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<table><tr><td>Date/s Tested</td><td>: 30-APRIL-2026 - 10-MAY-2026</td></tr><tr><td>Report Issue Date</td><td>: 15-JUNE-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 Malaysia Sdn Bhd</td></tr><tr><td>Manufacturer Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: CHUAH YIH JIAN</td></tr><tr><td>Product Type</td><td>: Mobile</td></tr><tr><td>Product Version (PMN)</td><td>: MR7r</td></tr><tr><td>Model Number (HVIN)</td><td>: AAM29QPN9YA1AN</td></tr><tr><td>Frequency Band</td><td>: 400-470MHz</td></tr><tr><td>Max RF Output Power</td><td>: 48 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>: D02.26.02.0175</td></tr></table> The equipment was tested accordance to the requirement listed below: (LMR) FCC 47 CFR Part 2 / 22 / 74 / 90 ISED RSS-Gen (Issue 5), Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) ISED RSS-119 Issue 12, Amendment 1 (April 1, 2022), Amendment 2 (July 28, 2025) PASS		Date/s Tested	: 30-APRIL-2026 - 10-MAY-2026	Report Issue Date	: 15-JUNE-2026	Test Site Location	: Motorola Penang Advanced Communication Laboratory (ACL)	Manufacturer	: Motorola Solutions Malaysia Sdn Bhd	Manufacturer Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: CHUAH YIH JIAN	Product Type	: Mobile	Product Version (PMN)	: MR7r	Model Number (HVIN)	: AAM29QPN9YA1AN	Frequency Band	: 400-470MHz	Max RF Output Power	: 48 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)	: D02.26.02.0175
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Prepared By:  Farah Nur Arina 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	15-June-26	Farah
Rev. B	Revised worst case configuration for clause 6.10.3 radiated spurious emission	6-July-26	Farah
Rev. C	Change the voltage to 13.6V in clause 6.1.2	4-Aug-2026	Farah
Rev. D	Remove Model Number	13-Aug-2026	Farah

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	Analog, 4FSK

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
POWER CORD, US	MOTOROLA	3087791G01
GENESEE COLOR DISPLAY CONTROL HEAD	MOTOROLA	PMLN8805A
LTD DESKTOP MOBILE MIC	MOTOROLA	RMN5050A
DESKTOP TRAY WITH SPEAKER	MOTOROLA	RSN4005A
POWER SUPPLY ADAPTOR, EXT 280W POWER SUPPLY, 100-240VAC, SAE	MOTOROLA	PS000280A02
MOBILE ANTENNA GNSS L1 & L5 MAGNET MOUNT	MOTOROLA	PMAN4013A
POWER SUPPLY ADAPTOR,EXT 255W POWER SUPPLY, L6,100 - 240VAC,SAE	MOTOROLA	PS000673A01
MOTOTRBO REAR ACCESSORY CONNECTOR KIT	MOTOROLA	PMLN5072A

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), 22.565(f), 74.461	RSS-119	RF Power Output	Pass		008TCF1810
2.1055, 22.355, 74.464	RSS-119	Frequency Stability	Pass		008TCF1820
2.1047	-	Audio Frequency Response	Pass		008TCF1810
2.1047	-	Audio Low Pass Filter Response	Pass		008TCF1810
2.1047, 74.463	-	Modulation limiting	Pass		008TCF1810
2.1049, 22.359, 90.21, 74.462	RSS-119	Occupied Bandwidth	Pass	16K0F3E: 14.9957 kHz 11K0F3E: 9.8602 kHz 7K60F1D/FXD: 7.3711kHz 7K60F1E/FXE: 7.4992 kHz 7K60F1W: 7.2381 kHz	008TCF1810
2.1051, 22.359 (a), (b)	-	Band Edge Conducted Spurious Emission	Pass		008TCF1810
90.214	RSS-119	Transient Frequency Behavior	Pass		008TCF1810
90.543(a), (b)	RSS-119	Adjacent Channel Power	NA		
2.1051, 22.359, 90.210 74.462(c)	RSS-119	Conducted Spurious Emissions	Pass	Worst case: -39.87 dBm	008TCF1810
2.1051, 22.359, 74.462(c)	RSS-119	Radiated Spurious Emission	Pass	Worst case: -35.18 dBm (margin: 22.18 dB)	008TCF1832
-	-	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 Analog ATE#1: (SW version: FCC_Analog_v2.5.0)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92009188	26-Feb-26	26-Feb-27
AUDIO ANALYZER	U8903B	MY61070006	19-Jun-25	19-Jun-26
CXA SIGNAL ANALYZER	N9000B	MY60250471	19-Sep-25	19-Sep-26
POWER SENSOR	E4412A	MY50260020	25-Nov-25	25-Nov-26
POWER SUPPLY	6031A	3018A01914	23-Feb-26	23-Feb-27
POWER METER	E4416A	MY50000116	26-Aug-25	26-Aug-26
N to N RF Cable # 1	M17/128-RG400	NA	NA	NA
BNC to N RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 2	RG 58	NA	NA	NA
BNC to BNC RF Cable # 3	RG 58	NA	NA	NA
BNC to BNC RF Cable # 4	RG 58	NA	NA	NA
BNC to BNC RF Cable # 5	RG 58	NA	NA	NA
BNC to BNC RF Cable # 6	RG 58	NA	NA	NA
BNC to BNC RF Cable # 7	RG 58	NA	NA	NA
N to SMA RF Cable # 1	RG 58	NA	NA	NA
N to SMA RF Cable # 2	RG 58	NA	NA	NA
N to SMA RF Cable # 3	RG 58	NA	NA	NA
Aeroflex Attenuator 30dB	49-30-34-LIM	NA	NA	NA

FCC Transient ATE #1: (SW version: FCC Transient ATE_R1.2.3)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A36210	Not Required	Not Required
ATTENUATOR / SWITCH DRIVER	11713A	3748A09090	Not Required	Not Required
POWER SENSOR	E9301B	MY41495629	18-Jun-25	18-Jun-26
STEP ATTENUATOR	8494G	MY42145194	18-Jun-25	18-Jun-26
STEP ATTENUATOR	8496G	MY42140158	12-Sep-25	12-Sep-26
POWER SUPPLY	6033A	3004A05137	12-Aug-25	12-Aug-26
AUDIO ANALYZER	8903B	3729A17409	25-Jul-25	25-Jul-26
SPECTRUM ANALYZER	E4445A	MY46181262	21-May-25	21-May-26
CXA SIGNAL ANALYZER	N9000B	MY63210311	12-Dec-25	12-Dec-26
MODULATION ANALYZER	8901B	2920A02173	17-Nov-25	17-Nov-26
POWER METER	E4416A	GB41293747	10-Nov-25	10-Nov-26
MXG SIGNAL GENERATOR	N5181B	MY62220503	26-Nov-25	26-Nov-26
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 2	M17/128-RG400	NA	NA	NA
N to N RF Cable # 3	M17/128-RG400	NA	NA	NA
N to N RF Cable # 4	M17/128-RG400	NA	NA	NA
N to N RF Cable # 5	M17/128-RG400	NA	NA	NA
N to N RF Cable # 6	M17/128-RG400	NA	NA	NA
N to N RF Cable # 7	M17/128-RG400	NA	NA	NA
N to N RF Cable # 8	M17/128-RG400	NA	NA	NA
N to N RF Cable # 9	M17/128-RG400	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 2	RG 58	NA	NA	NA
BNC to BNC RF Cable # 3	RG 58	NA	NA	NA
BNC to BNC RF Cable # 4	RG 58	NA	NA	NA
BNC to BNC RF Cable # 5	RG 58	NA	NA	NA
BNC to BNC RF Cable # 6	RG 58	NA	NA	NA
BNC to N RF Cable # 1	RG 58	NA	NA	NA
Aeroflex Attenuator 10dB	49-10-43-LIM	NA	NA	NA
Aeroflex Attenuator 10dB	33-10-34-LIM	NA	NA	NA

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
EMI TEST RECEIVER	ESW26	103229	11-Aug-25	10-Aug-26
3m Semi-anechoic Chamber	NA	888032	Not Required	Not Required
BORE SIGHT ANTENNA MAST	MBS-500	1010817	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	T-200-S	T-200-S-001	Not Required	Not Required
POSITIONING CONTROLLER	MF-7802BS	MF-780208636	Not Required	Not Required
POWER SUPPLY	6032A	MY41001736	08-Aug-25	08-Aug-26
SIGNAL ANALYZER	FSV40	101432	07-Aug-25	06-Aug-26
DATA LOGGER	SDL500	A.016800	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112B	2950	09-Apr-25	09-Jul-26
BILOG ANTENNA	CBL6112D	55546	30-Jun-25	30-Jun-26
DRG HORN FREQ.	SAS-571	566	09-Feb-26	09-Feb-27
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-25	30-Sep-26
PREAMPLIFIER	PAM-0118P	427	02-Dec-25	02-Dec-26
PREAMPLIFIER 1-18GHz	EMC0518A45SE	981066	23-Jan-25	22-Jul-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	Not Required	Not Required
SIGNAL GENERATOR	SMB100A	181117	02-Sep-25	02-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

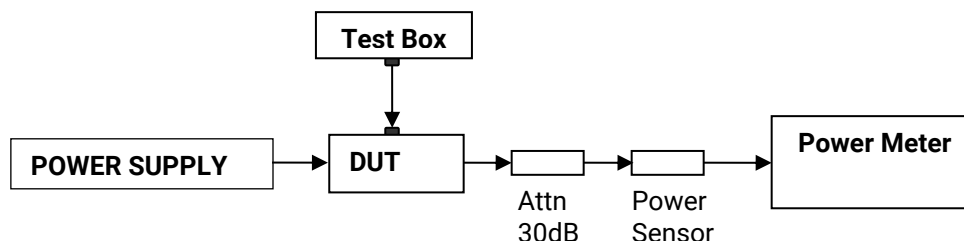
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By	Environmental conditions
RF Output Power	Low & Max	FM	400.0125, 406.2000, 450.0250, 459.1250, 467.7750, 469.9875	Farah	23.4°C, 50%RH
Frequency Stability	Max	FM	467.7750	Farah	25.1°C, 54.3%RH, 60.3°C, 50%RH, -30.1°C, 51.2%RH
Audio Frequency Response (12.5kHz / 25kHz)	Max	FM	459.1250, 467.7750	Farah	23.4°C, 50%RH
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	FM	459.1250, 467.7750	Farah	23.4°C, 50%RH
Modulation limiting (12.5kHz / 25kHz)	Max	FM	459.1250, 467.7750	Farah	23.4°C, 50%RH
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	FM/4FSK	406.2000, 450.0250, 459.1250, 467.7750	Farah	23.4°C, 50%RH
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 25kHz)	Max	FM/4FSK	459.0250, 459.6500	Farah	23.4°C, 50%RH
Transient Frequency Behavior (UHF & VHF Band) (12.5kHz / 25kHz)	Max	FM	467.7750	Farah	23.4°C, 50%RH
Adjacent Channel Power (700MHz Band) (12.5kHz / 25kHz)	Max	FM/4FSK	NA		
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	FM/4FSK	400.0125, 406.2000, 450.0250, 459.1250, 467.7750, 469.9875	Farah	23.4°C, 50%RH
Radiated Spurious Emission (12.5kHz / 25kHz)	Low / Max	FM/4FSK	400.0125, 406.2000, 450.0250, 459.1250, 467.7750, 469.9875	Firdaus & Haniff	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)	13.6V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
400.01250	25.10	6.54	46.60	8.85	Not for FCC/ISED review
406.20000	25.30	6.39	46.90	8.67	
450.02500	24.60	6.51	46.20	9.06	
459.12500	24.70	6.66	46.30	9.18	
467.77500	25.00	6.60	46.10	9.00	
469.98750	24.70	6.48	45.90	8.88	

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 40W (31.77W - 50.36W)

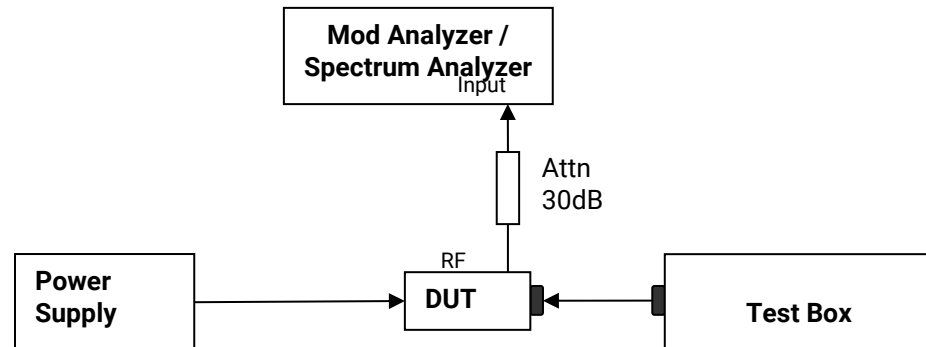
6.1.3. Test Limit

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

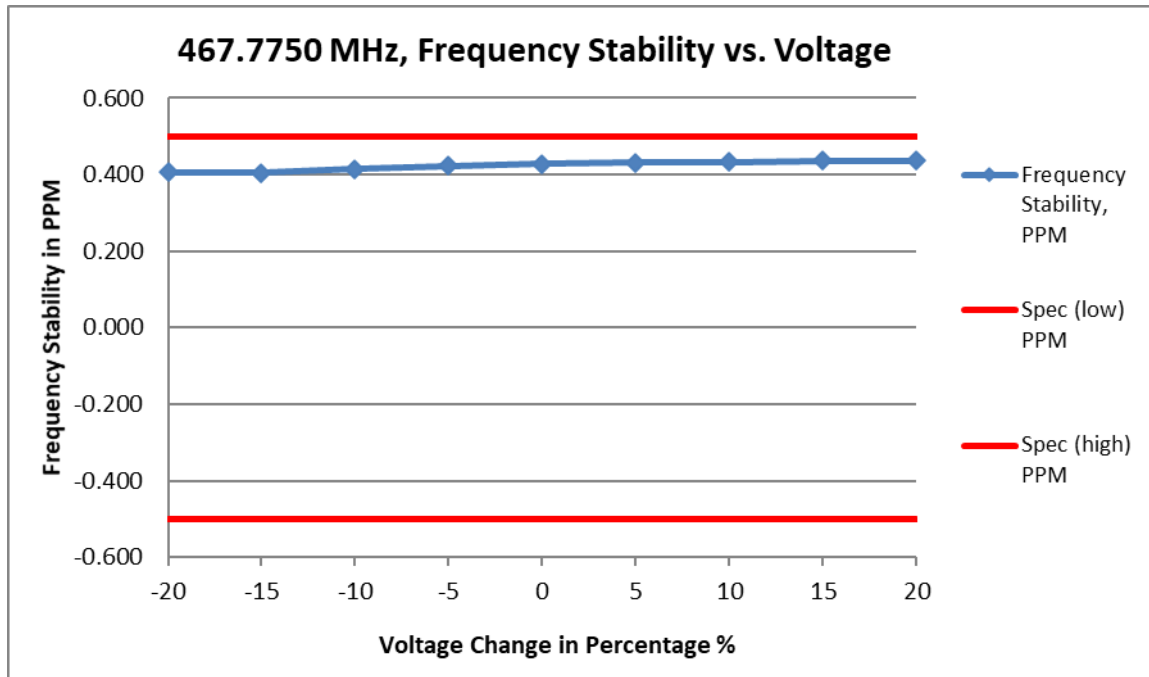


- 1) The DUT transmitter output port was connected to Modulation / Spectrum Analyzer.
- 2) Path loss for the measurement included.
- 3) Transmit the DUT and record the freq in MCF_{MHz} .
- 4) Test in 2 conditions:
 - Temperature: The frequency of the transmitter was measured from -30°C to 50°C.
 - Supply 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:

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

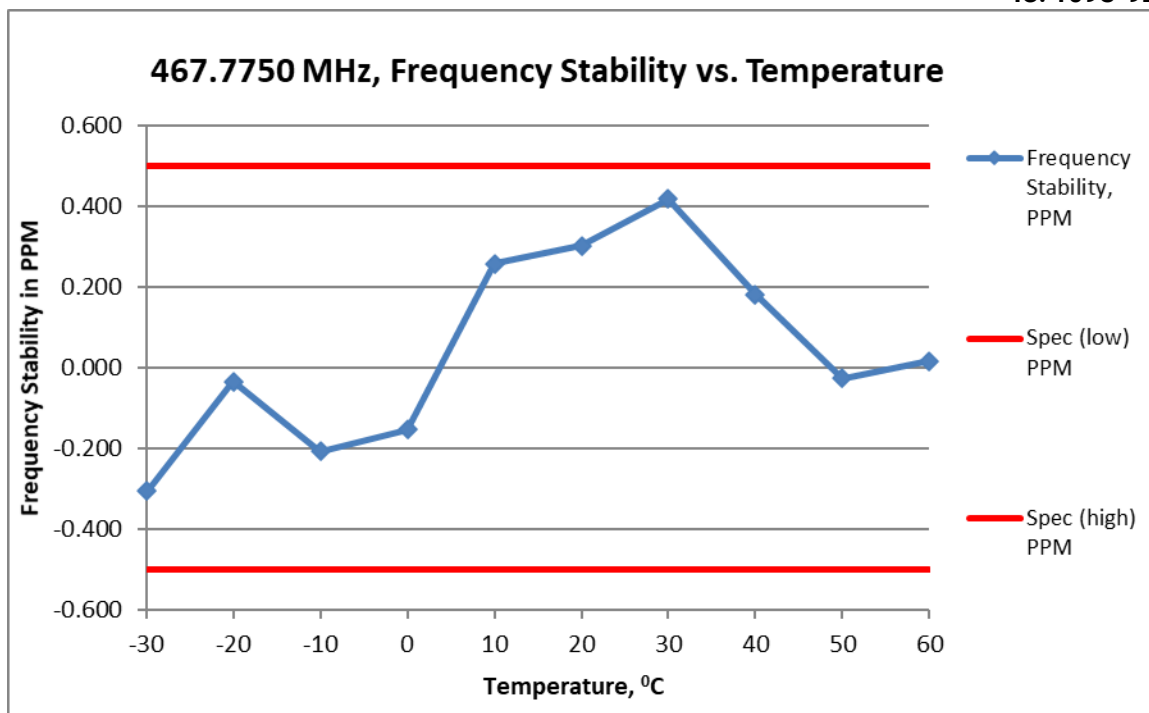
Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz

6.2.2. Test Result



(i) Frequency Stability VS Voltage

Frequency / Channel Spacing	467.7750 MHz / 12.5 kHz				
Temperature, °C	25				
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	10.800	467.775190	0.406	-0.500	0.500
-15	11.560	467.775189	0.405	-0.500	0.500
-10	12.240	467.775194	0.414	-0.500	0.500
-5	12.920	467.775197	0.422	-0.500	0.500
0	13.600	467.775200	0.427	-0.500	0.500
5	14.280	467.775201	0.431	-0.500	0.500
10	14.960	467.775202	0.433	-0.500	0.500
15	15.640	467.775204	0.435	-0.500	0.500
20	16.320	467.775204	0.435	-0.500	0.500



(ii) Frequency Stability VS temperature

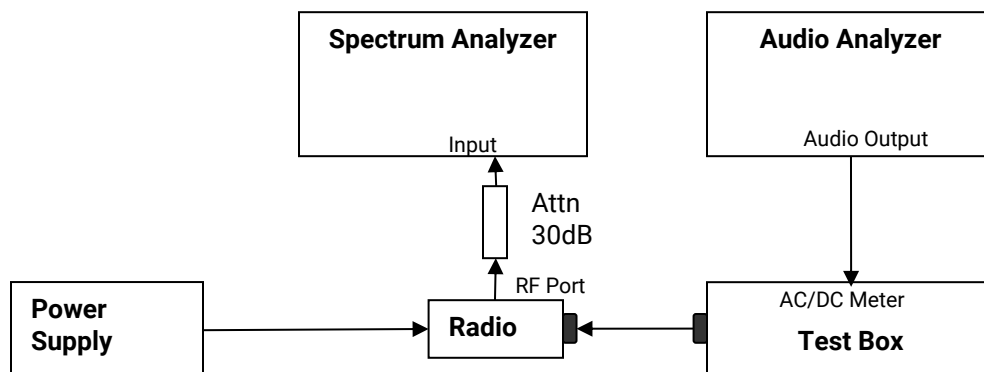
Frequency / Channel Spacing	467.7750 MHz / 12.5 kHz			
Voltage, V	13.6			
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	467.774857	-0.305	-0.500	0.500
-20	467.774984	-0.035	-0.500	0.500
-10	467.774903	-0.207	-0.500	0.500
0	467.774928	-0.154	-0.500	0.500
10	467.775120	0.257	-0.500	0.500
20	467.775141	0.302	-0.500	0.500
30	467.775195	0.417	-0.500	0.500
40	467.775085	0.181	-0.500	0.500
50	467.774987	-0.027	-0.500	0.500
60	467.775008	0.016	-0.500	0.500

6.2.3. Test Limit

As per manufacturer declared spec +/- 0.5ppm

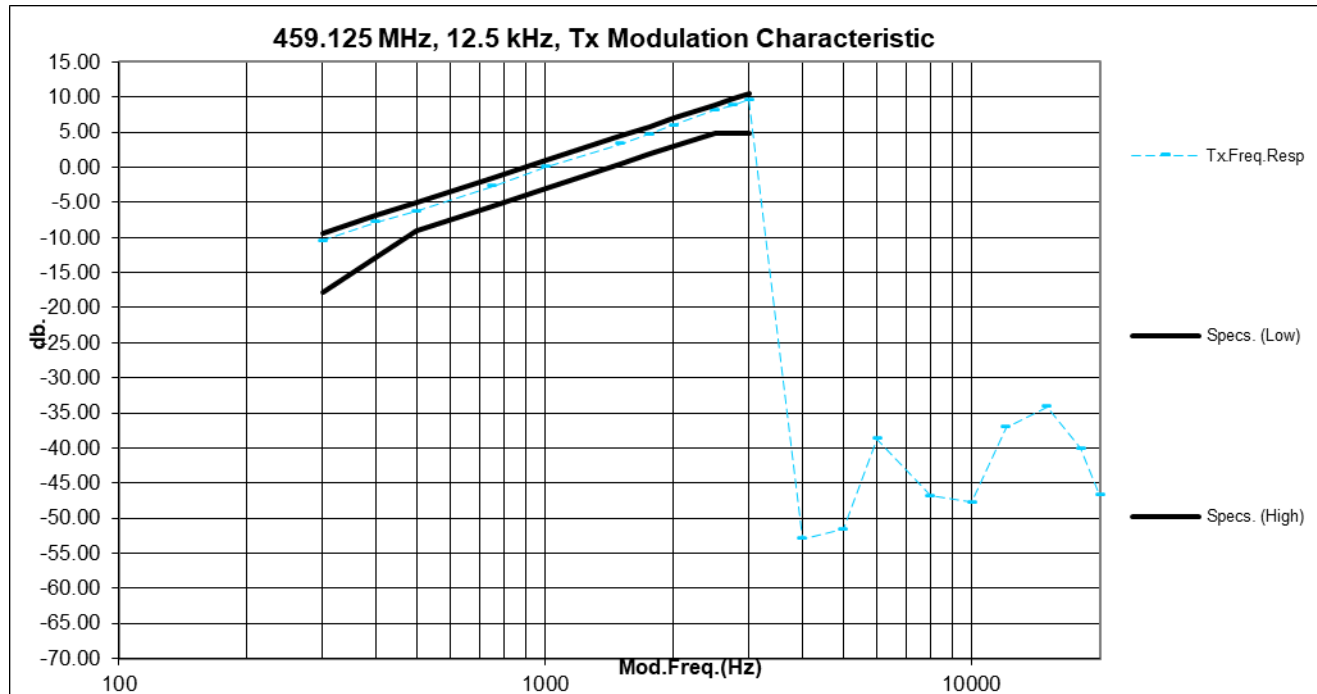
6.3. Modulation Characteristics

6.3.1. Test Setup

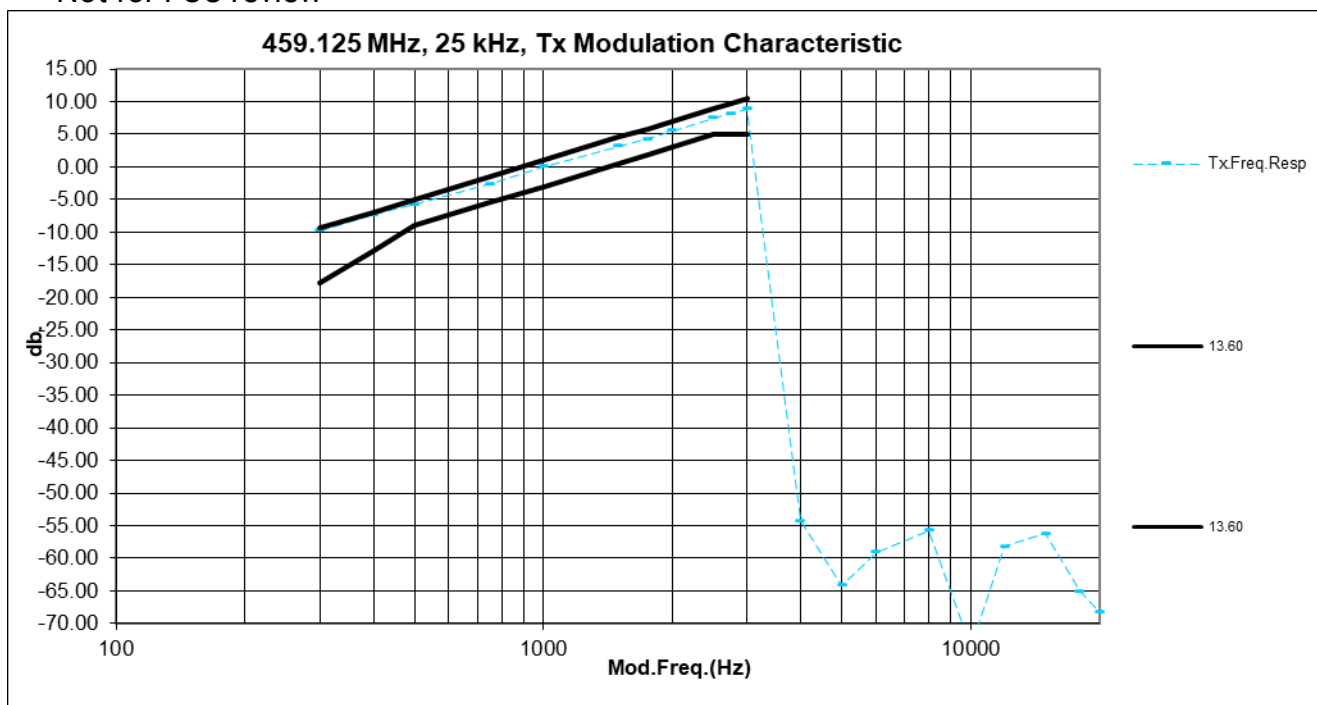


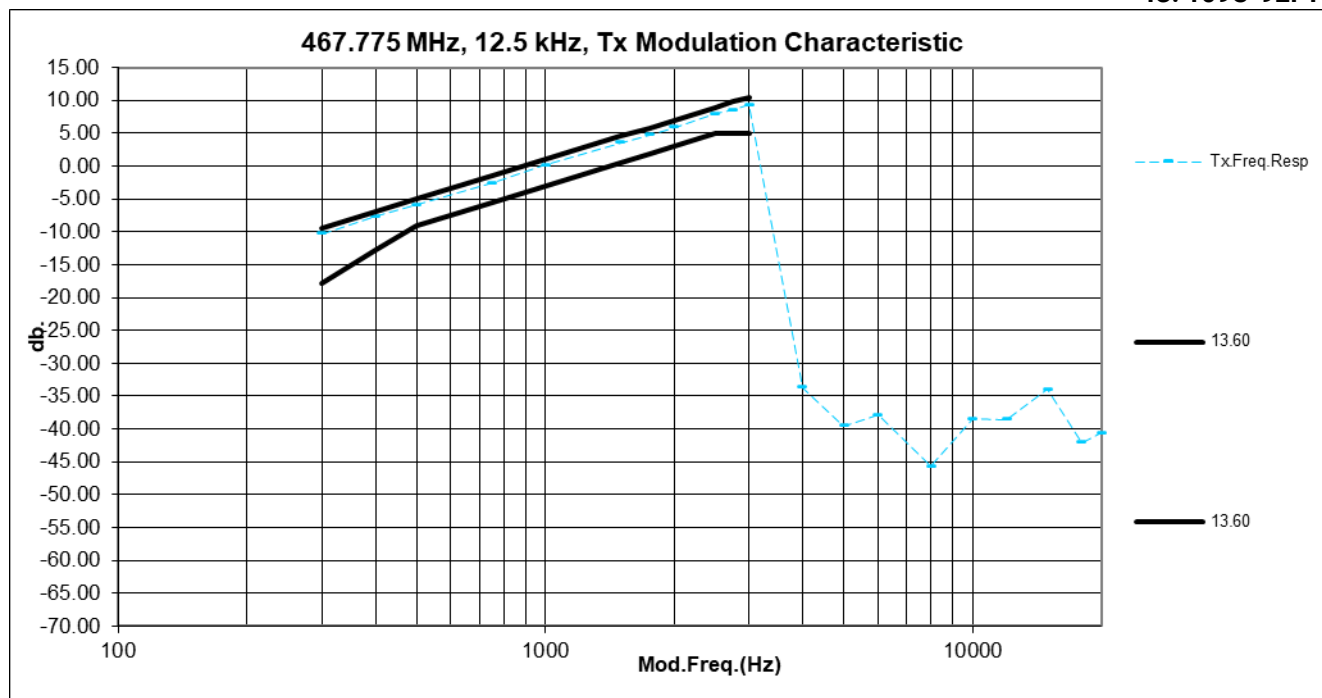
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5) 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

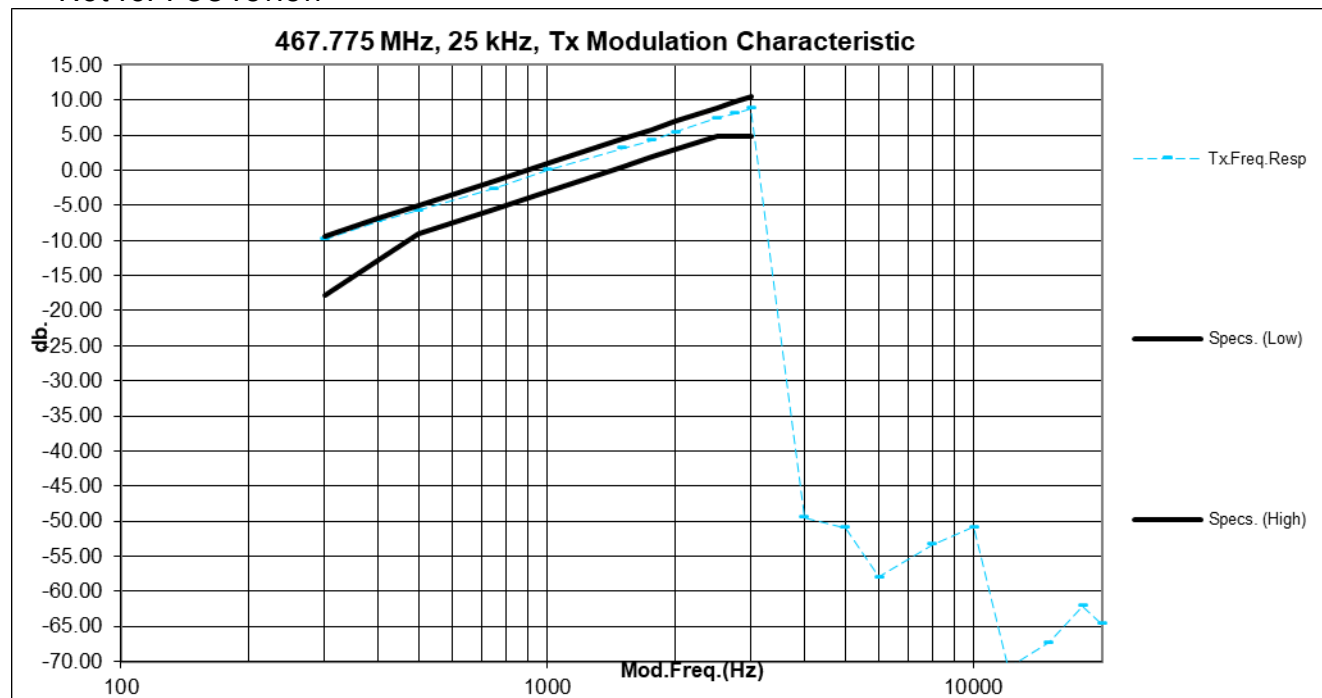


Not for FCC review

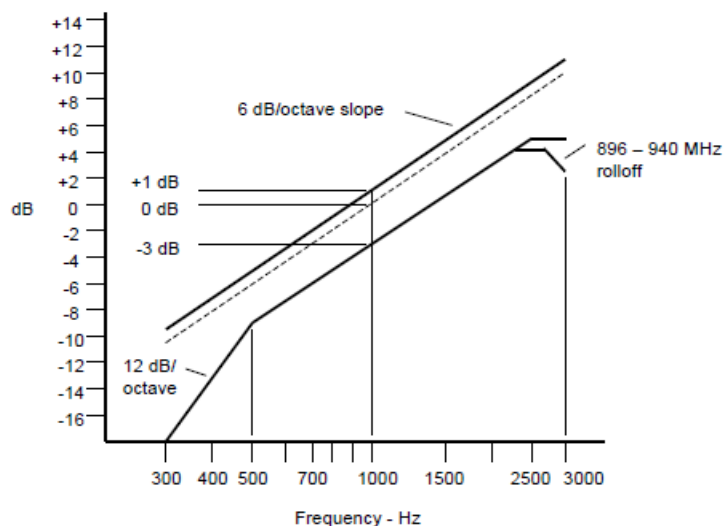




Not for FCC review



6.3.3. Test Limit

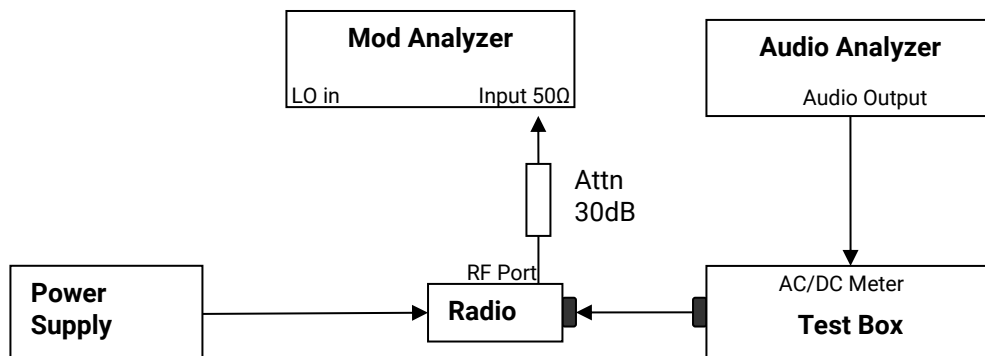


Note:

- 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.

