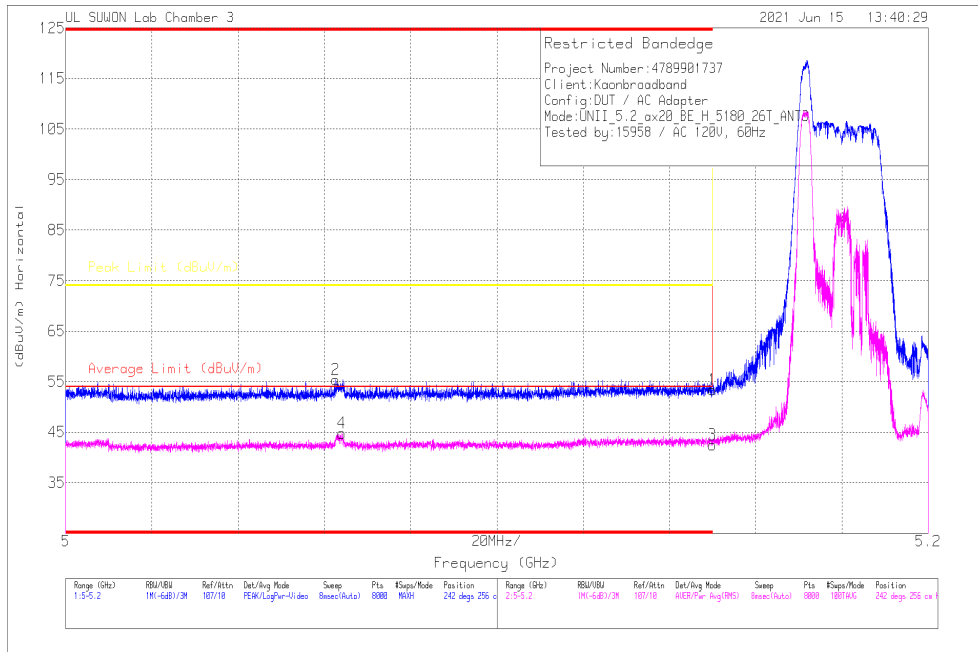


11.1. RADIATED TEST

11.1.1. BAND-EDGE_5.2GHz BAND

WORST CASE: 802.11ax HE20 / ANT3 / 5180 MHz/ 26Tone / 0 RU)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.14999	39.34	Pk		-20.8	0	53.34	-	-	74	-20.66	242	256	H
2	* 5.06258	41.63	Pk		-20.9	0	55.43	-	-	74	-18.57	242	256	H
3	* 5.14999	23.5	RMS		-20.8	0	42.5	54	-11.5	-	-	242	256	H
4	* 5.06408	30.87	RMS		-20.8	0	44.77	54	-9.23	-	-	242	256	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE TEST DATA

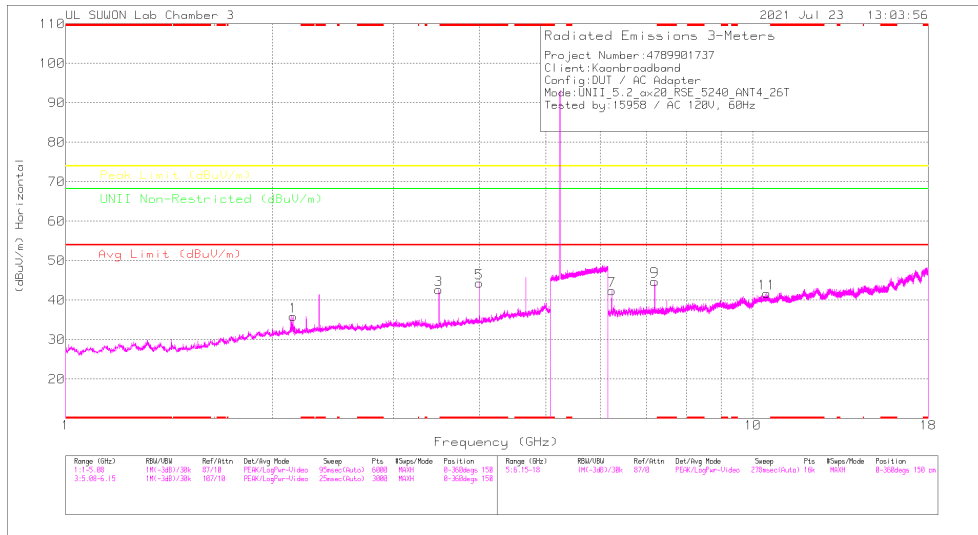
Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11ax(HE20)	5180	26 Tone / 0 RU	MIMO	* 5.14999	38.07	Pk	34.80	-20.80	0	52.07	-	-	74.00	-21.93	354	192	H		
				* 5.10409	41.22	Pk	34.80	-20.80	0	55.22	-	-	-	74.00	-18.78	354	192	H	
				* 5.14999	28.63	RMS	34.80	-20.80	0	42.63	54.00	-11.37	-	-	-	354	192	H	
				* 5.06363	30.34	RMS	34.70	-20.80	0	44.24	54.00	-9.76	-	-	-	354	192	H	
				* 5.14999	39.95	Pk	34.80	-20.80	0	53.95	-	-	-	-	74.00	-20.05	213	202	V
				* 5.14309	42.21	Pk	34.80	-20.80	0	56.21	-	-	-	-	74.00	-17.79	213	202	V
				* 5.14999	28.81	RMS	34.80	-20.80	0	42.81	54.00	-11.19	-	-	-	213	202	V	
				* 5.13839	30.38	RMS	34.80	-20.80	0	44.38	54.00	-9.62	-	-	-	213	202	V	
				802.11ax(HE20)	5180	26 Tone / 0 RU	ANT1	* 5.14999	38.59	Pk	34.80	-20.80	0	52.59	-	-	74.00	-21.41	0
* 5.01265	41.29	Pk	34.70					-20.80	0	55.19	-	-	-	74.00	-18.81	0	170	H	
* 5.14999	28.13	RMS	34.80					-20.80	0	42.13	54.00	-11.87	-	-	-	0	170	H	
* 5.06303	29.85	RMS	34.70					-20.80	0	43.75	54.00	-10.25	-	-	-	0	170	H	
* 5.14999	37.76	Pk	34.80					-20.80	0	51.76	-	-	-	-	74.00	-22.24	214	231	V
* 5.12371	40.97	Pk	34.80					-20.70	0	55.07	-	-	-	-	74.00	-18.93	214	231	V
* 5.14999	27.96	RMS	34.80					-20.80	0	41.96	54.00	-12.14	-	-	-	214	231	V	
* 5.00835	29.30	RMS	34.70					-20.80	0	43.10	54.00	-10.90	-	-	-	214	231	V	
802.11ax(HE20)	5180	26 Tone / 0 RU	ANT2					* 5.14999	37.33	Pk	34.80	-20.80	0	51.33	-	-	74.00	-22.67	304
				* 5.00483	40.55	Pk	34.70	-20.80	0	54.45	-	-	-	74.00	-19.55	304	112	H	
				* 5.14999	27.24	RMS	34.80	-20.80	0	41.24	54.00	-12.76	-	-	-	304	112	H	
				* 5.00225	29.32	RMS	34.70	-20.80	0	43.22	54.00	-10.78	-	-	-	304	112	H	
				* 5.14999	39.50	Pk	34.80	-20.80	0	53.50	-	-	-	-	74.00	-20.50	47	189	V
				* 5.14399	42.26	Pk	34.80	-20.80	0	56.26	-	-	-	-	74.00	-17.74	47	189	V
				* 5.14999	29.33	RMS	34.80	-20.80	0	43.33	54.00	-10.67	-	-	-	47	189	V	
				* 5.12997	30.67	RMS	34.80	-20.80	0	44.67	54.00	-9.33	-	-	-	47	189	V	
				802.11ax(HE20)	5180	26 Tone / 0 RU	ANT3	* 5.14999	39.34	Pk	34.80	-20.80	0	53.34	-	-	74.00	-20.66	242
* 5.06258	41.63	Pk	34.70					-20.90	0	55.43	-	-	-	74.00	-18.57	242	256	H	
* 5.14999	28.50	RMS	34.80					-20.80	0	42.50	54.00	-11.50	-	-	-	242	256	H	
* 5.06408	30.87	RMS	34.70					-20.80	0	44.77	54.00	-9.23	-	-	-	242	256	H	
* 5.14999	37.43	Pk	34.80					-20.80	0	51.43	-	-	-	-	74.00	-22.57	221	153	V
* 5.14444	41.39	Pk	34.80					-20.80	0	55.39	-	-	-	-	74.00	-18.61	221	153	V
* 5.14999	28.48	RMS	34.80					-20.80	0	42.48	54.00	-11.52	-	-	-	221	153	V	
* 5.06336	30.29	RMS	34.70					-20.80	0	44.19	54.00	-9.81	-	-	-	221	153	V	
802.11a	5180	26 Tone / 0 RU	ANT4					* 5.14999	37.04	Pk	34.80	-20.80	0	51.04	-	-	74.00	-22.96	132
				* 5.00028	40.64	Pk	34.70	-20.80	0	54.54	-	-	-	74.00	-19.46	132	136	H	
				* 5.14999	27.80	RMS	34.80	-20.80	0	41.80	54.00	-12.20	-	-	-	132	136	H	
				* 5.00673	29.12	RMS	34.70	-20.90	0	42.92	54.00	-11.08	-	-	-	132	136	H	
				* 5.14999	39.09	Pk	34.80	-20.80	0	53.09	-	-	-	-	74.00	-20.91	261	268	V
				* 5.13817	41.22	Pk	34.80	-20.70	0	55.32	-	-	-	-	74.00	-18.68	261	268	V
				* 5.14999	28.94	RMS	34.80	-20.80	0	43.94	54.00	-10.06	-	-	-	261	268	V	
				* 5.14877	30.40	RMS	34.80	-20.80	0	44.40	54.00	-9.60	-	-	-	261	268	V	

Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

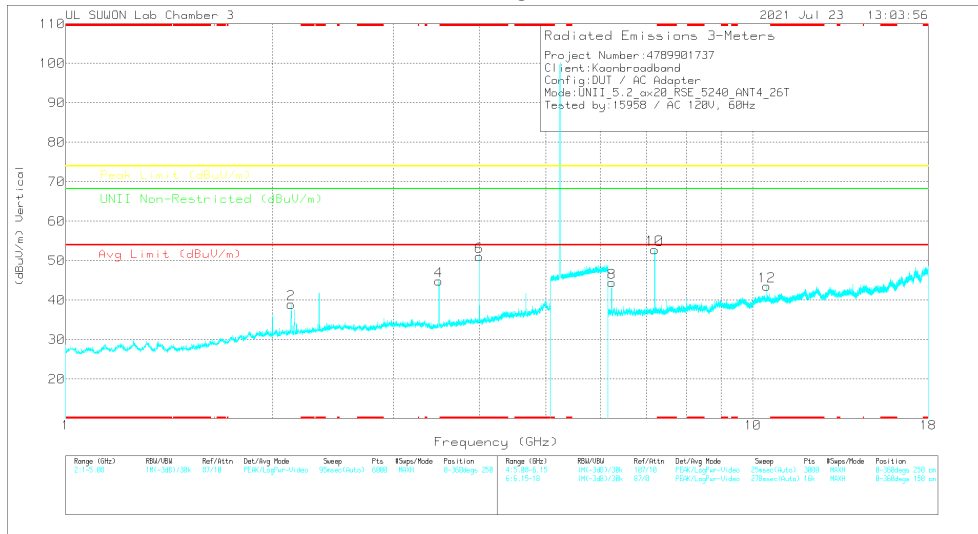
11.1.2. HARMONICS AND SPURIOUS EMISSIONS_5.2GHZ BAND

WORST CASE: 802.11ax HE20 / 26T / ANT4 / 5240 MHz)

HORIZONTAL



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5240 MHz DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	5GHz_LP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.14255	61.24	PK-U	32	-34.7	58.54	-	-	-	-	68.2	-9.66	26	150	H
3.49341	47.7	PK-U	33.3	-32.9	48.1	-	-	-	-	68.2	-20.1	154	251	H
* 4.00014	47.09	PK-U	33.9	-31.9	49.09	-	-	74	-24.91	-	-	14	382	H
* 4.00003	40.86	ADR	33.9	-31.9	42.86	54	-11.14	-	-	-	-	14	382	H
6.23334	40.11	PK-U	36.1	-26.9	49.31	-	-	-	-	68.2	-18.89	358	228	H
7.20007	39.72	PK-U	36.1	-25.2	50.62	-	-	-	-	68.2	-17.58	13	281	H
10.47998	37.88	PK-U	38.2	-21	55.08	-	-	-	-	68.2	-13.12	344	101	H
2.14301	65.34	PK-U	32	-34.7	62.64	-	-	-	-	68.2	-6.56	318	170	V
3.49328	49.06	PK-U	33.3	-32.9	49.46	-	-	-	-	68.2	-18.74	18	162	V
* 4	53.09	PK-U	33.9	-31.9	55.09	-	-	74	-18.91	-	-	18	103	V
* 4.00003	50.28	ADR	33.9	-31.9	52.28	54	-1.72	-	-	-	-	18	103	V
6.23379	41.63	PK-U	36.1	-26.9	50.83	-	-	-	-	68.2	-17.37	318	136	V
7.20005	44.74	PK-U	36.1	-25.2	55.64	-	-	-	-	68.2	-12.56	9	132	V
10.48112	47.38	PK-U	38.2	-21	64.58	-	-	-	-	68.2	-3.62	184	261	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

Note: In the above emissions, frequencies other than harmonic are local oscillator generated during product operation regardless of RF transmission and were measured only in worst mode.

