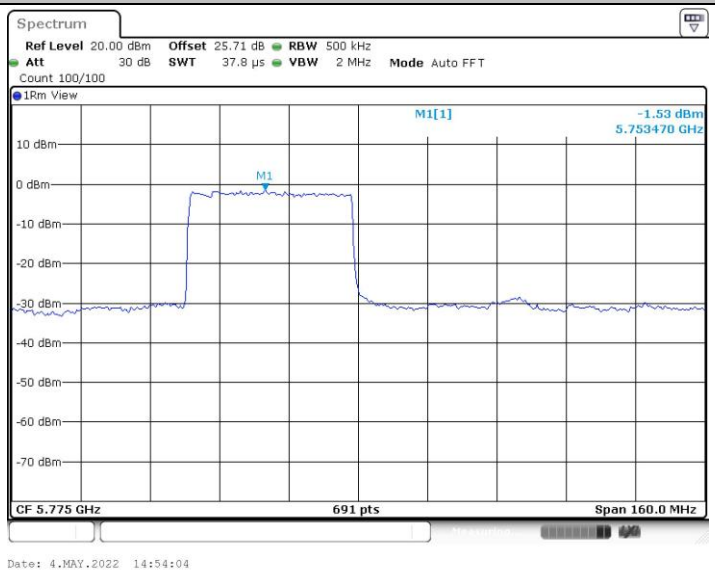
11AX40MIMO_Ant1_5795_242Tone_RU62

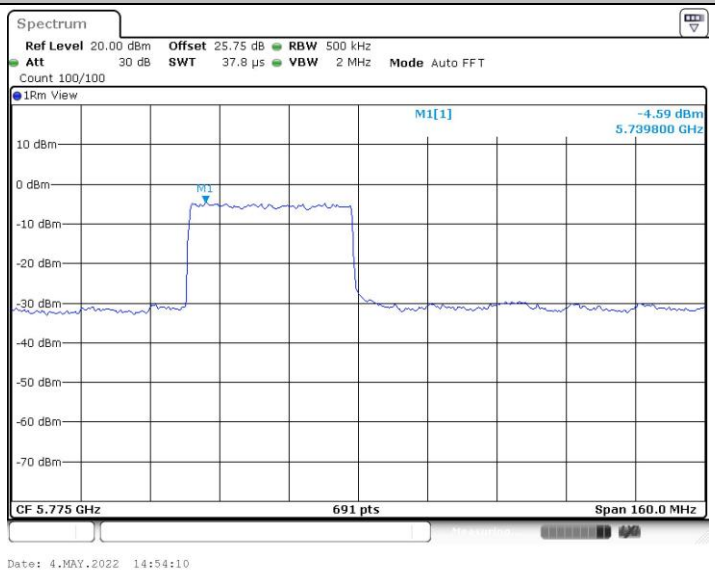
11AX40MIMO_Ant2_5795_242Tone_RU62

11AX80MIMO_Ant1_5775_484Tone_RU65

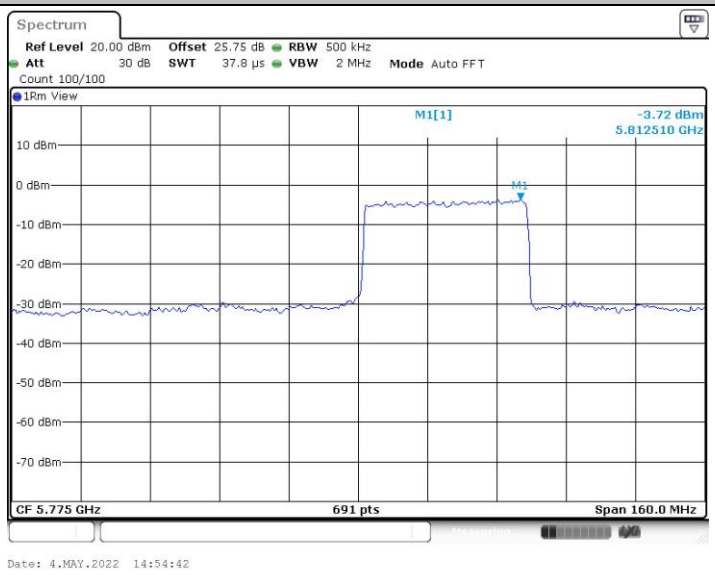


11AX80MIMO_Ant1_5775_484Tone_RU66

11AX80MIMO_Ant2_5775_484Tone_RU65

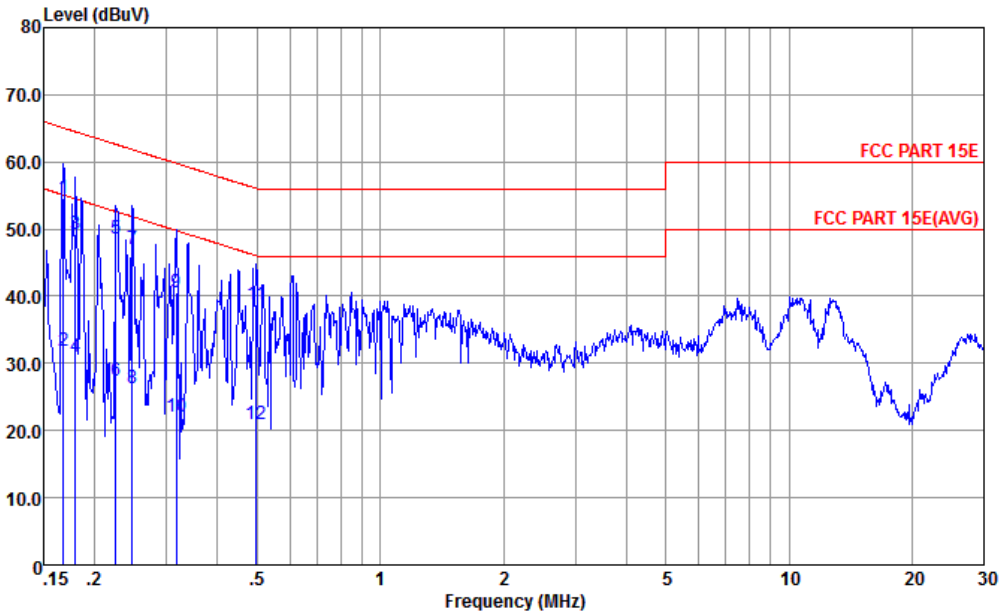


11AX80MIMO_Ant2_5775_484Tone_RU66



Appendix B. AC Conducted Emission Test Results

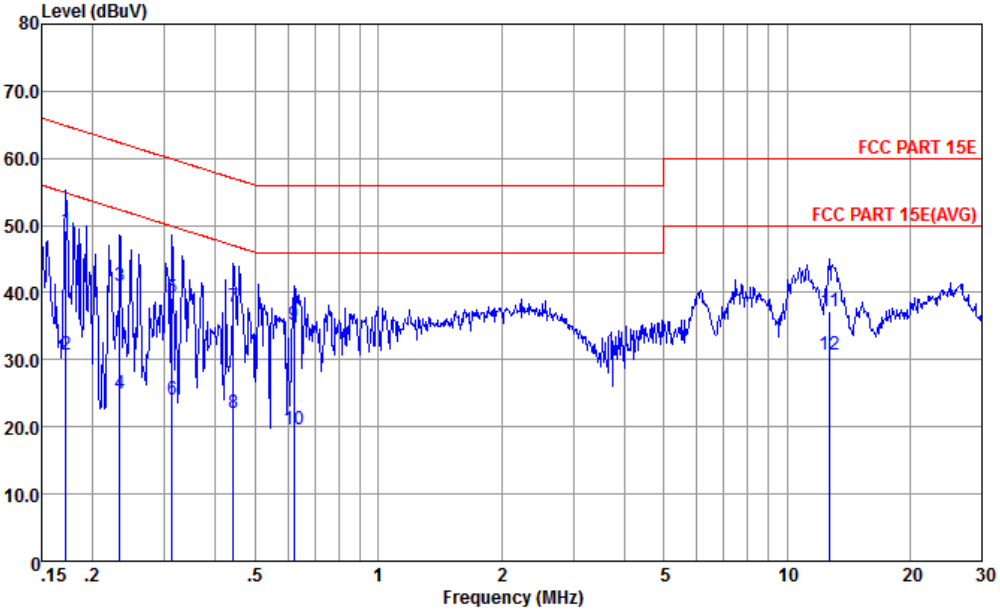
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



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

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.168	54.66	-10.42	65.08	44.20	0.03	10.43	QP
2		0.168	31.96	-23.12	55.08	21.50	0.03	10.43	Average
3		0.180	49.24	-15.26	64.50	38.80	0.03	10.41	QP
4		0.180	31.04	-23.46	54.50	20.60	0.03	10.41	Average
5		0.226	48.60	-14.01	62.61	38.20	0.05	10.35	QP
6		0.226	27.50	-25.11	52.61	17.10	0.05	10.35	Average
7		0.247	46.99	-14.87	61.86	36.59	0.06	10.34	QP
8		0.247	26.29	-25.57	51.86	15.89	0.06	10.34	Average
