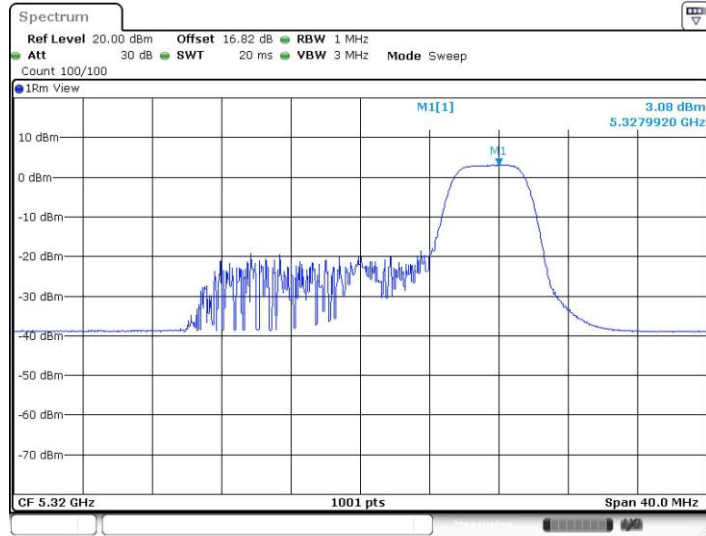


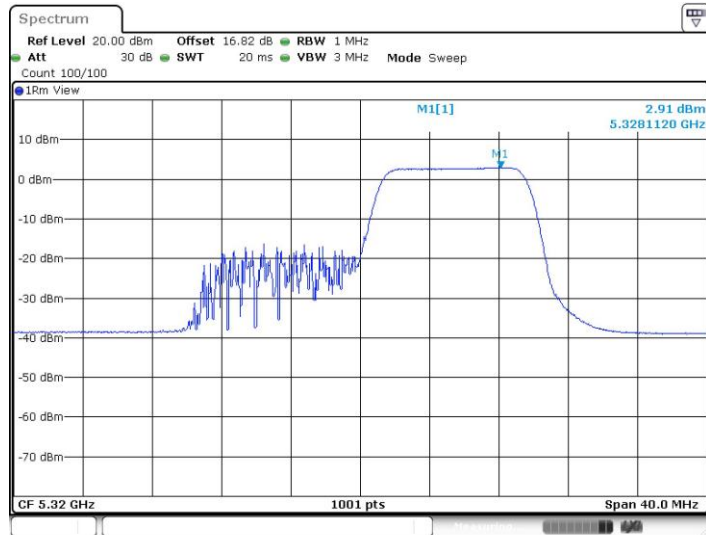


11AX20MIMO_Ant2_5320_52Tone_RU40



Date: 14.MAR.2022 17:41:03

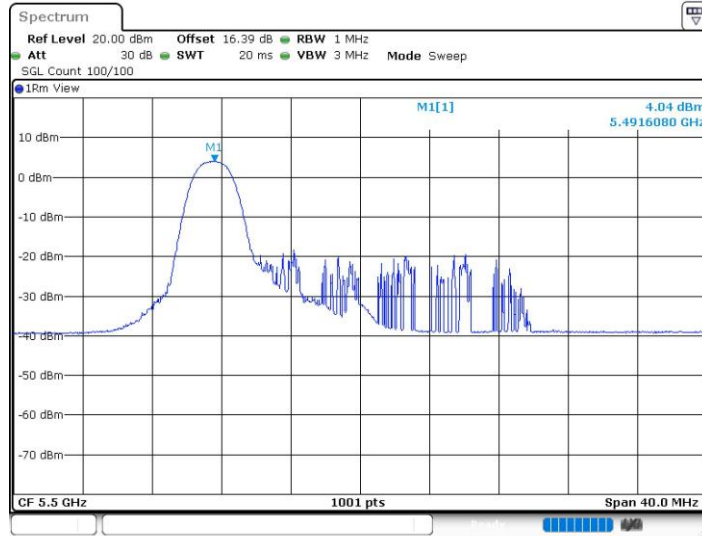
11AX20MIMO_Ant2_5320_106Tone_RU54



Date: 14.MAR.2022 17:42:03

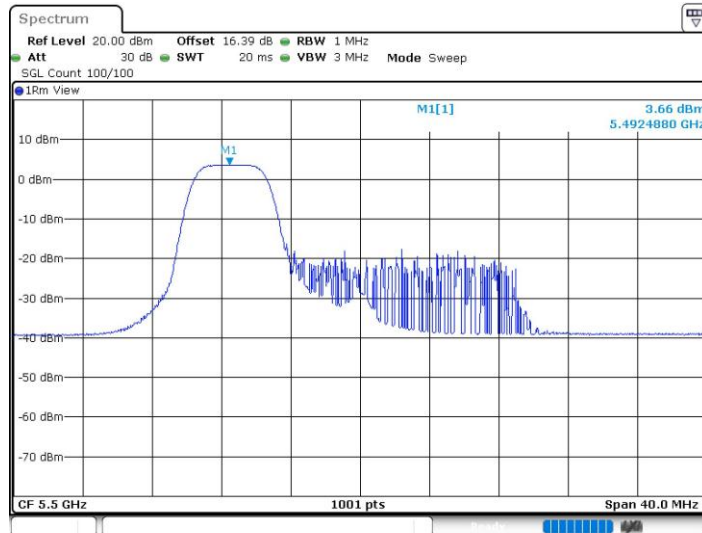


11AX20MIMO_Ant1_5500_26Tone_RU0



Date: 27.JAN.2022 18:01:35

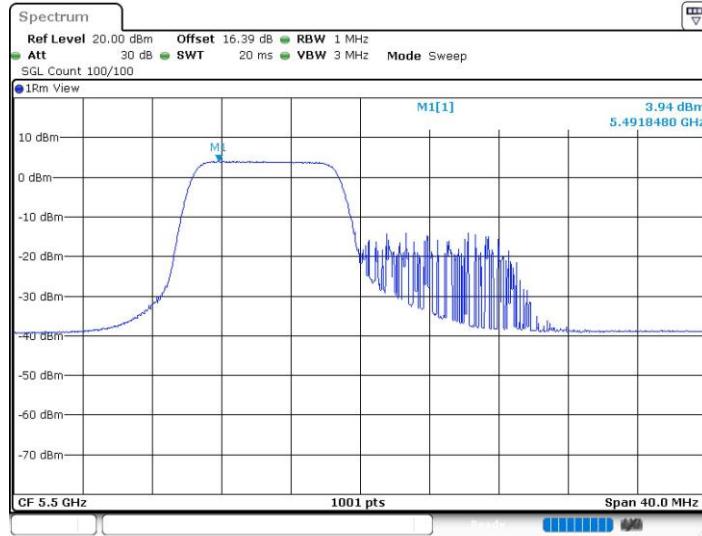
11AX20MIMO_Ant1_5500_52Tone_RU37



Date: 27.JAN.2022 20:01:25

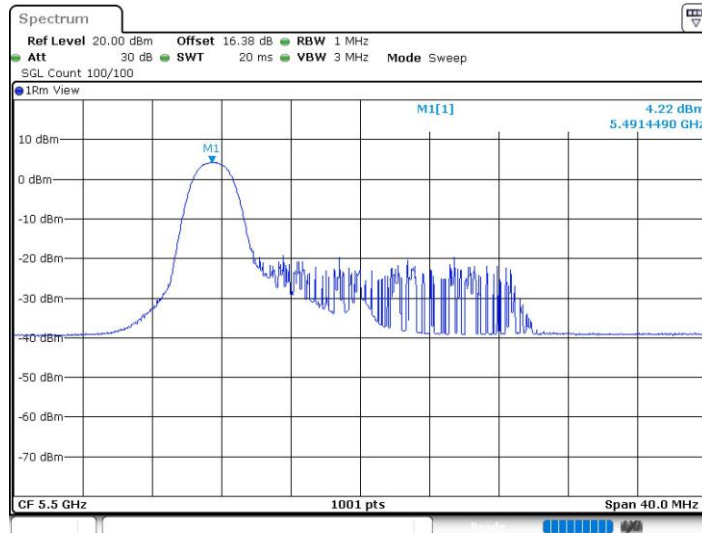


11AX20MIMO_Ant1_5500_106Tone_RU53

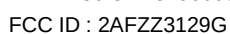
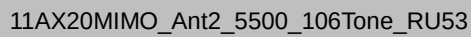


