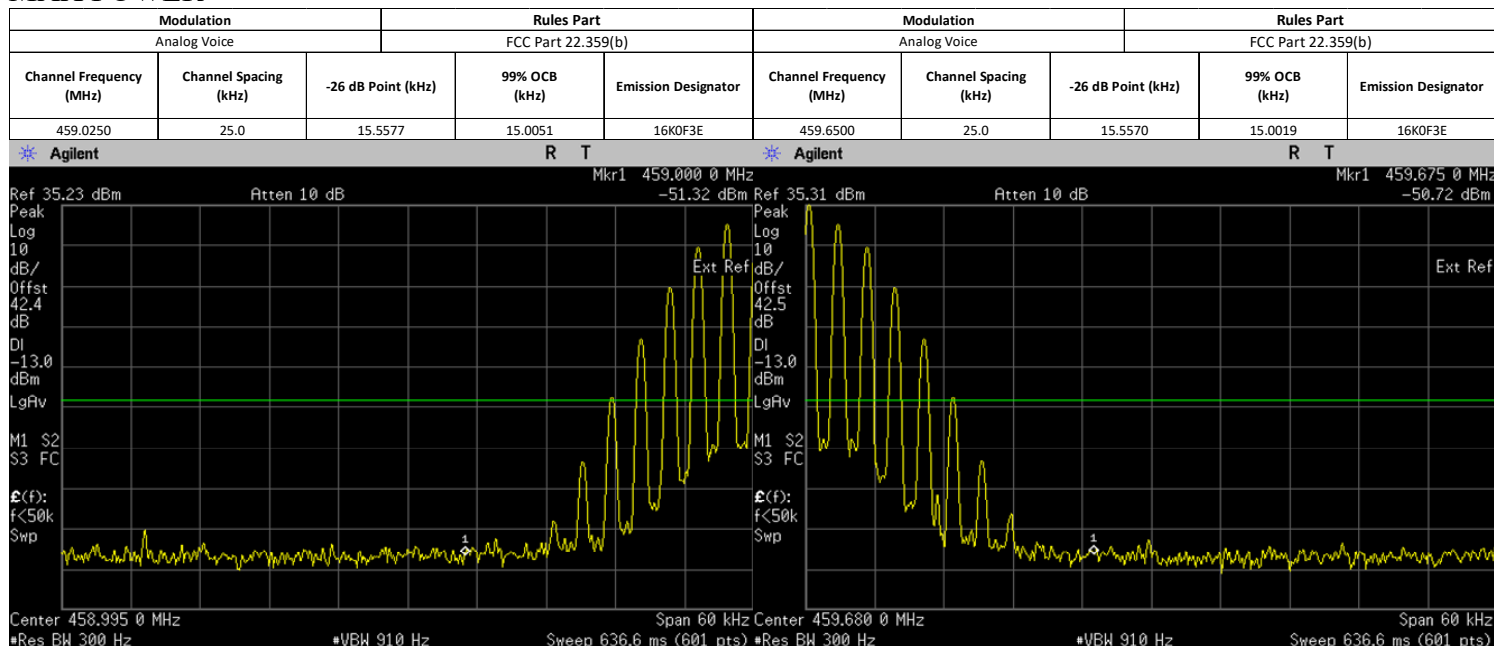
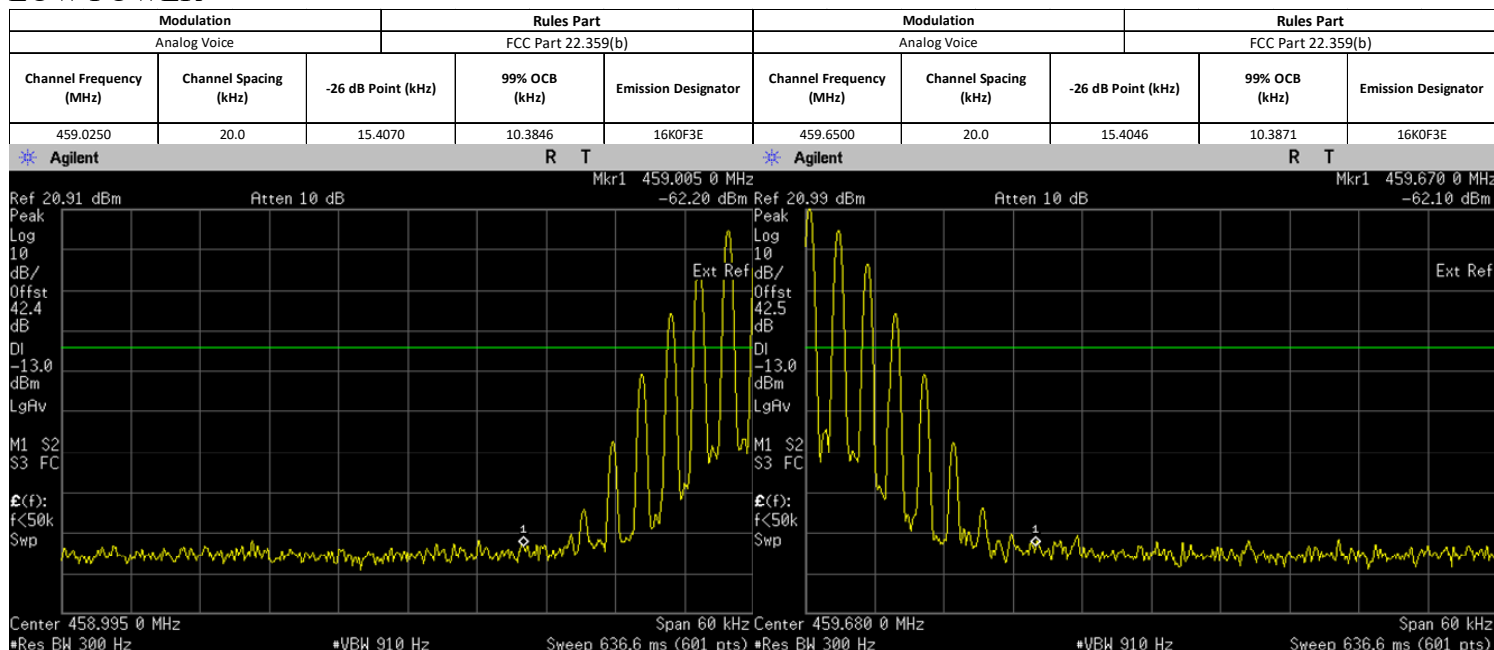


6.6.2. Test Result (Analog)

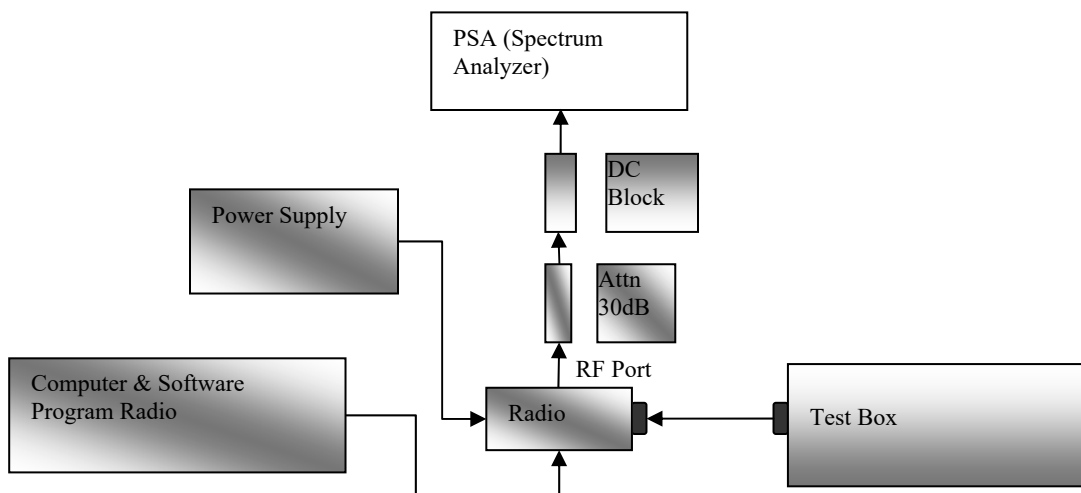
MAX POWER



LOW POWER



6.6.3. Test Setup (Digital)



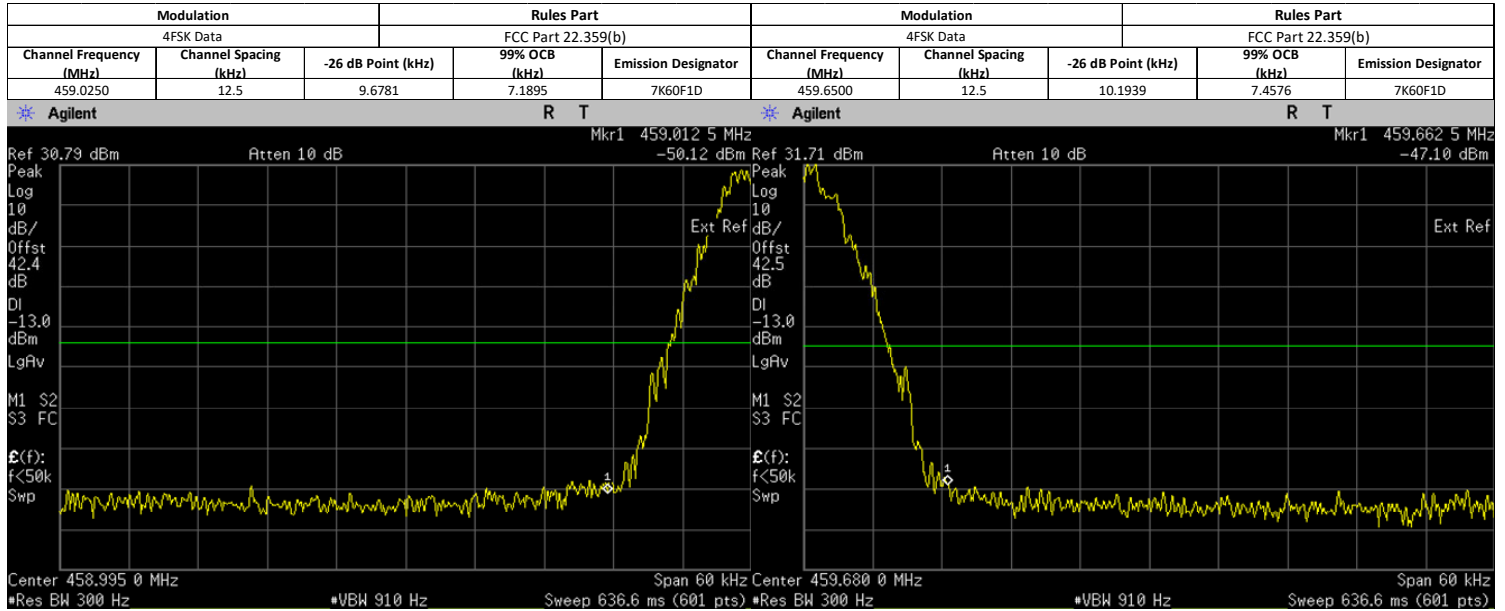
- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth.
- 5) Transmit radio record the occupied Bandwidth frequencies.
- 6) Preset the spectrum analyzer for band edge measurement.
- 7) Key in the lowest and highest channels frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 8) Save the screen shot.

*Note:

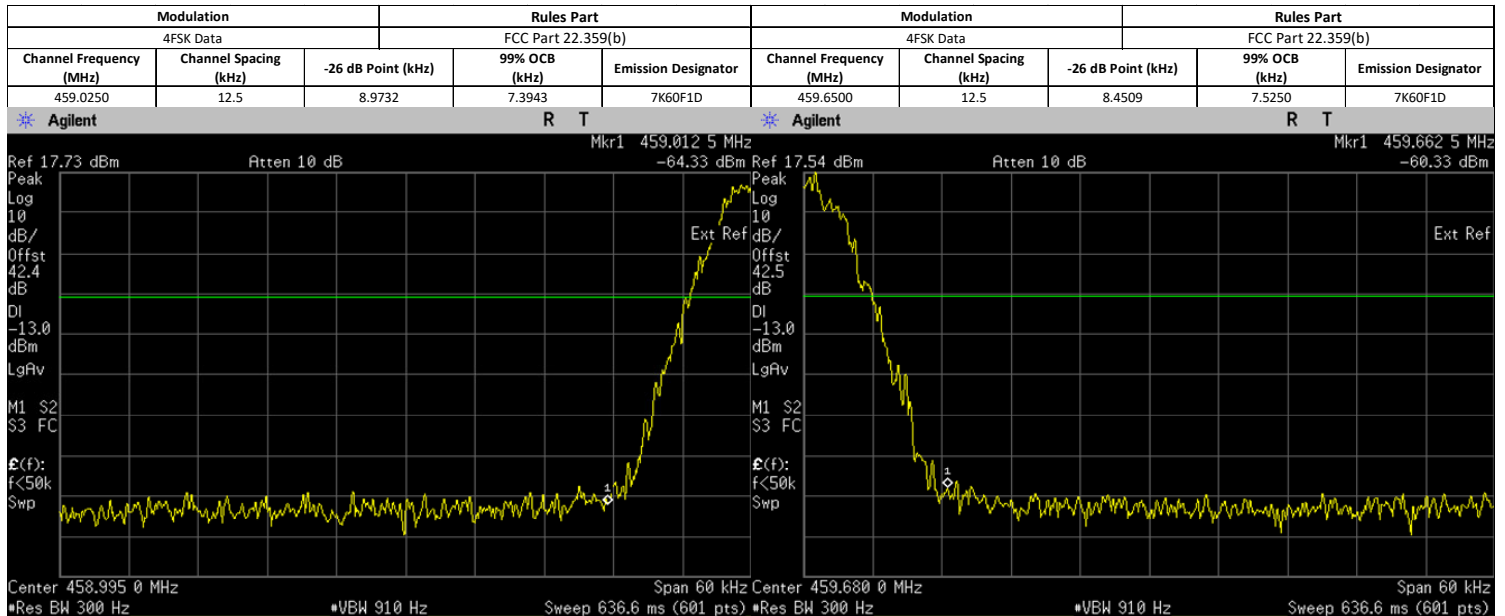
- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- For Digital Modulation, 12.5 kHz Data F1E & FXE would be the same. Therefore only measurements with F1E modulation shown below.

6.6.4. Test Result (Digital)

MAX POWER



LOW POWER

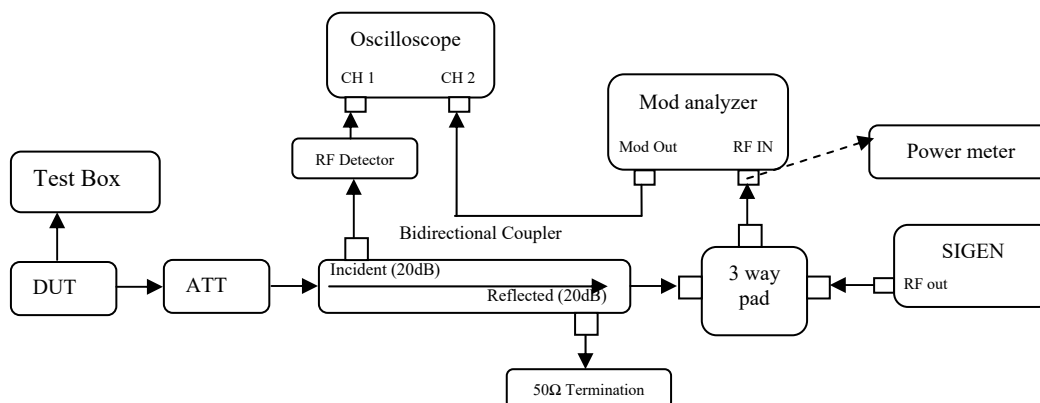


6.6.5. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

6.7. Transient Frequency Behavior

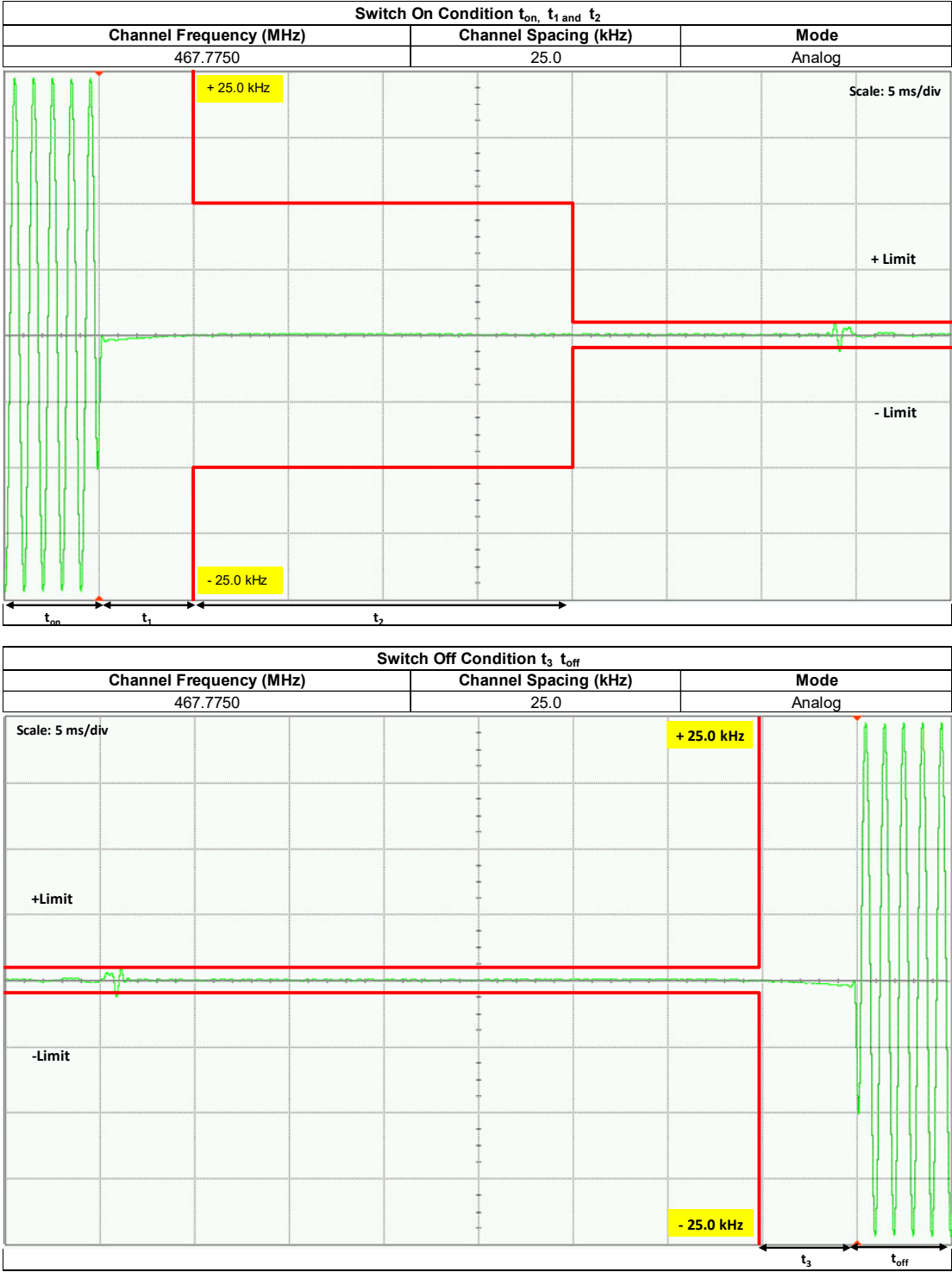
6.7.1. Test Setup

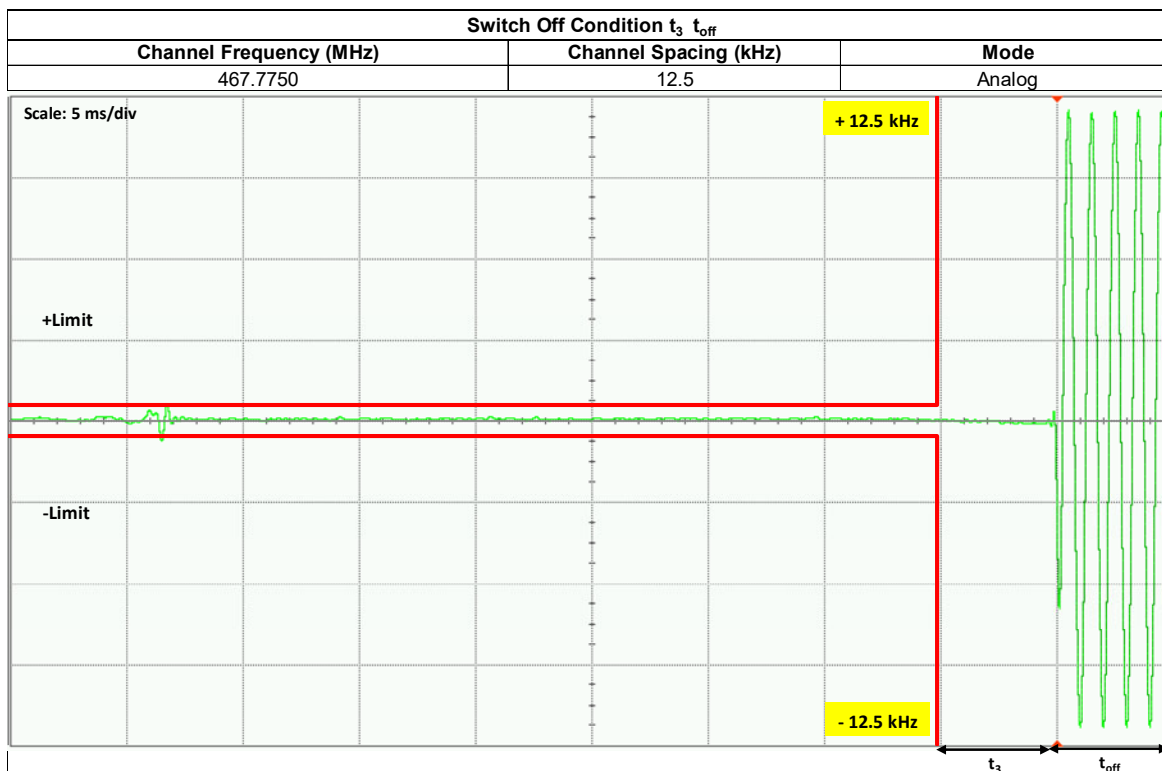
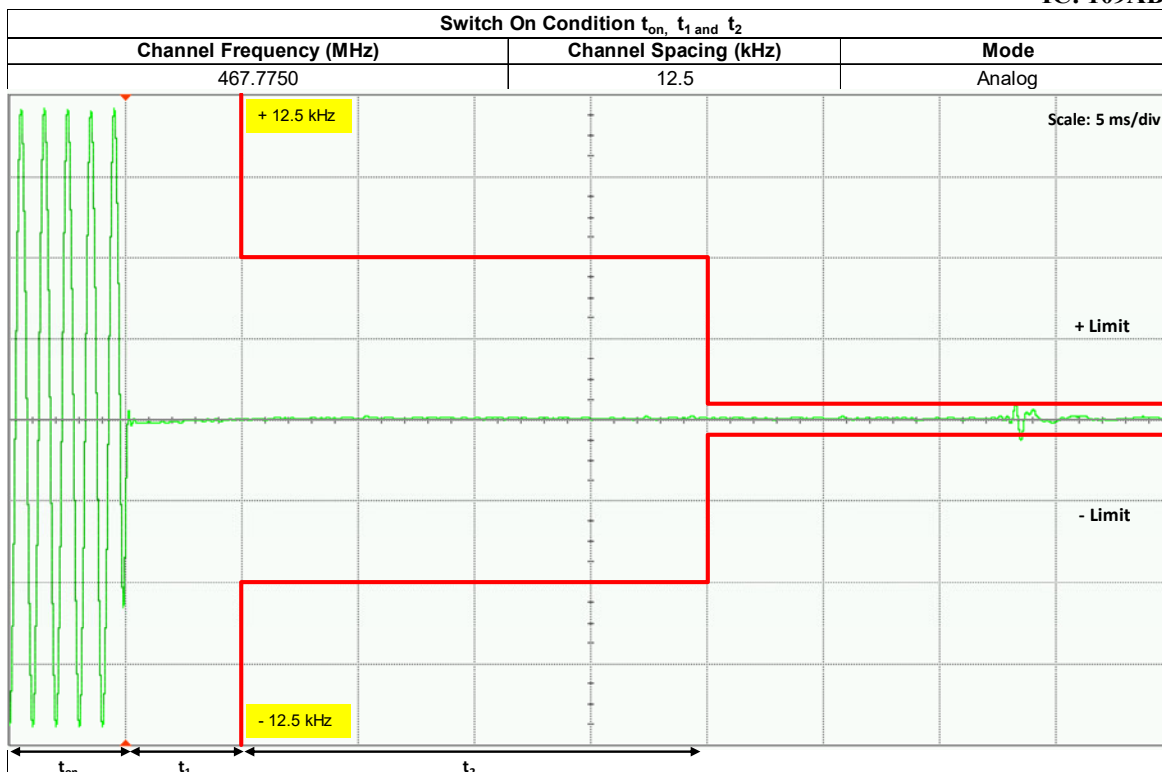


- 1) Connect the setup as figure above.
- 2) Path loss for the measurement included.
- 3) Set on Siggen with the assigned center frequency, internal 1 kHz FM tone.
FM Deviation: Analog 25kHz Channel Spacing = 25 kHz
Analog 12.5 kHz Channel Spacing = 12.5 kHz
C4FM = 12.5 kHz
- 4) Turn on 50 kHz high pass filter and 15 kHz low pass filter on modulation analyzer.
- 5) Supply sufficient attenuation ATT to provide the output power of $\leq -11\text{dBm}$ into power meter when DUT is keying up.
- 6) Note the power level on power meter and dekey the DUT.
- 7) Adjust the amplitude of the signal generator to the level power meter, maintained the amplitude throughout the rest of the measurement.
- 8) Connect the output to modulation analyzer.
- 9) Reduce 30dB attenuation and transmit the radio to get the trigger line.
- 10) Capture the screen shot for key-up (rising edge) and de-key (falling edge) mode.

6.7.2. Test Result

Not for FCC review





6.7.3. Test Limit

Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

Time intervals ^{1 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t ₁ ⁴	±25.0 kHz	5.0 ms	10.0 ms
t ₂	±12.5 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t ₁ ⁴	±12.5 kHz	5.0 ms	10.0 ms
t ₂	±6.25 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t ₁ ⁴	±6.25 kHz	5.0 ms	10.0 ms
t ₂	±3.125 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±6.25 kHz	5.0 ms	10.0 ms

¹ t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

t_{off} is the instant when the 1 kHz test signal starts to rise.

