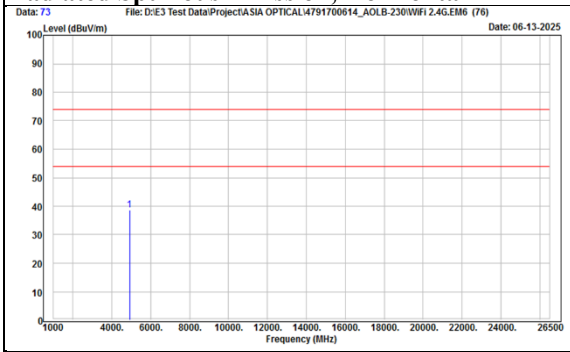
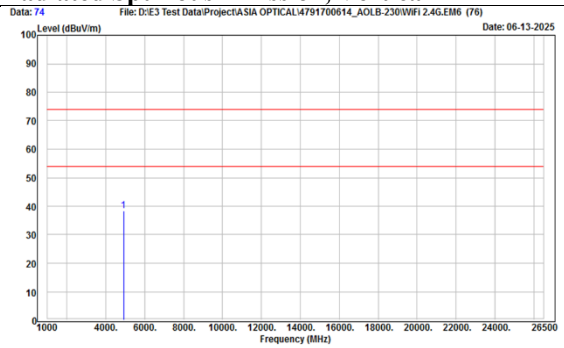
Mode	802.11g	Channel	11

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	74.59	19.19	93.78	N/A	N/A	PK
	@	2462	66.91	19.19	86.1	N/A	N/A	AVG
		2483.66	33.96	19.19	53.15	54	-0.85	AVG
		2484.61	42.41	19.19	61.6	74	-12.4	PK
	*	4924	35.8	2.72	38.52	74	-35.48	PK
Vertical	@	2462	71.99	19.19	91.18	N/A	N/A	PK
	@	2462	63.56	19.19	82.75	N/A	N/A	AVG
		2483.66	30.9	19.19	50.09	54	-3.91	AVG
		2484.23	40.91	19.19	60.1	74	-13.9	PK
	*	4924	35.6	2.72	38.32	74	-35.68	PK

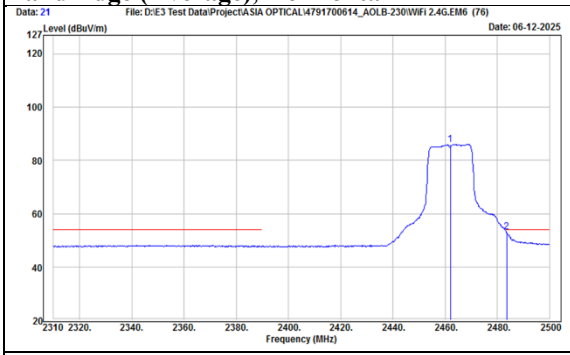
TX, 802.11g (Ch 11)
Radiated Spurious Emission, Horizontal



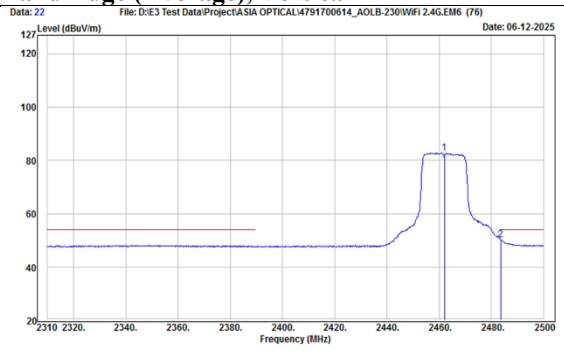
TX, 802.11g (Ch 11)
Radiated Spurious Emission, Vertical



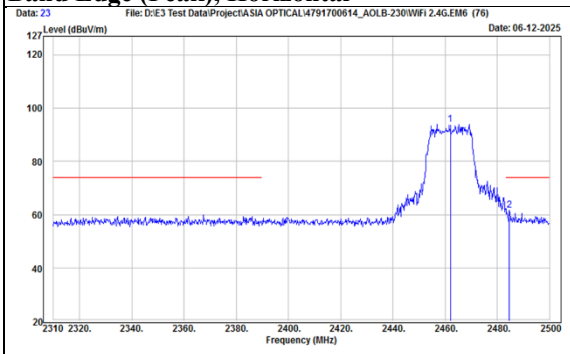
TX, 802.11g (Ch 11)
Band Edge (Average), Horizontal



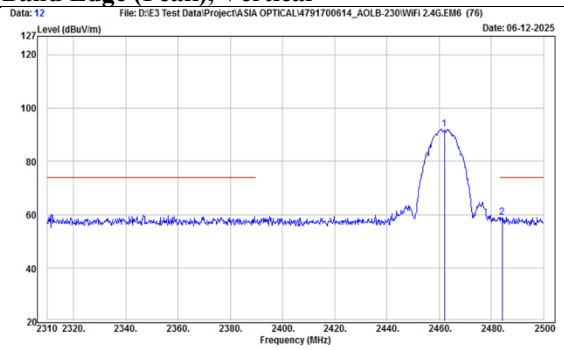
TX, 802.11g (Ch 11)
Band Edge (Average), Vertical



