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Issued date : 2022/9/30
FCC ID : 2AE3B-AEX-QCA98X

Mode	TurboQAM (VHT40)	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2370.8	41.19	16.07	57.26	74	-16.74	PK
		2389.8	31.73	16.1	47.83	54	-6.17	AVG
	@	2437	83.96	16.12	100.08	N/A	N/A	PK
	@	2437	76.05	16.12	92.17	N/A	N/A	AVG
		2484.61	30.5	16.1	46.6	54	-7.4	AVG
		2496.96	41.35	16.1	57.45	74	-16.55	PK
	*	4874	36.61	2.66	39.27	74	-34.73	PK
Vertical		2389.42	47.84	16.1	63.94	74	-10.06	PK
		2389.61	37.35	16.1	53.45	54	-0.55	AVG
	@	2437	97.32	16.12	113.44	N/A	N/A	PK
	@	2437	88.84	16.12	104.96	N/A	N/A	AVG
		2484.04	35.82	16.1	51.92	54	-2.08	AVG
		2485.37	45.93	16.1	62.03	74	-11.97	PK
	*	4874	44.5	2.66	47.16	74	-26.84	PK

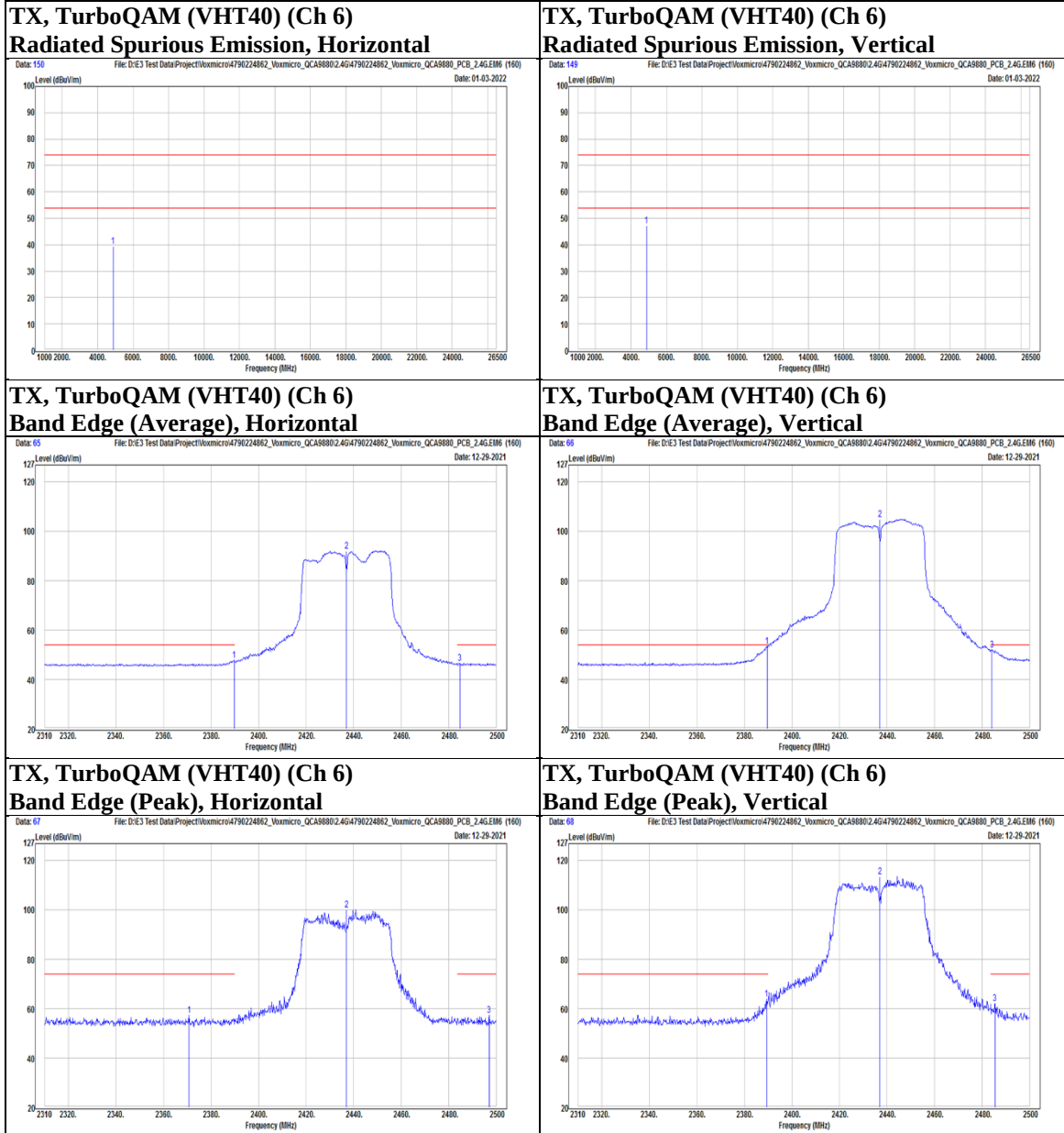
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Doc No: 17-EM-F0876 / 6.0





