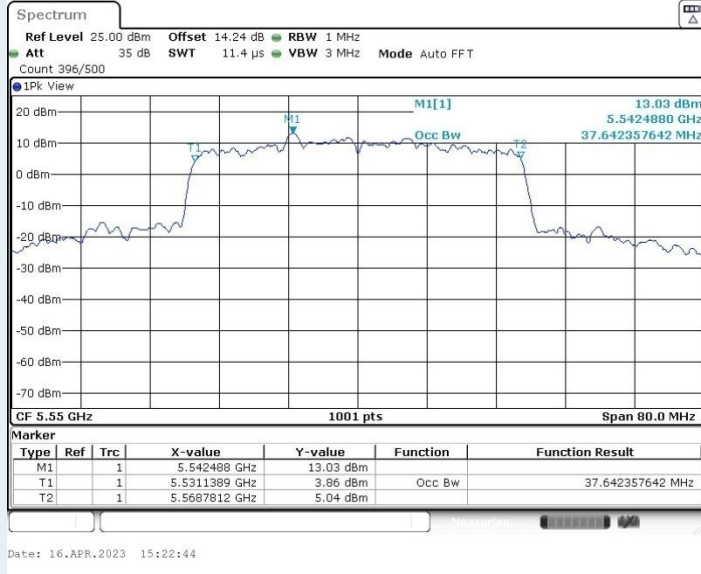
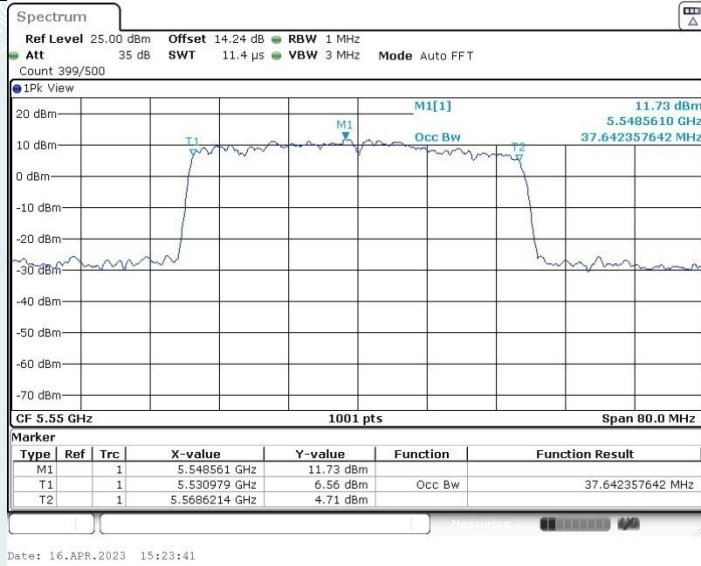


