

9.7 Band Edge

9.7.1 Test Requirement:

FCC CFR 47 Rule Part 15.247 (d)

ISED RSS-247 [5.5]

9.7.2 Test Method:

Measurements were performed according to the procedure defined in ANSI C63.10:2013 Section 7.8.

Spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation

RBW = 100 kHz

VBW = 300 kHz

Sweep = Auto

Detector function = Peak

Trace = Max Hold

The trace was allowed to stabilize. The marker was set on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. The delta marker function was set and the marker-to-peak function moved to the peak of the in-band emission.

With the same instrument settings, the hopping function of the EUT was enabled and the trace was allowed to stabilize. The same procedure listed above was used to determine if any spurious emissions caused by the hopping function complied with the specified limit.

Sample Calculations:

Cable losses are accounted for directly on the spectrum analyzer.

Corrected Amplitude: Amplitude (Analyzer level) + CL (Cable losses) – Amplifier Gain = -25 dBm + 5 dB = -20dBm.

9.7.3 Limits:

The maximum level is at least 20dBc with measurements taken with the EUT in pseudorandom hopping mode and with hopping mode disabled.

9.7.4 Test Results:

Pass.

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9.7.5 Test Data:

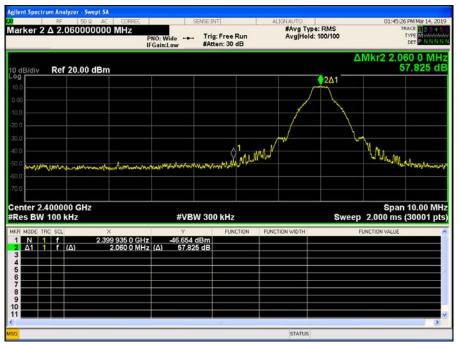


Figure 9-30 Low Channel Band edge: 1-DH5 Mode (Hopping disabled)

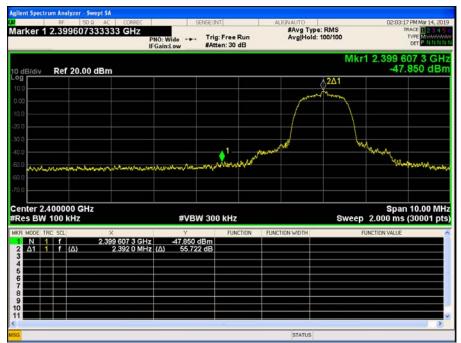


Figure 9-31 Low Channel Band edge: 2-DH5 Mode (Hopping disabled)



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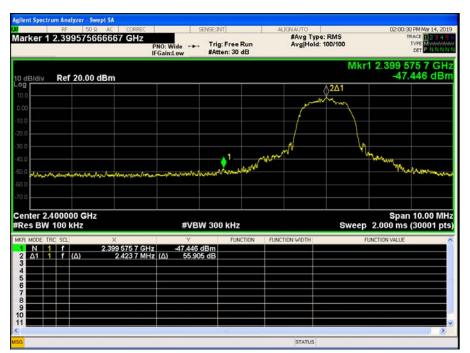


Figure 9-32 Low Channel Band edge: 3-DH5 Mode (Hopping disabled)

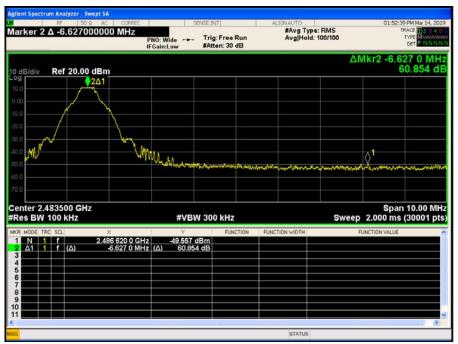
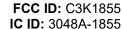


Figure 9-33 High Channel Band edge: 1-DH5 Mode (Hopping disabled)

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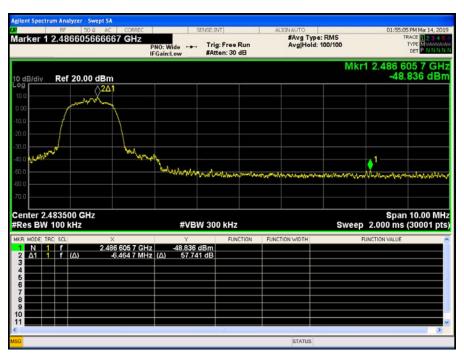


Figure 9-34 High Channel Band edge: 2-DH5 Mode (Hopping disabled)

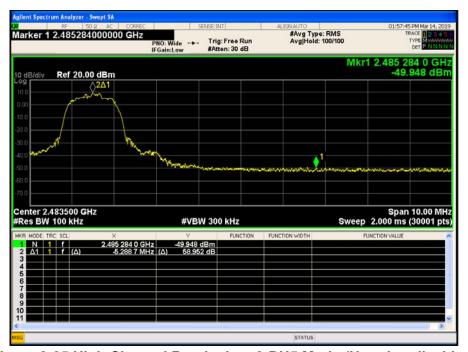


Figure 9-35 High Channel Band edge: 3-DH5 Mode (Hopping disabled)

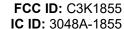






Figure 9-36 Low Channel Band edge 1-DH5 Mode (Hopping enabled)



Figure 9-37 Low Channel Band edge 2-DH5 Mode (Hopping enabled)

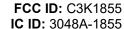






Figure 9-38 Low Channel Band edge 3-DH5 Mode (Hopping enabled)

