

WLAN ac-Mode; 40 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0 dB

U-NII-Band	Meas. Method	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
1	Conducted	5190	5150.0	70.4	PEAK	1000	74.0	3.6	BE-RB
1	Conducted	5190	5150.0	52.6	AV	1000	54.0	1.4	BE-RB
2A	Conducted	5270	5350.0	69.5	PEAK	1000	74.0	4.5	BE-RB
2A	Conducted	5270	5350.0	48.4	AV	1000	54.0	5.6	BE-RB
2A	Conducted	5310	5350.0	68.3	PEAK	1000	74.0	5.7	BE-RB
2A	Conducted	5310	5350.0	52.5	AV	1000	54.0	1.5	BE-RB
2A	Conducted	5270	5350.0	69.5	PEAK	1000	74.0	4.5	BE-RB
2A	Conducted	5270	5350.0	48.4	AV	1000	54.0	5.6	BE-RB
2A	Conducted	5310	5350.0	68.3	PEAK	1000	74.0	5.7	BE-RB
2A	Conducted	5310	5350.0	52.5	AV	1000	54.0	1.5	BE-RB
2C	Conducted	5510	5460.0	60.7	PEAK	1000	74.0	13.3	BE-RB
2C	Conducted	5510	5460.0	45.9	AV	1000	54.0	8.1	BE-RB
2C	Conducted	5510	5470.0	66.0	PEAK	1000	68.2	2.2	BE-UE
2C	Conducted	5550	5460.0	62.0	PEAK	1000	74.0	12.0	BE-RB
2C	Conducted	5550	5460.0	43.9	AV	1000	54.0	10.1	BE-RB
2C	Conducted	5550	5470.0	63.5	PEAK	1000	68.2	4.7	BE-UE
2C	Conducted	5670	5725.0	63.2	PEAK	1000	68.2	5.0	BE-UE
3	Conducted	5755	5725.0	86.5	PEAK	1000	122.2	35.7	BE-UE
4	Conducted	5875	5895.0	77.6	PEAK	1000	110.2	32.6	BE-UE
3	Conducted	5795	5850.0	75.3	PEAK	1000	122.2	46.9	BE-UE
4	Conducted	5875	5895.0	77.6	PEAK	1000	90.2	12.6	BE-UE

WLAN ac-Mode; 80 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0.1 dB

U-NII-Band	Meas. Method	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
1	Conducted	5210	5150.0	65.4	PEAK	1000	74.0	8.6	BE-RB
1	Conducted	5210	5150.0	49.9	AV	1000	54.0	4.1	BE-RB
2A	Conducted	5290	5350.0	68.9	PEAK	1000	74.0	5.1	BE-RB
2A	Conducted	5290	5350.0	51.3	AV	1000	54.0	2.7	BE-RB
2A	Conducted	5290	5350.0	68.9	PEAK	1000	74.0	5.1	BE-RB
2A	Conducted	5290	5350.0	51.3	AV	1000	54.0	2.7	BE-RB
2C	Conducted	5530	5460.0	64.6	PEAK	1000	74.0	9.4	BE-RB
2C	Conducted	5530	5460.0	50.8	AV	1000	54.0	3.2	BE-RB
2C	Conducted	5530	5470.0	65.0	PEAK	1000	68.2	3.2	BE-UE
2C	Conducted	5530	5725.0	54.9	PEAK	1000	68.2	13.3	BE-UE
3	Conducted	5775	5725.0	75.0	PEAK	1000	122.2	47.2	BE-UE
3	Conducted	5775	5850.0	71.1	PEAK	1000	122.2	51.1	BE-UE
4	Conducted	5855	5895.0	76.0	PEAK	1000	110.2	34.2	BE-UE
4	Conducted	5855	5895.0	76.0	PEAK	1000	90.2	14.2	BE-UE

WLAN ax-Mode; 20 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0 dB

U- NII- Band	Meas. Method	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/ m]	Detec- tor	RBW [kHz]	Limit [dBμV/ m]	Margin [dB]	Limit Type
1	Conducted	5180	5150.0	63.4	PEAK	1000	74.0	10.6	BE-RB
1	Conducted	5180	5150.0	46.7	AV	1000	54.0	7.3	BE-RB
2A	Conducted	5300	5350.0	62.4	PEAK	1000	74.0	11.6	BE-RB
2A	Conducted	5300	5350.0	46.3	AV	1000	54.0	7.7	BE-RB
2A	Conducted	5320	5350.0	65.6	PEAK	1000	74.0	8.4	BE-RB
2A	Conducted	5320	5350.0	48.5	AV	1000	54.0	5.5	BE-RB
2C	Conducted	5500	5460.0	65.9	PEAK	1000	74.0	8.1	BE-RB
2C	Conducted	5500	5460.0	45.0	AV	1000	54.0	9.0	BE-RB
2C	Conducted	5500	5470.0	64.6	PEAK	1000	68.2	3.6	BE-UE
2C	Conducted	5520	5460.0	64.6	PEAK	1000	74.0	9.4	BE-RB
2C	Conducted	5520	5460.0	46.0	AV	1000	54.0	8.0	BE-RB
2C	Conducted	5520	5470.0	67.9	PEAK	1000	68.2	0.3	BE-UE
2C	Conducted	5540	5460.0	64.7	PEAK	1000	74.0	9.3	BE-RB
2C	Conducted	5540	5460.0	47.1	AV	1000	54.0	6.9	BE-RB
2C	Conducted	5540	5470.0	66.0	PEAK	1000	68.2	2.2	BE-UE
2C	Conducted	5660	5725.0	63.8	PEAK	1000	68.2	4.4	BE-UE
2C	Conducted	5680	5725.0	65.8	PEAK	1000	68.2	2.4	BE-UE
2C	Conducted	5700	5725.0	64.4	PEAK	1000	68.2	3.8	BE-UE
3	Conducted	5745	5725.0	86.2	PEAK	1000	122.2	36.0	BE-UE
4	Conducted	5885	5895.0	88.2	PEAK	1000	110.2	22.0	BE-UE
3	Conducted	5825	5850.0	83.7	PEAK	1000	122.2	38.5	BE-UE
4	Conducted	5885	5895.0	88.2	PEAK	1000	90.2	2.0	BE-UE

WLAN ax-Mode; 40 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0 dB

U-NII-Band	Meas. Method	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
1	Conducted	5190	5150.0	66.8	PEAK	1000	74.0	7.2	BE-RB
1	Conducted	5190	5150.0	51.4	AV	1000	54.0	2.6	BE-RB
1	Conducted	5230	5150.0	57.1	PEAK	1000	74.0	16.9	BE-RB
1	Conducted	5230	5150.0	44.5	AV	1000	54.0	9.5	BE-RB
2A	Conducted	5270	5350.0	66.5	PEAK	1000	74.0	7.5	BE-RB
2A	Conducted	5270	5350.0	48.1	AV	1000	54.0	5.9	BE-RB
2A	Conducted	5310	5350.0	70.6	PEAK	1000	74.0	3.4	BE-RB
2A	Conducted	5310	5350.0	53.4	AV	1000	54.0	0.6	BE-RB
2A	Conducted	5270	5350.0	66.5	PEAK	1000	74.0	7.5	BE-RB
2A	Conducted	5270	5350.0	48.1	AV	1000	54.0	5.9	BE-RB
2A	Conducted	5310	5350.0	70.6	PEAK	1000	74.0	3.4	BE-RB
2A	Conducted	5310	5350.0	53.4	AV	1000	54.0	0.6	BE-RB
2C	Conducted	5510	5460.0	61.6	PEAK	1000	74.0	12.4	BE-RB
2C	Conducted	5510	5460.0	47.3	AV	1000	54.0	6.7	BE-RB
2C	Conducted	5510	5470.0	66.1	PEAK	1000	68.2	2.1	BE-UE
2C	Conducted	5550	5460.0	61.5	PEAK	1000	74.0	12.5	BE-RB
2C	Conducted	5550	5460.0	44.2	AV	1000	54.0	9.8	BE-RB
2C	Conducted	5550	5470.0	64.6	PEAK	1000	68.2	3.6	BE-UE
2C	Conducted	5670	5725.0	60.9	PEAK	1000	68.2	7.3	BE-UE
3	Conducted	5755	5725.0	86.8	PEAK	1000	122.2	35.4	BE-UE
4	Conducted	5875	5895.0	82.1	PEAK	1000	110.2	28.1	BE-UE
3	Conducted	5795	5850.0	75.6	PEAK	1000	122.2	46.6	BE-UE
4	Conducted	5875	5895.0	82.1	PEAK	1000	90.2	8.1	BE-UE

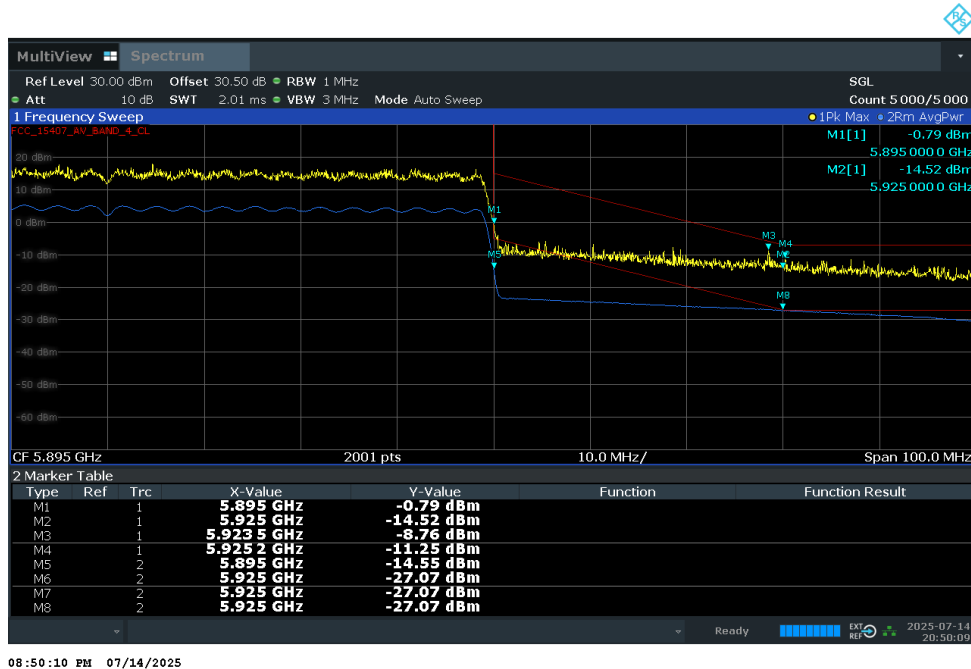
WLAN ax-Mode; 80 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0.1 dB

U-NII-Band	Meas. Method	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
1	Conducted	5210	5150.0	65.7	PEAK	1000	74.0	8.3	BE-RB
1	Conducted	5210	5150.0	50.5	AV	1000	54.0	3.5	BE-RB
2A	Conducted	5290	5350.0	65.8	PEAK	1000	74.0	8.2	BE-RB
2A	Conducted	5290	5350.0	51.9	AV	1000	54.0	2.1	BE-RB
2A	Conducted	5290	5350.0	65.8	PEAK	1000	74.0	8.2	BE-RB
2A	Conducted	5290	5350.0	51.9	AV	1000	54.0	2.1	BE-RB
2C	Conducted	5530	5460.0	66.6	PEAK	1000	74.0	7.4	BE-RB
2C	Conducted	5530	5460.0	51.5	AV	1000	54.0	2.5	BE-RB
2C	Conducted	5530	5470.0	65.8	PEAK	1000	68.2	2.4	BE-UE
2C	Conducted	5530	5725.0	54.6	PEAK	1000	68.2	13.6	BE-UE
3	Conducted	5775	5725.0	74.8	PEAK	1000	122.2	47.4	BE-UE
3	Conducted	5775	5850.0	71.4	PEAK	1000	122.2	50.8	BE-UE
4	Conducted	5855	5895.0	80.7	PEAK	1000	110.2	29.5	BE-UE
4	Conducted	5855	5895.0	80.7	PEAK	1000	90.2	9.5	BE-UE

Remark: Please see next sub-clause for the measurement plot.

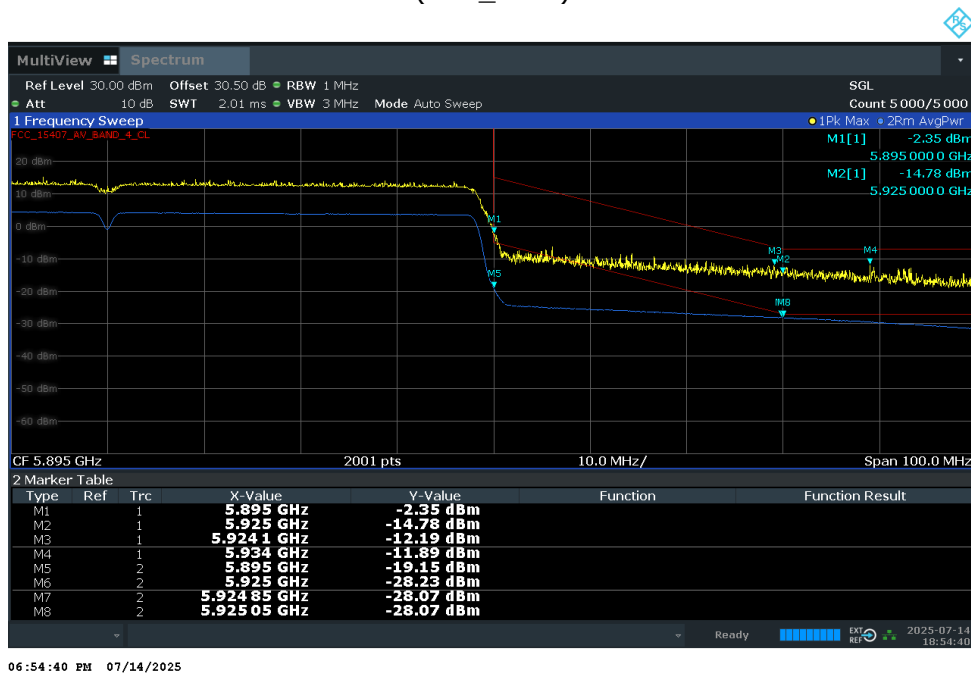
5.7.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN ax 80 MHz, Operating Frequency = straddle, Subband = U-NII-3 + U-NII-4 (S01_AI02)



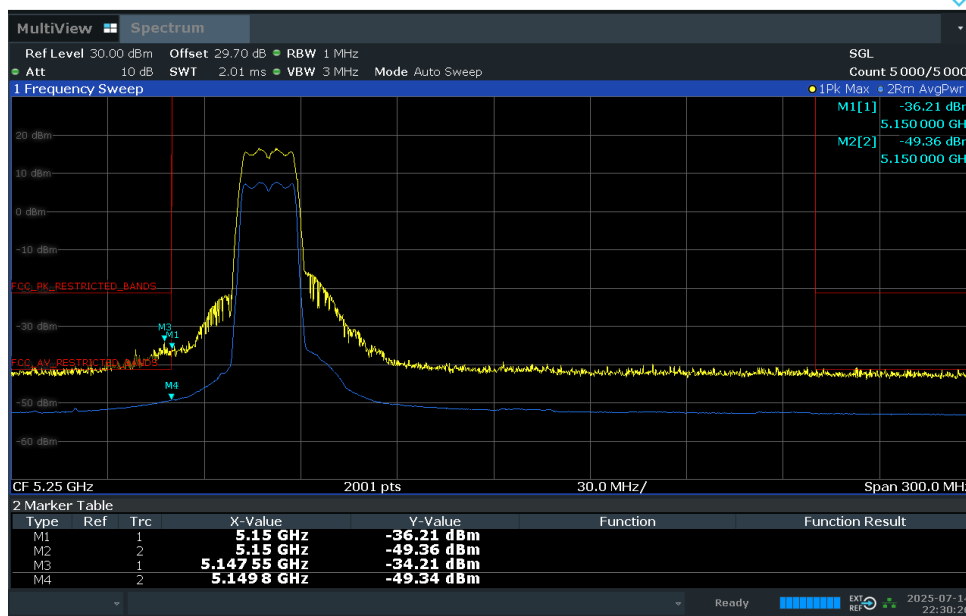
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Radio Technology = WLAN ac 80 MHz, Operating Frequency = straddle, Subband = U-NII-3 + U-NII-4 (S01_AI02)



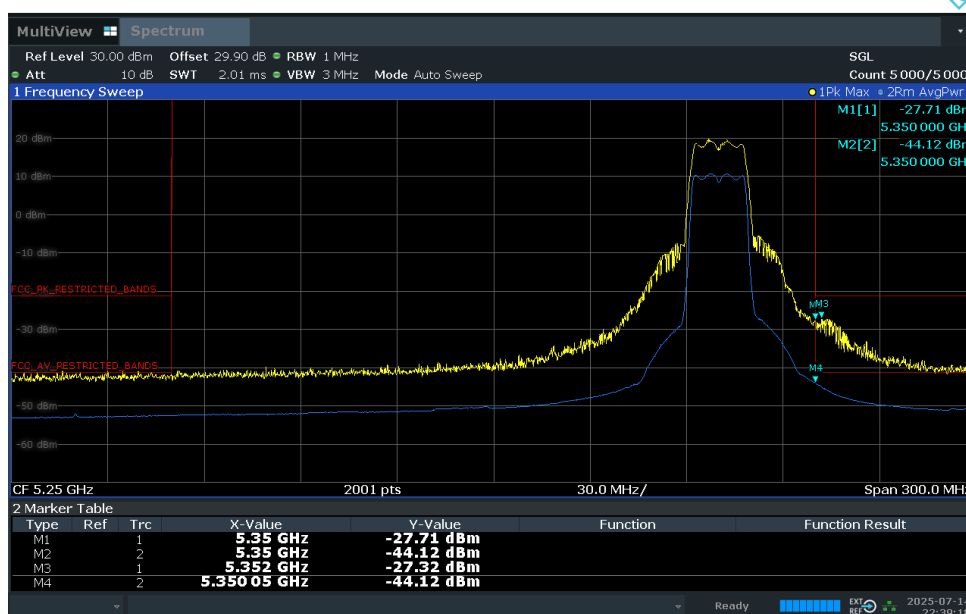
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Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-1
(S01_AI02)



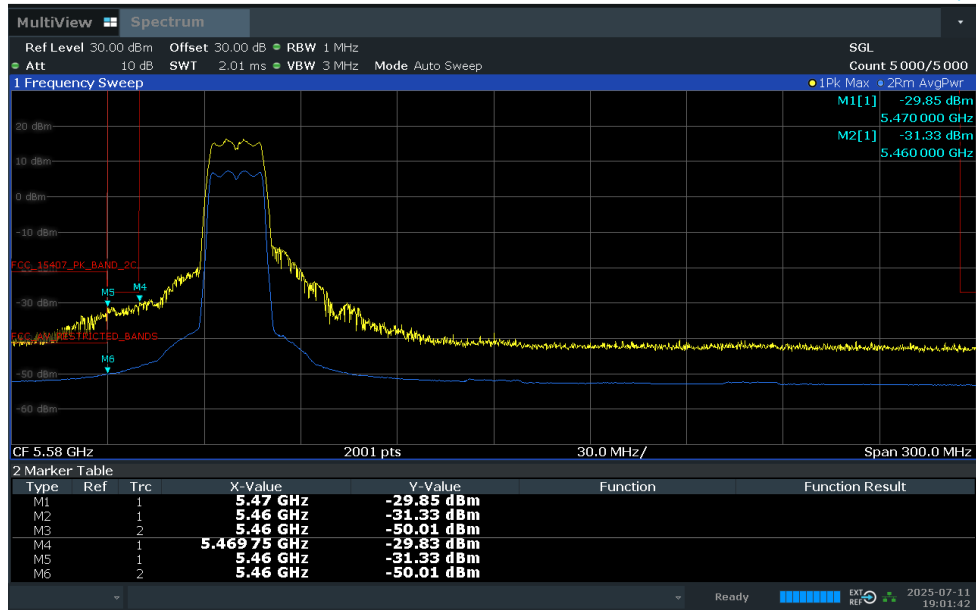
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Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-2A
(S01_AI02)



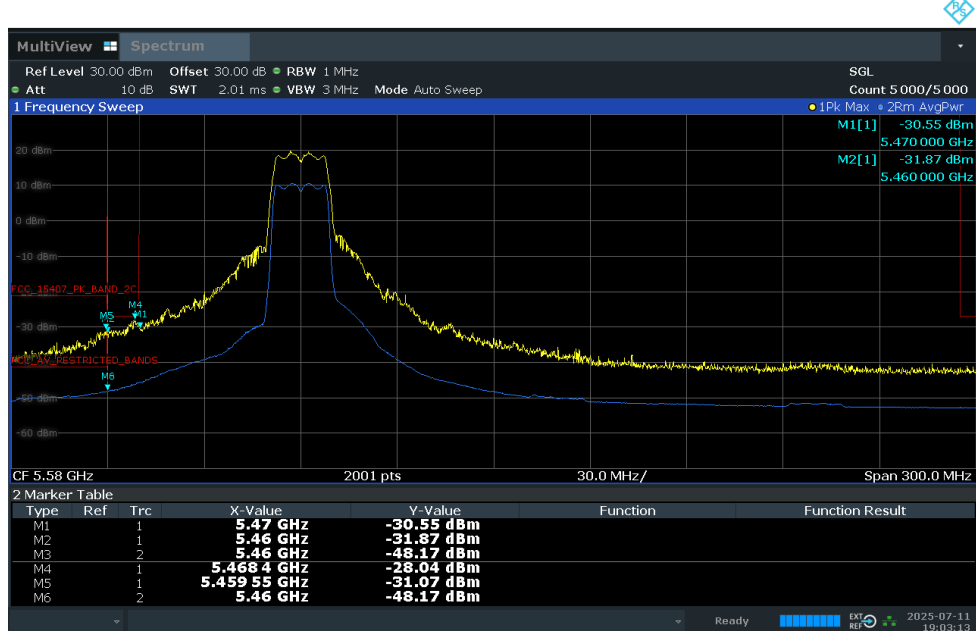
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Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-2C
(S01_AI02)



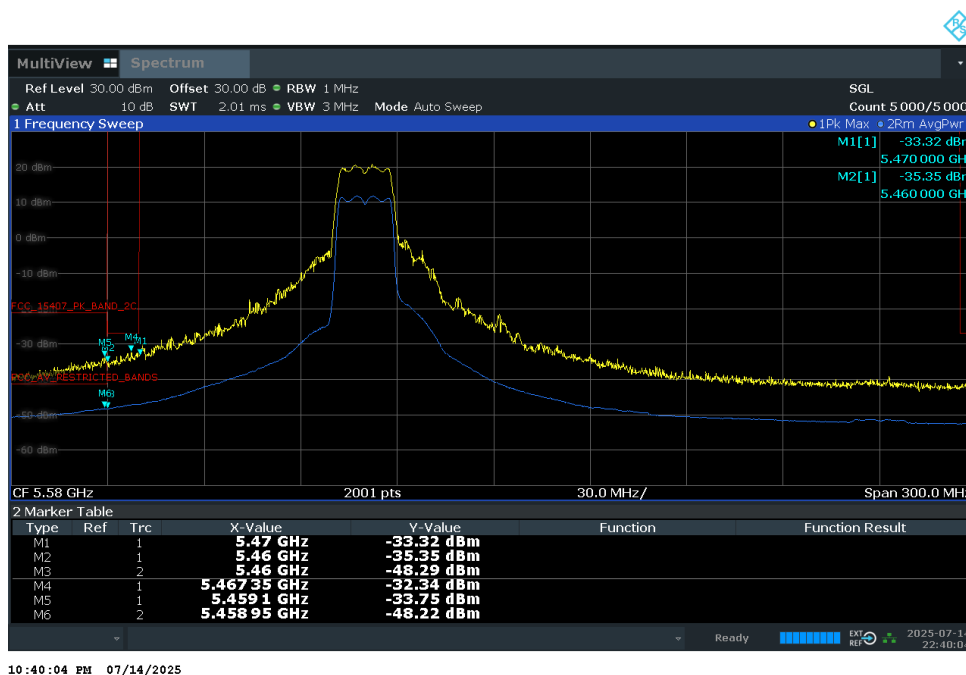
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TX on 5500 MHz



