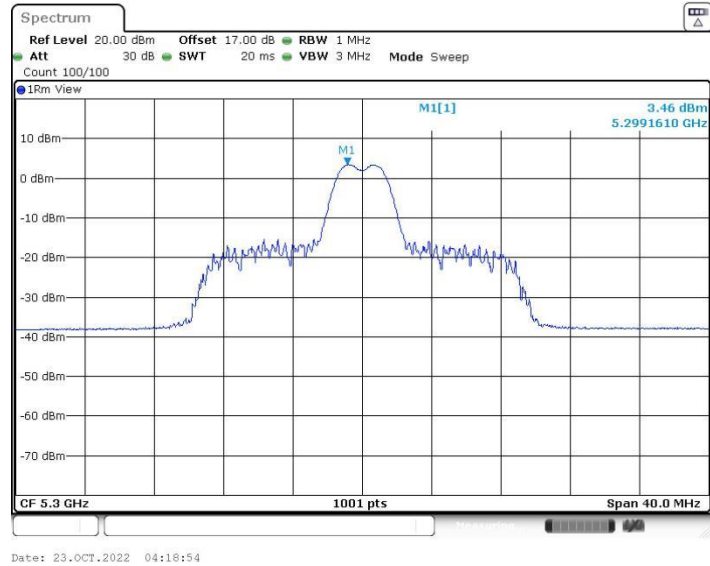
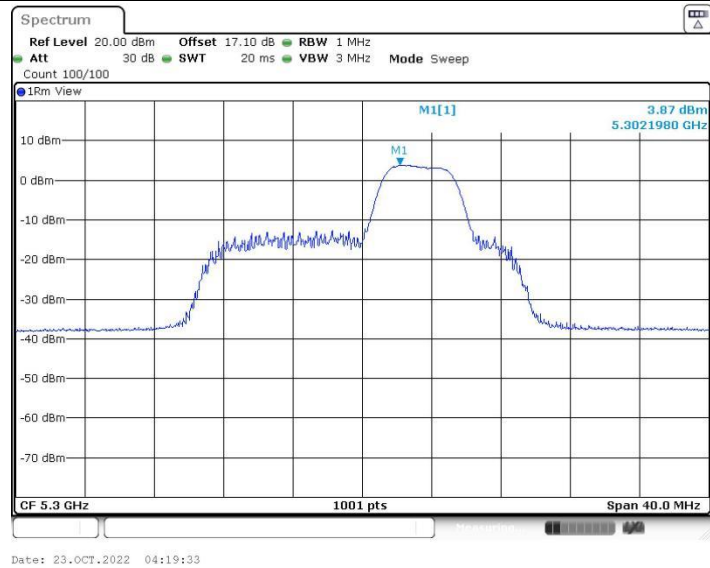




