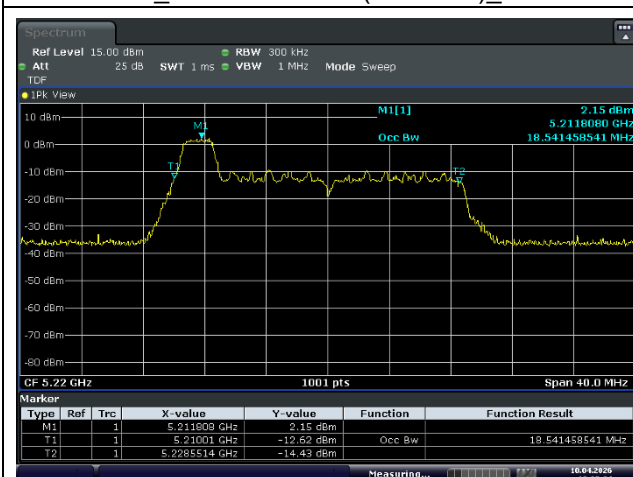
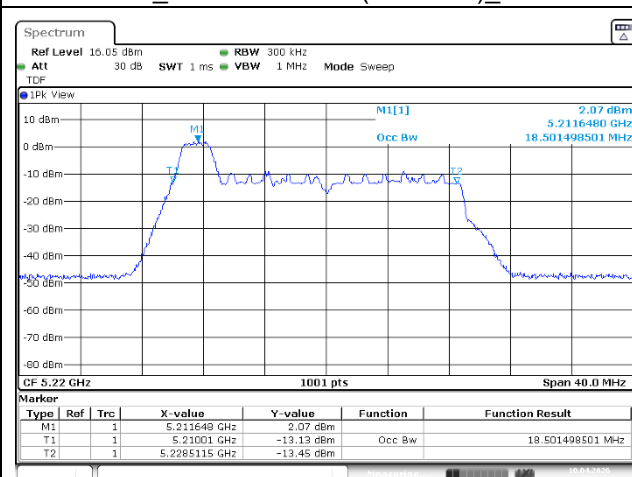


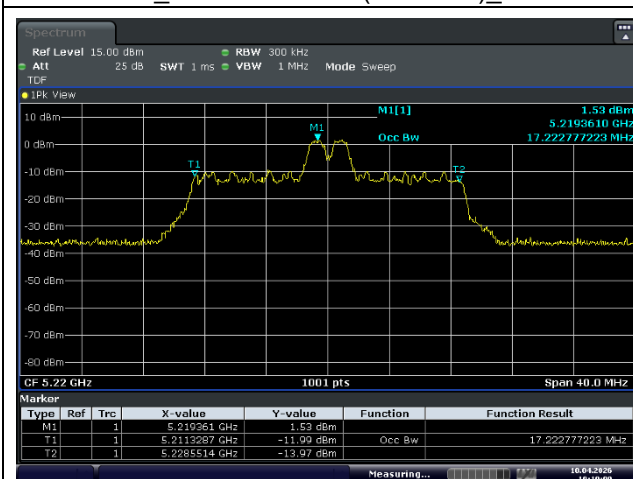
Ant.1_Middle Channel (5 220 MHz)_0 RU



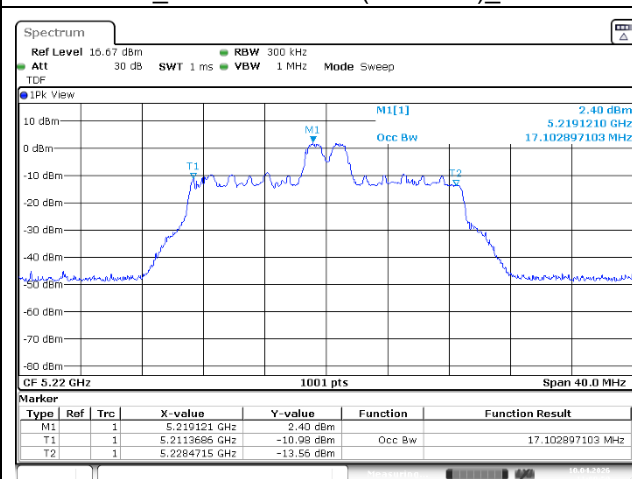
Ant.2_Middle Channel (5 220 MHz)_0 RU



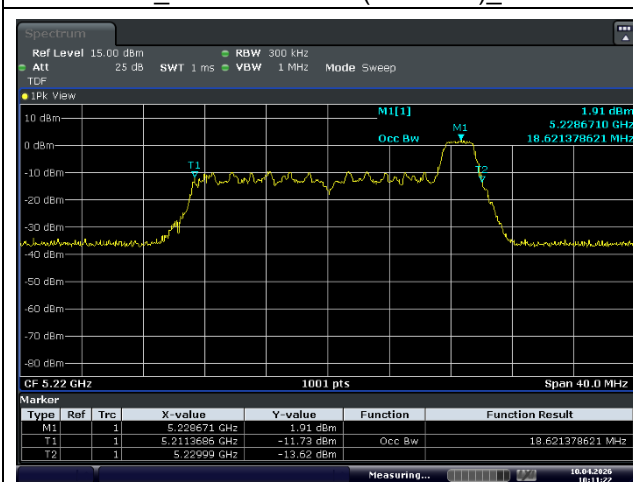
Ant.1_Middle Channel (5 220 MHz)_4 RU



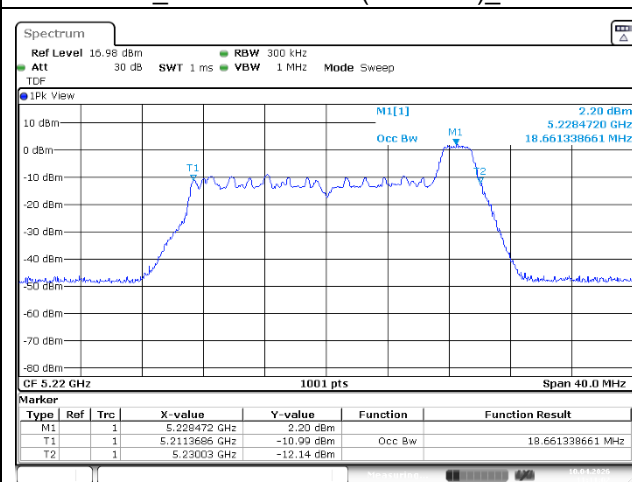
Ant.2_Middle Channel (5 220 MHz)_4 RU



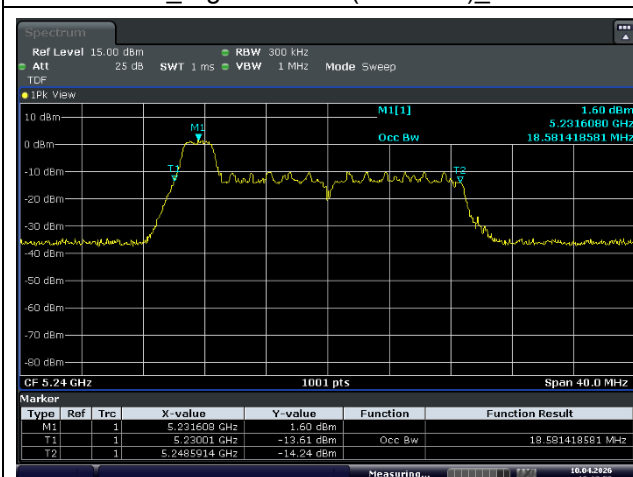
Ant.1_Middle Channel (5 220 MHz)_8 RU



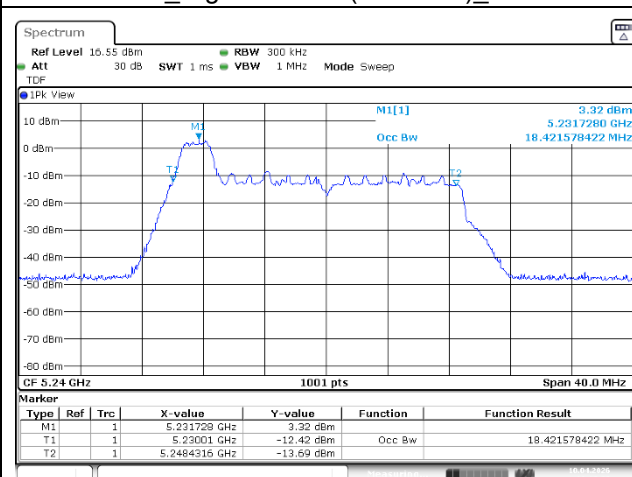
Ant.2_Middle Channel (5 220 MHz)_8 RU



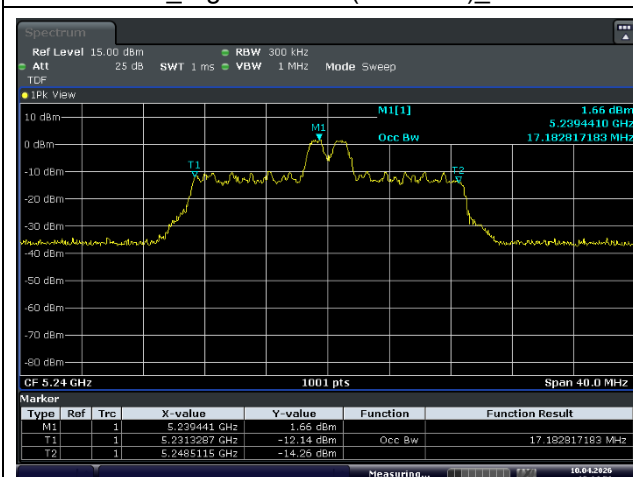
Ant.1_High Channel (5 240 MHz)_0 RU



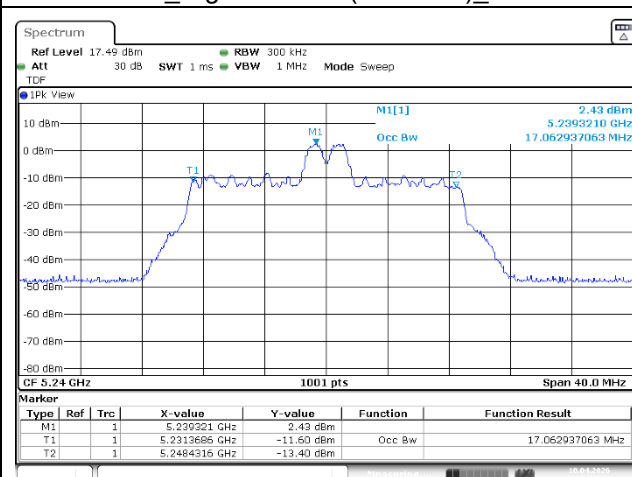
Ant.2_High Channel (5 240 MHz)_0 RU



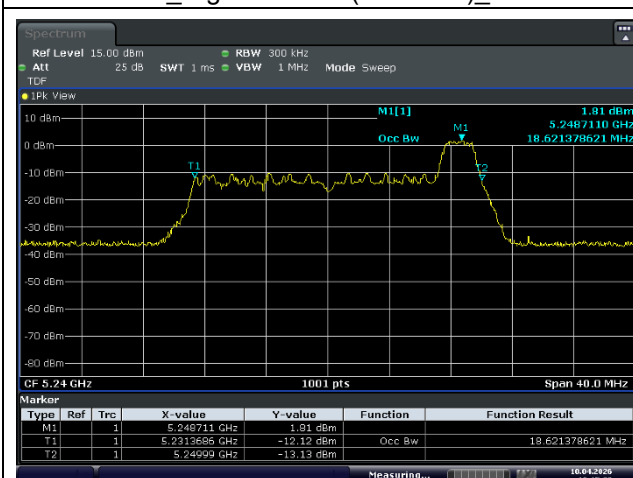
Ant.1_High Channel (5 240 MHz)_4 RU



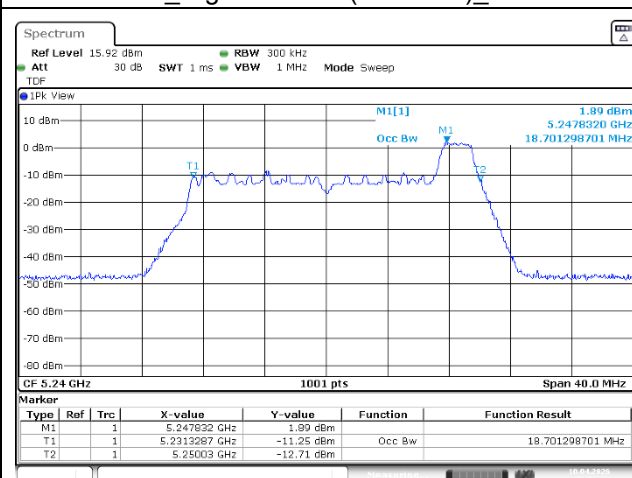
Ant.2_High Channel (5 240 MHz)_4 RU



Ant.1_High Channel (5 240 MHz)_8 RU

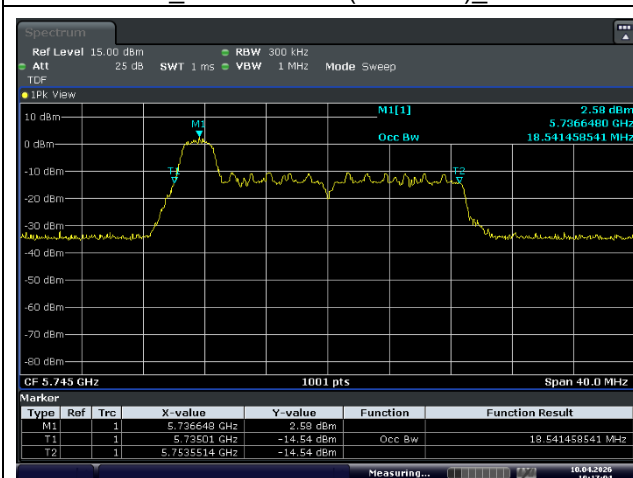


Ant.2_High Channel (5 240 MHz)_8 RU

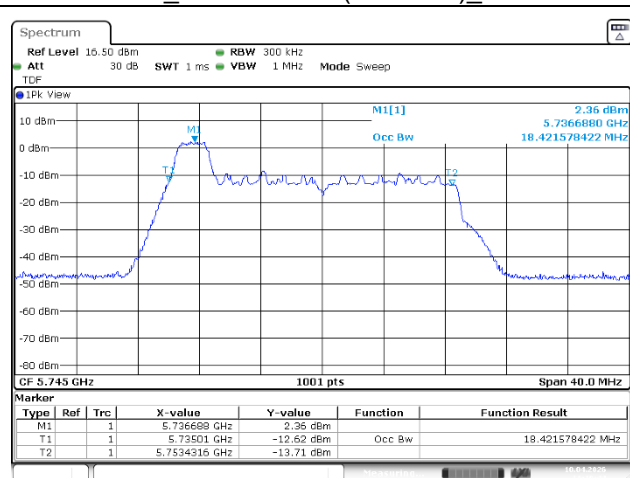


11ax_HE20_26T (UNII-3)

