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#### **Appendix** 9

#### Appendix FCC data.

1.Occupied Bandwidth

Test Frequency (MHz)	Modulation Type	Power Level	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit (kHz)
		Max	10.848	15.98	20
156.025		Low	10.852	15.97	20
		Max	10.864	15.98	20
156.3		Low	10.866	15.98	20
		Max	10.825	15.97	20
156.8	FM/G3E	Low	10.828	15.97	20
		Max	10.829	13.59	20
156.65		Low	10.833	15.96	20
		Max	10.929	16.17	20
157.425		Low	10.934	16.17	20
162.025	GMSK/GXW	/	9.600	5.615	20
	FSK/G2B	Max	8.068	10.66	20
	(dsc-1300Hz)	Low	8.034	10.59	20
156.525	FSK/G2B dsc-2100Hz	Max	12.835	17.04	20
		Low	12.821	17.03	20



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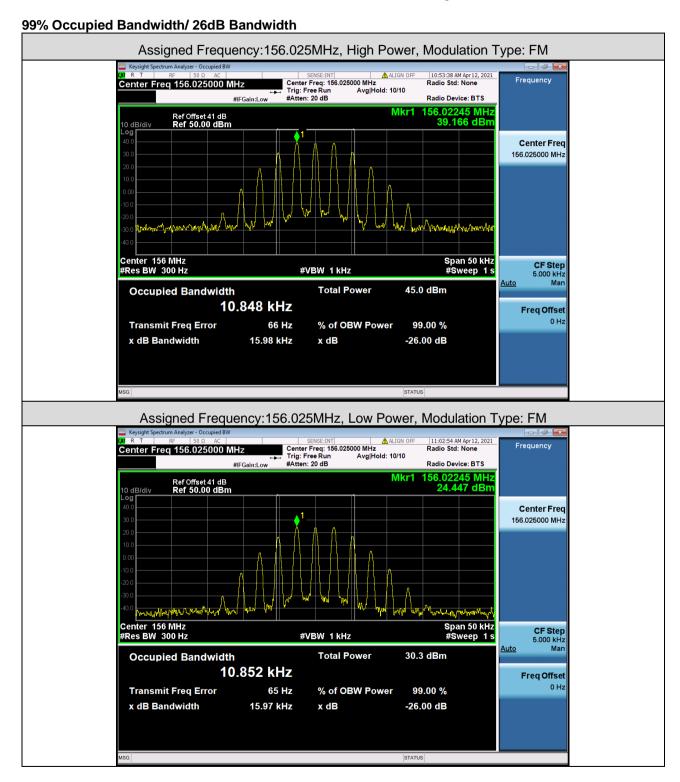
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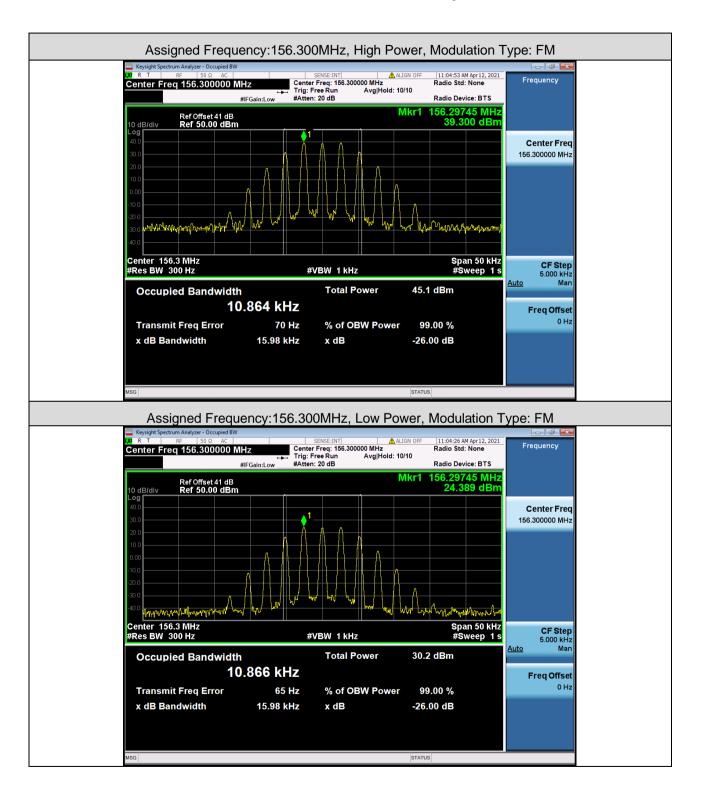
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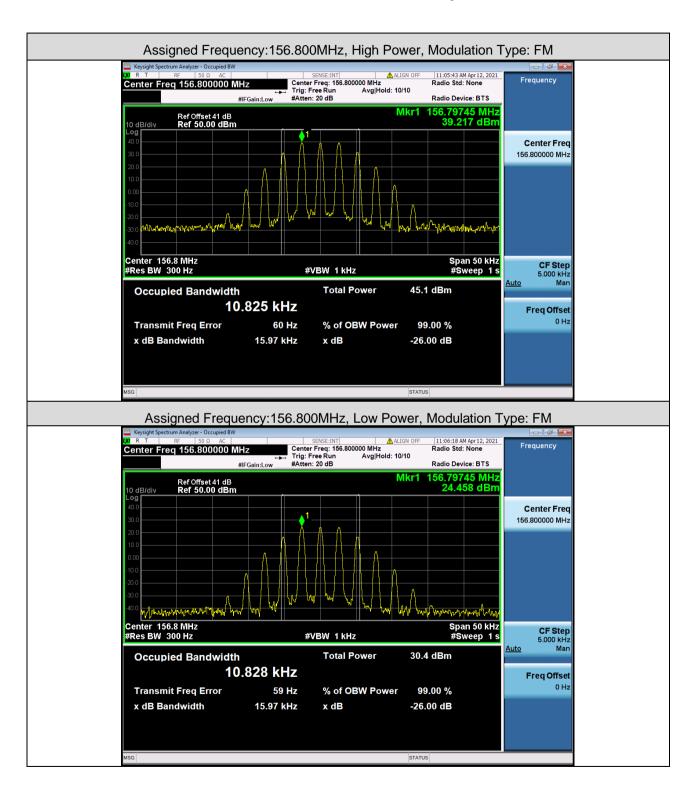
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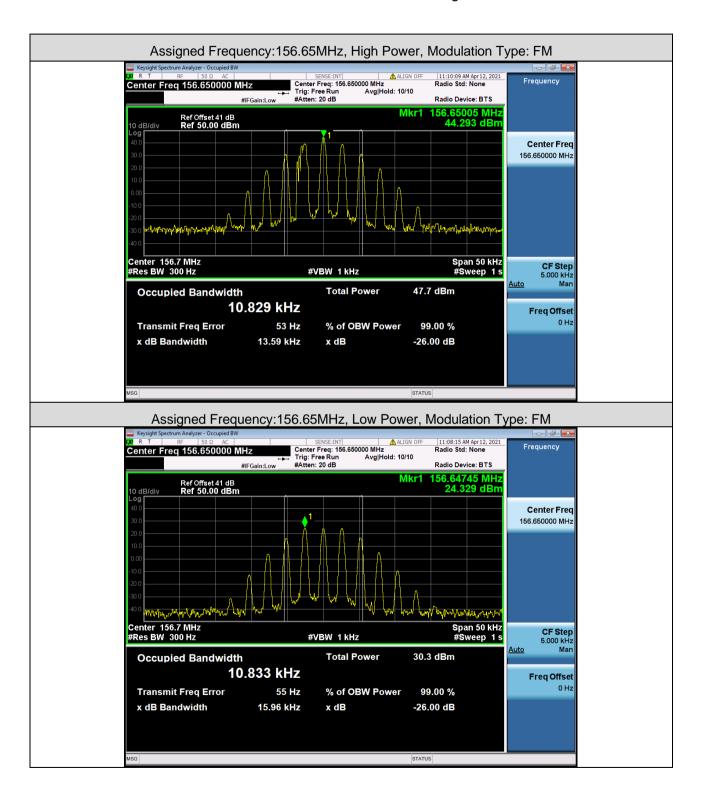
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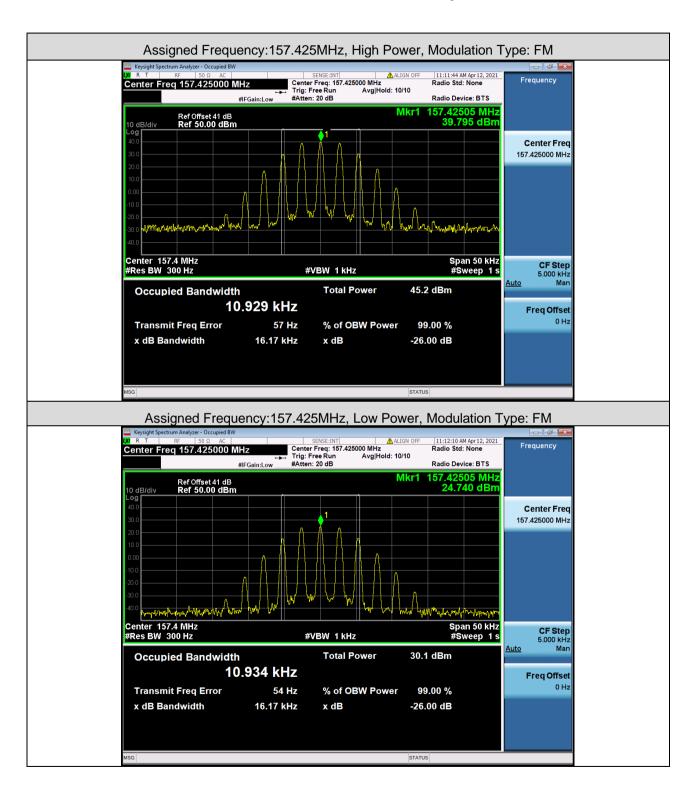
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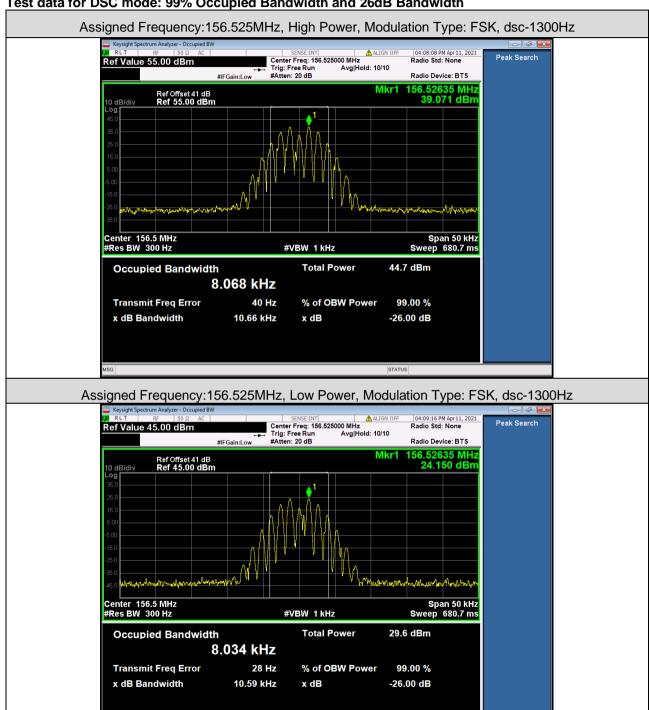
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#### Test data for DSC mode: 99% Occupied Bandwidth and 26dB Bandwidth





