

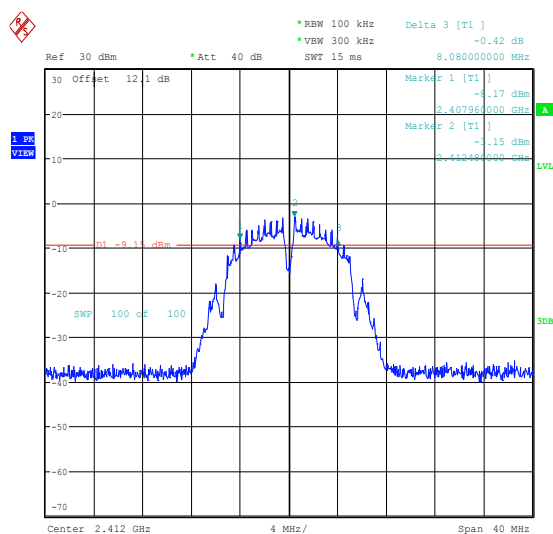
Annex A WLAN Test Data

Appendix A: DTS Bandwidth

Test Result

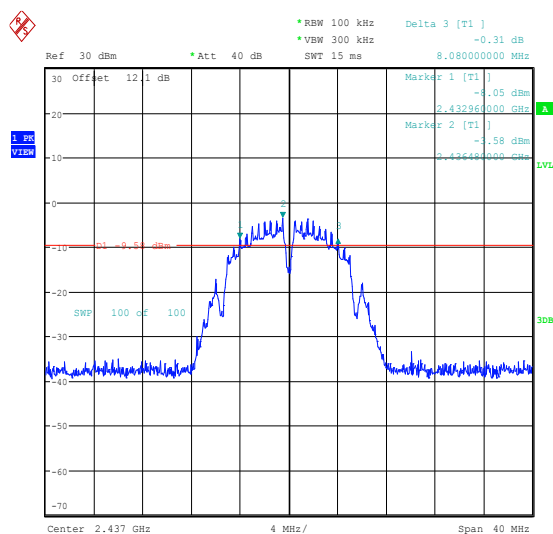
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.08	2407.96	2416.04	0.5	PASS
11B	Ant1	2437	8.08	2432.96	2441.04	0.5	PASS
11B	Ant1	2462	8.08	2457.96	2466.04	0.5	PASS
11G	Ant1	2412	15.36	2404.44	2419.80	0.5	PASS
11G	Ant1	2437	15.40	2429.12	2444.52	0.5	PASS
11G	Ant1	2462	14.80	2454.48	2469.28	0.5	PASS
11N20SISO	Ant1	2412	15.64	2404.48	2420.12	0.5	PASS
11N20SISO	Ant1	2437	15.32	2429.24	2444.56	0.5	PASS
11N20SISO	Ant1	2462	15.08	2454.48	2469.56	0.5	PASS

Test Graphs



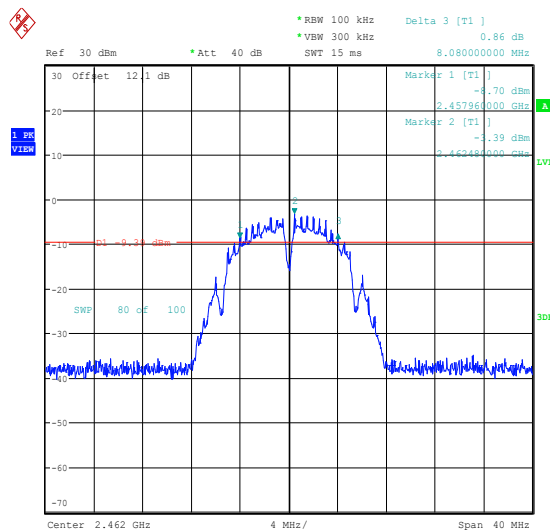
Date: 19.DEC.2024 15:01:08

11B-Ant1-2412-PASS



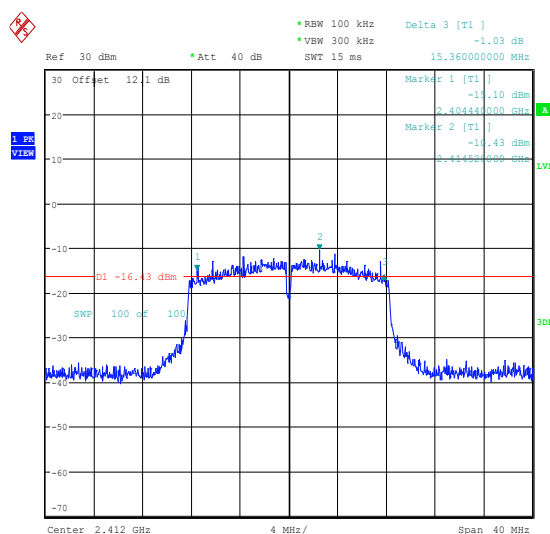
Date: 19.DEC.2024 15:11:49

11B-Ant1-2437-PASS



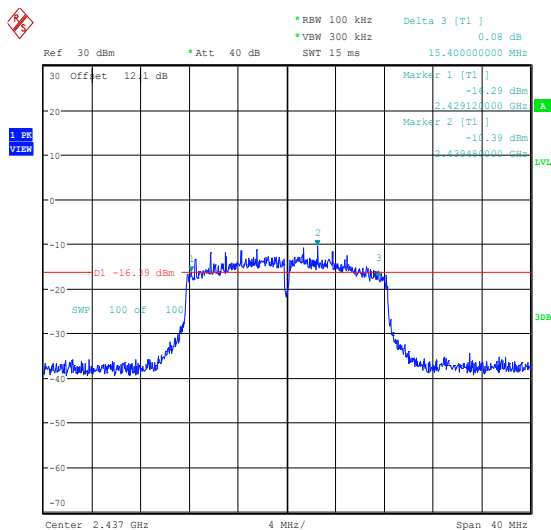
Date: 19.DEC.2024 15:19:24

11B-Ant1-2462-PASS



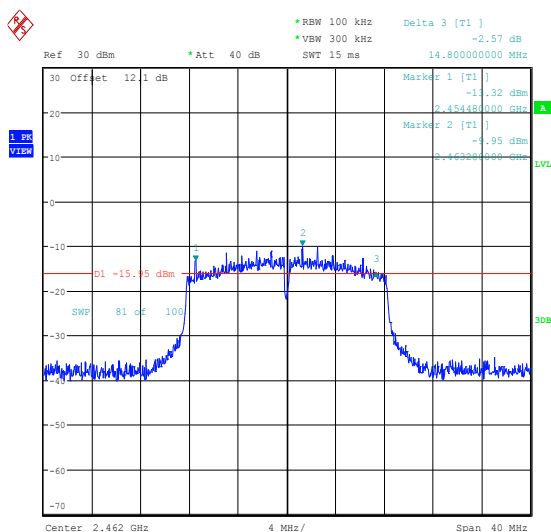
Date: 19.DEC.2024 15:34:29

11G-Ant1-2412-PASS



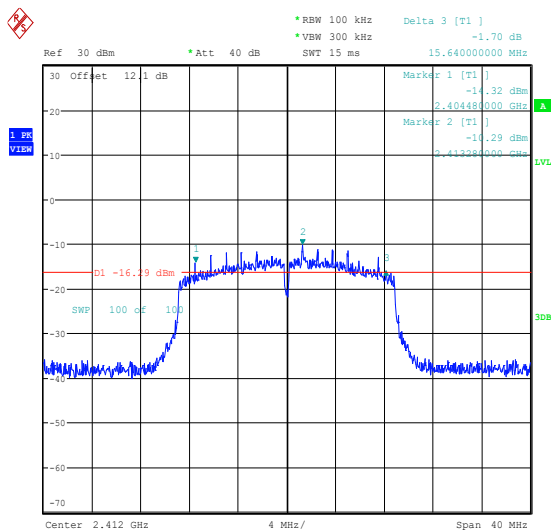
Date: 19.DEC.2024 15:48:44

11G-Ant1-2437-PASS



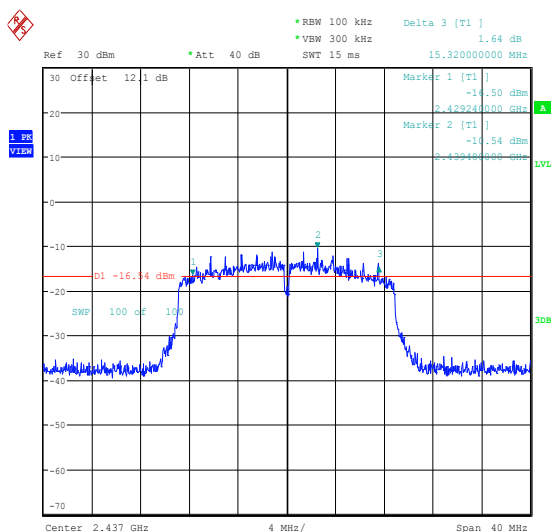
Date: 19.DEC.2024 15:59:33

11G-Ant1-2462-PASS



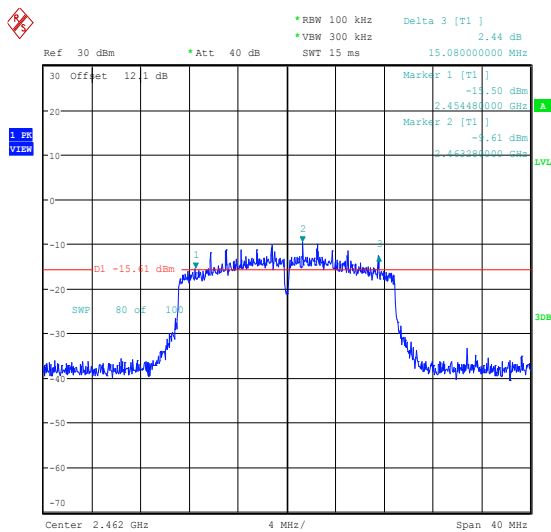
Date: 19.DEC.2024 16:14:28

11N20SISO-Ant1-2412-PASS



Date: 19.DEC.2024 16:29:00

11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

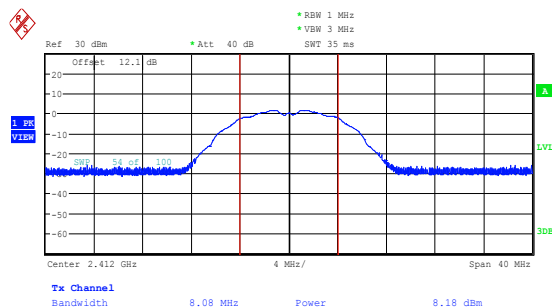
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency [MHz]	Peak Power[dBm]	Conducted Power Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	8.18	≤30.00	1.26	≤36.00	PASS
11B	Ant1	2437	7.96	≤30.00	1.04	≤36.00	PASS
11B	Ant1	2462	8.38	≤30.00	1.46	≤36.00	PASS
11G	Ant1	2412	8.79	≤30.00	1.87	≤36.00	PASS
11G	Ant1	2437	8.60	≤30.00	1.68	≤36.00	PASS
11G	Ant1	2462	8.99	≤30.00	2.07	≤36.00	PASS
11N20SISO	Ant1	2412	8.46	≤30.00	1.54	≤36.00	PASS
11N20SISO	Ant1	2437	8.34	≤30.00	1.42	≤36.00	PASS
11N20SISO	Ant1	2462	8.89	≤30.00	1.97	≤36.00	PASS

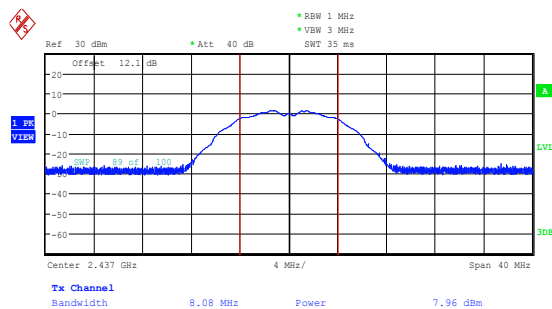
Note: The Duty Cycle Factor is compensated in the graph.

