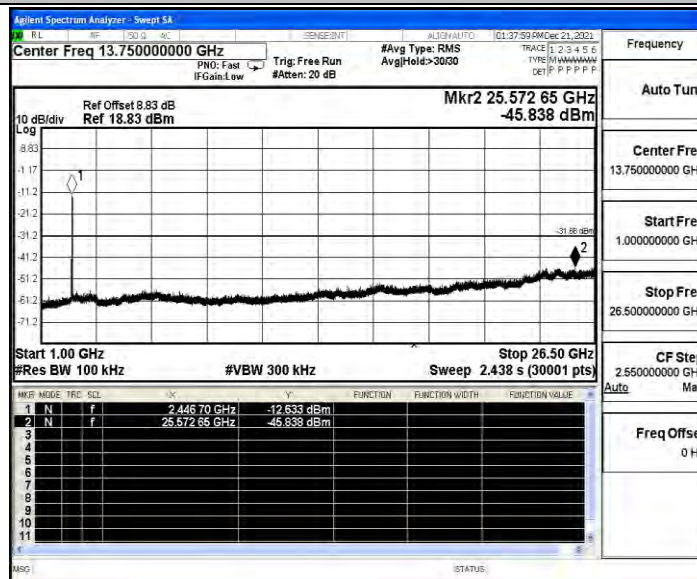




11N40SISO_Ant0_2452_1000~26500





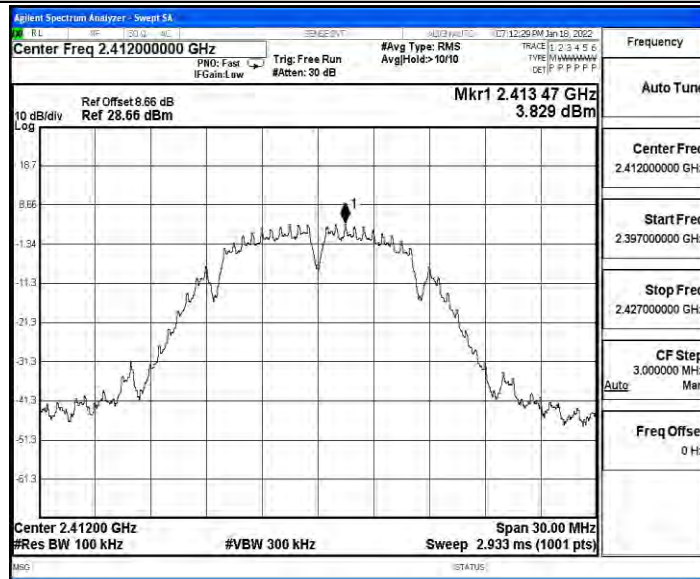
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.83	3.83	---	PASS
			30~1000	3.83	-60.79	≤ -16.17	PASS
			1000~26500	3.83	-46.2	≤ -16.17	PASS
		2437	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-60.14	≤ -16.19	PASS
			1000~26500	3.81	-46.43	≤ -16.19	PASS
		2462	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-60.39	≤ -16.19	PASS
			1000~26500	3.81	-35.99	≤ -16.19	PASS
11G	Ant1	2412	Reference	-7.31	-7.31	---	PASS
			30~1000	-7.31	-60.38	≤ -27.31	PASS
			1000~26500	-7.31	-35.77	≤ -27.31	PASS
		2437	Reference	-7.03	-7.03	---	PASS
			30~1000	-7.03	-60.82	≤ -27.03	PASS
			1000~26500	-7.03	-45.88	≤ -27.03	PASS
		2462	Reference	-7.00	-7.00	---	PASS
			30~1000	-7.00	-60.31	≤ -27	PASS
			1000~26500	-7.00	-46.49	≤ -27	PASS
11N20SISO	Ant1	2412	Reference	-7.70	-7.70	---	PASS
			30~1000	-7.70	-60.78	≤ -27.7	PASS
			1000~26500	-7.70	-45.85	≤ -27.7	PASS
		2437	Reference	-7.28	-7.28	---	PASS
			30~1000	-7.28	-60.8	≤ -27.28	PASS
			1000~26500	-7.28	-43.64	≤ -27.28	PASS
		2462	Reference	-7.63	-7.63	---	PASS
			30~1000	-7.63	-60.29	≤ -27.63	PASS
			1000~26500	-7.63	-46.24	≤ -27.63	PASS
11N40SISO	Ant1	2422	Reference	-11.32	-11.32	---	PASS
			30~1000	-11.32	-60.58	≤ -31.32	PASS
			1000~26500	-11.32	-46	≤ -31.32	PASS
		2437	Reference	-12.14	-12.14	---	PASS
			30~1000	-12.14	-60.44	≤ -32.14	PASS
			1000~26500	-12.14	-45.66	≤ -32.14	PASS
		2452	Reference	-11.79	-11.79	---	PASS
			30~1000	-11.79	-61.15	≤ -31.79	PASS
			1000~26500	-11.79	-46.13	≤ -31.79	PASS

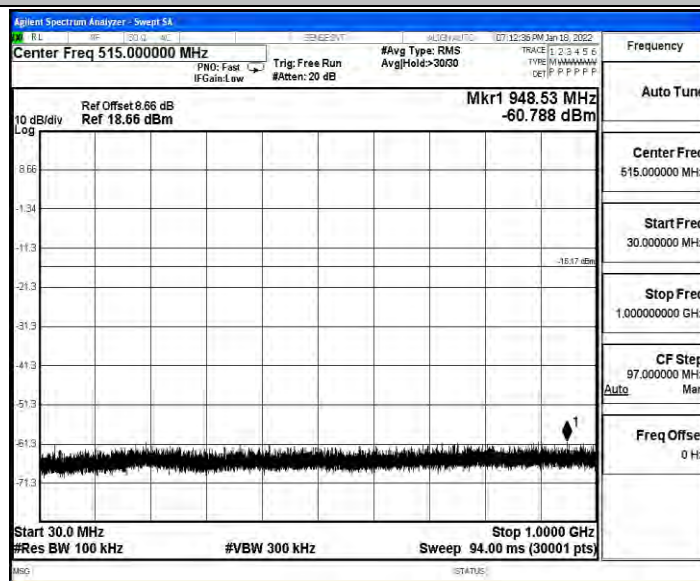


Test Graphs

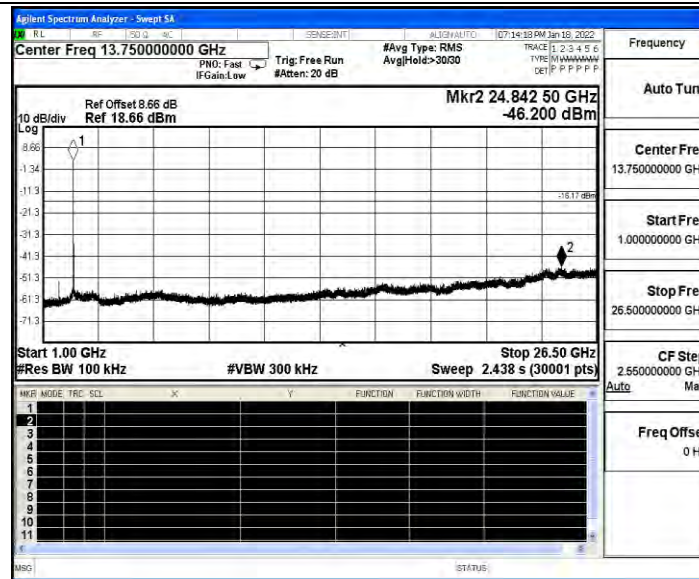
11B_Ant1_2412_0~Reference



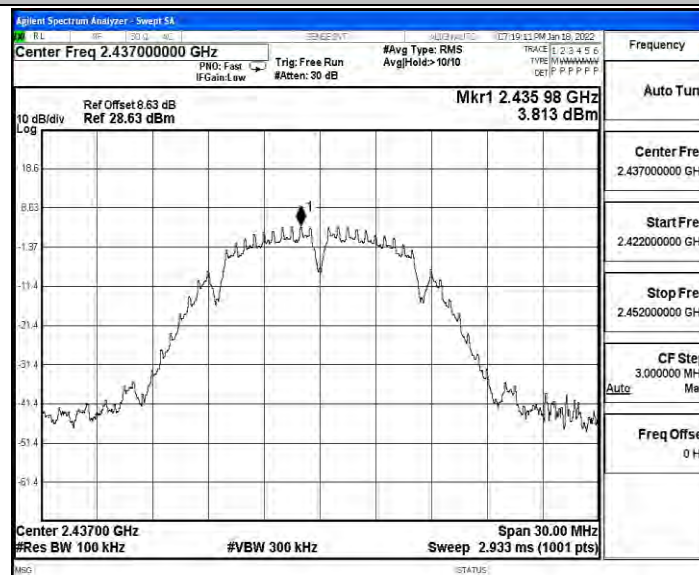
11B_Ant1_2412_30~1000



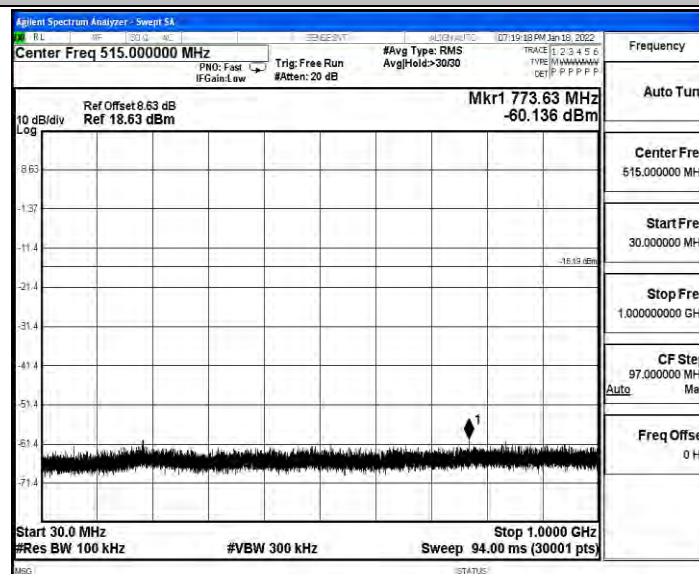
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference

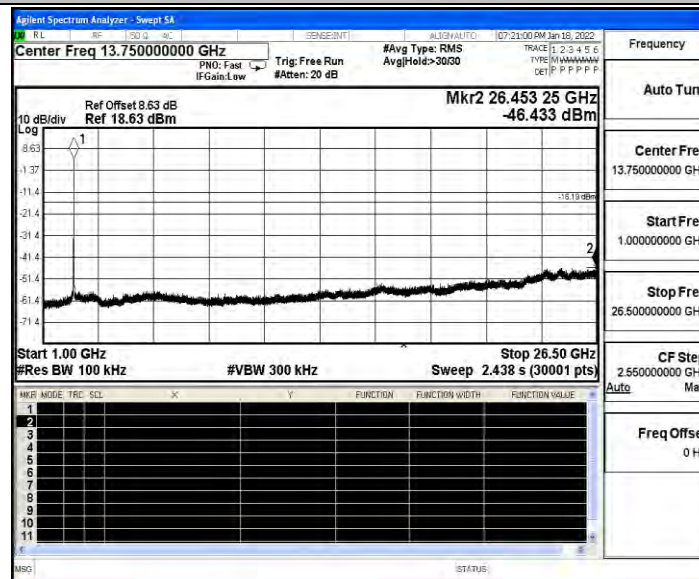


11B_Ant1_2437_30~1000

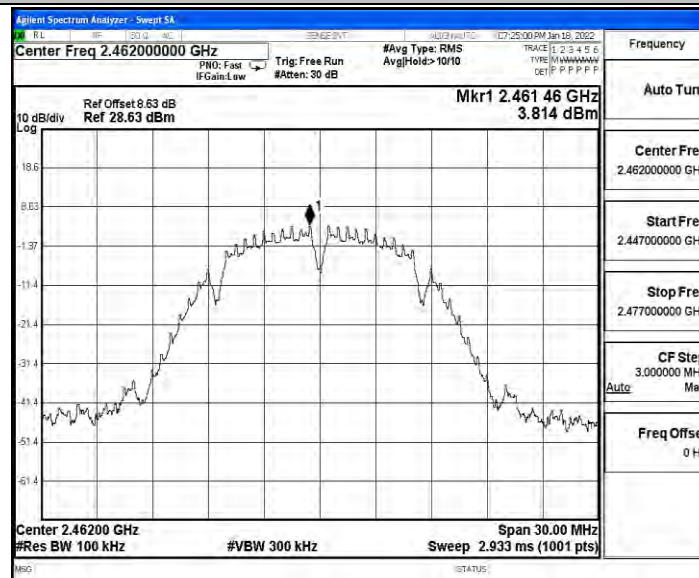




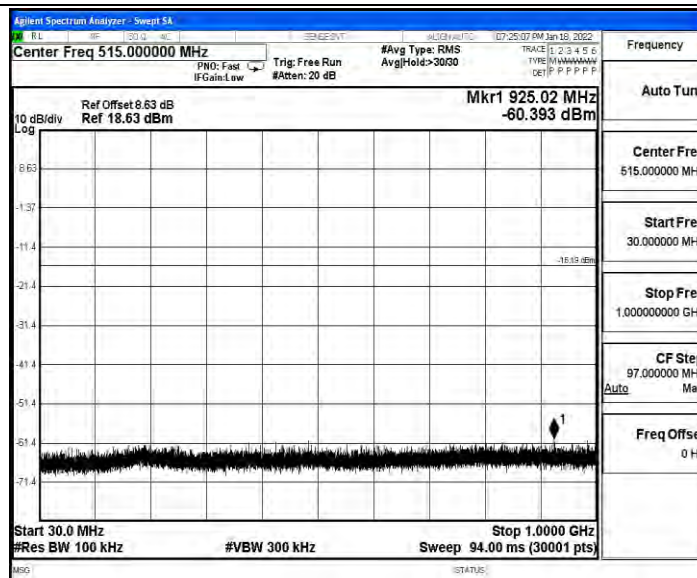
11B_Ant1_2437_1000~26500



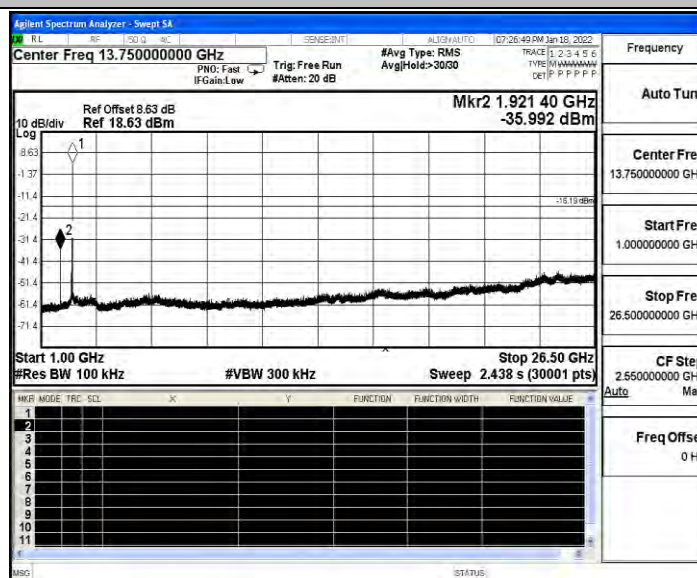
11B_Ant1_2462_0~Reference



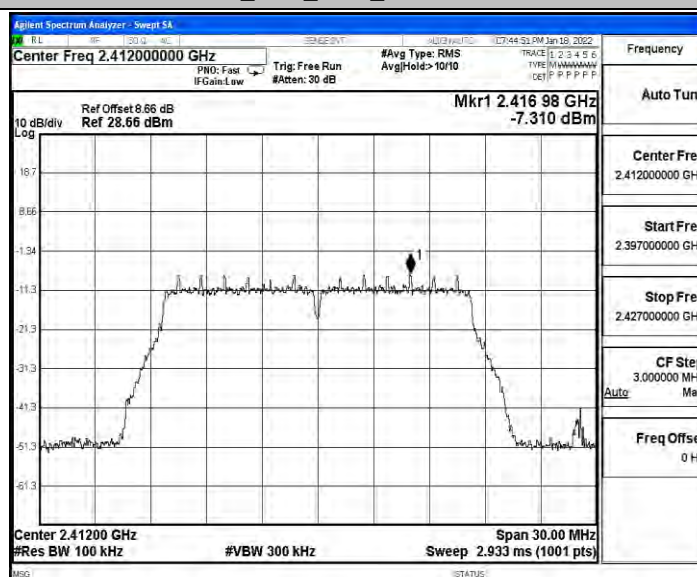
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