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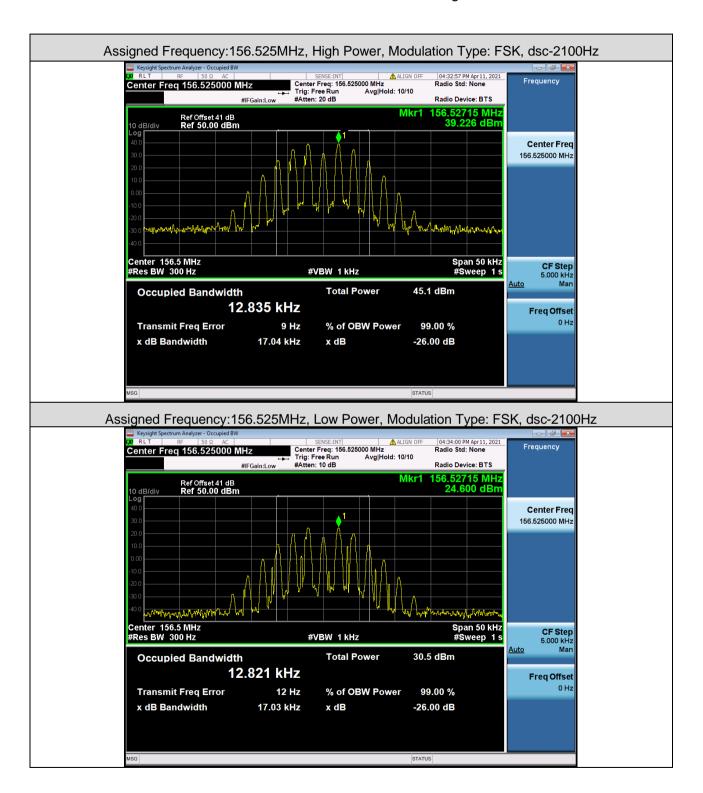
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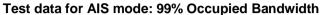
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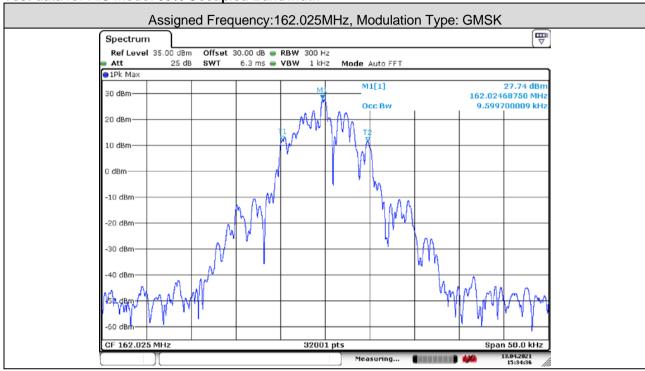
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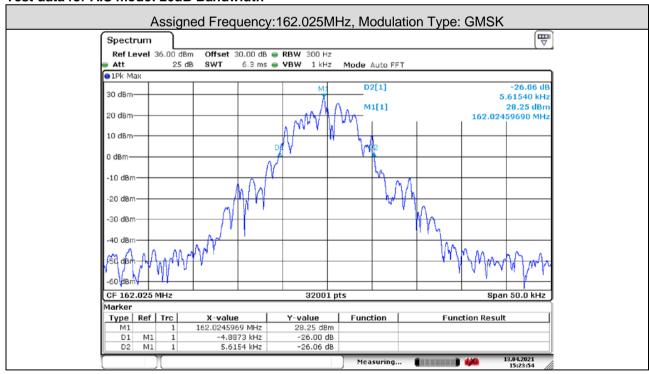
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Test data for AIS mode: 26dB Bandwidth





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2. Transmitter Frequency Tolerances.

Unmodulated, Assigned Frequency:156.025MHz								
Voltage(V)	Temperature (°C)	Measured Frequency Frequency(MHz) Error(ppm)		FCC Limit (ppm)	Result			
	-20	156.02505	-0.3205					
	-15	156.025054	-0.3461					
	-10	156.025044	-0.2820					
	0	156.025068	-0.4358					
40	10	156.025038	-0.2436		Pass			
12	20	156.025062	-0.3974	.40				
	30	156.025069	-0.4422	±10				
	40	156.025039	-0.2500					
	50	156.025048	-0.3076					
	55	156.025051	-0.3269					
10.2	25	156.025044	-0.2820					
13.8	25	156.025051	-0.3269					

Unmodulated, Assigned Frequency:156.525MHz								
\/alta===(\) (\)	Temperature	Measured	Frequency	FCC Limit	Dazult			
Voltage(V)	(°C)	Frequency(MHz)	Error(ppm)	(ppm)	Result			
	-20	156.525038	-0.2428					
	-15	156.525052	-0.3322					
	-10	156.525058	-0.3705					
	0	156.525048	-0.3067					
40	10	156.525034	-0.2172		Pass			
12	20	156.525066	-0.4217	40				
	30	156.525068	-0.4344	±10				
	40	156.525053	-0.3386					
	50	156.525046	-0.2939					
	55	156.525055	-0.3514					
10.2	25	156.525066	-0.4217					
13.8	25	156.525055	-0.3514					



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Unmodulated, Assigned Frequency:162.025MHz								
Voltage(V)	Temperature (°C)	Measured Frequency(MHz)	Frequency Error(ppm)	FCC Limit (ppm)	Result			
	-20	162.025045	-0.2777	<b></b>				
	-15	162.025053	-0.3271					
	-10	162.025071	-0.4382					
	0	162.025046	-0.2839					
40	10	162.025072	-0.4444		Pass			
12	20	162.025037	-0.2284	40				
	30	162.025044	-0.2716	±10				
	40	162.02503	-0.1852					
	50	162.025036	-0.2222					
	55	162.025043	-0.2654					
10.2	25	162.025062	-0.3827					
13.8	25	162.025045	-0.2777					



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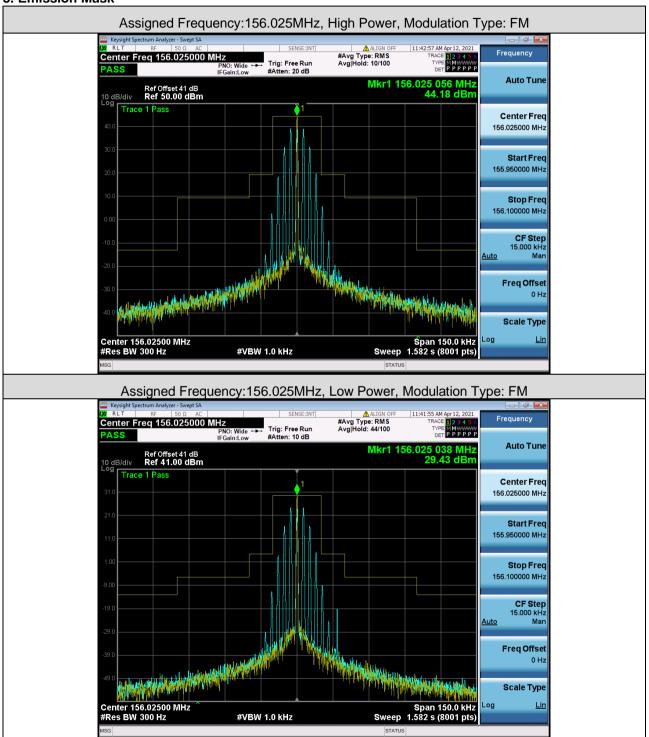
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#### 3. Emission Mask





