5.BANDWIDTH

5.1LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a) FCC 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
	6dB Bandwidth	Minimum 500 kHz	5725-5850

5.2TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below

b. Spectrum Setting:

For UNII-1, UNII-2A, UNII-2C

Spectrum Parameter	Setting
Span Frequency	> 26dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Occupied Bandwidth:

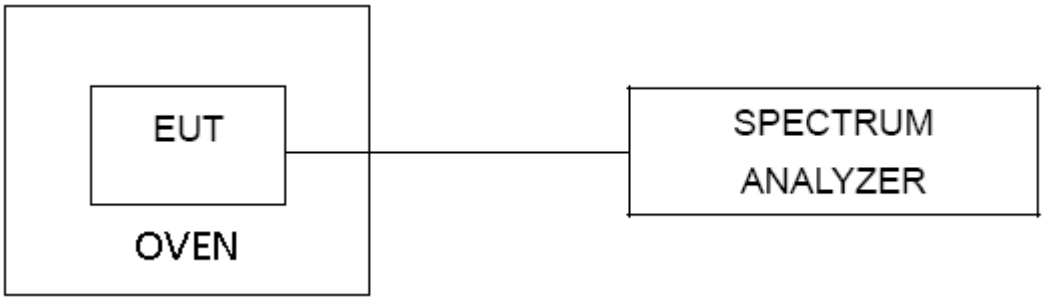
Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	≥3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26dB / 6dB below carrier.

5.3DEVIATION FROM STANDARD

No deviation.

5.4TEST SETUP



5.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6.MAXIMUMOUTPUT POWER

6.1LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	MAXimumOutput Power	AP device:1 Watt (30dBm) Client device: 250mW (23.98dBm)	5150-5250
		250mW (23.98dBm)	5250-5350
		250mW (23.98dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

a. For client devices in the 5.15-5.25 GHz band, the Maximumconducted output power over the frequency band of operation shall not exceed 250 mW provided the Maximumantenna gain does not exceed 6 dBi. In addition, the Maximumpower spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the Maximumconducted output power and the Maximumpower spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the Maximumconducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

6.2TEST PROCEDURE

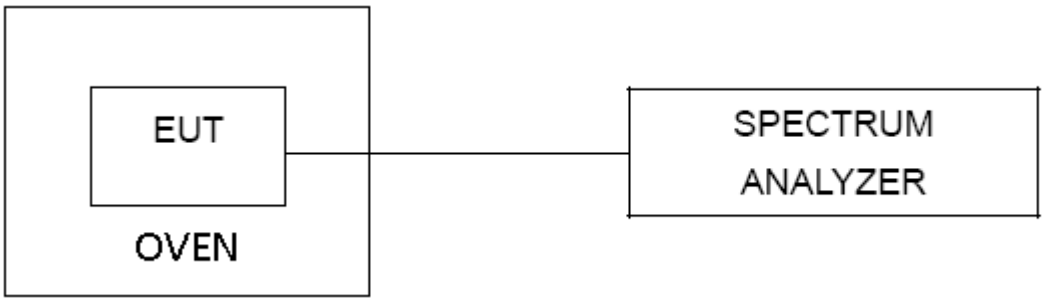
a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.

b. The test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3DEVIATION FROM STANDARD

No deviation.

6.4TEST SETUP



6.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7.POWER SPECTRAL DENSITY

7.1LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Power Spectral Density	AP device:17dBm/MHz Client device:11dBm/MHz	5150-5250
		11dBm/MHz	5250-5350
		11dBm/MHz	5470-5725
		30dBm/500kHz	5725-5850

7.2TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting:

For UNII-1, UNII-2C, UNII-2C

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1MHz.
VBW	3MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

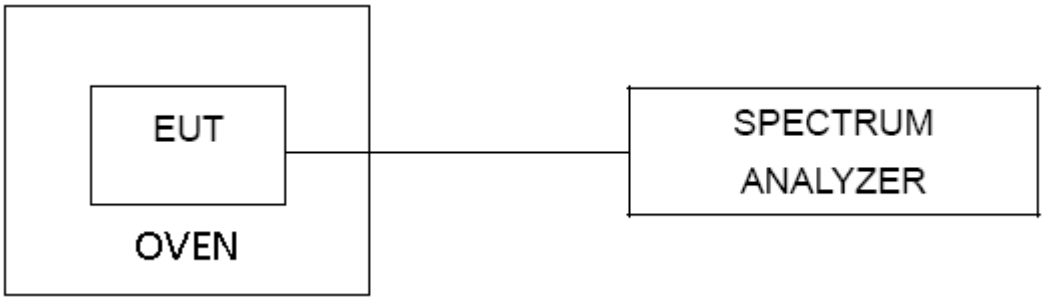
For UNII-3:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	500KHz.
VBW	2MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

7.3DEVIATION FROM STANDARD

No deviation.

7.4TEST SETUP



7.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIXG.

8.FREQUENCY STABILITY

8.1LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5250-5350
			5470-5725
			5725-5850

8.2TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting:

Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissionsbandwidth
RBW	10 kHz
VBW	10kHz
Detector	Peak
Trace	MAX Hold
Sweep Time	Auto

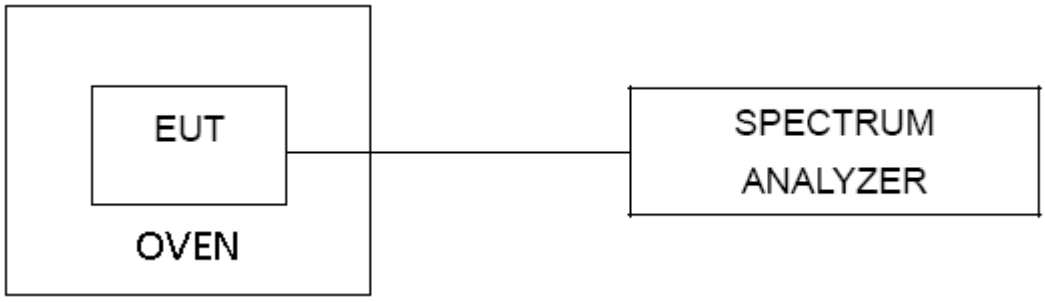
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is-30°C~75°C.

8.3DEVIATION FROM STANDARD

No deviation.

8.4TEST SETUP



8.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

N/A.

9. MEASUREMENT INSTRUMENTS LIST

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Receiver	Rohde&Schwarz	ESIB 40	YH-TIRT-SAC-966-20220911	2025/01/05	2026/01/04
Integral Antenna	Schwarzbeck	VULB 9163	01314	2024/12/11	2026/12/10
Integral Antenna	Rohde&Schwarz	HF907	RSM2991424	2024/12/11	2026/12/10
Preamplifier	Emtrace	RP01A	'02017	2025/01/05	2026/01/04
Preamplifier	Schwarzbeck	BBV9744	00143	2025/01/05	2026/01/04
Loop Antenna	ZHINAN	ZN30900A	12024	2025/01/05	2026/01/04
Horn Antenna	Schwarzbeck	BBHA9170	00956	2025/01/05	2026/01/04
RF Cable	/	LMR400UF-NMNM-7.0M	/	2025/01/05	2026/01/04
RF Cable	/	SFT2050PUR-NMNM-7.0M	/	2025/01/05	2026/01/04
EMI Receiver	Rohde&Schwarz	ESR7	1316.3003K07-102611-mk	2024/11/02	2025/11/01
LISN	Rohde&Schwarz	ENV216	3560.655.12-102915-Bp	2024/11/02	2025/11/01
RF Cable	\	SFT2050PUR-NMNM-2.0M	\	2025/01/05	2026/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2025/01/05	2026/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	101722	2025/01/05	2026/01/04
Filter	HEWLETT PACKARD	JS0806-F	19K8060209	2025/01/05	2026/01/04

10.EUT TEST PHOTOS

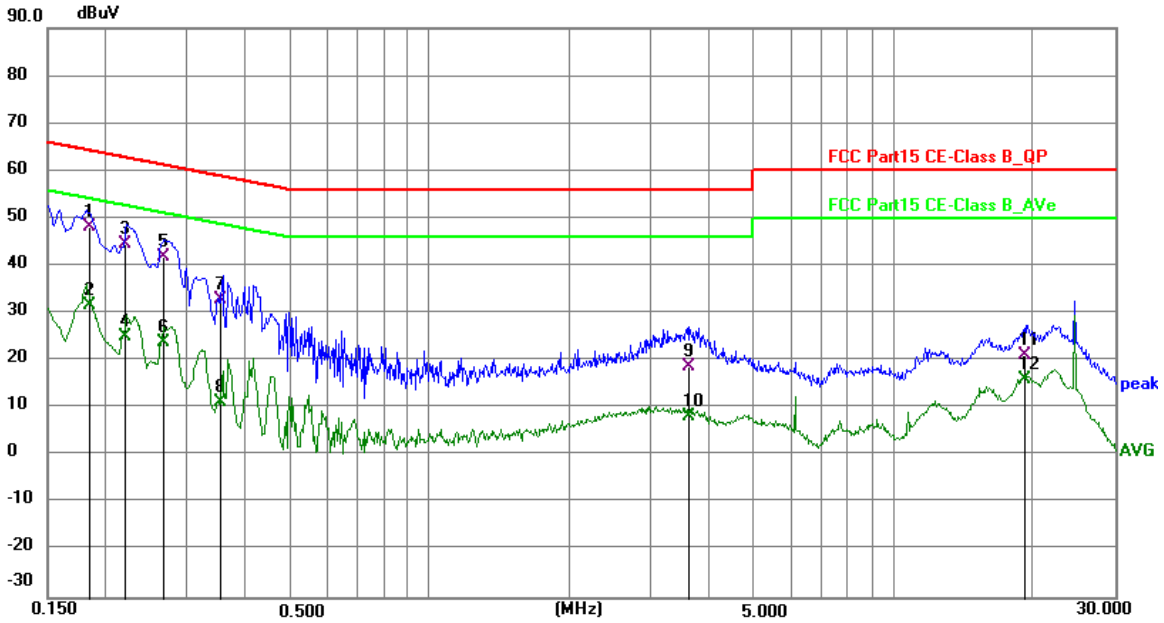
Please reference to the appendix I Test Setup Photo for details.

11.EUT PHOTOS

Please reference to the appendix II external photos and appendix III internal photos for details..

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

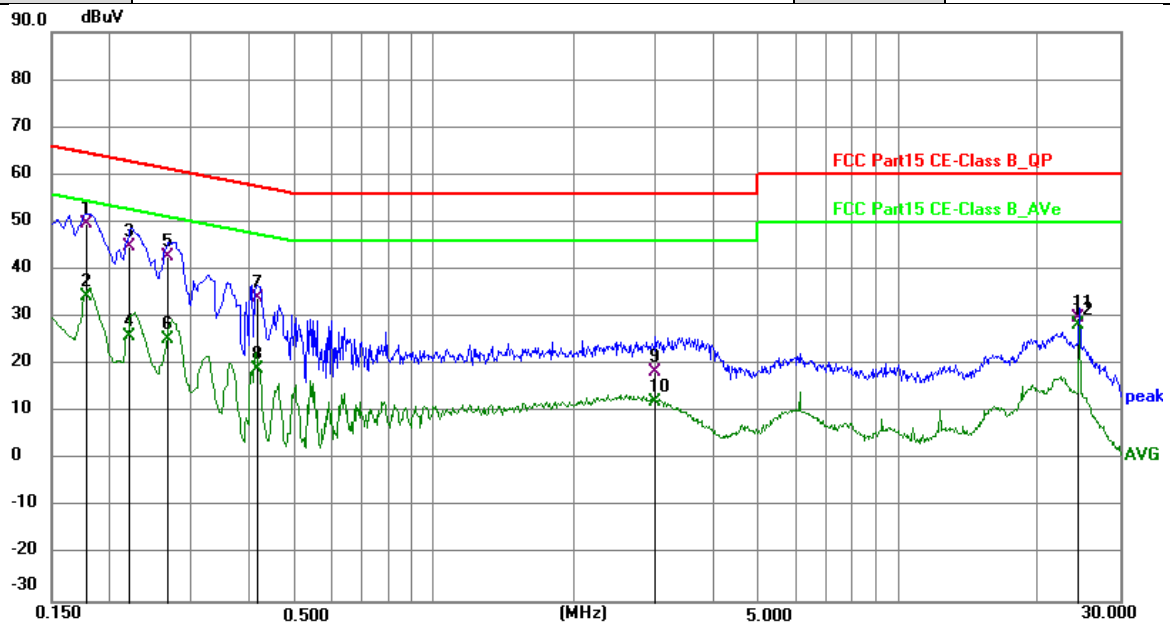
Test Mode	TX A Mode Channel 140 (UNII-2C)	Phase	Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1850	38.57	9.63	48.20	64.26	-16.06	QP	P	
2	0.1850	22.00	9.63	31.63	54.26	-22.63	AVG	P	
3	0.2203	34.85	9.63	44.48	62.81	-18.33	QP	P	
4	0.2203	15.44	9.63	25.07	52.81	-27.74	AVG	P	
5	0.2661	32.28	9.63	41.91	61.24	-19.33	QP	P	
6	0.2661	14.08	9.63	23.71	51.24	-27.53	AVG	P	
7	0.3531	23.15	9.63	32.78	58.89	-26.11	QP	P	
8	0.3531	1.73	9.63	11.36	48.89	-37.53	AVG	P	
9	3.6392	9.12	9.67	18.79	56.00	-37.21	QP	P	
10	3.6392	-1.31	9.67	8.36	46.00	-37.64	AVG	P	
11	19.2971	11.45	9.78	21.23	60.00	-38.77	QP	P	
12	19.2971	6.25	9.78	16.03	50.00	-33.97	AVG	P	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

Test Mode	TX A Mode Channel 140 (UNII-2C)	Phase	Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1784	39.95	9.63	49.58	64.56	-14.98	QP	P	
2	0.1784	24.80	9.63	34.43	54.56	-20.13	AVG	P	
3	0.2203	35.14	9.63	44.77	62.81	-18.04	QP	P	
4	0.2203	16.40	9.63	26.03	52.81	-26.78	AVG	P	
5	0.2685	33.15	9.62	42.77	61.16	-18.39	QP	P	
6	0.2685	15.79	9.62	25.41	51.16	-25.75	AVG	P	
7	0.4166	24.34	9.62	33.96	57.52	-23.56	QP	P	
8	0.4166	9.48	9.62	19.10	47.52	-28.42	AVG	P	
9	3.0109	8.74	9.67	18.41	56.00	-37.59	QP	P	
10	3.0109	2.59	9.67	12.26	46.00	-33.74	AVG	P	
11	24.5756	19.95	9.84	29.79	60.00	-30.21	QP	P	
12	24.5756	18.50	9.84	28.34	50.00	-21.66	AVG	P	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

