

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	AI>Note
Test Model:	S6
Sample ID:	HC-C-202311-0266-02-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Zhou Zhen
Note: For a more detailed features description, please refer to the report TBR-C-202311-0266-33	

Contents

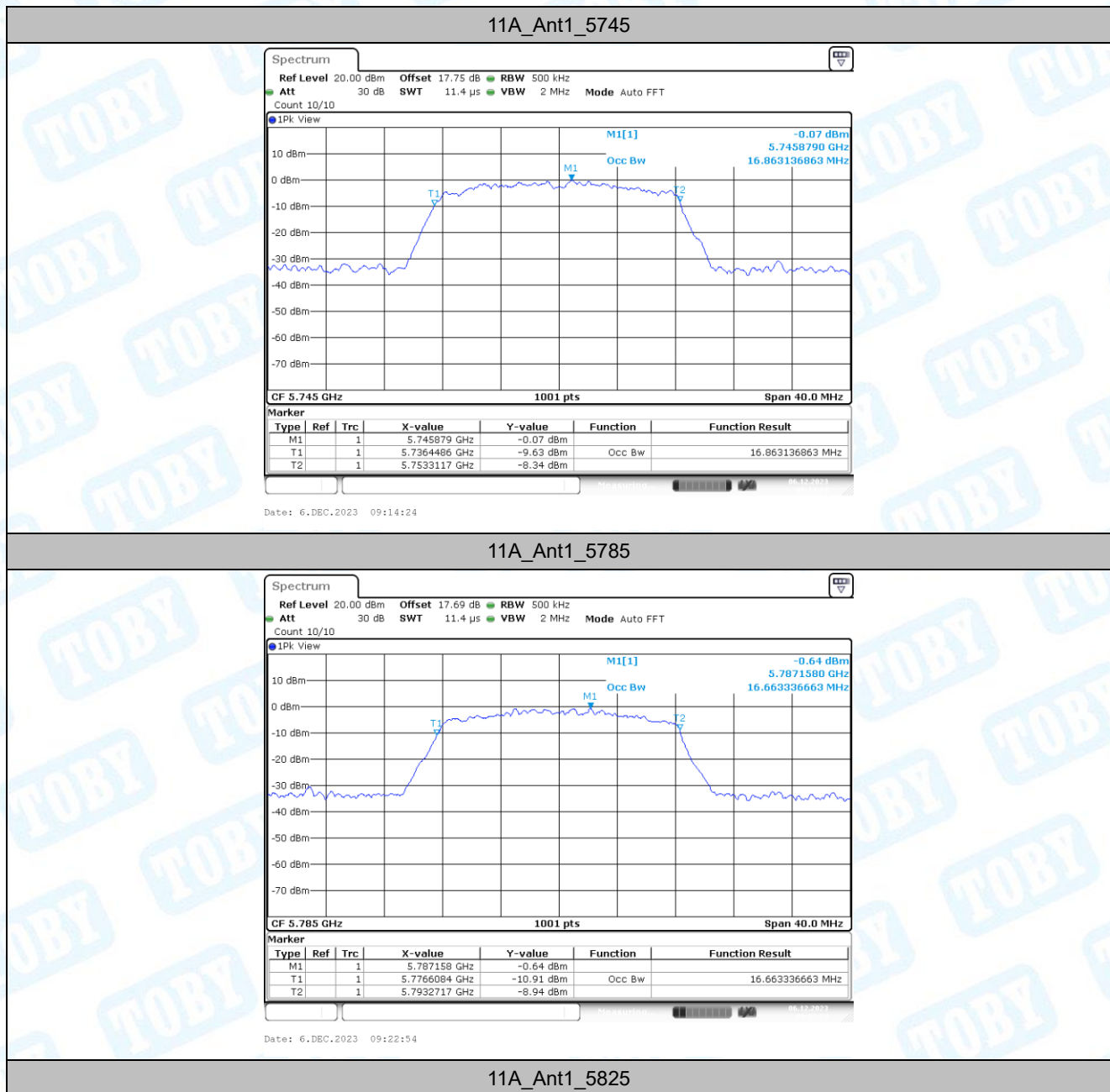
1. Occupied channel bandwidth	3
1.1. Test Result	3
2.2. Test Graphs	4
2. Min emission bandwidth	9
2.1. Test Result	9
2.2. Test Graphs	10
3. Maximum conducted output power	15
3.1. Test Result	15
4. Maximum power spectral density	16
4.1. Test Result	16
4.2. Test Graphs	17
5. Band edge measurements	22
5.1. Test Result	22
5.2. Test Graphs	23
6. Emissions in Restricted Bands	27
6.1. Test Result	27
6.2. Test Graphs	28
7. Conducted Spurious Emission	32
7.1. Test Result	32
7.2. Test Graphs	33
8. Frequency Stability	42
8.1. Test Result	42
9. Duty Cycle	46
9.1. Test Result	46
9.2. Test Graphs	47

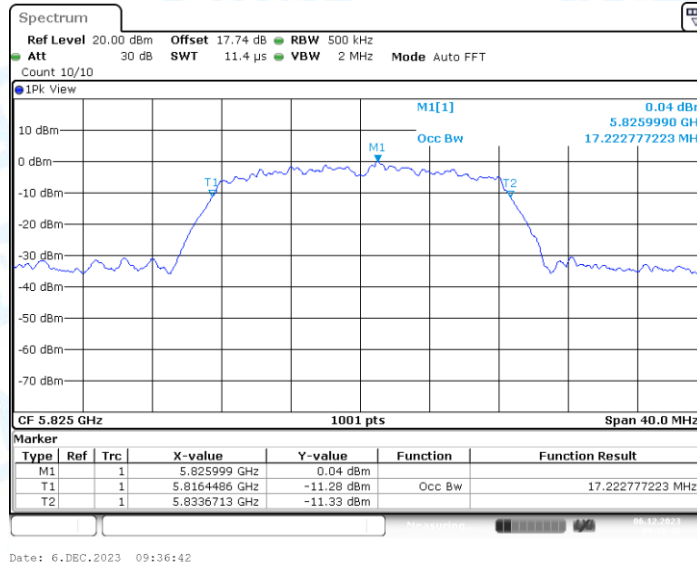
1. Occupied channel bandwidth

1.1. Test Result

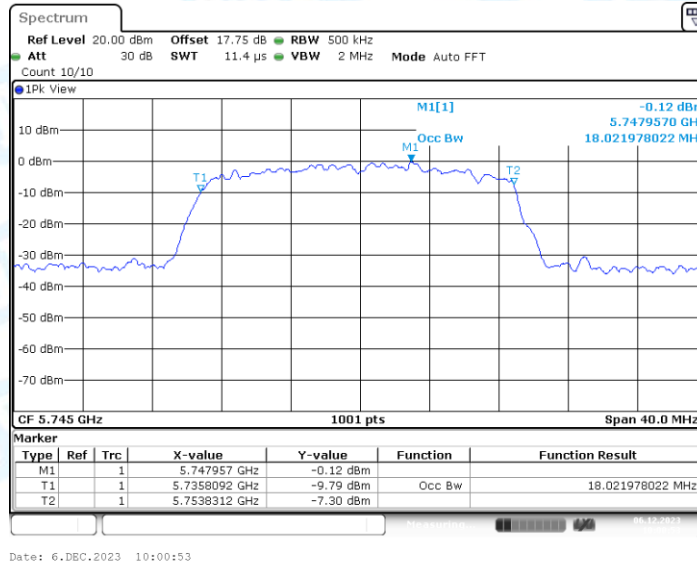
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.863	5736.4486	5753.3117	---	---
		5785	16.663	5776.6084	5793.2717	---	---
		5825	17.223	5816.4486	5833.6713	---	---
11N20SISO	Ant1	5745	18.022	5735.8092	5753.8312	---	---
		5785	18.102	5775.7293	5793.8312	---	---
		5825	17.782	5816.0889	5833.8711	---	---
11N40SISO	Ant1	5755	36.044	5736.9381	5772.9820	---	---
		5795	36.284	5776.8581	5813.1419	---	---
11AC20SISO	Ant1	5745	17.702	5736.1289	5753.8312	---	---
		5785	18.022	5775.8891	5793.9111	---	---
		5825	17.982	5816.0090	5833.9910	---	---
11AC40SISO	Ant1	5755	35.964	5737.0180	5772.9820	---	---
		5795	36.284	5776.7782	5813.0619	---	---

2.2. Test Graphs

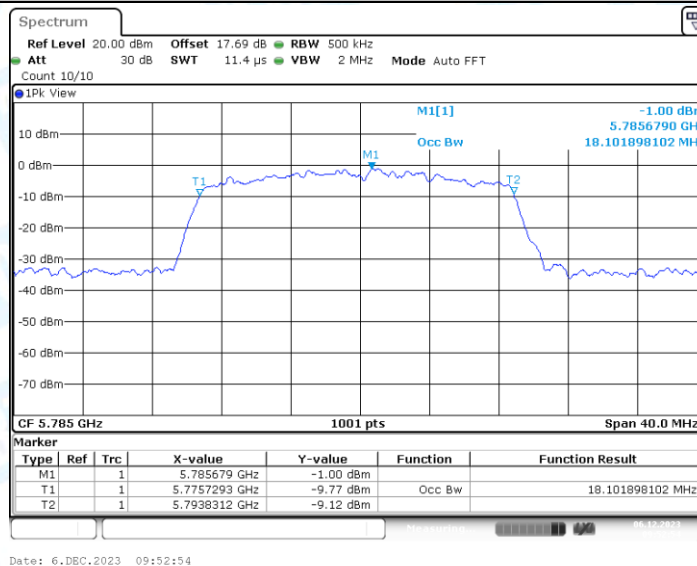




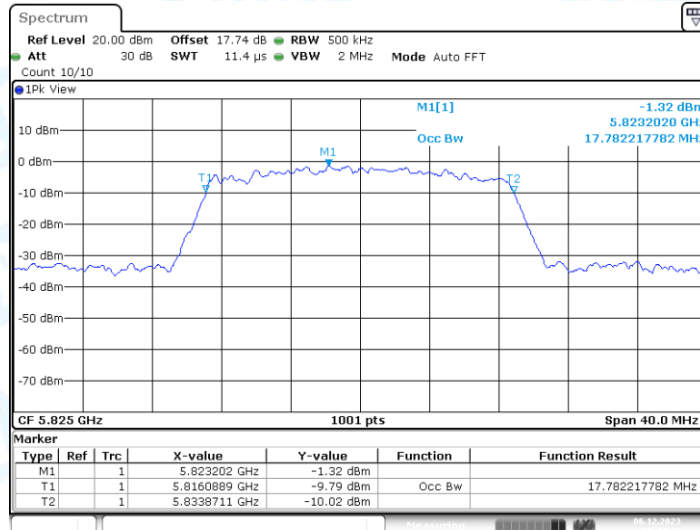
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