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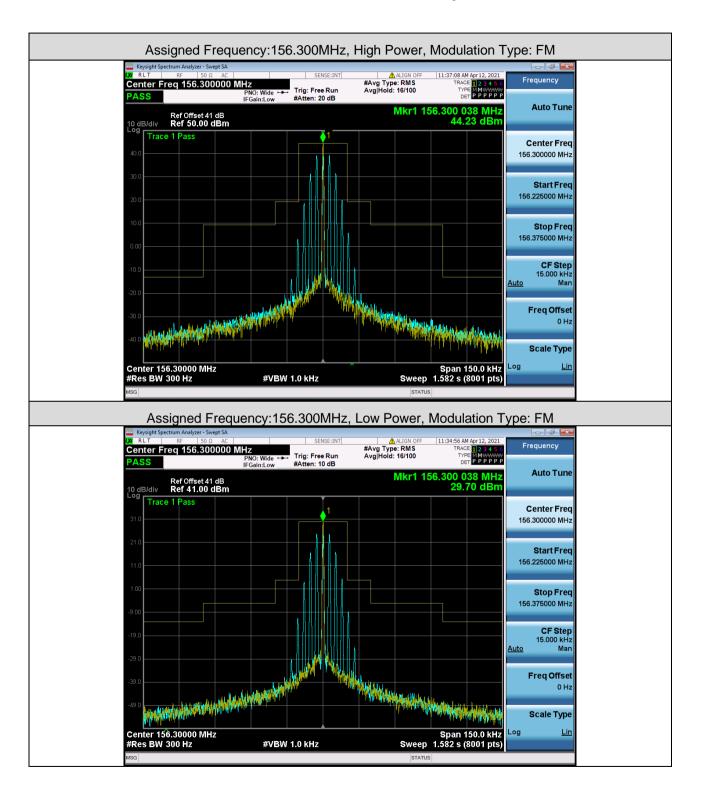
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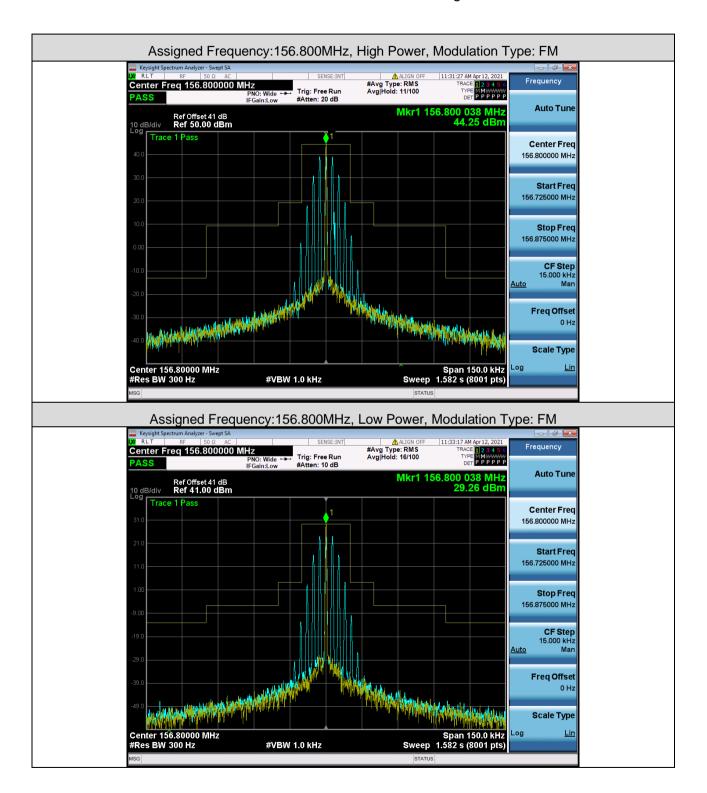
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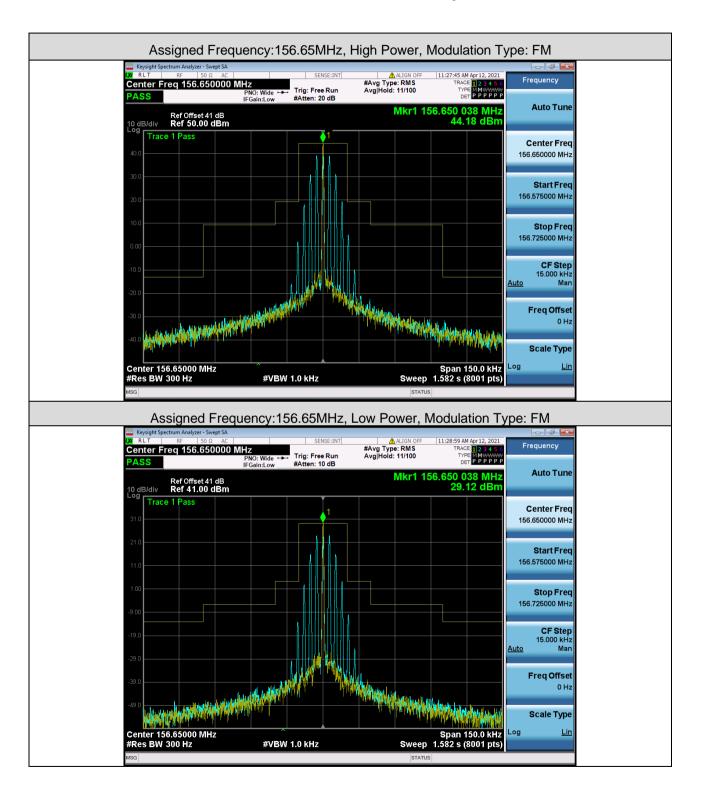
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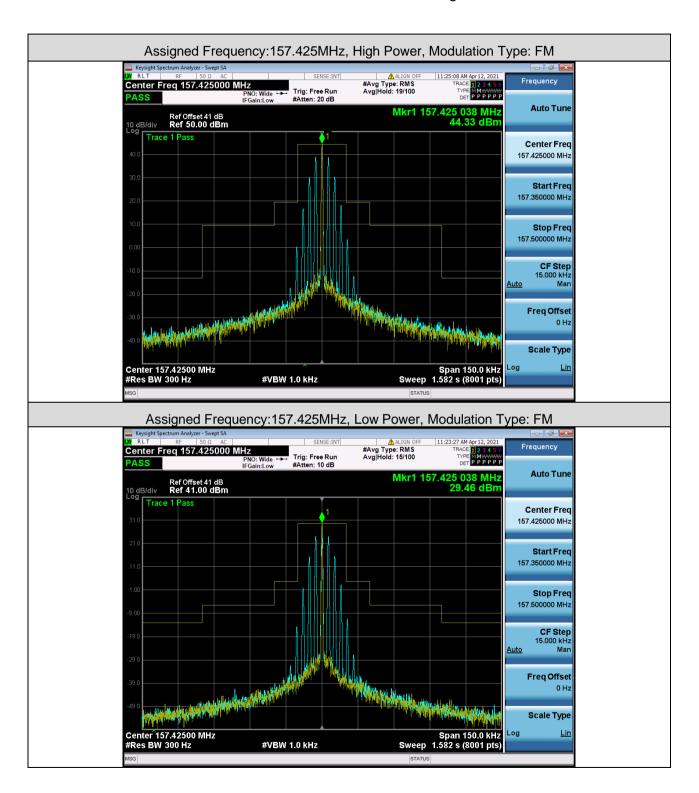
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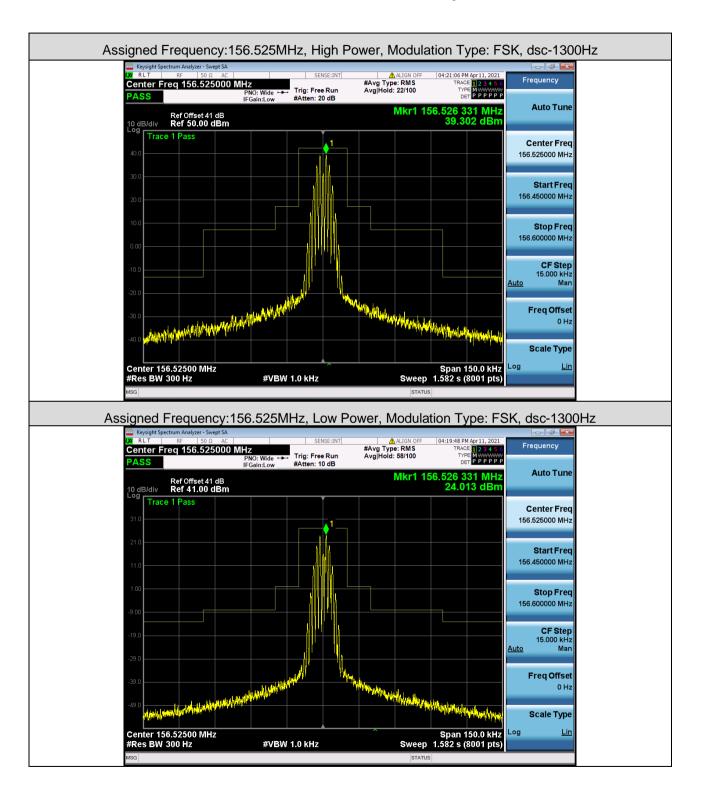
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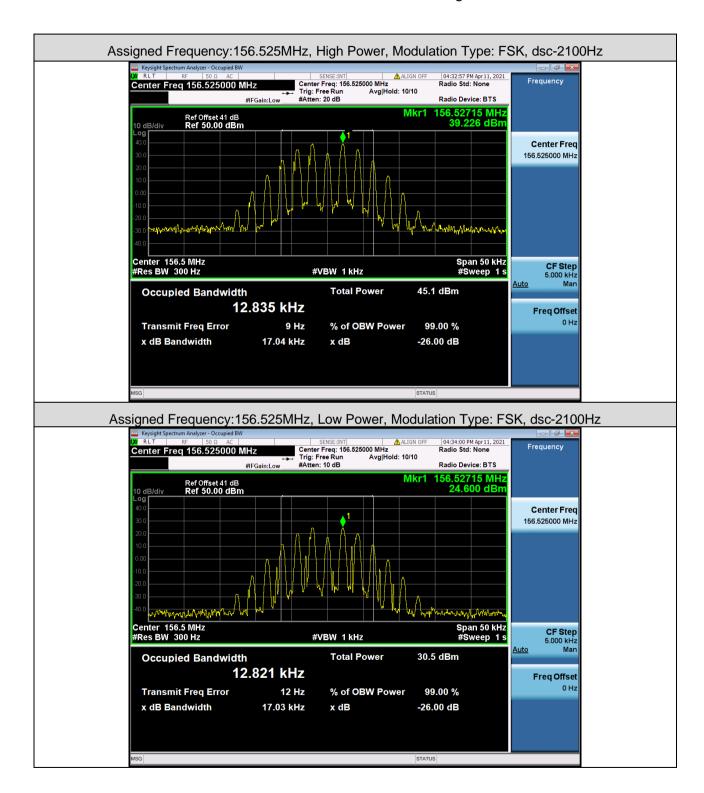
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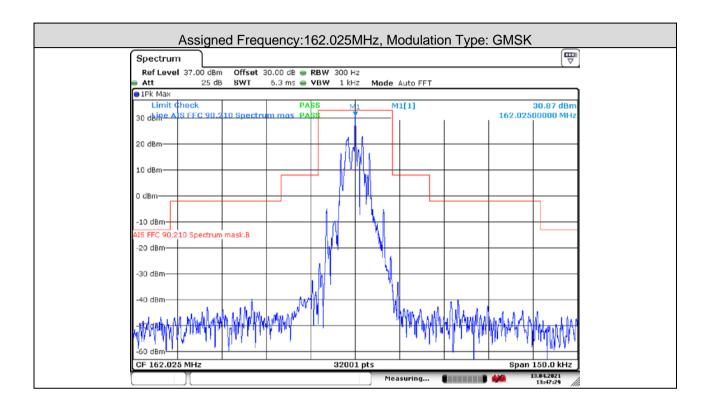
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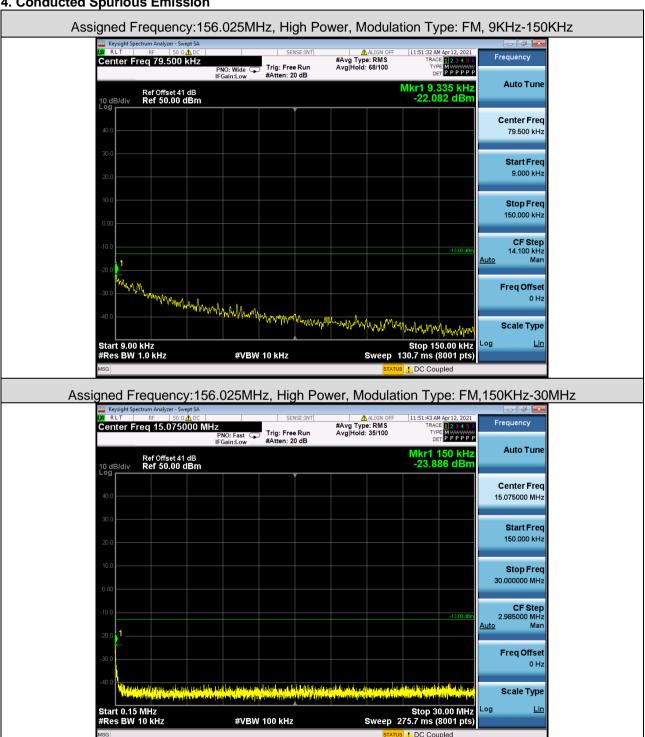
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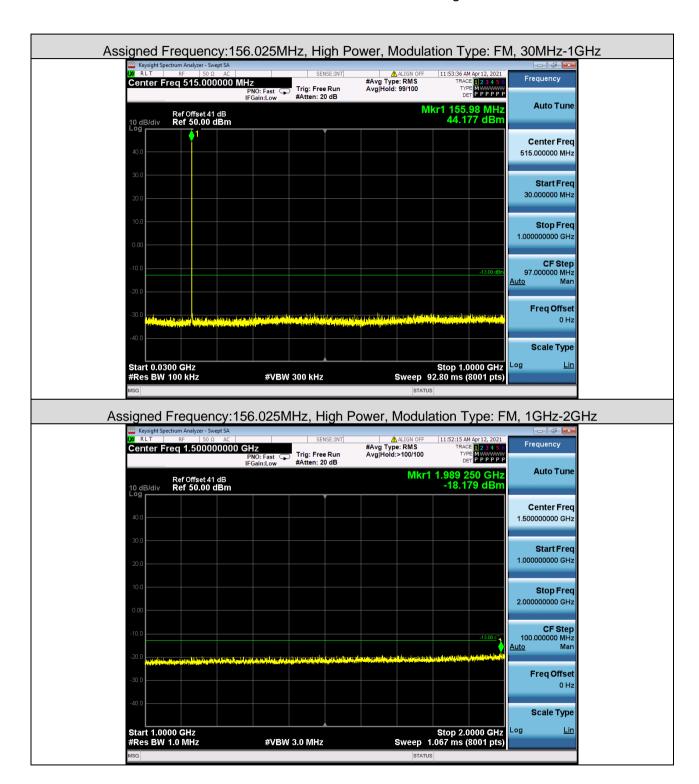
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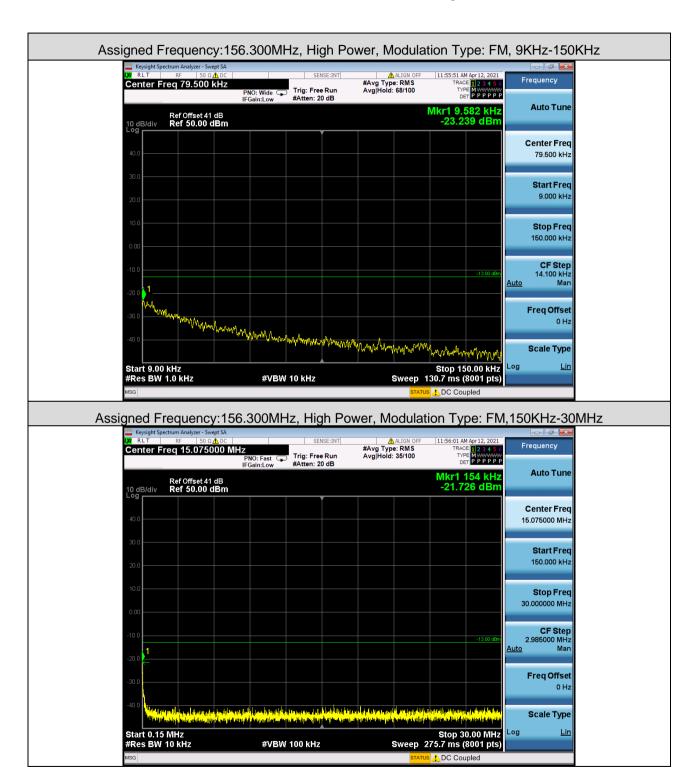
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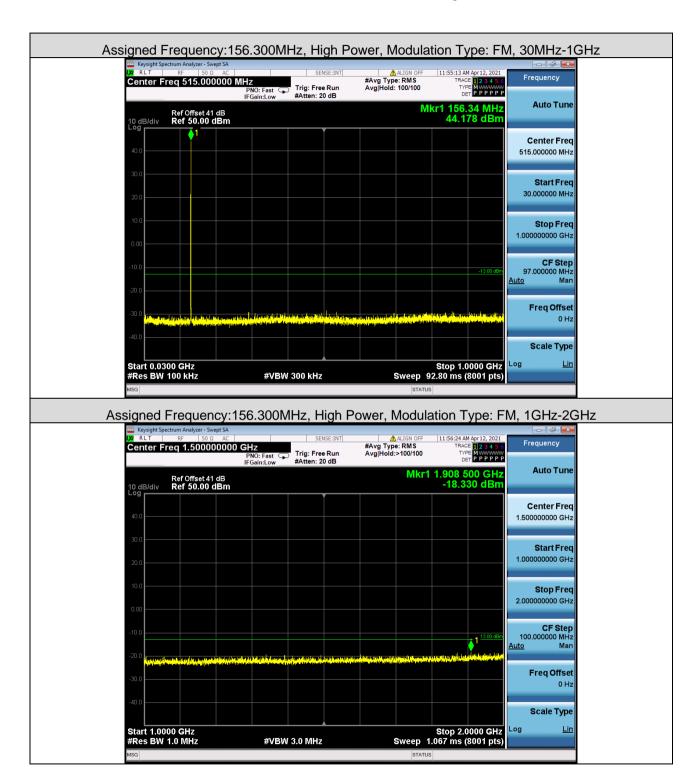
