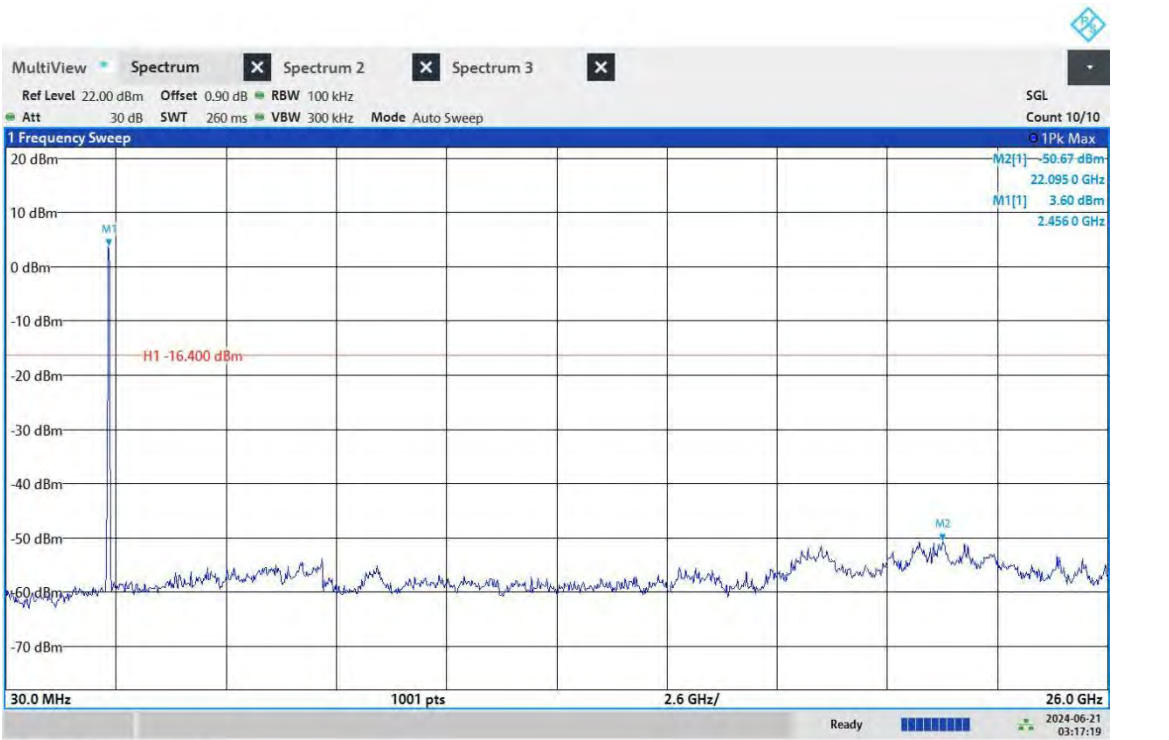




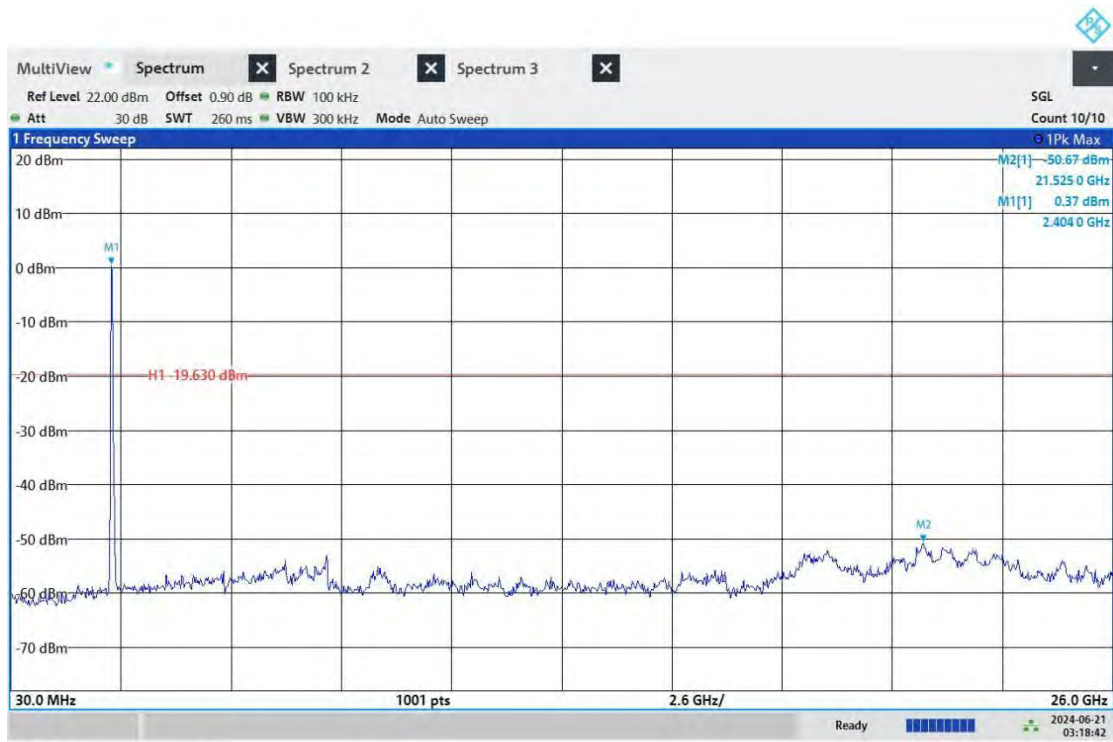
03:16:46 AM 06/21/2024

11N20_Ant0_2462_30~260000



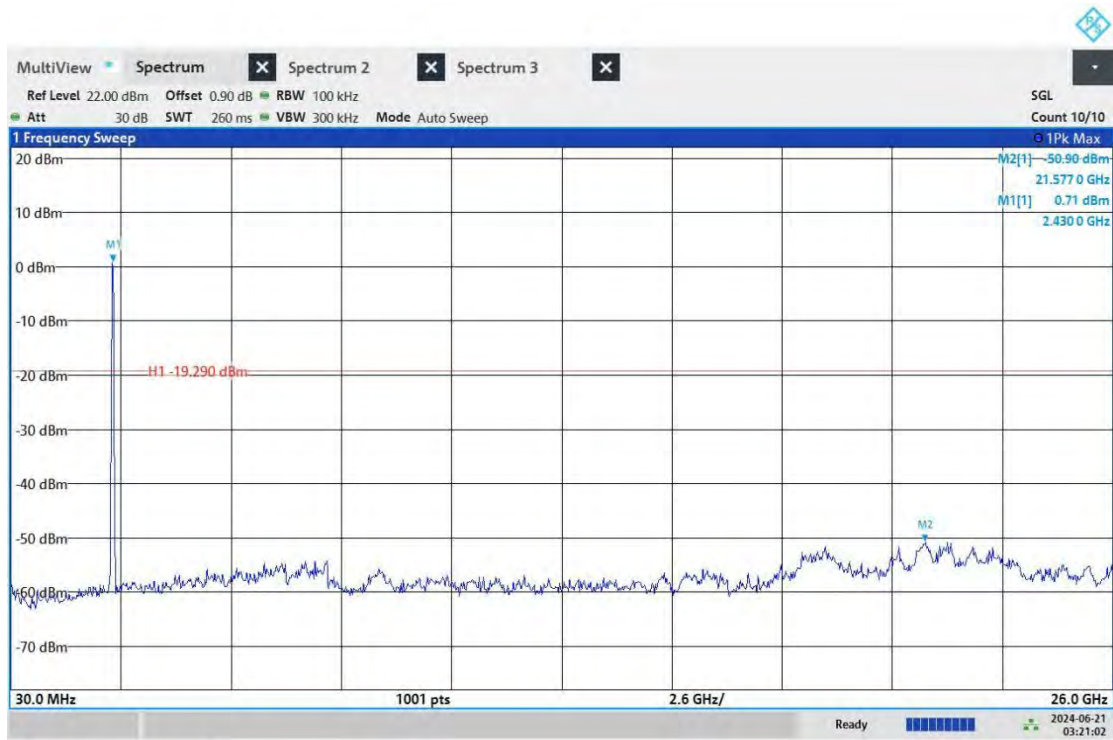
03:17:19 AM 06/21/2024

11N40_Ant0_2422_30~260000



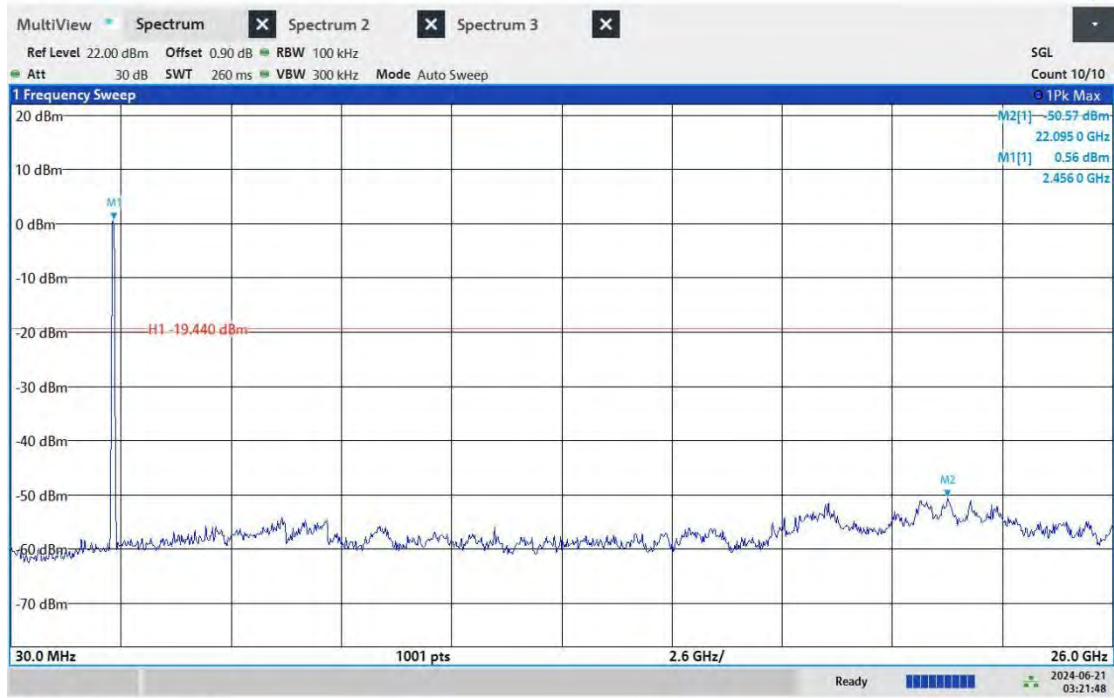
03:18:43 AM 06/21/2024

11N40_Ant0_2437_30~260000



03:21:02 AM 06/21/2024

11N40_Ant0_2452_30~260000



03:21:49 AM 06/21/2024

20M

RBW 100.000 kHz

VBW 300.000 kHz

40M

RBW 100.000 kHz

VBW 300.000 kHz



BUREAU VERITAS Test Report No.: PSU-NQN2405090215RF06

DUTY CYCLE

TEST RESULT

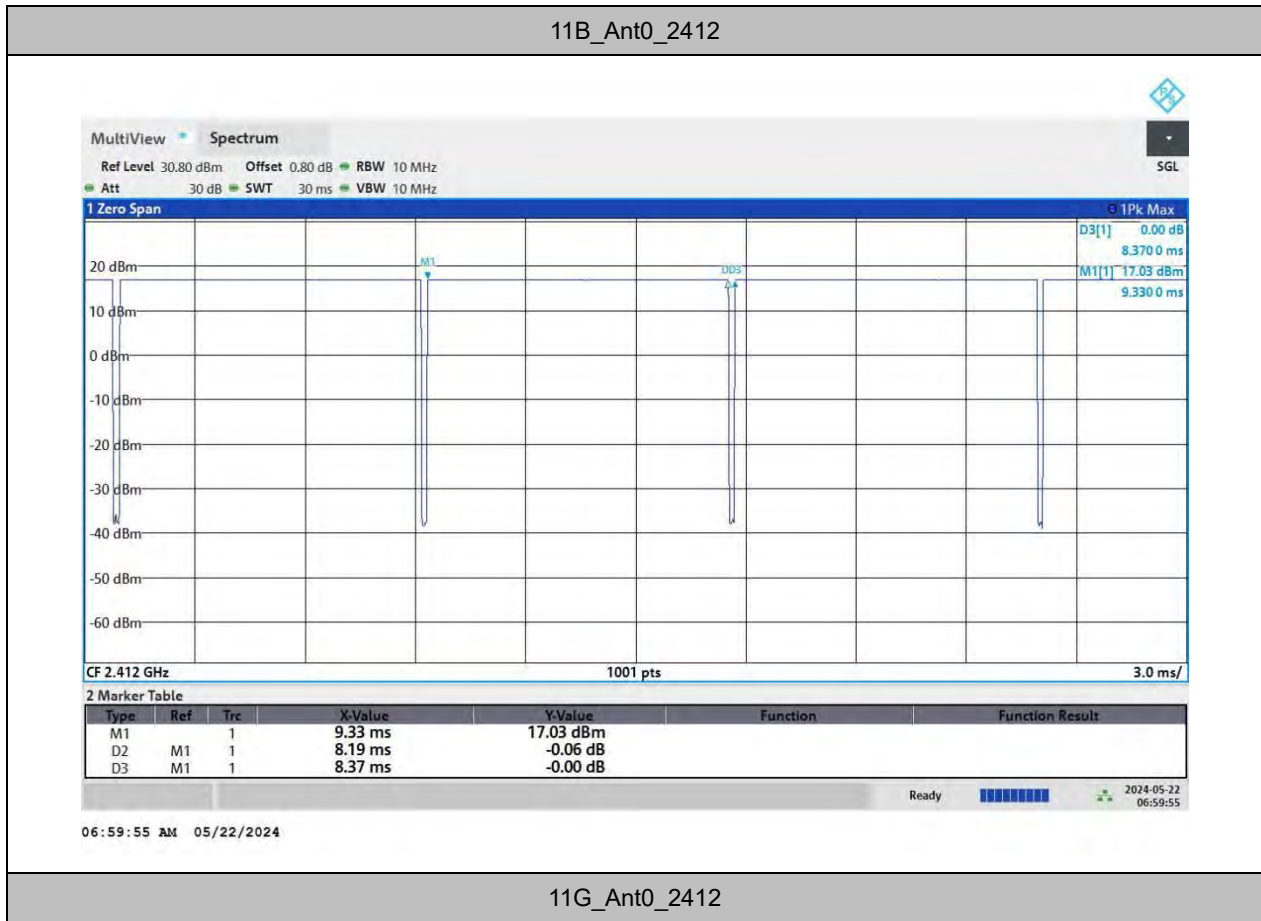
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	dutycycle factor
11B	Ant0	2412	8.1900	8.3700	97.85%	0.09
11G	Ant0	2412	1.3620	1.5420	88.33%	0.54
11N20	Ant0	2412	1.1520	1.1970	96.24%	0.17
11N40	Ant0	2422	0.5735	0.7810	73.43%	1.34