TX, 802.11g (Ch 11)
Band Edge (Peak), Horizontal



TX, 802.11g (Ch 11)
Band Edge (Peak), Vertical

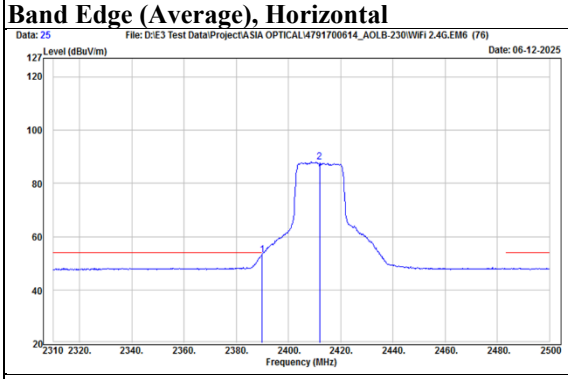


TX, 802.11g (Ch 11)
Band Edge (Peak), Vertical

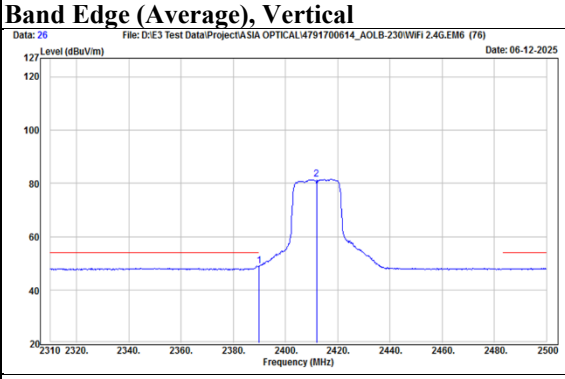
Mode	802.11n(HT20)	Channel	1

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2389.8	47.07	19.17	66.24	74	-7.76	PK
		2389.99	34.07	19.17	53.24	54	-0.76	AVG
	@	2412	77.49	19.14	96.63	N/A	N/A	PK
	@	2412	68.81	19.14	87.95	N/A	N/A	AVG
Vertical		2317.79	40.2	19.34	59.54	74	-14.46	PK
		2389.99	29.83	19.17	49	54	-5	AVG
	@	2412	71.04	19.14	90.18	N/A	N/A	PK
	@	2412	62.53	19.14	81.67	N/A	N/A	AVG

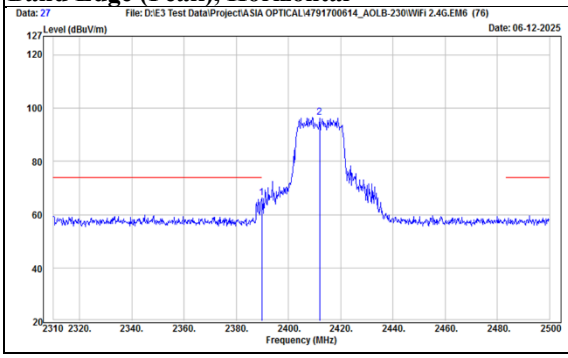
TX, 802.11n(HT20) (Ch 1)
Band Edge (Average), Horizontal



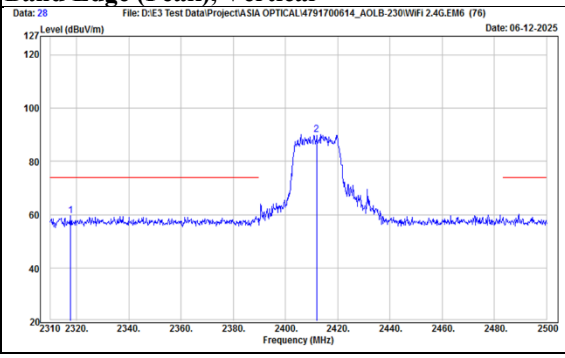
TX, 802.11n(HT20) (Ch 1)
Band Edge (Average), Vertical



TX, 802.11n(HT20) (Ch 1)
Band Edge (Peak), Horizontal



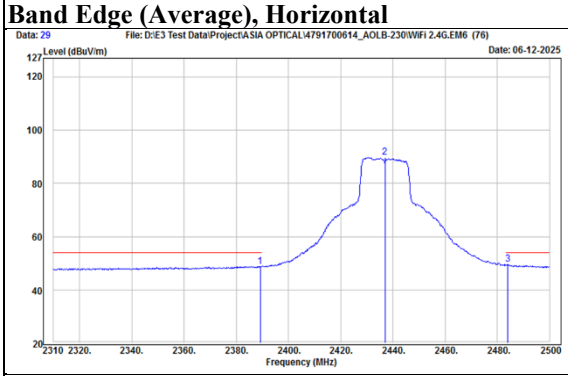
TX, 802.11n(HT20) (Ch 1)
Band Edge (Peak), Vertical



