

Annex A WLAN Test Data

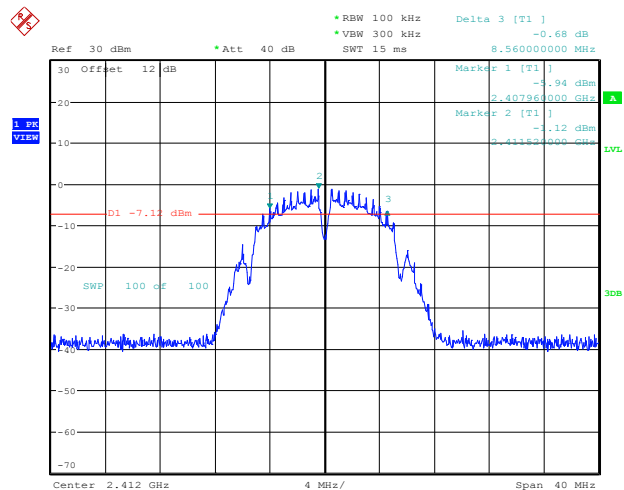
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.56	2407.96	2416.52	0.5	PASS
		2437	8.52	2432.52	2441.04	0.5	PASS
		2462	8.56	2457.96	2466.52	0.5	PASS
11G	Ant1	2412	15.44	2404.48	2419.92	0.5	PASS
		2437	15.08	2429.48	2444.56	0.5	PASS
		2462	15.80	2454.12	2469.92	0.5	PASS
11N20SISO	Ant1	2412	15.44	2404.44	2419.88	0.5	PASS
		2437	15.32	2429.48	2444.80	0.5	PASS
		2462	15.88	2454.24	2470.12	0.5	PASS

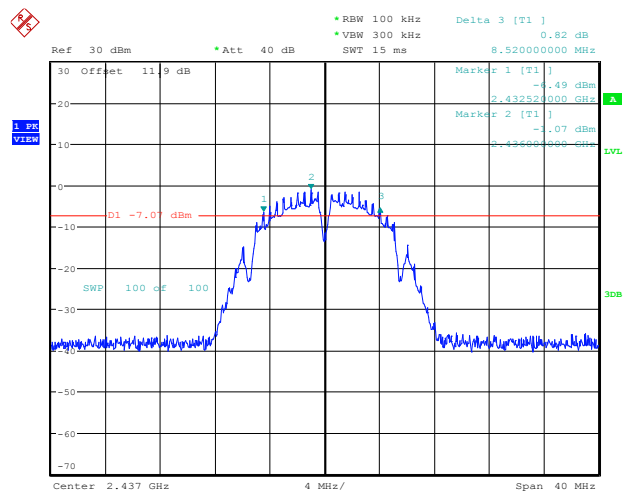
Test Graphs

11B_Ant1_2412



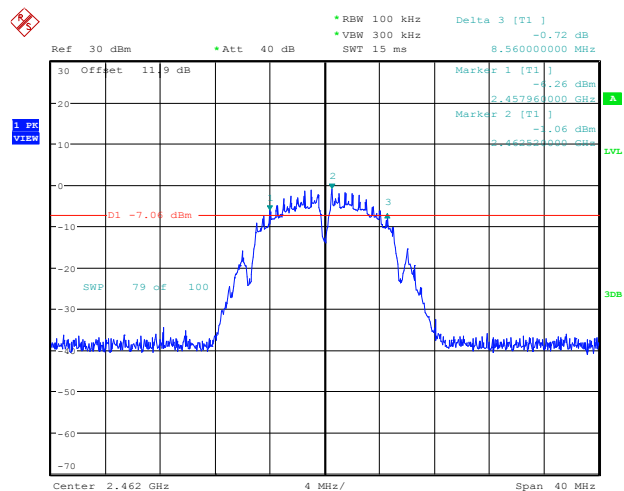
Date: 28.APR.2024 15:27:45

11B_Ant1_2437



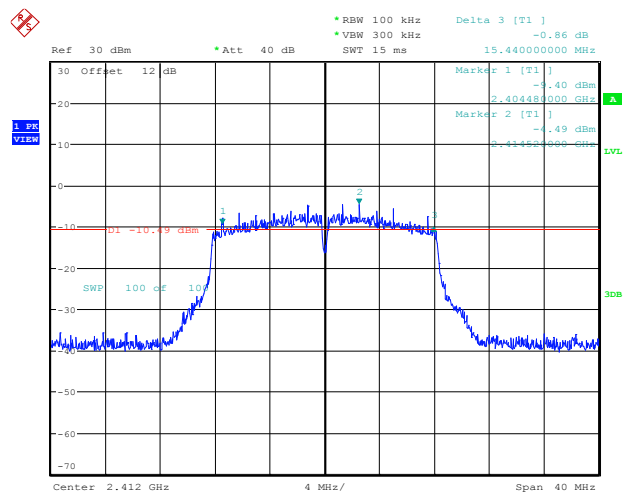
Date: 28.APR.2024 15:41:14

11B_Ant1_2462



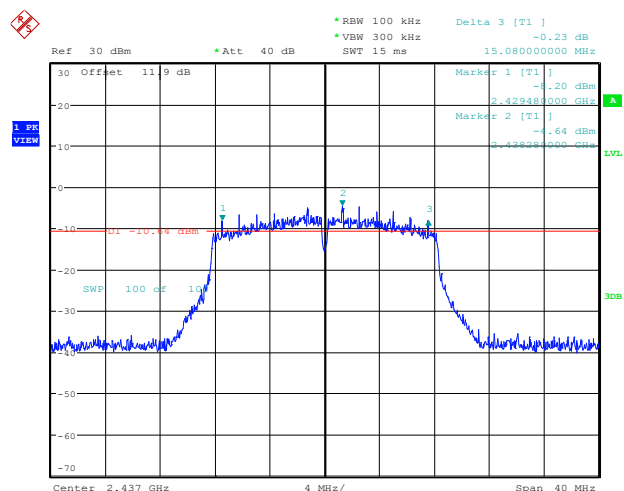
Date: 28.APR.2024 15:48:07

11G_Ant1_2412



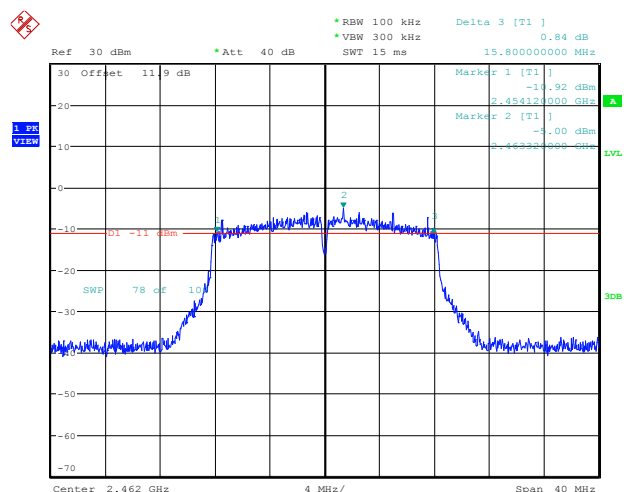
Date: 28.APR.2024 16:01:20

11G_Ant1_2437



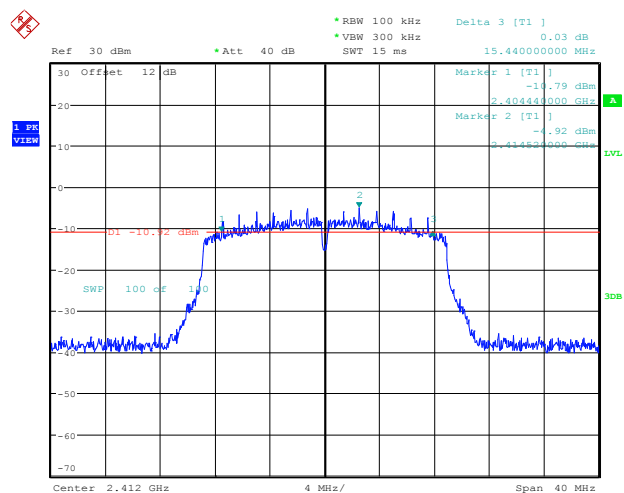
Date: 28.APR.2024 16:17:07

11G_Ant1_2462



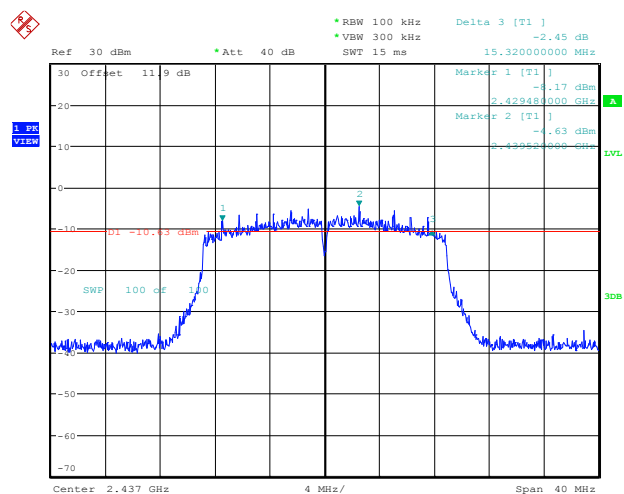
Date: 28.APR.2024 16:27:18

11N20SISO_Ant1_2412



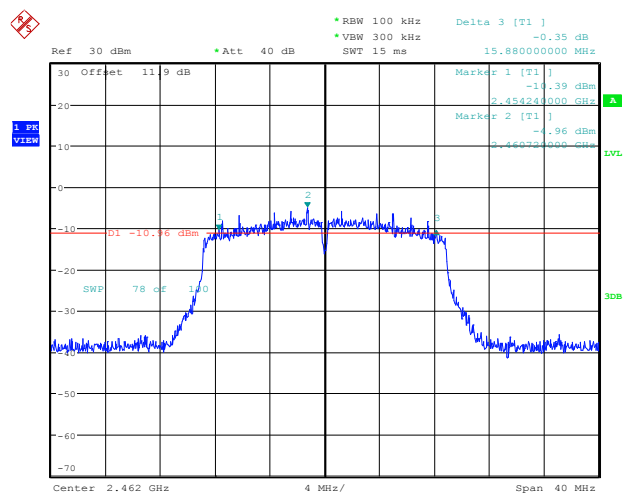
Date: 28.APR.2024 16:41:24

11N20SISO_Ant1_2437



Date: 28.APR.2024 16:52:03

11N20SISO_Ant1_2462



Date: 28.APR.2024 17:05:54

Appendix B: Maximum conducted output power

Test Result Peak

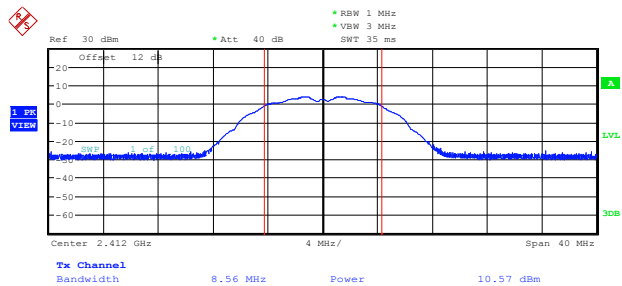
TestMode	Antenna	Frequency [MHz]	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	10.57	≤30.00	9.98	≤36.00	PASS
		2437	10.80	≤30.00	10.21	≤36.00	PASS
		2462	10.53	≤30.00	9.94	≤36.00	PASS
11G	Ant1	2412	14.69	≤30.00	14.10	≤36.00	PASS
		2437	14.47	≤30.00	13.88	≤36.00	PASS
		2462	14.99	≤30.00	14.40	≤36.00	PASS
11N20SISO	Ant1	2412	14.22	≤30.00	13.63	≤36.00	PASS
		2437	14.86	≤30.00	14.27	≤36.00	PASS
		2462	14.98	≤30.00	14.39	≤36.00	PASS

Test Result Average

Test Mode	Antenna	Frequency[MHz]	Result [dBm]
11B	Ant1	2412	8.38
		2437	8.50
		2462	8.53
11G	Ant1	2412	7.25
		2437	7.45
		2462	7.50
11N20SISO	Ant1	2412	7.11
		2437	7.23
		2462	7.39

