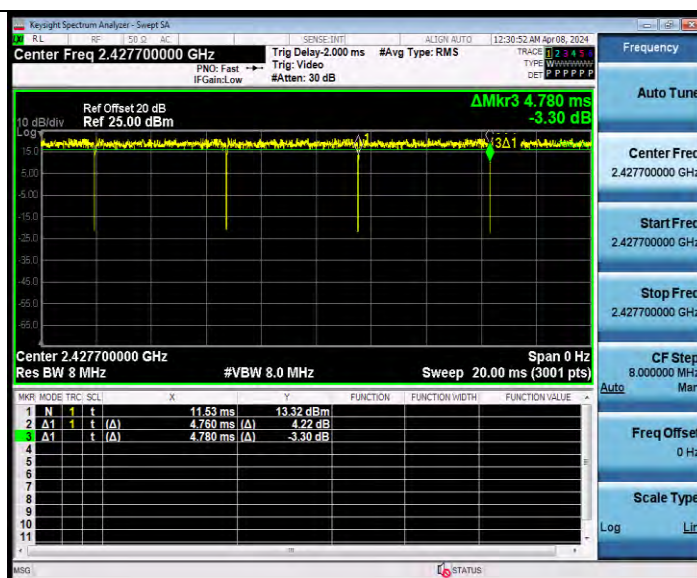
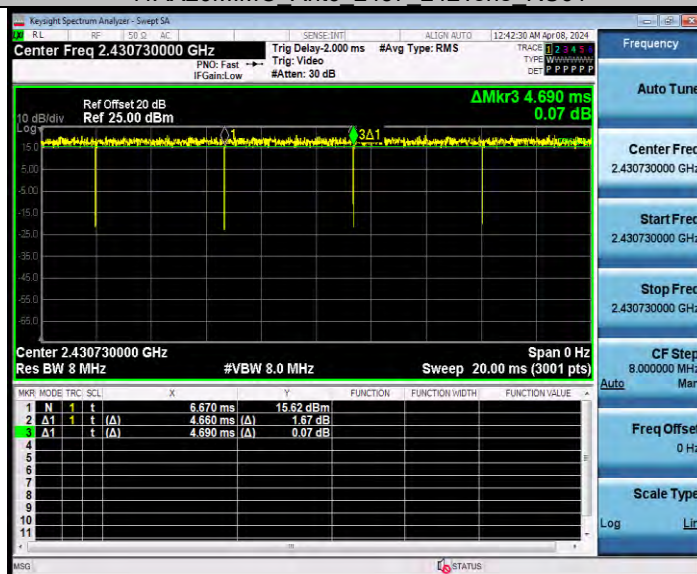




Reference No.: PSU-QSU2312140113RF10



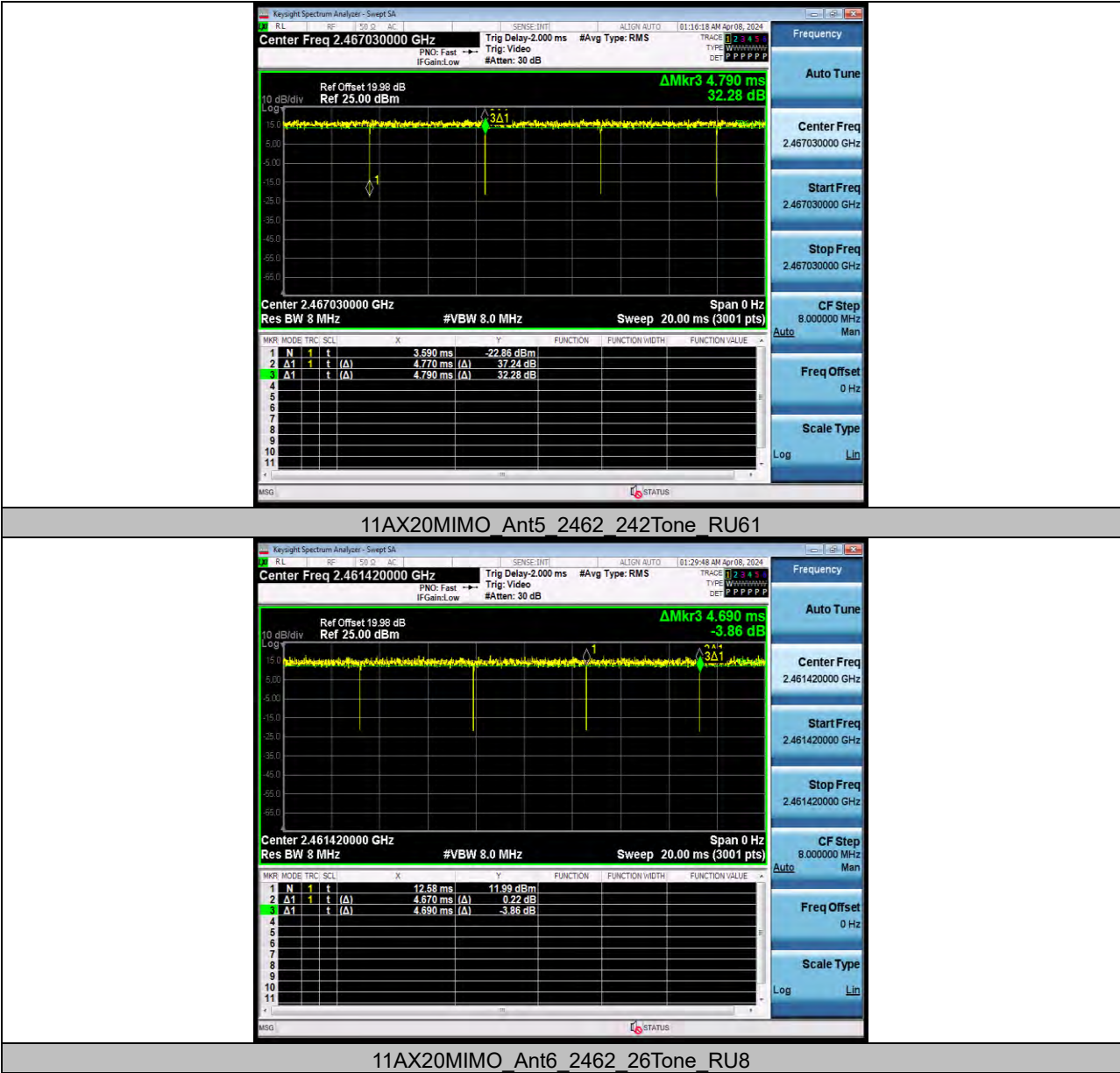
11AX20MIMO Ant6 2437 242Tone RU61



11AX20MIMO Ant5 2462 26Tone RU8

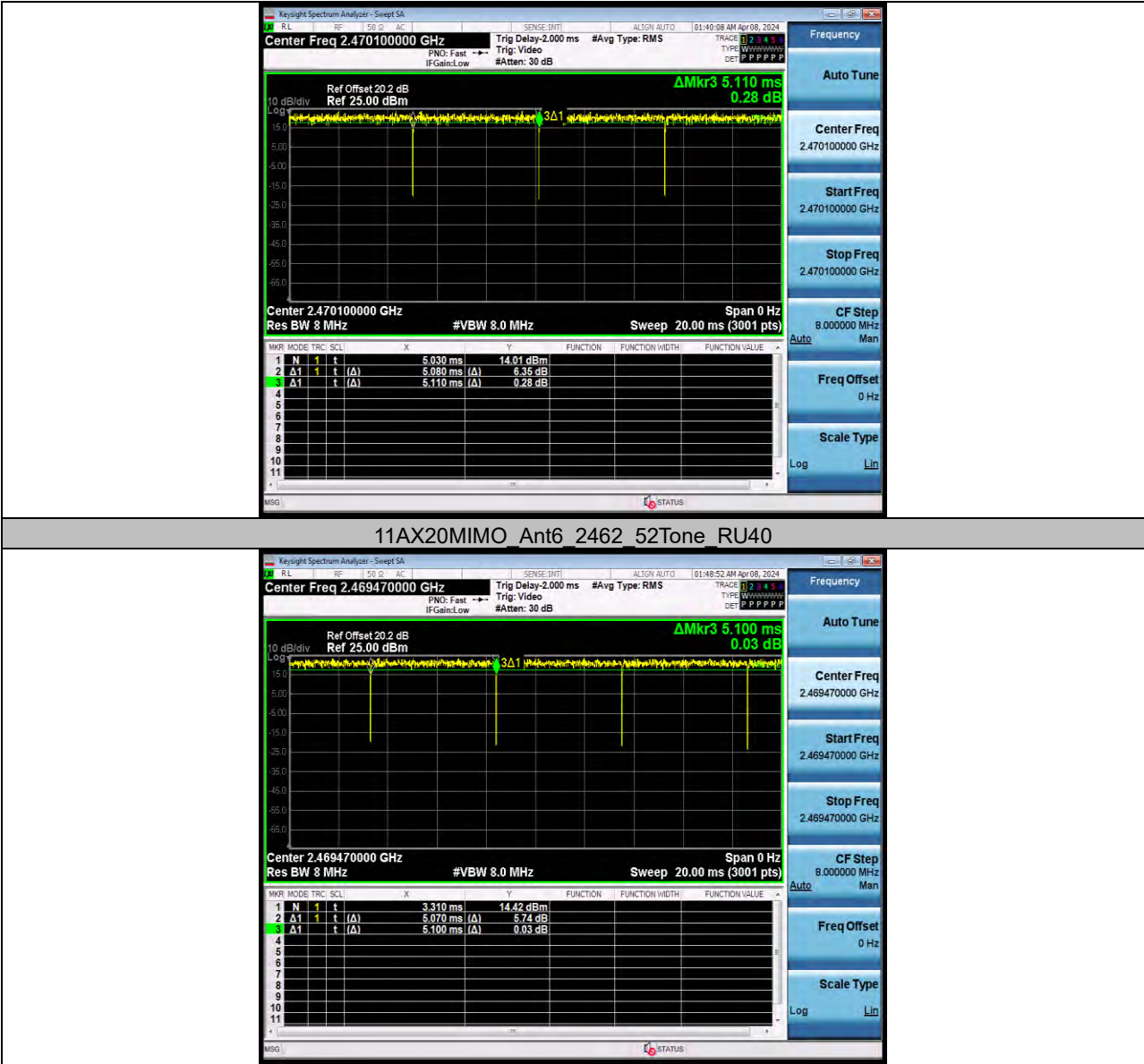


Reference No.: PSU-QSU2312140113RF10





Reference No.: PSU-QSU2312140113RF10



WLAN 2.4G RU MODE BEAMFORMING

MAXIMUM CONDUCTED OUTPUT POWER TEST RESULT

Test Mode	TX Mod.	RU Config.	Freq. [MHz]	Ant.	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Power Limit [dBm]	EIRP power [dBm]	EIRP power [mw]	EIRP Limit [dBm]	Verdict	Power Setting
11AX20	MIMO	26/0	2412	ANT5	13.77	23.03	200.91	≤34.47	24.64	291.07	≤36.00	PASS	Default
				ANT6	13.18	22.65	184.08	≤34.47	24.26	266.69	≤36.00	PASS	Default
				Total	16.50	25.85	384.99	≤34.47	27.46	557.19	≤36.00	PASS	Default
		26/4	2437	ANT5	15.07	23.53	225.42	≤34.47	25.14	326.59	≤36.00	PASS	Default
				ANT6	14.73	23.08	203.24	≤34.47	24.69	294.44	≤36.00	PASS	Default
				Total	17.91	26.32	428.66	≤34.47	27.93	620.87	≤36.00	PASS	Default
		26/8	2462	ANT5	14.42	23.42	219.79	≤34.47	25.03	318.42	≤36.00	PASS	Default
				ANT6	14.30	23.33	215.28	≤34.47	24.94	311.89	≤36.00	PASS	Default
				Total	17.37	26.39	435.06	≤34.47	28	630.96	≤36.00	PASS	Default
	MIMO	52/37	2412	ANT5	13.80	23.01	199.99	≤34.47	24.62	289.73	≤36.00	PASS	Default
				ANT6	13.22	22.77	189.23	≤34.47	24.38	274.16	≤36.00	PASS	Default
				Total	16.53	25.90	389.22	≤34.47	27.51	563.64	≤36.00	PASS	Default
		52/38	2437	ANT5	14.63	23.04	201.37	≤34.47	24.65	291.74	≤36.00	PASS	Default
				ANT6	13.86	22.82	191.43	≤34.47	24.43	277.33	≤36.00	PASS	Default
				Total	17.27	25.94	392.80	≤34.47	27.55	568.85	≤36.00	PASS	Default
		52/40	2462	ANT5	14.22	23.21	209.41	≤34.47	24.82	303.39	≤36.00	PASS	Default
				ANT6	14.25	23.20	208.93	≤34.47	24.81	302.69	≤36.00	PASS	Default
				Total	17.25	26.22	418.34	≤34.47	27.83	606.74	≤36.00	PASS	Default
	MIMO	106/53	2412	ANT5	13.96	23.24	210.86	≤34.47	24.85	305.49	≤36.00	PASS	Default
				ANT6	13.20	22.78	189.67	≤34.47	24.39	274.79	≤36.00	PASS	Default
				Total	16.61	26.03	400.53	≤34.47	27.64	580.76	≤36.00	PASS	Default
		106/53	2437	ANT5	14.97	23.32	214.78	≤34.47	24.93	311.17	≤36.00	PASS	Default
				ANT6	14.64	23.18	207.97	≤34.47	24.79	301.3	≤36.00	PASS	Default
				Total	17.82	26.26	422.75	≤34.47	27.87	612.35	≤36.00	PASS	Default
		106/54	2462	ANT5	14.24	23.17	207.49	≤34.47	24.78	300.61	≤36.00	PASS	Default
				ANT6	14.28	23.22	209.89	≤34.47	24.83	304.09	≤36.00	PASS	Default
				Total	17.27	26.21	417.39	≤34.47	27.82	605.34	≤36.00	PASS	Default
	MIMO	FULL	2412	ANT5	13.88	23.04	201.37	≤34.47	24.65	291.74	≤36.00	PASS	Default
				ANT6	13.22	22.76	188.80	≤34.47	24.37	273.53	≤36.00	PASS	Default
				Total	16.57	25.91	390.17	≤34.47	27.52	564.94	≤36.00	PASS	Default
		FULL	2437	ANT5	14.91	23.36	216.77	≤34.47	24.97	314.05	≤36.00	PASS	Default
				ANT6	14.62	23.08	203.24	≤34.47	24.69	294.44	≤36.00	PASS	Default
				Total	16.62	26.22	419.01	≤34.47	27.83	609.49	≤36.00	PASS	Default



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Reference No.: PSU-QSU2312140113RF10

11AX40	MIMO	FULL		Total	17.78	26.23	420.01	≤34.47	27.84	608.14	≤36.00	PASS	Default
			2462	ANT5	14.30	23.23	210.38	≤34.47	24.84	304.79	≤36.00	PASS	Default
				ANT6	14.29	23.22	209.89	≤34.47	24.83	304.09	≤36.00	PASS	Default
				Total	17.31	26.24	420.27	≤34.47	27.85	609.54	≤36.00	PASS	Default
		26/0	2422	ANT5	13.76	23.24	210.86	≤34.47	24.85	305.49	≤36.00	PASS	Default
				ANT6	13.25	22.82	191.43	≤34.47	24.43	277.33	≤36.00	PASS	Default
				Total	16.52	26.05	402.29	≤34.47	27.66	583.45	≤36.00	PASS	Default
		26/4	2437	ANT5	14.08	23.23	210.38	≤34.47	24.84	304.79	≤36.00	PASS	Default
				ANT6	14.28	23.42	219.79	≤34.47	25.03	318.42	≤36.00	PASS	Default
				Total	17.19	26.34	430.16	≤34.47	27.95	623.73	≤36.00	PASS	Default
		26/8	2452	ANT5	14.38	23.47	222.33	≤34.47	25.08	322.11	≤36.00	PASS	Default
				ANT6	13.97	22.98	198.61	≤34.47	24.59	287.74	≤36.00	PASS	Default
				Total	17.19	26.24	420.94	≤34.47	27.85	609.54	≤36.00	PASS	Default

Note: The Average power with duty cycle factor.