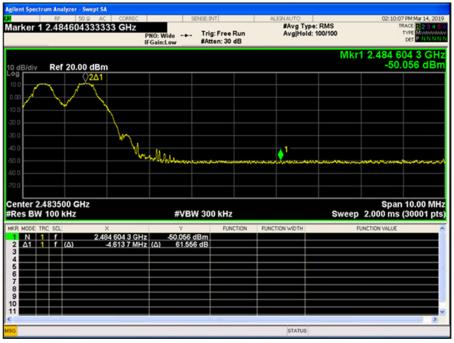
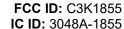


Figure 9-39 High Channel Band 1-DH5 Mode (Hopping enabled)





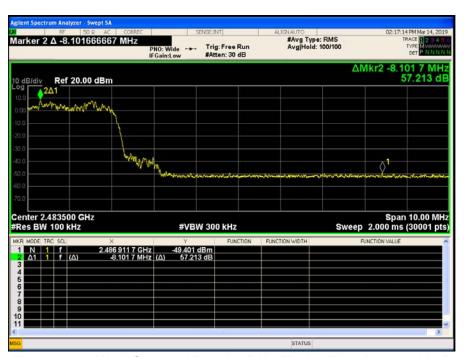


Figure 9-40 High Channel Band 2-DH5 Mode (Hopping enabled)



Figure 9-41 High Channel Band 3-DH5 Mode (Hopping enabled)



9.8 Conducted Spurious Emissions

9.8.1 Test Requirement:

FCC CFR 47 Rule Part 15.247 (d)

ISED RSS-247 [5.5]

9.8.2 Test Method:

Measurements were performed according to the procedure defined in ANSI C63.10:2013 Section 7.8.

Spectrum analyzer settings:

Span = 30 M- 12 GHz; 12 G- 25 GHz

RBW = 1 MHz

VBW = 3 MHz

Sweep Time = Auto

Sweep Points= 30000

Detector function = Peak

Trace = Max Hold

If an emission is found within 3dB of the limit or exceeding the limit, reduce the RBW to 100 kHz for the final measurements.

The trace was allowed to stabilize. The marker was set on the peak of any spurious emission recorded. The level displayed had to comply with the limit specified.

Sample Calculations:

Cable losses are accounted for directly on the spectrum analyzer.

Corrected Amplitude: Amplitude (Analyzer level) + CL (Cable losses) = -25 dBm + 5 dB = -20dBm.

9.8.3 Limits:

The maximum spurious emission shall be at least 20dBc.

9.8.4 Test Results:

Pass

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9.8.5 Test Data:

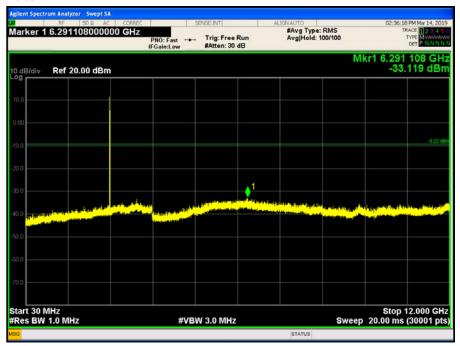


Figure 9-42 Conducted Spurious Emissions 30-12000 MHz: 1-DH5 Mode (Ch. 0)



Figure 9-43 Conducted Spurious Emissions 12-25 GHz: 1-DH5 Mode (Ch. 0)



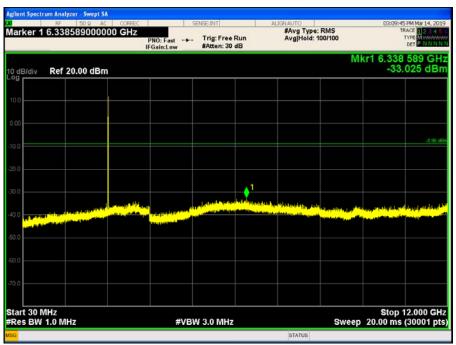


Figure 9-44 Conducted Spurious Emissions 30-12000 MHz: 1-DH5 Mode (Ch. 39)



Figure 9-45 Conducted Spurious Emissions 12-25 GHz: 1-DH5 Mode (Ch. 39)





Figure 9-46 Conducted Spurious Emissions 30-12000 MHz: 1-DH5 Mode (Ch. 78)



Figure 9-47 Conducted Spurious Emissions 12-25 GHz: 1-DH5 Mode (Ch. 78)





Figure 9-48 Conducted Spurious Emissions 30-12000 MHz: 2-DH5 Mode (Ch. 0)



Figure 9-49 Conducted Spurious Emissions 12-25 GHz: 2-DH5 Mode (Ch. 0)



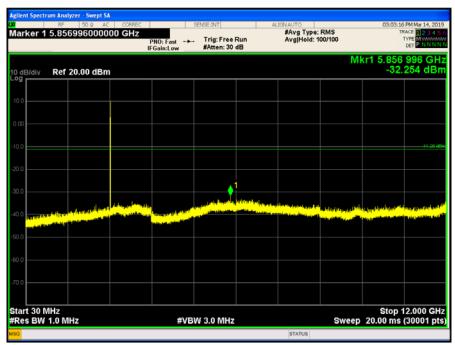


Figure 9-50 Conducted Spurious Emissions 30-12000 MHz: 2-DH5 Mode (Ch. 39)



Figure 9-51 Conducted Spurious Emissions 12-25 GHz: 2-DH5 Mode (Ch. 39)





Figure 9-52 Conducted Spurious Emissions 30-12000 MHz: 2-DH5 Mode (Ch. 78)



Figure 9-53 Conducted Spurious Emissions 12-25 GHz: 2-DH5 Mode (Ch. 78)