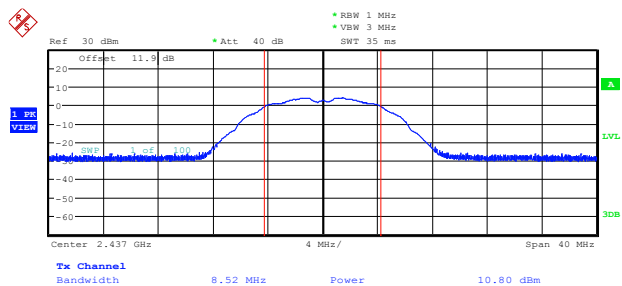
Test Graphs

11B_Ant1_2412



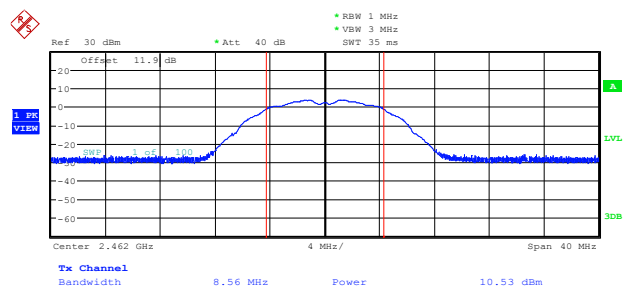
Date: 28.APR.2024 15:28:31

11B_Ant1_2437



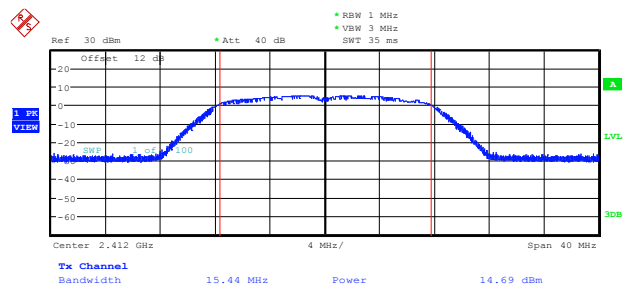
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11B_Ant1_2462



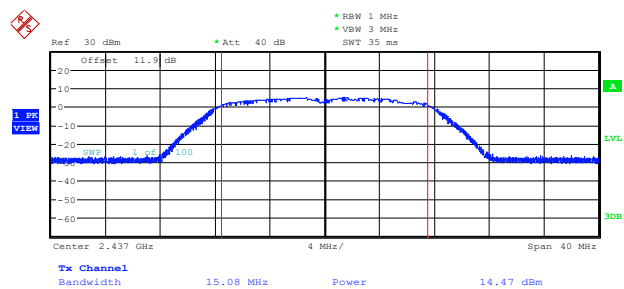
Date: 28.APR.2024 15:49:32

11G_Ant1_2412



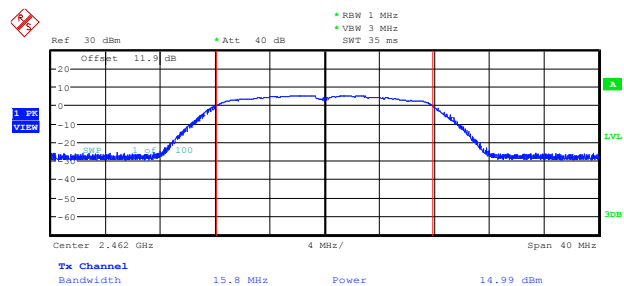
Date: 28.APR.2024 16:01:48

11G_Ant1_2437



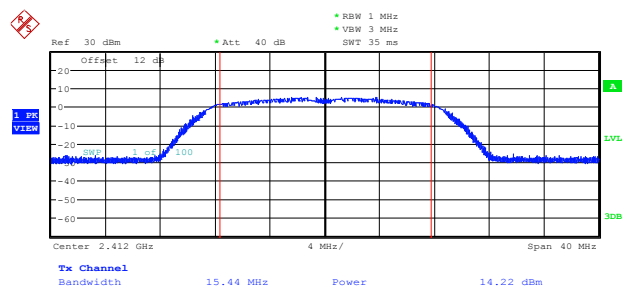
Date: 28.APR.2024 16:17:42

11G_Ant1_2462



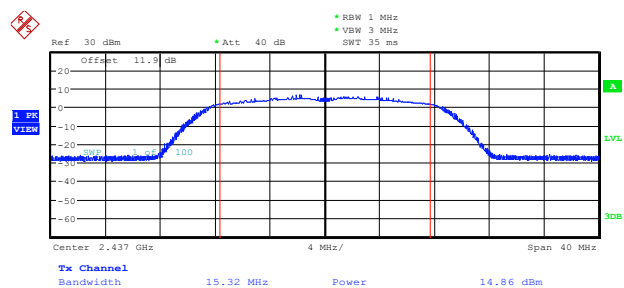
Date: 28.APR.2024 16:28:20

11N20SISO_Ant1_2412



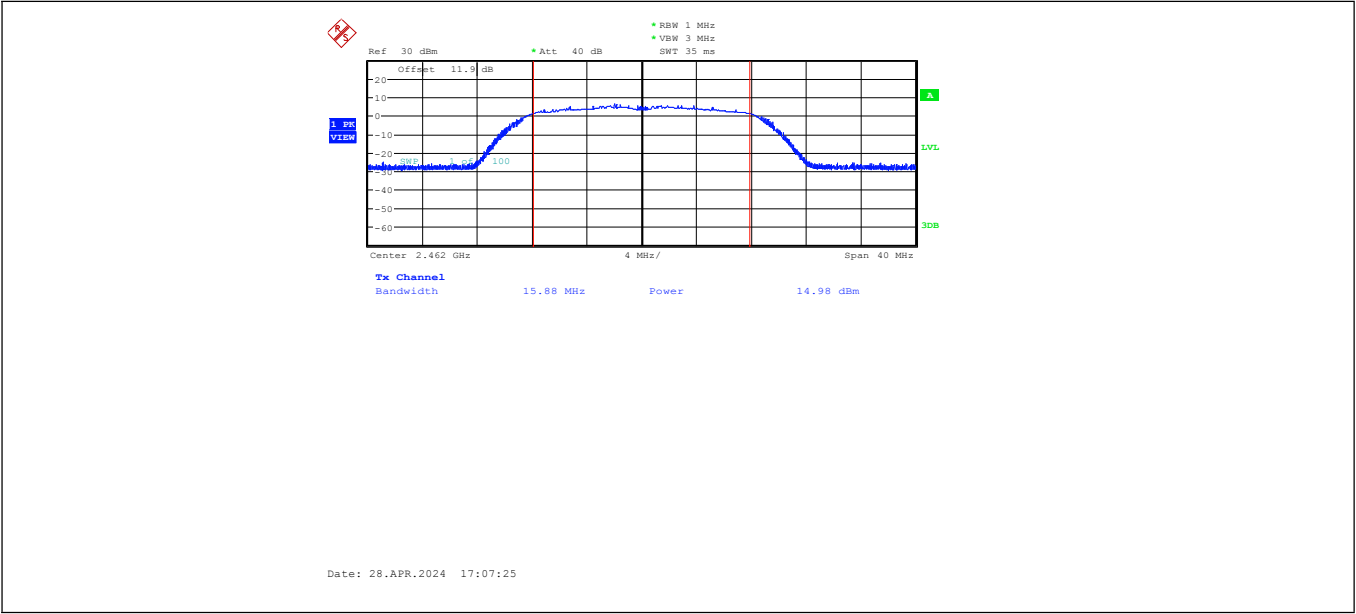
Date: 28.APR.2024 16:41:53

11N20SISO_Ant1_2437



Date: 28.APR.2024 16:54:50

11N20SISO_Ant1_2462



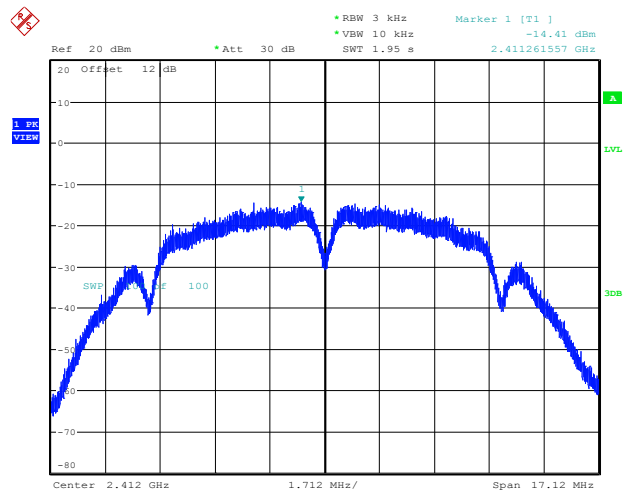
Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.41	≤8.00	PASS
		2437	-14.09	≤8.00	PASS
		2462	-13.56	≤8.00	PASS
11G	Ant1	2412	-17.20	≤8.00	PASS
		2437	-17.38	≤8.00	PASS
		2462	-17.21	≤8.00	PASS
11N20SISO	Ant1	2412	-17.21	≤8.00	PASS
		2437	-16.53	≤8.00	PASS
		2462	-16.73	≤8.00	PASS