07:03:13 PM 07/11/2025

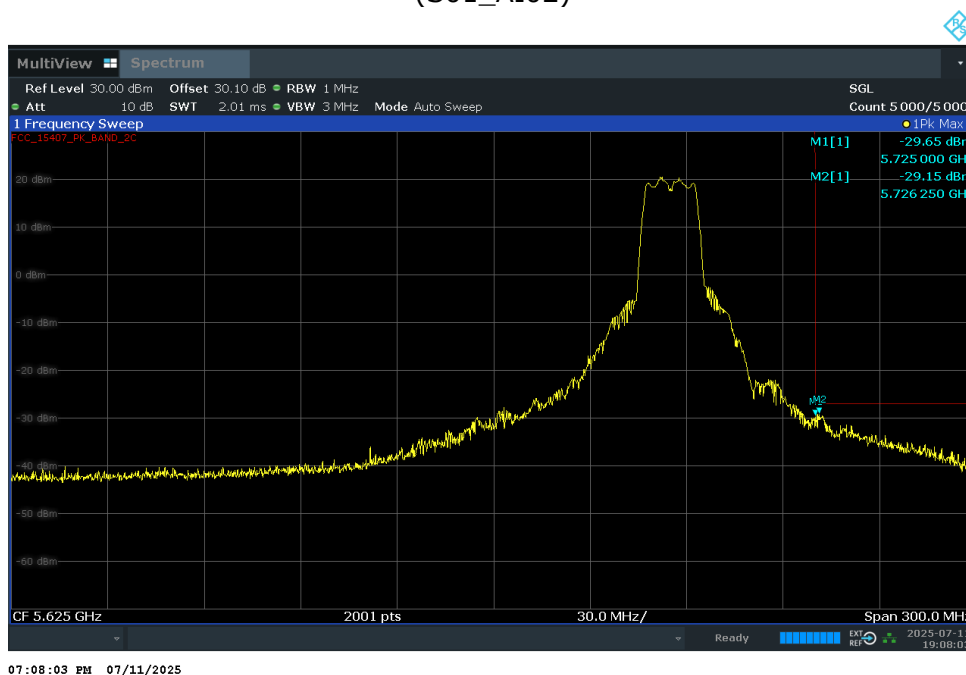
TX on 5520 MHz



10:40:04 PM 07/14/2025

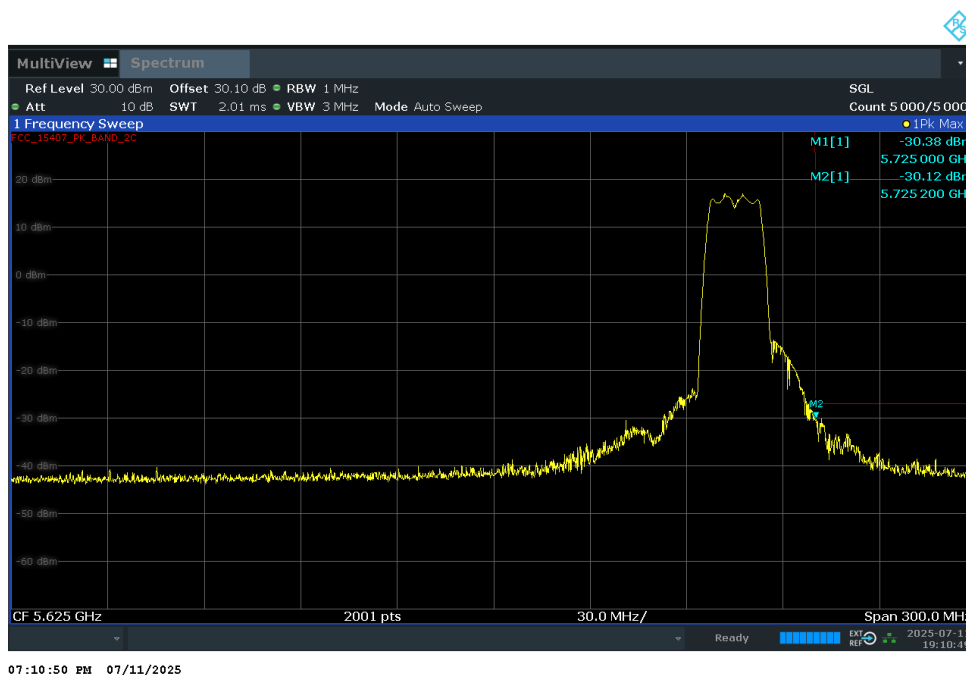
TX on 5540 MHz

Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)



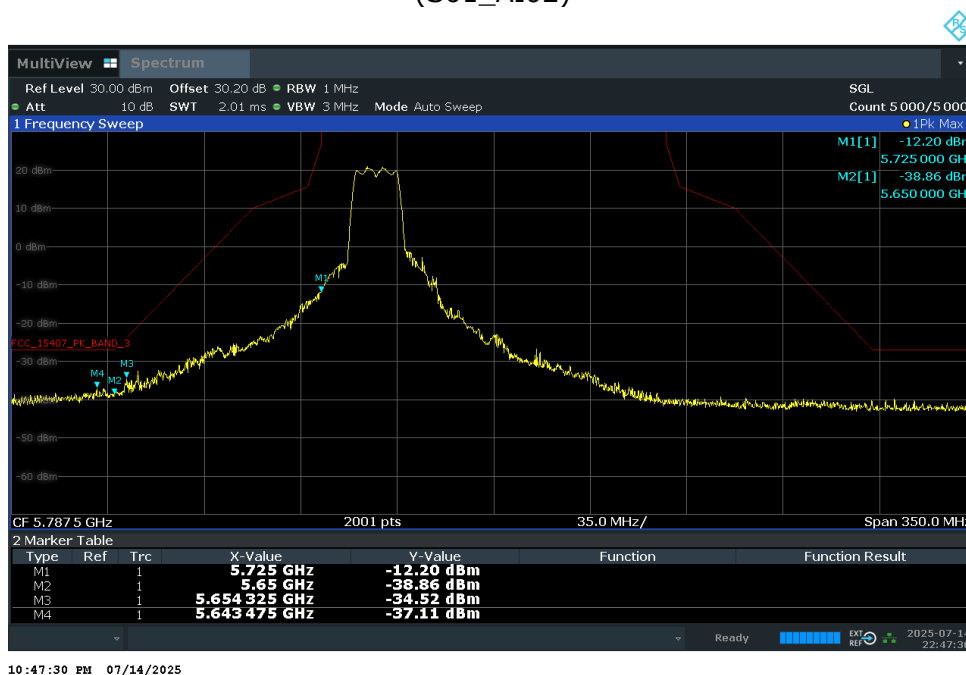
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TX on 5680 MHz

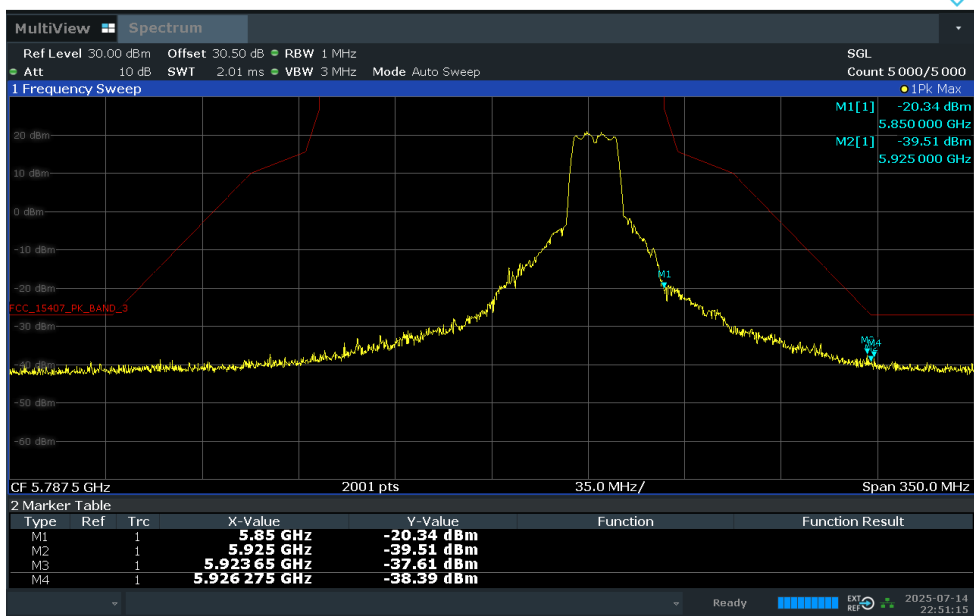


TX on 5700 MHz

Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-3 (S01_AI02)



Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-3
(S01_AI02)



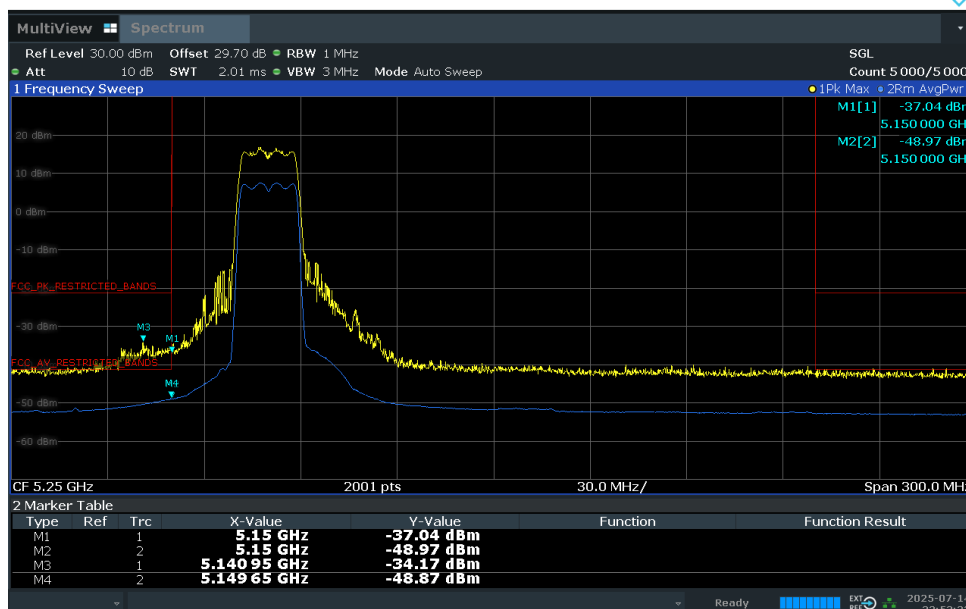
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Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-4
(S01_AI02)



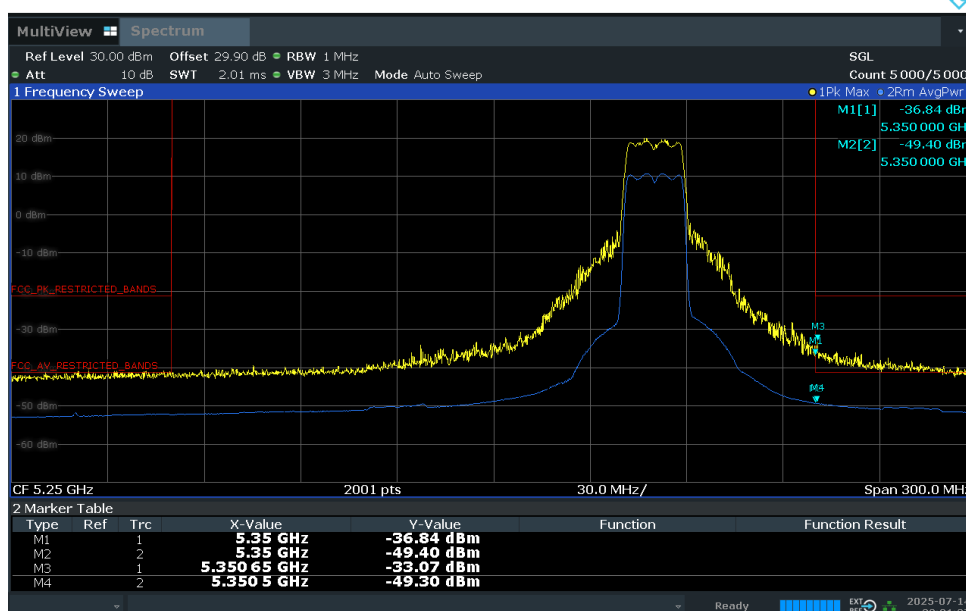
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Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Subband = U-NII-1 (S01_AI02)



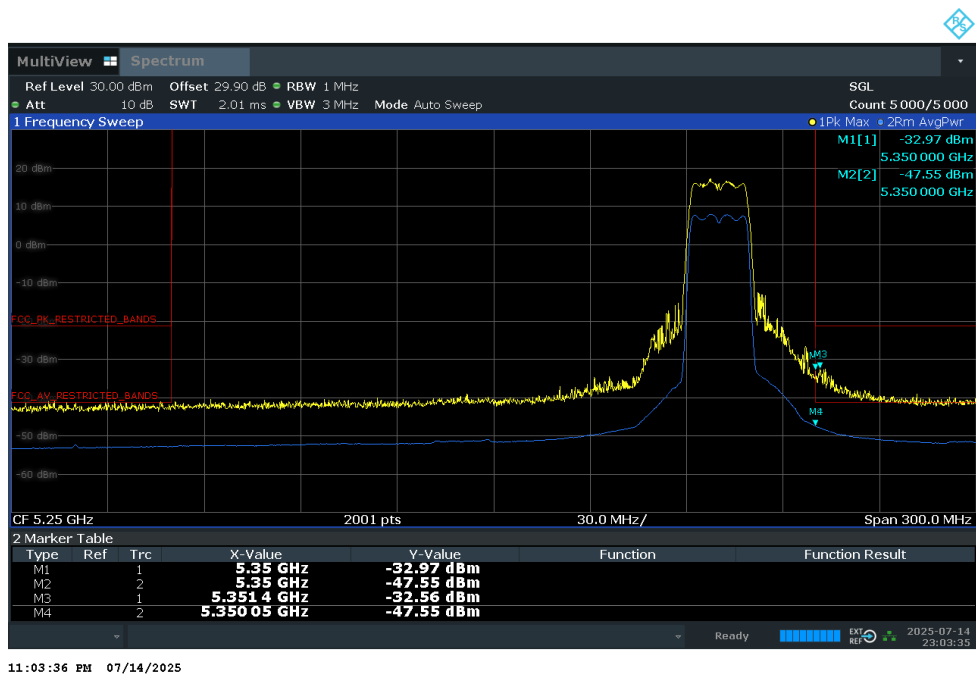
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Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_AI02)



11:01:28 PM 07/14/2025

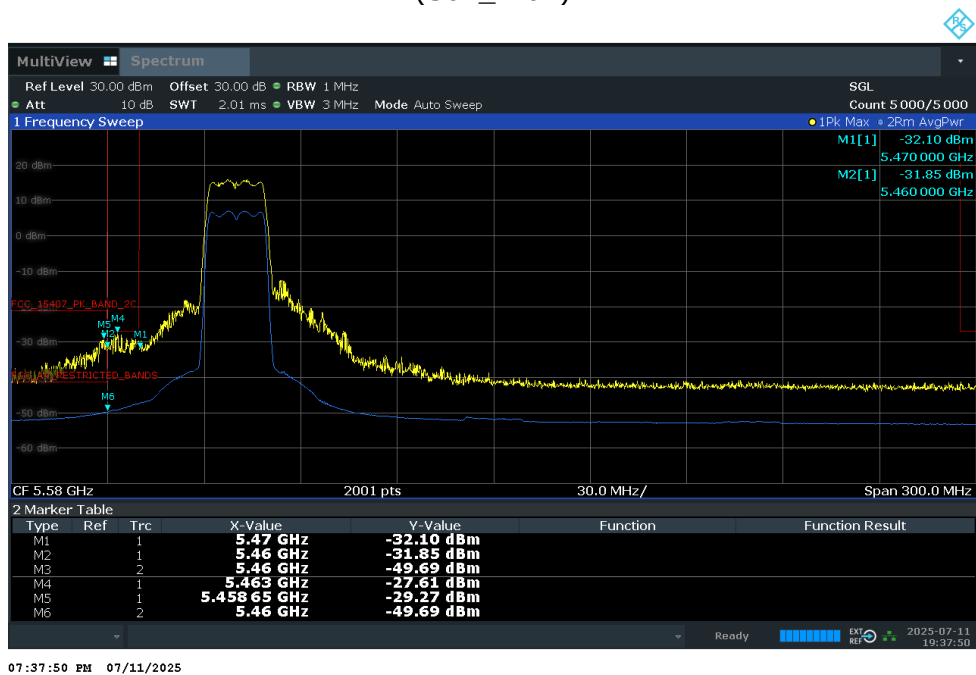
TX on 5300 MHz



11:03:36 PM 07/14/2025

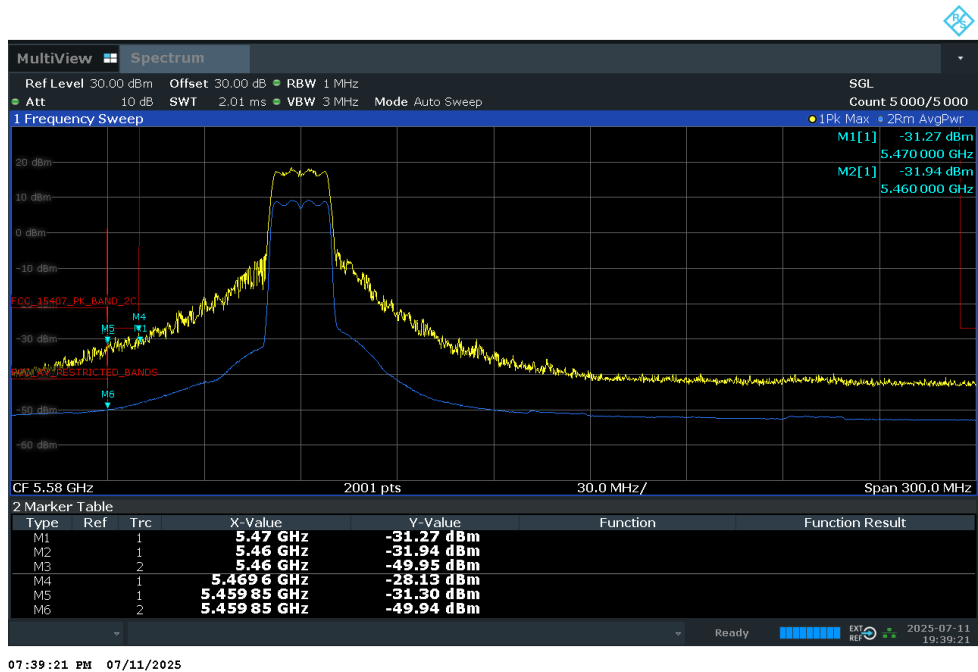
TX on 5320 MHz

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S01_AI02)



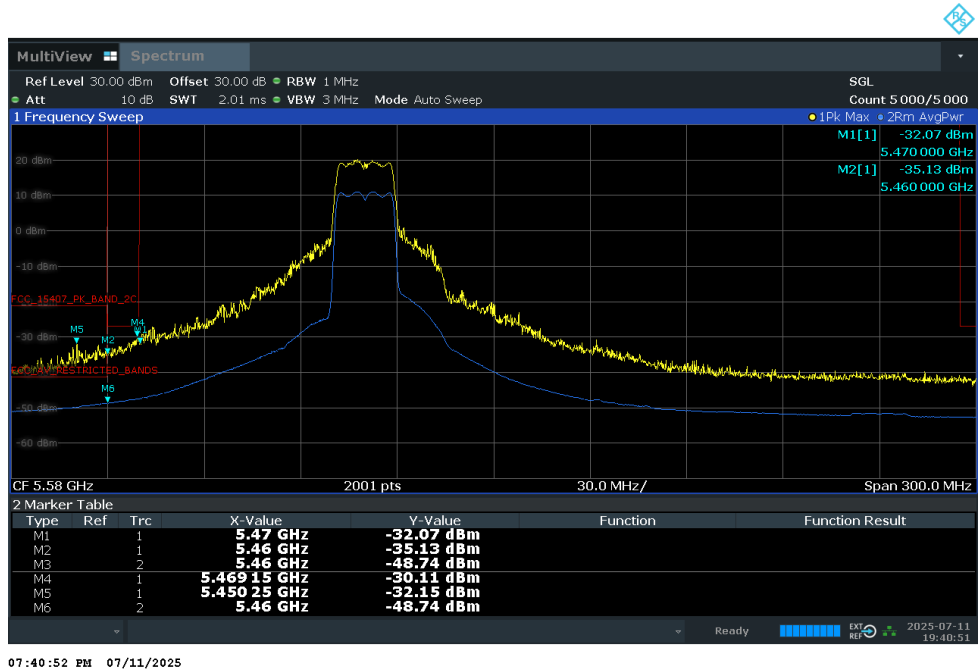
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TX on 5500 MHz



07:39:21 PM 07/11/2025

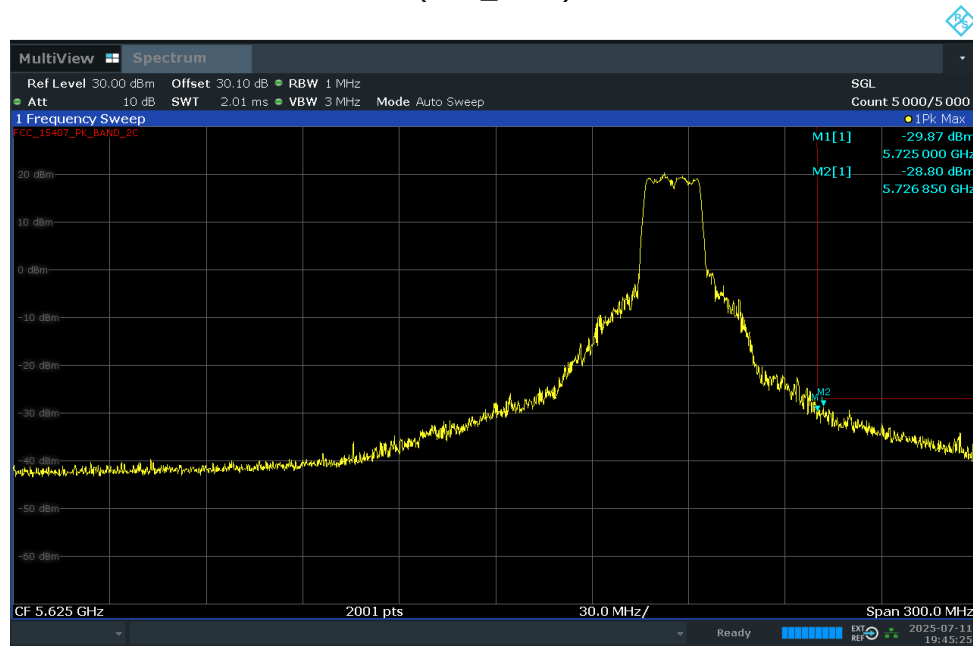
TX on 5520 MHz



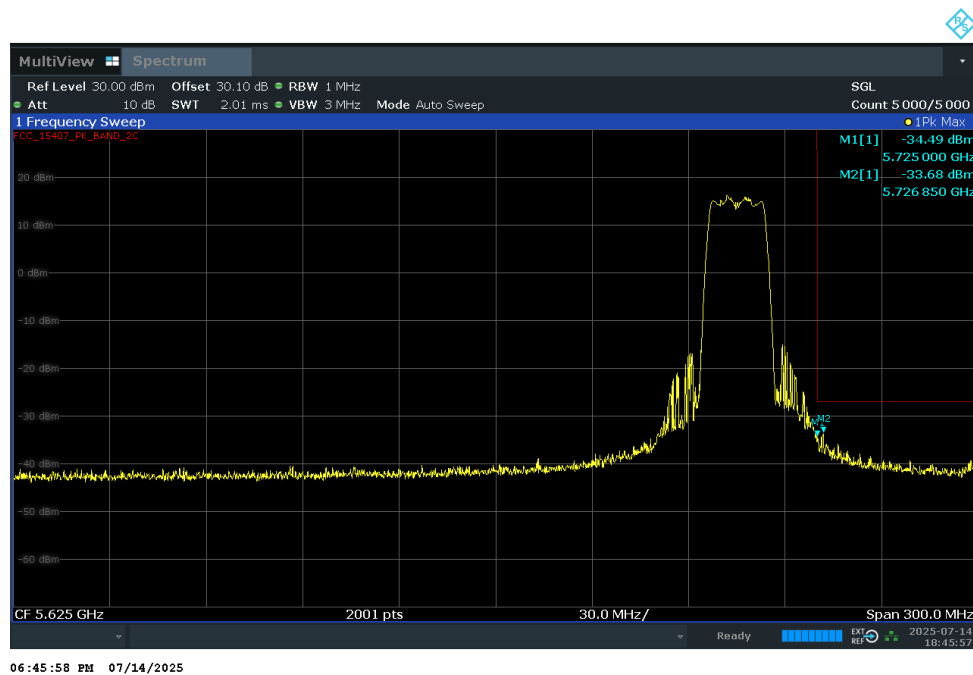
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TX on 5540 MHz

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)