11AX20MIMO_Ant1_5300_26Tone_RU4

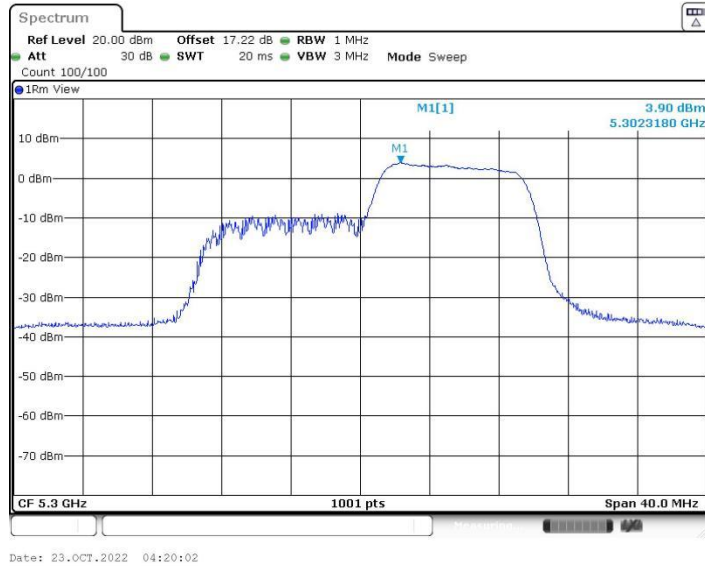


11AX20MIMO_Ant1_5300_52Tone_RU39

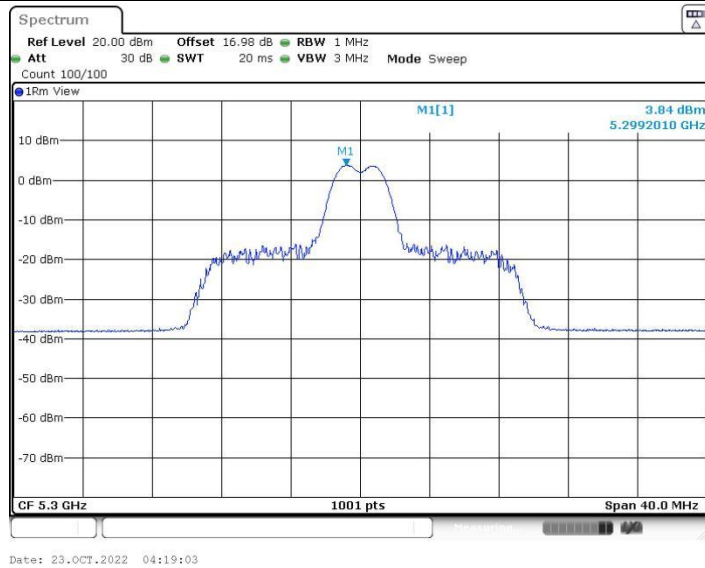




11AX20MIMO_Ant1_5300_106Tone_RU54

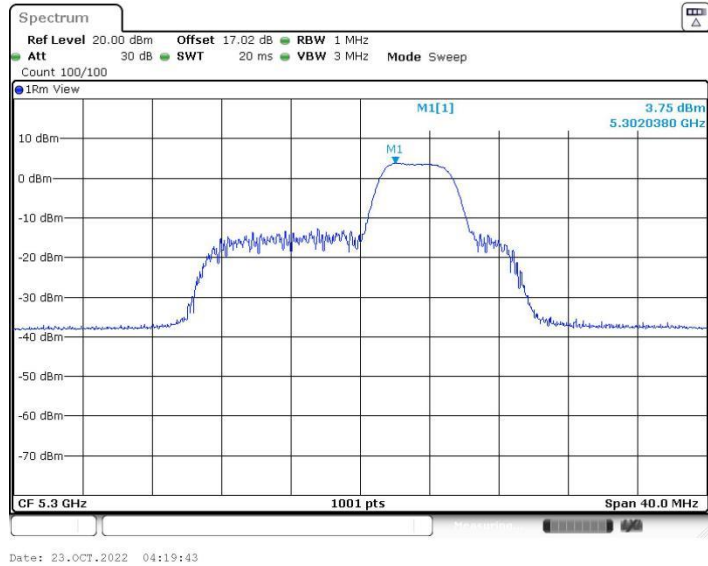


11AX20MIMO_Ant2_5300_26Tone_RU4

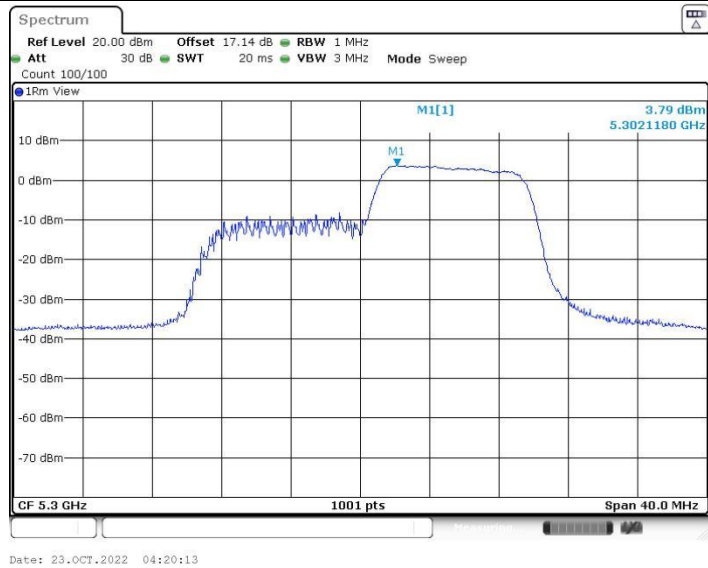




11AX20MIMO_Ant2_5300_52Tone_RU39

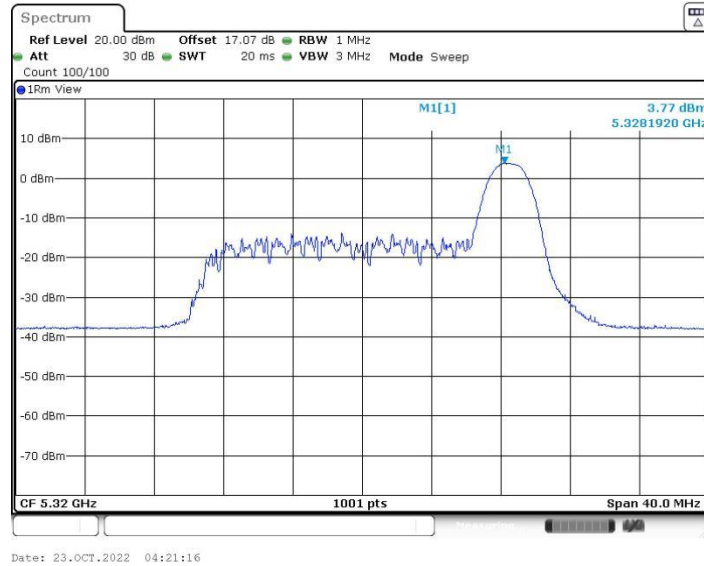


11AX20MIMO_Ant2_5300_106Tone_RU54

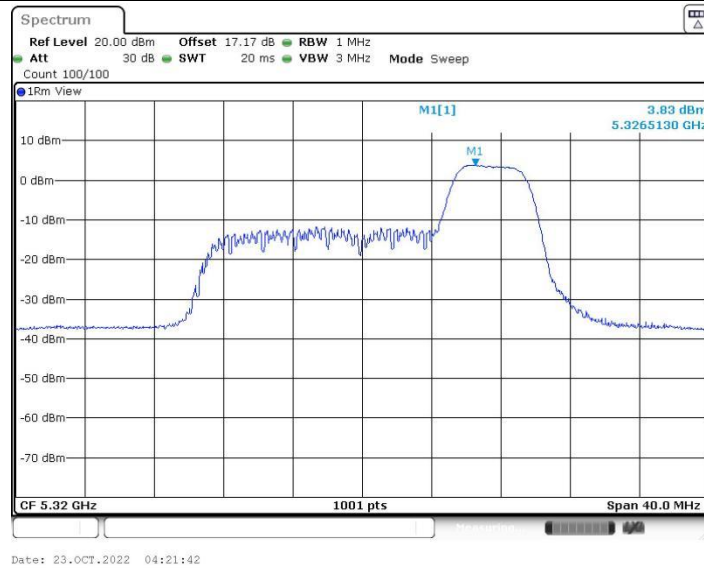




11AX20MIMO_Ant1_5320_26Tone_RU8

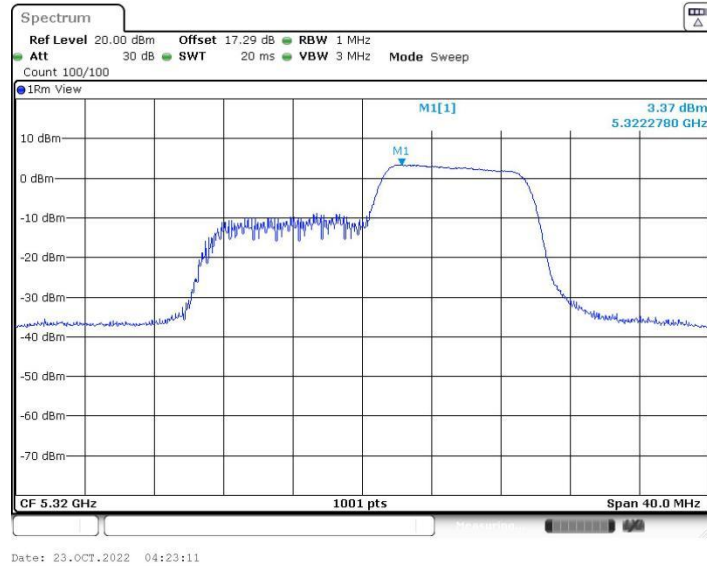


11AX20MIMO_Ant1_5320_52Tone_RU40

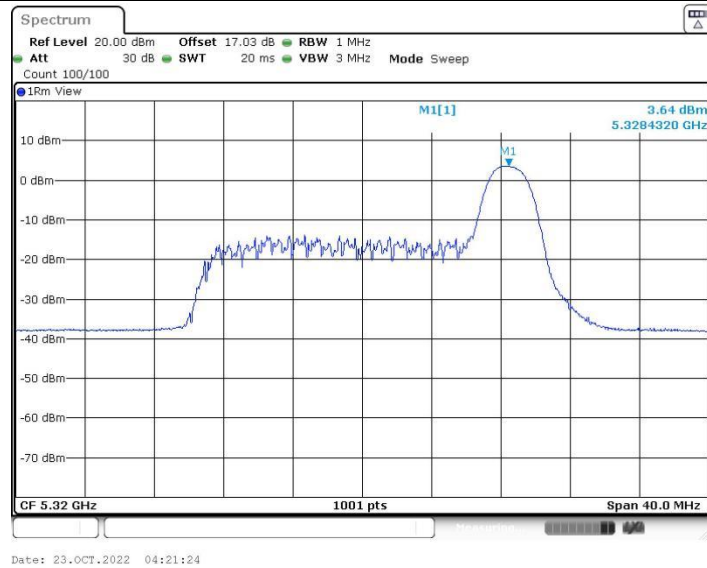




11AX20MIMO_Ant1_5320_106Tone_RU54

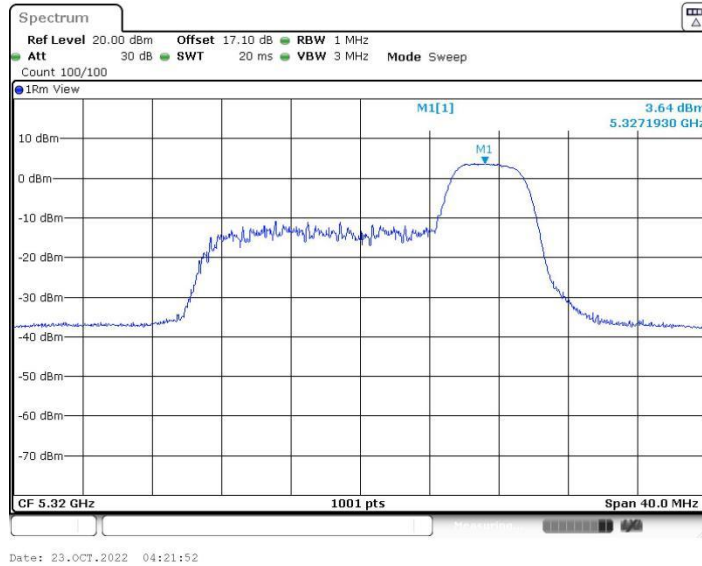


11AX20MIMO_Ant2_5320_26Tone_RU8

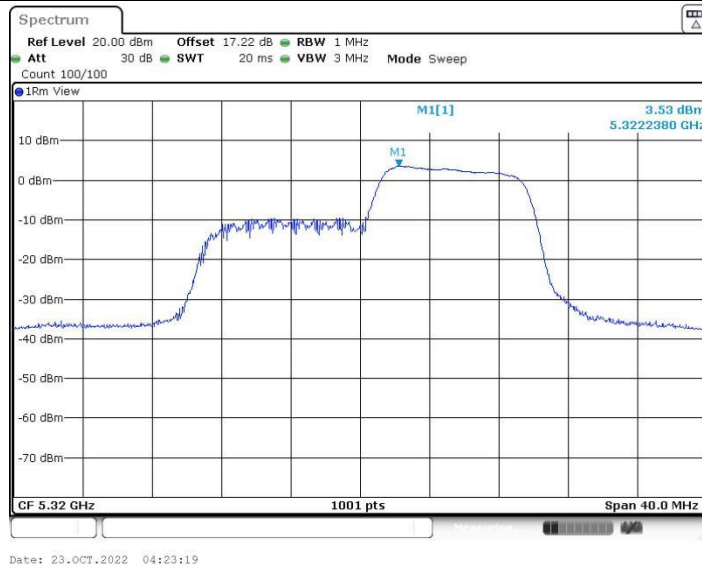




11AX20MIMO_Ant2_5320_52Tone_RU40

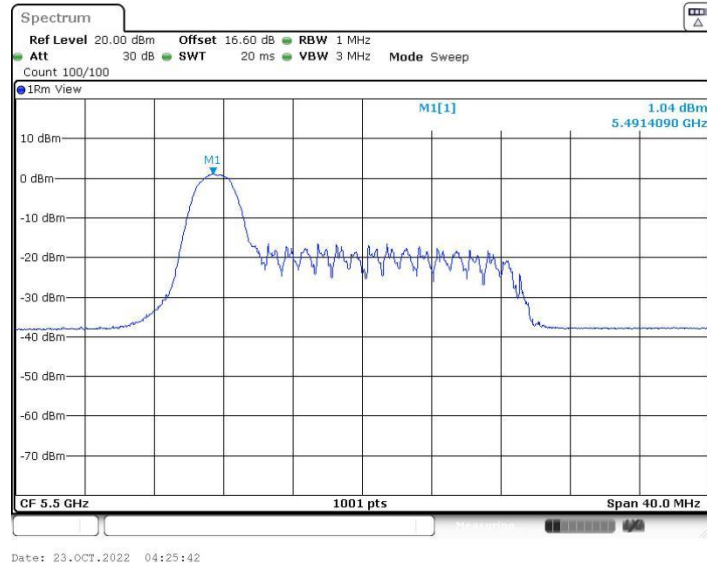


11AX20MIMO_Ant2_5320_106Tone_RU54