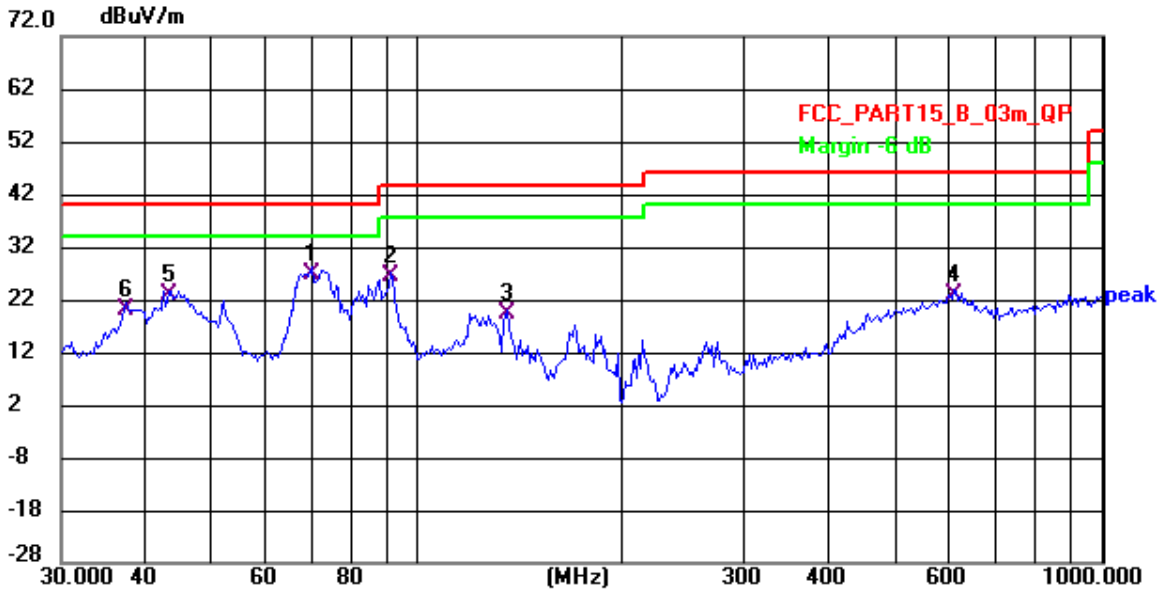
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

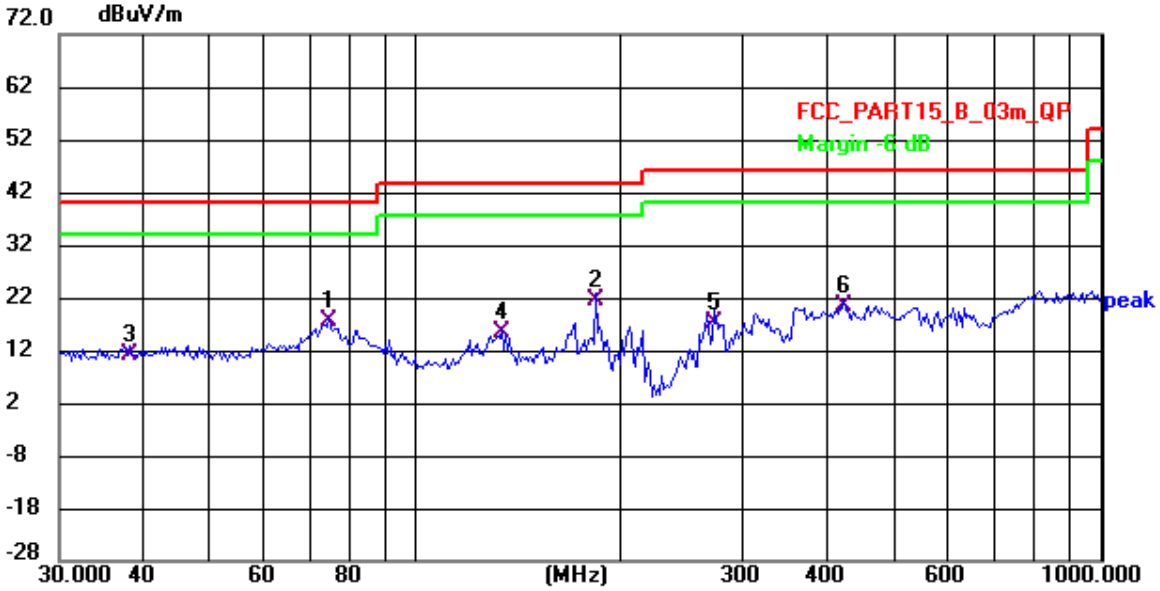
Test Mode	TX A Mode Channel 140 (UNII-2C)	Polarization	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	69.718	49.00	-22.02	26.98	40.00	-13.02	QP	100	206	P	
2	91.057	50.87	-24.33	26.54	43.50	-16.96	QP	100	228	P	
3	134.964	40.77	-21.45	19.32	43.50	-24.18	QP	100	254	P	
4	607.181	36.96	-13.95	23.01	46.00	-22.99	QP	100	321	P	
5	43.233	42.13	-19.39	22.74	40.00	-17.26	QP	100	0	P	
6	37.302	39.58	-19.57	20.01	40.00	-19.99	QP	100	171	P	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX A Mode Channel 140 (UNII-2C)	Polarization	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	74.270	40.57	-22.99	17.58	40.00	-22.42	QP	199	347	P	
2 *	182.578	44.46	-23.14	21.32	43.50	-22.18	QP	199	86	P	
3	38.096	30.71	-19.46	11.25	40.00	-28.75	QP	200	14	P	
4	133.081	36.81	-21.49	15.32	43.50	-28.18	QP	200	0	P	
5	272.524	40.06	-23.01	17.05	46.00	-28.95	QP	200	0	P	
6	421.329	39.02	-18.71	20.31	46.00	-25.69	QP	200	180	P	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Result of Band edges.
Test Result B1/2/3

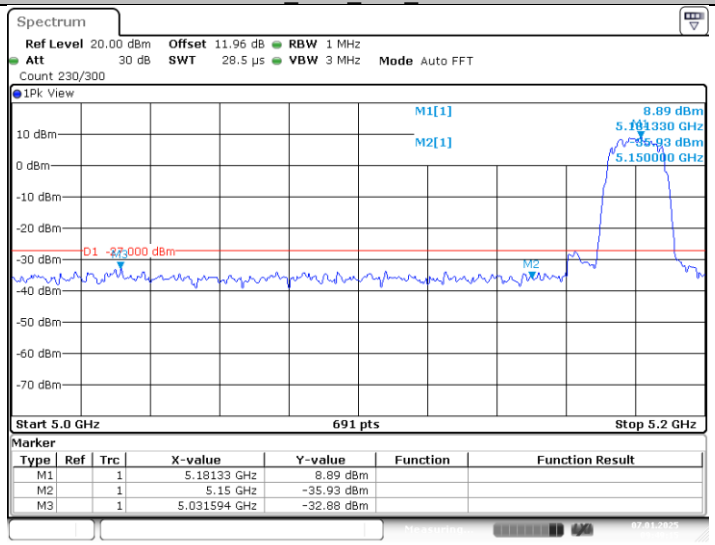
TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-32.88	≤-27	PASS
		High	5240	-32.49	≤-27	PASS
		Low	5260	-32.99	≤-27	PASS
		High	5320	-31.6	≤-27	PASS
		Low	5500	-31.08	≤-27	PASS
		High	5700	-31.48	≤-27	PASS
11N20	Ant1	Low	5180	-32.63	≤-27	PASS
		High	5240	-32.64	≤-27	PASS
		Low	5260	-32.26	≤-27	PASS
		High	5320	-32.16	≤-27	PASS
		Low	5500	-31.81	≤-27	PASS
		High	5700	-32.69	≤-27	PASS
11N40	Ant1	Low	5190	-33.22	≤-27	PASS
		High	5230	-31.94	≤-27	PASS
		Low	5270	-34.68	≤-27	PASS
		High	5310	-32.48	≤-27	PASS
		Low	5510	-32.09	≤-27	PASS
		High	5670	-32.2	≤-27	PASS
11AC20	Ant1	Low	5180	-33.12	≤-27	PASS
		High	5240	-31.44	≤-27	PASS
		Low	5260	-32.48	≤-27	PASS
		High	5320	-32.17	≤-27	PASS
		Low	5500	-31.4	≤-27	PASS
		High	5700	-31.79	≤-27	PASS
11AC40	Ant1	Low	5190	-32.99	≤-27	PASS
		High	5230	-31.7	≤-27	PASS
		Low	5270	-33.32	≤-27	PASS
		High	5310	-31.14	≤-27	PASS
		Low	5510	-31.14	≤-27	PASS
		High	5670	-32.1	≤-27	PASS
11AC80	Ant1	High	5210	-31.55	≤-27	PASS
		Low	5290	-33.89	≤-27	PASS

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-35.43	≤-26.88	PASS
				5700~5720	-33.63	≤10.70	PASS
				5720~5725	-33.51	≤15.98	PASS
				5760~5650	-34.63	≤-27	PASS
		High	5825	5850~5855	-33.01	≤15.65	PASS
				5855~5875	-32.51	≤10.95	PASS
				5875~5925	-32.77	≤-25.42	PASS
				5925~5935	-33.62	≤-27	PASS
11N20	Ant1	Low	5745	5650~5700	-34.61	≤-26.88	PASS
				5700~5720	-33.76	≤10.33	PASS
				5720~5725	-34.33	≤15.98	PASS
				5760~5650	-34.13	≤-27	PASS
		High	5825	5850~5855	-34.91	≤15.65	PASS
				5855~5875	-33.11	≤10.46	PASS
				5875~5925	-34.1	≤-26.15	PASS
				5925~5935	-32.69	≤-27	PASS
11N40	Ant1	Low	5755	5650~5700	-35.4	≤-26.50	PASS
				5700~5720	-31.01	≤10.05	PASS
				5720~5725	-31.76	≤16.34	PASS
				5780~5650	-33.58	≤-27	PASS
		High	5795	5850~5855	-34.07	≤15.85	PASS
				5855~5875	-31.55	≤11.21	PASS
				5875~5925	-35.06	≤-26.61	PASS
				5925~5935	-33.37	≤-27	PASS
11AC20	Ant1	Low	5745	5650~5700	-35.16	≤-26.88	PASS
				5700~5720	-33.37	≤10.23	PASS
				5720~5725	-35.49	≤15.98	PASS
				5760~5650	-34.41	≤-27	PASS
		High	5825	5850~5855	-34.5	≤15.65	PASS
				5855~5875	-32.75	≤11.22	PASS
				5875~5925	-35.13	≤-26.87	PASS
				5925~5935	-33.29	≤-27	PASS
11AC40	Ant1	Low	5755	5650~5700	-34.68	≤-26.21	PASS
				5700~5720	-33.22	≤10.05	PASS
				5720~5725	-31.47	≤15.90	PASS
				5780~5650	-34.57	≤-27	PASS
		High	5795	5850~5855	-33.24	≤16.39	PASS
				5855~5875	-33.19	≤10.54	PASS
				5875~5925	-35.15	≤-26.97	PASS
				5925~5935	-34.11	≤-27	PASS
11AC80	Ant1	Low	5775	5650~5700	-35.1	≤-26.54	PASS
				5700~5720	-31.7	≤10.83	PASS
				5720~5725	-28.57	≤15.67	PASS
				5800~5650	-34.22	≤-27	PASS
		High	5775	5850~5855	-33.49	≤15.98	PASS
				5855~5875	-32.95	≤10.02	PASS
				5875~5925	-32.57	≤-26.46	PASS
				5925~5935	-33.72	≤-27	PASS