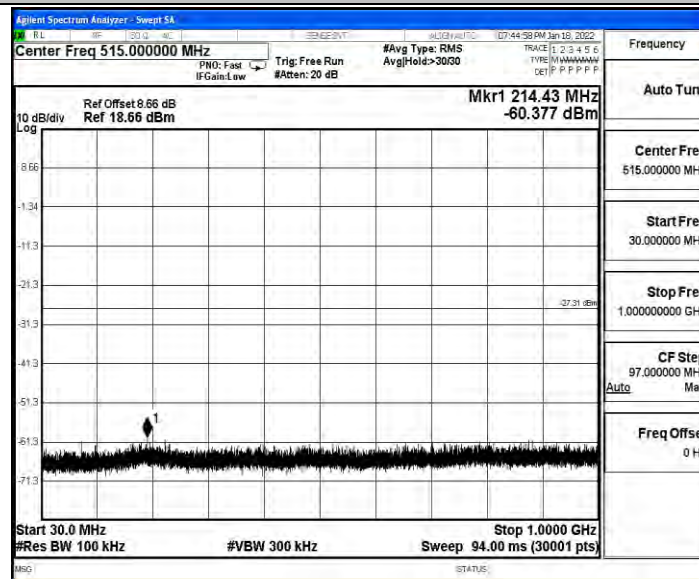


11G_Ant1_2412_0~Reference

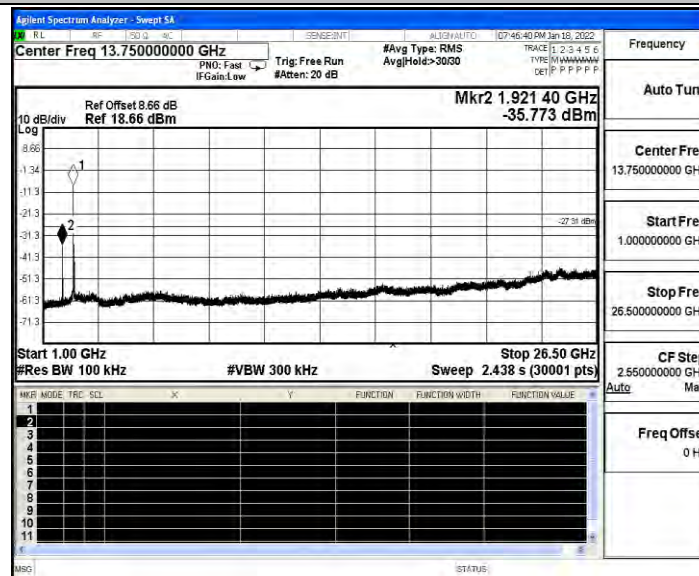




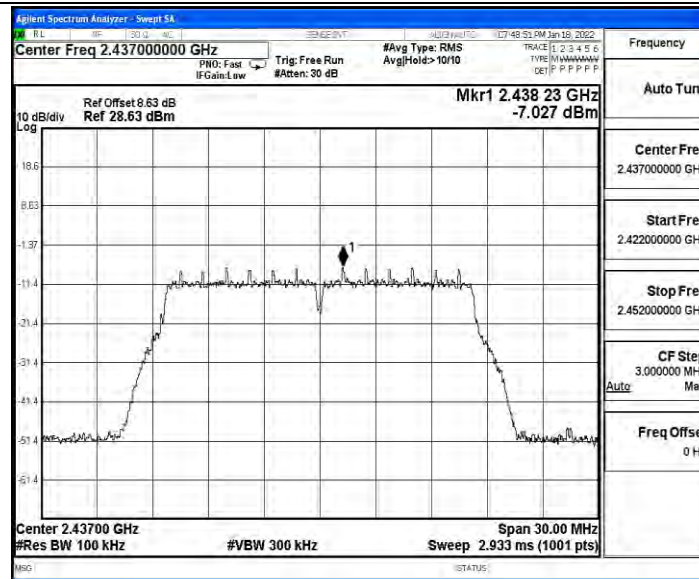
11G_Ant1_2412_30~1000



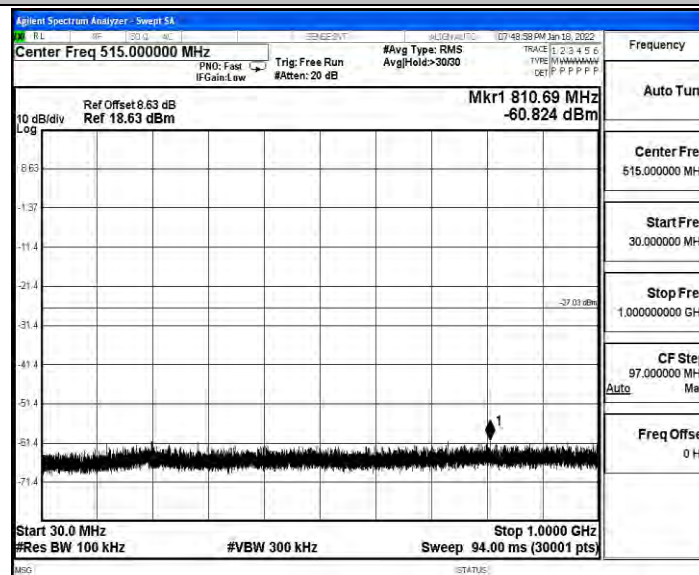
11G_Ant1_2412_1000~26500



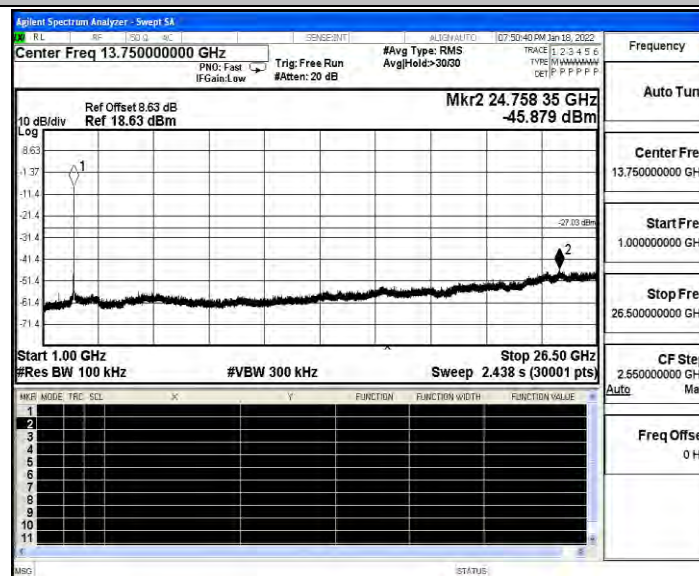
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

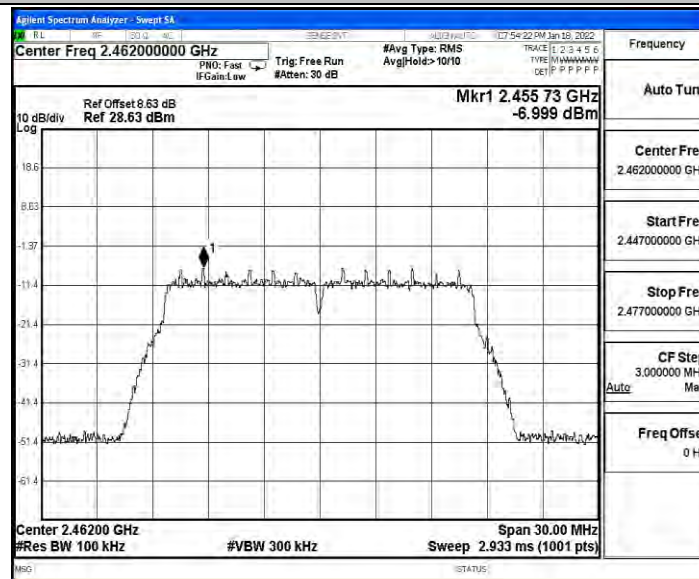


11G_Ant1_2437_1000~26500

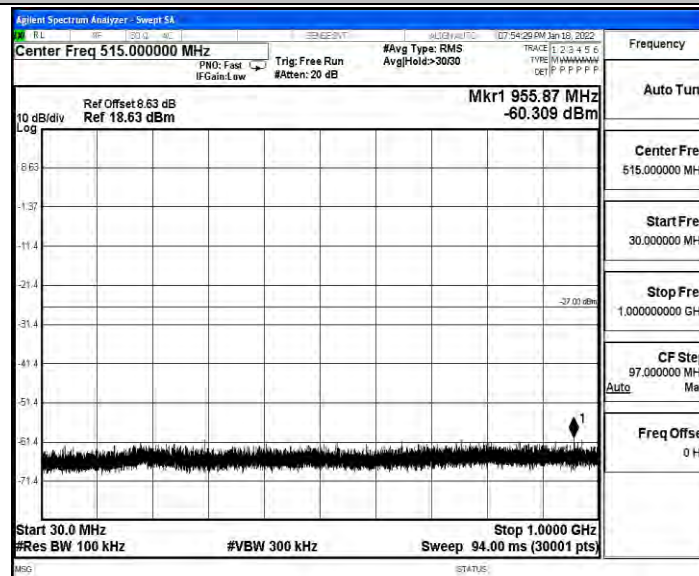




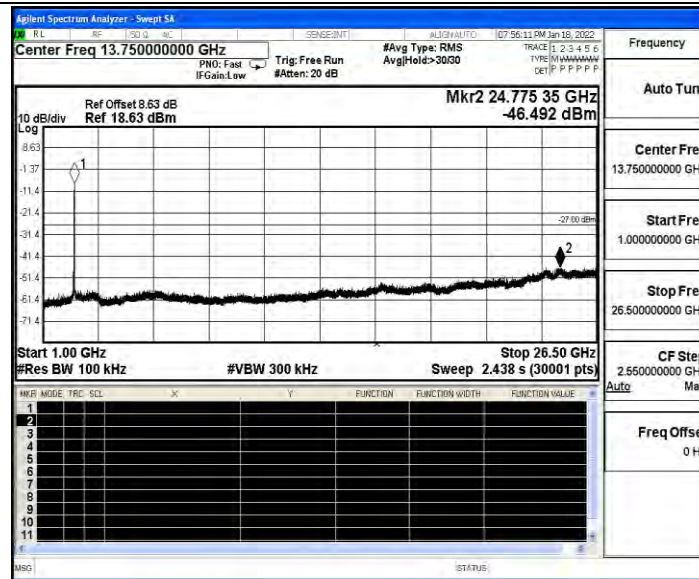
11G_Ant1_2462_0~Reference



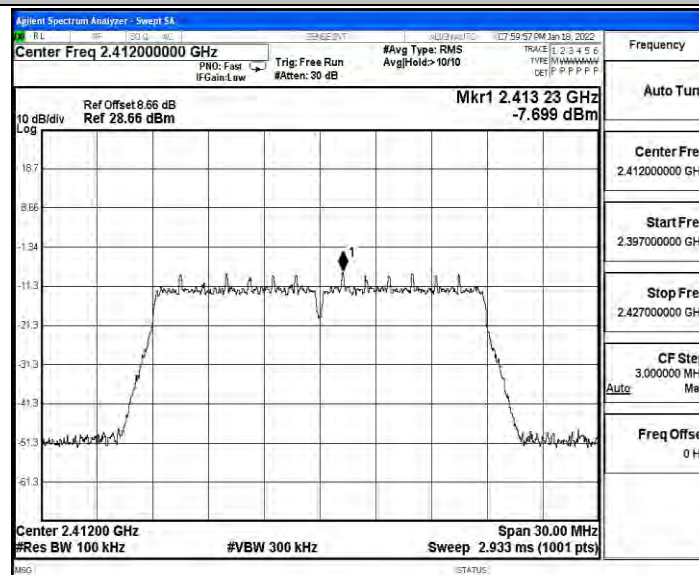
11G_Ant1_2462_30~1000



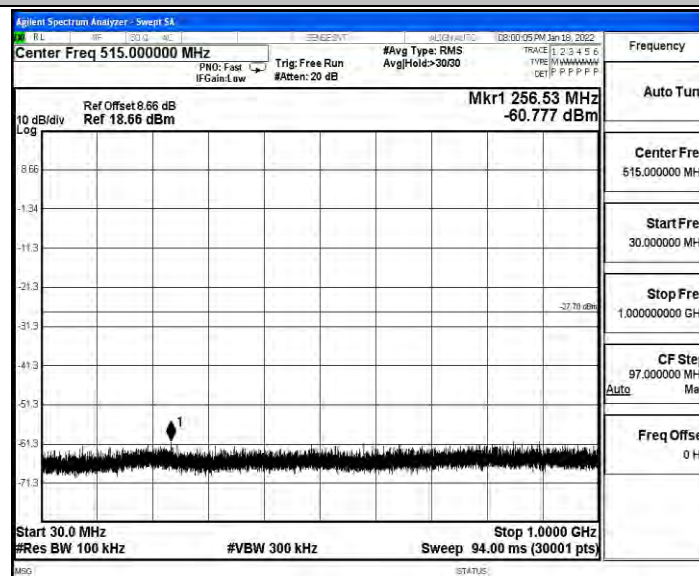
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

