

Annex A BLE Test Data

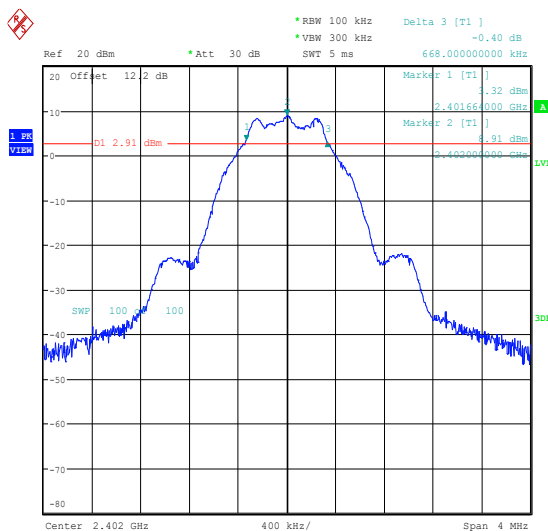
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.66	2402.33	0.5	PASS
		2440	0.68	2439.66	2440.34	0.5	PASS
		2480	0.67	2479.66	2480.33	0.5	PASS

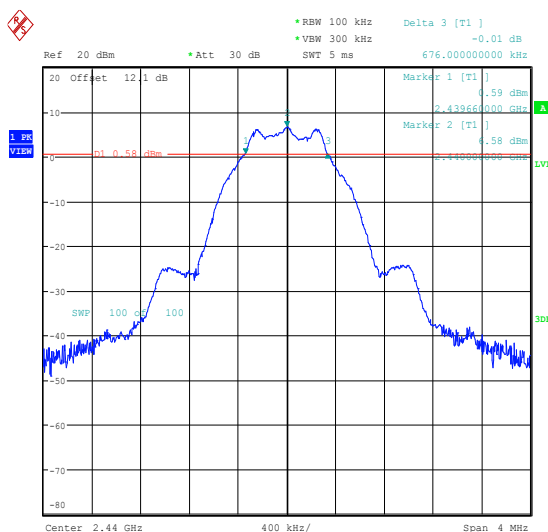
Test Graphs

BLE_1M_Ant1_2402



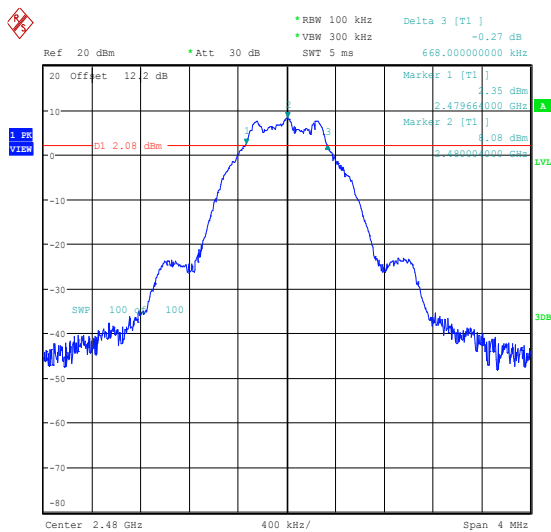
Date: 6.DEC.2024 09:00:08

BLE_1M_Ant1_2440



Date: 6.DEC.2024 09:06:03

BLE_1M_Ant1_2480



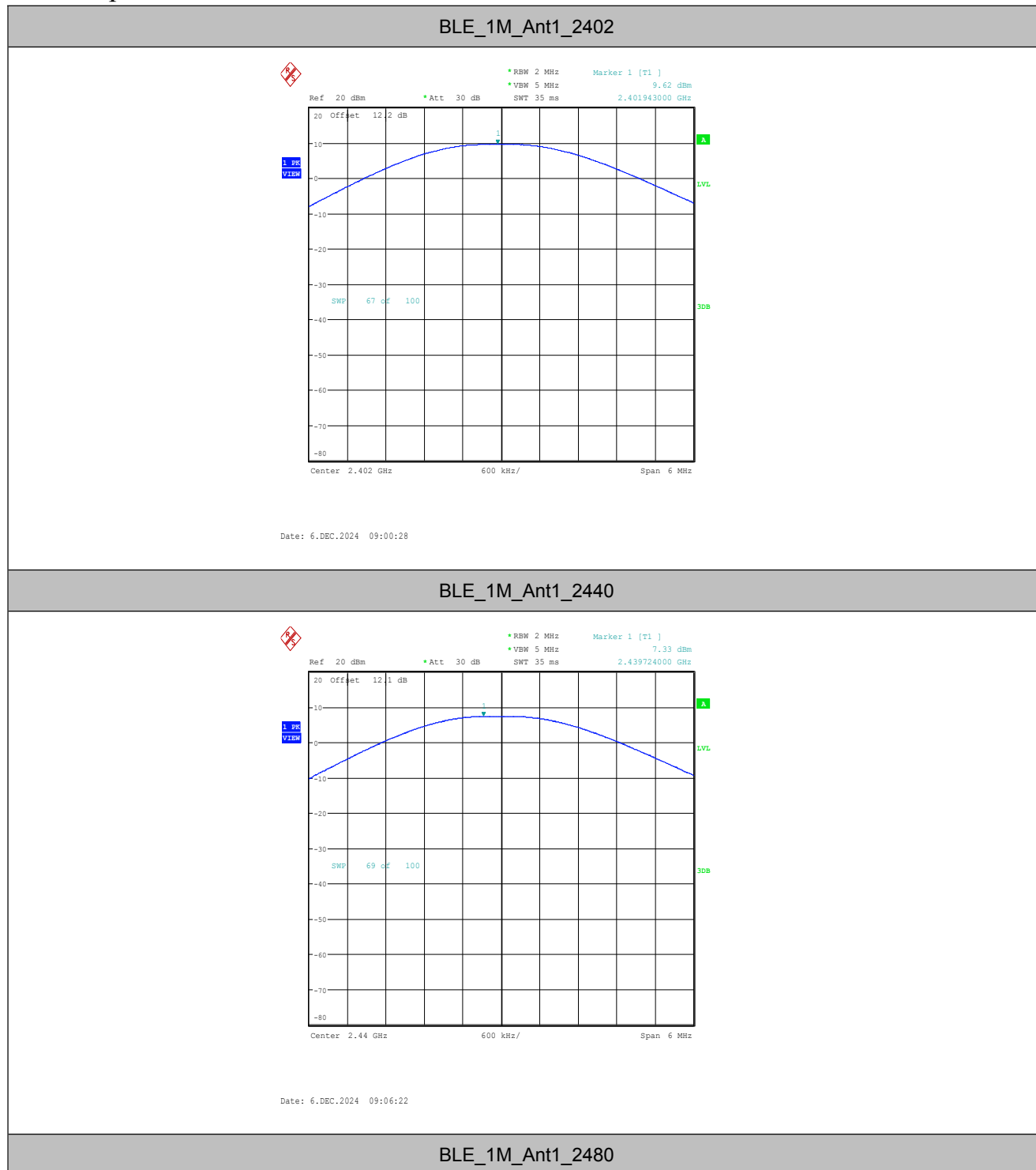
Date: 6.DEC.2024 09:10:57

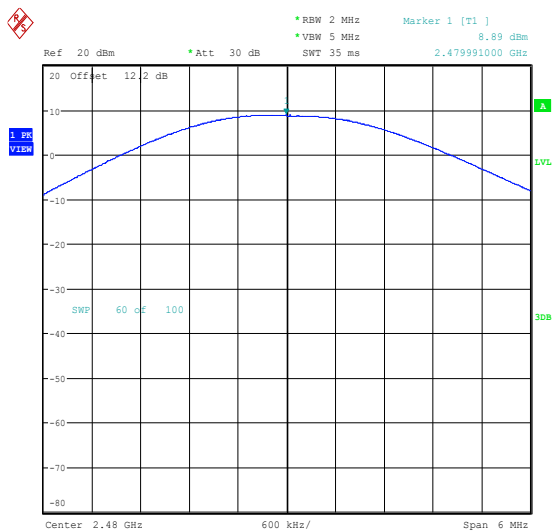
Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	9.62	≤30	9.62	≤36	PASS
		2440	7.33	≤30	7.33	≤36	PASS
		2480	8.89	≤30	8.89	≤36	PASS

