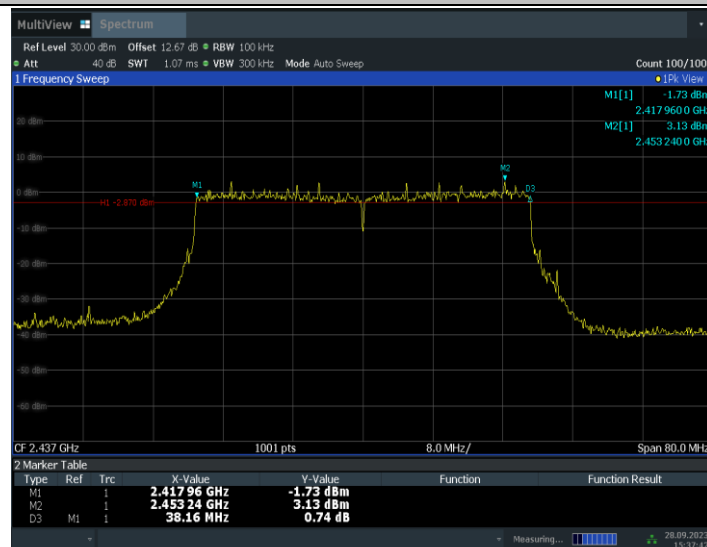


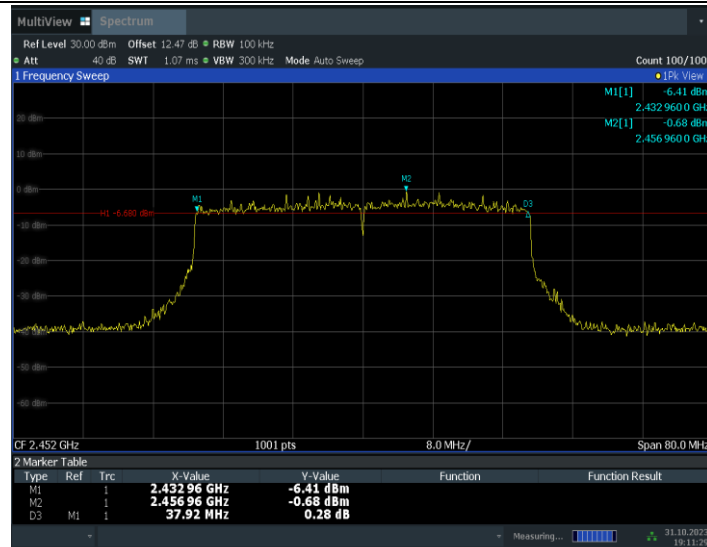
15:36:03 28.09.2023

11BE40MIMO_Ant7_2437



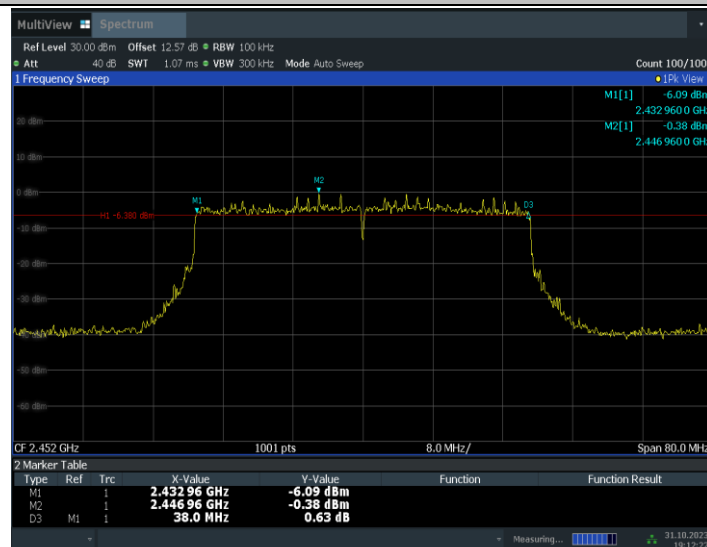
15:37:42 28.09.2023

11BE40MIMO_Ant12_2452



19:11:30 31.10.2023

11BE40MIMO_Ant7_2452



19:12:23 31.10.2023

Conclusion: Pass

A.5. Band Edges Compliance

Method of Measurement: See ANSI C63.10-2013-clause 6.10.4

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below.

- Set Span = 100MHz
- Sweep Time: coupled
- Set the RBW= 100 kHz
- Set the VBW= 300 kHz
- Detector: Peak
- Trace: Max hold

Measurement Limit:

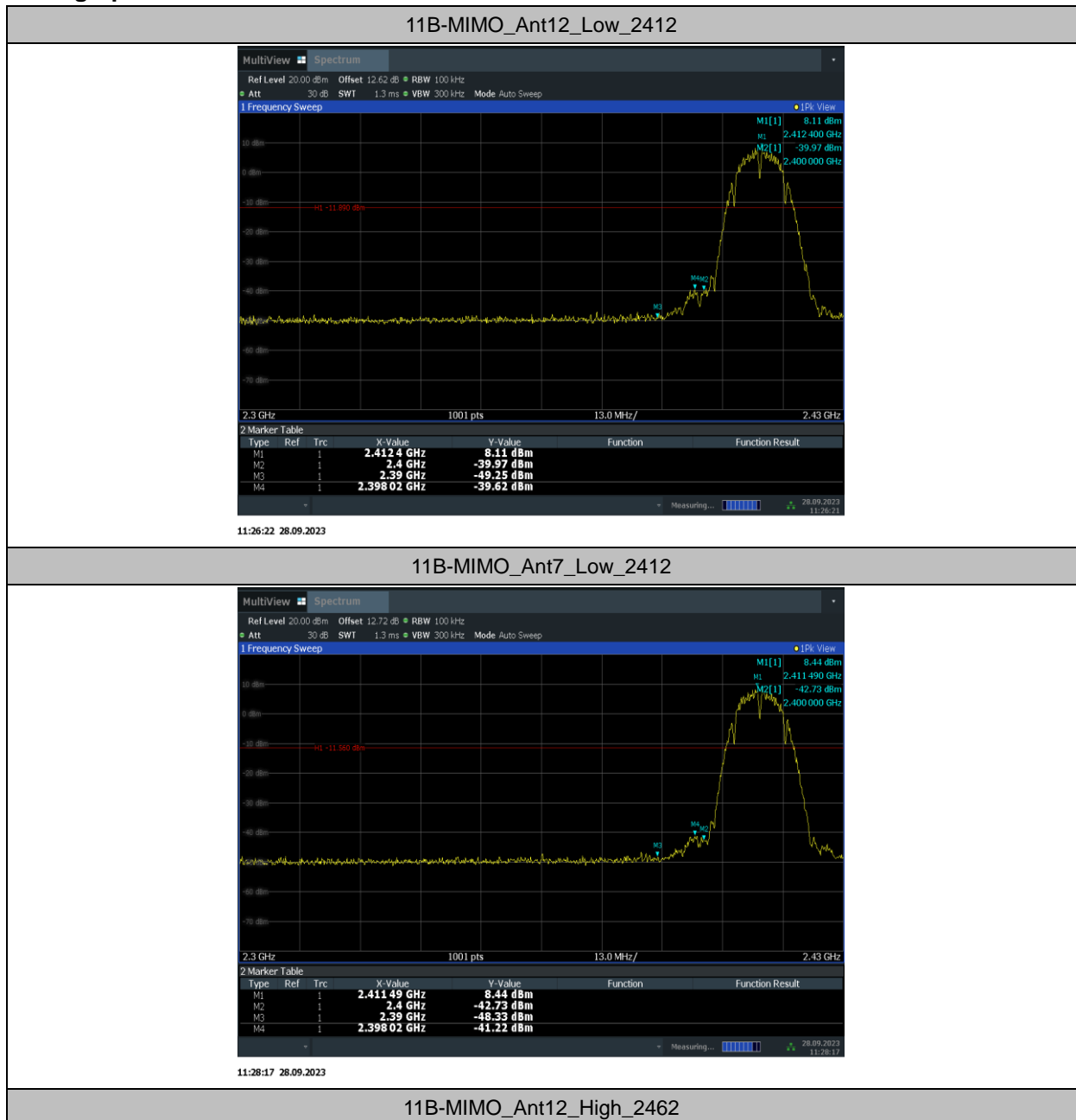
Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

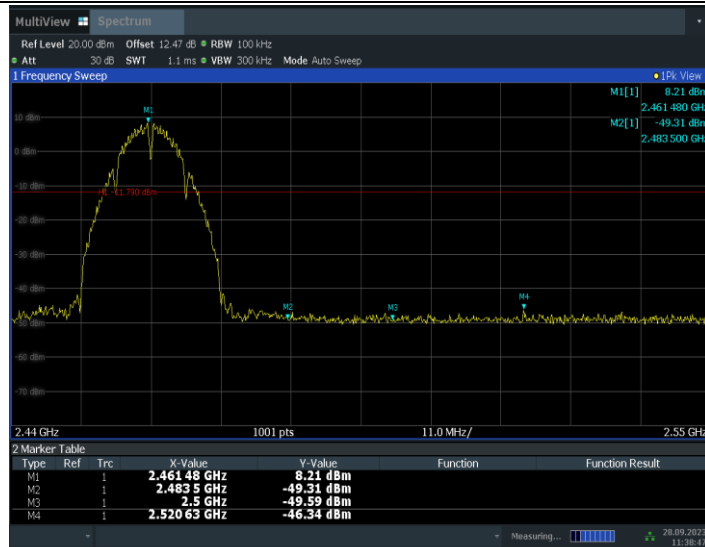
EUT ID: UT01a

Measurement Result:

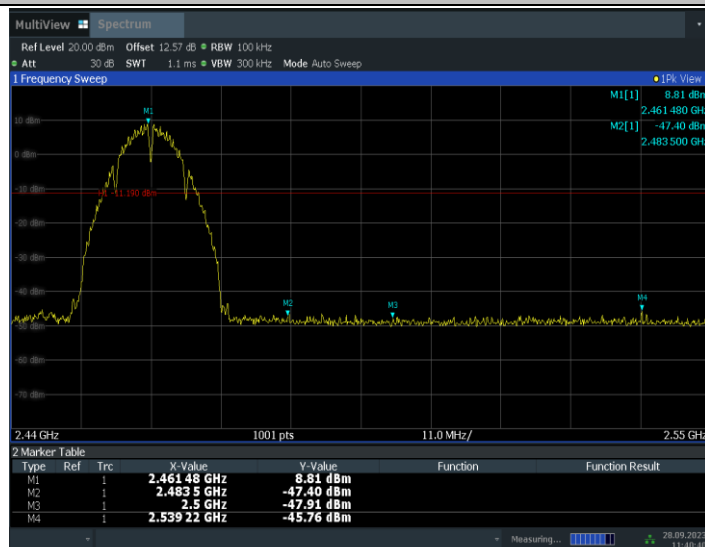
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
11B-MIMO	Ant12	Low	2412	8.11	-39.62	≤-11.89	PASS
	Ant7	Low	2412	8.44	-41.22	≤-11.56	PASS
	Ant12	High	2462	8.21	-46.34	≤-11.79	PASS
	Ant7	High	2462	8.81	-45.76	≤-11.19	PASS
11G-MIMO	Ant12	Low	2412	5.64	-29.52	≤-14.36	PASS
	Ant7	Low	2412	6.55	-31.24	≤-13.45	PASS
	Ant12	High	2462	6.36	-46.68	≤-13.64	PASS
	Ant7	High	2462	6.79	-46.27	≤-13.21	PASS
11AX20 MIMO	Ant12	Low	2412	4.28	-34.82	≤-15.72	PASS
	Ant7	Low	2412	4.43	-38.3	≤-15.57	PASS
	Ant12	High	2462	4.35	-46.17	≤-15.65	PASS
	Ant7	High	2462	4.22	-46.48	≤-15.78	PASS
11BE40 MIMO	Ant12	Low	2422	-0.47	-39.7	≤-20.47	PASS
	Ant7	Low	2422	-0.66	-40.28	≤-20.66	PASS
	Ant12	High	2452	-0.85	-46.3	≤-20.85	PASS
	Ant7	High	2452	-0.21	-46.77	≤-20.21	PASS

Test graphs as below:





11B-MIMO_Ant7_High_2462



11G-MIMO_Ant12_Low_2412



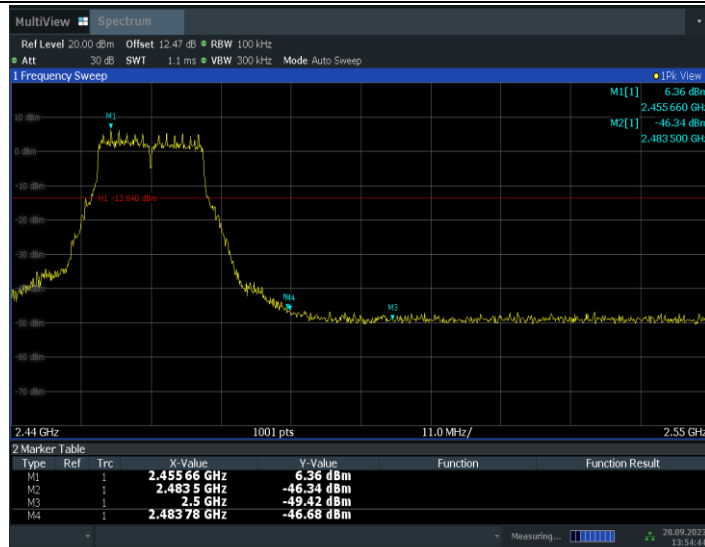
13:43:49 28.09.2023

11G-MIMO_Ant7_Low_2412



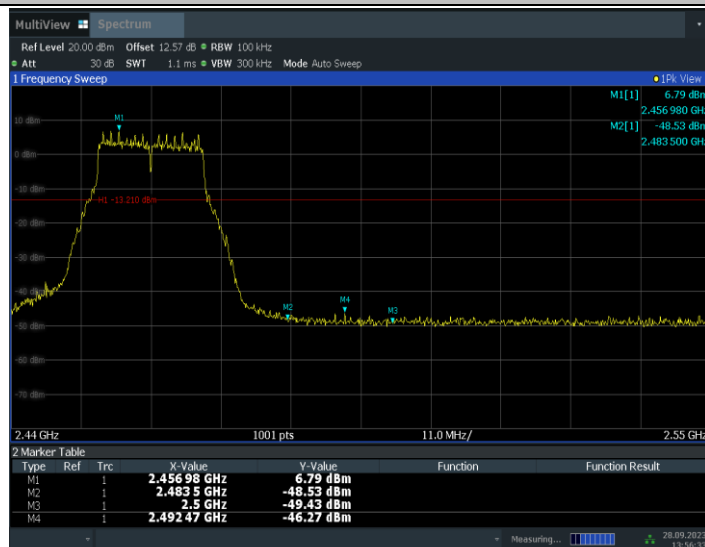
13:45:35 28.09.2023

11G-MIMO_Ant12_High_2462



13:54:45 28.09.2023

11G-MIMO_Ant7_High_2462



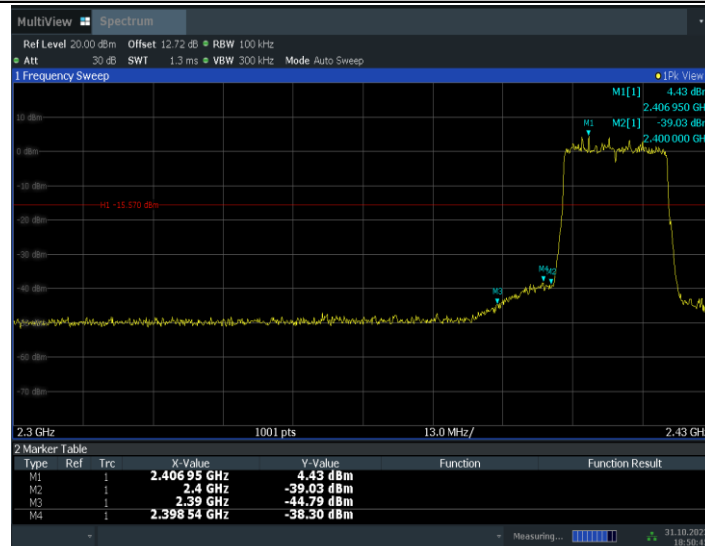
13:56:34 28.09.2023

11AX20MIMO_Ant12_Low_2412



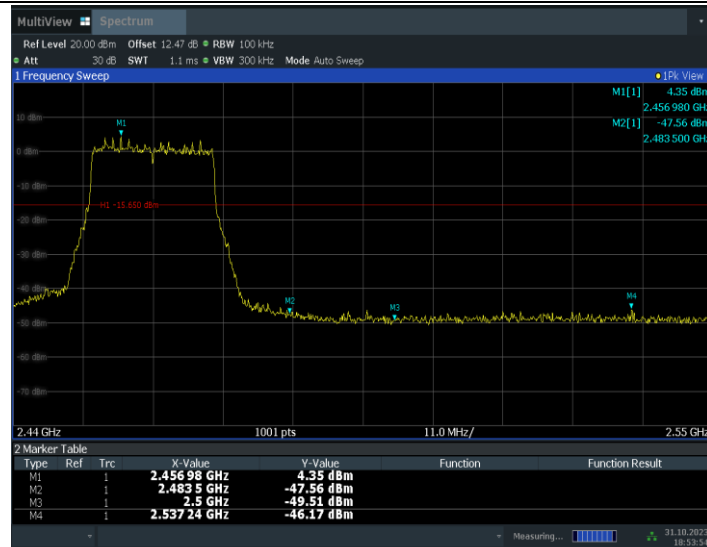
18:49:49 31.10.2023

11AX20MIMO_Ant7_Low_2412



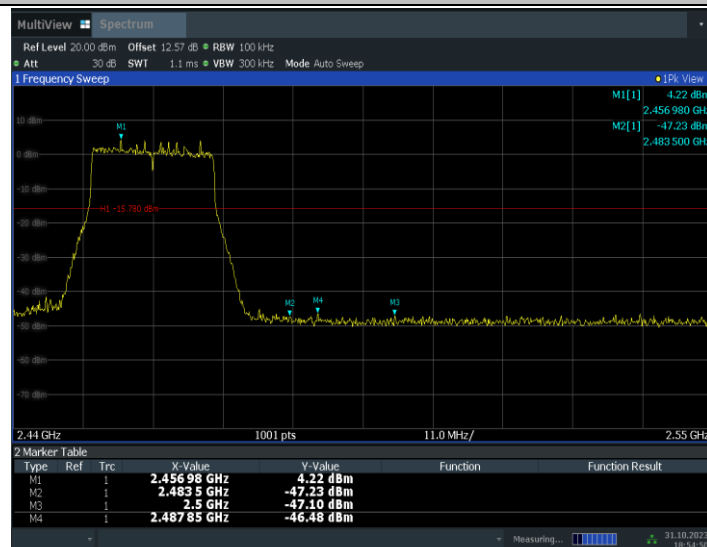
18:50:46 31.10.2023

11AX20MIMO_Ant12_High_2462



18:53:55 31.10.2023

11AX20MIMO_Ant7_High_2462



18:54:50 31.10.2023

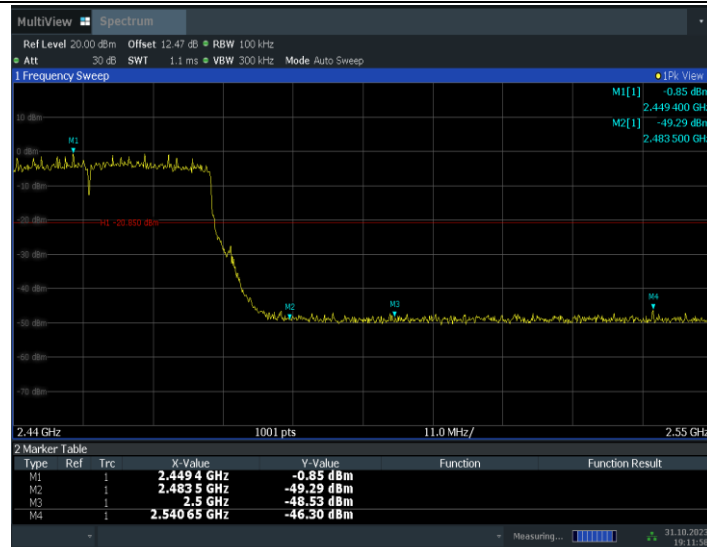
11BE40MIMO_Ant12_Low_2422



11BE40MIMO_Ant7_Low_2422

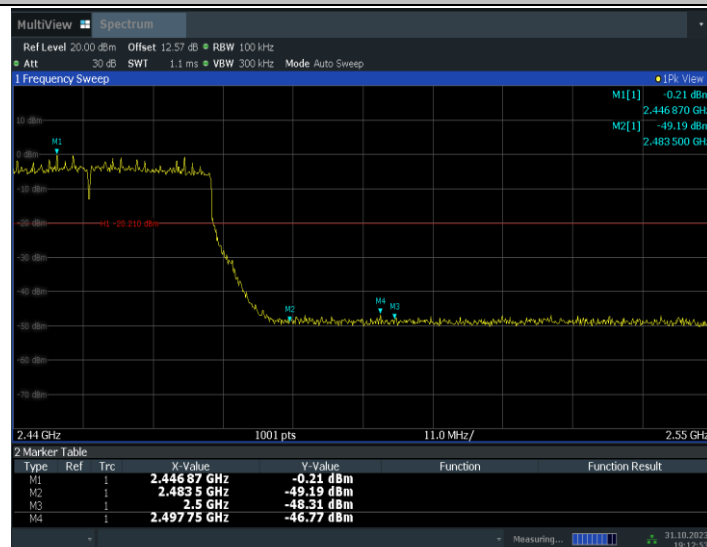


11BE40MIMO_Ant12_High_2452



19:11:58 31.10.2023

11BE40MIMO_Ant7_High_2452

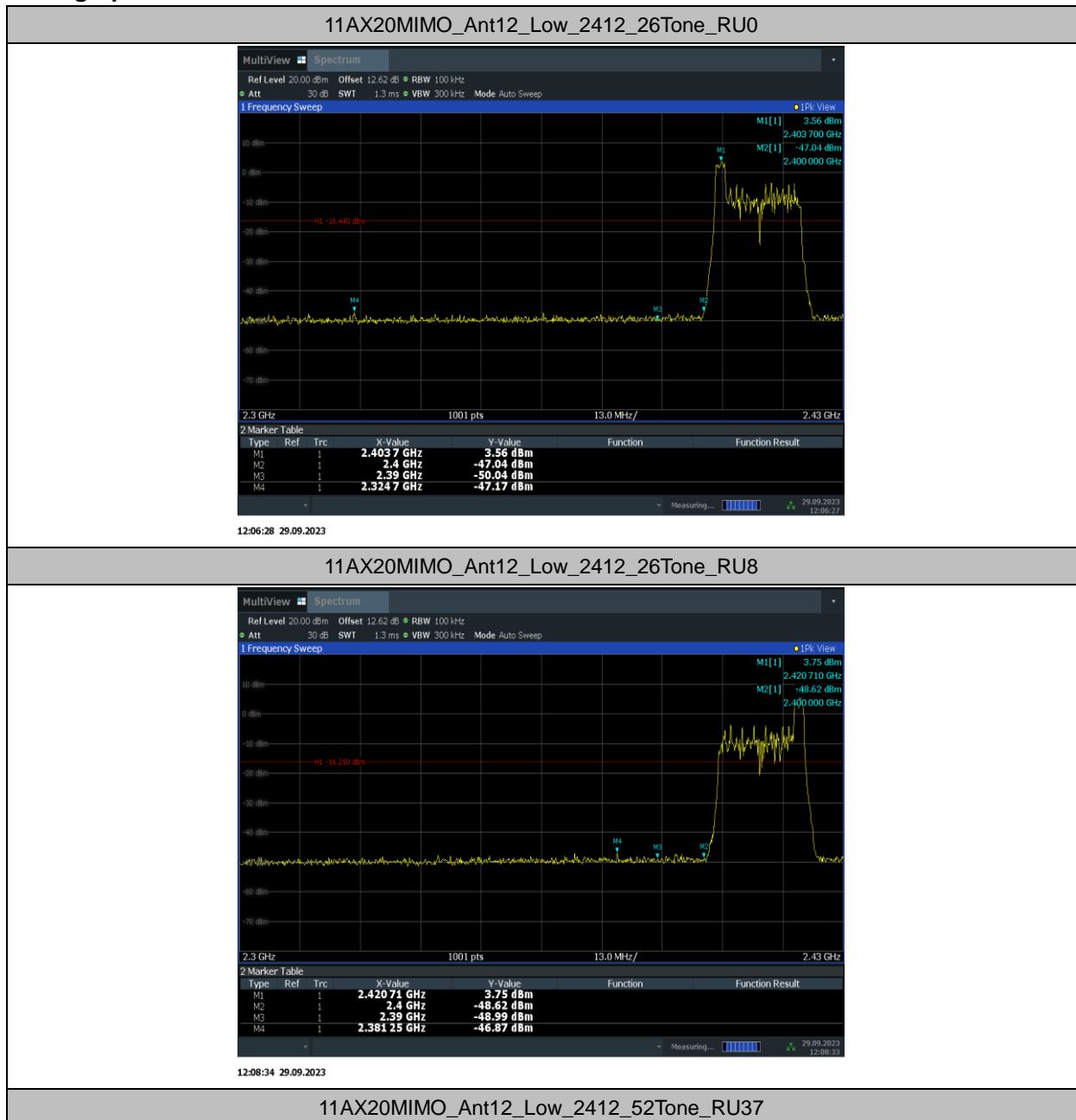


19:12:54 31.10.2023

RU Mode

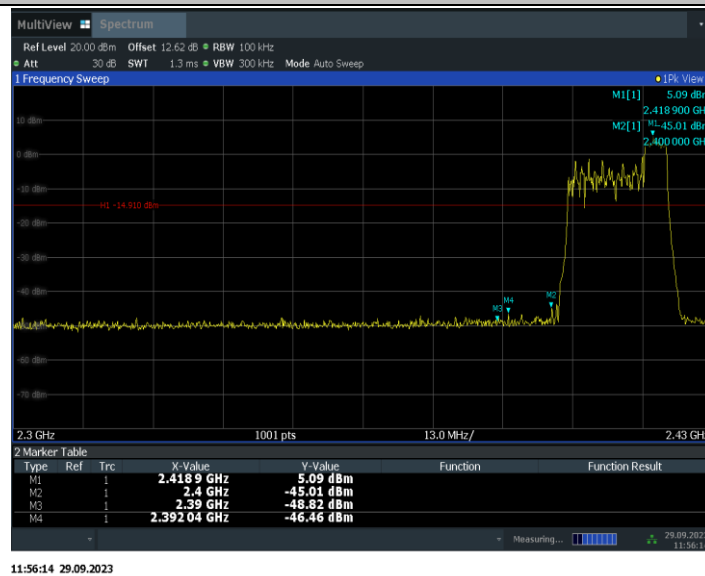
Test Mode	Antenna	Channel	Frequency [MHz]	Ru Size	Ru Index	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant12	Low	2412	26Tone	RU0	3.56	-47.17	≤-16.44	PASS
					RU8	3.75	-46.87	≤-16.25	PASS
				52Tone	RU37	4.14	-42.77	≤-15.86	PASS
					RU40	5.09	-46.46	≤-14.91	PASS
				106Tone	RU53	4.57	-33.79	≤-15.43	PASS
					RU54	4.68	-38.89	≤-15.32	PASS
	Ant7	Low	2412	26Tone	RU0	4.37	-46.82	≤-15.63	PASS
					RU8	3.53	-47.44	≤-16.47	PASS
				52Tone	RU37	5.00	-42.55	≤-15	PASS
					RU40	4.21	-46.93	≤-15.79	PASS
				106Tone	RU53	5.22	-36.09	≤-14.78	PASS
					RU54	5.14	-42.94	≤-14.86	PASS
	Ant12	High	2462	26Tone	RU0	4.28	-47.03	≤-15.72	PASS
					RU8	3.19	-46.73	≤-16.81	PASS
				52Tone	RU37	4.24	-46.41	≤-15.76	PASS
					RU40	3.98	-46.84	≤-16.02	PASS
				106Tone	RU53	5.02	-45.67	≤-14.98	PASS
					RU54	4.05	-46.22	≤-15.95	PASS
	Ant7	High	2462	26Tone	RU0	5.11	-46.52	≤-14.89	PASS
					RU8	3.42	-46.2	≤-16.58	PASS
				52Tone	RU37	5.34	-46.47	≤-14.66	PASS
					RU40	3.85	-46.61	≤-16.15	PASS
				106Tone	RU53	5.56	-46.62	≤-14.44	PASS
					RU54	4.61	-46.57	≤-15.39	PASS

