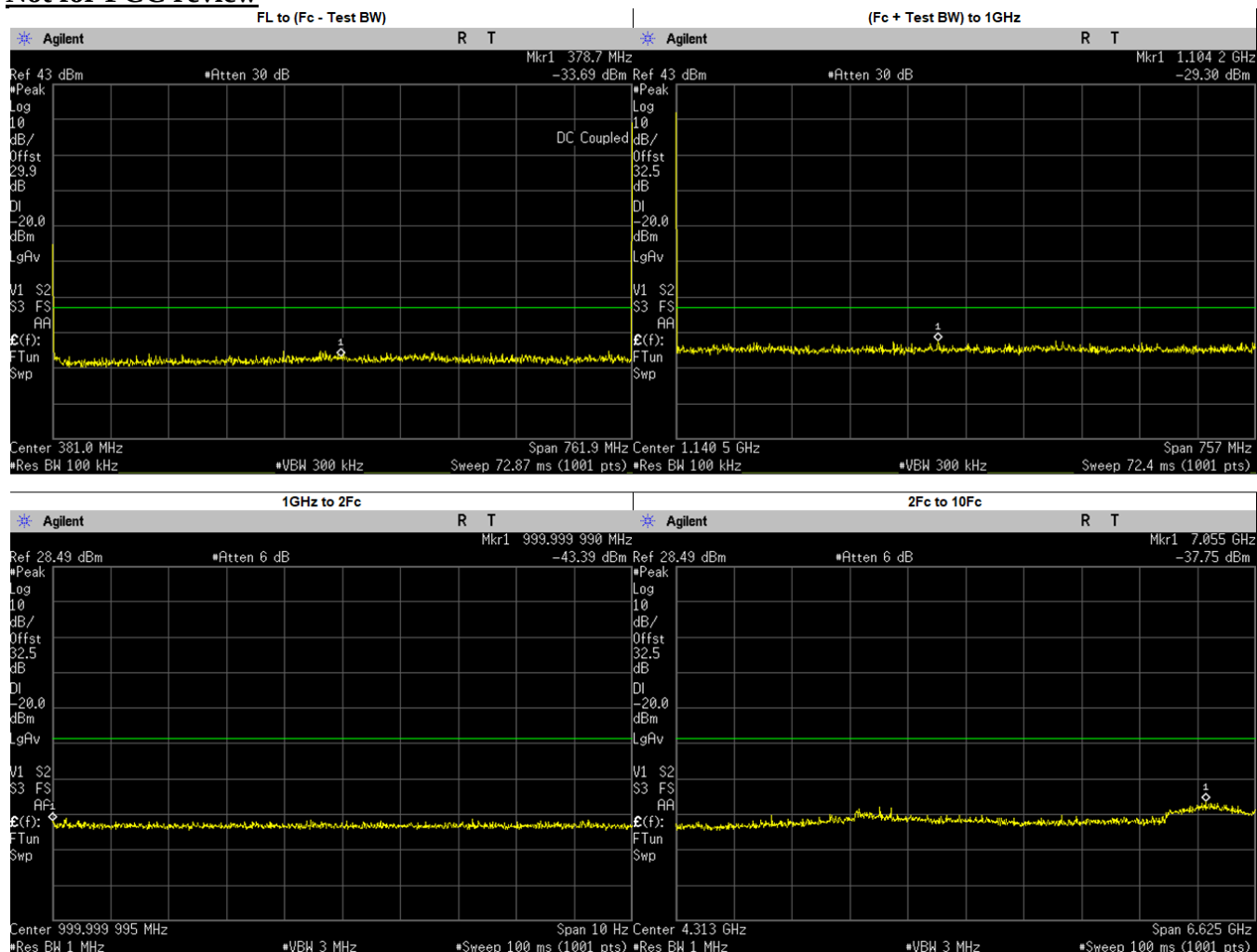
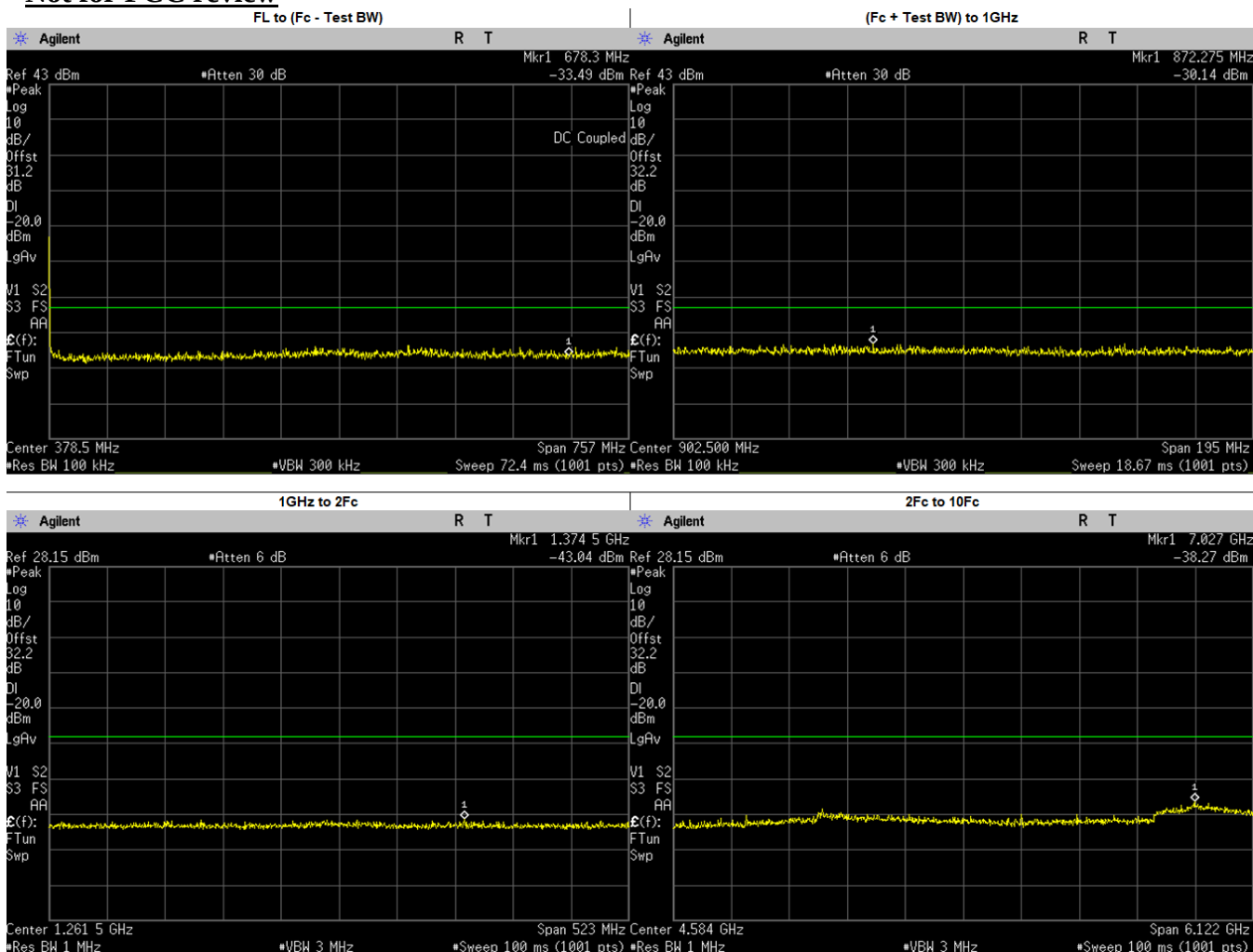