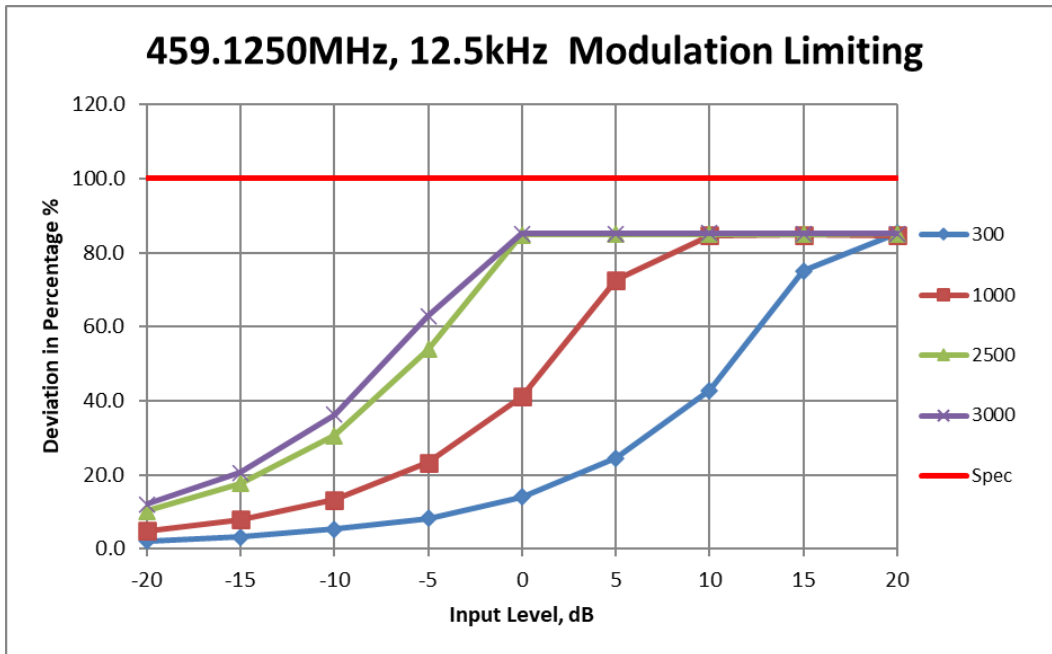
6.4. Modulation Limiting

6.4.1. Test Setup

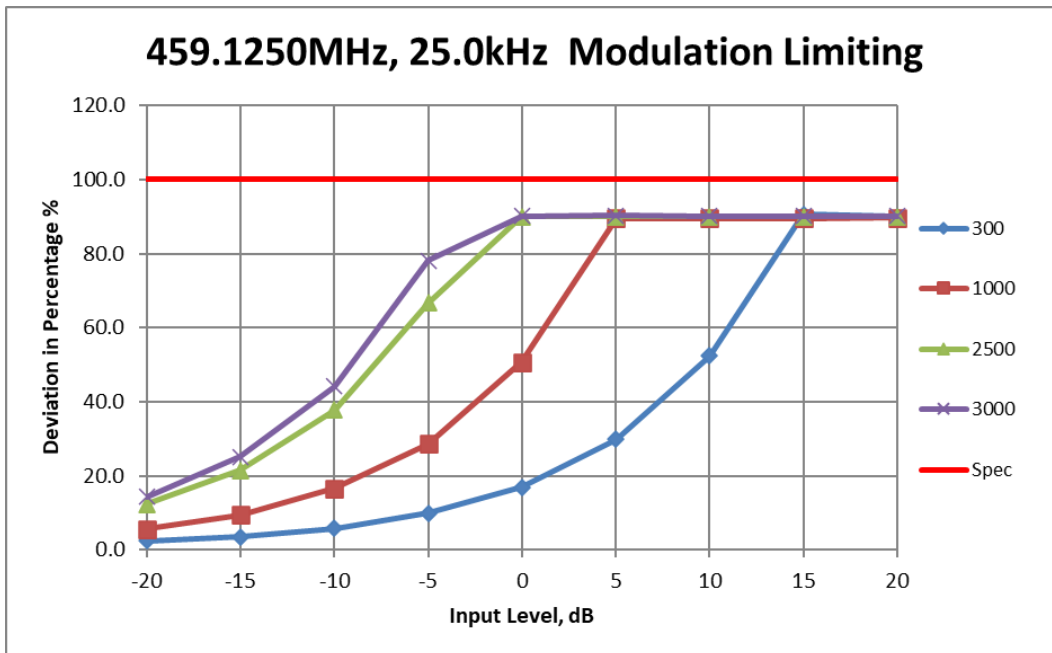


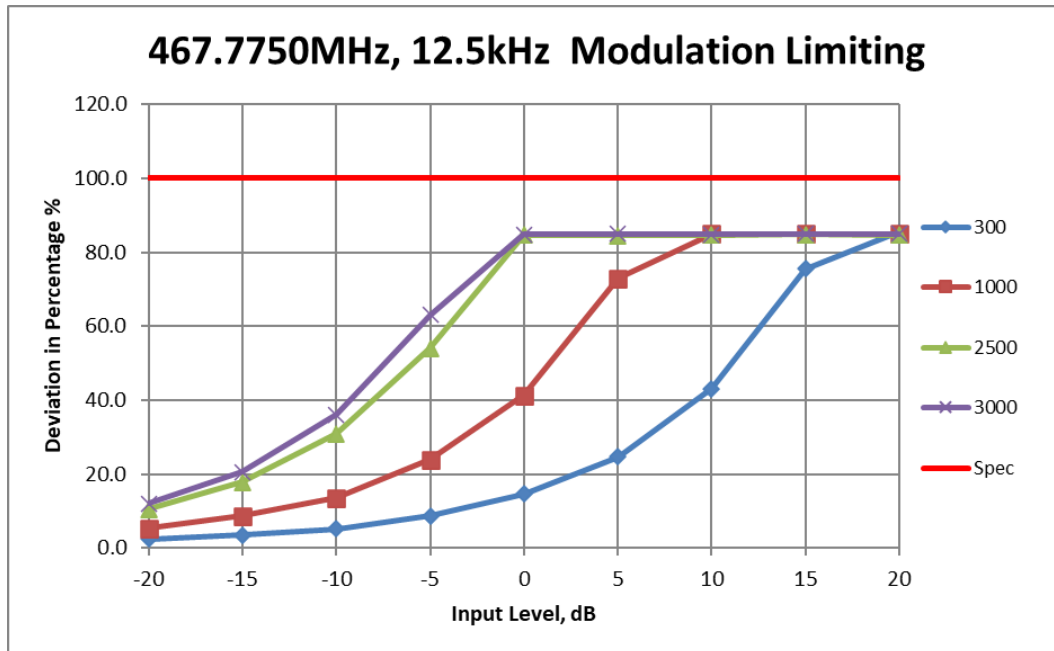
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 5) Record the 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

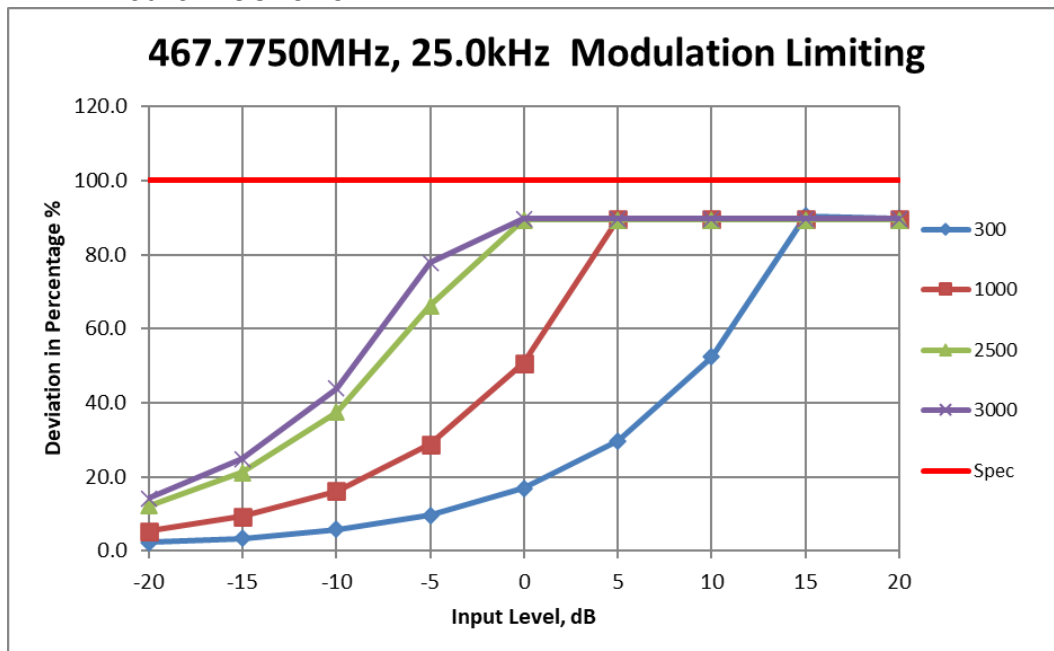


Not for FCC review





Not for FCC review

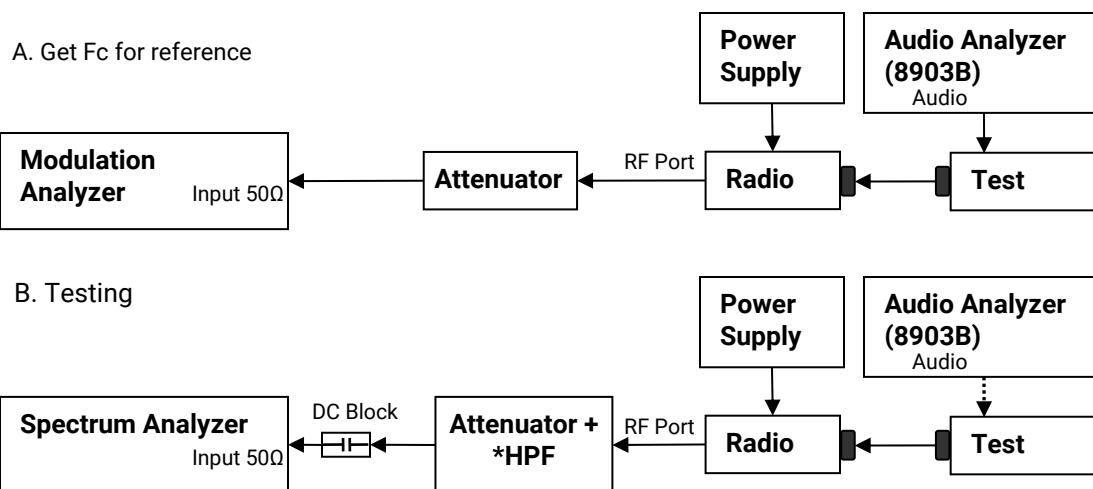


6.4.3. Test Limit

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 Fc 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/ ISED 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)

Standard Audio Modulation (25 kHz Channelization, Analog Voice):

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3 kHz with a 5 kHz deviation.

$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} = 16K0F3E$ portion of the designator indicates voice.

Therefore, the entire designator for 25 kHz channelization analog voice is 16K0F3E.

Standard Audio Modulation (12.5 kHz Channelization, Analog Voice):

Emission Designator 11K0F3E

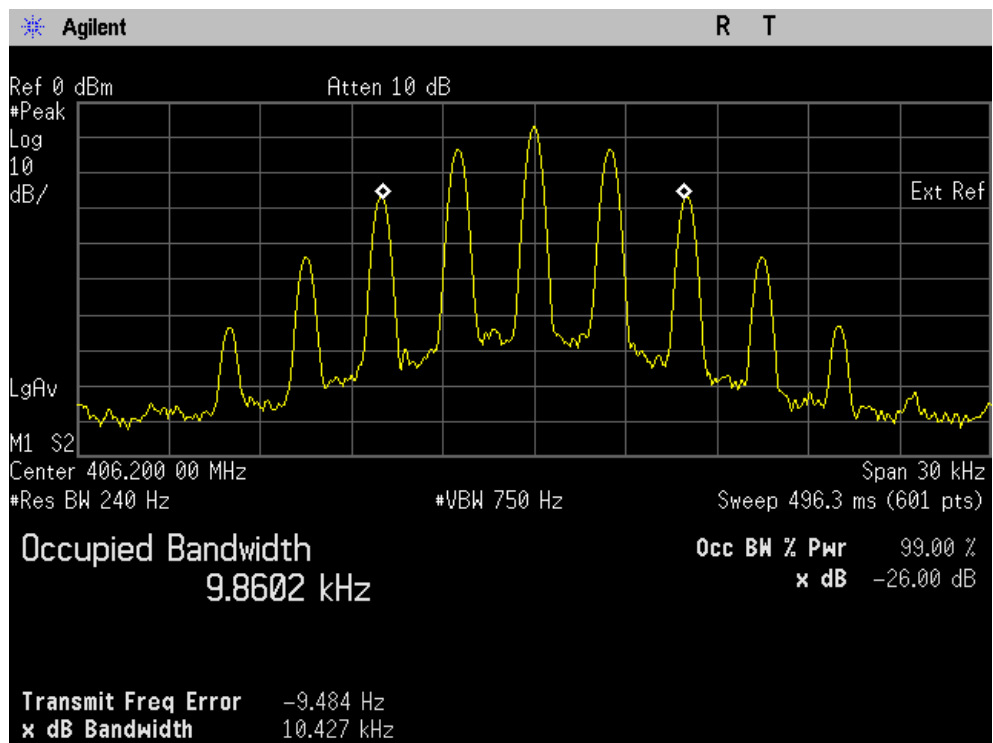
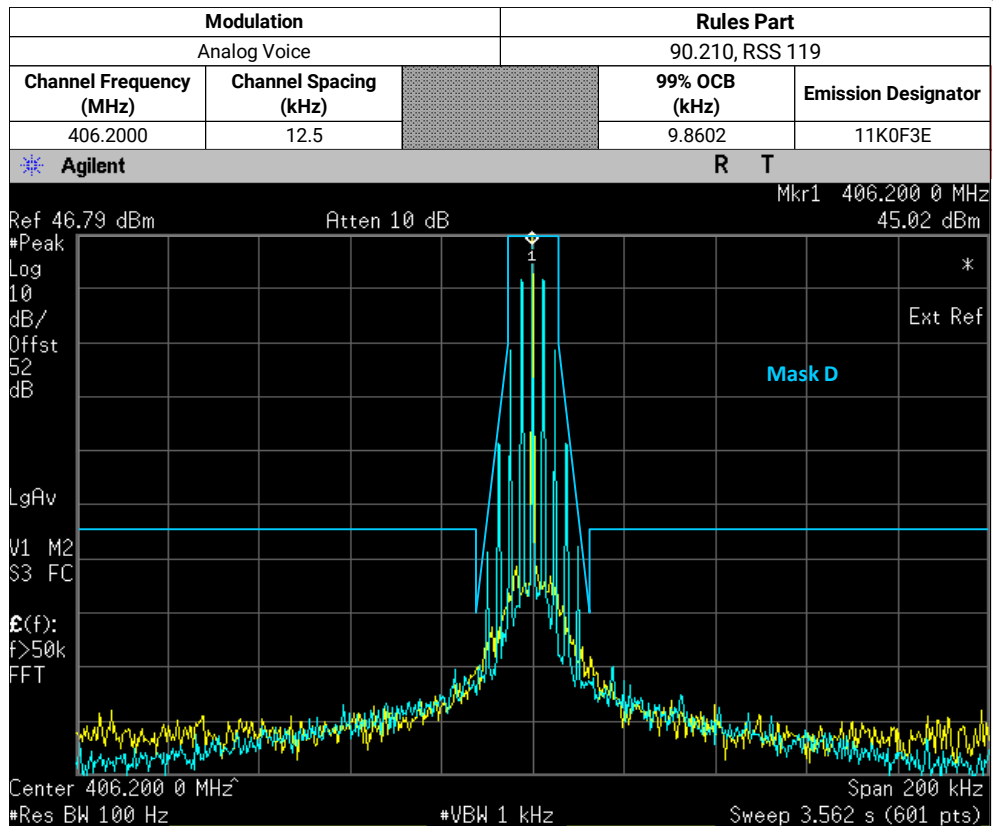
In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

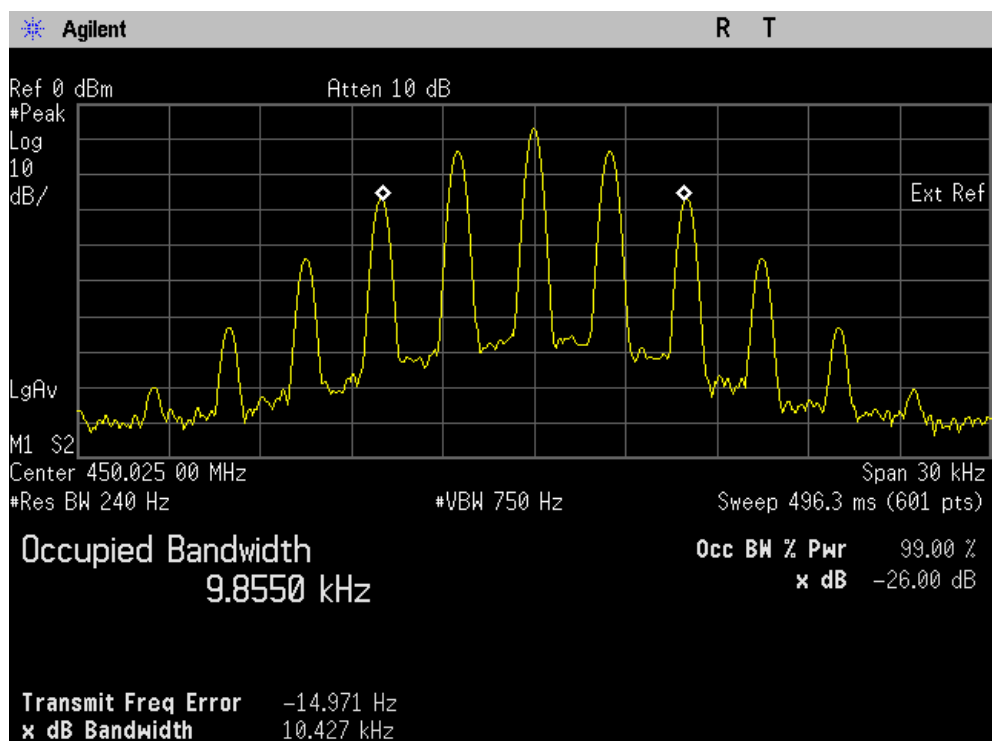
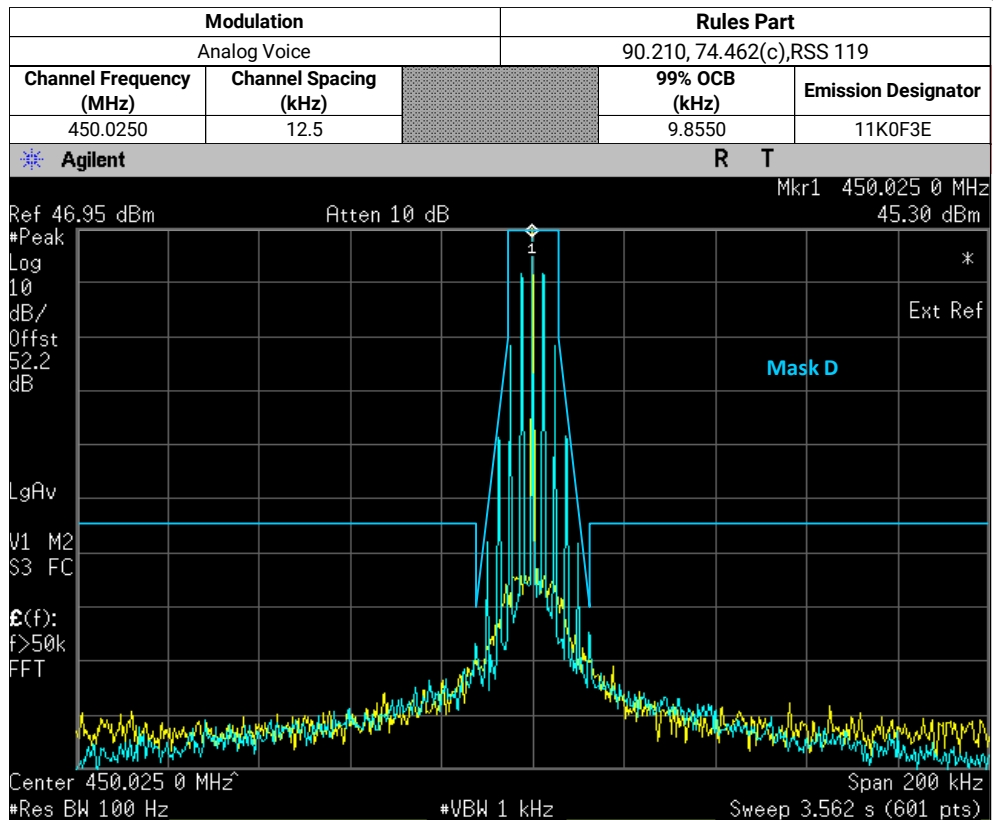
$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0F3E$ portion of the designator indicates voice.

Therefore, the entire designator for 12.5 kHz channelization analog voice is 11K0F3E.

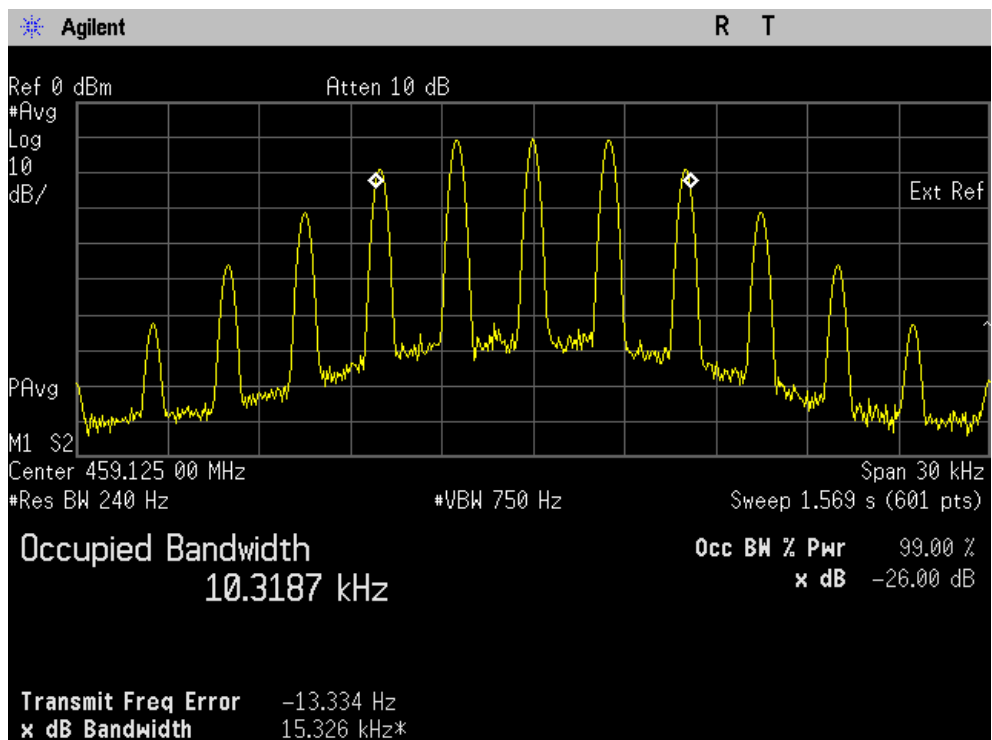
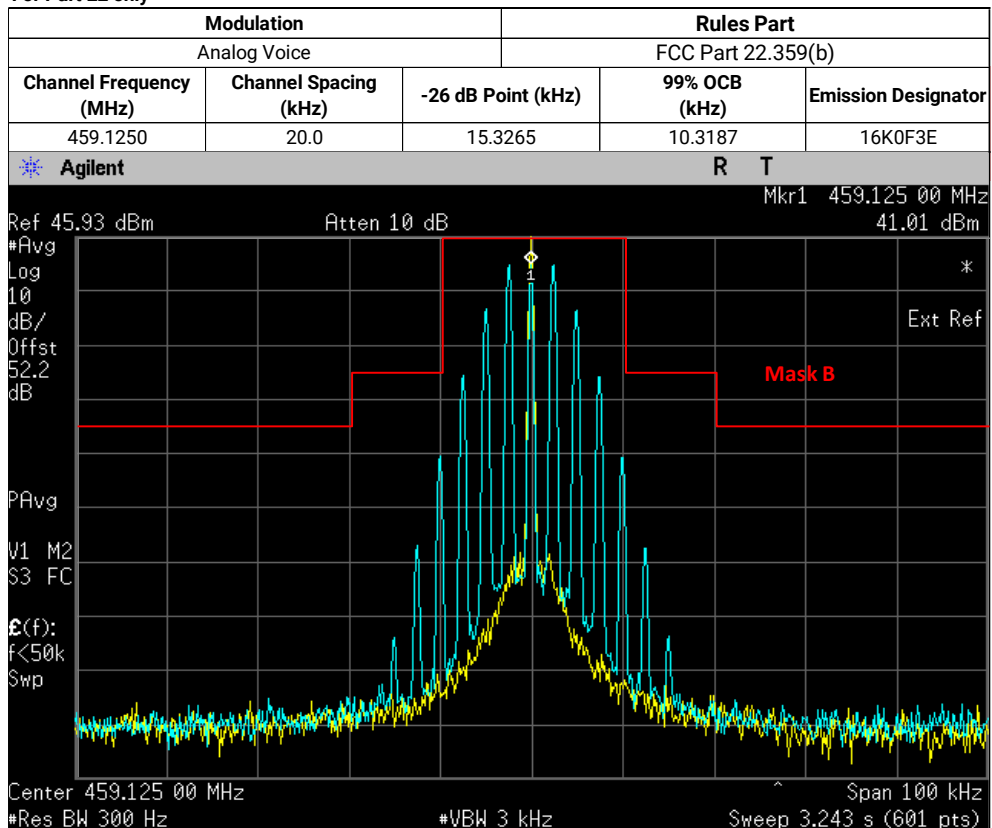
Justification for only testing at high power:

The occupied bandwidth of a signal is largely determined by the device's Power Amplifier (PA). As a transmitter's power approaches its maximum limit (the compression point), the PA operates in its most non-linear region. Non-linearity in the PA creates intermodulation products and spectral regrowth (spatter). This results in a less clean transmitted signal spectrum. Therefore, the scenario has a higher probability to violate regulatory limits and cause interference will occur when the device is operating at its maximum rated output power. Testing at lower power levels would not demonstrate the true worst-case spectral performance.

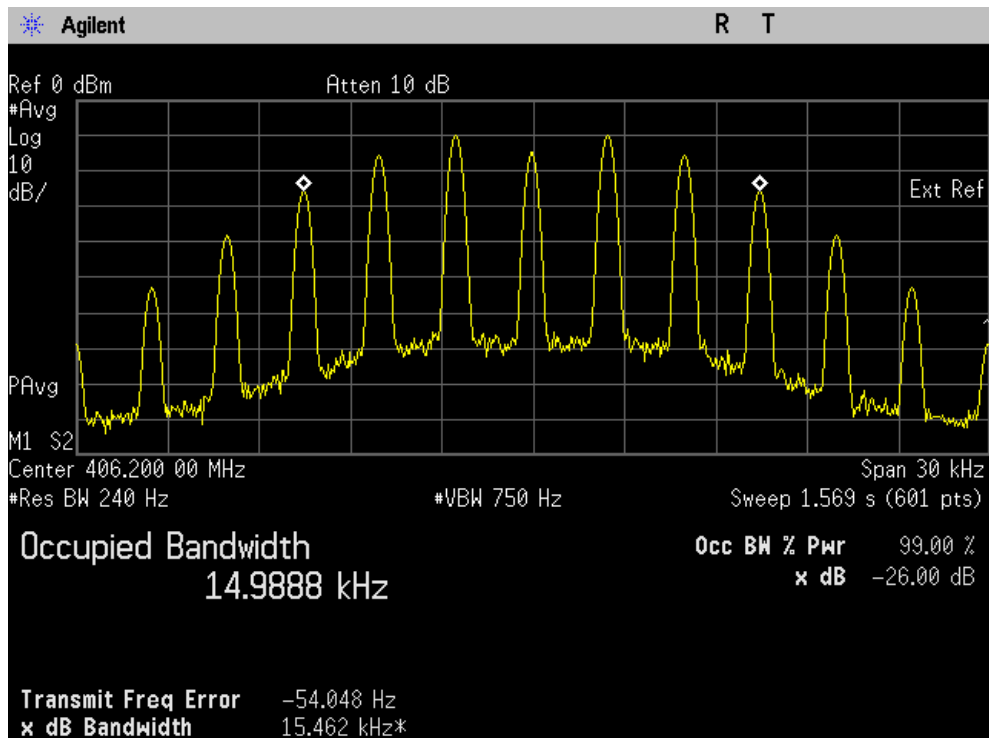
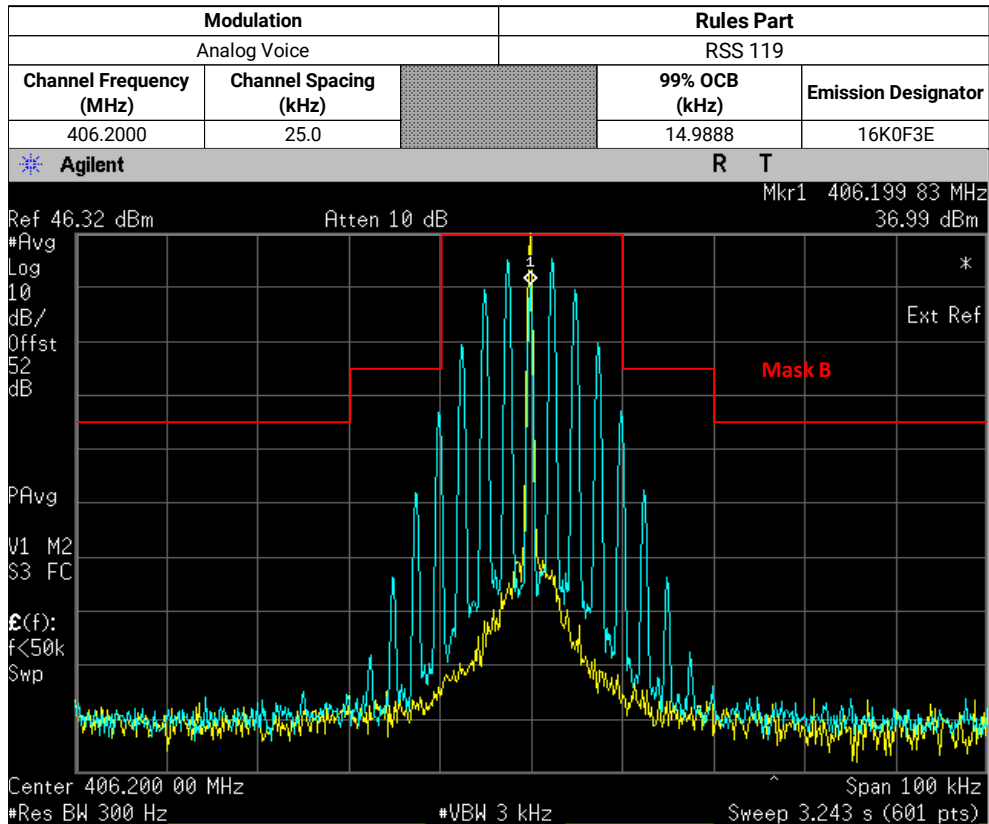




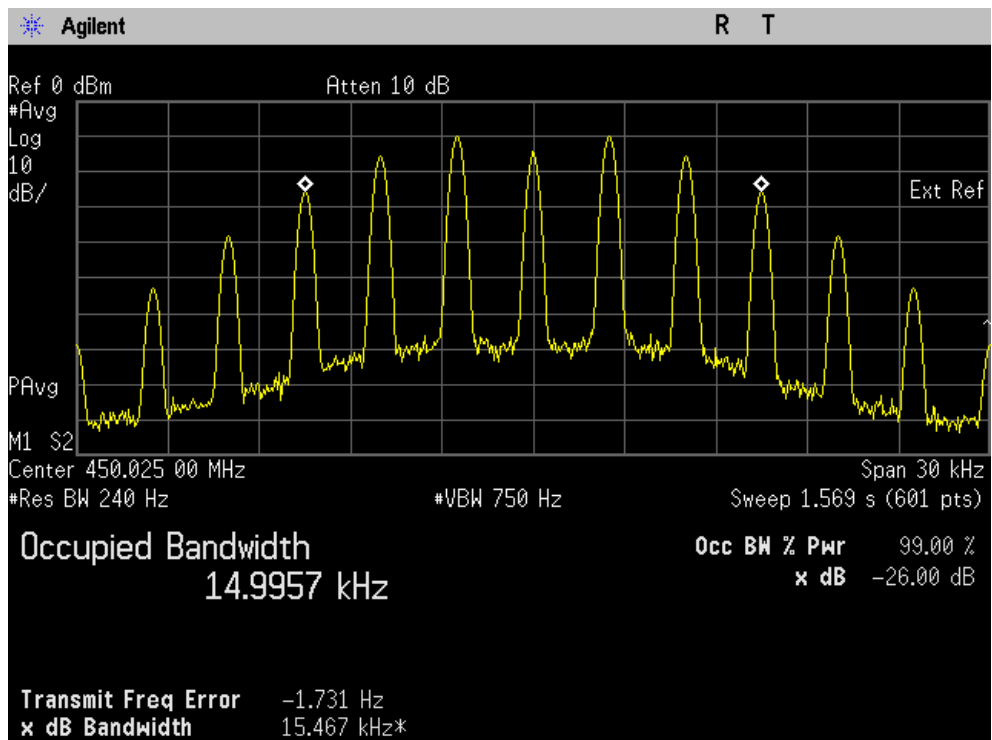
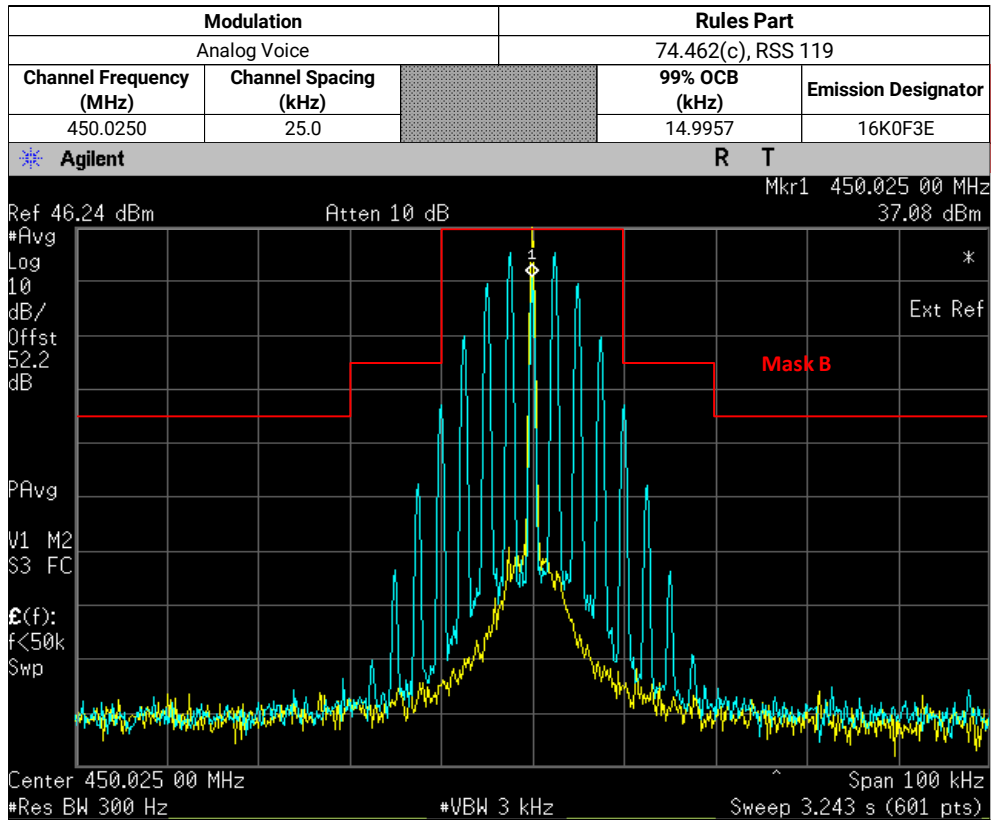
For Part 22 only

