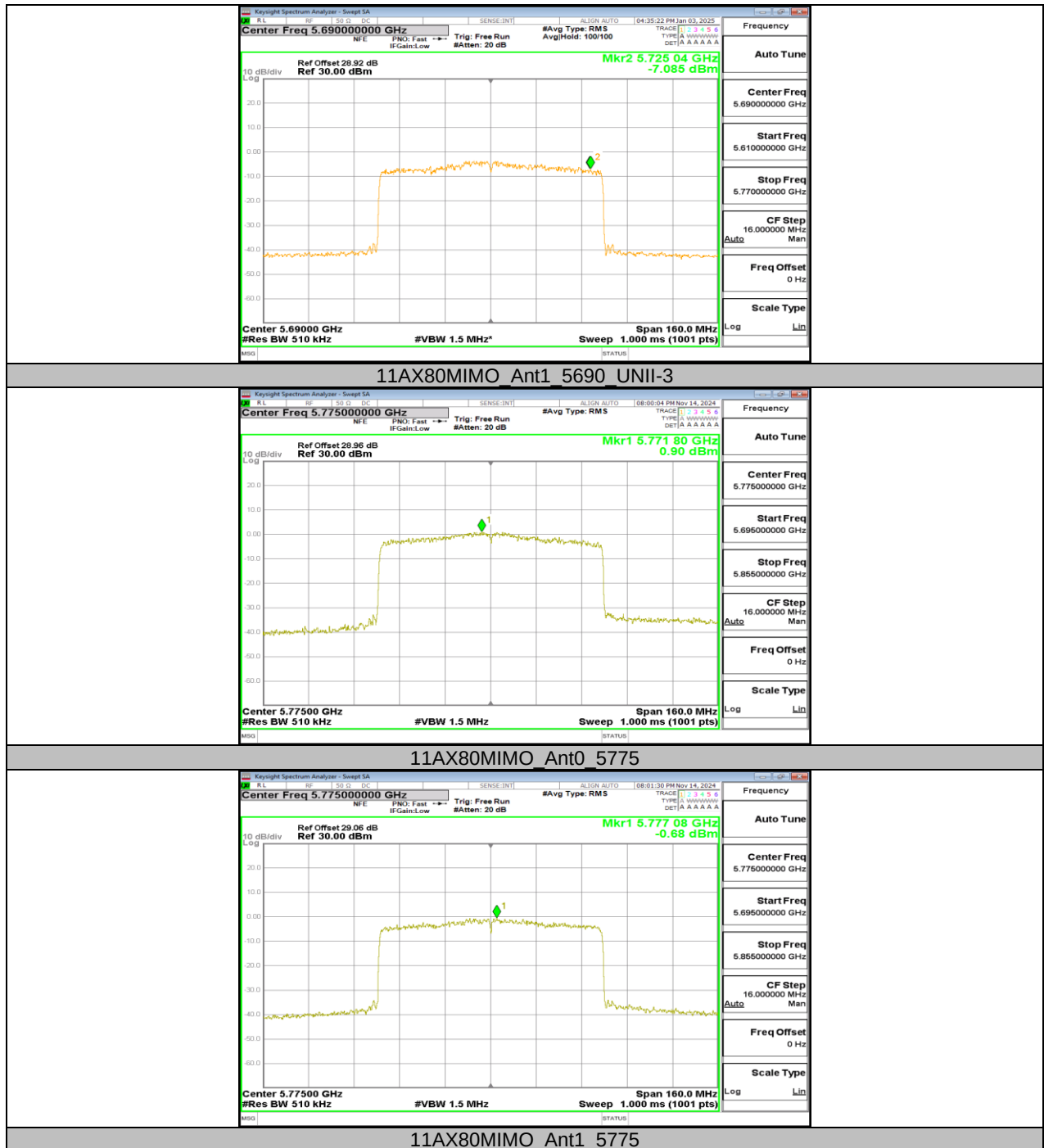




11.5.3. Test Result-Partial RU

Mode	Ant	Freq	Ru Size	Ru Index	Result [dBm/MHz]	Limit [dBm /MHz]	EIRP [dBm/MHz]	EIRP Limit [dBm/MHz]	Verdict
11AX20 MIMO	Ant0	5180	26 Tone	RU0	2.55	≤11.00	1.67	≤10.00	PASS
			52 Tone	RU37	2.25	≤11.00	1.37	≤10.00	PASS
			106 Tone	RU53	1.84	≤11.00	0.96	≤10.00	PASS
	Ant1	5180	26 Tone	RU0	3.86	≤11.00	4.39	≤10.00	PASS
			52 Tone	RU37	3.34	≤11.00	3.87	≤10.00	PASS
			106 Tone	RU53	3.21	≤11.00	3.74	≤10.00	PASS
	total	5180	26 Tone	RU0	6.26	≤11.00	9.80	≤10.00	PASS
			52 Tone	RU37	5.84	≤11.00	9.38	≤10.00	PASS
			106 Tone	RU53	5.59	≤11.00	9.13	≤10.00	PASS
	Ant0	5200	26 Tone	RU4	3.00	≤11.00	2.12	≤10.00	PASS
			52 Tone	RU38	2.06	≤11.00	1.18	≤10.00	PASS
			106 Tone	RU53	2.50	≤11.00	1.62	≤10.00	PASS
	Ant1	5200	26 Tone	RU4	3.45	≤11.00	3.98	≤10.00	PASS
			52 Tone	RU38	3.27	≤11.00	3.80	≤10.00	PASS
			106 Tone	RU53	3.46	≤11.00	3.99	≤10.00	PASS
	total	5200	26 Tone	RU4	6.24	≤11.00	9.78	≤10.00	PASS
			52 Tone	RU38	5.72	≤11.00	9.26	≤10.00	PASS
			106 Tone	RU53	6.02	≤11.00	9.56	≤10.00	PASS
	Ant0	5240	26 Tone	RU8	2.68	≤11.00	1.80	≤10.00	PASS
			52 Tone	RU40	2.13	≤11.00	1.25	≤10.00	PASS
			106 Tone	RU54	2.02	≤11.00	1.14	≤10.00	PASS
	Ant1	5240	26 Tone	RU8	3.63	≤11.00	4.16	≤10.00	PASS
			52 Tone	RU40	3.82	≤11.00	4.35	≤10.00	PASS
			106 Tone	RU54	3.40	≤11.00	3.93	≤10.00	PASS
	total	5240	26 Tone	RU8	6.19	≤11.00	9.73	≤10.00	PASS
			52 Tone	RU40	6.07	≤11.00	9.61	≤10.00	PASS
			106 Tone	RU54	5.77	≤11.00	9.31	≤10.00	PASS
	Ant0	5260	26 Tone	RU0	7.33	≤11.00	6.45	---	PASS
			52 Tone	RU37	7.17	≤11.00	6.29	---	PASS
			106 Tone	RU53	7.35	≤11.00	6.47	---	PASS
	Ant1	5260	26 Tone	RU0	7.66	≤11.00	8.19	---	PASS
			52 Tone	RU37	6.96	≤11.00	7.49	---	PASS
			106 Tone	RU53	7.09	≤11.00	7.62	---	PASS
	total	5260	26 Tone	RU0	10.51	≤11.00	14.05	---	PASS
			52 Tone	RU37	10.08	≤11.00	13.62	---	PASS
			106 Tone	RU53	10.23	≤11.00	13.77	---	PASS
	Ant0	5280	26 Tone	RU4	7.29	≤11.00	6.41	---	PASS
			52 Tone	RU38	7.59	≤11.00	6.71	---	PASS
			106 Tone	RU53	7.42	≤11.00	6.54	---	PASS
	Ant1	5280	26 Tone	RU4	6.98	≤11.00	7.51	---	PASS
			52 Tone	RU38	7.39	≤11.00	7.92	---	PASS
			106 Tone	RU53	7.46	≤11.00	7.99	---	PASS