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5180	MIMO	10.362	34.67	PK-U	38.10	-20.70	0	52.07	-	-	-	-	68.20	-16.13	61	102	H
			10.360	35.57	PK-U	38.10	-20.80	0	52.87	-	-	-	-	68.20	-15.33	48	217	V
	5200	MIMO	10.402	38.11	PK-U	38.10	-20.90	0	55.31	-	-	-	-	68.20	-12.89	215	208	H
			10.400	36.99	PK-U	38.10	-20.90	0	54.19	-	-	-	-	68.20	-14.01	50	212	V
	5240	MIMO	10.476	33.52	PK-U	38.20	-21.00	0	50.72	-	-	-	-	68.20	-17.48	304	226	H
			10.480	35.34	PK-U	38.20	-21.00	0	52.54	-	-	-	-	68.20	-15.66	49	218	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5180	ANT1	10.360	34.05	PK-U	38.10	-20.80	0	51.35	-	-	-	-	68.20	-16.85	313	246	H
			10.360	35.47	PK-U	38.10	-20.80	0	52.77	-	-	-	-	68.20	-15.43	53	205	V
	5200	ANT1	10.400	35.93	PK-U	38.10	-20.90	0	53.13	-	-	-	-	68.20	-15.07	310	241	H
			10.400	35.42	PK-U	38.10	-20.90	0	52.62	-	-	-	-	68.20	-15.58	53	218	V
	5240	ANT1	10.480	34.09	PK-U	38.20	-21.00	0	51.29	-	-	-	-	68.20	-16.91	344	101	H
			10.480	35.39	PK-U	38.20	-21.00	0	52.59	-	-	-	-	68.20	-15.61	56	209	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5180	ANT2	10.360	35.13	PK-U	38.10	-20.80	0	52.43	-	-	-	-	68.20	-15.77	347	106	H
			10.360	38.42	PK-U	38.10	-20.80	0	55.72	-	-	-	-	68.20	-12.48	154	265	V
	5200	ANT2	10.400	36.77	PK-U	38.10	-20.90	0	53.97	-	-	-	-	68.20	-14.23	62	100	H
			10.398	38.44	PK-U	38.10	-21.00	0	55.54	-	-	-	-	68.20	-12.66	156	259	V
	5240	ANT2	10.481	33.78	PK-U	38.20	-21.00	0	50.98	-	-	-	-	68.20	-17.22	284	215	H
			10.480	32.41	PK-U	38.20	-21.00	0	49.61	-	-	-	-	68.20	-18.59	55	209	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5180	ANT3	10.360	40.79	PK-U	38.10	-20.80	0	58.09	-	-	-	-	68.20	-10.11	65	101	H
			10.360	45.16	PK-U	38.10	-20.80	0	62.46	-	-	-	-	68.20	-5.74	170	100	V
	5200	ANT3	10.400	39.39	PK-U	38.10	-20.90	0	56.59	-	-	-	-	68.20	-11.61	61	100	H
			10.400	44.14	PK-U	38.10	-20.90	0	61.34	-	-	-	-	68.20	-6.86	169	100	V
	5240	ANT3	10.480	38.74	PK-U	38.20	-21.00	0	55.94	-	-	-	-	68.20	-12.26	68	101	H
			10.480	44.61	PK-U	38.20	-21.00	0	61.81	-	-	-	-	68.20	-6.39	206	105	V

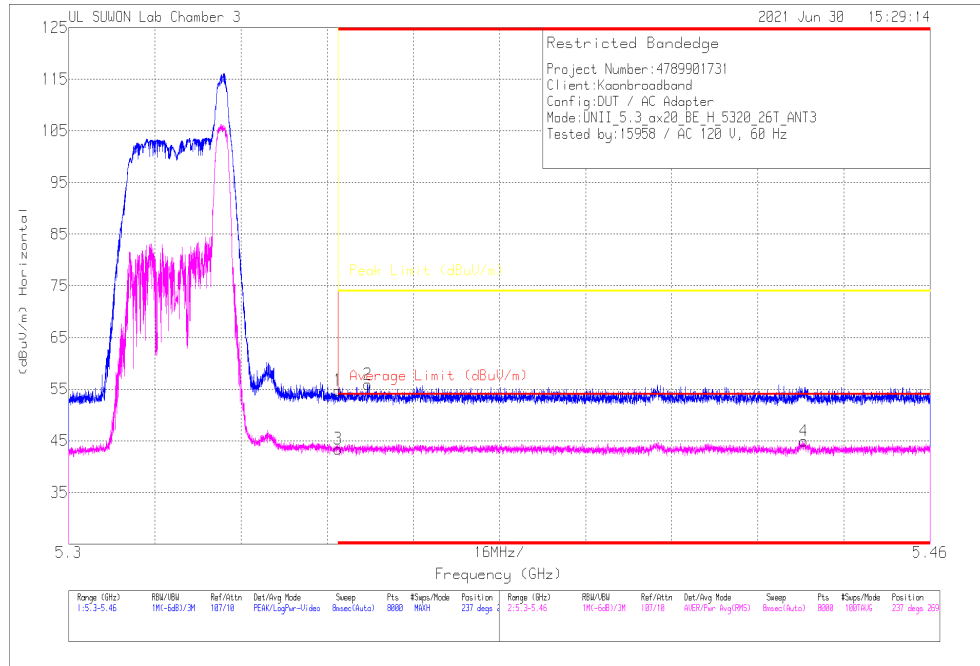
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5180	ANT4	10.360	42.59	PK-U	38.10	-20.80	0	59.89	-	-	-	-	68.20	-8.31	237	269	H
			10.360	44.05	PK-U	38.10	-20.80	0	61.35	-	-	-	-	68.20	-6.85	179	394	V
	5200	ANT4	10.400	37.87	PK-U	38.10	-20.90	0	55.07	-	-	-	-	68.20	-13.13	344	102	H
			10.400	44.10	PK-U	38.10	-20.90	0	61.30	-	-	-	-	68.20	-6.90	168	164	V
	5240	ANT4	10.480	37.88	PK-U	38.20	-21.00	0	55.08	-	-	-	-	68.20	-13.12	344	101	H
			10.481	47.38	PK-U	38.20	-21.00	0	64.58	-	-	-	-	68.20	-3.62	184	261	V

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.1.3. BAND-EDGE_5.3GHz BAND

WORST CASE: 802.11axHE20 / ANT3 / 5320 MHz/ 26Tone / 8 RU)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	40.14	Pk	35.1	-20.5	0	54.74	-	-	74	-19.26	237	269	H
2	* 5.35551	41.31	Pk	35.1	-20.5	0	55.91	-	-	74	-18.09	237	269	H
3	* 5.35001	28.82	RMS	35.1	-20.5	0	43.42	54	-10.58	-	-	237	269	H
4	* 5.43654	29.94	RMS	35.3	-20.3	0	44.94	54	-9.06	-	-	237	269	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE TEST DATA

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11ax(HE20)	5320	26 Tone / 8 RU	MIMO	* 5.35001	37.67	Pk	35.10	-20.50	0	52.27	-	-	74.00	-21.73	217	208	H		
				* 5.43194	40.35	Pk	35.30	-20.30	0	55.35	-	-	-	74.00	-18.65	217	208	H	
				* 5.35001	27.23	RMS	35.10	-20.50	0	41.83	54.00	-12.17	-	-	-	217	208	H	
				* 5.4103	28.61	RMS	35.20	-20.30	0	43.51	54.00	-10.49	-	-	-	217	208	H	
				* 5.35001	38.40	Pk	35.10	-20.50	0	53.00	-	-	-	-	74.00	-21.00	118	207	V
				* 5.37083	40.99	Pk	35.10	-20.40	0	55.69	-	-	-	-	74.00	-18.31	118	207	V
				* 5.35001	27.04	RMS	35.10	-20.50	0	41.64	54.00	-12.36	-	-	-	-	118	207	V
				* 5.36823	28.58	RMS	35.10	-20.40	0	43.28	54.00	-10.72	-	-	-	-	118	207	V

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5320	26 Tone / 8 RU	ANT1	* 5.35001	38.37	Pk	35.10	-20.50	0	52.97	-	-	74.00	-21.03	174	275	H	
				* 5.4197	41.32	Pk	35.20	-20.30	0	56.22	-	-	-	74.00	-17.78	174	275	H
				* 5.35001	28.54	RMS	35.10	-20.50	0	43.14	54.00	-10.86	-	-	-	174	275	H
				* 5.43602	29.12	RMS	35.30	-20.30	0	44.12	54.00	-9.88	-	-	-	174	275	H
				* 5.35001	38.09	Pk	35.10	-20.50	0	52.69	-	-	-	74.00	-21.31	207	200	V
				* 5.36563	40.63	Pk	35.10	-20.40	0	55.33	-	-	-	74.00	-18.67	207	200	V
				* 5.35001	27.98	RMS	35.10	-20.50	0	42.58	54.00	-11.42	-	-	-	207	200	V
				* 5.41166	28.53	RMS	35.20	-20.30	0	43.43	54.00	-10.57	-	-	-	-	207	200

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5320	26 Tone / 8 RU	ANT2	* 5.35001	37.30	Pk	35.10	-20.50	0	51.90	-	-	74.00	-22.10	266	101	H	
				* 5.4293	39.87	Pk	35.30	-20.20	0	54.97	-	-	-	74.00	-19.03	266	101	H
				* 5.35001	27.92	RMS	35.10	-20.50	0	42.52	54.00	-11.48	-	-	-	266	101	H
				* 5.42662	28.28	RMS	35.30	-20.30	0	43.28	54.00	-10.72	-	-	-	266	101	H
				* 5.35001	38.52	Pk	35.10	-20.50	0	53.16	-	-	-	74.00	-20.84	49	207	V
				* 5.35035	41.45	Pk	35.10	-20.50	0	56.05	-	-	-	74.00	-17.95	49	207	V
				* 5.35001	28.32	RMS	35.10	-20.50	0	42.92	54.00	-11.08	-	-	-	49	207	V
				* 5.36709	29.64	RMS	35.10	-20.40	0	44.34	54.00	-9.66	-	-	-	-	49	207

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5320	26 Tone / 8 RU	ANT3	* 5.35001	40.14	Pk	35.10	-20.50	0	54.74	-	-	74.00	-19.26	237	269	H	
				* 5.35551	41.31	Pk	35.10	-20.50	0	55.91	-	-	-	74.00	-18.09	237	269	H
				* 5.35001	28.82	RMS	35.10	-20.50	0	43.42	54.00	-10.58	-	-	-	237	269	H
				* 5.43654	29.94	RMS	35.30	-20.30	0	44.94	54.00	-9.06	-	-	-	237	269	H
				* 5.35001	38.52	Pk	35.10	-20.50	0	53.12	-	-	-	74.00	-20.88	217	145	V
				* 5.40846	40.92	Pk	35.20	-20.30	0	55.82	-	-	-	74.00	-18.18	217	145	V
				* 5.35001	27.59	RMS	35.10	-20.50	0	42.19	54.00	-11.81	-	-	-	217	145	V
				* 5.40962	29.01	RMS	35.20	-20.30	0	43.91	54.00	-10.09	-	-	-	-	217	145