9		0.317	40.57	-19.23	59.80	30.20	0.07	10.30	QP
10		0.317	21.97	-27.83	49.80	11.60	0.07	10.30	Average
11		0.497	38.84	-17.21	56.05	28.50	0.10	10.24	QP
12		0.497	20.94	-25.11	46.05	10.60	0.10	10.24	Average

Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		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	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.172	49.33	-15.53	64.86	38.80	0.11	10.42	QP
2		0.172	30.73	-24.13	54.86	20.20	0.11	10.42	Average
3		0.233	40.94	-21.41	62.35	30.50	0.10	10.34	QP
4		0.233	25.04	-27.31	52.35	14.60	0.10	10.34	Average
5		0.313	39.20	-20.68	59.88	28.80	0.10	10.30	QP
6		0.313	24.00	-25.88	49.88	13.60	0.10	10.30	Average
7		0.442	37.86	-19.16	57.02	27.50	0.11	10.25	QP
8		0.442	21.96	-25.06	47.02	11.60	0.11	10.25	Average
9		0.621	35.25	-20.75	56.00	24.90	0.11	10.24	QP
10		0.621	19.65	-26.35	46.00	9.30	0.11	10.24	Average
11		12.716	37.25	-22.75	60.00	26.60	0.28	10.37	QP
12		12.716	30.85	-19.15	50.00	20.20	0.28	10.37	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