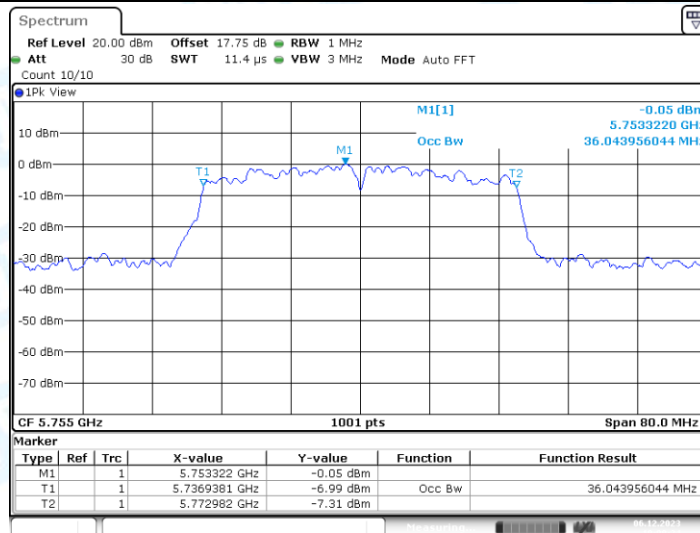


11N20SISO_Ant1_5825



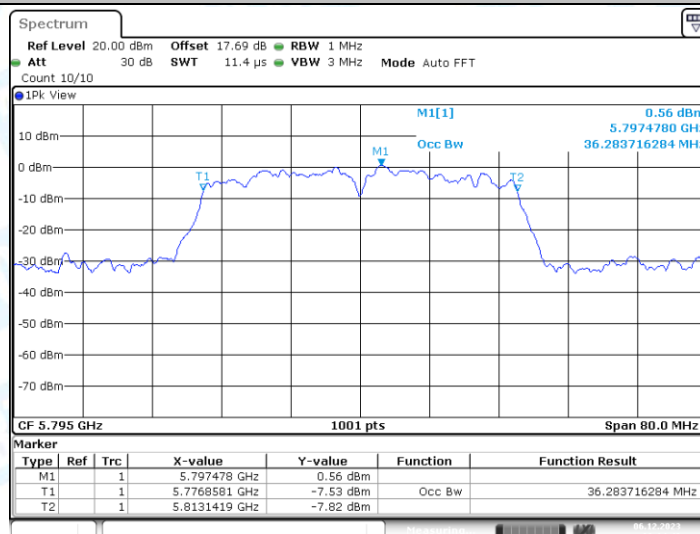
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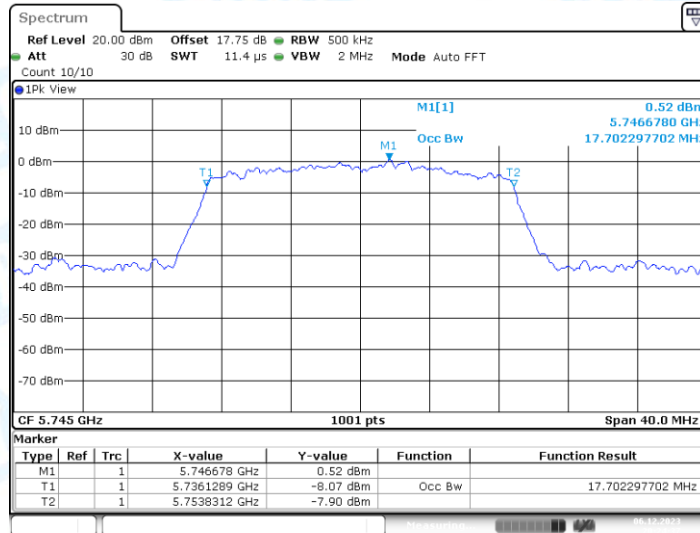
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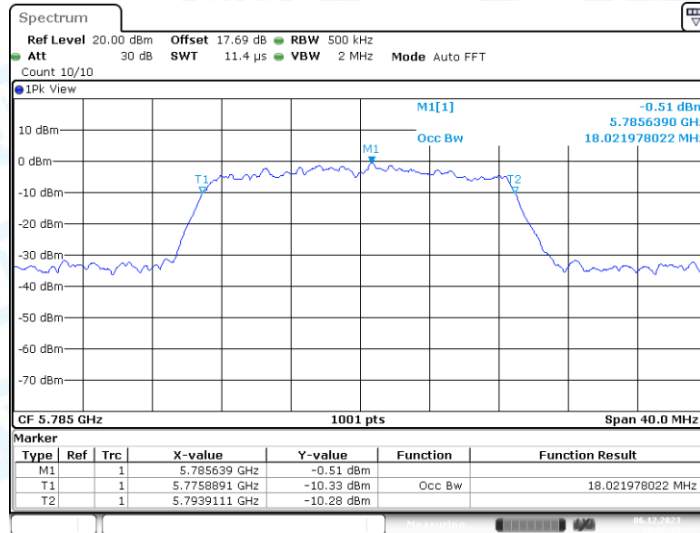
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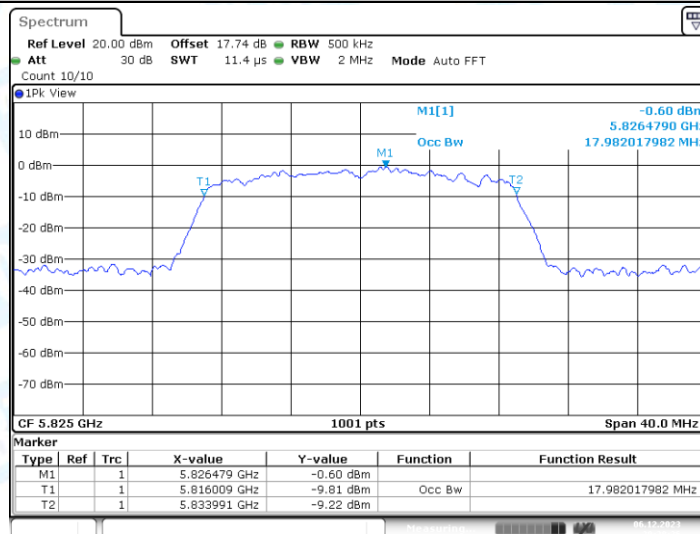
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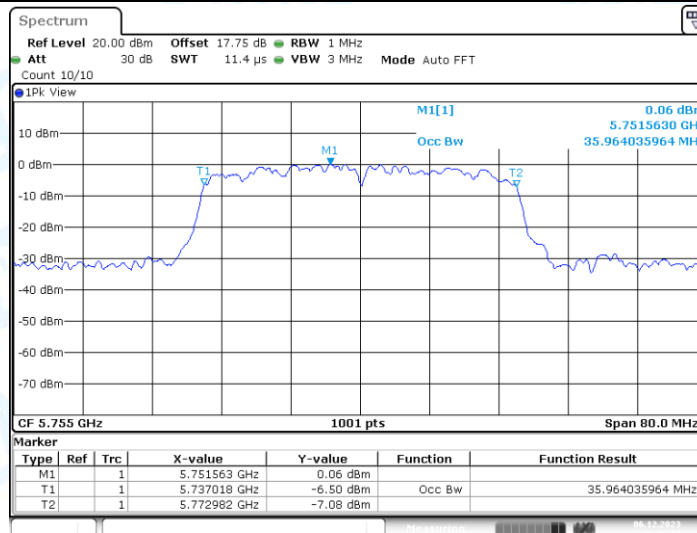
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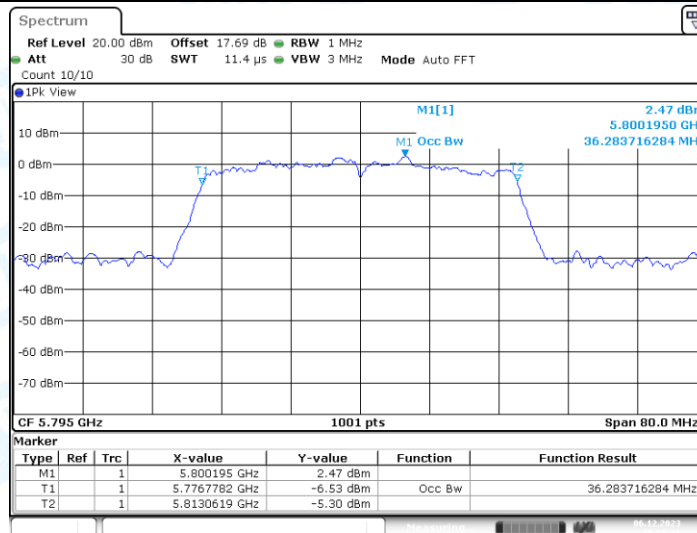
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11AC40SISO_Ant1_5755