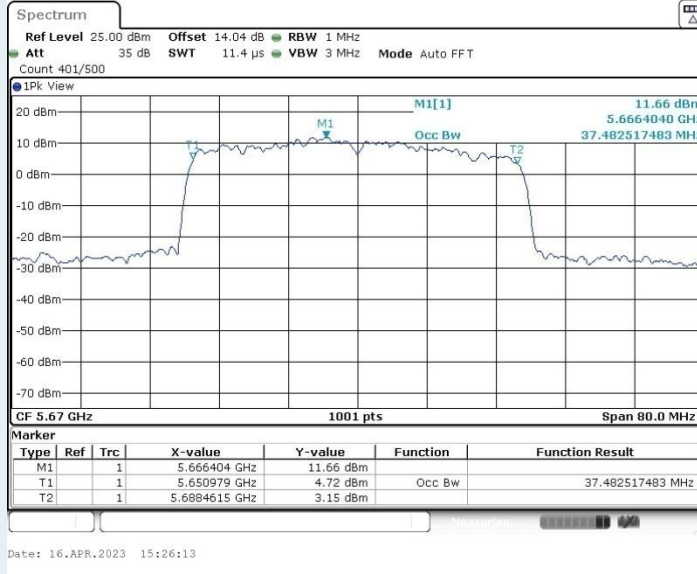
802.11ax HE40 MIMO_Ant1_5550MHz



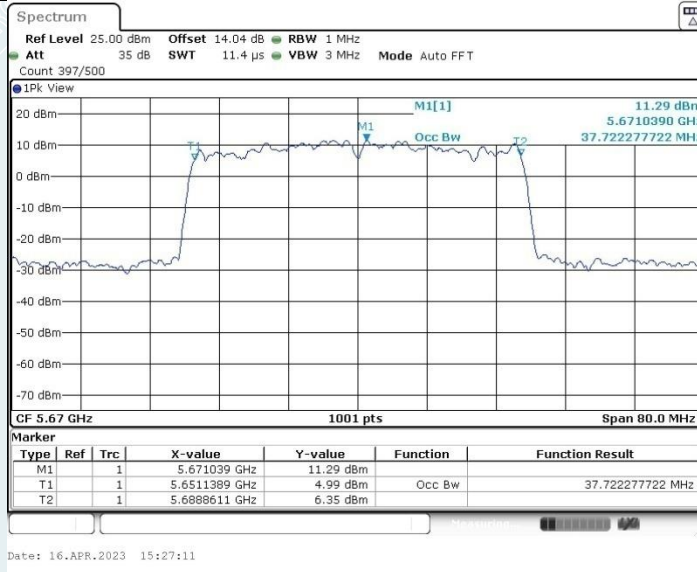
802.11ax HE40 MIMO_Ant2_5550MHz



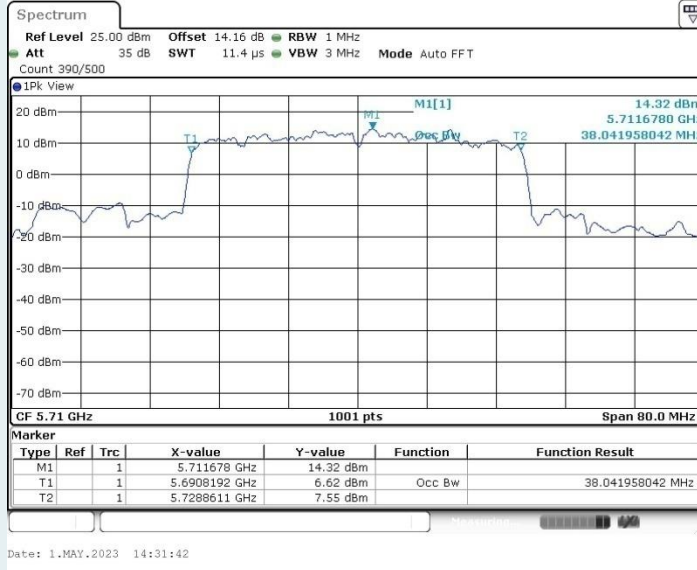
802.11ax HE40 MIMO_Ant1_5670MHz



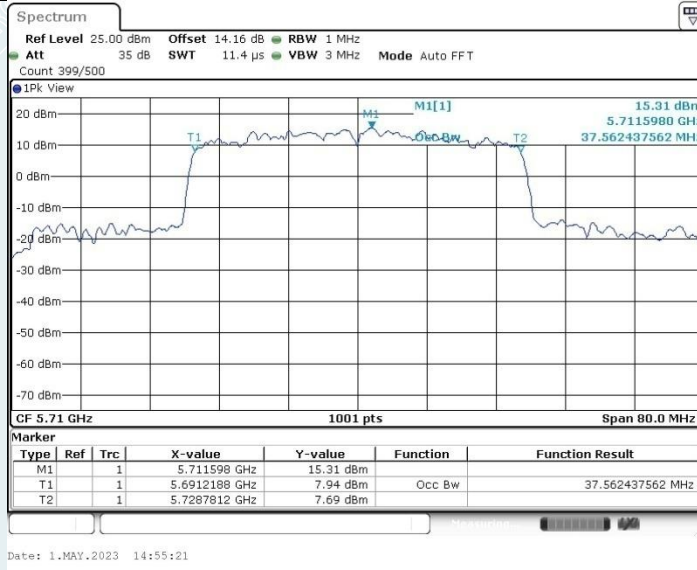
802.11ax HE40 MIMO_Ant2_5670MHz



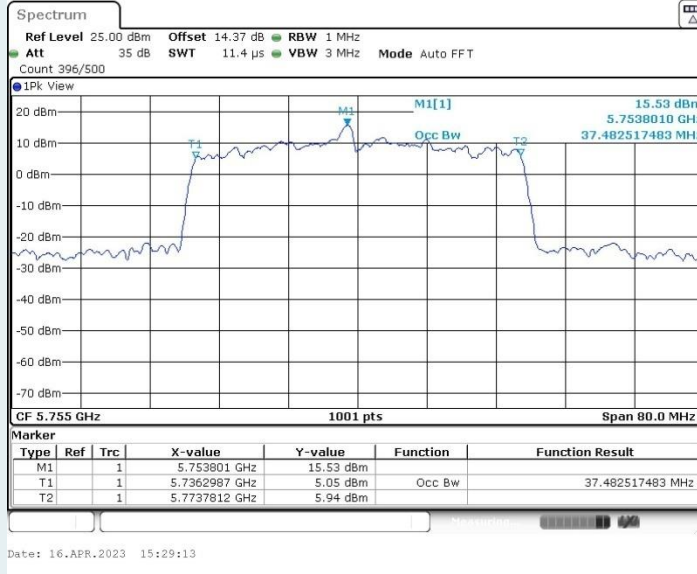
802.11ax HE40 MIMO_Ant1_5710MHz



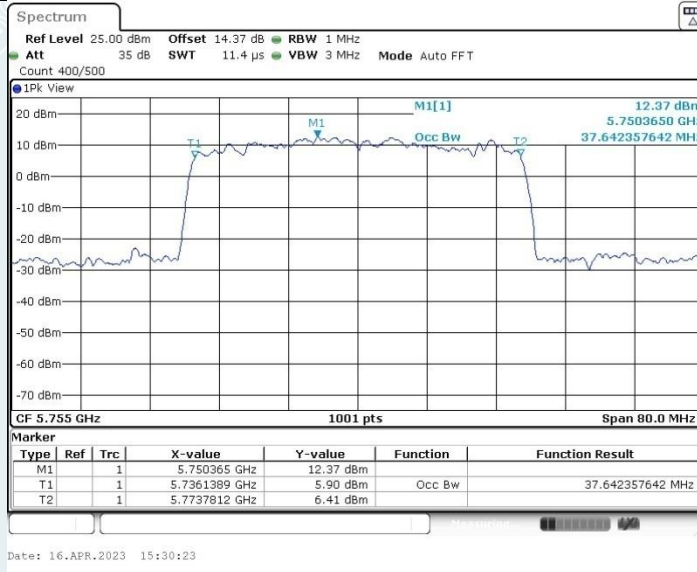
802.11ax HE40 MIMO_Ant2_5710MHz



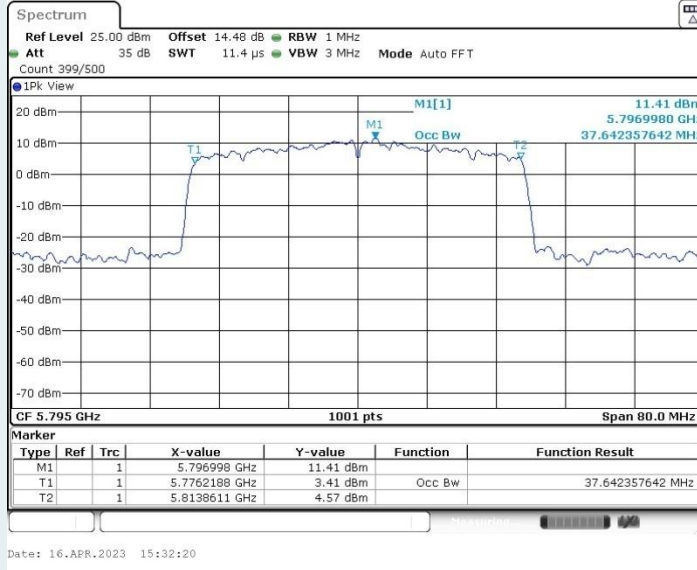
802.11ax HE40 MIMO_Ant1_5755MHz



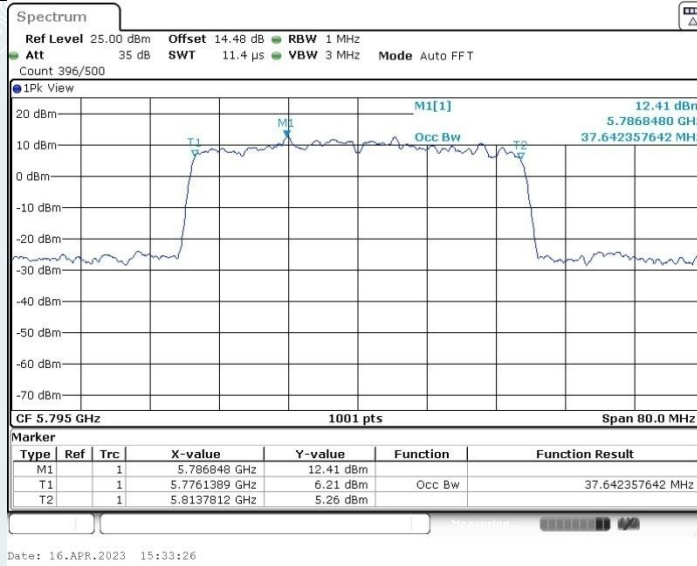
802.11ax HE40 MIMO_Ant2_5755MHz



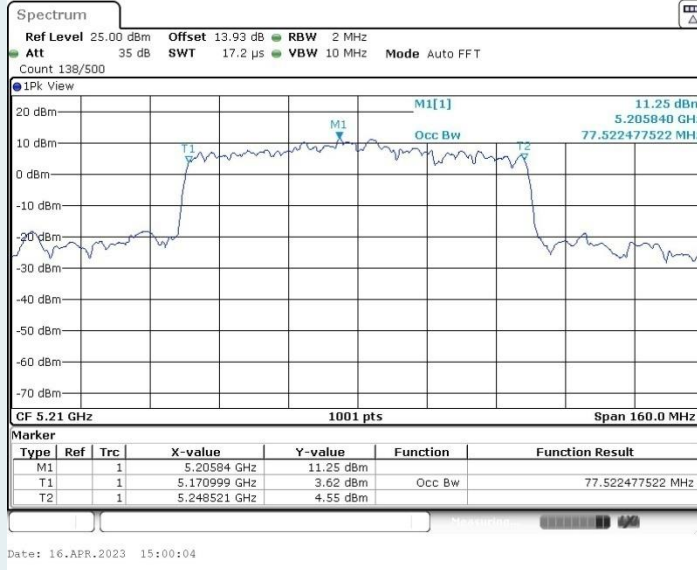
802.11ax HE40 MIMO_Ant1_5795MHz



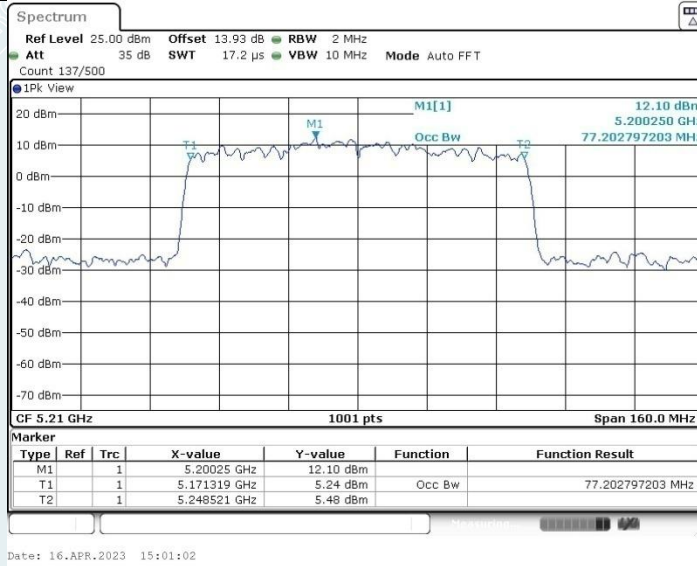
802.11ax HE40 MIMO_Ant2_5795MHz



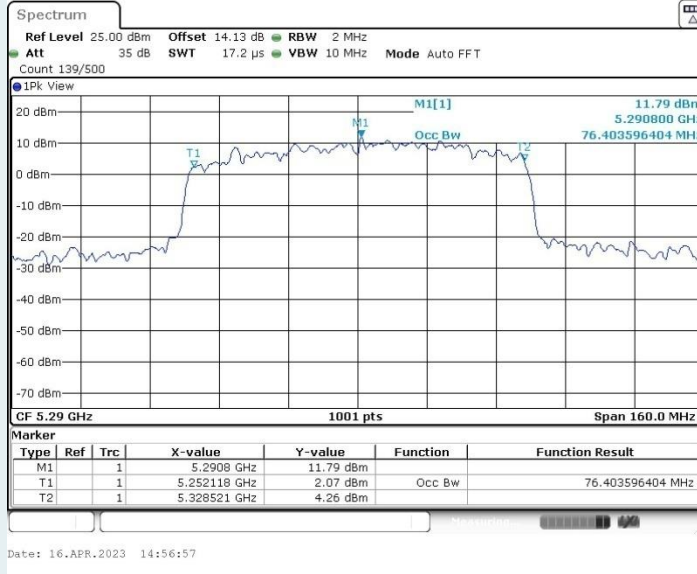
802.11ax HE80 MIMO_Ant1_5210MHz



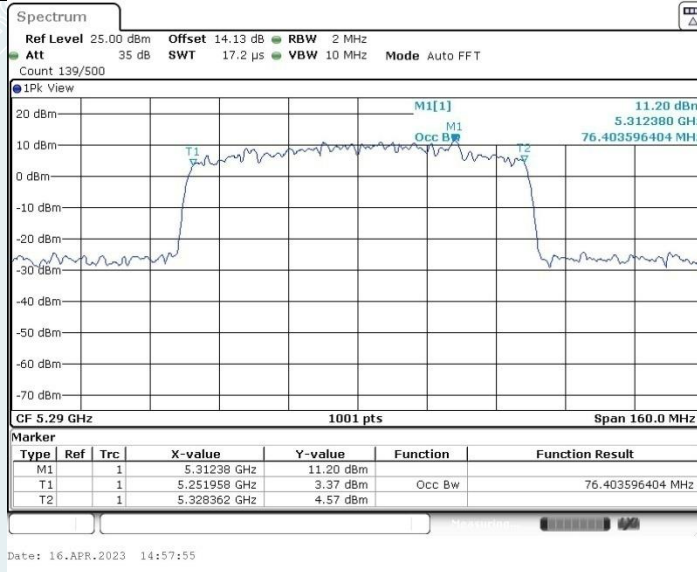
802.11ax HE80 MIMO_Ant2_5210MHz



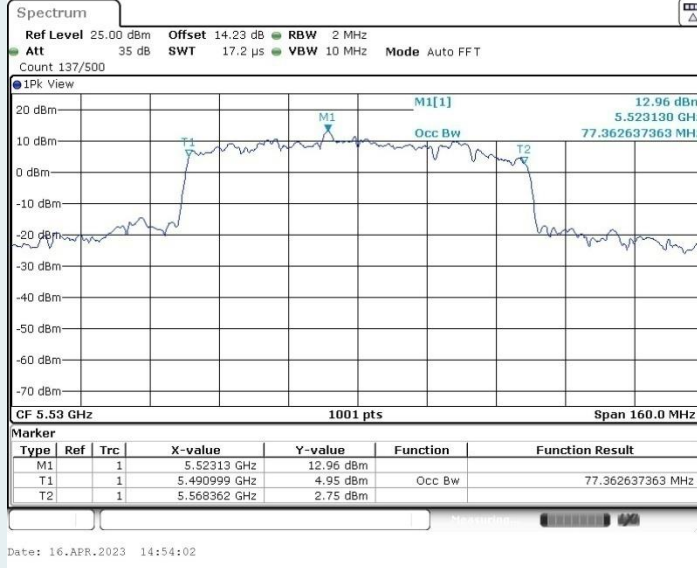
802.11ax HE80 MIMO_Ant1_5290 MHz



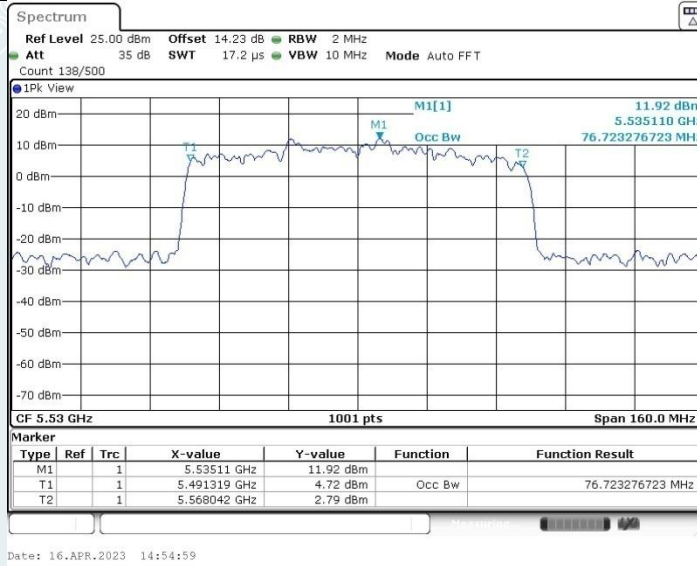
802.11ax HE80 MIMO_Ant1_5290 MHz

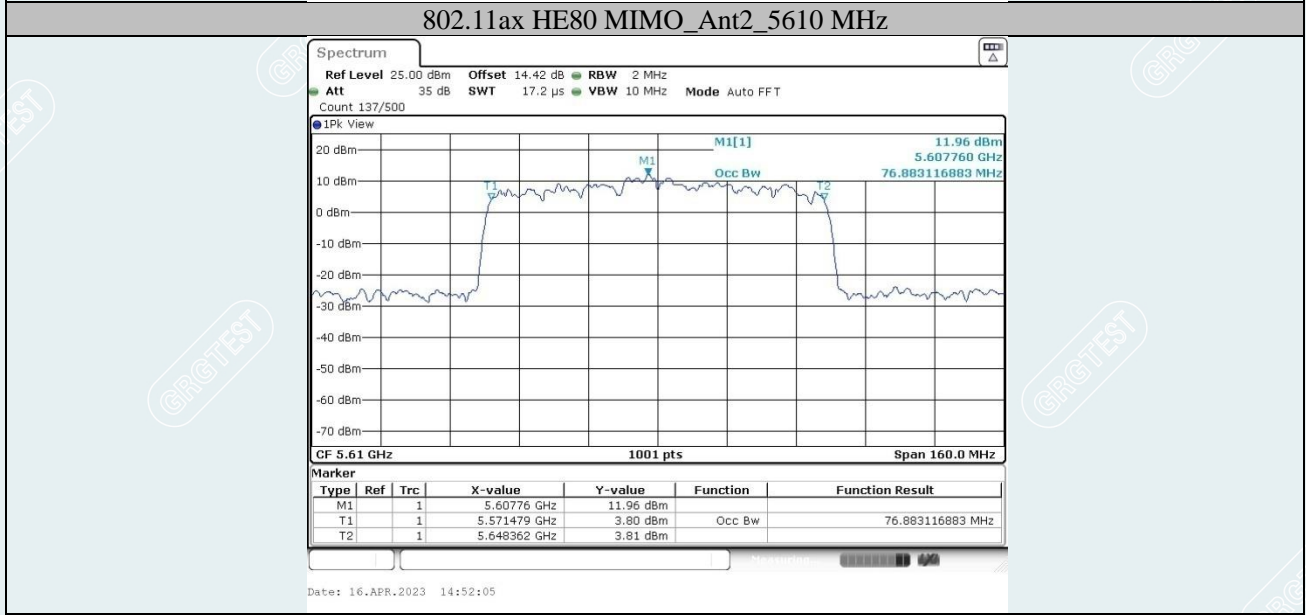


802.11ax HE80 MIMO_Ant1_5530 MHz