Date: 27.JAN.2022 21:48:52

11AX20MIMO_Ant2_5500_26Tone_RU0

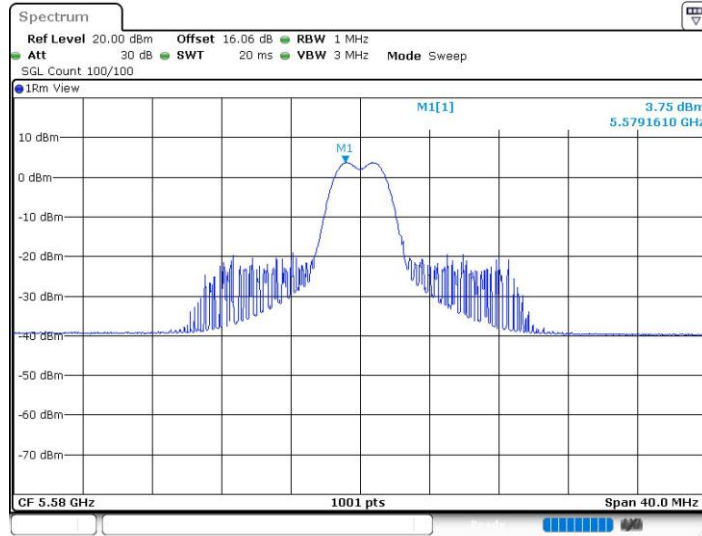


Date: 27.JAN.2022 18:02:16



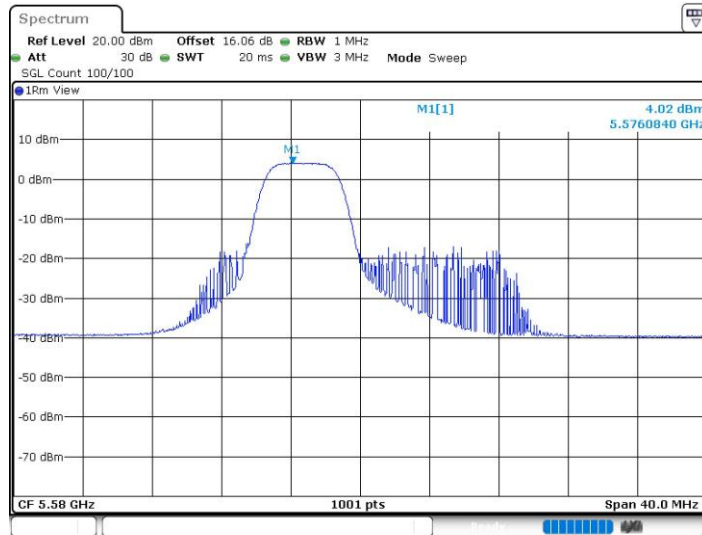


11AX20MIMO_Ant1_5580_26Tone_RU4



Date: 27.JAN.2022 19:00:10

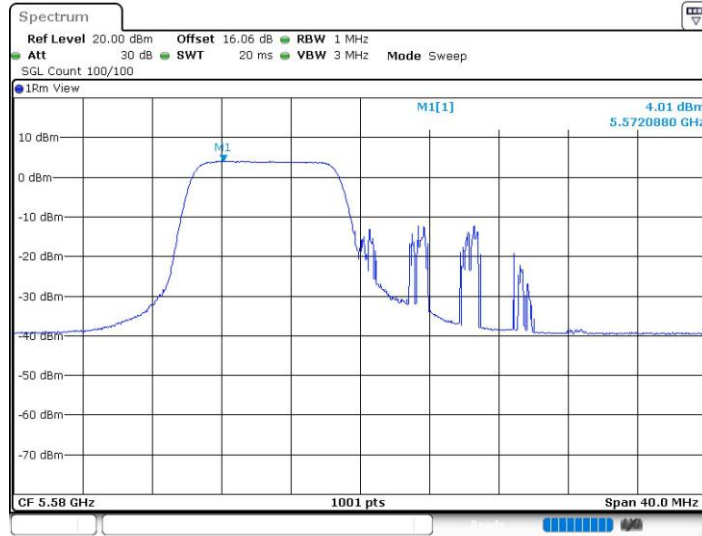
11AX20MIMO_Ant1_5580_52Tone_RU38



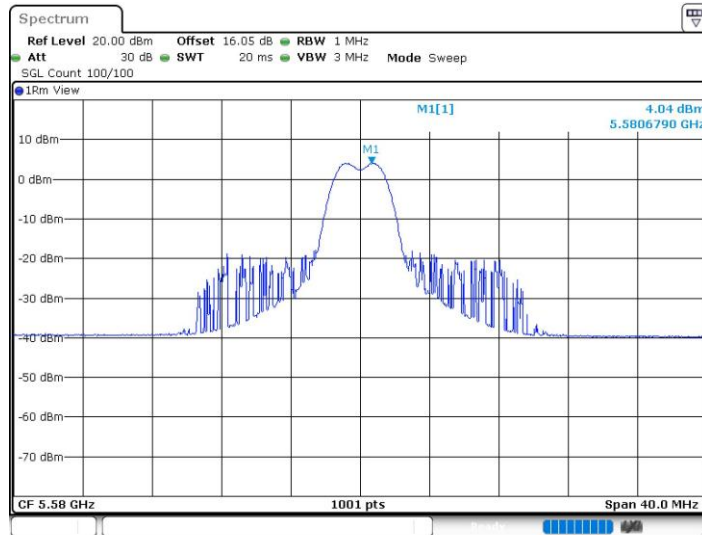
Date: 27.JAN.2022 20:38:28



11AX20MIMO_Ant1_5580_106Tone_RU53

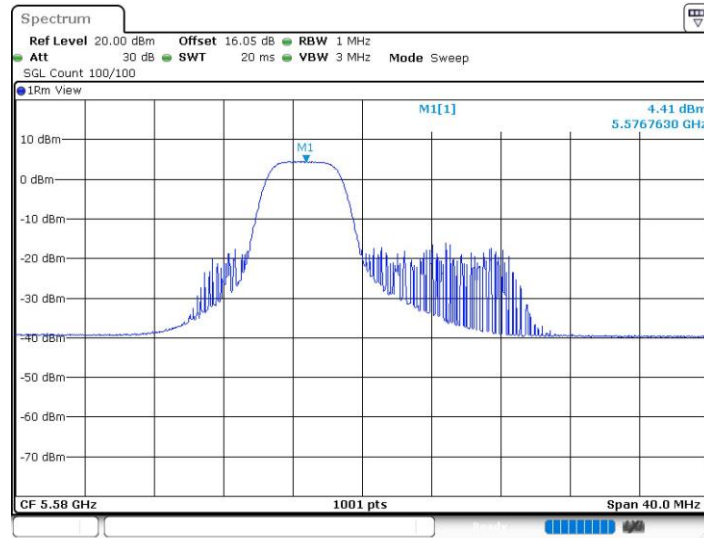


11AX20MIMO_Ant2_5580_26Tone_RU4



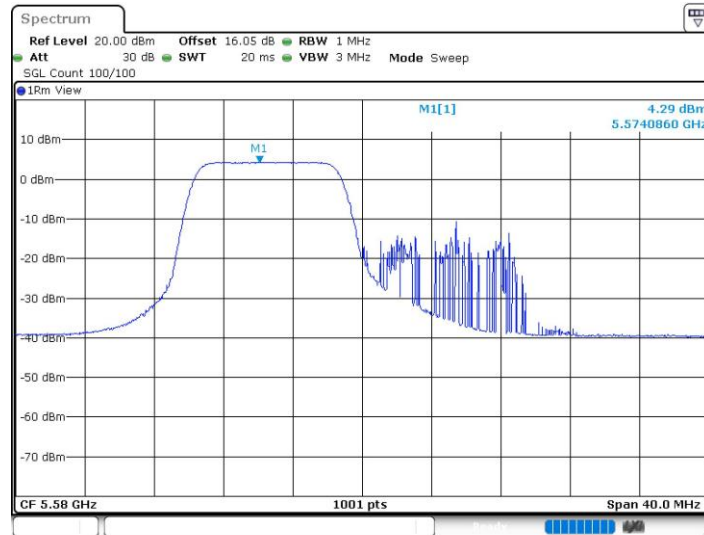


11AX20MIMO_Ant2_5580_52Tone_RU38



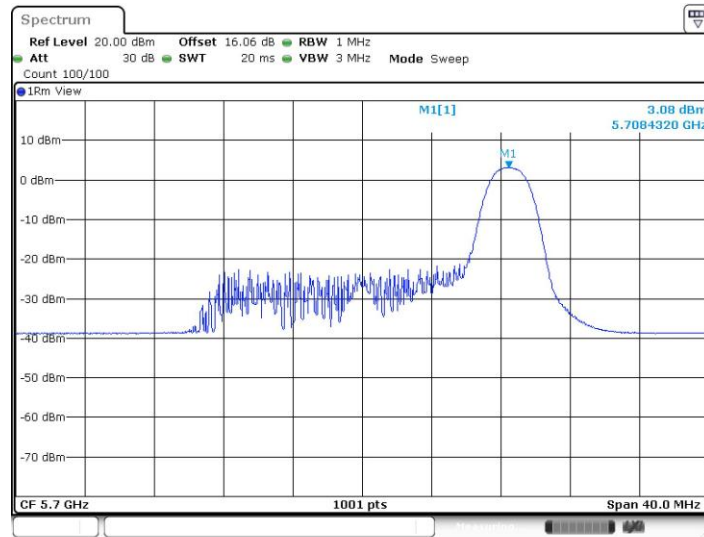
Date: 27.JAN.2022 20:39:09

11AX20MIMO_Ant2_5580_106Tone_RU53

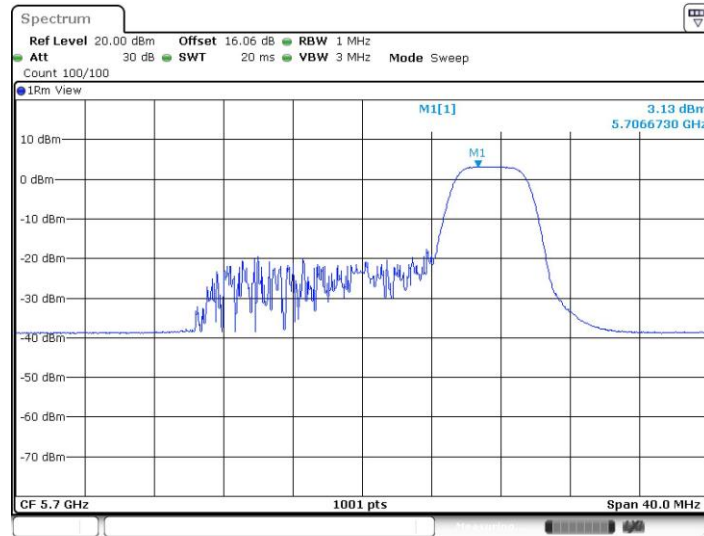


Date: 27.JAN.2022 21:55:00

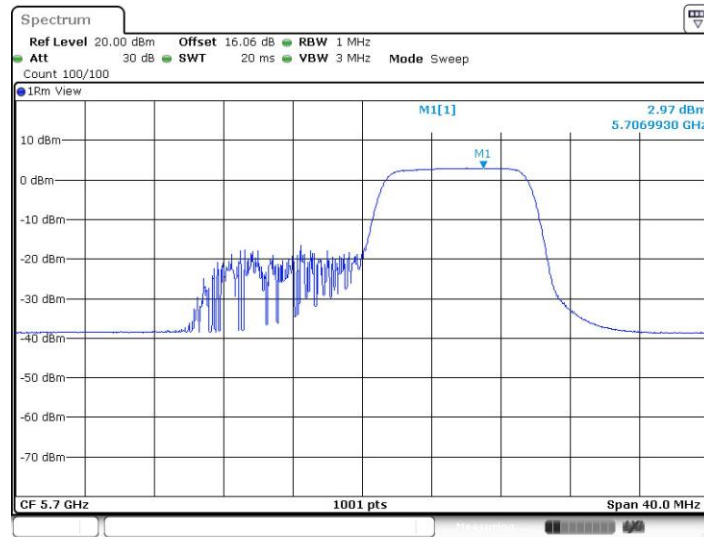
11AX20MIMO_Ant1_5700_26Tone_RU8



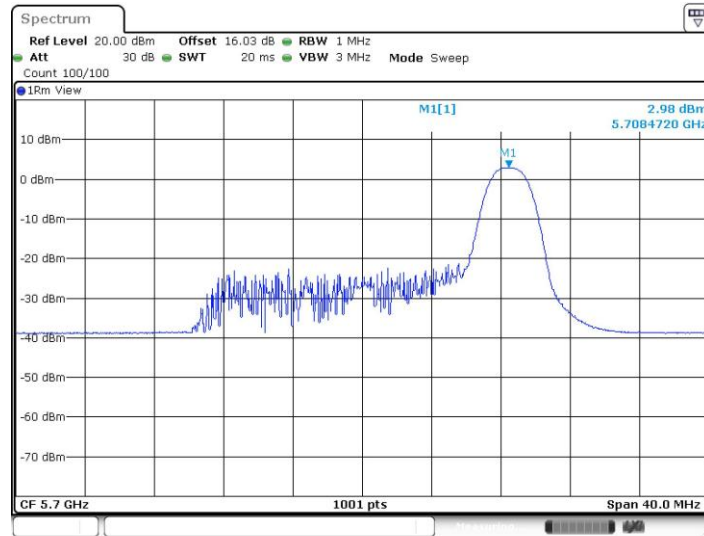
11AX20MIMO_Ant1_5700_52Tone_RU40



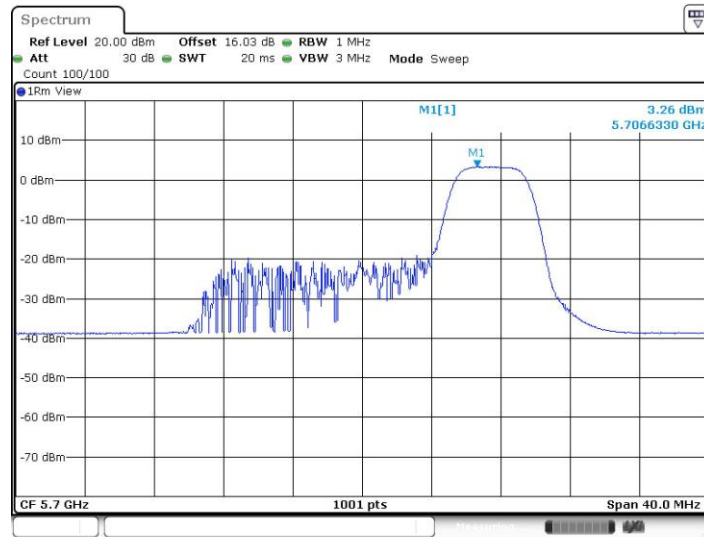
11AX20MIMO_Ant1_5700_106Tone_RU54



11AX20MIMO_Ant2_5700_26Tone_RU8

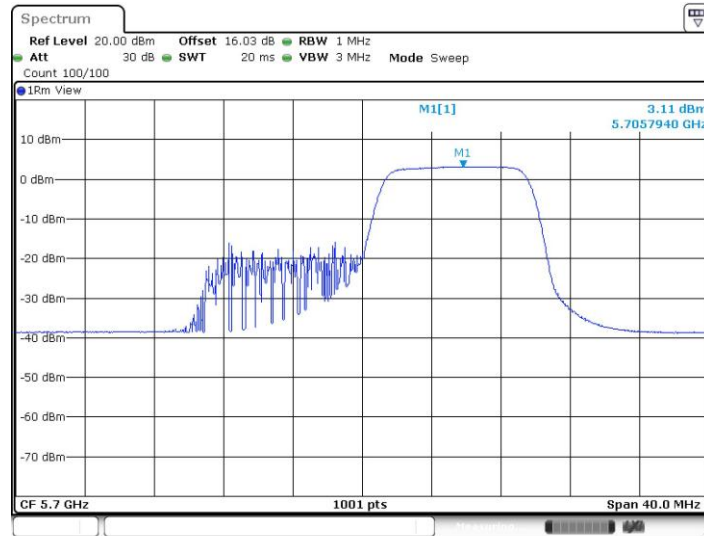


11AX20MIMO_Ant2_5700_52Tone_RU40

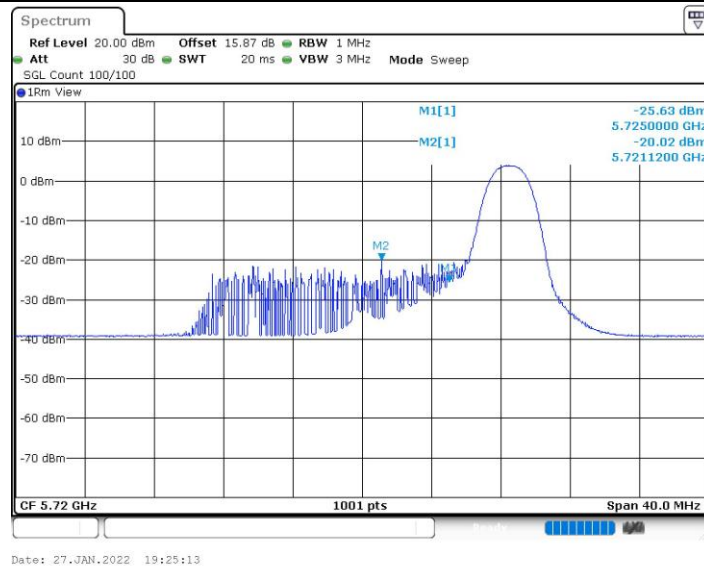
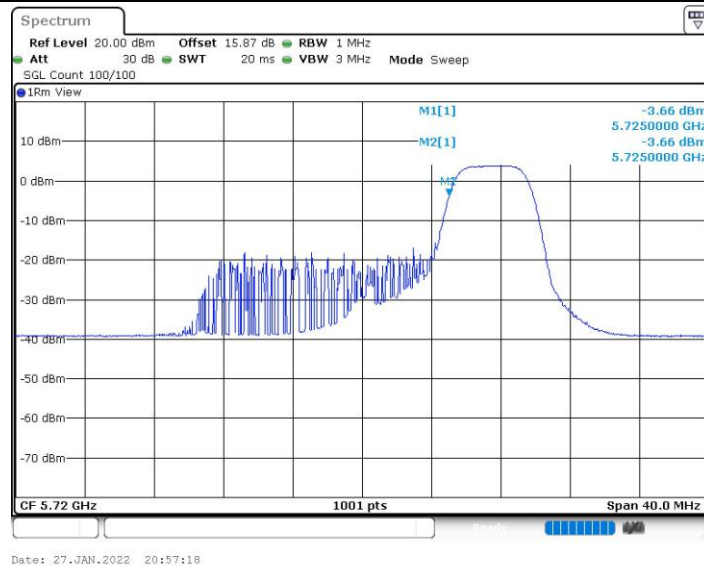


