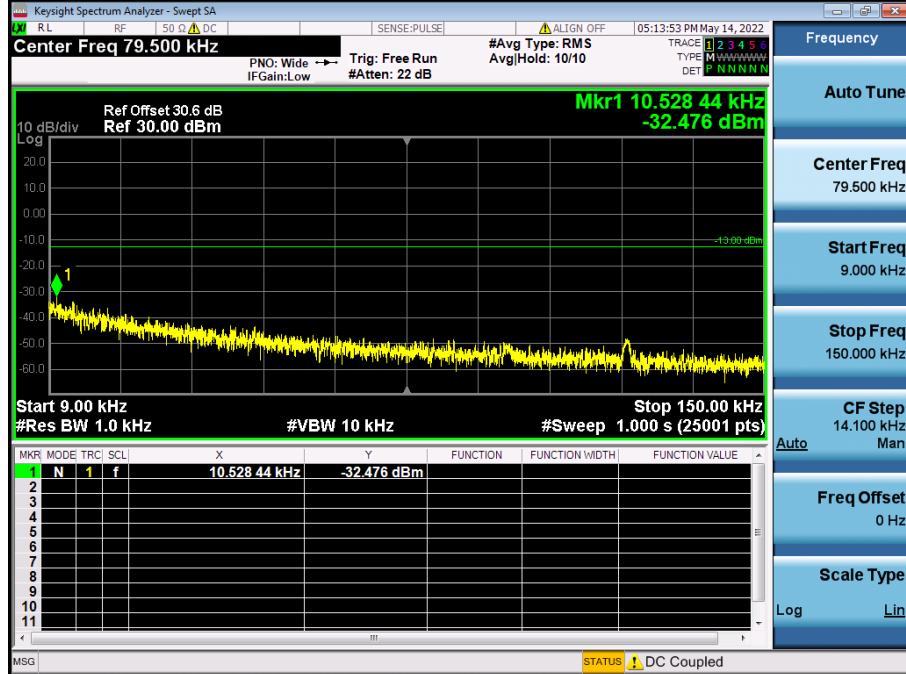
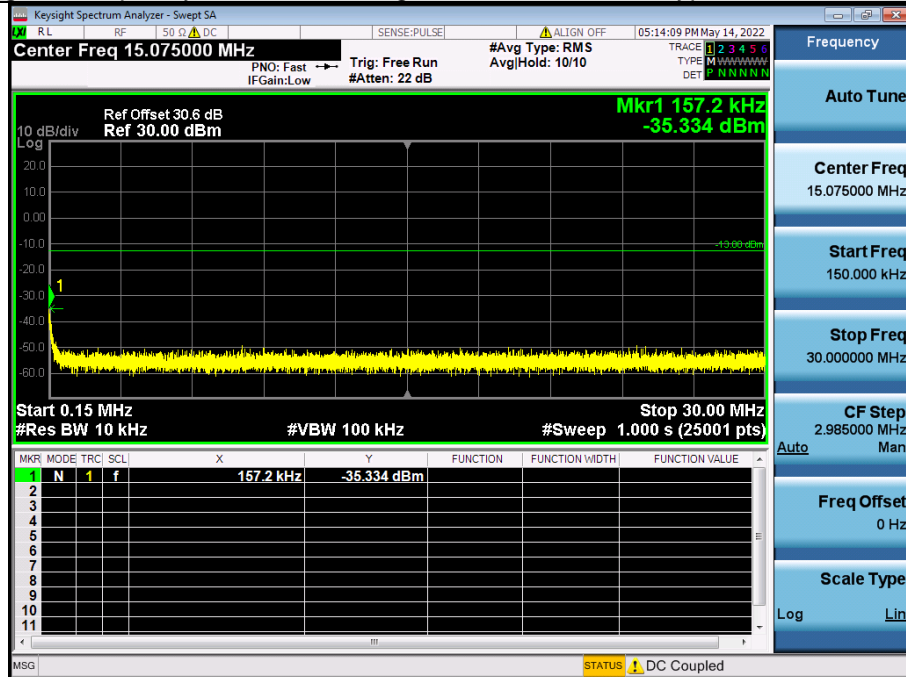


## 4. Conducted Spurious Emission

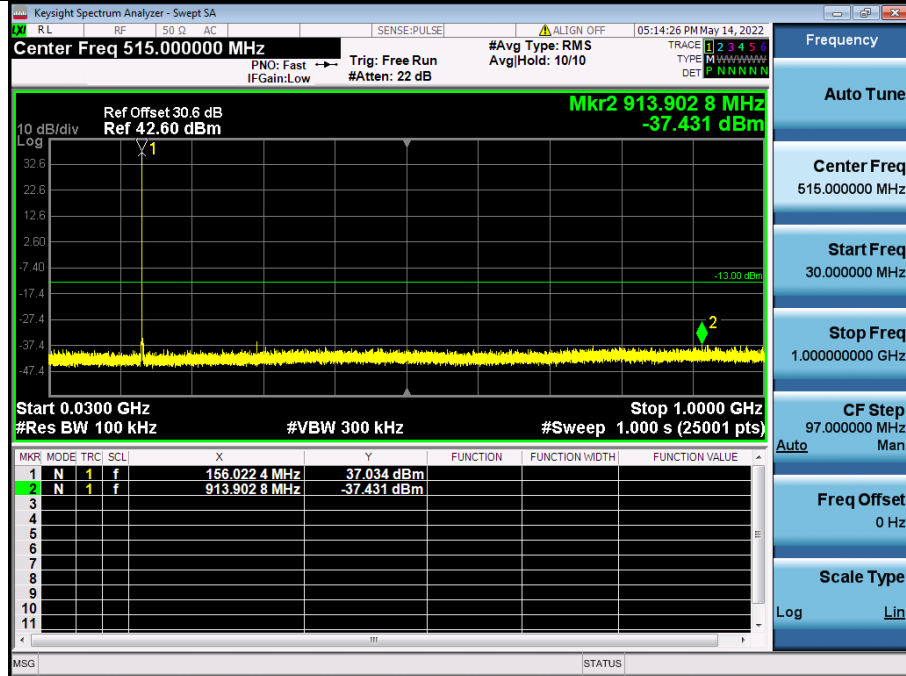
Assigned Frequency: 156.025 MHz, High Power, Modulation Type: FM, 9 KHz-150 KHz



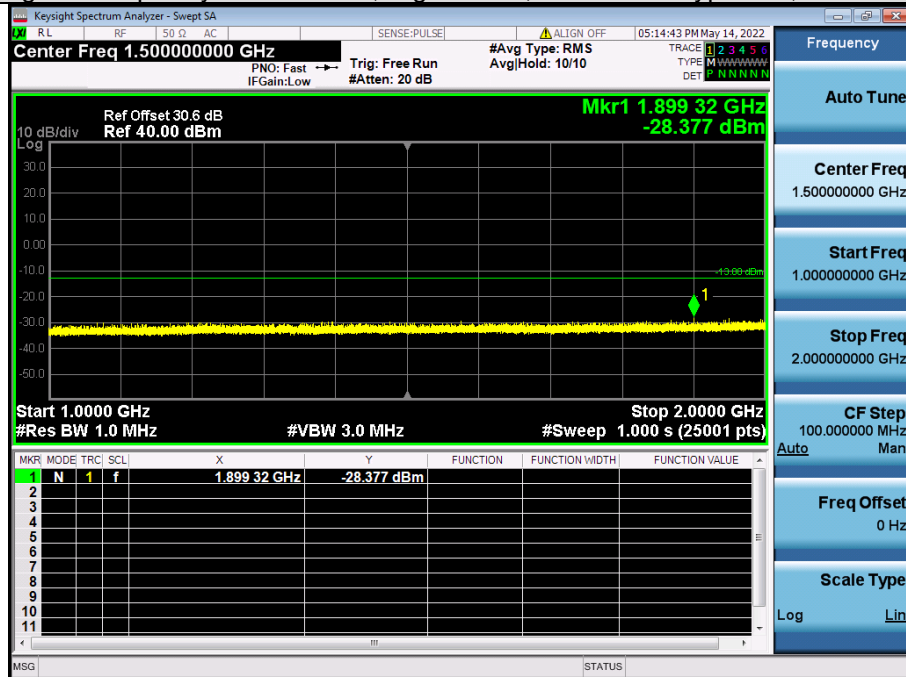
Assigned Frequency: 156.025 MHz, High Power, Modulation Type: FM, 150 KHz-30 MHz



Assigned Frequency:156.025MHz, High Power, Modulation Type: FM, 30MHz-1GHz



Assigned Frequency:156.025MHz, High Power, Modulation Type: FM, 1GHz-2GHz

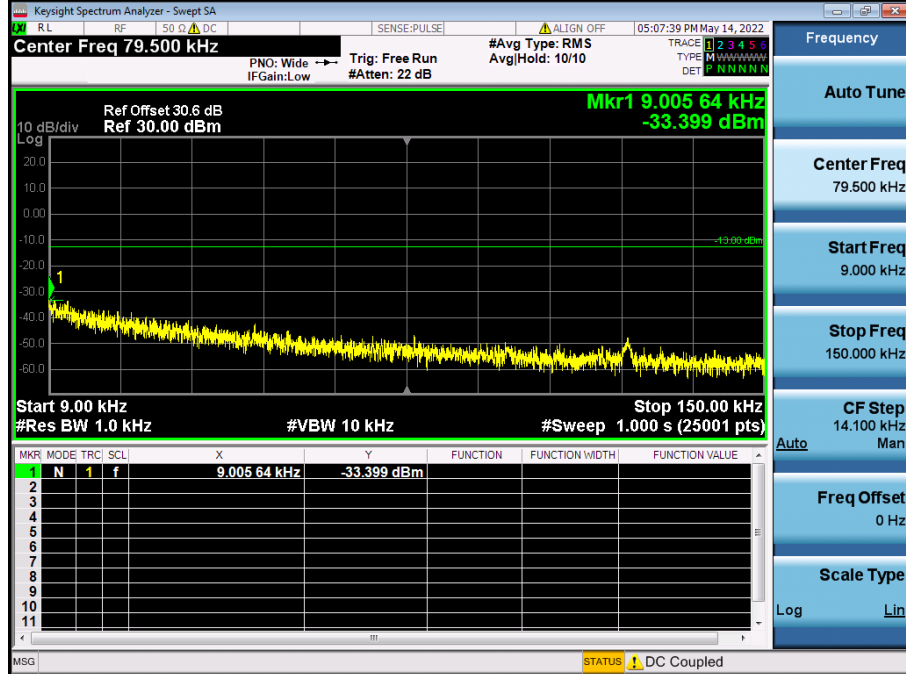


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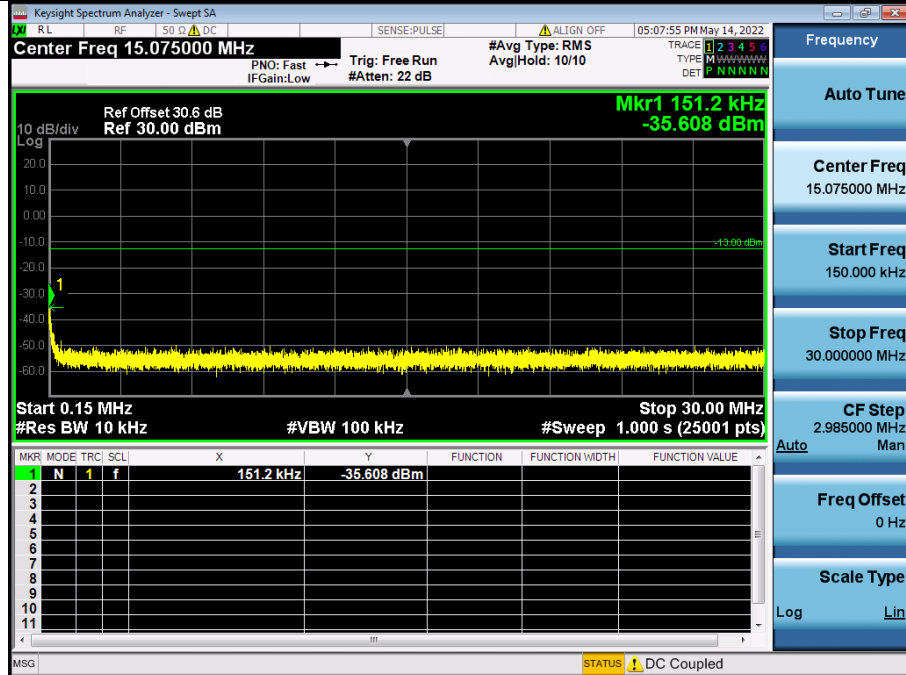
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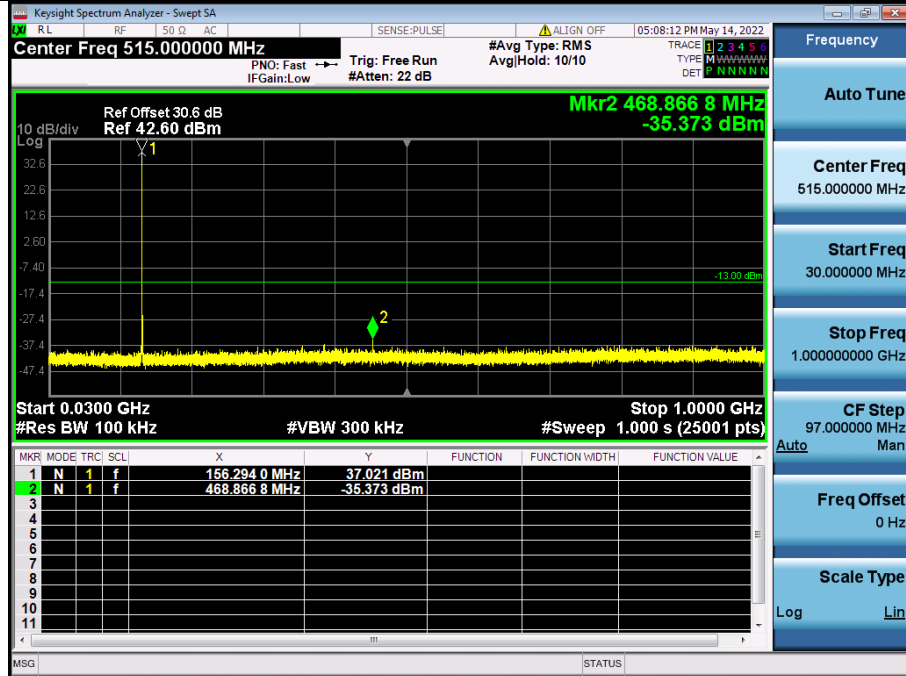
Assigned Frequency: 156.300 MHz, High Power, Modulation Type: FM, 9 KHz-150 KHz



