

Applicant: Shenzhen Hismith Technology Co., Ltd

Case No. : 18220WC201638

EUT: Auxfun Sex Machine

M/N: HS21

Test Power Supply: NA

Ambient Condition: 26 °C, 48 %RH, 101.325 kPa

According Standard: ☒ ; ☐ other:

Test Date: 2020.7.30

Test Engineer: Blue

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.688	2401.652	2402.340	0.5	PASS
		2440	0.724	2439.628	2440.352	0.5	PASS
		2480	0.732	2479.616	2480.348	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power**Test Result Peak**

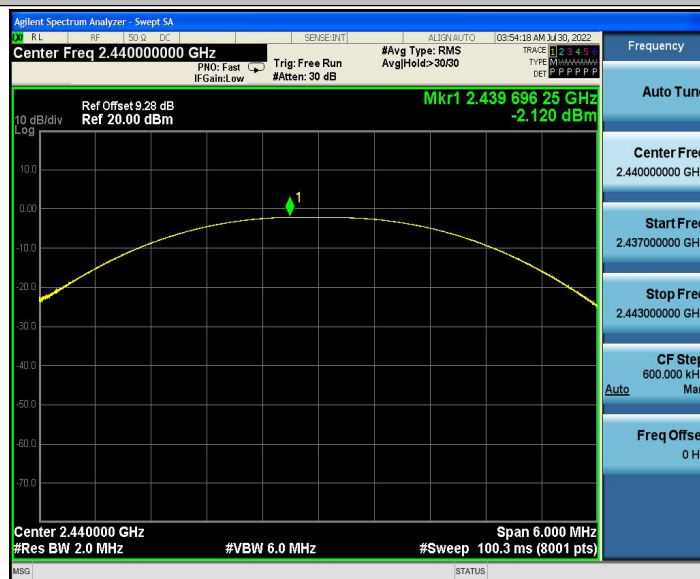
TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.53	≤30	-2.53	≤36	PASS
		2440	-2.12	≤30	-2.12	≤36	PASS
		2480	-4.87	≤30	-4.87	≤36	PASS

Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix D: Maximum power spectral density**Test Result**

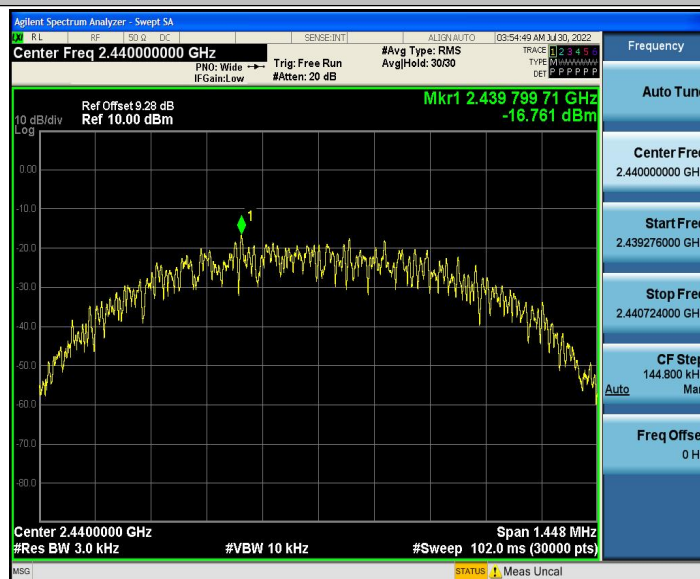
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.59	≤8	PASS
		2440	-16.76	≤8	PASS
		2480	-21.82	≤8	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