Date: 14.MAR.2022 18:37:15

11AX20MIMO_Ant2_5700_106Tone_RU54

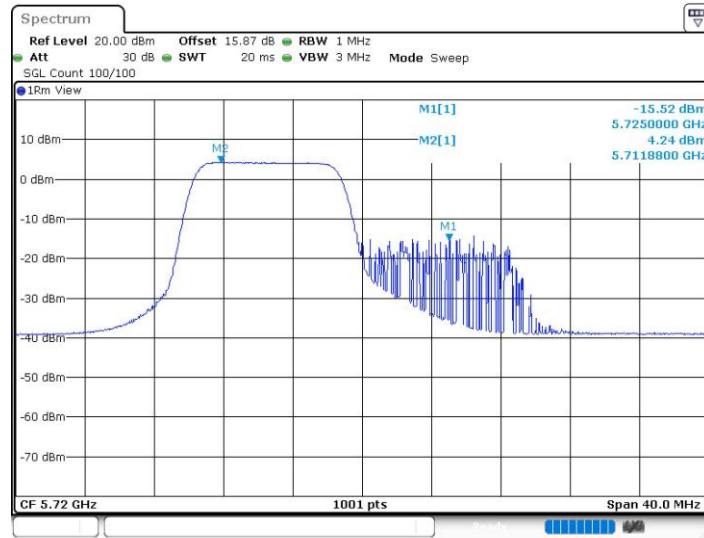


Date: 14.MAR.2022 18:38:05

11AX20MIMO_Ant1_5720_UNII-2C_26Tone_RU8

11AX20MIMO_Ant1_5720_UNII-2C_52Tone_RU40


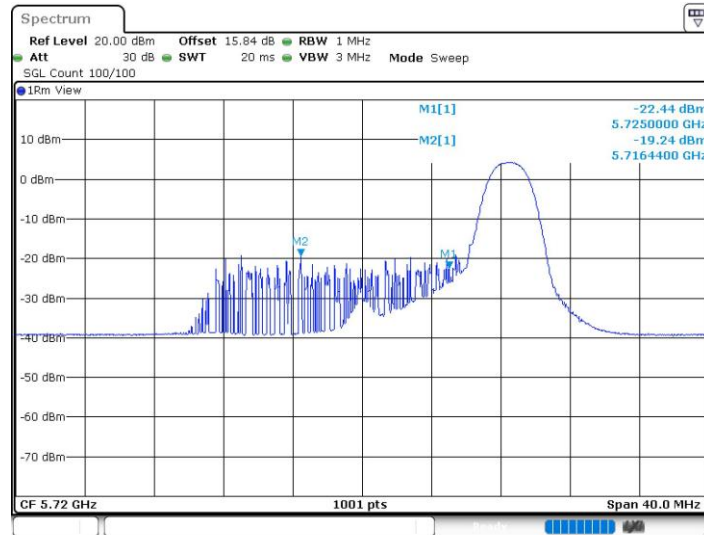


11AX20MIMO_Ant1_5720_UNII-2C_106Tone_RU54



Date: 27.JAN.2022 22:29:15

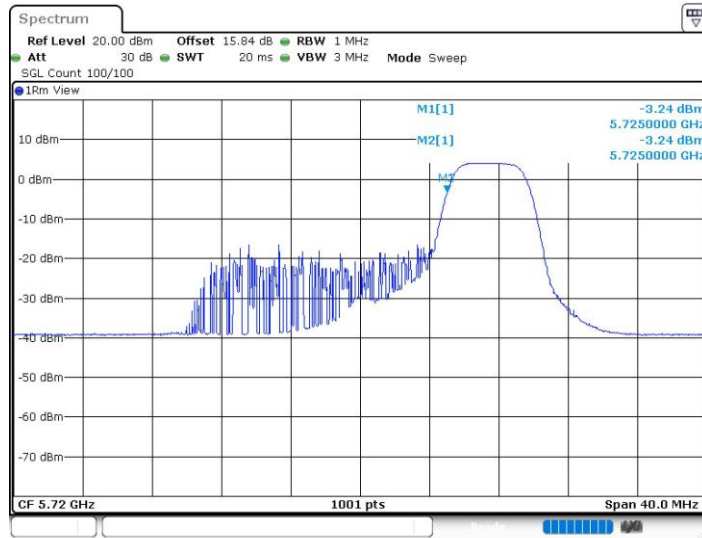
11AX20MIMO_Ant2_5720_UNII-2C_26Tone_RU8



Date: 27.JAN.2022 19:26:06

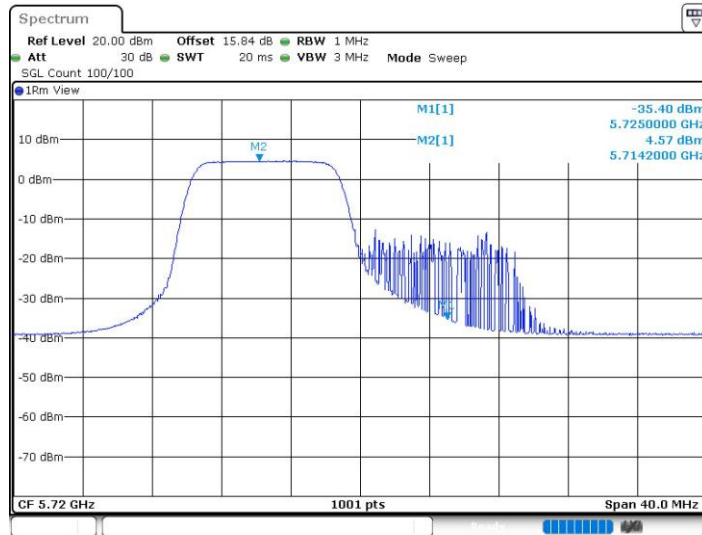


11AX20MIMO_Ant2_5720_UNII-2C_52Tone_RU40



Date: 27.JAN.2022 20:58:09

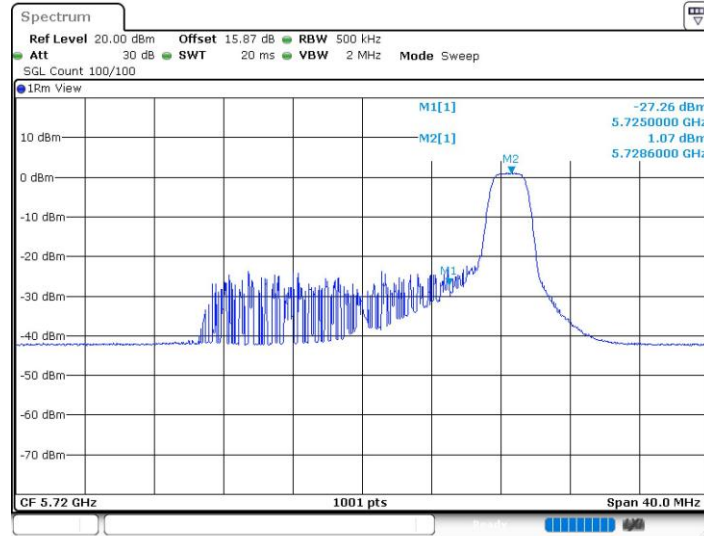
11AX20MIMO_Ant2_5720_UNII-2C_106Tone_RU54