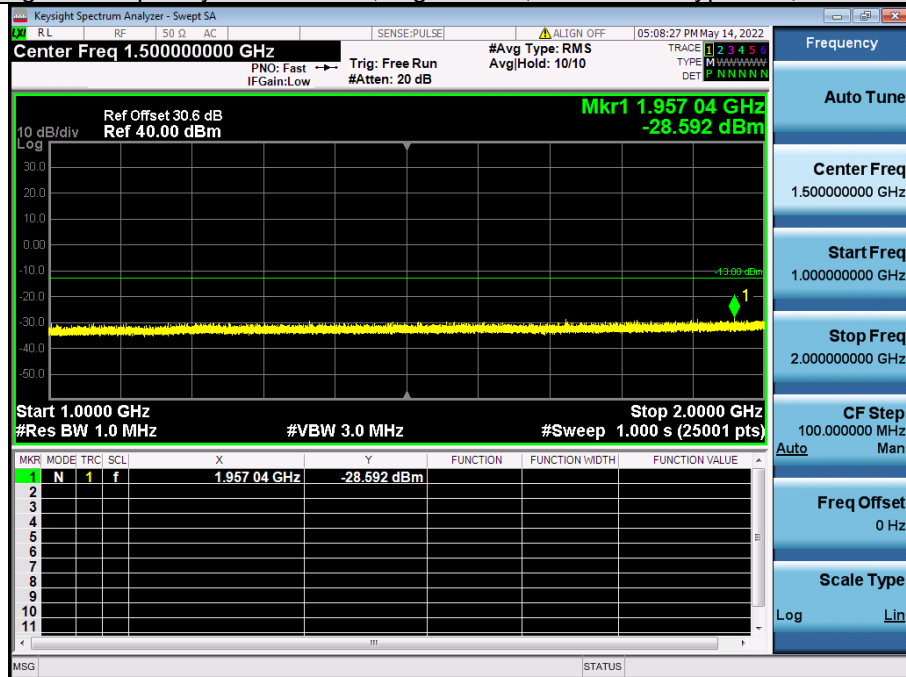
Assigned Frequency: 156.300 MHz, High Power, Modulation Type: FM, 150 KHz-30 MHz



Assigned Frequency: 156.300MHz, High Power, Modulation Type: FM, 30MHz-1GHz

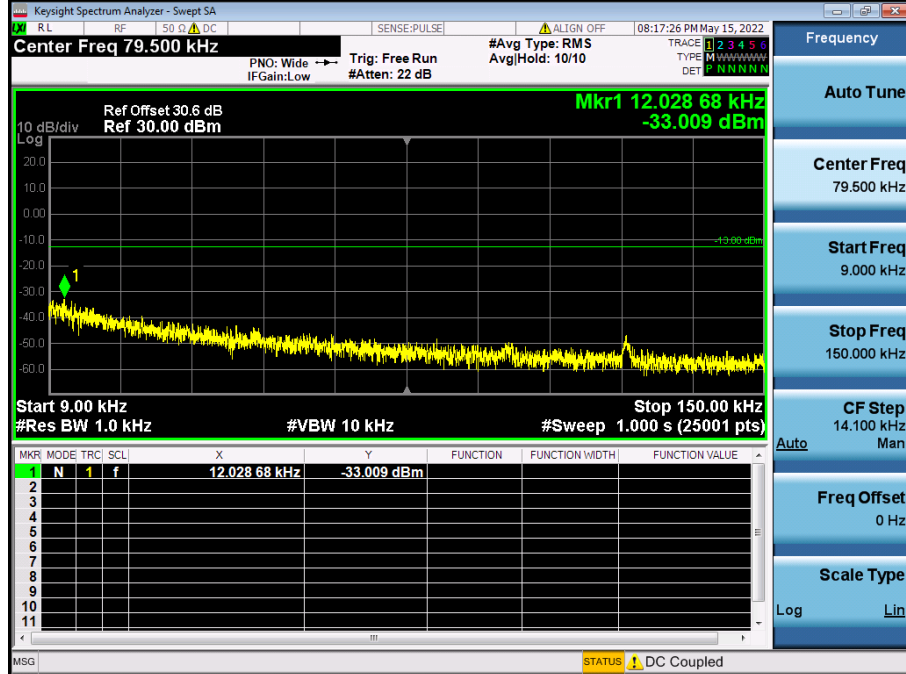


Assigned Frequency: 156.300MHz, High Power, Modulation Type: FM, 1GHz-2GHz

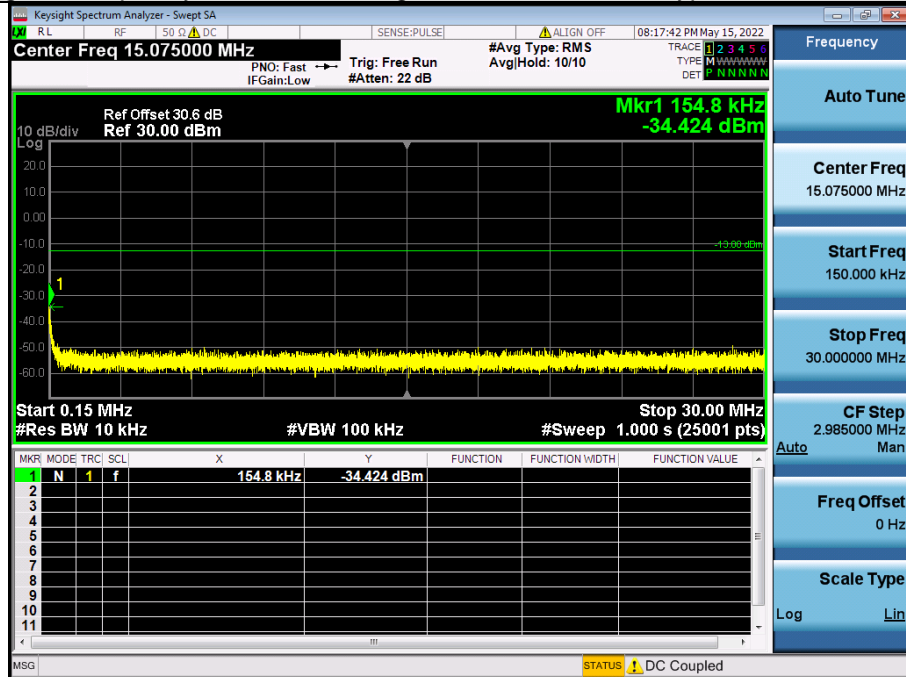




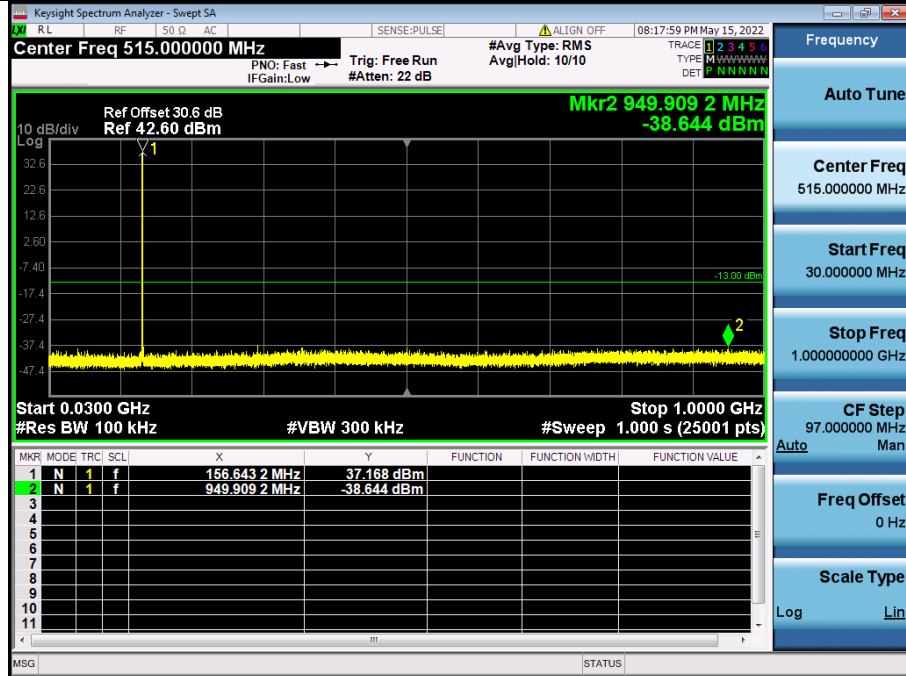
Assigned Frequency: 156.650 MHz, High Power, Modulation Type: FM, 9 KHz-150 KHz



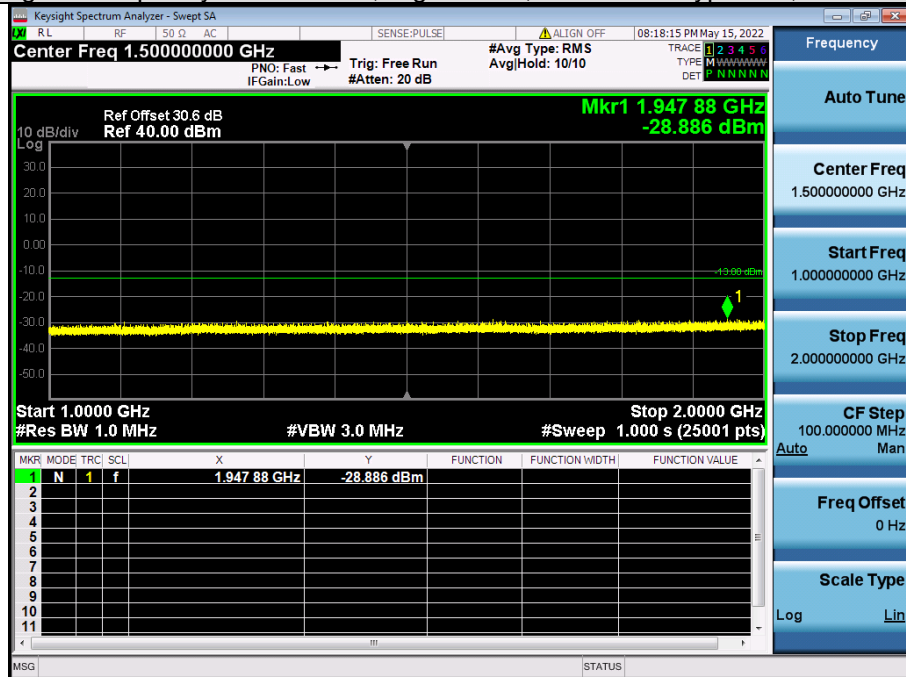
Assigned Frequency: 156.650 MHz, High Power, Modulation Type: FM, 150 KHz-30 MHz