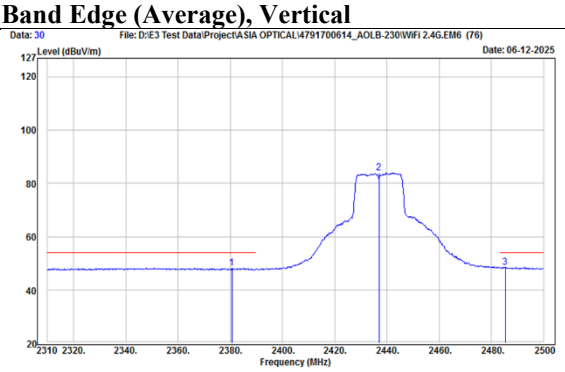
Mode	802.11n(HT20)	Channel	6

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2349.9	41.24	19.4	60.64	74	-13.36	PK
		2389.23	29.67	19.18	48.85	54	-5.15	AVG
	@	2437	78.61	19.18	97.79	N/A	N/A	PK
	@	2437	70.47	19.18	89.65	N/A	N/A	AVG
		2484.04	30.29	19.19	49.48	54	-4.52	AVG
		2492.21	40.52	19.19	59.71	74	-14.29	PK
Vertical		2371.18	40.98	19.29	60.27	74	-13.73	PK
		2380.68	28.9	19.22	48.12	54	-5.88	AVG
	@	2437	73.85	19.18	93.03	N/A	N/A	PK
	@	2437	64.75	19.18	83.93	N/A	N/A	AVG
		2484.04	40.21	19.19	59.4	74	-14.6	PK
		2485.37	29.33	19.19	48.52	54	-5.48	AVG

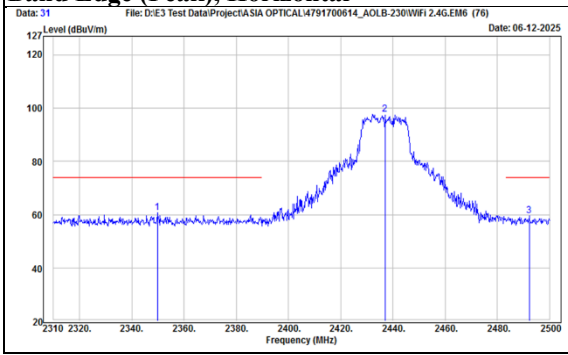
TX, 802.11n(HT20) (Ch 6)
Band Edge (Average), Horizontal



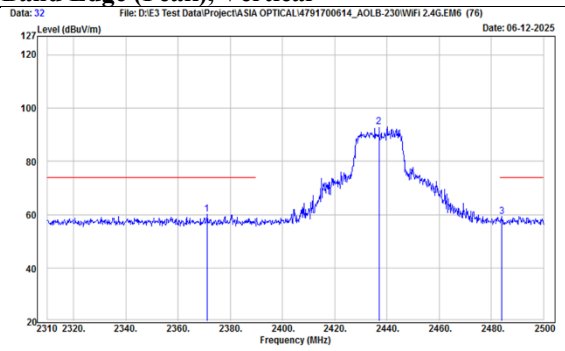
TX, 802.11n(HT20) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11n(HT20) (Ch 6)
Band Edge (Peak), Horizontal



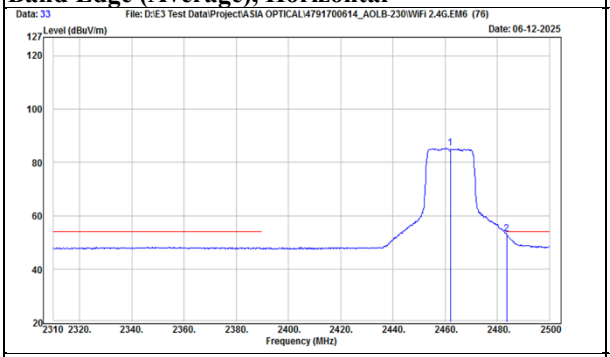
TX, 802.11n(HT20) (Ch 6)
Band Edge (Peak), Vertical



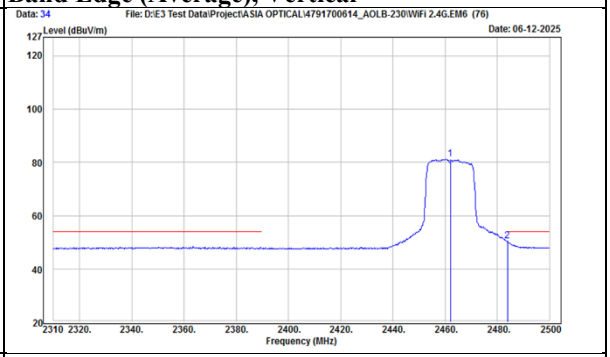
Mode	802.11n(HT20)	Channel	11

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	74.58	19.19	93.77	N/A	N/A	PK
	@	2462	66.05	19.19	85.24	N/A	N/A	AVG
		2483.66	46.61	19.19	65.8	74	-8.2	PK
		2483.66	34.04	19.19	53.23	54	-0.77	AVG
Vertical	@	2462	70.92	19.19	90.11	N/A	N/A	PK
	@	2462	61.96	19.19	81.15	N/A	N/A	AVG
		2483.85	31.35	19.19	50.54	54	-3.46	AVG
		2484.61	44.22	19.19	63.41	74	-10.59	PK