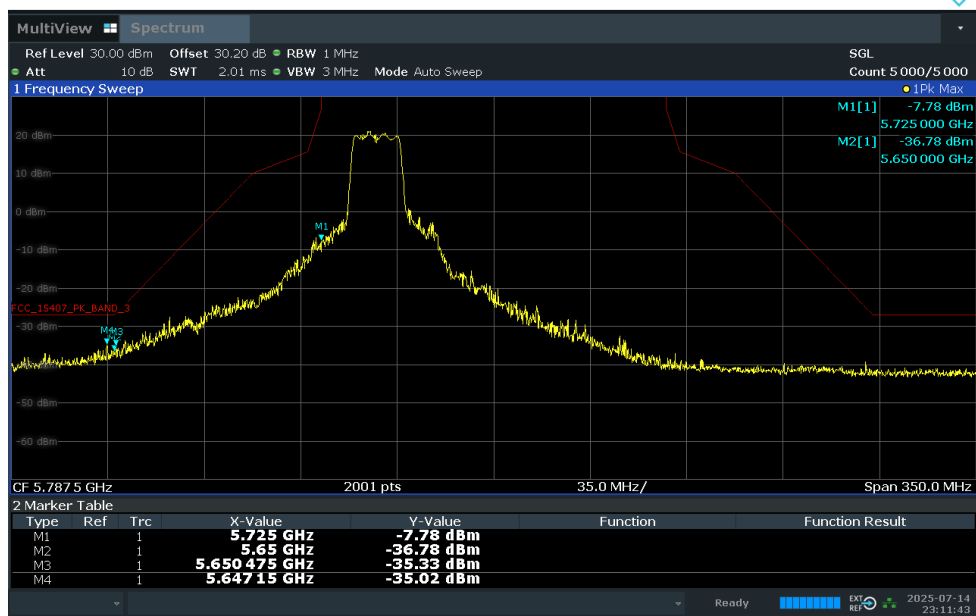


TX on 5580 MHz



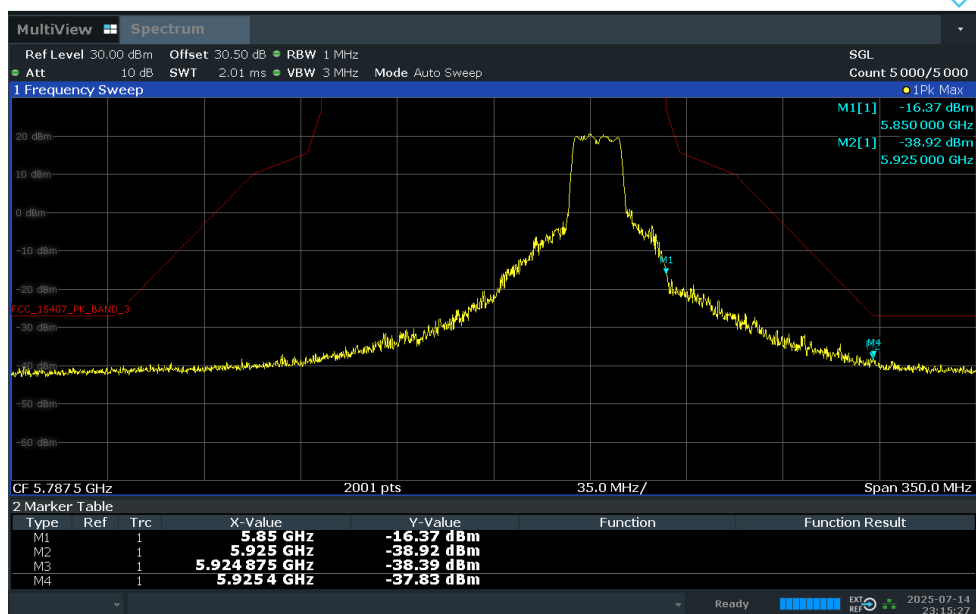
TX on 5700 MHz

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Subband = U-NII-3
(S01_AI02)



11:11:44 PM 07/14/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-3
(S01_AI02)



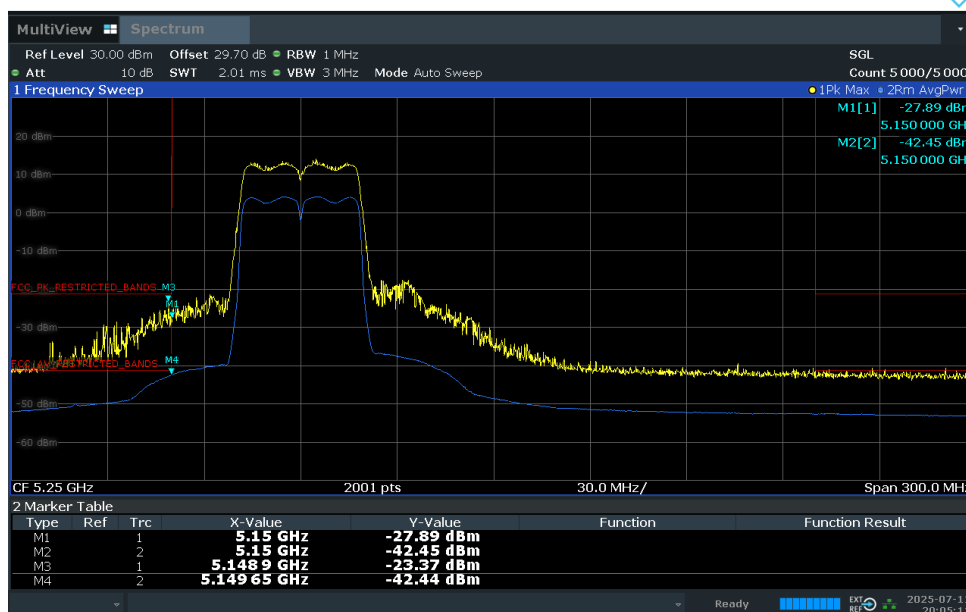
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Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-4
(S01_AI02)



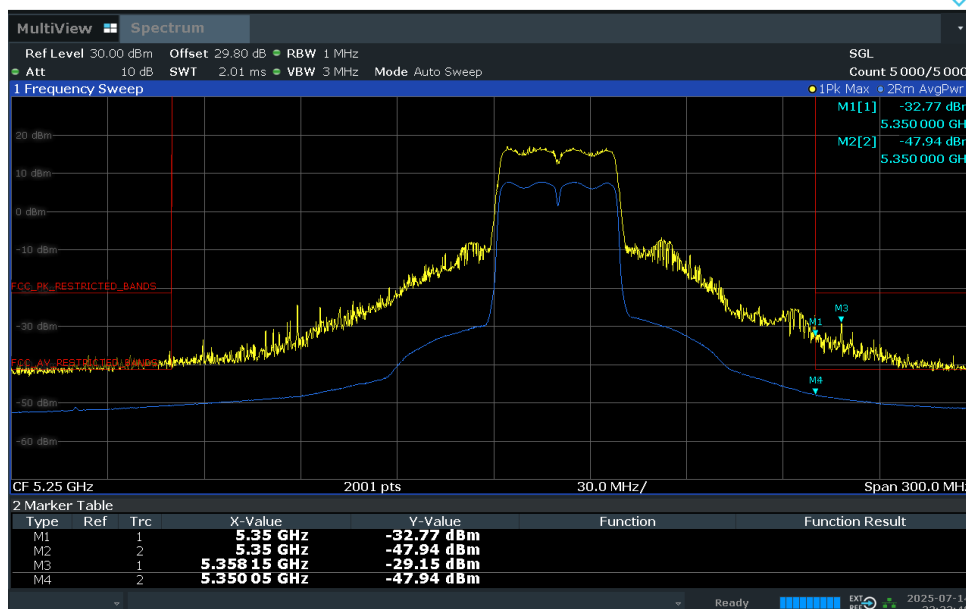
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Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Subband = U-NII-1
(S01_AI02)



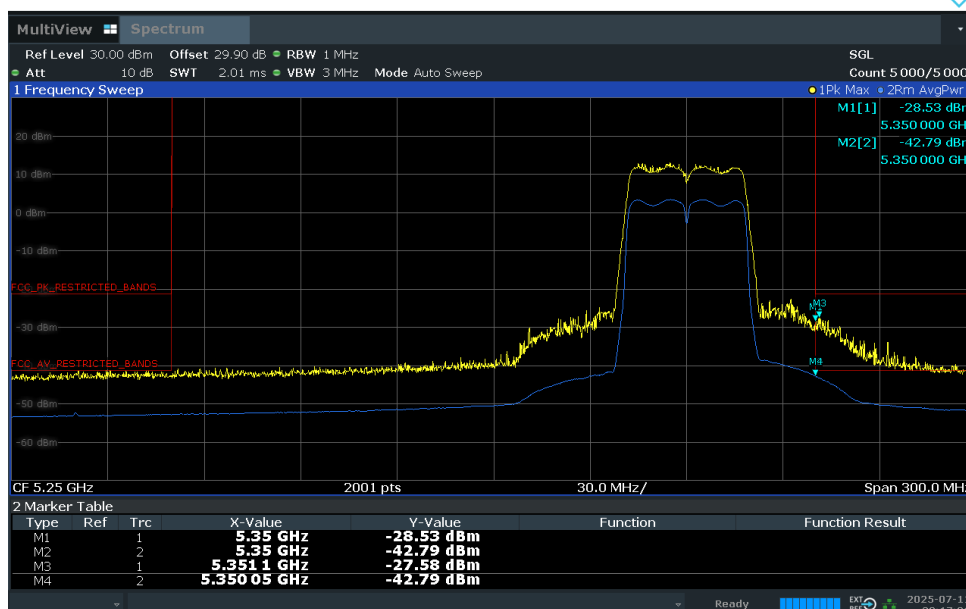
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Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_AI02)



11:22:50 PM 07/14/2025

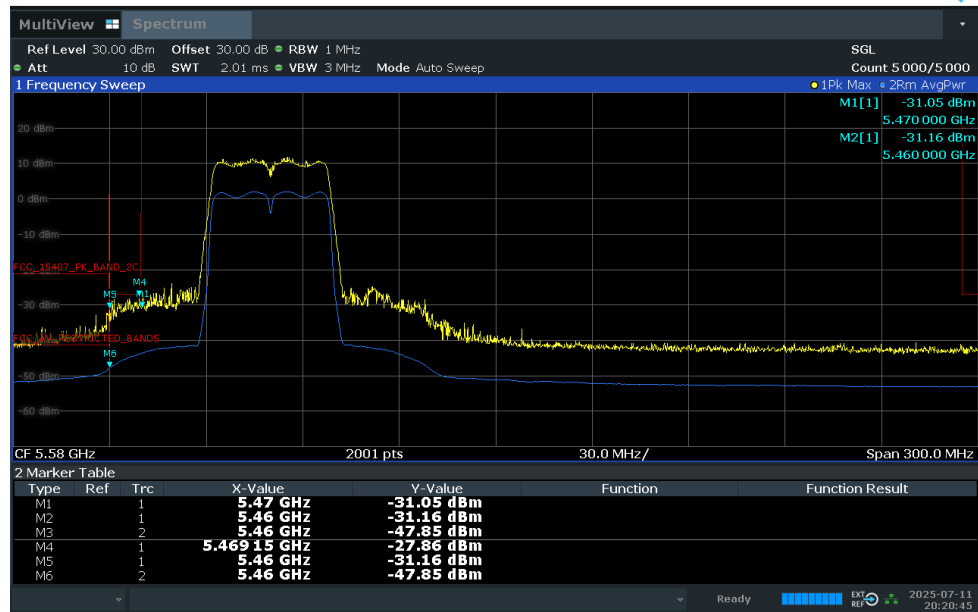
TX on 5270 MHz



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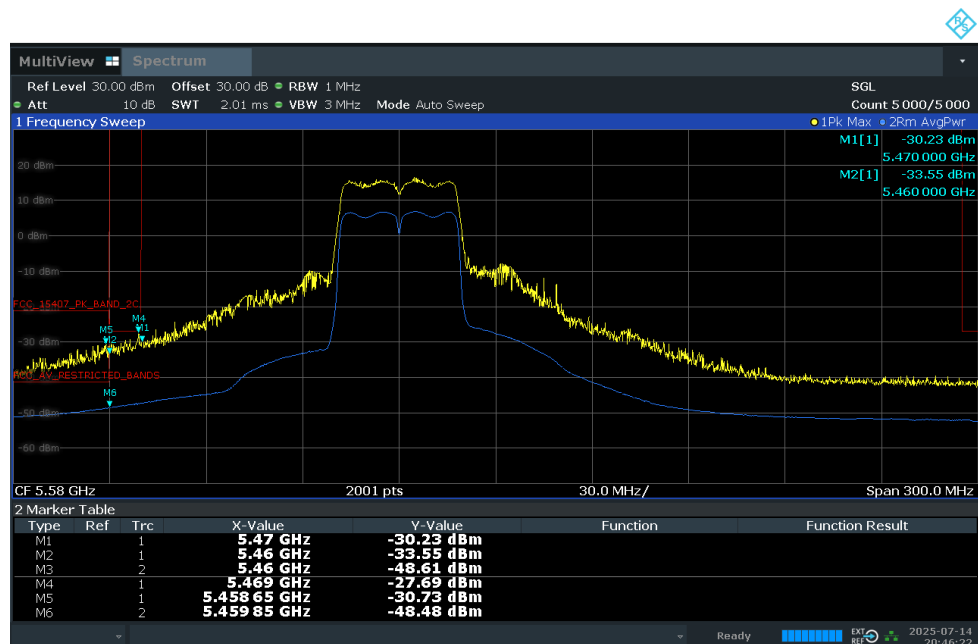
TX on 5310 MHz

Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S01_AI02)



08:20:46 PM 07/11/2025

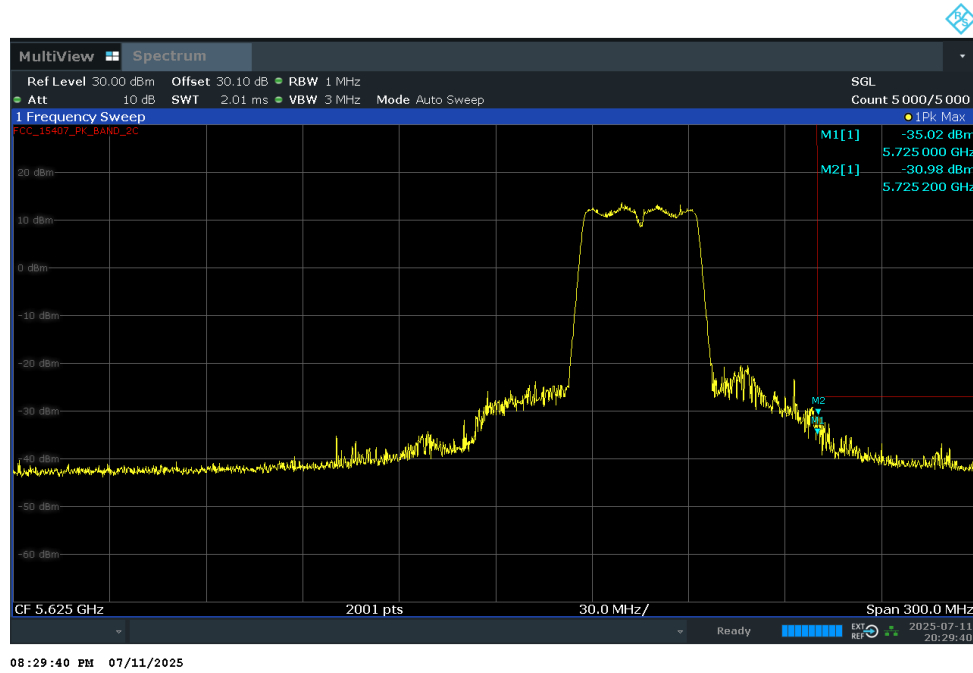
TX on 5510 MHz



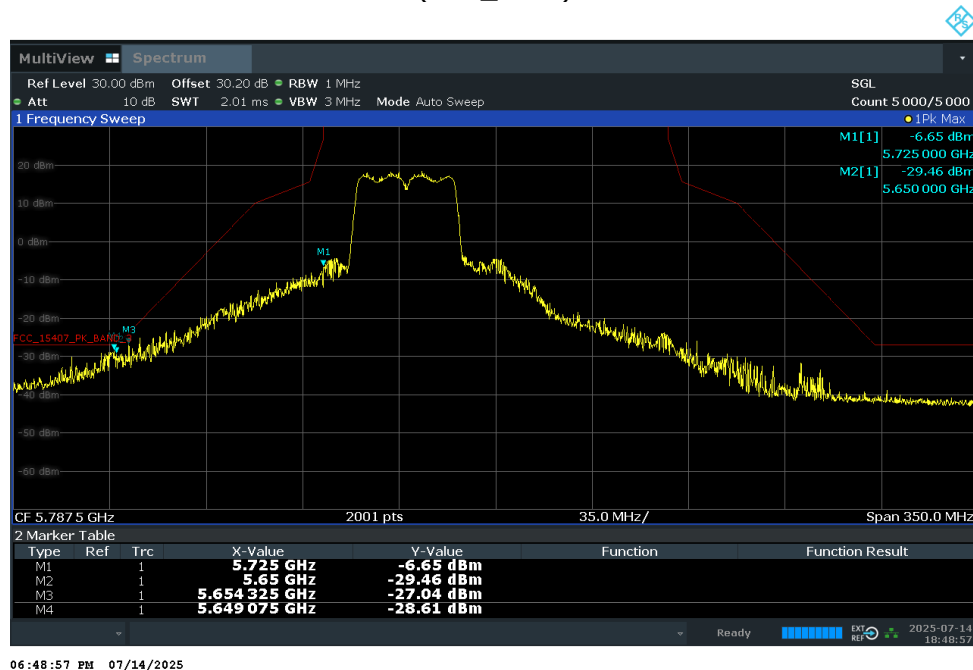
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TX on 5550 MHz

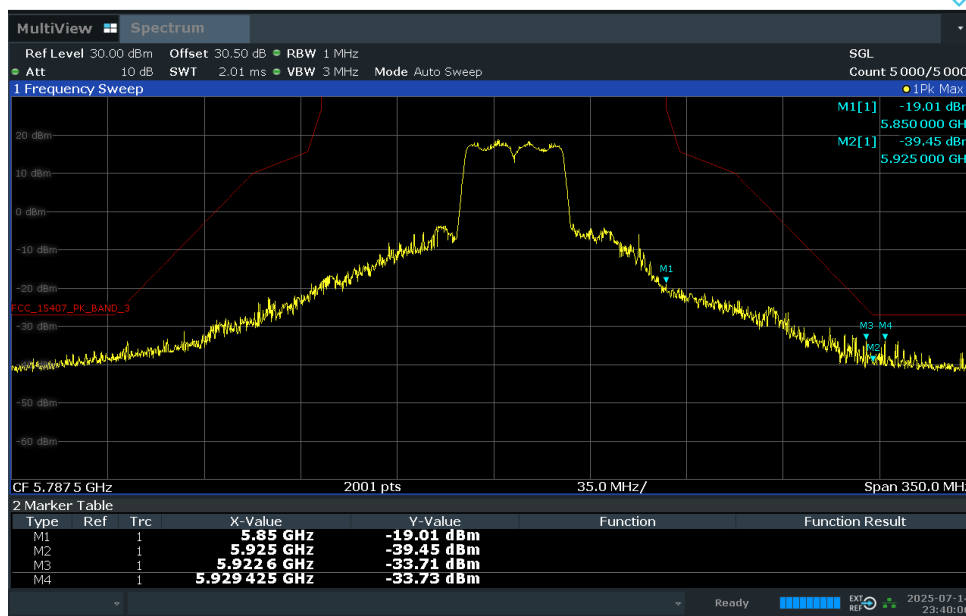
Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)



Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Subband = U-NII-3 (S01_AI02)

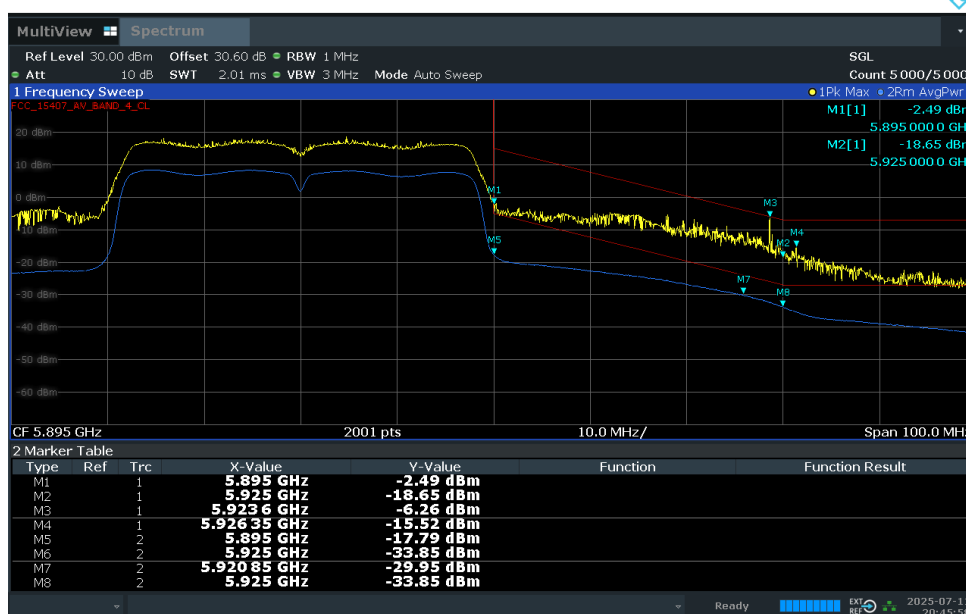


Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-3 (S01_AI02)



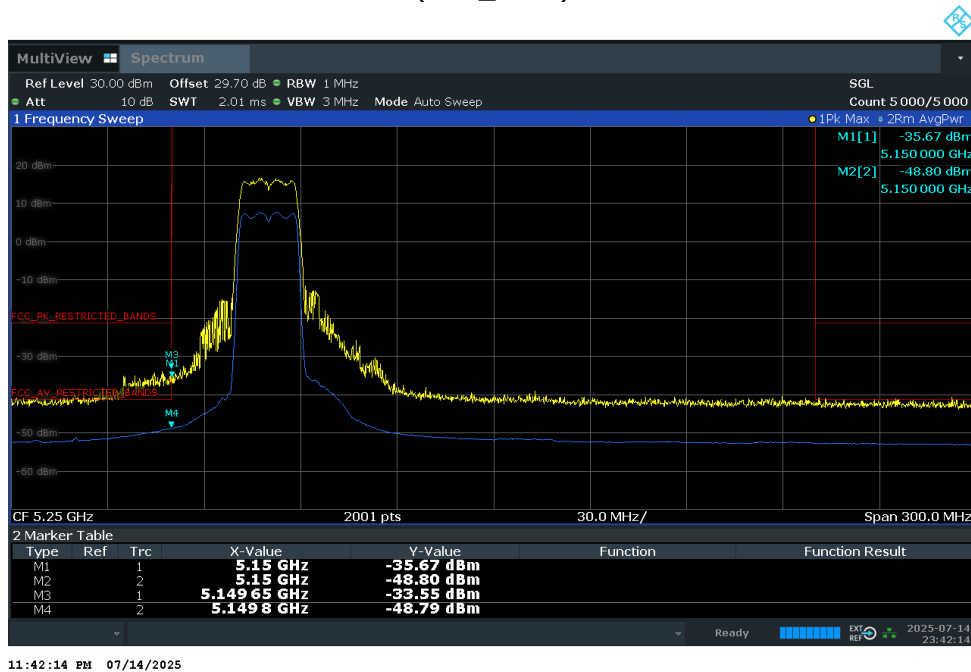
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Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-4 (S01_AI02)



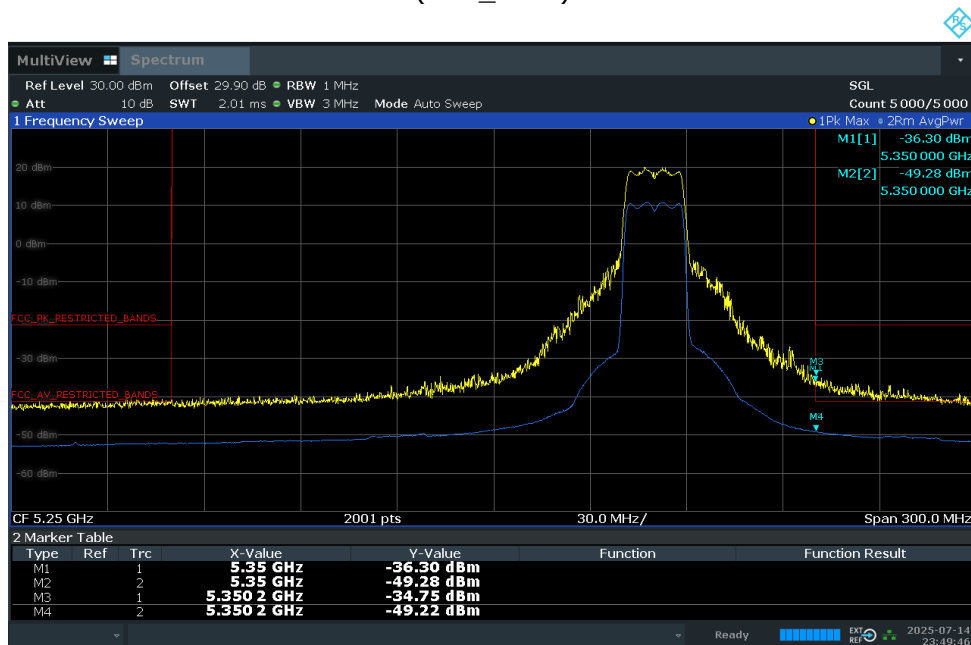
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Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-1 (S01_AI02)



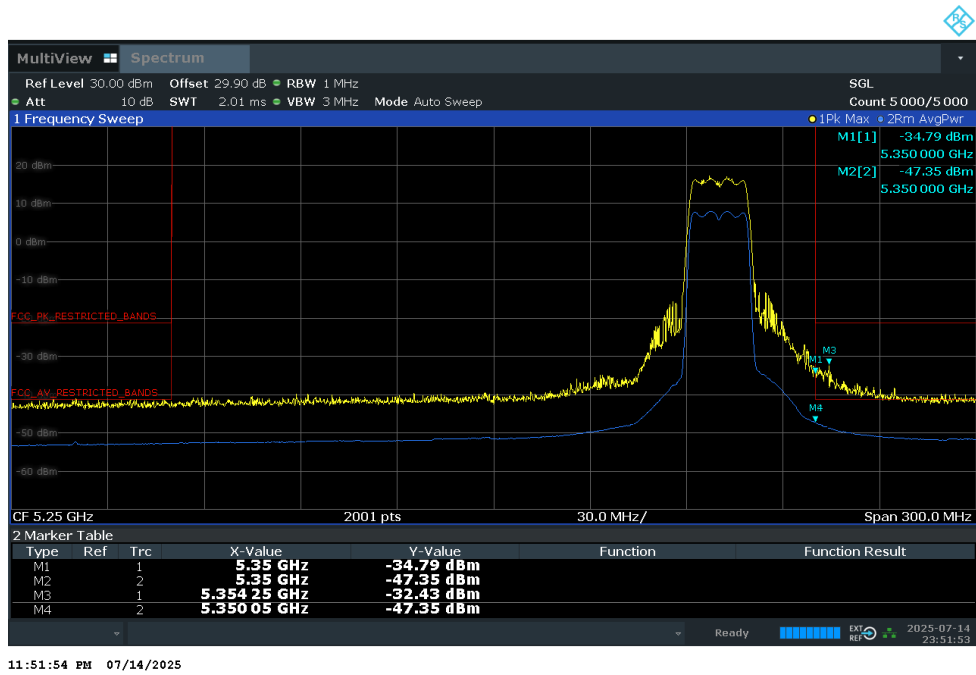
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Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_AI02)