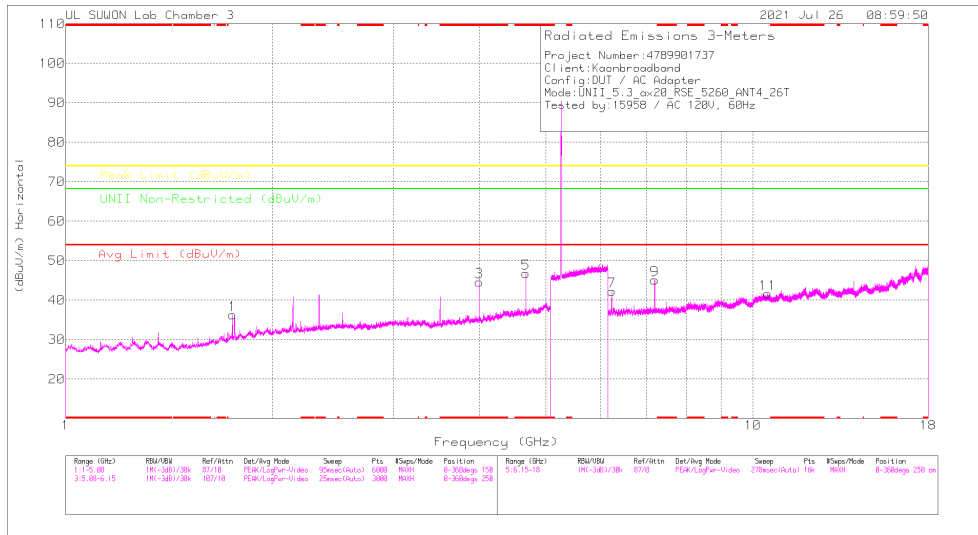
Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5320	26 Tone / 8 RU	ANT4	* 5.35001	37.45	Pk	35.10	-20.50	0	52.05	-	-	74.00	-21.95	85	107	H	
				* 5.4035	40.30	Pk	35.20	-20.30	0	55.20	-	-	-	74.00	-18.80	85	107	H
				* 5.35001	27.14	RMS	35.10	-20.50	0	41.74	54.00	-12.26	-	-	-	85	107	H
				* 5.39021	28.50	RMS	35.20	-20.40	0	43.30	54.00	-10.70	-	-	-	85	107	H
				* 5.35001	39.15	Pk	35.10	-20.50	0	53.75	-	-	-	74.00	-20.25	203	100	V
				* 5.37467	41.16	Pk	35.10	-20.50	0	55.76	-	-	-	74.00	-18.24	203	100	V
				* 5.35001	28.64	RMS	35.10	-20.50	0	43.24	54.00	-10.76	-	-	-	203	100	V
				* 5.35257	29.57	RMS	35.10	-20.50	0	44.17	54.00	-9.83	-	-	-	-	203	100

Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

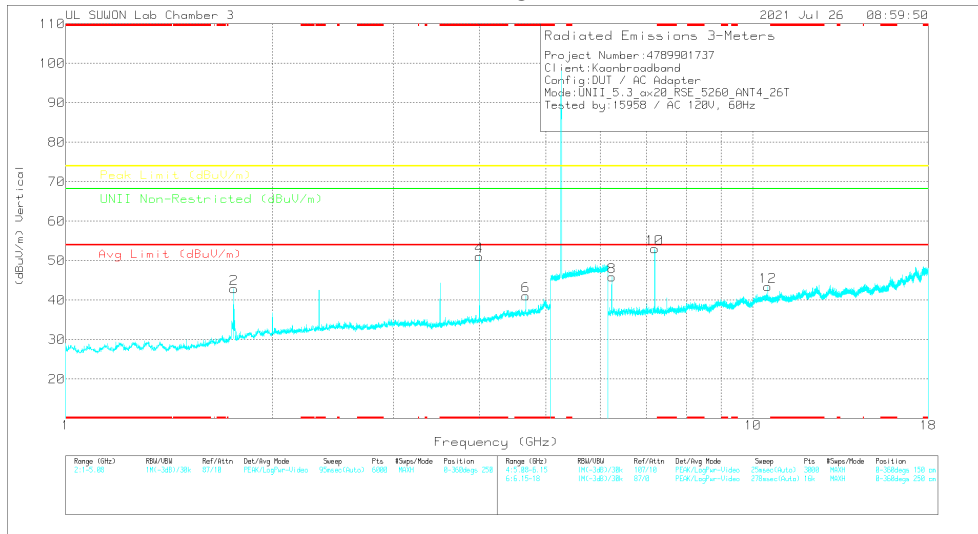
11.1.4. HARMONICS AND SPURIOUS EMISSIONS_5.3GHz BAND

WORST CASE: 802.11ax HE20 / 26T / ANT4 / 5260 MHz)

HORIZONTAL



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5260 MHz DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	5GHz_LP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.75323	56.27	PK-U	30.4	-35.2	51.47	-	-	-	-	68.2	-16.73	290	146	H
* 3.99999	47.36	PK-U	33.9	-31.9	49.36	-	-	74	-24.64	-	-	33	119	H
* 4.00012	42.23	ADR	33.9	-31.9	44.23	54	-9.77	-	-	-	-	33	119	H
* 4.67577	49.95	PK-U	34.5	-30.7	53.75	-	-	74	-20.25	-	-	327	132	H
* 4.67509	34.33	ADR	34.5	-30.6	38.23	54	-15.77	-	-	-	-	327	132	H
6.23406	39.82	PK-U	36.1	-26.9	49.02	-	-	-	-	68.2	-19.18	47	227	H
7.20012	39.79	PK-U	36.1	-25.2	50.69	-	-	-	-	68.2	-17.51	7	203	H
10.52011	37.05	PK-U	36.2	-20.9	54.35	-	-	-	-	68.2	-13.85	347	101	H
1.73309	61.56	PK-U	30.4	-35.2	56.76	-	-	-	-	68.2	-11.44	355	142	V
* 4	52.45	PK-U	33.9	-31.9	54.45	-	-	74	-19.55	-	-	15	101	V
* 4	49.96	ADR	33.9	-31.9	51.96	54	-2.04	-	-	-	-	15	101	V
* 4.67577	45.55	PK-U	34.5	-30.7	49.35	-	-	74	-24.65	-	-	23	127	V
* 4.67541	32.88	ADR	34.5	-30.7	36.68	54	-17.32	-	-	-	-	23	127	V
6.23379	41.14	PK-U	36.1	-26.9	50.34	-	-	-	-	68.2	-17.86	303	101	V
7.20004	44.19	PK-U	36.1	-25.2	55.09	-	-	-	-	68.2	-13.11	21	286	V
10.52021	45.24	PK-U	36.2	-20.9	62.54	-	-	-	-	68.2	-5.66	179	392	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

Note: In the above emissions, frequencies other than harmonic are local oscillator generated during product operation regardless of RF transmission and were measured only in worst mode.

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5260	MIMO	10.521	33.84	PK-U	38.20	-20.90	0	51.14	-	-	-	-	-	68.20	-17.06	305	226	H
			10.520	34.80	PK-U	38.20	-20.90	0	52.10	-	-	-	-	-	68.20	-16.10	48	212	V
			10.600	32.45	PK-U	38.30	-21.00	0	49.75	-	-	-	-	-	68.20	-18.45	309	224	H
	5300	MIMO	10.600	33.22	PK-U	38.30	-21.00	0	50.52	-	-	-	-	-	68.20	-17.68	352	254	V
			* 10.64034	33.52	PK-U	38.30	-21.10	0	50.72	-	-	74.00	-23.28	-	-	-	121	397	H
			* 10.64019	22.51	ADR	38.30	-21.10	0	39.71	54.00	-14.29	-	-	-	-	-	121	397	H
			* 10.63989	33.93	PK-U	38.30	-21.10	0	51.13	-	-	74.00	-22.87	-	-	-	348	399	H
			* 10.64001	24.27	ADR	38.30	-21.10	0	41.47	54.00	-12.53	-	-	-	-	-	348	399	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5260	ANT1	10.520	34.09	PK-U	38.20	-20.90	0	51.39	-	-	-	-	-	68.20	-16.81	344	100	H
			10.520	34.83	PK-U	38.20	-21.00	0	52.03	-	-	-	-	-	68.20	-16.17	45	215	V
			10.600	34.06	PK-U	38.30	-21.00	0	51.36	-	-	-	-	-	68.20	-16.84	51	100	H
	5300	ANT1	10.599	30.86	PK-U	38.30	-21.00	0	48.16	-	-	-	-	-	68.20	-20.04	98	278	V
			* 10.63911	31.43	PK-U	38.30	-21.10	0	48.63	-	-	74.00	-25.37	-	-	-	272	294	H
			* 10.63991	22.08	ADR	38.30	-21.10	0	39.28	54.00	-14.72	-	-	-	-	-	272	294	H
			* 10.64029	34.48	PK-U	38.30	-21.10	0	51.68	-	-	74.00	-22.32	-	-	-	49	215	V
			* 10.64001	26.13	ADR	38.30	-21.10	0	43.33	54.00	-10.67	-	-	-	-	-	49	215	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5260	ANT2	10.520	34.49	PK-U	38.20	-21.00	0	51.69	-	-	-	-	-	68.20	-16.51	46	211	V
			10.520	35.20	PK-U	38.20	-21.00	0	52.40	-	-	-	-	-	68.20	-15.80	266	229	H
			10.599	31.61	PK-U	38.30	-21.00	0	48.91	-	-	-	-	-	68.20	-19.29	226	223	H
	5300	ANT2	10.600	33.35	PK-U	38.30	-21.00	0	50.65	-	-	-	-	-	68.20	-17.55	53	210	V
			* 10.6398	33.90	PK-U	38.30	-21.10	0	51.00	-	-	74.00	-23.00	-	-	-	299	226	H
			* 10.64008	24.25	ADR	38.30	-21.10	0	41.45	54.00	-12.55	-	-	-	-	-	299	226	H
			* 10.63997	34.60	PK-U	38.30	-21.10	0	51.90	-	-	74.00	-22.20	-	-	-	53	215	V
			* 10.63988	25.93	ADR	38.30	-21.10	0	43.13	54.00	-10.87	-	-	-	-	-	53	215	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5260	ANT3	10.520	34.17	PK-U	38.20	-21.00	0	51.37	-	-	-	-	-	68.20	-16.83	345	100	H
			10.520	41.69	PK-U	38.20	-21.00	0	58.89	-	-	-	-	-	68.20	-9.31	207	100	V
			10.600	32.84	PK-U	38.30	-21.00	0	50.14	-	-	-	-	-	68.20	-18.06	18	100	H
	5300	ANT3	10.600	40.22	PK-U	38.30	-21.00	0	57.52	-	-	-	-	-	68.20	-10.68	210	106	V
			* 10.64004	34.26	PK-U	38.30	-21.10	0	51.46	-	-	74.00	-22.54	-	-	-	51	100	H
			* 10.63993	25.35	ADR	38.30	-21.10	0	42.55	54.00	-11.45	-	-	-	-	-	51	100	H
			* 10.64026	41.49	PK-U	38.30	-21.10	0	58.69	-	-	74.00	-15.31	-	-	-	207	114	V
			* 10.6398	28.01	ADR	38.30	-21.10	0	45.21	54.00	-8.79	-	-	-	-	-	207	114	V

