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<table><tr><td>Date/s Tested</td><td>: 10-APRIL-2026 - 13-APRIL-2026</td></tr><tr><td>Report Issue Date</td><td>: 30-JULY-2026</td></tr><tr><td>Test Site Location</td><td>: Motorola Penang Advanced Communication Laboratory (ACL)</td></tr><tr><td>Manufacturer</td><td>: Motorola Solutions INC. (Plantation)</td></tr><tr><td>Manufacturer Address</td><td>: Motorola Solutions INC. (Plantation), 8000 West Sunrise Blv d MD 41-128, USA Plantation FL 333222-9947 Malaysia</td></tr><tr><td>Requestor</td><td>: DELGADO HAROLD</td></tr><tr><td>Product Type</td><td>: PORTABLE</td></tr><tr><td>Product Version (PMN)</td><td>: APX NEXT</td></tr><tr><td>Model Number (HVIN)</td><td>: H55TGT9PW8BN</td></tr><tr><td>Frequency Band</td><td>: 806-825 MHz, 851-870 MHz</td></tr><tr><td>Max RF Output Power</td><td>: 3.6 Watts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia.</td></tr><tr><td>CAB ID</td><td>: MY0001</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>Firmware Version (FVIN)</td><td>: R37.10.00</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(LMR)</td><td></td></tr><tr><td>FCC 47 CFR Part 90</td><td></td></tr><tr><td>ISED RSS-Gen Issue 5, Amendment 1 (Mar 2019), Amendment 2 (Feb 2021)</td><td>PASS</td></tr><tr><td>ISED RSS-119 Issue 12, Amendment 1 (April 1, 2022), Amendment 2 (July 28,2025)</td><td></td></tr></table>		Date/s Tested	: 10-APRIL-2026 - 13-APRIL-2026	Report Issue Date	: 30-JULY-2026	Test Site Location	: Motorola Penang Advanced Communication Laboratory (ACL)	Manufacturer	: Motorola Solutions INC. (Plantation)	Manufacturer Address	: Motorola Solutions INC. (Plantation), 8000 West Sunrise Blv d MD 41-128, USA Plantation FL 333222-9947 Malaysia	Requestor	: DELGADO HAROLD	Product Type	: PORTABLE	Product Version (PMN)	: APX NEXT	Model Number (HVIN)	: H55TGT9PW8BN	Frequency Band	: 806-825 MHz, 851-870 MHz	Max RF Output Power	: 3.6 Watts	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia.	CAB ID	: MY0001	FCC Registrations	: 461337	Firmware Version (FVIN)	: R37.10.00	(LMR)		FCC 47 CFR Part 90		ISED RSS-Gen Issue 5, Amendment 1 (Mar 2019), Amendment 2 (Feb 2021)	PASS	ISED RSS-119 Issue 12, Amendment 1 (April 1, 2022), Amendment 2 (July 28,2025)	
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Prepared By:  Putri Nur Sarah Sofia Test Personnel	Approved Signatory:  Ho Sze Khian Responsible Engineer																																								

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Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	30-July-2026	Putri
Rev. B	Update RF Power Output Data	27-August-2026	Putri

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	Analog, C4FM, Phase II

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
BATTERY PACK,BATT IMPRES 2 LIION IP68 5800T	MOTOROLA	PMNN4895A

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

ANSI C63.26-2015

No modifications were done to the UUT to facilitate the tests in this report.

Deviation from standard

Not applicable as no deviation from standard test method

Antenna gain disclaimer

Antenna gain information is provided by customer. The validity of the results is dependent upon this information. The lab will not be held accountable in the event the supplied information affects compliance.

Test configuration of EUT

All relevant configurations involving radio models and accessories (including chargers, batteries, and antennas) were assessed. Only worst-case configurations will be included in this report.

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	ISED General Rules Part	Test Item	Result	Remarks	Serial number tested
2.1046(a)	RSS-119	RF Power Output	PASS		437ZCC3312
2.1055	RSS-119	Frequency Stability	NA		
2.1047	-	Audio Frequency Response	NA		
2.1047	-	Audio Low Pass Filter Response	NA		
2.1047	-	Modulation limiting	NA		
2.1049, 90.21,	RSS-119	Occupied Bandwidth	NA		
2.1051, 22.359 (a), (b)	-	Band Edge Conducted Spurious Emission	NA		
90.214	RSS-119	Transient Frequency Behavior	NA		
90.543(a), (b)	RSS-119	Adjacent Channel Power	NA		
2.1051, 90.210	RSS-119	Conducted Spurious Emissions	Pass	Worst case: -44.58 dBm	437ZCC3312
2.1051	RSS-119	Radiated Spurious Emission	Pass	Worst case: -43.88 dBm (margin: 23.88 dB), NF	437ZCC3311
-	-	GNSS (EIRP for 1559 – 1610MHz)	NA		
-	-	Effective Radiated Power (ERP)	NA		

NA → Not Applicable

3.0 Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.48 dB
Radiated Emissions up to 1 GHz dBμV/m(Field Strength)	30MHz ~ 1000MHz	5.88 dB
Radiated Emissions above 1 GHz dBμV/m(Field Strength)	1GHz ~ 18GHz	5.84 dB
	18GHz ~ 40GHz	6.02 dB
Radiated Emissions dBm (ERP/EiRP)	30MHz ~ 18GHz	4.03 dB
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82 dB
Frequency Stability	9kHz ~ 12.75GHz	0.0085 ppm
Audio Frequency Response / Low Pass FilterResponse	300Hz – 20kHz	4.09 %
Modulation Limiting	300Hz – 3kHz	1.15 %
Occupied Bandwidth	9kHz ~ 12.75GHz	2.82 dB
Band Edge Conducted Spurious Emission	9kHz ~ 12.75GHz	2.82 dB
Transient Frequency Behavior	9kHz ~ 12.75GHz	5.4 ms
Adjacent Channel Power	9kHz ~ 12.75GHz	2.82 dB

4.0 Equipment List

FCC CONDUCTED SPUR EMISSION ATE # 1 (SW version: Conducted Spur ATE_rev 1.23.07)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A32735	Not Required	Not Required
INTERFACE BOX - FILTER	NA	CS001	Not Required	Not Required
POWER SUPPLY	6032A	2723A02219	27-Aug-25	27-Aug-26
SPECTRUM ANALYZER	E4445A	MY45301089	20-Sep-25	20-Sep-26
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 2	SF126/11N/11N	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
Aeroflex Attenuator 30dB	49-30-43-LIM	NA	NA	NA
Aeroflex Attenuator 10dB	33-10-34-LIM	NA	NA	NA

RADIATED EMISSION

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	719	31-Oct-25	31-Oct-26
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
DC Power Supply	6031A	3313A02730	06-Oct-25	06-Oct-26
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101731	11-Aug-25	10-Aug-26
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	Not Required	Not Required
BILOG ANTENNA	CBL 6112D	55546	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112B	2964	06-Nov-25	06-Nov-26
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	16-Jul-25	16-Jul-26
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	090308-5	Not Required	Not Required
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-25	30-Sep-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	Not Required	Not Required
PREAMPLIFIER 1-18GHz	EMC0518A45SE	981005	19-Sep-25	18-Sep-26
PREAMPLIFIER	PAM-0118P	361	29-Sep-23	29-Sep-26
LOOP ANTENNA	6502	00208416	06-Nov-25	06-Nov-26
Test Software	EMC.FCC.IC.RE.v1.8.2			
Version	1.8.2			

5.0 Test Condition

5.1. Transmitter Test Conditions

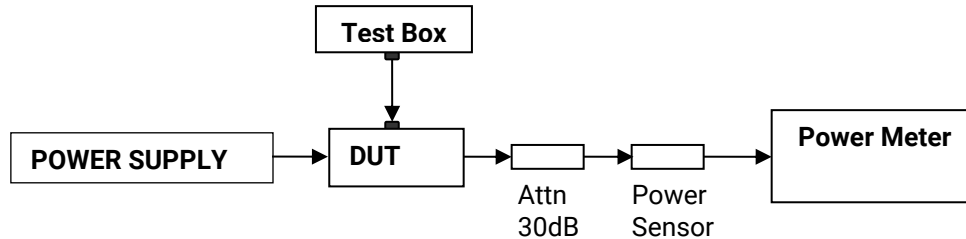
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By	Environmental conditions
RF Output Power	Low & Max	FM	138.0125, 158.55, 161.7, 173.3875, 380.0125, 406.2, 450.025, 459.125, 467.775, 469.9875, 482.0125, 511.9875, 519.9875, 762.0125, 768.0125, 769.0875, 774.8875, 775.9875, 792.0125, 798.0125, 799.0875, 804.9125, 805.9875, 806.0125, 814.9875, 823.9875, 851.0125, 860.0125, 868.8875	Farah	23.4°C, 50%RH
Frequency Stability	Max	FM	NA	Farah	
Audio Frequency Response (12.5kHz / 25kHz)	Max	FM	NA	Farah	
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	FM	NA	Farah	
Modulation limiting (12.5kHz / 25kHz)	Max	FM	NA	Farah	
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	FM/C4FM/Phase II	NA	Farah	
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 25kHz)	Max	FM/C4FM/Phase II	NA	Farah	
Transient Frequency Behavior (UHF & VHF Band) (12.5kHz / 25kHz)	Max	FM	NA	Farah	
Adjacent Channel Power (700MHz Band) (12.5kHz / 25kHz)	Max	FM/C4FM/Phase II	NA		
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	FM/C4FM/Phase II	806.0125, 814.9875, 823.9875, 851.0125, 860.0125, 868.8875	Farah	23.4°C, 50%RH
Radiated Spurious Emission (12.5kHz / 25kHz)	Low / Max	FM/4FSK	806.0125, 814.9875, 823.9875, 851.0125, 860.0125, 868.8875	Rezza & Fuad	23.4°C, 50%RH
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	FM	NA		
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	FM	NA		

NA → Not Applicable

6.0 Transmitter Test Parameters

6.1. RF Output Power

6.1.1. Test Setup



- 1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and average power sensor with above setup.
- 2) Path loss for the measurement included.
- 3) All the measurement was done at low, mid, high frequency for each band, with unmodulated carrier.
- 4) Record the power into the test report.

6.1.2. Test Result

Temperature	25°C				Remark
Voltage (V)	7.5V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
138.01250	0.97	1.08	6.49	2.13	Not for FCC review
158.55000	0.97	1.09	6.47	2.13	
161.70000	0.97	1.11	6.45	2.19	
173.98750	0.97	1.11	6.49	2.19	

Temperature	25°C				Remark
Voltage (V)	7.5V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
380.01250	0.99	1.20	5.63	2.31	Not for FCC review
406.20000	0.98	1.26	5.58	2.43	
450.02500	0.99	1.23	5.70	2.31	
459.12500	0.99	1.20	5.68	2.28	
467.77500	0.99	1.32	5.66	2.31	
469.98750	0.99	1.23	5.65	2.34	
482.01250	0.98	1.20	5.66	2.22	
511.98750	0.97	1.20	5.54	2.28	
519.98750	0.97	1.17	5.49	2.25	Not for FCC review

Temperature	25°C				Remark
Voltage (V)	7.5V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
762.01250	0.98	1.23	2.98	1.86	Not for FCC review
768.01250	0.98	1.23	2.98	1.86	Not for FCC review
769.08750	0.98	1.23	2.98	1.80	
774.88750	0.98	1.20	2.98	1.80	
775.98750	0.98	1.20	2.97	1.74	Not for FCC review
792.01250	0.98	1.20	2.98	1.80	Not for FCC review
798.01250	0.98	1.21	2.98	1.74	Not for FCC review
799.08750	0.98	1.21	2.98	1.71	
804.91250	0.98	1.24	2.98	1.74	
805.98750	0.98	1.20	2.97	1.74	Not for FCC review

Temperature	25°C			
Voltage (V)	7.5V			
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)
806.01250	0.97	1.17	3.50	1.95
814.98750	0.98	1.14	3.51	1.86
823.98750	0.98	1.14	3.51	1.83
851.01250	0.98	1.02	3.49	1.78
860.01250	0.98	1.02	3.48	1.71
868.88750	0.97	1.02	3.47	1.74

Remark:

Low Power is within ± 1 dB of the manufacturer's Rated Power 25W (19.86W - 31.47W)

Max Power is within ± 1 dB of the manufacturer's Rated Power 45W (35.74W - 56.65W)

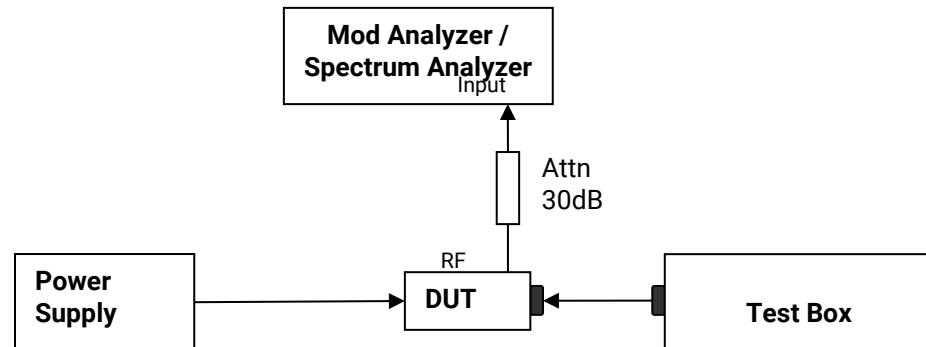
6.1.3. Test Limit

For RSS-119

Table 2 – Transmitter Output Power	
Frequency Bands (MHz)	Transmitter Output Power (W)
	Mobile Equipment
138-174	60
406.1-430 and 450-470	60
768-776 and 798-806	30
	3W ERP for portable equipment
806-821/851-866 and 821-824/866-869	30

6.2. Frequency Stability

6.2.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation / Spectrum Analyzer.
- 2) Path loss for the measurement included.
- 3) Transmit the DUT and record the freq in MCF_{MHz} .
- 4) Test in 2 conditions:
 - Temperature: The frequency of the transmitter was measured from -30°C to 50°C.
 - Supply Voltage:
 - Mobile: The frequency of the transmitter was measured from 85% to 115% of the nominal operating input voltage.
 - Portable: The frequency of the transmitter was measured from nominal $\pm x$ % as specified by the manufacturer
- 5) Calculate the ppm frequency error by the following:

$$ppm\ error = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) * 10^6$$

Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz

6.2.2. Test Result

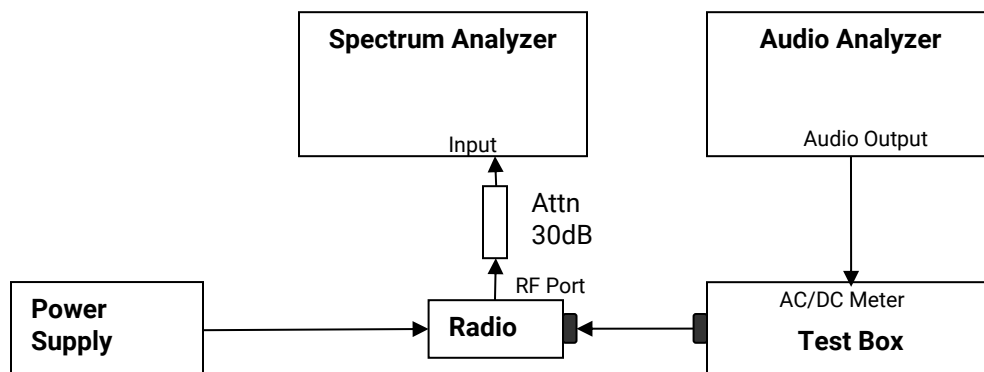
Not Applicable

6.2.3. Test Limit

As per manufacturer declared spec +/- 0.5ppm

6.3. Modulation Characteristics

6.3.1. Test Setup

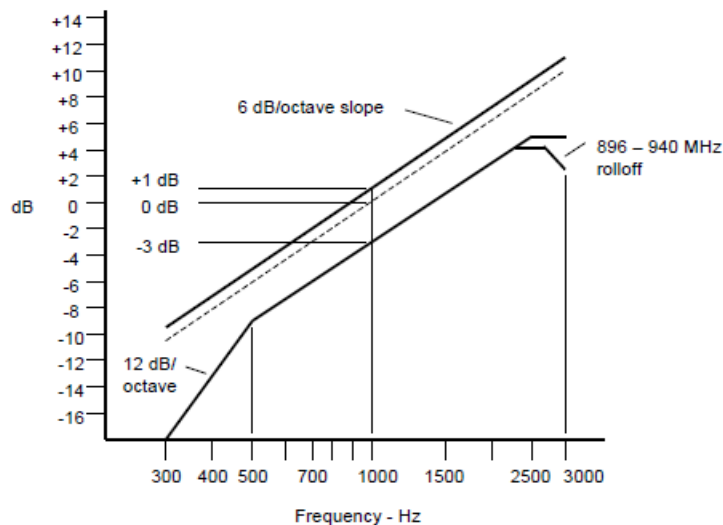


- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5) On audio analyzer, set the rated level as 0dB reference
- 6) Vary the audio frequency from 300 Hz to 20 kHz. Record the change in modulation in reference to step 5.