11:49:46 PM 07/14/2025

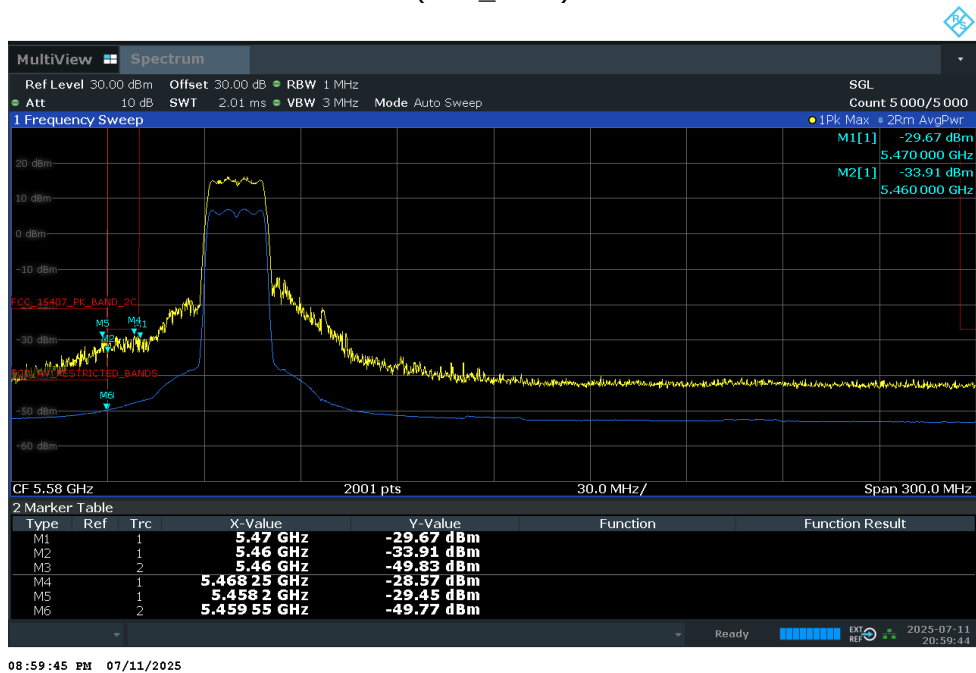
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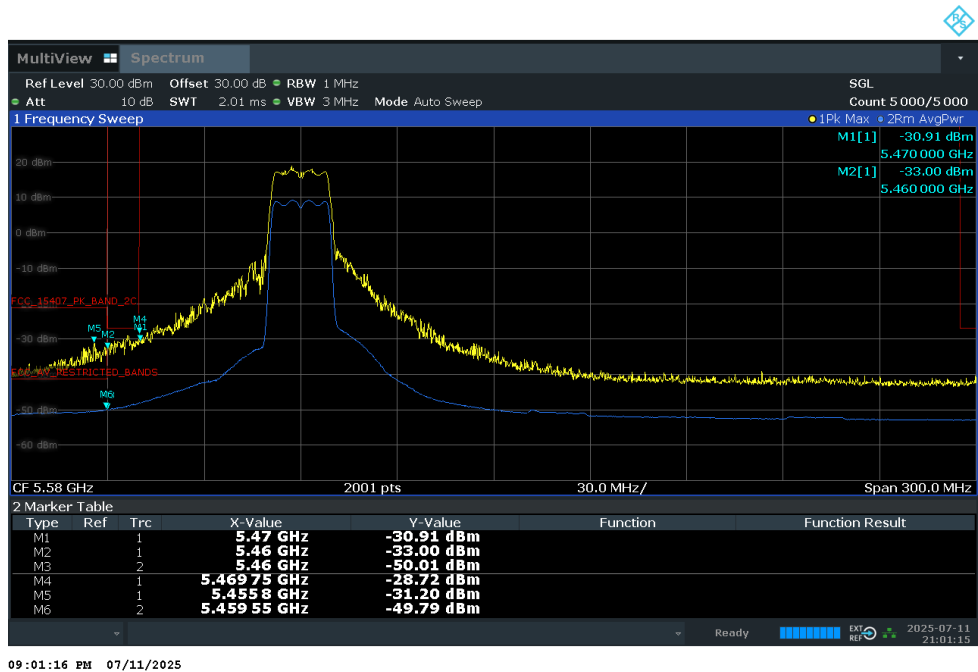
TX on 5320 MHz

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S01_AI02)



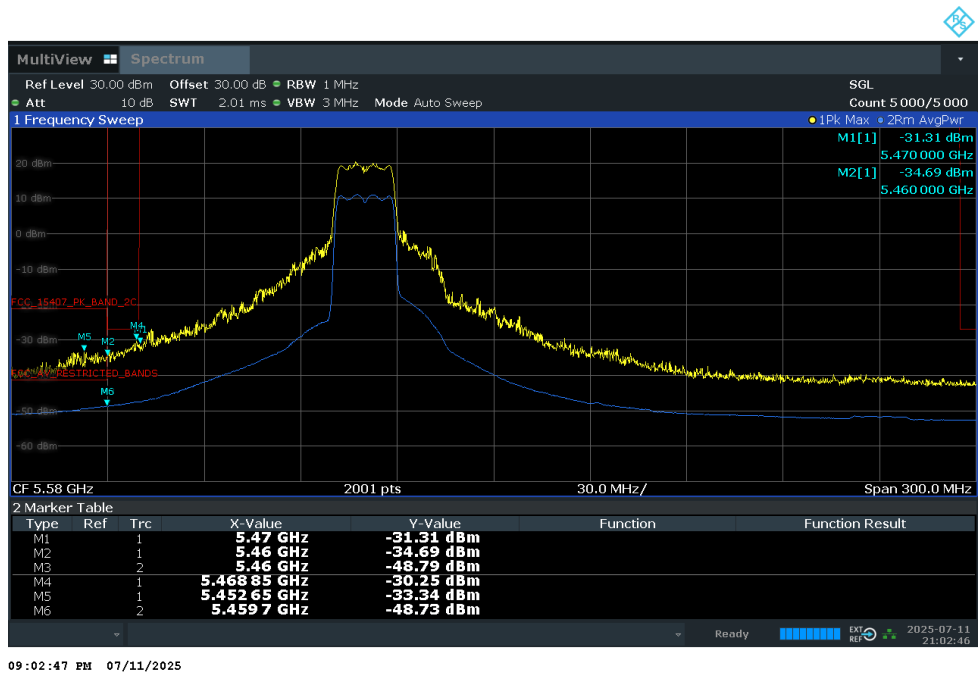
08:59:45 PM 07/11/2025

TX on 5500 MHz



09:01:16 PM 07/11/2025

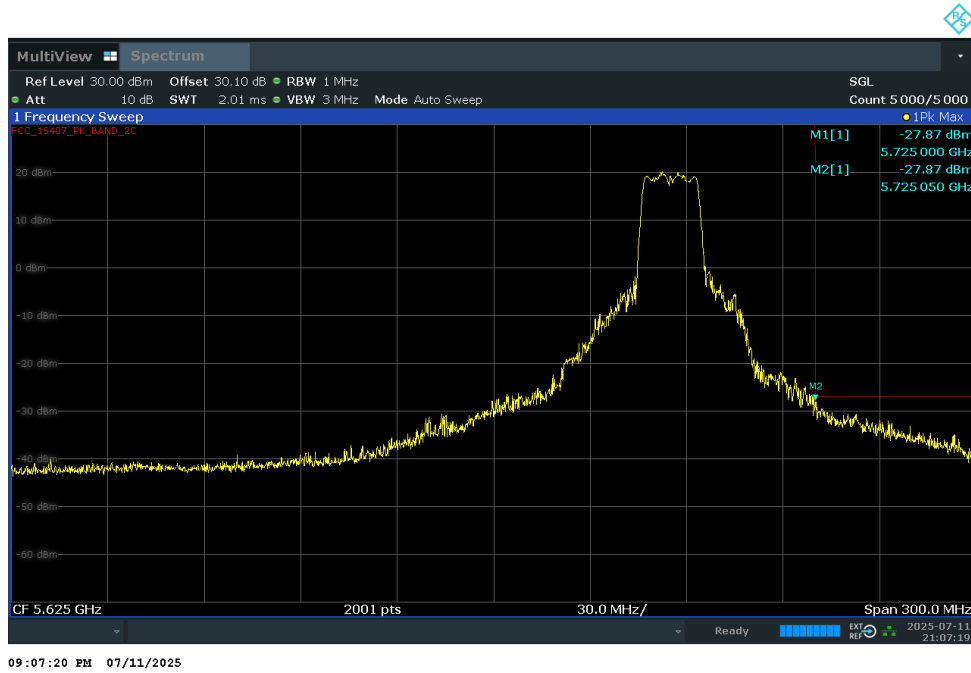
TX on 5520 MHz



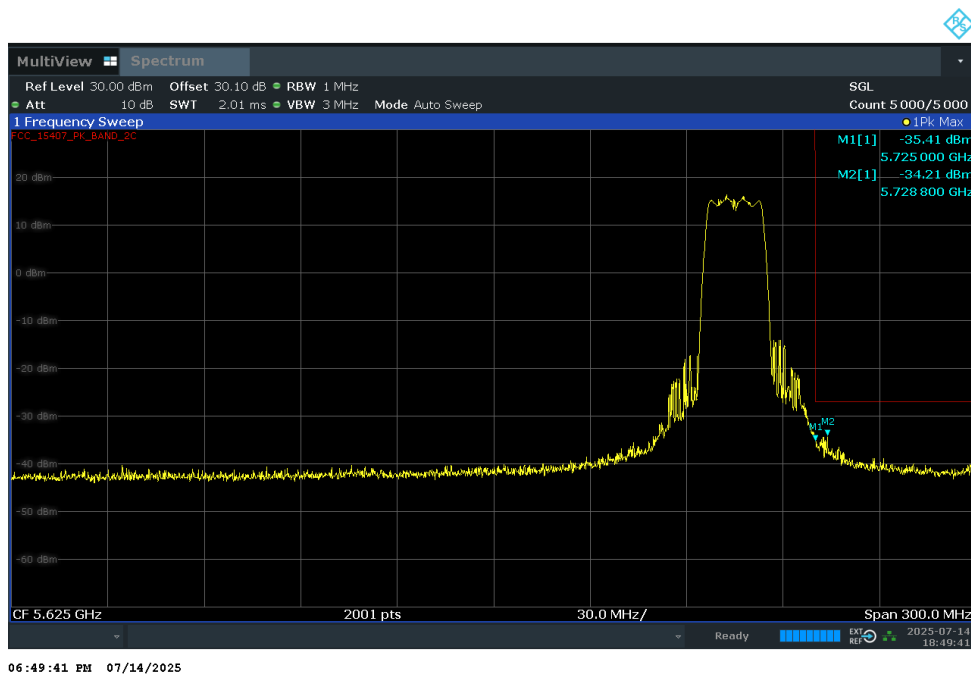
09:02:47 PM 07/11/2025

TX on 5540 MHz

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)

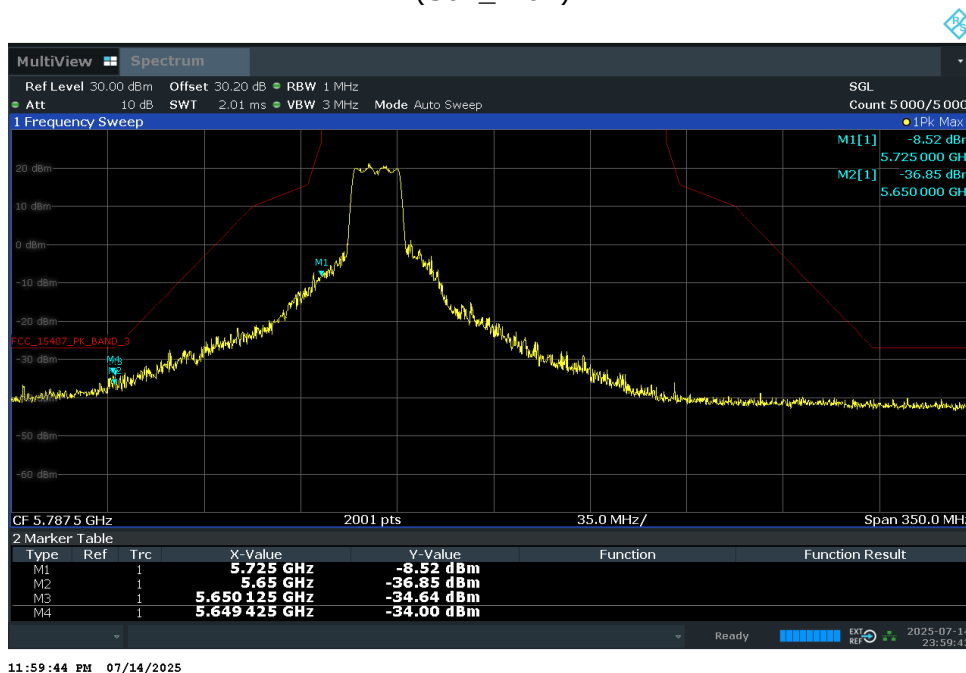


TX on 5680 MHz



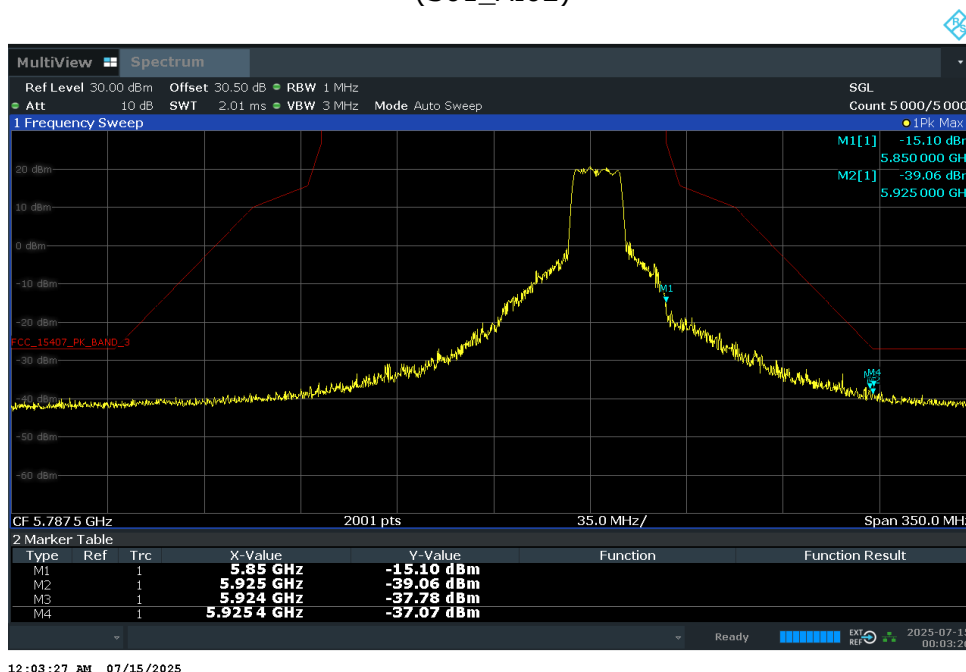
TX on 5700 MHz

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-3
(S01_AI02)



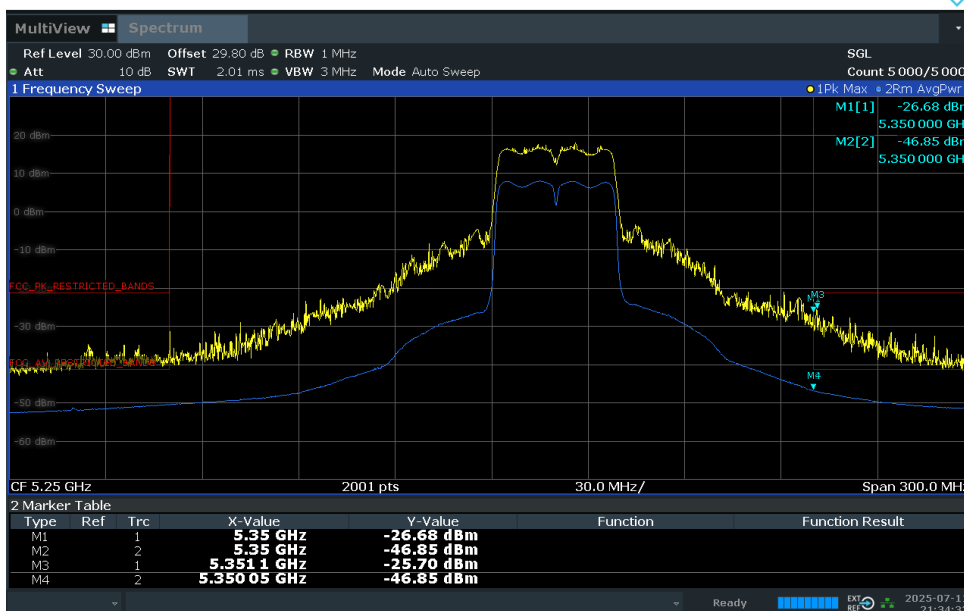
11:59:44 PM 07/14/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-3
(S01_AI02)



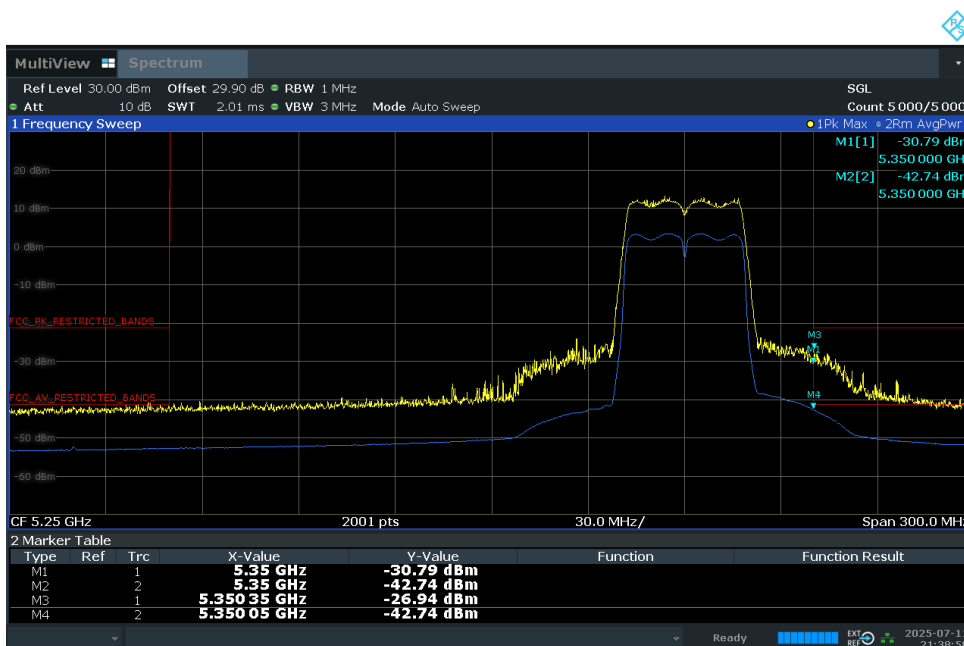
12:03:27 AM 07/15/2025

Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_AI02)



09:34:33 PM 07/11/2025

TX on 5270 MHz



09:38:58 PM 07/11/2025

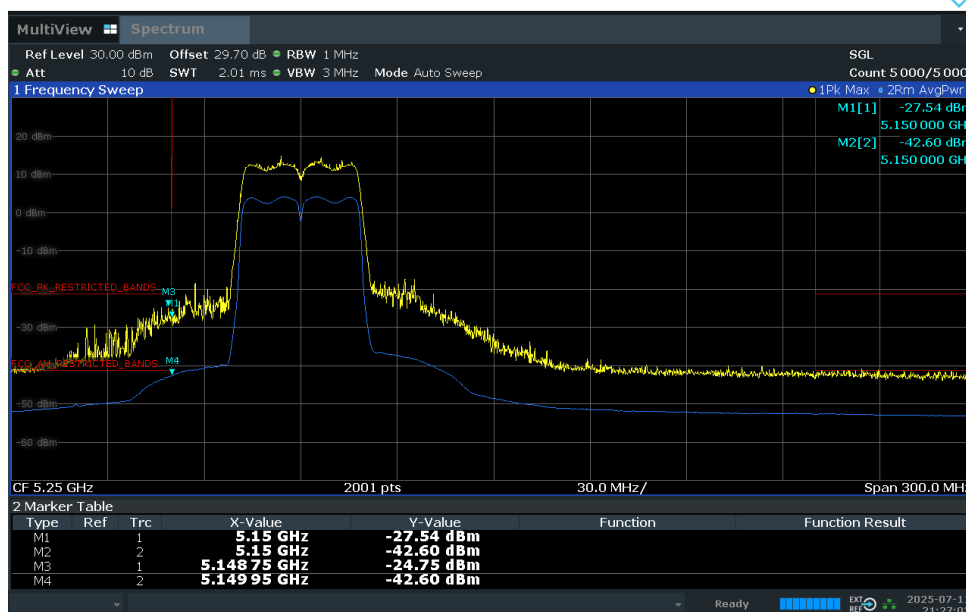
TX on 5310 MHz

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-4
(S01_AI02)



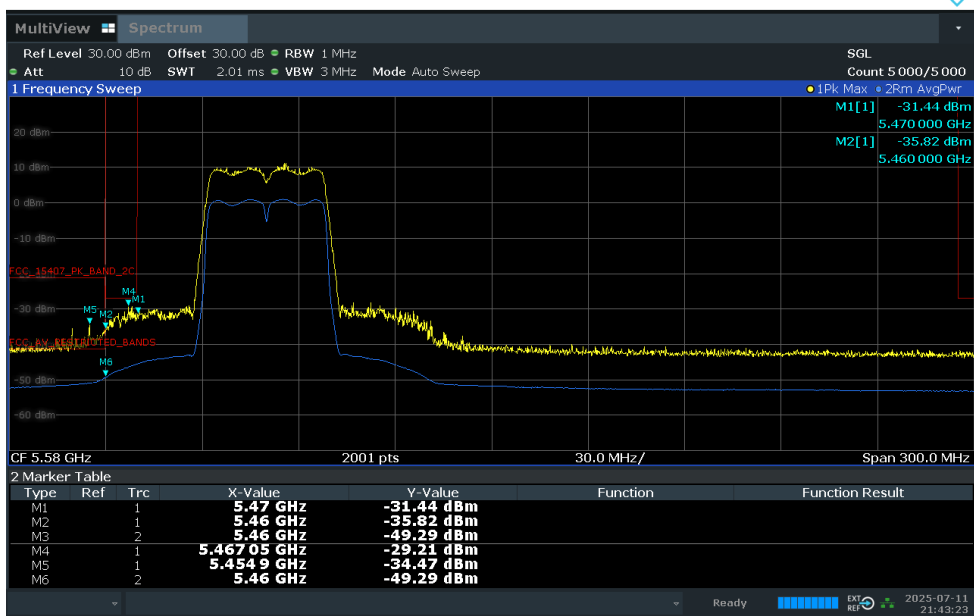
09:23:04 PM 07/11/2025

Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-1
(S01_AI02)



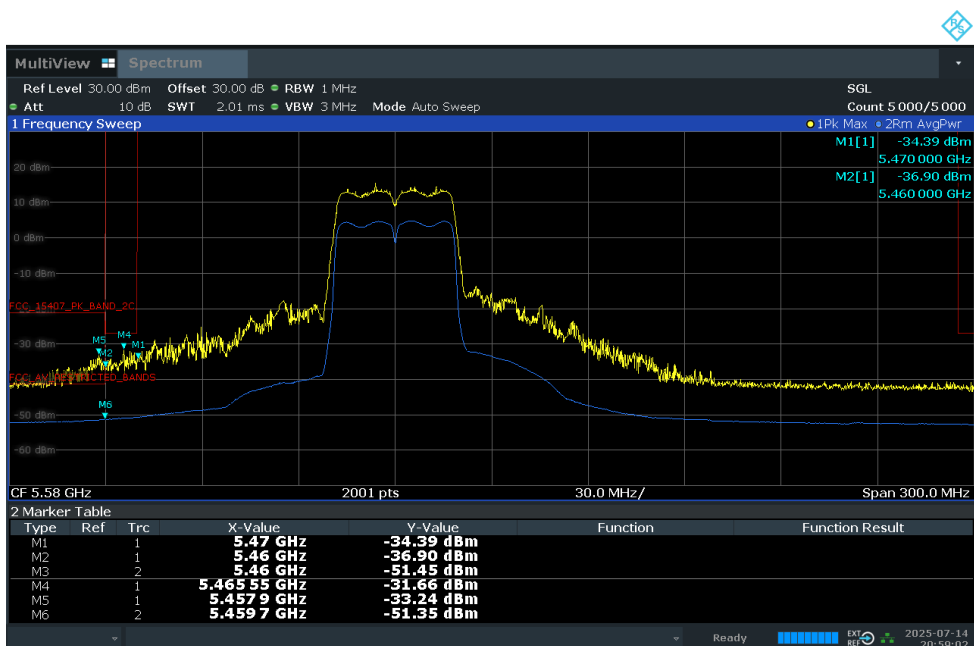
09:27:03 PM 07/11/2025

Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S01_AI02)



