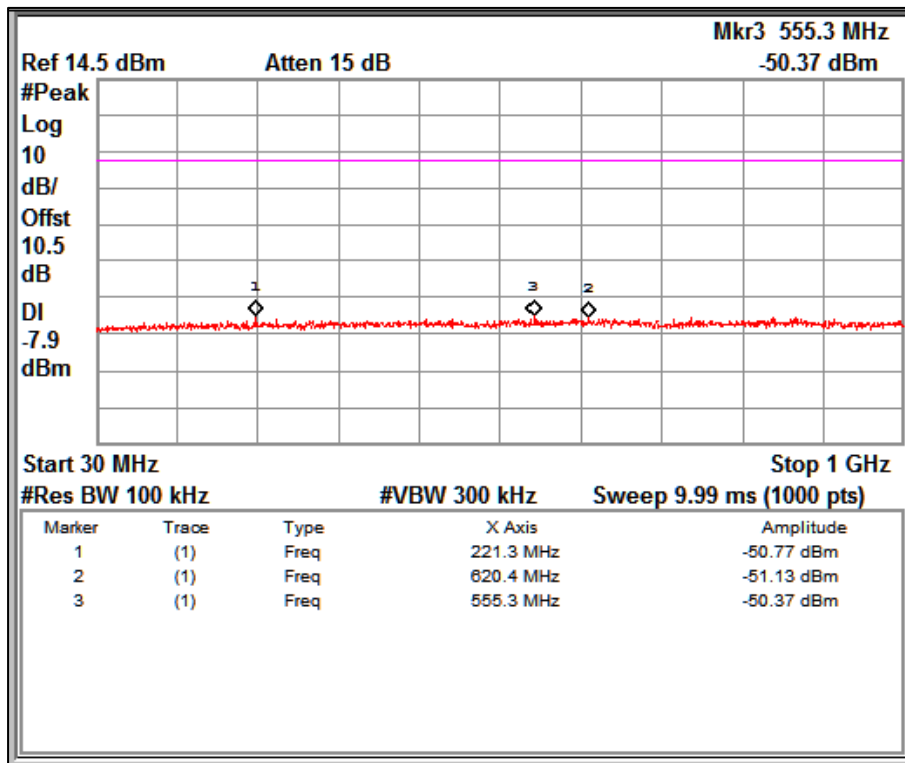


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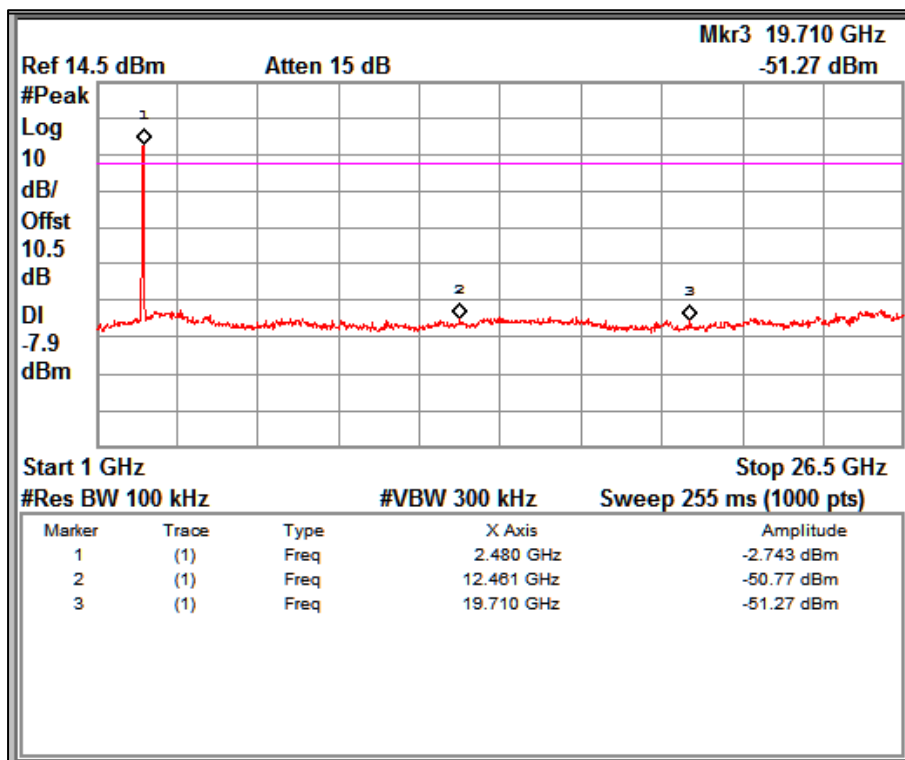
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Channel Frequency 2452MHz

Frequency Range 30MHz – 1GHz



Channel Frequency 2452MHz

Frequency Range 1GHz – 26.5GHz

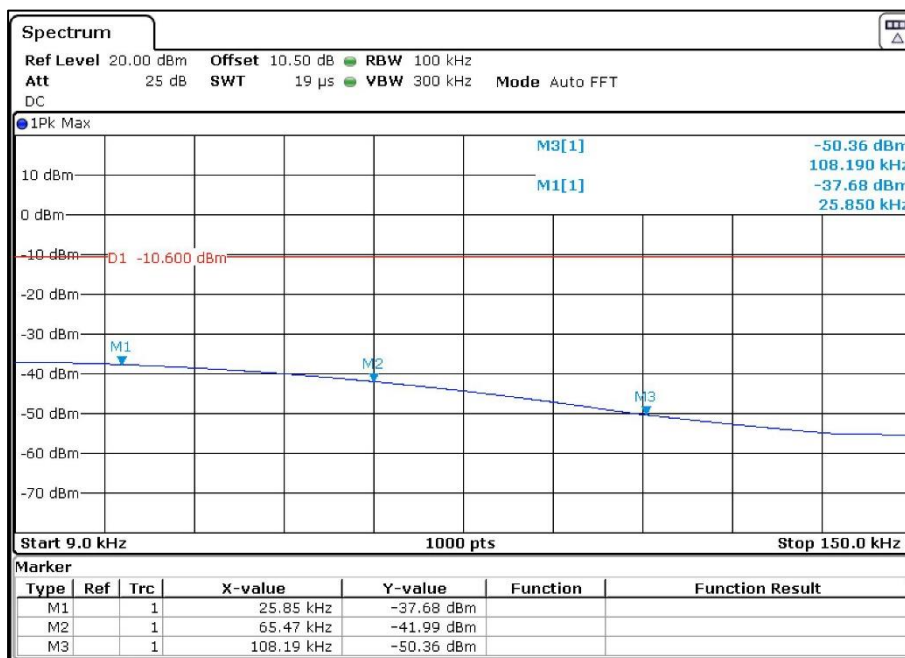
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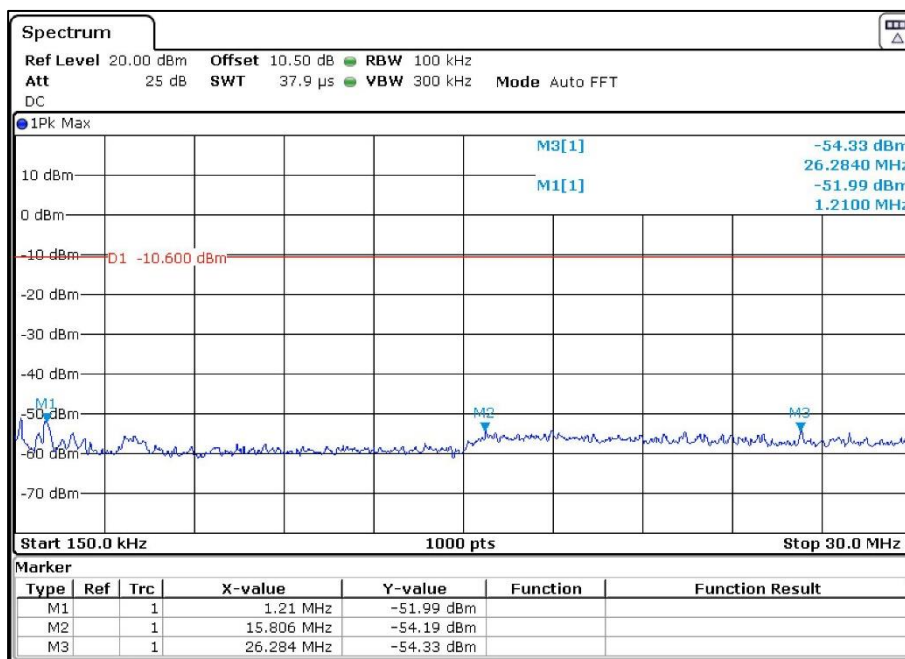
Modulation: 802.11n_40MHz

Data Rate MCS7



Channel Frequency 2422MHz

Frequency Range 9kHz – 150 kHz



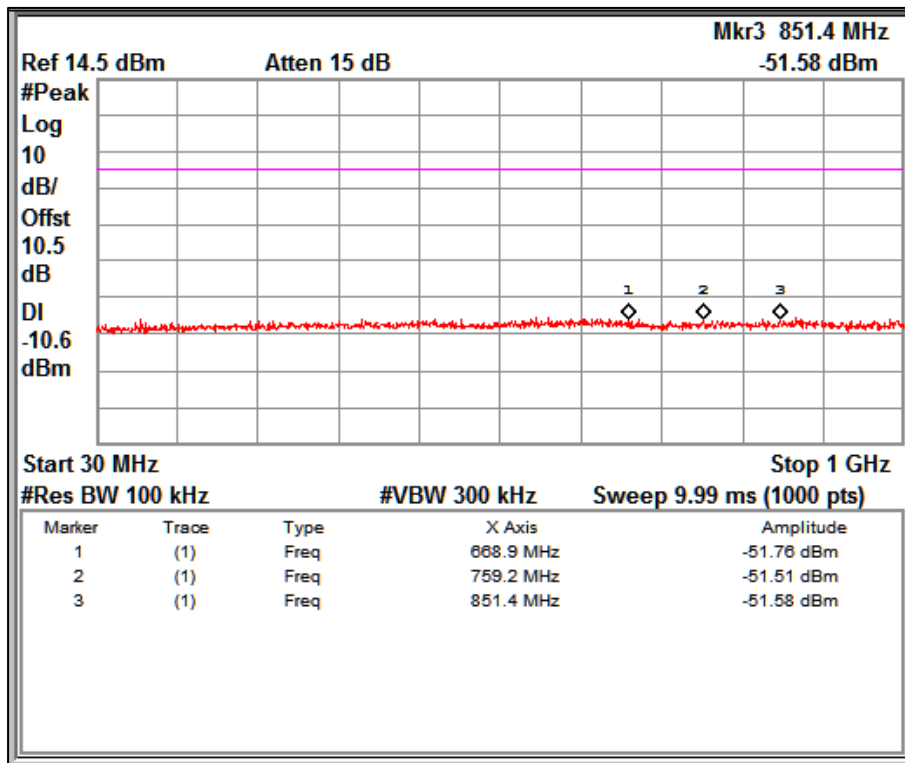
Channel Frequency 2422MHz

Frequency Range 150 kHz – 30 MHz

Prüfbericht - Nr.:
Test Report No.:

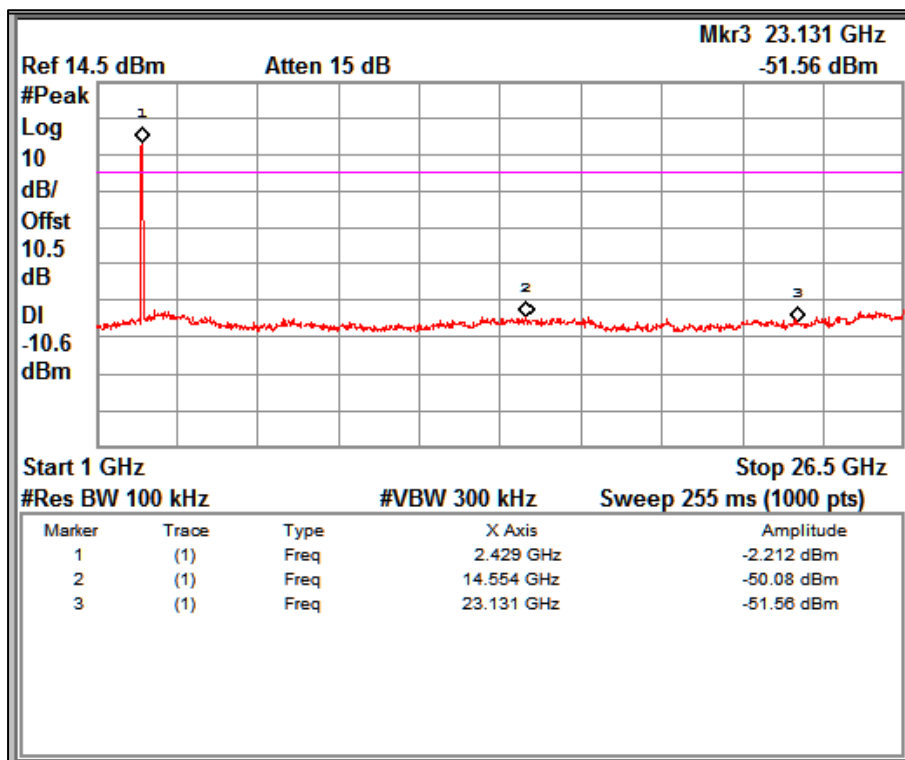
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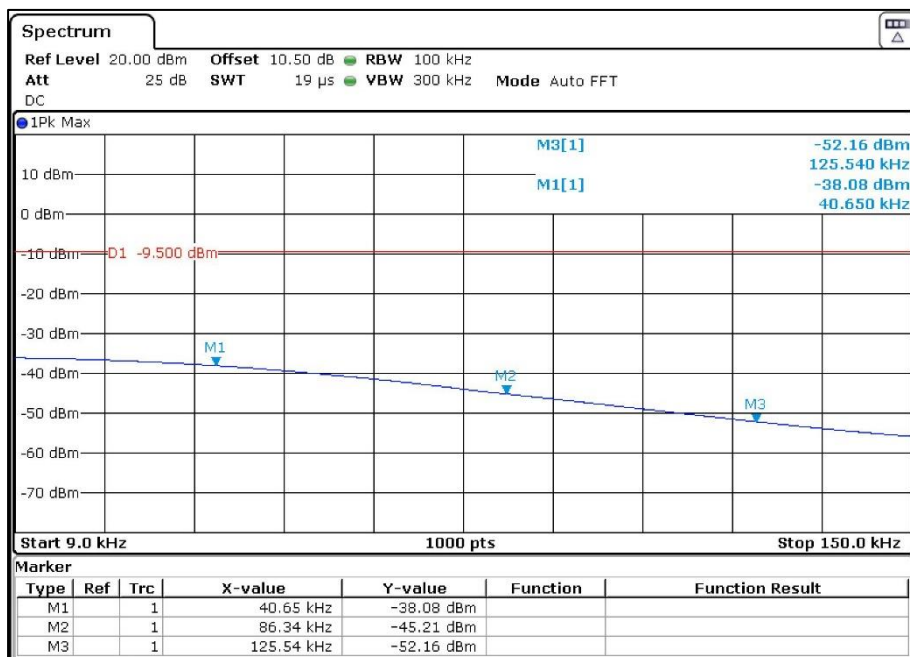
Channel Frequency 2422MHz

Frequency Range 30MHz – 1GHz



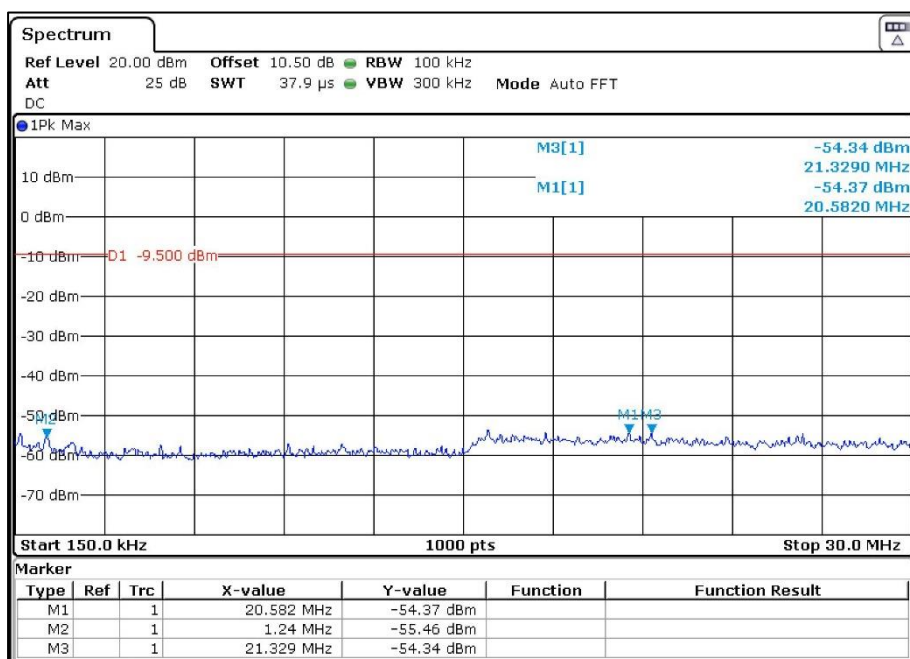
Channel Frequency 2422MHz

Frequency Range 1GHz – 26.5GHz



Channel Frequency 2437MHz

Frequency Range 9kHz – 150 kHz



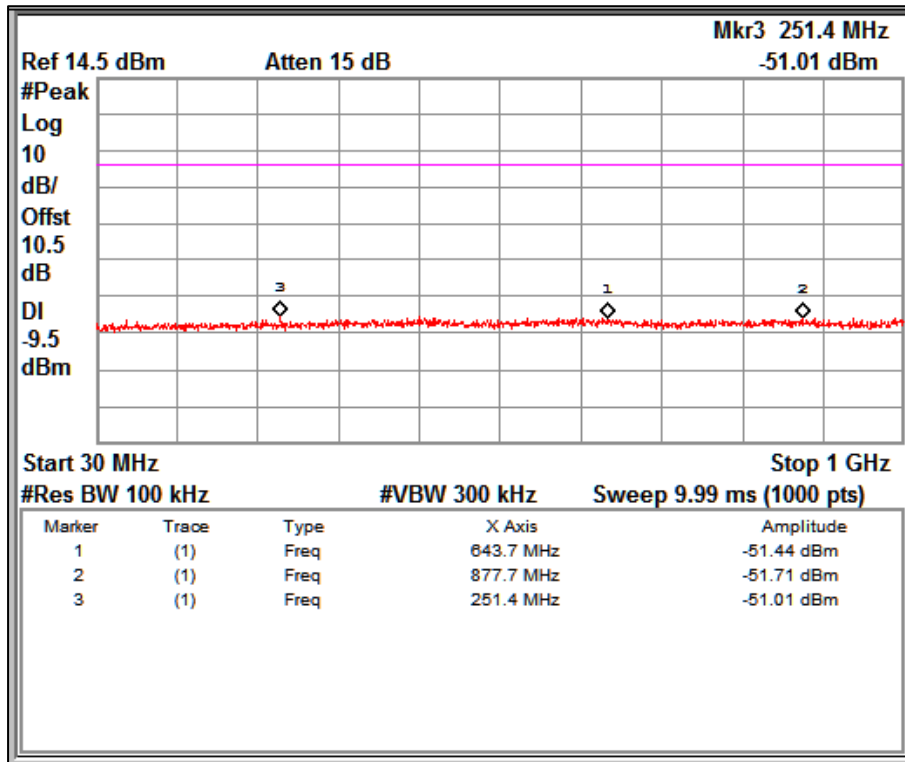
Channel Frequency 2437MHz

Frequency Range 150 kHz – 30 MHz

Prüfbericht - Nr.:
Test Report No.:

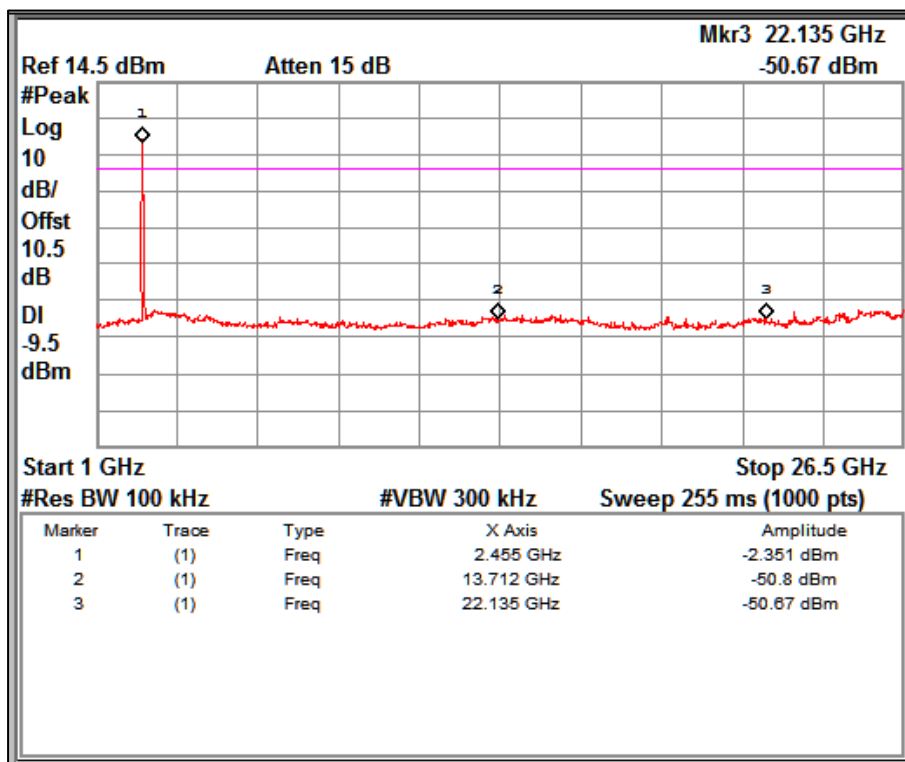
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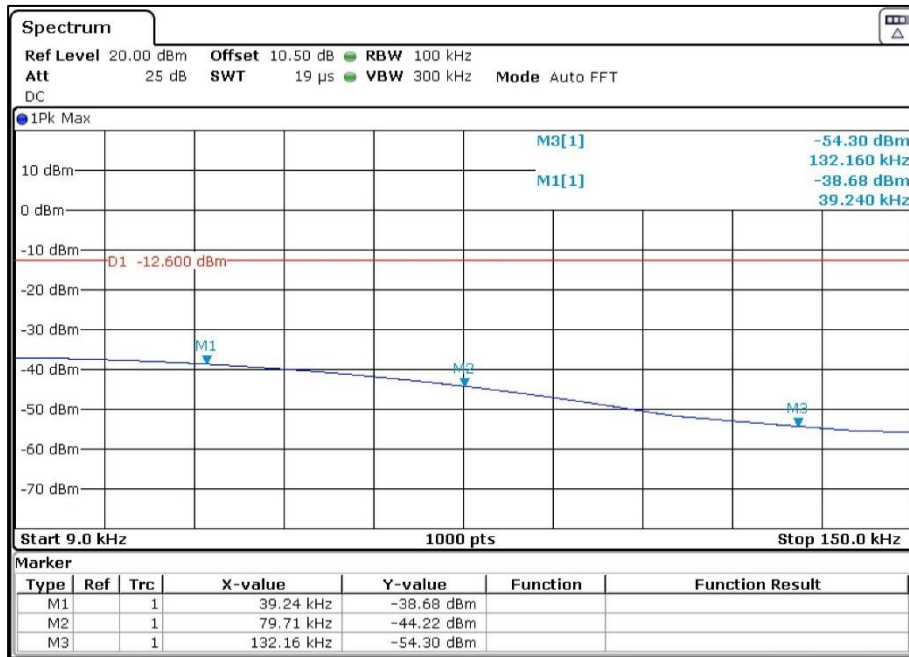
Channel Frequency 2437MHz

Frequency Range 30MHz – 1GHz



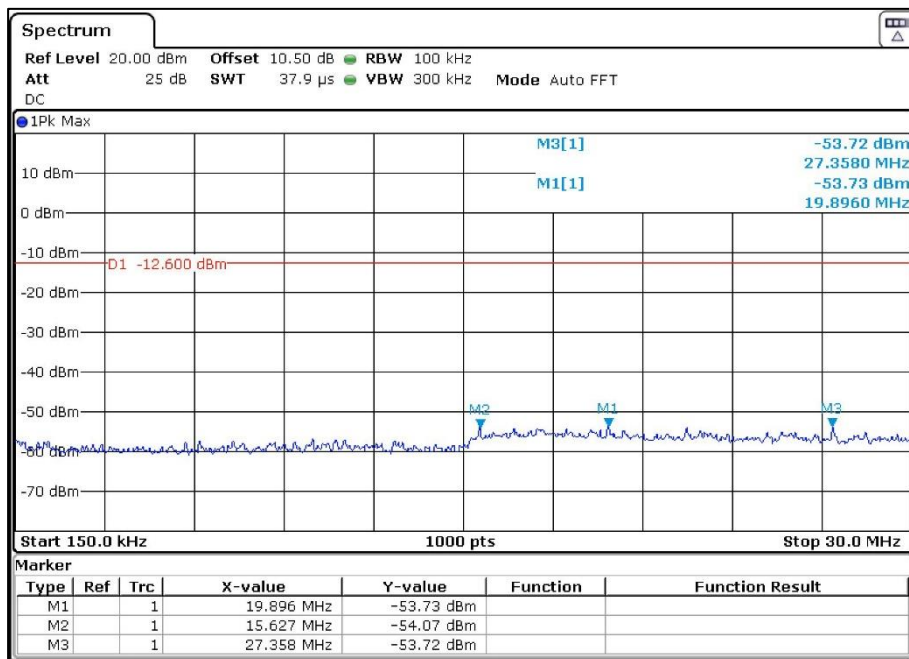
Channel Frequency 2437MHz

Frequency Range 1GHz – 26.5GHz



Channel Frequency 2452MHz

Frequency Range 9kHz – 150 kHz



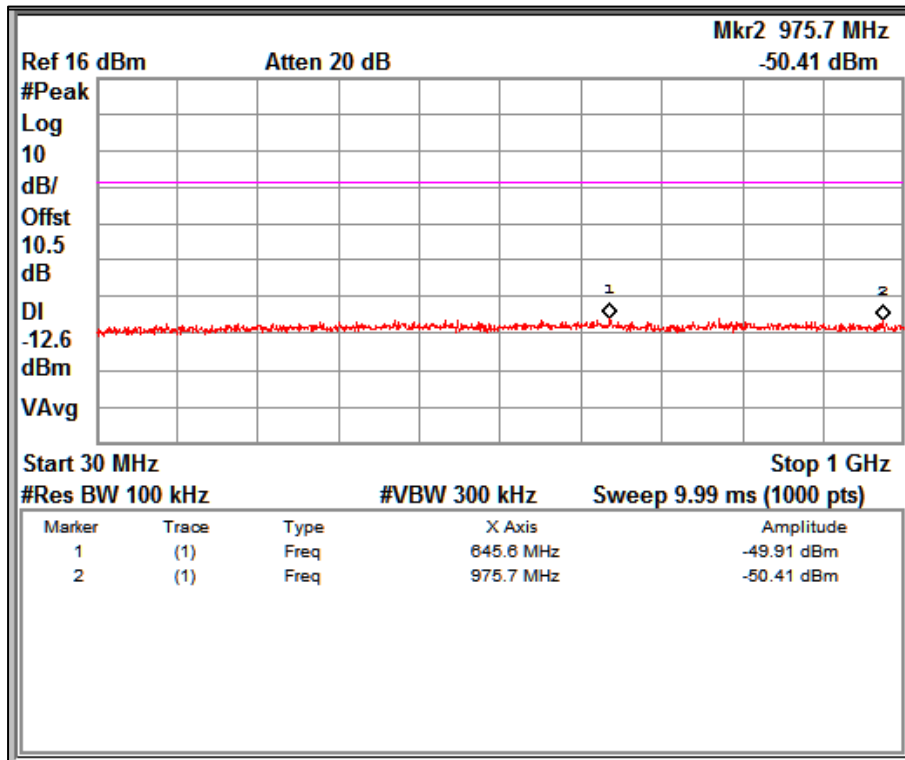
Channel Frequency 2452MHz

Frequency Range 150 kHz – 30 MHz

Prüfbericht - Nr.:
Test Report No.:

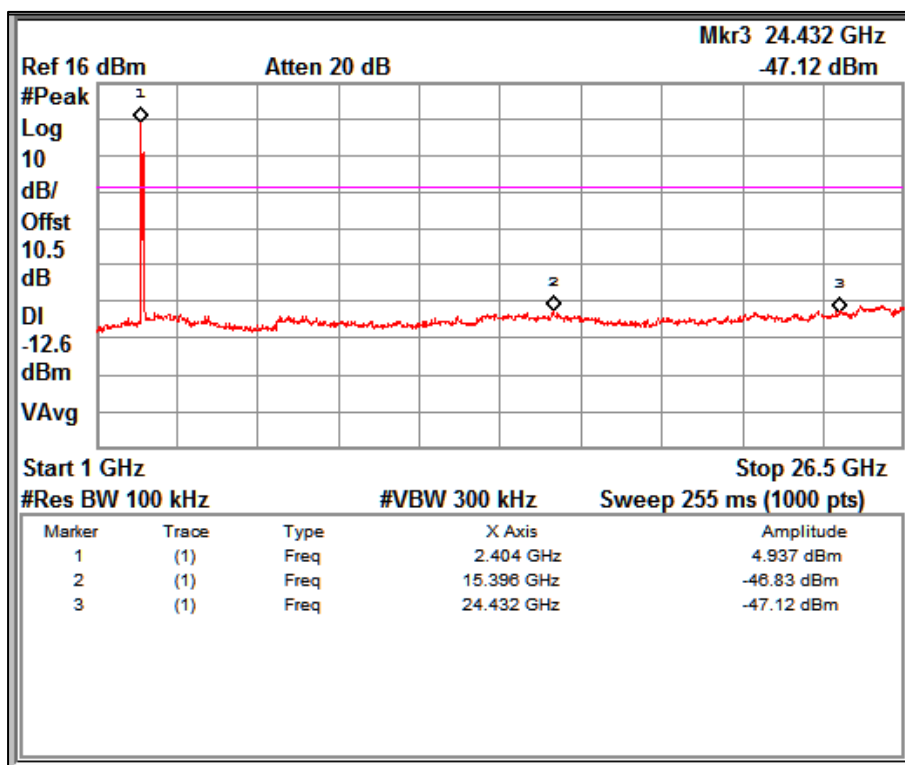
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Channel Frequency 2452MHz

Frequency Range 30MHz – 1GHz



Channel Frequency 2452MHz

Frequency Range 1GHz – 26.5GHz

8.5 Spurious Radiated Emissions & Restricted Bands of Operation

Result	Pass
Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205) / IC RSS-GEN, Section 8.9 and 8.10
Test Method	ANSI C63.10
Measurement Location	Semi Anechoic Chamber 30MHz - 1 GHz Fully Anechoic Chamber 1 GHz - 40GHz
Measurement Bandwidth	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector	Refer remarks below
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test setup	Refer Clause 7 TEST METHODOLOGY

Table 7: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Conditions:

Temperature (Norm) = + 25 °C

Voltage = 5.0V AC to DC Adaptor

Relative humidity = 62 %

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Test results:

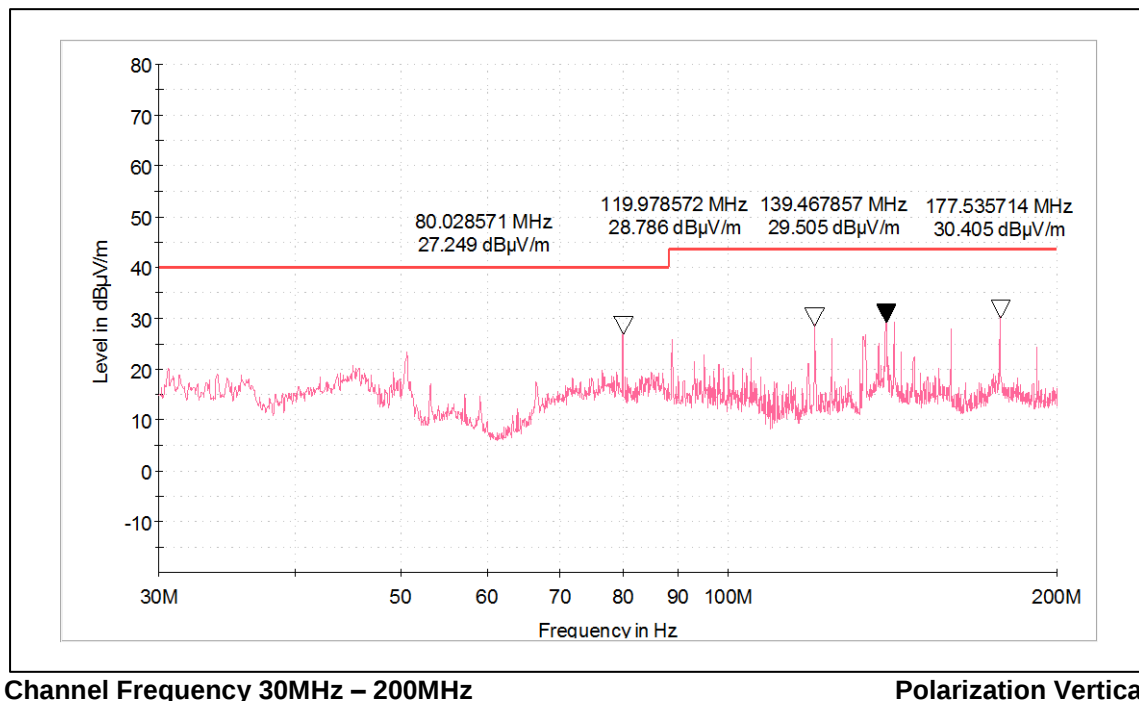
Note: All the losses are included during measurement and final values are mentioned in the test report. Refer Clause 7 TEST METHODOLOGY for more details

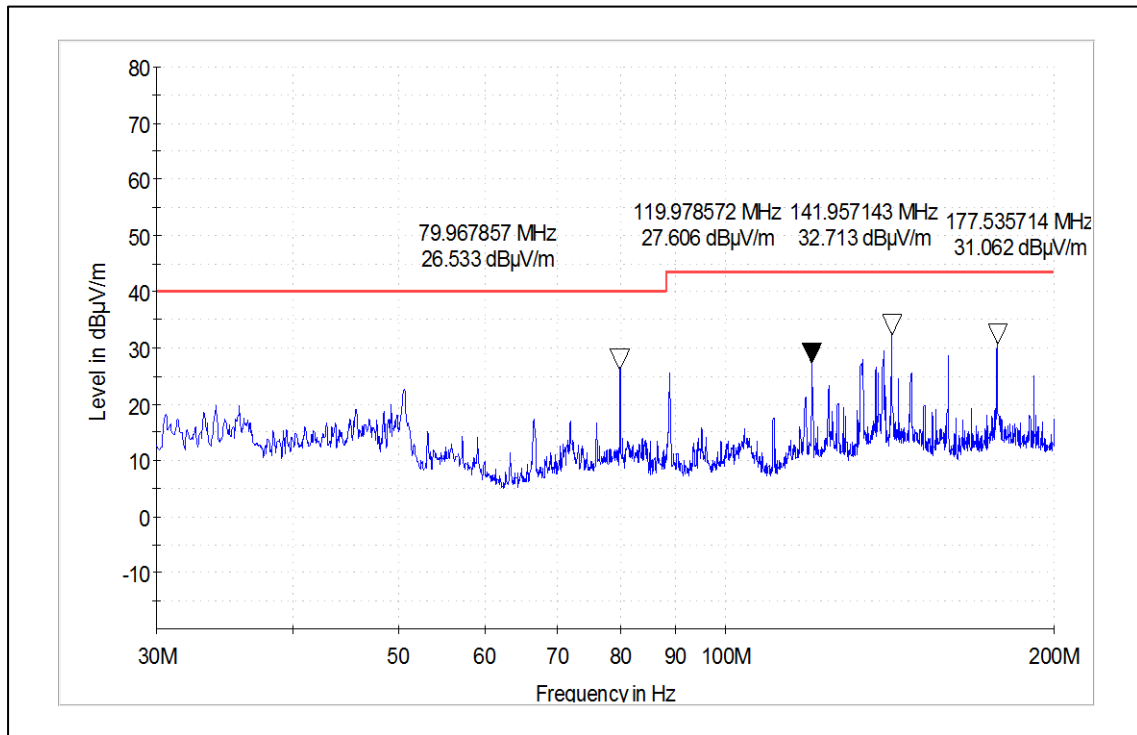
Test results for frequency range 9kHz – 30MHz

No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported

Test results for frequency range 30MHz – 1GHz

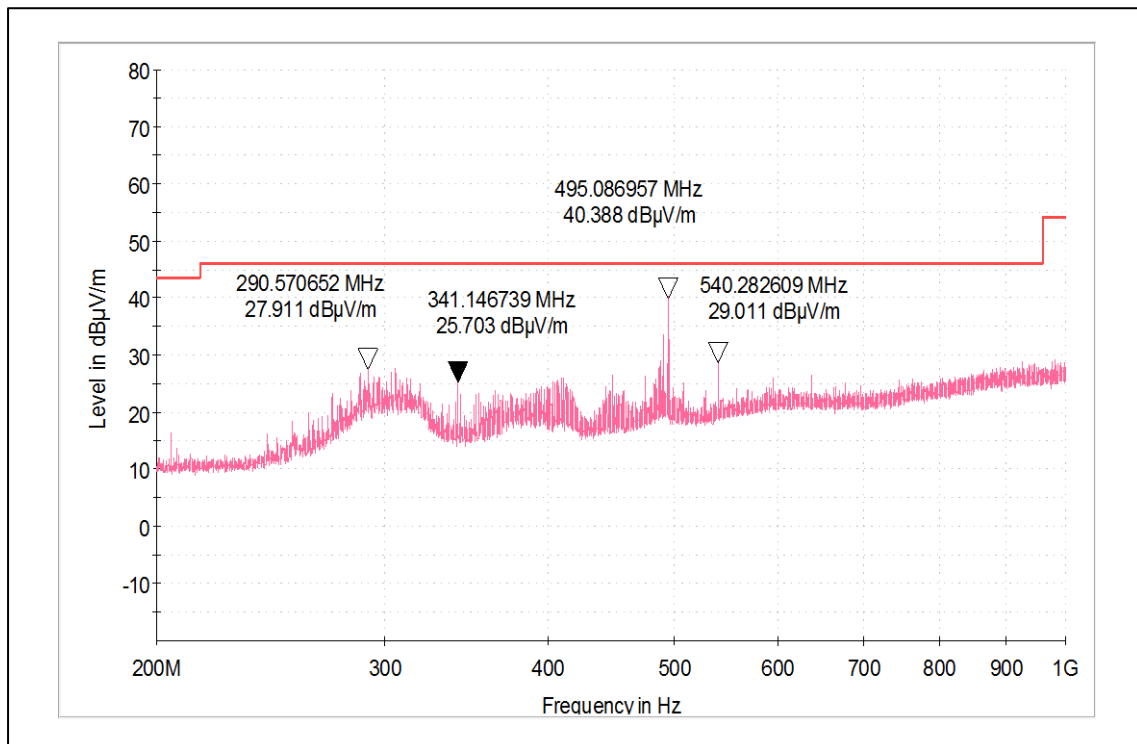
Antenna Polarization	Measured Frequency (MHz)	Measured value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	80.02	27.24	40.00	-12.76
	119.97	28.78	43.50	-14.72
	139.46	29.50	43.50	-14.00
	177.53	30.40	43.50	-13.10
	290.57	27.91	46.00	-18.09
	341.14	25.70	46.00	-20.30
	495.08	40.38	46.00	-5.62
	540.28	29.01	46.00	-16.99
Horizontal	79.96	26.53	40.00	-13.47
	119.97	27.60	43.50	-15.90
	141.95	32.71	43.50	-10.79
	177.53	31.06	43.50	-12.44
	316.69	31.90	46.00	-14.10
	356.75	31.95	46.00	-14.05
	396.02	34.00	46.00	-12.00
	490.42	30.22	46.00	-15.78





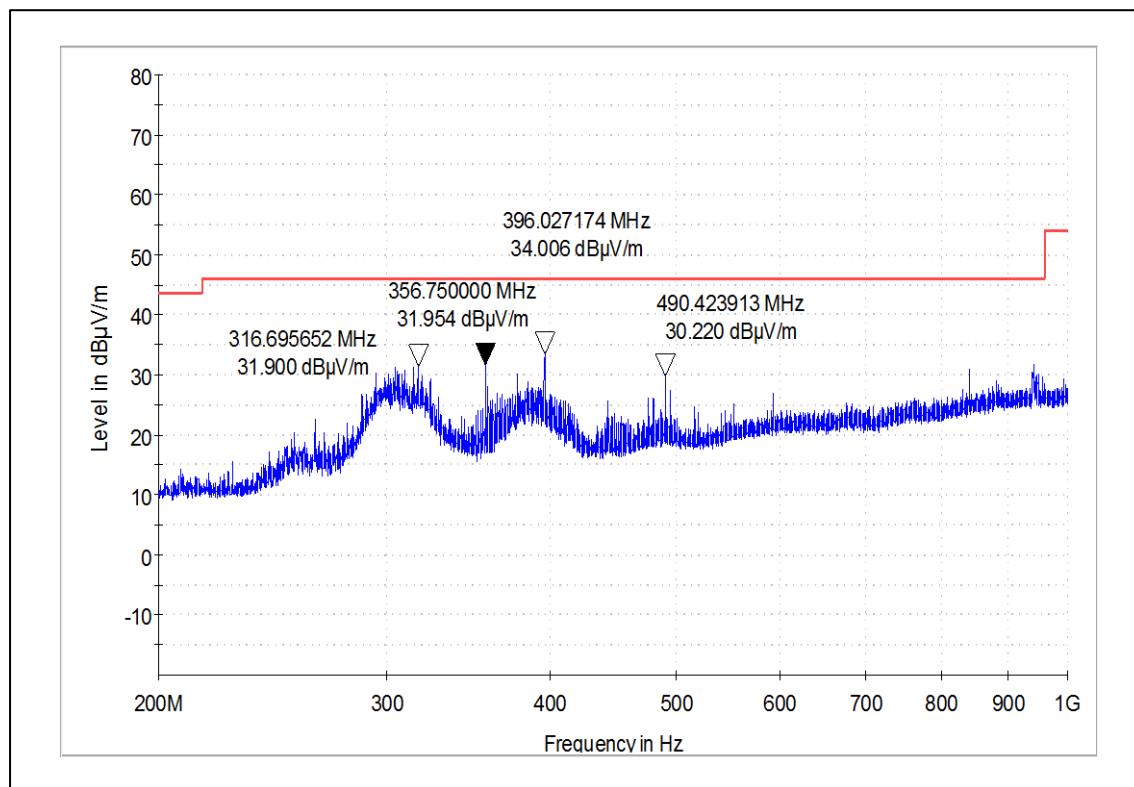
Channel Frequency 30MHz – 200MHz

Polarization Horizontal



Channel Frequency 200MHz – 1GHz

Polarization Vertical



Channel Frequency 200MHz – 1GHz

Polarization Horizontal

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Test results for the frequencies in the range 1 GHz to 26.5 GHz

Modulation: 802.11b

Data Rate: 1Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	104.92	-	-
		2412(Av)	102.37	-	-
		2390(Pk)	49.37	74*	-24.63
		2390(Av)	37.31	54*	-16.69
		4824(Pk)	42.76	74	-31.24
		4824(Av)	32.63	54	-21.37
		7236(Pk)	46.82	74	-27.18
		7236(Av)	34.77	54	-19.23
	Horizontal	2412(Pk)	97.02	-	-
		2412(Av)	94.60	-	-
		2390(Pk)	40.89	74*	-33.11
		2390(Av)	28.54	54*	-25.46
		4824(Pk)	41.59	74	-32.41
		4824(Av)	29.50	54	-24.50
		7236(Pk)	47.36	74	-26.64
		7236(Av)	34.49	54	-19.51
2437	Vertical	2437(Pk)	109.10	-	-
		2437(Av)	106.36	-	-
		4874(Pk)	44.77	74	-29.23
		4874(Av)	37.60	54	-16.40
		7311(Pk)	46.65	74	-27.35
		7311(Av)	35.25	54	-18.75
	Horizontal	2437(Pk)	102.96	-	-
		2437(Av)	100.64	-	-
		4874(Pk)	42.02	74	-31.98
		4874(Av)	31.06	54	-22.94
		7311(Pk)	47.97	74	-26.03
		7311(Av)	34.65	54	-19.35
2462	Vertical	2483.5(Pk)	55.47	74*	-18.53
		2483.5(Av)	44.24	54*	-9.76
		2462(Pk)	107.79	-	-
		2462(Av)	105.34	-	-
		4924(Pk)	43.16	74	-30.84
		4924(Av)	33.57	54	-20.43
		7386(Pk)	46.78	74	-27.22
		7386(Av)	34.77	54	-19.23
	Horizontal	2483.5(Pk)	48.46	74*	-18.53
		2483.5(Av)	37.84	54*	-9.76
		2462(Pk)	100.75	-	-
		2462(Av)	98.28	-	-
		4924(Pk)	42.90	74	-31.10
		4924(Av)	30.27	54	-23.73
		7386(Pk)	47.30	74	-26.70
		7386(Av)	34.49	54	-19.51

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11b
Data Rate: 11Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	109.32	-	-
		2412(Av)	100.82	-	-
		2390(Pk)	48.66	74*	-25.34
		2390(Av)	36.03	54*	-17.97
		4824(Pk)	41.94	74	-32.06
		4824(Av)	29.86	54	-24.14
		7236(Pk)	46.13	74	-27.87
		7236(Av)	34.42	54	-19.58
	Horizontal	2412(Pk)	101.61	-	-
		2412(Av)	92.91	-	-
		2390(Pk)	40.80	74*	-33.20
		2390(Av)	27.76	54*	-26.24
		4824(Pk)	40.78	74	-33.22
		4824(Av)	28.74	54	-25.26
		7236(Pk)	47.23	74	-26.77
		7236(Av)	34.48	54	-19.52
2437	Vertical	2437(Pk)	114.18	-	-
		2437(Av)	105.49	-	-
		4874(Pk)	44.43	74	-29.57
		4874(Av)	32.26	54	-21.74
		7311(Pk)	47.43	74	-26.57
		7311(Av)	34.86	54	-19.14
	Horizontal	2437(Pk)	107.84	-	-
		2437(Av)	99.16	-	-
		4874(Pk)	41.47	74	-32.53
		4874(Av)	29.57	54	-24.43
		7311(Pk)	46.68	74	-27.32
2462	Vertical	7311(Av)	34.66	54	-19.34
		2483.5(Pk)	55.86	74*	-18.14
		2483.5(Av)	42.64	54*	-11.36
		2462(Pk)	112.51	-	-
		2462(Av)	104.07	-	-
		4924(Pk)	43.22	74	-30.78
		4924(Av)	31.29	54	-22.71
		7386(Pk)	46.59	74	-27.41
		7386(Av)	34.72	54	-19.28
	Horizontal	2483.5(Pk)	49.40	74*	-24.60
		2483.5(Av)	36.86	54*	-17.14
		2462(Pk)	106.18	-	-
		2462(Av)	97.71	-	-
		4924(Pk)	40.34	74	-33.66
		4924(Av)	28.88	54	-25.12
		7386(Pk)	46.78	74	-27.22
		7386(Av)	34.53	54	-19.47

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11g
Data Rate: 6Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2412	Vertical	2412(Pk)	104.42	-	-
		2412(Av)	94.71	-	-
		2390(Pk)	49.56	74*	-24.44
		2390(Av)	35.27	54*	-18.73
		4824(Pk)	41.47	74	-32.53
		4824(Av)	28.63	54	-25.37
		7236(Pk)	46.78	74	-27.22
		7236(Av)	34.42	54	-19.58
	Horizontal	2412(Pk)	95.79	-	-
		2412(Av)	86.11	-	-
		2390(Pk)	38.92	74*	-35.08
		2390(Av)	26.46	54*	-27.54
		4824(Pk)	40.35	74	-33.65
		4824(Av)	28.53	54	-25.47
		7236(Pk)	46.82	74	-27.18
		7236(Av)	34.43	54	-19.57
2437	Vertical	2437(Pk)	110.50	-	-
		2437(Av)	100.37	-	-
		4874(Pk)	41.11	74	-32.89
		4874(Av)	29.13	54	-24.87
		7311(Pk)	47.65	74	-26.35
		7311(Av)	34.77	54	-19.23
	Horizontal	2437(Pk)	103.11	-	-
		2437(Av)	93.48	-	-
		4874(Pk)	42.06	74	-31.94
		4874(Av)	28.77	54	-25.23
		7311(Pk)	47.18	74	-26.82
		7311(Av)	34.71	54	-19.29
2462	Vertical	2483.5(Pk)	55.07	74*	-18.93
		2483.5(Av)	42.07	54*	-11.93
		2462(Pk)	105.31	-	-
		2462(Av)	95.49	-	-
		4924(Pk)	41.09	74	-32.91
		4924(Av)	28.69	54	-25.31
		7386(Pk)	47.21	74	-26.79
		7386(Av)	34.63	54	-19.37
	Horizontal	2483.5(Pk)	48.34	74*	-25.66
		2483.5(Av)	35.55	54*	-18.45
		2462(Pk)	99.11	-	-
		2462(Av)	89.48	-	-
		4924(Pk)	40.26	74	-33.74
		4924(Av)	28.58	54	-25.42
		7386(Pk)	46.36	74	-27.64
		7386(Av)	34.60	54	-19.40

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11g
Data Rate: 54Mbps

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	105.31	*	-
		2412(Av)	92.07	*	-
		2390(Pk)	64.01	74	-9.99
		2390(Av)	37.24	54	-16.76
		4824(Pk)	41.16	74	-32.84
		4824(Av)	28.66	54	-25.34
		7236(Pk)	46.40	74	-27.60
		7236(Av)	34.51	54	-19.49
	Horizontal	2412(Pk)	97.07	*	-
		2412(Av)	84.01	*	-
		2390(Pk)	53.49	74	-20.51
		2390(Av)	28.51	54	-25.49
		4824(Pk)	40.77	74	-33.23
		4824(Av)	28.55	54	-25.45
		7236(Pk)	46.40	74	-27.60
		7236(Av)	34.50	54	-19.50
2437	Vertical	2437(Pk)	111.41	*	-
		2437(Av)	97.47	*	-
		4874(Pk)	41.08	74	-32.92
		4874(Av)	29.13	54	-24.87
		7311(Pk)	46.96	74	-27.04
		7311(Av)	34.86	54	-19.14
	Horizontal	2437(Pk)	103.49	*	-
		2437(Av)	89.77	*	-
		4874(Pk)	40.84	74	-33.16
		4874(Av)	28.08	54	-25.92
		7311(Pk)	47.23	74	-26.77
		7311(Av)	34.75	54	-19.25
2462	Vertical	2483.5(Pk)	71.24	74	-2.76
		2483.5(Av)	45.31	54	-8.69
		2462(Pk)	106.69	*	-
		2462(Av)	92.03	*	-
		4924(Pk)	40.50	74	-33.50
		4924(Av)	28.67	54	-25.33
		7386(Pk)	46.67	74	-27.33
		7386(Av)	34.65	54	-19.35
	Horizontal	2483.5(Pk)	65.50	74	-8.50
		2483.5(Av)	38.83	54	-15.17
		2462(Pk)	100.12	*	-
		2462(Av)	85.53	*	-
		4924(Pk)	40.70	74	-33.30
		4924(Av)	28.60	54	-25.40
		7386(Pk)	46.32	74	-27.68
		7386(Av)	34.64	54	-19.36

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT20
Data Rate: MCS0

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2412	Vertical	2412(Pk)	105.56	*	-
		2412(Av)	95.58	*	-
		2390(Pk)	54.17	74	-19.83
		2390(Av)	39.38	54	-14.62
		4824(Pk)	41.04	74	-32.96
		4824(Av)	28.68	54	-25.32
		7236(Pk)	46.14	74	-27.86
		7236(Av)	34.49	54	-19.51
	Horizontal	2412(Pk)	97.50	*	-
		2412(Av)	87.62	*	-
		2390(Pk)	41.43	74	-32.57
		2390(Av)	29.20	54	-24.80
		4824(Pk)	40.85	74	-33.15
		4824(Av)	28.58	54	-25.42
		7236(Pk)	46.77	74	-27.23
		7236(Av)	34.52	54	-19.48
2437	Vertical	2437(Pk)	108.76	*	-
		2437(Av)	97.96	*	-
		4874(Pk)	40.83	74	-33.17
		4874(Av)	29.05	54	-24.95
		7311(Pk)	47.90	74	-26.10
		7311(Av)	34.82	54	-19.18
	Horizontal	2437(Pk)	100.22	*	-
		2437(Av)	90.40	*	-
		4874(Pk)	40.97	74	-33.03
		4874(Av)	28.82	54	-25.18
		7311(Pk)	47.69	74	-26.31
		7311(Av)	34.81	54	-19.19
2462	Vertical	2483.5(Pk)	61.45	74	-12.55
		2483.5(Av)	45.84	54	-8.16
		2462(Pk)	106.79	*	-
		2462(Av)	97.02	*	-
		4924(Pk)	40.21	74	-33.79
		4924(Av)	28.80	54	-25.20
		7386(Pk)	46.45	74	-27.55
		7386(Av)	34.65	54	-19.35
	Horizontal	2483.5(Pk)	52.91	74	-21.09
		2483.5(Av)	38.53	54	-15.47
		2462(Pk)	99.81	*	-
		2462(Av)	90.29	*	-
		4924(Pk)	41.17	74	-32.83
		4924(Av)	28.61	54	-25.39
		7386(Pk)	47.00	74	-27.00
		7386(Av)	34.62	54	-19.38

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT20

Data Rate: MCS7

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2412	Vertical	2412(Pk)	107.96	*	-
		2412(Av)	93.44	*	-
		2390(Pk)	67.09	74	-6.91
		2390(Av)	44.89	54	-9.11
		4824(Pk)	41.11	74	-32.89
		4824(Av)	28.63	54	-25.37
		7236(Pk)	46.79	74	-27.21
		7236(Av)	34.53	54	-19.47
	Horizontal	2412(Pk)	97.63	*	-
		2412(Av)	83.09	*	-
		2390(Pk)	42.79	74	-31.21
		2390(Av)	27.48	54	-26.52
		4824(Pk)	40.86	74	-33.14
		4824(Av)	28.56	54	-25.44
		7236(Pk)	47.20	74	-26.80
		7236(Av)	34.52	54	-19.48
2437	Vertical	2437(Pk)	109.83	*	-
		2437(Av)	96.00	*	-
		4874(Pk)	41.07	74	-32.93
		4874(Av)	29.04	54	-24.96
		7311(Pk)	47.12	74	-26.88
		7311(Av)	34.87	54	-19.13
	Horizontal	2437(Pk)	101.85	*	-
		2437(Av)	87.46	*	-
		4874(Pk)	40.60	74	-33.40
		4874(Av)	28.82	54	-25.18
		7311(Pk)	47.07	74	-26.93
		7311(Av)	34.78	54	-19.22
2462	Vertical	2483.5(Pk)	69.79	74	-4.21
		2483.5(Av)	46.44	54	-7.56
		2462(Pk)	106.26	*	-
		2462(Av)	91.60	*	-
		4924(Pk)	43.42	74	-30.58
		4924(Av)	28.80	54	-25.20
		7386(Pk)	47.60	74	-26.40
		7386(Av)	34.69	54	-19.31
	Horizontal	2483.5(Pk)	61.59	74	-12.41
		2483.5(Av)	39.05	54	-14.95
		2462(Pk)	98.59	*	-
		2462(Av)	84.12	*	-
		4924(Pk)	40.92	74	-33.08
		4924(Av)	28.69	54	-25.31
		7386(Pk)	47.26	74	-26.74
		7386(Av)	34.71	54	-19.29

*- : Indicate restricted band of operation §15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT40
Data Rate: MCS0

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2422	Vertical	2422(Pk)	104.06	*	-
		2422(Av)	93.49	*	-
		2390(Pk)	61.57	74	-12.43
		2390(Av)	47.46	54	-6.54
		4844(Pk)	41.72	74	-32.28
		4844(Av)	28.81	54	-25.19
		7266(Pk)	48.09	74	-25.91
		7266(Av)	34.90	54	-19.10
	Horizontal	2422(Pk)	95.13	*	-
		2422(Av)	84.63	*	-
		2390(Pk)	46.85	74	-27.15
		2390(Av)	29.98	54	-24.02
		4844(Pk)	41.20	74	-32.80
		4844(Av)	28.58	54	-25.42
		7266(Pk)	46.35	74	-27.65
		7266(Av)	34.86	54	-19.14
2437	Vertical	2437(Pk)	105.92	*	-
		2437(Av)	95.17	*	-
		4874(Pk)	41.00	74	-33.00
		4874(Av)	29.07	54	-24.93
		7311(Pk)	46.82	74	-27.18
		7311(Av)	34.83	54	-19.17
	Horizontal	2437(Pk)	97.06	*	-
		2437(Av)	87.14	*	-
		4874(Pk)	41.44	74	-32.56
		4874(Av)	28.81	54	-25.19
		7311(Pk)	47.80	74	-26.20
		7311(Av)	34.86	54	-19.14
2452	Vertical	2483.5(Pk)	69.15	74	-4.85
		2483.5(Av)	53.09	54	-0.91
		2452(Pk)	105.03	*	-
		2452(Av)	94.39	*	-
		4904(Pk)	40.75	74	-33.25
		4904(Av)	28.76	54	-25.24
		7356(Pk)	46.34	74	-27.66
		7356(Av)	34.73	54	-19.27
	Horizontal	2483.5(Pk)	59.49	74	-14.51
		2483.5(Av)	43.26	54	-10.74
		2452(Pk)	97.51	*	-
		2452(Av)	86.71	*	-
		4904(Pk)	41.40	74	-32.60
		4904(Av)	28.63	54	-25.37
		7356(Pk)	47.16	74	-26.84
		7356(Av)	34.70	54	-19.30

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT40
Data Rate: MCS7

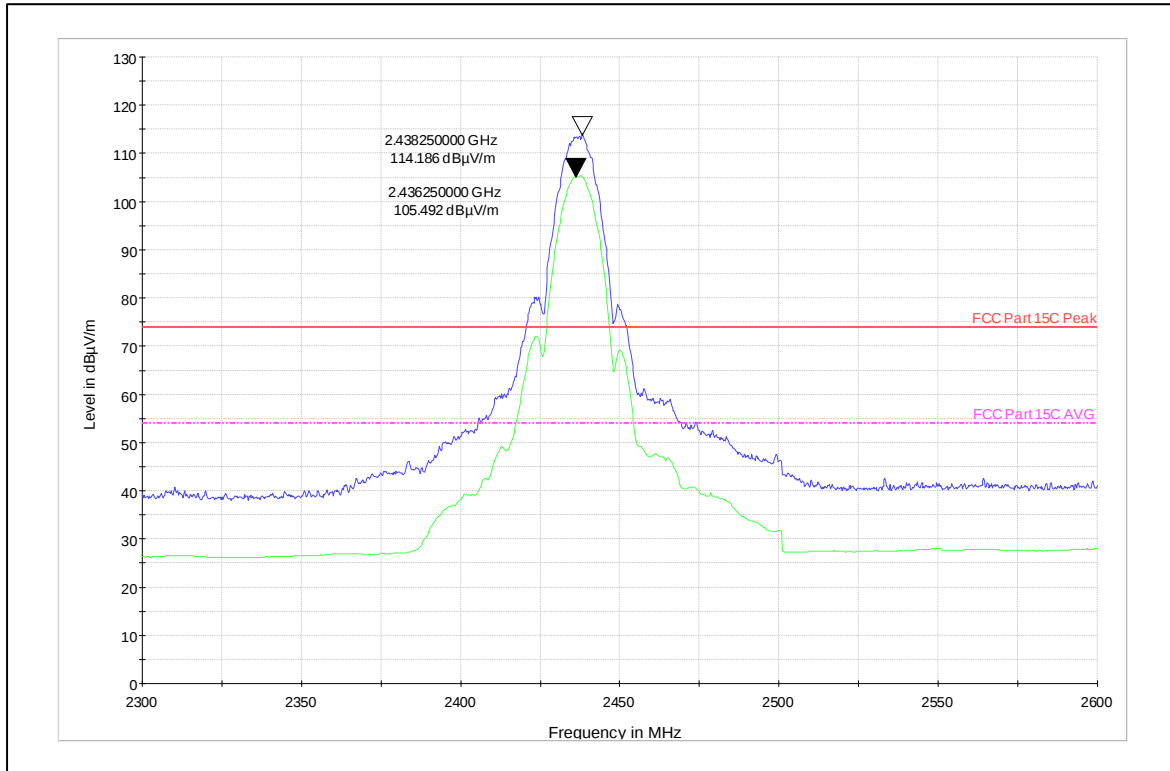
Channel Frequency (MHz)	Frequency (MHz)	Polarization	Emission (dBμV/m)	Limit (dBm)	Margin (dB)
2422	2422(Pk)	Vertical	104.36	*	-
	2422(Av)		88.05	*	-
	2390(Pk)		71.55	74	-2.45
	2390(Av)		50.57	54	-3.43
	4844(Pk)		41.02	74	-32.98
	4844(Av)		28.62	54	-25.38
	7266(Pk)		47.06	74	-26.94
	7266(Av)		34.79	54	-19.21
	2422(Pk)	Horizontal	94.56	*	-
	2422(Av)		78.26	*	-
	2390(Pk)		52.20	74	-21.80
	2390(Av)		32.63	54	-21.37
	4844(Pk)		40.47	74	-33.53
	4844(Av)		28.54	54	-25.46
	7266(Pk)		46.79	74	-27.21
	7266(Av)		34.82	54	-19.18
2437	2437(Pk)	Vertical	105.38	*	-
	2437(Av)		89.90	*	-
	4874(Pk)		41.66	74	-32.34
	4874(Av)		28.85	54	-25.15
	7311(Pk)		47.46	74	-26.54
	7311(Av)		34.79	54	-19.21
	2437(Pk)	Horizontal	95.96	*	-
	2437(Av)		80.11	*	-
	4874(Pk)		40.78	74	-33.22
	4874(Av)		28.77	54	-25.23
	7311(Pk)		47.67	74	-26.33
	7311(Av)		34.81	54	-19.19
2452	2483.5(Pk)	Vertical	103.17	74	29.17
	2483.5(Av)		88.01	54	34.01
	2452(Pk)		73.31	*	-
	2452(Av)		46.45	*	-
	4904(Pk)		40.74	74	-33.26
	4904(Av)		28.79	54	-25.21
	7356(Pk)		46.58	74	-27.42
	7356(Av)		34.76	54	-19.24
	2483.5(Pk)	Horizontal	65.26	74	-8.74
	2483.5(Av)		38.13	54	-15.87
	2452(Pk)		95.69	*	-
	2452(Av)		80.14	*	-
	4904(Pk)		41.38	74	-32.62
	4904(Av)		28.64	54	-25.36
	7356(Pk)		46.85	74	-27.15
	7356(Av)		34.76	54	-19.24