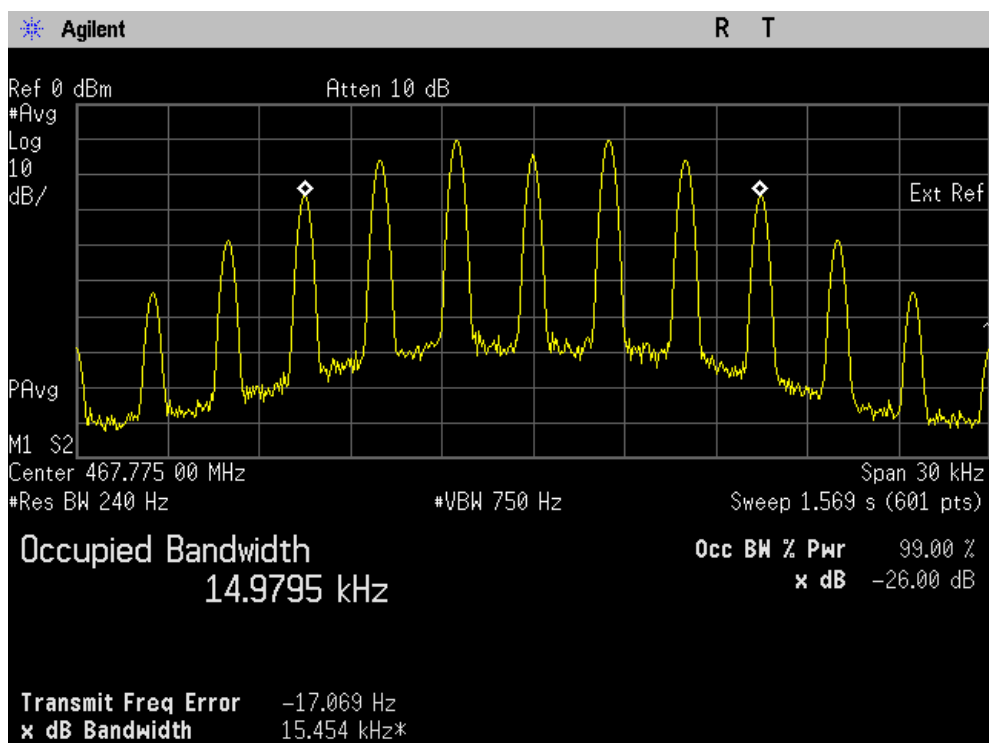
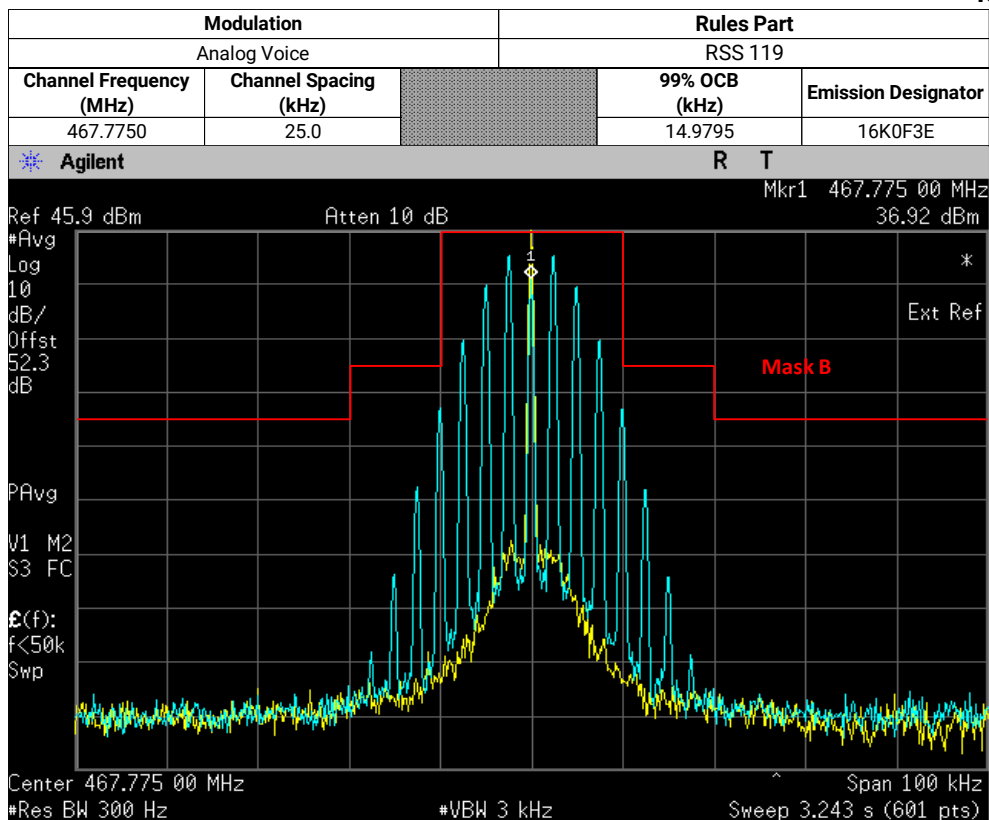


Not for FCC review

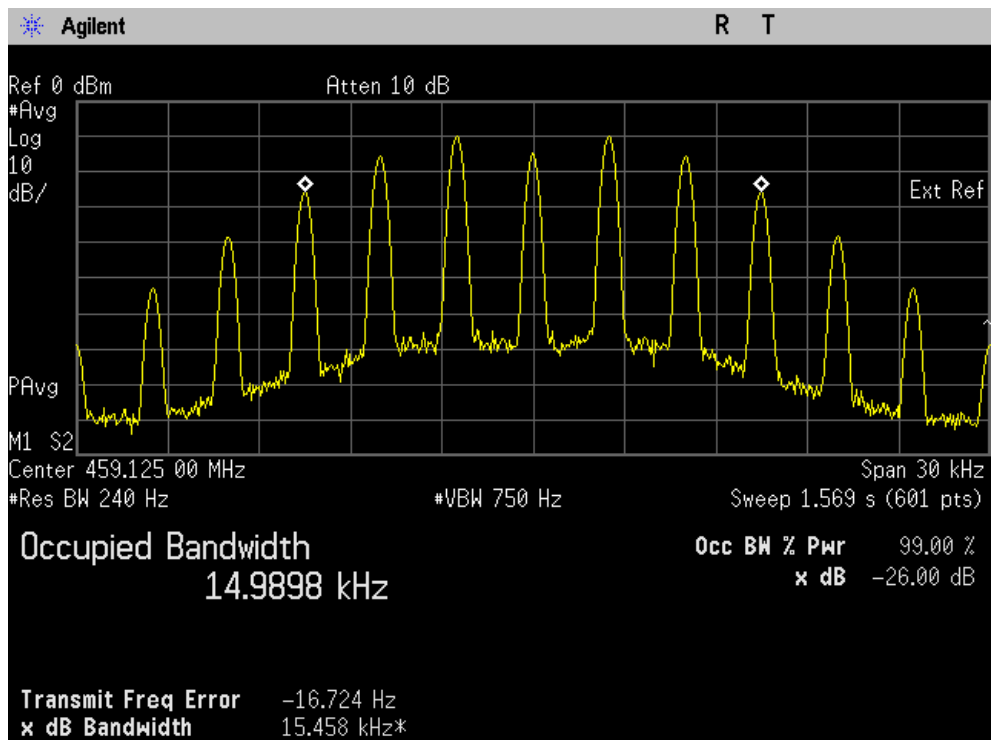
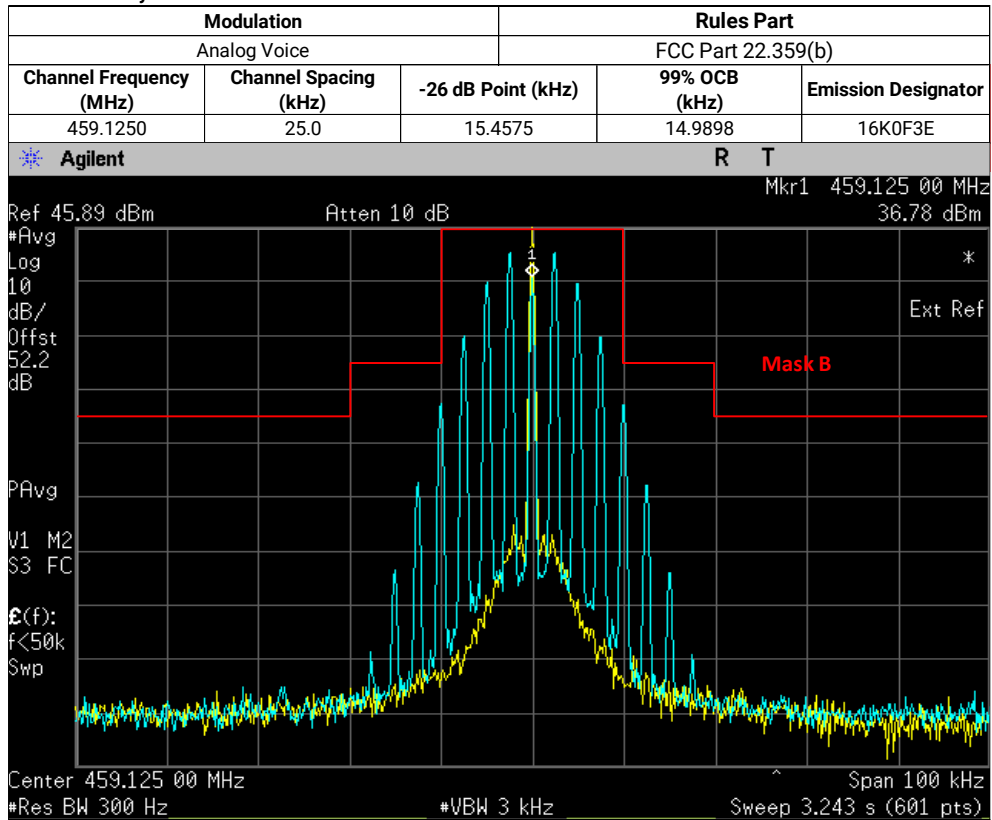


For Part 74

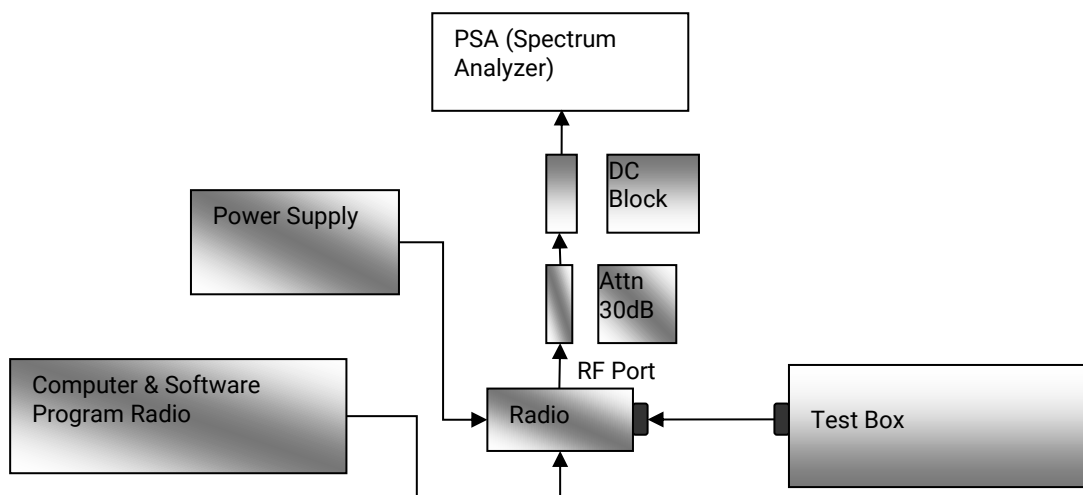




For Part 22 only



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)

Digital (12.5 kHz Channelization, Digital Voice/Data/Voice+Data):
Emission Designator 7K60F1E/D/W

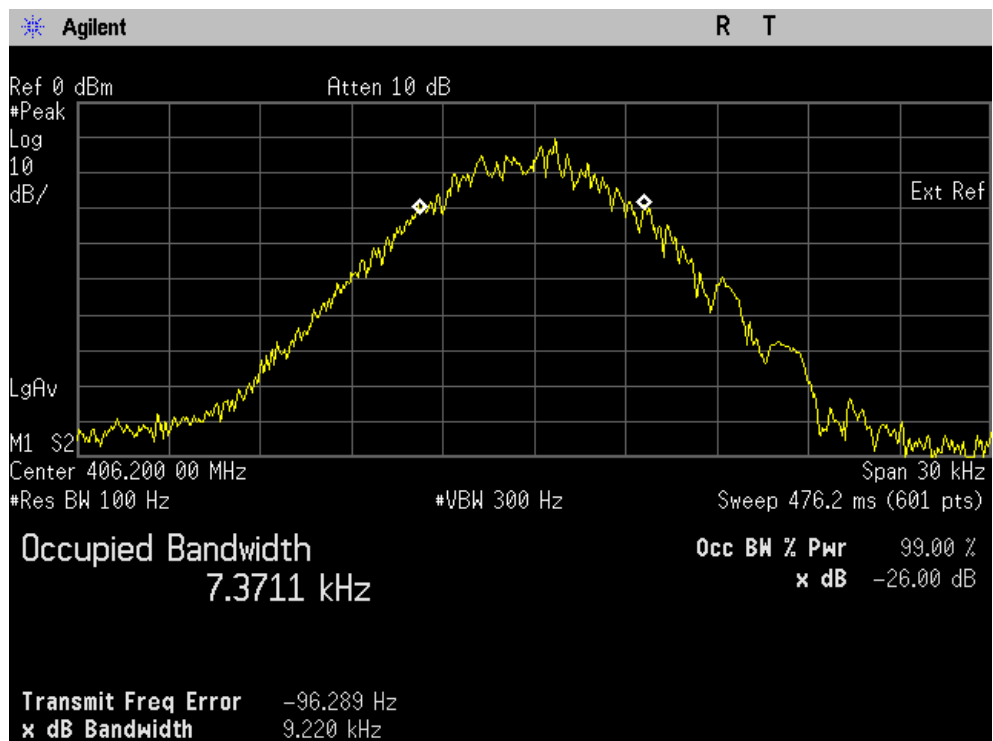
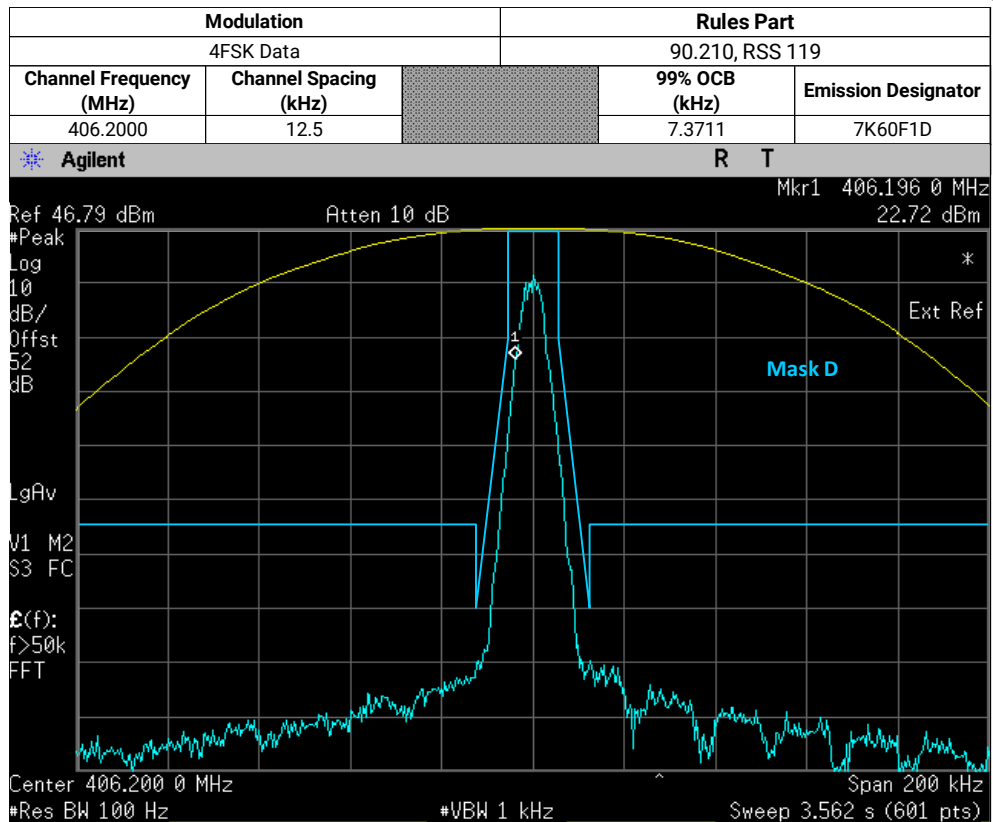
The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

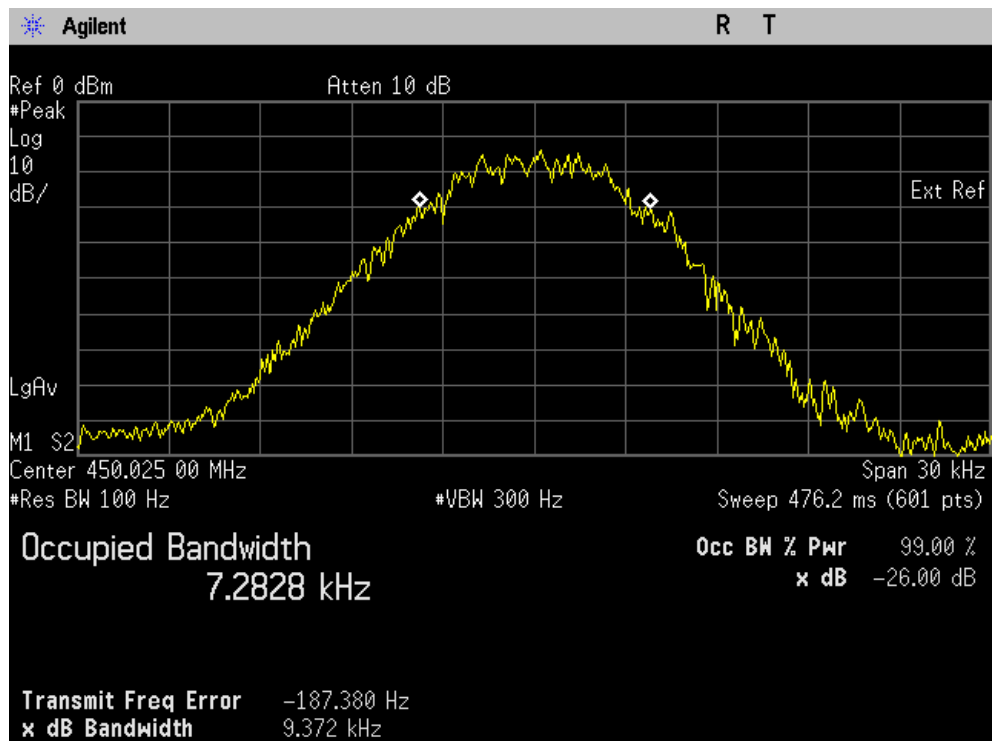
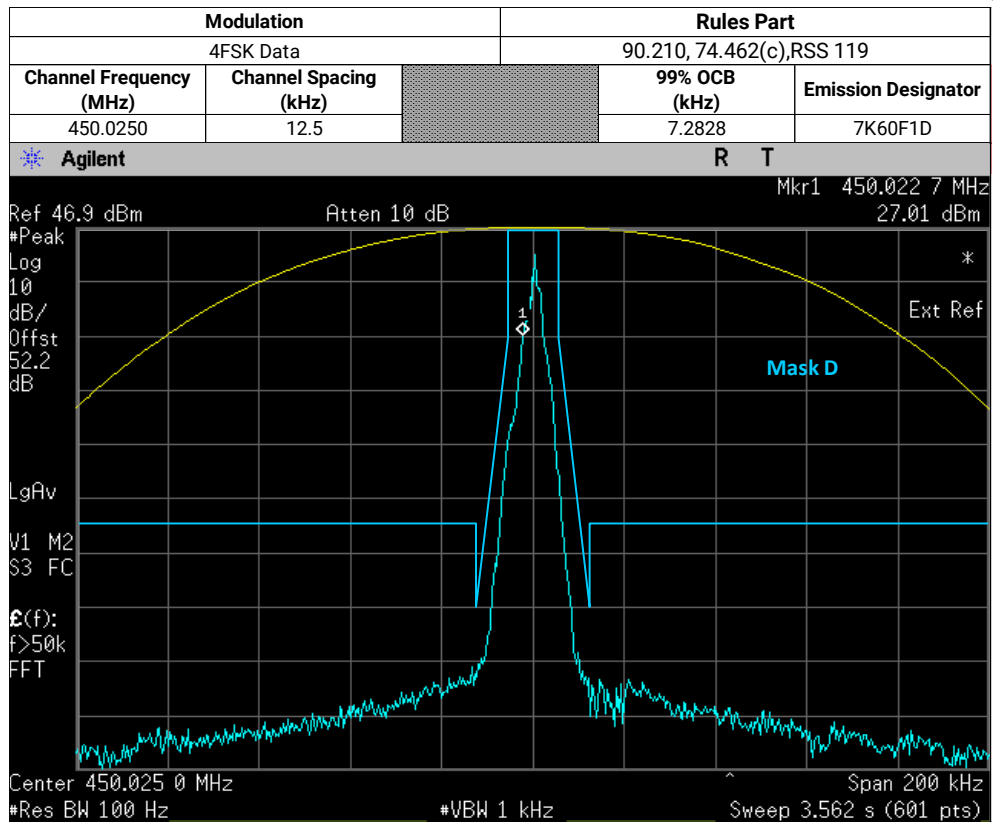
F1E/D/W portion of the designator indicates digital voice/data/voice+data.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 7K60F1E/D/W.

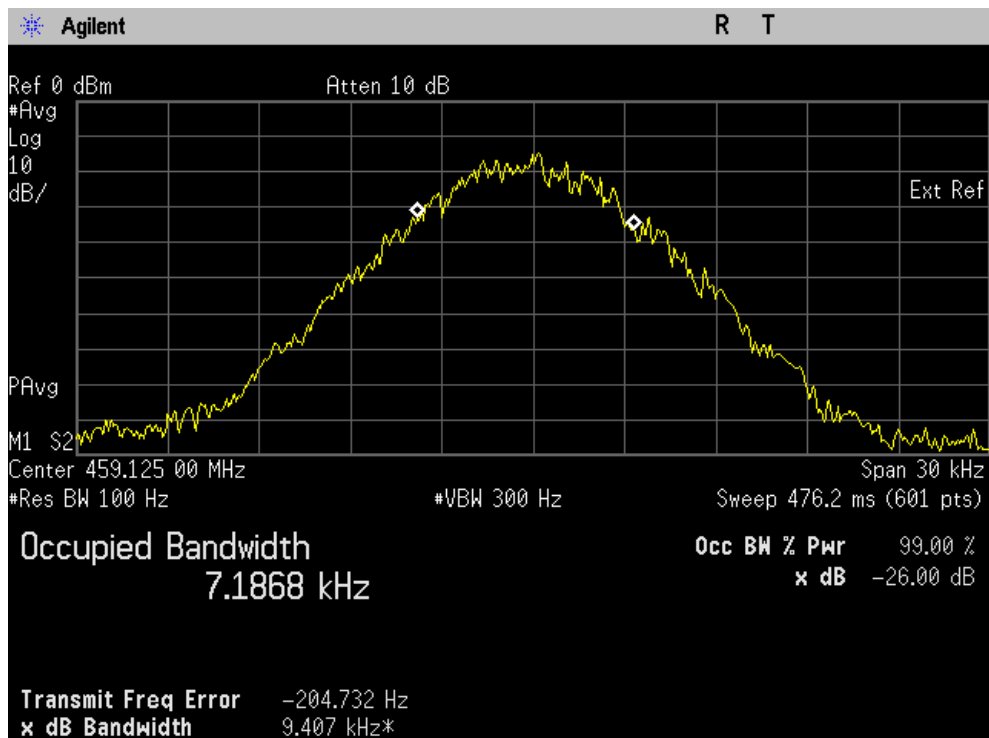
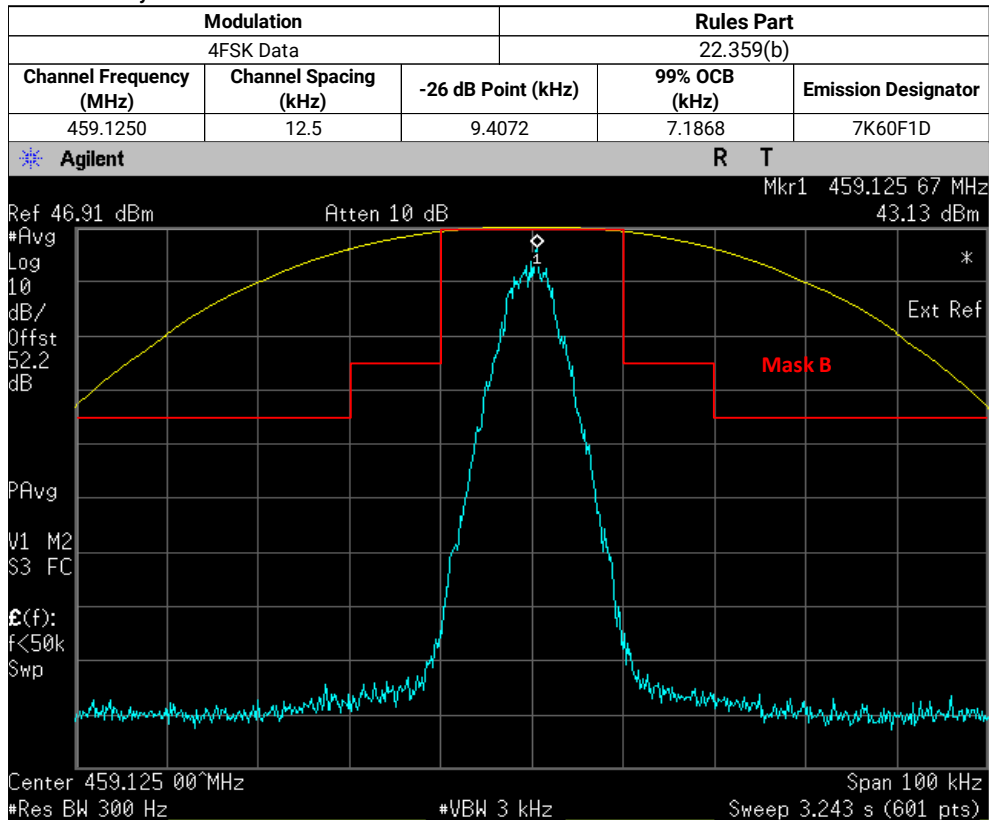
Justification for only testing at high power:

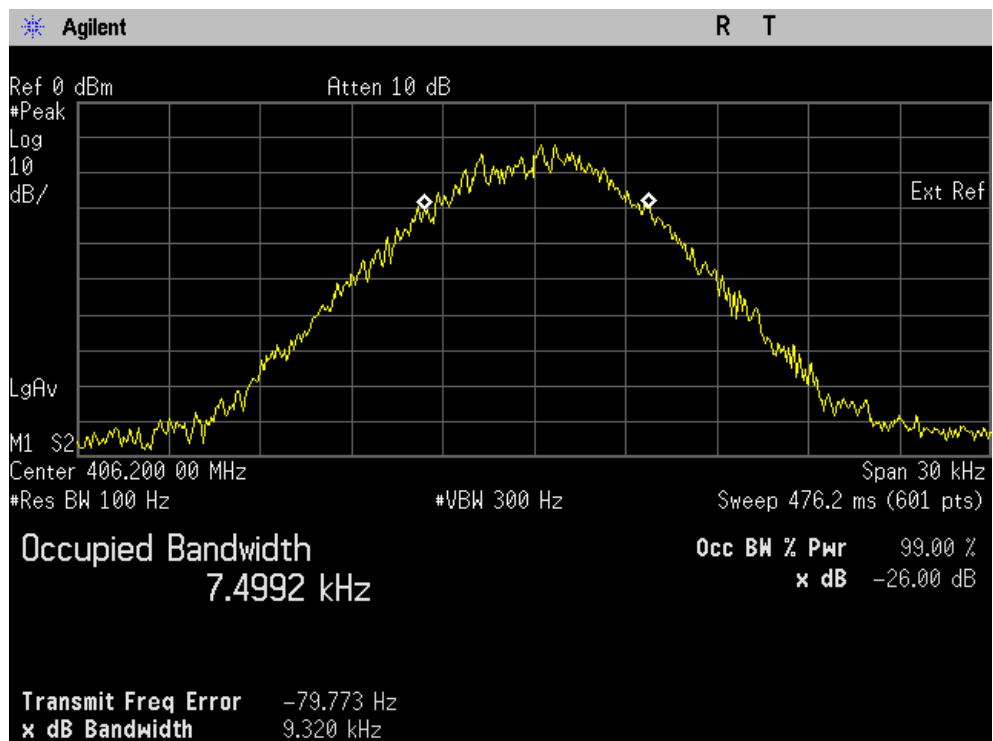
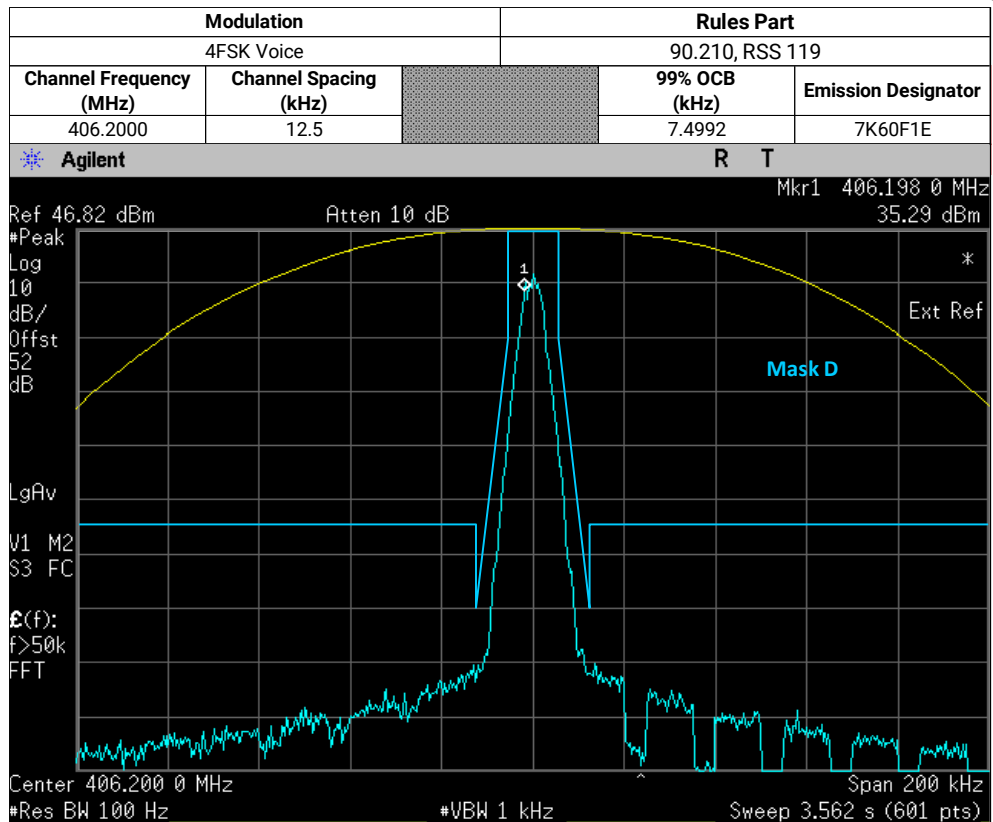
The occupied bandwidth of a signal is largely determined by the device's Power Amplifier (PA). As a transmitter's power approaches its maximum limit (the compression point), the PA operates in its most non-linear region. Non-linearity in the PA creates intermodulation products and spectral regrowth (spatter). This results in a less clean transmitted signal spectrum. Therefore, the scenario has a higher probability to violate regulatory limits and cause interference will occur when the device is operating at its maximum rated output power. Testing at lower power levels would not demonstrate the true worst-case spectral performance.