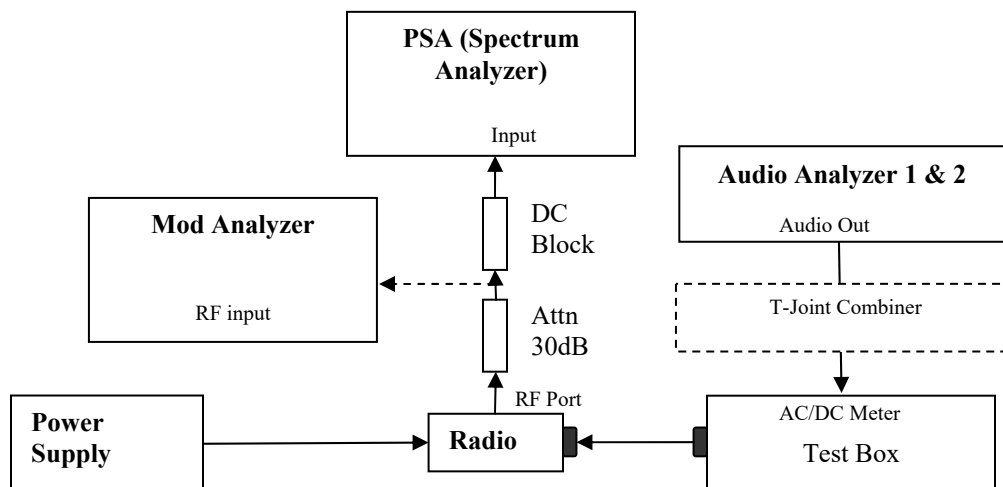
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

6.8. Adjacent Channel Power

6.8.1. Test Setup (Analog)

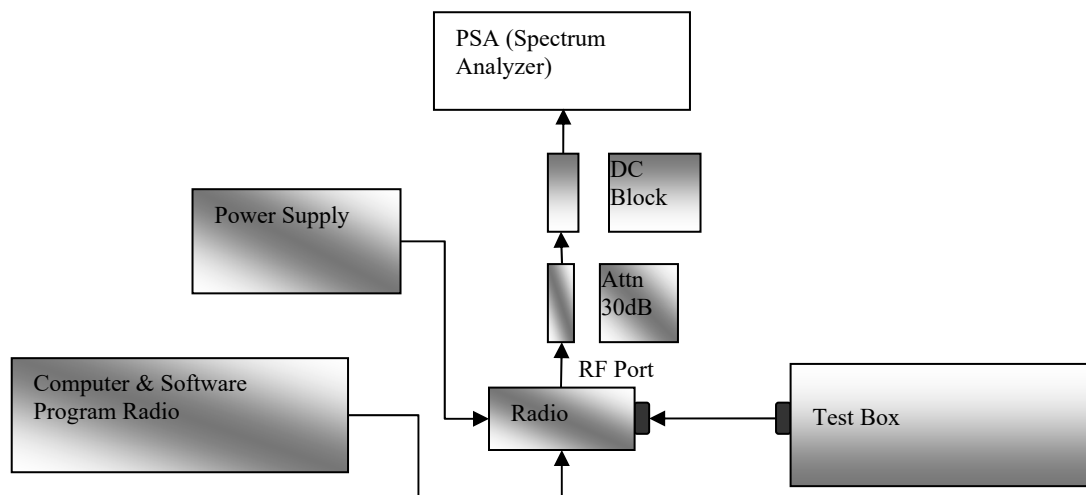


- 1) The DUT transmitter output port was connected to modulation analyzer.
- 2) Transmit the radio and turn on 1st audio analyzer with audio frequency 650Hz, 50% rated deviation, and record the amplitude value as AmpT1.
- 3) Turn off Audio analyzer 1 and turn on audio analyzer 2, set the audio frequency to 2.2 kHz and 50% deviation. Record the amplitude as AmpT2.
- 4) Turn both audio analyzers ON and up 10dB amplitude level.
- 5) Connect the output to PSA and set to assigned center frequency.
- 6) Set Span, Resolution Bandwidth and Video Bandwidth per rules part.
- 7) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.8.2. Test Result

Not Applicable.

6.8.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (4FSK, C4FM or other digital modulation form).
- 2) Prepare setup as per picture.
- 3) Turn on the ACP Measurement – Press Measure, ACP.
- 4) Set Span, Resolution Bandwidth and Video Bandwidth as per rules part.
- 5) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.8.4. Test Result

Not Applicable.

6.8.5. Test Limit

12.5 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP relative (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.50	25.00	-60
62.50	25.00	-65
87.50	25.00	-65
150.00	100	-65
250.00	100	-65
350.00	100	-65
>400 to 12 MHz	30 (s)	-75
12 MHz to paired receive band	30 (s)	-75
In the paired receive band	30 (s)	-100

25 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP relative (dBc)
15.625	6.25	-40
21.875	6.25	-60
37.50	25	-60
62.50	25	-65
87.50	25	-65
150.00	100	-65
250.00	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-75
12 MHz to paired receive band	30 (s)	-75
In the paired receive band	30 (s)	-100

12.5 kHz BASE TRANSMITTER ACP REQUIREMENTS

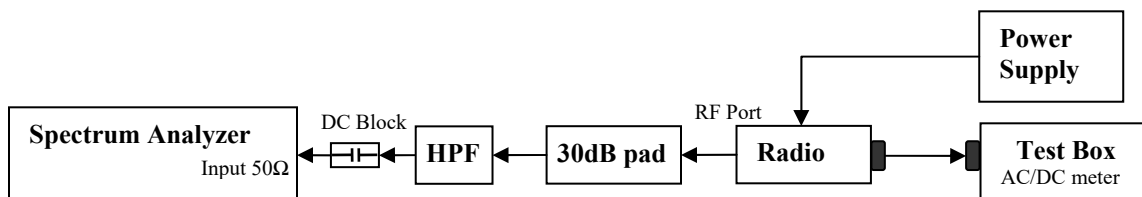
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band	30 (s)	¹ -85

25 kHz BASE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
15.625	6.25	-40
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350	100.00	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band	30 (s)	¹ -85

6.9. Conducted Spurious Emission

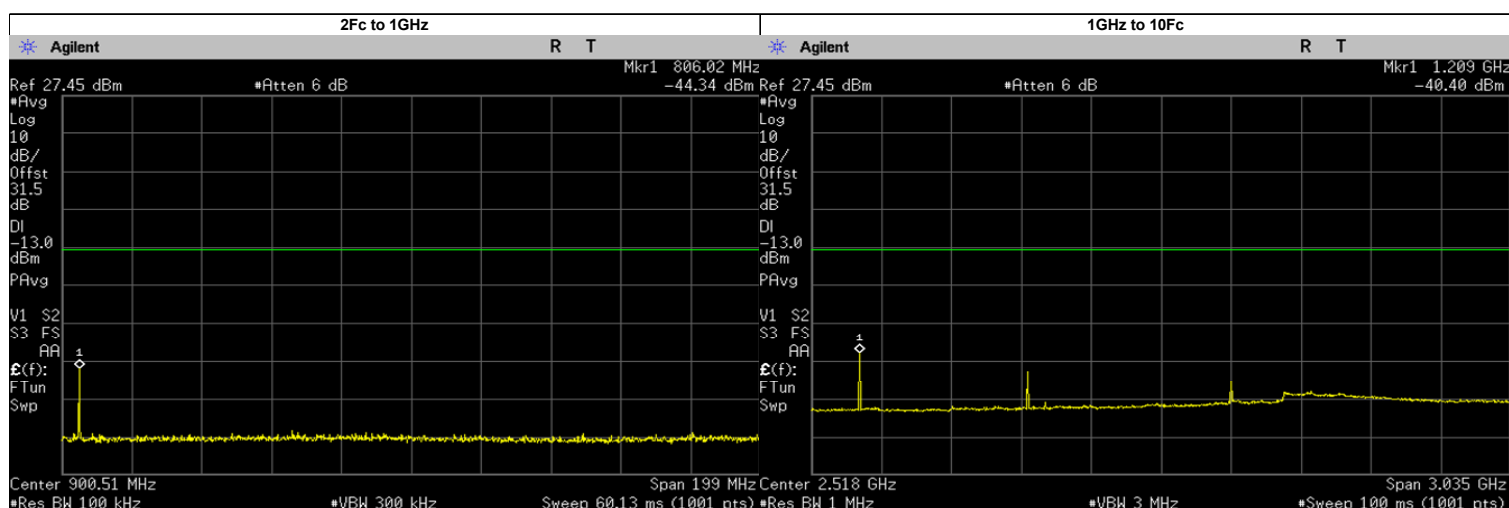
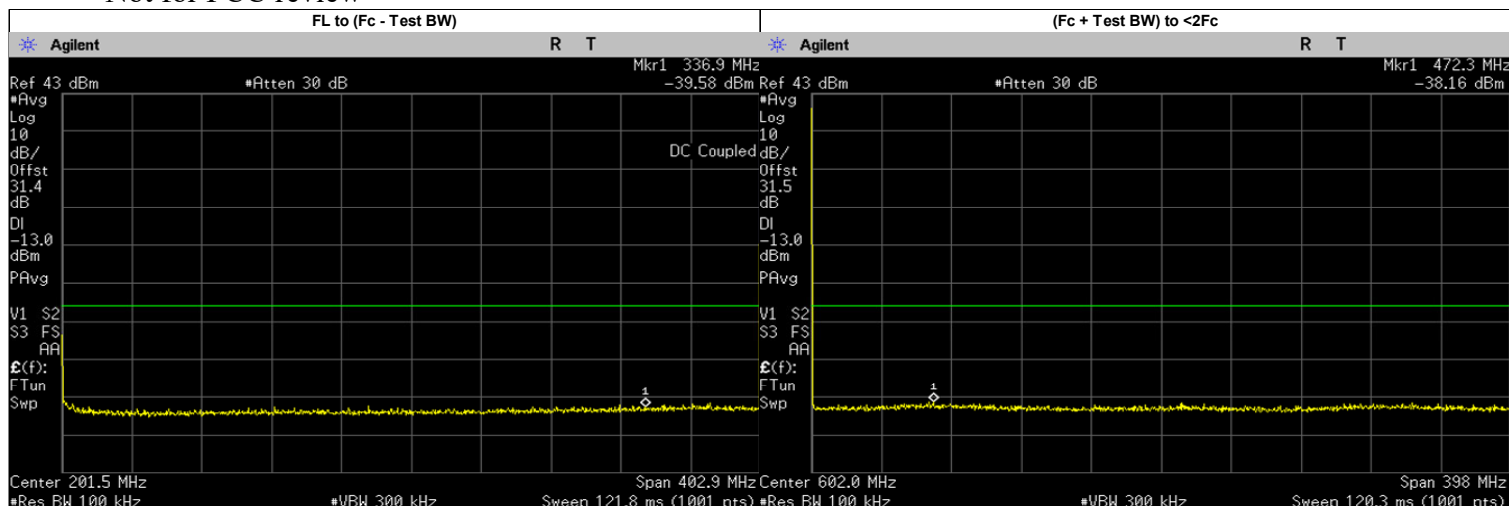
6.9.1. Test Setup



- 1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
- 2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
- 3) Path loss for the measurement included.
- 4) Set the PSA Resolution Bandwidth as per rules part.
- 5) Set the Ref offset from the pathloss offset calibration file.
- 6) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
 - a. 9 KHz to $F_c - \text{Test Bandwidth}$
 - b. $F_c + \text{Test Bandwidth}$ to $2F_c - 5\text{MHz}$.
- 7) Key up the DUT, Peak Search the highest Spur and record the levels of spurious emissions
- 8) Dekey the DUT.
- 9) Turn On High Pass Filter path and Key up the DUT.
- 10) Adjust the PSA Freq for incremental coverage of range from $2F_c$ to $10F_c$
- 11) Key up the DUT and record the highest spur levels of spurious emissions.

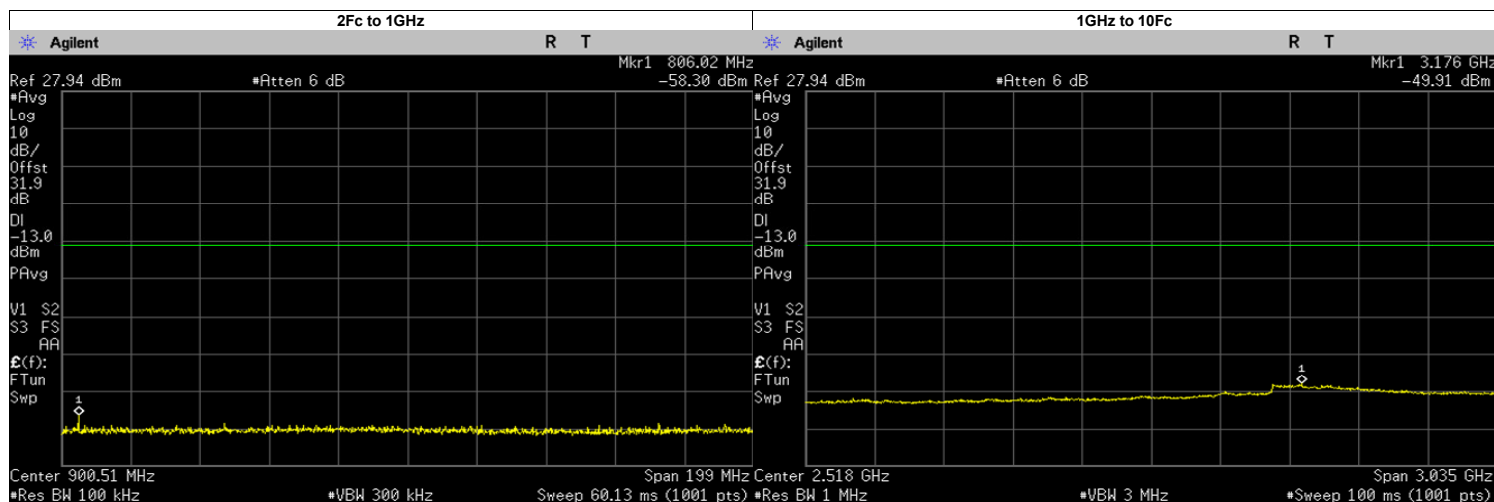
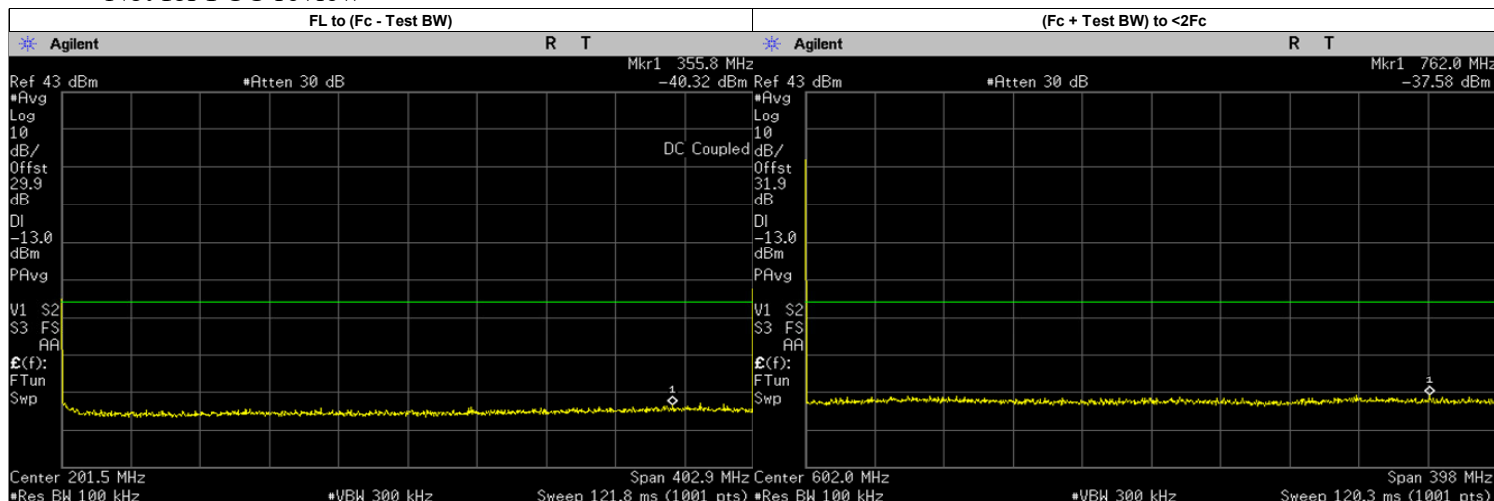
6.9.2. Test Result (Analog)

Analog: 403.0125. MHz, 25.kHz Channel Spacing, Max. Power
Not for FCC review



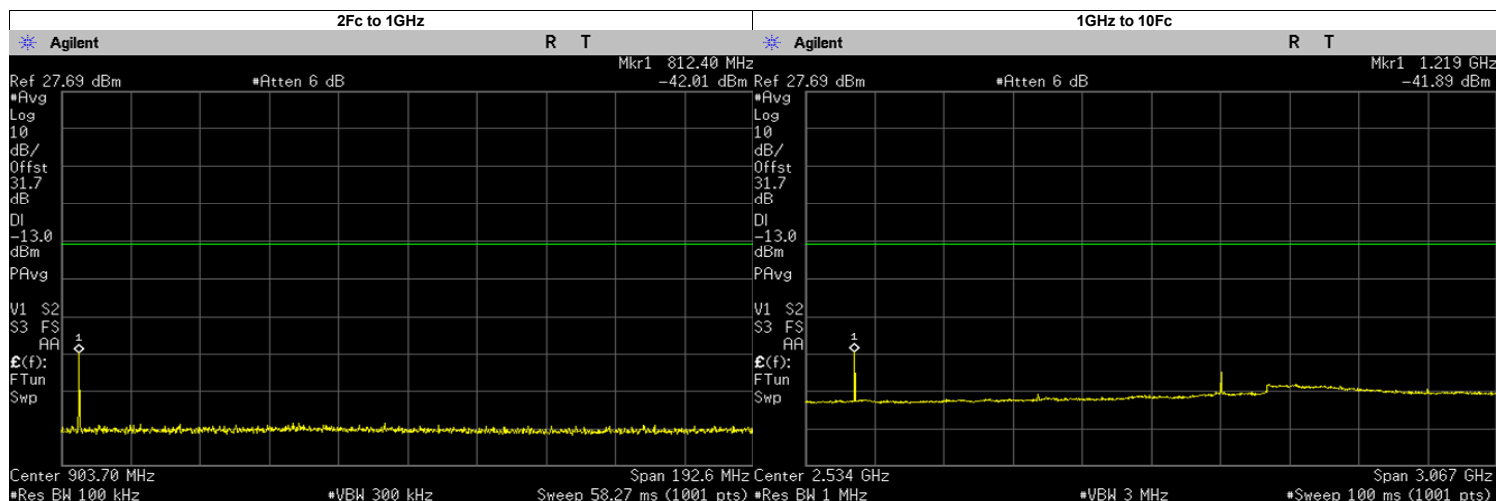
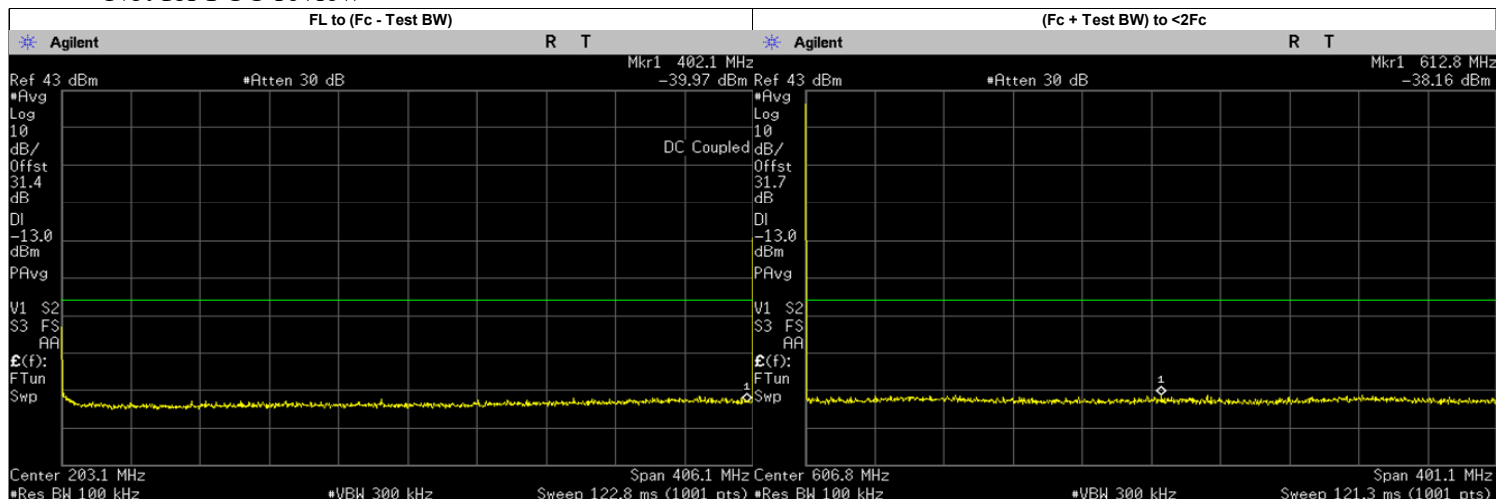
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	336.9000	-39.5830	-13.00	PASS
(Fc + Test BW) to <2Fc	472.3126	-38.1600	-13.00	PASS
2Fc to 1GHz	806.0250	-44.3400	-13.00	PASS
1GHz to 10Fc	1209.0000	-40.4000	-13.00	PASS
	1937.8540	-45.1700	-13.00	PASS
	1612.0500	-54.5291	-13.00	PASS
	2015.0620	-53.7322	-13.00	PASS
	2418.0750	-54.5128	-13.00	PASS
	2821.0880	-47.8797	-13.00	PASS
	3224.1000	-51.6134	-13.00	PASS
	3627.1130	-52.5524	-13.00	PASS
	4030.1250	-53.2631	-13.00	PASS

Analog: 403.0125. MHz, 25.kHz Channel Spacing, Low. Power
Not for FCC review



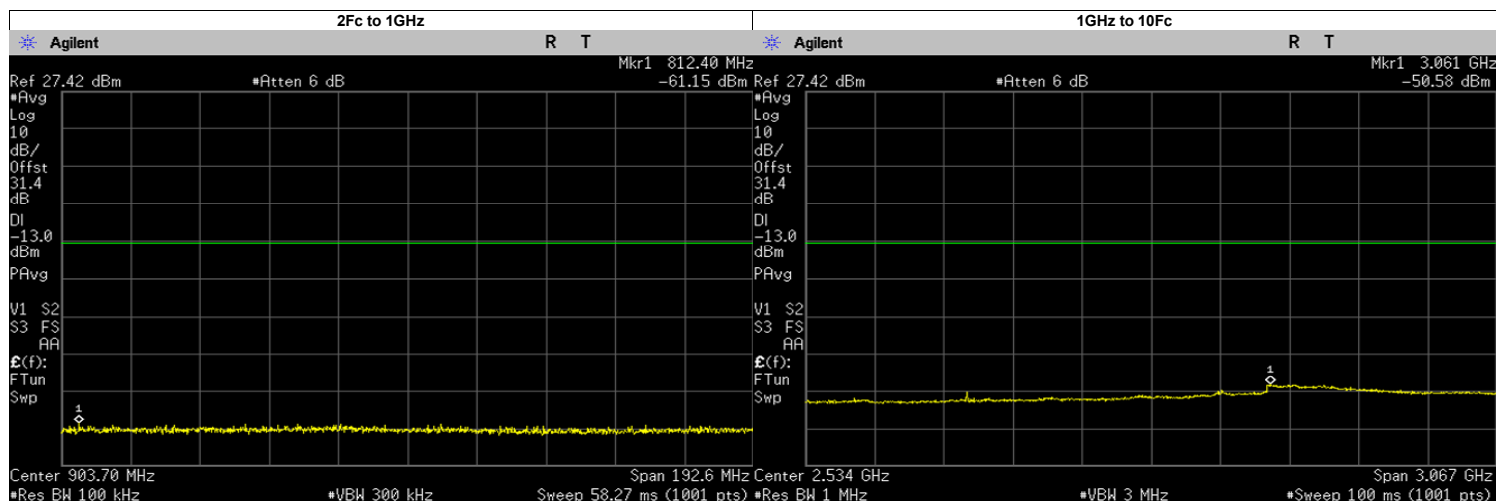
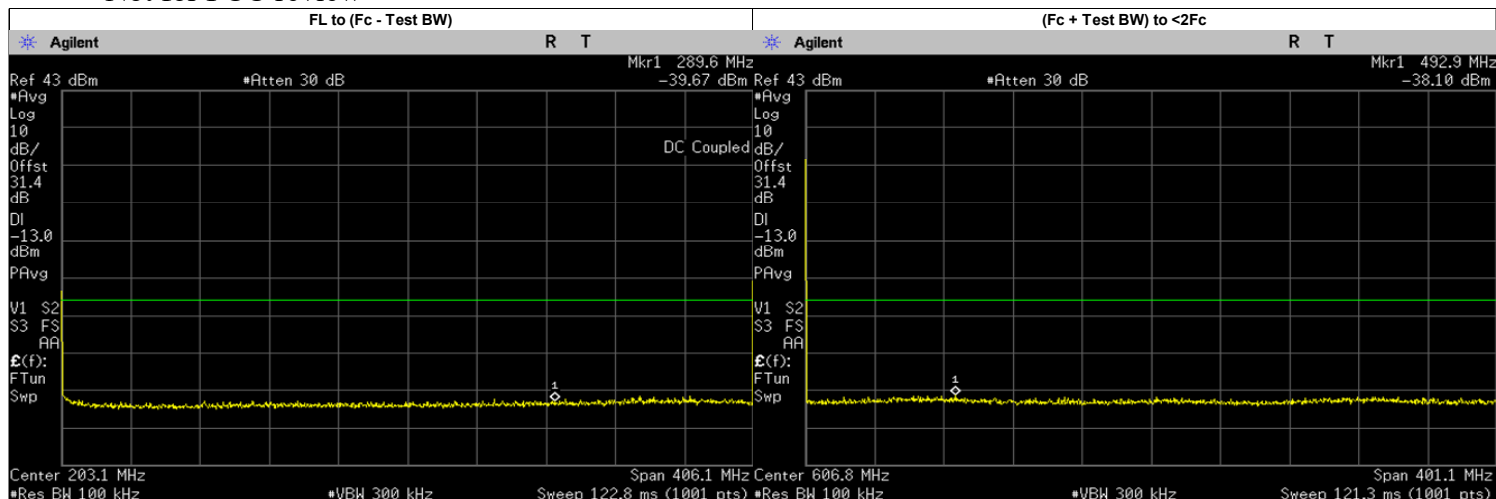
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	355.8000	-40.3210	-13.00	PASS
(Fc + Test BW) to <2Fc	762.0252	-37.5800	-13.00	PASS
2Fc to 1GHz	806.0250	-58.3000	-13.00	PASS
1GHz to 10Fc	3176.1850	-49.9100	-13.00	PASS
	1209.0370	-53.8234	-13.00	PASS
	1612.0500	-54.7654	-13.00	PASS
	2015.0620	-54.4092	-13.00	PASS
	2418.0750	-53.8582	-13.00	PASS
	2821.0880	-52.6940	-13.00	PASS
	3224.1000	-50.9553	-13.00	PASS
	3627.1130	-52.0708	-13.00	PASS
	4030.1250	-52.5296	-13.00	PASS

