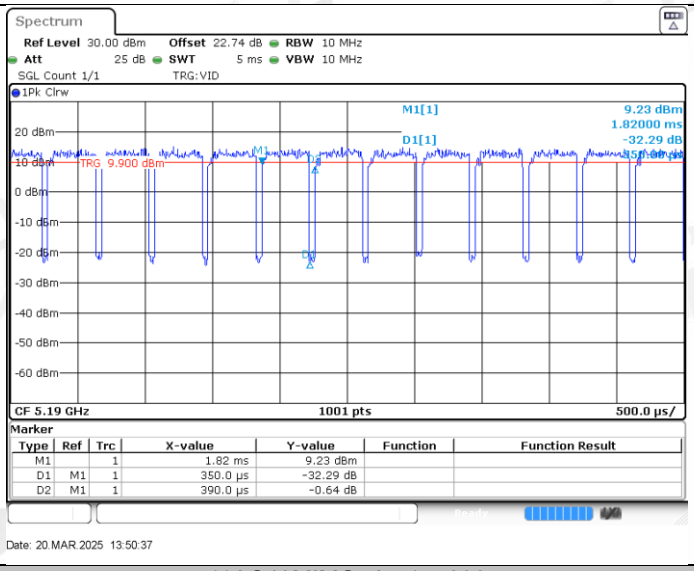
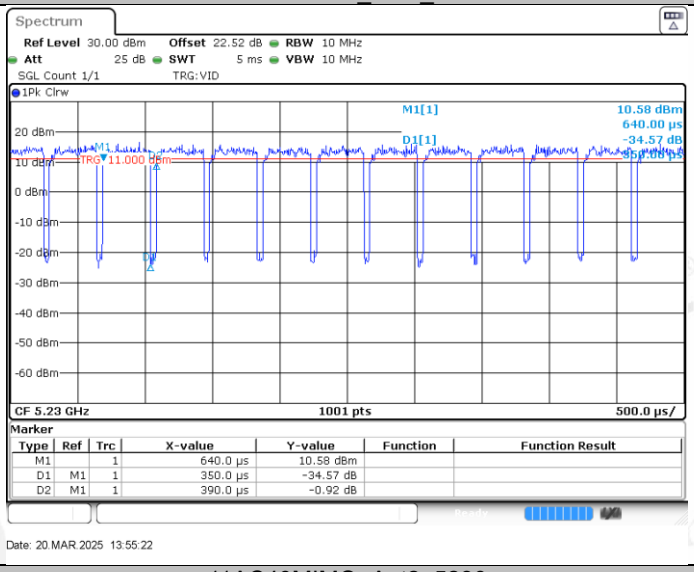
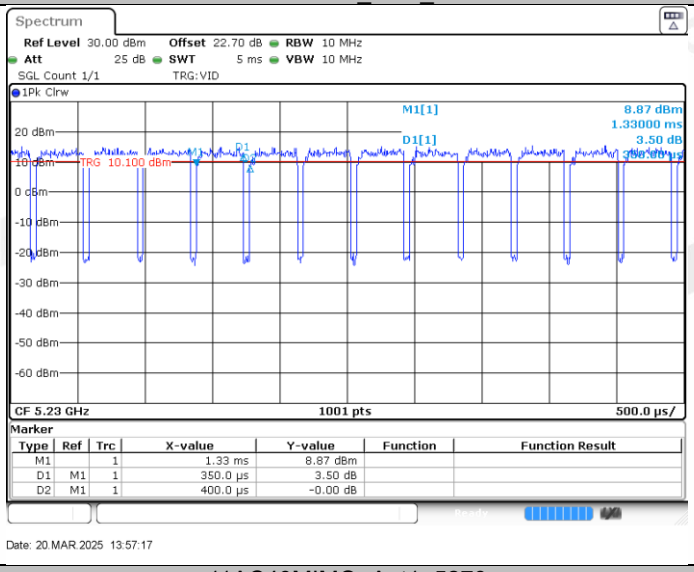