Phase II : 762.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



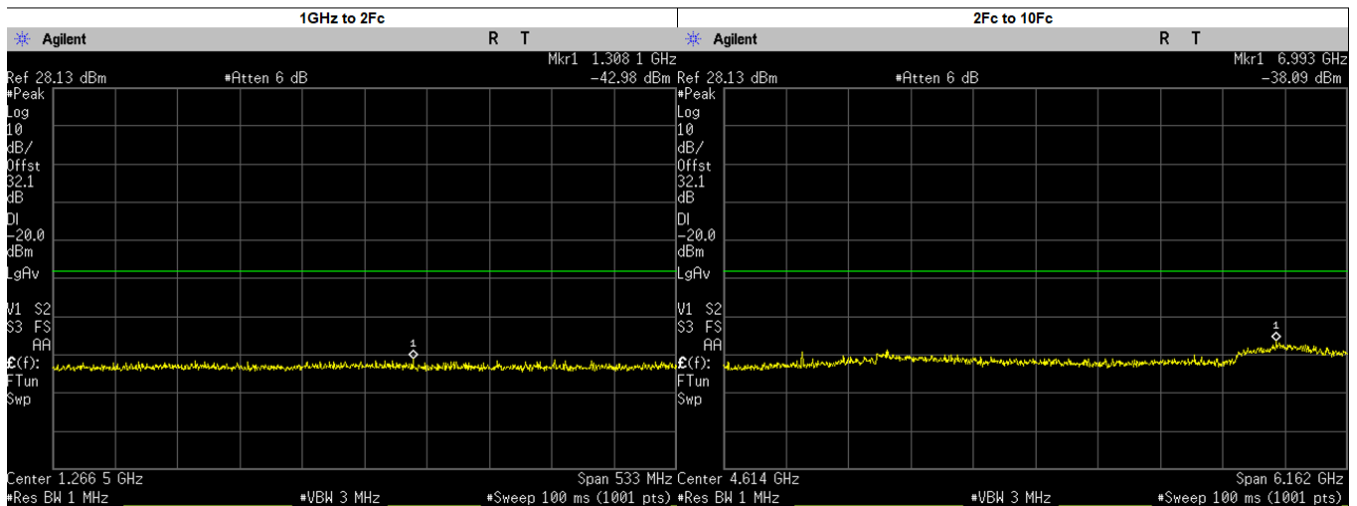
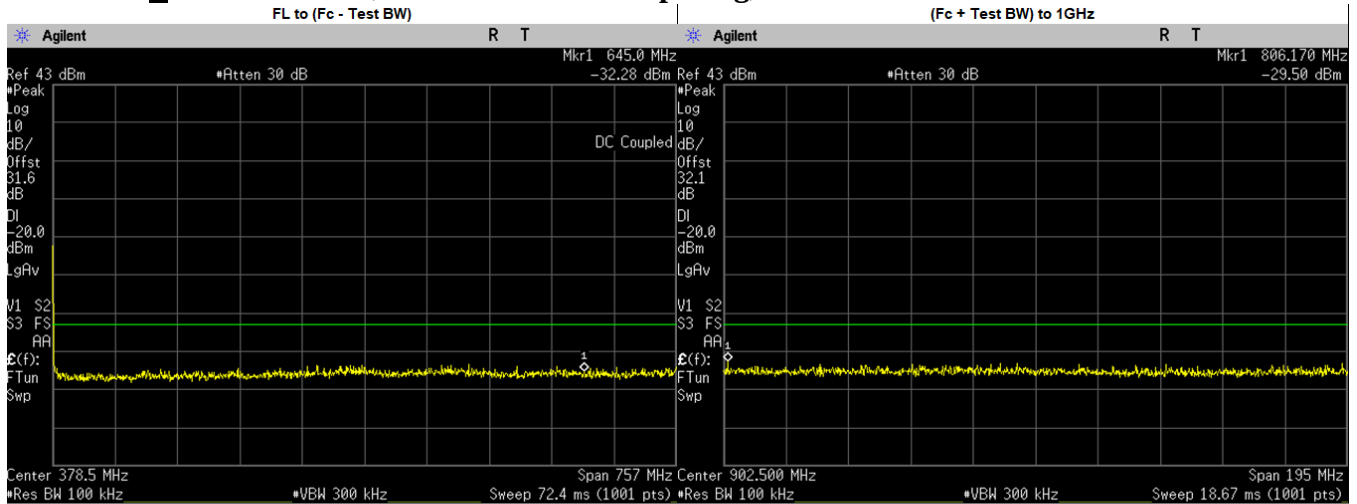
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	378.7000	-33.6870	-20.00	PASS
(Fc + Test BW) to 1GHz	1104.2130	-29.3000	-20.00	PASS
1GHz to 2Fc	1000.0000	-43.3900	-20.00	PASS
2Fc to 10Fc	7055.0000	-37.7500	-20.00	PASS
	2286.0370	-43.0723	-20.00	PASS
	3048.0500	-41.4881	-20.00	PASS
	3810.0620	-43.1049	-20.00	PASS
	4572.0750	-43.4553	-20.00	PASS
	5334.0870	-44.1613	-20.00	PASS
	6096.1000	-43.8509	-20.00	PASS
	6858.1130	-40.5461	-20.00	PASS
	7620.1250	-40.4076	-20.00	PASS
	7055.3640	-37.7500	-20.00	PASS