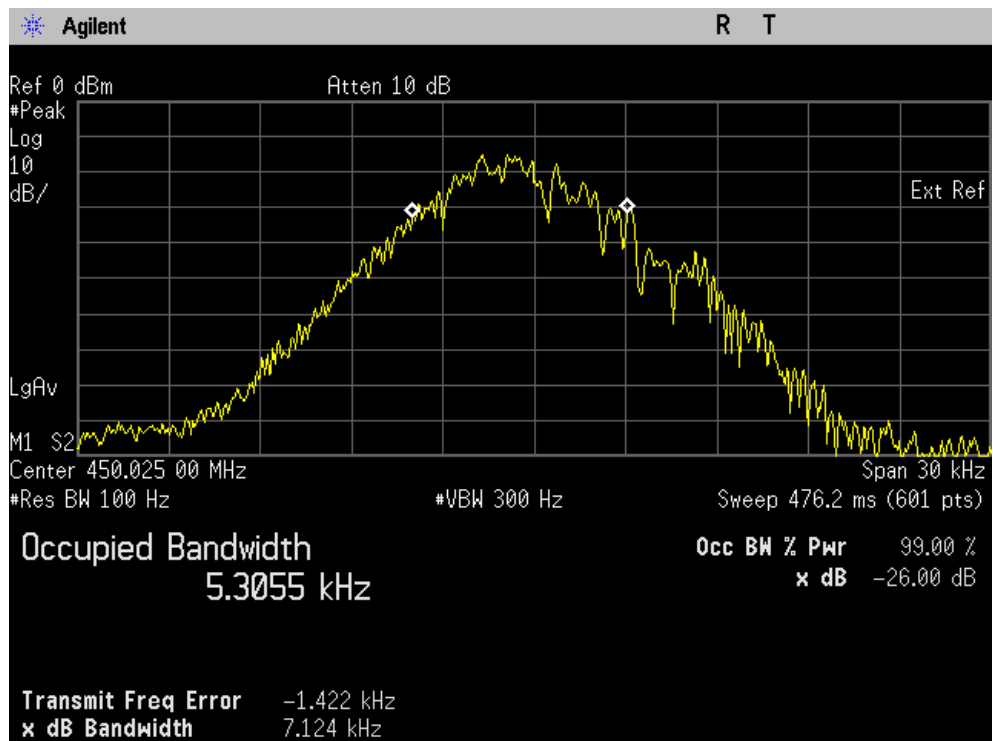
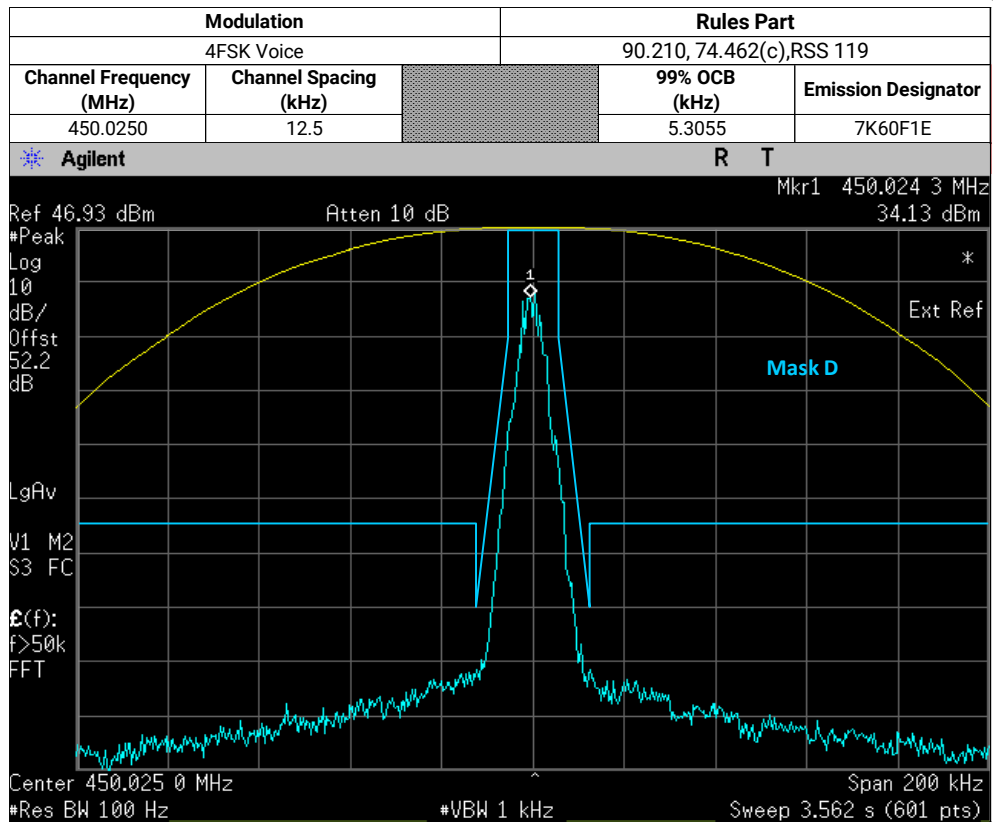




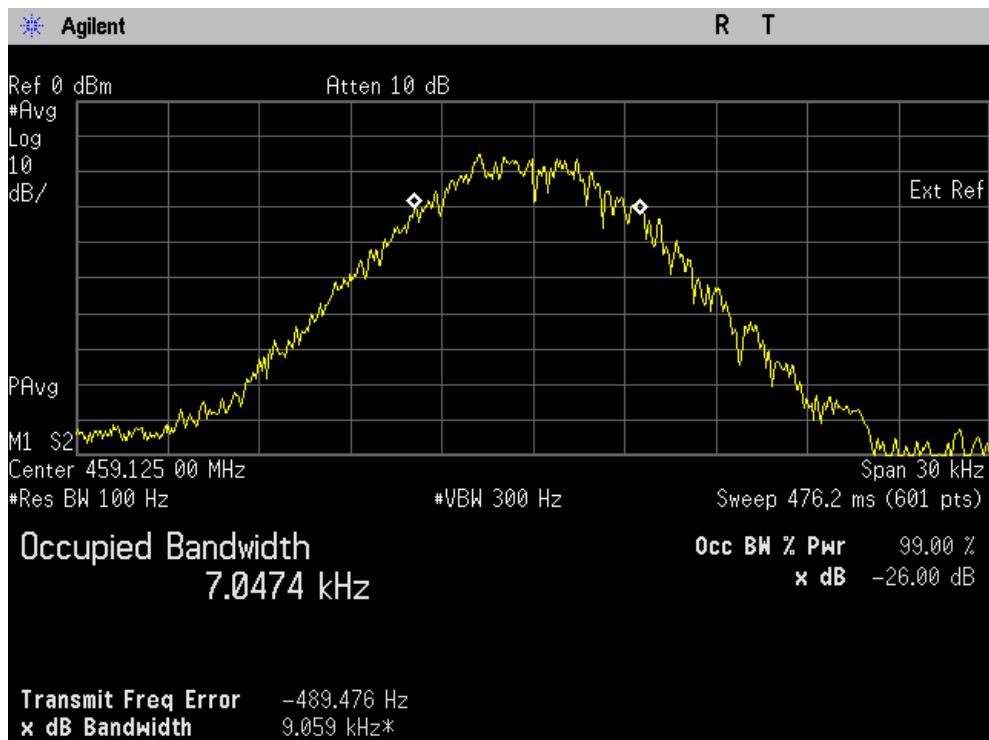
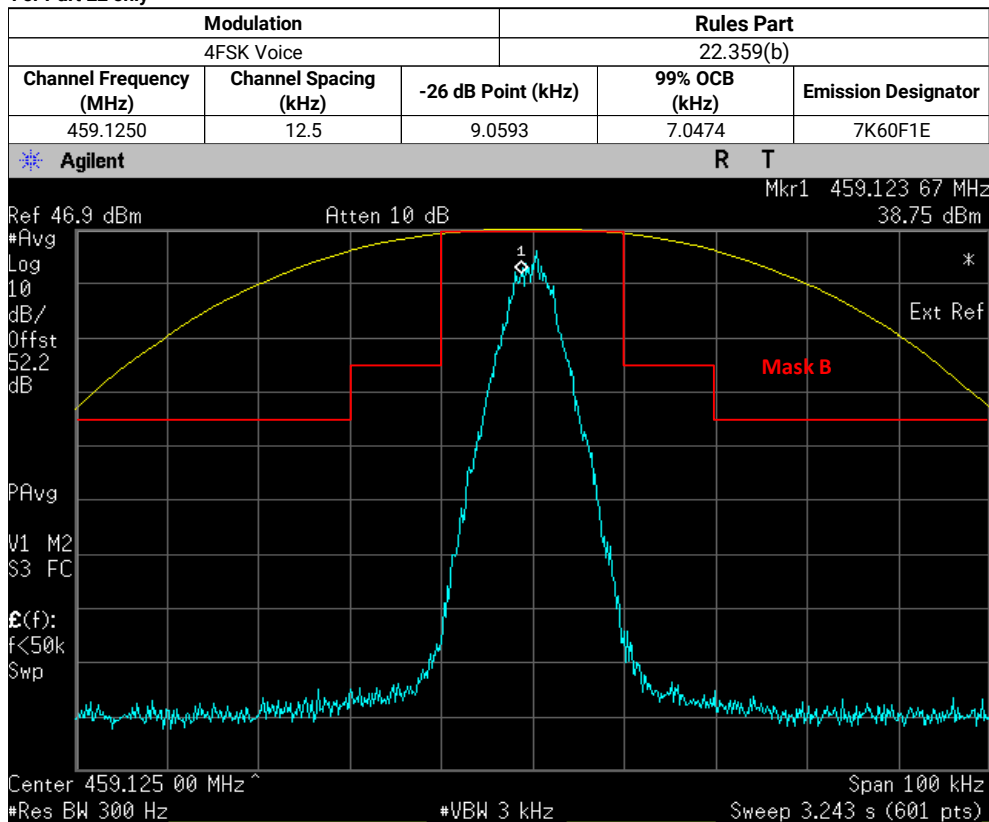
For Part 22 only

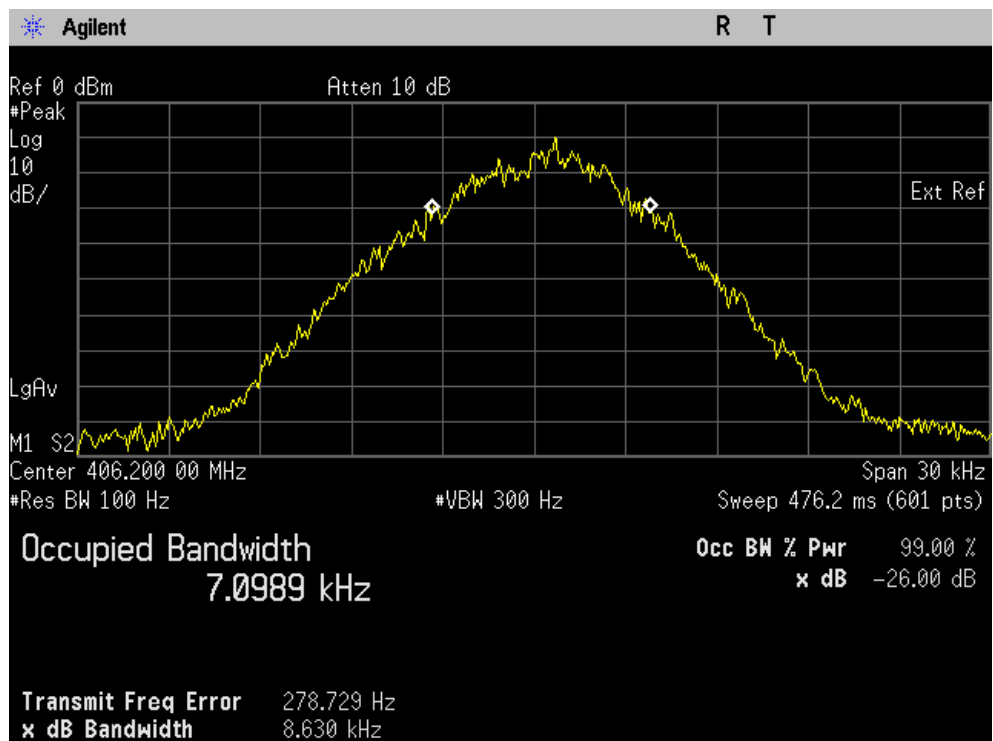
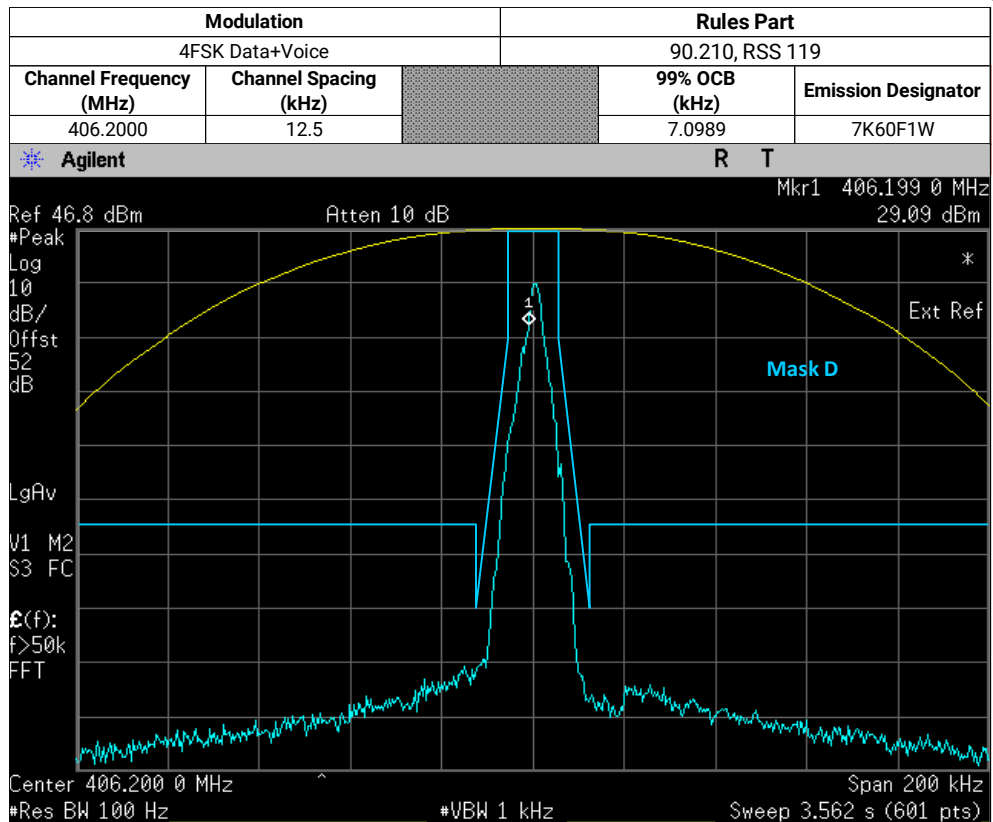


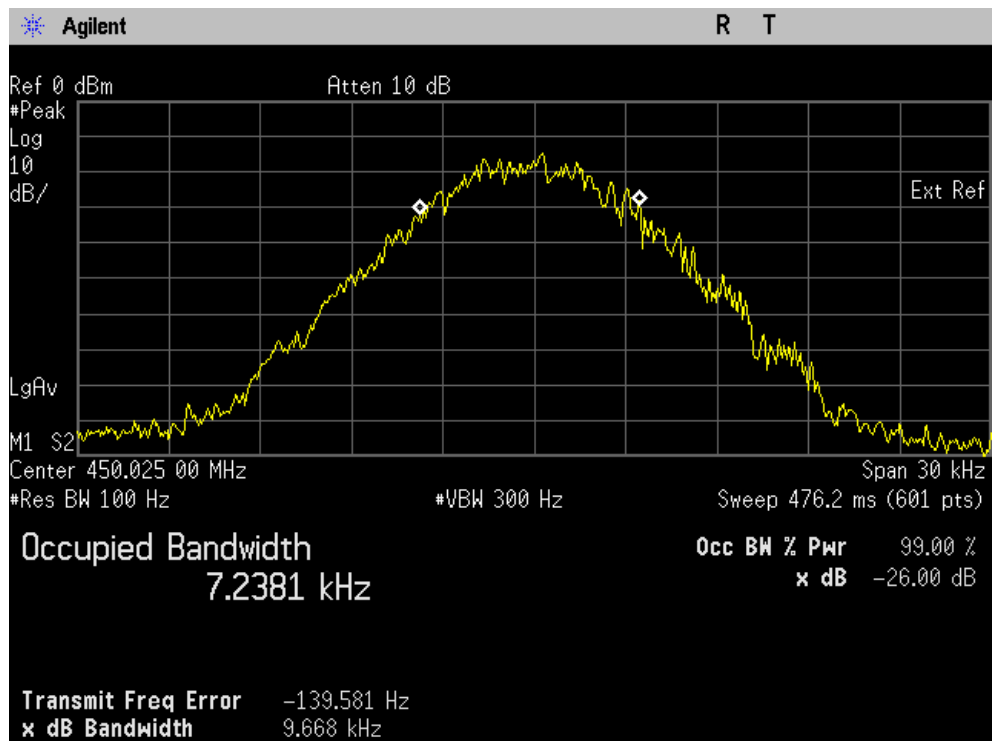
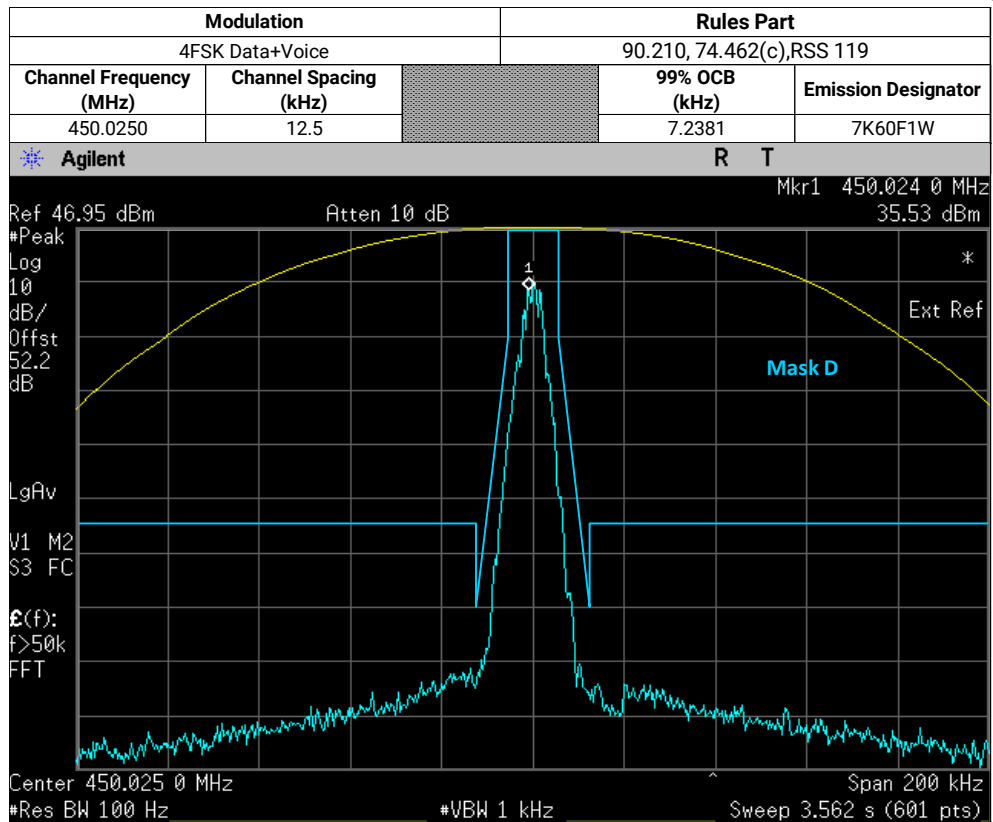




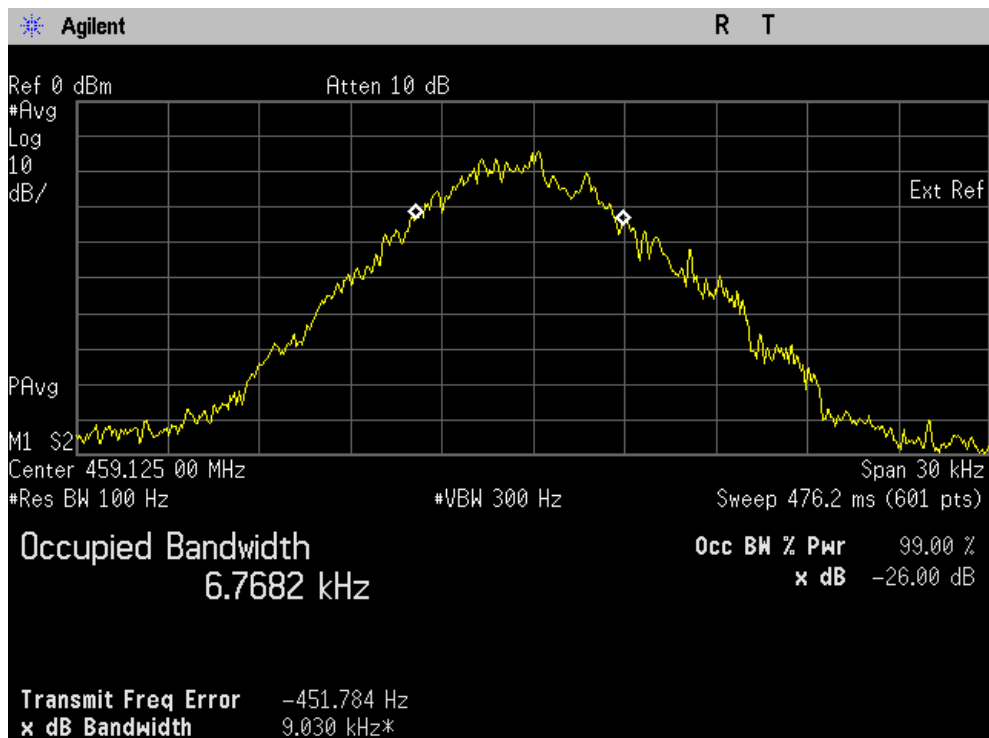
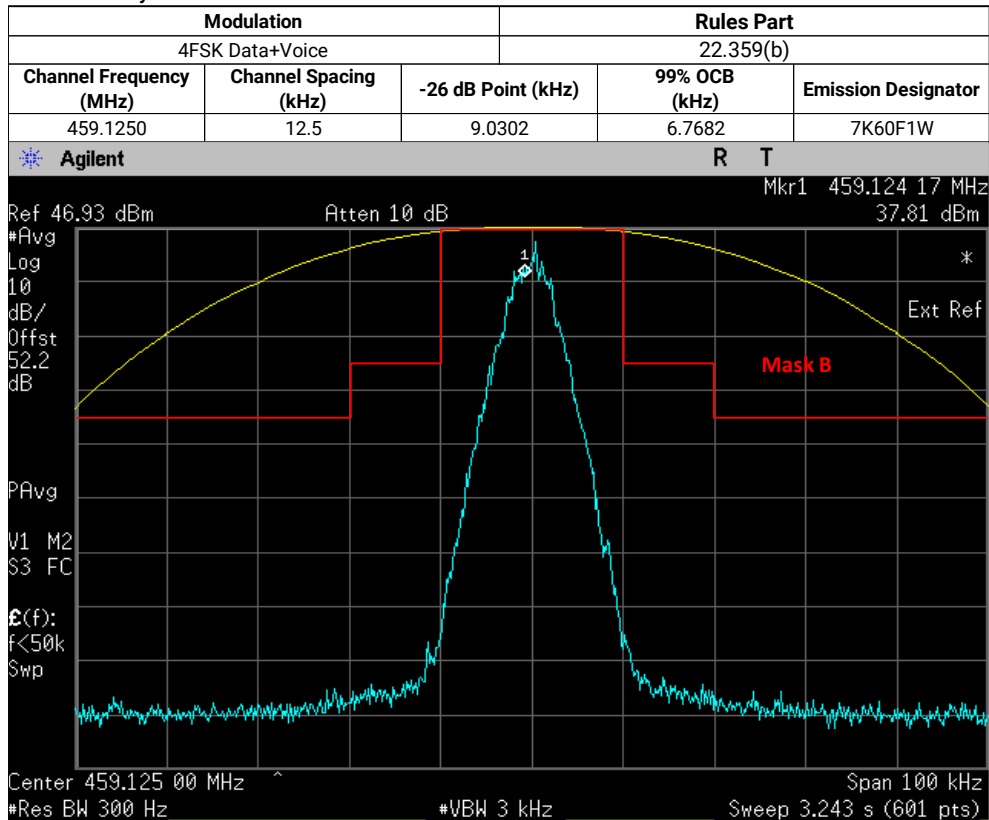
For Part 22 only







For Part 22 only

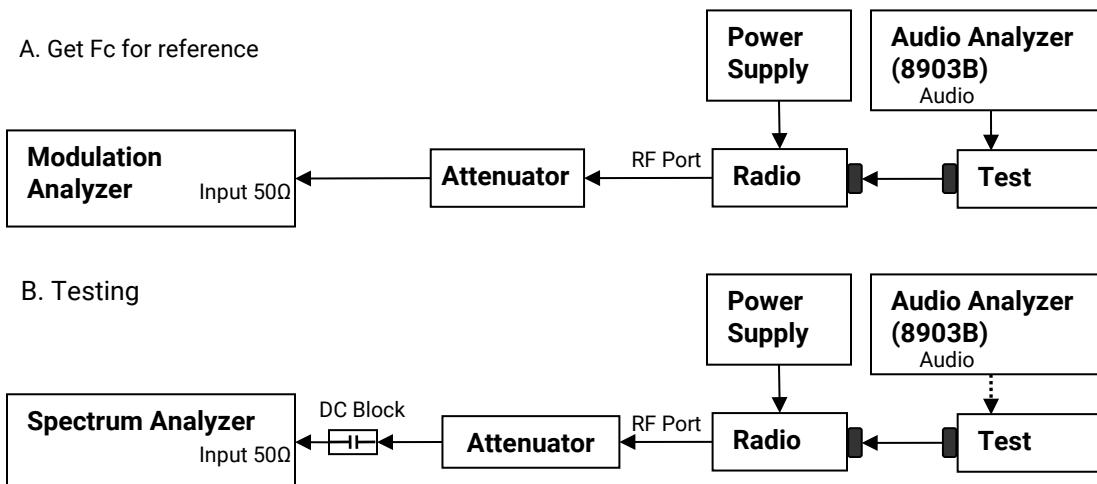


6.5.5. Test Limit

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)



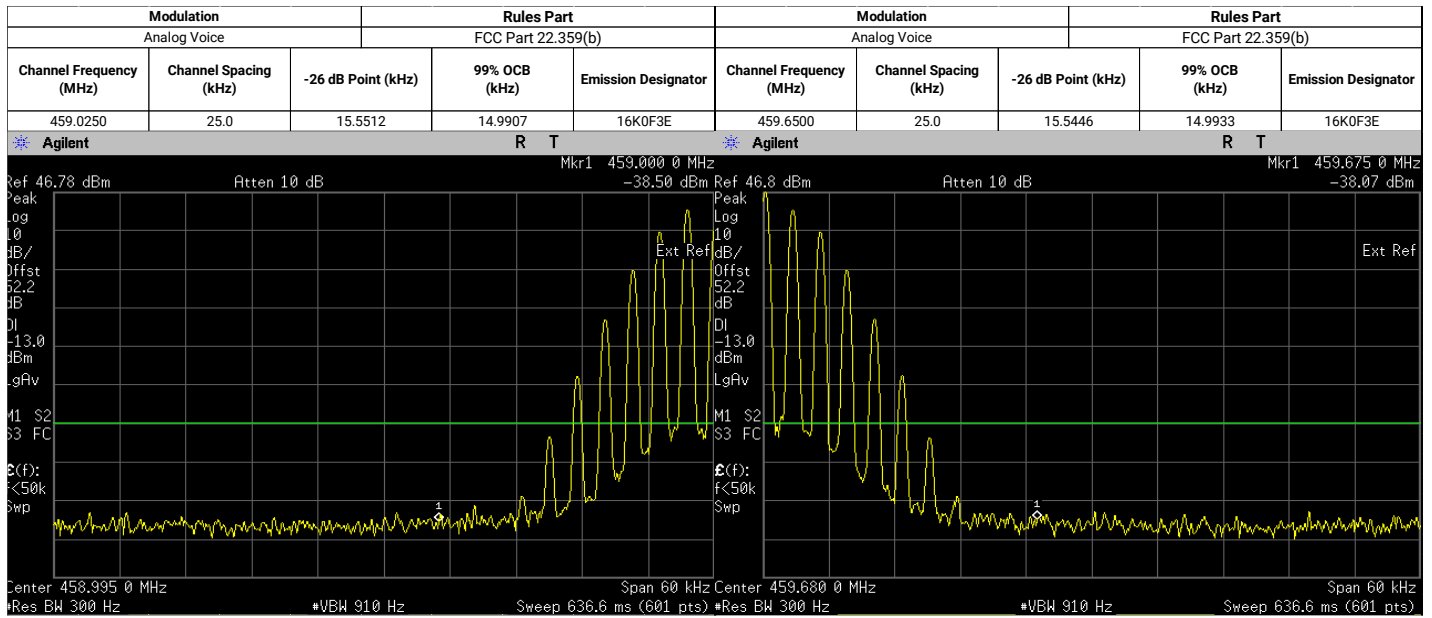
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. 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:**

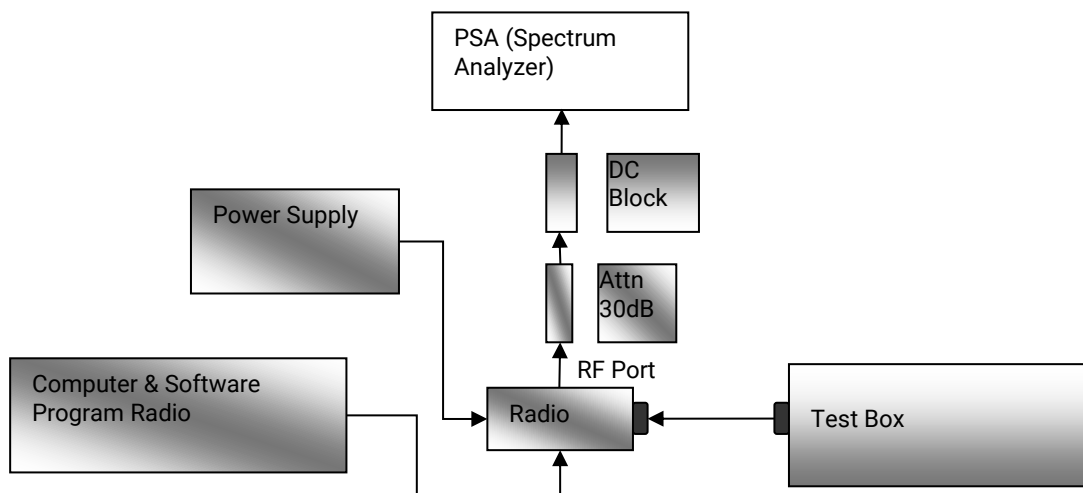
- For emission designator ending with F3E, 16K0F3E is the worst case and therefore only 16K0F3E will be shown.

6.6.2. Test Result (Analog)

Max Power



6.6.3. Test Setup (Digital)



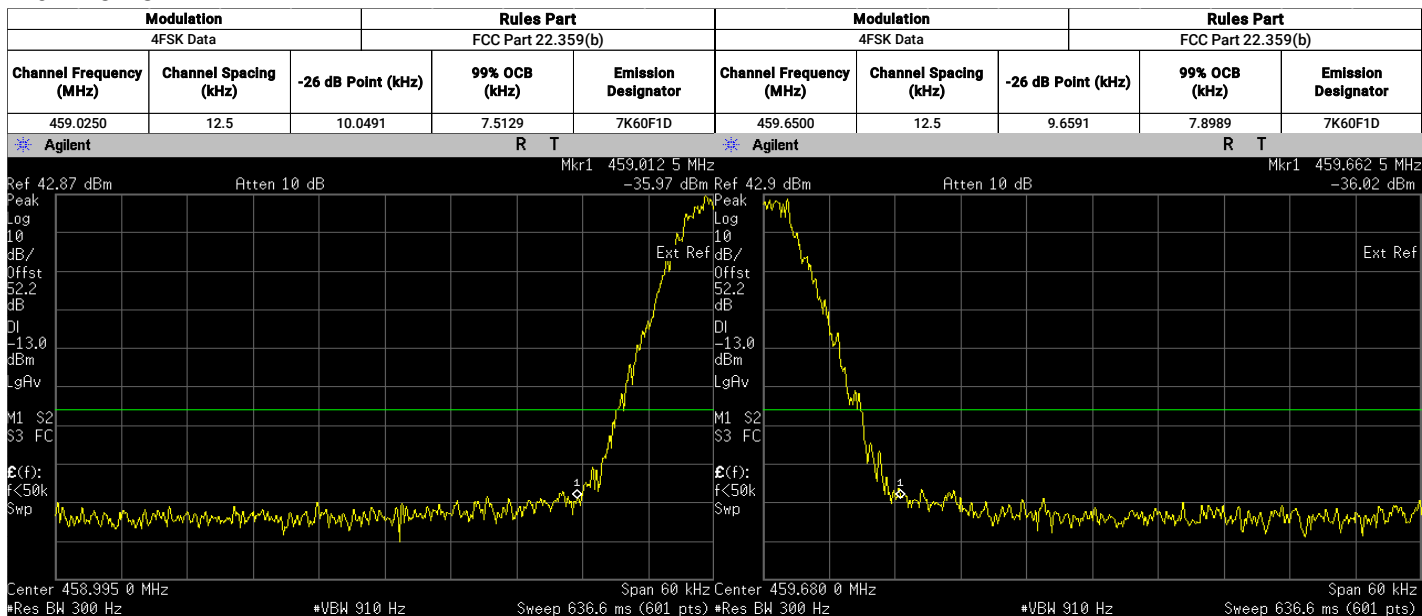
- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 4) Key in the 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:**

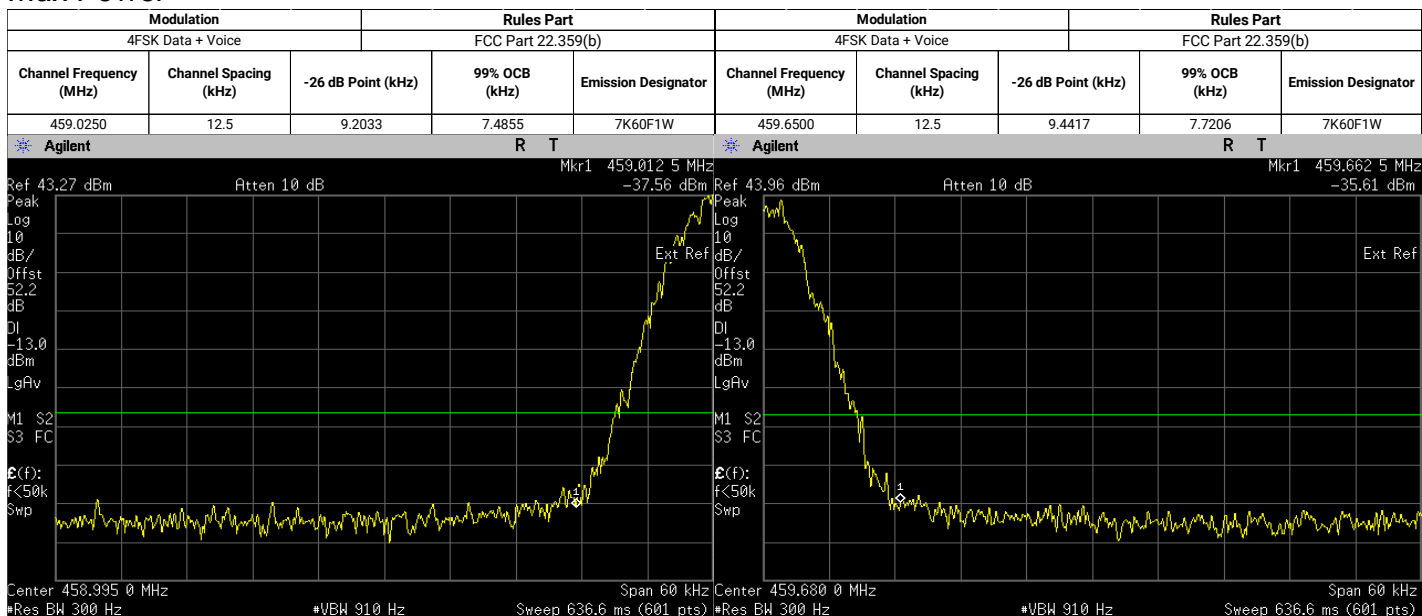
- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- For Digital Modulation, 12.5 kHz Data F1E & FXE would be the same. Therefore only measurements with F1E modulation shown below.