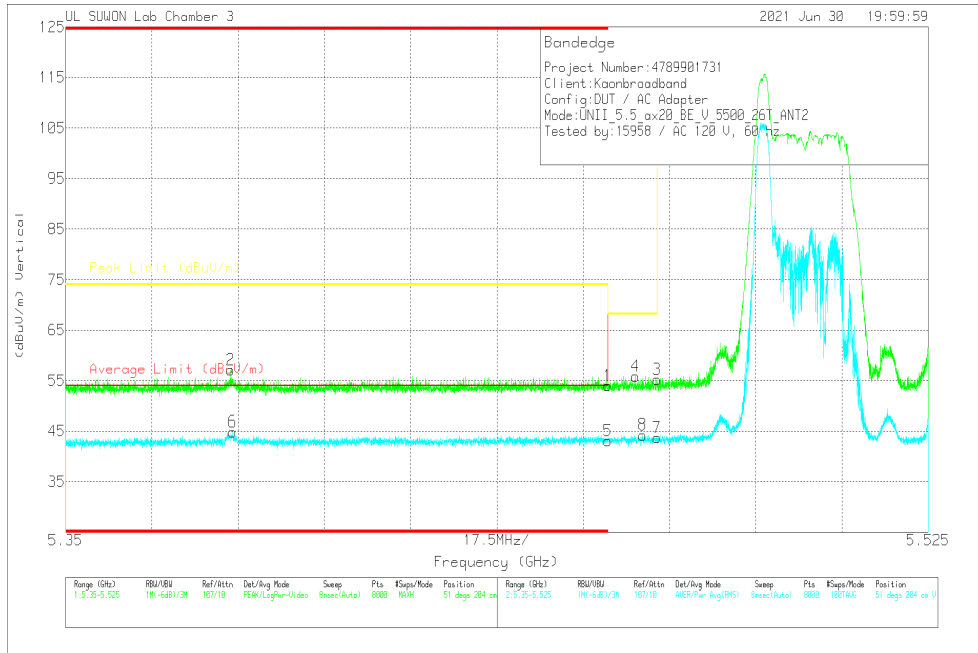
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5260	ANT4	10.520	37.05	PK-U	38.20	-20.90	0	54.35	-	-	-	-	-	68.20	-13.85	347	101	H
			10.520	45.24	PK-U	38.20	-20.90	0	62.54	-	-	-	-	-	68.20	-5.66	179	392	V
			10.600	40.07	PK-U	38.30	-21.00	0	57.37	-	-	-	-	-	68.20	-10.83	238	276	H
	5300	ANT4	10.600	43.16	PK-U	38.30	-21.00	0	60.46	-	-	-	-	-	68.20	-7.74	182	277	V
			* 10.64044	38.72	PK-U	38.30	-21.10	0	55.92	-	-	74.00	-18.08	-	-	-	235	268	H
			* 10.6397	26.24	ADR	38.30	-21.10	0	43.44	54.00	-10.56	-	-	-	-	-	235	268	H
			* 10.64	43.20	PK-U	38.30	-21.10	0	60.40	-	-	74.00	-13.60	-	-	-	175	247	V
			* 10.64018	30.23	ADR	38.30	-21.10	0	47.43	54.00	-6.57	-	-	-	-	-	175	247	V

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.1.5. BAND-EDGE_5.5GHz BAND

WORST CASE: 802.11ax HE20 / ANT2 / 5500 MHz/ 26Tone / 0 RU)

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.45998	39.01	Pk	35.3	-20.3	54.01	-	-	74	-19.99	51	204	V
2	* 5.38343	42.32	Pk	35.2	-20.4	57.12	-	-	74	-16.88	51	204	V
3	5.46998	40.17	Pk	35.3	-20.2	55.27	-	-	68.2	-12.93	51	204	V
4	5.46565	40.89	Pk	35.3	-20.3	55.89	-	-	68.2	-12.31	51	204	V
5	* 5.45998	28.08	RMS	35.3	-20.3	43.08	54	-10.92	-	-	51	204	V
6	* 5.38391	30.09	RMS	35.2	-20.4	44.89	54	-9.11	-	-	51	204	V
7	5.46998	28.57	RMS	35.3	-20.2	43.67	-	-	-	-	51	204	V
8	5.46709	29.17	RMS	35.3	-20.2	44.27	-	-	-	-	51	204	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

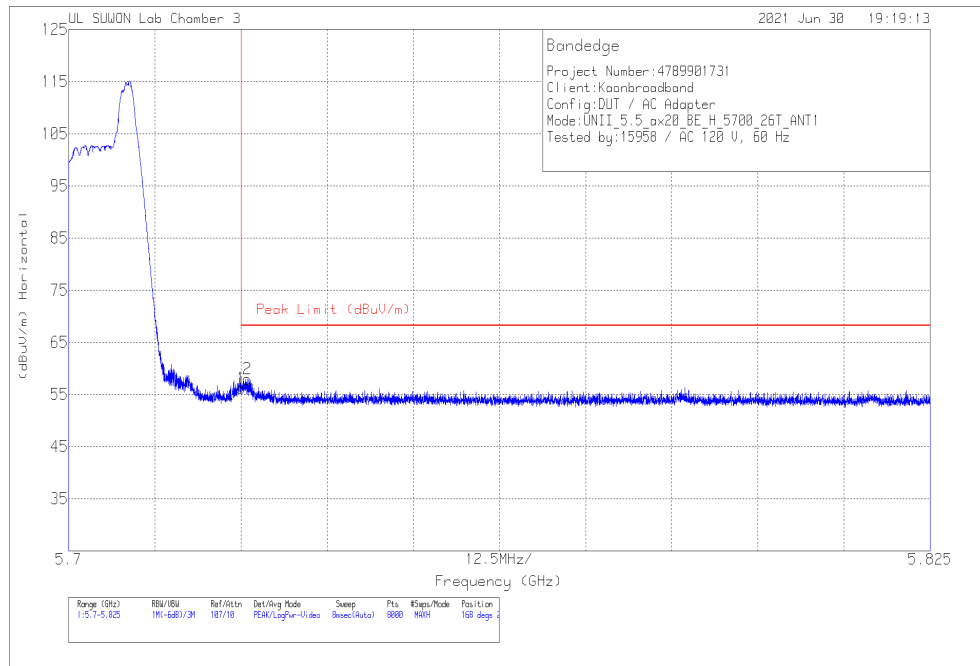
Pk - Peak detector

RMS - RMS detection

Note: In the above emissions, frequencies other than harmonic are local oscillator generated during product operation regardless of RF transmission and were measured only in worst mode.

WORST CASE: 802.11ax HE20 / ANT1 / 5700 MHz/ 26Tone / 8 RU)

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT[dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.17	PK	35.7	-19.7	56.17	68.2	-12.03	168	216	H
2	5.72593	41.84	PK	35.7	-19.6	57.94	68.2	-10.26	168	216	H

Pk - Peak detector

BANDEDGE TEST DATA

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11ax(HE20)	5500	26 Tone / 0 RU	MIMO	* 5.45998	38.43	Pk	35.30	-20.30	0	53.43	-	-	74.00	-20.57	206	210	H		
				* 5.45219	40.26	Pk	35.30	-20.20	0	55.36	-	-	-	74.00	-18.64	206	210	H	
				5.46998	37.70	Pk	35.30	-20.20	0	52.80	-	-	-	68.20	-15.40	206	210	H	
				5.46746	39.76	Pk	35.30	-20.20	0	54.86	-	-	-	68.20	-13.34	206	210	H	
				* 5.45998	27.67	RMS	35.30	-20.30	0	42.67	54.00	-11.33	-	-	-	-	206	210	H
				* 5.45622	28.37	RMS	35.30	-20.20	0	43.47	54.00	-10.53	-	-	-	-	206	210	H
				* 5.45998	37.44	Pk	35.30	-20.30	0	52.44	-	-	-	74.00	-21.56	177	234	V	
				* 5.43837	40.49	Pk	35.30	-20.30	0	55.49	-	-	-	74.00	-18.51	177	234	V	
				5.46998	37.86	Pk	35.30	-20.20	0	52.96	-	-	-	68.20	-15.24	177	234	V	
				5.46221	39.52	Pk	35.30	-20.30	0	54.52	-	-	-	68.20	-13.68	177	234	V	
	* 5.45998	27.36	RMS	35.30	-20.30	0	42.36	54.00	-11.64	-	-	-	-	177	234	V			
	* 5.44537	28.50	RMS	35.30	-20.30	0	43.50	54.00	-10.50	-	-	-	-	177	234	V			
	5700	26 Tone / 8 RU	MIMO	5.72500	37.69	Pk	35.70	-19.70	0	53.69	-	-	-	68.20	-14.51	160	275	H	
				5.77065	40.10	Pk	35.70	-19.50	0	56.30	-	-	-	68.20	-11.90	160	275	H	
				5.72500	38.07	Pk	35.70	-19.70	0	54.07	-	-	-	68.20	-14.13	335	276	V	
				5.76748	40.10	Pk	35.70	-19.60	0	56.20	-	-	-	68.20	-12.00	335	276	V	

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11ax(HE20)	5500	26 Tone / 0 RU	ANT1	* 5.45998	37.49	Pk	35.30	-20.30	0	52.49	-	-	74.00	-21.51	183	245	H		
				* 5.43134	40.75	Pk	35.30	-20.30	0	55.75	-	-	74.00	-18.25	183	245	H		
				5.46998	37.20	Pk	35.30	-20.20	0	52.30	-	-	-	68.20	-15.90	183	245	H	
				5.46162	40.48	Pk	35.30	-20.20	0	55.58	-	-	-	68.20	-12.62	183	245	H	
				* 5.45998	28.20	RMS	35.30	-20.40	0	43.20	54.00	-10.80	-	-	-	-	183	245	H
				* 5.38339	29.57	RMS	35.20	-20.40	0	44.37	54.00	-9.63	-	-	-	-	183	245	H
				* 5.45998	37.99	Pk	35.30	-20.30	0	52.99	-	-	-	74.00	-21.01	163	259	V	
				* 5.41826	40.67	Pk	35.20	-20.30	0	55.57	-	-	-	74.00	-18.43	163	259	V	
				5.46998	38.75	Pk	35.30	-20.20	0	53.85	-	-	-	68.20	-14.35	163	259	V	
				5.46943	39.95	Pk	35.30	-20.30	0	54.95	-	-	-	68.20	-13.25	163	259	V	
	* 5.45998	26.99	RMS	35.30	-20.30	0	41.99	54.00	-12.01	-	-	-	-	163	259	V			
	* 5.45232	28.56	RMS	35.30	-20.20	0	43.66	54.00	-10.34	-	-	-	-	163	259	V			
	5700	26 Tone / 8 RU	ANT1	5.72500	40.17	Pk	35.70	-19.70	0	56.17	-	-	-	68.20	-12.03	168	216	H	
				5.72593	41.84	Pk	35.70	-19.60	0	57.94	-	-	-	68.20	-10.26	168	216	H	
				5.72500	37.69	Pk	35.70	-19.70	0	53.69	-	-	-	68.20	-14.51	116	313	V	
				5.72575	41.38	Pk	35.70	-19.60	0	57.48	-	-	-	68.20	-10.72	116	313	V	

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11ax(HE20)	5500	26 Tone / 0 RU	ANT2	* 5.45998	36.99	Pk	35.30	-20.30	0	51.99	-	-	74.00	-22.01	180	281	H		
				* 5.44578	40.06	Pk	35.30	-20.30	0	55.06	-	-	74.00	-18.94	180	281	H		
				5.46998	36.78	Pk	35.30	-20.20	0	51.88	-	-	-	68.20	-16.32	180	281	H	
				5.46799	39.03	Pk	35.30	-20.20	0	54.13	-	-	-	68.20	-14.07	180	281	H	
				* 5.45998	26.96	RMS	35.30	-20.30	0	41.96	54.00	-12.04	-	-	-	-	180	281	H
				* 5.45534	28.23	RMS	35.30	-20.30	0	43.23	54.00	-10.77	-	-	-	-	180	281	H
				* 5.45998	39.01	Pk	35.30	-20.30	0	54.01	-	-	-	74.00	-19.99	51	204	V	
				* 5.38343	42.32	Pk	35.20	-20.40	0	57.12	-	-	-	74.00	-16.88	51	204	V	
				5.46998	40.17	Pk	35.30	-20.20	0	55.27	-	-	-	68.20	-12.93	51	204	V	
				5.46565	40.89	Pk	35.30	-20.30	0	55.89	-	-	-	68.20	-12.31	51	204	V	
	* 5.45998	28.08	RMS	35.30	-20.30	0	43.08	54.00	-10.92	-	-	-	-	51	204	V			
	* 5.38391	30.09	RMS	35.20	-20.40	0	44.89	54.00	-9.11	-	-	-	-	51	204	V			
	5700	26 Tone / 8 RU	ANT2	5.72500	37.82	Pk	35.70	-19.70	0	53.82	-	-	-	68.20	-14.38	258	193	H	
				5.73060	39.70	Pk	35.70	-19.60	0	55.80	-	-	-	68.20	-12.40	258	193	H	
				5.72500	37.77	Pk	35.70	-19.70	0	53.77	-	-	-	68.20	-14.43	96	201	V	
				5.74822	40.73	Pk	35.70	-19.60	0	56.83	-	-	-	68.20	-11.37	96	201	V	

Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

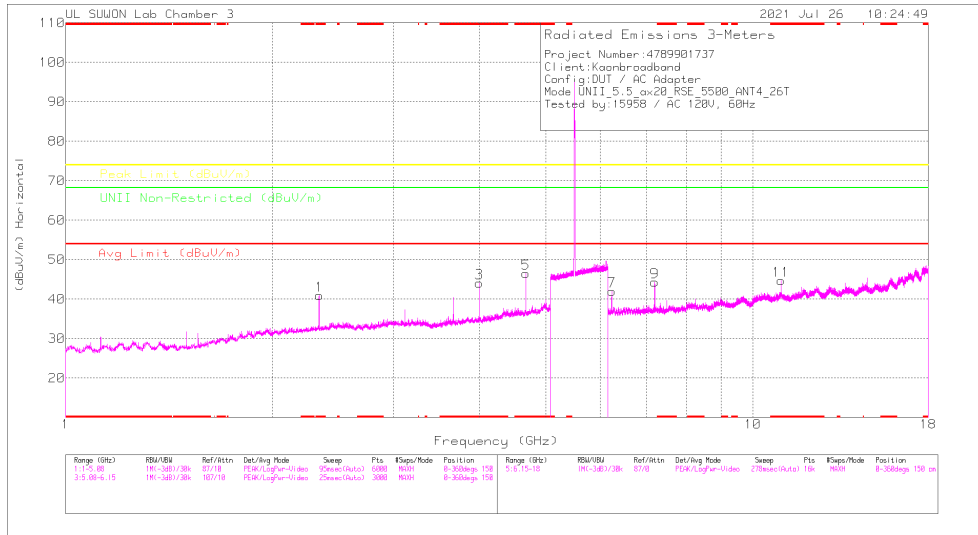
Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11ax(HE20)	5500	26 Tone / 0 RU	ANT3	* 5.45998	38.61	Pk	35.30	-20.30	0	53.61	-	-	74.00	-20.39	217	183	H		
				* 5.45414	40.80	Pk	35.30	-20.30	0	55.80	-	-	-	74.00	-18.20	217	183	H	
				5.46998	39.56	Pk	35.30	-20.20	0	54.66	-	-	-	68.20	-13.54	217	183	H	
				5.46913	41.03	Pk	35.30	-20.30	0	56.03	-	-	-	68.20	-12.17	217	183	H	
				* 5.45998	28.28	RMS	35.30	-20.30	0	43.28	54.00	-10.72	-	-	-	-	217	183	H
				* 5.446	29.43	RMS	35.30	-20.30	0	44.43	54.00	-9.57	-	-	-	-	217	183	H
				* 5.45998	37.76	Pk	35.30	-20.30	0	52.76	-	-	-	74.00	-21.24	101	245	V	
				* 5.43366	40.19	Pk	35.30	-20.30	0	55.19	-	-	-	74.00	-18.81	101	245	V	
				5.46998	36.98	Pk	35.30	-20.20	0	52.08	-	-	-	68.20	-16.12	101	245	V	
				5.46451	40.04	Pk	35.30	-20.20	0	55.14	-	-	-	68.20	-13.06	101	245	V	
	* 5.45998	27.88	RMS	35.30	-20.30	0	42.88	54.00	-11.12	-	-	-	-	101	245	V			
	* 5.45652	28.64	RMS	35.30	-20.20	0	43.74	54.00	-10.26	-	-	-	-	101	245	V			
	5.72500	38.59	Pk	35.70	-19.70	0	54.59	-	-	-	68.20	-13.61	221	185	H				
	5.78099	40.89	Pk	35.80	-19.50	0	57.19	-	-	-	68.20	-11.01	221	185	H				
	5.72500	37.77	Pk	35.70	-19.70	0	53.77	-	-	-	68.20	-14.43	96	201	V				
	5.74822	40.73	Pk	35.70	-19.60	0	56.83	-	-	-	68.20	-11.37	96	201	V				

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity		
802.11ax(HE20)	5500	26 Tone / 0 RU	ANT4	* 5.45998	36.80	Pk	35.30	-20.30	0	51.60	-	-	74.00	-22.40	84	203	H		
				* 5.4059	39.76	Pk	35.20	-20.30	0	54.66	-	-	-	74.00	-19.34	84	203	H	
				5.46998	36.65	Pk	35.30	-20.20	0	51.75	-	-	-	68.20	-16.45	84	203	H	
				5.46738	38.81	Pk	35.30	-20.20	0	53.91	-	-	-	68.20	-14.29	84	203	H	
				* 5.45998	27.24	RMS	35.30	-20.30	0	42.24	54.00	-11.76	-	-	-	-	84	203	H
				* 5.41421	28.30	RMS	35.20	-20.30	0	43.20	54.00	-10.80	-	-	-	-	84	203	H
				* 5.45998	38.83	Pk	35.30	-20.30	0	53.83	-	-	-	74.00	-20.17	197	249	V	
				* 5.44241	40.52	Pk	35.30	-20.30	0	55.52	-	-	-	74.00	-18.48	197	249	V	
				5.46998	36.92	Pk	35.30	-20.20	0	52.02	-	-	-	68.20	-16.18	197	249	V	
				5.46628	40.08	Pk	35.30	-20.30	0	55.08	-	-	-	68.20	-13.12	197	249	V	
	* 5.45998	27.47	RMS	35.30	-20.30	0	42.47	54.00	-11.53	-	-	-	-	197	249	V			
	* 5.3819	29.19	RMS	35.20	-20.40	0	43.99	54.00	-10.01	-	-	-	-	197	249	V			
	5.72500	36.33	Pk	35.70	-19.70	0	52.33	-	-	-	68.20	-15.87	92	212	H				
	5.81028	39.56	Pk	35.80	-19.50	0	55.86	-	-	-	68.20	-12.34	92	212	H				
	5.72500	39.03	Pk	35.70	-19.70	0	55.03	-	-	-	68.20	-13.17	341	152	V				
	5.72794	41.25	Pk	35.70	-19.60	0	57.35	-	-	-	68.20	-10.85	341	152	V				

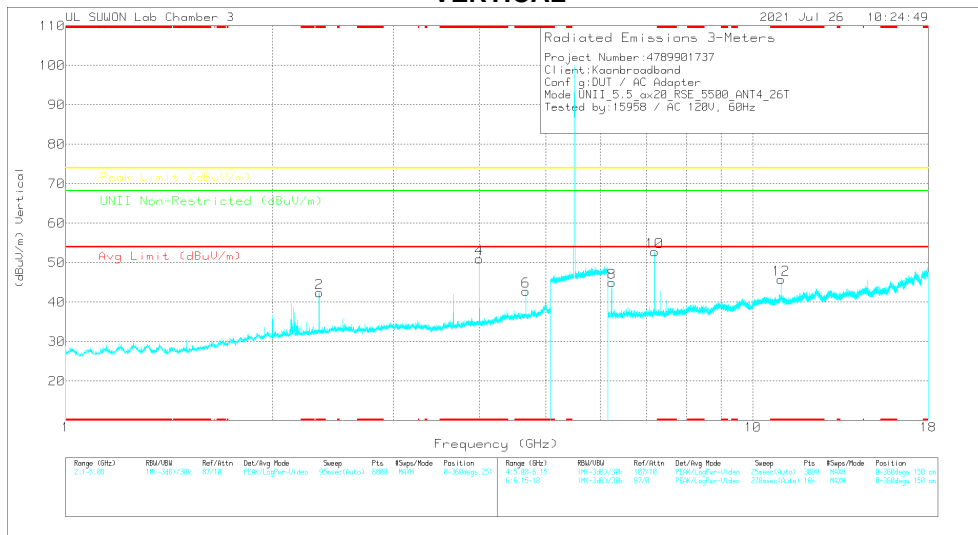
Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.1.6. HARMONICS AND SPURIOUS EMISSIONS_5.5GHz BAND
WORST CASE: 802.11ax HE20 / 26T / ANT4 / 5500MHZ)

HORIZONTAL



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5500 MHz DATA

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	5GHz_LP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
* 2.3381	54.73	PK-U	32.6	-34.2	53.13	-	-	74	-20.87	-	-	294	269	H
* 2.33778	35.13	ADR	32.6	-34.2	33.53	54	-20.47	-	-	-	-	294	269	H
* 4.00003	50	PK-U	33.9	-31.9	52	-	-	74	-22	-	-	319	378	H
* 4.00005	45.87	ADR	33.9	-31.9	47.87	54	-6.13	-	-	-	-	319	378	H
* 4.67549	49.15	PK-U	34.5	-30.7	52.95	-	-	74	-21.05	-	-	359	183	H
* 4.67493	34.61	ADR	34.5	-30.6	38.51	54	-15.49	-	-	-	-	359	183	H
6.23266	40.73	PK-U	36.1	-26.9	49.93	-	-	-	-	68.2	-18.27	341	151	H
7.20003	39.91	PK-U	36.1	-25.2	50.81	-	-	-	-	68.2	-17.39	32	195	H
* 10.99985	35.34	PK-U	38.5	-21.2	52.64	-	-	74	-21.36	-	-	1	148	H
* 10.99985	29.89	ADR	38.5	-21.2	43.19	54	-10.81	-	-	-	-	1	148	H
* 2.33773	59.74	PK-U	32.6	-34.2	58.14	-	-	74	-15.86	-	-	312	118	V
* 2.33747	39.2	ADR	32.5	-34.2	37.5	54	-16.5	-	-	-	-	312	118	V
* 4.00005	52.67	PK-U	33.9	-31.9	54.67	-	-	74	-19.33	-	-	17	101	V
* 3.99995	50.12	ADR	33.9	-31.9	52.12	54	-1.88	-	-	-	-	17	101	V
* 4.67499	45.39	PK-U	34.5	-30.6	49.29	-	-	74	-24.71	-	-	28	101	V
* 4.67543	32.98	ADR	34.5	-30.7	36.78	54	-17.22	-	-	-	-	28	101	V
6.23339	41.94	PK-U	36.1	-26.9	51.14	-	-	-	-	68.2	-17.06	311	110	V
7.2	44.74	PK-U	36.1	-25.2	55.64	-	-	-	-	68.2	-12.56	14	319	V
* 11.00034	47.48	PK-U	38.5	-21.2	64.78	-	-	74	-9.22	-	-	208	154	V
* 11.00034	34.7	ADR	38.5	-21.2	52	54	-2	-	-	-	-	208	154	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

Note: In the above emissions, frequencies other than harmonic are local oscillator generated during product operation regardless of RF transmission and were measured only in worst mode.