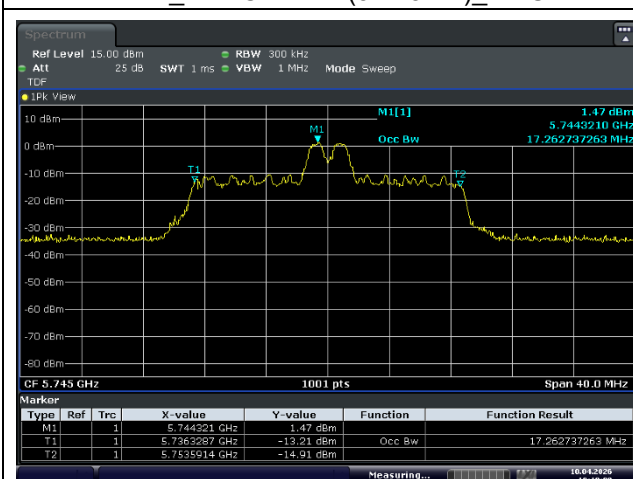
Ant.1_Low Channel (5 745 MHz)_0 RU



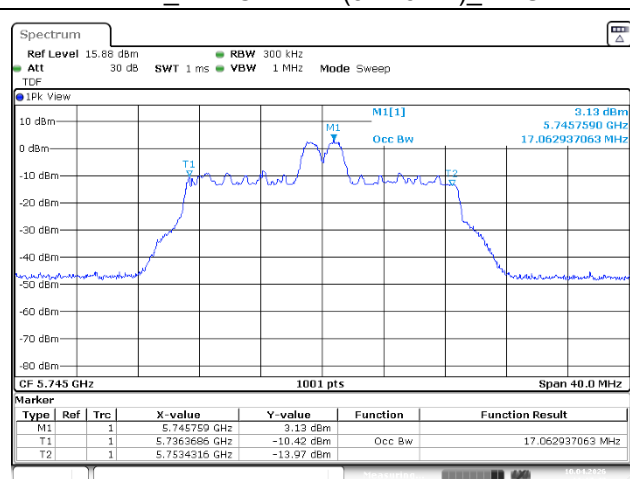
Ant.2_Low Channel (5 745 MHz)_0 RU



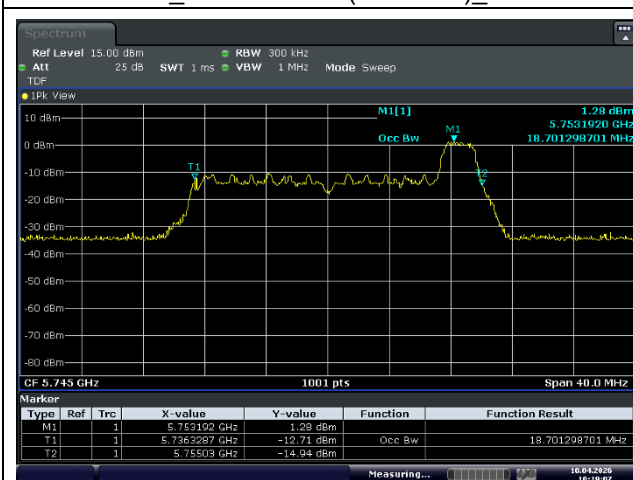
Ant.1_Low Channel (5 745 MHz)_4 RU



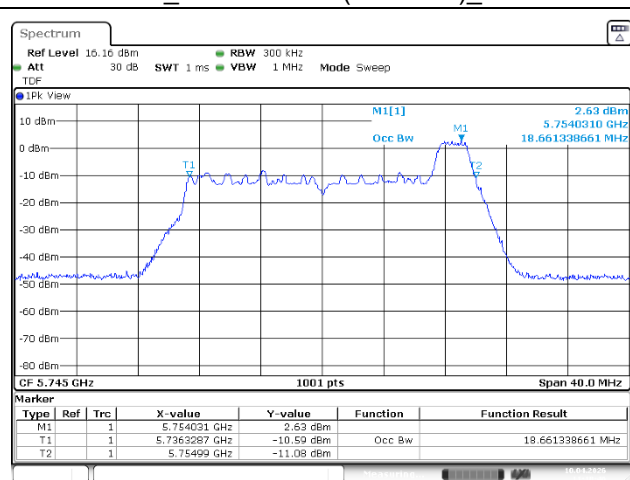
Ant.2_Low Channel (5 745 MHz)_4 RU



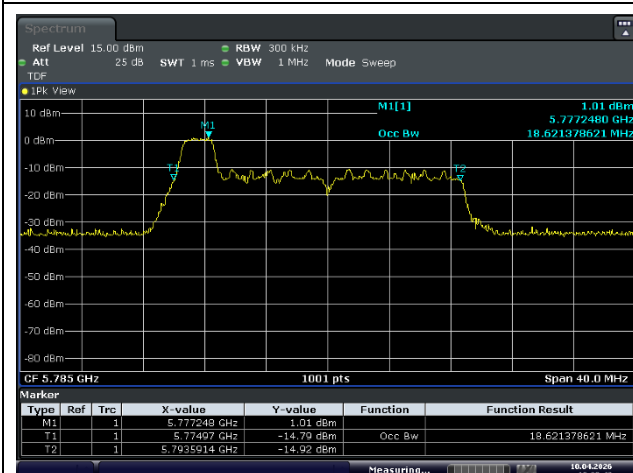
Ant.1_Low Channel (5 745 MHz)_8 RU



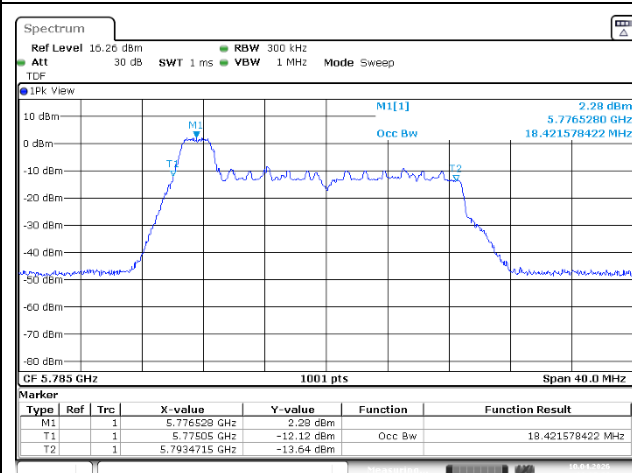
Ant.2_Low Channel (5 745 MHz)_8 RU



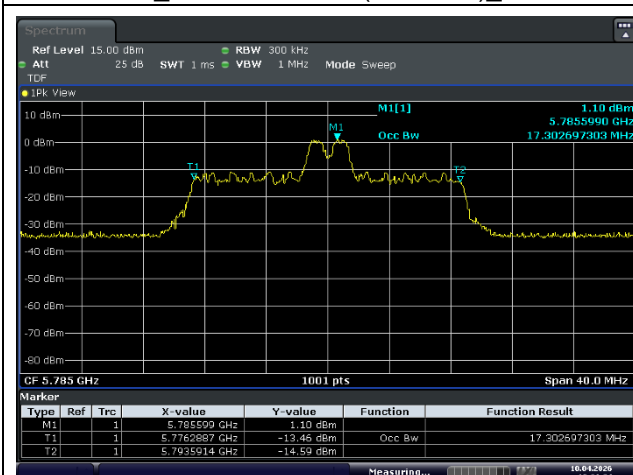
Ant.1_Middle Channel (5 785 MHz)_0 RU



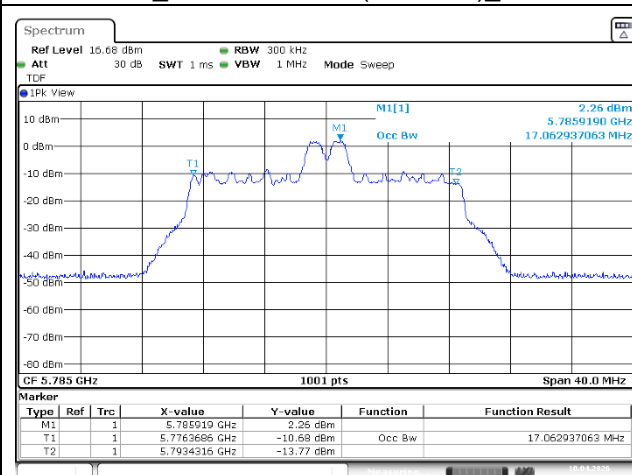
Ant.2_Middle Channel (5 785 MHz)_0 RU



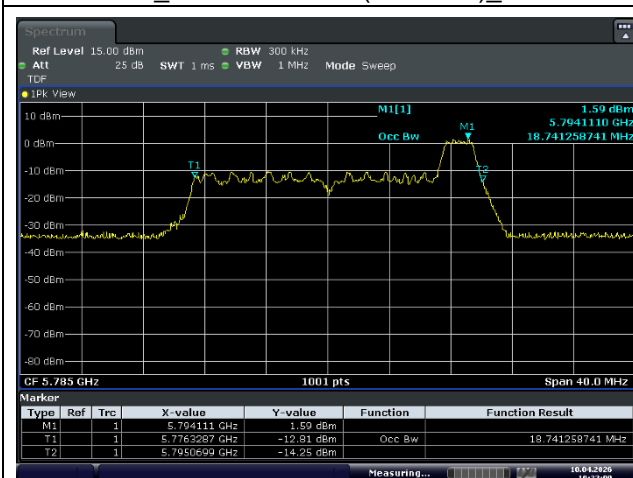
Ant.1_Middle Channel (5 785 MHz)_4 RU



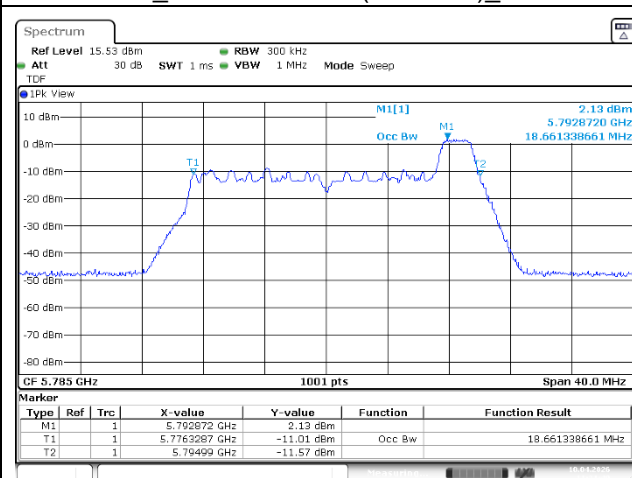
Ant.2_Middle Channel (5 785 MHz)_4 RU



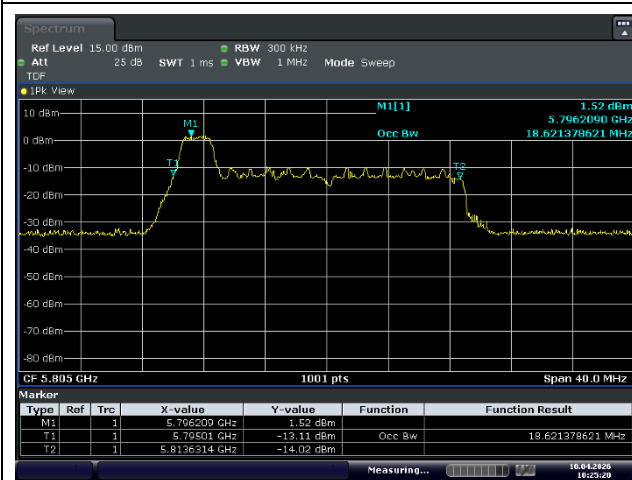
Ant.1_Middle Channel (5 785 MHz)_8 RU



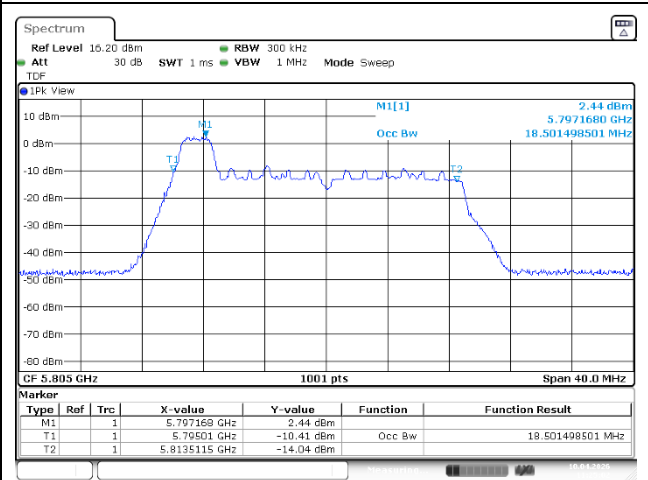
Ant.2_Middle Channel (5 785 MHz)_8 RU



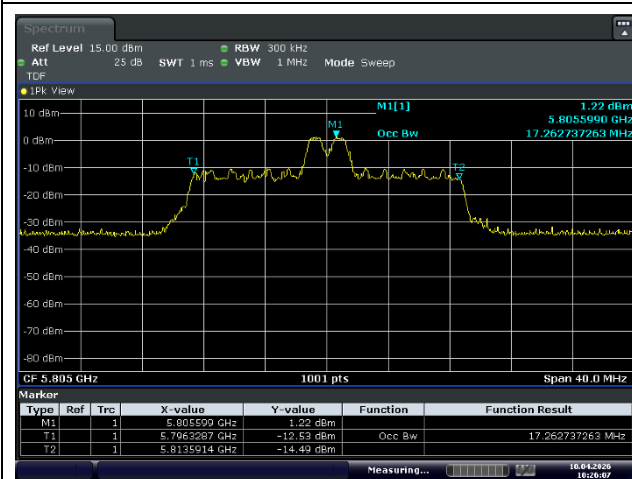
Ant.1_High Channel (5 805 MHz)_0 RU



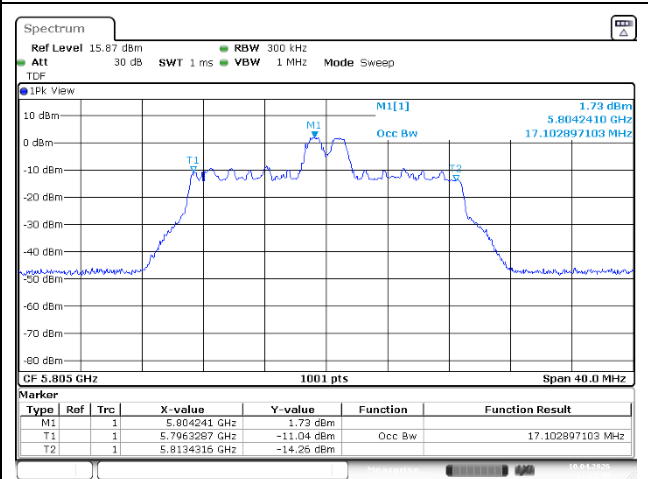
Ant.2_High Channel (5 805 MHz)_0 RU



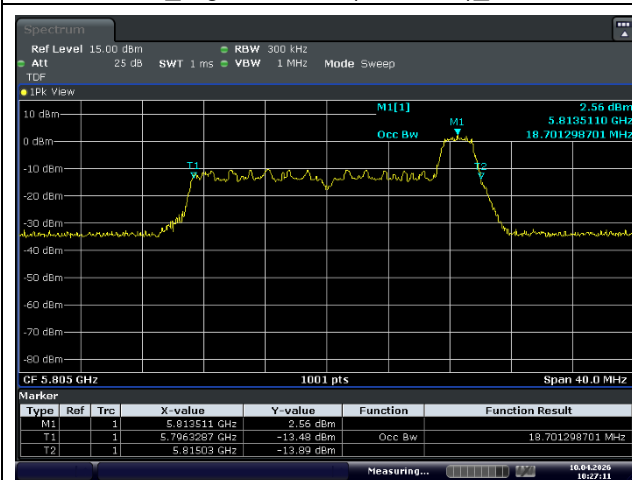
Ant.1_High Channel (5 805 MHz)_4 RU



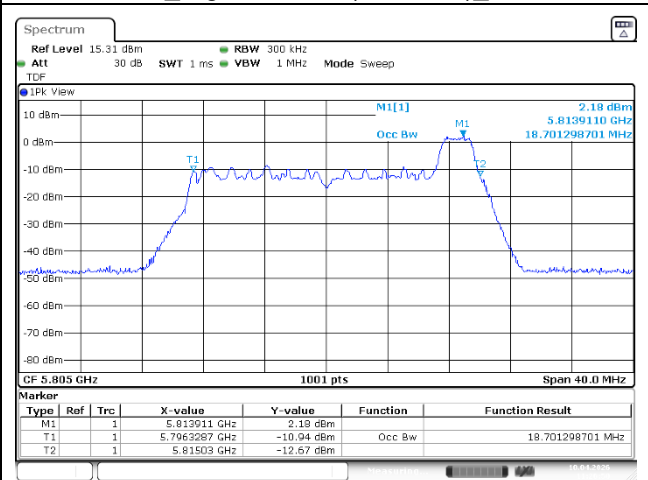
Ant.2_High Channel (5 805 MHz)_4 RU



Ant.1_High Channel (5 805 MHz)_8 RU

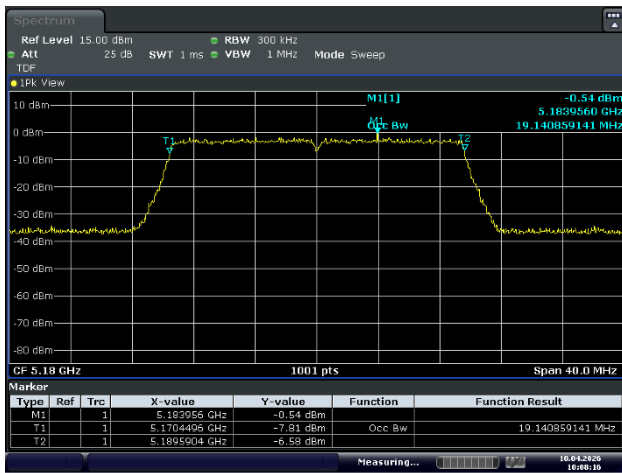


Ant.2_High Channel (5 805 MHz)_8 RU

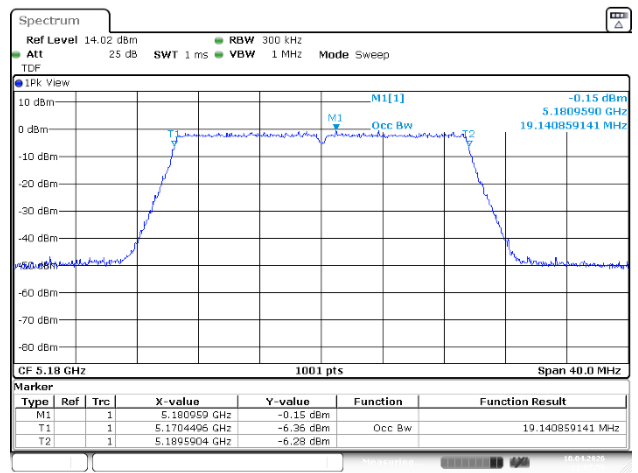


11ax_HE20_SU (UNII-1)

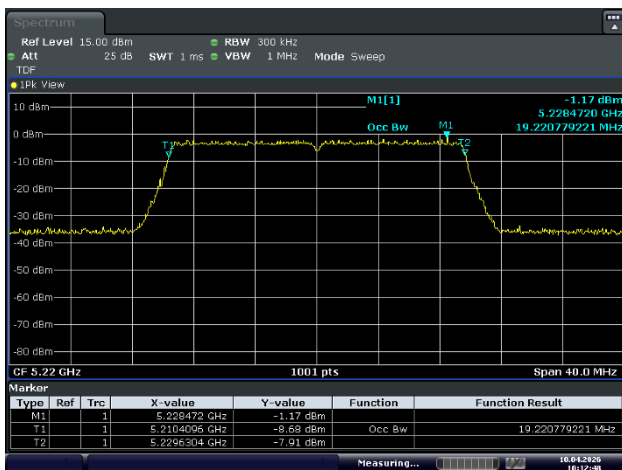
Ant.1_Low Channel (5 180 MHz)



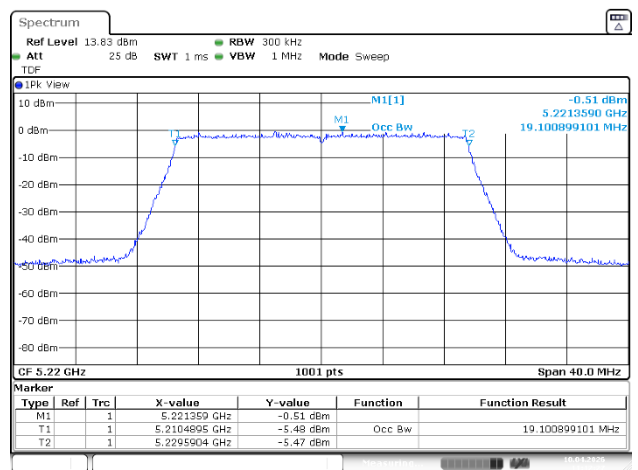
Ant.2_Low Channel (5 180 MHz)



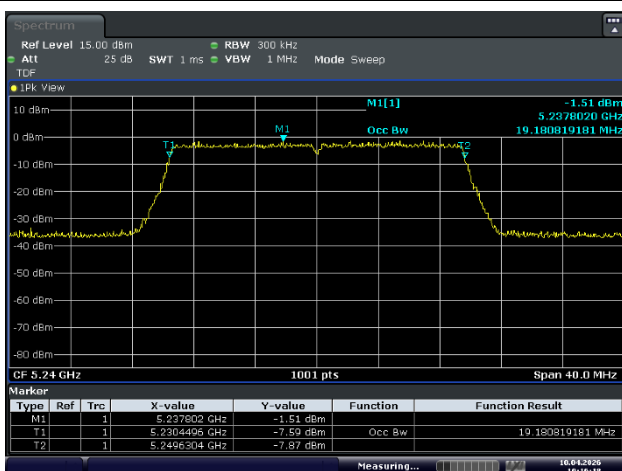
Ant.1_Middle Channel (5 220 MHz)



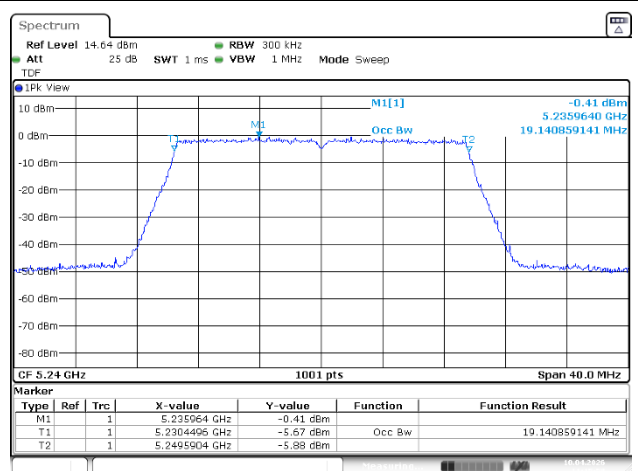
Ant.2_Middle Channel (5 220 MHz)



Ant.1_High Channel (5 240 MHz)

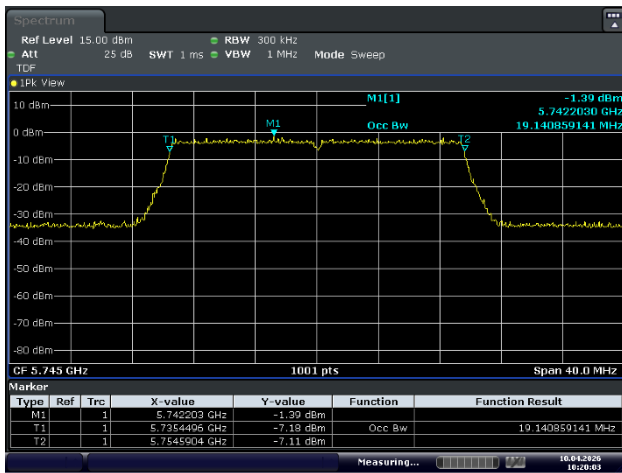


Ant.2_High Channel (5 240 MHz)

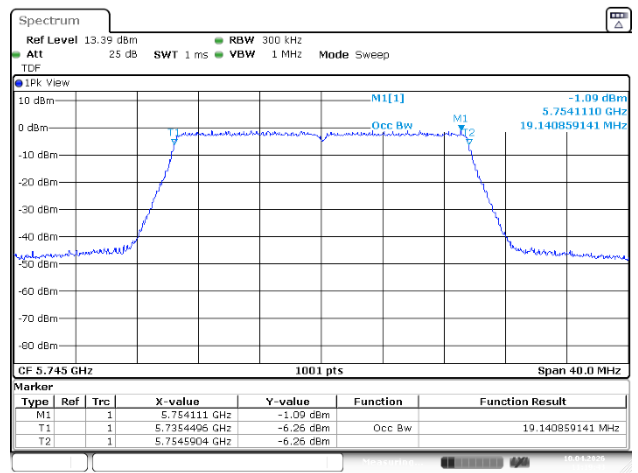


11ax_HE20_SU (UNII-3)

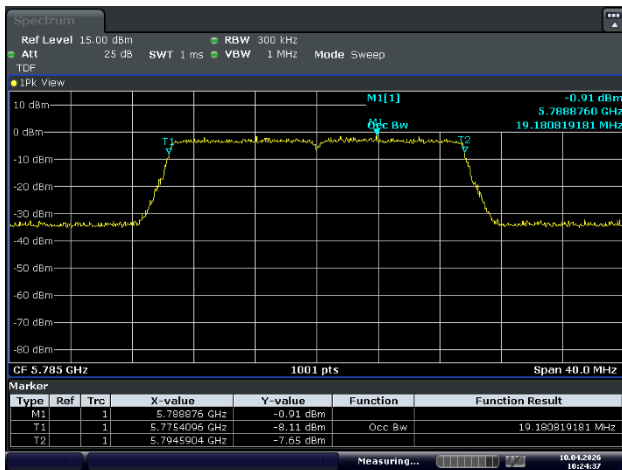
Ant.1_Low Channel (5 745 MHz)



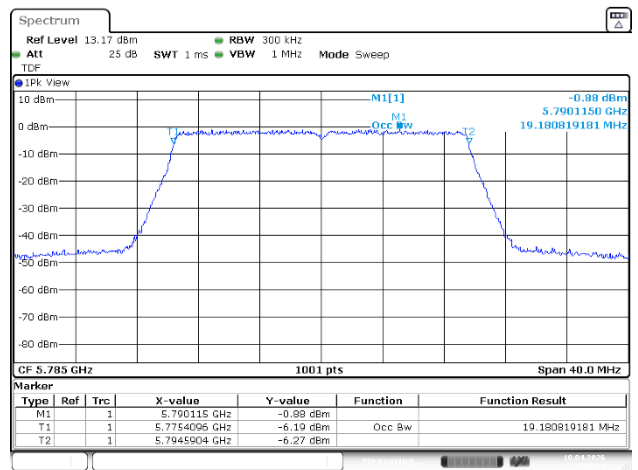
Ant.2_Low Channel (5 745 MHz)



