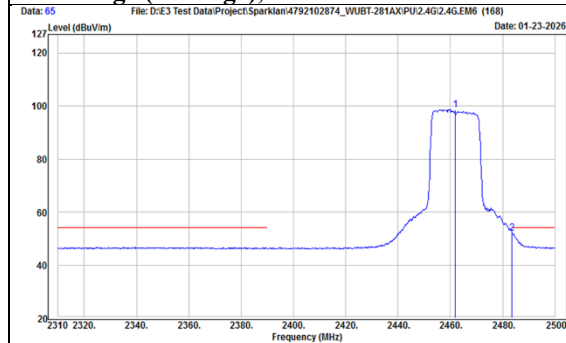


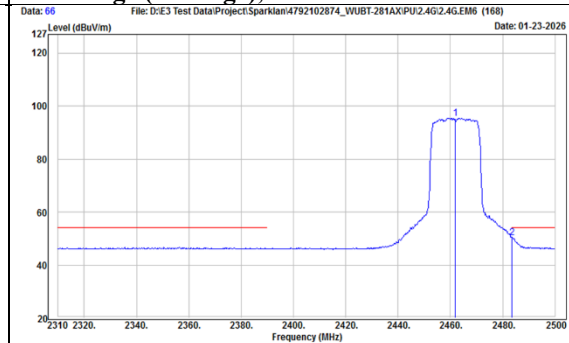
Mode	802.11ac(VHT20)	Channel	11
------	-----------------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	89.99	17.62	107.61	N/A	N/A	PK
	@	2462	81.07	17.62	98.69	N/A	N/A	AVG
		2483.66	34.43	17.65	52.08	54	-1.92	AVG
		2484.99	49.86	17.65	67.51	74	-6.49	PK
Vertical	@	2462	87.24	17.62	104.86	N/A	N/A	PK
	@	2462	77.74	17.62	95.36	N/A	N/A	AVG
		2483.66	32.7	17.65	50.35	54	-3.65	AVG
		2483.85	43.57	17.65	61.22	74	-12.78	PK

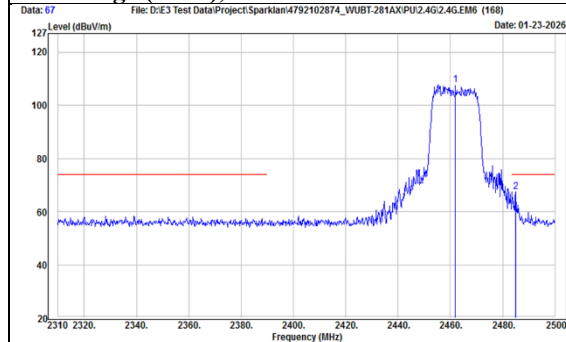
TX, 802.11ac(VHT20) (Ch 11)
Band Edge (Average), Horizontal



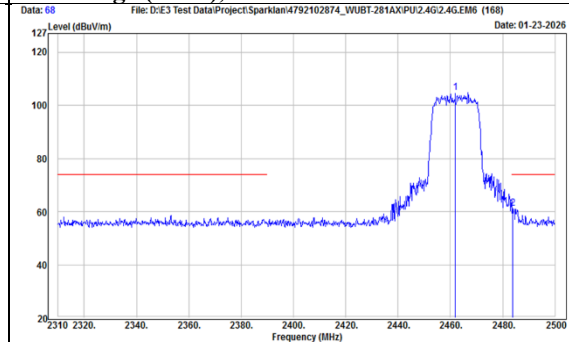
TX, 802.11ac(VHT20) (Ch 11)
Band Edge (Average), Vertical



TX, 802.11ac(VHT20) (Ch 11)
Band Edge (Peak), Horizontal



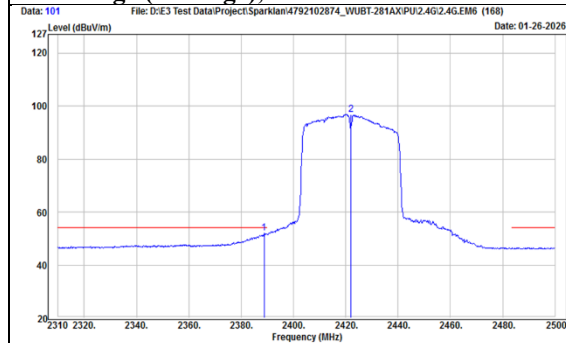
TX, 802.11ac(VHT20) (Ch 11)
Band Edge (Peak), Vertical



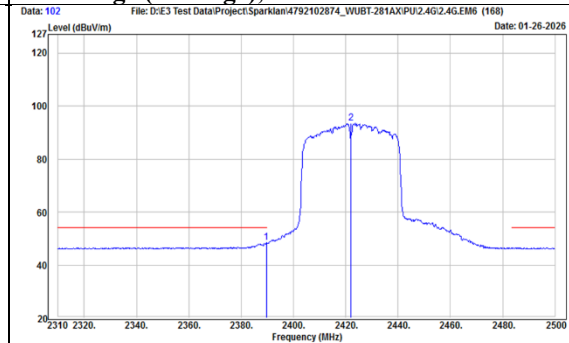
Mode	802.11ac(VHT40)	Channel	3
------	-----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2388.85	34.11	17.83	51.94	54	-2.06	AVG
		2389.04	45.86	17.83	63.69	74	-10.31	PK
	@	2422	86.61	17.71	104.32	N/A	N/A	PK
	@	2422	79.17	17.71	96.88	N/A	N/A	AVG
Vertical		2389.61	30.53	17.83	48.36	54	-5.64	AVG
		2389.99	41.8	17.83	59.63	74	-14.37	PK
	@	2422	83.29	17.71	101	N/A	N/A	PK
	@	2422	75.86	17.71	93.57	N/A	N/A	AVG

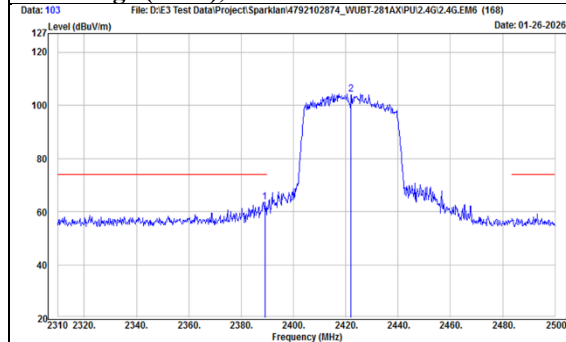
TX, 802.11ac(VHT40) (Ch 3)
Band Edge (Average), Horizontal