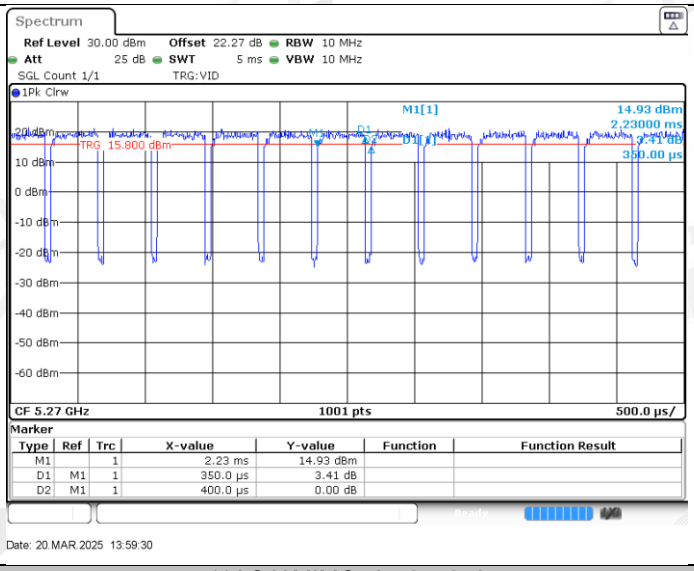
11AC40MIMO_Ant1_5230



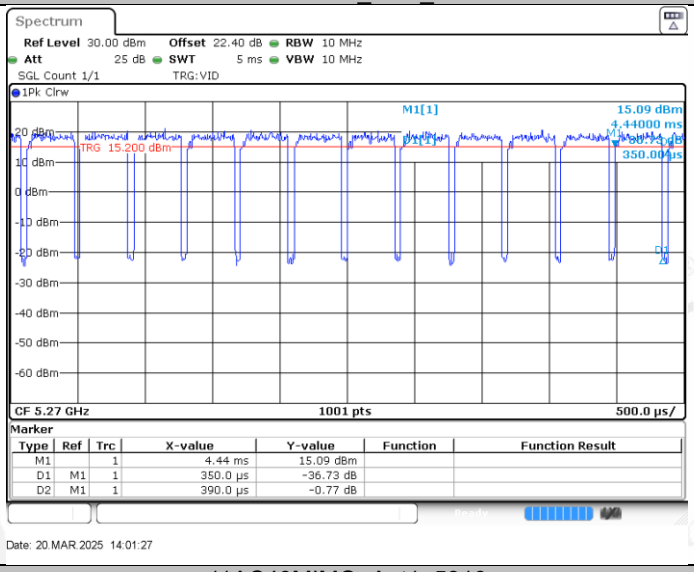
11AC40MIMO_Ant2_5230



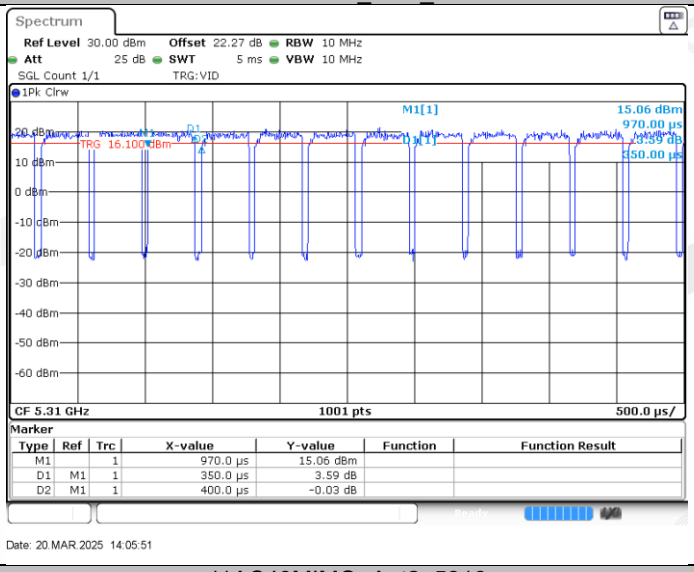
11AC40MIMO_Ant1_5270



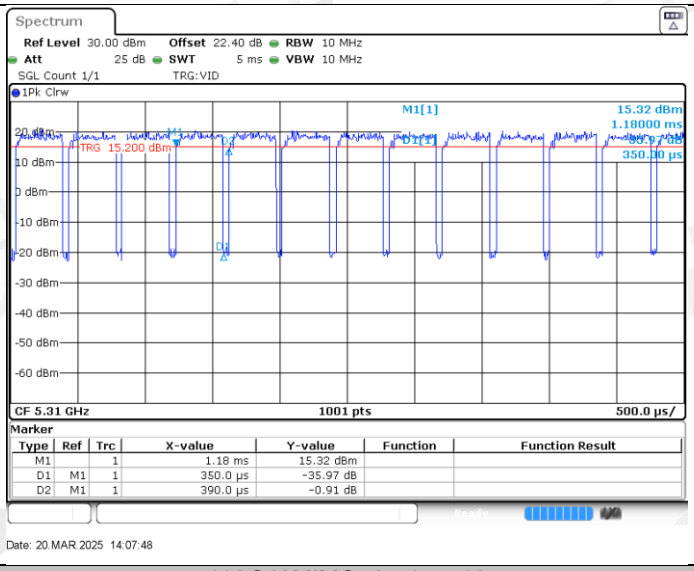
11AC40MIMO_Ant2_5270



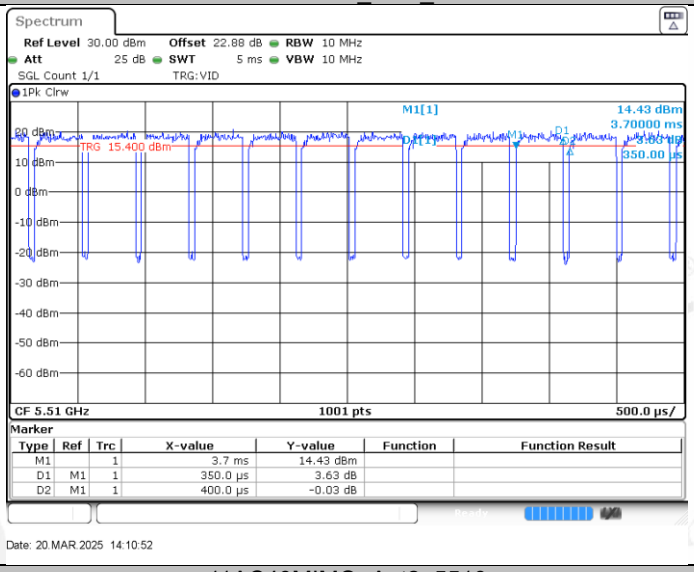
11AC40MIMO_Ant1_5310



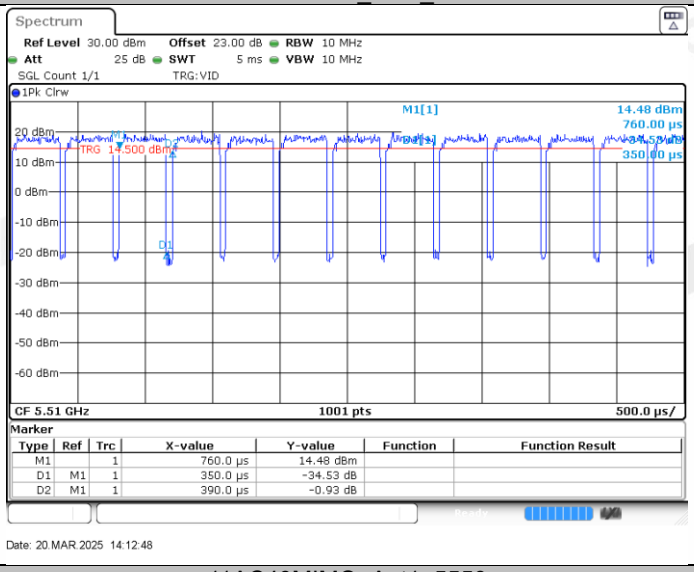
11AC40MIMO_Ant2_5310



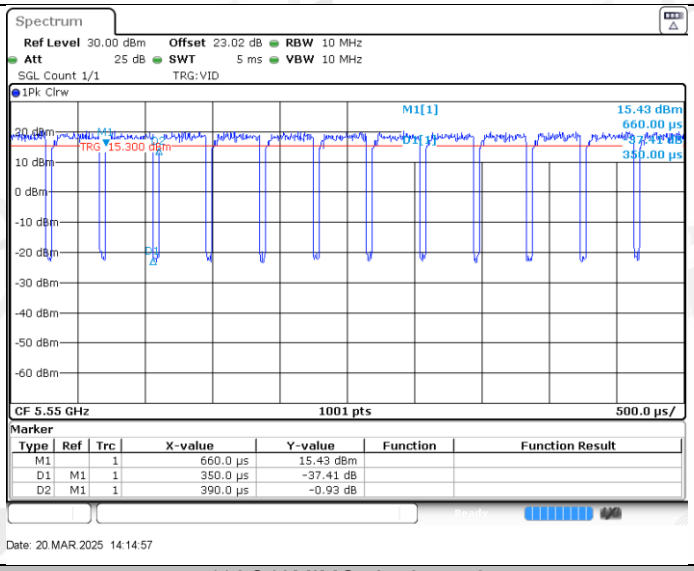
11AC40MIMO_Ant1_5510



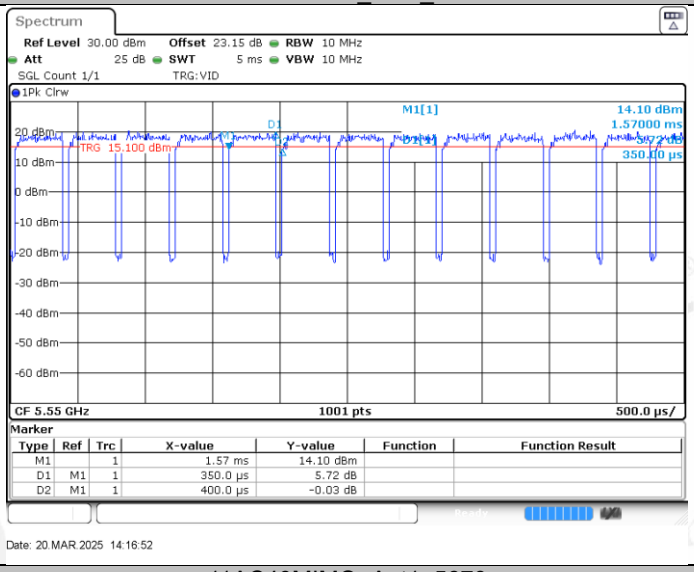
11AC40MIMO_Ant2_5510



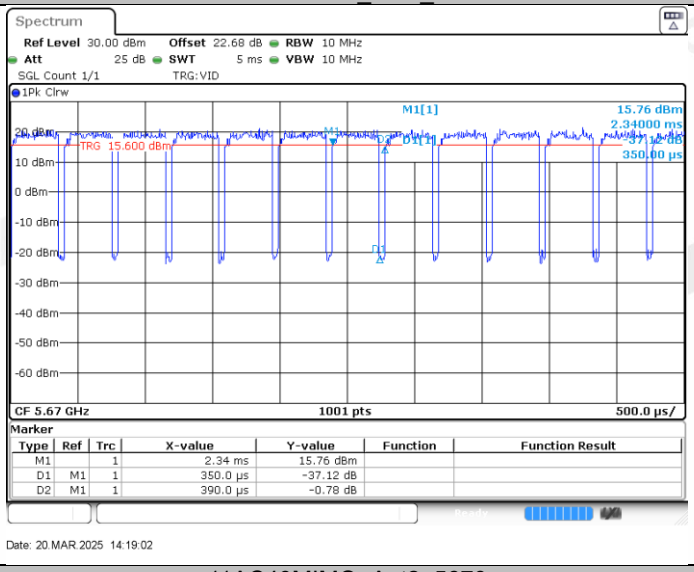
11AC40MIMO_Ant1_5550



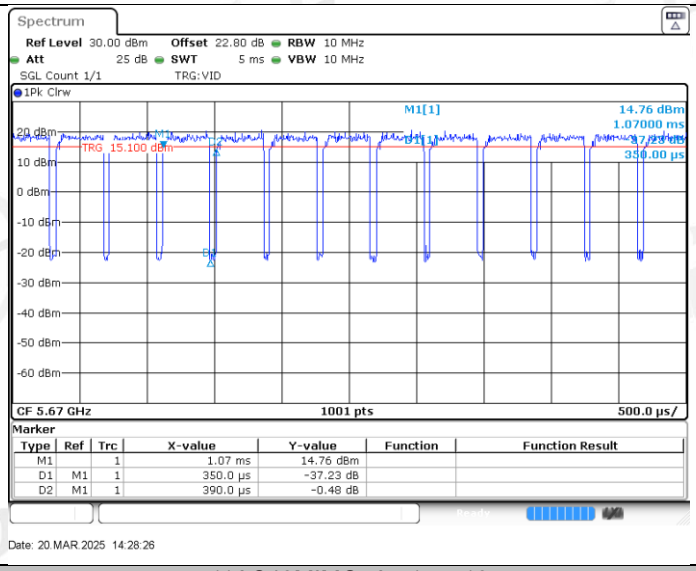
11AC40MIMO_Ant2_5550



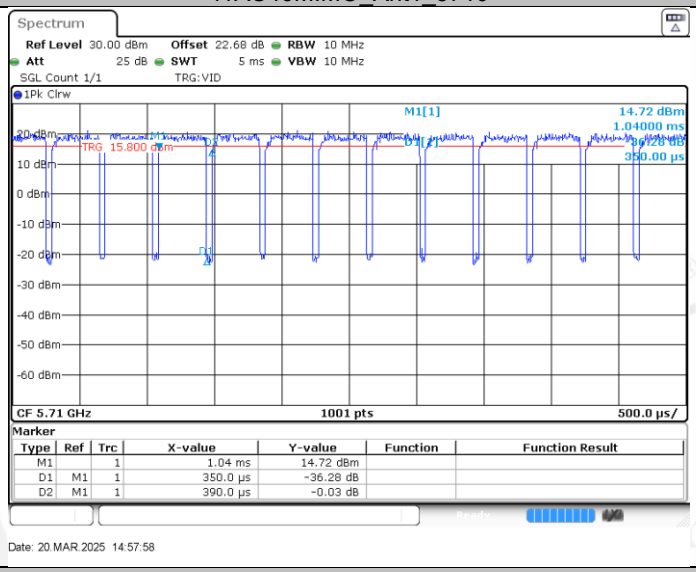
11AC40MIMO_Ant1_5670



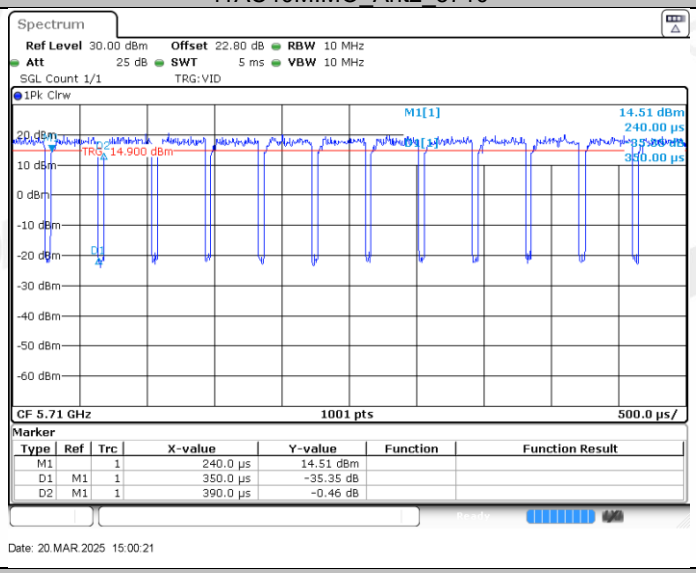
11AC40MIMO_Ant2_5670



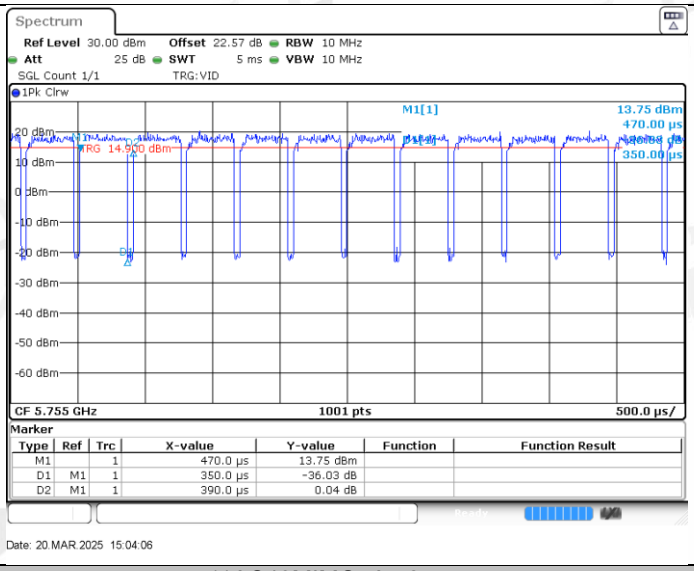
11AC40MIMO_Ant1_5710



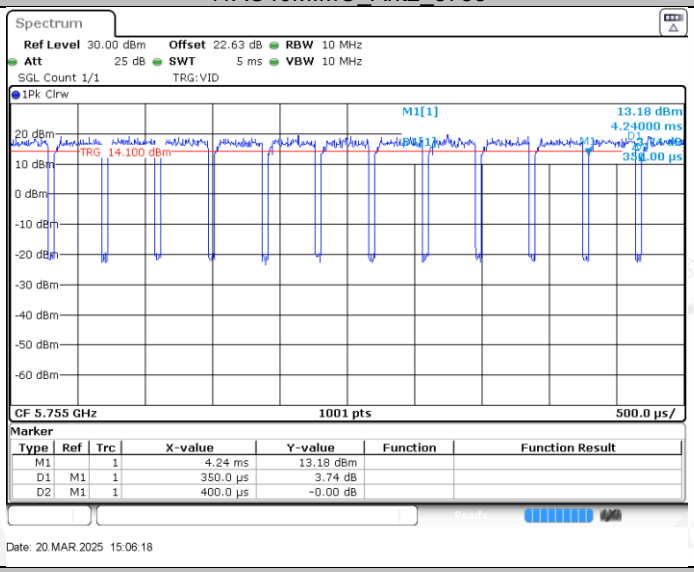
11AC40MIMO_Ant2_5710



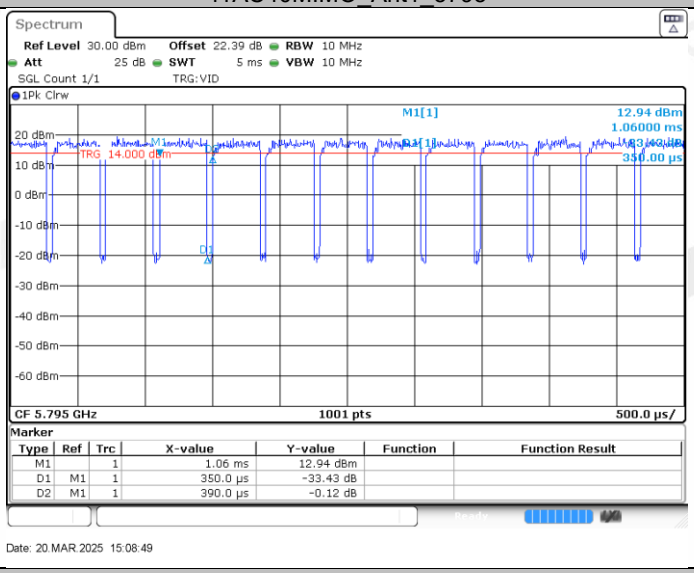
11AC40MIMO_Ant1_5755



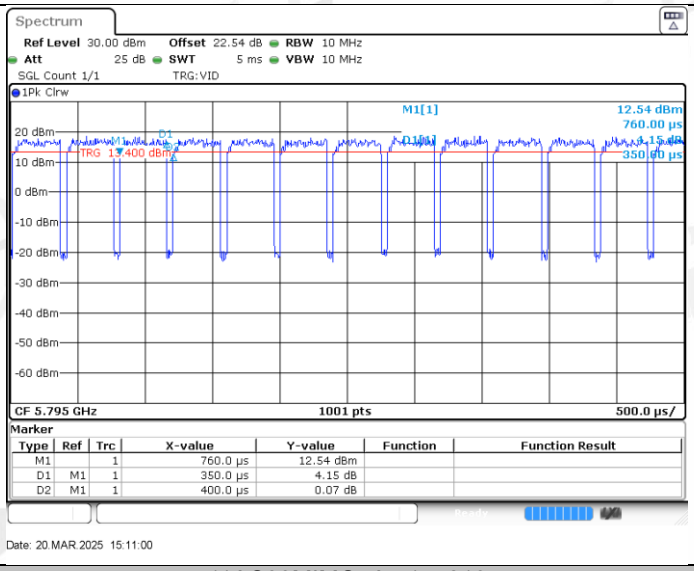
11AC40MIMO_Ant2_5755



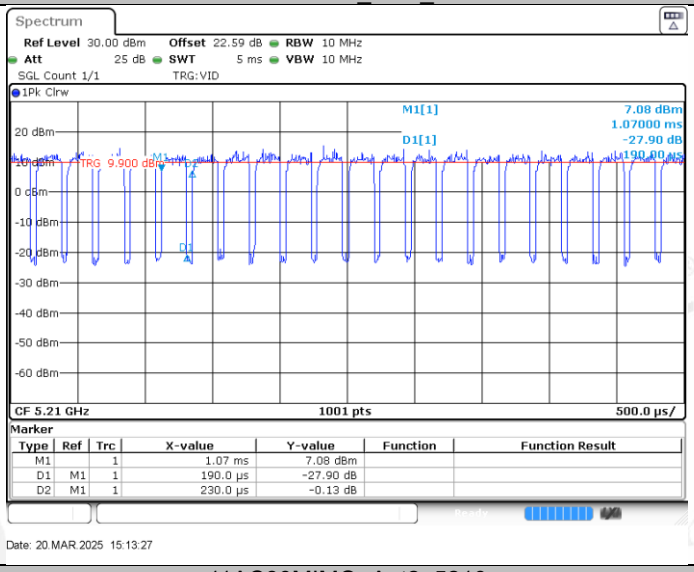
11AC40MIMO_Ant1_5795



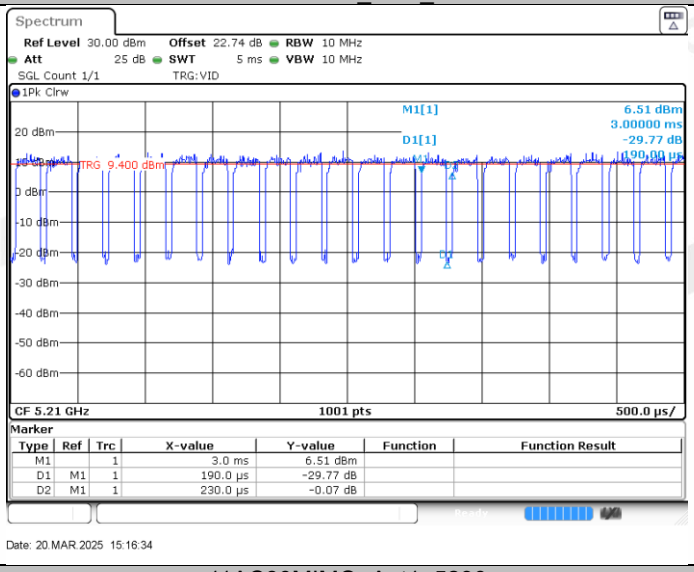
11AC40MIMO_Ant2_5795



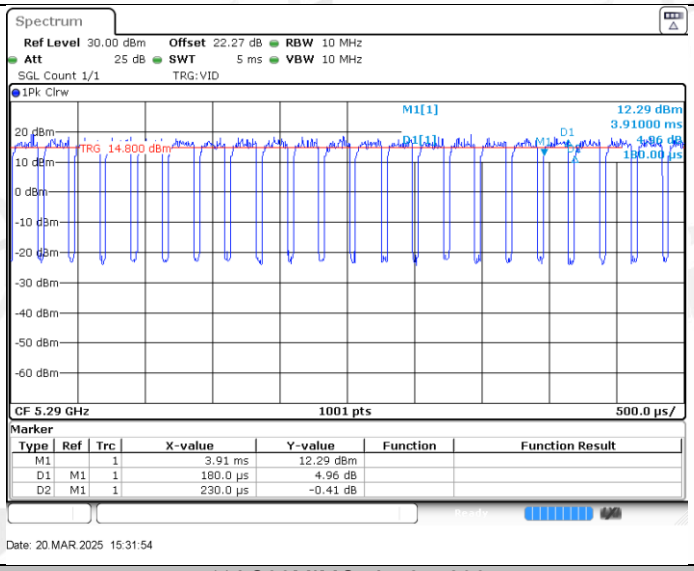
11AC80MIMO_Ant1_5210



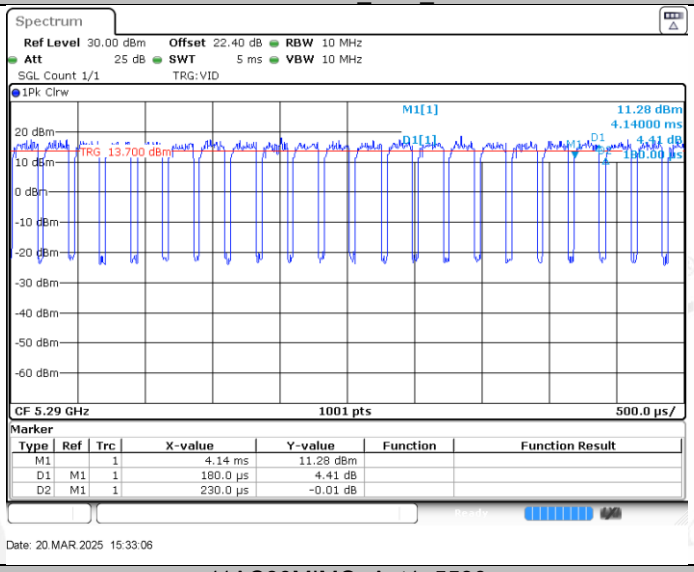
11AC80MIMO_Ant2_5210



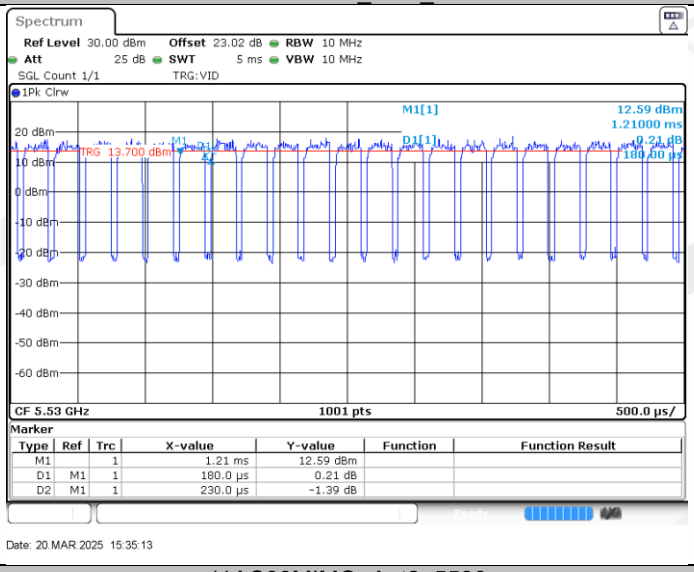
11AC80MIMO_Ant1_5290



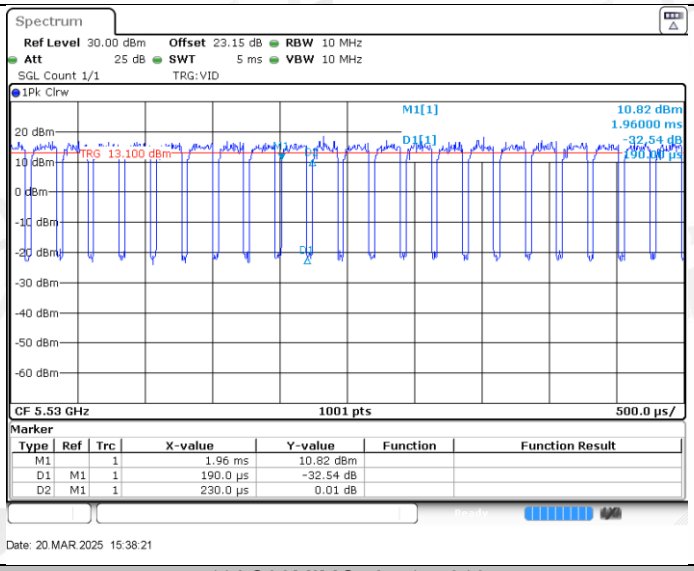
11AC80MIMO_Ant2_5290



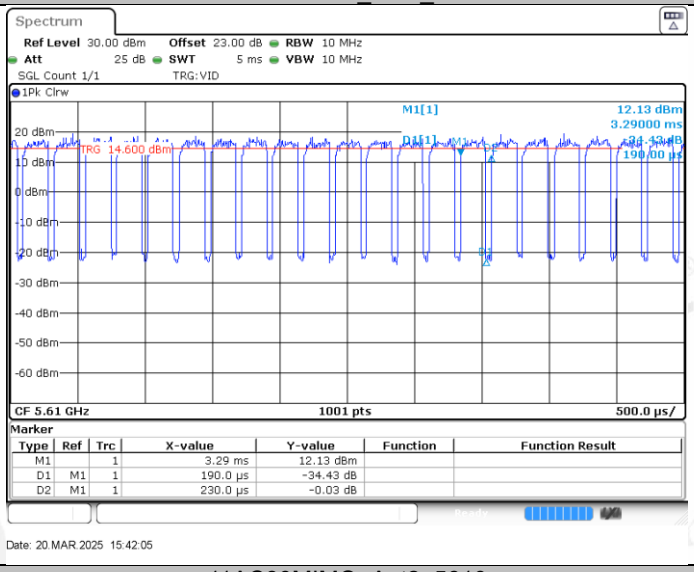
11AC80MIMO_Ant1_5530



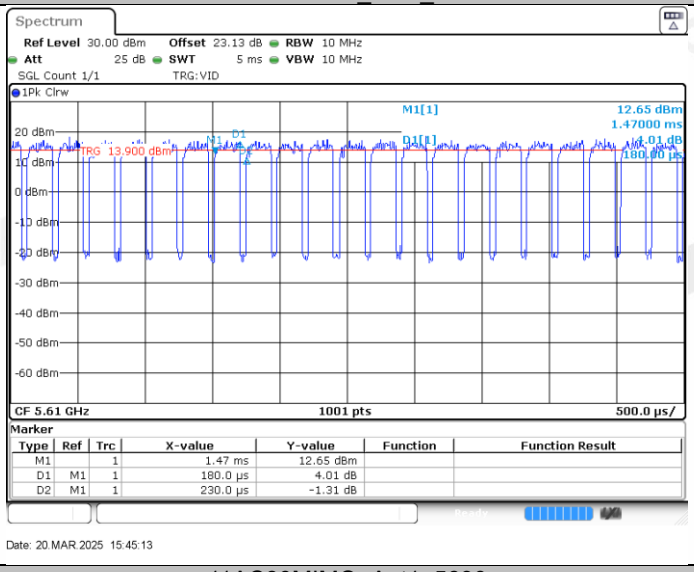
11AC80MIMO_Ant2_5530



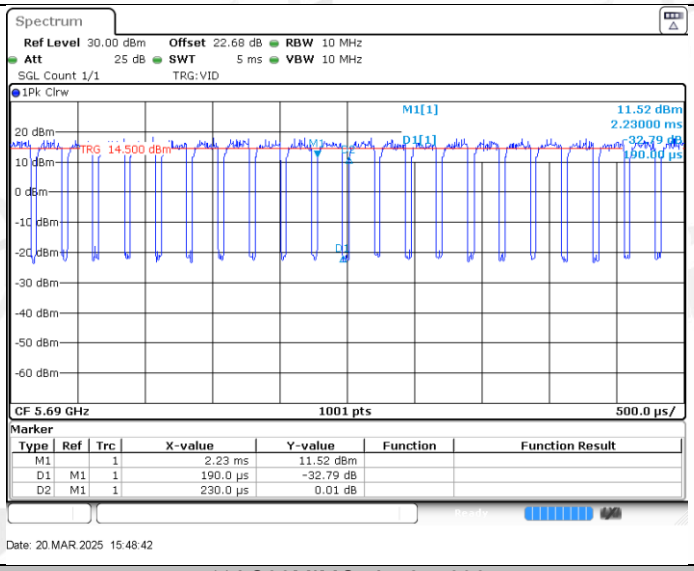
11AC80MIMO_Ant1_5610



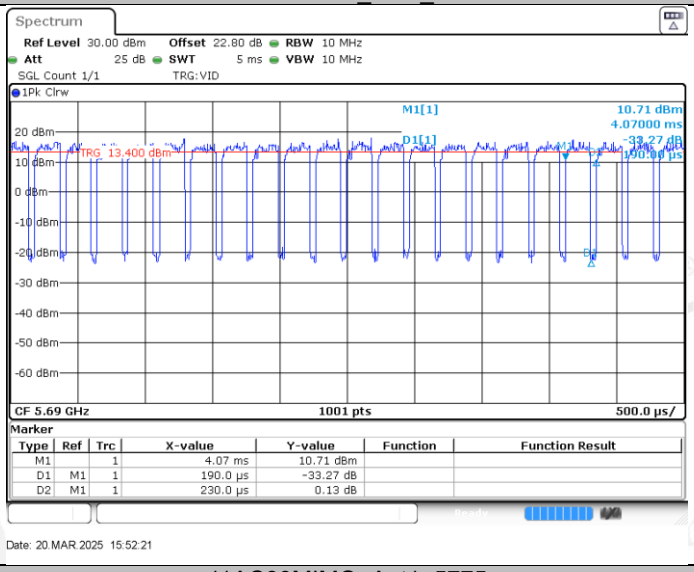
11AC80MIMO_Ant2_5610



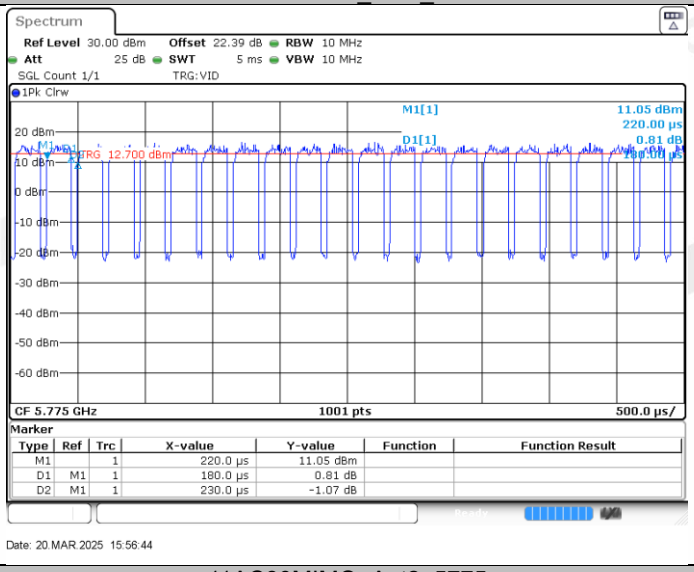
11AC80MIMO_Ant1_5690



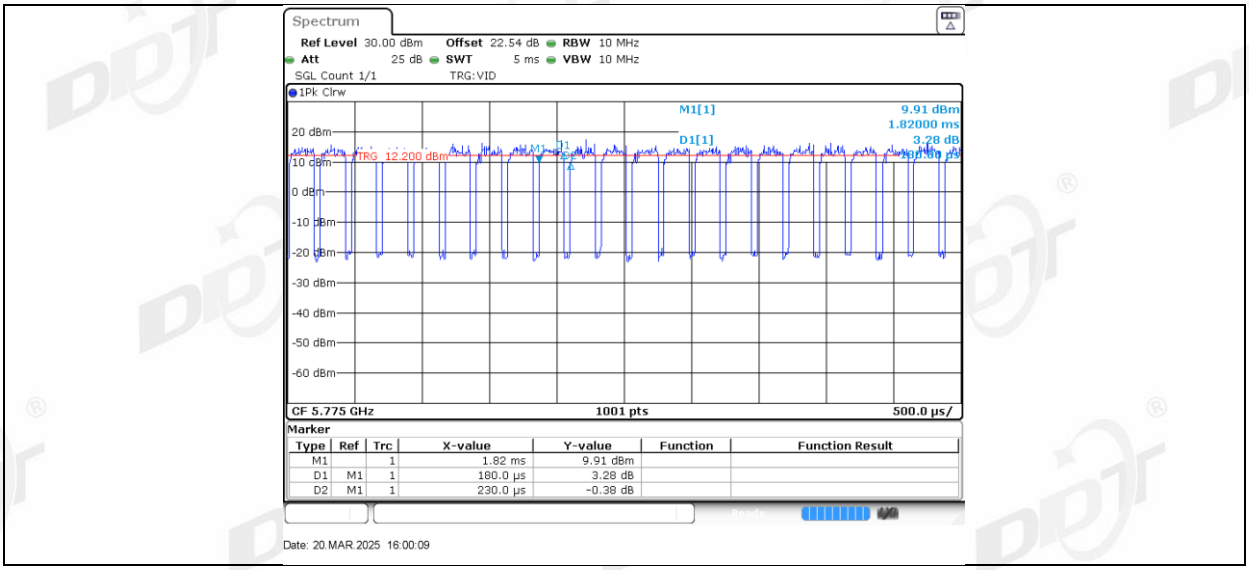
11AC80MIMO_Ant2_5690



11AC80MIMO_Ant1_5775

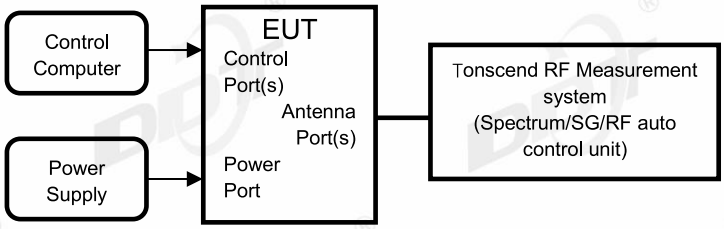


11AC80MIMO_Ant2_5775


Spectrum
Ref Level 30.00 dBm Offset 22.54 dB RBW 10 MHz
Att 25 dB SWT 5 ms VBW 10 MHz
SGL Count 1/1 TRG:VID
1Pk Clrw
M1[1] 9.91 dBm
1.82000 ms
D1[1] 3.28 dB
180.0 µs
TRG 12.200 dBm
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.775 GHz
1001 pts
500.0 µs/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 1.82 ms 9.91 dBm
D1 M1 1 180.0 µs 3.28 dB
D2 M1 1 230.0 µs -0.38 dB
Date: 20.MAR.2025 16:00:09

8. Maximum Output Power

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	For FCC: outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points1 W(30 dBm) client devices: 250 mW (24 dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23 dBm) or 10 + 10 $\log_{10}$ B	
	For FCC: 250 mW (24 dBm) or 11 + 10 $\log_{10}$ B	5250-5350
	For RSS: For conducted output power: 250 mW (24 dBm) or 11 + 10 $\log_{10}$ B	
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or 17 + 10 $\log_{10}$ B	
	For FCC: 250 mW (24 dBm) or 11 + 10 $\log_{10}$ B	For FCC:5470 - 5725 For IC:5470 - 5600 5650 - 5725
	For RSS: For conducted output power: 250 mW (24 dBm) or 11 + 10 $\log_{10}$ B	
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or 17 + 10 $\log_{10}$ B	
	1 Watt (30 dBm)	5725-5850
Note 1：For FCC: B=26 bandwidth; For ISED: B=99% bandwidth. Note 2：For 802.11n, 802.11ac, the EUT incorporates a MIMO function. For 5150-5250MHz, The Antenna 2 directional gain is 7.02 dBi. The Output Power limit is the above limits-(7.02-6) dB. For 5250-5350MHz, The Antenna 2 directional gain is 6.84 dBi. The Output Power limit is the above limits-(6.84-6) dB. For 5470-5725MHz, The Antenna 2 directional gain is 7.31 dBi. The Output Power limit is the above limits-(7.31-6) dB. For 5725-5850MHz, The Antenna 1 directional gain is 6.88 dBi. The Output Power limit is the above limits-(6.88-6) dB.		

8.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator
Measure the output power of each antenna port by power sensor.

8.4. Test result channel power

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.2-50.4℃,29.6-35.1%RH	Test Date:	2025.03.19-2025.03.29
Test Power Supply:	AC 120V	Sample Number:	S25011610-003

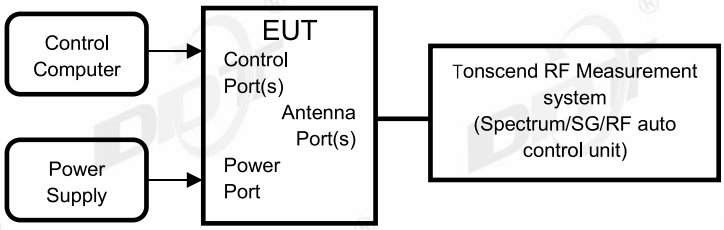
Test Mode	Antenna	Freq(MHz)	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	FCCLimit [dBm]	RSS Limit [dBm]	EIRP [dBm]	RSSEIRP Limit [dBm]	Verdict
11A	Ant1	5180	13.36	96.53	0.15	13.51	≤23.98	≤18.03	17.81	≤22.33	PASS
	Ant2	5180	12.65	96.53	0.15	12.80	≤22.96	≤15.32	19.82	≤22.34	PASS
	Ant1	5200	13.34	97.22	0.12	13.46	≤23.98	≤18.05	17.76	≤22.35	PASS
	Ant2	5200	12.76	97.22	0.12	12.88	≤22.96	≤15.33	19.90	≤22.35	PASS
	Ant1	5240	13.99	97.22	0.12	14.11	≤23.98	≤18.04	18.41	≤22.34	PASS
	Ant2	5240	13.35	96.53	0.15	13.50	≤22.96	≤15.34	20.52	≤22.36	PASS
	Ant1	5260	19.23	97.22	0.12	19.35	≤23.98	≤23.26	23.08	≤26.99	PASS
	Ant2	5260	18.71	97.20	0.12	18.83	≤23.14	≤20.15	25.67	≤26.99	PASS
	Ant1	5280	19.39	96.53	0.15	19.54	≤23.98	≤23.26	23.27	≤26.99	PASS
	Ant2	5280	18.71	97.20	0.12	18.83	≤23.14	≤20.15	25.67	≤26.99	PASS
	Ant1	5320	19.06	96.53	0.15	19.21	≤23.98	≤23.26	22.94	≤26.99	PASS
	Ant2	5320	18.57	97.20	0.12	18.69	≤23.14	≤20.15	25.53	≤26.99	PASS
	Ant1	5500	18.57	96.53	0.15	18.72	≤23.98	≤21.45	24.26	≤26.99	PASS
	Ant2	5500	17.91	97.22	0.12	18.03	≤22.67	≤19.68	25.34	≤26.99	PASS
	Ant1	5580	18.98	97.20	0.12	19.10	≤23.98	≤21.45	24.64	≤26.99	PASS
	Ant2	5580	18.47	96.53	0.15	18.62	≤22.67	≤19.68	25.93	≤26.99	PASS
	Ant1	5700	18.75	97.20	0.12	18.87	≤23.98	≤21.45	24.41	≤26.99	PASS
	Ant2	5700	18.37	96.53	0.15	18.52	≤22.67	≤19.68	25.83	≤26.99	PASS
	Ant1	5720	18.72	97.20	0.12	18.84	≤23.98	≤21.45	24.38	≤26.99	PASS
	Ant2	5720	18.00	97.22	0.12	18.12	≤22.67	≤19.68	25.43	≤26.99	PASS
	Ant1	5745	18.12	97.22	0.12	18.24	≤29.12	≤29.12	25.12	---	PASS
	Ant2	5745	17.56	97.22	0.12	17.68	≤30.00	≤30.00	23.63	---	PASS
	Ant1	5785	17.18	96.53	0.15	17.33	≤29.12	≤29.12	24.21	---	PASS
	Ant2	5785	17.12	97.20	0.12	17.24	≤30.00	≤30.00	23.19	---	PASS
	Ant1	5825	17.47	97.22	0.12	17.59	≤29.12	≤29.12	24.47	---	PASS
	Ant2	5825	16.82	96.53	0.15	16.97	≤30.00	≤30.00	22.92	---	PASS
11N20MIMO	Ant1	5180	10.10	93.06	0.31	10.41	≤23.98	≤18.25	14.71	≤22.55	PASS
	Ant2	5180	9.30	93.06	0.31	9.61	≤22.96	≤15.48	16.63	≤22.50	PASS
	total	5180	---	---	---	13.04	≤21.10	≤15.48	18.79	≤22.50	PASS
	Ant1	5200	10.12	93.06	0.31	10.43	≤23.98	≤18.26	14.73	≤22.56	PASS
	Ant2	5200	9.67	93.06	0.31	9.98	≤22.96	≤15.48	17.00	≤22.50	PASS
	total	5200	---	---	---	13.22	≤21.10	≤15.48	19.02	≤22.50	PASS
	Ant1	5240	10.80	94.37	0.25	11.05	≤23.98	≤18.25	15.35	≤22.55	PASS
	Ant2	5240	10.05	93.06	0.31	10.36	≤22.96	≤15.48	17.38	≤22.50	PASS
	total	5240	---	---	---	13.73	≤21.10	≤15.48	19.49	≤22.50	PASS
	Ant1	5260	14.57	93.06	0.31	14.88	≤23.98	≤23.26	18.61	≤26.99	PASS
	Ant2	5260	13.71	93.06	0.31	14.02	≤23.14	≤20.15	20.86	≤26.99	PASS