Figure 9-54 Conducted Spurious Emissions 30-12000 MHz: 3-DH5 Mode (Ch. 0)



Figure 9-55 Conducted Spurious Emissions 12-25 GHz: 3-DH5 Mode (Ch. 0)



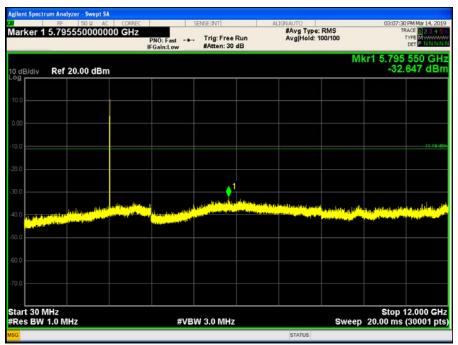


Figure 9-56 Conducted Spurious Emissions 30-12000 MHz: 3-DH5 Mode (Ch. 39)



Figure 9-57 Conducted Spurious Emissions 12-25 GHz: 3-DH5 Mode (Ch. 39)





Figure 9-58 Conducted Spurious Emissions 30-12000 MHz: 3-DH5 Mode (Ch. 78)



Figure 9-59 Conducted Spurious Emissions 12-25 GHz: 3-DH5 Mode (Ch. 78)



9.9 Radiated Spurious and Band Edge Emissions

9.9.1 Test Requirement:

FCC CFR 47 Rule Part 15.247 (d)

ISED RSS-247 [5.5] and RSS GEN [8.9]

9.9.2 Test Method:

Measurements were performed according to the procedure defined in KDB 558074 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 V04 and ANSI C63.10 2013.

Radiated spurious measurements are made from 30MHz to the 10th harmonic of the fundamental frequency of the transmitter. Measurements below 30MHz were not performed since the radio circuitry of the EUT does not contain clocks below 30MHz. The limit for radiated spurious emissions is per 15.209 and RSS-247 [5.5]. Additionally, emissions found in the restricted bands listed in 15.205 and RSS-Gen were tested for compliance per limits in 15.209 and RSS-Gen.

The EUT was tested near the low, middle and high channels of operation in each sub band. Guidelines in ANSI C63.10:2013 were followed with respect to maximizing the emissions.

A pre-amp and a high pass filter were required for this test, in order to provide the measuring system with sufficient sensitivity. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength.

Both horizontal and vertical antenna polarizations were investigated. Worst case maximized data is shown in this test report.

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Restricted Band-Edge Emissions

Peak Measurements

Spectrum Analyzer Settings:

RBW= 1 MHz VBW= 3 MHz

Trace Mode: Peak Detector (Max Hold)

Span= 2310 - 2500 MHz

Sweep Points = 401

Sweep Time = Auto

Average Measurements (Reduced Video Bandwidth Method)

Spectrum Analyzer Settings:

RBW= 1 MHz

VBW= 2 kHz

VBW Mode = Linear

Trace Mode: Peak Detector (Max Hold)

Span= 2310 - 2500 MHz

Sweep Points = 401

Sweep Time = Auto

Sweep Count = 200

Radiated Spurious Emissions

Spectrum Analyzer Settings:

30 MHz- 1 GHz:

RBW= 120 kHz

VBW ≥ 3 X RBW

Trace Mode: Peak Detector (Max Hold). Final measurements performed using QP Detector.

Span= 30 MHz- 1 GHz

Sweep time= Auto

Sweep points ≥ 2 x Span/RBW

Above 1 GHz:

RBW= 1 MHz

VBW= 3 MHz

Trace Mode: Peak Detector (Max Hold) and RMS Average Detector (Max Hold)

Span= 1- 18 GHz and 18- 26.5 GHz.

Sweep time= Auto

Sweep points ≥ 2 x Span/RBW

Final Measurements above 1 GHz

Peak Measurements

Spectrum Analyzer Settings:

RBW= 1 MHz

VBW= 3 MHz

Trace Mode: Peak Detector (Max Hold)

Span= wide enough to encompass the emission

Sweep Points ≥ 2 × Span/RBW

Sweep Time = Auto

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RMS Average Measurements – Other Spurious Emissions

Spectrum Analyzer Settings:

RBW= 1 MHz

VBW≥ 3 × RBW

Detector= RMS

Span= wide enough to encompass the emission

Sweep points≥ 2 × Span/RBW

Sweep time = auto

Trace= Average at least 100 traces

Trace Averaging Type= power (RMS)

The duty cycle correction factor is added to the emission level.

Average Measurements – Harmonic Emissions

Spectrum Analyzer Settings:

RBW= 1 MHz

VBW≥ 3 × RBW

Detector= Peak

Span= wide enough to encompass the emission

Sweep points = auto

Sweep time ≥ 2 × Span/RBW

Trace= Max Hold

The normal operational duty cycle correction factor is added to the emission level.

Sample Calculations:

Field Strength Level: Amplitude (Analyzer level) + AFCL (Antenna Factor and Cable losses) -Amplifier Gain = 50 dBuV + 33 dB - 25 dB = 58 dBuV/m.

Duty Cycle for spurious emissions:

Duty Cycle (%) = $[(T_{on}) / (T_{on} + T_{off})] *100$

If duty cycle >98% then the correction factor is 0, else the correction factor is calculated as follows.