Test Graphs Peak



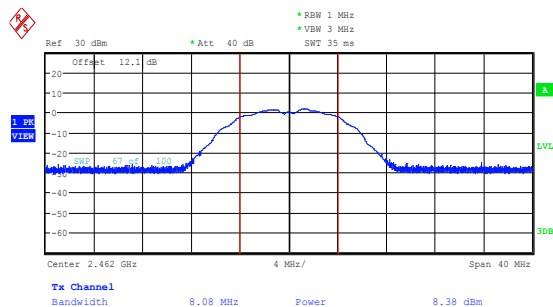
Date: 19.DEC.2024 15:01:33

11B-Ant1-2412-PASS



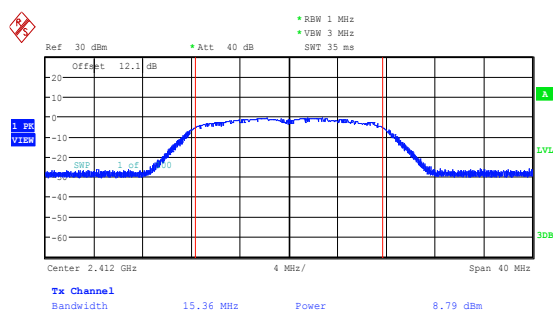
Date: 19.DEC.2024 15:12:12

11B-Ant1-2437-PASS



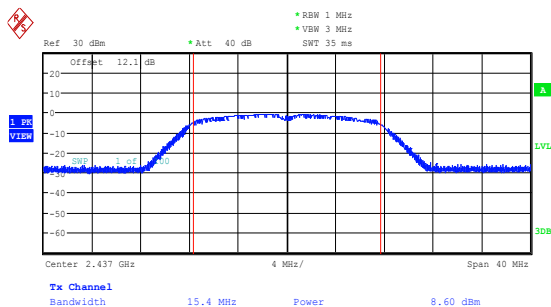
Date: 19.DEC.2024 15:19:44

11B-Ant1-2462-PASS



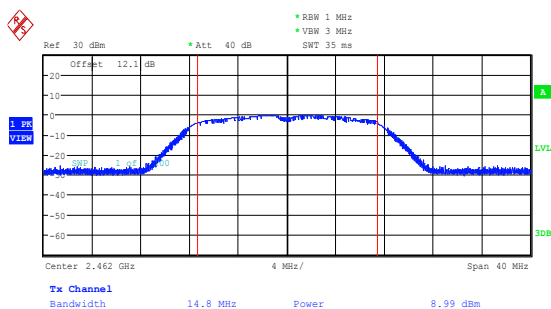
Date: 19.DEC.2024 15:35:08

11G-Ant1-2412-PASS



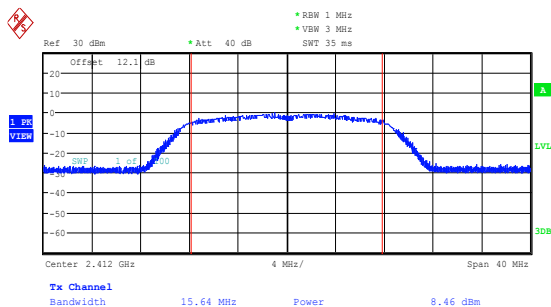
Date: 19.DEC.2024 15:49:15

11G-Ant1-2437-PASS



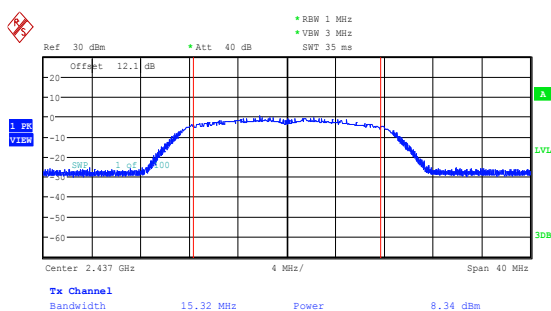
Date: 19.DEC.2024 16:00:06

11G-Ant1-2462-PASS



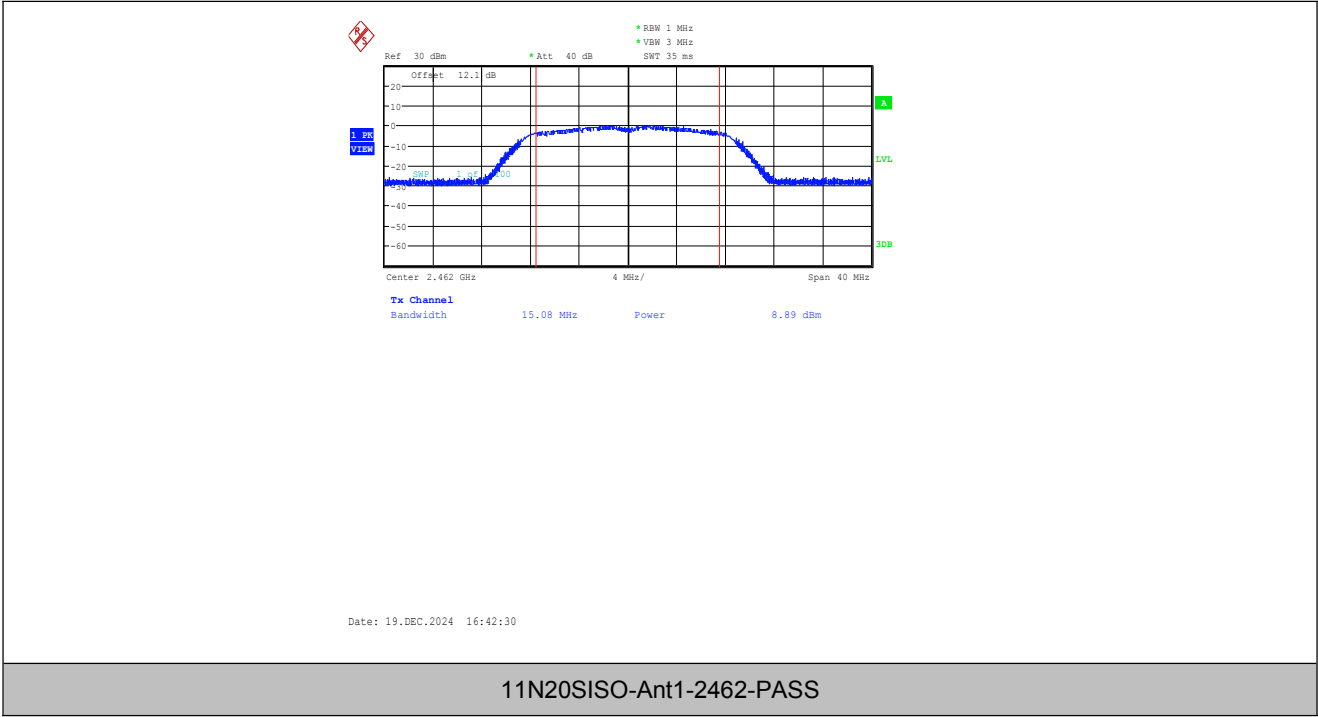
Date: 19.DEC.2024 16:15:06

11N20SISO-Ant1-2412-PASS



Date: 19.DEC.2024 16:29:51

11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

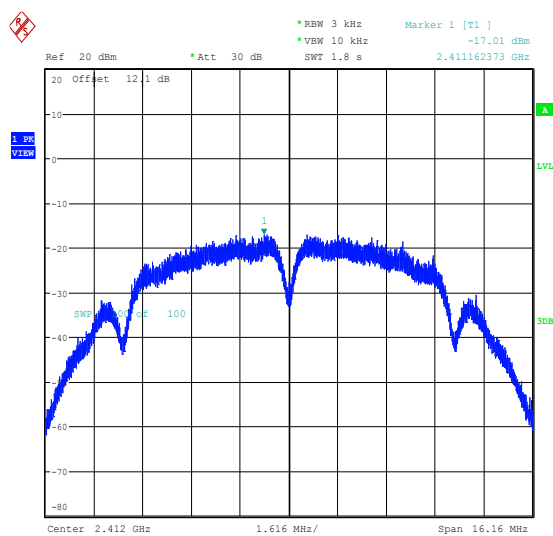
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.01	≤8.00	PASS
11B	Ant1	2437	-15.50	≤8.00	PASS
11B	Ant1	2462	-16.65	≤8.00	PASS
11G	Ant1	2412	-23.03	≤8.00	PASS
11G	Ant1	2437	-23.13	≤8.00	PASS
11G	Ant1	2462	-22.62	≤8.00	PASS
11N20SISO	Ant1	2412	-23.32	≤8.00	PASS
11N20SISO	Ant1	2437	-22.51	≤8.00	PASS
11N20SISO	Ant1	2462	-22.58	≤8.00	PASS

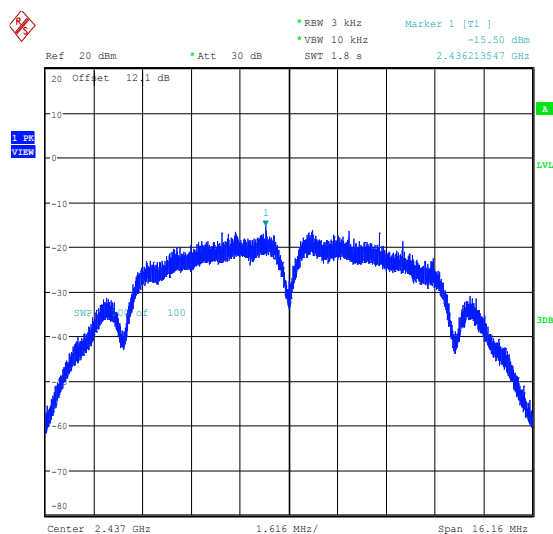
Note: The Duty Cycle Factor is compensated in the graph.