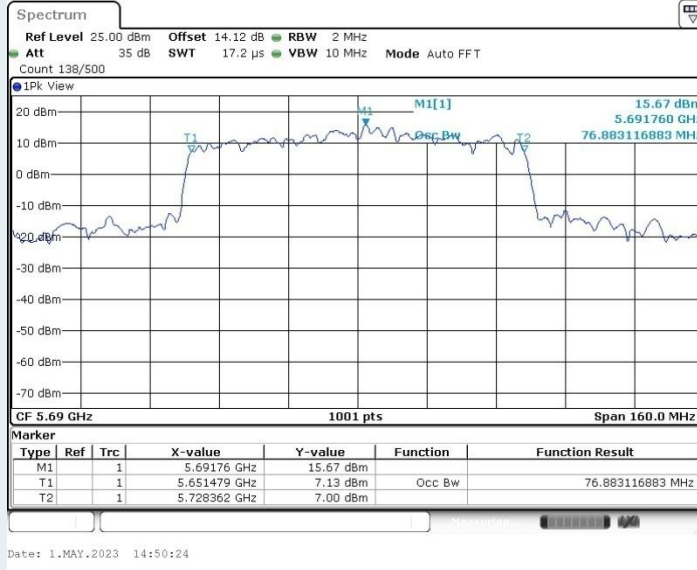


802.11ax HE80 MIMO_Ant2_5530 MHz

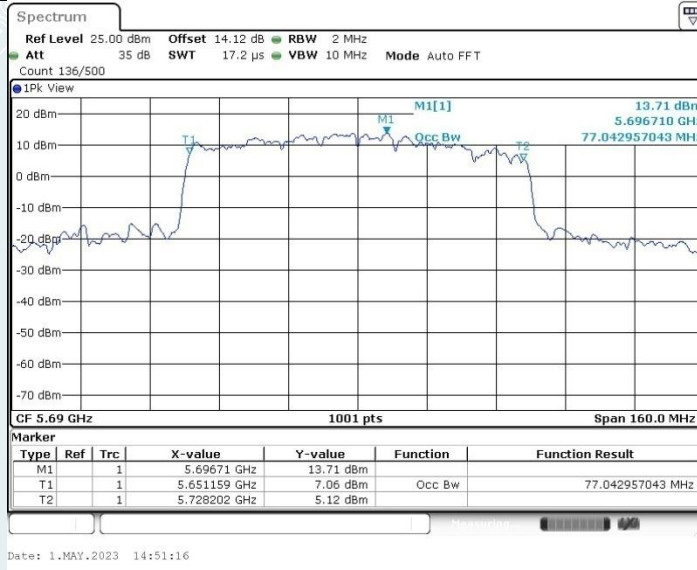




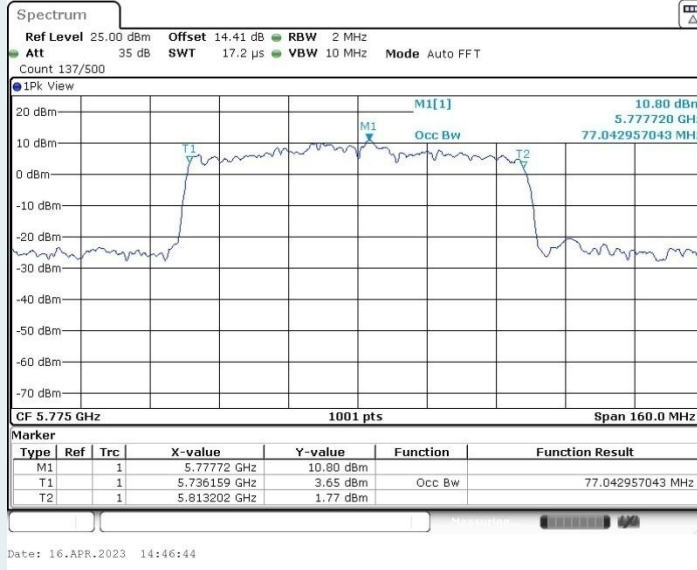
802.11ax HE80 MIMO_Ant1_5690 MHz



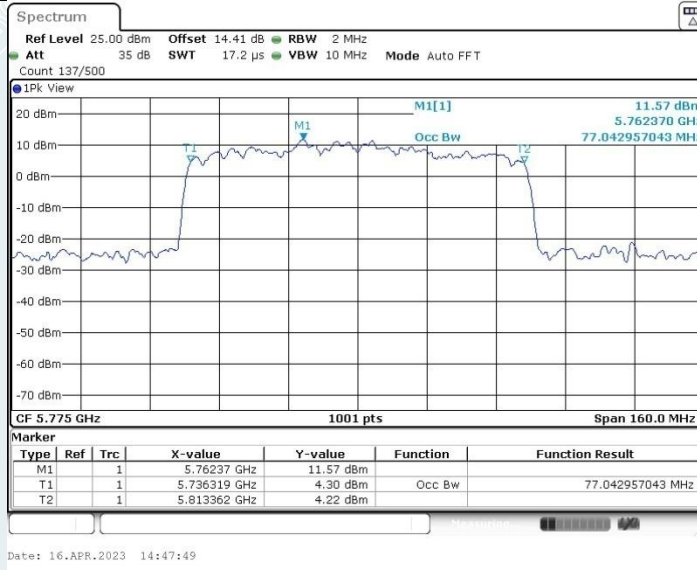
802.11ax HE80 MIMO_Ant2_5690 MHz



802.11ax HE80 MIMO_Ant1_5775MHz



802.11ax HE80 MIMO_Ant2_5775MHz



9. OUTPUT POWER

9.1 LIMITS

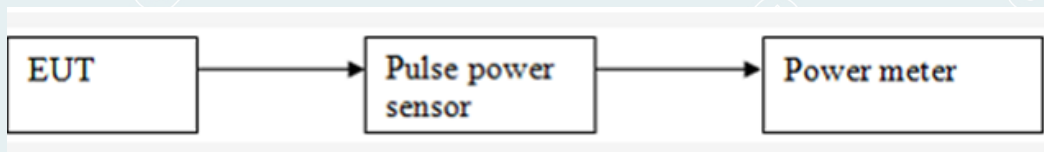
The FCC 15.407(a),The maximum conducted output power should not exceed:

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p \leq 125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-2A	All Device	250mW(23.98dBm) or 11dBm+10 log B,Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-2C	All Device	250mW(23.98dBm) or 11dBm+10 log B,Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-3	All Device	1W(30dBm)

9.2 TEST PROCEDURES

- 1) The RF output of EUT was connected to the broadband average RF power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2) Set to the maximum power setting and enable the EUT transmit continuously.
- 3) Measure the conducted output power and record the results in the test report.

