

Mode	802.11n(HT20)	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		2373.84	40.43	15.85	56.28	74	-17.72	PK
		2386.19	30.11	15.83	45.94	54	-8.06	AVG
	@	2437	84.69	15.92	100.61	N/A	N/A	PK
	@	2437	75.51	15.92	91.43	N/A	N/A	AVG
		2487.84	29.74	15.65	45.39	54	-8.61	AVG
		2490.12	40.11	15.63	55.74	74	-18.26	PK
	*	4874	37.35	2.4	39.75	74	-34.25	PK
Vertical		2343.63	40.78	15.9	56.68	74	-17.32	PK
		2387.33	30.66	15.82	46.48	54	-7.52	AVG
	@	2437	87.55	15.92	103.47	N/A	N/A	PK
	@	2437	78.85	15.92	94.77	N/A	N/A	AVG
		2484.42	29.91	15.68	45.59	54	-8.41	AVG
		2488.22	40.94	15.65	56.59	74	-17.41	PK
	*	4874	37.77	2.4	40.17	74	-33.83	PK

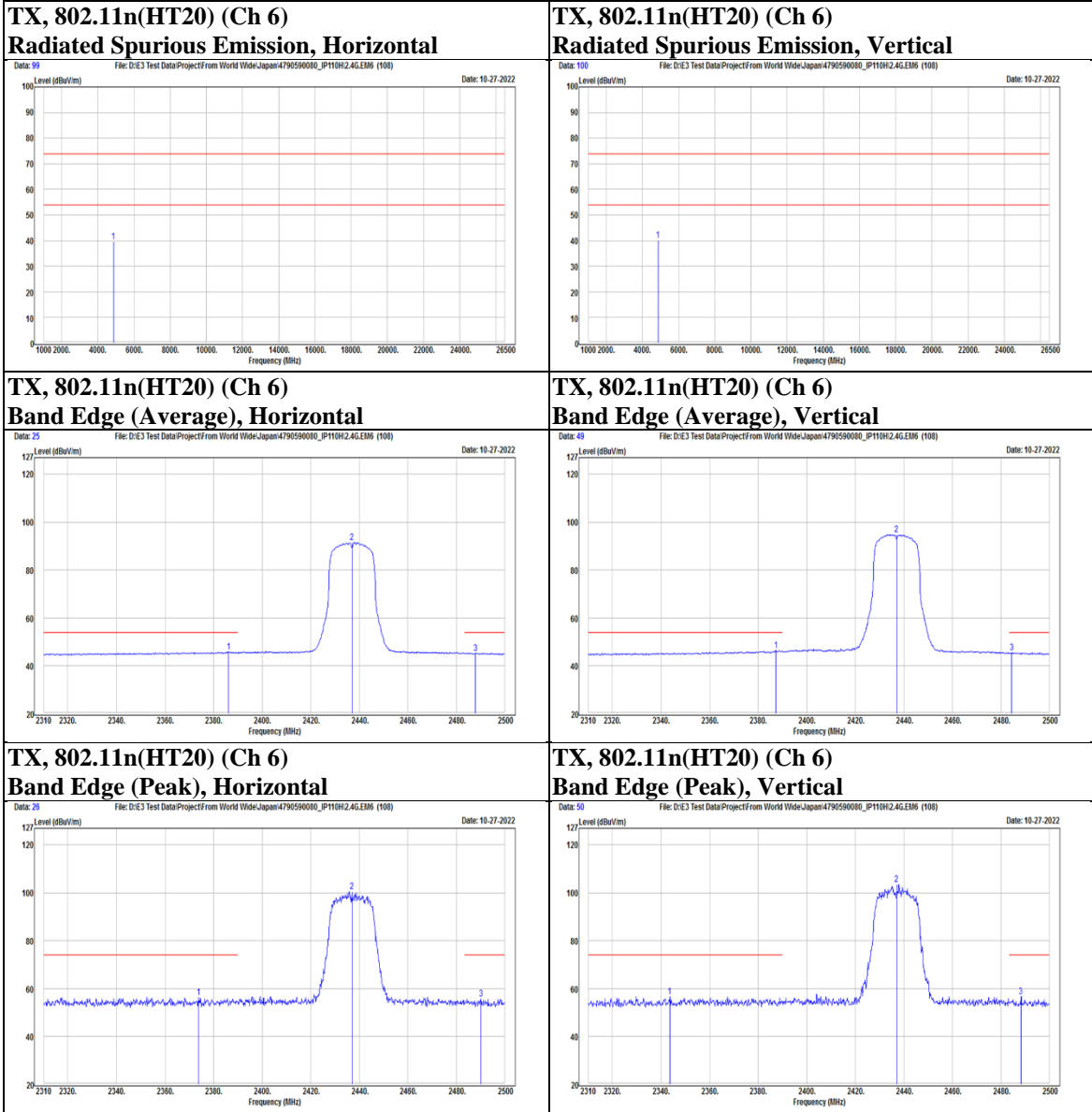
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Mode	802.11n(HT20)	Channel	11
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2462	83.84	15.87	99.71	N/A	N/A	PK
	@	2462	74.88	15.87	90.75	N/A	N/A	AVG
		2488.03	40.55	15.65	56.2	74	-17.8	PK
		2489.36	29.93	15.64	45.57	54	-8.43	AVG
	*	4924	36.52	2.4	38.92	74	-35.08	PK
Vertical	@	2462	85.47	15.87	101.34	N/A	N/A	PK
	@	2462	77	15.87	92.87	N/A	N/A	AVG
		2484.99	29.96	15.67	45.63	54	-8.37	AVG
		2491.07	39.84	15.62	55.46	74	-18.54	PK
	*	4924	38.01	2.4	40.41	74	-33.59	PK