Date: 27.JAN.2022 22:30:08

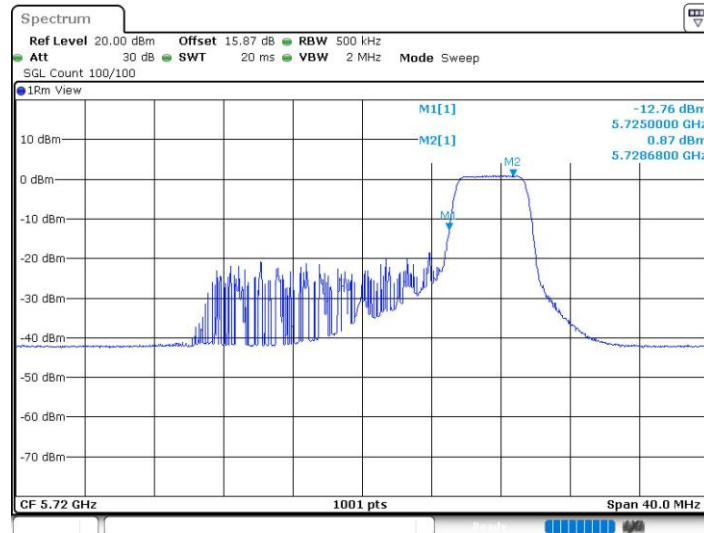


11AX20MIMO_Ant1_5720_UNII-3_26Tone_RU8



Date: 27.JAN.2022 19:25:23

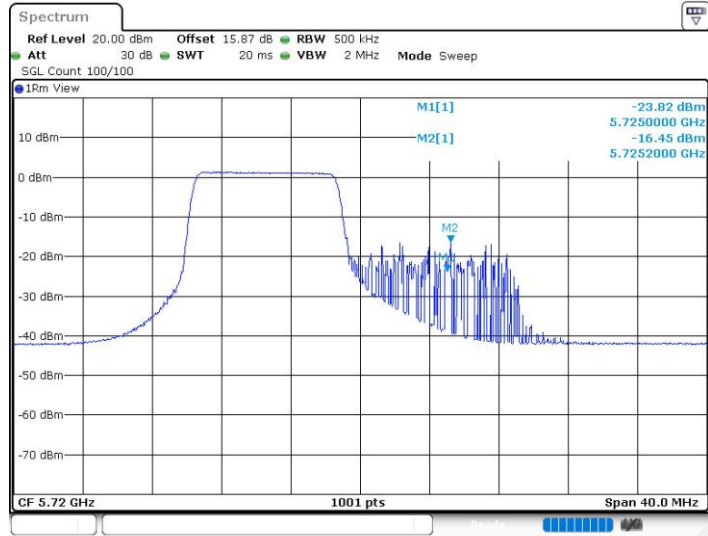
11AX20MIMO_Ant1_5720_UNII-3_52Tone_RU40



Date: 27.JAN.2022 20:57:28

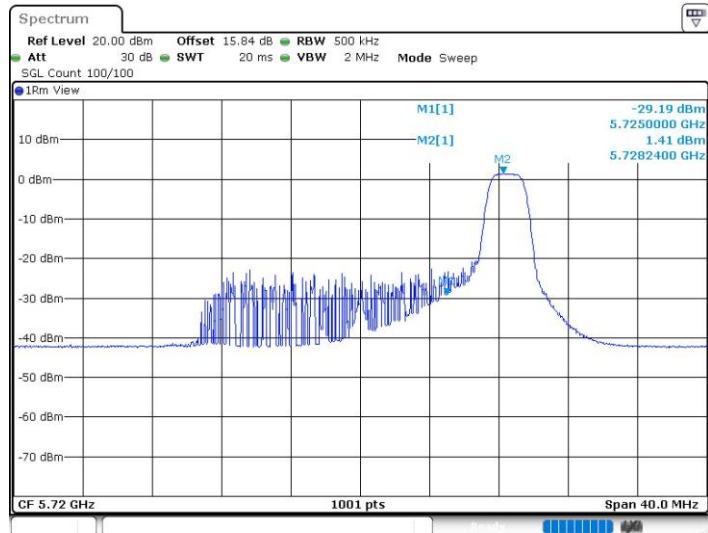


11AX20MIMO_Ant1_5720_UNII-3_106Tone_RU54



Date: 27.JAN.2022 22:29:25

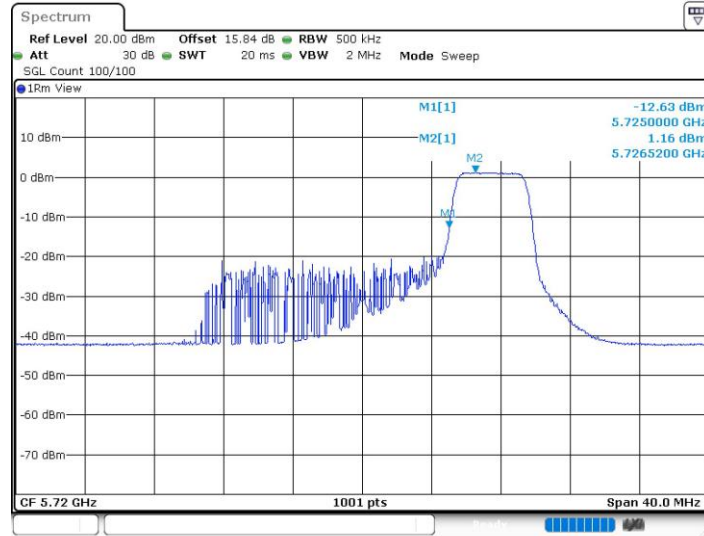
11AX20MIMO_Ant2_5720_UNII-3_26Tone_RU8



Date: 27.JAN.2022 19:26:16

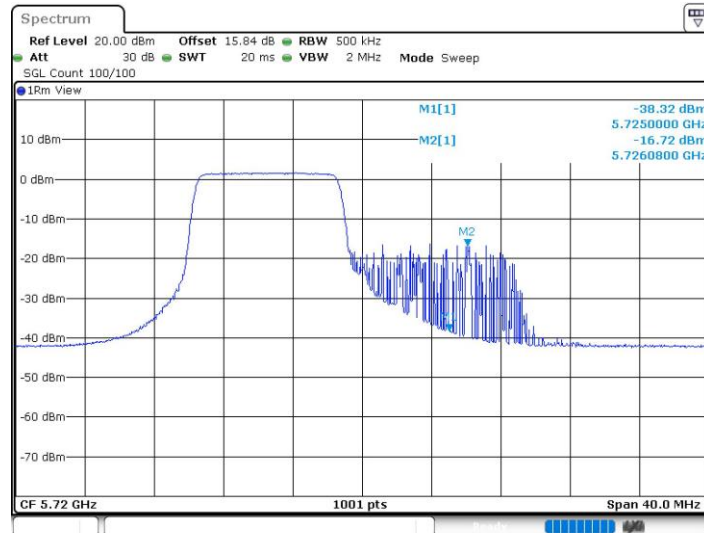


11AX20MIMO_Ant2_5720_UNII-3_52Tone_RU40



Date: 27.JAN.2022 20:58:20

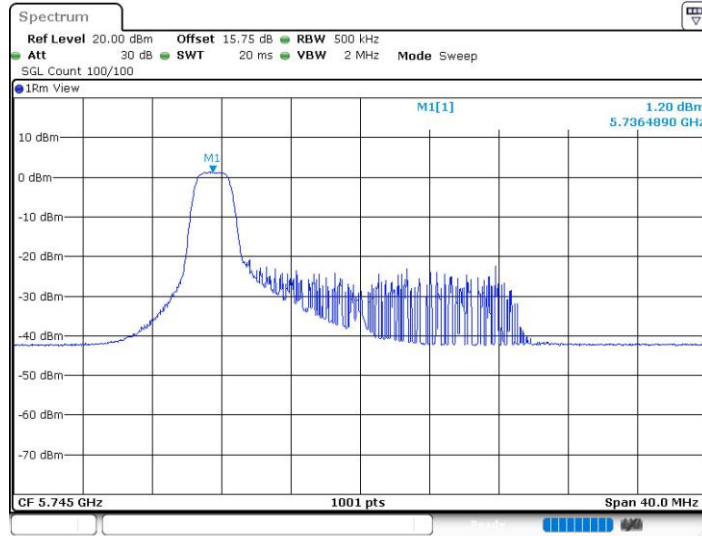
11AX20MIMO_Ant2_5720_UNII-3_106Tone_RU54