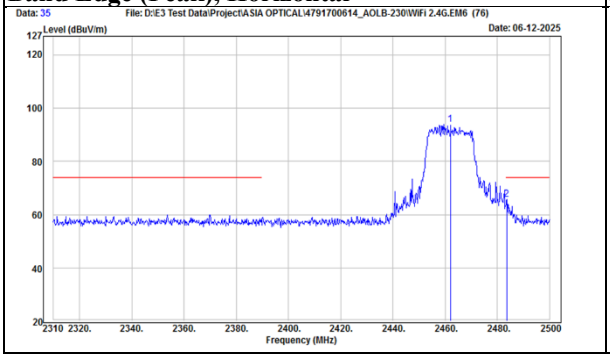
TX, 802.11n(HT20) (Ch 11)
Band Edge (Average), Horizontal



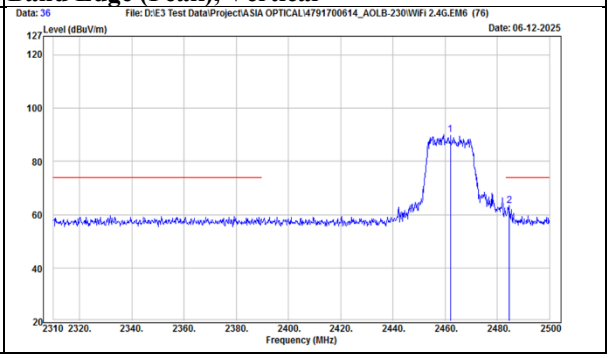
TX, 802.11n(HT20) (Ch 11)
Band Edge (Average), Vertical



TX, 802.11n(HT20) (Ch 11)
Band Edge (Peak), Horizontal



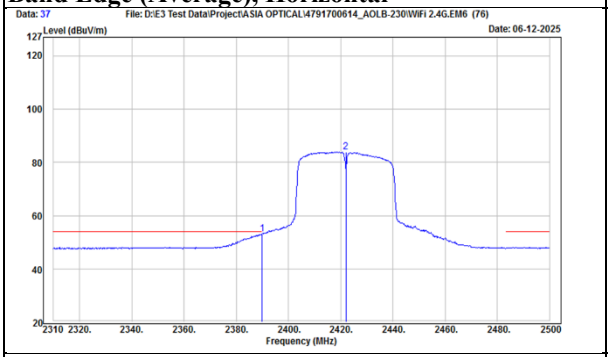
TX, 802.11n(HT20) (Ch 11)
Band Edge (Peak), Vertical



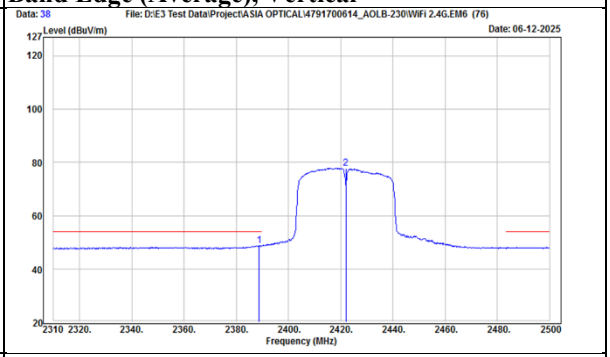
Mode	802.11n(HT40)	Channel	3

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2388.85	46.05	19.18	65.23	74	-8.77	PK
		2389.99	33.93	19.17	53.1	54	-0.9	AVG
		2419.82	75.8	19.15	94.95	N/A	N/A	PK
	@	2422	64.76	19.16	83.92	N/A	N/A	AVG
Vertical		2370.99	41.23	19.28	60.51	74	-13.49	PK
		2388.85	29.6	19.18	48.78	54	-5.22	AVG
		2413.74	67.77	19.14	86.91	N/A	N/A	PK
	@	2422	58.68	19.16	77.84	N/A	N/A	AVG

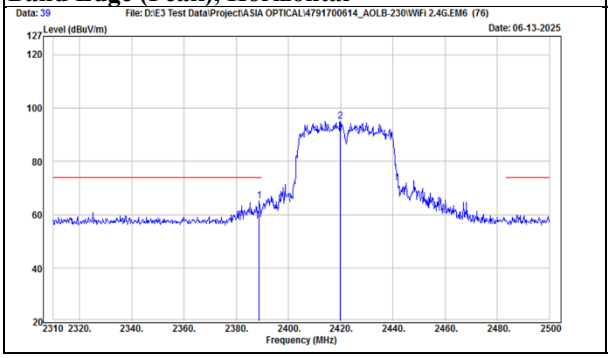
TX, 802.11n(HT40) (Ch 3)
Band Edge (Average), Horizontal