Test Graphs



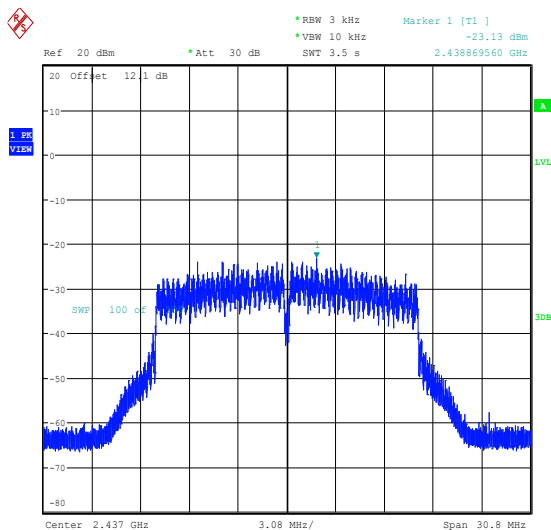
Date: 19.DEC.2024 15:05:33

11B-Ant1-2412-PASS



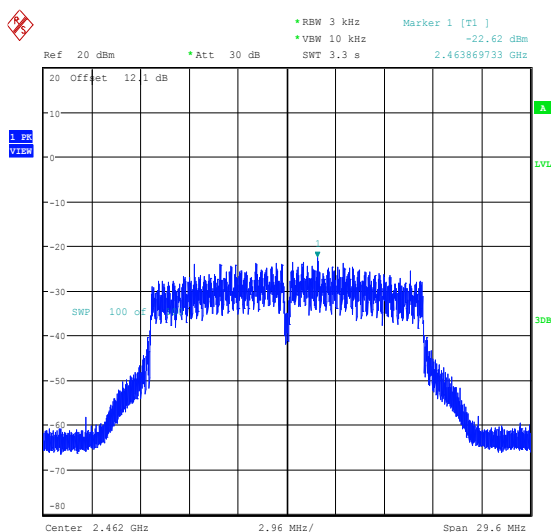
Date: 19.DEC.2024 15:16:12

11B-Ant1-2437-PASS



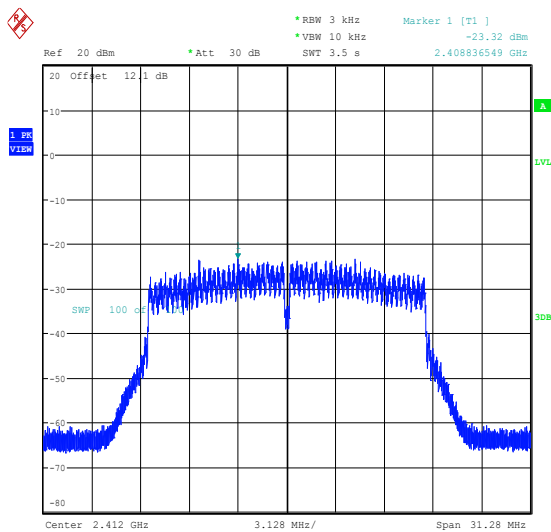
Date: 19.DEC.2024 15:56:56

11G-Ant1-2437-PASS



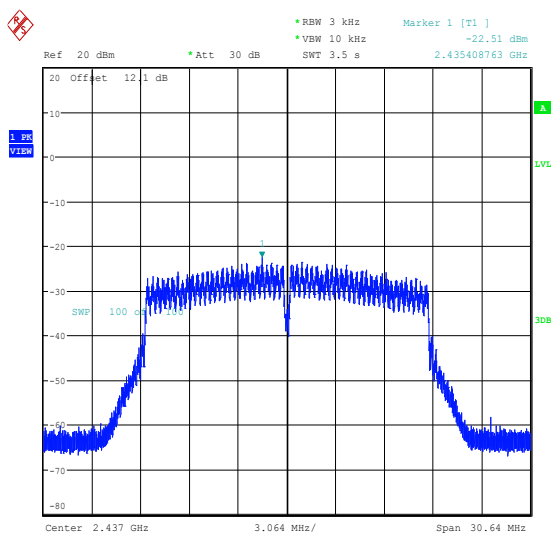
Date: 19.DEC.2024 16:07:20

11G-Ant1-2462-PASS



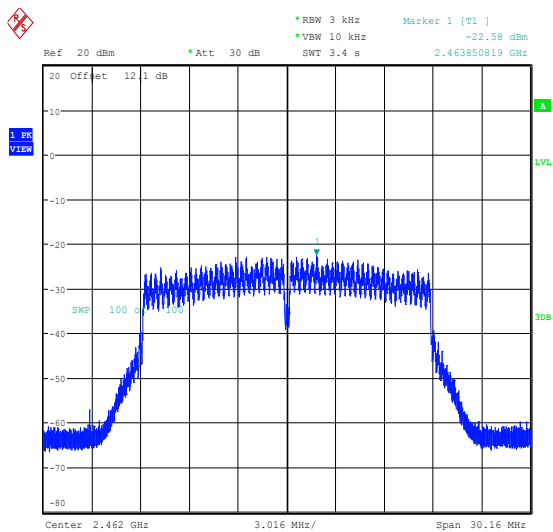
Date: 19.DEC.2024 16:22:47

11N20SISO-Ant1-2412-PASS



Date: 19.DEC.2024 16:37:32

11N20SISO-Ant1-2437-PASS



Date: 19.DEC.2024 16:49:58

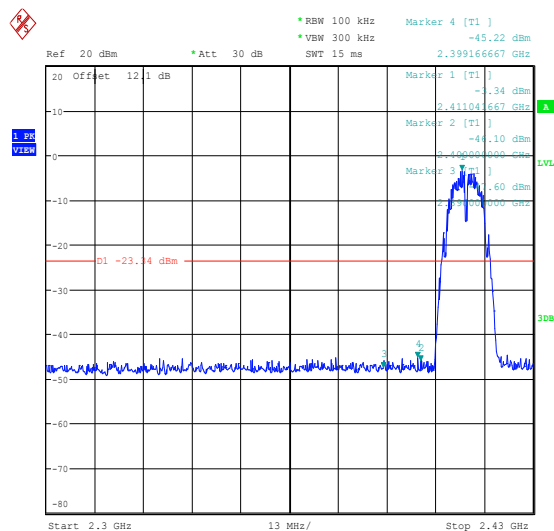
11N20SISO-Ant1-2462-PASS

Appendix D: Band edge measurements

Test Result

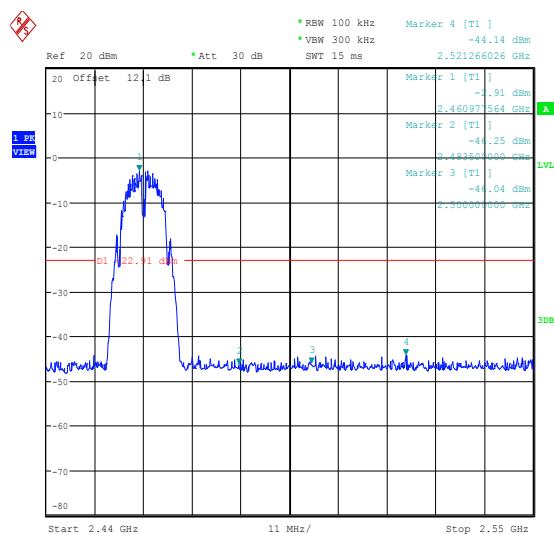
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-3.34	-45.22	≤ -23.34	PASS
11B	Ant1	High	2462	-2.91	-44.14	≤ -22.91	PASS
11G	Ant1	Low	2412	-11.26	-45.25	≤ -31.26	PASS
11G	Ant1	High	2462	-9.61	-44.16	≤ -29.61	PASS
11N20SISO	Ant1	Low	2412	-11.48	-45.34	≤ -31.48	PASS
11N20SISO	Ant1	High	2462	-9.52	-44.04	≤ -29.52	PASS