Phase II : 764.0125 MHz, 12.5 kHz Channel Spacing, Max.Power
Not for FCC review



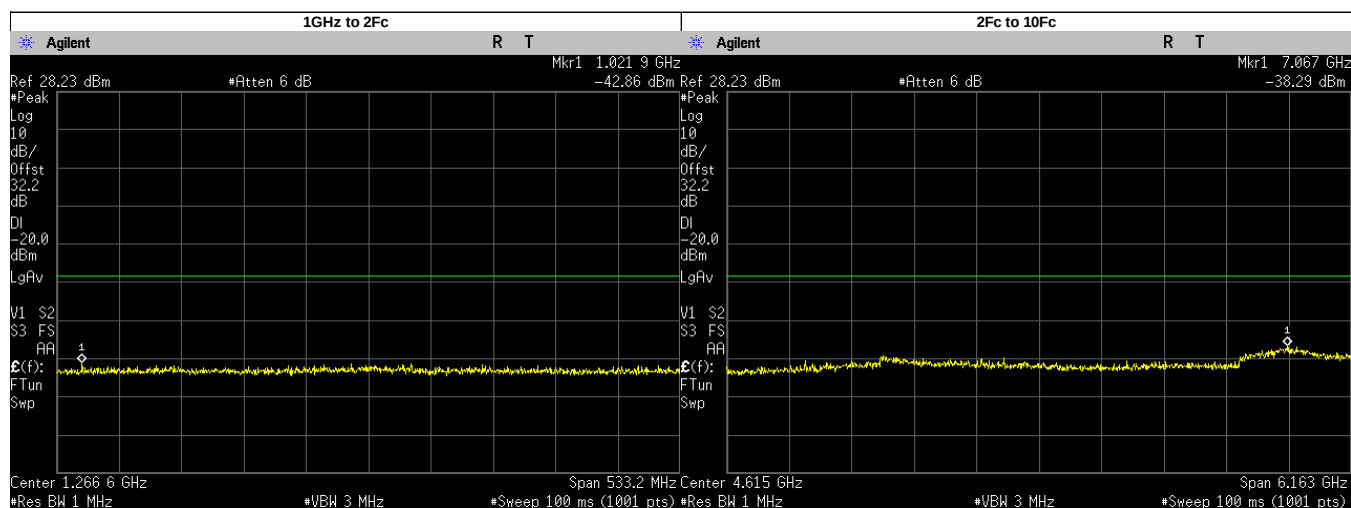
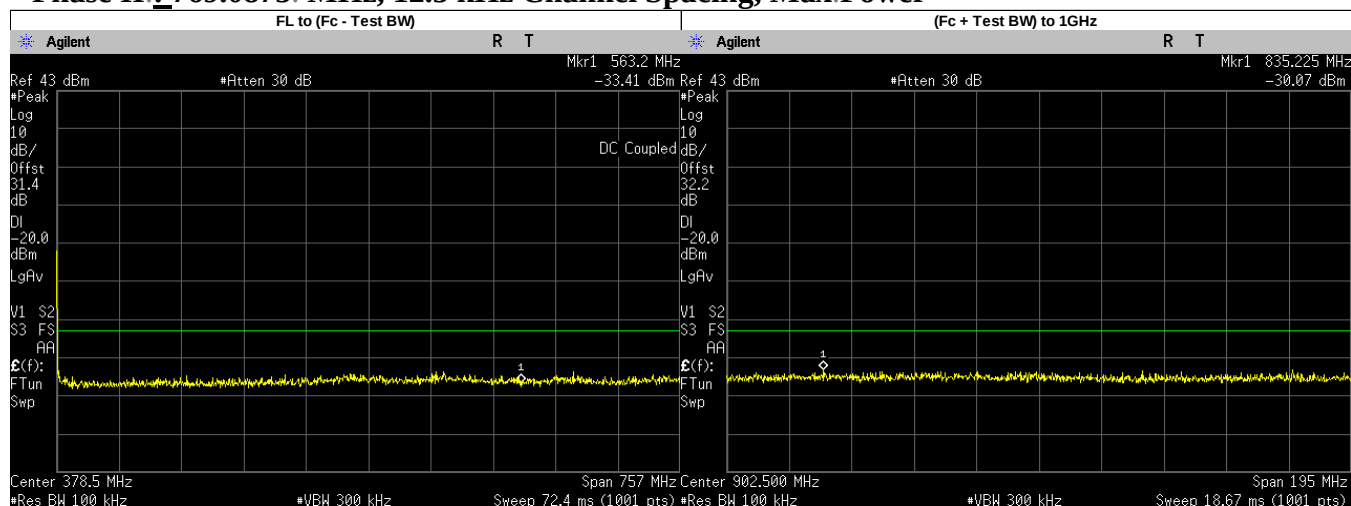
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	678.3000	-33.4940	-20.00	PASS
(Fc + Test BW) to 1GHz	872.2750	-30.1400	-20.00	PASS
1GHz to 2Fc	1374.4860	-43.0400	-20.00	PASS
2Fc to 10Fc	7027.0000	-38.2700	-20.00	PASS
	2292.0370	-43.2952	-20.00	PASS
	3056.0500	-41.9546	-20.00	PASS
	3820.0620	-43.1995	-20.00	PASS
	4584.0750	-44.3510	-20.00	PASS
	5348.0870	-43.6950	-20.00	PASS
	6112.1000	-43.5009	-20.00	PASS
	6876.1130	-40.6287	-20.00	PASS
	7640.1250	-42.0412	-20.00	PASS
	7026.7930	-38.2700	-20.00	PASS

Phase II.: 769.0125. MHz, 12.5 kHz Channel Spacing, Max. Power



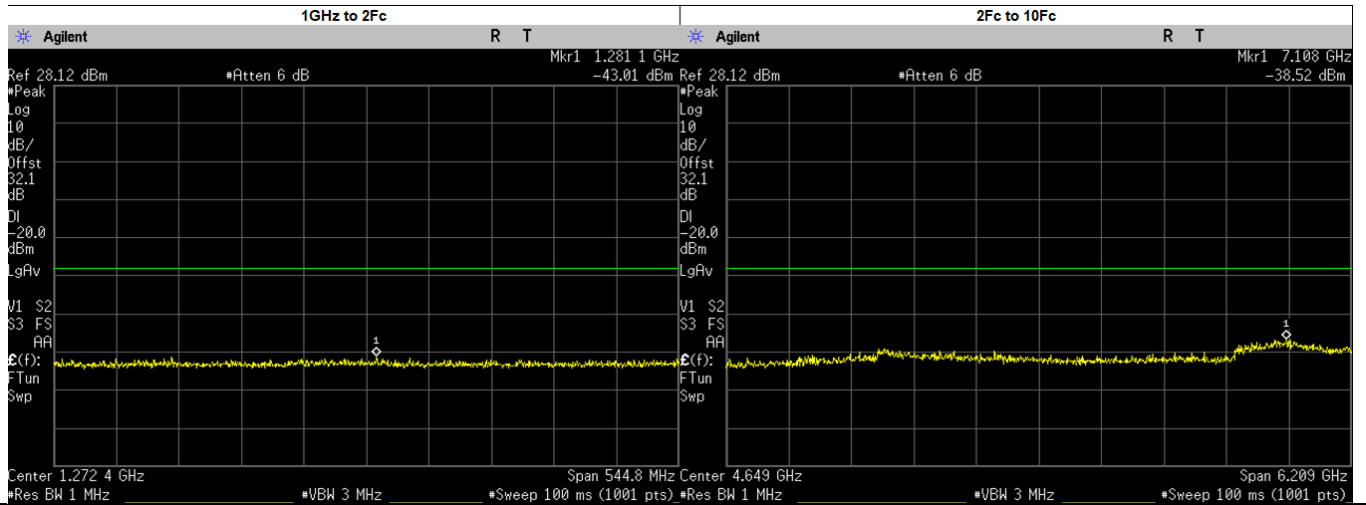
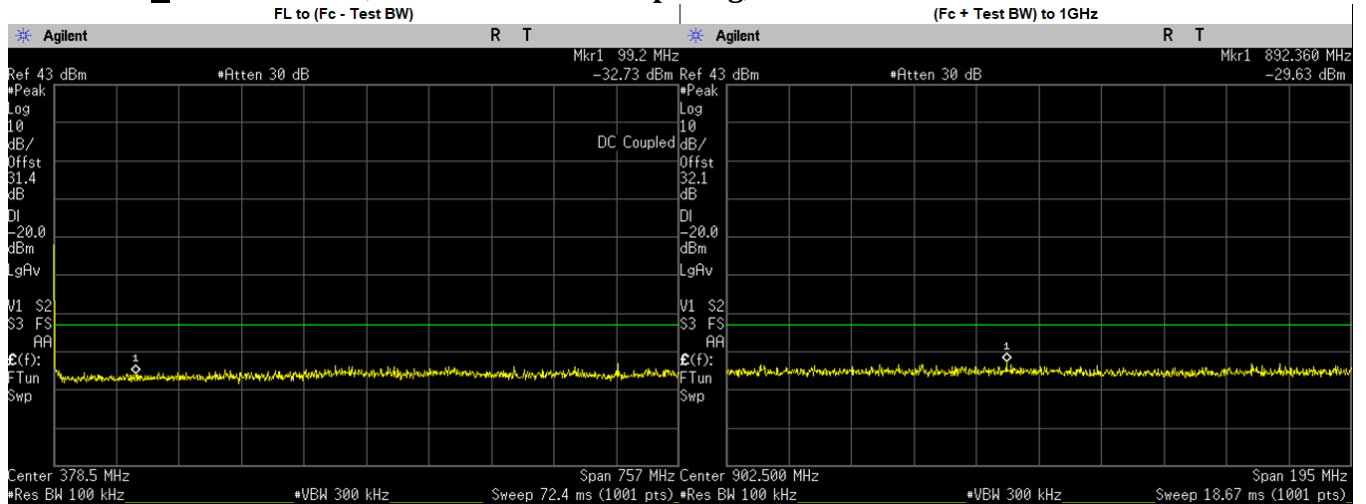
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	645.0000	-32.2790	-20.00	PASS
(Fc + Test BW) to 1GHz	806.1700	-29.5000	-20.00	PASS
1GHz to 2Fc	1308.0880	-42.9800	-20.00	PASS
2Fc to 10Fc	6993.0000	-38.0900	-20.00	PASS
	2307.0370	-42.0340	-20.00	PASS
	3076.0500	-42.0284	-20.00	PASS
	3845.0620	-42.1627	-20.00	PASS
	4614.0750	-43.5270	-20.00	PASS
	5383.0870	-44.0849	-20.00	PASS
	6152.1000	-43.9582	-20.00	PASS
	6921.1130	-40.6783	-20.00	PASS
	7690.1250	-41.4526	-20.00	PASS
	6992.6460	-38.0900	-20.00	PASS