9.3 TEST SETUP



----- The following blanks -----

9.4 TEST RESULTS

Environmental Conditions	23.2°C/67%RH/101.0kPa	Test Voltage	AC 120V/60HZ
Tested By	Qing Tingting	Tested Date	2023-05-09 ~ 2023-05-25

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)		antenna 1 Limit (dBm)	antenna 2 Limit (dBm)	Result
			antenna 1	antenna 2			
802.11a	U-NII-1	5180	18.28	20.38	30.0	30.0	Pass
		5200	20.41	21.45			Pass
		5240	20.18	21.32			Pass
	U-NII-2A	5260	17.83	18.88	24.0	24.0	Pass
		5280	20.11	20.63			Pass
		5320	17.89	19.04			Pass
	U-NII-2C	5500	19.53	18.71	24.0	24.0	Pass
		5580	20.70	21.70			Pass
		5700	19.38	21.14			Pass
		5720	17.78	17.74			22.81
	U-NII-3	5720	10.34	10.39	30.0	30.0	Pass
		5745	20.08	21.12			Pass
		5785	19.83	20.71			Pass
		5825	19.78	20.74			Pass

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11n HT20	U-NII-1	5180	19.02	19.82	22.45	29.5	Pass
		5200	19.07	19.84	22.48		Pass
		5240	19.47	20.60	23.08		Pass
	U-NII-2A	5260	17.43	18.01	20.74	23.54	Pass
		5280	18.16	18.62	21.41		Pass
		5320	17.51	18.09	20.82		Pass
	U-NII-2C	5500	17.84	17.90	20.88	23.08	Pass
		5580	17.48	18.07	20.80		Pass
		5700	17.46	17.65	20.57		Pass
		5720	16.15	16.18	19.18		21.93
	U-NII-3	5720	8.91	9.01	11.97	29.15	Pass
		5745	19.21	20.01	22.64		Pass
		5785	18.97	19.81	22.42		Pass
		5825	18.87	19.67	22.30		Pass

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11ac VHT20	U-NII-1	5180	19.05	19.83	22.47	29.5	Pass
		5200	16.21	16.89	19.57		Pass
		5240	15.73	15.81	18.78		Pass
	U-NII-2A	5260	16.49	16.90	19.71	23.54	Pass
		5280	16.65	16.93	19.80		Pass
		5320	14.62	15.05	17.85		Pass
	U-NII-2C	5500	13.29	13.73	16.52	23.08	Pass
		5580	17.44	18.05	20.76		Pass
		5700	17.39	17.60	20.50		Pass
		5720	16.29	16.18	19.25	21.88	Pass
	U-NII-3	5720	9.16	8.84	12.01	29.15	Pass
		5745	19.33	20.09	22.73		Pass
		5785	18.99	19.97	22.52		Pass
		5825	19.03	19.75	22.41		Pass

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11ax HE20	U-NII-1	5180	17.52	19.08	21.38	29.5	Pass
		5200	18.78	19.58	22.21		Pass
		5240	18.39	19.36	21.91		Pass
	U-NII-2A	5260	16.92	18.16	20.60	23.54	Pass
		5280	17.56	17.84	20.71		Pass
		5320	17.08	18.48	20.85		Pass
	U-NII-2C	5500	18.94	19.19	22.08	23.08	Pass
		5580	18.24	18.76	21.52		Pass
		5700	17.33	17.36	20.36		Pass
		5720	16.39	16.30	19.36	22.72	Pass
	U-NII-3	5720	10.21	9.91	13.07	29.15	Pass
		5745	19.24	20.08	22.69		Pass
		5785	19.06	19.86	22.49		Pass
		5825	18.98	19.71	22.37		Pass

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11n HT40	U-NII-1	5190	18.09	18.92	21.53	29.5	Pass
		5230	19.66	20.85	23.30		Pass
	U-NII-2A	5270	17.65	17.93	20.80	23.54	Pass
		5310	17.54	18.07	20.82		Pass
	U-NII-2C	5510	19.36	19.35	22.36	23.08	Pass
		5550	19.29	18.87	22.09		Pass
		5670	19.10	19.03	22.07		Pass
		5710	18.11	18.09	21.11		Pass
	U-NII-3	5710	4.62	4.50	7.57	29.15	Pass
		5755	19.16	19.95	22.58		Pass
5795		19.06	19.73	22.41	Pass		

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11ac VHT40	U-NII-1	5190	16.32	16.81	19.58	29.5	Pass
		5230	19.75	20.87	23.35		Pass
	U-NII-2A	5270	17.65	17.95	20.81	23.54	Pass
		5310	17.13	17.44	20.30		Pass
	U-NII-2C	5510	19.37	19.25	22.32	23.08	Pass
		5550	18.80	19.21	22.02		Pass
		5670	19.14	18.93	22.04		Pass
		5710	18.06	17.94	21.01		Pass
	U-NII-3	5710	4.57	4.48	7.54	29.15	Pass
		5755	20.31	21.35	23.87		Pass
5795		20.93	22.05	24.53	Pass		

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11ax HE40	U-NII-1	5190	16.51	16.97	19.75	29.5	Pass
		5230	16.03	16.87	19.48		Pass
	U-NII-2A	5270	16.11	16.03	19.08	23.54	Pass
		5310	19.57	19.98	22.79		Pass
	U-NII-2C	5510	18.31	17.95	21.14	23.08	Pass
		5550	18.59	18.77	21.69		Pass
		5670	17.95	17.58	20.78		Pass
		5710	18.63	18.59	21.62		Pass
	U-NII-3	5710	6.11	6.04	9.09	29.15	Pass
		5755	19.40	20.30	22.88		Pass
5795		19.29	20.17	22.76	Pass		

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11ac VHT80	U-NII-1	5210	19.65	20.11	22.90	29.5	Pass
	U-NII-2A	5290	19.01	17.37	21.28	23.54	Pass
	U-NII-2C	5530	18.71	18.81	21.77	23.08	Pass
		5610	18.47	18.82	21.66		Pass
		5690	17.49	17.55	20.53		Pass
	U-NII-3	5690	0.76	1.23	4.01	29.15	Pass
		5775	19.23	20.07	22.68		Pass

Test Mode	Band	Frequency (MHz)	AVG Conducted Output Power with Duty Factor (dBm)			Limit (dBm)	Result
			antenna 1	antenna 2	total		
802.11ax HE80	U-NII-1	5210	15.51	16.41	19.00	29.5	Pass
	U-NII-2A	5290	16.23	16.64	19.45	23.54	Pass
	U-NII-2C	5530	18.61	18.53	21.58	23.08	Pass
		5610	19.61	20.07	22.86		Pass
		5690	17.80	17.81	20.82		Pass
	U-NII-3	5690	1.78	2.21	5.01	29.15	Pass
		5775	19.51	20.47	23.03		Pass

U-NII-1 :

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
So Directional gain = $10\log[(10^{2.84/20} + 10^{4.09/20})^2/2]$ dBi, that is Directional gain (dBi) = 6.5

Note2: Antenna gain is greater than 6, Output Power Limit = $30 - (6.5 - 6) = 29.5$ dBm

U-NII-2A :

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
So Directional gain = $10\log[(10^{3.07/20} + 10^{3.81/20})^2/2]$ dBi, that is Directional gain (dBi) = 6.46

Note2: Antenna gain is greater than 6, Output Power Limit = $24 - (6.46 - 6) = 23.54$ dBm

U-NII-2C :

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
So Directional gain = $10\log[(10^{3.91/20} + 10^{3.90/20})^2/2]$ dBi, that is Directional gain (dBi) = 6.92

Note2: Antenna gain is greater than 6, Output Power Limit = $24 - (6.92 - 6) = 23.08$ dBm

Note3: For 802.11a 5720MHz antenna 1, Output Power Limit = $(11 + 10 \log 15.16) = 22.81$ dBm

Note4: For 802.11a 5720MHz antenna 2, Output Power Limit = $(11 + 10 \log 15.28) = 22.84$ dBm

Note5: For 802.11n HT20 MIMO 5720MHz, Output Power Limit = $(11 + 10 \log 15.32) - (6.92 - 6) = 21.93$ dBm

Note6: For 802.11ac VHT20 MIMO 5720MHz, Output Power Limit = $(11 + 10 \log 15.12) - (6.92 - 6) = 21.88$ dBm

Note7: For 802.11ax HE20 MIMO 5720MHz, Output Power Limit = $(11 + 10 \log 18.36) - (6.92 - 6) = 22.72$ dBm

U-NII-3:

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
So Directional gain = $10\log[(10^{3.81/20} + 10^{3.86/20})^2/2]$ dBi, that is Directional gain (dBi) = 6.85

Note2: Antenna gain is greater than 6, Output Power Limit = $30 - (6.85 - 6) = 29.15$ dBm

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10. POWER SPECTRAL DENSITY

10.1 LIMITS

FCC 15.407(a)

The maximum power spectral density should not exceed:

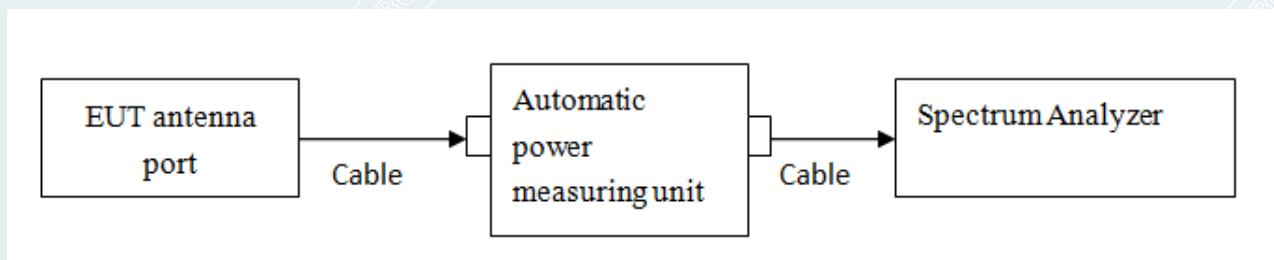
Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17dBm/MHz
	Indoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	17dBm/MHz
	Mobile and Portable Client Device	11dBm/MHz
U-NII-2A	All Device	11dBm/MHz
U-NII-2C	All Device	11dBm/MHz
U-NII-3	All Device	30dBm/500kHz

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.