Duty Cycle Correction Factor = $10 \log^*(1/DC) = 10 \log (1/0.92) = 0.362dB$

Average Measurements for spurious emissions:

Peak Amplitude + AFCL (Antenna Factor and Cable Losses) - Amplifier Gain + Duty Cycle Correction Factor = $50dB\mu V + 33 dB - 25 dB + 0.36 dB = 58.36 dB\mu V/m$

Duty Cycle for harmonic frequencies:

DH5 packet length per channel is 3.125ms, therefore in 100ms there are 32 time slots. Across the minimum number of 20 channels, the worst case (i.e. round up) utilization for any channel is 2 times. Transmit time = 2 x 2.86ms = 5.72ms. Per FCC 15.35 (c), average measurements are integrated over 100ms.

Duty Cycle Correction Factor = 20xlog(5.72ms/100ms) = 24.85 dB

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Average Measurements for harmonic frequencies:

Peak Amplitude + AFCL (Antenna Factor and Cable Losses) – Amplifier Gain + Duty Cycle Correction Factor = $50 \text{ dB}\mu\text{V} + 33 \text{ dB} - 25 \text{ dB} - 24.85 \text{ dB} = 33.15 \text{ dB}\mu\text{V/m}$

9.9.3 Limits:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (meters)	Corrected Field Strength for 3m measurement distance (dBµV/m)
0.009-0.490	2400/F (kHz)	300	48.5- 13.8
0.490-1.705	24000/F (kHz)	30	33.8- 23.0
1.705-30	30	30	29.5
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
960-1000	500	3	54
Above 1000 (Restricted Frequency Bands)	500	3	54 (Average) 74 (Peak)

9.9.4 Test Result:

Pass.



9.9.5 **Test Data**:

9.9.5.1 Radiated Restricted Band-edge emissions

		Band edge Average Data									
Carrier Frequency (MHz)	Mode	Frequency (MHz)	Raw Avg. Amplitude (dBµV)	System Correction Factor (dB)	DC Correction Factor (dB)	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)			
2402	1-DH5	2389.08	29.80	12.70	1.25	43.75	54	-10.25			
2480	1-DH5	2483.80	31.24	13.20	1.25	45.69	54	-8.31			
2402	2-DH5	2389.99	29.80	12.70	2.09	44.59	54	-9.41			
2402	2-DH5	2483.60	30.26	13.20	2.09	45.55	54	-8.45			
2402	3-DH5	2389.70	29.86	12.70	1.26	43.82	54	-10.18			
2402	3-DH5	2483.80	30.98	13.20	1.26	45.44	54	-8.56			

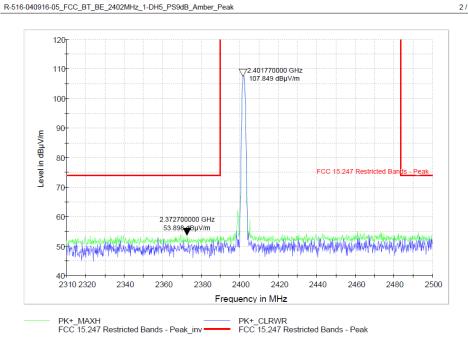


Figure 9-60 Restricted Band Edge 1-DH5 Mode- Ch. 0 (2310-2390MHz) - Peak

2/2



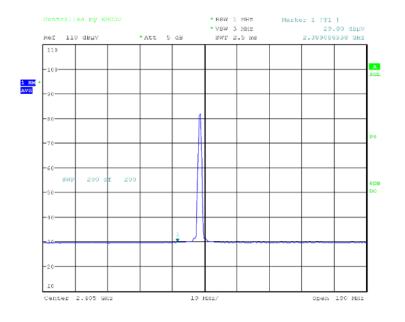


Figure 9-61 Restricted Band Edge 1-DH5 Mode- Ch. 0 (2310-2390MHz) - Average

Date: 3.MAY.2019 12:07:53

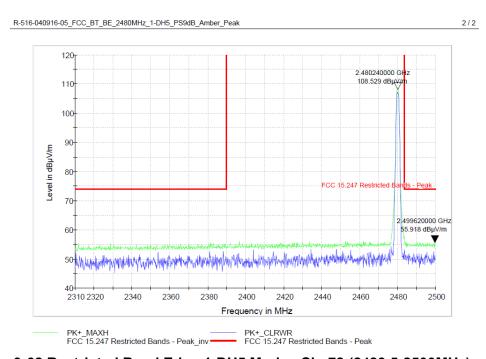


Figure 9-62 Restricted Band Edge 1-DH5 Mode- Ch. 78 (2483.5-2500MHz) - Peak



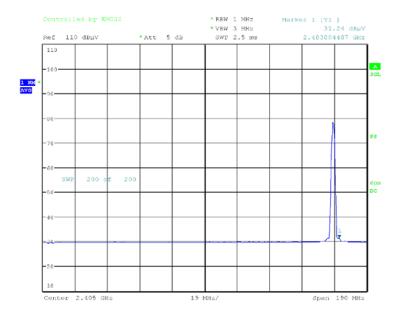


Figure 9-63 Restricted Band Edge 1-DH5 Mode– Ch. 78 (2483.5-2500MHz) – Average

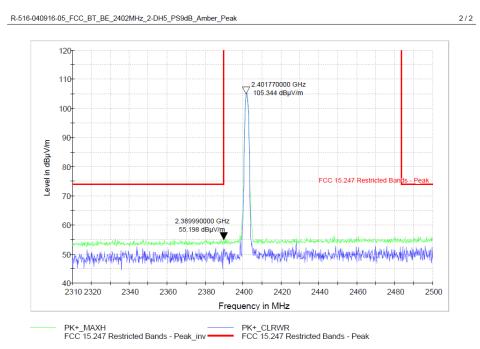
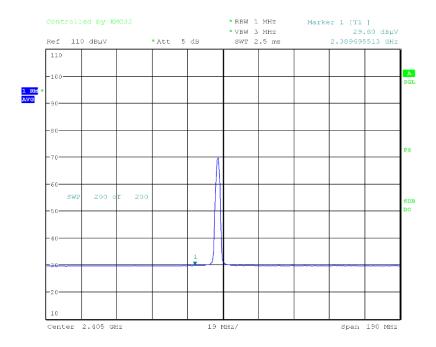