Phase II.: 769.0875. MHz, 12.5 kHz Channel Spacing, Max. Power



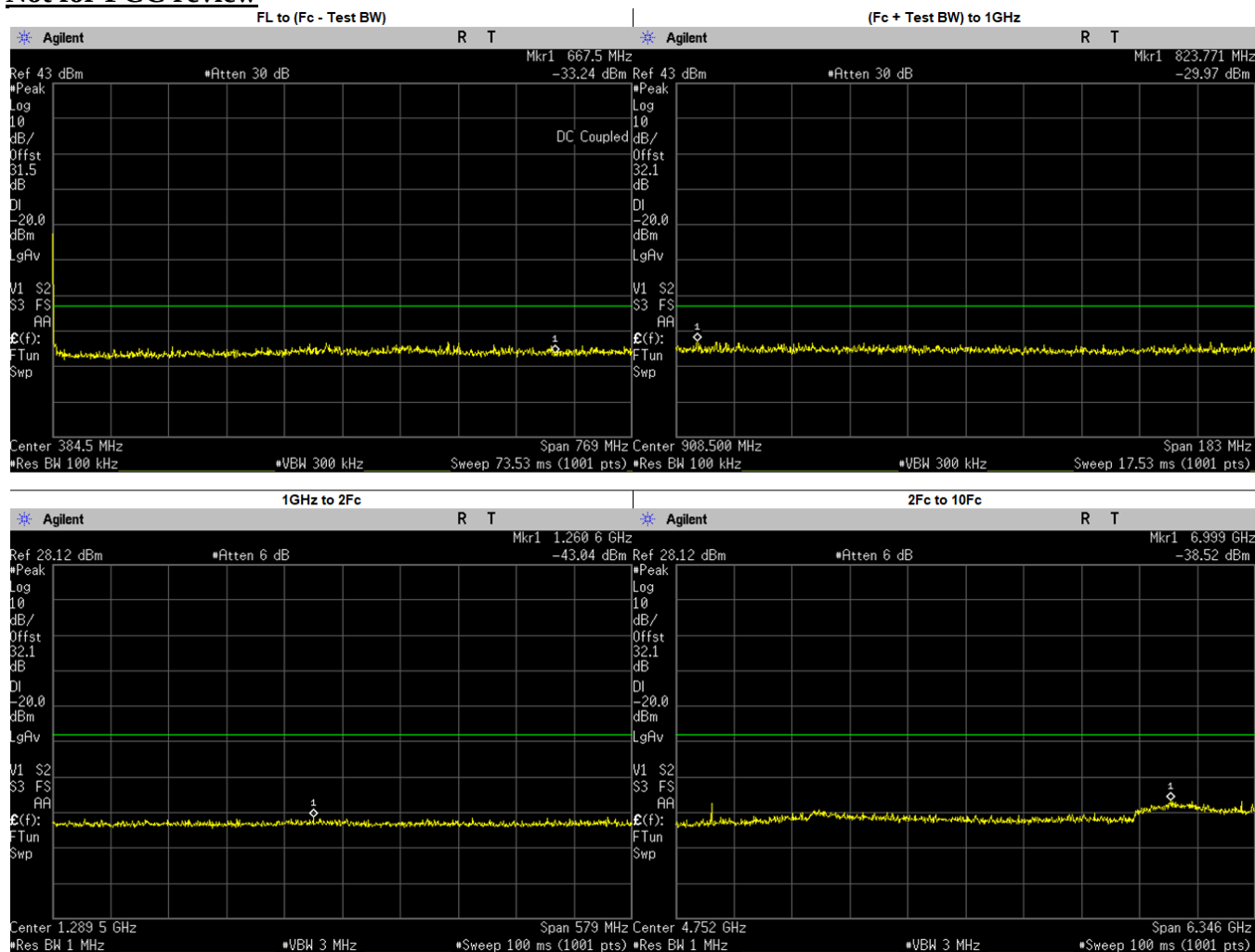
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	563.2000	-33.4090	-20.00	PASS
(Fc + Test BW) to 1GHz	835.2250	-30.0700	-20.00	PASS
1GHz to 2Fc	1021.8600	-42.8600	-20.00	PASS
2Fc to 10Fc	7067.0000	-38.2900	-20.00	PASS
	2307.2620	-42.8713	-20.00	PASS
	3076.3500	-41.5080	-20.00	PASS
	3845.4370	-42.4270	-20.00	PASS
	4614.5250	-44.0420	-20.00	PASS
	5383.6130	-44.8356	-20.00	PASS
	6152.7000	-43.7603	-20.00	PASS
	6921.7880	-40.6298	-20.00	PASS
	7690.8750	-41.4390	-20.00	PASS
	7067.2800	-38.2900	-20.00	PASS