10.2 TEST PROCEDURES

Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500kHz(For U-NII-3)
VBW	3MHz(For U-NII-1&U-NII-2A&U-NII-2C) 2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN} / \text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

10.3 TEST SETUP



10.4 TEST RESULTS

Environmental Conditions	22.6°C/66%RH/101.0kPa	Test Voltage	AC 120V/60HZ
Tested By	Qing Tingting	Tested Date	2023-05-08 ~ 2023-05-25

Test Mode	Band	Antenna	Frequency [MHz]	Result+ Duty factor [dBm/MHz]	Limit[dBm/MHz]	Verdict	
802.11a	U-NII-1	Ant1	5180	7.07	≤17	PASS	
		Ant2	5180	9.80	≤17	PASS	
		Ant1	5200	8.98	≤17	PASS	
		Ant2	5200	9.47	≤17	PASS	
		Ant1	5240	9.12	≤17	PASS	
		Ant2	5240	11.37	≤17	PASS	
	U-NII-2A	Ant1	5260	5.60	≤11	PASS	
		Ant2	5260	7.18	≤11	PASS	
		Ant1	5280	8.52	≤11	PASS	
		Ant2	5280	9.25	≤11	PASS	
		Ant1	5320	6.73	≤11	PASS	
		Ant2	5320	8.01	≤11	PASS	
	U-NII-2C	Ant1	5500	8.94	≤11	PASS	
		Ant2	5500	7.88	≤11	PASS	
		Ant1	5580	9.71	≤11	PASS	
		Ant2	5580	9.45	≤11	PASS	
		Ant1	5700	8.32	≤11	PASS	
		Ant2	5700	9.41	≤11	PASS	
		Ant1	5720	8.19	≤11	PASS	
		Ant2	5720	8.51	≤11	PASS	
	802.11n HT20 MIMO	U-NII-1	Ant1	5180	7.55	≤17	PASS
Ant2			5180	8.67	≤17	PASS	
total			5180	11.16	≤16.5	PASS	
Ant1			5200	7.22	≤17	PASS	
Ant2			5200	8.49	≤17	PASS	
total			5200	10.91	≤16.5	PASS	
Ant1			5240	8.39	≤17	PASS	
Ant2			5240	9.04	≤17	PASS	
total			5240	11.74	≤16.5	PASS	
Ant1			5260	5.24	≤11	PASS	
U-NII-2A		Ant2	5260	6.27	≤11	PASS	
		total	5260	8.80	≤10.54	PASS	
		Ant1	5280	6.98	≤11	PASS	
		Ant2	5280	7.33	≤11	PASS	
		total	5280	10.17	≤10.54	PASS	
		Ant1	5320	6.56	≤11	PASS	
		Ant2	5320	7.19	≤11	PASS	
		total	5320	9.90	≤10.54	PASS	
		U-NII-2C	Ant1	5500	6.49	≤11	PASS
			Ant2	5500	6.26	≤11	PASS
total			5500	9.39	≤10.08	PASS	
Ant1			5580	6.33	≤11	PASS	
Ant2			5580	6.8	≤11	PASS	
total			5580	9.58	≤10.08	PASS	
Ant1			5700	6.81	≤11	PASS	
Ant2			5700	6.25	≤11	PASS	
total			5700	9.55	≤10.08	PASS	
Ant1			5720	6.85	≤11	PASS	
Ant2		5720	6.36	≤11	PASS		
total		5720	9.62	≤10.08	PASS		

802.11n HT40 MIMO	U-NII-1	Ant1	5190	4.44	≤17	PASS
		Ant2	5190	5.65	≤17	PASS
		total	5190	8.10	≤16.5	PASS
		Ant1	5230	5.74	≤17	PASS
		Ant2	5230	7.64	≤17	PASS
		total	5230	9.80	≤16.5	PASS
	U-NII-2A	Ant1	5270	3.17	≤11	PASS
		Ant2	5270	4.47	≤11	PASS
		total	5270	6.88	≤10.54	PASS
		Ant1	5310	4.18	≤11	PASS
		Ant2	5310	4.77	≤11	PASS
		total	5310	7.50	≤10.54	PASS
	U-NII-2C	Ant1	5510	6.21	≤11	PASS
		Ant2	5510	6.22	≤11	PASS
		total	5510	9.23	≤10.08	PASS
		Ant1	5550	5.90	≤11	PASS
		Ant2	5550	6.02	≤11	PASS
		total	5550	8.97	≤10.08	PASS
Ant1		5670	6.15	≤11	PASS	
Ant2		5670	5.47	≤11	PASS	
total		5670	8.83	≤10.08	PASS	
Ant1		5710	5.44	≤11	PASS	
Ant2		5710	5.51	≤11	PASS	
total		5710	8.49	≤10.08	PASS	
802.11ac VHT20 MIMO	U-NII-1	Ant1	5180	7.64	≤17	PASS
		Ant2	5180	8.72	≤17	PASS
		total	5180	11.22	≤16.5	PASS
		Ant1	5200	4.72	≤17	PASS
		Ant2	5200	5.89	≤17	PASS
		total	5200	8.35	≤16.5	PASS
		Ant1	5240	2.61	≤17	PASS
		Ant2	5240	4.43	≤17	PASS
		total	5240	6.62	≤16.5	PASS
	U-NII-2A	Ant1	5260	4.58	≤11	PASS
		Ant2	5260	5.43	≤11	PASS
		total	5260	8.04	≤10.54	PASS
		Ant1	5280	5.41	≤11	PASS
		Ant2	5280	6.17	≤11	PASS
		total	5280	8.82	≤10.54	PASS
		Ant1	5320	3.26	≤11	PASS
		Ant2	5320	3.78	≤11	PASS
		total	5320	6.54	≤10.54	PASS
	U-NII-2C	Ant1	5500	2.14	≤11	PASS
		Ant2	5500	2.45	≤11	PASS
		total	5500	5.31	≤10.08	PASS
		Ant1	5580	6.34	≤11	PASS
		Ant2	5580	6.87	≤11	PASS
		total	5580	9.62	≤10.08	PASS
		Ant1	5700	6.33	≤11	PASS
		Ant2	5700	6.27	≤11	PASS
		total	5700	9.31	≤10.08	PASS
		Ant1	5720	6.81	≤11	PASS
		Ant2	5720	6.34	≤11	PASS
		total	5720	9.59	≤10.08	PASS

802.11ac VHT40 MIMO	U-NII-1	Ant1	5190	2.57	≤17	PASS
		Ant2	5190	4.22	≤17	PASS
		total	5190	6.48	≤16.5	PASS
		Ant1	5230	5.81	≤17	PASS
		Ant2	5230	7.77	≤17	PASS
		total	5230	9.91	≤16.5	PASS
	U-NII-2A	Ant1	5270	2.96	≤11	PASS
		Ant2	5270	4.71	≤11	PASS
		total	5270	6.93	≤10.54	PASS
		Ant1	5310	4.27	≤11	PASS
		Ant2	5310	4.13	≤11	PASS
		total	5310	7.21	≤10.54	PASS
	U-NII-2C	Ant1	5510	6.23	≤11	PASS
		Ant2	5510	6.29	≤11	PASS
		total	5510	9.27	≤10.08	PASS
		Ant1	5550	5.13	≤11	PASS
		Ant2	5550	5.27	≤11	PASS
		total	5550	8.21	≤10.08	PASS
Ant1		5670	5.53	≤11	PASS	
Ant2		5670	5.53	≤11	PASS	
total		5670	8.54	≤10.08	PASS	
Ant1		5710	5.15	≤11	PASS	
Ant2		5710	5.03	≤11	PASS	
total		5710	8.10	≤10.08	PASS	
802.11ac VHT80 MIMO	U-NII-1	Ant1	5210	1.47	≤17	PASS
		Ant2	5210	2.91	≤17	PASS
		total	5210	5.26	≤16.5	PASS
	U-NII-2A	Ant1	5290	1.31	≤11	PASS
		Ant2	5290	1.39	≤11	PASS
		total	5290	4.36	≤10.54	PASS
	U-NII-2C	Ant1	5530	2.89	≤11	PASS
		Ant2	5530	2.90	≤11	PASS
		total	5530	5.91	≤10.08	PASS
		Ant1	5610	2.60	≤11	PASS
		Ant2	5610	2.76	≤11	PASS
		total	5610	5.69	≤10.08	PASS
		Ant1	5690	2.11	≤11	PASS
		Ant2	5690	2.00	≤11	PASS
		total	5690	5.07	≤10.08	PASS