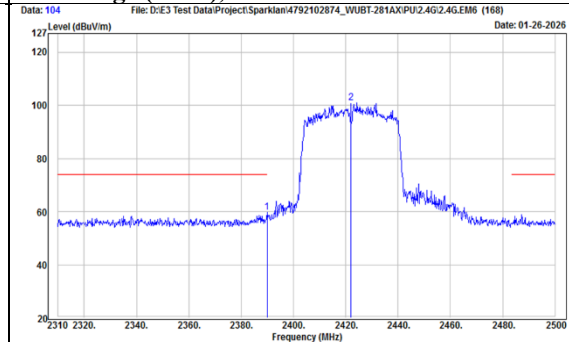
TX, 802.11ac(VHT40) (Ch 3)
Band Edge (Average), Vertical



TX, 802.11ac(VHT40) (Ch 3)
Band Edge (Peak), Horizontal



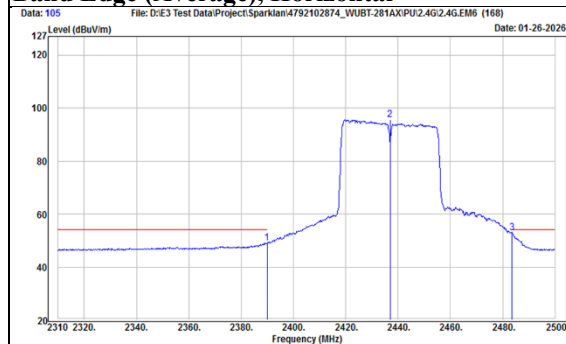
TX, 802.11ac(VHT40) (Ch 3)
Band Edge (Peak), Vertical



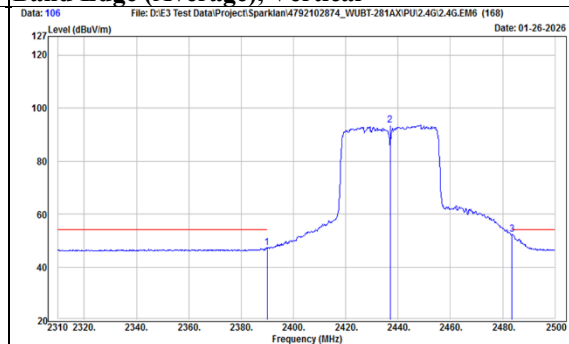
Mode	802.11ac(VHT40)	Channel	6
------	-----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2388.85	44.21	17.83	62.04	74	-11.96	PK
		2389.99	31.31	17.83	49.14	54	-4.86	AVG
	@	2437	86.31	17.65	103.96	N/A	N/A	PK
	@	2437	77.8	17.65	95.45	N/A	N/A	AVG
		2483.66	35.36	17.65	53.01	54	-0.99	AVG
		2484.23	46.37	17.65	64.02	74	-9.98	PK
Vertical		2328.24	40.54	17.91	58.45	74	-15.55	PK
		2389.99	29.39	17.83	47.22	54	-6.78	AVG
	@	2437	84.53	17.65	102.18	N/A	N/A	PK
	@	2437	75.72	17.65	93.37	N/A	N/A	AVG
		2483.66	34.77	17.65	52.42	54	-1.58	AVG
		2486.32	44.16	17.65	61.81	74	-12.19	PK

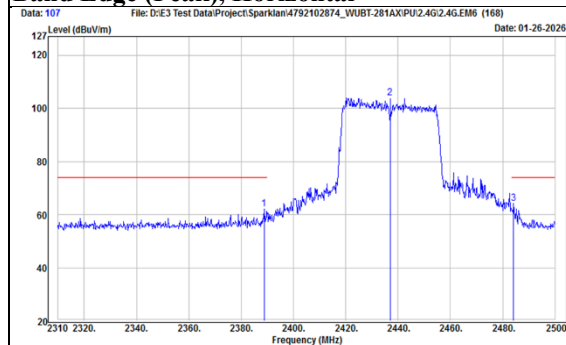
TX, 802.11ac(VHT40) (Ch 6)
Band Edge (Average), Horizontal



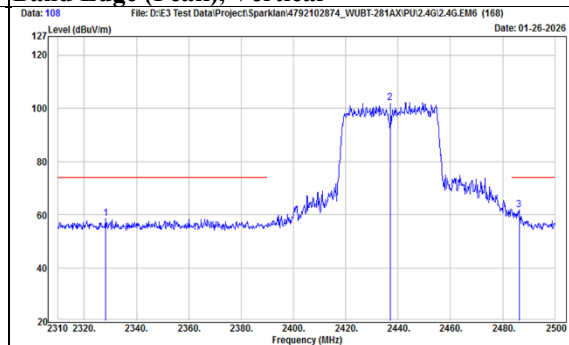
TX, 802.11ac(VHT40) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11ac(VHT40) (Ch 6)
Band Edge (Peak), Horizontal



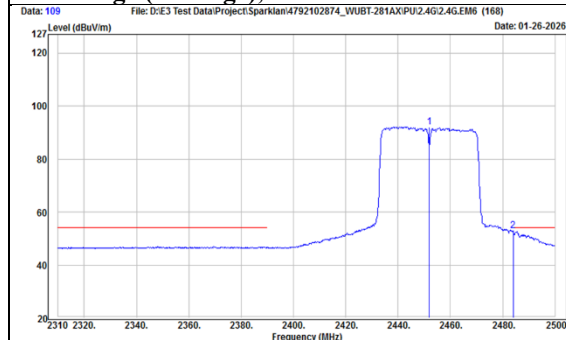
TX, 802.11ac(VHT40) (Ch 6)
Band Edge (Peak), Vertical



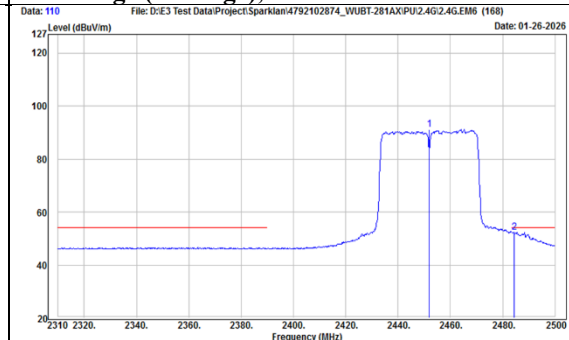
Mode	802.11ac(VHT40)	Channel	9
------	-----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	83.88	17.6	101.48	N/A	N/A	PK
	@	2452	74.53	17.6	92.13	N/A	N/A	AVG
		2484.04	46.37	17.65	64.02	74	-9.98	PK
		2484.04	35.29	17.65	52.94	54	-1.06	AVG
Vertical	@	2452	82.33	17.6	99.93	N/A	N/A	PK
	@	2452	73.45	17.6	91.05	N/A	N/A	AVG
		2484.42	34.78	17.65	52.43	54	-1.57	AVG
		2485.37	45.84	17.65	63.49	74	-10.51	PK