09:43:23 PM 07/11/2025

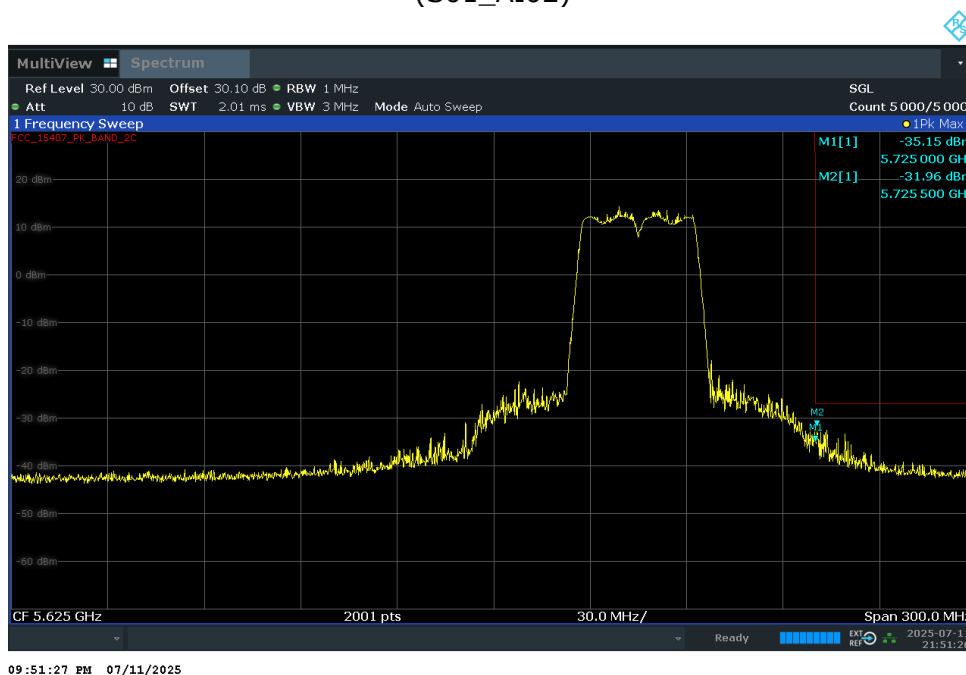
TX on 5510 MHz



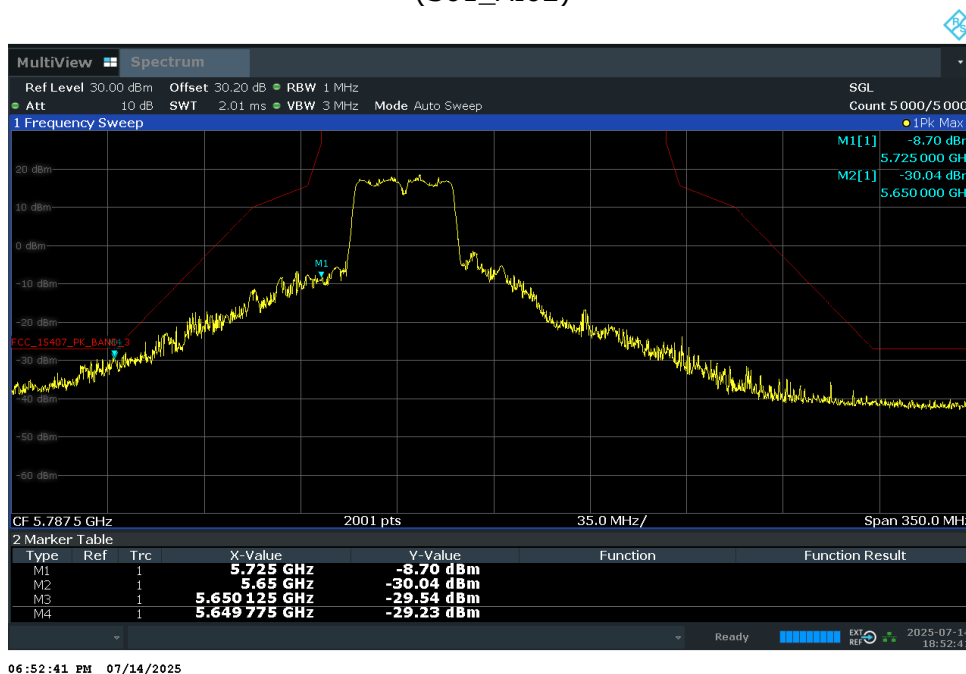
08:59:03 PM 07/14/2025

TX on 5550 MHz

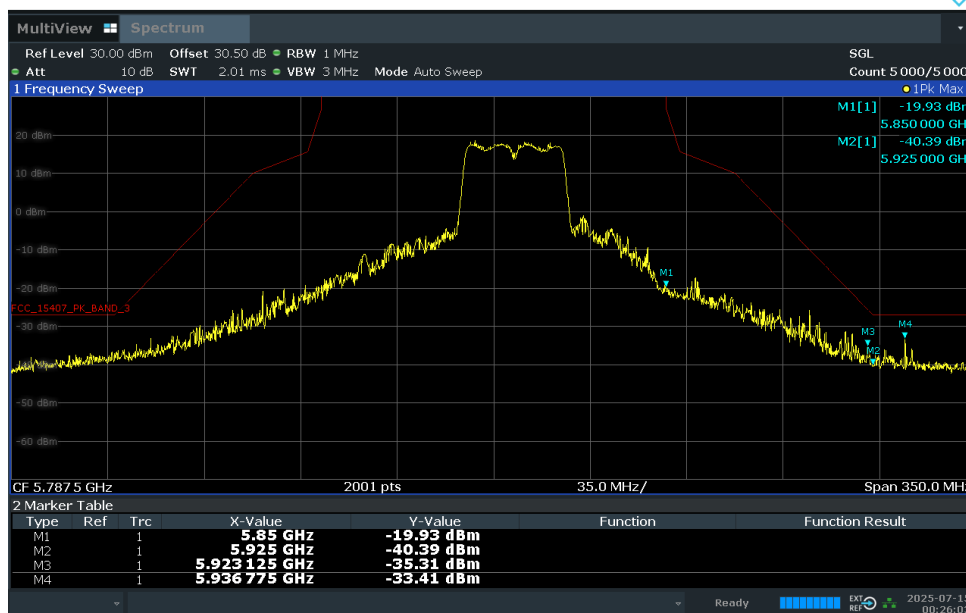
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)



Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-3 (S01_AI02)

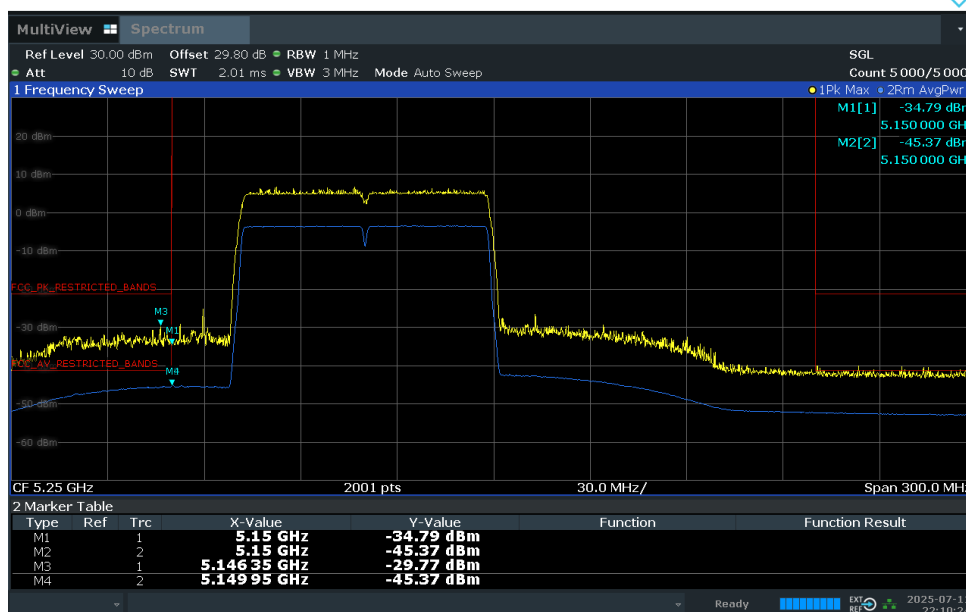


Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-3
(S01_AI02)



12:26:04 AM 07/15/2025

Radio Technology = WLAN ac 80 MHz, Operating Frequency = mid, Subband = U-NII-1
(S01_AI02)



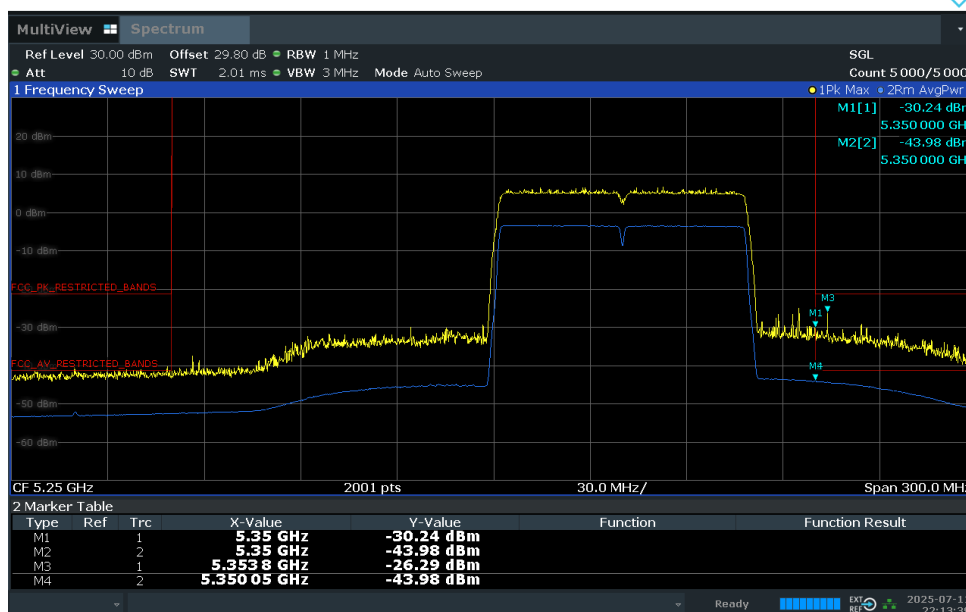
10:10:24 PM 07/11/2025

Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-4
(S01_AI02)



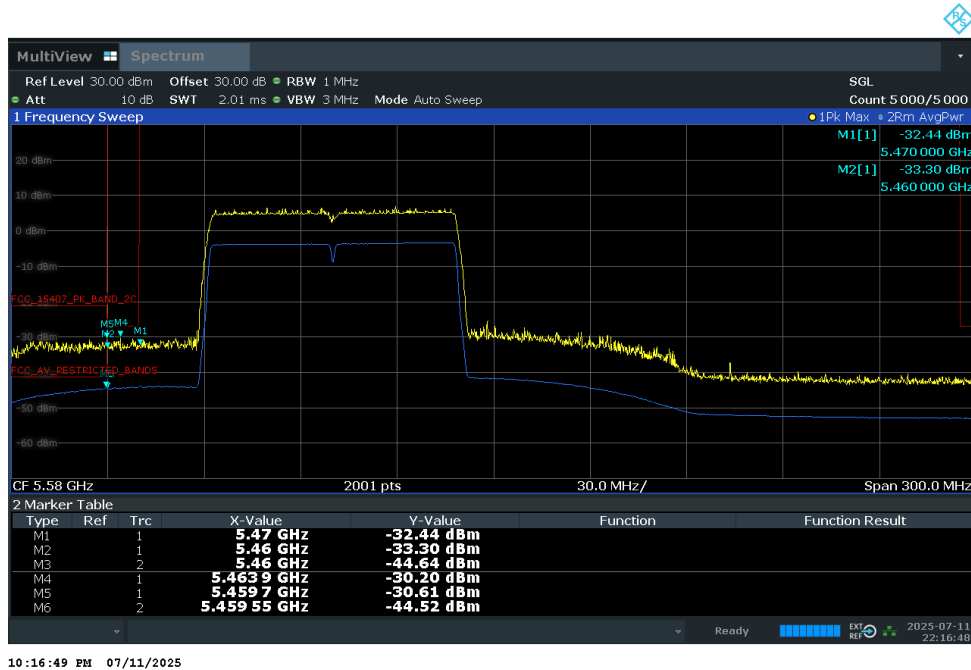
10:07:04 PM 07/11/2025

Radio Technology = WLAN ac 80 MHz, Operating Frequency = mid, Subband = U-NII-2A
(S01_AI02)



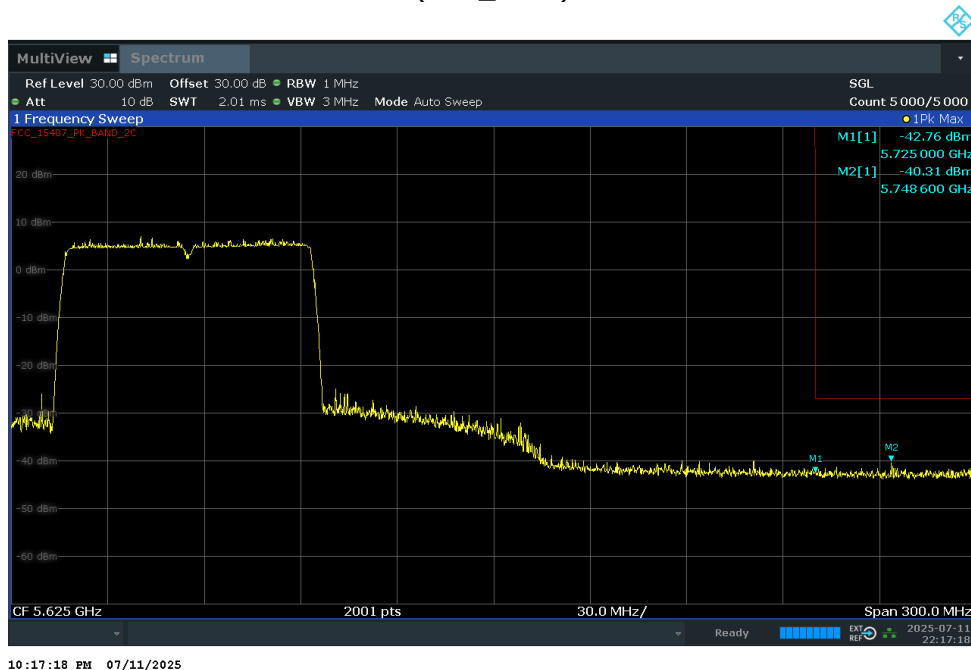
10:13:40 PM 07/11/2025

Radio Technology = WLAN ac 80 MHz, Operating Frequency = low, Subband = U-NII-2C (S01_AI02)



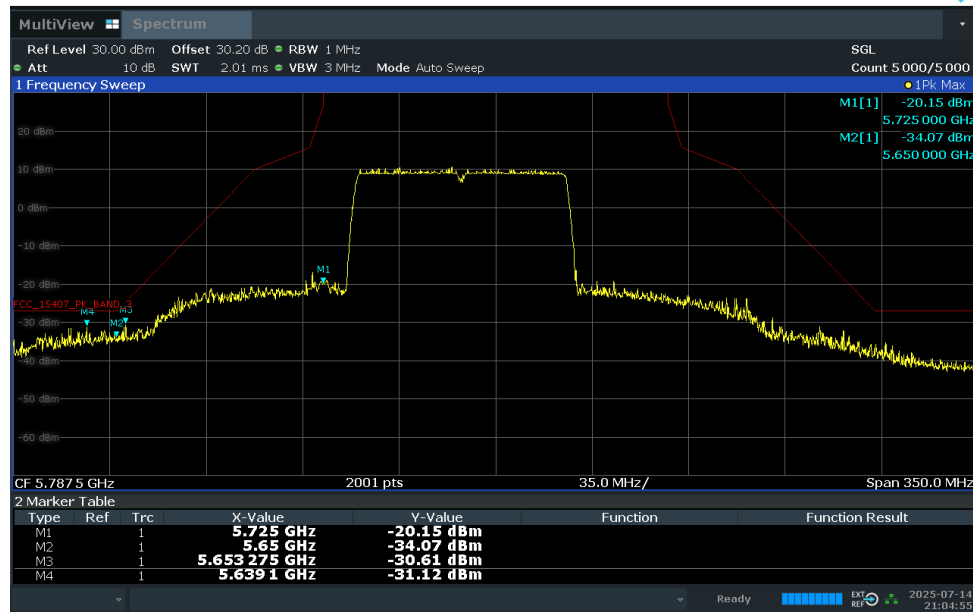
10:16:49 PM 07/11/2025

Radio Technology = WLAN ac 80 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)



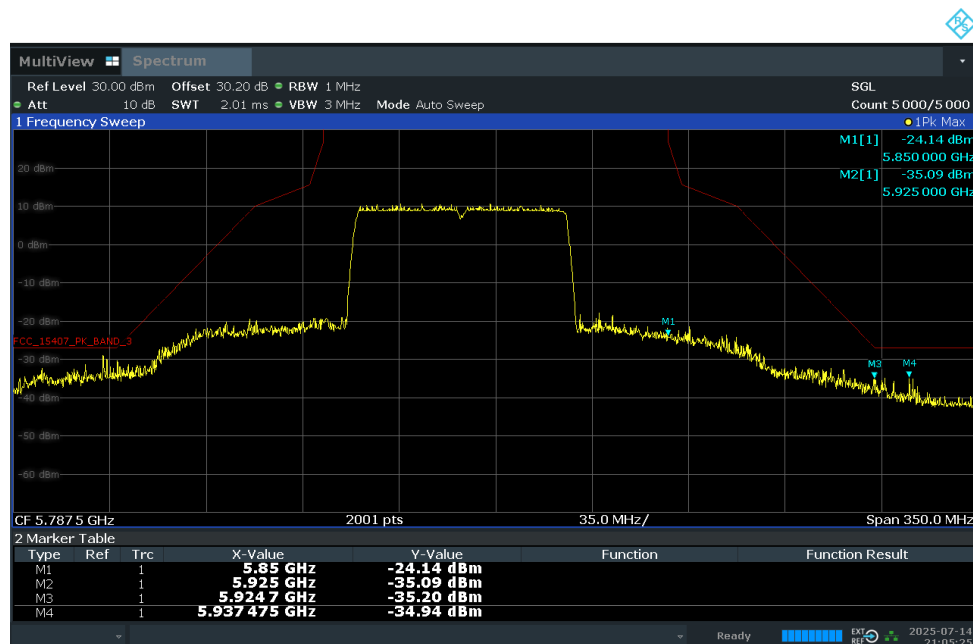
10:17:18 PM 07/11/2025

Radio Technology = WLAN ac 80 MHz, Operating Frequency = mid, Subband = U-NII-3
(S01_AI02)



09:04:56 PM 07/14/2025

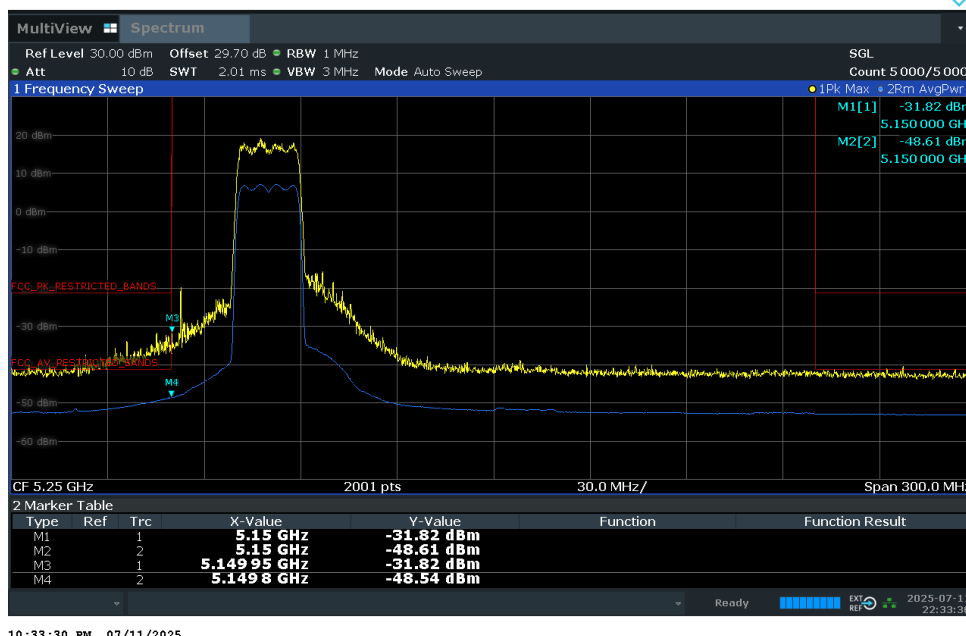
TX on 5775 MHz



09:05:26 PM 07/14/2025

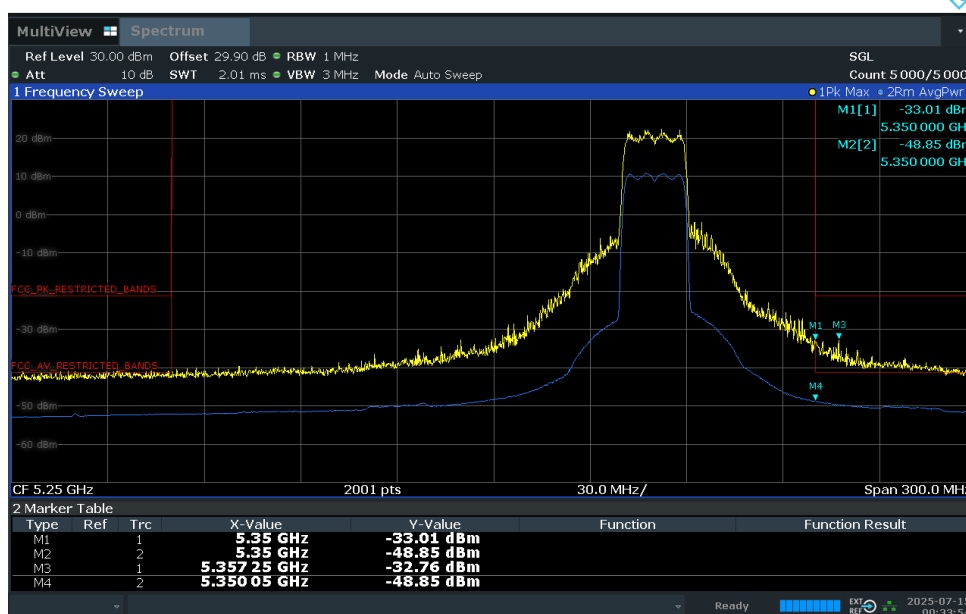
TX on 5775 MHz

Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-1 (S01_AI02)



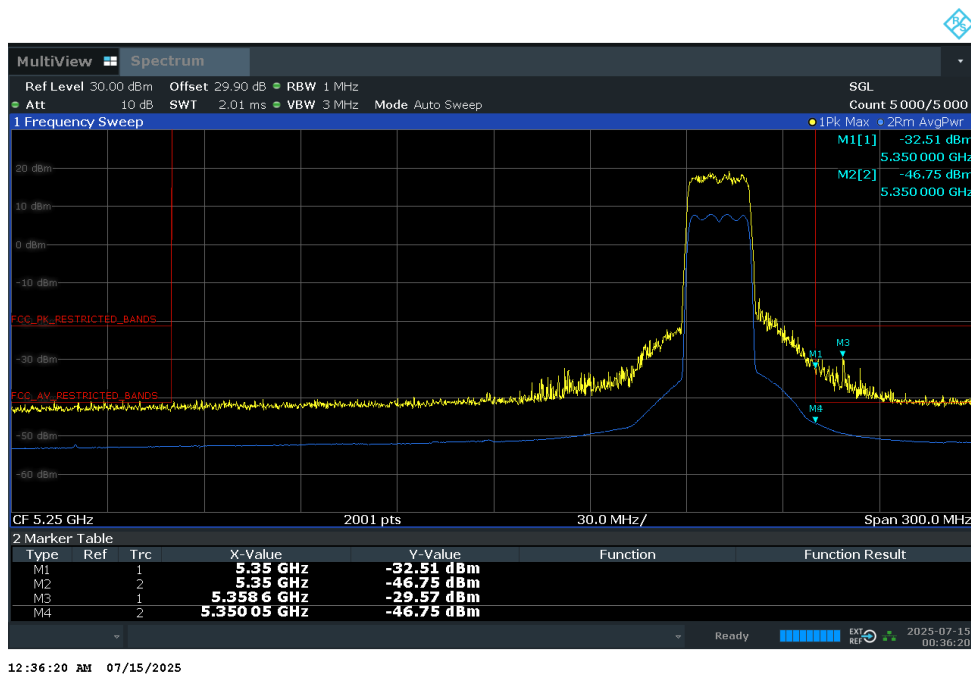
10:33:30 PM 07/11/2025

Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_AI02)