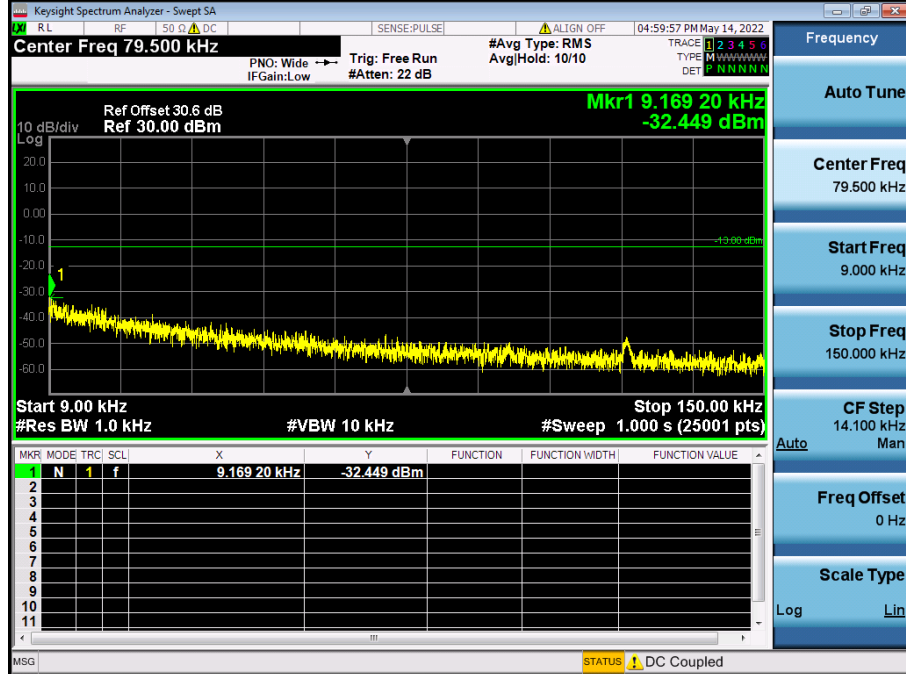
Assigned Frequency: 156.650 MHz, High Power, Modulation Type: FM, 30 MHz-1 GHz



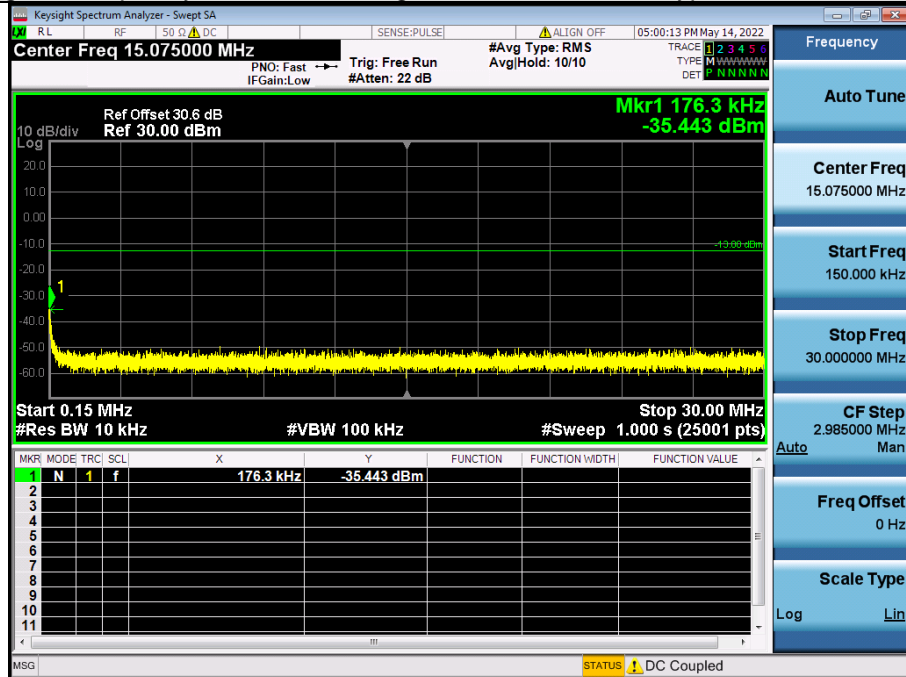
Assigned Frequency: 156.650 MHz, High Power, Modulation Type: FM, 1 GHz-2 GHz



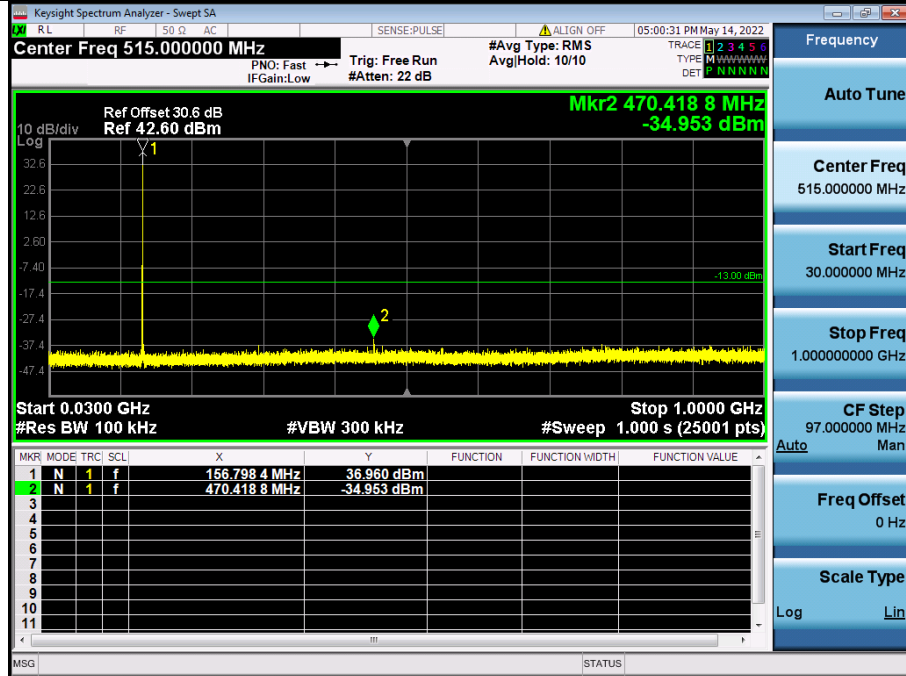
Assigned Frequency: 156.800 MHz, High Power, Modulation Type: FM, 9 KHz-150 KHz



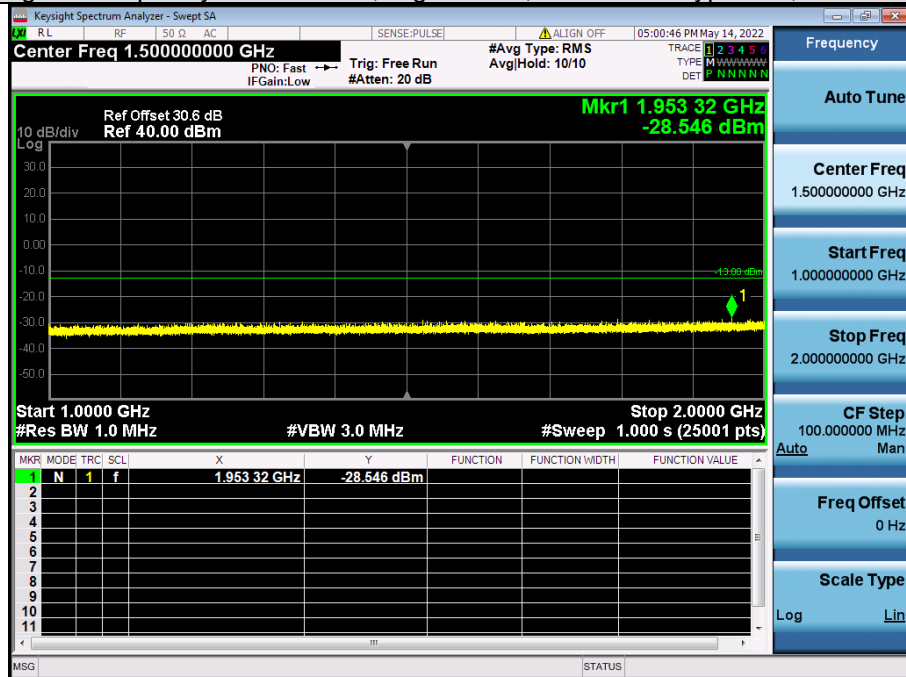
Assigned Frequency: 156.800 MHz, High Power, Modulation Type: FM, 150 KHz-30 MHz