Date: 6.DEC.2023 20:45:17

11AC40SISO_Ant1_5795



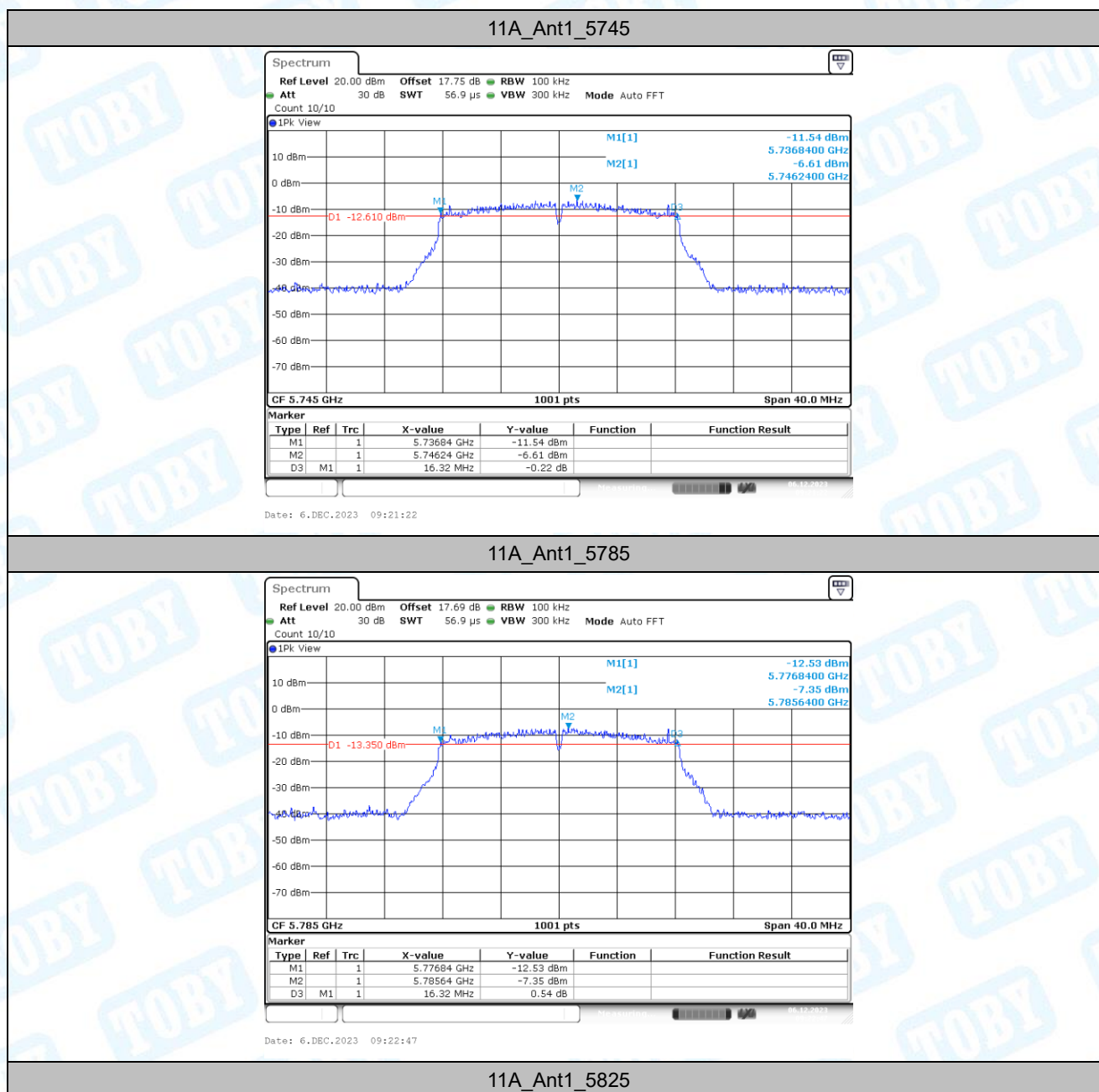
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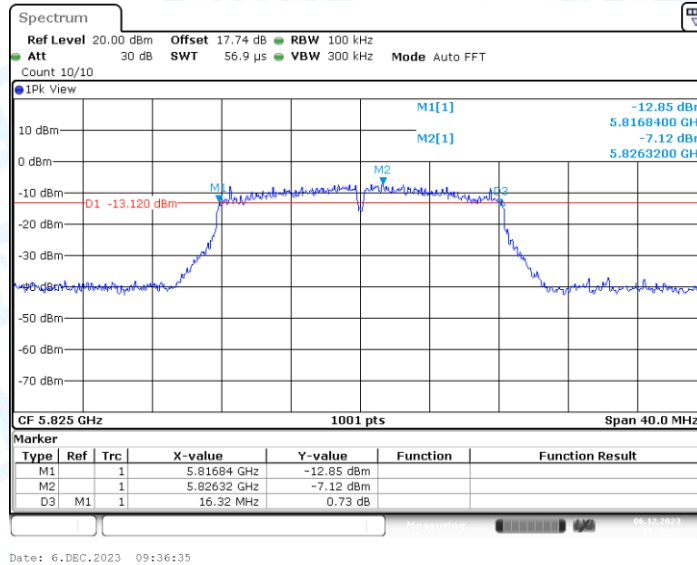
2. Min emission bandwidth

2.1. Test Result

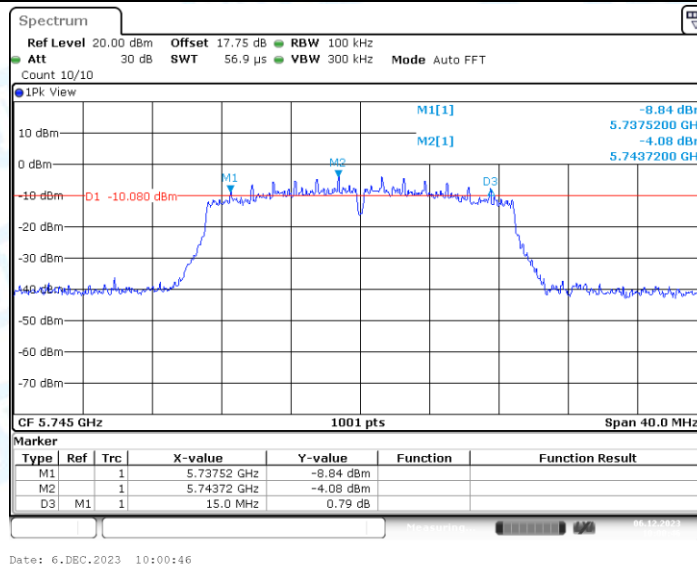
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.84	5753.16	0.5	PASS
		5785	16.32	5776.84	5793.16	0.5	PASS
		5825	16.32	5816.84	5833.16	0.5	PASS
11N20SISO	Ant1	5745	15.00	5737.52	5752.52	0.5	PASS
		5785	16.32	5776.84	5793.16	0.5	PASS
		5825	17.52	5816.24	5833.76	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	16.80	5736.60	5753.40	0.5	PASS
		5785	13.80	5778.68	5792.48	0.5	PASS
		5825	14.08	5818.68	5832.76	0.5	PASS
11AC40SISO	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS
		5795	35.04	5777.48	5812.52	0.5	PASS