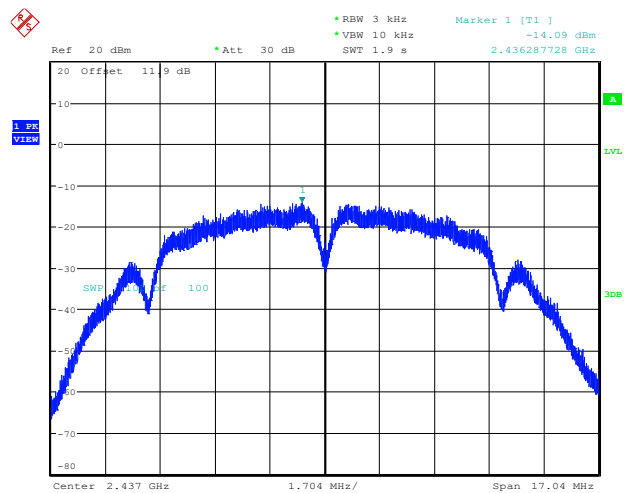
Test Graphs

11B_Ant1_2412



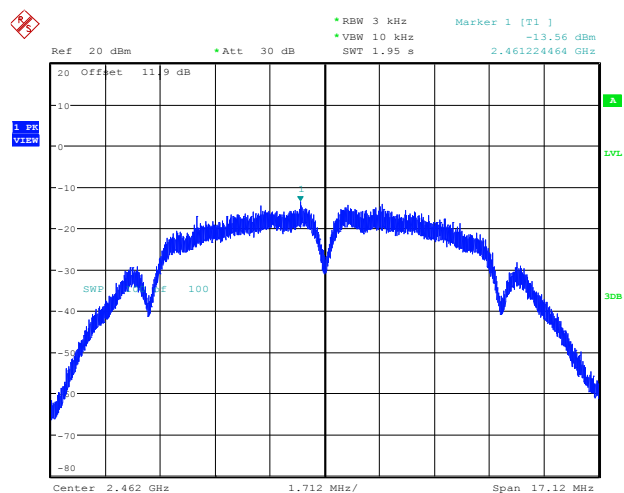
Date: 28.APR.2024 15:32:49

11B_Ant1_2437



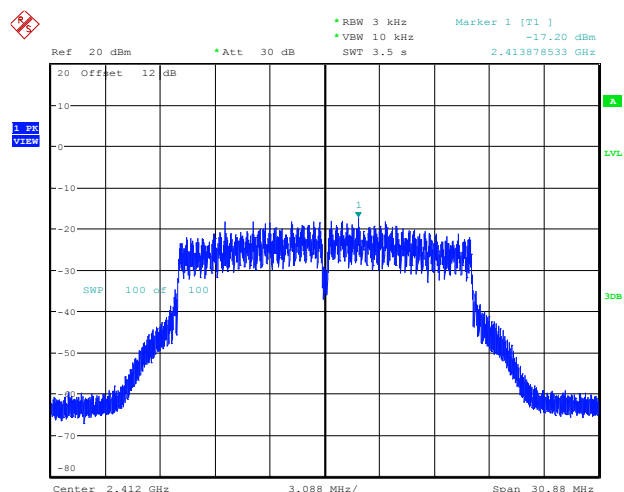
Date: 28.APR.2024 15:46:06

11B_Ant1_2462



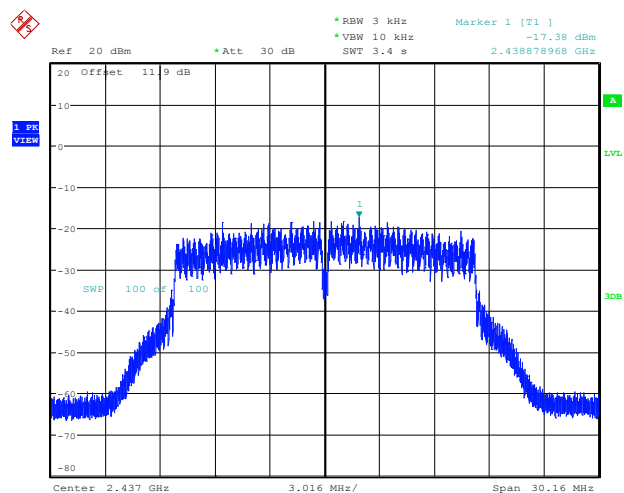
Date: 28.APR.2024 15:53:50

11G_Ant1_2412



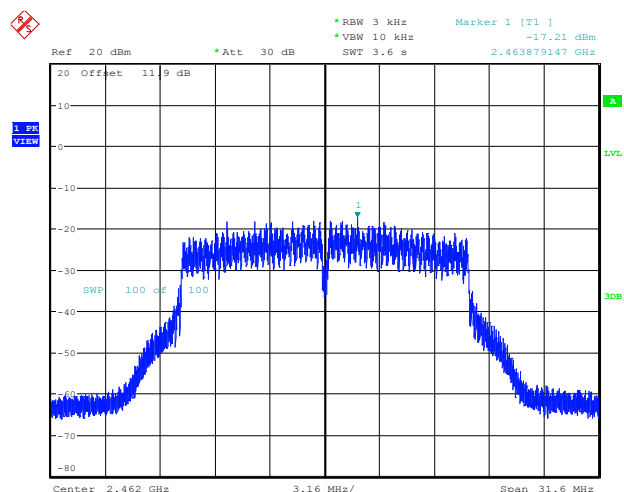
Date: 28.APR.2024 16:09:28

11G_Ant1_2437



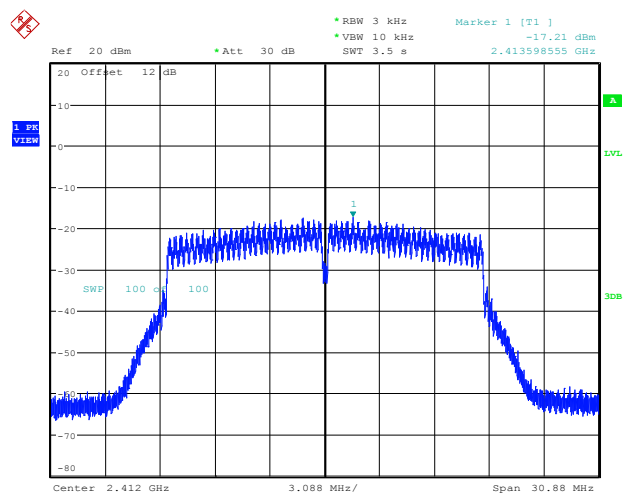
Date: 28.APR.2024 16:25:08

11G_Ant1_2462



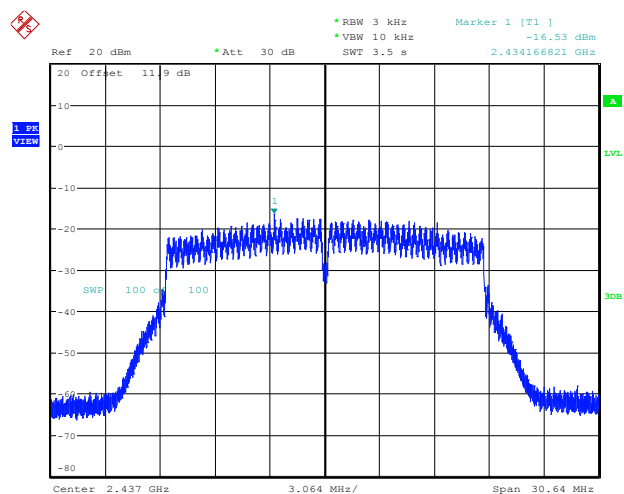
Date: 28.APR.2024 16:36:13

11N20SISO_Ant1_2412



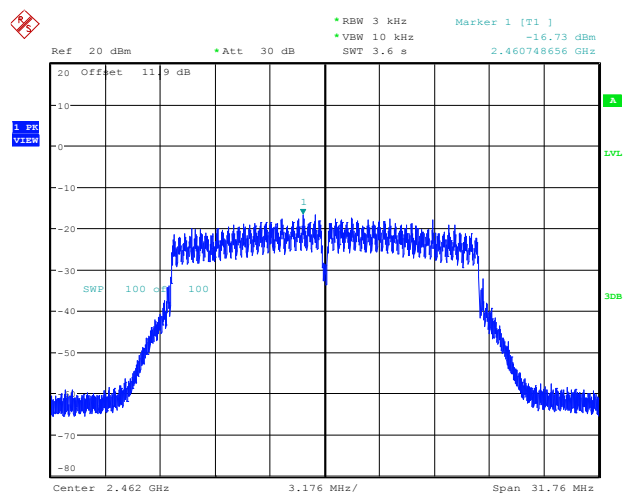
Date: 28.APR.2024 16:49:32

11N20SISO_Ant1_2437



Date: 28.APR.2024 17:02:30

11N20SISO_Ant1_2462



Date: 28.APR.2024 17:15:18

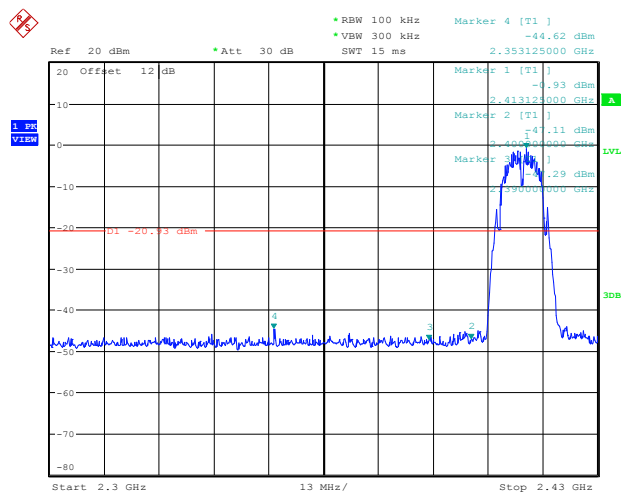
Appendix D: Band edge measurements

Test Result

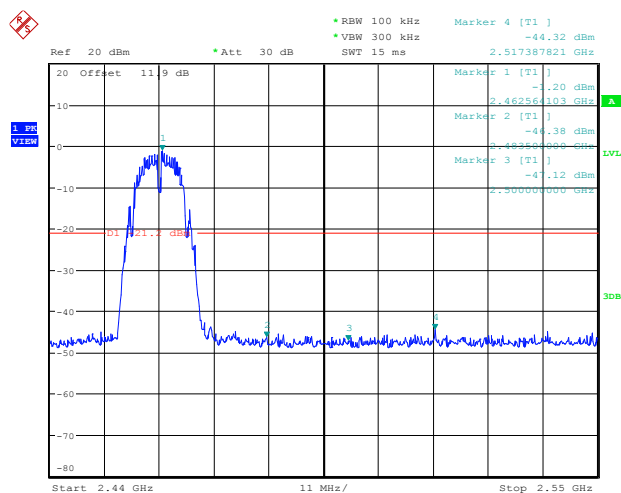
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.93	-44.62	≤-20.93	PASS
		High	2462	-1.20	-44.32	≤-21.2	PASS
11G	Ant1	Low	2412	-4.87	-44.66	≤-24.87	PASS
		High	2462	-4.71	-44.84	≤-24.71	PASS
11N20SISO	Ant1	Low	2412	-5.62	-44.79	≤-25.62	PASS
		High	2462	-4.17	-45	≤-24.17	PASS