Assigned Frequency: 156.800MHz, High Power, Modulation Type: FM, 30MHz-1GHz

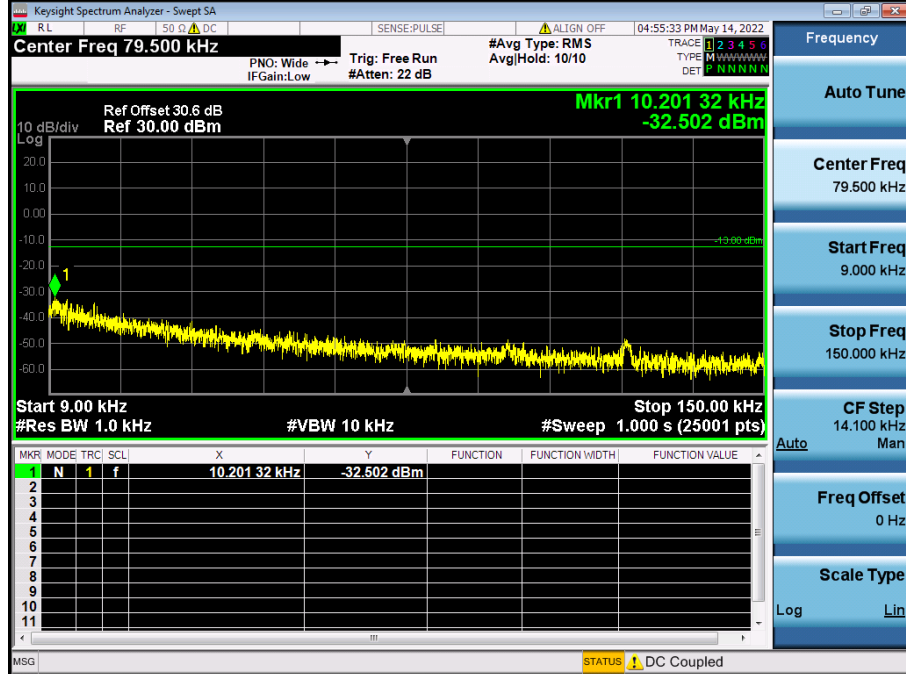


Assigned Frequency: 156.800MHz, High Power, Modulation Type: FM, 1GHz-2GHz

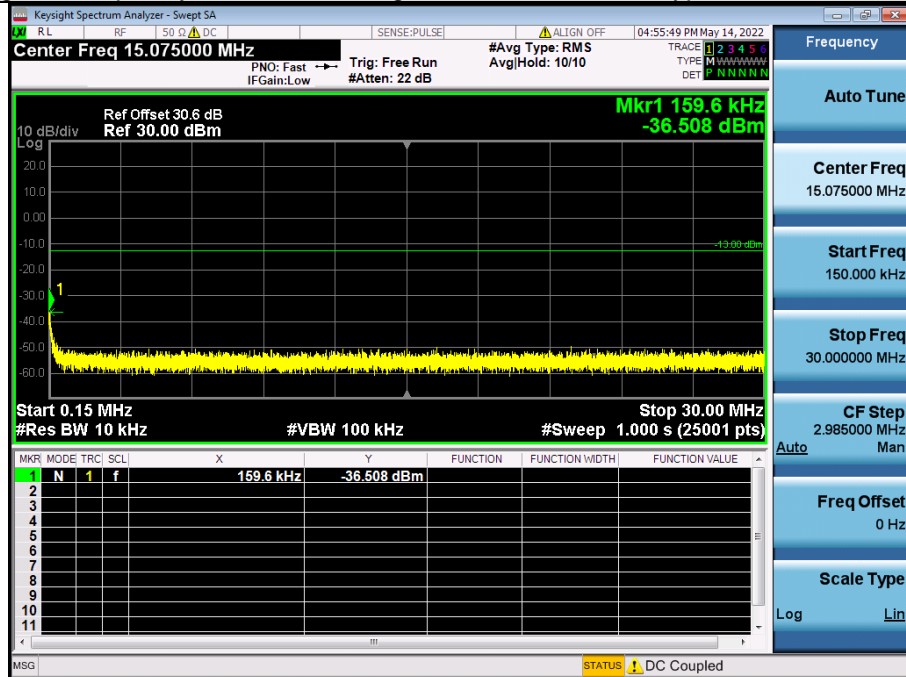




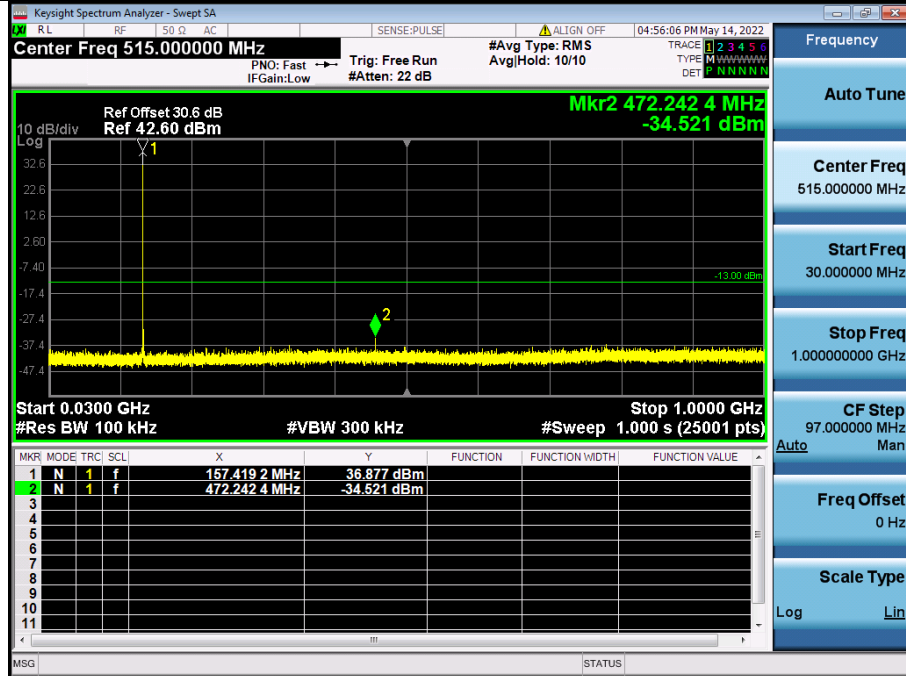
Assigned Frequency: 157.425MHz, High Power, Modulation Type: FM, 9KHz-150KHz



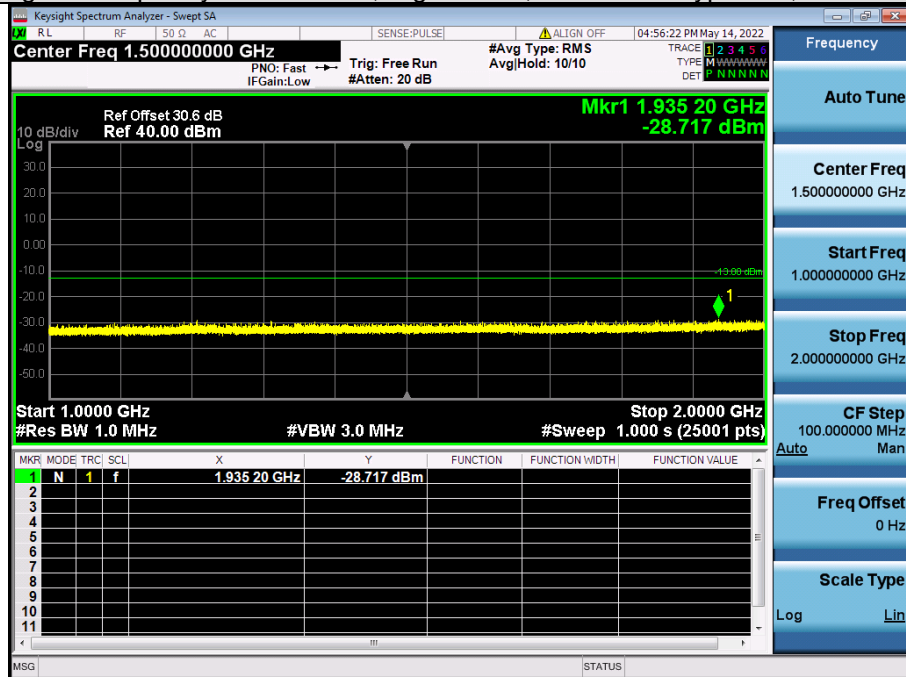
Assigned Frequency: 157.425MHz, High Power, Modulation Type: FM, 150KHz-30MHz



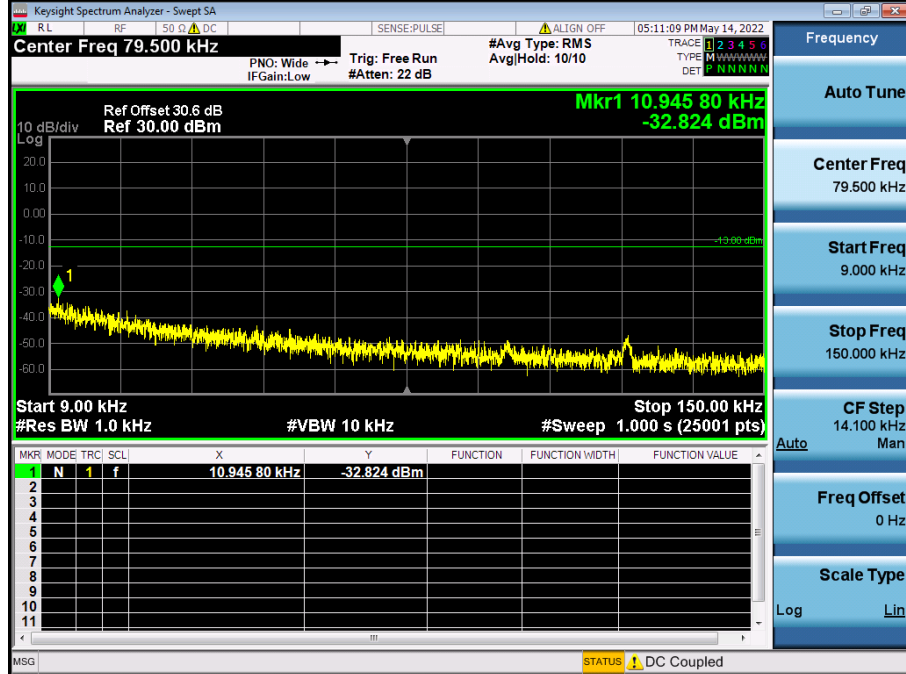
Assigned Frequency:157.425MHz, High Power, Modulation Type: FM, 30MHz-1GHz



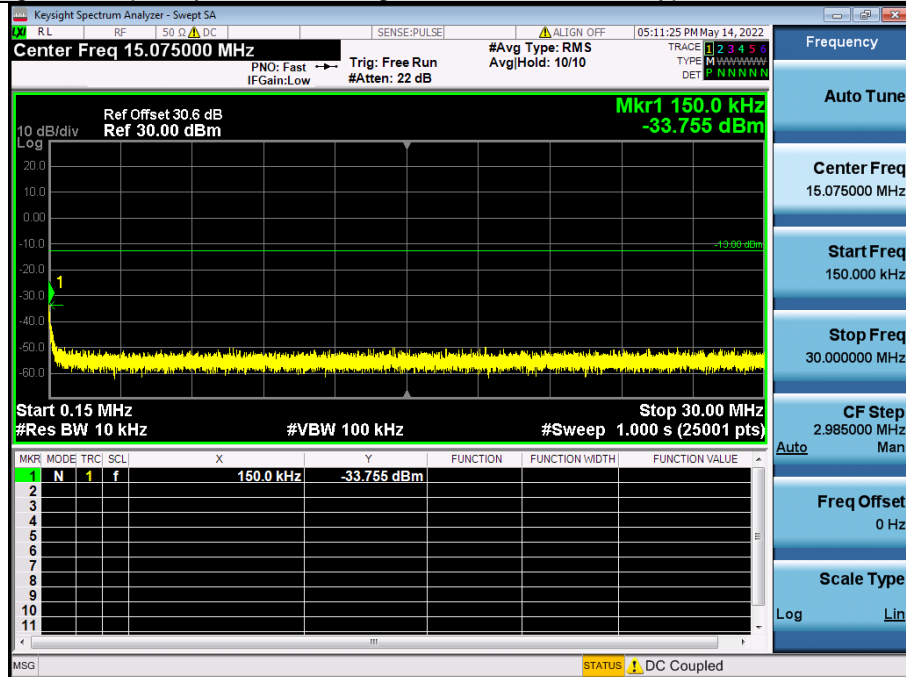
Assigned Frequency:157.425MHz, High Power, Modulation Type: FM, 1GHz-2GHz



Assigned Frequency: 161.6 MHz, High Power, Modulation Type: FM, 9 KHz-150 KHz



Assigned Frequency: 161.6 MHz, High Power, Modulation Type: FM, 150 KHz-30 MHz

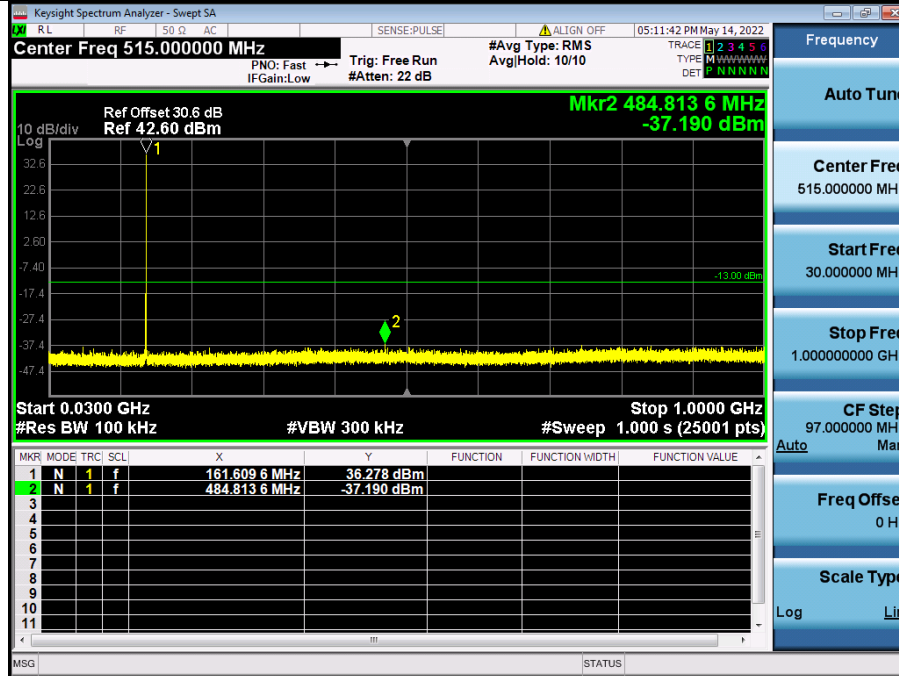


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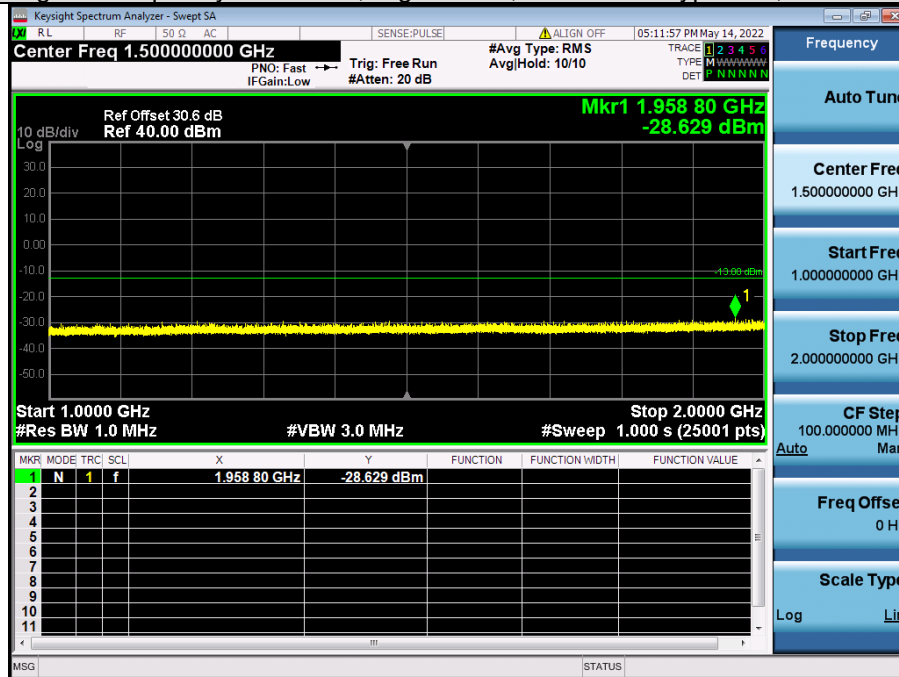
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Assigned Frequency: 161.6MHz, High Power, Modulation Type: FM, 30MHz-1GHz