Analog: 406.2. MHz, 25.kHz Channel Spacing, Max. Power
Not for FCC review



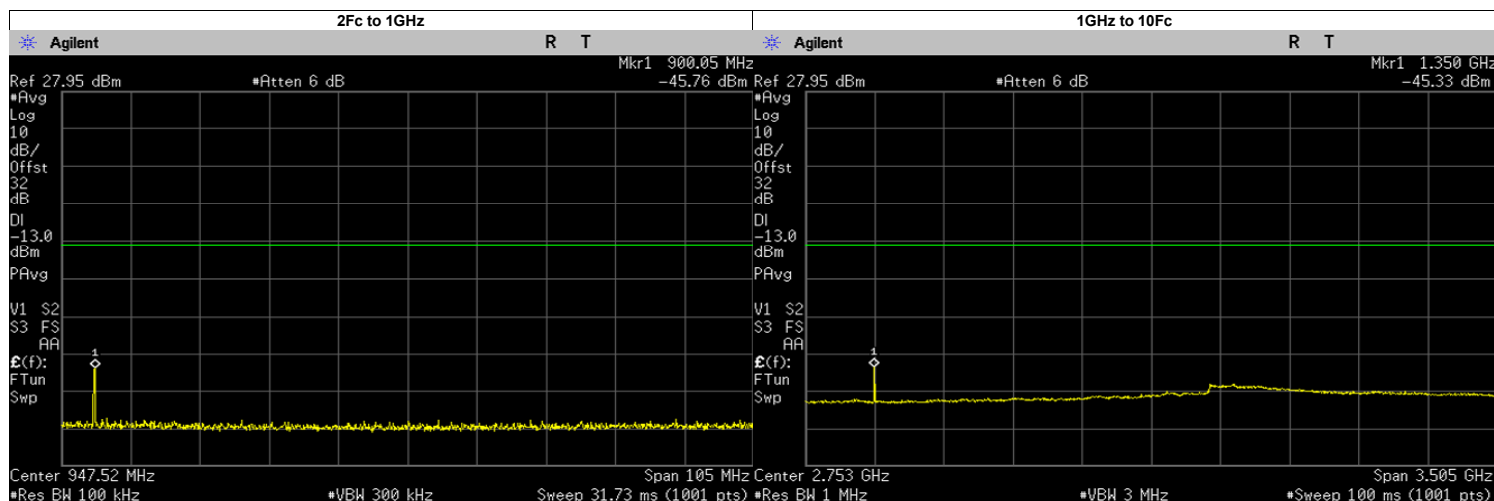
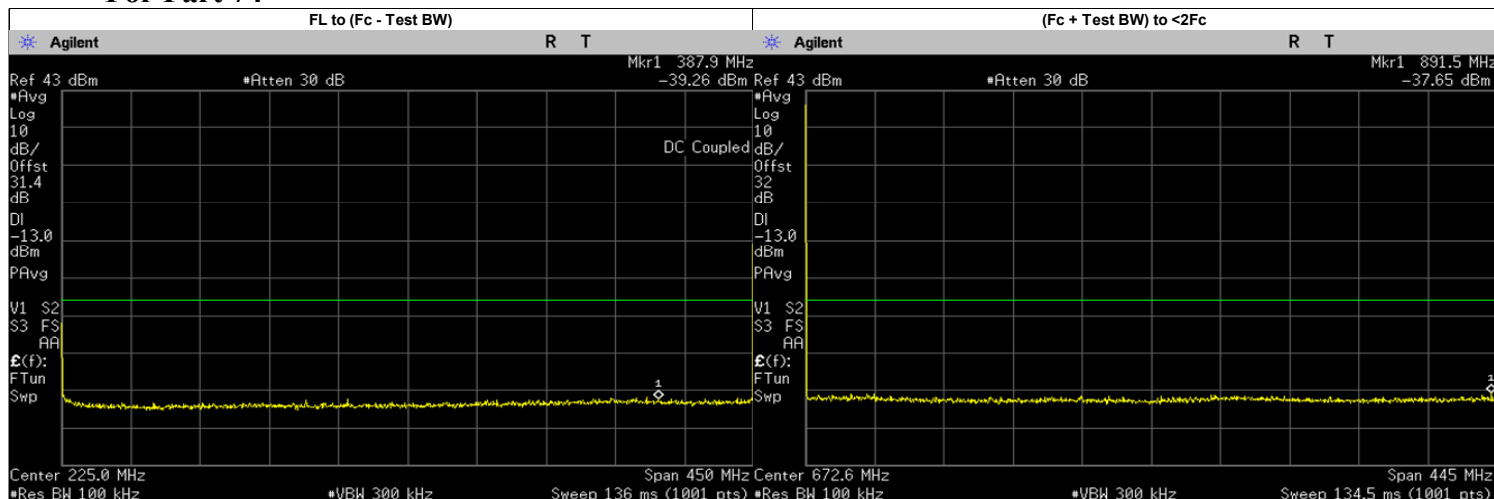
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	402.1000	-39.9720	-13.00	PASS
(Fc + Test BW) to <2Fc	612.8450	-38.1600	-13.00	PASS
2Fc to 1GHz	812.4000	-42.0100	-13.00	PASS
1GHz to 10Fc	1219.0000	-41.8900	-13.00	PASS
	3177.5700	-50.4500	-13.00	PASS
	1624.8000	-54.4280	-13.00	PASS
	2031.0000	-53.1202	-13.00	PASS
	2437.2000	-53.8382	-13.00	PASS
	2843.4000	-47.1846	-13.00	PASS
	3249.6000	-51.2225	-13.00	PASS
	3655.8000	-52.7123	-13.00	PASS
	4062.0000	-52.7833	-13.00	PASS

Analog: 406.2. MHz, 25.kHz Channel Spacing, Low. Power
Not for FCC review



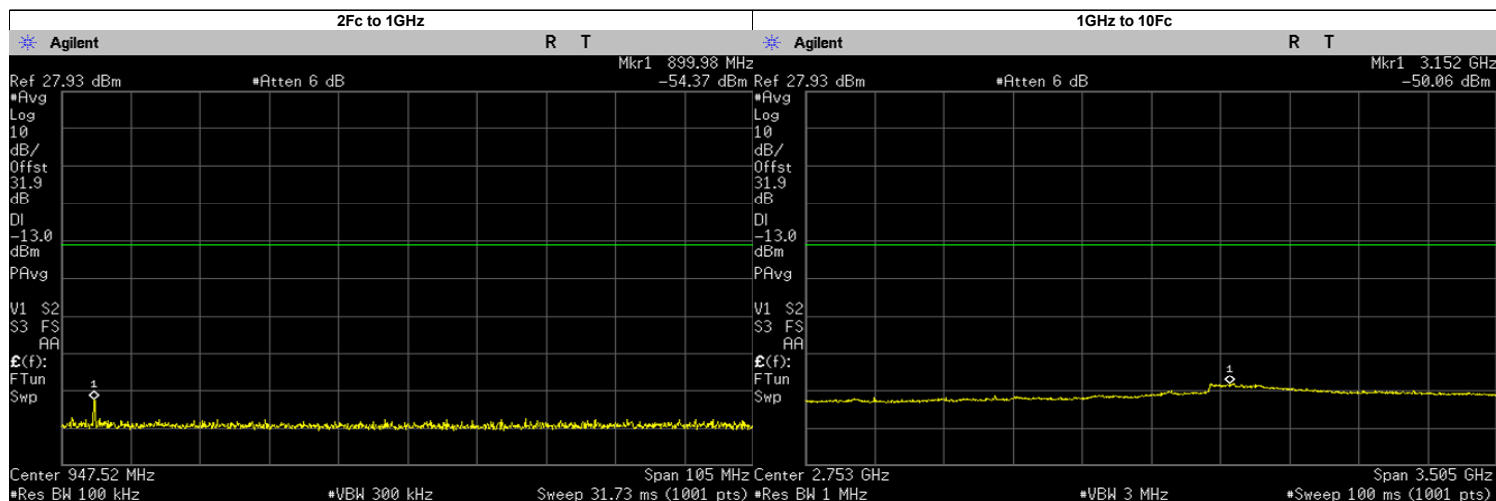
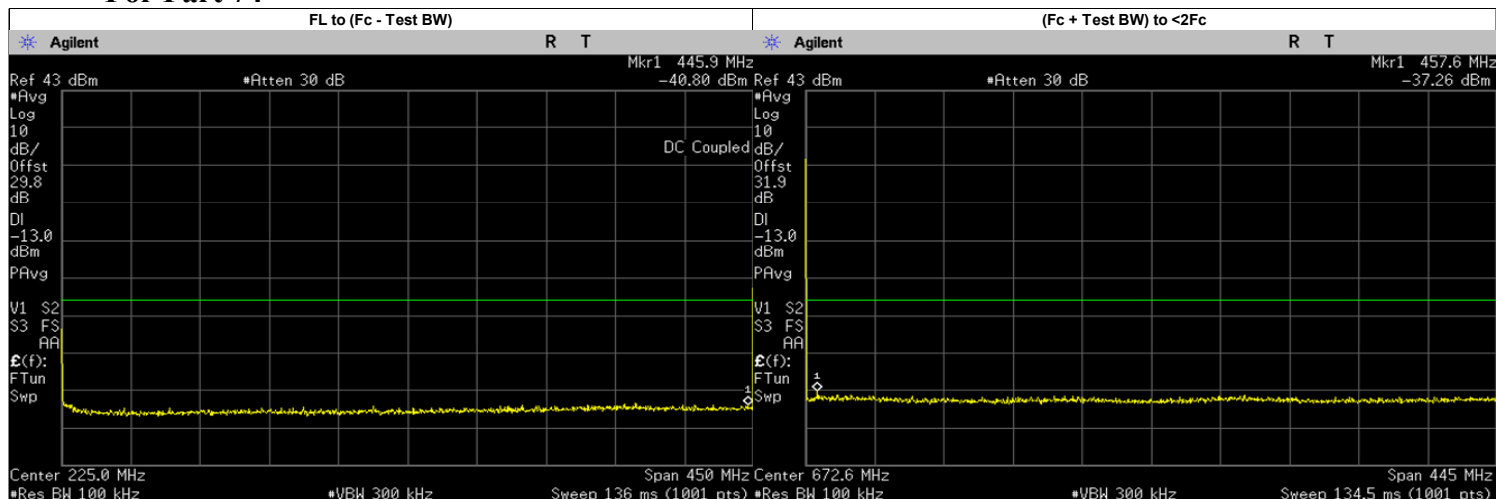
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	289.6000	-39.6680	-13.00	PASS
(Fc + Test BW) to <2Fc	492.9028	-38.1000	-13.00	PASS
2Fc to 1GHz	812.4000	-61.1500	-13.00	PASS
1GHz to 10Fc	3061.0240	-50.5800	-13.00	PASS
	1218.6000	-54.5776	-13.00	PASS
	1624.8000	-55.1855	-13.00	PASS
	2031.0000	-54.7112	-13.00	PASS
	2437.2000	-54.3140	-13.00	PASS
	2843.4000	-52.8686	-13.00	PASS
	3249.6000	-51.5603	-13.00	PASS
	3655.8000	-52.7008	-13.00	PASS
	4062.0000	-52.9600	-13.00	PASS

**Analog: 450.025. MHz, 25.kHz Channel Spacing, Max. Power
For Part 74**



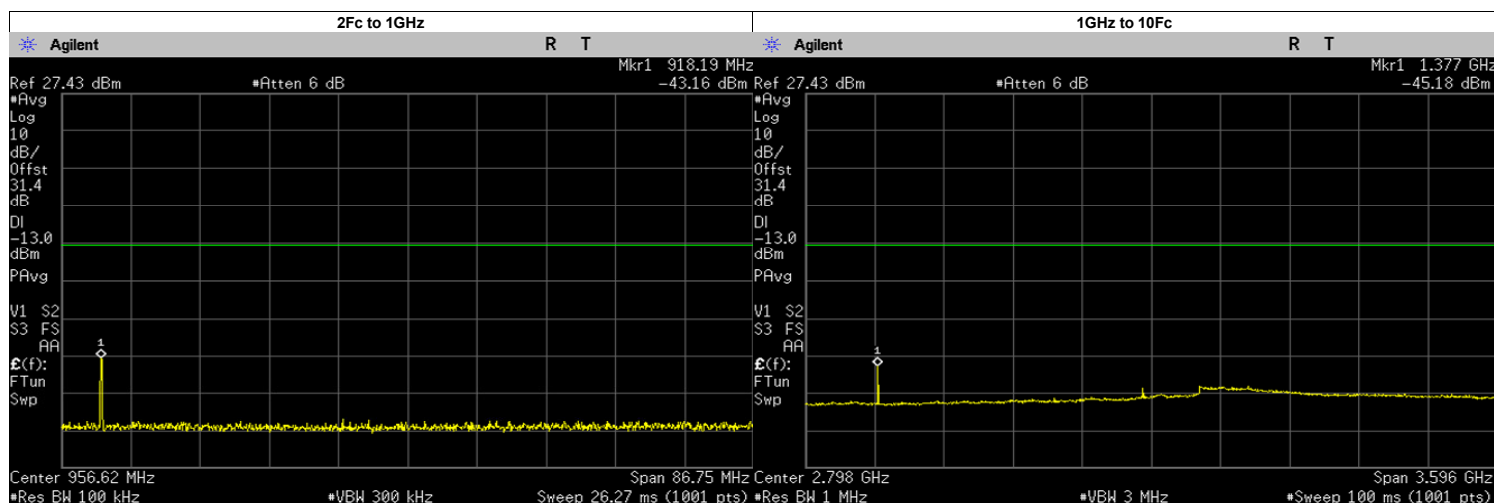
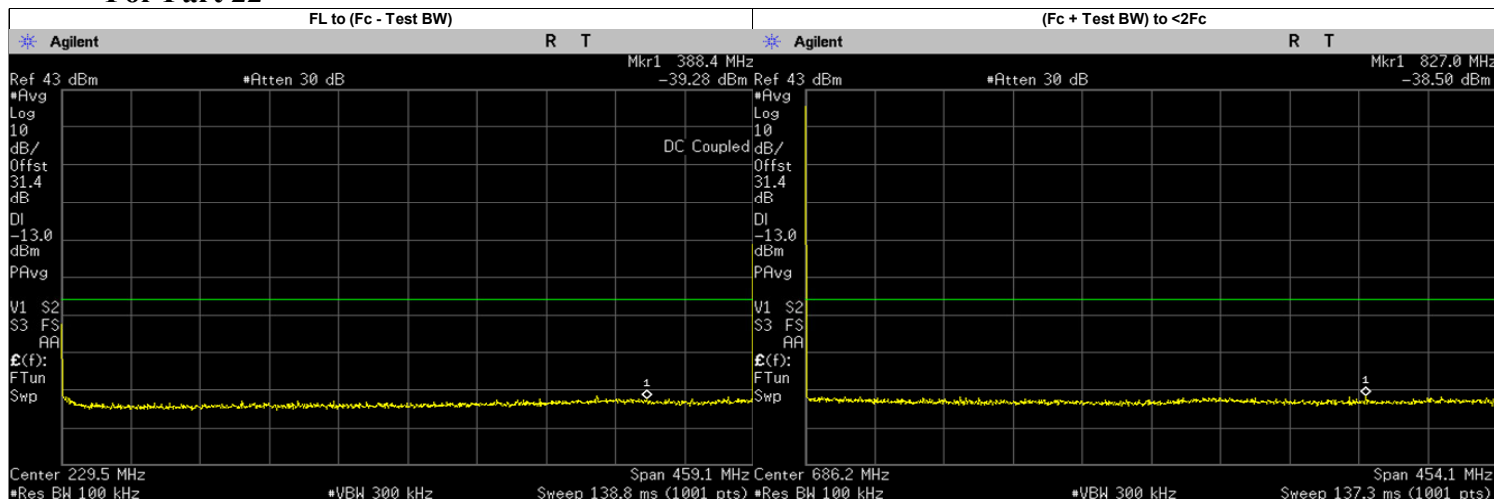
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	387.9000	-39.2590	-13.00	PASS
(Fc + Test BW) to <2Fc	891.4903	-37.6500	-13.00	PASS
2Fc to 1GHz	900.0500	-45.7600	-13.00	PASS
1GHz to 10Fc	1350.0000	-45.3300	-13.00	PASS
	3169.7500	-50.1300	-13.00	PASS
	1800.1000	-54.0503	-13.00	PASS
	2250.1250	-53.8529	-13.00	PASS
	2700.1500	-52.8661	-13.00	PASS
	3150.1750	-50.6347	-13.00	PASS
	3600.2000	-52.1713	-13.00	PASS
	4050.2250	-52.6928	-13.00	PASS
	4500.2500	-53.2018	-13.00	PASS

**Analog: 450.025. MHz, 25.kHz Channel Spacing, Low. Power
For Part 74**



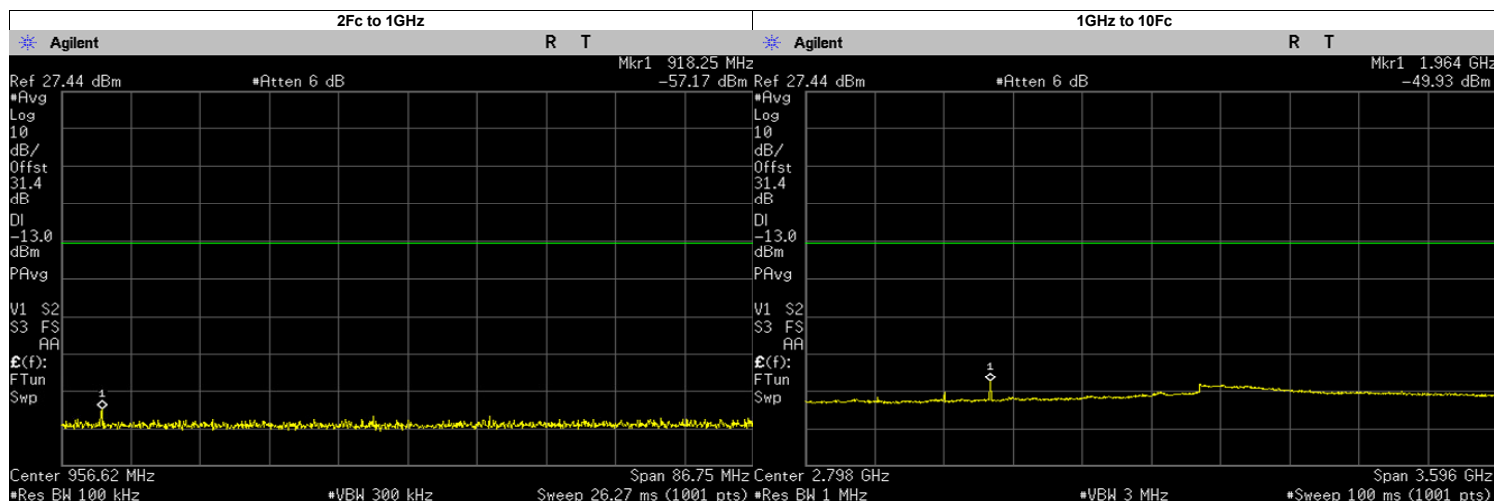
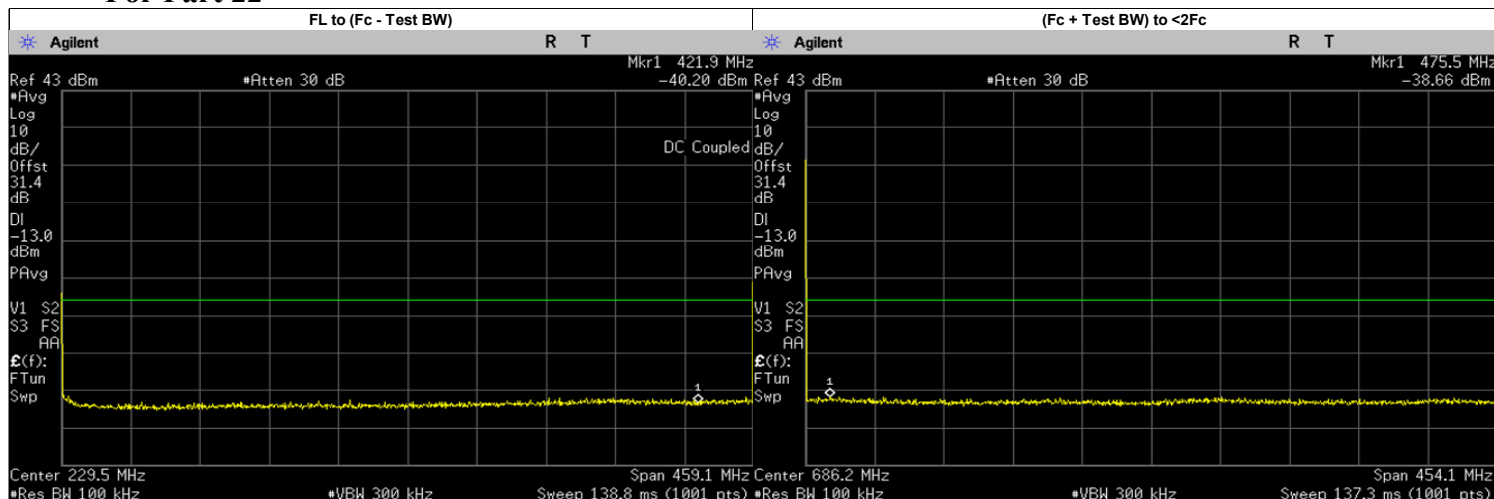
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	445.9000	-40.8010	-13.00	PASS
(Fc + Test BW) to <2Fc	457.6463	-37.2600	-13.00	PASS
2Fc to 1GHz	899.9827	-54.3700	-13.00	PASS
	900.0500	-54.4871	-13.00	PASS
1GHz to 10Fc	3152.2240	-50.0600	-13.00	PASS
	1350.0750	-53.9554	-13.00	PASS
	1800.1000	-54.1542	-13.00	PASS
	2250.1250	-54.2440	-13.00	PASS
	2700.1500	-53.3871	-13.00	PASS
	3150.1750	-50.5019	-13.00	PASS
	3600.2000	-52.1926	-13.00	PASS
	4050.2250	-52.5127	-13.00	PASS
	4500.2500	-53.2449	-13.00	PASS

**Analog: 459.125. MHz, 25.kHz Channel Spacing, Max. Power
For Part 22**



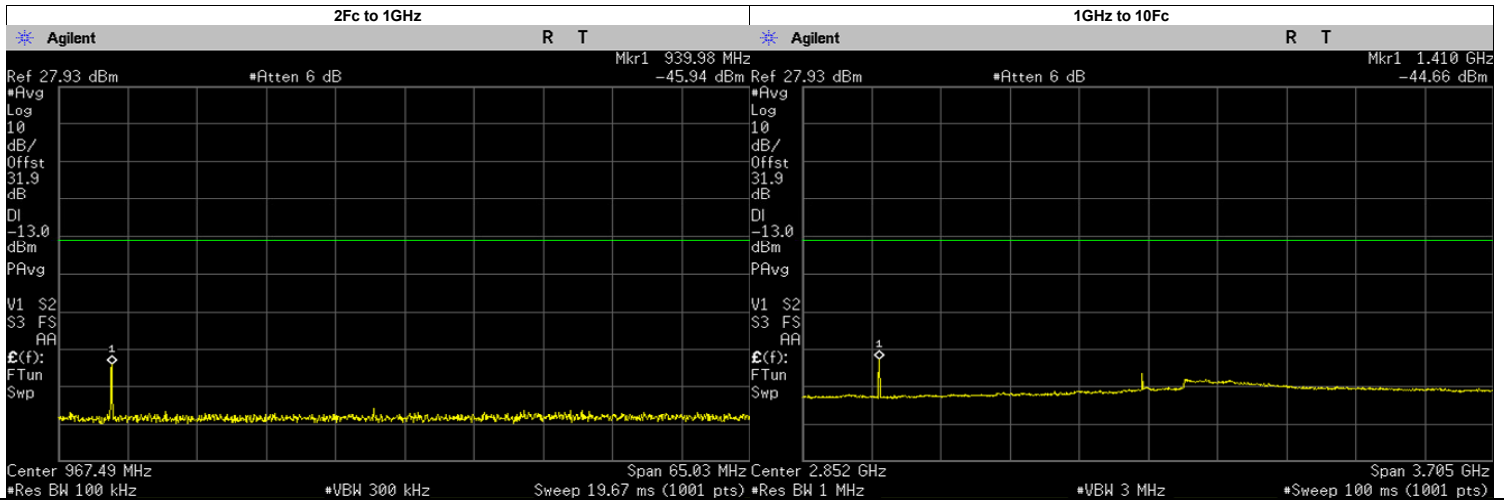
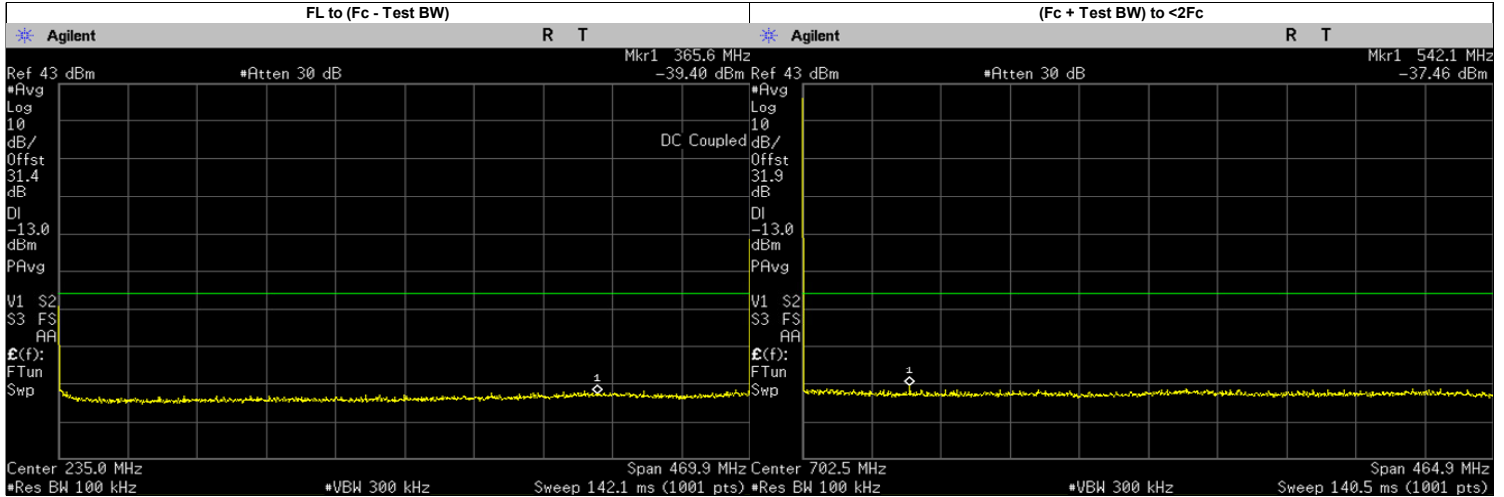
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	388.4000	-39.2830	-13.00	PASS
(Fc + Test BW) to <2Fc	826.9770	-38.5000	-13.00	PASS
2Fc to 1GHz	918.1947	-43.1600	-13.00	PASS
	918.2500	-43.4624	-13.00	PASS
1GHz to 10Fc	1377.0000	-45.1800	-13.00	PASS
	3049.8630	-50.5900	-13.00	PASS
	1836.5000	-54.6359	-13.00	PASS
	2295.6250	-54.1207	-13.00	PASS
	2754.7500	-51.3652	-13.00	PASS
	3213.8750	-51.2123	-13.00	PASS
	3673.0000	-52.7544	-13.00	PASS
	4132.1250	-53.2986	-13.00	PASS
	4591.2500	-53.6117	-13.00	PASS