Test Graphs

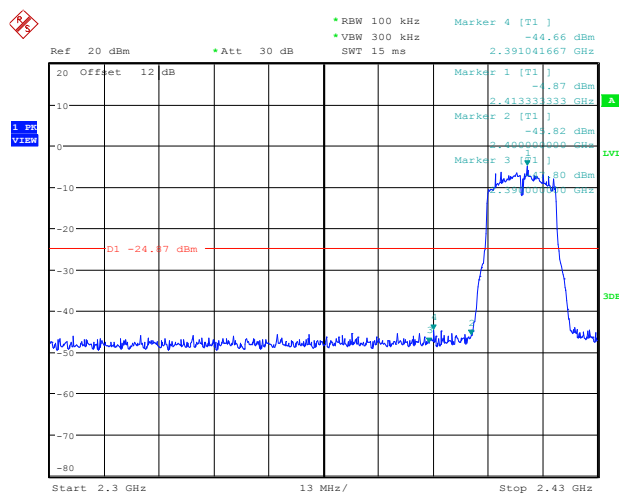
11B_Ant1_Low_2412



11B_Ant1_High_2462

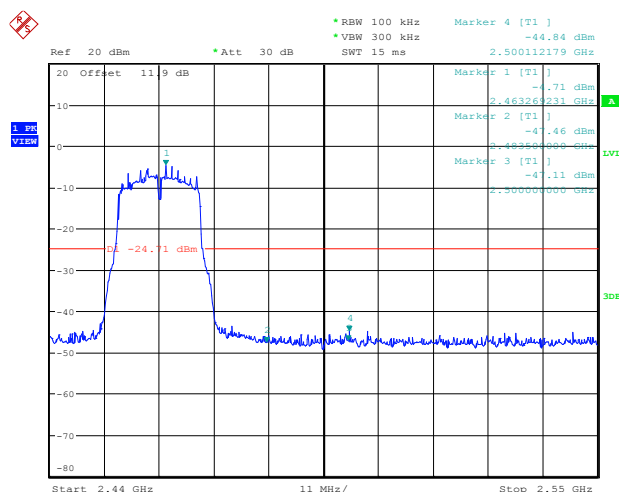


11G_Ant1_Low_2412



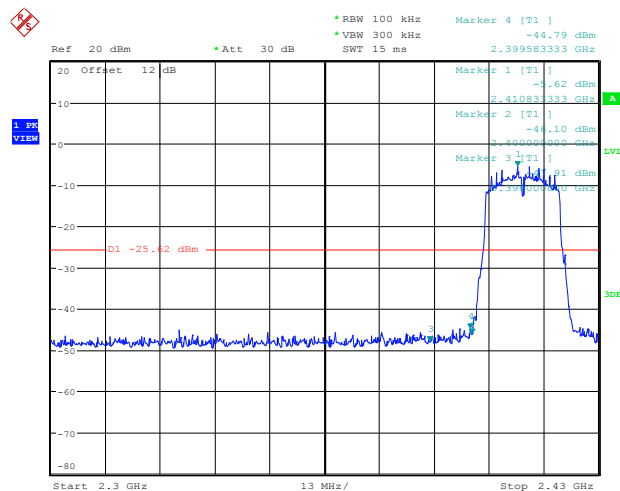
Date: 28.APR.2024 16:09:38

11G_Ant1_High_2462



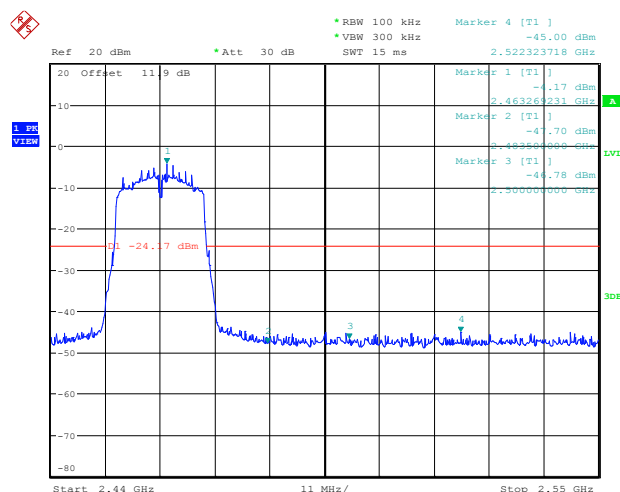
Date: 28.APR.2024 16:36:23

11N20SISO_Ant1_Low_2412



Date: 28.APR.2024 16:49:42

11N20SISO_Ant1_High_2462



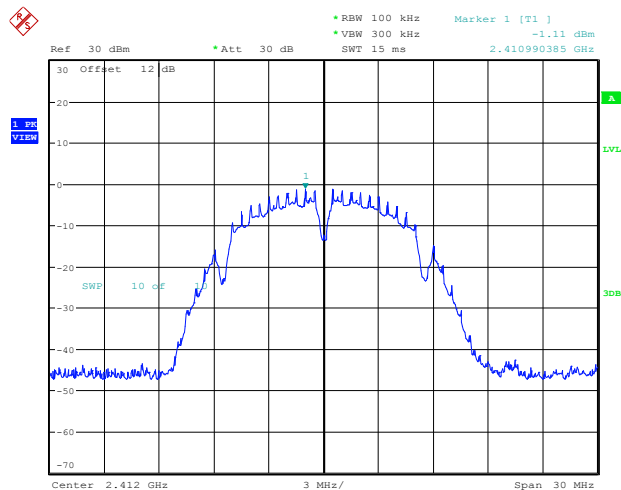
Date: 28.APR.2024 17:15:28

Appendix E: Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-55.02	≤ -21.11	PASS
			1000~26500	-1.11	-51	≤ -21.11	PASS
		2437	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-53.69	≤ -20.63	PASS
			1000~26500	-0.63	-52.4	≤ -20.63	PASS
		2462	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-55.11	≤ -21.35	PASS
			1000~26500	-1.35	-51.86	≤ -21.35	PASS
11G	Ant1	2412	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-55.34	≤ -24.61	PASS
			1000~26500	-4.61	-52.2	≤ -24.61	PASS
		2437	Reference	-4.86	-4.86	---	PASS
			30~1000	-4.86	-55.47	≤ -24.86	PASS
			1000~26500	-4.86	-52.24	≤ -24.86	PASS
		2462	Reference	-4.46	-4.46	---	PASS
			30~1000	-4.46	-55.11	≤ -24.46	PASS
			1000~26500	-4.46	-51.91	≤ -24.46	PASS
11N20SISO	Ant1	2412	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-55.55	≤ -24.71	PASS
			1000~26500	-4.71	-52	≤ -24.71	PASS
		2437	Reference	-4.57	-4.57	---	PASS
			30~1000	-4.57	-55.23	≤ -24.57	PASS
			1000~26500	-4.57	-51.82	≤ -24.57	PASS
		2462	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-55.42	≤ -24.73	PASS
			1000~26500	-4.73	-52.46	≤ -24.73	PASS

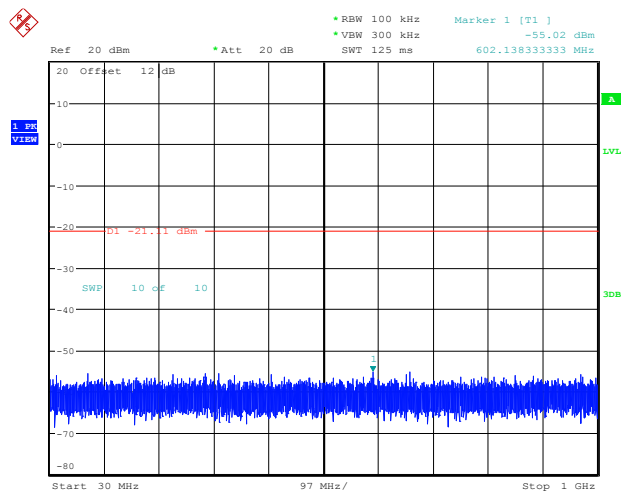
Test Graphs

11B_Ant1_2412_0~Reference



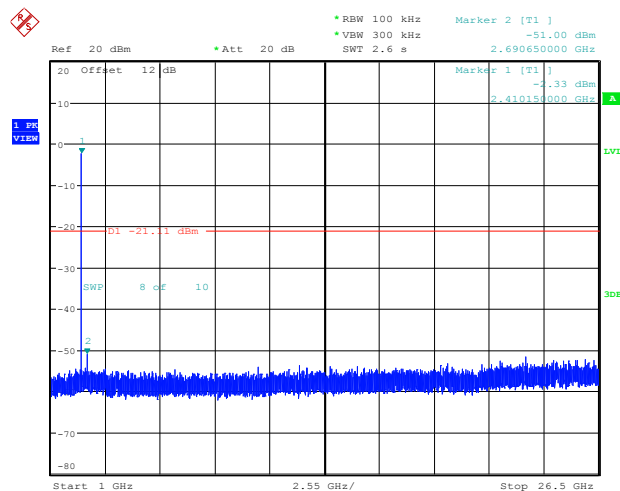
Date: 28.APR.2024 15:36:14

11B_Ant1_2412_30~1000



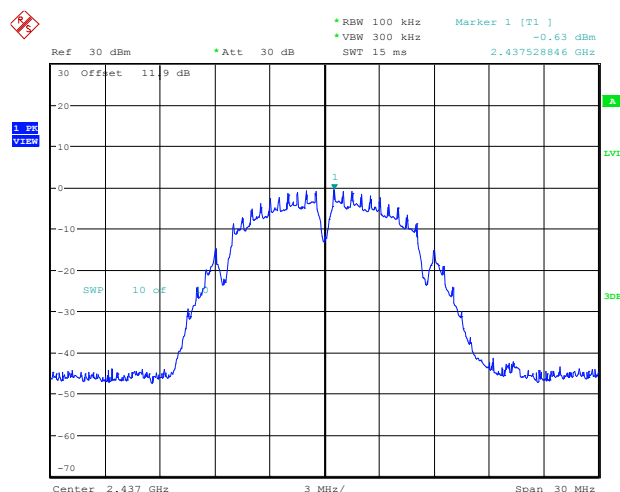
Date: 28.APR.2024 15:36:21

11B_Ant1_2412_1000~26500



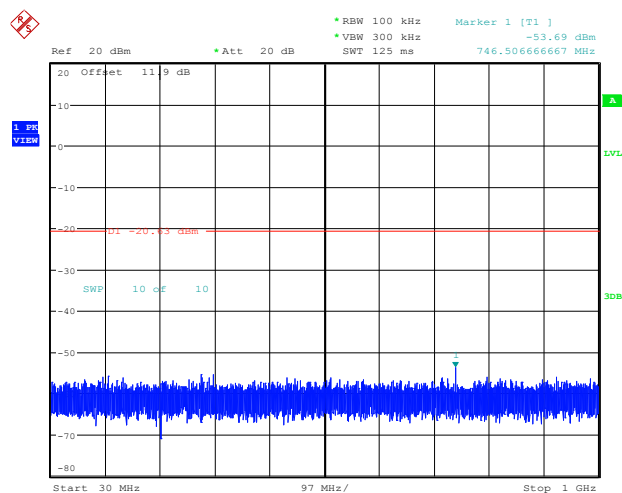
Date: 28.APR.2024 15:36:44

11B_Ant1_2437_0~Reference



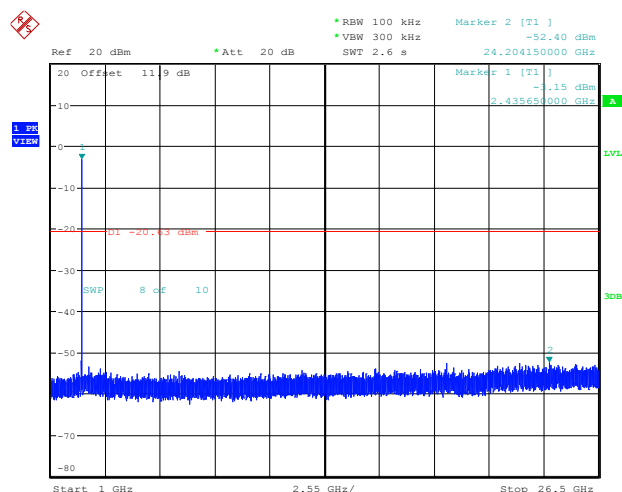
Date: 28.APR.2024 15:46:14

11B_Ant1_2437_30~1000



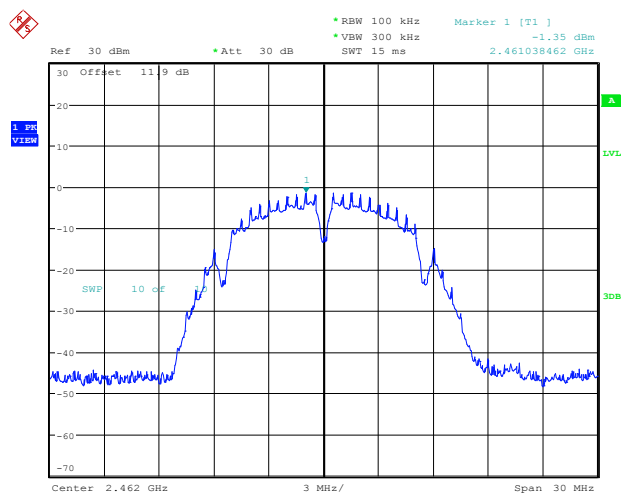
Date: 28.APR.2024 15:46:21

11B_Ant1_2437_1000~26500



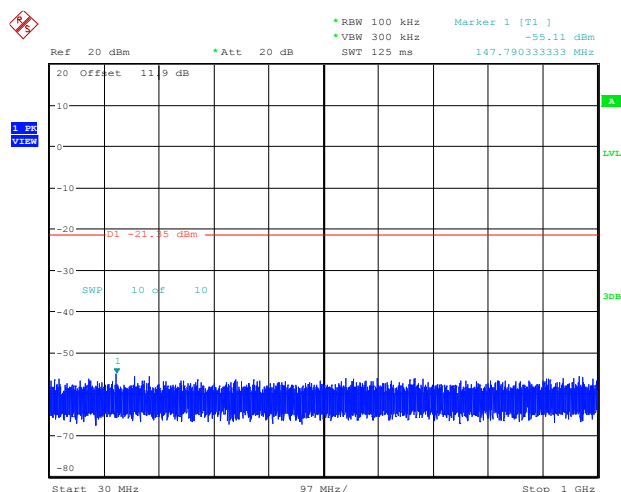
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11B_Ant1_2462_0~Reference



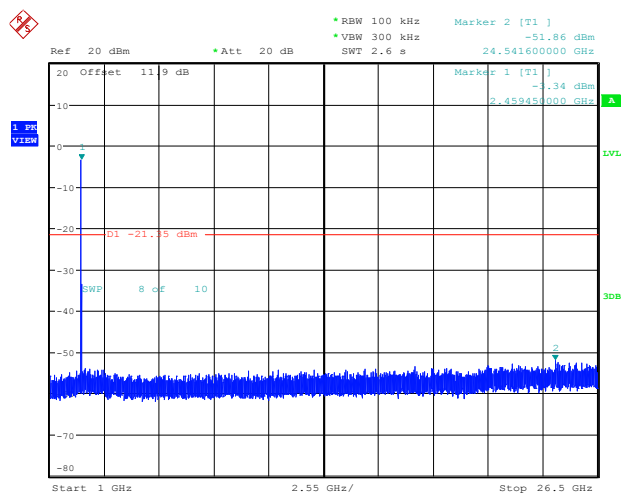
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11B_Ant1_2462_30~1000



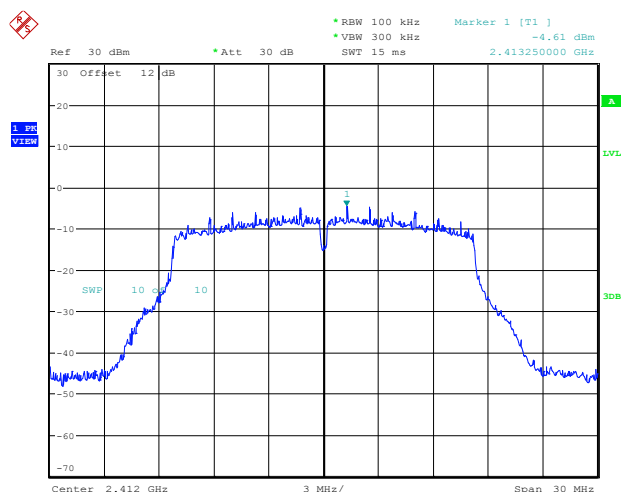
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11B_Ant1_2462_1000~26500