6.3.2. Test Result

Not Applicable

6.3.3. Test Limit

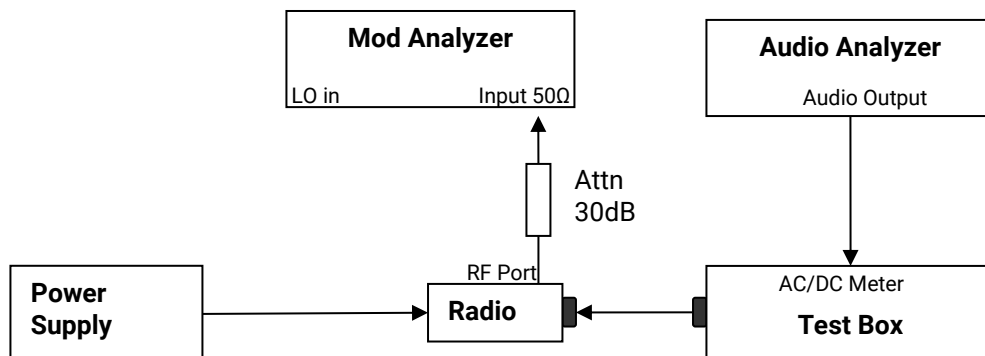


Note:

- o There are additional 6 dB per octave attenuation is allowed from 2.5KHz to 3KHz in equipment 25MHz to 869MHz radio.
- o Additional 6 dB per octave attenuation is allowed from 2.3KHz to 2.7KHz & additional 12 dB per octave attenuation is allowed from 2.7KHz to 3KHz in equipment 896MHz to 940MHz radio.

6.4. Modulation Limiting

6.4.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 5) Record the frequency deviation as 0dB input level at 1kHz audio frequency.
- 6) Repeat the step and record the frequency deviation from -20 dB to 20dB by 5 dB increments and different audio freq 300 Hz, 2.5 kHz and 3 kHz.

6.4.2. Test Result

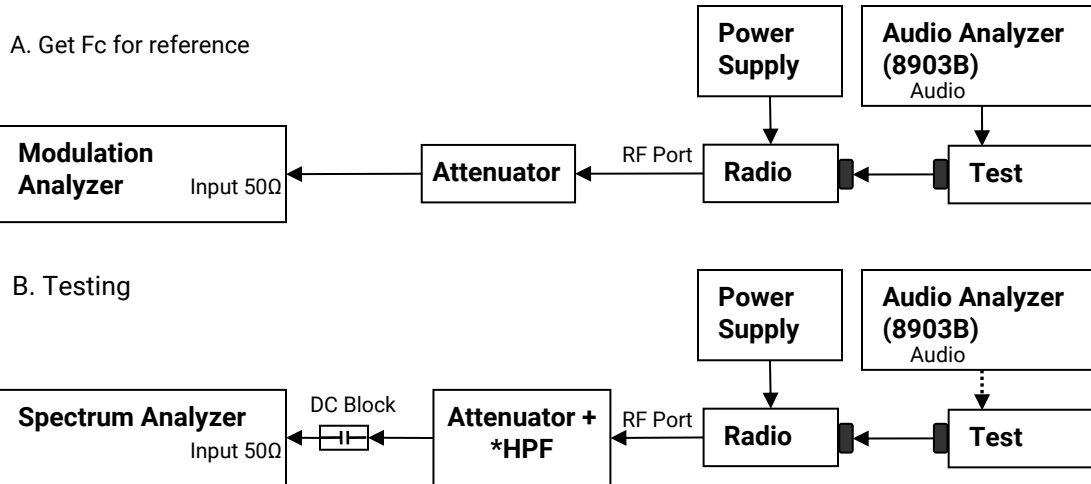
Not Applicable

6.4.3. Test Limit

Modulation Limiting shall not exceed 100 percent.

6.5. Occupied Bandwidth

6.5.1. Test Setup (Analog)



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 4) Path loss for the measurement included.
- 5) Select the Occupied Bandwidth measurement for 99% Emissions Bandwidth Measurement.
- 6) Key in the F_c and Resolution Bandwidth (RBW is 240Hz, within 1 ~ 5 % of emission designator).
- 7) Transmit the DUT and record the occupied Bandwidth frequency.
- 8) Preset the spectrum analyzer for sideband spectrum measurement.
- 9) Set the span and Resolution Bandwidth (according to FCC/ ISSED standard).
- 10) Save the screen shot as modulated signal
- 11) Remove the audio tone from audio analyzer to capture unmodulated signal.

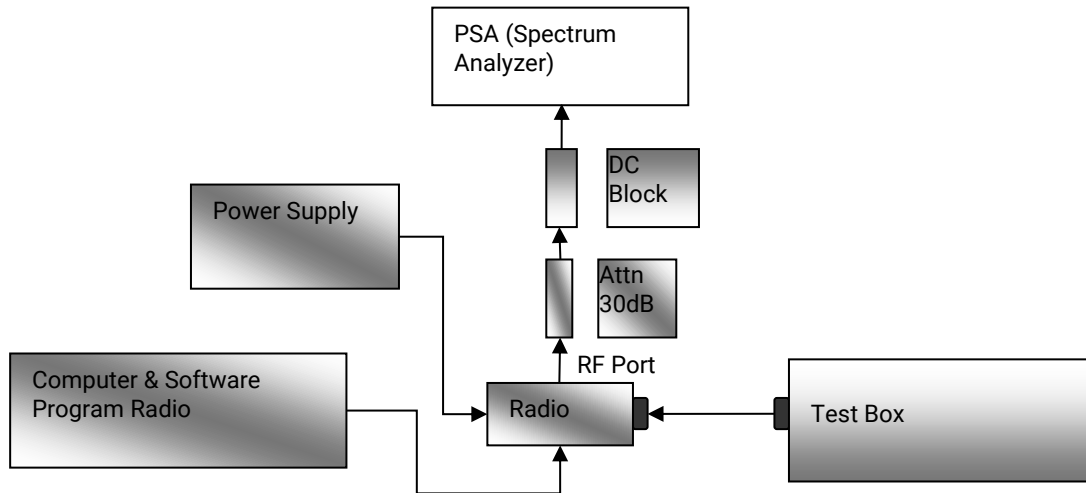
* Only HPF added for Mask 80.211 measurement with attenuator.

* 99% Bandwidth measurement is computed by the spectrum analyzer and is consistent with the C63.26 5.4.4 method.

6.5.2. Test Result (Analog)

Not Applicable

6.5.3. 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% Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth (1 ~ 5 % of emission designator).
- 5) Transmit the DUT and record the occupied Bandwidth frequency.
- 6) Preset the spectrum analyzer for modulation emission spectrum measurement.
- 7) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 8) Capture the screen shot as modulated signal.

* 99% Bandwidth measurement is computed by the spectrum analyzer and is consistent with the C63.26 5.4.4 method.

*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.

6.5.4. Test Result (Digital)

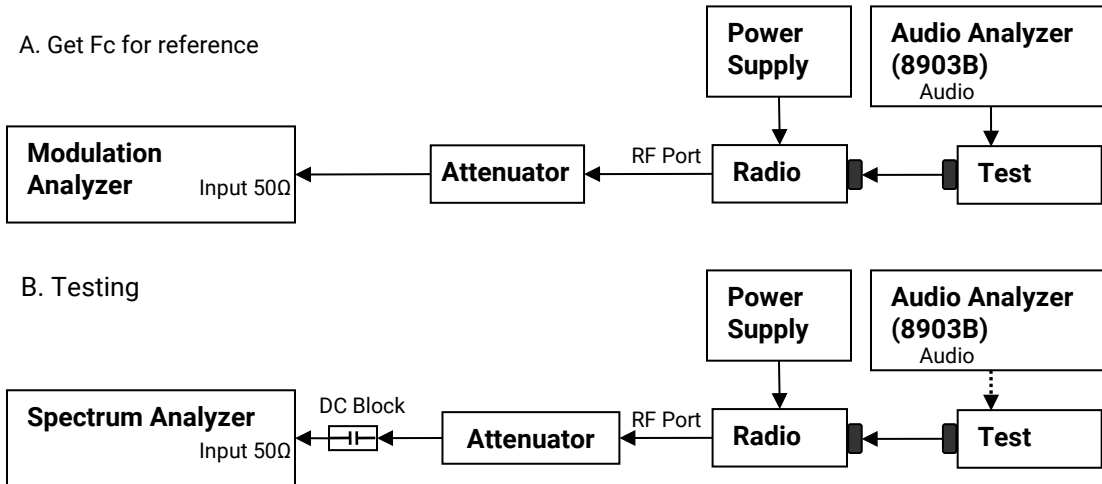
Not Applicable

6.5.5. Test Limit

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

6.6. Band Edge Conducted Spurious Emission (Part 22)

6.6.1. Test Setup (Analog)



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 4) Path loss for the measurement included.
- 5) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 6) Key in the Fc and Resolution Bandwidth.
- 7) Transmit the DUT and record the occupied Bandwidth frequencies.
- 8) Preset the spectrum analyzer for band edge measurement.
- 9) The band edges of lowest and highest channels were measured.
- 10) Key in the Lowest and highest channel frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 11) Save the screen shot as modulated signal.
- 12) Remove the audio tone from audio analyzer to capture unmodulated signal.

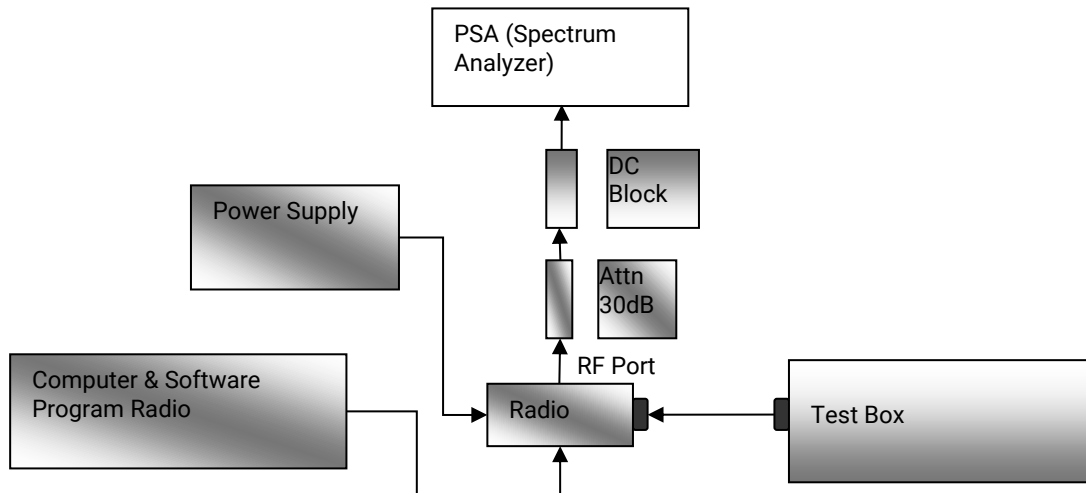
*Note:

- For emission designator ending with F3E, 16K0F3E is the worst case and therefore only 16K0F3E will be shown.

6.6.2. Test Result (Analog)

Not Applicable

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)

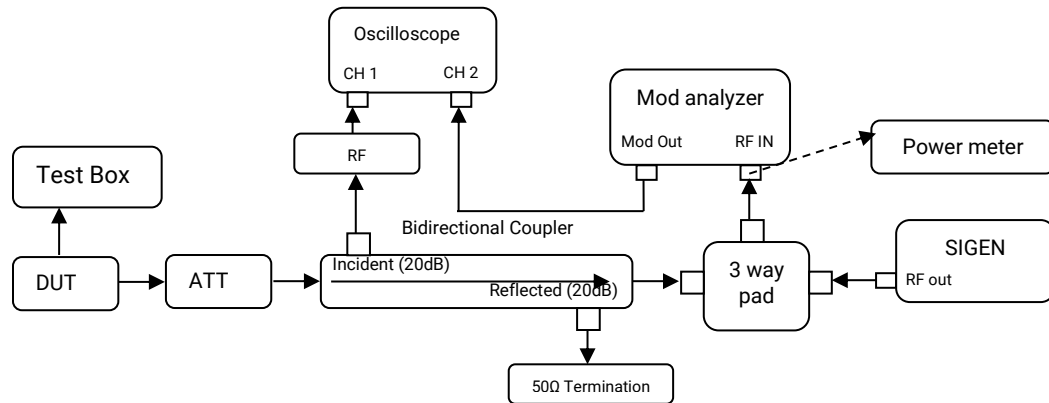
Not Applicable

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 Applicable

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.

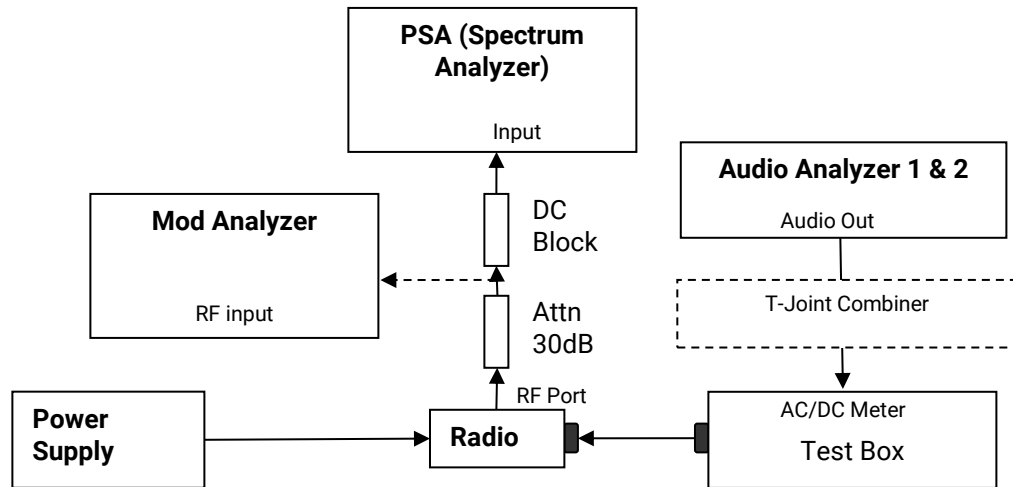
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

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

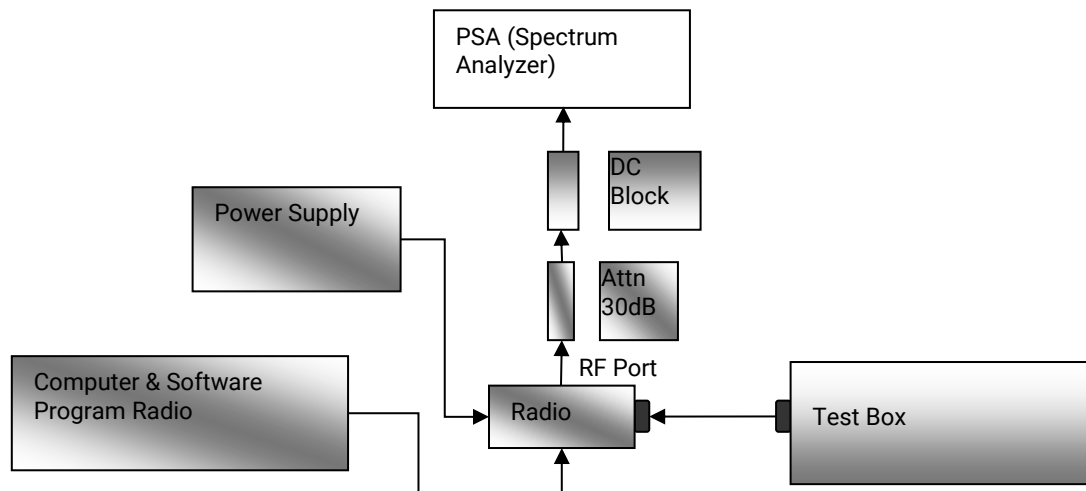
6.8.1. Test Setup (Analog)



- 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

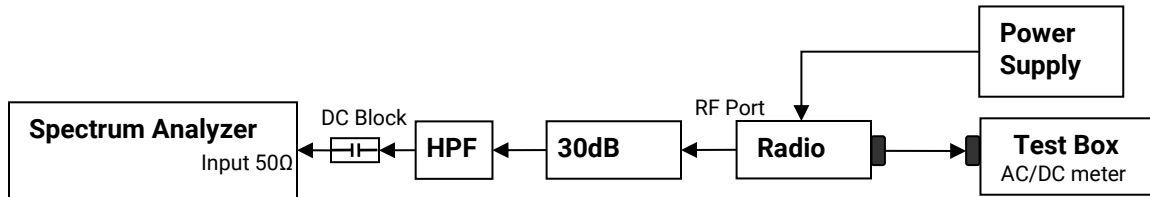
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band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