12:33:54 AM 07/15/2025

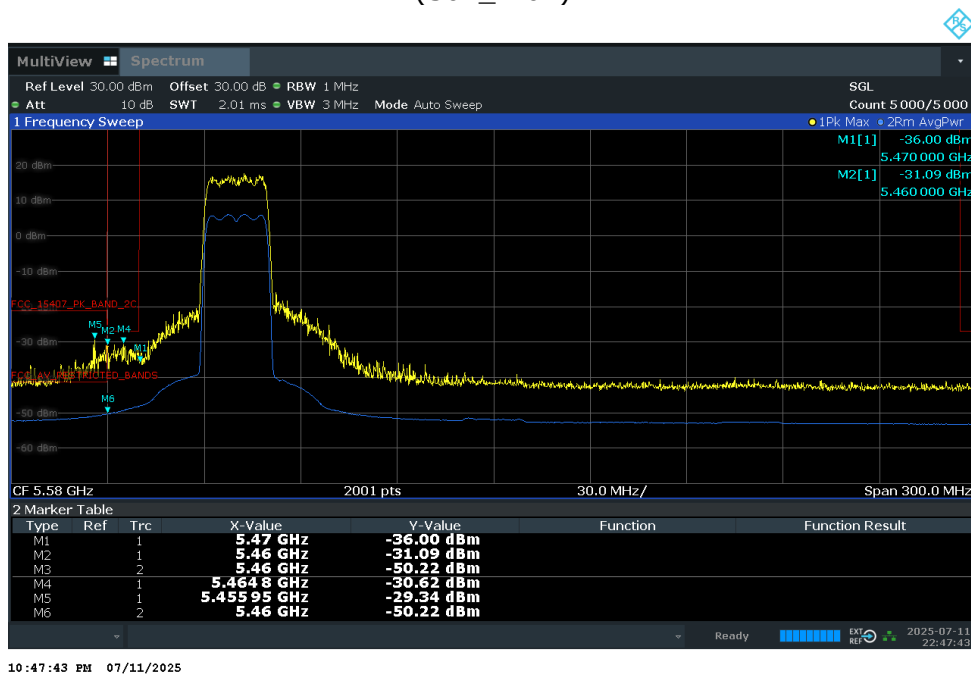
TX on 5300 MHz



12:36:20 AM 07/15/2025

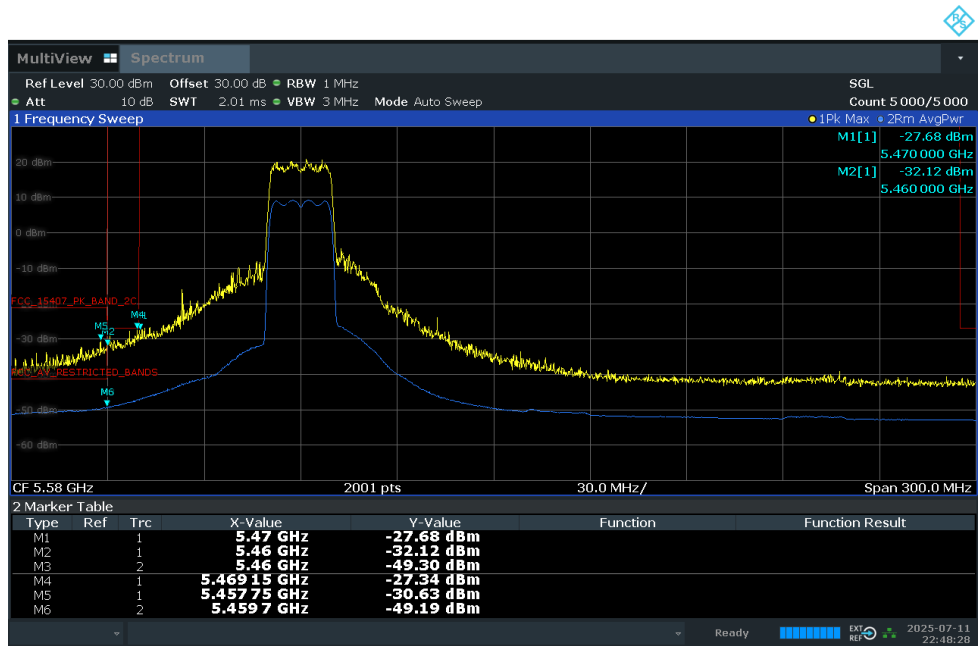
TX on 5320 MHz

Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S01_AI02)



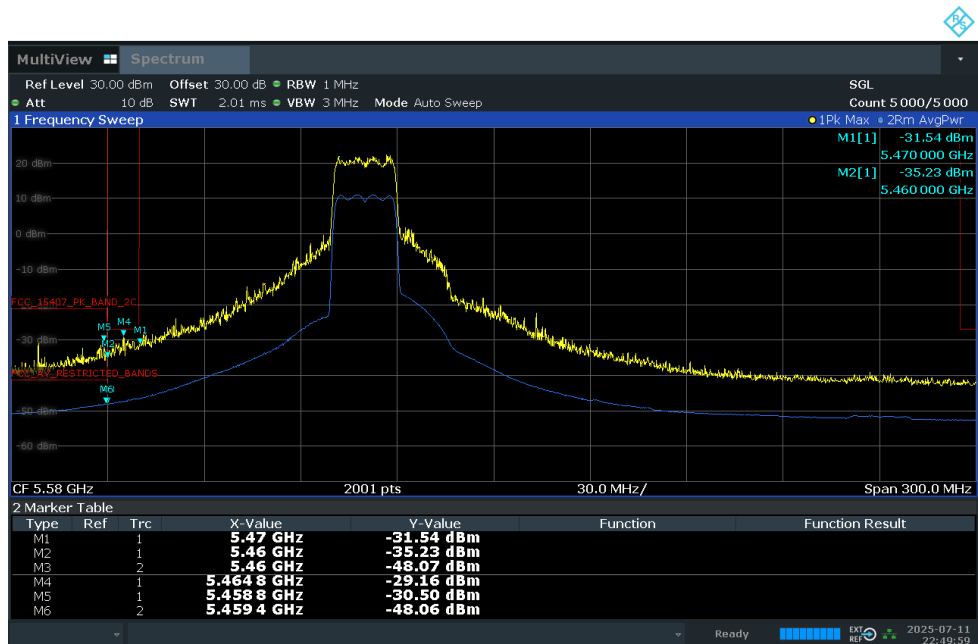
10:47:43 PM 07/11/2025

TX on 5500 MHz



10:48:28 PM 07/11/2025

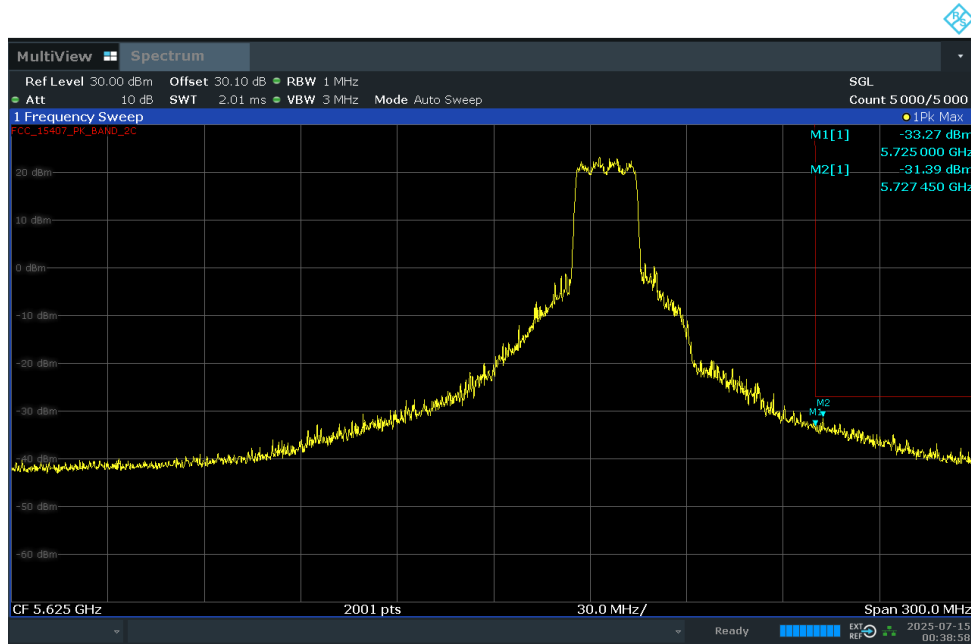
TX on 5520 MHz



10:49:59 PM 07/11/2025

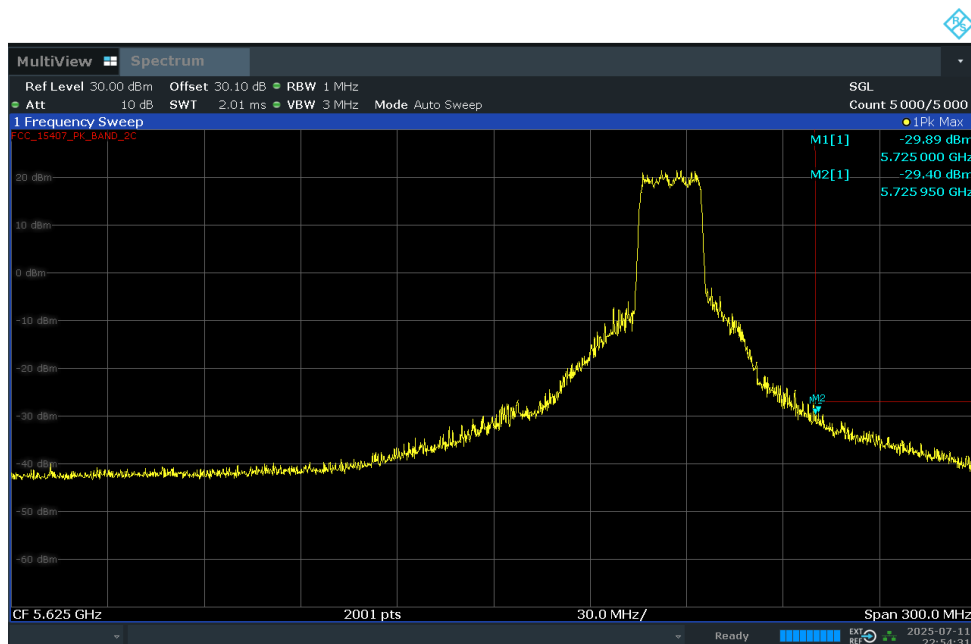
TX on 5540 MHz

Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)



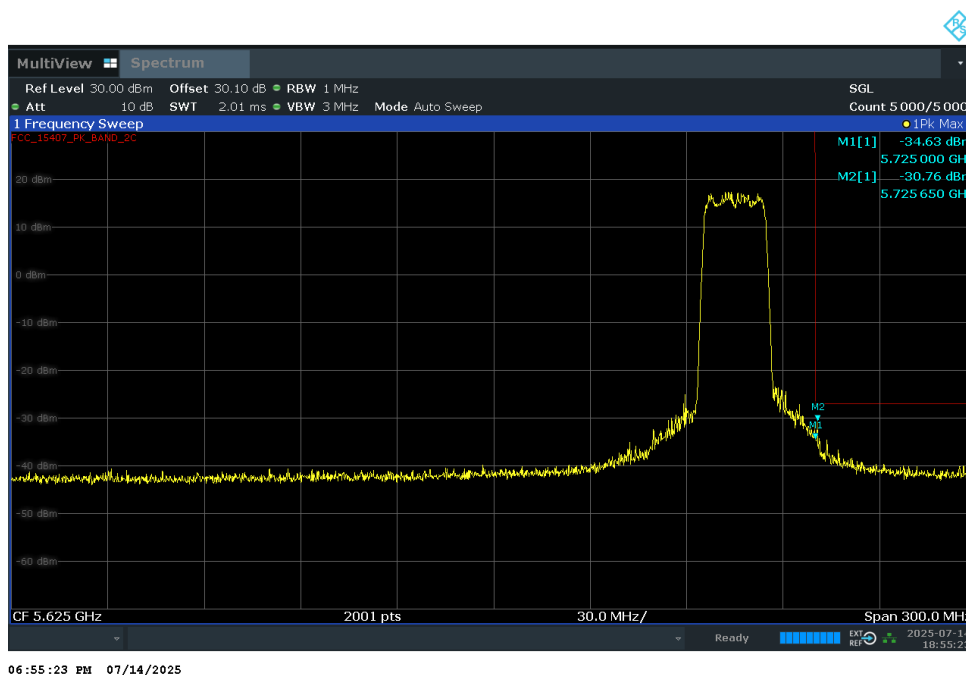
12:38:58 AM 07/15/2025

TX on 5660 MHz



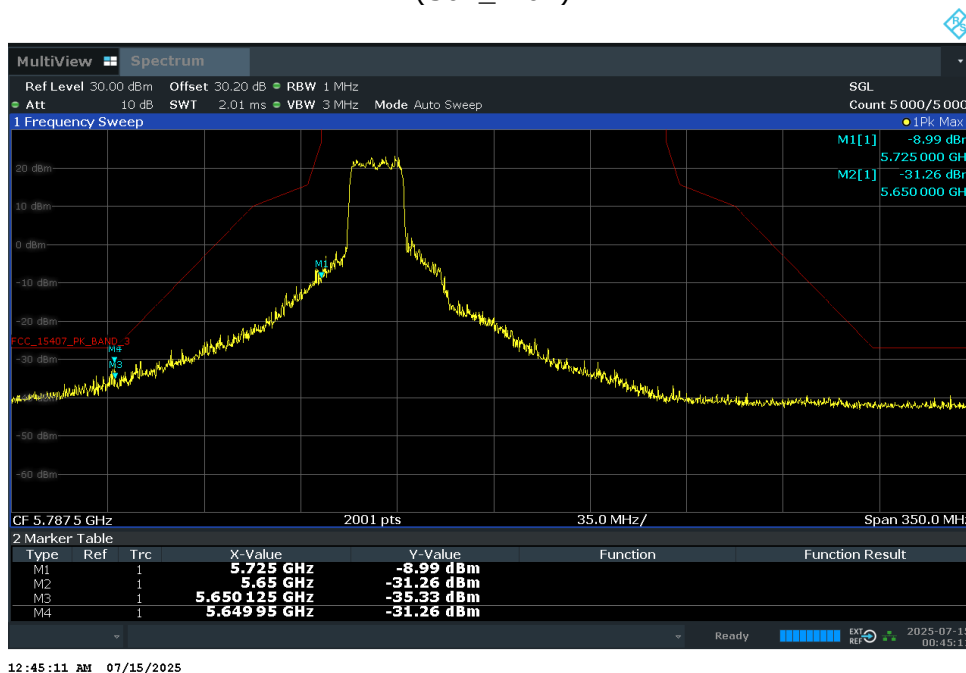
10:54:31 PM 07/11/2025

TX on 5680 MHz

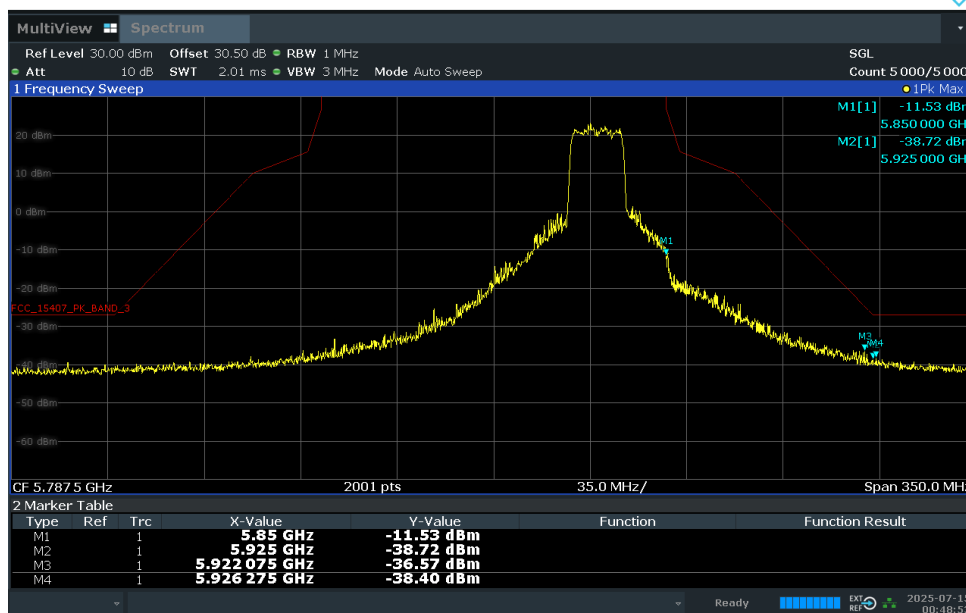


TX on 5700 MHz

Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-3 (S01_AI02)

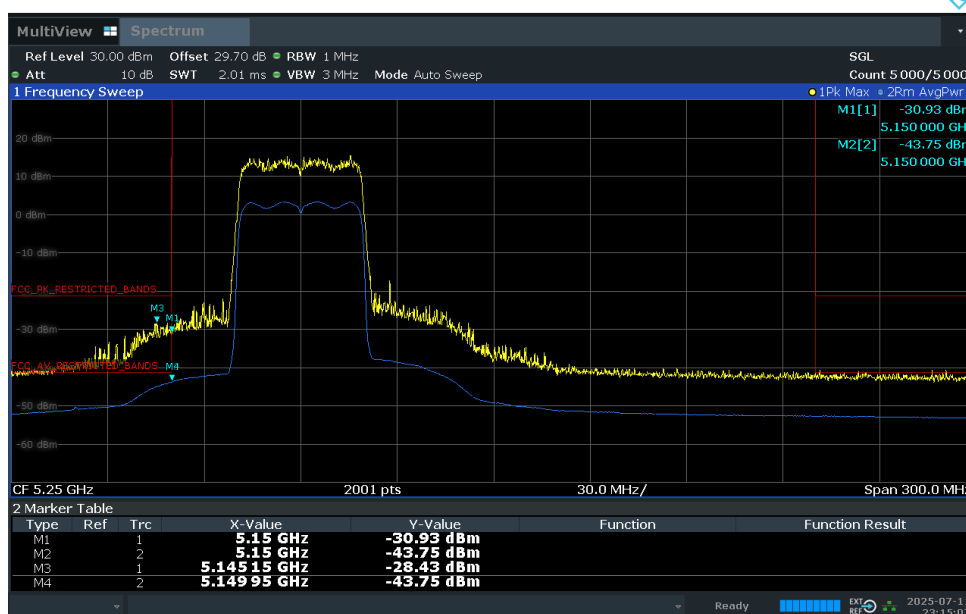


Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-3 (S01_AI02)



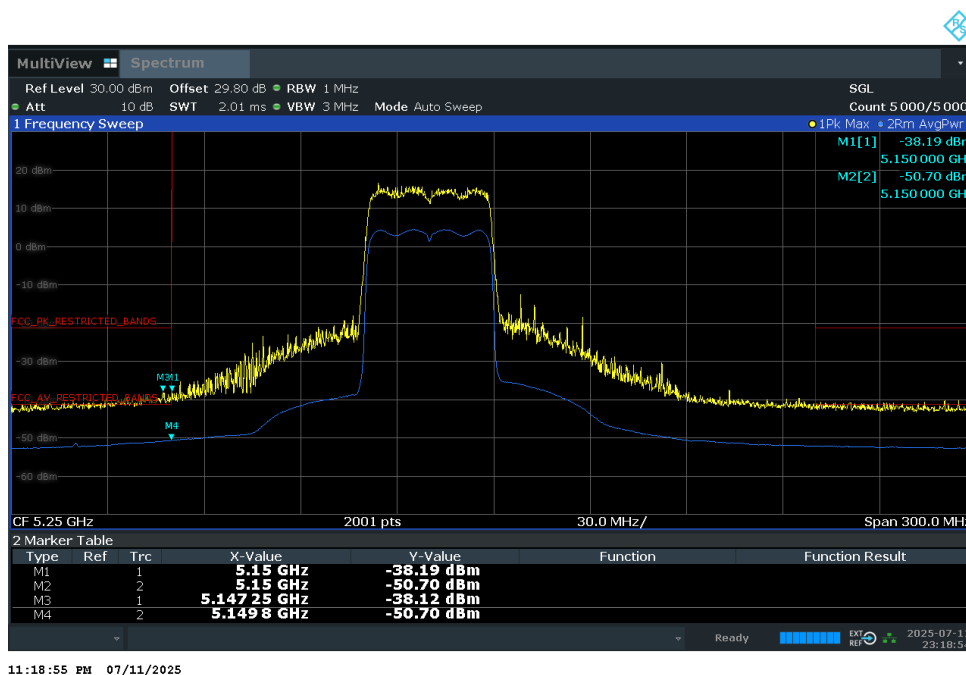
12:48:54 AM 07/15/2025

Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-1 (S01_AI02)



11:15:08 PM 07/11/2025

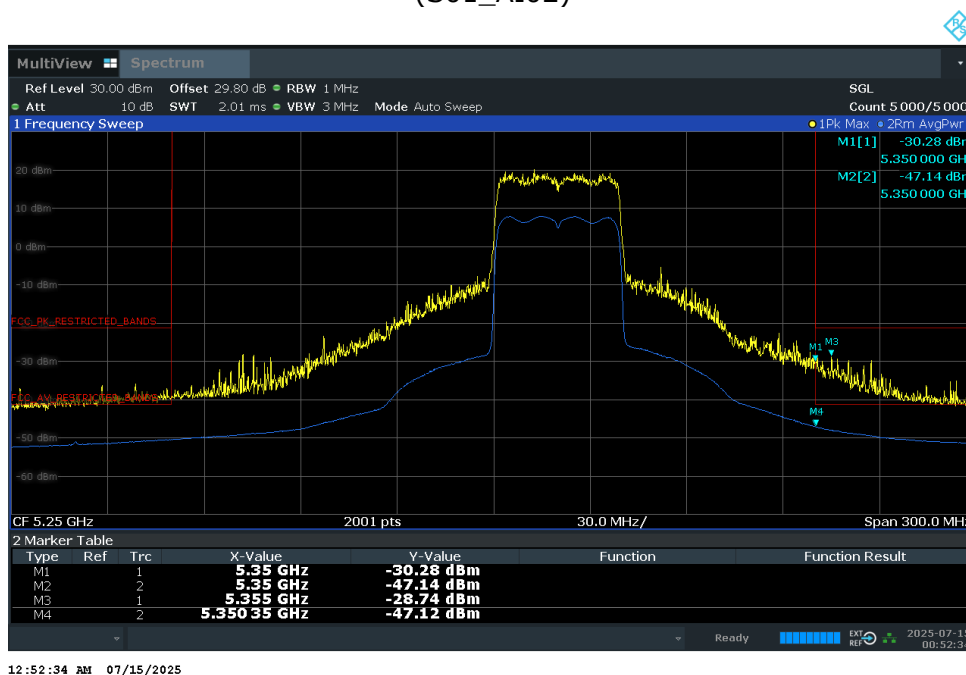
TX on 5190 MHz



11:18:55 PM 07/11/2025

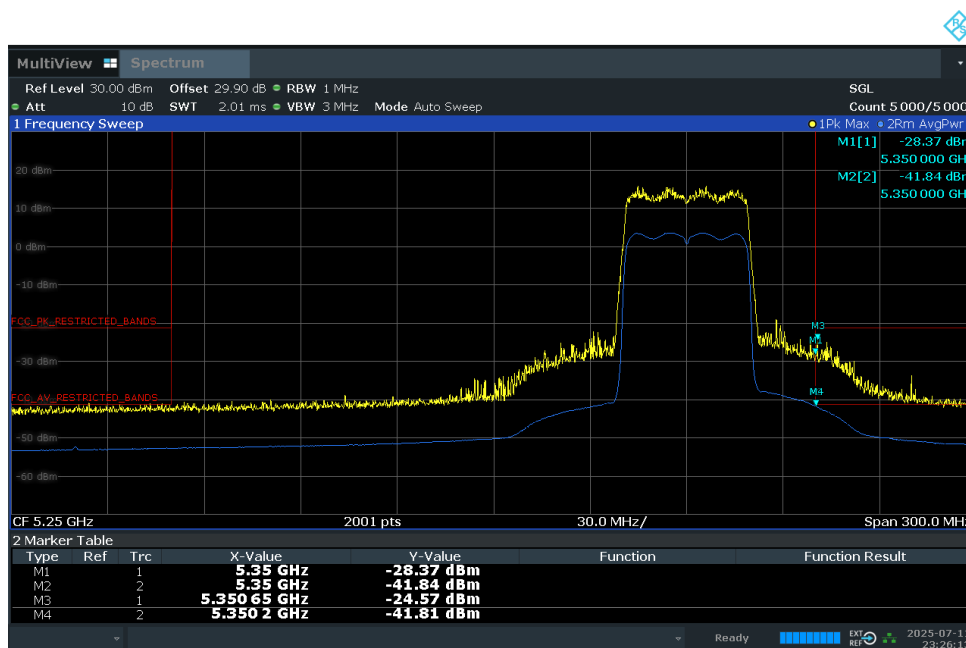
TX on 5230 MHz

Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_AI02)