Test Graphs Peak





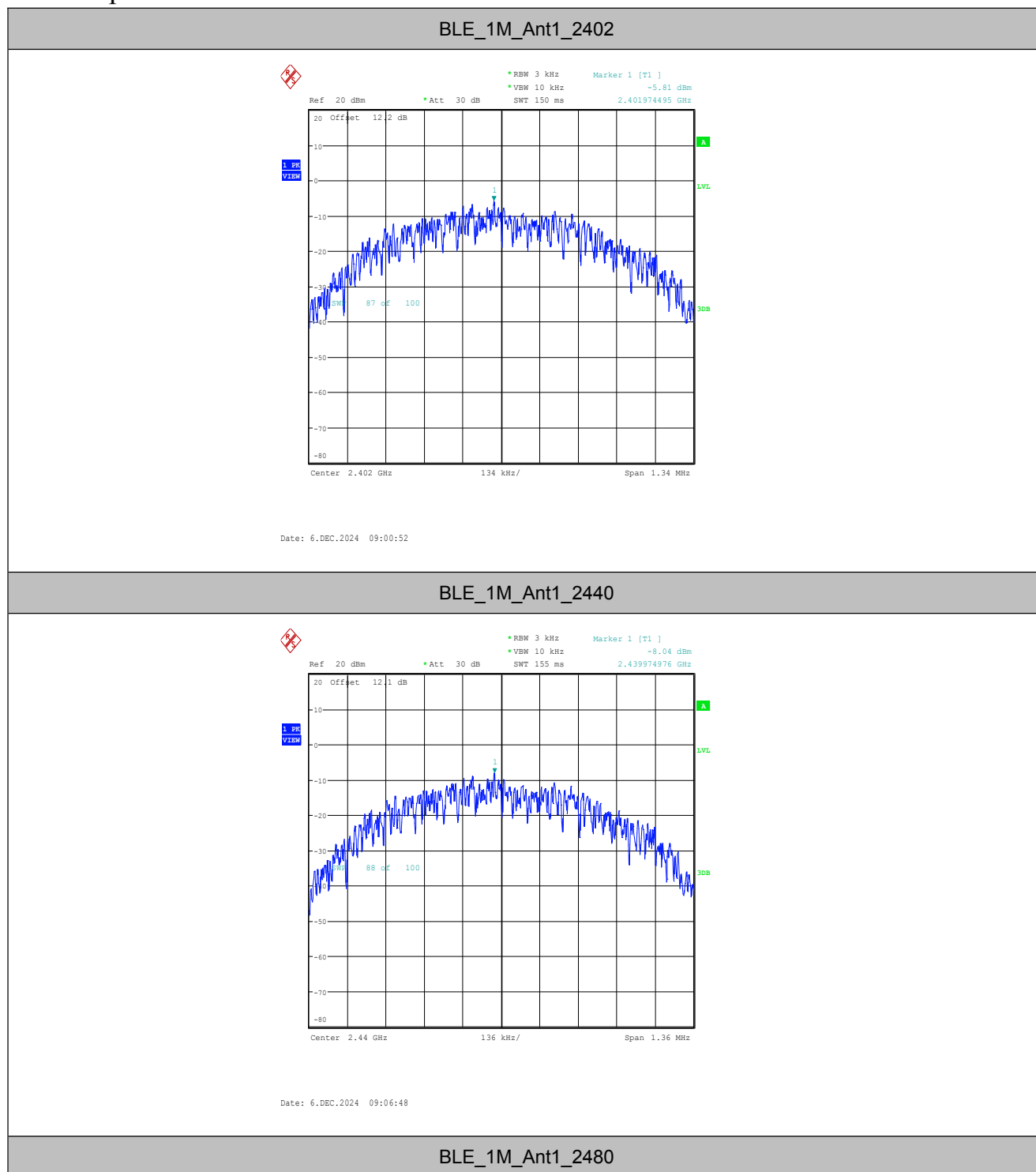
Date: 6.DEC.2024 09:11:16

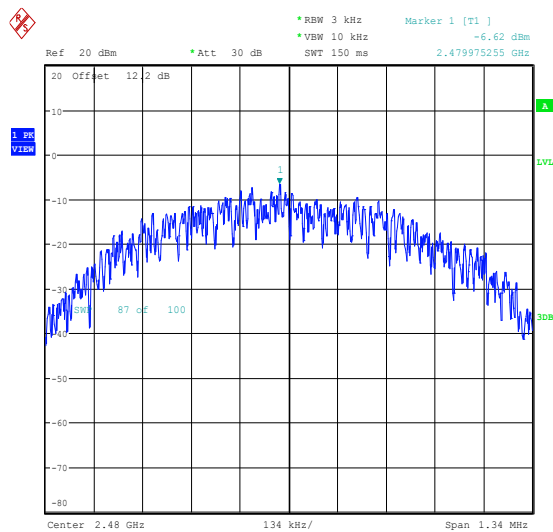
Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.81	≤8.00	PASS
		2440	-8.04	≤8.00	PASS
		2480	-6.62	≤8.00	PASS