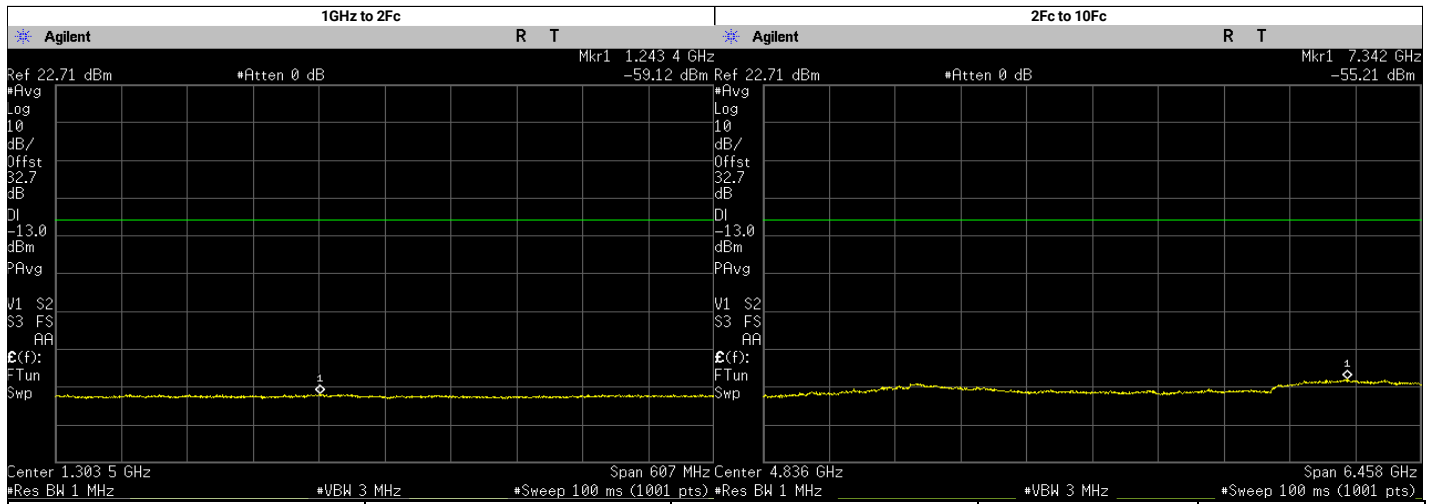
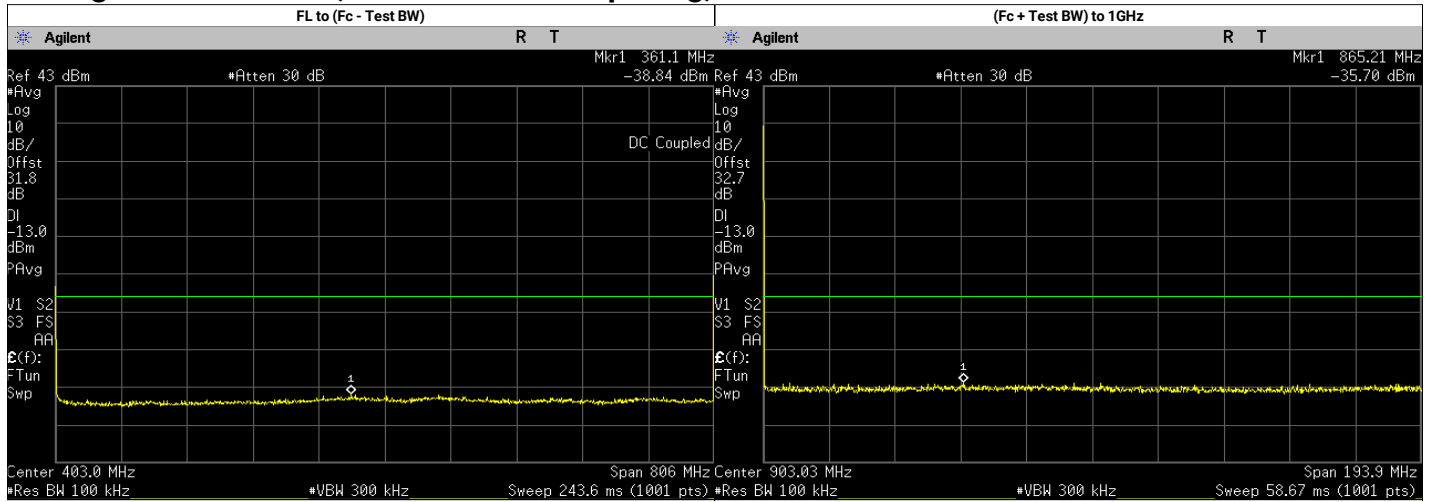
6.9.1. Test Setup



- 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. $9 \text{ KHz to } F_c - \text{Test Bandwidth}$
 - 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.

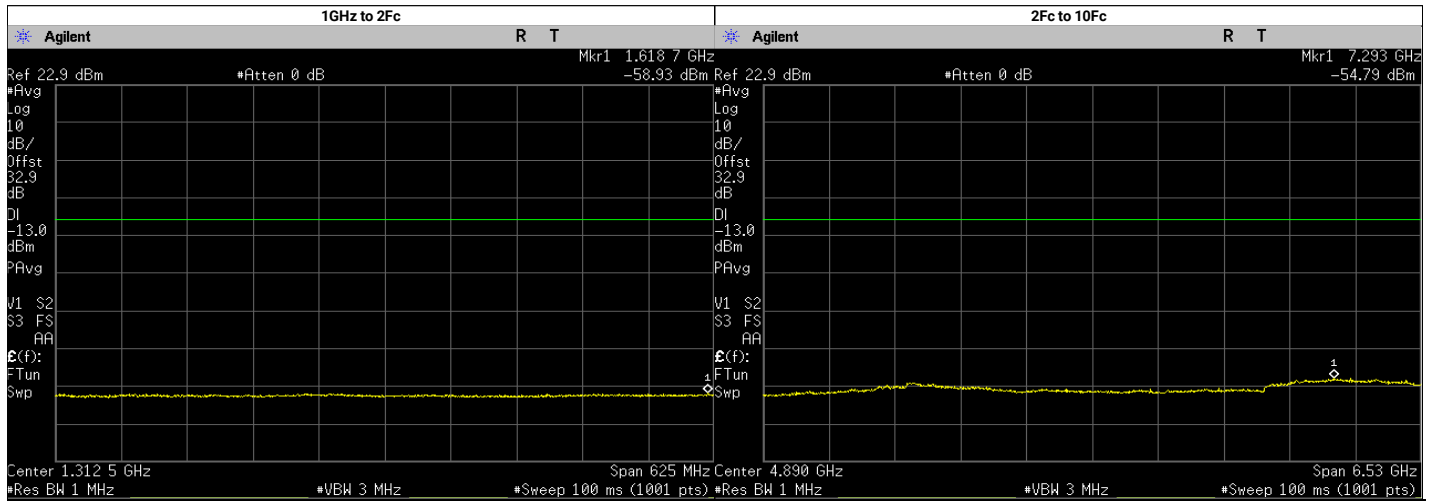
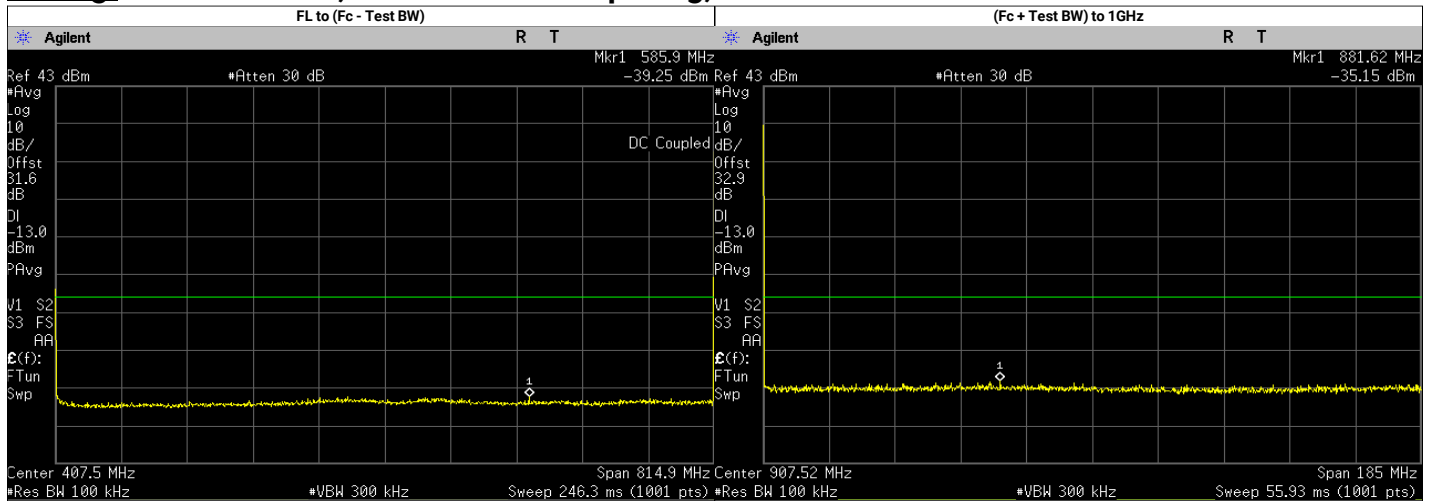
6.9.2. Test Result (Analog)

Analog: 806.0125 MHz, 25 kHz Channel Spacing, Max Power



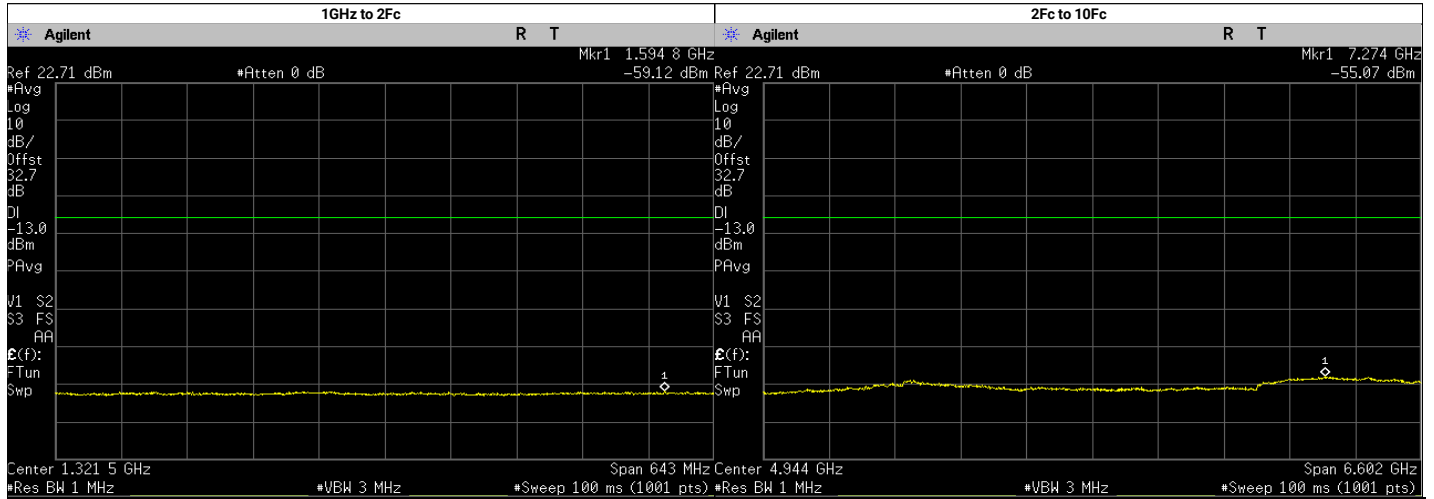
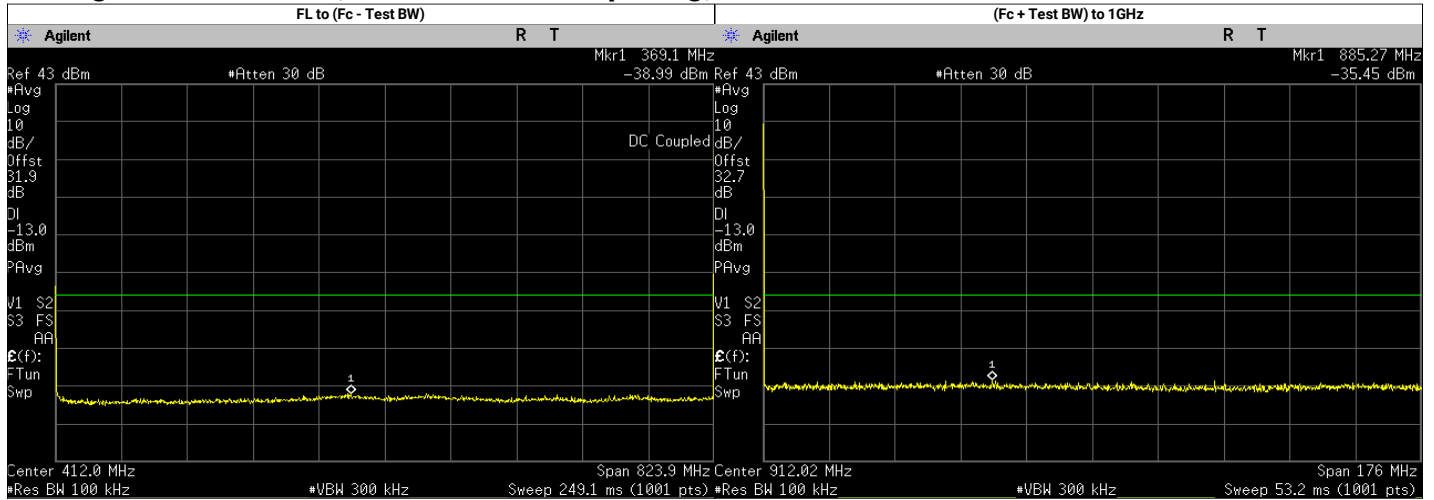
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	361.1000	-38.8430	-13	PASS
(Fc + Test BW) to 1GHz	865.2134	-35.7000	-13	PASS
1GHz to 2Fc	1243.4170	-59.1200	-13	PASS
2Fc to 10Fc	7341.8180	-55.2100	-13	PASS
	1612.0250	-59.7636	-13	PASS
	2418.0370	-58.4394	-13	PASS
	3224.0500	-57.3030	-13	PASS
	4030.0620	-58.2377	-13	PASS
	4836.0750	-58.6480	-13	PASS
	5642.0870	-58.9185	-13	PASS
	6448.1000	-58.4839	-13	PASS
	7254.1130	-55.7432	-13	PASS
	8060.1250	-56.6593	-13	PASS

Analog: 814.9875 MHz, 25 kHz Channel Spacing, Max Power



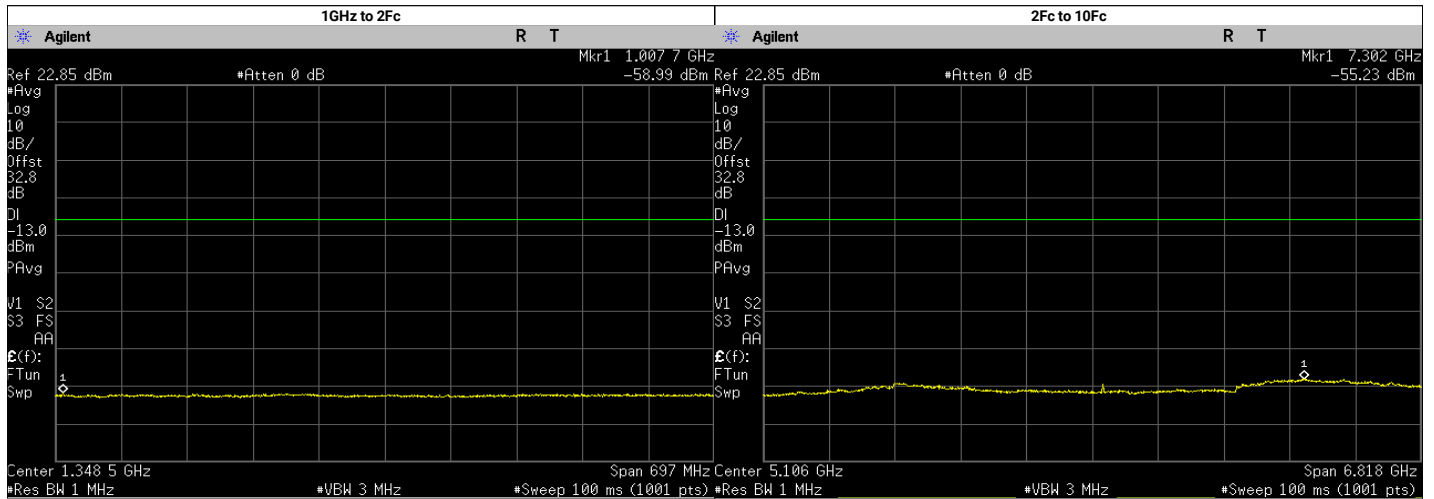
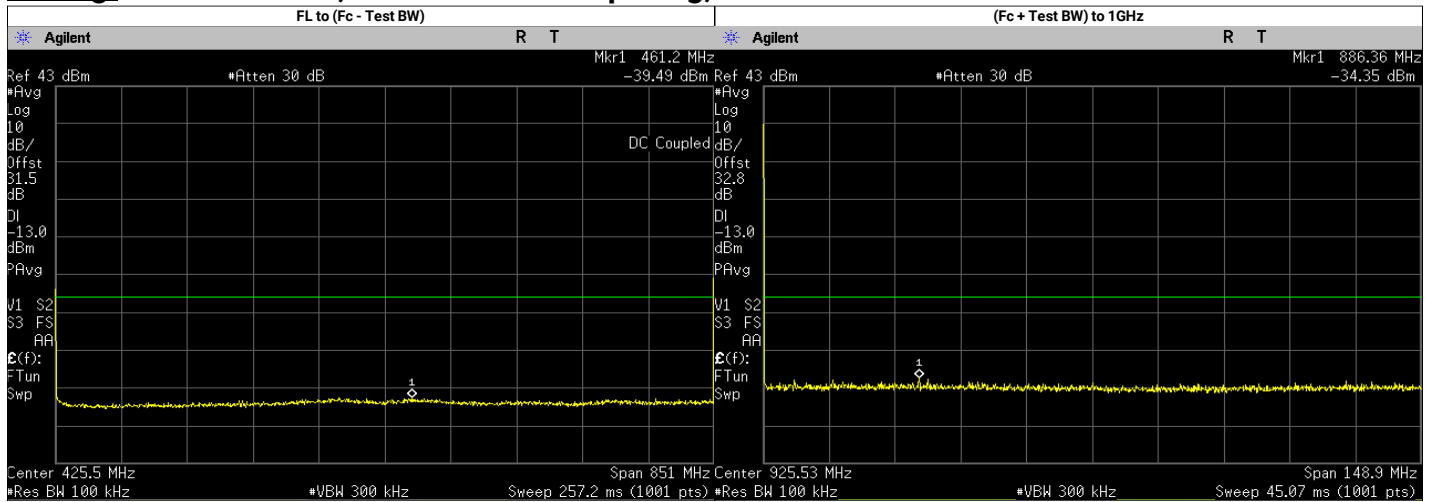
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	585.9000	-39.2520	-13	PASS
(Fc + Test BW) to 1GHz	881.6240	-35.1500	-13	PASS
1GHz to 2Fc	1618.7250	-58.9300	-13	PASS
2Fc to 10Fc	7292.9280	-54.7900	-13	PASS
	1629.9750	-59.5126	-13	PASS
	2444.9630	-58.4707	-13	PASS
	3259.9500	-56.6536	-13	PASS
	4074.9370	-58.1326	-13	PASS
	4889.9250	-58.4530	-13	PASS
	5704.9130	-58.3707	-13	PASS
	6519.9000	-58.1538	-13	PASS
	7334.8870	-55.4872	-13	PASS
	8149.8750	-56.6273	-13	PASS