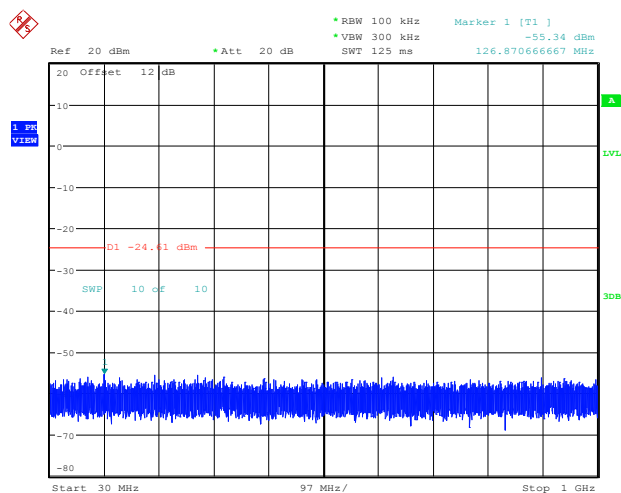
Date: 28.APR.2024 15:57:22

11G_Ant1_2412_0~Reference



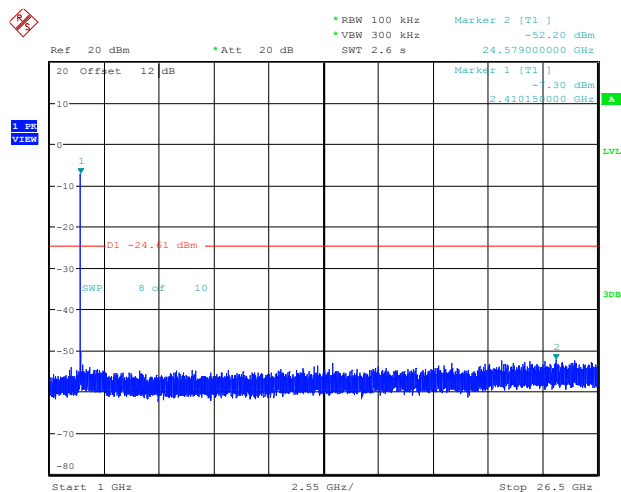
Date: 28.APR.2024 16:12:53

11G_Ant1_2412_30~1000



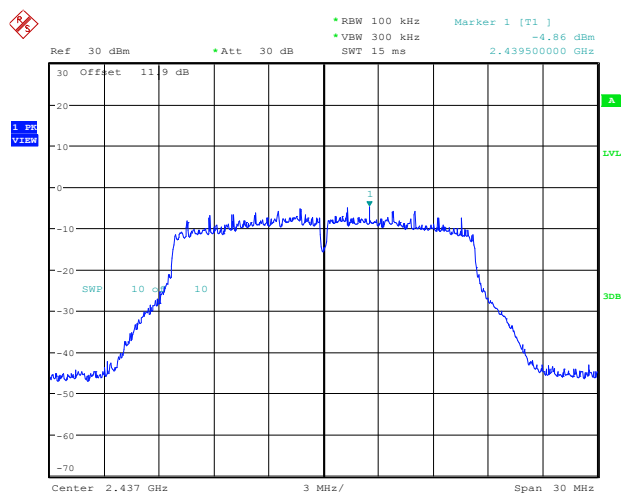
Date: 28.APR.2024 16:13:00

11G_Ant1_2412_1000~26500



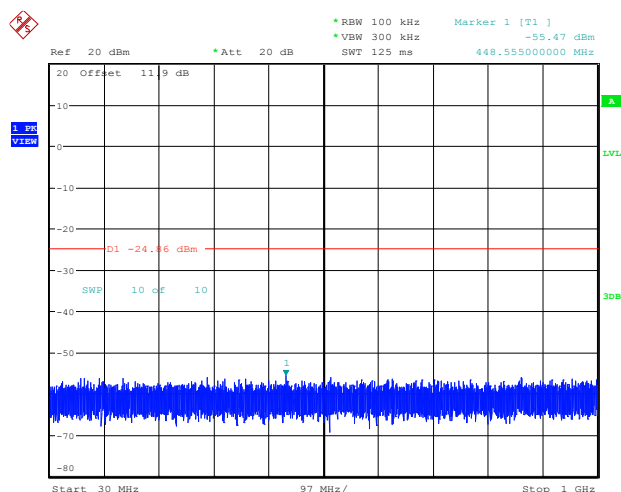
Date: 28.APR.2024 16:13:23

11G_Ant1_2437_0~Reference



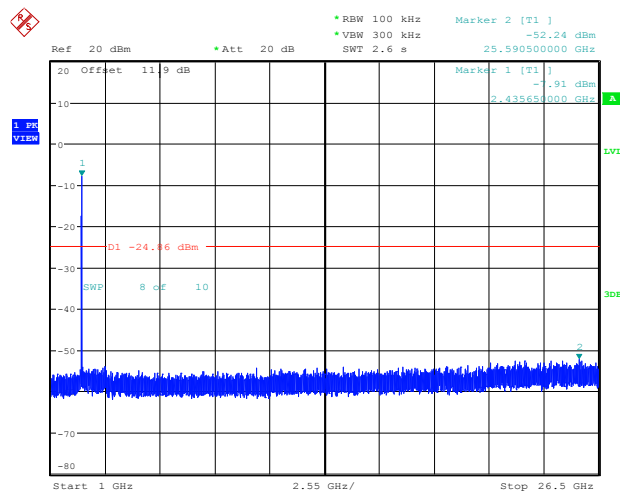
Date: 28.APR.2024 16:25:16

11G_Ant1_2437_30~1000



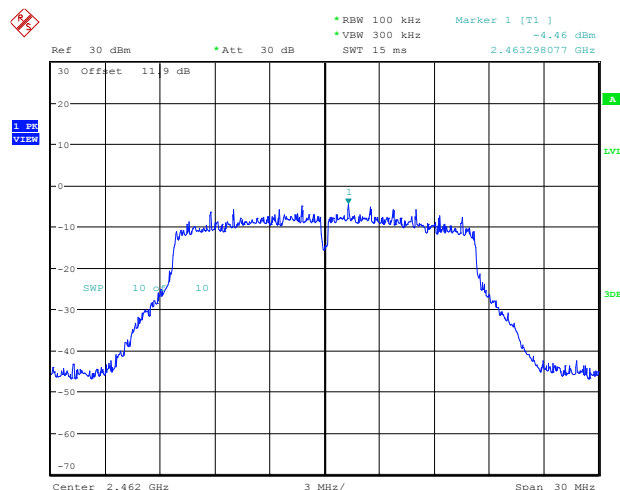
Date: 28.APR.2024 16:25:23

11G_Ant1_2437_1000~26500



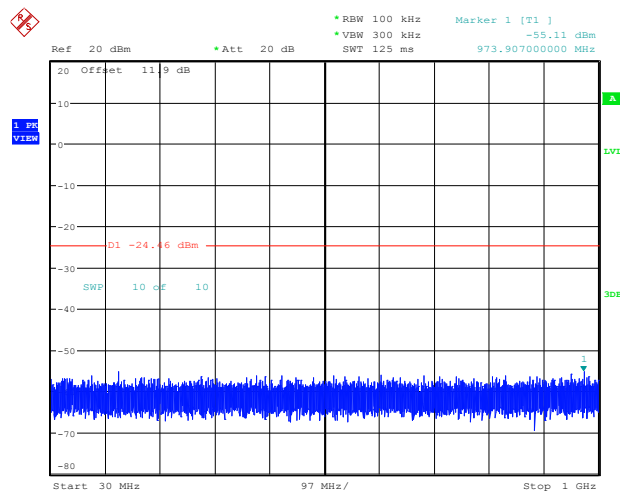
Date: 28.APR.2024 16:25:46

11G_Ant1_2462_0~Reference



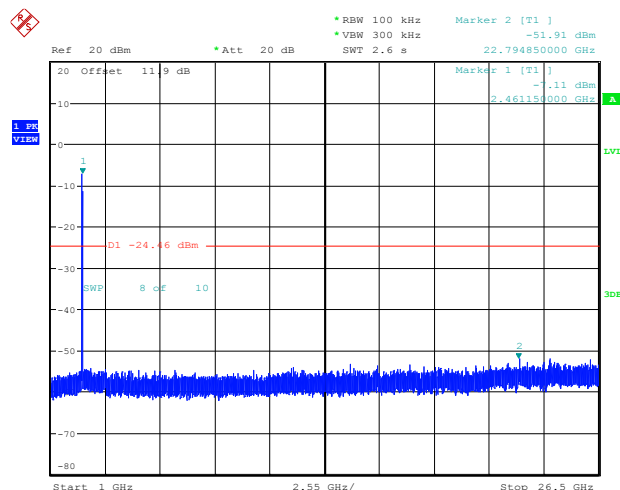
Date: 28.APR.2024 16:39:16

11G_Ant1_2462_30~1000



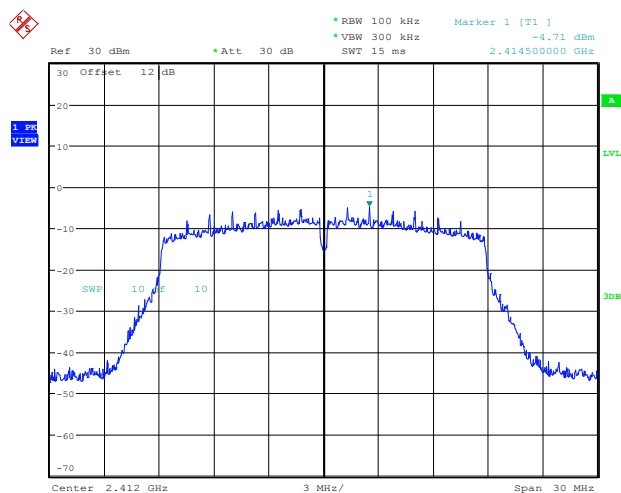
Date: 28.APR.2024 16:39:23

11G_Ant1_2462_1000~26500



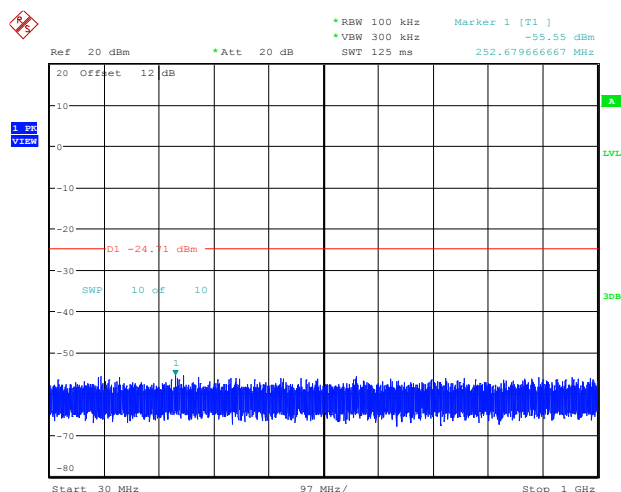
Date: 28.APR.2024 16:39:46

11N20SISO_Ant1_2412_0~Reference



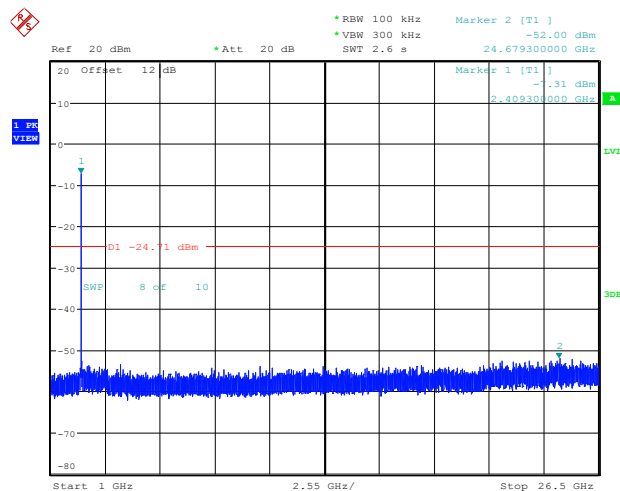
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11N20SISO_Ant1_2412_30~1000