Assigned Frequency: 161.6MHz, High Power, Modulation Type: FM, 1GHz-2GHz



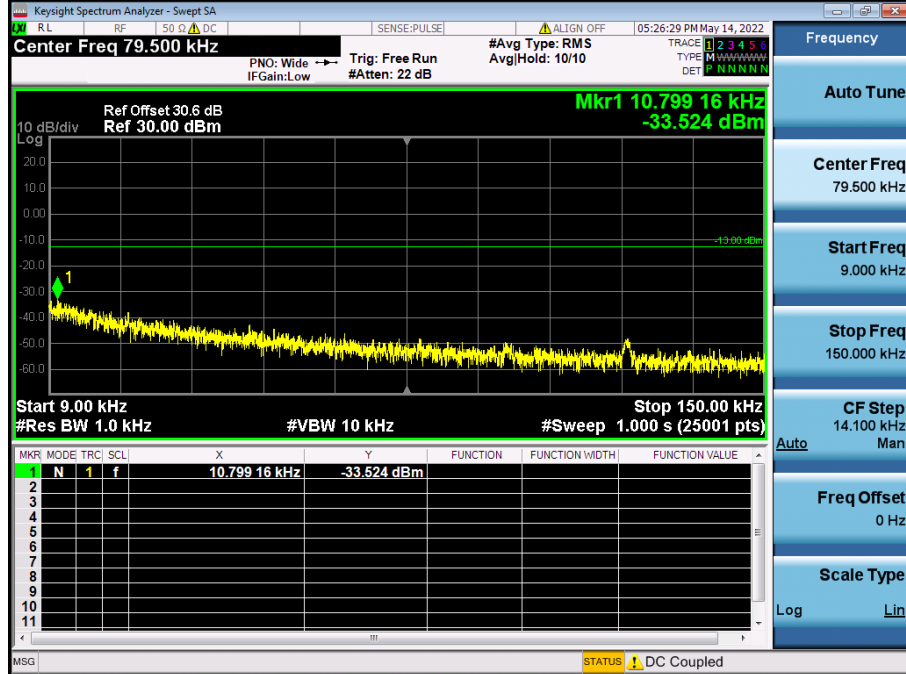
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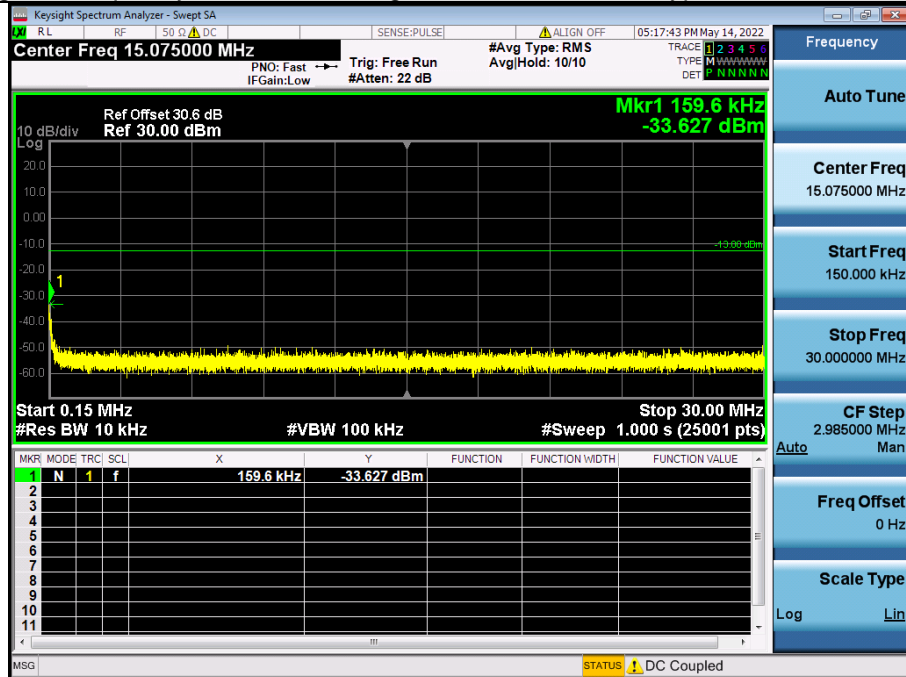
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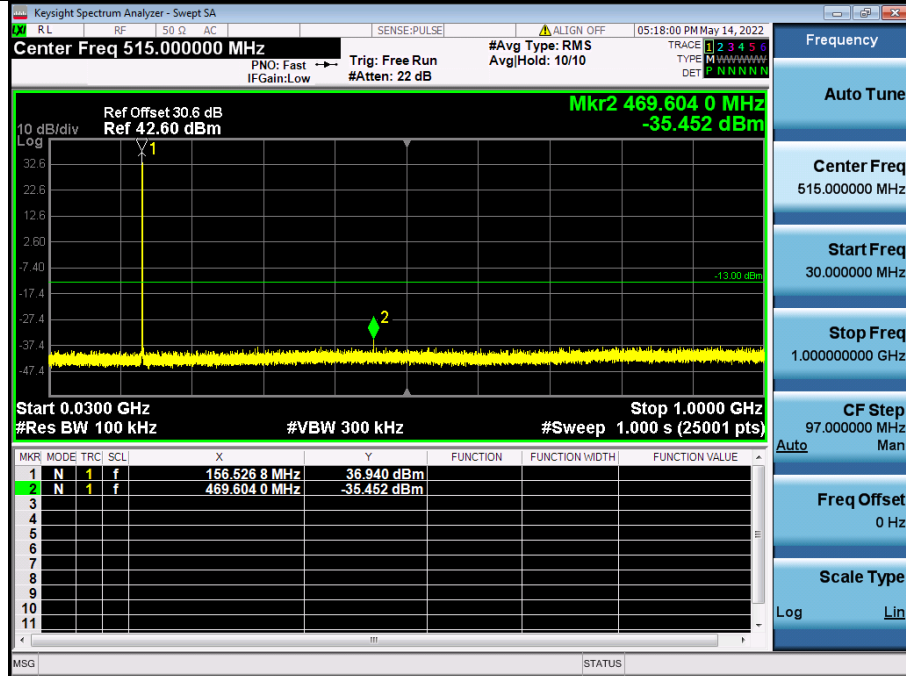
Assigned Frequency:156.525MHz, High Power, Modulation Type: FSK, 9KHz-150KHz



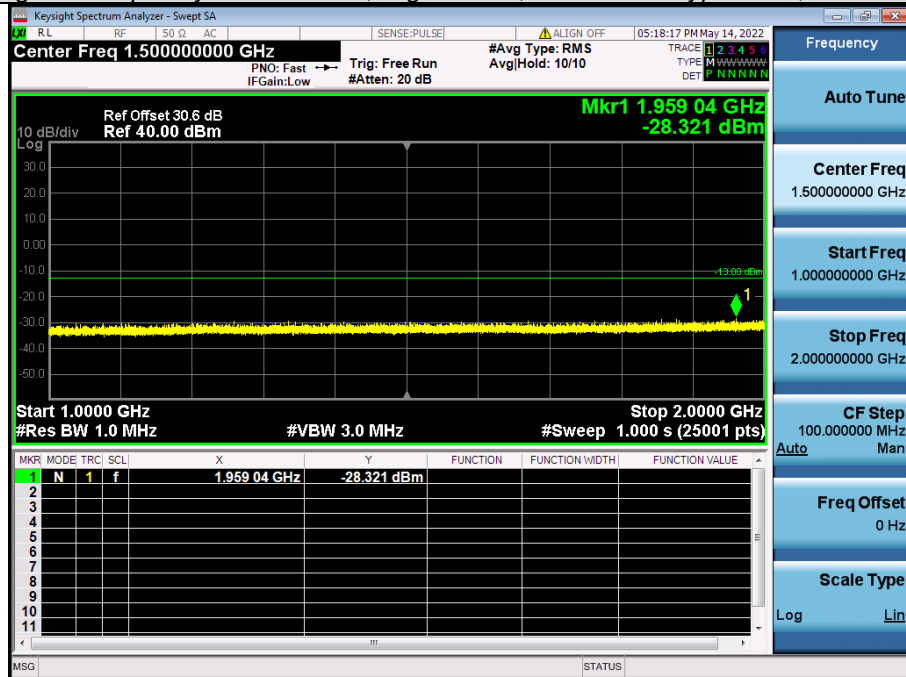
Assigned Frequency:156.525MHz, High Power, Modulation Type: FSK,150KHz-30MHz



Assigned Frequency:156.525MHz, High Power, Modulation Type: FSK, 30MHz-1GHz



Assigned Frequency:156.525MHz, High Power, Modulation Type: FSK, 1GHz-2GHz



Only record the worst test result.



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### 5. Transmitter Unwanted Emission(Radiated)

Assigned Frequency:156.025MHz, Modulation Type: FM								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Over Limit(dB)	Polarization (H/V)	Result
1248.2	-60.7	2.64	5.17	-60.32	-13	-47.32	Horizontal	Pass
1404.225	-68.9	2.64	5.17	-68.52	-13	-55.52	Horizontal	Pass
1560.25	-54.88	3.77	7.43	-53.37	-13	-40.37	Horizontal	Pass
1248.2	-63.65	2.64	5.17	-63.27	-13	-50.27	Vertical	Pass
1404.225	-62.71	2.64	5.17	-62.33	-13	-49.33	Vertical	Pass
1560.25	-46.03	3.77	7.43	-44.52	-13	-31.52	Vertical	Pass
Assigned Frequency:161.6MHz, Modulation Type: FM								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Over Limit(dB)	Polarization (H/V)	Result
1292.8	-64.12	2.64	5.17	-63.74	-13	-50.74	Horizontal	Pass
1454.4	-69.02	2.64	5.17	-68.64	-13	-55.64	Horizontal	Pass
1616	-56.95	3.77	7.43	-55.44	-13	-42.44	Horizontal	Pass
1292.8	-64.24	2.64	5.17	-63.86	-13	-50.86	Vertical	Pass
1454.4	-62.97	2.64	5.17	-62.59	-13	-49.59	Vertical	Pass
1616	-45.87	3.77	7.43	-44.36	-13	-31.36	Vertical	Pass
Assigned Frequency:156.525MHz, Modulation Type: FSK								
Frequency (MHz)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain(dBi)	EIRP (dBm)	Limit (dBm)	Over Limit(dB)	Polarization (H/V)	Result
1252.2	-64.68	2.64	5.17	-64.3	-13	-51.3	Horizontal	Pass
1408.725	-68.56	2.64	5.17	-68.18	-13	-55.18	Horizontal	Pass
1565.25	-57.12	3.77	7.43	-55.61	-13	-42.61	Horizontal	Pass
1252.2	-63.87	2.64	5.17	-63.49	-13	-50.49	Vertical	Pass
1408.725	-62.54	2.64	5.17	-62.16	-13	-49.16	Vertical	Pass
1565.25	-46.24	3.77	7.43	-44.73	-13	-31.73	Vertical	Pass

Note: All modes and modulation have been tested worst test result, All harmonics and spurious emissions are more than 20 dB below the specified attenuation limit, 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
156.025	300	-9.5	-13.5	-12.54	Pass
	500	-5	-9	-7.77	Pass
	800	-0.9	-4.9	-2.54	Pass
	1000	1	-3	0.31	Pass
	1500	4.5	0.5	+3.37	Pass
	1800	6.1	2.1	+4.86	Pass
	2000	7	3	+5.79	Pass
	2500	9	5	+6.72	Pass
	3000	10.5	6.5	+8.37	Pass
156.525	300	-9.5	-13.5	-12.07	Pass
	500	-5	-9	-7.68	Pass
	800	-0.9	-4.9	-2.39	Pass
	1000	1	-3	0.71	Pass
	1500	4.5	0.5	+3.52	Pass
	1800	6.1	2.1	+4.87	Pass
	2000	7	3	+5.72	Pass
	2500	9	5	+8.11	Pass
	3000	10.5	6.5	+9.32	Pass