Only the worst results for each operation mode are shown in the report

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2+9	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	*	5830	113.61	-	-	100	35.13	10.43	31.95	101	228	P	H
	*	5830	106.36	-	-	92.75	35.13	10.43	31.95	101	228	A	H
		5852.4	73.31	-43.52	116.83	59.6	35.2	10.44	31.93	101	228	P	H
		5858.8	69.51	-40.32	109.83	55.77	35.23	10.46	31.95	101	228	P	H
		5883.2	60.24	-38.97	99.21	46.45	35.27	10.47	31.95	101	228	P	H
		5958.8	56.34	-11.96	68.3	42.4	35.4	10.55	32.01	101	228	P	H
	*	5824	107.73	-	-	94.12	35.13	10.43	31.95	282	97	P	V
	*	5824	99.55	-	-	85.94	35.13	10.43	31.95	282	97	A	V
		5852	60.02	-57.72	117.74	46.31	35.2	10.44	31.93	282	97	P	V
		5855.1	61.78	-49.09	110.87	48.02	35.23	10.46	31.93	282	97	P	V
		5883.2	55.84	-43.37	99.21	42.05	35.27	10.47	31.95	282	97	P	V
		5938	55.09	-13.21	68.3	41.21	35.37	10.52	32.01	282	97	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. 2+9	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		11653	46.26	-27.74	74	51.99	39.8	16.32	61.85	300	0	P	H
		11653	47.16	-26.84	74	52.89	39.8	16.32	61.85	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2+9	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)
		5642.4	59.95	-8.35	68.3	47.2	34.57	10.28	32.1	100	227	P	H
		5699.2	76.04	-28.67	104.71	63.08	34.7	10.32	32.06	100	227	P	H
		5717.6	83.56	-26.67	110.23	70.42	34.83	10.35	32.04	100	227	P	H
		5724.8	87.62	-34.22	121.84	74.48	34.83	10.35	32.04	100	227	P	H
	*	5752	110.29	-	-	97	34.93	10.37	32.01	100	227	P	H
	*	5752	103.19	-	-	89.9	34.93	10.37	32.01	100	227	A	H
		5852.8	63.92	-52	115.92	50.21	35.2	10.44	31.93	100	227	P	H
		5856.8	62.28	-48.12	110.4	44.35	35.33	14.53	31.93	100	227	P	H
802.11n		5875.2	57.69	-47.46	105.15	43.9	35.27	10.47	31.95	100	227	P	H
HT40		5973.2	55.58	-12.72	68.3	41.65	35.4	10.56	32.03	100	227	P	H
CH 151		5624.8	54.6	-13.7	68.3	41.89	34.53	10.26	32.08	273	87	P	V
5755MHz		5689.6	61.68	-35.95	97.63	48.72	34.7	10.32	32.06	273	87	P	V
		5718.8	78.99	-31.57	110.56	61.49	35.17	14.37	32.04	273	87	P	V
		5721.3	78.99	-34.87	113.86	61.49	35.17	14.37	32.04	273	87	P	V
	*	5752	102.11	-	-	88.82	34.93	10.37	32.01	273	87	P	V
	*	5752	95.16	-	-	81.87	34.93	10.37	32.01	273	87	A	V
		5854	55.64	-57.54	113.18	41.88	35.23	10.46	31.93	273	87	P	V
		5869.2	56.76	-50.16	106.92	43.02	35.23	10.46	31.95	273	87	P	V
		5885.2	56.76	-40.97	97.73	42.99	35.27	10.47	31.97	273	87	P	V
		5937.2	55.2	-13.1	68.3	41.32	35.37	10.52	32.01	273	87	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2+9	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)
802.11n HT40 CH 151 5755MHz		11510	43.63	-30.37	74	51.5	37.77	16.22	61.86	300	0	P	H
		11510	44.72	-29.28	74	52.59	37.77	16.22	61.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2+9	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)
		5626.8	59.04	-9.26	68.3	51.2	32.42	11.15	35.73	308	71	P	H
		5691.6	68.64	-30.47	99.11	60.67	32.49	11.23	35.75	308	71	P	H
		5703.6	74.06	-32.25	106.31	66.06	32.51	11.25	35.76	308	71	P	H
		5721.6	73.08	-41.47	114.55	65.06	32.52	11.27	35.77	308	71	P	H
		5850.8	72.67	-47.81	120.48	64.5	32.64	11.38	35.85	308	71	P	H
		5866	71.33	-36.49	107.82	63.14	32.66	11.39	35.86	308	71	P	H
		5877.2	64.31	-39.36	103.67	56.09	32.68	11.4	35.86	308	71	P	H
		5925.6	55.92	-12.38	68.3	47.64	32.73	11.43	35.88	308	71	P	H
802.11ac	*	5746	98.35	-	-	90.29	32.54	11.3	35.78	308	71	P	H
VHT80	*	5746	90.08	-	-	82.02	32.54	11.3	35.78	308	71	A	H
CH 155		5643.6	64.01	-4.29	68.3	56.12	32.44	11.17	35.72	100	220	P	V
5775MHz		5688.8	80.12	-16.92	97.04	72.15	32.49	11.23	35.75	100	220	P	V
		5711.2	79.44	-29	108.44	71.44	32.51	11.25	35.76	100	220	P	V
		5724.4	81.14	-39.79	120.93	73.12	32.52	11.27	35.77	100	220	P	V
		5854.4	78.35	-33.92	112.27	70.16	32.66	11.39	35.86	100	220	P	V
		5856.4	77.75	-32.76	110.51	69.56	32.66	11.39	35.86	100	220	P	V
		5876.4	70.77	-33.49	104.26	62.55	32.68	11.4	35.86	100	220	P	V
		5934.4	61.64	-6.66	68.3	53.36	32.73	11.43	35.88	100	220	P	V
	*	5794	103.7	-	-	95.57	32.59	11.36	35.82	100	220	P	V
	*	5794	95.47	-	-	87.34	32.59	11.36	35.82	100	220	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