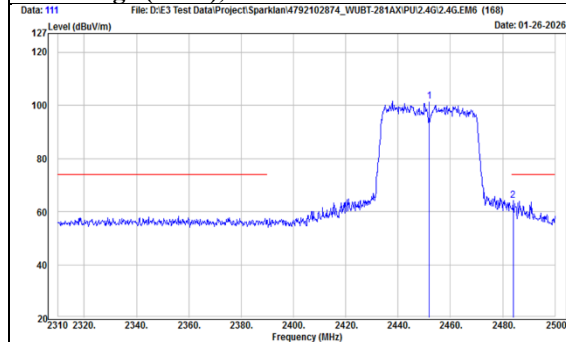
TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Average), Horizontal



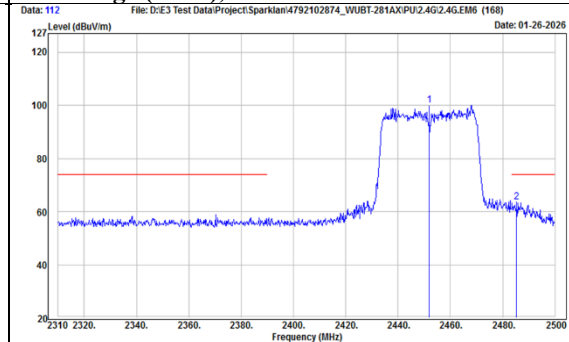
TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Average), Vertical



TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Peak), Horizontal



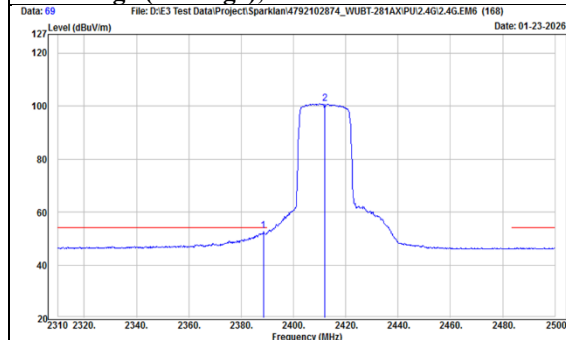
TX, 802.11ac(VHT40) (Ch 9)
Band Edge (Peak), Vertical



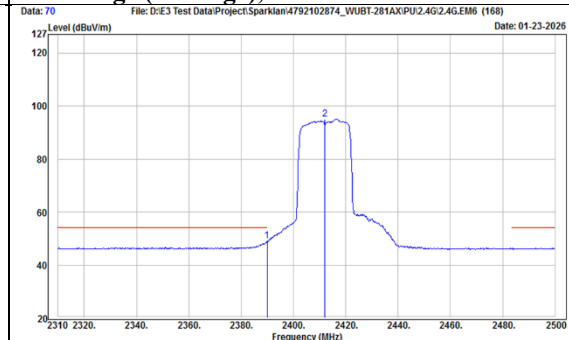
Mode	802.11ax(HE20)	Channel	1
------	----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2386.76	47.49	17.84	65.33	74	-8.67	PK
		2388.47	34.92	17.84	52.76	54	-1.24	AVG
	@	2412	92.7	17.75	110.45	N/A	N/A	PK
	@	2412	83.12	17.75	100.87	N/A	N/A	AVG
Vertical		2389.8	44.2	17.83	62.03	74	-11.97	PK
		2389.99	31.11	17.83	48.94	54	-5.06	AVG
	@	2412	86.29	17.75	104.04	N/A	N/A	PK
	@	2412	77.24	17.75	94.99	N/A	N/A	AVG

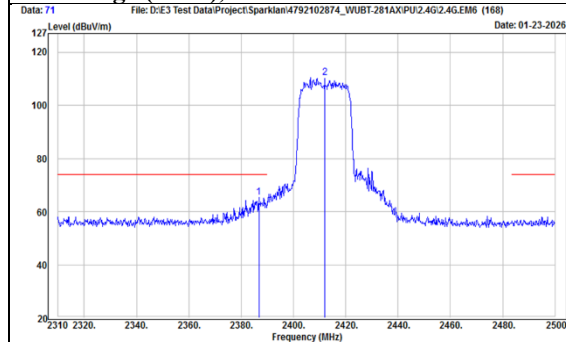
TX, 802.11ax(HE20) (Ch 1)
Band Edge (Average), Horizontal



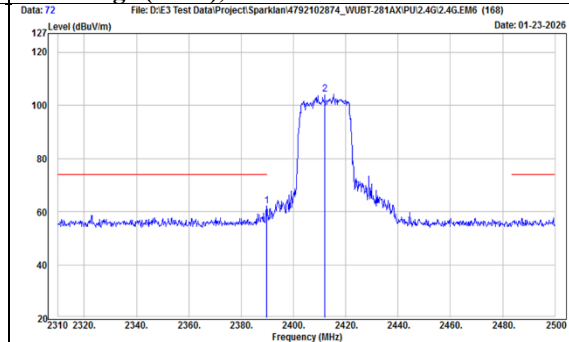
TX, 802.11ax(HE20) (Ch 1)
Band Edge (Average), Vertical



TX, 802.11ax(HE20) (Ch 1)
Band Edge (Peak), Horizontal



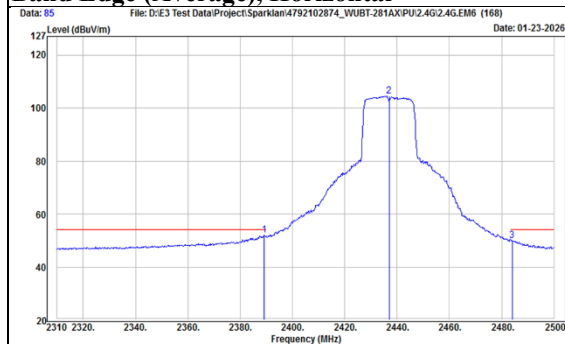
TX, 802.11ax(HE20) (Ch 1)
Band Edge (Peak), Vertical