12:52:34 AM 07/15/2025

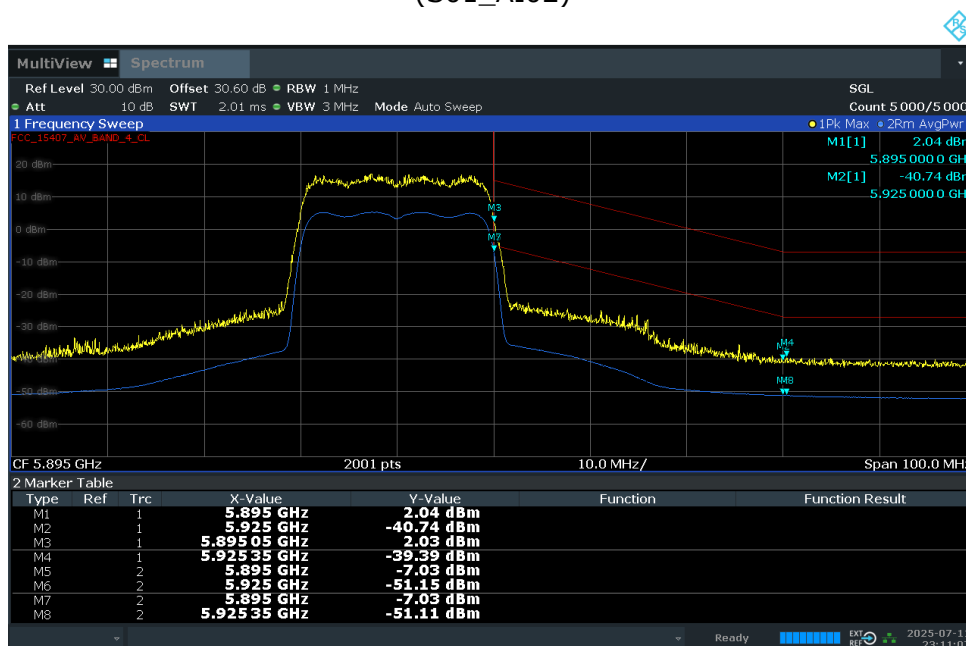
TX on 5270 MHz



11:26:14 PM 07/11/2025

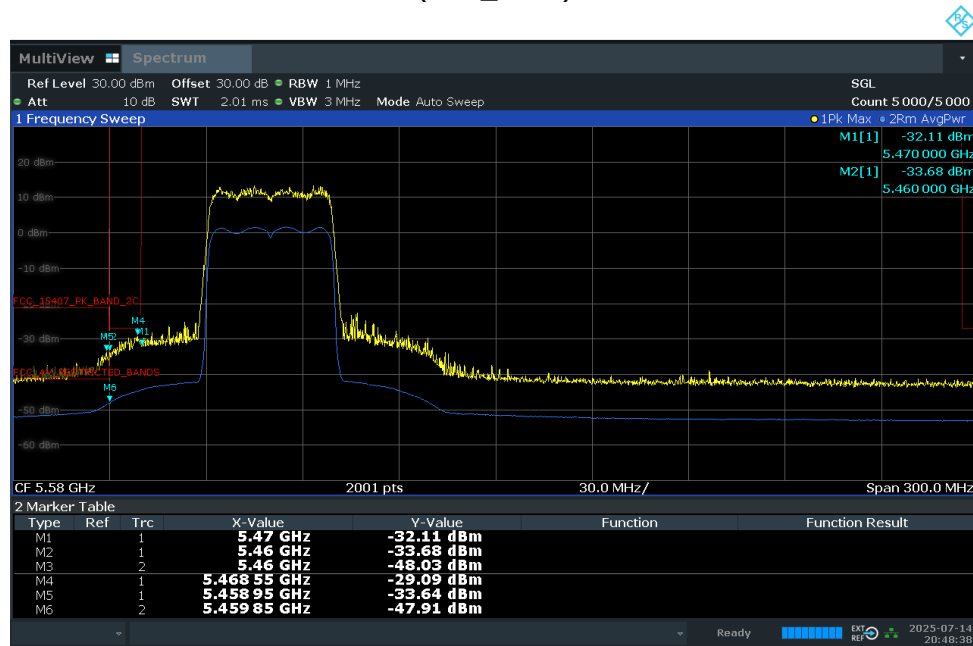
TX on 5310 MHz

Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-4 (S01_AI02)



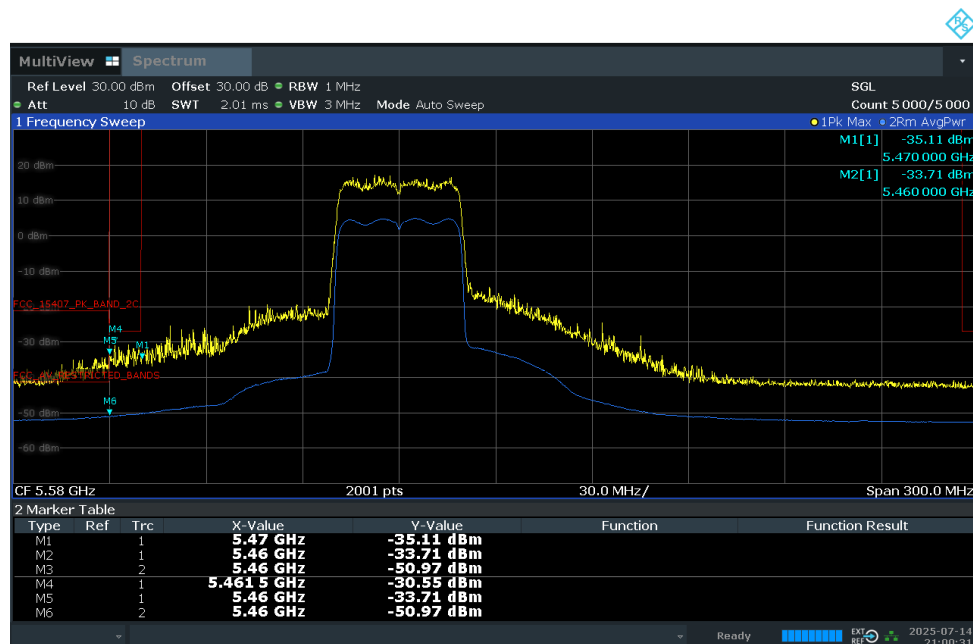
11:11:07 PM 07/11/2025

Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S01_AI02)



08:48:39 PM 07/14/2025

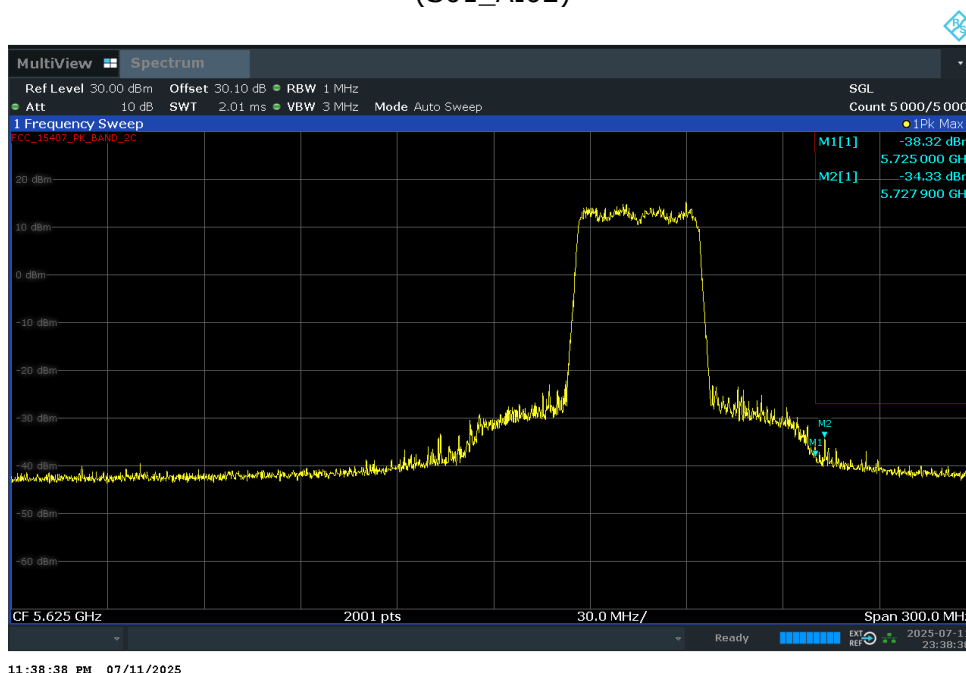
TX on 5510 MHz



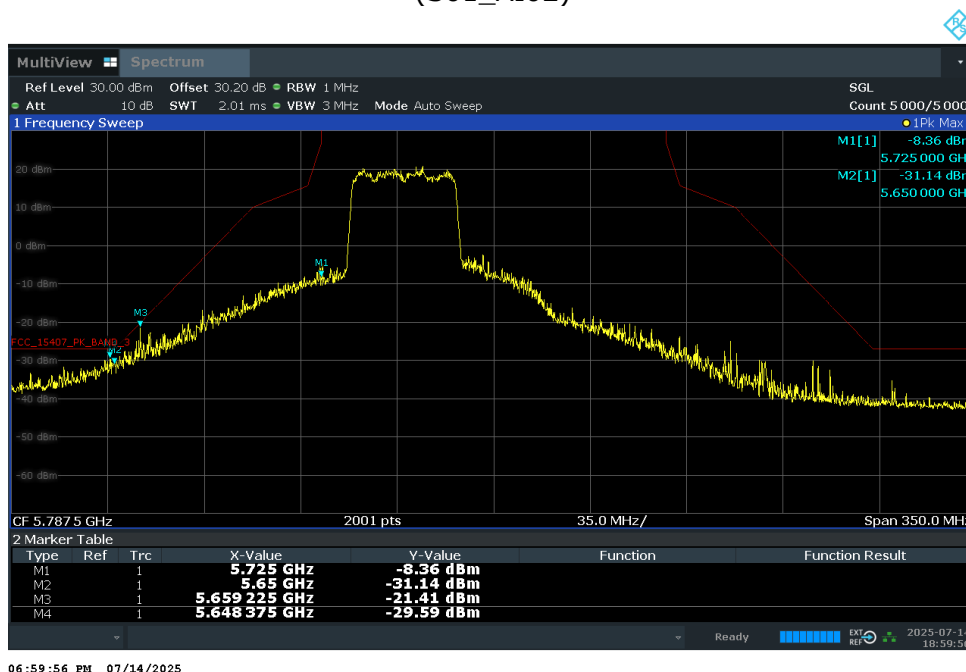
09:00:32 PM 07/14/2025

TX on 5550 MHz

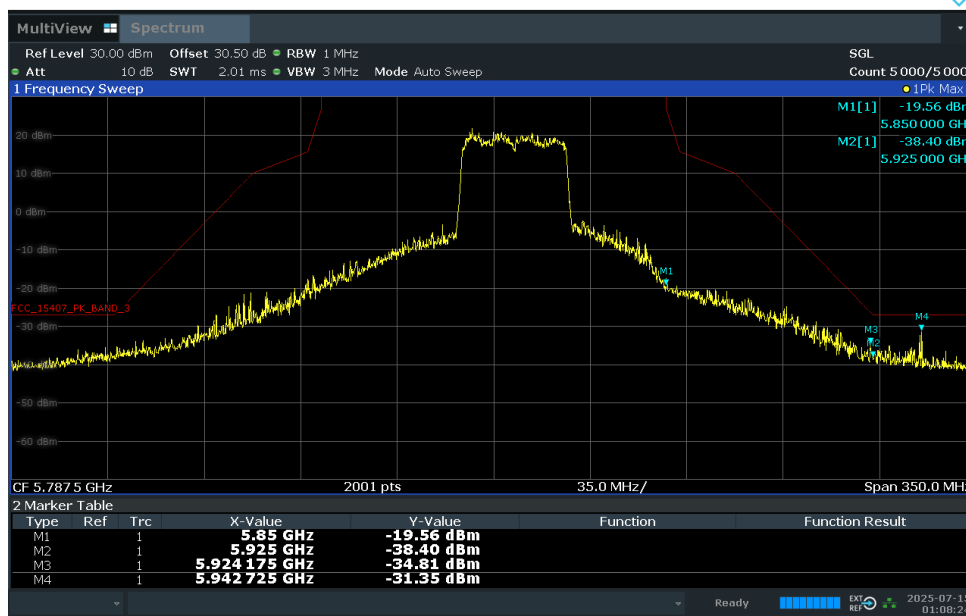
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AI02)



Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-3 (S01_AI02)

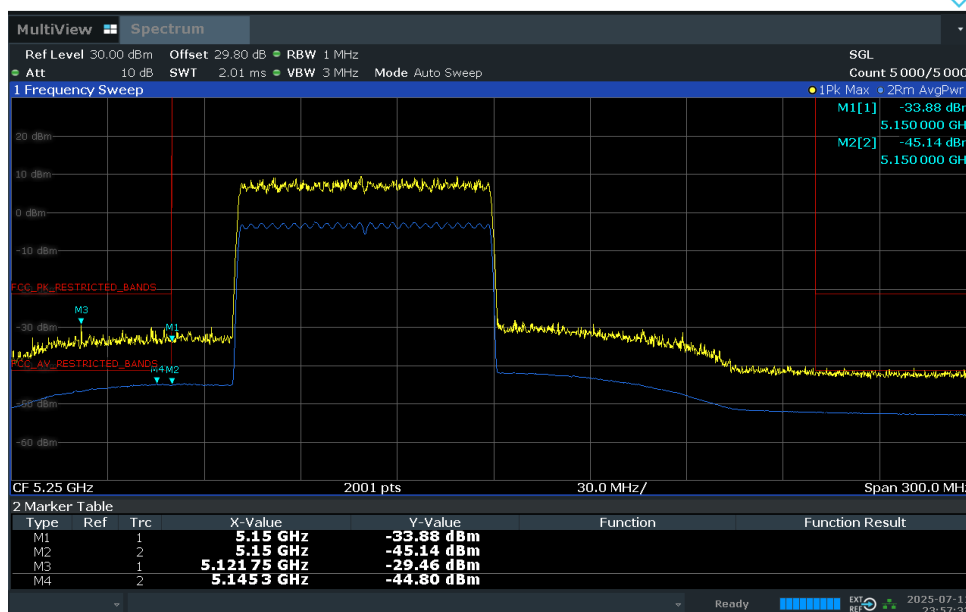


Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-3
(S01_AI02)



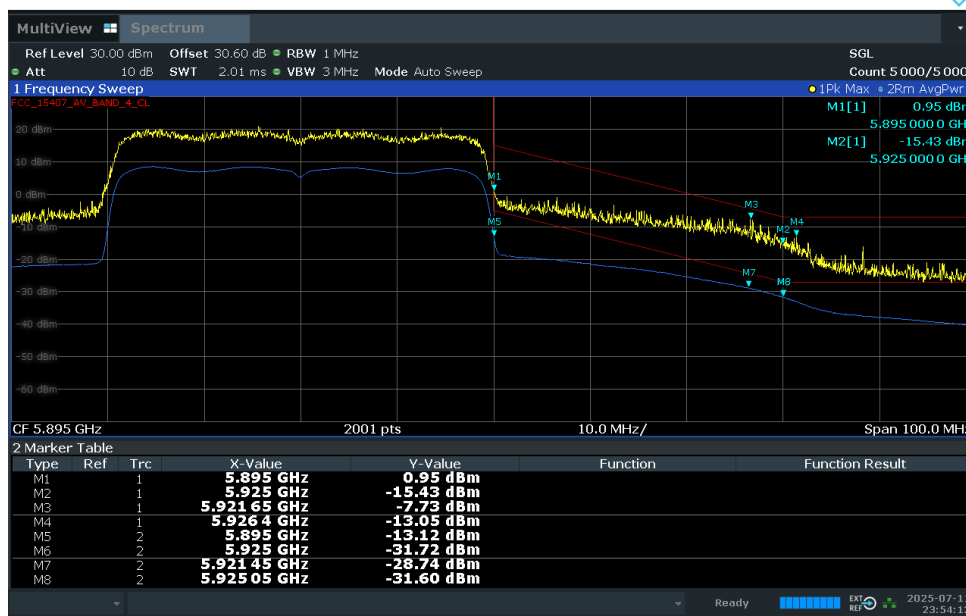
01:08:24 AM 07/15/2025

Radio Technology = WLAN ax 80 MHz, Operating Frequency = mid, Subband = U-NII-1
(S01_AI02)



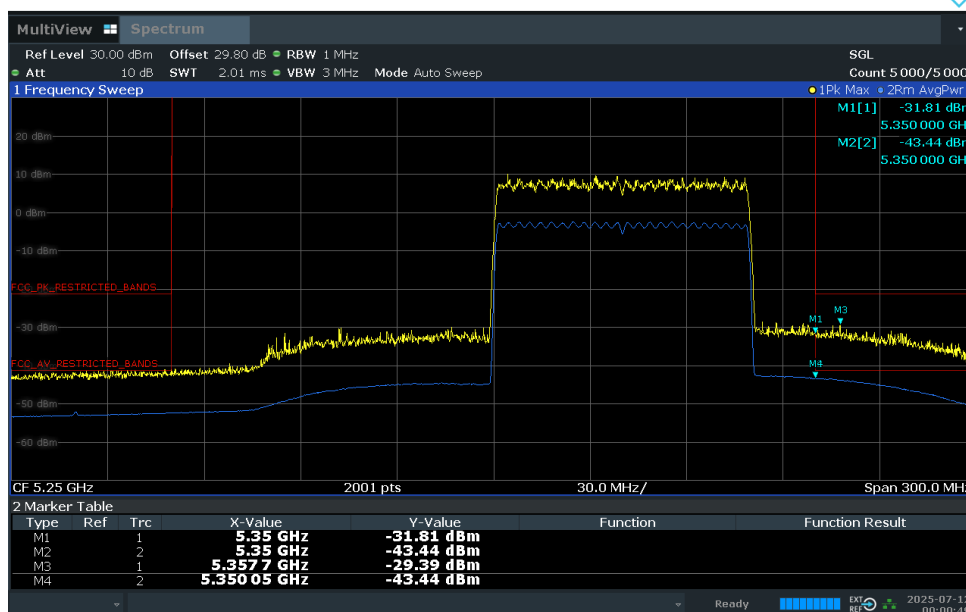
11:57:33 PM 07/11/2025

Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-4
(S01_AI02)



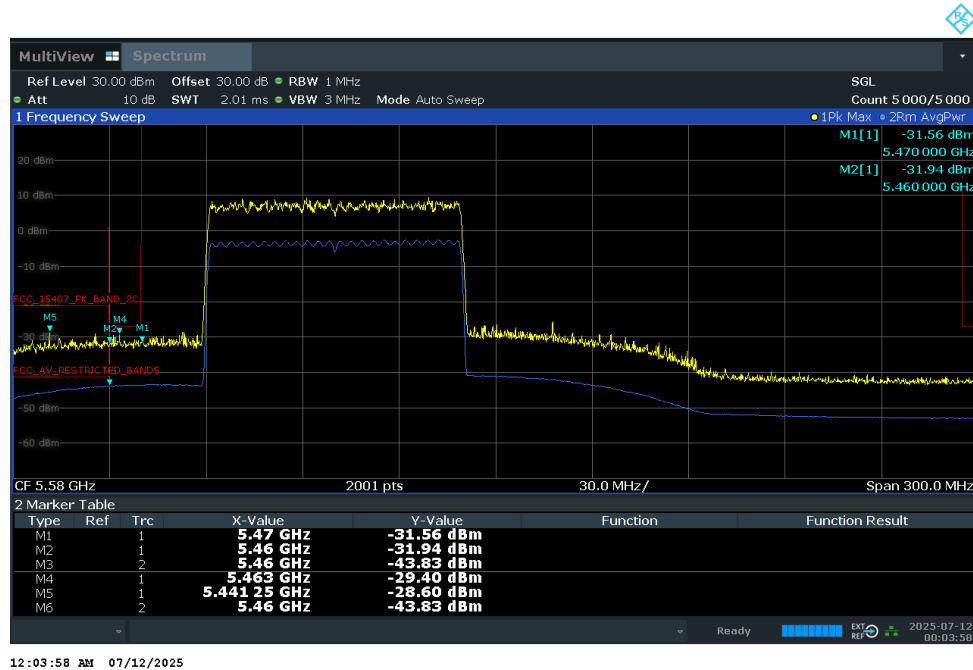
11:54:14 PM 07/11/2025

Radio Technology = WLAN ax 80 MHz, Operating Frequency = mid, Subband = U-NII-2A
(S01_AI02)

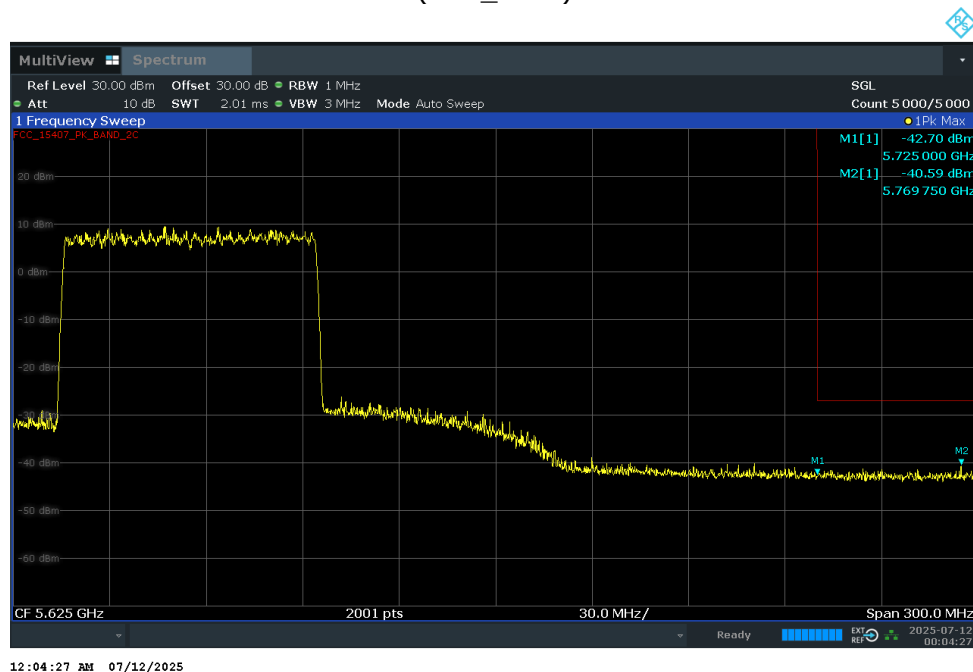


12:00:49 AM 07/12/2025

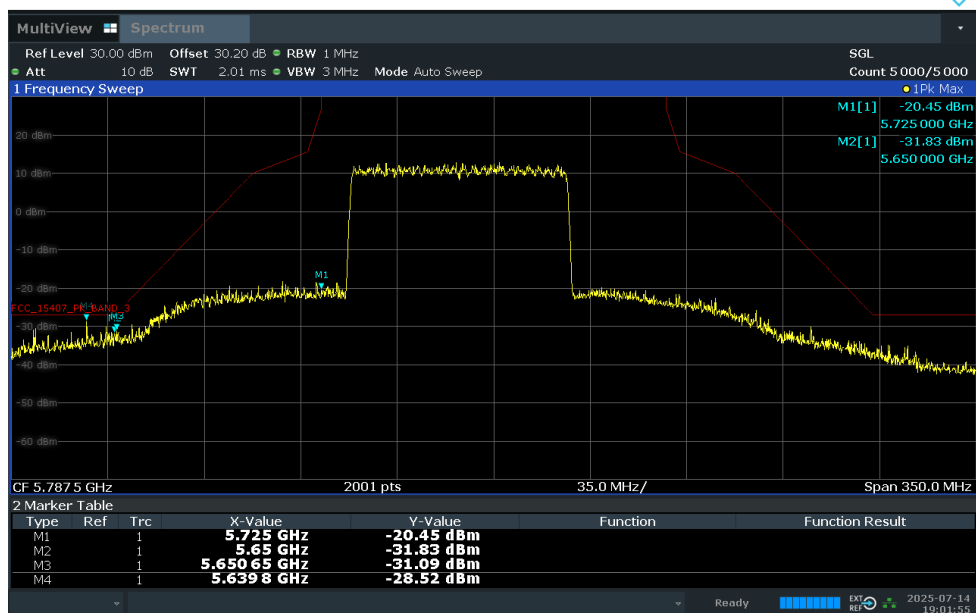
Radio Technology = WLAN ax 80 MHz, Operating Frequency = low, Subband = U-NII-2C
(S01_AI02)



Radio Technology = WLAN ax 80 MHz, Operating Frequency = high, Subband = U-NII-2C
(S01_AI02)

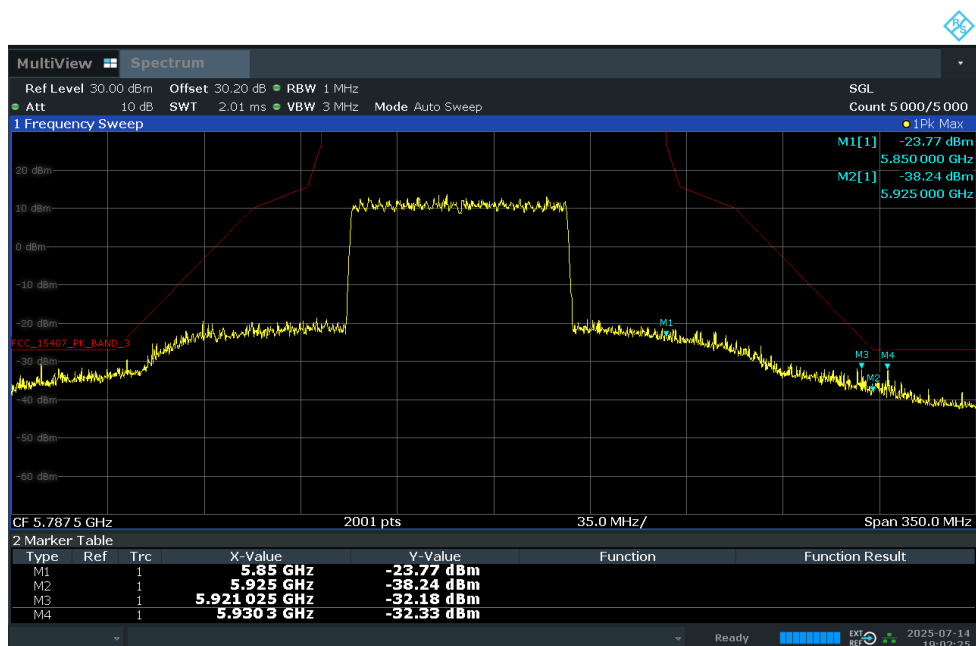


Radio Technology = WLAN ax 80 MHz, Operating Frequency = mid, Subband = U-NII-3
(S01_AI02)