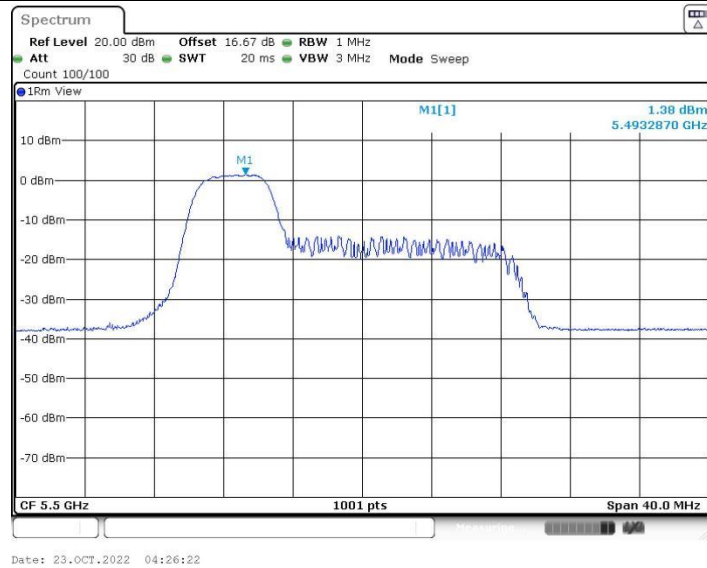




11AX20MIMO_Ant1_5500_26Tone_RU0



11AX20MIMO_Ant1_5500_52Tone_RU37

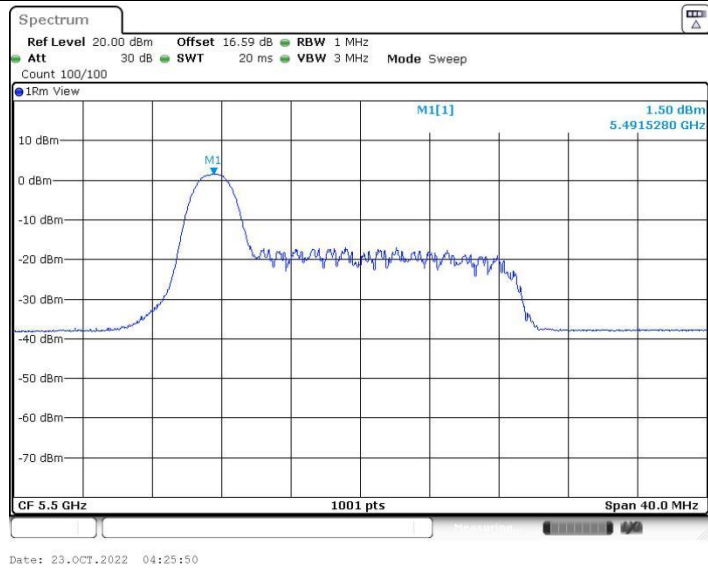




11AX20MIMO_Ant1_5500_106Tone_RU53

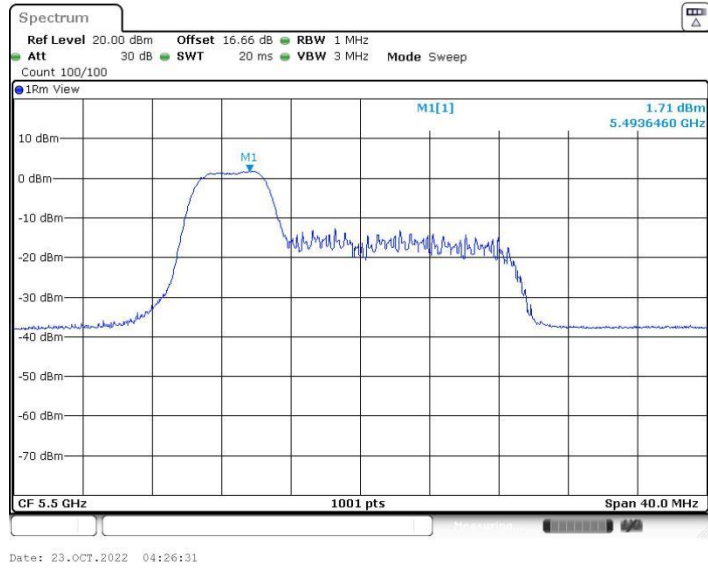


11AX20MIMO_Ant2_5500_26Tone_RU0





11AX20MIMO_Ant2_5500_52Tone_RU37

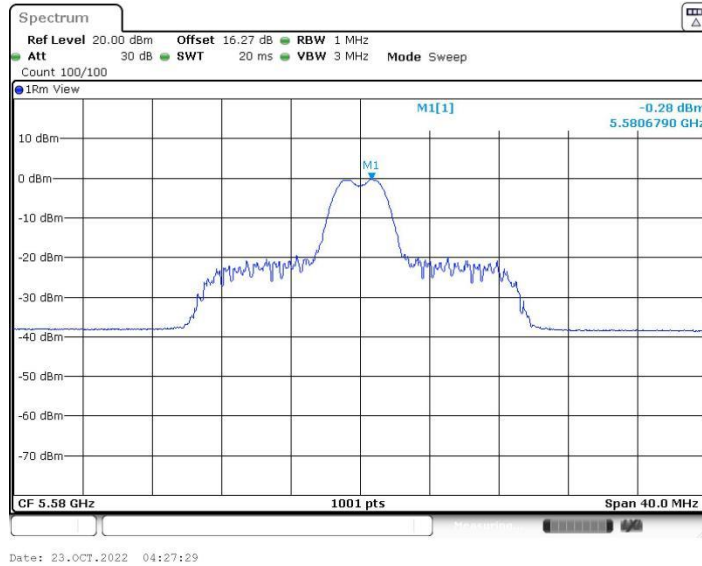


11AX20MIMO_Ant2_5500_106Tone_RU53

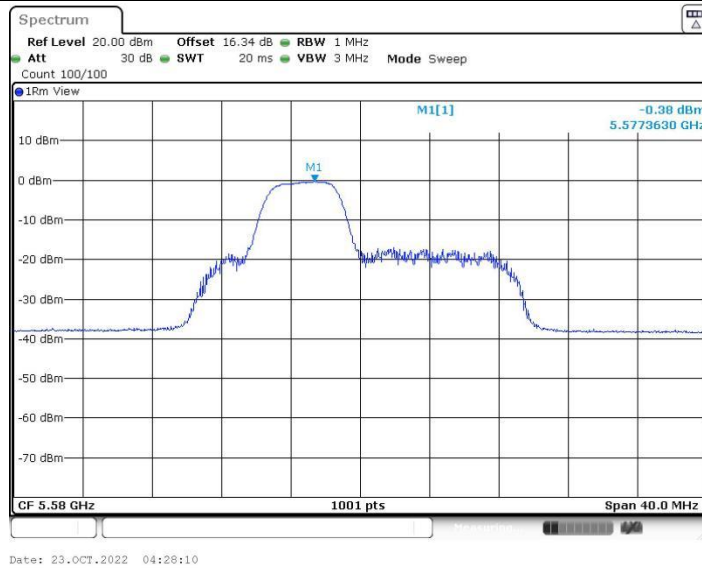




11AX20MIMO_Ant1_5580_26Tone_RU4



11AX20MIMO_Ant1_5580_52Tone_RU38

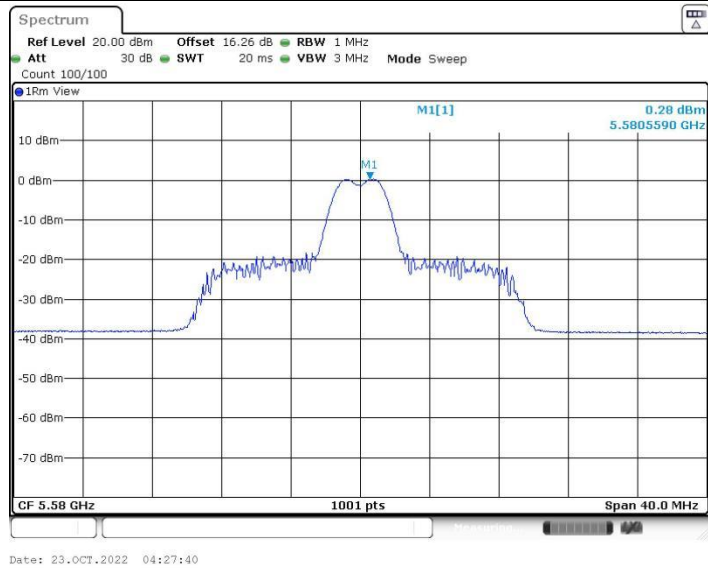




11AX20MIMO_Ant1_5580_106Tone_RU53

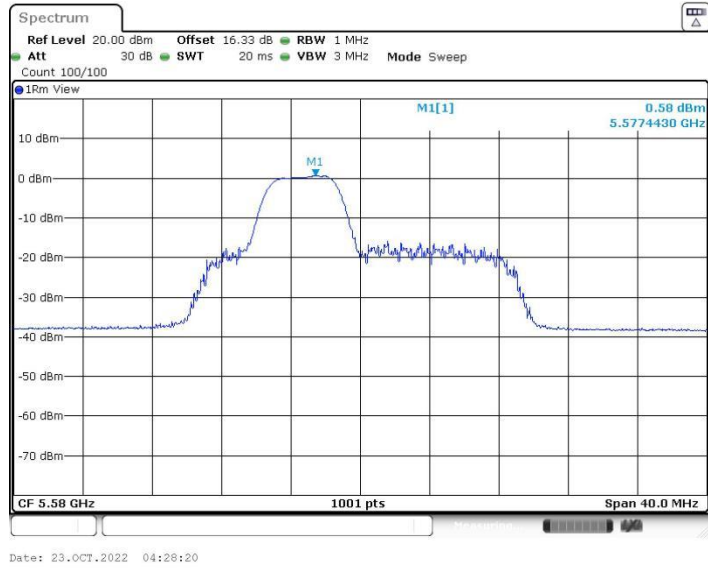


11AX20MIMO_Ant2_5580_26Tone_RU4





11AX20MIMO_Ant2_5580_52Tone_RU38

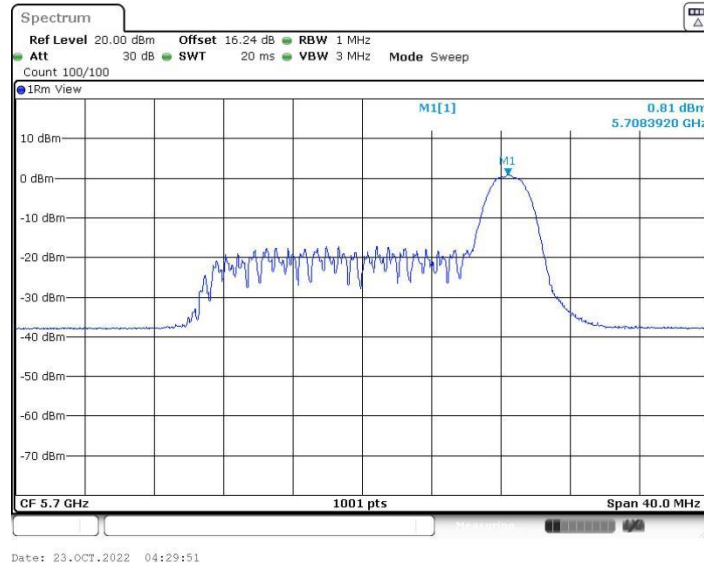


11AX20MIMO_Ant2_5580_106Tone_RU53

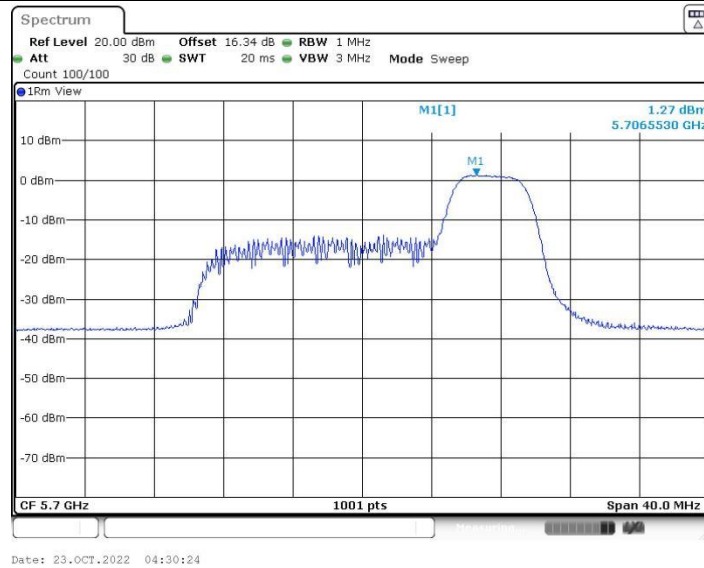




11AX20MIMO_Ant1_5700_26Tone_RU8

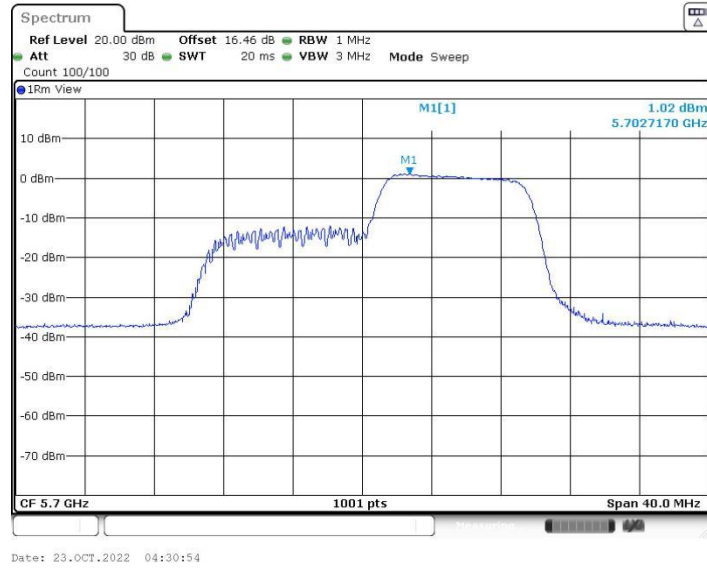


11AX20MIMO_Ant1_5700_52Tone_RU40