Figure 9-64 Restricted Band Edge 2-DH5 Mode- Ch. 0 (2310-2390MHz) - Peak





Date: 3.MAY.2019 13:04:24

Figure 9-65 Restricted Band Edge 2-DH5 Mode- Ch. 0 (2310-2390MHz) - Average

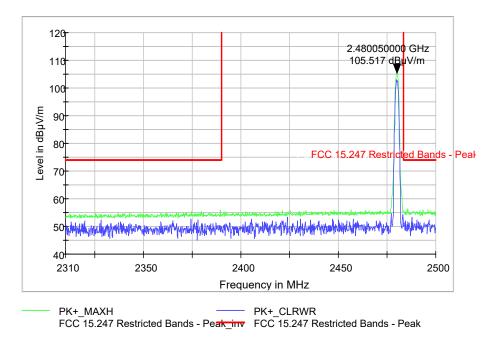
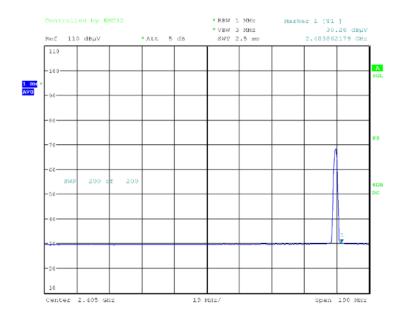


Figure 9-66 Restricted Band Edge 2-DH5 Mode- Ch. 78 (2483.5-2500MHz) - Peak





Date: 3.MAY.2019 13:31:37

Figure 9-67 Restricted Band Edge 2-DH5 Mode- Ch. 78 (2483.5-2500MHz) - Average

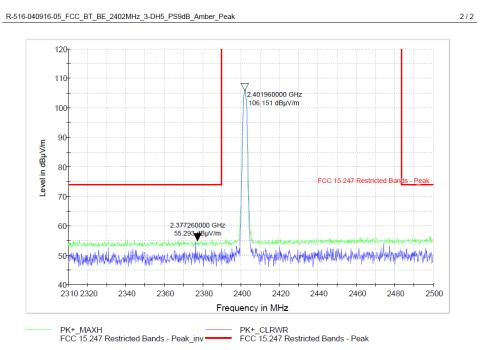


Figure 9-68 Restricted Band Edge 3-DH5 Mode- Ch. 0 (2310-2390MHz) - Peak



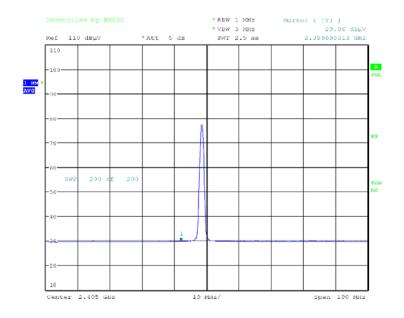


Figure 9-69 Restricted Band Edge 3-DH5 Mode- Ch. 0 (2310-2390MHz) - Average

Date: 3.MAY.2019 13:52:54



Figure 9-70 Restricted Band Edge 3-DH5 Mode- Ch. 78 (2483.5-2500MHz) - Peak



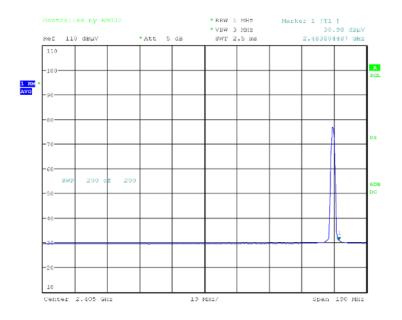


Figure 9-71 Restricted Band Edge 3-DH5 Mode- Ch. 78 (2483.5-2500MHz) - Average

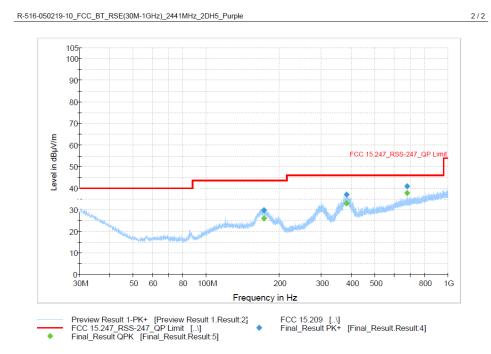
Date: 3.MAY.2019 14:08:11



9.9.5.2 Emissions in 30 MHz- 1 GHz range

All channels and modes of operations were tested and worst-case emissions in 2DH5 mode, Ch 39 shown below.