Analog: 823.9875 MHz, 25 kHz Channel Spacing, Max Power



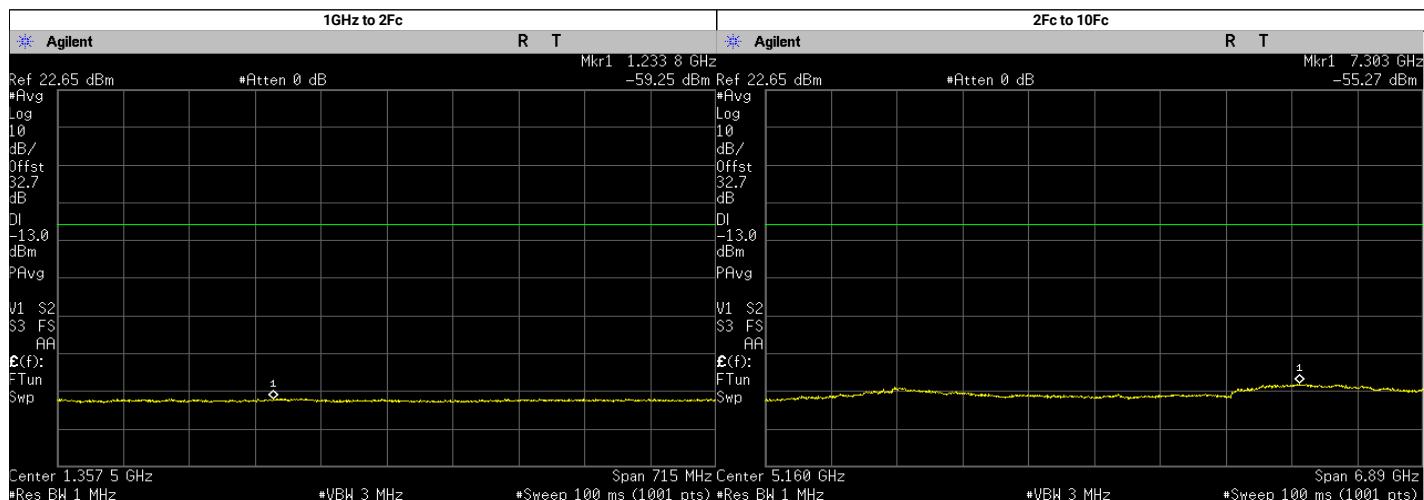
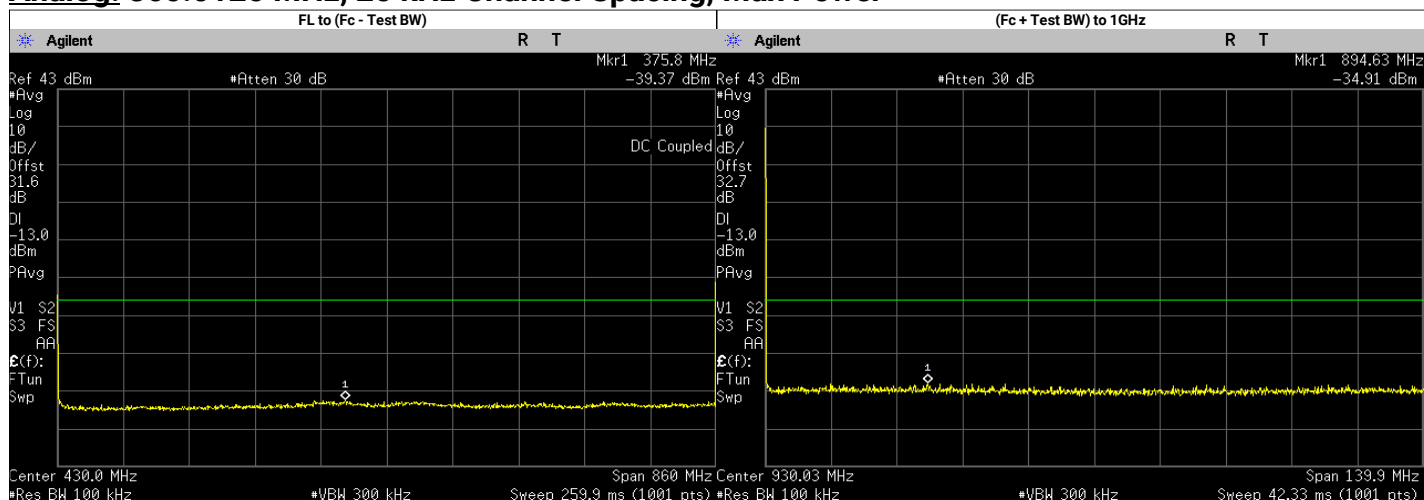
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	369.1000	-38.9890	-13	PASS
(Fc + Test BW) to 1GHz	885.2725	-35.4500	-13	PASS
1GHz to 2Fc	1594.7520	-59.1200	-13	PASS
2Fc to 10Fc	7274.3960	-55.0700	-13	PASS
	1647.9750	-59.3502	-13	PASS
	2471.9630	-58.5485	-13	PASS
	3295.9500	-57.0587	-13	PASS
	4119.9370	-58.4208	-13	PASS
	4943.9250	-58.7490	-13	PASS
	5767.9130	-58.5845	-13	PASS
	6591.9000	-58.7305	-13	PASS
	7415.8870	-55.8706	-13	PASS
	8239.8750	-56.7473	-13	PASS

Analog: 851.0125 MHz, 25 kHz Channel Spacing, Max Power



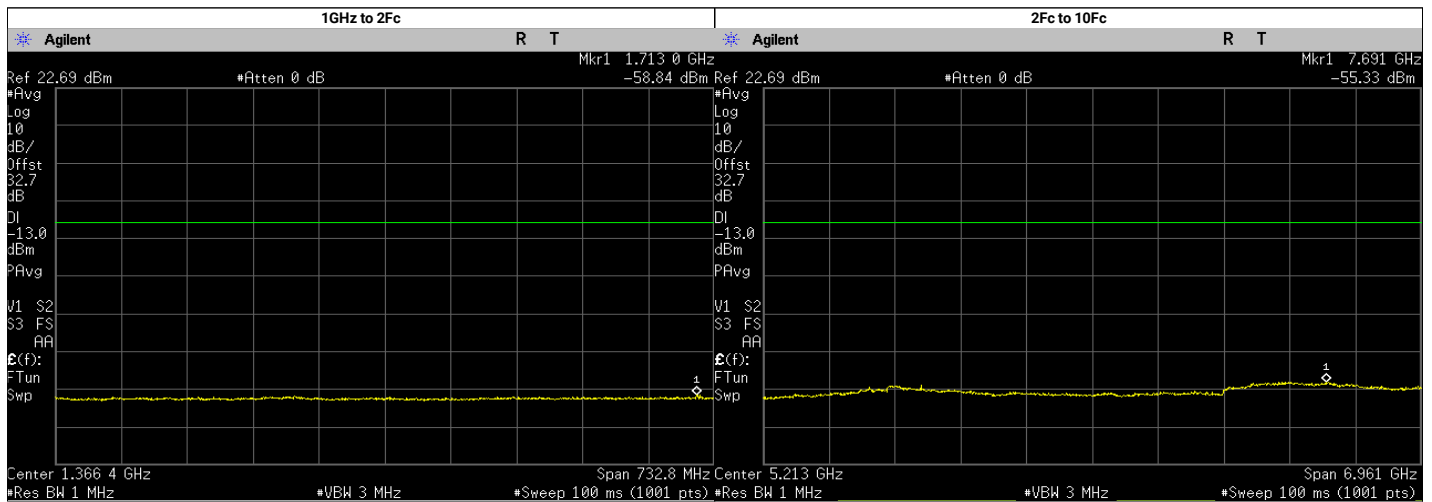
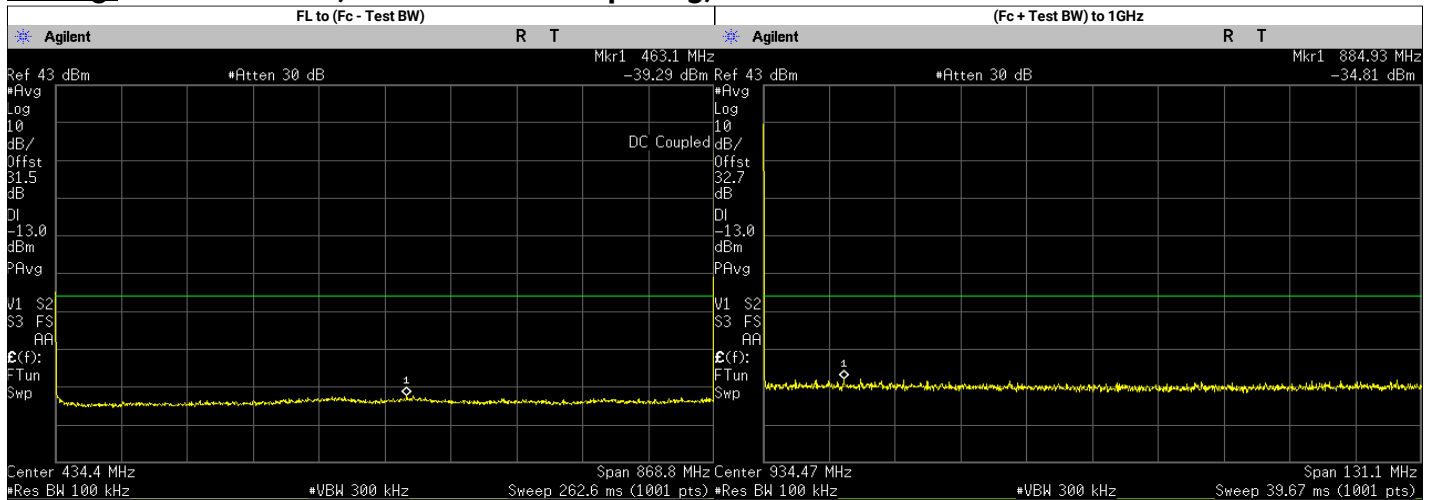
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	461.2000	-39.4860	-13	PASS
(Fc + Test BW) to 1GHz	886.3607	-34.3500	-13	PASS
1GHz to 2Fc	1007.6670	-58.9900	-13	PASS
2Fc to 10Fc	7301.5030	-55.2300	-13	PASS
	1702.0250	-59.4321	-13	PASS
	2553.0370	-58.4649	-13	PASS
	3404.0500	-57.3433	-13	PASS
	4255.0620	-58.6384	-13	PASS
	5106.0750	-58.4250	-13	PASS
	5957.0870	-58.2721	-13	PASS
	6808.1000	-56.8460	-13	PASS
	7659.1130	-55.8631	-13	PASS
	8510.1250	-57.1919	-13	PASS

Analog: 860.0125 MHz, 25 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	375.8000	-39.3740	-13	PASS
(Fc + Test BW) to 1GHz	894.6271	-34.9100	-13	PASS
1GHz to 2Fc	1233.8130	-59.2500	-13	PASS
2Fc to 10Fc	7302.8960	-55.2700	-13	PASS
	1720.0250	-59.7117	-13	PASS
	2580.0370	-58.5210	-13	PASS
	3440.0500	-57.5466	-13	PASS
	4300.0620	-58.7805	-13	PASS
	5160.0750	-58.9850	-13	PASS
	6020.0870	-58.3117	-13	PASS
	6880.1000	-56.4300	-13	PASS
	7740.1130	-55.9977	-13	PASS
	8600.1250	-56.9806	-13	PASS

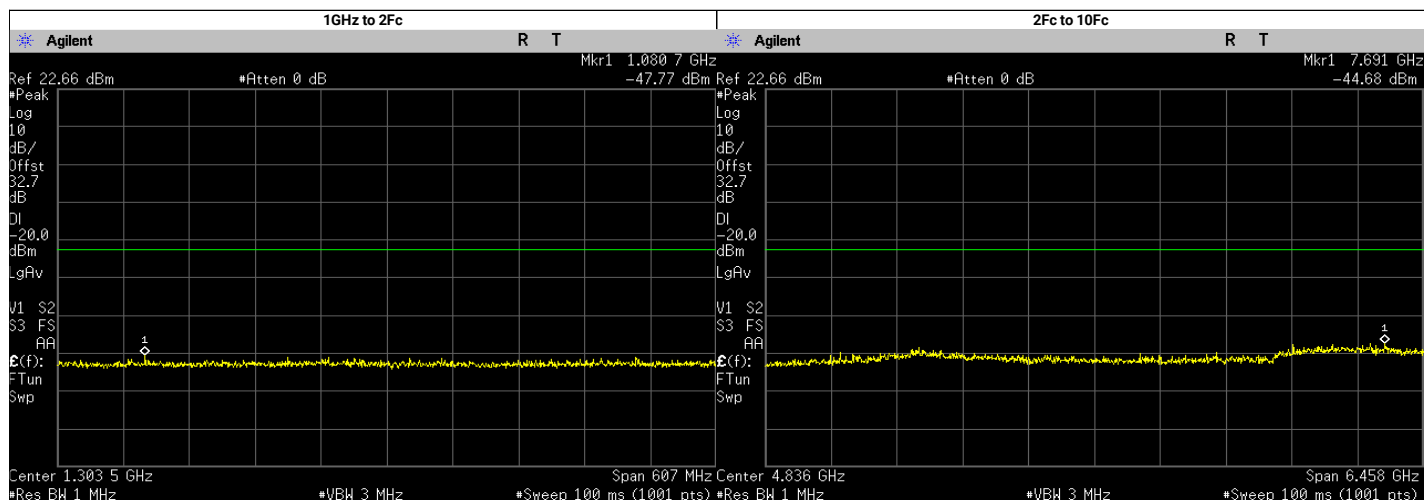
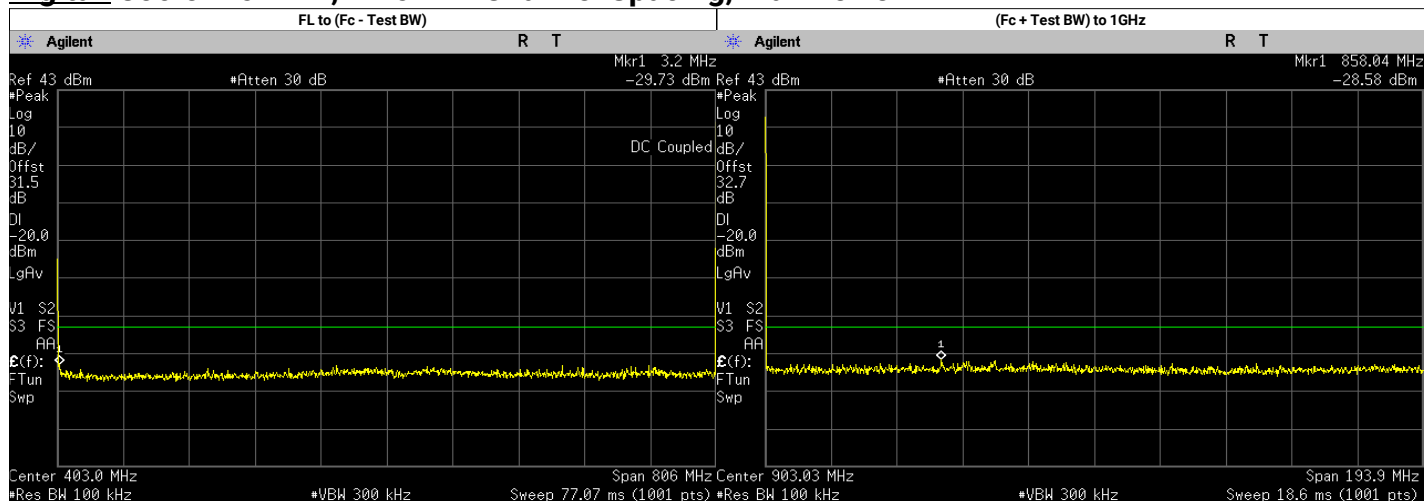
Analog: 868.8875 MHz, 25 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	463.1000	-39.2860	-13	PASS
(Fc + Test BW) to 1GHz	884.9271	-34.8100	-13	PASS
1GHz to 2Fc	1712.9900	-58.8400	-13	PASS
2Fc to 10Fc	7691.4770	-55.3300	-13	PASS
	1737.7750	-59.3842	-13	PASS
	2606.6620	-58.3562	-13	PASS
	3475.5500	-57.4529	-13	PASS
	4344.4370	-58.1032	-13	PASS
	5213.3250	-58.9540	-13	PASS
	6082.2120	-58.3436	-13	PASS
	6951.1000	-56.1506	-13	PASS
	7819.9880	-56.4954	-13	PASS
	8688.8750	-56.9315	-13	PASS