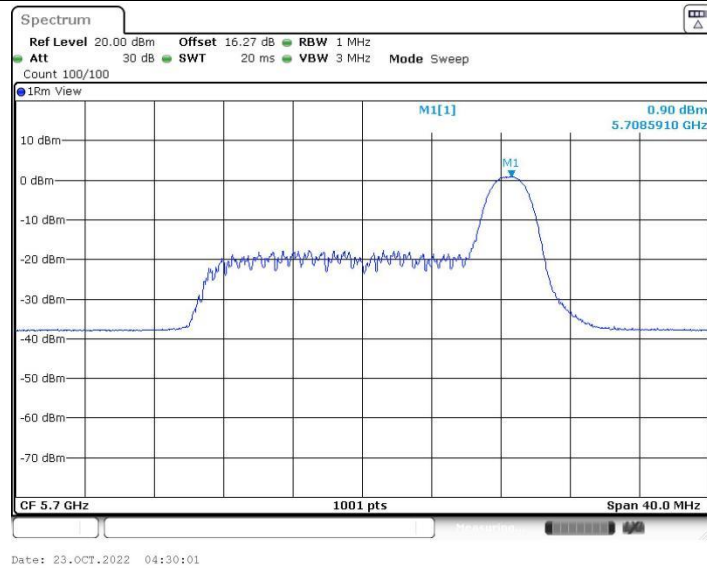




11AX20MIMO_Ant1_5700_106Tone_RU54

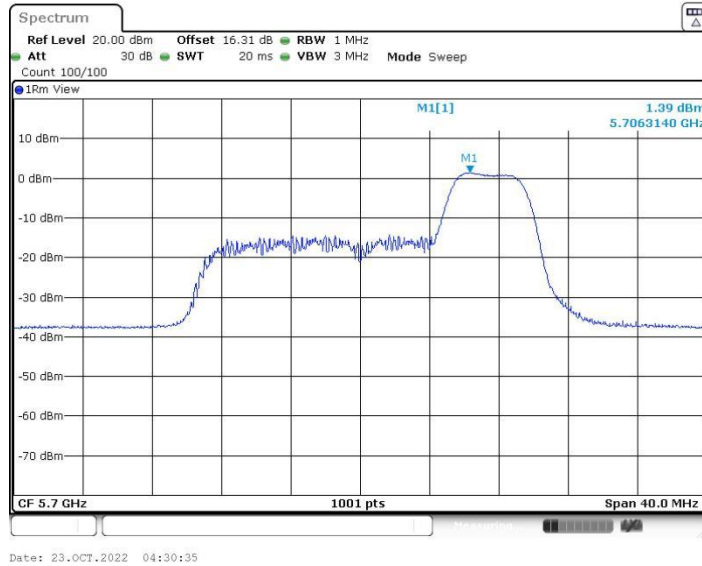


11AX20MIMO_Ant2_5700_26Tone_RU8

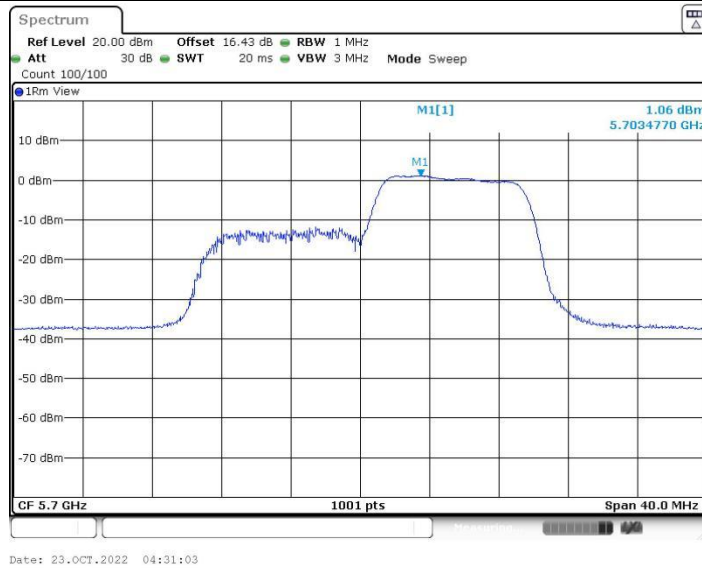




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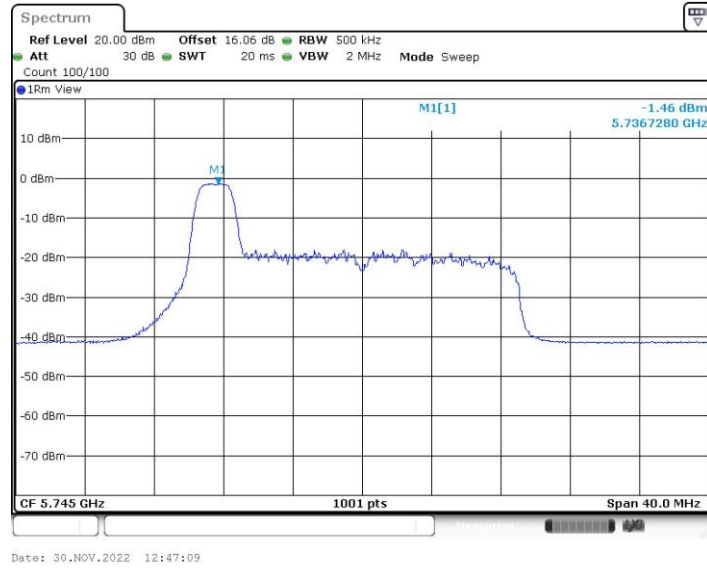


11AX20MIMO_Ant2_5700_106Tone_RU54

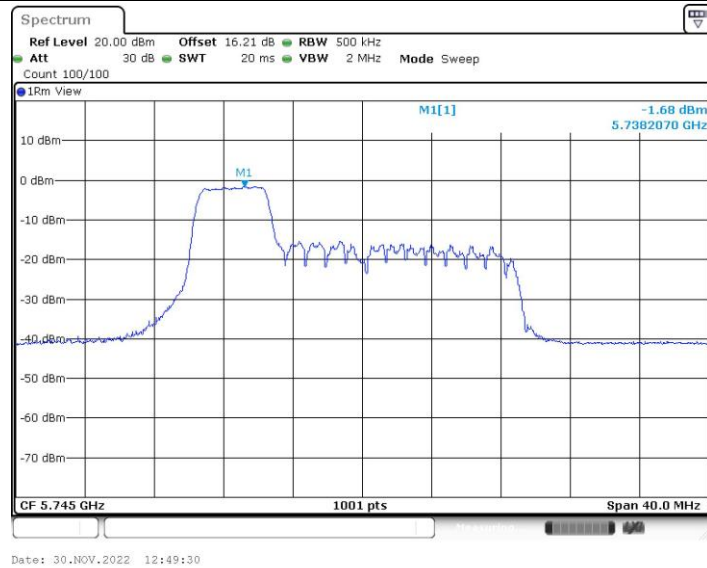




11AX20MIMO_Ant1_5745_26Tone_RU0



11AX20MIMO_Ant1_5745_52Tone_RU37

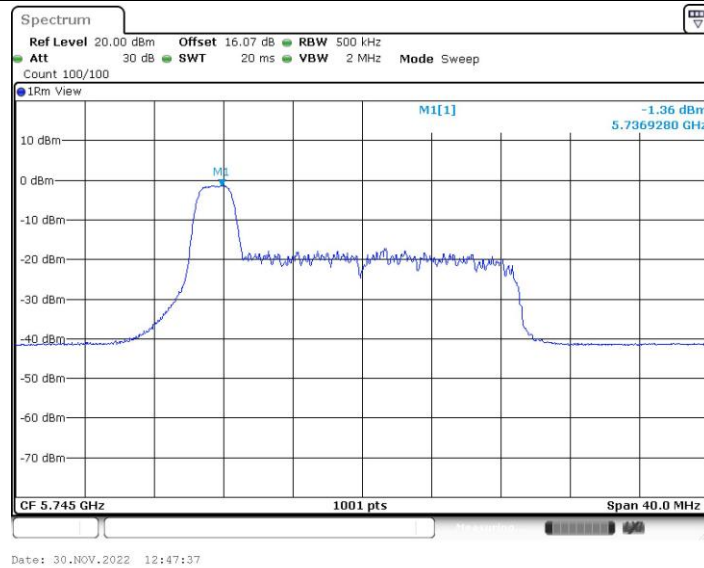




11AX20MIMO_Ant1_5745_106Tone_RU53

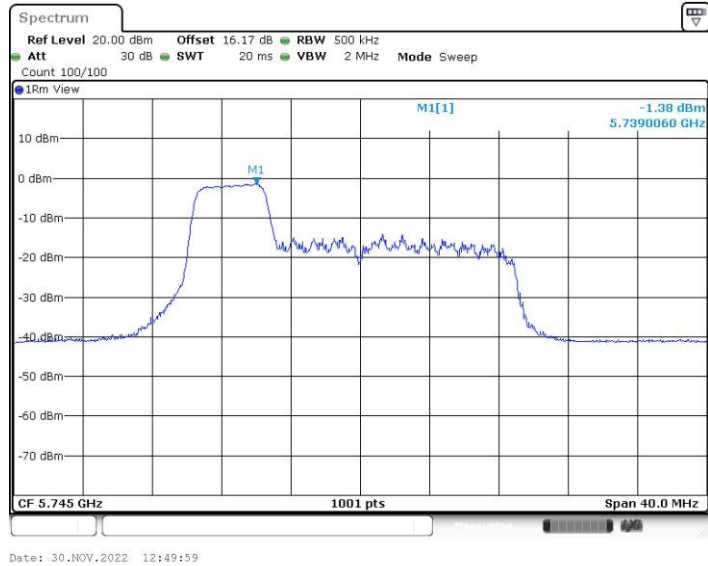


11AX20MIMO_Ant2_5745_26Tone_RU0





11AX20MIMO_Ant2_5745_52Tone_RU37

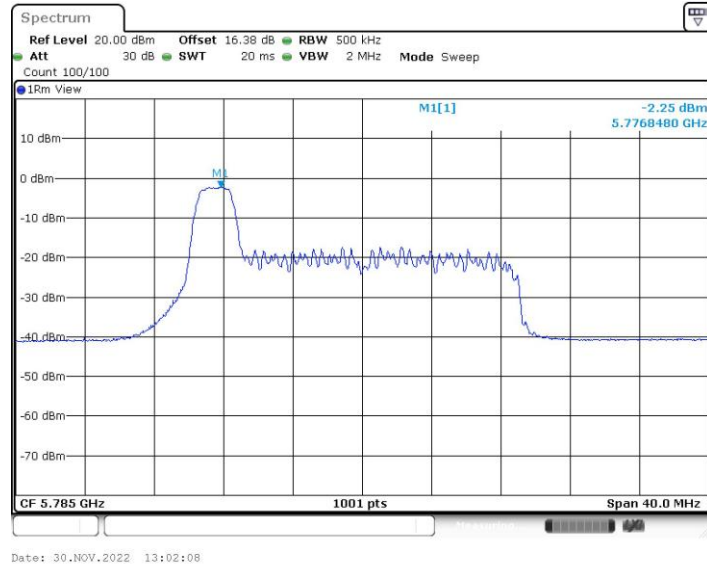


11AX20MIMO_Ant2_5745_106Tone_RU53





11AX20MIMO_Ant1_5785_26Tone_RU0



11AX20MIMO_Ant1_5785_52Tone_RU37

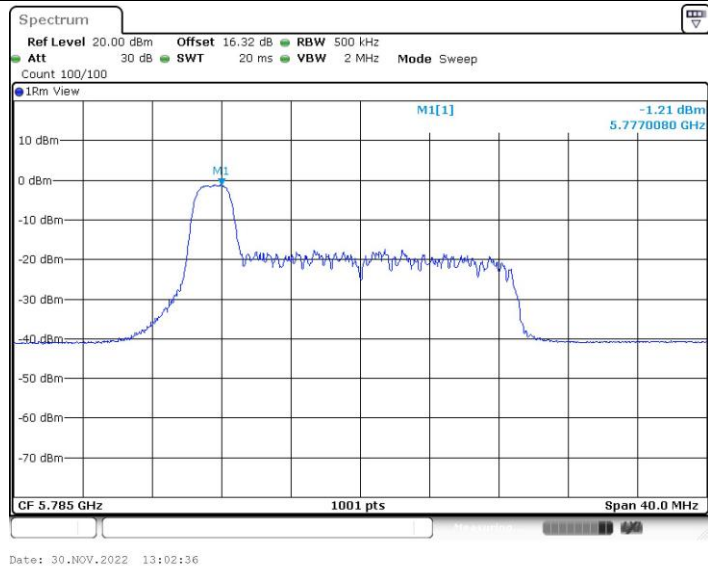


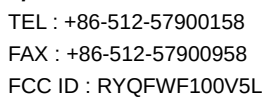
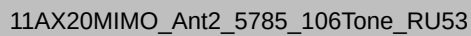