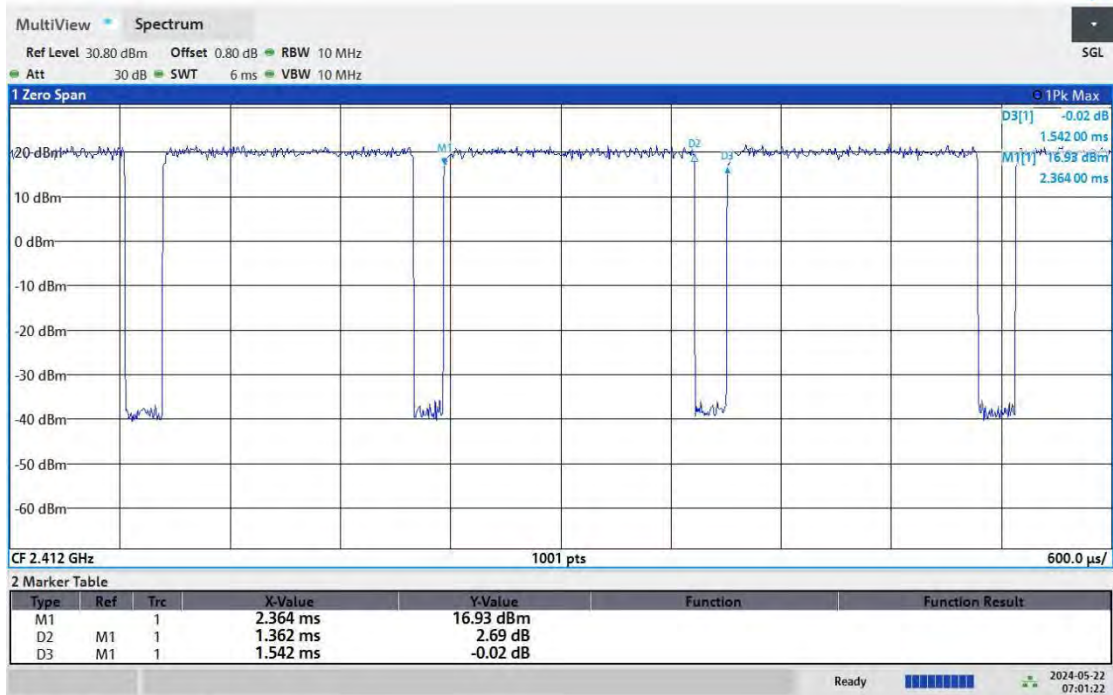


BUREAU VERITAS

Test Report No.: PSU-NQN2405090215RF06

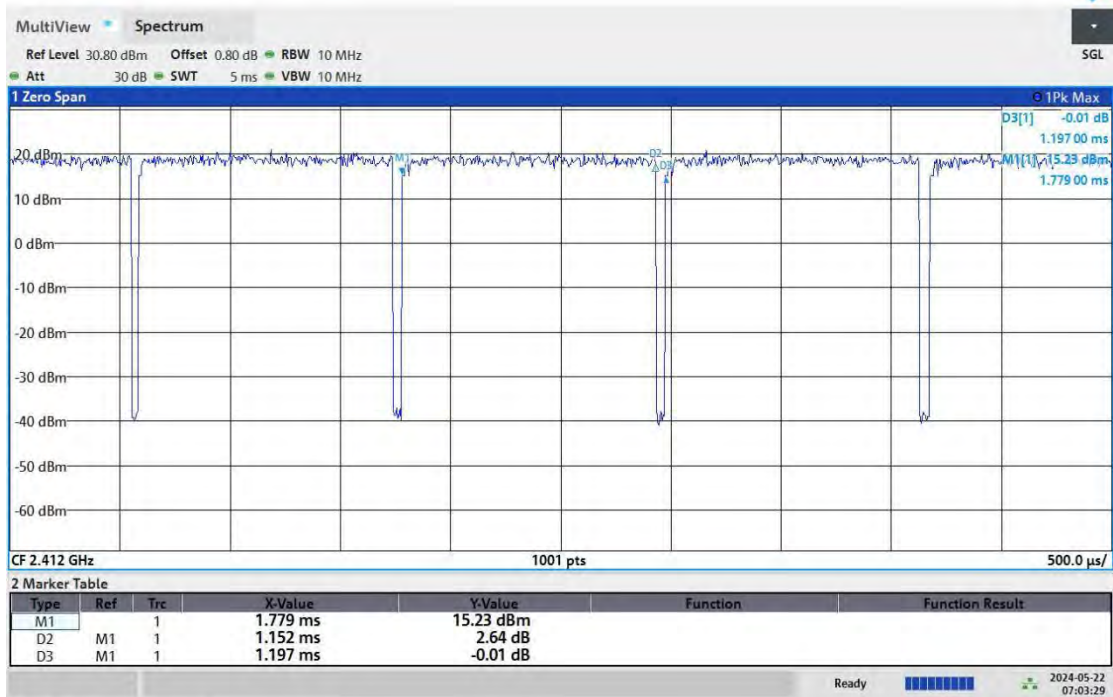
TEST GRAPHS





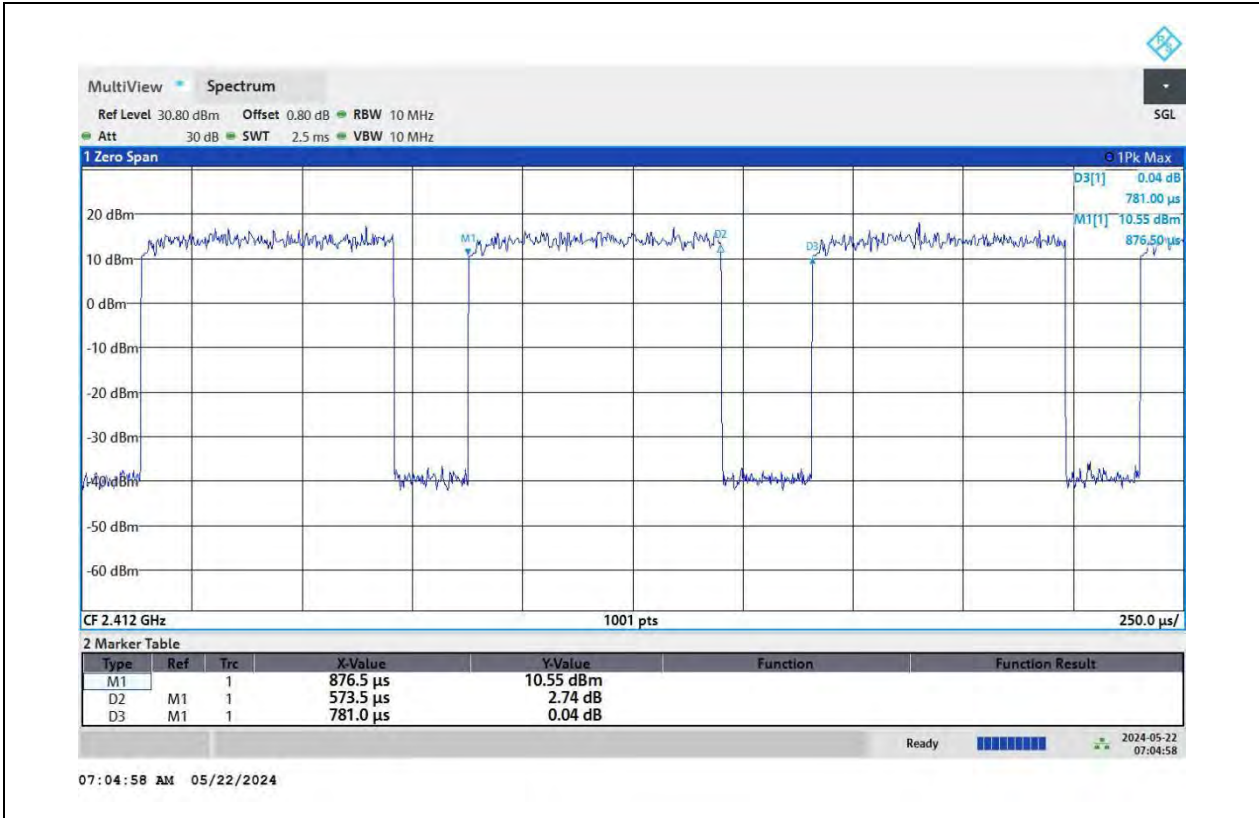
07:01:23 AM 05/22/2024

11N20_Ant0_2412



07:03:30 AM 05/22/2024

11N40_Ant0_2422





7 APPENDIX 2 BLE

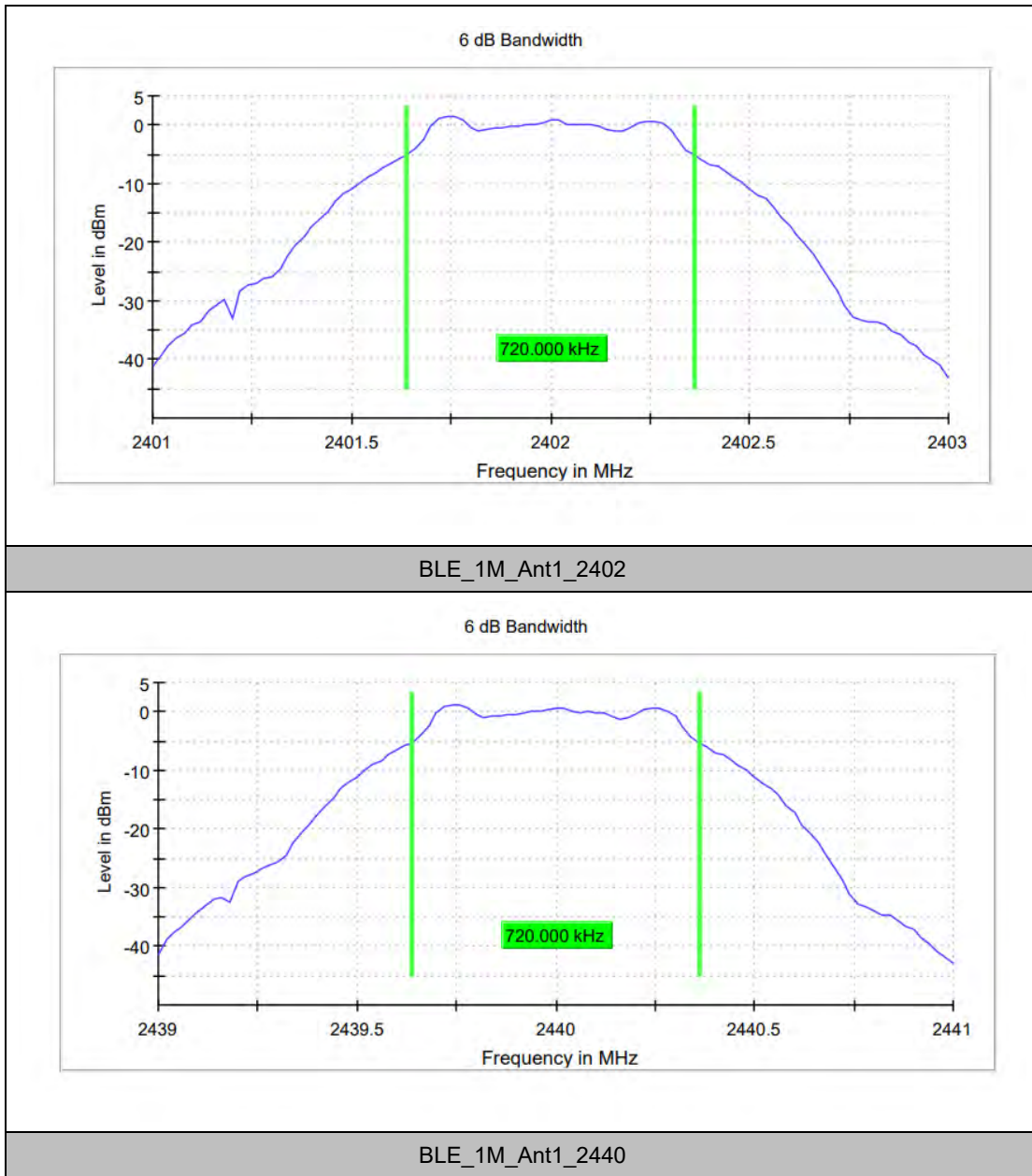
DTS BANDWIDTH

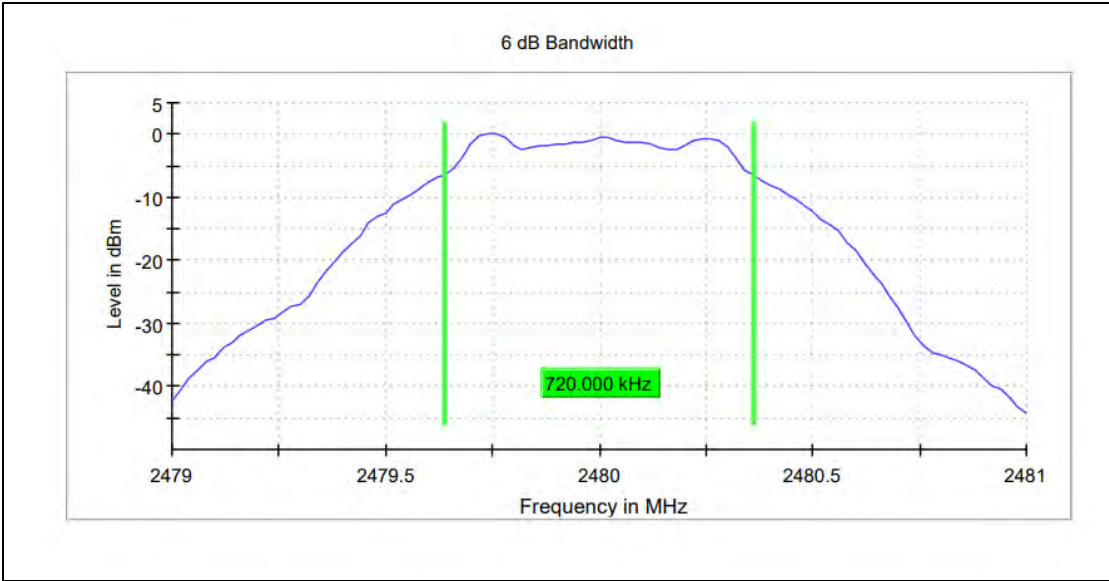
TEST RESULT

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.720	2401.640	2402.360	0.5	PASS
		2440	0.720	2439.640	2440.360	0.5	PASS
		2480	0.720	2479.640	2480.360	0.5	PASS
BLE_2M	Ant1	2404	1.280	2403.360	2404.640	0.5	PASS
		2440	1.280	2439.360	2440.640	0.5	PASS
		2478	1.280	2477.360	2478.640	0.5	PASS
BLE-S2	Ant1	2402	0.720	2401.640	2402.360	0.5	PASS
		2440	0.700	2439.660	2440.360	0.5	PASS
		2480	0.700	2479.660	2480.360	0.5	PASS
BLE_S8	Ant1	2402	0.660	2401.660	2402.320	0.5	PASS
		2440	0.660	2439.660	2440.320	0.5	PASS
		2480	0.640	2479.680	2480.320	0.5	PASS