6.6.4. Test Result (Digital)

Max Power



Max Power

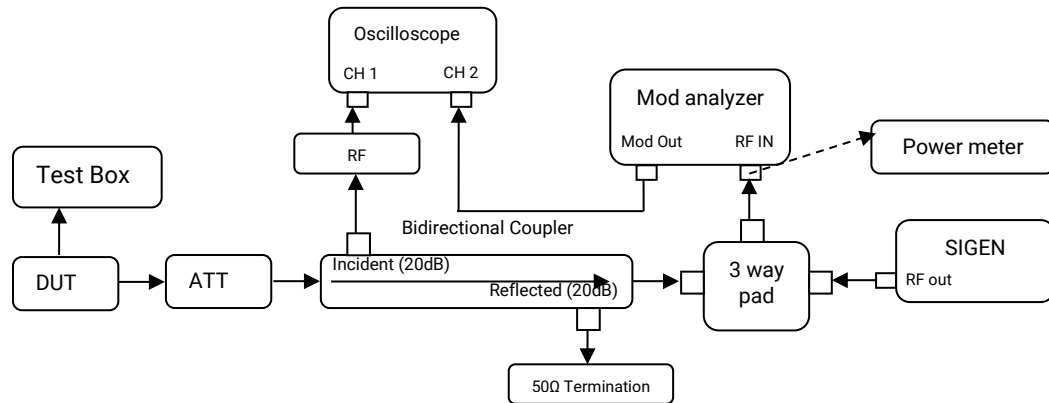


6.6.5. Test Limit

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

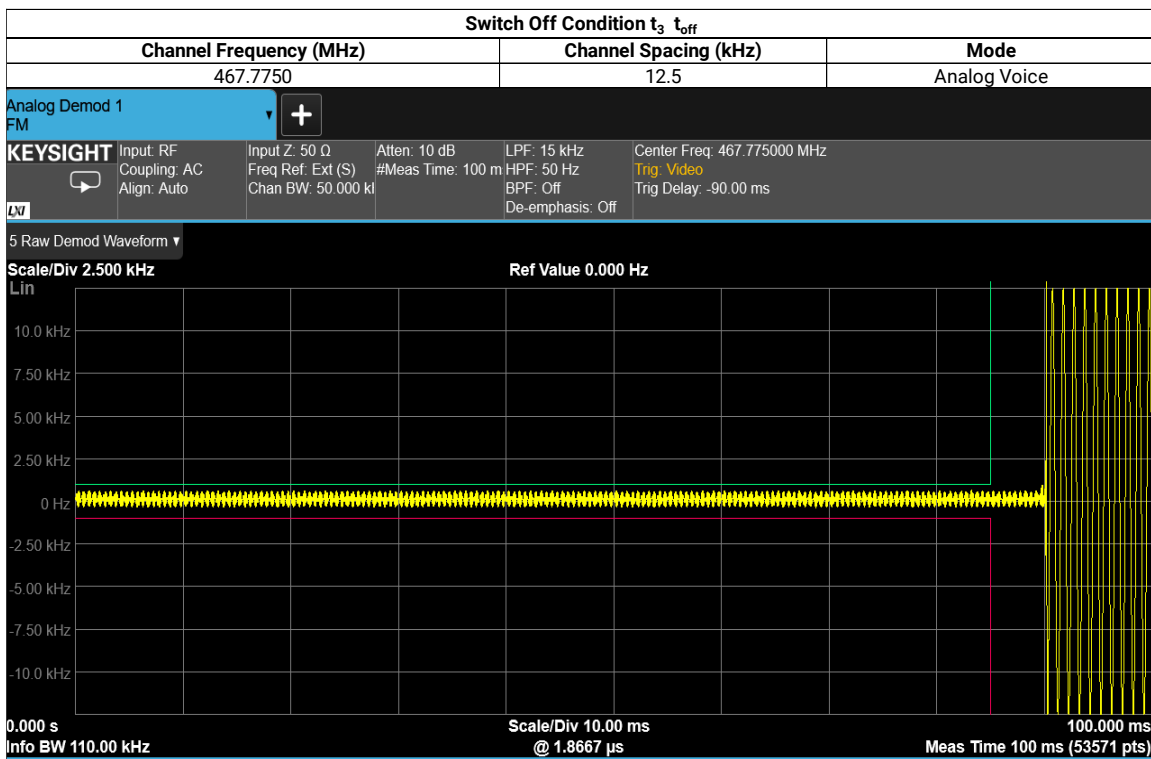
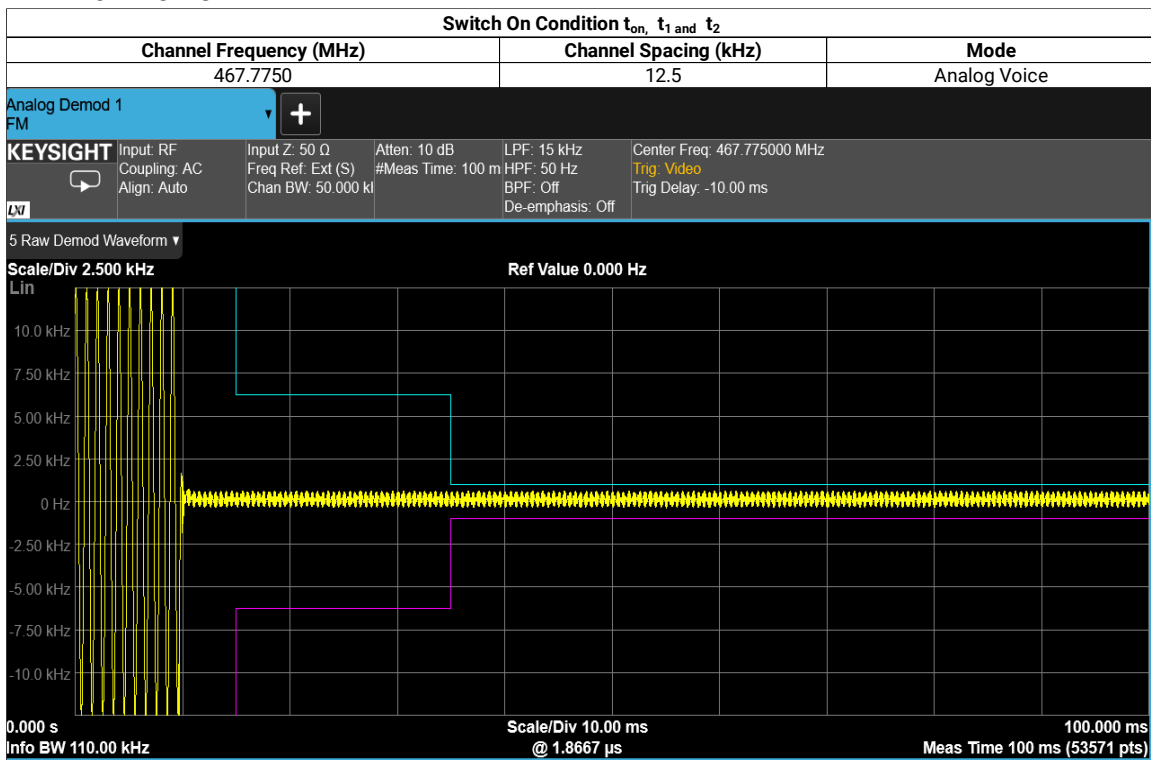
6.7.1. Test Setup



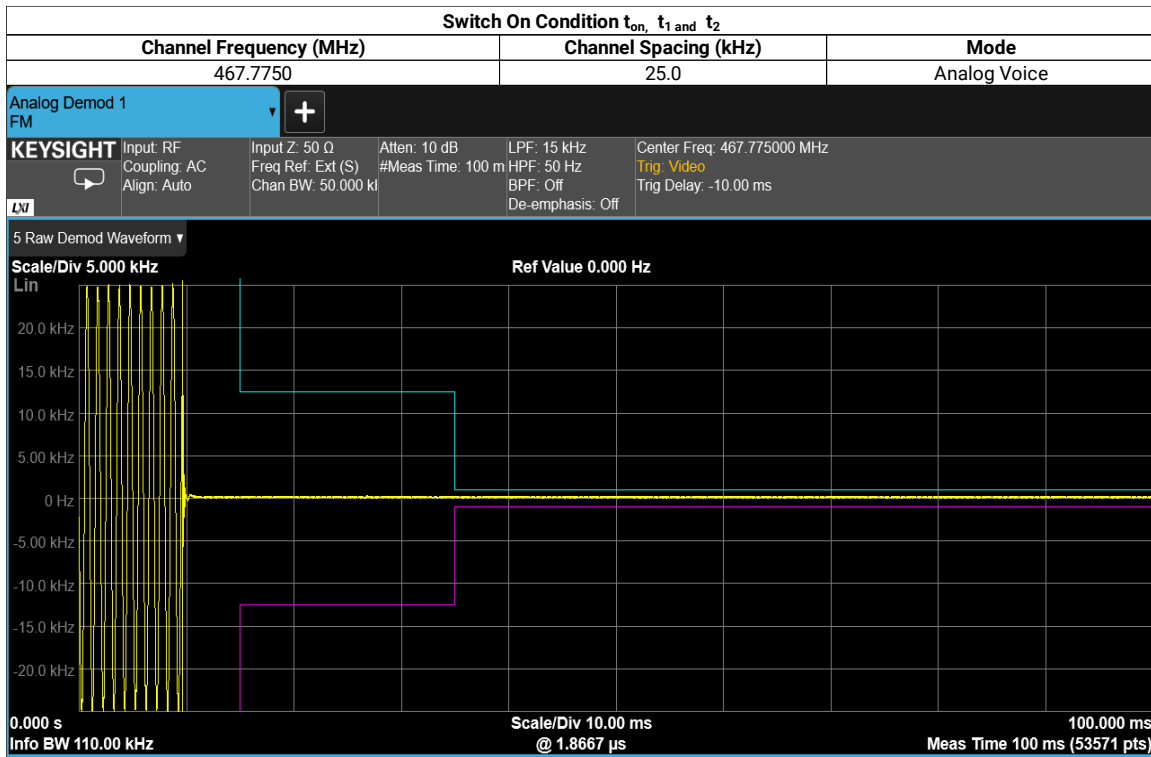
- 1) Connect the setup as figure above.
- 2) Path loss for the measurement included.
- 3) Set on Siggen with the assigned center frequency, internal 1 kHz FM tone.
FM Deviation: Analog 25kHz Channel Spacing = 25 kHz
 Analog 12.5 kHz Channel Spacing = 12.5 kHz
 C4FM = 12.5 kHz
- 4) Turn on 50 kHz high 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

Max Power



Not for FCC review
Max Power



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_{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.

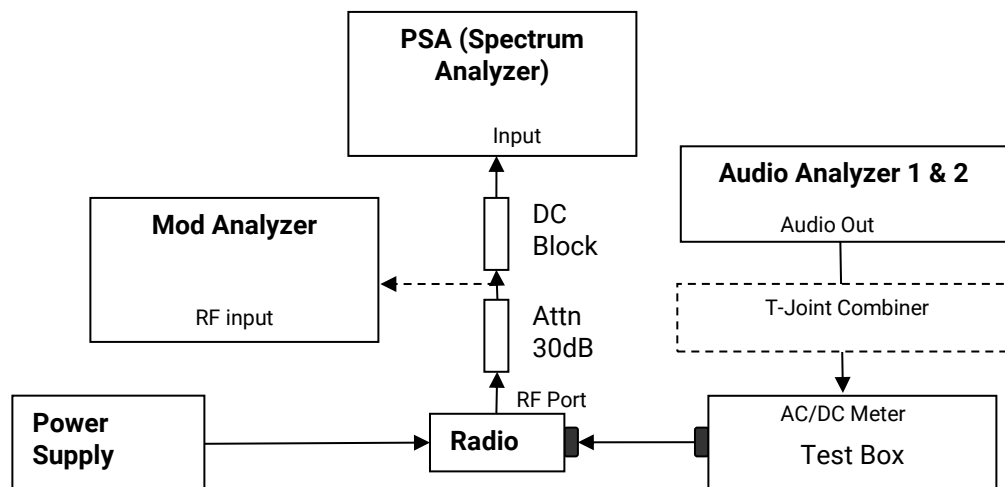
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

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

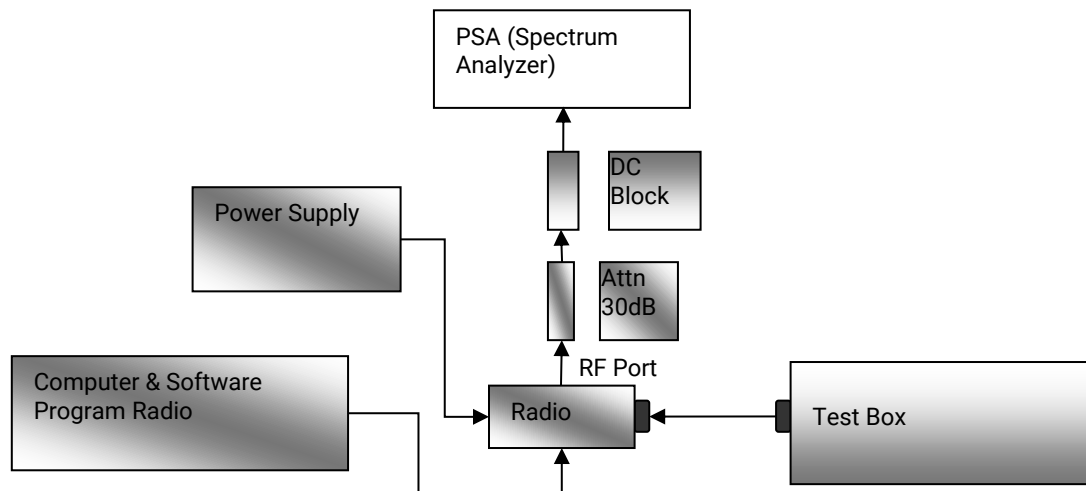
6.8.1. Test Setup (Analog)



- 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

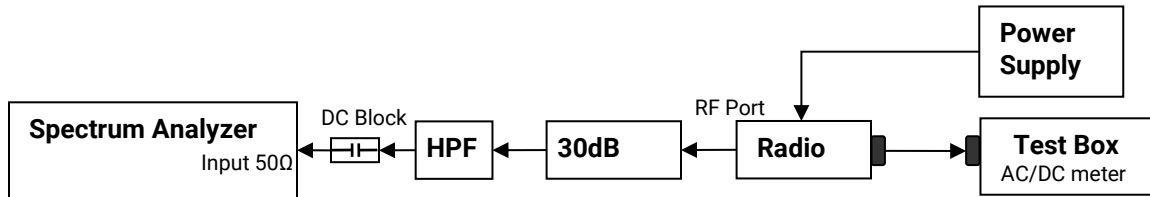
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band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

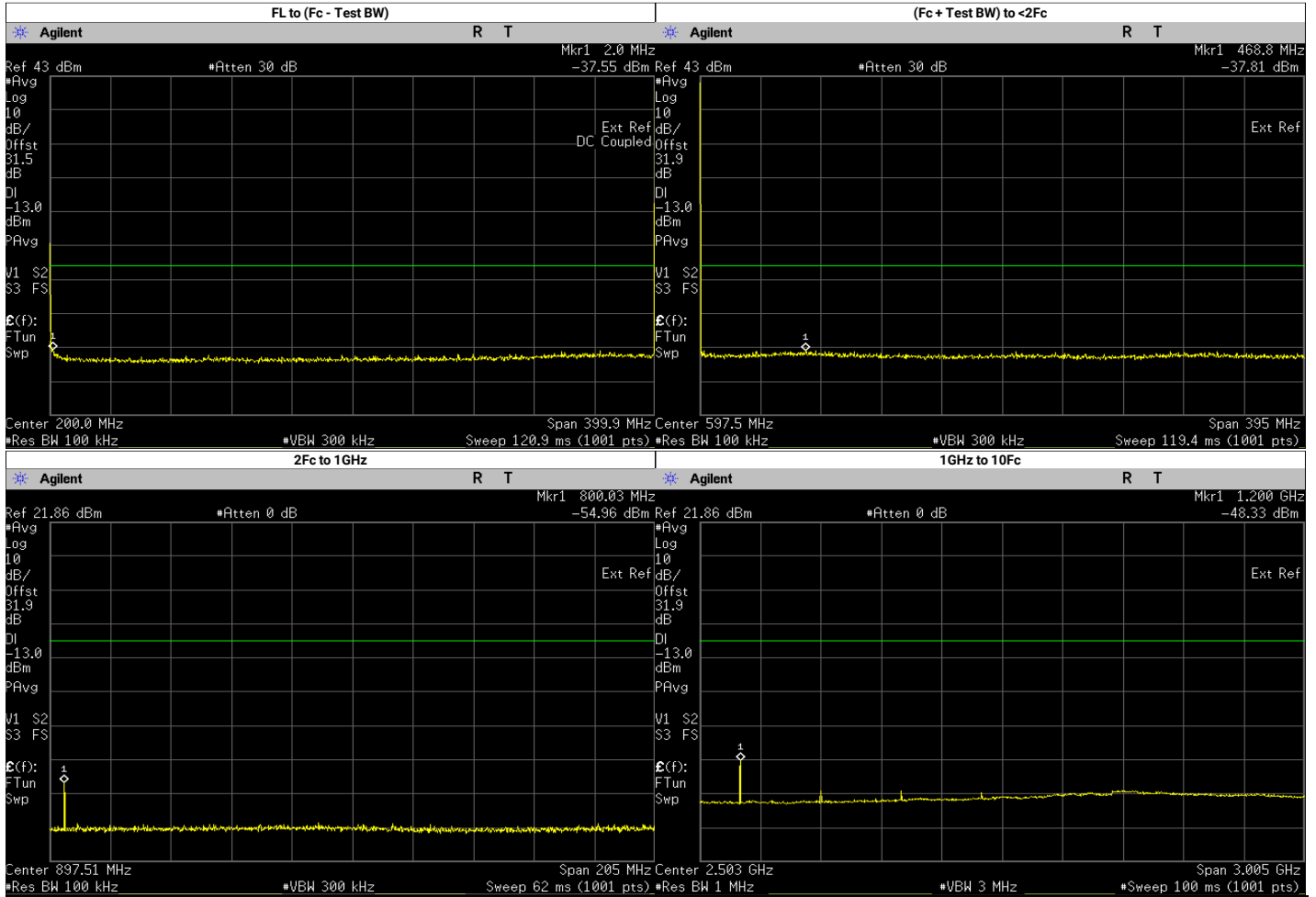
6.9.1. Test Setup



- 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.

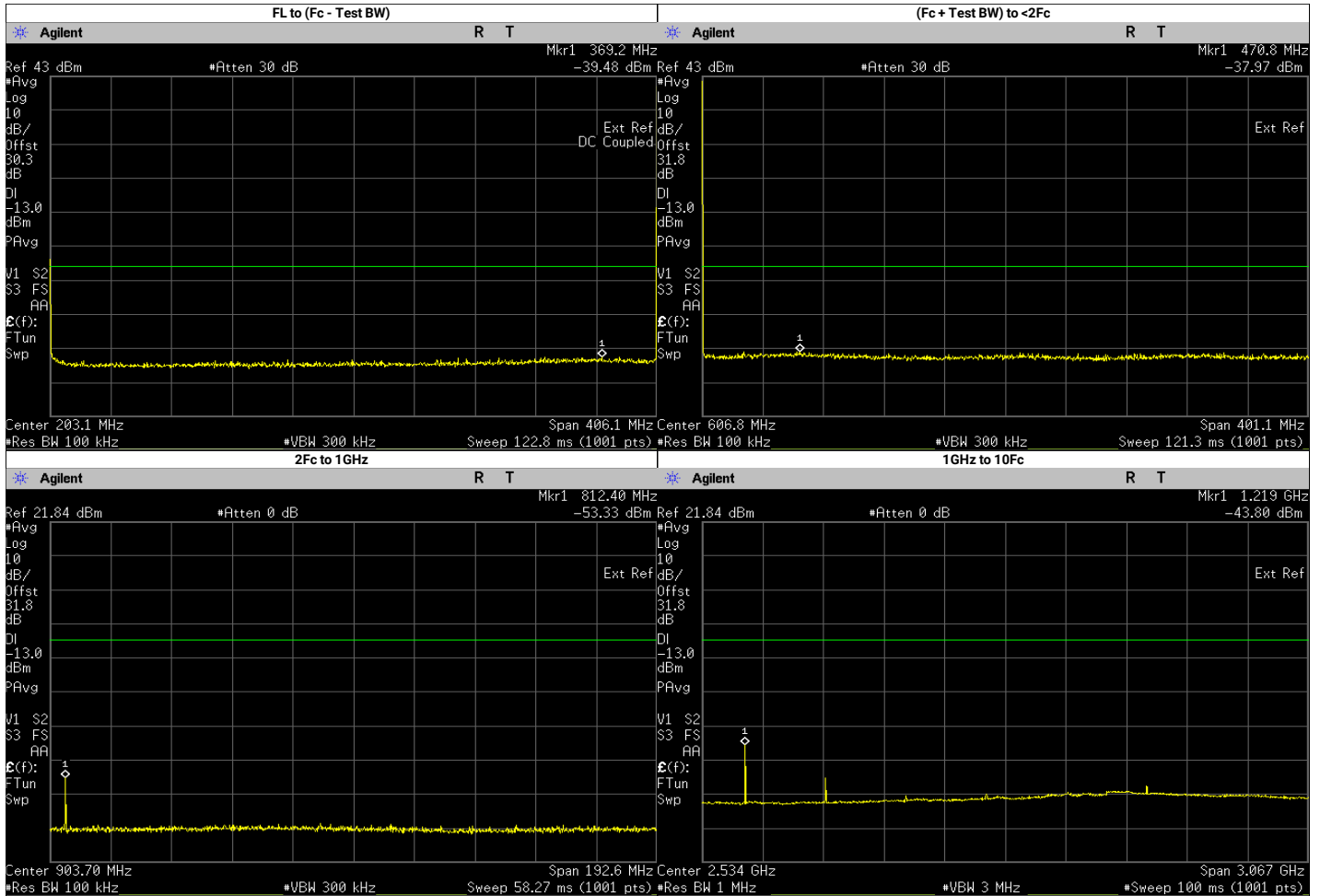
6.9.2. Test Result (Analog)

Analog: 400.0125 MHz, 25 kHz Channel Spacing, Max Power
Not for FCC review



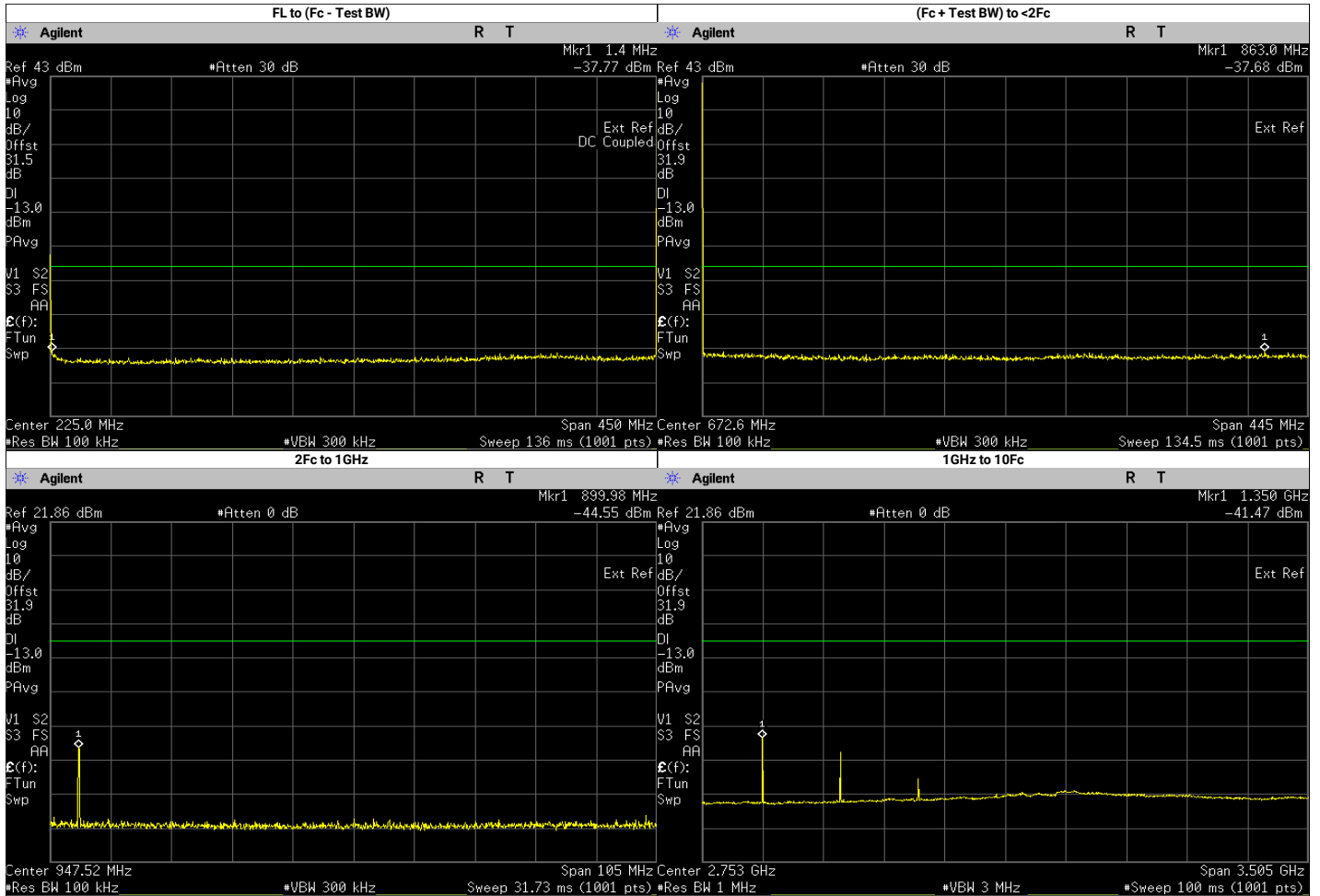
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.0025	-37.5500	-13	PASS
(Fc + Test BW) to <2Fc	468.7906	-37.8100	-13	PASS
2Fc to 1GHz	800.0250	-54.9555	-13	PASS
1GHz to 10Fc	1200.0370	-48.3300	-13	PASS
	1600.0500	-58.1354	-13	PASS
	2000.0620	-57.7457	-13	PASS
	2400.0750	-58.0393	-13	PASS
	2800.0880	-58.7187	-13	PASS
	3200.1000	-57.5430	-13	PASS
	3600.1130	-58.6360	-13	PASS
	4000.1250	-58.9790	-13	PASS

Analog: 406.2000 MHz, 25 kHz Channel Spacing, Max Power
Not for FCC review



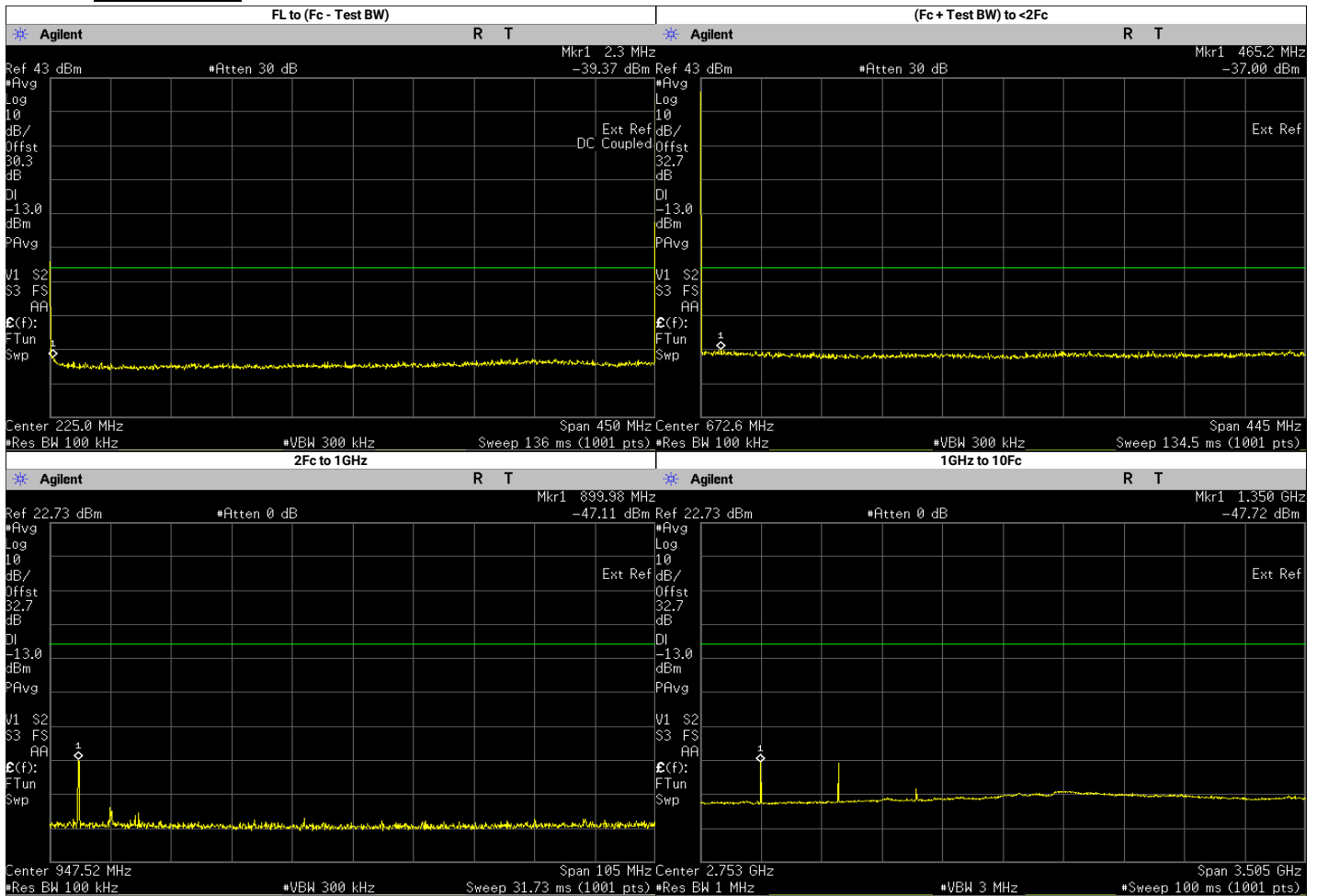
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	369.2000	-39.4830	-13	PASS
(Fc + Test BW) to <2Fc	470.8399	-37.9700	-13	PASS
2Fc to 1GHz	812.4000	-53.3300	-13	PASS
1GHz to 10Fc	1218.6000	-43.8000	-13	PASS
	1624.8000	-55.1847	-13	PASS
	2031.0000	-58.8023	-13	PASS
	2437.2000	-58.4025	-13	PASS
	2843.4000	-58.0109	-13	PASS
	3249.6000	-55.9121	-13	PASS
	3655.8000	-58.4779	-13	PASS
	4062.0000	-59.3525	-13	PASS

Analog: 450.0250 MHz, 25 kHz Channel Spacing, Max Power For Part 74



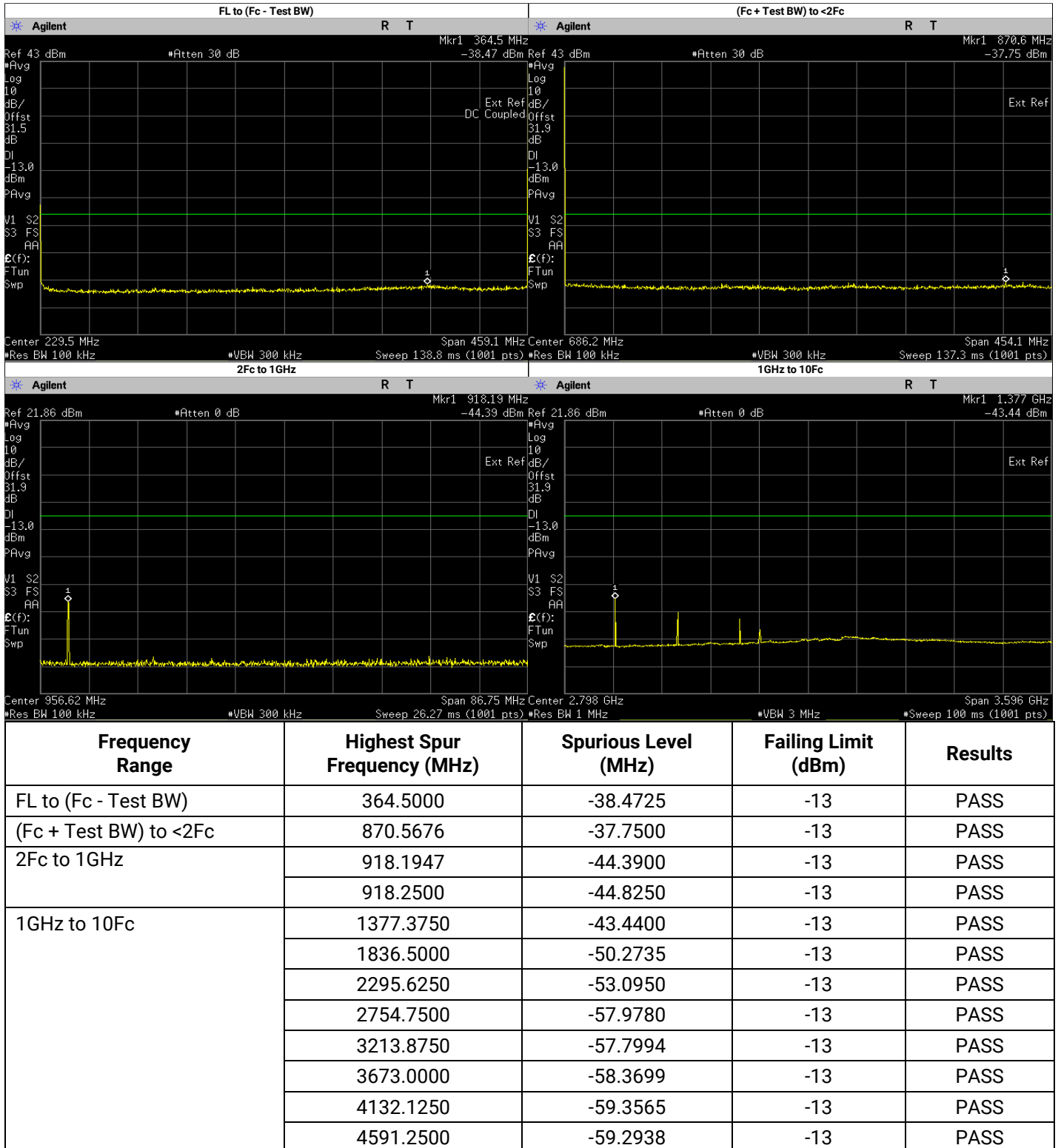
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.4000	-37.7660	-13	PASS
(Fc + Test BW) to <2Fc	863.0123	-37.6800	-13	PASS
2Fc to 1GHz	899.9827	-44.5500	-13	PASS
	900.0500	-44.6674	-13	PASS
1GHz to 10Fc	1350.0750	-41.4700	-13	PASS
	1800.1000	-49.0964	-13	PASS
	2250.1250	-55.1190	-13	PASS
	2700.1500	-58.1795	-13	PASS
	3150.1750	-57.2541	-13	PASS
	3600.2000	-58.5393	-13	PASS
	4050.2250	-59.2141	-13	PASS