11AX20MIMO_Ant1_5785_106Tone_RU53



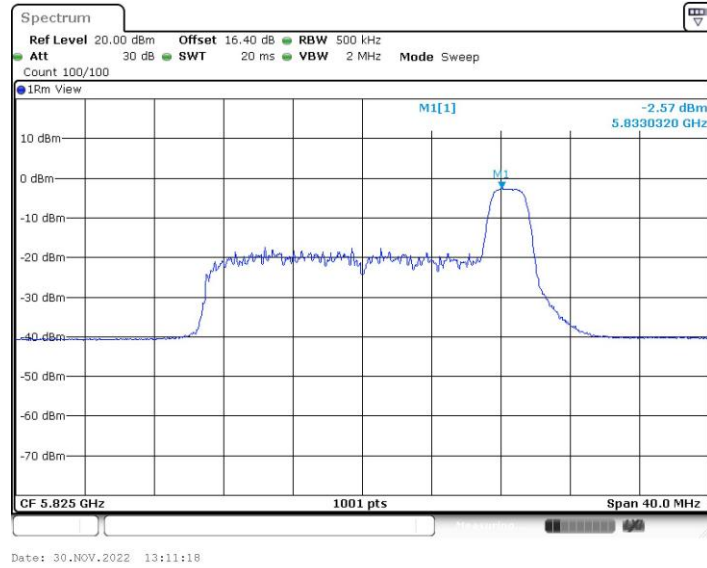
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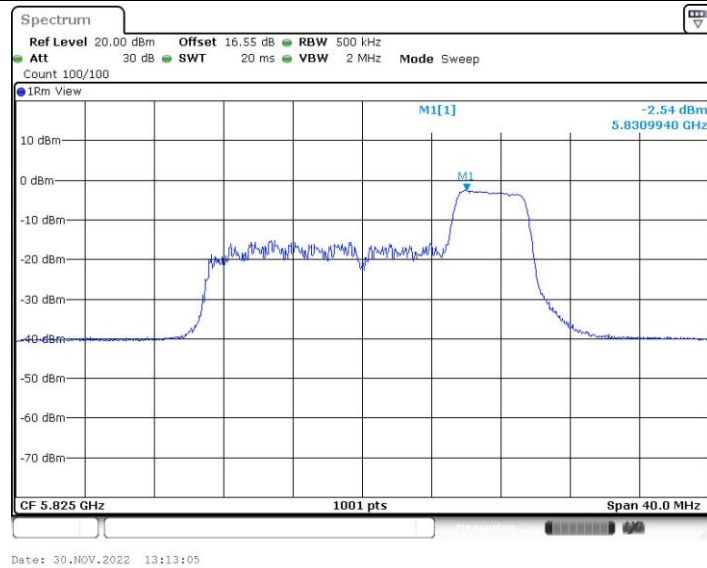




11AX20MIMO_Ant1_5825_26Tone_RU8



11AX20MIMO_Ant1_5825_52Tone_RU40

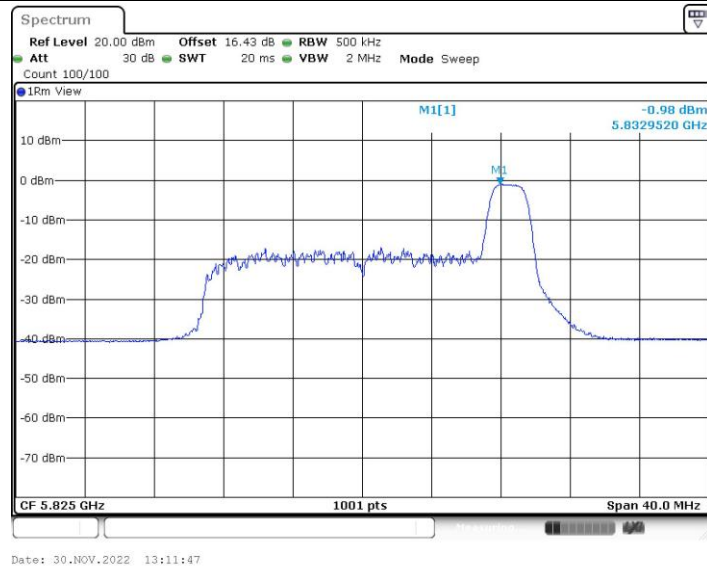




11AX20MIMO_Ant1_5825_106Tone_RU54



11AX20MIMO_Ant2_5825_26Tone_RU8





11AX20MIMO_Ant2_5825_52Tone_RU40

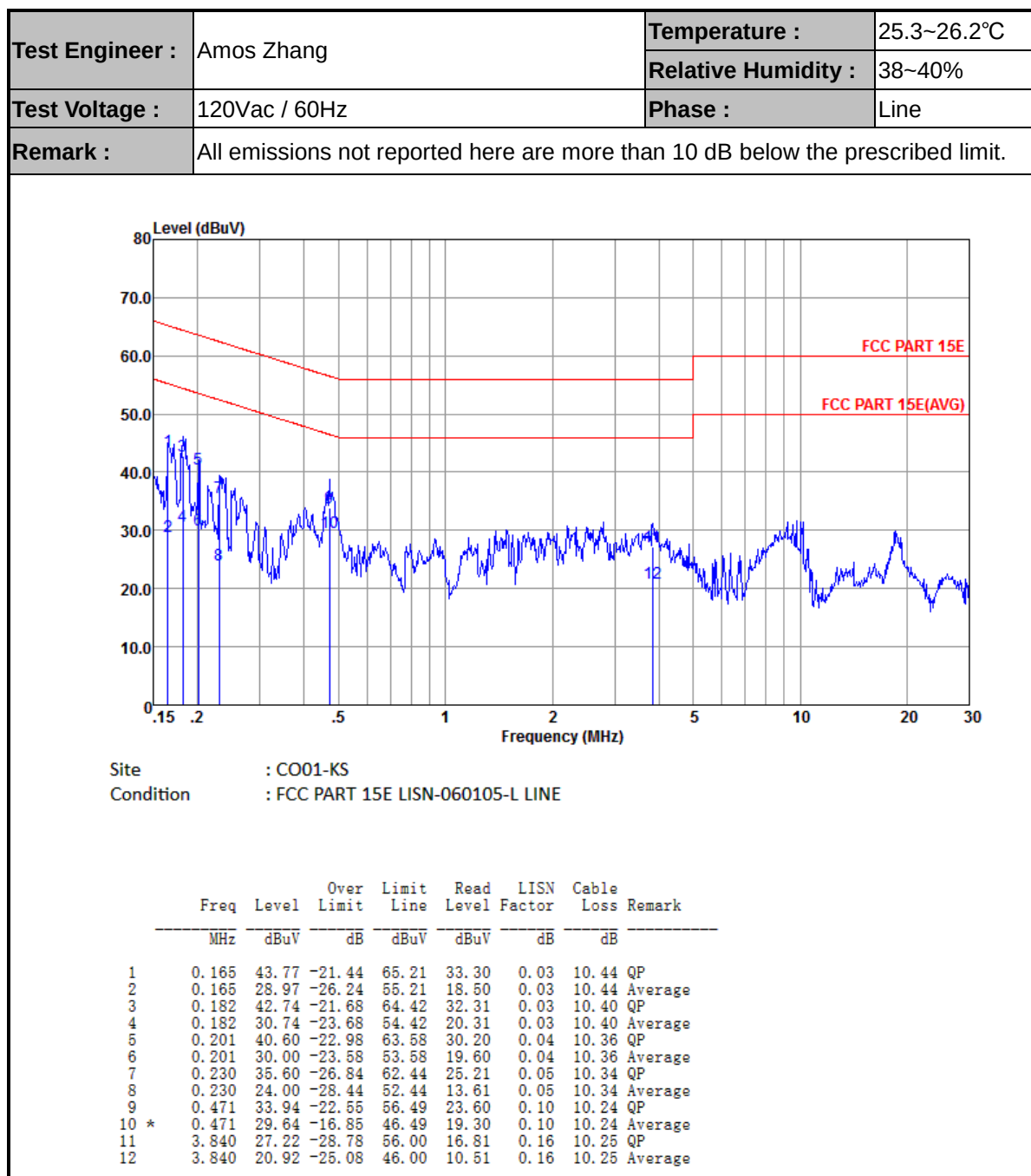


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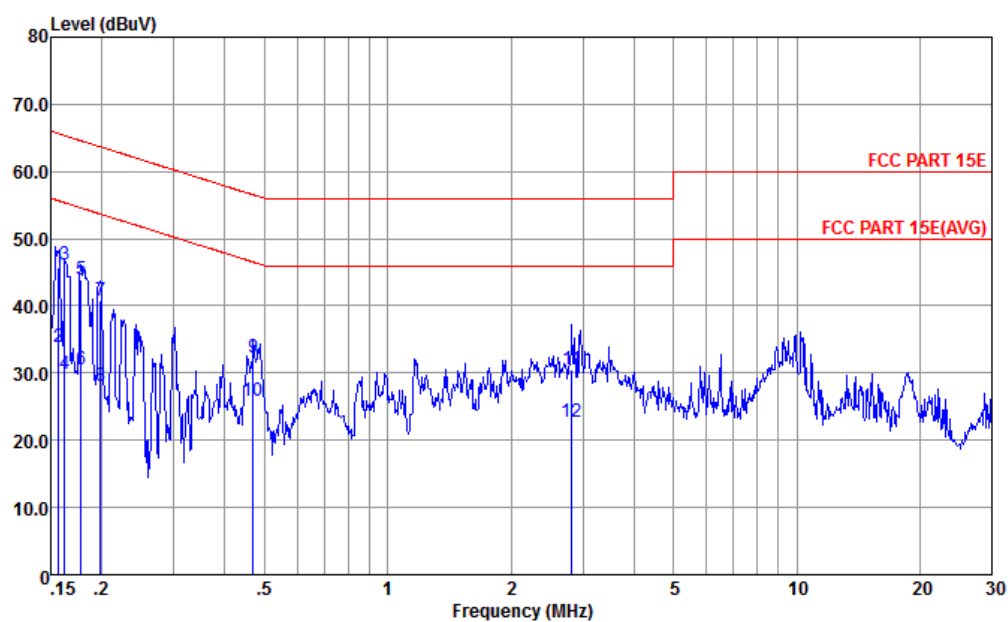


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15E LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.156	45.77	-19.88	65.65	35.20	0.11	10.46	QP
2	0.156	33.87	-21.78	55.65	23.30	0.11	10.46	Average
3 *	0.162	46.15	-19.19	65.34	35.59	0.11	10.45	QP
4	0.162	29.85	-25.49	55.34	19.29	0.11	10.45	Average
5	0.178	43.81	-20.78	64.59	33.30	0.10	10.41	QP
6	0.178	30.61	-23.98	54.59	20.10	0.10	10.41	Average
7	0.199	40.67	-23.00	63.67	30.20	0.10	10.37	QP
8	0.199	27.97	-25.70	53.67	17.50	0.10	10.37	Average
9	0.469	32.25	-24.29	56.54	21.90	0.11	10.24	QP
10	0.469	25.85	-20.69	46.54	15.50	0.11	10.24	Average
11	2.824	30.59	-25.41	56.00	20.20	0.15	10.24	QP
12	2.824	22.69	-23.31	46.00	12.30	0.15	10.24	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