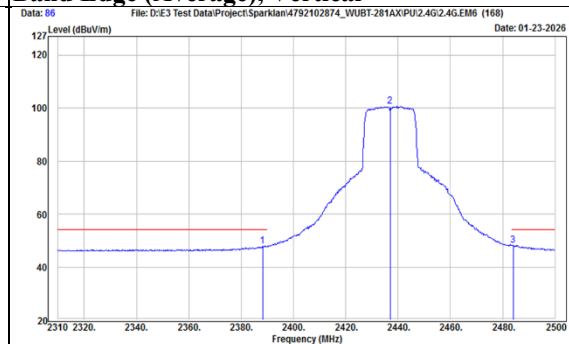
Mode	802.11ax(HE20)	Channel	6
------	----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2384.48	45.5	17.84	63.34	74	-10.66	PK
		2389.23	34.14	17.83	51.97	54	-2.03	AVG
	@	2437	96.09	17.65	113.74	N/A	N/A	PK
	@	2437	86.74	17.65	104.39	N/A	N/A	AVG
		2483.66	43.03	17.65	60.68	74	-13.32	PK
		2484.04	32.31	17.65	49.96	54	-4.04	AVG
Vertical		2359.02	40.64	17.89	58.53	74	-15.47	PK
		2388.28	30.03	17.84	47.87	54	-6.13	AVG
	@	2437	91.68	17.65	109.33	N/A	N/A	PK
	@	2437	82.85	17.65	100.5	N/A	N/A	AVG
		2484.04	30.58	17.65	48.23	54	-5.77	AVG
		2485.18	41.16	17.65	58.81	74	-15.19	PK

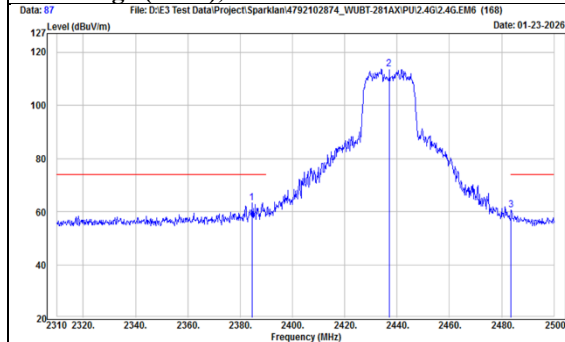
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Average), Horizontal



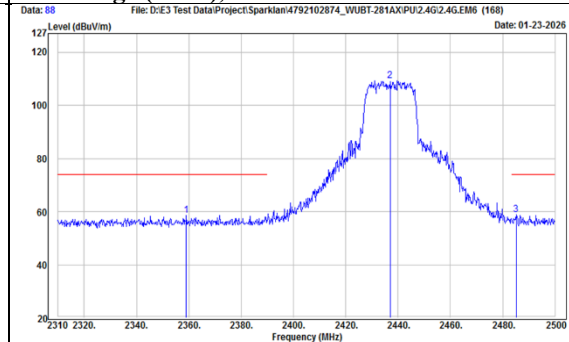
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11ax(HE20) (Ch 6)
Band Edge (Peak), Horizontal



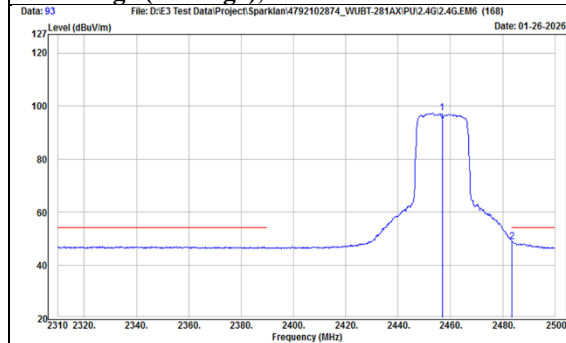
TX, 802.11ax(HE20) (Ch 6)
Band Edge (Peak), Vertical



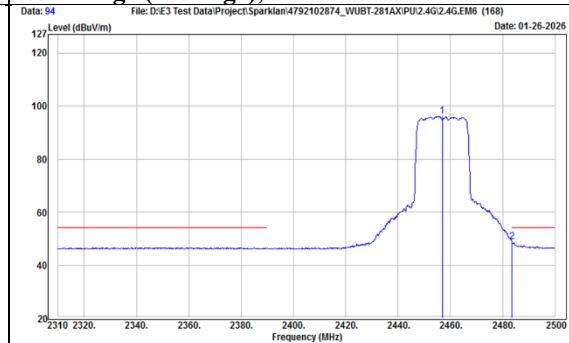
Mode	802.11ax(HE20)	Channel	10
------	----------------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2457	88.68	17.61	106.29	N/A	N/A	PK
	@	2457	79.78	17.61	97.39	N/A	N/A	AVG
		2483.66	31.21	17.65	48.86	54	-5.14	AVG
		2483.85	42.26	17.65	59.91	74	-14.09	PK
Vertical	@	2457	88.45	17.61	106.06	N/A	N/A	PK
	@	2457	78.45	17.61	96.06	N/A	N/A	AVG
		2483.66	30.95	17.65	48.6	54	-5.4	AVG
		2483.85	43.71	17.65	61.36	74	-12.64	PK

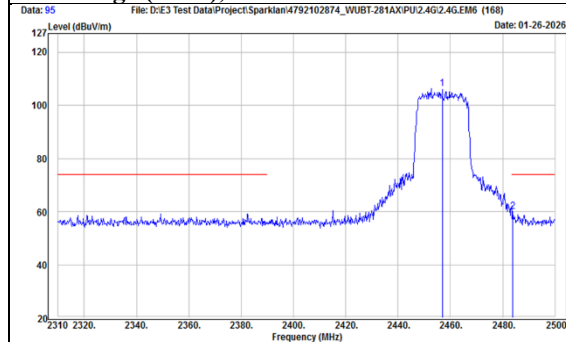
TX, 802.11ax(HE20) (Ch 10)
Band Edge (Average), Horizontal



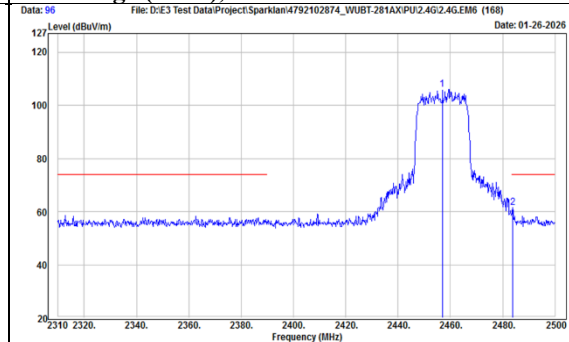
TX, 802.11ax(HE20) (Ch 10)
Band Edge (Average), Vertical



TX, 802.11ax(HE20) (Ch 10)
Band Edge (Peak), Horizontal



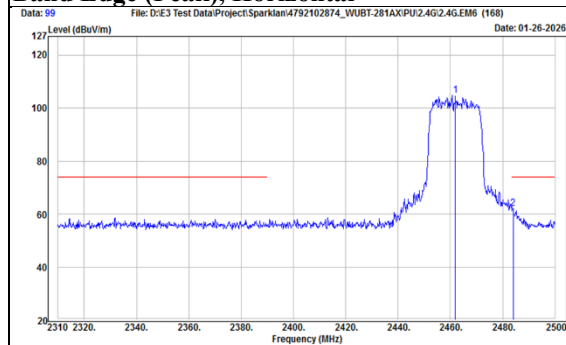
TX, 802.11ax(HE20) (Ch 10)
Band Edge (Peak), Vertical