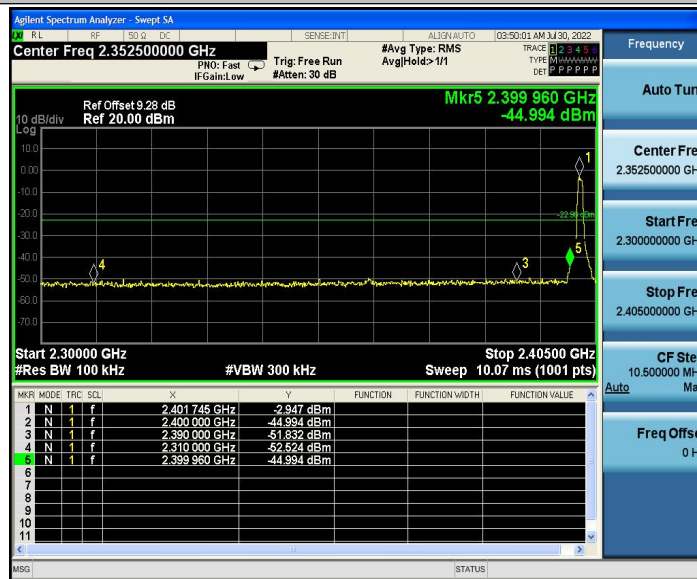
Appendix E: Band edge measurements

Test Result

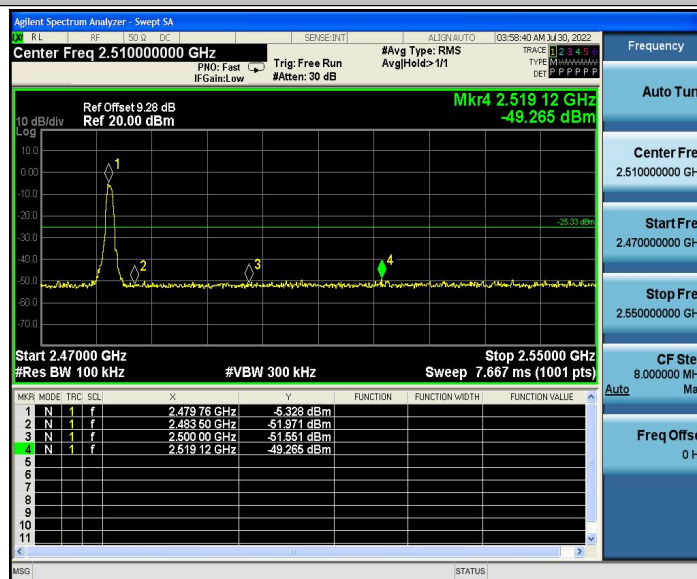
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.96	-44.99	≤ -22.96	PASS
		High	2480	-5.33	-49.27	≤ -25.33	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

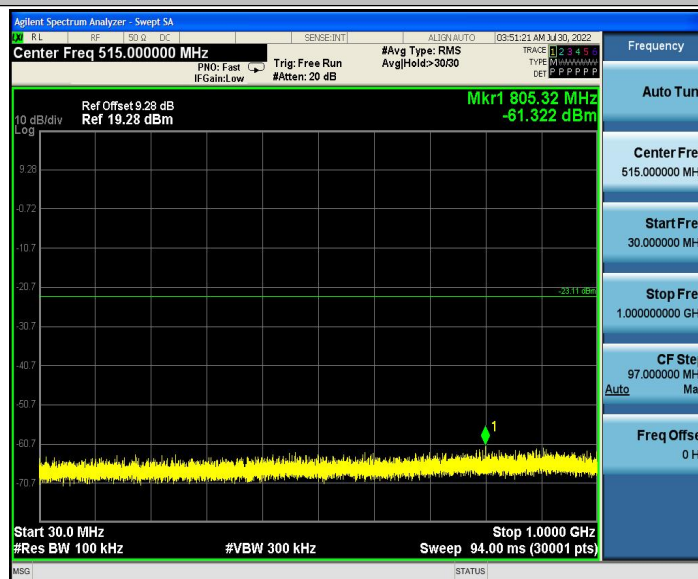
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-61.32	≤-23.11	PASS
			1000~26500	-3.11	-33.55	≤-23.11	PASS
		2440	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-61.7	≤-22.49	PASS
			1000~26500	-2.49	-28.23	≤-22.49	PASS
		2480	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-61.48	≤-25.44	PASS
			1000~26500	-5.44	-31.35	≤-25.44	PASS