UNII-1/2A/2C

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 140 5700MHz	*	5698	103.69	-	-	92.58	35.13	12.36	36.38	331	102	P	H
		5698	96.14	-	-	85.03	35.13	12.36	36.38	331	102	A	H
		5725.88	51.12	-17.18	68.3	39.93	35.17	12.4	36.38	331	102	P	H
	*	5704	115.49	-	-	104.34	35.15	12.38	36.38	300	154	P	V
		5704	106.32	-	-	95.17	35.15	12.38	36.38	300	154	A	V
		5725.88	57.3	-11	68.3	46.11	35.17	12.4	36.38	300	154	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1/2A/2C

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 140 5700MHz		11400	59.53	-14.47	74	64.58	38.74	17.7	61.49	302	183	P	H
		11400	53.74	-0.26	54	58.79	38.74	17.7	61.49	302	183	A	H
		17087	51.66	-16.64	68.3	51.21	41.97	22.03	63.55	300	0	P	H
		11400	58.78	-15.22	74	63.83	38.74	17.7	61.49	295	172	P	V
		11400	51.14	-2.86	54	56.19	38.74	17.7	61.49	295	172	A	V
		17098	55.58	-12.72	68.3	55.12	41.96	22.04	63.54	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 100 5260MHz		5363.6	50.6	-23.4	74	40.1	34.79	12.06	36.35	303	221	P	H
		5468.4	49.85	-18.45	68.3	39.18	34.87	12.16	36.36	303	221	P	H
		5456.72	41.04	-12.96	54	30.4	34.86	12.14	36.36	303	221	A	H
		5494	102.79	-	-	92.1	34.89	12.17	36.37	303	221	P	H
		5494	94.98	-	-	84.29	34.89	12.17	36.37	303	221	A	H
		5411.92	54.12	-19.88	74	43.54	34.83	12.11	36.36	220	213	P	V
		5468.56	52.12	-16.18	68.3	41.45	34.87	12.16	36.36	220	213	P	V
		5411.92	45.85	-8.15	54	35.27	34.83	12.11	36.36	220	213	A	V
		5494	111.63	-	-	100.94	34.89	12.17	36.37	220	213	P	V
		5494	105.64	-	-	94.95	34.89	12.17	36.37	220	213	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 52/40 CH 48 5240MHz		5351.22	50.22	-23.78	74	39.74	34.78	12.05	36.35	365	150	P	H
		5372.82	40.93	-13.07	54	30.43	34.79	12.06	36.35	365	150	A	H
		5248	103.34	-	-	93.02	34.7	11.96	36.34	365	150	P	H
		5248	96.94	-	-	86.62	34.7	11.96	36.34	365	150	A	H
		5369.22	51.86	-22.14	74	41.36	34.79	12.06	36.35	273	183	P	V
		5367.24	44.13	-9.87	54	33.63	34.79	12.06	36.35	273	183	A	V
		5248	114.22	-	-	103.9	34.7	11.96	36.34	273	183	P	V
		5248	107.97	-	-	97.65	34.7	11.96	36.34	273	183	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/53 CH 100 5500MHz		5417.84	50.9	-23.1	74	40.32	34.83	12.11	36.36	332	203	P	H
		5464.08	50.61	-17.69	68.3	39.94	34.87	12.16	36.36	332	203	P	H
		5444.08	41.74	-12.26	54	31.13	34.85	12.12	36.36	332	203	A	H
		5500	108.08	-	-	97.36	34.9	12.19	36.37	332	203	P	H
		5500	96.86	-	-	86.14	34.9	12.19	36.37	332	203	A	H
		5418	55.38	-18.62	74	44.8	34.83	12.11	36.36	197	194	P	V
		5463.44	54.72	-13.58	68.3	44.05	34.87	12.16	36.36	197	194	P	V
		5418	48.79	-5.21	54	38.21	34.83	12.11	36.36	197	194	A	V
		5494	117.18	-	-	106.49	34.89	12.17	36.37	197	194	P	V
		5494	108.71	-	-	98.02	34.89	12.17	36.37	197	194	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 110 5550MHz		5361.84	50.94	-23.06	74	40.44	34.79	12.06	36.35	262	198	P	H
		5461.52	50.35	-17.95	68.3	39.71	34.86	12.14	36.36	262	198	P	H
		5452.08	41.88	-12.12	54	31.24	34.86	12.14	36.36	262	198	A	H
	*	5548	99.34	-	-	88.52	34.96	12.23	36.37	262	198	P	H
		5548	92.35	-	-	81.53	34.96	12.23	36.37	262	198	A	H
		5749.72	50.9	-17.4	68.3	39.67	35.19	12.42	36.38	262	198	P	H
		5455.6	54.16	-19.84	74	43.52	34.86	12.14	36.36	194	167	P	V
		5466.48	54.67	-13.63	68.3	44	34.87	12.16	36.36	194	167	P	V
		5456.24	44.98	-9.02	54	34.34	34.86	12.14	36.36	194	167	A	V
	*	5548	111.39	-	-	100.57	34.96	12.23	36.37	194	167	P	V
		5548	102.74	-	-	91.92	34.96	12.23	36.37	194	167	A	V
		5730.04	51.7	-16.6	68.3	40.51	35.17	12.4	36.38	194	167	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1/2A/2C

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 110 5550MHz		11092	62.15	-11.85	74	67.67	38.56	17.46	61.54	212	171	P	H
		11092	53.29	-0.71	54	58.81	38.56	17.46	61.54	212	171	A	H
		11103	57.88	-16.12	74	63.4	38.56	17.46	61.54	248	172	P	V
		11103	50.05	-3.95	54	55.57	38.56	17.46	61.54	248	172	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-1/2A/2C

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 42 5210MHz		5110.4	51.08	-22.92	74	40.99	34.59	11.83	36.33	369	290	P	H
		5150	44.12	-9.88	54	33.97	34.62	11.86	36.33	369	290	A	H
	*	5224	96.3	-	-	86.05	34.67	11.92	36.34	369	290	P	H
		5224	90.11	-	-	79.86	34.67	11.92	36.34	369	290	A	H
		5382.36	50.4	-23.6	74	39.87	34.81	12.08	36.36	369	290	P	H
		5372.64	41.73	-12.27	54	31.23	34.79	12.06	36.35	369	290	A	H
		5150.08	61.57	-6.73	68.3	51.42	34.62	11.86	36.33	295	183	P	V
		5150	53.39	-0.61	54	43.24	34.62	11.86	36.33	295	183	A	V
	*	5206	108.82	-	-	98.59	34.66	11.91	36.34	295	183	P	V
		5206	102.37	-	-	92.14	34.66	11.91	36.34	295	183	A	V
		5358.24	51.71	-22.29	74	41.23	34.78	12.05	36.35	295	183	P	V
		5350.68	43.71	-10.29	54	33.23	34.78	12.05	36.35	295	183	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1/2A/2C

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		10410	56.86	-11.44	68.3	63.83	38.05	16.91	61.93	100	0	P	H
HE80 Full		15602	47.53	-26.47	74	49.95	40.34	20.91	63.67	100	0	P	H
CH 42		10443	58.46	-9.84	68.3	65.4	38.06	16.92	61.92	300	0	P	V
5210MHz		15602	49.94	-24.06	74	52.36	40.34	20.91	63.67	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 116 5580MHz		11158	61.67	-12.33	74	67.09	38.6	17.51	61.53	188	174	P	H
		11158	53.56	-0.44	54	58.98	38.6	17.51	61.53	188	174	A	H
		11158	57.58	-16.42	74	63	38.6	17.51	61.53	299	210	P	V
		11158	52.28	-1.72	54	57.7	38.6	17.51	61.53	299	210	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full LF		69.77	24.76	-15.24	40	43.3	13.2	1.26	33	-	-	P	H
		130.88	31.94	-11.56	43.5	45.31	17.73	1.74	32.84	-	-	P	H
		175.5	28.12	-15.38	43.5	42.17	16.89	2.01	32.95	-	-	P	H
		268.62	22.93	-23.07	46	33.76	19.7	2.5	33.03	-	-	P	H
		499.48	26.64	-19.36	46	31.54	24.48	3.42	32.8	-	-	P	H
		797.27	30.76	-15.24	46	32.08	26.88	4.31	32.51	-	-	P	H
		44.55	34.59	-5.41	40	49.17	17.3	1.02	32.9	100	32	P	V
		129.91	30.88	-12.62	43.5	44.25	17.74	1.73	32.84	-	-	P	V
		261.83	21.03	-24.97	46	32.02	19.59	2.47	33.05	-	-	P	V
		500.45	27.19	-18.81	46	32.07	24.5	3.42	32.8	-	-	P	V
		625.58	27.07	-18.93	46	30.15	25.7	3.82	32.6	-	-	P	V
		760.41	28.98	-17.02	46	30.84	26.58	4.22	32.66	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



UNII-3 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		5824	106.05	-	-	92.84	34.73	10.43	31.95	307	94	P	H
		5824	98.91	-	-	85.7	34.73	10.43	31.95	307	94	A	H
		5851.6	67.19	-51.46	118.65	53.88	34.8	10.44	31.93	307	94	P	H
		5856.8	64.42	-45.98	110.4	51.02	34.87	10.46	31.93	307	94	P	H
		5874.8	54.53	-50.83	105.36	41.08	34.93	10.47	31.95	307	94	P	H
		5947.2	54.82	-13.48	68.3	41.1	35.2	10.53	32.01	307	94	P	H
		5830	117.92	-	-	104.71	34.73	10.43	31.95	158	176	P	V
		5830	111.34	-	-	98.13	34.73	10.43	31.95	158	176	A	V
		5852	82.78	-34.96	117.74	69.47	34.8	10.44	31.93	158	176	P	V
		5860	79.66	-29.84	109.5	66.28	34.87	10.46	31.95	158	176	P	V
		5875.6	66.31	-38.54	104.85	52.86	34.93	10.47	31.95	158	176	P	V
		5937.6	57.1	-11.2	68.3	43.46	35.13	10.52	32.01	158	176	P	V

UNII-3 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		9321	49.71	-24.29	74	61.62	36.58	13.3	61.79	300	0	P	H
		11653	61.94	-12.06	74	69.92	38.46	15.03	61.47	146	48	P	H
		11653	53.22	-0.78	54	61.2	38.46	15.03	61.47	146	48	A	H
		11653	61.23	-12.77	74	69.21	38.46	15.03	61.47	280	171	P	V
		11653	51.93	-2.07	54	59.91	38.46	15.03	61.47	280	171	A	V
		17472	52.33	-15.97	68.3	54.4	41.01	18.51	61.59	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz
WIFI 802.11ax HE20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5				(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 CH 149 5745MHz		5623.2	53.65	-14.65	68.3	40.89	34.58	10.26	32.08	329	94	P	H
		5696.8	55.09	-47.85	102.94	42.33	34.5	10.32	32.06	329	94	P	H
		5717.2	65.06	-45.06	110.12	52.25	34.52	10.33	32.04	329	94	P	H
		5720.8	65	-47.72	112.72	52.16	34.53	10.35	32.04	329	94	P	H
		5752	105.5	-	-	92.57	34.57	10.37	32.01	329	94	P	H
		5752	97.78	-	-	84.85	34.57	10.37	32.01	329	94	A	H
		5628	55.95	-12.35	68.3	43.19	34.58	10.26	32.08	167	177	P	V
		5696.8	66.54	-36.4	102.94	53.78	34.5	10.32	32.06	167	177	P	V
		5719.2	78.94	-31.74	110.68	66.1	34.53	10.35	32.04	167	177	P	V
		5724.8	80.34	-41.5	121.84	67.5	34.53	10.35	32.04	167	177	P	V
		5752	117.15	-	-	104.22	34.57	10.37	32.01	167	177	P	V
		5752	109.17	-	-	96.24	34.57	10.37	32.01	167	177	A	V