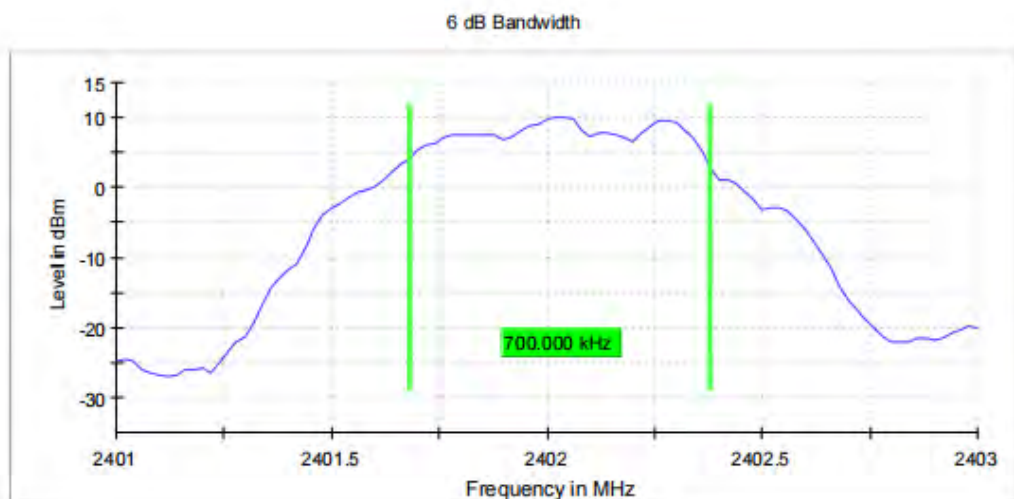
APPENDIX 2: BLE

DTS BANDWIDTH

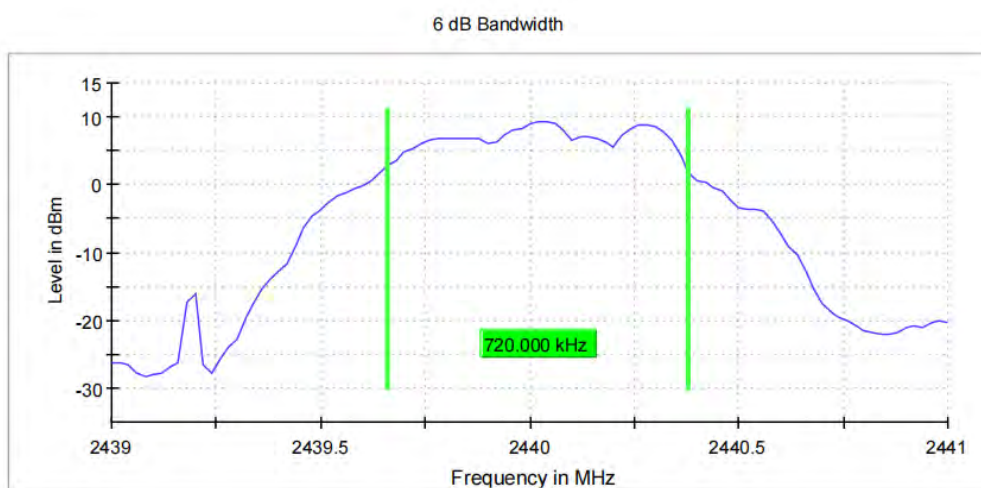
TEST RESULT

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant5	2402	0.700	2401.680	2402.380	0.5	PASS
		2440	0.720	2439.660	2440.380	0.5	PASS
		2480	0.720	2479.660	2480.380	0.5	PASS
BLE_2M	Ant5	2404	0.680	2403.640	2404.320	0.5	PASS
		2440	0.680	2439.640	2440.320	0.5	PASS
		2478	0.680	2477.640	2478.320	0.5	PASS
BLE_S2	Ant5	2402	0.680	2401.680	2402.360	0.5	PASS
		2440	0.700	2439.680	2440.380	0.5	PASS
		2480	0.680	2479.680	2480.360	0.5	PASS
BLE_S8	Ant5	2402	0.680	2401.680	2402.360	0.5	PASS
		2440	0.660	2439.700	2440.360	0.5	PASS
		2480	0.680	2479.680	2480.360	0.5	PASS