Test Graphs





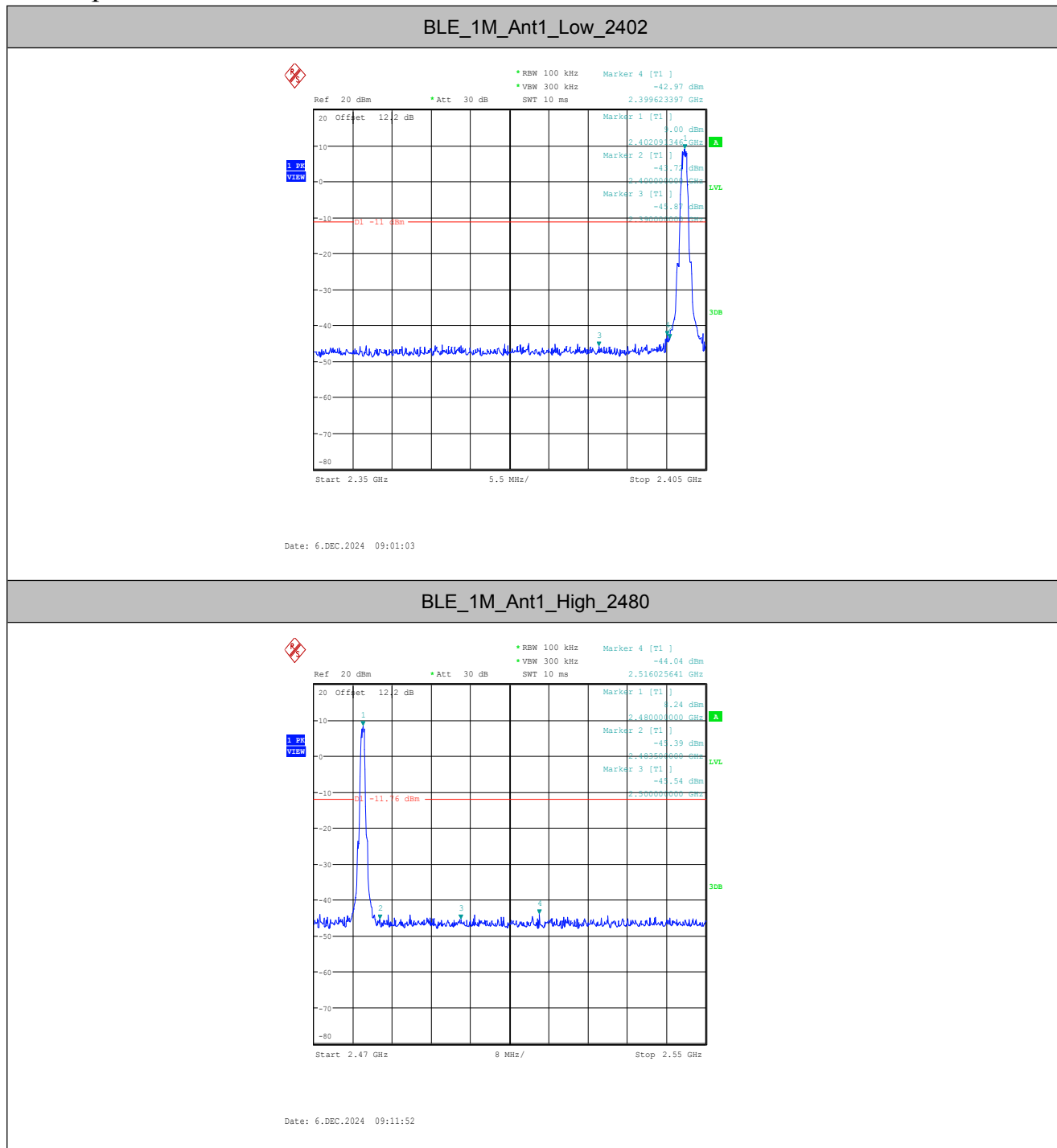
Date: 6.DEC.2024 09:11:41

Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.00	-42.97	≤-11	PASS
		High	2480	8.24	-44.04	≤-11.76	PASS

Test Graphs

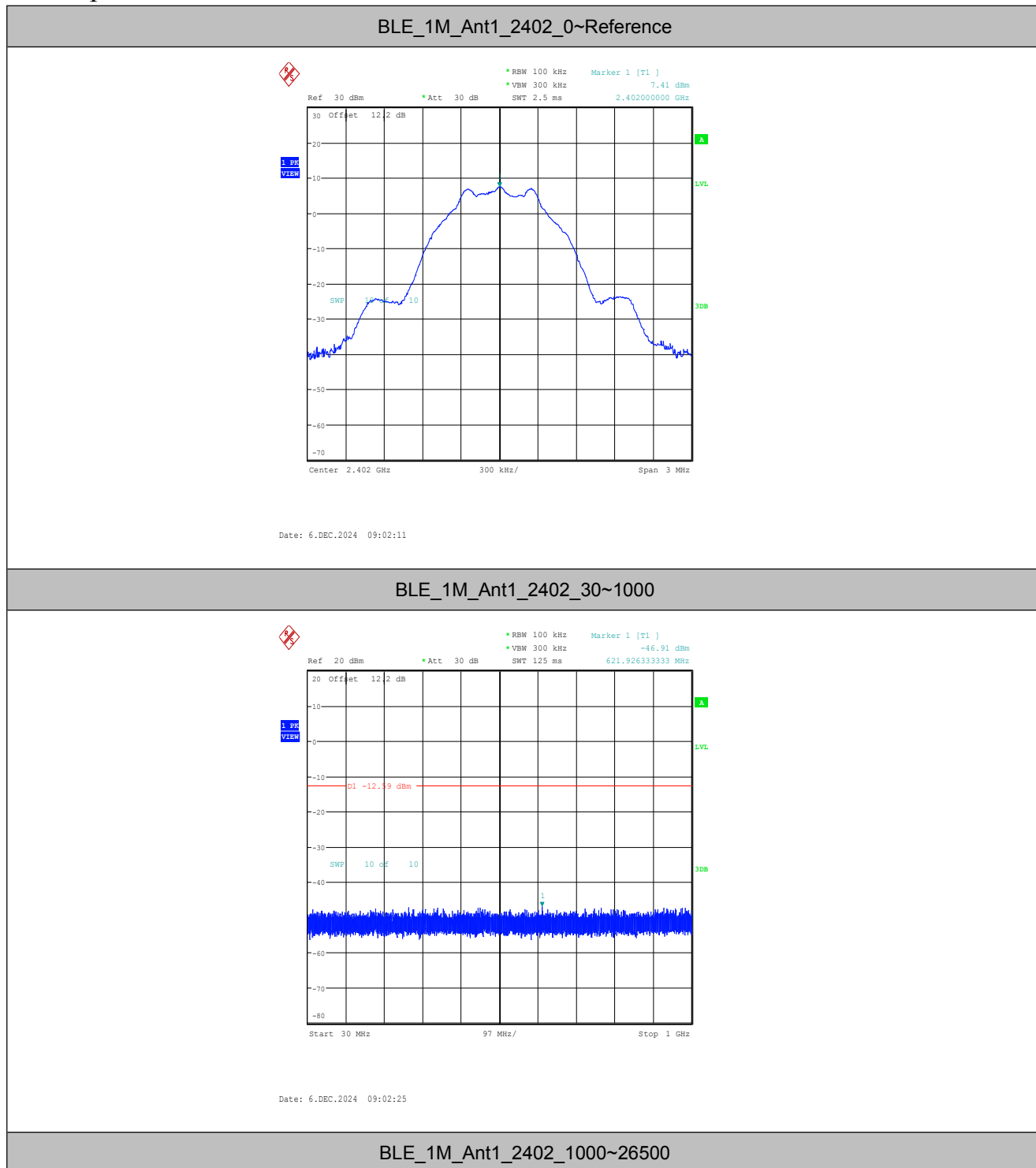


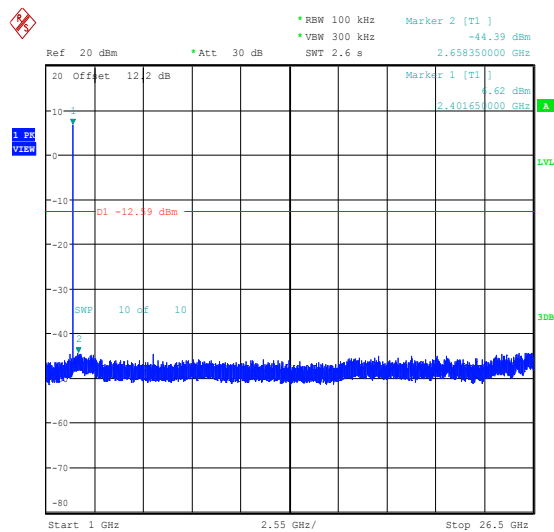
Appendix E: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.41	7.41	---	PASS
			30~1000	7.41	-46.91	≤-12.59	PASS
			1000~26500	7.41	-44.39	≤-12.59	PASS
		2440	Reference	6.59	6.59	---	PASS
			30~1000	6.59	-46.89	≤-13.41	PASS
			1000~26500	6.59	-43.52	≤-13.41	PASS
		2480	Reference	8.10	8.10	---	PASS
			30~1000	8.10	-47.12	≤-11.9	PASS
			1000~26500	8.10	-43.45	≤-11.9	PASS