UNII-3 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2+9	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)
802.11ac VHT80 CH 155 5775MHz		11554	43.85	-30.15	74	51.63	37.83	16.25	61.86	300	0	P	H
		11554	43.21	-30.79	74	50.99	37.83	16.25	61.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE20_Full RU (Band Edge @ 3m)

WIFI Ant. 2+9	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 165 5825MHz	*	5824	113.41	-	-	99.8	35.13	10.43	31.95	105	230	P	H
	*	5824	104.08	-	-	90.47	35.13	10.43	31.95	105	230	A	H
		5851.6	65.31	-53.34	118.65	51.6	35.2	10.44	31.93	105	230	P	H
		5862	63.31	-45.63	108.94	49.57	35.23	10.46	31.95	105	230	P	H
		5876.4	58.76	-45.5	104.26	44.97	35.27	10.47	31.95	105	230	P	H
		5943.2	57.2	-11.1	68.3	43.28	35.4	10.53	32.01	105	230	P	H
	*	5824	104.17	-	-	90.56	35.13	10.43	31.95	309	95	P	V
	*	5824	96.37	-	-	82.76	35.13	10.43	31.95	309	95	A	V
		5852	57.39	-60.35	117.74	43.68	35.2	10.44	31.93	309	95	P	V
		5874	56.92	-48.66	105.58	43.13	35.27	10.47	31.95	309	95	P	V
		5904.8	56.82	-26.39	83.21	42.95	35.33	10.51	31.97	309	95	P	V
		5925.2	56.18	-12.12	68.3	42.28	35.37	10.52	31.99	309	95	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE20 Full RU (Harmonic @ 3m)

WIFI Ant. 2+9	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 165 5825MHz		11653	45.15	-28.85	74	50.88	39.8	16.32	61.85	300	0	P	H
		11653	45.77	-28.23	74	51.5	39.8	16.32	61.85	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 2+9	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 26/8 CH 165 5825MHz	*	5836	120.19	-	-	106.56	35.13	10.43	31.93	100	229	P	H
	*	5836	113.18	-	-	99.55	35.13	10.43	31.93	100	229	A	H
		5850	60.56	-61.74	122.3	46.85	35.2	10.44	31.93	100	229	P	H
		5868	76.45	-30.81	107.26	62.71	35.23	10.46	31.95	100	229	P	H
		5904	56.47	-27.33	83.8	42.65	35.3	10.49	31.97	100	229	P	H
		5950.4	56.07	-12.23	68.3	42.15	35.4	10.53	32.01	100	229	P	H
	*	5836	109.01	-	-	95.38	35.13	10.43	31.93	301	92	P	V
	*	5836	103.24	-	-	89.61	35.13	10.43	31.93	301	92	A	V
		5851.2	55.73	-63.83	119.56	42.02	35.2	10.44	31.93	301	92	P	V
		5867.2	59.43	-48.05	107.48	45.69	35.23	10.46	31.95	301	92	P	V
		5887.2	56.24	-40	96.24	42.47	35.27	10.47	31.97	301	92	P	V
		5940	56.29	-12.01	68.3	42.37	35.4	10.53	32.01	301	92	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE40_Full RU (Band Edge @ 3m)