TEST GRAPHS

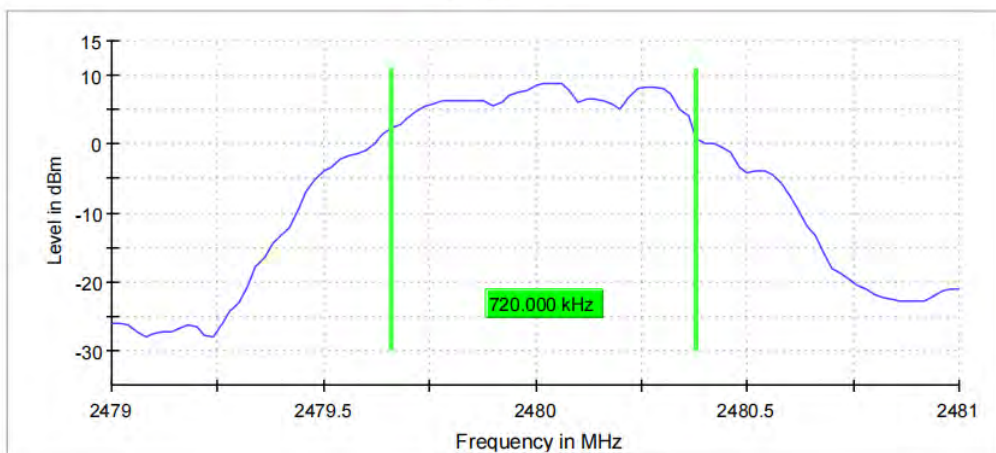


BLE_1M_Ant5_2402



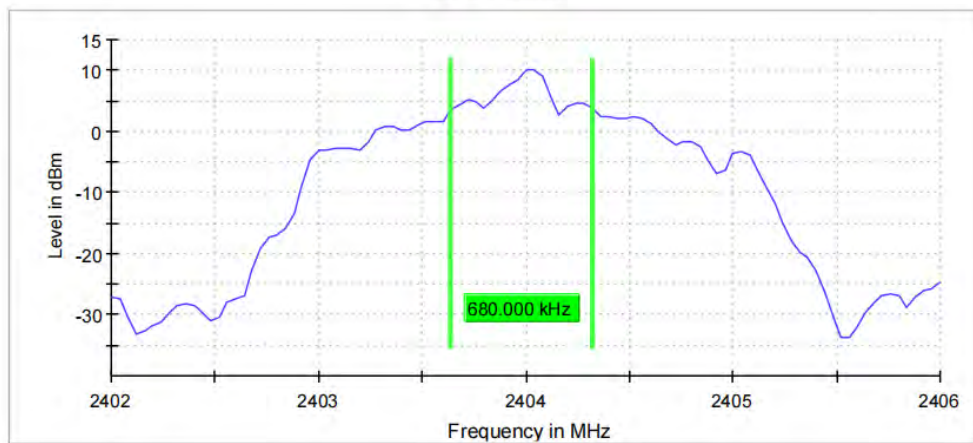
BLE_1M_Ant5_2440

6 dB Bandwidth



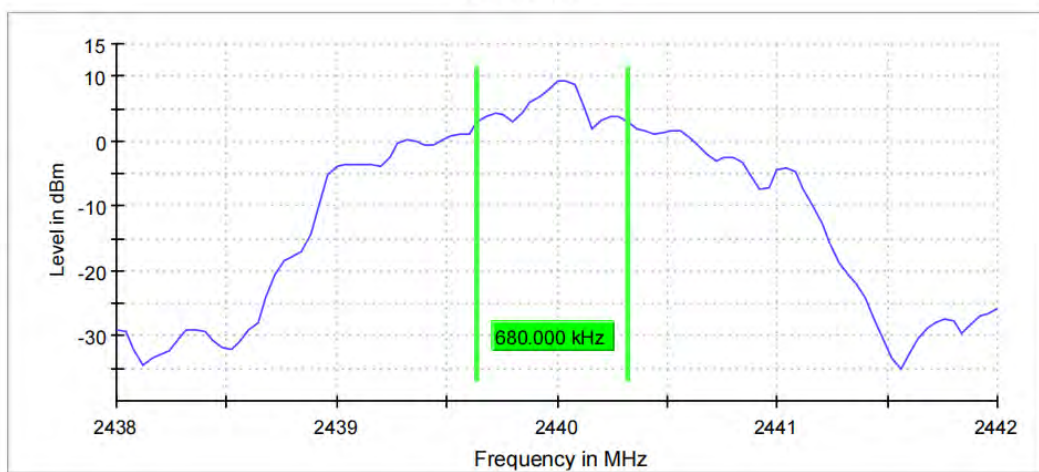
BLE 1M Ant5 2480

6 dB Bandwidth



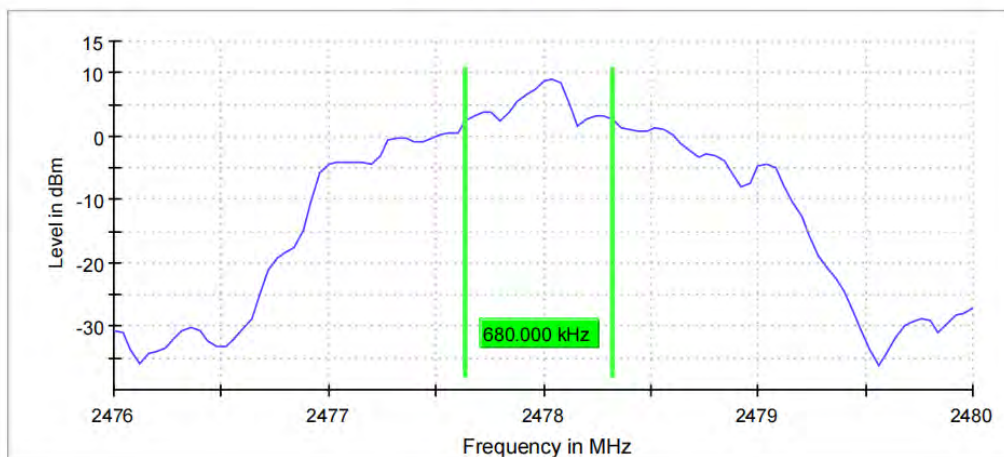
BLE 2M Ant5 2404

6 dB Bandwidth



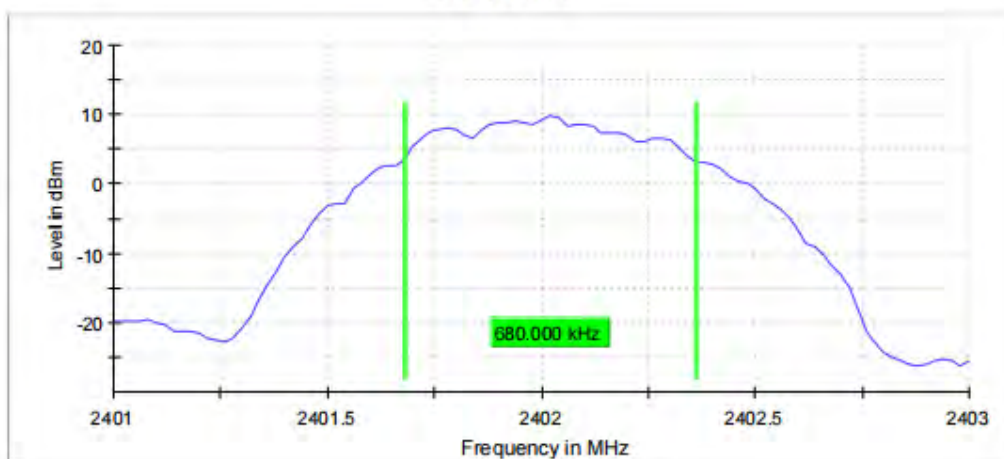
BLE 2M Ant5 2440

6 dB Bandwidth



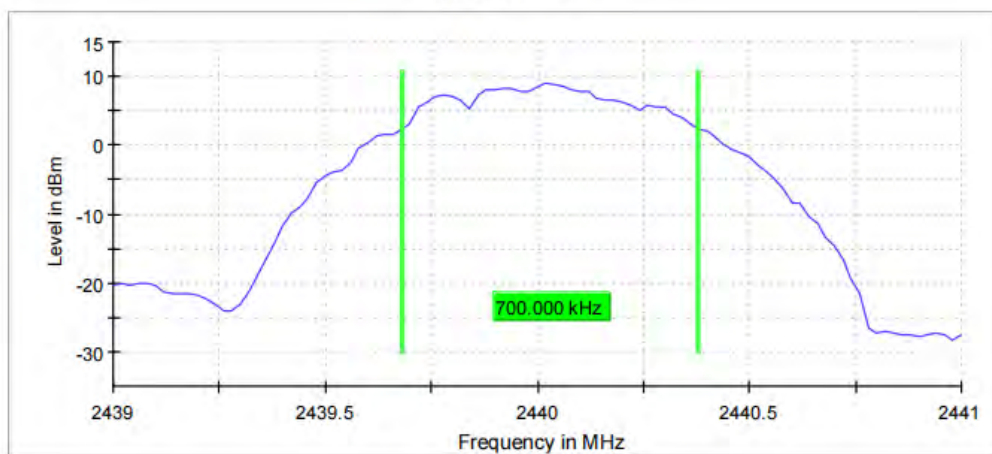
BLE 2M Ant5 2478

6 dB Bandwidth



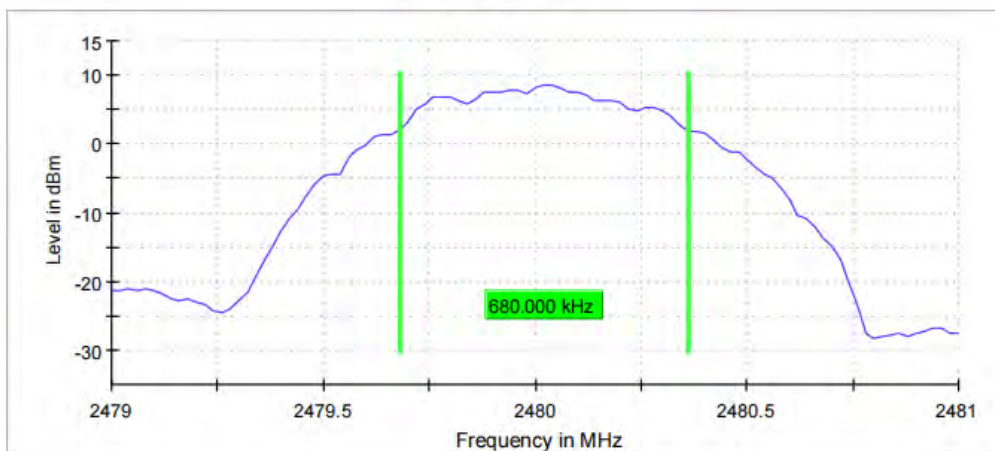
BLE S2 Ant5 2402

6 dB Bandwidth



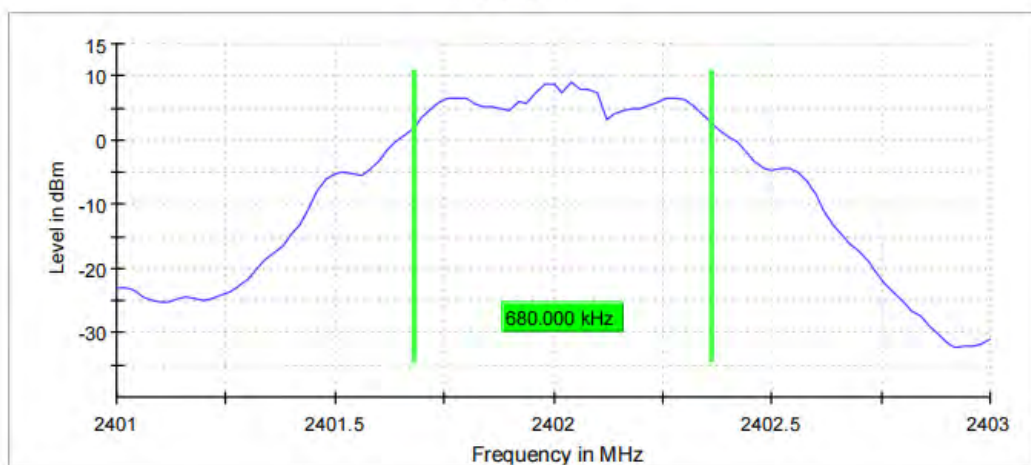
BLE S2 Ant5 2440

6 dB Bandwidth



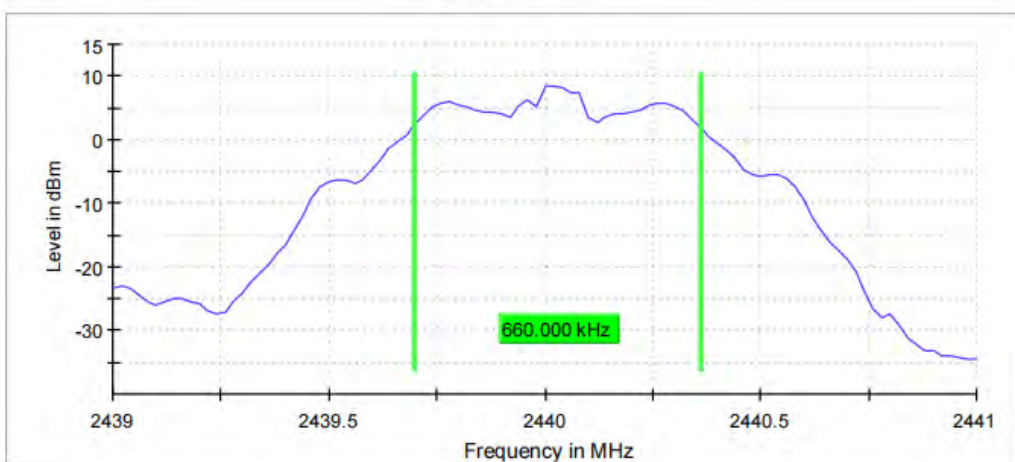
BLE S2 Ant5 2480

6 dB Bandwidth



BLE S8 Ant5 2402

6 dB Bandwidth

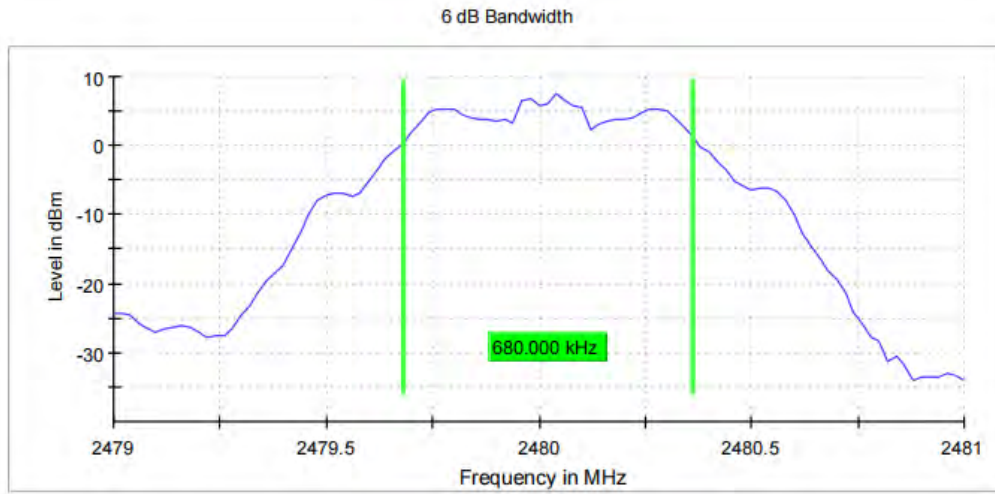


BLE S8 Ant5 2440



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BLE_S8_Ant5_2480

RBW 100.000 kHz

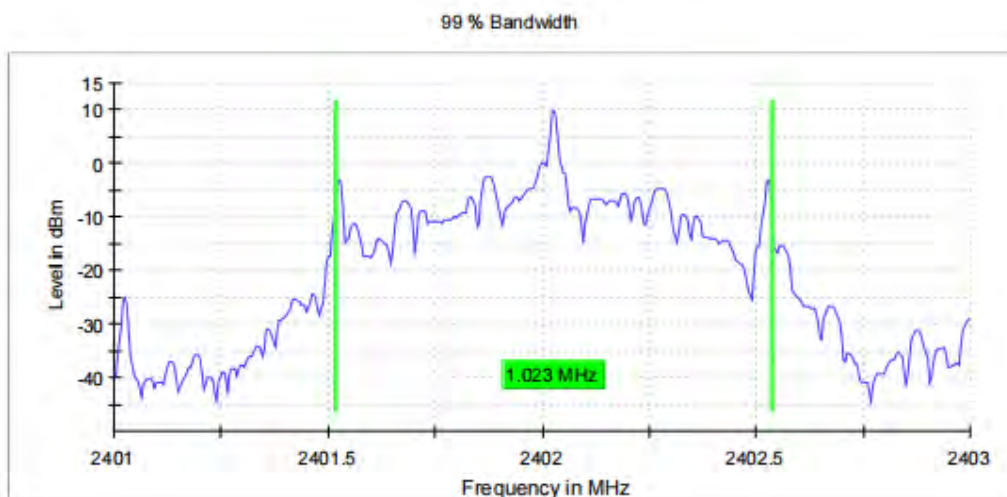
VBW 300.000 kHz

OCCUPIED CHANNEL BANDWIDTH

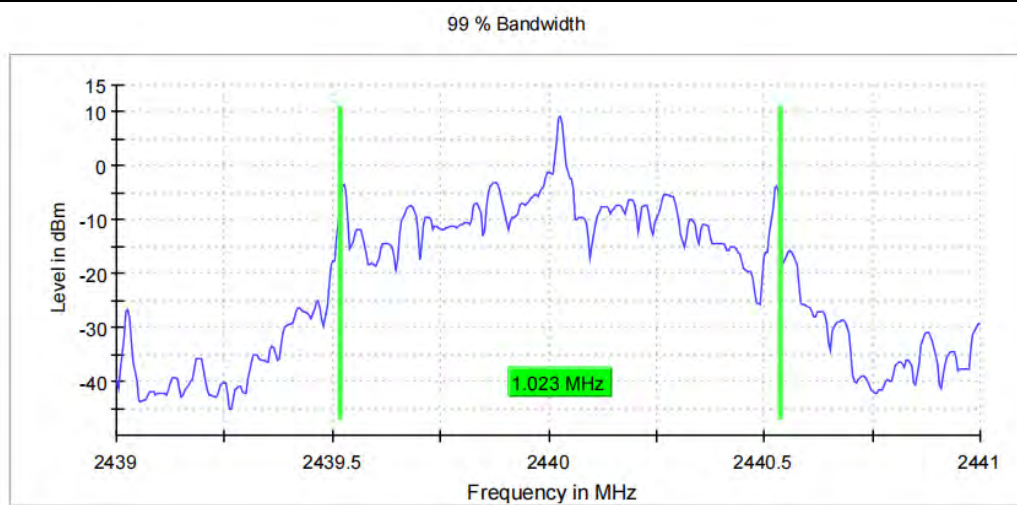
TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant5	2402	1.023	2401.516	2402.539	---	PASS
		2440	1.023	2439.516	2440.539	---	PASS
		2480	1.023	2479.516	2480.539	---	PASS
BLE_2M	Ant5	2404	2.035	2403.013	2405.048	---	PASS
		2440	2.035	2439.013	2441.048	---	PASS
		2478	2.035	2477.013	2479.048	---	PASS
BLE_S2	Ant5	2402	1.038	2401.516	2402.554	---	PASS
		2440	1.018	2439.526	2440.544	---	PASS
		2480	1.018	2479.526	2480.544	---	PASS
BLE_S8	Ant5	2402	1.058	2401.496	2402.554	---	PASS
		2440	1.048	2439.506	2440.554	---	PASS
		2480	1.048	2479.506	2480.554	---	PASS