Test Graphs

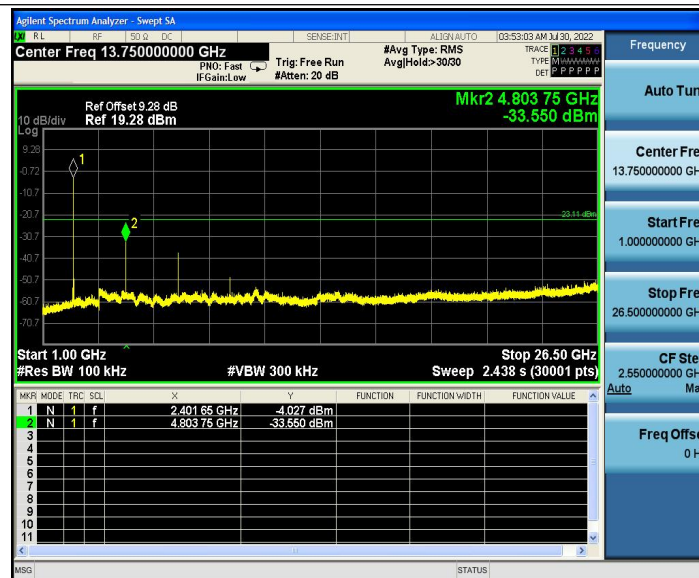
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



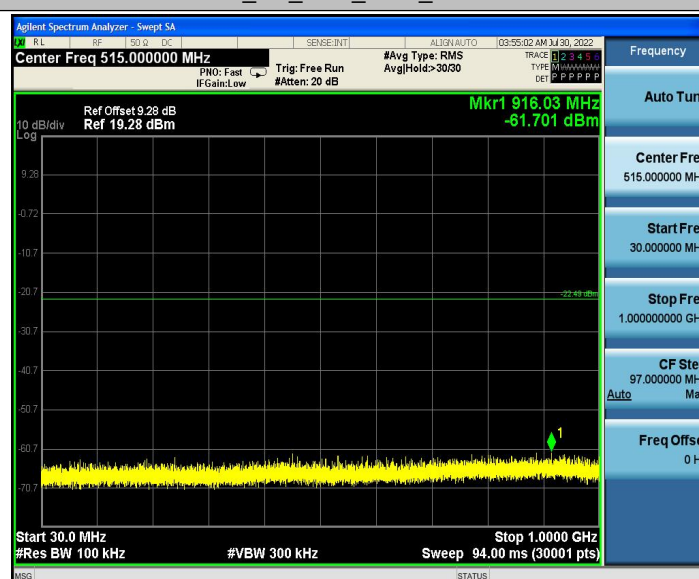
BLE_1M_Ant1_2402_1000~26500



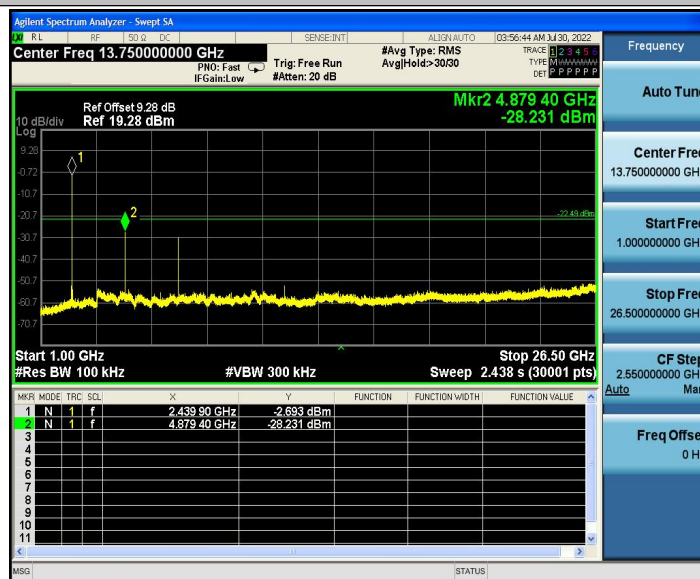
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