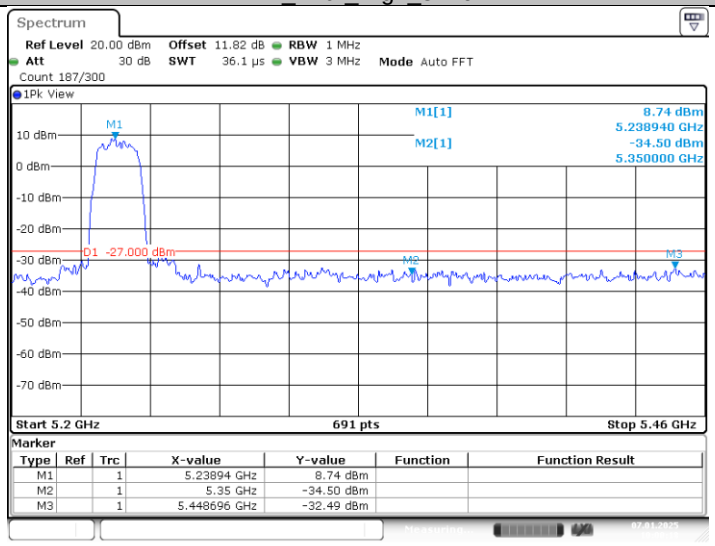
Test Graphs B1/2/3

11A_Ant1_Low_5180



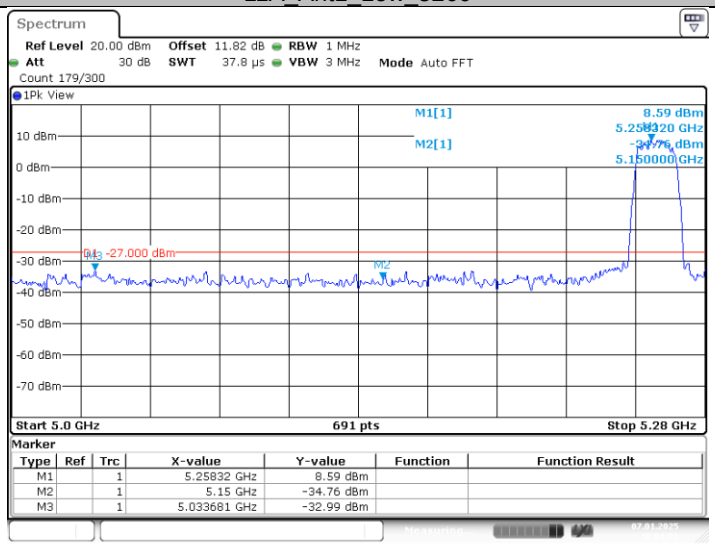
Date: 7.JAN.2025 09:49:15

11A_Ant1_High_5240



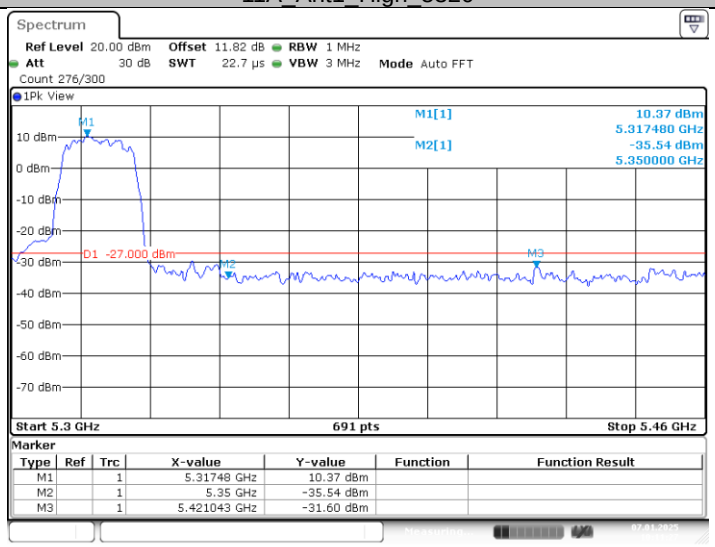
Date: 7.JAN.2025 10:00:18

11A_Ant1_Low_5260

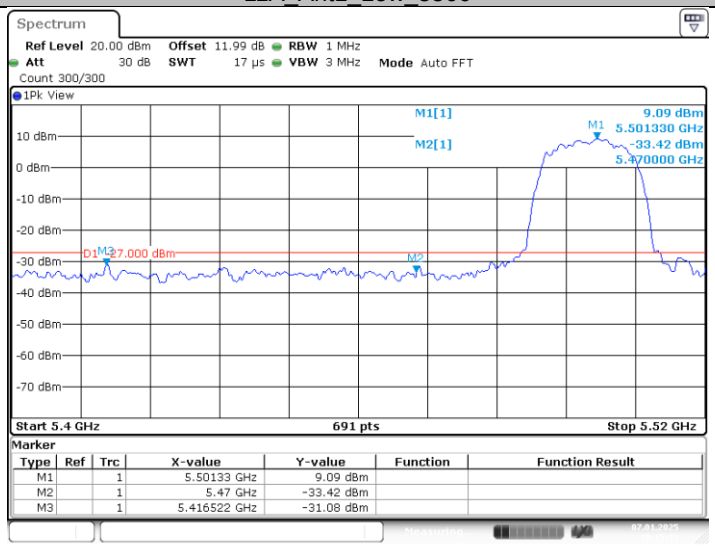


Date: 7.JAN.2025 10:04:01

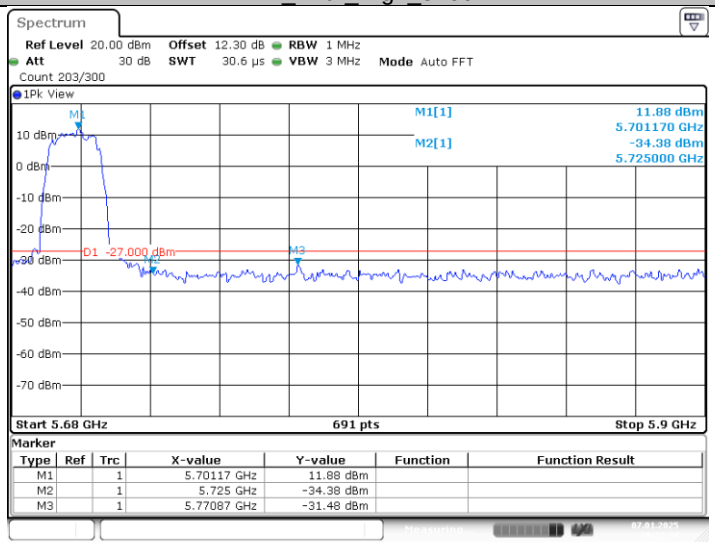
11A_Ant1_High_5320



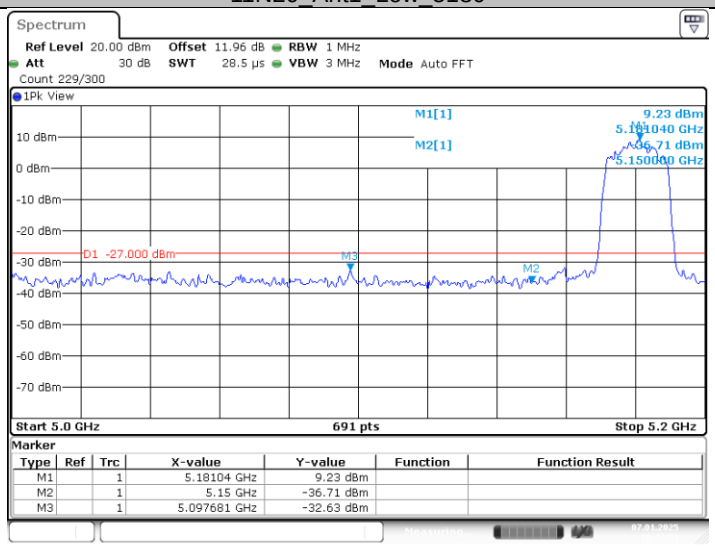
11A_Ant1_Low_5500



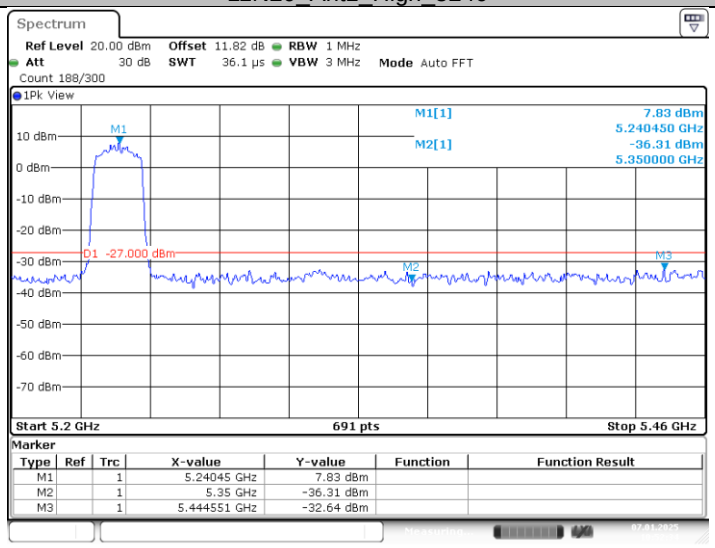
11A_Ant1_High_5700



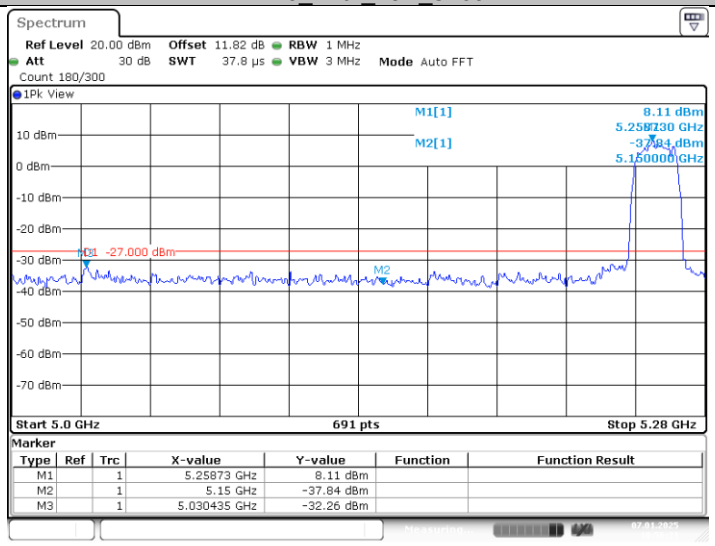
11N20_Ant1_Low_5180



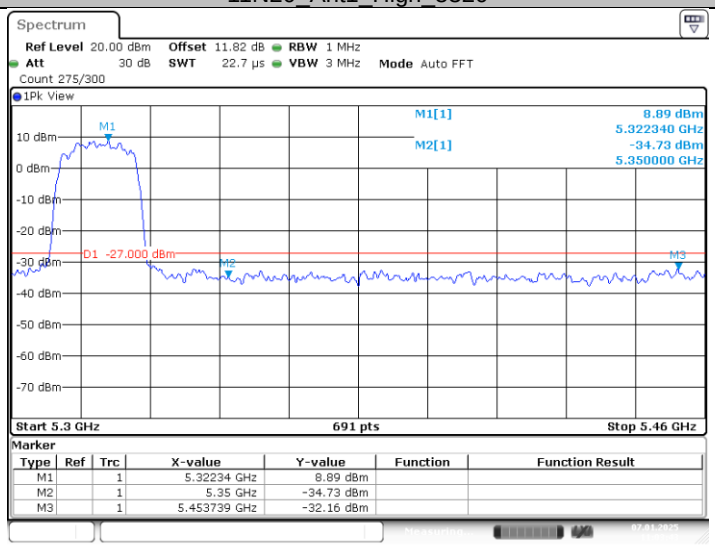
11N20_Ant1_High_5240



11N20_Ant1_Low_5260

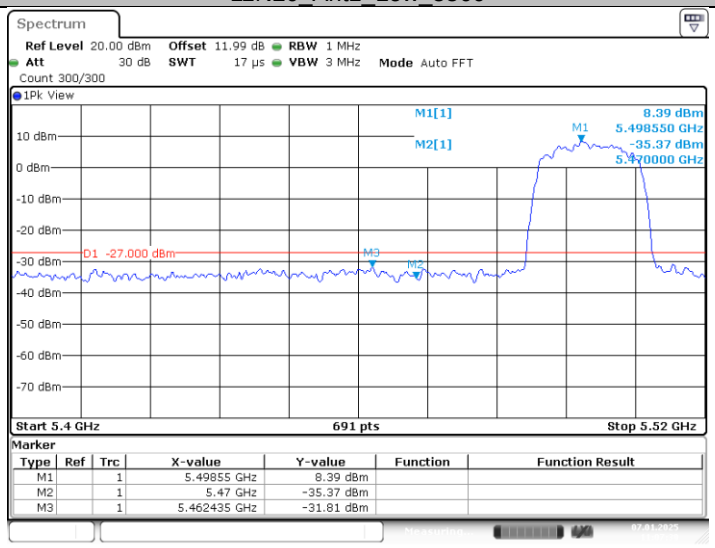


11N20_Ant1_High_5320



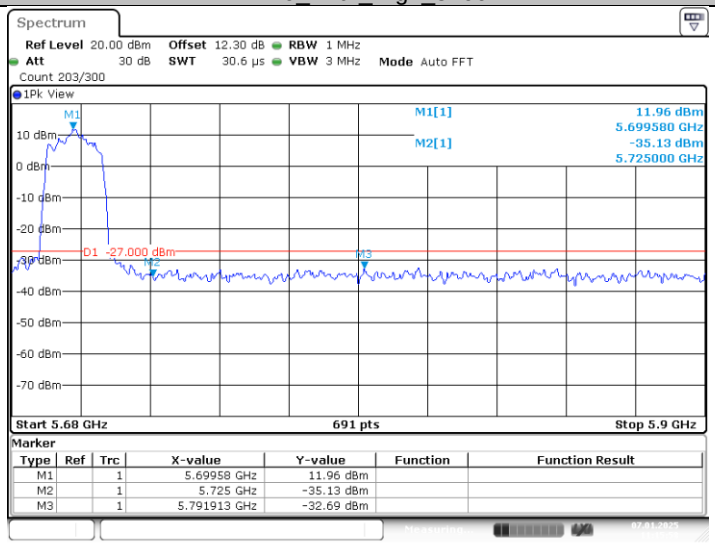
Date: 7.JAN.2025 11:03:43

11N20_Ant1_Low_5500



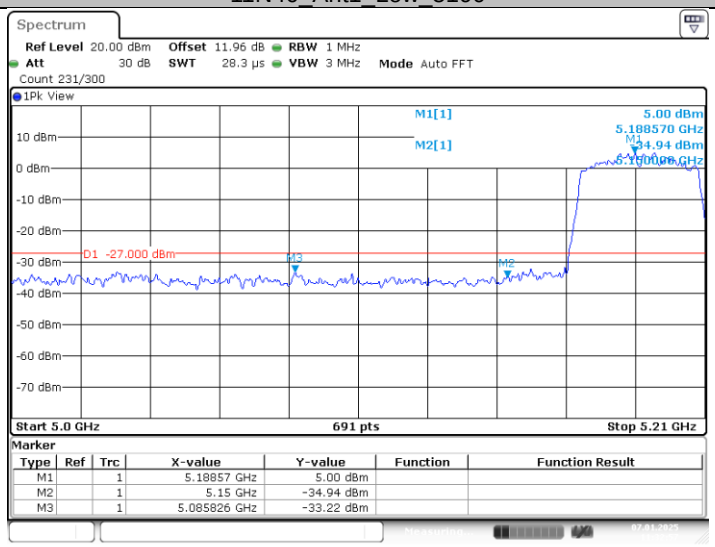
Date: 7.JAN.2025 11:07:30

11N20_Ant1_High_5700

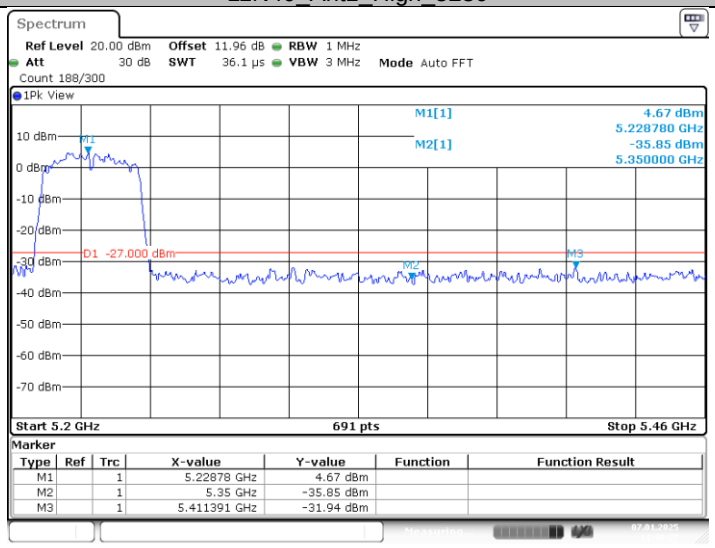


Date: 7.JAN.2025 11:15:57

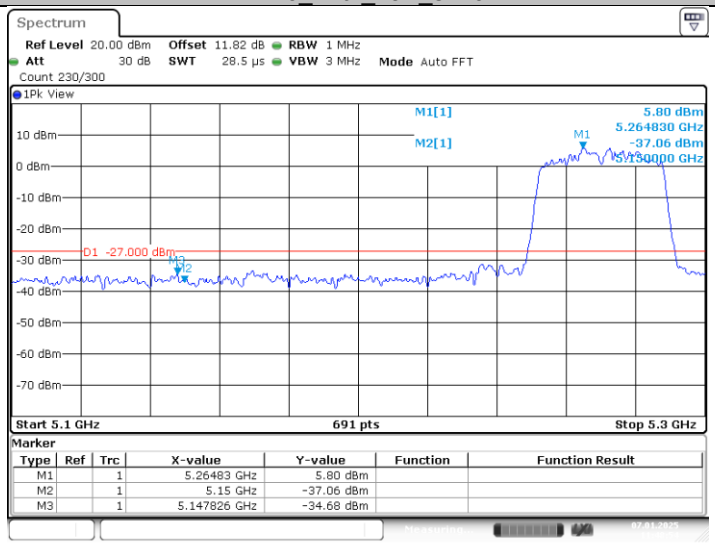
11N40_Ant1_Low_5190



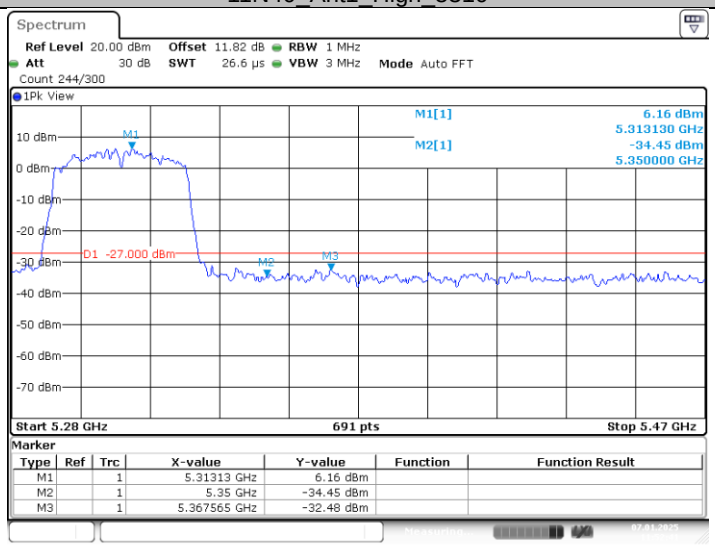
11N40_Ant1_High_5230



11N40_Ant1_Low_5270

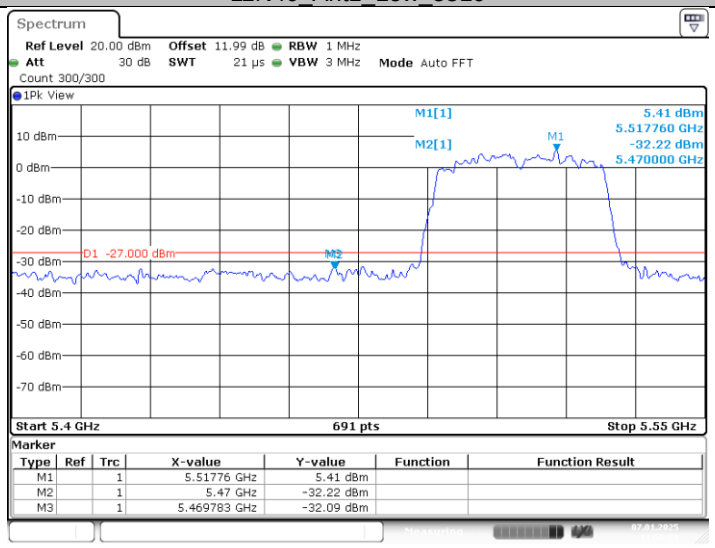


11N40_Ant1_High_5310



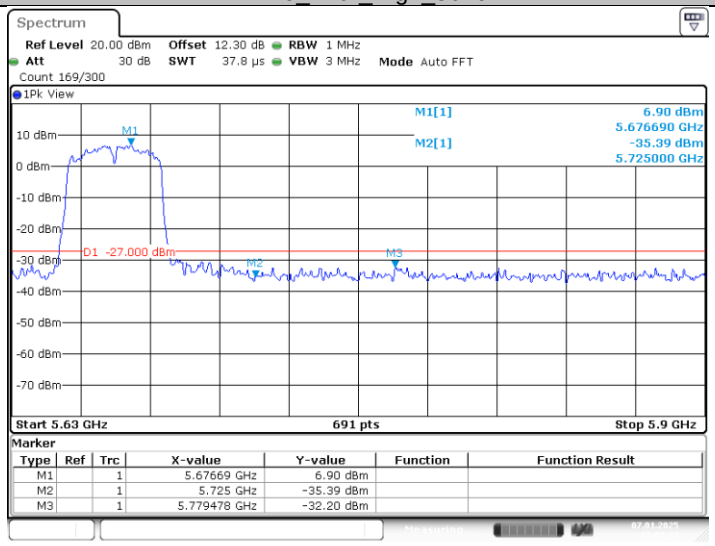
Date: 7.JAN.2025 11:52:41

11N40_Ant1_Low_5510



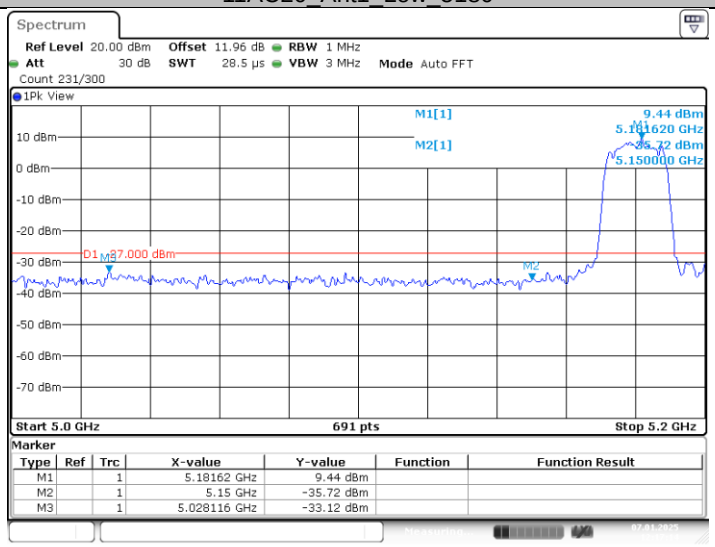
Date: 7.JAN.2025 11:56:24