Phase II.: 774.8875 MHz, 12.5 kHz Channel Spacing, Max Power



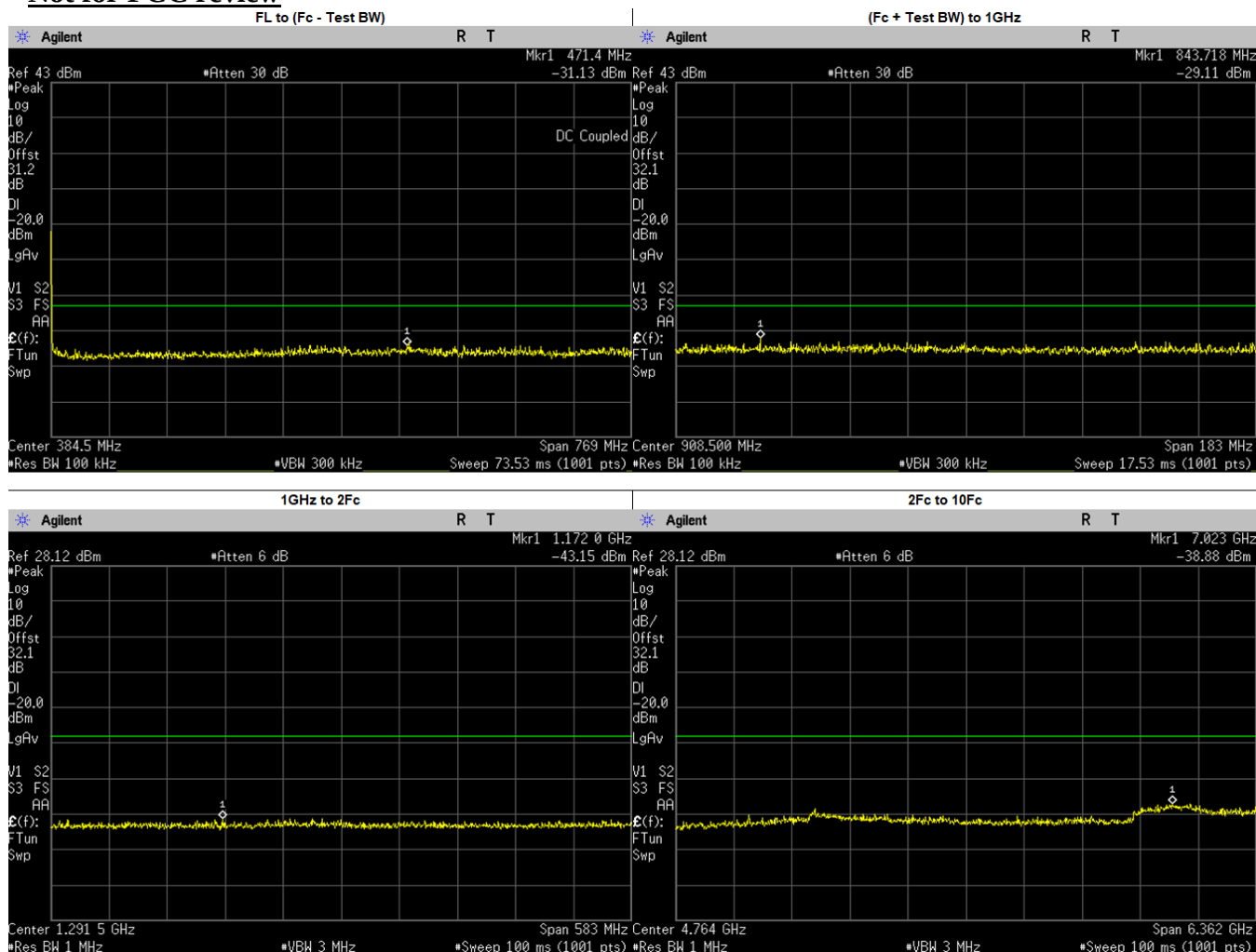
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	99.2000	-32.7280	-20.00	PASS
(Fc + Test BW) to 1GHz	892.3600	-29.6300	-20.00	PASS
1GHz to 2Fc	1281.1040	-43.0100	-20.00	PASS
2Fc to 10Fc	7108.0000	-38.5200	-20.00	PASS
	2324.6620	-43.8825	-20.00	PASS
	3099.5500	-42.1834	-20.00	PASS
	3874.4370	-43.8363	-20.00	PASS
	4649.3250	-44.1030	-20.00	PASS
	5424.2120	-44.2373	-20.00	PASS
	6199.1000	-43.7823	-20.00	PASS
	6973.9880	-40.0624	-20.00	PASS
	7748.8750	-41.3822	-20.00	PASS
	7108.1290	-38.5200	-20.00	PASS

Phase II : 792.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



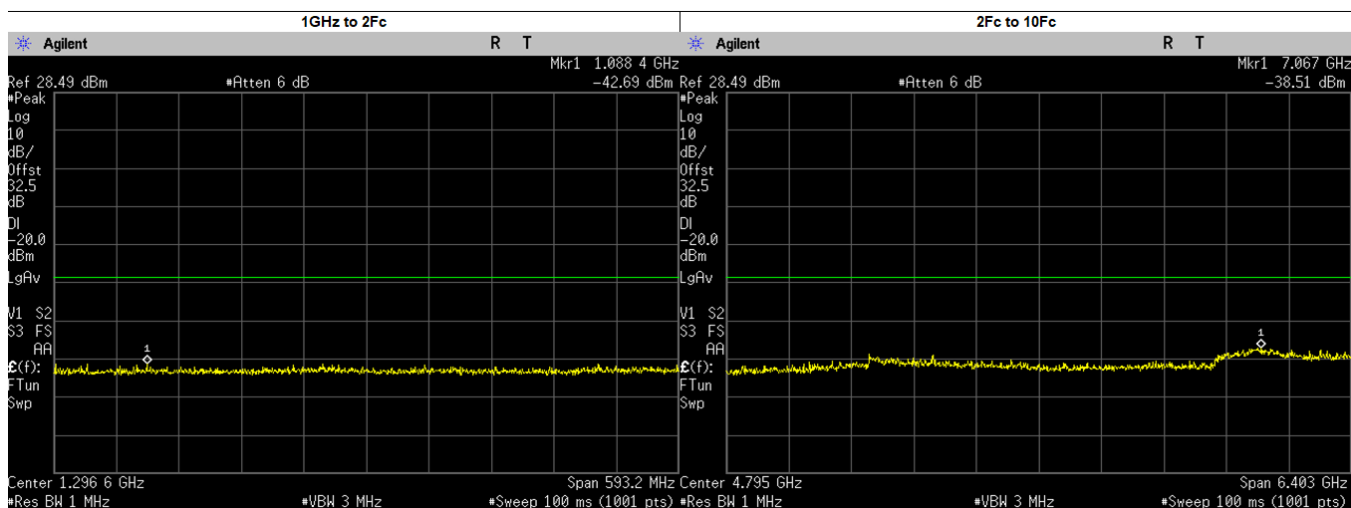
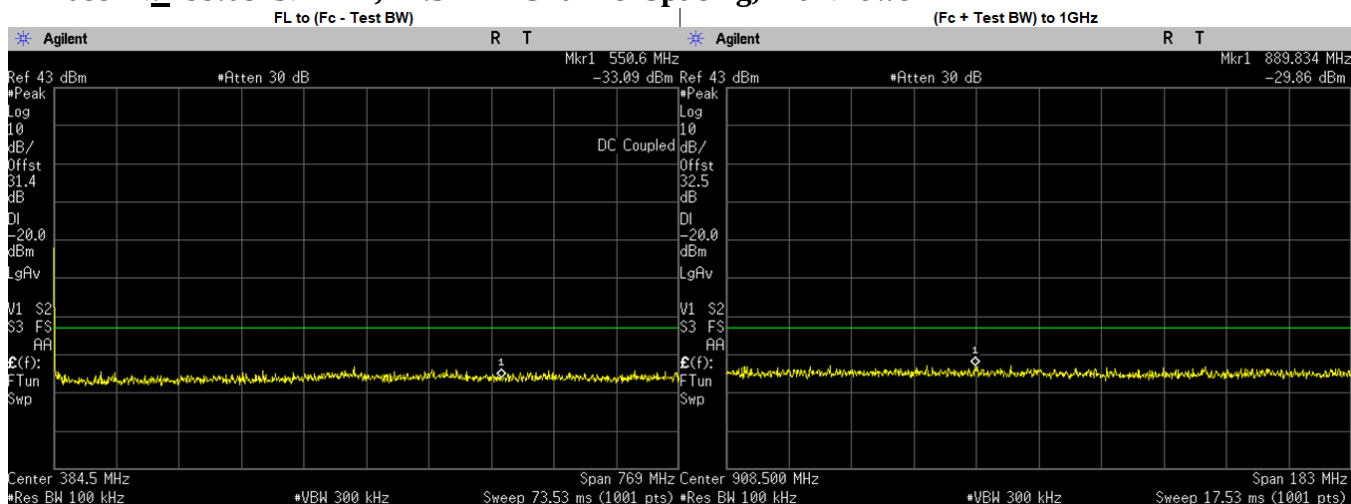
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	667.5000	-33.2370	-20.00	PASS
(Fc + Test BW) to 1GHz	823.7710	-29.9600	-20.00	PASS
1GHz to 2Fc	1260.5610	-43.0400	-20.00	PASS
2Fc to 10Fc	6999.0000	-38.5200	-20.00	PASS
	2376.0370	-44.6864	-20.00	PASS
	3168.0500	-41.9448	-20.00	PASS
	3960.0620	-42.6264	-20.00	PASS
	4752.0750	-44.0500	-20.00	PASS
	5544.0870	-43.9477	-20.00	PASS
	6336.1000	-43.9194	-20.00	PASS
	7128.1130	-40.0281	-20.00	PASS
	7920.1250	-41.1991	-20.00	PASS
	6998.5940	-38.5200	-20.00	PASS