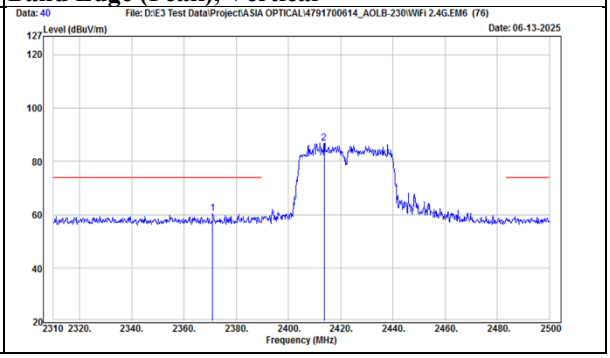
TX, 802.11n(HT40) (Ch 3)
Band Edge (Average), Vertical



TX, 802.11n(HT40) (Ch 3)
Band Edge (Peak), Horizontal



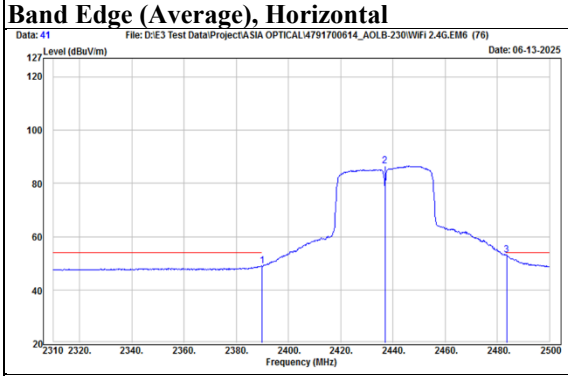
TX, 802.11n(HT40) (Ch 3)
Band Edge (Peak), Vertical



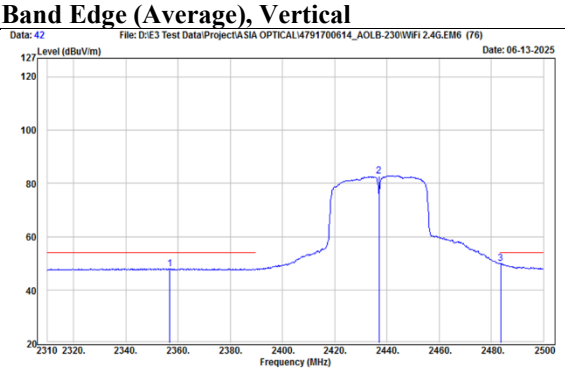
Mode	802.11n(HT40)	Channel	6

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2340.4	40.84	19.38	60.22	74	-13.78	PK
		2389.99	29.85	19.17	49.02	54	-4.98	AVG
	@	2437	76.88	19.18	96.06	N/A	N/A	PK
	@	2437	67.28	19.18	86.46	N/A	N/A	AVG
		2483.66	33.89	19.19	53.08	54	-0.92	AVG
		2484.04	45.18	19.19	64.37	74	-9.63	PK
Vertical		2350.28	40.81	19.4	60.21	74	-13.79	PK
		2356.93	28.6	19.36	47.96	54	-6.04	AVG
	@	2437	71.75	19.18	90.93	N/A	N/A	PK
	@	2437	63.59	19.18	82.77	N/A	N/A	AVG
		2483.66	30.81	19.19	50	54	-4	AVG
		2484.61	41.3	19.19	60.49	74	-13.51	PK

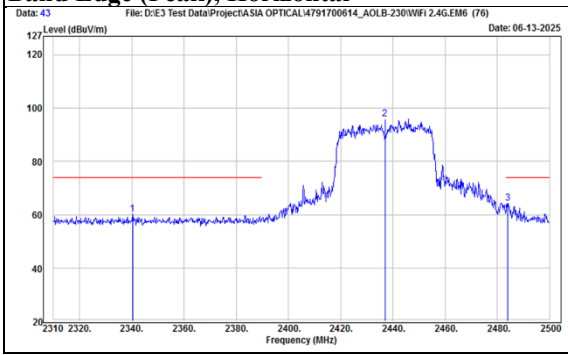
TX, 802.11n(HT40) (Ch 6)
Band Edge (Average), Horizontal



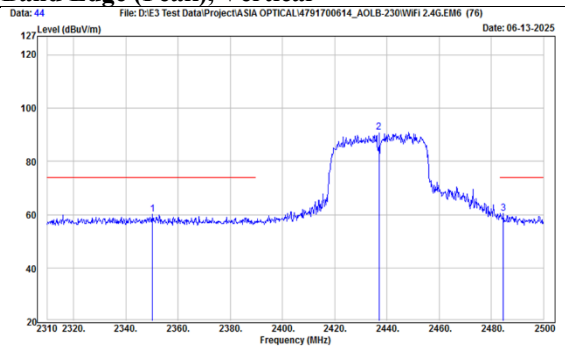
TX, 802.11n(HT40) (Ch 6)
Band Edge (Average), Vertical