2.2. Test Graphs

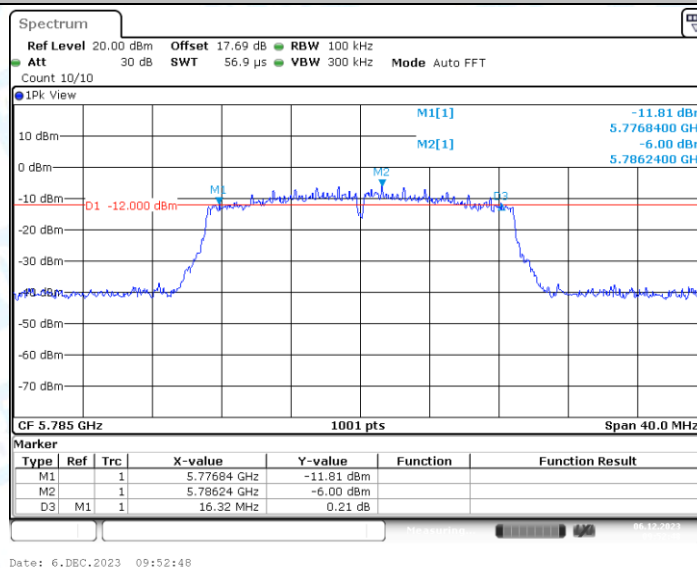




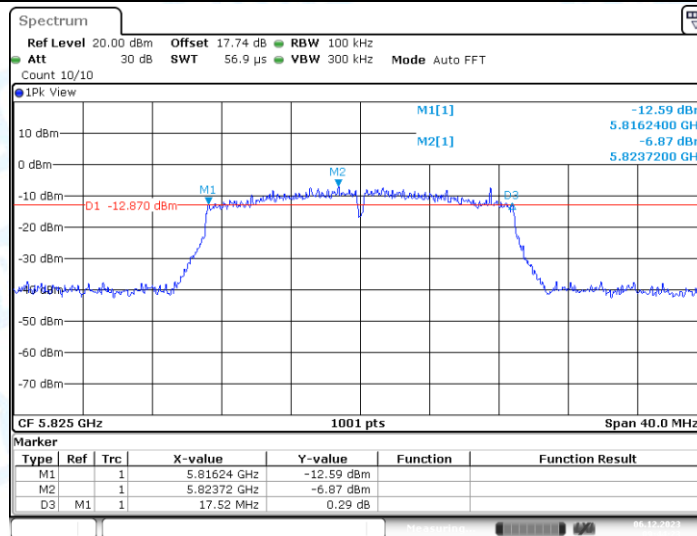
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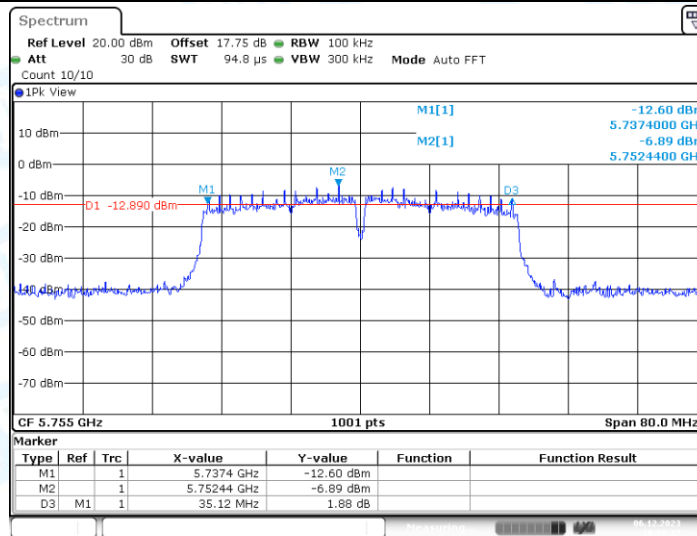
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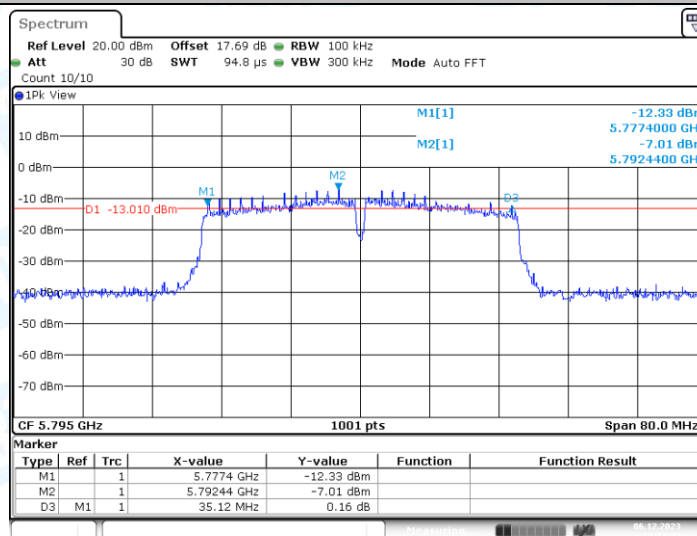
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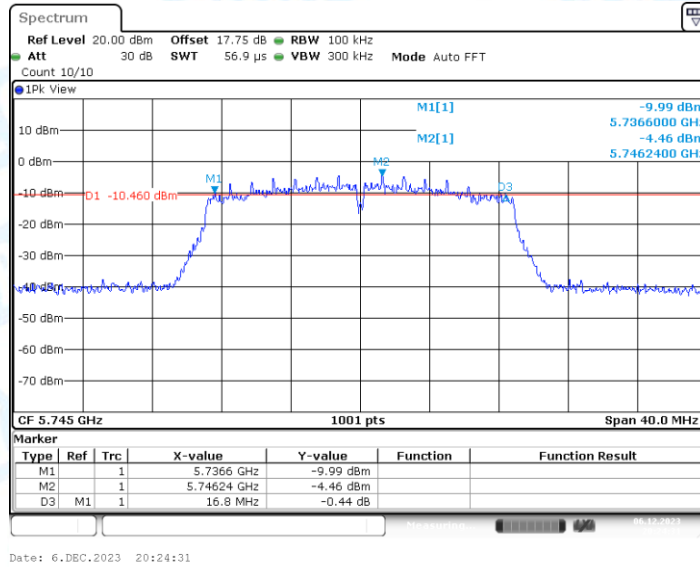
11N40SISO_Ant1_5755



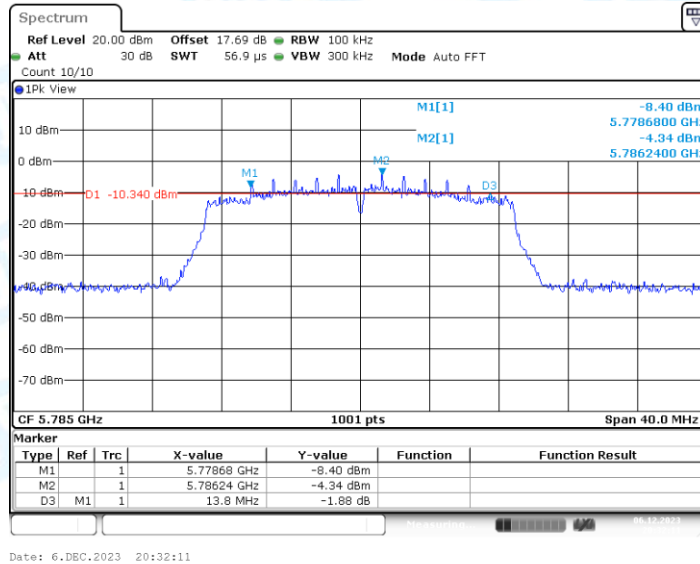
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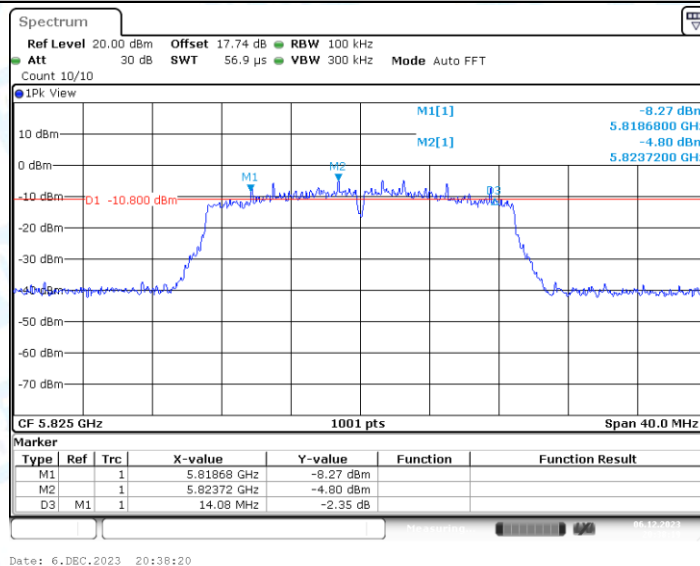
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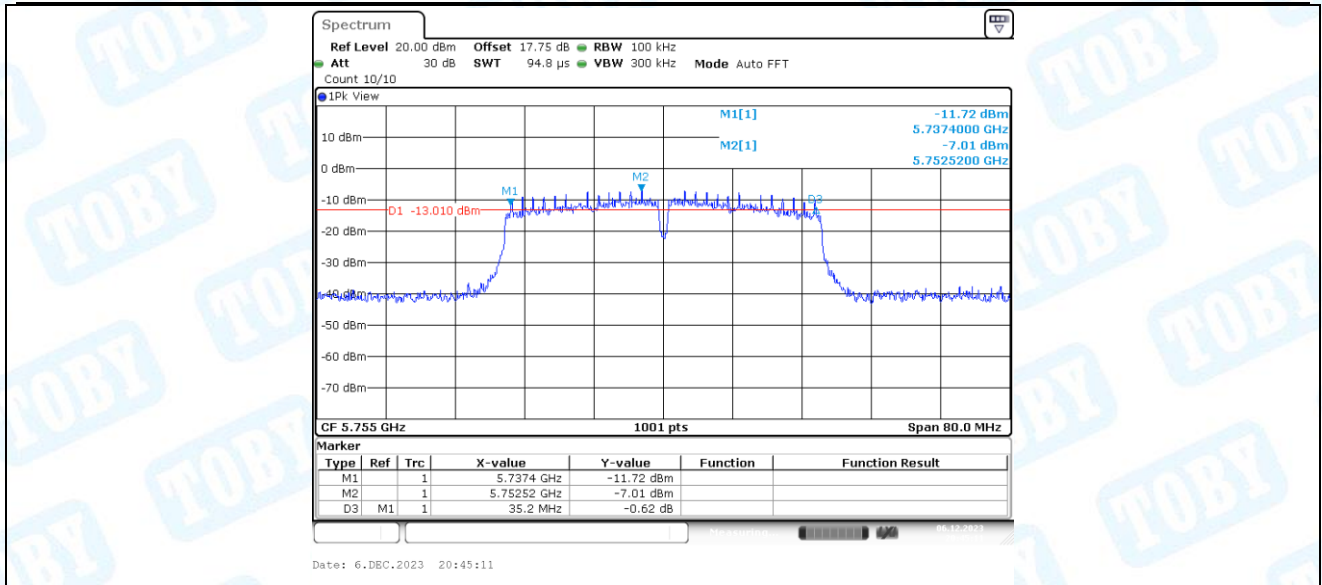
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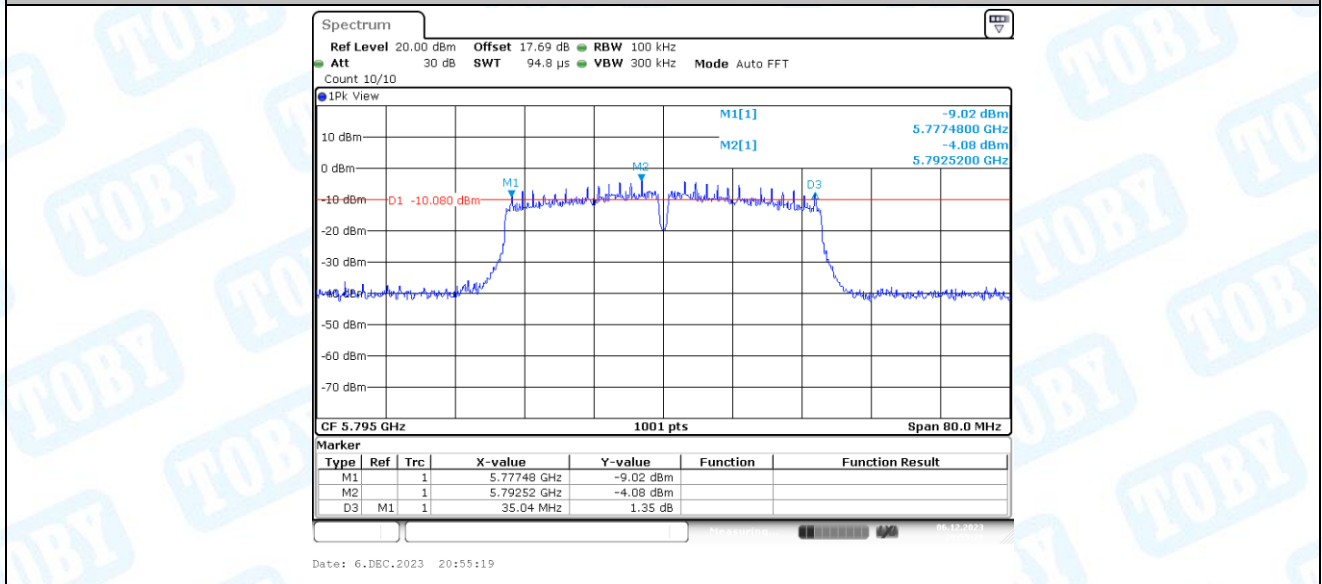
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	5.90	≤30.00	PASS
		5785	5.68	≤30.00	PASS
		5825	5.47	≤30.00	PASS
11N20SISO	Ant1	5745	5.95	≤30.00	PASS
		5785	5.46	≤30.00	PASS
		5825	5.85	≤30.00	PASS
11N40SISO	Ant1	5755	5.99	≤30.00	PASS
		5795	5.98	≤30.00	PASS
11AC20SISO	Ant1	5745	5.71	≤30.00	PASS
		5785	5.81	≤30.00	PASS
		5825	5.57	≤30.00	PASS
11AC40SISO	Ant1	5755	5.61	≤30.00	PASS
		5795	5.37	≤30.00	PASS