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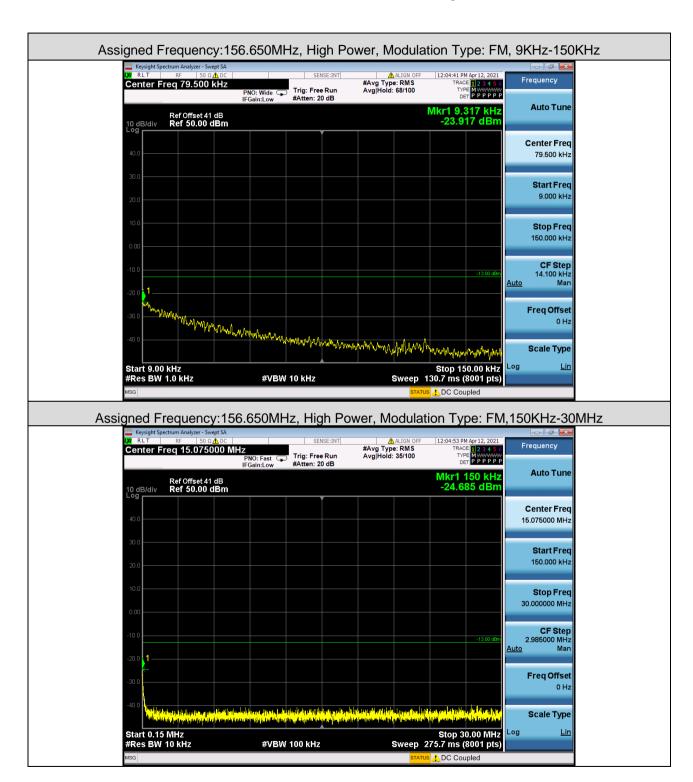
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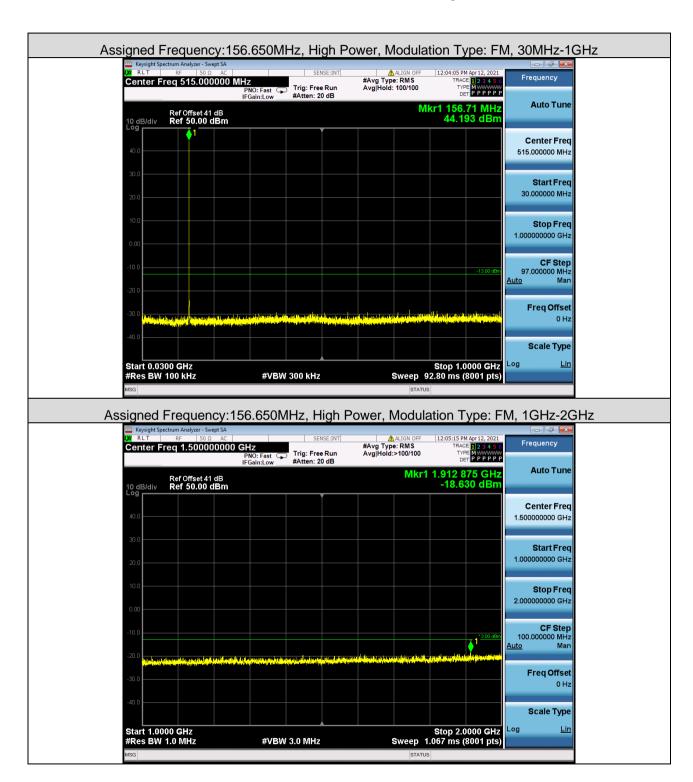
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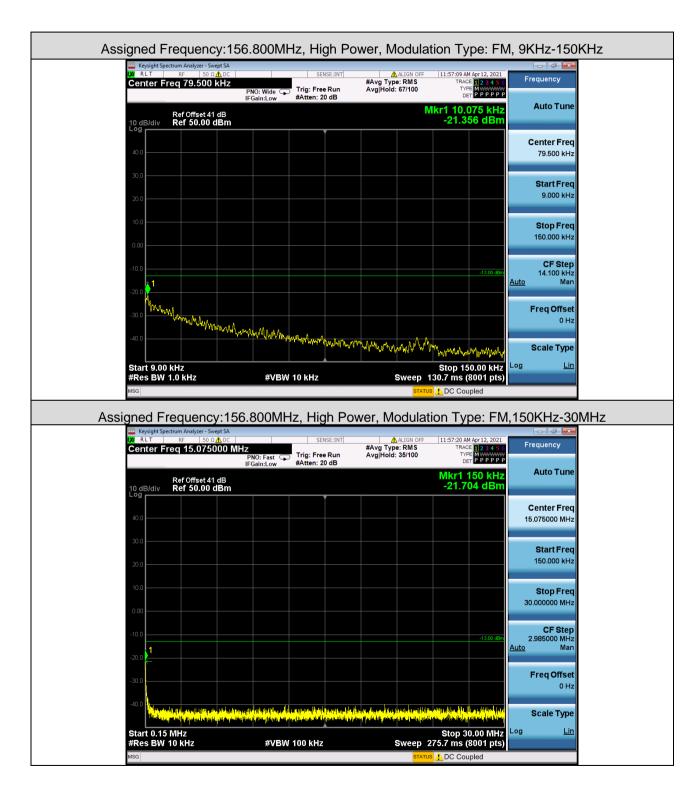
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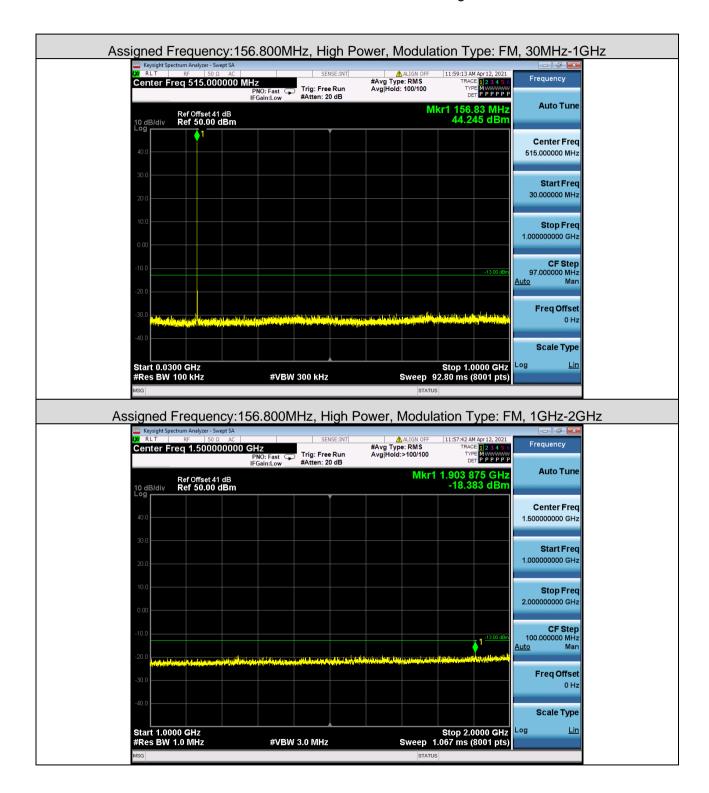
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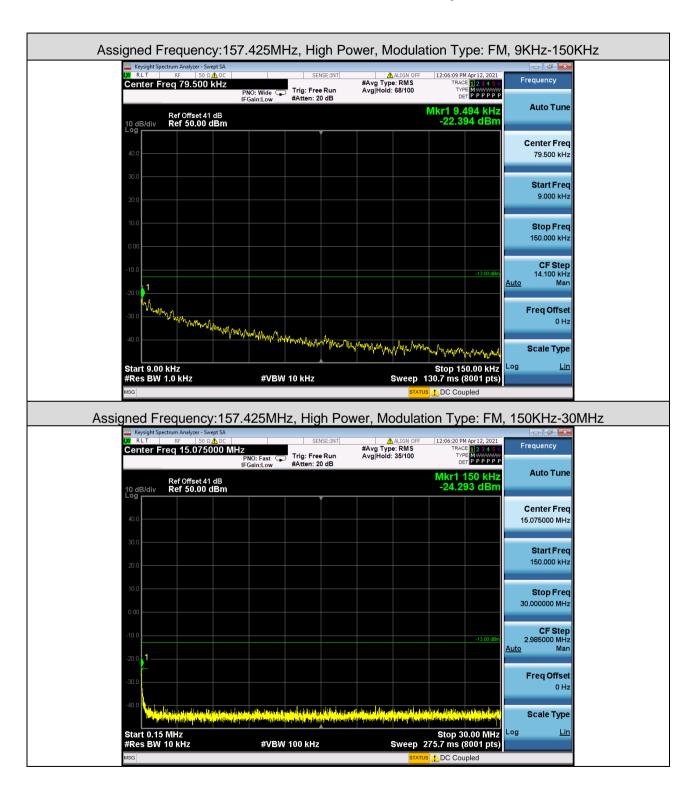
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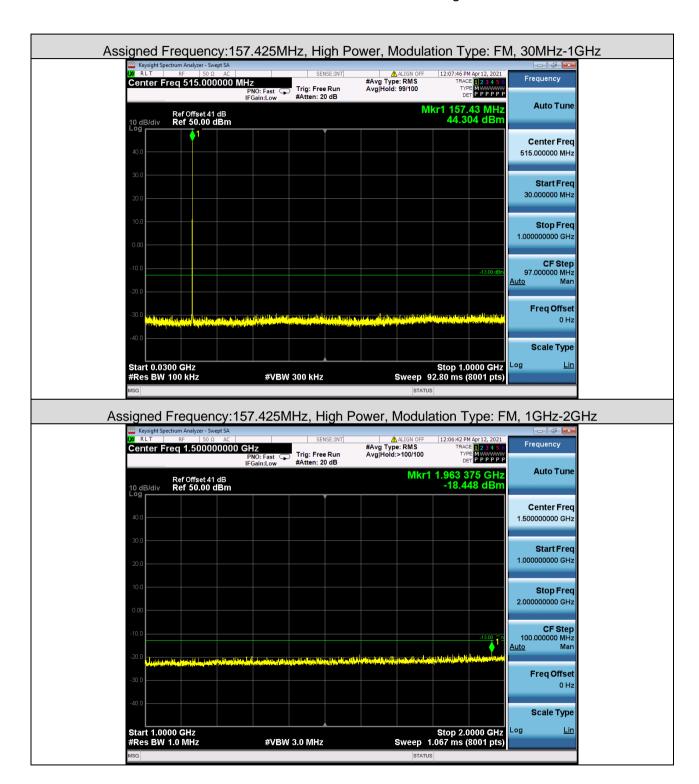
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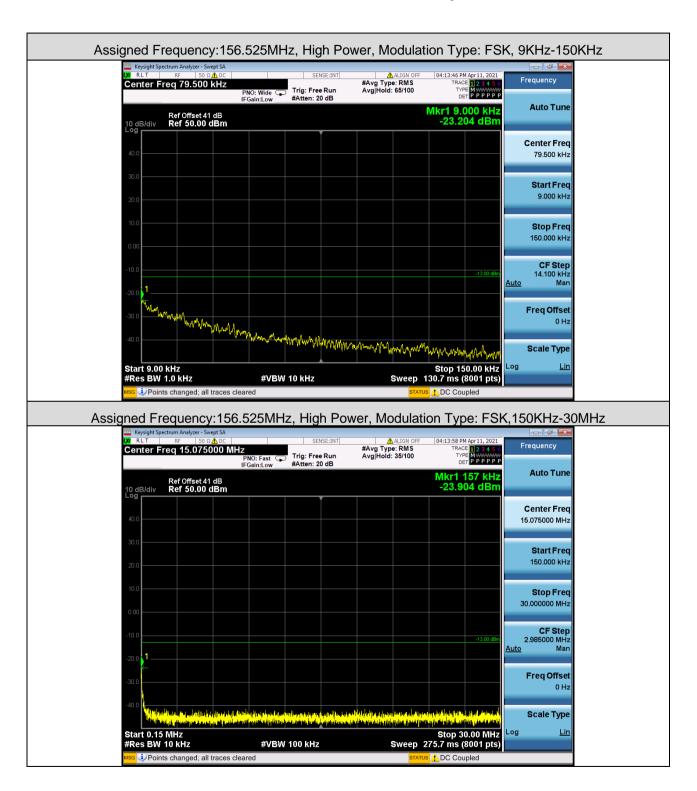
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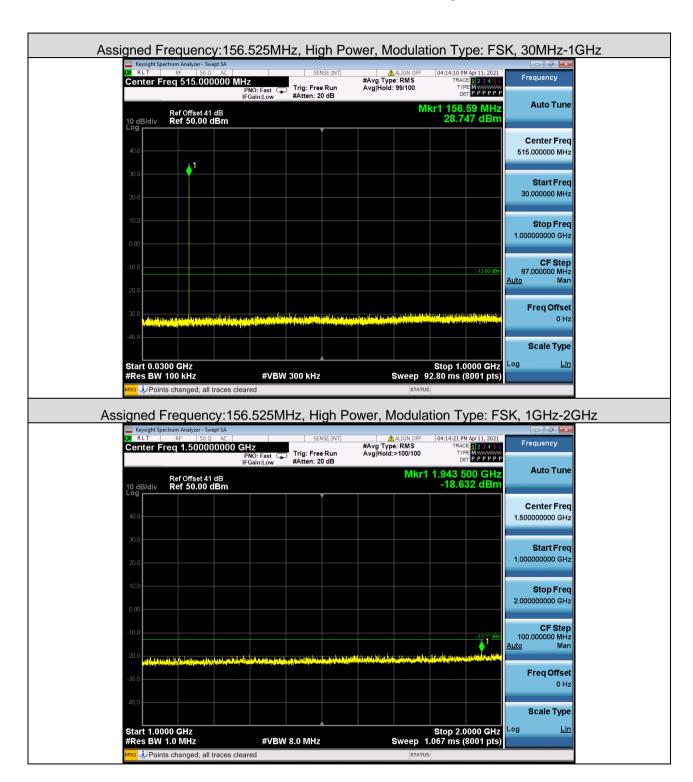
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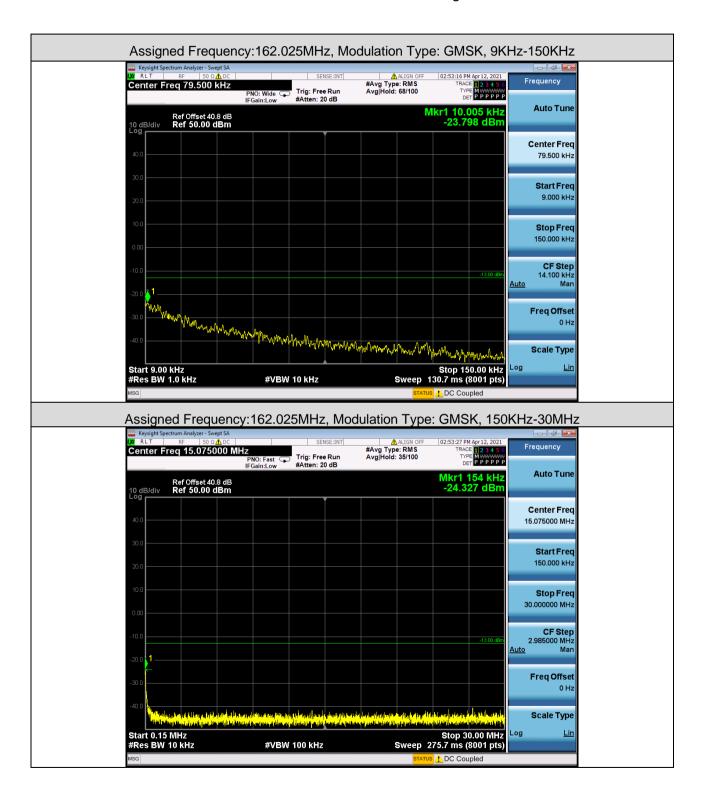
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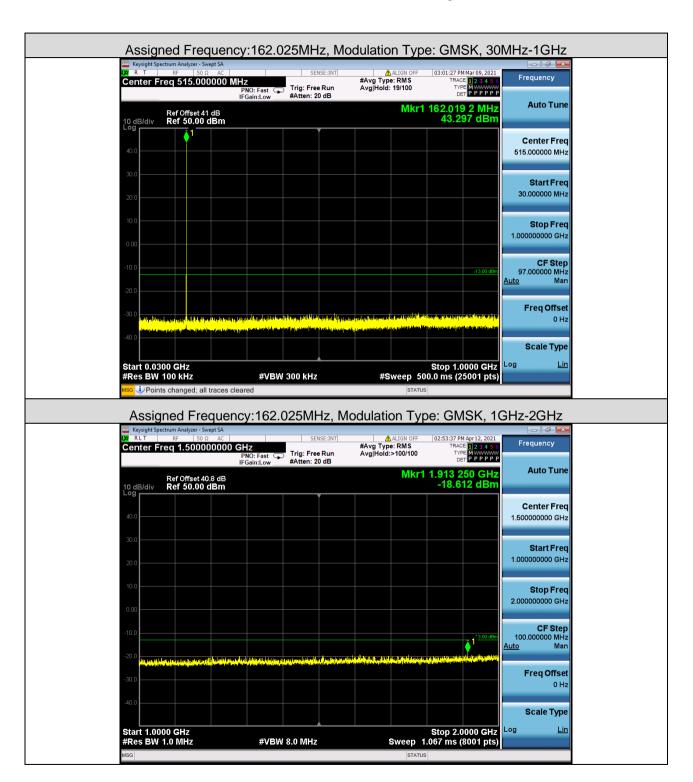
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#### 5. Transmitter Unwanted Emission(Radiated)