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5500	MIMO	* 10.99972	34.67	PK-U	38.50	-21.20	0	51.97	-	-	74.00	-22.03	-	-	17	100	H	
			** 10.99988	26.80	ADR	38.50	-21.20	0	44.10	54.00	-9.90	-	-	-	-	-	17	100	H
			** 10.99982	35.83	PK-U	38.50	-21.20	0	53.13	-	-	-	74.00	-20.87	-	-	352	274	V
			** 11.00002	28.83	ADR	38.50	-21.20	0	46.13	54.00	-7.87	-	-	-	-	-	352	274	V
	5580	MIMO	* 11.19986	35.02	PK-U	38.60	-21.30	0	52.32	-	-	74.00	-21.68	-	-	-	305	103	H
			** 11.2001	26.02	ADR	38.60	-21.30	0	43.32	54.00	-10.68	-	-	-	-	-	305	103	H
			** 11.20026	36.23	PK-U	38.60	-21.30	0	53.53	-	-	-	74.00	-20.47	-	-	352	264	V
			** 11.20034	28.23	ADR	38.60	-21.30	0	45.63	54.00	-8.37	-	-	-	-	-	352	264	V
	5700	MIMO	* 11.39995	33.06	PK-U	38.60	-21.40	0	50.26	-	-	74.00	-23.74	-	-	-	50	101	H
			** 11.39989	23.79	ADR	38.60	-21.40	0	40.99	54.00	-13.01	-	-	-	-	-	50	101	H
			** 11.39983	35.27	PK-U	38.60	-21.40	0	52.47	-	-	-	74.00	-21.53	-	-	349	395	V
			** 11.39985	27.53	ADR	38.60	-21.40	0	44.23	54.00	-9.77	-	-	-	-	-	349	395	V
	5720	MIMO	* 11.44016	26.58	ADR	38.60	-21.30	0	43.89	54.00	-10.12	-	-	-	-	-	342	266	V
			** 11.43995	23.51	ADR	38.60	-21.30	0	40.81	54.00	-13.19	-	-	-	-	-	342	266	V
			** 11.44009	34.75	PK-U	38.60	-21.30	0	52.05	-	-	-	74.00	-21.95	-	-	342	266	V
			** 11.44028	33.75	PK-U	38.60	-21.30	0	51.05	-	-	-	74.00	-22.95	-	-	296	253	H

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5500	ANT1	* 10.99983	35.12	PK-U	38.50	-21.20	0	52.42	-	-	74.00	-21.58	-	-	14	100	H	
			** 11.00001	26.01	ADR	38.50	-21.20	0	43.31	54.00	-10.69	-	-	-	-	-	14	100	H
			** 10.99962	34.55	PK-U	38.50	-21.20	0	51.85	-	-	-	74.00	-22.15	-	-	22	207	V
			** 10.99998	26.45	ADR	38.50	-21.20	0	43.75	54.00	-10.25	-	-	-	-	-	22	207	V
	5580	ANT1	* 11.19996	35.21	PK-U	38.60	-21.30	0	52.51	-	-	74.00	-21.49	-	-	-	347	101	H
			** 11.1999	26.01	ADR	38.60	-21.30	0	43.31	54.00	-10.69	-	-	-	-	-	347	101	H
			** 11.20042	42.87	PK-U	38.60	-21.30	0	60.17	-	-	-	74.00	-13.83	-	-	154	223	V
			** 11.19974	30.21	ADR	38.60	-21.30	0	47.51	54.00	-6.49	-	-	-	-	-	154	223	V
	5700	ANT1	* 11.40016	37.15	PK-U	38.60	-21.40	0	54.35	-	-	74.00	-19.65	-	-	-	51	100	H
			** 11.39998	25.62	ADR	38.60	-21.40	0	42.82	54.00	-11.18	-	-	-	-	-	51	100	H
			** 11.40036	44.23	PK-U	38.60	-21.40	0	61.43	-	-	-	74.00	-12.57	-	-	151	168	V
			** 11.40026	30.95	ADR	38.60	-21.40	0	48.15	54.00	-5.85	-	-	-	-	-	151	168	V
	5720	ANT1	* 11.39988	32.80	PK-U	38.60	-21.40	0	50.00	-	-	74.00	-24.00	-	-	-	54	329	H
			** 11.4	23.41	ADR	38.60	-21.40	0	40.61	54.00	-13.39	-	-	-	-	-	54	329	H
			** 11.39999	34.75	PK-U	38.60	-21.40	0	51.95	-	-	-	74.00	-22.05	-	-	349	395	V
			** 11.39975	26.81	ADR	38.60	-21.40	0	43.91	54.00	-10.09	-	-	-	-	-	349	395	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5500	ANT2	* 11.0002	40.50	PK-U	38.50	-21.20	0	57.80	-	-	74.00	-16.20	-	-	232	352	H	
			** 10.99977	27.64	ADR	38.50	-21.20	0	44.94	54.00	-9.06	-	-	-	-	-	232	352	H
			** 11.00031	45.35	PK-U	38.50	-21.20	0	62.65	-	-	-	74.00	-11.35	-	-	167	290	V
			** 10.99995	32.17	ADR	38.50	-21.20	0	49.47	54.00	-4.53	-	-	-	-	-	167	290	V
	5580	ANT2	* 11.20016	41.25	PK-U	38.60	-21.30	0	59.55	-	-	74.00	-15.45	-	-	-	34	153	H
			** 11.19994	28.54	ADR	38.60	-21.30	0	45.35	54.00	-8.16	-	-	-	-	-	34	153	H
			** 11.20032	46.57	PK-U	38.60	-21.30	0	63.87	-	-	-	74.00	-10.13	-	-	167	272	V
			** 11.20004	33.49	ADR	38.60	-21.30	0	50.79	54.00	-3.21	-	-	-	-	-	167	272	V
	5700	ANT2	* 11.4006	39.14	PK-U	38.60	-21.40	0	56.34	-	-	74.00	-17.66	-	-	-	291	361	H
			** 11.39996	25.63	ADR	38.60	-21.40	0	42.83	54.00	-11.17	-	-	-	-	-	291	361	H
			** 11.40043	43.40	PK-U	38.60	-21.40	0	60.60	-	-	-	74.00	-13.40	-	-	226	172	V
			** 11.39987	30.63	ADR	38.60	-21.40	0	47.83	54.00	-6.17	-	-	-	-	-	226	172	V
	5720	ANT2	* 11.44008	39.49	PK-U	38.60	-21.30	0	56.79	-	-	74.00	-17.21	-	-	-	296	356	H
			** 11.43998	26.47	ADR	38.60	-21.30	0	43.77	54.00	-10.23	-	-	-	-	-	296	356	H
			** 11.44003	43.19	PK-U	38.60	-21.30	0	60.49	-	-	-	74.00	-13.51	-	-	211	200	V
			** 11.43984	30.63	ADR	38.60	-21.30	0	47.93	54.00	-6.07	-	-	-	-	-	211	200	V

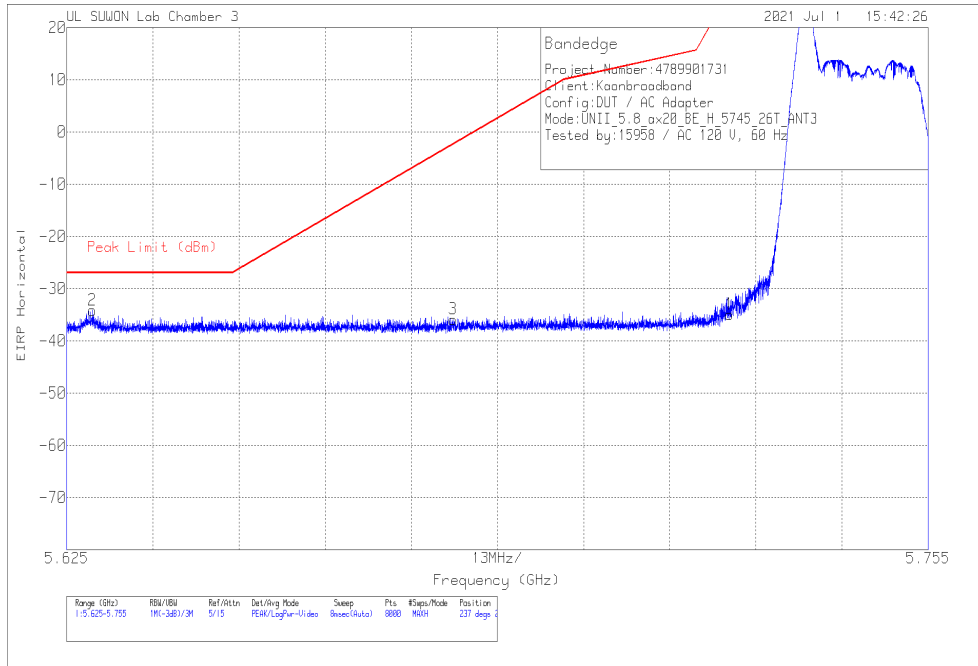
Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5500	ANT3	* 11.00002	34.80	PK-U	38.50	-21.20	0	52.10	-	-	74.00	-21.90	-	-	53	101	H	
			** 10.99984	26.15	ADR	38.50	-21.20	0	43.45	54.00	-10.55	-	-	-	-	-	53	101	H
			** 10.99991	37.69	PK-U	38.50	-21.20	0	54.99	-	-	-	74.00	-19.01	-	-	20	218	V
			** 10.99977	26.97	ADR	38.50	-21.20	0	44.27	54.00	-9.73	-	-	-	-	-	20	218	V
	5580	ANT3	* 11.19998	34.64	PK-U	38.60	-21.30	0	51.94	-	-	74.00	-22.06	-	-	-	57	357	H
			** 11.20002	24.31	ADR	38.60	-21.30	0	41.61	54.00	-12.39	-	-	-	-	-	57	357	H
			** 11.19997	36.82	PK-U	38.60	-21.30	0	54.12	-	-	-	74.00	-19.88	-	-	346	264	V
			** 11.19995	28.91	ADR	38.60	-21.30	0	46.21	54.00	-7.79	-	-	-	-	-	346	264	V
	5700	ANT3	* 11.3995	32.91	PK-U	38.60	-21.50	0	50.01	-	-	74.00	-23.99	-	-	-	4	150	H
			** 11.39974	23.17	ADR	38.60	-21.50	0	40.27	54.00	-13.73	-	-	-	-	-	4	150	H
			** 11.39985	34.70	PK-U	38.60	-21.40	0	51.90	-	-	-	74.00	-22.10	-	-	341	392	V
			** 11.39997	26.74	ADR	38.60	-21.40	0	45.94	54.00	-10.06	-	-	-	-	-	341	392	V
	5720	ANT3	* 11.44046	37.96	PK-U	38.60	-21.30	0	55.26	-	-	74.00	-18.74	-	-	-	100	132	H
			** 11.43998	23.02	ADR	38.60	-21.30	0	40.32	54.00	-13.68	-	-	-	-	-	100	132	H
			** 11.43983	34.77	PK-U	38.60	-21.30	0	52.07	-	-	-	74.00	-21.93	-	-	341	400	V
			** 11.43991	27.47	ADR	38.60	-21.30	0	44.77	54.00	-9.23	-	-	-	-	-	341	400	V

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
802.11ax(HE20)	5500	ANT4	* 10.99985	35.34	PK-U	38.50	-21.20	0	52.64	-	-	74.00	-21.36	-	-	1	148	H	
			** 10.99985	25.89	ADR	38.50	-21.20	0	43.19	54.00	-10.81	-	-	-	-	-	1	148	H
			** 11.00034	47.48	PK-U	38.50	-21.20	0	64.78	-	-	-	74.00	-9.22	-	-	208	154	V
			** 11.00034	34.70	ADR	38.50													

11.1.7. BAND-EDGE_5.8GHz BAND

WORST CASE: 802.11ax HE20 / ANT3 / 5745 MHz / 26Tone / 0 RUJ

HORIZONTAL PEAK PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	3117_00218957	10dB_ATT[dB]	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-62.62	Pk	35.6	-19.7	11.8	0	-34.92	27	-61.92	237	258	H
2	5.62885	-61.45	Pk	35.5	-20	11.8	0	-34.15	-27	-7.15	237	258	H
3	5.68328	-63.46	Pk	35.6	-19.8	11.8	0	-35.86	-2.37	-33.49	237	258	H

Pk - Peak detector

BANDEDGE TEST DATA

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBm]	Detector Mode	ANT Factor	Loss [dB]	Conv. F [dB]	DC Corr [dB]	Result [dBm]	PK Limit [dBm]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	26 Tone / 0 RU	MIMO	5.72500	-63.93	Pk	35.60	-19.70	11.80	0	-36.23	27.00	-63.23	223	201	H
				5.63675	-62.19	Pk	35.50	-20.00	11.80	0	-34.89	-27.00	-7.89	223	201	H
				5.72500	-61.09	Pk	35.60	-19.70	11.80	0	-33.39	27.00	-60.39	322	197	V
				5.62763	-62.63	Pk	35.50	-20.00	11.80	0	-35.33	-27.00	-8.33	322	197	V
				5.85001	-64.14	Pk	35.90	-19.40	11.80	0	-35.84	26.99	-62.83	342	184	H
	5825	26 Tone / 8 RU	MIMO	5.97407	-62.94	Pk	36.00	-19.40	11.80	0	-34.54	-27.00	-7.54	342	184	H
				5.85001	-63.96	Pk	35.90	-19.40	11.80	0	-35.66	26.99	-62.65	343	179	V
				5.94219	-62.74	Pk	36.00	-19.40	11.80	0	-34.34	-27.00	-7.34	343	179	V