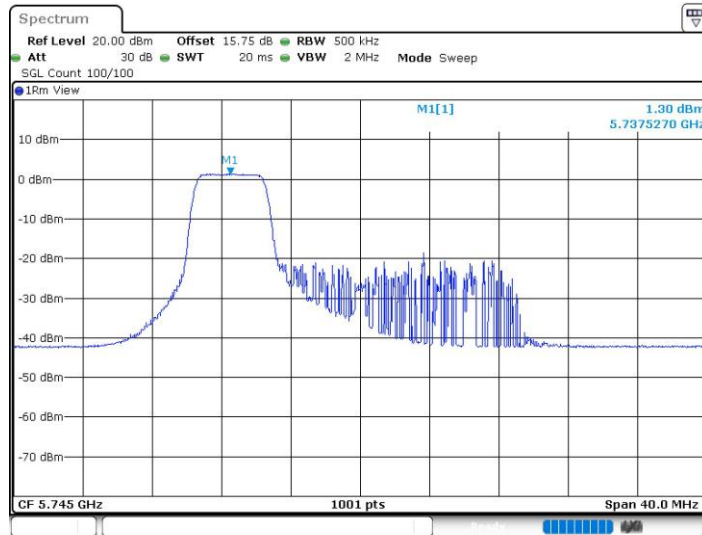
Date: 27.JAN.2022 22:30:18



11AX20MIMO_Ant1_5745_26Tone_RU0

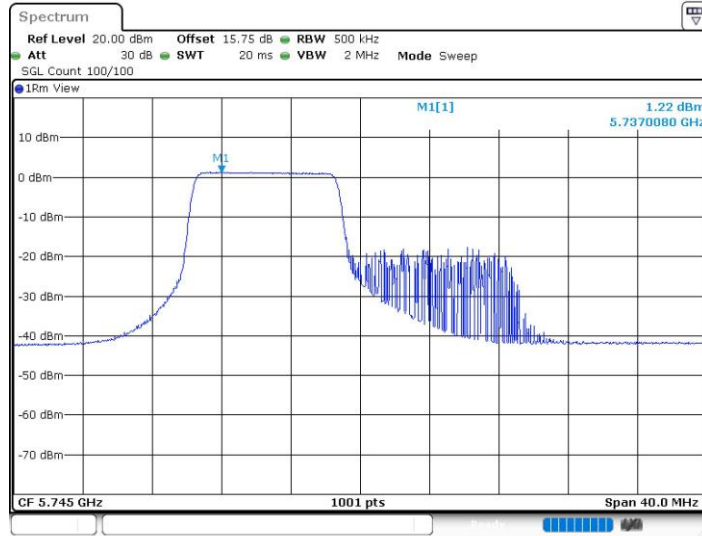


11AX20MIMO_Ant1_5745_52Tone_RU37



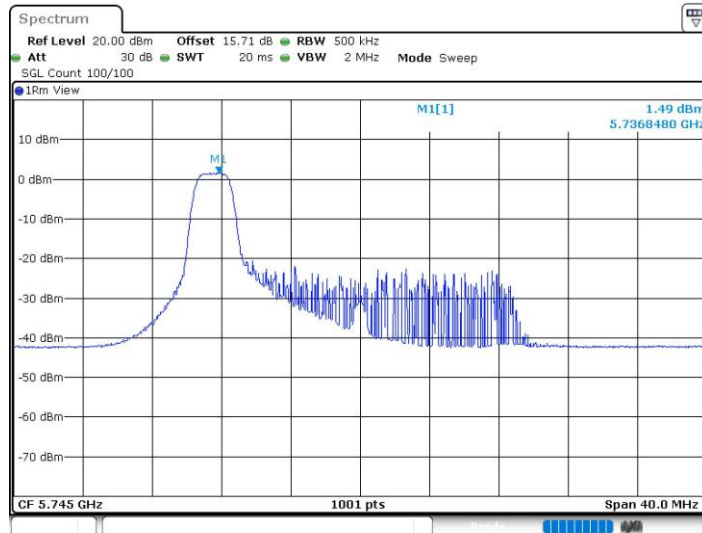


11AX20MIMO_Ant1_5745_106Tone_RU53



Date: 27.JAN.2022 22:05:41

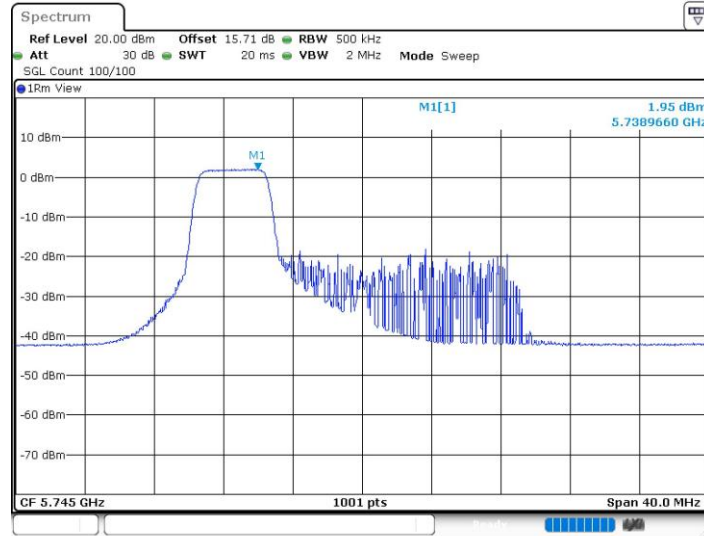
11AX20MIMO_Ant2_5745_26Tone_RU0



Date: 27.JAN.2022 19:05:26

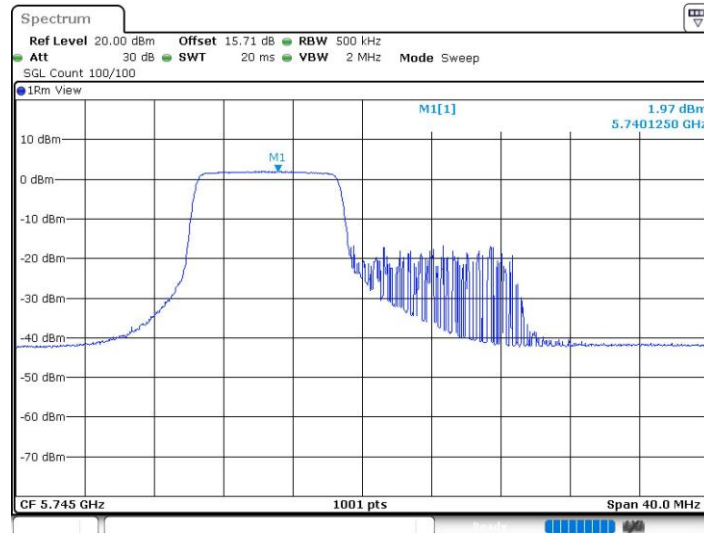


11AX20MIMO_Ant2_5745_52Tone_RU37



Date: 27.JAN.2022 20:12:26

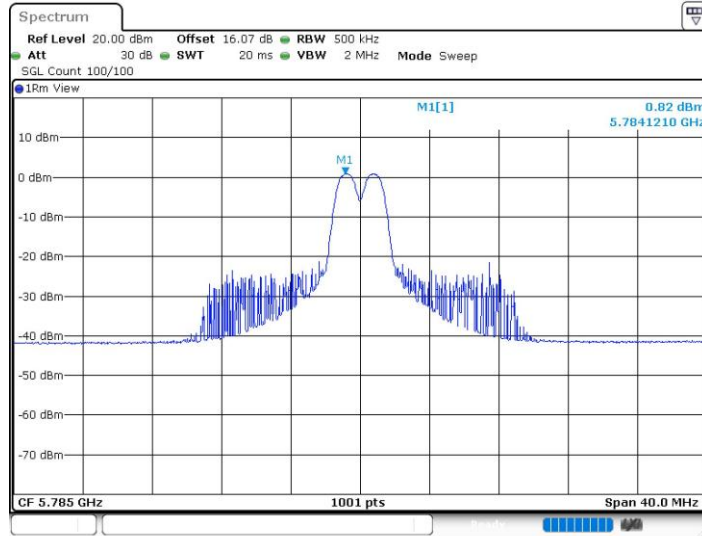
11AX20MIMO_Ant2_5745_106Tone_RU53



Date: 27.JAN.2022 22:06:24

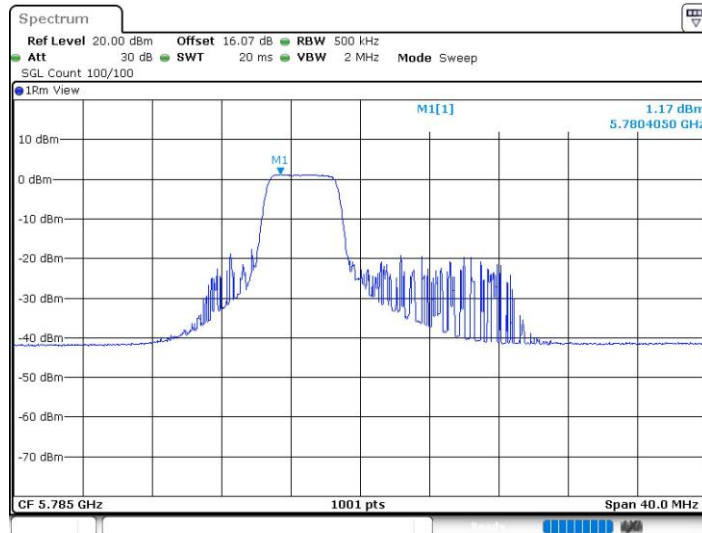


11AX20MIMO_Ant1_5785_26Tone_RU4



Date: 27.JAN.2022 18:57:04

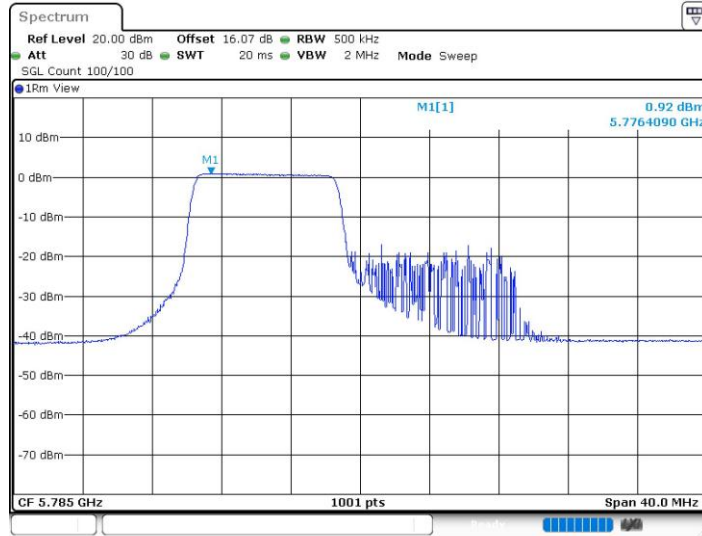
11AX20MIMO_Ant1_5785_52Tone_RU38



Date: 27.JAN.2022 20:40:55

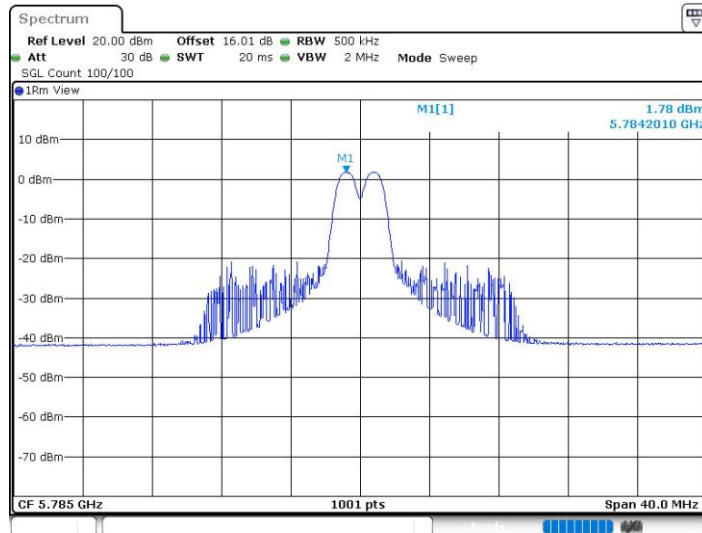


11AX20MIMO_Ant1_5785_106Tone_RU53



Date: 27.JAN.2022 22:17:07

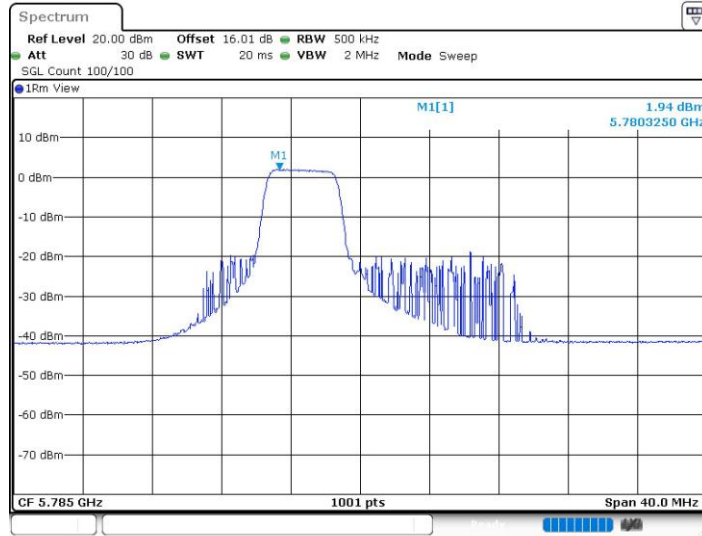
11AX20MIMO_Ant2_5785_26Tone_RU4



Date: 27.JAN.2022 18:57:44

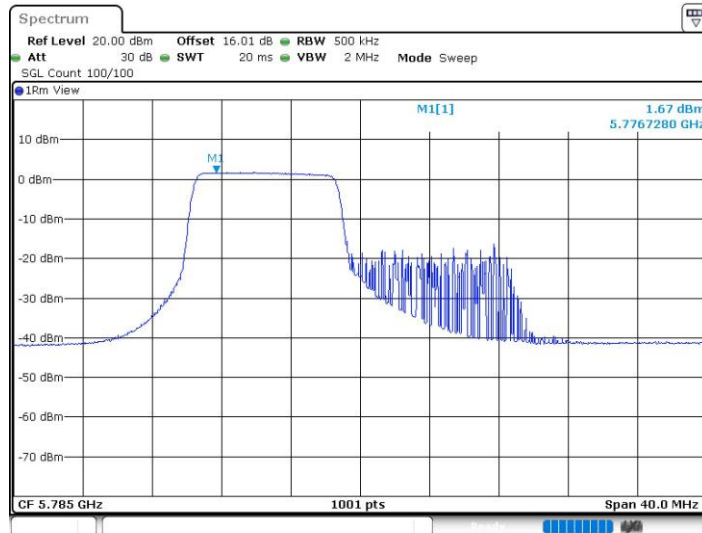


11AX20MIMO_Ant2_5785_52Tone_RU38



Date: 27.JAN.2022 20:41:36

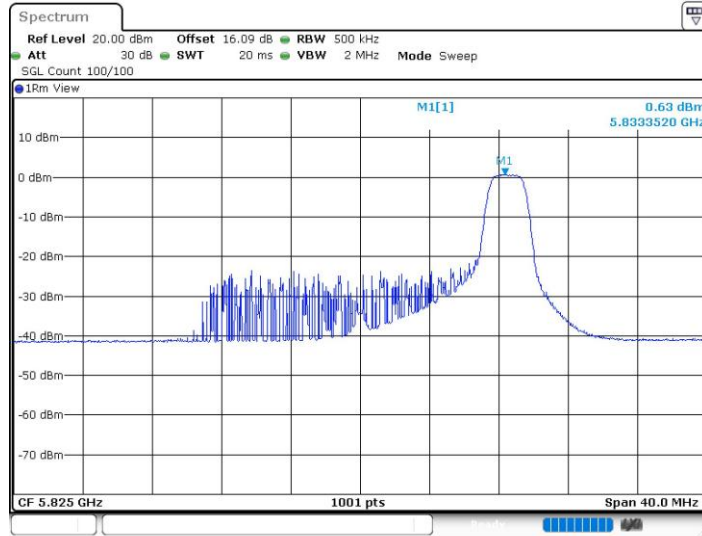
11AX20MIMO_Ant2_5785_106Tone_RU53



Date: 27.JAN.2022 22:17:21

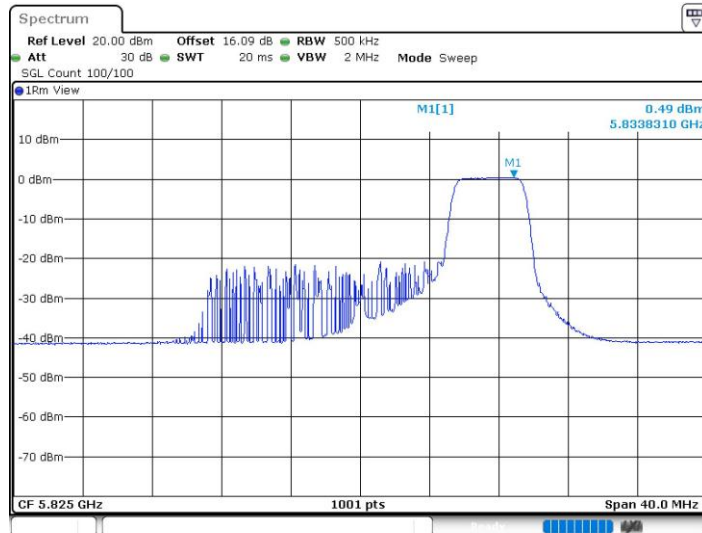


11AX20MIMO_Ant1_5825_26Tone_RU8



Date: 27.JAN.2022 19:36:31

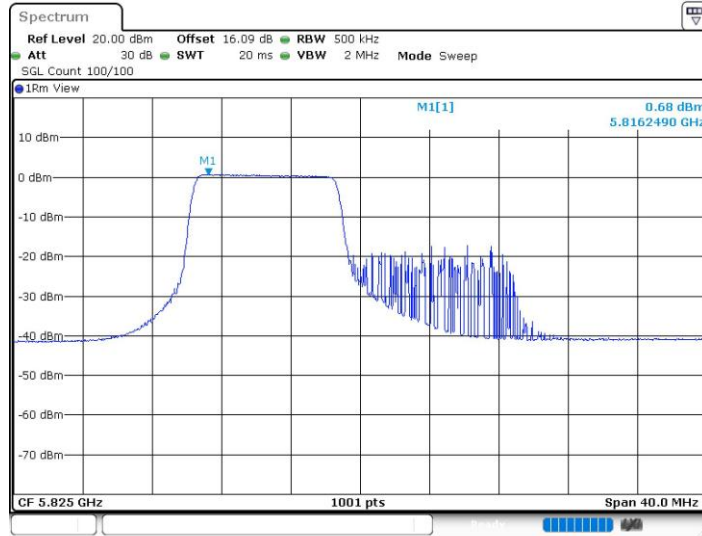
11AX20MIMO_Ant1_5825_52Tone_RU40



Date: 27.JAN.2022 21:06:04

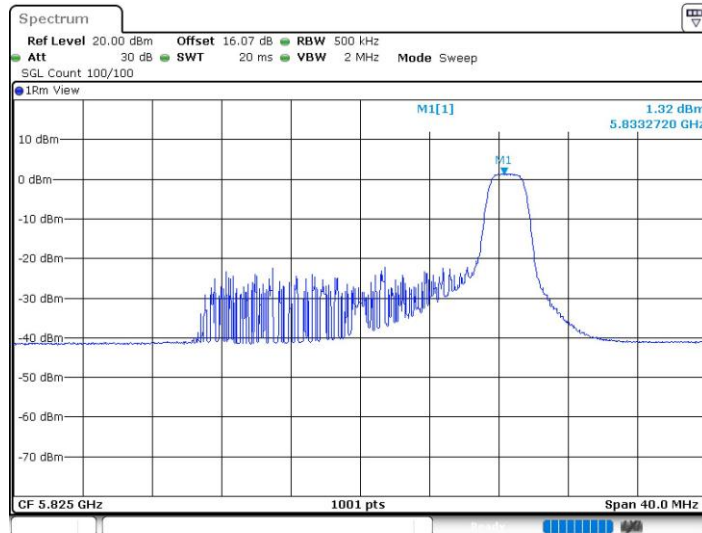


11AX20MIMO_Ant1_5825_106Tone_RU54



Date: 27.JAN.2022 22:34:45

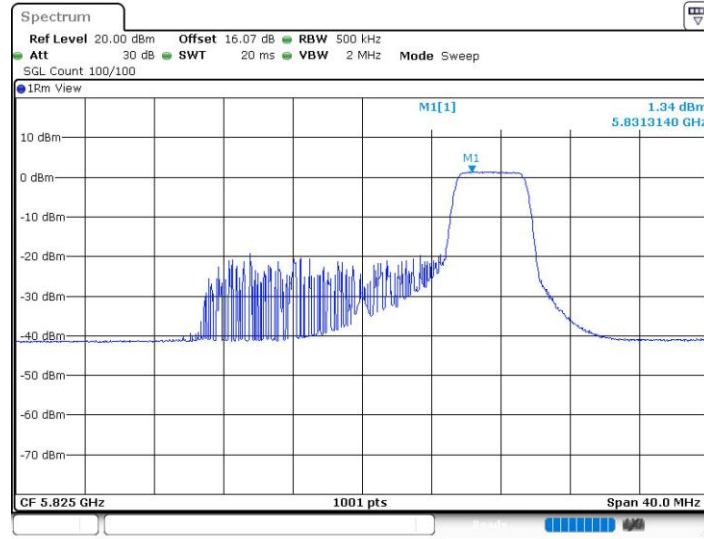
11AX20MIMO_Ant2_5825_26Tone_RU8



Date: 27.JAN.2022 19:37:12

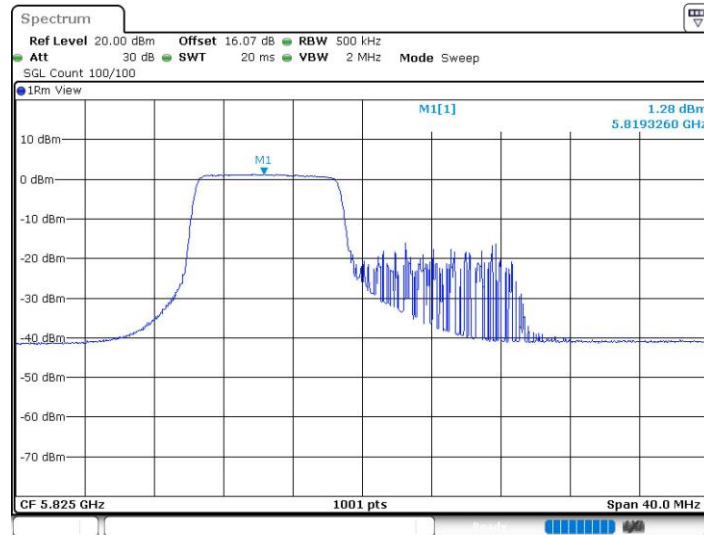


11AX20MIMO_Ant2_5825_52Tone_RU40



Date: 27.JAN.2022 21:08:45

11AX20MIMO_Ant2_5825_106Tone_RU54

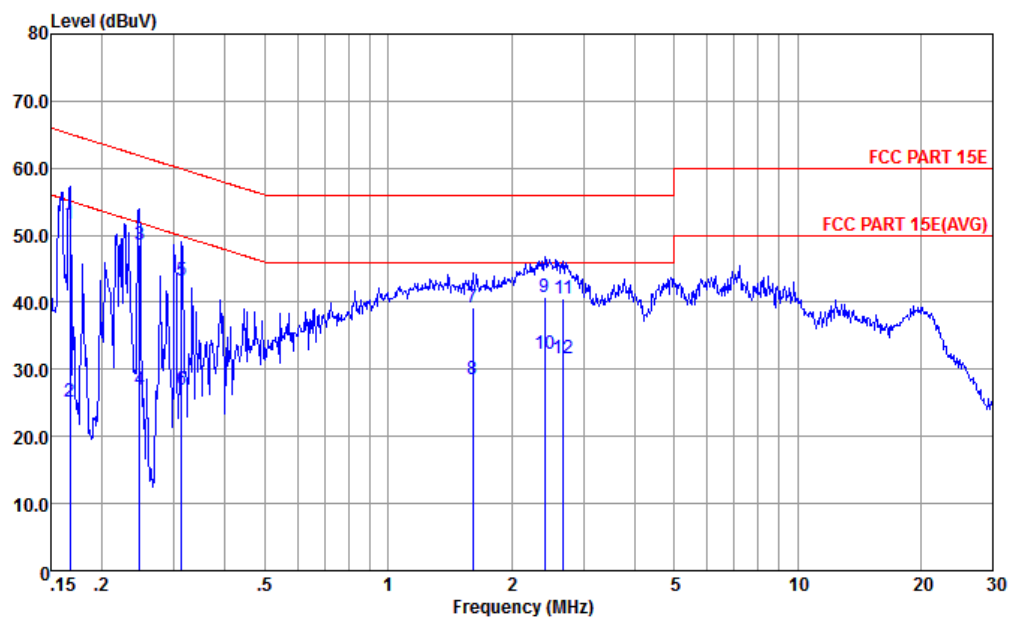


Date: 27.JAN.2022 22:35:27



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 :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

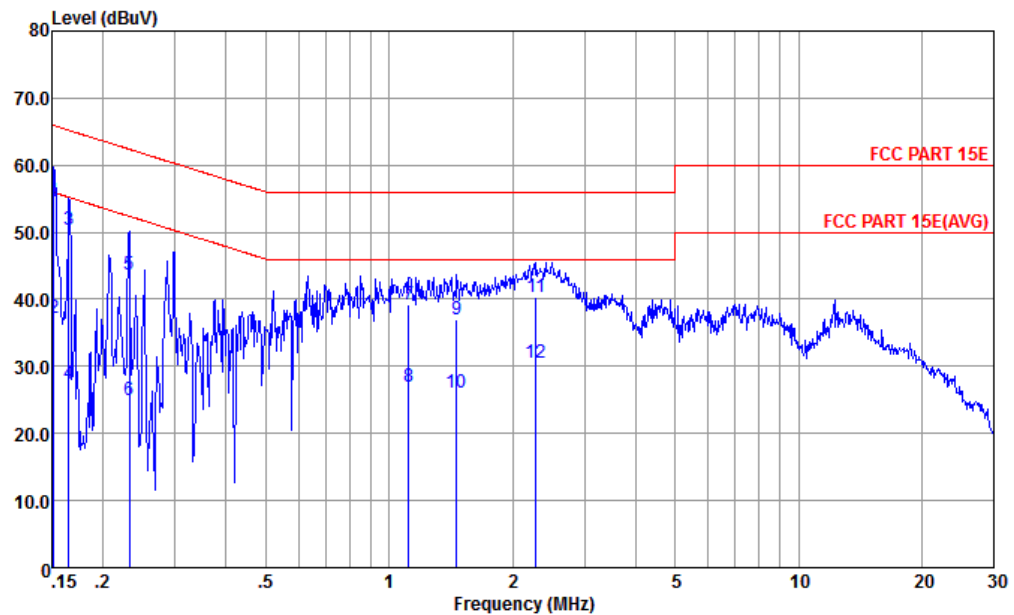


Site : CO01-KS
Condition : FCC PART 15E LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.167	51.66	-13.46	65.12	41.19	0.03	10.44	QP
2	0.167	25.26	-29.86	55.12	14.79	0.03	10.44	Average
3 *	0.247	48.49	-13.37	61.86	38.09	0.06	10.34	QP
4	0.247	26.89	-24.97	51.86	16.49	0.06	10.34	Average
5	0.313	43.17	-16.71	59.88	32.80	0.07	10.30	QP
6	0.313	26.87	-23.01	49.88	16.50	0.07	10.30	Average
7	1.610	39.17	-16.83	56.00	28.80	0.14	10.23	QP
8	1.610	28.57	-17.43	46.00	18.20	0.14	10.23	Average
9	2.409	40.88	-15.12	56.00	30.51	0.14	10.23	QP
10	2.409	32.28	-13.72	46.00	21.91	0.14	10.23	Average
11	2.678	40.58	-15.42	56.00	30.19	0.15	10.24	QP
12	2.678	31.58	-14.42	46.00	21.19	0.15	10.24	Average



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	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 *	0.152	54.49	-11.42	65.91	43.90	0.11	10.48	QP
2	0.152	37.19	-18.72	55.91	26.60	0.11	10.48	Average
3	0.165	50.45	-14.76	65.21	39.90	0.11	10.44	QP
4	0.165	27.35	-27.86	55.21	16.80	0.11	10.44	Average
5	0.232	43.64	-18.75	62.39	33.20	0.10	10.34	QP
6	0.232	24.94	-27.45	52.39	14.50	0.10	10.34	Average
7	1.117	39.26	-16.74	56.00	28.91	0.12	10.23	QP
8	1.117	26.96	-19.04	46.00	16.61	0.12	10.23	Average
9	1.464	36.96	-19.04	56.00	26.60	0.13	10.23	QP
10	1.464	26.16	-19.84	46.00	15.80	0.13	10.23	Average
11	2.285	40.28	-15.72	56.00	29.91	0.14	10.23	QP
12	2.285	30.58	-15.42	46.00	20.21	0.14	10.23	Average

Note:

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



Appendix C. Radiated Spurious Emission

UNII-1 - 5150~5250MHz

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full CH 38 5190MHz		5148.64	64.95	-9.05	74	60.76	34.4	10.62	40.83	150	117	P	H
		5147.84	50.91	-3.09	54	46.72	34.4	10.62	40.83	150	117	A	H
	*	5200	108.51	-	-	104.25	34.5	10.64	40.88	150	117	P	H
		5200	100.73	-	-	96.47	34.5	10.64	40.88	150	117	A	H
		5397.66	50.28	-23.72	74	46.06	34.5	10.89	41.17	150	117	P	H