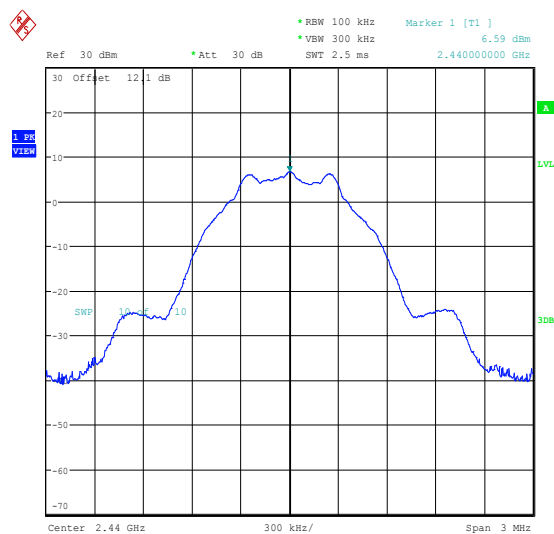
Test Graphs





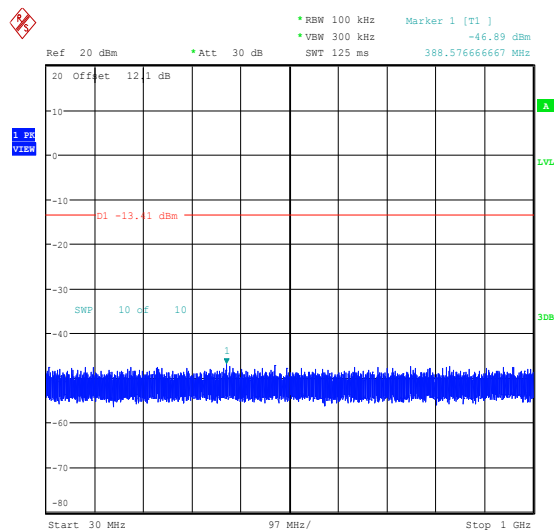
Date: 6.DEC.2024 09:04:08

BLE_1M_Ant1_2440_0~Reference



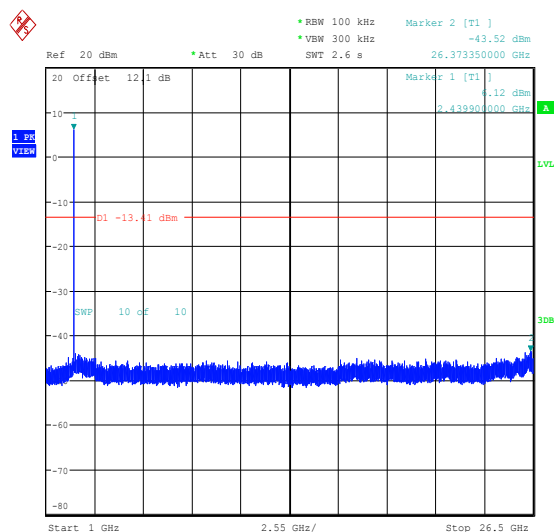
Date: 6.DEC.2024 09:06:57

BLE_1M_Ant1_2440_30~1000



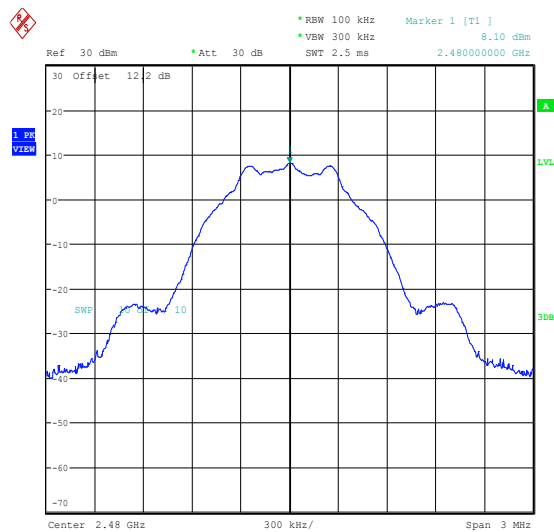
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BLE_1M_Ant1_2440_1000~26500



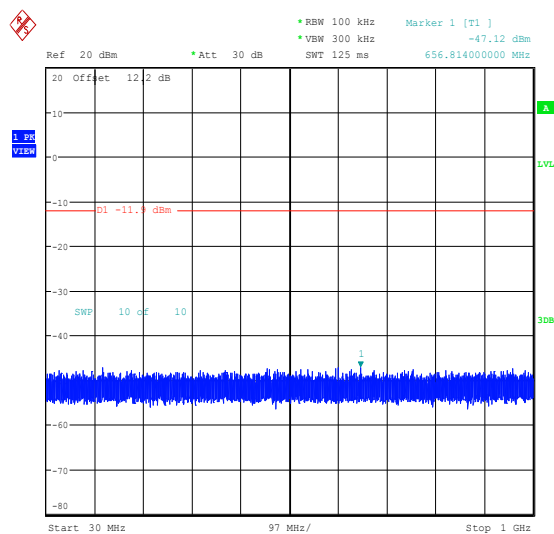
Date: 6.DEC.2024 09:08:54

BLE_1M_Ant1_2480_0~Reference



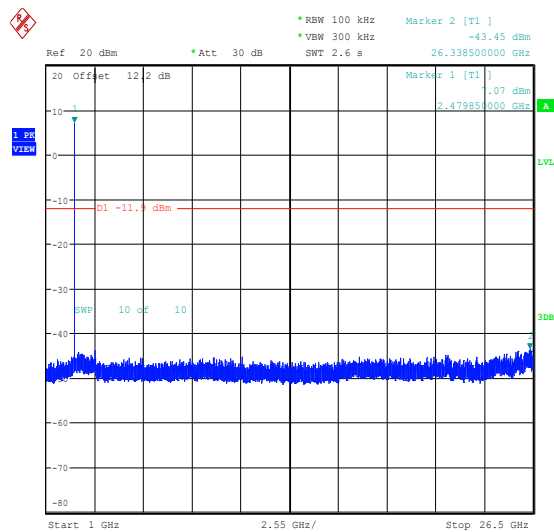
Date: 6.DEC.2024 09:12:59

BLE_1M_Ant1_2480_30~1000



Date: 6.DEC.2024 09:13:13

BLE_1M_Ant1_2480_1000~26500



Date: 6.DEC.2024 09:14:56

Appendix G: Radiated Bandedge and Spurious

9 kHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was

20dB lower than the limit line per 15.31(o) was not reported.

Radiated Emission Test Data 9k Hz-30MHz

Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBμV/m)	Level (dBμV/m)	Polarity (H/V)	Limit (dBμV/m)	Margin (dB)	Note
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

30MHz-1GHz

Worst case is shown below for 30MHz-1GHz only.

The emissions don't show in following result tables are more than 20dB below the limits.