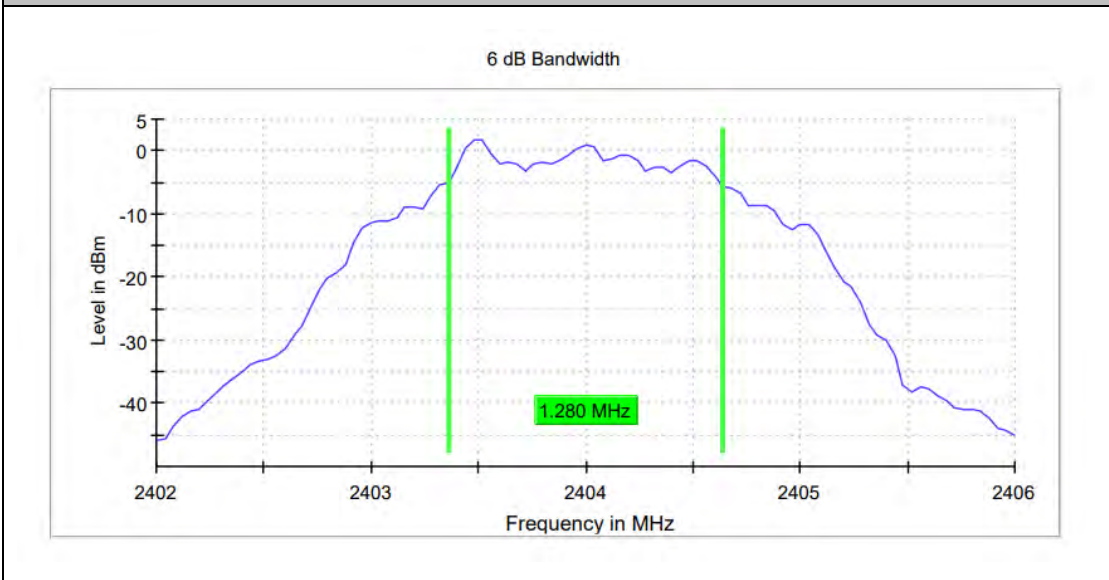


TEST GRAPHS





BLE_1M_Ant1_2480

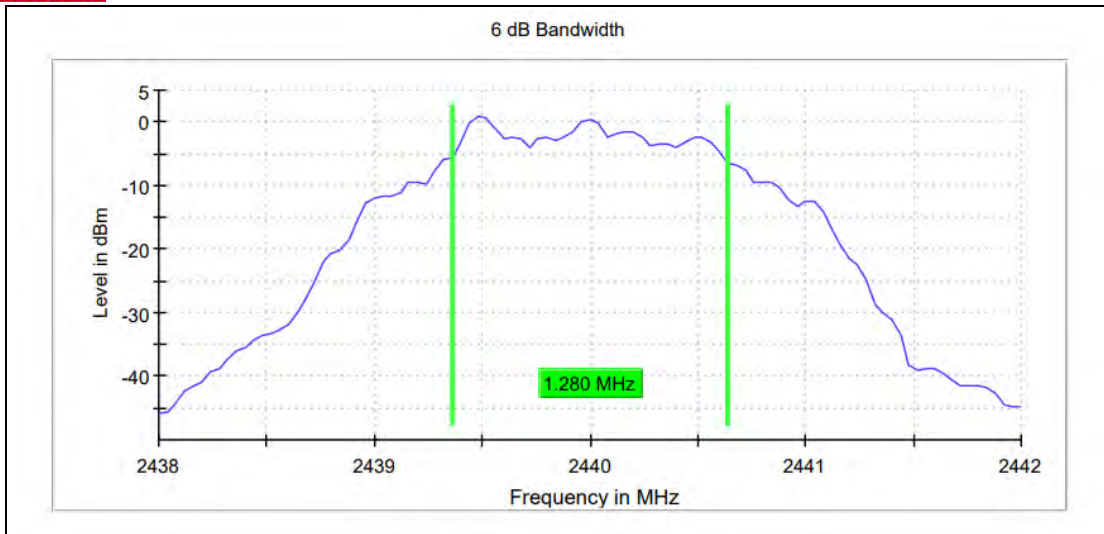


BLE_2M_Ant1_2404

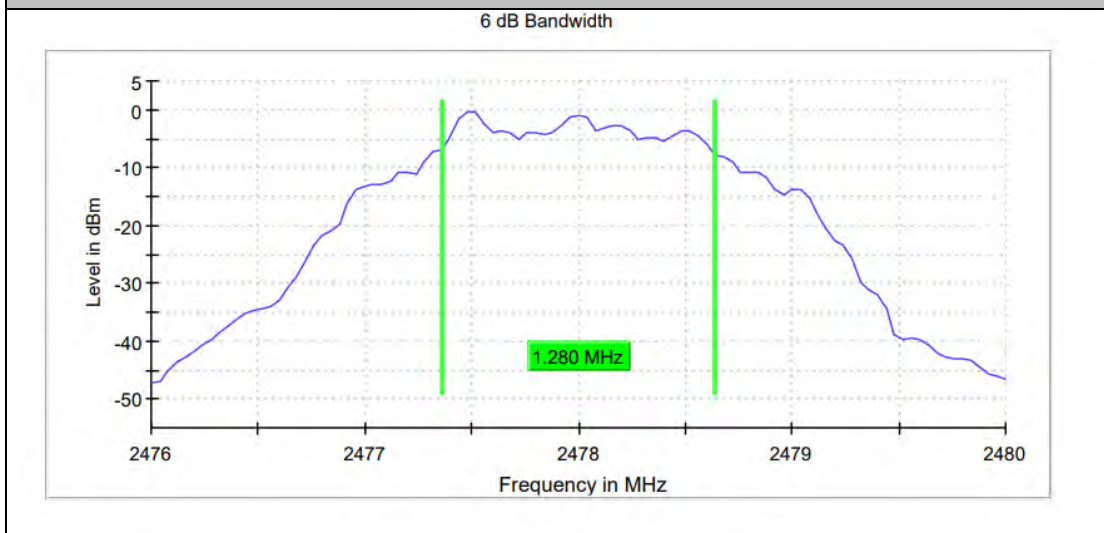


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VERITAS

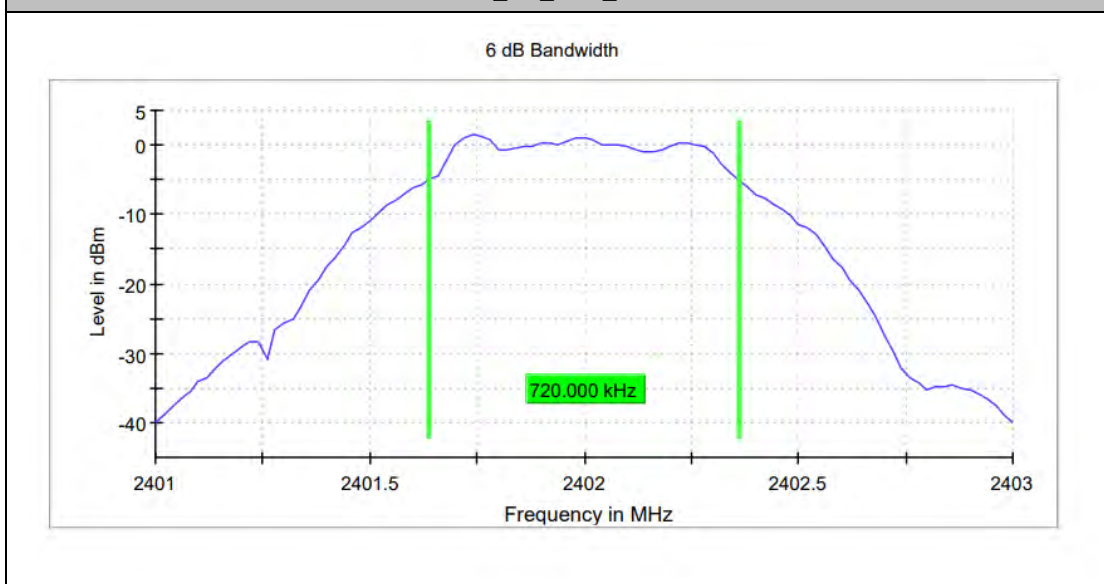
Test Report No.: PSU-NQN2405090215RF06



BLE_2M_Ant1_2440



BLE_2M_Ant1_2478



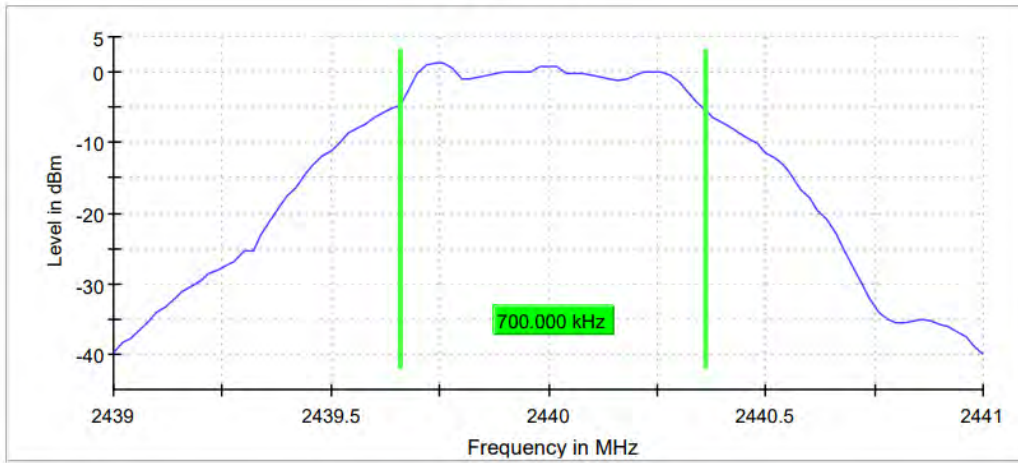


**BUREAU
VERITAS**

Test Report No.: PSU-NQN2405090215RF06

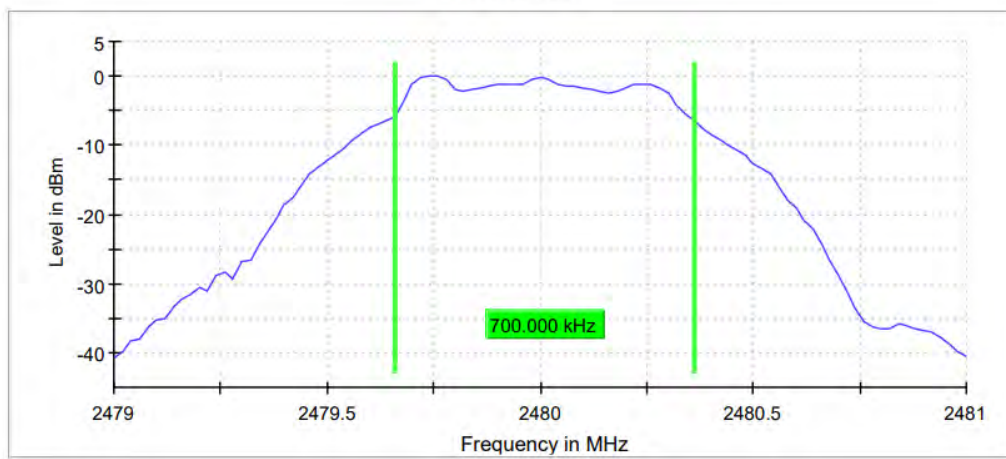
BLE_S2_Ant1_2402

6 dB Bandwidth

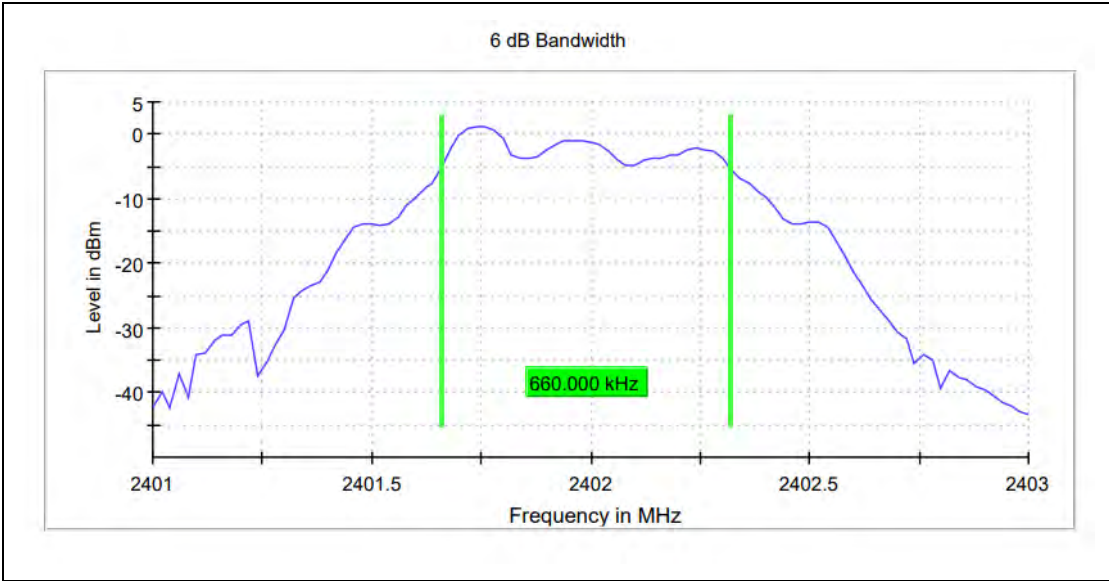


BLE_S2_Ant1_2440

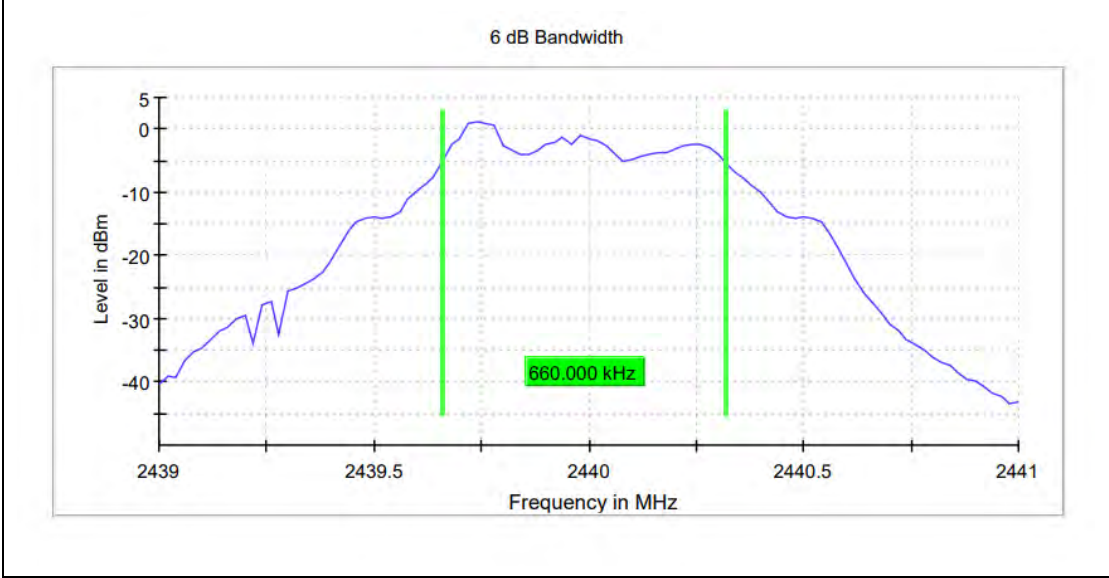
6 dB Bandwidth



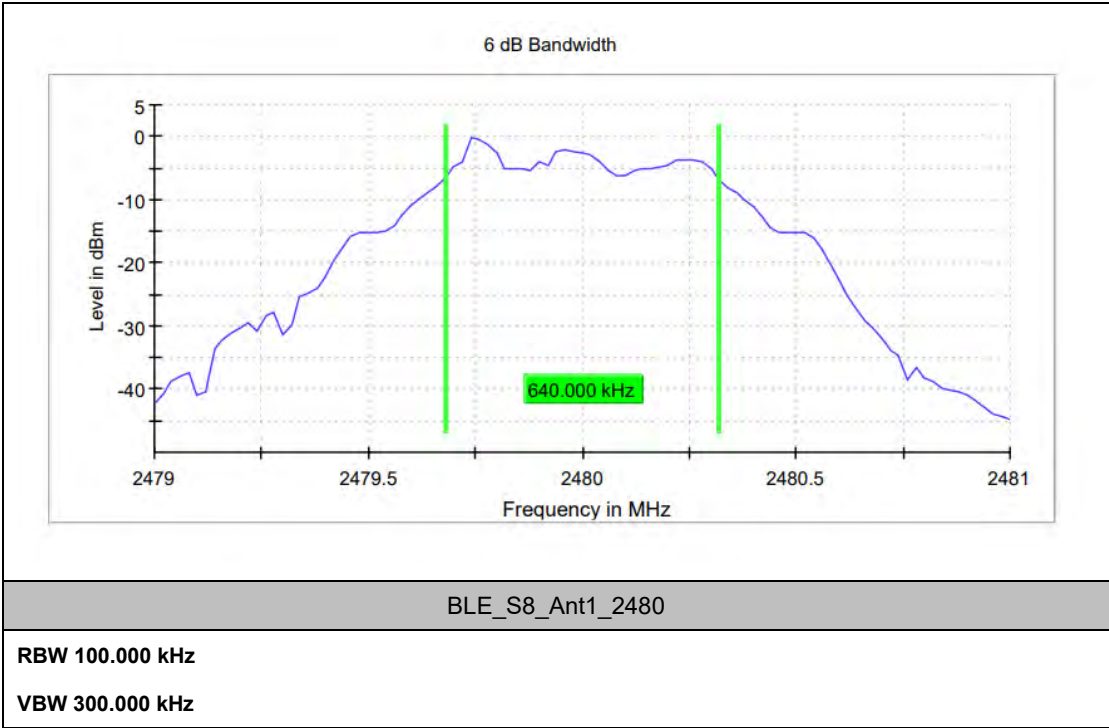
BLE_S2_Ant1_2480



BLE_S8_Ant1_2402



BLE_S8_Ant1_2440



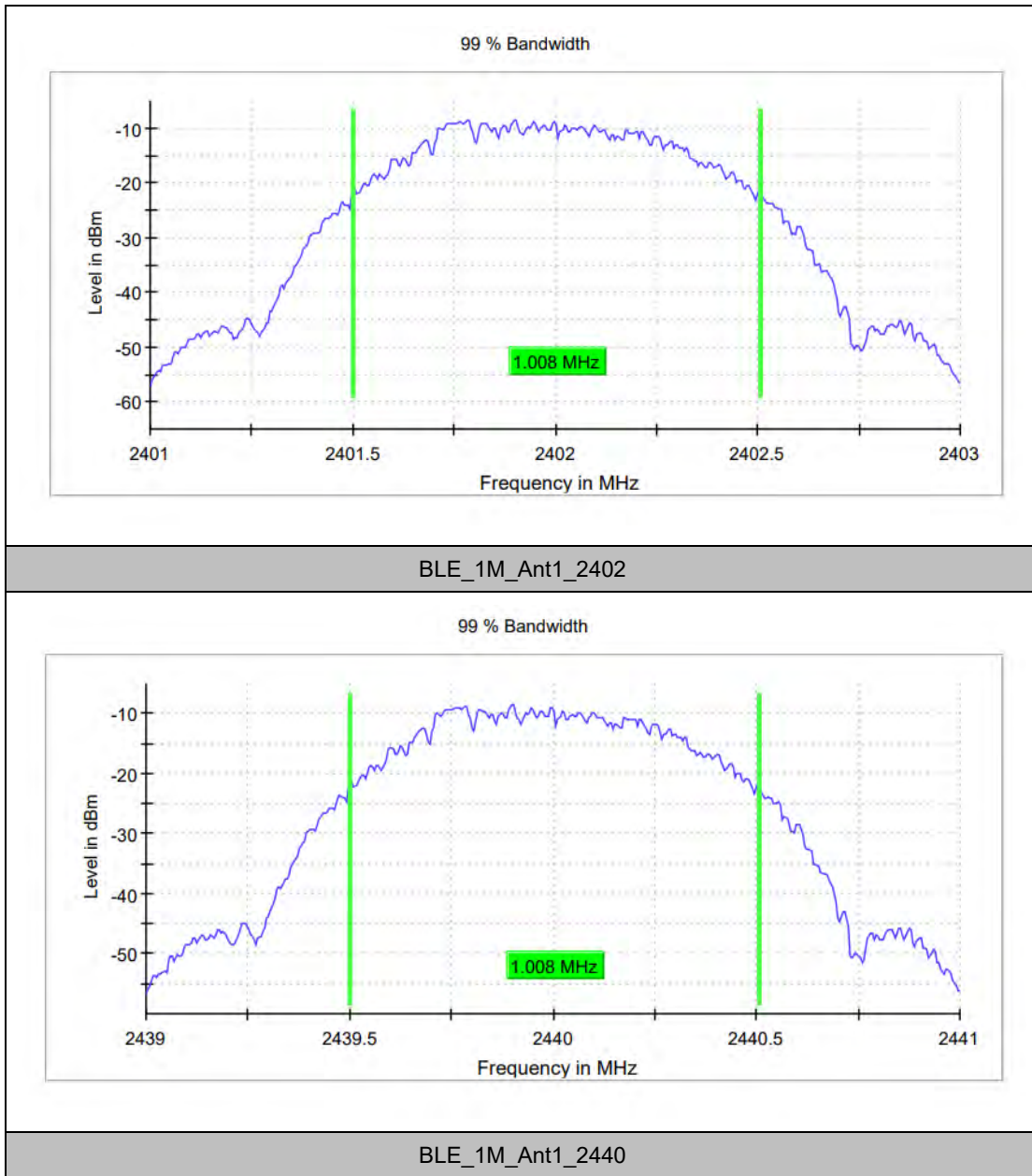


OCCUPIED CHANNEL BANDWIDTH TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.008	2401.501	2402.509	2400-24835	PASS
		2440	1.008	2439.501	2440.509	2400-24835	PASS
		2480	1.008	2479.501	2480.509	2400-24835	PASS
BLE_2M	Ant1	2404	2.005	2403.013	2405.018	2400-24835	PASS
		2440	2.015	2439.003	2441.018	2400-24835	PASS
		2478	2.015	2477.003	2479.018	2400-24835	PASS
BLE-S2	Ant1	2402	0.997	2401.501	2402.498	2400-24835	PASS
		2440	1.003	2439.496	2440.499	2400-24835	PASS
		2480	1.003	2479.496	2480.499	2400-24835	PASS
BLE_S8	Ant1	2402	1.033	2401.481	2402.514	2400-24835	PASS
		2440	1.033	2439.481	2440.514	2400-24835	PASS
		2480	1.033	2479.481	2480.514	2400-24835	PASS