	total	5260	---	---	---	17.48	≤21.41	≤20.15	22.89	≤26.99	PASS
	Ant1	5280	14.54	93.06	0.31	14.85	≤23.98	≤23.26	18.58	≤26.99	PASS
	Ant2	5280	13.72	93.06	0.31	14.03	≤23.14	≤20.15	20.87	≤26.99	PASS
	total	5280	---	---	---	17.47	≤21.41	≤20.15	22.88	≤26.99	PASS
	Ant1	5320	14.41	93.06	0.31	14.72	≤23.98	≤23.26	18.45	≤26.99	PASS
	Ant2	5320	13.80	94.37	0.25	14.05	≤23.14	≤20.15	20.89	≤26.99	PASS
	total	5320	---	---	---	17.41	≤21.41	≤20.15	22.85	≤26.99	PASS
	Ant1	5500	13.94	93.06	0.31	14.25	≤23.98	≤21.45	19.79	≤26.99	PASS
	Ant2	5500	12.93	94.37	0.25	13.18	≤22.67	≤19.68	20.49	≤26.99	PASS
	total	5500	---	---	---	16.76	≤20.46	≤19.68	23.16	≤26.99	PASS
	Ant1	5580	14.34	93.06	0.31	14.65	≤23.98	≤21.45	20.19	≤26.99	PASS
	Ant2	5580	13.59	94.37	0.25	13.84	≤22.67	≤19.68	21.15	≤26.99	PASS
	total	5580	---	---	---	17.27	≤20.46	≤19.68	23.71	≤26.99	PASS
	Ant1	5700	14.09	94.37	0.25	14.34	≤23.98	≤21.45	19.88	≤26.99	PASS
	Ant2	5700	13.37	94.37	0.25	13.62	≤22.67	≤19.68	20.93	≤26.99	PASS
	total	5700	---	---	---	17.01	≤20.46	≤19.68	23.45	≤26.99	PASS
	Ant1	5720	14.05	93.06	0.31	14.36	≤23.98	≤21.45	19.90	≤26.99	PASS
	Ant2	5720	13.01	93.06	0.31	13.32	≤22.67	≤19.68	20.63	≤26.99	PASS
	total	5720	---	---	---	16.88	≤20.46	≤19.68	23.29	≤26.99	PASS
	Ant1	5745	17.26	93.06	0.31	17.57	≤29.12	≤29.12	24.45	---	PASS
	Ant2	5745	16.45	93.06	0.31	16.76	≤30.00	≤30.00	22.71	---	PASS
	total	5745	---	---	---	20.19	≤26.55	≤30.00	26.68	---	PASS
	Ant1	5785	16.31	93.06	0.31	16.62	≤29.12	≤29.12	23.50	---	PASS
	Ant2	5785	15.96	94.37	0.25	16.21	≤30.00	≤30.00	22.16	---	PASS
	total	5785	---	---	---	19.43	≤26.55	≤30.00	25.89	---	PASS
	Ant1	5825	16.69	94.37	0.25	16.94	≤29.12	≤29.12	23.82	---	PASS
	Ant2	5825	15.86	93.06	0.31	16.17	≤30.00	≤30.00	22.12	---	PASS
	total	5825	---	---	---	19.58	≤26.55	≤30.00	26.06	---	PASS

11N40MIMO	Ant1	5190	10.25	87.18	0.60	10.85	≤23.98	≤18.71	15.15	≤23.01	PASS
	Ant2	5190	9.60	89.74	0.47	10.07	≤22.96	≤15.99	17.09	≤23.01	PASS
	total	5190	---	---	---	13.49	≤21.10	≤15.99	19.24	≤23.01	PASS
	Ant1	5230	10.88	87.18	0.60	11.48	≤23.98	≤18.71	15.78	≤23.01	PASS
	Ant2	5230	10.06	87.18	0.60	10.66	≤22.96	≤15.99	17.68	≤23.01	PASS
	total	5230	---	---	---	14.10	≤21.10	≤15.99	19.84	≤23.01	PASS
	Ant1	5270	14.58	87.18	0.60	15.18	≤23.98	≤23.26	18.91	≤26.99	PASS
	Ant2	5270	13.93	87.18	0.60	14.53	≤23.14	≤20.15	21.37	≤26.99	PASS
	total	5270	---	---	---	17.88	≤21.41	≤20.15	23.32	≤26.99	PASS
	Ant1	5310	14.49	89.74	0.47	14.96	≤23.98	≤23.26	18.69	≤26.99	PASS
	Ant2	5310	13.92	89.74	0.47	14.39	≤23.14	≤20.15	21.23	≤26.99	PASS
	total	5310	---	---	---	17.69	≤21.41	≤20.15	23.15	≤26.99	PASS
	Ant1	5510	13.76	87.18	0.60	14.36	≤23.98	≤21.45	19.90	≤26.99	PASS
	Ant2	5510	13.00	87.18	0.60	13.60	≤22.67	≤19.68	20.91	≤26.99	PASS
	total	5510	---	---	---	17.01	≤20.46	≤19.68	23.44	≤26.99	PASS
	Ant1	5550	13.85	87.18	0.60	14.45	≤23.98	≤21.45	19.99	≤26.99	PASS
	Ant2	5550	13.39	87.18	0.60	13.99	≤22.67	≤19.68	21.30	≤26.99	PASS
	total	5550	---	---	---	17.24	≤20.46	≤19.68	23.70	≤26.99	PASS
	Ant1	5670	14.29	87.18	0.60	14.89	≤23.98	≤21.45	20.43	≤26.99	PASS
	Ant2	5670	13.80	87.18	0.60	14.40	≤22.67	≤19.68	21.71	≤26.99	PASS
	total	5670	---	---	---	17.66	≤20.46	≤19.68	24.13	≤26.99	PASS
	Ant1	5710	14.04	89.74	0.47	14.51	≤23.98	≤21.45	20.05	≤26.99	PASS
	Ant2	5710	13.27	87.18	0.60	13.87	≤22.67	≤19.68	21.18	≤26.99	PASS
	total	5710	---	---	---	17.21	≤20.46	≤19.68	23.66	≤26.99	PASS
	Ant1	5755	17.12	89.74	0.47	17.59	≤29.12	≤29.12	24.47	---	PASS
	Ant2	5755	16.48	89.74	0.47	16.95	≤30.00	≤30.00	22.90	---	PASS
	total	5755	---	---	---	20.29	≤26.55	≤30.00	26.77	---	PASS
	Ant1	5795	16.53	87.18	0.60	17.13	≤29.12	≤29.12	24.01	---	PASS
	Ant2	5795	16.12	87.18	0.60	16.72	≤30.00	≤30.00	22.67	---	PASS
	total	5795	---	---	---	19.94	≤26.55	≤30.00	26.40	---	PASS
11AC20MIMO	Ant1	5180	10.14	94.44	0.25	10.39	≤23.98	≤18.26	14.69	≤22.56	PASS
	Ant2	5180	9.26	93.15	0.31	9.57	≤22.96	≤15.48	16.59	≤22.50	PASS
	total	5180	---	---	---	13.01	≤21.10	≤15.48	18.75	≤22.50	PASS
	Ant1	5200	10.14	93.15	0.31	10.45	≤23.98	≤18.27	14.75	≤22.57	PASS
	Ant2	5200	9.79	93.15	0.31	10.10	≤22.96	≤15.48	17.12	≤22.50	PASS
	total	5200	---	---	---	13.29	≤21.10	≤15.48	19.11	≤22.50	PASS
	Ant1	5240	10.82	94.44	0.25	11.07	≤23.98	≤18.26	15.37	≤22.56	PASS
	Ant2	5240	10.14	94.44	0.25	10.39	≤22.96	≤15.48	17.41	≤22.50	PASS
	total	5240	---	---	---	13.75	≤21.10	≤15.48	19.52	≤22.50	PASS
	Ant1	5260	14.62	94.44	0.25	14.87	≤23.98	≤23.26	18.60	≤26.99	PASS
	Ant2	5260	13.53	94.44	0.25	13.78	≤23.14	≤20.15	20.62	≤26.99	PASS
	total	5260	---	---	---	17.37	≤21.10	≤20.15	22.74	≤26.99	PASS
	Ant1	5280	14.61	93.15	0.31	14.92	≤23.98	≤23.26	18.65	≤26.99	PASS
	Ant2	5280	13.73	94.44	0.25	13.98	≤23.14	≤20.15	20.82	≤26.99	PASS
	total	5280	---	---	---	17.49	≤21.41	≤20.15	22.88	≤26.99	PASS
	Ant1	5320	14.43	94.44	0.25	14.68	≤23.98	≤23.26	18.41	≤26.99	PASS
	Ant2	5320	13.72	93.15	0.31	14.03	≤23.14	≤20.15	20.87	≤26.99	PASS
	total	5320	---	---	---	17.38	≤21.41	≤20.15	22.82	≤26.99	PASS
	Ant1	5500	13.87	93.15	0.31	14.18	≤23.98	≤21.45	19.72	≤26.99	PASS
	Ant2	5500	12.84	93.15	0.31	13.15	≤22.67	≤19.68	20.46	≤26.99	PASS
	total	5500	---	---	---	16.71	≤20.46	≤19.68	23.12	≤26.99	PASS
	Ant1	5580	14.36	93.15	0.31	14.67	≤23.98	≤21.45	20.21	≤26.99	PASS
	Ant2	5580	13.58	94.44	0.25	13.83	≤22.67	≤19.68	21.14	≤26.99	PASS
	total	5580	---	---	---	17.28	≤20.46	≤19.68	23.71	≤26.99	PASS
	Ant1	5700	14.09	93.15	0.31	14.40	≤23.98	≤21.45	19.94	≤26.99	PASS
	Ant2	5700	13.27	94.44	0.25	13.52	≤22.67	≤19.68	20.83	≤26.99	PASS
	total	5700	---	---	---	16.99	≤20.46	≤19.68	23.42	≤26.99	PASS
	Ant1	5720	14.05	94.44	0.25	14.30	≤23.98	≤21.45	19.84	≤26.99	PASS
	Ant2	5720	13.02	93.15	0.31	13.33	≤22.67	≤19.68	20.64	≤26.99	PASS
	total	5720	---	---	---	16.85	≤20.46	≤19.68	23.27	≤26.99	PASS
	Ant1	5745	17.31	94.44	0.25	17.56	≤29.12	≤29.12	24.44	---	PASS
	Ant2	5745	16.41	94.44	0.25	16.66	≤30.00	≤30.00	22.61	---	PASS
	total	5745	---	---	---	20.14	≤26.55	≤30.00	26.63	---	PASS
	Ant1	5785	16.35	93.15	0.31	16.66	≤29.12	≤29.12	23.54	---	PASS
	Ant2	5785	16.05	93.15	0.31	16.36	≤30.00	≤30.00	22.31	---	PASS
	total	5785	---	---	---	19.52	≤26.55	≤30.00	25.98	---	PASS
	Ant1	5825	16.79	94.44	0.25	17.04	≤29.12	≤29.12	23.92	---	PASS
	Ant2	5825	15.70	93.15	0.31	16.01	≤30.00	≤30.00	21.96	---	PASS
	total	5825	---	---	---	19.57	≤26.55	≤30.00	26.06	---	PASS
11AC40MIMO	Ant1	5190	10.25	89.74	0.47	10.72	≤23.98	≤18.71	15.02	≤23.01	PASS
	Ant2	5190	9.54	89.74	0.47	10.01	≤22.96	≤15.99	17.03	≤23.01	PASS
	total	5190	---	---	---	13.39	≤21.10	≤15.99	19.15	≤23.01	PASS
	Ant1	5230	10.75	89.74	0.47	11.22	≤23.98	≤18.71	15.52	≤23.01	PASS
	Ant2	5230	10.12	87.50	0.58	10.70	≤22.96	≤15.99	17.72	≤23.01	PASS
	total	5230	---	---	---	13.98	≤21.10	≤15.99	19.77	≤23.01	PASS
	Ant1	5270	14.63	87.50	0.58	15.21	≤23.98	≤23.26	18.94	≤26.99	PASS