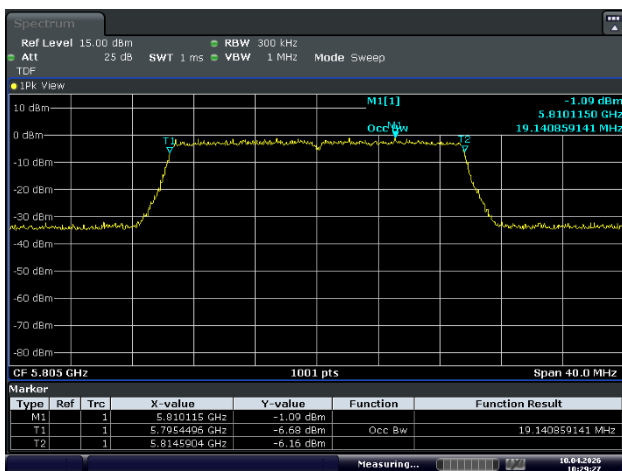
Ant.1_Middle Channel (5 785 MHz)



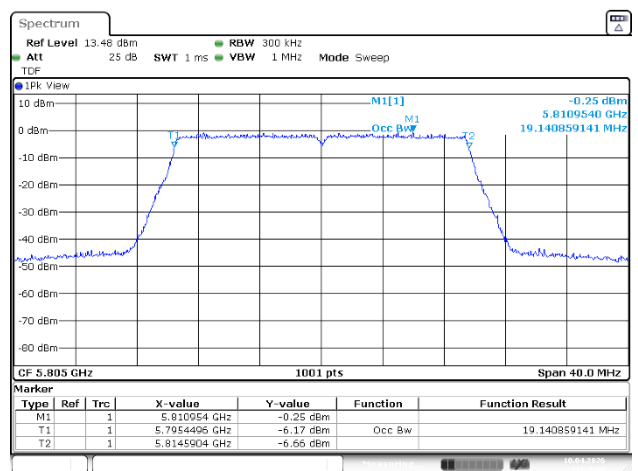
Ant.2_Middle Channel (5 785 MHz)



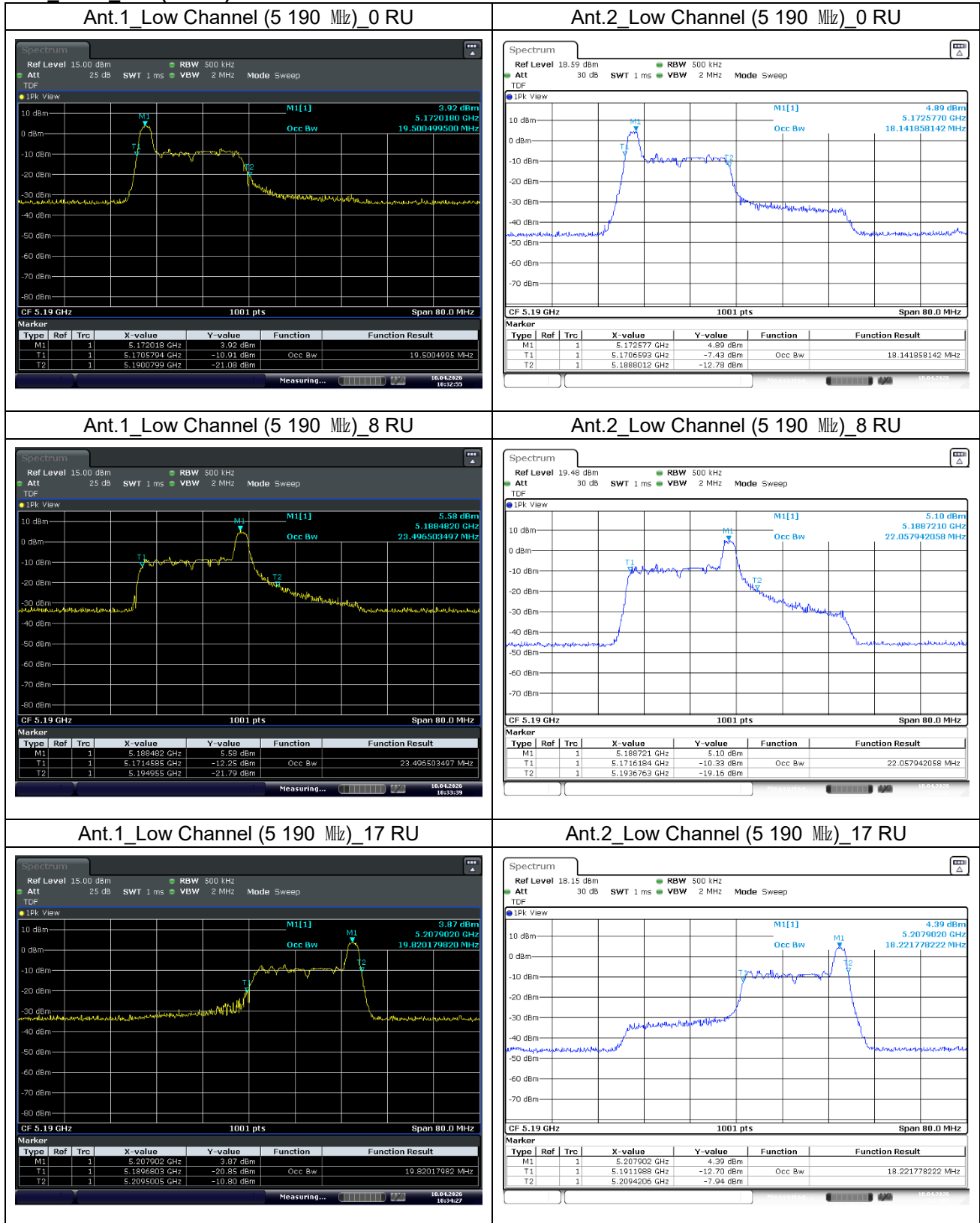
Ant.1_High Channel (5 805 MHz)



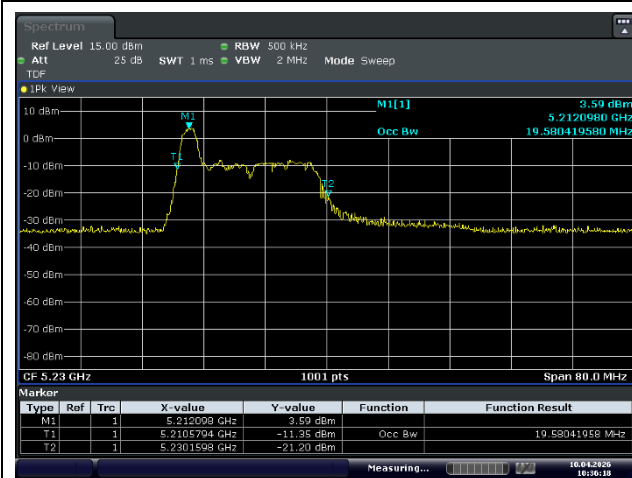
Ant.2_High Channel (5 805 MHz)



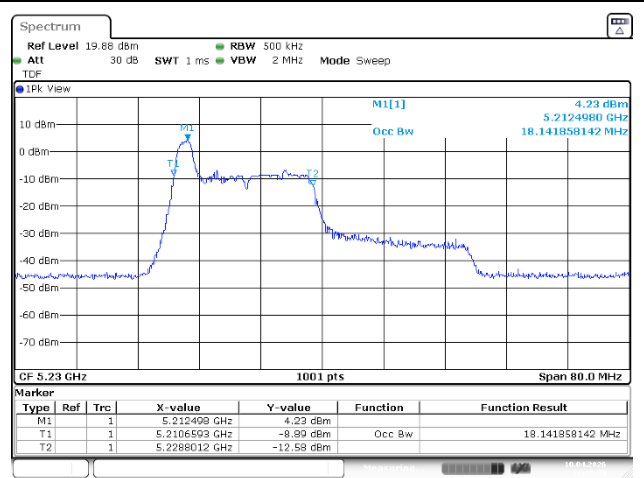
11ax_HE40_26T (UNII-1)



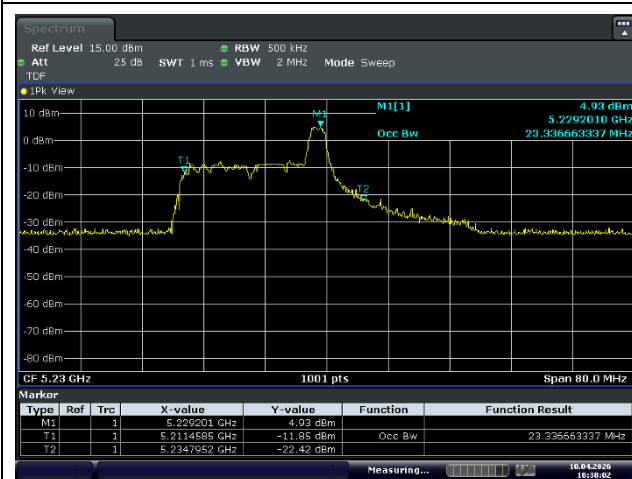
Ant.1_High Channel (5 230 MHz)_0 RU



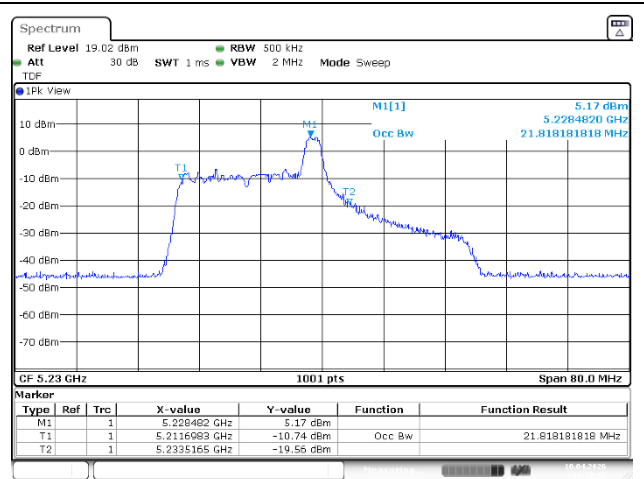
Ant.2_High Channel (5 230 MHz)_0 RU



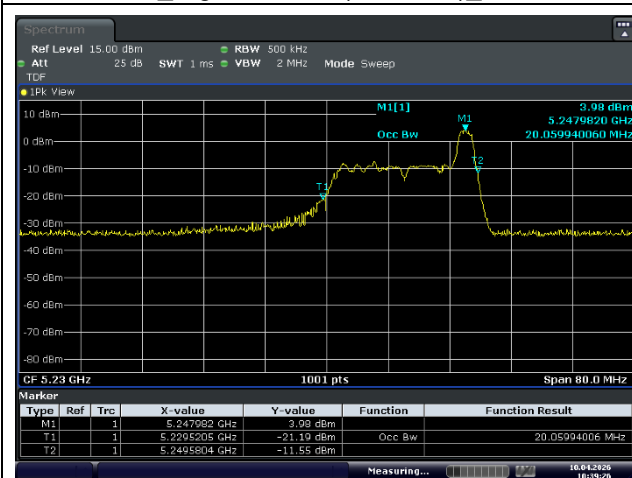
Ant.1_High Channel (5 230 MHz)_8 RU



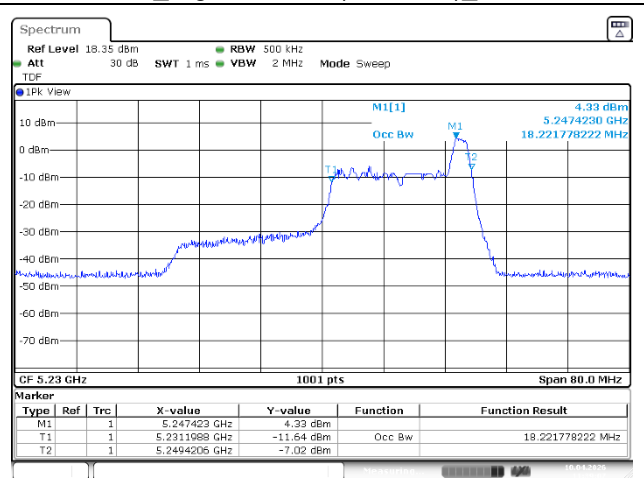
Ant.2_High Channel (5 230 MHz)_8 RU



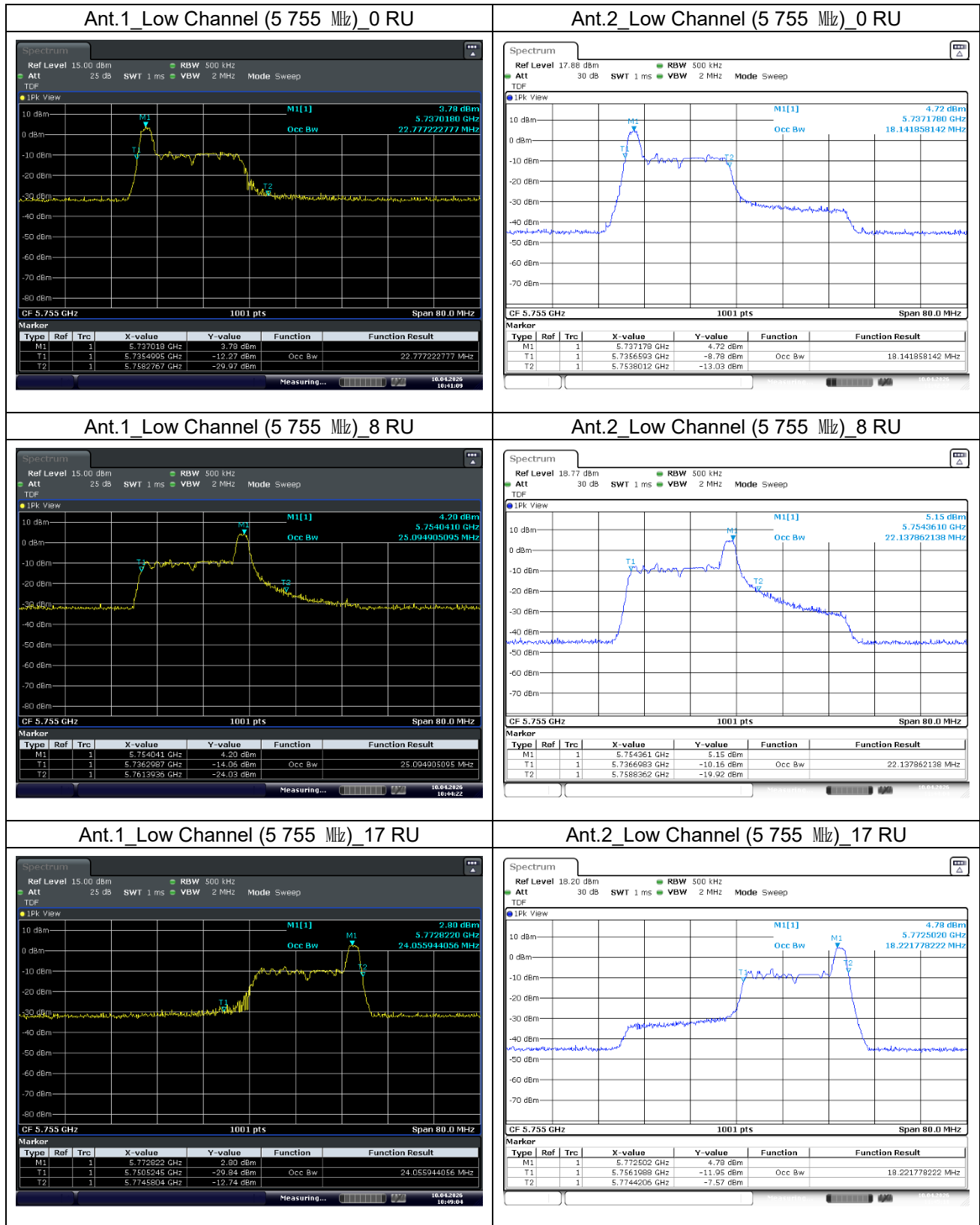
Ant.1_High Channel (5 230 MHz)_17 RU



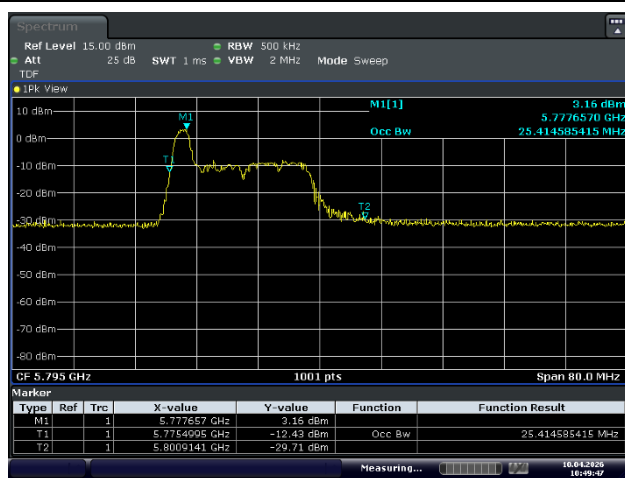
Ant.2_High Channel (5 230 MHz)_17 RU



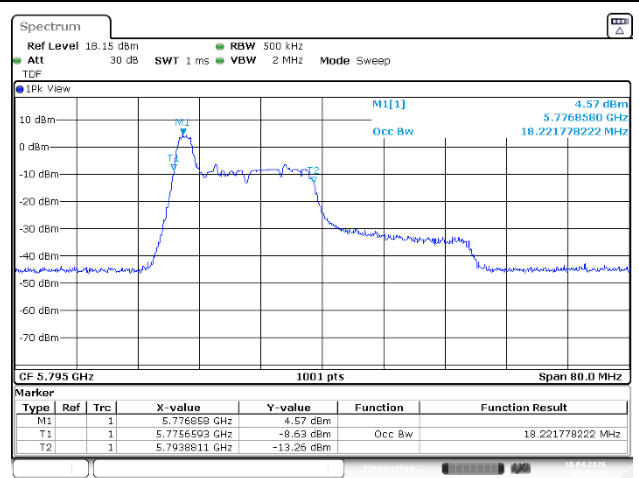
11ax_HE40_26T (UNII-3)