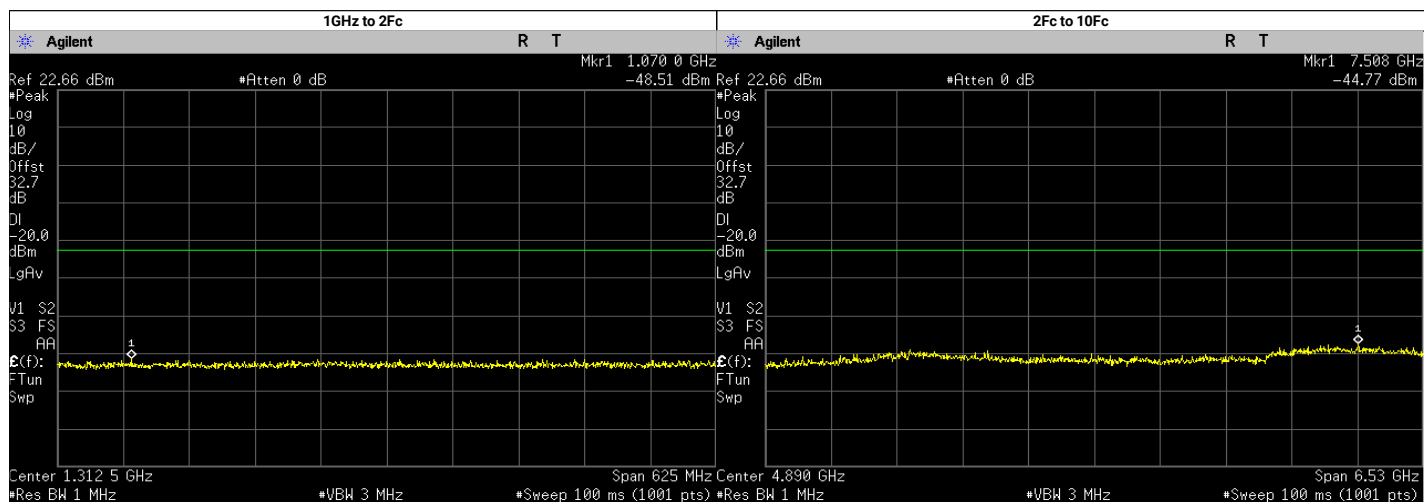
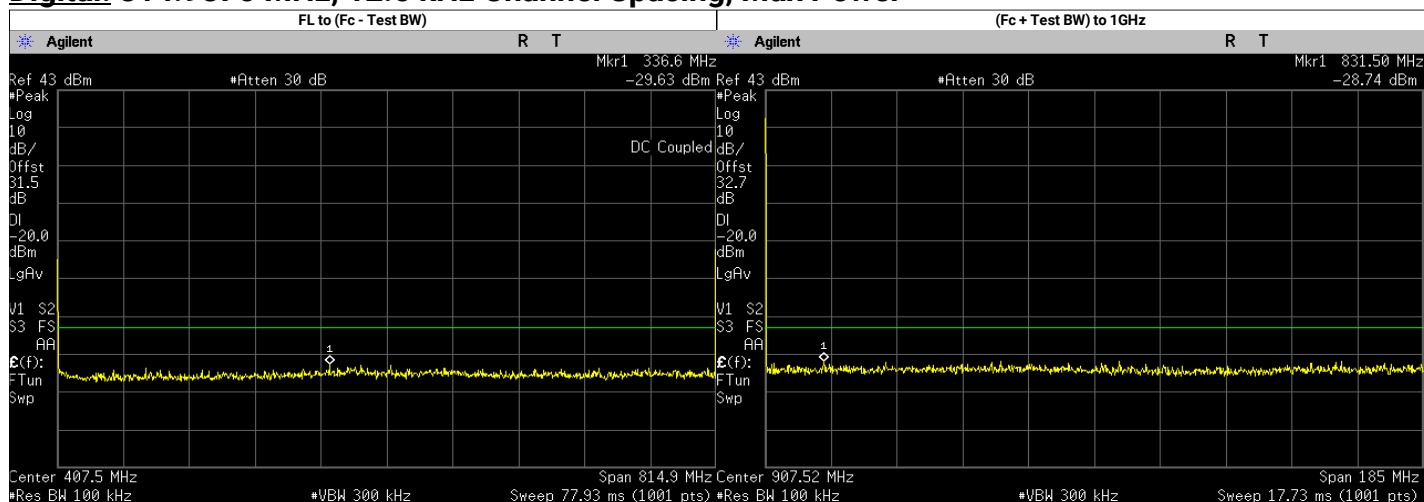
6.9.3. Test Result (Digital)

Digital: 806.0125 MHz, 12.5 kHz Channel Spacing, Max Power



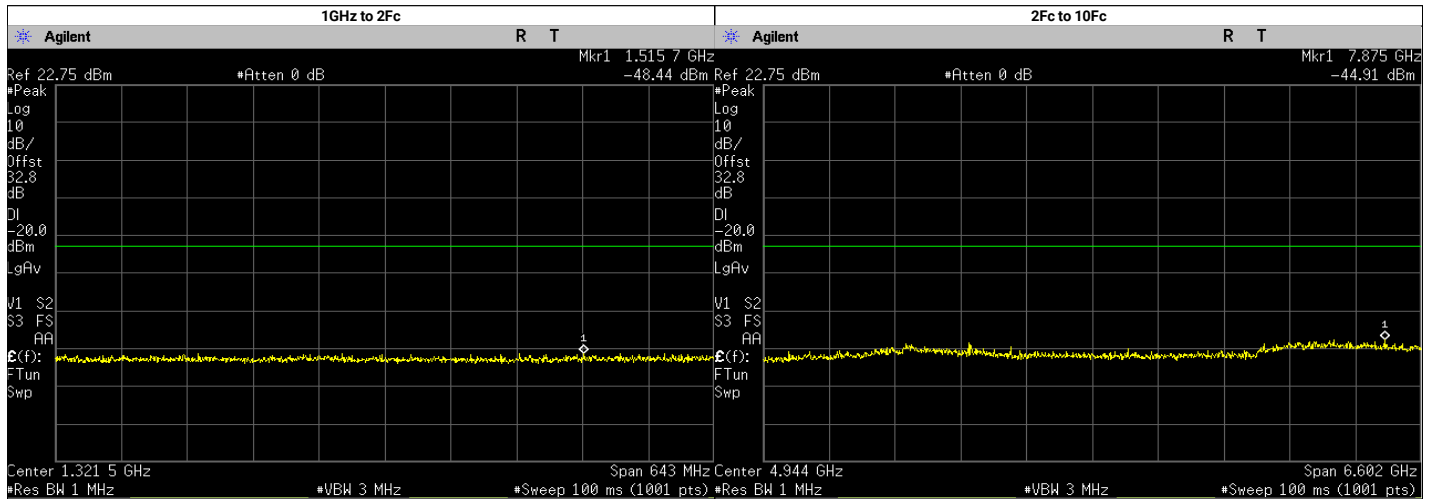
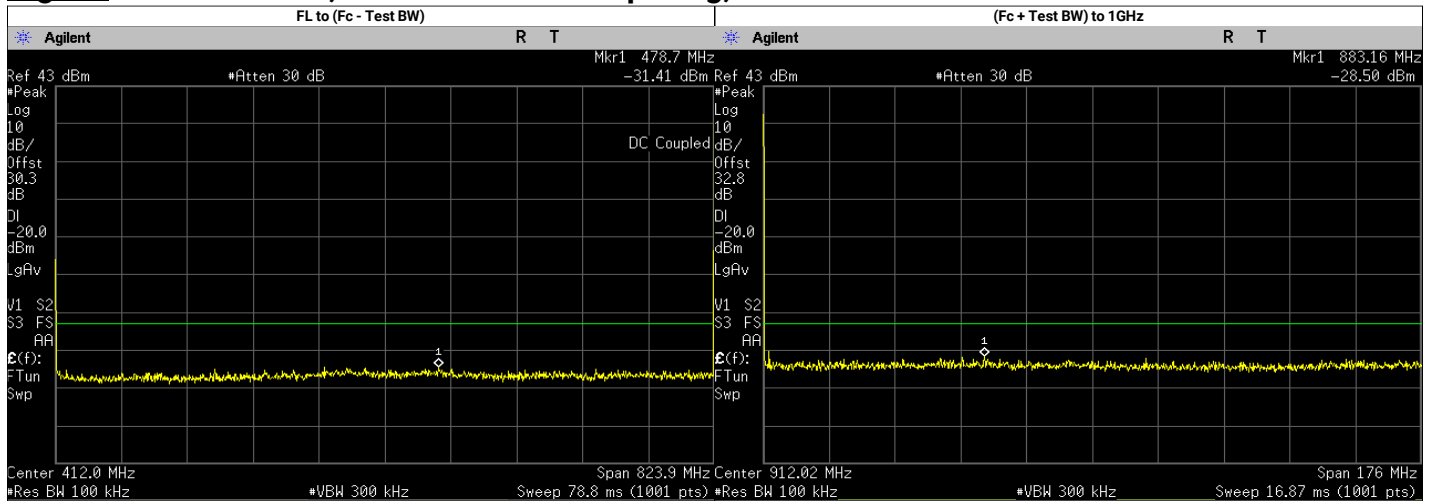
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	3.2000	-29.7280	-20	PASS
(Fc + Test BW) to 1GHz	858.0377	-28.5800	-20	PASS
1GHz to 2Fc	1080.7340	-47.7700	-20	PASS
2Fc to 10Fc	7690.5550	-44.6800	-20	PASS
	1612.0250	-50.4557	-20	PASS
	2418.0370	-49.4868	-20	PASS
	3224.0500	-47.5153	-20	PASS
	4030.0620	-48.7822	-20	PASS
	4836.0750	-49.1490	-20	PASS
	5642.0870	-49.8750	-20	PASS
	6448.1000	-49.1220	-20	PASS
	7254.1130	-46.2698	-20	PASS
	8060.1250	-46.3968	-20	PASS

Digital: 814.9875 MHz, 12.5 kHz Channel Spacing, Max Power



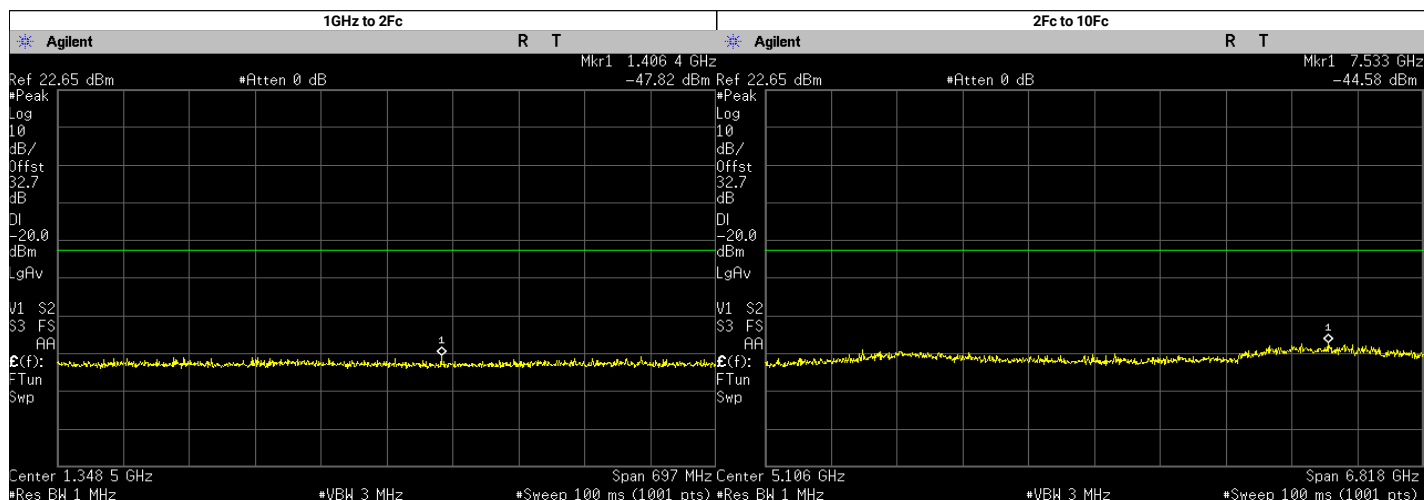
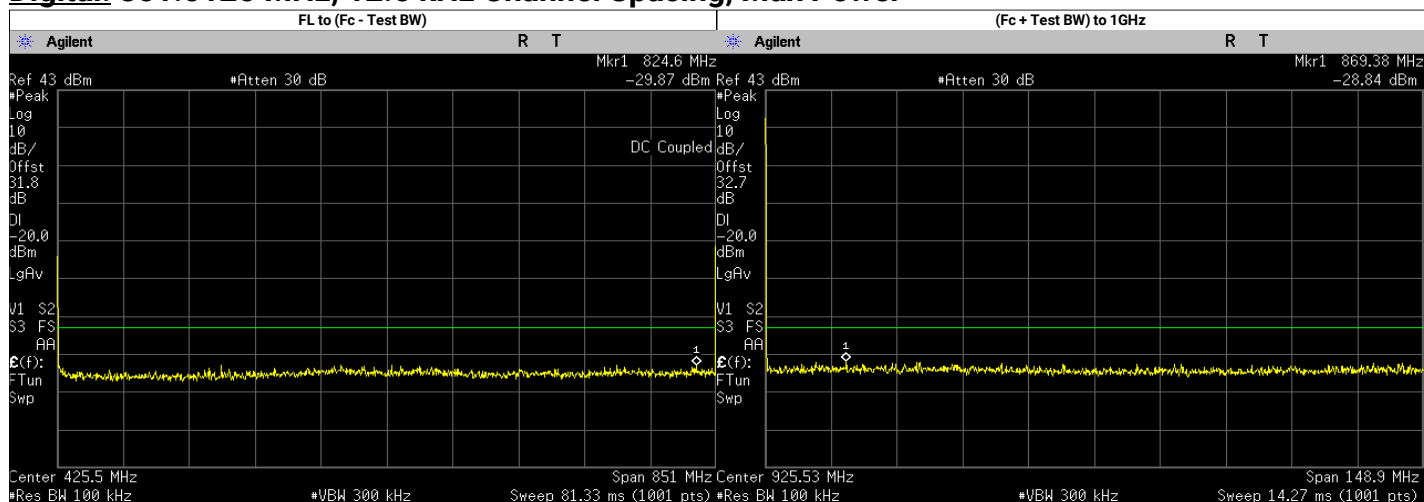
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	336.6000	-29.6330	-20	PASS
(Fc + Test BW) to 1GHz	831.4992	-28.7400	-20	PASS
1GHz to 2Fc	1069.9970	-48.5100	-20	PASS
2Fc to 10Fc	7508.4150	-44.7700	-20	PASS
	1629.9750	-50.3262	-20	PASS
	2444.9630	-48.8109	-20	PASS
	3259.9500	-47.6721	-20	PASS
	4074.9370	-49.2474	-20	PASS
	4889.9250	-49.0240	-20	PASS
	5704.9130	-49.1734	-20	PASS
	6519.9000	-49.2607	-20	PASS
	7334.8870	-46.3338	-20	PASS
	8149.8750	-47.7701	-20	PASS