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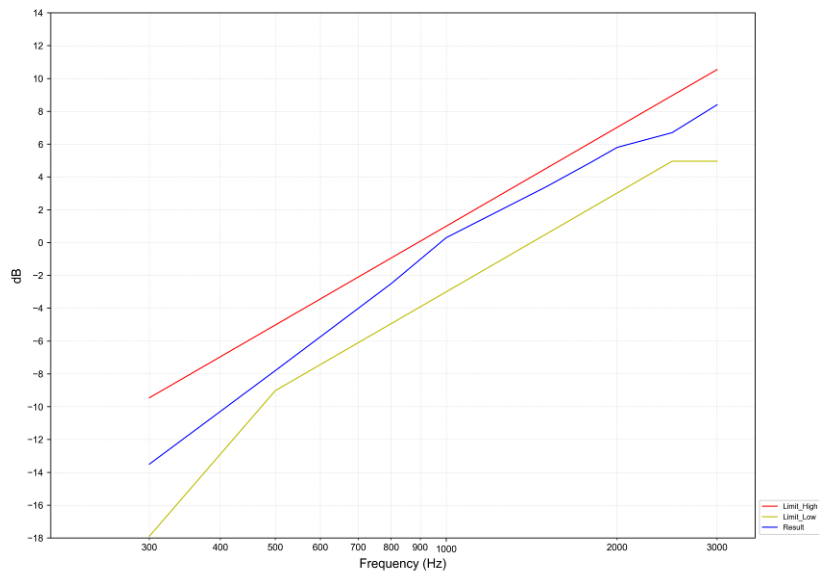
Test Frequency (MHz)	Modulation Frequency (Hz)	Input level	Maximum Deviation(KHz)		Limit (KHz)	Verdict
			High Power	Low Power		
156.025	100	20dB 3KHz	2.7	2.5	≤5.0	Pass
	200	20dB 3KHz	3.5	3.6	≤5.0	Pass
	300	20dB 3KHz	3.1	3.4	≤5.0	Pass
	400	20dB 3KHz	3.3	3.3	≤5.0	Pass
	500	20dB 3KHz	3.4	3.2	≤5.0	Pass
	1000	20dB 3KHz	3.8	3.1	≤5.0	Pass
	1500	20dB 3KHz	3.9	3.7	≤5.0	Pass
	2000	20dB 3KHz	3.5	3.6	≤5.0	Pass
	2500	20dB 3KHz	3.6	3.6	≤5.0	Pass
	3000	20dB 3KHz	3.1	3.2	≤5.0	Pass
156.525	100	20dB 3KHz	2.8	2.7	≤5.0	Pass
	200	20dB 3KHz	3.2	3.4	≤5.0	Pass
	300	20dB 3KHz	3.1	3.3	≤5.0	Pass
	400	20dB 3KHz	3.1	3.3	≤5.0	Pass
	500	20dB 3KHz	3.2	3.3	≤5.0	Pass
	1000	20dB 3KHz	3.7	3.9	≤5.0	Pass
	1500	20dB 3KHz	3.3	3.5	≤5.0	Pass
	2000	20dB 3KHz	3.4	3.6	≤5.0	Pass
	2500	20dB 3KHz	3.3	3.5	≤5.0	Pass
	3000	20dB 3KHz	3.3	3.3	≤5.0	Pass



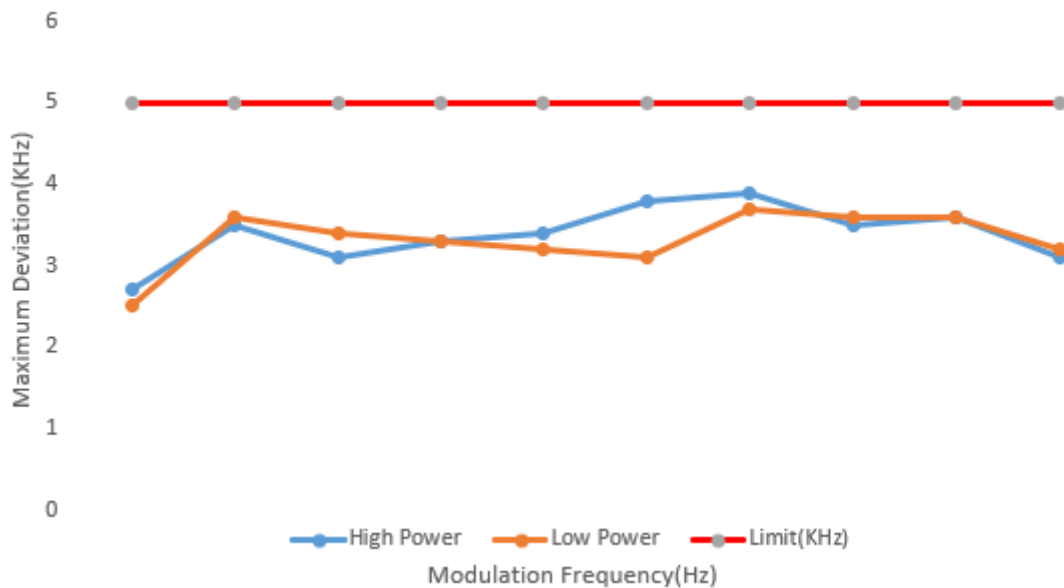
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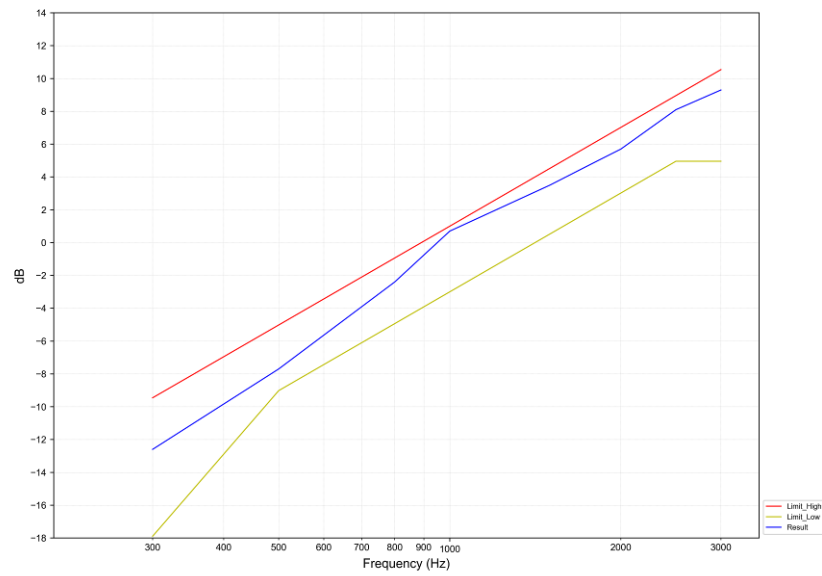
Assigned Frequency:156.025MHz, High Power, Modulation Type: FM



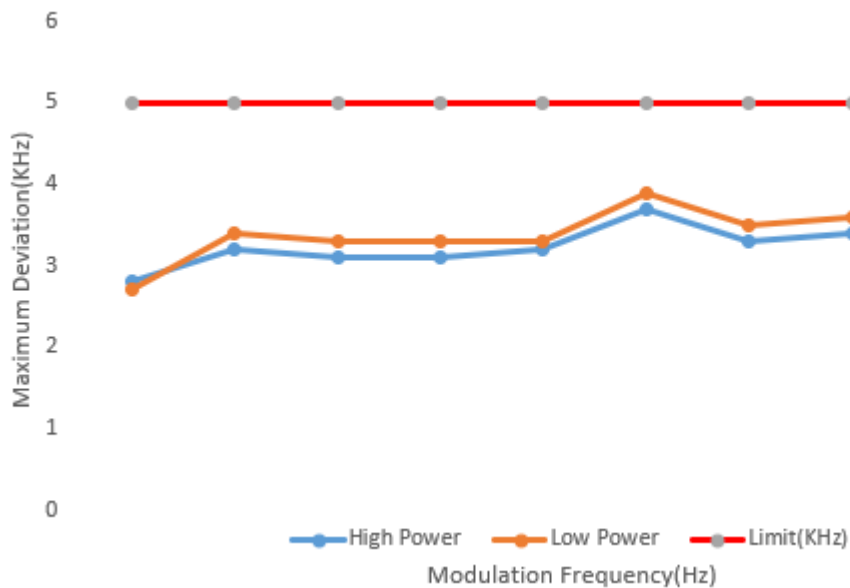
Assigned Frequency:156.025MHz, High Power, Modulation Type: FM



Assigned Frequency:156.525MHz, Modulation Type: FSK

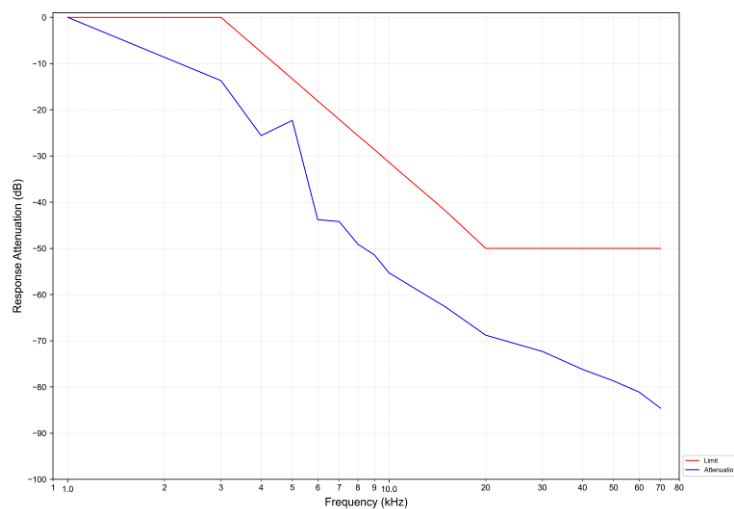


Assigned Frequency:156.525MHz, Modulation Type: FSK



## Low Pass Filter Response

Assigned Frequency:156.025MHz, High Power, Modulation Type: FM		
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)
1	0	/
3	-13.7	0
4	-25.6	-7.5
5	-22.3	-13.3
6	-43.8	-18.1
7	-44.2	-22.1
8	-49.1	-25.6
9	-51.4	-28.6
10	-55.3	-31.4
15	-62.7	-41.9
20	-68.8	-50.0
30	-72.3	-50.0
40	-76.2	-50.0
50	-78.7	-50.0
60	-81.1	-50.0
70	-84.6	-50.0

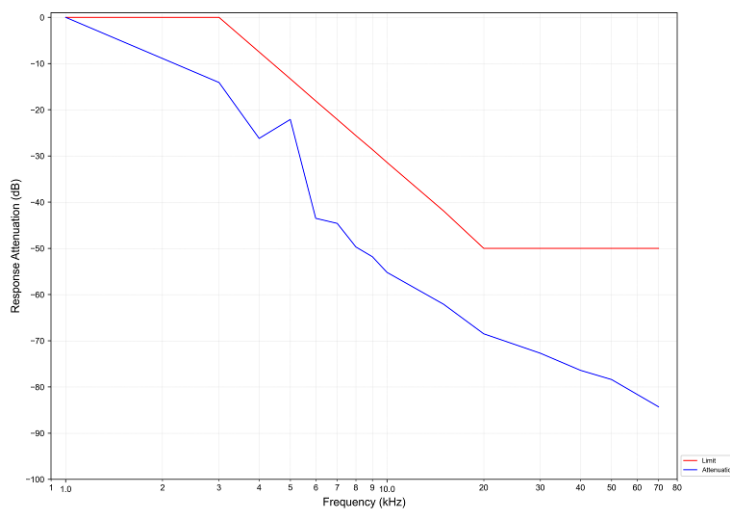


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Assigned Frequency:156.525MHz, High Power, Modulation Type: FSK		
Audio Frequency(KHz)	ResponseAttenuation(dB)	Limit (dB)
1	0	/
3	-14.1	0
4	-26.2	-7.5
5	-22.1	-13.3
6	-43.5	-18.1
7	-44.6	-22.1
8	-49.7	-25.6
9	-51.8	-28.6
10	-55.2	-31.4
15	-62.1	-41.9
20	-68.5	-50.0
30	-72.7	-50.0
40	-76.4	-50.0
50	-78.4	-50.0
60	-81.6	-50.0
70	-84.3	-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
7.4	156.025	Max	37.92	6.19	25W
		Mid	35.08	3.22	25W
		Low	30.11	1.03	25W
	156.300	Max	37.90	6.17	25W
		Mid	35.06	3.21	25W
		Low	30.12	1.03	25W
	156.650	Max	37.85	6.10	25W
		Mid	35.11	3.24	25W
		Low	30.17	1.04	25W
	156.800	Max	37.88	6.14	25W
		Mid	35.10	3.24	25W
		Low	30.11	1.03	25W
	157.425	Max	37.78	6.00	25W
		Mid	35.16	3.28	25W
		Low	30.20	1.05	25W
	156.525	Max	37.86	6.11	25W
		Mid	35.11	3.24	25W
		Low	30.15	1.04	25W
	161.6	Max	37.89	6.15	25W
		Mid	35.09	3.23	25W
		Low	30.08	1.02	25W



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## 8. Transmitter Carrier Power Reduction

Test Voltage (V Dc)	Test Frequency (MHz)	Power Level	Default Power (W)	Limit	Result
7.4	156.375	Low	/	one watt or less	/
	156.525	Low	/	one watt or less	/
	156.650	Low	/	one watt or less	/

### Note:

Not Applicable, Hand-held portable transmitters are not required to comply with the automatic reduction of carrier power.