TX, 802.11n(HT40) (Ch 6)
Band Edge (Peak), Horizontal



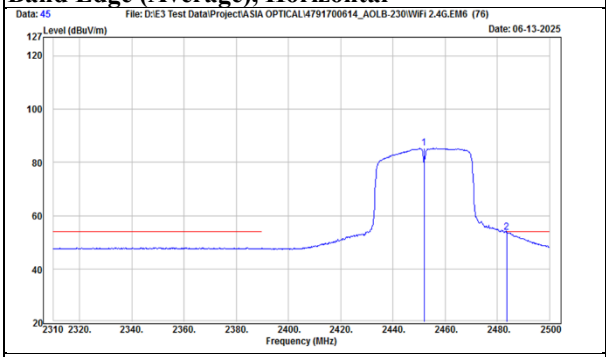
TX, 802.11n(HT40) (Ch 6)
Band Edge (Peak), Vertical



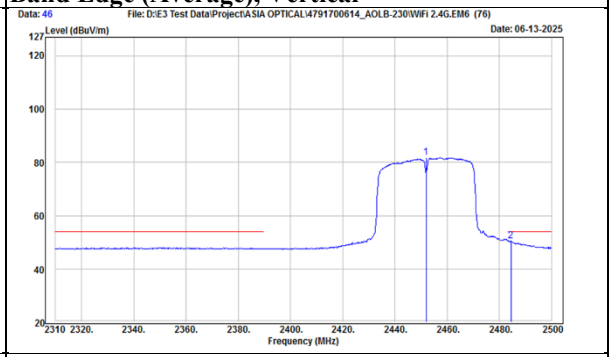
Mode	802.11n(HT40)	Channel	9

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	75.07	19.2	94.27	N/A	N/A	PK
	@	2452	66.13	19.2	85.33	N/A	N/A	AVG
		2483.66	34.42	19.19	53.61	54	-0.39	AVG
		2484.42	47.22	19.19	66.41	74	-7.59	PK
Vertical	@	2452	71.4	19.2	90.6	N/A	N/A	PK
	@	2452	62.51	19.2	81.71	N/A	N/A	AVG
		2484.42	31.28	19.19	50.47	54	-3.53	AVG
		2487.46	46.35	19.2	65.55	74	-8.45	PK

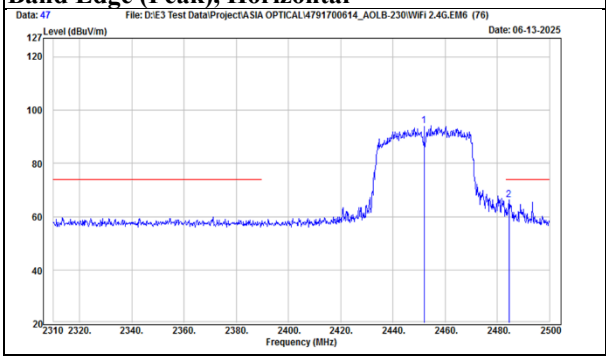
TX, 802.11n(HT40) (Ch 9)
Band Edge (Average), Horizontal



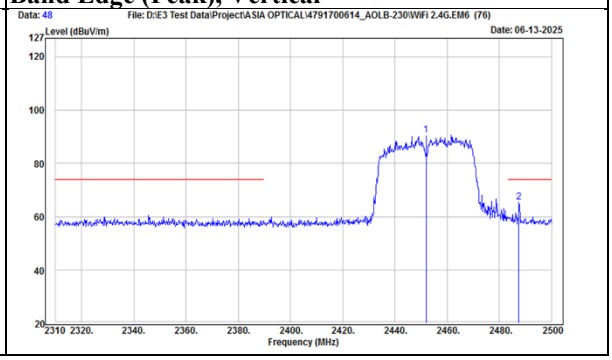
TX, 802.11n(HT40) (Ch 9)
Band Edge (Average), Vertical