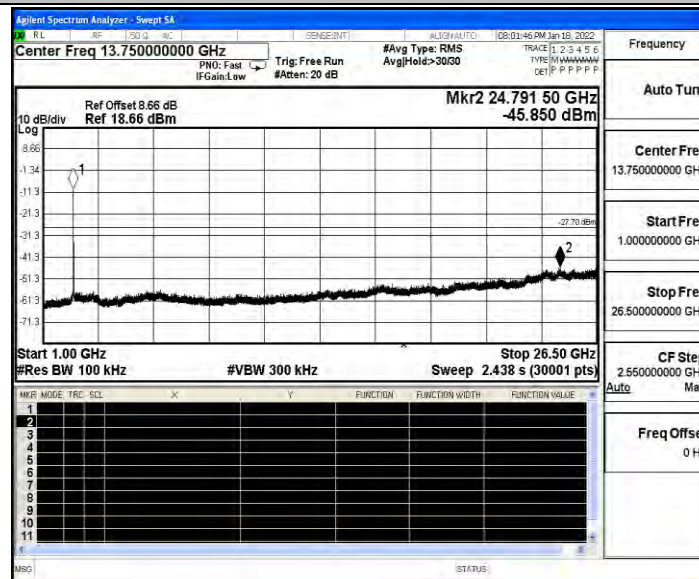


11N20SISO_Ant1_2412_30~1000

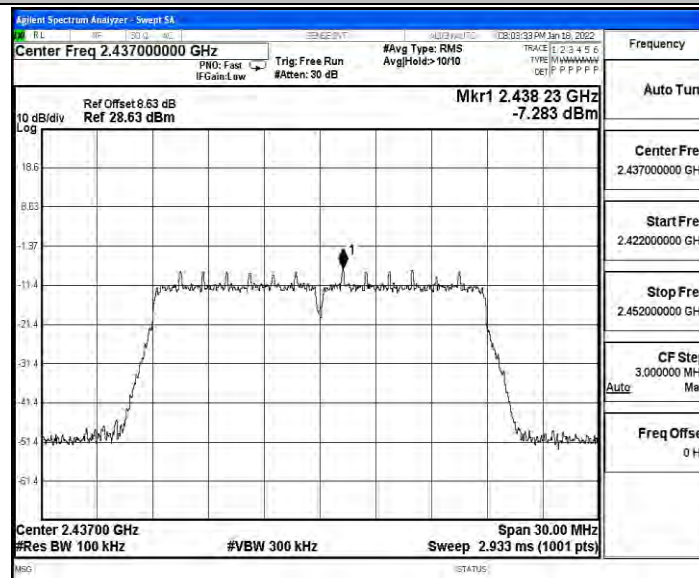




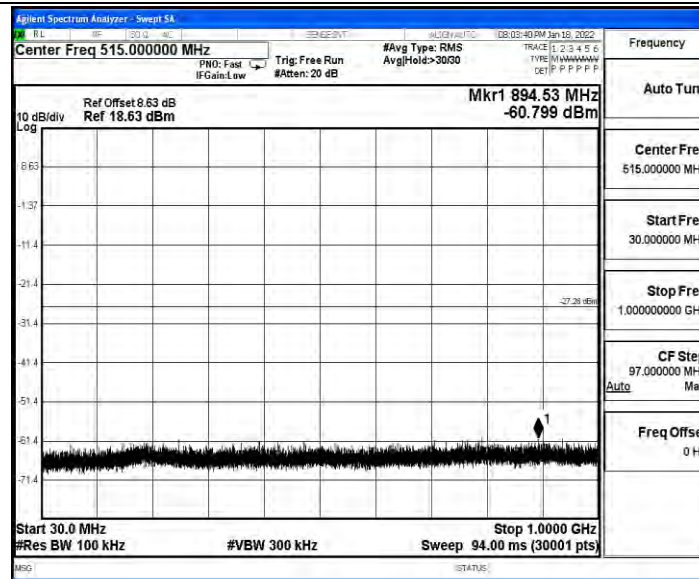
11N20SISO_Ant1_2412_1000~26500



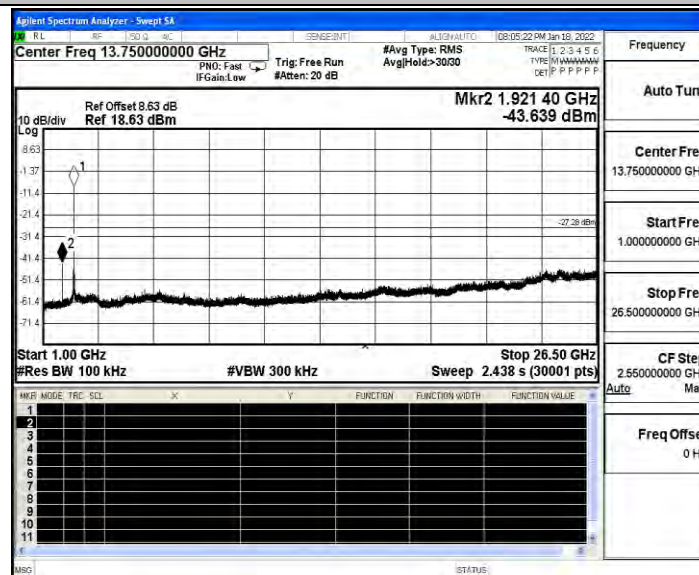
11N20SISO_Ant1_2437_0~Reference



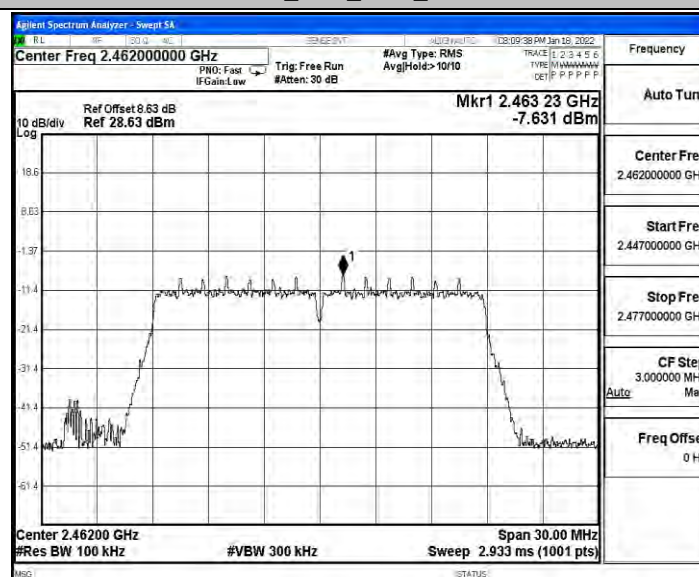
11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500

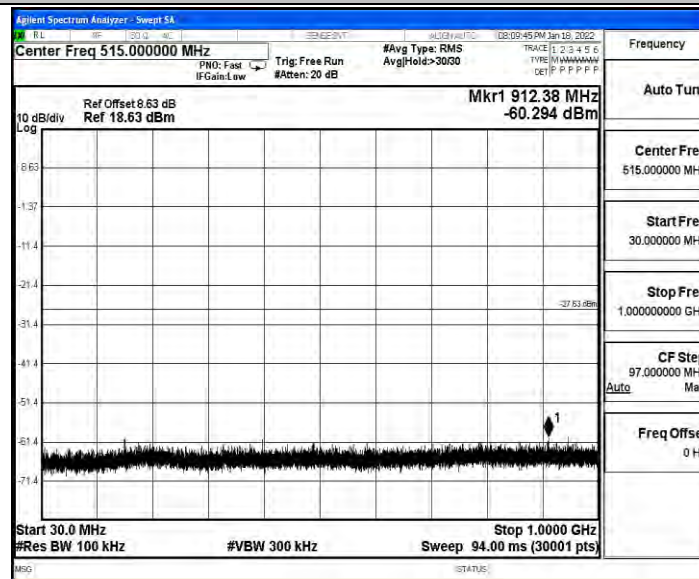


11N20SISO_Ant1_2462_0~Reference

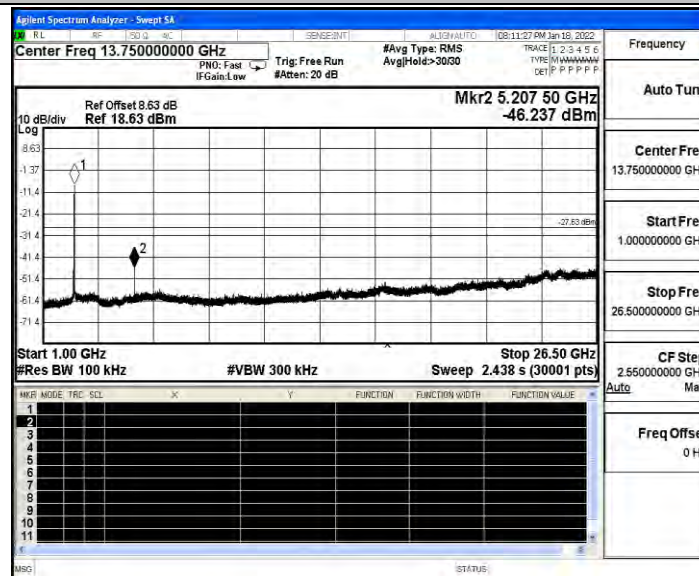




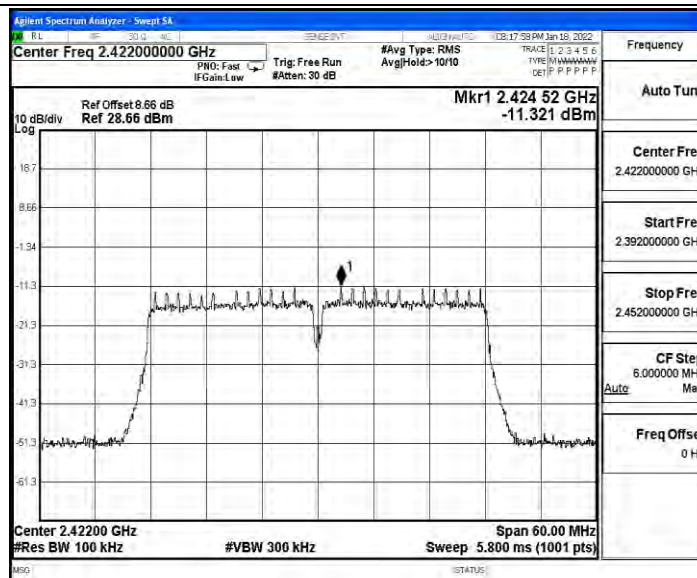
11N20SISO_Ant1_2462_30~1000



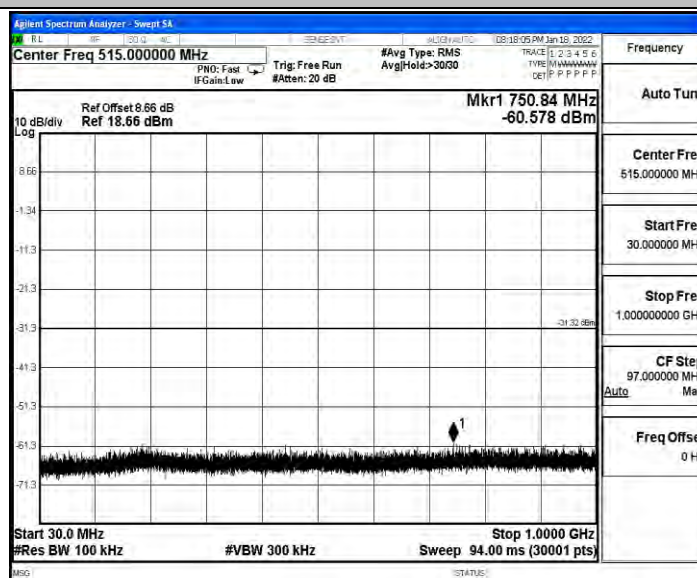
11N20SISO_Ant1_2462_1000~26500



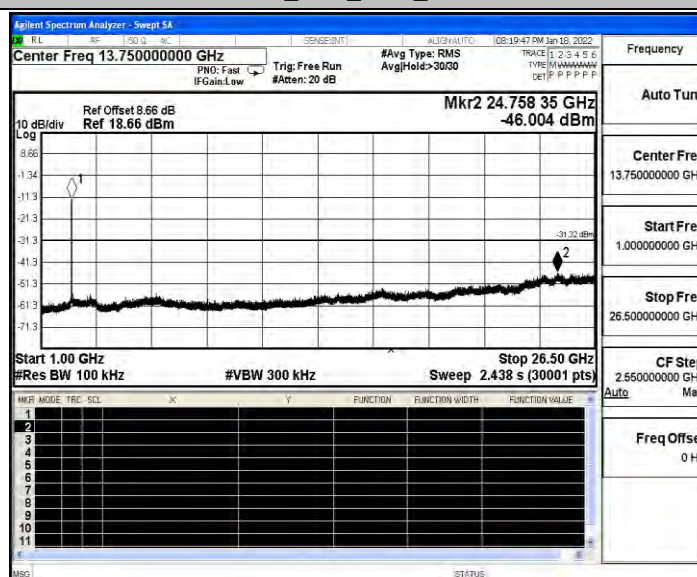
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

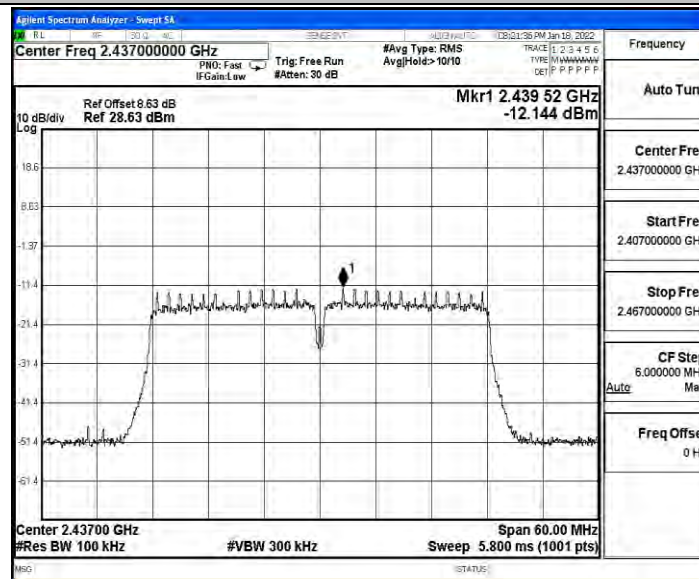


11N40SISO_Ant1_2422_1000~26500

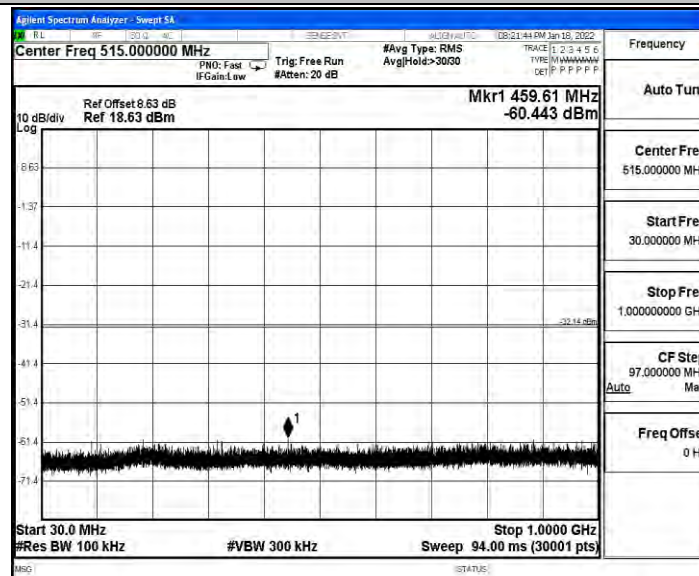




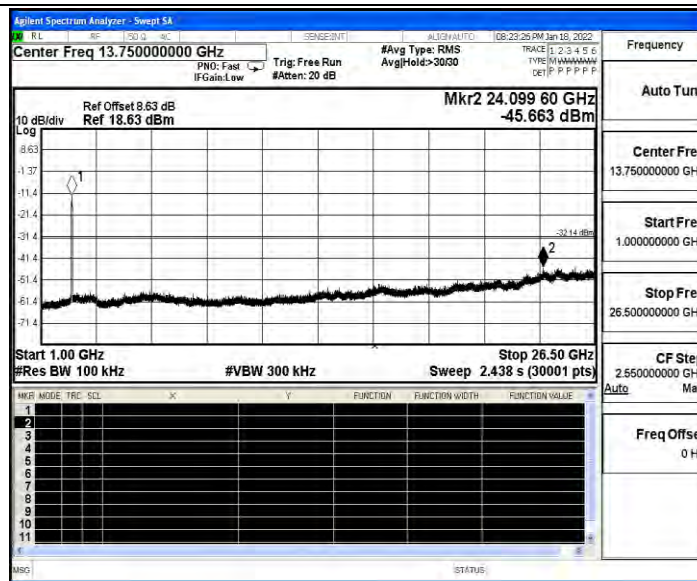
11N40SISO_Ant1_2437_0~Reference



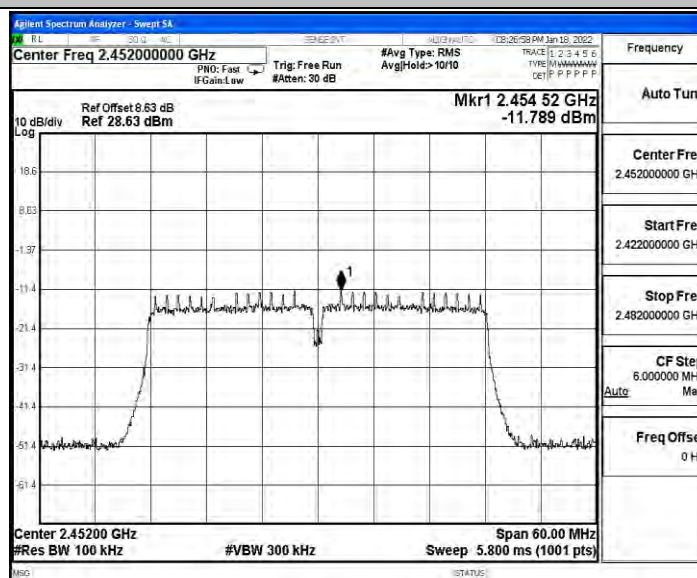
11N40SISO_Ant1_2437_30~1000



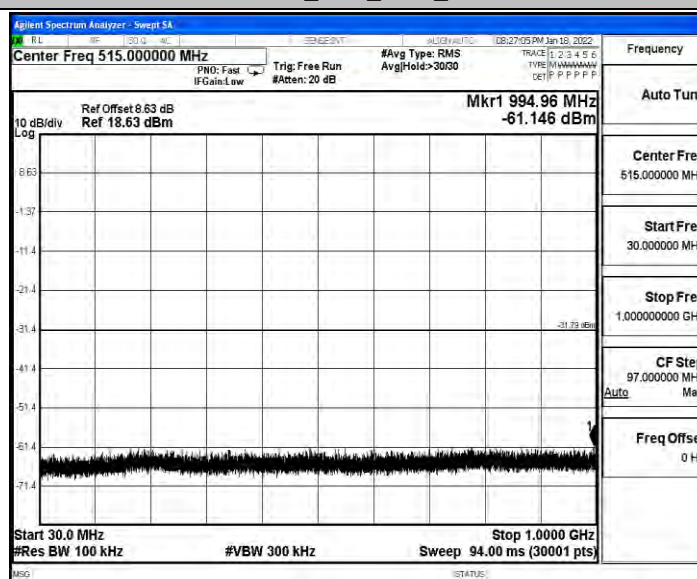
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference

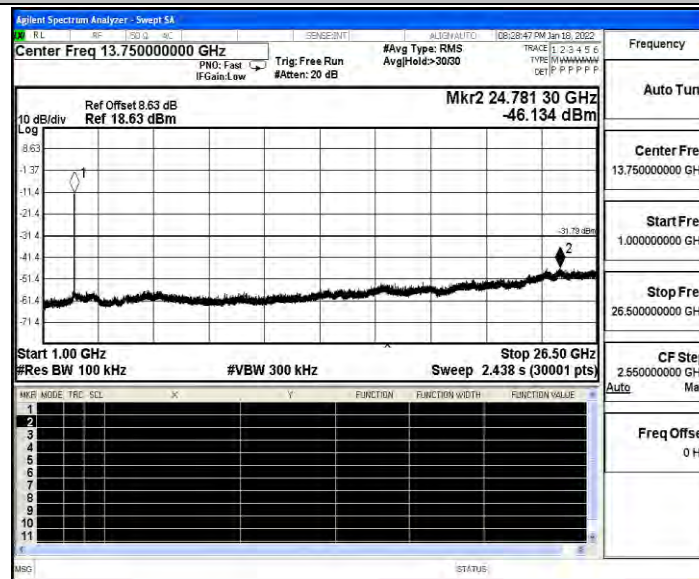


11N40SISO_Ant1_2452_30~1000





11N40SISO_Ant1_2452_1000~26500





C.6 Duty Cycle

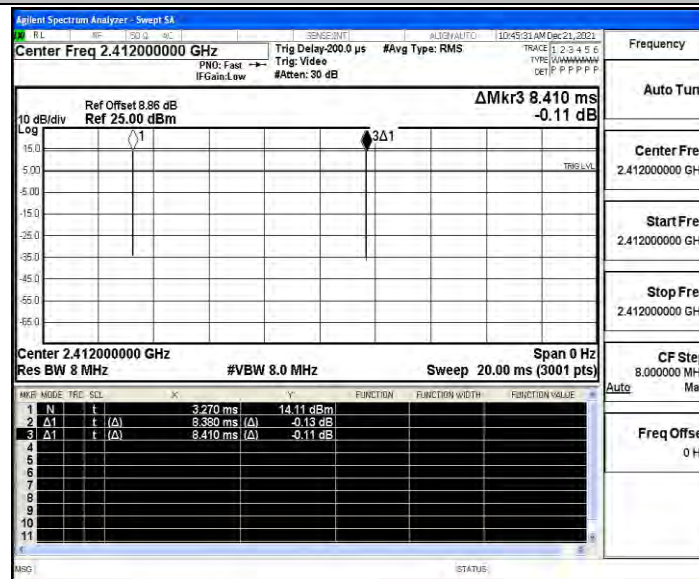
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant0	2412	8.38	8.41	99.64	---	---
		2437	8.39	8.42	99.64	---	---
		2462	8.39	8.42	99.64	---	---
11G	Ant0	2412	1.39	1.43	97.20	---	---
		2437	1.39	1.42	97.89	---	---
		2462	1.39	1.42	97.89	---	---
11N20SISO	Ant0	2412	1.30	1.34	97.01	---	---
		2437	1.30	1.34	97.01	---	---
		2462	1.30	1.34	97.01	---	---
11N40SISO	Ant0	2422	0.64	0.68	94.12	---	---
		2437	0.65	0.68	95.59	---	---
		2452	0.65	0.70	92.86	---	---