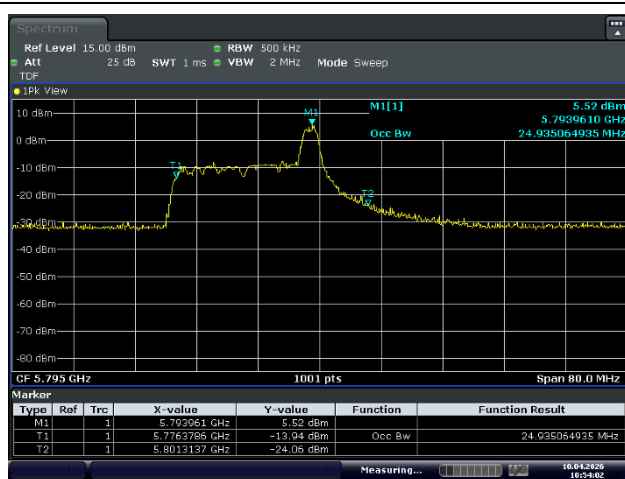
Ant.1_High Channel (5 795 MHz)_0 RU



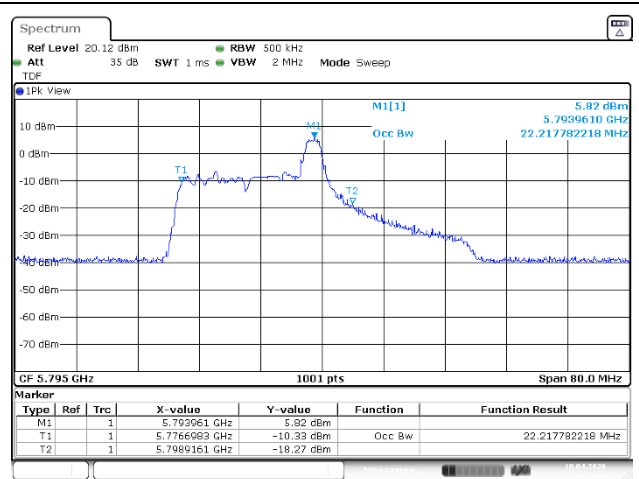
Ant.2_High Channel (5 795 MHz)_0 RU



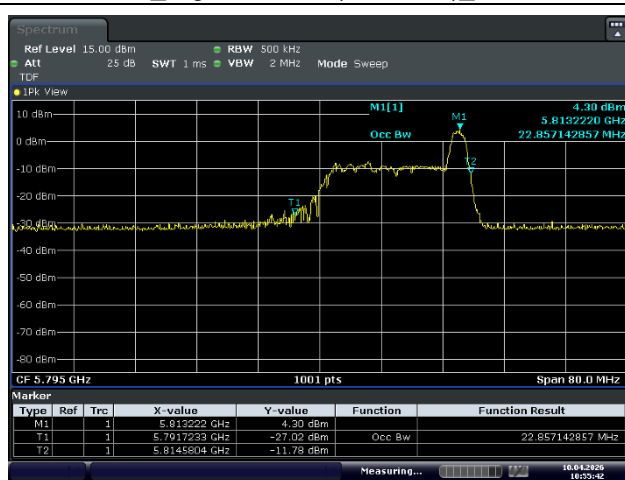
Ant.1_High Channel (5 795 MHz)_8 RU



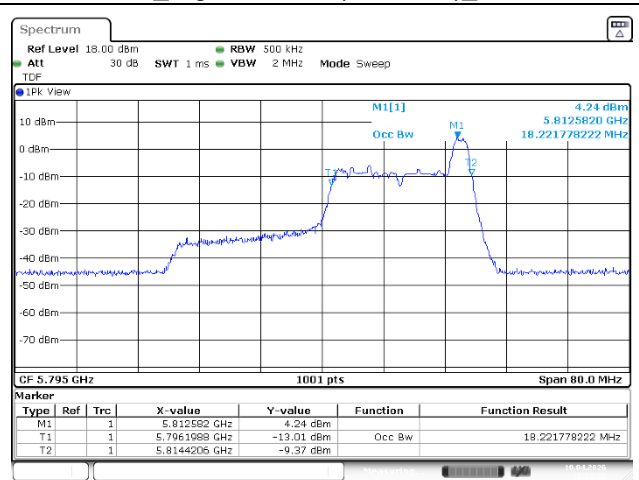
Ant.2_High Channel (5 795 MHz)_8 RU



Ant.1_High Channel (5 795 MHz)_17 RU

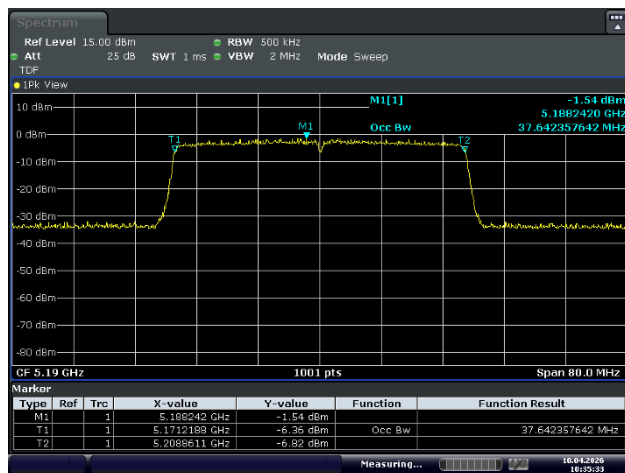


Ant.2_High Channel (5 795 MHz)_17 RU

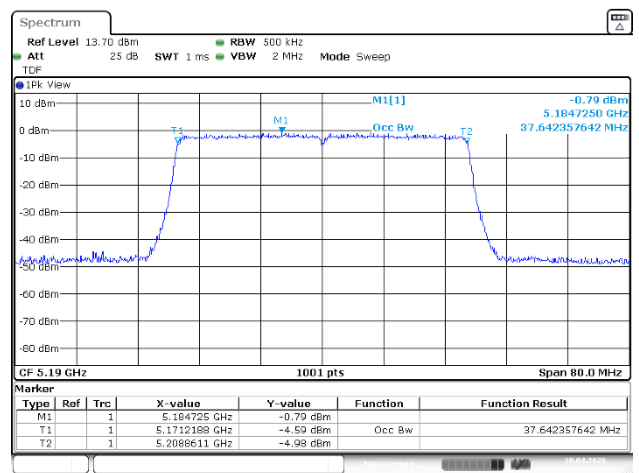


11ax_HE40_SU (UNII-1)

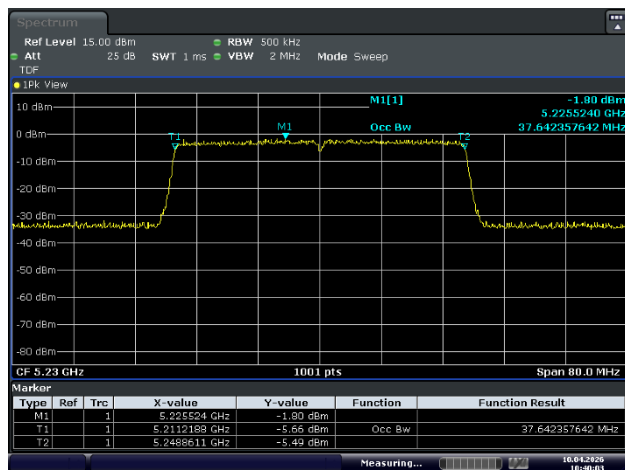
Ant.1_Low Channel (5 190 MHz)



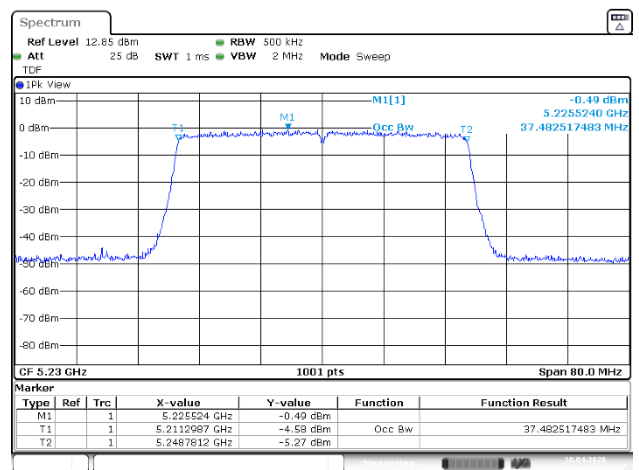
Ant.2_Low Channel (5 190 MHz)



Ant.1_High Channel (5 230 MHz)

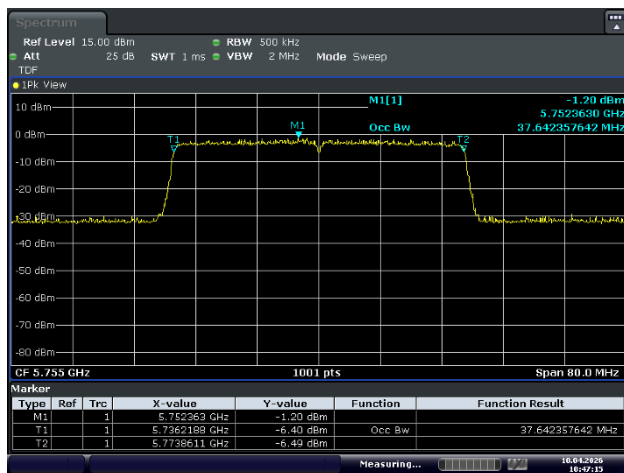


Ant.2_High Channel (5 230 MHz)

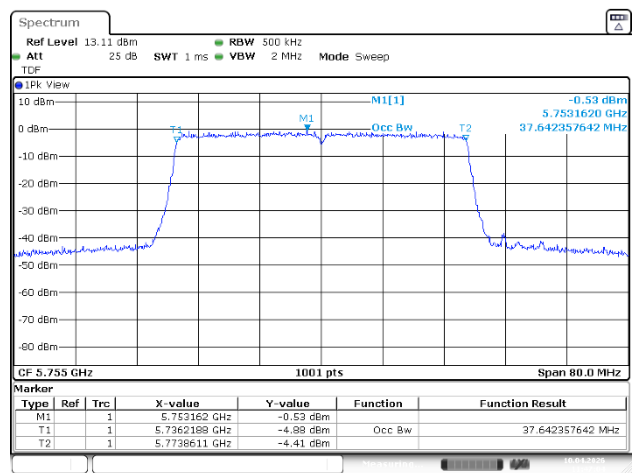


11ax_HE40_SU (UNII-3)

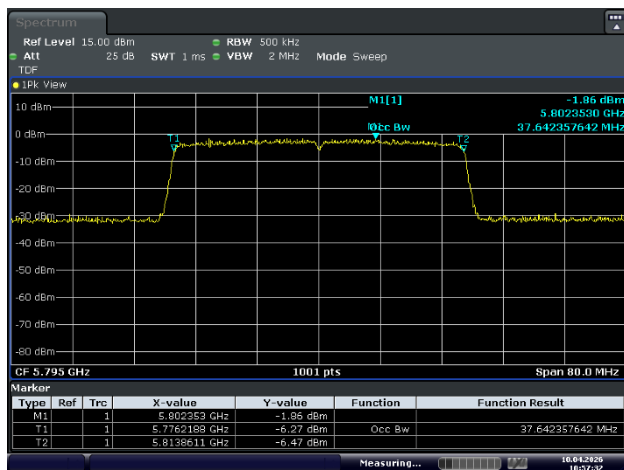
Ant.1_Low Channel (5 755 MHz)



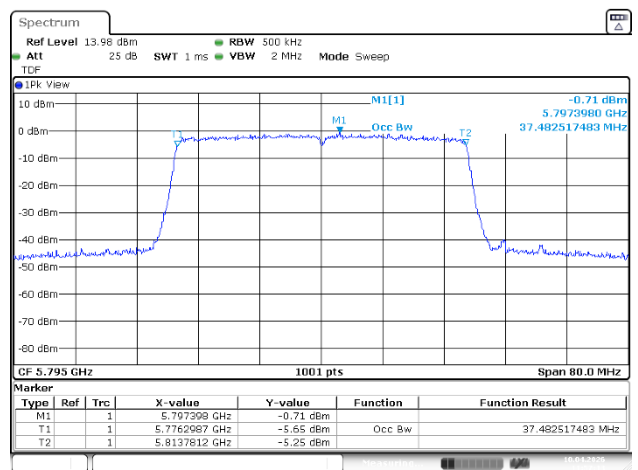
Ant.2_Low Channel (5 755 MHz)



Ant.1_High Channel (5 795 MHz)

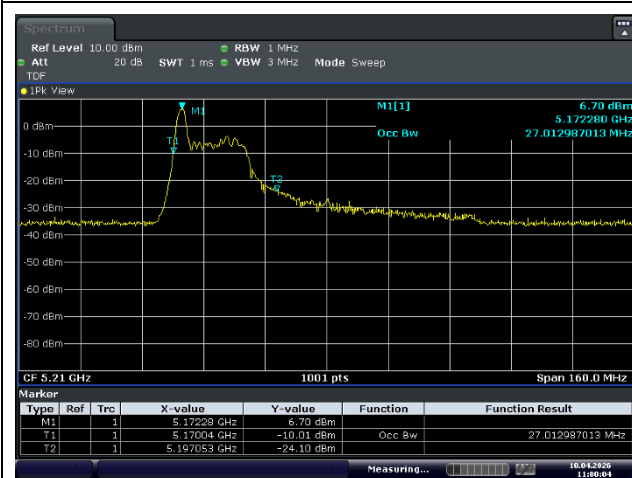


Ant.2_High Channel (5 795 MHz)

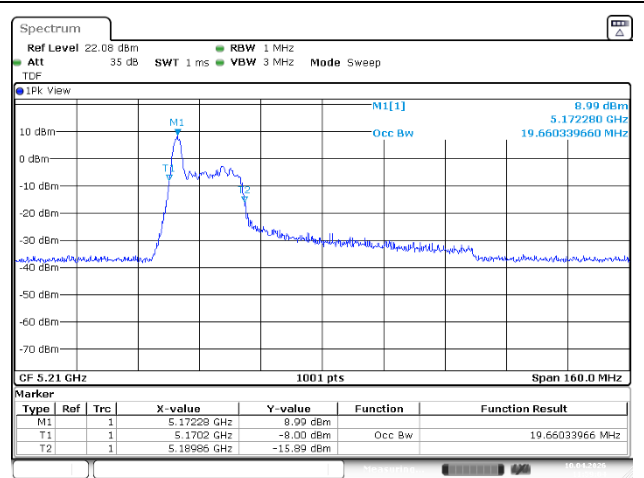


11ax_HE80_26T (UNII-1)

Ant.1_Middle Channel (5 210 MHz)_0 RU



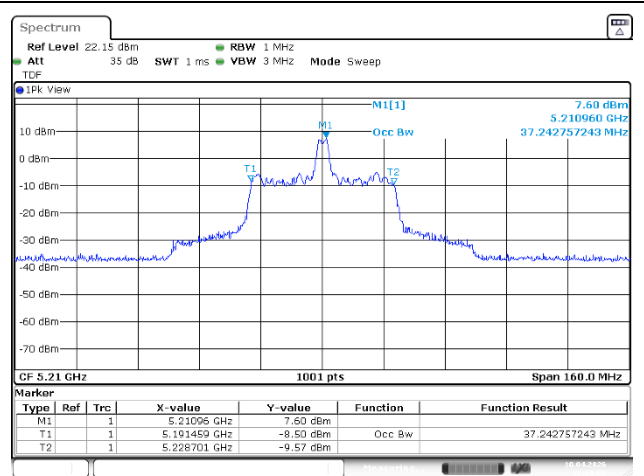
Ant.2_Middle Channel (5 210 MHz)_0 RU



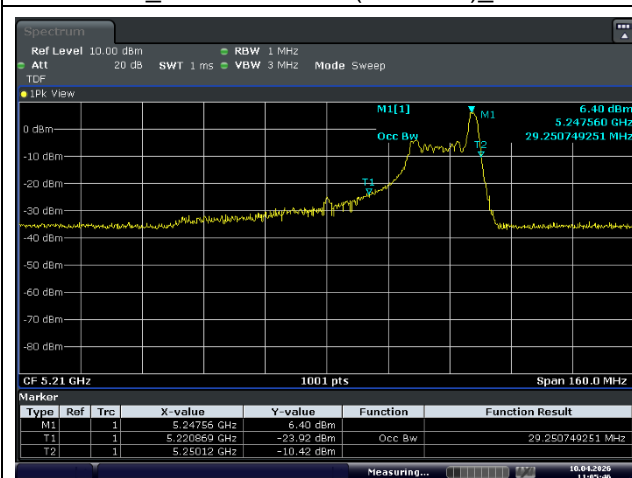
Ant.1_Middle Channel (5 210 MHz)_18 RU



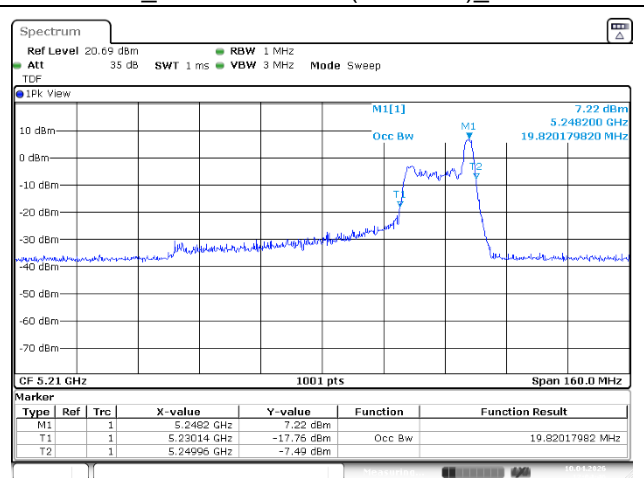
Ant.2_Middle Channel (5 210 MHz)_18 RU



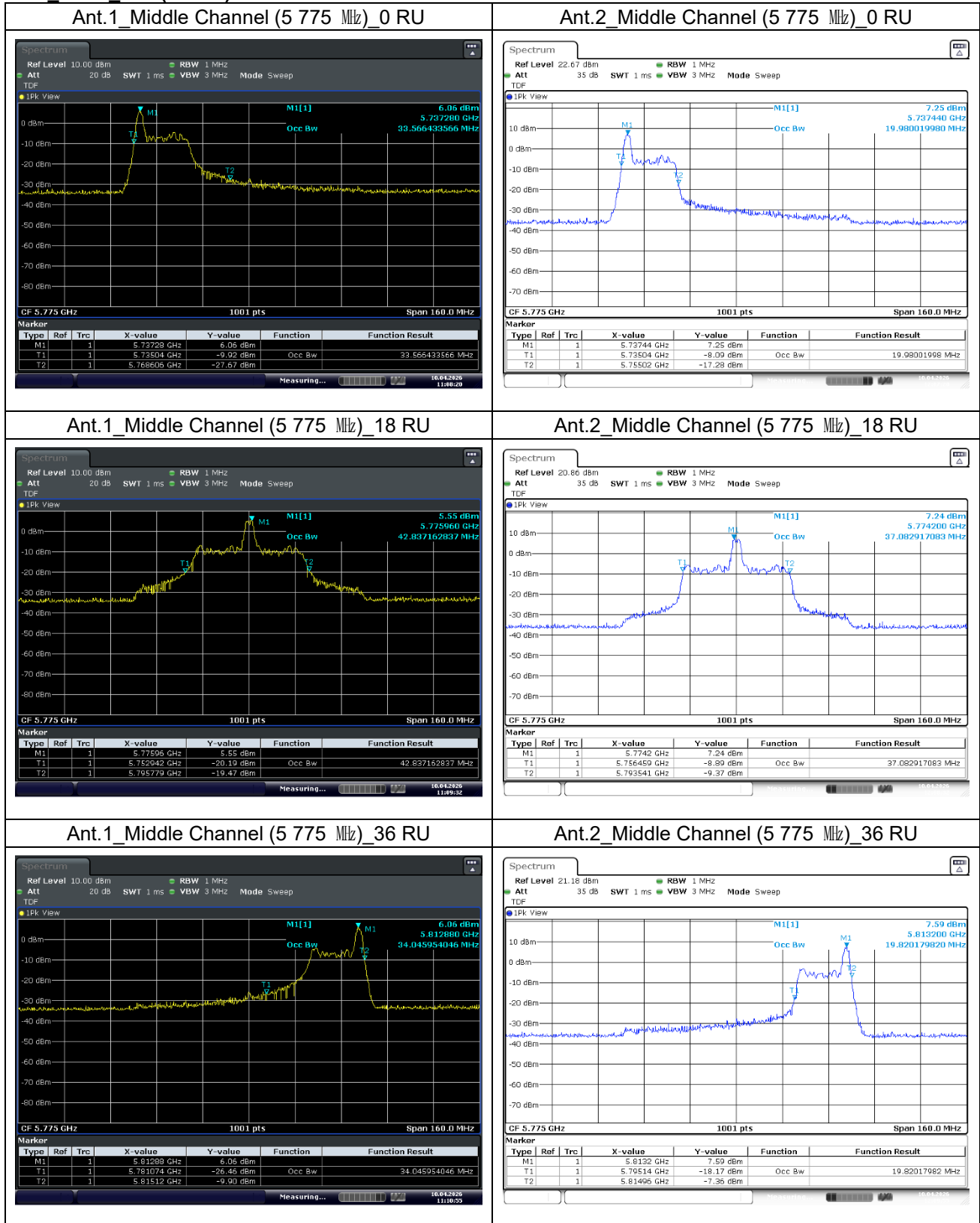
Ant.1_Middle Channel (5 210 MHz)_36 RU



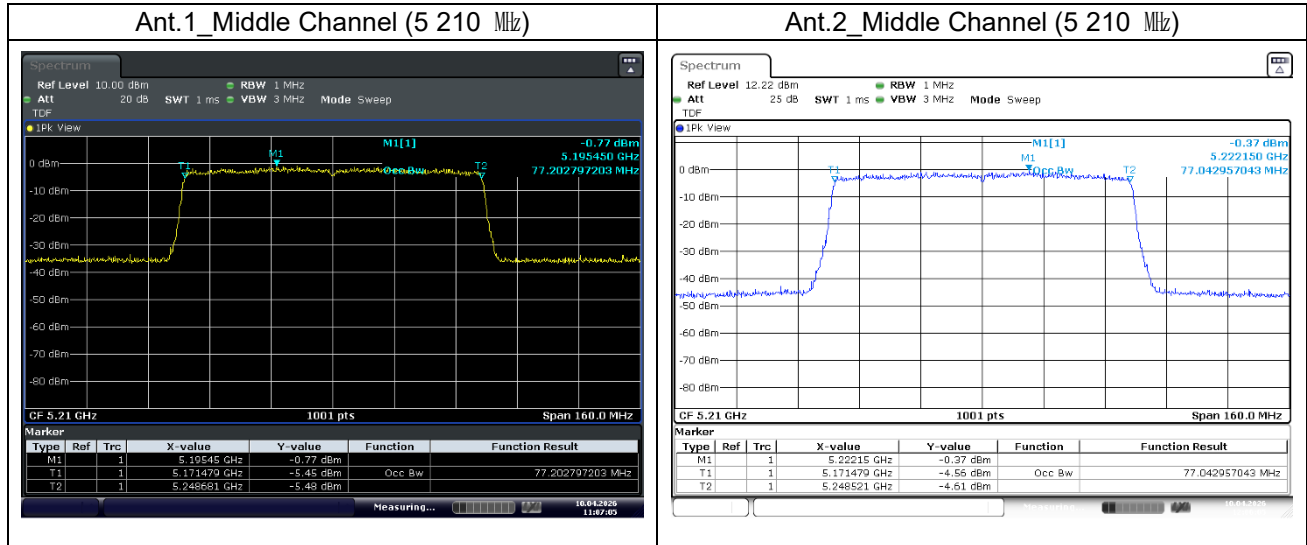
Ant.2_Middle Channel (5 210 MHz)_36 RU



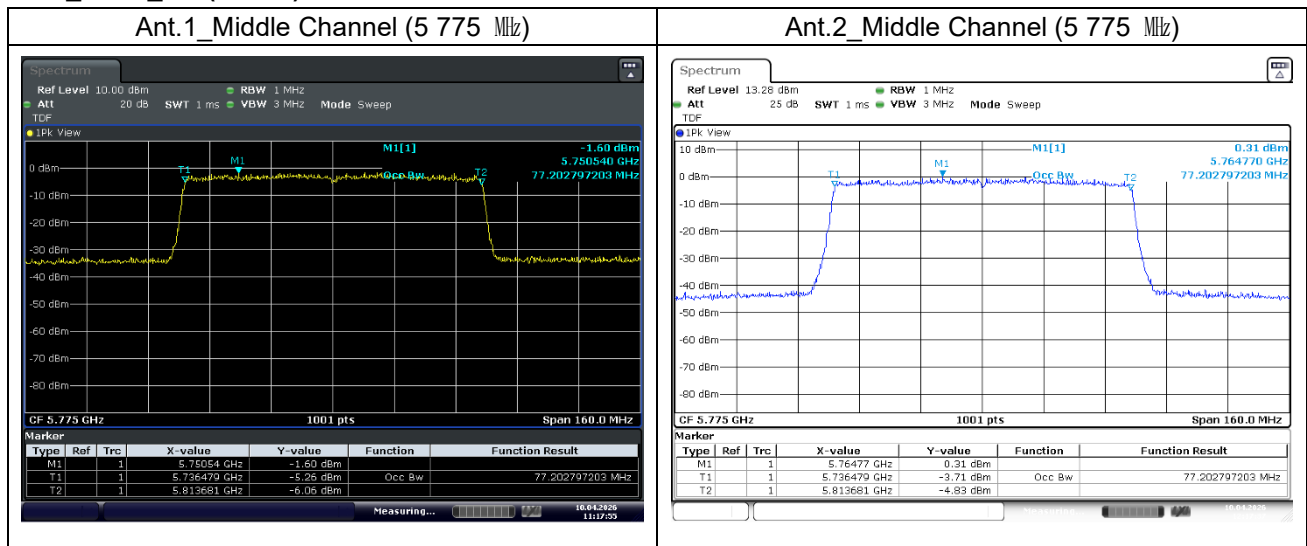
11ax_HE80_26T (UNII-3)