Digital: 823.9875 MHz, 12.5 kHz Channel Spacing, Max Power



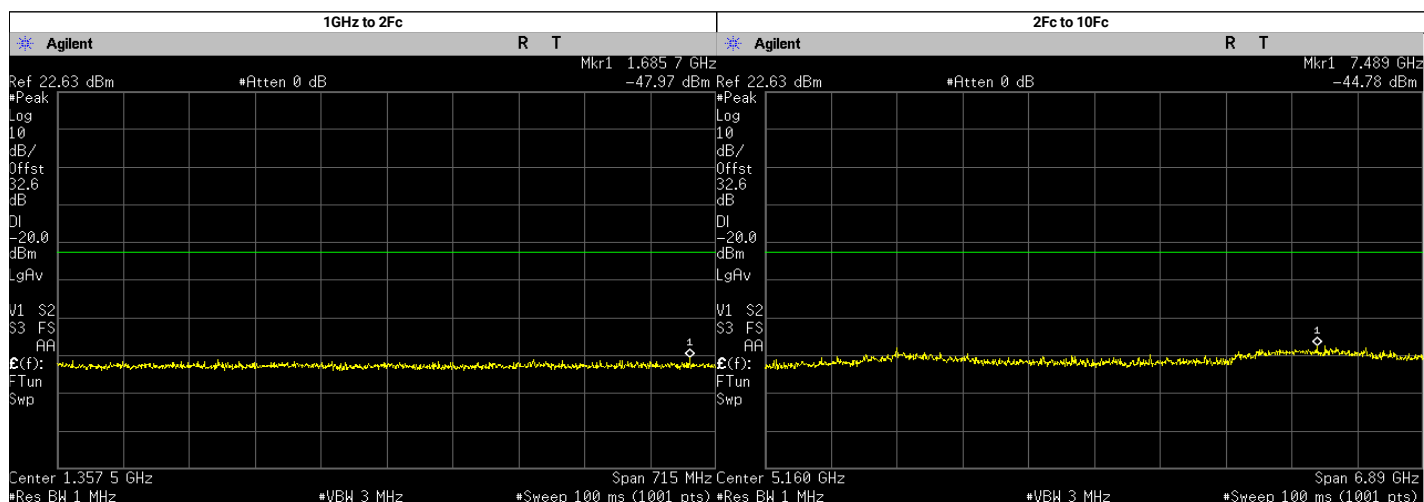
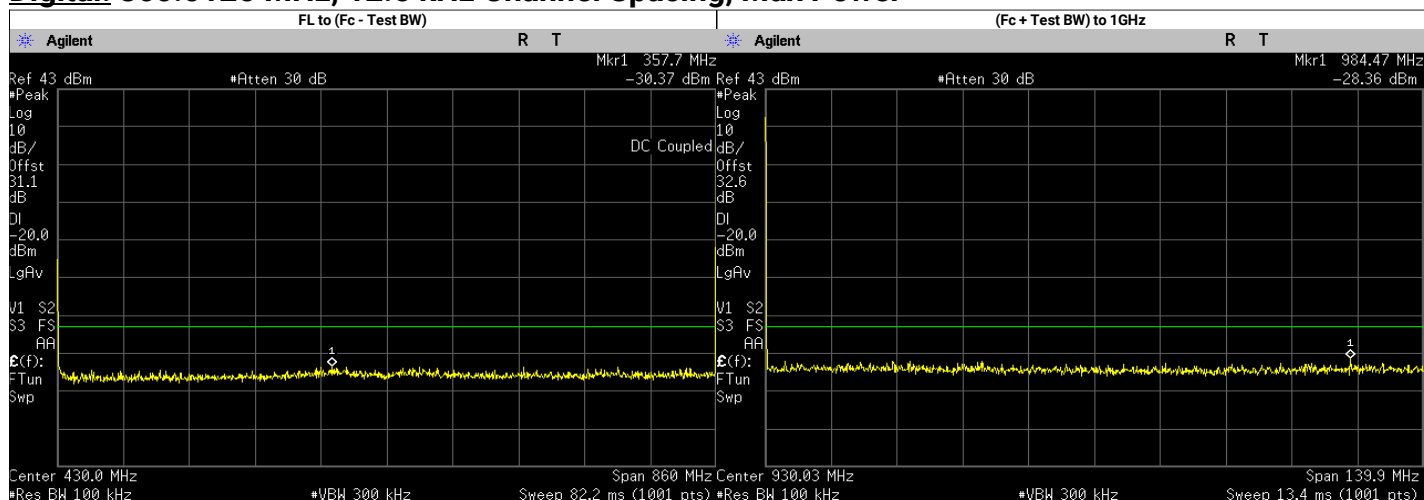
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	478.7000	-31.4080	-20	PASS
(Fc + Test BW) to 1GHz	883.1609	-28.5000	-20	PASS
1GHz to 2Fc	1515.6660	-48.4400	-20	PASS
2Fc to 10Fc	7875.1690	-44.9100	-20	PASS
	1647.9750	-50.2196	-20	PASS
	2471.9630	-48.7334	-20	PASS
	3295.9500	-47.2307	-20	PASS
	4119.9370	-48.4936	-20	PASS
	4943.9250	-48.4110	-20	PASS
	5767.9130	-49.6232	-20	PASS
	6591.9000	-48.7311	-20	PASS
	7415.8870	-46.7603	-20	PASS
	8239.8750	-47.1528	-20	PASS

Digital: 851.0125 MHz, 12.5 kHz Channel Spacing, Max Power



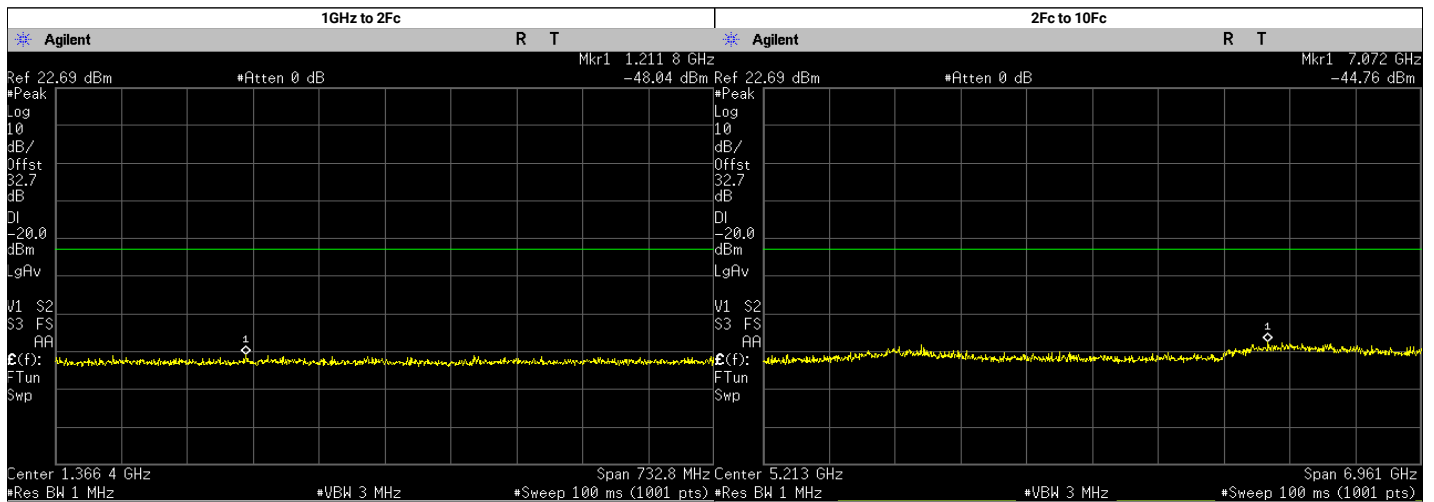
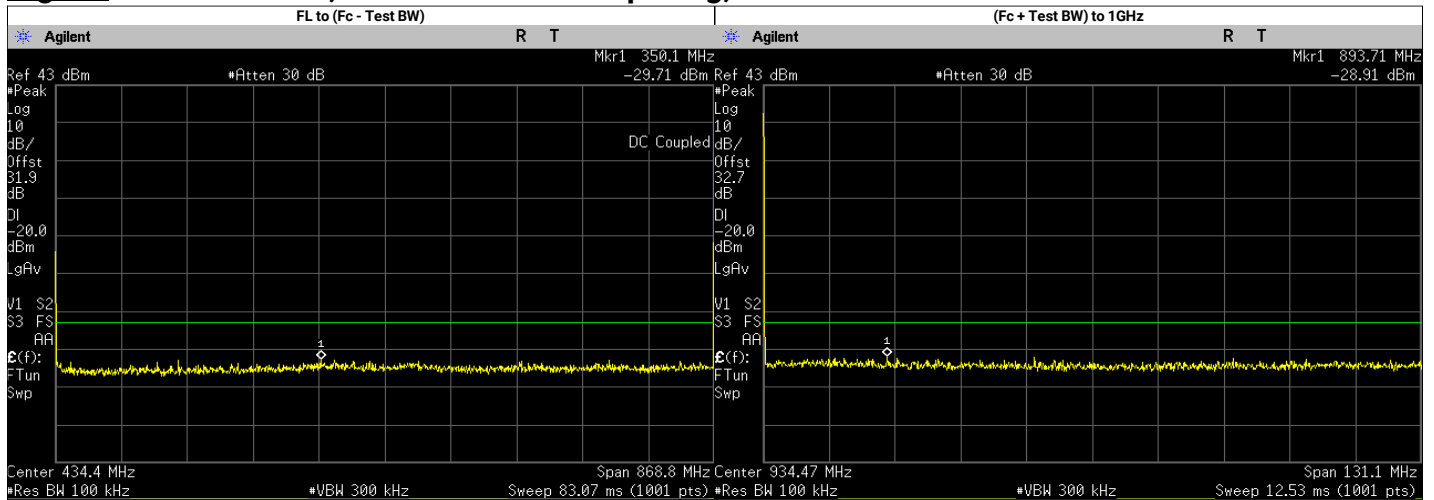
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	824.6000	-29.8730	-20	PASS
(Fc + Test BW) to 1GHz	869.3818	-28.8400	-20	PASS
1GHz to 2Fc	1406.3660	-47.8200	-20	PASS
2Fc to 10Fc	7533.3190	-44.5800	-20	PASS
	1702.0250	-49.6939	-20	PASS
	2553.0370	-49.2479	-20	PASS
	3404.0500	-48.0086	-20	PASS
	4255.0620	-48.8919	-20	PASS
	5106.0750	-49.5200	-20	PASS
	5957.0870	-49.3054	-20	PASS
	6808.1000	-47.8424	-20	PASS
	7659.1130	-46.3928	-20	PASS
	8510.1250	-47.7289	-20	PASS

Digital: 860.0125 MHz, 12.5 kHz Channel Spacing, Max Power



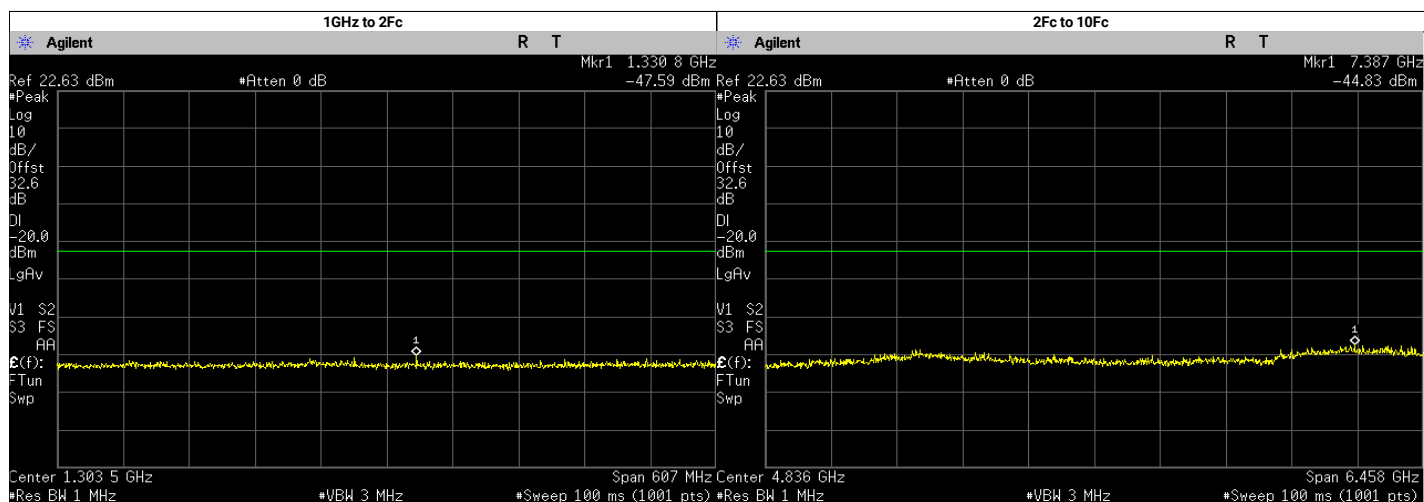
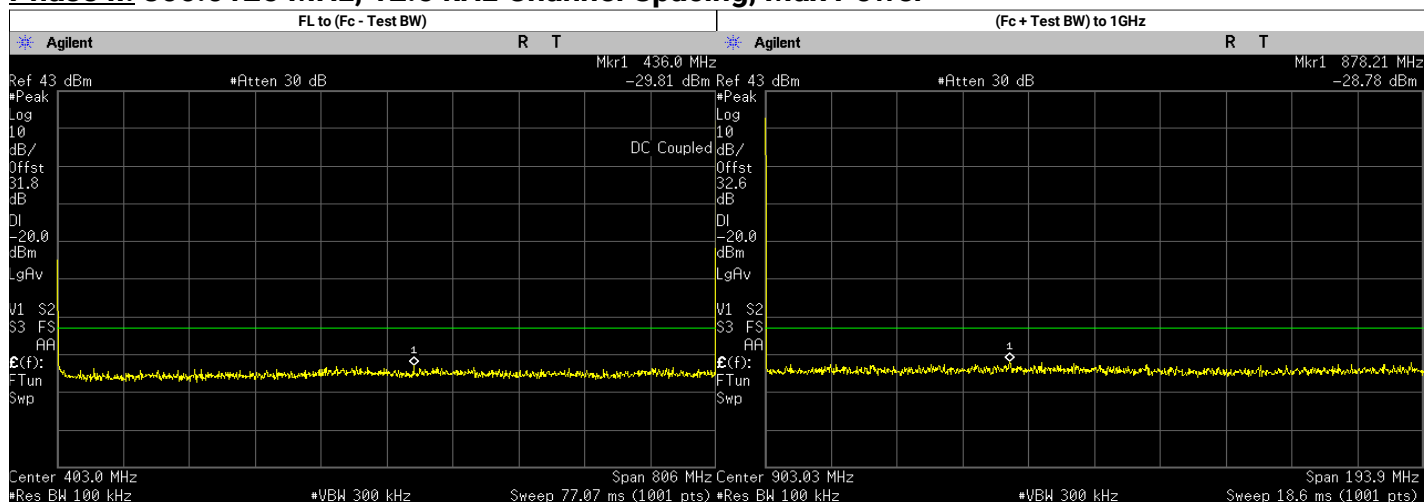
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	357.7000	-30.3670	-20	PASS
(Fc + Test BW) to 1GHz	984.4669	-28.3600	-20	PASS
1GHz to 2Fc	1685.7090	-47.9700	-20	PASS
2Fc to 10Fc	7488.9290	-44.7800	-20	PASS
	1720.0250	-49.8979	-20	PASS
	2580.0370	-49.2412	-20	PASS
	3440.0500	-47.1088	-20	PASS
	4300.0620	-49.6979	-20	PASS
	5160.0750	-49.1830	-20	PASS
	6020.0870	-49.2911	-20	PASS
	6880.1000	-47.0064	-20	PASS
	7740.1130	-46.7874	-20	PASS
	8600.1250	-48.3134	-20	PASS

Digital: 868.8875 MHz, 12.5 kHz Channel Spacing, Max Power



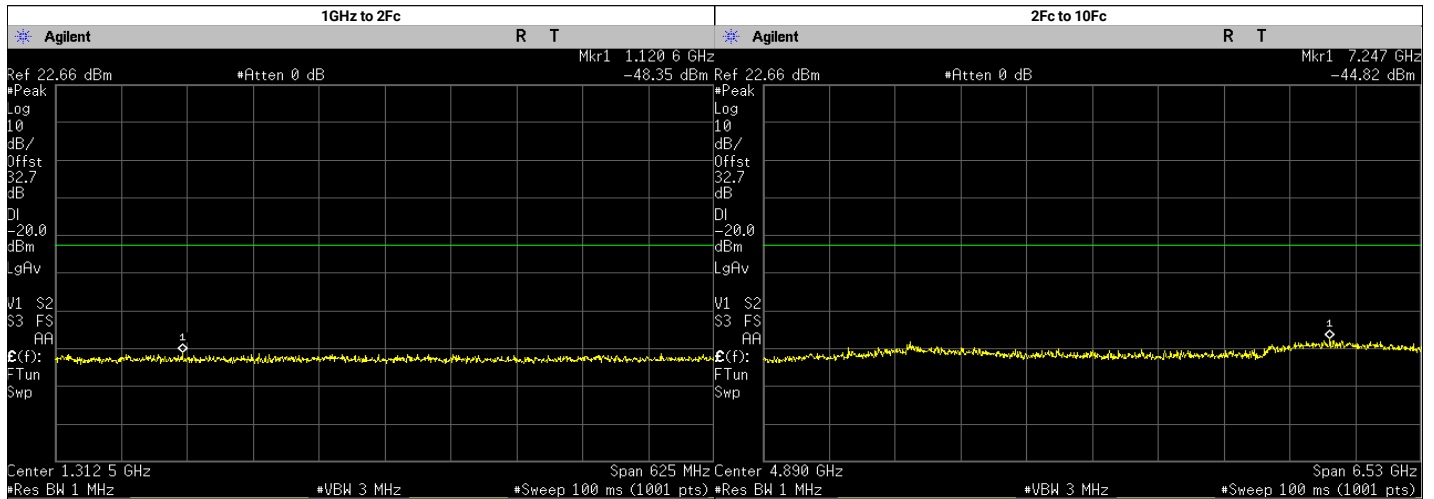
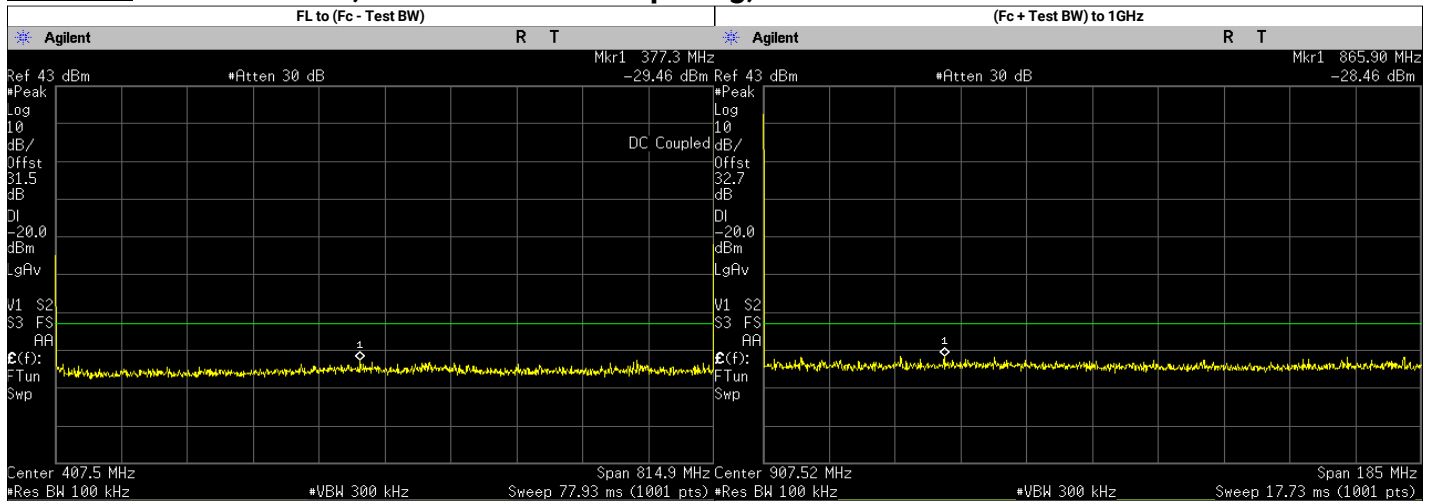
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	350.1000	-29.7130	-20	PASS
(Fc + Test BW) to 1GHz	893.7083	-28.9100	-20	PASS
1GHz to 2Fc	1211.7720	-48.0400	-20	PASS
2Fc to 10Fc	7071.9390	-44.7600	-20	PASS
	1737.7750	-49.7383	-20	PASS
	2606.6620	-48.7300	-20	PASS
	3475.5500	-47.9961	-20	PASS
	4344.4370	-49.7666	-20	PASS
	5213.3250	-49.1920	-20	PASS
	6082.2120	-49.0291	-20	PASS
	6951.1000	-46.4129	-20	PASS
	7819.9880	-47.1507	-20	PASS
	8688.8750	-47.3795	-20	PASS