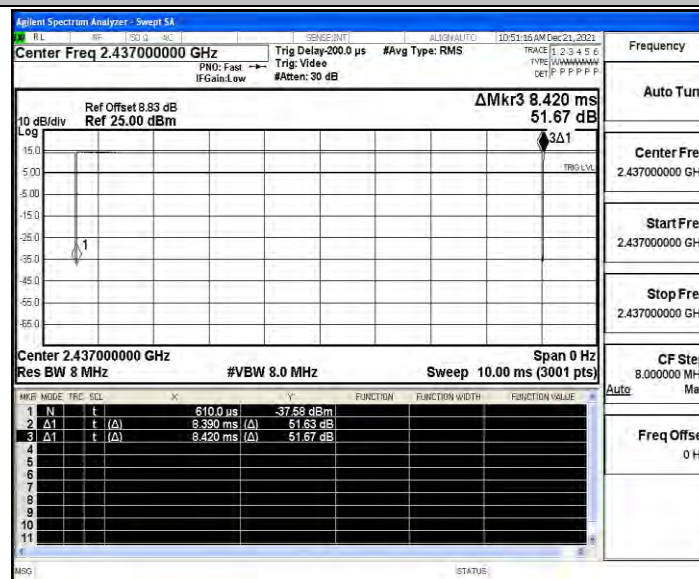


Test Graphs

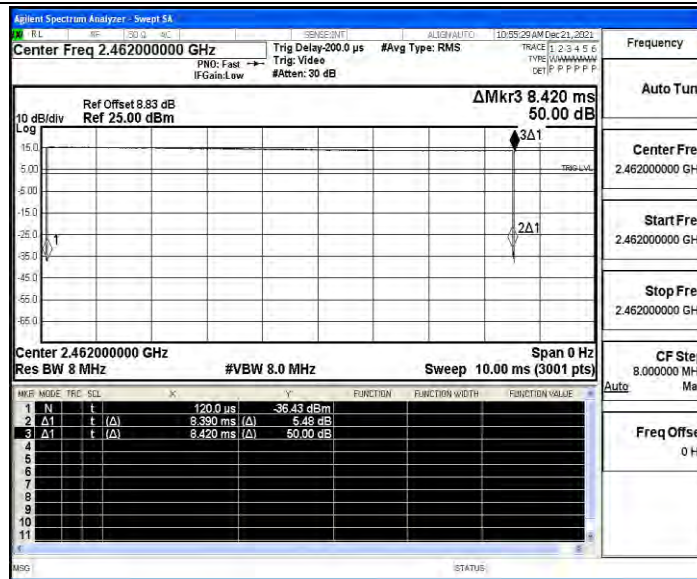
11B_Ant0_2412



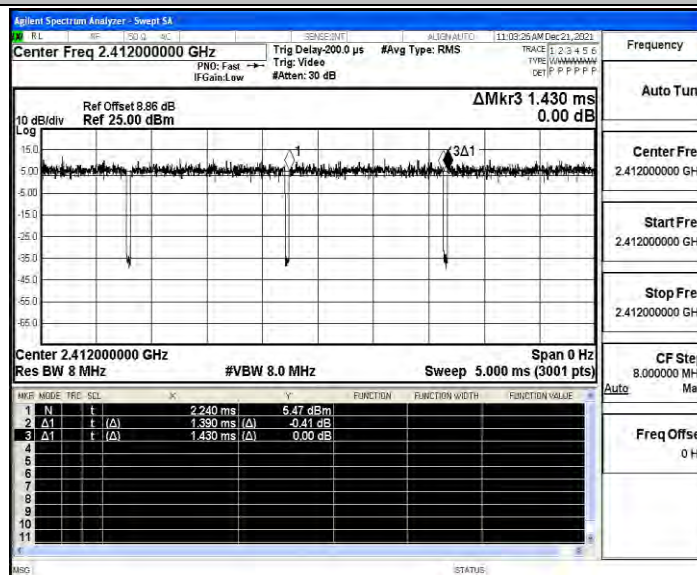
11B_Ant0_2437



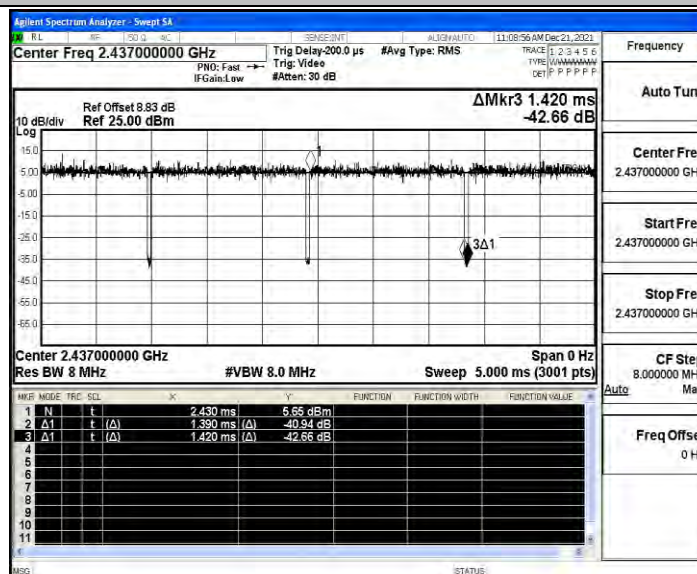
11B_Ant0_2462



11G_Ant0_2412

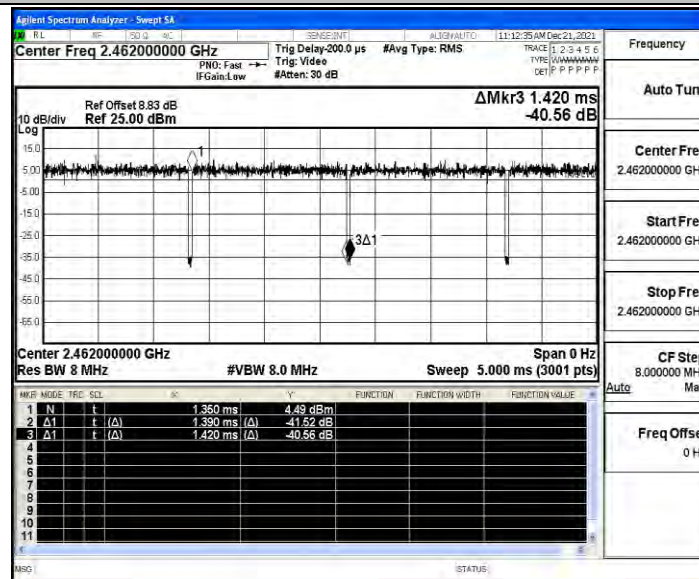


11G_Ant0_2437

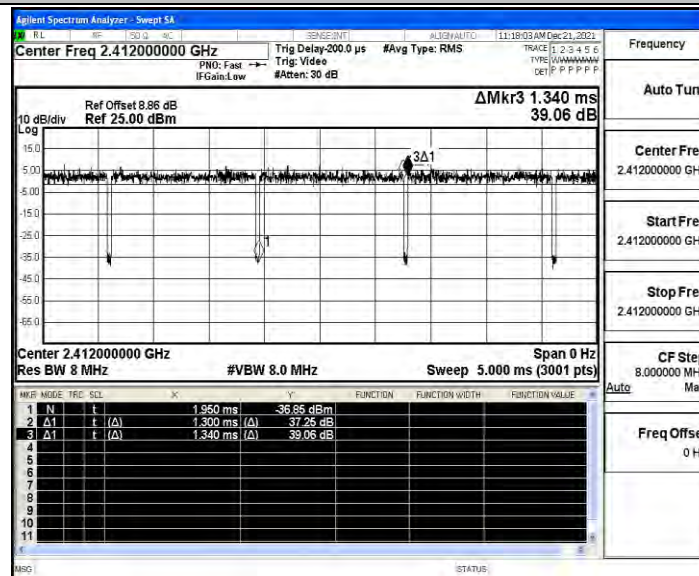




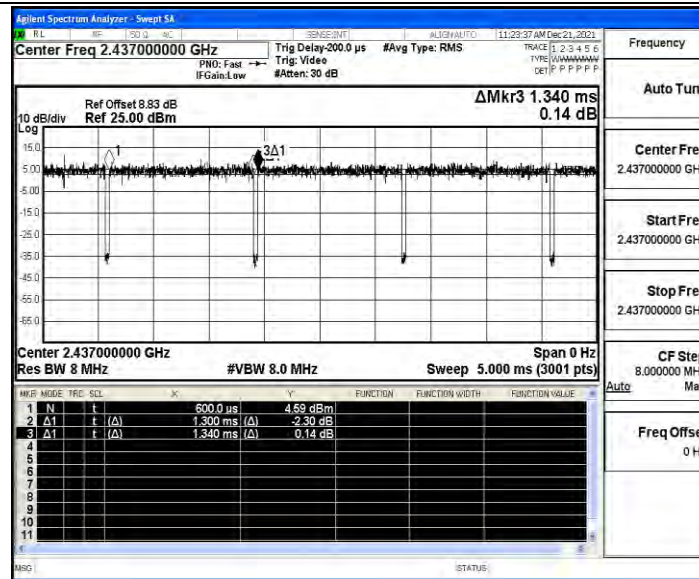
11G_Ant0_2462



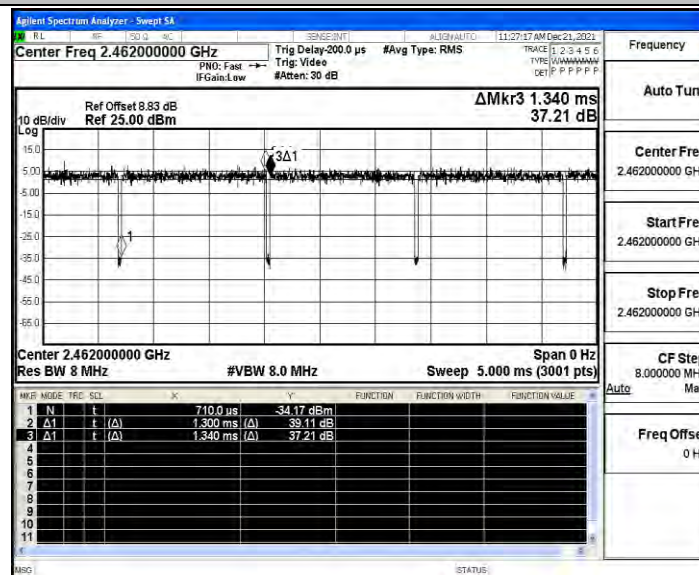
11N20SISO_Ant0_2412



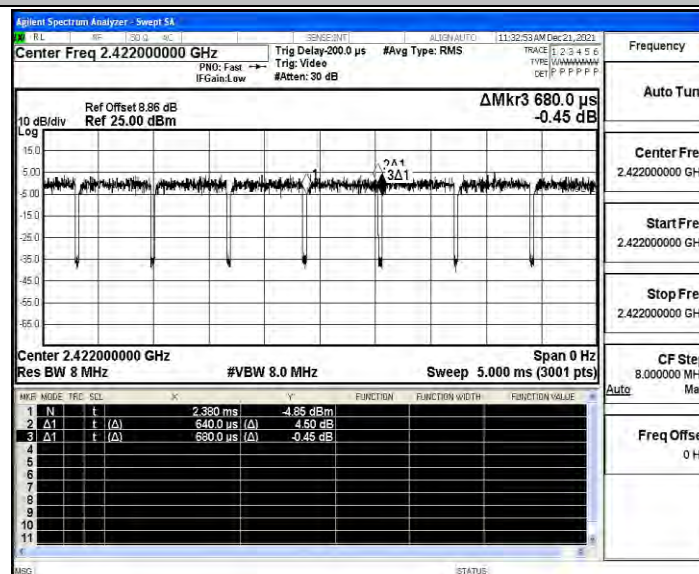
11N20SISO_Ant0_2437



11N20SISO_Ant0_2462

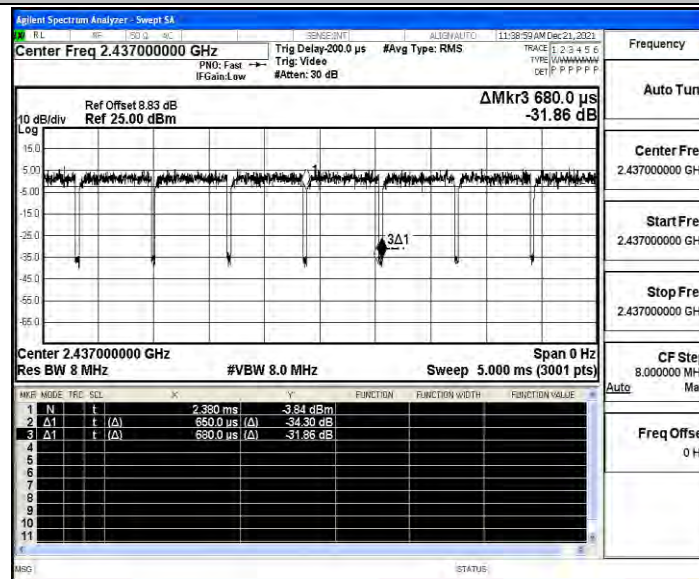


11N40SISO_Ant0_2422

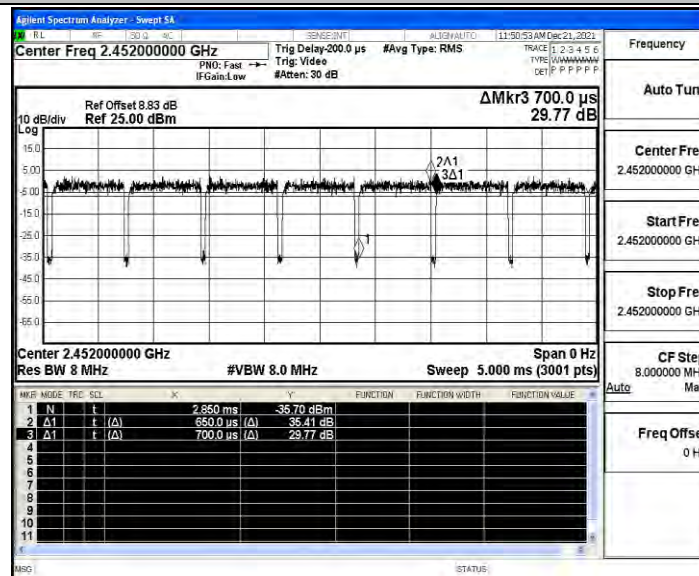




11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



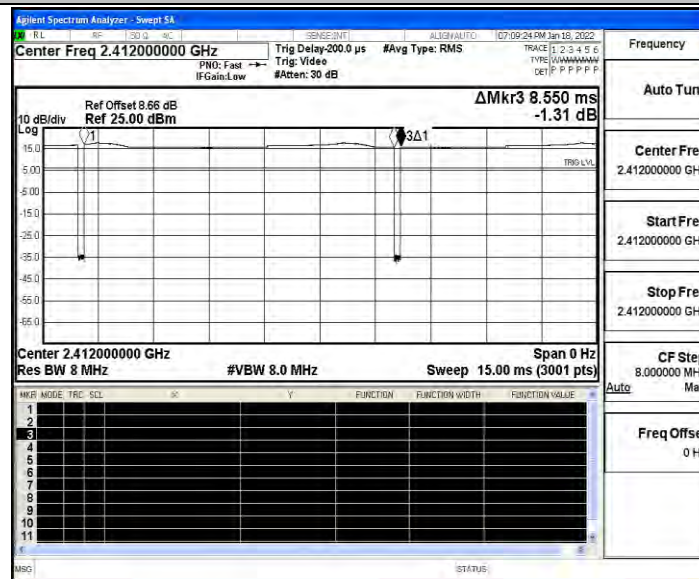


Test Result

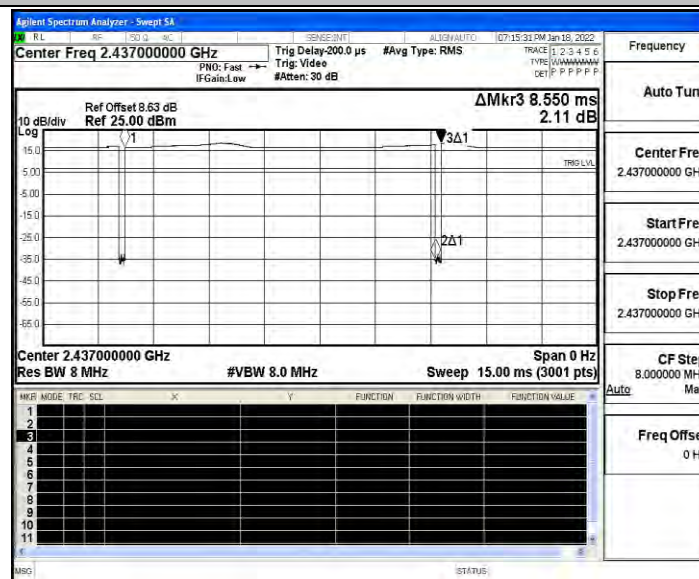
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.55	98.01	---	---
		2437	8.39	8.55	98.13	---	---
		2462	8.38	8.55	98.01	---	---
11G	Ant1	2412	1.39	1.56	89.10	---	---
		2437	1.39	1.57	88.54	---	---
		2462	1.39	1.56	89.10	---	---
11N20SISO	Ant1	2412	1.30	1.47	88.44	---	---
		2437	1.30	1.47	88.44	---	---
		2462	1.30	1.47	88.44	---	---
11N40SISO	Ant1	2422	0.64	0.68	94.12	---	---
		2437	0.64	0.68	94.12	---	---
		2452	0.64	0.68	94.12	---	---

Test Graphs

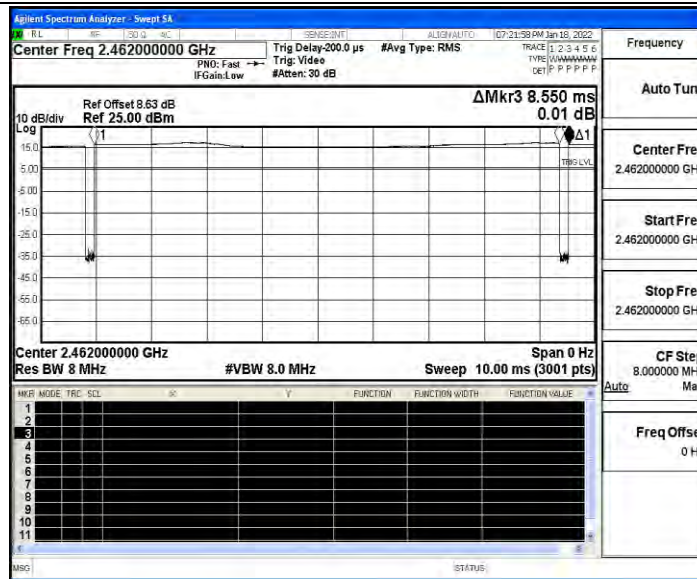
11B_Ant1_2412



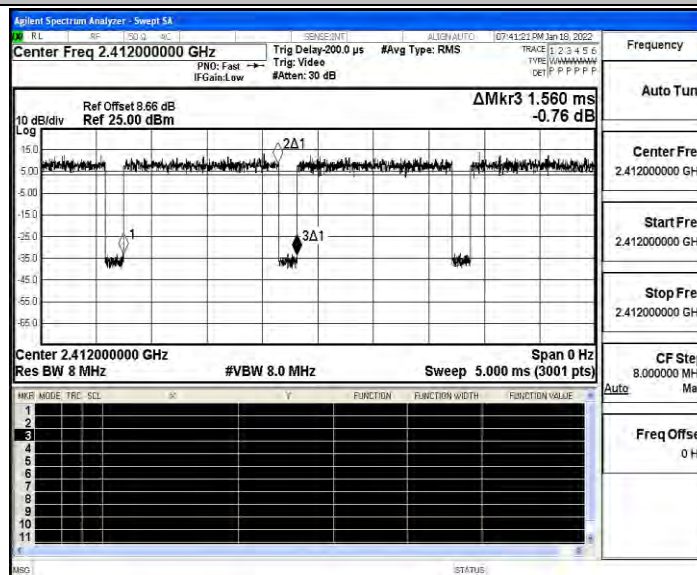
11B_Ant1_2437



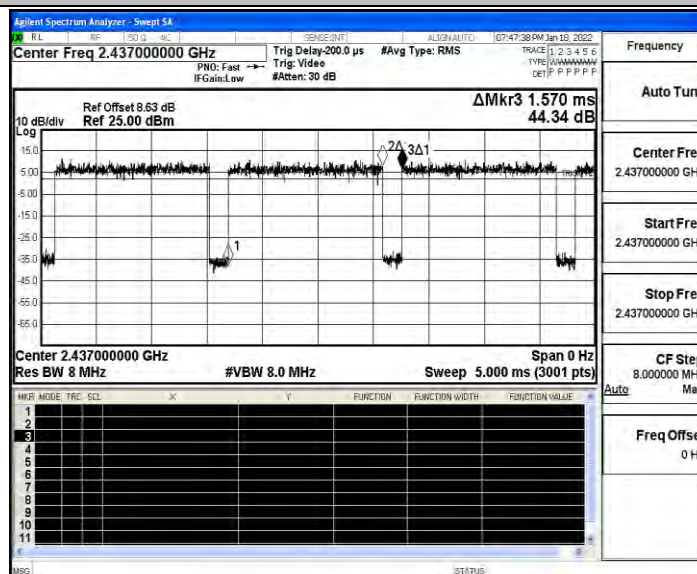
11B_Ant1_2462



11G_Ant1_2412

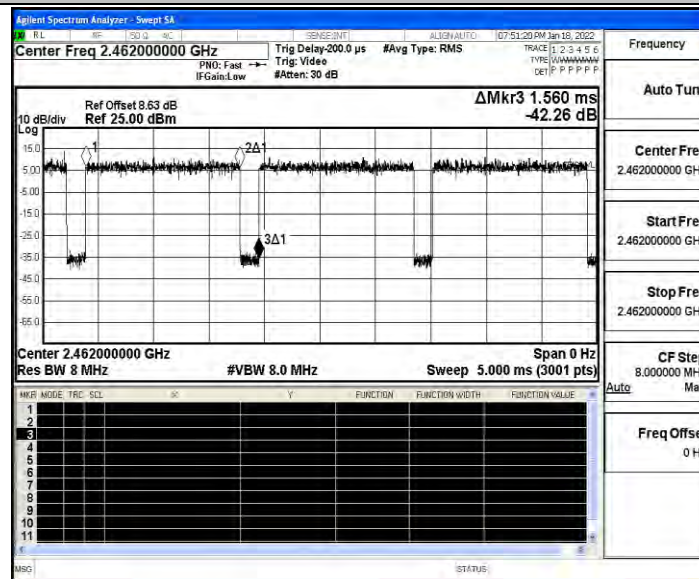


11G_Ant1_2437

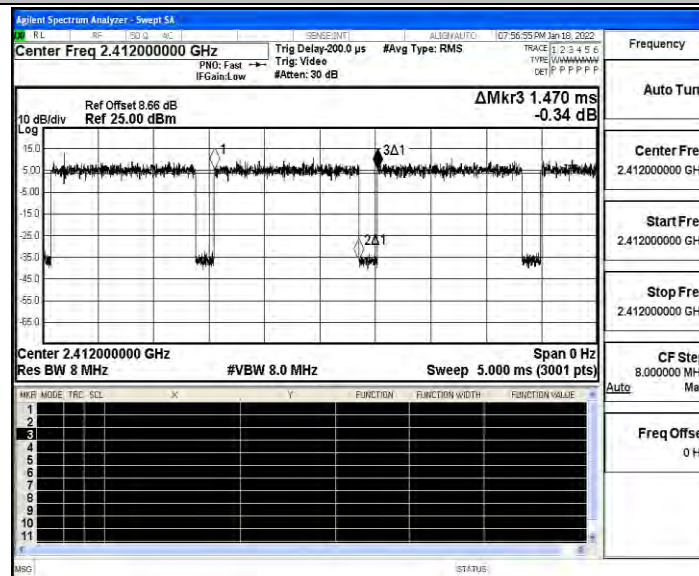




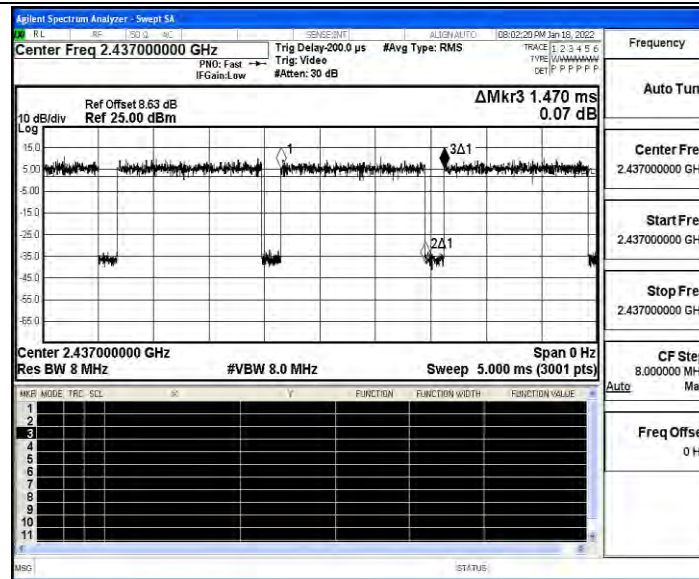
11G_Ant1_2462



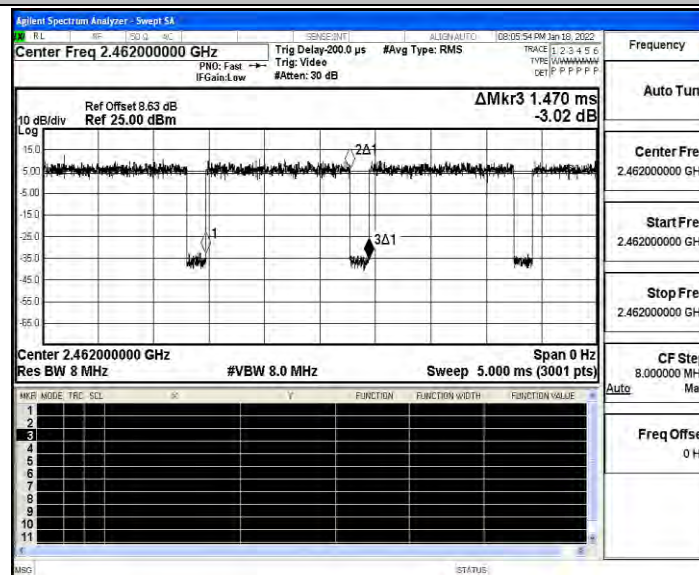
11N20SISO_Ant1_2412



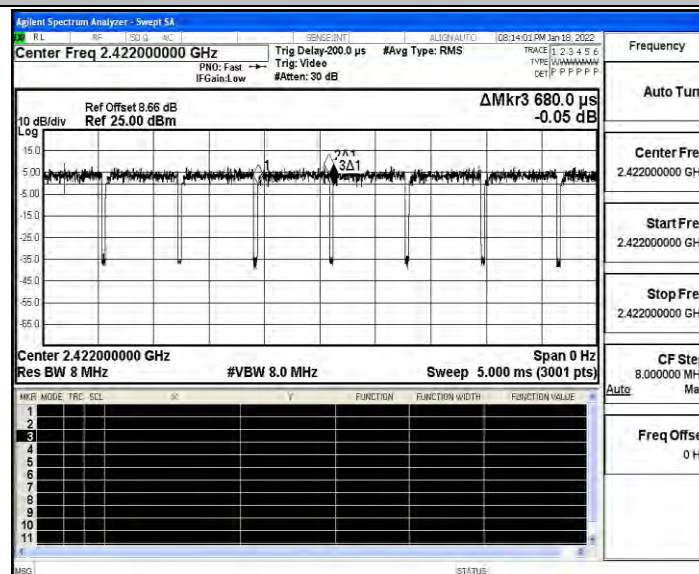
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