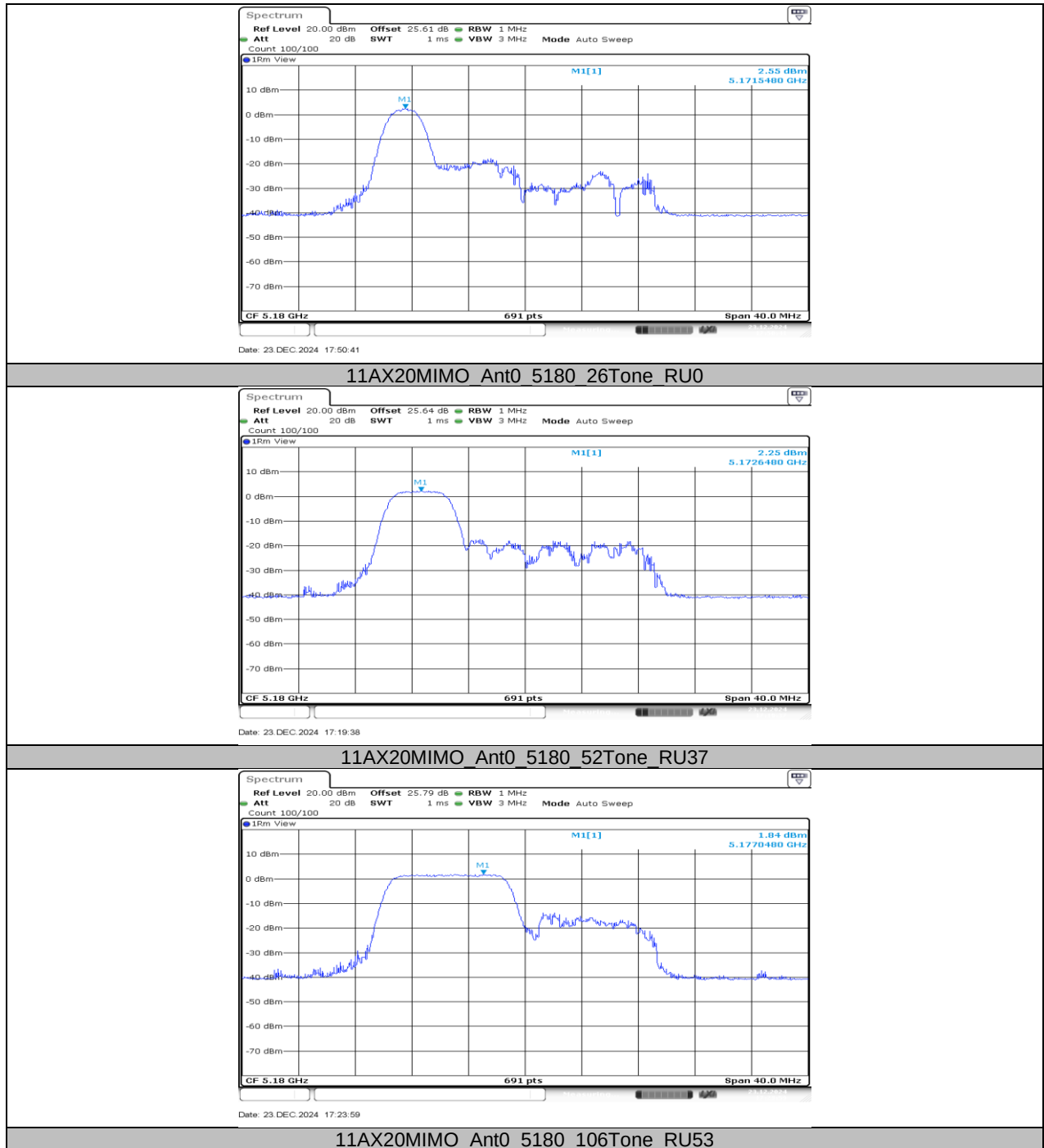
	total	5280	26 Tone	RU4	10.15	≤11.00	13.69	---	PASS
			52 Tone	RU38	10.50	≤11.00	14.04	---	PASS
			106 Tone	RU53	10.45	≤11.00	13.99	---	PASS
	Ant0	5320	26 Tone	RU8	7.09	≤11.00	6.21	---	PASS
			52 Tone	RU40	7.25	≤11.00	6.37	---	PASS
			106 Tone	RU54	6.95	≤11.00	6.07	---	PASS
	Ant1	5320	26 Tone	RU8	8.37	≤11.00	8.90	---	PASS
			52 Tone	RU40	8.07	≤11.00	8.60	---	PASS
			106 Tone	RU54	8.13	≤11.00	8.66	---	PASS
	total	5320	26 Tone	RU8	10.79	≤11.00	14.33	---	PASS
			52 Tone	RU40	10.69	≤11.00	14.23	---	PASS
			106 Tone	RU54	10.59	≤11.00	14.13	---	PASS
	Ant0	5500	26 Tone	RU0	7.78	≤11.00	8.20	---	PASS
			52 Tone	RU37	7.39	≤11.00	7.81	---	PASS
			106 Tone	RU53	7.35	≤11.00	7.77	---	PASS
	Ant1	5500	26 Tone	RU0	6.72	≤11.00	7.89	---	PASS
			52 Tone	RU37	7.27	≤11.00	8.44	---	PASS
			106 Tone	RU53	7.57	≤11.00	8.74	---	PASS
	total	5500	26 Tone	RU0	10.29	≤11.00	14.47	---	PASS
			52 Tone	RU37	10.34	≤11.00	14.52	---	PASS
			106 Tone	RU53	10.47	≤11.00	14.65	---	PASS
	Ant0	5580	26 Tone	RU4	7.75	≤11.00	8.17	---	PASS
			52 Tone	RU38	7.83	≤11.00	8.25	---	PASS
			106 Tone	RU53	7.64	≤11.00	8.06	---	PASS
	Ant1	5580	26 Tone	RU4	6.84	≤11.00	8.01	---	PASS
			52 Tone	RU38	6.83	≤11.00	8.00	---	PASS
			106 Tone	RU53	6.92	≤11.00	8.09	---	PASS
	total	5580	26 Tone	RU4	10.33	≤11.00	14.51	---	PASS
			52 Tone	RU38	10.37	≤11.00	14.55	---	PASS
			106 Tone	RU53	10.31	≤11.00	14.49	---	PASS
	Ant0	5700	26 Tone	RU8	5.59	≤11.00	6.01	---	PASS
			52 Tone	RU40	6.14	≤11.00	6.56	---	PASS
			106 Tone	RU54	5.57	≤11.00	5.99	---	PASS
	Ant1	5700	26 Tone	RU8	6.10	≤11.00	7.27	---	PASS
			52 Tone	RU40	6.13	≤11.00	7.30	---	PASS
			106 Tone	RU54	6.73	≤11.00	7.90	---	PASS
	total	5700	26 Tone	RU8	8.86	≤11.00	13.04	---	PASS
			52 Tone	RU40	9.15	≤11.00	13.33	---	PASS
			106 Tone	RU54	9.20	≤11.00	13.38	---	PASS
	Ant0	5745	26 Tone	RU0	3.74	≤30.00	4.06	---	PASS
			52 Tone	RU37	-0.83	≤30.00	-0.51	---	PASS
			106 Tone	RU53	-2.38	≤30.00	-2.06	---	PASS
	Ant1	5745	26 Tone	RU0	4.51	≤30.00	4.77	---	PASS
			52 Tone	RU37	-0.26	≤30.00	0.00	---	PASS
			106 Tone	RU53	-1.93	≤30.00	-1.67	---	PASS
	total	5745	26 Tone	RU0	7.15	≤30.00	10.48	---	PASS

			52 Tone	RU37	2.47	≤ 30.00	5.80	---	PASS
			106 Tone	RU53	0.86	≤ 30.00	4.19	---	PASS
			26 Tone	RU4	3.15	≤ 30.00	3.47	---	PASS
	Ant0	5785	52 Tone	RU38	-1.28	≤ 30.00	-0.96	---	PASS
			106 Tone	RU53	-2.91	≤ 30.00	-2.59	---	PASS
			26 Tone	RU4	4.13	≤ 30.00	4.39	---	PASS
	Ant1	5785	52 Tone	RU38	-0.34	≤ 30.00	-0.08	---	PASS
			106 Tone	RU53	-2.11	≤ 30.00	-1.85	---	PASS
			26 Tone	RU4	6.68	≤ 30.00	10.01	---	PASS
	total	5785	52 Tone	RU38	2.23	≤ 30.00	5.56	---	PASS
			106 Tone	RU53	0.52	≤ 30.00	3.85	---	PASS
			26 Tone	RU8	0.46	≤ 30.00	0.78	---	PASS
	Ant0	5825	52 Tone	RU40	-2.22	≤ 30.00	-1.90	---	PASS
			106 Tone	RU54	-4.14	≤ 30.00	-3.82	---	PASS
			26 Tone	RU8	1.31	≤ 30.00	1.57	---	PASS
	Ant1	5825	52 Tone	RU40	-0.68	≤ 30.00	-0.42	---	PASS
			106 Tone	RU54	-2.87	≤ 30.00	-2.61	---	PASS
			26 Tone	RU8	3.92	≤ 30.00	7.25	---	PASS
	total	5825	52 Tone	RU40	1.63	≤ 30.00	4.96	---	PASS
			106 Tone	RU54	-0.45	≤ 30.00	2.88	---	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

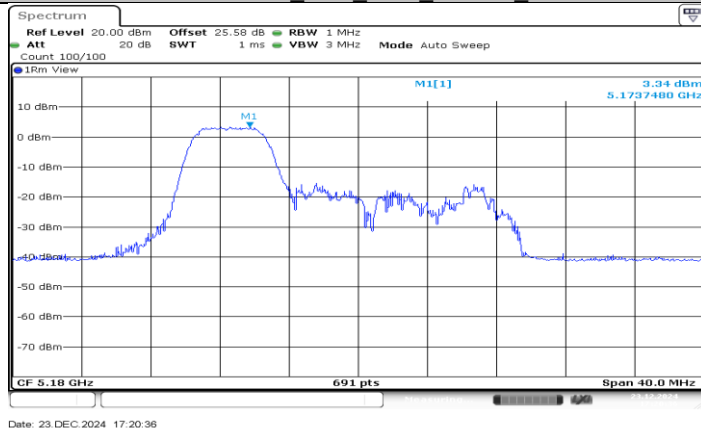
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.4. Test Graphs-Partial RU