*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

Worst case Plots

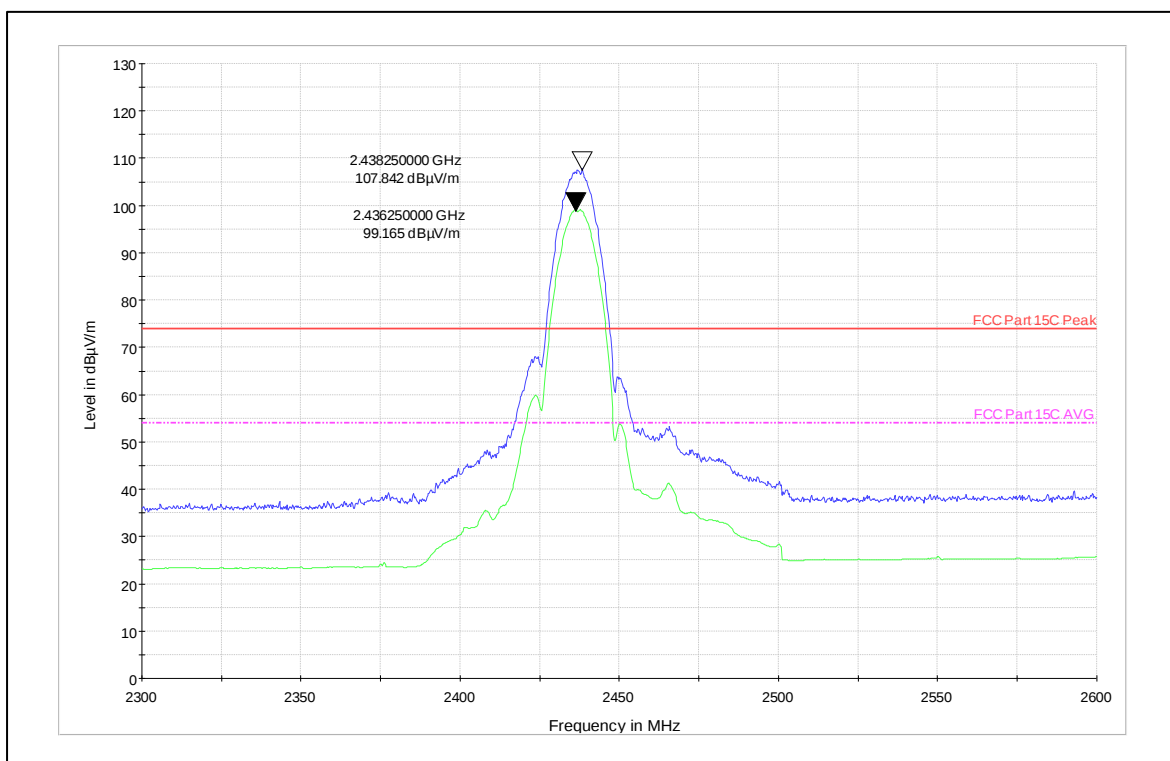
Data Rate: 11Mbps

Channel Frequency 2437MHz



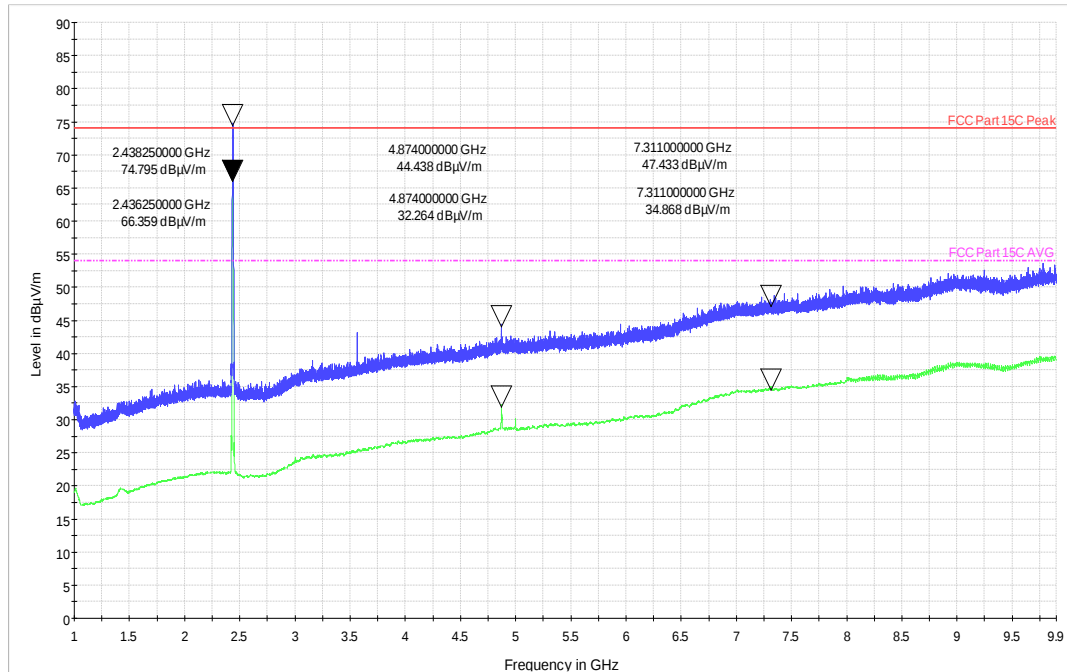
Channel Frequency: 2437MHz

Polarization: Vertical



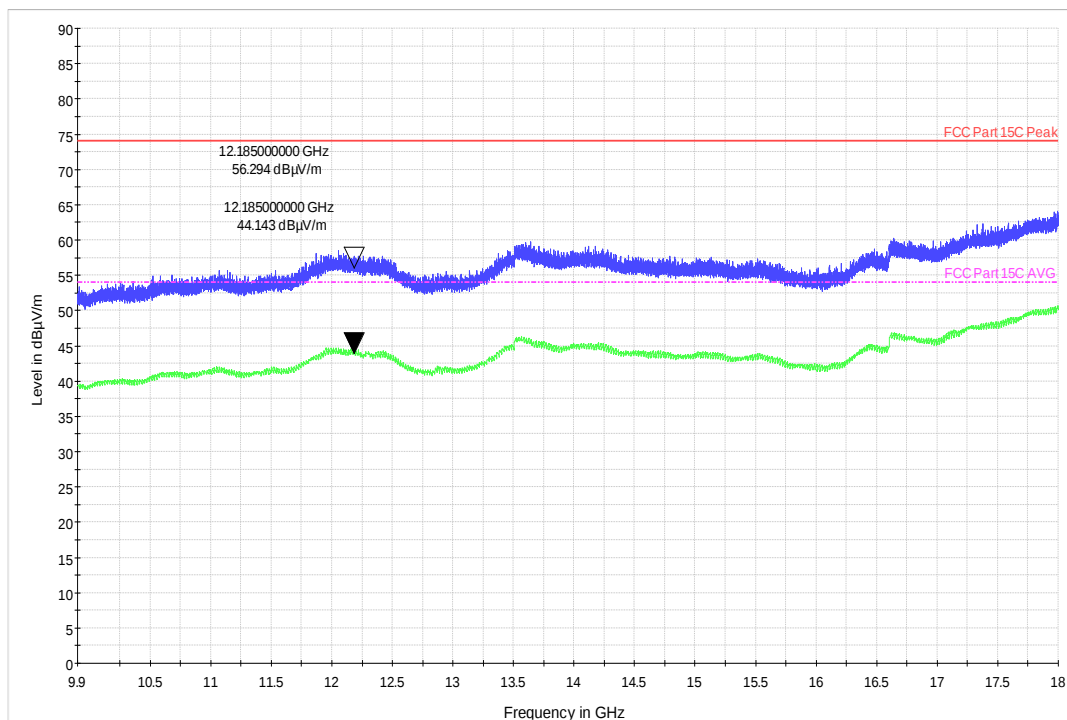
Channel Frequency: 2437MHz

Polarization: Horizontal



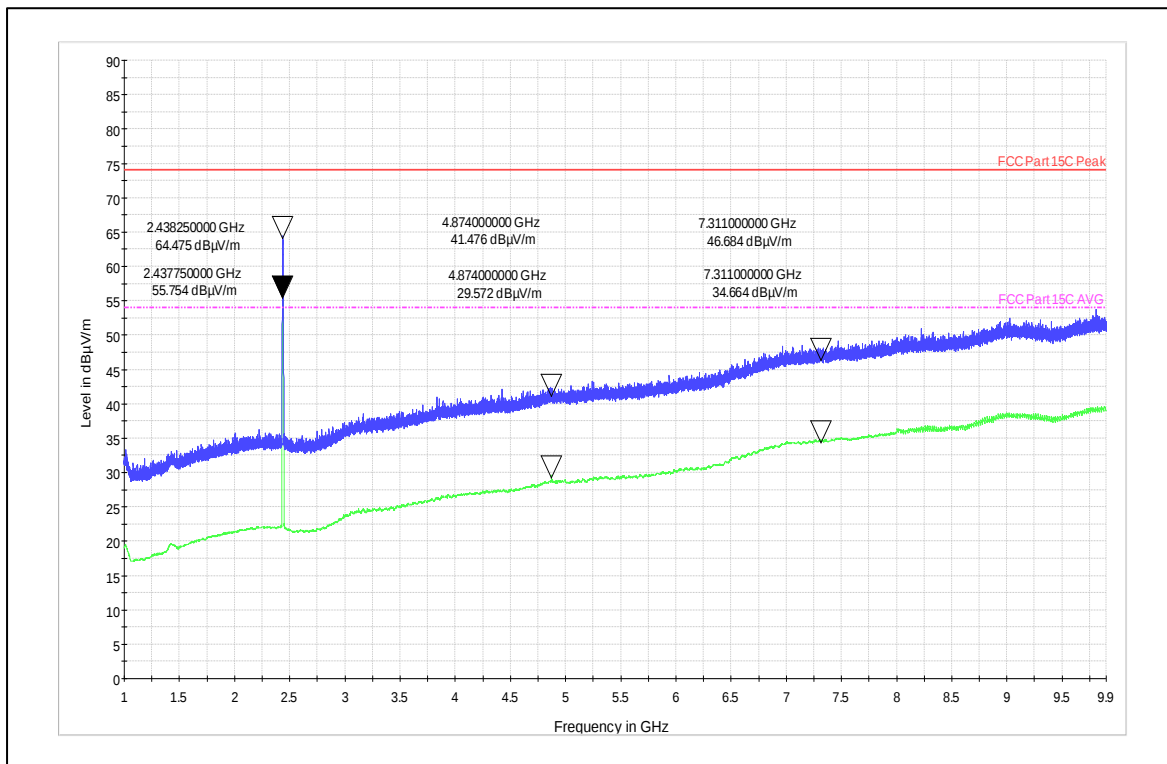
Channel Frequency: 1 – 9.9 GHz

Polarization: Vertical



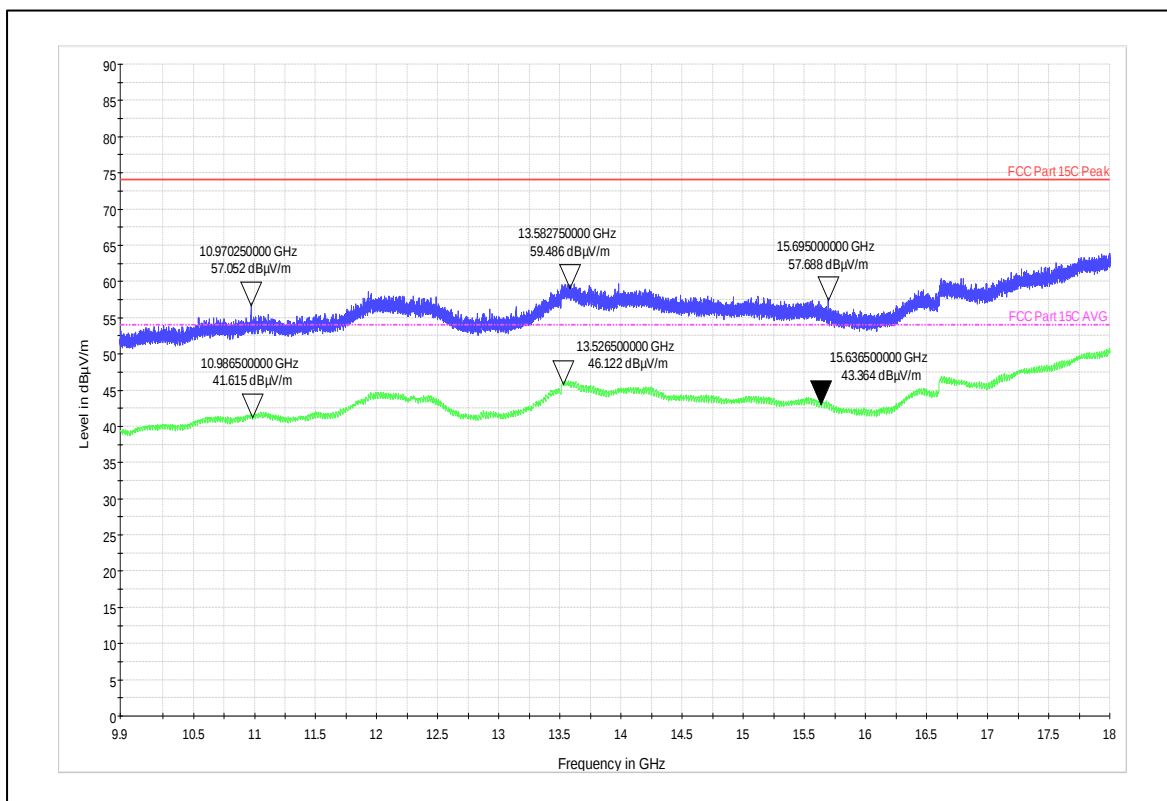
Channel Frequency: 9.9 – 18 GHz

Polarization: Vertical



Channel Frequency: 1 – 9.9 GHz

Polarization: Horizontal

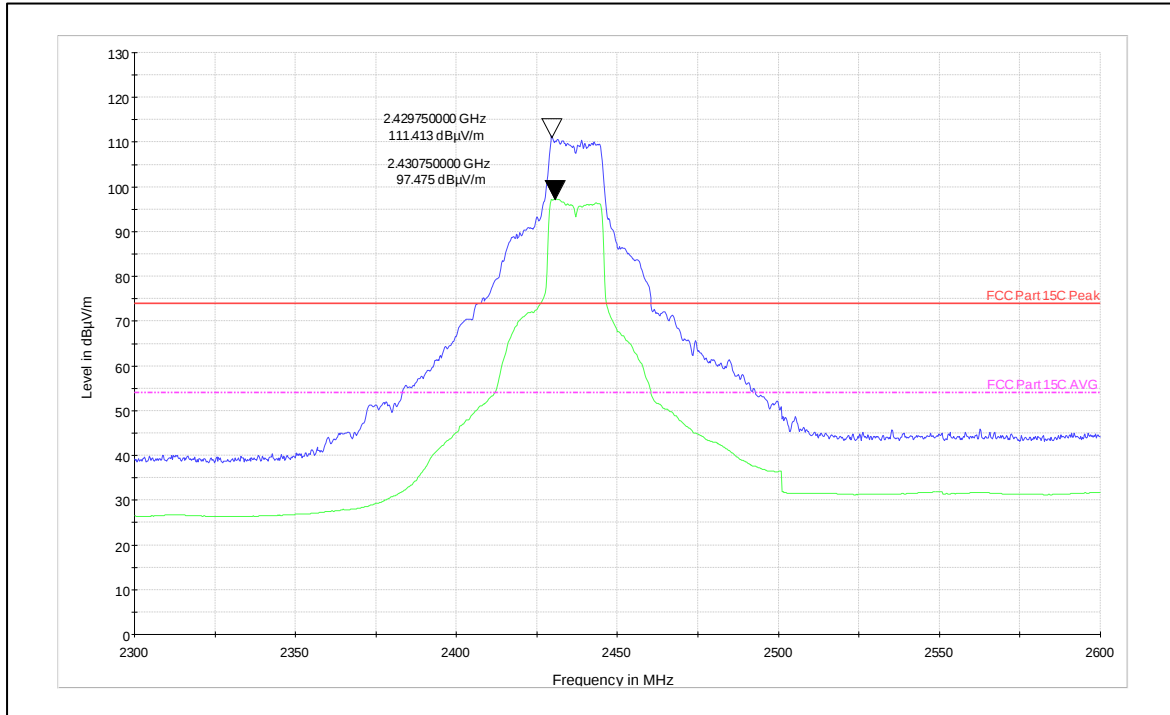


Channel Frequency: 9.9 – 18 GHz

Polarization: Horizontal

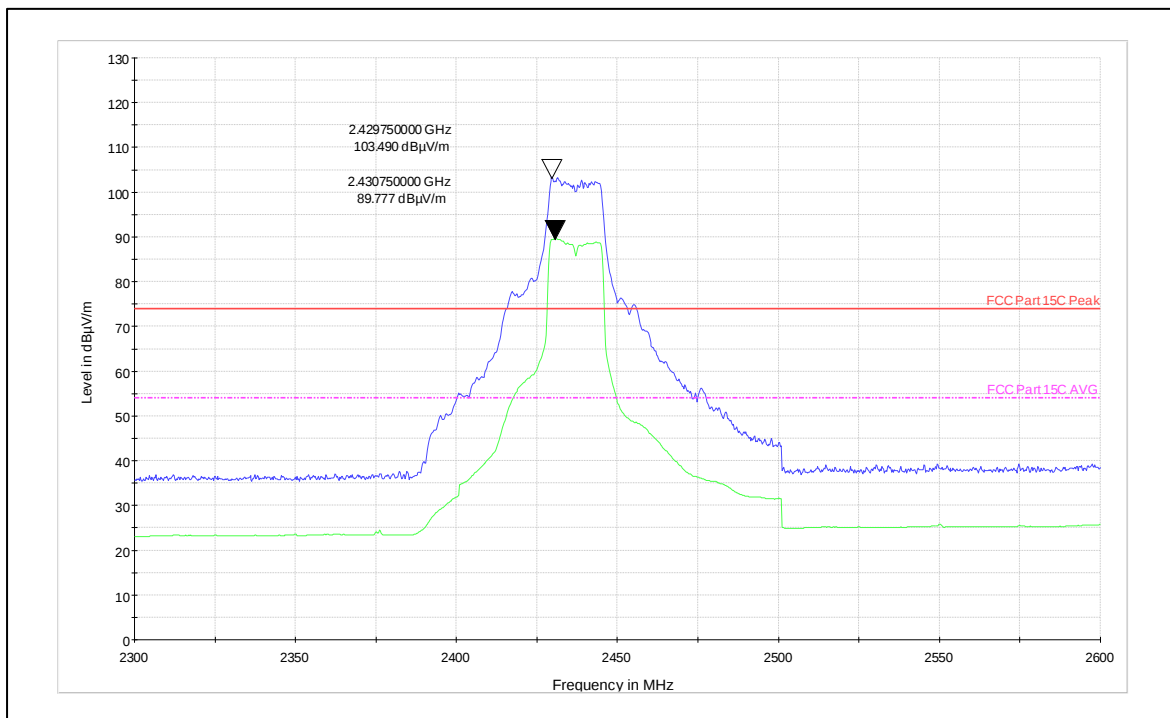
Data Rate: 54Mbps

Channel Frequency 2437MHz



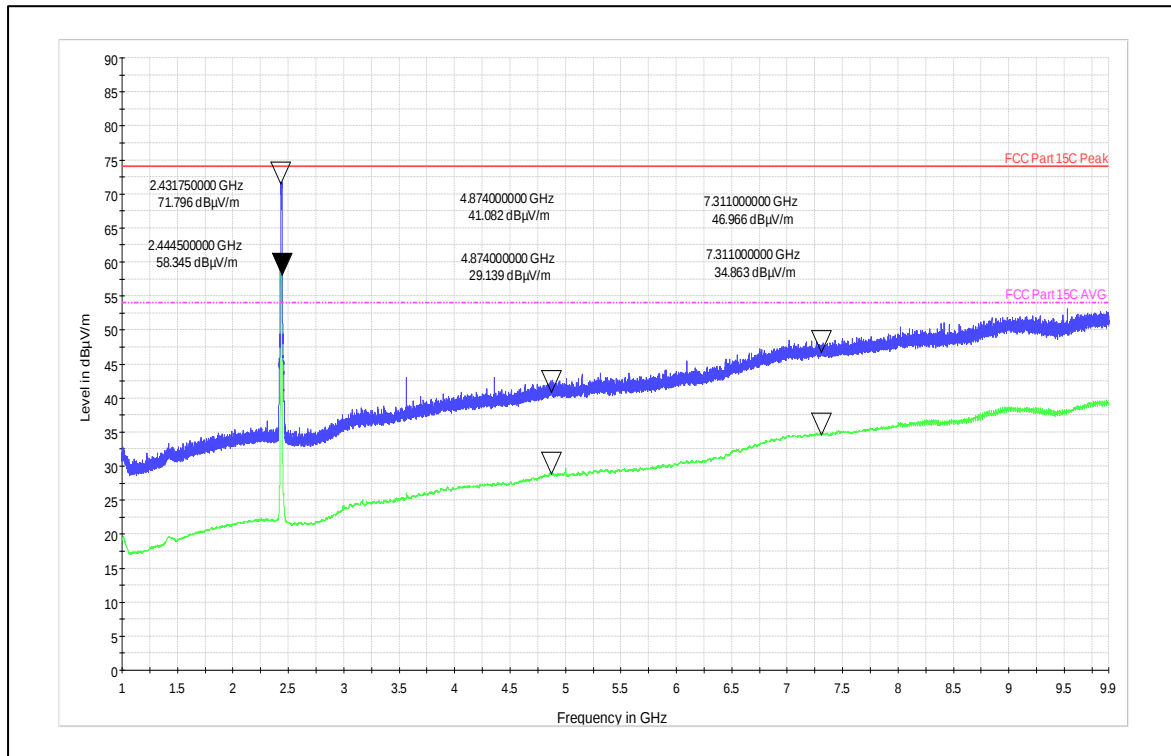
Channel Frequency: 2437MHz

Polarization: Vertical



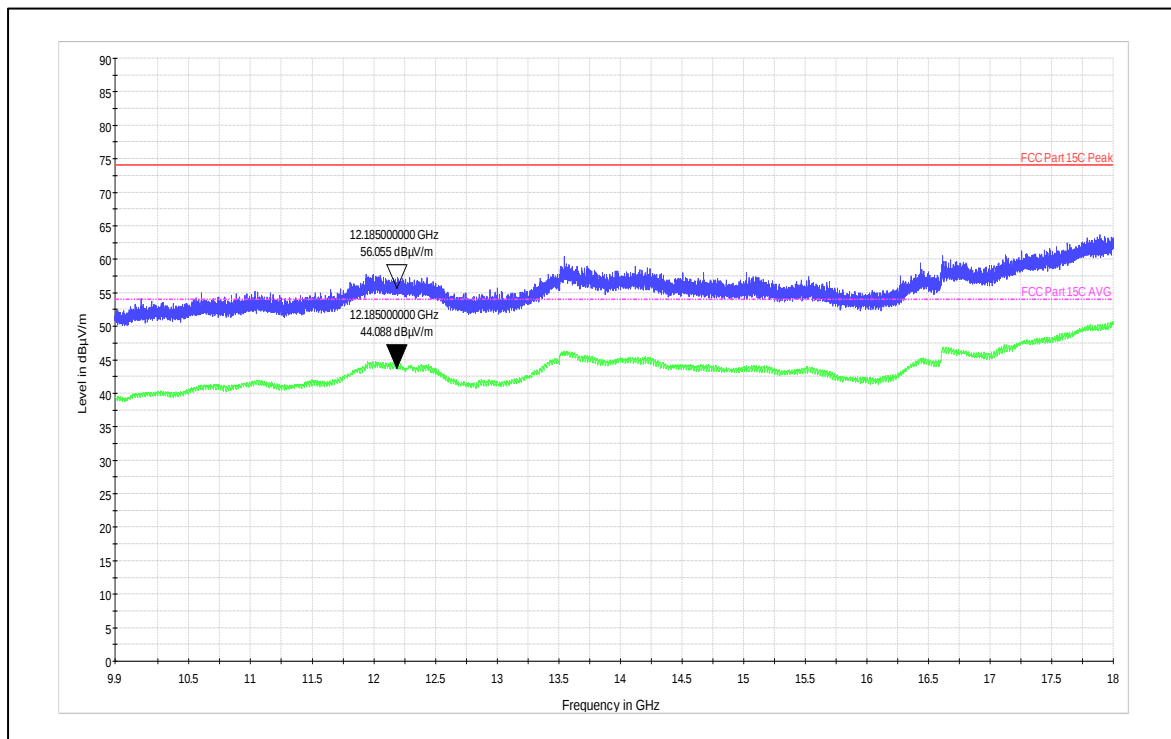
Channel Frequency: 2437MHz

Polarization: Horizontal



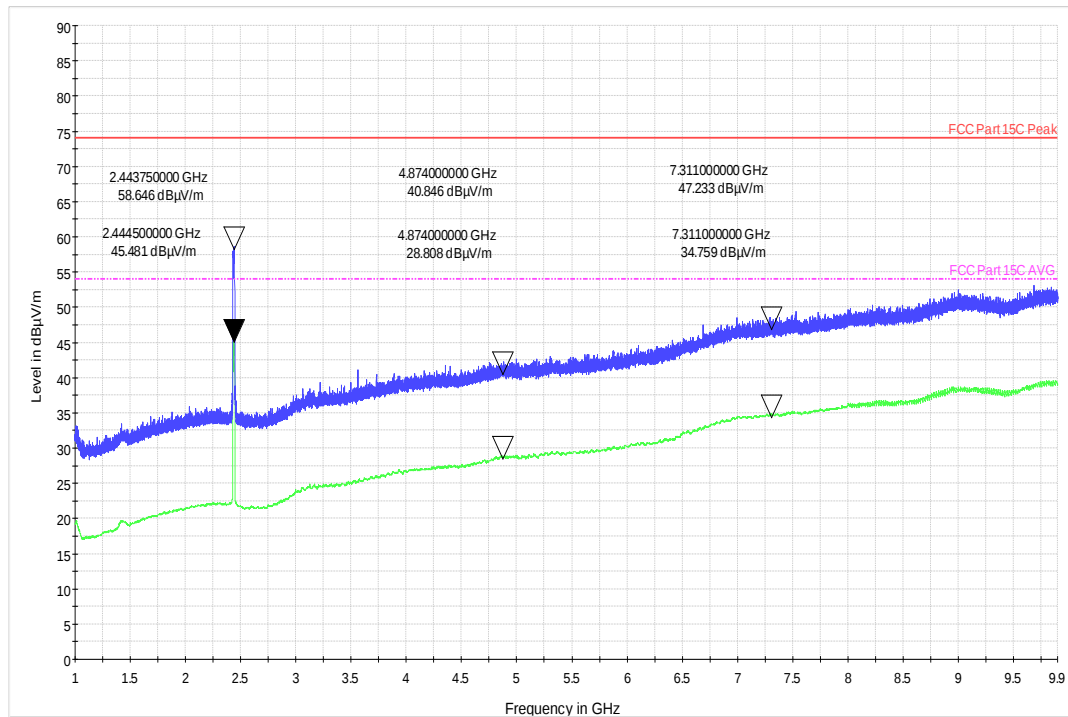
Channel Frequency: 1 – 9.9 GHz

Polarization: Vertical



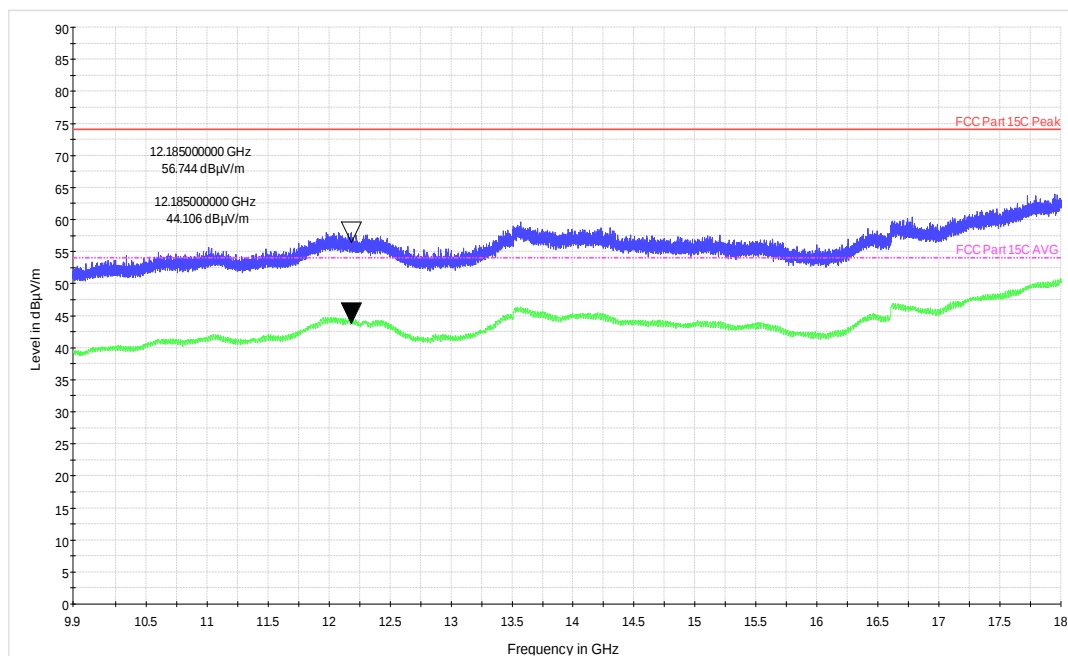
Channel Frequency: 9.9 – 18 GHz

Polarization: Vertical



Channel Frequency: 1 – 9.9 GHz

Polarization: Horizontal



Channel Frequency: 9.9 – 18 GHz

Polarization: Horizontal

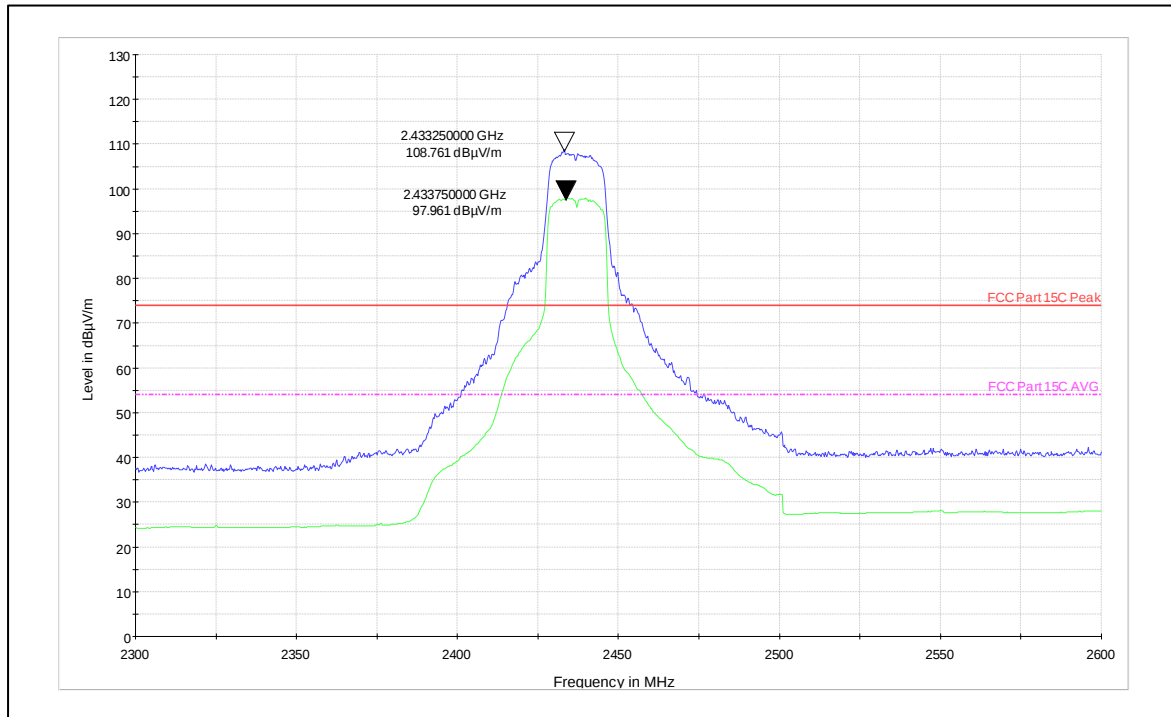
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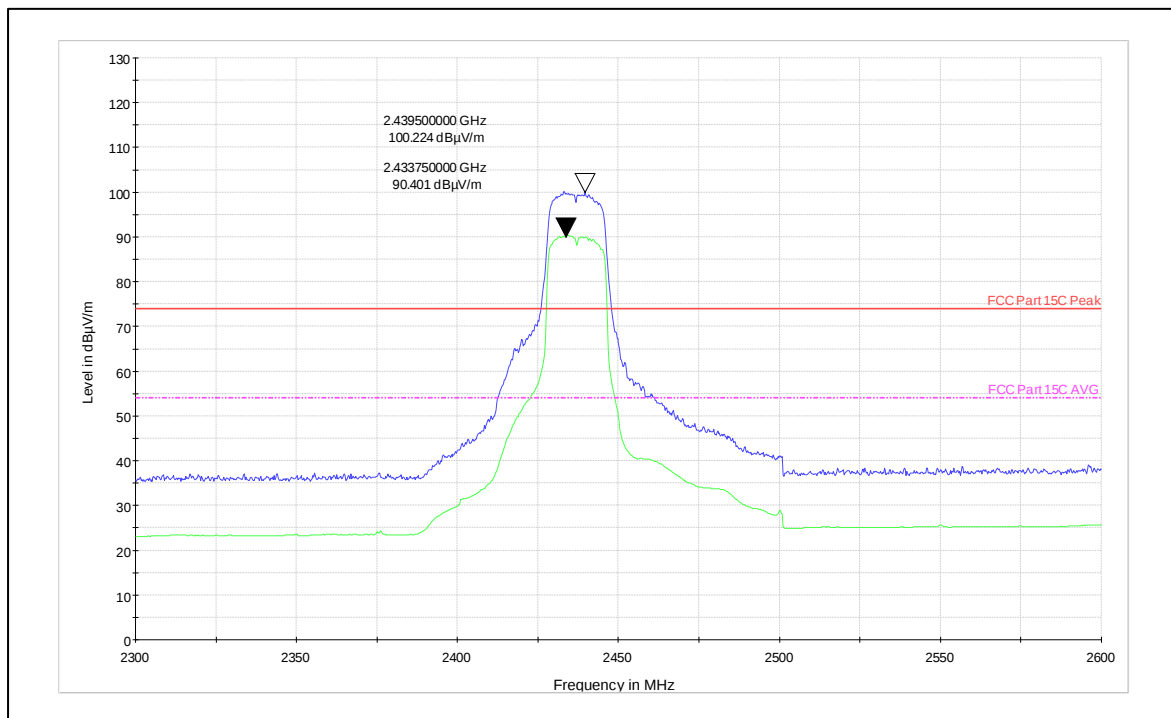
Data Rate: MCS7_n Mode 20MHz