	Assigned Frequency:156.025MHz, Modulation Type: FM								
Frequency	S.G. Power	Cable loss	Antenna	EIRP	Limit	Over	Polarization		
(MHz)	(dBm)	(dB)	Gain(dBi)	(dBm)	(dBm)	Limit(dB)	(H/V)	Result	
1249.39	-51.37	0.43	1.9	-49.9	-13	-36.9	Horizontal	Pass	
1426.24	-49.65	0.43	1.9	-48.18	-13	-35.18	Horizontal	Pass	
1557.44	-54.79	0.52	6	-49.31	-13	-36.31	Horizontal	Pass	
1245.29	-49.56	0.43	1.9	-48.09	-13	-35.09	Vertical	Pass	
1429.89	-45.99	0.43	1.9	-44.52	-13	-31.52	Vertical	Pass	
1551.43	-54.27	0.52	6	-48.79	-13	-35.79	Vertical	Pass	

Assigned Frequency:162.025MHz, Modulation Type: GMSK								
Frequency	S.G. Power	Cable loss	Antenna	EIRP	Limit	Over	Polarization	Result
(MHz)	(dBm)	(dB)	Gain(dBi)	(dBm)	(dBm)	Limit(dB)	(H/V)	Nesuit
1294.54	-50.28	0.43	1.9	-48.81	-13	-35.81	Horizontal	Pass
1460.27	-49.6	0.43	1.9	-48.13	-13	-35.13	Horizontal	Pass
1611.47	-53.44	0.52	6	-47.96	-13	-34.96	Horizontal	Pass
1296.5	-49.88	0.43	1.9	-48.41	-13	-35.41	Vertical	Pass
1466.75	-44.11	0.43	1.9	-42.64	-13	-29.64	Vertical	Pass
1607.36	-49.01	0.52	6	-43.53	-13	-30.53	Vertical	Pass