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

4. Maximum power spectral density

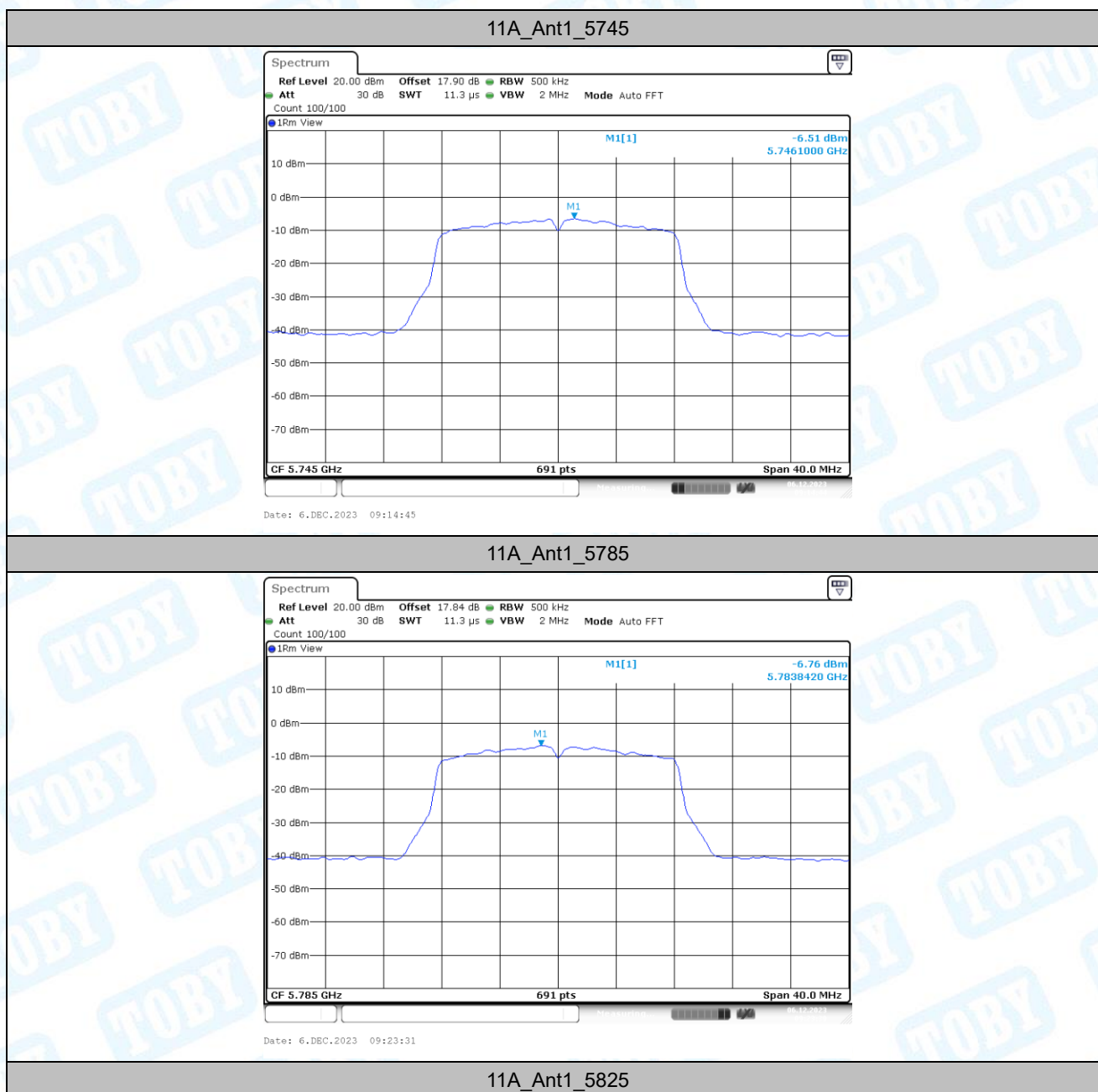
4.1. Test Result

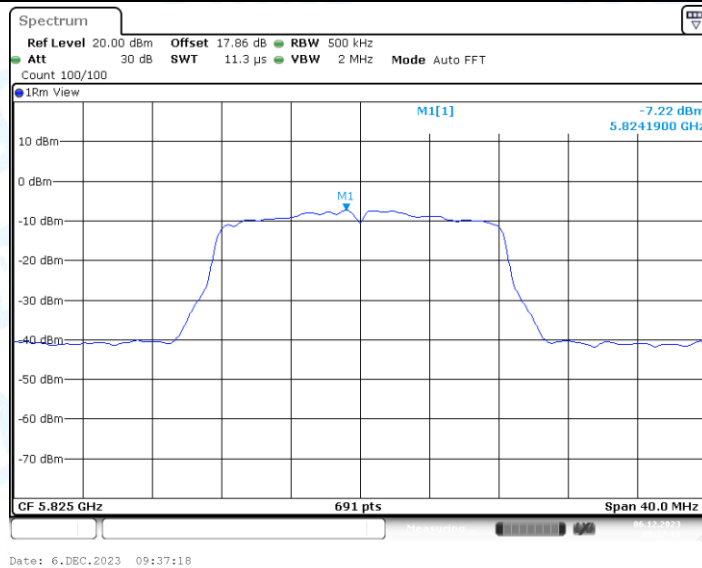
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-6.51	≤30.00	PASS
		5785	-6.76	≤30.00	PASS
		5825	-7.22	≤30.00	PASS
11N20SISO	Ant1	5745	-6.73	≤30.00	PASS
		5785	-7.53	≤30.00	PASS
		5825	-7.67	≤30.00	PASS
11N40SISO	Ant1	5755	-9.88	≤30.00	PASS
		5795	-9.51	≤30.00	PASS
11AC20SISO	Ant1	5745	-6.64	≤30.00	PASS
		5785	-7.48	≤30.00	PASS
		5825	-7.11	≤30.00	PASS
11AC40SISO	Ant1	5755	-9.76	≤30.00	PASS
		5795	-10.36	≤30.00	PASS

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

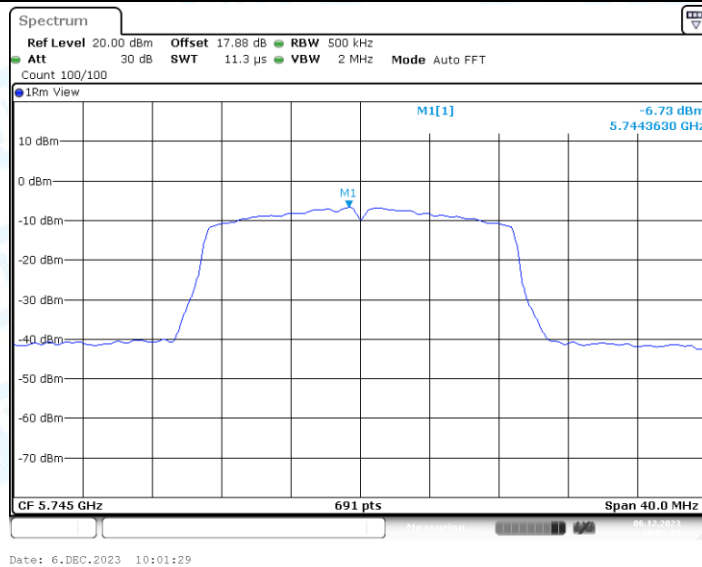
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