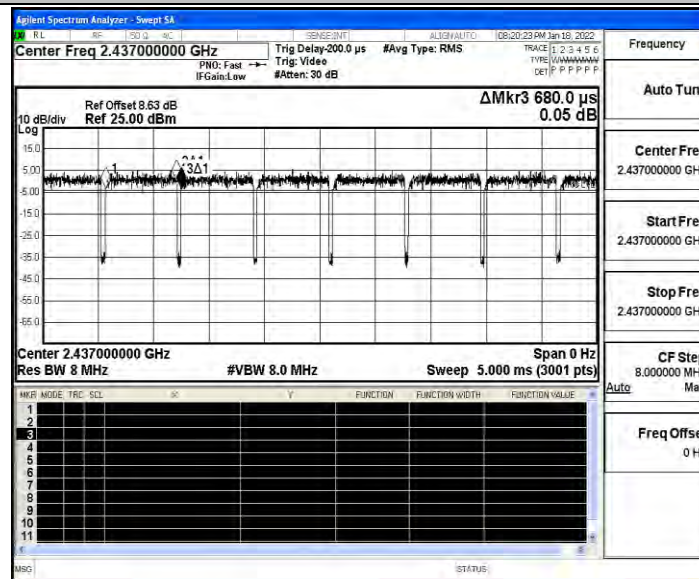


11N40SISO_Ant1_2422

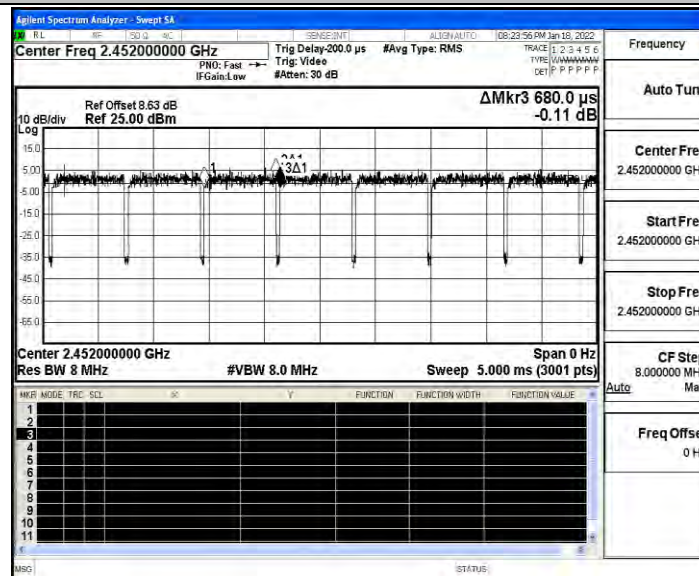




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant0	Low	2412	AV	2310.000	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2386.190	-48.22	≤-41.20	46.98	≤54	PASS
				AV	2390.000	-48.26	≤-41.20	46.94	≤54	PASS
				Peak	2310.000	-37.41	≤-21.20	57.79	≤74	PASS
				Peak	2336.660	-35.91	≤-21.20	59.29	≤74	PASS
				Peak	2390.000	-37.01	≤-21.20	58.19	≤74	PASS
		High	2462	AV	2483.500	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2487.960	-46.85	≤-41.20	48.35	≤54	PASS
				AV	2500.000	-47.73	≤-41.20	47.47	≤54	PASS
				Peak	2483.500	-37.51	≤-21.20	57.69	≤74	PASS
				Peak	2485.430	-35.38	≤-21.20	59.82	≤74	PASS
				Peak	2500.000	-36.99	≤-21.20	58.21	≤74	PASS
11G	Ant0	Low	2412	AV	2310.000	-48.07	≤-41.20	47.13	≤54	PASS
				AV	2385.410	-47.73	≤-41.20	47.47	≤54	PASS
				AV	2390.000	-47.85	≤-41.20	47.35	≤54	PASS
				Peak	2310.000	-37.6	≤-21.20	57.60	≤74	PASS
				Peak	2345.370	-35.69	≤-21.20	59.51	≤74	PASS
				Peak	2390.000	-37.43	≤-21.20	57.77	≤74	PASS
		High	2462	AV	2483.500	-47.28	≤-41.20	47.92	≤54	PASS
				AV	2487.960	-46.4	≤-41.20	48.80	≤54	PASS
				AV	2500.000	-47.27	≤-41.20	47.93	≤54	PASS
				Peak	2483.500	-37.68	≤-21.20	57.52	≤74	PASS
				Peak	2488.400	-35.74	≤-21.20	59.46	≤74	PASS
				Peak	2500.000	-37.02	≤-21.20	58.18	≤74	PASS
11N20SI SO	Ant0	Low	2412	AV	2310.000	-48.26	≤-41.20	46.94	≤54	PASS
				AV	2379.690	-47.76	≤-41.20	47.44	≤54	PASS
				AV	2390.000	-47.87	≤-41.20	47.33	≤54	PASS
				Peak	2310.000	-37.91	≤-21.20	57.29	≤74	PASS
				Peak	2388.270	-36.17	≤-21.20	59.03	≤74	PASS
				Peak	2390.000	-37.68	≤-21.20	57.52	≤74	PASS
		High	2462	AV	2483.500	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2488.070	-46.81	≤-41.20	48.39	≤54	PASS
				AV	2500.000	-47.34	≤-41.20	47.86	≤54	PASS
				Peak	2483.500	-37.04	≤-21.20	58.16	≤74	PASS
				Peak	2493.460	-35.13	≤-21.20	60.07	≤74	PASS
				Peak	2500.000	-36.18	≤-21.20	59.02	≤74	PASS
11N40SI	Ant0	Low	2422	AV	2310.000	-47.9	≤-41.20	47.30	≤54	PASS



SO				AV	2355.120	-47.37	≤-41.20	47.83	≤54	PASS
				AV	2390.000	-47.59	≤-41.20	47.61	≤54	PASS
				Peak	2310.000	-37.91	≤-21.20	57.29	≤74	PASS
				Peak	2327.300	-36.07	≤-21.20	59.13	≤74	PASS
				Peak	2390.000	-37.62	≤-21.20	57.58	≤74	PASS
		High	2452	AV	2483.500	-47.28	≤-41.20	47.92	≤54	PASS
				AV	2490.380	-46.75	≤-41.20	48.45	≤54	PASS
				AV	2500.000	-47.01	≤-41.20	48.19	≤54	PASS
				Peak	2483.500	-37.11	≤-21.20	58.09	≤74	PASS
				Peak	2485.650	-35.72	≤-21.20	59.48	≤74	PASS
				Peak	2500.000	-36.75	≤-21.20	58.45	≤74	PASS

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2389.960	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2390.000	-47.95	≤-41.20	47.25	≤54	PASS
				Peak	2310.000	-38.39	≤-21.20	56.81	≤74	PASS
				Peak	2356.680	-35.57	≤-21.20	59.63	≤74	PASS
				Peak	2390.000	-36.9	≤-21.20	58.30	≤74	PASS
		High	2462	AV	2483.500	-47.45	≤-41.20	47.75	≤54	PASS
				AV	2483.890	-47.38	≤-41.20	47.82	≤54	PASS
				AV	2500.000	-47.58	≤-41.20	47.62	≤54	PASS
				Peak	2483.500	-36.76	≤-21.20	58.44	≤74	PASS
				Peak	2488.840	-35.65	≤-21.20	59.55	≤74	PASS
				Peak	2500.000	-37.13	≤-21.20	58.07	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2388.660	-47.6	≤-41.20	47.60	≤54	PASS
				AV	2390.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2310.000	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	2383.330	-35.51	≤-21.20	59.69	≤74	PASS
				Peak	2390.000	-37.35	≤-21.20	57.85	≤74	PASS
		High	2462	AV	2483.500	-47.48	≤-41.20	47.72	≤54	PASS
				AV	2498.080	-47.24	≤-41.20	47.96	≤54	PASS
				AV	2500.000	-47.42	≤-41.20	47.78	≤54	PASS
				Peak	2483.500	-36.56	≤-21.20	58.64	≤74	PASS
				Peak	2498.740	-35.46	≤-21.20	59.74	≤74	PASS
				Peak	2500.000	-37.05	≤-21.20	58.15	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2387.230	-47.64	≤-41.20	47.56	≤54	PASS
				AV	2390.000	-47.74	≤-41.20	47.46	≤54	PASS
				Peak	2310.000	-38.42	≤-21.20	56.78	≤74	PASS
				Peak	2353.430	-36.34	≤-21.20	58.86	≤74	PASS



				Peak	2390.000	-37.84	≤-21.20	57.36	≤74	PASS
		High	2462	AV	2483.500	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2491.810	-47.19	≤-41.20	48.01	≤54	PASS
				AV	2500.000	-47.47	≤-41.20	47.73	≤54	PASS
				Peak	2483.500	-37.12	≤-21.20	58.08	≤74	PASS
				Peak	2486.860	-36.05	≤-21.20	59.15	≤74	PASS
				Peak	2500.000	-37.14	≤-21.20	58.06	≤74	PASS
11N40SI SO	Ant1	Low	2422	AV	2310.000	-48.2	≤-41.20	47.00	≤54	PASS
				AV	2389.570	-47.45	≤-41.20	47.75	≤54	PASS
				AV	2390.000	-47.77	≤-41.20	47.43	≤54	PASS
				Peak	2310.000	-38.74	≤-21.20	56.46	≤74	PASS
				Peak	2382.550	-36.33	≤-21.20	58.87	≤74	PASS
				Peak	2390.000	-37.94	≤-21.20	57.26	≤74	PASS
		High	2452	AV	2483.500	-47.34	≤-41.20	47.86	≤54	PASS
				AV	2499.180	-46.87	≤-41.20	48.33	≤54	PASS
				AV	2500.000	-47.11	≤-41.20	48.09	≤54	PASS
				Peak	2483.500	-36.83	≤-21.20	58.37	≤74	PASS
				Peak	2484.220	-35.84	≤-21.20	59.36	≤74	PASS
				Peak	2500.000	-36.63	≤-21.20	58.57	≤74	PASS



MIMO

Test Mode	Freq.	Covert Radiated E Level At 3m (dBuV/m)			Ground Reflection Factor (dB)	E [dBuV/ m]	Detector	Limit (dBuV/m)
		Ant0	Ant1	MIMO				
11N20 MIMO	2310.000	-48.26	-48.53	-45.38	0	49.85	AV	≤54
	2389.180	-47.76	-47.64	-44.69	0	50.54	AV	≤54
	2390.000	-47.87	-47.74	-44.79	0	50.44	AV	≤54
	2310.000	-37.91	-38.42	-35.15	0	60.08	Peak	≤74
	2357.590	-36.17	-36.34	-33.24	0	61.99	Peak	≤74
	2390.000	-37.68	-37.84	-34.75	0	60.48	Peak	≤74
	2483.500	-47.39	-47.46	-44.41	0	50.82	AV	≤54
	2499.840	-46.81	-47.19	-43.99	0	51.24	AV	≤54
	2500.000	-47.34	-47.47	-44.39	0	50.84	AV	≤54
11N40 MIMO	2483.500	-37.04	-37.12	-34.07	0	61.16	Peak	≤74
	2497.750	-35.13	-36.05	-32.56	0	62.67	Peak	≤74
	2500.000	-36.18	-37.14	-33.62	0	61.61	Peak	≤74
	2310.000	-47.9	-48.2	-45.04	0	50.19	AV	≤54
	2389.700	-47.37	-47.45	-44.40	0	50.83	AV	≤54
	2390.000	-47.59	-47.77	-44.67	0	50.56	AV	≤54
	2310.000	-37.91	-38.74	-35.29	0	59.94	Peak	≤74
	2311.960	-36.07	-36.33	-33.19	0	62.04	Peak	≤74
	2390.000	-37.62	-37.94	-34.77	0	60.46	Peak	≤74
	2483.500	-47.28	-47.34	-44.30	0	50.93	AV	≤54
	2499.620	-46.75	-46.87	-43.80	0	51.43	AV	≤54
	2500.000	-47.01	-47.11	-44.05	0	51.18	AV	≤54
	2483.500	-37.11	-36.83	-33.96	0	61.27	Peak	≤74
	2492.250	-35.72	-35.84	-32.77	0	62.46	Peak	≤74
	2500.000	-36.75	-36.63	-33.68	0	61.55	Peak	≤74

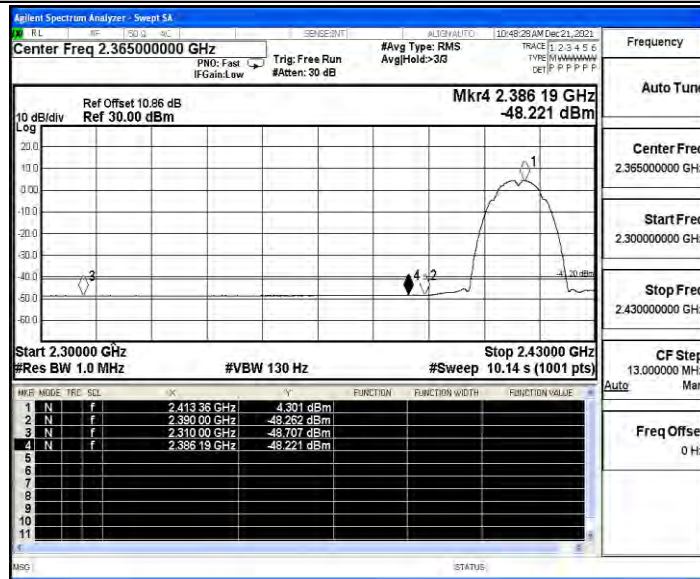
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