Test graphs as below:





11AX20MIMO_Ant12_Low_2412_52Tone_RU40



11AX20MIMO_Ant12_Low_2412_106Tone_RU53



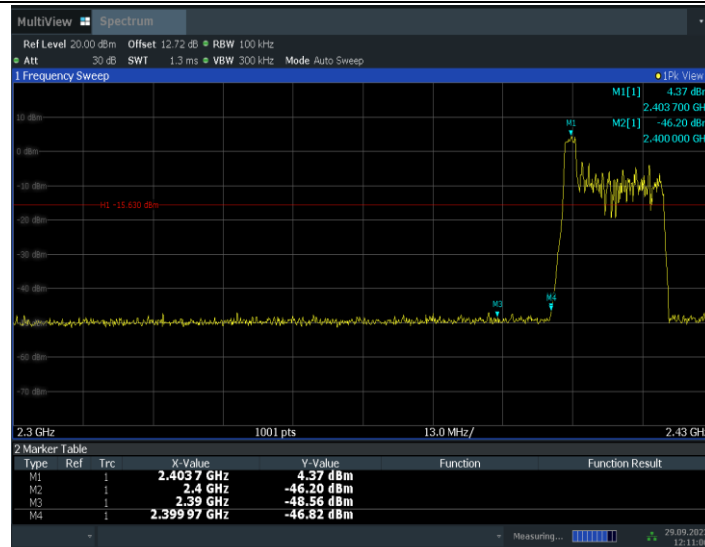
11:58:53 29.09.2023

11AX20MIMO_Ant12_Low_2412_106Tone_RU54



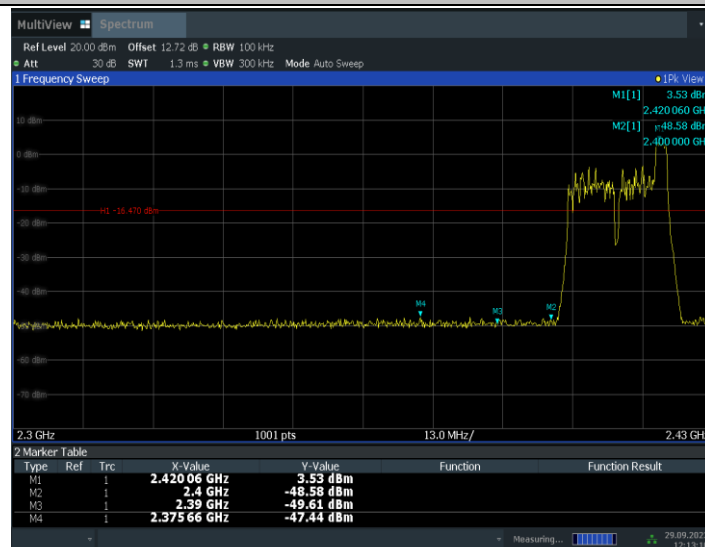
12:00:59 29.09.2023

11AX20MIMO_Ant7_Low_2412_26Tone_RU0



12:11:06 29.09.2023

11AX20MIMO_Ant7_Low_2412_26Tone_RU8



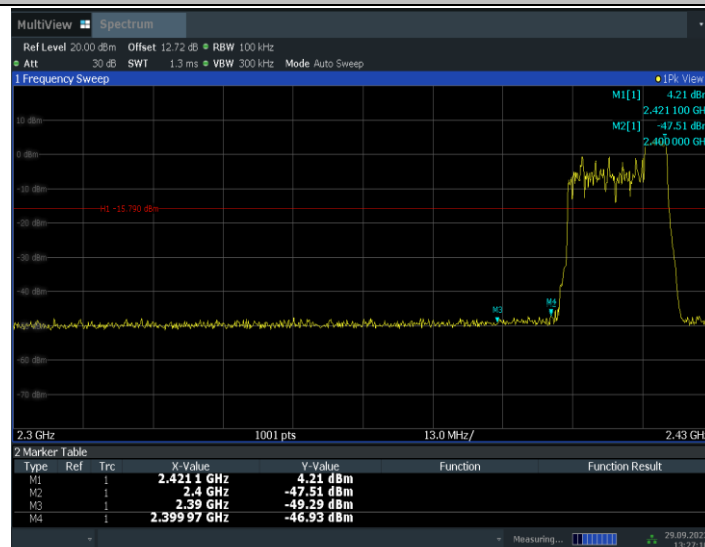
12:13:10 29.09.2023

11AX20MIMO_Ant7_Low_2412_52Tone_RU37



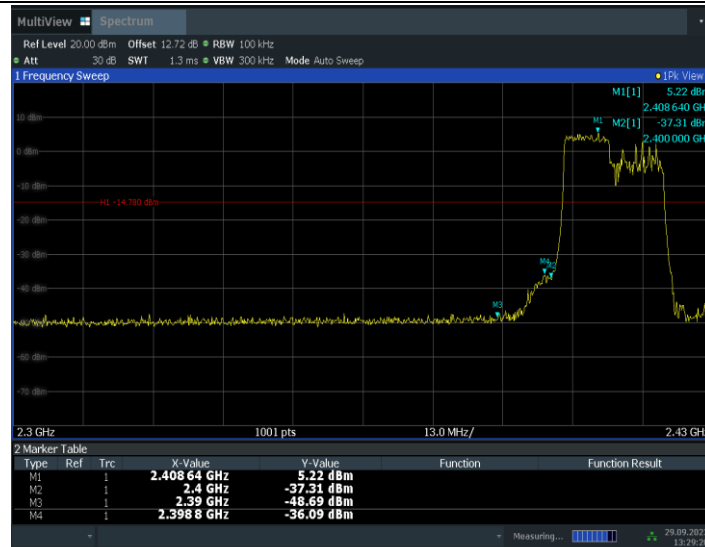
13:25:05 29.09.2023

11AX20MIMO_Ant7_Low_2412_52Tone_RU40



13:27:11 29.09.2023

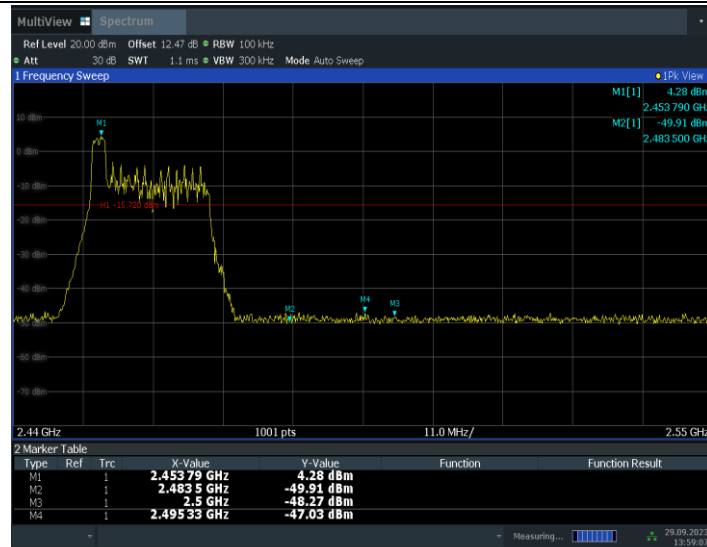
11AX20MIMO_Ant7_Low_2412_106Tone_RU53



11AX20MIMO_Ant7_Low_2412_106Tone_RU54

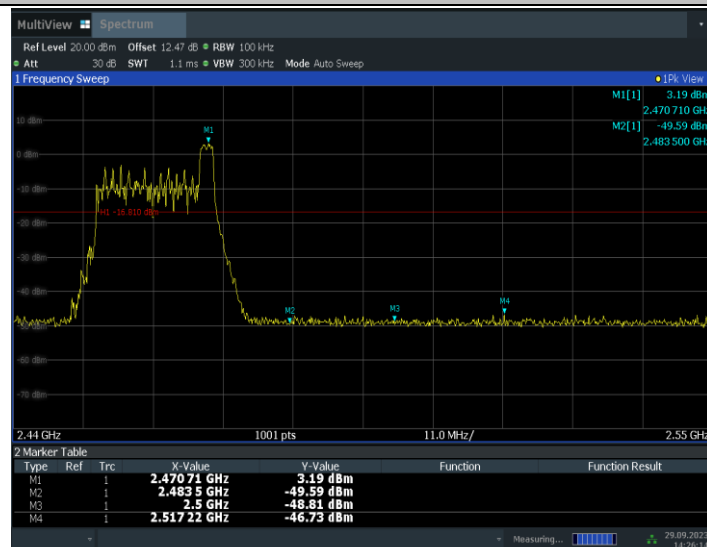


11AX20MIMO_Ant12_High_2462_26Tone_RU0



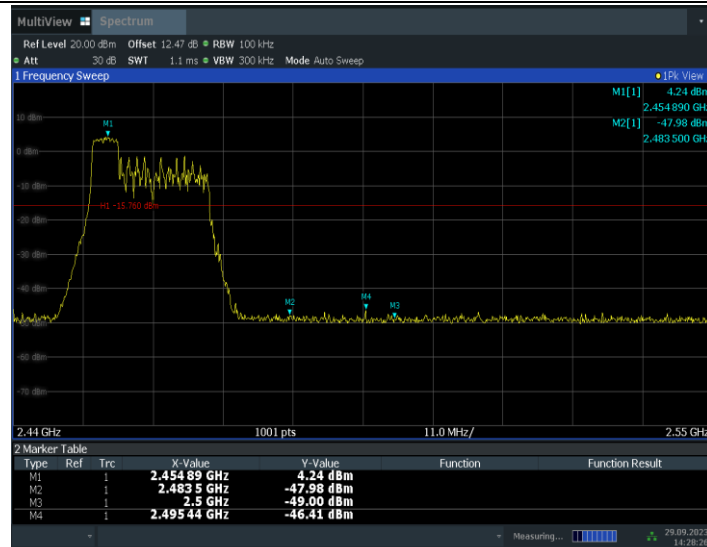
13:59:07 29.09.2023

11AX20MIMO_Ant12_High_2462_26Tone_RU8



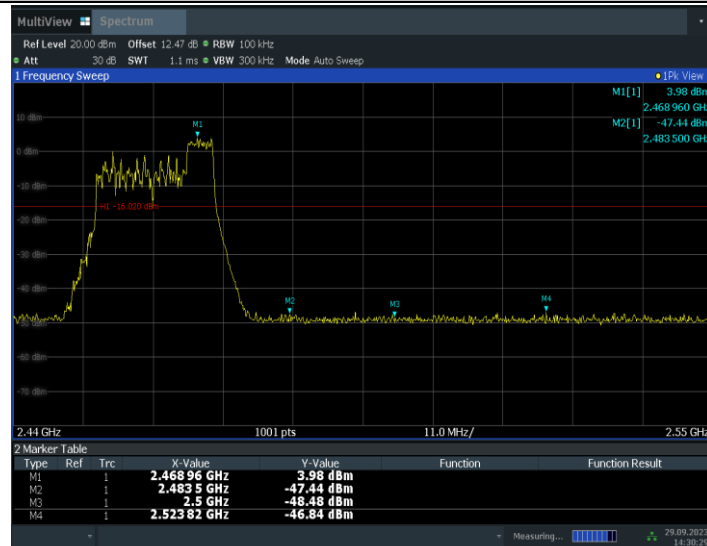
14:26:14 29.09.2023

11AX20MIMO_Ant12_High_2462_52Tone_RU37



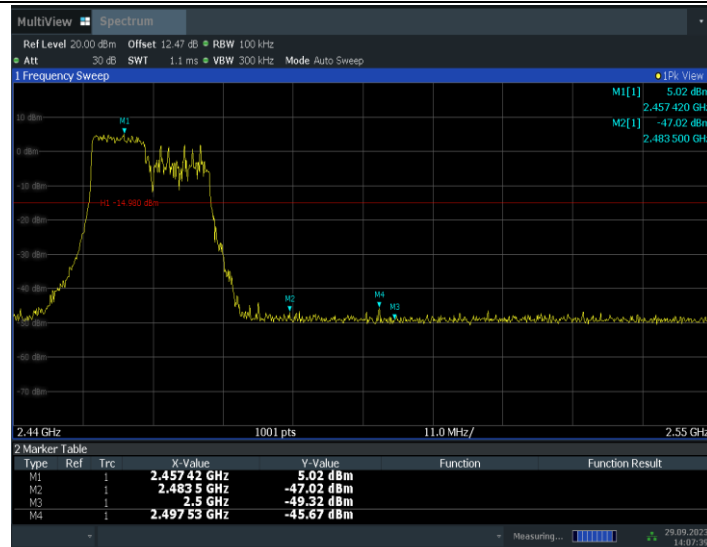
14:28:26 29.09.2023

11AX20MIMO_Ant12_High_2462_52Tone_RU40



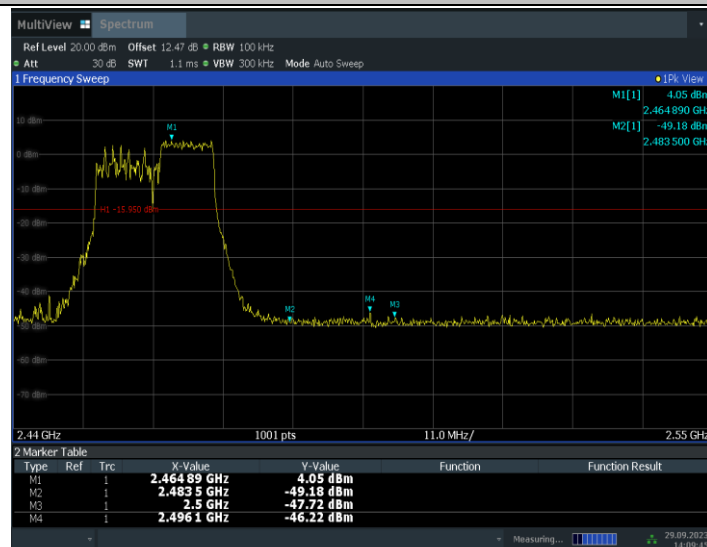
14:30:30 29.09.2023

11AX20MIMO_Ant12_High_2462_106Tone_RU53



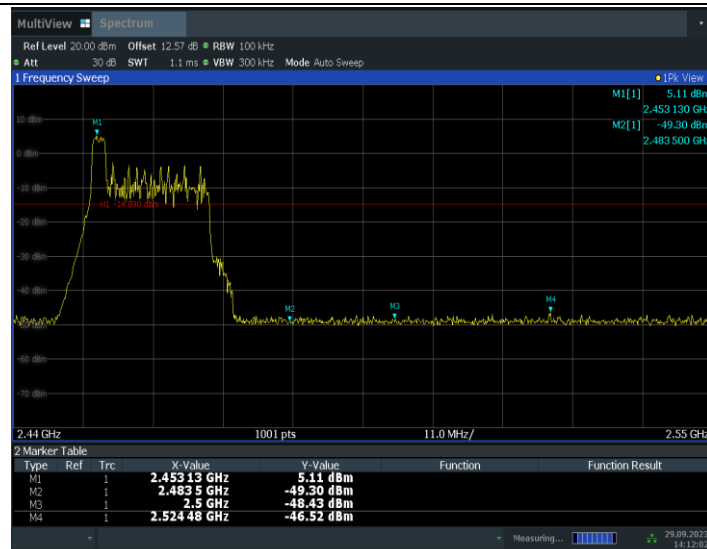
14:07:39 29.09.2023

11AX20MIMO_Ant12_High_2462_106Tone_RU54



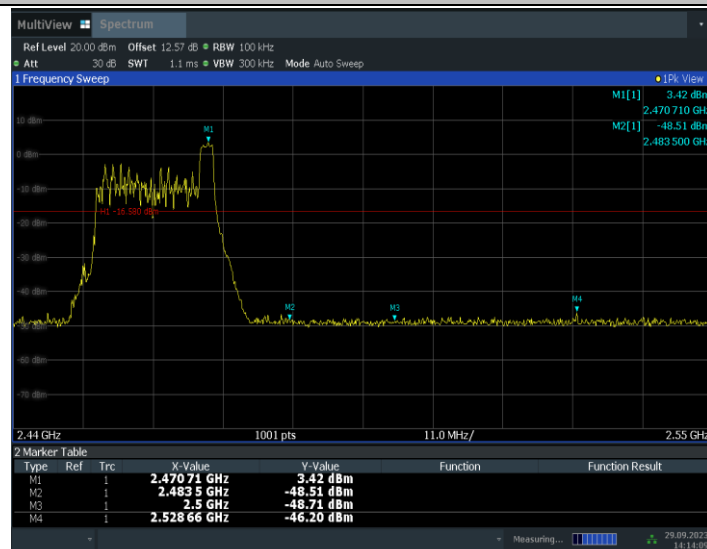
14:09:46 29.09.2023

11AX20MIMO_Ant7_High_2462_26Tone_RU0



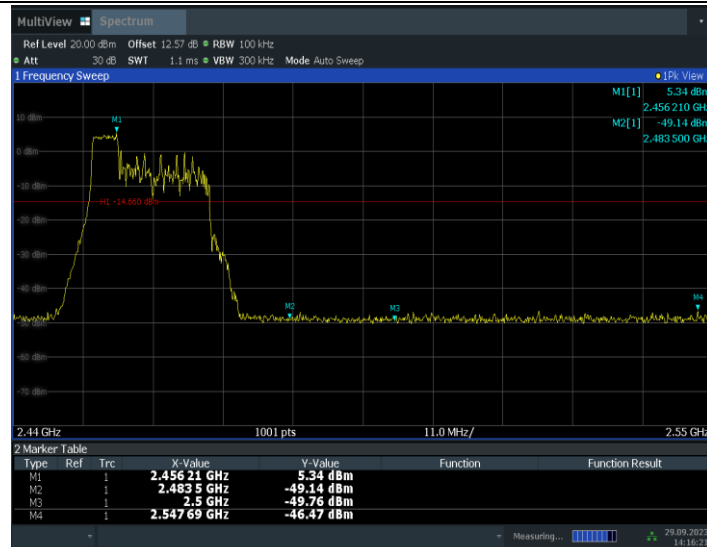
14:12:02 29.09.2023

11AX20MIMO_Ant7_High_2462_26Tone_RU8



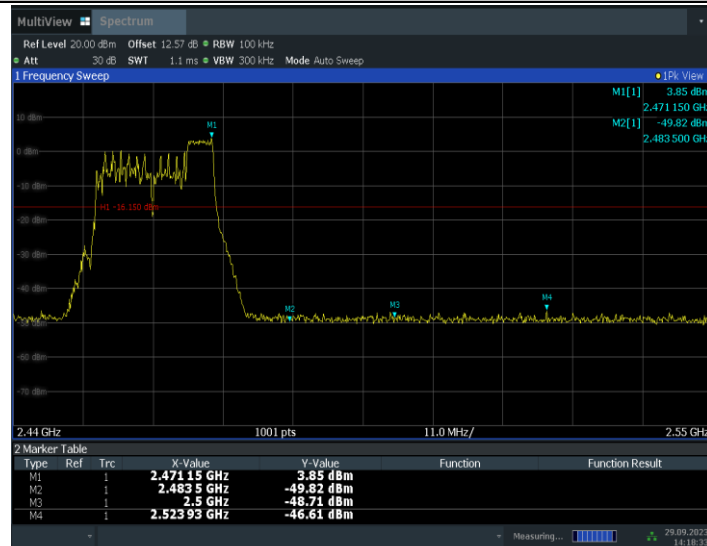
14:14:10 29.09.2023

11AX20MIMO_Ant7_High_2462_52Tone_RU37



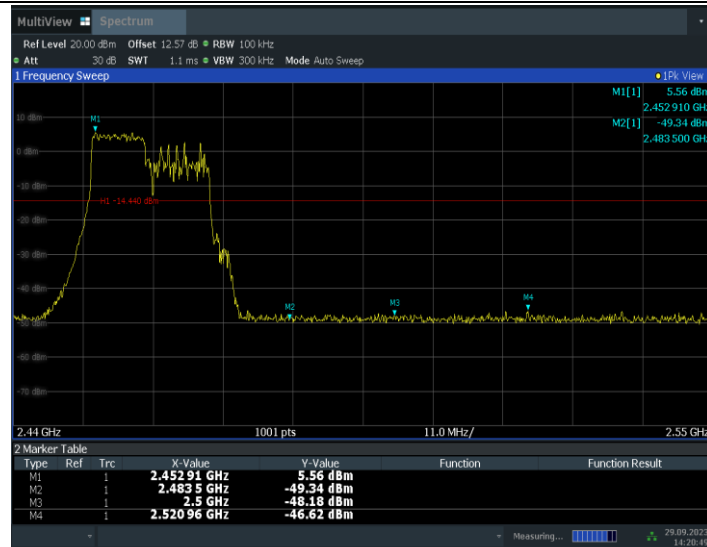
14:16:21 29.09.2023

11AX20MIMO_Ant7_High_2462_52Tone_RU40



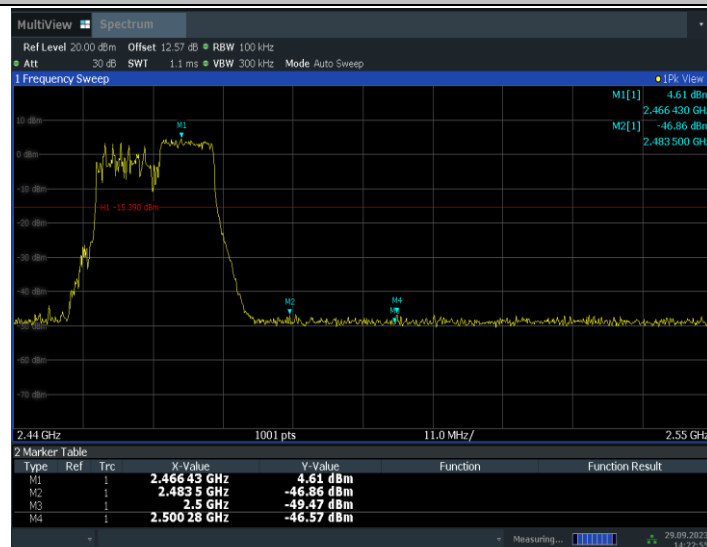