Test Graphs



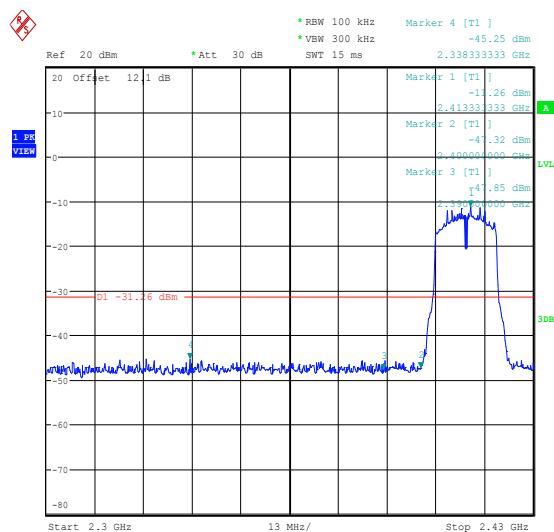
Date: 19.DEC.2024 15:05:45

11B-Ant1-2412-PASS



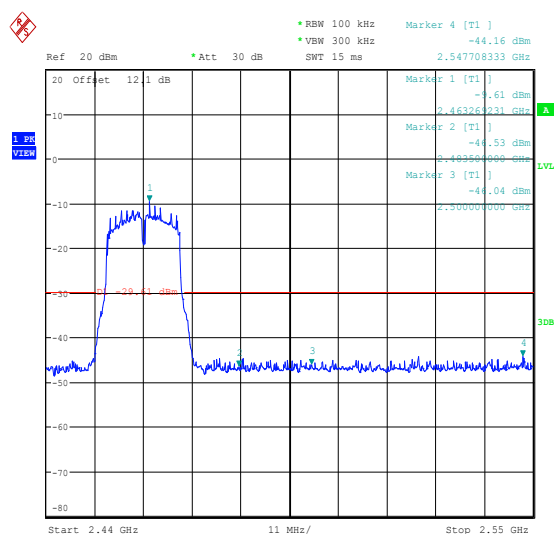
Date: 19.DEC.2024 15:23:54

11B-Ant1-2462-PASS



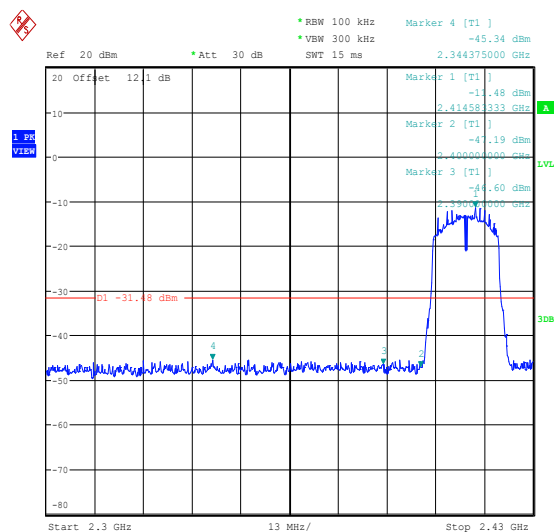
Date: 19.DEC.2024 15:42:59

11G-Ant1-2412-PASS



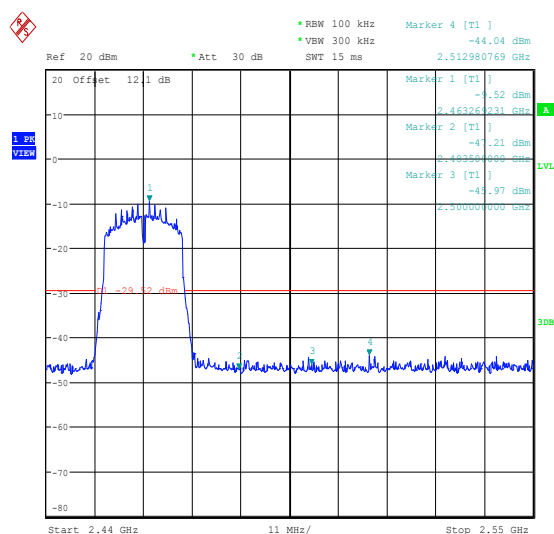
Date: 19.DEC.2024 16:07:31

11G-Ant1-2462-PASS



Date: 19.DEC.2024 16:22:57

11N20SISO-Ant1-2412-PASS



Date: 19.DEC.2024 16:50:09

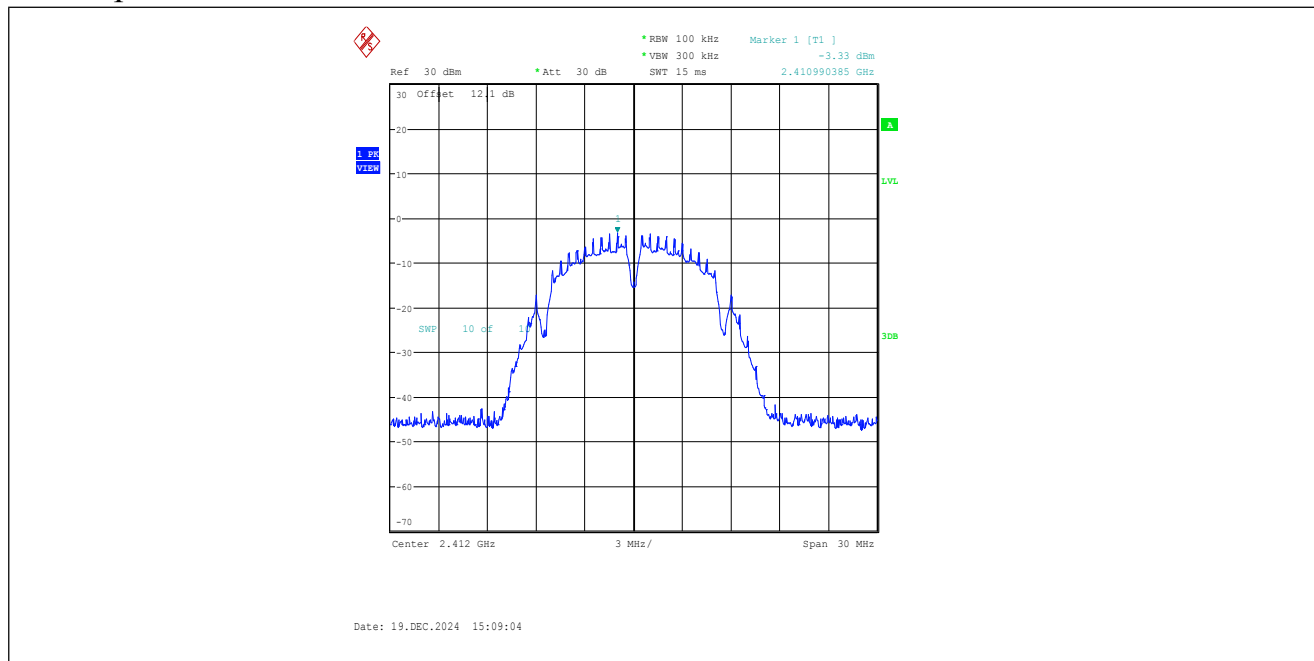
11N20SISO-Ant1-2462-PASS

Appendix E: Conducted Spurious Emission

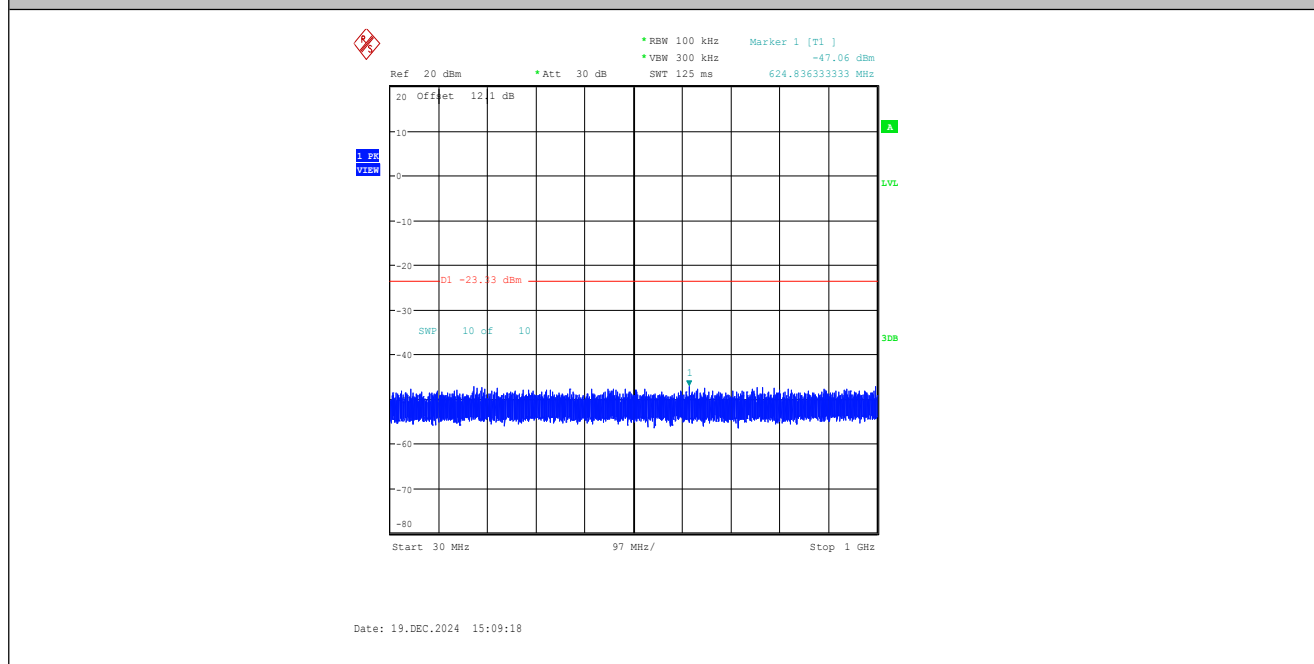
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-3.33	-3.33	---	PASS
11B	Ant1	2412	30~1000	-3.33	-47.06	≤-23.33	PASS
11B	Ant1	2412	1000~26500	-3.33	-42	≤-23.33	PASS
11B	Ant1	2437	0~Reference	-3.33	-3.33	---	PASS
11B	Ant1	2437	30~1000	-3.33	-46.5	≤-23.33	PASS
11B	Ant1	2437	1000~26500	-3.33	-43.21	≤-23.33	PASS
11B	Ant1	2462	0~Reference	-2.90	-2.90	---	PASS
11B	Ant1	2462	30~1000	-2.90	-45.38	≤-22.9	PASS
11B	Ant1	2462	1000~26500	-2.90	-43.18	≤-22.9	PASS
11G	Ant1	2412	0~Reference	-10.90	-10.90	---	PASS
11G	Ant1	2412	30~1000	-10.90	-46.82	≤-30.9	PASS
11G	Ant1	2412	1000~26500	-10.90	-43.2	≤-30.9	PASS
11G	Ant1	2437	0~Reference	-10.46	-10.46	---	PASS
11G	Ant1	2437	30~1000	-10.46	-46.29	≤-30.46	PASS
11G	Ant1	2437	1000~26500	-10.46	-43.82	≤-30.46	PASS
11G	Ant1	2462	0~Reference	-9.92	-9.92	---	PASS
11G	Ant1	2462	30~1000	-9.92	-47.11	≤-29.92	PASS
11G	Ant1	2462	1000~26500	-9.92	-43.69	≤-29.92	PASS
11N20SISO	Ant1	2412	0~Reference	-10.68	-10.68	---	PASS
11N20SISO	Ant1	2412	30~1000	-10.68	-46.91	≤-30.68	PASS
11N20SISO	Ant1	2412	1000~26500	-10.68	-43.65	≤-30.68	PASS
11N20SISO	Ant1	2437	0~Reference	-10.64	-10.64	---	PASS
11N20SISO	Ant1	2437	30~1000	-10.64	-47.04	≤-30.64	PASS
11N20SISO	Ant1	2437	1000~26500	-10.64	-42.63	≤-30.64	PASS
11N20SISO	Ant1	2462	0~Reference	-9.94	-9.94	---	PASS
11N20SISO	Ant1	2462	30~1000	-9.94	-44.58	≤-29.94	PASS
11N20SISO	Ant1	2462	1000~26500	-9.94	-43.09	≤-29.94	PASS