11ax_HE80_SU (UNII-1)

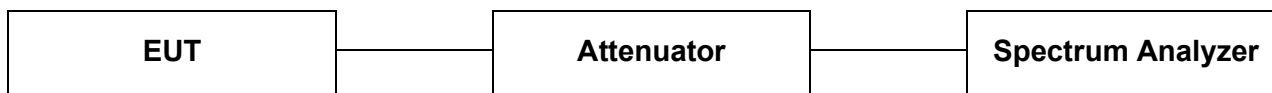


11ax_HE80_SU (UNII-3)



4. 6 dB Bandwidth

4.1. Test Setup



4.2. Limit

According to §15.407(e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.3. Test Procedure

1. This measurement settings are specified in section II.C.2 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test Result

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 %

SISO (Ant.3)

Band	Mode	Frequency (MHz)	Ch.	Tones	6 dB Bandwidth (MHz)			Minimum Bandwidth (kHz)
					RU Index			
					Low	Middle	High	
UNII-3	11ax_HE20	5 745	149	26	2.093	2.666	2.079	500
		5 785	157		2.066	2.639	2.053	
		5 805	161		2.053	2.666	2.079	
		5 745	149	SU	-	19.047	-	
		5 785	157		-	19.087	-	
		5 805	161		-	19.114	-	
	11ax_HE40	5 755	151	26	2.053	2.133	2.053	
		5 795	159		2.053	2.106	2.079	
		5 755	151	SU	-	37.721	-	
		5 795	159		-	38.094	-	
	11ax_HE80	5 775	155	26	2.079	2.719	2.133	
				SU	-	77.414	-	

MIMO (Ant.1 + Ant.2)

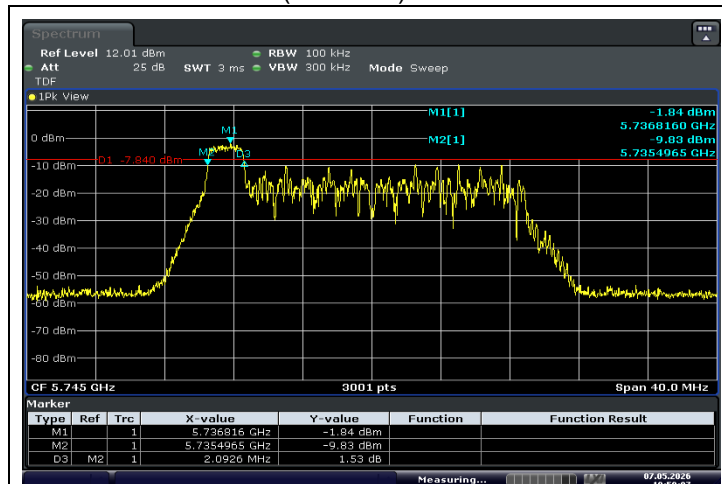
Band	Mode	Freq. (MHz)	Ch.	Tones	6 dB Bandwidth (MHz)						Minimum Bandwidth (kHz)
					RU Index						
					Low		Middle		High		
					Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2	
UNII-3	11ax_HE20	5 745	149	26	2.093	2.079	2.692	2.666	2.079	2.039	500
		5 785	157		2.013	2.106	2.652	2.652	2.079	2.066	
		5 805	161		2.066	2.079	2.666	2.666	2.079	2.079	
		5 745	149	SU	-	-	19.114	19.087	-	-	
		5 785	157		-	-	19.060	19.060	-	-	
		5 805	161		-	-	19.074	18.994	-	-	
	11ax_HE40	5 755	151	26	2.053	2.079	2.106	2.106	2.053	1.999	
		5 795	159		2.079	2.079	2.133	2.106	2.053	2.026	
		5 755	151	SU	-	-	38.041	37.667	-	-	
		5 795	159		-	-	37.454	37.641	-	-	
	11ax_HE80	5 775	155	26	2.079	2.133	2.719	2.719	2.133	2.133	
				SU	-	-	77.308	77.308	-	-	

Test plots

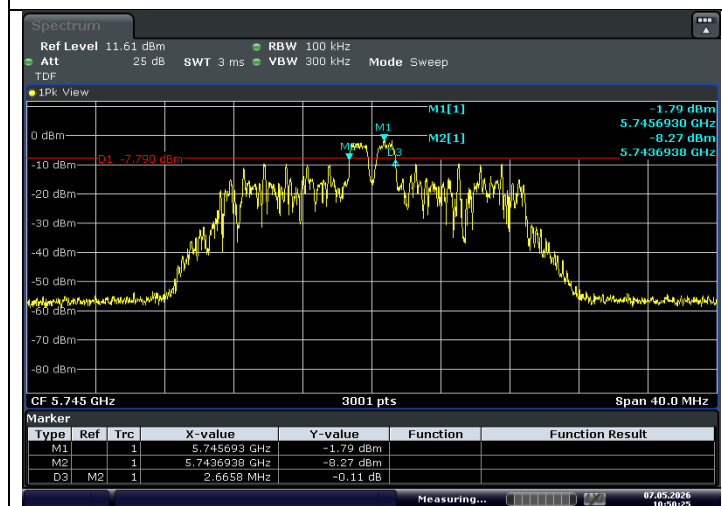
SISO (Ant.3)
11ax_HE20_26T (UNII-3)

Low Channel (5 745 MHz)

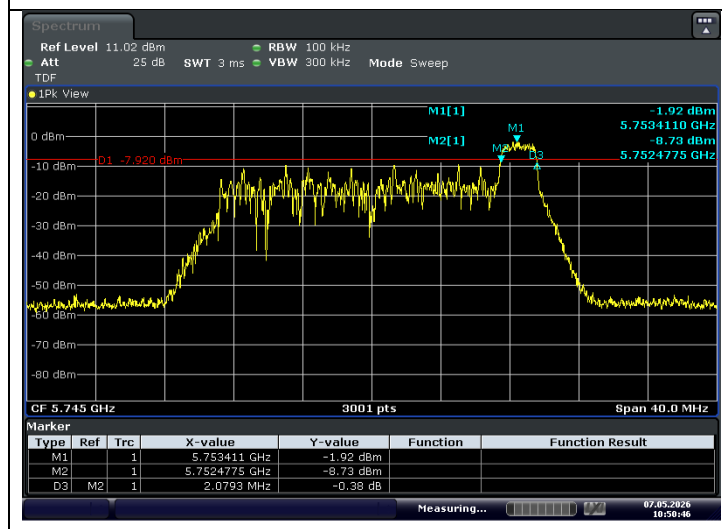
0 RU



4 RU

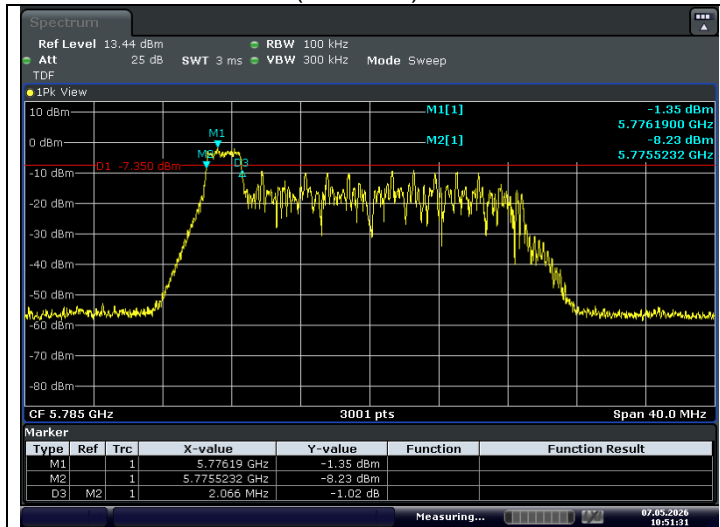


8 RU

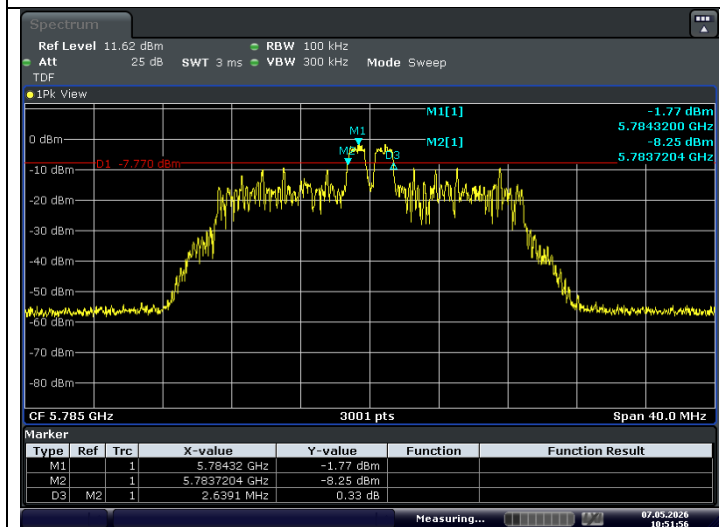


Middle Channel (5 785 MHz)

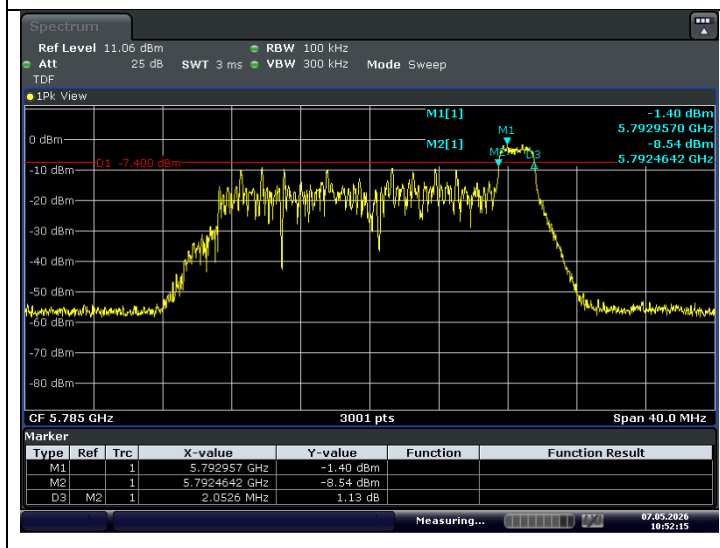
0 RU



4 RU

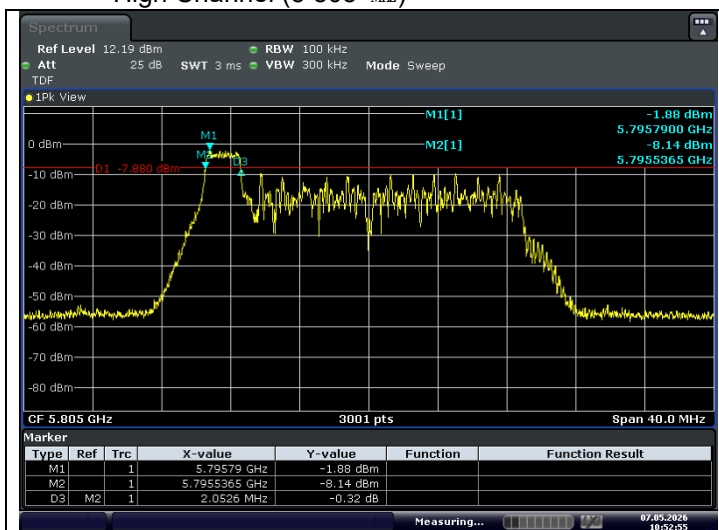


8 RU

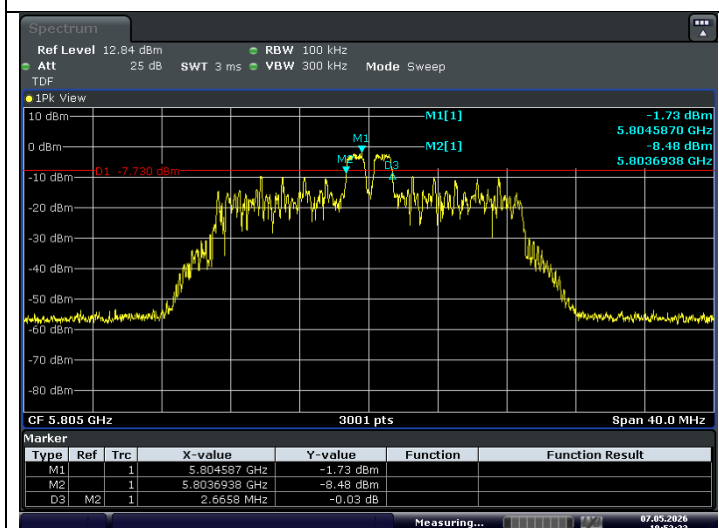


High Channel (5 805 MHz)

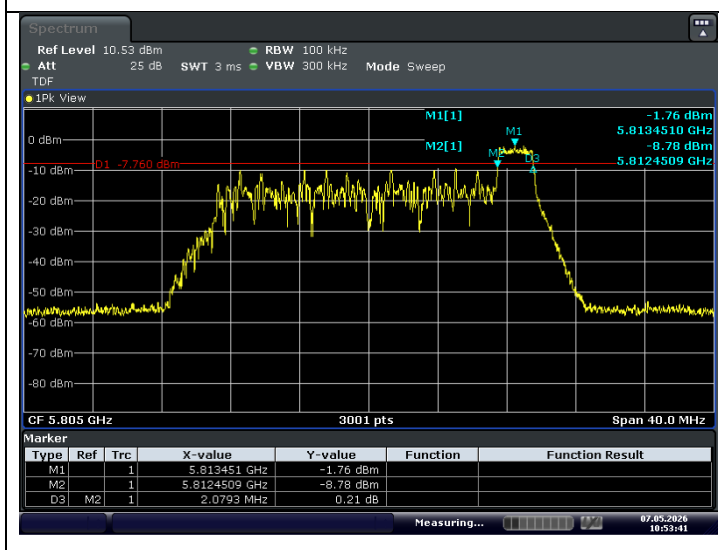
0 RU



4 RU

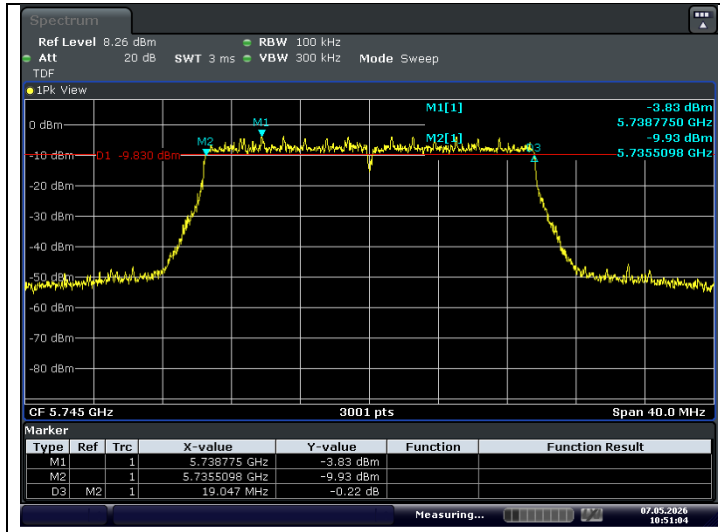


8 RU

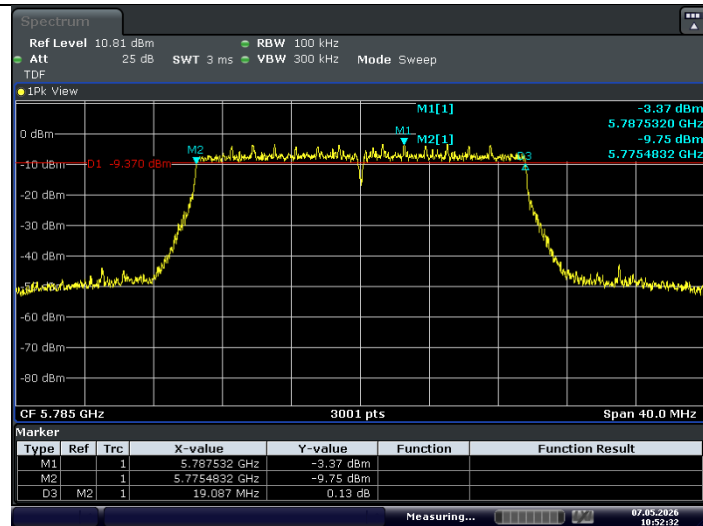


11ax_HE20_SU (UNII-3)

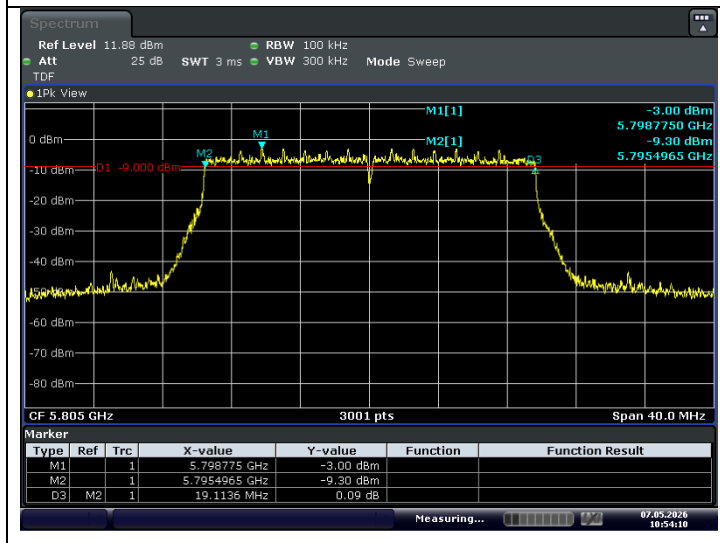
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)