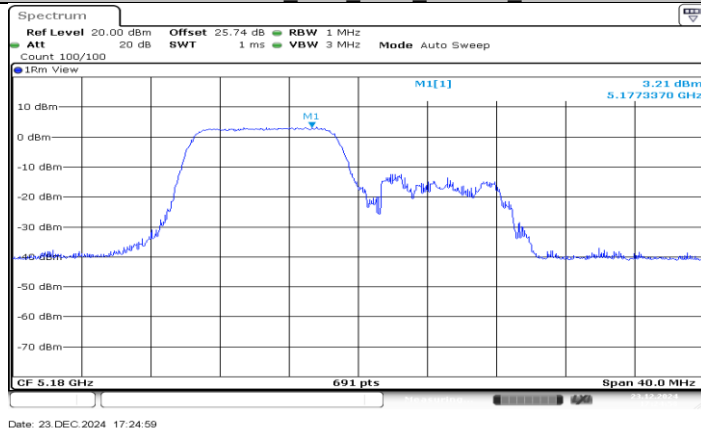




11AX20MIMO_Ant1_5180_26Tone_RU0



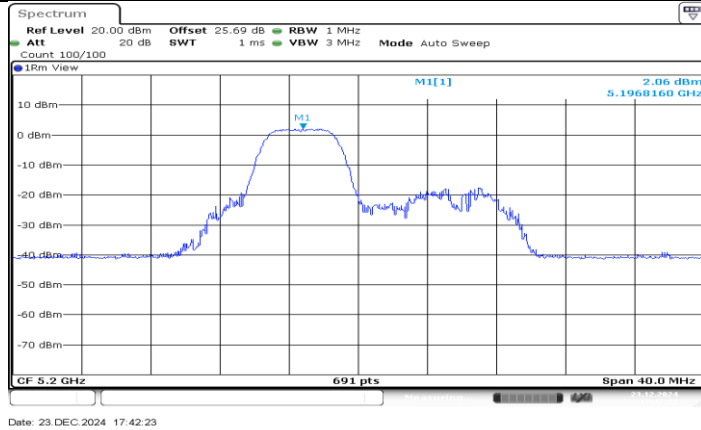
11AX20MIMO_Ant1_5180_52Tone_RU37



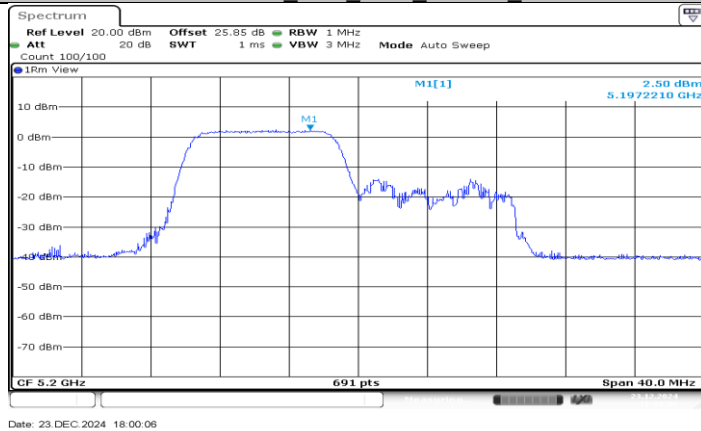
11AX20MIMO_Ant1_5180_106Tone_RU53



11AX20MIMO_Ant0_5200_26Tone_RU4



11AX20MIMO_Ant0_5200_52Tone_RU38



11AX20MIMO_Ant0_5200_106Tone_RU53



11AX20MIMO_Ant1_5200_26Tone_RU4



11AX20MIMO_Ant1_5200_52Tone_RU38



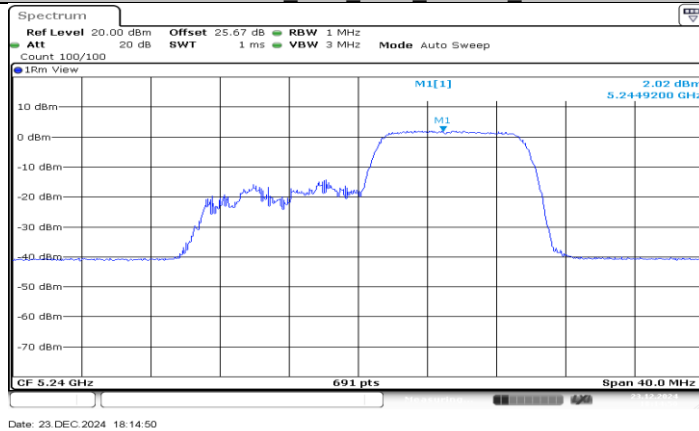
11AX20MIMO_Ant1_5200_106Tone_RU53



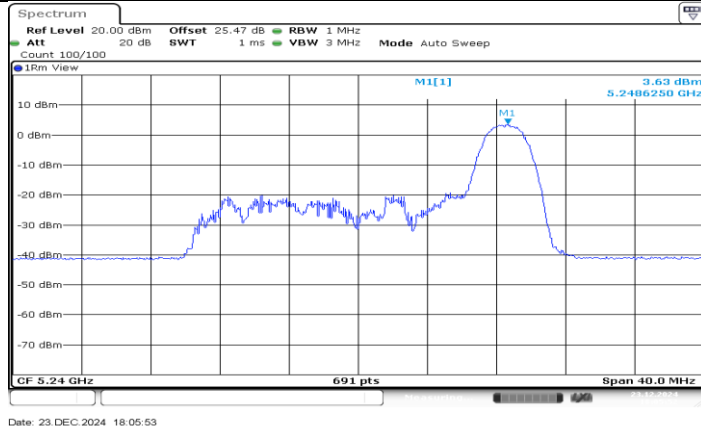
11AX20MIMO_Ant0_5240_26Tone_RU8



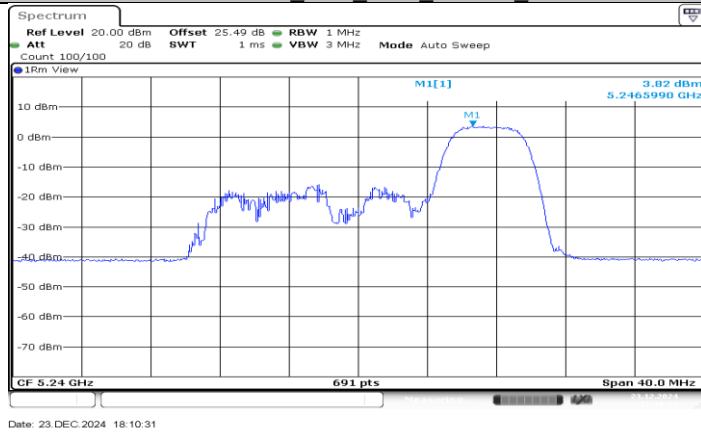
11AX20MIMO_Ant0_5240_52Tone_RU40



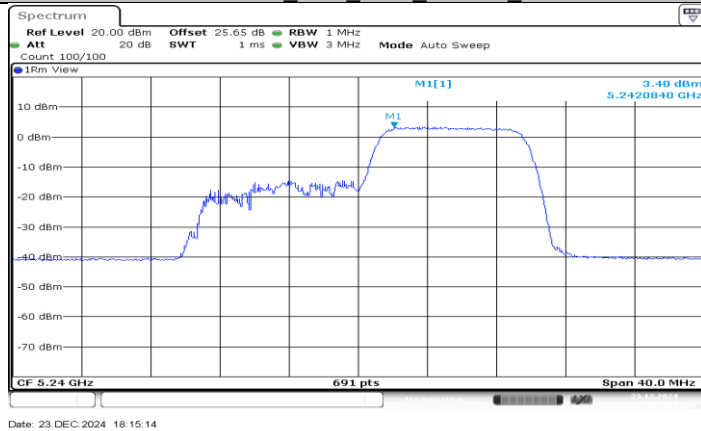
11AX20MIMO_Ant0_5240_106Tone_RU54



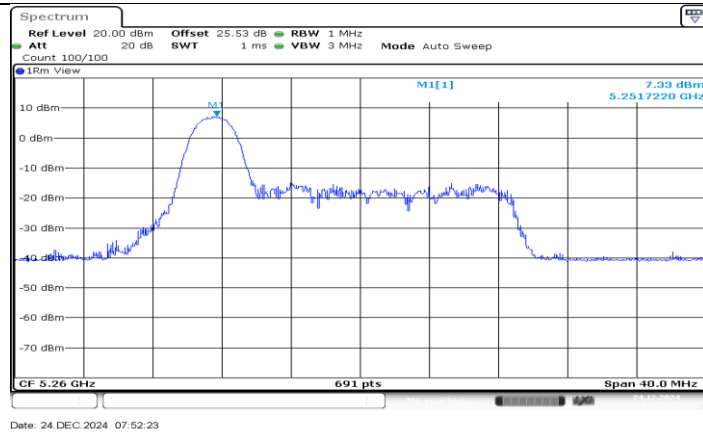
11AX20MIMO_Ant1_5240_26Tone_RU8



11AX20MIMO_Ant1_5240_52Tone_RU40



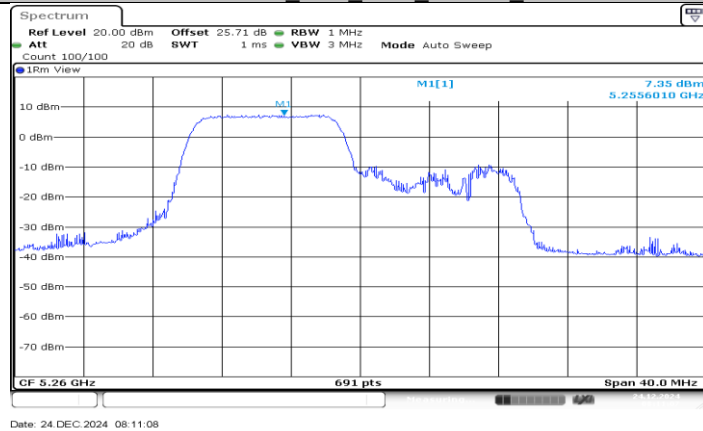
11AX20MIMO_Ant1_5240_106Tone_RU54



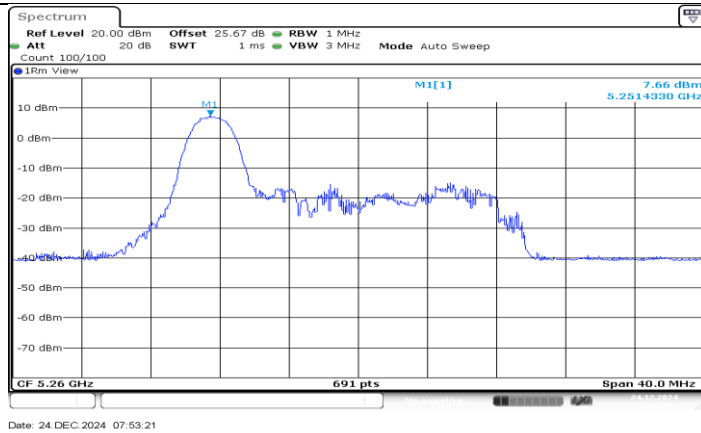
11AX20MIMO_Ant0_5260_26Tone_RU0



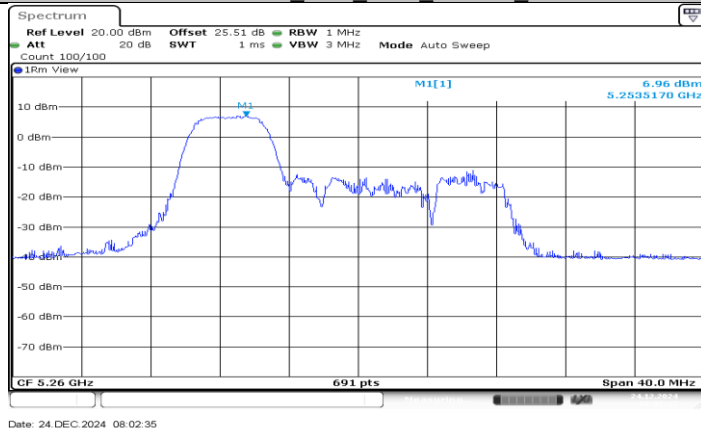
11AX20MIMO_Ant0_5260_52Tone_RU37