Phase II: 806.0125 MHz, 12.5 kHz Channel Spacing, Max Power



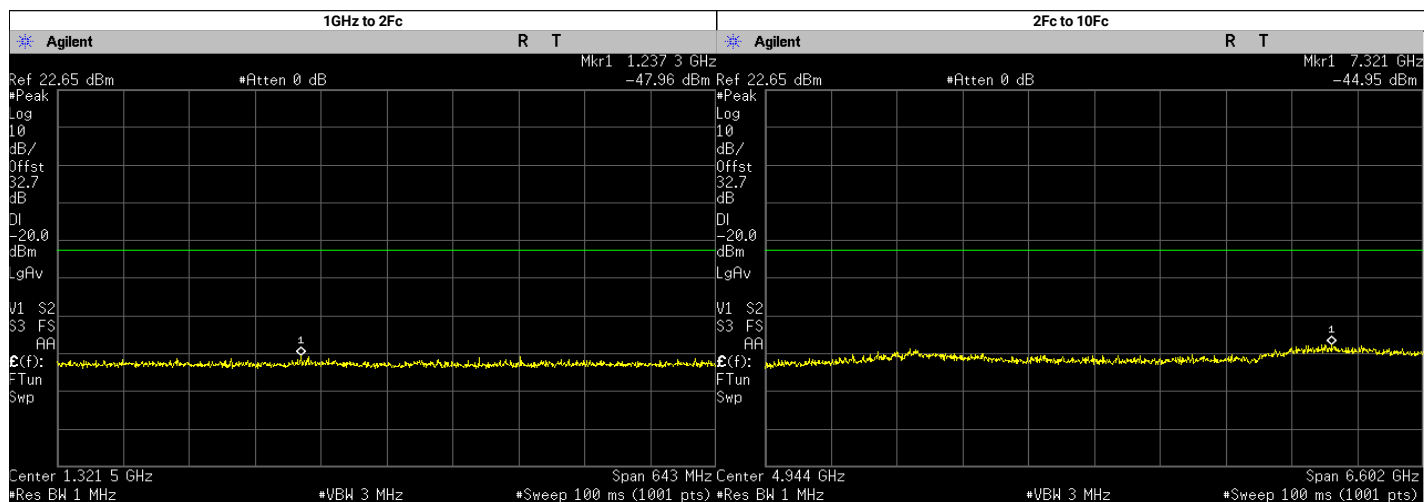
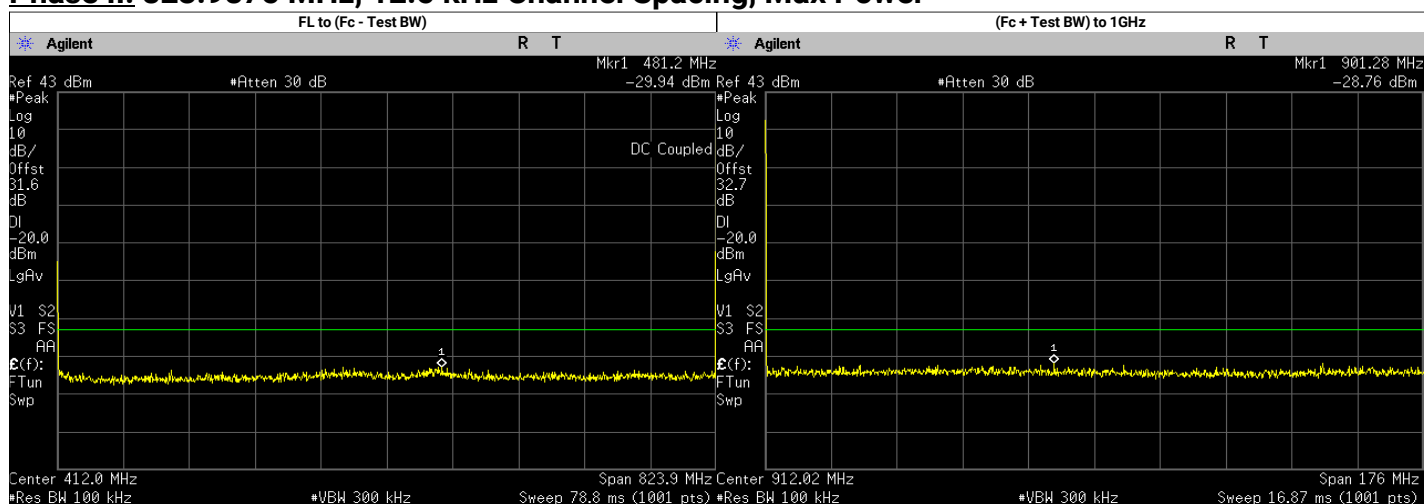
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	436.0000	-29.8060	-20	PASS
(Fc + Test BW) to 1GHz	878.2073	-28.7800	-20	PASS
1GHz to 2Fc	1330.8290	-47.5900	-20	PASS
2Fc to 10Fc	7387.0250	-44.8300	-20	PASS
	1612.0250	-50.1310	-20	PASS
	2418.0370	-49.0370	-20	PASS
	3224.0500	-47.6682	-20	PASS
	4030.0620	-49.2440	-20	PASS
	4836.0750	-48.9070	-20	PASS
	5642.0870	-49.2716	-20	PASS
	6448.1000	-49.0218	-20	PASS
	7254.1130	-45.6721	-20	PASS
	8060.1250	-47.5405	-20	PASS

Phase II: 814.9875 MHz, 12.5 kHz Channel Spacing, Max Power



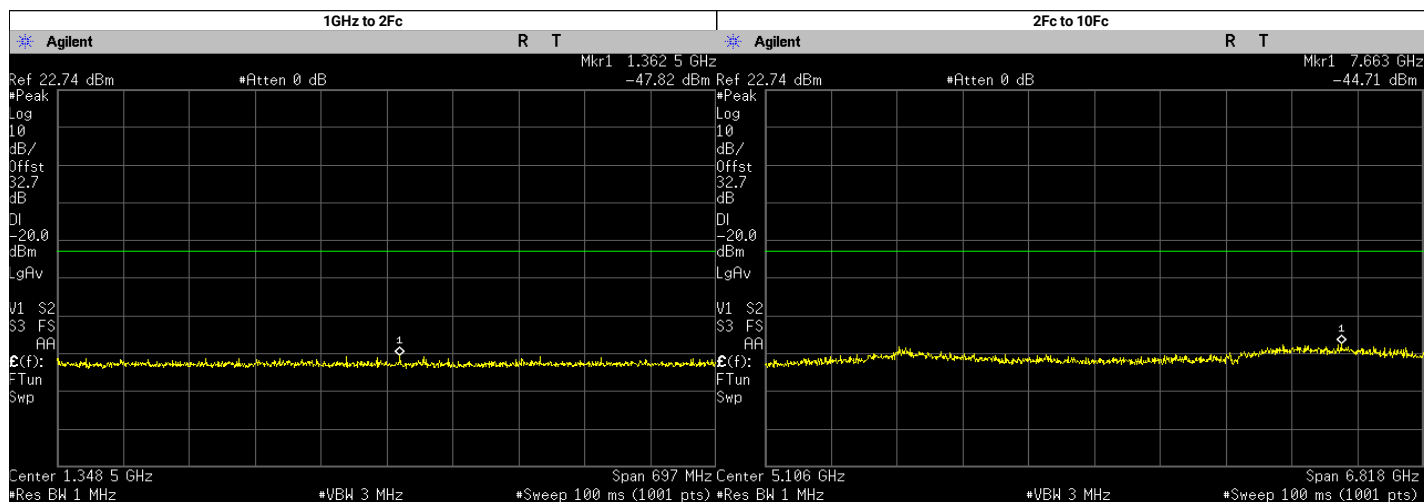
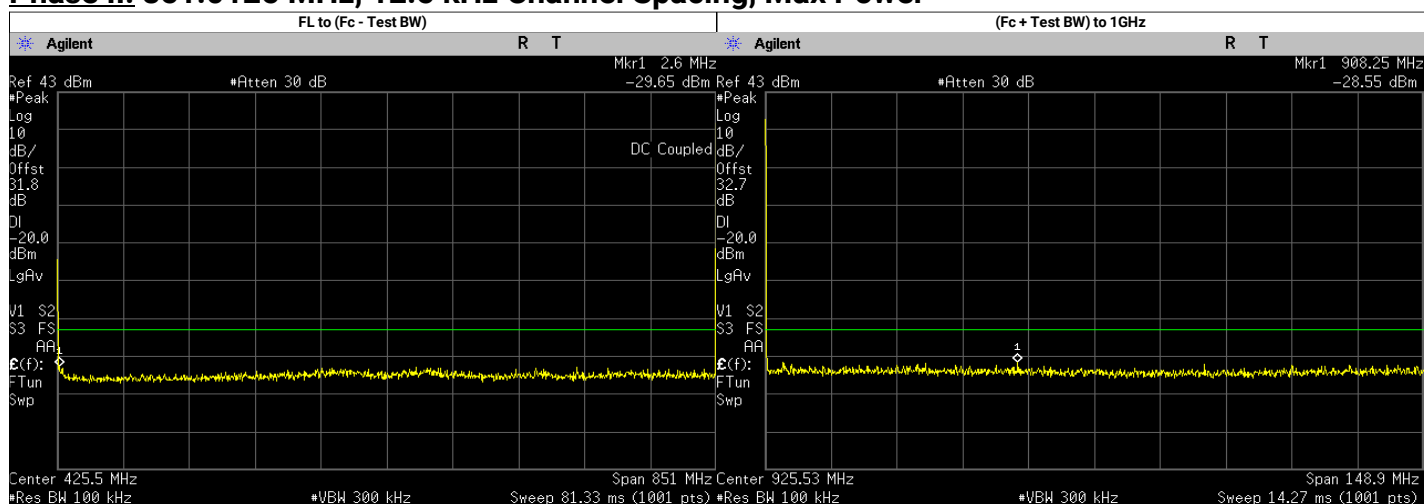
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	377.3000	-29.4610	-20	PASS
(Fc + Test BW) to 1GHz	865.9022	-28.4600	-20	PASS
1GHz to 2Fc	1120.6200	-48.3500	-20	PASS
2Fc to 10Fc	7247.2190	-44.8200	-20	PASS
	1629.9750	-49.8539	-20	PASS
	2444.9630	-49.7398	-20	PASS
	3259.9500	-47.7814	-20	PASS
	4074.9370	-49.7056	-20	PASS
	4889.9250	-49.2190	-20	PASS
	5704.9130	-49.0004	-20	PASS
	6519.9000	-48.8702	-20	PASS
	7334.8870	-46.0266	-20	PASS
	8149.8750	-47.5439	-20	PASS

Phase II: 823.9875 MHz, 12.5 kHz Channel Spacing, Max Power



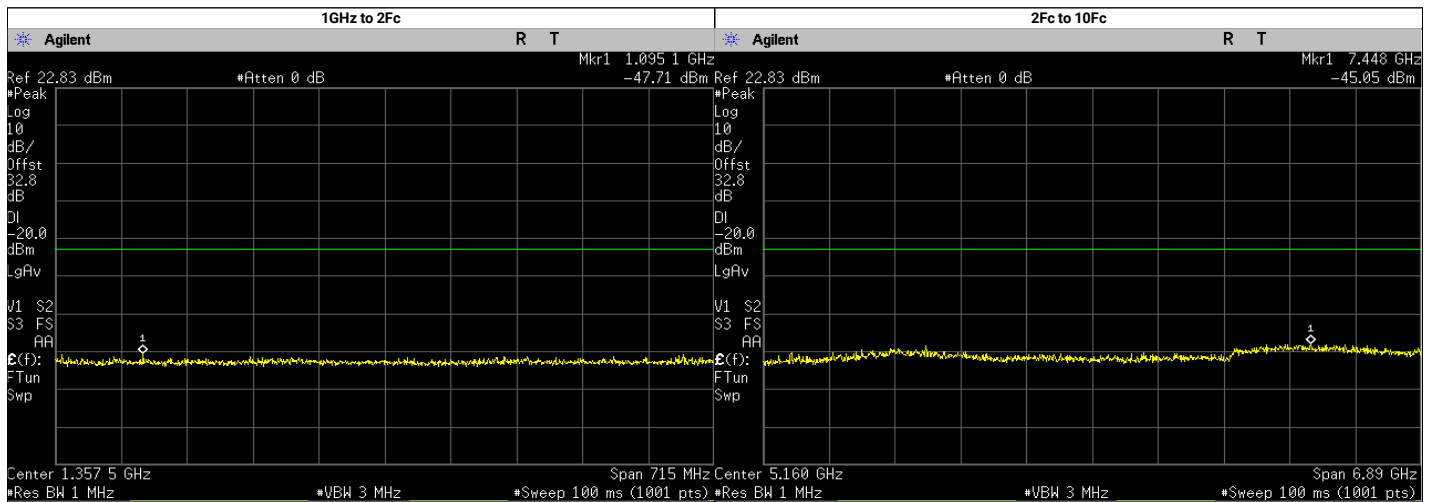
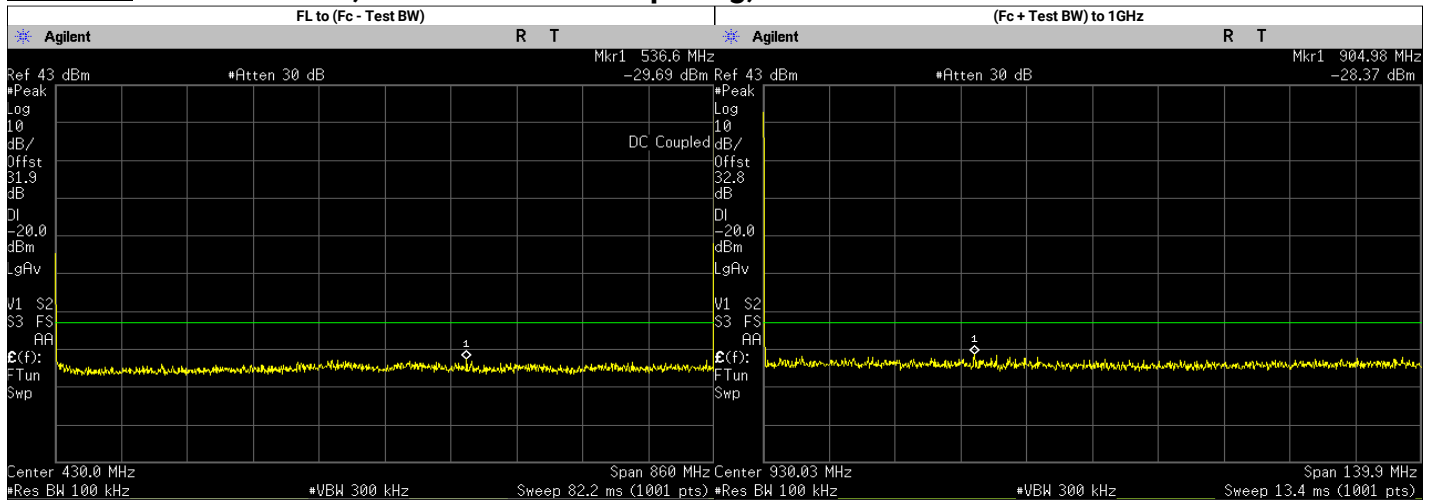
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	481.2000	-29.9440	-20	PASS
(Fc + Test BW) to 1GHz	901.2850	-28.7600	-20	PASS
1GHz to 2Fc	1237.2580	-47.9600	-20	PASS
2Fc to 10Fc	7320.6090	-44.9500	-20	PASS
	1647.9750	-50.0208	-20	PASS
	2471.9630	-49.6904	-20	PASS
	3295.9500	-47.7243	-20	PASS
	4119.9370	-48.0972	-20	PASS
	4943.9250	-48.6340	-20	PASS
	5767.9130	-49.4043	-20	PASS
	6591.9000	-48.7547	-20	PASS
	7415.8870	-46.3665	-20	PASS
	8239.8750	-47.3099	-20	PASS