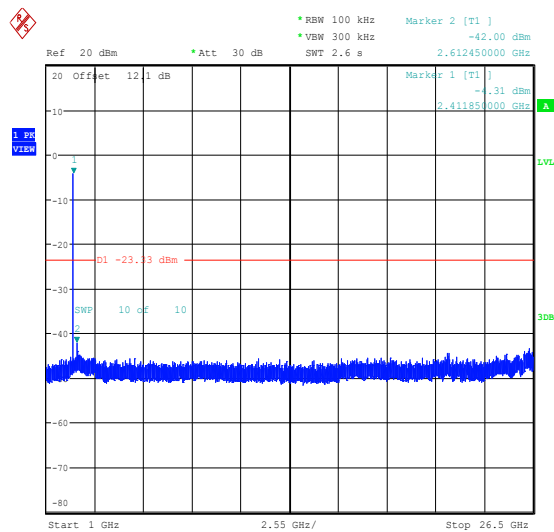
Test Graphs



11B-Ant1-2412-0~Reference-PASS

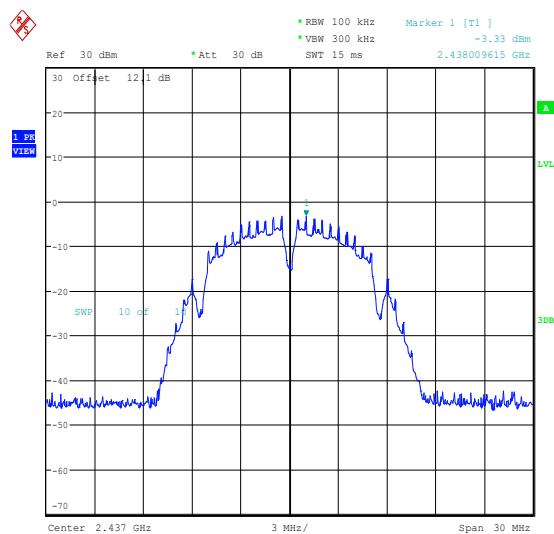


11B-Ant1-2412-30~1000-PASS



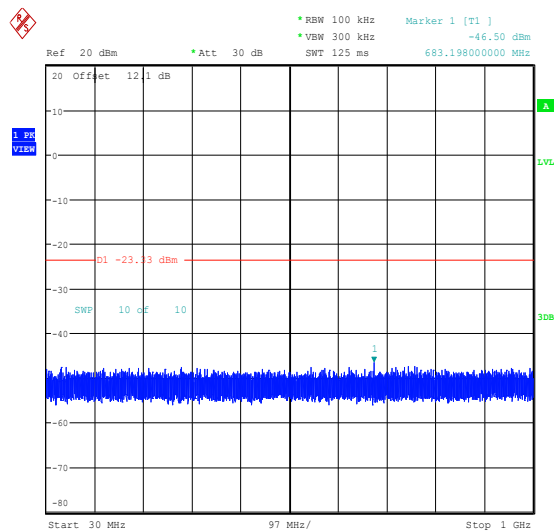
Date: 19.DEC.2024 15:11:02

11B-Ant1-2412-1000~26500-PASS



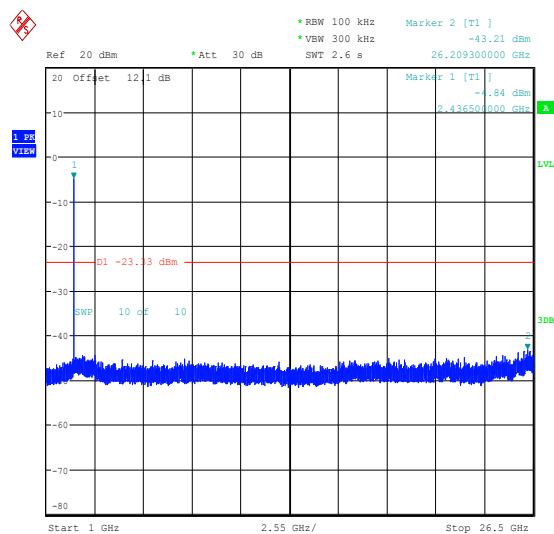
Date: 19.DEC.2024 15:16:21

11B-Ant1-2437-0~Reference-PASS



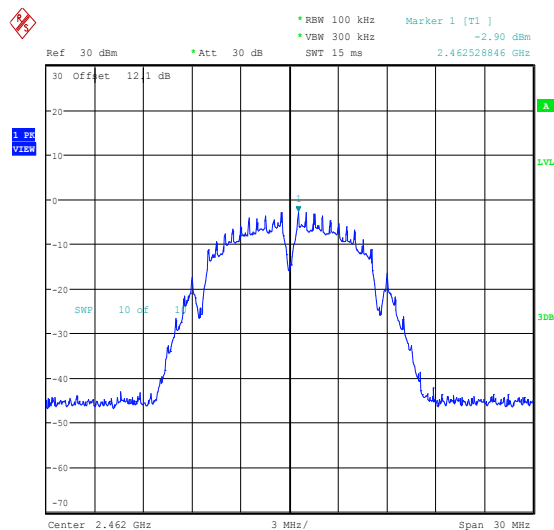
Date: 19.DEC.2024 15:16:35

11B-Ant1-2437-30~1000-PASS



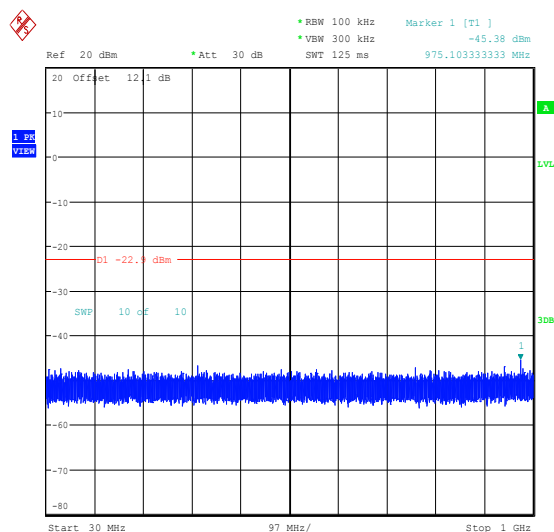
Date: 19.DEC.2024 15:18:18

11B-Ant1-2437-1000~26500-PASS



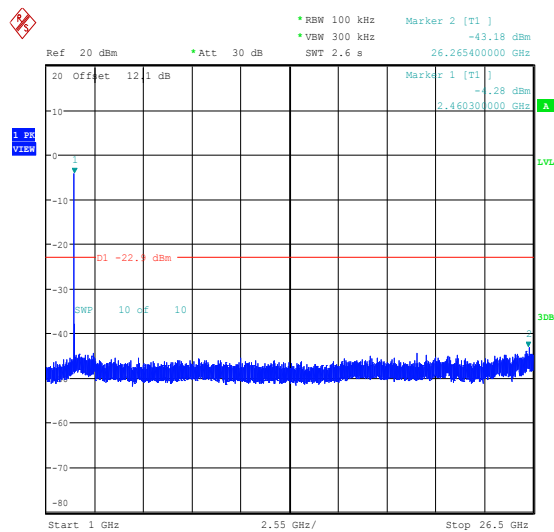
Date: 19.DEC.2024 15:26:50

11B-Ant1-2462-0~Reference-PASS



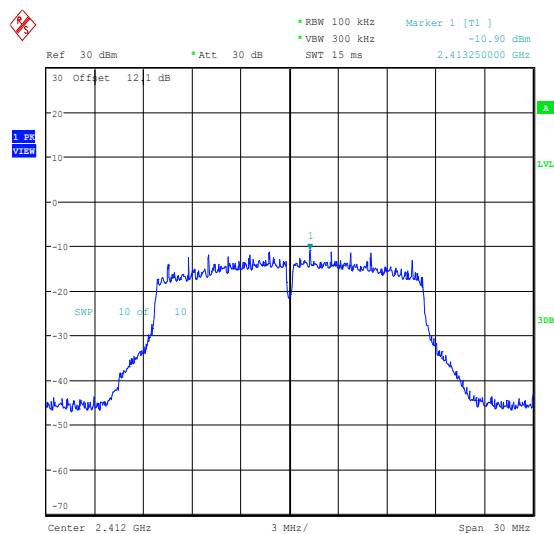
Date: 19.DEC.2024 15:27:04

11B-Ant1-2462-30~1000-PASS



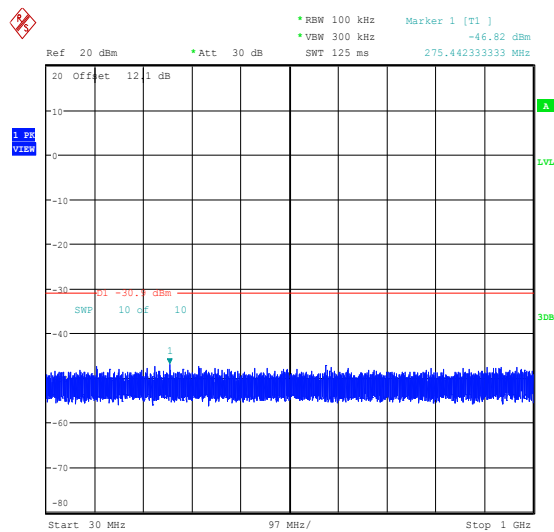
Date: 19.DEC.2024 15:28:47

11B-Ant1-2462-1000~26500-PASS



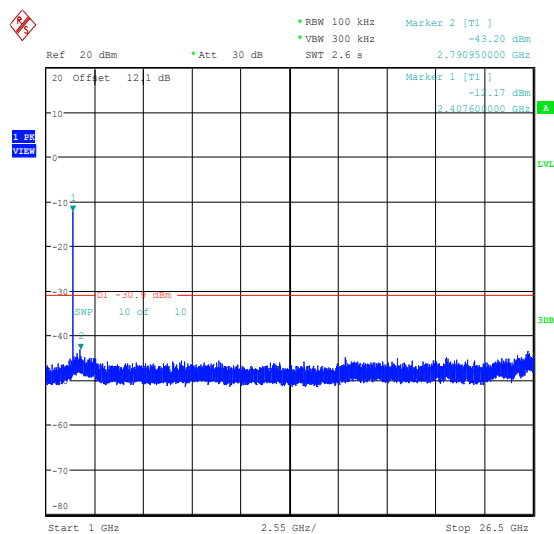
Date: 19.DEC.2024 15:46:17

11G-Ant1-2412-0~Reference-PASS



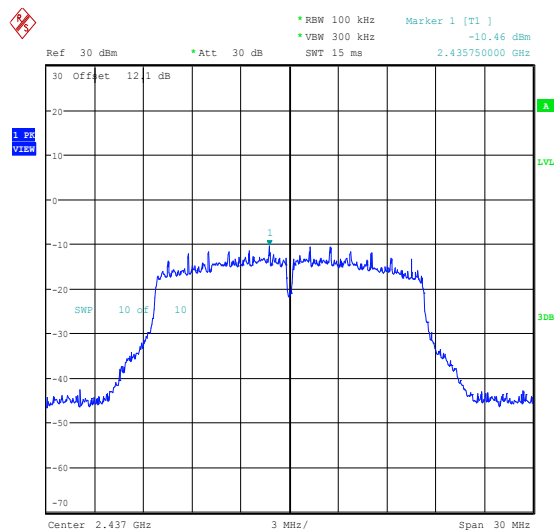
Date: 19.DEC.2024 15:46:31

11G-Ant1-2412-30~1000-PASS



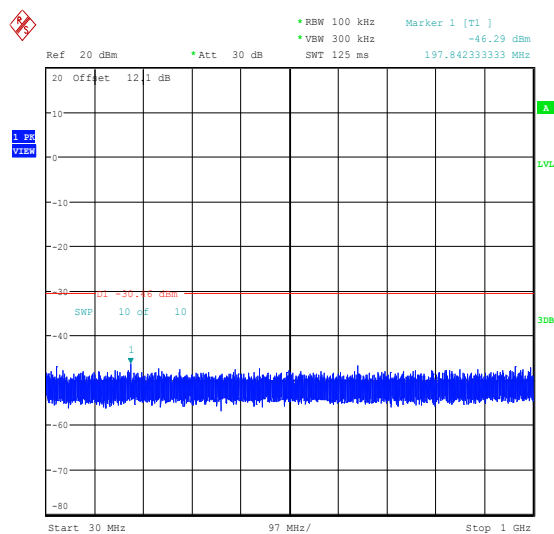
Date: 19.DEC.2024 15:48:14

11G-Ant1-2412-1000~26500-PASS



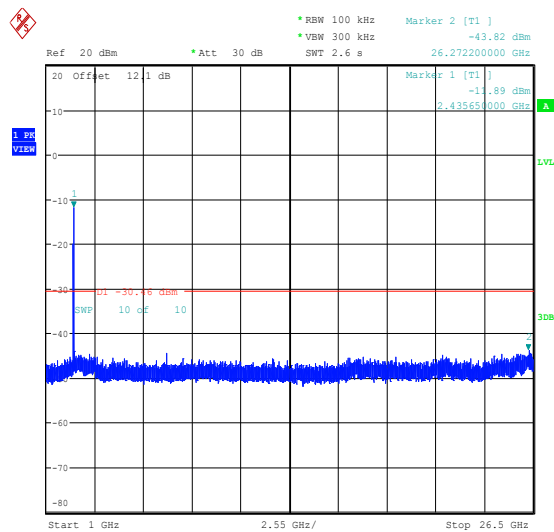
Date: 19.DEC.2024 15:57:05

11G-Ant1-2437-0~Reference-PASS



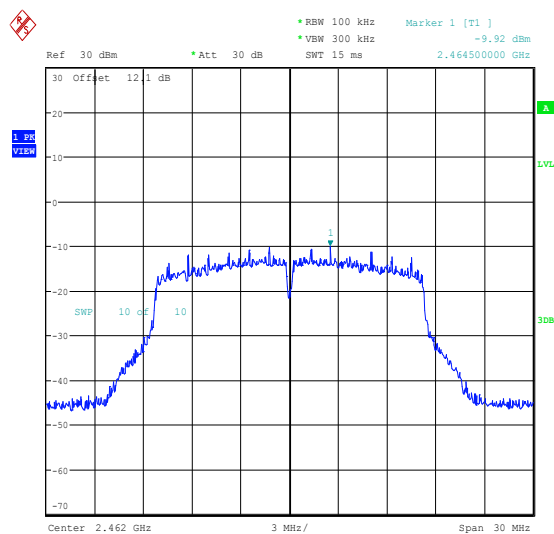
Date: 19.DEC.2024 15:57:19

11G-Ant1-2437-30~1000-PASS



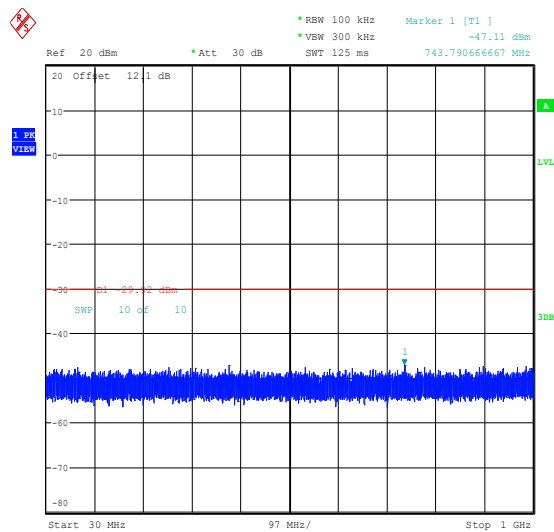
Date: 19.DEC.2024 15:59:02

11G-Ant1-2437-1000~26500-PASS



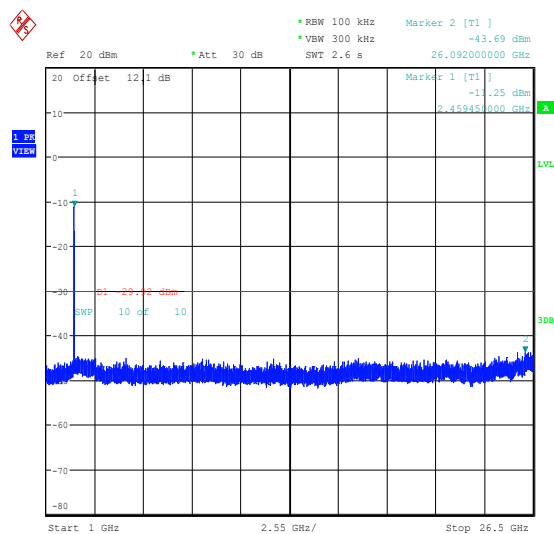
Date: 19.DEC.2024 16:10:27

11G-Ant1-2462-0~Reference-PASS