WIFI Ant. 2+9	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)
		5643.6	53.97	-14.33	68.3	41.22	34.57	10.28	32.1	102	227	P	H
		5698.4	64.52	-39.6	104.12	51.56	34.7	10.32	32.06	102	227	P	H
		5718.8	78.62	-31.94	110.56	65.48	34.83	10.35	32.04	102	227	P	H
		5723.6	80.26	-38.85	119.11	67.12	34.83	10.35	32.04	102	227	P	H
	*	5752	108.85	-	-	95.56	34.93	10.37	32.01	102	227	P	H
	*	5752	100.66	-	-	87.37	34.93	10.37	32.01	102	227	A	H
		5851.2	55.01	-64.55	119.56	41.3	35.2	10.44	31.93	102	227	P	H
		5858	56.14	-53.92	110.06	42.4	35.23	10.46	31.95	102	227	P	H
802.11ax		5892.8	55.54	-36.55	92.09	41.72	35.3	10.49	31.97	102	227	P	H
HE40 Full		5979.2	56.25	-12.05	68.3	42.32	35.4	10.56	32.03	102	227	P	H
CH 151		5638	53.53	-14.77	68.3	40.78	34.57	10.28	32.1	285	91	P	V
5755MHz		5698.8	56.41	-48.01	104.42	43.45	34.7	10.32	32.06	285	91	P	V
		5718.8	66.97	-43.59	110.56	53.83	34.83	10.35	32.04	285	91	P	V
		5723.6	69.97	-49.14	119.11	56.83	34.83	10.35	32.04	285	91	P	V
	*	5752	101	-	-	87.71	34.93	10.37	32.01	285	91	P	V
	*	5752	92.46	-	-	79.17	34.93	10.37	32.01	285	91	A	V
		5851.2	53.04	-66.52	119.56	39.33	35.2	10.44	31.93	285	91	P	V
		5863.6	55.35	-53.14	108.49	41.61	35.23	10.46	31.95	285	91	P	V
		5906.8	54.99	-26.74	81.73	41.12	35.33	10.51	31.97	285	91	P	V
		5960.8	55.11	-13.19	68.3	41.19	35.4	10.55	32.03	285	91	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE40_Full RU (Harmonic @ 3m)

WIFI Ant. 2+9	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		11510	45.47	-28.53	74	51.31	39.8	16.22	61.86	300	0	P	H
		11510	46.04	-27.96	74	51.88	39.8	16.22	61.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE40_Partial RU 242 Tone (Band Edge @ 3m)

WIFI Ant. 2+9	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 Partial 242/62 CH 159 5795MHz		5619.2	54.49	-13.81	68.3	41.78	34.53	10.26	32.08	100	225	P	H
		5694	54.78	-46.1	100.88	41.82	34.7	10.32	32.06	100	225	P	H
		5708	56.23	-51.31	107.54	43.17	34.77	10.33	32.04	100	225	P	H
		5722	56.44	-59.02	115.46	43.3	34.83	10.35	32.04	100	225	P	H
		5851.2	63.73	-55.83	119.56	50.02	35.2	10.44	31.93	100	225	P	H
		5856.4	63.12	-47.39	110.51	49.36	35.23	10.46	31.93	100	225	P	H
		5912.4	57.36	-20.23	77.59	43.51	35.33	10.51	31.99	100	225	P	H
		5926.8	57.24	-11.06	68.3	43.34	35.37	10.52	31.99	100	225	P	H
	*	5812	112.17	-	-	98.64	35.07	10.41	31.95	100	225	P	H
	*	5812	105.06	-	-	91.53	35.07	10.41	31.95	100	225	A	H
		5634	53.97	-14.33	68.3	41.22	34.57	10.28	32.1	304	88	P	V
		5691.6	54.33	-44.78	99.11	41.37	34.7	10.32	32.06	304	88	P	V
		5712	54.02	-54.64	108.66	40.96	34.77	10.33	32.04	304	88	P	V
		5721.6	55.12	-59.43	114.55	41.98	34.83	10.35	32.04	304	88	P	V
		5850	56.04	-66.26	122.3	42.33	35.2	10.44	31.93	304	88	P	V
		5856.8	57.48	-52.92	110.4	43.72	35.23	10.46	31.93	304	88	P	V
		5876	55.9	-48.66	104.56	42.11	35.27	10.47	31.95	304	88	P	V
		5929.6	56.32	-11.98	68.3	42.42	35.37	10.52	31.99	304	88	P	V
	*	5806	104.35	-	-	90.84	35.07	10.41	31.97	304	88	P	V
	*	5806	95.64	-	-	82.13	35.07	10.41	31.97	304	88	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE80_Full RU (Band Edge @ 3m)

WIFI Ant. 2+9	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)
		5628.8	64.6	-3.7	68.3	51.91	34.53	10.26	32.1	100	229	P	H
		5697.2	75.89	-27.35	103.24	62.93	34.7	10.32	32.06	100	229	P	H
		5718	82	-28.34	110.34	68.86	34.83	10.35	32.04	100	229	P	H
		5722.8	79.85	-37.43	117.28	66.71	34.83	10.35	32.04	100	229	P	H
	*	5776	105.81	-	-	92.44	34.97	10.39	31.99	100	229	P	H
	*	5776	97.08	-	-	83.71	34.97	10.39	31.99	100	229	A	H
		5853.2	74.69	-40.31	115	60.98	35.2	10.44	31.93	100	229	P	H
		5857.6	77.87	-32.3	110.17	64.11	35.23	10.46	31.93	100	229	P	H
802.11ax		5877.6	68.15	-35.22	103.37	54.36	35.27	10.47	31.95	100	229	P	H
HE80 Full		5934	61.24	-7.06	68.3	47.34	35.37	10.52	31.99	100	229	P	H
CH 155		5649.2	59.54	-8.76	68.3	46.79	34.57	10.28	32.1	302	99	P	V
5775MHz		5699.6	73.58	-31.43	105.01	60.62	34.7	10.32	32.06	302	99	P	V
		5720	76.94	-33.96	110.9	63.8	34.83	10.35	32.04	302	99	P	V
		5722.8	75.73	-41.55	117.28	62.59	34.83	10.35	32.04	302	99	P	V
	*	5782	101.47	-	-	88.08	34.97	10.39	31.97	302	99	P	V
	*	5782	91.51	-	-	78.12	34.97	10.39	31.97	302	99	A	V
		5852.8	72.87	-43.05	115.92	59.16	35.2	10.44	31.93	302	99	P	V
		5870.4	74.5	-32.09	106.59	60.76	35.23	10.46	31.95	302	99	P	V
		5880	68.81	-32.78	101.59	55.02	35.27	10.47	31.95	302	99	P	V
		5932.4	56.63	-11.67	68.3	42.73	35.37	10.52	31.99	302	99	P	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