		5350.32	40.02	-13.98	54	35.79	34.5	10.83	41.1	150	117	A	H
		5149.76	63.7	-10.3	74	59.51	34.4	10.62	40.83	290	58	P	V
		5149.12	50.27	-3.73	54	46.08	34.4	10.62	40.83	290	58	A	V
	*	5200	108.75	-	-	104.49	34.5	10.64	40.88	290	58	P	V
		5200	100.57	-	-	96.31	34.5	10.64	40.88	290	58	A	V
		5353.56	50.76	-23.24	74	46.53	34.5	10.83	41.1	290	58	P	V
		5350.32	40.09	-13.91	54	35.86	34.5	10.83	41.1	290	58	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full CH 38 5190MHz		10377	43.27	-25.03	68.3	56.07	37.43	16.21	66.44	300	0	P	H
		10377	43.5	-24.8	68.3	56.3	37.43	16.21	66.44	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-1 5150~5250MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 15+16	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 HE160 Full CH 50 5250MHz		5119.52	59.24	-14.76	74	55.1	34.33	10.61	40.8	100	119	P	H
		5147.36	47.41	-6.59	54	43.22	34.4	10.62	40.83	100	119	A	H
		5260	102.15	-	-	97.9	34.5	10.72	40.97	100	119	P	H
		5260	93.24	-	-	88.99	34.5	10.72	40.97	100	119	A	H
		5365.26	58.49	-15.51	74	54.26	34.5	10.85	41.12	100	119	P	H
		5383.44	48.93	-5.07	54	44.71	34.5	10.87	41.15	100	119	A	H
		5125.12	58.54	-15.46	74	54.37	34.37	10.61	40.81	320	74	P	V
		5139.2	47.63	-6.37	54	43.47	34.37	10.61	40.82	320	74	A	V
		5284	101.16	-	-	96.93	34.5	10.74	41.01	320	74	P	V
		5284	93.11	-	-	88.88	34.5	10.74	41.01	320	74	A	V
		5392.98	56.4	-17.6	74	52.2	34.5	10.87	41.17	320	74	P	V
		5119.52	59.24	-14.76	74	55.1	34.33	10.61	40.8	100	119	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 15+16	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 HE160 Full CH 50 5250MHz		10498	43.97	-24.33	68.3	56.43	37.56	16.29	66.31	300	0	P	H
		10498	43.63	-24.67	68.3	56.09	37.56	16.29	66.31	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-2A - 5250~5350MHz

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

WIFI Ant. 15+16	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 58 5290MHz		5111.68	52.25	-21.75	74	48.1	34.33	10.61	40.79	100	117	P	H
		5150	41.54	-12.46	54	37.35	34.4	10.62	40.83	100	117	A	H
	*	5278	105.07	-	-	100.83	34.5	10.74	41	100	117	P	H
		5278	99.76	-	-	95.52	34.5	10.74	41	100	117	A	H
		5351.1	60.64	-13.36	74	56.41	34.5	10.83	41.1	100	117	P	H
		5351	49.76	-4.24	54	45.53	34.5	10.83	41.1	100	117	A	H
		5147.04	52.74	-21.26	74	48.55	34.4	10.62	40.83	319	74	P	V
		5150	41.57	-12.43	54	37.38	34.4	10.62	40.83	319	74	A	V
	*	5308	105.29	-	-	101.06	34.5	10.77	41.04	319	74	P	V
		5308	99.7	-	-	95.47	34.5	10.77	41.04	319	74	A	V
		5351.1	56.74	-17.26	74	52.51	34.5	10.83	41.1	319	74	P	V
		5351.8	46.25	-7.75	54	42.02	34.5	10.83	41.1	319	74	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 15+16	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 58 5290MHz		10575	44.53	-23.77	68.3	56.8	37.63	16.33	66.23	300	0	P	H
		10575	44.82	-23.48	68.3	57.09	37.63	16.33	66.23	100	0	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 (Band Edge @ 3m)

WIFI Ant. 15+16	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 Full CH 100 5500MHz		5457.84	62.71	-11.29	74	57.02	34.53	12.5	41.34	137	115	P	H
		5462.48	65.08	-3.22	68.3	59.4	34.53	12.5	41.35	137	115	P	H
		5460	49.7	-4.3	54	44.01	34.53	12.5	41.34	137	115	A	H
	*	5494	115.34	-	-	109.71	34.54	12.53	41.44	137	115	P	H
		5494	106.74	-	-	101.11	34.54	12.53	41.44	137	115	A	H
		5459.98	59.25	-14.75	74	53.56	34.53	12.5	41.34	336	73	P	V
		5470	65.27	-3.03	68.3	59.6	34.53	12.51	41.37	336	73	P	V
		5460	48.74	-5.26	54	43.05	34.53	12.5	41.34	336	73	A	V
	*	5500	115.24	-	-	109.61	34.55	12.54	41.46	336	73	P	V
		5500	105.69	-	-	100.06	34.55	12.54	41.46	336	73	A	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 (Harmonic @ 3m)

WIFI Ant. 15+16	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 Full CH 100 5500MHz		11004	44.56	-29.44	74	55.59	38.1	16.6	65.73	300	0	P	H
		11004	48.67	-25.33	74	59.7	38.1	16.6	65.73	100	0	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 Partial 106 (Band Edge @ 3m)