	Assigned Frequency:156.525MHz, Modulation Type: FSK								
Frequency	S.G. Power	Cable loss	Antenna	EIRP	Limit	Over	Polarization	,	
(MHz)	(dBm)	(dB)	Gain(dBi)	(dBm)	(dBm)	Limit(dB)	(H/V)	Result	
1238.58	-49.38	0.43	1.9	-47.91	-13	-34.91	Horizontal	Pass	
1442.54	-50.1	0.43	1.9	-48.63	-13	-35.63	Horizontal	Pass	
1565.35	-52.89	0.52	6	-47.41	-13	-34.41	Horizontal	Pass	
1259.77	-47.75	0.43	1.9	-46.28	-13	-33.28	Vertical	Pass	
1451.23	-45.1	0.43	1.9	-43.63	-13	-30.63	Vertical	Pass	
1567.44	-48.02	0.52	6	-42.54	-13	-29.54	Vertical	Pass	

Note: All modes and modulation have been tested and we found the three frequencies shown above has the worst test result. Only record the worst test result.

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#### 6. Modulation Characteristics

Test Frequency (MHz)	Modulation Frequency (Hz)	Upper Limit	Lower Limit	Modulation Index(dB) Relative. To 1KHz	Verdict
	300	-9.5	-13.5	-12.5	Pass
	500	-5	-9	-7.7	Pass
	800	-0.9	-4.9	-3.2	Pass
	1000	1	-3	0	Pass
156.025	1500	4.5	0.5	+2.3	Pass
	1800	6.1	2.1	+4.3	Pass
	2000	7	3	+5.5	Pass
	2500	9	5	+8.7	Pass
	3000	10.5	6.5	+8.6	Pass
	300	-9.5	-13.5	-12.5	Pass
	500	-5	-9	-8.5	Pass
	800	-0.9	-4.9	-3.7	Pass
	1000	1	-3	0	Pass
156.525	1500	4.5	0.5	+2.6	Pass
	1800	6.1	2.1	+4.8	Pass
	2000	7	3	+6.2	Pass
	2500	9	5	+8.7	Pass
	3000	10.5	6.5	+9.6	Pass



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Test Frequency (MHz)	Modulation Frequency (Hz)	Input level	Maximum De	viation(KHz) Low Power	Limit (KHz)	Verdict
	100	20dB 3KHz	1.0	1.1	≤5.0	Pass
	200	20dB 3KHz	2.9	2.9	≤5.0	Pass
	300	20dB 3KHz	3.5	3.6	≤5.0	Pass
	400	20dB 3KHz	3.6	3.6	≤5.0	Pass
156.025	500	20dB 3KHz	4.1	4.1	≤5.0	Pass
156.025	1000	20dB 3KHz	3.5	3.7	≤5.0	Pass
	1500	20dB 3KHz	3.2	3.4	≤5.0	Pass
	2000	20dB 3KHz	4.1	4.1	≤5.0	Pass
	2500	20dB 3KHz	4.1	4.1	≤5.0	Pass
	3000	20dB 3KHz	4.2	4.2	≤5.0	Pass
	100	20dB 3KHz	1.5	1.6	≤5.0	Pass
	200	20dB 3KHz	2.5	2.7	≤5.0	Pass
	300	20dB 3KHz	4.1	4.2	≤5.0	Pass
	400	20dB 3KHz	4.3	4.4	≤5.0	Pass
156.525	500	20dB 3KHz	4.3	4.4	≤5.0	Pass
150.525	1000	20dB 3KHz	4.2	4.3	≤5.0	Pass
	1500	20dB 3KHz	4.1	4.2	≤5.0	Pass
	2000	20dB 3KHz	4.1	4.2	≤5.0	Pass
	2500	20dB 3KHz	4.3	4.5	≤5.0	Pass
	3000	20dB 3KHz	4.5	4.6	≤5.0	Pass