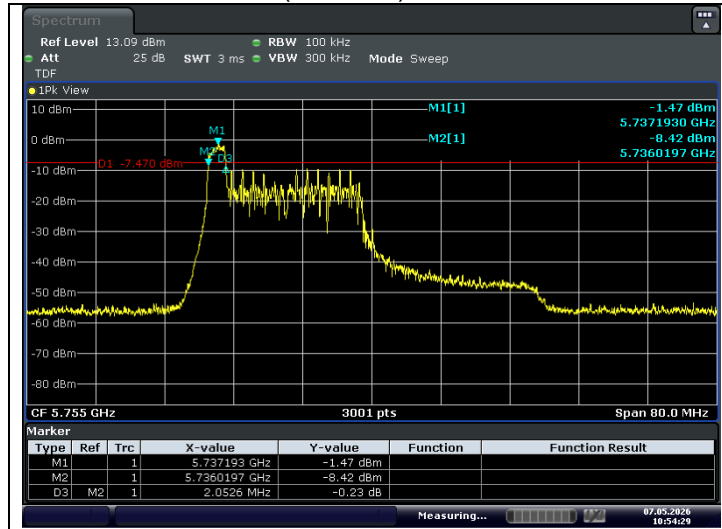
High Channel
(5 805 MHz)



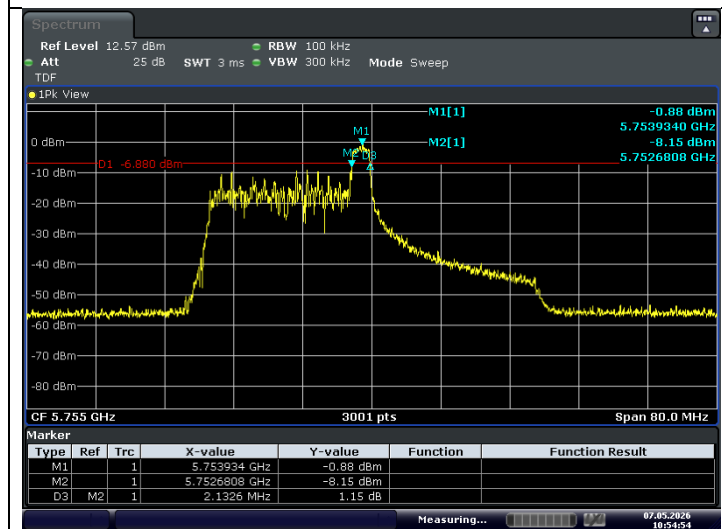
11ax_HE40_26T (UNII-3)

0 RU

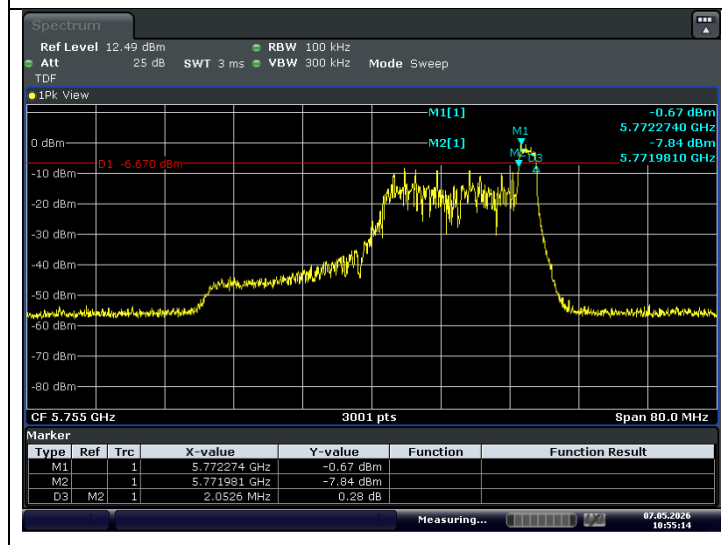
Low Channel (5 755 MHz)



8 RU

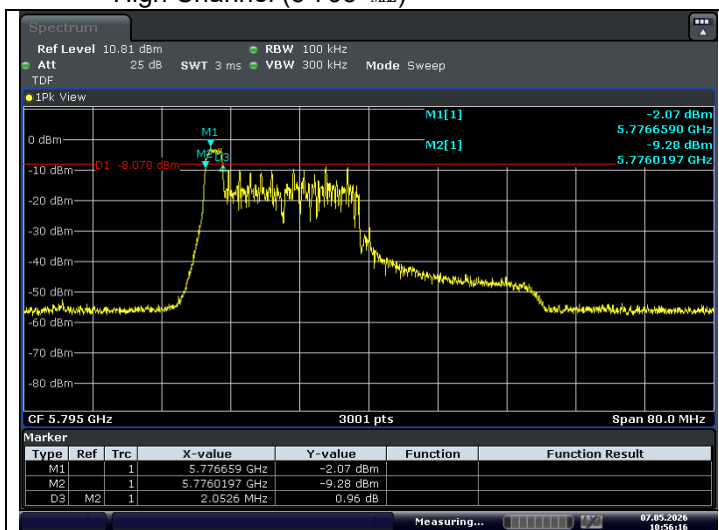


17 RU

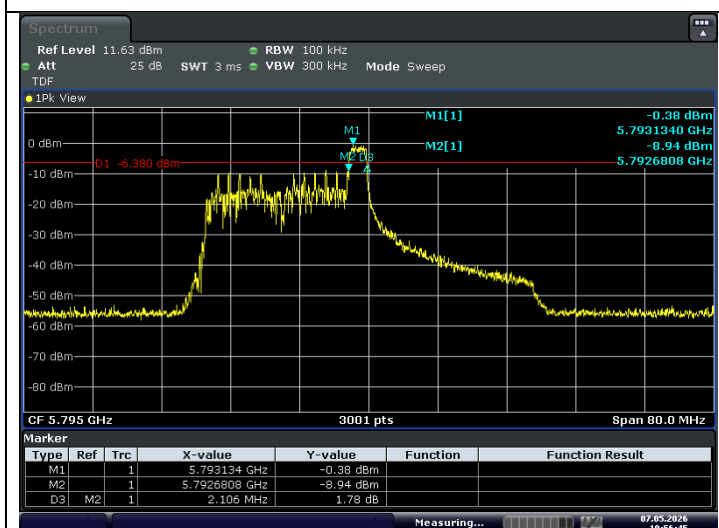


High Channel (5 795 MHz)

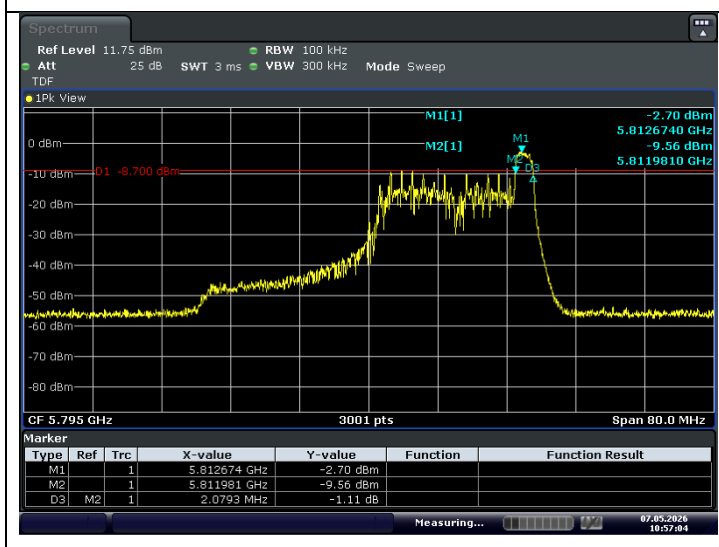
0 RU



8 RU

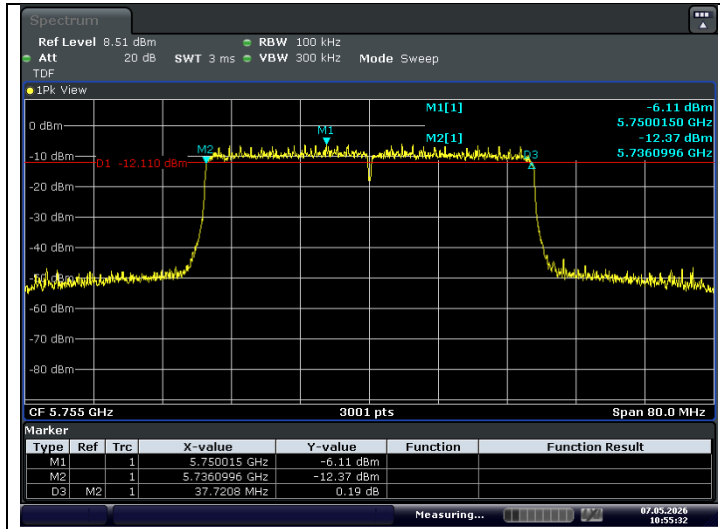


17 RU

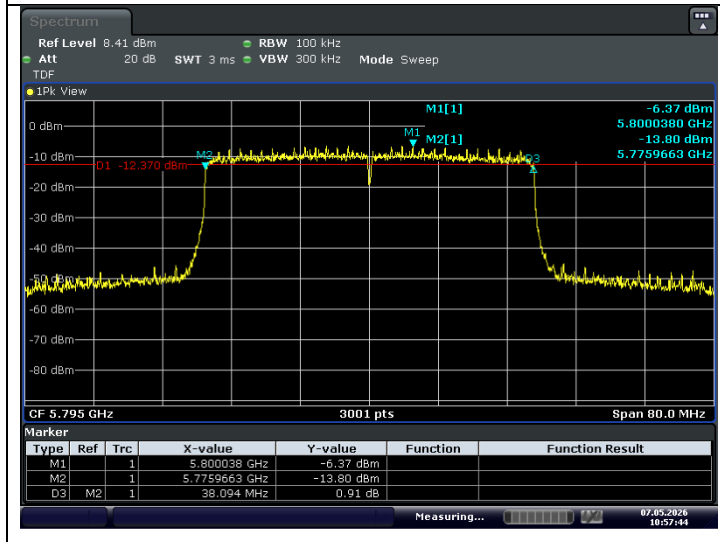


11ax_HE40_SU (UNII-3)

Low Channel
(5 755 MHz)



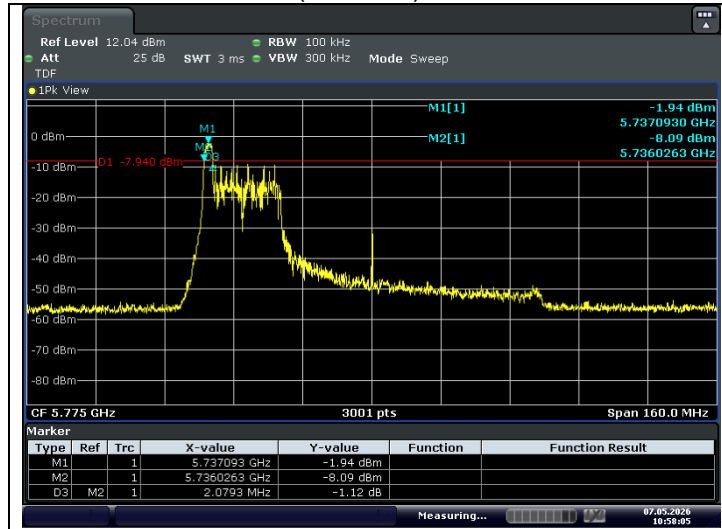
High Channel
(5 795 MHz)



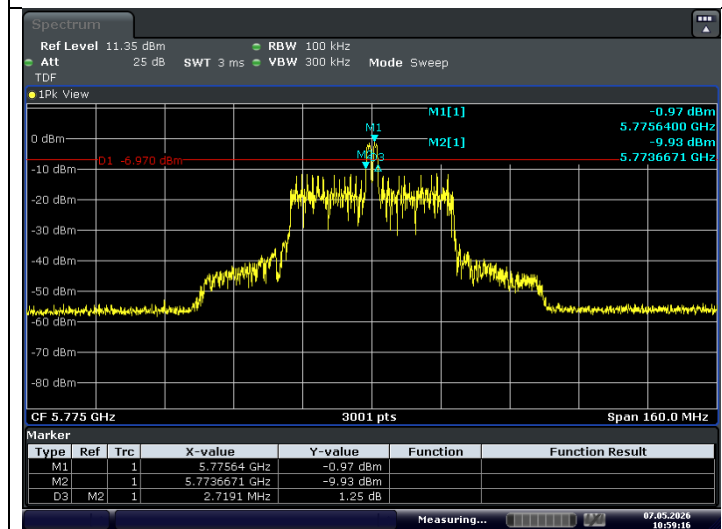
11ax_HE80_26T (UNII-3)

0 RU

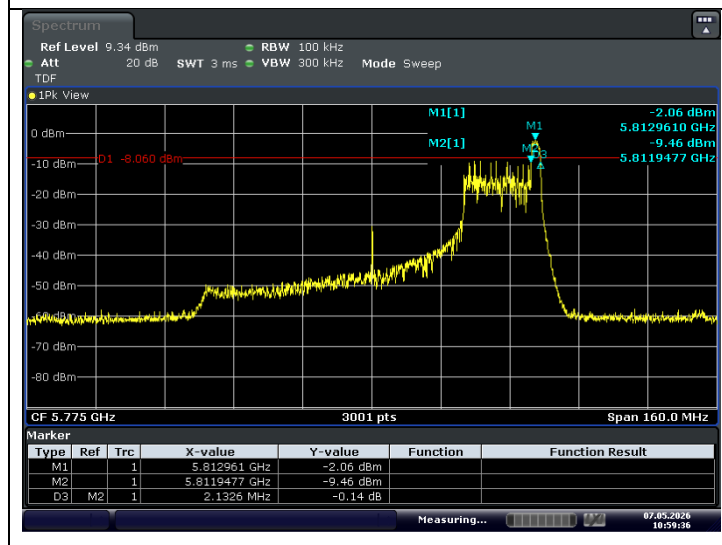
Middle Channel (5 775 MHz)



18 RU

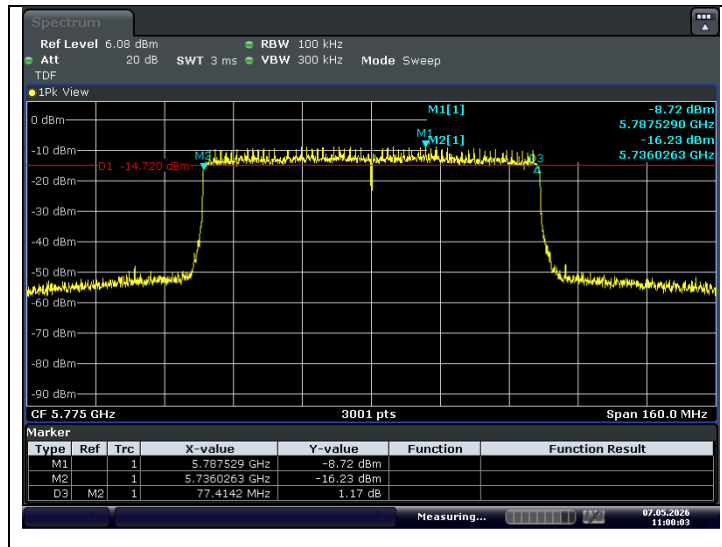


36 RU



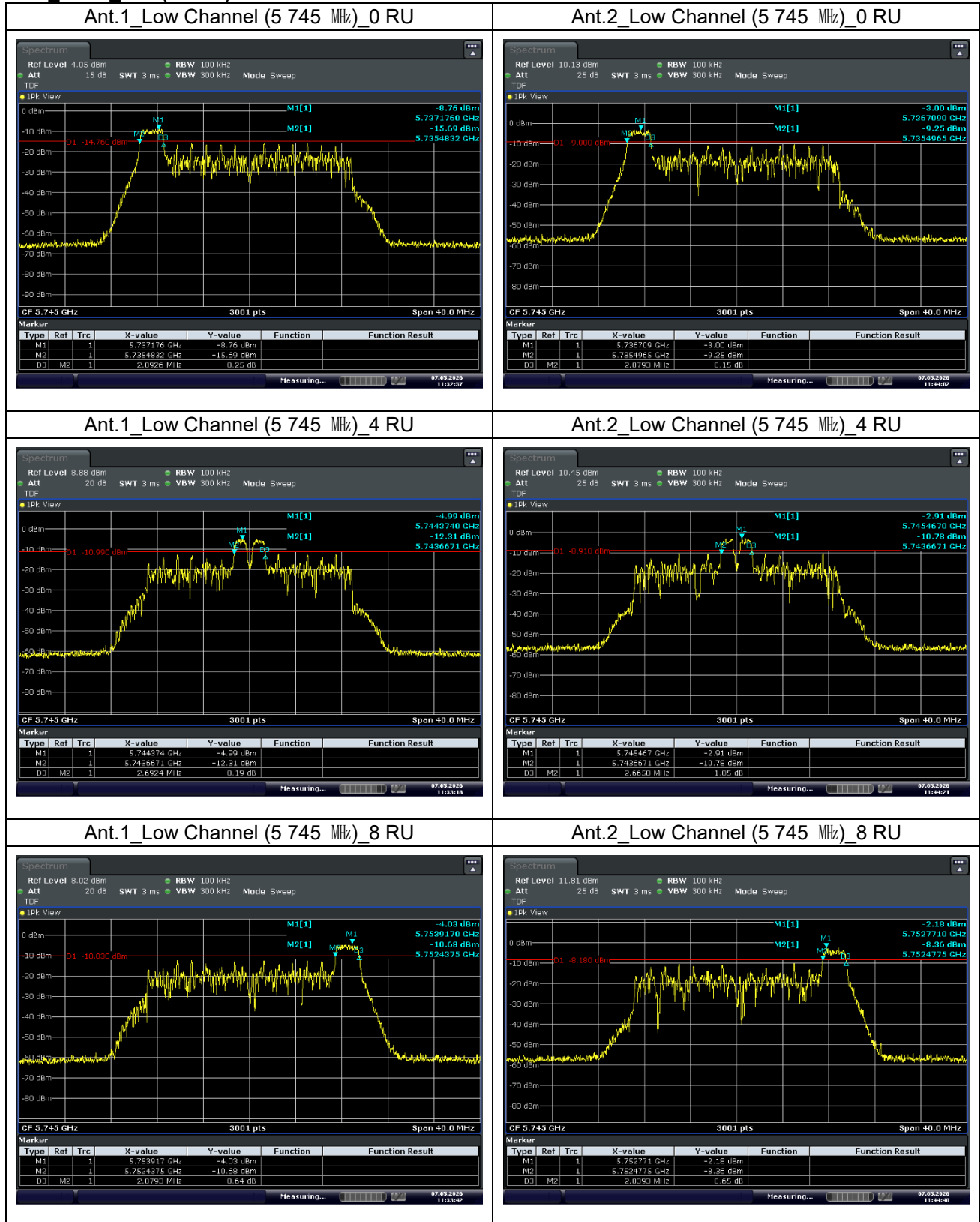
11ax_HE80_SU (UNII-3)

Middle Channel
 (5 775 MHz)

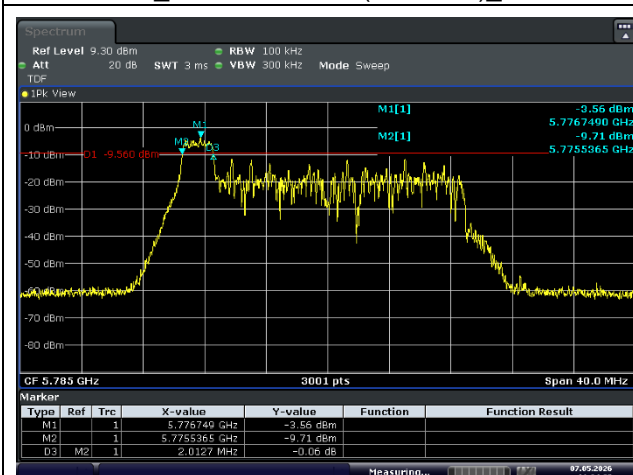


MIMO (Ant.1 + Ant.2)

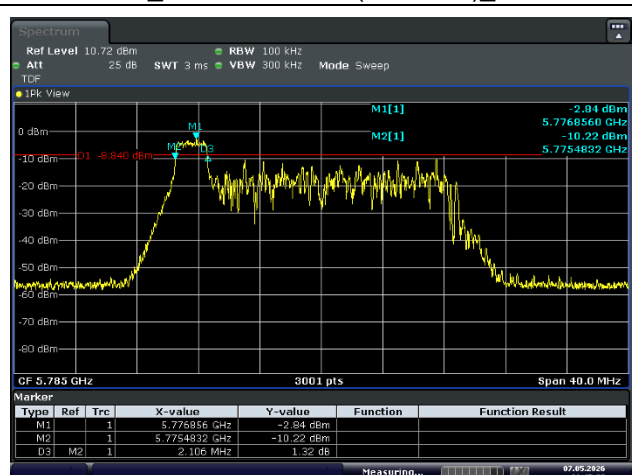
11ax_HE20_26T (UNII-3)