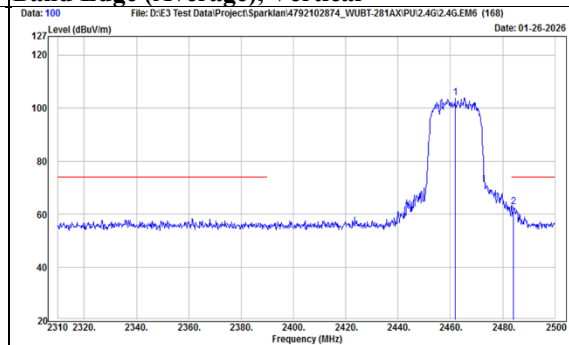
Mode	802.11ax(HE20)	Channel	11
------	----------------	---------	----

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	87.25	17.62	104.87	N/A	N/A	PK
		2484.04	44.32	17.65	61.97	74	-12.03	PK
Vertical	@	2462	86.29	17.62	103.91	N/A	N/A	PK
	@	2462	78.14	17.62	95.76	N/A	N/A	AVG
	@	2462	78.23	17.62	95.85	N/A	N/A	AVG
		2483.66	34.8	17.65	52.45	54	-1.55	AVG
		2483.85	35.37	17.65	53.02	54	-0.98	AVG
		2484.23	45.17	17.65	62.82	74	-11.18	PK

TX, 802.11ax(HE20) (Ch 11)
Band Edge (Peak), Horizontal



TX, 802.11ax(HE20) (Ch 11)
Band Edge (Average), Vertical

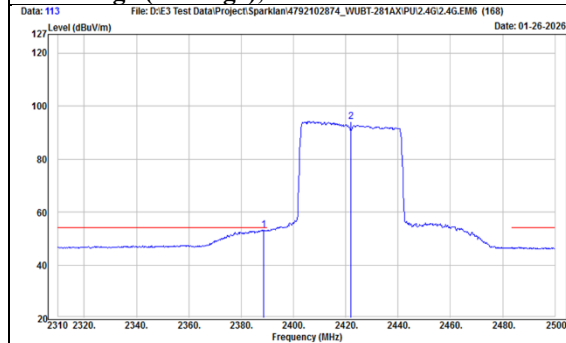


TX, 802.11ax(HE20) (Ch 11)
Band Edge (Peak), Vertical

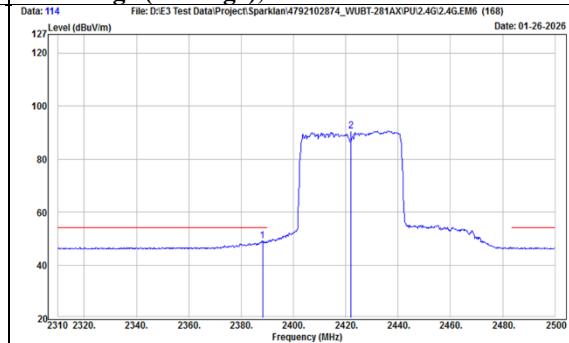
Mode	802.11ax(HE40)	Channel	3
------	----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2388.66	35.43	17.84	53.27	54	-0.73	AVG
		2388.85	53.87	17.83	71.7	74	-2.3	PK
	@	2422	86.15	17.71	103.86	N/A	N/A	PK
	@	2422	76.44	17.71	94.15	N/A	N/A	AVG
Vertical		2388.28	31.19	17.84	49.03	54	-4.97	AVG
		2388.85	45.73	17.83	63.56	74	-10.44	PK
	@	2422	81.33	17.71	99.04	N/A	N/A	PK
	@	2422	72.92	17.71	90.63	N/A	N/A	AVG

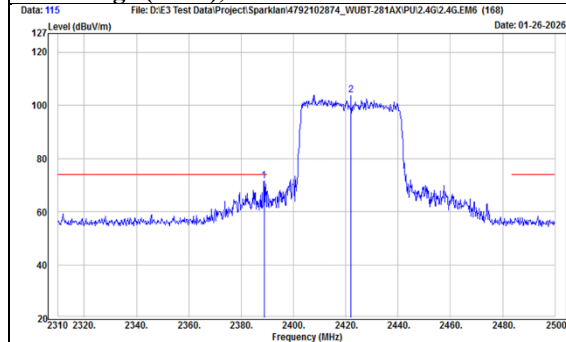
TX, 802.11ax(HE40) (Ch 3)
Band Edge (Average), Horizontal



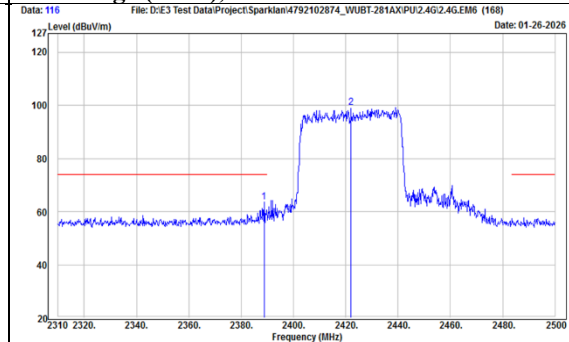
TX, 802.11ax(HE40) (Ch 3)
Band Edge (Average), Vertical



TX, 802.11ax(HE40) (Ch 3)
Band Edge (Peak), Horizontal



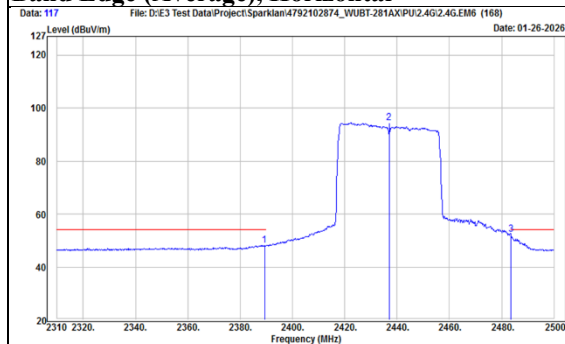
TX, 802.11ax(HE40) (Ch 3)
Band Edge (Peak), Vertical