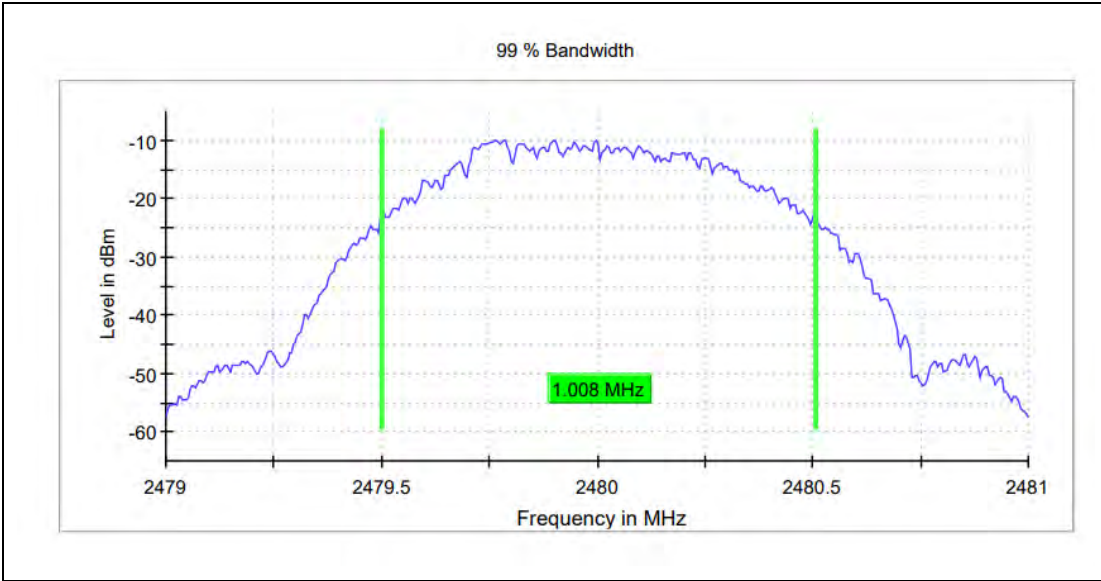
TEST GRAPHS



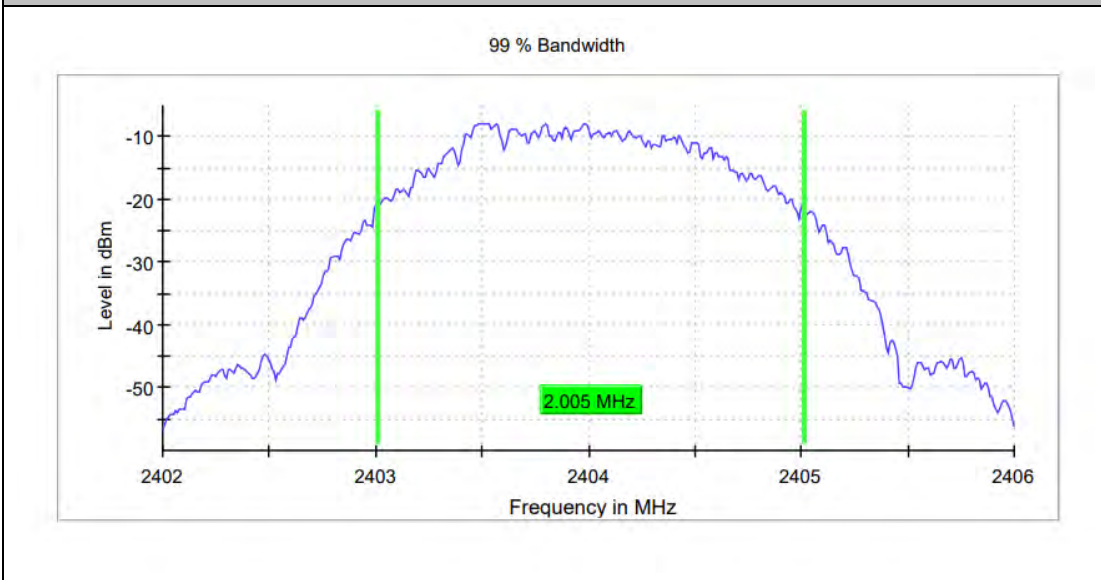


BUREAU
VERITAS

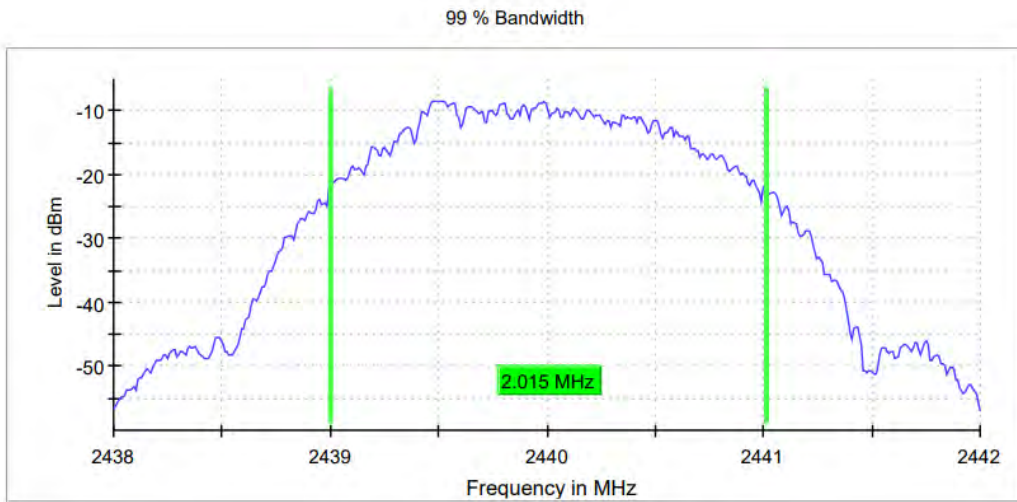
Test Report No.: PSU-NQN2405090215RF06



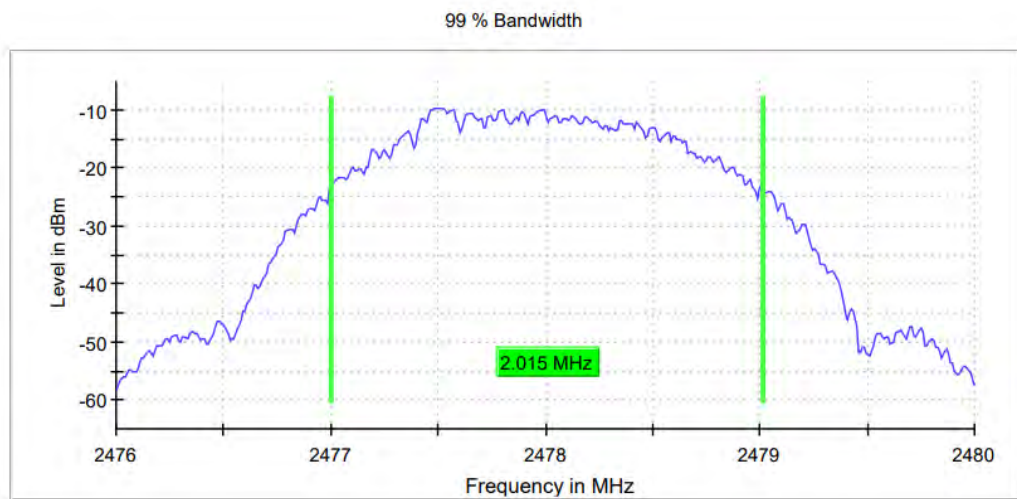
BLE_1M_Ant1_2480



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440

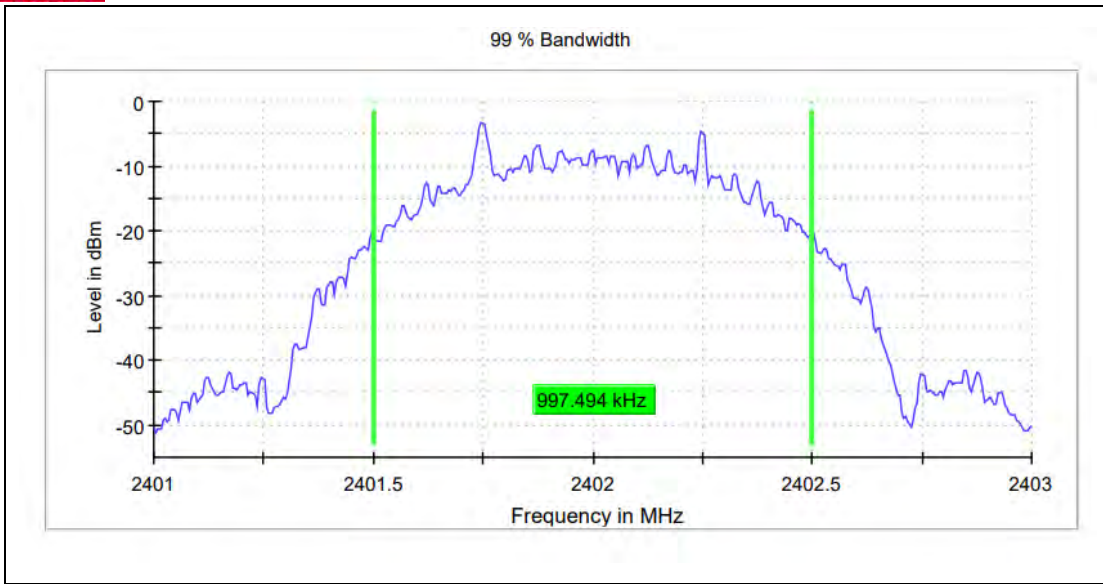


BLE_2M_Ant1_2478

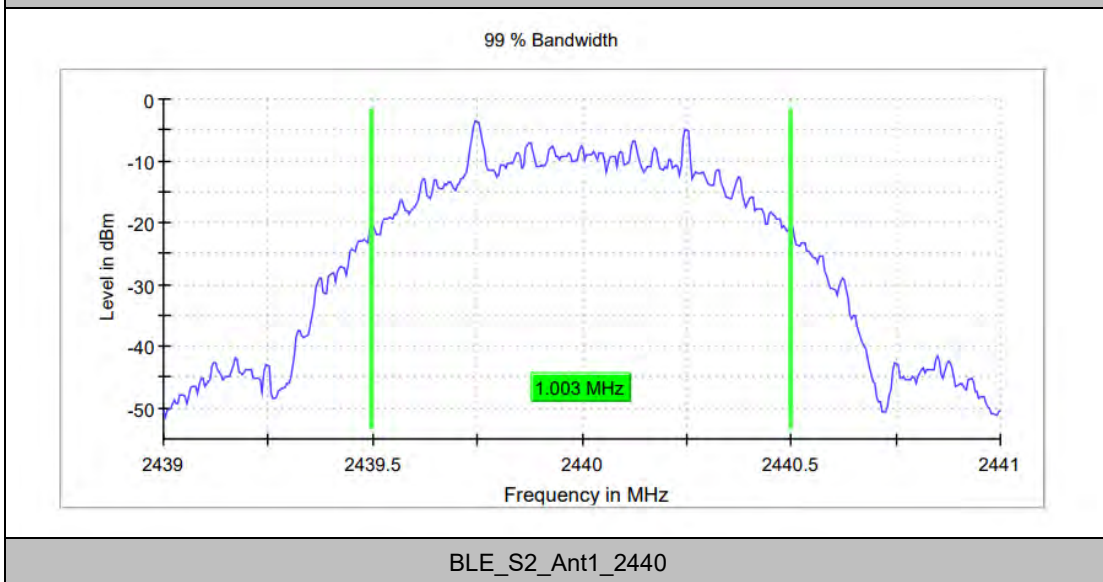


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VERITAS**

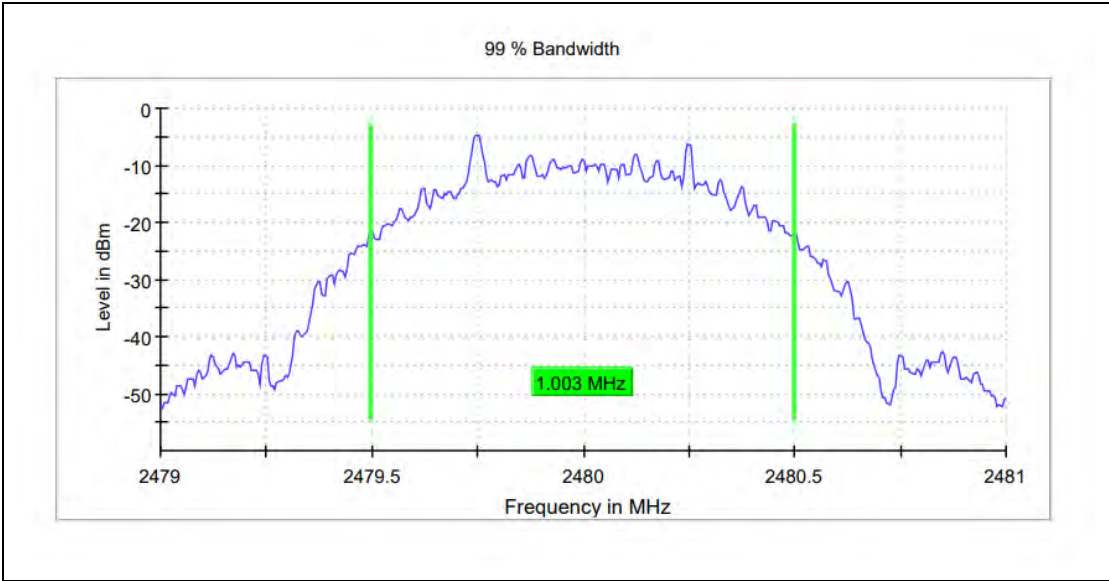
Test Report No.: PSU-NQN2405090215RF06



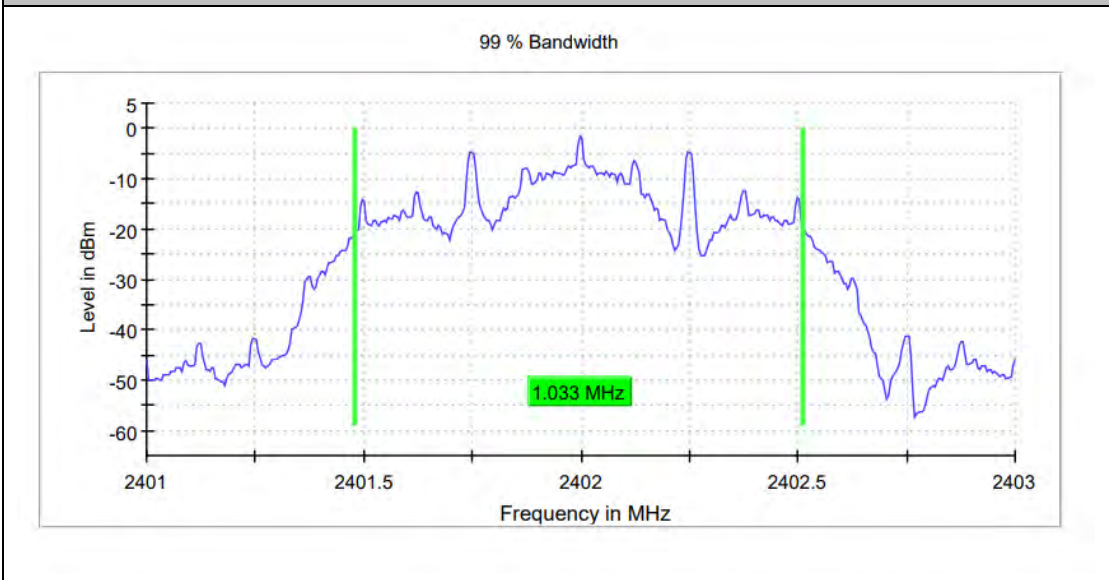
BLE_S2_Ant1_2402



BLE_S2_Ant1_2440



BLE_S2_Ant1_2480

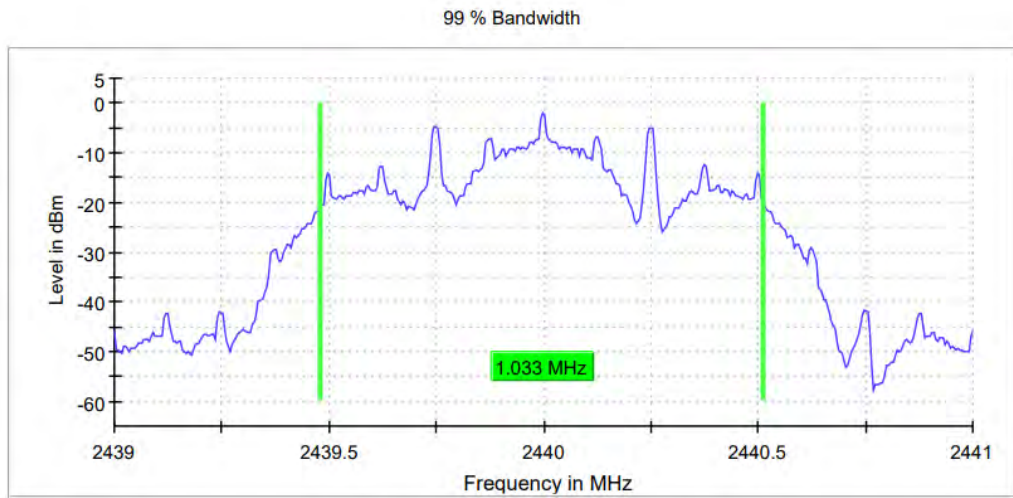


BLE_S8_Ant1_2402

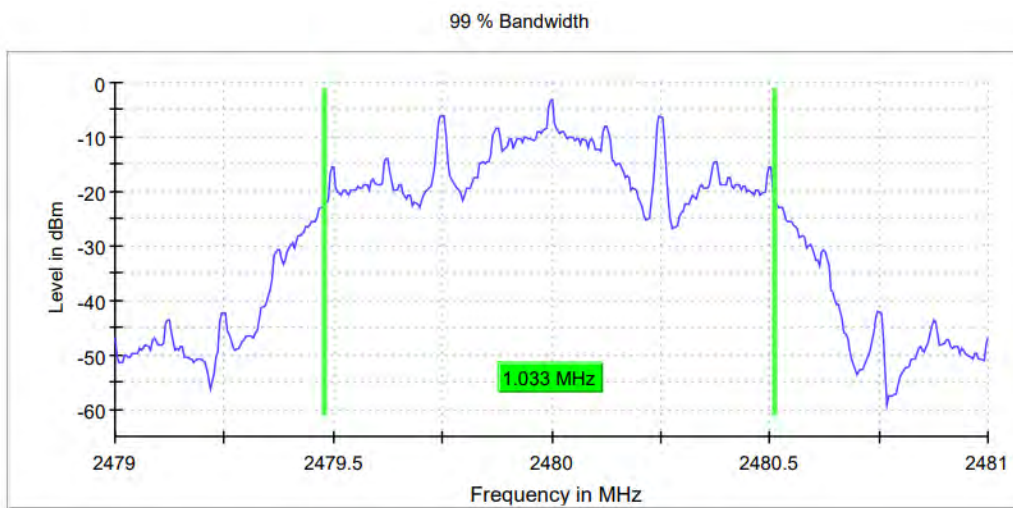


**BUREAU
VERITAS**

Test Report No.: PSU-NQN2405090215RF06



BLE_S8_Ant1_2440



BLE_S8_Ant1_2480

1M

RBW 10.000 kHz

VBW 30.000 kHz

2M

RBW 20.000 kHz

VBW 100.000 kHz



MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	1.18	2.05	1.60	≤30	PASS	Default
		2440	0.97	1.99	1.58	≤30	PASS	Default
		2480	-0.08	0.64	1.16	≤30	PASS	Default
BLE_2M	Ant1	2402	1.76	2.52	1.79	≤30	PASS	Default
		2440	0.91	1.87	1.54	≤30	PASS	Default
		2480	-0.23	0.52	1.13	≤30	PASS	Default
BLE_125k	Ant1	2402	1.33	1.99	1.58	≤30	PASS	Default
		2440	0.92	1.78	1.51	≤30	PASS	Default
		2480	-0.15	0.49	1.12	≤30	PASS	Default
BLE_500K	Ant1	2402	1.34	2.09	1.62	≤30	PASS	Default
		2440	0.92	1.93	1.56	≤30	PASS	Default
		2480	-0.13	0.63	1.16	≤30	PASS	Default



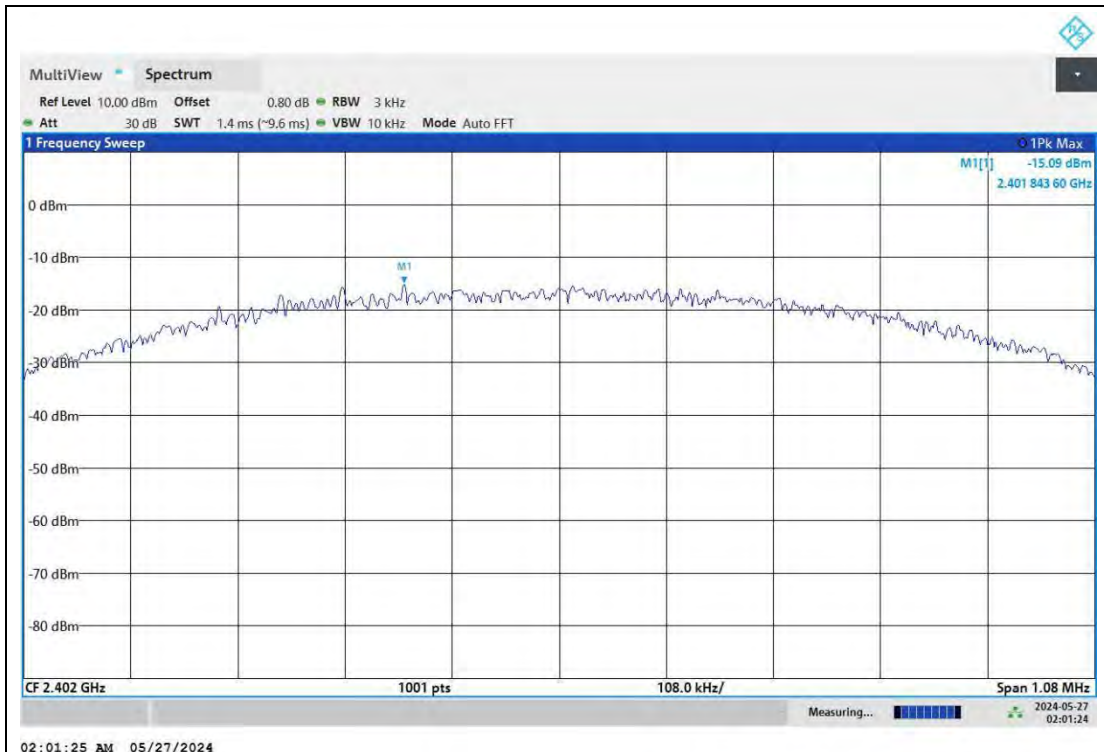
MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

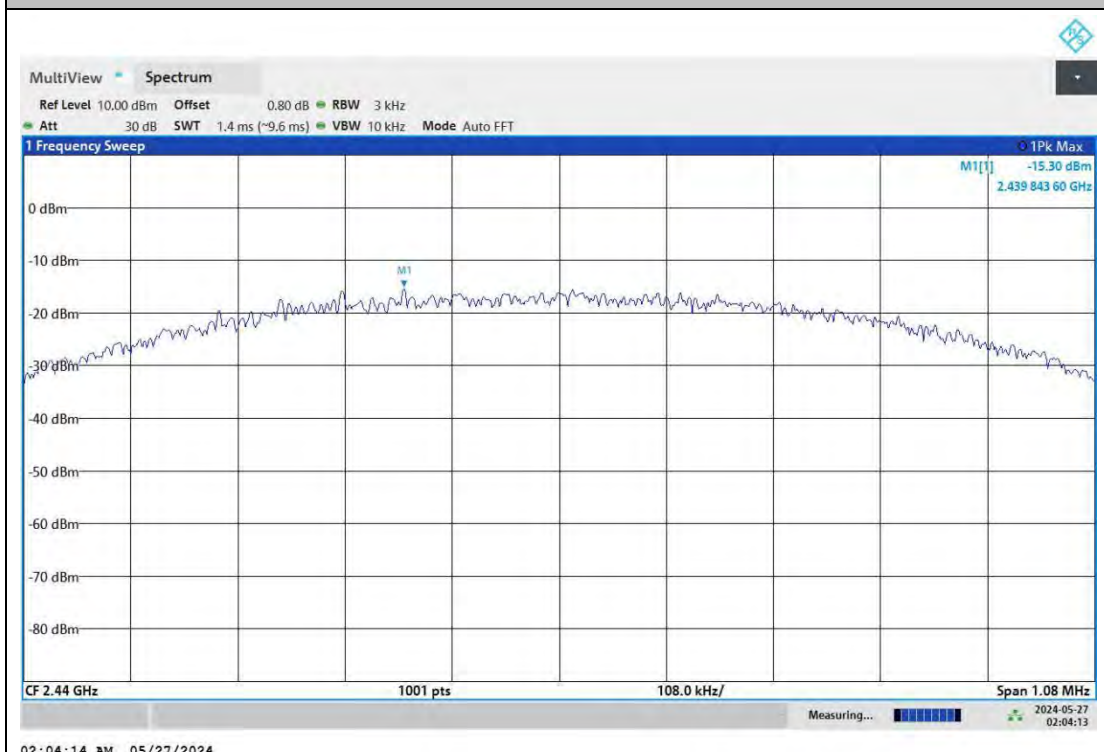
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.09	≤8	PASS
		2440	-15.30	≤8	PASS
		2480	-16.29	≤8	PASS
BLE_2M	Ant1	2402	-17.82	≤8	PASS
		2440	-18.46	≤8	PASS
		2480	-19.53	≤8	PASS
BLE_S2	Ant1	2402	-7.63	≤8	PASS
		2440	-5.94	≤8	PASS
		2480	-8.39	≤8	PASS
BLE_S8	Ant1	2402	-4.95	≤8	PASS
		2440	-5.16	≤8	PASS
		2480	-6.14	≤8	PASS