Radiated Emission Test Data 30MHz-1GHz

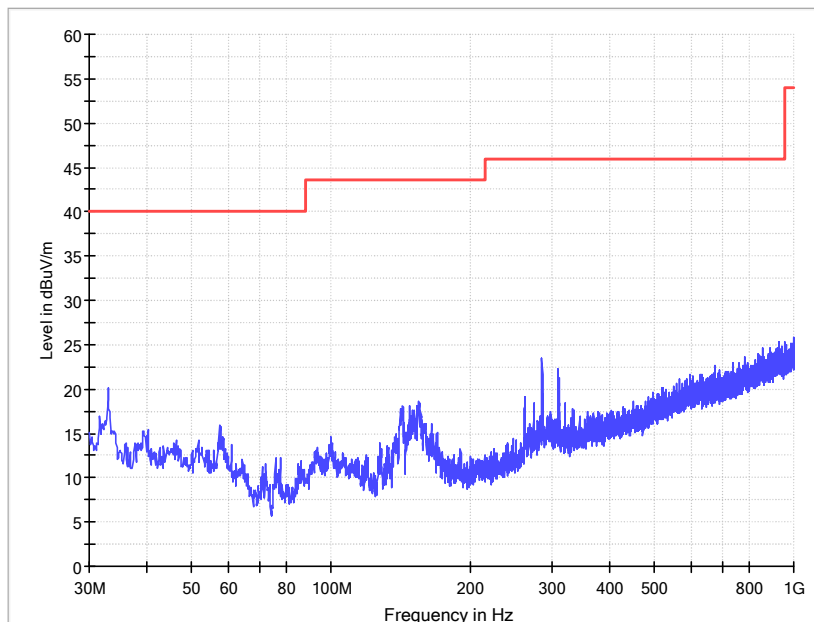
Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBμV/m)	Level (dBμV/m)	Polarity (Horizontal/Vertical)	Limit (dBμV/m)	Margin (dB)	Note
30	0.6	12.3	13.5	26.4	Vertical	40.0	13.6	QP
32.91	0.7	12.3	22.8	35.8	Vertical	40.0	4.2	QP
57.267	0.8	13.0	13.6	27.4	Vertical	40.0	12.6	QP
71.602	0.9	8.7	15.7	25.3	Vertical	40.0	14.7	QP
131.311	1.3	8.9	17.6	27.8	Vertical	43.5	15.7	QP
154.914	1.4	8.3	16.5	26.2	Vertical	43.5	17.3	QP
33.017	0.7	12.3	7.1	20.1	Horizontal	40	19.9	QP

57.267	0.8	13.0	2.1	15.9	Horizontal	40	24.1	QP
142.843	1.3	8.2	8.7	18.2	Horizontal	43.5	25.3	QP
154.806	1.4	8.3	8.9	18.6	Horizontal	43.5	24.9	QP
285.972	2.0	12.7	8.7	23.4	Horizontal	46	22.6	QP
309.791	2.1	13.1	7.2	22.4	Horizontal	46	23.6	QP

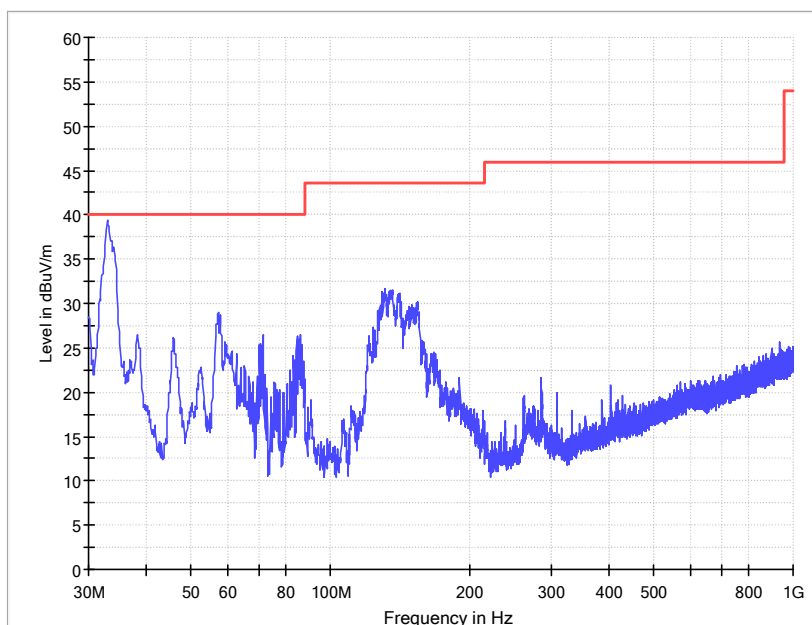
Remark: Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