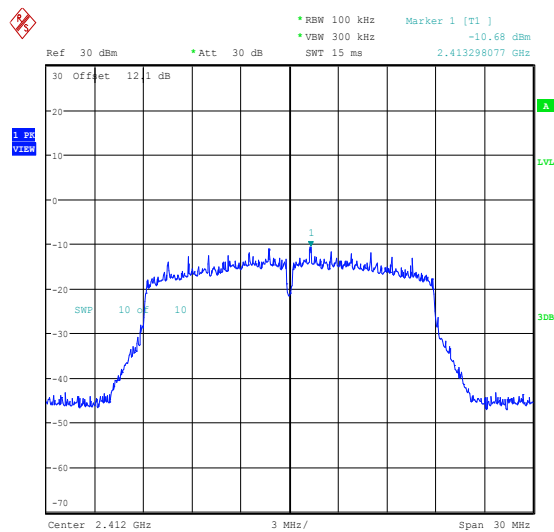
Date: 19.DEC.2024 16:10:41

11G-Ant1-2462-30~1000-PASS



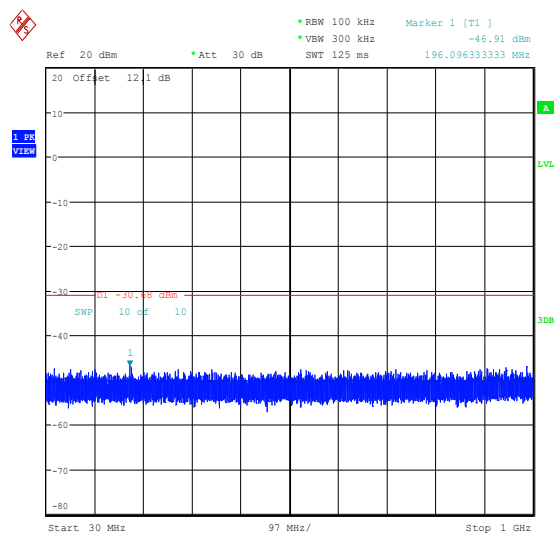
Date: 19.DEC.2024 16:12:24

11G-Ant1-2462-1000~26500-PASS



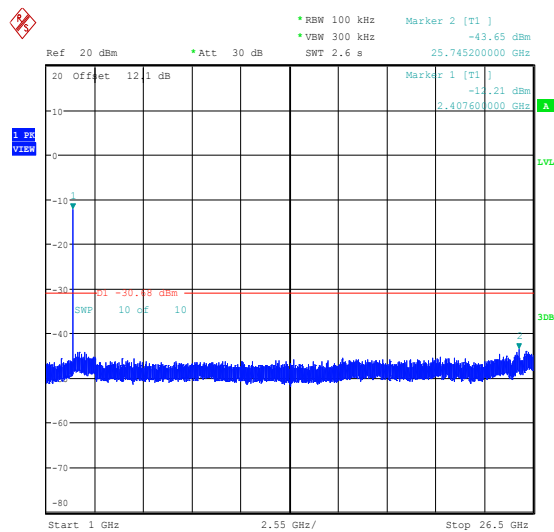
Date: 19.DEC.2024 16:24:09

11N20SISO-Ant1-2412-0~Reference-PASS



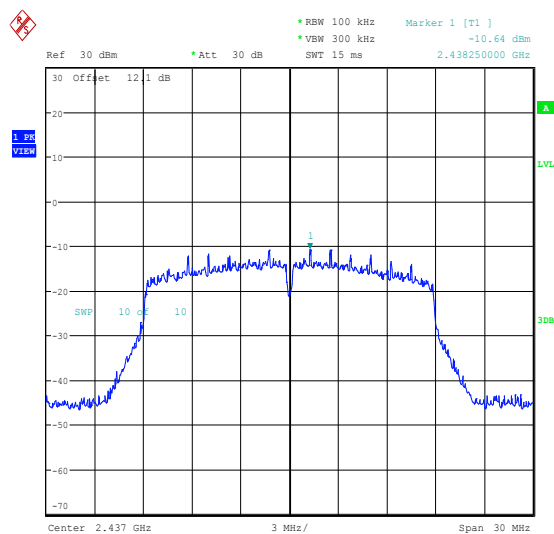
Date: 19.DEC.2024 16:24:23

11N20SISO-Ant1-2412-30~1000-PASS



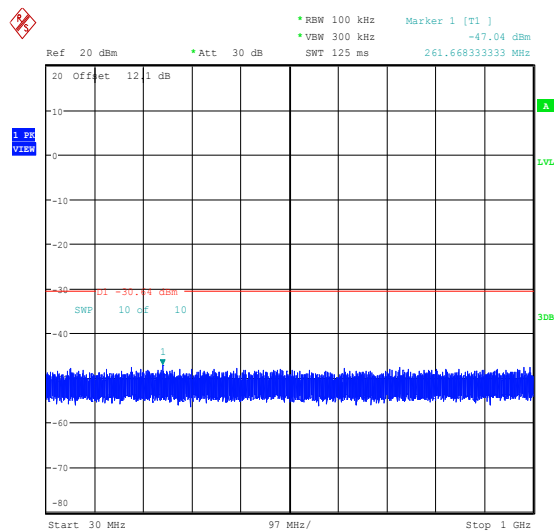
Date: 19.DEC.2024 16:26:06

11N20SISO-Ant1-2412-1000~26500-PASS



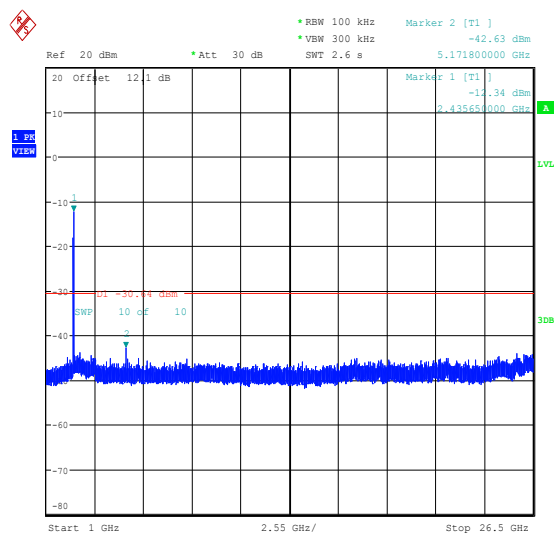
Date: 19.DEC.2024 16:37:41

11N20SISO-Ant1-2437-0~Reference-PASS



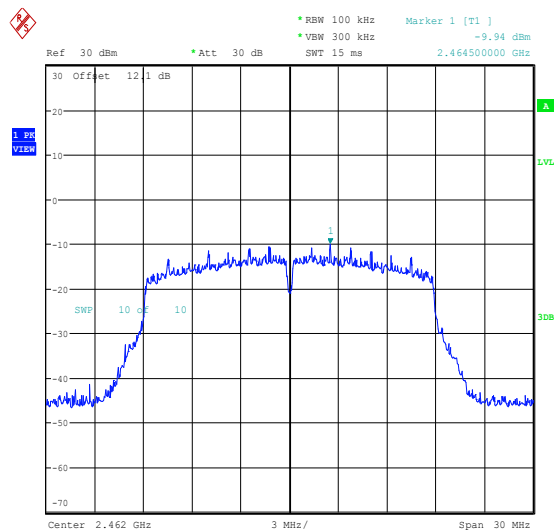
Date: 19.DEC.2024 16:37:55

11N20SISO-Ant1-2437-30~1000-PASS



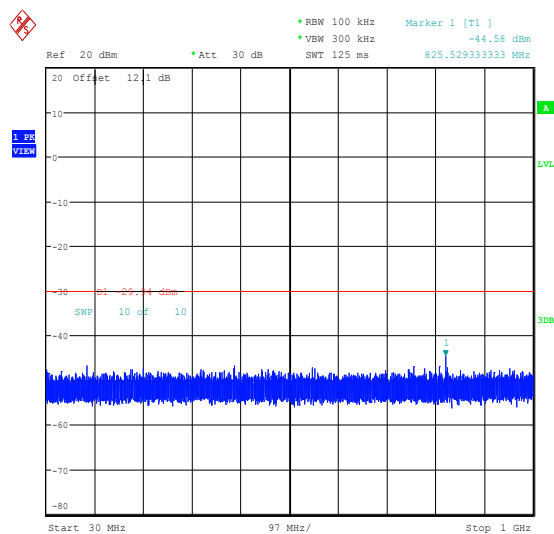
Date: 19.DEC.2024 16:39:38

11N20SISO-Ant1-2437-1000~26500-PASS



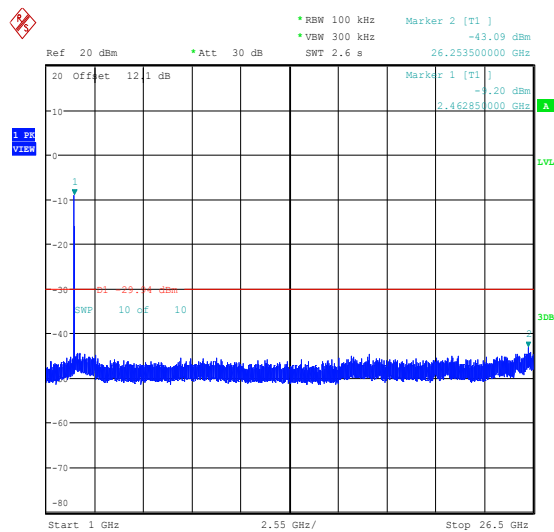
Date: 19.DEC.2024 16:51:20

11N20SISO-Ant1-2462-0~Reference-PASS



Date: 19.DEC.2024 16:51:33

11N20SISO-Ant1-2462-30~1000-PASS



Date: 19.DEC.2024 16:53:17

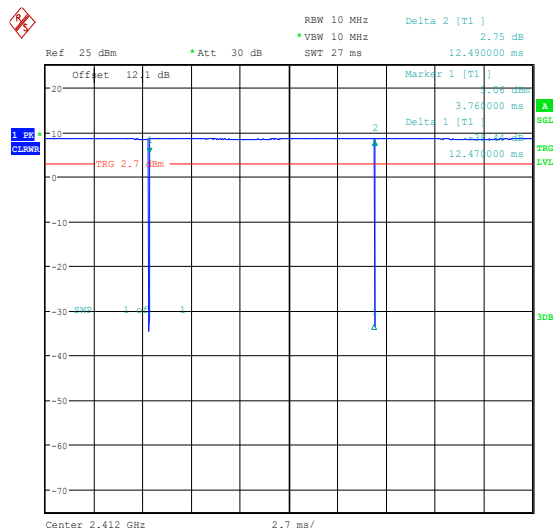
11N20SISO-Ant1-2462-1000~26500-PASS

Appendix F: Duty Cycle

Test Result

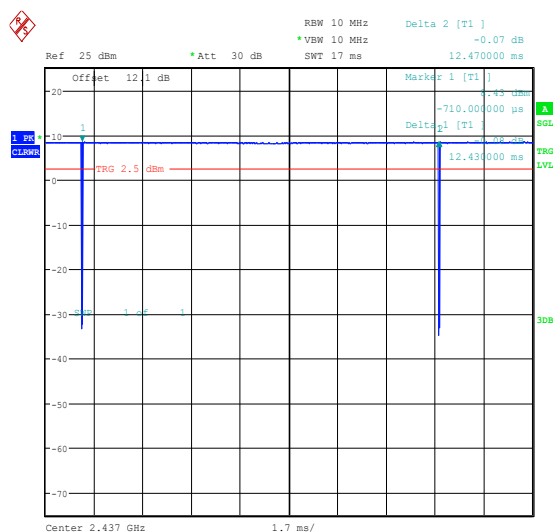
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.47	12.49	99.84	0.01
11B	Ant1	2437	12.43	12.47	99.68	0.01
11B	Ant1	2462	12.45	12.48	99.76	0.01
11G	Ant1	2412	2.06	2.10	98.10	0.08
11G	Ant1	2437	2.06	2.10	98.10	0.08
11G	Ant1	2462	2.07	2.11	98.10	0.08
11N20SISO	Ant1	2412	1.92	1.96	97.96	0.09
11N20SISO	Ant1	2437	1.92	1.96	97.96	0.09
11N20SISO	Ant1	2462	1.92	1.96	97.96	0.09