4.2. Test Graphs

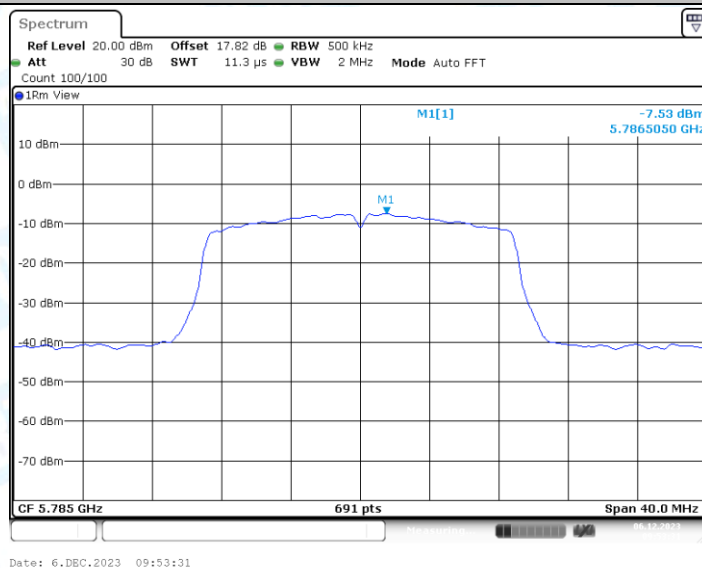




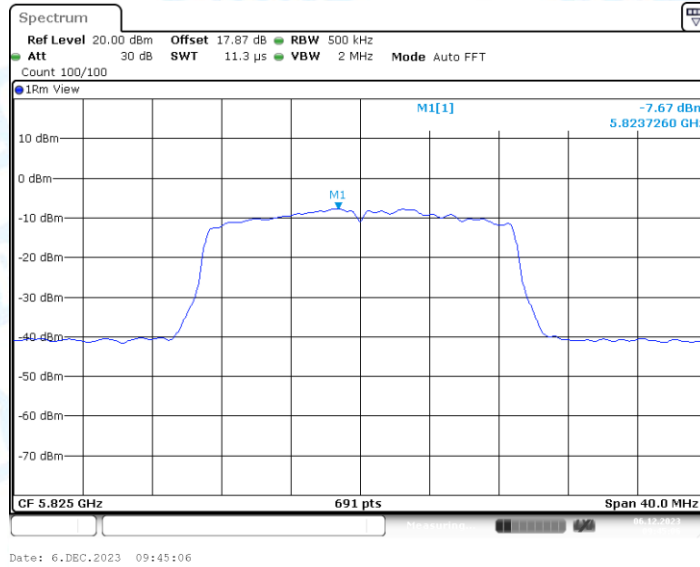
11N20SISO_Ant1_5745



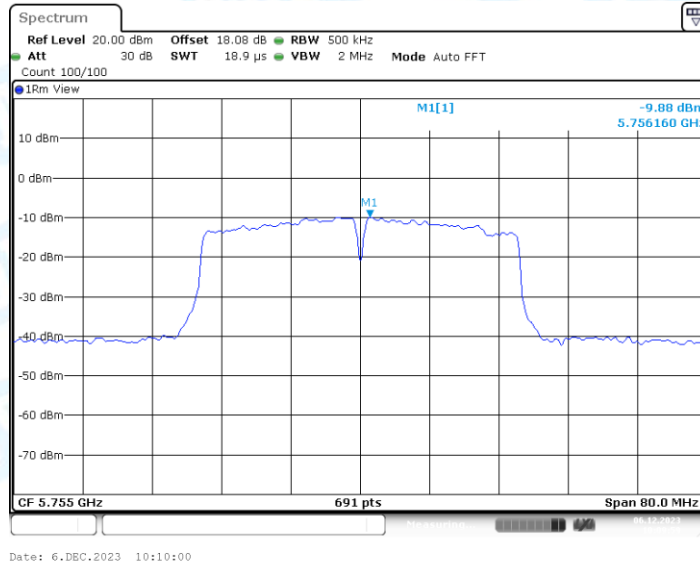
11N20SISO_Ant1_5785



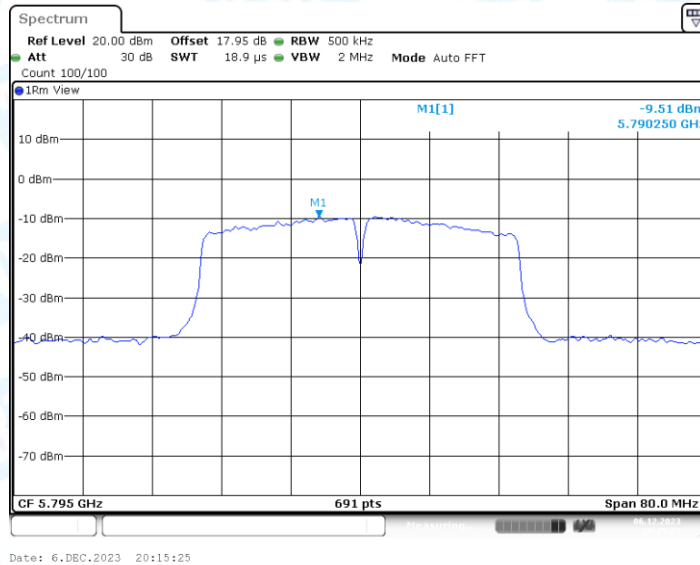
11N20SISO_Ant1_5825



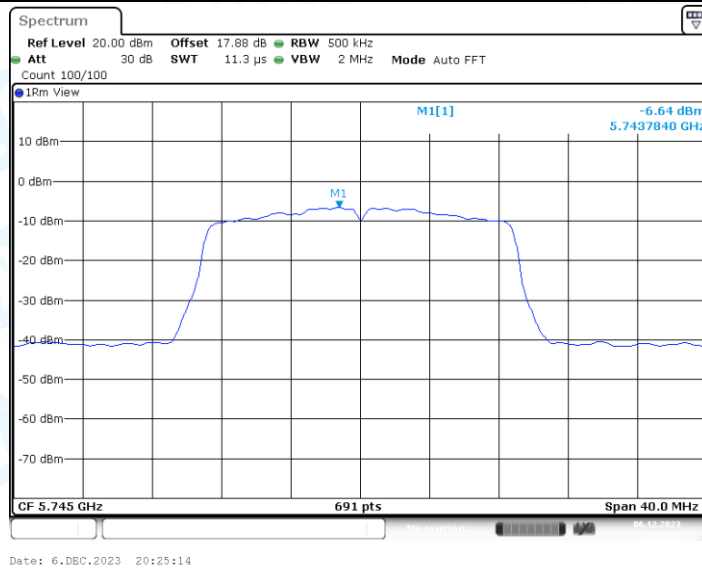
11N40SISO_Ant1_5755



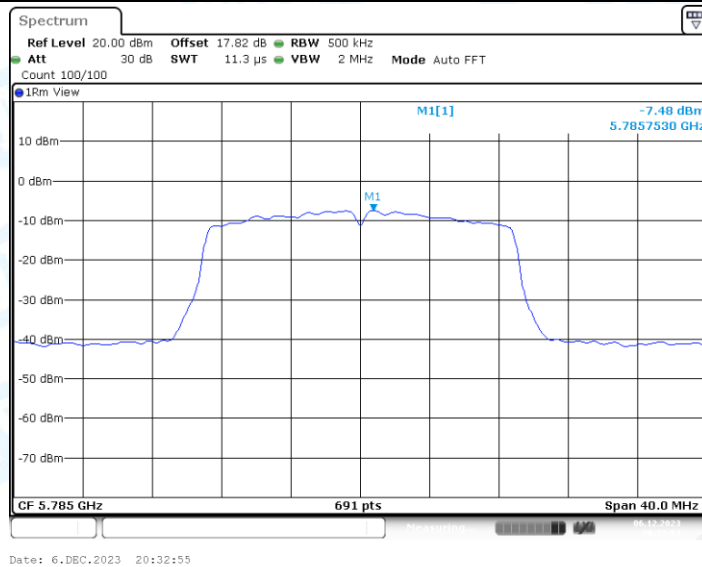
11N40SISO_Ant1_5795



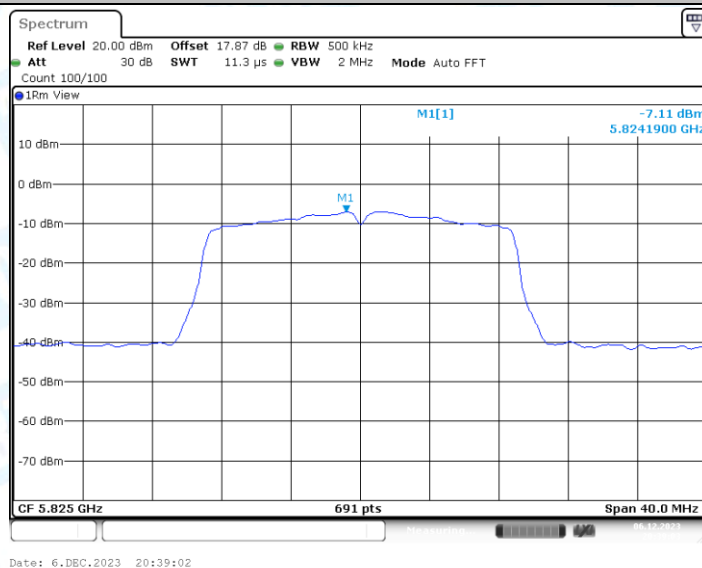
11AC20SISO_Ant1_5745



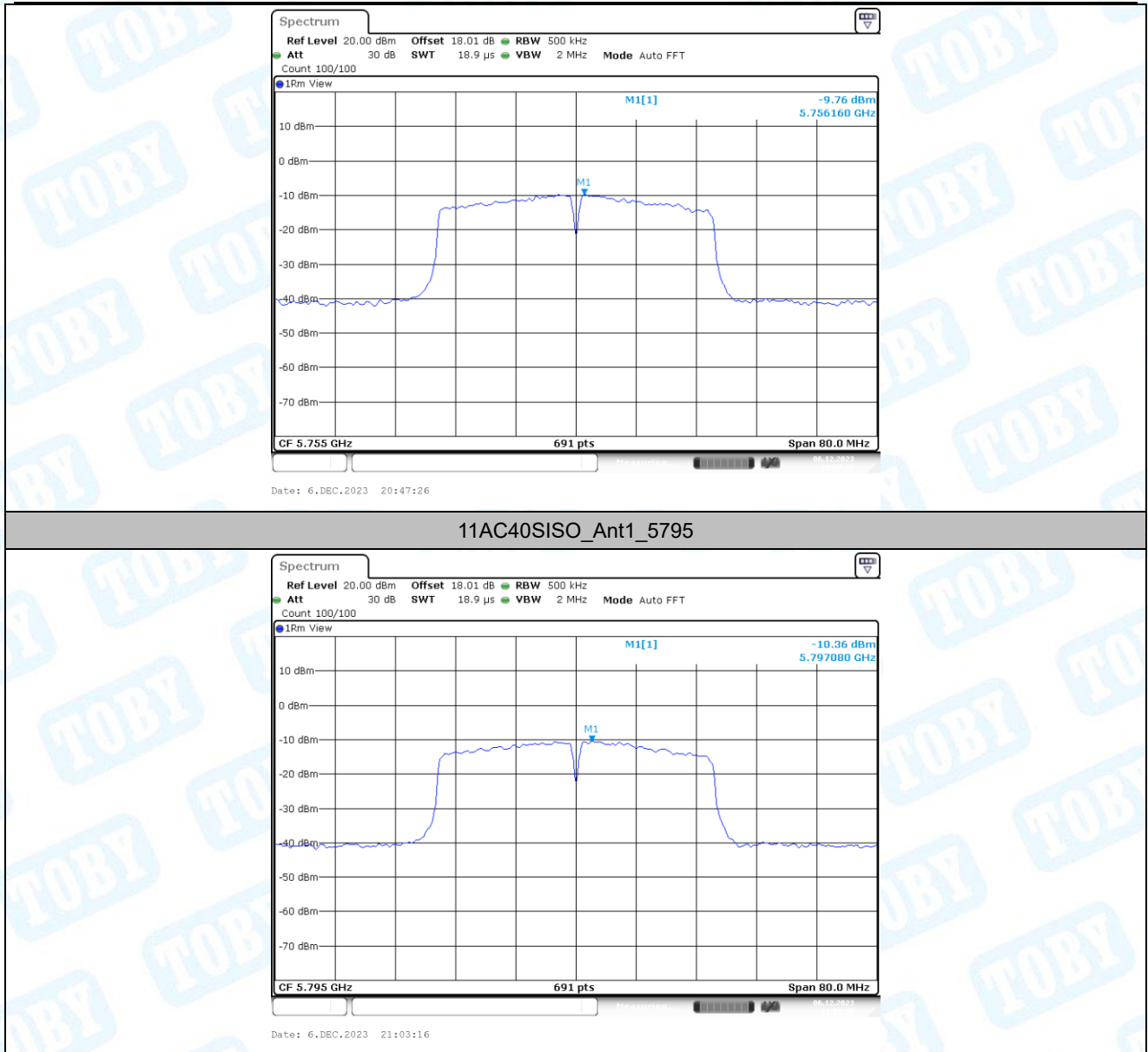
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



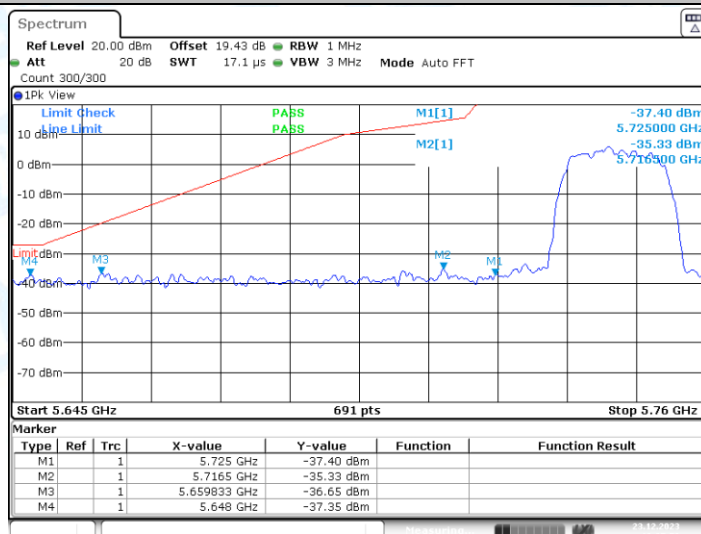
5. Band edge measurements

5.1. Test Result

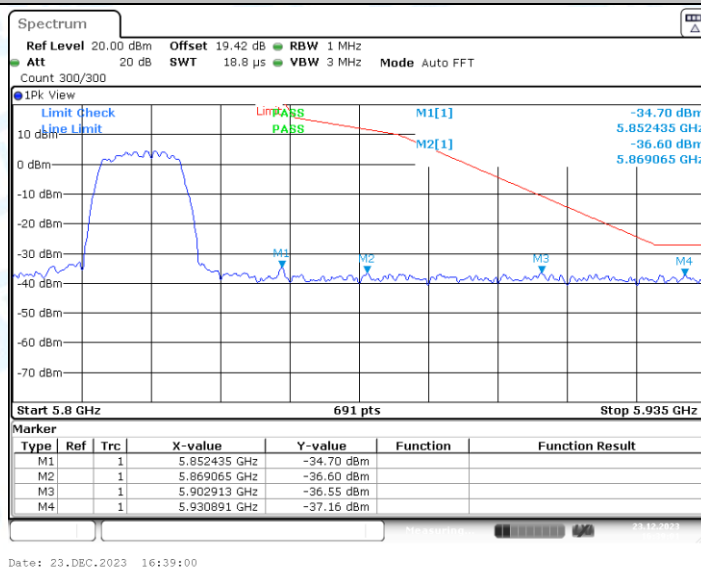
TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-36.65	≤-19.72	PASS
				5700~5720	-35.33	≤14.62	PASS
				5720~5725	-37.4	≤27.00	PASS
				5760~5650	-37.35	≤-27	PASS
		High	5825	5850~5855	-34.7	≤21.15	PASS
				5855~5875	-36.6	≤13.94	PASS
				5875~5925	-36.55	≤-6.34	PASS
				5925~5935	-37.16	≤-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-36.75	≤-5.91	PASS
				5700~5720	-36.73	≤13.73	PASS