WIFI Ant. 15+16	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		5729.4	56.68	-11.62	68.3	47.13	34.97	11.18	36.6	101	114	P	H
HE20		5710	113.86	-	-	104.33	34.95	11.16	36.58	101	114	P	H
Partial		5710	106.28	-	-	96.75	34.95	11.16	36.58	101	114	A	H
106/54		5737.24	50.62	-17.68	68.3	41.07	34.99	11.18	36.62	363	70	P	V
CH 140		5710	112.01	-	-	102.48	34.95	11.16	36.58	363	70	P	V
5700MHz		5710	103.4	-	-	93.87	34.95	11.16	36.58	363	70	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 Ant. 15+16	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 Full LF		32.91	17.14	-22.86	40	26.58	22.22	0.54	32.2	-	-	P	H
		157.07	16.37	-27.13	43.5	29.76	16.9	1.81	32.1	-	-	P	H
		247.28	17.56	-28.44	46	29.26	18.2	2.29	32.19	-	-	P	H
		326.82	19.36	-26.64	46	28.87	20	2.64	32.15	-	-	P	H
		475.23	20.06	-25.94	46	25.59	23.6	3.17	32.3	-	-	P	H
		552.83	22.27	-23.73	46	25.81	25.34	3.42	32.3	-	-	P	H
		45.52	22.71	-17.29	40	37.52	16.68	0.71	32.2	-	-	P	V
		85.29	19.23	-20.77	40	35.77	14.3	1.26	32.1	-	-	P	V
		150.28	16.93	-26.57	43.5	30.3	16.96	1.77	32.1	-	-	P	V
		180.35	17.88	-25.62	43.5	32.07	15.96	1.95	32.1	-	-	P	V
		373.38	18.28	-27.72	46	26.5	21.21	2.82	32.25	-	-	P	V
		936.95	27.12	-18.88	46	25.09	29.78	4.45	32.2	-	-	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5647.2	53.84	-14.46	68.3	48.28	34.67	12.8	41.91	100	115	P	H
		5699.6	73.66	-31.35	105.01	68.08	34.78	12.88	42.08	100	115	P	H
		5718	81.69	-28.65	110.34	76.07	34.85	12.91	42.14	100	115	P	H
		5722.4	84.31	-32.06	116.37	78.71	34.85	12.92	42.17	100	115	P	H
		5740	115.29	-	-	109.68	34.89	12.95	42.23	100	115	P	H
		5740	108	-	-	102.39	34.89	12.95	42.23	100	115	A	H
		5642.4	52.58	-15.72	68.3	47.01	34.67	12.79	41.89	300	82	P	V
		5698.8	67.21	-37.21	104.42	61.63	34.78	12.88	42.08	300	82	P	V
		5713.6	78.76	-30.35	109.11	73.15	34.82	12.91	42.12	300	82	P	V
		5723.6	83.71	-35.4	119.11	78.11	34.85	12.92	42.17	300	82	P	V
		5746	112.91	-	-	107.29	34.89	12.96	42.23	300	82	P	V
		5746	105.82	-	-	100.2	34.89	12.96	42.23	300	82	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-3 5725~5850MHz

WIFI 802.11a (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.	
15+16		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		11490	46.42	-27.58	74	56.39	38.39	17.09	65.45	300	0	P	H
CH 149		11490	49.35	-24.65	74	59.32	38.39	17.09	65.45	100	0	P	V
5745MHz													
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. 15+16	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 149 5745MHz		5605.2	51.31	-16.99	68.3	41.97	34.82	11	36.48	112	242	P	H
		5692	51.95	-47.45	99.4	42.45	34.93	11.13	36.56	112	242	P	H
		5702.4	51.53	-54.44	105.97	42.03	34.95	11.13	36.58	112	242	P	H
		5723.2	56.16	-62.04	118.2	46.61	34.97	11.18	36.6	112	242	P	H
		5740	113.93	-	-	104.38	34.99	11.18	36.62	112	242	P	H
		5740	105.89	-	-	96.34	34.99	11.18	36.62	112	242	A	H
		5620.8	50.39	-17.91	68.3	41.01	34.84	11.03	36.49	295	72	P	V
		5676	50.07	-37.51	87.58	40.6	34.91	11.11	36.55	295	72	P	V
		5718	53.54	-56.8	110.34	44.01	34.97	11.16	36.6	295	72	P	V
		5721.6	57.38	-57.17	114.55	47.83	34.97	11.18	36.6	295	72	P	V
		5746	108.85	-	-	99.27	34.99	11.21	36.62	295	72	P	V
		5746	100.88	-	-	91.3	34.99	11.21	36.62	295	72	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_Full (Band Edge @ 3m)

WIFI Ant. 15+16	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 151 5755MHz		5632.4	54.37	-13.93	68.3	48.81	34.64	12.77	41.85	111	117	P	H
		5681.2	58.01	-33.42	91.43	52.43	34.75	12.85	42.02	111	117	P	H
		5718.4	63.35	-47.1	110.45	57.73	34.85	12.91	42.14	111	117	P	H
		5724.8	64.75	-57.09	121.84	59.15	34.85	12.92	42.17	111	117	P	H
		5752	111.27	-	-	105.62	34.93	12.97	42.25	111	117	P	H
		5752	102.51	-	-	96.86	34.93	12.97	42.25	111	117	A	H
		5853.2	52.6	-62.4	115	46.93	35.08	13.14	42.55	111	117	P	H
		5862.8	53.91	-54.8	108.71	48.23	35.1	13.15	42.57	111	117	P	H
		5884	52.89	-45.73	98.62	47.2	35.12	13.2	42.63	111	117	P	H
		5962	52.37	-15.93	68.3	46.59	35.25	13.33	42.8	111	117	P	H



		5643.2	52.22	-16.08	68.3	46.65	34.67	12.79	41.89	287	78	P	V
		5698.4	55.12	-49	104.12	49.54	34.78	12.88	42.08	287	78	P	V
		5719.6	60.75	-50.04	110.79	55.12	34.85	12.92	42.14	287	78	P	V
		5724.8	63.5	-58.34	121.84	57.9	34.85	12.92	42.17	287	78	P	V
		5740	108.84	-	-	103.23	34.89	12.95	42.23	287	78	P	V
		5740	100.53	-	-	94.92	34.89	12.95	42.23	287	78	A	V
		5850	50.89	-71.41	122.3	45.22	35.08	13.13	42.54	287	78	P	V
		5858.4	53.15	-56.8	109.95	47.47	35.1	13.15	42.57	287	78	P	V
		5890.8	53.73	-39.84	93.57	48.01	35.15	13.21	42.64	287	78	P	V
		5958.8	53.46	-14.84	68.3	47.69	35.25	13.32	42.8	287	78	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_Full (Harmonic @ 3m)

WIFI Ant. 15+16	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		11510	44.8	-29.2	74	54.73	38.41	17.11	65.45	300	0	P	H
HE40 Full CH 151 5755MHz		11510	45.69	-28.31	74	55.62	38.41	17.11	65.45	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_Full (Band Edge @ 3m)

WIFI Ant. 15+16	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 155 5775MHz		5647.2	53.32	-14.98	68.3	47.76	34.67	12.8	41.91	112	115	P	H
		5699.6	58.47	-46.54	105.01	52.89	34.78	12.88	42.08	112	115	P	H
		5712	60.54	-48.12	108.66	54.94	34.82	12.9	42.12	112	115	P	H
		5721.2	59.57	-54.07	113.64	53.94	34.85	12.92	42.14	112	115	P	H
		5752	107.67	-	-	102.02	34.93	12.97	42.25	112	115	P	H
		5752	97.93	-	-	92.28	34.93	12.97	42.25	112	115	A	H
		5852	59.71	-58.03	117.74	54.04	35.08	13.14	42.55	112	115	P	H
		5860.8	60.26	-49.01	109.27	54.58	35.1	13.15	42.57	112	115	P	H
		5876.8	53.65	-50.31	103.96	47.95	35.12	13.19	42.61	112	115	P	H
		5976.4	53.4	-14.9	68.3	47.63	35.27	13.35	42.85	112	115	P	H
		5604.8	53.33	-14.97	68.3	47.78	34.6	12.71	41.76	287	79	P	V
		5689.2	52.99	-44.35	97.34	47.38	34.78	12.87	42.04	287	79	P	V
		5712.8	55.38	-53.51	108.89	49.78	34.82	12.9	42.12	287	79	P	V
		5720	55.18	-55.72	110.9	49.55	34.85	12.92	42.14	287	79	P	V
		5752	104.04	-	-	98.39	34.93	12.97	42.25	287	79	P	V
		5752	95.9	-	-	90.25	34.93	12.97	42.25	287	79	A	V
		5851.2	53.97	-65.59	119.56	48.29	35.08	13.14	42.54	287	79	P	V
		5855.2	53.77	-57.07	110.84	48.08	35.1	13.14	42.55	287	79	P	V
		5894.4	52.71	-38.2	90.91	46.98	35.15	13.22	42.64	287	79	P	V
		5952	53.39	-14.91	68.3	47.65	35.22	13.31	42.79	287	79	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_Full (Harmonic @ 3m)

WIFI Ant. 15+16	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		11554	45.03	-28.97	74	54.85	38.44	17.16	65.42	300	0	P	H
HE80 Full CH 155 5775MHz		11554	44.52	-29.48	74	54.34	38.44	17.16	65.42	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 802.11ax HE40 Full (LF @ 3m)

WIFI Ant. 15+16	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 LF		32.91	17.14	-22.86	40	26.58	22.22	0.54	32.2	-	-	P	H
		86.26	13.04	-26.96	40	29.49	14.42	1.27	32.14	-	-	P	H
		157.07	16.37	-27.13	43.5	29.76	16.9	1.81	32.1	-	-	P	H
		230.79	17.67	-28.33	46	30.37	17.25	2.21	32.16	-	-	P	H
		325.85	19.65	-26.35	46	29.18	19.98	2.64	32.15	-	-	P	H
		486.87	21.07	-24.93	46	26.38	23.83	3.21	32.35	-	-	P	H
		33.88	19.54	-20.46	40	29.23	21.96	0.55	32.2	-	-	P	V
		48.43	22.66	-17.34	40	38.68	15.43	0.75	32.2	-	-	P	V
		85.29	19.23	-20.77	40	35.77	14.3	1.26	32.1	-	-	P	V
		214.3	17.29	-26.21	43.5	31.17	16.11	2.14	32.13	-	-	P	V
		589.69	23.42	-22.58	46	26.33	25.85	3.54	32.3	-	-	P	V
		806	25.83	-20.17	46	25.6	28.41	4.13	32.31	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Simultaneous transmission>

Co-location--- WIFI 802.11ax HE20 Full &BLE&Part 96---LTE_B48_BW_20M

2.4GHz 2400~2483.5MHz

BLE---ANT 15 (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 2480MHz		2484.58	52.41	-21.59	74	51.46	32.12	8.33	39.5	204	288	P	H
		2483.5	44.5	-9.5	54	43.55	32.12	8.33	39.5	204	288	A	H
	*	2479	94.41	---	---	93.47	32.12	8.32	39.5	204	288	P	H
	*	2479	93.09	---	---	92.15	32.12	8.32	39.5	204	288	A	H
		2485.72	52.89	-21.11	74	51.93	32.12	8.34	39.5	179	28	P	V
		2483.5	44.31	-9.69	54	43.36	32.12	8.33	39.5	179	28	A	V
	*	2479	93.18	---	---	92.24	32.12	8.32	39.5	179	28	P	V
	*	2479	91.9	---	---	90.96	32.12	8.32	39.5	179	28	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

BLE---ANT 15 (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 2480MHz		4966	41.06	-32.94	74	61.52	34.1	10.89	65.45	100	0	P	H
		7440	42.88	-31.12	74	58.86	35.8	13.55	65.33	100	0	P	H
		4960	41.26	-32.74	74	61.72	34.1	10.89	65.45	300	0	P	V
		7444	42.97	-31.03	74	58.95	35.8	13.55	65.33	300	0	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 (Band Edge @ 3m)

WIFI Ant. 15+16	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 Full CH 100 5500MHz		5451.6	61.24	-12.76	74	55.54	34.53	12.49	41.32	251	244	P	H
		5469.84	64.62	-3.68	68.3	58.95	34.53	12.51	41.37	251	244	P	H
		5459.76	47.45	-6.55	54	41.76	34.53	12.5	41.34	251	244	A	H
	*	5506	108.96	---	---	103.34	34.55	12.55	41.48	251	244	P	H
		5506	100.17	---	---	94.55	34.55	12.55	41.48	251	244	A	H
		5458.32	60.34	-13.66	74	54.65	34.53	12.5	41.34	250	47	P	V
		5469.52	64.95	-3.35	68.3	59.28	34.53	12.51	41.37	250	47	P	V
		5459.98	46.24	-7.76	54	40.55	34.53	12.5	41.34	250	47	A	V
	*	5494	108.92	---	---	103.29	34.54	12.53	41.44	250	47	P	V
		5494	100.05	---	---	94.42	34.54	12.53	41.44	250	47	A	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(Harmonic @ 3m)

WIFI Ant. 15+16	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 Full CH 100 5500MHz		11004	44.05	-29.95	74	55.08	38.1	16.6	65.73	300	0	P	H
		11004	44.1	-29.9	74	55.13	38.1	16.6	65.73	100	0	P	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	P eak or A verage
H/V	H orizontal or V ertical



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.	
15+16		(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:

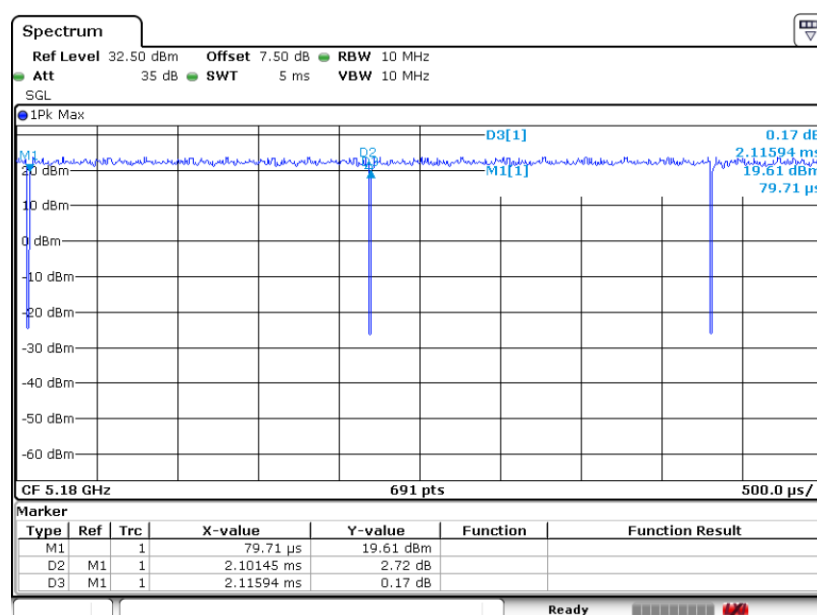
1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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

Appendix D. Duty Cycle Plots

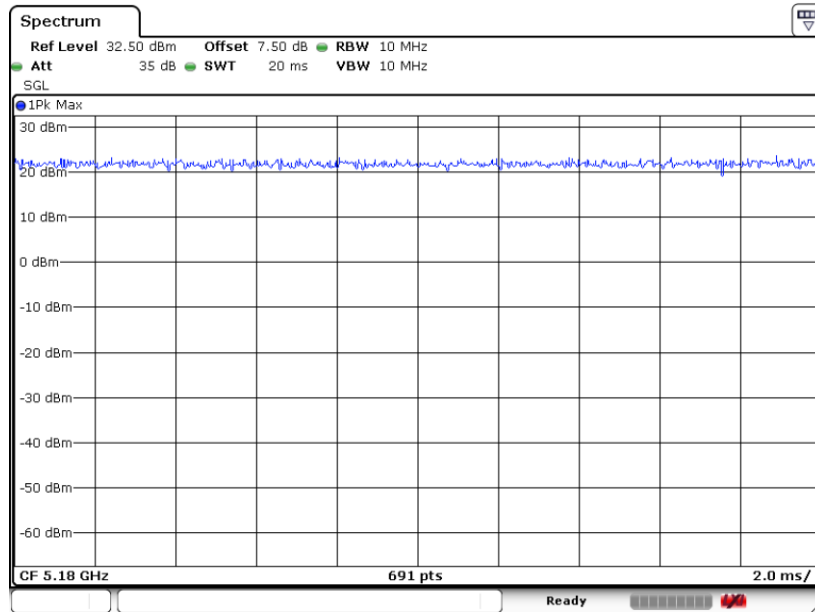
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	99.32	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz
802.11ax HE80	100	-	-	10Hz
802.11ax HE160	100	-	-	10Hz
802.11ax HE20-26ru	100	-	-	10Hz
802.11ax HE20-52ru	100	-	-	10Hz
802.11ax HE20-106ru	100	-	-	10Hz

802.11a



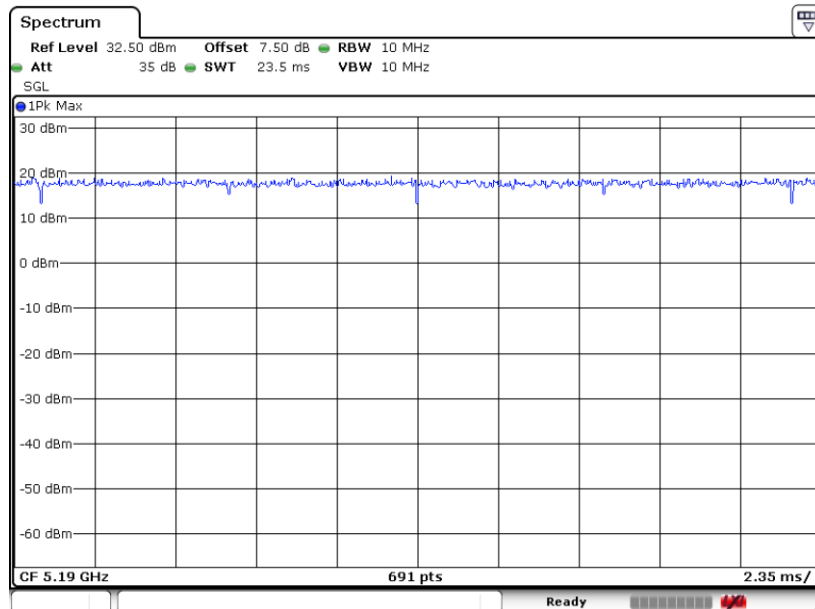
Date: 7.JAN.2022 21:15:58

802.11ax HE20



Date: 7. JAN. 2022 22:47:41

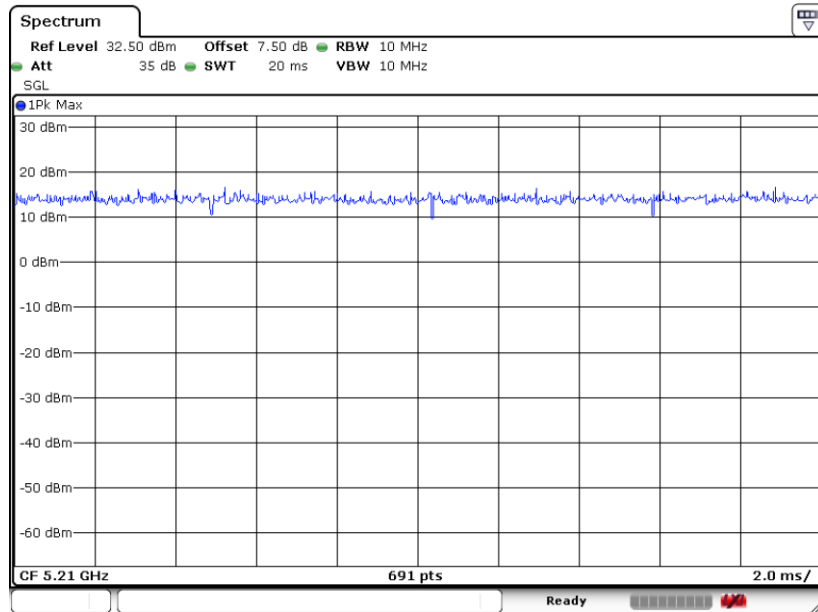
802.11ax HE40



Date: 8. JAN. 2022 00:02:58

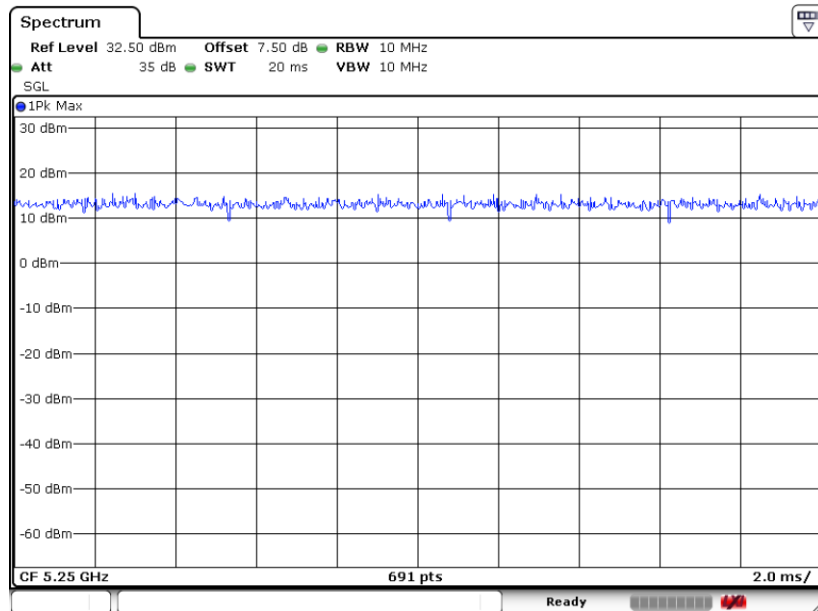


802.11ax HE80



Date: 8 JAN. 2022 00:50:52

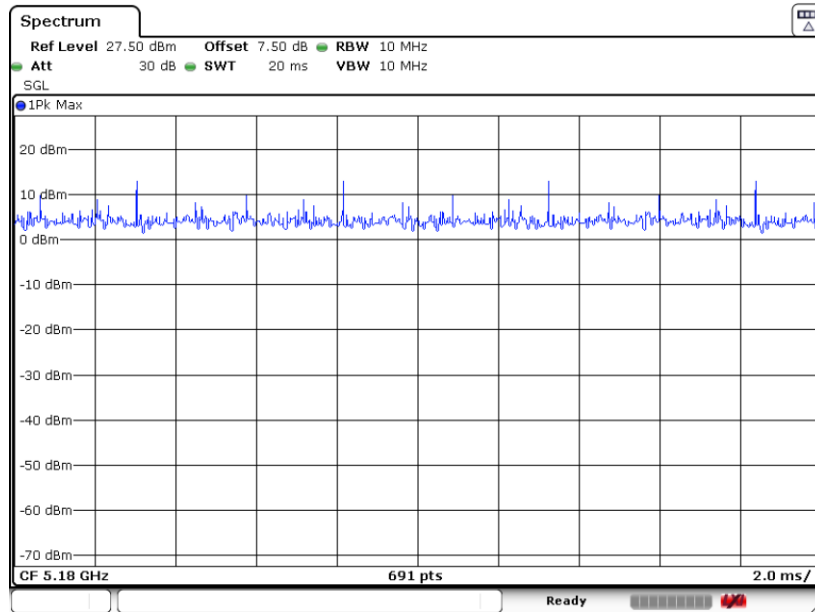
802.11ax HE160



Date: 8 JAN. 2022 01:05:43

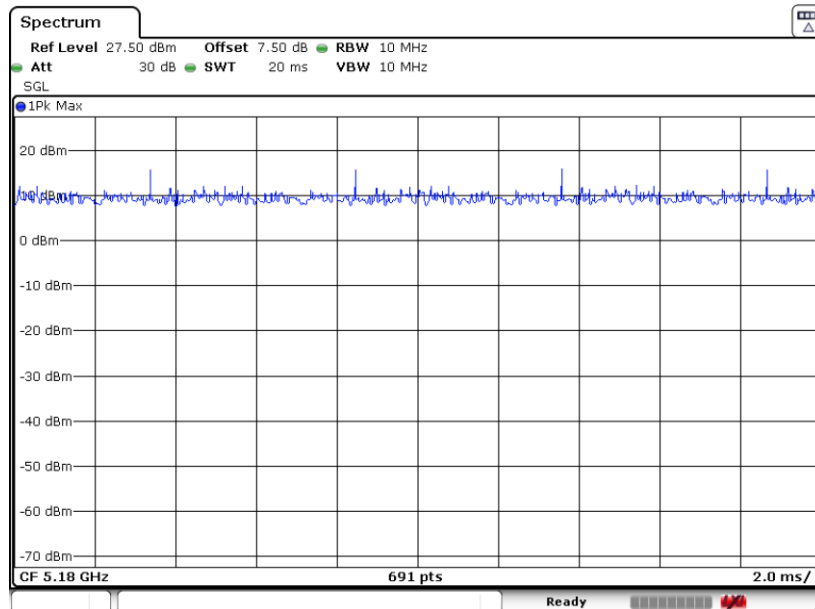


802.11ax HE20-26ru



Date: 1.FEB.2022 00:21:35

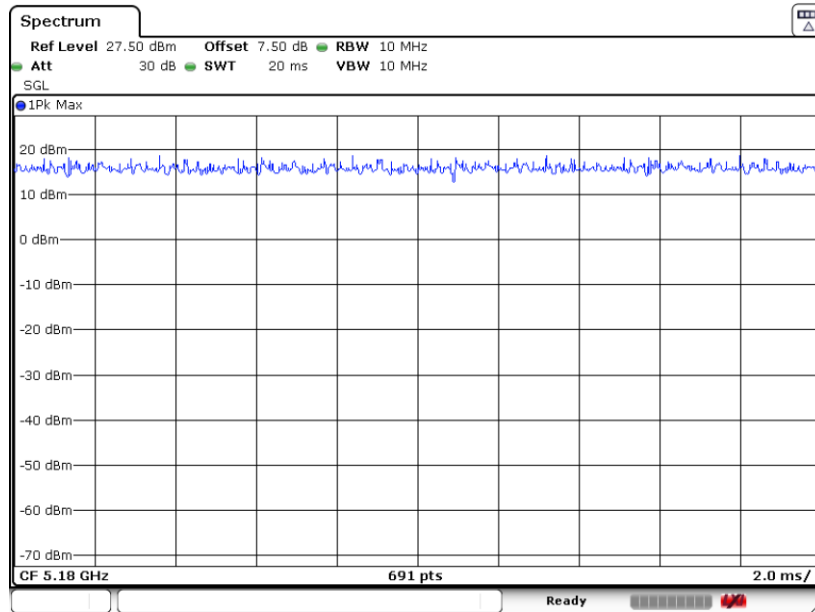
802.11ax HE20-52ru



Date: 1.FEB.2022 00:28:01



802.11ax HE20-106ru



Date: 1.FEB.2022 00:34:28