14:18:33 29.09.2023

11AX20MIMO_Ant7_High_2462_106Tone_RU53



14:20:49 29.09.2023

11AX20MIMO_Ant7_High_2462_106Tone_RU54

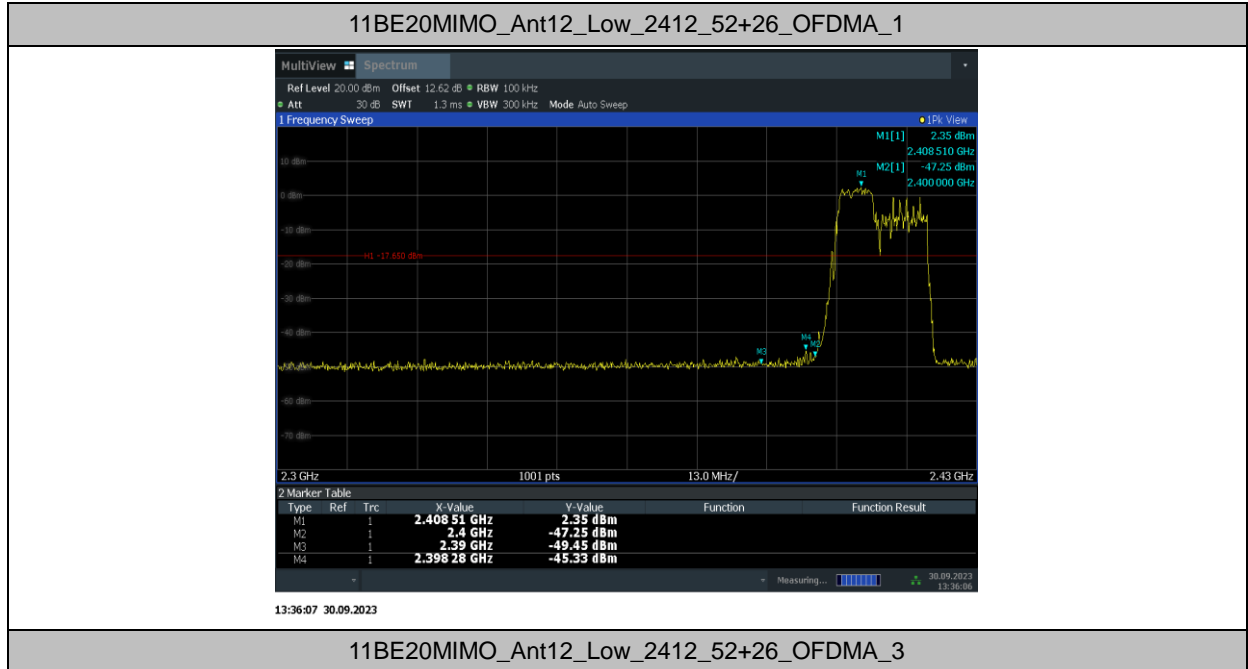


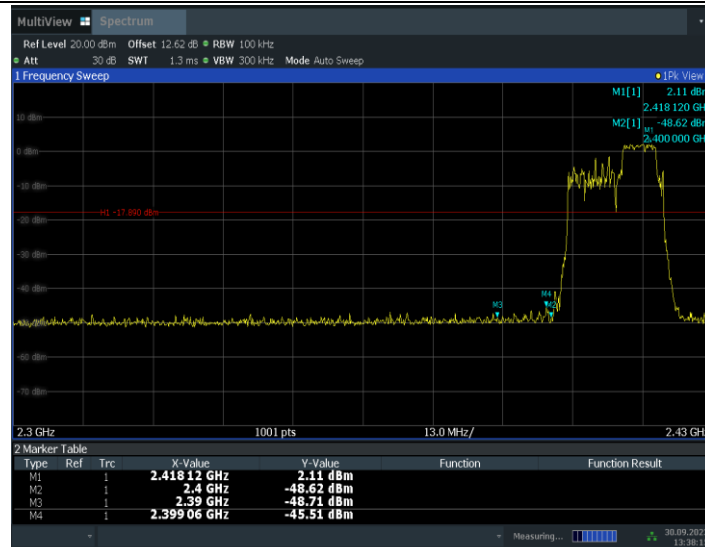
14:22:56 29.09.2023

MRU

Test Mode	Antenna	ChName	Channel	Mru Type	Mru Index	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11BE20MIMO	Ant12	Low	2412	52+26_OFDMA	1	2.35	-45.33	≤-17.65	PASS
					3	2.11	-45.51	≤-17.89	PASS
				106+26_OFDMA	1	3.52	-33.53	≤-16.48	PASS
					2	3.93	-35.35	≤-16.07	PASS
	Ant7	Low	2412	52+26_OFDMA	1	0.05	-47.3	≤-19.95	PASS
					3	2.86	-46.42	≤-17.14	PASS
				106+26_OFDMA	1	4.70	-36.15	≤-15.3	PASS
					2	4.04	-39.4	≤-15.96	PASS
	Ant12	High	2462	52+26_OFDMA	1	2.62	-46.96	≤-17.38	PASS
					3	1.84	-46.74	≤-18.16	PASS
				106+26_OFDMA	1	4.32	-46.41	≤-15.68	PASS
					2	3.39	-46.62	≤-16.61	PASS
	Ant7	High	2462	52+26_OFDMA	1	3.42	-46.57	≤-16.58	PASS
					3	1.99	-45.42	≤-18.01	PASS
				106+26_OFDMA	1	4.10	-46.84	≤-15.9	PASS
					2	4.32	-46.54	≤-15.68	PASS

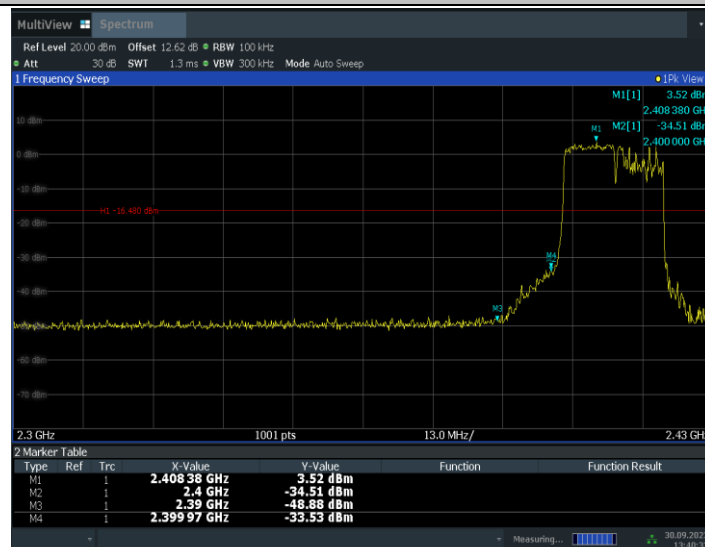
Test graphs as below:





13:38:16 30.09.2023

11BE20MIMO_Ant12_Low_2412_106+26_OFDMA_1



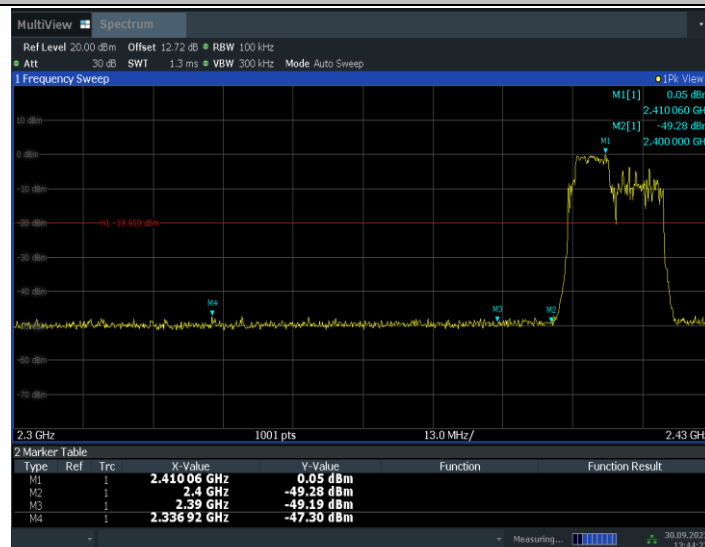
13:40:34 30.09.2023

11BE20MIMO_Ant12_Low_2412_106+26_OFDMA_2



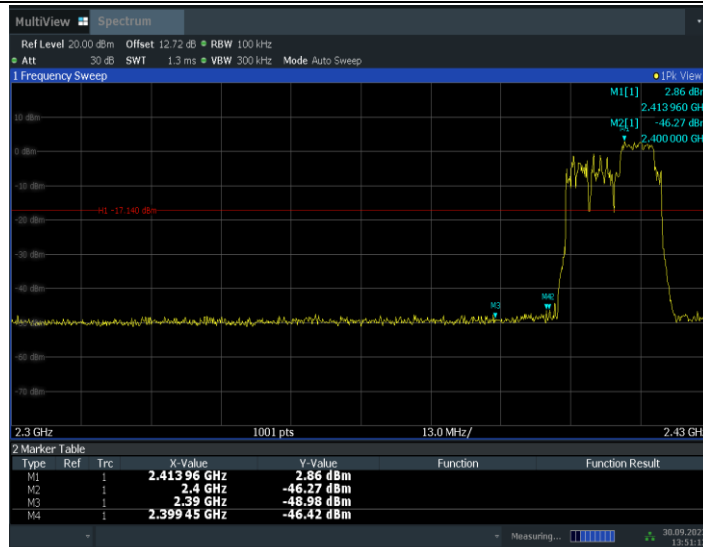
13:42:22 30.09.2023

11BE20MIMO_Ant7_Low_2412_52+26_OFDMA_1



13:44:23 30.09.2023

11BE20MIMO_Ant7_Low_2412_52+26_OFDMA_3



13:51:13 30.09.2023

11BE20MIMO_Ant7_Low_2412_106+26_OFDMA_1

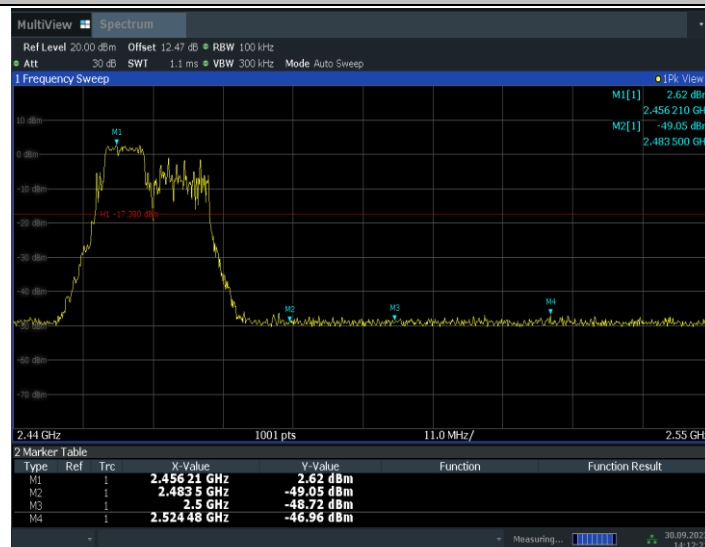


13:53:13 30.09.2023

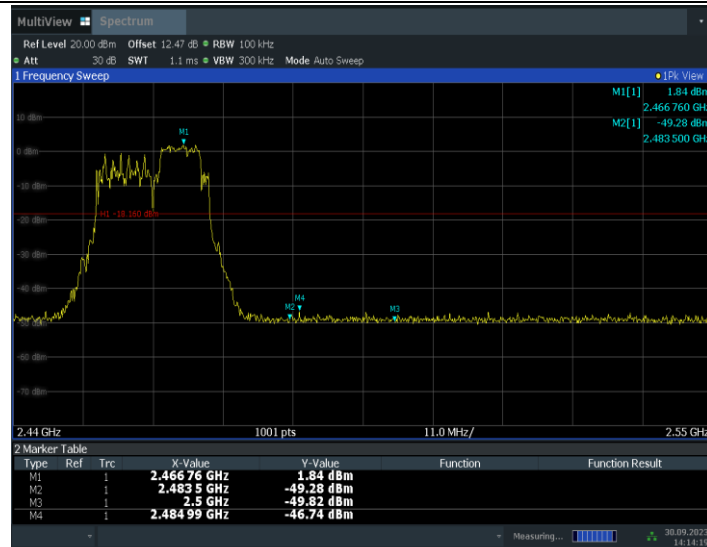
11BE20MIMO_Ant7_Low_2412_106+26_OFDMA_2



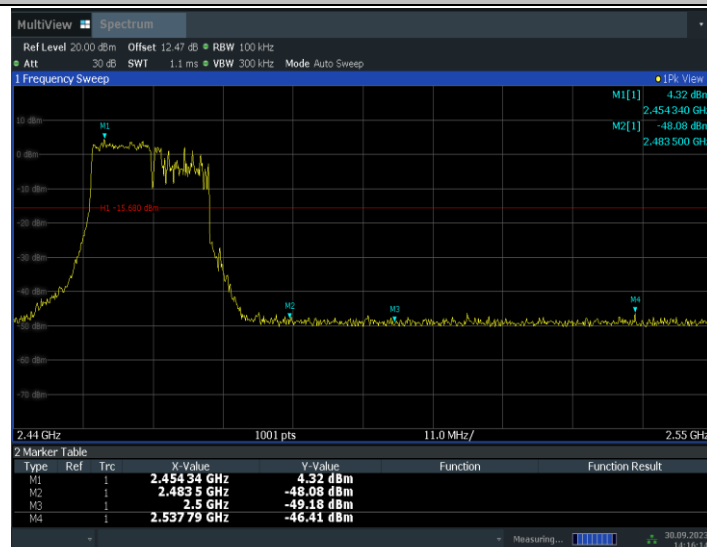
11BE20MIMO_Ant12_High_2462_52+26_OFDMA_1



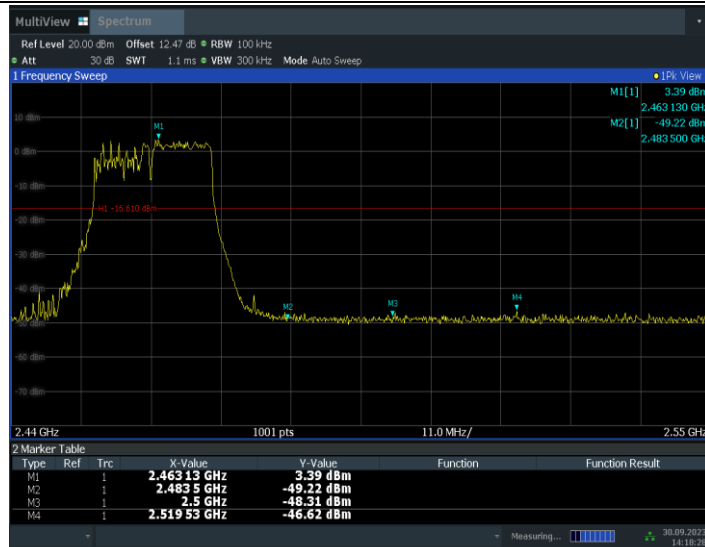
11BE20MIMO_Ant12_High_2462_52+26_OFDMA_3