TX, 802.11n(HT40) (Ch 9)
Band Edge (Peak), Horizontal



TX, 802.11n(HT40) (Ch 9)
Band Edge (Peak), Vertical

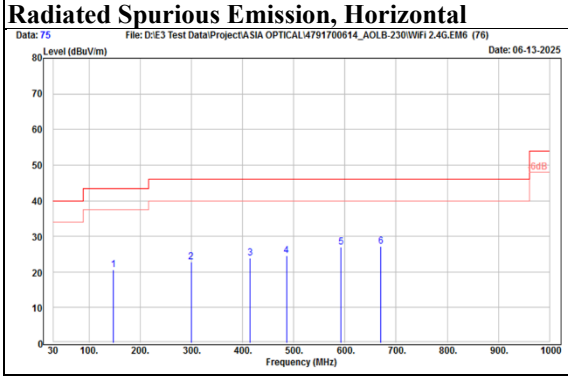


Below 1 GHz

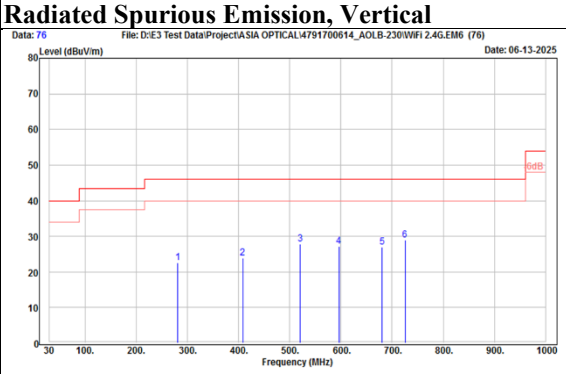
Mode	802.11b	Channel	6

Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		147.37	40.67	-20.1	20.57	43.5	-22.93	PK
		299.66	41.74	-18.88	22.86	46	-23.14	PK
		415.09	39.64	-15.76	23.88	46	-22.12	PK
		485.9	38.29	-13.82	24.47	46	-21.53	PK
		592.6	38.11	-11.12	26.99	46	-19.01	PK
		670.2	36.9	-9.75	27.15	46	-18.85	PK
Vertical		281.23	42.05	-19.41	22.64	46	-23.36	PK
		408.3	39.78	-15.94	23.84	46	-22.16	PK
		520.82	40.86	-13.01	27.85	46	-18.15	PK
		596.48	38.18	-10.93	27.25	46	-18.75	PK
		680.87	36.3	-9.43	26.87	46	-19.13	PK
		725.49	37.43	-8.48	28.95	46	-17.05	PK

TX, 802.11b (Ch 6)
Radiated Spurious Emission, Horizontal



TX, 802.11b (Ch 6)
Radiated Spurious Emission, Vertical



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.

9.6. AC Power Line Conducted Emission

Requirements

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

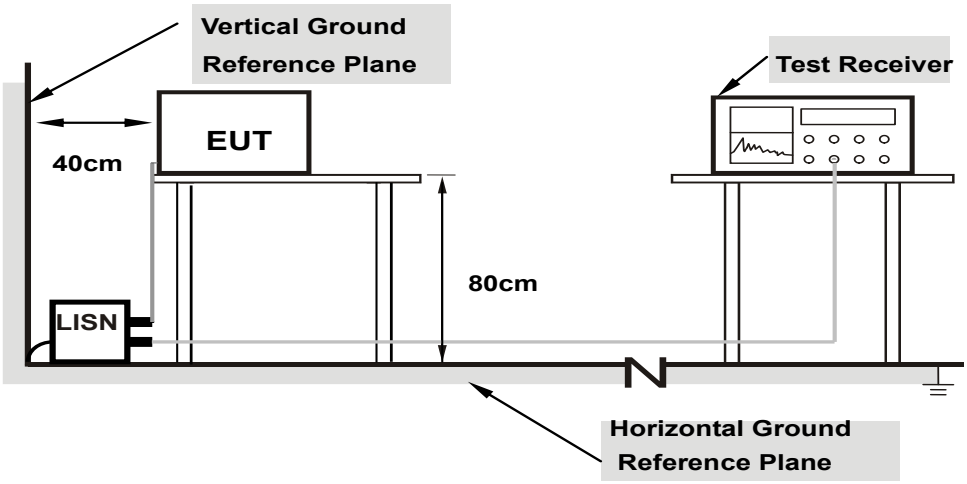
Note:
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

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 (dBuV) = Reading value (dBuV) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dBuV) - Limit value (dBuV).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

Test Setup



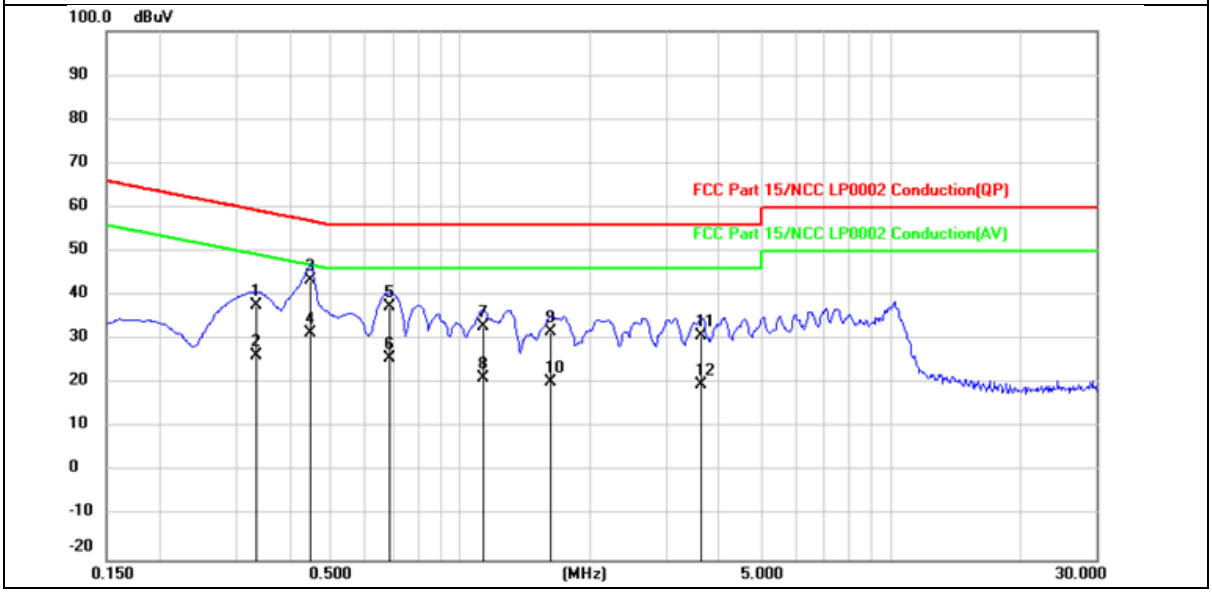
Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	11g_TX2437	Channel	6