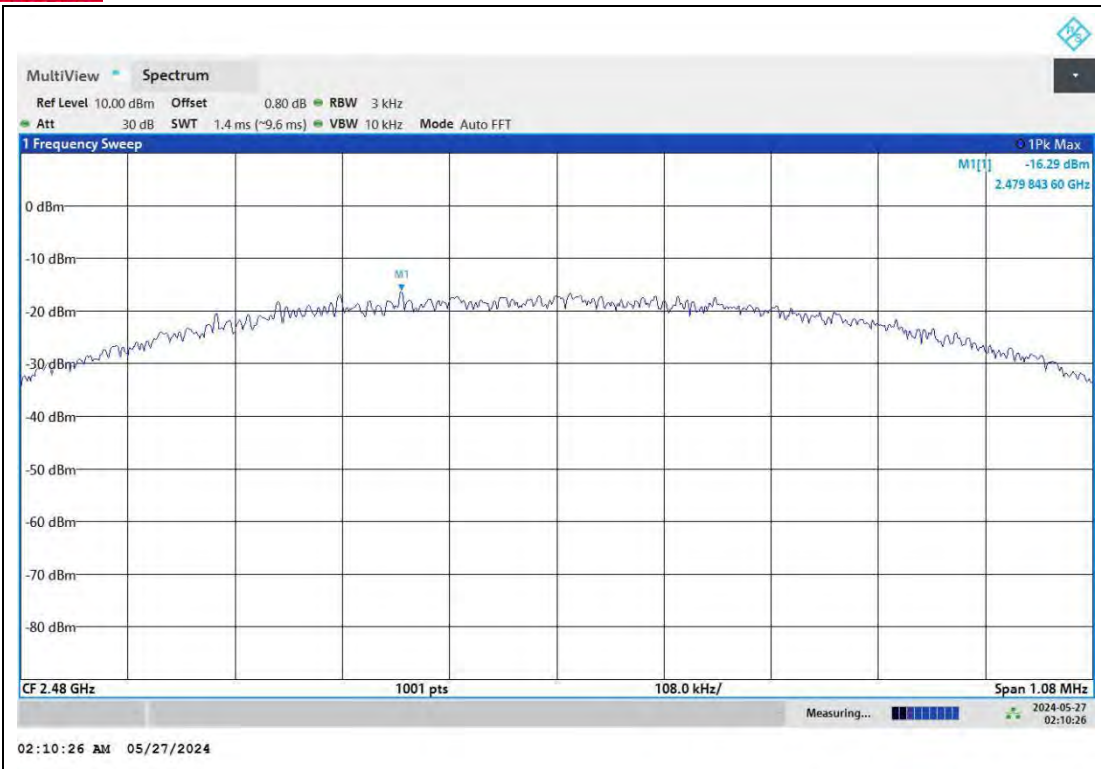
TEST GRAPHS



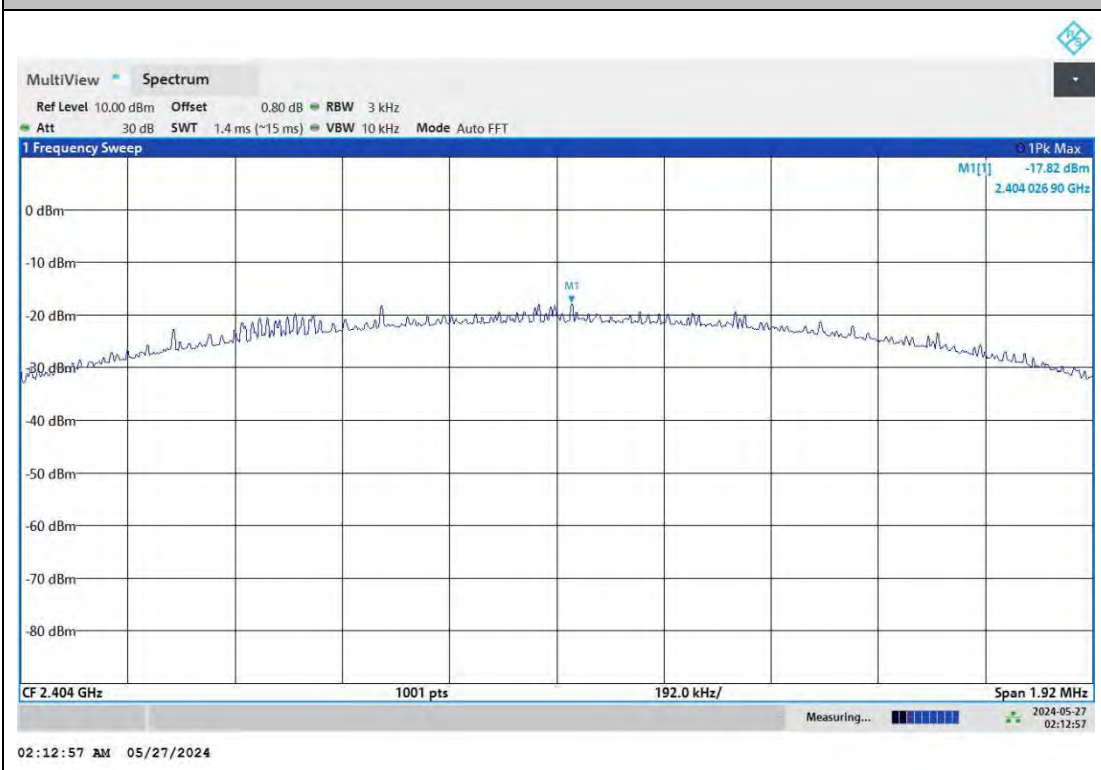
BLE_1M_Ant1_2402



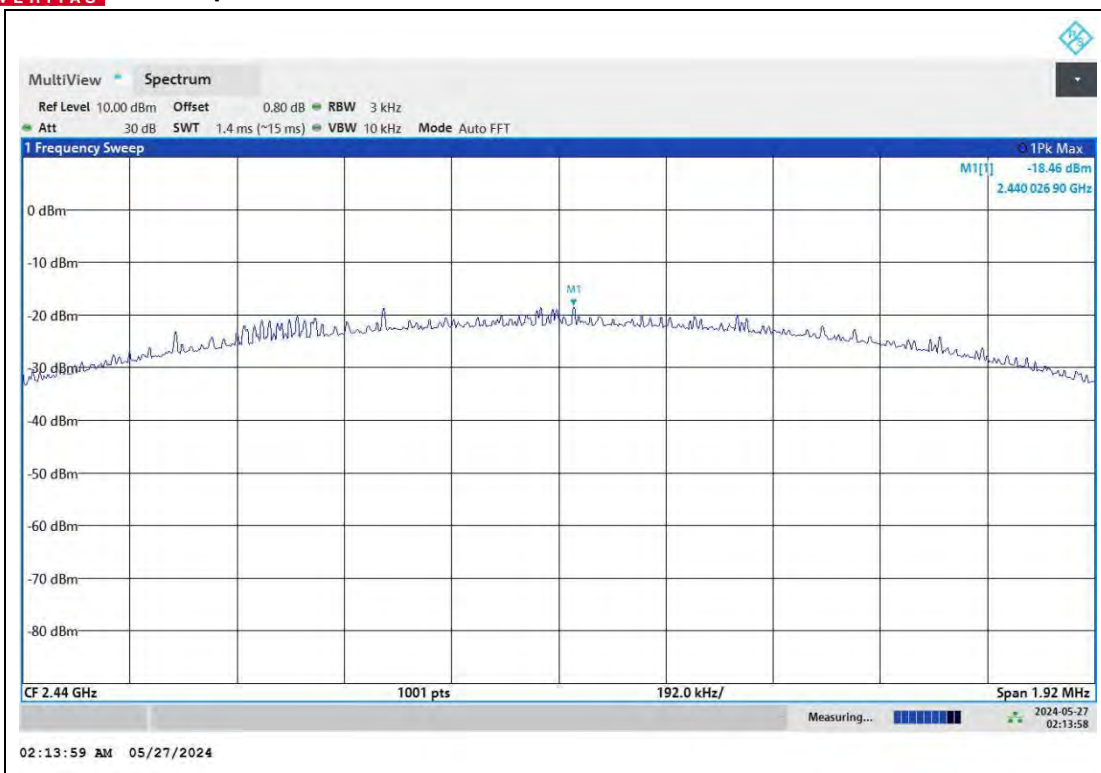
BLE_1M_Ant1_2440



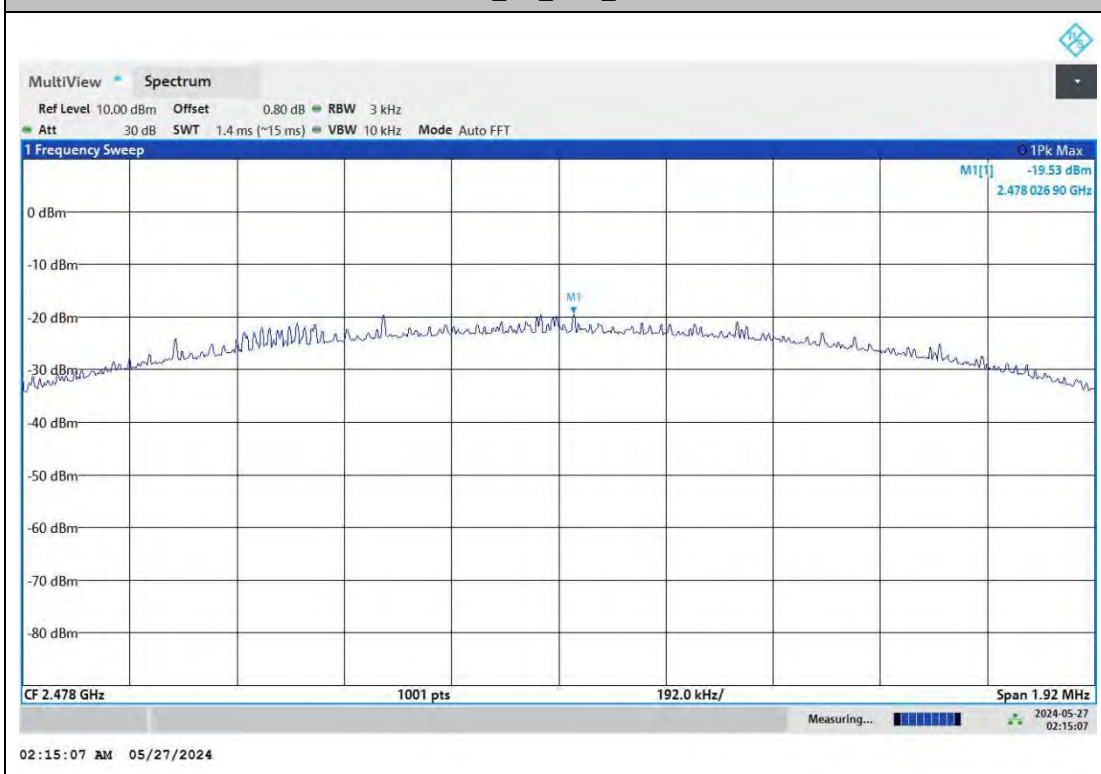
BLE_1M_Ant1_2480



BLE_2M_Ant1_2404



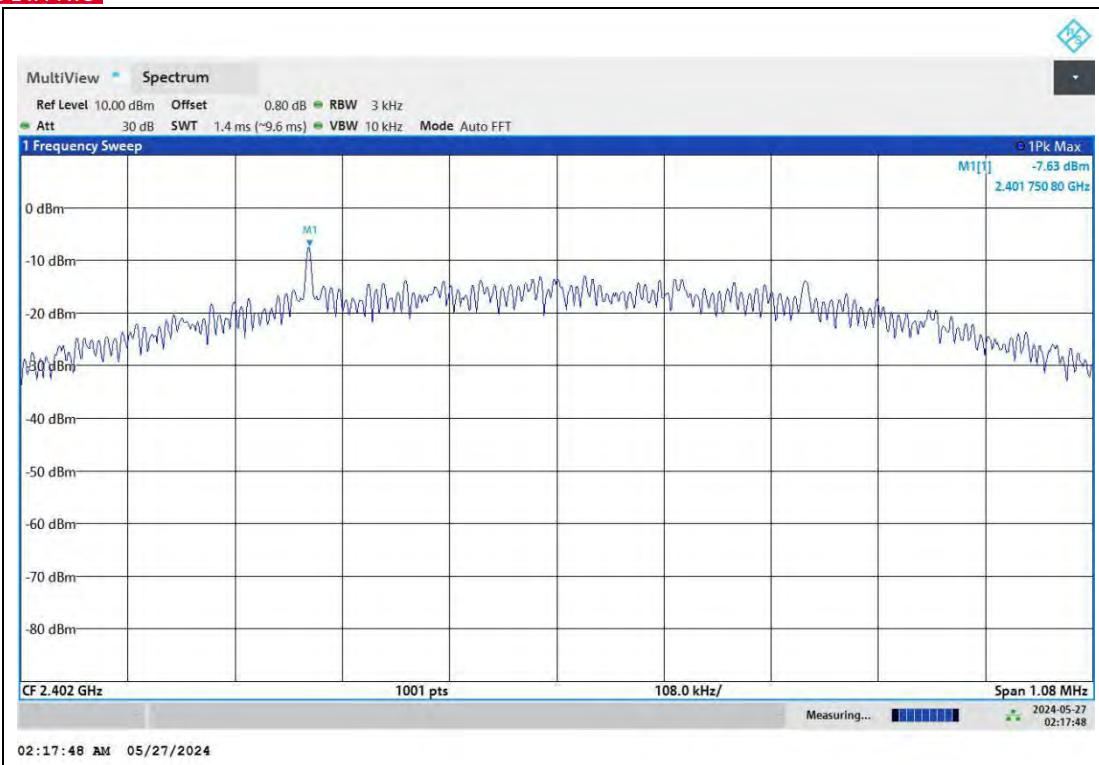
BLE_2M_Ant1_2440



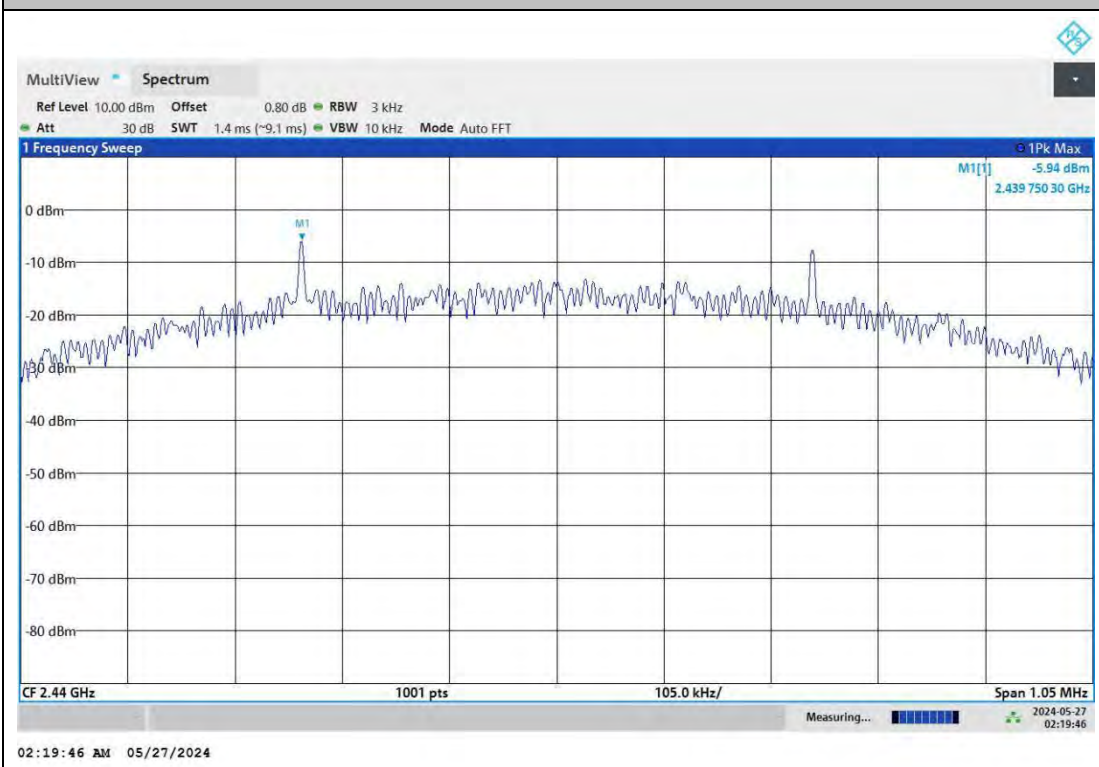
BLE_2M_Ant1_2478



BUREAU VERITAS Test Report No.: PSU-NQN2405090215RF06



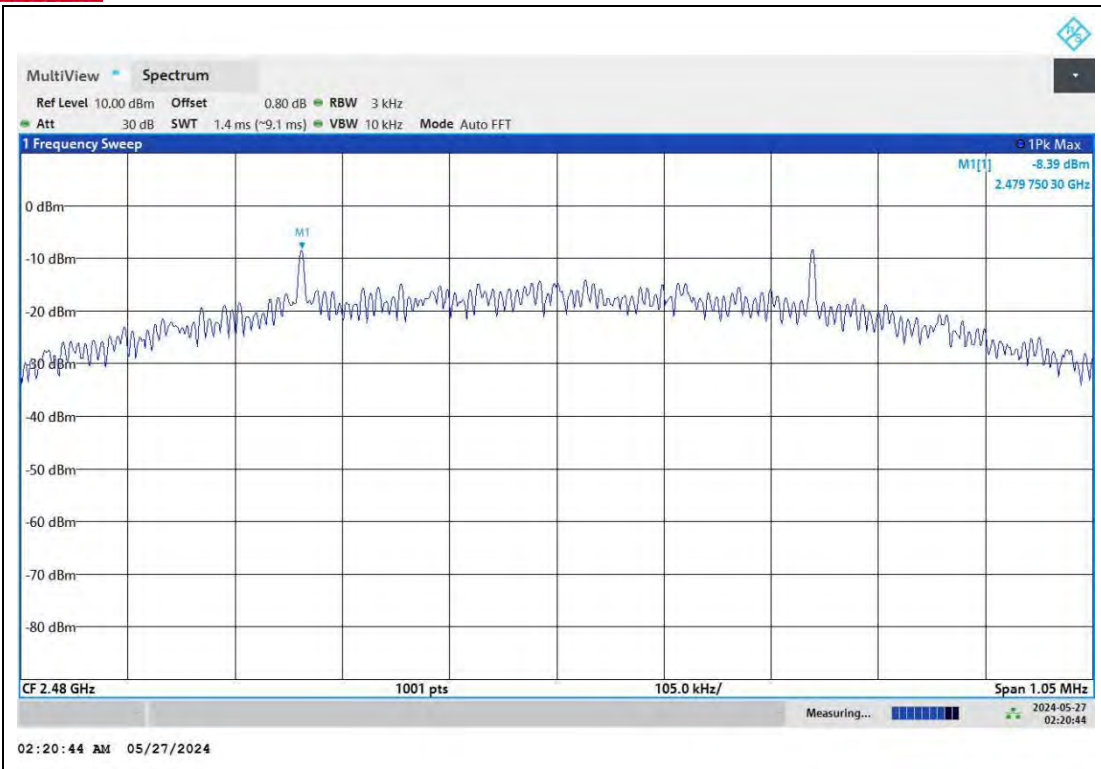
BLE_S2_Ant1_2402



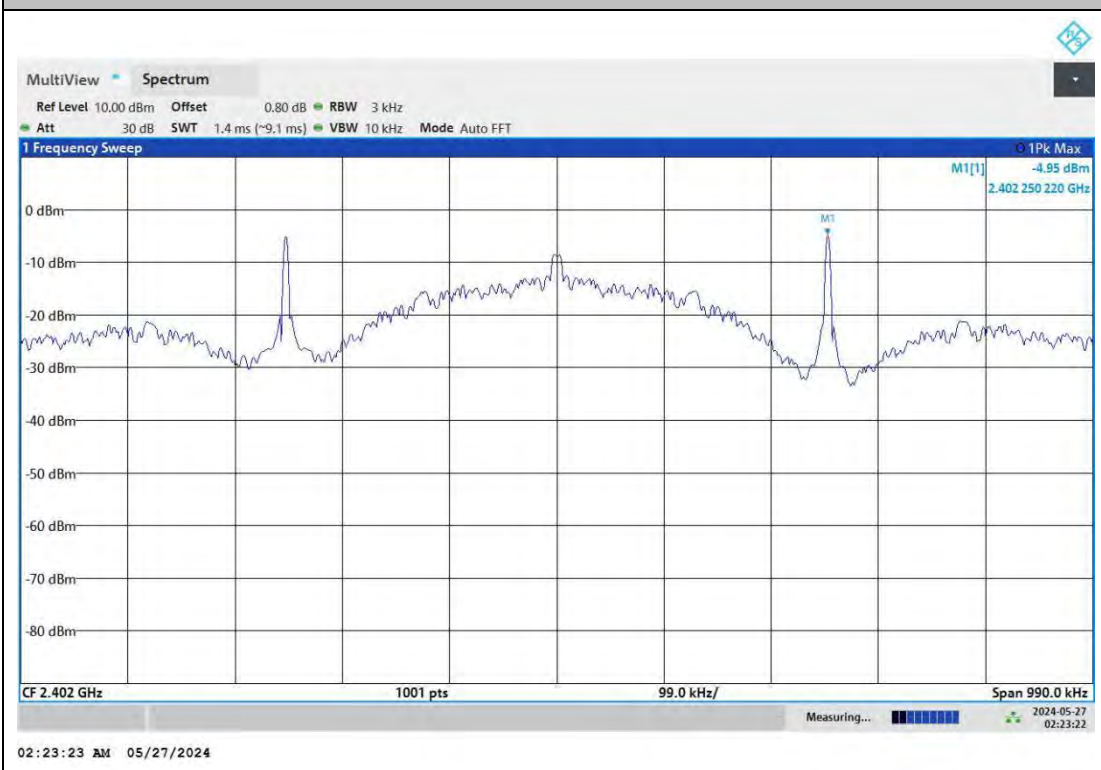
BLE_S2_Ant1_2440



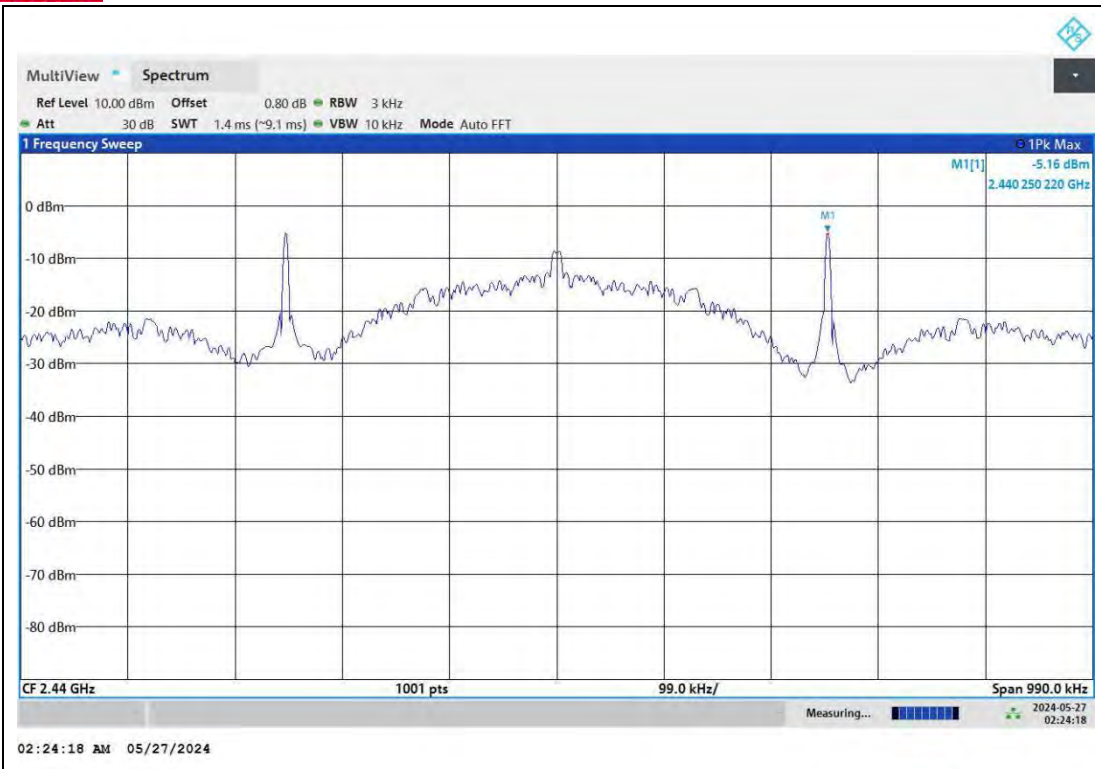
BUREAU VERITAS Test Report No.: PSU-NQN2405090215RF06



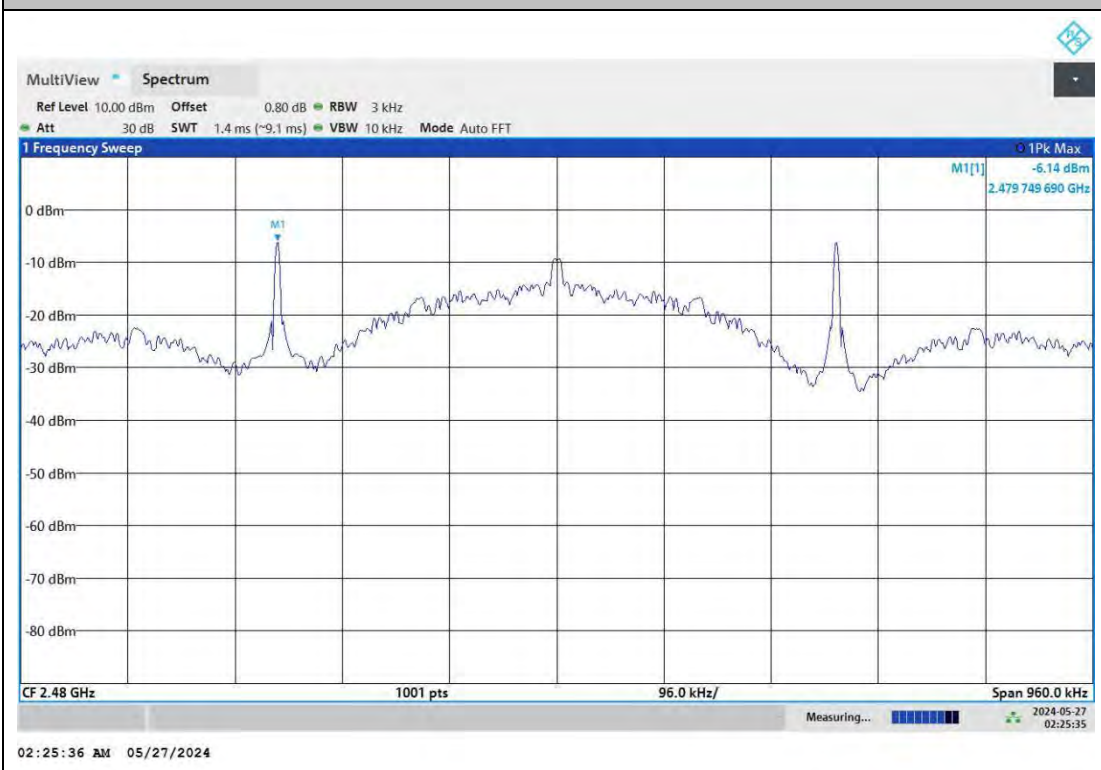
BLE_S2_Ant1_2480



BLE_S8_Ant1_2402



BLE_S8_Ant1_2440



BLE_S8_Ant1_2480



BAND EDGE MEASUREMENTS

TEST RESULT

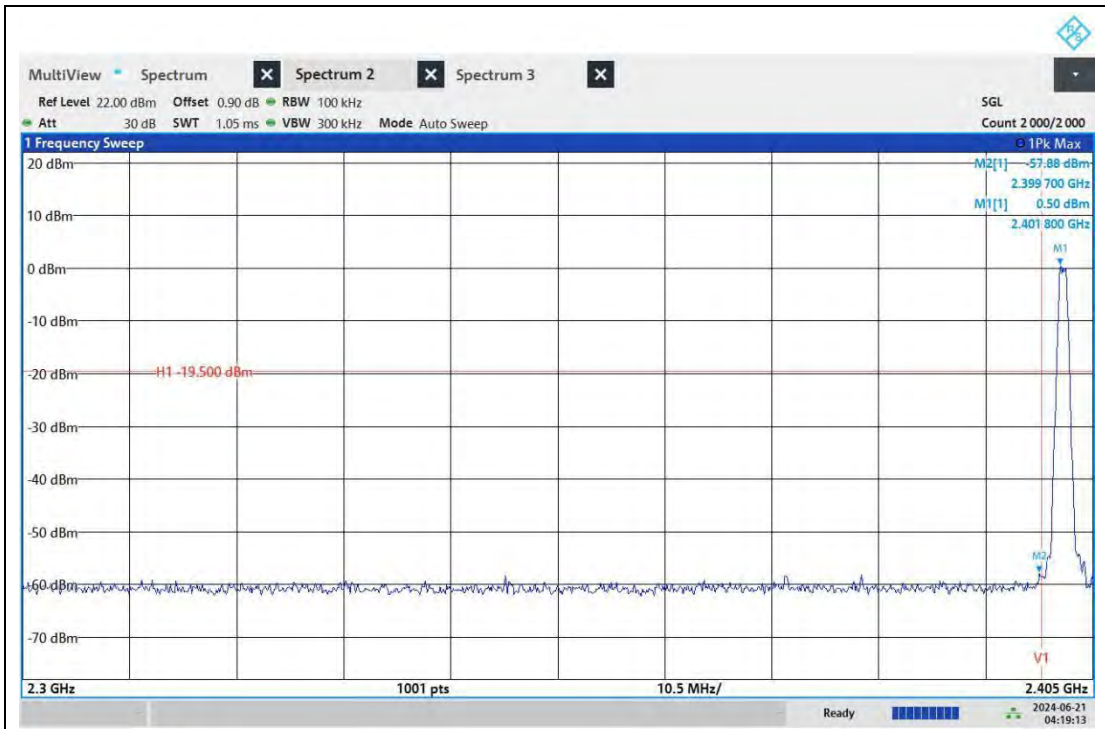
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	PASS