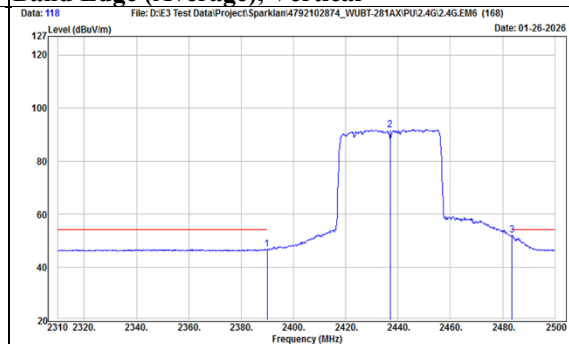
Mode	802.11ax(HE40)	Channel	6
------	----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.42	43.02	17.83	60.85	74	-13.15	PK
		2389.42	30.3	17.83	48.13	54	-5.87	AVG
	@	2437	85.45	17.65	103.1	N/A	N/A	PK
	@	2437	76.65	17.65	94.3	N/A	N/A	AVG
		2483.66	45.81	17.65	63.46	74	-10.54	PK
		2483.66	34.75	17.65	52.4	54	-1.6	AVG
Vertical		2382.39	40.89	17.85	58.74	74	-15.26	PK
		2389.99	28.81	17.83	46.64	54	-7.36	AVG
	@	2437	83.88	17.65	101.53	N/A	N/A	PK
	@	2437	74.22	17.65	91.87	N/A	N/A	AVG
		2483.66	34.43	17.65	52.08	54	-1.92	AVG
		2484.04	46.42	17.65	64.07	74	-9.93	PK

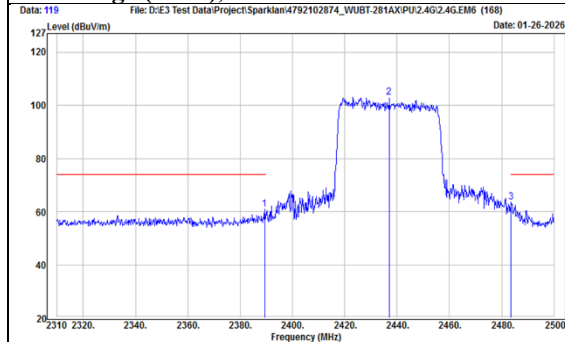
TX, 802.11ax(HE40) (Ch 6)
Band Edge (Average), Horizontal



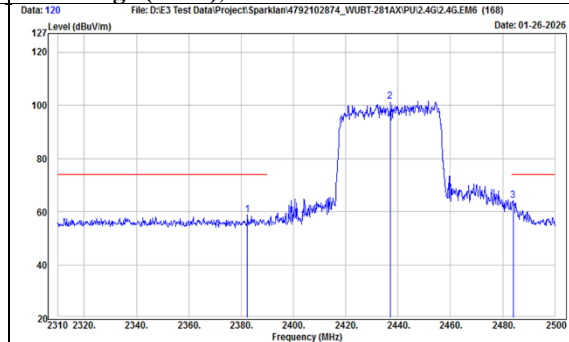
TX, 802.11ax(HE40) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11ax(HE40) (Ch 6)
Band Edge (Peak), Horizontal



TX, 802.11ax(HE40) (Ch 6)
Band Edge (Peak), Vertical



Mode	802.11ax(HE40)	Channel	9
------	----------------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	83.59	17.6	101.19	N/A	N/A	PK
	@	2452	73.9	17.6	91.5	N/A	N/A	AVG
	@	2452	74.38	17.6	91.98	N/A	N/A	AVG
		2483.66	33.97	17.65	51.62	54	-2.38	AVG
		2484.61	35.08	17.65	52.73	54	-1.27	AVG
		2485.18	47.37	17.65	65.02	74	-8.98	PK
Vertical	@	2452	82.76	17.6	100.36	N/A	N/A	PK
	@	2452	72.72	17.6	90.32	N/A	N/A	AVG
	@	2452	73.14	17.6	90.74	N/A	N/A	AVG
		2483.85	33.93	17.65	51.58	54	-2.42	AVG
		2484.42	34.82	17.65	52.47	54	-1.53	AVG
		2490.69	48.53	17.66	66.19	74	-7.81	PK

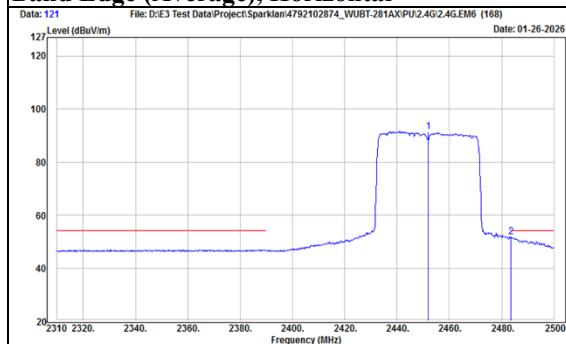
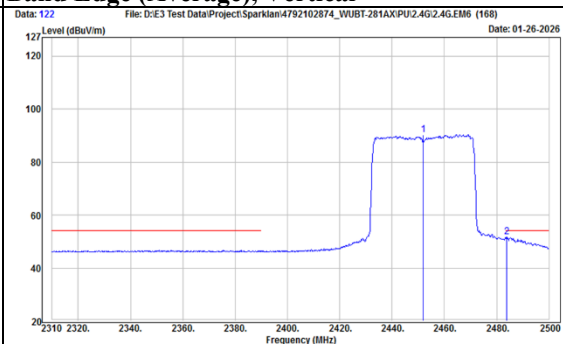
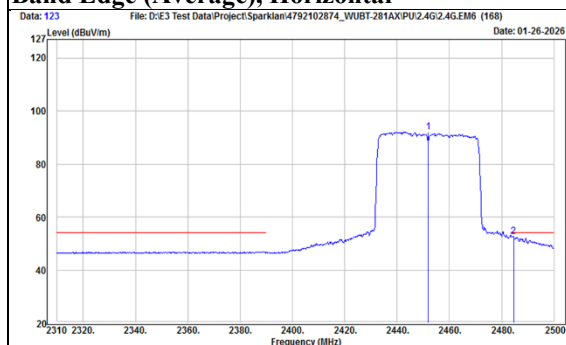
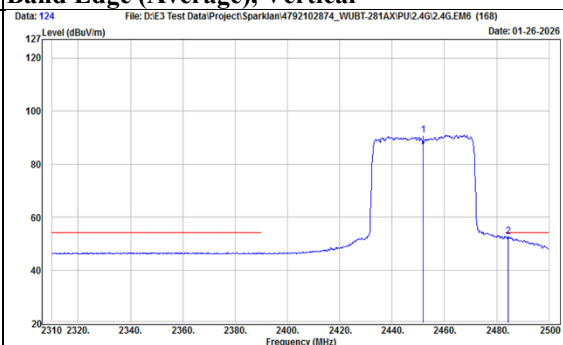
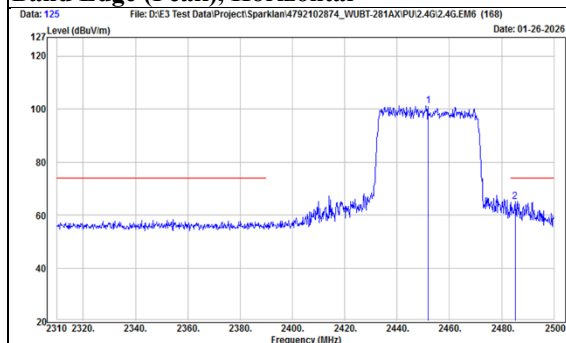
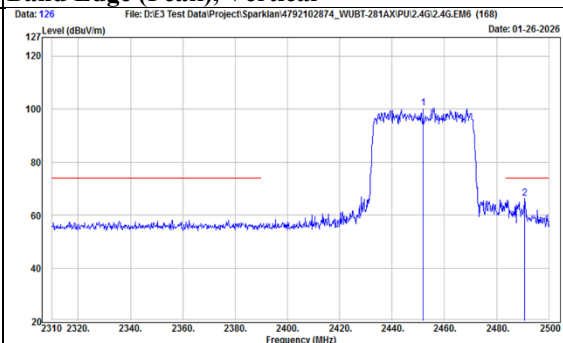
Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