Phase II : 794.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



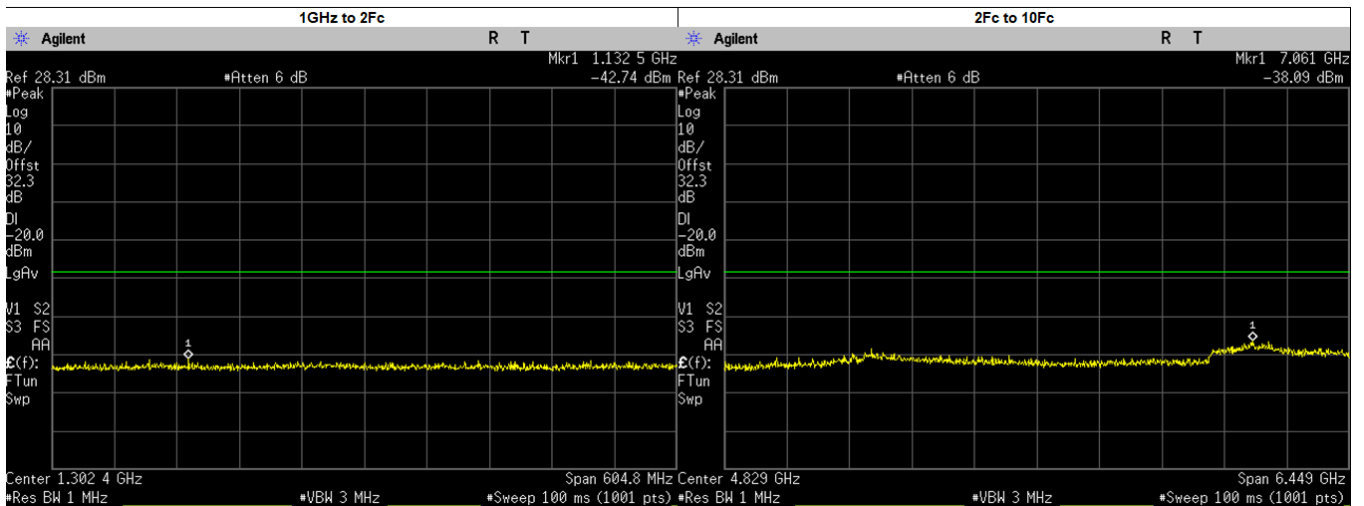
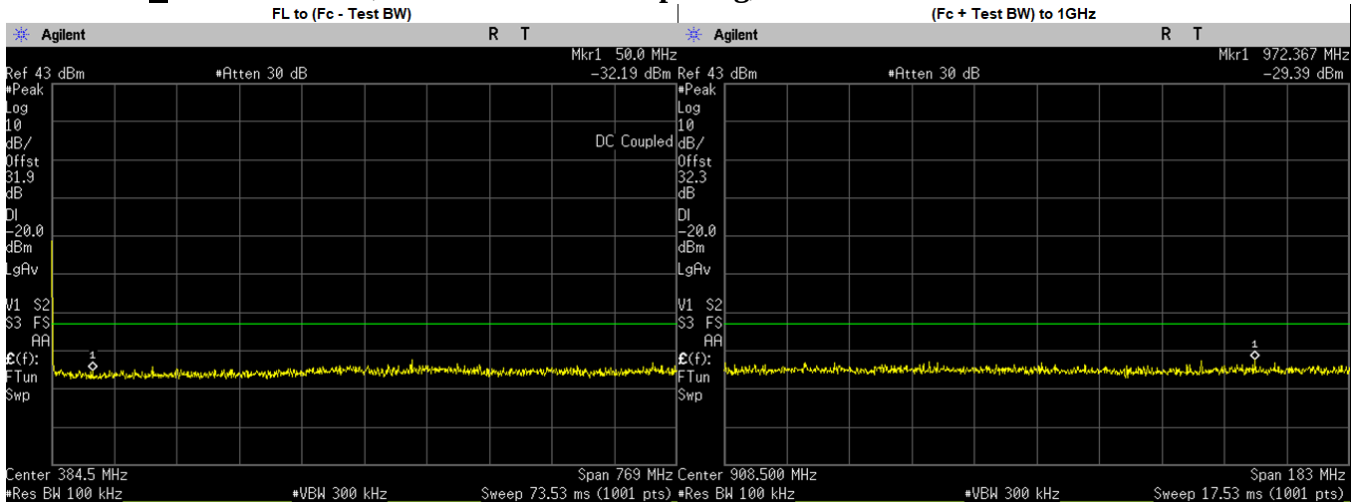
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	471.4000	-31.1320	-20.00	PASS
(Fc + Test BW) to 1GHz	843.7180	-29.1100	-20.00	PASS
1GHz to 2Fc	1171.9920	-43.1500	-20.00	PASS
2Fc to 10Fc	7023.0000	-38.8800	-20.00	PASS
	2382.0370	-42.9061	-20.00	PASS
	3176.0500	-42.6639	-20.00	PASS
	3970.0620	-43.9065	-20.00	PASS
	4764.0750	-44.4880	-20.00	PASS
	5558.0870	-44.2114	-20.00	PASS
	6352.1000	-43.8742	-20.00	PASS
	7940.1250	-41.0600	-20.00	PASS
	7022.6200	-38.8800	-20.00	PASS
	7146.1130	-39.8884	-20.00	PASS