Phase II: 851.0125 MHz, 12.5 kHz Channel Spacing, Max Power



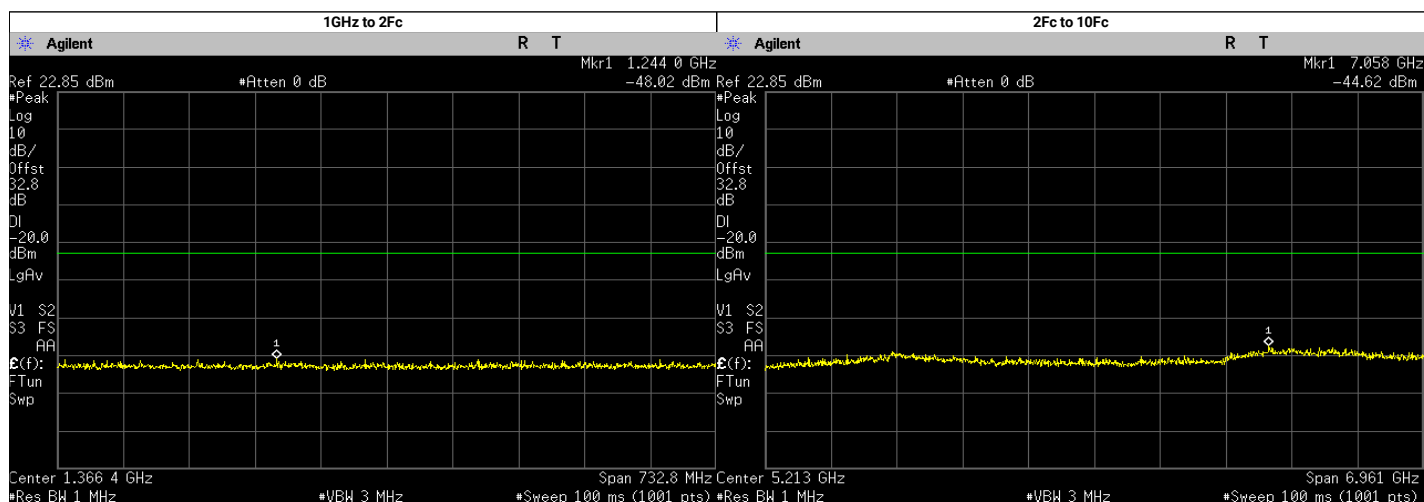
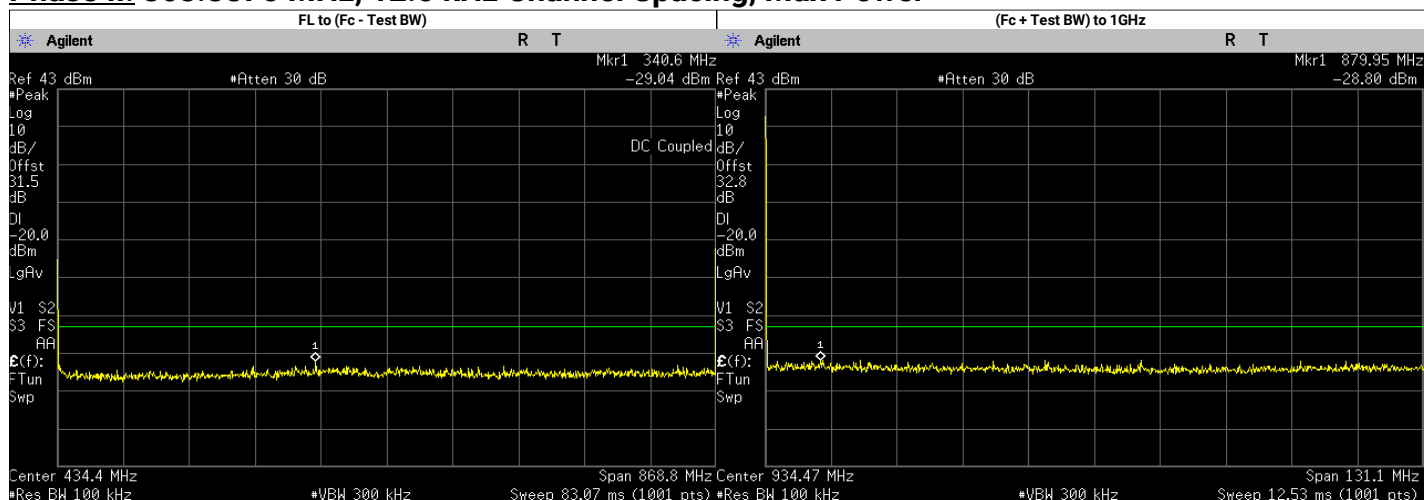
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.6000	-29.6500	-20	PASS
(Fc + Test BW) to 1GHz	908.2545	-28.5500	-20	PASS
1GHz to 2Fc	1362.4530	-47.8200	-20	PASS
2Fc to 10Fc	7662.8630	-44.7100	-20	PASS
	1702.0250	-49.8430	-20	PASS
	2553.0370	-49.2904	-20	PASS
	3404.0500	-47.9566	-20	PASS
	4255.0620	-49.9688	-20	PASS
	5106.0750	-49.8280	-20	PASS
	5957.0870	-47.9757	-20	PASS
	6808.1000	-47.9434	-20	PASS
	7659.1130	-45.5865	-20	PASS
	8510.1250	-47.9650	-20	PASS

Phase II: 860.0125 MHz, 12.5 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	536.6000	-29.6920	-20	PASS
(Fc + Test BW) to 1GHz	904.9824	-28.3700	-20	PASS
1GHz to 2Fc	1095.0980	-47.7100	-20	PASS
2Fc to 10Fc	7447.5880	-45.0500	-20	PASS
	1720.0250	-50.0208	-20	PASS
	2580.0370	-48.4919	-20	PASS
	3440.0500	-48.1260	-20	PASS
	4300.0620	-48.8302	-20	PASS
	5160.0750	-49.0080	-20	PASS
	6020.0870	-47.8597	-20	PASS
	6880.1000	-47.0194	-20	PASS
	7740.1130	-46.3799	-20	PASS
	8600.1250	-47.9963	-20	PASS

Phase II: 868.8875 MHz, 12.5 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	340.6000	-29.0410	-20	PASS
(Fc + Test BW) to 1GHz	879.9467	-28.8000	-20	PASS
1GHz to 2Fc	1244.0140	-48.0200	-20	PASS
2Fc to 10Fc	7058.0160	-44.6200	-20	PASS
	1737.7750	-50.1140	-20	PASS
	2606.6620	-48.2343	-20	PASS
	3475.5500	-47.6123	-20	PASS
	4344.4370	-48.8462	-20	PASS
	5213.3250	-49.3920	-20	PASS
	6082.2120	-49.4957	-20	PASS
	6951.1000	-46.0592	-20	PASS
	7819.9880	-47.1174	-20	PASS
	8688.8750	-47.0178	-20	PASS

6.9.4. Test Limit

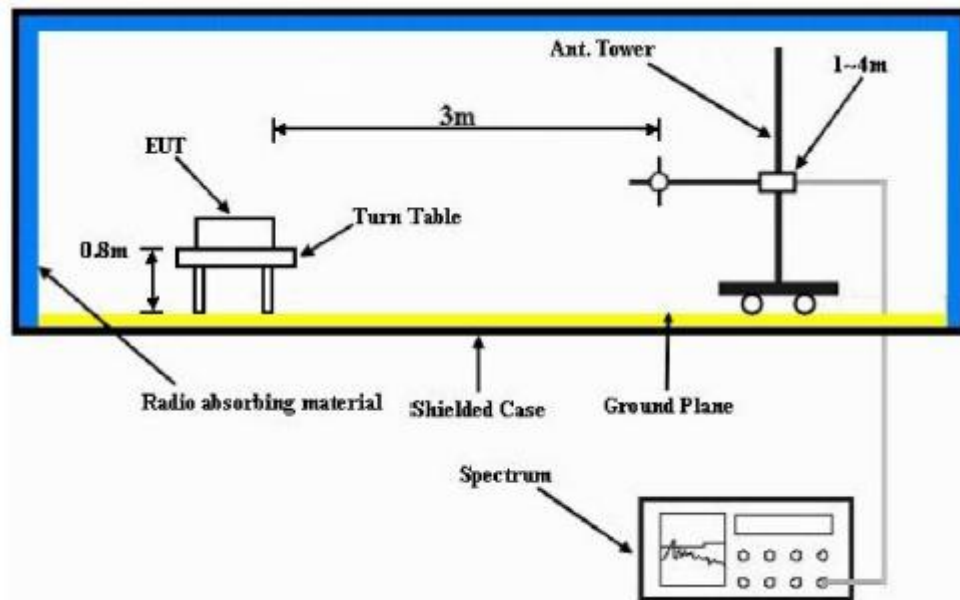
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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)

Not Applicable

6.10.3. Test Result (Digital)

SAC TX Radiated Emission : 0875P02-EMC-00001

FCC ID :	AZ489FT7184	IC :	109U-89FT7184
Model No :	H55TGT9PW8BN	Serial No :	437ZCC3311
Battery :	PMNN4895A	Charger :	-
Accessory :	-		
Test Mode :	LMR Digital - C4FM	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	860.0125	Power :	3.60 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1720.0250	-63.24 **	-20.00	43.24
Horizontal	Peak	1720.0250	-62.58 **	-20.00	42.58
Vertical	Peak	2580.0380	-58.28 **	-20.00	38.28
Horizontal	Peak	2580.0380	-57.29 **	-20.00	37.29
Vertical	Peak	3440.0500	-56.28 **	-20.00	36.28
Horizontal	Peak	3440.0500	-56.11 **	-20.00	36.11
Vertical	Peak	4300.0630	-52.51 **	-20.00	32.51
Horizontal	Peak	4300.0630	-52.03 **	-20.00	32.03
Vertical	Peak	5160.0750	-51.40 **	-20.00	31.40
Horizontal	Peak	5160.0750	-51.00 **	-20.00	31.00
Vertical	Peak	6020.0870	-49.30 **	-20.00	29.30
Horizontal	Peak	6020.0870	-49.59 **	-20.00	29.59
Vertical	Peak	6880.1000	-47.43 **	-20.00	27.43
Horizontal	Peak	6880.1000	-47.17 **	-20.00	27.17
Vertical	Peak	7740.1120	-44.98 **	-20.00	24.98
Horizontal	Peak	7740.1120	-44.94 **	-20.00	24.94
Vertical	Peak	8600.1250	-43.88 **	-20.00	23.88
Horizontal	Peak	8600.1250	-45.23 **	-20.00	25.23

Temperature (°C) : 23.6
Test Performed by : Rezza & Fuad
System MU : 4.03 dB

Humidity (%) : 68.9
Test Date : Fri, 10 Apr, 2026

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 Standard.

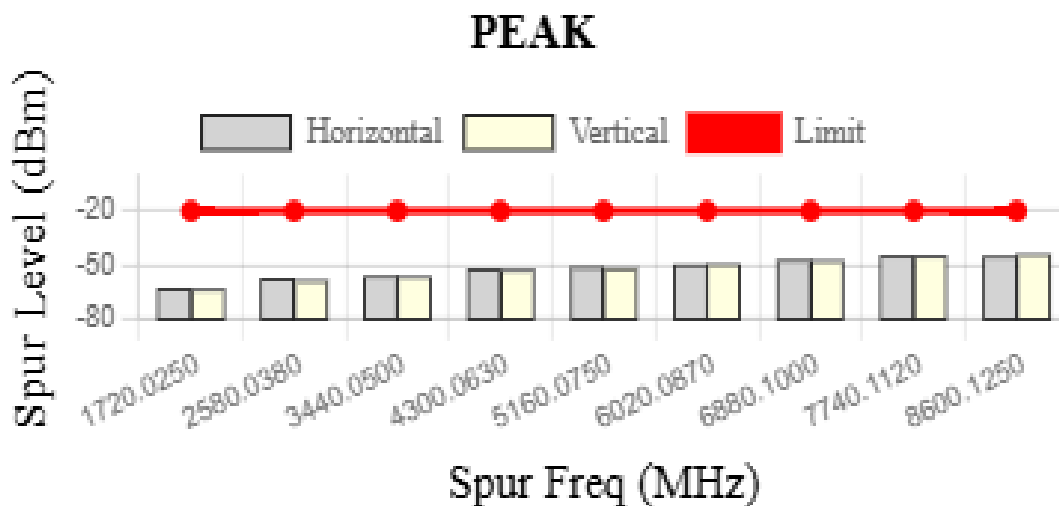
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



6.10.4. Test Limit

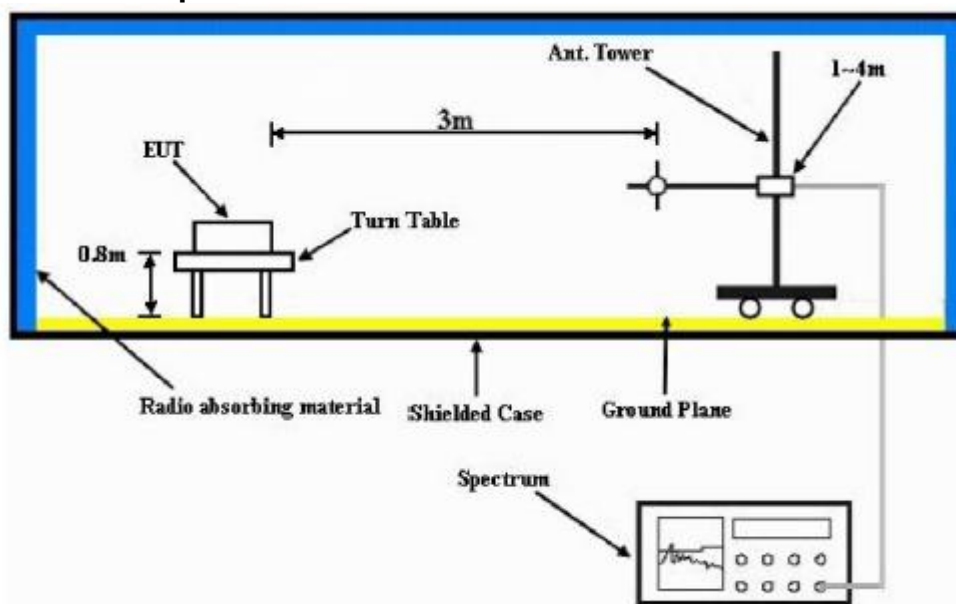
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz		Not Applicable		43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz	Not Applicable	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(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

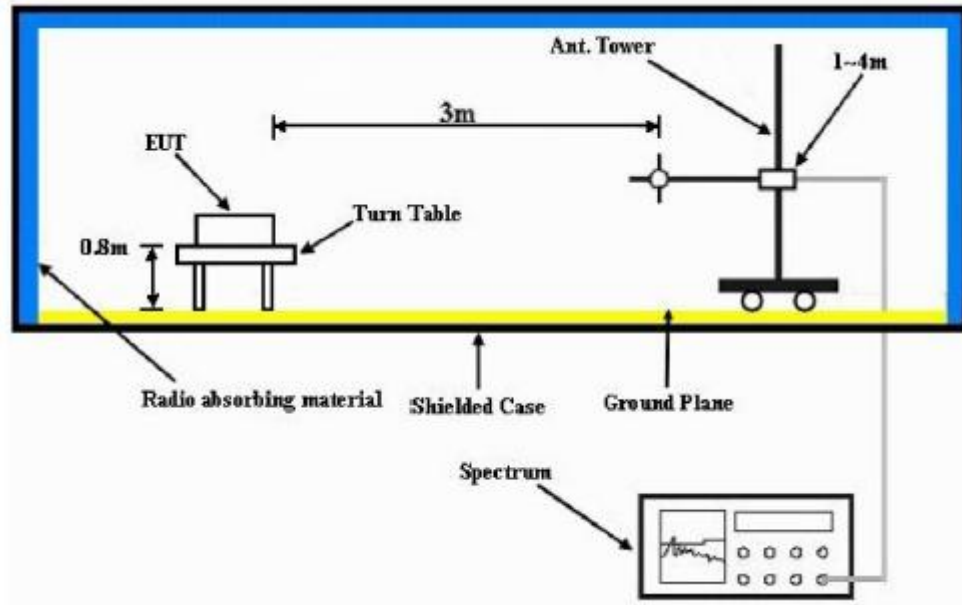
FCC CFR 47 Part90.541 The transmitting power and antenna height of base, mobile, portable and control stations operating in the 769-775 MHz and 799-805 MHz frequency bands must not exceed the maximum limits in this section. Power limits are listed in effective radiated power (ERP).

- i. The transmitting power and antenna height of base stations must not exceed the limits given in paragraph (a) of § 90.635.
- ii. The transmitting power of a control station must not exceed 200 watts ERP.
- iii. The transmitting power of a mobile unit must not exceed 100 watts ERP.
- iv. The transmitting power of a portable (hand-held) unit must not exceed 3 watts ERP.
- v. Transmitters operating on the narrowband low power channels listed in § 90.531(b)(3) and (4), must not exceed 2 watts ERP.

FCC CFR 47 Part80.215 the transmitter power based on carrier power of 4 watts with transmitter connected to a dummy load of matching impedance. The effective radiated power must not exceed 2 watts.

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 ~