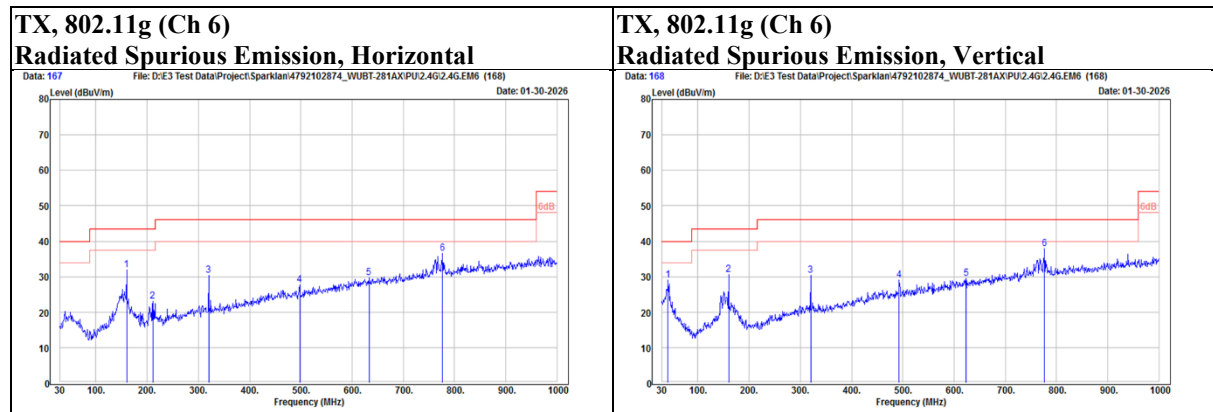
Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

TX, 802.11ax(HE40) (Ch 9)
Band Edge (Average), Horizontal

TX, 802.11ax(HE40) (Ch 9)
Band Edge (Average), Vertical

TX, 802.11ax(HE40) (Ch 9)
Band Edge (Average), Horizontal

TX, 802.11ax(HE40) (Ch 9)
Band Edge (Average), Vertical

TX, 802.11ax(HE40) (Ch 9)
Band Edge (Peak), Horizontal

TX, 802.11ax(HE40) (Ch 9)
Band Edge (Peak), Vertical


Below 1 GHz

Mode	802.11g	Channel	6
------	---------	---------	---

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		159.98	43.27	-11.38	31.89	43.5	-11.61	PK
		211.39	37.29	-14.23	23.06	43.5	-20.44	PK
		320.03	39.94	-9.49	30.45	46	-15.55	PK
		497.54	32.6	-4.86	27.74	46	-18.26	PK
		633.34	31.15	-1.49	29.66	46	-16.34	PK
		776.9	35.24	1.25	36.49	46	-9.51	PK
Vertical		41.64	41.5	-12.43	29.07	40	-10.93	PK
		159.98	41.87	-11.38	30.49	43.5	-13.01	PK
		320.03	39.88	-9.49	30.39	46	-15.61	PK
		492.69	33.94	-4.97	28.97	46	-17.03	PK
		623.64	31.25	-1.71	29.54	46	-16.46	PK
		776.9	36.58	1.25	37.83	46	-8.17	PK



Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

9.6. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
3. Test data of Result value (dB μ V) = Reading value (dB μ V) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dB μ V) - Limit value (dB μ V).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

Underwriters Laboratories Taiwan Co., Ltd.

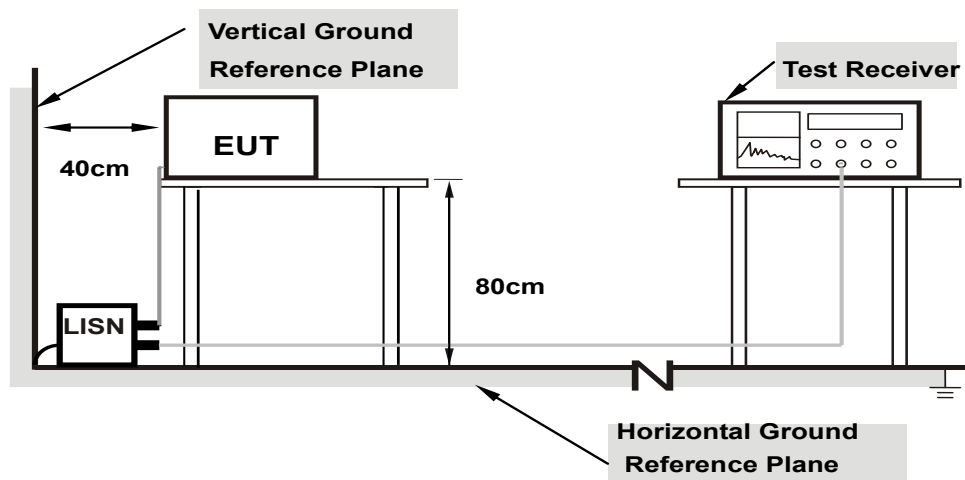
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