11BE20MIMO_Ant12_High_2462_106+26_OFDMA_1

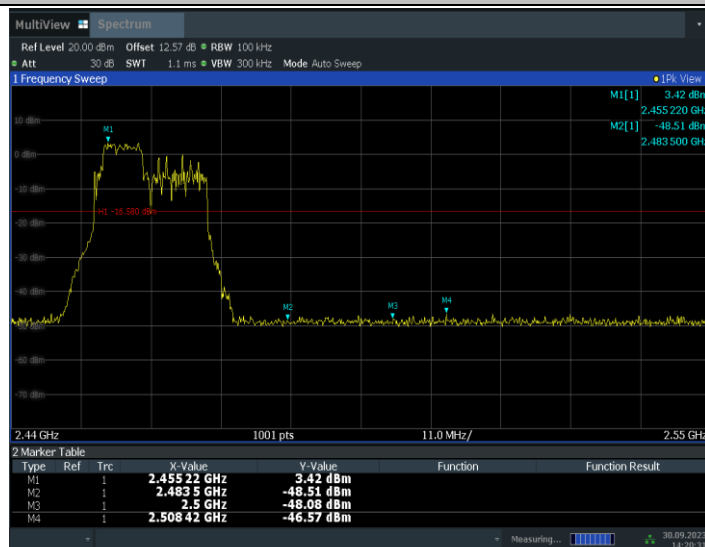


11BE20MIMO_Ant12_High_2462_106+26_OFDMA_2



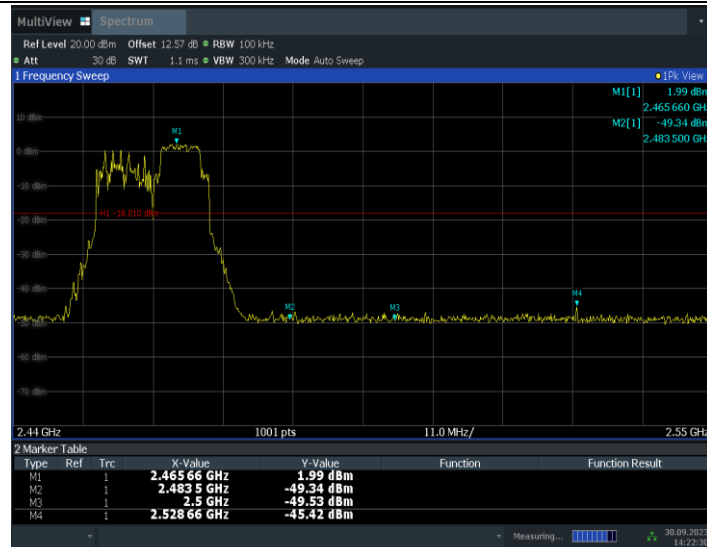
14:18:28 30.09.2023

11BE20MIMO_Ant7_High_2462_52+26_OFDMA_1

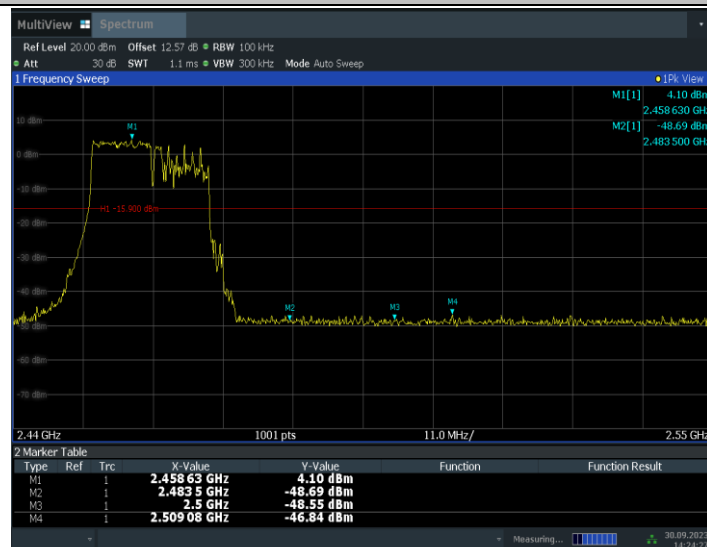


14:20:32 30.09.2023

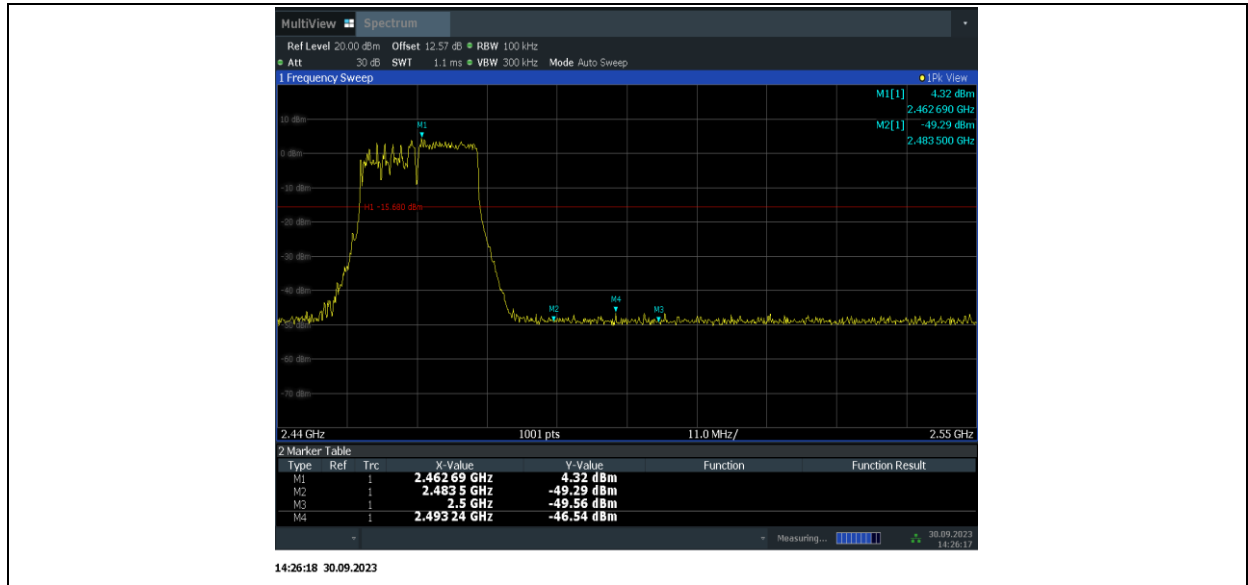
11BE20MIMO_Ant7_High_2462_52+26_OFDMA_3



11BE20MIMO_Ant7_High_2462_106+26_OFDMA_1



11BE20MIMO_Ant7_High_2462_106+26_OFDMA_2



Conclusion: Pass

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission – Conducted

Method of Measurement: See ANSI C63.10-2013-clause 11.11

Establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency
- Set the span to ≥ 1.5 times the DTS bandwidth
- Set the RBW= 100 kHz
- Set the VBW= 300 kHz
- Detector = Peak
- Sweep time = auto couple
- Trace mode = max hold
- Allow trace to fully stabilize
- Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW = 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

EUT ID: UT01a

Measurement Results:

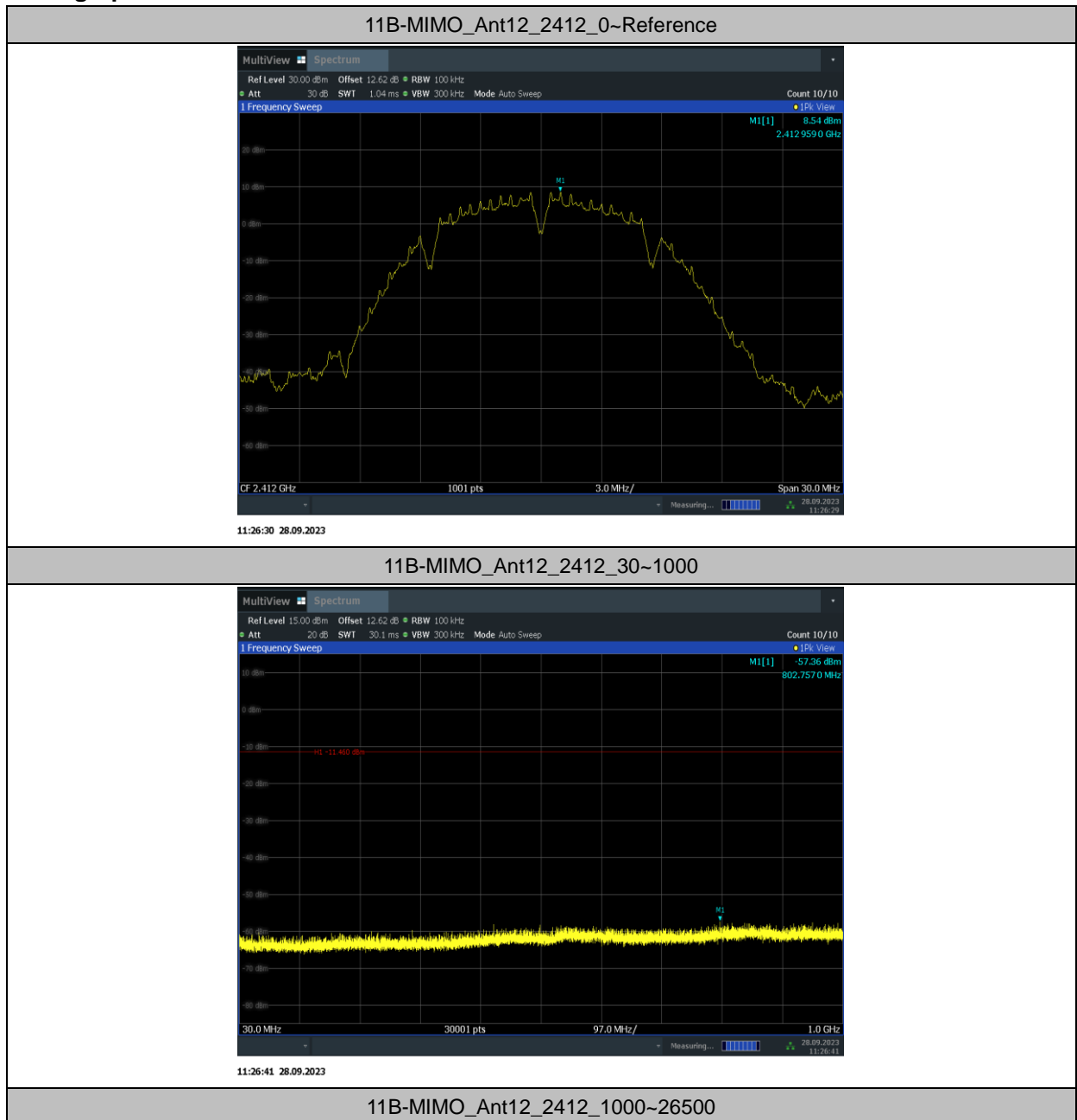
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-MIMO	Ant12	2412	Reference	8.54	8.54	---	PASS
			30~1000	8.54	-57.36	≤ -11.46	PASS
			1000~26500	8.54	-43.74	≤ -11.46	PASS
	Ant7	2412	Reference	9.05	9.05	---	PASS

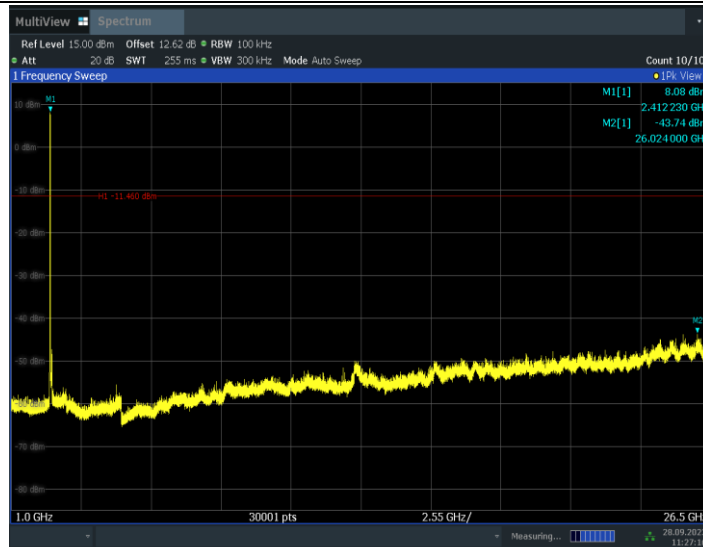
			30~1000	9.05	-57.19	≤ -10.95	PASS
			1000~2650 0	9.05	-44.29	≤ -10.95	PASS
			Reference	8.24	8.24	---	PASS
	Ant12	2437	30~1000	8.24	-57.31	≤ -11.76	PASS
			1000~2650 0	8.24	-44.47	≤ -11.76	PASS
			Reference	8.55	8.55	---	PASS
	Ant7	2437	30~1000	8.55	-56.94	≤ -11.45	PASS
			1000~2650 0	8.55	-44.64	≤ -11.45	PASS
			Reference	8.44	8.44	---	PASS
	Ant12	2462	30~1000	8.44	-57.09	≤ -11.56	PASS
			1000~2650 0	8.44	-44.49	≤ -11.56	PASS
			Reference	9.06	9.06	---	PASS
	Ant7	2462	30~1000	9.06	-57.52	≤ -10.94	PASS
			1000~2650 0	9.06	-44.42	≤ -10.94	PASS
			Reference	6.11	6.11	---	PASS
11G-MIMO	Ant12	2412	30~1000	6.11	-57.46	≤ -13.89	PASS
			1000~2650 0	6.11	-44.14	≤ -13.89	PASS
			Reference	6.55	6.55	---	PASS
	Ant7	2412	30~1000	6.55	-56.85	≤ -13.45	PASS
			1000~2650 0	6.55	-44.07	≤ -13.45	PASS
			Reference	6.16	6.16	---	PASS
	Ant12	2437	30~1000	6.16	-57.04	≤ -13.84	PASS
			1000~2650 0	6.16	-44.65	≤ -13.84	PASS
			Reference	6.79	6.79	---	PASS
	Ant7	2437	30~1000	6.79	-56.75	≤ -13.21	PASS
			1000~2650 0	6.79	-43.88	≤ -13.21	PASS
			Reference	6.31	6.31	---	PASS
	Ant12	2462	30~1000	6.31	-56.94	≤ -13.69	PASS
			1000~2650 0	6.31	-44.95	≤ -13.69	PASS
			Reference	6.98	6.98	---	PASS
	Ant7	2462	30~1000	6.98	-56.89	≤ -13.02	PASS
			1000~2650	6.98	-43.7	≤ -13.02	PASS