TEST GRAPHS

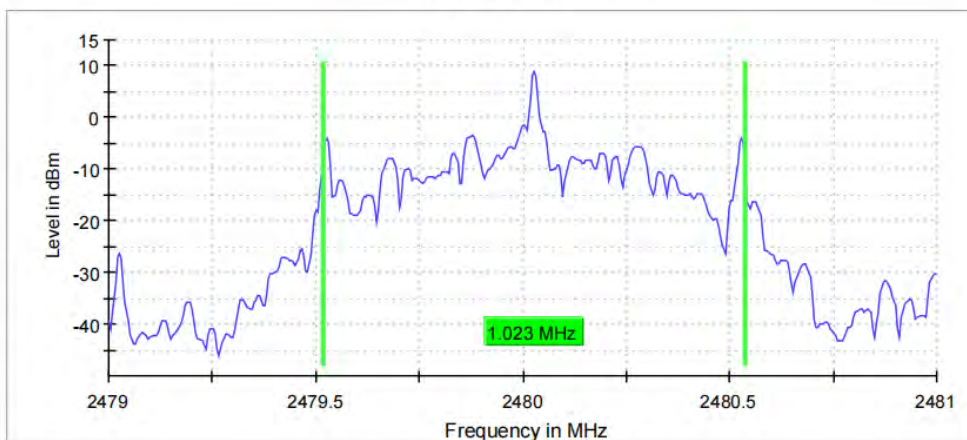


BLE 1M Ant5 2402



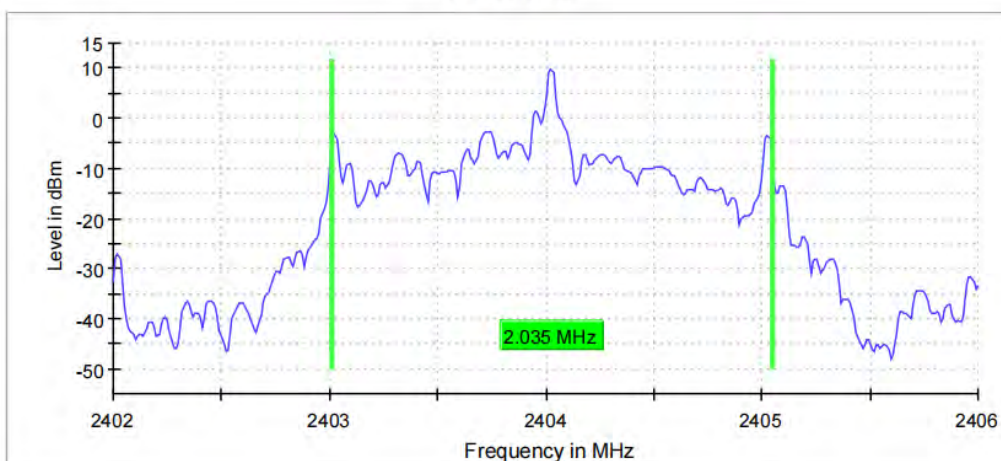
BLE 1M Ant5 2440

99 % Bandwidth



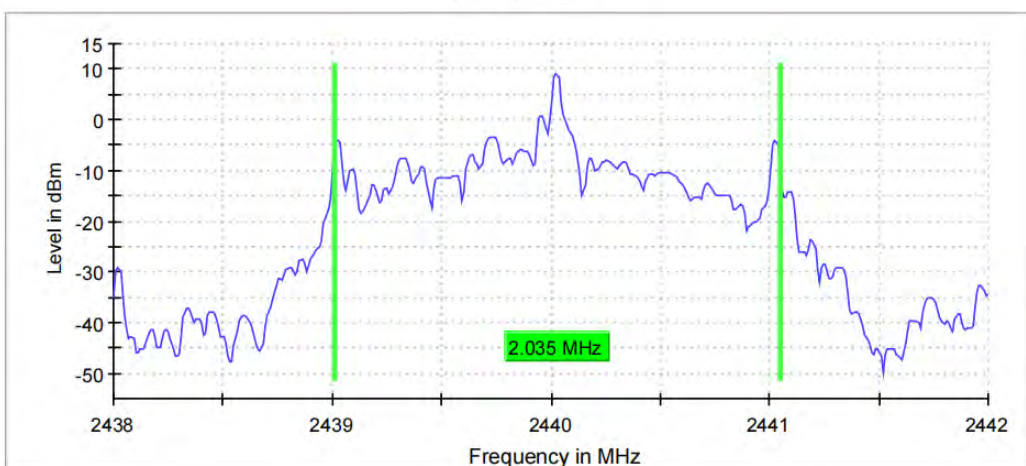
BLE 1M Ant5 2480

99 % Bandwidth



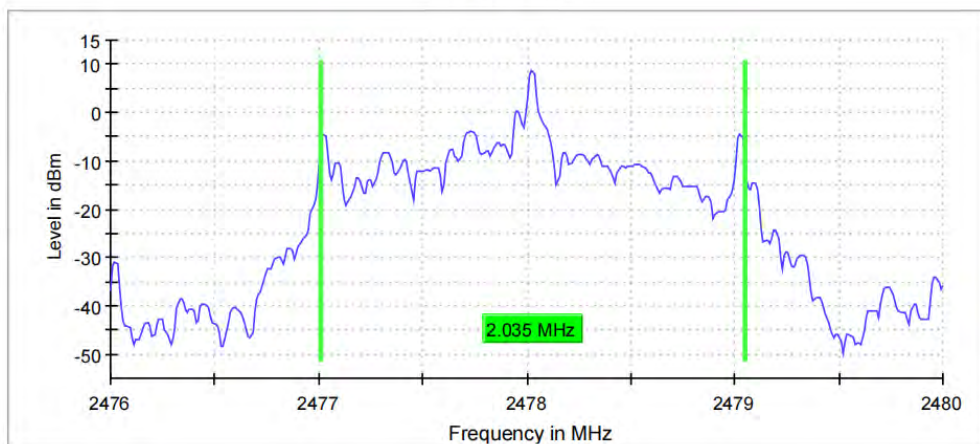
BLE 2M Ant5 2404

99 % Bandwidth



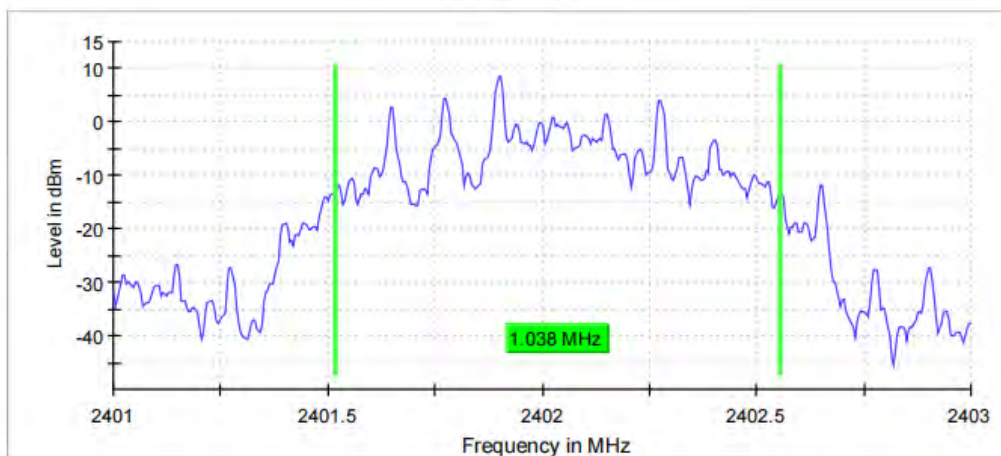
BLE 2M Ant5 2440

99 % Bandwidth



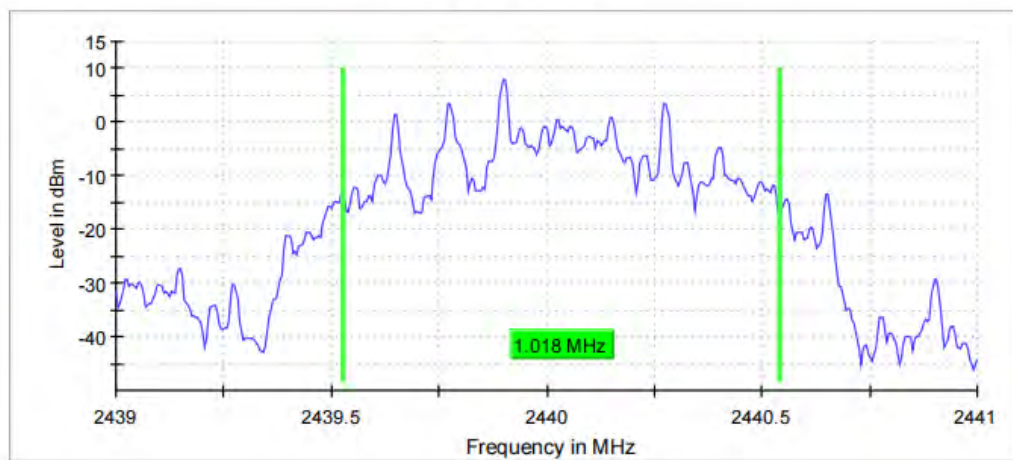
BLE 2M Ant5 2478

99 % Bandwidth

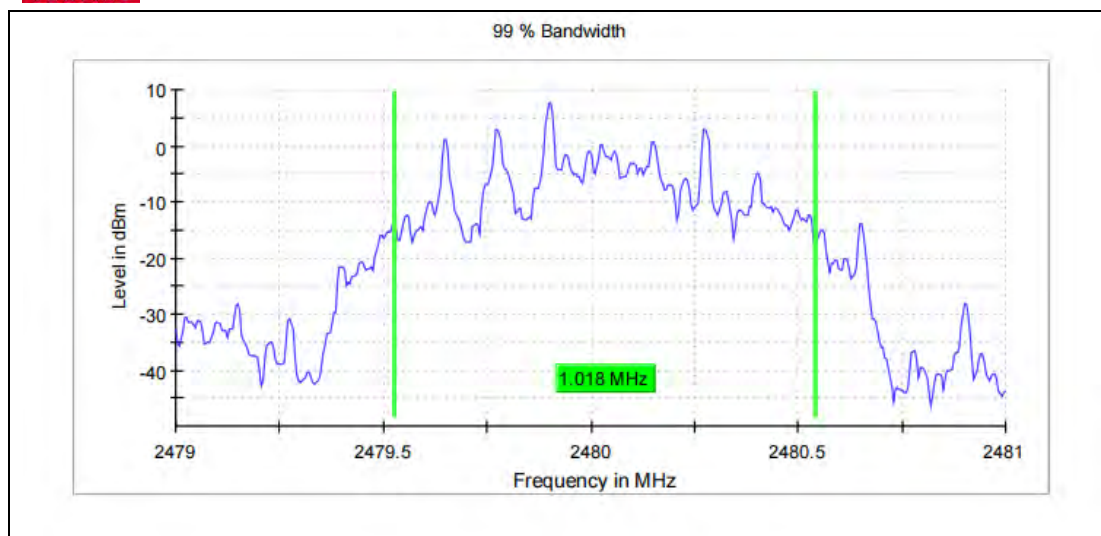


BLE S2 Ant5 2402

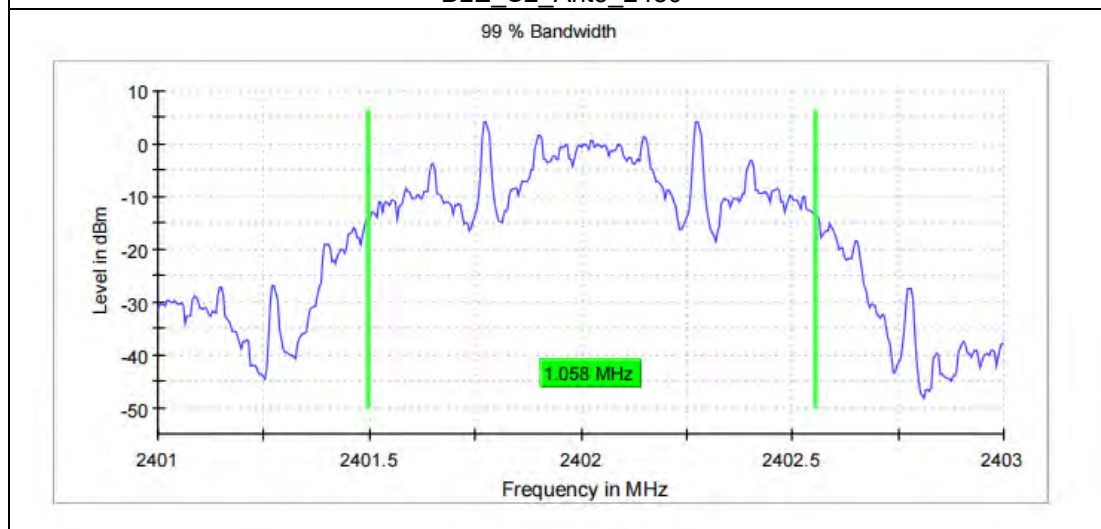
99 % Bandwidth



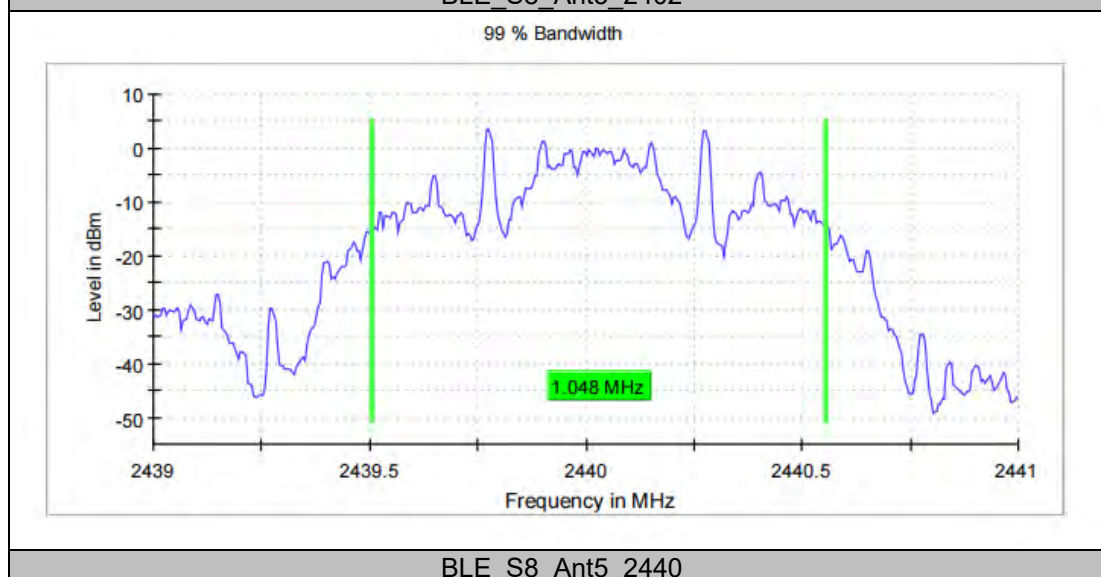
BLE S2 Ant5 2440

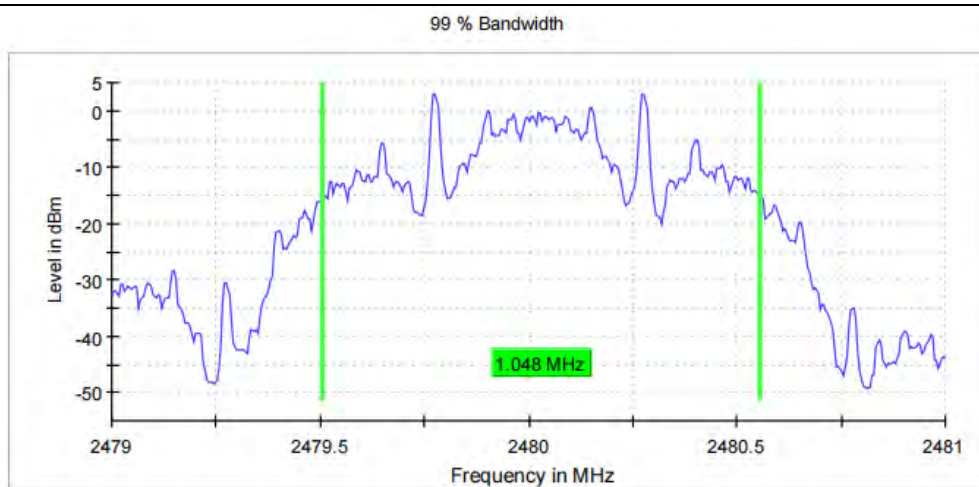


BLE_S2_Ant5_2480



BLE_S8_Ant5_2402





BLE_S8_Ant5_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

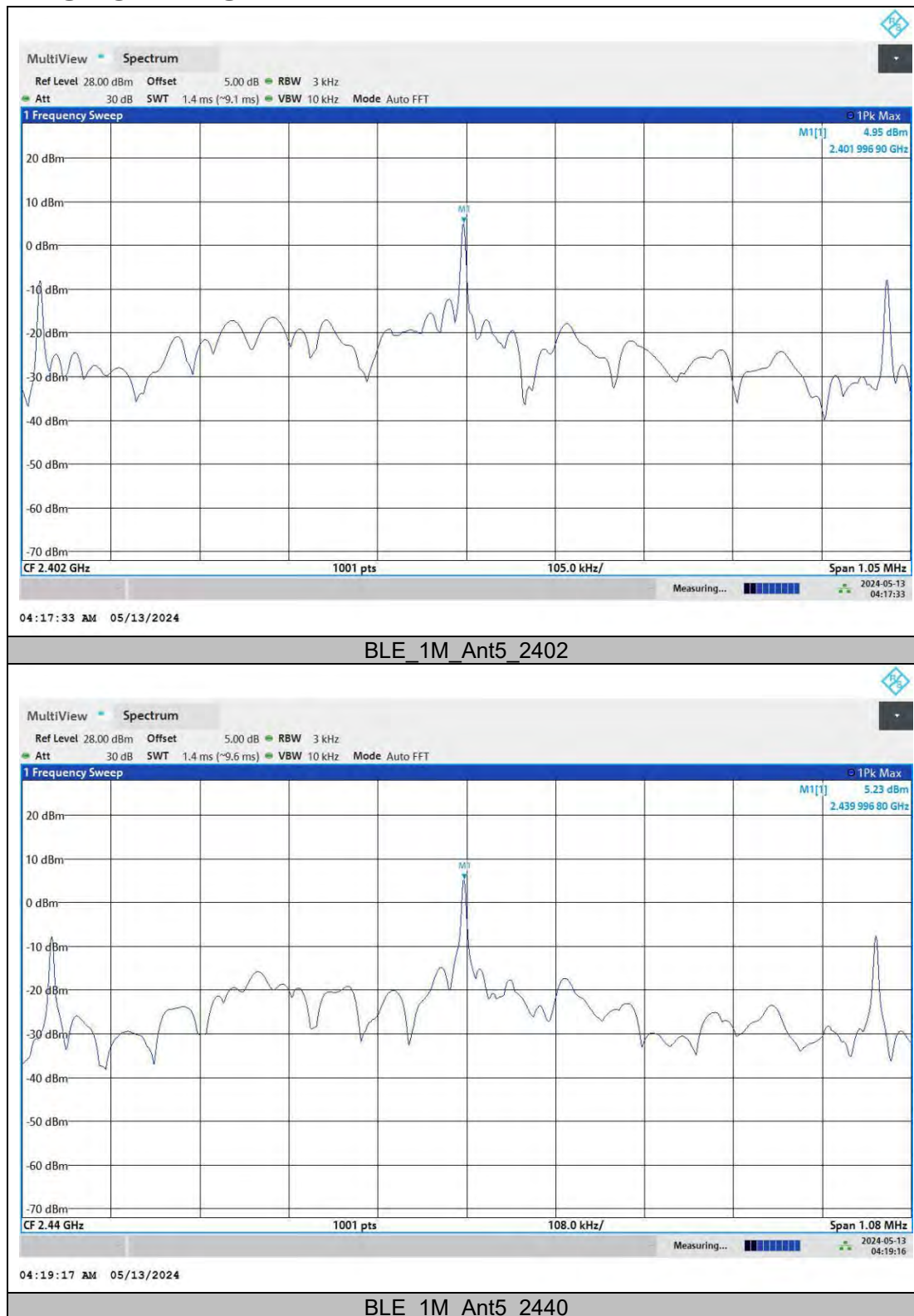
TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant5	2402	8.84	9.98	9.95	≤30	PASS	Default
		2440	8.28	9.45	8.81	≤30	PASS	Default
		2480	7.76	8.99	7.93	≤30	PASS	Default
BLE_2M	Ant5	2404	11.03	11.59	14.42	≤30	PASS	Default
		2440	11.23	11.78	15.08	≤30	PASS	Default
		2478	10.82	11.38	13.72	≤30	PASS	Default
BLE_125k	Ant5	2402	8.32	9.87	9.71	≤30	PASS	Default
		2440	7.75	9.37	8.65	≤30	PASS	Default
		2480	7.35	9.00	7.94	≤30	PASS	Default
BLE_500K	Ant5	2402	9.16	10.03	10.08	≤30	PASS	Default
		2440	8.52	9.42	8.75	≤30	PASS	Default
		2480	8.12	9.04	8.02	≤30	PASS	Default