**Analog: 459.125. MHz, 25.kHz Channel Spacing, Low. Power
For Part 22**



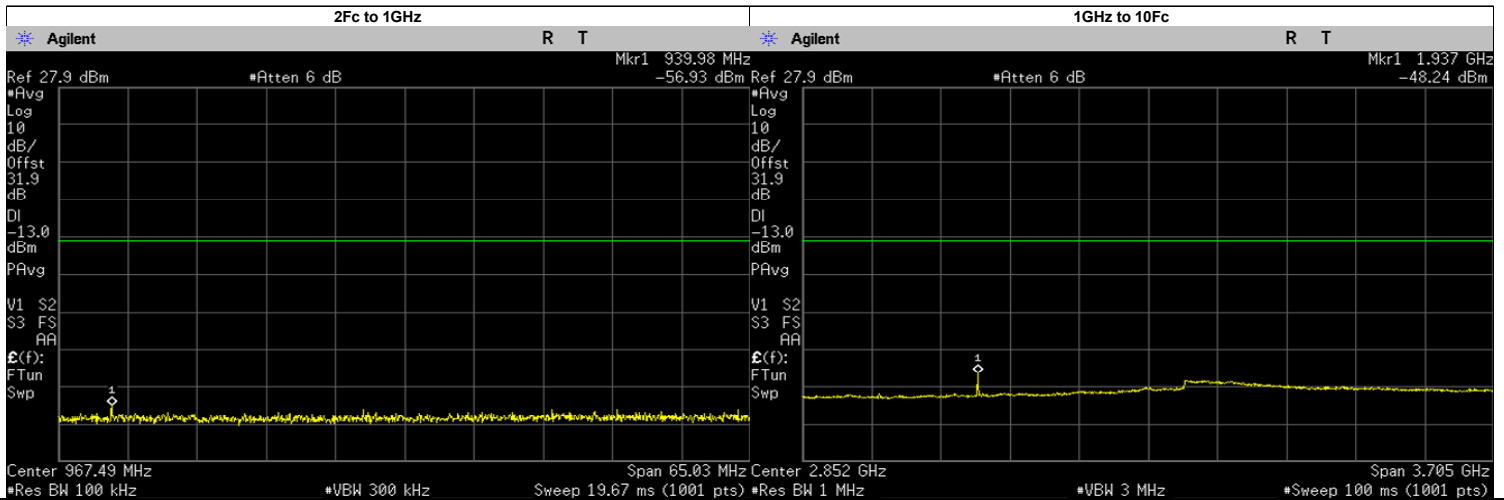
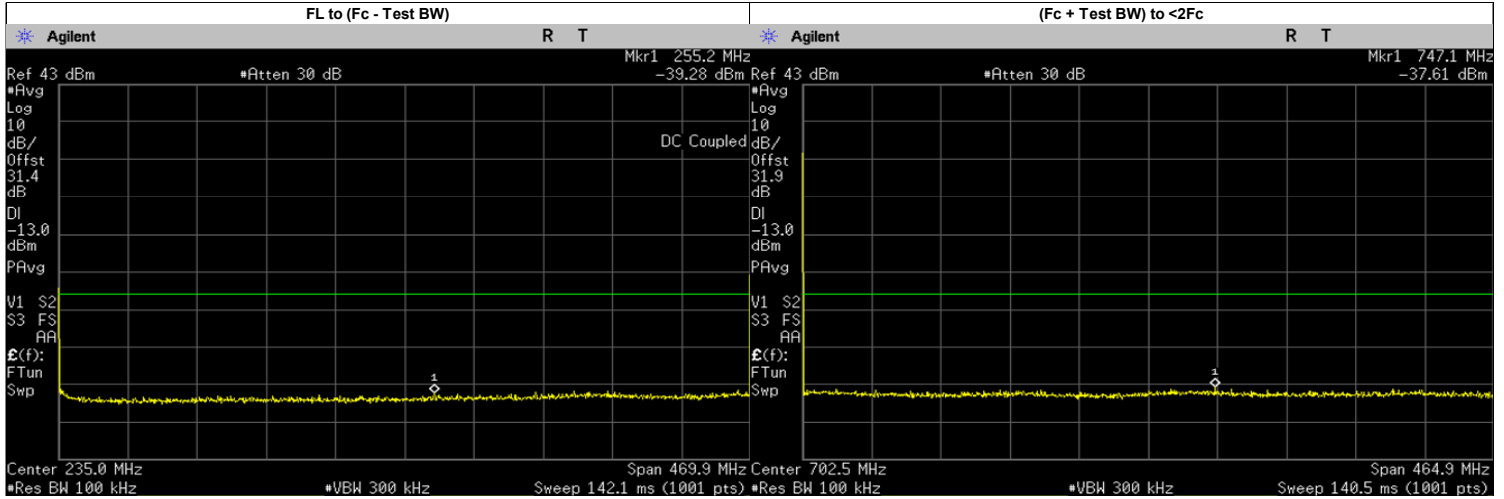
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	421.9000	-40.2020	-13.00	PASS
(Fc + Test BW) to <2Fc	475.5283	-38.6600	-13.00	PASS
2Fc to 1GHz	918.2500	-57.3832	-13.00	PASS
1GHz to 10Fc	1963.7950	-49.9300	-13.00	PASS
	1377.3750	-54.1772	-13.00	PASS
	1836.5000	-54.8751	-13.00	PASS
	2295.6250	-54.5111	-13.00	PASS
	2754.7500	-53.3743	-13.00	PASS
	3213.8750	-51.4500	-13.00	PASS
	3673.0000	-52.7827	-13.00	PASS
	4132.1250	-53.1393	-13.00	PASS
	4591.2500	-53.3290	-13.00	PASS

Analog: 469.9875. MHz, 25.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)	365.6000	-39.3980	-13.00	PASS
(Fc + Test BW) to <2Fc	542.1086	-37.4600	-13.00	PASS
2Fc to 1GHz	939.9750	-45.9400	-13.00	PASS
1GHz to 10Fc	1410.0000	-44.6600	-13.00	PASS
	3059.9100	-50.1300	-13.00	PASS
	1879.9500	-54.2760	-13.00	PASS
	2349.9370	-53.5380	-13.00	PASS
	2819.9250	-49.5509	-13.00	PASS
	3289.9120	-50.3677	-13.00	PASS
	3759.9000	-52.5112	-13.00	PASS
	4229.8870	-52.9854	-13.00	PASS
	4699.8750	-53.0277	-13.00	PASS

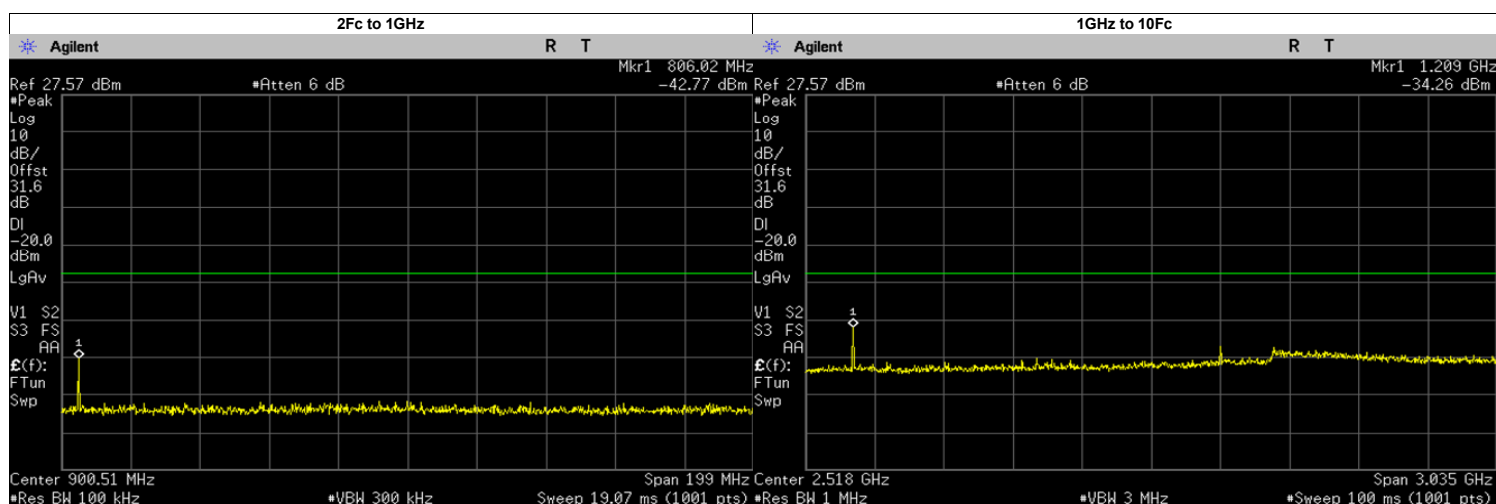
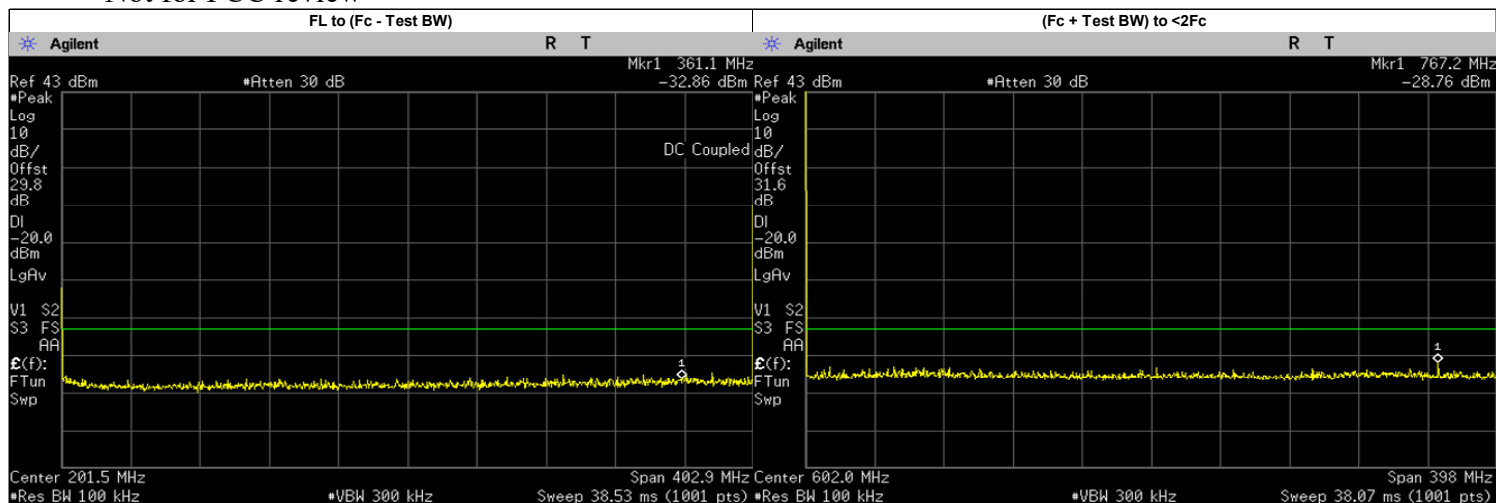
Analog: 469.9875. MHz, 25.kHz Channel Spacing, Low. Power
 Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	255.2000	-39.2780	-13.00	PASS
(Fc + Test BW) to <2Fc	747.1430	-37.6100	-13.00	PASS
2Fc to 1GHz	939.9750	-56.9300	-13.00	PASS
1GHz to 10Fc	1937.3330	-48.2400	-13.00	PASS
	1409.9630	-54.0721	-13.00	PASS
	1879.9500	-54.3209	-13.00	PASS
	2349.9370	-54.1798	-13.00	PASS
	2819.9250	-52.7806	-13.00	PASS
	3289.9120	-50.7886	-13.00	PASS
	3759.9000	-52.5089	-13.00	PASS
	4229.8870	-52.8413	-13.00	PASS
	4699.8750	-53.0316	-13.00	PASS

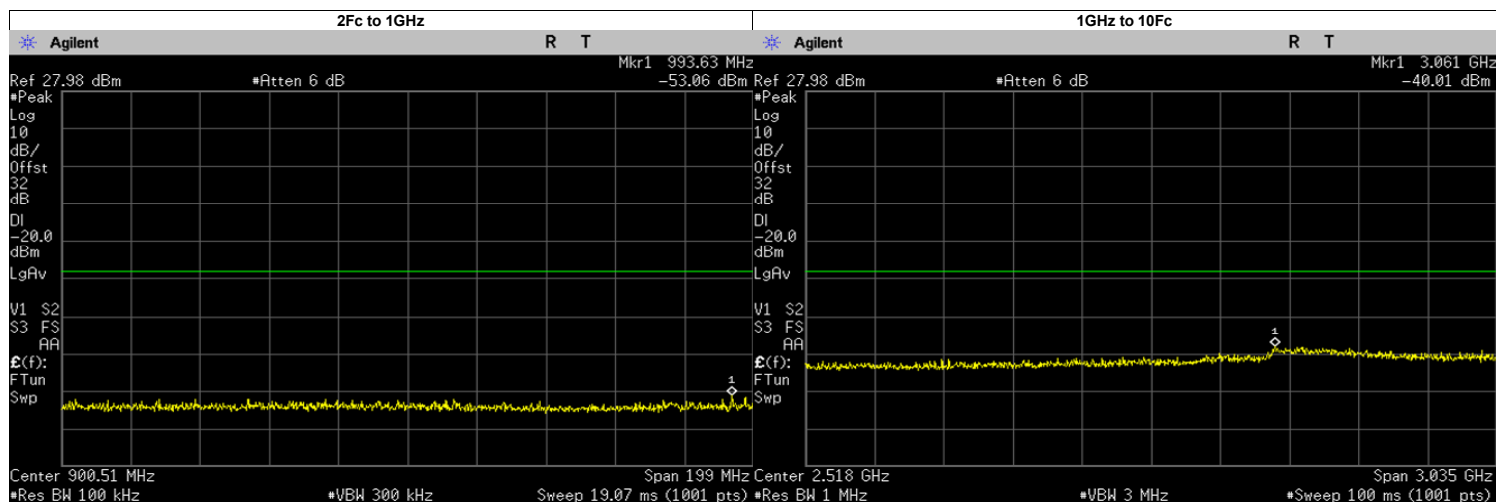
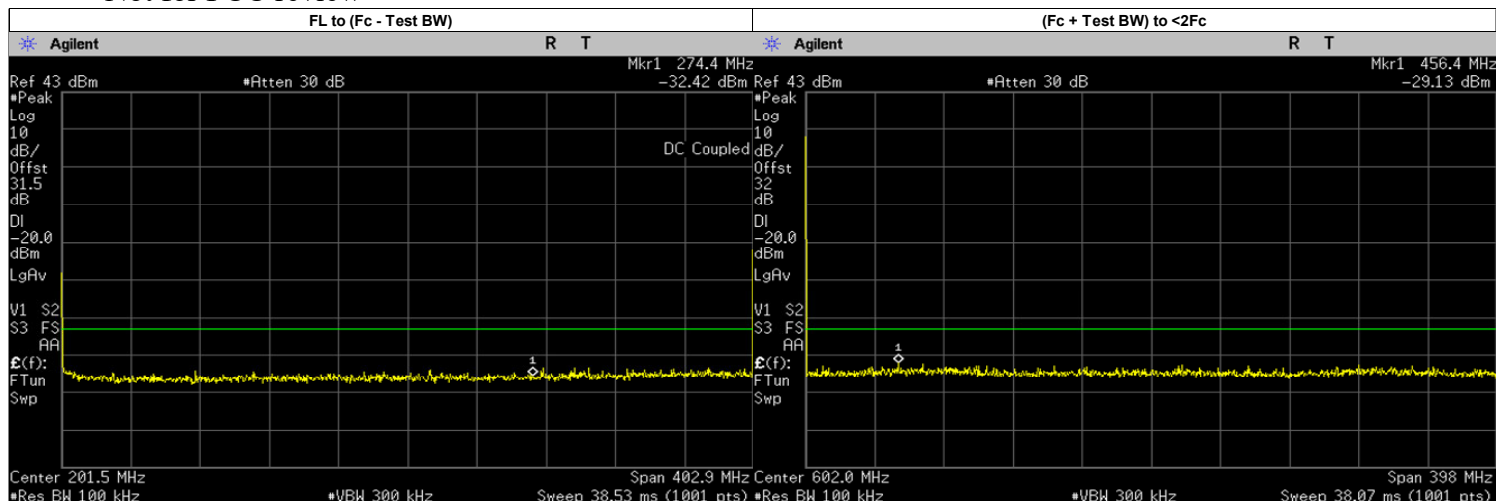
6.9.3. Test Result (Digital)

Digital.: 403.0125. MHz, 12.5 kHz Channel Spacing, Max. Power
Not for FCC review



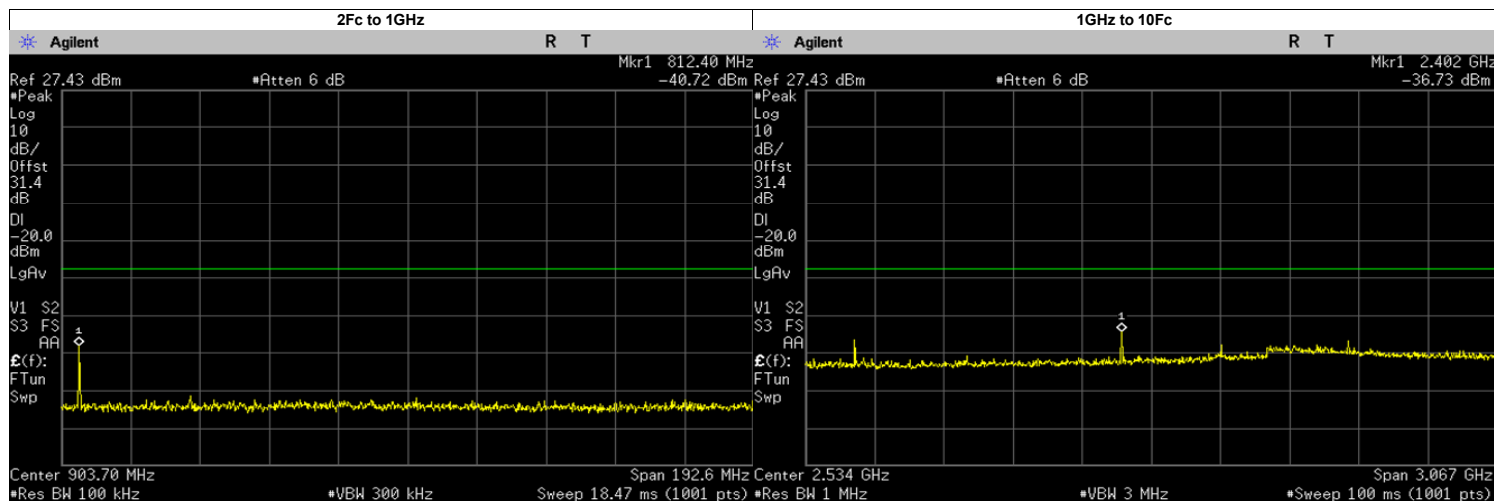
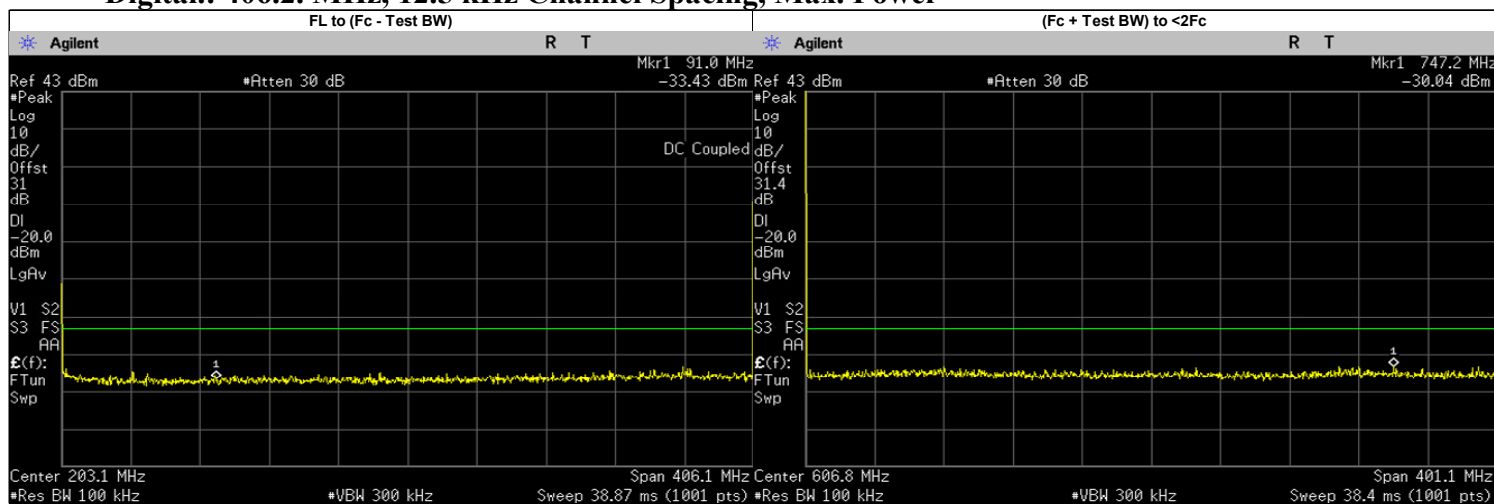
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	361.1000	-32.8580	-20.00	PASS
(Fc + Test BW) to <2Fc	767.1987	-28.7600	-20.00	PASS
2Fc to 1GHz	806.0250	-42.7700	-20.00	PASS
1GHz to 10Fc	1209.0000	-34.2600	-20.00	PASS
	1612.0500	-43.9266	-20.00	PASS
	2015.0620	-43.3317	-20.00	PASS
	2418.0750	-44.9363	-20.00	PASS
	3224.1000	-41.9379	-20.00	PASS
	3627.1130	-42.9234	-20.00	PASS
	4030.1250	-43.9033	-20.00	PASS
	3057.8150	-39.9000	-20.00	PASS
	2821.0880	-39.4481	-20.00	PASS

Digital.: 403.0125. MHz, 12.5 kHz Channel Spacing, Low. Power
Not for FCC review



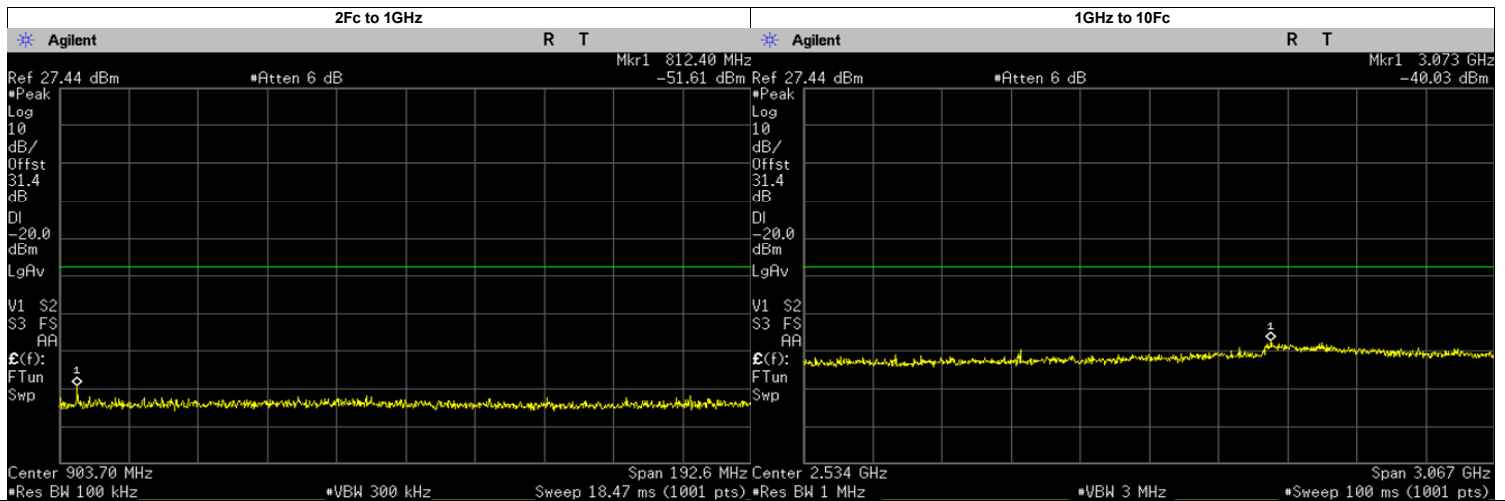
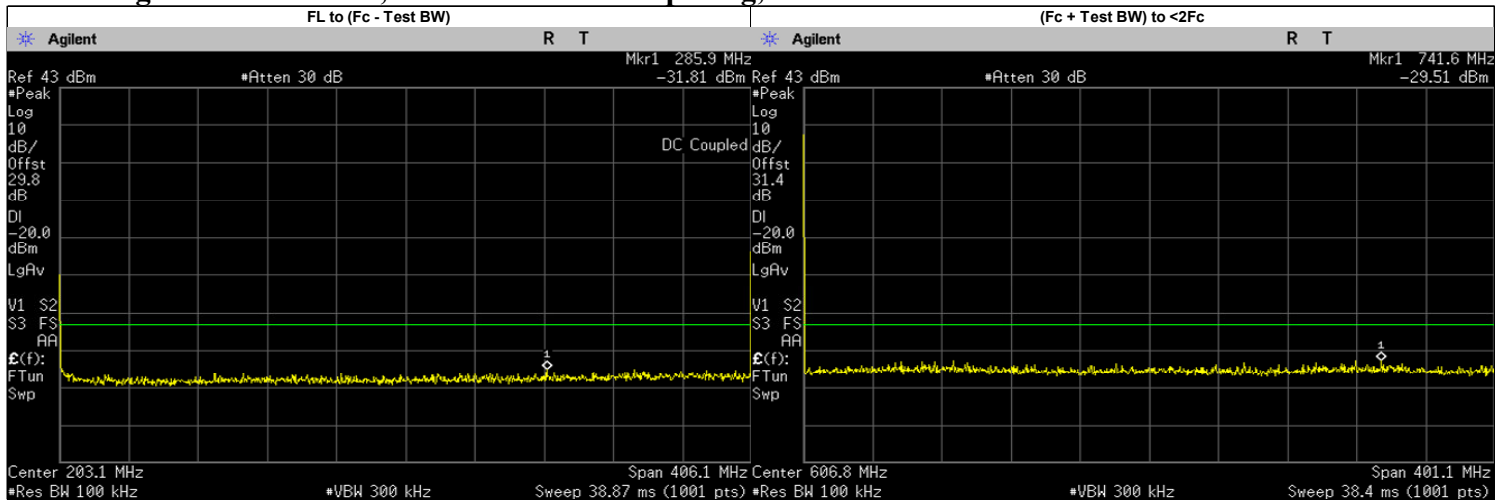
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	274.4000	-32.4170	-20.00	PASS
(Fc + Test BW) to <2Fc	456.3943	-29.1300	-20.00	PASS
2Fc to 1GHz	993.6328	-53.0600	-20.00	PASS
	806.0250	-55.3659	-20.00	PASS
1GHz to 10Fc	3060.8500	-40.0100	-20.00	PASS
	1209.0370	-44.9693	-20.00	PASS
	1612.0500	-45.2477	-20.00	PASS
	2015.0620	-45.2956	-20.00	PASS
	2418.0750	-43.7560	-20.00	PASS
	2821.0880	-42.8293	-20.00	PASS
	3224.1000	-41.2450	-20.00	PASS
	3627.1130	-42.4830	-20.00	PASS
	4030.1250	-43.5709	-20.00	PASS