30MHz-1GHz

Horizontal



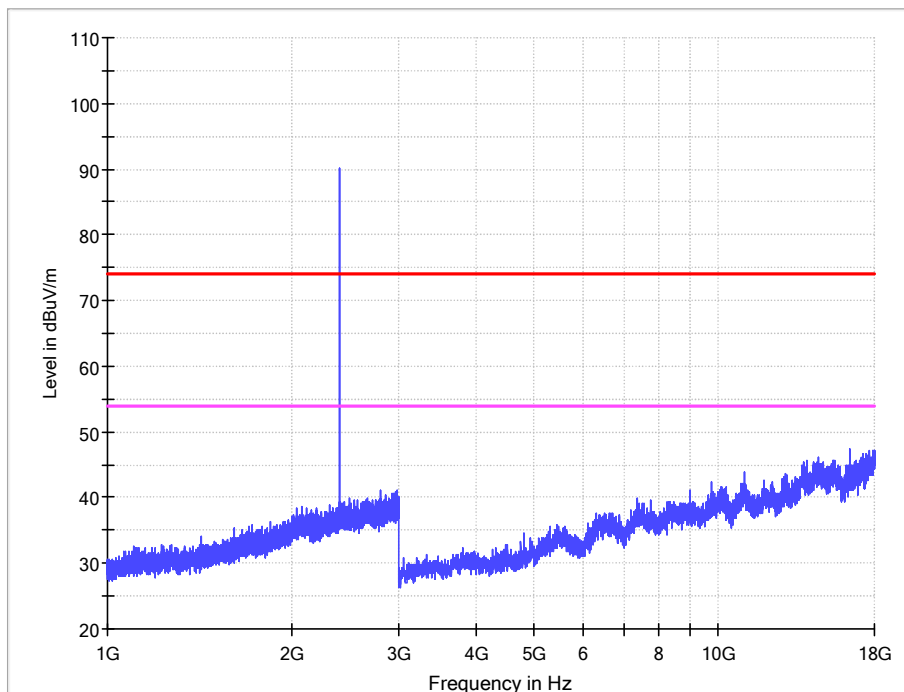
Vertical



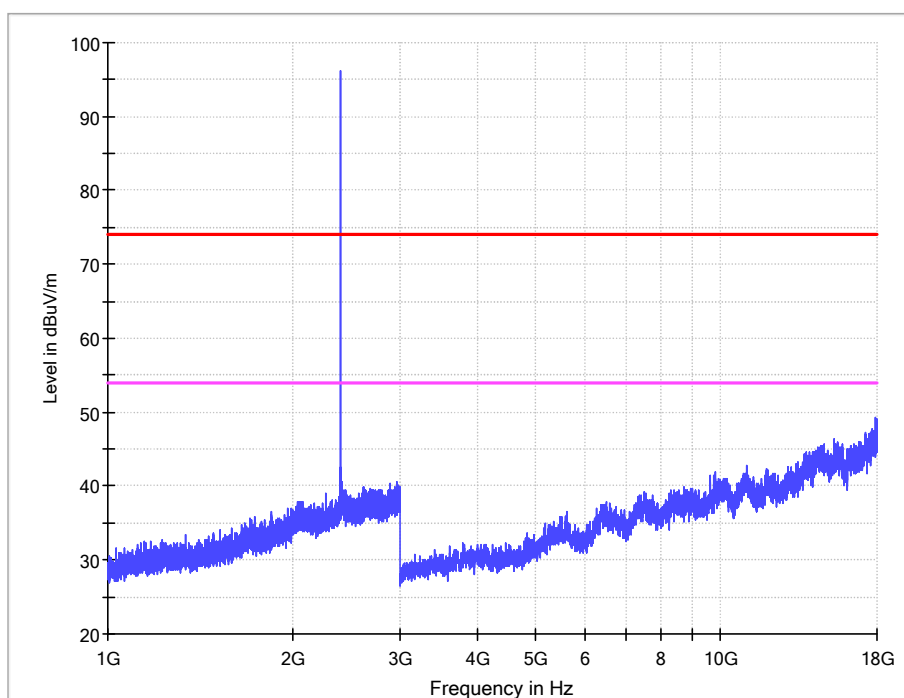
1-18 GHz

BLE_1Mbps CH0

Horizontal



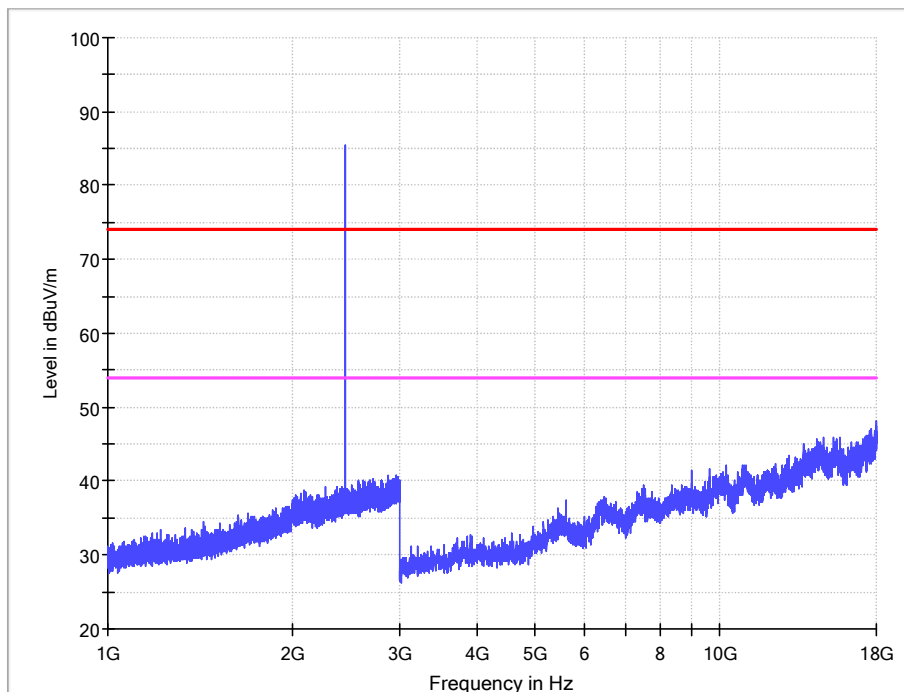
Vertical



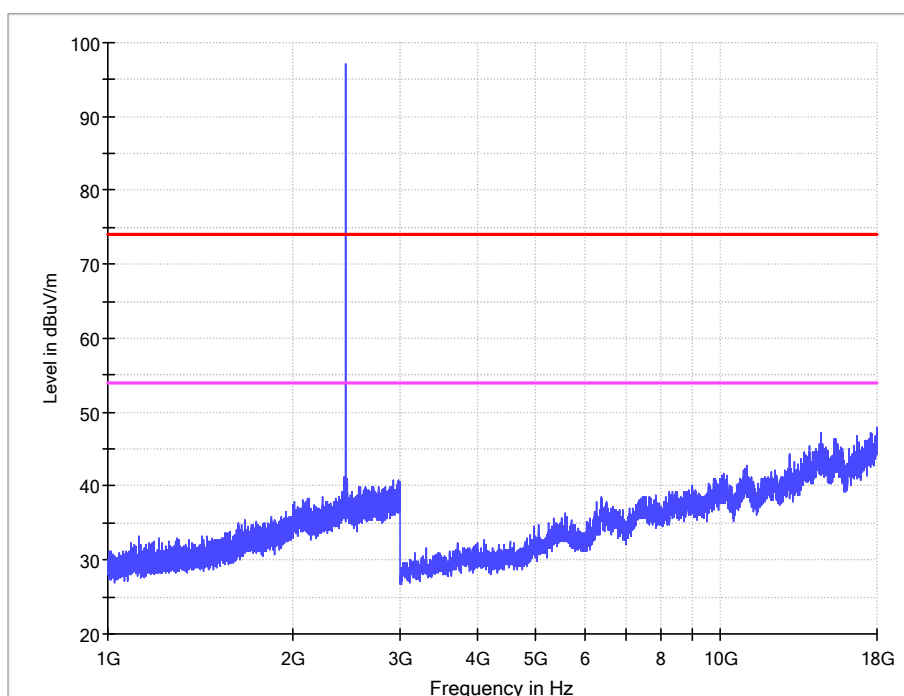
1-18 GHz

BLE_1Mbps BLE CH19

Horizontal