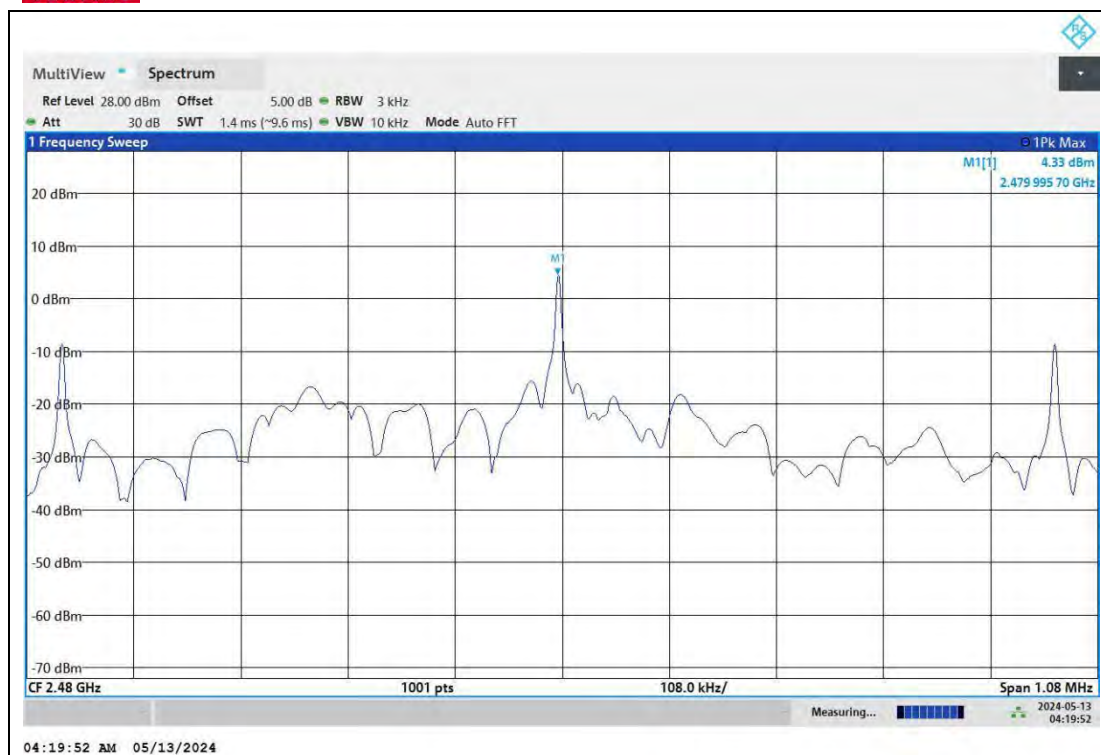
MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

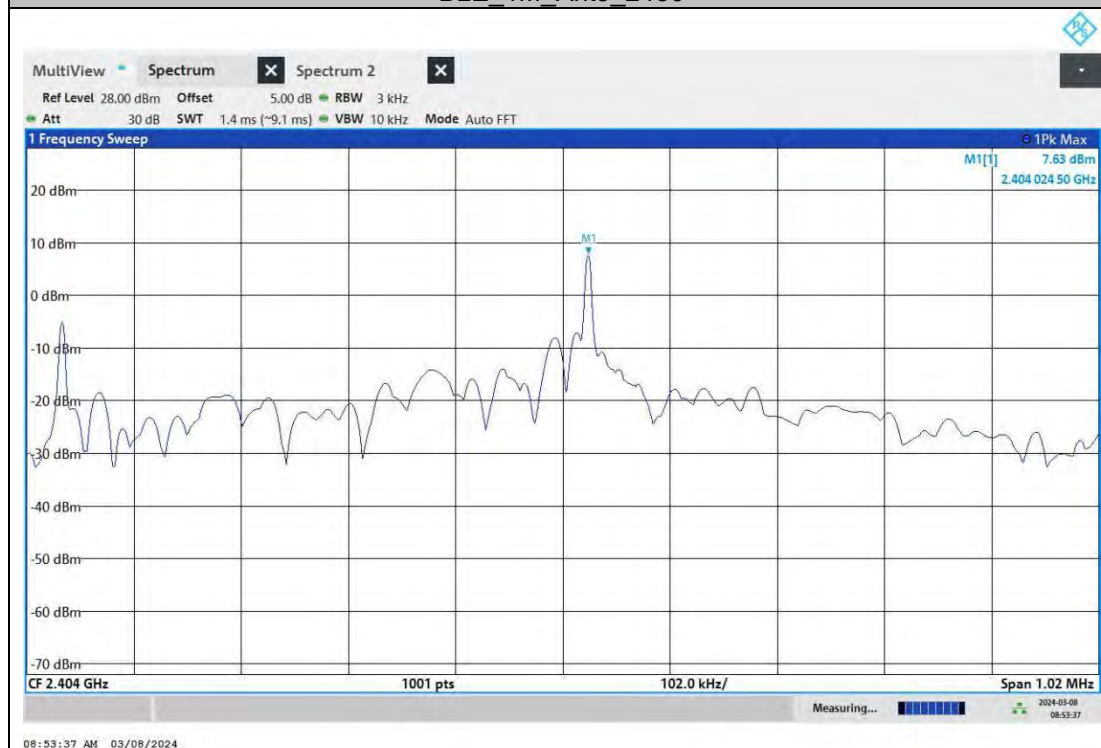
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant5	2402	4.95	≤8	PASS
		2440	5.23	≤8	PASS
		2480	4.33	≤8	PASS
BLE_2M	Ant5	2404	7.63	≤8	PASS
		2440	7.23	≤8	PASS
		2478	6.32	≤8	PASS
BLE_S2	Ant5	2402	7.47	≤8	PASS
		2440	6.91	≤8	PASS
		2480	6.51	≤8	PASS
BLE_S8	Ant5	2402	3.02	≤8	PASS
		2440	2.33	≤8	PASS
		2480	1.79	≤8	PASS