Analog: 450.0250 MHz, 25 kHz Channel Spacing, Low Power **For Part 74**

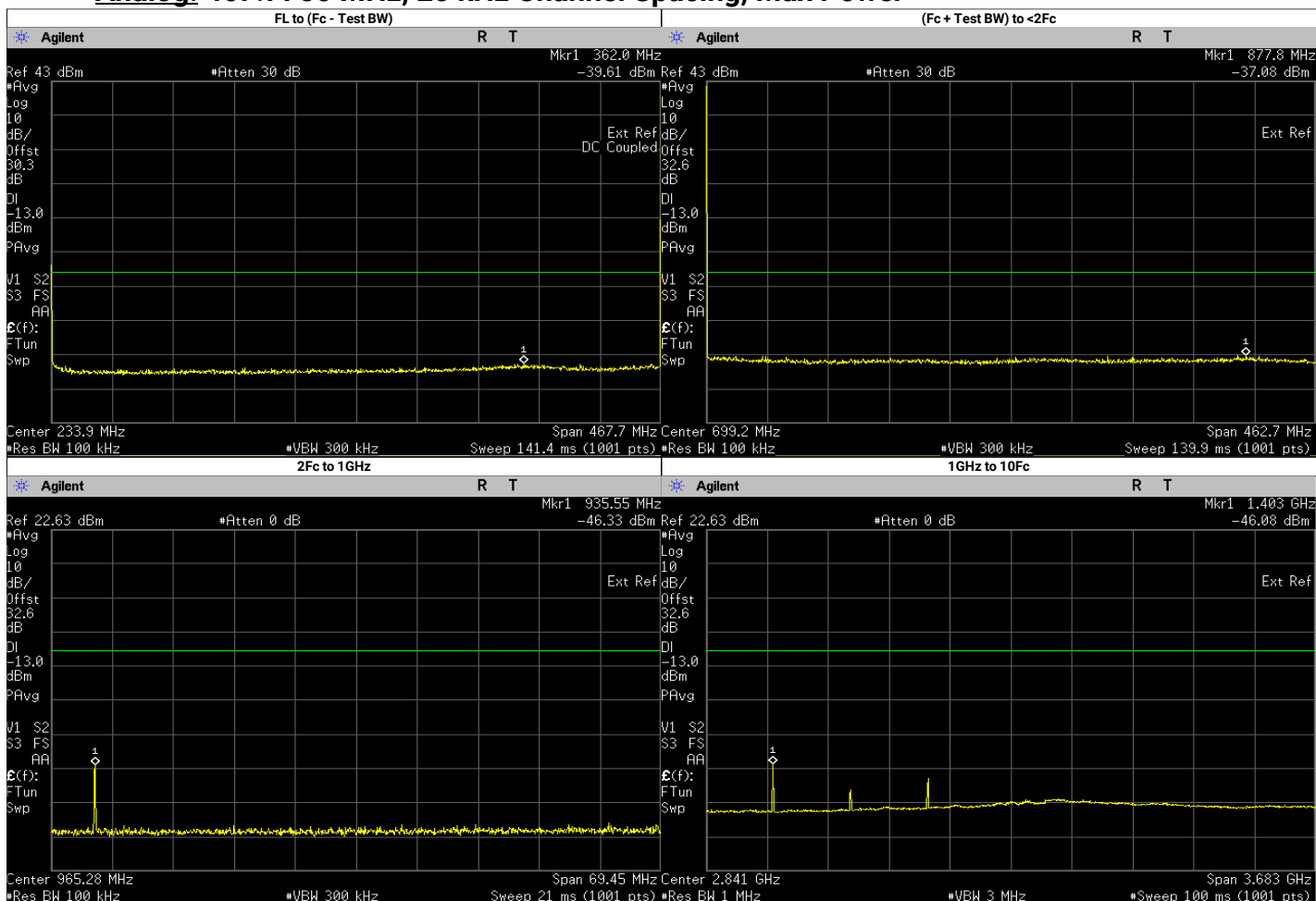


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.3000	-39.3660	-13	PASS
(Fc + Test BW) to <2Fc	465.2107	-37.0000	-13	PASS
2Fc to 1GHz	899.9827	-47.1100	-13	PASS
	900.0500	-47.2910	-13	PASS
1GHz to 10Fc	1350.0750	-47.7200	-13	PASS
	1800.1000	-50.7892	-13	PASS
	2250.1250	-56.5336	-13	PASS
	2700.1500	-57.8941	-13	PASS
	3150.1750	-56.5934	-13	PASS
	3600.2000	-57.8060	-13	PASS
	4050.2250	-58.4194	-13	PASS

Analog: 459.1250 MHz, 25 kHz Channel Spacing, Max Power For Part 22

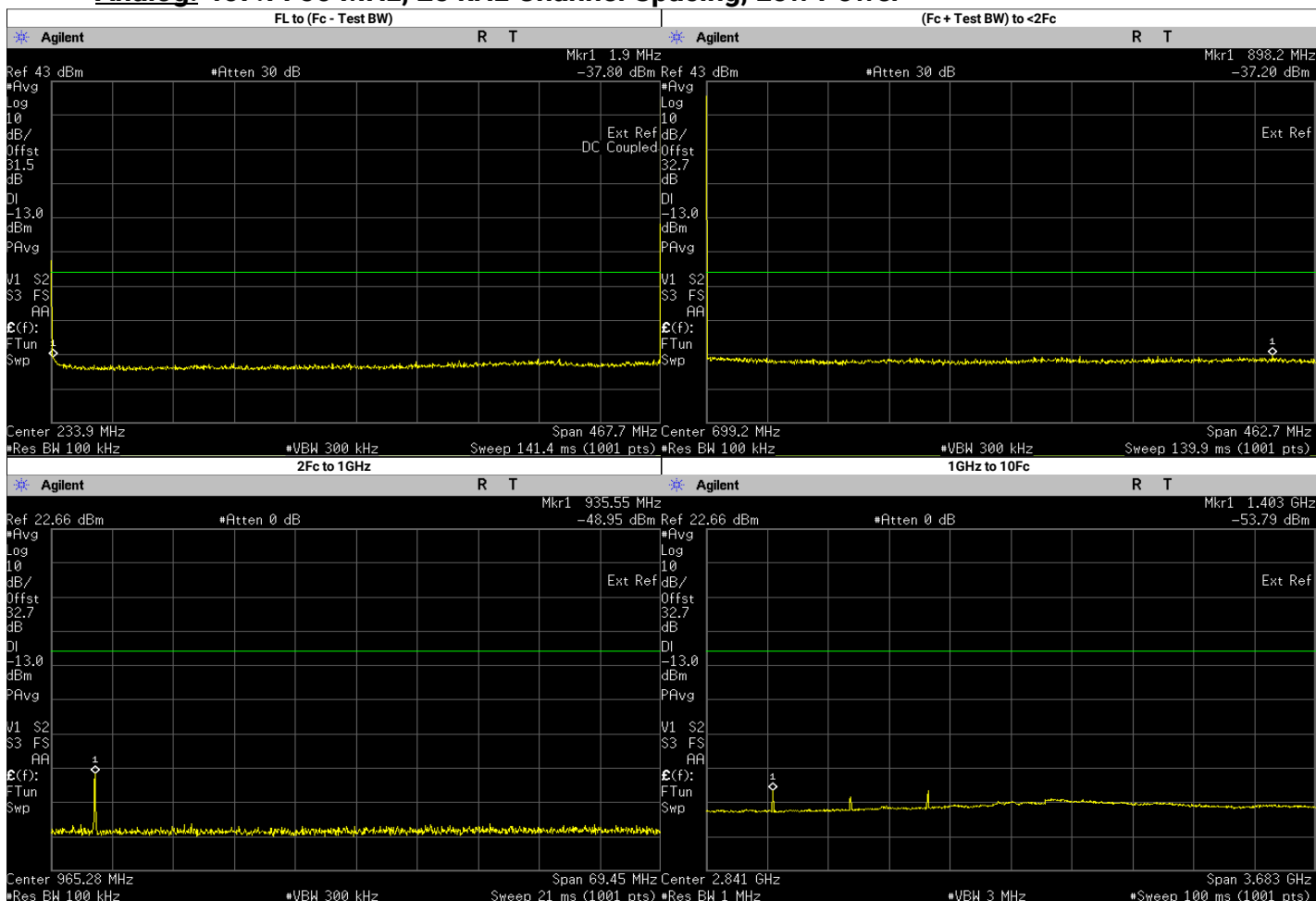


Analog: 467.7750 MHz, 25 kHz Channel Spacing, Max Power



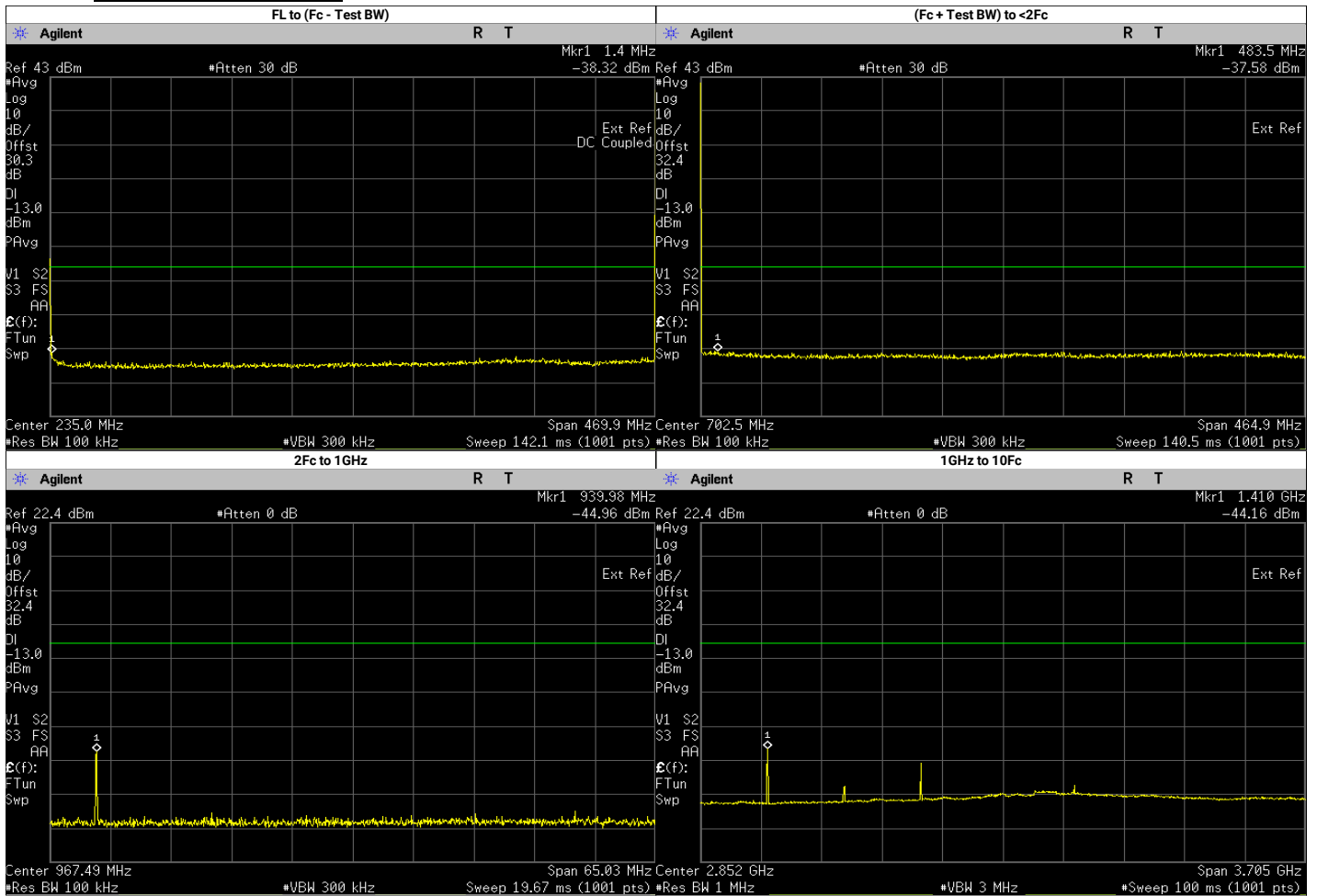
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	362.0000	-39.6110	-13	PASS
(Fc + Test BW) to <2Fc	877.8001	-37.0800	-13	PASS
2Fc to 1GHz	935.5500	-46.3300	-13	PASS
1GHz to 10Fc	1403.3250	-46.0800	-13	PASS
	1871.1000	-54.2237	-13	PASS
	2338.8750	-51.2601	-13	PASS
	2806.6500	-57.8057	-13	PASS
	3274.4250	-56.6973	-13	PASS
	3742.2000	-57.8646	-13	PASS
	4209.9750	-58.8721	-13	PASS
	4677.7500	-58.7788	-13	PASS

Analog: 467.7750 MHz, 25 kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.9000	-37.8030	-13	PASS
(Fc + Test BW) to <2Fc	898.1597	-37.2000	-13	PASS
2Fc to 1GHz	935.5500	-48.9470	-13	PASS
1GHz to 10Fc	1403.3250	-53.7900	-13	PASS
	1871.1000	-55.9553	-13	PASS
	2338.8750	-54.6059	-13	PASS
	2806.6500	-57.7141	-13	PASS
	3274.4250	-56.5713	-13	PASS
	3742.2000	-57.6555	-13	PASS
	4209.9750	-58.7970	-13	PASS
	4677.7500	-58.5830	-13	PASS

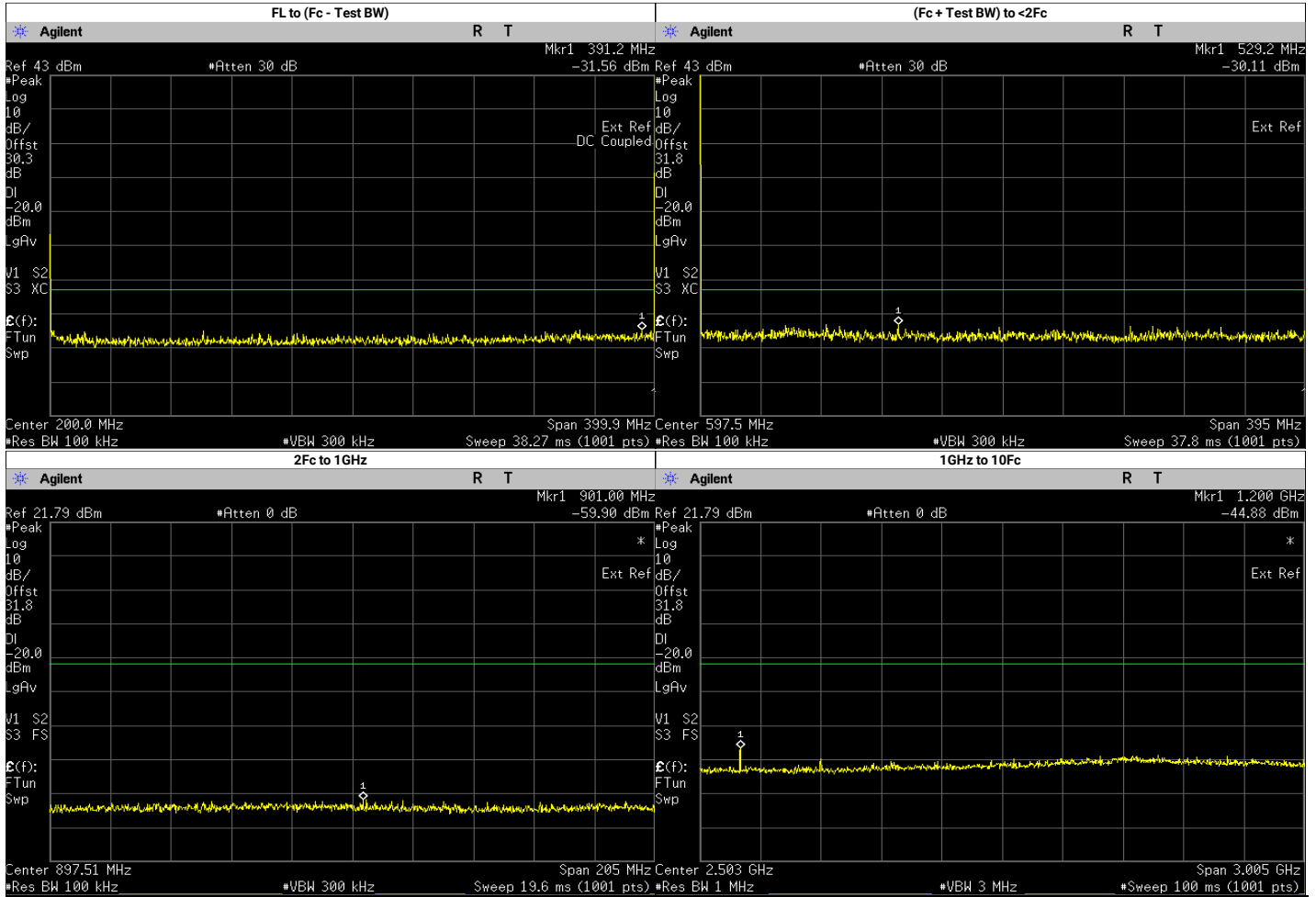
Analog: 469.9875 MHz, 25 kHz Channel Spacing, Max Power
Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.4000	-38.3190	-13	PASS
(Fc + Test BW) to <2Fc	483.5273	-37.5800	-13	PASS
2Fc to 1GHz	939.9750	-44.9600	-13	PASS
1GHz to 10Fc	1409.9630	-44.1600	-13	PASS
	1879.9500	-55.2153	-13	PASS
	2349.9370	-51.1636	-13	PASS
	2819.9250	-57.6436	-13	PASS
	3289.9120	-55.0615	-13	PASS
	3759.9000	-57.8202	-13	PASS
	4229.8870	-59.0900	-13	PASS
	4699.8750	-58.8973	-13	PASS

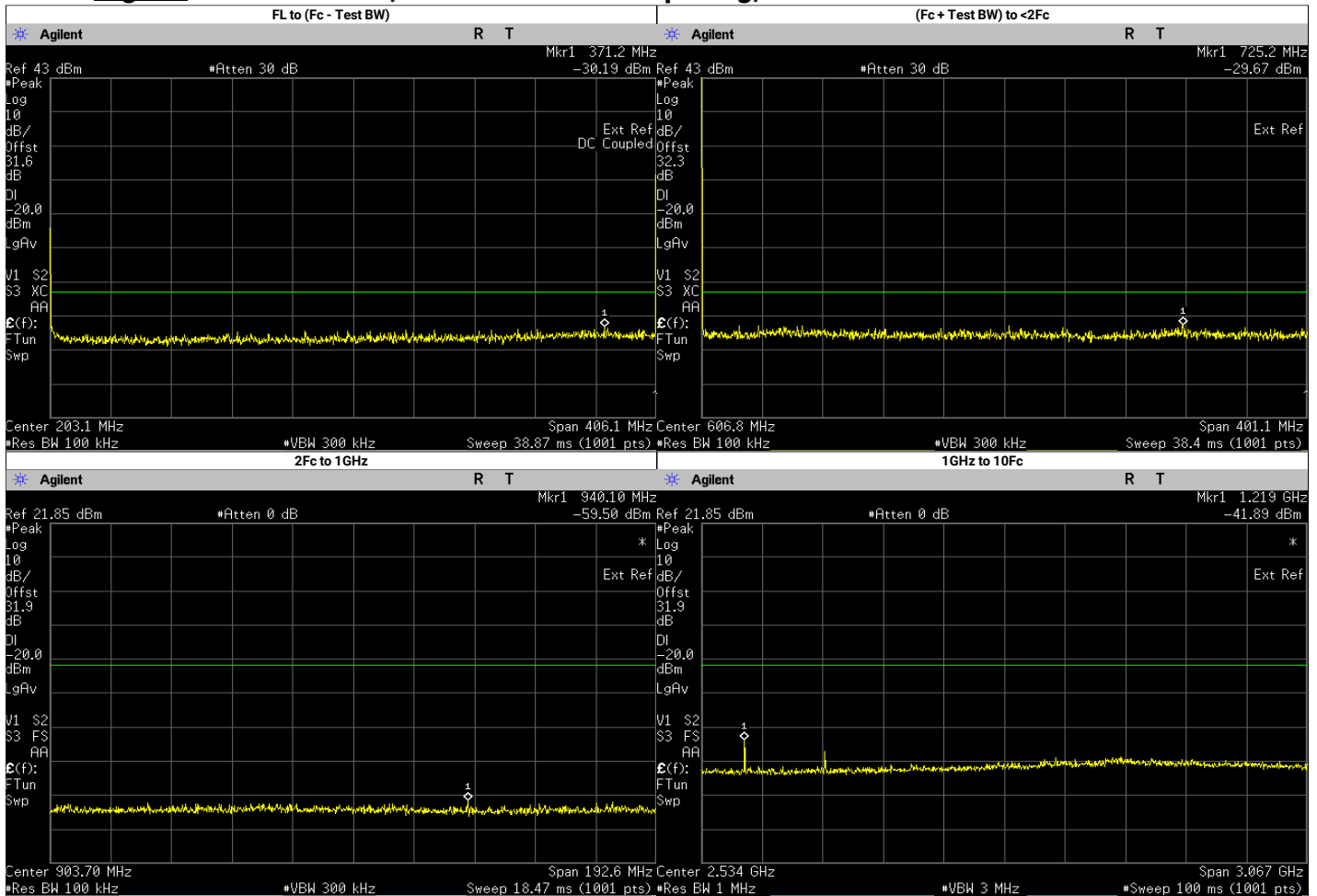
6.9.3. Test Result (Digital)

Digital: 400.0125 MHz, 12.5 kHz Channel Spacing, Max Power Not for FCC review



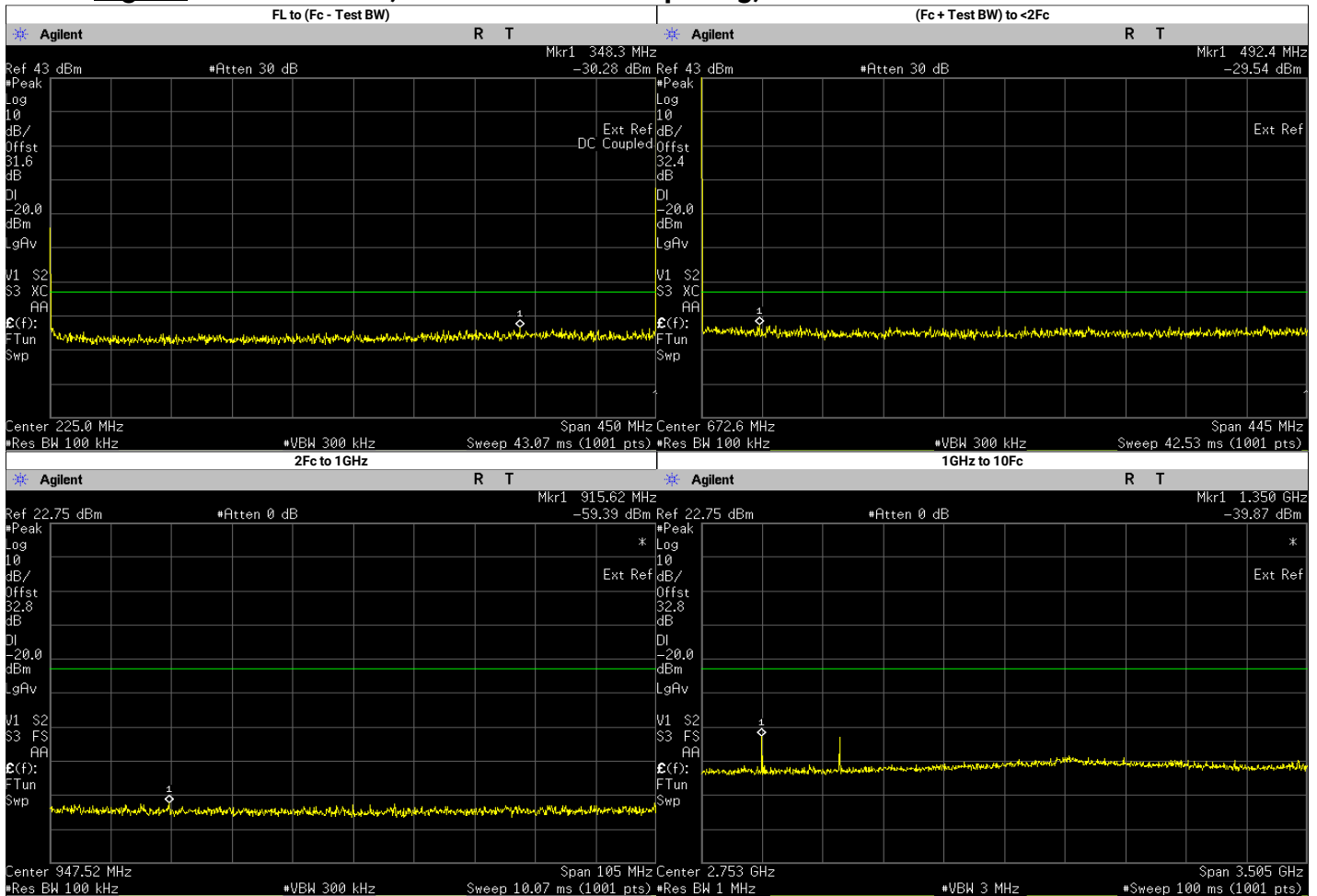
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	391.2000	-31.5600	-20	PASS
(Fc + Test BW) to <2Fc	529.2000	-30.1100	-20	PASS
2Fc to 1GHz	900.9971	-59.9000	-20	PASS
	800.0250	-61.6165	-20	PASS
1GHz to 10Fc	1200.0370	-44.8800	-20	PASS
	1600.0500	-48.4231	-20	PASS
	2000.0620	-50.5438	-20	PASS
	2400.0750	-50.7867	-20	PASS
	2800.0880	-48.0149	-20	PASS
	3200.1000	-47.8849	-20	PASS
	3600.1130	-49.3798	-20	PASS
	4000.1250	-48.5572	-20	PASS

Digital: 406.2000 MHz, 12.5 kHz Channel Spacing, Max Power



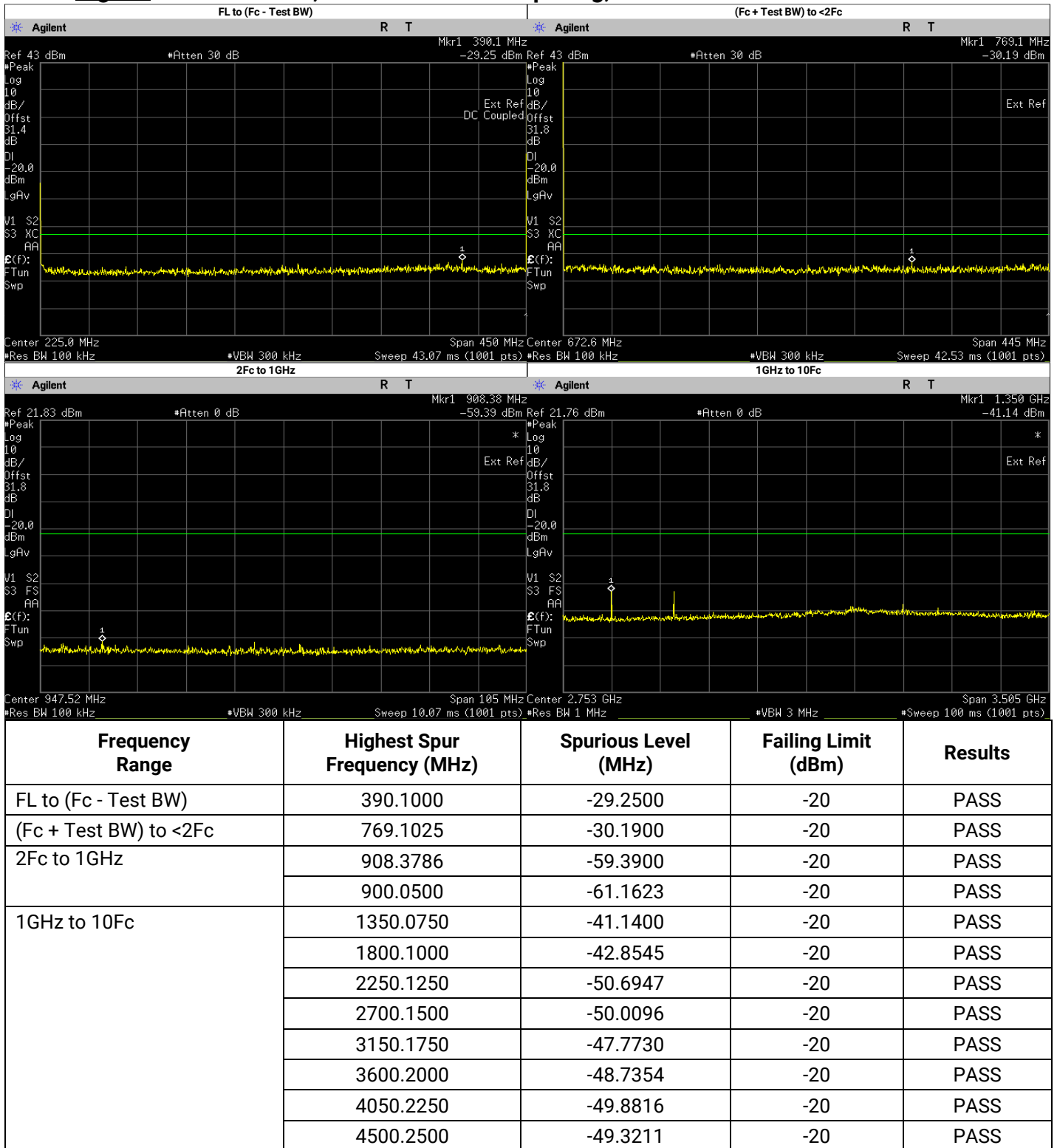
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	371.2000	-30.1900	-20	PASS
(Fc + Test BW) to <2Fc	725.2120	-29.6700	-20	PASS
2Fc to 1GHz	940.1014	-59.5000	-20	PASS
	812.4000	-61.8636	-20	PASS
1GHz to 10Fc	1218.6000	-41.8900	-20	PASS
	1624.8000	-46.0478	-20	PASS
	2031.0000	-50.7852	-20	PASS
	2437.2000	-49.9729	-20	PASS
	2843.4000	-49.2116	-20	PASS
	3249.6000	-49.1695	-20	PASS
	3655.8000	-48.6638	-20	PASS
	4062.0000	-50.3538	-20	PASS

Digital: 450.0250 MHz, 12.5 kHz Channel Spacing, Max Power

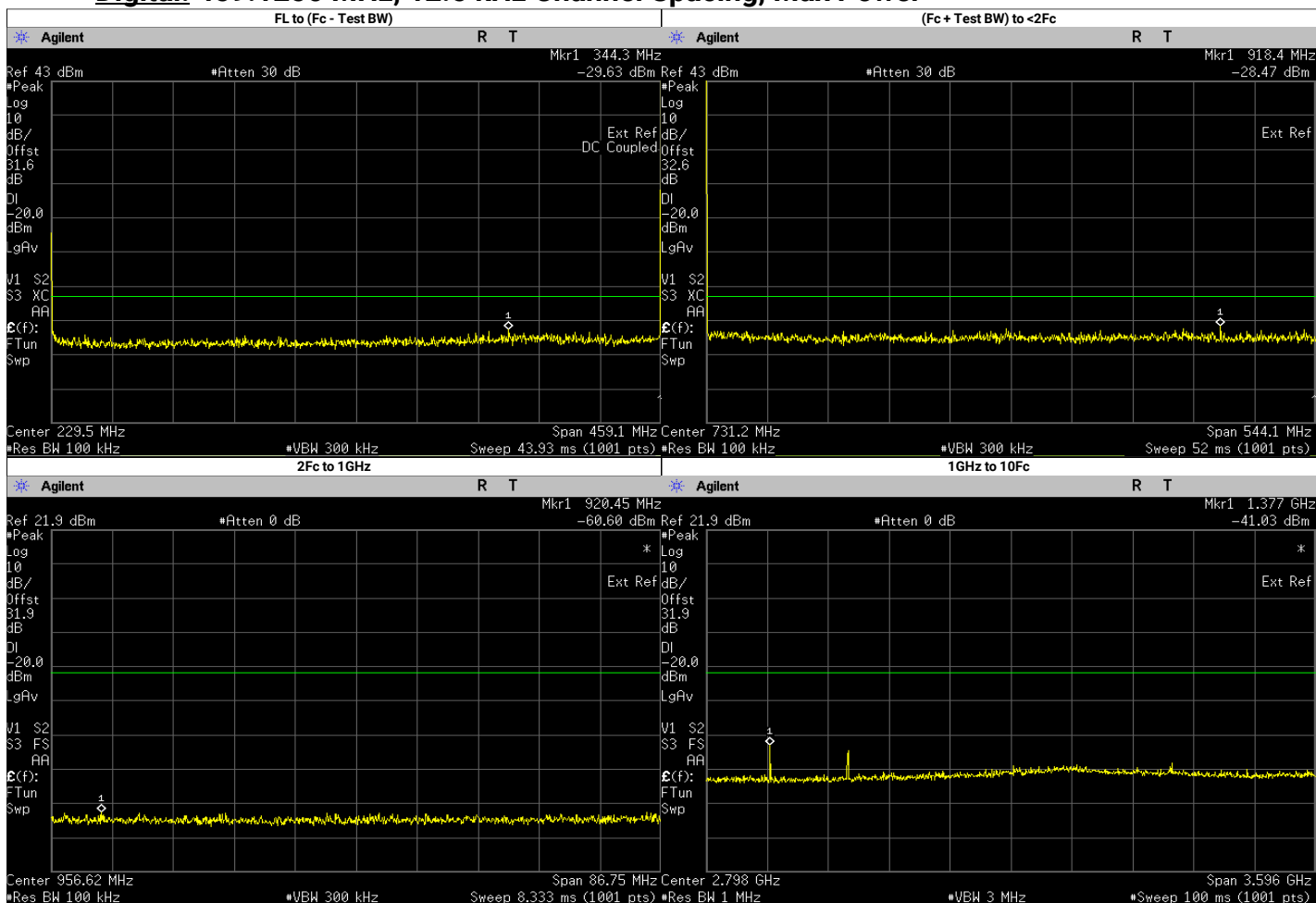


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	348.3000	-30.2800	-20	PASS
(Fc + Test BW) to <2Fc	492.4318	-29.5400	-20	PASS
2Fc to 1GHz	915.6202	-59.3900	-20	PASS
	900.0500	-60.2921	-20	PASS
1GHz to 10Fc	1350.0750	-39.8700	-20	PASS
	1800.1000	-41.9054	-20	PASS
	2250.1250	-49.8839	-20	PASS
	2700.1500	-48.9284	-20	PASS
	3150.1750	-46.4238	-20	PASS
	3600.2000	-48.3790	-20	PASS
	4050.2250	-48.7751	-20	PASS
	4500.2500	-49.2459	-20	PASS