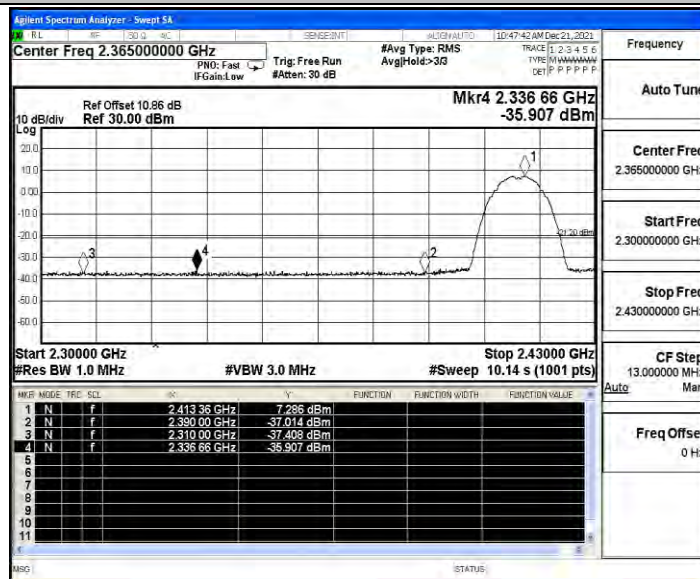


Test Graphs

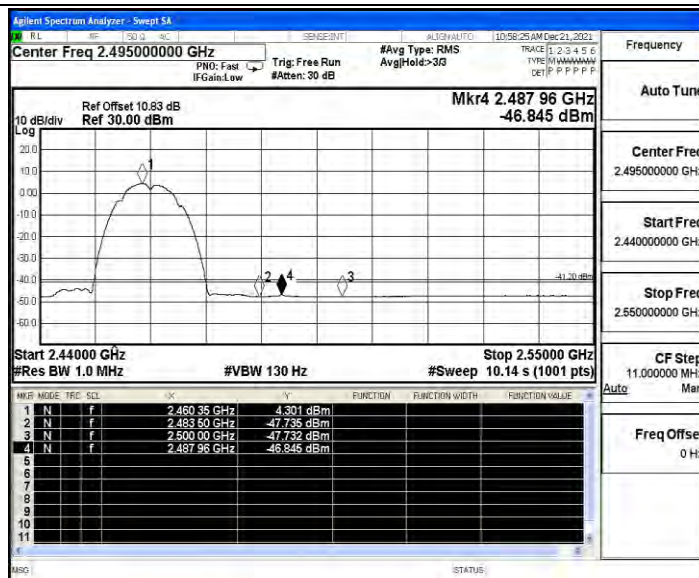
11B_Ant0_Low_2412_AV



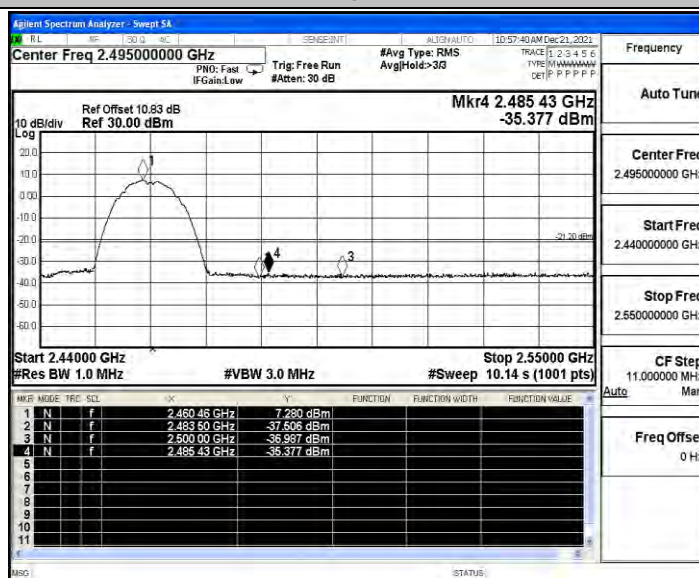
11B_Ant0_Low_2412_Peak



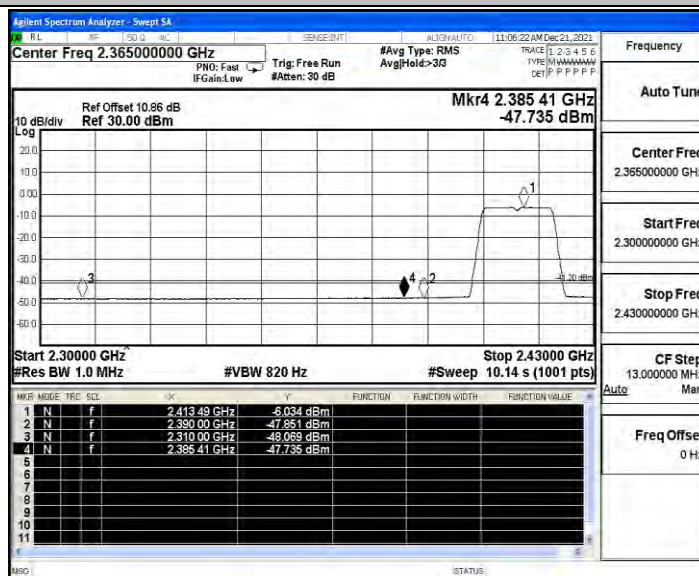
11B_Ant0_High_2462_AV



11B_Ant0_High_2462_Peak

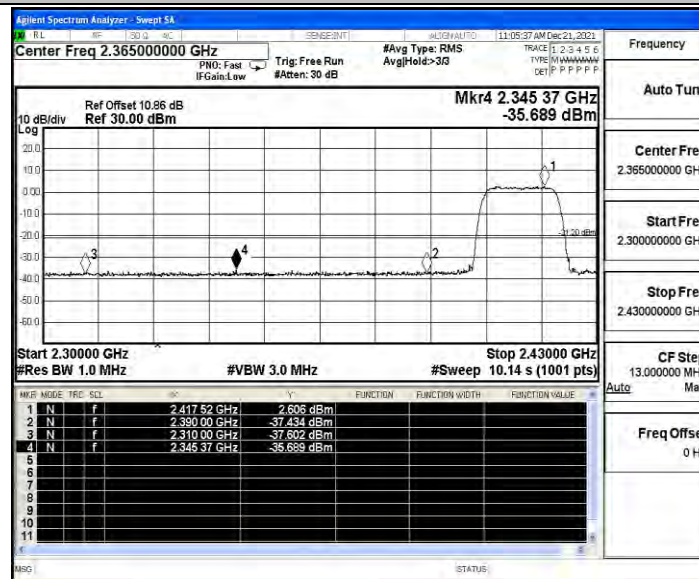


11G_Ant0_Low_2412_AV

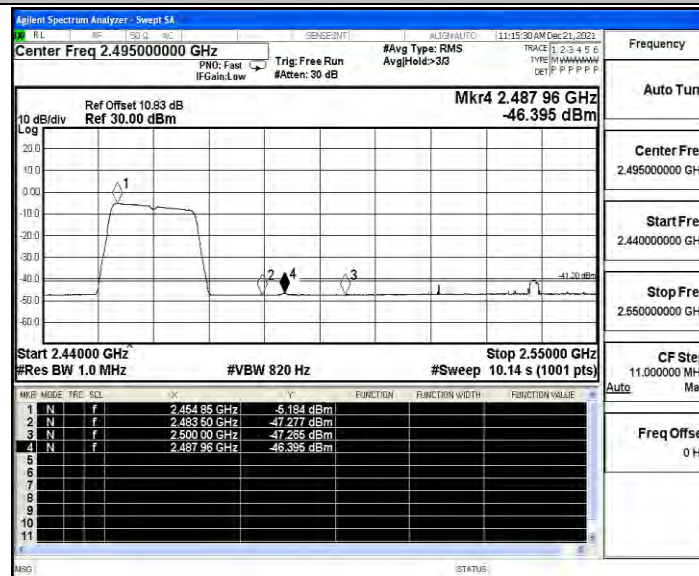




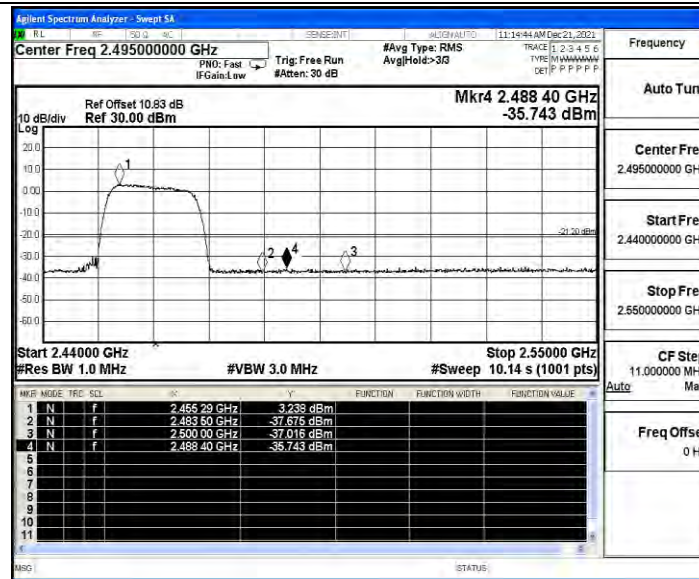
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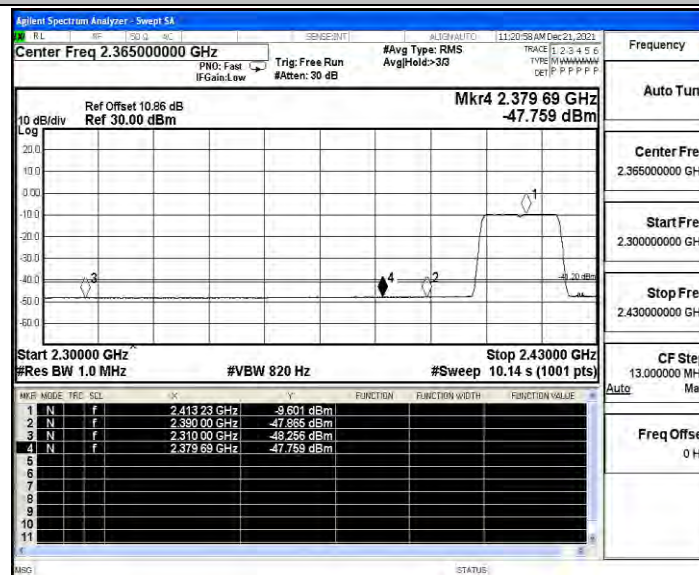
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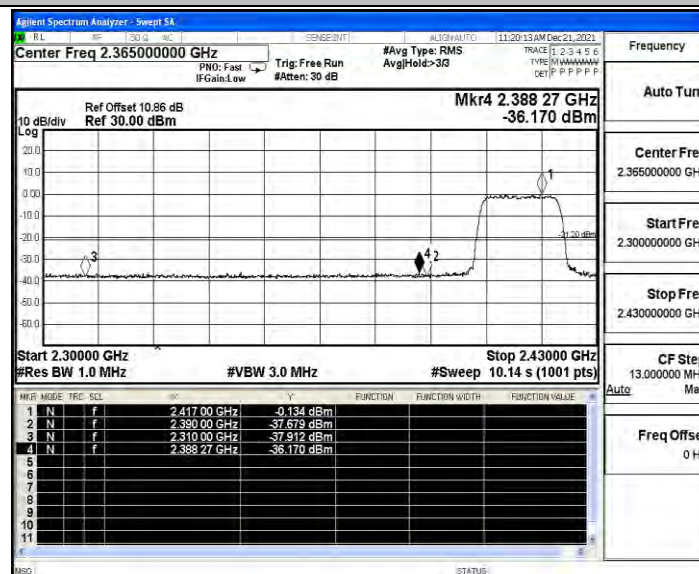
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11N20SISO_Ant0_Low_2412_AV

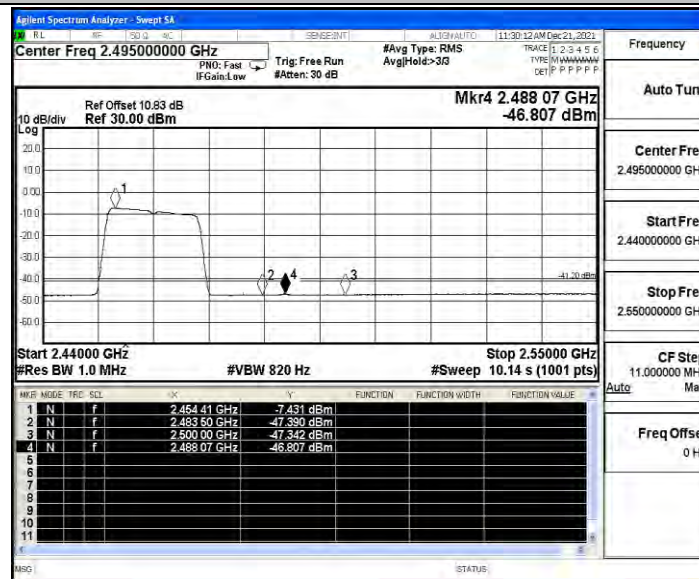


11N20SISO_Ant0_Low_2412_Peak

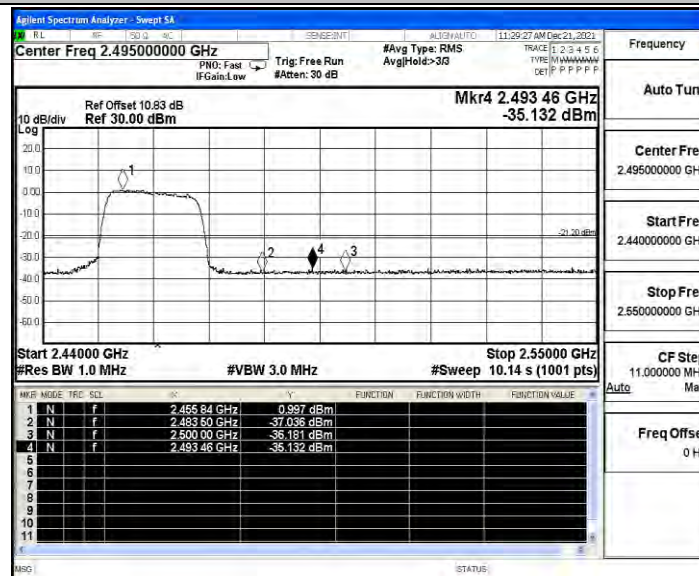




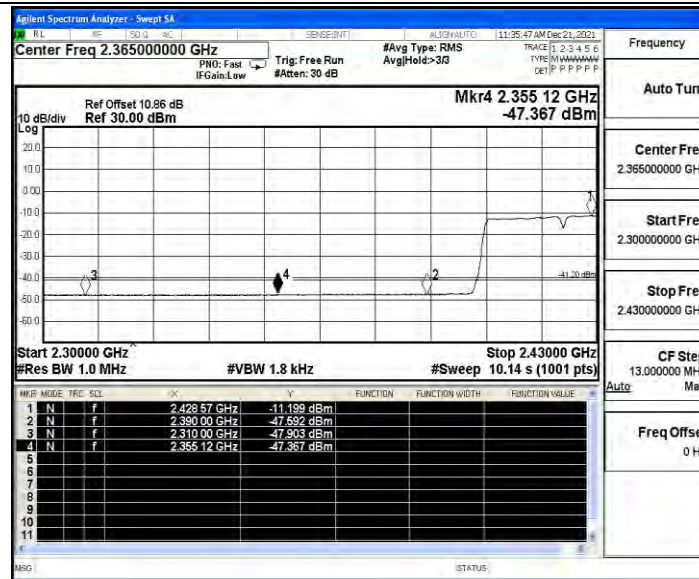
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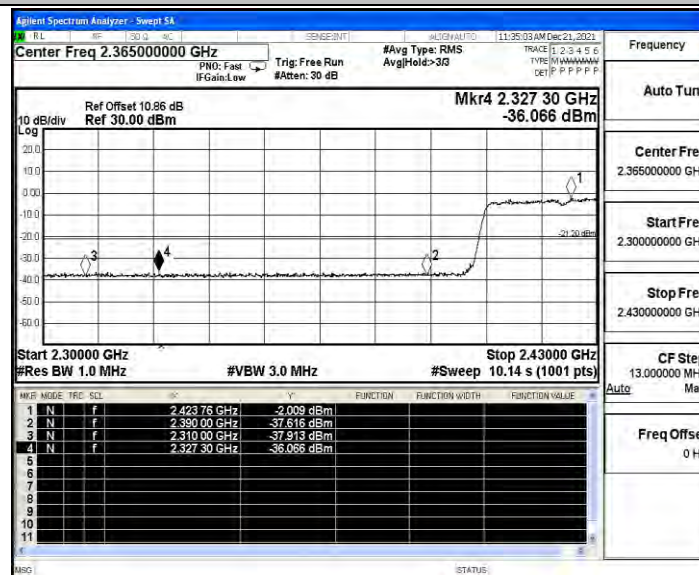
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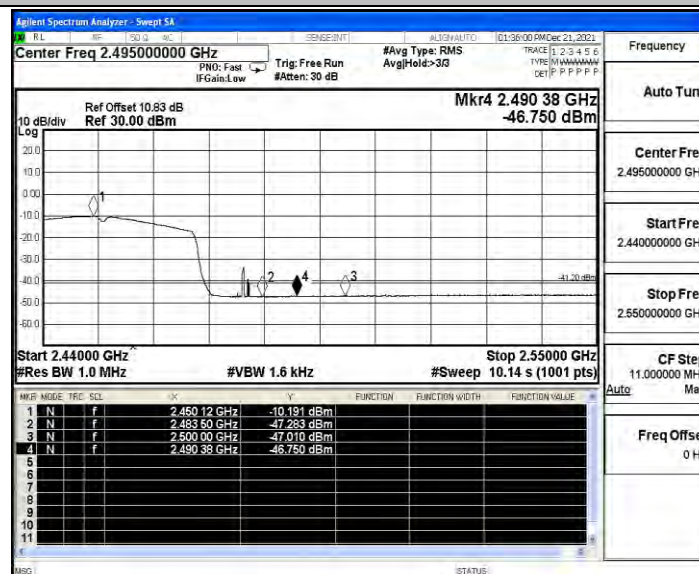
11N40SISO_Ant0_Low_2422_AV



11N40SISO_Ant0_Low_2422_Peak

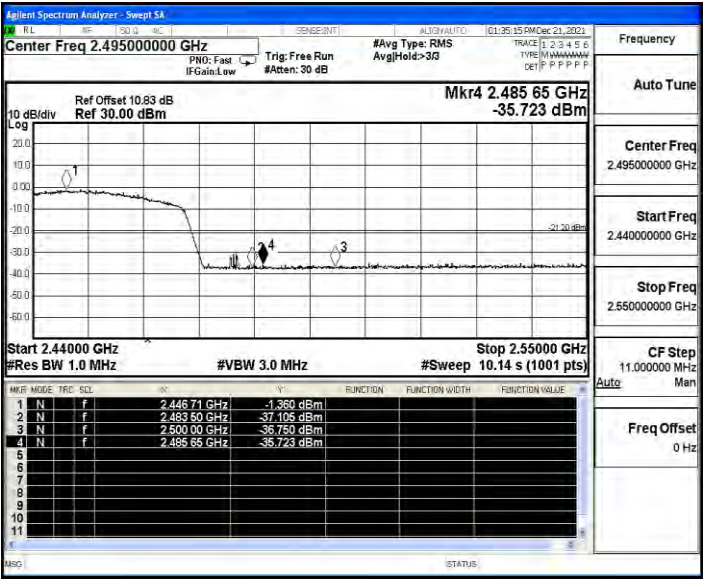


11N40SISO_Ant0_High_2452_AV



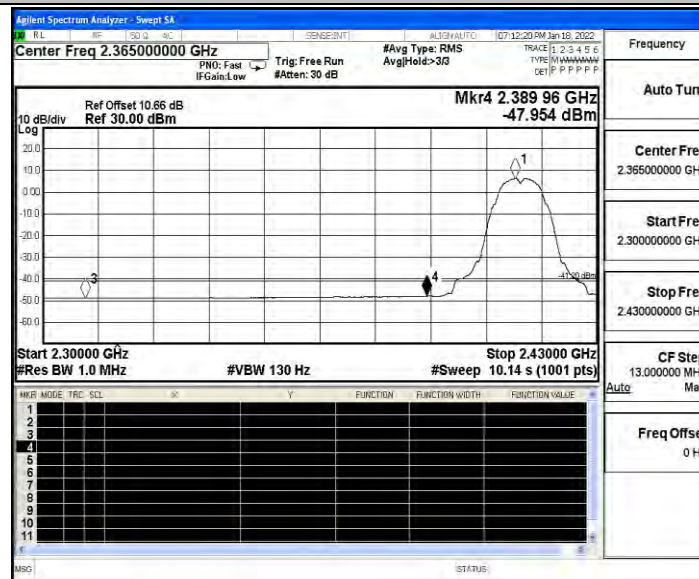


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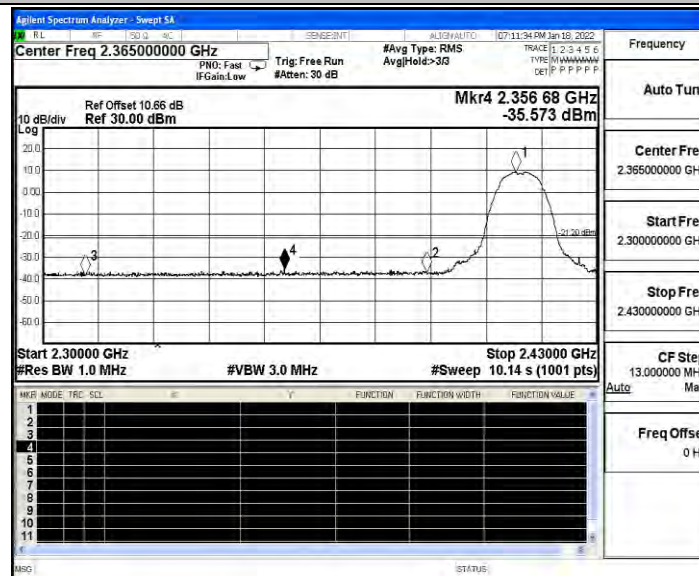