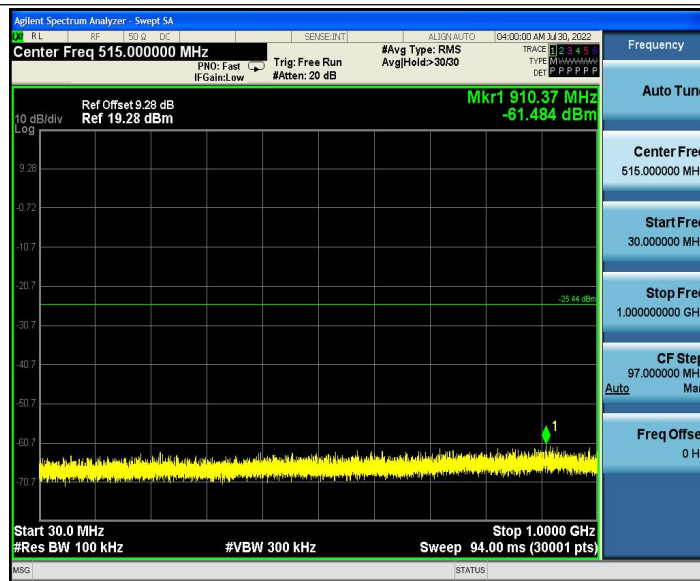
BLE_1M_Ant1_2440_1000~26500



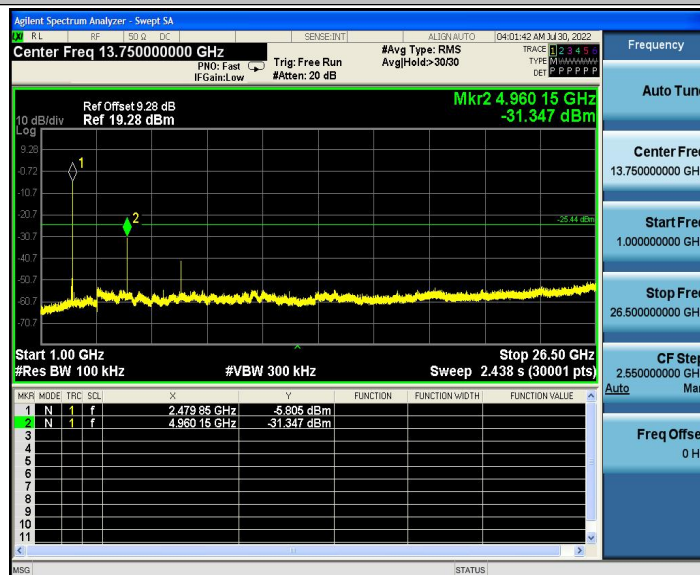
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