Digital: 450.0250 MHz, 12.5 kHz Channel Spacing, Low Power

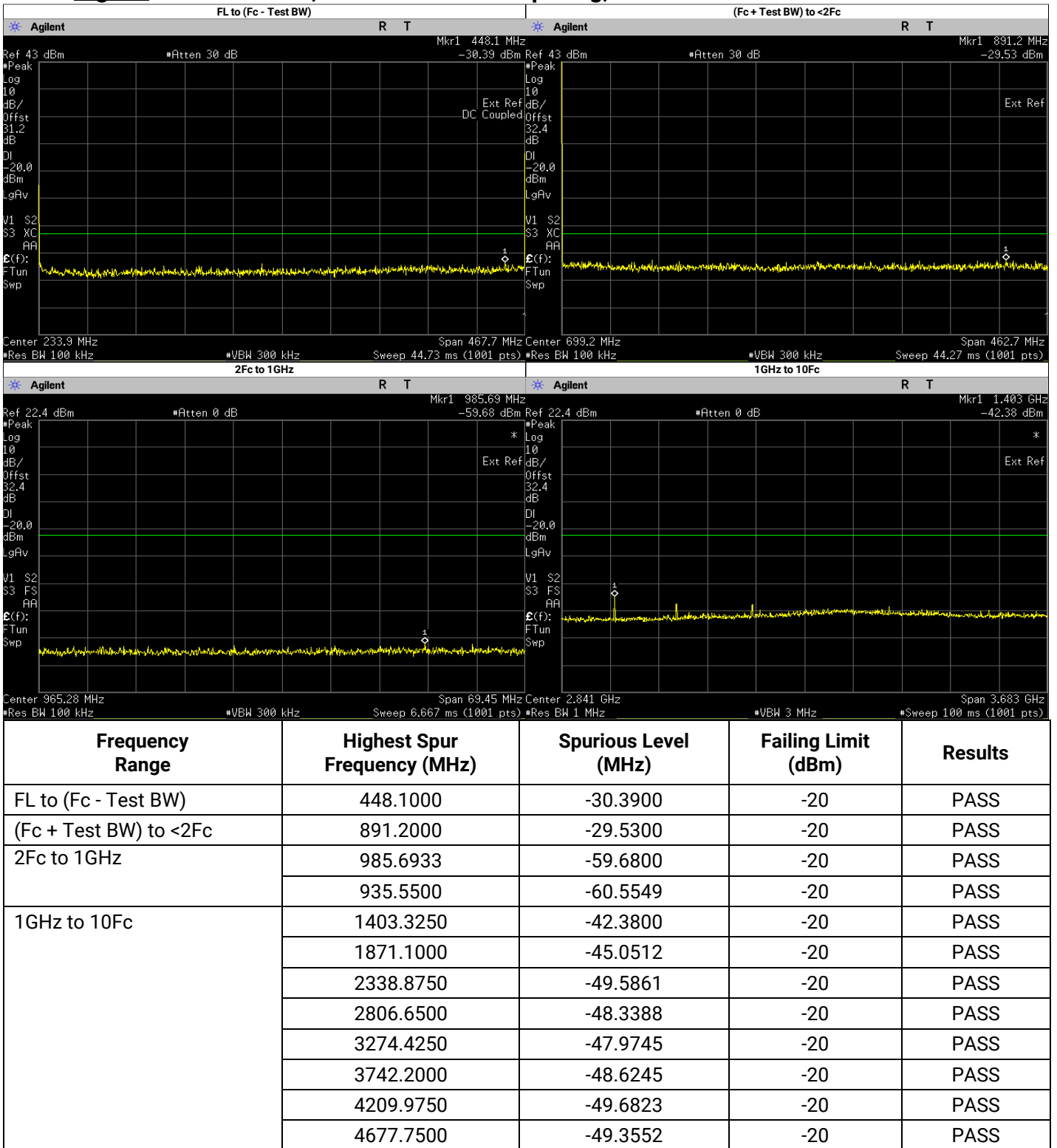


Digital: 459.1250 MHz, 12.5 kHz Channel Spacing, Max Power

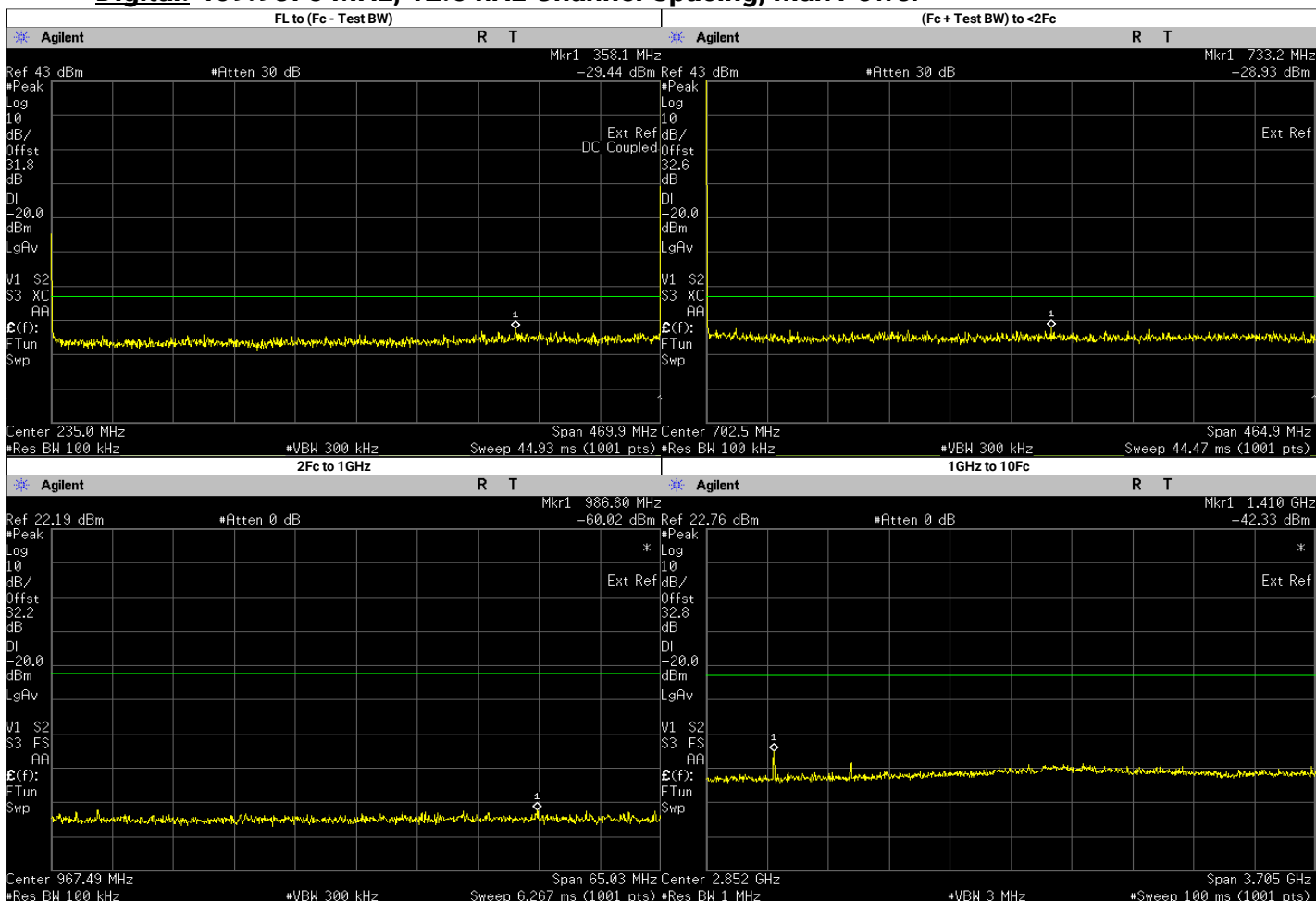


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	344.3000	-29.6300	-20	PASS
(Fc + Test BW) to <2Fc	918.4000	-28.4700	-20	PASS
2Fc to 1GHz	920.4502	-60.6000	-20	PASS
	918.2500	-61.3656	-20	PASS
1GHz to 10Fc	1377.3750	-41.0300	-20	PASS
	1836.5000	-42.9941	-20	PASS
	2295.6250	-50.4284	-20	PASS
	2754.7500	-48.6315	-20	PASS
	3213.8750	-48.6685	-20	PASS
	3673.0000	-49.7025	-20	PASS
	4132.1250	-49.4634	-20	PASS
	4591.2500	-49.8306	-20	PASS

Digital: 467.7750 MHz, 12.5 kHz Channel Spacing, Max Power



Digital: 469.9875 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)	358.1000	-29.4400	-20	PASS
(Fc + Test BW) to <2Fc	733.2000	-28.9300	-20	PASS
2Fc to 1GHz	986.7999	-60.0200	-20	PASS
	939.9750	-60.0311	-20	PASS
1GHz to 10Fc	1409.9630	-42.3300	-20	PASS
	1879.9500	-46.2252	-20	PASS
	2349.9370	-50.0805	-20	PASS
	2819.9250	-49.0823	-20	PASS
	3289.9120	-48.1393	-20	PASS
	3759.9000	-47.7067	-20	PASS
	4229.8870	-49.9801	-20	PASS
	4699.8750	-49.7461	-20	PASS

6.9.4. Test Limit

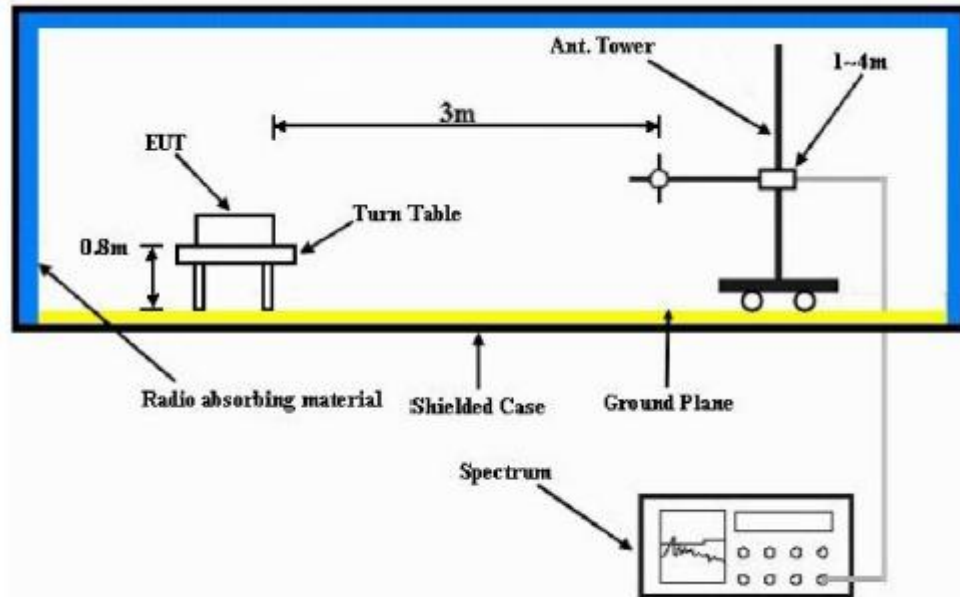
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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 for FCC review
Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	400.0125	Power :	48.00 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	800.0250	-40.44 *	-13.00	27.44
Horizontal	Peak	800.0250	-41.42 *	-13.00	28.42
Vertical	Peak	1200.0370	-60.50 *	-13.00	47.50
Horizontal	Peak	1200.0370	-58.28 *	-13.00	45.28
Vertical	Peak	1600.0500	-53.84 *	-13.00	40.84
Horizontal	Peak	1600.0500	-55.17 *	-13.00	42.17
Vertical	Peak	2000.0630	-58.73 **	-13.00	45.73
Horizontal	Peak	2000.0630	-58.99 **	-13.00	45.99
Vertical	Peak	2400.0750	-57.95 **	-13.00	44.95
Horizontal	Peak	2400.0750	-57.81 **	-13.00	44.81
Vertical	Peak	2800.0870	-58.64 **	-13.00	45.64
Horizontal	Peak	2800.0870	-58.42 **	-13.00	45.42
Vertical	Peak	3200.1000	-56.32 **	-13.00	43.32
Horizontal	Peak	3200.1000	-55.19 **	-13.00	42.19
Vertical	Peak	3600.1130	-56.63 **	-13.00	43.63
Horizontal	Peak	3600.1130	-56.72 **	-13.00	43.72
Vertical	Peak	4000.1250	-54.41 **	-13.00	41.41
Horizontal	Peak	4000.1250	-55.75 **	-13.00	42.75

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Haniff & Firdaus	Test Date :	Tue, 5 May, 2026
System MU :	4.03 dB		

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

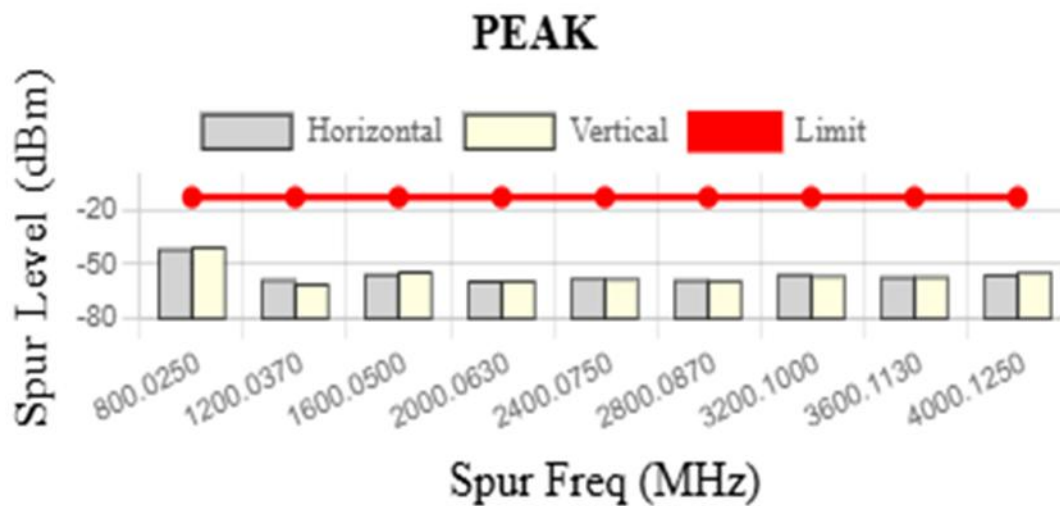
Remarks:

** 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.



Not for FCC review
Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Analog – FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	406.2000	Power :	48.00 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	812.4000	-41.36 **	-13.00	28.36
Horizontal	Peak	812.4000	-40.06 **	-13.00	27.06
Vertical	Peak	1218.6000	-63.36 **	-13.00	50.36
Horizontal	Peak	1218.6000	-60.60 **	-13.00	47.60
Vertical	Peak	1624.8000	-51.51 *	-13.00	38.51
Horizontal	Peak	1624.8000	-52.63 *	-13.00	39.63
Vertical	Peak	2031.0000	-58.87 **	-13.00	45.87
Horizontal	Peak	2031.0000	-59.14 **	-13.00	46.14
Vertical	Peak	2437.2000	-58.17 **	-13.00	45.17
Horizontal	Peak	2437.2000	-57.94 **	-13.00	44.94
Vertical	Peak	2843.4000	-58.96 **	-13.00	45.96
Horizontal	Peak	2843.4000	-57.89 **	-13.00	44.89
Vertical	Peak	3249.6000	-54.96 **	-13.00	41.96
Horizontal	Peak	3249.6000	-53.45 **	-13.00	40.45
Vertical	Peak	3655.8000	-56.90 **	-13.00	43.90
Horizontal	Peak	3655.8000	-56.94 **	-13.00	43.94
Vertical	Peak	4062.0000	-55.26 **	-13.00	42.26
Horizontal	Peak	4062.0000	-55.86 **	-13.00	42.86

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Aiman & Firdaus	Test Date :	Thu, 30 Apr, 2026
System MU :	4.03 dB		

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

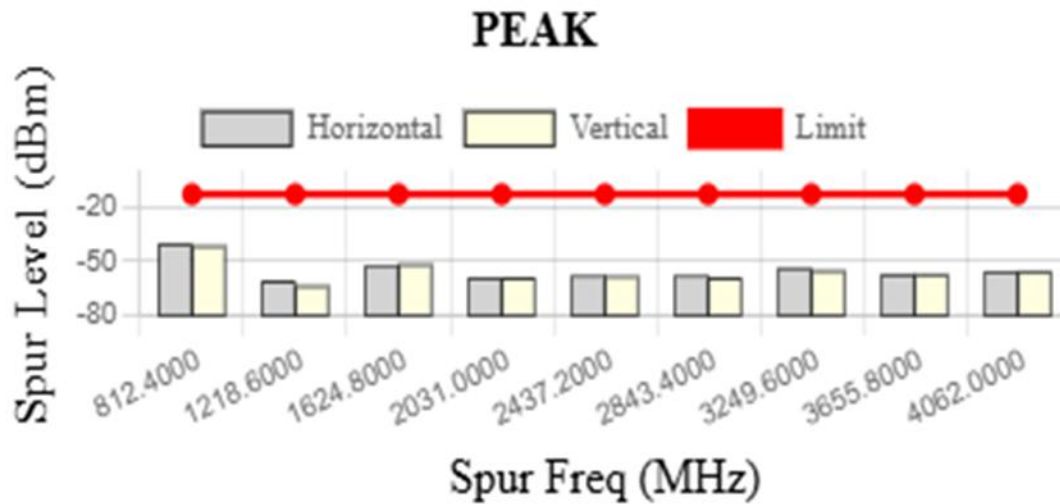
Remarks:

** 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.



For Part 74

Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Analog – FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	450.0250	Power :	25.00 Watt/LOW
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	900.0500	-41.89 **	-13.00	28.89
Horizontal	Peak	900.0500	-38.86 **	-13.00	25.86
Vertical	Peak	1350.0750	-57.05 *	-13.00	44.05
Horizontal	Peak	1350.0750	-55.26 *	-13.00	42.26
Vertical	Peak	1800.1000	-61.08 **	-13.00	48.08
Horizontal	Peak	1800.1000	-61.86 **	-13.00	48.86
Vertical	Peak	2250.1250	-51.31 *	-13.00	38.31
Horizontal	Peak	2250.1250	-50.08 *	-13.00	37.08
Vertical	Peak	2700.1500	-58.65 **	-13.00	45.65
Horizontal	Peak	2700.1500	-58.02 **	-13.00	45.02
Vertical	Peak	3150.1750	-56.72 **	-13.00	43.72
Horizontal	Peak	3150.1750	-56.42 **	-13.00	43.42
Vertical	Peak	3600.2000	-56.68 **	-13.00	43.68
Horizontal	Peak	3600.2000	-57.93 **	-13.00	44.93
Vertical	Peak	4050.2250	-55.93 **	-13.00	42.93
Horizontal	Peak	4050.2250	-55.92 **	-13.00	42.92
Vertical	Peak	4500.2500	-54.62 **	-13.00	41.62
Horizontal	Peak	4500.2500	-54.26 **	-13.00	41.26

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Aiman & Firdaus	Test Date :	Thu, 30 Apr, 2026
System MU :	4.03 dB		

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

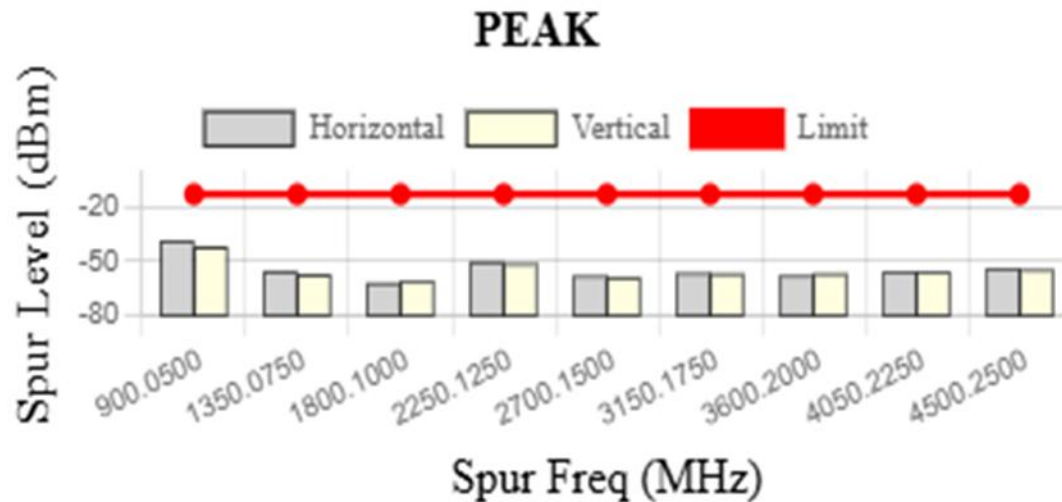
Remarks:

** 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.



For Part 74

Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Analog – FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	450.0250	Power :	48.00 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	900.0500	-40.37 *	-13.00	27.37
Horizontal	Peak	900.0500	-41.68 *	-13.00	28.68
Vertical	Peak	1350.0750	-57.95 *	-13.00	44.95
Horizontal	Peak	1350.0750	-54.87 *	-13.00	41.87
Vertical	Peak	1800.1000	-59.02 **	-13.00	46.02
Horizontal	Peak	1800.1000	-60.21 **	-13.00	47.21
Vertical	Peak	2250.1250	-51.87 *	-13.00	38.87
Horizontal	Peak	2250.1250	-50.30 *	-13.00	37.30
Vertical	Peak	2700.1500	-58.79 **	-13.00	45.79
Horizontal	Peak	2700.1500	-58.30 **	-13.00	45.30
Vertical	Peak	3150.1750	-56.49 **	-13.00	43.49
Horizontal	Peak	3150.1750	-55.67 **	-13.00	42.67
Vertical	Peak	3600.2000	-57.08 **	-13.00	44.08
Horizontal	Peak	3600.2000	-56.62 **	-13.00	43.62
Vertical	Peak	4050.2250	-55.00 **	-13.00	42.00
Horizontal	Peak	4050.2250	-55.16 **	-13.00	42.16
Vertical	Peak	4500.2500	-54.67 **	-13.00	41.67
Horizontal	Peak	4500.2500	-54.76 **	-13.00	41.76

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Haniff & Firdaus	Test Date :	Tue, 5 May, 2026
System MU :	4.03 dB		

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

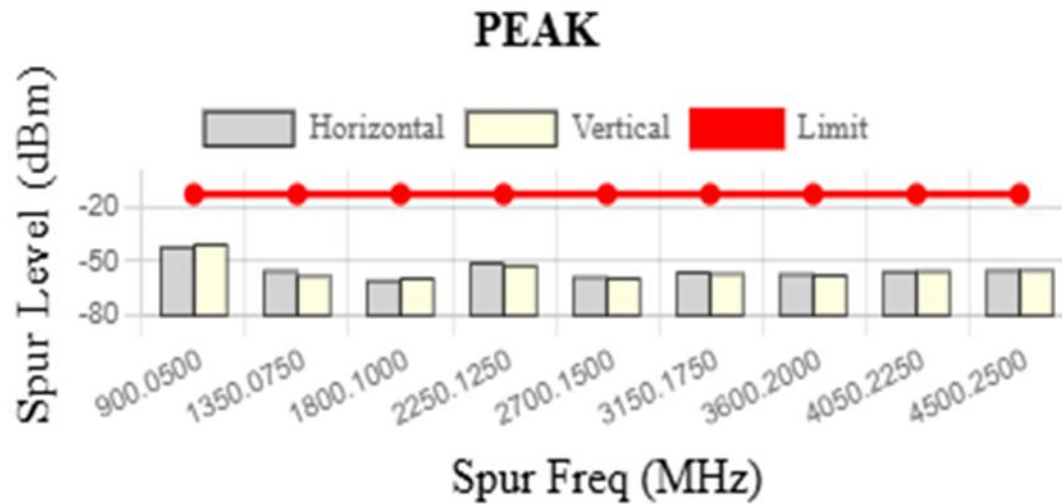
Remarks:

** 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.



For Part 22

Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Analog – FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	459.1250	Power :	48.00 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	918.2500	-42.42 **	-13.00	29.42
Horizontal	Peak	918.2500	-42.13 **	-13.00	29.13
Vertical	Peak	1377.3750	-55.74 *	-13.00	42.74
Horizontal	Peak	1377.3750	-52.38 *	-13.00	39.38
Vertical	Peak	1836.5000	-59.46 **	-13.00	46.46
Horizontal	Peak	1836.5000	-60.03 **	-13.00	47.03
Vertical	Peak	2295.6250	-49.72 *	-13.00	36.72
Horizontal	Peak	2295.6250	-49.65 *	-13.00	36.65
Vertical	Peak	2754.7500	-58.36 **	-13.00	45.36
Horizontal	Peak	2754.7500	-58.50 **	-13.00	45.50
Vertical	Peak	3213.8750	-56.91 **	-13.00	43.91
Horizontal	Peak	3213.8750	-56.34 **	-13.00	43.34
Vertical	Peak	3673.0000	-57.52 **	-13.00	44.52
Horizontal	Peak	3673.0000	-56.72 **	-13.00	43.72
Vertical	Peak	4132.1250	-55.96 **	-13.00	42.96
Horizontal	Peak	4132.1250	-55.77 **	-13.00	42.77
Vertical	Peak	4591.2500	-54.97 **	-13.00	41.97
Horizontal	Peak	4591.2500	-54.06 **	-13.00	41.06

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Aiman & Firdaus	Test Date :	Thu, 30 Apr, 2026
System MU :	4.03 dB		

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

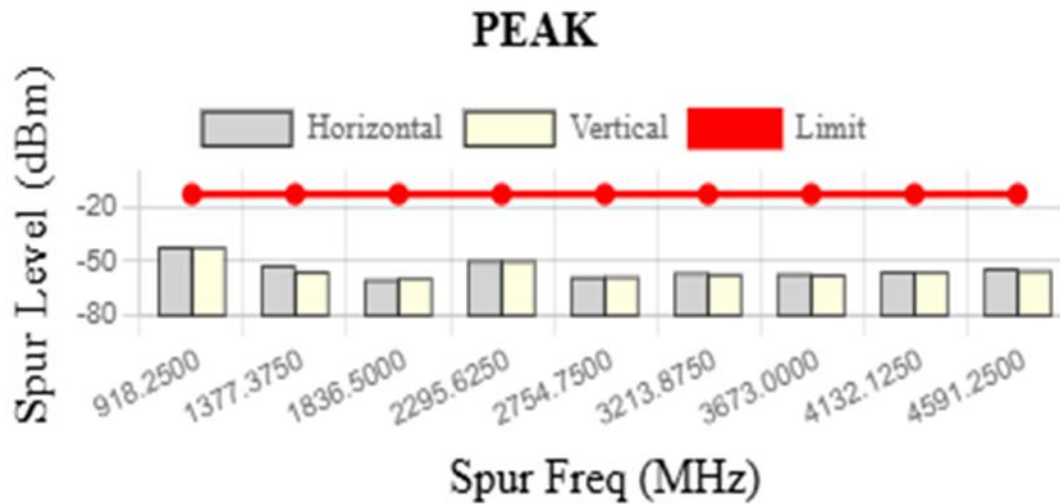
Remarks:

** 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.



Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID : AZ492FT7190 IC : 109U-92FT7190
Model No : AAM29QPN9YA1AN Serial No : 008TCF1832
Battery : - Charger : -
Accessory : PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-
CF1,PMLN8805A,3087791G01,PMLN5072A
Test Mode : LMR Analog – FM Channel SP/Bandwidth (kHz) : 25.0000
Test Frequency (MHz) : 467.7750 Power : 25.00 Watt/LOW
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	935.5500	-42.09 **	-13.00	29.09
Horizontal	Peak	935.5500	-42.16 **	-13.00	29.16
Vertical	Peak	1403.3250	-55.39 *	-13.00	42.39
Horizontal	Peak	1403.3250	-51.58 *	-13.00	38.58
Vertical	Peak	1871.1000	-62.34 **	-13.00	49.34
Horizontal	Peak	1871.1000	-61.22 **	-13.00	48.22
Vertical	Peak	2338.8750	-55.24 *	-13.00	42.24
Horizontal	Peak	2338.8750	-54.05 *	-13.00	41.05
Vertical	Peak	2806.6500	-57.18 **	-13.00	44.18
Horizontal	Peak	2806.6500	-57.81 **	-13.00	44.81
Vertical	Peak	3274.4250	-54.65 **	-13.00	41.65
Horizontal	Peak	3274.4250	-56.30 **	-13.00	43.30
Vertical	Peak	3742.2000	-56.28 **	-13.00	43.28
Horizontal	Peak	3742.2000	-55.88 **	-13.00	42.88
Vertical	Peak	4209.9750	-55.00 **	-13.00	42.00
Horizontal	Peak	4209.9750	-54.51 **	-13.00	41.51
Vertical	Peak	4677.7500	-53.51 **	-13.00	40.51
Horizontal	Peak	4677.7500	-54.55 **	-13.00	41.55

Temperature (°C) : 22.2 Humidity (%) : 61.4
Test Performed by : Aiman & Firdaus Test Date : Thu, 30 Apr, 2026
System MU : 4.03 dB

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

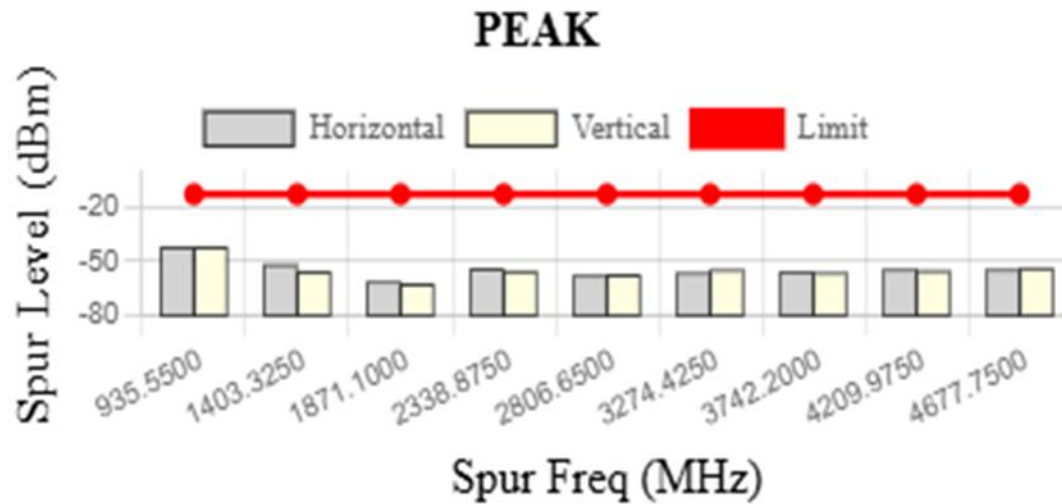
Remarks:

** 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.



Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID : AZ492FT7190 IC : 109U-92FT7190
Model No : AAM29QPN9YA1AN Serial No : 008TCF1832
Battery : - Charger : -
Accessory : PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-
CF1,PMLN8805A,3087791G01,PMLN5072A
Test Mode : LMR Analog - FM Channel SP/Bandwidth (kHz) : 25.0000
Test Frequency (MHz) : 467.7750 Power : 48.00 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	935.5500	-41.60 **	-13.00	28.60
Horizontal	Peak	935.5500	-40.88 **	-13.00	27.88
Vertical	Peak	1403.3250	-55.22 *	-13.00	42.22
Horizontal	Peak	1403.3250	-51.03 *	-13.00	38.03
Vertical	Peak	1871.1000	-60.33 **	-13.00	47.33
Horizontal	Peak	1871.1000	-60.41 **	-13.00	47.41
Vertical	Peak	2338.8750	-54.43 *	-13.00	41.43
Horizontal	Peak	2338.8750	-53.39 *	-13.00	40.39
Vertical	Peak	2806.6500	-58.62 **	-13.00	45.62
Horizontal	Peak	2806.6500	-58.45 **	-13.00	45.45
Vertical	Peak	3274.4250	-55.02 **	-13.00	42.02
Horizontal	Peak	3274.4250	-54.84 **	-13.00	41.84
Vertical	Peak	3742.2000	-55.98 **	-13.00	42.98
Horizontal	Peak	3742.2000	-55.09 **	-13.00	42.09
Vertical	Peak	4209.9750	-55.46 **	-13.00	42.46
Horizontal	Peak	4209.9750	-54.40 **	-13.00	41.40
Vertical	Peak	4677.7500	-53.72 **	-13.00	40.72
Horizontal	Peak	4677.7500	-54.42 **	-13.00	41.42

Temperature (°C) : 22.2 Humidity (%) : 61.4
Test Performed by : Aiman & Firdaus Test Date : Thu, 30 Apr, 2026
System MU : 4.03 dB

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

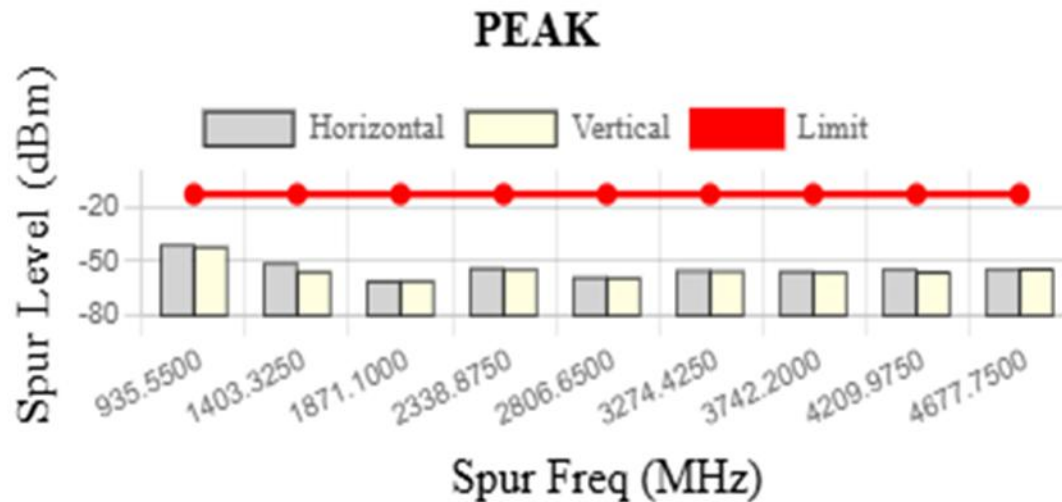
Remarks:

** 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.



Not for FCC review
Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	469.9875	Power :	48.00 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	939.9750	-41.31 **	-13.00	28.31
Horizontal	Peak	939.9750	-41.86 **	-13.00	28.86
Vertical	Peak	1409.9630	-51.15 *	-13.00	38.15
Horizontal	Peak	1409.9630	-51.20 *	-13.00	38.20
Vertical	Peak	1879.9500	-59.90 **	-13.00	46.90
Horizontal	Peak	1879.9500	-59.59 **	-13.00	46.59
Vertical	Peak	2349.9380	-47.75 *	-13.00	34.75
Horizontal	Peak	2349.9380	-50.92 *	-13.00	37.92
Vertical	Peak	2819.9250	-59.80 **	-13.00	46.80
Horizontal	Peak	2819.9250	-58.74 **	-13.00	45.74
Vertical	Peak	3289.9130	-56.04 **	-13.00	43.04
Horizontal	Peak	3289.9130	-55.21 **	-13.00	42.21
Vertical	Peak	3759.9000	-56.35 **	-13.00	43.35
Horizontal	Peak	3759.9000	-55.96 **	-13.00	42.96
Vertical	Peak	4229.8880	-55.99 **	-13.00	42.99
Horizontal	Peak	4229.8880	-53.86 **	-13.00	40.86
Vertical	Peak	4699.8750	-53.98 **	-13.00	40.98
Horizontal	Peak	4699.8750	-53.81 **	-13.00	40.81