Digital.: 406.2. MHz, 12.5 kHz Channel Spacing, Max. Power



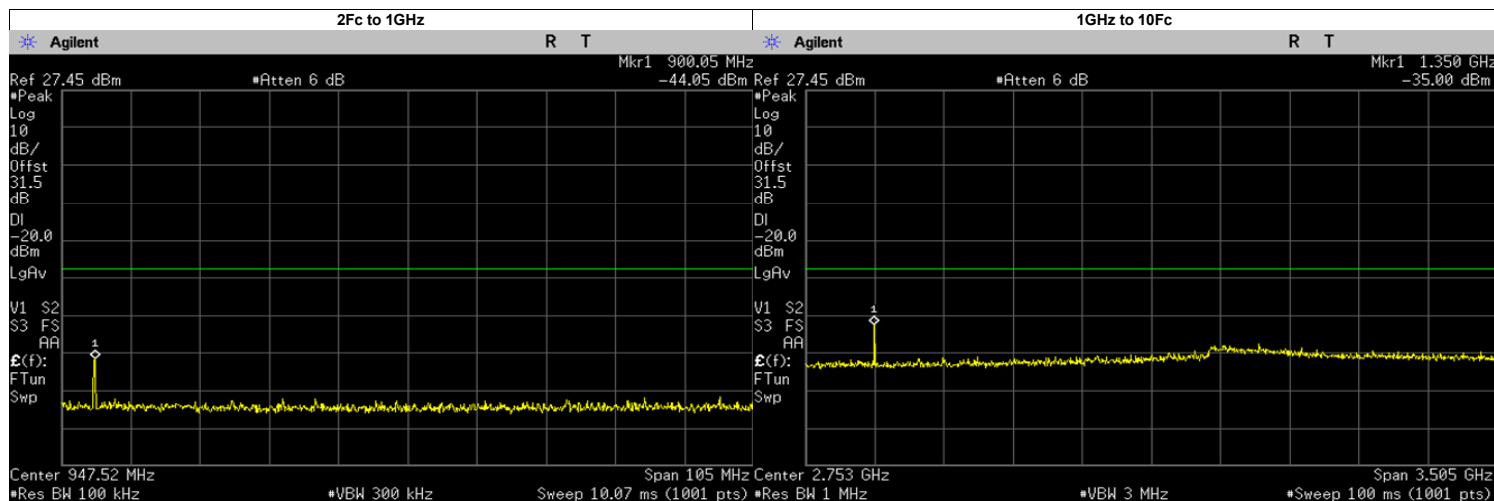
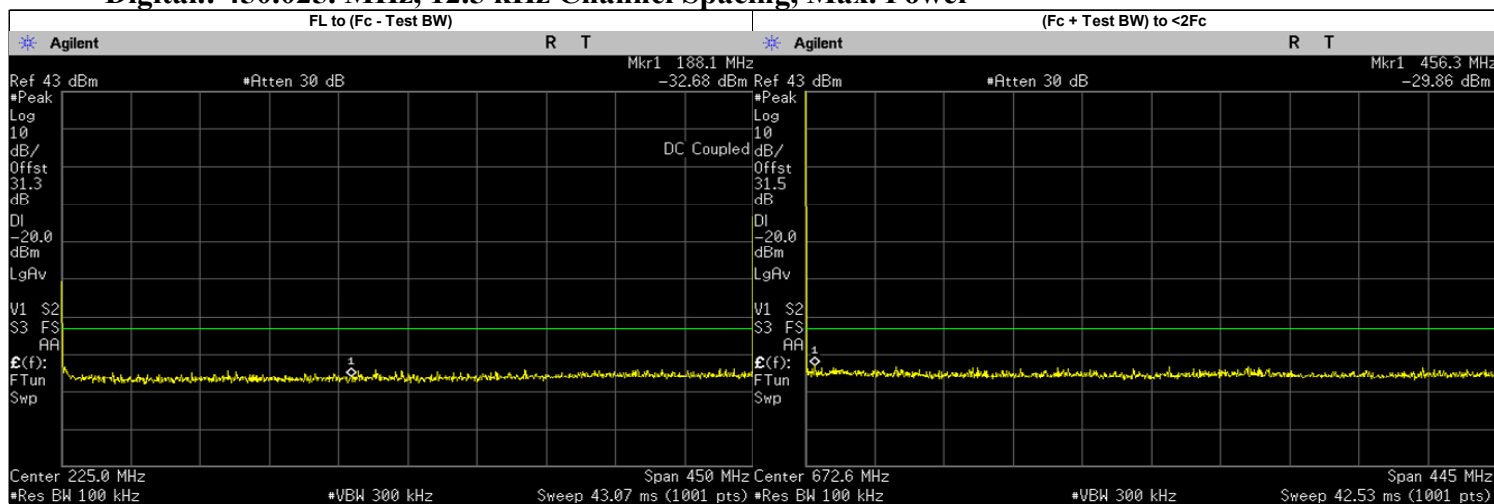
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	91.0000	-33.4300	-20.00	PASS
(Fc + Test BW) to <2Fc	747.2283	-30.0400	-20.00	PASS
2Fc to 1GHz	812.4000	-40.7200	-20.00	PASS
1GHz to 10Fc	2402.0000	-36.7300	-20.00	PASS
	1218.6000	-40.2785	-20.00	PASS
	1624.8000	-45.3539	-20.00	PASS
	2031.0000	-44.2554	-20.00	PASS
	2437.2000	-44.8973	-20.00	PASS
	2843.4000	-40.6925	-20.00	PASS
	3249.6000	-42.5585	-20.00	PASS
	3655.8000	-42.4750	-20.00	PASS
	4062.0000	-43.5654	-20.00	PASS

Digital.: 406.2. MHz, 12.5 kHz Channel Spacing, Low. Power



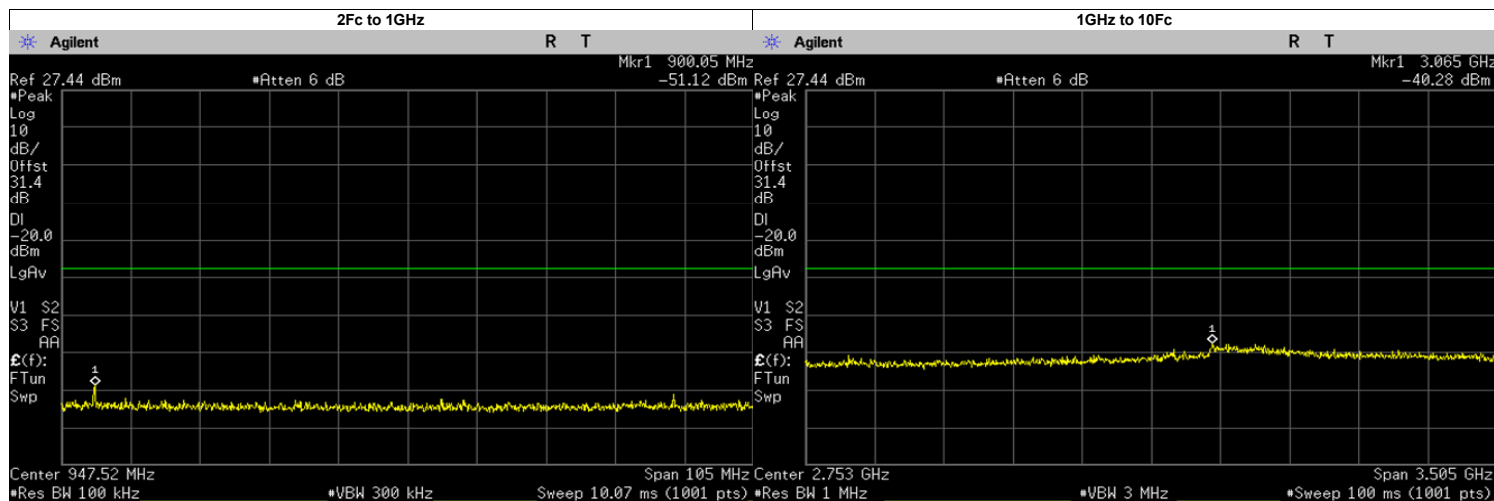
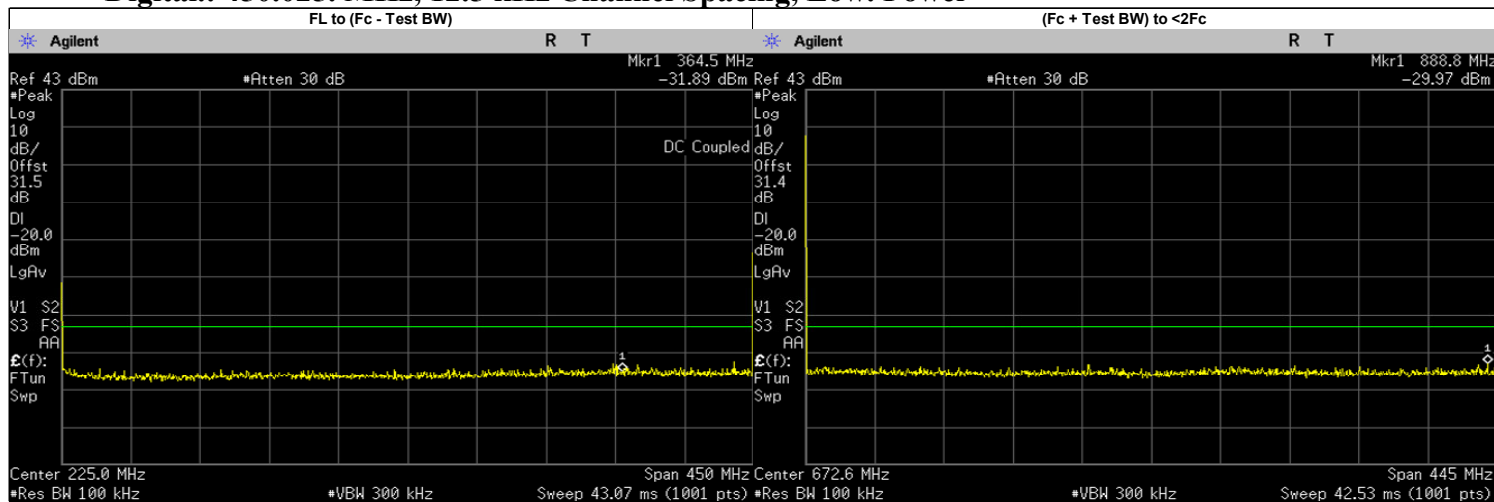
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	285.9000	-31.8110	-20.00	PASS
(Fc + Test BW) to <2Fc	741.6123	-29.5100	-20.00	PASS
2Fc to 1GHz	812.4000	-51.6100	-20.00	PASS
1GHz to 10Fc	3073.2920	-40.0300	-20.00	PASS
	1218.6000	-45.6230	-20.00	PASS
	1624.8000	-45.4908	-20.00	PASS
	2031.0000	-45.4323	-20.00	PASS
	2437.2000	-44.7931	-20.00	PASS
	2843.4000	-43.6959	-20.00	PASS
	3249.6000	-41.8858	-20.00	PASS
	3655.8000	-43.0258	-20.00	PASS
	4062.0000	-43.6324	-20.00	PASS

Digital.: 450.025. MHz, 12.5 kHz Channel Spacing, Max. Power



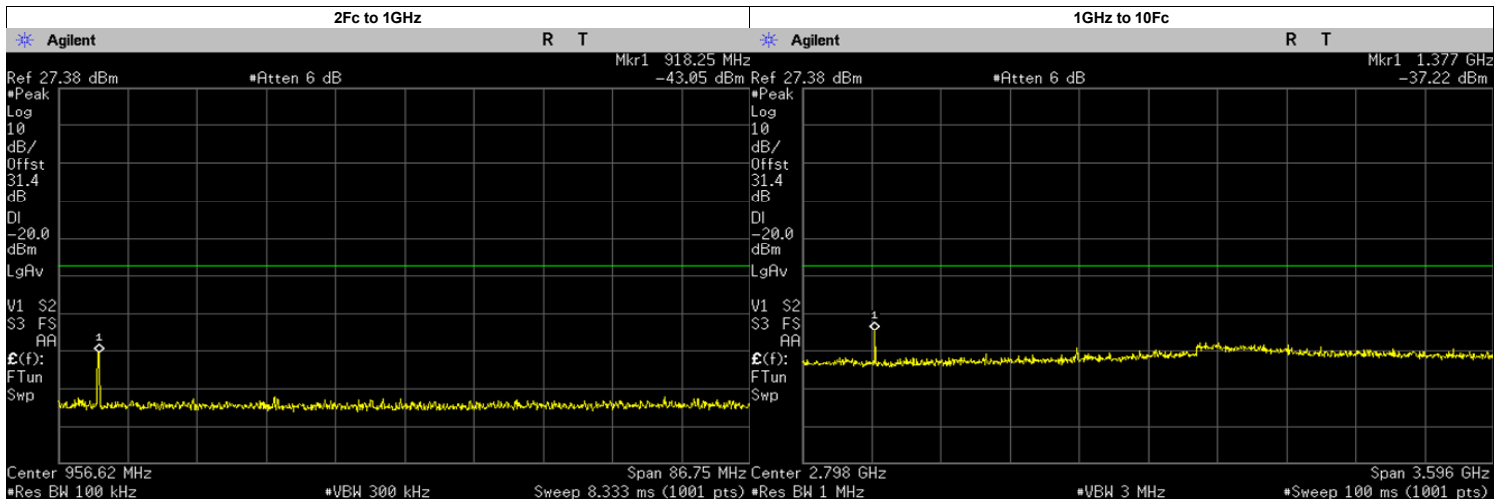
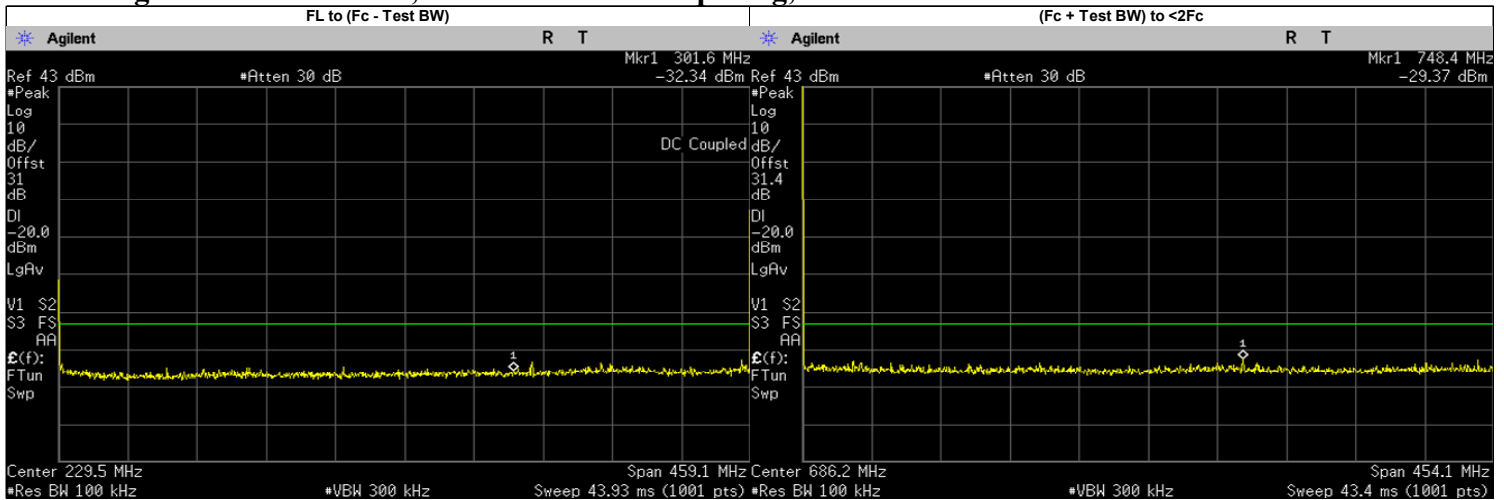
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	188.1000	-32.6790	-20.00	PASS
(Fc + Test BW) to <2Fc	456.3114	-29.8600	-20.00	PASS
2Fc to 1GHz	900.0500	-44.0500	-20.00	PASS
1GHz to 10Fc	1350.0000	-35.0000	-20.00	PASS
	3299.4440	-40.2900	-20.00	PASS
	1800.1000	-44.6611	-20.00	PASS
	2250.1250	-45.0289	-20.00	PASS
	2700.1500	-43.7049	-20.00	PASS
	3150.1750	-41.0201	-20.00	PASS
	3600.2000	-42.8594	-20.00	PASS
	4050.2250	-42.8006	-20.00	PASS
	4500.2500	-44.2303	-20.00	PASS

Digital.: 450.025. MHz, 12.5 kHz Channel Spacing, Low. Power



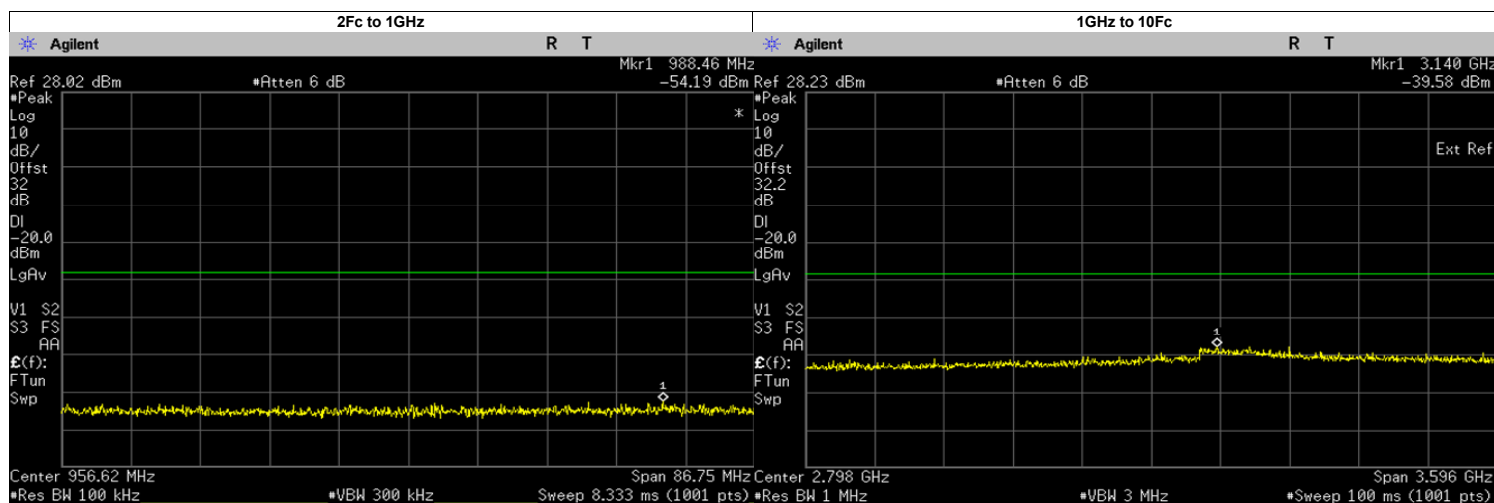
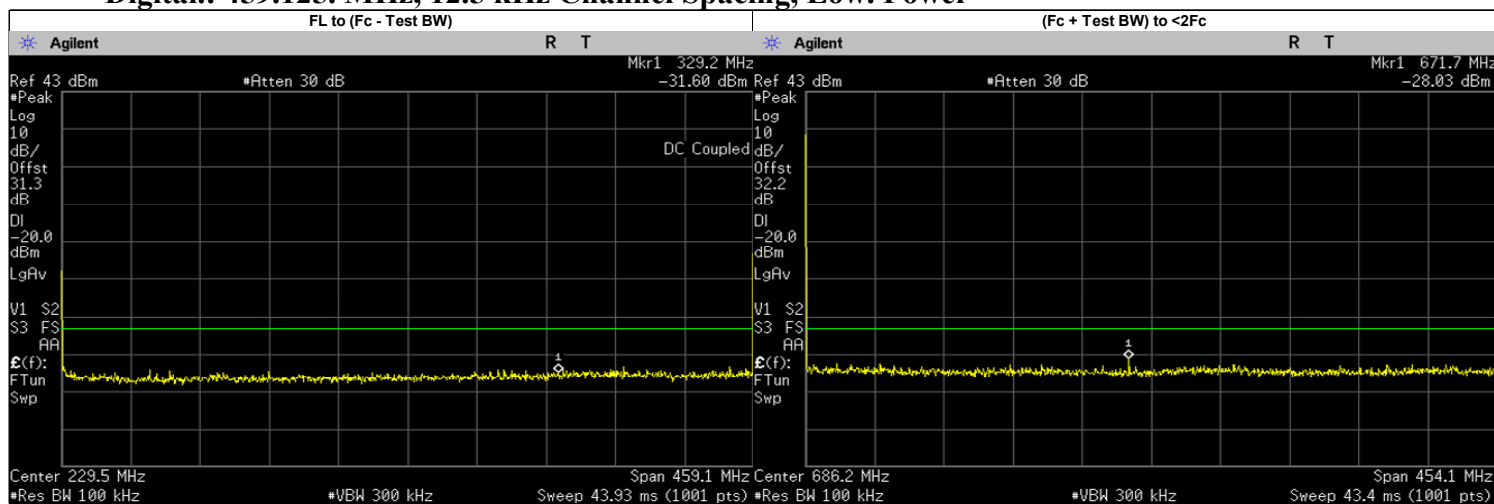
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	364.5000	-31.8930	-20.00	PASS
(Fc + Test BW) to <2Fc	888.8204	-29.9700	-20.00	PASS
2Fc to 1GHz	900.0500	-51.1200	-20.00	PASS
1GHz to 10Fc	3064.5920	-40.2800	-20.00	PASS
	1350.0750	-44.8015	-20.00	PASS
	1800.1000	-45.6898	-20.00	PASS
	2250.1250	-44.4615	-20.00	PASS
	2700.1500	-44.1020	-20.00	PASS
	3150.1750	-41.6921	-20.00	PASS
	3600.2000	-43.5632	-20.00	PASS
	4050.2250	-44.1179	-20.00	PASS
	4500.2500	-43.2623	-20.00	PASS

Digital.: 459.125. MHz, 12.5 kHz Channel Spacing, Max. Power



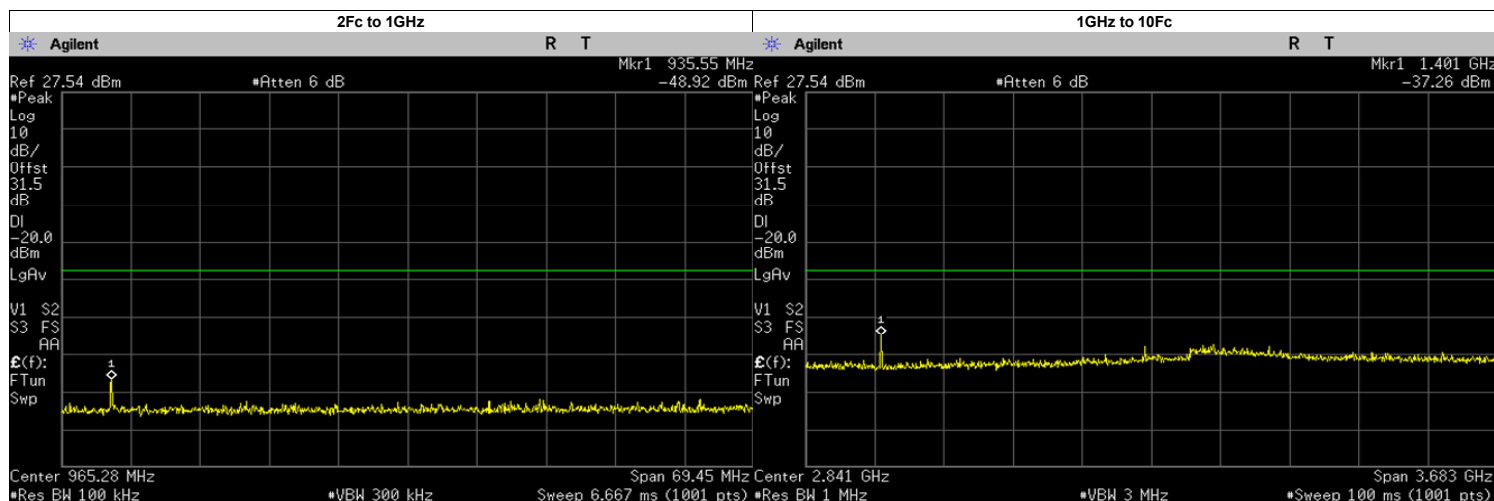
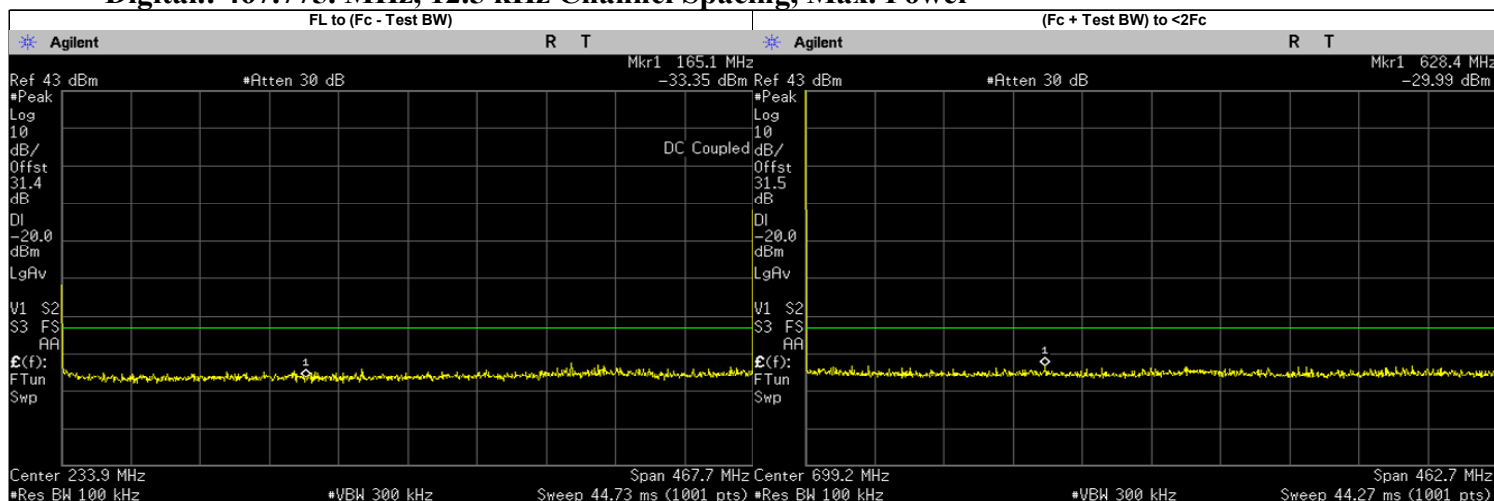
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	301.6000	-32.3420	-20.00	PASS
(Fc + Test BW) to <2Fc	748.4232	-29.3700	-20.00	PASS
2Fc to 1GHz	918.2500	-43.0582	-20.00	PASS
1GHz to 10Fc	1377.0000	-37.2200	-20.00	PASS
	3096.6140	-40.4300	-20.00	PASS
	1836.5000	-44.9547	-20.00	PASS
	2295.6250	-44.5616	-20.00	PASS
	2754.7500	-42.7552	-20.00	PASS
	3213.8750	-42.3036	-20.00	PASS
	3673.0000	-43.1858	-20.00	PASS
	4132.1250	-43.8790	-20.00	PASS
	4591.2500	-44.1014	-20.00	PASS