UNII-3 5725~5850MHz
WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 CH 149 5745MHz		9189	49.34	-24.66	74	61.67	36.3	13.21	61.84	300	0	P	H
		11488	61.88	-12.12	74	70.2	38.29	14.91	61.52	166	54	P	H
		11488	53.09	-0.91	54	61.41	38.29	14.91	61.52	166	54	A	H
		11488	55.2	-18.8	74	63.52	38.29	14.91	61.52	288	170	P	V
		11488	51.14	-2.86	54	59.46	38.29	14.91	61.52	288	170	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz

WIFI 802.11ax HE20_Partial 26 (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 149 5745MHz		5624	52.97	-15.33	68.3	40.21	34.58	10.26	32.08	300	276	P	H
		5698.8	52.79	-51.63	104.42	40.03	34.5	10.32	32.06	300	276	P	H
		5712.8	53.23	-55.66	108.89	40.42	34.52	10.33	32.04	300	276	P	H
		5724.8	52.77	-69.07	121.84	39.93	34.53	10.35	32.04	300	276	P	H
		5734	99.58	-	-	86.71	34.53	10.35	32.01	300	276	P	H
		5734	94.04	-	-	81.17	34.53	10.35	32.01	300	276	A	H
		5618.8	55.26	-13.04	68.3	42.5	34.58	10.26	32.08	172	176	P	V
		5656.8	55.82	-17.53	73.35	43.07	34.54	10.29	32.08	172	176	P	V
		5720	55.23	-55.67	110.9	42.39	34.53	10.35	32.04	172	176	P	V
		5724	57.2	-62.82	120.02	44.36	34.53	10.35	32.04	172	176	P	V
		5734	113.79	-	-	100.92	34.53	10.35	32.01	172	176	P	V
		5734	107.98	-	-	95.11	34.53	10.35	32.01	172	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz
WIFI 802.11ax HE20_Partial 52 (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 52/40 CH 165 5825MHz		5851.2	51.43	-68.13	119.56	38.12	34.8	10.44	31.93	305	281	P	H
		5865.6	52.54	-55.39	107.93	39.16	34.87	10.46	31.95	305	281	P	H
		5892.8	53.86	-38.23	92.09	40.34	35	10.49	31.97	305	281	P	H
		5953.6	54.53	-13.77	68.3	40.81	35.2	10.53	32.01	305	281	P	H
		5830	103.43	-	-	90.22	34.73	10.43	31.95	305	281	P	H
		5830	95.18	-	-	81.97	34.73	10.43	31.95	305	281	A	H
		5851.2	53.44	-66.12	119.56	40.13	34.8	10.44	31.93	151	176	P	V
		5862	56.8	-52.14	108.94	43.42	34.87	10.46	31.95	151	176	P	V
		5912.4	56.65	-20.94	77.59	43.06	35.07	10.51	31.99	151	176	P	V
		5972.4	54.68	-13.62	68.3	40.89	35.27	10.55	32.03	151	176	P	V
		5830	115.42	-	-	102.21	34.73	10.43	31.95	151	176	P	V
		5830	108.13	-	-	94.92	34.73	10.43	31.95	151	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz

WIFI 802.11ax HE20_Partial 106 (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 165 5825MHz		5852.4	53.04	-63.79	116.83	39.73	34.8	10.44	31.93	309	93	P	H
		5868.4	54.34	-52.81	107.15	40.96	34.87	10.46	31.95	309	93	P	H
		5922.4	53.76	-16.46	70.22	40.1	35.13	10.52	31.99	309	93	P	H
		5950.8	54.5	-13.8	68.3	40.78	35.2	10.53	32.01	309	93	P	H
		5830	106	-	-	92.79	34.73	10.43	31.95	309	93	P	H
		5830	96.62	-	-	83.41	34.73	10.43	31.95	309	93	A	H
		5853.6	56.57	-57.52	114.09	43.17	34.87	10.46	31.93	167	176	P	V
		5859.6	56.3	-53.31	109.61	42.92	34.87	10.46	31.95	167	176	P	V
		5908.4	59.42	-21.13	80.55	45.81	35.07	10.51	31.97	167	176	P	V
		5946	54.68	-13.62	68.3	40.96	35.2	10.53	32.01	167	176	P	V
		5830	116.9	-	-	103.69	34.73	10.43	31.95	167	176	P	V
		5830	108.98	-	-	95.77	34.73	10.43	31.95	167	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz
WIFI 802.11ax HE40 (Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 CH 159 5795MHz		5630.8	52.65	-15.65	68.3	39.91	34.58	10.26	32.1	344	89	P	H
		5698.8	53	-51.42	104.42	40.24	34.5	10.32	32.06	344	89	P	H
		5716.4	55.15	-54.74	109.89	42.34	34.52	10.33	32.04	344	89	P	H
		5722.8	54.93	-62.35	117.28	42.09	34.53	10.35	32.04	344	89	P	H
		5800	102.44	-	-	89.41	34.6	10.4	31.97	344	89	P	H
		5800	94.4	-	-	81.37	34.6	10.4	31.97	344	89	A	H
		5852.8	57.66	-58.26	115.92	44.35	34.8	10.44	31.93	344	89	P	H
		5872.8	57.02	-48.9	105.92	43.57	34.93	10.47	31.95	344	89	P	H
		5875.6	55.72	-49.13	104.85	42.27	34.93	10.47	31.95	344	89	P	H
		5997.2	54.02	-14.28	68.3	40.09	35.4	10.58	32.05	344	89	P	H
		5649.6	59.63	-8.67	68.3	46.9	34.54	10.29	32.1	166	173	P	V
		5684	62.96	-30.54	93.5	50.2	34.5	10.32	32.06	166	173	P	V
		5716.4	67.89	-42	109.89	55.08	34.52	10.33	32.04	166	173	P	V
		5724.8	69.04	-52.8	121.84	56.2	34.53	10.35	32.04	166	173	P	V
		5794	114.89	-	-	101.86	34.6	10.4	31.97	166	173	P	V
		5794	107.34	-	-	94.31	34.6	10.4	31.97	166	173	A	V
		5851.6	75.58	-43.07	118.65	62.27	34.8	10.44	31.93	166	173	P	V
		5872	71.61	-34.53	106.14	58.16	34.93	10.47	31.95	166	173	P	V
		5883.2	62.84	-36.37	99.21	49.39	34.93	10.47	31.95	166	173	P	V
		5939.6	58.43	-9.87	68.3	44.71	35.2	10.53	32.01	166	173	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz

WIFI 802.11ax HE40 (Harmonic @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 CH 159 5795MHz		9277	50.01	-18.29	68.3	61.98	36.55	13.28	61.8	300	0	P	H
		11587	58.73	-15.27	74	66.85	38.39	14.98	61.49	300	120	P	H
		11587	50.85	-3.15	54	58.97	38.39	14.98	61.49	300	120	A	H
		11587	60	-14	74	68.12	38.39	14.98	61.49	288	170	P	V
		11587	52.78	-1.22	54	60.9	38.39	14.98	61.49	288	170	A	V
		17373	54.87	-13.43	68.3	57.38	41.03	18.45	61.99	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz
WIFI 802.11ax HE80(Band Edge @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 CH 155 5775MHz		5646	52.98	-15.32	68.3	40.24	34.56	10.28	32.1	299	92	P	H
		5685.6	56.78	-37.9	94.68	44.02	34.5	10.32	32.06	299	92	P	H
		5716.8	58.76	-51.25	110.01	45.95	34.52	10.33	32.04	299	92	P	H
		5722	58.49	-56.97	115.46	45.65	34.53	10.35	32.04	299	92	P	H
		5776	100.38	-	-	87.4	34.58	10.39	31.99	299	92	P	H
		5776	91.57	-	-	78.59	34.58	10.39	31.99	299	92	A	H
		5851.2	55.21	-64.35	119.56	41.9	34.8	10.44	31.93	299	92	P	H
		5858.4	57.32	-52.63	109.95	43.94	34.87	10.46	31.95	299	92	P	H
		5890.8	56.53	-37.04	93.57	43.01	35	10.49	31.97	299	92	P	H
		5959.2	54.98	-13.32	68.3	41.17	35.27	10.55	32.01	299	92	P	H
		5647.2	61.53	-6.77	68.3	48.79	34.56	10.28	32.1	177	174	P	V
		5689.2	70.44	-26.9	97.34	57.68	34.5	10.32	32.06	177	174	P	V
		5715.2	74.06	-35.5	109.56	61.25	34.52	10.33	32.04	177	174	P	V
		5721.6	75.17	-39.38	114.55	62.33	34.53	10.35	32.04	177	174	P	V
		5776	111.99	-	-	99.01	34.58	10.39	31.99	177	174	P	V
		5776	103.56	-	-	90.58	34.58	10.39	31.99	177	174	A	V
		5865.2	70.6	-37.44	108.04	57.22	34.87	10.46	31.95	177	174	P	V
		5876.4	67.57	-36.69	104.26	54.12	34.93	10.47	31.95	177	174	P	V
		5940.8	58.12	-10.18	68.3	44.4	35.2	10.53	32.01	177	174	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz

WIFI 802.11ax HE80(Harmonic @ 3m)

WIFI Ant. CDD 4+5	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 CH 155 5775MHz		9244	49.35	-18.95	68.3	61.47	36.45	13.25	61.82	300	0	P	H
		11576	57.87	-16.13	74	66.02	38.37	14.97	61.49	140	50	P	H
		11576	52.35	-1.65	54	60.5	38.37	14.97	61.49	140	50	A	H
		11554	57.01	-16.99	74	65.2	38.35	14.96	61.5	276	173	P	V
		11554	51.82	-2.18	54	60.01	38.35	14.96	61.5	276	173	A	V
		17318	51.81	-16.49	68.3	54.53	41.04	18.42	62.18	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		75.59	33.85	-6.15	40	51.04	12.83	1.38	31.4	-	-	P	H
		95.96	31.8	-11.7	43.5	46.29	15.35	1.56	31.4	-	-	P	H
		125.06	29.12	-14.38	43.5	41.4	17.35	1.77	31.4	-	-	P	H
		262.8	41.3	-4.7	46	50.11	19.98	2.61	31.4	-	-	P	H
		311.3	34.78	-11.22	46	44.2	19.15	2.84	31.41	-	-	P	H
		687.66	35.84	-10.16	46	36.6	26.43	4.18	31.37	-	-	P	H
		63.95	36.31	-3.69	40	54.6	11.84	1.27	31.4	-	-	P	V
		167.74	36.44	-7.06	43.5	50.27	15.51	2.06	31.4	-	-	P	V
		250.19	32.59	-13.41	46	42.99	18.45	2.55	31.4	-	-	P	V
		375.32	34.25	-11.75	46	41.92	20.67	3.1	31.44	-	-	P	V
		504.33	34.71	-11.29	46	38.78	23.82	3.59	31.48	-	-	P	V
		696.39	32.9	-13.1	46	33.47	26.59	4.2	31.36	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Simultaneous transmission>