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBm]	Detector Mode	ANT Factor	Loss [dB]	Conv. F [dB]	DC Corr [dB]	Result [dBm]	PK Limit [dBm]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	26 Tone / 0 RU	ANT1	5.72500	-61.36	Pk	35.60	-19.70	11.80	0	-33.66	27.00	-60.66	174	252	H
				5.62791	-62.83	Pk	35.50	-20.00	11.80	0	-35.53	-27.00	-8.53	174	252	H
				5.72500	-66.03	Pk	35.60	-19.70	11.80	0	-38.33	27.00	-65.33	103	357	V
				5.64379	-62.17	Pk	35.50	-20.00	11.80	0	-34.87	-27.00	-7.87	103	357	V
				5.85001	-61.86	Pk	35.90	-19.40	11.80	0	-33.56	26.99	-60.55	176	267	H
	5825	26 Tone / 8 RU	ANT1	5.97407	-62.86	Pk	36.00	-19.40	11.80	0	-34.46	-27.00	-7.46	176	267	H
				5.85001	-64.86	Pk	35.90	-19.40	11.80	0	-36.56	26.99	-63.55	105	378	V
				5.92514	-63.32	Pk	36.00	-19.40	11.80	0	-34.92	-27.00	-7.92	105	378	V

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBm]	Detector Mode	ANT Factor	Loss [dB]	Conv. F [dB]	DC Corr [dB]	Result [dBm]	PK Limit [dBm]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	26 Tone / 0 RU	ANT2	5.72500	-66.12	Pk	35.60	-19.70	11.80	0	-38.42	27.00	-65.42	264	191	H
				5.64871	-64.16	Pk	35.50	-19.90	11.80	0	-36.76	-27.00	-9.76	264	191	H
				5.72500	-59.58	Pk	35.60	-19.70	11.80	0	-31.88	27.00	-58.88	111	197	V
				5.62874	-62.61	Pk	35.50	-20.00	11.80	0	-35.31	-27.00	-8.31	111	197	V
				5.85001	-65.49	Pk	35.90	-19.40	11.80	0	-37.19	26.99	-64.18	264	179	H
	5825	26 Tone / 8 RU	ANT2	5.95999	-63.83	Pk	36.00	-19.40	11.80	0	-35.43	-27.00	-8.43	264	179	H
				5.85001	-64.07	Pk	35.90	-19.40	11.80	0	-35.77	26.99	-62.76	47	100	V
				5.92832	-63.32	Pk	36.00	-19.40	11.80	0	-34.92	-27.00	-7.92	47	100	V

Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBm]	Detector Mode	ANT Factor	Loss [dB]	Conv. F [dB]	DC Corr [dB]	Result [dBm]	PK Limit [dBm]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	26 Tone / 0 RU	ANT3	5.72500	-62.62	Pk	35.60	-19.70	11.80	0	-34.92	27.00	-61.92	237	258	H
				5.62885	-61.45	Pk	35.50	-20.00	11.80	0	-34.15	-27.00	-7.15	237	258	H
				5.72500	-65.55	Pk	35.60	-19.70	11.80	0	-37.85	27.00	-64.85	237	108	V
				5.63509	-63.22	Pk	35.50	-20.00	11.80	0	-35.92	-27.00	-8.92	237	108	V
				5.85001	-65.07	Pk	35.90	-19.40	11.80	0	-36.77	26.99	-63.76	235	254	H
	5825	26 Tone / 8 RU	ANT3	5.92784	-63.05	Pk	36.00	-19.40	11.80	0	-34.65	-27.00	-7.65	235	254	H
				5.85001	-67.25	Pk	35.90	-19.40	11.80	0	-38.95	26.99	-65.94	236	104	V
				5.92572	-64.30	Pk	36.00	-19.40	11.80	0	-35.90	-27.00	-8.90	236	104	V

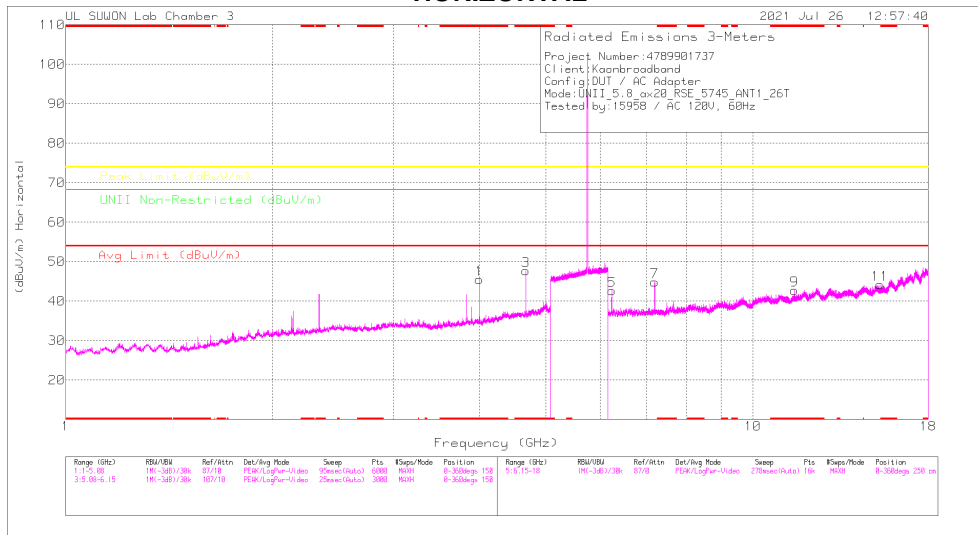
Mode	Freq. [MHz]	Tone / RU	Antenna	Frequency [GHz]	Reading [dBm]	Detector Mode	ANT Factor	Loss [dB]	Conv. F [dB]	DC Corr [dB]	Result [dBm]	PK Limit [dBm]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	26 Tone / 0 RU	ANT4	5.72500	-64.53	Pk	35.60	-19.70	11.80	0	-36.83	27.00	-63.83	281	199	H
				5.64086	-63.39	Pk	35.50	-20.00	11.80	0	-36.09	-27.00	-9.09	281	199	H
				5.72500	-55.51	Pk	35.60	-19.70	11.80	0	-27.81	27.00	-54.81	336	179	V
				5.62537	-62.53	Pk	35.50	-20.00	11.80	0	-35.23	-27.00	-8.23	336	179	V
				5.85001	-65.45	Pk	35.90	-19.40	11.80	0	-37.15	26.99	-64.14	85	200	H
	5825	26 Tone / 8 RU	ANT4	5.92962	-63.50	Pk	36.00	-19.40	11.80	0	-35.10	-27.00	-8.10	85	200	H
				5.85001	-65.41	Pk	35.90	-19.40	11.80	0	-37.11	26.99	-64.10	314	102	V
				5.94132	-63.23	Pk	36.00	-19.40	11.80	0	-34.83	-27.00	-7.83	314	102	V

Note1. Pk - Peak detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Note3.

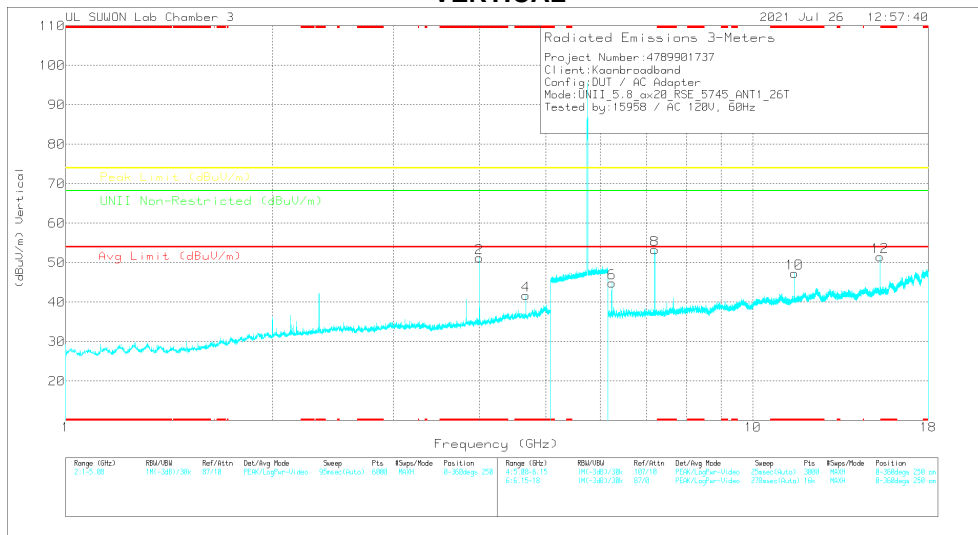
11.1.8. HARMONICS AND SPURIOUS EMISSIONS_5.8GHz BAND

WORST CASE: 802.11ax HE20 / 26T / ANT1 / 5745 MHz

HORIZONTAL



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5745 MHz DATA

Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00218957	5GHz_LP(dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
* 3.99997	50.23	PK-U	33.9	-31.9	52.23	-	-	74	-21.77	-	-	310	400	H
* 4.00001	42.54	ADR	33.9	-31.9	44.54	54	-9.46	-	-	-	-	310	339	H
* 4.67546	47.19	PK-U	34.5	-30.7	50.99	-	-	74	-23.01	-	-	343	336	H
* 4.67565	34.35	ADR	34.5	-30.7	38.15	54	-15.85	-	-	-	-	343	336	H
6.23407	39.9	PK-U	36.1	-26.9	49.1	-	-	-	-	68.2	-19.1	358	147	H
7.19983	39.7	PK-U	36.1	-25.2	50.6	-	-	-	-	68.2	-17.6	13	232	H
15.31924	34.92	PK-U	40	-21.1	53.82	-	-	-	-	68.2	-14.38	328	350	H
*11.48026	42.01	PK-U	38.7	-21.4	59.31	-	-	74	-14.69	-	-	288	400	H
*11.48994	28.74	ADR	38.7	-21.4	46.04	54	-7.96	-	-	-	-	288	400	H
* 3.99992	52.93	PK-U	33.9	-31.9	54.93	-	-	74	-19.07	-	-	11	103	V
* 3.99998	50.55	ADR	33.9	-31.9	52.55	54	-1.45	-	-	-	-	11	103	V
* 4.67527	44.65	PK-U	34.5	-30.7	48.45	-	-	74	-25.55	-	-	45	104	V
* 4.67551	31.82	ADR	34.5	-30.7	35.62	54	-18.38	-	-	-	-	45	104	V
6.23412	41.68	PK-U	36.1	-26.9	50.88	-	-	-	-	68.2	-17.32	13	390	V
*11.4901	47.62	PK-U	38.7	-21.4	65.12	-	-	74	-8.88	-	-	165	281	V
*11.49004	34.45	ADR	38.7	-21.4	51.75	54	-2.25	-	-	-	-	165	281	V
15.31996	38.39	PK-U	40	-21.1	57.29	-	-	-	-	68.2	-10.91	356	396	V
7.19988	44.58	PK-U	36.1	-25.2	55.48	-	-	-	-	68.2	-12.72	15	296	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

Note: In the above emissions, frequencies other than harmonic are local oscillator generated during product operation regardless of RF transmission and were measured only in worst mode.