11AX20MIMO_Ant0_5260_106Tone_RU53



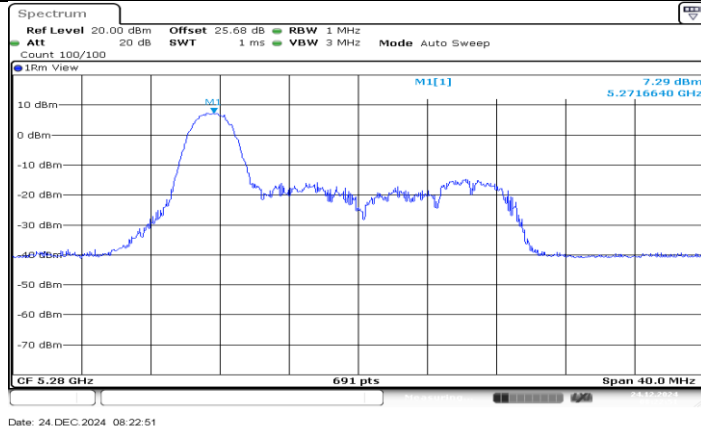
11AX20MIMO_Ant1_5260_26Tone_RU0



11AX20MIMO_Ant1_5260_52Tone_RU37



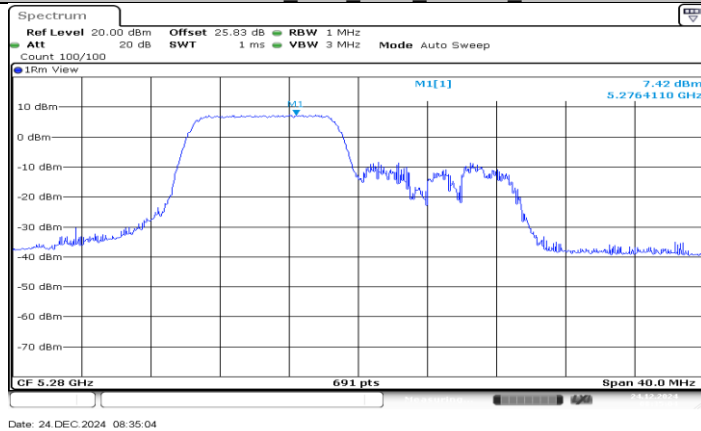
11AX20MIMO_Ant1_5260_106Tone_RU53



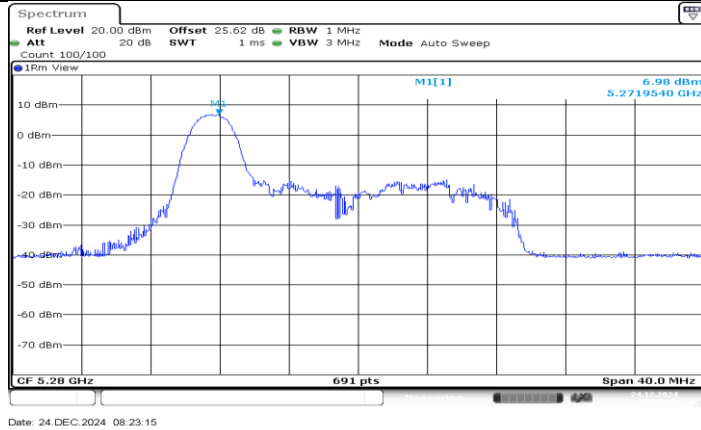
11AX20MIMO_Ant0_5280_26Tone_RU4



11AX20MIMO_Ant0_5280_52Tone_RU38



11AX20MIMO_Ant0_5280_106Tone_RU53



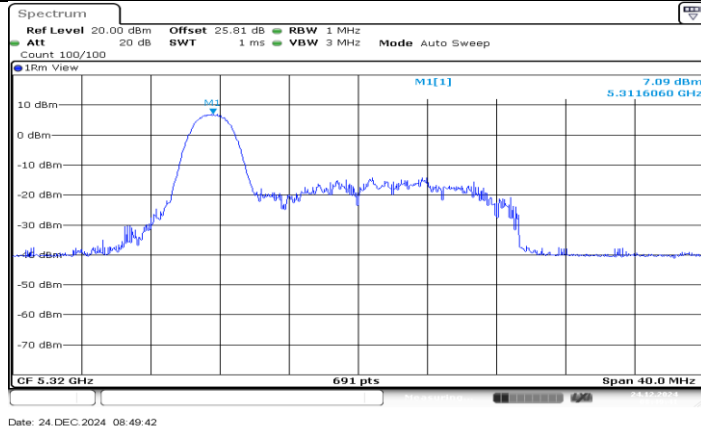
11AX20MIMO_Ant1_5280_26Tone_RU4



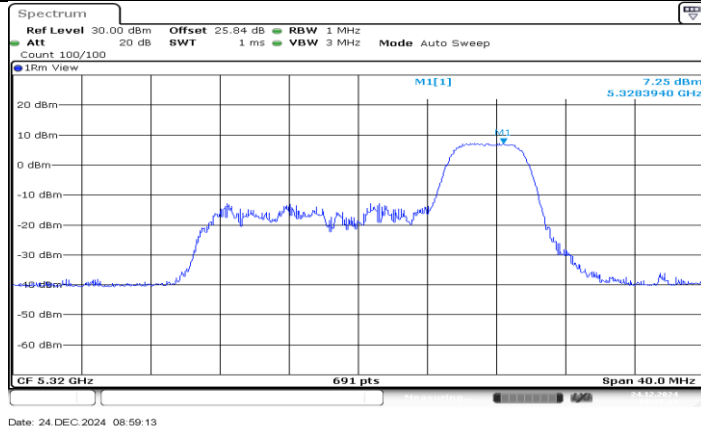
11AX20MIMO_Ant1_5280_52Tone_RU38



11AX20MIMO_Ant1_5280_106Tone_RU53



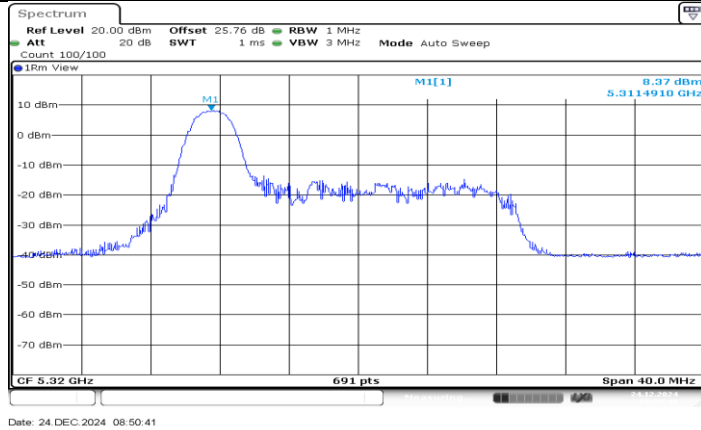
11AX20MIMO_Ant0_5320_26Tone_RU8



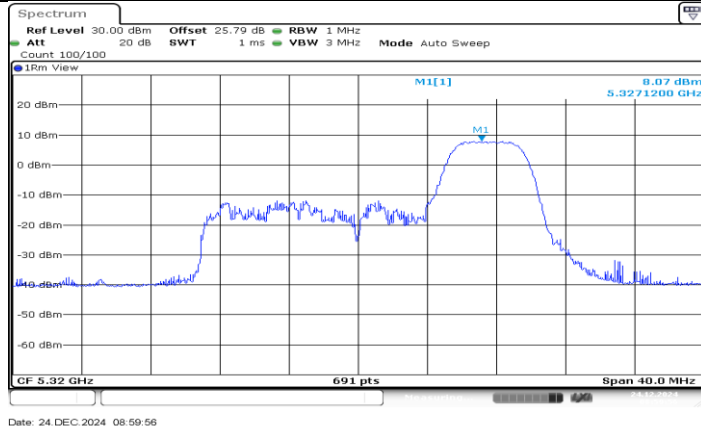
11AX20MIMO_Ant0_5320_52Tone_RU40



11AX20MIMO_Ant0_5320_106Tone_RU54



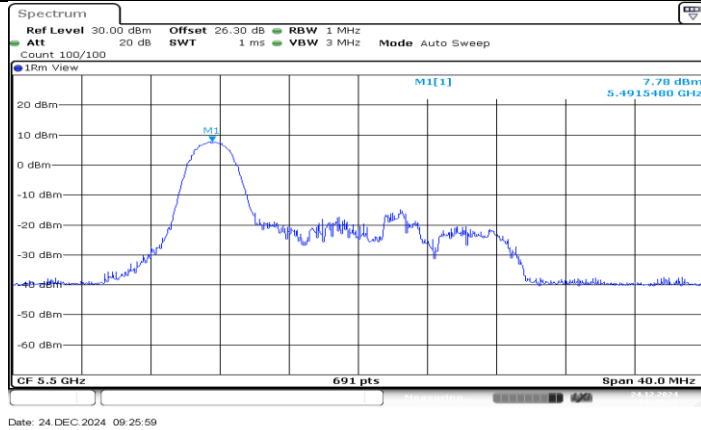
11AX20MIMO_Ant1_5320_26Tone_RU8



11AX20MIMO_Ant1_5320_52Tone_RU40



11AX20MIMO_Ant1_5320_106Tone_RU54



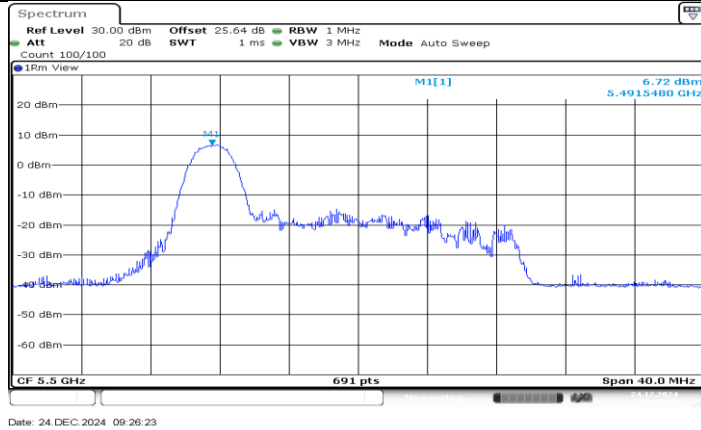
11AX20MIMO_Ant0_5500_26Tone_RU0



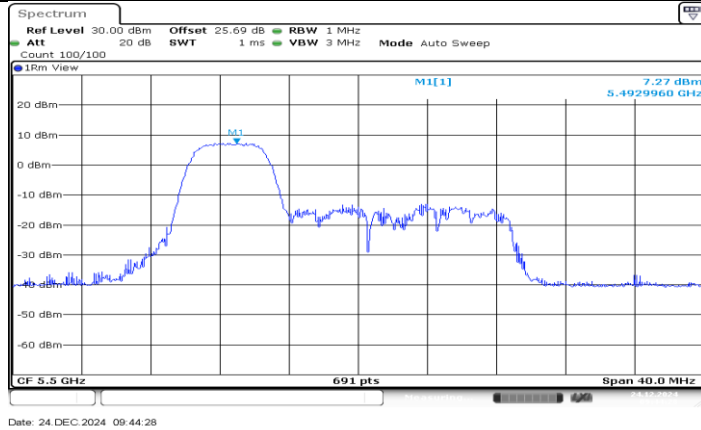