11N40_Ant1_High_5670

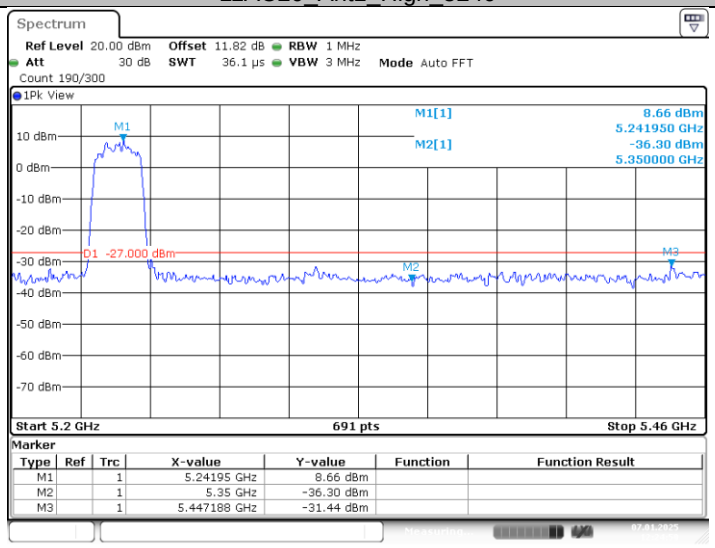


Date: 7.JAN.2025 12:03:33

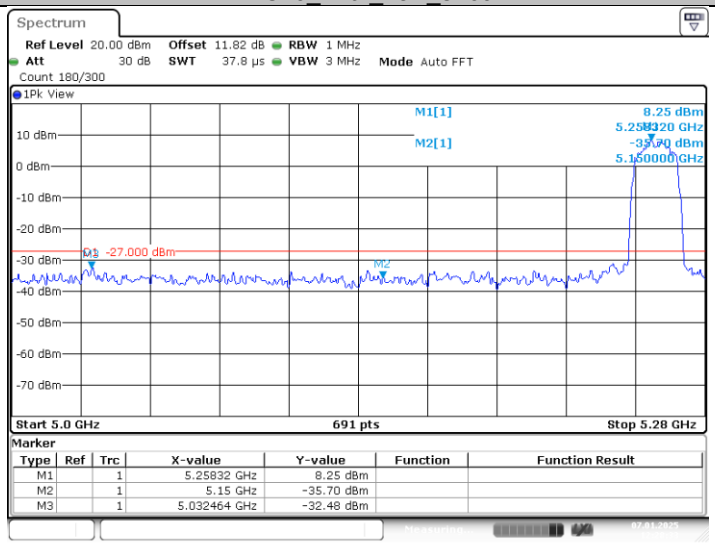
11AC20_Ant1_Low_5180



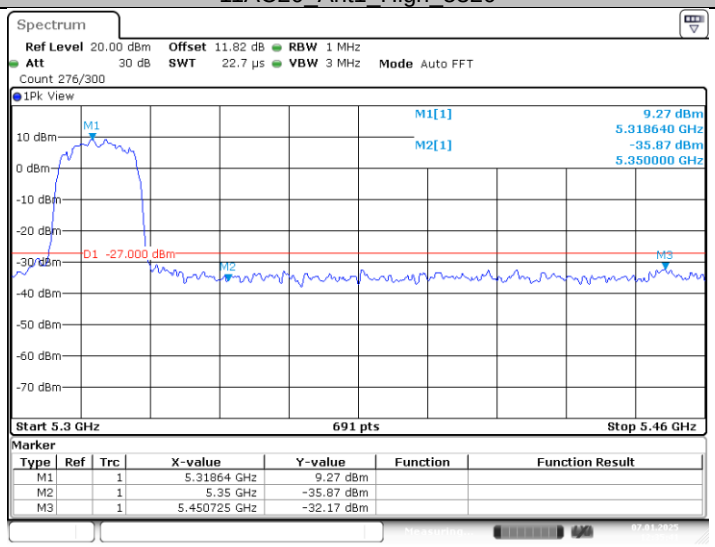
11AC20_Ant1_High_5240



11AC20_Ant1_Low_5260



11AC20_Ant1_High_5320

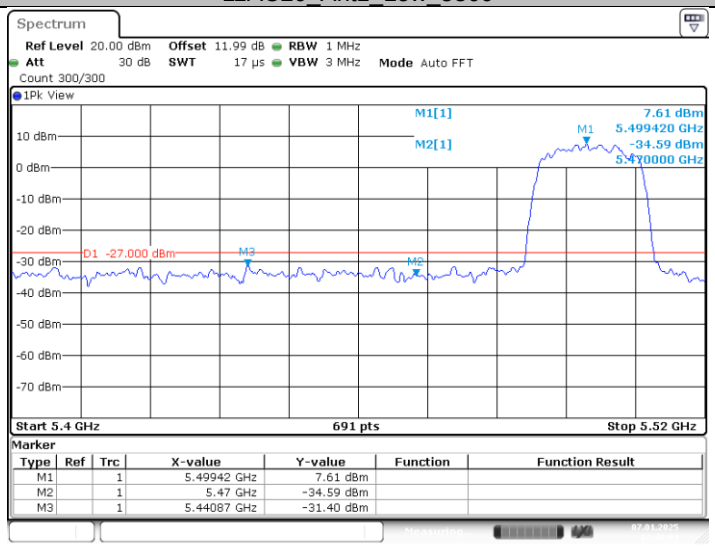


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.31864 GHz	9.27 dBm		
M2		1	5.35 GHz	-35.87 dBm		
M3		1	5.450725 GHz	-32.17 dBm		

Date: 7.JAN.2025 12:35:41

11AC20_Ant1_Low_5500



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.49942 GHz	7.61 dBm		
M2		1	5.47 GHz	-34.59 dBm		
M3		1	5.44087 GHz	-31.40 dBm		

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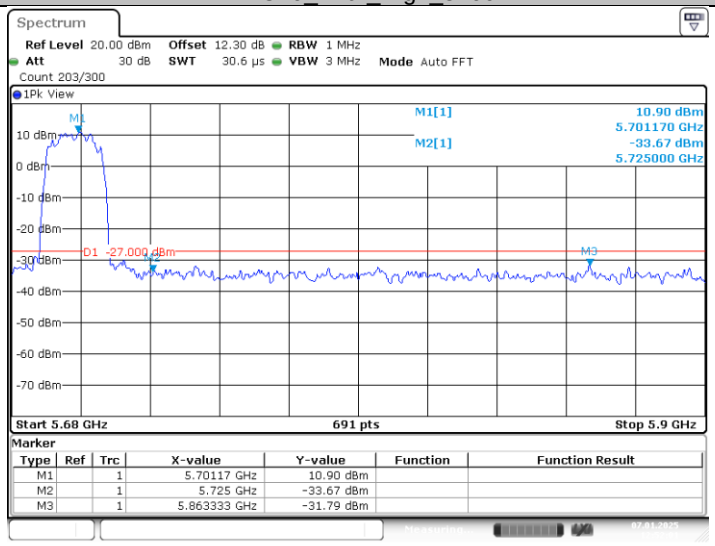
11AC20_Ant1_High_5700



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.70117 GHz	10.90 dBm		
M2		1	5.725 GHz	-33.67 dBm		
M3		1	5.863333 GHz	-31.79 dBm		

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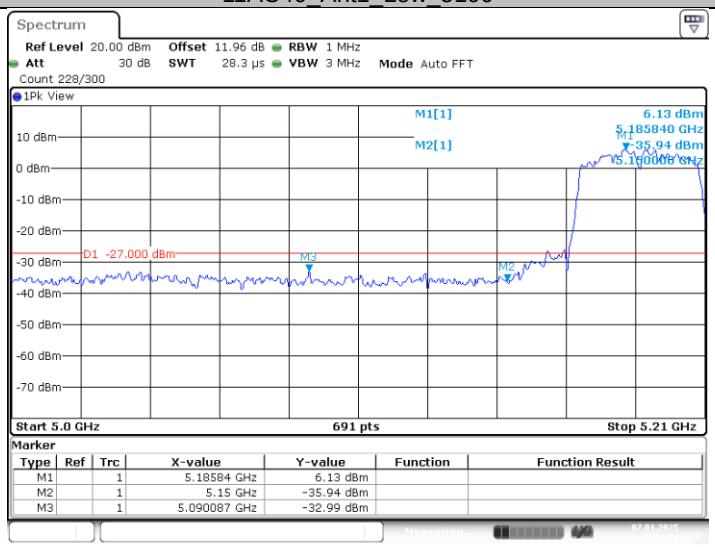
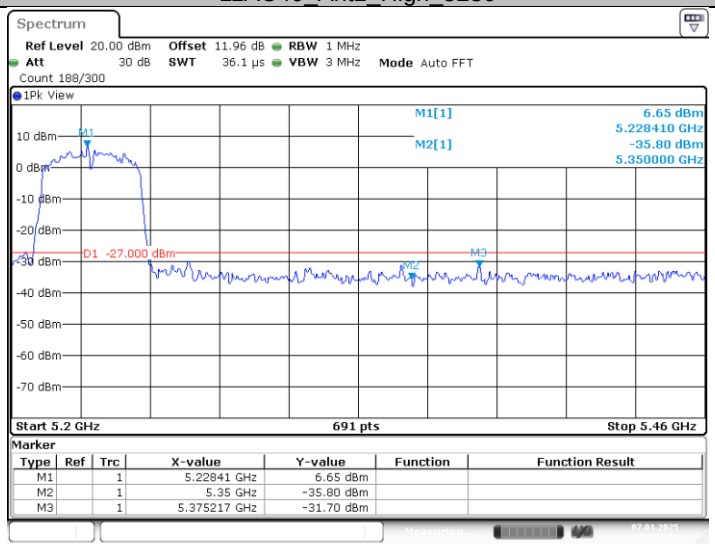
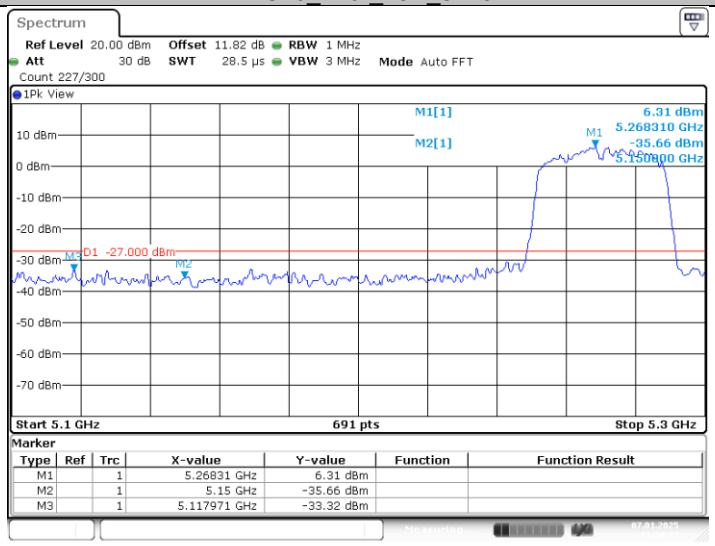
11AC40_Ant1_Low_5190



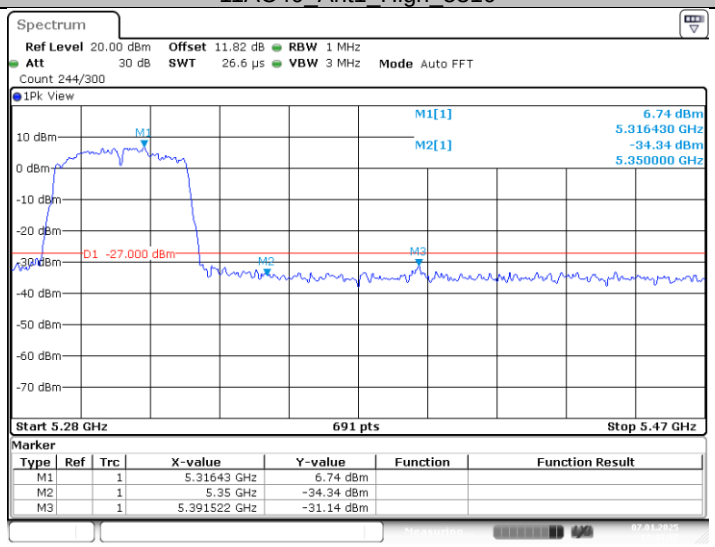
11AC40_Ant1_High_5230



11AC40_Ant1_Low_5270



11AC40_Ant1_High_5310



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.31643 GHz	6.74 dBm		
M2		1	5.35 GHz	-34.34 dBm		
M3		1	5.391522 GHz	-31.14 dBm		