Channel Frequency 2437MHz



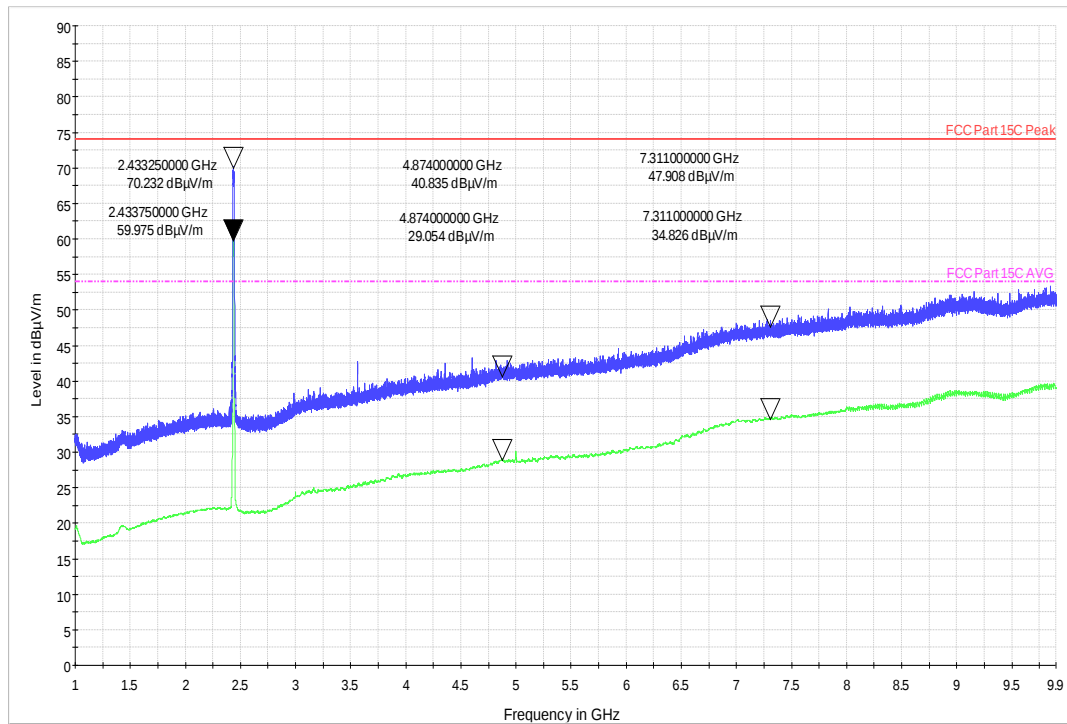
Channel Frequency: 2437MHz

Polarization: Vertical



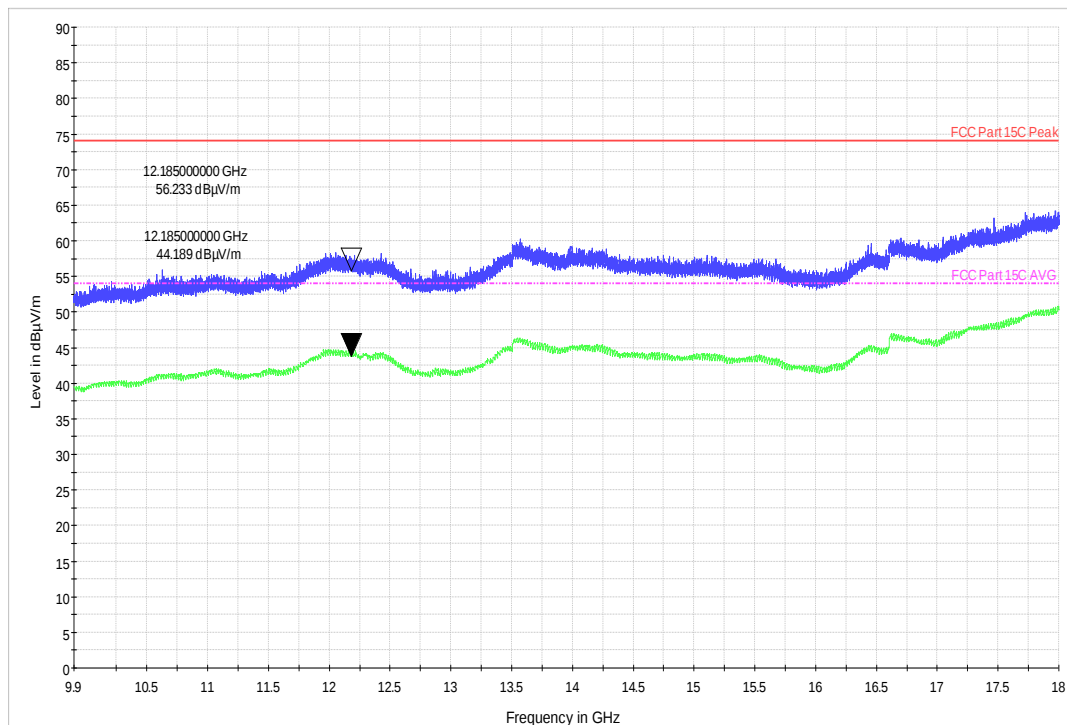
Channel Frequency: 2437MHz

Polarization: Horizontal



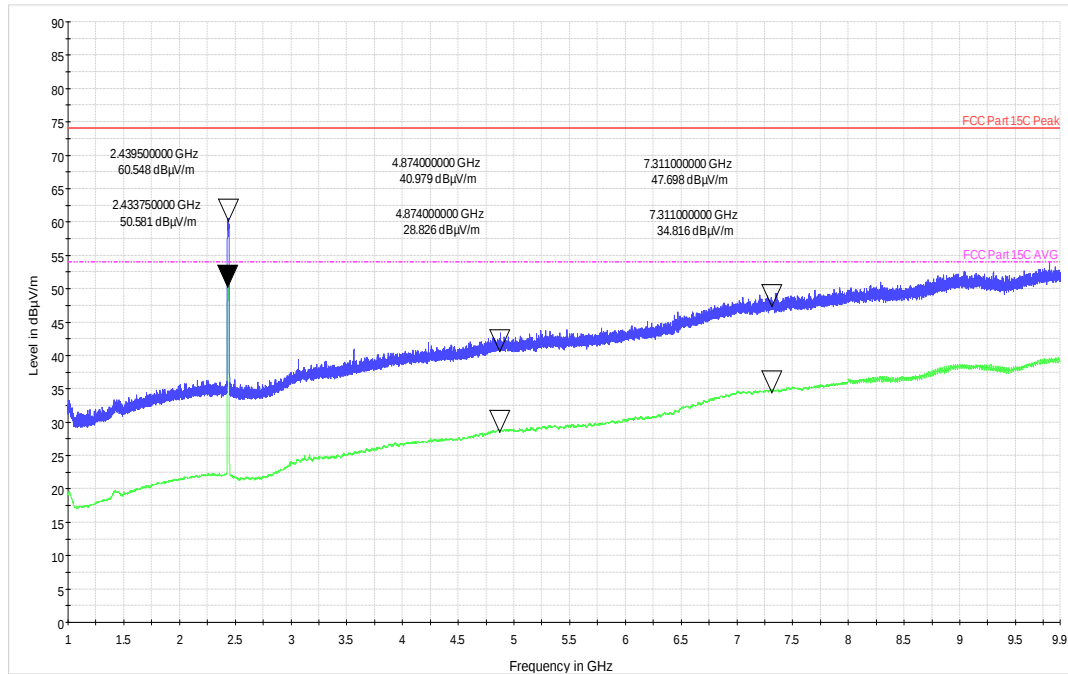
Channel Frequency: 1 – 9.9 GHz

Polarization: Vertical



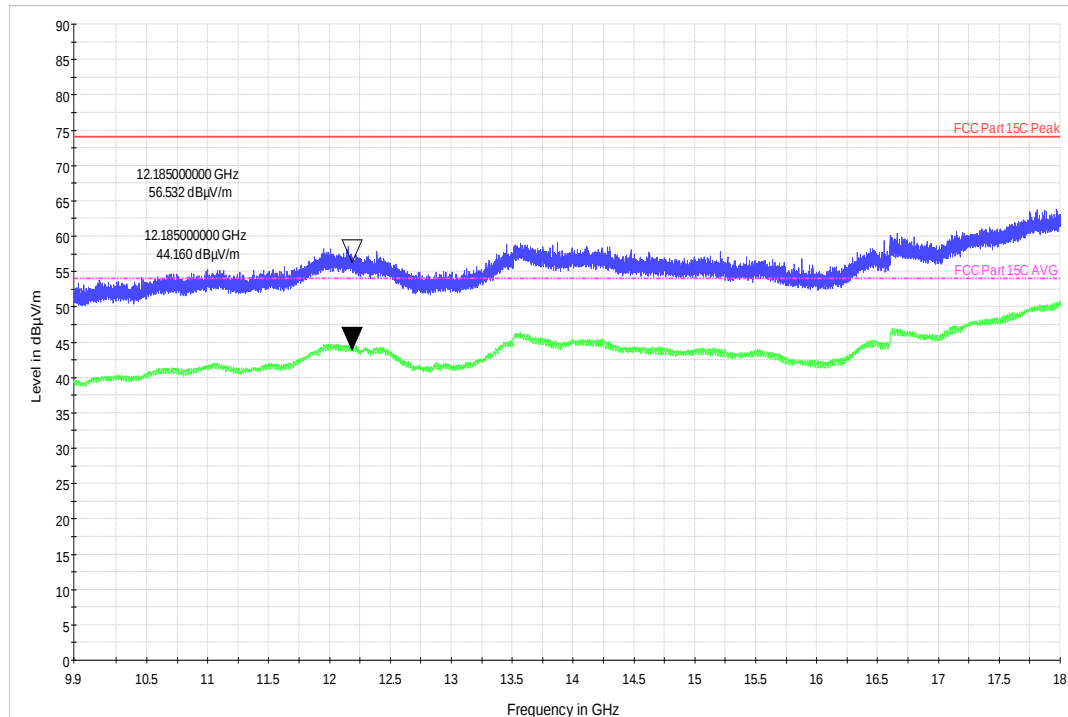
Channel Frequency: 9.9 – 18 GHz

Polarization: Vertical



Channel Frequency: 1 – 9.9 GHz

Polarization: Horizontal

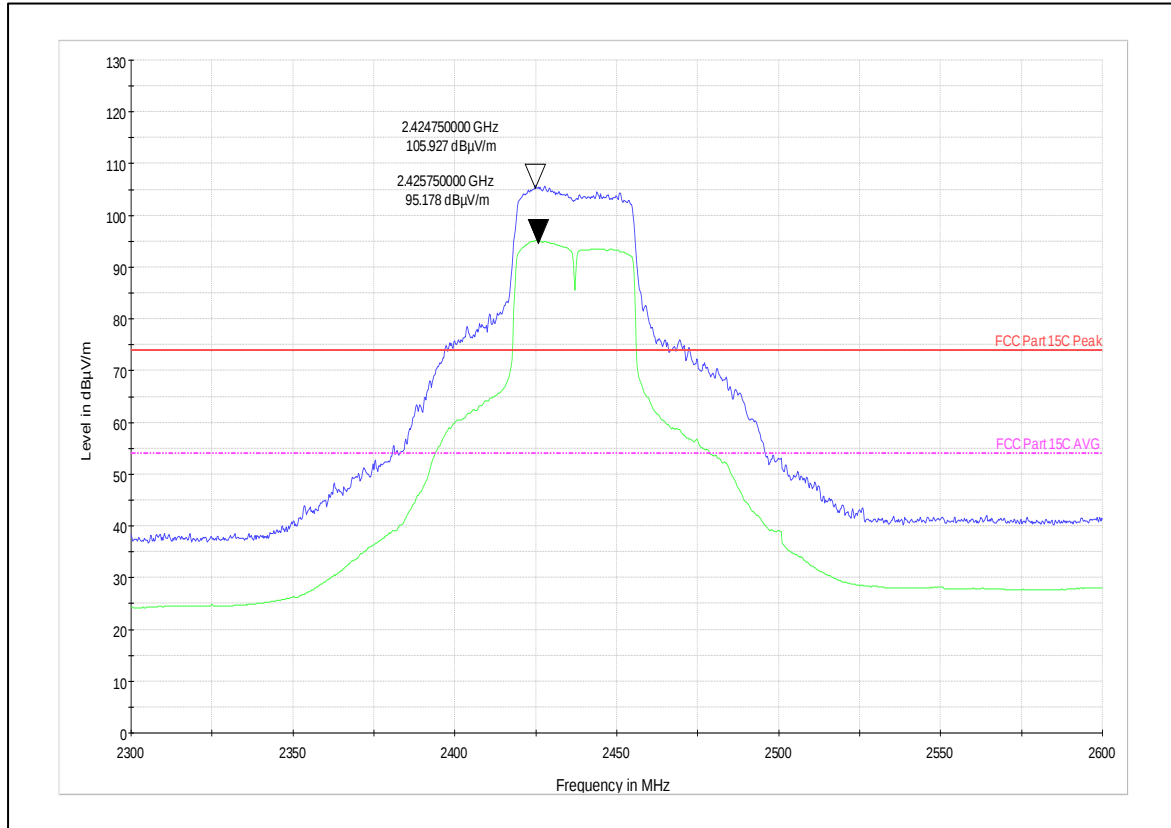


Channel Frequency: 9.9 – 18 GHz

Polarization: Horizontal

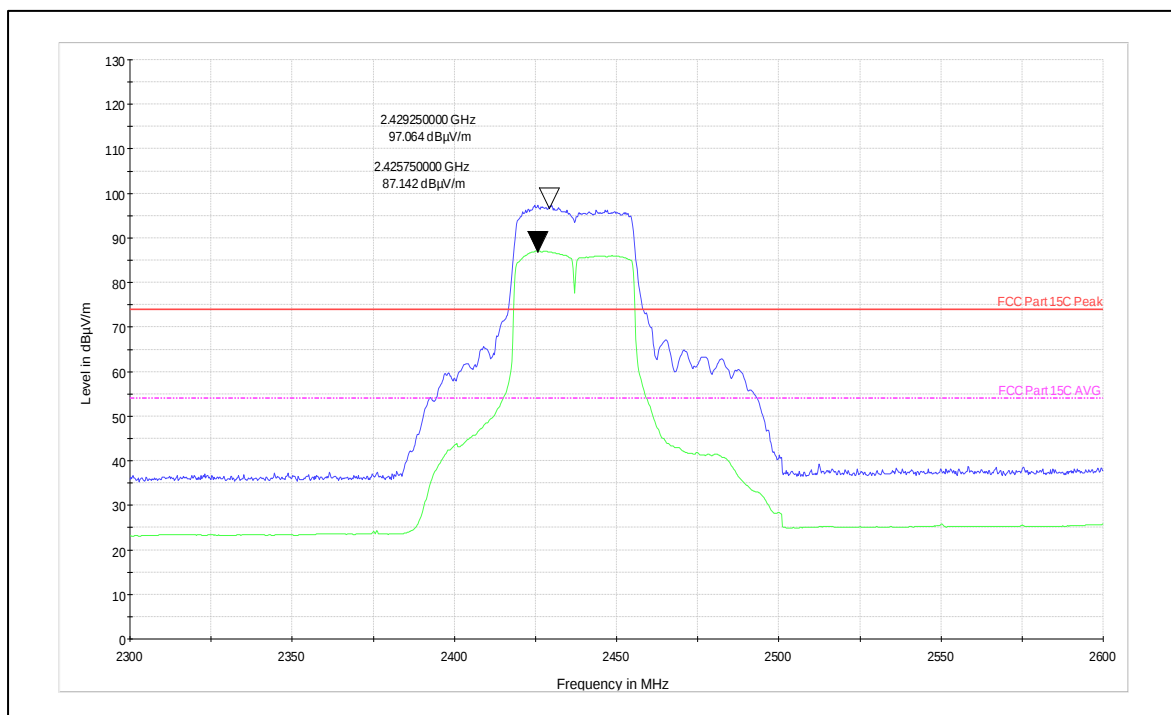
Data Rate: MCS0_n Mode 40MHz

Channel Frequency 2437MHz



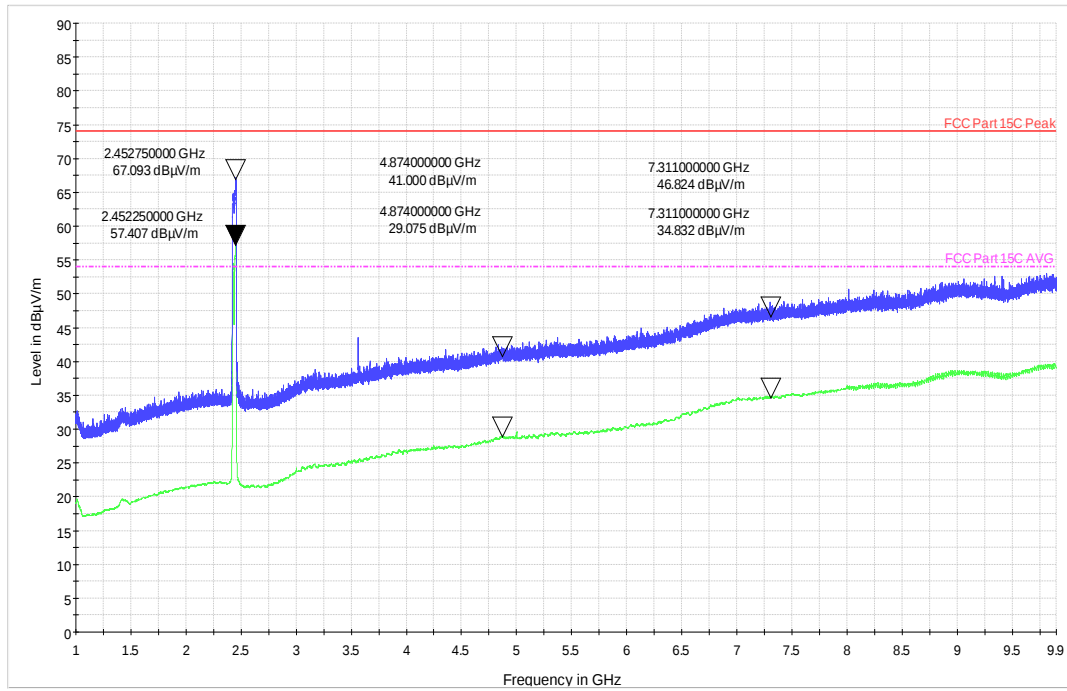
Channel Frequency: 2437MHz

Polarization: Vertical



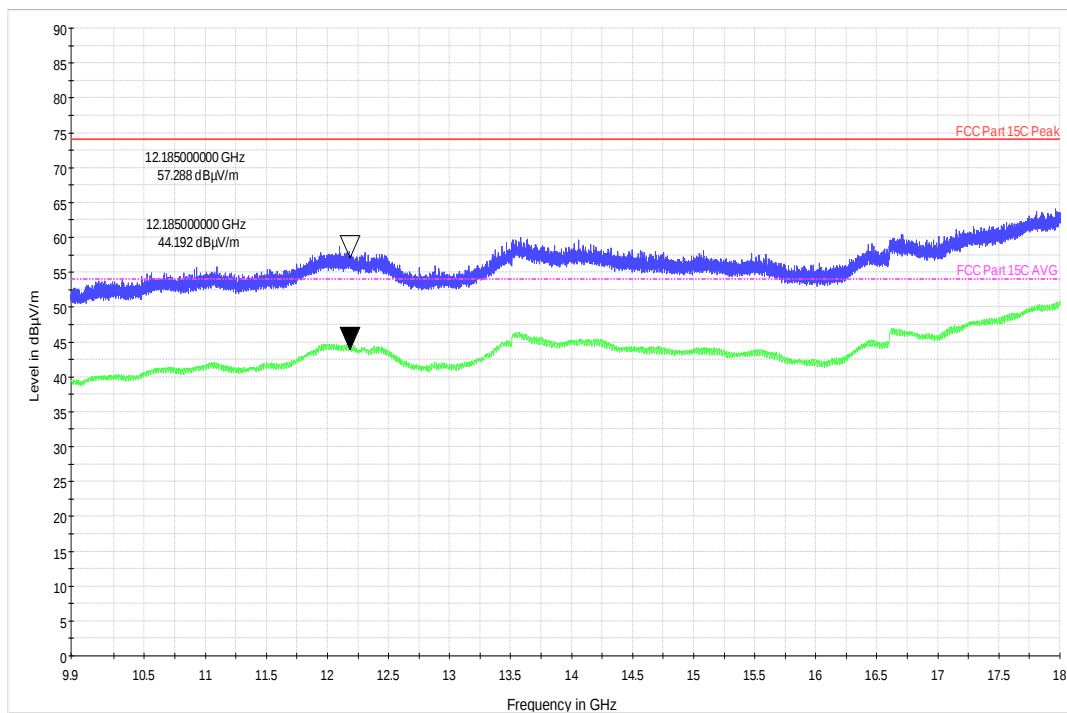
Channel Frequency: 2437MHz

Polarization: Horizontal



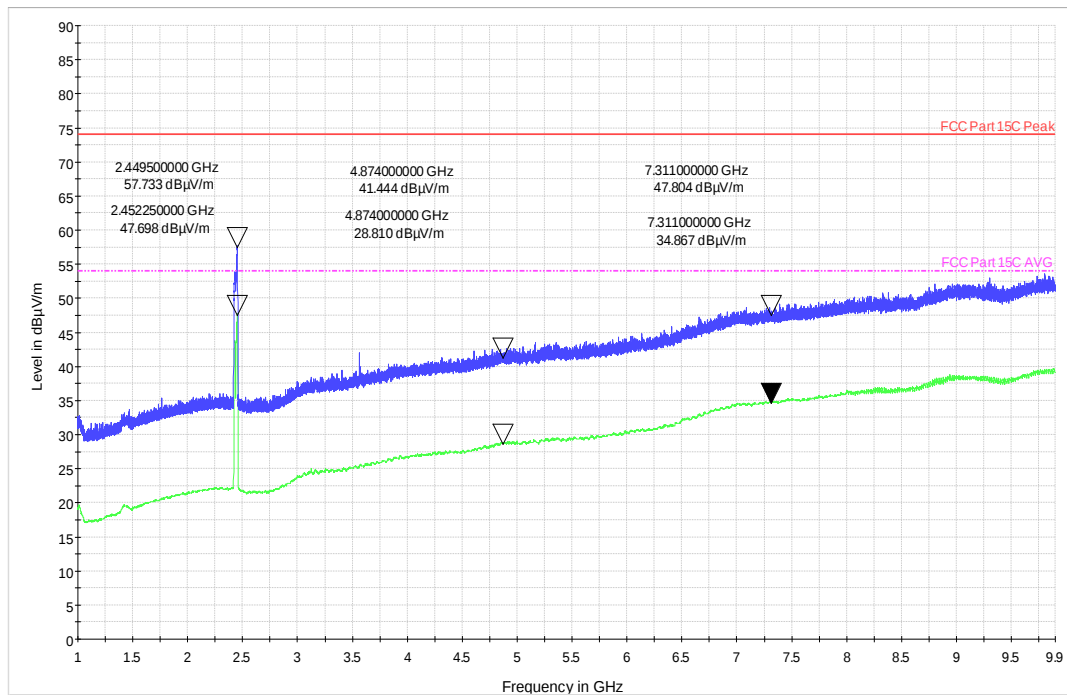
Channel Frequency: 1 – 9.9 GHz

Polarization: Vertical



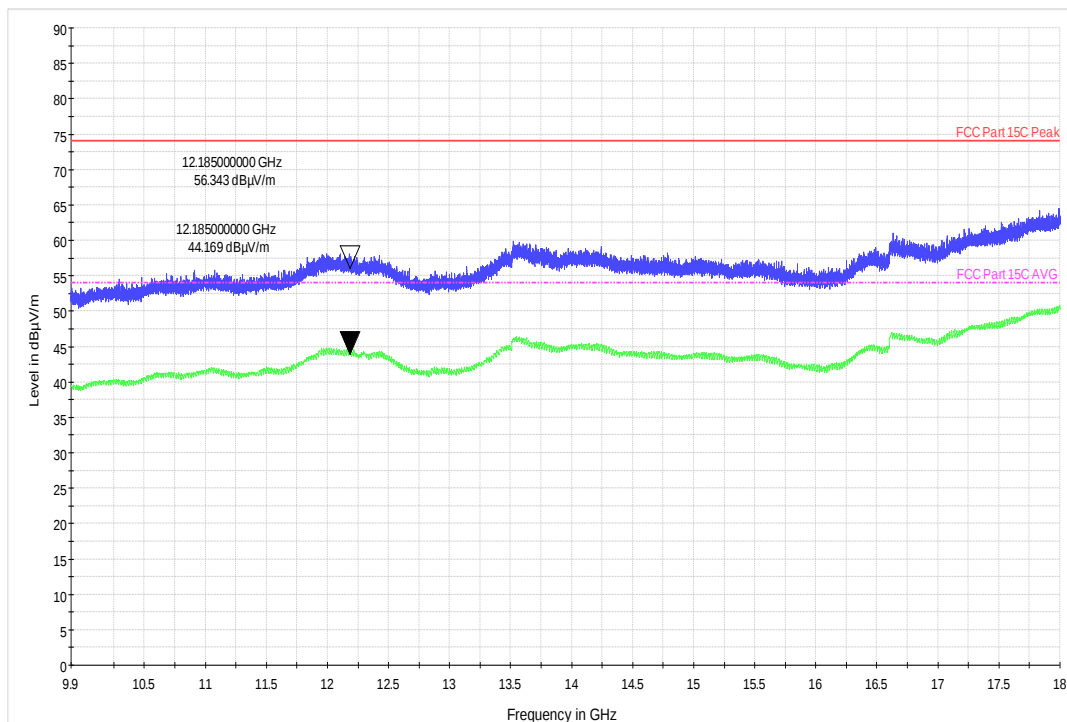
Channel Frequency: 9.9 – 18 GHz

Polarization: Vertical



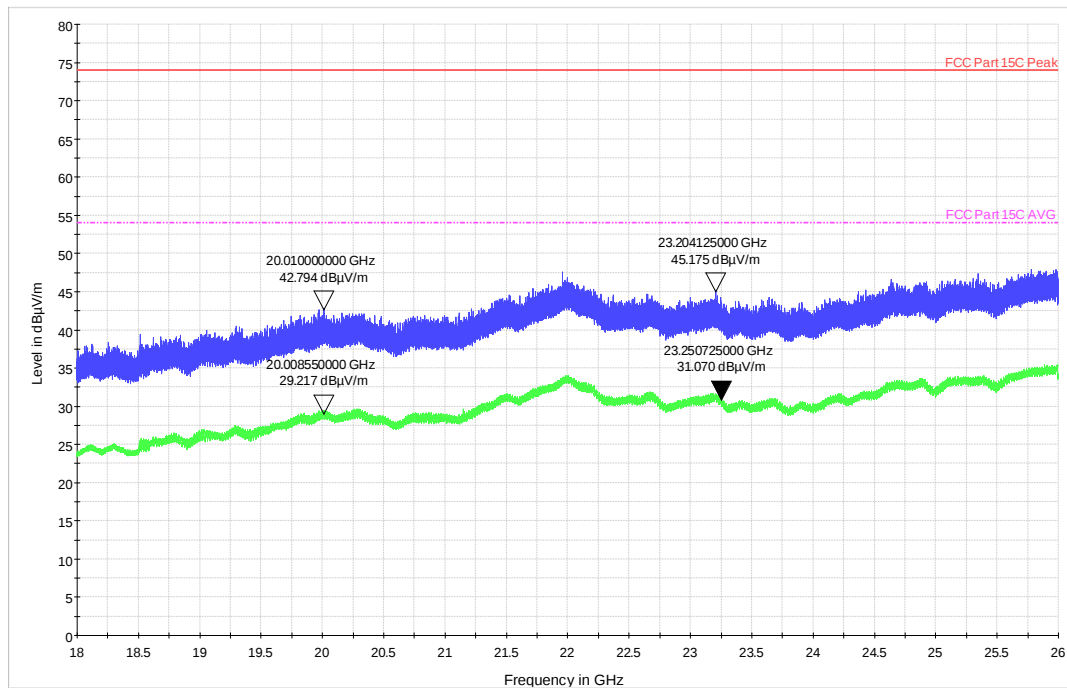
Channel Frequency: 1 – 9.9 GHz

Polarization: Horizontal



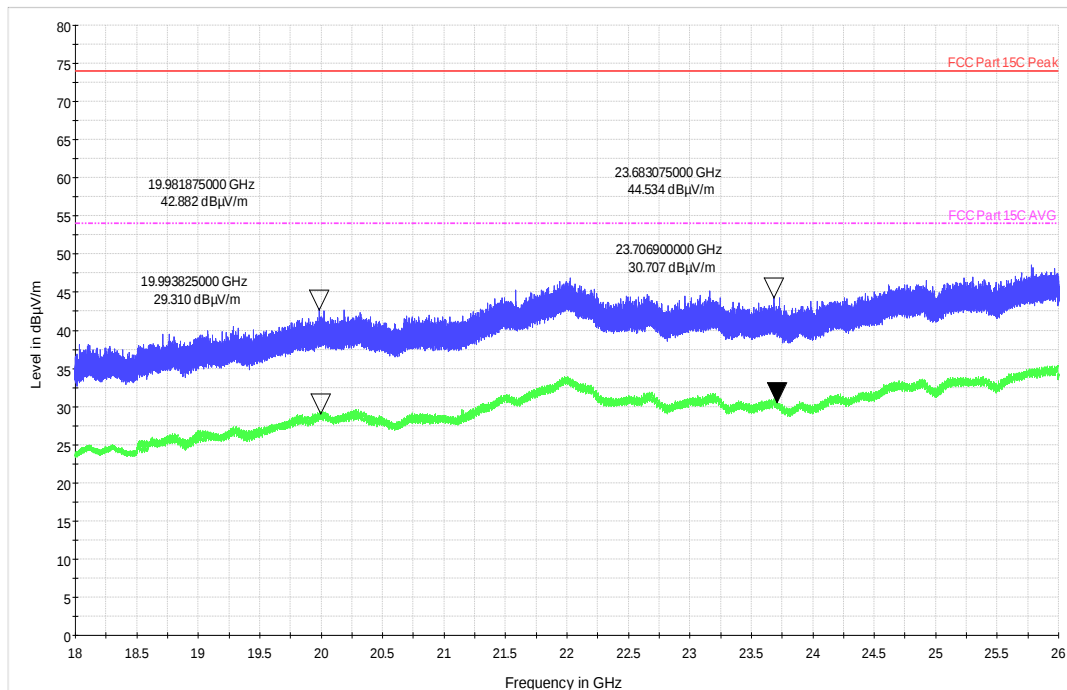
Channel Frequency: 9.9 – 18 GHz

Polarization: Horizontal



Channel Frequency: 18 - 40 GHz

Polarization: Vertical



Channel Frequency: 18 - 40 GHz

Polarization: Horizontal

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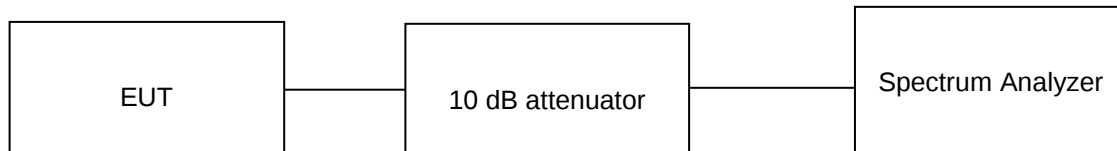
9 TEST RESULTS FOR BLUETOOTH LOW ENERGY