Carrier Frequency (MHz)	Frequency (MHz)	Raw Quasi- Peak Field Strength (dBµV/m)	Correction Factor (dB)	Corrected Quasi- Peak Field Strength (dBµV/m)	QP Limit (dΒμV/m)	Margin (dB)
2441	173.23	6.58	19.5	26.08	43.50	-17.42
2441	381.91	13.09	23.9	36.99	46.00	-9.01
2441	679.93	8.01	29.8	37.81	46.00	-8.19



Plot 9-72. Radiated Spurious Emissions (Ch. 39) 2-DH5 (30MHz - 1GHz)

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9.9.5.3 Emissions in 1-18 GHz range

	RSE 1 - 18GHz Average Data 1-DH5									
Carrier Frequency (MHz)	Frequency (MHz)	Raw Avg. Amplitude (dBµV)	System Correction Factor (dB)	DC Correction Factor (dB)	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)			
2402	3401.00	26.85	8.3	2.33	37.48	54	-16.52			
2402	5220.00	32.16	10.9	2.33	45.39	54	-8.61			
2402	7206.30	-14.63	13.1	25.80	24.27	54	-29.73			
2402	9608.50	-13.74	16.4	25.80	28.46	54	-25.54			
2402	12010.70	-14.67	19.9	25.80	31.03	54	-22.97			
2402	14411.40	-17.62	22.1	25.80	30.28	54	-23.72			
2441	2048.32	27.47	13.1	2.33	42.89	54	-11.10			
2441	3400.80	25.81	8.3	2.33	36.44	54	-17.56			
2441	6963.00	26.59	13.7	2.33	42.62	54	-11.38			
2441	9764.50	-12.67	16.5	25.80	29.63	54	-24.37			
2441	12229.90	-19.05	20.1	25.80	26.85	54	-27.15			
2441	14645.40	-16.24	22.7	25.80	32.26	54	-21.74			
2480	3399.20	20.95	8.3	2.33	31.57	54	-22.43			
2480	6960.00	22.03	13.7	2.33	38.05	54	-15.95			
2480	17941.00	20.71	25.5	0	46.21	54	-7.79			

		RSE 1 - 180	Hz Peak Data	1-DH5		
Carrier Frequency (MHz)	Frequency (MHz)	Raw Peak Amplitude (dBµV)	Correction Factor (dB)	Corrected Peak Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2402	3401.00	38.15	8.3	46.45	74	-27.55
2402	5220.00	37.87	10.9	48.77	74	-25.23
2402	7206.30	36.97	13.1	50.07	74	-23.93
2402	9608.50	37.86	16.4	54.26	74	-19.74
2402	12010.70	36.93	19.9	56.83	74	-17.17
2402	14411.40	33.98	22.1	56.08	74	-17.92
2441	2048.32	37.54	13.1	50.64	74	-23.36
2441	3400.80	36.5	8.3	44.8	74	-29.2
2441	6963.00	33.48	13.7	47.18	74	-26.82
2441	9764.50	38.93	16.5	55.43	74	-18.57
2441	12229.90	32.55	20.1	52.65	74	-21.35
2441	14645.40	35.36	22.7	58.06	74	-15.94
2480	3399.20	35.23	8.3	43.53	74	-30.47
2480	6960.00	34.13	13.7	47.83	74	-26.17
2480	17941.00	32.33	25.5	57.83	74	-16.17

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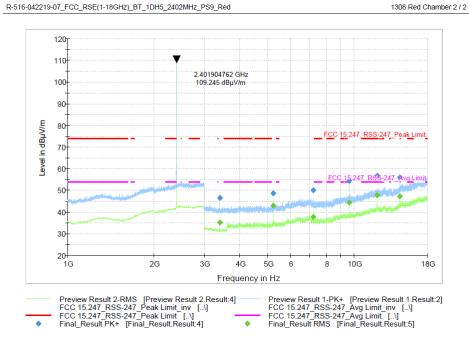


Figure 9-73 Radiated Spurious Emissions (Ch. 0) 1-DH5 (1-18 GHz)

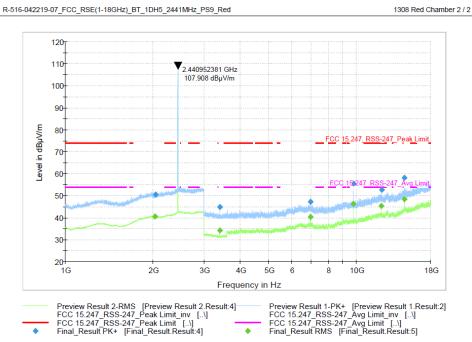
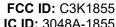


Figure 9-74 Radiated Spurious Emissions (Ch. 39) 1-DH5 (1-18 GHz)

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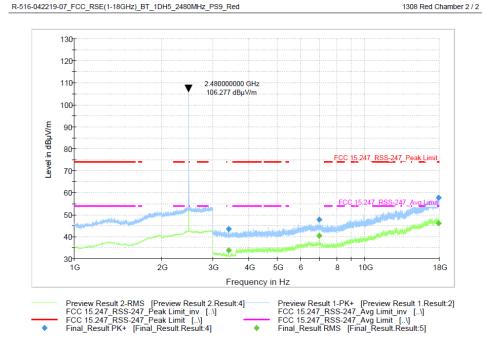


Figure 9-75 Radiated Spurious Emissions (Ch. 78) 1-DH5 (1-18 GHz)



	RSE 1 - 18GHz Average Data 2-DH5									
Carrier Frequency (MHz)	Frequency (MHz)	Raw Avg. Amplitude (dBµV)	System Correction Factor (dB)	DC Correction Factor	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)			
2402	3400.70	20.28	8.3	2.33	30.90	54	-23.10			
2402	17864.50	20.82	25.4	0	46.22	54	-7.78			
2441	3399.20	20.12	8.3	2.33	30.74	54	-23.26			
2441	17704.10	20.27	26.5	0	46.77	54	-7.23			
2480	3401.90	20.62	8.3	2.33	31.24	54	-22.76			
2480	17884.20	20.81	25.4	0	46.21	54	-7.79			