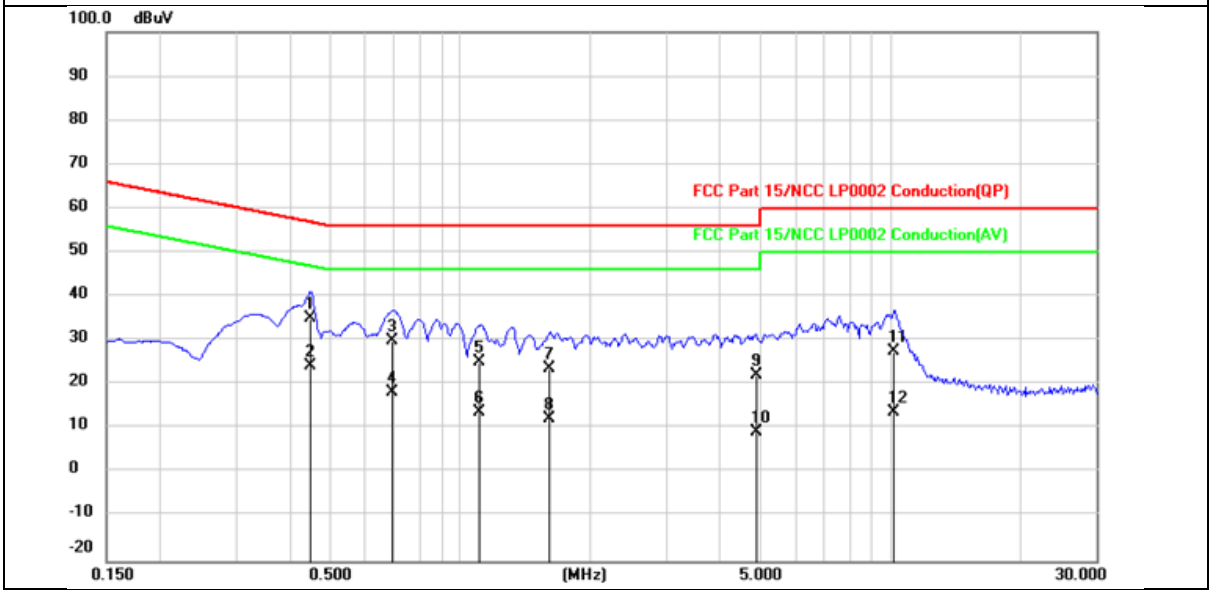
Phase: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3351	27.72	9.97	37.69	59.32	-21.63	QP
2	0.3351	16.33	9.97	26.30	49.32	-23.02	AVG
3	0.4462	33.43	9.97	43.40	56.95	-13.55	QP
4	0.4462	21.49	9.97	31.46	46.95	-15.49	AVG
5	0.6869	27.36	9.99	37.35	56.00	-18.65	QP
6	0.6869	15.72	9.99	25.71	46.00	-20.29	AVG
7	1.1246	22.96	10.00	32.96	56.00	-23.04	QP
8	1.1246	11.14	10.00	21.14	46.00	-24.86	AVG
9	1.6219	21.87	10.02	31.89	56.00	-24.11	QP
10	1.6219	10.47	10.02	20.49	46.00	-25.51	AVG
11	3.6221	20.87	10.08	30.95	56.00	-25.05	QP
12	3.6221	9.78	10.08	19.86	46.00	-26.14	AVG

Mode	11g_TX2437	Channel	6

Phase: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.4460	25.17	9.95	35.12	56.95	-21.83	QP
2	0.4460	14.20	9.95	24.15	46.95	-22.80	AVG
3	0.6884	20.02	9.96	29.98	56.00	-26.02	QP
4	0.6884	8.27	9.96	18.23	46.00	-27.77	AVG
5	1.1008	15.31	9.97	25.28	56.00	-30.72	QP
6	1.1008	3.77	9.97	13.74	46.00	-32.26	AVG
7	1.6071	13.70	9.99	23.69	56.00	-32.31	QP
8	1.6071	2.30	9.99	12.29	46.00	-33.71	AVG
9	4.8516	12.20	10.08	22.28	56.00	-33.72	QP
10	4.8516	-0.69	10.08	9.39	46.00	-36.61	AVG
11	10.1548	17.17	10.24	27.41	60.00	-32.59	QP
12	10.1548	3.45	10.24	13.69	50.00	-36.31	AVG

END OF REPORT