11AX20MIMO_Ant0_5500_52Tone_RU37



11AX20MIMO_Ant0_5500_106Tone_RU53



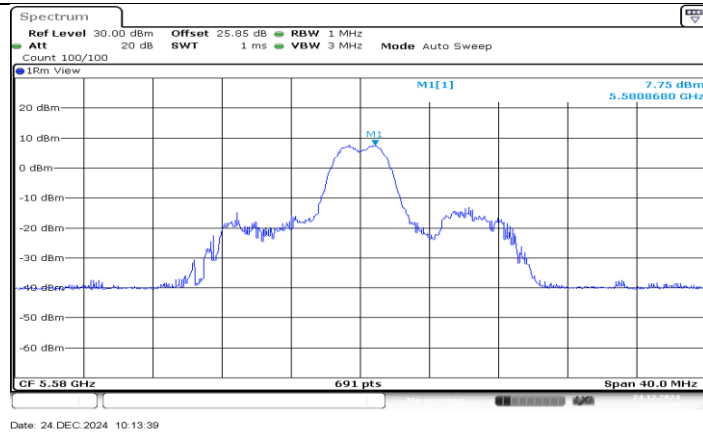
11AX20MIMO_Ant1_5500_26Tone_RU0



11AX20MIMO_Ant1_5500_52Tone_RU37



11AX20MIMO_Ant1_5500_106Tone_RU53



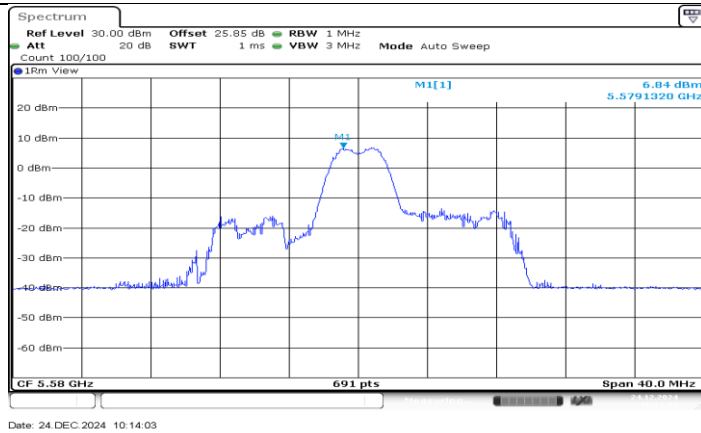
11AX20MIMO_Ant0_5580_26Tone_RU4



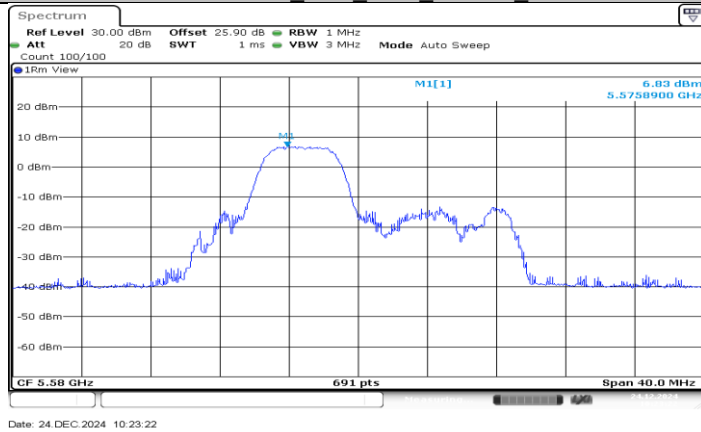
11AX20MIMO_Ant0_5580_52Tone_RU38



11AX20MIMO_Ant0_5580_106Tone_RU53



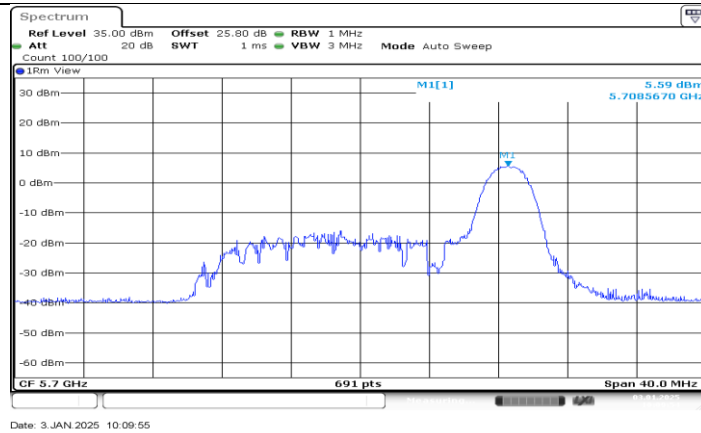
11AX20MIMO_Ant1_5580_26Tone_RU4



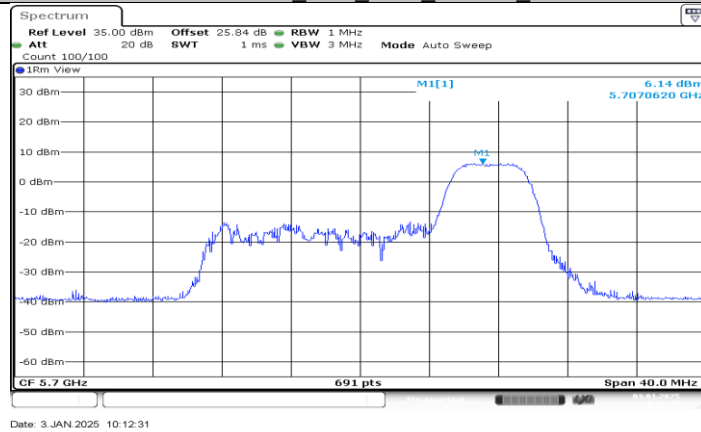
11AX20MIMO_Ant1_5580_52Tone_RU38



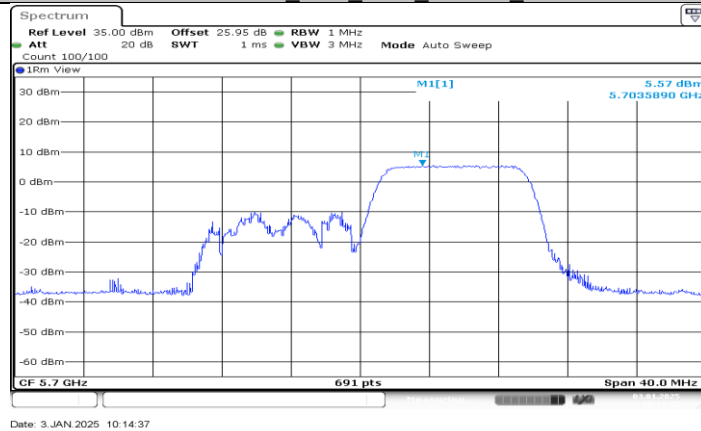
11AX20MIMO_Ant1_5580_106Tone_RU53



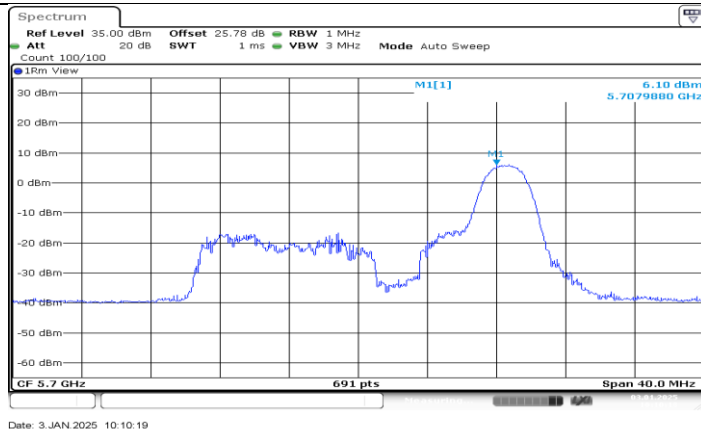
11AX20MIMO_Ant0_5700_26Tone_RU8



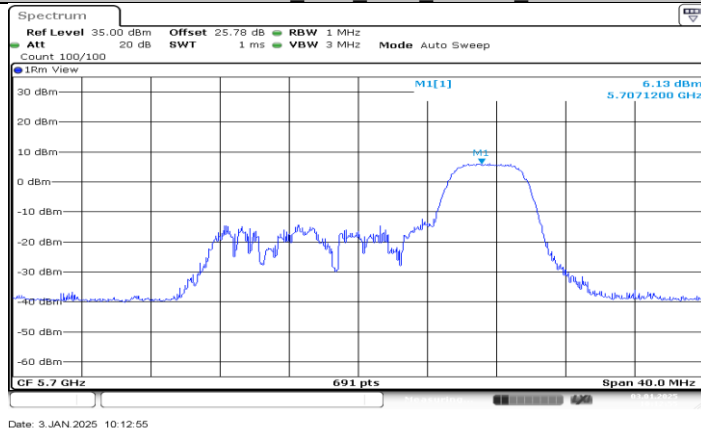
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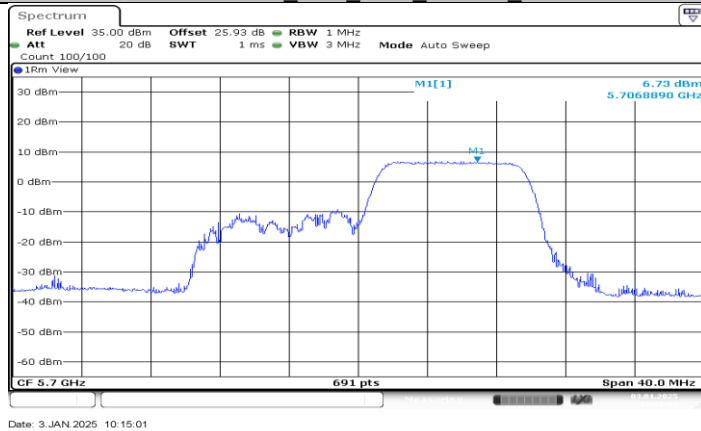
11AX20MIMO_Ant0_5700_106Tone_RU54



11AX20MIMO_Ant1_5700_26Tone_RU8



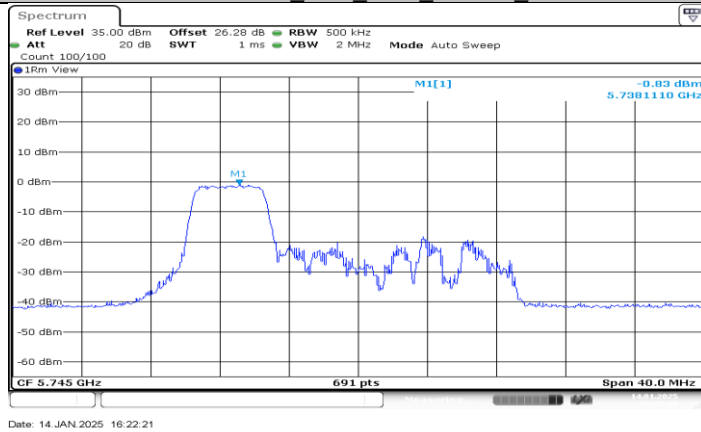
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11AX20MIMO_Ant1_5700_106Tone_RU54