				5720~5725	-36.11	≤21.30	PASS
				5760~5650	-37.6	≤-27	PASS
		High	5825	5850~5855	-37.65	≤17.58	PASS
				5855~5875	-36.23	≤12.51	PASS
				5875~5925	-35.05	≤8.28	PASS
				5925~5935	-36.5	≤-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-36.4	≤-13.33	PASS
				5700~5720	-36.06	≤15.58	PASS
				5720~5725	-35.04	≤23.48	PASS
				5780~5650	-37.56	≤-27	PASS
		High	5795	5850~5855	-37.6	≤25.12	PASS
				5855~5875	-34.75	≤14.32	PASS
				5875~5925	-35.28	≤-25.07	PASS
				5925~5935	-38.08	≤-27	PASS
11AC20SISO	Ant1	Low	5745	5650~5700	-37.3	≤-0.61	PASS
				5700~5720	-36.58	≤13.13	PASS
				5720~5725	-35.24	≤25.10	PASS
				5760~5650	-37.58	≤-27	PASS
		High	5825	5850~5855	-37.18	≤19.37	PASS
				5855~5875	-36.68	≤11.69	PASS
				5875~5925	-36.39	≤-21.84	PASS
				5925~5935	-37.17	≤-27	PASS
11AC40SISO	Ant1	Low	5755	5650~5700	-37.44	≤-26.50	PASS
				5700~5720	-35.6	≤15.14	PASS
				5720~5725	-35.74	≤20.81	PASS
				5780~5650	-36.84	≤-27	PASS
		High	5795	5850~5855	-35.94	≤25.66	PASS
				5855~5875	-35.19	≤14.46	PASS
				5875~5925	-35.87	≤-16.58	PASS
				5925~5935	-37.24	≤-27	PASS