WIFI 802.11ax HE80_Full RU (Harmonic @ 3m)

WIFI Ant. 2+9	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		11554	45.03	-28.97	74	50.84	39.8	16.25	61.86	300	0	P	H
		11554	44.27	-29.73	74	50.08	39.8	16.25	61.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11ax HE80_Partial RU 484 Tone (Band Edge @ 3m)

WIFI Ant. 2+9	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 Partial 484/65 CH 155 5775MHz		5635.6	64.43	-3.87	68.3	51.68	34.57	10.28	32.1	101	226	P	H
		5695.2	70.7	-31.06	101.76	57.74	34.7	10.32	32.06	101	226	P	H
		5716.8	81.89	-28.12	110.01	68.83	34.77	10.33	32.04	101	226	P	H
		5721.2	82.59	-31.05	113.64	69.45	34.83	10.35	32.04	101	226	P	H
	*	5746	111.69	-	-	98.44	34.9	10.36	32.01	101	226	P	H
	*	5746	103.34	-	-	90.09	34.9	10.36	32.01	101	226	A	H
		5850.4	72.32	-49.07	121.39	58.61	35.2	10.44	31.93	101	226	P	H
		5855.6	68.8	-41.93	110.73	55.04	35.23	10.46	31.93	101	226	P	H
		5875.2	63.88	-41.27	105.15	50.09	35.27	10.47	31.95	101	226	P	H
		5962.8	55.01	-13.29	68.3	41.09	35.4	10.55	32.03	101	226	P	H
		5623.2	58.11	-10.19	68.3	45.4	34.53	10.26	32.08	317	72	P	V
		5665.2	62.63	-16.95	79.58	49.82	34.6	10.29	32.08	317	72	P	V
		5718	74.84	-35.5	110.34	61.7	34.83	10.35	32.04	317	72	P	V
		5721.6	74.91	-39.64	114.55	61.77	34.83	10.35	32.04	317	72	P	V
	*	5740	101.95	-	-	88.7	34.9	10.36	32.01	317	72	P	V
	*	5740	93.67	-	-	80.42	34.9	10.36	32.01	317	72	A	V
		5850	64.77	-57.53	122.3	51.06	35.2	10.44	31.93	317	72	P	V
		5870.4	60.97	-45.62	106.59	47.23	35.23	10.46	31.95	317	72	P	V
		5877.6	58.66	-44.71	103.37	44.87	35.27	10.47	31.95	317	72	P	V
		5964.4	55.08	-13.22	68.3	41.16	35.4	10.55	32.03	317	72	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 HE80_Full RU (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.	
2+9		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE80_Full LF		30	21.85	-18.15	40	28.97	24.8	0.88	32.8	-	-	P	H
		126.03	14.57	-28.93	43.5	29.29	16.42	1.78	32.92	-	-	P	H
		152.22	14.94	-28.56	43.5	28.97	16.91	1.96	32.9	-	-	P	H
		260.86	16.95	-29.05	46	28.71	18.65	2.6	33.01	-	-	P	H
		477.17	22.54	-23.46	46	29	23.34	3.49	33.29	-	-	P	H
		623.64	25.57	-20.43	46	28.93	25.94	3.99	33.29	-	-	P	H
		30.97	20.46	-19.54	40	28.06	24.32	0.89	32.81	-	-	P	V
		126.03	14.57	-28.93	43.5	29.29	16.42	1.78	32.92	-	-	P	V
		250.19	15.64	-30.36	46	27.6	18.5	2.55	33.01	-	-	P	V
		378.23	18.73	-27.27	46	27.59	21	3.11	32.97	-	-	P	V
		470.38	21.71	-24.29	46	28.31	23.2	3.47	33.27	-	-	P	V
		656.62	26.1	-19.9	46	29.09	26.23	4.09	33.31	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against 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.	
2+9		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		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)