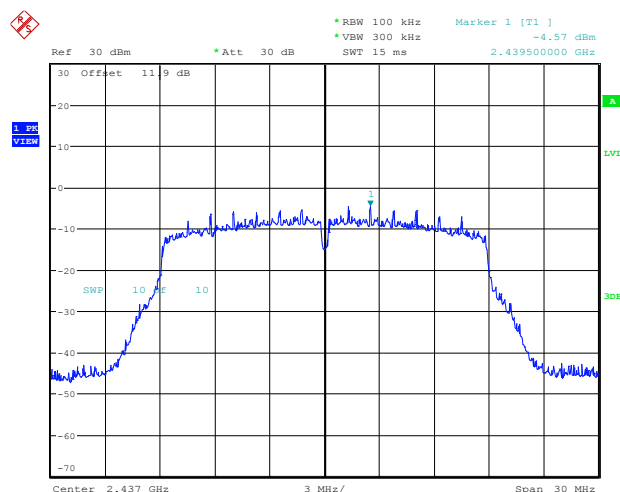
Date: 28.APR.2024 16:50:57

11N20SISO_Ant1_2412_1000~26500



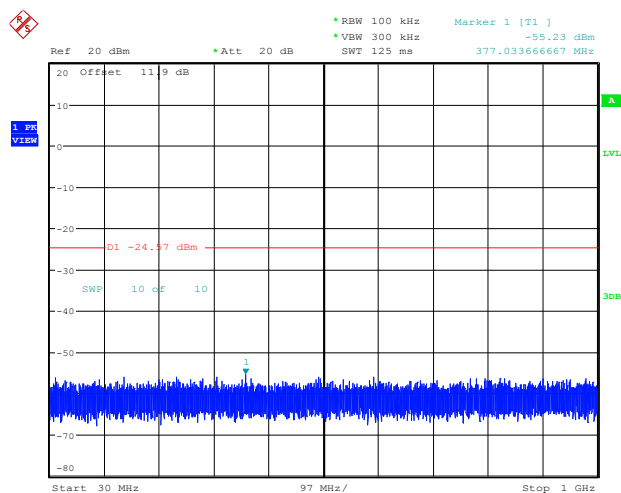
Date: 28.APR.2024 16:51:20

11N20SISO_Ant1_2437_0~Reference



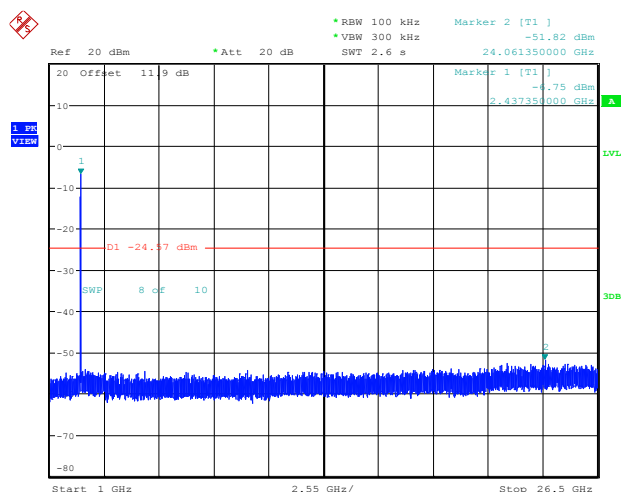
Date: 28.APR.2024 17:02:38

11N20SISO_Ant1_2437_30~1000



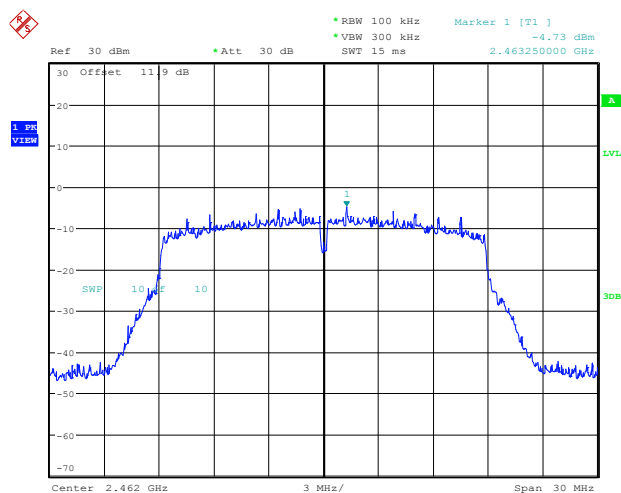
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11N20SISO_Ant1_2437_1000~26500



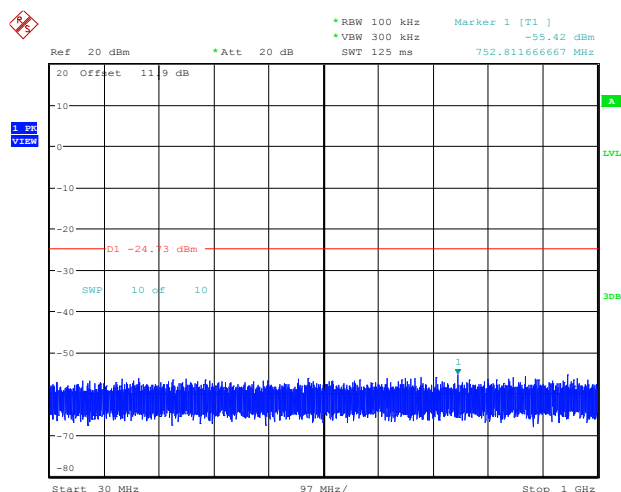
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11N20SISO_Ant1_2462_0~Reference



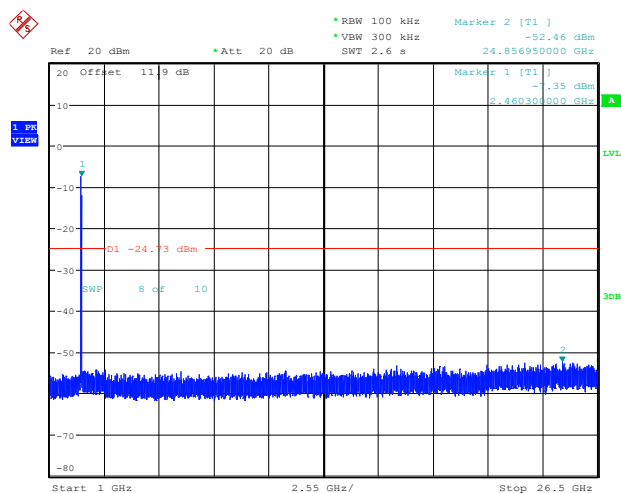
Date: 28.APR.2024 17:16:36

11N20SISO_Ant1_2462_30~1000



Date: 28.APR.2024 17:16:43

11N20SISO_Ant1_2462_1000~26500



Date: 28.APR.2024 17:17:06

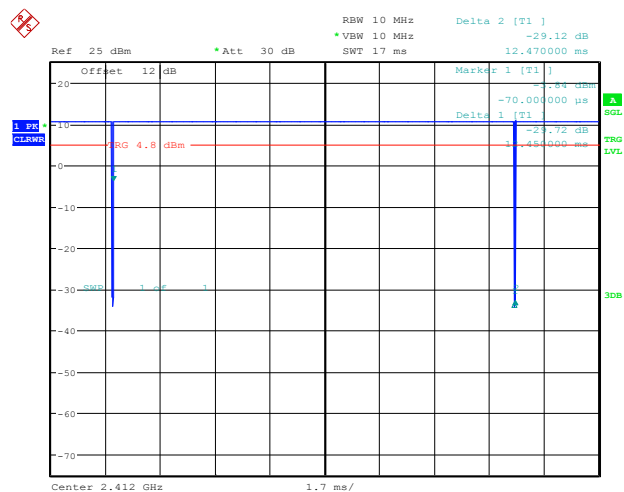
Appendix F: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	12.45	12.47	99.84
		2437	12.45	12.48	99.76
		2462	12.46	12.50	99.68
11G	Ant1	2412	2.06	2.10	98.10
		2437	2.06	2.10	98.10
		2462	2.07	2.10	98.57
11N20SISO	Ant1	2412	1.92	1.96	97.96
		2437	1.92	1.96	97.96
		2462	1.92	1.96	97.96