Mode	TurboQAM (VHT40)	Channel	8
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2447	80.88	16.12	97	N/A	N/A	PK
	@	2447	72.71	16.12	88.83	N/A	N/A	AVG
		2483.66	30.84	16.1	46.94	54	-7.06	AVG
		2486.13	40.74	16.1	56.84	74	-17.16	PK
	*	4894	36.84	2.64	39.48	74	-34.52	PK
Vertical	@	2447	92.92	16.12	109.04	N/A	N/A	PK
	@	2447	84.53	16.12	100.65	N/A	N/A	AVG
		2483.66	36.33	16.1	52.43	54	-1.57	AVG
		2485.18	46.42	16.1	62.52	74	-11.48	PK
	*	4894	40.72	2.64	43.36	74	-30.64	PK

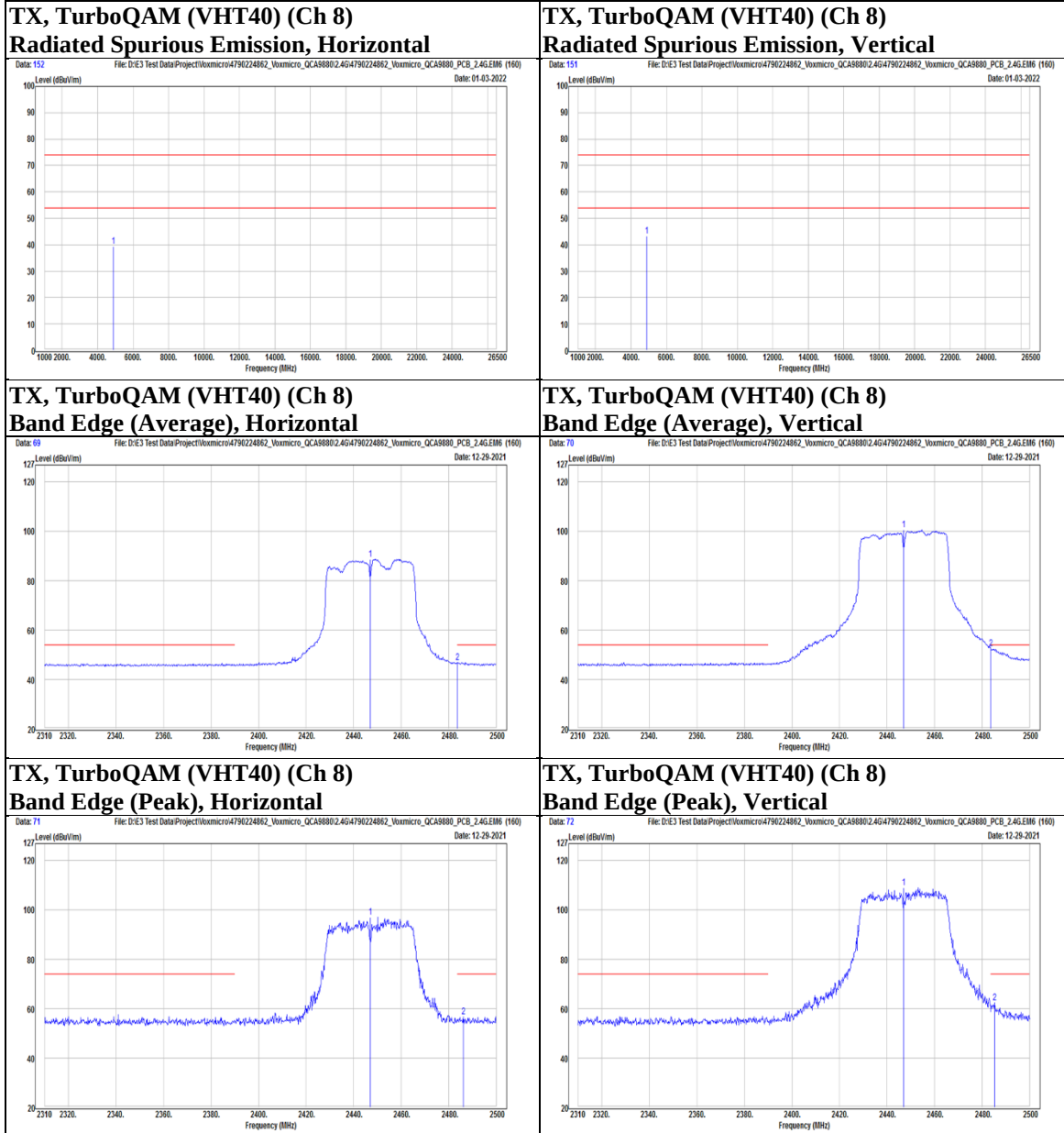
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Mode	TurboQAM (VHT40)	Channel	9
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2452	77.34	16.12	93.46	N/A	N/A	PK
	@	2452	70.54	16.12	86.66	N/A	N/A	AVG
		2483.66	31.63	16.1	47.73	54	-6.27	AVG
		2499.05	40.66	16.1	56.76	74	-17.24	PK
	*	4904	36.32	2.63	38.95	74	-35.05	PK
Vertical	@	2452	88.71	16.12	104.83	N/A	N/A	PK
	@	2452	81.03	16.12	97.15	N/A	N/A	AVG
		2483.66	48.77	16.1	64.87	74	-9.13	PK
		2483.66	37.4	16.1	53.5	54	-0.5	AVG
	*	4904	37.17	2.63	39.8	74	-34.2	PK