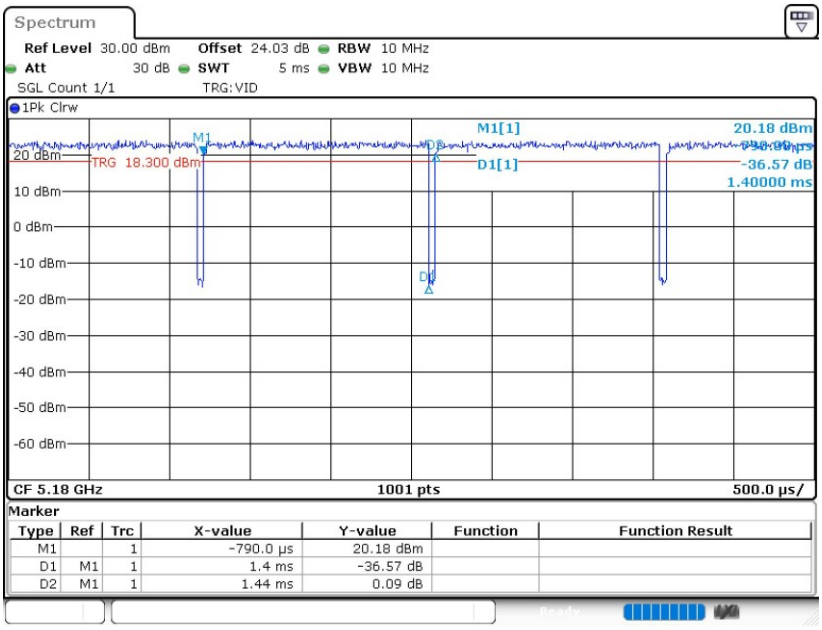
= -10.46(dB)

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

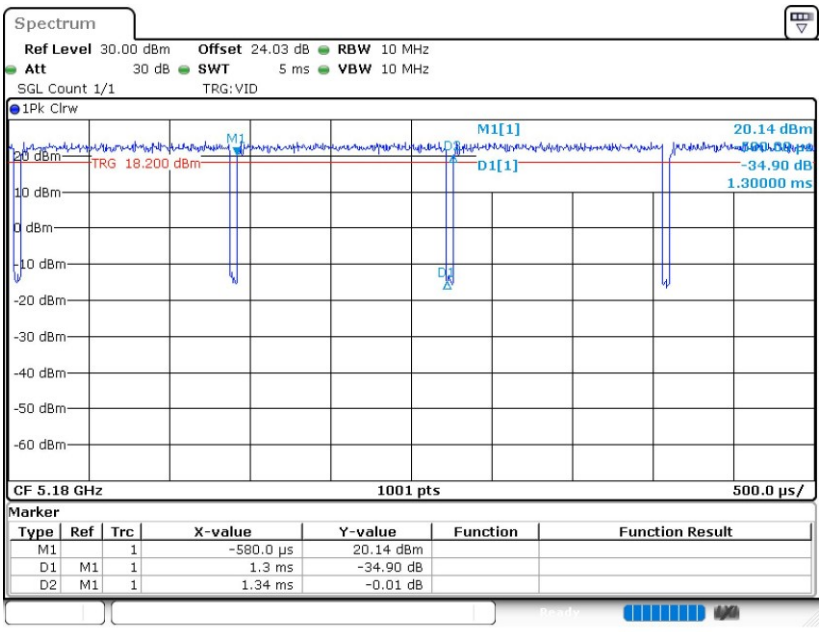
Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11a	97.22	1.400	0.714	0.75KHz
1+2	802.11an HT20	97.01	1.300	0.769	0.82KHz
1+2	802.11an HT40	94.12	0.640	1.563	1.6KHz
1+2	802.11ac VHT80	89.19	0.330	3.030	3.3KHz
1+2	802.11ax HE20	96.19	1.010	0.990	1KHz
1+2	802.11ax HE40	91.38	0.530	1.887	2KHz
1+2	802.11ax HE80	85.29	0.290	3.448	3.6kHz