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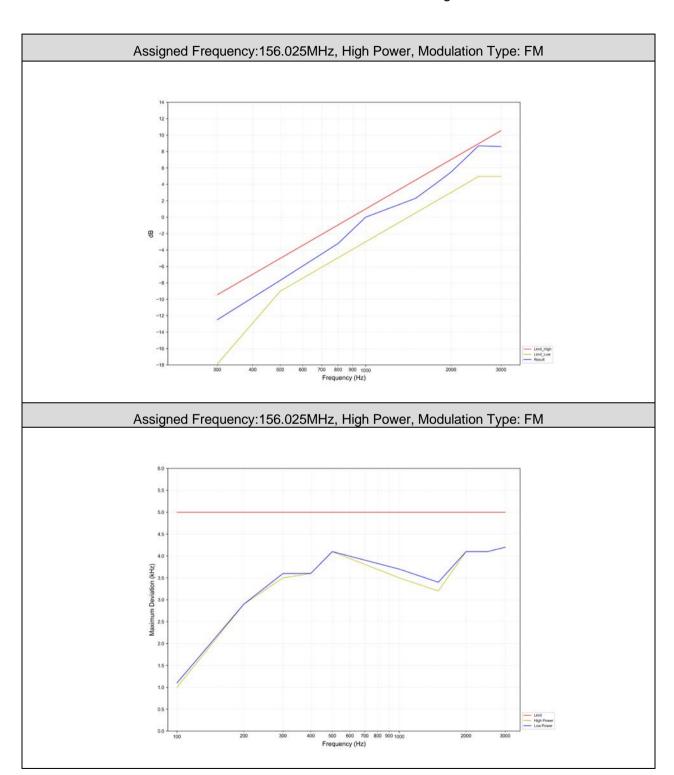
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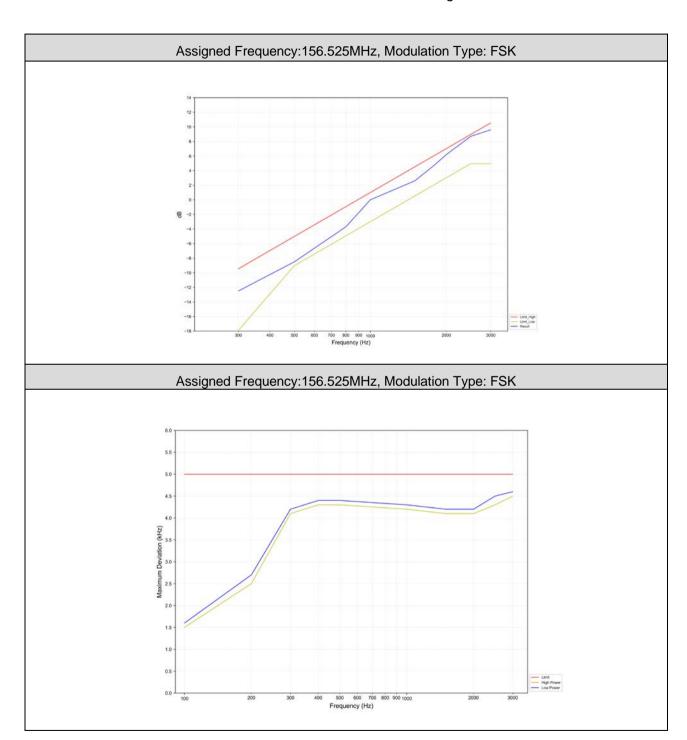
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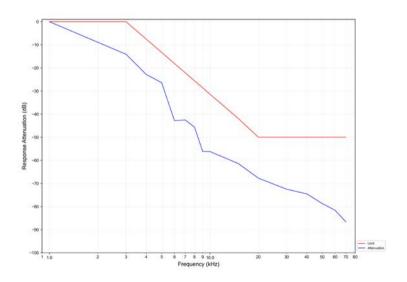


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### Low Pass Filter Response

Assigned Frequency:156.025MHz, High Power, Modulation Type: FM				
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)		
1	0	/		
3	-14.1	0		
4	-22.8	-7.5		
5	-26.4	-13.3		
6	-42.8	-18.1		
7	-42.5	-22.1		
8	-45.6	-25.6		
9	-56.2	-28.6		
10	-56.2	-31.4		
15	-61.4	-41.9		
20	-67.7	-50.0		
30	-72.5	-50.0		
40	-74.5	-50.0		
50	-78.7	-50.0		
60	-81.6	-50.0		
70	-86.6	-50.0		





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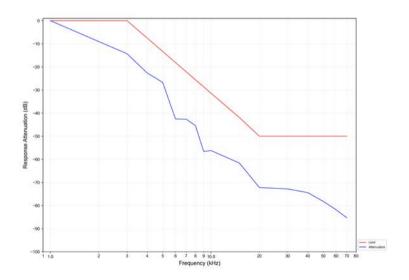
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Assigned Frequency:156.525MHz, High Power, Modulation Type: FSK					
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)			
1	0	/			
3	-14.3	0			
4	-22.6	-7.5			
5	-26.7	-13.3			
6	-42.5	-18.1			
7	-42.6	-22.1			
8	-45.4	-25.6			
9	-56.6	-28.6			
10	-56.2	-31.4			
15	-61.6	-41.9			
20	-72.2	-50.0			
30	-72.8	-50.0			
40	-74.4	-50.0			
50	-78.2	-50.0			
60	-81.8	-50.0			
70	-85.3	-50.0			





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### 7. Transmitter Power

Test Voltage (V Dc)	Test Frequency (MHz)	Power Level	Output Power(dBm)	Output Power(W)	Limit
12	156.025	Max	43.65	23.17	25W
		Low	29.23	0.84	1W
	156.300	Max	43.79	23.93	25W
		Low	29.31	0.85	1W
	156.650	Max	43.75	23.71	25W
		Low	29.79	0.95	1W
	156.800	Max	43.86	24.32	25W
		Low	29.18	0.83	1W
	157.425	Max	43.91	24.60	25W
		Low	29.07	0.81	1W
	156.525	Max	43.84	24.21	25W
		Low	28.87	0.77	1W
	162.025 /	,	32.82	1.91	See Note
		/	ERP:36.67	ERP:4.65	See Note

### Note:

1). The high power is 25W, the low power is 1W for VHF/DSC, that declared by manufacturer.



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### 8. Transmitter Carrier Power Reduction

Test Voltage (V Dc)	Test Frequency (MHz)	Power Level	Default Power (W)	Limit	Result
12	156.375	Low	0.81	one watt or less	Pass
	156.525	Low	0.79	one watt or less	Pass
	156.650	Low	0.80	one watt or less	Pass

### Note:

- 1). All transmitters units must be capable of reducing the carrier power to one watt or less;
- 2).All transmitters must automatically reduce the carrier power to one watt or less when transmitting on 156.375 MHz or 156.650 MHz, and must be provided with a manual override switch which when held by an operator will permit full carrier power operation on 156.375 MHz and 156.650 MHz;