UNII-2C - 5470~5725MHz

WIFI 802.11ax HE20 Full + LTE Band 48 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 140 5700MHz	*	5700	99.37	-	-	84.8	34.75	11.3	31.48	300	77	P	H
		5700	91.59	-	-	77.03	34.75	11.29	31.48	300	77	A	H
		5750.115	56.51	-11.79	68.3	41.82	34.79	11.37	31.47	300	77	P	H
	*	5700	112.11	-	-	97.54	34.75	11.3	31.48	145	158	P	V
		5700	104.6	-	-	90.04	34.75	11.29	31.48	145	158	A	V
		5728.73	59.13	-9.17	68.3	44.49	34.77	11.34	31.47	145	158	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2C 5470~5725MHz

WIFI 802.11ax HE20 Full + LTE Band 48 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 140 5700MHz		11400	63.37	-10.63	74	76.1	37.95	16.05	66.73	280	168	P	H
		11400	52.57	-1.43	54	65.3	37.95	16.05	66.73	280	168	A	H
		11400	58.06	-15.94	74	70.79	37.95	16.05	66.73	351	211	P	V
		11400	47.84	-6.16	54	60.56	37.96	16.05	66.73	351	211	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
CDD 4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

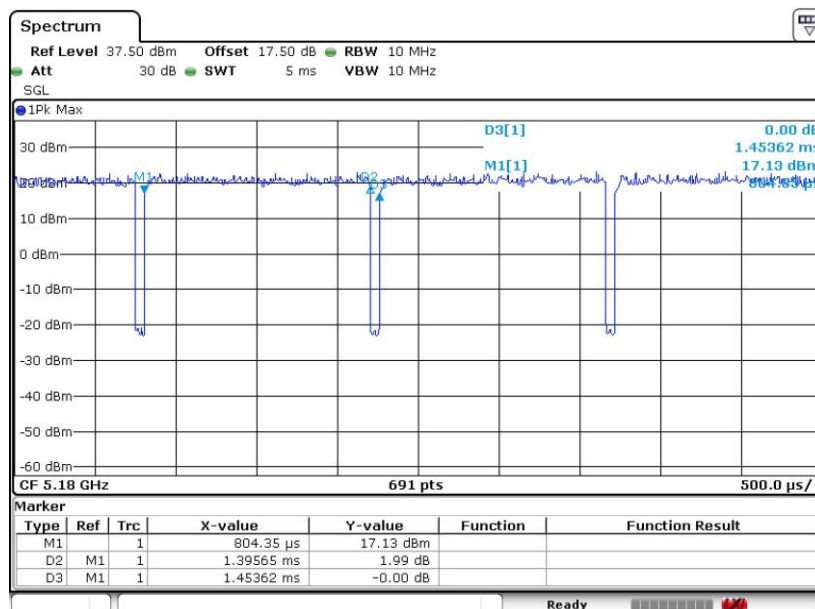
1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Duty Cycle Plots

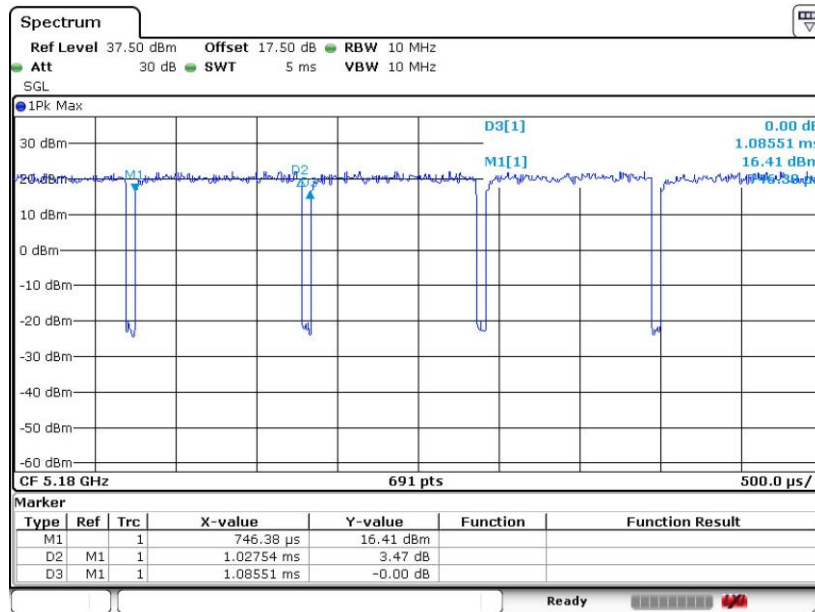
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	96.01	1.396	0.717	0.75KHz
802.11ax HE20	94.66	1.028	0.973	1KHz
802.11ax HE40	90.45	0.549	1.821	2KHz
802.11ax HE80	83.81	0.3	3.333	3.6KHz
802.11ax HE20_RU26	96.15	1.449	0.690	0.75KHz
802.11ax HE20_RU52	94.03	0.913	1.095	1.1KHz
802.11ax HE20_RU106	91.60	0.632	1.583	1.8KHz

802.11a

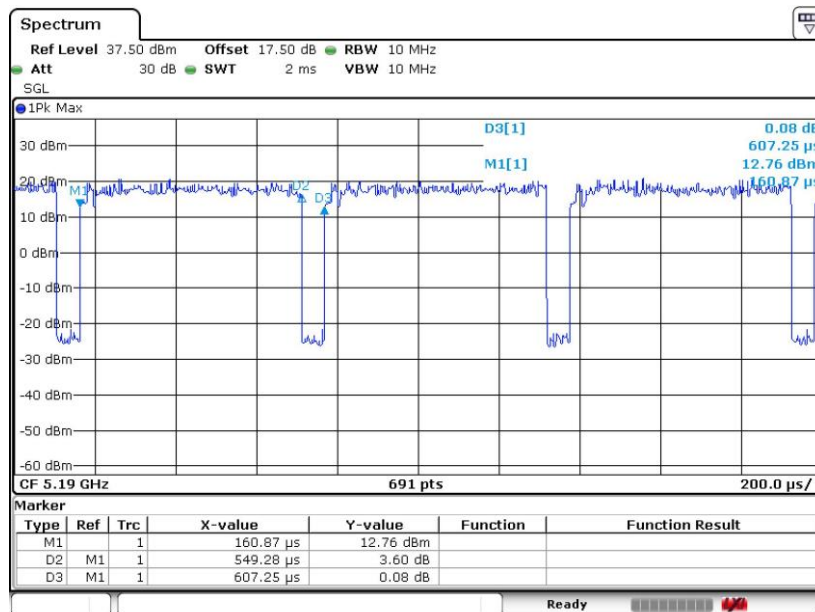




802.11ax HE20

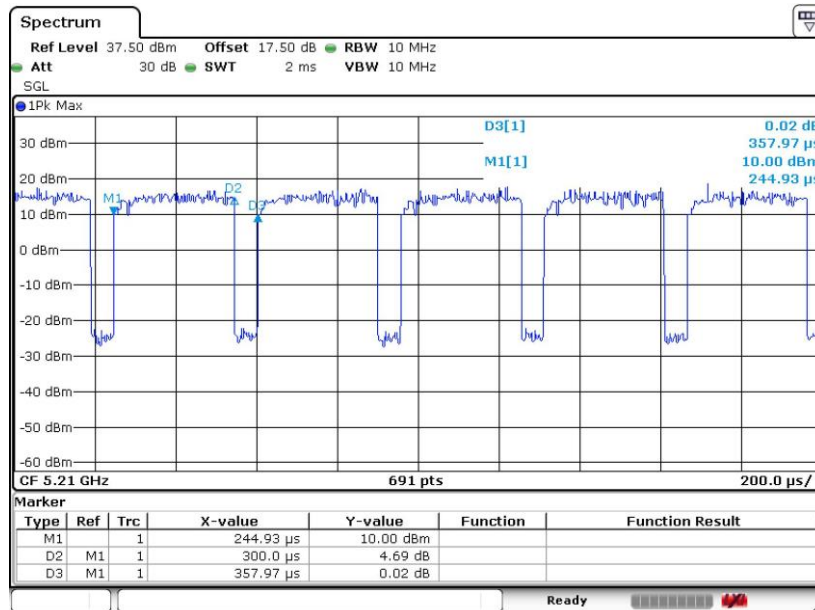


802.11ax HE40

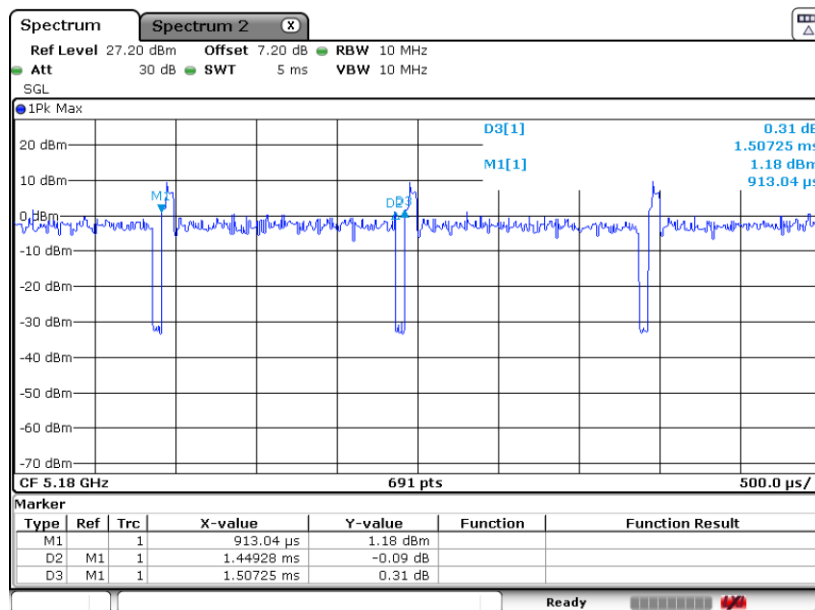




802.11ax HE80

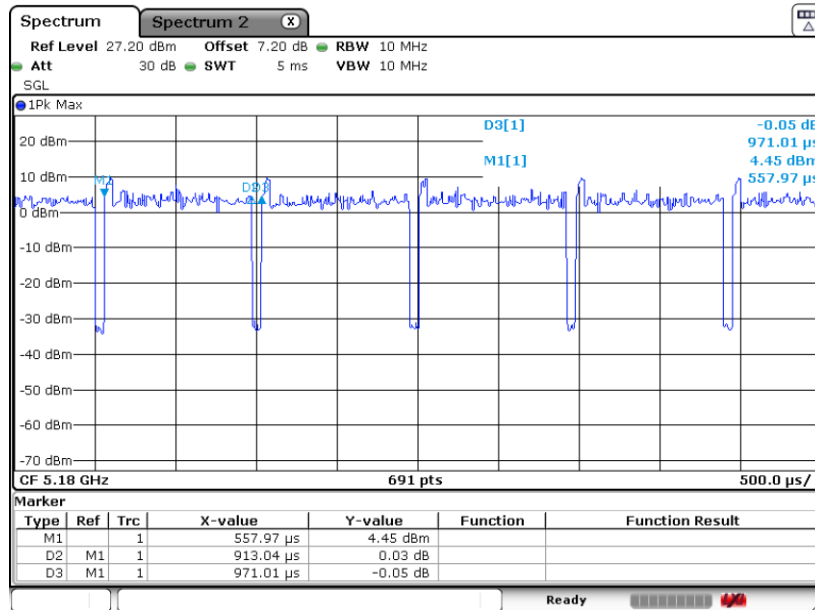


802.11ax HE20-26RU





802.11ax HE20-52RU



802.11ax HE20-106RU