BUREAU VERITAS

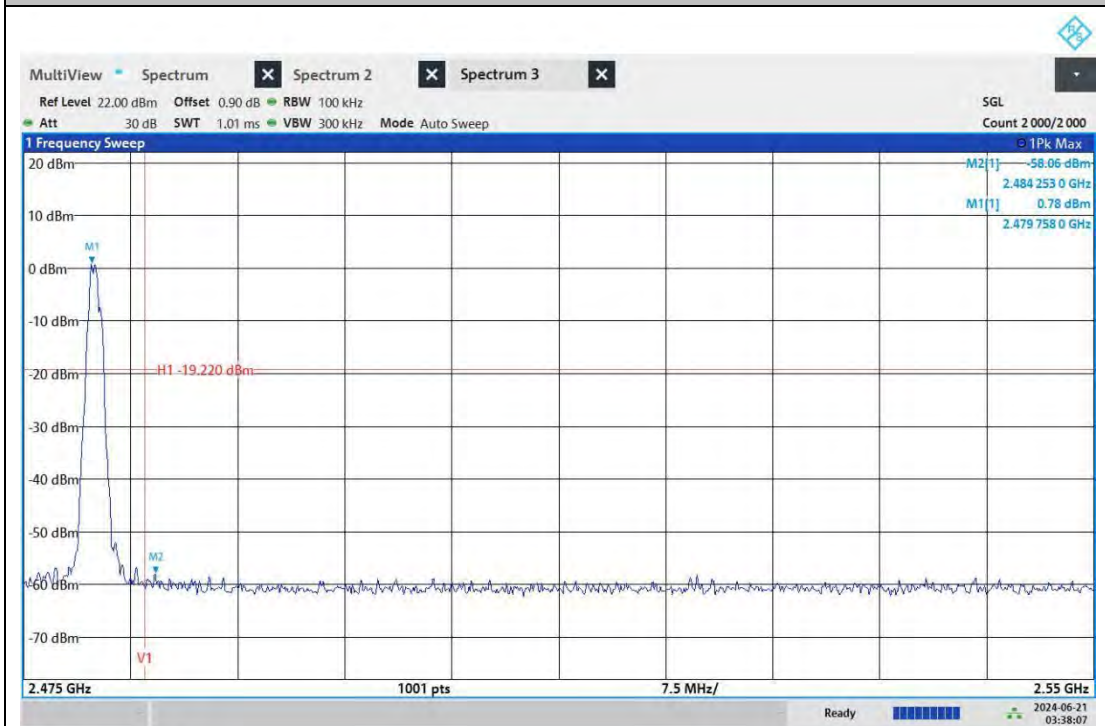
Test Report No.: PSU-NQN2405090215RF06

TEST GRAPHS



04:19:14 AM 06/21/2024

BLE_1M_Ant1_Low_2402



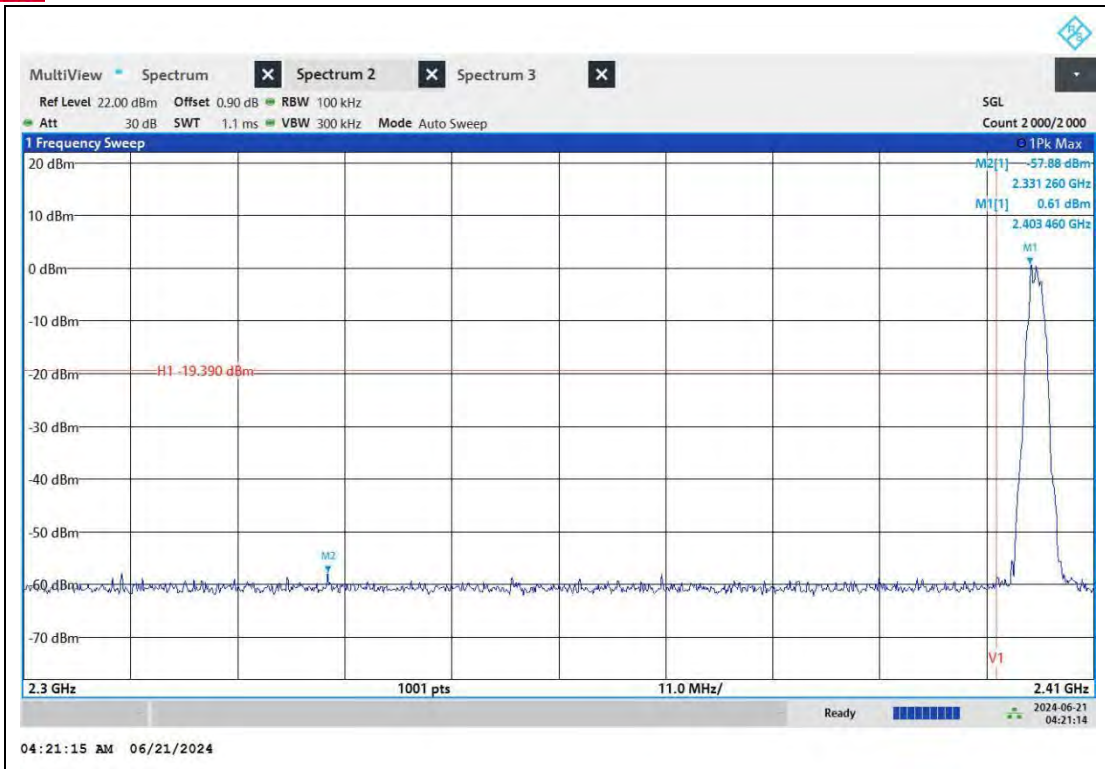
03:38:08 AM 06/21/2024

BLE_1M_Ant1_High_2480

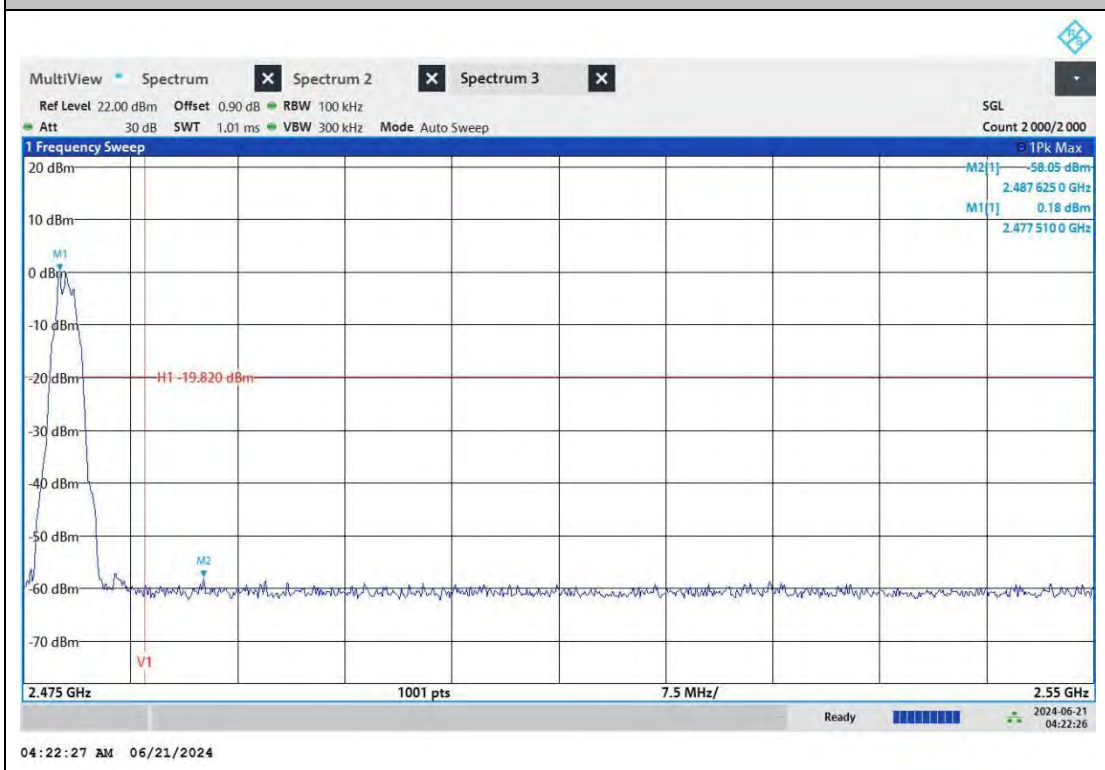


BUREAU VERITAS

Test Report No.: PSU-NQN2405090215RF06



BLE_2M_Ant1_Low_2404

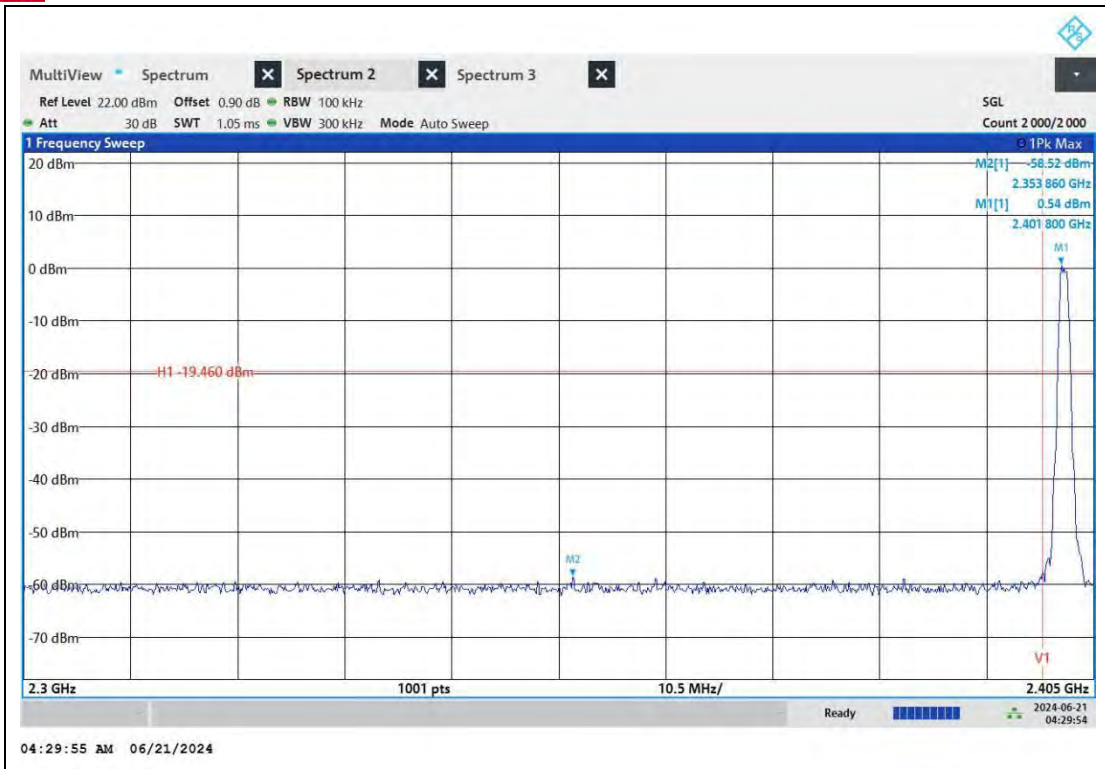


BLE_2M_Ant1_High_2478

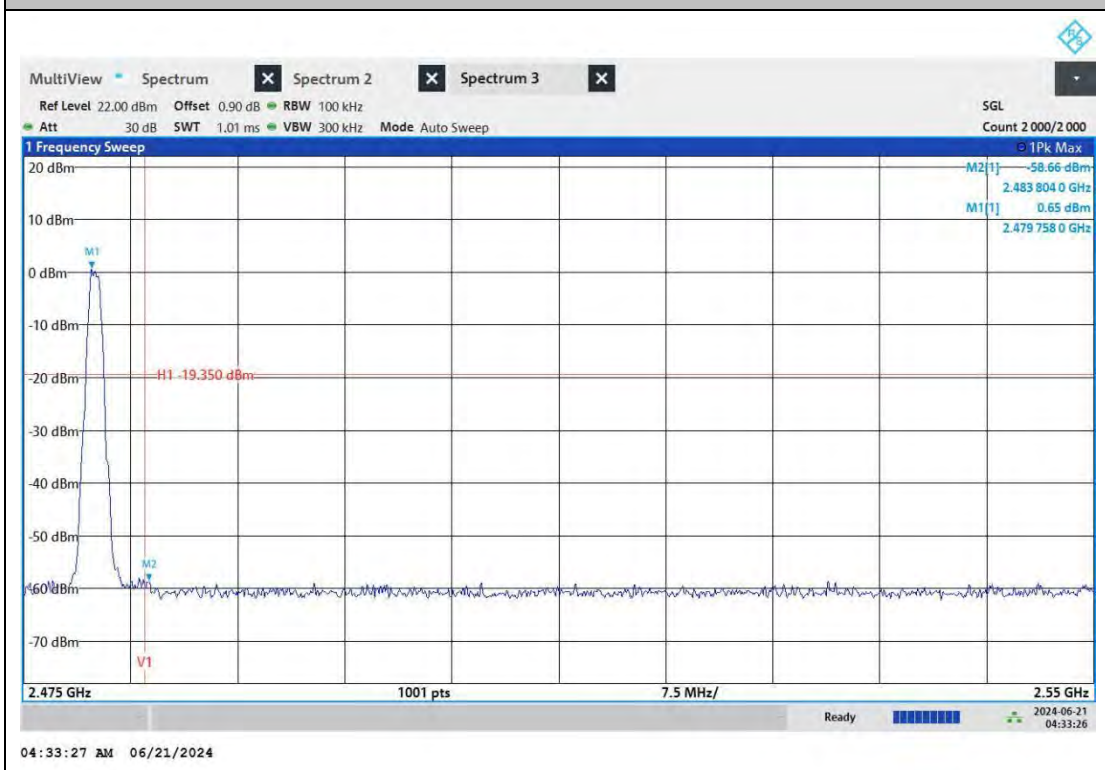


BUREAU VERITAS

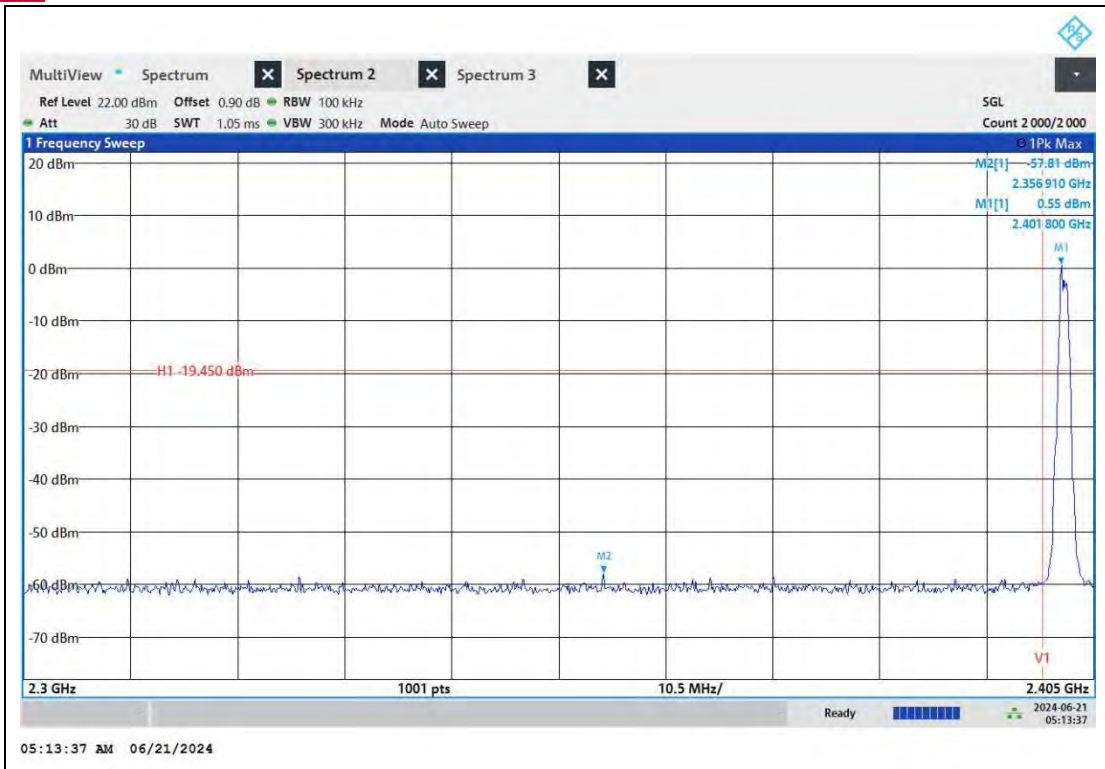
Test Report No.: PSU-NQN2405090215RF06



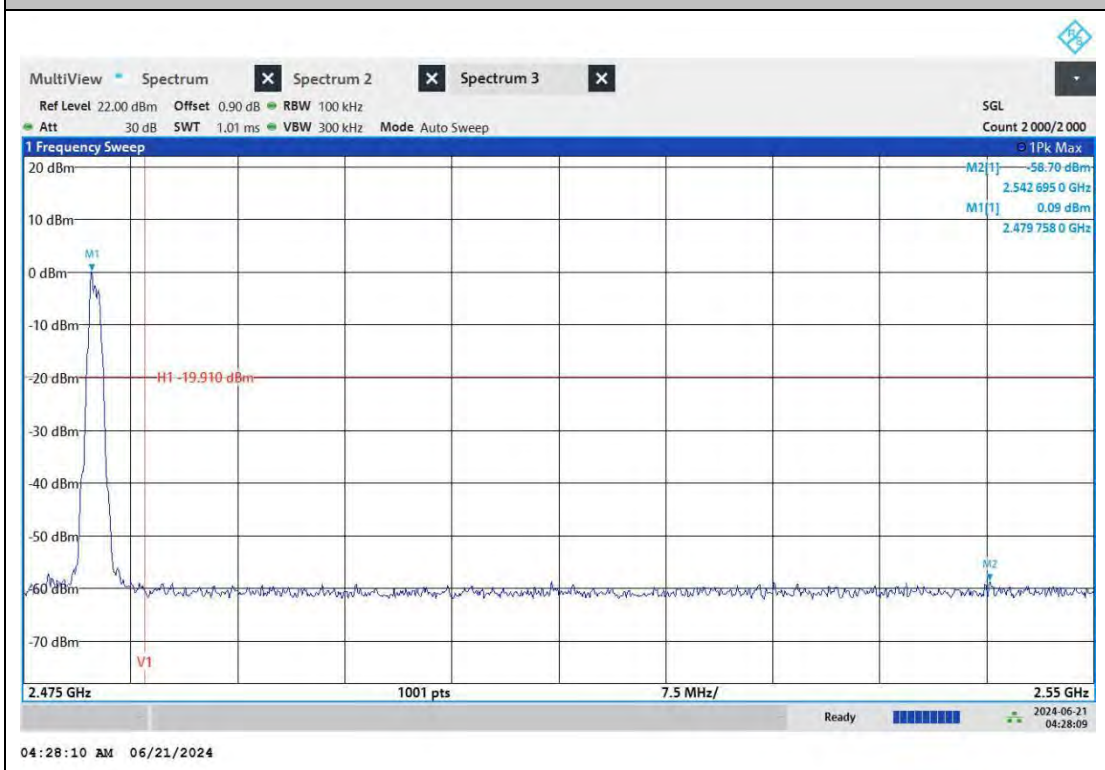
BLE_S2_Ant1_Low_2402



BLE_S2_Ant1_High_2480



BLE_S8_Ant1_Low_2402



BLE_S8_Ant1_High_2480

RBW 100.000 kHz

VBW 300.000 kHz

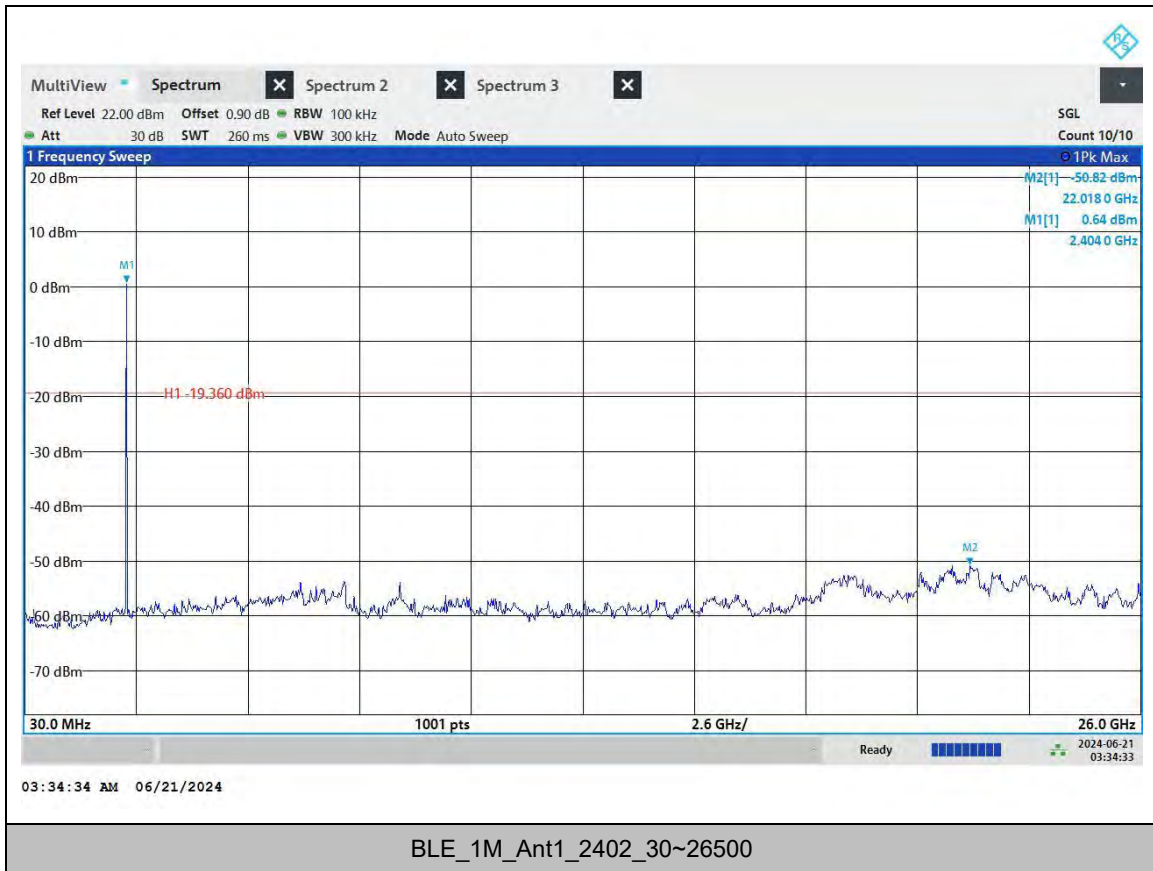


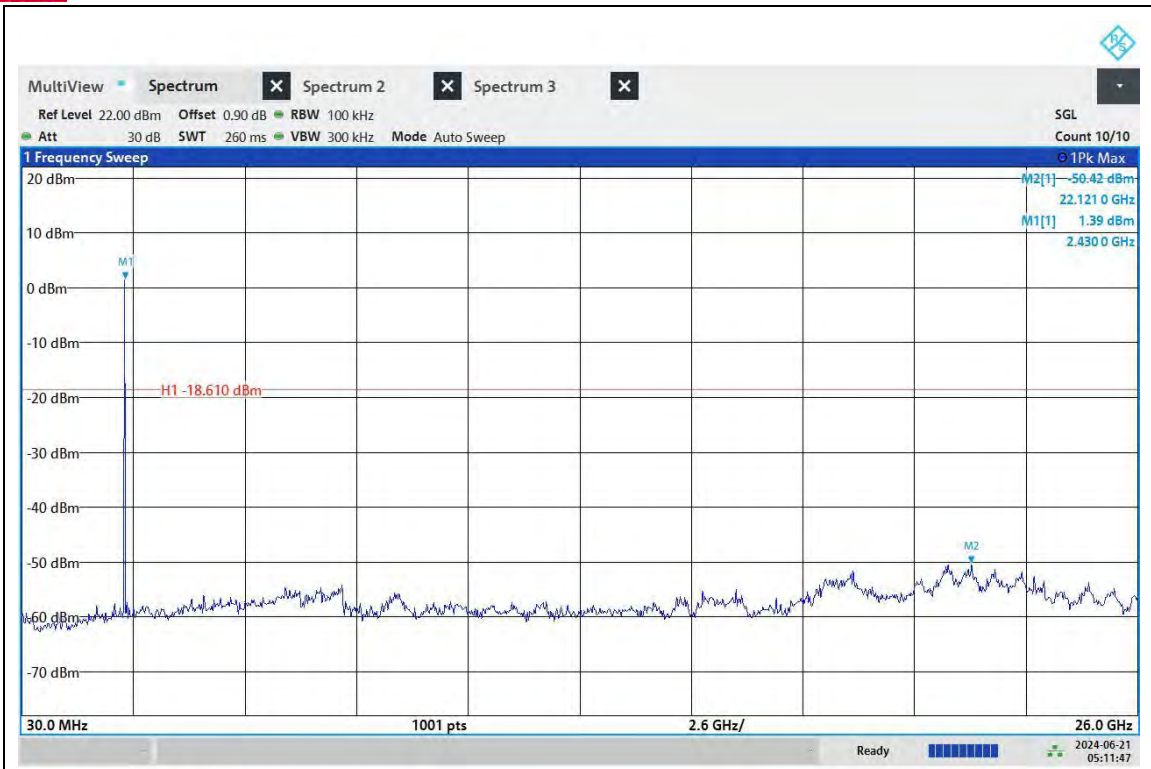
CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Channel	FreqRange [MHz]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~26500	See test graph	See test graph	PASS
		2440	30~26500	See test graph	See test graph	PASS
		2480	30~26500	See test graph	See test graph	PASS