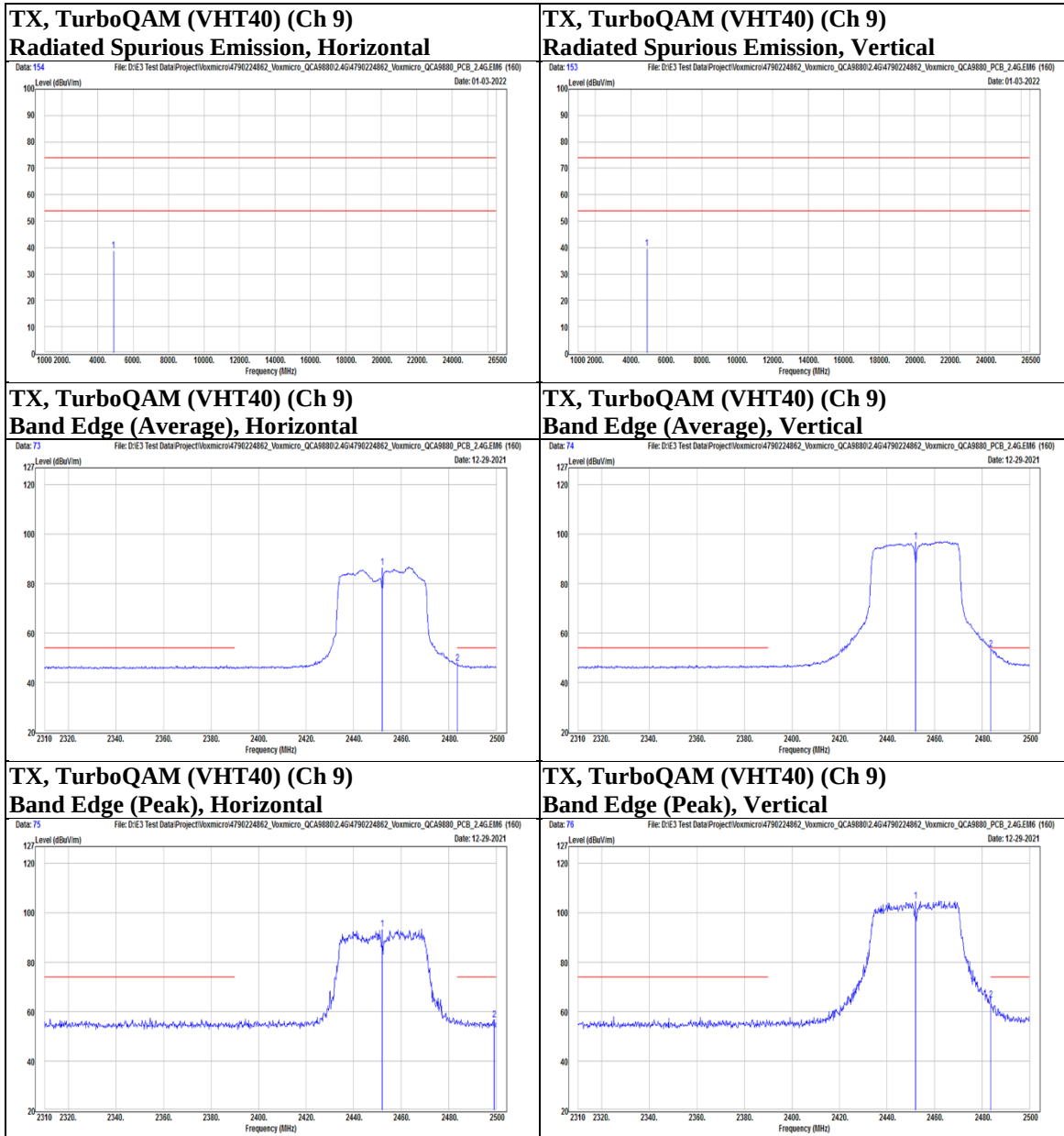
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