	Ant2	5270	13.88	89.74	0.47	14.35	≤23.14	≤20.15	21.19	≤26.99	PASS
	total	5270	---	---	---	17.81	≤21.41	≤20.15	23.22	≤26.99	PASS
	Ant1	5310	14.48	87.50	0.58	15.06	≤23.98	≤23.26	18.79	≤26.99	PASS
	Ant2	5310	13.90	89.74	0.47	14.37	≤23.14	≤20.15	21.21	≤26.99	PASS
	total	5310	---	---	---	17.74	≤21.41	≤20.15	23.18	≤26.99	PASS
	Ant1	5510	13.68	87.50	0.58	14.26	≤23.98	≤21.45	19.80	≤26.99	PASS
	Ant2	5510	12.82	89.74	0.47	13.29	≤22.67	≤19.68	20.60	≤26.99	PASS
	total	5510	---	---	---	16.81	≤20.46	≤19.68	23.23	≤26.99	PASS
	Ant1	5550	13.84	89.74	0.47	14.31	≤23.98	≤21.45	19.85	≤26.99	PASS
	Ant2	5550	13.20	87.50	0.58	13.78	≤22.67	≤19.68	21.09	≤26.99	PASS
	total	5550	---	---	---	17.06	≤20.46	≤19.68	23.52	≤26.99	PASS
	Ant1	5670	14.31	89.74	0.47	14.78	≤23.98	≤21.45	20.32	≤26.99	PASS
	Ant2	5670	13.65	89.74	0.47	14.12	≤22.67	≤19.68	21.43	≤26.99	PASS
	total	5670	---	---	---	17.47	≤20.46	≤19.68	23.92	≤26.99	PASS
	Ant1	5710	14.10	89.74	0.47	14.57	≤23.98	≤21.45	20.11	≤26.99	PASS
	Ant2	5710	13.20	89.74	0.47	13.67	≤22.67	≤19.68	20.98	≤26.99	PASS
	total	5710	---	---	---	17.15	≤20.46	≤19.68	23.58	≤26.99	PASS
	Ant1	5755	16.91	89.74	0.47	17.38	≤29.12	≤29.12	24.26	---	PASS
	Ant2	5755	16.42	87.50	0.58	17.00	≤30.00	≤30.00	22.95	---	PASS
	total	5755	---	---	---	20.20	≤26.55	≤30.00	26.66	---	PASS
	Ant1	5795	16.47	89.74	0.47	16.94	≤29.12	≤29.12	23.82	---	PASS
	Ant2	5795	16.06	87.50	0.58	16.64	≤30.00	≤30.00	22.59	---	PASS
	total	5795	---	---	---	19.80	≤26.55	≤30.00	26.26	---	PASS
11AC80MIMO	Ant1	5210	10.93	82.61	0.83	11.76	≤23.98	≤18.71	16.06	≤23.01	PASS
	Ant2	5210	10.35	82.61	0.83	11.18	≤22.96	≤15.99	18.20	≤23.01	PASS
	total	5210	---	---	---	14.49	≤21.10	≤15.99	20.27	≤23.01	PASS
	Ant1	5290	15.20	78.26	1.06	16.26	≤23.98	≤23.26	19.99	≤26.99	PASS
	Ant2	5290	14.34	78.26	1.06	15.40	≤23.14	≤20.15	22.24	≤26.99	PASS
	total	5290	---	---	---	18.86	≤21.41	≤20.15	24.27	≤26.99	PASS
	Ant1	5530	14.30	78.26	1.06	15.36	≤23.98	≤21.45	20.90	≤26.99	PASS
	Ant2	5530	13.63	82.61	0.83	14.46	≤22.67	≤19.68	21.77	≤26.99	PASS
	total	5530	---	---	---	17.94	≤20.46	≤19.68	24.37	≤26.99	PASS
	Ant1	5610	14.99	82.61	0.83	15.82	≤23.98	≤21.45	21.36	≤26.99	PASS
	Ant2	5610	14.25	78.26	1.06	15.31	≤22.67	≤19.68	22.62	≤26.99	PASS
	total	5610	---	---	---	18.58	≤20.46	≤19.68	25.05	≤26.99	PASS
	Ant1	5690	14.69	82.61	0.83	15.52	≤23.98	≤21.45	21.06	≤26.99	PASS
	Ant2	5690	13.96	82.61	0.83	14.79	≤22.67	≤19.68	22.10	≤26.99	PASS
	total	5690	---	---	---	18.18	≤20.46	≤19.68	24.62	≤26.99	PASS
	Ant1	5775	17.22	78.26	1.06	18.28	≤29.12	≤29.12	25.16	---	PASS
	Ant2	5775	16.72	78.26	1.06	17.78	≤30.00	≤30.00	23.73	---	PASS
	total	5775	---	---	---	21.05	≤26.55	≤30.00	27.51	---	PASS

9. Power Spectral Density

9.1. Block diagram of test setup



9.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	For RSS eirp: 10 dBm/MHz	
	11 dBm/MHz	5250-5350
	11 dBm/MHz	For FCC: 5470 - 5725 For ISED: 5470 - 5600 5650 - 5725
	30 dBm/500 kHz	5725-5850
Note：For 802.11n, 802.11ac, the EUT incorporates a MIMO function. For 5150-5250MHz, The Antenna 2 directional gain is 7.02 dBi. The Power Spectral Density limit is the above limits-(7.02-6) dB. For 5250-5350MHz, The Antenna 2 directional gain is 6.84 dBi. The Power Spectral Density limit is the above limits-(6.84-6) dB. For 5470-5725MHz, The Antenna 2 directional gain is 7.31 dBi. The Power Spectral Density limit is the above limits-(7.31-6) dB. For 5725-5850MHz, The Antenna 1 directional gain is 6.88 dBi. The Power Spectral Density limit is the above limits-(6.88-6) dB.		

9.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.
Connect the UUT to the spectrum analyser and use the following settings:
5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

9.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.2-50.4℃,29.6-35.1%RH	Test Date:	2025.03.19-2025.03.29
Test Power Supply:	AC 120V	Sample Number:	S25011610-003

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	RSS EIRP Limit [dBm/MHz]	Verdict
11A	Ant1	5180	2.96	≤11.00	7.26	≤10.00	PASS
	Ant2	5180	2.42	≤9.98	9.44	≤10.00	PASS
	Ant1	5200	1.89	≤11.00	6.19	≤10.00	PASS
	Ant2	5200	1.52	≤9.98	8.54	≤10.00	PASS
	Ant1	5240	2.35	≤11.00	6.65	≤10.00	PASS
	Ant2	5240	2.05	≤9.98	9.07	≤10.00	PASS
	Ant1	5260	8.80	≤11.00	12.53	---	PASS
	Ant2	5260	8.38	≤10.16	15.22	---	PASS
	Ant1	5280	8.01	≤11.00	11.74	---	PASS
	Ant2	5280	7.63	≤10.16	14.47	---	PASS
	Ant1	5320	8.39	≤11.00	12.12	---	PASS
	Ant2	5320	8.13	≤10.16	14.97	---	PASS
	Ant1	5500	8.20	≤11.00	13.74	---	PASS
	Ant2	5500	7.65	≤9.69	14.96	---	PASS
	Ant1	5580	7.64	≤11.00	13.18	---	PASS
	Ant2	5580	7.21	≤9.69	14.52	---	PASS
	Ant1	5700	8.20	≤11.00	13.74	---	PASS
	Ant2	5700	7.83	≤9.69	15.14	---	PASS
	Ant1	5720_UNII-2C	7.15	≤11.00	12.69	---	PASS
	Ant2	5720_UNII-2C	6.65	≤9.69	13.96	---	PASS
	Ant1	5720_UNII-3	2.77	≤29.12	9.65	---	PASS
	Ant2	5720_UNII-3	2.02	≤30.00	7.97	---	PASS
	Ant1	5745	4.48	≤29.12	11.36	---	PASS
	Ant2	5745	4.19	≤30.00	10.14	---	PASS
	Ant1	5785	3.70	≤29.12	10.58	---	PASS
	Ant2	5785	3.83	≤30.00	9.78	---	PASS
	Ant1	5825	3.78	≤29.12	10.66	---	PASS
	Ant2	5825	3.31	≤30.00	9.26	---	PASS
11N20MIMO	Ant1	5180	-0.01	≤11.00	4.29	≤10.00	PASS
	Ant2	5180	-0.75	≤9.98	6.27	≤10.00	PASS
	total	5180	2.65	≤8.12	8.40	≤10.00	PASS
	Ant1	5200	-1.13	≤11.00	3.17	≤10.00	PASS
	Ant2	5200	-1.44	≤9.98	5.58	≤10.00	PASS
	total	5200	1.73	≤8.12	7.55	≤10.00	PASS
	Ant1	5240	-0.69	≤11.00	3.61	≤10.00	PASS
	Ant2	5240	-1.23	≤9.98	5.79	≤10.00	PASS
	total	5240	2.06	≤8.12	7.85	≤10.00	PASS
	Ant1	5260	4.03	≤11.00	7.76	---	PASS
	Ant2	5260	3.38	≤10.16	10.22	---	PASS
	total	5260	6.73	≤8.43	12.17	---	PASS
	Ant1	5280	3.35	≤11.00	7.08	---	PASS
	Ant2	5280	2.71	≤10.16	9.55	---	PASS
	total	5280	6.05	≤8.12	11.50	---	PASS
	Ant1	5320	3.91	≤11.00	7.64	---	PASS
	Ant2	5320	3.22	≤10.16	10.06	---	PASS
	total	5320	6.59	≤8.12	12.03	---	PASS
	Ant1	5500	3.49	≤11.00	9.03	---	PASS
	Ant2	5500	2.58	≤9.69	9.89	---	PASS
	total	5500	6.07	≤7.48	12.49	---	PASS
	Ant1	5580	3.10	≤11.00	8.64	---	PASS
	Ant2	5580	2.40	≤9.69	9.71	---	PASS
	total	5580	5.77	≤7.48	12.22	---	PASS
	Ant1	5700	3.54	≤11.00	9.08	---	PASS

	Ant2	5700	2.84	≤9.69	10.15	---	PASS
	total	5700	6.21	≤7.48	12.66	---	PASS
	Ant1	5720_UNII-2C	2.53	≤11.00	8.07	---	PASS
	Ant2	5720_UNII-2C	1.64	≤9.69	8.95	---	PASS
	total	5720_UNII-2C	5.12	≤7.48	11.54	---	PASS
	Ant1	5720_UNII-3	-1.86	≤29.12	5.02	---	PASS
	Ant2	5720_UNII-3	-2.84	≤30.00	3.11	---	PASS
	total	5720_UNII-3	0.69	≤26.55	7.18	---	PASS
	Ant1	5745	3.83	≤29.12	10.71	---	PASS
	Ant2	5745	3.22	≤30.00	9.17	---	PASS
	total	5745	6.55	≤26.55	13.02	---	PASS
	Ant1	5785	2.81	≤29.12	9.69	---	PASS
	Ant2	5785	2.69	≤30.00	8.64	---	PASS
	total	5785	5.76	≤26.55	12.21	---	PASS
	Ant1	5825	3.03	≤29.12	9.91	---	PASS
	Ant2	5825	2.35	≤30.00	8.30	---	PASS
	total	5825	5.71	≤26.55	12.19	---	PASS
11N40MIMO	Ant1	5190	-3.60	≤11.00	0.70	≤10.00	PASS
	Ant2	5190	-4.08	≤9.98	2.94	≤10.00	PASS
	total	5190	-0.82	≤8.12	4.97	≤10.00	PASS
	Ant1	5230	-2.79	≤11.00	1.51	≤10.00	PASS
	Ant2	5230	-3.14	≤9.98	3.88	≤10.00	PASS
	total	5230	0.05	≤8.12	5.87	≤10.00	PASS
	Ant1	5270	1.29	≤11.00	5.02	---	PASS
	Ant2	5270	0.64	≤10.16	7.48	---	PASS
	total	5270	3.99	≤8.43	9.43	---	PASS
	Ant1	5310	1.26	≤11.00	4.99	---	PASS
	Ant2	5310	0.70	≤10.16	7.54	---	PASS
	total	5310	4.00	≤8.43	9.46	---	PASS
	Ant1	5510	0.71	≤11.00	6.25	---	PASS
	Ant2	5510	-0.07	≤9.69	7.24	---	PASS
	total	5510	3.35	≤7.48	9.78	---	PASS
	Ant1	5550	0.72	≤11.00	6.26	---	PASS
	Ant2	5550	0.50	≤9.69	7.81	---	PASS
	total	5550	3.62	≤7.48	10.11	---	PASS
	Ant1	5670	-0.02	≤11.00	5.52	---	PASS
	Ant2	5670	-0.45	≤9.69	6.86	---	PASS
	total	5670	2.78	≤7.48	9.25	---	PASS
	Ant1	5710_UNII-2C	-0.03	≤11.00	5.51	---	PASS
	Ant2	5710_UNII-2C	-0.47	≤9.69	6.84	---	PASS
	total	5710_UNII-2C	2.77	≤7.48	9.24	---	PASS
	Ant1	5710_UNII-3	-5.99	≤29.12	0.89	---	PASS
	Ant2	5710_UNII-3	-6.64	≤30.00	-0.69	---	PASS
	total	5710_UNII-3	-3.29	≤26.55	3.18	---	PASS
	Ant1	5755	0.32	≤29.12	7.20	---	PASS
	Ant2	5755	0.15	≤30.00	6.10	---	PASS
	total	5755	3.25	≤26.55	9.70	---	PASS
	Ant1	5795	0.05	≤29.12	6.93	---	PASS
	Ant2	5795	0.04	≤30.00	5.99	---	PASS
	total	5795	3.06	≤26.55	9.50	---	PASS
11AC20MIMO	Ant1	5180	-0.02	≤11.00	4.28	≤10.00	PASS
	Ant2	5180	-0.70	≤9.98	6.32	≤10.00	PASS
	total	5180	2.66	≤8.12	8.43	≤10.00	PASS
	Ant1	5200	-1.00	≤11.00	3.30	≤10.00	PASS
	Ant2	5200	-1.33	≤9.98	5.69	≤10.00	PASS
	total	5200	1.85	≤8.12	7.67	≤10.00	PASS
	Ant1	5240	-0.54	≤11.00	3.76	≤10.00	PASS
	Ant2	5240	-1.16	≤9.98	5.86	≤10.00	PASS

	total	5240	2.17	≤8.12	7.95	≤10.00	PASS
	Ant1	5260	4.06	≤11.00	7.79	---	PASS
	Ant2	5260	3.24	≤10.16	10.08	---	PASS
	total	5260	6.68	≤8.43	12.09	---	PASS
	Ant1	5280	3.36	≤11.00	7.09	---	PASS
	Ant2	5280	2.50	≤10.16	9.34	---	PASS
	total	5280	5.96	≤8.43	11.37	---	PASS
	Ant1	5320	3.75	≤11.00	7.48	---	PASS
	Ant2	5320	3.29	≤10.16	10.13	---	PASS
	total	5320	6.54	≤8.43	12.01	---	PASS
	Ant1	5500	3.65	≤11.00	9.19	---	PASS
	Ant2	5500	2.65	≤9.69	9.96	---	PASS
	total	5500	6.19	≤7.48	12.60	---	PASS
	Ant1	5580	3.18	≤11.00	8.72	---	PASS
	Ant2	5580	2.36	≤9.69	9.67	---	PASS
	total	5580	5.80	≤7.48	12.23	---	PASS
	Ant1	5700	3.54	≤11.00	9.08	---	PASS
	Ant2	5700	2.70	≤9.69	10.01	---	PASS
	total	5700	6.15	≤7.48	12.58	---	PASS
	Ant1	5720_UNII-2C	2.58	≤11.00	8.12	---	PASS
	Ant2	5720_UNII-2C	1.58	≤9.69	8.89	---	PASS
	total	5720_UNII-2C	5.12	≤7.48	11.53	---	PASS
	Ant1	5720_UNII-3	-1.95	≤29.12	4.93	---	PASS
	Ant2	5720_UNII-3	-2.77	≤30.00	3.18	---	PASS
	total	5720_UNII-3	0.67	≤26.55	7.15	---	PASS
	Ant1	5745	3.78	≤29.12	10.66	---	PASS
	Ant2	5745	3.00	≤30.00	8.95	---	PASS
	total	5745	6.42	≤26.55	12.90	---	PASS
	Ant1	5785	2.86	≤29.12	9.74	---	PASS
	Ant2	5785	2.76	≤30.00	8.71	---	PASS
	total	5785	5.82	≤26.55	12.27	---	PASS
	Ant1	5825	3.08	≤29.12	9.96	---	PASS
	Ant2	5825	2.32	≤30.00	8.27	---	PASS
	total	5825	5.73	≤26.55	12.21	---	PASS
11AC40MIMO	Ant1	5190	-3.53	≤11.00	0.77	≤10.00	PASS
	Ant2	5190	-4.15	≤9.98	2.87	≤10.00	PASS
	total	5190	-0.82	≤8.12	4.96	≤10.00	PASS
	Ant1	5230	-2.82	≤11.00	1.48	≤10.00	PASS
	Ant2	5230	-3.11	≤9.98	3.91	≤10.00	PASS
	total	5230	0.05	≤8.12	5.87	≤10.00	PASS
	Ant1	5270	1.27	≤11.00	5.00	---	PASS
	Ant2	5270	0.59	≤10.16	7.43	---	PASS
	total	5270	3.95	≤8.43	9.39	---	PASS
	Ant1	5310	1.47	≤11.00	5.20	---	PASS
	Ant2	5310	0.74	≤10.16	7.58	---	PASS
	total	5310	4.13	≤8.43	9.56	---	PASS
	Ant1	5510	0.59	≤11.00	6.13	---	PASS
	Ant2	5510	-0.34	≤9.69	6.97	---	PASS
	total	5510	3.16	≤7.48	9.58	---	PASS
	Ant1	5550	0.67	≤11.00	6.21	---	PASS
	Ant2	5550	0.46	≤9.69	7.77	---	PASS
	total	5550	3.58	≤7.48	10.07	---	PASS
	Ant1	5670	-0.15	≤11.00	5.39	---	PASS
	Ant2	5670	-0.61	≤9.69	6.70	---	PASS
	total	5670	2.64	≤7.48	9.10	---	PASS
	Ant1	5710_UNII-2C	0.01	≤11.00	5.55	---	PASS
	Ant2	5710_UNII-2C	-0.68	≤9.69	6.63	---	PASS
	total	5710_UNII-2C	2.69	≤7.48	9.13	---	PASS