Digital.: 459.125. MHz, 12.5 kHz Channel Spacing, Low. Power



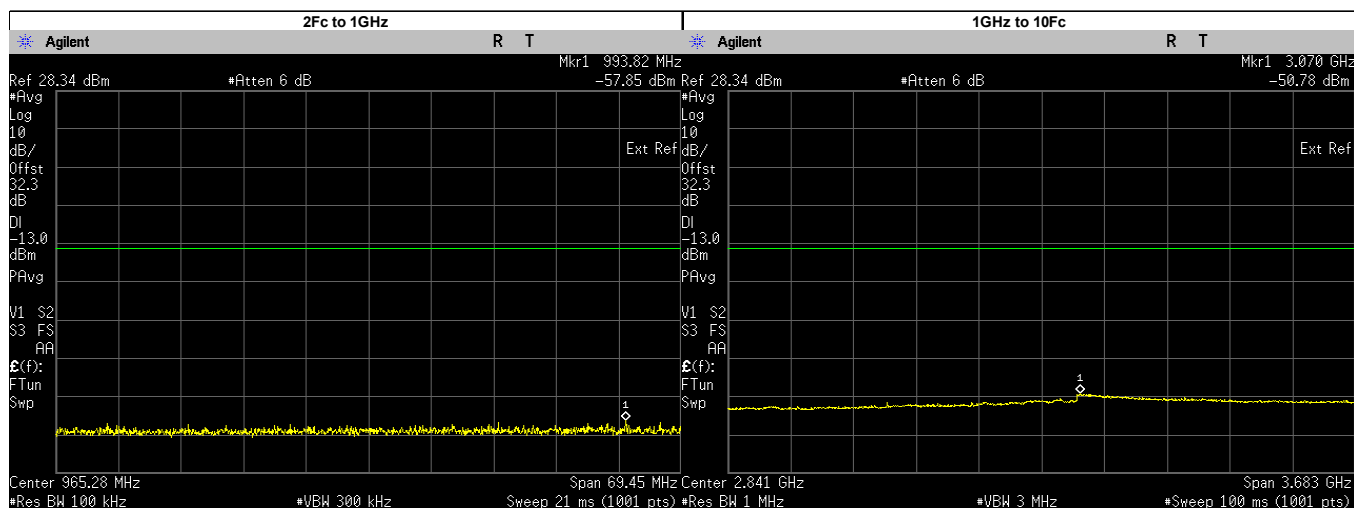
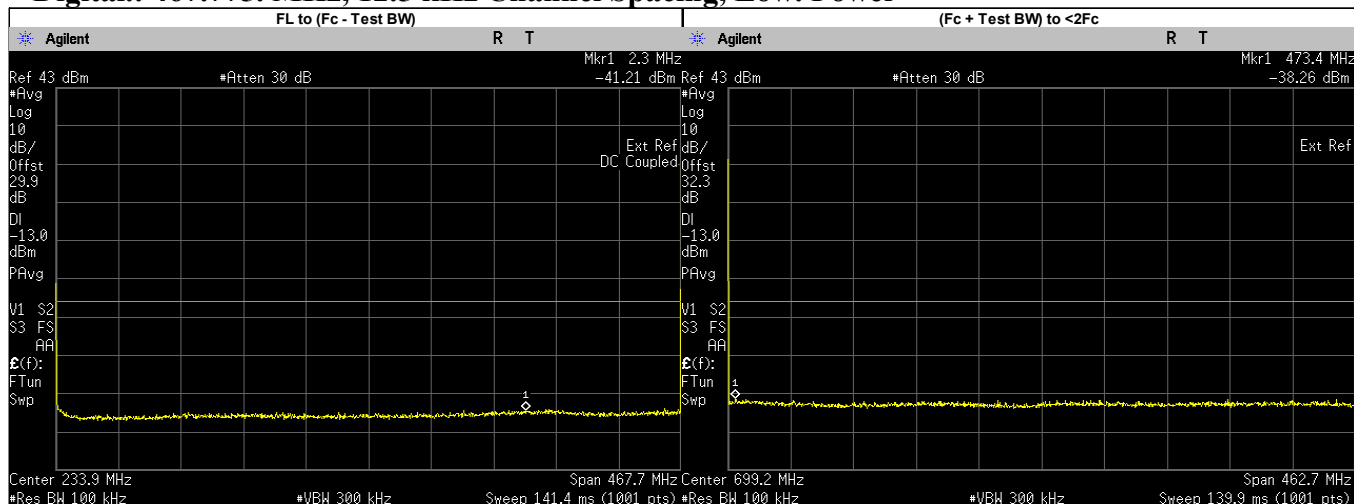
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	329.2000	-31.5970	-20.00	PASS
(Fc + Test BW) to <2Fc	671.6857	-28.0300	-20.00	PASS
2Fc to 1GHz	988.4600	-54.1900	-20.00	PASS
	918.2500	-52.4534	-20.00	PASS
1GHz to 10Fc	3140.0000	-39.5800	-20.00	PASS
	1377.3750	-43.9575	-20.00	PASS
	1836.5000	-44.6598	-20.00	PASS
	2295.6250	-43.8542	-20.00	PASS
	2754.7500	-43.5691	-20.00	PASS
	3213.8750	-40.9414	-20.00	PASS
	3673.0000	-42.5084	-20.00	PASS
	4132.1250	-42.5800	-20.00	PASS
	4591.2500	-43.6112	-20.00	PASS

Digital.: 467.775. MHz, 12.5 kHz Channel Spacing, Max. Power



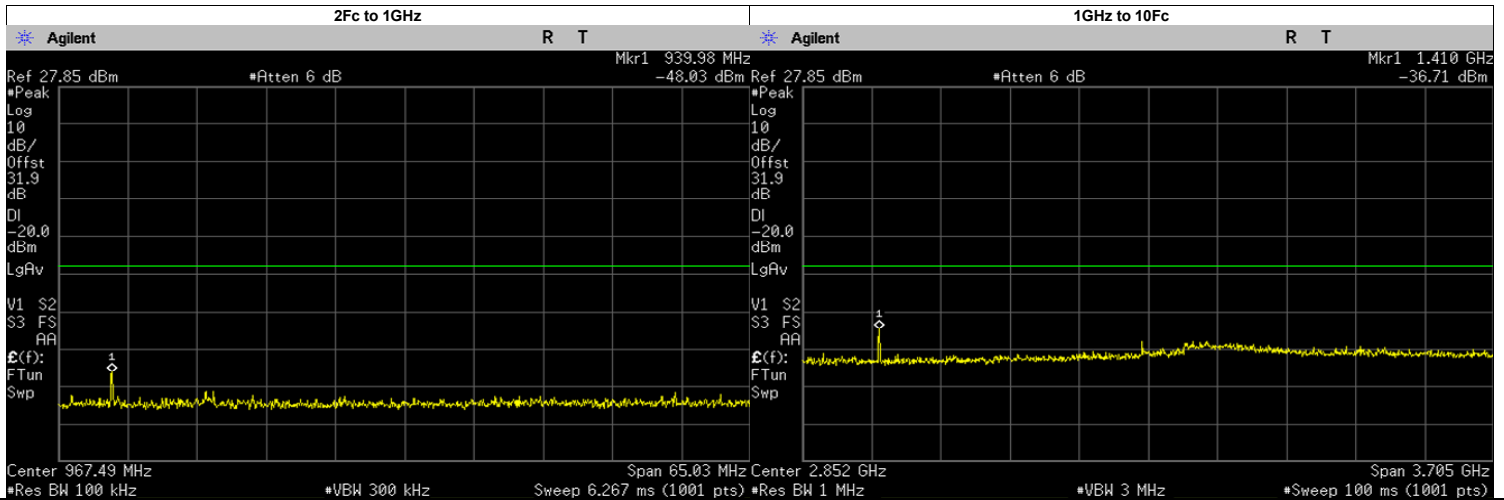
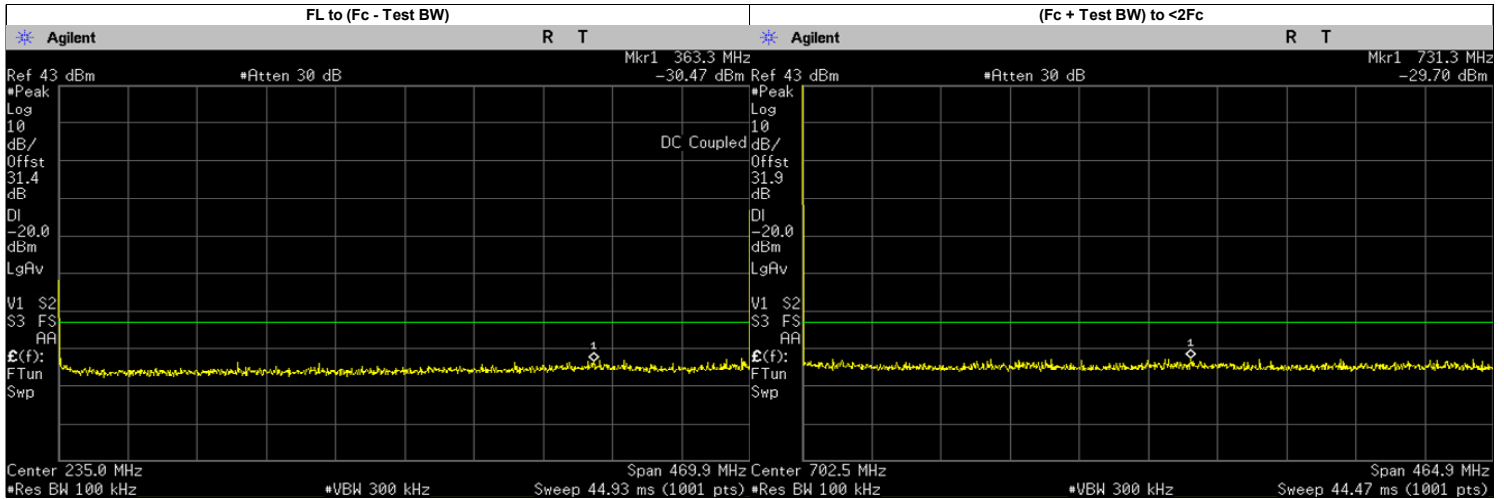
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	165.1000	-33.3530	-20.00	PASS
(Fc + Test BW) to <2Fc	628.3950	-29.9900	-20.00	PASS
2Fc to 1GHz	935.5500	-48.9200	-20.00	PASS
1GHz to 10Fc	1401.0000	-37.2600	-20.00	PASS
	1871.1000	-45.2537	-20.00	PASS
	2338.8750	-44.0963	-20.00	PASS
	2806.6500	-40.9414	-20.00	PASS
	3274.4250	-41.9991	-20.00	PASS
	3742.2000	-42.8395	-20.00	PASS
	4209.9750	-43.7525	-20.00	PASS
	4677.7500	-44.0070	-20.00	PASS
	1403.3250	-37.2714	-20.00	PASS

Digital.: 467.775. MHz, 12.5 kHz Channel Spacing, Low. Power



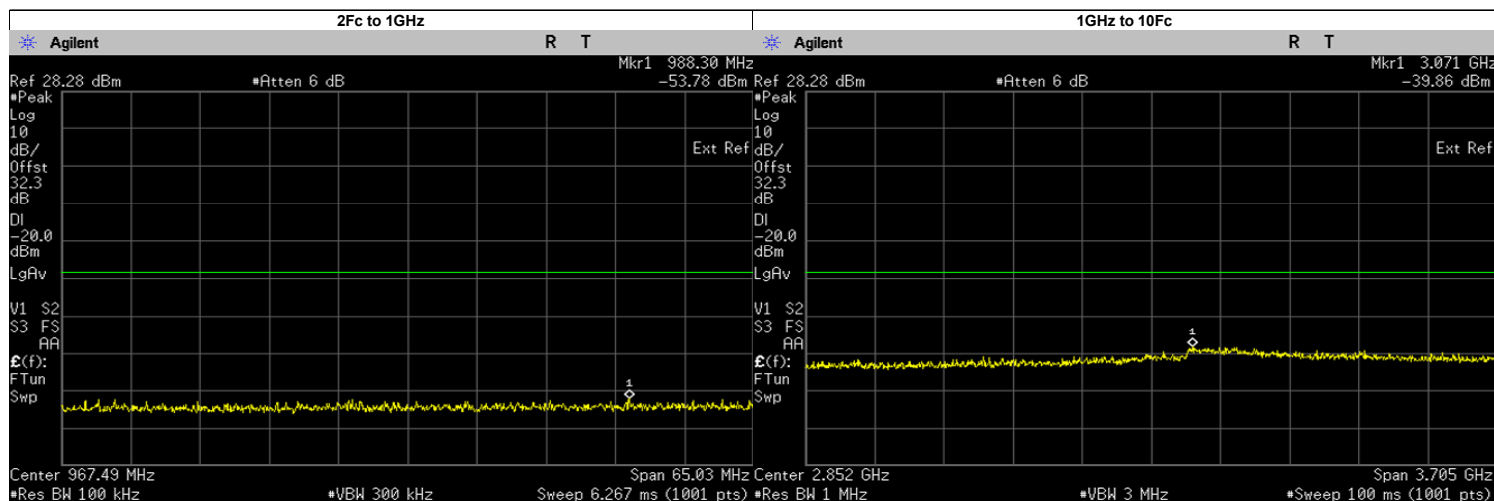
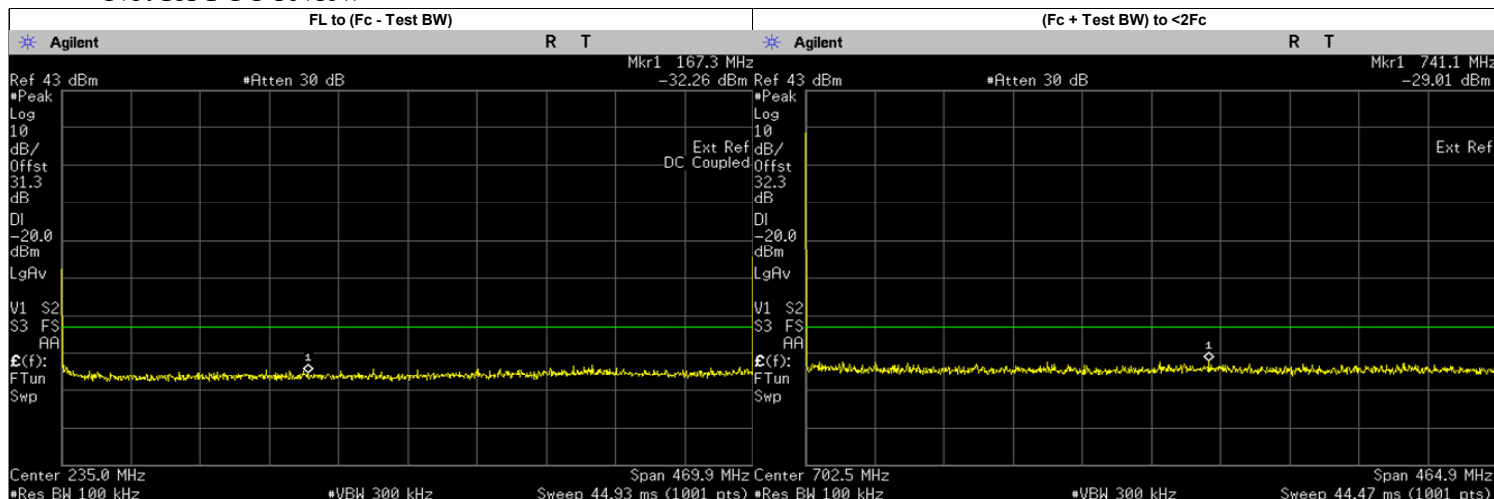
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.3000	-41.2120	-13.00	PASS
(Fc + Test BW) to <2Fc	473.3844	-38.2600	-13.00	PASS
2Fc to 1GHz	993.8189	-57.8500	-13.00	PASS
	935.5500	-60.2135	-13.00	PASS
1GHz to 10Fc	3069.7060	-50.7800	-13.00	PASS
	1403.3250	-54.8866	-13.00	PASS
	1871.1000	-54.4042	-13.00	PASS
	2338.8750	-53.8811	-13.00	PASS
	2806.6500	-52.7046	-13.00	PASS
	3274.4250	-51.7606	-13.00	PASS
	3742.2000	-52.5105	-13.00	PASS
	4209.9750	-52.7215	-13.00	PASS
	4677.7500	-53.1002	-13.00	PASS

Digital.: 469.9875. 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)	363.3000	-30.4670	-20.00	PASS
(Fc + Test BW) to <2Fc	731.3354	-29.7000	-20.00	PASS
2Fc to 1GHz	939.9750	-48.0300	-20.00	PASS
1GHz to 10Fc	1410.0000	-36.7100	-20.00	PASS
	3089.5500	-40.0800	-20.00	PASS
	1879.9500	-44.5105	-20.00	PASS
	2349.9370	-44.3038	-20.00	PASS
	2819.9250	-40.7879	-20.00	PASS
	3289.9120	-41.6424	-20.00	PASS
	3759.9000	-43.0591	-20.00	PASS
	4229.8870	-43.6624	-20.00	PASS
	4699.8750	-43.5880	-20.00	PASS

Digital.: 469.9875. MHz, 12.5 kHz Channel Spacing, Low. Power
Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	167.3000	-32.2580	-20.00	PASS
(Fc + Test BW) to <2Fc	741.0989	-29.0100	-20.00	PASS
2Fc to 1GHz	988.2955	-53.7800	-20.00	PASS
	939.9750	-54.1573	-20.00	PASS
1GHz to 10Fc	3071.0000	-39.8600	-20.00	PASS
	1409.9630	-44.2032	-20.00	PASS
	1879.9500	-43.9715	-20.00	PASS
	2349.9370	-44.1404	-20.00	PASS
	2819.9250	-42.2653	-20.00	PASS
	3289.9120	-40.8138	-20.00	PASS
	3759.9000	-42.5034	-20.00	PASS
	4229.8870	-43.0470	-20.00	PASS
	4699.8750	-43.0618	-20.00	PASS

6.9.4. Test Limit

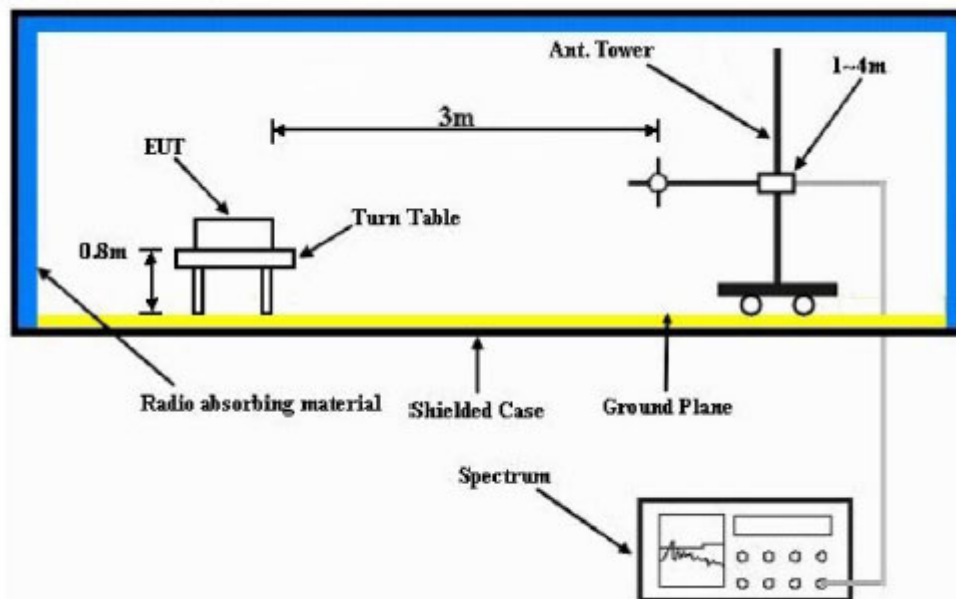
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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)

6.10. Radiated Spurious Emission

6.10.1. 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.

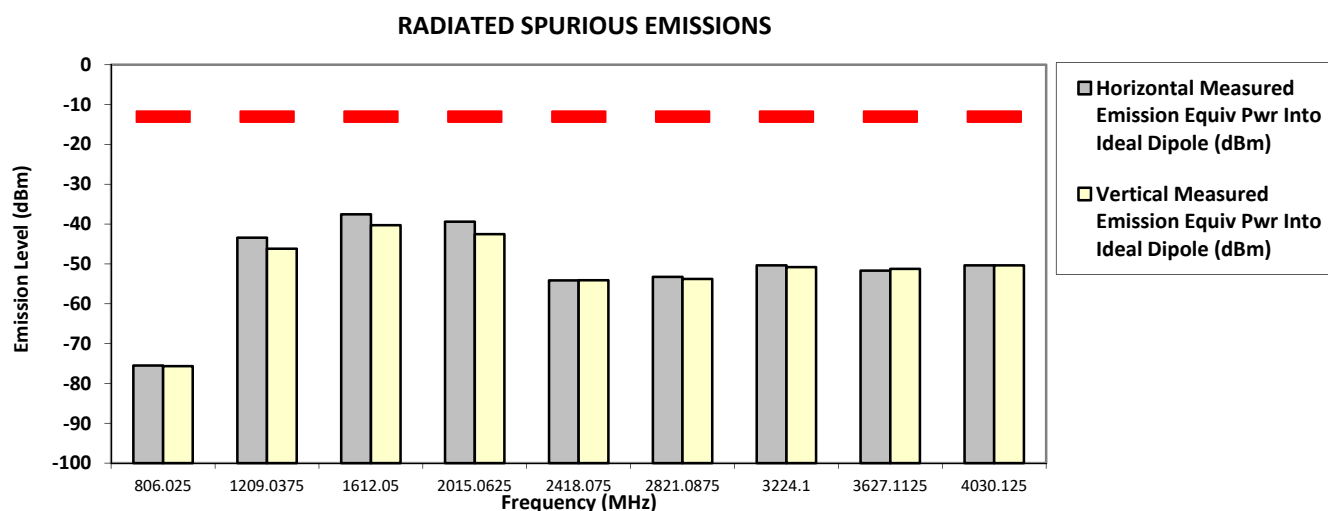
6.10.2. Test Result (Analog)

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1, 956-RKN4136A-1
Test Mode: TX Analog
403.012500 MHz (Not for FCC review) **25 kHz** **30.000 Watt(s) /Max Power**

SR:33028-EMC-00005

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
806.0250	-13.0000	-75.5006 **	-75.6610 **
1209.0375	-13.0000	-43.4300 *	-46.1700 *
1612.0500	-13.0000	-37.5500 *	-40.2900 *
2015.0625	-13.0000	-39.3900 *	-42.5500 *
2418.0750	-13.0000	-54.1541 **	-54.0960 **
2821.0875	-13.0000	-53.2719 **	-53.7882 **
3224.1000	-13.0000	-50.3488 **	-50.7942 **
3627.1125	-13.0000	-51.7074 **	-51.2330 **
4030.1250	-13.0000	-50.3816 **	-50.3810 **



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: Aiman&Nazrin Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059

SR:33028-EMC-00005

Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1

Test Mode: TX Analog

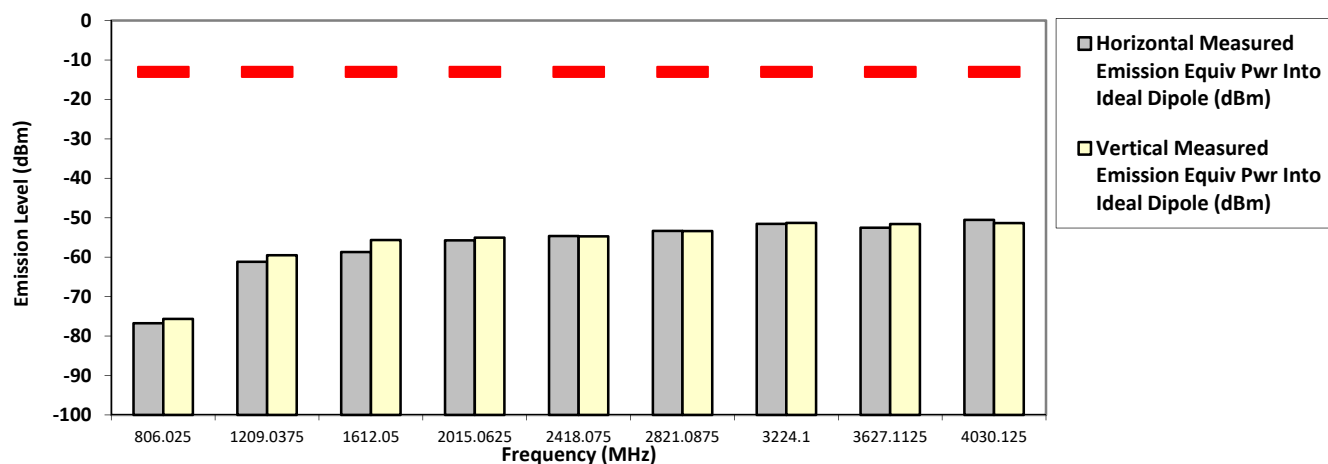
403.012500 MHz (Not for FCC review)

25 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)
806.0250	-13.0000	-76.7314 **	-75.6619 **
1209.0375	-13.0000	-61.1633 **	-59.5043 **
1612.0500	-13.0000	-58.6894 **	-55.6612 **
2015.0625	-13.0000	-55.7299 **	-55.0577 **
2418.0750	-13.0000	-54.6274 **	-54.7339 **
2821.0875	-13.0000	-53.3571 **	-53.3735 **
3224.1000	-13.0000	-51.5523 **	-51.3308 **
3627.1125	-13.0000	-52.5101 **	-51.5818 **
4030.1250	-13.0000	-50.5473 **	-51.3588 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

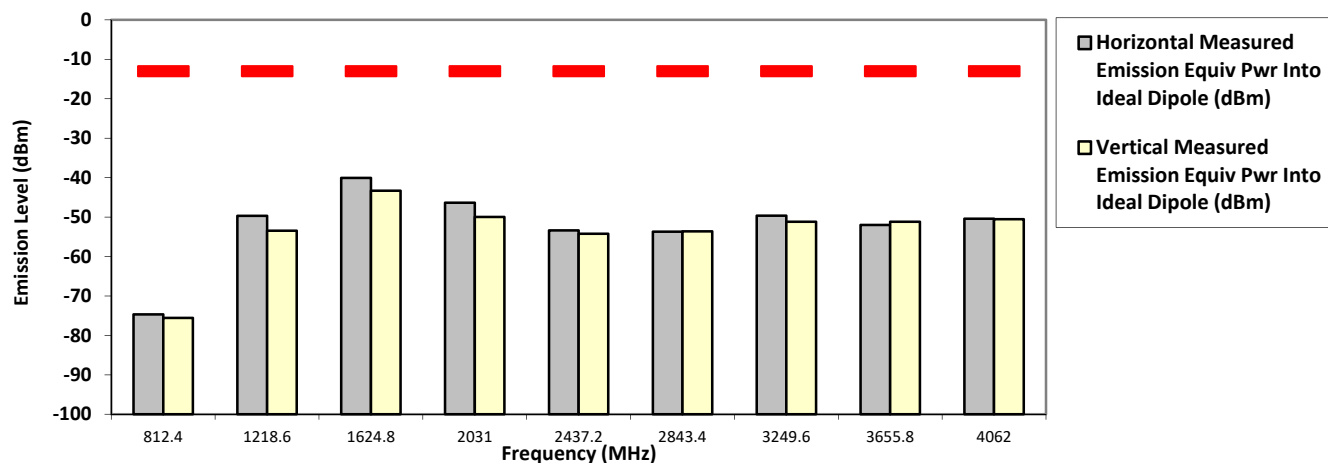
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:
Model Number: AAM02QNH9JA1AN S/N: 776TYP2059 SR:33028-EMC-00005
Battery Part No: NA Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1, 956-RKN4136A-1
Test Mode: TX Analog
406.200000 MHz (Not for FCC review) 25 kHz 30.000 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)
812.4000	-13.0000	-74.6720 **	-75.5539 **
1218.6000	-13.0000	-49.7000 *	-53.4600 *
1624.8000	-13.0000	-40.0800 *	-43.3300 *
2031.0000	-13.0000	-46.3600 *	-49.9600 *
2437.2000	-13.0000	-53.4010 **	-54.2500 **
2843.4000	-13.0000	-53.6989 **	-53.6406 **
3249.6000	-13.0000	-49.6508 **	-51.1922 **
3655.8000	-13.0000	-52.0056 **	-51.1730 **
4062.0000	-13.0000	-50.4027 **	-50.5520 **

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: Aiman&Nazrin Thu, 8 Sep, 2022