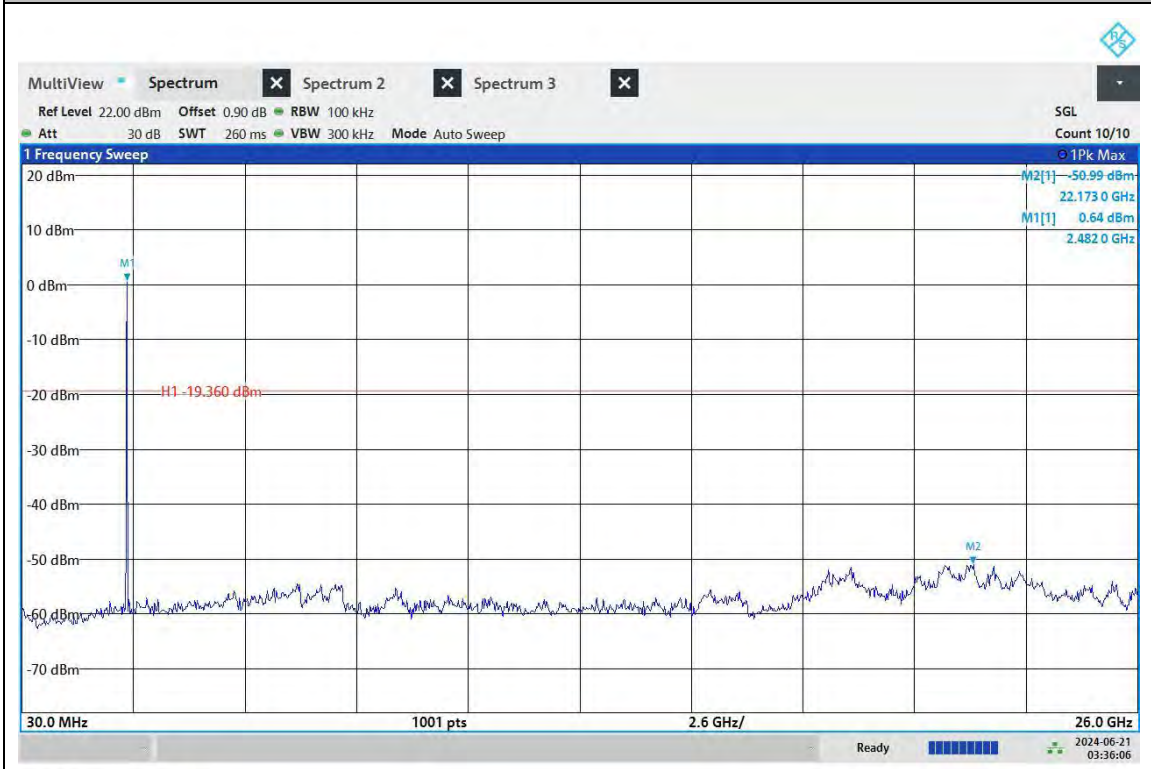
TEST GRAPHS





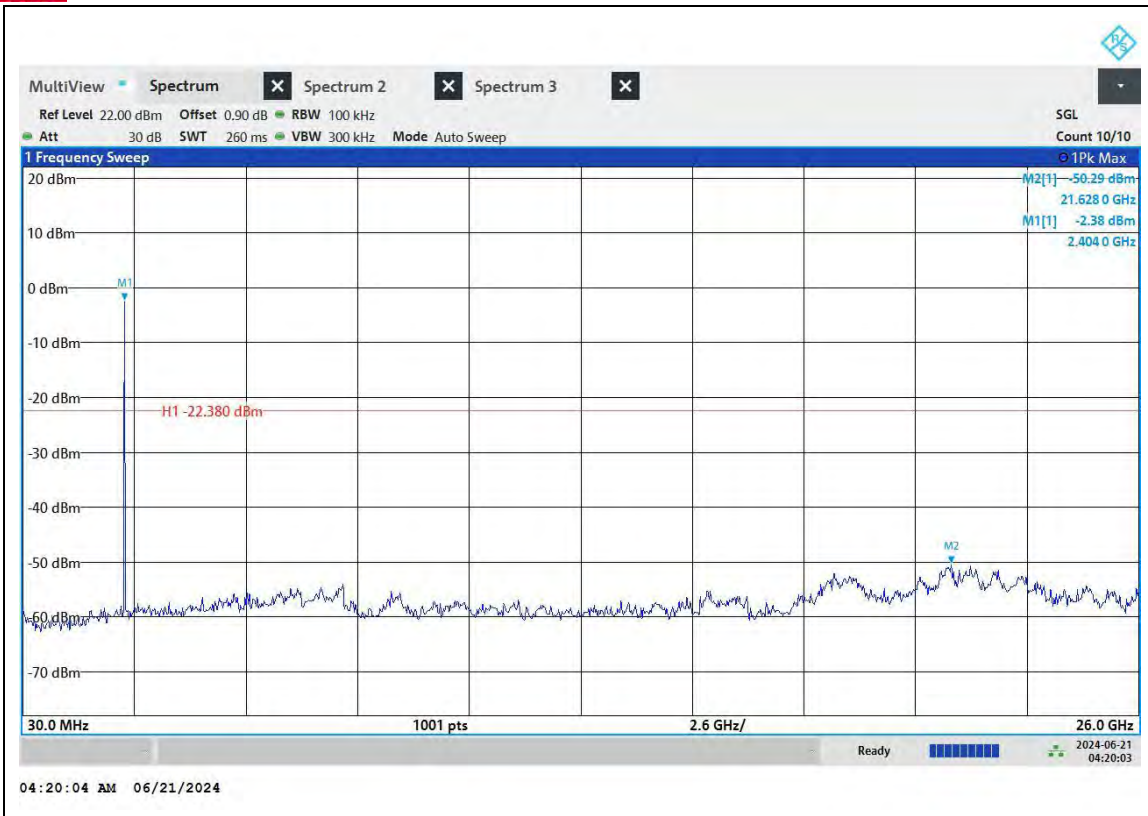
05:11:47 AM 06/21/2024

BLE_1M_Ant1_2440_30~26500



03:36:06 AM 06/21/2024

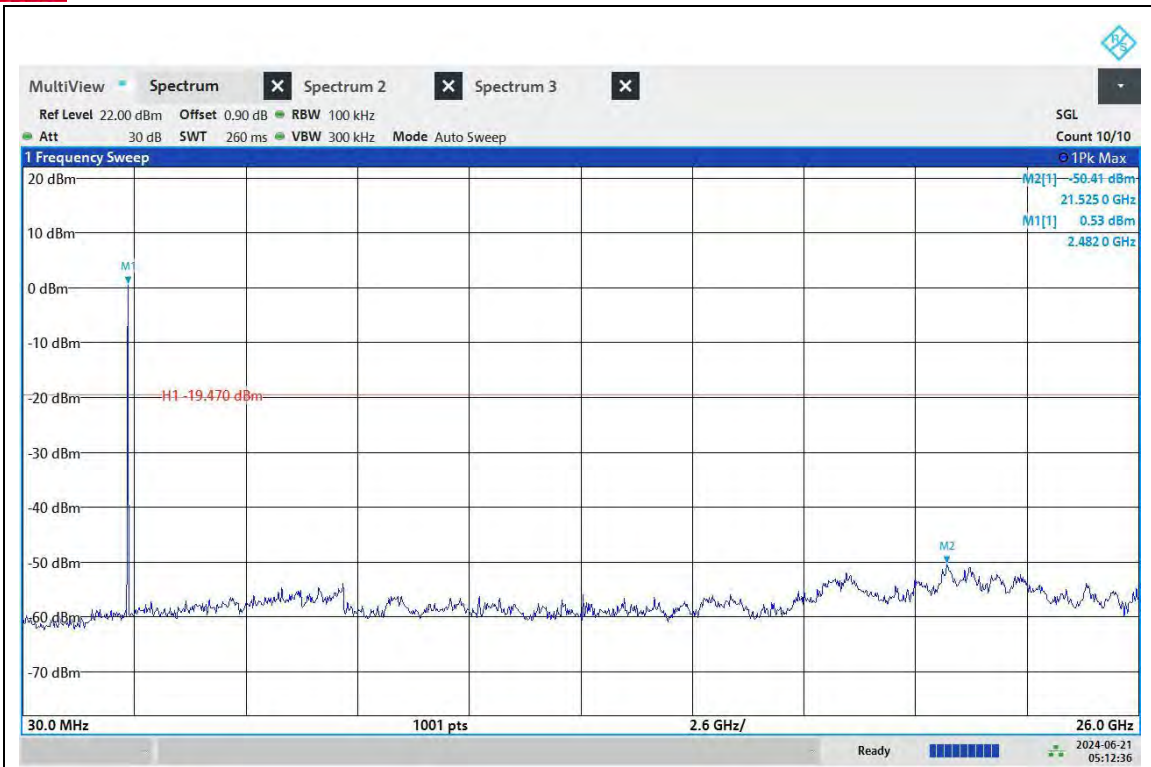
BLE_1M_Ant1_2480_30~26500



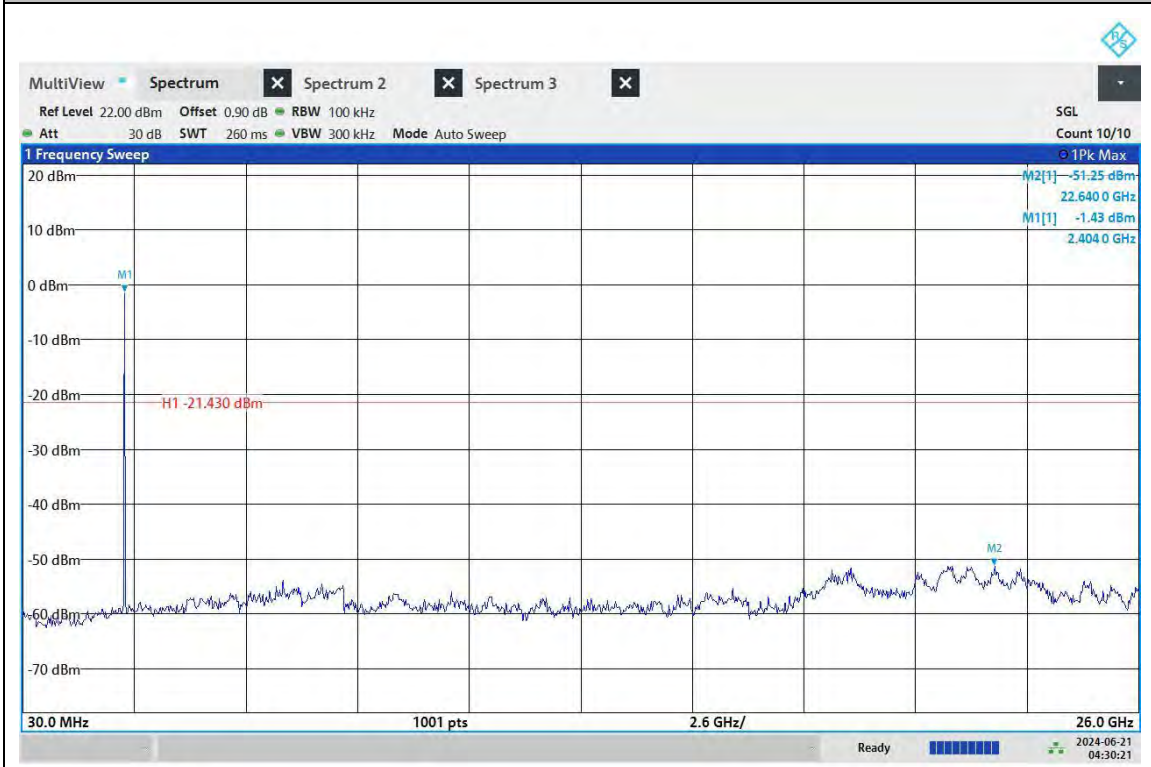
BLE_2M_Ant1_2404_30~26500



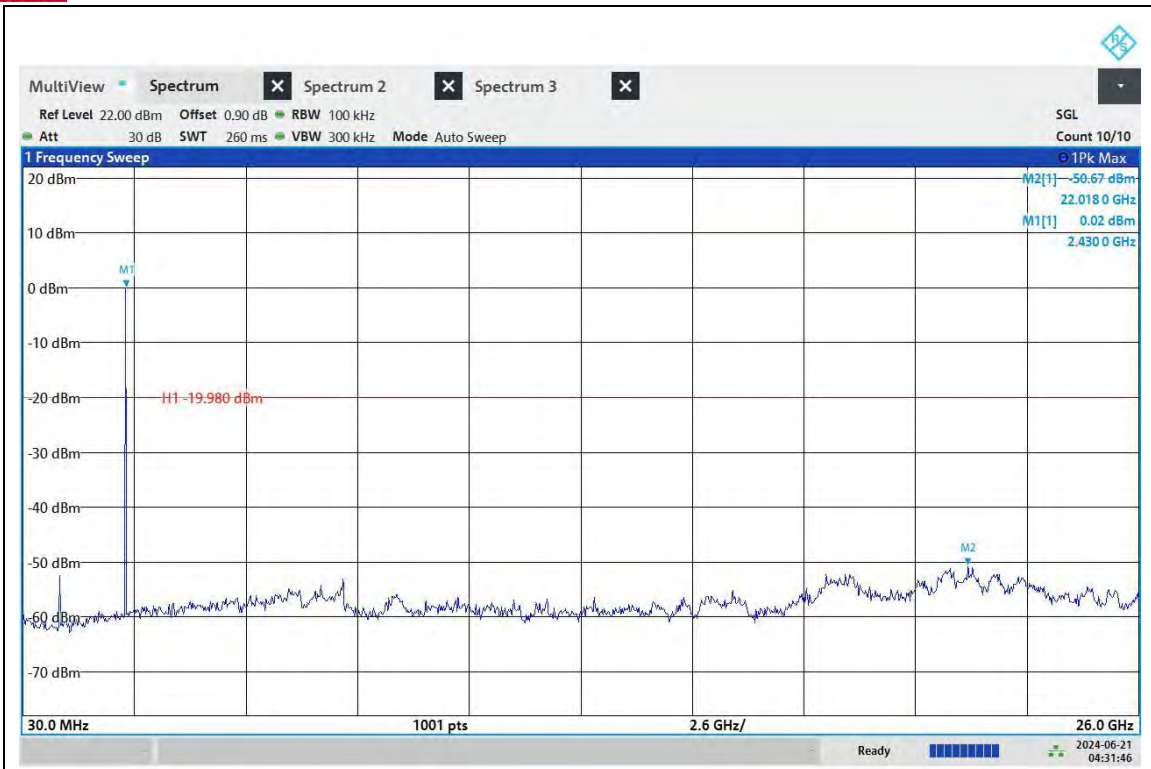
BLE_2M_Ant1_2440_30~26500



BLE_2M_Ant1_2478_30~26500

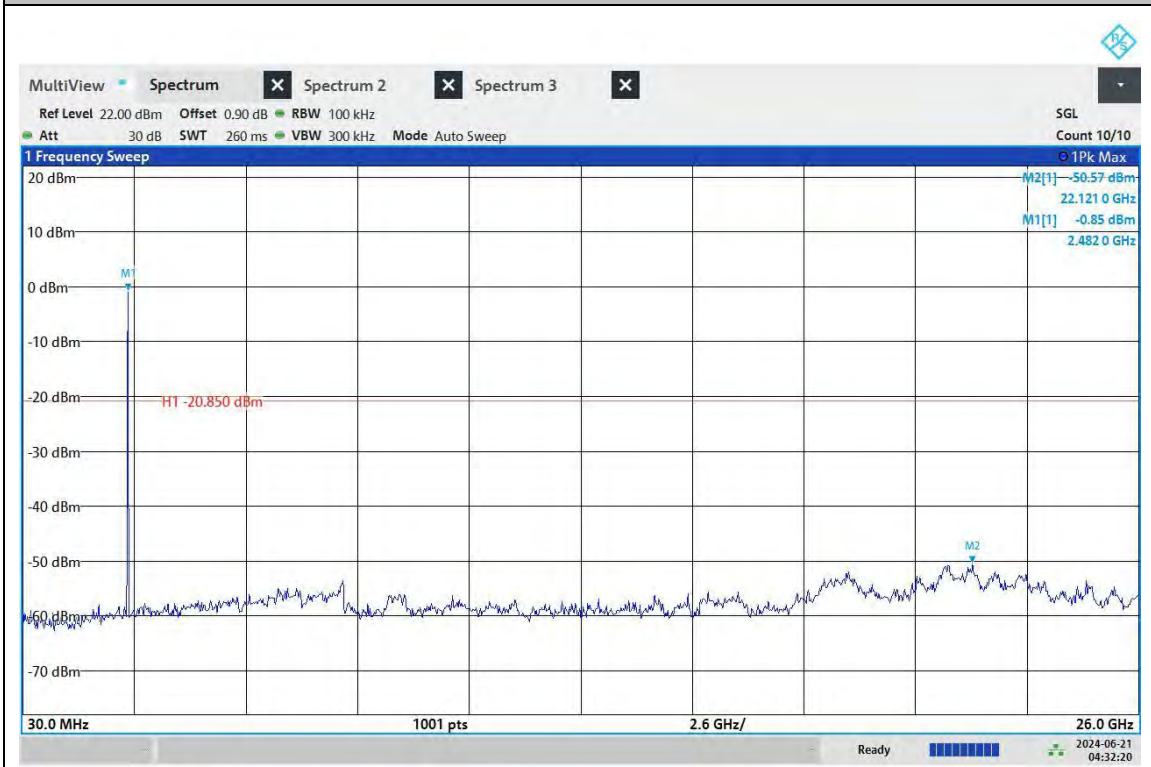


BLE_S2_Ant1_2402_30~26500



04:31:47 AM 06/21/2024

BLE_S2_Ant1_2440_30~26500

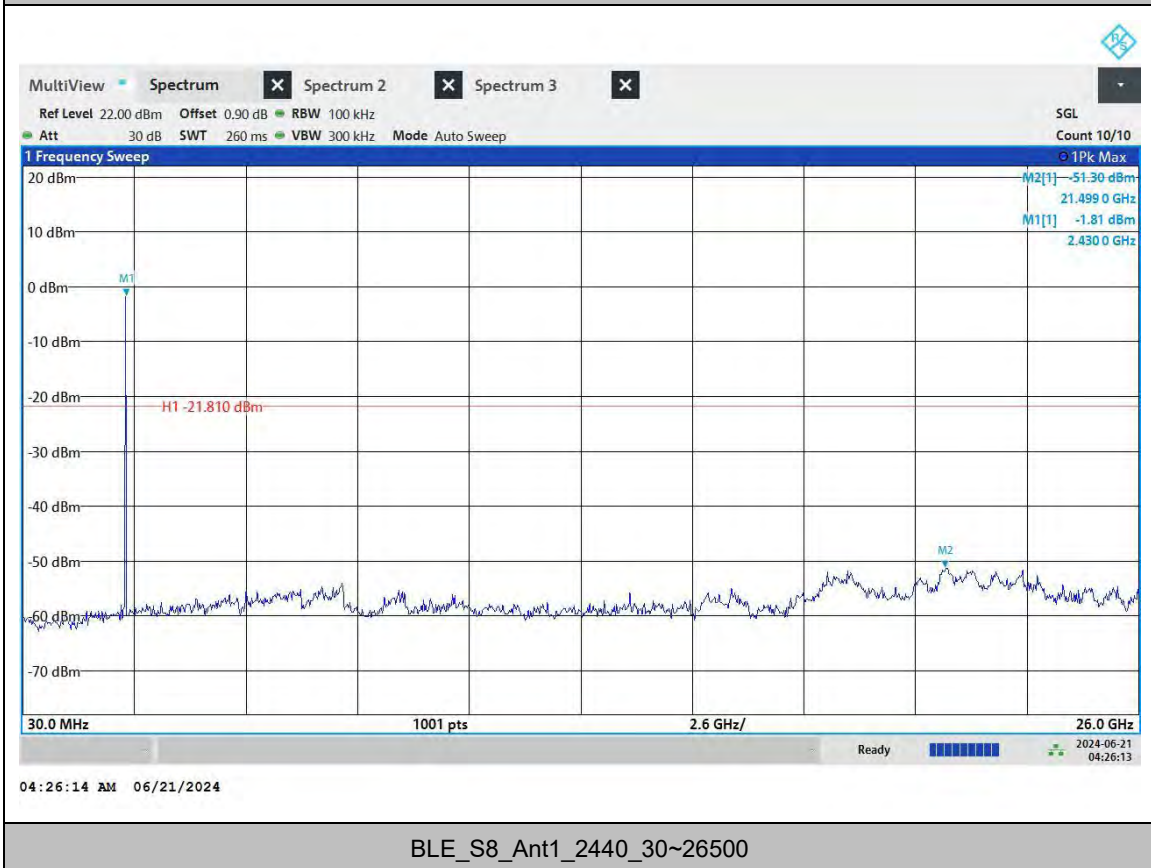


04:32:20 AM 06/21/2024

BLE_S2_Ant1_2480_30~26500



BLE_S8_Ant1_2402_30~26500

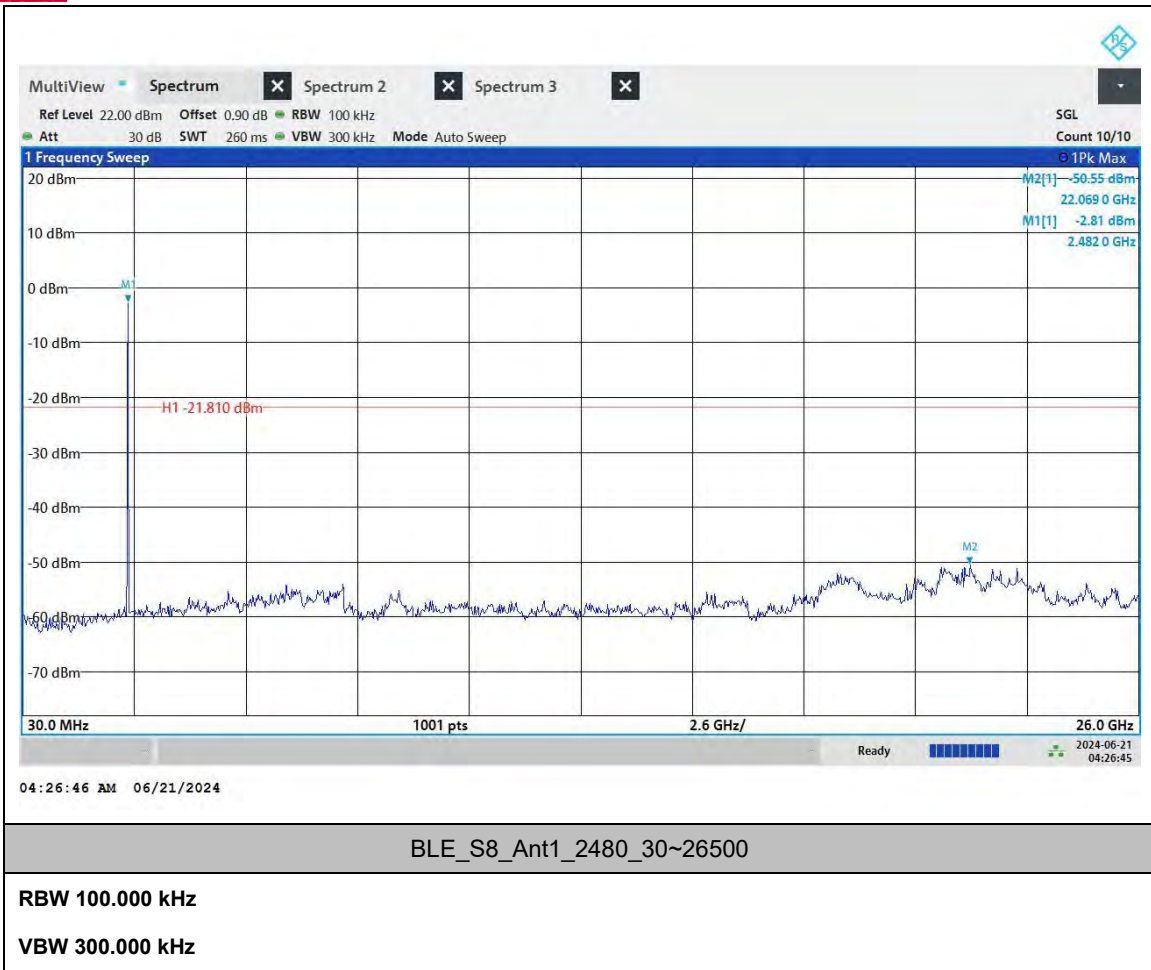