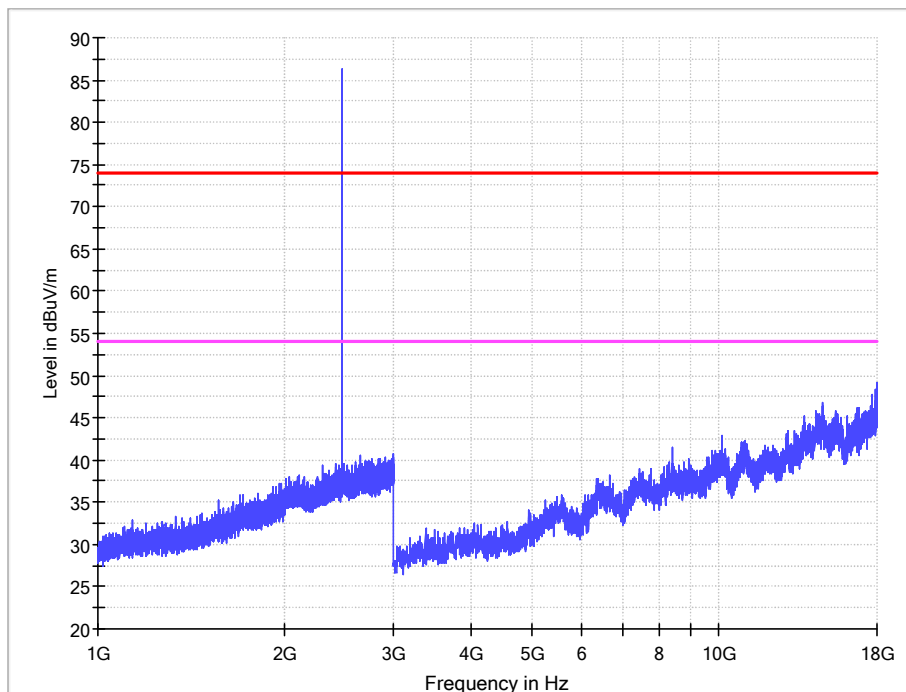
Vertical



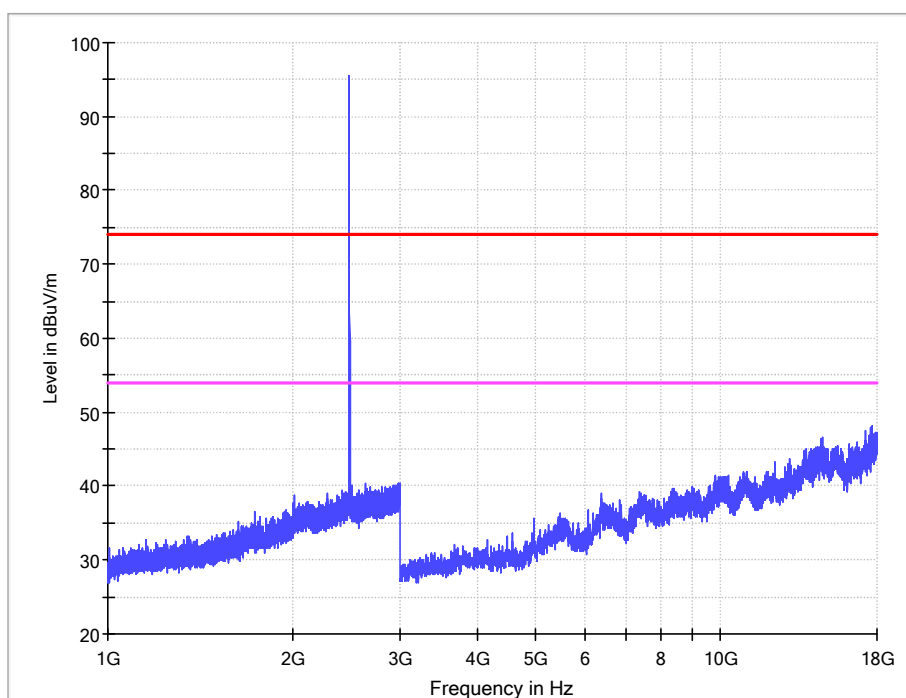
1-18 GHz

BLE_1Mbps BLE CH39

Horizontal



Vertical

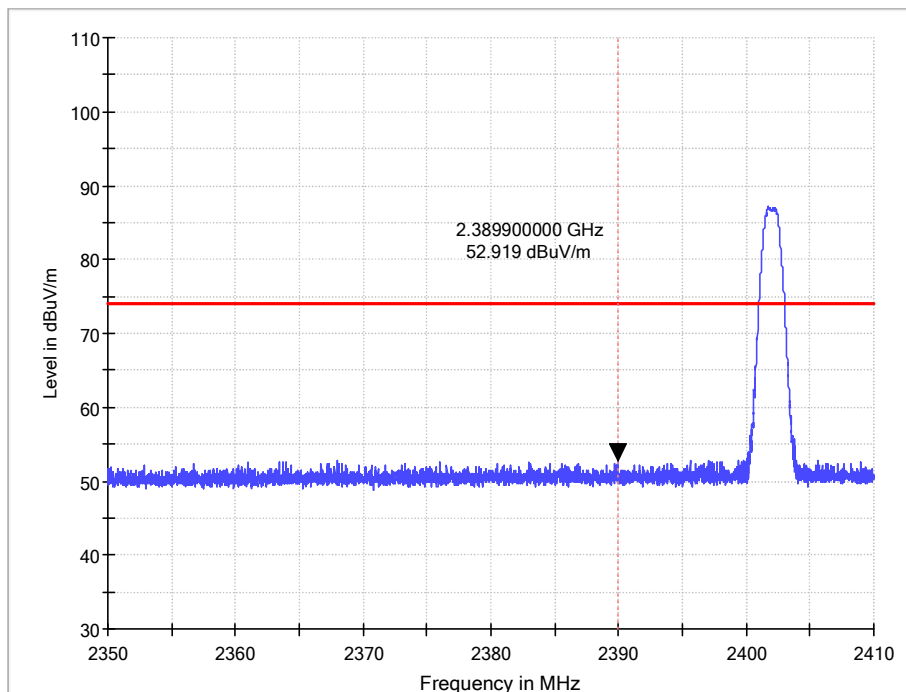


Band Edge

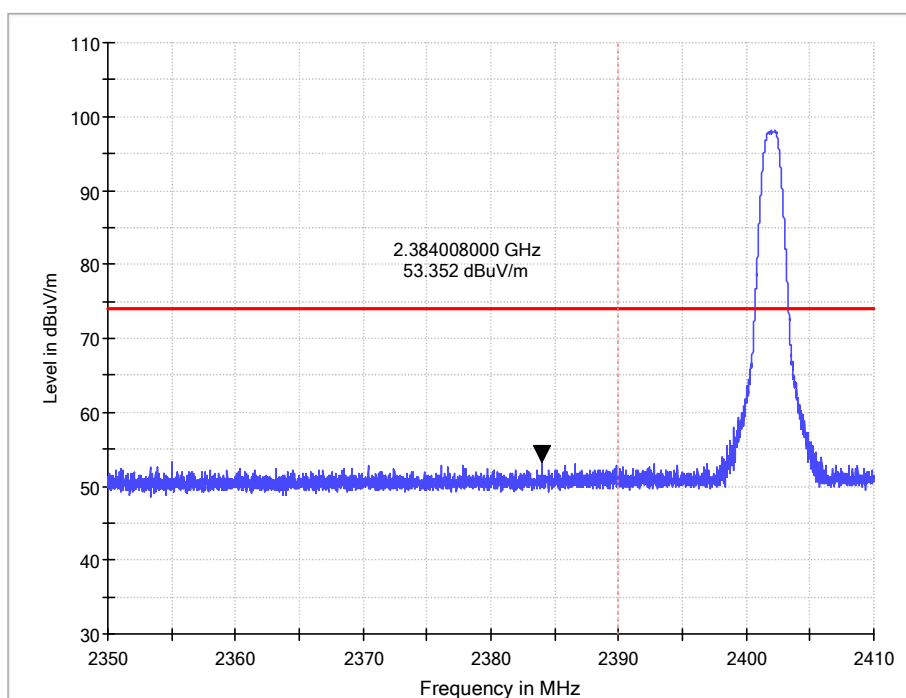
BLE_1Mbps BLE CH0

PK

Horizontal

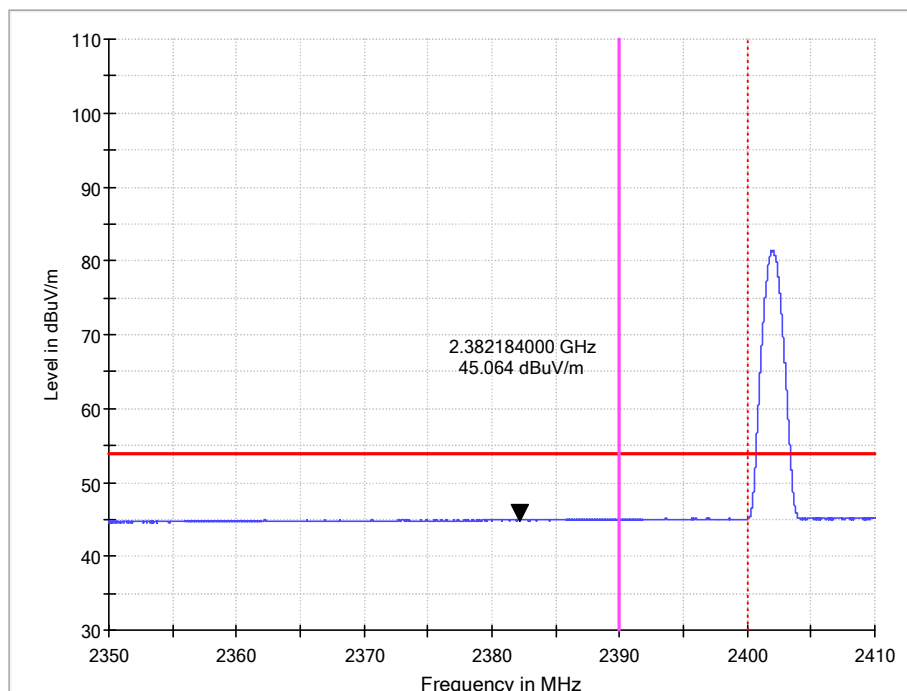