----- The following blanks -----

802.11ax HE20 MIMO	U-NII-1	Ant1	5180	6.37	≤17	PASS
		Ant2	5180	7.94	≤17	PASS
		total	5180	10.24	≤16.5	PASS
		Ant1	5200	7.22	≤17	PASS
		Ant2	5200	9.01	≤17	PASS
		total	5200	11.22	≤16.5	PASS
		Ant1	5240	6.72	≤17	PASS
		Ant2	5240	8.40	≤17	PASS
		total	5240	10.65	≤16.5	PASS
	U-NII-2A	Ant1	5260	4.30	≤11	PASS
		Ant2	5260	6.09	≤11	PASS
		total	5260	8.30	≤10.54	PASS
		Ant1	5280	6.55	≤11	PASS
		Ant2	5280	7.37	≤11	PASS
		total	5280	9.99	≤10.54	PASS
		Ant1	5320	6.15	≤11	PASS
		Ant2	5320	6.53	≤11	PASS
		total	5320	9.35	≤10.54	PASS
	U-NII-2C	Ant1	5500	6.11	≤11	PASS
		Ant2	5500	6.82	≤11	PASS
		total	5500	9.49	≤10.08	PASS
		Ant1	5580	6.15	≤11	PASS
		Ant2	5580	6.84	≤11	PASS
		total	5580	9.52	≤10.08	PASS
Ant1		5700	5.42	≤11	PASS	
Ant2		5700	6.23	≤11	PASS	
total		5700	8.85	≤10.08	PASS	
Ant1		5720	6.15	≤11	PASS	
Ant2		5720	6.56	≤11	PASS	
total		5720	9.37	≤10.08	PASS	
Ant1		5720	4.97	≤11	PASS	
Ant2		5720	5.37	≤11	PASS	
total		5720	8.18	≤10.08	PASS	
802.11ax HE40 MIMO		U-NII-1	Ant1	5190	2.36	≤17
	Ant2		5190	4.02	≤17	PASS
	total		5190	6.28	≤16.5	PASS
	Ant1		5230	0.85	≤17	PASS
	Ant2		5230	3.28	≤17	PASS
	total		5230	5.24	≤16.5	PASS
	U-NII-2A	Ant1	5270	1.18	≤11	PASS
		Ant2	5270	2.49	≤11	PASS
		total	5270	4.89	≤10.54	PASS
		Ant1	5310	6.26	≤11	PASS
		Ant2	5310	6.96	≤11	PASS
		total	5310	9.63	≤10.54	PASS
	U-NII-2C	Ant1	5510	4.46	≤11	PASS
		Ant2	5510	4.44	≤11	PASS
		total	5510	7.46	≤10.08	PASS
		Ant1	5550	5.23	≤11	PASS
		Ant2	5550	5.63	≤11	PASS
		total	5550	8.44	≤10.08	PASS
		Ant1	5670	4.07	≤11	PASS
		Ant2	5670	3.98	≤11	PASS
		total	5670	7.04	≤10.08	PASS
		Ant1	5710	4.87	≤11	PASS
		Ant2	5710	5.10	≤11	PASS
		total	5710	8.00	≤10.08	PASS

802.11ax HE80 MIMO	U-NII-1	Ant1	5210	-1.48	≤17	PASS
		Ant2	5210	0.07	≤17	PASS
		total	5210	2.37	≤16.5	PASS
	U-NII-2A	Ant1	5290	0.01	≤11	PASS
		Ant2	5290	0.21	≤11	PASS
		total	5290	3.12	≤10.54	PASS
	U-NII-2C	Ant1	5530	2.57	≤11	PASS
		Ant2	5530	2.18	≤11	PASS
		total	5530	5.39	≤10.08	PASS
		Ant1	5610	3.33	≤11	PASS
		Ant2	5610	3.20	≤11	PASS
		total	5610	6.28	≤10.08	PASS
		Ant1	5690	2.84	≤11	PASS
		Ant2	5690	2.48	≤11	PASS
		total	5690	5.67	≤10.08	PASS

U-NII-1 :

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
 So Directional gain = $10\log[(10^{2.84/20} + 10^{4.09/20})^2/2]$ dBi, that is Directional gain (dBi)= 6.5
 Note2: Antenna gain is greater than 6, Power Spectral Density Limit=17-(6.5-6)=16.5dBm
 Note3:The Duty Cycle Factor is compensated in the graph.

U-NII-2A :

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
 So Directional gain = $10\log[(10^{3.07/20} + 10^{3.81/20})^2/2]$ dBi, that is Directional gain (dBi)= 6.46
 Note2: Antenna gain is greater than 6, Power Spectral Density Limit=11-(6.46-6)=10.54dBm
 Note3:The Duty Cycle Factor is compensated in the graph.

U-NII-2C :

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,
 So Directional gain = $10\log[(10^{3.91/20} + 10^{3.90/20})^2/2]$ dBi, that is Directional gain (dBi)= 6.92
 Note2: Antenna gain is greater than 6, Power Spectral Density Limit=11-(6.92-6)=10.08dBm
 Note3:The Duty Cycle Factor is compensated in the graph.

----- The following blanks -----

Test Mode	Antenna	Band	Frequency [MHz]	Result+ Duty factor [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
802.11a	U-NII-3	Ant1	5720	4.11	≤30	PASS
		Ant2	5720	6.66	≤30	PASS
		Ant1	5745	6.89	≤30	PASS
		Ant2	5745	9.20	≤30	PASS
		Ant1	5785	6.00	≤30	PASS
		Ant2	5785	8.60	≤30	PASS
		Ant1	5825	6.11	≤30	PASS
802.11n HT20 MIMO	U-NII-3	Ant1	5720	5.66	≤30	PASS
		Ant2	5720	2.21	≤30	PASS
		total	5720	7.28	≤29.15	PASS
		Ant1	5745	5.00	≤30	PASS
		Ant2	5745	6.41	≤30	PASS
		total	5745	8.77	≤29.15	PASS
		Ant1	5785	4.59	≤30	PASS
		Ant2	5785	5.65	≤30	PASS
		total	5785	8.16	≤29.15	PASS
		Ant1	5825	4.36	≤30	PASS
		Ant2	5825	5.64	≤30	PASS
		total	5825	8.06	≤29.15	PASS
802.11n HT40 MIMO	U-NII-3	Ant1	5710	1.95	≤30	PASS
		Ant2	5710	-2.19	≤30	PASS
		total	5710	3.37	≤29.15	PASS
		Ant1	5755	3.29	≤30	PASS
		Ant2	5755	3.96	≤30	PASS
		total	5755	6.65	≤29.15	PASS
		Ant1	5795	2.52	≤30	PASS
		Ant2	5795	3.71	≤30	PASS
total	5795	6.17	≤29.15	PASS		
802.11ac VHT20 MIMO	U-NII-3	Ant1	5720	5.67	≤30	PASS
		Ant2	5720	5.14	≤30	PASS
		total	5720	8.42	≤29.15	PASS
		Ant1	5745	4.91	≤30	PASS
		Ant2	5745	6.15	≤30	PASS
		total	5745	8.58	≤29.15	PASS
		Ant1	5785	4.10	≤30	PASS
		Ant2	5785	5.60	≤30	PASS
		total	5785	7.92	≤29.15	PASS
		Ant1	5825	4.58	≤30	PASS
		Ant2	5825	5.66	≤30	PASS
		total	5825	8.16	≤29.15	PASS
802.11ac VHT40 MIMO	U-NII-3	Ant1	5710	1.28	≤30	PASS
		Ant2	5710	0.87	≤30	PASS
		total	5710	4.09	≤29.15	PASS
		Ant1	5755	4.10	≤30	PASS
		Ant2	5755	5.12	≤30	PASS
		total	5755	7.65	≤29.15	PASS
		Ant1	5795	2.98	≤30	PASS
		Ant2	5795	4.19	≤30	PASS
total	5795	6.64	≤29.15	PASS		
802.11ac VHT80 MIMO	U-NII-3	Ant1	5690	-3.62	≤30	PASS
		Ant2	5690	-2.7	≤30	PASS
		total	5690	-0.13	≤29.15	PASS
		Ant1	5775	-0.34	≤30	PASS
		Ant2	5775	0.60	≤30	PASS
		total	5775	3.17	≤29.15	PASS

802.11ax HE20 MIMO	U-NII-3	Ant1	5720	4.97	≤30	PASS		
		Ant2	5720	5.37	≤30	PASS		
		total	5720	8.18	≤29.15	PASS		
		Ant1	5745	4.63	≤30	PASS		
		Ant2	5745	6.04	≤30	PASS		
		total	5745	8.40	≤29.15	PASS		
		Ant1	5785	4.05	≤30	PASS		
		Ant2	5785	5.62	≤30	PASS		
		total	5785	7.92	≤29.15	PASS		
		Ant1	5825	4.87	≤30	PASS		
		Ant2	5825	5.72	≤30	PASS		
		total	5825	8.33	≤29.15	PASS		
802.11ax HE40 MIMO	U-NII-3	Ant1	5710	2.18	≤30	PASS		
		Ant2	5710	-1.29	≤30	PASS		
		total	5710	3.79	≤29.15	PASS		
		Ant1	5755	3.09	≤30	PASS		
		Ant2	5755	4.17	≤30	PASS		
		total	5755	6.67	≤29.15	PASS		
		Ant1	5795	2.54	≤30	PASS		
		Ant2	5795	3.51	≤30	PASS		
		total	5795	6.06	≤29.15	PASS		
		802.11ax HE80 MIMO	U-NII-3	Ant1	5690	-3.72	≤30	PASS
				Ant2	5690	-2.58	≤30	PASS
				total	5690	-0.10	≤29.15	PASS
Ant1	5775			-0.57	≤30	PASS		
Ant2	5775			0.48	≤30	PASS		
total	5775			3.00	≤29.15	PASS		

U-NII-3:

Note1: This EUT supports MIMO 2X2, any transmit signals are correlated with each other,