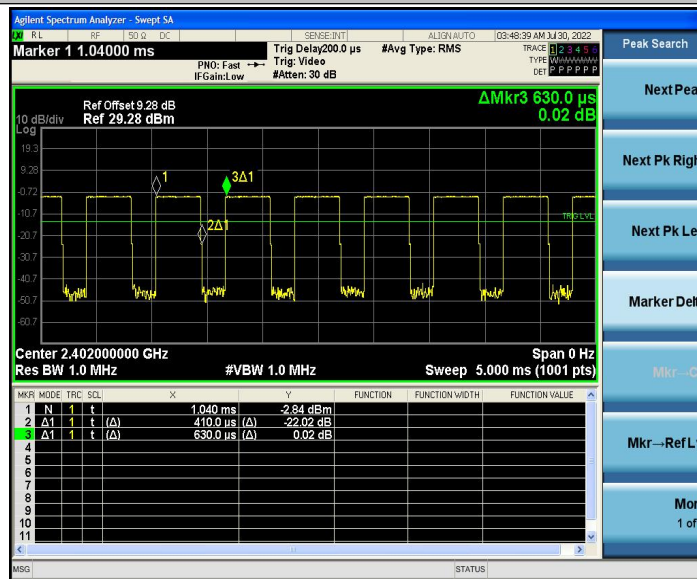
Appendix G: Duty Cycle

Test Result

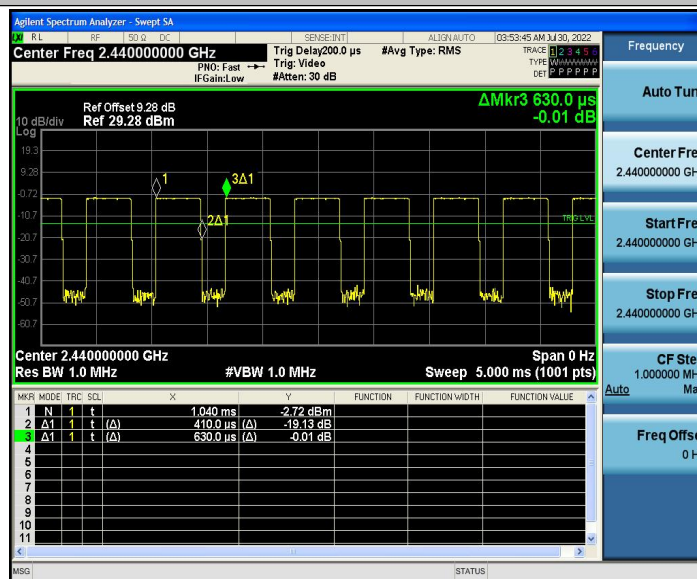
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	PASS
		2440	0.41	0.63	0.6508	65.08	1.87	---	PASS
		2480	0.41	0.63	0.6508	65.08	1.87	---	PASS

Test Graphs

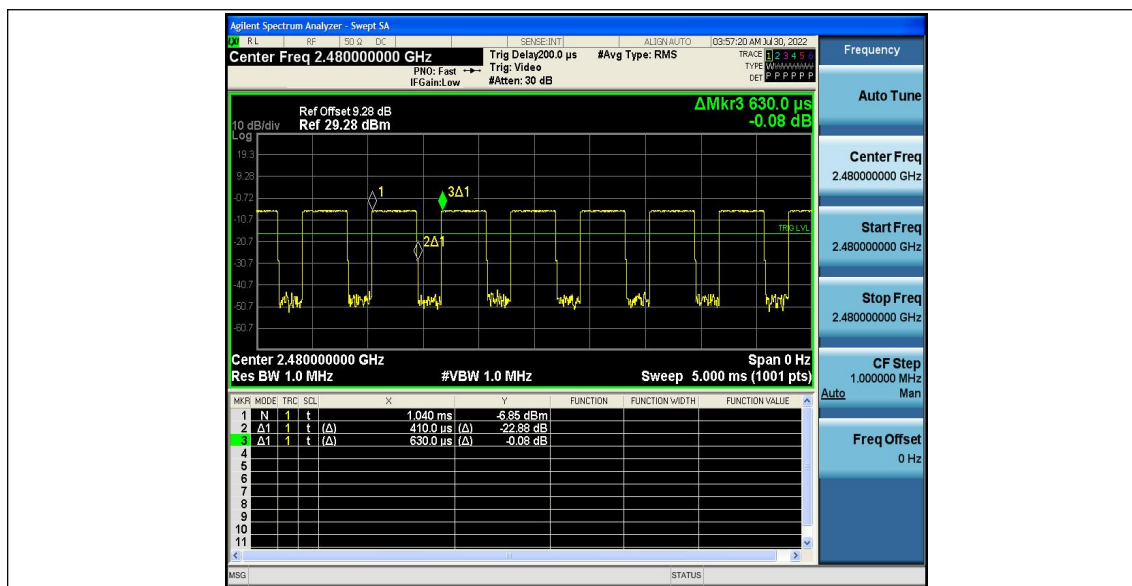
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