Test Setup

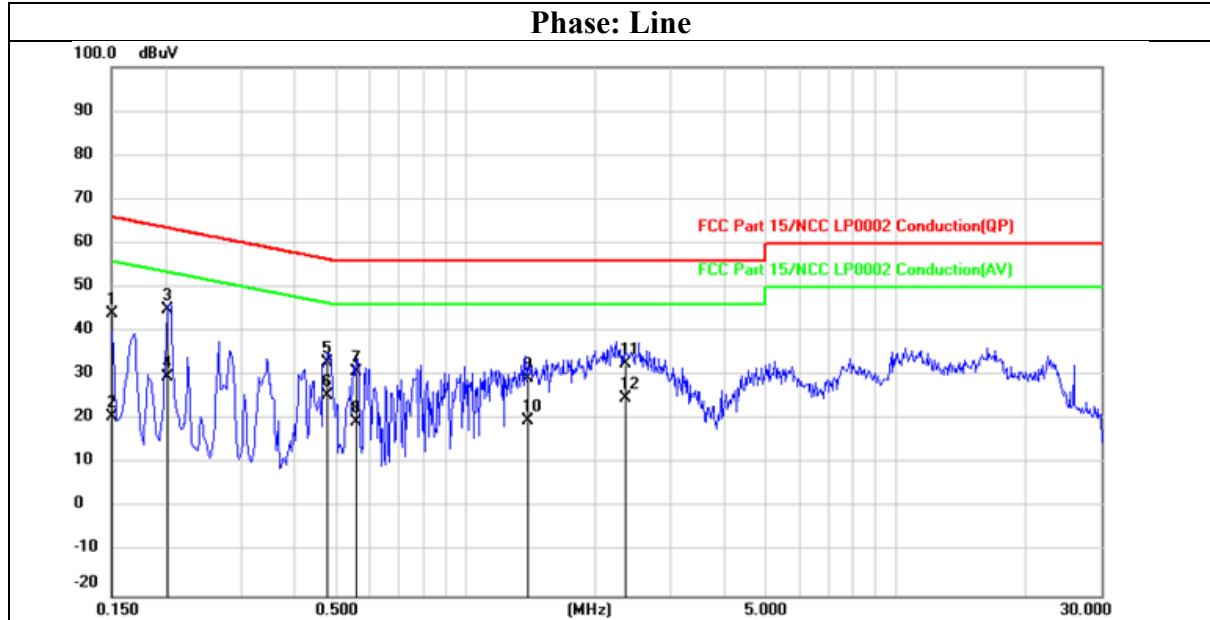


Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

Test Data

Mode	11g_TX2437	Channel	6
------	------------	---------	---



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1502	34.03	9.95	43.98	65.99	-22.01	QP
2	0.1502	10.79	9.95	20.74	55.99	-35.25	AVG
3	0.2022	35.08	9.95	45.03	63.52	-18.49	QP
4	0.2022	19.76	9.95	29.71	53.52	-23.81	AVG
5	0.4778	22.96	9.98	32.94	56.38	-23.44	QP
6	0.4778	15.38	9.98	25.36	46.38	-21.02	AVG
7	0.5578	20.75	9.98	30.73	56.00	-25.27	QP
8	0.5578	9.61	9.98	19.59	46.00	-26.41	AVG
9	1.3883	19.25	10.05	29.30	56.00	-26.70	QP
10	1.3883	9.81	10.05	19.86	46.00	-26.14	AVG
11	2.3450	22.51	10.11	32.62	56.00	-23.38	QP
12	2.3450	14.66	10.11	24.77	46.00	-21.23	AVG

Underwriters Laboratories Taiwan Co., Ltd.

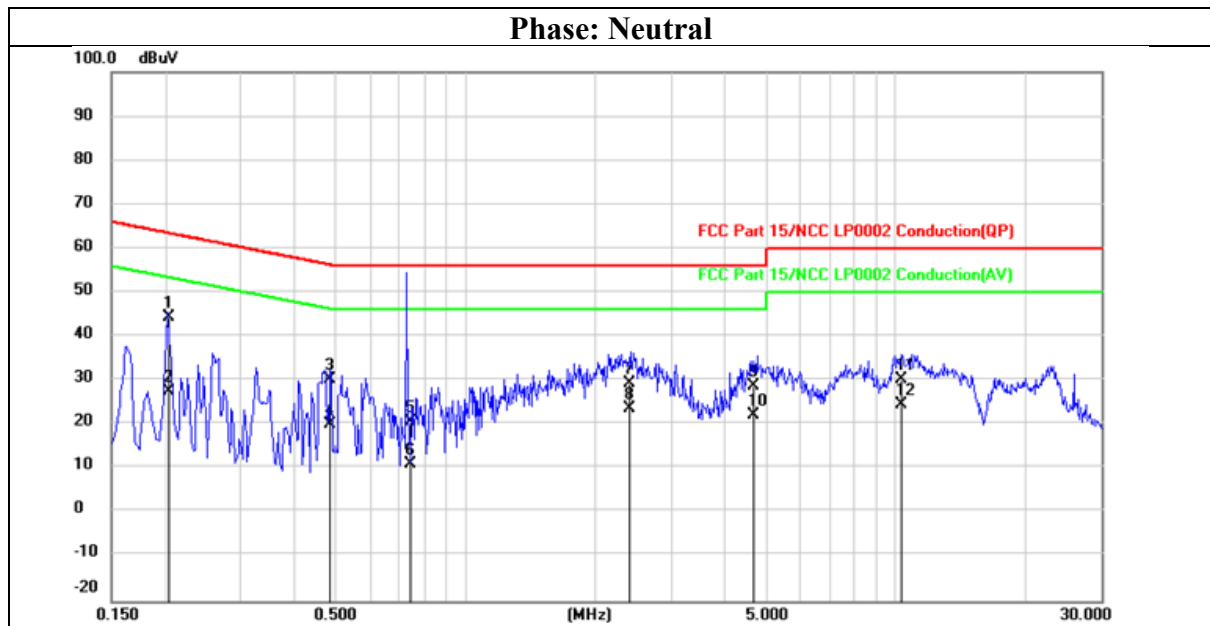
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

Mode	11g_TX2437	Channel	6
------	------------	---------	---



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2039	34.36	9.93	44.29	63.45	-19.16	QP
2	0.2039	17.73	9.93	27.66	53.45	-25.79	AVG
3	0.4830	20.36	9.94	30.30	56.29	-25.99	QP
4	0.4830	10.06	9.94	20.00	46.29	-26.29	AVG
5	0.7460	10.72	9.96	20.68	56.00	-35.32	QP
6	0.7460	1.05	9.96	11.01	46.00	-34.99	AVG
7	2.3964	19.47	10.01	29.48	56.00	-26.52	QP
8	2.3964	13.51	10.01	23.52	46.00	-22.48	AVG
9	4.6891	18.55	10.07	28.62	56.00	-27.38	QP
10	4.6891	12.10	10.07	22.17	46.00	-23.83	AVG
11	10.3128	19.93	10.23	30.16	60.00	-29.84	QP
12	10.3128	14.31	10.23	24.54	50.00	-25.46	AVG

END OF REPORT

Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0