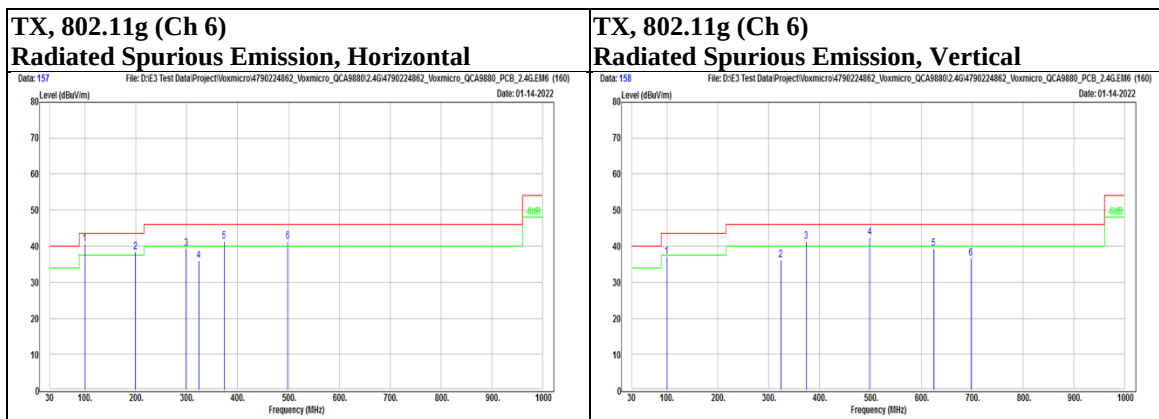