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Aiman & Firdaus	Test Date :	Thu, 30 Apr, 2026
System MU :	4.03 dB		

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

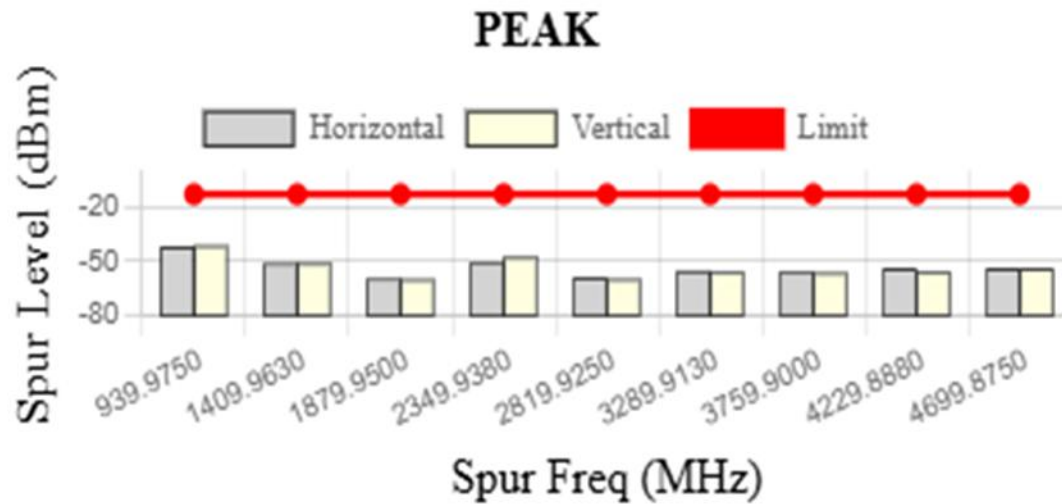
Remarks:

** 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.



6.10.3. Test Result (Digital)

Not for FCC review
Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Digital – 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	400.0125	Power :	48.00 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	800.0250	-39.46 *	-13.00	26.46
Horizontal	Peak	800.0250	-39.29 *	-13.00	26.29
Vertical	Peak	1200.0370	-60.72 *	-13.00	47.72
Horizontal	Peak	1200.0370	-60.30 *	-13.00	47.30
Vertical	Peak	1600.0500	-54.37 *	-13.00	41.37
Horizontal	Peak	1600.0500	-53.54 *	-13.00	40.54
Vertical	Peak	2000.0630	-58.94 **	-13.00	45.94
Horizontal	Peak	2000.0630	-59.41 **	-13.00	46.41
Vertical	Peak	2400.0750	-59.14 **	-13.00	46.14
Horizontal	Peak	2400.0750	-58.45 **	-13.00	45.45
Vertical	Peak	2800.0870	-59.30 **	-13.00	46.30
Horizontal	Peak	2800.0870	-58.39 **	-13.00	45.39
Vertical	Peak	3200.1000	-56.27 **	-13.00	43.27
Horizontal	Peak	3200.1000	-55.34 **	-13.00	42.34
Vertical	Peak	3600.1130	-57.45 **	-13.00	44.45
Horizontal	Peak	3600.1130	-55.93 **	-13.00	42.93
Vertical	Peak	4000.1250	-56.44 **	-13.00	43.44
Horizontal	Peak	4000.1250	-54.94 **	-13.00	41.94

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Haniff & Firdaus	Test Date :	Tue, 5 May, 2026
System MU :	4.03 dB		

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

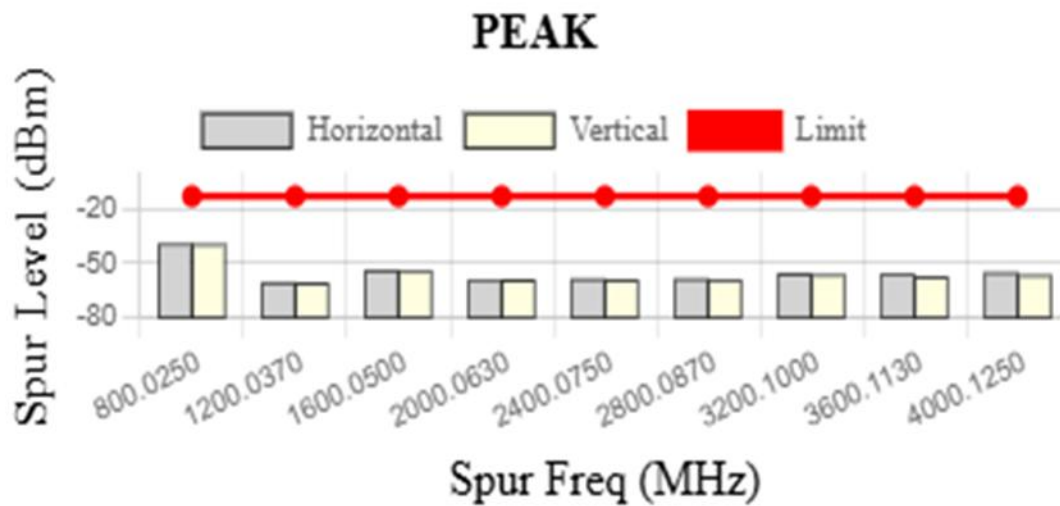
Remarks:

** 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.



Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID : AZ492FT7190 **IC :** -
Model No : AAM29QPN9YA1AN **Serial No :** 008TCF1832
Battery : - **Charger :** -
Accessory : PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A
Test Mode : LMR Digital – 4FSK **Channel SP/Bandwidth (kHz) :** 12.5000
Test Frequency (MHz) : 406.2000 **Power :** 48.00 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	812.4000	-42.16 **	-13.00	29.16
Horizontal	Peak	812.4000	-39.18 **	-13.00	26.18
Vertical	Peak	1218.6000	-60.86 *	-13.00	47.86
Horizontal	Peak	1218.6000	-60.22 *	-13.00	47.22
Vertical	Peak	1624.8000	-54.10 *	-13.00	41.10
Horizontal	Peak	1624.8000	-55.84 *	-13.00	42.84
Vertical	Peak	2031.0000	-59.82 **	-13.00	46.82
Horizontal	Peak	2031.0000	-58.99 **	-13.00	45.99
Vertical	Peak	2437.2000	-57.91 **	-13.00	44.91
Horizontal	Peak	2437.2000	-58.60 **	-13.00	45.60
Vertical	Peak	2843.4000	-58.27 **	-13.00	45.27
Horizontal	Peak	2843.4000	-58.97 **	-13.00	45.97
Vertical	Peak	3249.6000	-56.24 **	-13.00	43.24
Horizontal	Peak	3249.6000	-56.61 **	-13.00	43.61
Vertical	Peak	3655.8000	-57.21 **	-13.00	44.21
Horizontal	Peak	3655.8000	-56.94 **	-13.00	43.94
Vertical	Peak	4062.0000	-55.17 **	-13.00	42.17
Horizontal	Peak	4062.0000	-54.41 **	-13.00	41.41

Temperature (°C) : 22.2 **Humidity (%) :** 61.4
Test Performed by : Aiman & Firdaus **Test Date :** Thu, 30 Apr, 2026
System MU : 4.03 dB

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

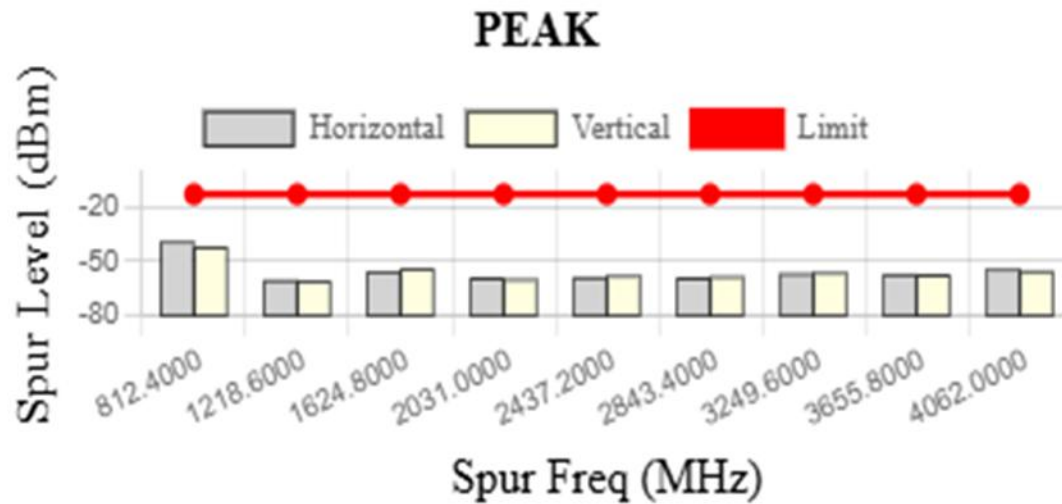
Remarks:

** 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.



Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID : AZ492FT7190 **IC :** 109U-92FT7190
Model No : AAM29QP9YA1AN **Serial No :** 008TCF1832
Battery : - **Charger :** -
Accessory : PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A
Test Mode : LMR Digital – 4FSK **Channel SP/Bandwidth (kHz) :** 12.5000
Test Frequency (MHz) : 450.0250 **Power :** 25.00 Watt/LOW
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	900.0500	-41.99 **	-20.00	21.99
Horizontal	Peak	900.0500	-39.55 **	-20.00	19.55
Vertical	Peak	1350.0750	-57.58 *	-20.00	37.58
Horizontal	Peak	1350.0750	-57.16 *	-20.00	37.16
Vertical	Peak	1800.1000	-60.94 **	-20.00	40.94
Horizontal	Peak	1800.1000	-60.65 **	-20.00	40.65
Vertical	Peak	2250.0120	-52.02 *	-20.00	32.02
Horizontal	Peak	2250.0120	-51.99 *	-20.00	31.99
Vertical	Peak	2700.1500	-57.24 **	-20.00	37.24
Horizontal	Peak	2700.1500	-56.51 **	-20.00	36.51
Vertical	Peak	3150.1750	-56.30 **	-20.00	36.30
Horizontal	Peak	3150.1750	-56.07 **	-20.00	36.07
Vertical	Peak	3600.2000	-56.92 **	-20.00	36.92
Horizontal	Peak	3600.2000	-55.79 **	-20.00	35.79
Vertical	Peak	4050.2250	-55.16 **	-20.00	35.16
Horizontal	Peak	4050.2250	-55.30 **	-20.00	35.30
Vertical	Peak	4500.2500	-54.89 **	-20.00	34.89
Horizontal	Peak	4500.2500	-54.74 **	-20.00	34.74

Temperature (°C) : 22.2 **Humidity (%) :** 61.4
Test Performed by : Aiman & Firdaus **Test Date :** Thu, 30 Apr, 2026
System MU : 4.03 dB

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

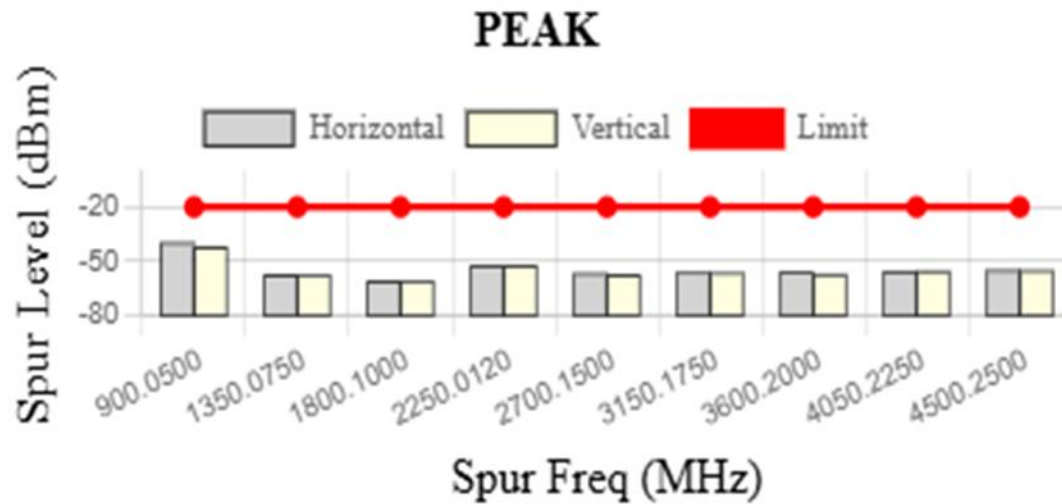
Remarks:

** 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.



Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Digital – 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	450.0250	Power :	48.00 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	900.0500	-41.38 **	-20.00	21.38
Horizontal	Peak	900.0500	-43.20 **	-20.00	23.20
Vertical	Peak	1350.0750	-57.53 *	-20.00	37.53
Horizontal	Peak	1350.0750	-56.86 *	-20.00	36.86
Vertical	Peak	1800.1000	-57.98 *	-20.00	37.98
Horizontal	Peak	1800.1000	-57.47 *	-20.00	37.47
Vertical	Peak	2250.1250	-49.86 *	-20.00	29.86
Horizontal	Peak	2250.1250	-51.14 *	-20.00	31.14
Vertical	Peak	2700.1500	-58.10 **	-20.00	38.10
Horizontal	Peak	2700.1500	-57.49 **	-20.00	37.49
Vertical	Peak	3150.1750	-55.87 **	-20.00	35.87
Horizontal	Peak	3150.1750	-55.78 **	-20.00	35.78
Vertical	Peak	3600.2000	-56.40 **	-20.00	36.40
Horizontal	Peak	3600.2000	-56.54 **	-20.00	36.54
Vertical	Peak	4050.2250	-54.45 **	-20.00	34.45
Horizontal	Peak	4050.2250	-55.13 **	-20.00	35.13
Vertical	Peak	4500.2500	-53.69 **	-20.00	33.69
Horizontal	Peak	4500.2500	-54.84 **	-20.00	34.84

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Aiman & Firdaus	Test Date :	Thu, 30 Apr, 2026
System MU :	4.03 dB		

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

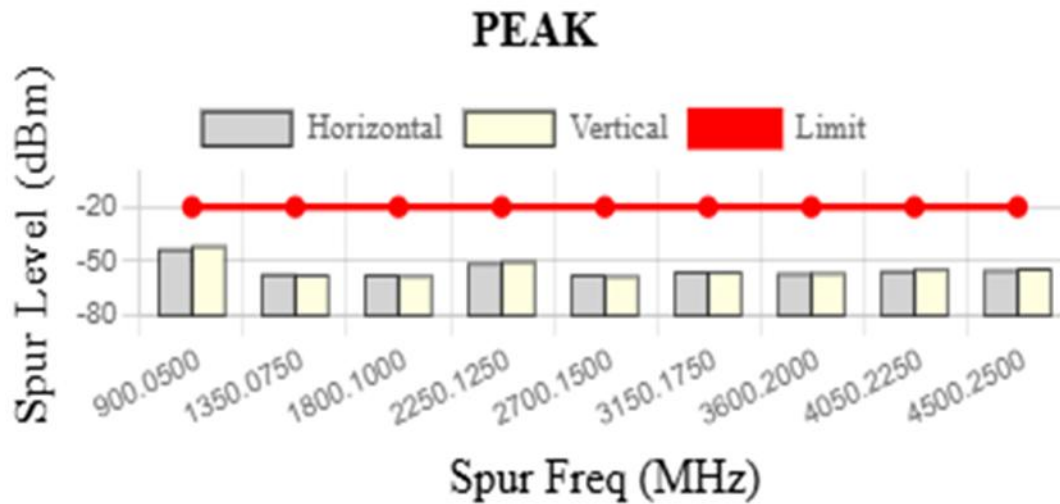
Remarks:

** 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.



Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID : AZ492FT7190 **IC :** 109U-92FT7190
Model No : AAM29QPN9YA1AN **Serial No :** 008TCF1832
Battery : - **Charger :** -
Accessory : PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A
Test Mode : LMR Digital – 4FSK **Channel SP/Bandwidth (kHz) :** 12.5000
Test Frequency (MHz) : 459.1250 **Power :** 48.00 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	918.2500	-41.88 **	-20.00	21.88
Horizontal	Peak	918.2500	-42.77 **	-20.00	22.77
Vertical	Peak	1377.3750	-57.11 *	-20.00	37.11
Horizontal	Peak	1377.3750	-58.03 *	-20.00	38.03
Vertical	Peak	1836.5000	-57.69 *	-20.00	37.69
Horizontal	Peak	1836.5000	-58.10 *	-20.00	38.10
Vertical	Peak	2295.6250	-51.71 *	-20.00	31.71
Horizontal	Peak	2295.6250	-52.80 *	-20.00	32.80
Vertical	Peak	2754.7500	-58.22 **	-20.00	38.22
Horizontal	Peak	2754.7500	-58.21 **	-20.00	38.21
Vertical	Peak	3213.8750	-57.04 **	-20.00	37.04
Horizontal	Peak	3213.8750	-56.91 **	-20.00	36.91
Vertical	Peak	3673.0000	-56.69 **	-20.00	36.69
Horizontal	Peak	3673.0000	-55.75 **	-20.00	35.75
Vertical	Peak	4132.1250	-54.50 **	-20.00	34.50
Horizontal	Peak	4132.1250	-55.85 **	-20.00	35.85
Vertical	Peak	4591.2500	-54.18 **	-20.00	34.18
Horizontal	Peak	4591.2500	-54.49 **	-20.00	34.49

Temperature (°C) : 22.2 **Humidity (%) :** 61.4
Test Performed by : Aiman & Firdaus **Test Date :** Thu, 30 Apr, 2026
System MU : 4.03 dB

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

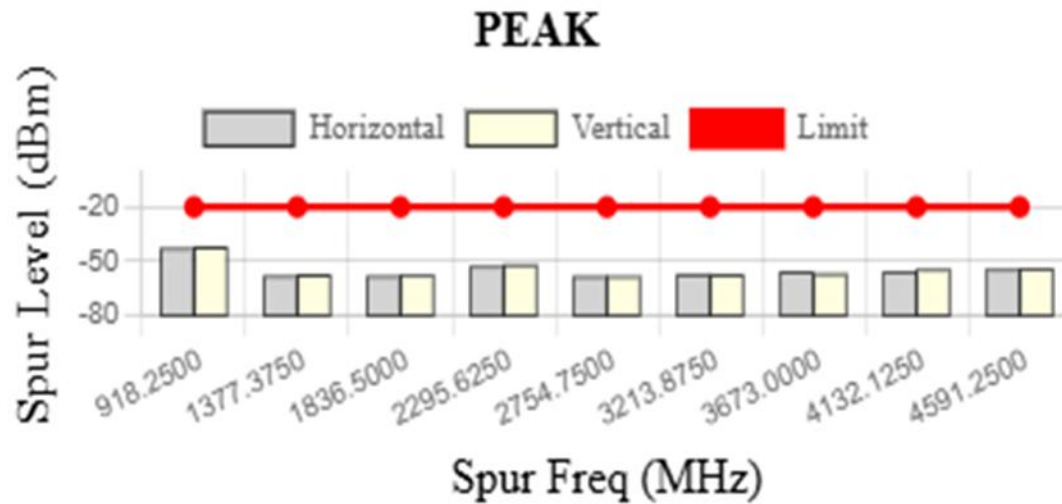
Remarks:

** 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.



Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID : AZ492FT7190 **IC :** 109U-92FT7190
Model No : AAM29QPN9YA1AN **Serial No :** 008TCF1832
Battery : - **Charger :** -
Accessory : PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A
Test Mode : LMR Digital – 4FSK **Channel SP/Bandwidth (kHz) :** 12.5000
Test Frequency (MHz) : 467.7750 **Power :** 48.00 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	935.5500	-41.34 **	-20.00	21.34
Horizontal	Peak	935.5500	-41.43 **	-20.00	21.43
Vertical	Peak	1403.3250	-52.06 *	-20.00	32.06
Horizontal	Peak	1403.3250	-51.28 *	-20.00	31.28
Vertical	Peak	1871.1000	-59.68 **	-20.00	39.68
Horizontal	Peak	1871.1000	-59.06 **	-20.00	39.06
Vertical	Peak	2338.8750	-47.64 *	-20.00	27.64
Horizontal	Peak	2338.8750	-49.34 *	-20.00	29.34
Vertical	Peak	2806.6500	-58.25 **	-20.00	38.25
Horizontal	Peak	2806.6500	-58.33 **	-20.00	38.33
Vertical	Peak	3274.4250	-55.76 **	-20.00	35.76
Horizontal	Peak	3274.4250	-56.64 **	-20.00	36.64
Vertical	Peak	3742.2000	-56.30 **	-20.00	36.30
Horizontal	Peak	3742.2000	-57.04 **	-20.00	37.04
Vertical	Peak	4209.9750	-54.38 **	-20.00	34.38
Horizontal	Peak	4209.9750	-55.64 **	-20.00	35.64
Vertical	Peak	4677.7500	-54.00 **	-20.00	34.00
Horizontal	Peak	4677.7500	-53.70 **	-20.00	33.70

Temperature (°C) : 22.2 **Humidity (%) :** 61.4
Test Performed by : Aiman & Firdaus **Test Date :** Thu, 30 Apr, 2026
System MU : 4.03 dB

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

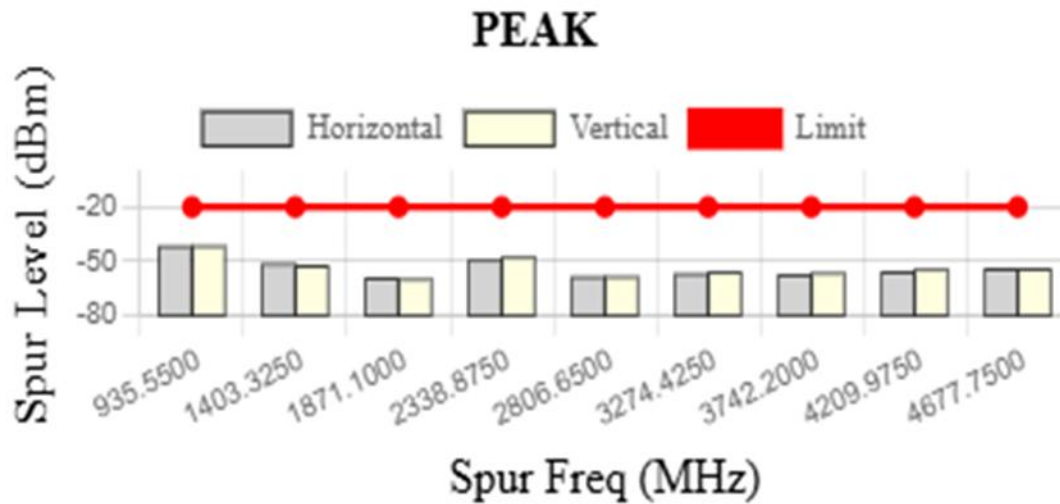
Remarks:

** 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.



Not for FCC review
Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00042

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A,RMN5050A-C4,RSN4005A-CF1,PS000280A02-CF1,PMLN8805A,3087791G01,PMLN5072A		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	469.9875	Power :	48.00 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	939.9750	-41.84 **	-20.00	21.84
Horizontal	Peak	939.9750	-41.44 **	-20.00	21.44
Vertical	Peak	1409.9630	-51.53 *	-20.00	31.53
Horizontal	Peak	1409.9630	-52.03 *	-20.00	32.03
Vertical	Peak	1879.9500	-54.49 *	-20.00	34.49
Horizontal	Peak	1879.9500	-55.67 *	-20.00	35.67
Vertical	Peak	2349.9380	-48.37 *	-20.00	28.37
Horizontal	Peak	2349.9380	-53.41 *	-20.00	33.41
Vertical	Peak	2819.9250	-57.93 **	-20.00	37.93
Horizontal	Peak	2819.9250	-59.10 **	-20.00	39.10
Vertical	Peak	3289.9130	-56.11 **	-20.00	36.11
Horizontal	Peak	3289.9130	-56.05 **	-20.00	36.05
Vertical	Peak	3759.9000	-56.39 **	-20.00	36.39
Horizontal	Peak	3759.9000	-55.65 **	-20.00	35.65
Vertical	Peak	4229.8880	-55.70 **	-20.00	35.70
Horizontal	Peak	4229.8880	-55.19 **	-20.00	35.19
Vertical	Peak	4699.8750	-53.92 **	-20.00	33.92
Horizontal	Peak	4699.8750	-53.37 **	-20.00	33.37

Temperature (°C) :	22.2	Humidity (%) :	61.4
Test Performed by :	Aiman & Firdaus	Test Date :	Thu, 30 Apr, 2026
System MU :	4.03 dB		

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

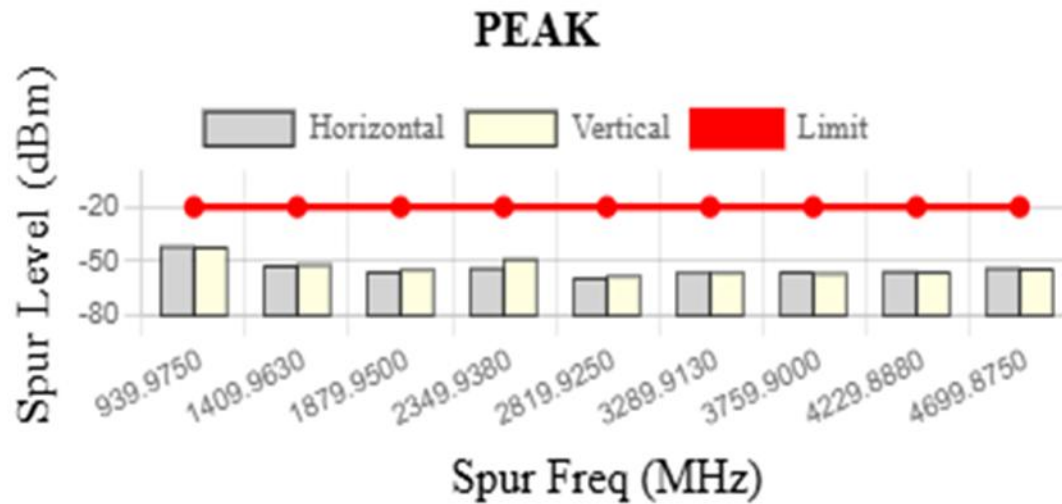
Remarks:

** 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.



Not for FCC review
Motorola Solutions

SAC TX Radiated Emission : 1468N00-EMC-00078

FCC ID :	AZ492FT7190	IC :	109U-92FT7190
Model No :	AAM29QPN9YA1AN	Serial No :	008TCF1832
Battery :	-	Charger :	-
Accessory :	PMAN4013A, RMN5050A-C4, RSN4005A-CF1, PMLN8805A, PS000673A01-CF2, 3087791G01, PMLN5072A		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	400.0125	Power :	48.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015	Voltage (V) :	120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	36.6250	-47.81 *	-13.00	34.81
Horizontal	Peak	36.6250	-53.17 *	-13.00	40.17
Vertical	Peak	44.4240	-41.27 *	-13.00	28.27
Horizontal	Peak	44.4240	-45.00 *	-13.00	32.00
Vertical	Peak	60.4730	-35.18 *	-13.00	22.18
Horizontal	Peak	60.4730	-39.91 *	-13.00	26.91
Vertical	Peak	84.1220	-44.24 *	-13.00	31.24
Horizontal	Peak	84.1220	-46.56 *	-13.00	33.56
Vertical	Peak	108.7710	-43.20 *	-13.00	30.20
Horizontal	Peak	108.7710	-43.04 *	-13.00	30.04
Vertical	Peak	130.2200	-43.63 *	-13.00	30.63
Horizontal	Peak	130.2200	-42.67 *	-13.00	29.67
Vertical	Peak	156.7180	-42.45 *	-13.00	29.45
Horizontal	Peak	156.7180	-50.08 *	-13.00	37.08
Vertical	Peak	800.0250	-40.50 **	-13.00	27.50
Horizontal	Peak	800.0250	-39.55 **	-13.00	26.55
Vertical	Peak	1200.0370	-65.05 **	-13.00	52.05
Horizontal	Peak	1200.0370	-64.82 **	-13.00	51.82
Vertical	Peak	1600.0500	-64.04 **	-13.00	51.04
Horizontal	Peak	1600.0500	-63.61 **	-13.00	50.61
Vertical	Peak	2000.0630	-59.40 **	-13.00	46.40
Horizontal	Peak	2000.0630	-58.30 **	-13.00	45.30
Vertical	Peak	2400.0750	-59.78 **	-13.00	46.78
Horizontal	Peak	2400.0750	-59.58 **	-13.00	46.58
Vertical	Peak	2800.0870	-58.52 **	-13.00	45.52
Horizontal	Peak	2800.0870	-57.11 **	-13.00	44.11
Vertical	Peak	3200.1000	-56.11 **	-13.00	43.11
Horizontal	Peak	3200.1000	-55.86 **	-13.00	42.86
Vertical	Peak	3600.1130	-56.12 **	-13.00	43.12
Horizontal	Peak	3600.1130	-55.91 **	-13.00	42.91
Vertical	Peak	4000.1250	-52.71 **	-13.00	39.71
Horizontal	Peak	4000.1250	-53.32 **	-13.00	40.32

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

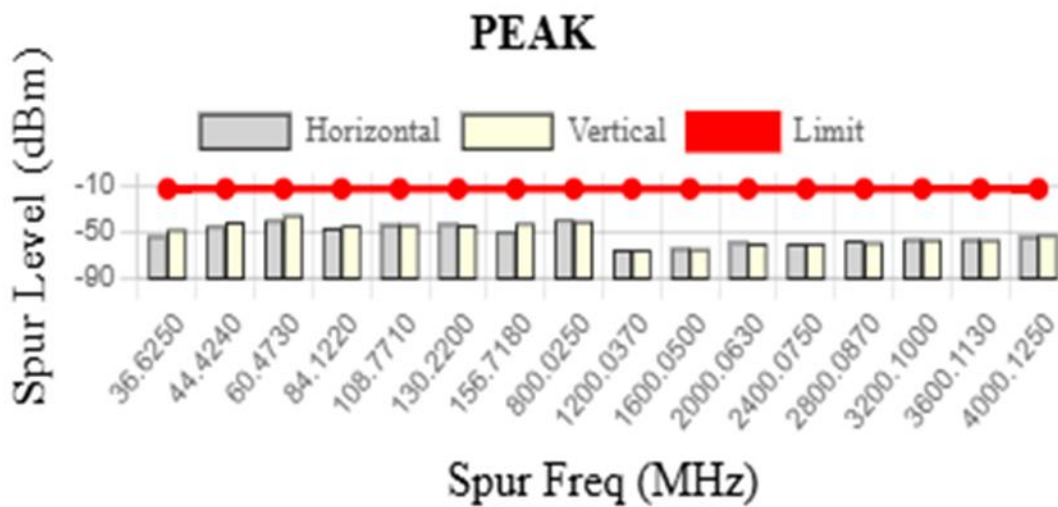
Humidity (%) : 68.3
 Test Date : Wed, 1 Jul, 2026

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.



6.10.4. Test Limit

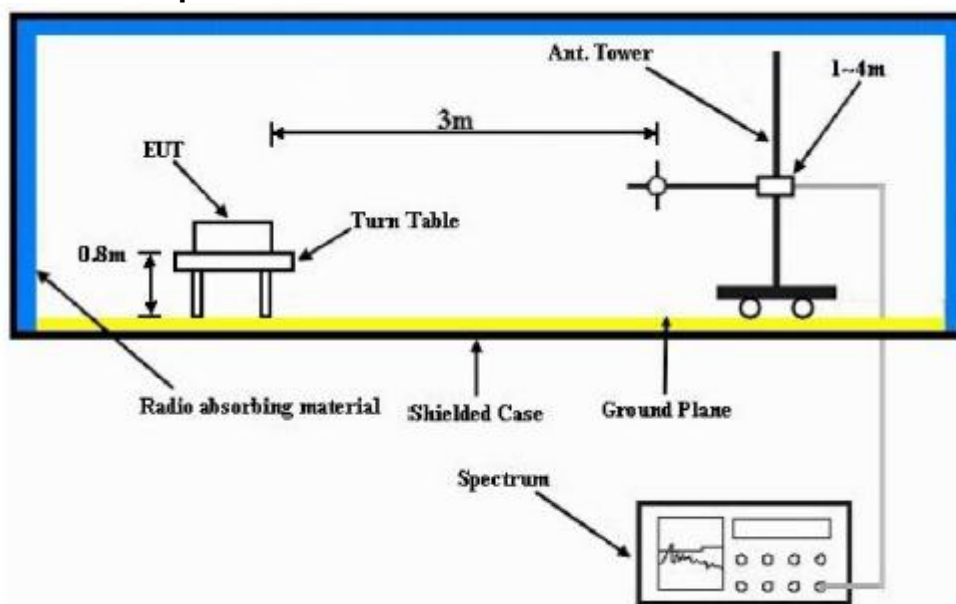
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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

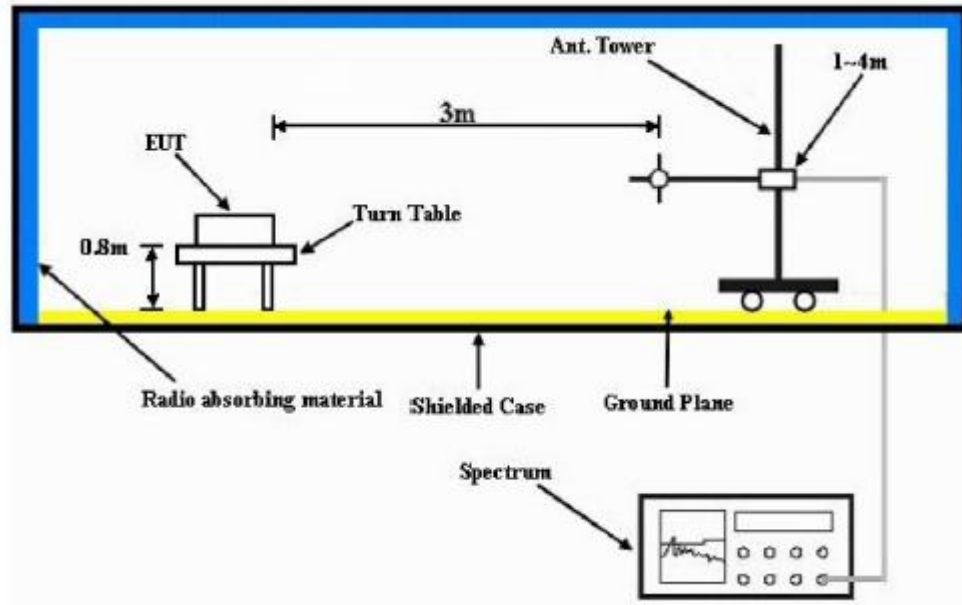
FCC CFR 47 Part90.541 The transmitting power and antenna height of base, mobile, portable and control stations operating in the 769-775 MHz and 799-805 MHz frequency bands must not exceed the maximum limits in this section. Power limits are listed in effective radiated power (ERP).

- 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 ~