BLE_S8_Ant1_2440_30~26500



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VERITAS**

Test Report No.: PSU-NQN2405090215RF06





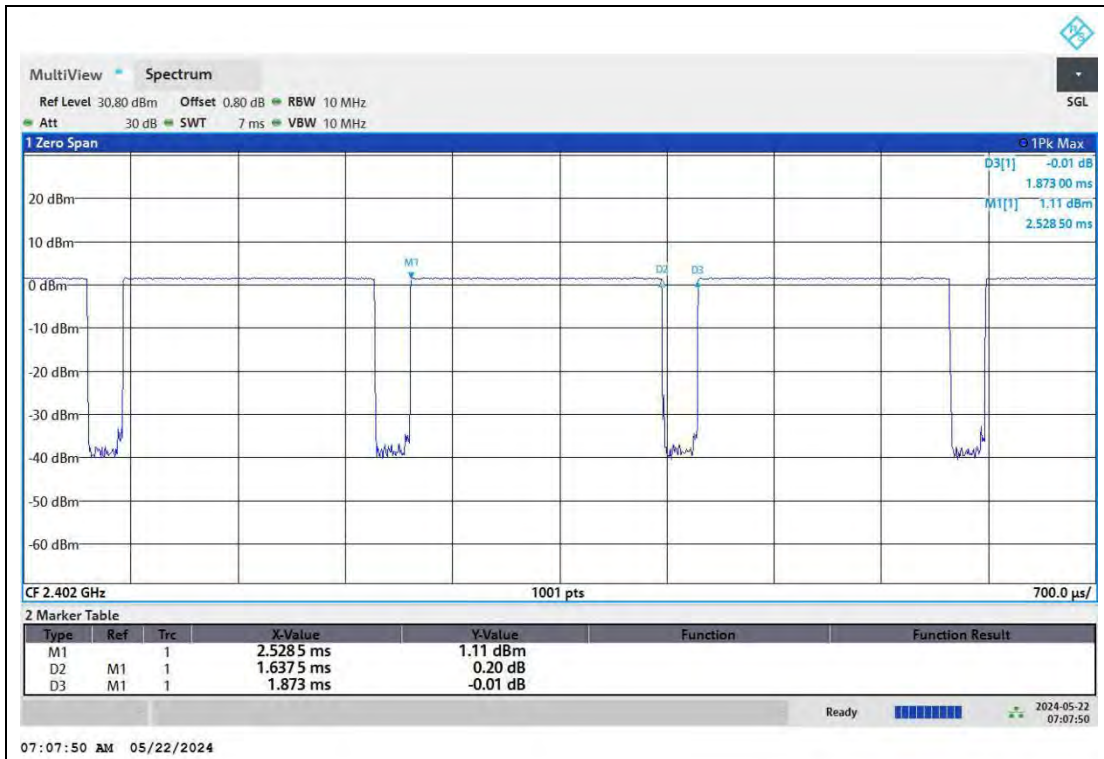
DUTY CYCLE

TEST RESULT

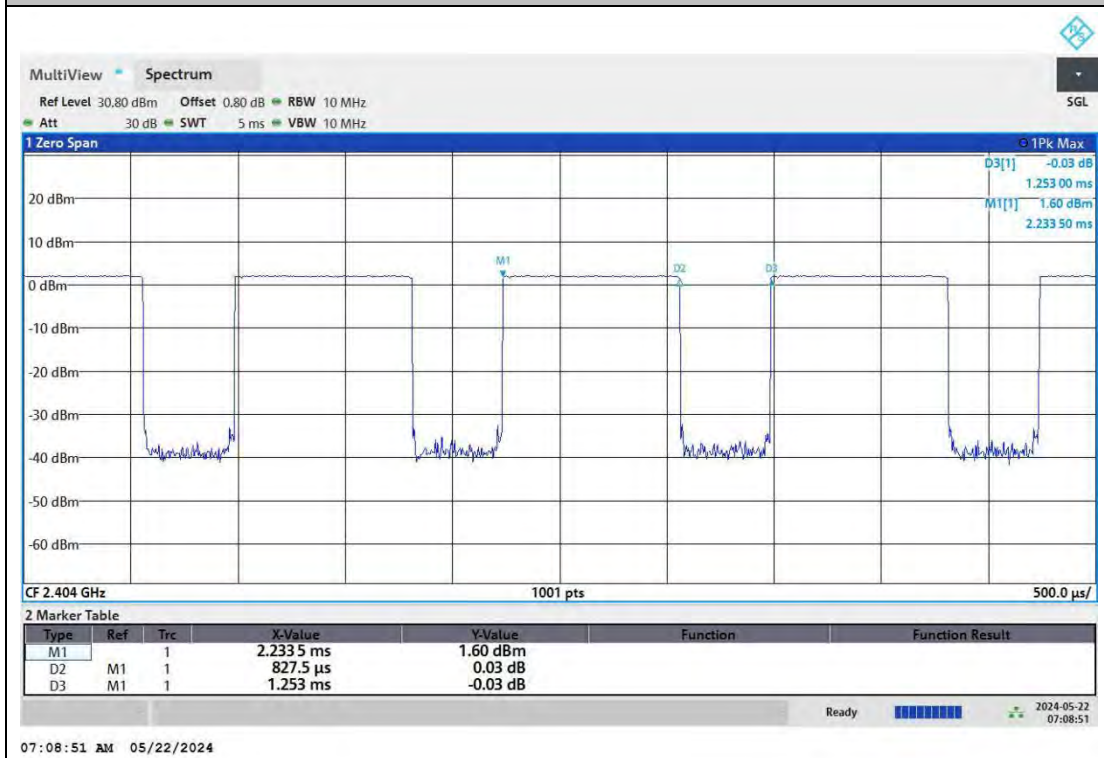
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	1.6375	1.8730	0.8743	87.43 %	0.58	---	PASS
BLE_2M	Ant1	2404	0.8275	1.2530	0.6604	66.04 %	1.8	---	PASS
BLE-S2	Ant1	2402	3.5360	4.3520	0.8125	81.25 %	0.9	---	PASS
BLE_S8	Ant1	2402	13.085 0	13.83 00	0.9461	94.61 %	0.24	---	PASS



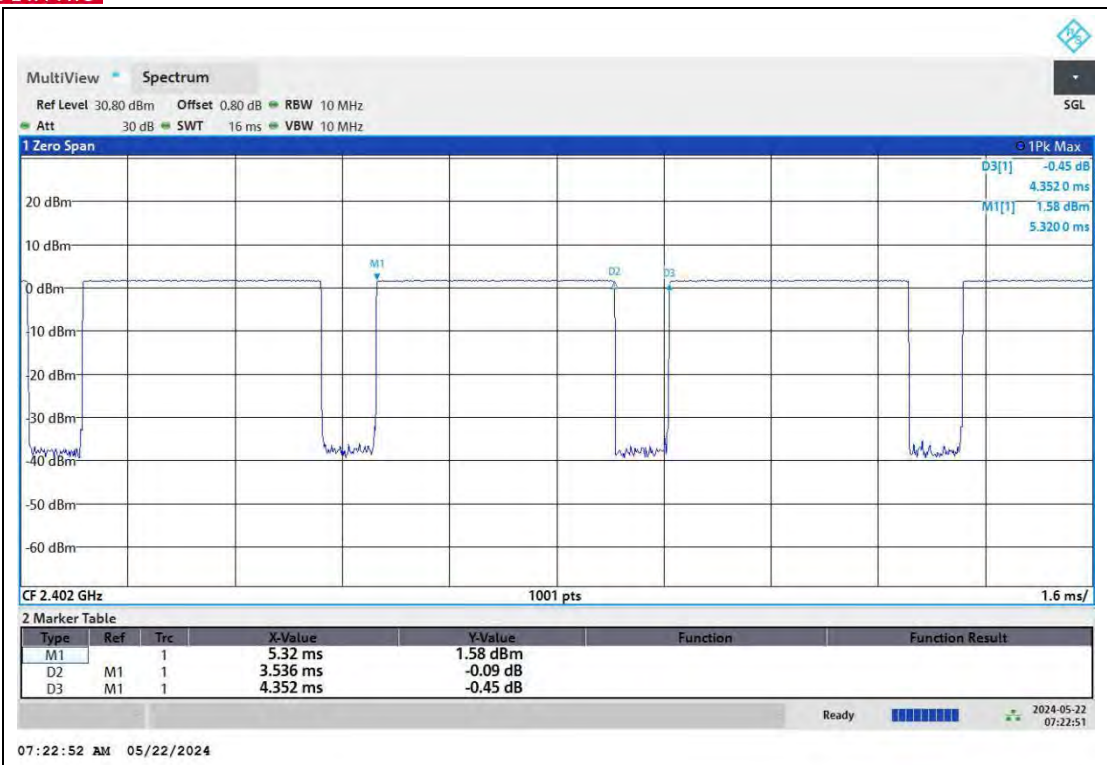
TEST GRAPHS



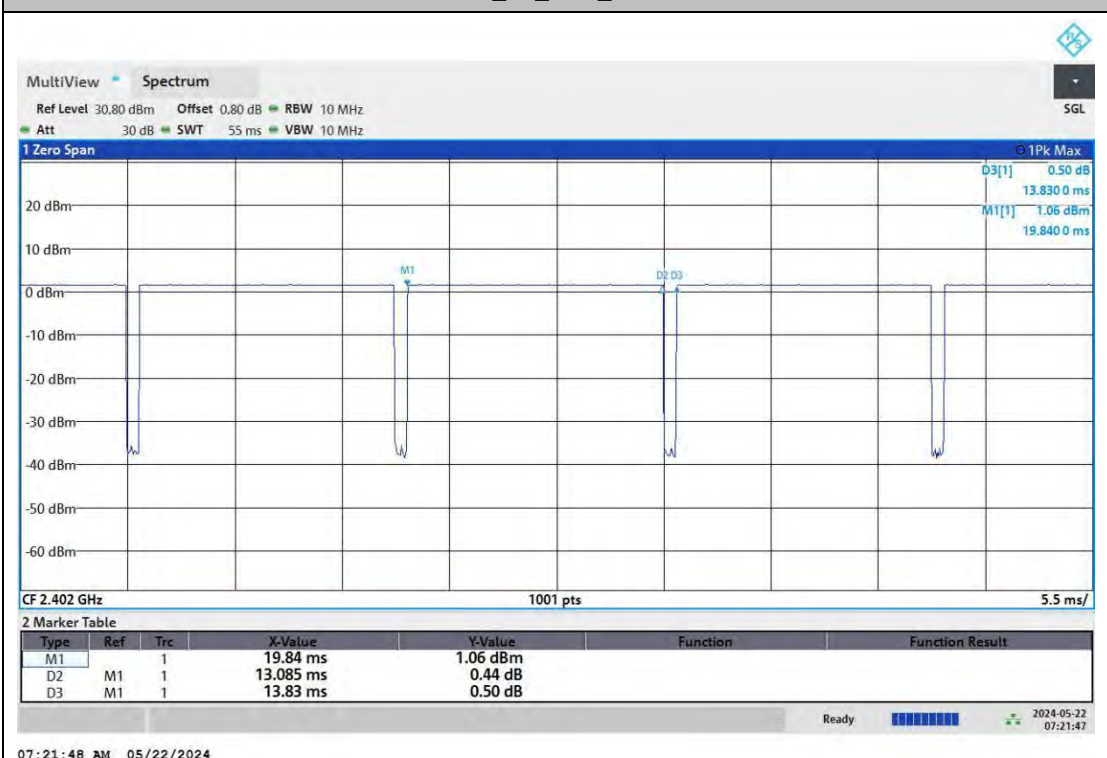
BLE_1M_Ant1_2402



BLE_2M_Ant1_2404



BLE_S2_Ant1_2402



BLE_S8_Ant1_2402

--END--