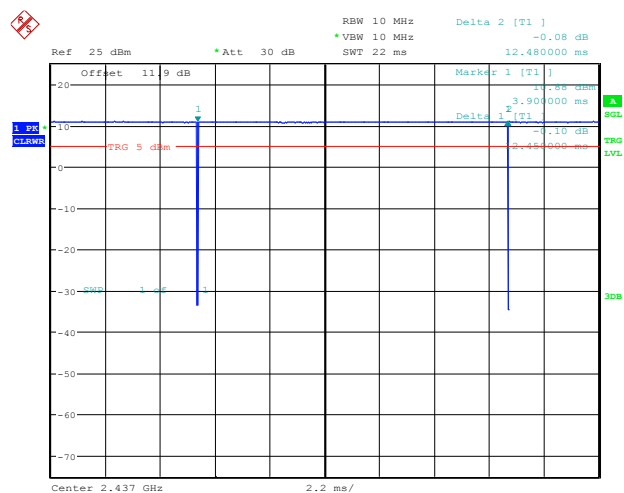
Test Graphs

11B_Ant1_2412



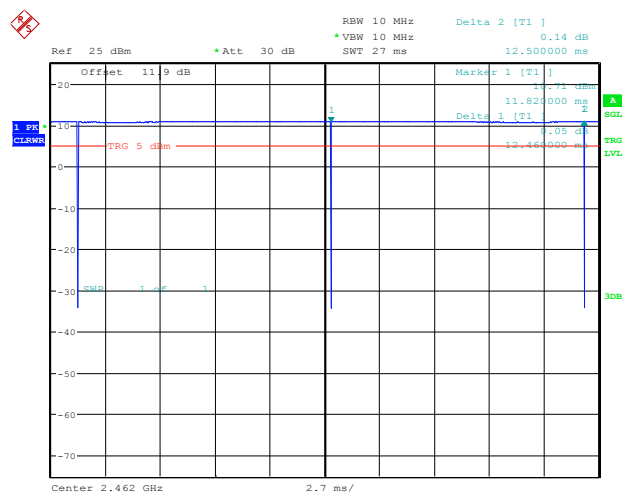
Date: 28.APR.2024 15:27:35

11B_Ant1_2437



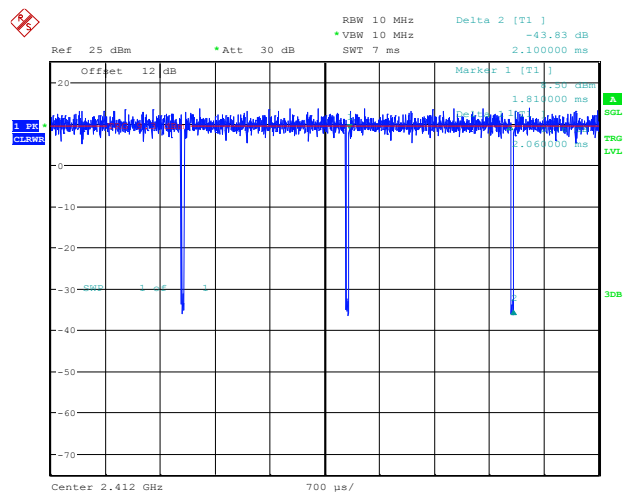
Date: 28.APR.2024 15:41:04

11B_Ant1_2462



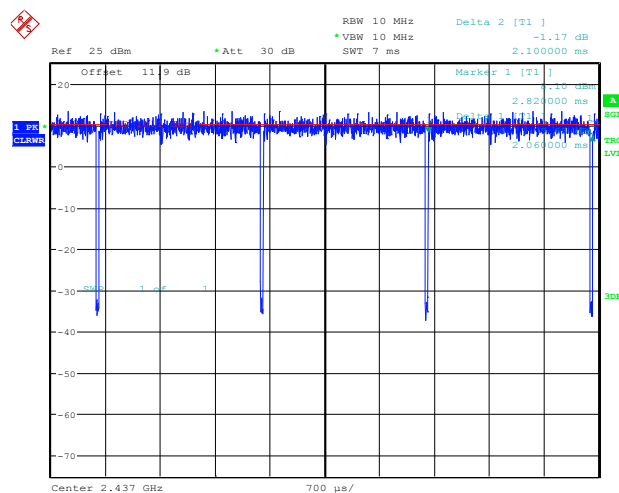
Date: 28.APR.2024 15:47:57

11G_Ant1_2412



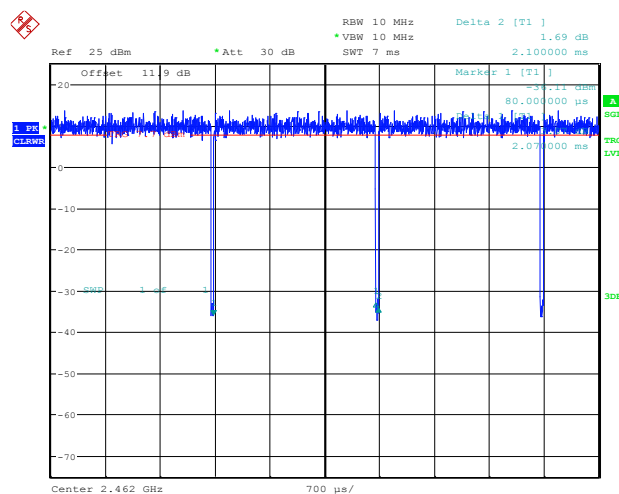
Date: 28.APR.2024 16:01:10

11G_Ant1_2437



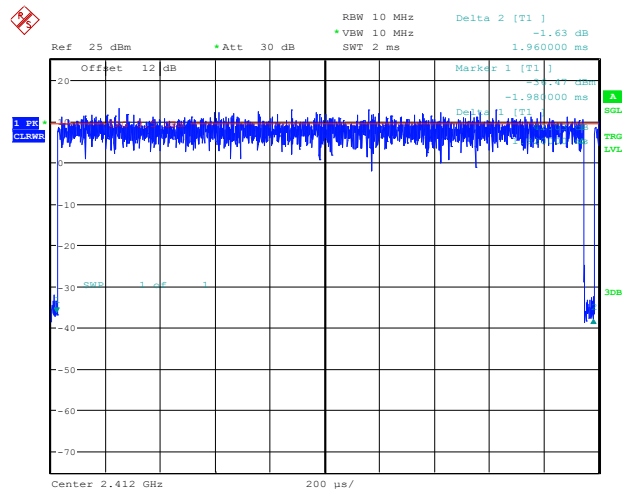
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11G_Ant1_2462



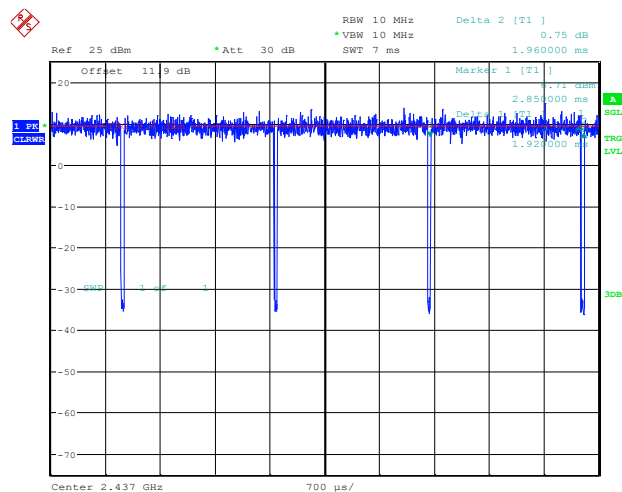
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11N20SISO_Ant1_2412



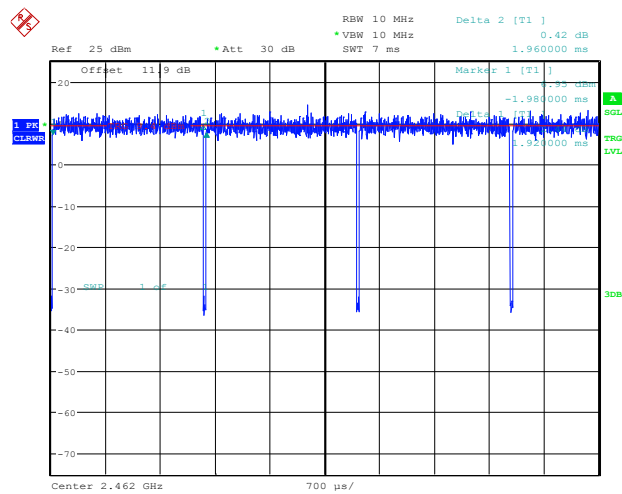
Date: 28.APR.2024 16:41:15

11N20SISO_Ant1_2437



Date: 28.APR.2024 16:51:54

11N20SISO_Ant1_2462



Date: 28.APR.2024 17:05:45

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

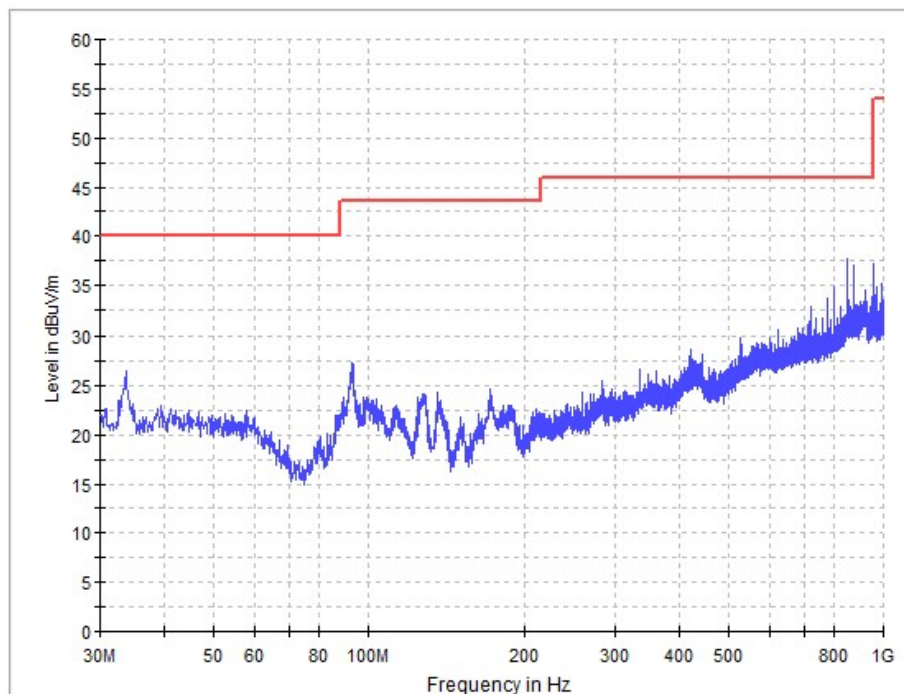
Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBμV/m)	Level (dBμV/m)	Polarity (Horizontal/Vertical)	Limit (dBμV/m)	Margin (dB)	Note
33.759	0.7	12.3	21.2	34.2	Vertical	40.0	5.8	QP
57.645	0.8	13.0	15.1	28.9	Vertical	40.0	11.1	QP
93.171	1.1	11.9	17.2	30.2	Vertical	43.5	13.3	QP
172.347	1.5	9.0	15.0	25.5	Vertical	43.5	18.0	QP
494.63	2.7	16.1	9.8	28.6	Vertical	46.0	17.4	QP

852.075	3.8	20.1	10.6	34.5	Vertical	46.0	11.5	QP
33.638	0.7	12.3	12.0	25.0	Horizontal	40	15.0	QP
93.171	1.1	11.9	13.1	26.1	Horizontal	43.5	17.4	QP
35.124	0.6	12.3	10.1	23.0	Horizontal	40	17.0	QP
171.62	1.5	9.0	12.7	23.2	Horizontal	43.5	20.3	QP
420.061	2.5	15.5	9.3	27.3	Horizontal	46	18.7	QP
852.075	3.8	20.1	12.4	36.3	Horizontal	46	9.7	QP

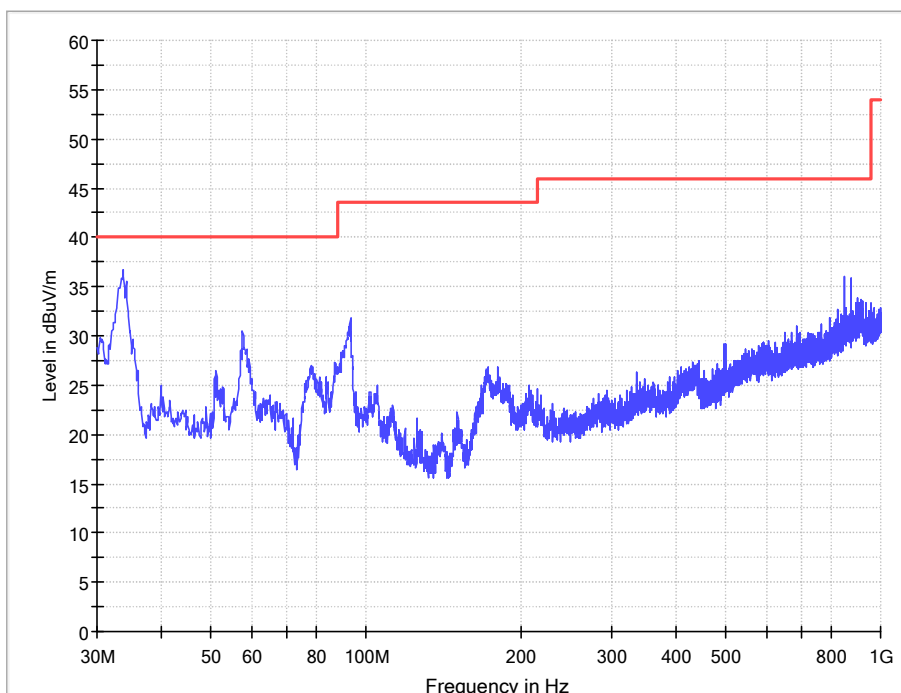
Remark: Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