Test Graphs



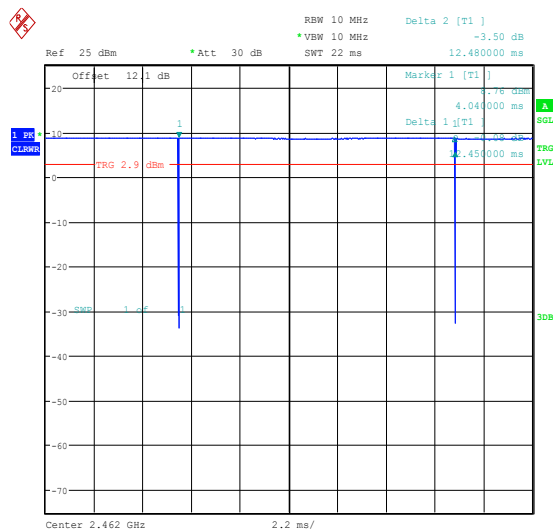
Date: 19.DEC.2024 15:00:58

NTNV-11B-Ant1-2412



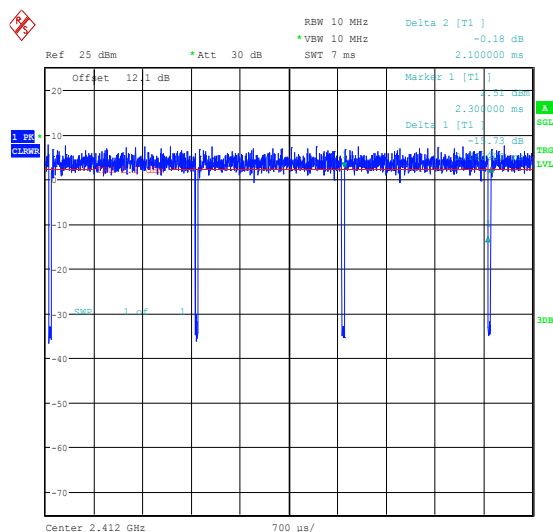
Date: 19.DEC.2024 15:11:38

NTNV-11B-Ant1-2437



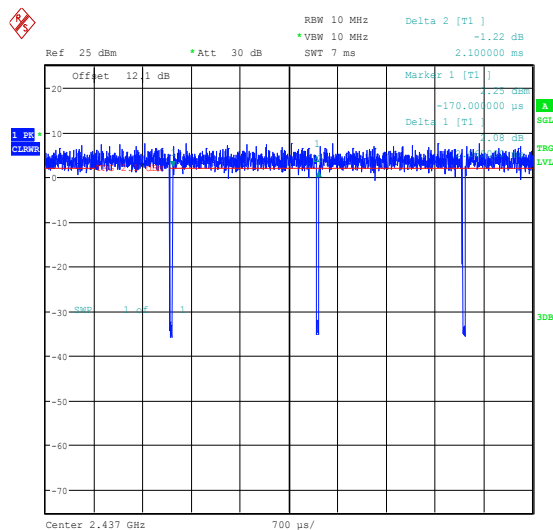
Date: 19.DEC.2024 15:19:13

NTNV-11B-Ant1-2462



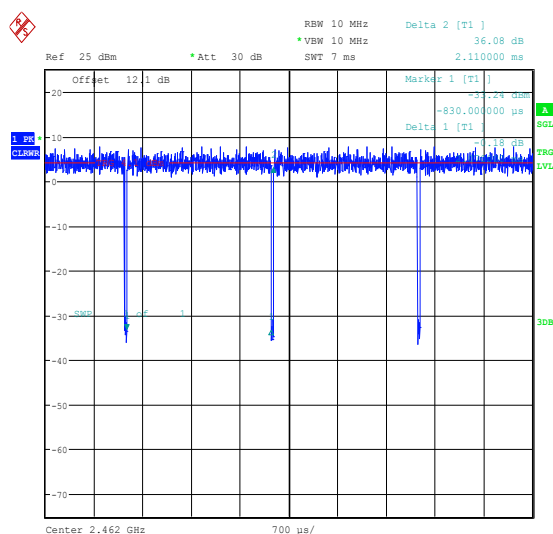
Date: 19.DEC.2024 15:34:18

NTNV-11G-Ant1-2412



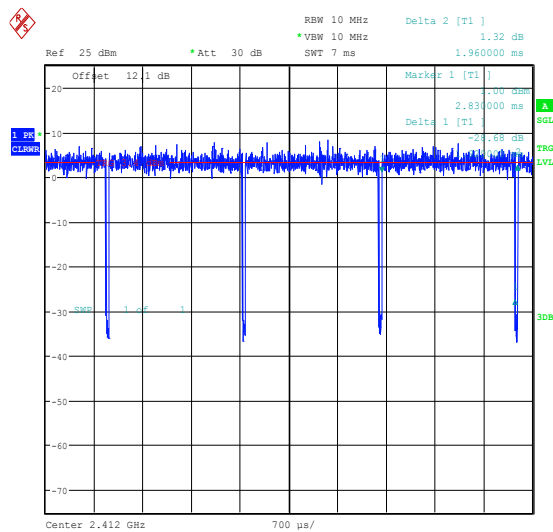
Date: 19.DEC.2024 15:48:33

NTNV-11G-Ant1-2437



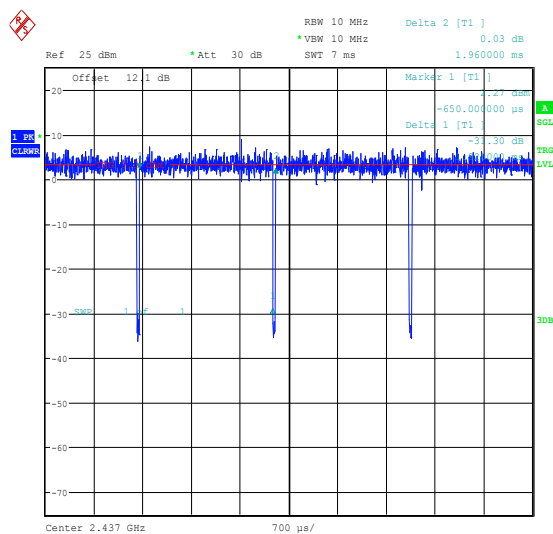
Date: 19.DEC.2024 15:59:22

NTNV-11G-Ant1-2462



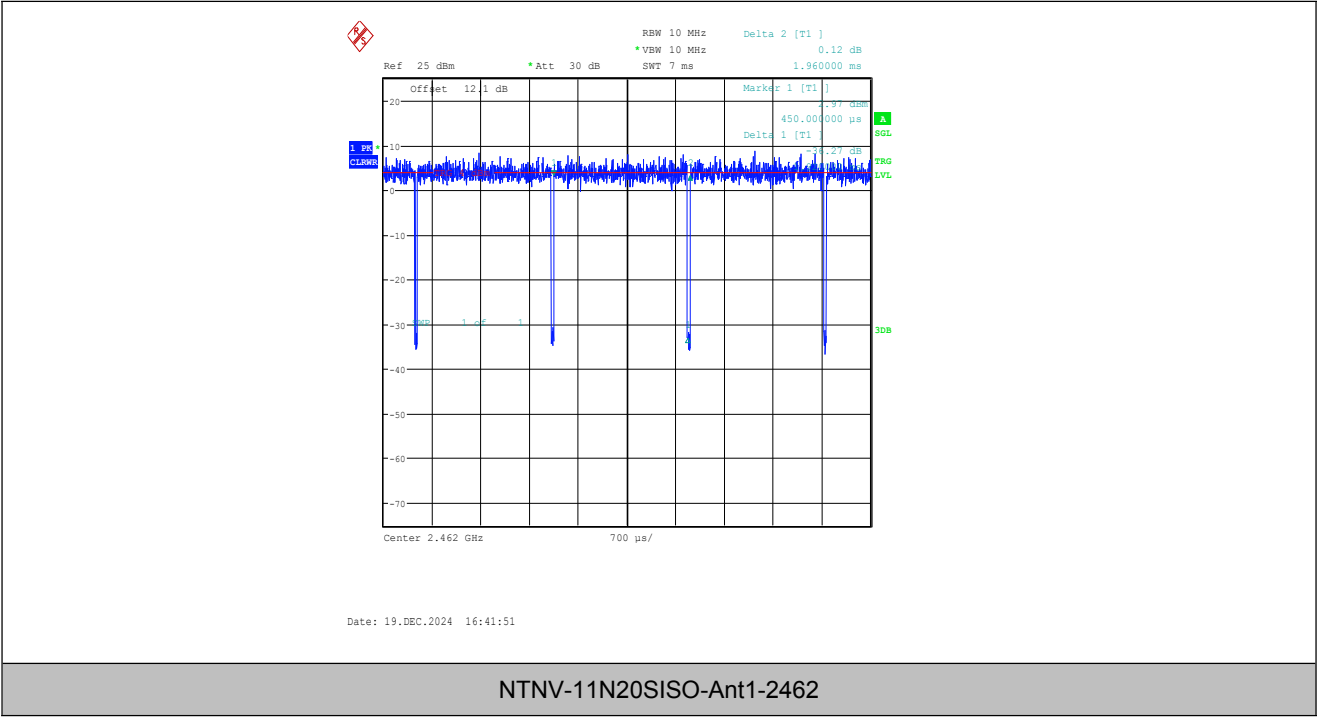
Date: 19.DEC.2024 16:14:17

NTNV-11N20SISO-Ant1-2412



Date: 19.DEC.2024 16:28:49

NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

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

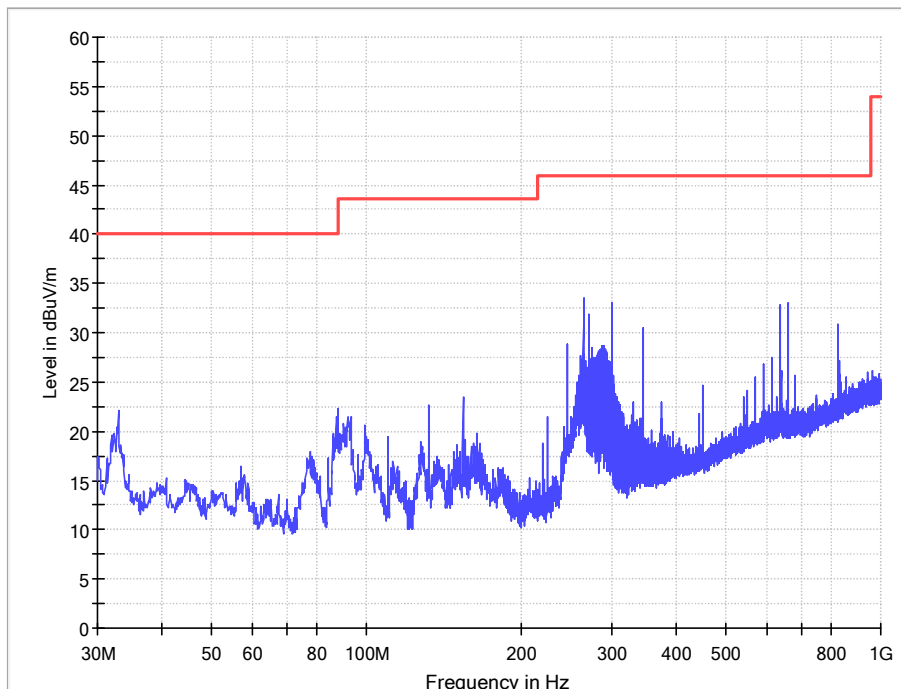
Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBμV/m)	Level (dBμV/m)	Polarity (Horizontal/Vertical)	Limit (dBμV/m)	Margin (dB)	Note
33.017	0.7	12.3	17.7	30.7	Vertical	40.0	9.3	QP
87.23	1.1	10.3	15.2	26.6	Vertical	40.0	13.4	QP
131.957	1.3	8.9	20.1	30.3	Vertical	43.5	13.2	QP
153.944	1.4	8.3	18.1	27.8	Vertical	43.5	15.7	QP
175.931	1.5	9.0	11.9	22.4	Vertical	43.5	21.1	QP

299.983	2.1	12.7	18.8	33.6	Vertical	46.0	12.4	QP
131.951	1.3	8.9	11.5	21.7	Horizontal	43.5	21.8	QP
53.944	0.8	13.3	8.4	22.5	Horizontal	40	17.5	QP
263.985	1.9	12.1	16.8	30.8	Horizontal	46	15.2	QP
299.983	2.1	12.7	15.4	30.2	Horizontal	46	15.8	QP
638.082	3.1	18.5	8.1	29.7	Horizontal	46	16.3	QP
660.068	0.7	12.3	17.7	30.7	Horizontal	46	15.9	QP

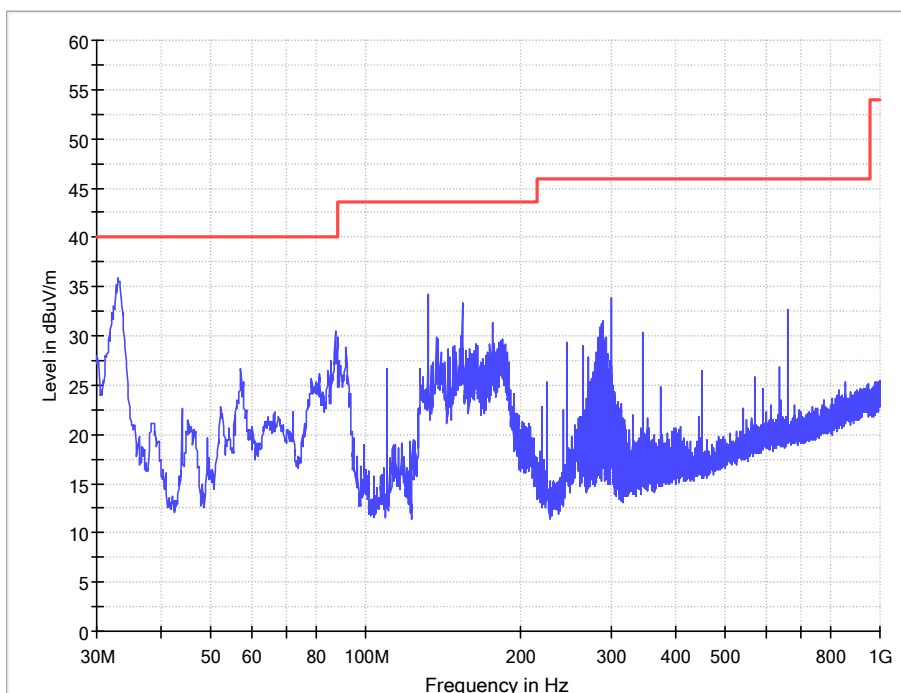
Remark: Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