			0				
11AX20MIMO	Ant12	2412	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-57.08	≤ -13.98	PASS
			1000~2650 0	6.02	-44.61	≤ -13.98	PASS
	Ant7	2412	Reference	6.66	6.66	---	PASS
			30~1000	6.66	-57.35	≤ -13.34	PASS
			1000~2650 0	6.66	-44.21	≤ -13.34	PASS
	Ant12	2437	Reference	6.16	6.16	---	PASS
			30~1000	6.16	-57.44	≤ -13.84	PASS
			1000~2650 0	6.16	-43.57	≤ -13.84	PASS
	Ant7	2437	Reference	6.63	6.63	---	PASS
			30~1000	6.63	-56.98	≤ -13.37	PASS
			1000~2650 0	6.63	-43.75	≤ -13.37	PASS
	Ant12	2462	Reference	6.42	6.42	---	PASS
			30~1000	6.42	-57.45	≤ -13.58	PASS
			1000~2650 0	6.42	-44.05	≤ -13.58	PASS
	Ant7	2462	Reference	6.66	6.66	---	PASS
			30~1000	6.66	-56.74	≤ -13.34	PASS
			1000~2650 0	6.66	-44.64	≤ -13.34	PASS
11BE40MIMO	Ant12	2422	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-57.33	≤ -16.79	PASS
			1000~2650 0	3.21	-44.02	≤ -16.79	PASS
	Ant7	2422	Reference	2.98	2.98	---	PASS
			30~1000	2.98	-57.27	≤ -17.02	PASS
			1000~2650 0	2.98	-44.13	≤ -17.02	PASS
	Ant12	2437	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-56.72	≤ -16.53	PASS
			1000~2650 0	3.47	-44.24	≤ -16.53	PASS
	Ant7	2437	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-56.1	≤ -16.79	PASS
			1000~2650 0	3.21	-44.66	≤ -16.79	PASS
	Ant12	2452	Reference	3.23	3.23	---	PASS

			30~1000	3.23	-57.5	≤ -16.77	PASS
			1000~2650 0	3.23	-44.77	≤ -16.77	PASS
	Ant7	2452	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-56.7	≤ -16.18	PASS
			1000~2650 0	3.82	-44.49	≤ -16.18	PASS

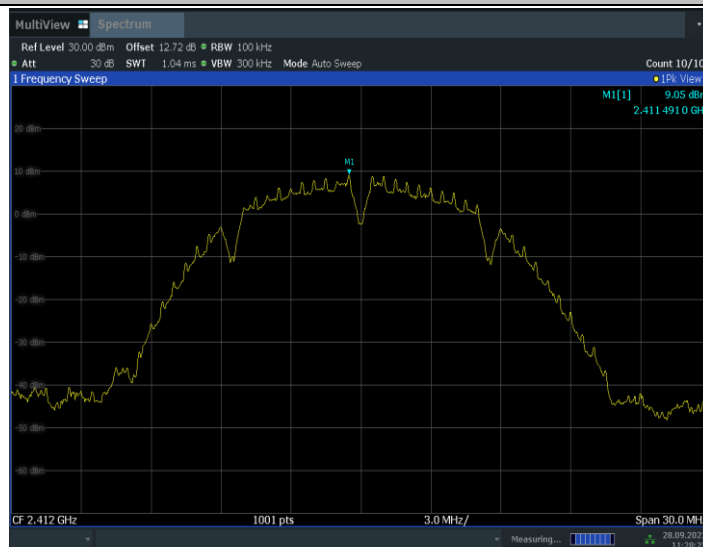
Test graphs as below:





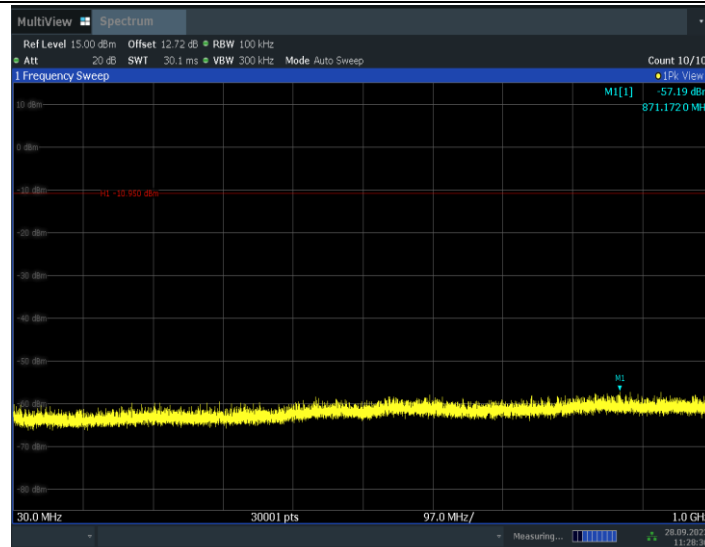
11:27:17 28.09.2023

11B-MIMO_Ant7_2412_0~Reference



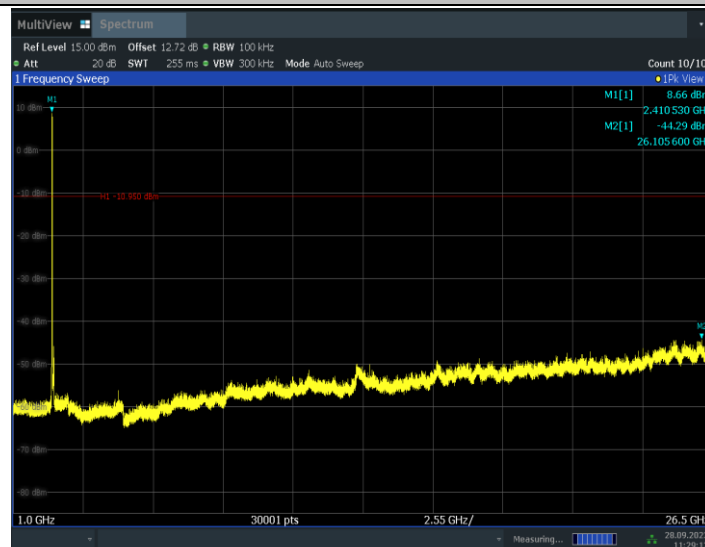
11:28:26 28.09.2023

11B-MIMO_Ant7_2412_30~1000



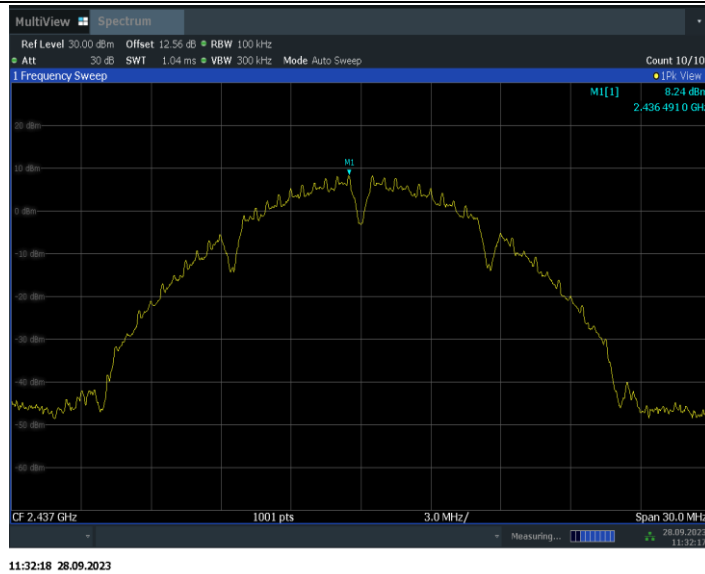
11:28:36 28.09.2023

11B-MIMO_Ant7_2412_1000~26500

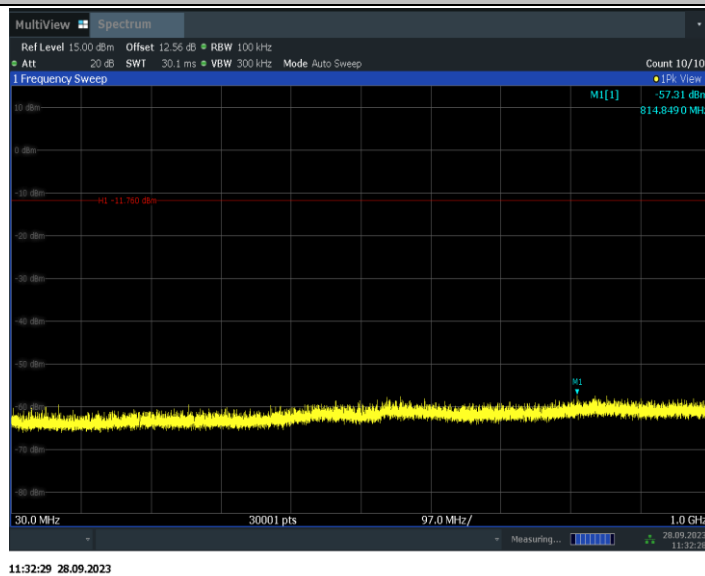


11:29:12 28.09.2023

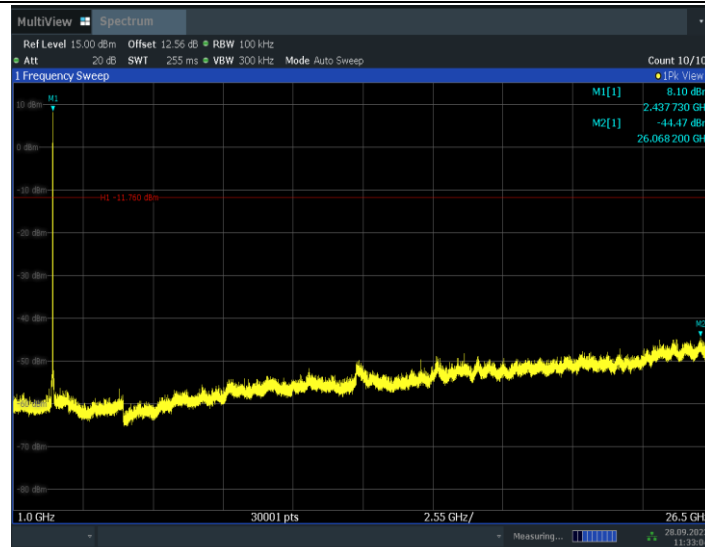
11B-MIMO_Ant12_2437_0~Reference



11B-MIMO_Ant12_2437_30~1000

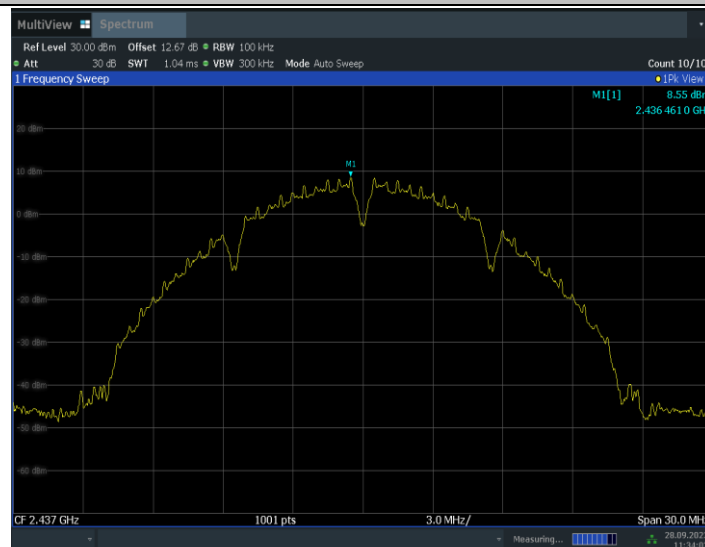


11B-MIMO_Ant12_2437_1000~26500



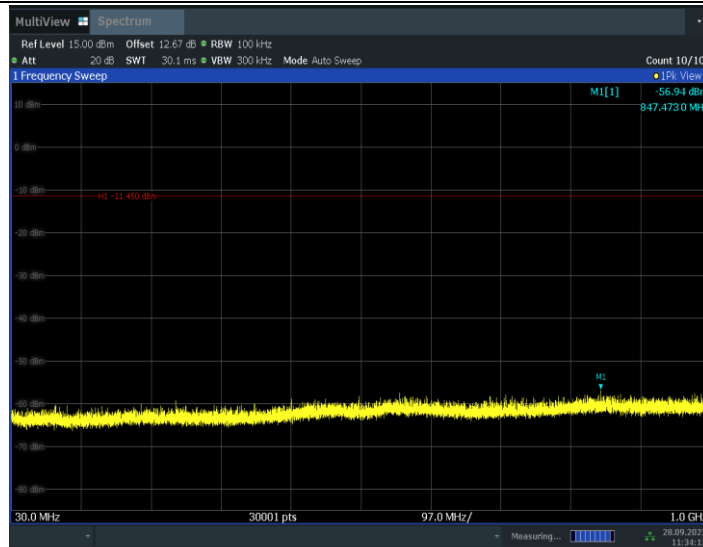
11:33:05 28.09.2023

11B-MIMO_Ant7_2437_0~Reference



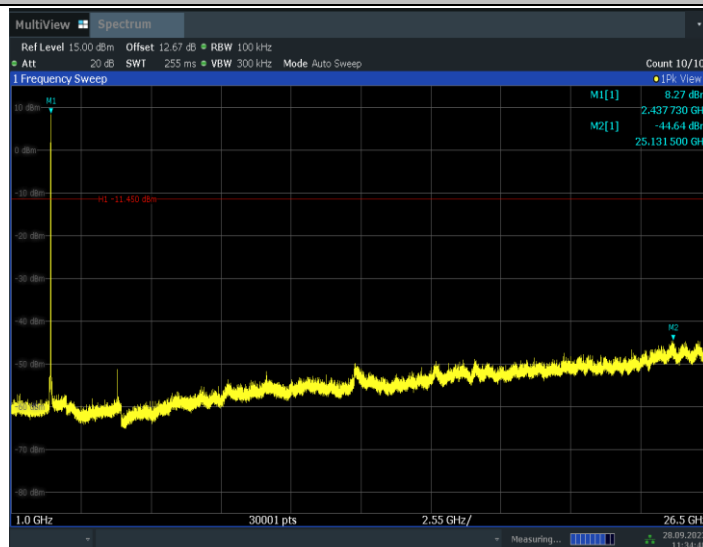
11:34:02 28.09.2023

11B-MIMO_Ant7_2437_30~1000



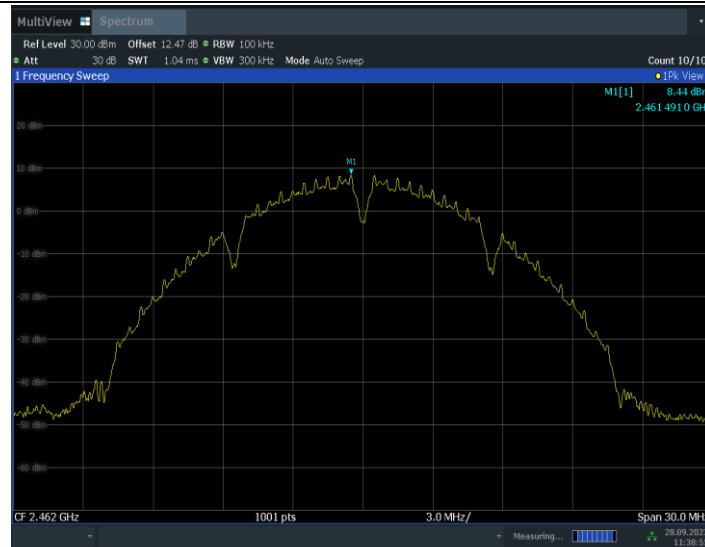
11:34:13 28.09.2023

11B-MIMO_Ant7_2437_1000~26500



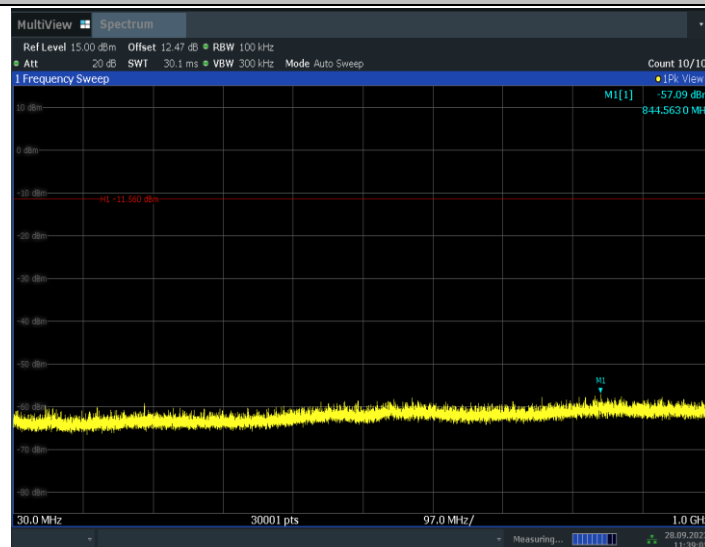
11:34:49 28.09.2023