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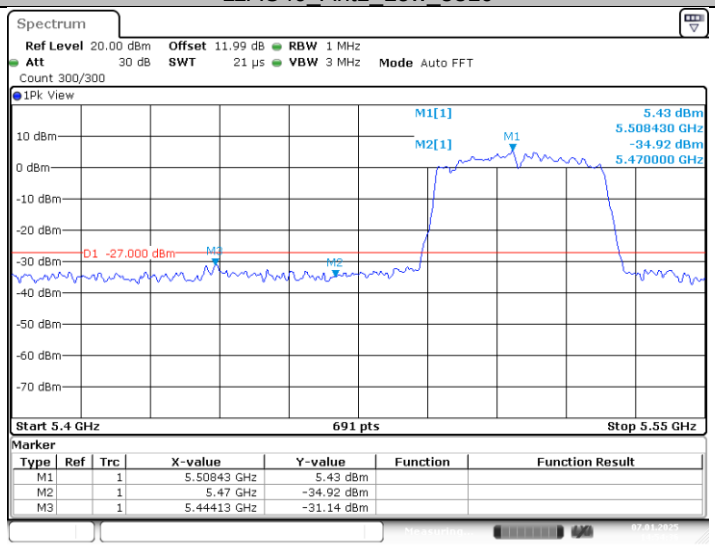
11AC40_Ant1_Low_5510



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.50843 GHz	5.43 dBm		
M2		1	5.47 GHz	-34.92 dBm		
M3		1	5.44413 GHz	-31.14 dBm		

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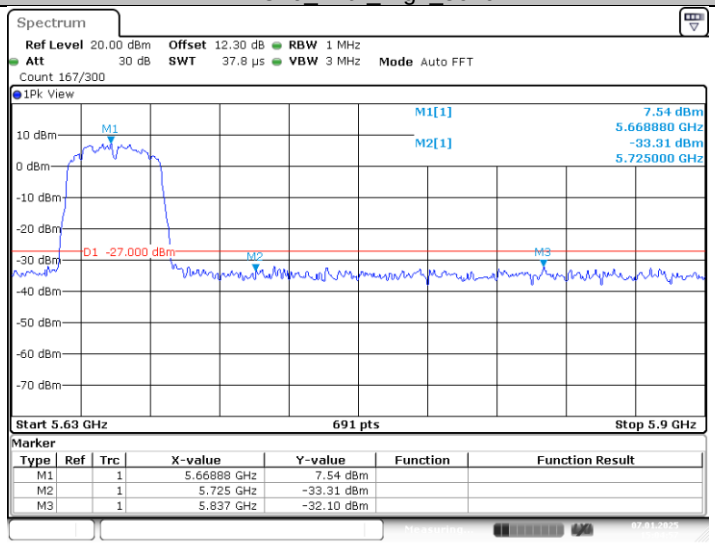
11AC40_Ant1_High_5670



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.66888 GHz	7.54 dBm		
M2		1	5.725 GHz	-33.31 dBm		
M3		1	5.837 GHz	-32.10 dBm		

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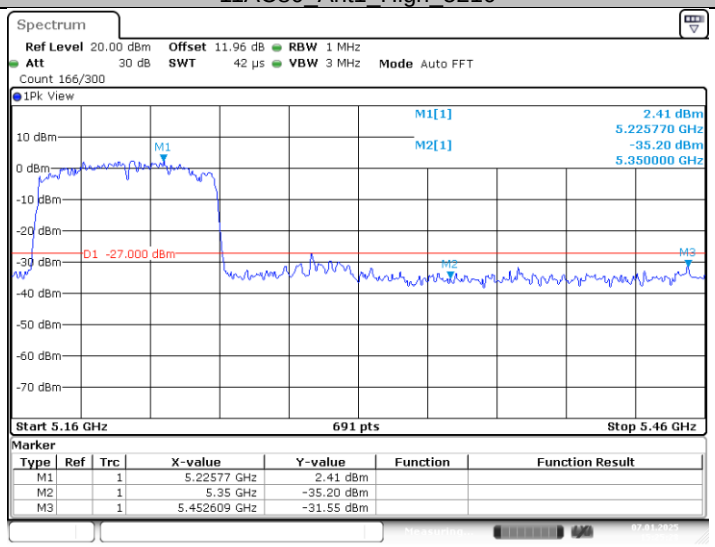
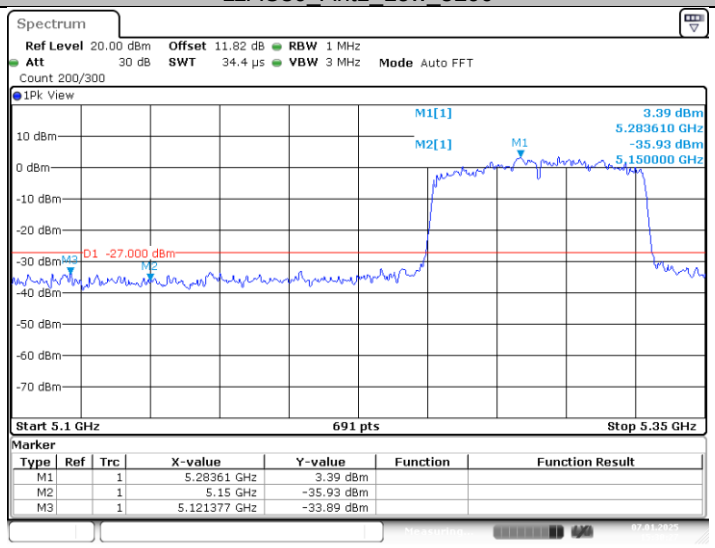
11AC80_Ant1_High_5210

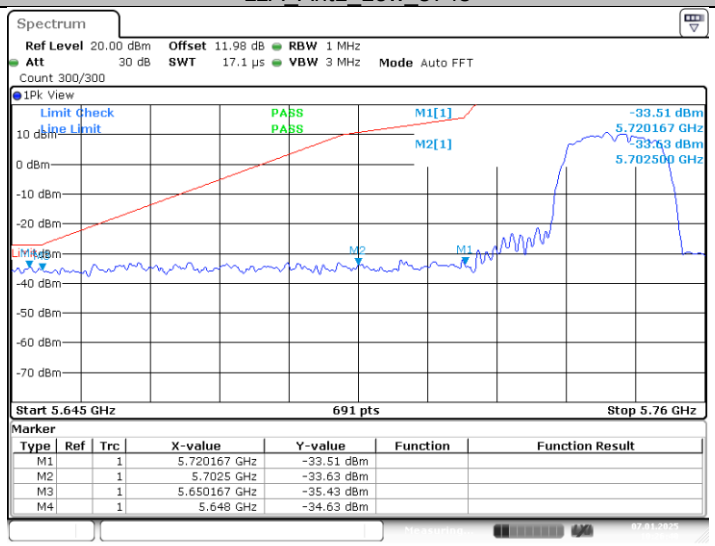


11AC80_Ant1_Low_5290

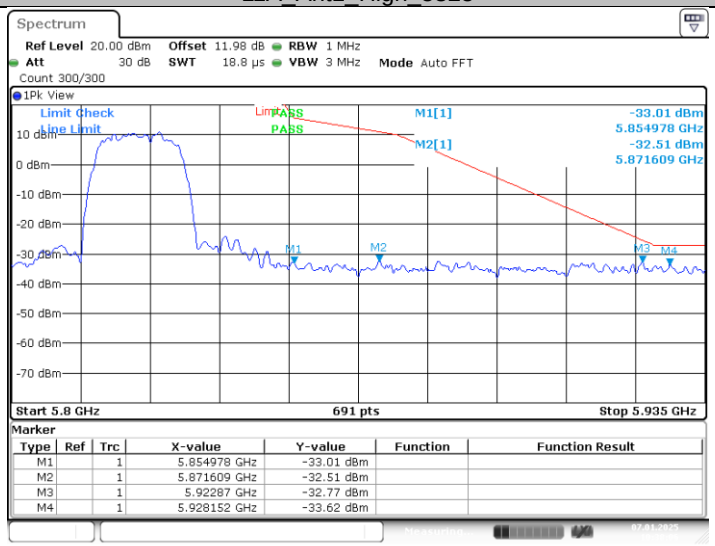


Test Graphs B4

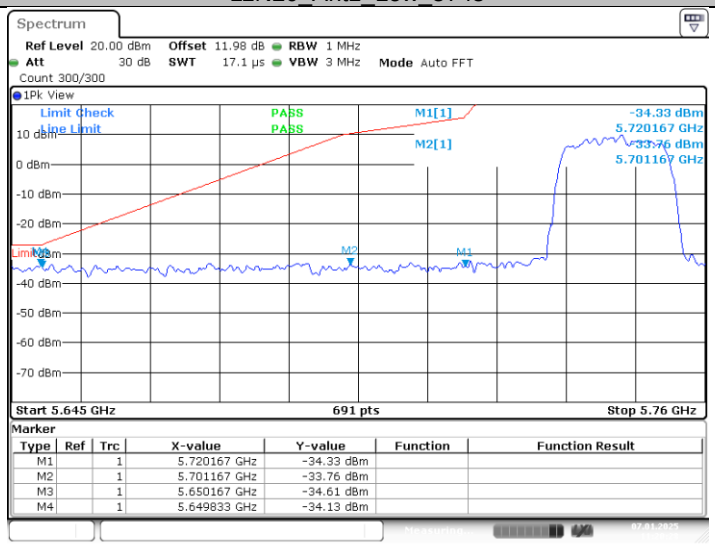
11A_Ant1_Low_5745



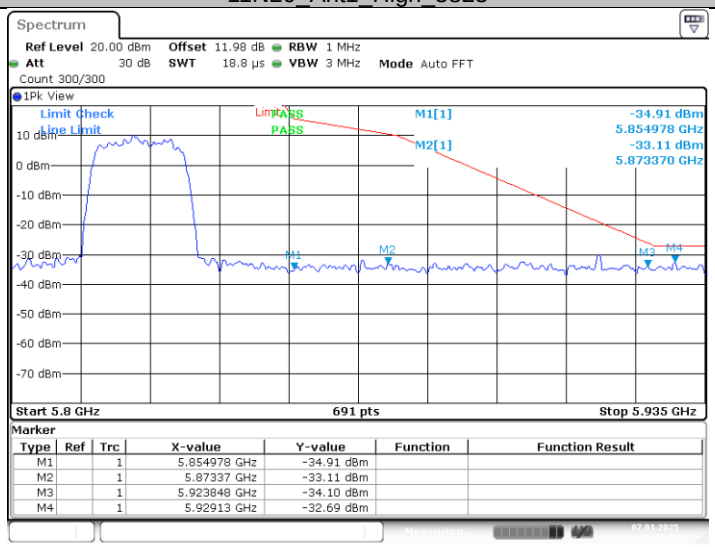
11A_Ant1_High_5825



11N20_Ant1_Low_5745



11N20_Ant1_High_5825



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.854978 GHz	-34.91 dBm		
M2		1	5.87337 GHz	-33.11 dBm		
M3		1	5.923848 GHz	-34.10 dBm		
M4		1	5.92913 GHz	-32.69 dBm		

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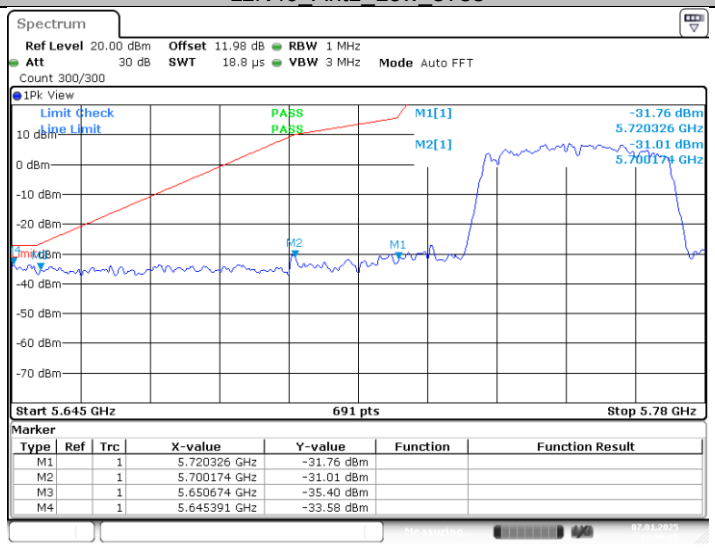
11N40_Ant1_Low_5755

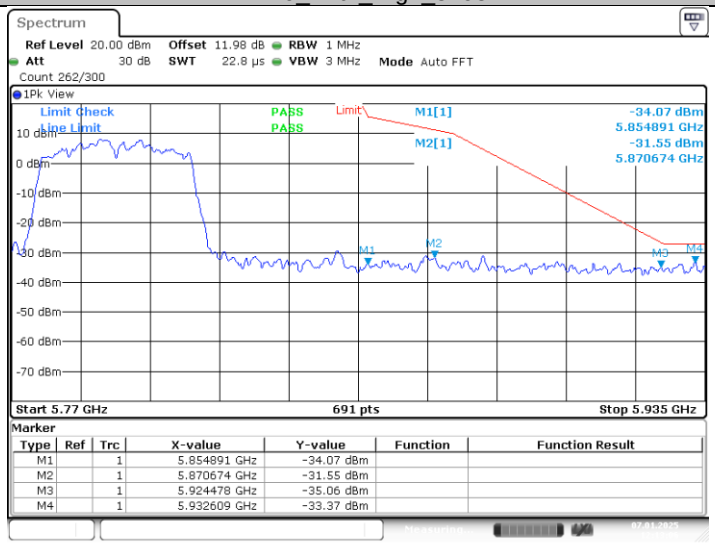


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.720326 GHz	-31.76 dBm		
M2		1	5.700174 GHz	-31.01 dBm		
M3		1	5.650674 GHz	-35.40 dBm		
M4		1	5.645391 GHz	-33.58 dBm		

Date: 7.JAN.2025 12:09:05

11N40_Ant1_High_5795

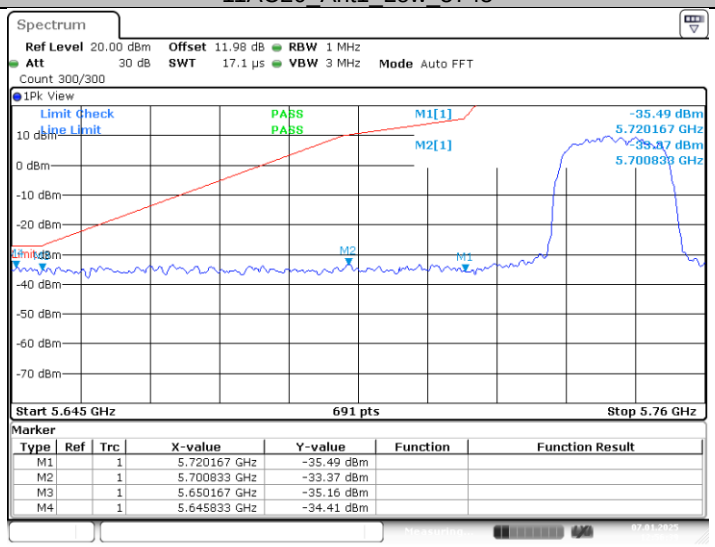


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.854891 GHz	-34.07 dBm		
M2		1	5.870674 GHz	-31.55 dBm		
M3		1	5.924478 GHz	-35.06 dBm		
M4		1	5.932609 GHz	-33.37 dBm		