30MHz-1GHz

Horizontal



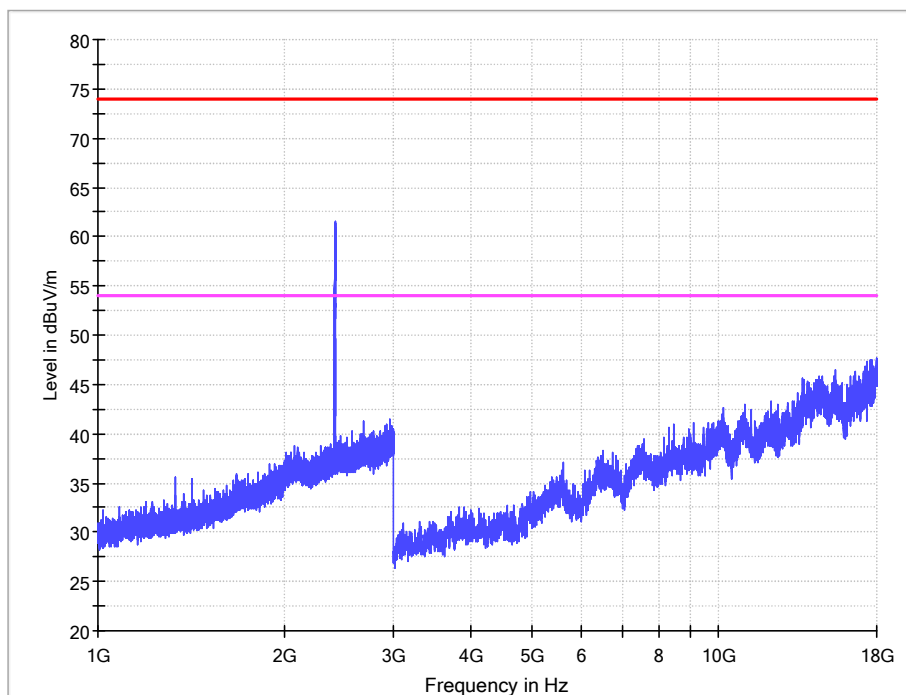
Vertical



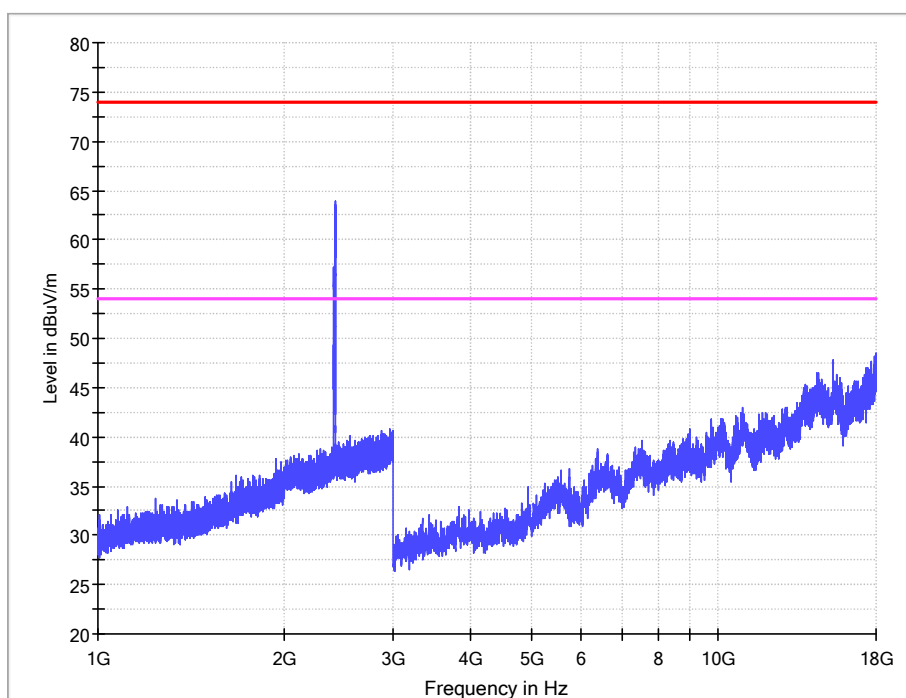
1-18G

802.11b CH1

Horizontal



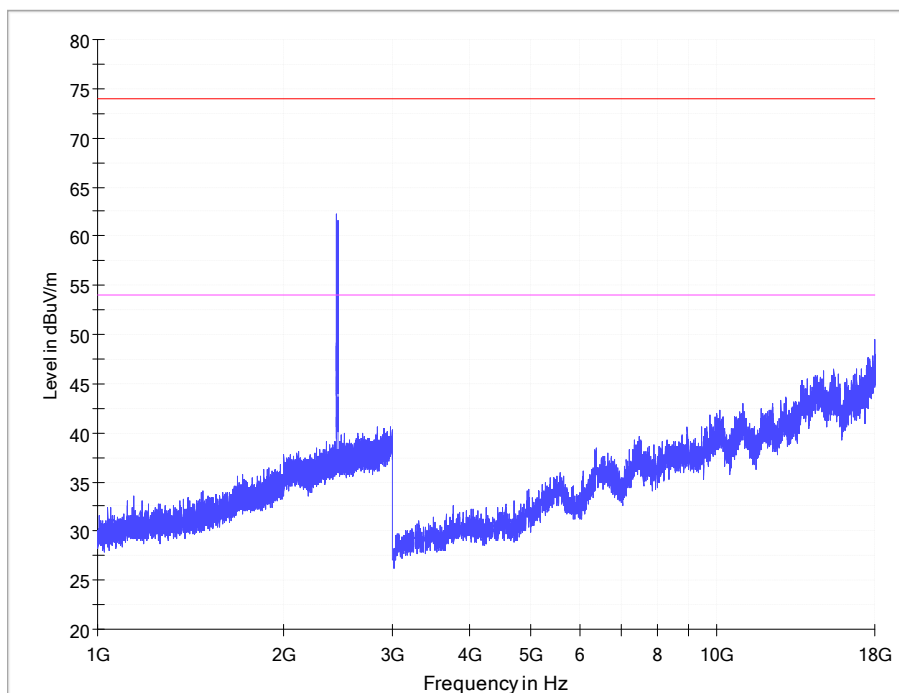
Vertical



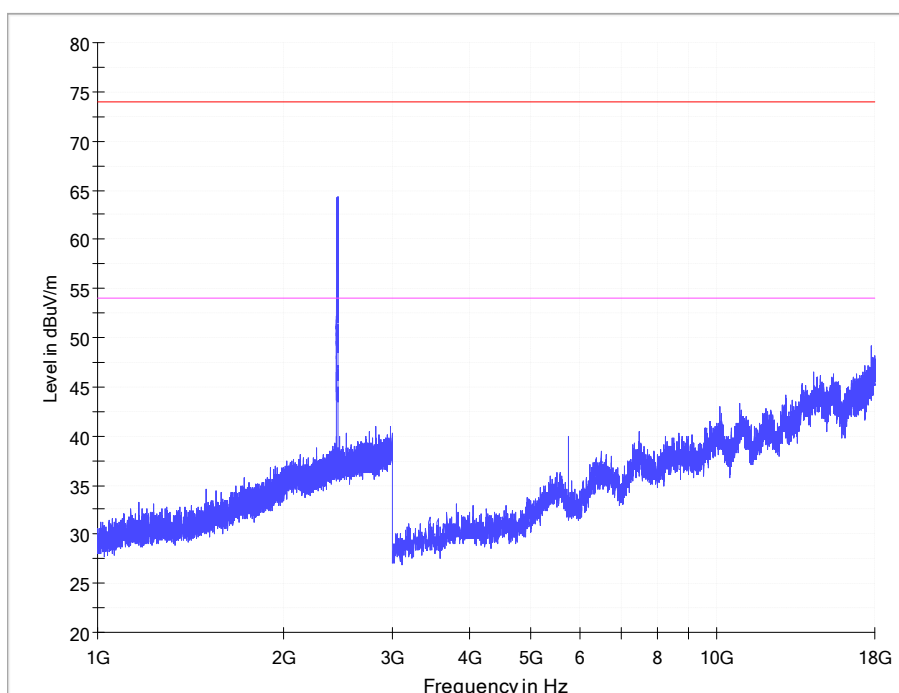
1-18G

802.11b CH6

Horizontal



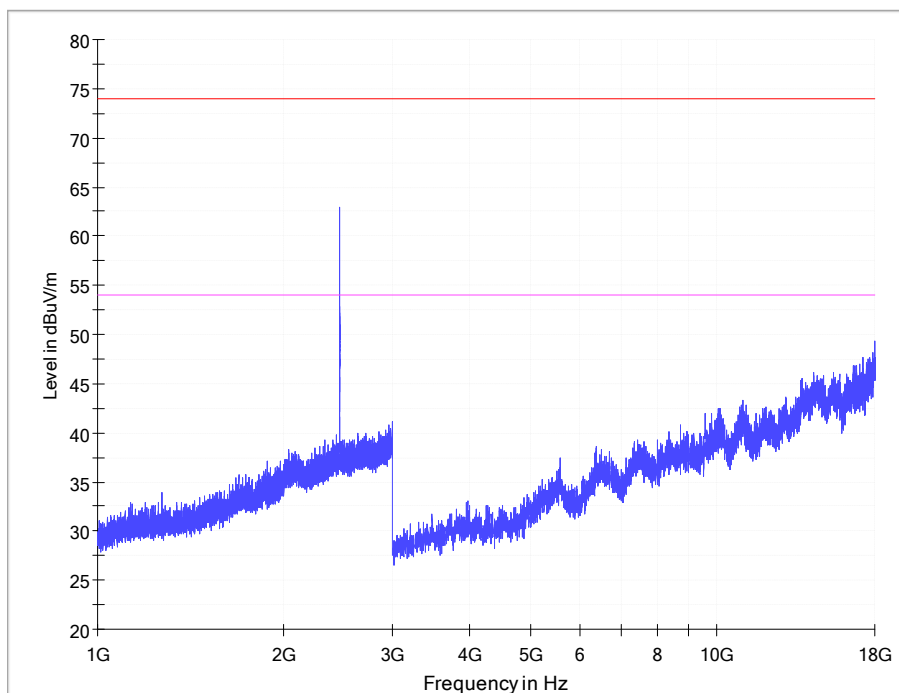
Vertical



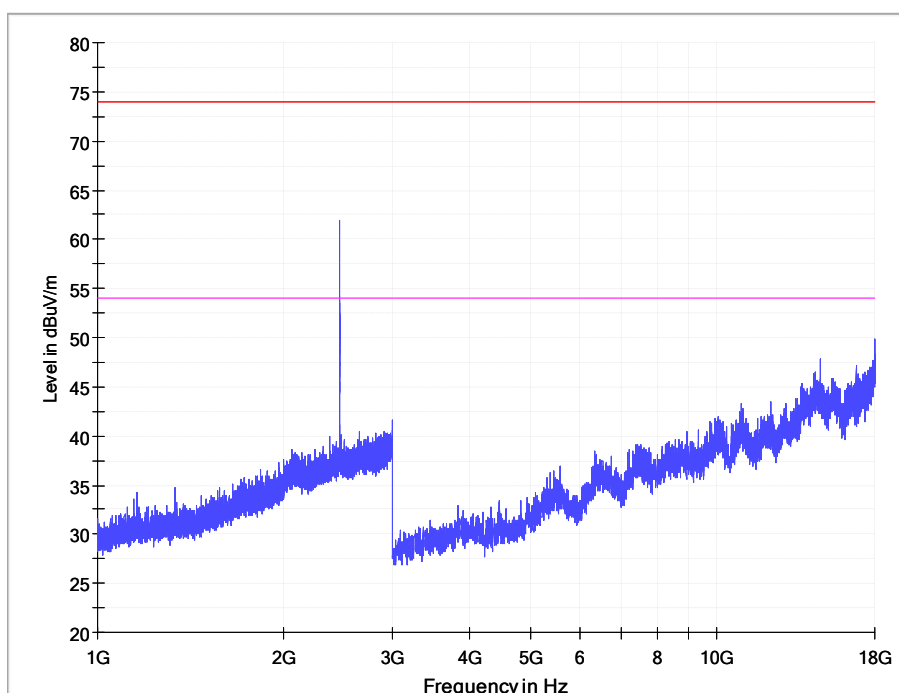
1-18G

802.11b CH11

Horizontal



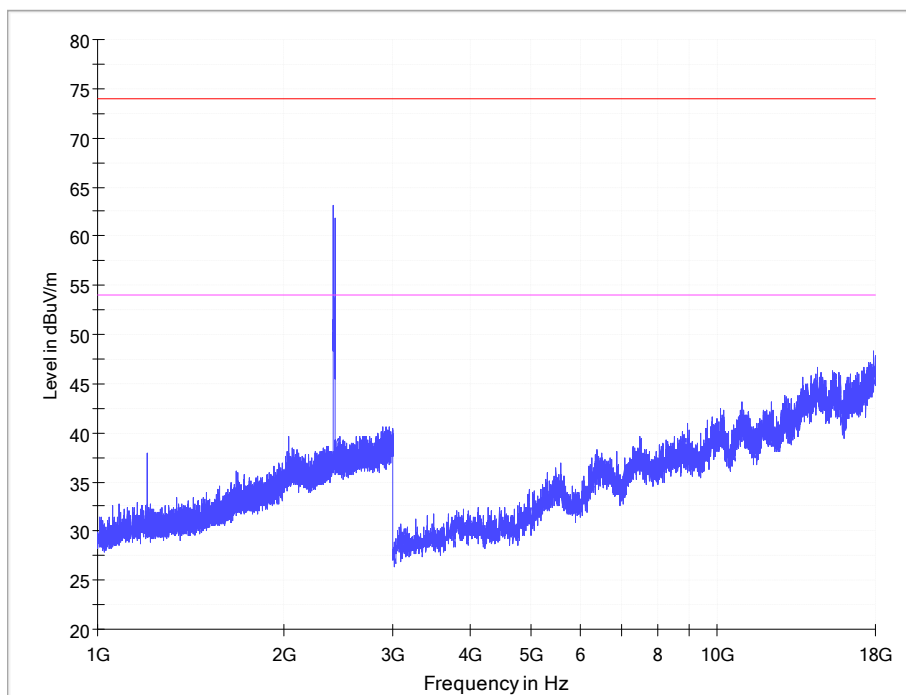
Vertical



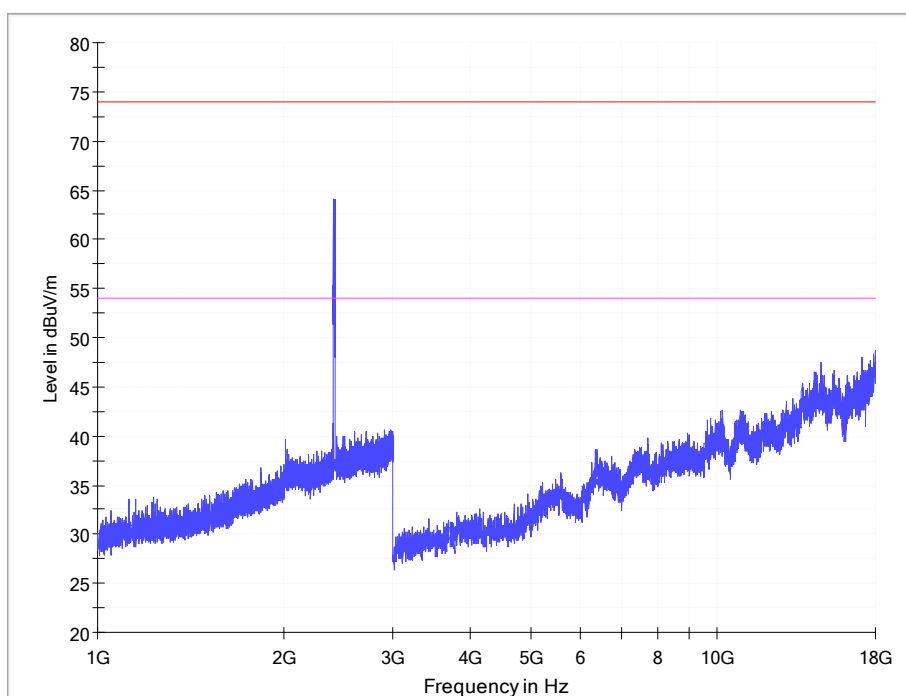
1-18G

802.11g CH1

Horizontal



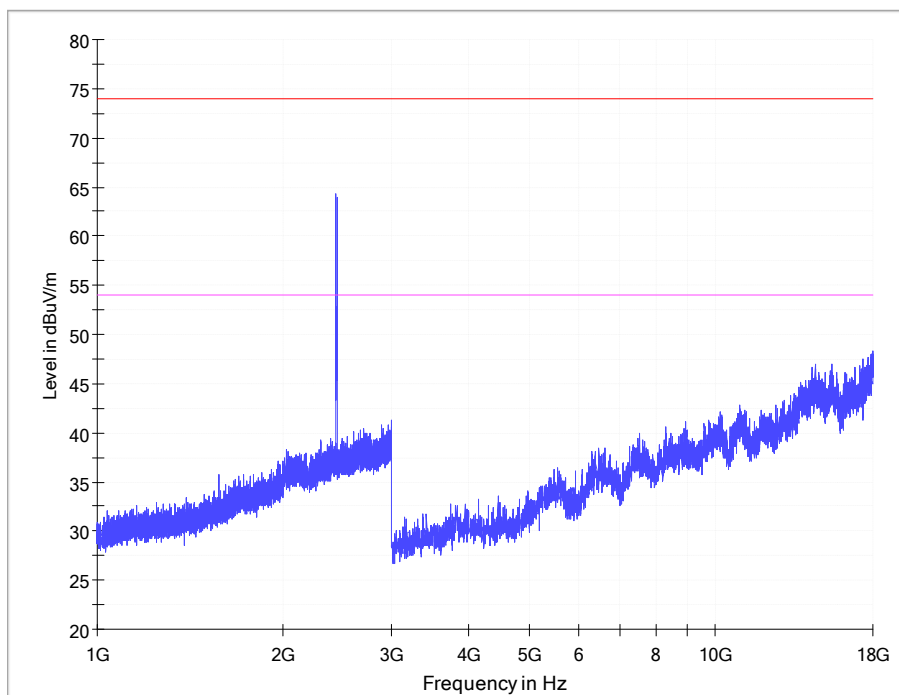
Vertical



1-18G

802.11g CH6

Horizontal



Vertical