TEST GRAPHS





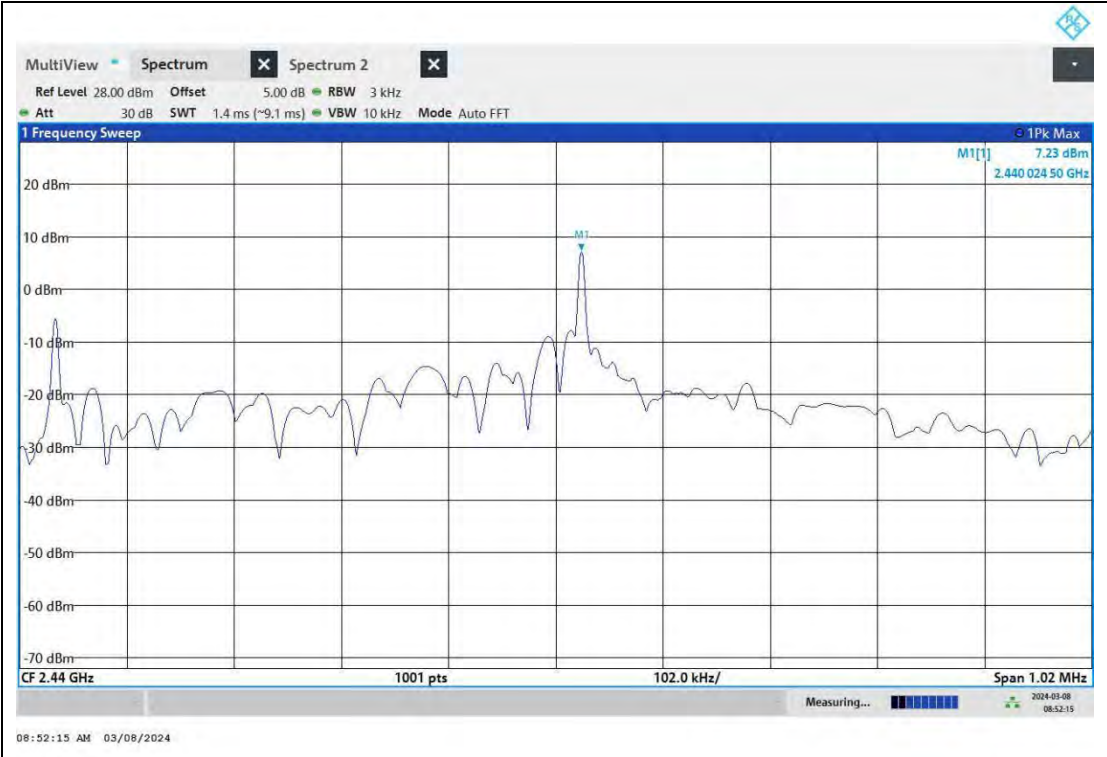
BLE_1M_Ant5_2480



BLE_2M_Ant5_2404



Reference No.: PSU-QSU2312140113RF10



BLE 2M Ant5 2440



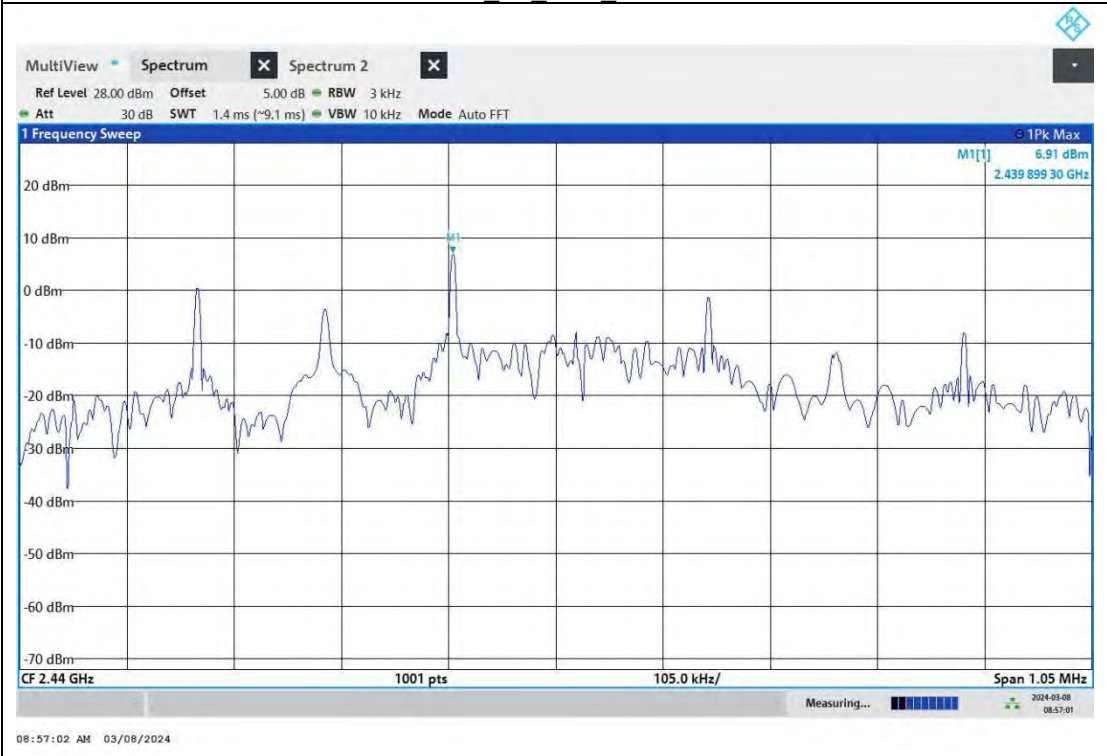
BLE 2M Ant5 2478



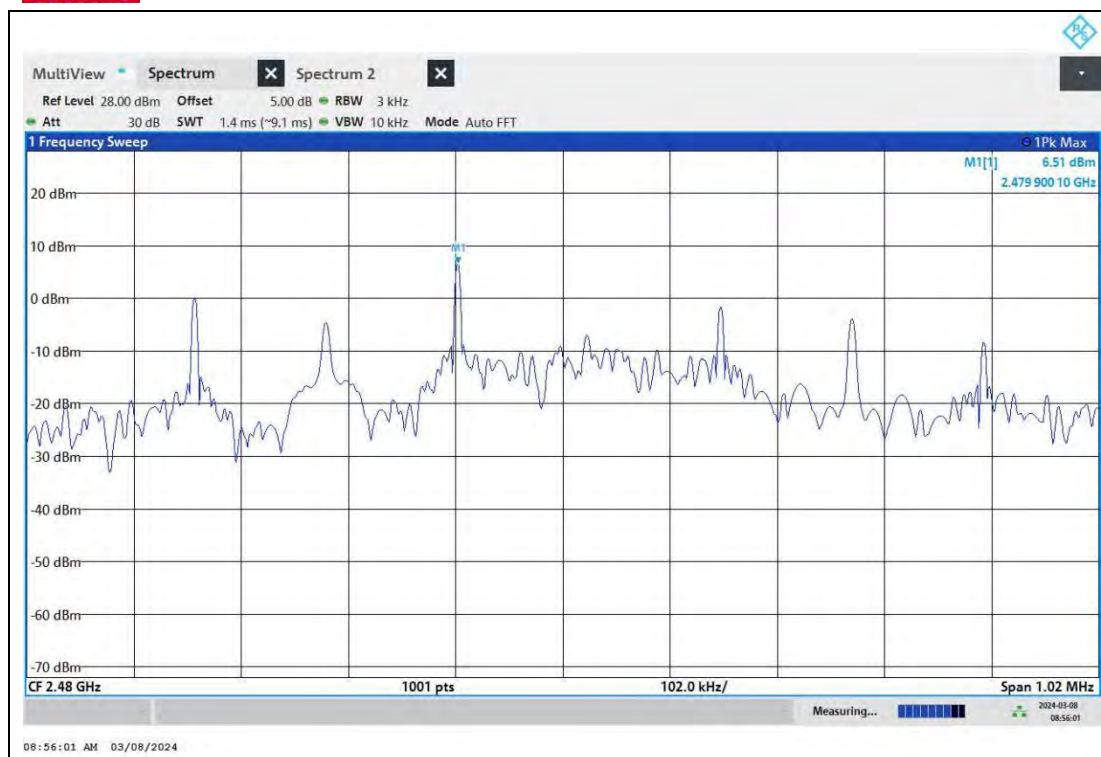
Reference No.: PSU-QSU2312140113RF10



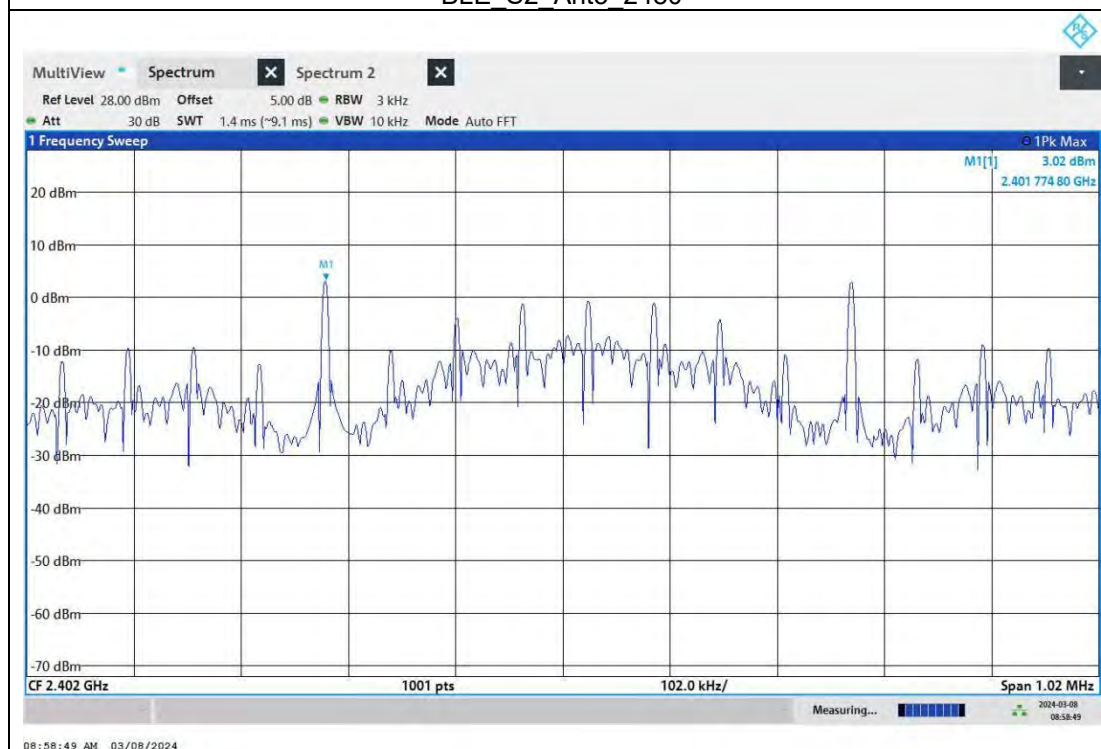
BLE S2 Ant5_2402



BLE S2 Ant5_2440



BLE S2 Ant5_2480

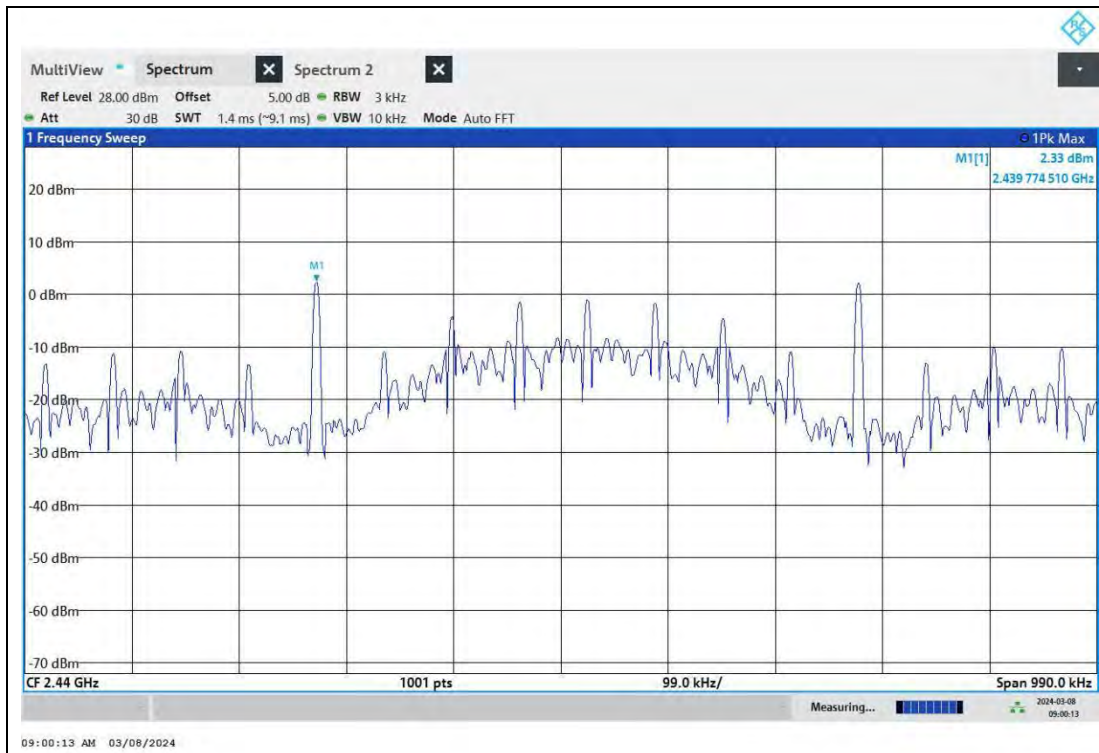


BLE S8 Ant5_2402

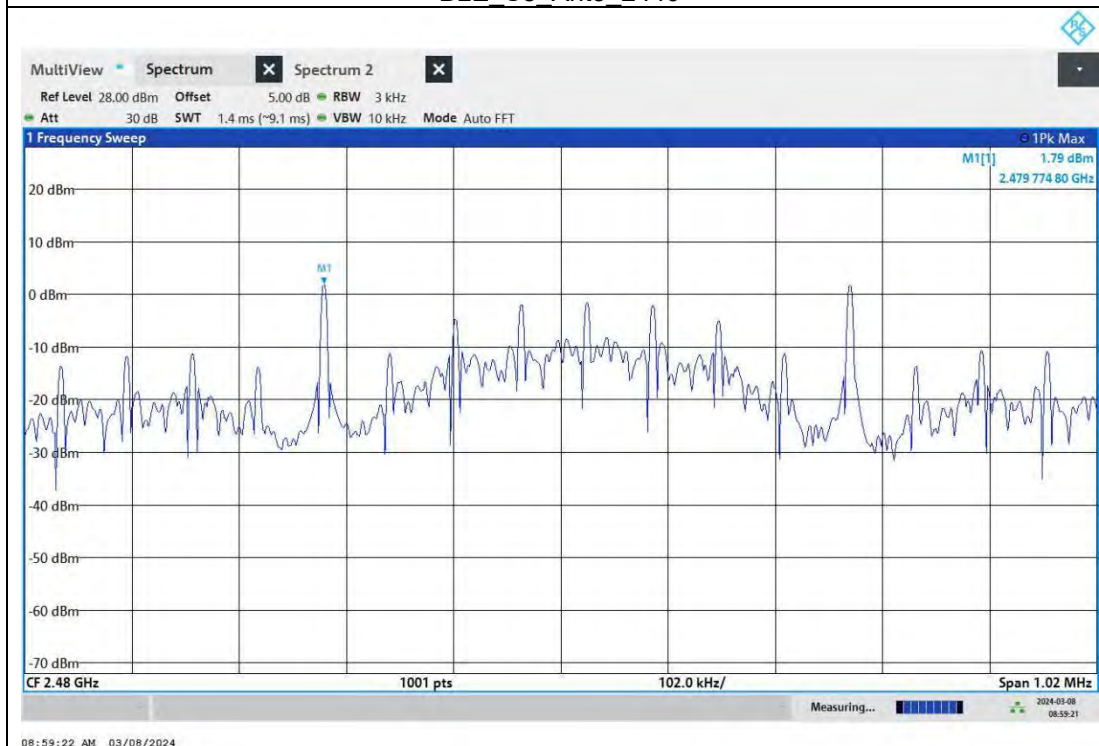


BUREAU
VERITAS

Reference No.: PSU-QSU2312140113RF10



BLE S8 Ant5 2440



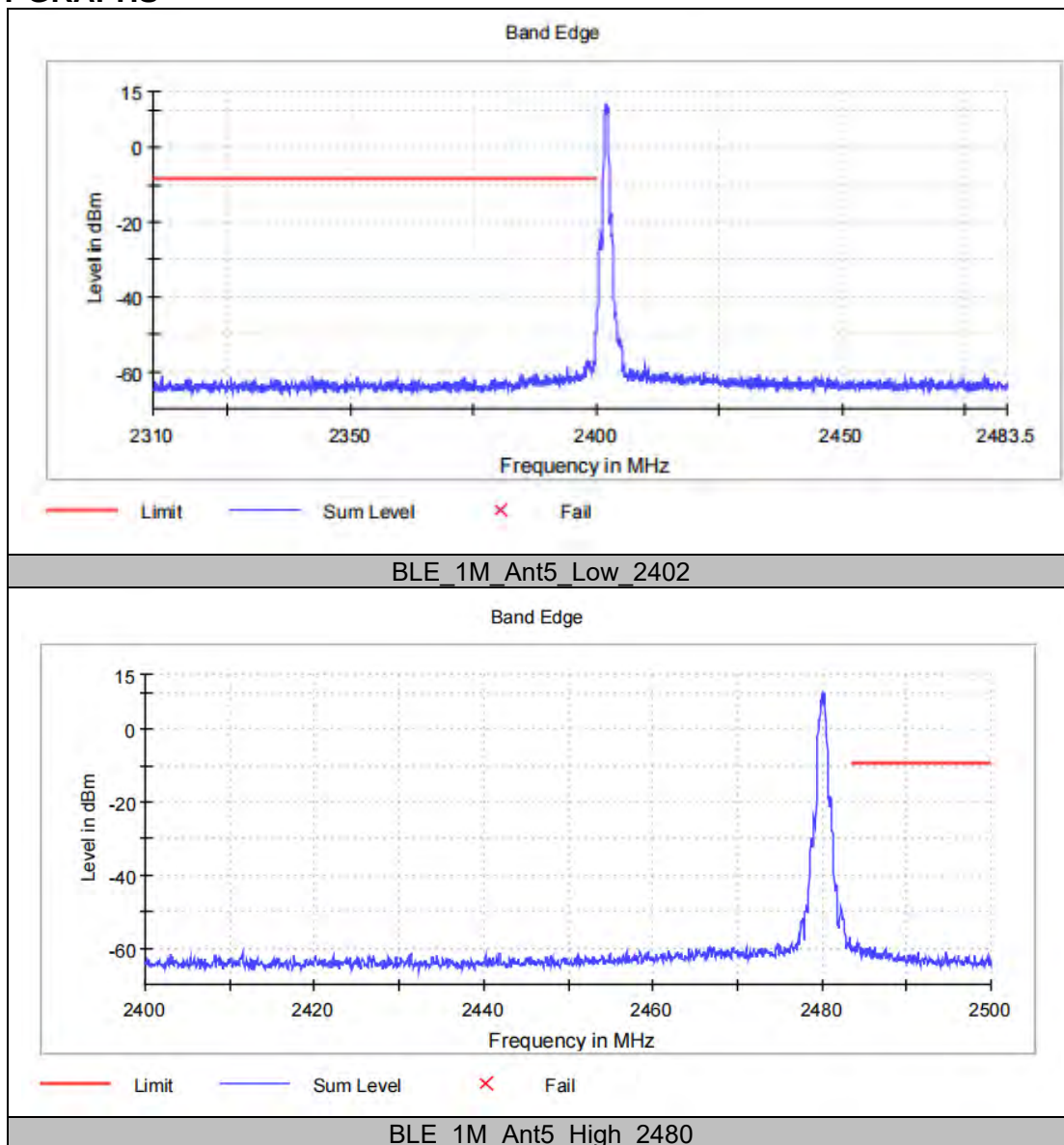
BLE S8 Ant5 2480

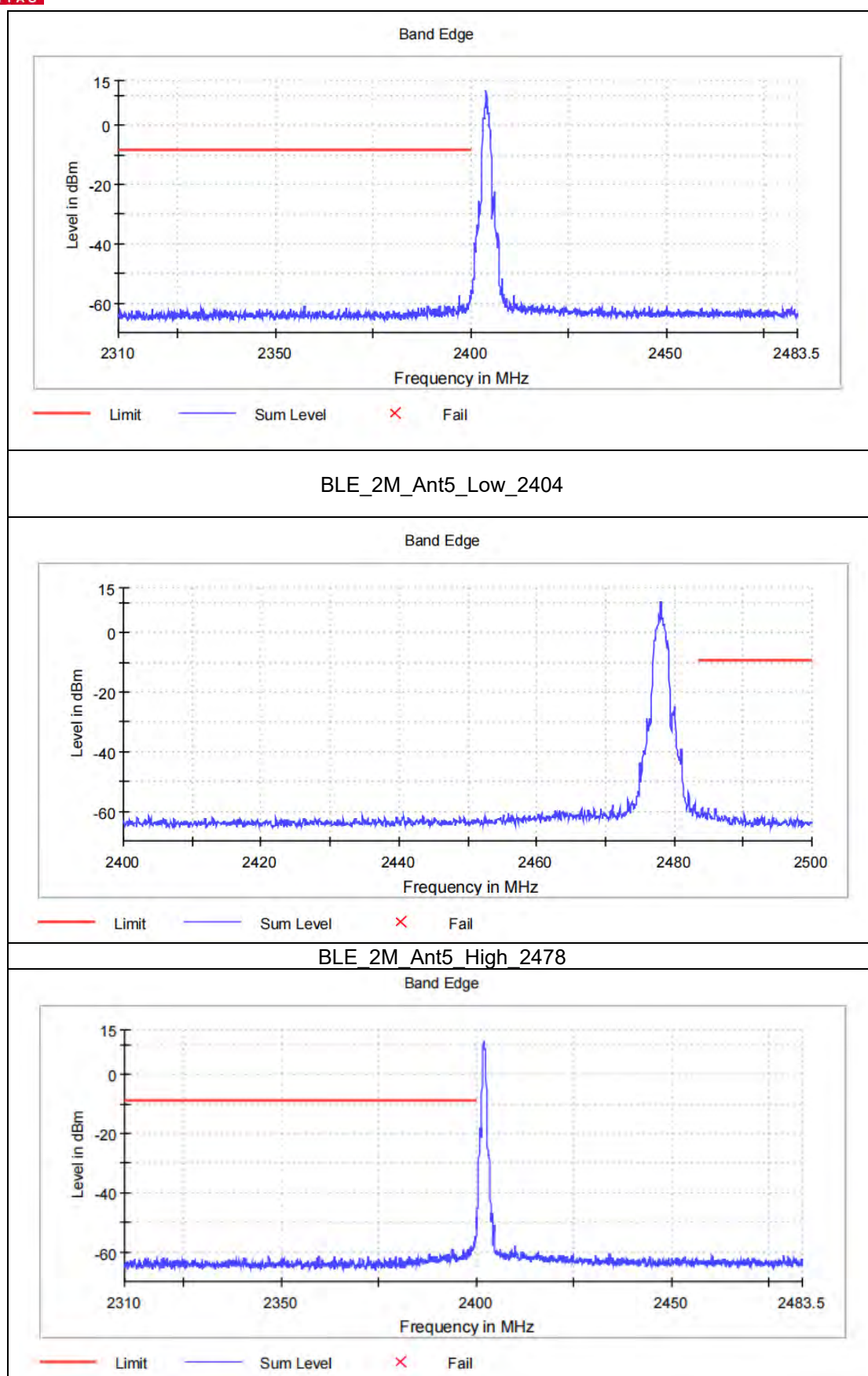
BAND EDGE MEASUREMENTS

TEST RESULT

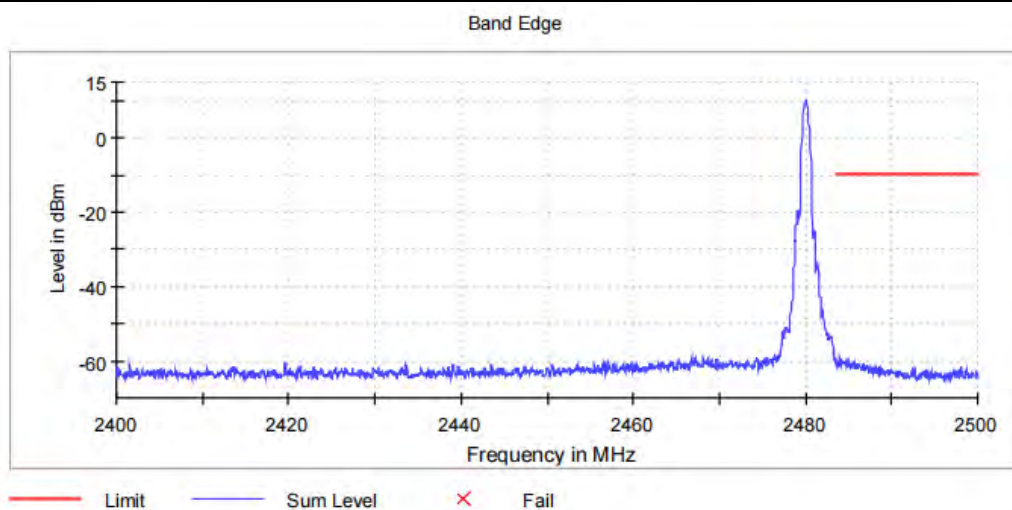
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant5	Low	2402	See test graph	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	See test graph	PASS
BLE_2M	Ant5	Low	2404	See test graph	See test graph	See test graph	PASS
		High	2478	See test graph	See test graph	See test graph	PASS
BLE_S2	Ant5	Low	2402	See test graph	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	See test graph	PASS
BLE_S8	Ant5	Low	2402	See test graph	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	See test graph	PASS