	RSE 1 - 18GHz Peak Data 2-DH5									
Carrier Frequency (MHz)	Frequency (MHz) Raw Peak Amplitude (dBµV)		Corrected Peak Field Strength (dBµV/m)		Peak Limit (dBµV/m)	Margin (dB)				
2402	3400.7	36.11	8.3	44.41	74	-29.59				
2402	17864.5	32.03	25.4	57.43	74	-16.57				
2441	3399.2	36.57	8.3	44.87	74	-29.13				
2441	17704.1	31.84	26.5	58.34	74	-15.66				
2480	3401.9	35.3	8.3	43.6	74	-30.4				
2480	17884.2	32.57	25.4	57.97	74	-16.03				



1308 Red Chamber 2 / 2

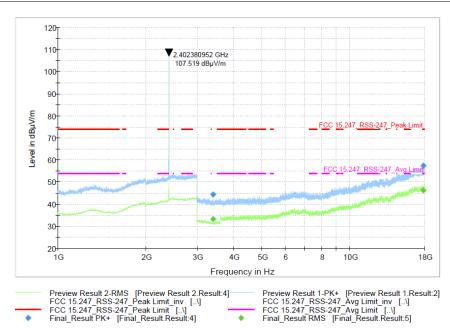


Figure 9-76 Radiated Spurious Emissions (Ch. 0) 2-DH5 (1-18 GHz)

R-516-042219-07_FCC_RSE(1-18GHz)_BT_2DH5_2441MHz_PS9_Red

1308 Red Chamber 2 / 2

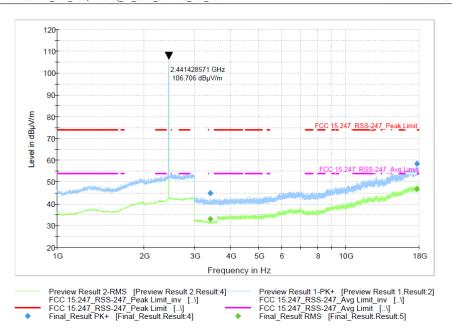


Figure 9-77 Radiated Spurious Emissions (Ch. 39) 2-DH5 (1-18 GHz)

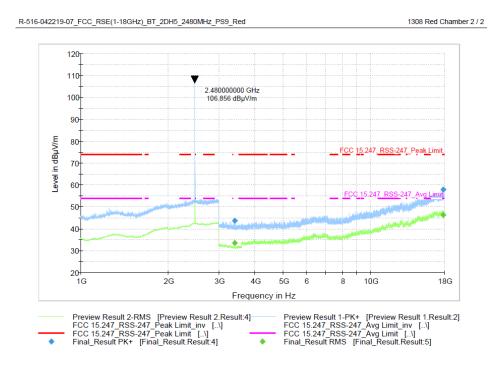


Figure 9-78 Radiated Spurious Emissions (Ch. 78) 2-DH5 (1-18 GHz)



	RSE 1 - 18GHz Average Data 3-DH5									
Carrier Frequency (MHz)	Frequency (MHz)	Raw Avg. Amplitude (dBµV)	System Correction Factor (dB)	DC Correction Factor	Corrected Avg. Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)			
2402	3399.50	21.99	8.3	2.33	32.62	54	-21.38			
2402	17971.50	20.68	26.3	0	46.98	54	-7.02			
2441	3399.40	21.53	8.3	2.33	32.15	54	-21.85			
2441	17961.10	20.81	26	0	46.81	54	-7.19			
2480	3400.80	25.17	8.3	2.33	35.80	54	-18.20			
2480	17889.50	20.81	25.5	0	46.31	54	-7.69			

	RSE 1 - 18GHz Peak Data 3-DH5									
Carrier Frequency (MHz)	Frequency (MHz)	(MHz) Amplitude (dBµV)		Corrected Peak Field Factor (dB) Strength (dBµV/m)		Margin (dB)				
2402	3399.50	38.29	8.3	46.59	74	-27.41				
2402	17971.50	32.97	26.3	59.27	74	-14.73				
2441	3399.40	38.36	8.3	46.66	74	-27.34				
2441	17961.10	32.11	26	58.11	74	-15.89				
2480	3400.80	35.67	8.3	43.97	74	-30.03				
2480	17889.50	32.43	25.5	57.93	74	-16.07				

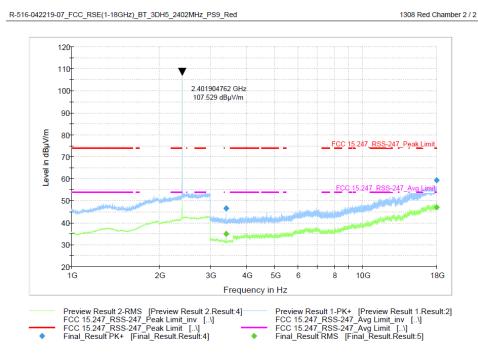


Figure 9-79 Radiated Spurious Emissions (Ch. 0) 3-DH5 (1-18 GHz)

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IC ID: 3048A-1855

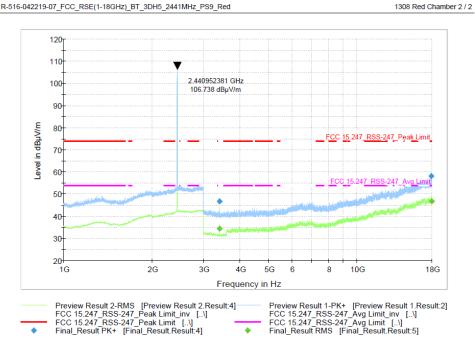


Figure 9-80 Radiated Spurious Emissions (Ch. 39) 3-DH5 (1-18 GHz)