9.1 Maximum Peak Conducted Output Power

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (b)(3) / RSS 247 Issue 2, Section 5.4 (d)
Test Method	Subclause 11.9.1.1 of ANSI C63.10
Measurement Bandwidth	300 kHz
Detector	Peak
Port of testing	Antenna port
Requirement	Power ≤ 1 W (30 dBm) & e.i.r.p ≤ 4 W (36 dBm)



Test Condition

Normal Test Condition:

Temperature (Norm) = + 25 °C

Voltage = 5.0V AC to DC Adaptor

Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 8.3.1 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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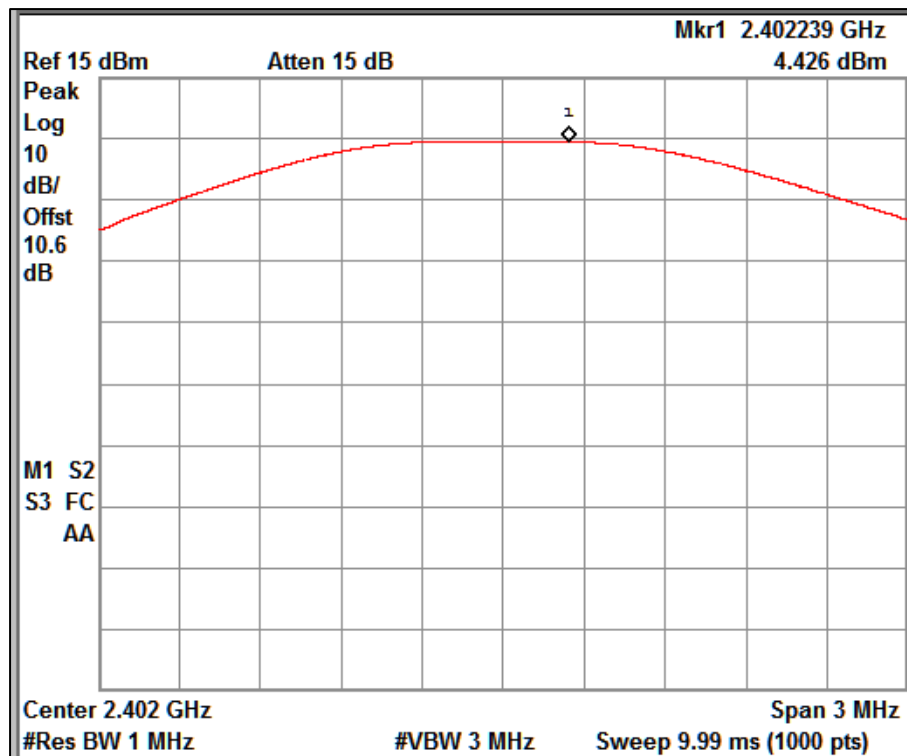
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Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Peak Output power (dBm) = Measured Peak power (dBm) + Attenuator factor (10dB) + Cable loss (0.5dB)
3. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is 2.35 dBi
4. Maximum (e.i.r.p) = Maximum Peak output power (dBm) + antenna gain (2.35 dBi)

Data Rate (Mbps)	Channel Frequency (MHz)	Power Limit (dBm)	Maximum Peak Conducted Output Power (dBm)	Maximum (e.i.r.p)	Limit (e.i.r.p)
1	2402	30	4.42	6.95	36
	2440	30	4.97	7.50	36
	2480	30	5.08	7.61	36

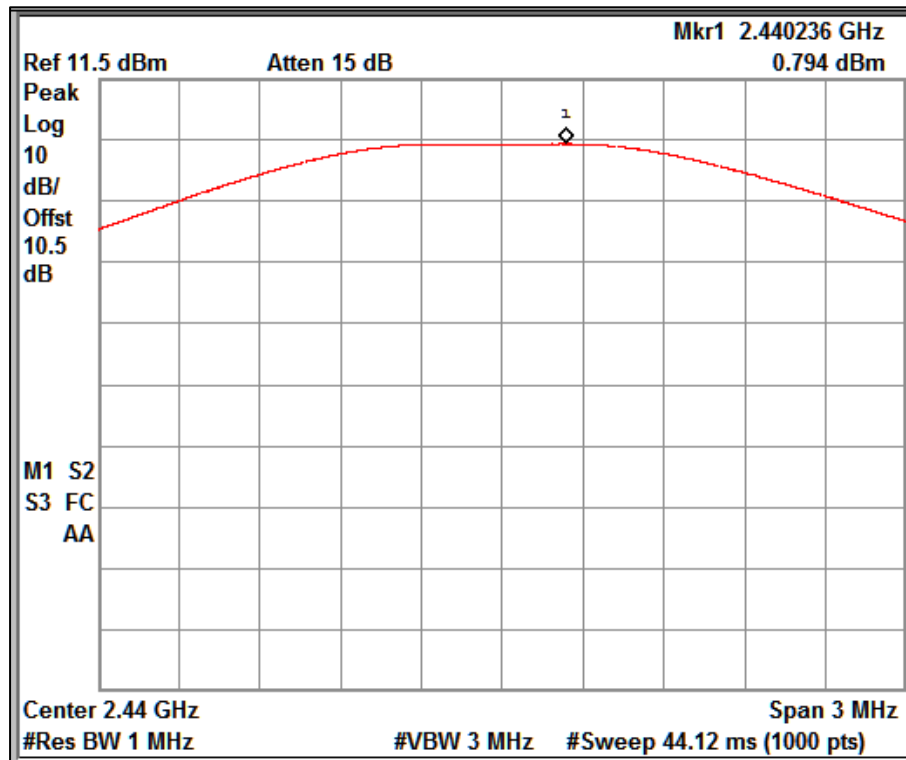


Channel Frequency: 2402MHz

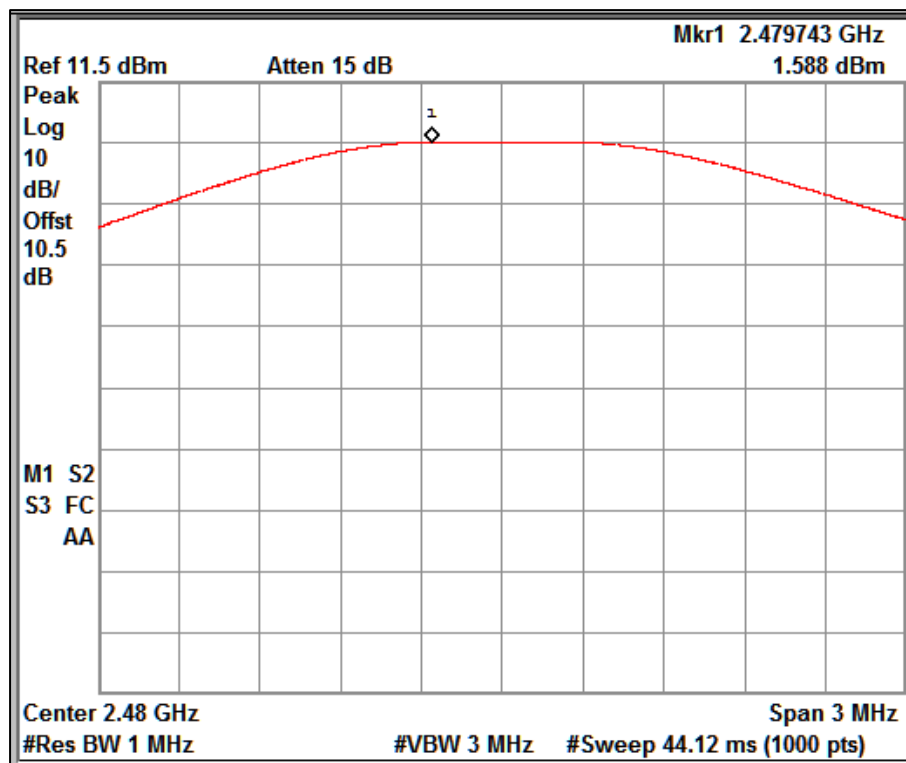
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Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

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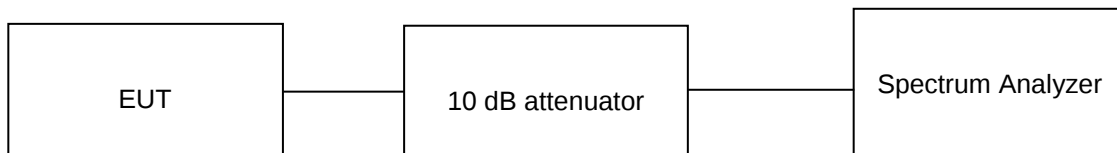
9.2 Maximum Power Spectral Density

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (e) / RSS 247 Issue 2, Section 5.2 (b)
Test Method	Subclause 11.10.2 of ANSI C63.10
Measurement Bandwidth	3 kHz
Detector	Peak detector
Port of testing	Antenna port
Requirement	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm

Test Method:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 25°C Voltage = 5.0V AC to DC Adaptor Relative humidity: 62 %

KDB Guidelines applied:

Measurements were made as per section 8.4 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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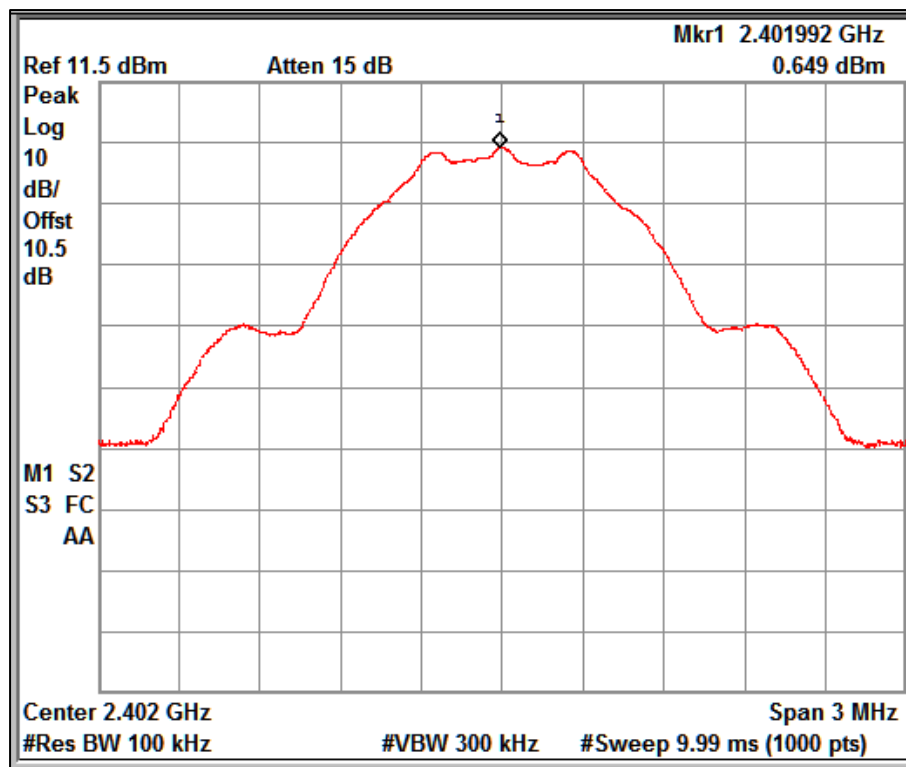
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Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Peak PSD (dBm) = Measured Peak PSD (dBm) + Attenuator factor (10dB) + Cable loss (0.5dB)
3. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is 2.35 dBi

Data Rate (Mbps)	Channel Frequency (MHz)	Maximum Peak PSD (dBm/100kHz)	Limit (dBm/100kHz)
1	2402	0.64	8
	2440	0.65	8
	2480	1.49	8

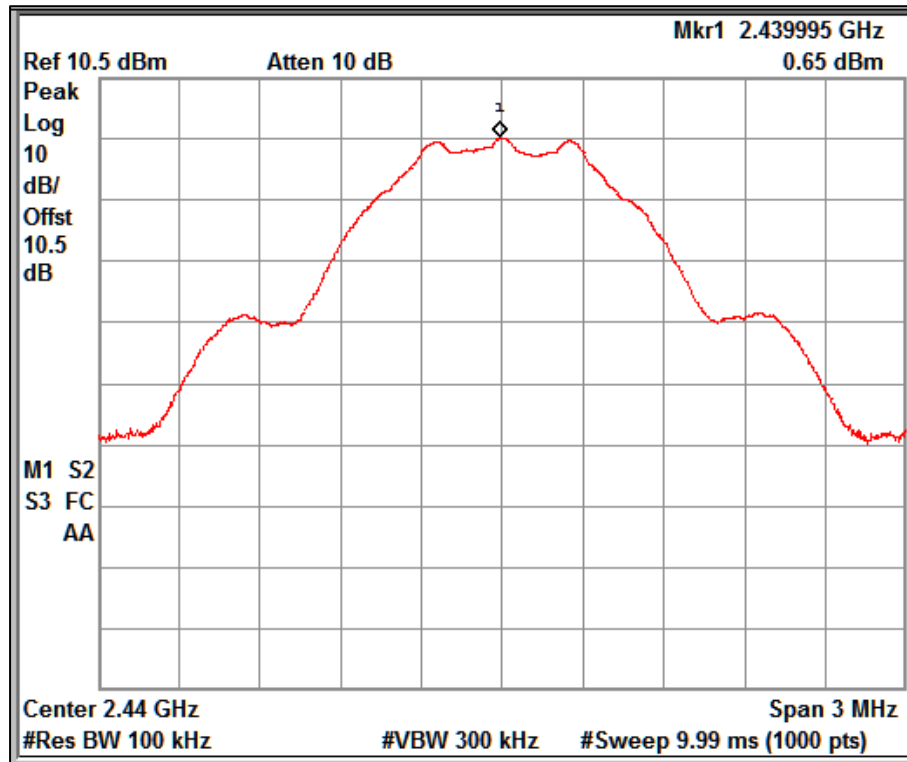


Channel Frequency: 2402MHz

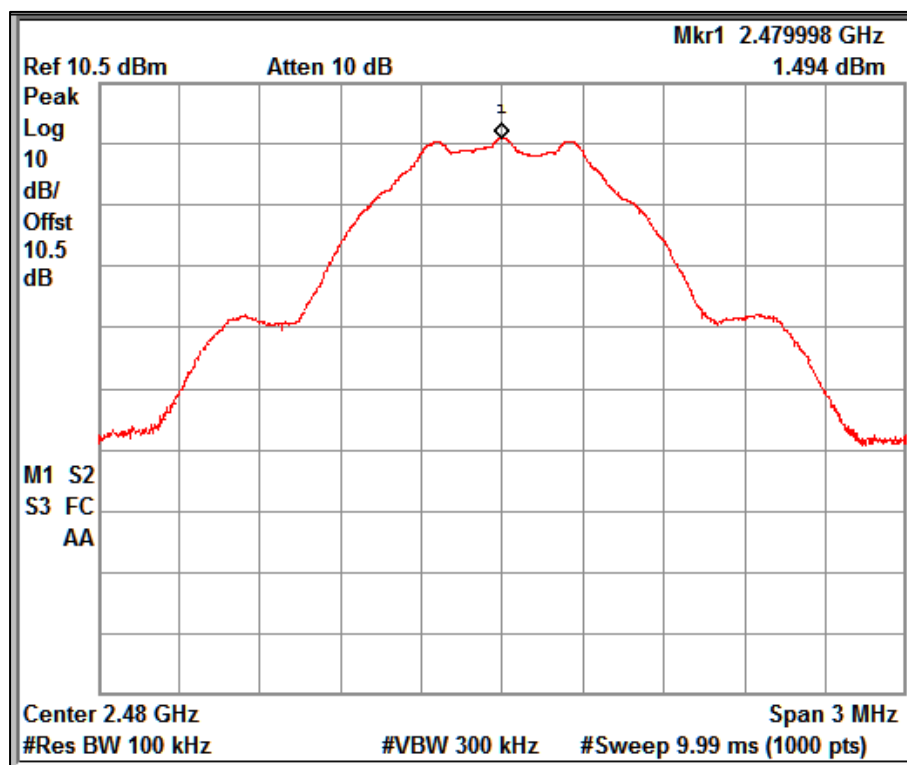
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Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

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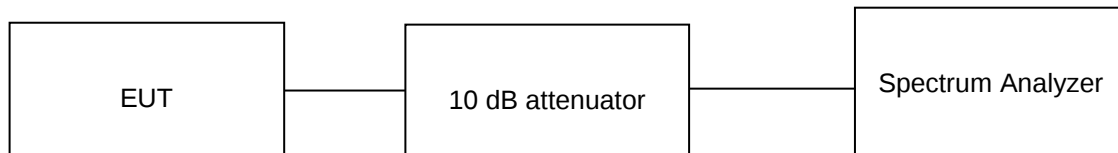
9.3 DTS Bandwidth & 99% Bandwidth

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (a) (2) / RSS 247 Issue 2, Section 5.2 (a)
Test Method	Subclause 11.8.1 of ANSI C63.10
Measurement Bandwidth	100 kHz for x dB bandwidth 1 to 5% of OCB for 99% bandwidth
Detector	Peak
Port of testing	Antenna port
Requirement	The minimum 6 dB bandwidth shall be at least 500 kHz

Test Method:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 25 °C Voltage = 5.0V AC to DC Adaptor Relative humidity: 62 %

KDB Guidelines applied:

Measurements were made as per section 8.2 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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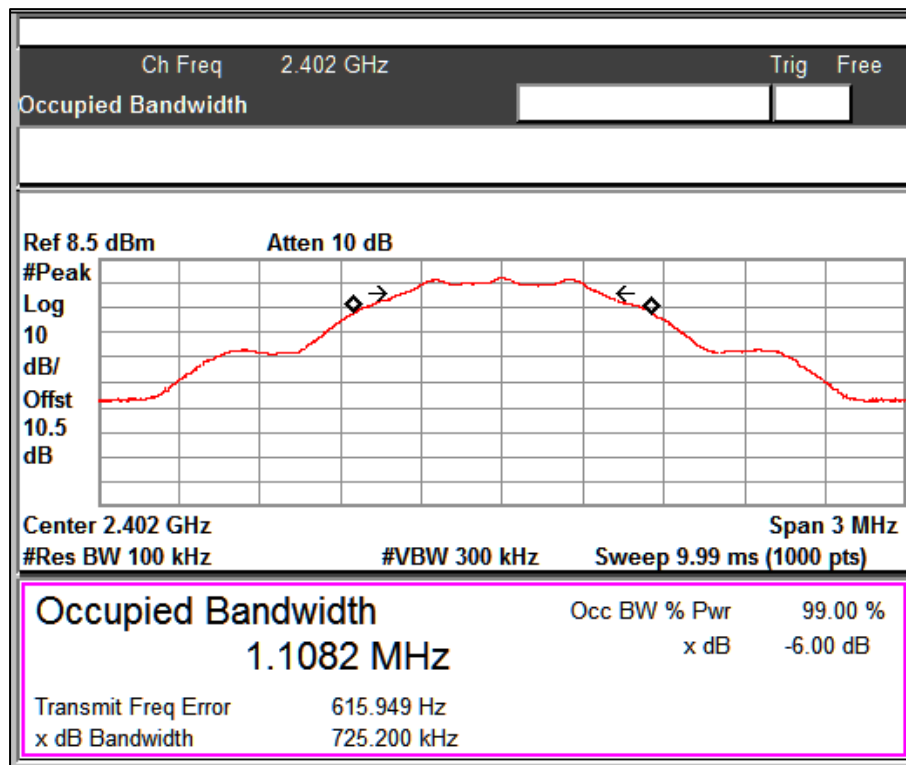
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Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.

Data Rate (Mbps)	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	99% OBW (MHz)	Minimum Limit (MHz)
1	2402	725.20	1.05	0.5
	2440	726.57	1.05	0.5
	2480	727.38	1.05	0.5

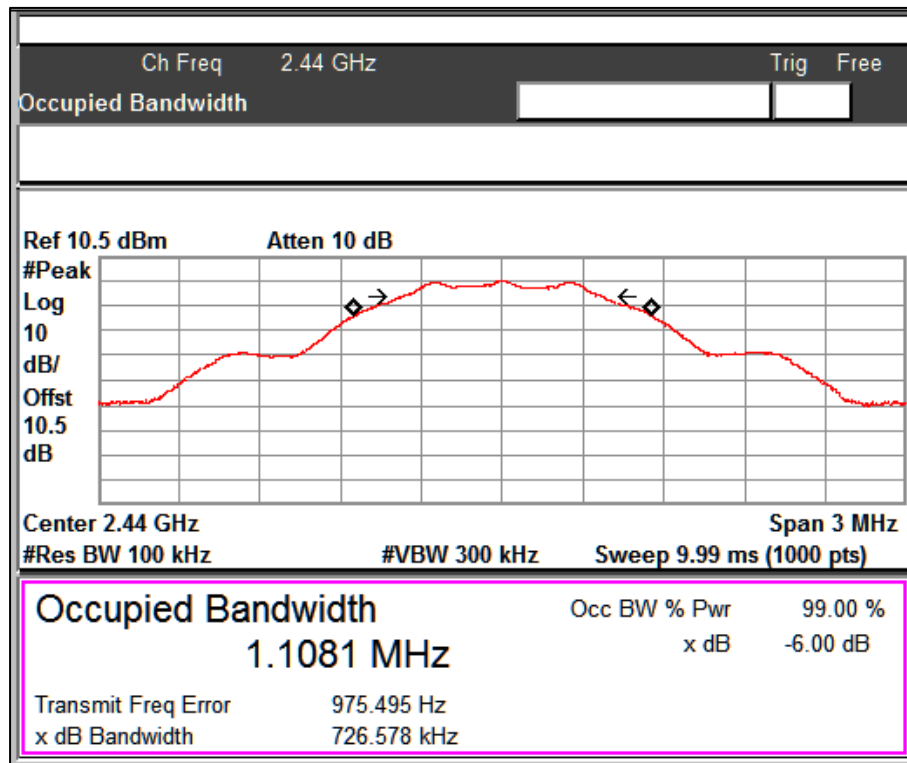


Channel Frequency: 2402MHz

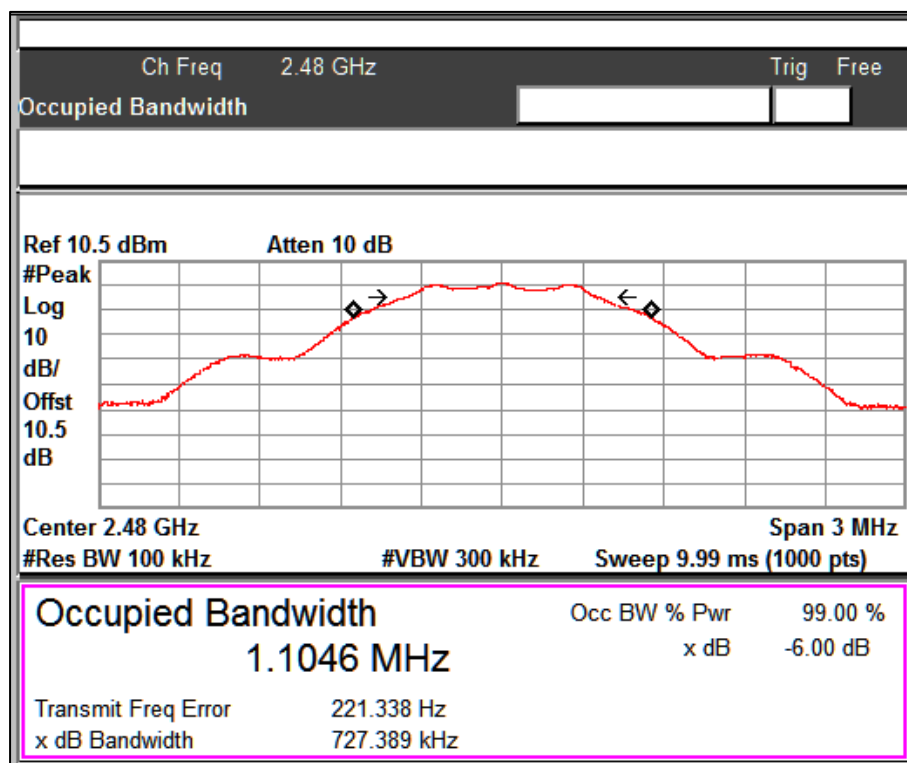
Prüfbericht - Nr.:
Test Report No.:

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Channel Frequency: 2440MHz



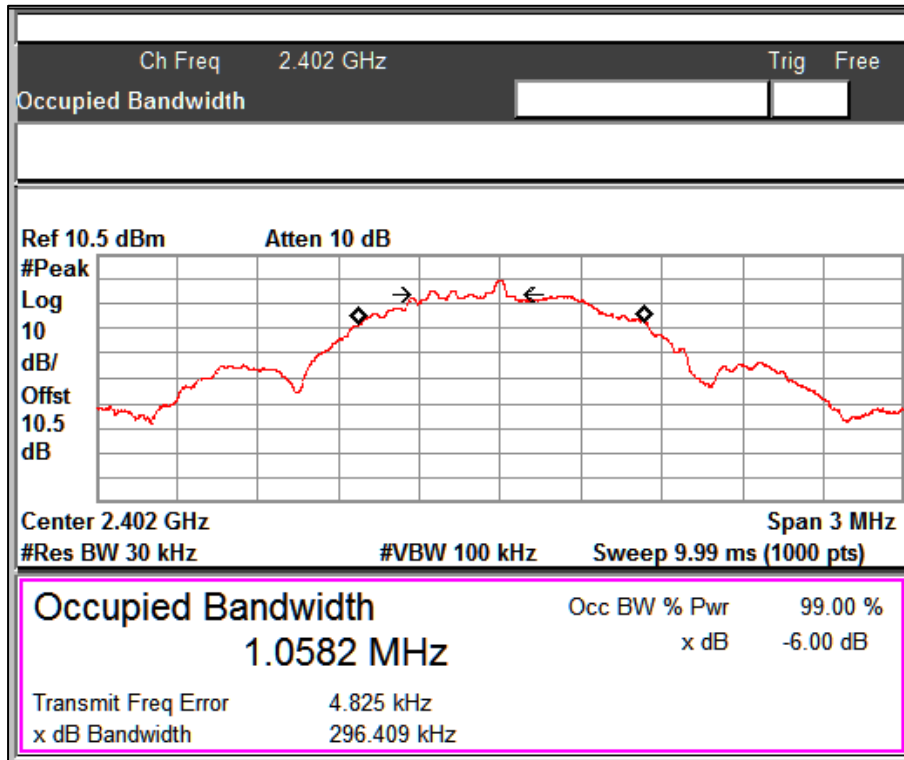
Channel Frequency: 2480MHz

Prüfbericht - Nr.:
Test Report No.:

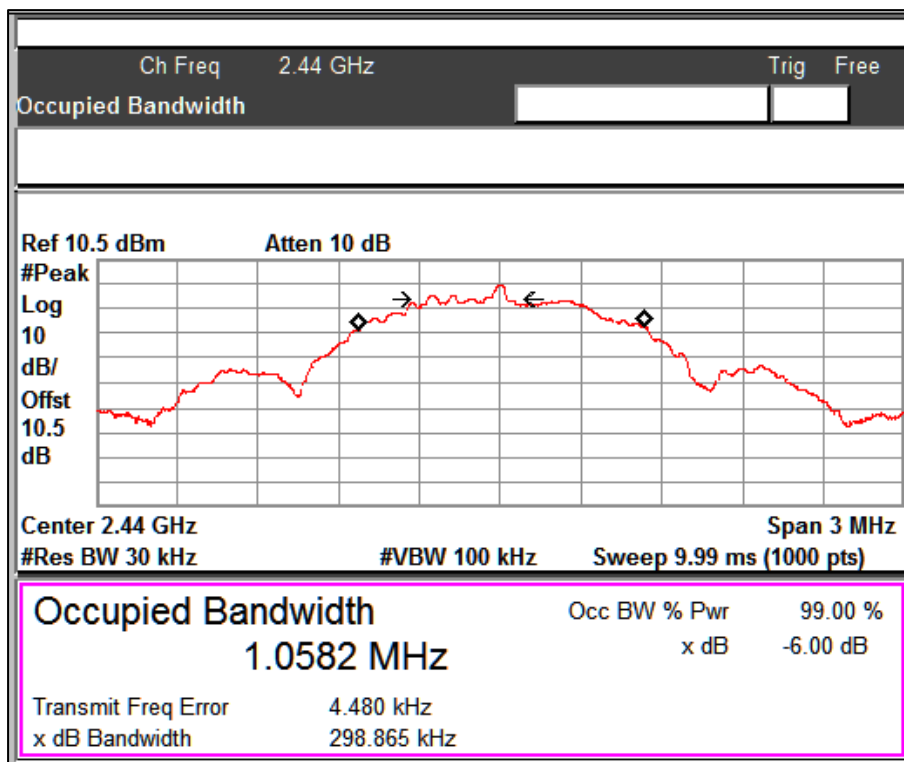
ULR-TC568821300000033F

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Graphs for OCW 99 % bandwidth measurement



Channel Frequency: 2402MHz

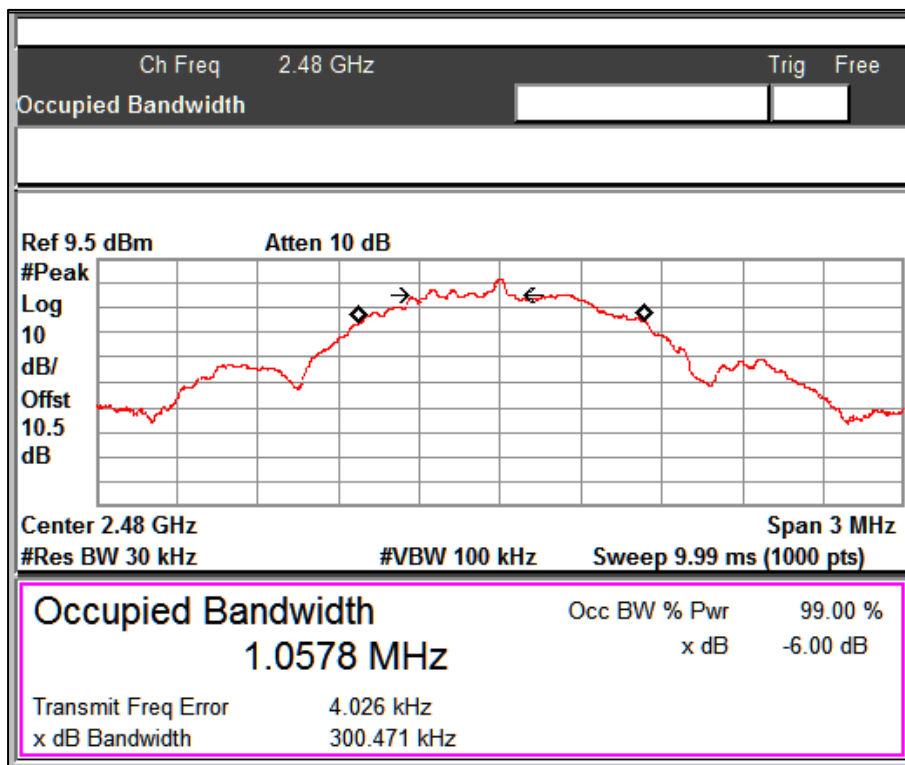


Channel Frequency: 2440MHz

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Channel Frequency: 2480MHz

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9.4 Emissions in non-restricted frequency bands and Conducted Spurious Emission

Result

Pass

Test Specification

FCC part 15 Subpart C 15.247 (d) / RSS 247 Issue 2, Section 5.5

Test Method

Subclause 11.11 of ANSI C63.10

Measurement Bandwidth

100 kHz

Detector

Peak

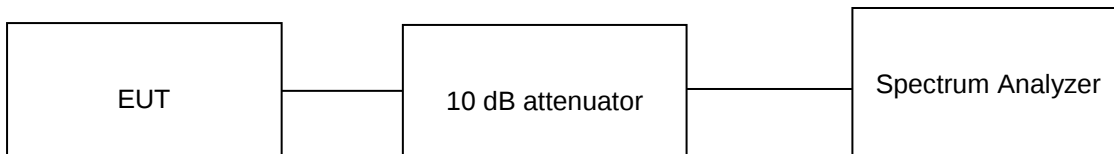
Port of testing

Antenna port

Requirement

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits

Test Method:



Test Condition

Normal Test Condition:

Temperature (Norm) = +25 °C

Voltage = 5.0V AC to DC Adaptor

Relative humidity: 62 %

KDB Guidelines applied:

Measurements were made as per section 8.5 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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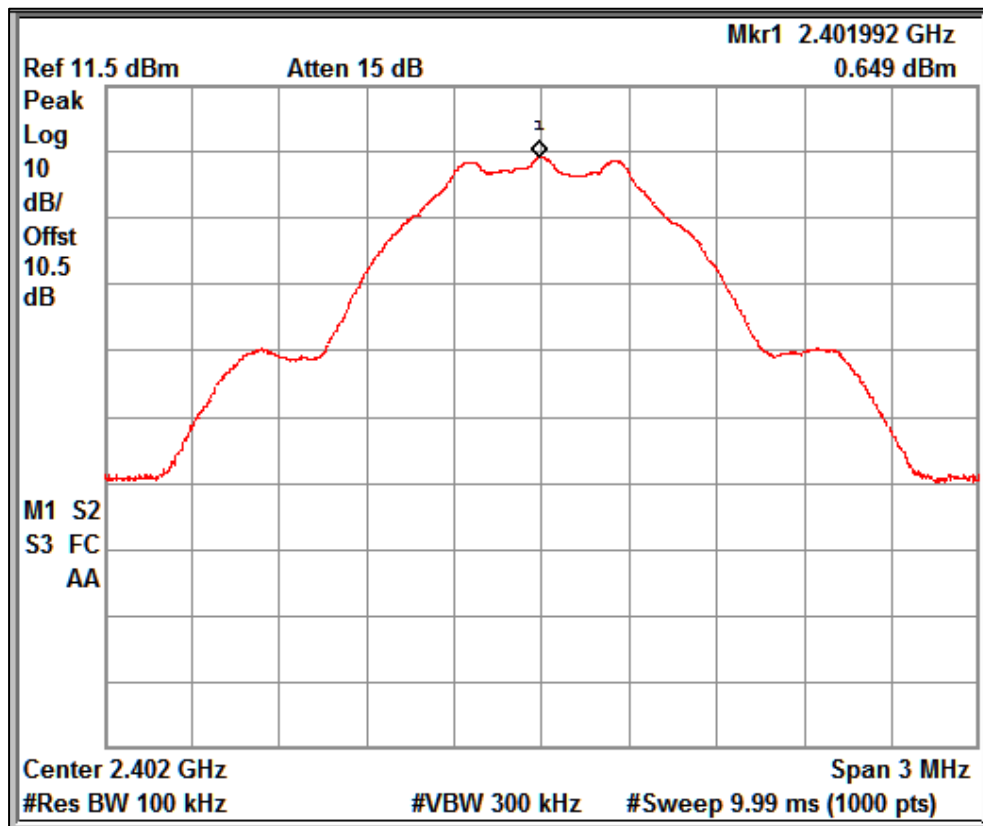
Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Final Value (dBm) = Measured Value (dBm) + Attenuator factor (10dB) + Cable loss (0.5dB)
3. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is 2.35 dBi

9.4.1 Band edge and reference plots

Data Rate (Mbps)	Channel Frequency (MHz)	Reference Value (B) (dBm)	Band edge Frequency (MHz)	Value at Band edge (A) (dBm)	A-B (dBc)	Minimum Limit (dBc)
1	2402	0.64	2390	-59.68	-60.32	-20
	2480	1.49	2483.5	-57.6	-59.09	-20

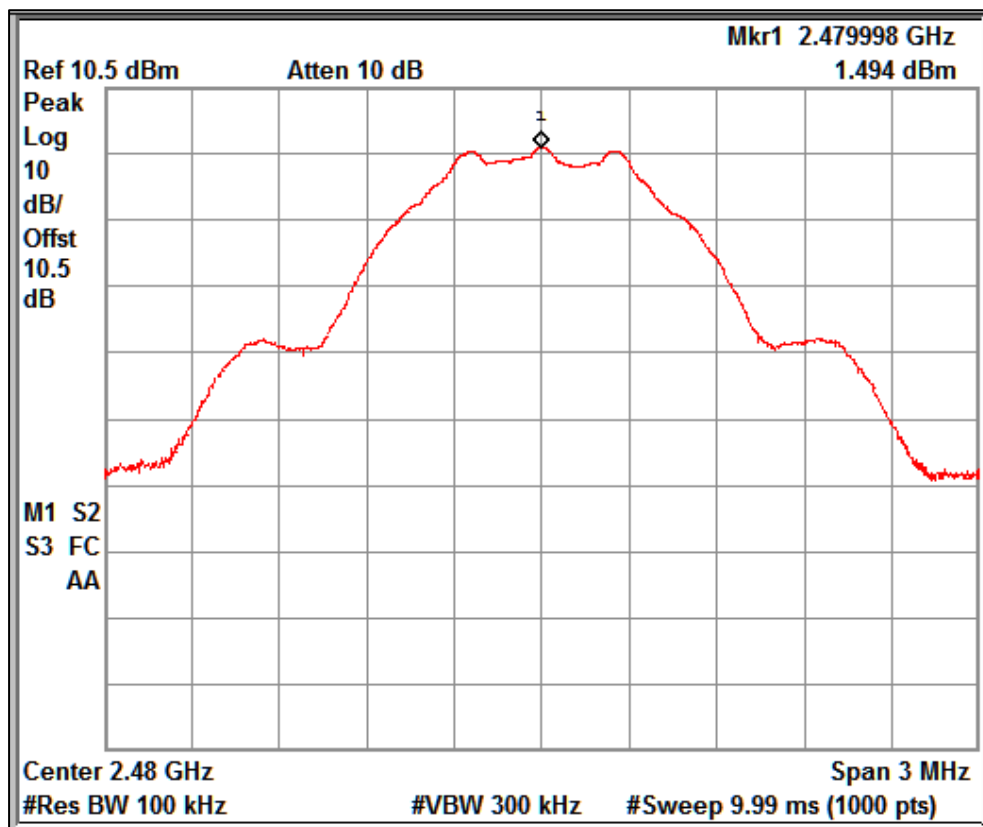


Reference Plot for Channel Frequency 2402MHz

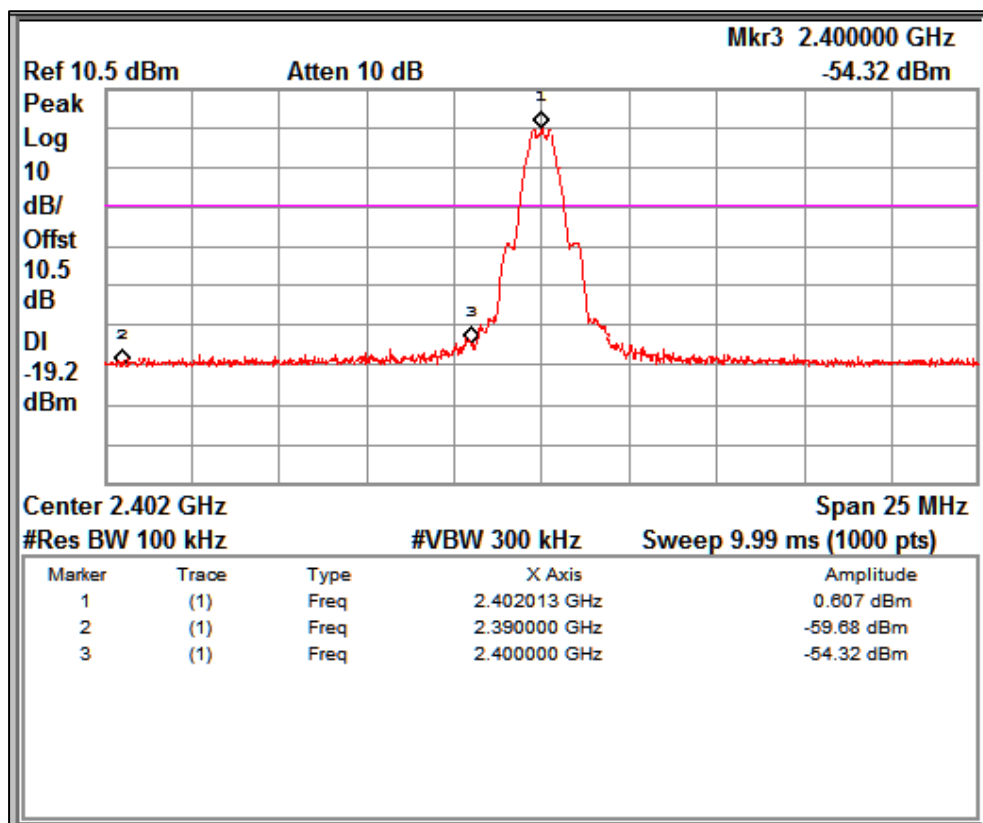
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Reference Plot for Channel Frequency 2480MHz

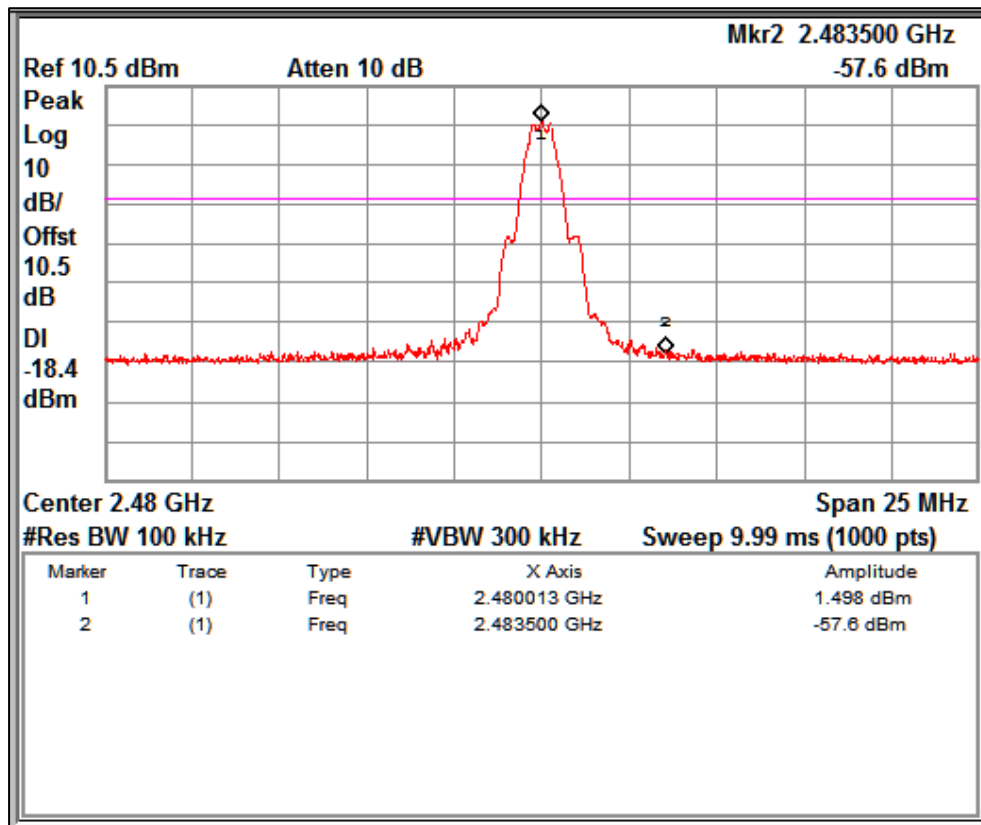


Channel Frequency: 2402MHz

Prüfbericht - Nr.:
Test Report No.:

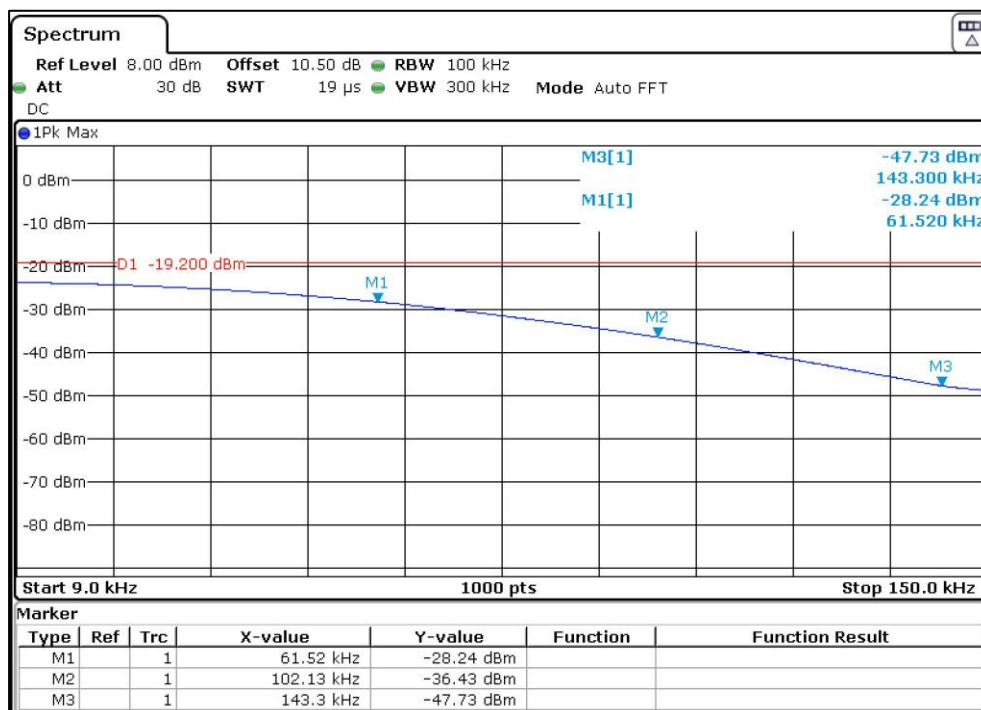
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Channel Frequency: 2480MHz

9.4.2 Out-Of-Band Emissions



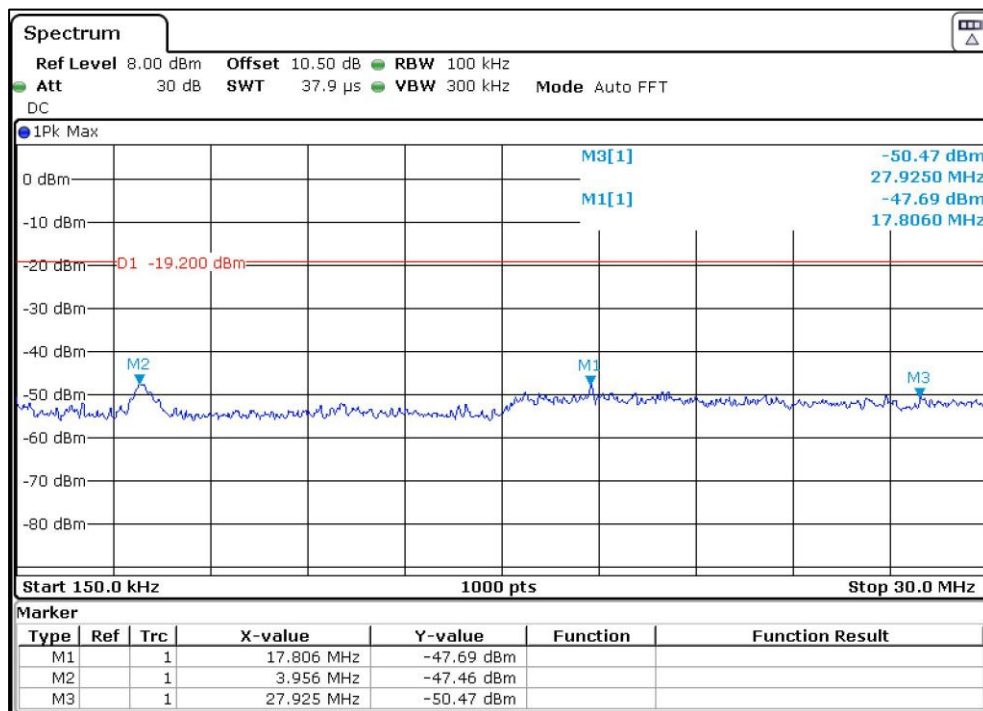
Channel Frequency 2402MHz

Frequency Range 9 kHz – 150 kHz

Prüfbericht - Nr.:
Test Report No.:

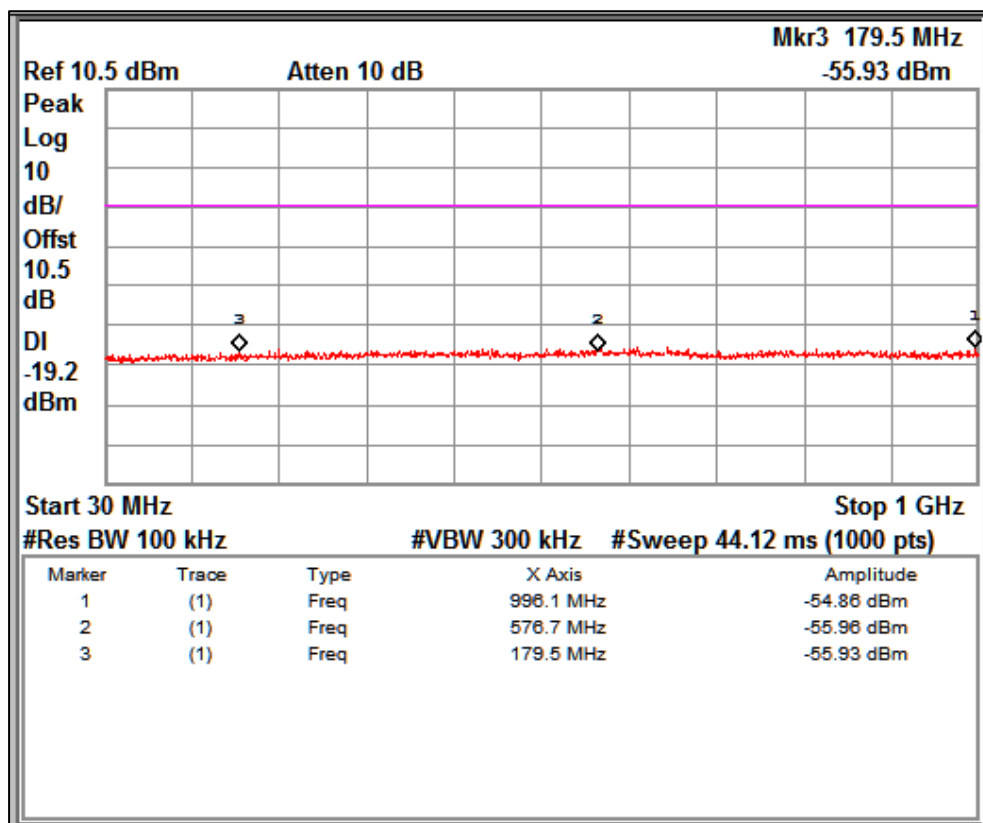
ULR-TC568821300000033F

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Channel Frequency 2402MHz

Frequency Range 150 kHz – 30 MHz



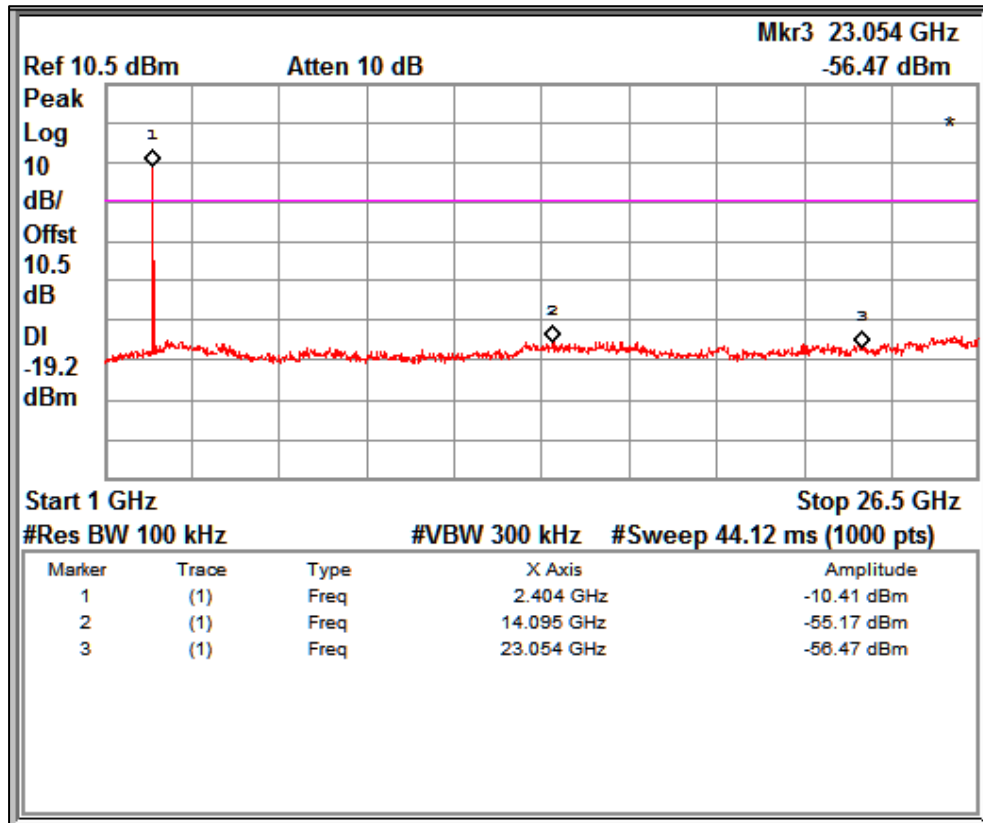
Channel Frequency 2402MHz

Frequency Range 30 MHz – 1GHz

Prüfbericht - Nr.:
Test Report No.:

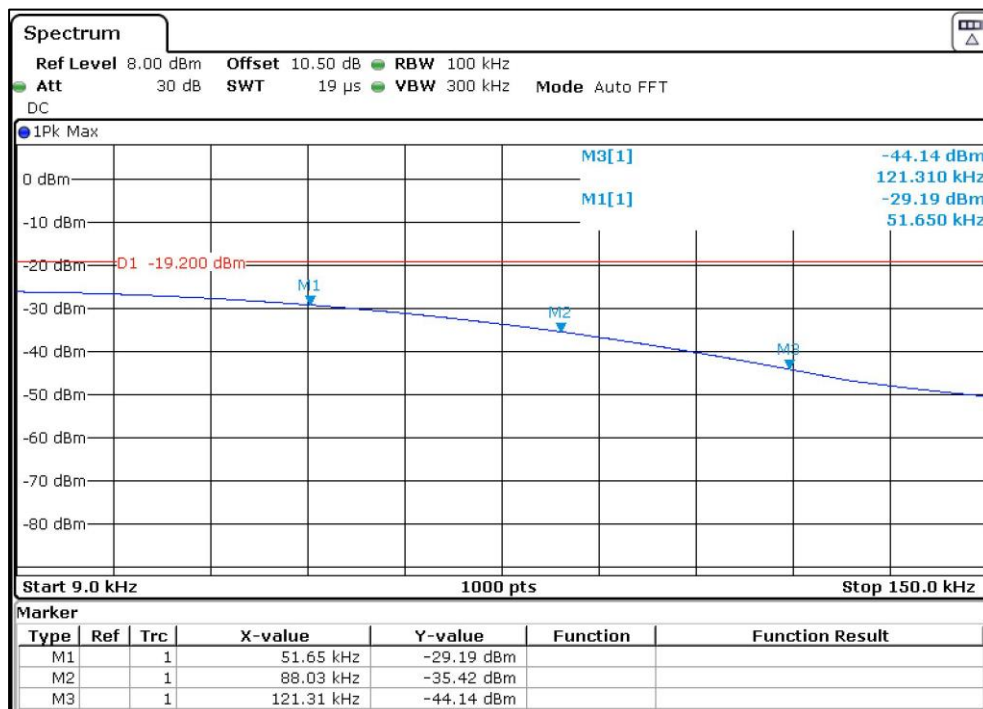
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Channel Frequency 2402MHz

Frequency Range 1 GHz – 26.5GHz



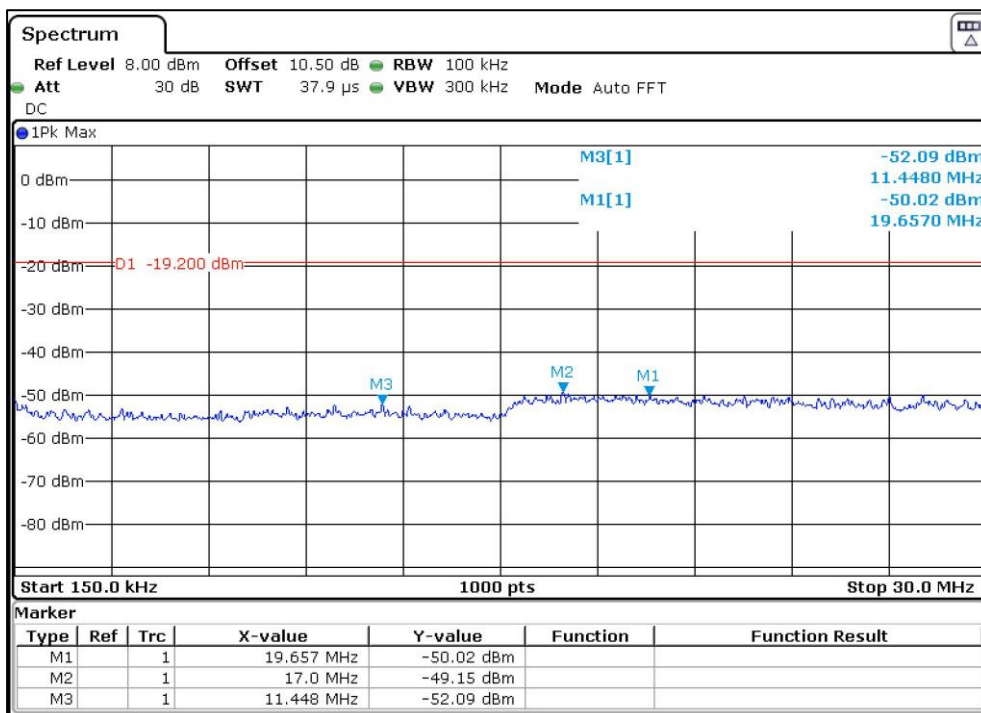
Channel Frequency 2440MHz

Frequency Range 9 kHz – 150 kHz

Prüfbericht - Nr.:
Test Report No.:

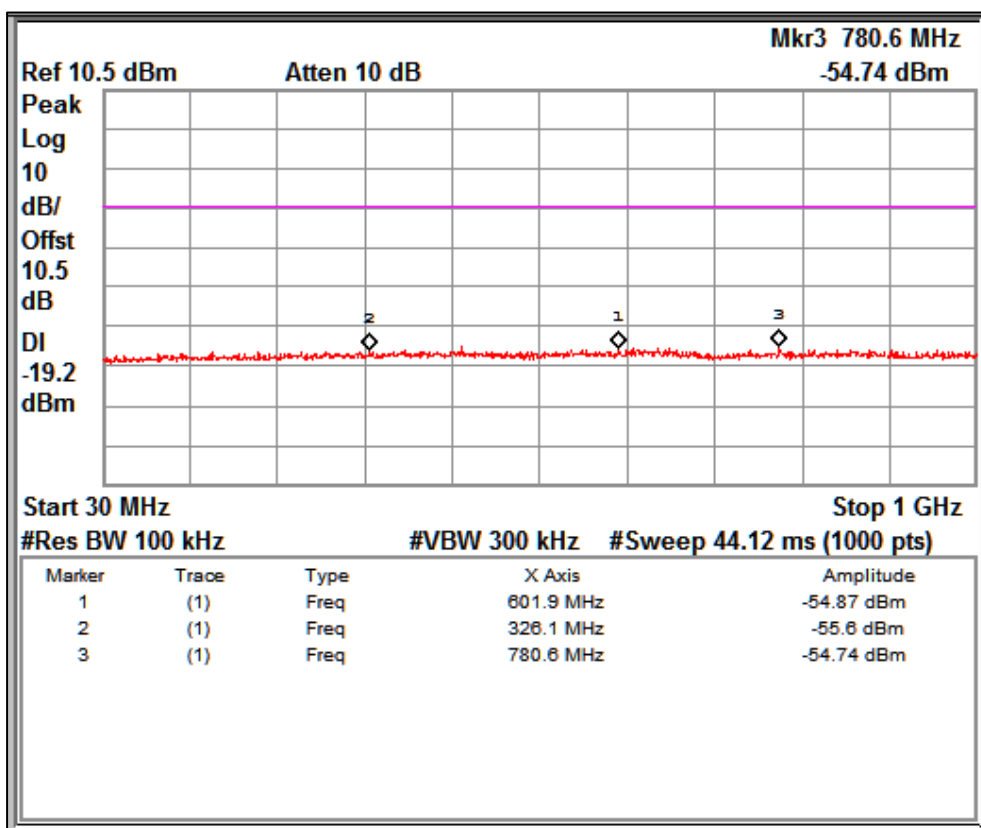
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Channel Frequency 2440MHz

Frequency Range 150 kHz – 30 MHz



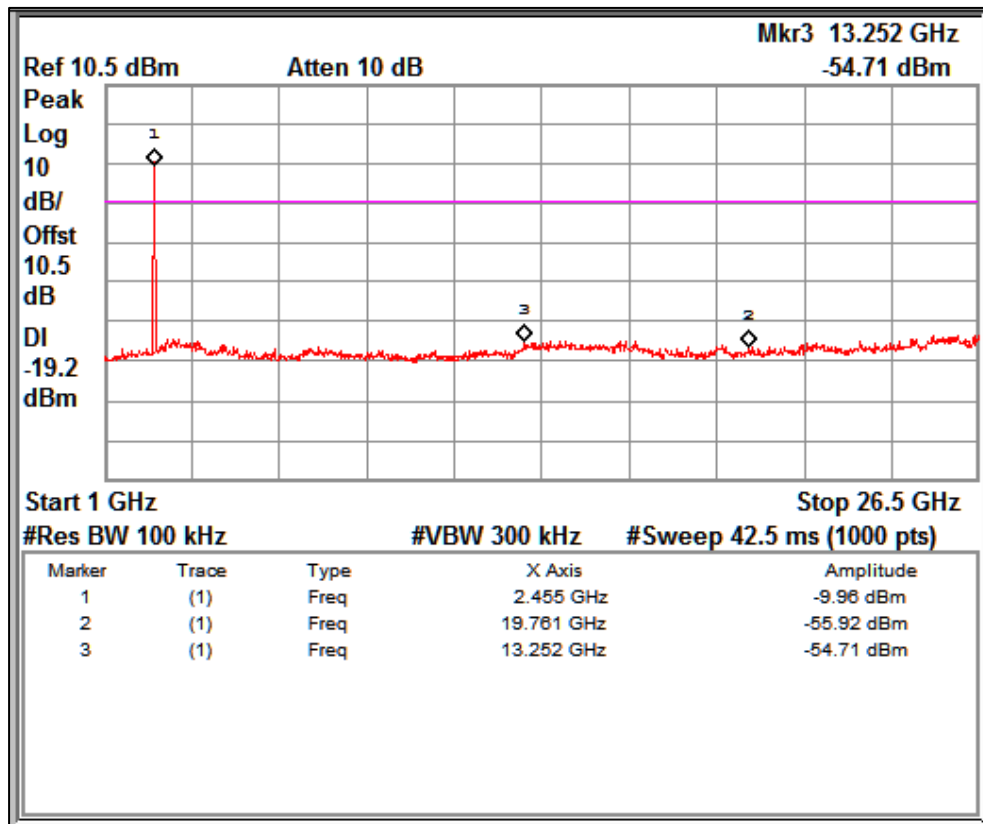
Channel Frequency 2440MHz

Frequency Range 30 MHz – 1GHz

Prüfbericht - Nr.:
Test Report No.:

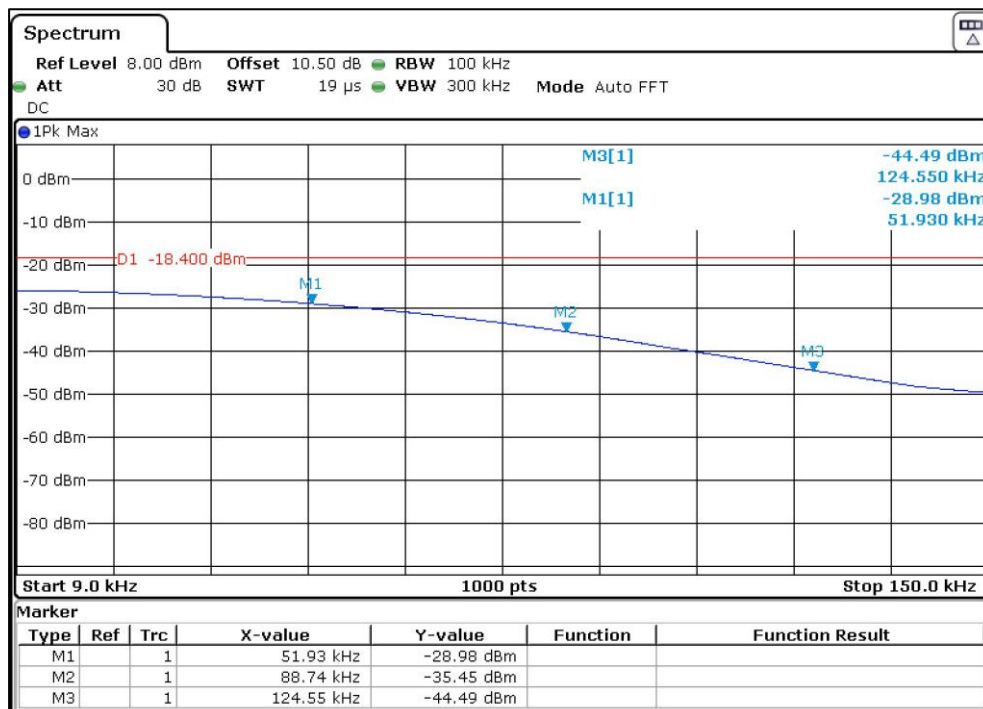
ULR-TC568821300000033F

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Channel Frequency 2440MHz

Frequency Range 1 GHz – 26.5GHz



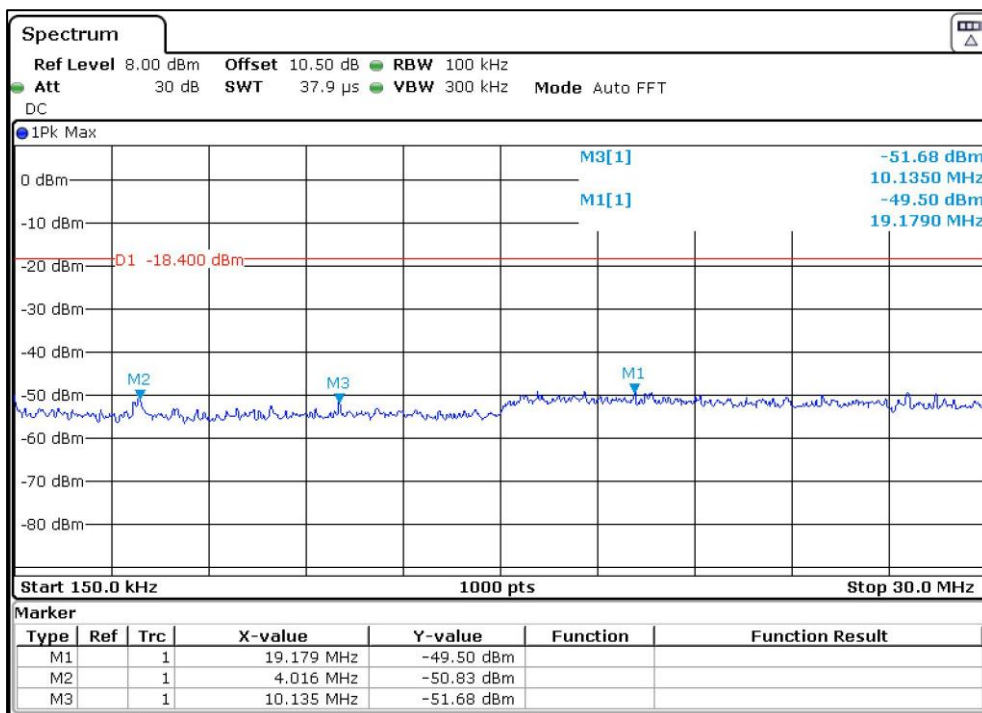
Channel Frequency 2480MHz

Frequency Range 9 kHz – 150 kHz

Prüfbericht - Nr.:
Test Report No.:

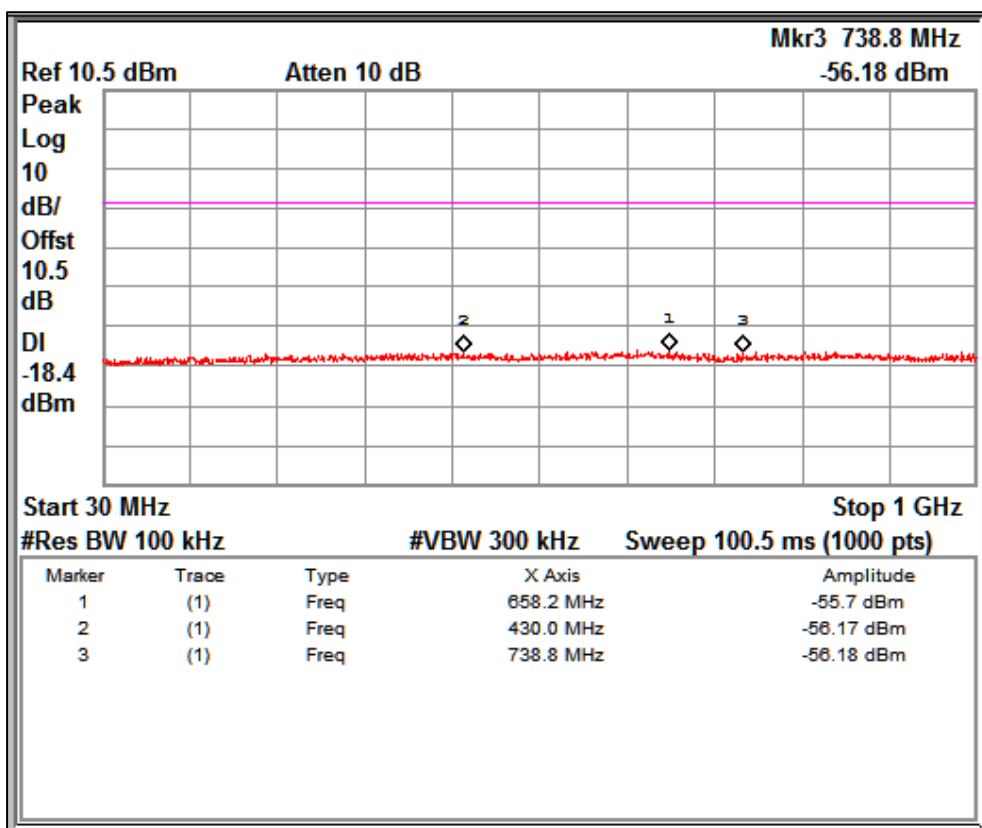
ULR-TC568821300000033F

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Channel Frequency 2480MHz

Frequency Range 150 kHz – 30 MHz



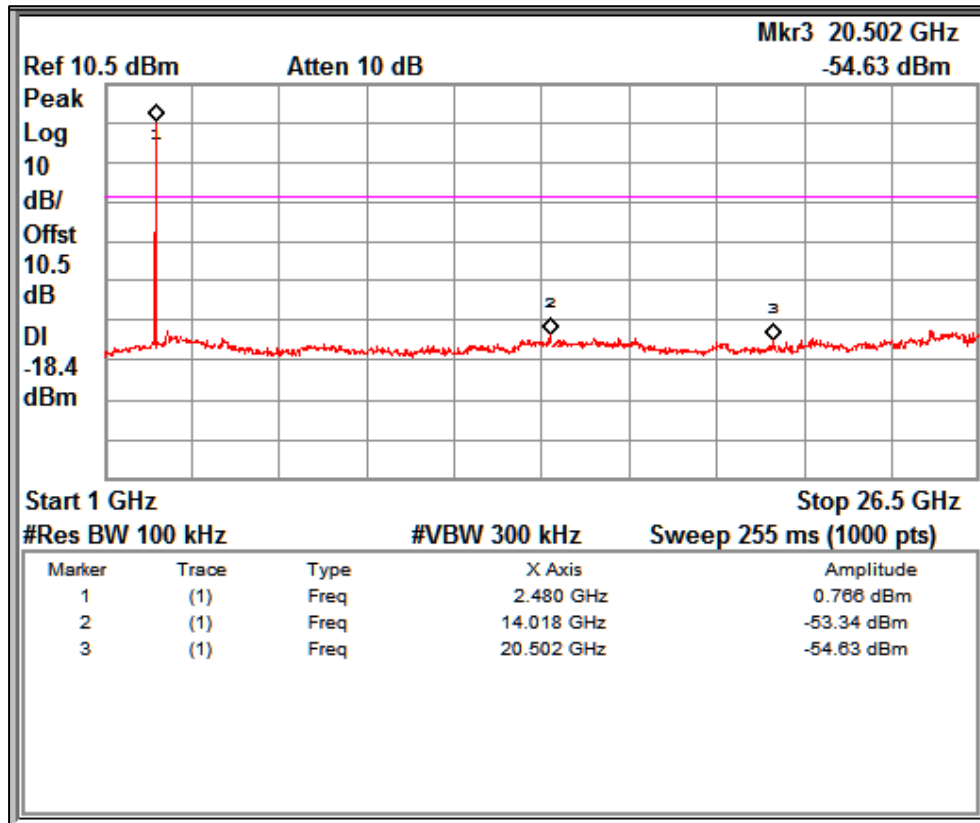
Channel Frequency 2480MHz

Frequency Range 30 MHz – 1GHz

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Channel Frequency 2480MHz

Frequency Range 1 GHz – 26.5GHz

9.5 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205) / IC RSS-GEN, Section 8.9 and 8.10
Test Method	ANSI C63.10
Measurement Location	Semi Anechoic Chamber 30MHz - 1 GHz Fully Anechoic Chamber 1 GHz - 40GHz
Measurement Bandwidth	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector	Refer remarks below
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test setup	Refer TEST METHODOLOGY

Table 8: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Conditions:

Temperature (Norm) = + 25 °C

Voltage = 5.0V AC to DC Adaptor

Relative humidity = 62 %

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Test results:

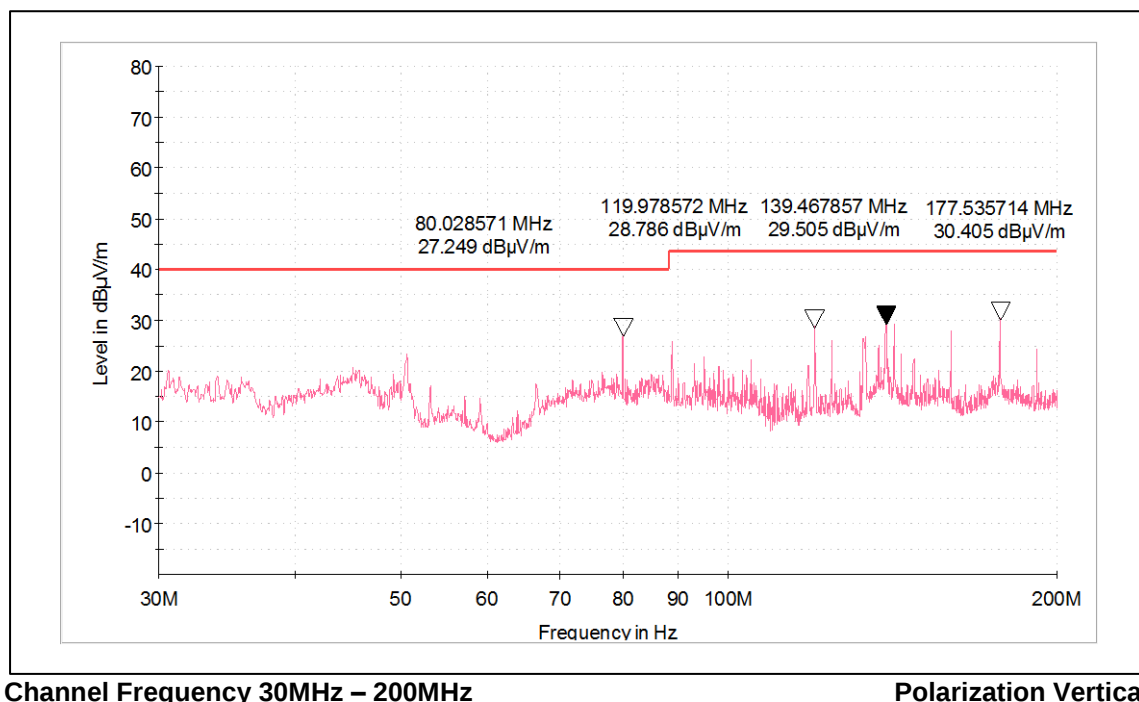
Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

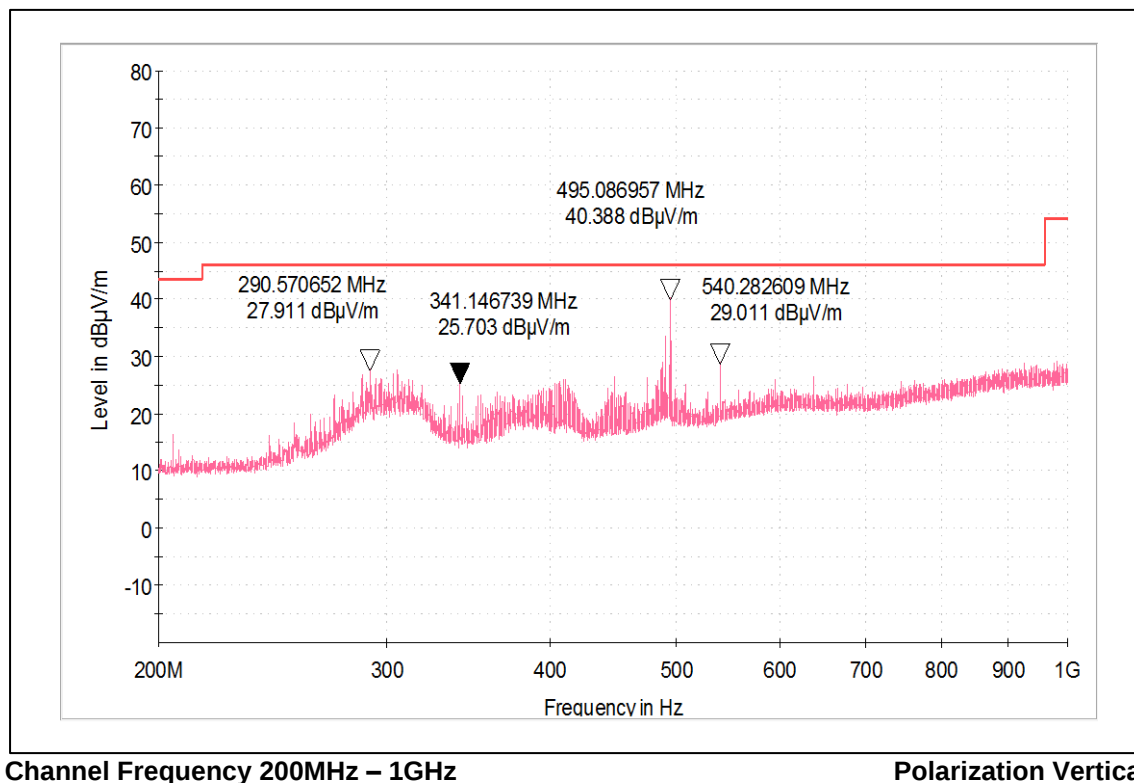
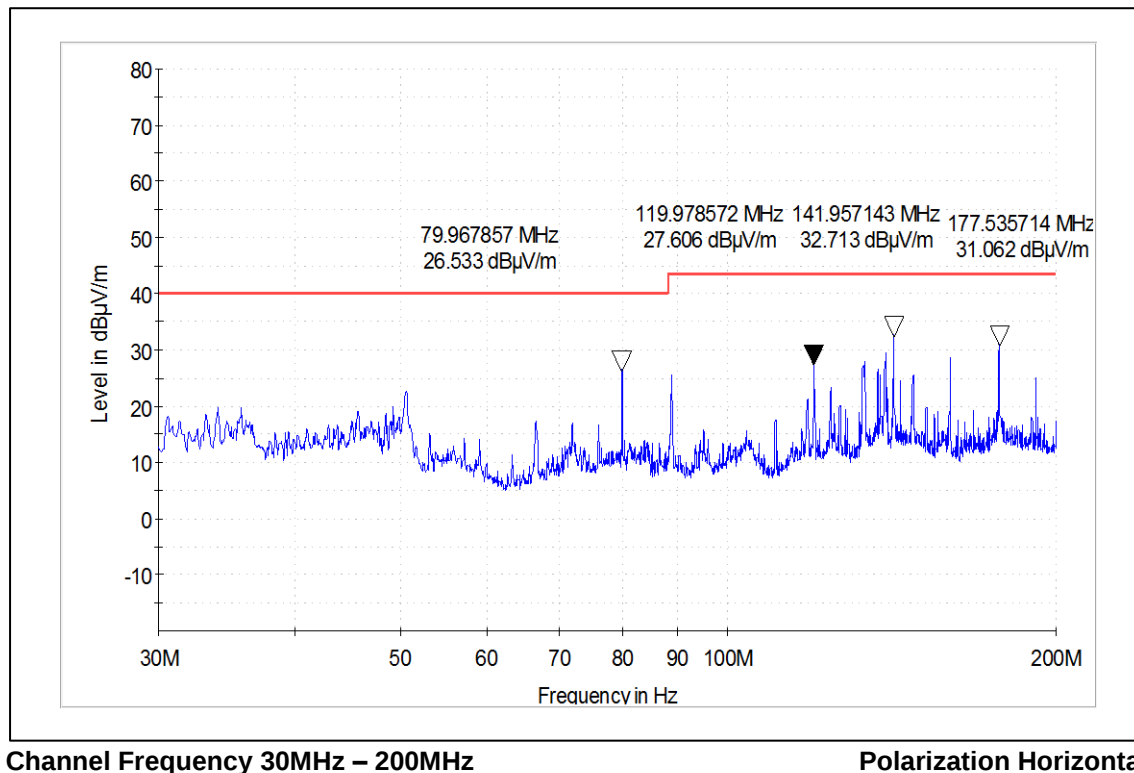
Test results for frequency range 9kHz – 30MHz

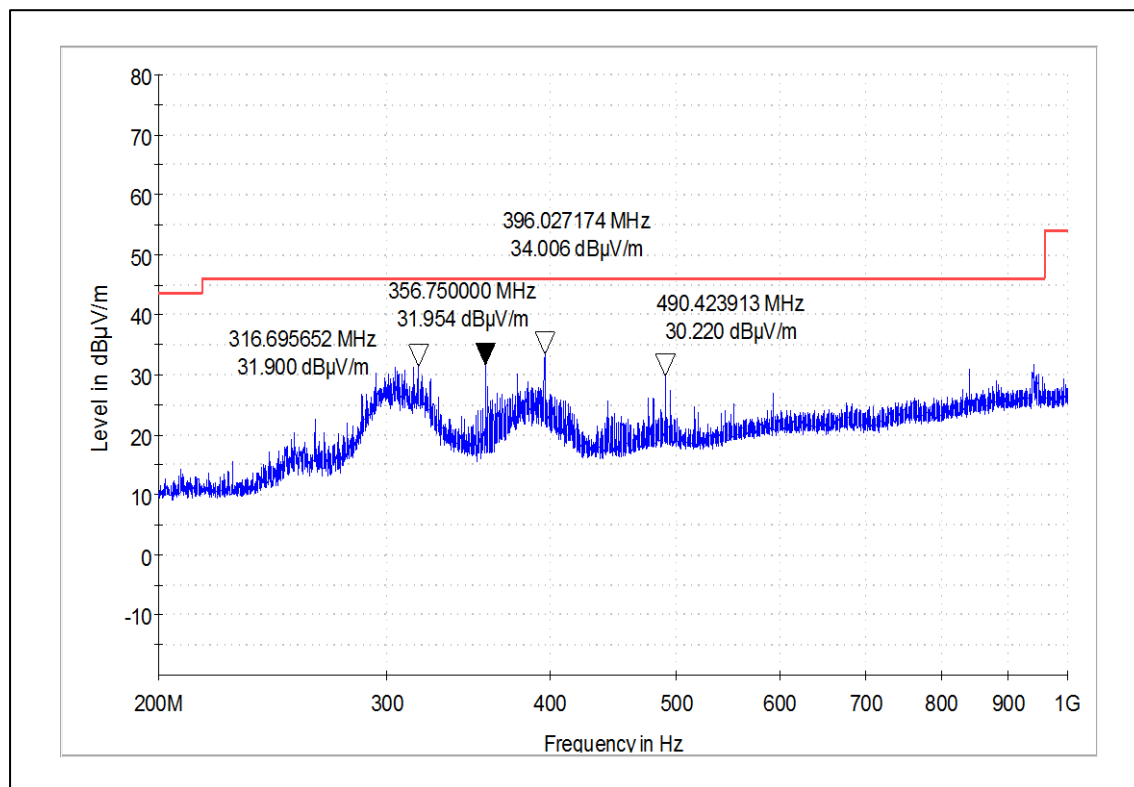
No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported

Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	80.02	27.24	40.00	-12.76
	119.97	28.78	43.50	-14.72
	139.46	29.50	43.50	-14.00
	177.53	30.40	43.50	-13.10
	290.57	27.91	46.00	-18.09
	341.14	25.70	46.00	-20.30
	495.08	40.38	46.00	-5.62
	540.28	29.01	46.00	-16.99
Horizontal	79.96	26.53	40.00	-13.47
	119.97	27.60	43.50	-15.90
	141.95	32.71	43.50	-10.79
	177.53	31.06	43.50	-12.44
	316.69	31.90	46.00	-14.10
	356.75	31.95	46.00	-14.05
	396.02	34.00	46.00	-12.00
	490.42	30.22	46.00	-15.78







Channel Frequency 200MHz – 1GHz

Polarization Horizontal

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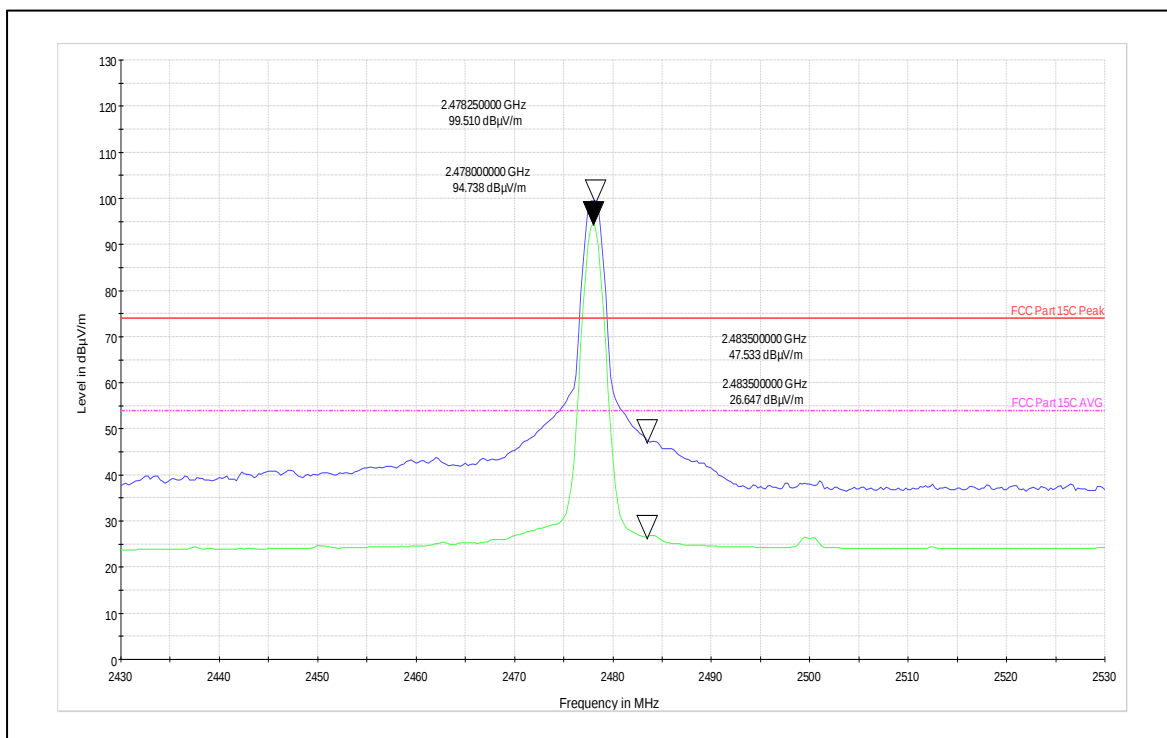
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Test results for the frequencies above 1GHz

Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	Vertical	2402(Pk)	97.18	-	-
		2402(Av)	92.45	-	-
		2390(Pk)	37.12	74*	-36.88
		2390(Av)	23.76	54*	-30.24
		4804(Pk)	40.26	74	-33.74
		4804(Av)	28.71	54	-25.29
		7206(Pk)	47.12	74	-26.88
		7206(Av)	34.70	54	-19.30
	Horizontal	2402(Pk)	87.21	-	-
		2402(Av)	82.42	-	-
		2390(Pk)	36.69	74*	-37.31
		2390(Av)	23.11	54*	-30.89
		4804(Pk)	40.66	74	-33.34
		4804(Av)	28.52	54	-25.48
		7206(Pk)	47.18	74	-26.82
		7206(Av)	34.75	54	-19.25
2440	Vertical	2440(Pk)	97.41	-	-
		2440(Av)	92.68	-	-
		4880(Pk)	41.30	74	-32.70
		4880(Av)	29.17	54	-24.83
		7320(Pk)	47.31	74	-26.69
		7320(Av)	35.06	54	-18.94
	Horizontal	2440(Pk)	91.18	-	-
		2440(Av)	86.46	-	-
		4880(Pk)	41.36	74	-32.64
		4880(Av)	28.85	54	-25.15
2480	Vertical	2480(Pk)	97.85	-	-
		2480(Av)	93.15	-	-
		4960(Pk)	40.81	74	-33.19
		4960(Av)	28.83	54	-25.17
		7440(Pk)	46.65	74	-27.35
		7440(Av)	34.83	54	-19.17
	Horizontal	2483.5(Pk)	40.96	74*	-33.04
		2483.5(Av)	23.29	54*	-30.71
		2480(Pk)	91.01	-	-
		2480(Av)	86.32	-	-
		4960(Pk)	41.40	74	-32.60
		4960(Av)	28.84	54	-25.16
	Horizontal	7440(Pk)	47.44	74	-26.56
		7440(Av)	34.88	54	-19.12

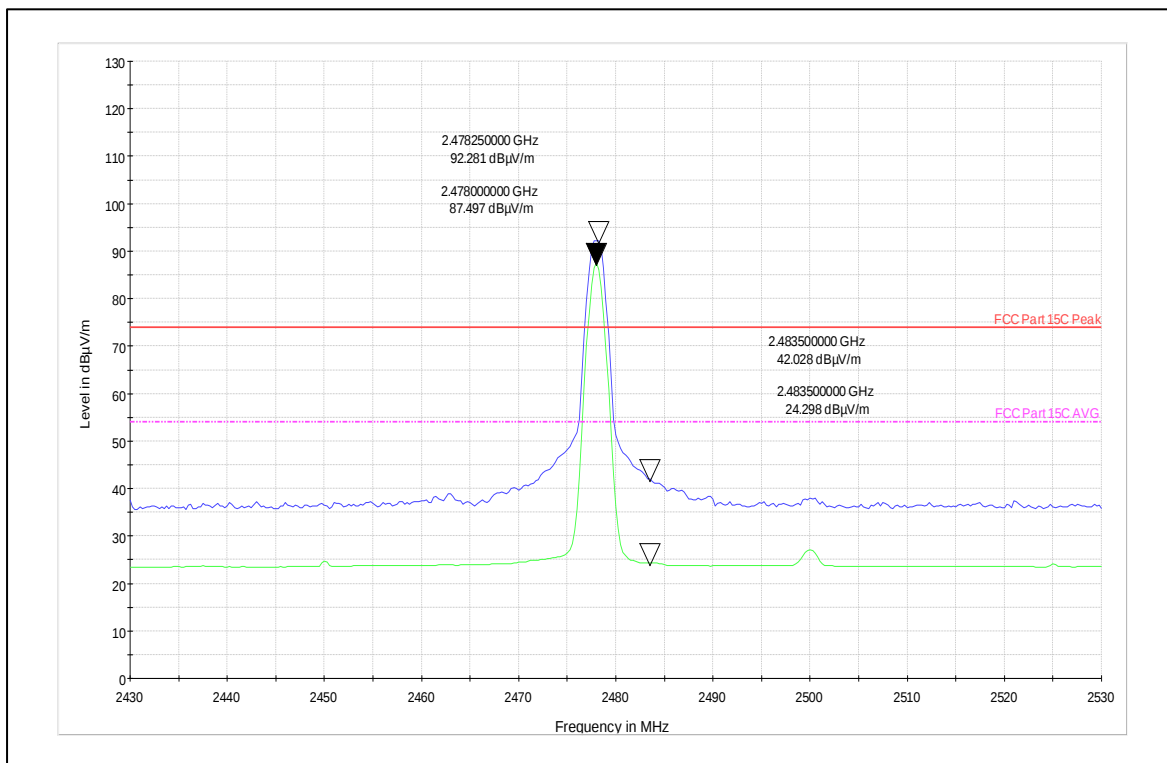
*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

Worst case Plots
Channel Frequency 2440MHz



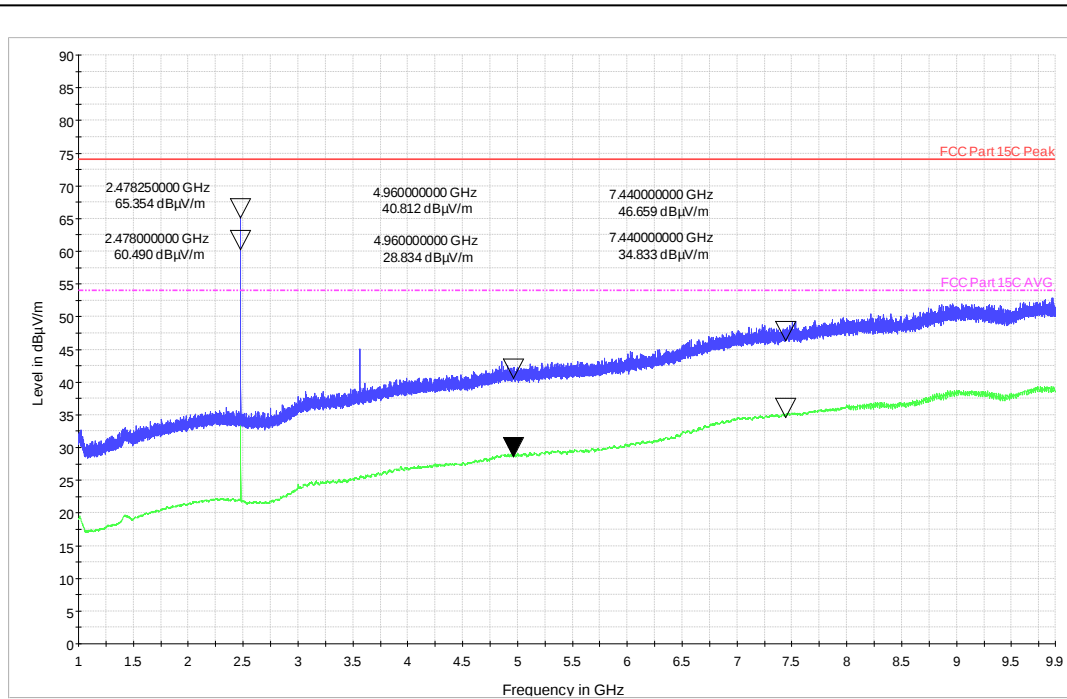
Channel Frequency: 2480MHz

Polarization: Vertical



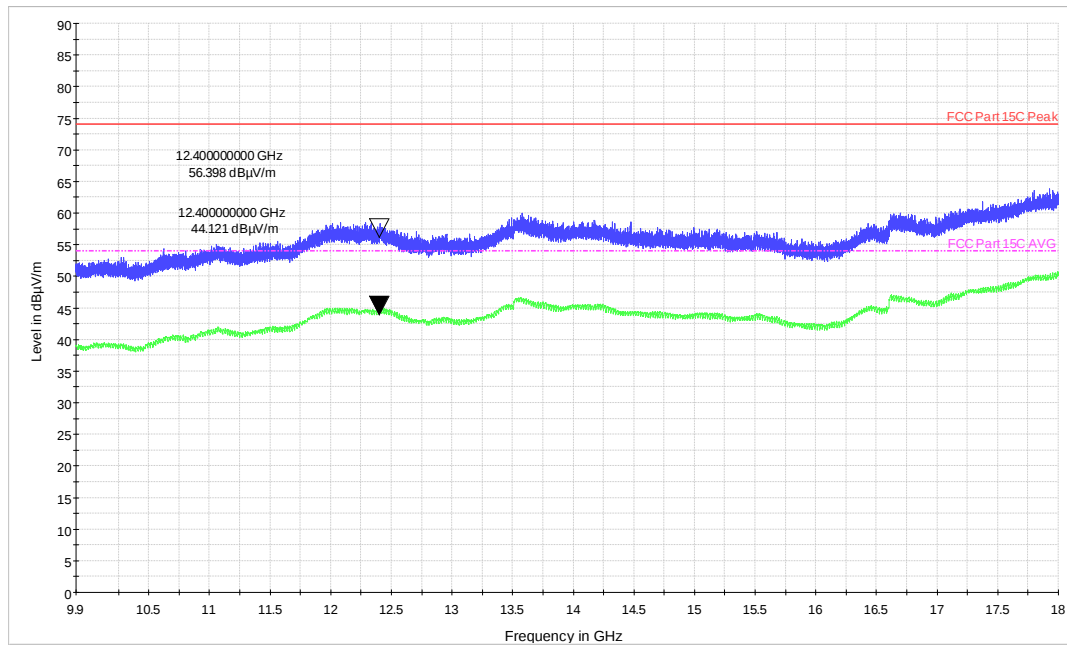
Channel Frequency: 2480MHz

Polarization: Horizontal



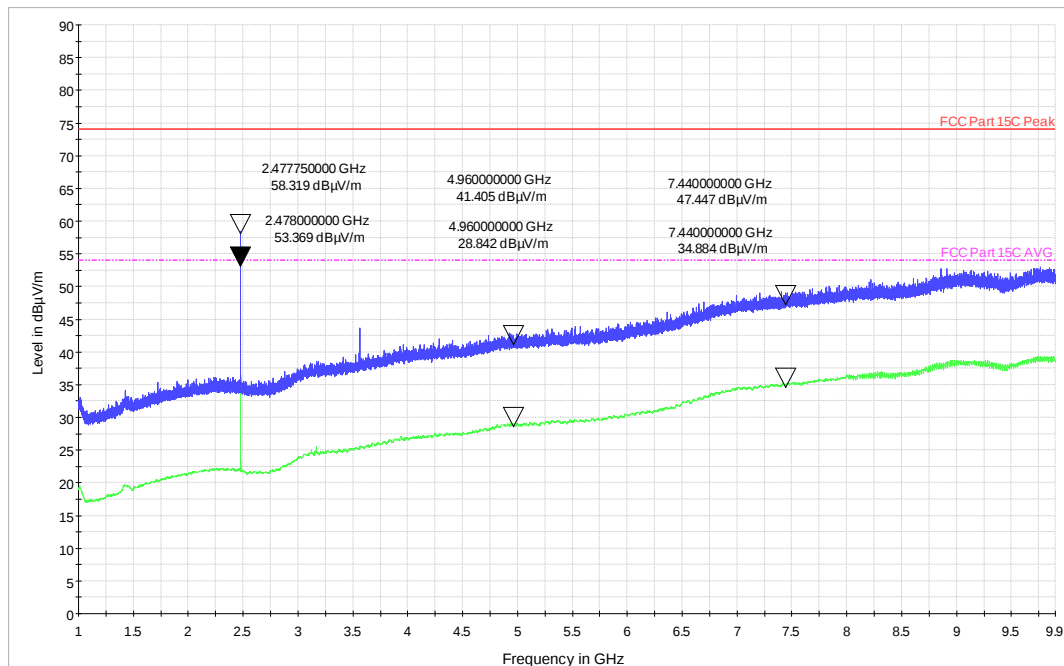
Channel Frequency: 1 - 9.9 GHz

Polarization: Vertical



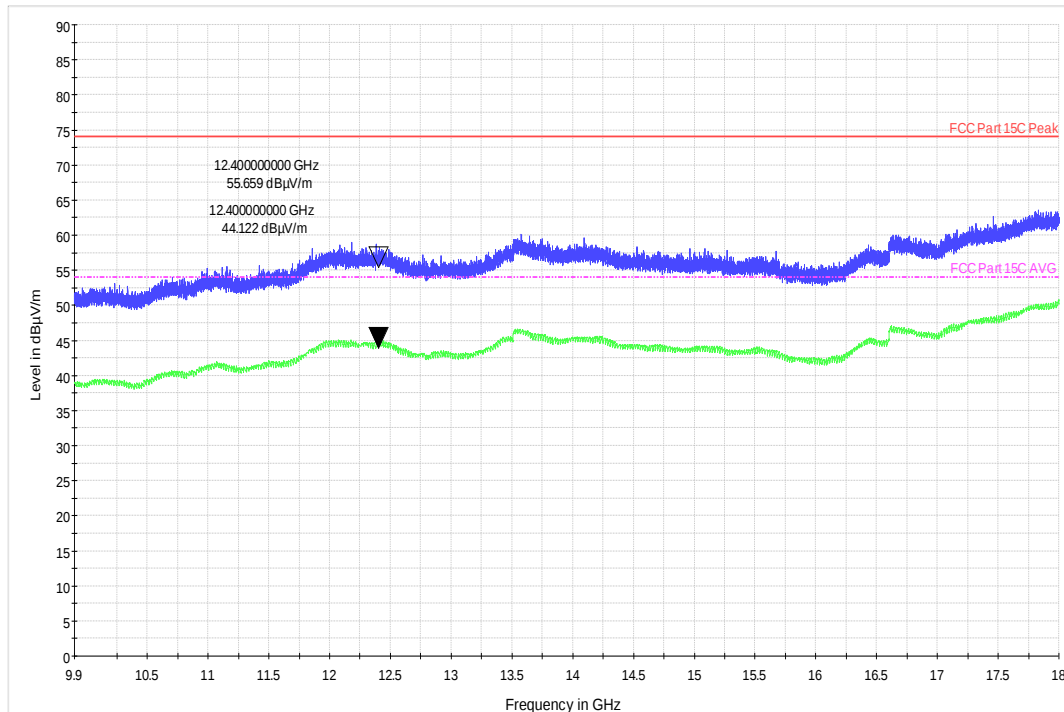
Channel Frequency: 9.9 - 18 GHz

Polarization: Vertical



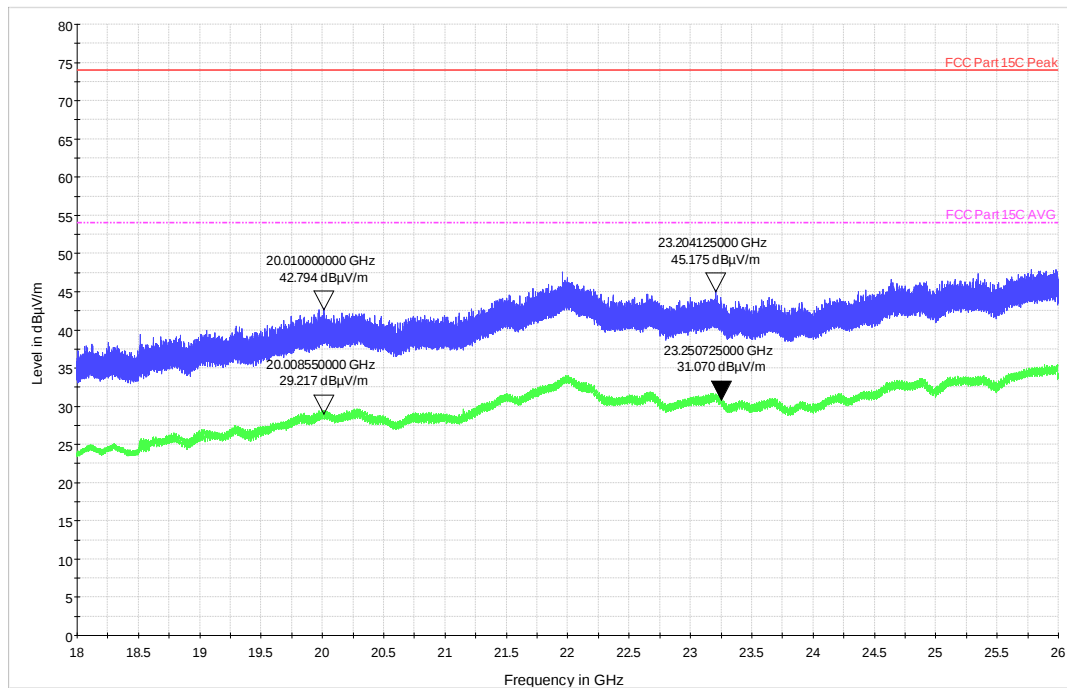
Channel Frequency: 1 - 9.9 GHz

Polarization: Horizontal



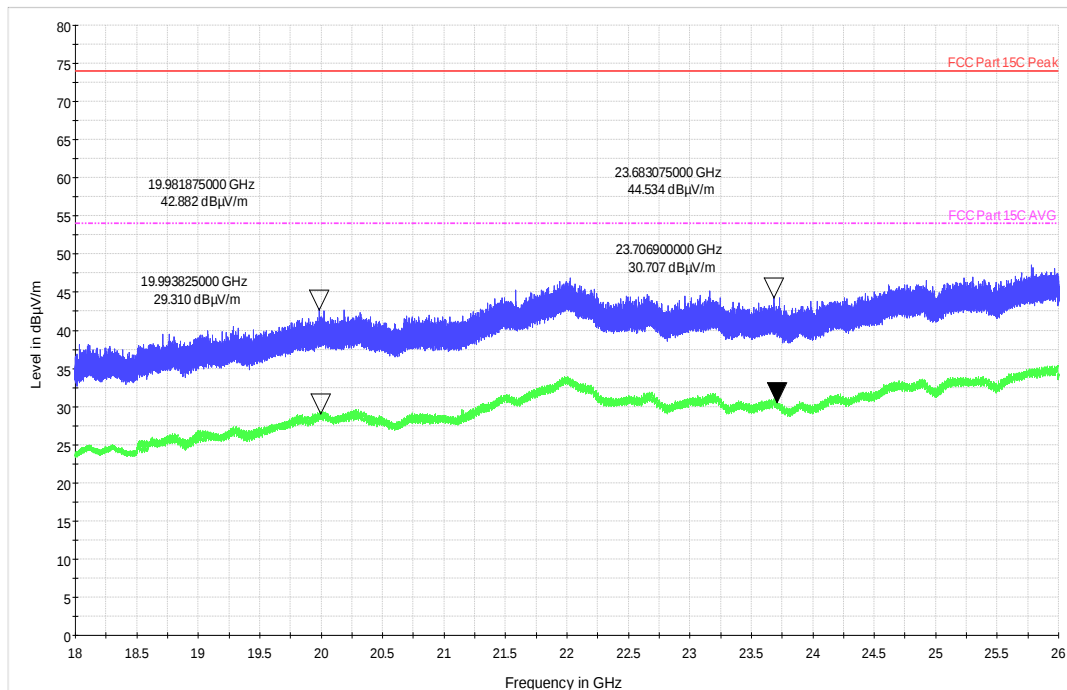
Channel Frequency: 9.9 - 18 GHz

Polarization: Horizontal



Channel Frequency: 18 - 40 GHz

Polarization: Vertical



Channel Frequency: 18 - 40 GHz

Polarization: Horizontal

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10 Conducted Spurious Emission Test on AC Power Line

Result

Pass

Test Specification : FCC Part 15 Section 15.207 / RSS Gen Issue 5 Section 8.8
Test Method : ANSI C 63.10-2013
Testing Location : Screened room
Measurement Bandwidth : 9kHz
Frequency Range : 150kHz – 30MHz
Supply Voltage : 110VAC,60Hz
Test Method : Refer TEST METHODOLOGY

***Note: The product has tested with AC to DC adapter**

Limits of section 15.207

Frequency of emission (MHz)	QP Limit (dBμV)	AV Limit (dBμV/m)
0.15 – 0.5	66 – 56*	56 – 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with the logarithm of the frequency

Test Conditions:

Normal Temperature = +24°C Voltage (V norm) = 110V AC (Through AC to DC Adapter) Relative Humidity = 64%

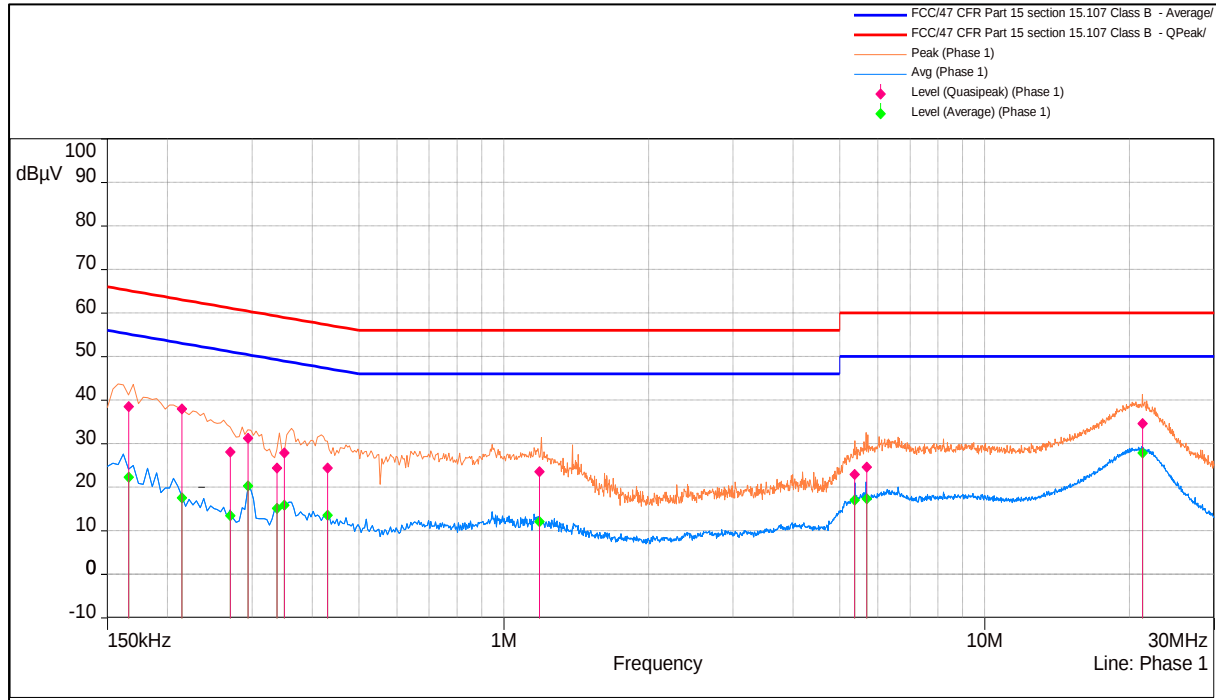
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Test result:

Power: 110V 60HZ_LINE



Line Graph

Quasipeak (23)										
Frequency (MHz)	SR	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Measuring time	RBW	Meas.Time	Comments	Correction (dB)
0.215	1	38.06	63.05	-24.99	Phase 1	1	9k	0.02	Pass	20.16
21.26465	1	34.62	60	-25.38	Phase 1	1	9k	0.02	Pass	20.14
0.1653	1	38.56	65.16	-26.6	Phase 1	1	9k	0.02	Pass	20.22
0.29535	1	31.3	60.41	-29.11	Phase 1	1	9k	0.02	Pass	20.06
0.3503	1	27.85	58.96	-31.11	Phase 1	1	9k	0.02	Pass	20.07
1.1863	1	23.61	56	-32.39	Phase 1	1	9k	0.02	Pass	20.43
0.4315	1	24.4	57.25	-32.85	Phase 1	1	9k	0.02	Pass	20.08
0.2715	1	28.12	61.12	-33	Phase 1	1	9k	0.02	Pass	20.09
0.33795	1	24.46	59.25	-34.79	Phase 1	1	9k	0.02	Pass	20.06
5.68075	1	24.6	60	-35.4	Phase 1	1	9k	0.02	Pass	20.54
5.3592	1	23	60	-37	Phase 1	1	9k	0.02	Pass	20.54

Prüfbericht - Nr.:
Test Report No.:

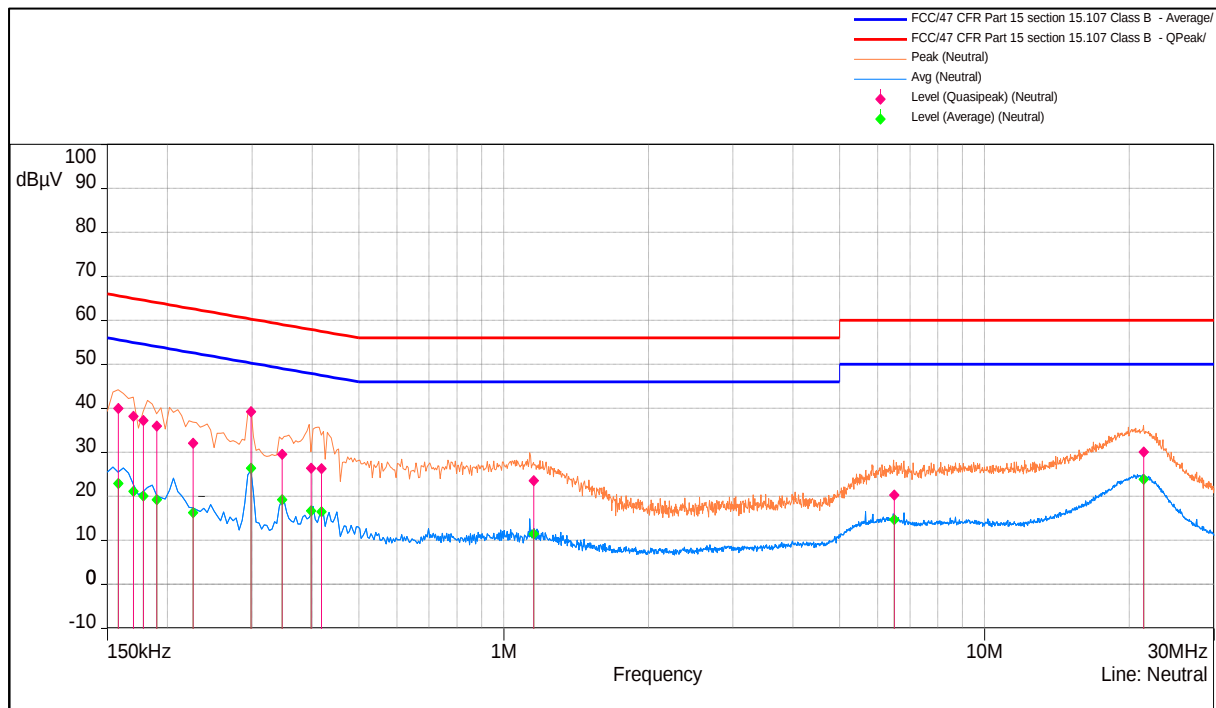
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Average (23)										
Frequency (MHz)	SR	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Measuring time	RBW	Meas.Time	Comments	Correction (dB)
0.1653	1	22.29	55.16	-32.87	Phase 1	1	9k	0.02	Pass	20.22
0.215	1	17.61	53.05	-35.44	Phase 1	1	9k	0.02	Pass	20.16
0.2715	1	13.51	51.12	-37.61	Phase 1	1	9k	0.02	Pass	20.09
0.29535	1	20.33	50.41	-30.08	Phase 1	1	9k	0.02	Pass	20.06
0.33795	1	15.19	49.25	-34.06	Phase 1	1	9k	0.02	Pass	20.06
0.3503	1	15.93	48.96	-33.03	Phase 1	1	9k	0.02	Pass	20.07
0.4315	1	13.57	47.25	-33.68	Phase 1	1	9k	0.02	Pass	20.08
1.1863	1	12.09	46	-33.91	Phase 1	1	9k	0.02	Pass	20.43
5.3592	1	17.01	50	-32.99	Phase 1	1	9k	0.02	Pass	20.54
5.68075	1	17.42	50	-32.58	Phase 1	1	9k	0.02	Pass	20.54
21.26465	1	27.9	50	-22.1	Phase 1	1	9k	0.02	Pass	20.14

Line Table

Power: 110V60HZ_NEUTRAL



Neutral Graph

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Quasipeak (23)										
Frequency (MHz)	SR	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Measuring time	RBW	Meas. Time	Comments	Correction (dB)
0.29665	2	39.24	60.3	-21.06	Neutral	1	9k	0.02	Pass	19.96
0.15675	2	39.99	65.57	-25.58	Neutral	1	9k	0.02	Pass	20.3
0.16805	2	38.24	64.96	-26.72	Neutral	1	9k	0.02	Pass	20.27
0.1795	2	37.25	64.58	-27.33	Neutral	1	9k	0.02	Pass	20.24
0.1916	2	36.02	64.04	-28.01	Neutral	1	9k	0.02	Pass	20.21
0.3442	2	29.58	59.06	-29.47	Neutral	1	9k	0.02	Pass	20.01
21.4065	2	30.08	60	-29.92	Neutral	1	9k	0.02	Pass	20.43
0.2262	2	32.15	62.6	-30.45	Neutral	1	9k	0.02	Pass	20.13
0.41605	2	26.37	57.49	-31.12	Neutral	1	9k	0.02	Pass	20.12
0.39895	2	26.43	57.9	-31.47	Neutral	1	9k	0.02	Pass	20.09
1.15335	2	23.55	56	-32.45	Neutral	1	9k	0.02	Pass	20.51
6.4893	2	20.28	60	-39.72	Neutral	1	9k	0.02	Pass	20.69

Average (23)										
Frequency (MHz)	SR	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Measuring time	RBW	Meas. Time	Comments	Correction (dB)
0.29665	2	26.41	50.3	-23.89	Neutral	1	9k	0.02	Pass	19.96
21.4065	2	23.85	50	-26.15	Neutral	1	9k	0.02	Pass	20.43
0.3442	2	19.24	49.06	-29.82	Neutral	1	9k	0.02	Pass	20.01
0.41605	2	16.58	47.49	-30.91	Neutral	1	9k	0.02	Pass	20.12
0.39895	2	16.71	47.9	-31.19	Neutral	1	9k	0.02	Pass	20.09
0.15675	2	22.95	55.57	-32.62	Neutral	1	9k	0.02	Pass	20.3
0.16805	2	21.18	54.96	-33.78	Neutral	1	9k	0.02	Pass	20.27
0.1795	2	20.11	54.58	-34.47	Neutral	1	9k	0.02	Pass	20.24
1.15335	2	11.44	46	-34.56	Neutral	1	9k	0.02	Pass	20.51
0.1916	2	19.27	54.04	-34.76	Neutral	1	9k	0.02	Pass	20.21
6.4893	2	14.7	50	-35.3	Neutral	1	9k	0.02	Pass	20.69
0.2262	2	16.31	52.6	-36.29	Neutral	1	9k	0.02	Pass	20.13

Neutral Table

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12 Power level used for testing

Wi-Fi 2.4GHz

802.11b_1Mbps	
Channel Frequency (MHz)	Power level
2412	17.5
2437	19
2462	19
802.11b_11Mbps	
Channel Frequency (MHz)	Power level
2412	17.5
2437	19
2462	19
802.11g_6Mbps	
Channel Frequency (MHz)	Power level
2412	13.5
2437	17
2462	14
802.11g_54Mbps	
Channel Frequency (MHz)	Power level
2412	13.5
2437	16.5
2462	14

802.11n_HT 20_MCS0	
Channel Frequency (MHz)	Power level
2412	16
2437	16
2462	16
802.11n_HT 20_MCS7	
Channel Frequency (MHz)	Power level
2412	16
2437	16
2462	14
802.11n_40_MCS0	
Channel Frequency (MHz)	Power level
2422	15
2437	15
2452	15
802.11n_40_MCS7	
Channel Frequency (MHz)	Power level
2422	15
2437	15
2452	13

BLE 2.4GHz

1Mbps	
Channel Frequency (MHz)	Power level
2402	4
2440	4
2480	4

*****END OF TEST REPORT*****