5.2. Test Graphs

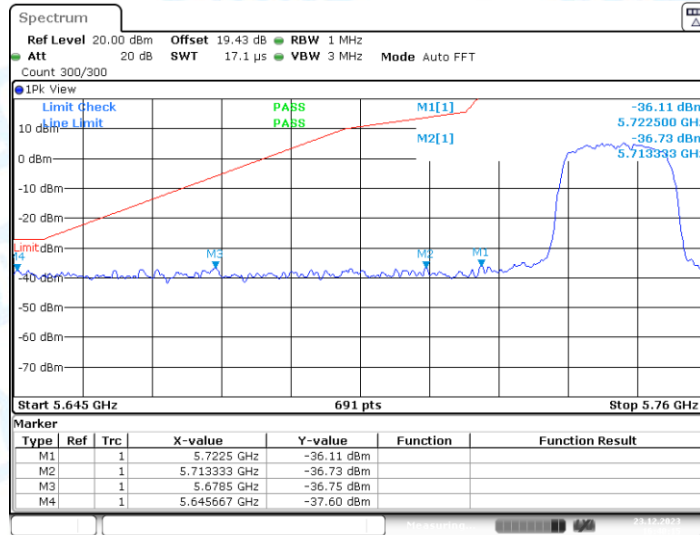
11A_Ant1_Low_5745



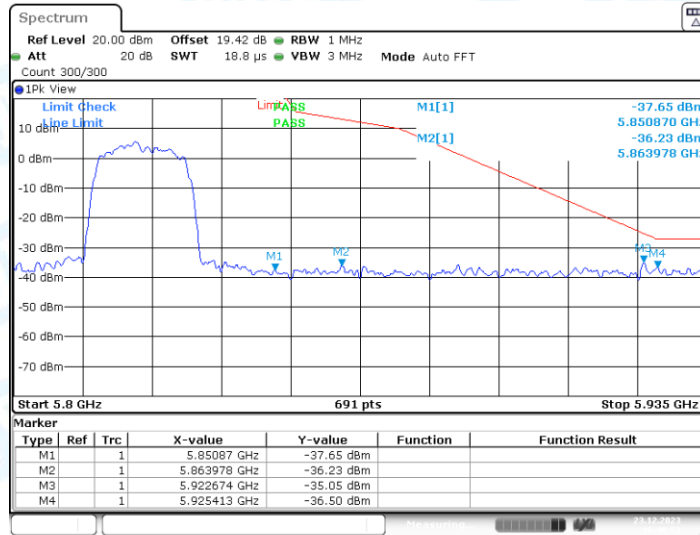
11A_Ant1_High_5825



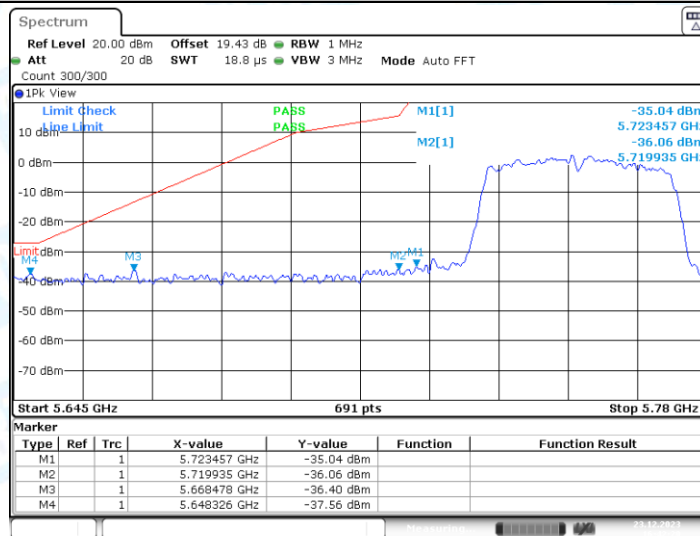
11N20SISO_Ant1_Low_5745



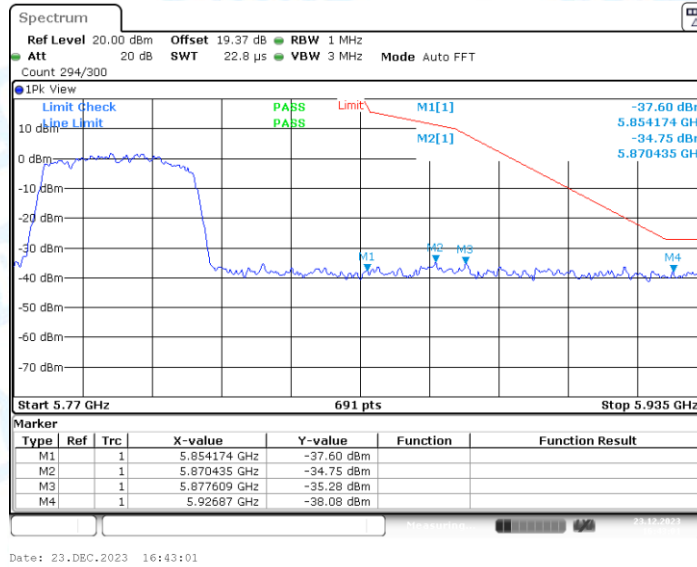
11N20SISO_Ant1_High_5825



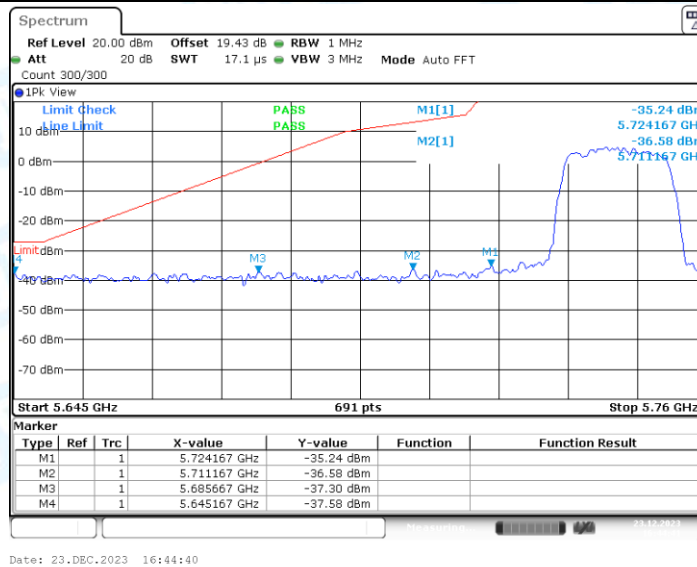
11N40SISO_Ant1_Low_5755



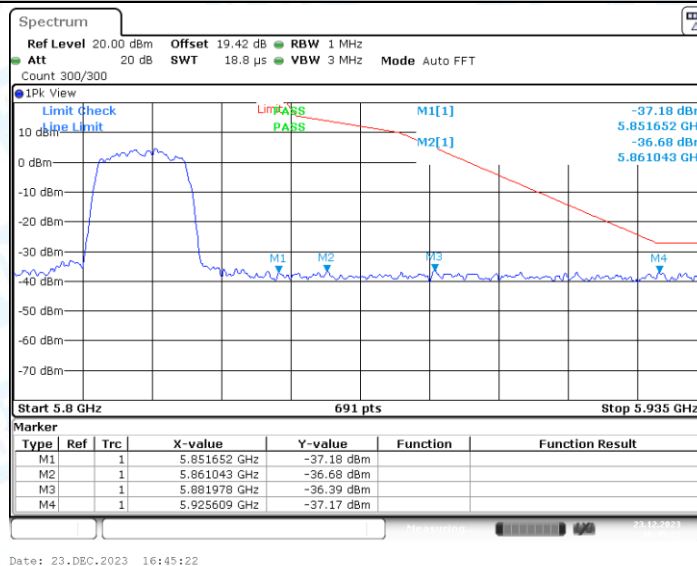
11N40SISO_Ant1_High_5795



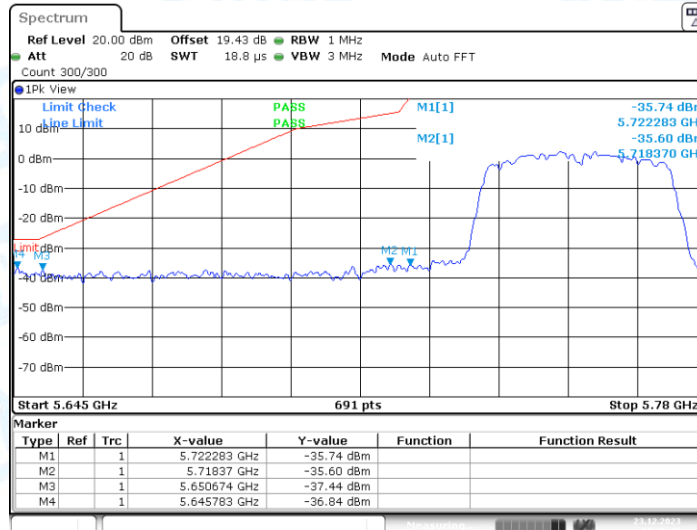
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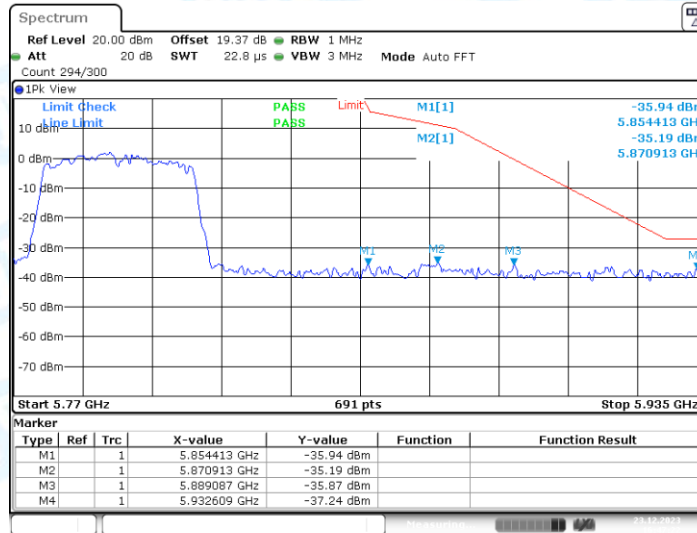
11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



6. Emissions in Restricted Bands

6.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-38.96	≤-27.00	PASS
				Peak	5700.000	-37.75	≤10.00	PASS
				Peak	5720.000	-37.53	≤15.60	PASS
				Peak	5725.000	-36.57	≤27.00	PASS
		High	5825	Peak	5850.000	-37.7	≤27.00	PASS
				Peak	5855.000	-36.69	≤15.60	PASS
				Peak	5875.000	-37.1	≤10.00	PASS
				Peak	5925.000	-37.53	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-38.11	≤-27.00	PASS
				Peak	5700.000	-37.91	≤10.00	PASS
				Peak	5720.000	-37.91	≤15.60	PASS
				Peak	5725.000	-34.92	≤27.00	PASS
		High	5825	Peak	5850.000	-36.94	≤27.00	PASS
				Peak	5855.000	-37.3	≤15.60	PASS
				Peak	5875.000	-37.06	≤10.00	PASS
				Peak	5925.000	-37.62	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-38.23	≤-27.00	PASS
				Peak	5700.000	-37.49	≤10.00	PASS
				Peak	5720.000	-35.99	≤15.60	PASS
				Peak	5725.000	-33.82	≤27.00	PASS
		High	5795	Peak	5850.000	-38.07	≤27.00	PASS
				Peak	5855.000	-36.8	≤15.60	PASS
				Peak	5875.000	-37.22	≤10.00	PASS
				Peak	5925.000	-37.7	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-36.69	≤-27.00	PASS
				Peak	5700.000	-36.44	≤10.00	PASS
				Peak	5720.000	-37.3	≤15.60	PASS
				Peak	5725.000	-37.16	≤27.00	PASS
		High	5825	Peak	5850.000	-37.99	≤27.00	PASS
				Peak	5855.000	-36.63	≤15.60	PASS
				Peak	5875.000	-36.53	≤10.00	PASS
				Peak	5925.000	-36.95	≤-27.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-37.5	≤-27.00	PASS
				Peak	5700.000	-36.21	≤10.00	PASS
				Peak	5720.000	-35.61	≤15.60	PASS
				Peak	5725.000	-36.17	≤27.00	PASS
		High	5795	Peak	5850.000	-37.3	≤27.00	PASS
				Peak	5855.000	-36.94	≤15.60	PASS
				Peak	5875.000	-36.55	≤10.00	PASS
				Peak	5925.000	-37.03	≤-27.00	PASS

Note:

- The Antenna Gain is compensated in the graph.
- For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

6.2. Test Graphs