30MHz-1GHz

Horizontal



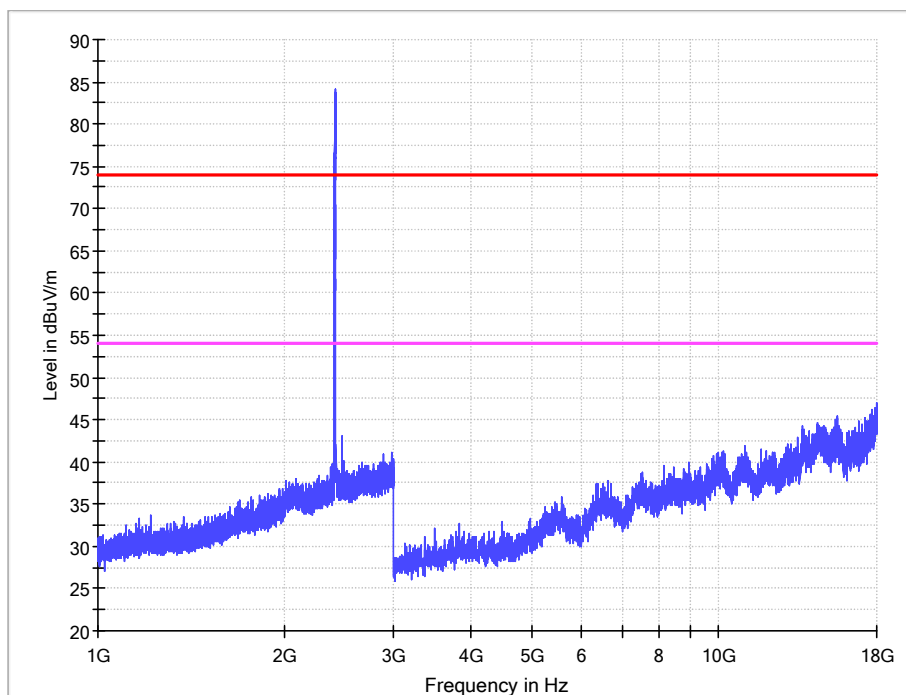
Vertical



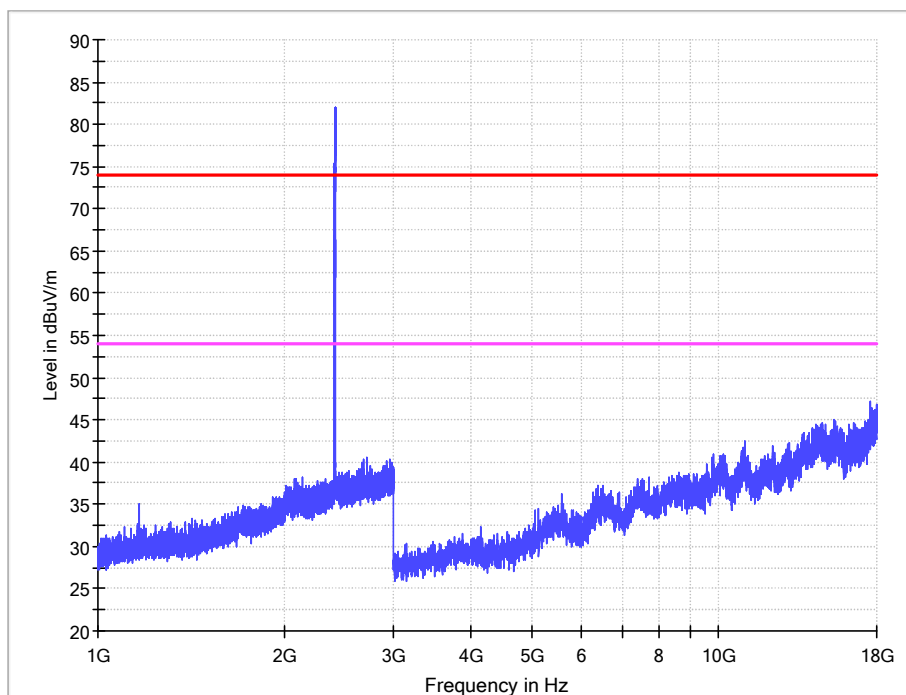
1-18G

802.11b CH1

Horizontal



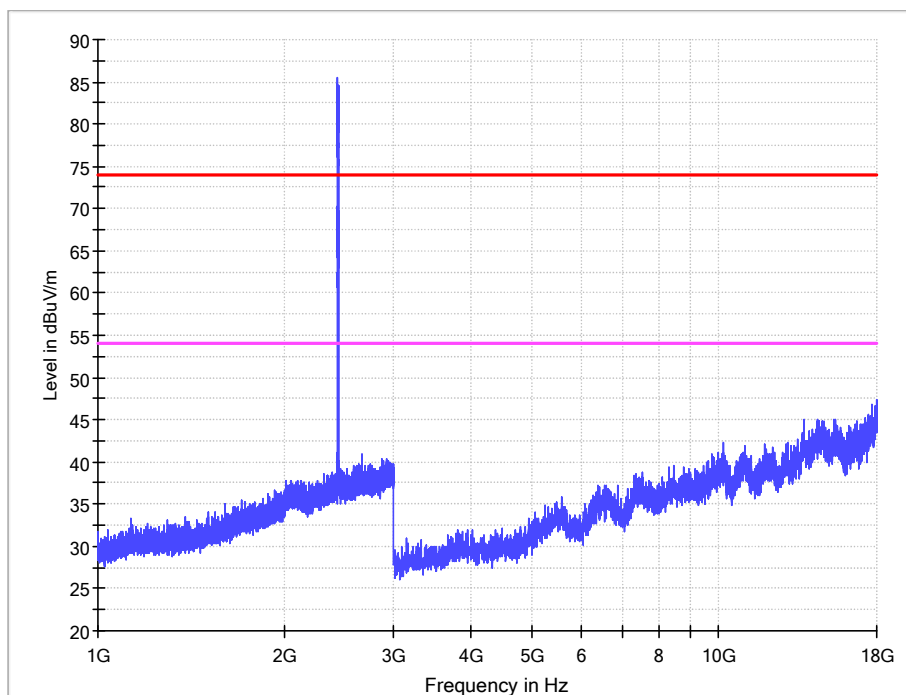
Vertical



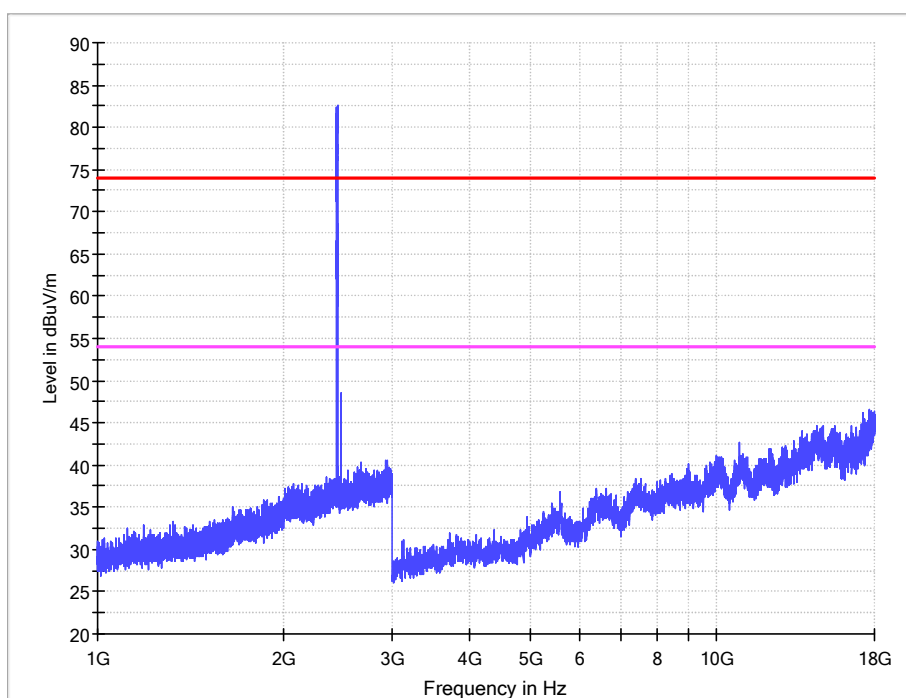
1-18G

802.11b CH6

Horizontal



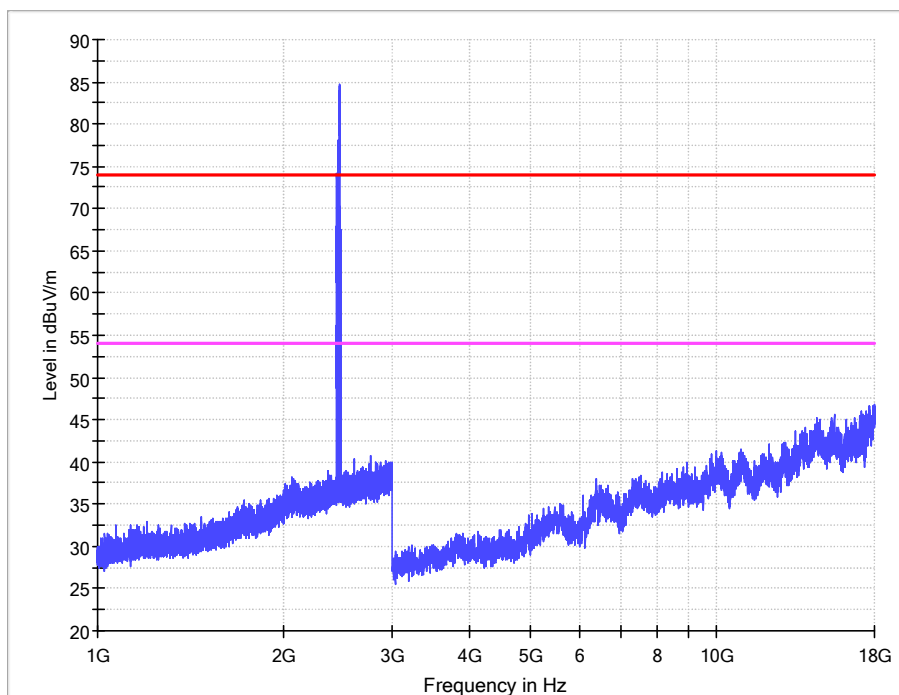
Vertical



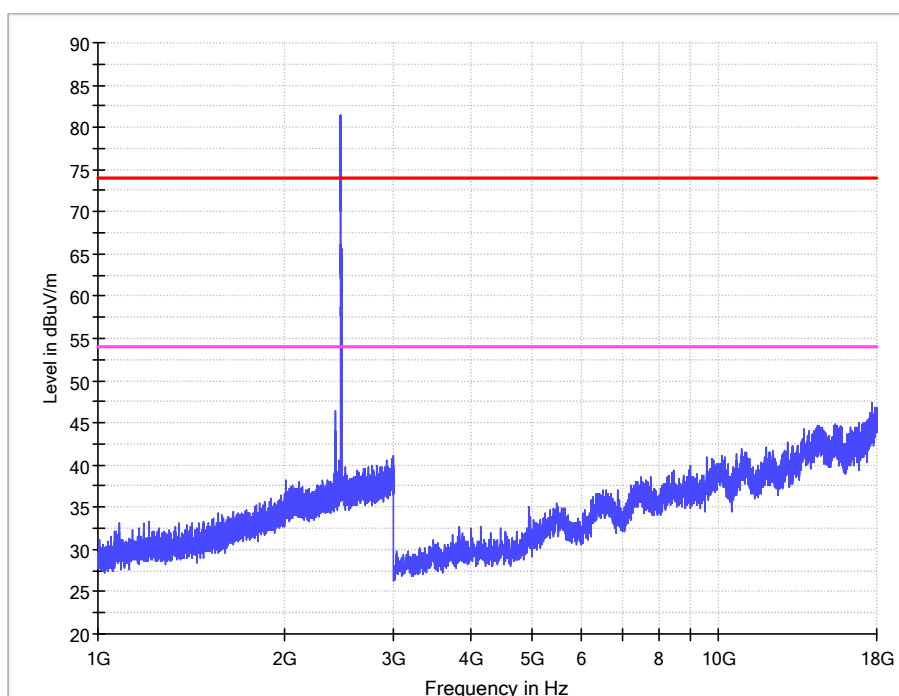
1-18G

802.11b CH11

Horizontal



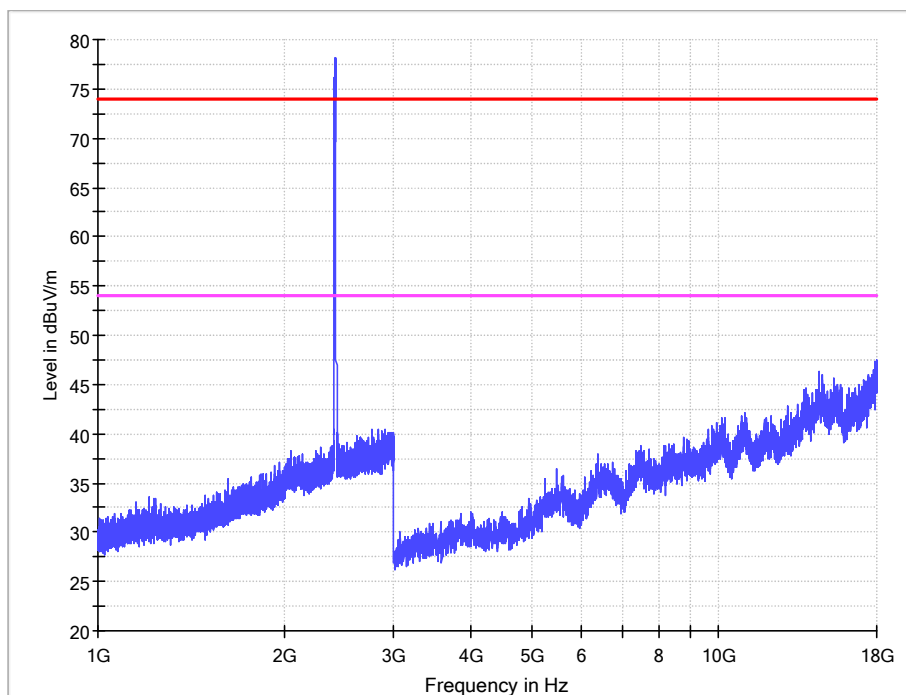
Vertical



1-18G

802.11g CH1

Horizontal



Vertical