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	MIMO	* 11.4918	42.72	PK-U	38.70	-21.40	0	60.02	-	-	74.00	-13.98	-	-	196	143	H
			* 11.48963	29.49	ADR	38.70	-21.40	0	46.79	54.00	-7.21	-	-	-	-	196	143	H
			* 11.49049	48.15	PK-U	38.70	-21.40	0	65.45	-	-	-	-	-	-	150	150	V
			* 11.49027	34.13	ADR	38.70	-21.40	0	51.43	54.00	-2.57	-	-	-	-	150	150	V
	5785	MIMO	* 11.5711	35.76	PK-U	38.80	-21.60	0	52.96	-	-	74.00	-21.04	-	-	53	209	H
			* 11.57137	24.23	ADR	38.80	-21.60	0	41.49	54.00	-12.51	-	-	-	53	209	H	
			* 11.57121	38.90	PK-U	38.80	-21.60	0	56.00	-	-	74.00	-18.00	-	-	155	156	V
			* 11.55983	26.98	ADR	38.80	-21.60	0	44.18	54.00	-9.82	-	-	-	155	156	V	
	5825	MIMO	* 11.64989	41.74	PK-U	38.80	-21.50	0	59.04	-	-	74.00	-14.96	-	-	49	100	H
			* 11.65009	26.98	ADR	38.90	-21.50	0	45.23	54.00	-7.72	-	-	-	49	100	H	
			* 11.65001	42.96	PK-U	38.90	-21.50	0	60.26	-	-	74.00	-13.74	-	-	153	100	V
			* 11.6504	30.77	ADR	38.90	-21.50	0	48.17	54.00	-5.83	-	-	-	153	100	V	

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	ANT1	* 11.49026	42.01	PK-U	38.70	-21.40	0	59.31	-	-	74.00	-14.69	-	-	288	400	H
			* 11.48994	28.74	ADR	38.70	-21.40	0	46.04	54.00	-7.96	-	-	-	288	400	H	
			* 11.4901	47.82	PK-U	38.70	-21.40	0	65.12	-	-	74.00	-8.88	-	-	165	281	V
			* 11.49004	34.45	ADR	38.70	-21.40	0	51.75	54.00	-2.25	-	-	-	165	281	V	
	5785	ANT1	* 11.57033	37.32	PK-U	38.80	-21.60	0	54.52	-	-	74.00	-19.48	-	-	185	201	H
			* 11.56991	24.42	ADR	38.80	-21.70	0	41.52	54.00	-12.48	-	-	-	185	201	H	
			* 11.5704	44.87	PK-U	38.80	-21.60	0	62.07	-	-	74.00	-11.93	-	-	160	221	V
			* 11.56992	32.55	ADR	38.80	-21.70	0	49.65	54.00	-4.35	-	-	-	160	221	V	
	5825	ANT1	* 11.65	35.69	PK-U	38.90	-21.50	0	53.09	-	-	74.00	-20.91	-	-	341	110	H
			* 11.64988	25.00	ADR	38.80	-21.50	0	42.30	54.00	-11.70	-	-	-	341	110	H	
			* 11.65076	43.56	PK-U	38.90	-21.50	0	60.96	-	-	74.00	-13.04	-	-	235	220	V
			* 11.65002	30.95	ADR	38.90	-21.50	0	48.35	54.00	-5.65	-	-	-	235	220	V	

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	ANT2	* 11.57045	40.06	PK-U	38.80	-21.60	0	57.26	-	-	74.00	-16.74	-	-	223	206	H
			* 11.57006	27.35	ADR	38.80	-21.60	0	44.55	54.00	-9.45	-	-	-	223	206	H	
			* 11.5701	41.83	PK-U	38.80	-21.60	0	60.26	-	-	74.00	-14.97	-	-	178	101	V
			* 11.56998	29.03	ADR	38.80	-21.60	0	46.23	54.00	-7.77	-	-	-	178	101	V	
	5785	ANT2	* 11.57042	39.74	PK-U	38.80	-21.60	0	56.94	-	-	74.00	-17.06	-	-	46	400	H
			* 11.57002	27.67	ADR	38.80	-21.60	0	44.87	54.00	-9.13	-	-	-	46	400	H	
			* 11.57032	45.03	PK-U	38.80	-21.60	0	62.23	-	-	74.00	-11.77	-	-	155	242	V
			* 11.56988	32.04	ADR	38.80	-21.70	0	49.14	54.00	-4.86	-	-	-	155	242	V	
	5825	ANT2	* 11.65	38.36	PK-U	38.90	-21.50	0	55.76	-	-	74.00	-18.24	-	-	300	261	H
			* 11.64998	26.73	ADR	38.80	-21.50	0	44.03	54.00	-9.97	-	-	-	300	261	H	
			* 11.64998	42.74	PK-U	38.80	-21.50	0	60.04	-	-	74.00	-13.96	-	-	172	245	V
			* 11.6499	30.37	ADR	38.80	-21.50	0	47.67	54.00	-6.33	-	-	-	172	245	V	

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	ANT3	* 11.49037	42.67	PK-U	38.70	-21.40	0	59.97	-	-	74.00	-14.03	-	-	299	100	H
			* 11.48985	27.66	ADR	38.70	-21.40	0	44.96	54.00	-9.04	-	-	-	299	100	H	
			* 11.49028	44.51	PK-U	38.70	-21.40	0	61.81	-	-	74.00	-12.19	-	-	255	218	V
			* 11.49021	29.13	ADR	38.70	-21.40	0	46.43	54.00	-7.57	-	-	-	255	218	V	
	5785	ANT3	* 11.57047	41.78	PK-U	38.80	-21.60	0	58.98	-	-	74.00	-15.02	-	-	192	168	H
			* 11.56959	25.90	ADR	38.80	-21.70	0	43.00	54.00	-11.00	-	-	-	192	168	H	
			* 11.57018	45.03	PK-U	38.80	-21.60	0	62.23	-	-	74.00	-11.77	-	-	160	117	V
			* 11.5701	29.86	ADR	38.80	-21.60	0	47.06	54.00	-6.94	-	-	-	160	117	V	
	5825	ANT3	* 11.6501	38.78	PK-U	38.90	-21.50	0	56.18	-	-	74.00	-17.82	-	-	205	101	H
			* 11.6498	25.52	ADR	38.80	-21.50	0	42.82	54.00	-11.18	-	-	-	205	101	H	
			* 11.6504	40.98	PK-U	38.90	-21.50	0	58.38	-	-	74.00	-15.62	-	-	154	103	V
			* 11.65006	26.76	ADR	38.90	-21.50	0	44.16	54.00	-9.84	-	-	-	154	103	V	

Mode	Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
802.11ax(HE20)	5745	ANT4	* 11.49027	40.68	PK-U	38.70	-21.40	0	57.98	-	-	74.00	-16.02	-	-	127	382	H
			* 11.49001	29.08	ADR	38.70	-21.40	0	46.38	54.00	-7.62	-	-	-	127	382	H	
			* 11.49045	45.36	PK-U	38.70	-21.40	0	62.66	-	-	74.00	-11.34	-	-	213	364	V
			* 11.48977	33.53	ADR	38.70	-21.40	0	50.83	54.00	-3.17	-	-	-	213	364	V	
	5785	ANT4	* 11.56972	35.64	PK-U	38.80	-21.70	0	52.74	-	-	74.00	-21.26	-	-	43	398	H
			* 11.56998	25.72	ADR	38.80	-21.60	0	42.92	54.00	-11.08	-	-	-	43	398	H	
			* 11.57022	42.52	PK-U	38.80	-21.60	0	59.72	-	-	74.00	-14.28	-	-	208	390	V
			* 11.5702	30.21	ADR	38.80	-21.60	0	47.41	54.00	-6.59	-	-	-	208	390	V	
	5825	ANT4	* 11.64692	34.50	PK-U	38.80	-21.50	0	51.80	-	-	74.00	-22.20	-	-	43	390	H
			* 11.64998	24.54	ADR	38.80	-21.50	0	41.84	54.00	-12.16	-	-	-	43	390	H	
			* 11.6498	35.74	PK-U	38.80	-21.50	0	53.04	-	-	74.00	-20.96	-	-	342	373	V
			* 11.65	27.29	ADR	38.90	-21.50	0	44.69	54.00	-9.31	-	-	-	342	373	V	

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

11.2. Spurious Emissions for Simultaneous Transmission

11.2.1. Worst test case RSDB condition

Case 1 (2.4GHz WLAN SISO & 5GHz WLAN MIMO)

Case 1	2.4 GHz WLAN Antenna ANT2	5GHz WLAN Antenna ALL
Mode	802.11b	802.11a
Channel	11	100
Frequency[MHz]	2462	5600
Data Rate	1Mbps	6Mbps

Case 2 (2.4GHz WLAN MIMO & 5GHz WLAN MIMO)

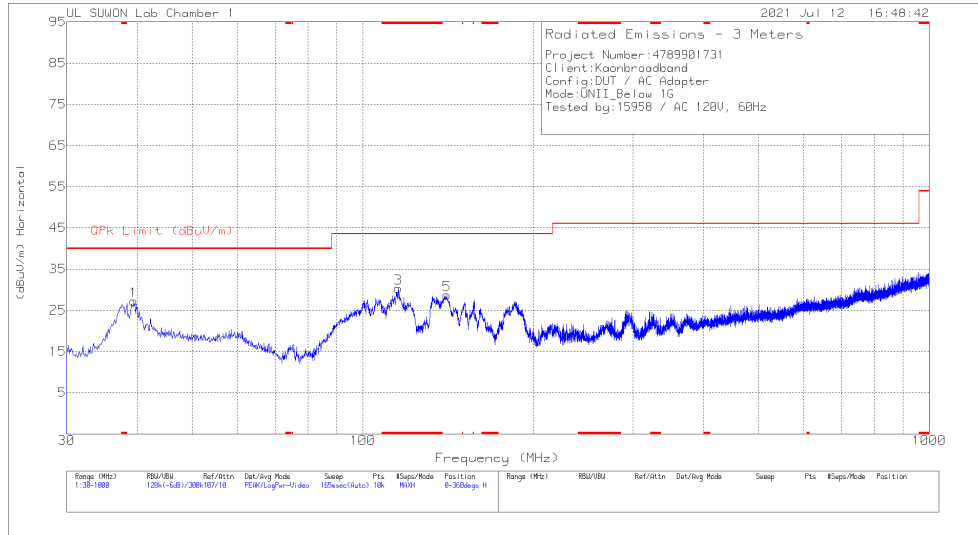
Case 1	2.4 GHz WLAN Antenna ALL	5GHz WLAN Antenna ALL
Mode	802.11b	802.11a
Channel	1	100
Frequency[MHz]	2412	5600
Data Rate	1Mbps	6Mbps

11.2.2. Test Results

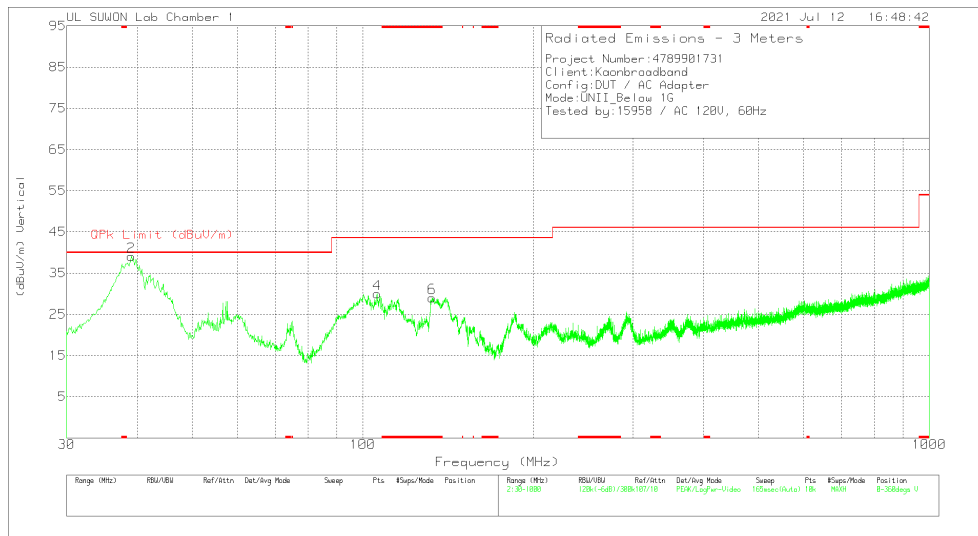
Please refer to the FCC Report UNII 802.11a_n_ac WLAN (Report No.: 4789901731-FR3)

12. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (802.11ax HE40 MIMO/5670 MHz/SU mode, HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (802.11ax HE40 MIMO/5670 MHz/SU mode, VERTICAL)



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	39.409	39.87	Pk	18.5	-31.1	27.27	40	-12.73	0-360	300	H
3	* 115.554	44.2	Pk	16.2	-30.1	30.3	43.52	-13.22	0-360	300	H
5	140.677	44.75	Pk	13.8	-29.8	28.75	43.52	-14.77	0-360	200	H
2	39.021	51.76	Pk	18.4	-31.1	39.06	40	-.94	0-360	100	V
2	39.021	47.18	Qp	18.4	-31.1	34.48	40	-5.52	246	100	V
4	105.951	42.51	Pk	17.7	-30.2	30.01	43.52	-13.51	0-360	100	V
6	* 132.626	44.84	Pk	14.1	-29.9	29.04	43.52	-14.48	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

13. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
IC RSS-GEN Clause 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

Note.

Please refer to the FCC Report UNII 802.11a_n_ac WLAN (Report No.: 4789901731-FR3)

END OF TEST REPORT