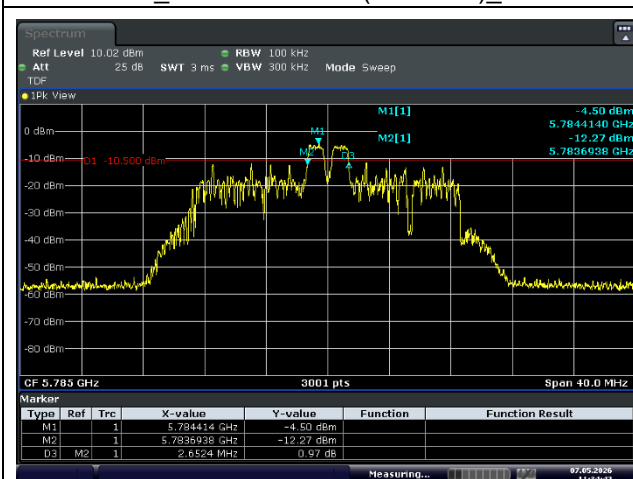
Ant.1_Middle Channel (5 785 MHz)_0 RU



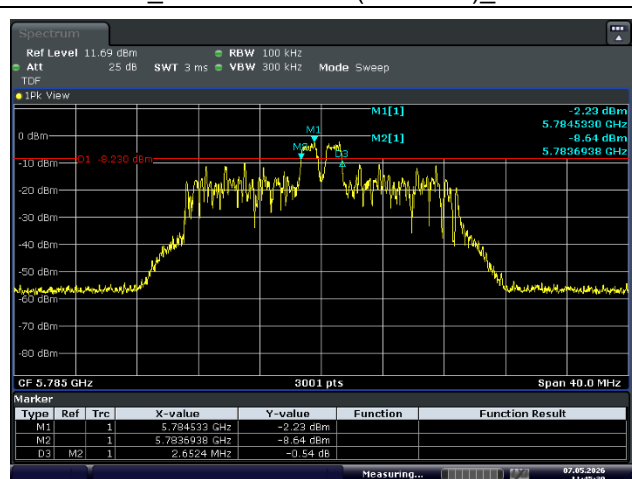
Ant.2_Middle Channel (5 785 MHz)_0 RU



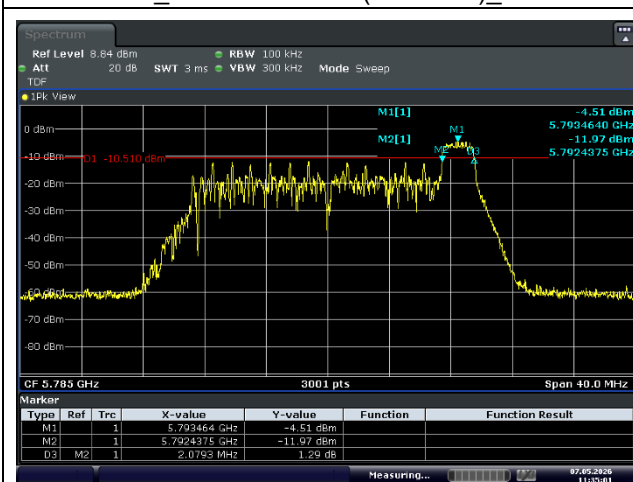
Ant.1_Middle Channel (5 785 MHz)_4 RU



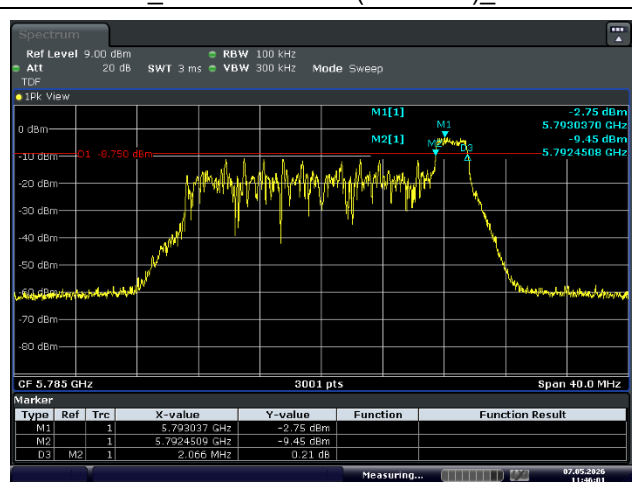
Ant.2_Middle Channel (5 785 MHz)_4 RU



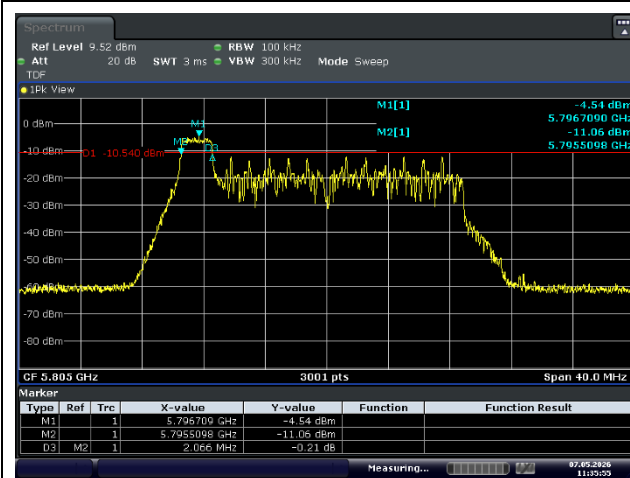
Ant.1_Middle Channel (5 785 MHz)_8 RU



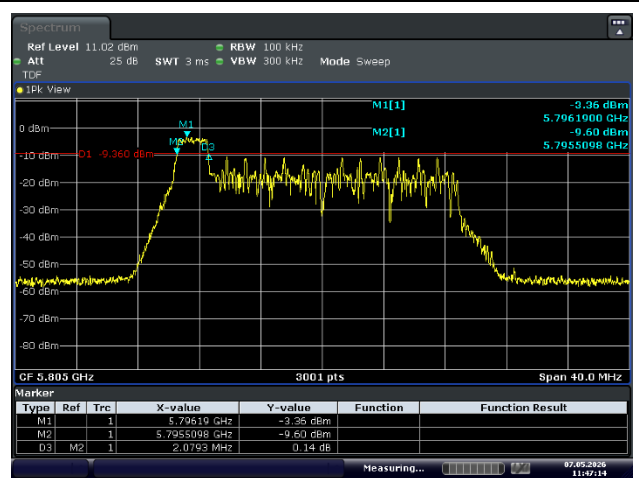
Ant.2_Middle Channel (5 785 MHz)_8 RU



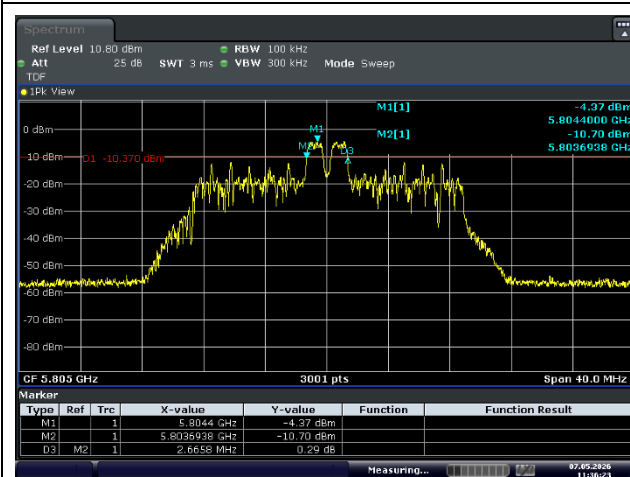
Ant.1_High Channel (5 805 MHz)_0 RU



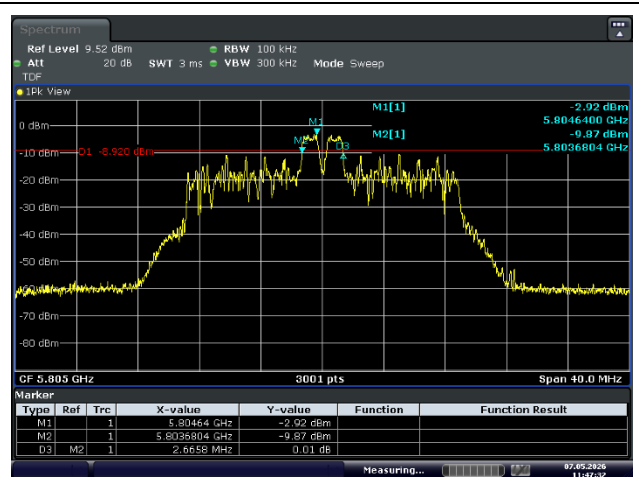
Ant.2_High Channel (5 805 MHz)_0 RU



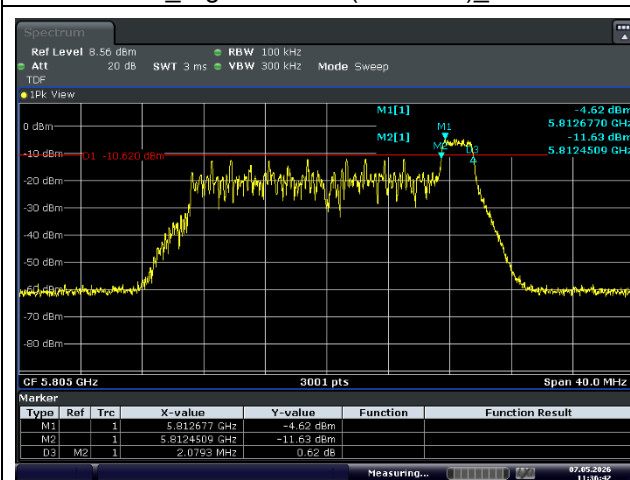
Ant.1_High Channel (5 805 MHz)_4 RU



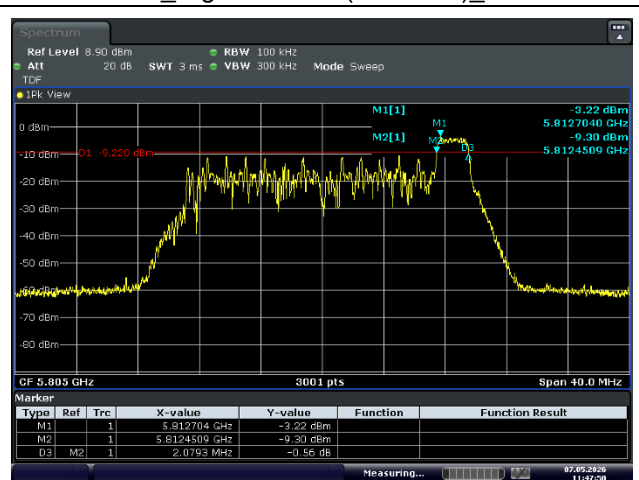
Ant.2_High Channel (5 805 MHz)_4 RU



Ant.1_High Channel (5 805 MHz)_8 RU

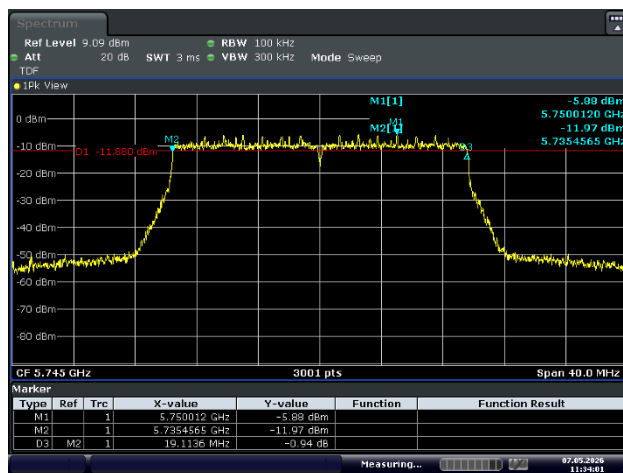


Ant.2_High Channel (5 805 MHz)_8 RU

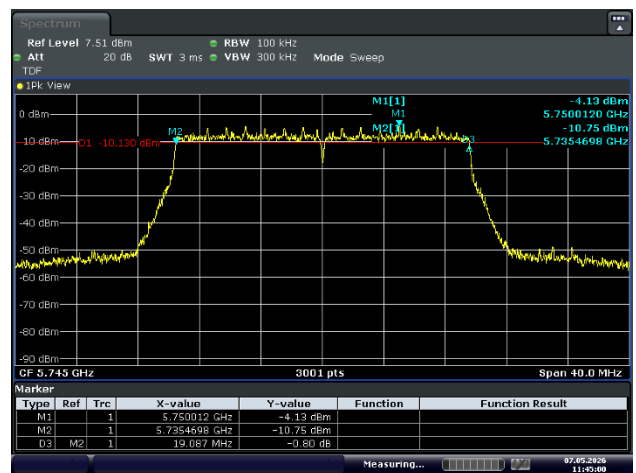


11ax_HE20_SU (UNII-3)

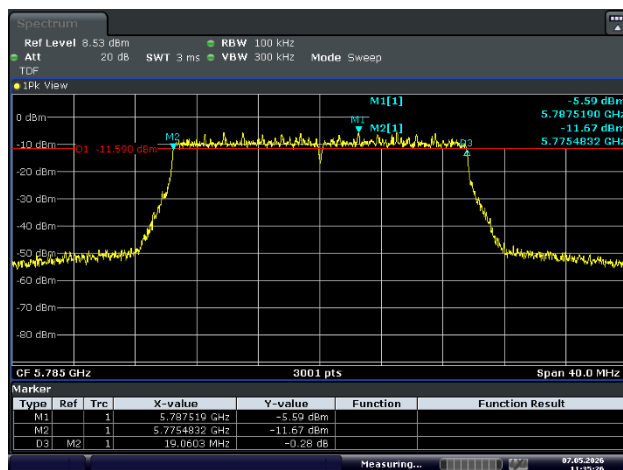
Ant.1_Low Channel (5 745 MHz)



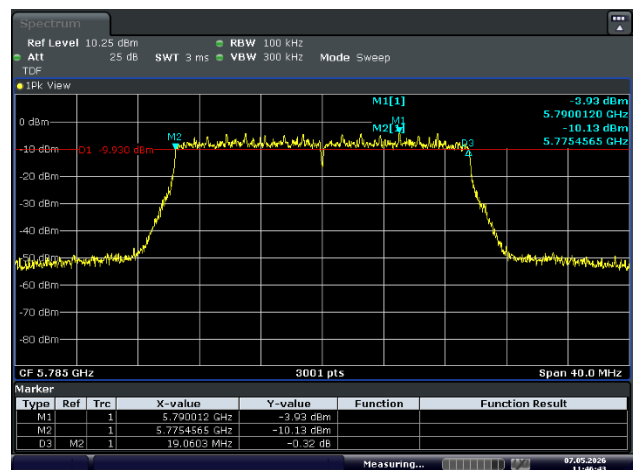
Ant.2_Low Channel (5 745 MHz)



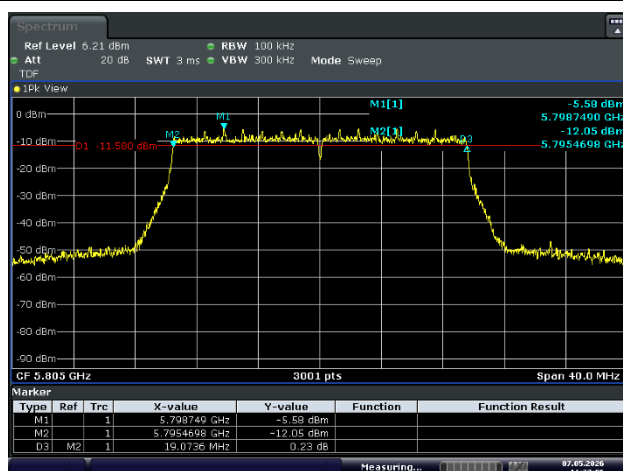
Ant.1_Middle Channel (5 785 MHz)



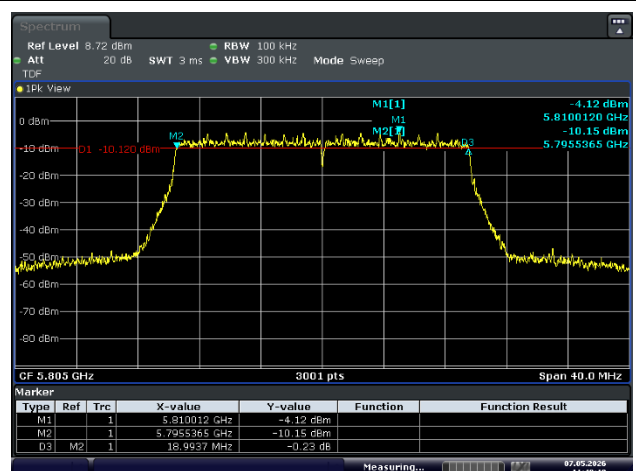
Ant.2_Middle Channel (5 785 MHz)



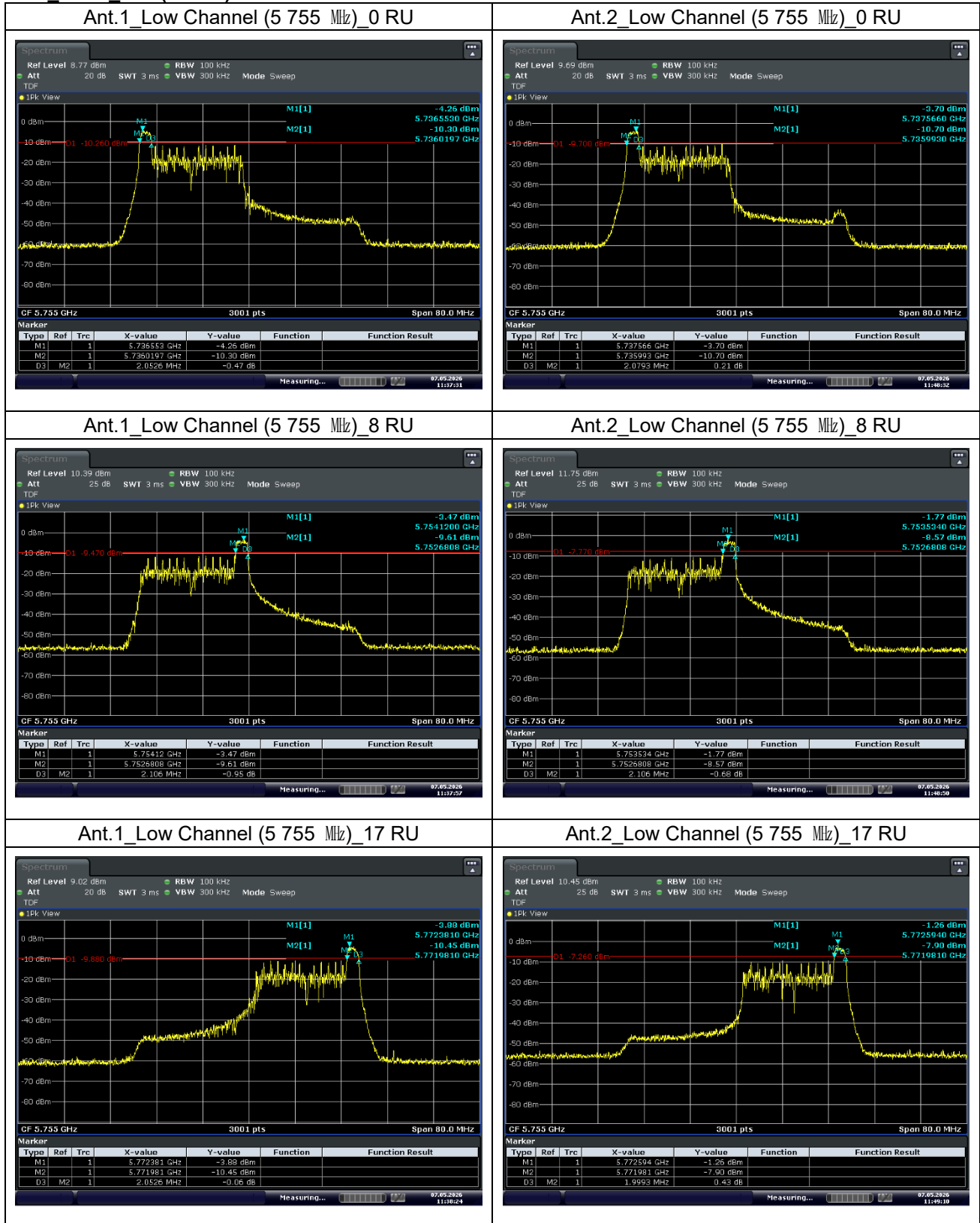
Ant.1_High Channel (5 805 MHz)