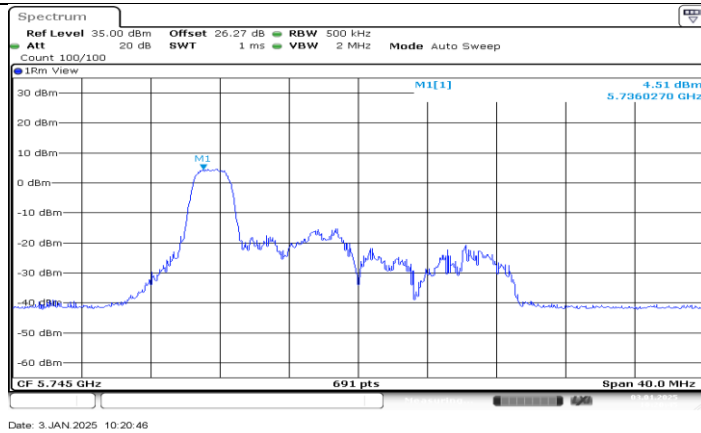
11AX20MIMO_Ant0_5745_26Tone_RU0



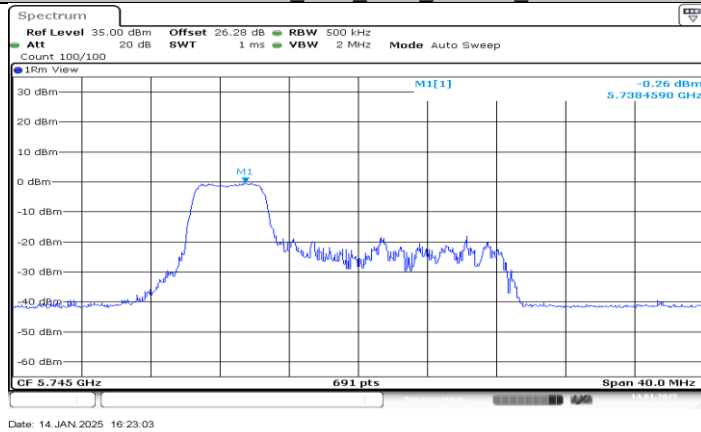
11AX20MIMO_Ant0_5745_52Tone_RU37



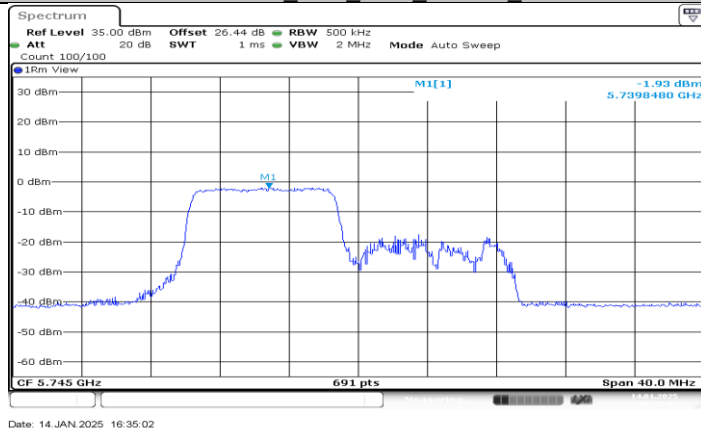
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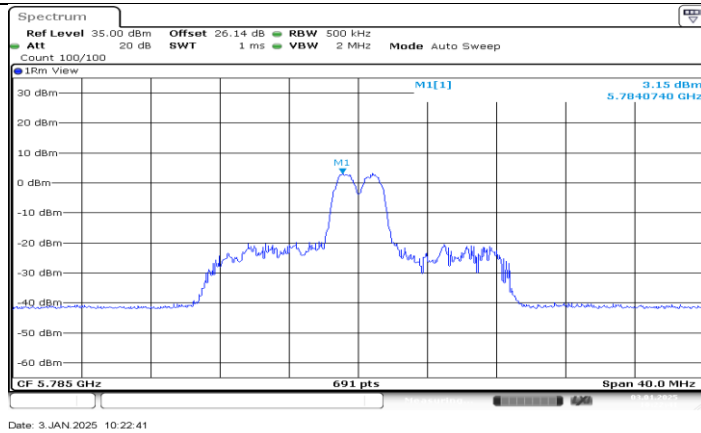
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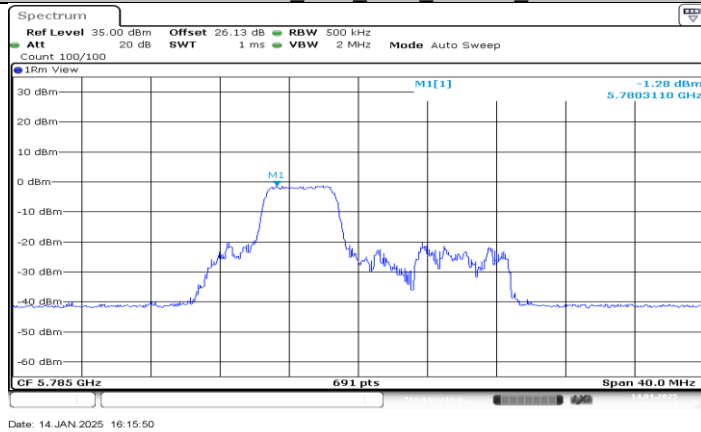
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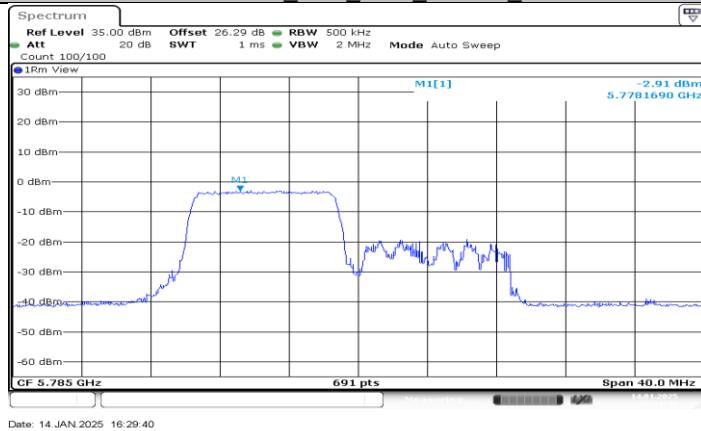
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11AX20MIMO_Ant0_5785_26Tone_RU4



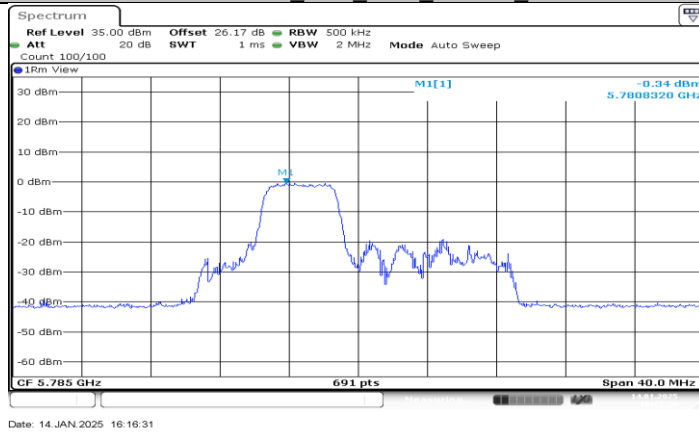
11AX20MIMO_Ant0_5785_52Tone_RU38



11AX20MIMO_Ant0_5785_106Tone_RU53



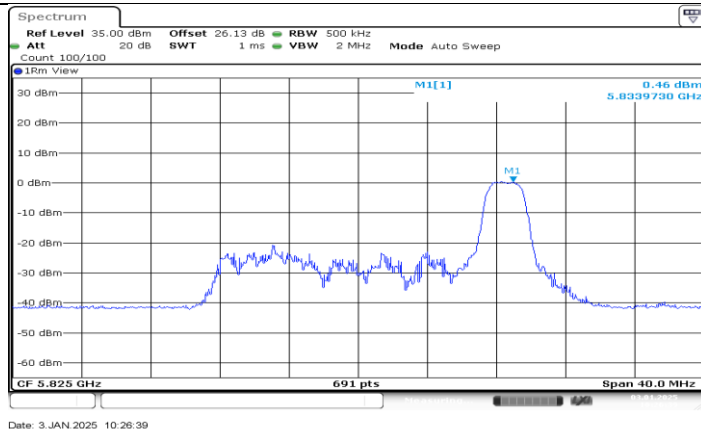
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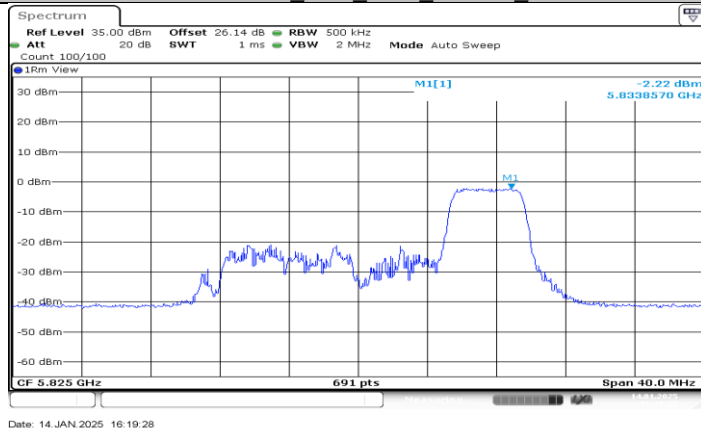
11AX20MIMO_Ant1_5785_52Tone_RU38



11AX20MIMO_Ant1_5785_106Tone_RU53



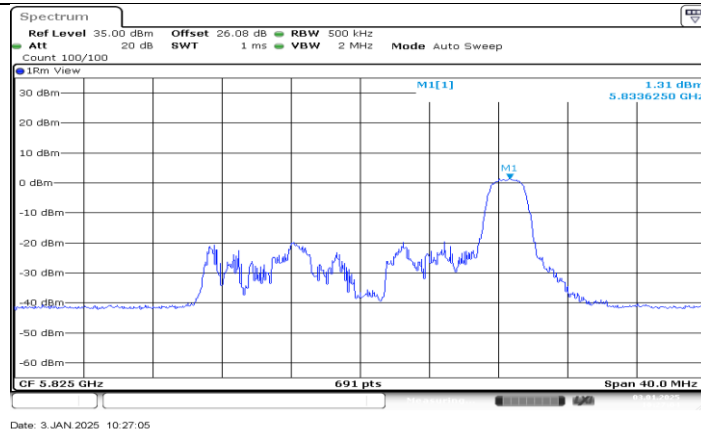
11AX20MIMO_Ant0_5825_26Tone_RU8



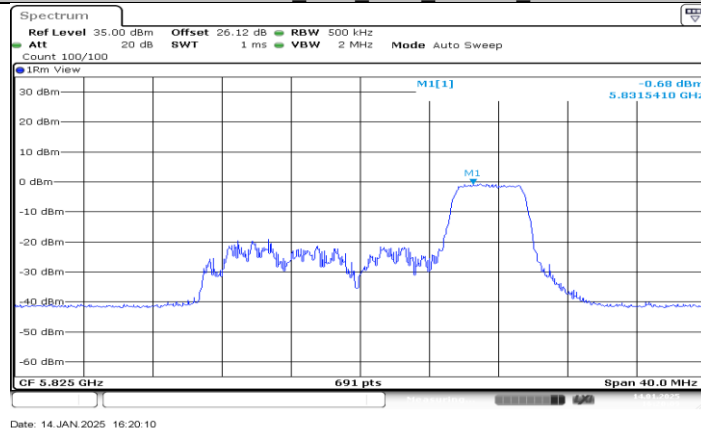
11AX20MIMO_Ant0_5825_52Tone_RU40



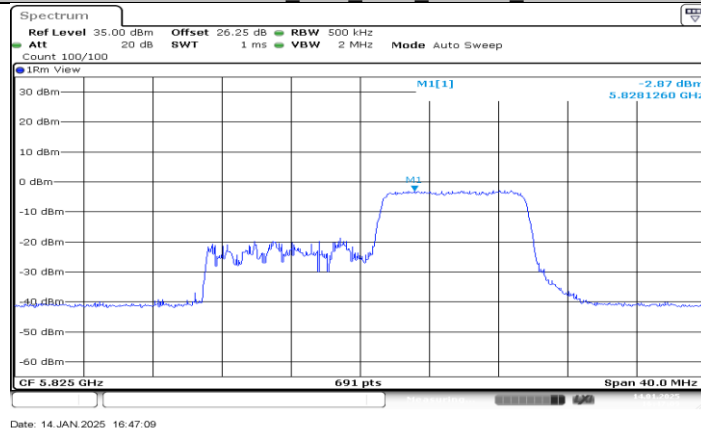
11AX20MIMO_Ant0_5825_106Tone_RU54



11AX20MIMO_Ant1_5825_26Tone_RU8



11AX20MIMO_Ant1_5825_52Tone_RU40



11AX20MIMO_Ant1_5825_106Tone_RU54

11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. Test Result-Single RU Worst Case