Vertical

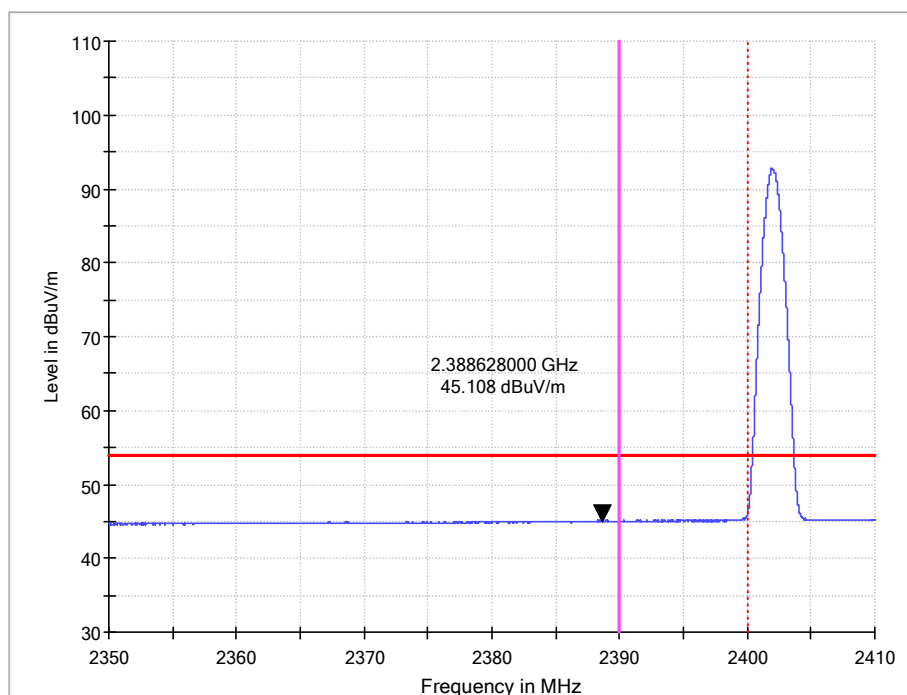


AV

Horizontal



Vertical

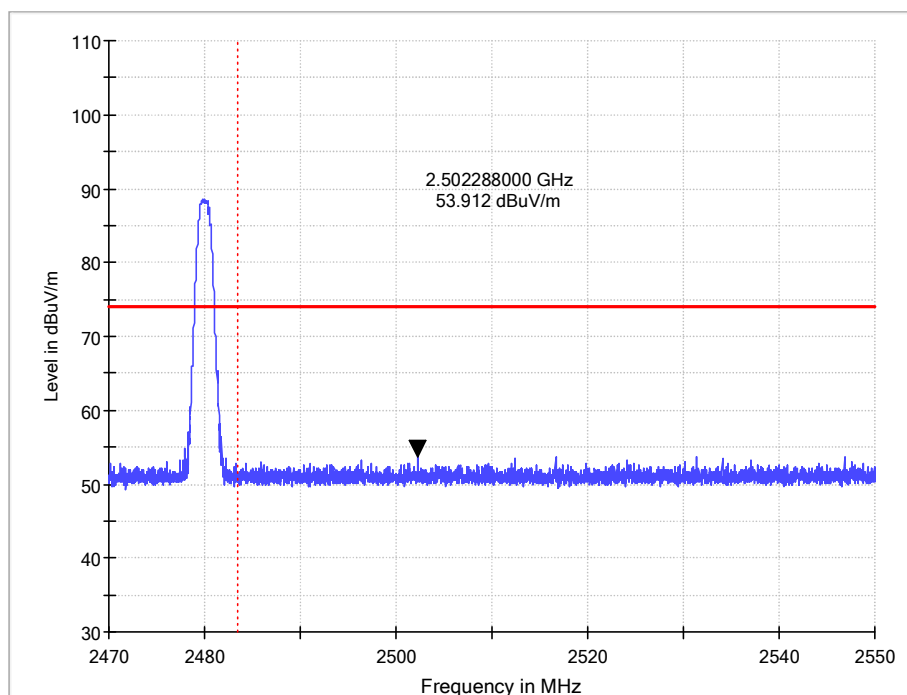


Band Edge

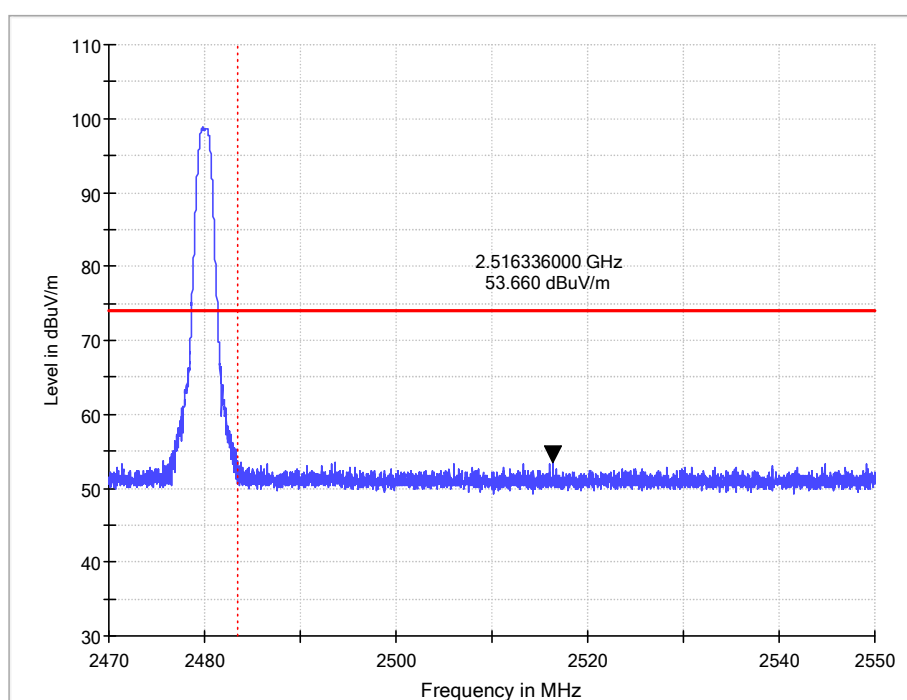
BLE_1Mbps BLE CH39

PK

Horizontal

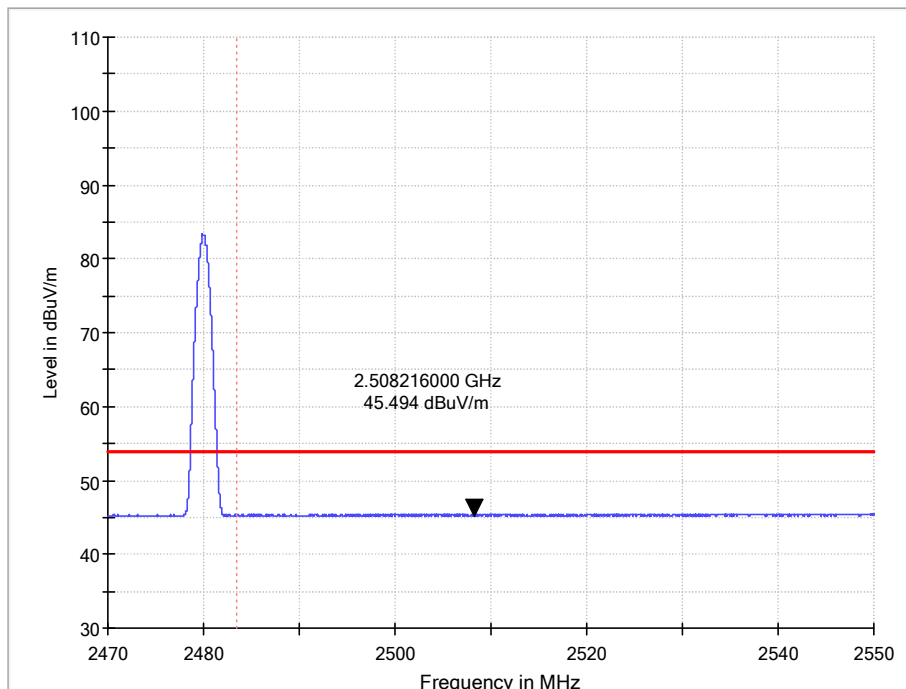


Vertical



AV

Horizontal



Vertical