11B-MIMO_Ant12_2462_0~Reference



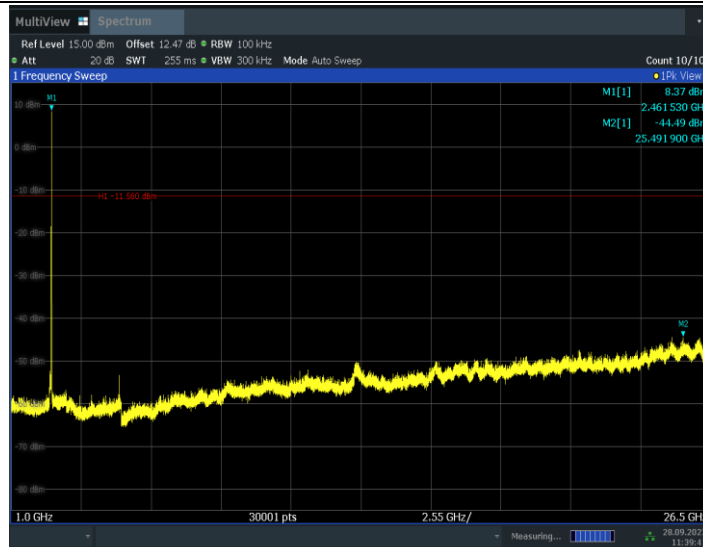
11:38:55 28.09.2023

11B-MIMO_Ant12_2462_30~1000

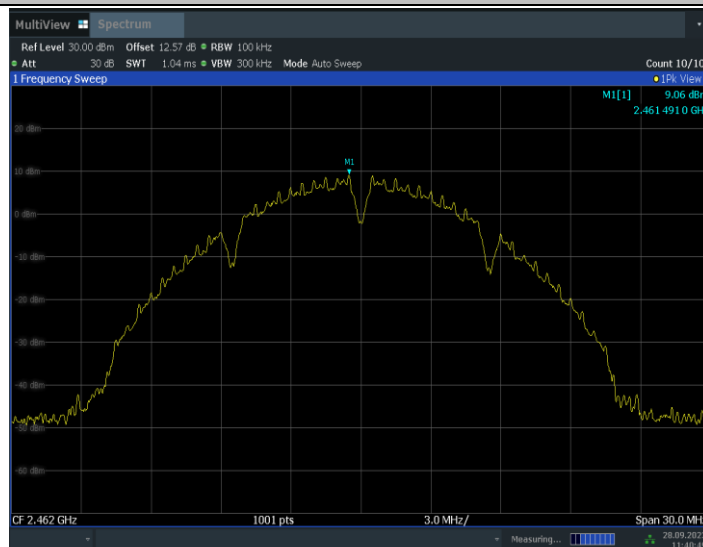


11:39:06 28.09.2023

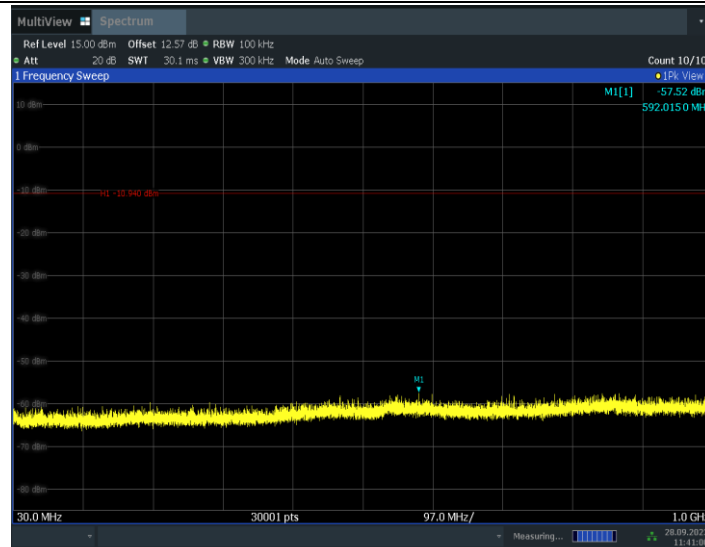
11B-MIMO_Ant12_2462_1000~26500



11B-MIMO_Ant7_2462_0~Reference

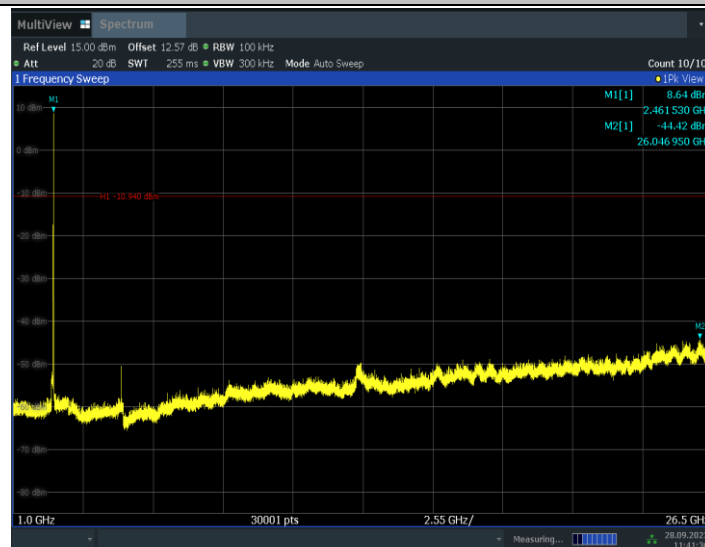


11B-MIMO_Ant7_2462_30~1000



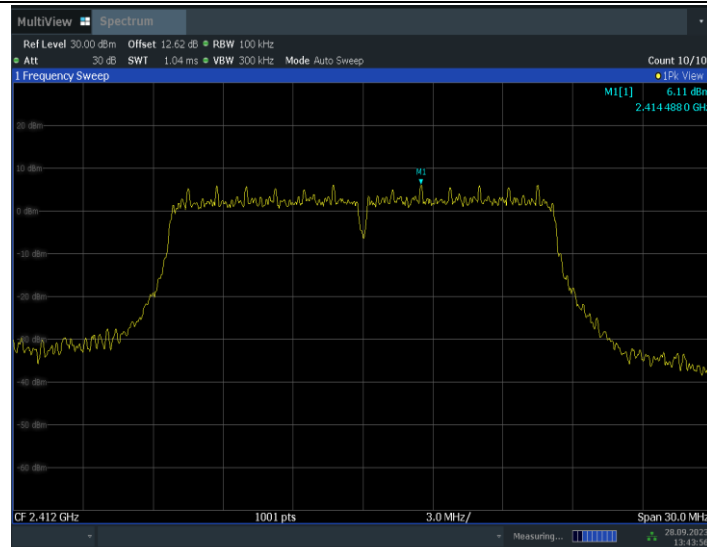
11:41:01 28.09.2023

11B-MIMO_Ant7_2462_1000~26500



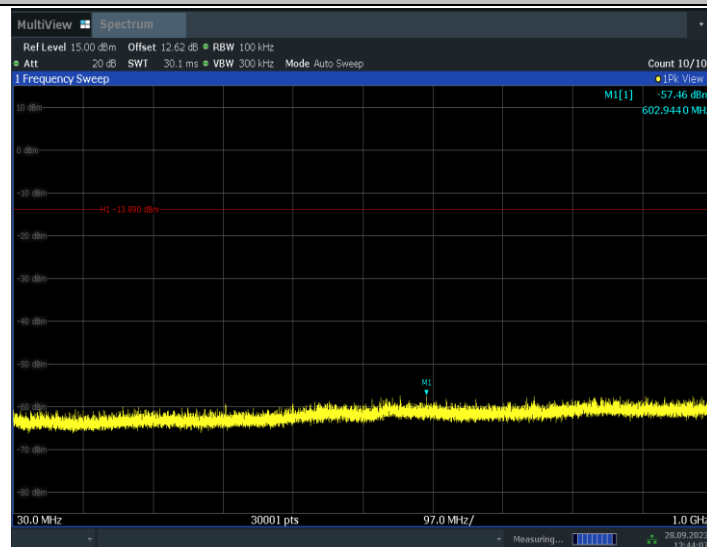
11:41:37 28.09.2023

11G-MIMO_Ant12_2412_0~Reference



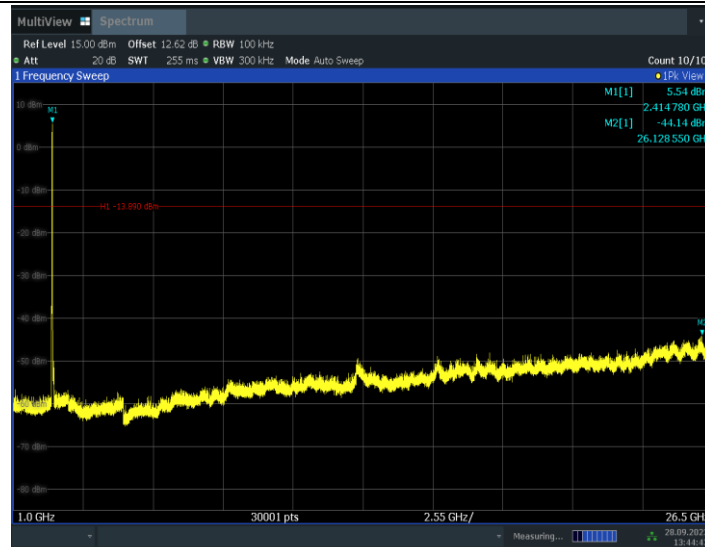
13:43:57 28.09.2023

11G-MIMO_Ant12_2412_30~1000



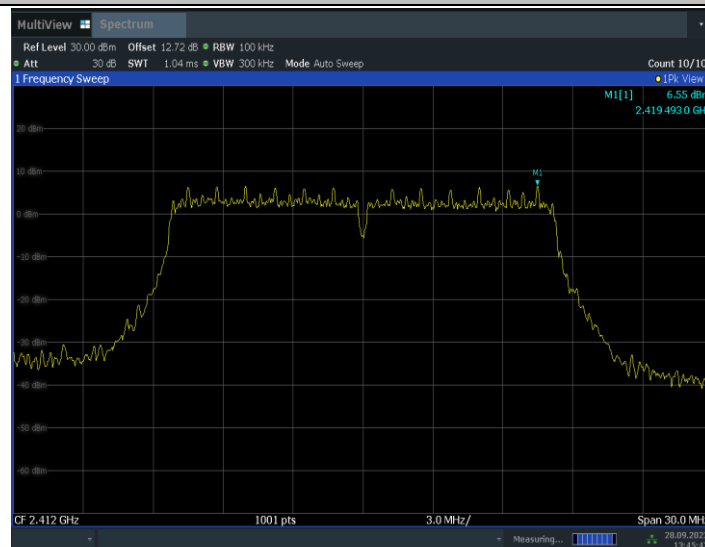
13:44:08 28.09.2023

11G-MIMO_Ant12_2412_1000~26500



13:44:44 28.09.2023

11G-MIMO_Ant7_2412_0~Reference



13:45:43 28.09.2023

11G-MIMO_Ant7_2412_30~1000