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5199.9789	-4.07	5200.0036	0.70	5200.0015	0.29	5200.0122	2.35
TN	VN	5199.9869	-2.51	5200.0192	3.68	5199.9778	-4.26	5200.0165	3.18
TN	VH	5200.0014	0.26	5200.0235	4.52	5199.9949	-0.98	5200.0046	0.89
Frequency Error vs. Temperature									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
50	VN	5200.0140	2.68	5200.0199	3.83	5200.0212	4.08	5199.9972	-0.53
40	VN	5199.9943	-1.10	5199.9958	-0.80	5199.9943	-1.10	5200.0047	0.91
30	VN	5200.0002	0.04	5199.9792	-4.00	5200.0136	2.62	5200.0229	4.41
20	VN	5200.0233	4.48	5200.0135	2.60	5200.0070	1.34	5199.9793	-3.98
10	VN	5199.9884	-2.23	5199.9950	-0.96	5200.0231	4.43	5199.9880	-2.30
0	VN	5199.9813	-3.59	5200.0180	3.46	5199.9905	-1.82	5200.0034	0.65
-10	VN	5199.9750	-4.81	5199.9877	-2.36	5199.9876	-2.38	5199.9816	-3.53

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

11.7. APPENDIX G: DUTY CYCLE**11.7.1. Test Result-Single RU**

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.39	1.83	0.7596	75.96	1.19	0.72	1
11N20MIMO	1.30	1.74	0.7471	74.71	1.27	0.77	1
11N40MIMO	0.65	1.10	0.5909	59.09	2.28	1.54	2
11AC80MIMO	0.32	0.77	0.4156	41.56	3.81	3.13	4
11AX20MIMO	1.02	1.47	0.6939	69.39	1.59	0.98	1
11AX40MIMO	0.55	0.99	0.5556	55.56	2.55	1.82	2
11AX80MIMO	0.29	0.73	0.3973	39.73	4.01	3.45	4

Note:

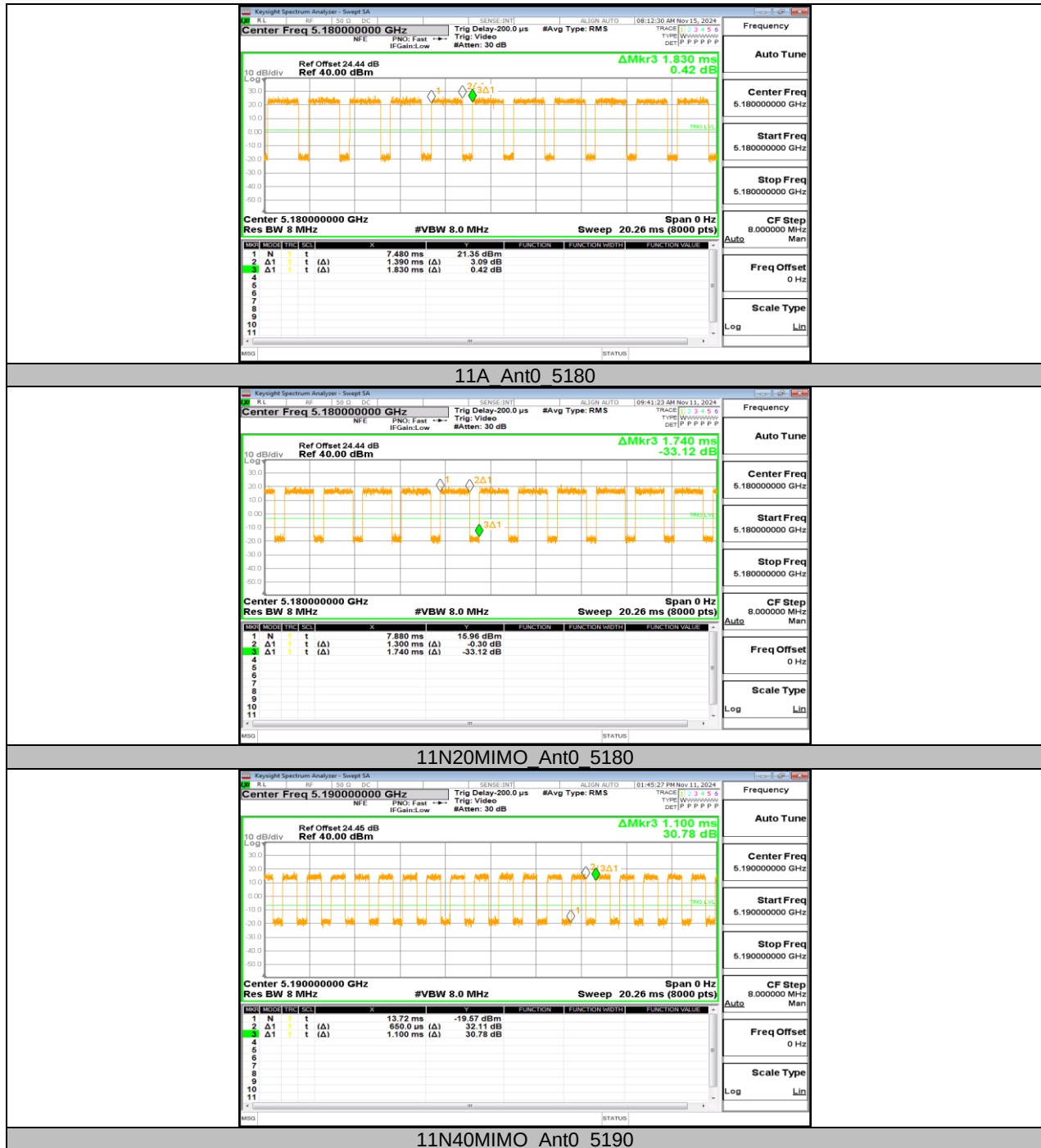
Duty Cycle Correction Factor= $10\log(1/x)$.

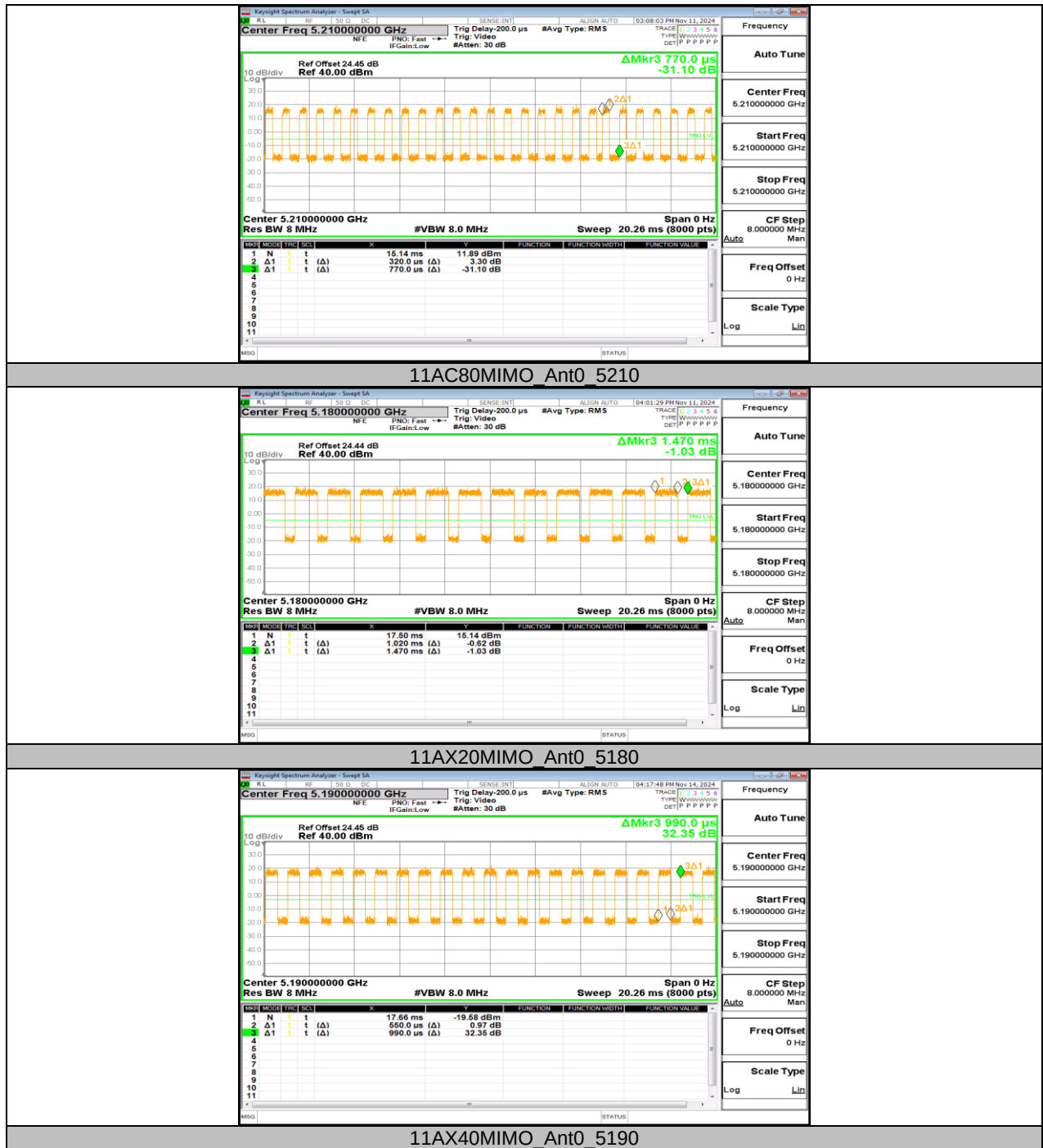
Where: x is Duty Cycle (Linear)

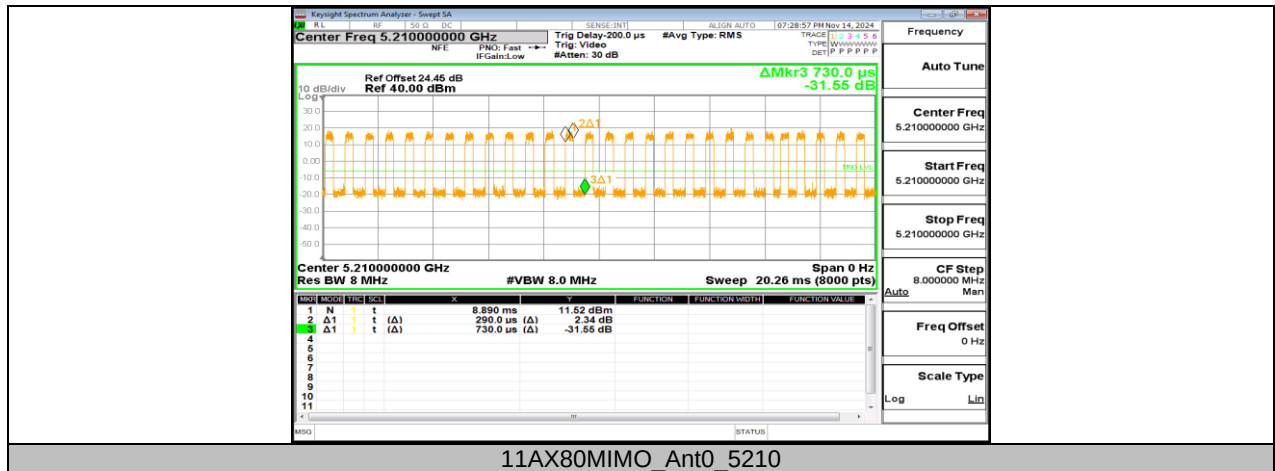
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs-Single RU







11.7.3. Test Result-Partial RU

Test Mode	Ru Size	Ru Index	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11AX20MIMO	26Tone	RU0	1.60	2.01	0.7960	79.60	0.99	0.63	1
	52Tone	RU37	1.51	1.91	0.7906	79.06	1.02	0.66	1
	106Tone	RU53	1.39	1.82	0.7637	76.37	1.17	0.72	1
	26Tone	RU4	1.60	2.01	0.7960	79.60	0.99	0.63	1
	52Tone	RU38	1.52	1.92	0.7917	79.17	1.01	0.66	1
	26Tone	RU8	1.60	2.00	0.8000	80.00	0.97	0.63	1
	52Tone	RU40	1.51	1.92	0.7865	78.65	1.04	0.66	1
	106Tone	RU54	1.39	1.82	0.7637	76.37	1.17	0.72	1

Note:

Duty Cycle Correction Factor=10log (1/x).