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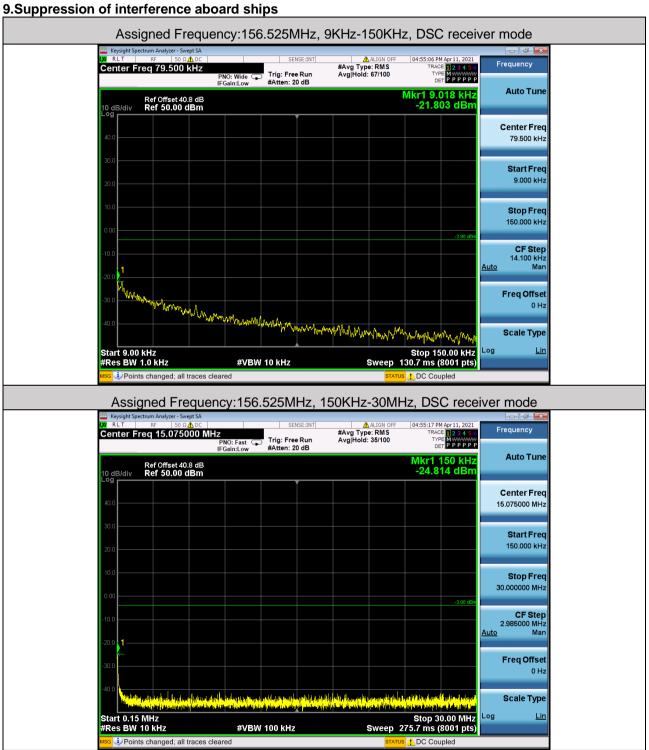
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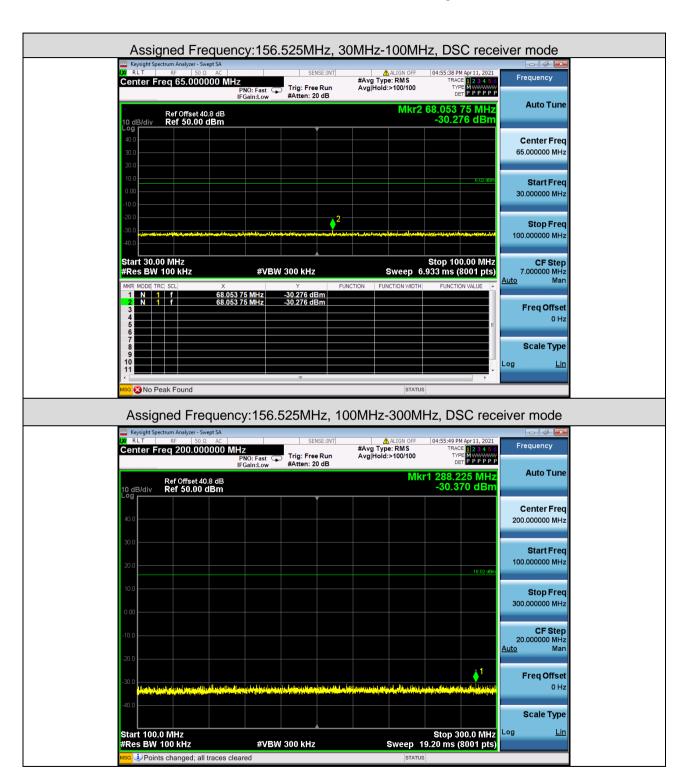
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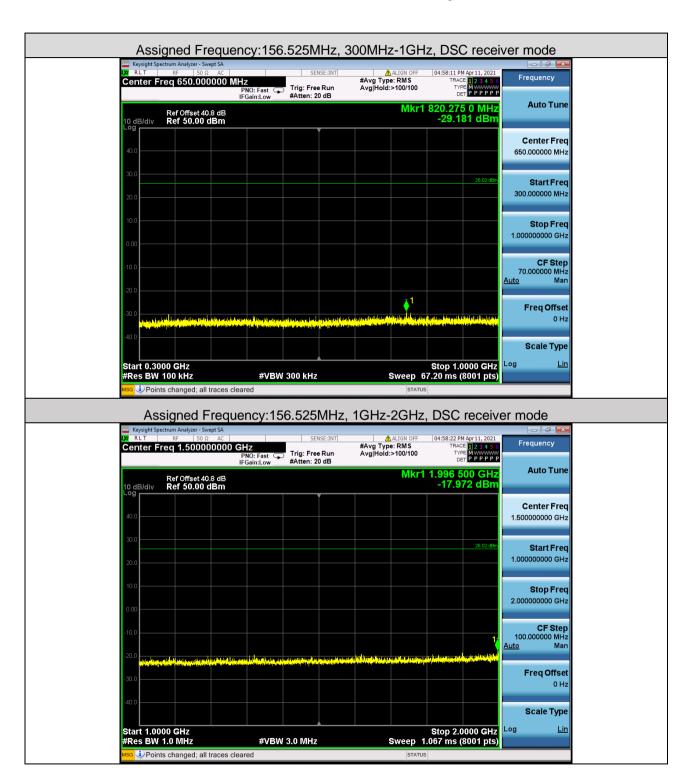
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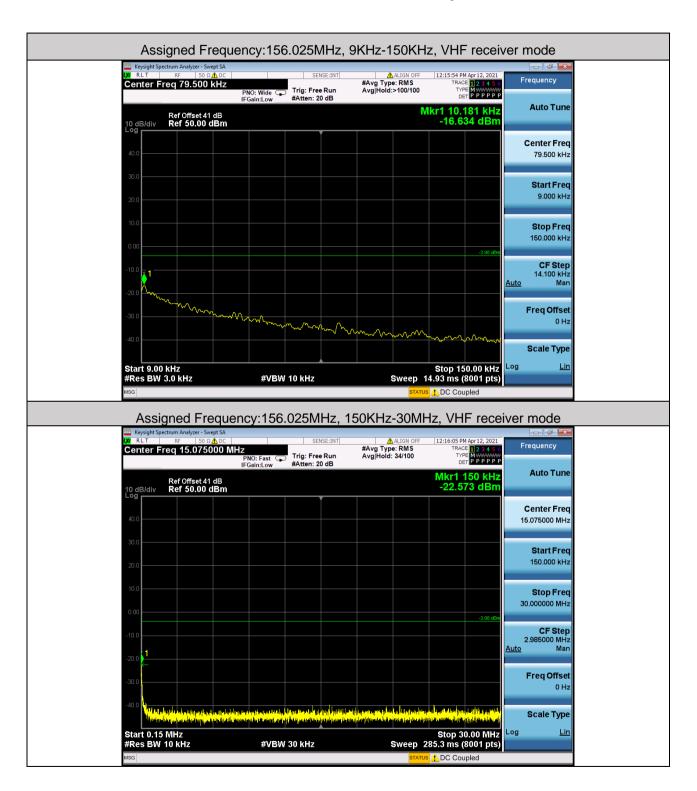
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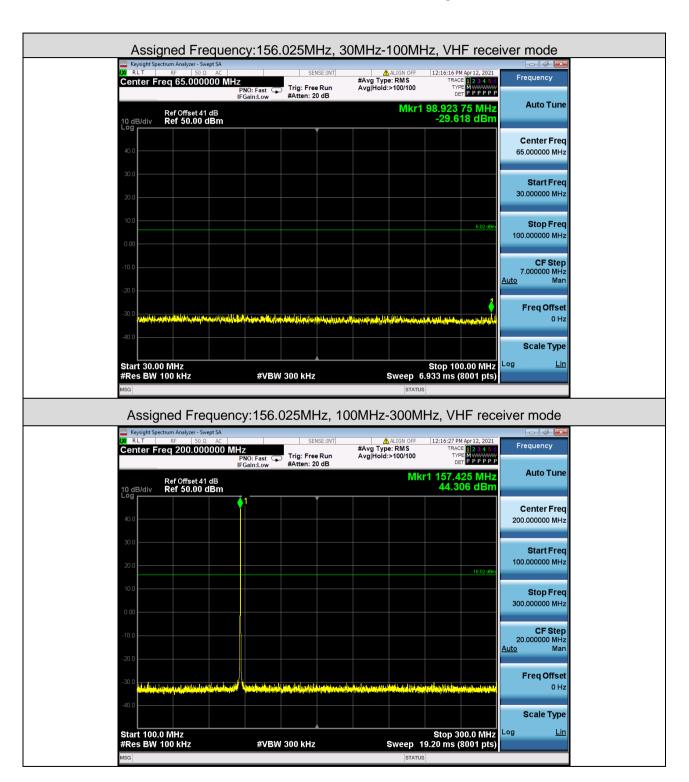
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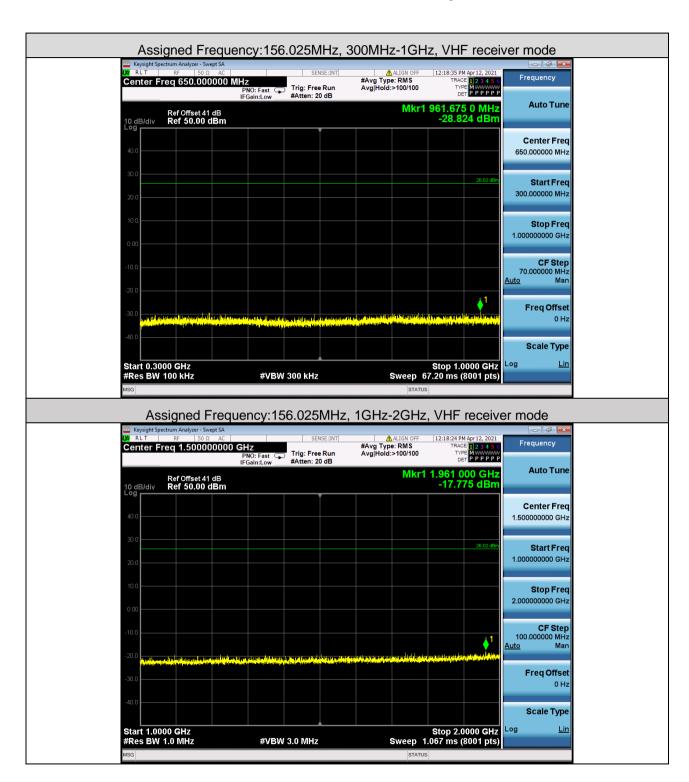
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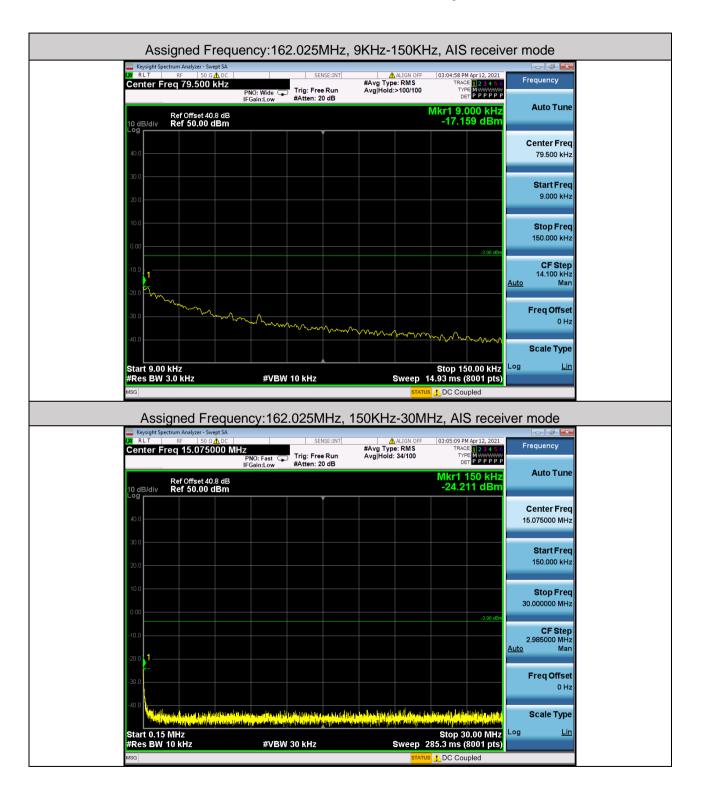
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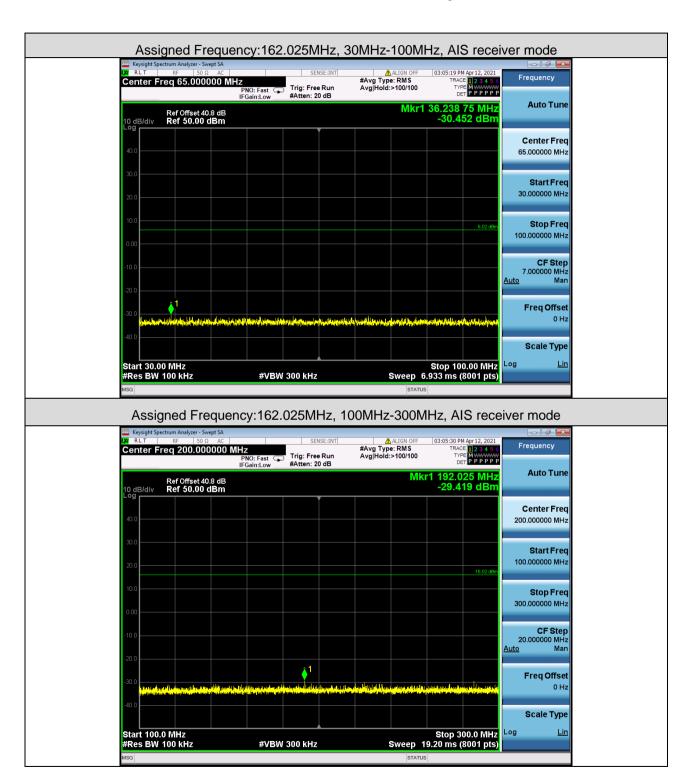
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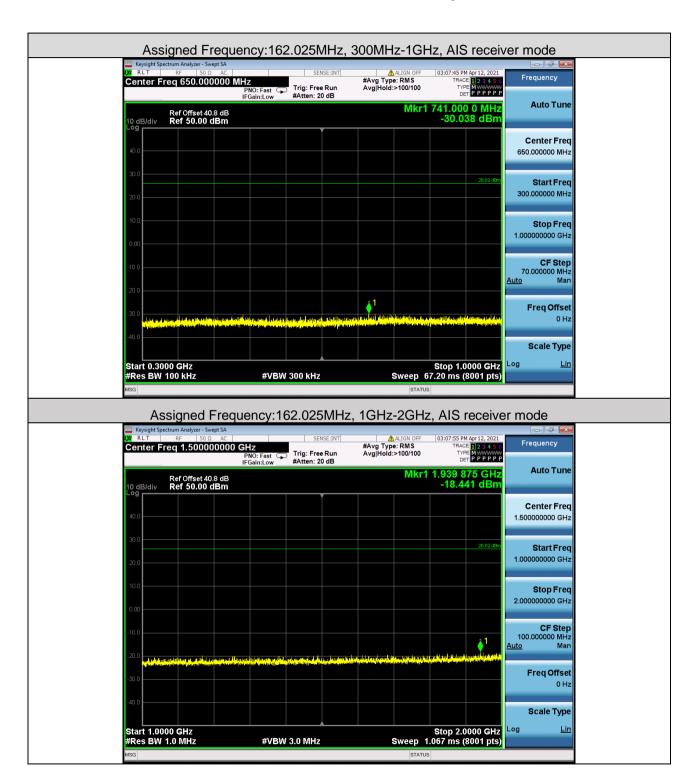
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