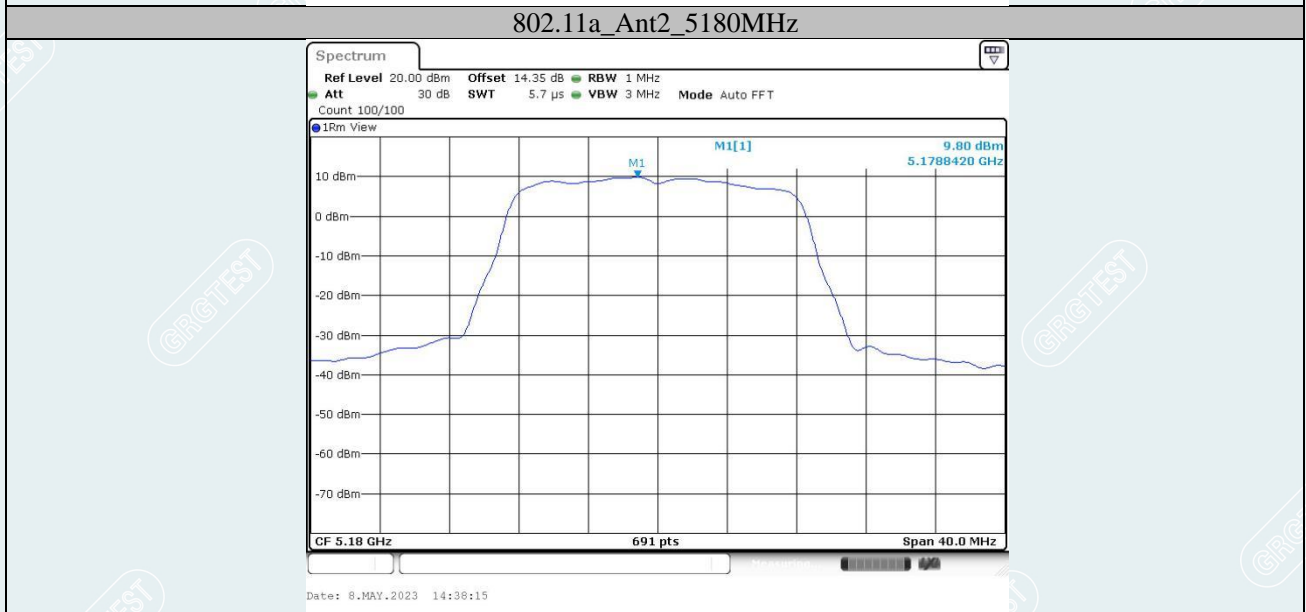
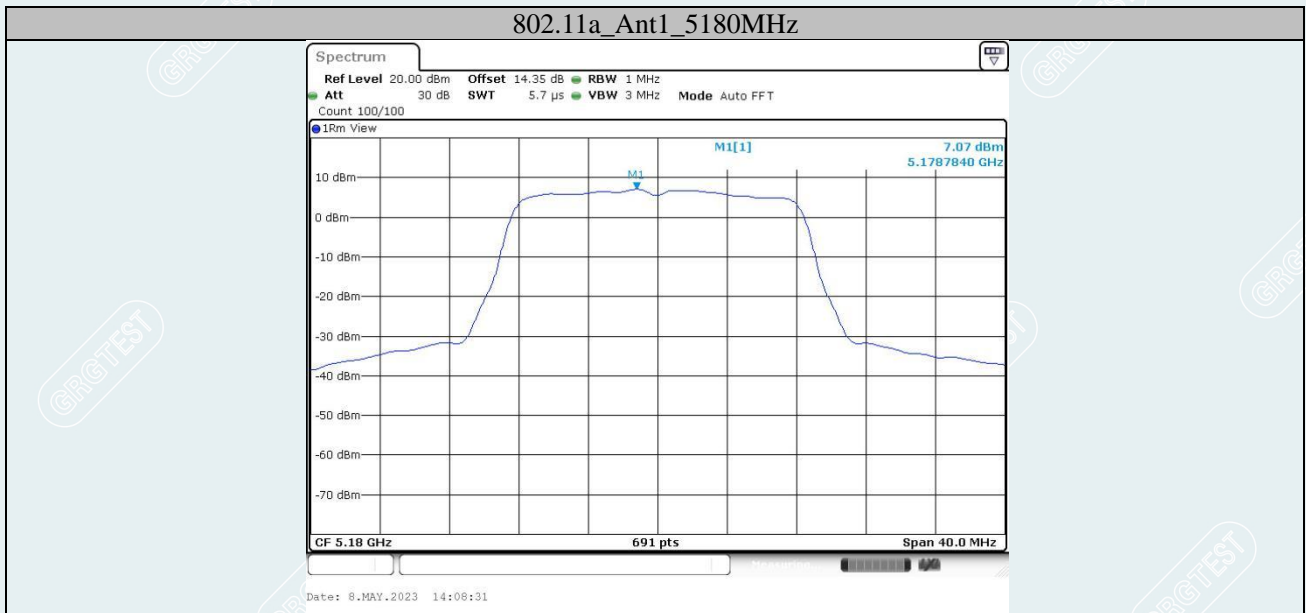
So Directional gain = $10\log[(10^{3.81/20} + 10^{3.86/20})^2/2]$ dBi, that is Directional gain (dBi) = 6.85

Note2: Antenna gain is greater than 6, Power Spectral Density Limit = $30 - (6.85 - 6) = 29.15$ dBm

Note3: The Duty Cycle Factor is compensated in the graph.