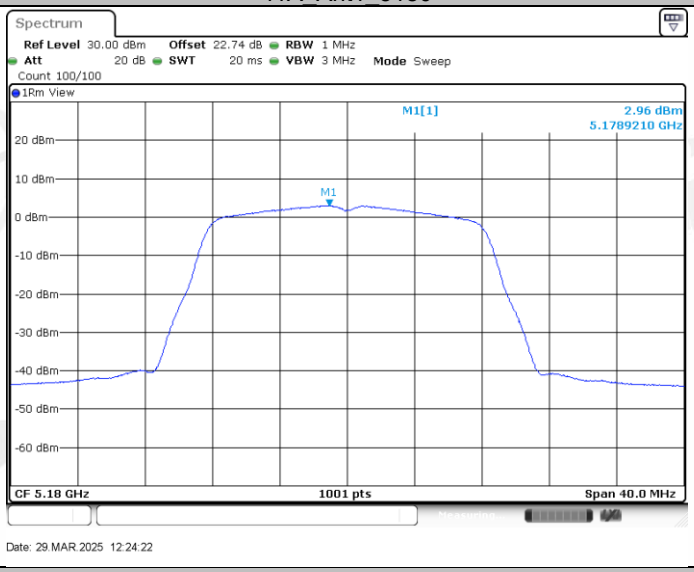
	Ant1	5710_UNII-3	-6.02	≤29.12	0.86	---	PASS
	Ant2	5710_UNII-3	-7.07	≤30.00	-1.12	---	PASS
	total	5710_UNII-3	-3.50	≤26.55	2.99	---	PASS
	Ant1	5755	0.61	≤29.12	7.49	---	PASS
	Ant2	5755	0.23	≤30.00	6.18	---	PASS
	total	5755	3.43	≤26.55	9.89	---	PASS
	Ant1	5795	-0.02	≤29.12	6.86	---	PASS
	Ant2	5795	0.04	≤30.00	5.99	---	PASS
	total	5795	3.02	≤26.55	9.46	---	PASS
11AC80MIMO	Ant1	5210	-4.90	≤11.00	-0.60	≤10.00	PASS
	Ant2	5210	-5.45	≤9.98	1.57	≤10.00	PASS
	total	5210	-2.16	≤8.12	3.63	≤10.00	PASS
	Ant1	5290	-1.97	≤11.00	1.76	---	PASS
	Ant2	5290	-2.47	≤10.16	4.37	---	PASS
	total	5290	0.80	≤8.43	6.27	---	PASS
	Ant1	5530	-2.14	≤11.00	3.40	---	PASS
	Ant2	5530	-2.71	≤9.69	4.60	---	PASS
	total	5530	0.59	≤7.48	7.05	---	PASS
	Ant1	5610	-1.29	≤11.00	4.25	---	PASS
	Ant2	5610	-1.63	≤9.69	5.68	---	PASS
	total	5610	1.55	≤7.48	8.03	---	PASS
	Ant1	5690_UNII-2C	-1.26	≤11.00	4.28	---	PASS
	Ant2	5690_UNII-2C	-1.90	≤9.69	5.41	---	PASS
	total	5690_UNII-2C	1.44	≤7.48	7.89	---	PASS
	Ant1	5690_UNII-3	-7.99	≤29.12	-1.11	---	PASS
	Ant2	5690_UNII-3	-8.82	≤30.00	-2.87	---	PASS
	total	5690_UNII-3	-5.37	≤26.55	1.11	---	PASS
	Ant1	5775	-2.04	≤29.12	4.84	---	PASS
	Ant2	5775	-2.18	≤30.00	3.77	---	PASS
	total	5775	0.90	≤26.55	7.35	---	PASS

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

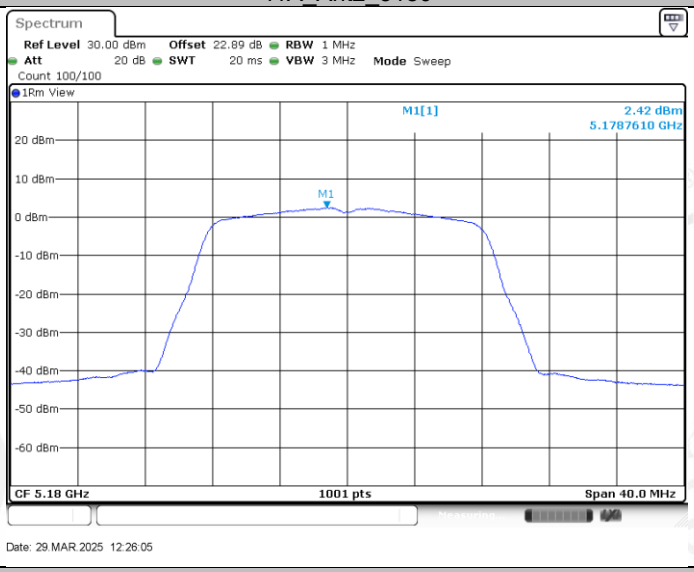
2.The Duty Cycle Factor is compensated in the graph.