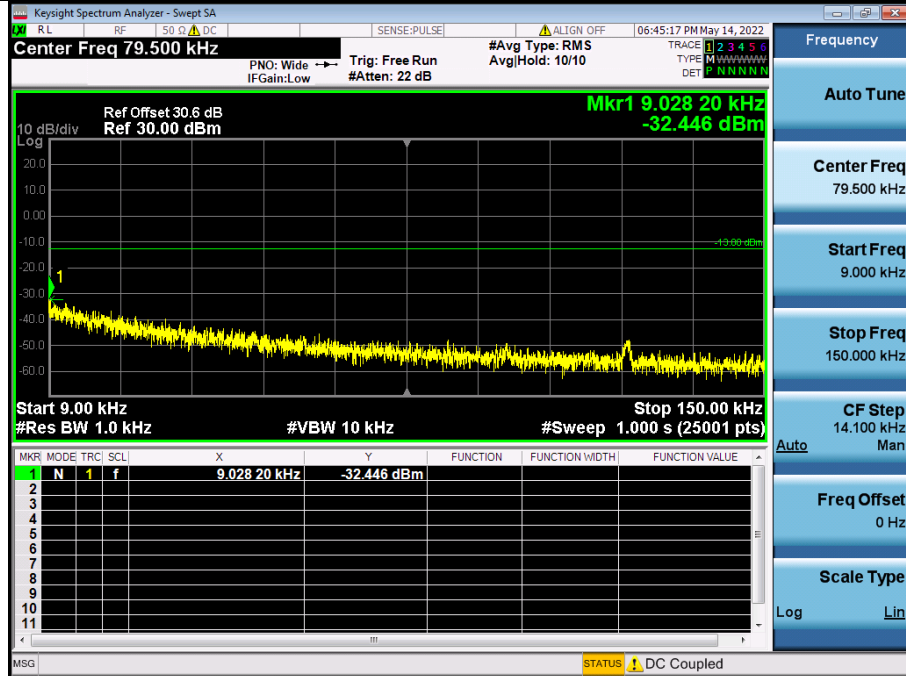


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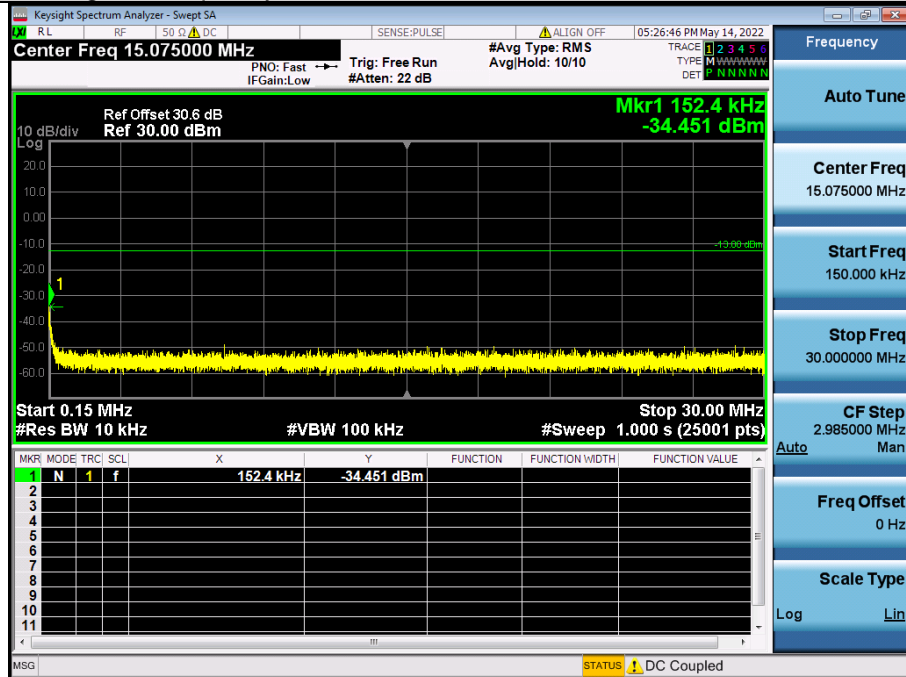
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## 9. Suppression of interference aboard ships

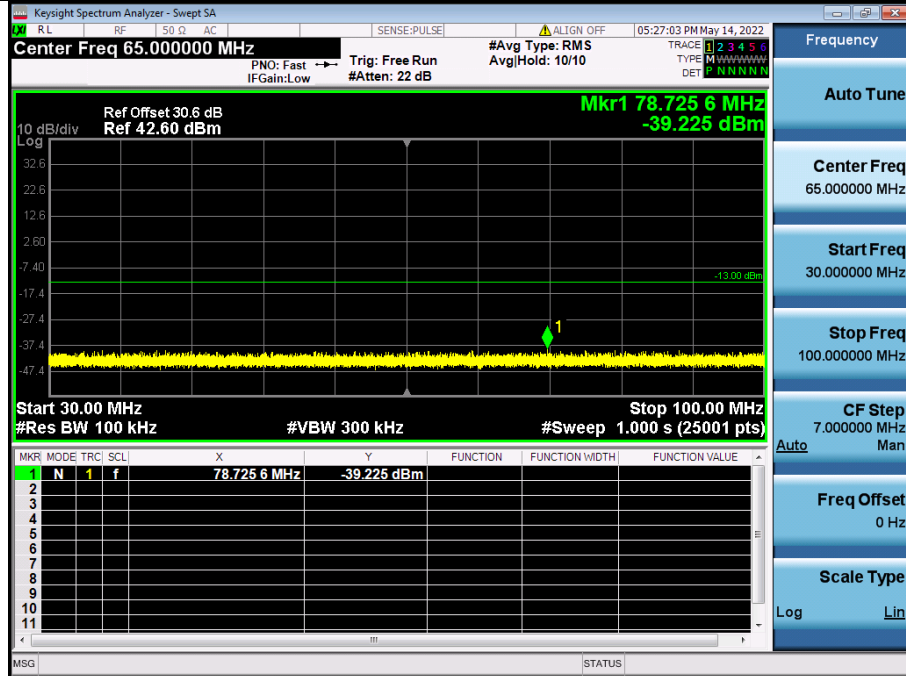
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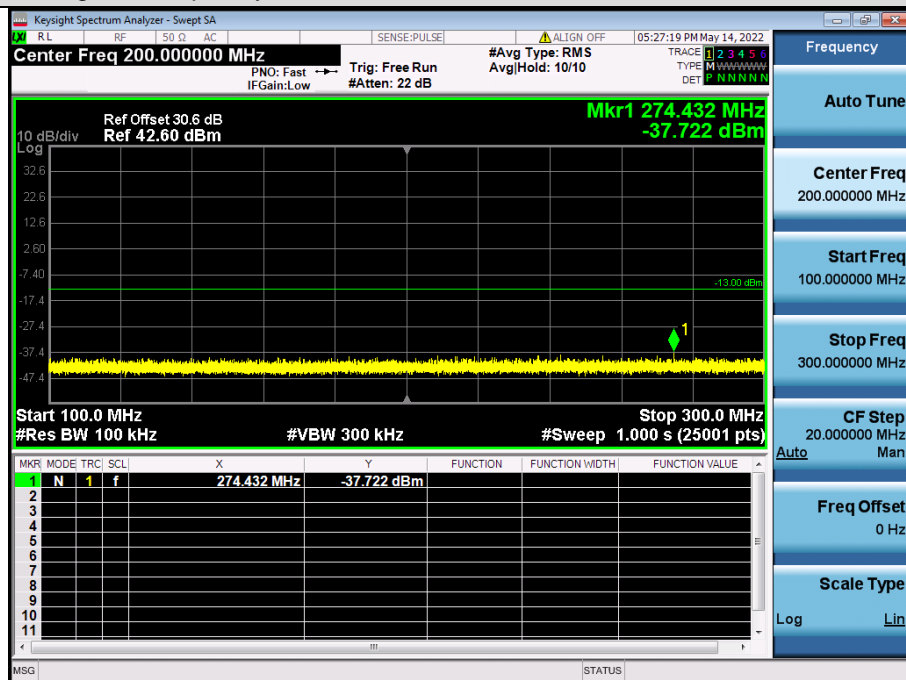
Assigned Frequency: 156.525 MHz, 150 KHz-30 MHz, DSC receiver mode