Below 1 GHz

Mode	802.11g	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		99.84	57.16	-16.45	40.71	43.5	-2.79	PK
		198.78	52.42	-13.9	38.52	43.5	-4.98	PK
		298.69	49.22	-9.99	39.23	46	-6.77	PK
		323.91	45.21	-9.18	36.03	46	-9.97	PK
		373.38	49.11	-7.78	41.33	46	-4.67	PK
		498.51	46.12	-4.79	41.33	46	-4.67	PK
Vertical		99.84	53.56	-16.45	37.11	43.5	-6.39	PK
		323.91	45.39	-9.18	36.21	46	-9.79	PK
		373.38	49.12	-7.78	41.34	46	-4.66	PK
		498.51	47.3	-4.79	42.51	46	-3.49	PK
		624.61	41.15	-1.77	39.38	46	-6.62	PK
		697.36	37.17	-0.45	36.72	46	-9.28	PK



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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.

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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).

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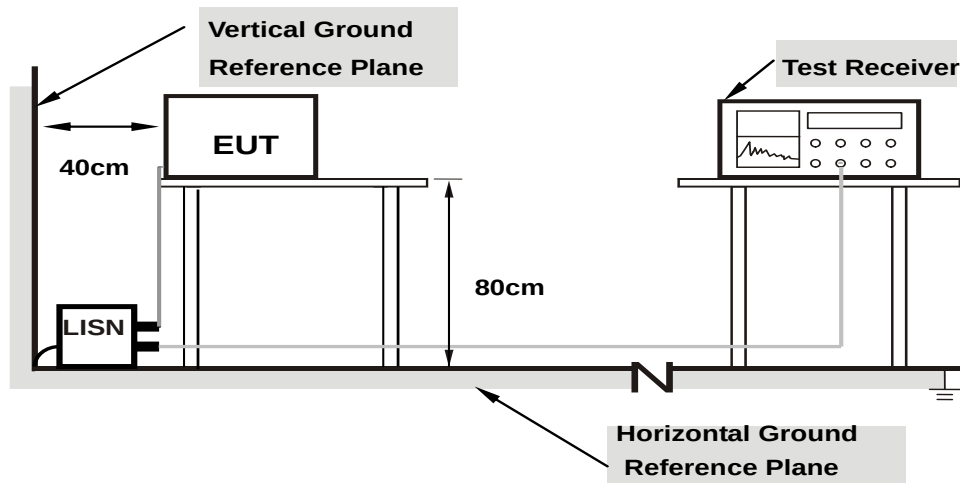
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Test Setup



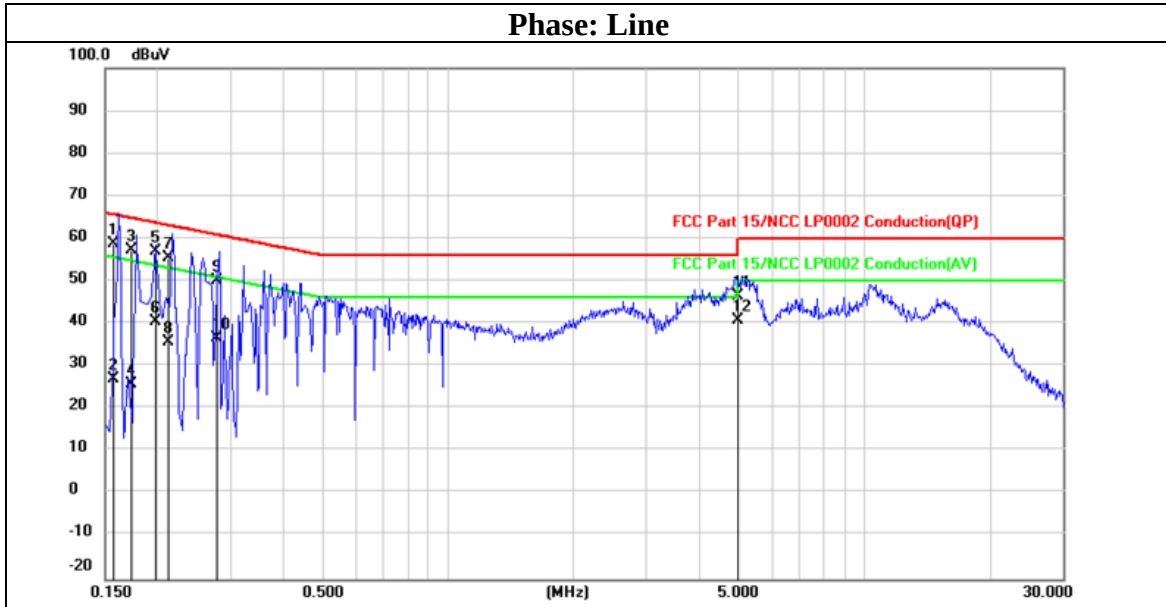
Note: 1.Support units were connected to second LISN.