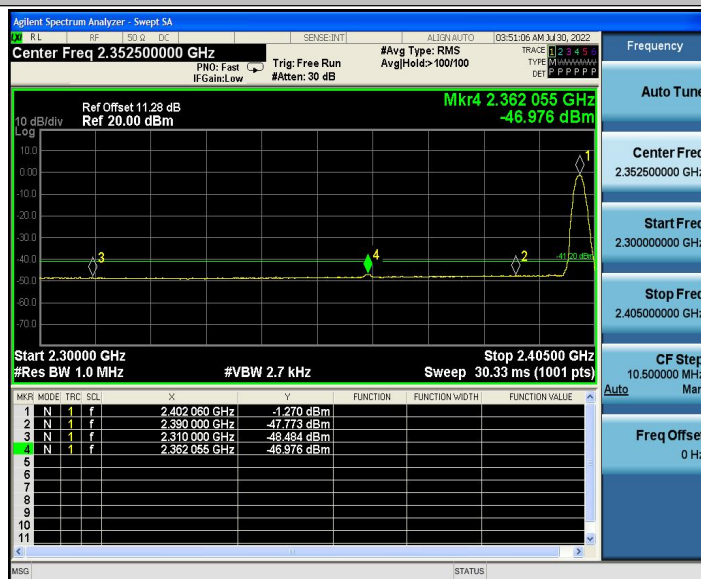
TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.48	≤-41.20	46.72	≤54	PASS
				AV	2362.055	-46.98	≤-41.20	48.22	≤54	PASS
				AV	2390.000	-47.77	≤-41.20	47.43	≤54	PASS
				Peak	2310.000	-40.59	≤-21.20	54.61	≤74	PASS
				Peak	2362.790	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	2390.000	-38.36	≤-21.20	56.84	≤74	PASS
		High	2480	AV	2483.500	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2495.440	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2500.000	-48.19	≤-41.20	47.01	≤54	PASS
				Peak	2483.500	-39.67	≤-21.20	55.53	≤74	PASS
				Peak	2491.360	-37.02	≤-21.20	58.18	≤74	PASS
				Peak	2500.000	-39.34	≤-21.20	55.86	≤74	PASS

Note:

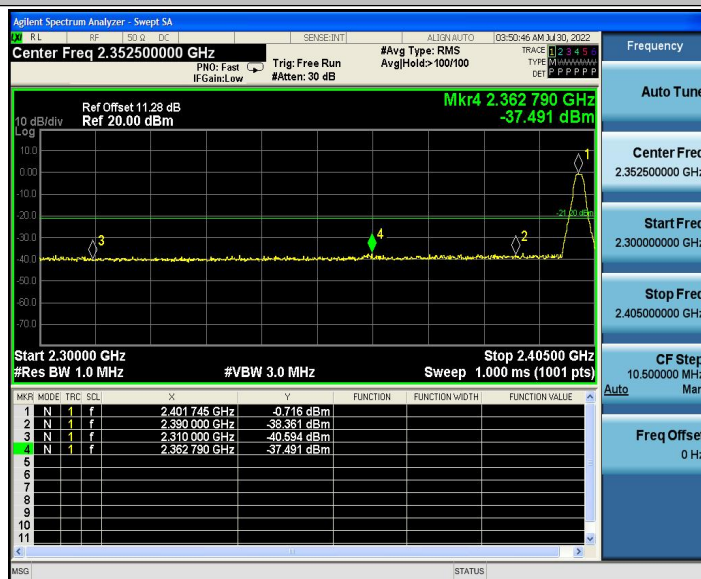
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

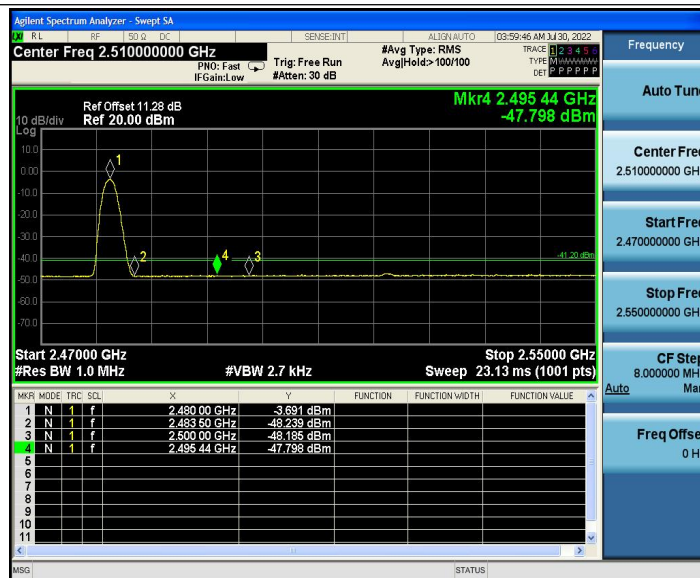
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