Assigned Frequency:156.525MHz, 30MHz-100MHz, DSC receiver mode

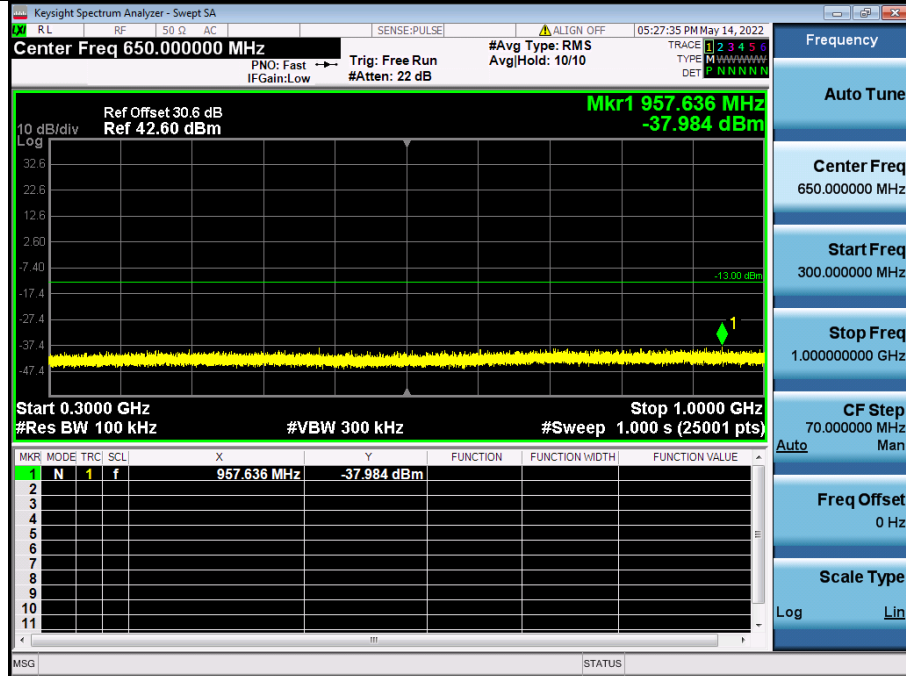


Assigned Frequency:156.525MHz, 100MHz-300MHz, DSC receiver mode

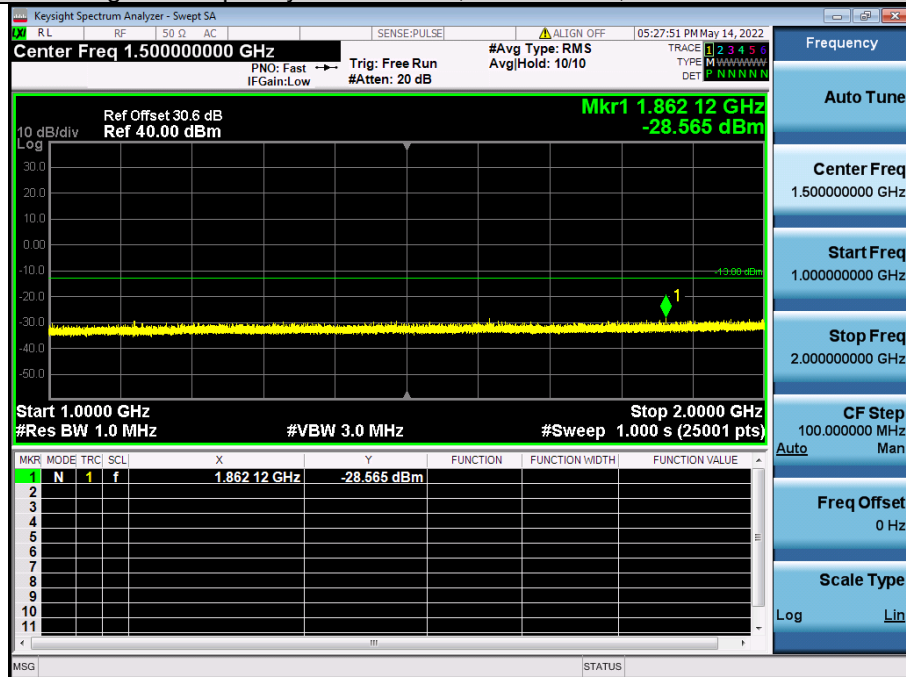




Assigned Frequency:156.525MHz, 300MHz-1GHz, DSC receiver mode



Assigned Frequency:156.525MHz, 1GHz-2GHz, DSC receiver mode

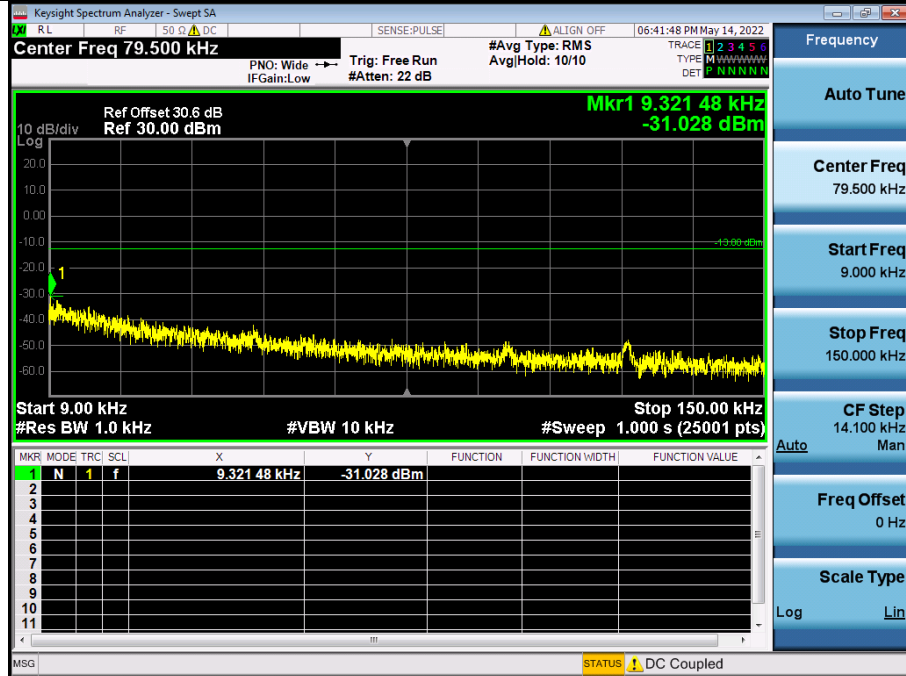


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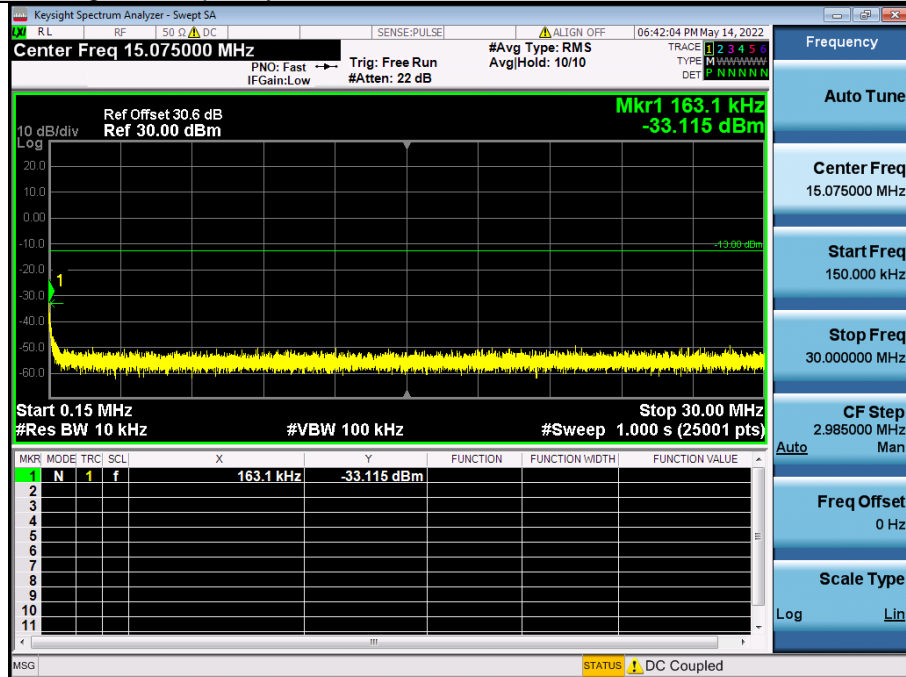
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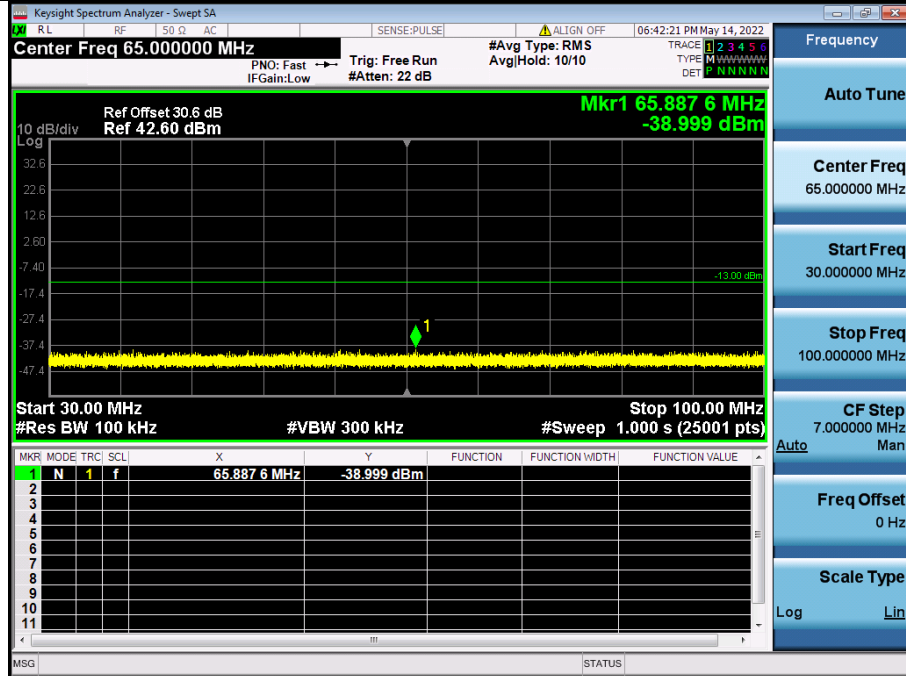
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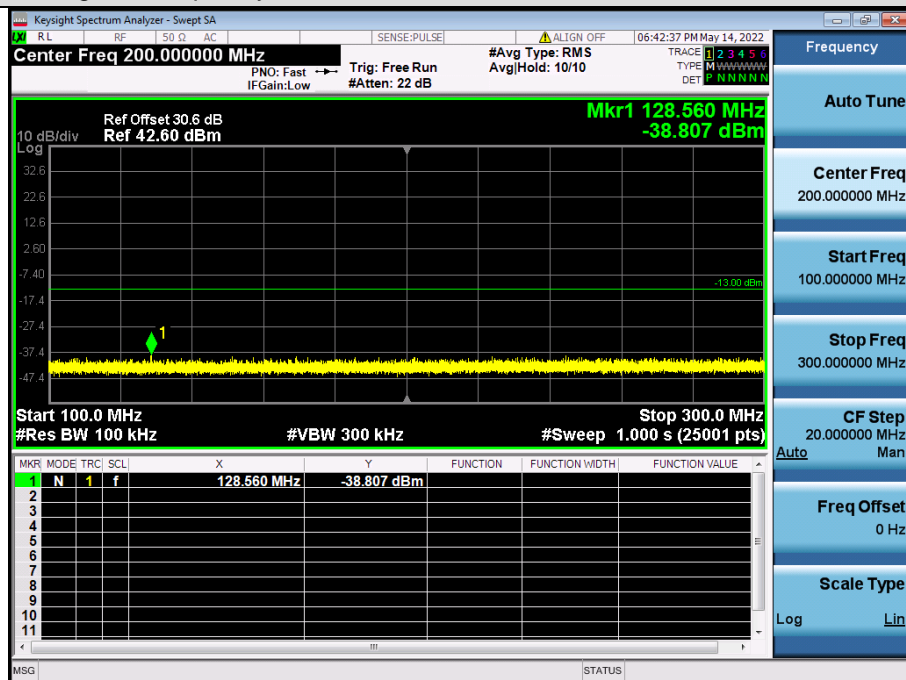
Assigned Frequency:156.025MHz, 150KHz-30MHz, VHF receiver mode



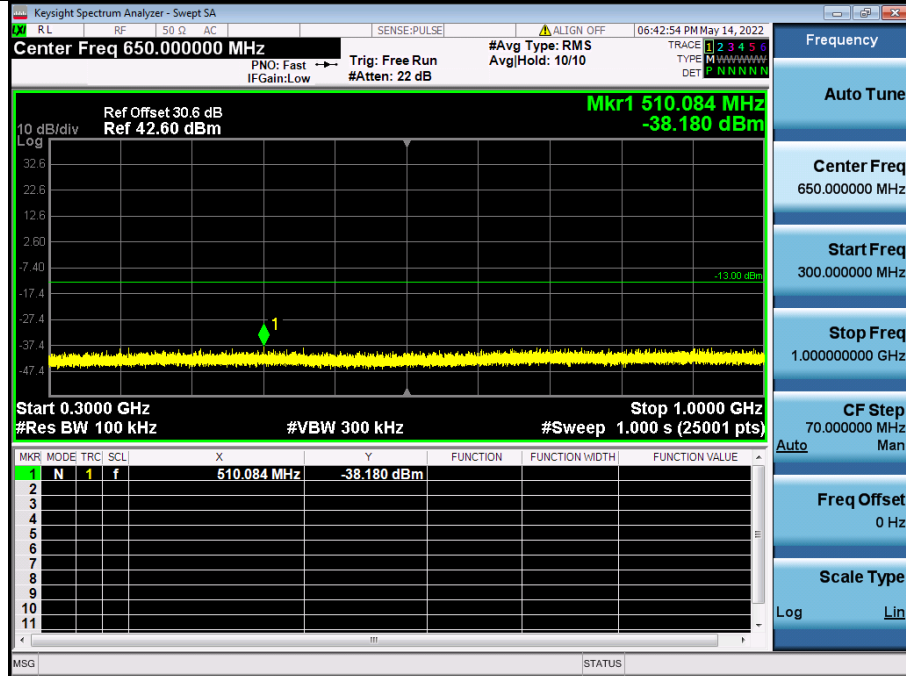
Assigned Frequency:156.025MHz, 30MHz-100MHz, VHF receiver mode



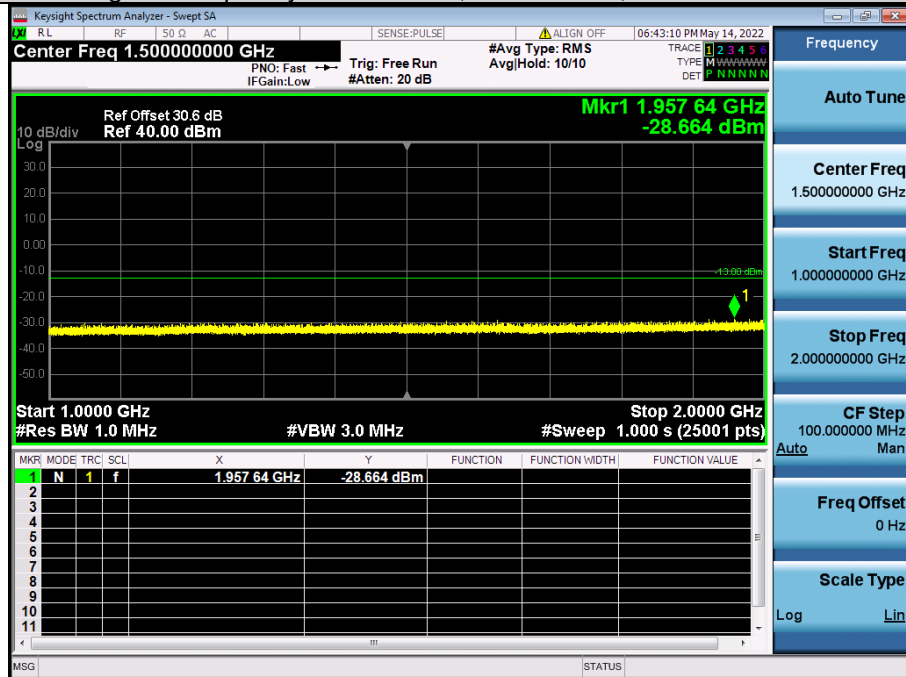
Assigned Frequency:156.025MHz, 100MHz-300MHz, VHF receiver mode



Assigned Frequency:156.025MHz, 300MHz-1GHz, VHF receiver mode



Assigned Frequency:156.025MHz, 1GHz-2GHz, VHF receiver mode



Only record the worst test result.

-End of Report-



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