9.5. Test graphs

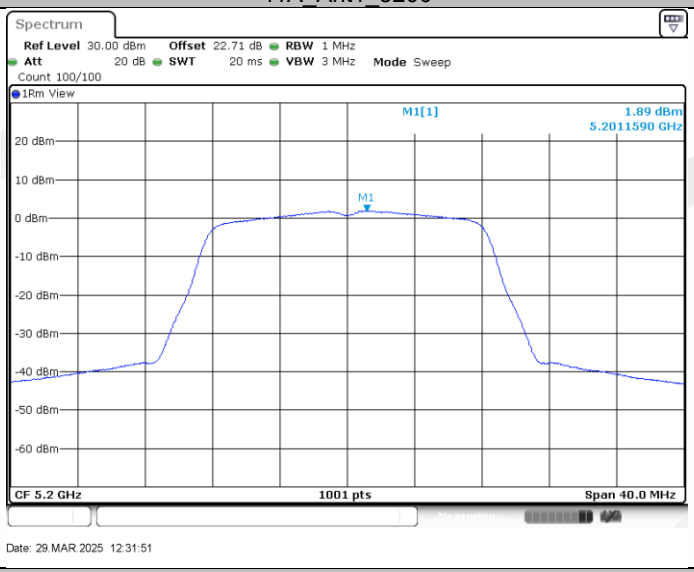
11A_Ant1_5180



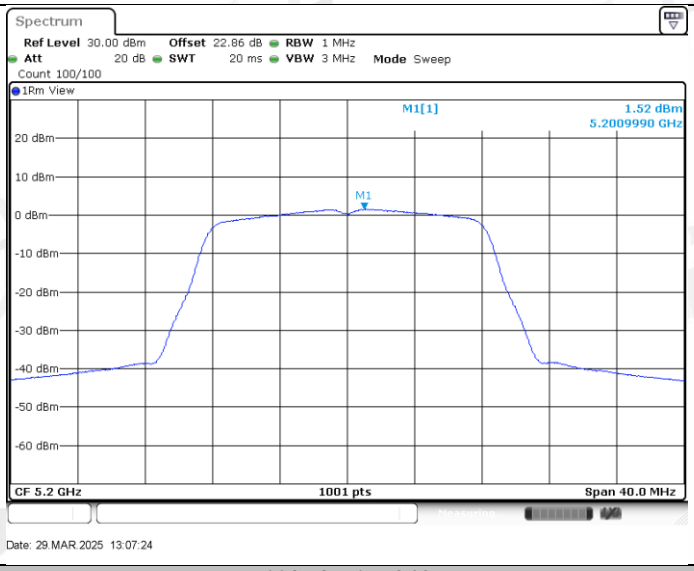
11A_Ant2_5180



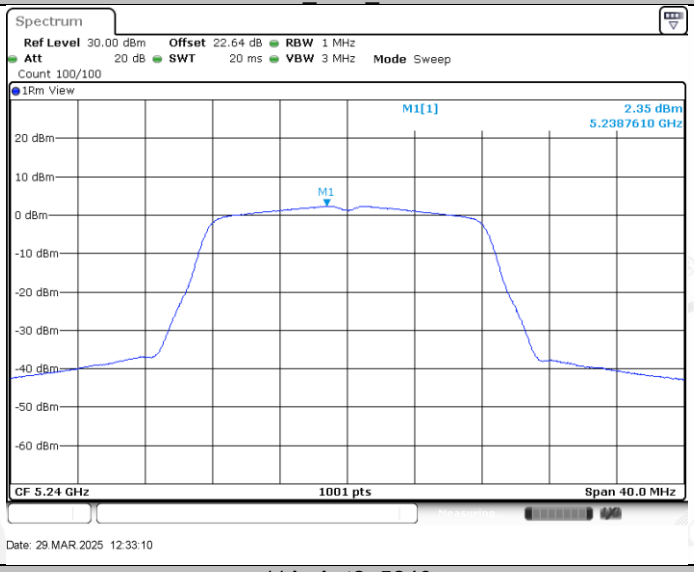
11A_Ant1_5200



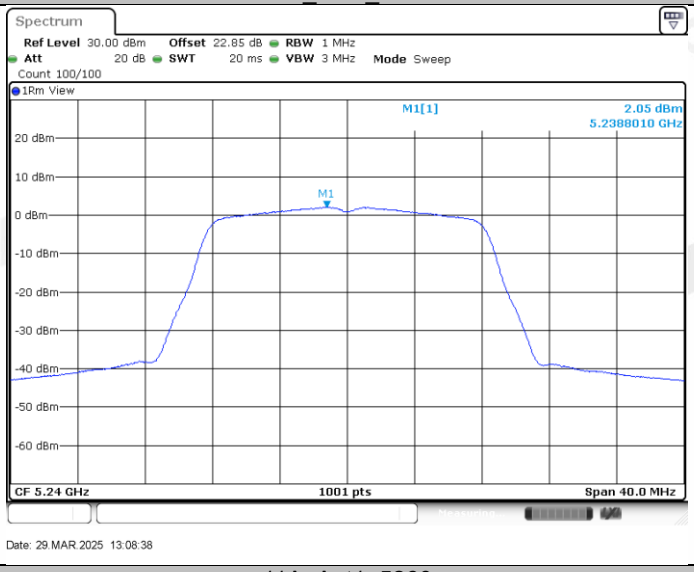
11A_Ant2_5200



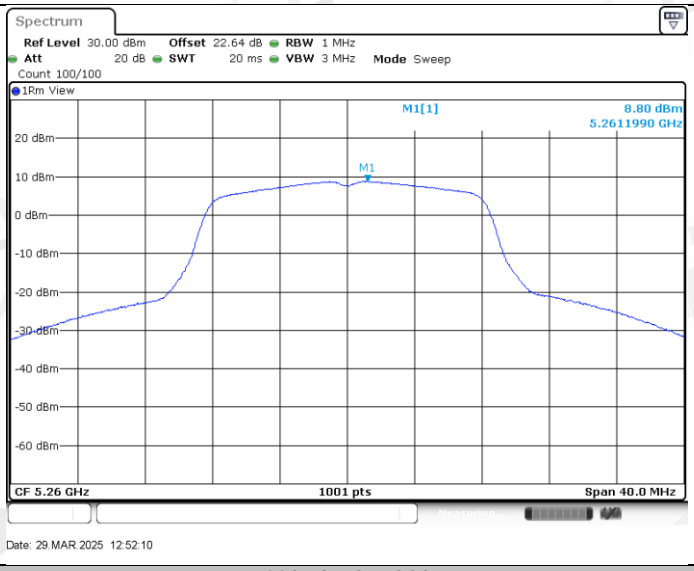
11A_Ant1_5240



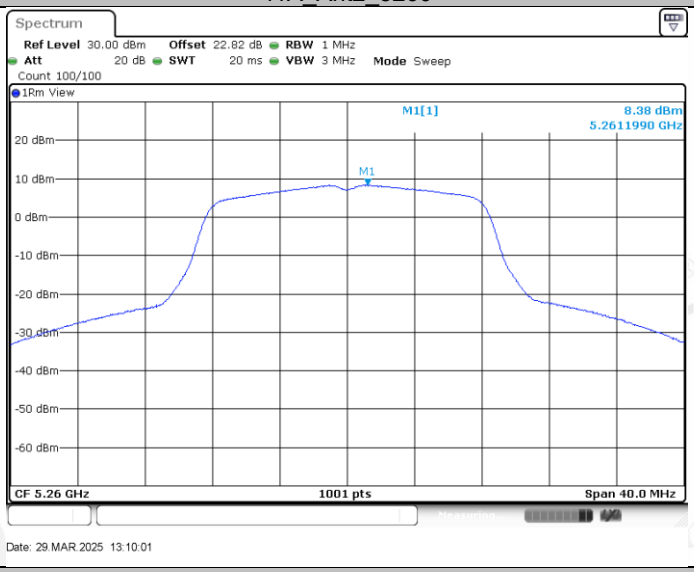
11A_Ant2_5240



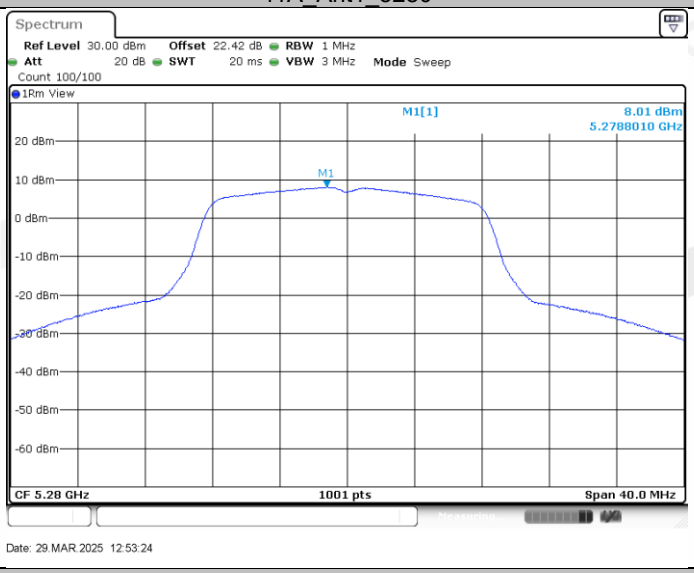
11A_Ant1_5260



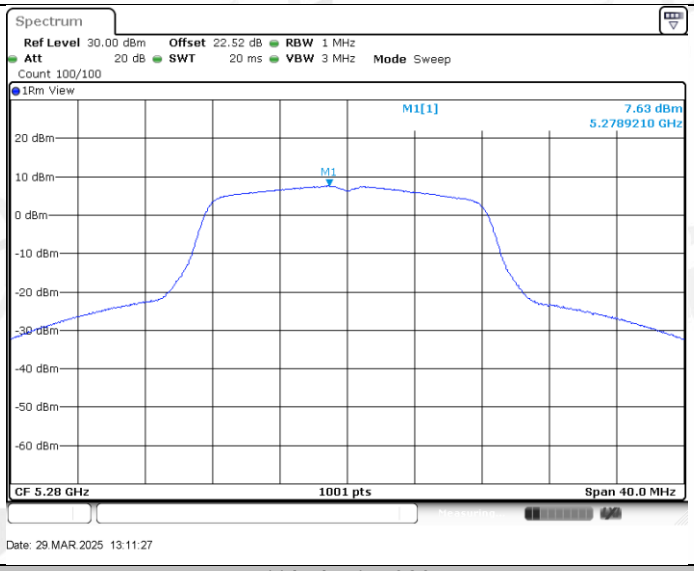
11A_Ant2_5260



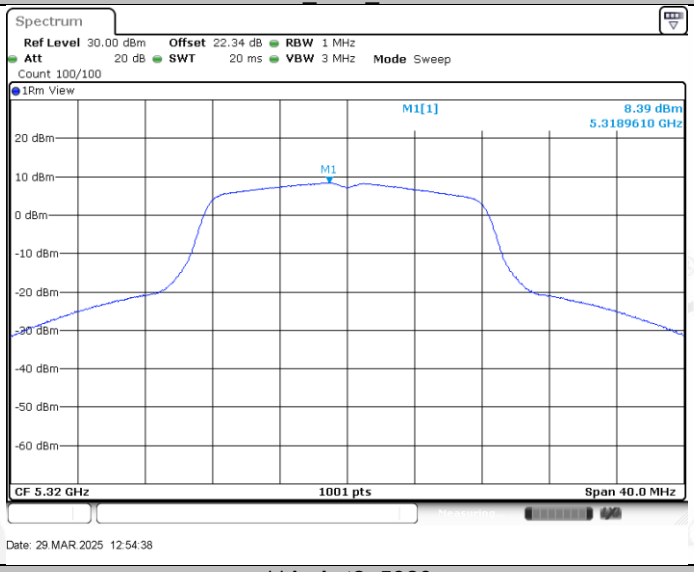
11A_Ant1_5280



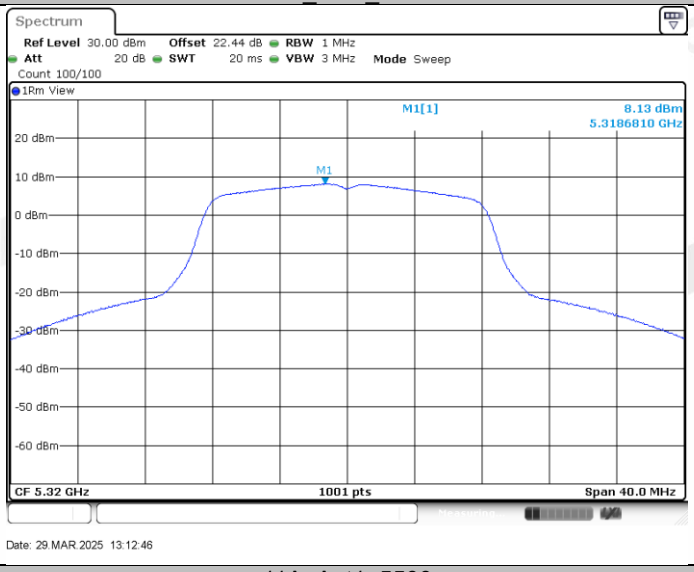
11A_Ant2_5280



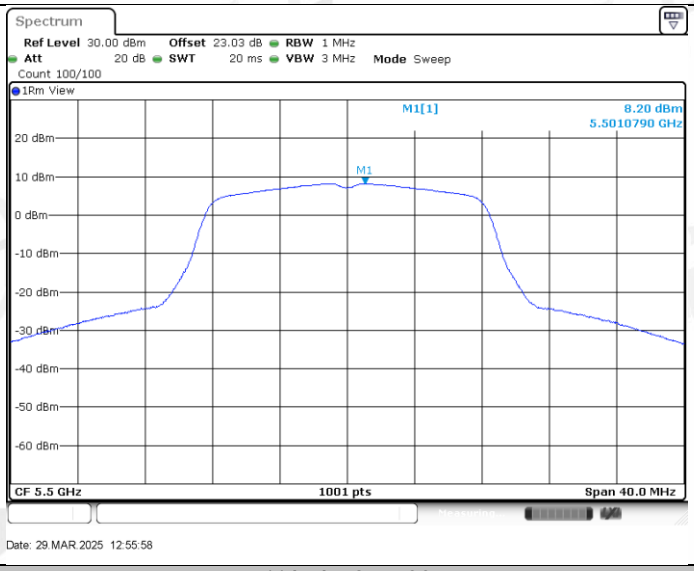
11A_Ant1_5320



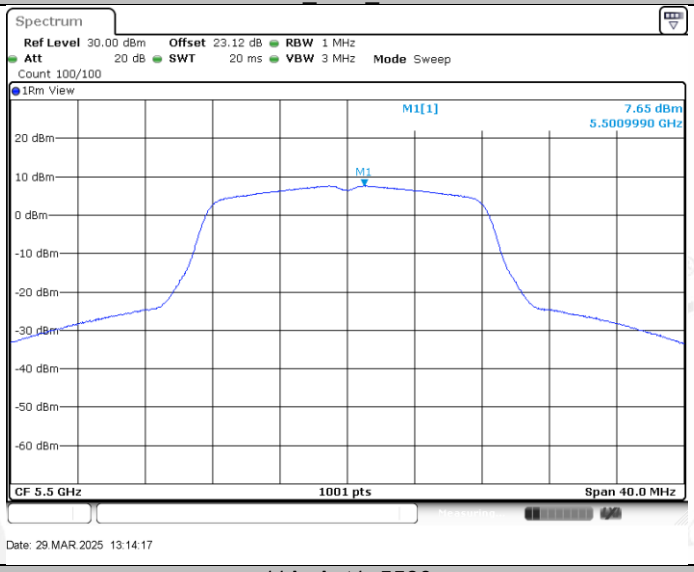
11A_Ant2_5320



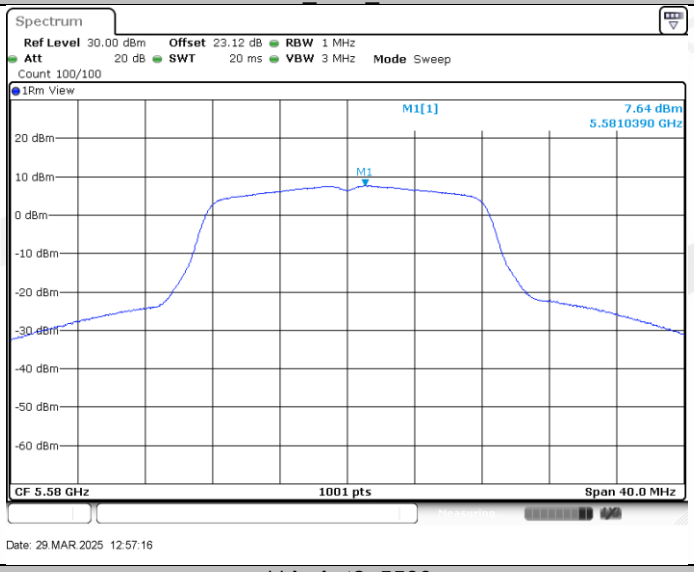
11A_Ant1_5500



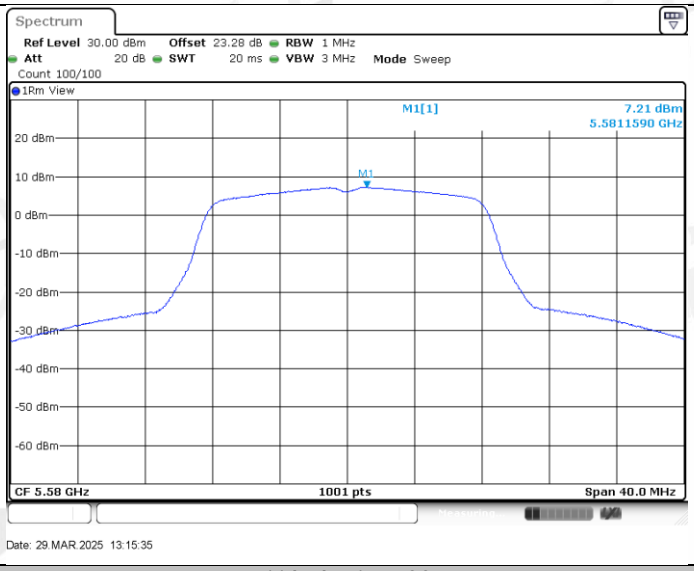
11A_Ant2_5500



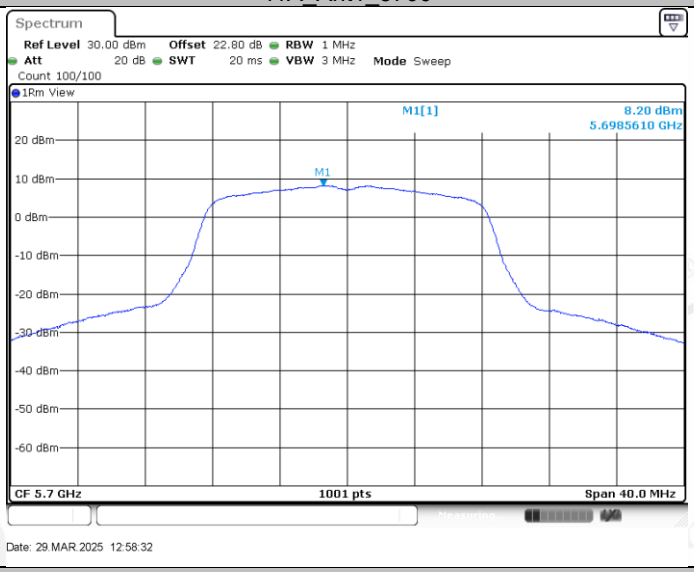
11A_Ant1_5580



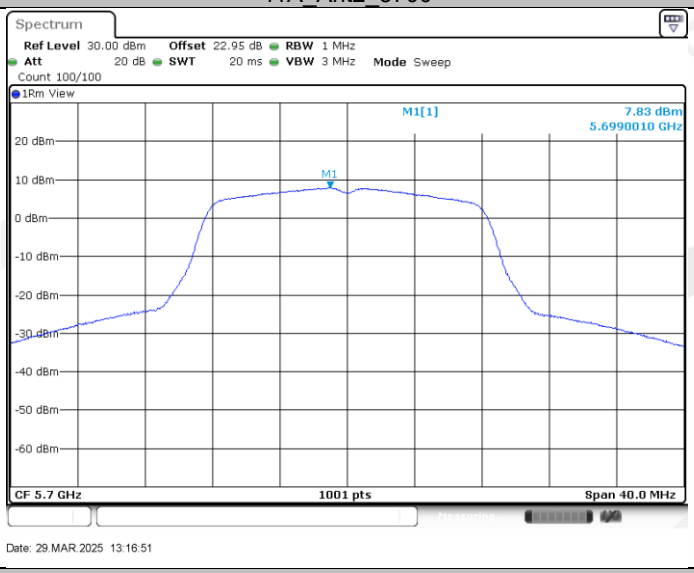
11A_Ant2_5580



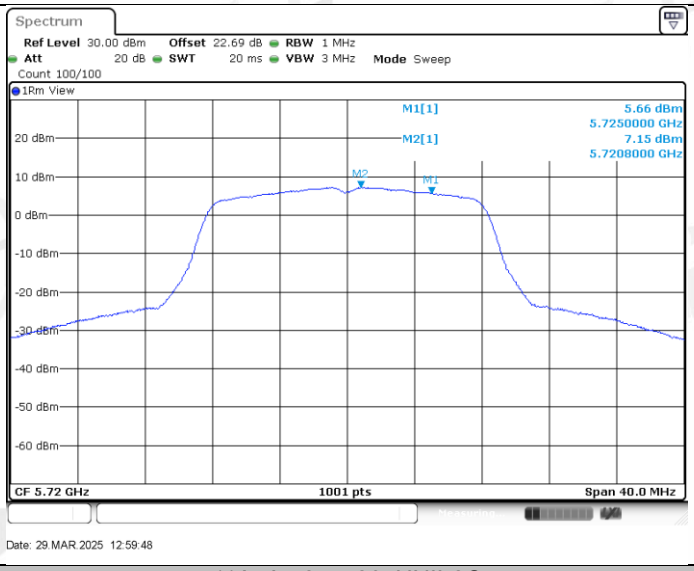
11A_Ant1_5700



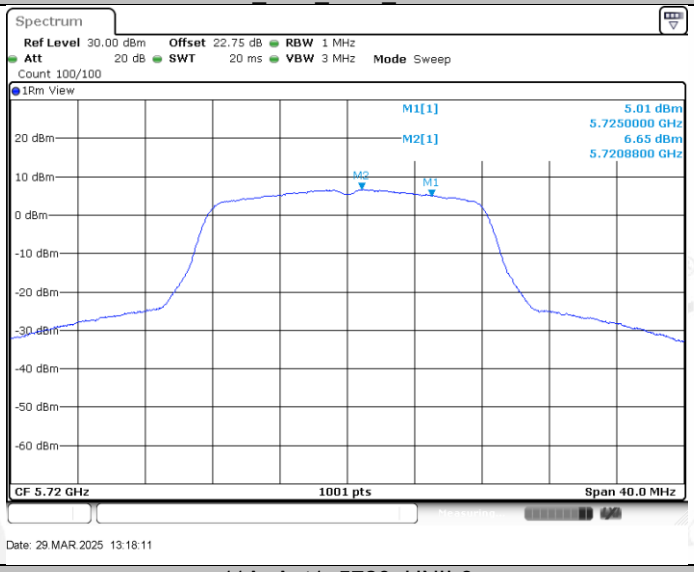
11A_Ant2_5700



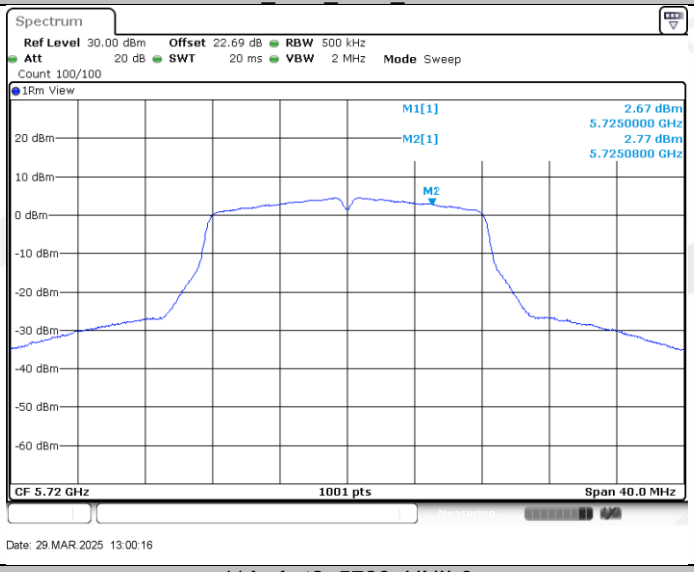
11A_Ant1_5720_UNII-2C



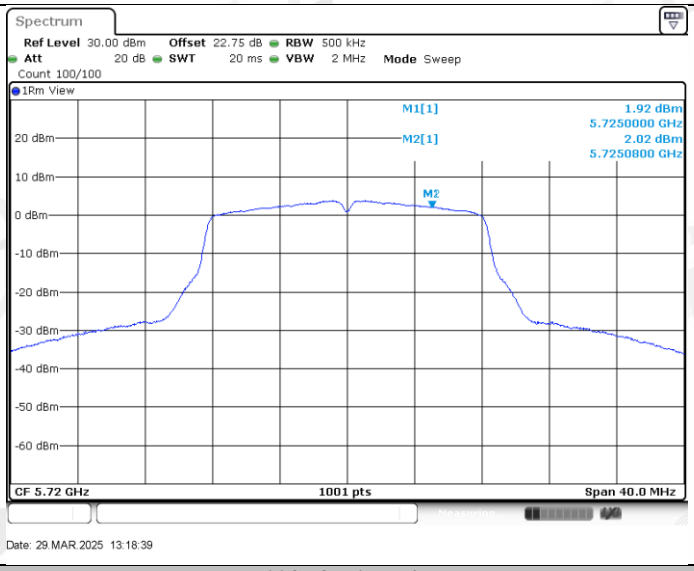