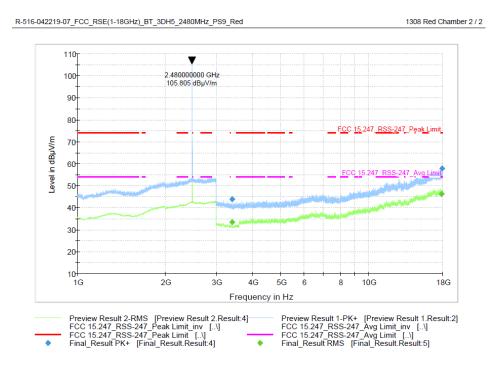


Figure 9-81 Radiated Spurious Emissions (Ch. 78) 3-DH5 (1-18 GHz)



9.9.5.4 Emissions in 18-26.5 GHz range

All channels and modes of operations were tested and worst-case results from 2DH5 mode, Ch 39 shown below. No significant emissions above noise floor.

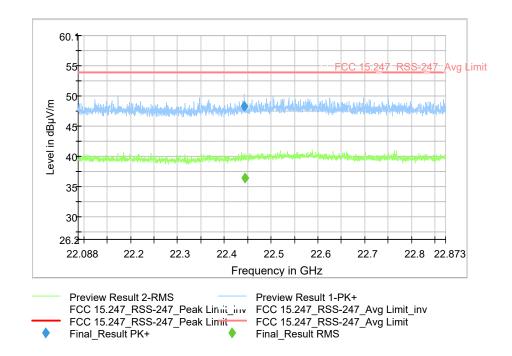


Figure 9-82 Radiated Spurious Emissions (Ch. 39) 2-DH5 (18-26.5 GHz)

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9.10 AC Line Conducted Emissions

9.10.1 Test Requirements

FCC CFR 47 Rule Part 15.207 (a)

ISED RSS Gen [8.8]

9.10.2 Test Method

Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the unsymmetrical radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with the power cords that are used under normal operating conditions. These measurements are made using a LISN (Line Impedance Stabilization Network). AC powered peripherals are attached to a second LISN with the 50-ohm measuring port terminated by a 50-ohm resistive load.

The EUT is set to continuously transmit on BT hopping mode.

EMI Receiver Settings:

150 kHz - 30 MHz:

RBW= 9 kHz

VBW ≥ 3 X RBW

Trace Mode: Peak Detector (Max Hold).

Final measurements were performed using Quasi-Peak and Average Detectors.

Span= 150 kHz - 30 MHz

Sweep time= Auto

9.10.3 Limit

		Conducted lim	it (dΒμV)
Free	quency of emission (MHz)	Quasi-peak	Average
0.15-0.5		66 to 56*	56 to 46*
0.5-5		56	46
5-30		60	50

9.10.4 Test Result:

Pass

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9.10.5 Test Data:

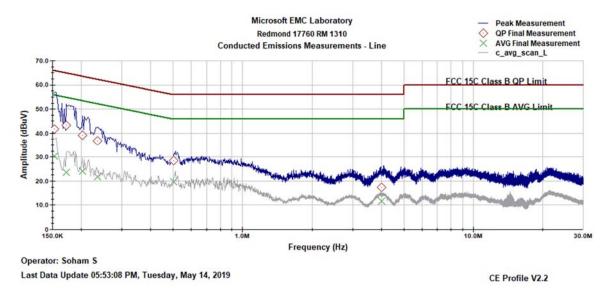


Figure 9-83 AC Line Conducted Emissions- Line (150 kHz- 30 MHz)

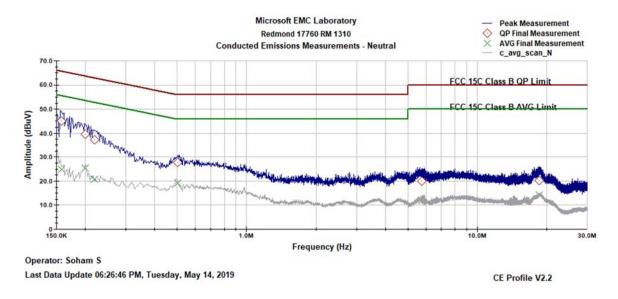


Figure 9-84 AC Line Conducted Emissions- Neutral (150 kHz- 30 MHz)



Frequency (MHz)	QP Net Reading (dBµV)	AVG Net Reading (dBµV)	Quasi- Peak Limit (dBµV)	Average Limit (dBµV)	Line Tested (L or N)	Quasi- Peak Margin (dB)	Average Margin (dB)
0.158	45.22	24.76	65.59	55.59	N	-20.37	-30.82
0.20	39.56	25.43	63.59	53.59	N	-24.03	-28.16
0.219	37.40	20.75	62.85	52.85	N	-25.46	-32.10
0.503	27.82	19.30	56.00	46.00	N	-28.18	-26.70
18.533	20.17	14.26	60.00	50.00	N	-39.83	-35.75
5.77	19.90	12.04	60.00	50.00	N	-40.10	-37.96
0.172	43.31	23.68	64.85	54.85	L	-21.54	-31.18
0.153	41.66	30.32	65.84	55.84	L	-24.18	-25.53
0.203	39.22	24.15	63.49	53.49	L	-24.28	-29.35
0.235	36.78	21.67	62.28	52.28	L	-25.50	-30.61
0.501	28.39	19.58	56.00	46.00	L	-27.61	-26.42
4.01	17.40	11.69	56.00	46.00	L	-38.60	-34.31



End of Report