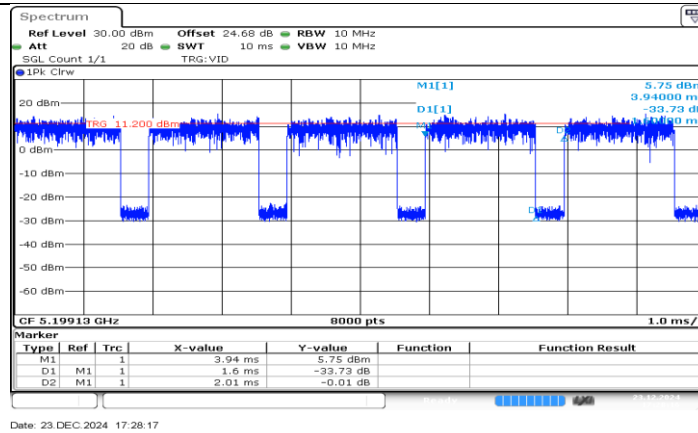
Where: x is Duty Cycle (Linear)

Where: T is On Time

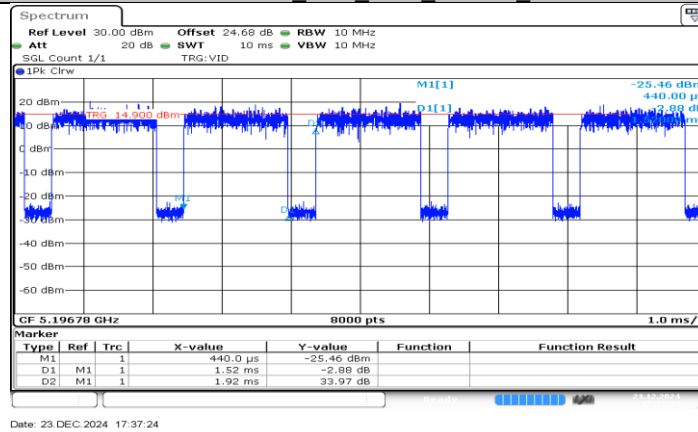
If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.4. Test Graphs-Partial RU

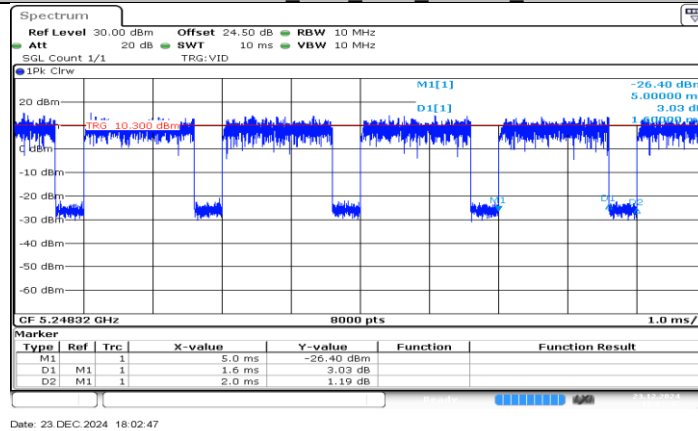




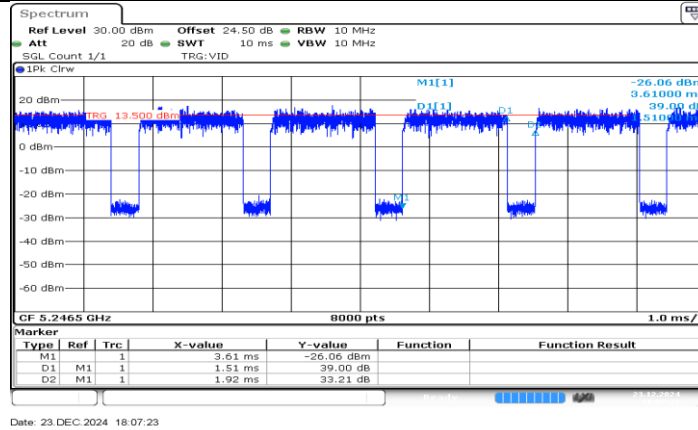
11AX20MIMO_Ant0_5200_26Tone_RU4



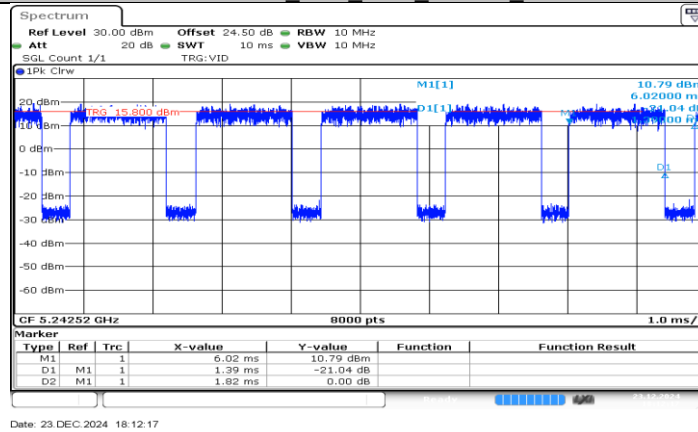
11AX20MIMO_Ant0_5200_52Tone_RU38



11AX20MIMO_Ant0_5240_26Tone_RU8



11AX20MIMO_Ant0_5240_52Tone_RU40

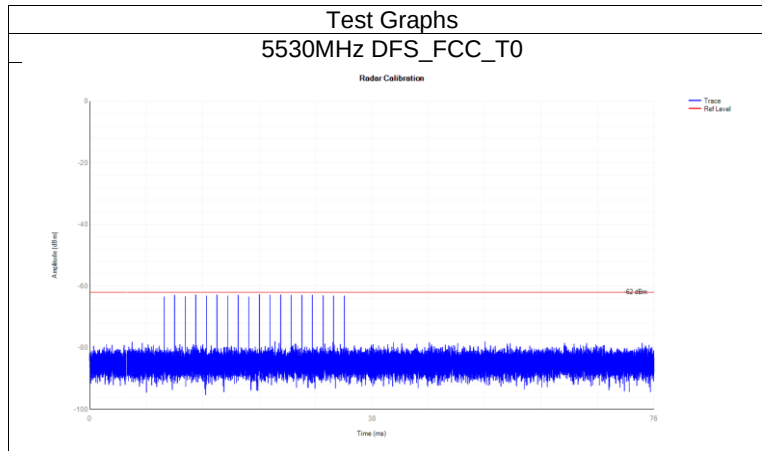


11AX20MIMO_Ant0_5240_106Tone_RU54

11.8. APPENDIX H: DYNAMIC FREQUENCY SELECTION-SINGLE RU WORST CASE

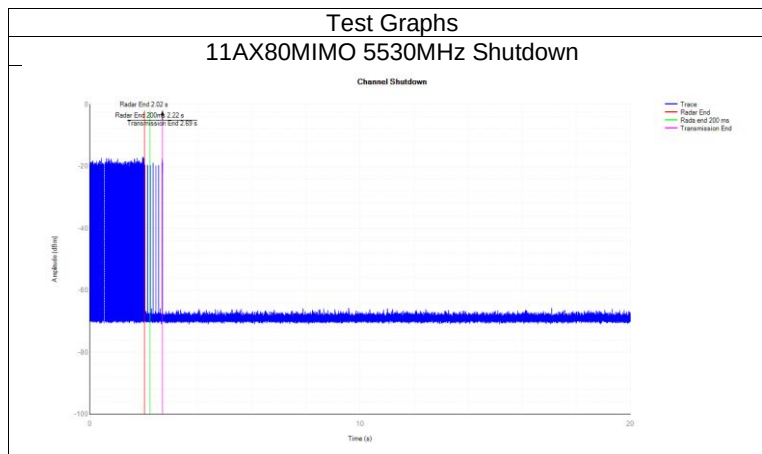
11.8.1. Calibration

Mode	Frequency (MHz)	Type	Result	Verdict
11AX80MIMO	5530	DFS_FCC_T0	See test Graph	Pass



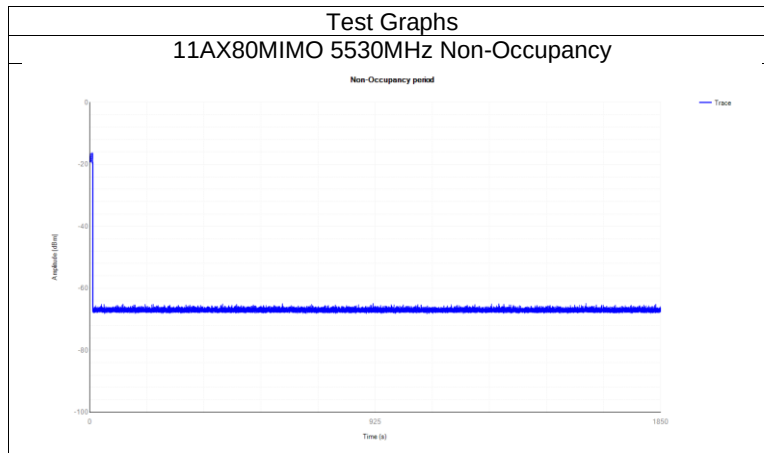
11.8.2. Shutdown Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
11AX80MIMO	5530	0.665	10	0.025	0.26	0.021	0.06	Pass



11.8.3. Non-Occupancy

Mode	Frequency (MHz)	Result	Verdict
11AX80MIMO	5530	See test Graph	Pass



END OF REPORT