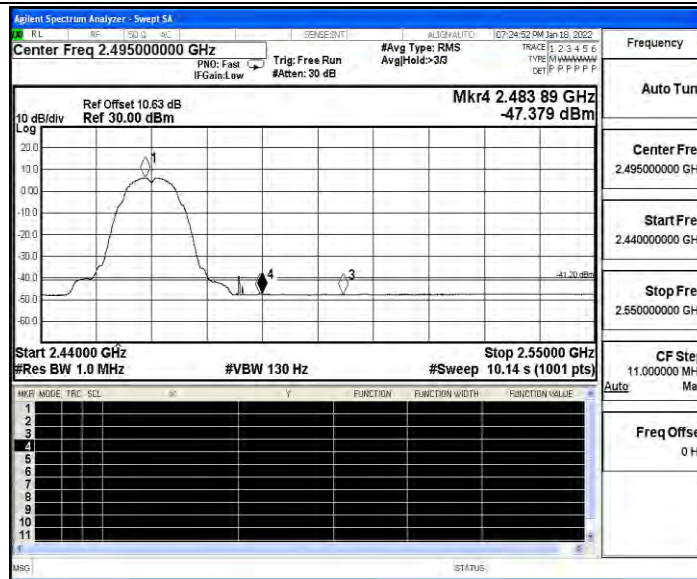
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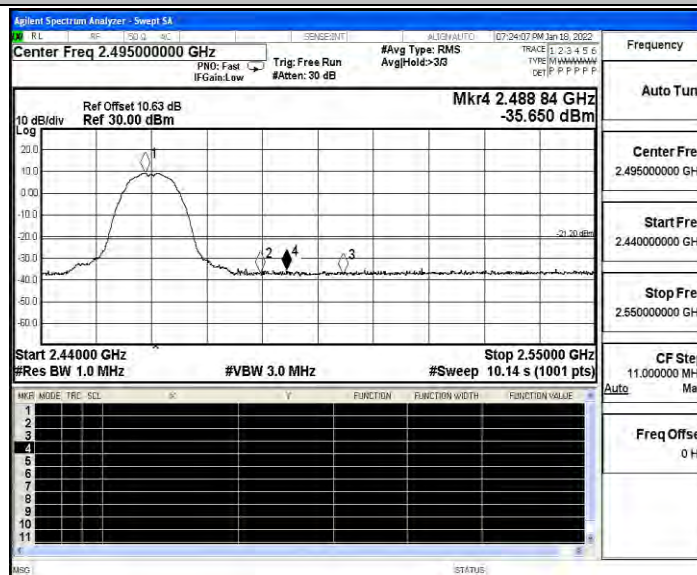
11B_Ant1_Low_2412_Peak



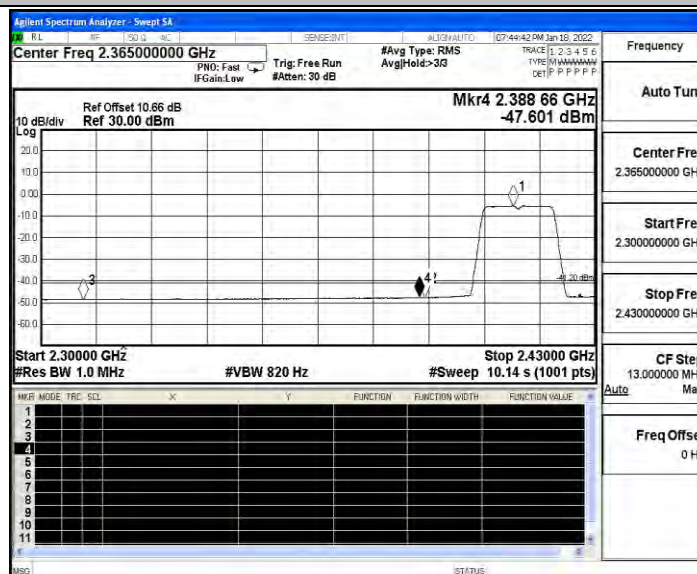
11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak

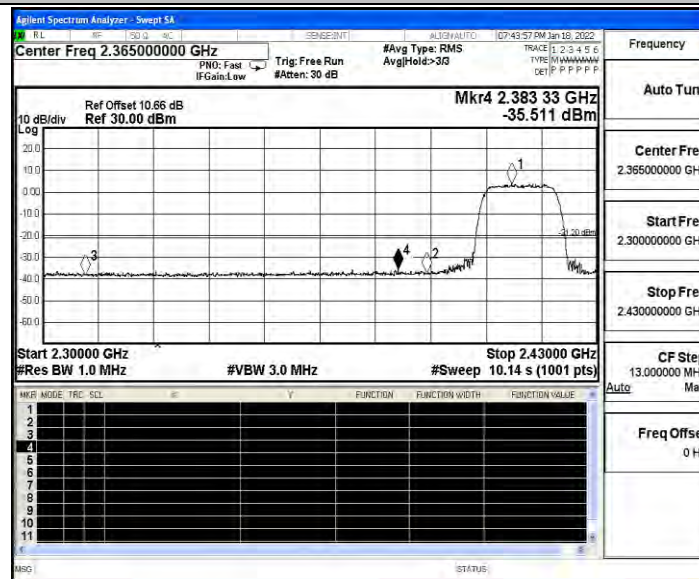


11G_Ant1_Low_2412_AV

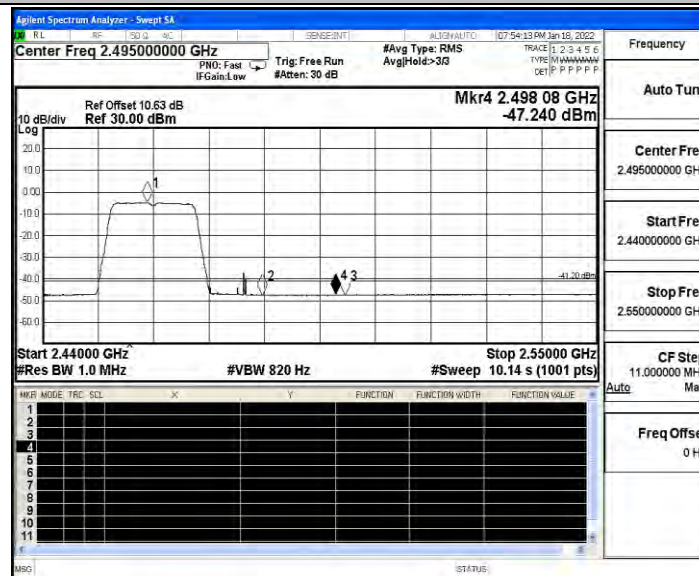




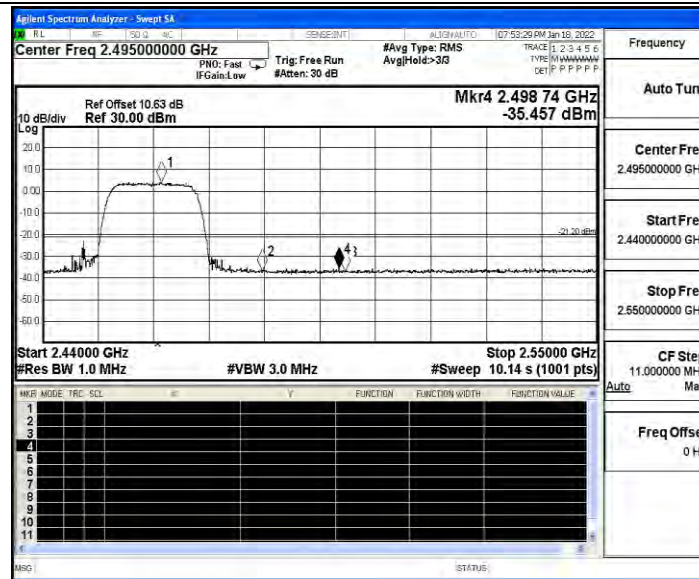
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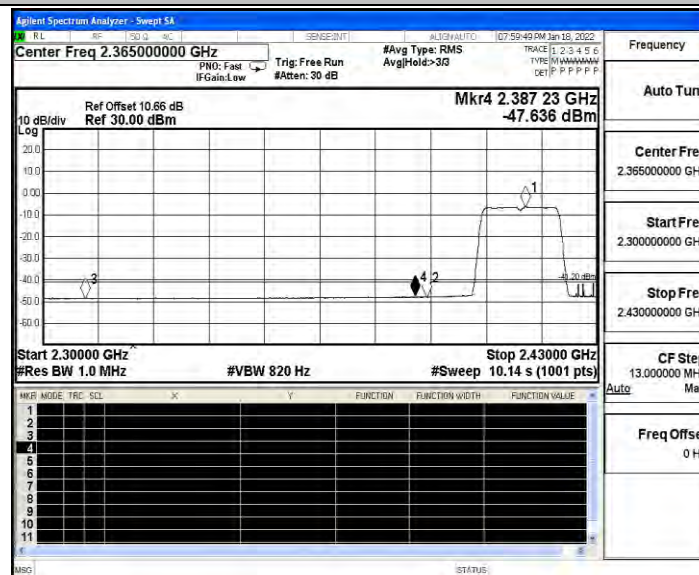
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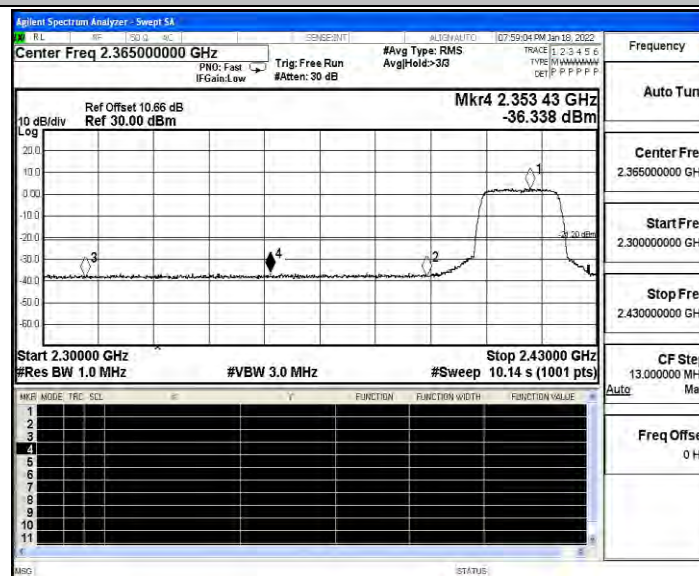
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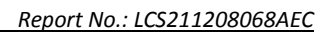


11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak





Agilent Spectrum Analyzer - Swept SA

INL SP 50.0 dBm 10.0 dB

SENSE(BT)

ALC(RV)AUT

GB:09:29 AM Jan 18, 2022

Center Freq 2.495000000 GHz

#Avg Type: RMS

AvgHold>3/3

TYPE:WVWMMWMM

DET:PPPPPP

Frequency

Auto Tun

Center Freq

2.495000000 GHz

Start Freq

2.440000000 GHz

Stop Freq

2.550000000 GHz

CF Ste

11.000000 MHz

Auto

Freq Offset

0 Hz

10 dB/div

Ref Offset 10.63 dB

Ref 30.00 dBm

Mkr4 2.491 81 GHz

-47.186 dBm

Log

PNO: Fast

IF Gain: Low

Trig: Free Run

#Atten: 30 dB

1

2

4

3

-41.20 dBm

Start 2.44000 GHz

#Res BW 1.0 MHz

#VBW 820 Hz

Stop 2.55000 GHz

#Sweep 10.14 s (1001 pts)

MKR	MODE	TRC	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Agilent Spectrum Analyzer - Sweep SA

RL 100 dB 100 dB 100 dB SENSE INT ALIBEN AUTO 08:08:45 AM Jan 18, 2022

Center Freq 2.495000000 GHz Trg: Free Run #Avg Type: RMS AvgHold>303

PNO: Fast IF Gain: Low #Atten: 30 dB

Frequency Auto Tun

Ref Offset 10.63 dB Ref 30.00 dBm Mkr4 2.486 86 GHz -36.051 dBm

10 dBdiv Log

Start 2.44000 GHz Stop 2.55000 GHz

#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 10.14 s (1001 pts)

MKR	MODE	TRC	SEL	dB	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

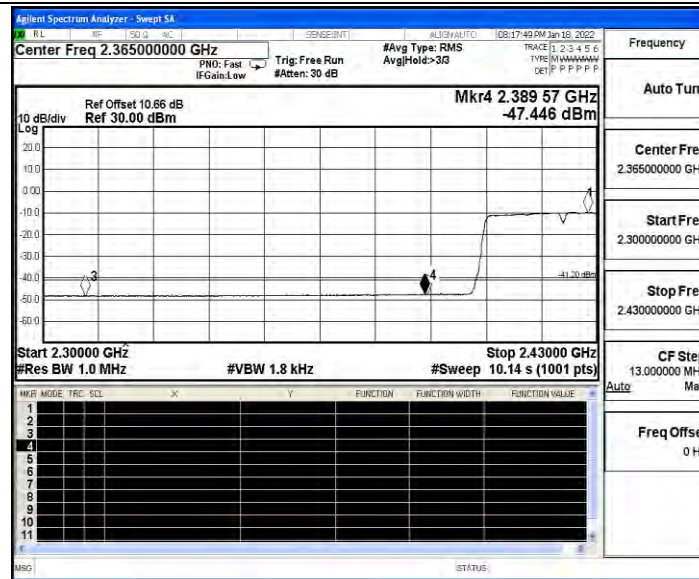
MSG

STATUS

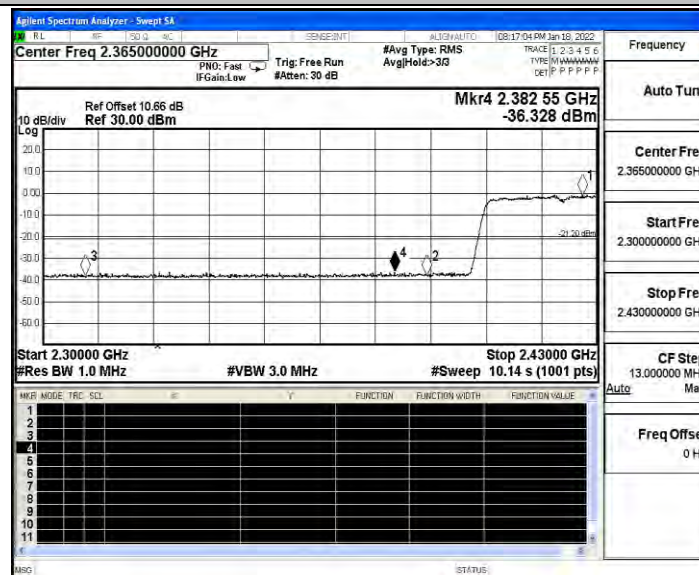
CF Ste 11.000000 MHz

Freq Offset 0 Hz

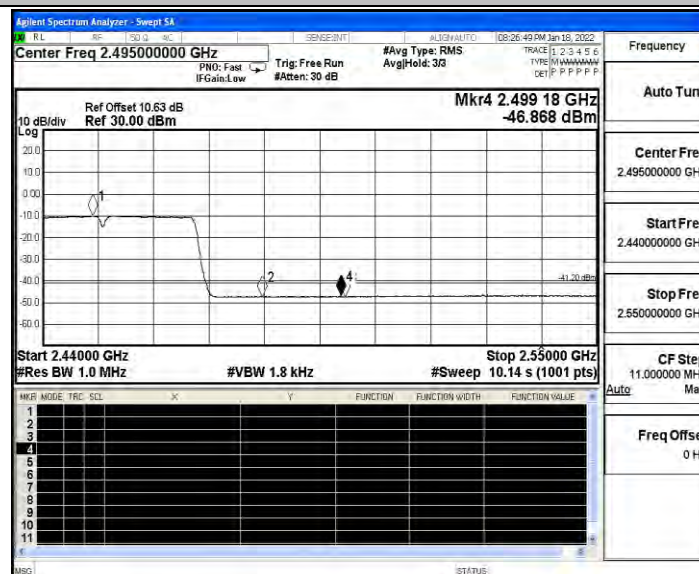
95 / 97



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV





11N40SISO_Ant1_High_2452_Peak