07:01:55 PM 07/14/2025

TX on 5775 MHz



07:02:25 PM 07/14/2025

TX on 5775 MHz

5.7.5 TEST EQUIPMENT USED

- R&S TS8997

6 TEST EQUIPMENT

6.1 TEST EQUIPMENT HARDWARE

- 1 R&S TS8997
2.4 and 5 GHz Bands Conducted Test Lab

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
1.1	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
1.2	SMB100A	Signal Generator 9 kHz - 6 GHz	Rohde & Schwarz	107695	2024-07	2027-07
1.3	EX520	Digital Multimeter 12	Extech Instruments Corp	05157876	2024-12	2026-12
1.4	Opus10 THI (8152.00N)	T/H Logger 01	Lufft Mess- und Regeltechnik GmbH	5809	2023-12	2025-12
1.5	Temperature Chamber VT 4002	Temperature Chamber Vötsch 03	Vötsch	58566002150010	2024-07	2026-07
1.6	FSW43	Signal Analyser	Rohde & Schwarz GmbH & Co. KG	102013	2023-07	2025-07
1.7	Opus10 THI (8152.00)	T/H Logger 14	Lufft Mess- und Regeltechnik GmbH	13993	2023-12	2025-12
1.8	HMP2020	Programmable Power Supply	Rohde & Schwarz GmbH & Co. KG	101992	N/A	N/A
1.9	SMBV100A	Vector Signal Generator 9 kHz - 6 GHz	Rohde & Schwarz	259291	2023-01	2026-01
1.10	FSW26	Signal- & Spectrum-Analyzer	Rohde & Schwarz GmbH & Co. KG	104459	2025-06	2027-06
1.11	OSP120	Contains Power Meter and Switching Unit OSP-B157W8 PLUS	Rohde & Schwarz	101158	2024-08	2027-08
1.12	CS-RUB6	Rubidium Frequency Standard	Rohde & Schwarz GmbH & Co. KG	100321	2023-10	2025-10

- 2 Radiated Emissions FAR 5 GHz FCC
Radiated Emissions Tests for 5 GHz bands in a fully anechoic room

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
2.1	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
2.2	HL 562 ULTRALOG	Biconical-log-per antenna (30 MHz - 3 GHz) with HL 562E biconicals	Rohde & Schwarz GmbH & Co. KG	830547/003		
2.3	Innco Systems CO3000	Controller for bore sight mast FAC	innco systems GmbH	CO3000/1460/54 740522/P	N/A	N/A

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
2.4	AMF-7D00101800-30-10P-R	Broadband Amplifier 100 MHz - 18 GHz	Miteq		N/A	N/A
2.5	Anechoic Chamber 03	FAR, 8.80m x 4.60m x 4.05m (l x w x h)	Albatross Projects	P26971-647-001-PRB	N/A	N/A
2.6	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
2.7	JS4-18002600-32-5P	Broadband Amplifier 18 GHz - 26 GHz	Miteq	849785	N/A	N/A
2.8	FSW43	Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	103779	2024-12	2026-12
2.9	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
2.10	3160-09	Standard Gain / Pyramidal Horn Antenna 26.5 GHz	EMCO Elektronik GmbH	00083069	N/A	N/A
2.11	WHKX 7.0/18G-8SS	High Pass Filter	Wainwright Instruments GmbH	09	N/A	N/A
2.12	MA3000/0800-XP-ET-compact	Bore Sight Antenna Mast	innco systems GmbH	9210522	N/A	N/A
2.13	TT 1.5 WI	Turn Table	Maturo GmbH	-	N/A	N/A
2.14	3160-10	Standard Gain / Pyramidal Horn Antenna 40 GHz	EMCO Elektronik GmbH	00086675	N/A	N/A
2.15	Opus 20 THI (8120.00)	ThermoHygro Datalogger	Lufft Mess- und Regeltechnik GmbH	115.0318.0802.033	2023-08	2025-08
2.16	TD1.5-10kg	EUT Tilt Device (Rohacell)	Maturo GmbH	TD1.5-10kg/024/3790709	N/A	N/A
2.17	AFS42-00101800-25-S-42	Broadband Amplifier 25 MHz - 18 GHz	Miteq	2035324	N/A	N/A
2.18	HF 907	Double-ridged horn	Rohde & Schwarz	102444	2024-10	2027-10

3 Radiated Emissions SAC up to 1 GHz

Radiated emission tests up to 1 GHz in a semi anechoic room

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
3.1	N5000/NP	Filter for EUT, 2 Lines, 250 V, 16 A	ETS-LINDGREN	241515	N/A	N/A
3.2	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2023-12	2025-12
3.3	ESW44	EMI Receiver / Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	101603	2024-03	2026-03

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
3.4	Anechoic Chamber 01	SAC/FAR, 10.58 m x 6.38 m x 6.00 m	Frankonia Germany EMC Solution GmbH	none	N/A	N/A
3.5	HL 562 ULTRALOG	Biconical-log-per antenna (30 MHz - 3 GHz) with HL 562E biconicals	Rohde & Schwarz GmbH & Co. KG	830547/003		
3.6	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2023-08	2025-08
3.7	Opus10 THI (8152.00)	T/H Logger 10	Lufft Mess- und Regeltechnik GmbH	12488	2023-12	2025-12
3.8	EP 1200/B, NA/B1	AC Source, Amplifier with integrated variable Oscillator	Spitzenberger & Spies GmbH & Co. KG	B6278	N/A	N/A
3.9	DS 420S	Turn Table 2 m diameter	HD GmbH	420/573/99	N/A	N/A
3.10	HL562E ULTRALOG	Biconical-log-per Antenna (30 MHz - 6 GHz)	Rohde & Schwarz GmbH & Co. KG	102299	2024-07	2027-07
3.11	Chase CBL6111C + INMET 64671 18N-6dB	Hybrid Antenna with 6dB Attenuator		2624 Kartei-Nr E-003226/K1026	2023-03	2026-03
3.12	CS-RUB6	Rubidium Frequency Standard	Rohde & Schwarz GmbH & Co. KG	100321	2023-10	2025-10
3.13	AM 4.0	Antenna Mast 4 m	Maturo GmbH	AM4.0/180/1192 0513	N/A	N/A

The calibration interval is the time interval between "Last Calibration" and "Calibration Due"

6.2 TEST EQUIPMENT SOFTWARE

Semi-Anechoic Chamber:	
Software	Version
EMC32 Measurement Software	10.60.10
INNCO Mast Controller	1.02.62
INNCO Mast Height	34.10
INNCO Mast Elevation	36.11
MATURO Controller	1.24
MATURO Mast	12.19
MATURO Turn-Table	30.10
Fully-Anechoic Chamber:	
Software	Version
EMC32 Measurement Software	10.60.10
MATURO Controller	1.30
MATURO Turn-Unit	11.10
MATURO Mast	12.10
MATURO Turntable	12.11
INNCO Controller	1.03.02
INNCO Mast Height	34.10
INNCO Mast Elevation	36.11
TS 8997	
WMS32 Measurement Software	11.60.00 (till 2024-03-19), 11.70.00 + Hotfix 01
Conducted AC Emissions:	
Software	Version
EMC32 Measurement Software	10.60.20

7 ANTENNA FACTORS, CABLE LOSS AND SAMPLE CALCULATIONS

This chapter contains the antenna factors with their corresponding path loss of the used measurement path for all antennas as well as the insertion loss of the LISN.

7.1 LISN R&S ESH3-Z5 (150 KHZ – 30 MHZ)

Frequency		Corr.	LISN insertion loss ESH3-Z5	cable loss (incl. 10 dB atten- uator)
MHz		dB	dB	dB
0.15		10.1	0.1	10.0
5		10.3	0.1	10.2
7		10.5	0.2	10.3
10		10.5	0.2	10.3
12		10.7	0.3	10.4
14		10.7	0.3	10.4
16		10.8	0.4	10.4
18		10.9	0.4	10.5
20		10.9	0.4	10.5
22		11.1	0.5	10.6
24		11.1	0.5	10.6
26		11.2	0.5	10.7
28		11.2	0.5	10.7
30		11.3	0.5	10.8

Sample calculation

$$U_{\text{LISN}} (\text{dB } \mu\text{V}) = U (\text{dB } \mu\text{V}) + \text{Corr. (dB)}$$

U = Receiver reading

LISN Insertion loss = Voltage Division Factor of LISN

Corr. = sum of single correction factors of used LISN, cables, switch units (if used)

Linear interpolation will be used for frequencies in between the values in the table.

7.2 ANTENNA R&S HFH2-Z2 (9 KHZ – 30 MHZ)

Frequency	AF HFH- Z2)	Corr.	cable loss 1 (inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit)	cable loss 4 (to receiver)	distance corr. (-40 dB/ decade)	d _{Limit} (meas. distance (limit)	d _{used} (meas. distance (used)
MHz	dB (1/m)	dB	dB	dB	dB	dB	dB	m	m
0.009	20.50	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.01	20.45	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.015	20.37	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.02	20.36	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.025	20.38	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.03	20.32	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.05	20.35	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.08	20.30	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.1	20.20	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.2	20.17	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.3	20.14	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.49	20.12	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.490001	20.12	-39.6	0.1	0.1	0.1	0.1	-40	30	3
0.5	20.11	-39.6	0.1	0.1	0.1	0.1	-40	30	3
0.8	20.10	-39.6	0.1	0.1	0.1	0.1	-40	30	3
1	20.09	-39.6	0.1	0.1	0.1	0.1	-40	30	3
2	20.08	-39.6	0.1	0.1	0.1	0.1	-40	30	3
3	20.06	-39.6	0.1	0.1	0.1	0.1	-40	30	3
4	20.05	-39.5	0.2	0.1	0.1	0.1	-40	30	3
5	20.05	-39.5	0.2	0.1	0.1	0.1	-40	30	3
6	20.02	-39.5	0.2	0.1	0.1	0.1	-40	30	3
8	19.95	-39.5	0.2	0.1	0.1	0.1	-40	30	3
10	19.83	-39.4	0.2	0.1	0.2	0.1	-40	30	3
12	19.71	-39.4	0.2	0.1	0.2	0.1	-40	30	3
14	19.54	-39.4	0.2	0.1	0.2	0.1	-40	30	3
16	19.53	-39.3	0.3	0.1	0.2	0.1	-40	30	3
18	19.50	-39.3	0.3	0.1	0.2	0.1	-40	30	3
20	19.57	-39.3	0.3	0.1	0.2	0.1	-40	30	3
22	19.61	-39.3	0.3	0.1	0.2	0.1	-40	30	3
24	19.61	-39.3	0.3	0.1	0.2	0.1	-40	30	3
26	19.54	-39.3	0.3	0.1	0.2	0.1	-40	30	3
28	19.46	-39.2	0.3	0.1	0.3	0.1	-40	30	3
30	19.73	-39.1	0.4	0.1	0.3	0.1	-40	30	3

Sample calculation

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

distance correction = $-40 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$

Linear interpolation will be used for frequencies in between the values in the table.

Table shows an extract of values

7.3 ANTENNA R&S HL562 (30 MHz – 1 GHz)

($d_{\text{Limit}} = 3 \text{ m}$)

Frequency	AF R&S HL562	Corr.
MHz	dB (1/m)	dB
30	18.6	0.6
50	6.0	0.9
100	9.7	1.2
150	7.9	1.6
200	7.6	1.9
250	9.5	2.1
300	11.0	2.3
350	12.4	2.6
400	13.6	2.9
450	14.7	3.1
500	15.6	3.2
550	16.3	3.5
600	17.2	3.5
650	18.1	3.6
700	18.5	3.6
750	19.1	4.1
800	19.6	4.1
850	20.1	4.4
900	20.8	4.7
950	21.1	4.8
1000	21.6	4.9

cable loss 1 (inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit)	cable loss 4 (to receiver)	distance corr. (-20 dB/ decade)	d_{Limit} (meas. distance (limit))	d_{used} (meas. distance (used))
dB	dB	dB	dB	dB	m	m
0.29	0.04	0.23	0.02	0.0	3	3
0.39	0.09	0.32	0.08	0.0	3	3
0.56	0.14	0.47	0.08	0.0	3	3
0.73	0.20	0.59	0.12	0.0	3	3
0.84	0.21	0.70	0.11	0.0	3	3
0.98	0.24	0.80	0.13	0.0	3	3
1.04	0.26	0.89	0.15	0.0	3	3
1.18	0.31	0.96	0.13	0.0	3	3
1.28	0.35	1.03	0.19	0.0	3	3
1.39	0.38	1.11	0.22	0.0	3	3
1.44	0.39	1.20	0.19	0.0	3	3
1.55	0.46	1.24	0.23	0.0	3	3
1.59	0.43	1.29	0.23	0.0	3	3
1.67	0.34	1.35	0.22	0.0	3	3
1.67	0.42	1.41	0.15	0.0	3	3
1.87	0.54	1.46	0.25	0.0	3	3
1.90	0.46	1.51	0.25	0.0	3	3
1.99	0.60	1.56	0.27	0.0	3	3
2.14	0.60	1.63	0.29	0.0	3	3
2.22	0.60	1.66	0.33	0.0	3	3
2.23	0.61	1.71	0.30	0.0	3	3

($d_{\text{Limit}} = 10 \text{ m}$)

30	18.6	-9.9
50	6.0	-9.6
100	9.7	-9.2
150	7.9	-8.8
200	7.6	-8.6
250	9.5	-8.3
300	11.0	-8.1
350	12.4	-7.9
400	13.6	-7.6
450	14.7	-7.4
500	15.6	-7.2
550	16.3	-7.0
600	17.2	-6.9
650	18.1	-6.9
700	18.5	-6.8
750	19.1	-6.3
800	19.6	-6.3
850	20.1	-6.0
900	20.8	-5.8
950	21.1	-5.6
1000	21.6	-5.6

0.29	0.04	0.23	0.02	-10.5	10	3
0.39	0.09	0.32	0.08	-10.5	10	3
0.56	0.14	0.47	0.08	-10.5	10	3
0.73	0.20	0.59	0.12	-10.5	10	3
0.84	0.21	0.70	0.11	-10.5	10	3
0.98	0.24	0.80	0.13	-10.5	10	3
1.04	0.26	0.89	0.15	-10.5	10	3
1.18	0.31	0.96	0.13	-10.5	10	3
1.28	0.35	1.03	0.19	-10.5	10	3
1.39	0.38	1.11	0.22	-10.5	10	3
1.44	0.39	1.20	0.19	-10.5	10	3
1.55	0.46	1.24	0.23	-10.5	10	3
1.59	0.43	1.29	0.23	-10.5	10	3
1.67	0.34	1.35	0.22	-10.5	10	3
1.67	0.42	1.41	0.15	-10.5	10	3
1.87	0.54	1.46	0.25	-10.5	10	3
1.90	0.46	1.51	0.25	-10.5	10	3
1.99	0.60	1.56	0.27	-10.5	10	3
2.14	0.60	1.63	0.29	-10.5	10	3
2.22	0.60	1.66	0.33	-10.5	10	3
2.23	0.61	1.71	0.30	-10.5	10	3

Sample calculation

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + \text{AF (dB 1/m)} + \text{Corr. (dB)}$
 U = Receiver reading
 AF = Antenna factor
 Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)
 $\text{distance correction} = -20 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$
 Linear interpolation will be used for frequencies in between the values in the table.
 Tables show an extract of values.

7.4 ANTENNA R&S HF907 (1 GHZ – 18 GHZ)

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
1000	24.4	-19.4
2000	28.5	-17.4
3000	31.0	-16.1
4000	33.1	-14.7
5000	34.4	-13.7
6000	34.7	-12.7
7000	35.6	-11.0

cable loss 1 (relay + cable inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit, atten- uator & pre-amp)	cable loss 4 (to receiver)		
dB	dB	dB	dB		
0.99	0.31	-21.51	0.79		
1.44	0.44	-20.63	1.38		
1.87	0.53	-19.85	1.33		
2.41	0.67	-19.13	1.31		
2.78	0.86	-18.71	1.40		
2.74	0.90	-17.83	1.47		
2.82	0.86	-16.19	1.46		

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
3000	31.0	-23.4
4000	33.1	-23.3
5000	34.4	-21.7
6000	34.7	-21.2
7000	35.6	-19.8

cable loss 1 (relay inside chamber)	cable loss 2 (inside chamber)	cable loss 3 (outside chamber)	cable loss 4 (switch unit, atten- uator & pre-amp)	cable loss 5 (to receiver)	used for FCC 15.247
dB	dB	dB	dB	dB	
0.47	1.87	0.53	-27.58	1.33	
0.56	2.41	0.67	-28.23	1.31	
0.61	2.78	0.86	-27.35	1.40	
0.58	2.74	0.90	-26.89	1.47	
0.66	2.82	0.86	-25.58	1.46	

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
7000	35.6	-57.3
8000	36.3	-56.3
9000	37.1	-55.3
10000	37.5	-56.2
11000	37.5	-55.3
12000	37.6	-53.7
13000	38.2	-53.5
14000	39.9	-56.3
15000	40.9	-54.1
16000	41.3	-54.1
17000	42.8	-54.4
18000	44.2	-54.7

cable loss 1 (relay inside chamber)	cable loss 2 (High Pass)	cable loss 3 (pre- amp)	cable loss 4 (inside chamber)	cable loss 5 (outside chamber)	cable loss 6 (to receiver)
dB	dB	dB	dB	dB	dB
0.56	1.28	-62.72	2.66	0.94	1.46
0.69	0.71	-61.49	2.84	1.00	1.53
0.68	0.65	-60.80	3.06	1.09	1.60
0.70	0.54	-61.91	3.28	1.20	1.67
0.80	0.61	-61.40	3.43	1.27	1.70
0.84	0.42	-59.70	3.53	1.26	1.73
0.83	0.44	-59.81	3.75	1.32	1.83
0.91	0.53	-63.03	3.91	1.40	1.77
0.98	0.54	-61.05	4.02	1.44	1.83
1.23	0.49	-61.51	4.17	1.51	1.85
1.36	0.76	-62.36	4.34	1.53	2.00
1.70	0.53	-62.88	4.41	1.55	1.91

Sample calculation

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

Linear interpolation will be used for frequencies in between the values in the table.

Tables show an extract of values.

7.5 ANTENNA EMCO 3160-09 (18 GHZ – 26.5 GHZ)

Frequency	AF EMCO 3160-09	Corr.	cable loss 1 (inside chamber)	cable loss 2 (pre- amp)	cable loss 3 (inside chamber)	cable loss 4 (switch unit)	cable loss 5 (to receiver)
MHz	dB (1/m)	dB	dB	dB	dB	dB	dB
18000	40.2	-23.5	0.72	-35.85	6.20	2.81	2.65
18500	40.2	-23.2	0.69	-35.71	6.46	2.76	2.59
19000	40.2	-22.0	0.76	-35.44	6.69	3.15	2.79
19500	40.3	-21.3	0.74	-35.07	7.04	3.11	2.91
20000	40.3	-20.3	0.72	-34.49	7.30	3.07	3.05
20500	40.3	-19.9	0.78	-34.46	7.48	3.12	3.15
21000	40.3	-19.1	0.87	-34.07	7.61	3.20	3.33
21500	40.3	-19.1	0.90	-33.96	7.47	3.28	3.19
22000	40.3	-18.7	0.89	-33.57	7.34	3.35	3.28
22500	40.4	-19.0	0.87	-33.66	7.06	3.75	2.94
23000	40.4	-19.5	0.88	-33.75	6.92	3.77	2.70
23500	40.4	-19.3	0.90	-33.35	6.99	3.52	2.66
24000	40.4	-19.8	0.88	-33.99	6.88	3.88	2.58
24500	40.4	-19.5	0.91	-33.89	7.01	3.93	2.51
25000	40.4	-19.3	0.88	-33.00	6.72	3.96	2.14
25500	40.5	-20.4	0.89	-34.07	6.90	3.66	2.22
26000	40.5	-21.3	0.86	-35.11	7.02	3.69	2.28
26500	40.5	-21.1	0.90	-35.20	7.15	3.91	2.36

Sample calculation

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

Linear interpolation will be used for frequencies in between the values in the table.

Table shows an extract of values.

7.6 ANTENNA EMCO 3160-10 (26.5 GHZ – 40 GHZ)

Frequency GHz	AF EMCO 3160-10 dB (1/m)	Corr. dB	cable loss 1 (inside chamber) dB	cable loss 2 (outside chamber) dB	cable loss 3 (switch unit) dB	cable loss 4 (to receiver) dB	distance corr. (-20 dB/ decade) dB	d _{Limit} (meas. distance (limit) m	d _{used} (meas. distance (used) m
26.5	43.4	-11.2	4.4				-9.5	3	1.0
27.0	43.4	-11.2	4.4				-9.5	3	1.0
28.0	43.4	-11.1	4.5				-9.5	3	1.0
29.0	43.5	-11.0	4.6				-9.5	3	1.0
30.0	43.5	-10.9	4.7				-9.5	3	1.0
31.0	43.5	-10.8	4.7				-9.5	3	1.0
32.0	43.5	-10.7	4.8				-9.5	3	1.0
33.0	43.6	-10.7	4.9				-9.5	3	1.0
34.0	43.6	-10.6	5.0				-9.5	3	1.0
35.0	43.6	-10.5	5.1				-9.5	3	1.0
36.0	43.6	-10.4	5.1				-9.5	3	1.0
37.0	43.7	-10.3	5.2				-9.5	3	1.0
38.0	43.7	-10.2	5.3				-9.5	3	1.0
39.0	43.7	-10.2	5.4				-9.5	3	1.0
40.0	43.8	-10.1	5.5				-9.5	3	1.0

Sample calculation

$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

Linear interpolation will be used for frequencies in between the values in the table.

distance correction = $-20 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$

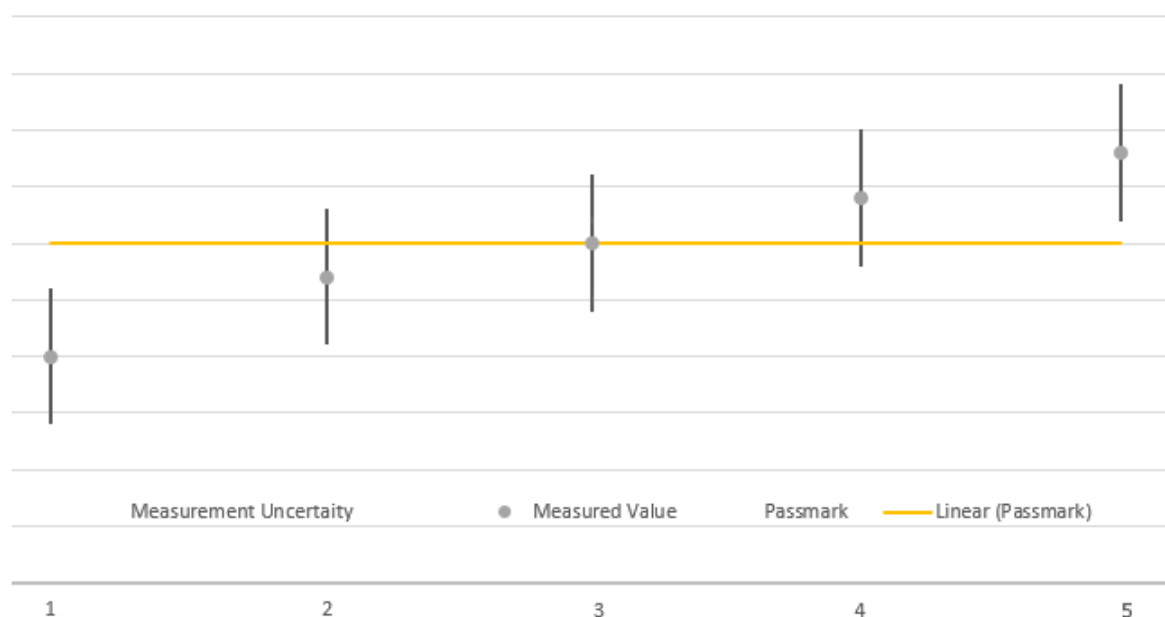
Linear interpolation will be used for frequencies in between the values in the table.

Table shows an extract of values.

8 MEASUREMENT UNCERTAINTIES

Test Case	Parameter	Uncertainty
AC Power Line	Power	± 3.4 dB
Field Strength of spurious radiation	Power	± 5.5 dB
6 dB / 26 dB / 99% Bandwidth	Power Frequency	± 2.9 dB ± 11.2 kHz
Conducted Output Power	Power	± 2.2 dB
Band Edge Compliance	Power Frequency	± 2.2 dB ± 11.2 kHz
Frequency Stability	Frequency	± 25 Hz
Power Spectral Density	Power	± 2.2 dB

The measurement uncertainties for all parameters are calculated with an expansion factor (coverage factor) $k = 1.96$. This means, that the true value is in the corresponding interval with a probability of 95 %.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	on pass mark	within pass mark	Passed
4	above pass mark	within pass mark	Failed
5	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

9 PHOTO REPORT

Please see separate photo report.

*****END OF TEST REPORT*****