Phase II: 799.0875 MHz, 12.5 kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	550.6000	-33.0940	-20.00	PASS
(Fc + Test BW) to 1GHz	889.8340	-29.8600	-20.00	PASS
1GHz to 2Fc	1088.3830	-42.6900	-20.00	PASS
2Fc to 10Fc	7067.0000	-38.5100	-20.00	PASS
	2397.2620	-44.9467	-20.00	PASS
	3196.3500	-42.1739	-20.00	PASS
	3995.4370	-43.7143	-20.00	PASS
	4794.5250	-43.5470	-20.00	PASS
	5593.6130	-44.0086	-20.00	PASS
	6392.7000	-43.6887	-20.00	PASS
	7990.8750	-41.1215	-20.00	PASS
	7067.4840	-38.5100	-20.00	PASS
	7191.7880	-39.5005	-20.00	PASS

Phase II.: 804.9125. MHz, 12.5 kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	50.0000	-32.1920	-20.00	PASS
(Fc + Test BW) to 1GHz	972.3670	-29.3900	-20.00	PASS
1GHz to 2Fc	1132.4570	-42.7400	-20.00	PASS
2Fc to 10Fc	7061.0000	-38.0900	-20.00	PASS
	2414.7380	-44.6003	-20.00	PASS
	3219.6500	-42.4283	-20.00	PASS
	4024.5620	-43.3978	-20.00	PASS
	4829.4750	-42.9650	-20.00	PASS
	5634.3870	-44.4121	-20.00	PASS
	6439.3000	-43.9721	-20.00	PASS
	7244.2120	-40.0538	-20.00	PASS
	8049.1250	-42.2145	-20.00	PASS
	7060.9330	-38.0900	-20.00	PASS

6.10.4. Test Limit

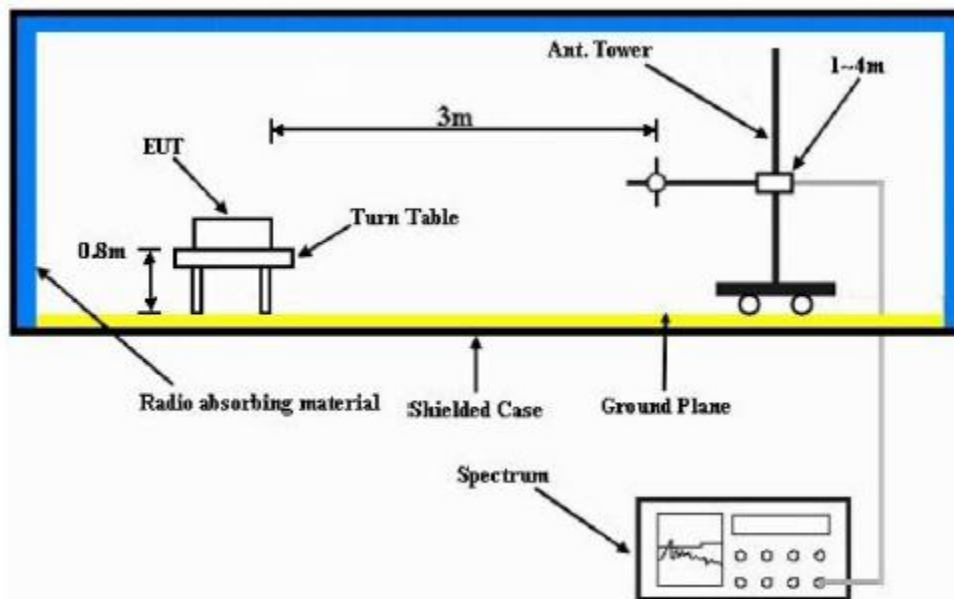
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz		Not Applicable		43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz	Not Applicable	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

6.11. Radiated Spurious Emission

6.11.1. Test Setup



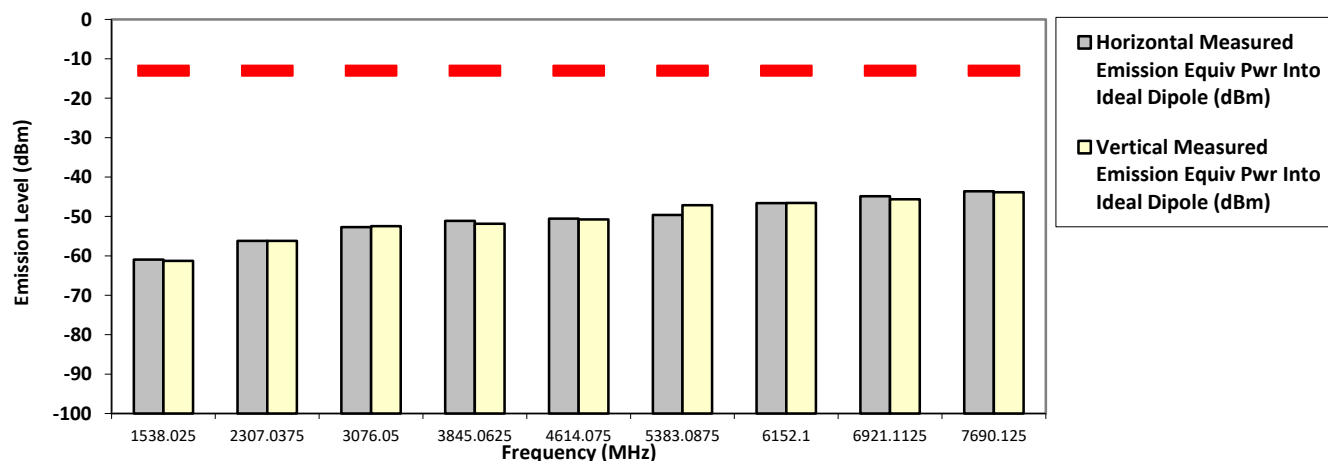
- 1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
- 2) In the semi- anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for $F_c < 1\text{GHz}$) or 1.5m height (for $F_c > 1\text{GHz}$) of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- 3) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

6.11.2. Test Result (Analog)

SAC Transmitter Radiated Emission:
Model Number: H91TGD9PW9AN S/N: 581TWT0057 SR:09377-EMC-00029
Battery Part No: PMNN4487A Accy Part No: NA
Test Mode: TX Analog
769.012500 MHz 12.5 kHz 2.990 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.0250	-13.0000	-60.9369 **	-61.2536 **
2307.0375	-13.0000	-56.2166 **	-56.2139 **
3076.0500	-13.0000	-52.6945 **	-52.4521 **
3845.0625	-13.0000	-51.1256 **	-51.8517 **
4614.0750	-13.0000	-50.5710 **	-50.7427 **
5383.0875	-13.0000	-49.6085 **	-47.1238 **
6152.1000	-13.0000	-46.5963 **	-46.5924 **
6921.1125	-13.0000	-44.8502 **	-45.6460 **
7690.1250	-13.0000	-43.6306 **	-43.8723 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Fendi Wed, 30 Sep, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.1 Hum(%RH): 69.8