----- The following blanks -----

Test Graphs



802.11a_Ant1_5200MHz



802.11a_Ant2_5200MHz



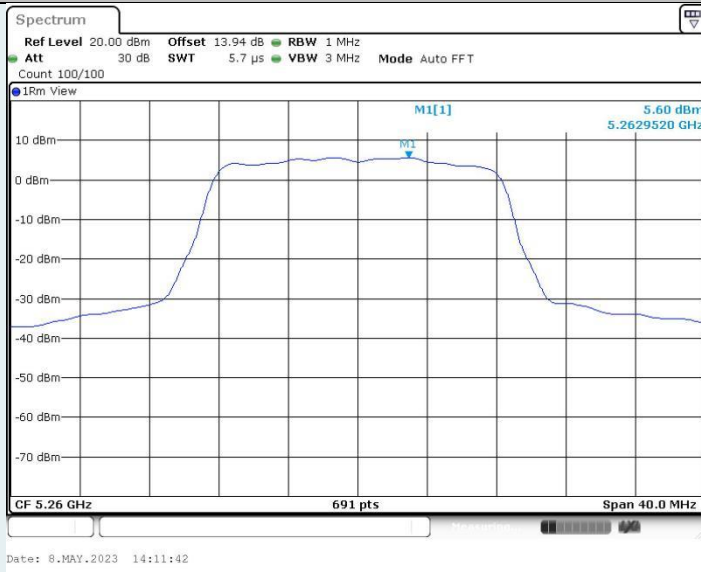
802.11a_Ant1_5240MHz



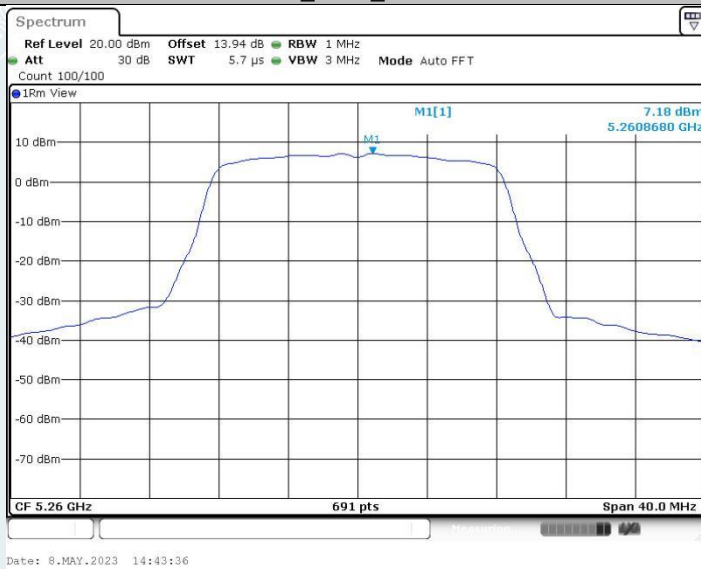
802.11a_Ant2_5240MHz



802.11a_Ant1_5260MHz



802.11a_Ant2_5260MHz



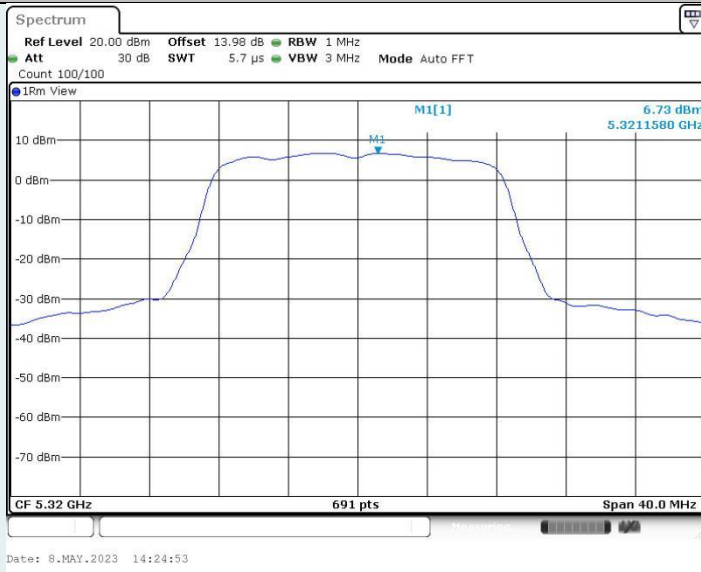
802.11a_Ant1_5280MHz



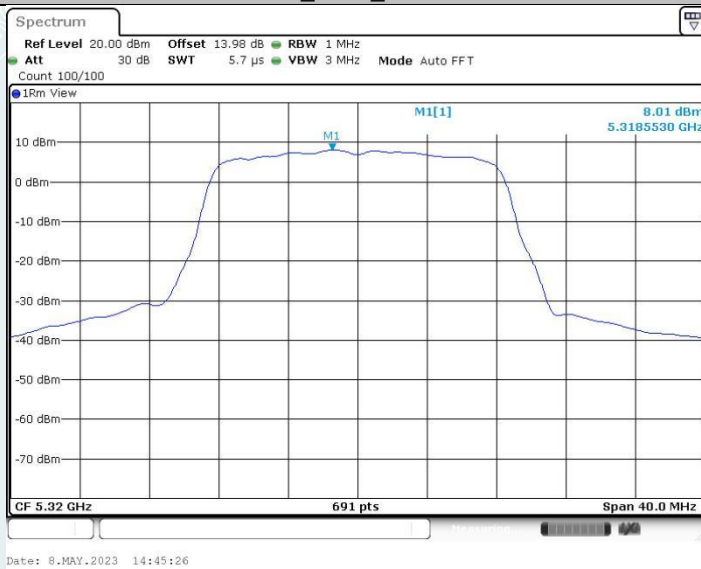
802.11a_Ant2_5280MHz



802.11a_Ant1_5320MHz



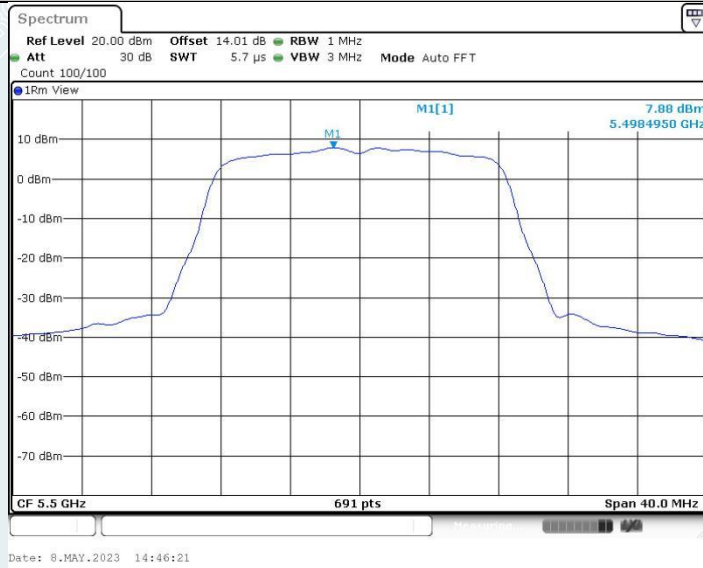
802.11a_Ant2_5320MHz



802.11a_Ant1_5500MHz



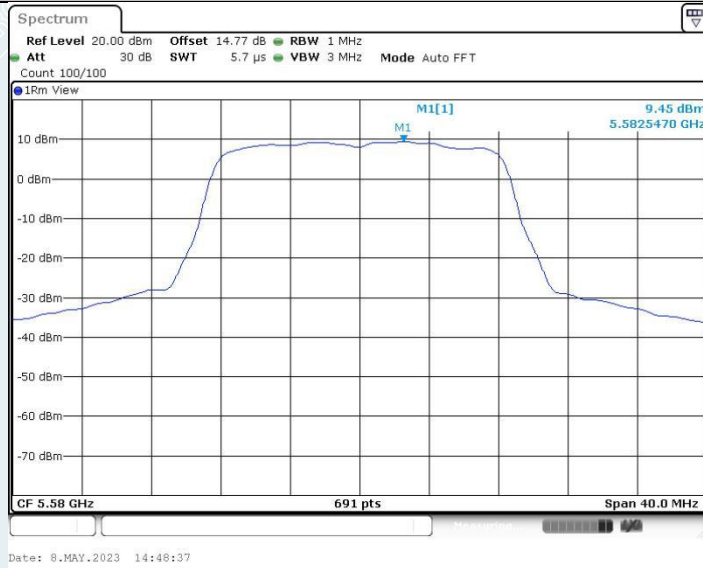
802.11a_Ant2_5500MHz



802.11a_Ant1_5580MHz



802.11a_Ant2_5580MHz



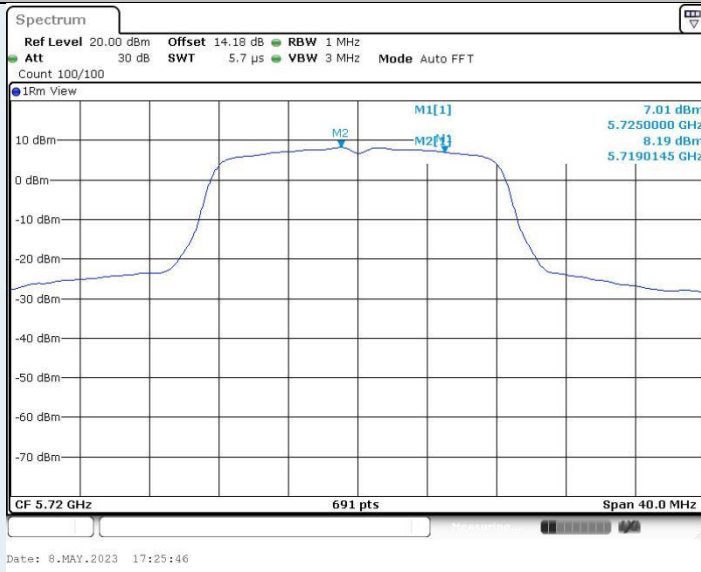
802.11a_Ant1_5700MHz



802.11a_Ant2_5700MHz



802.11a_Ant1_5720MHz_UNII-2C



802.11a_Ant2_5720MHz_UNII-2C



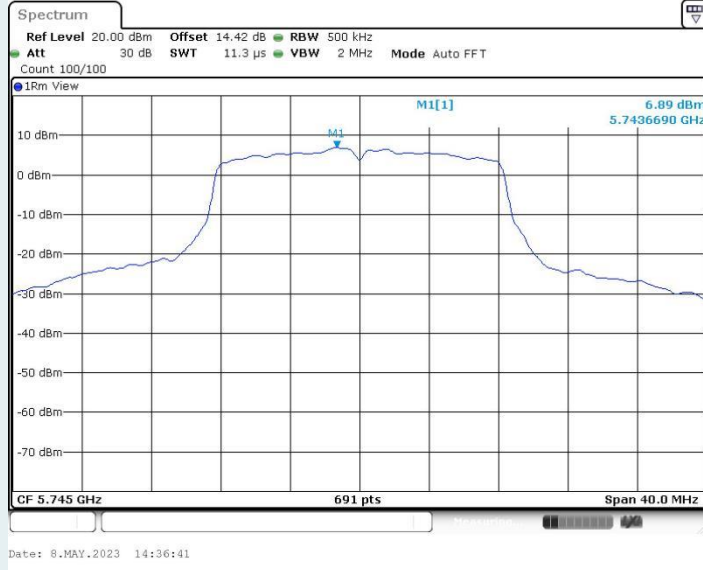
802.11a_Ant1_5720MHz_UNII-3



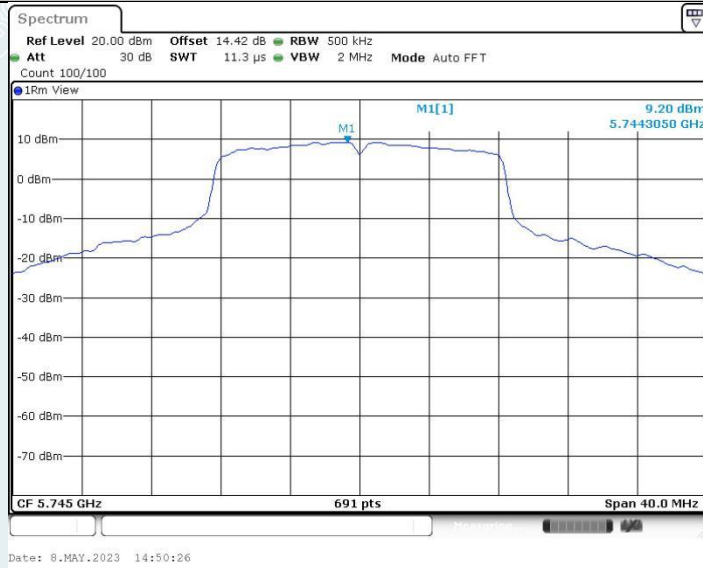
802.11a_Ant2_5720MHz_UNII-3



802.11a_Ant1_5745MHz



802.11a_Ant2_5745MHz



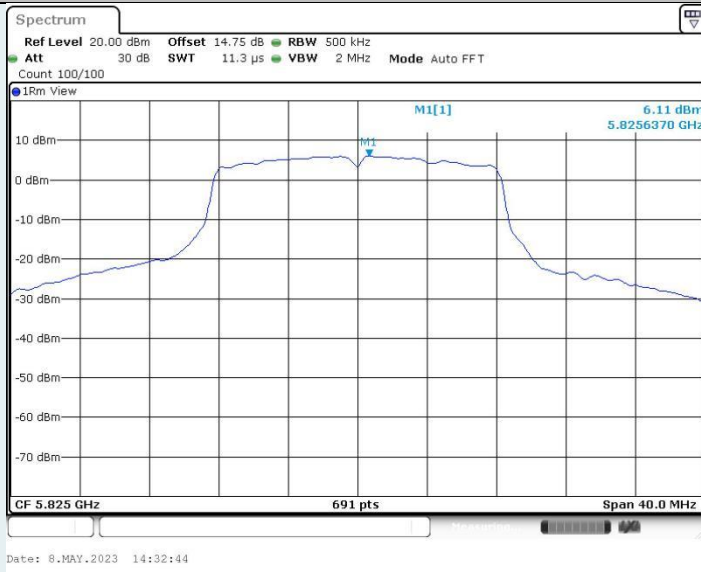
802.11a_Ant1_5785MHz



802.11a_Ant2_5785MHz



802.11a_Ant1_5825MHz



802.11a_Ant2_5825MHz