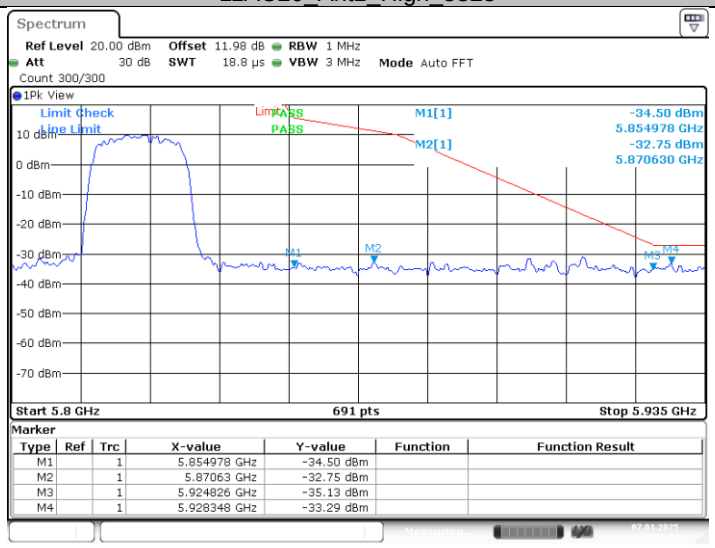
Date: 7.JAN.2025 12:13:06

11AC20_Ant1_Low_5745



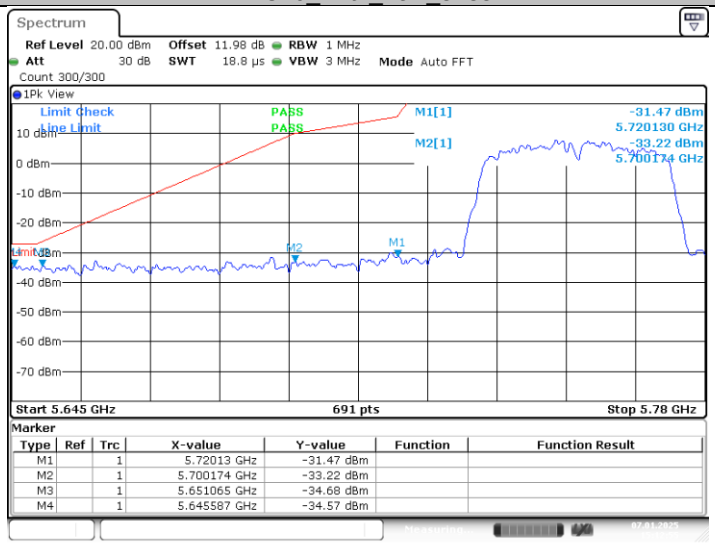
Date: 7.JAN.2025 12:56:39

11AC20_Ant1_High_5825



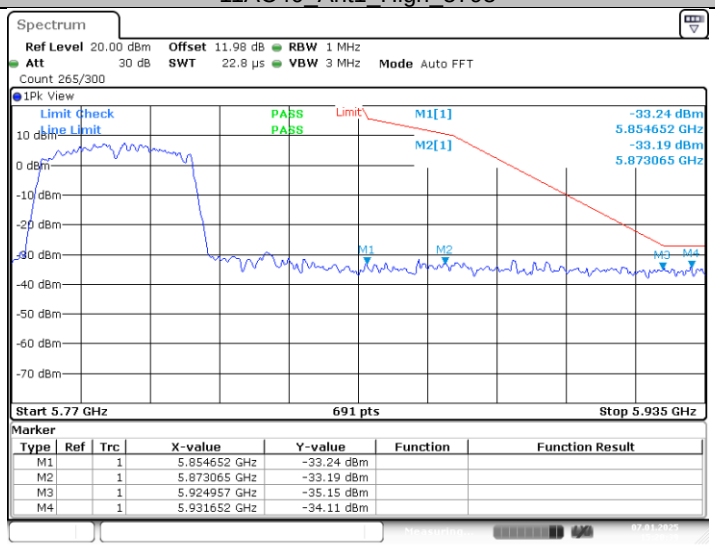
Date: 7.JAN.2025 13:08:35

11AC40_Ant1_Low_5755



Date: 7.JAN.2025 15:12:55

11AC40_Ant1_High_5795



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.854652 GHz	-33.24 dBm		
M2		1	5.873065 GHz	-33.19 dBm		
M3		1	5.924957 GHz	-35.15 dBm		
M4		1	5.931652 GHz	-34.11 dBm		

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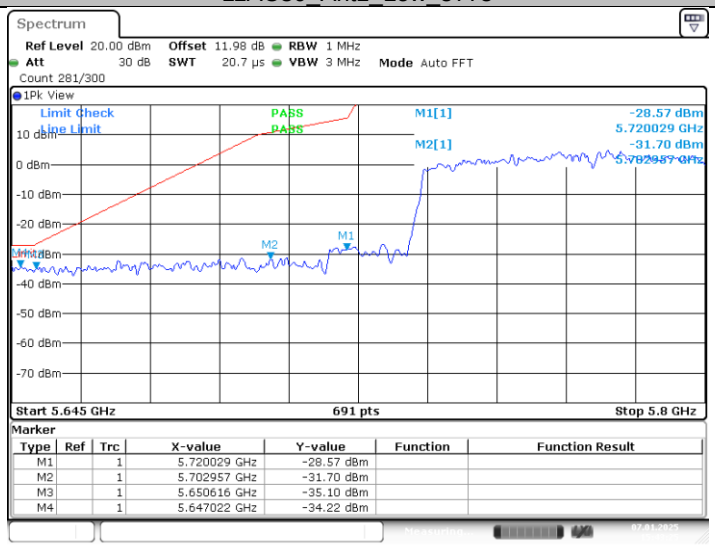
11AC80_Ant1_Low_5775

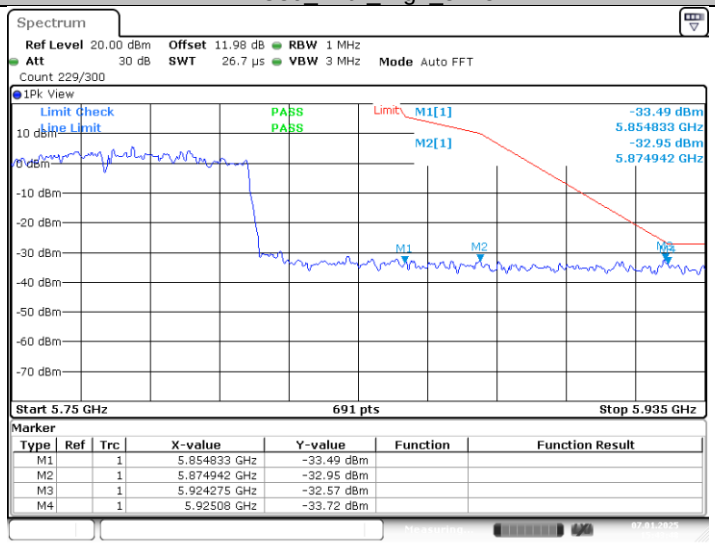


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.720029 GHz	-28.57 dBm		
M2		1	5.702957 GHz	-31.70 dBm		
M3		1	5.650616 GHz	-35.10 dBm		
M4		1	5.647022 GHz	-34.22 dBm		

Date: 7.JAN.2025 15:43:25

11AC80_Ant1_High_5775



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.854833 GHz	-33.49 dBm		
M2		1	5.874942 GHz	-32.95 dBm		
M3		1	5.924275 GHz	-32.57 dBm		
M4		1	5.92508 GHz	-33.72 dBm		

Date: 7.JAN.2025 15:43:48

ABOVE 1000 MHz

Note: All the modes have been tested and recorded worst mode in the report.

UNII-1

TX A Channel 36 / 5180 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10651	H	43.48	---	9.03	52.51	---	74	54	-21.49
15523	H	39.63	---	9.87	49.50	---	74	54	-24.50
---	H	---	---	---	---	---	---	---	---
10355	V	44.92	---	9.03	53.95	---	74	54	-20.05
15542	V	39.31	---	9.88	49.19	---	74	54	-24.81
---	V	---	---	---	---	---	---	---	---
TX A Channel 40 / 5200 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10601	H	44.72	---	9.09	53.81	---	74	54	-20.19
15600	H	42.01	---	9.91	51.92	---	74	54	-22.08
---	H	---	---	---	---	---	---	---	---
10601	V	44.05	---	9.09	53.14	---	74	54	-20.86
15600	V	41.85	---	9.91	51.76	---	74	54	-22.24
---	V	---	---	---	---	---	---	---	---
TX A Channel 48 / 5240 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10680	H	44.01	---	9.24	53.25	---	74	54	-20.75
15722	H	42.63	---	10.01	52.64	---	74	54	-21.36
---	H	---	---	---	---	---	---	---	---
10680	V	44.02	---	9.24	53.26	---	74	54	-20.74
15722	V	42.74	---	10.01	52.75	---	74	54	-21.25
---	V	---	---	---	---	---	---	---	---

UNII-2A

TX A Channel 52 / 5260 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10621	H	44.38	---	9.44	53.82	---	74	54	-20.18
15781	H	43.02	---	10.12	53.14	---	74	54	-20.86
---	H	---	---	---	---	---	---	---	---
10623	V	43.90	---	9.46	53.36	---	74	54	-20.64
15782	V	43.54	---	10.13	53.67	---	74	54	-20.33
---	V	---	---	---	---	---	---	---	---
TX A Channel 56 / 5280 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10661	H	43.53	---	9.51	53.04	---	74	54	-20.96
15842	H	43.11	---	10.51	53.62	---	74	54	-20.38
---	H	---	---	---	---	---	---	---	---
10661	V	43.74	---	9.51	53.25	---	74	54	-20.75
15841	V	43.36	---	10.49	53.85	---	74	54	-20.15
---	V	---	---	---	---	---	---	---	---
TX A Channel 64 / 5320 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10641	H	42.68	---	9.63	52.31	---	74	54	-21.69
15961	H	42.02	---	11.25	53.27	---	74	54	-20.73
---	H	---	---	---	---	---	---	---	---
10642	V	43.05	---	9.63	52.68	---	74	54	-21.32
15959	V	42.28	---	11.23	53.51	---	74	54	-20.49
---	V	---	---	---	---	---	---	---	---

UNII-2C

TX A Channel 100 / 5500 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10651	H	44.15	---	9.15	53.30	---	74	54	-20.70
15799	H	42.71	---	10.25	52.96	---	74	54	-21.04
---	H	---	---	---	---	---	---	---	---
10758	V	43.10	---	9.99	53.09	---	74	54	-20.91
15836	V	42.03	---	10.95	52.98	---	74	54	-21.02
---	V	---	---	---	---	---	---	---	---

TX A Channel 116 / 5580 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10793	H	41.35	---	10.01	51.36	---	74	54	-22.64
15902	H	41.41	---	10.79	52.20	---	74	54	-21.80
---	H	---	---	---	---	---	---	---	---
10963	V	43.93	---	10.05	53.98	---	74	54	-20.02
15991	V	40.41	---	11.93	52.34	---	74	54	-21.66
---	V	---	---	---	---	---	---	---	---

TX A Channel 140 / 5700 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10789	H	43.96	---	10.00	53.96	---	74	54	-20.04
16199	H	40.78	---	12.04	52.82	---	74	54	-21.18
---	H	---	---	---	---	---	---	---	---
10853	V	42.80	---	10.12	52.92	---	74	54	-21.08
16014	V	42.00	---	11.32	53.32	---	74	54	-20.68
---	V	---	---	---	---	---	---	---	---

UNII-3

TX A Channel 149 / 5745 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11491	H	43.35	---	9.81	53.16	---	74	54	-20.84
17736	H	40.72	---	12.96	53.68	---	74	54	-20.32
---	H	---	---	---	---	---	---	---	---
11493	V	42.73	---	9.81	52.54	---	74	54	-21.46
17735	V	40.40	---	12.95	53.35	---	74	54	-20.65
---	V	---	---	---	---	---	---	---	---

TX A Channel 153 / 5765 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11531	H	43.30	---	9.91	53.21	---	74	54	-20.79
17796	H	39.49	---	13.21	52.70	---	74	54	-21.30
---	H	---	---	---	---	---	---	---	---
11532	V	43.80	---	9.92	53.72	---	74	54	-20.28
17797	V	40.46	---	13.22	53.68	---	74	54	-20.32
---	V	---	---	---	---	---	---	---	---

TX A Channel 165/ 5825 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11651	H	43.75	---	10.01	53.76	---	74	54	-20.24
17878	H	39.07	---	14.01	53.08	---	74	54	-20.92
---	H	---	---	---	---	---	---	---	---
11649	V	42.85	---	9.98	52.83	---	74	54	-21.17
17777	V	39.51	---	13.99	53.50	---	74	54	-20.50
---	V	---	---	---	---	---	---	---	---

Notes:

1). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 40GHz (which is less) were made with an instrument using Peak detector mode.

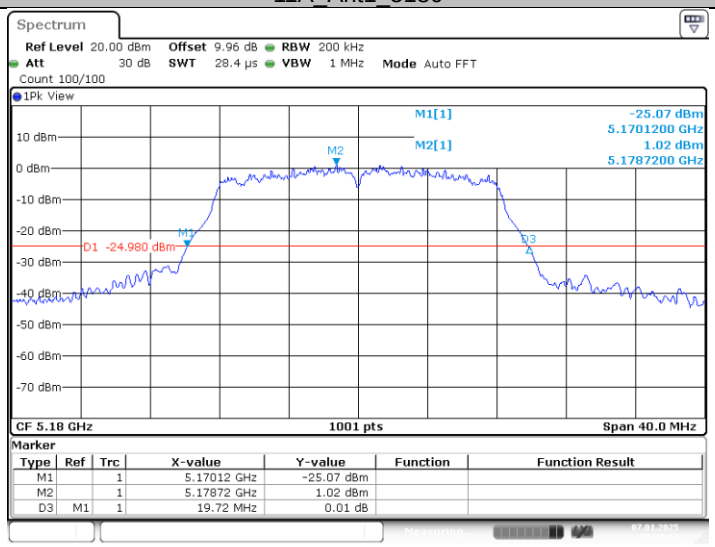
2). Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit

APPENDIX E - BANDWIDTH

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.72	5170.12	5189.84	---	---
		5200	19.88	5190.04	5209.92	---	---
		5240	19.84	5230.08	5249.92	---	---
		5260	19.76	5250.16	5269.92	---	---
		5300	19.96	5290.04	5310.00	---	---
		5320	19.92	5309.88	5329.80	---	---
		5500	19.96	5490.00	5509.96	---	---
		5600	19.76	5590.12	5609.88	---	---
		5700	19.64	5690.20	5709.84	---	---
		5745	19.76	5735.20	5754.96	---	---
		5785	19.88	5775.00	5794.88	---	---
		5825	20.00	5815.04	5835.04	---	---
11N20	Ant1	5180	19.80	5170.12	5189.92	---	---
		5200	19.92	5190.08	5210.00	---	---
		5240	19.96	5229.88	5249.84	---	---
		5260	20.04	5249.92	5269.96	---	---
		5300	20.00	5290.00	5310.00	---	---
		5320	19.80	5310.08	5329.88	---	---
		5500	20.04	5490.04	5510.08	---	---
		5600	20.04	5589.88	5609.92	---	---
		5700	19.80	5690.12	5709.92	---	---
		5745	19.92	5734.92	5754.84	---	---
		5785	20.00	5774.92	5794.92	---	---
		5825	19.88	5814.96	5834.84	---	---
11N40	Ant1	5190	40.88	5169.68	5210.56	---	---
		5230	40.48	5209.76	5250.24	---	---
		5270	39.84	5250.00	5289.84	---	---
		5310	40.08	5290.16	5330.24	---	---
		5510	41.04	5489.60	5530.64	---	---
		5590	39.84	5570.08	5609.92	---	---
		5670	40.64	5649.76	5690.40	---	---
		5755	40.48	5734.52	5775.00	---	---
		5795	40.16	5774.92	5815.08	---	---
11AC20	Ant1	5180	19.80	5170.16	5189.96	---	---
		5200	20.12	5189.96	5210.08	---	---
		5240	20.12	5229.96	5250.08	---	---
		5260	19.96	5250.08	5270.04	---	---
		5300	19.92	5290.12	5310.04	---	---
		5320	20.00	5309.96	5329.96	---	---
		5500	20.00	5490.04	5510.04	---	---
		5600	20.08	5589.92	5610.00	---	---
		5700	19.88	5690.16	5710.04	---	---
		5745	19.84	5735.16	5755.00	---	---
		5785	20.04	5775.00	5795.04	---	---
		5825	19.92	5815.00	5834.92	---	---
11AC40	Ant1	5190	39.92	5170.40	5210.32	---	---
		5230	40.08	5209.92	5250.00	---	---
		5270	40.32	5250.00	5290.32	---	---
		5310	40.40	5289.60	5330.00	---	---
		5510	40.72	5489.92	5530.64	---	---
		5590	39.92	5570.08	5610.00	---	---
		5670	39.92	5650.08	5690.00	---	---
		5755	40.32	5734.84	5775.16	---	---
		5795	40.24	5775.24	5815.48	---	---
11AC80	Ant1	5210	80.64	5170.00	5250.64	---	---
		5290	80.80	5250.00	5330.80	---	---
		5530	80.80	5489.20	5570.00	---	---
		5610	80.80	5570.00	5650.80	---	---
		5775	80.80	5735.00	5815.80	---	---

11A_Ant1_5180



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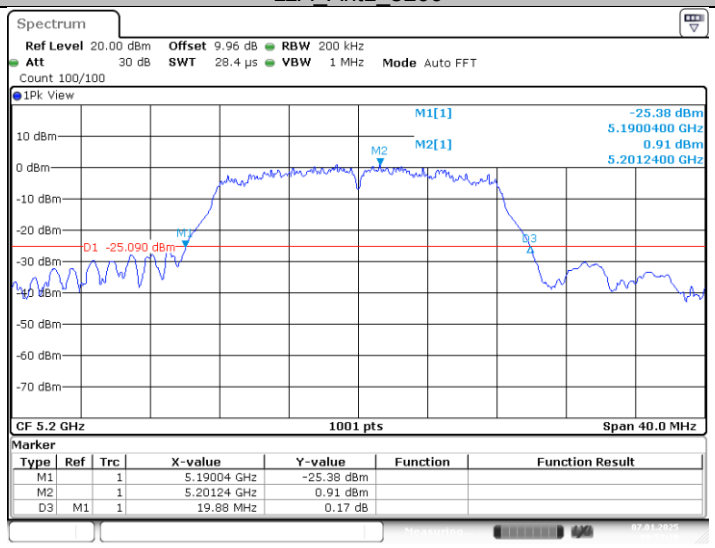

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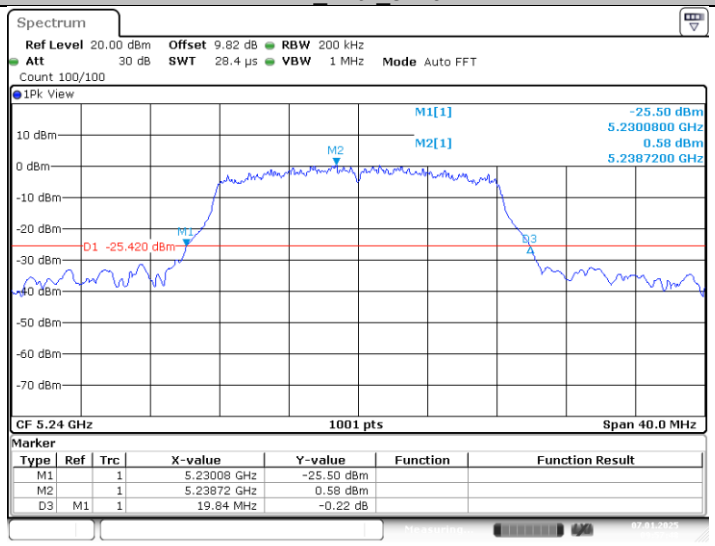

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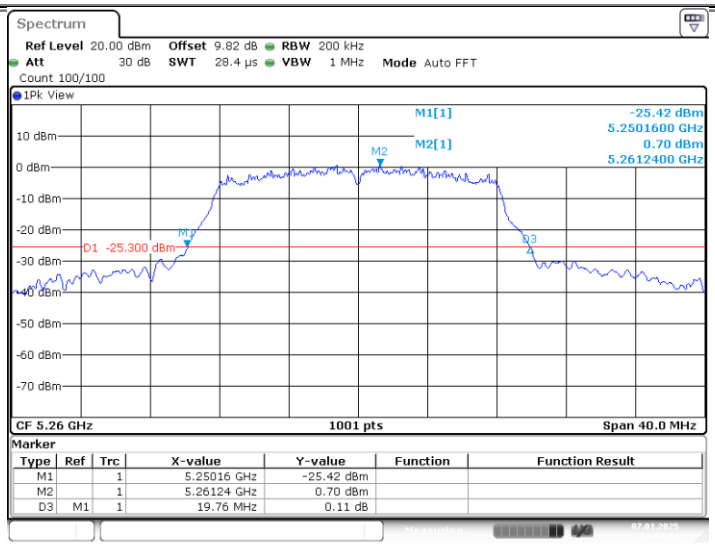

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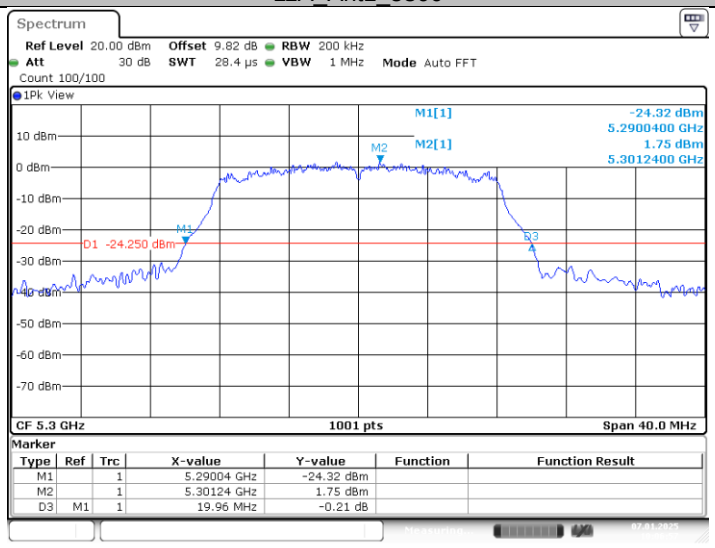

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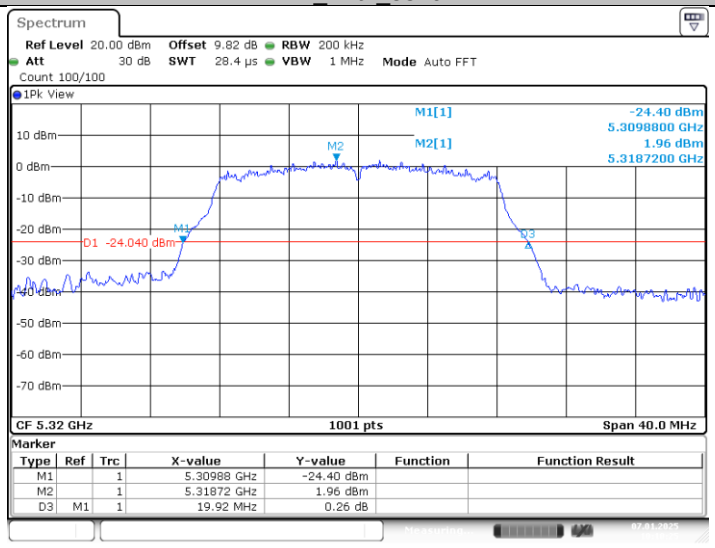

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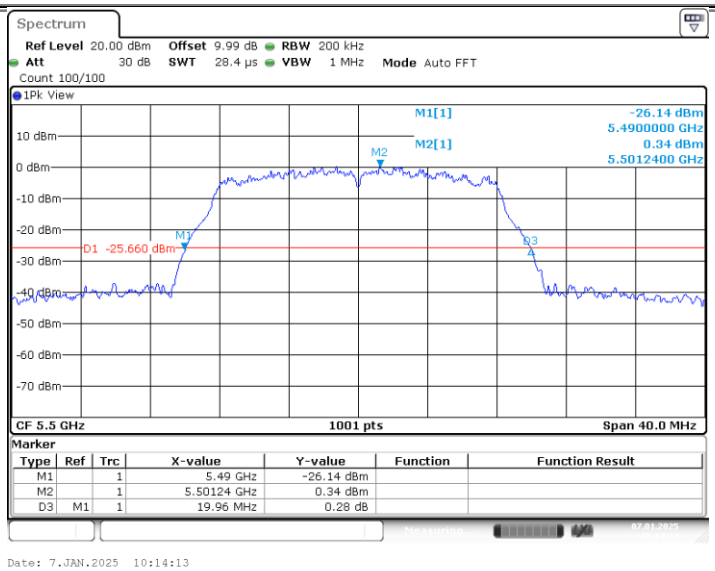

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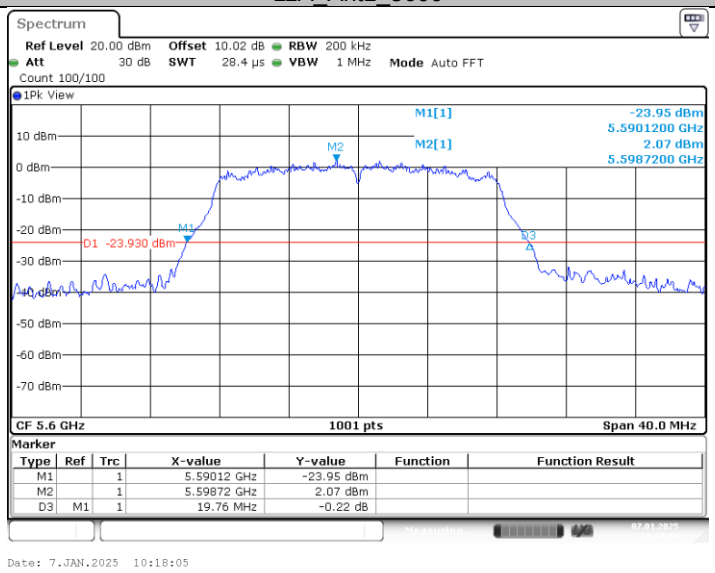

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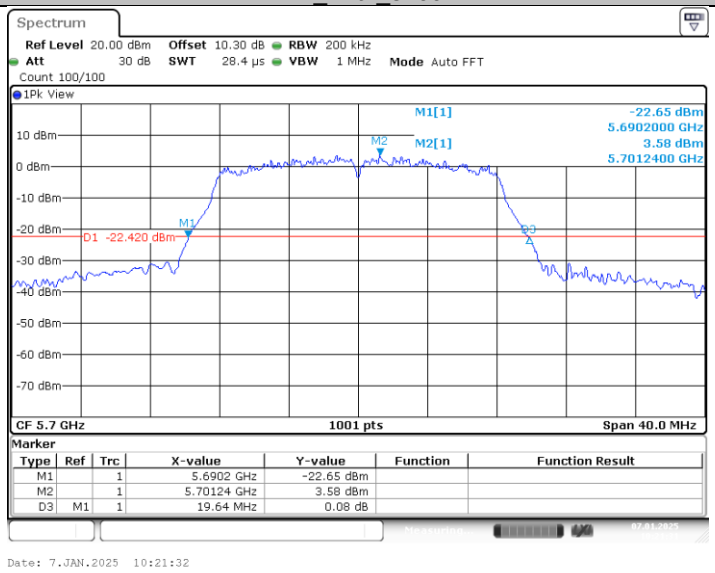

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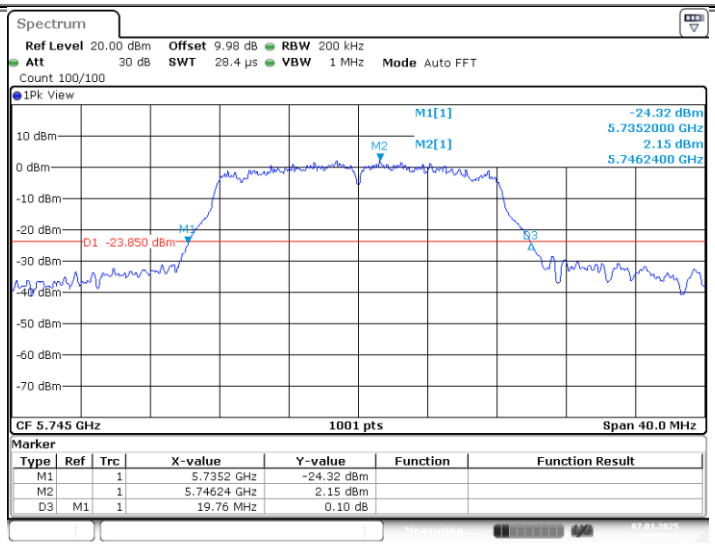

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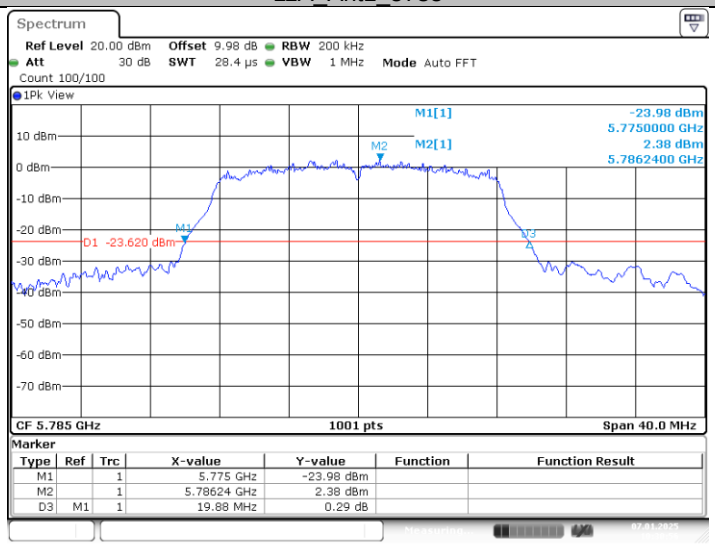

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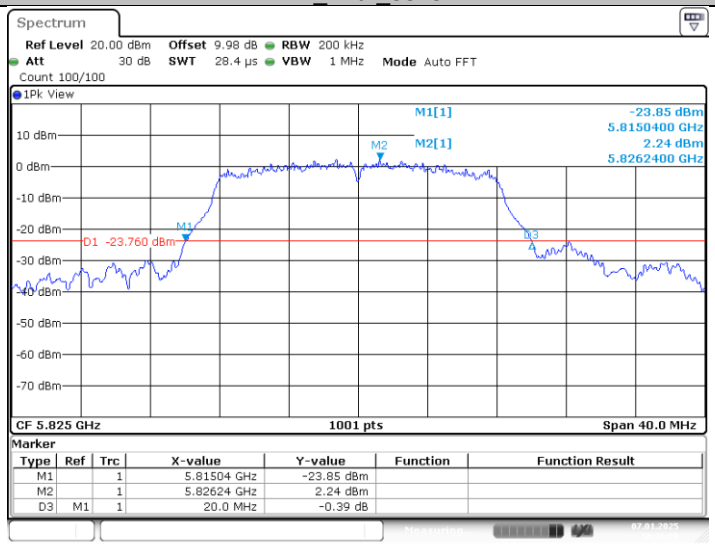