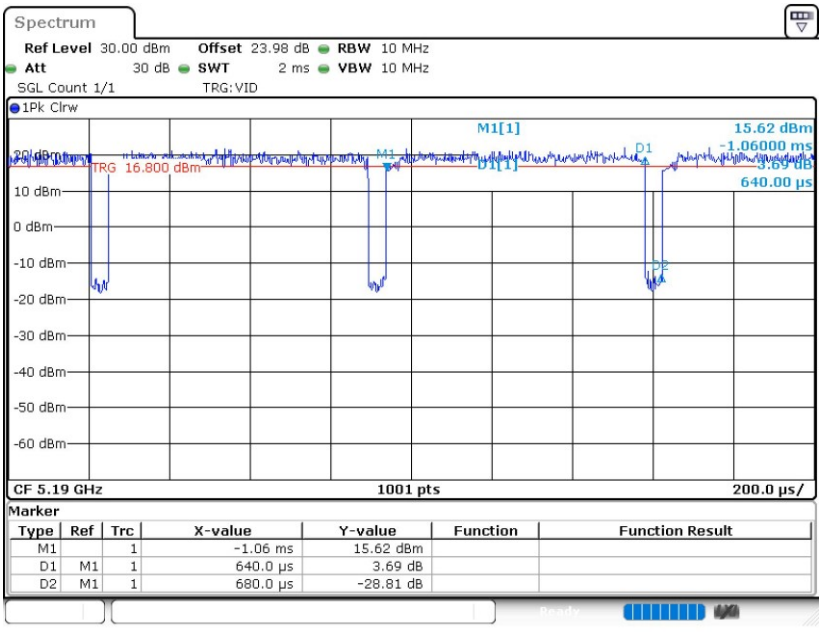
802.11a



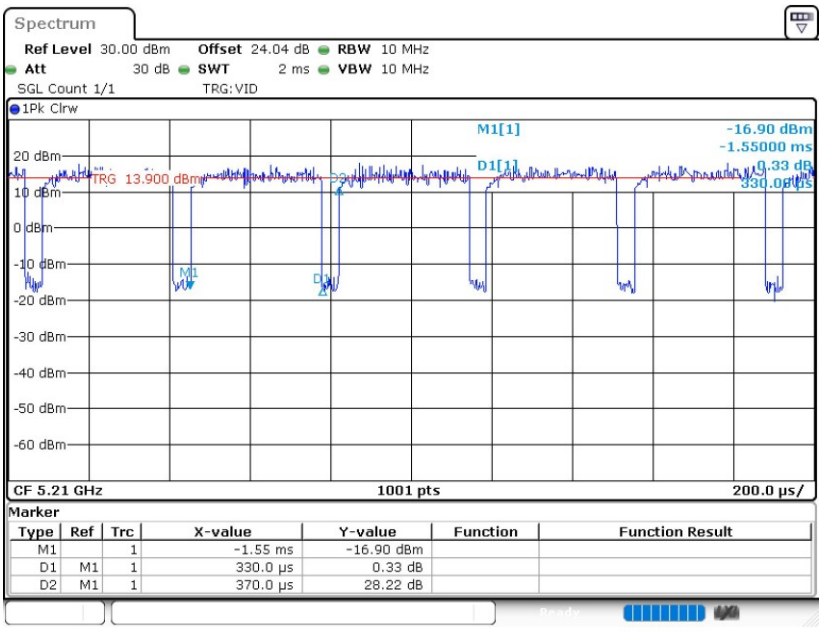
802.11an HT20



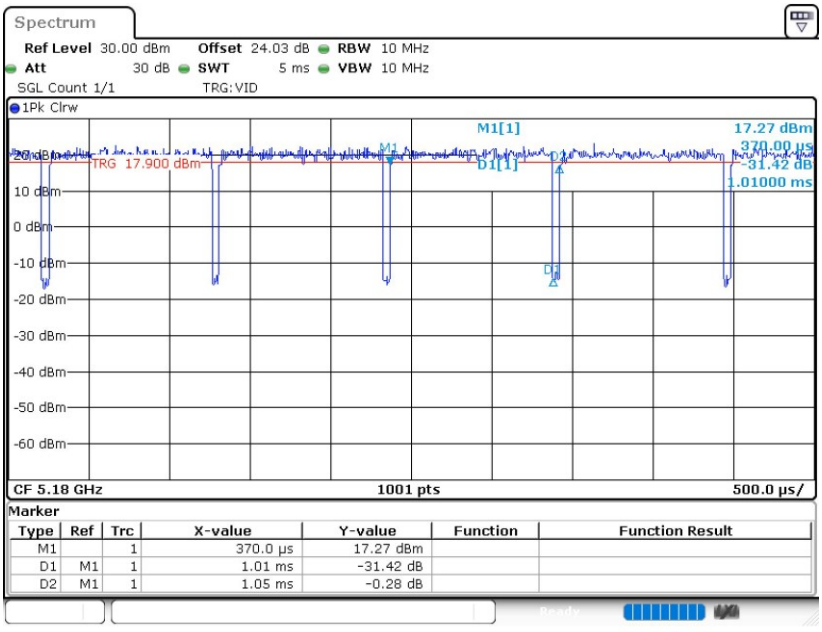
802.11an HT40



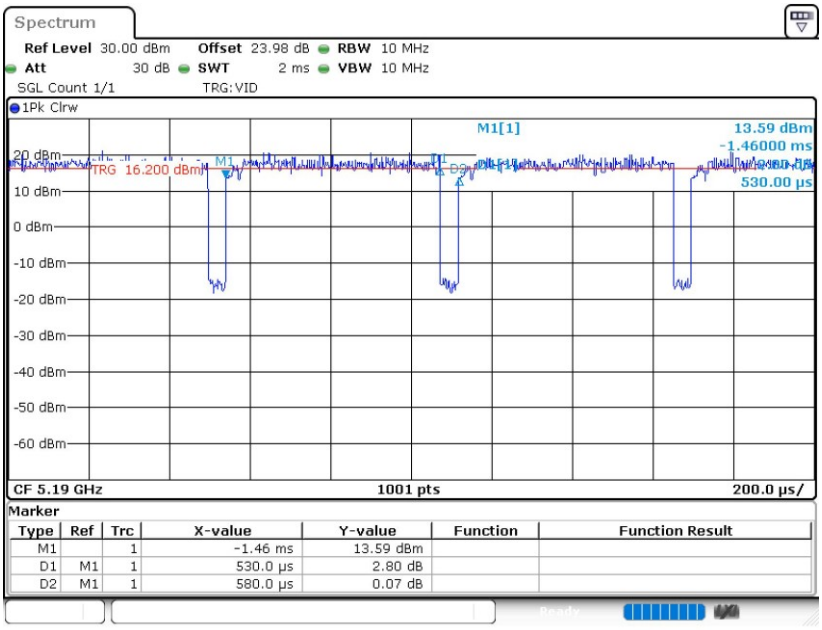
802.11ac VHT80



802.11ax HE20



802.11ax HE40



802.11ax HE80