TEST GRAPHS

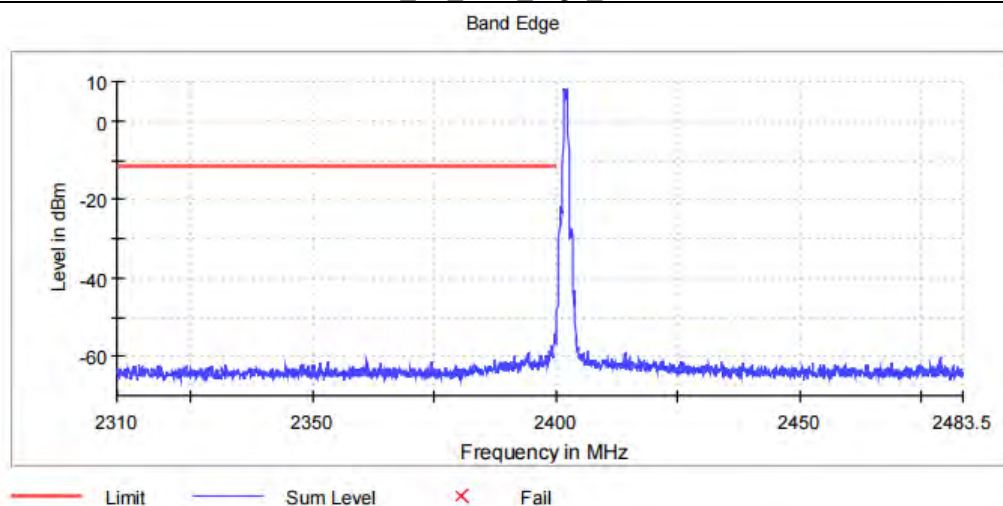




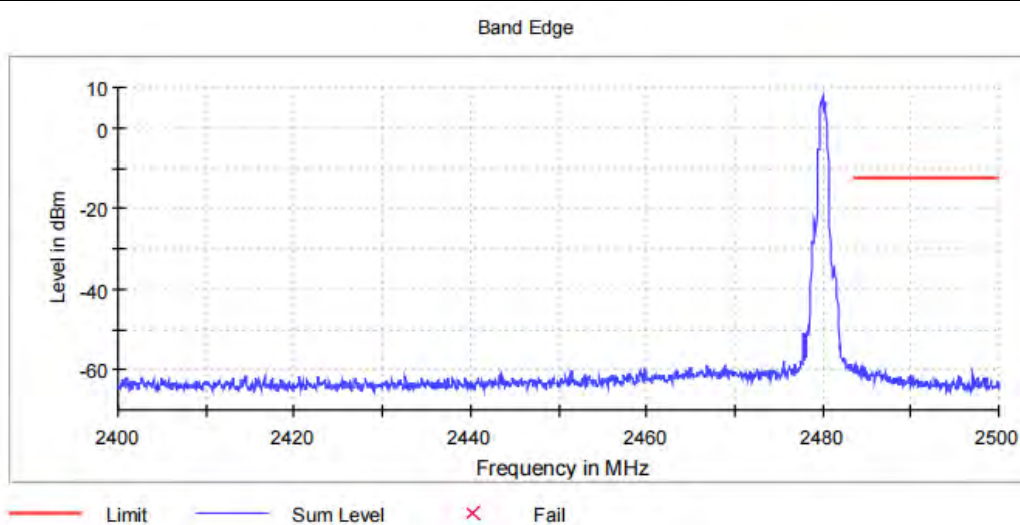
BLE_S2_Ant5_Low_2402



BLE_S2_Ant5_High_2480



BLE_S8_Ant5_Low_2402



BLE_S8_Ant5_High_2480



Reference No.: PSU-QSU2312140113RF10

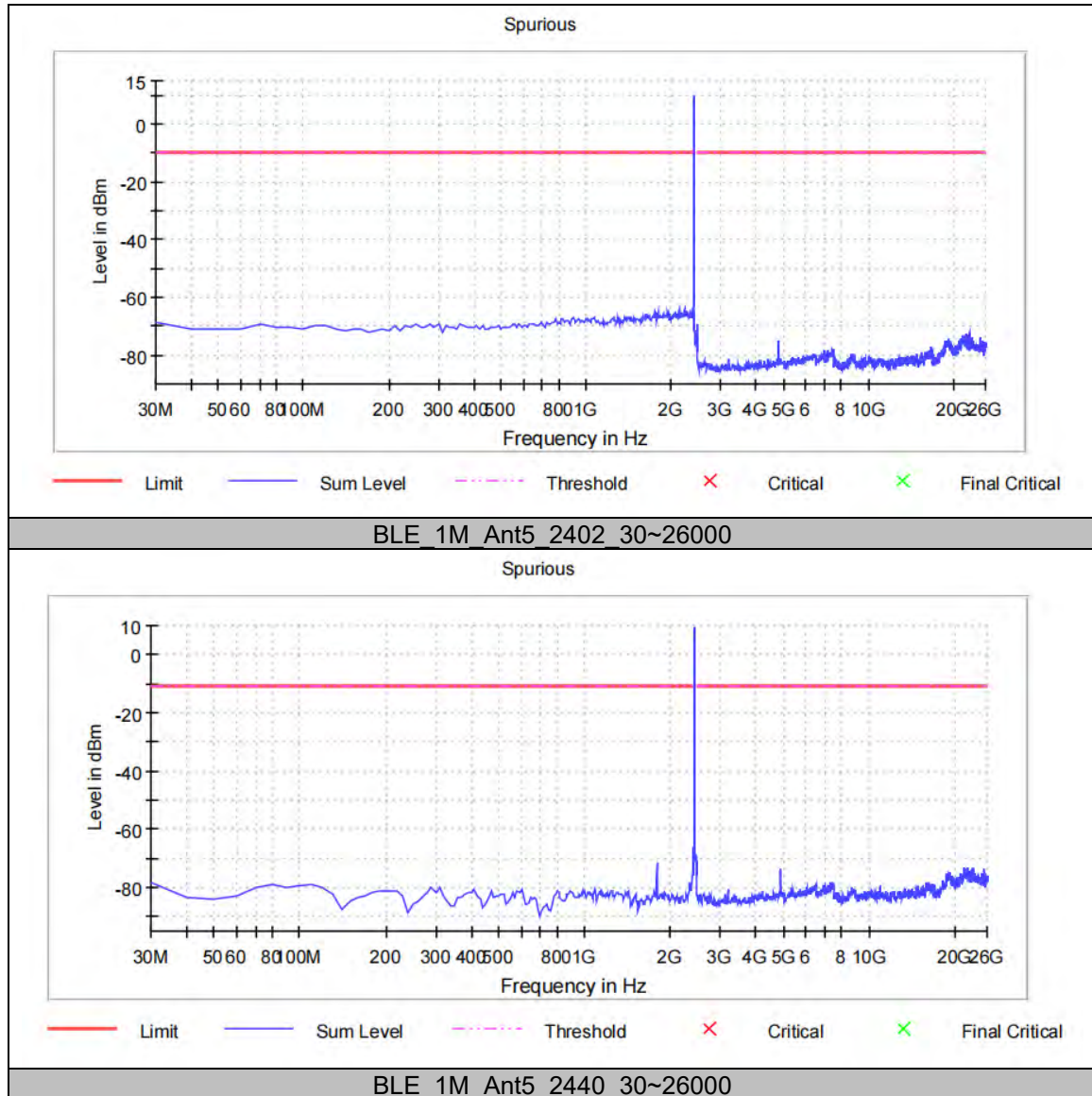
RBW 100.000 kHz
VBW 300.000 kHz

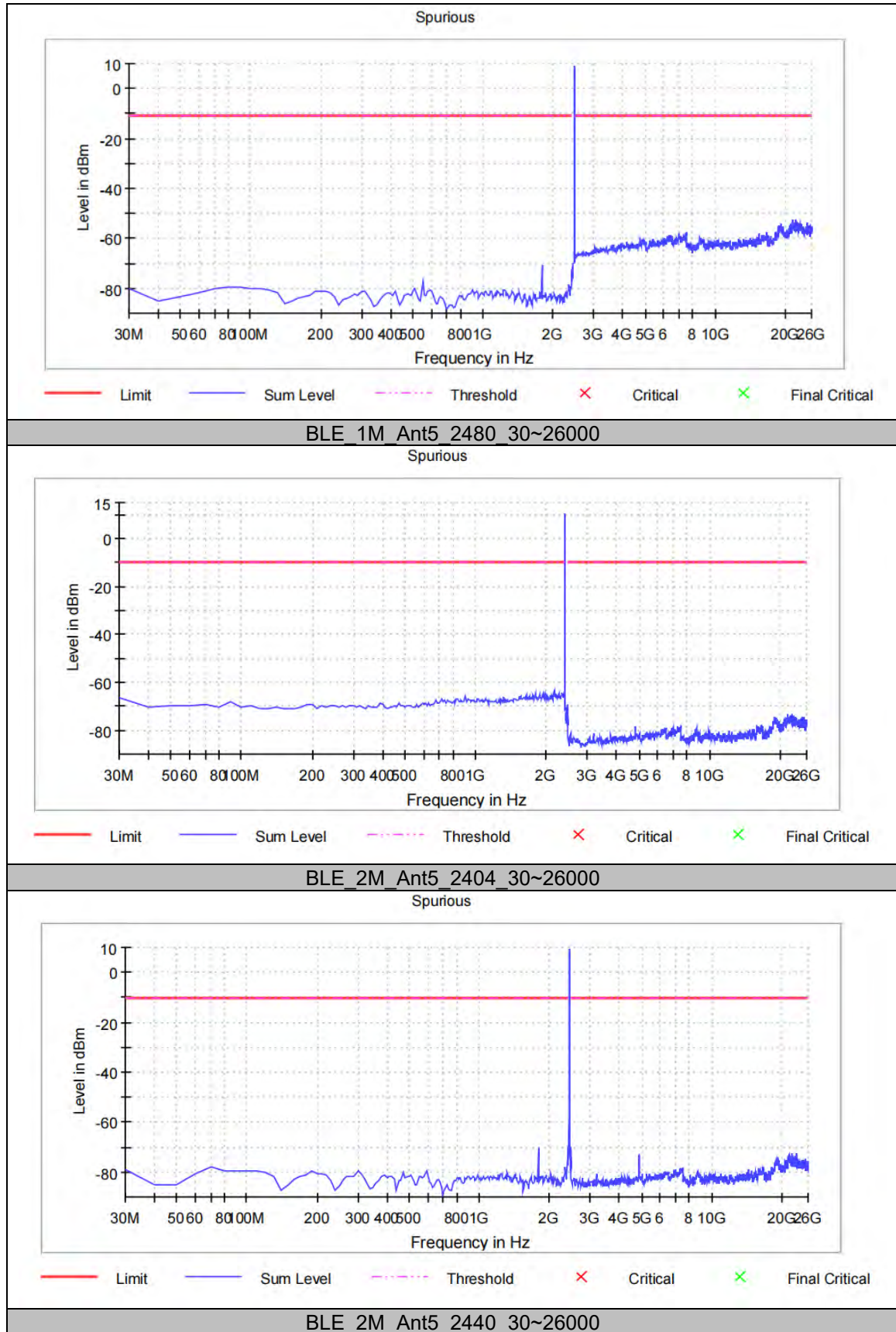
CONDUCTED SPURIOUS EMISSION

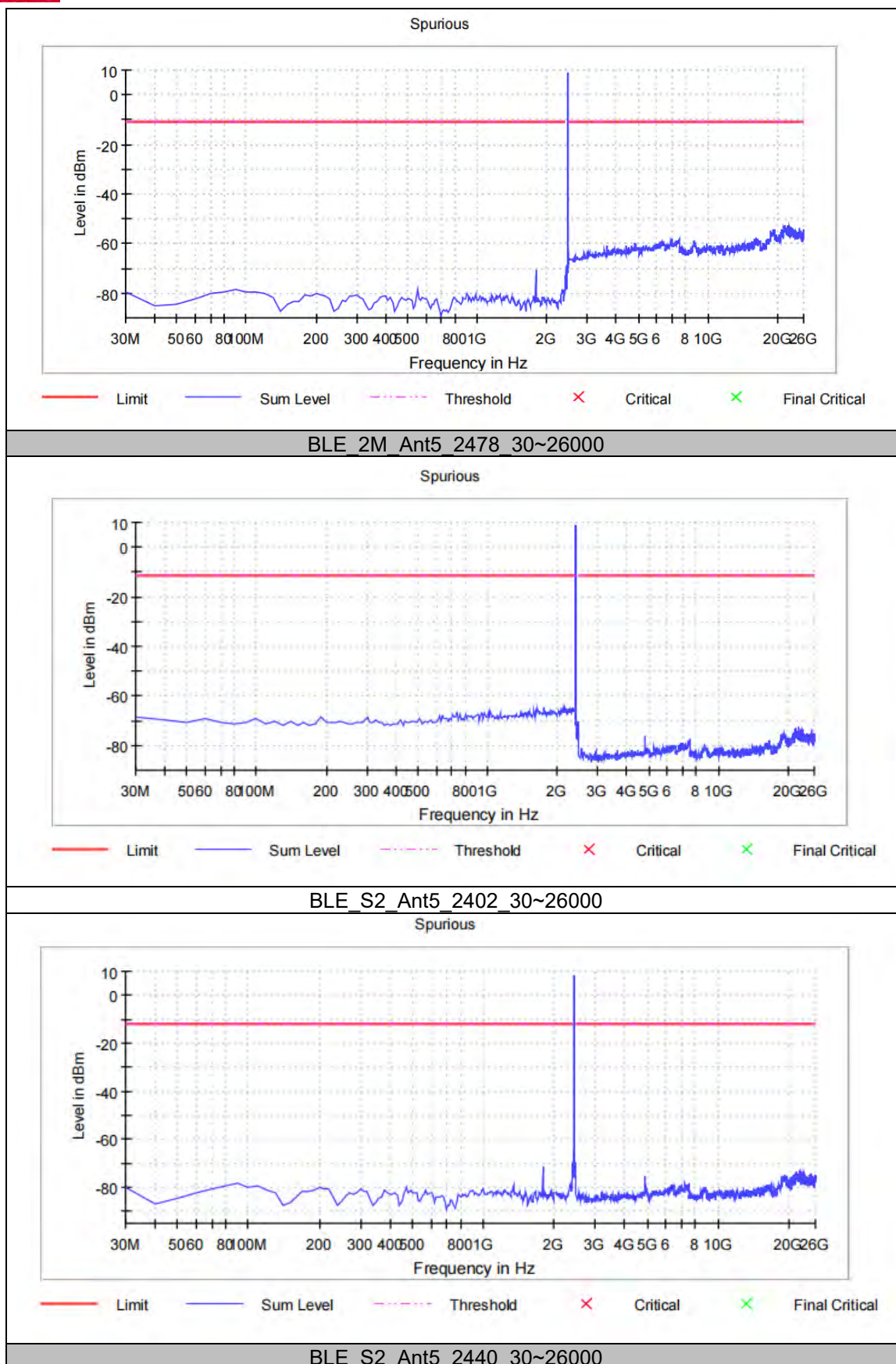
TEST RESULT

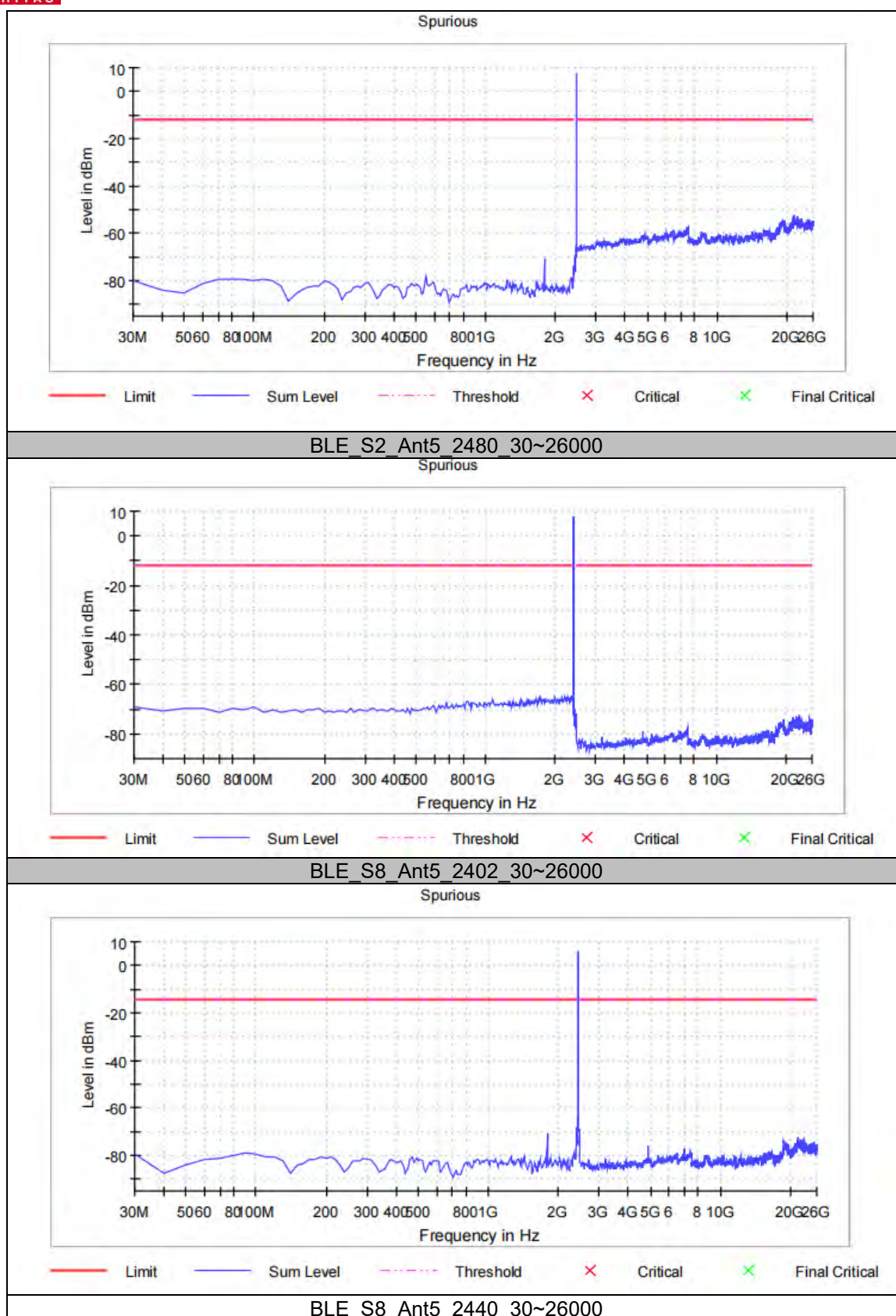
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant5	2402	30~26000	See test graph	See test graph	See test graph	PASS
		2440	30~26000	See test graph	See test graph	See test graph	PASS
		2480	30~26000	See test graph	See test graph	See test graph	PASS
BLE_2M	Ant5	2404	30~26000	See test graph	See test graph	See test graph	PASS
		2440	30~26000	See test graph	See test graph	See test graph	PASS
		2478	30~26000	See test graph	See test graph	See test graph	PASS
BLE_S2	Ant5	2402	30~26000	See test graph	See test graph	See test graph	PASS