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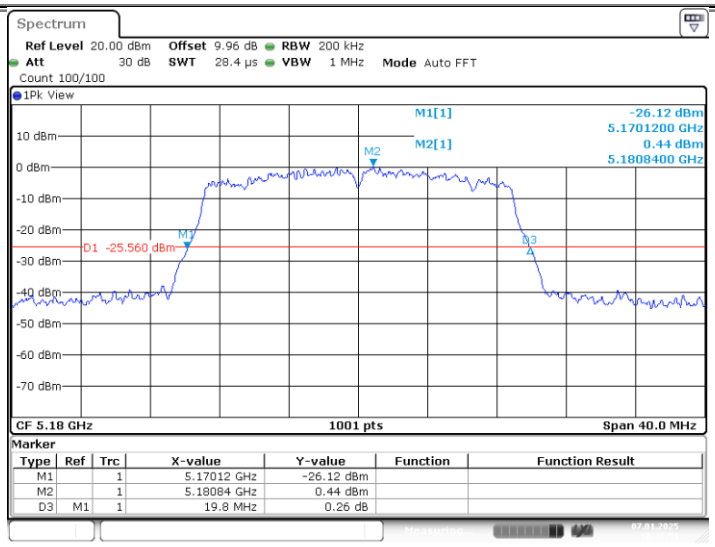

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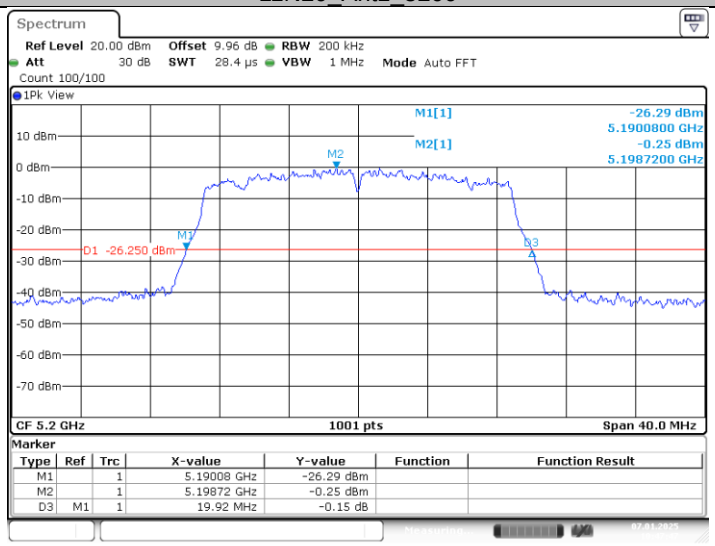

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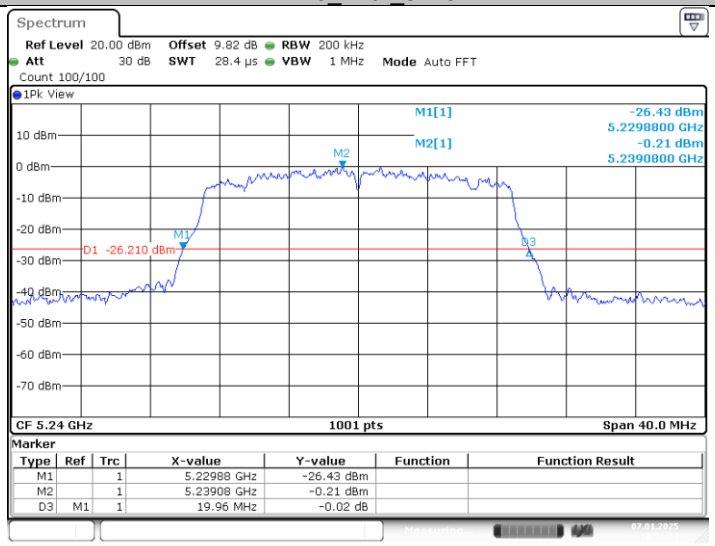

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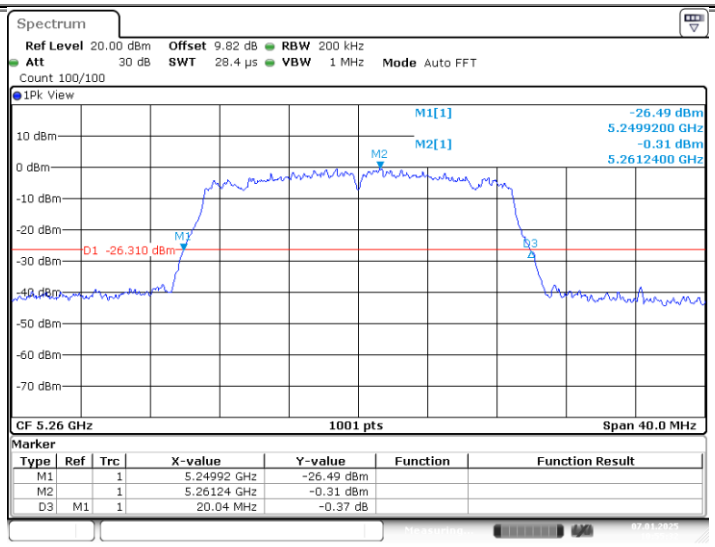

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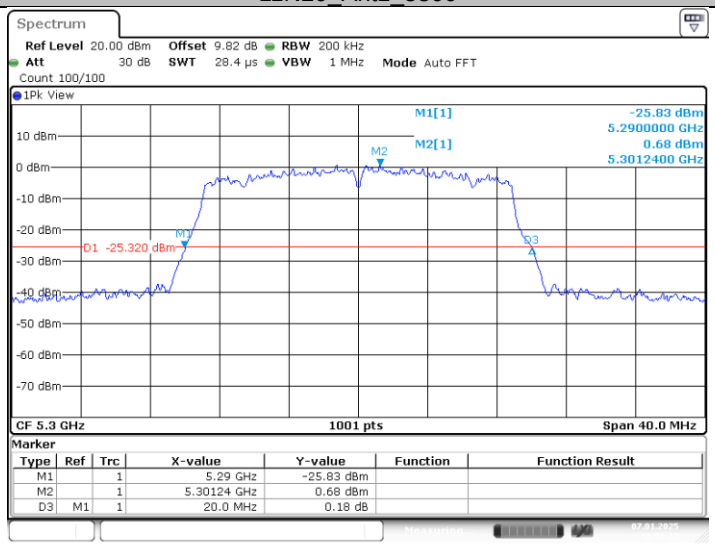

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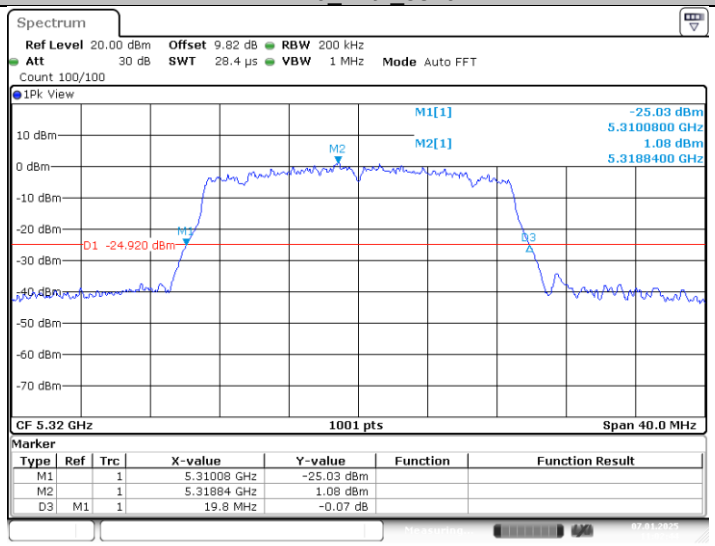

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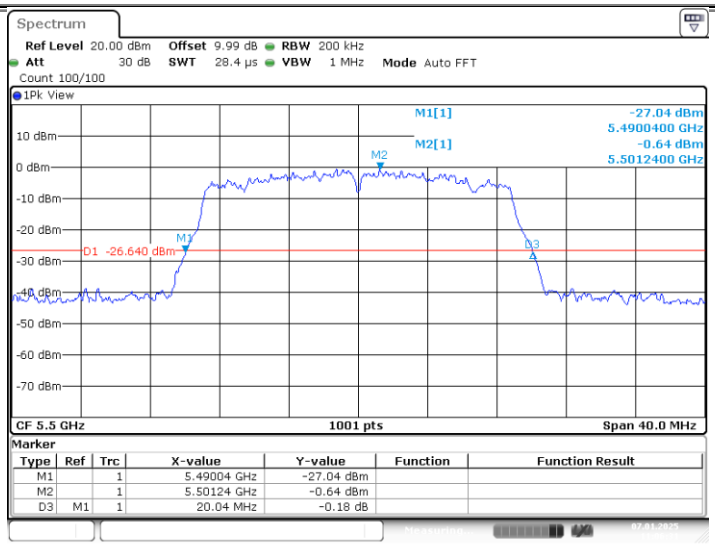

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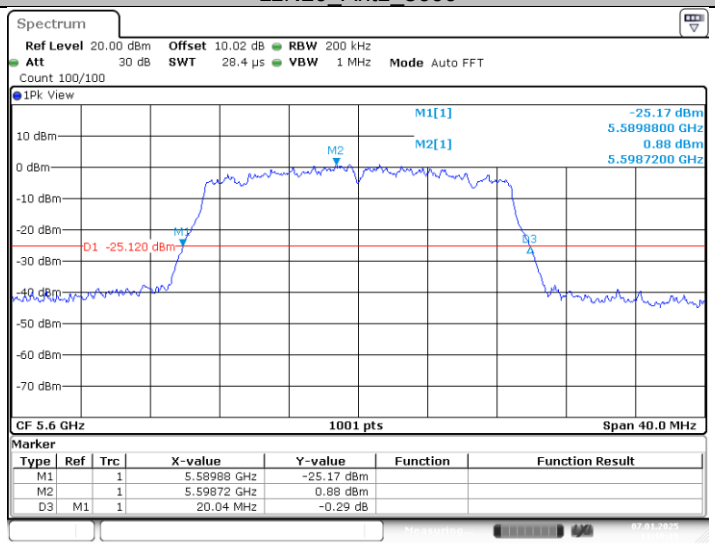

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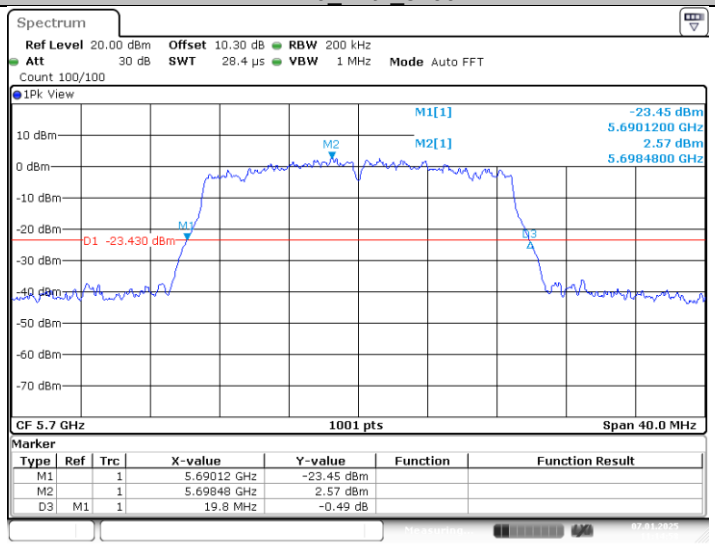

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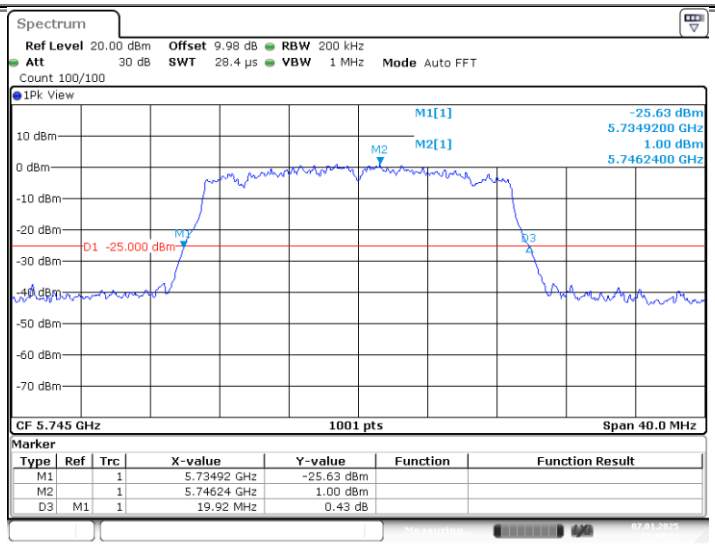

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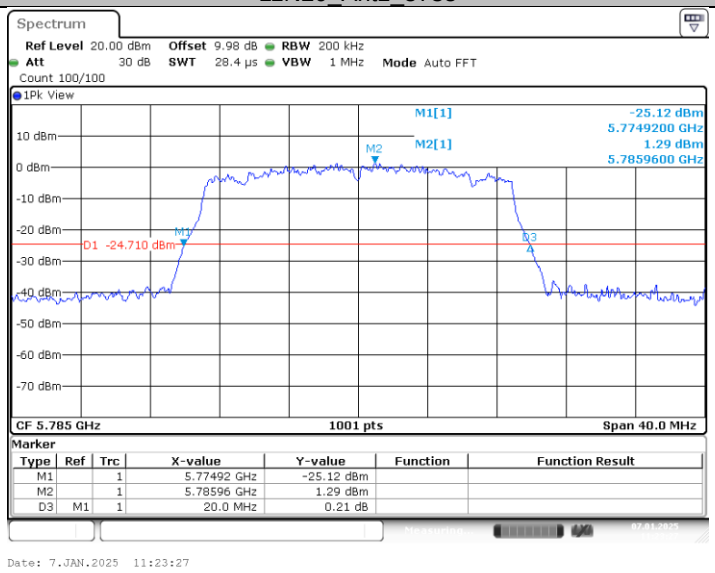

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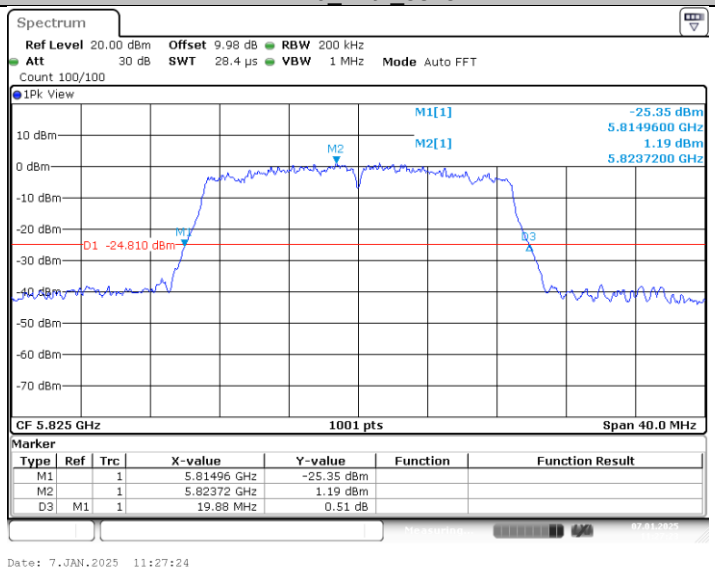

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