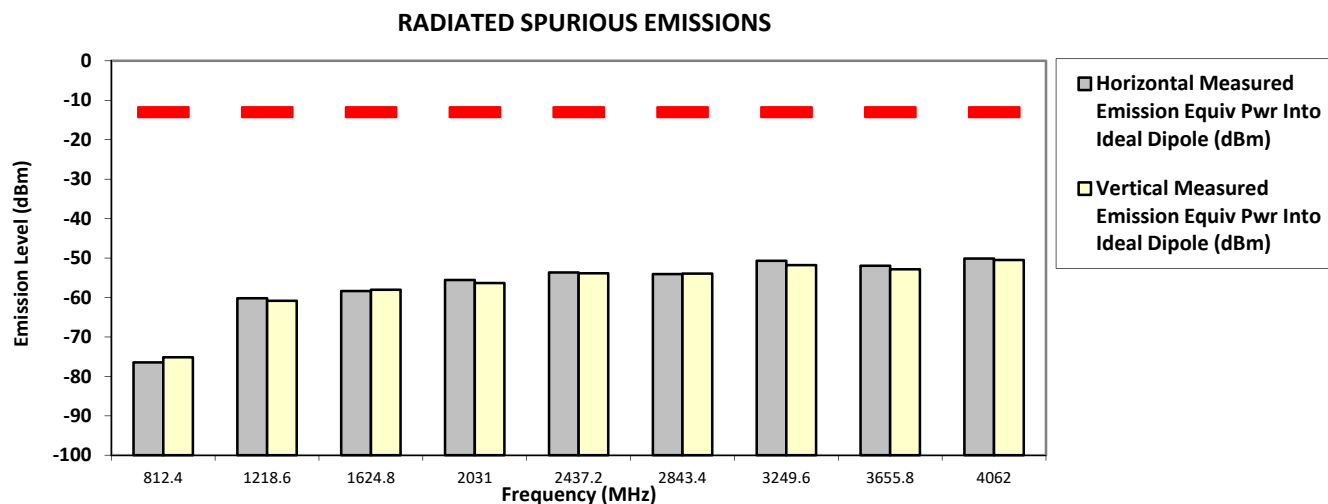
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:
Model Number: AAM02QNH9JA1AN S/N: 776TYP2059 SR:33028-EMC-00005
Battery Part No: NA Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1, 956-RKN4136A-1
Test Mode: TX Analog
406.200000 MHz (Not for FCC review) 25 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)
812.4000	-13.0000	-76.4787 **	-75.1751 **
1218.6000	-13.0000	-60.1817 **	-60.8272 **
1624.8000	-13.0000	-58.3559 **	-58.0551 **
2031.0000	-13.0000	-55.5608 **	-56.3284 **
2437.2000	-13.0000	-53.6609 **	-53.8739 **
2843.4000	-13.0000	-54.0728 **	-53.9549 **
3249.6000	-13.0000	-50.7005 **	-51.7908 **
3655.8000	-13.0000	-51.9629 **	-52.8390 **
4062.0000	-13.0000	-50.1516 **	-50.5127 **



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: Aiman&Nazrin Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks: Passed Results Marginal Results Failed Results

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059

SR:33028-EMC-00005

Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1

Test Mode: TX Analog

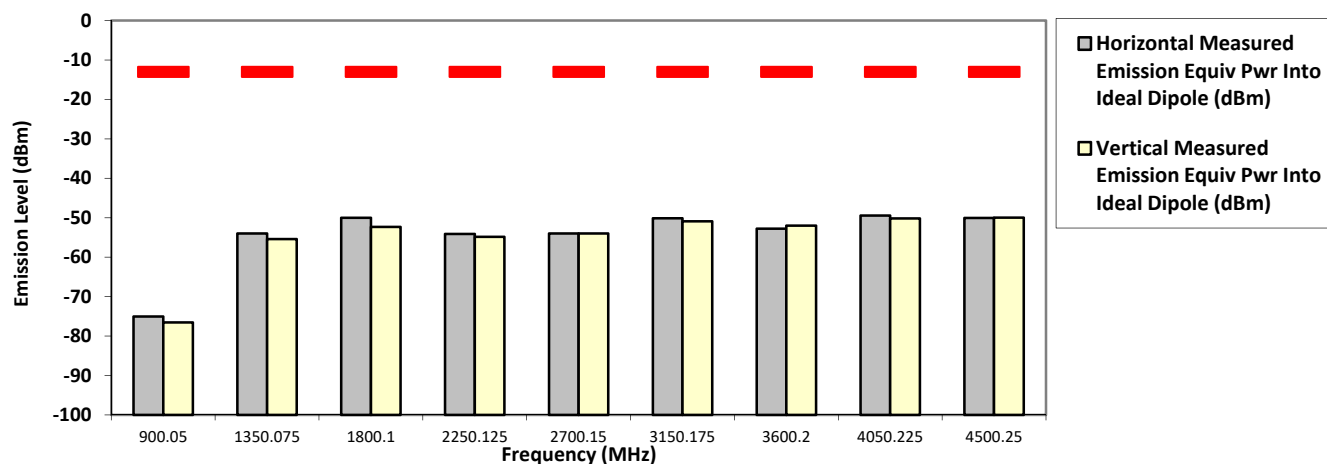
450.025000 MHz (For Part 74)

25 kHz

30.000 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)
900.0500	-13.0000	-75.0406 **	-76.5570 **
1350.0750	-13.0000	-53.9800 *	-55.4300 *
1800.1000	-13.0000	-50.0200 *	-52.3200 *
2250.1250	-13.0000	-54.1153 **	-54.8508 **
2700.1500	-13.0000	-53.9931 **	-54.0101 **
3150.1750	-13.0000	-50.1430 **	-50.9036 **
3600.2000	-13.0000	-52.7561 **	-51.9887 **
4050.2250	-13.0000	-49.4406 **	-50.1739 **
4500.2500	-13.0000	-50.0502 **	-49.9672 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Analog

SR:33028-EMC-00005

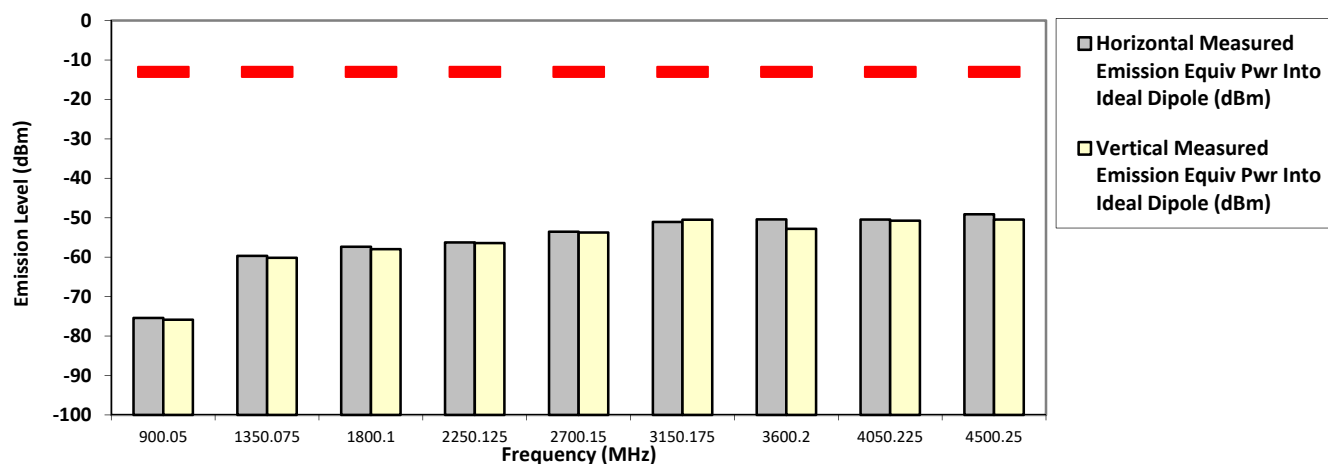
450.025000 MHz (For Part 74)

25 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)
900.0500	-13.0000	-75.4111 **	-75.8697 **
1350.0750	-13.0000	-59.6615 **	-60.1409 **
1800.1000	-13.0000	-57.3585 **	-57.9462 **
2250.1250	-13.0000	-56.2524 **	-56.4308 **
2700.1500	-13.0000	-53.5529 **	-53.7433 **
3150.1750	-13.0000	-51.0795 **	-50.5205 **
3600.2000	-13.0000	-50.4052 **	-52.8117 **
4050.2250	-13.0000	-50.4728 **	-50.7297 **
4500.2500	-13.0000	-49.1419 **	-50.4440 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Analog

SR:33028-EMC-00005

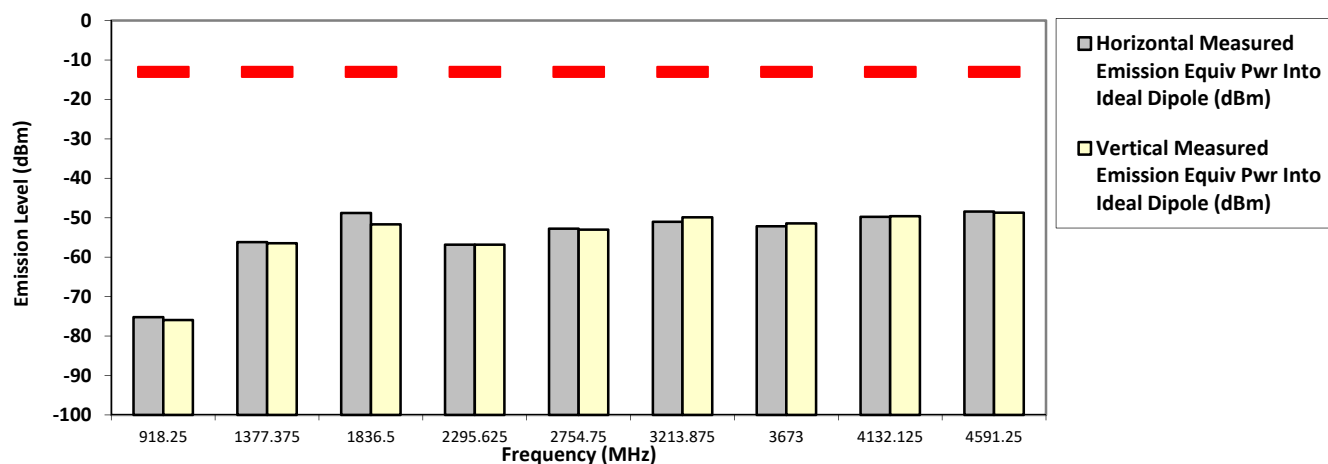
459.125000 MHz (For Part 22)

25 kHz

30.000 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)
918.2500	-13.0000	-75.2010 **	-75.9562 **
1377.3750	-13.0000	-56.1800 *	-56.4600 *
1836.5000	-13.0000	-48.8100 *	-51.6800 *
2295.6250	-13.0000	-56.8495 **	-56.8141 **
2754.7500	-13.0000	-52.7936 **	-52.9974 **
3213.8750	-13.0000	-51.0145 **	-49.8822 **
3673.0000	-13.0000	-52.1838 **	-51.4176 **
4132.1250	-13.0000	-49.7799 **	-49.5972 **
4591.2500	-13.0000	-48.4265 **	-48.7020 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
 Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
 Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
 956-RKN4136A-1
 Test Mode: TX Analog

SR:33028-EMC-00005

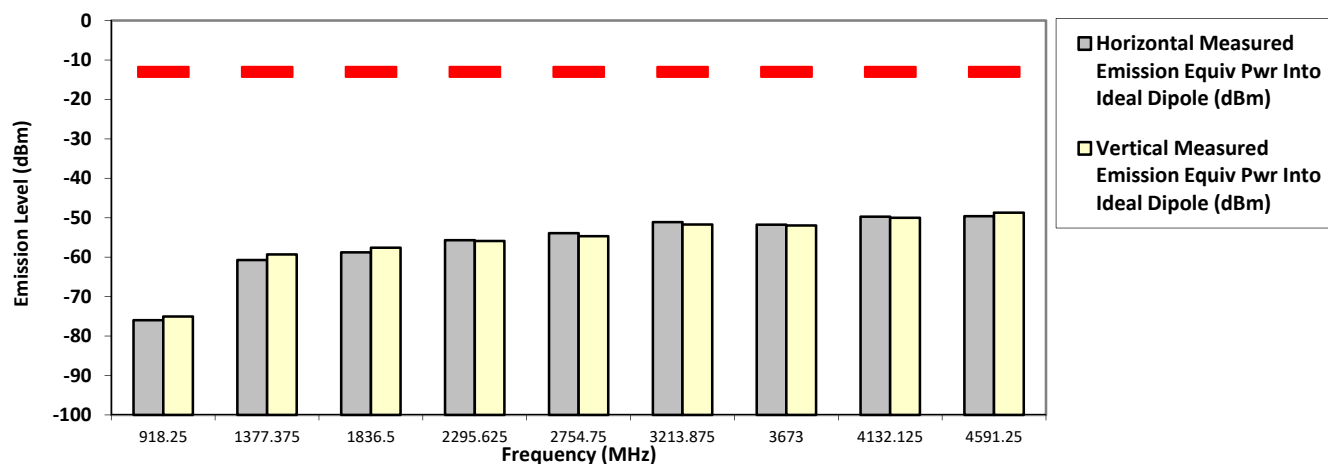
459.125000 MHz (For Part 22)

25 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)
918.2500	-13.0000	-75.9783 **	-75.0625 **
1377.3750	-13.0000	-60.7162 **	-59.2933 **
1836.5000	-13.0000	-58.7782 **	-57.6014 **
2295.6250	-13.0000	-55.6930 **	-55.8802 **
2754.7500	-13.0000	-53.9049 **	-54.6864 **
3213.8750	-13.0000	-51.1005 **	-51.7103 **
3673.0000	-13.0000	-51.7759 **	-51.9570 **
4132.1250	-13.0000	-49.7168 **	-50.0279 **
4591.2500	-13.0000	-49.6006 **	-48.7237 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Analog

SR:33028-EMC-00005

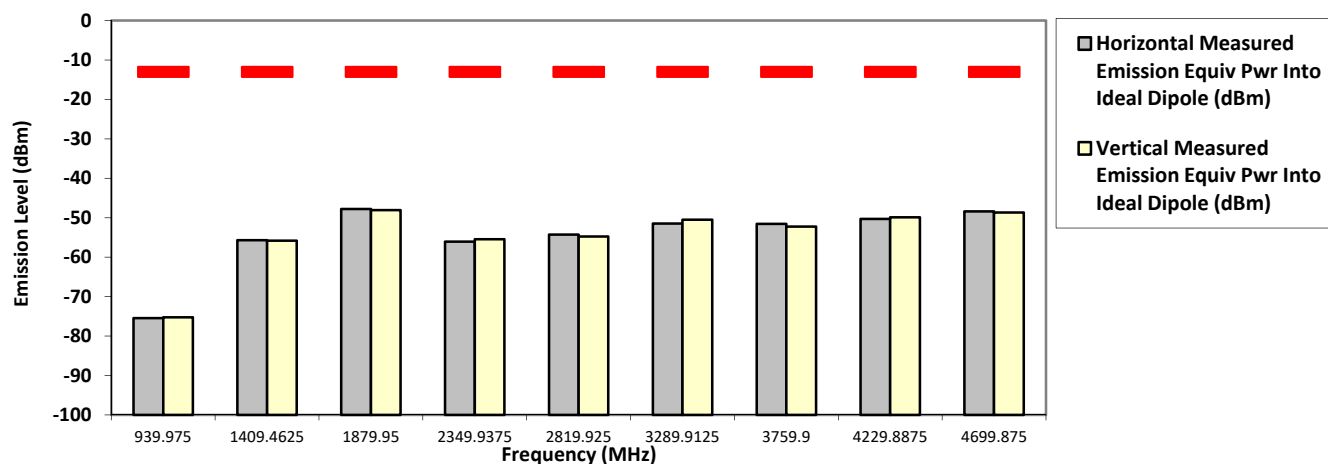
469.987500 MHz (Not for FCC review)

25 kHz

30.000 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)
939.9750	-13.0000	-75.4670 **	-75.2543 **
1409.4625	-13.0000	-55.6800 *	-55.8100 *
1879.9500	-13.0000	-47.7800 *	-48.0800 *
2349.9375	-13.0000	-56.0743 **	-55.4382 **
2819.9250	-13.0000	-54.2897 **	-54.7772 **
3289.9125	-13.0000	-51.4928 **	-50.5114 **
3759.9000	-13.0000	-51.5620 **	-52.2343 **
4229.8875	-13.0000	-50.3176 **	-49.8897 **
4699.8750	-13.0000	-48.4011 **	-48.6564 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Analog

SR:33028-EMC-00005

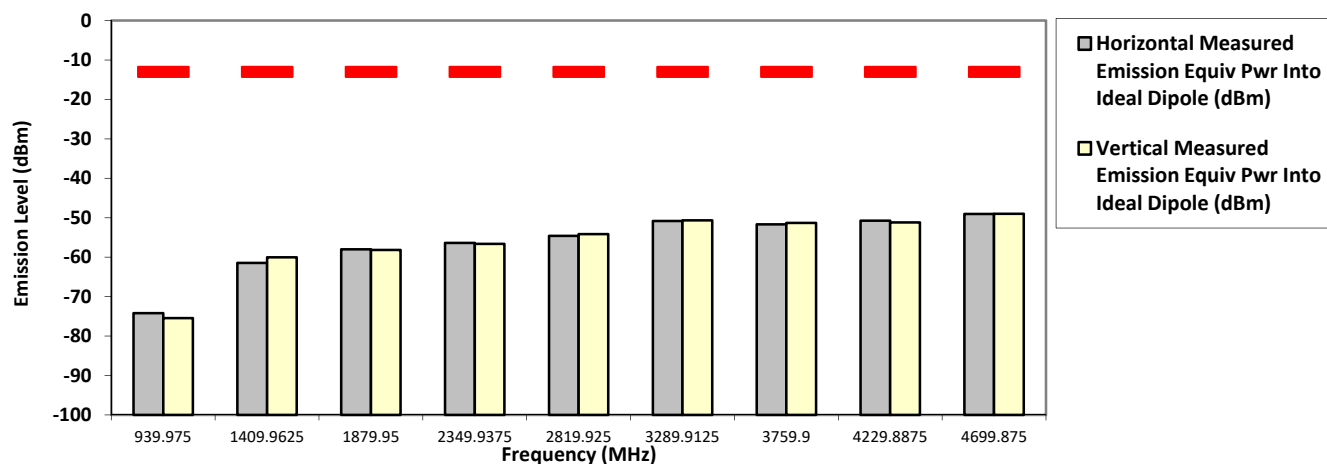
469.987500 MHz (Not for FCC review)

25 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)
939.9750	-13.0000	-74.1810 **	-75.4637 **
1409.9625	-13.0000	-61.4502 **	-60.0331 **
1879.9500	-13.0000	-57.9973 **	-58.1612 **
2349.9375	-13.0000	-56.3739 **	-56.6147 **
2819.9250	-13.0000	-54.5981 **	-54.1701 **
3289.9125	-13.0000	-50.8403 **	-50.6670 **
3759.9000	-13.0000	-51.6587 **	-51.3214 **
4229.8875	-13.0000	-50.7286 **	-51.1777 **
4699.8750	-13.0000	-49.0494 **	-48.9889 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

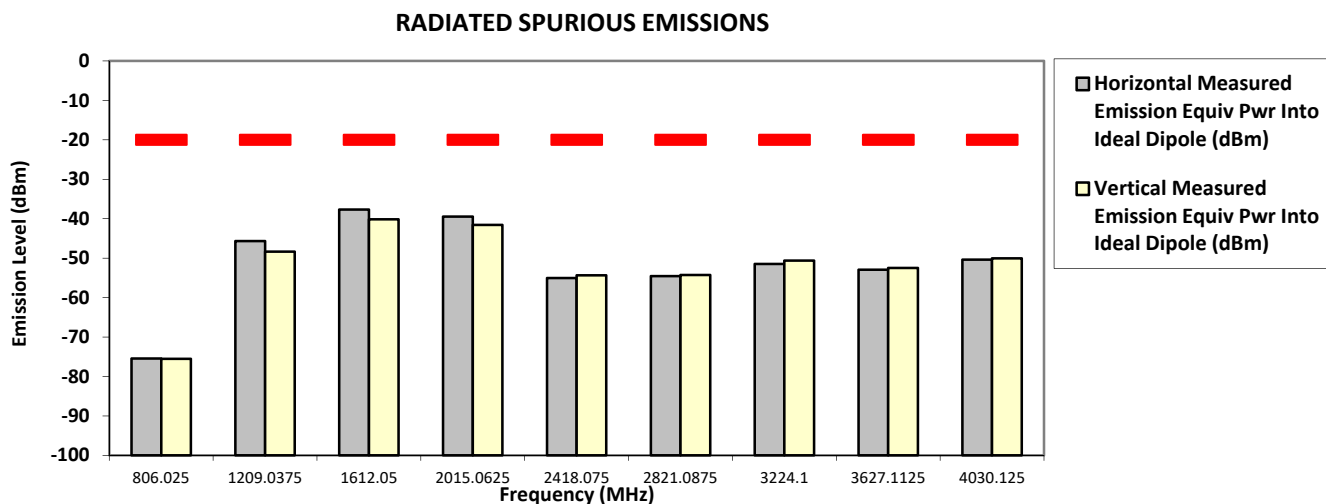
6.10.3. Test Result (Digital)

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:
S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1, 956-RKN4136A-1
Test Mode: TX Digital
12.5 kHz

SR: 33028-EMC-00005
403.012500 MHz (Not for FCC review)
30.000 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)
806.0250	-20.0000	-75.4462 **	-75.5283 **
1209.0375	-20.0000	-45.6700 *	-48.3700 *
1612.0500	-20.0000	-37.7000 *	-40.1600 *
2015.0625	-20.0000	-39.4500 *	-41.5600 *
2418.0750	-20.0000	-55.0408 **	-54.3595 **
2821.0875	-20.0000	-54.5699 **	-54.2604 **
3224.1000	-20.0000	-51.4657 **	-50.6046 **
3627.1125	-20.0000	-52.9359 **	-52.4872 **
4030.1250	-20.0000	-50.3737 **	-50.0481 **



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: Aiman&Nazrin Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks: Passed Results Marginal Results Failed Results

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

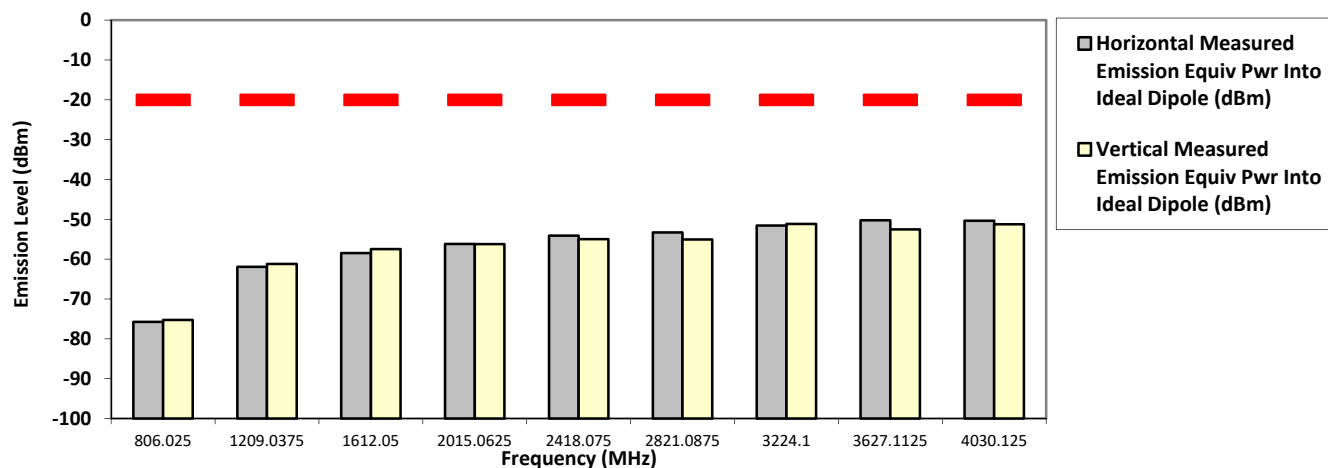
403.012500 MHz (Not for FCC review)

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)
806.0250	-20.0000	-75.7375 **	-75.2465 **
1209.0375	-20.0000	-61.9387 **	-61.2119 **
1612.0500	-20.0000	-58.4754 **	-57.4911 **
2015.0625	-20.0000	-56.1763 **	-56.2260 **
2418.0750	-20.0000	-54.1067 **	-54.9744 **
2821.0875	-20.0000	-53.3155 **	-55.0546 **
3224.1000	-20.0000	-51.5799 **	-51.1843 **
3627.1125	-20.0000	-50.2573 **	-52.5356 **
4030.1250	-20.0000	-50.3736 **	-51.2405 **

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: Aiman&Nazrin Aiman&Nazrin Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

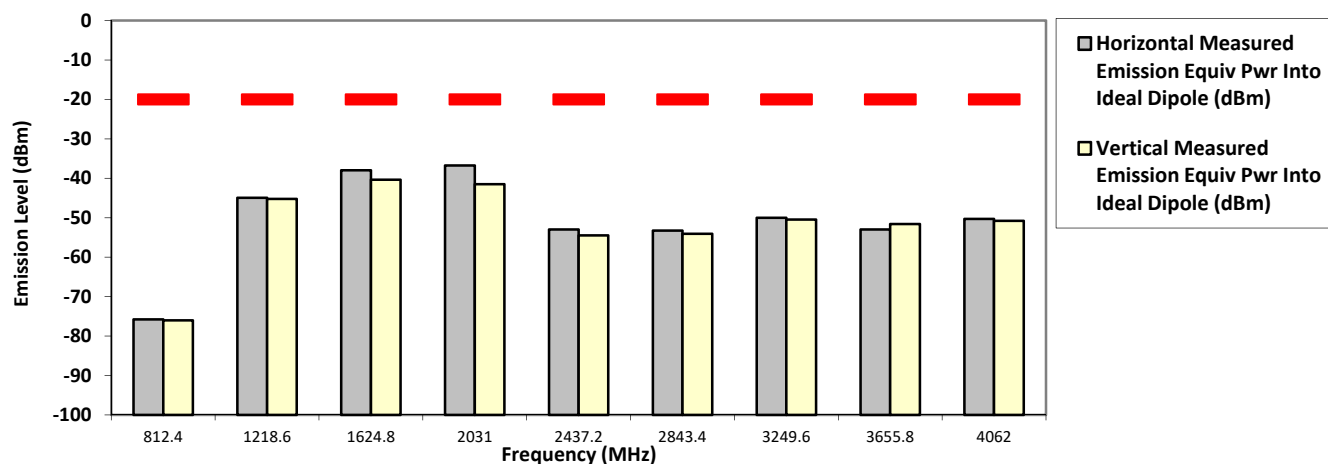
406.200000 MHz

12.5 kHz

30.000 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)
812.4000	-20.0000	-75.7690 **	-76.0035 **
1218.6000	-20.0000	-44.9400 *	-45.2400 *
1624.8000	-20.0000	-37.9800 *	-40.3600 *
2031.0000	-20.0000	-36.7500 *	-41.4900 *
2437.2000	-20.0000	-52.9767 **	-54.4684 **
2843.4000	-20.0000	-53.2443 **	-54.0546 **
3249.6000	-20.0000	-50.0317 **	-50.4800 **
3655.8000	-20.0000	-52.9720 **	-51.5777 **
4062.0000	-20.0000	-50.2818 **	-50.7712 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059