11A_Ant2_5720_UNII-2C



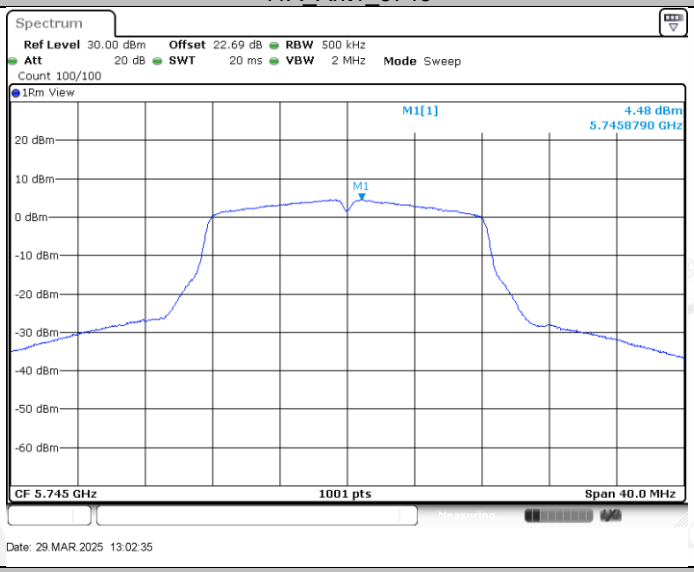
11A_Ant1_5720_UNII-3



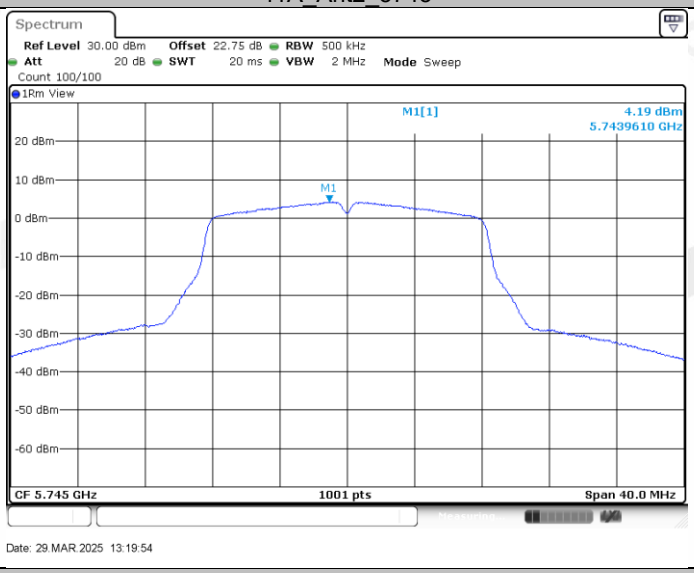
11A_Ant2_5720_UNII-3



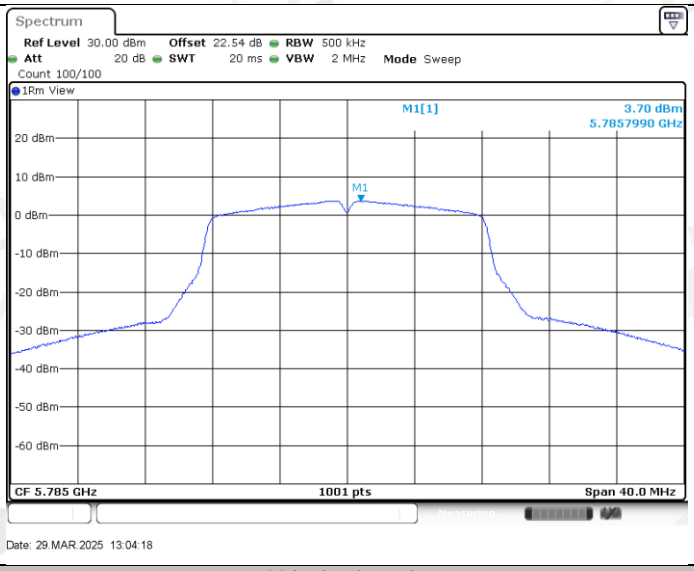
11A_Ant1_5745



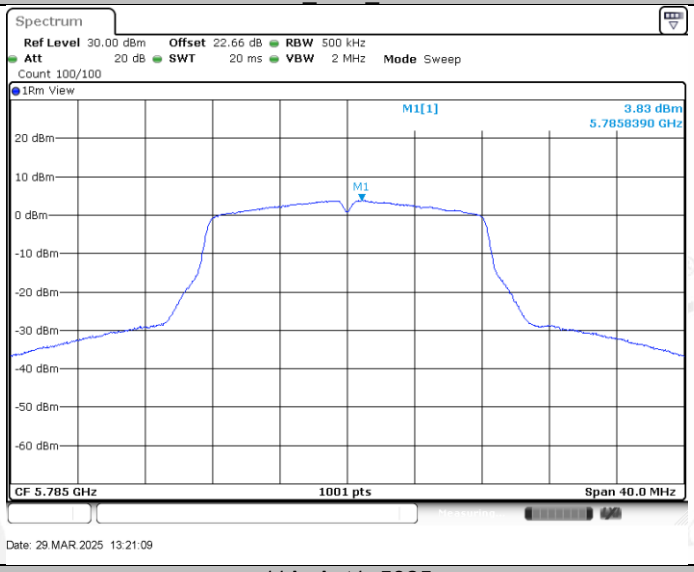
11A_Ant2_5745



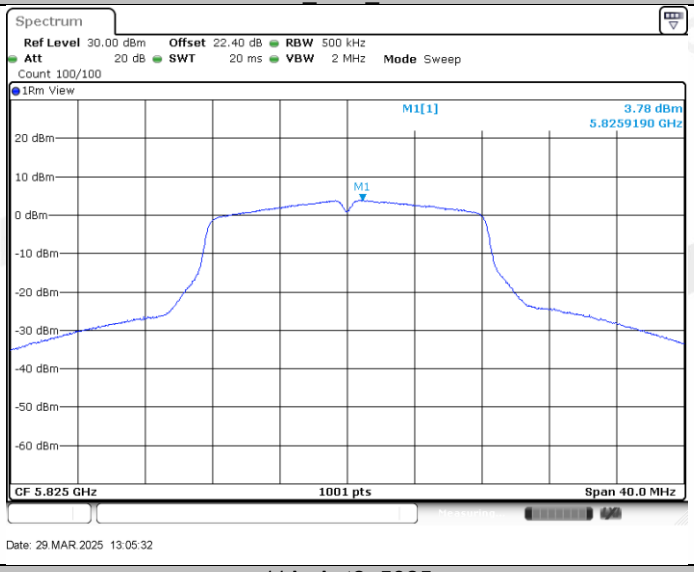
11A_Ant1_5785



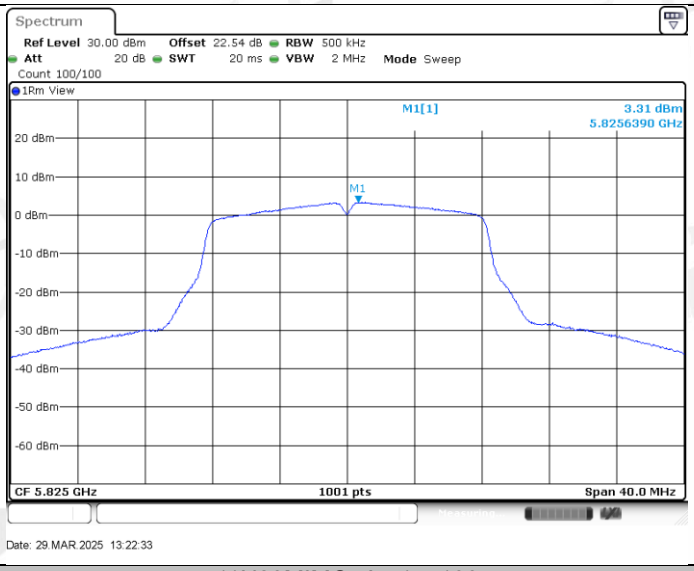
11A_Ant2_5785



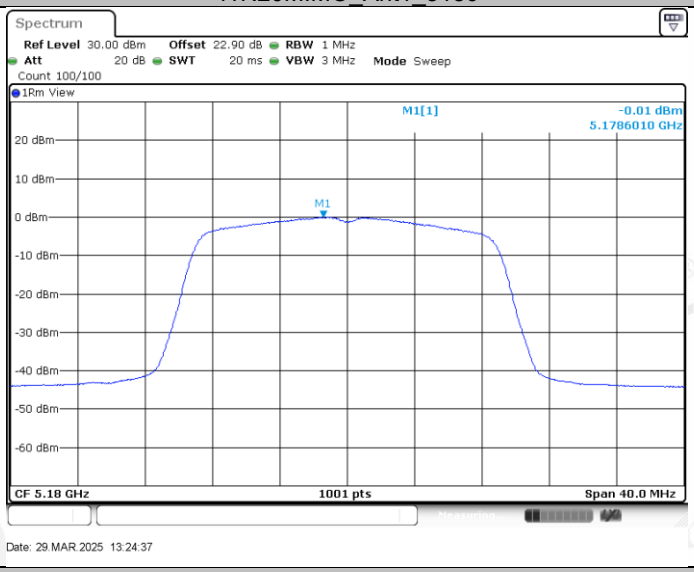
11A_Ant1_5825



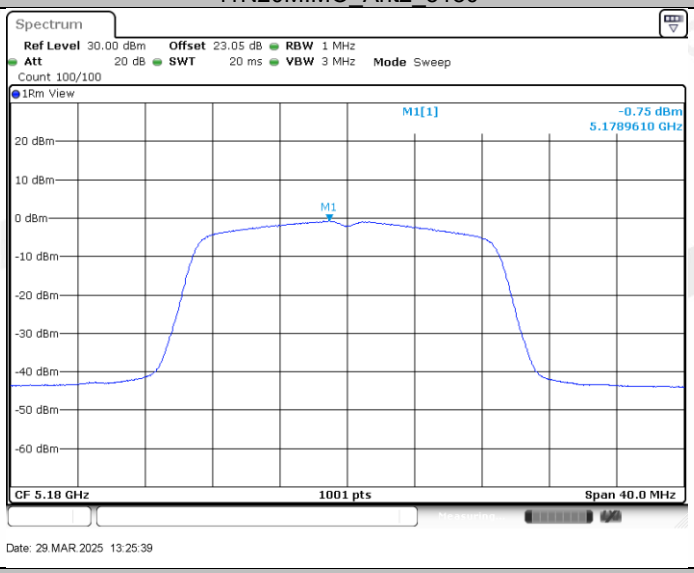
11A_Ant2_5825



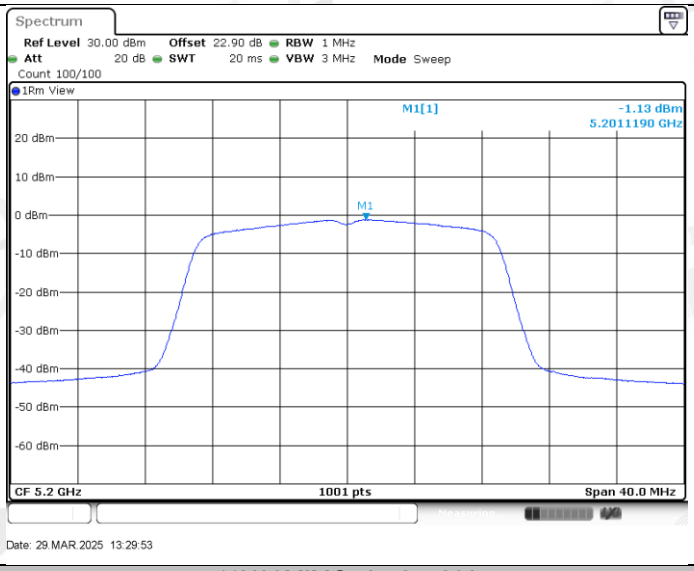
11N20MIMO_Ant1_5180



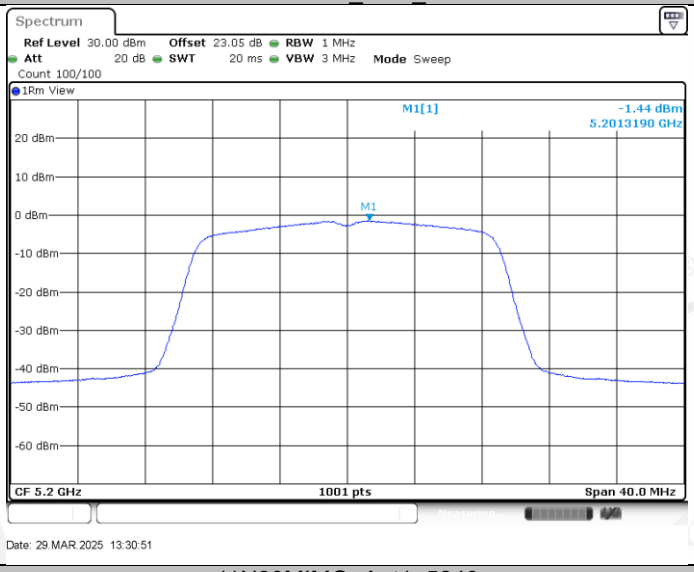
11N20MIMO_Ant2_5180



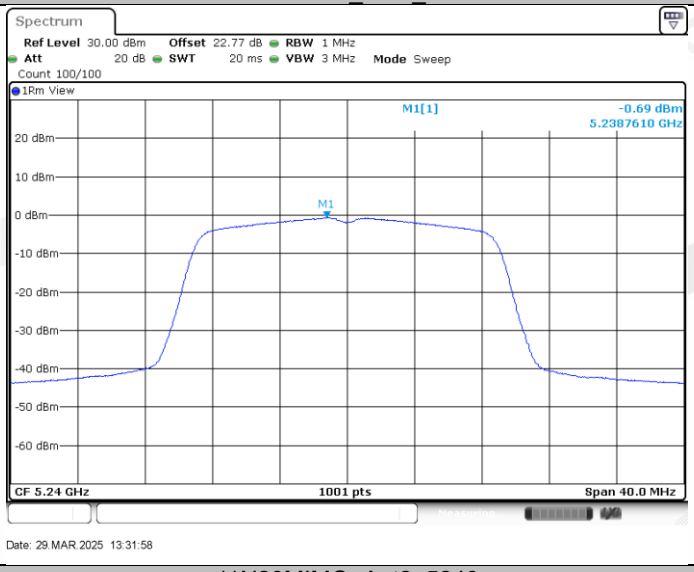
11N20MIMO_Ant1_5200



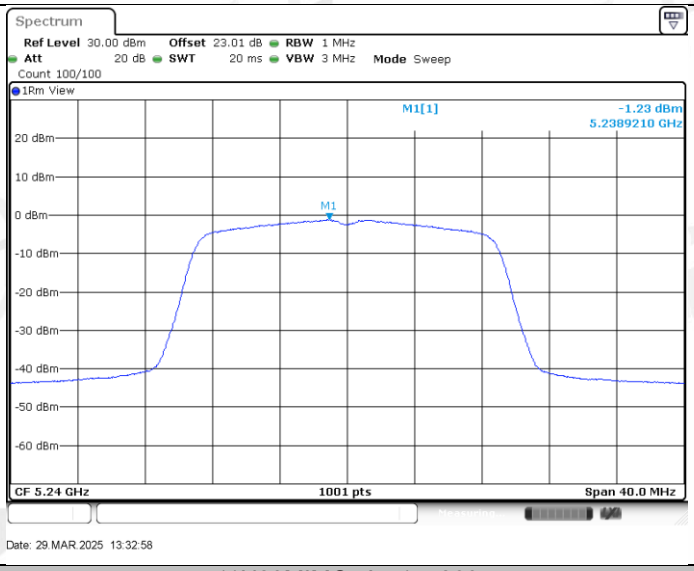
11N20MIMO_Ant2_5200



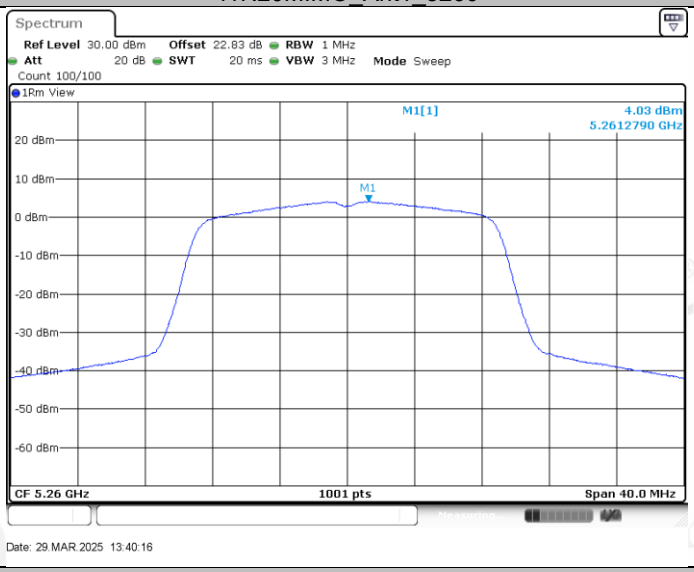
11N20MIMO_Ant1_5240



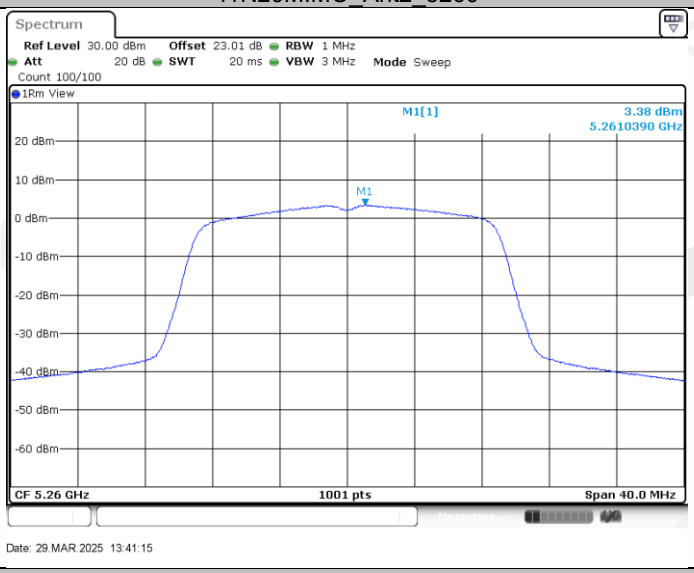
11N20MIMO_Ant2_5240



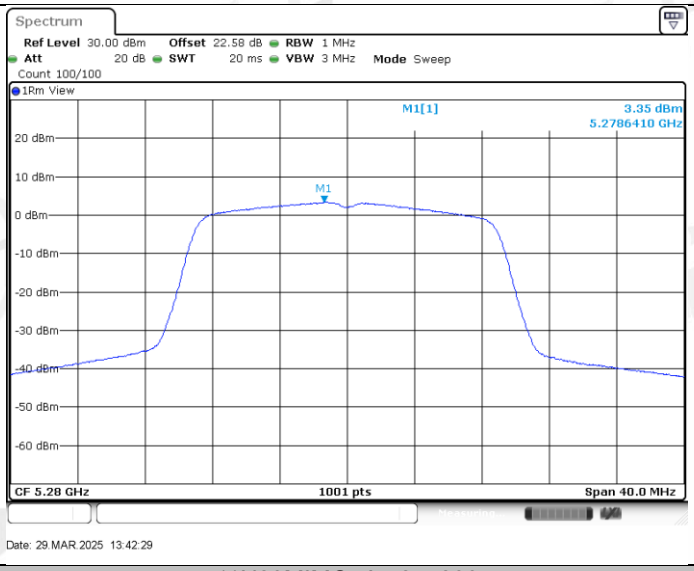
11N20MIMO_Ant1_5260



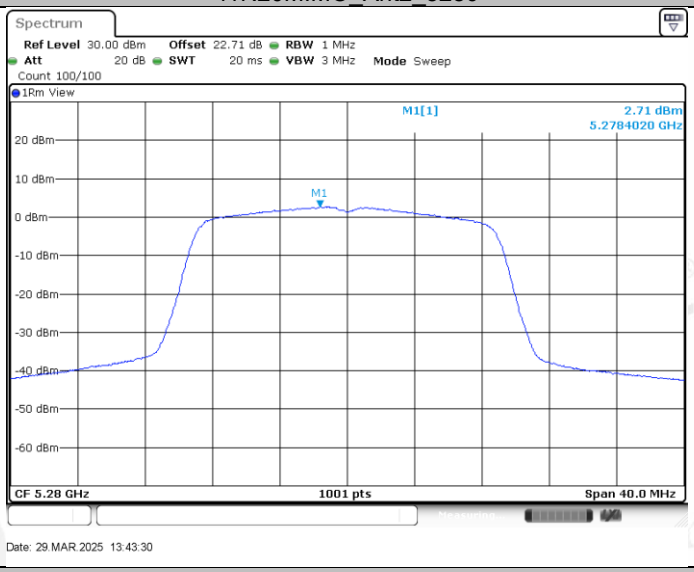
11N20MIMO_Ant2_5260



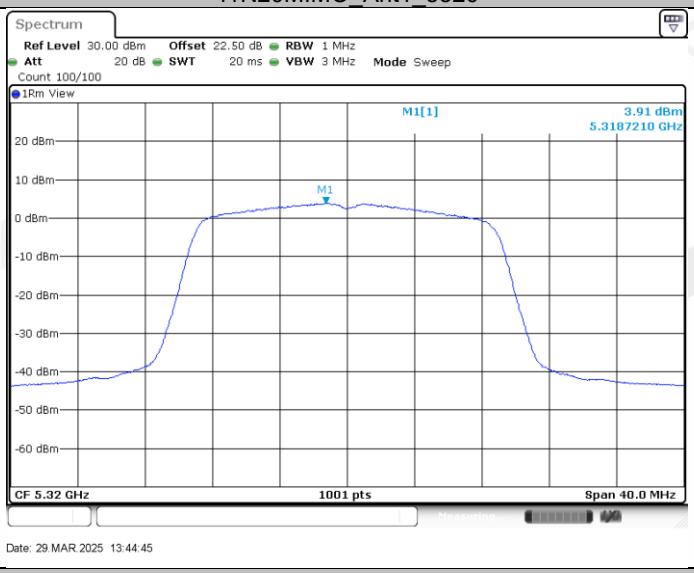
11N20MIMO_Ant1_5280



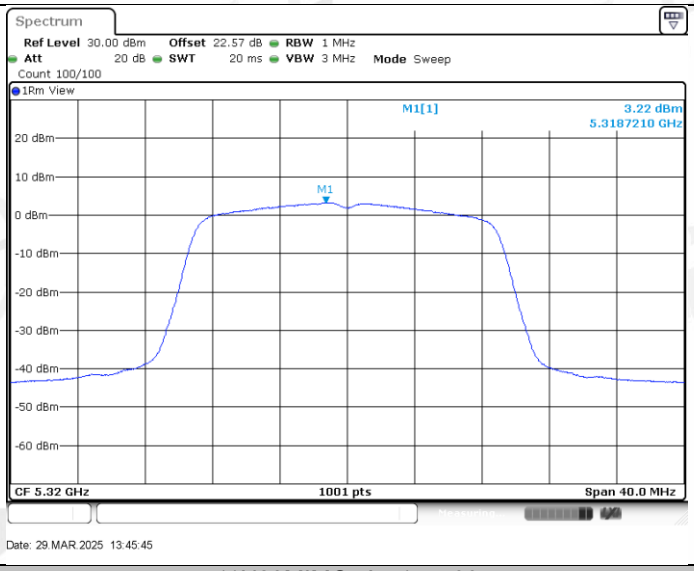
11N20MIMO_Ant2_5280