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



Test Data

Mode	11g_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1573	48.72	9.98	58.70	65.61	-6.91	QP
2	0.1573	17.10	9.98	27.08	55.61	-28.53	AVG
3	0.1737	47.36	9.98	57.34	64.78	-7.44	QP
4	0.1737	15.90	9.98	25.88	54.78	-28.90	AVG
5	0.1981	46.98	9.97	56.95	63.69	-6.74	QP
6	0.1981	30.41	9.97	40.38	53.69	-13.31	AVG
7	0.2138	45.49	9.97	55.46	63.06	-7.60	QP
8	0.2138	25.63	9.97	35.60	53.06	-17.46	AVG
9	0.2775	40.20	9.97	50.17	60.89	-10.72	QP
10	0.2775	26.52	9.97	36.49	50.89	-14.40	AVG
11	4.9782	36.37	10.12	46.49	56.00	-9.51	QP
12	4.9782	30.60	10.12	40.72	46.00	-5.28	AVG

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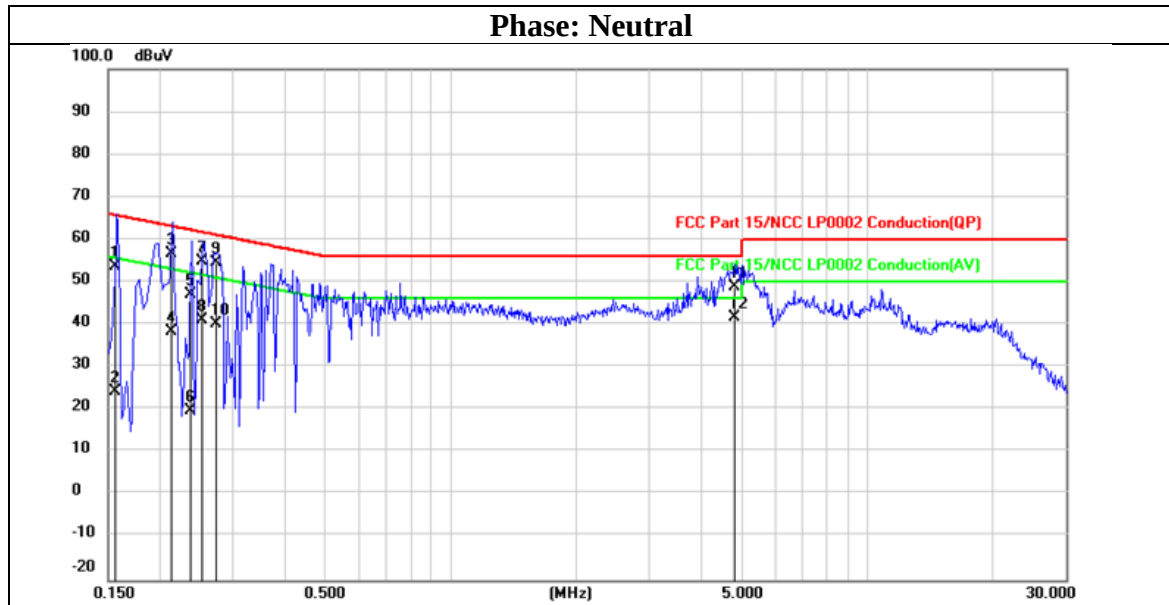
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Mode	11g_TX2437	Channel	6
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1553	43.77	10.00	53.77	65.71	-11.94	QP
2	0.1553	14.33	10.00	24.33	55.71	-31.38	AVG
3	0.2124	46.64	10.00	56.64	63.11	-6.47	QP
4	0.2124	28.45	10.00	38.45	53.11	-14.66	AVG
5	0.2354	36.96	10.00	46.96	62.26	-15.30	QP
6	0.2354	9.76	10.00	19.76	52.26	-32.50	AVG
7	0.2509	44.97	10.00	54.97	61.73	-6.76	QP
8	0.2509	31.03	10.00	41.03	51.73	-10.70	AVG
9	0.2717	44.53	10.00	54.53	61.07	-6.54	QP
10	0.2717	30.04	10.00	40.04	51.07	-11.03	AVG
11	4.8087	38.82	10.14	48.96	56.00	-7.04	QP
12	4.8087	31.44	10.14	41.58	46.00	-4.42	AVG

END OF REPORT

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