System MU: 4.03 dB

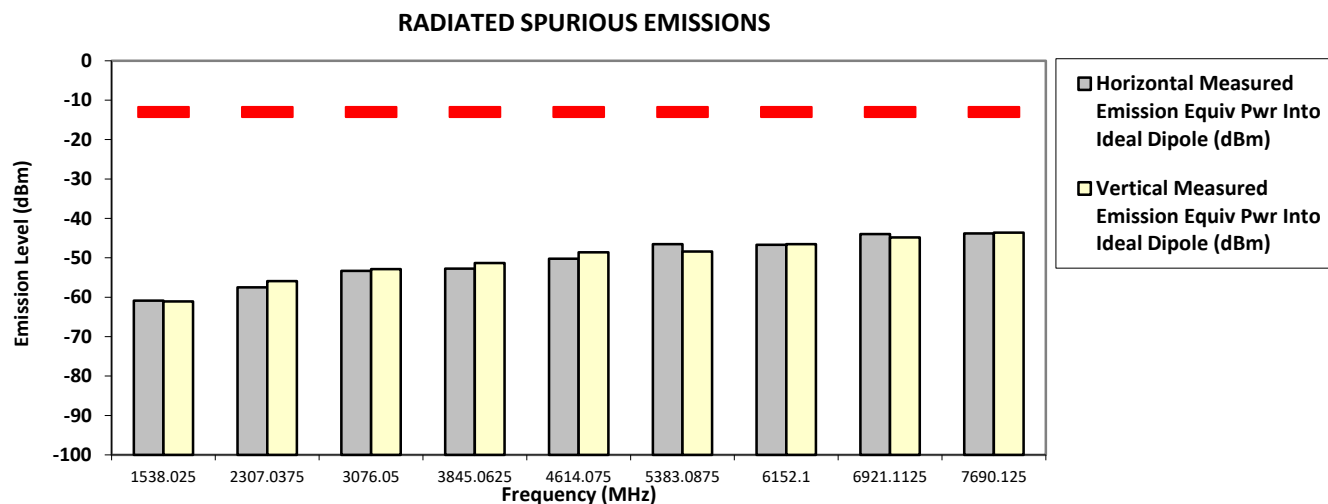
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H91TGD9PW9AN S/N: 581TWT0057 SR:09377-EMC-00029
Battery Part No: PMNN4487A Test Mode: TX Analog Accy Part No: NA
769.012500 MHz 12.5 kHz 1.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.0250	-13.0000	-60.8855 **	-61.0787 **
2307.0375	-13.0000	-57.4808 **	-55.9065 **
3076.0500	-13.0000	-53.3174 **	-52.8596 **
3845.0625	-13.0000	-52.7343 **	-51.3281 **
4614.0750	-13.0000	-50.2219 **	-48.5957 **
5383.0875	-13.0000	-46.5544 **	-48.4001 **
6152.1000	-13.0000	-46.6906 **	-46.5205 **
6921.1125	-13.0000	-43.9742 **	-44.8196 **
7690.1250	-13.0000	-43.8305 **	-43.6112 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Fendi Wed, 30 Sep, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.1 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

6.11.3. Test Result (Digital)

Not Applicable.

6.11.4. Test Limit

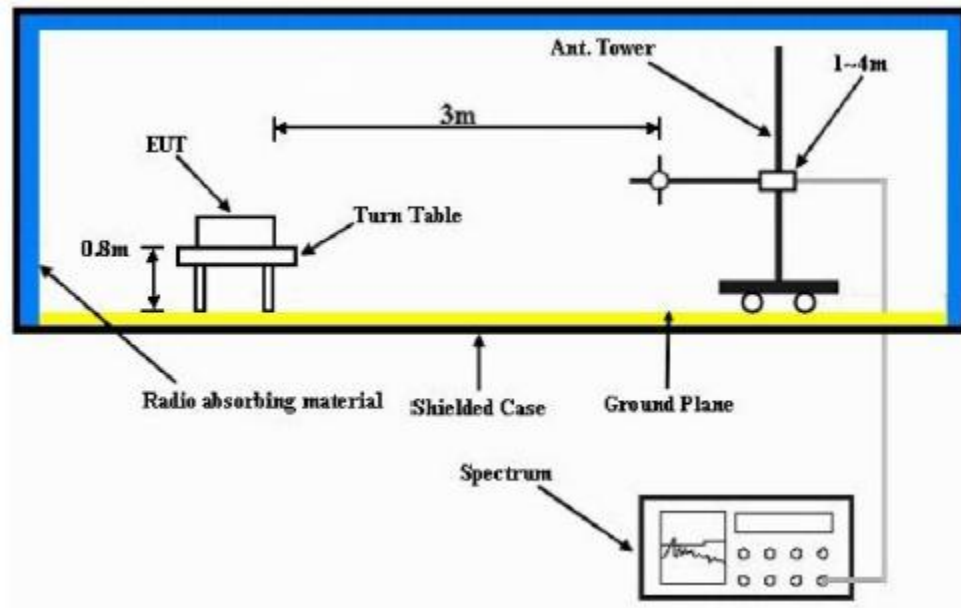
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz		Not Applicable		43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz	Not Applicable	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

6.12. Effective Radiated Power (ERP)

6.12.1. Test Setup



- 1) The Resolution Bandwidth for Equivalent Radiated Power (ERP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for $F_c < 1\text{GHz}$) or 1.5m (for $F_c > 1\text{GHz}$) of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 3) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna

6.12.2. Test Result

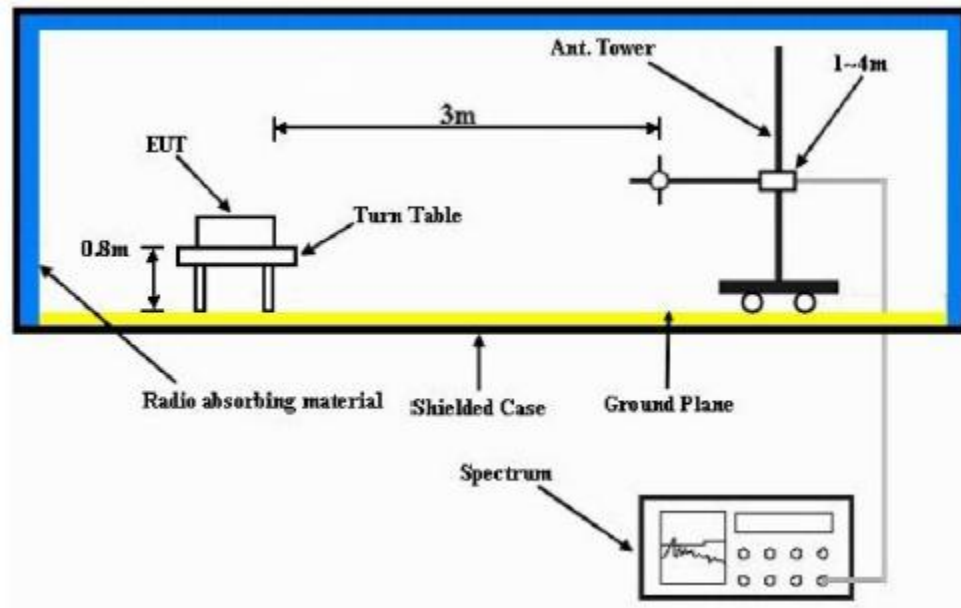
Not Applicable.

6.12.3. Test Limit

The maximum output power of the transmitter for mobile stations is 100 watts (20 dB). Power is given in terms of effective radiated power (ERP).

6.13. GNSS (EIRP for 1559 - 1610MHz)

6.13.1. Test Setup



- 4) The Resolution Bandwidth for Equivalent Isotropically Radiated Power (EIRP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 5) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 6) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 7) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

6.13.1. Test Result

Not Applicable

6.13.2. Test Limit

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

~ End of Test Report ~