SR:33028-EMC-00005

Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1

Test Mode: TX Digital

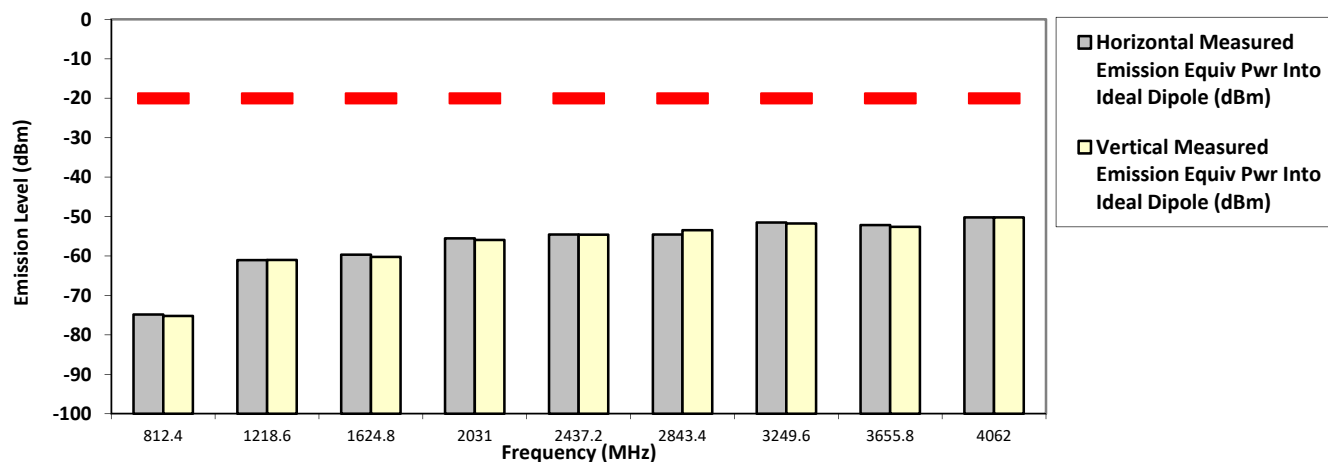
406.200000 MHz

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)
812.4000	-20.0000	-74.8565 **	-75.2259 **
1218.6000	-20.0000	-61.0639 **	-61.0071 **
1624.8000	-20.0000	-59.6636 **	-60.2416 **
2031.0000	-20.0000	-55.5471 **	-55.9323 **
2437.2000	-20.0000	-54.5685 **	-54.6066 **
2843.4000	-20.0000	-54.5753 **	-53.4811 **
3249.6000	-20.0000	-51.5272 **	-51.7747 **
3655.8000	-20.0000	-52.1489 **	-52.6258 **
4062.0000	-20.0000	-50.2366 **	-50.2195 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

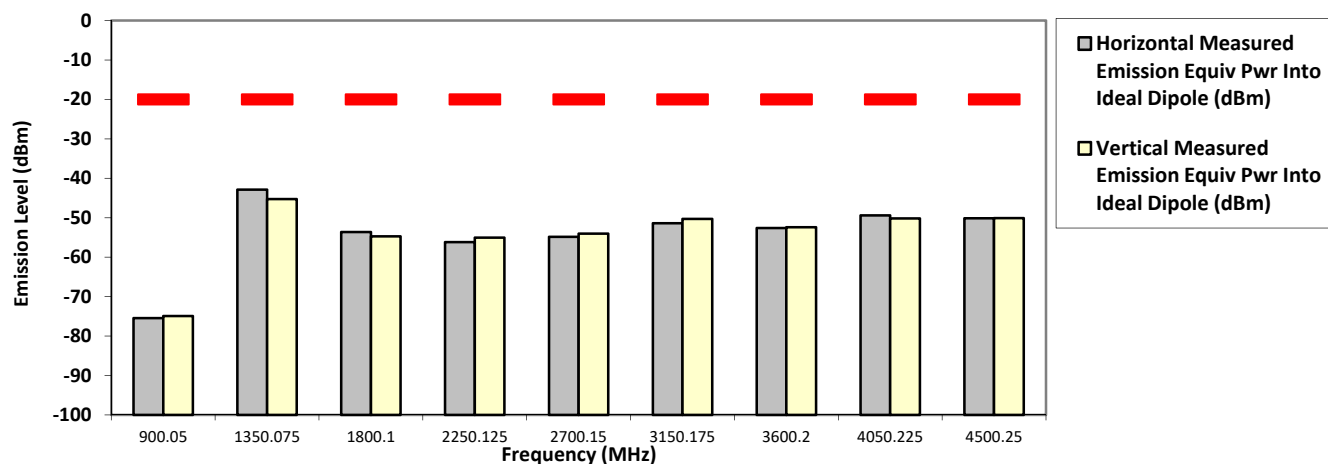
450.025000 MHz

12.5 kHz

30.000 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)
900.0500	-20.0000	-75.4509 **	-74.9042 **
1350.0750	-20.0000	-42.8900 *	-45.2500 *
1800.1000	-20.0000	-53.6134 **	-54.7202 **
2250.1250	-20.0000	-56.1698 **	-55.0348 **
2700.1500	-20.0000	-54.8362 **	-54.0476 **
3150.1750	-20.0000	-51.3790 **	-50.3061 **
3600.2000	-20.0000	-52.6249 **	-52.4073 **
4050.2250	-20.0000	-49.3960 **	-50.1947 **
4500.2500	-20.0000	-50.1237 **	-50.0858 **

RADIATED SPURIOUS EMISSIONS



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Motorola Penang EMC Lab - Test Performed by: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

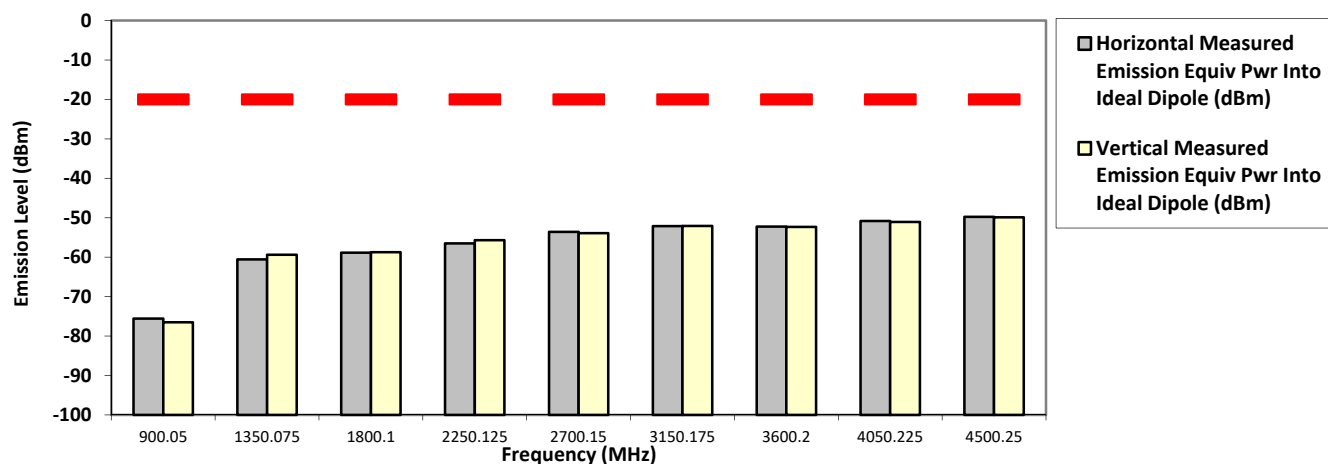
450.025000 MHz

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)
900.0500	-20.0000	-75.5838 **	-76.5038 **
1350.0750	-20.0000	-60.5697 **	-59.3898 **
1800.1000	-20.0000	-58.8574 **	-58.7191 **
2250.1250	-20.0000	-56.5258 **	-55.6980 **
2700.1500	-20.0000	-53.5676 **	-53.9276 **
3150.1750	-20.0000	-52.1156 **	-52.0649 **
3600.2000	-20.0000	-52.2520 **	-52.3378 **
4050.2250	-20.0000	-50.8125 **	-51.0783 **
4500.2500	-20.0000	-49.7764 **	-49.8747 **

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: Aiman&Nazrin

Thu, 8 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

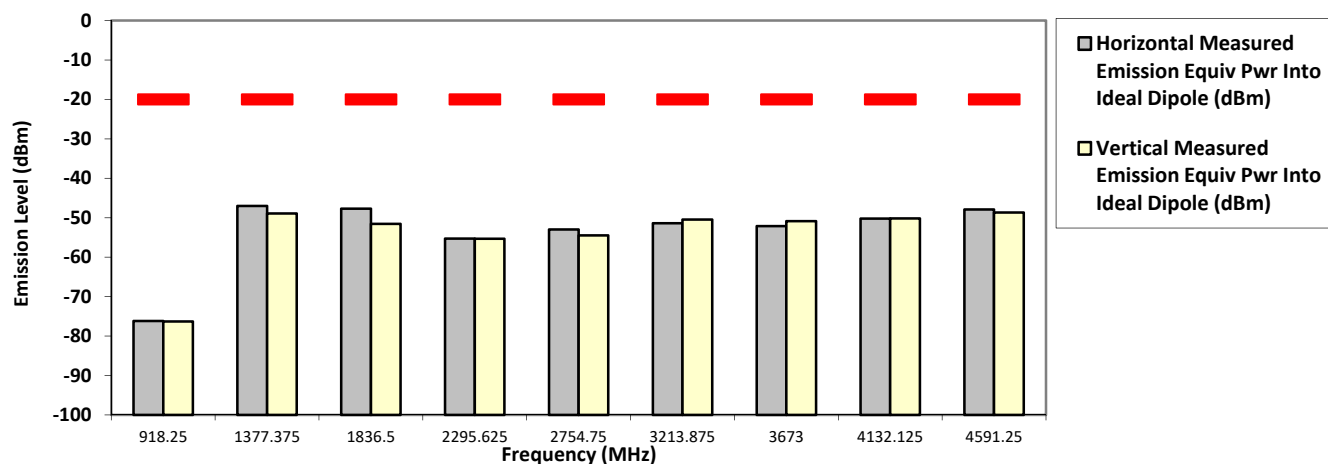
459.125000 MHz

12.5 kHz

30.000 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)
918.2500	-20.0000	-76.1775 **	-76.2834 **
1377.3750	-20.0000	-47.0200 *	-48.9400 *
1836.5000	-20.0000	-47.7000 *	-51.5500 *
2295.6250	-20.0000	-55.2757 **	-55.3476 **
2754.7500	-20.0000	-52.9637 **	-54.4638 **
3213.8750	-20.0000	-51.3854 **	-50.4541 **
3673.0000	-20.0000	-52.1067 **	-50.8716 **
4132.1250	-20.0000	-50.2364 **	-50.1577 **
4591.2500	-20.0000	-47.9214 **	-48.6611 **

RADIATED SPURIOUS EMISSIONS



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Motorola Penang EMC Lab - Test Performed by: Aiman&Nazrin

Fri, 9 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

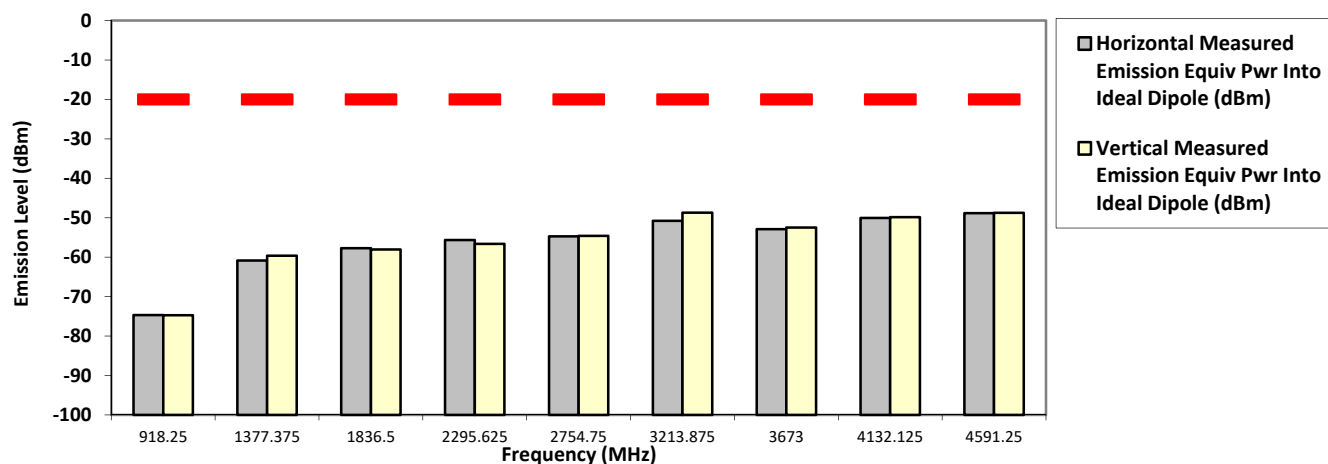
459.125000 MHz

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)
918.2500	-20.0000	-74.6788 **	-74.7237 **
1377.3750	-20.0000	-60.8343 **	-59.6200 **
1836.5000	-20.0000	-57.7288 **	-58.0647 **
2295.6250	-20.0000	-55.6641 **	-56.6305 **
2754.7500	-20.0000	-54.7124 **	-54.5921 **
3213.8750	-20.0000	-50.7993 **	-48.7364 **
3673.0000	-20.0000	-52.8873 **	-52.4883 **
4132.1250	-20.0000	-50.0647 **	-49.8551 **
4591.2500	-20.0000	-48.8403 **	-48.7768 **

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: Aiman&Nazrin

Fri, 9 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059

SR:33028-EMC-00005

Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1

Test Mode: TX Digital

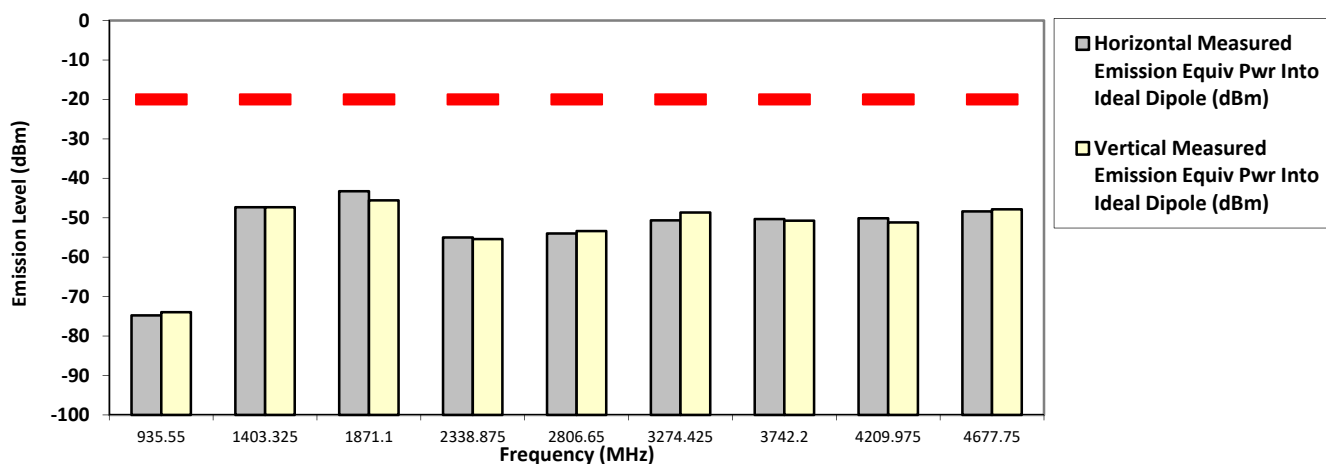
467.775000 MHz

12.5 kHz

30.000 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)
935.5500	-20.0000	-74.7800 **	-73.9572 **
1403.3250	-20.0000	-47.3200 *	-47.3300 *
1871.1000	-20.0000	-43.3000 *	-45.6000 *
2338.8750	-20.0000	-54.9961 **	-55.4174 **
2806.6500	-20.0000	-53.9910 **	-53.3856 **
3274.4250	-20.0000	-50.6797 **	-48.6624 **
3742.2000	-20.0000	-50.3360 **	-50.7402 **
4209.9750	-20.0000	-50.1401 **	-51.1776 **
4677.7500	-20.0000	-48.3773 **	-47.8707 **

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: Aiman&Nazrin

Fri, 9 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

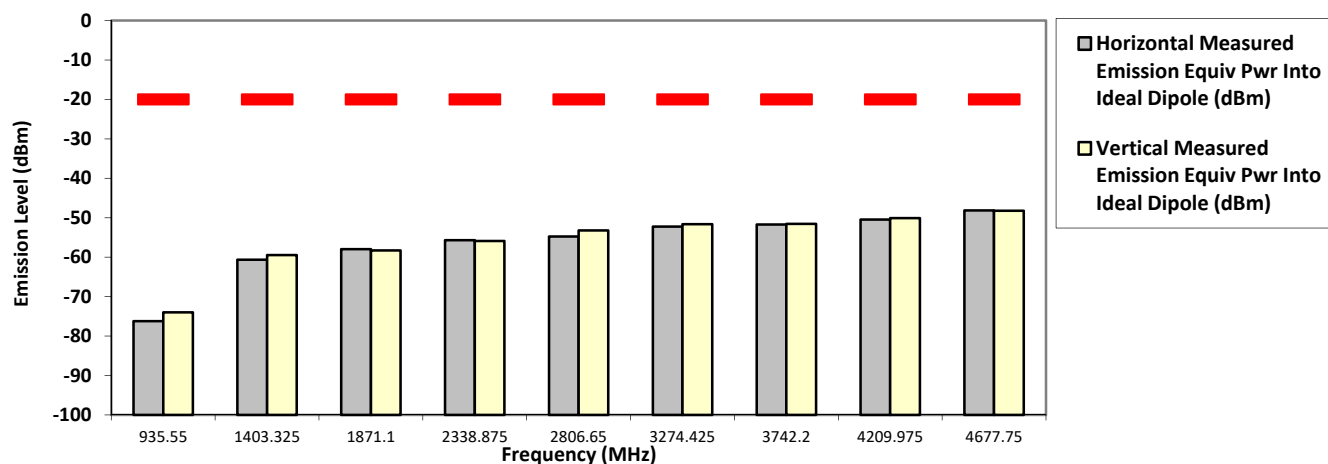
467.775000 MHz

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)
935.5500	-20.0000	-76.2055 **	-73.9901 **
1403.3250	-20.0000	-60.6333 **	-59.4791 **
1871.1000	-20.0000	-57.9702 **	-58.2905 **
2338.8750	-20.0000	-55.6763 **	-55.9097 **
2806.6500	-20.0000	-54.7761 **	-53.2037 **
3274.4250	-20.0000	-52.2405 **	-51.6190 **
3742.2000	-20.0000	-51.7267 **	-51.5606 **
4209.9750	-20.0000	-50.4693 **	-50.0983 **
4677.7500	-20.0000	-48.1666 **	-48.2336 **

RADIATED SPURIOUS EMISSIONS



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Motorola Penang EMC Lab - Test Performed by: Aiman&Nazrin
Fri, 9 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

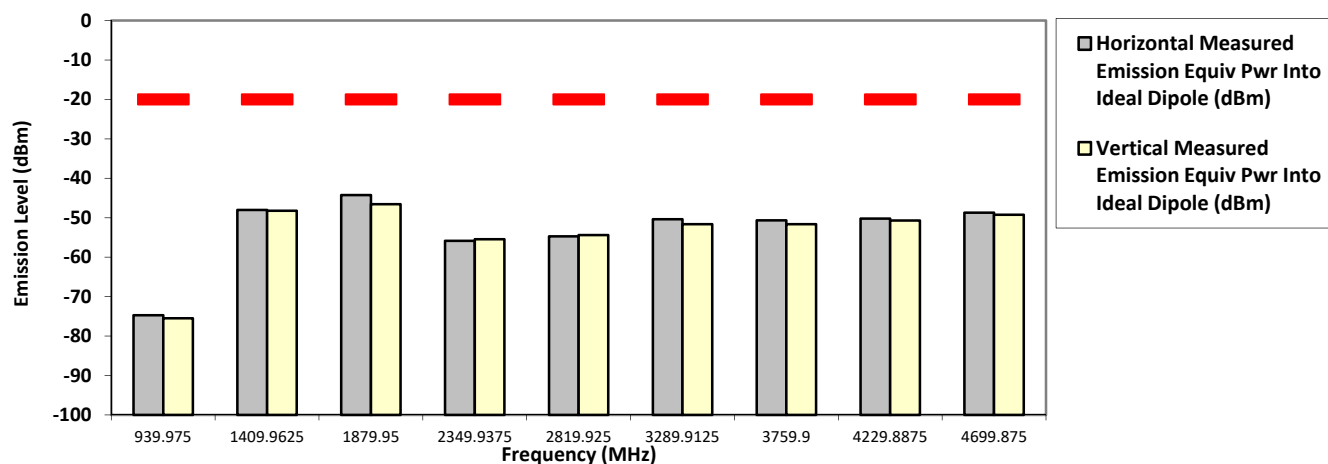
469.987500 MHz (Not for FCC review)

12.5 kHz

30.000 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)
939.9750	-20.0000	-74.7021 **	-75.4929 **
1409.9625	-20.0000	-48.0300 *	-48.2300 *
1879.9500	-20.0000	-44.2600 *	-46.5700 *
2349.9375	-20.0000	-55.8703 **	-55.4554 **
2819.9250	-20.0000	-54.7029 **	-54.3798 **
3289.9125	-20.0000	-50.3902 **	-51.6231 **
3759.9000	-20.0000	-50.6719 **	-51.6538 **
4229.8875	-20.0000	-50.2304 **	-50.7002 **
4699.8750	-20.0000	-48.6997 **	-49.2428 **

RADIATED SPURIOUS EMISSIONS



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Motorola Penang EMC Lab - Test Performed by: Aiman&Nazrin

Fri, 9 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: AAM02QNH9JA1AN
Battery Part No: NA

SAC Transmitter Radiated Emission:

S/N: 776TYP2059
Accy Part No: PMMN4089A-CF1, 956-RSN4001A-1, 734-HKN4192B-1,
956-RKN4136A-1
Test Mode: TX Digital

SR:33028-EMC-00005

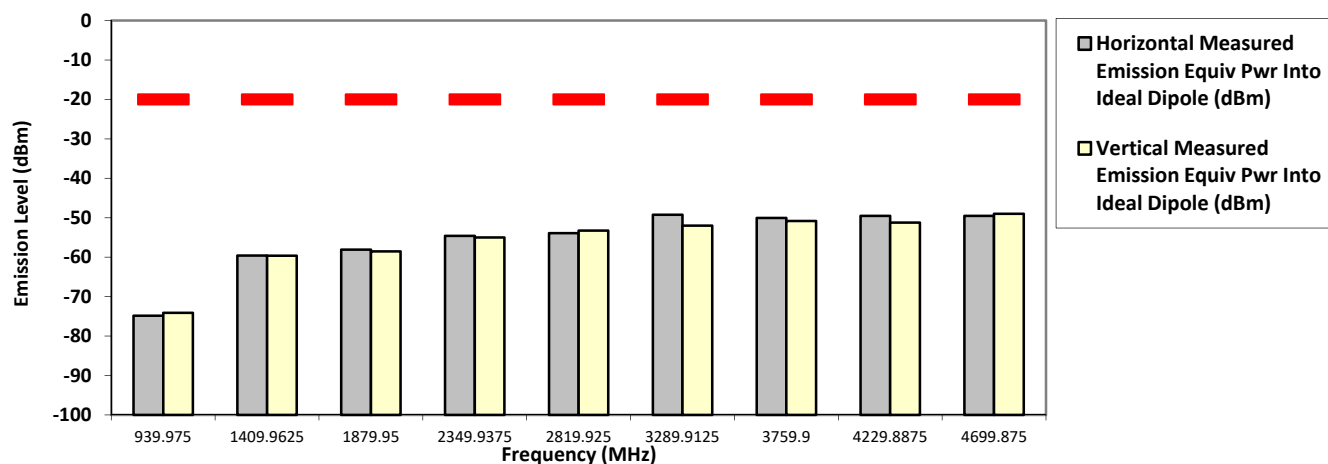
469.987500 MHz (Not for FCC review)

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)
939.9750	-20.0000	-74.8241 **	-74.1183 **
1409.9625	-20.0000	-59.5908 **	-59.6154 **
1879.9500	-20.0000	-58.0822 **	-58.5453 **
2349.9375	-20.0000	-54.6036 **	-55.0114 **
2819.9250	-20.0000	-53.9250 **	-53.2648 **
3289.9125	-20.0000	-49.2265 **	-51.9871 **
3759.9000	-20.0000	-50.0711 **	-50.8369 **
4229.8875	-20.0000	-49.5390 **	-51.2418 **
4699.8750	-20.0000	-49.5290 **	-48.9823 **

RADIATED SPURIOUS EMISSIONS



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Motorola Penang EMC Lab - Test Performed by: Aiman&Nazrin

Fri, 9 Sep, 2022

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): 24.0 Hum(%RH): 70.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

6.10.4. Test Limit

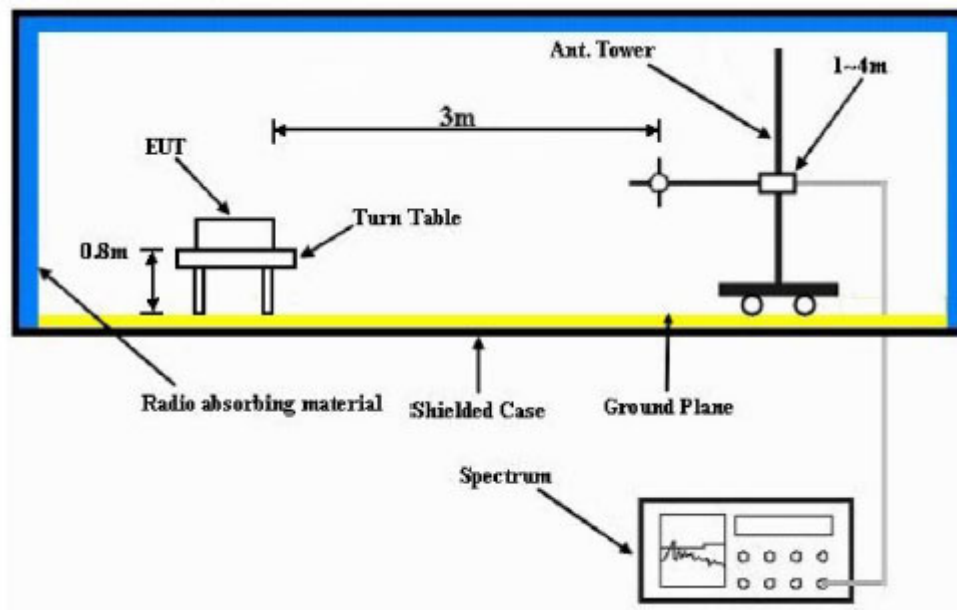
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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. Effective Radiated Power (ERP)

6.11.1. 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 Gain.

6.11.2. Test Result

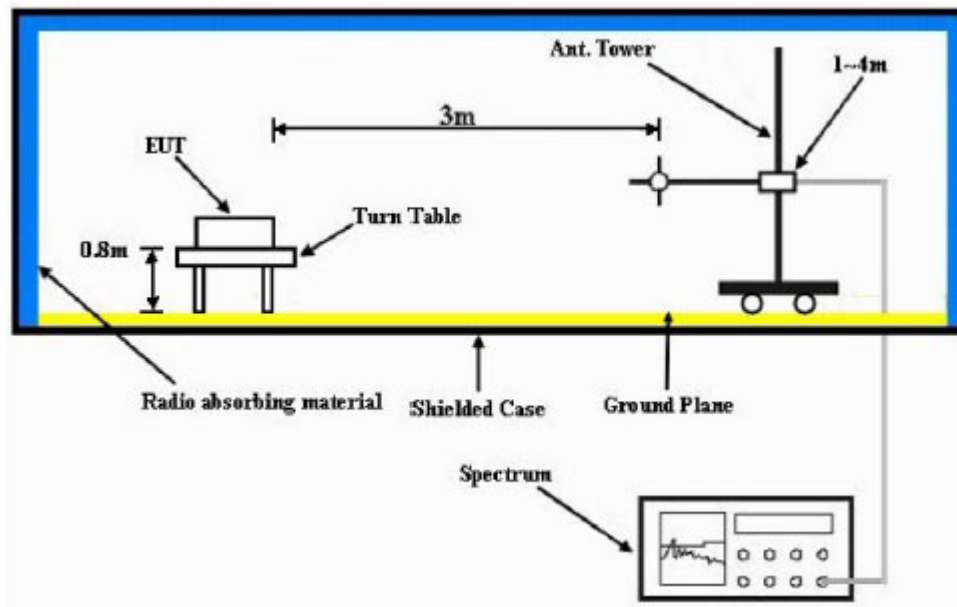
Not Applicable.

6.11.3. 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).

6.12. GNSS (EIRP for 1559 - 1610MHz)

6.12.1. 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) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

6.12.1. Test Result

Not Applicable.

6.12.2. 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 ~