		2440	30~26000	See test graph	See test graph	See test graph	PASS
		2480	30~26000	See test graph	See test graph	See test graph	PASS
BLE_S8	Ant5	2402	30~26000	See test graph	See test graph	See test graph	PASS
		2440	30~26000	See test graph	See test graph	See test graph	PASS
		2480	30~26000	See test graph	See test graph	See test graph	PASS

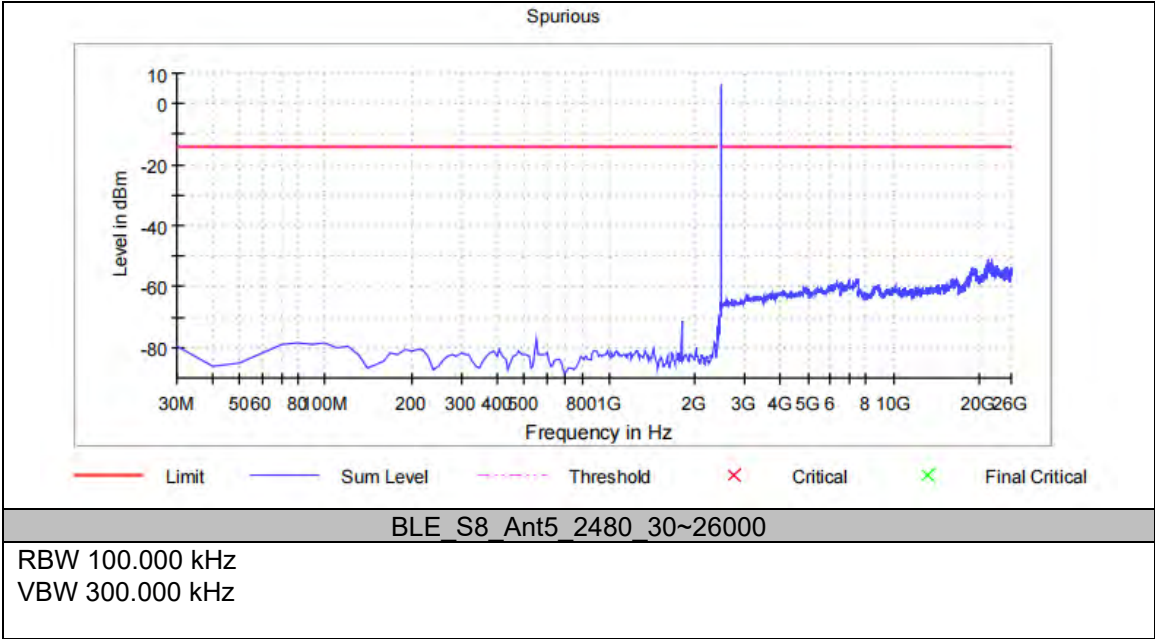
TEST GRAPHS













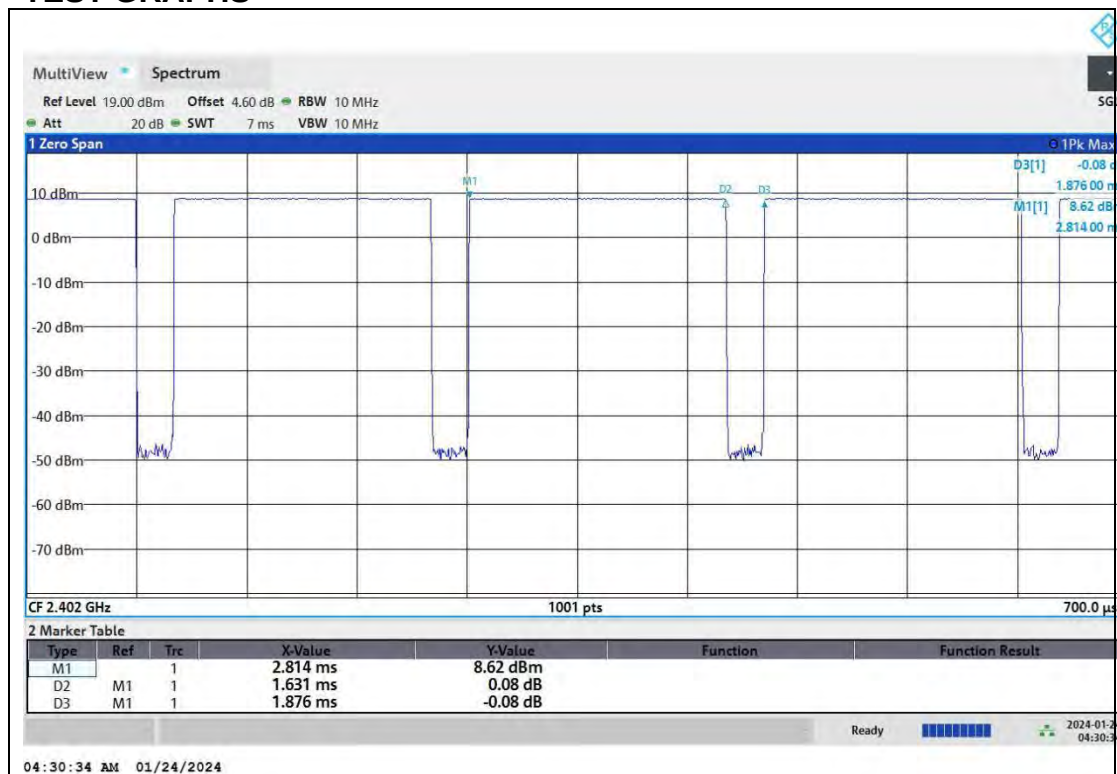
Reference No.: PSU-QSU2312140113RF10

DUTY CYCLE

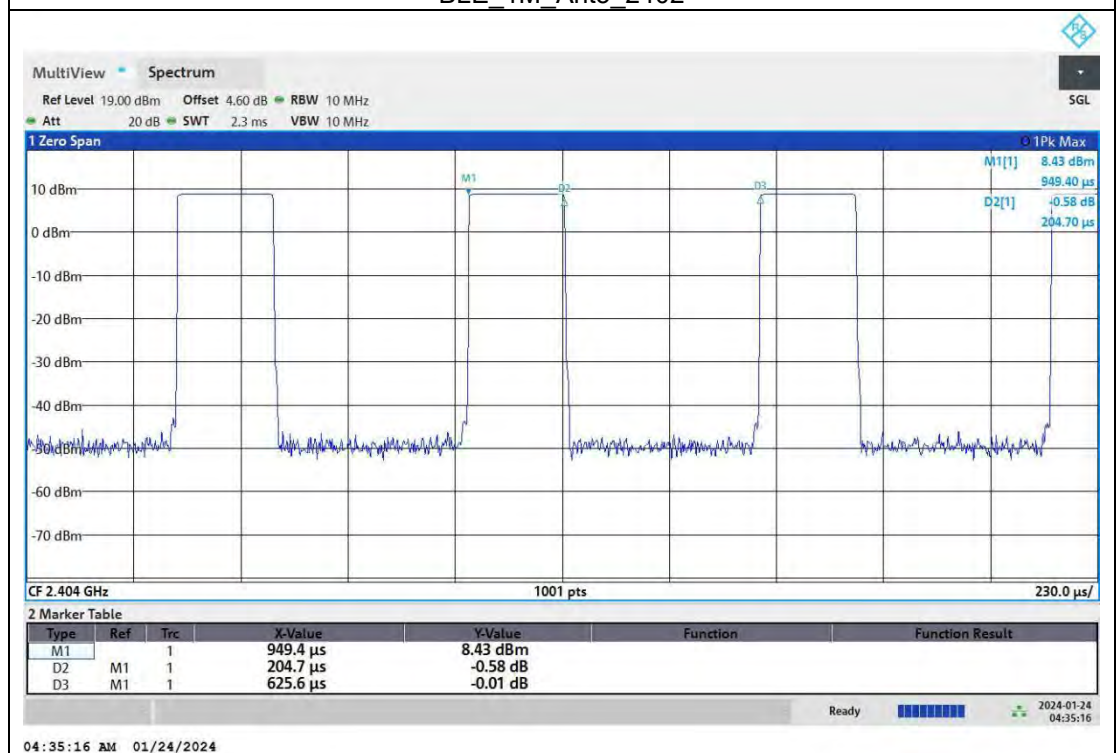
TEST RESULT

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant5	2402	1.6310	1.8760	0.8694	86.94%	0.61	---	PASS
BLE_2M	Ant5	2402	0.2047	0.6256	0.3272	32.72%	4.85	---	PASS
BLE_S2	Ant5	2402	3.5520	4.3840	0.8102	81.02%	0.91	---	PASS
BLE_S8	Ant5	2402	12.9810	13.7260	0.9457	94.57%	0.24	---	PASS

TEST GRAPHS



BLE_1M_Ant5_2402

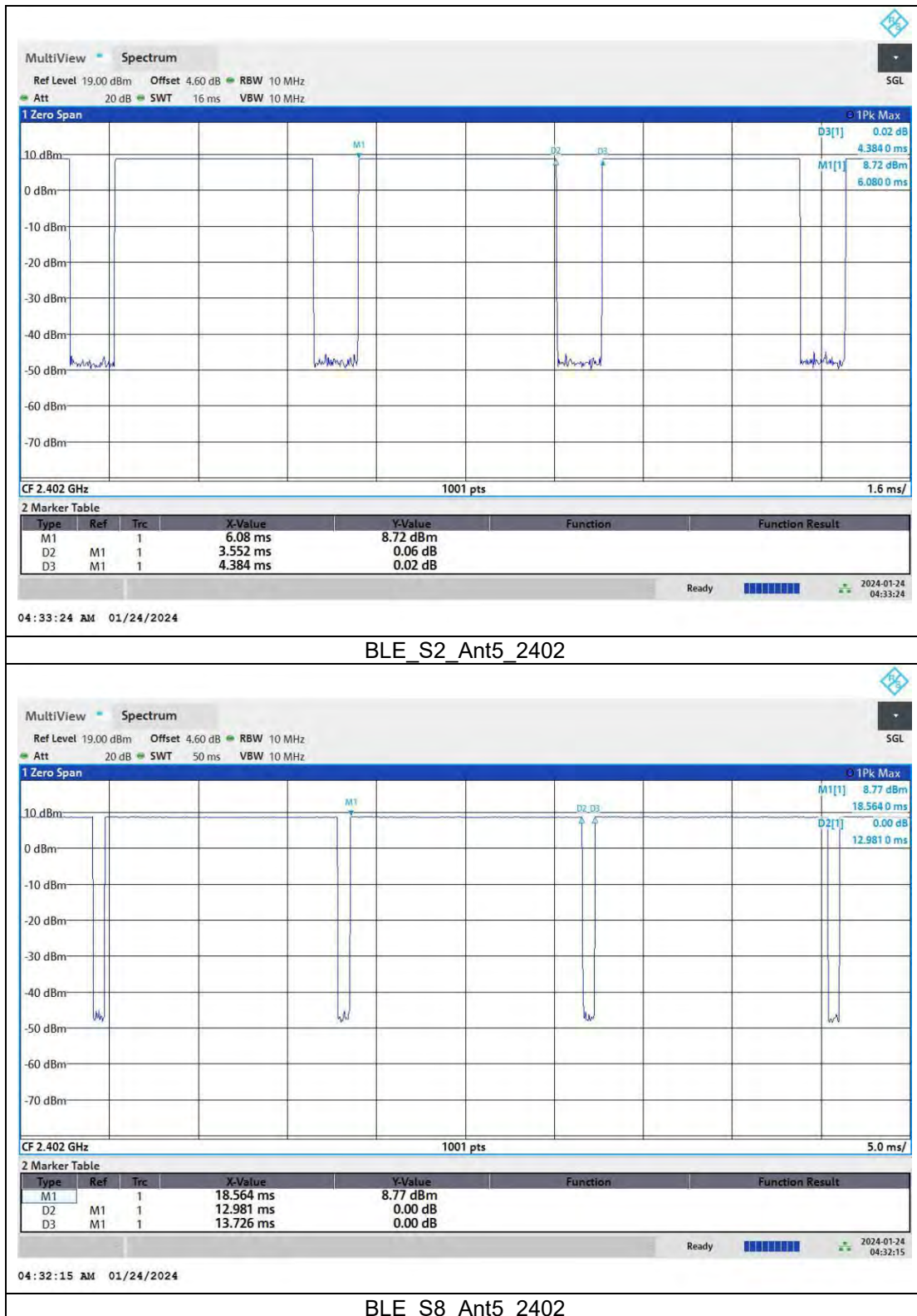


BLE_2M_Ant5_2404



BUREAU
VERITAS

Reference No.: PSU-QSU2312140113RF10



--END--

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