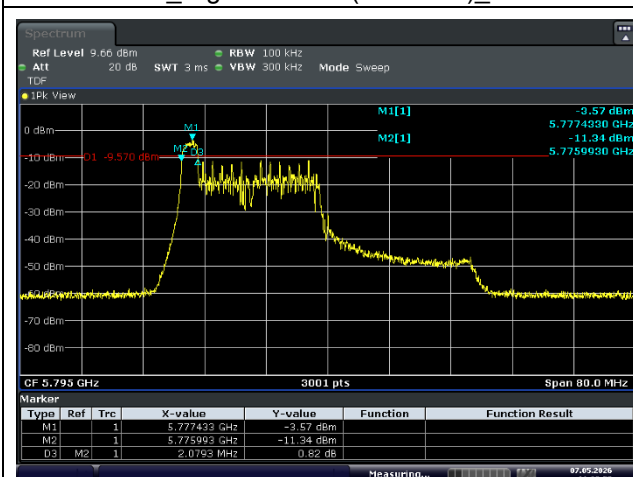
Ant.2_High Channel (5 805 MHz)



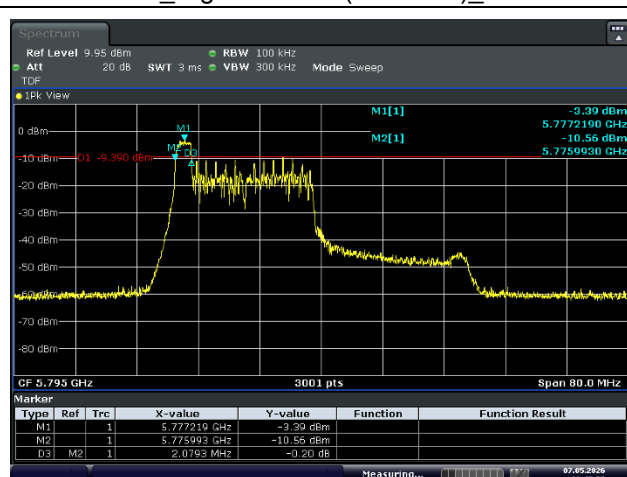
11ax_HE40_26T (UNII-3)



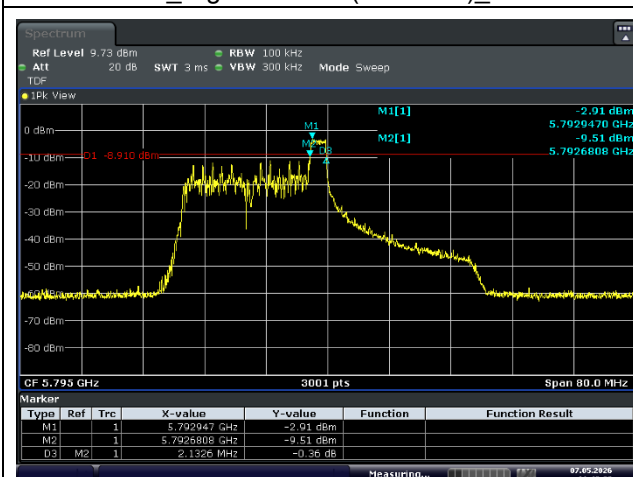
Ant.1_High Channel (5 795 MHz)_0 RU



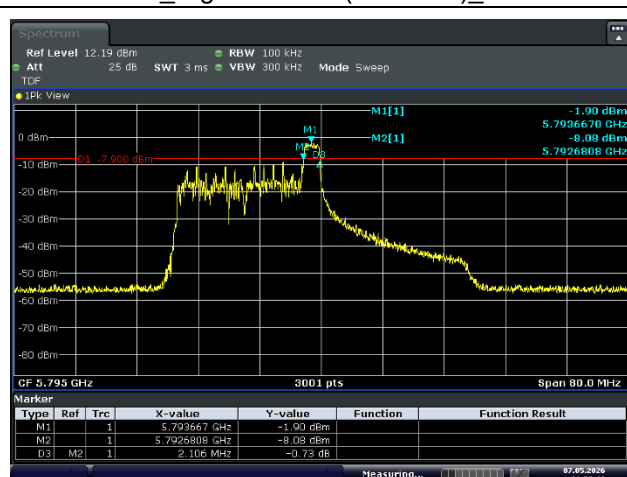
Ant.2_High Channel (5 795 MHz)_0 RU



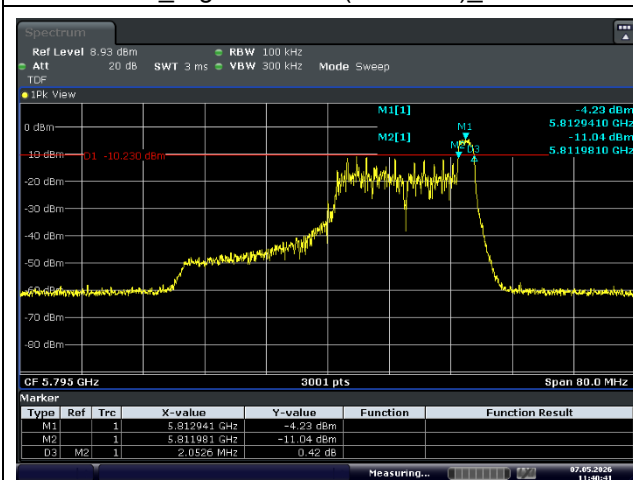
Ant.1_High Channel (5 795 MHz)_8 RU



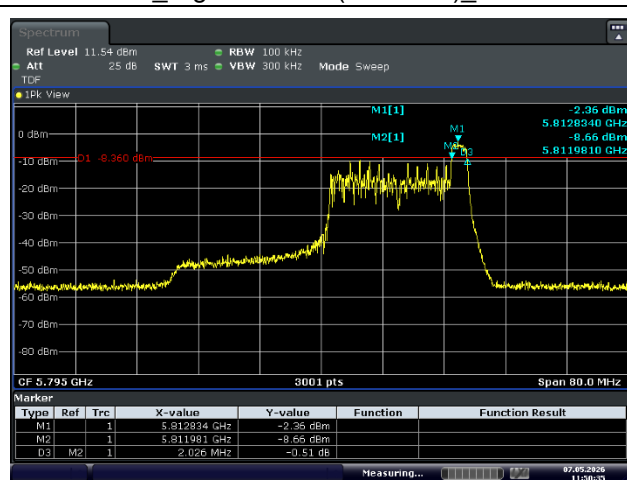
Ant.2_High Channel (5 795 MHz)_8 RU



Ant.1_High Channel (5 795 MHz)_17 RU

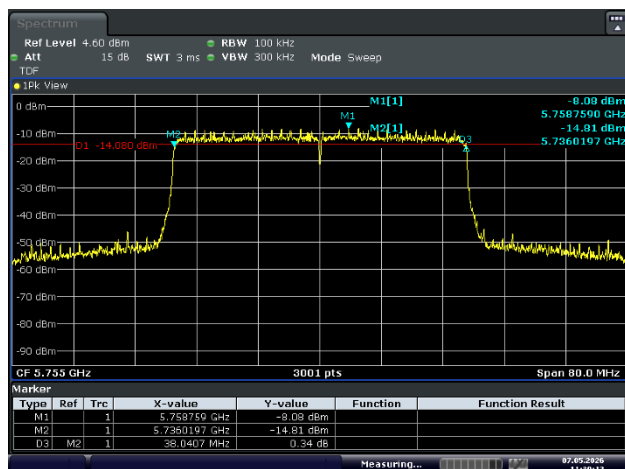


Ant.2_High Channel (5 795 MHz)_17 RU

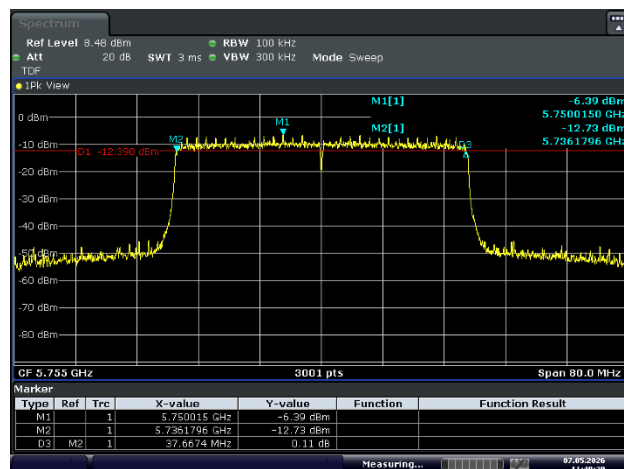


11ax_HE40_SU (UNII-3)

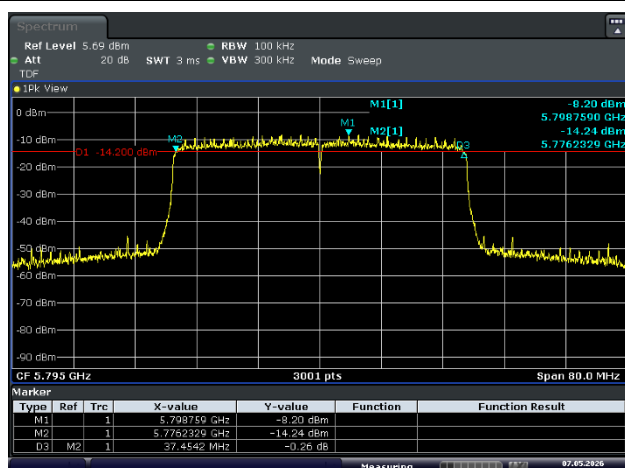
Ant.1_Low Channel (5 755 MHz)



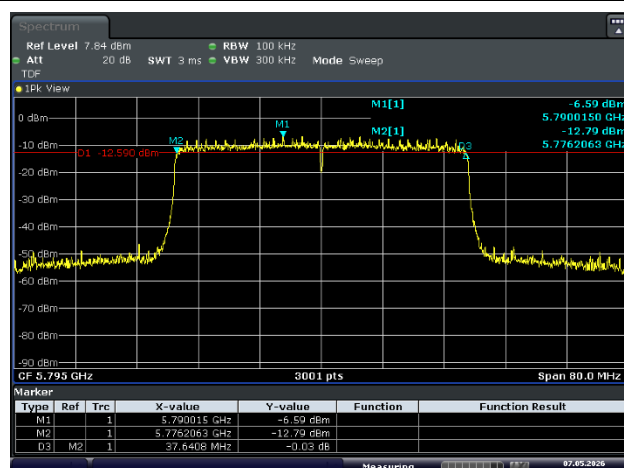
Ant.2_Low Channel (5 755 MHz)



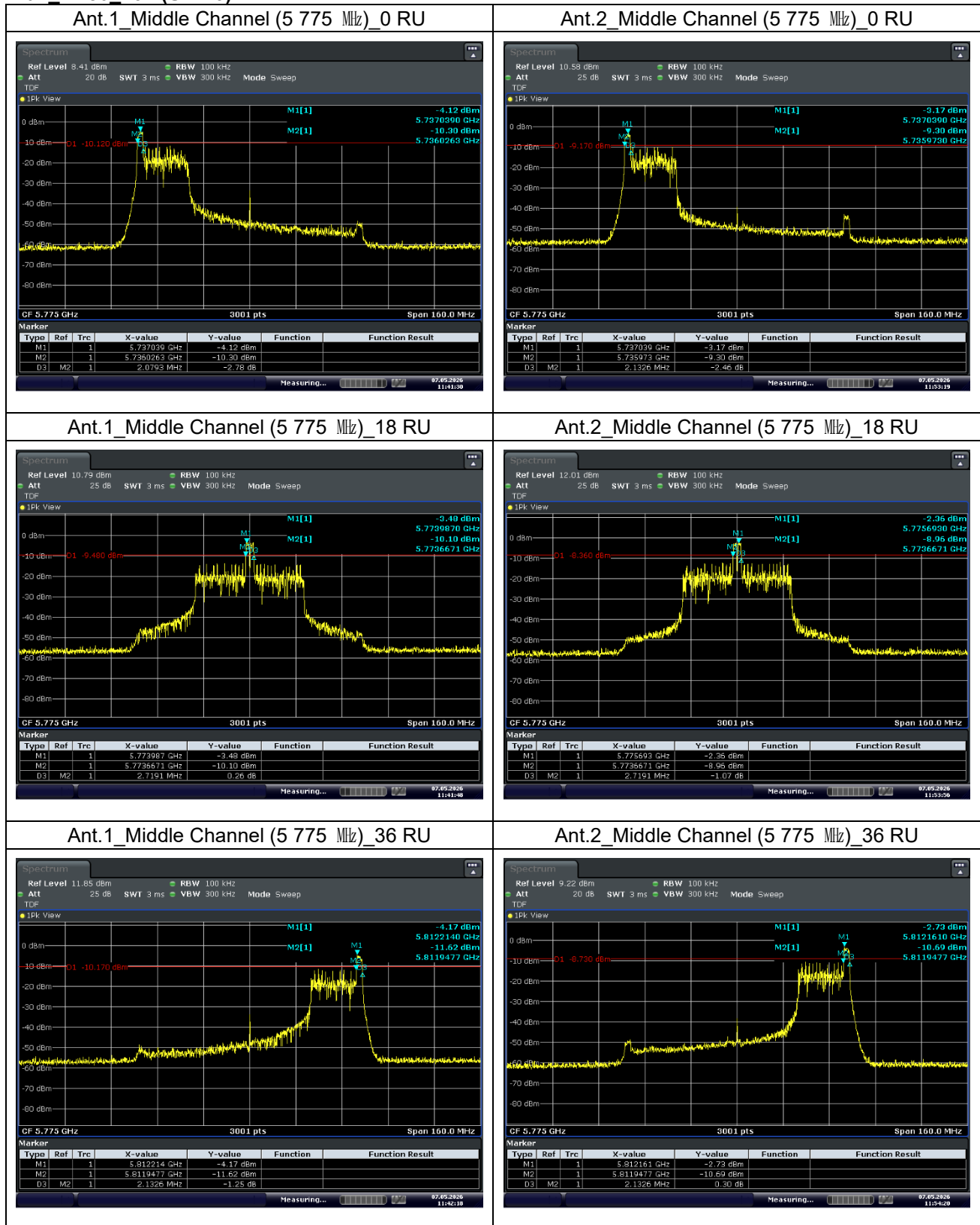
Ant.1_High Channel (5 795 MHz)



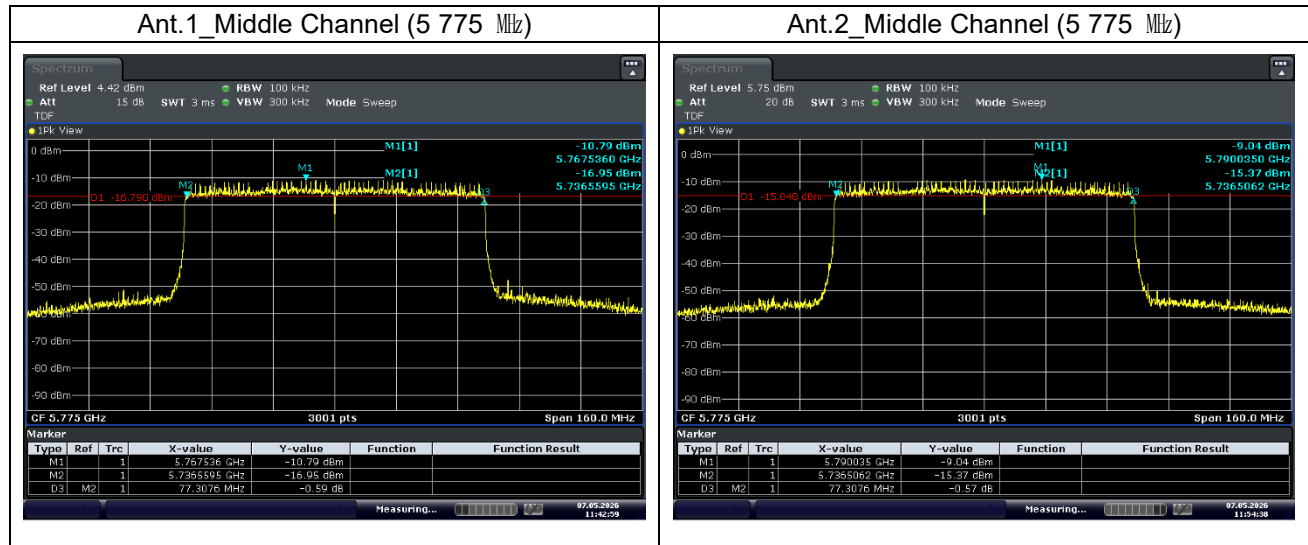
Ant.2_High Channel (5 795 MHz)



11ax_HE80_26T (UNII-3)



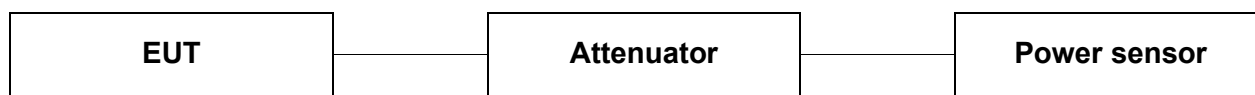
11ax_HE80_SU (UNII-3)



5. Maximum Conducted Output Power

5.1. Test Setup

5.1.1 RF Output Power



5.2. Limit

According to 15.407(a)(1)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power 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 maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to 15.407(a)(3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.3. Test Procedure

5.3.1 RF Output Power

1. This measurement settings are specified in section II.E.3.a of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

5.4. Test Result

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 %

SISO (Ant.3)

Test mode: 11ax_HE20_26T

Band	Freq. (MHz)	Average Power (dB m)			Antenna Gain (dB i)	E.I.R.P. (dB m)		
		RU Index				RU Index		
		Low	Middle	High		Low	Middle	High
UNII-1	5 180	2.13	2.60	2.53	3.90	6.03	6.50	6.43
	5 220	2.23	2.66	2.59		6.13	6.56	6.49
	5 240	2.41	2.44	2.30		6.31	6.34	6.20
UNII-3	5 745	2.48	2.56	2.25	2.00	4.48	4.56	4.25
	5 785	2.38	2.84	2.41		4.38	4.84	4.41
	5 805	2.50	2.71	2.21		4.50	4.71	4.21

Test mode: 11ax_HE20_52T

Band	Freq. (MHz)	Average Power (dB m)			Antenna Gain (dB i)	E.I.R.P. (dB m)		
		RU Index				RU Index		
		Low	Middle	High		Low	Middle	High
UNII-1	5 180	2.44	2.58	2.15	3.90	6.34	6.48	6.05
	5 220	2.32	2.66	2.50		6.22	6.56	6.40
	5 240	2.27	2.48	2.37		6.17	6.38	6.27
UNII-3	5 745	2.48	2.71	2.34	2.00	4.48	4.71	4.34
	5 785	2.53	2.80	2.56		4.53	4.80	4.56
	5 805	2.55	2.71	2.45		4.55	4.71	4.45

Test mode: 11ax_HE20_106T

Band	Freq. (MHz)	Average Power (dB m)			Antenna Gain (dB i)	E.I.R.P. (dB m)		
		RU Index				RU Index		
		Low	Middle	High		Low	Middle	High
UNII-1	5 180	6.17	-	6.27	3.90	10.07	-	10.17
	5 220	6.48	-	6.28		10.38	-	10.18
	5 240	6.29	-	6.37		10.19	-	10.27
UNII-3	5 745	6.48	-	6.35	2.00	8.48	-	8.35
	5 785	6.58	-	6.69		8.58	-	8.69
	5 805	6.58	-	6.48		8.58	-	8.48

Test mode: 11ax_HE20_242T

Band	Freq. (MHz)	Average Power (dB m)			Antenna Gain (dB i)	E.I.R.P. (dB m)		
		RU Index				RU Index		
		Low	Middle	High		Low	Middle	High
UNII-1	5 180	-	6.19	-	3.90	-	10.09	-
	5 220	-	6.41	-		-	10.31	-
	5 240	-	6.38	-		-	10.28	-
UNII-3	5 745	-	6.57	-	2.00	-	8.57	-
	5 785	-	6.72	-		-	8.72	-
	5 805	-	6.63	-		-	8.63	-

Test mode: 11ax_HE20_SU

Band	Freq. (MHz)	Average Power (dB m)			Antenna Gain (dB i)	E.I.R.P. (dB m)		
		RU Index				RU Index		
		Low	Middle	High		Low	Middle	High
UNII-1	5 180	-	8.00	-	3.90	-	11.90	-
	5 220	-	8.22	-		-	12.12	-
	5 240	-	8.10	-		-	12.00	-
UNII-3	5 745	-	8.19	-	2.00	-	10.19	-
	5 785	-	8.36	-		-	10.36	-
	5 805	-	8.27	-		-	10.27	-

Band	Limit								
	Frequency (MHz)	Fixed Limit (dB m)		Min. 26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)		
		Client	Access Point				Client	Access Point	
							Cond.	Cond.	E.I.R.P
U-NII 1	5 180	23.98	30		3.90	23.98	30	21	
	5 220								
	5 240								
U-NII 3	5 745	30			2.00	30		-	
	5 785								
	5 805								

Remark;

1. E.I.R.P. (dB m) = Average Power (dB m) + Antenna Gain (dB i)