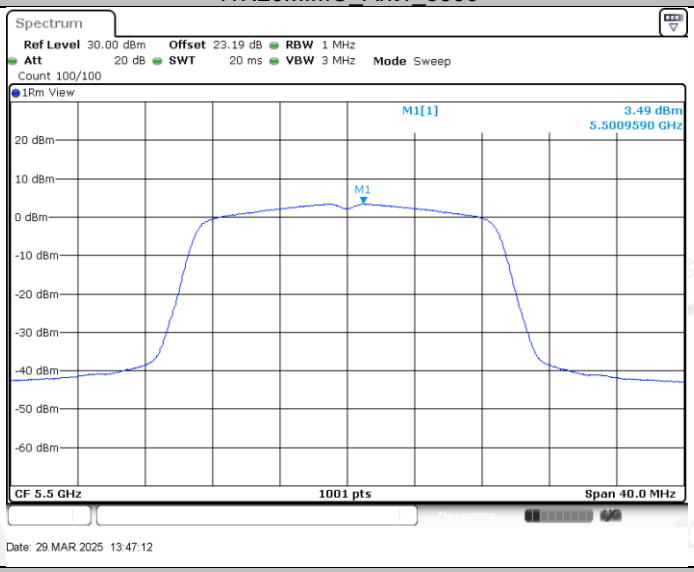
11N20MIMO_Ant1_5320



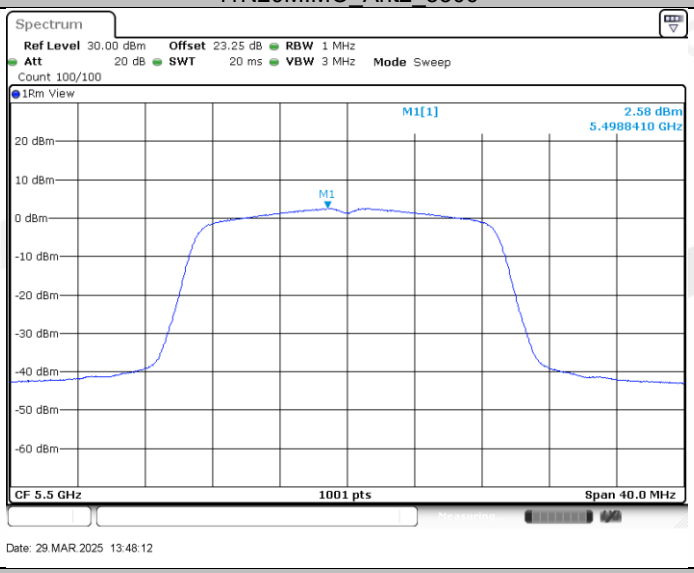
11N20MIMO_Ant2_5320



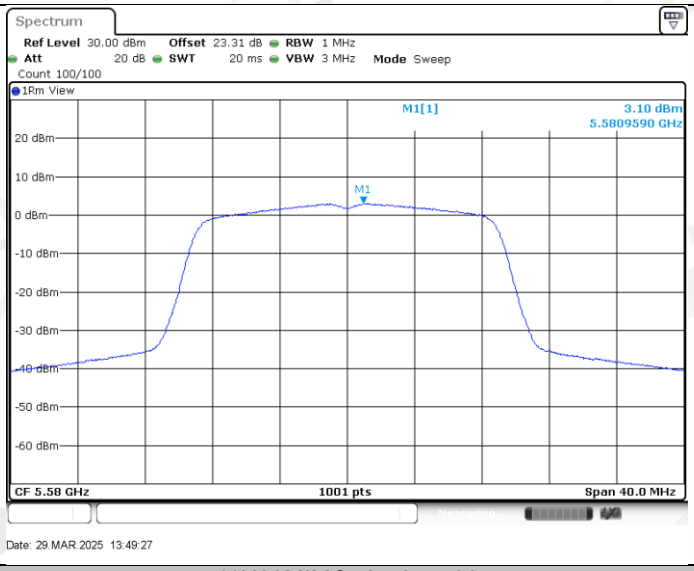
11N20MIMO_Ant1_5500



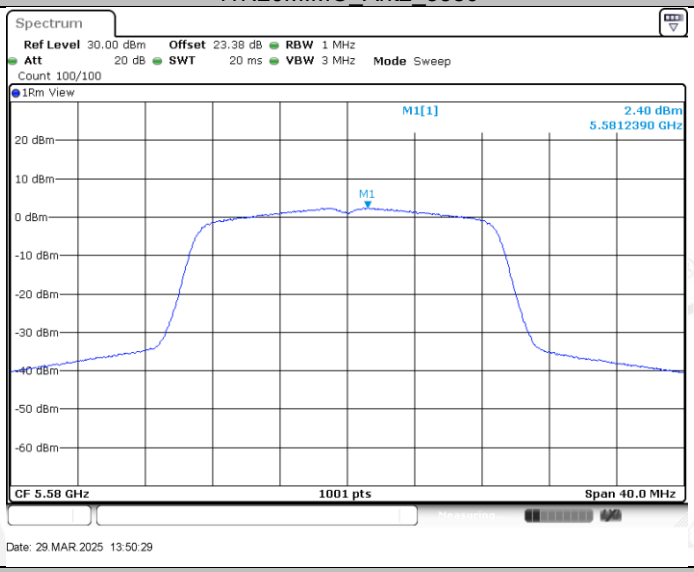
11N20MIMO_Ant2_5500



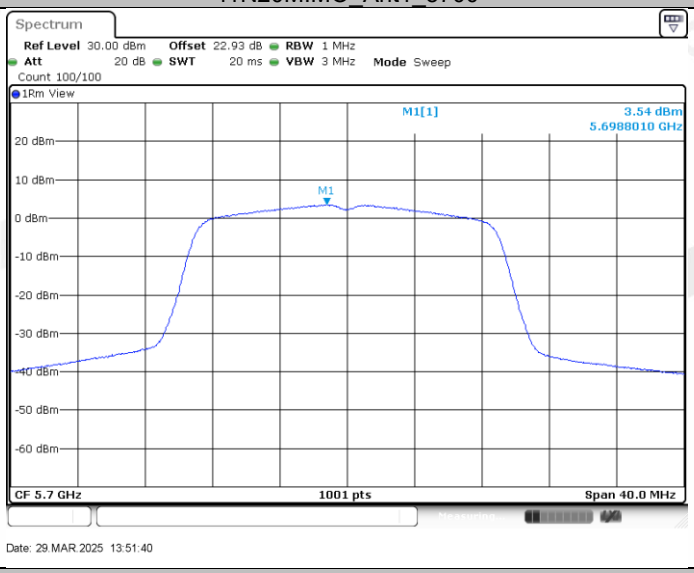
11N20MIMO_Ant1_5580



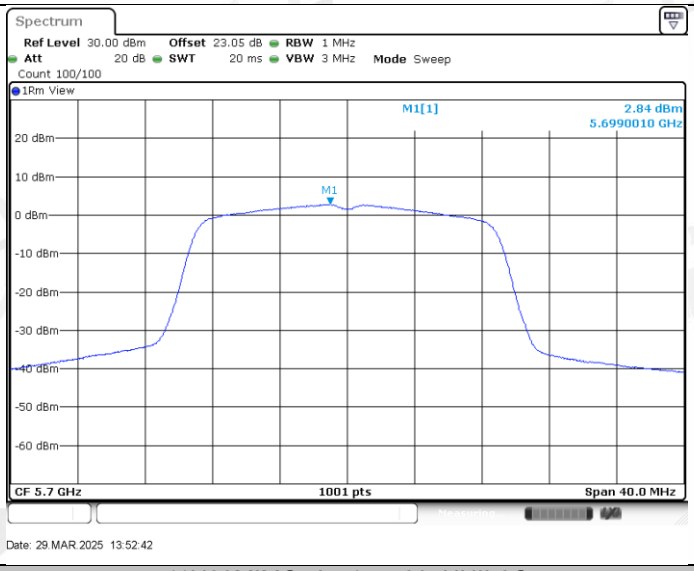
11N20MIMO_Ant2_5580



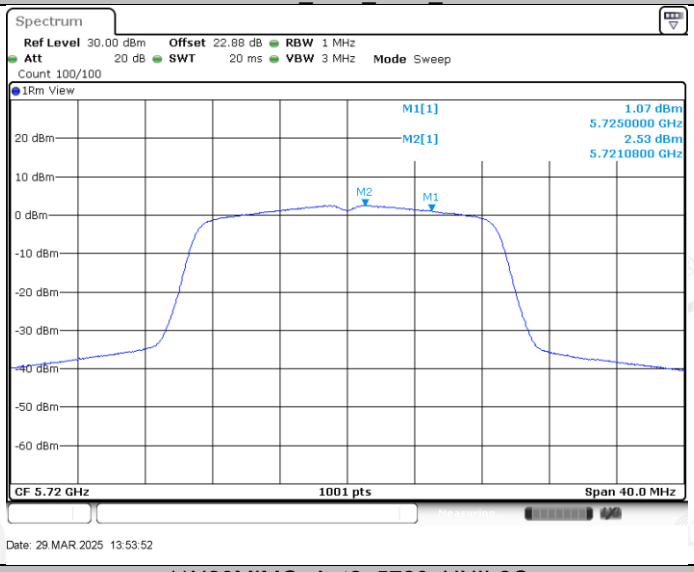
11N20MIMO_Ant1_5700



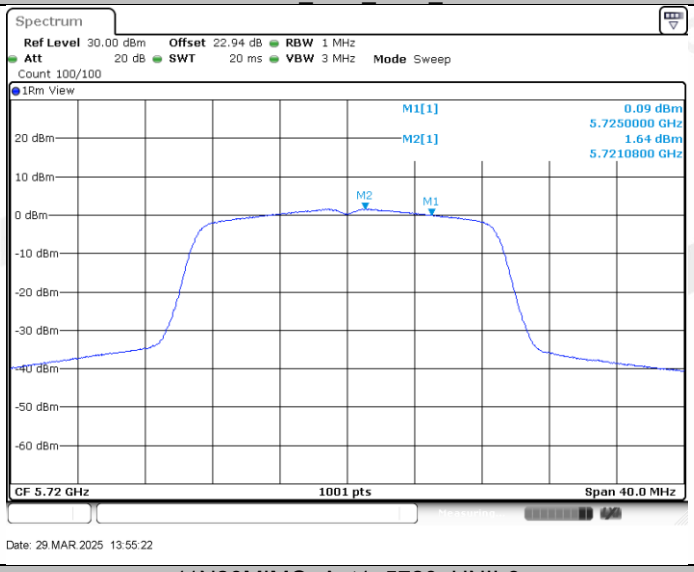
11N20MIMO_Ant2_5700



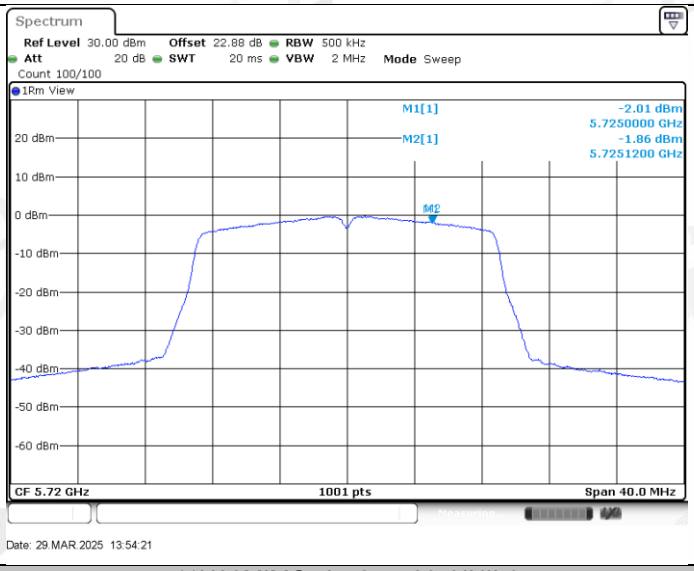
11N20MIMO_Ant1_5720_UNII-2C



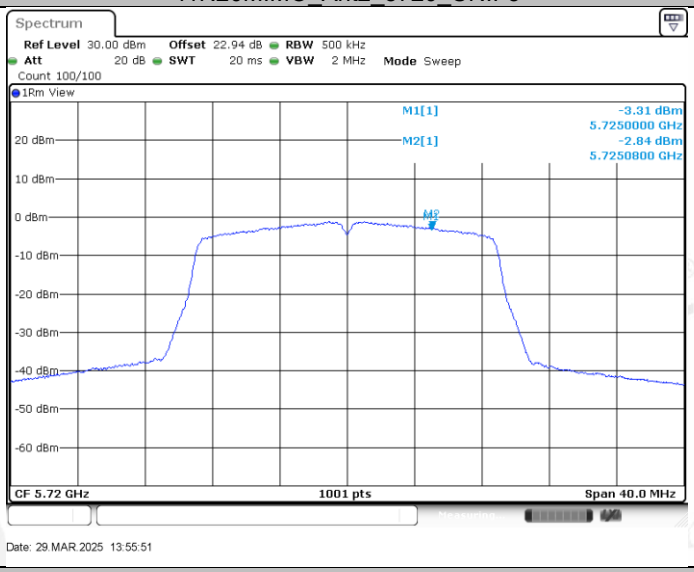
11N20MIMO_Ant2_5720_UNII-2C



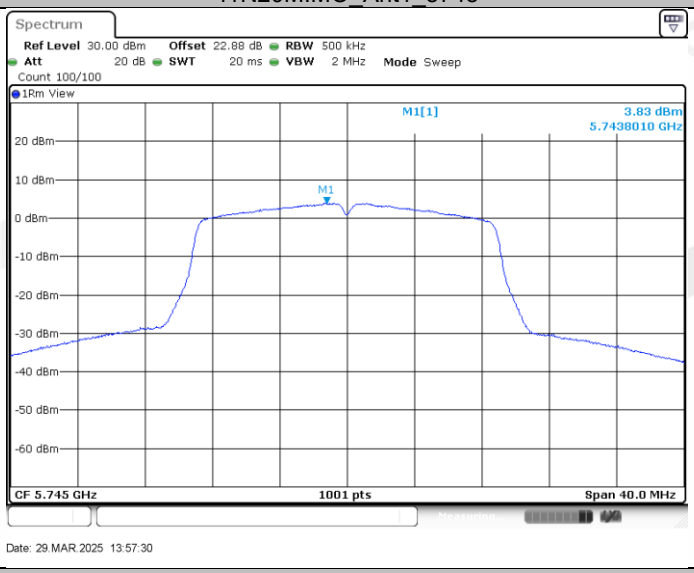
11N20MIMO_Ant1_5720_UNII-3



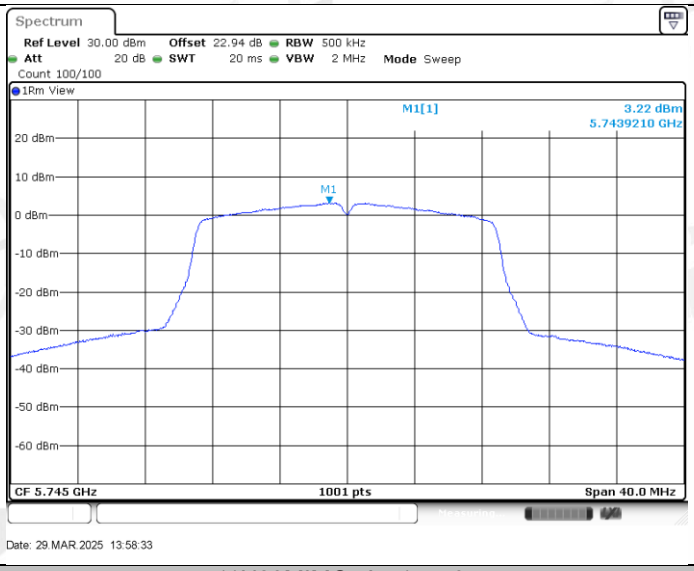
11N20MIMO_Ant2_5720_UNII-3



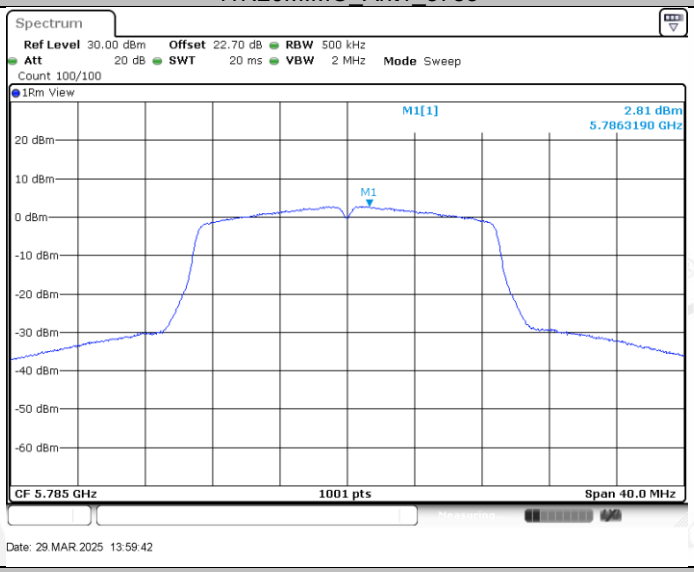
11N20MIMO_Ant1_5745



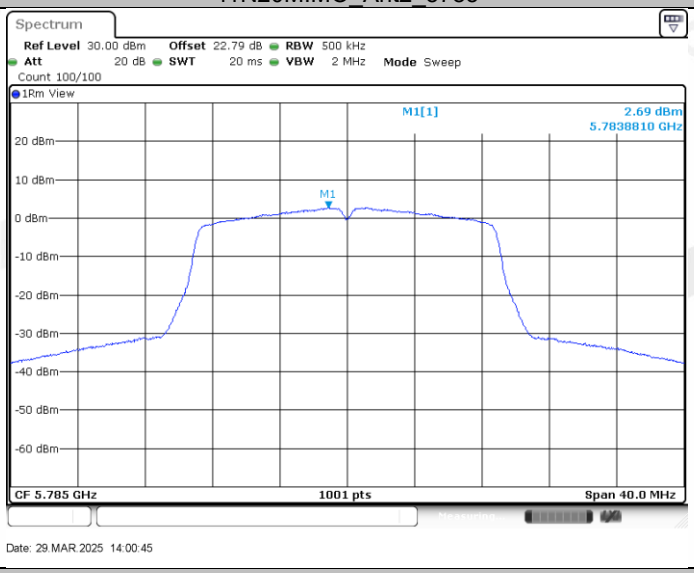
11N20MIMO_Ant2_5745



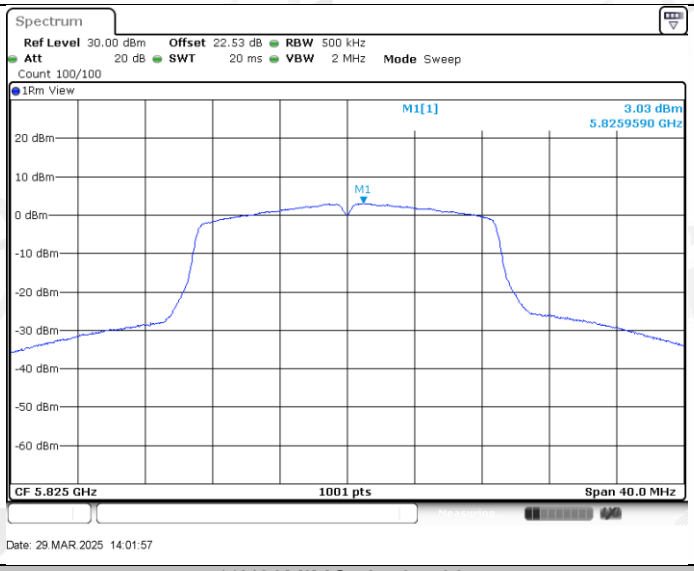
11N20MIMO_Ant1_5785



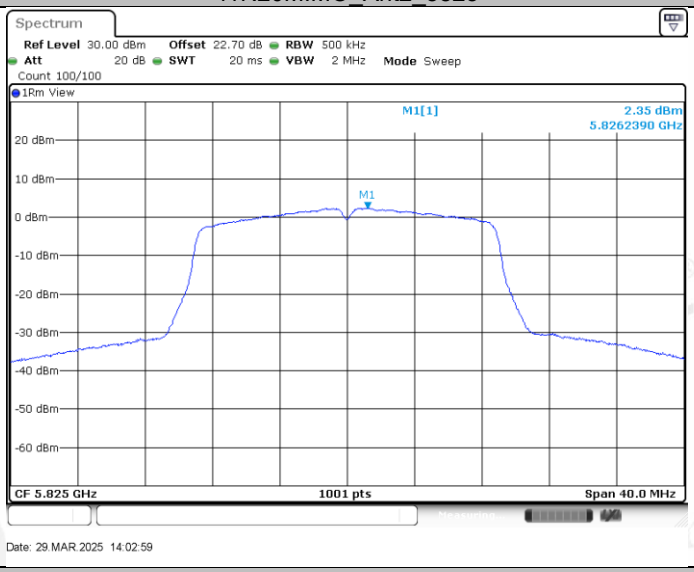
11N20MIMO_Ant2_5785



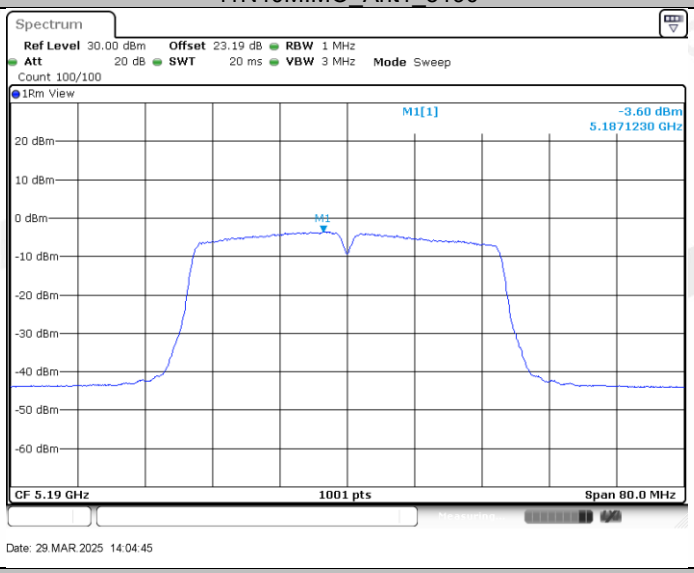
11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190