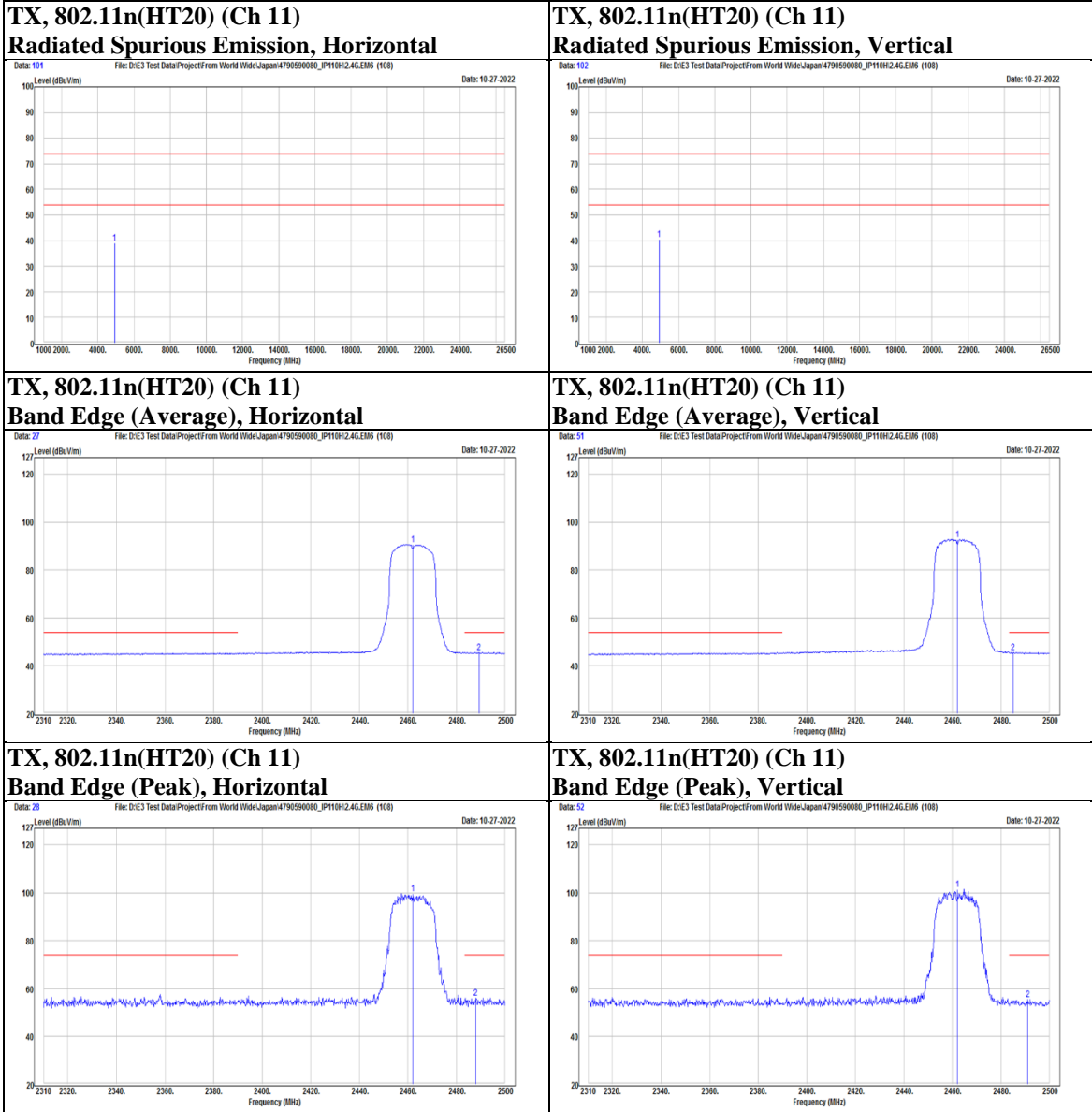
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Mode	802.11n(HT40)	Channel	3
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2367.19	41.71	15.87	57.58	74	-16.42	PK
		2387.71	31.21	15.82	47.03	54	-6.97	AVG
	@	2422	81.5	15.86	97.36	N/A	N/A	PK
	@	2422	72.45	15.86	88.31	N/A	N/A	AVG
	*	4844	36.8	2.38	39.18	74	-34.82	PK
Vertical		2367.76	41.4	15.87	57.27	74	-16.73	PK
		2389.61	31.82	15.82	47.64	54	-6.36	AVG
	@	2422	84.67	15.86	100.53	N/A	N/A	PK
	@	2422	76.01	15.86	91.87	N/A	N/A	AVG
	*	4844	36.08	2.38	38.46	74	-35.54	PK

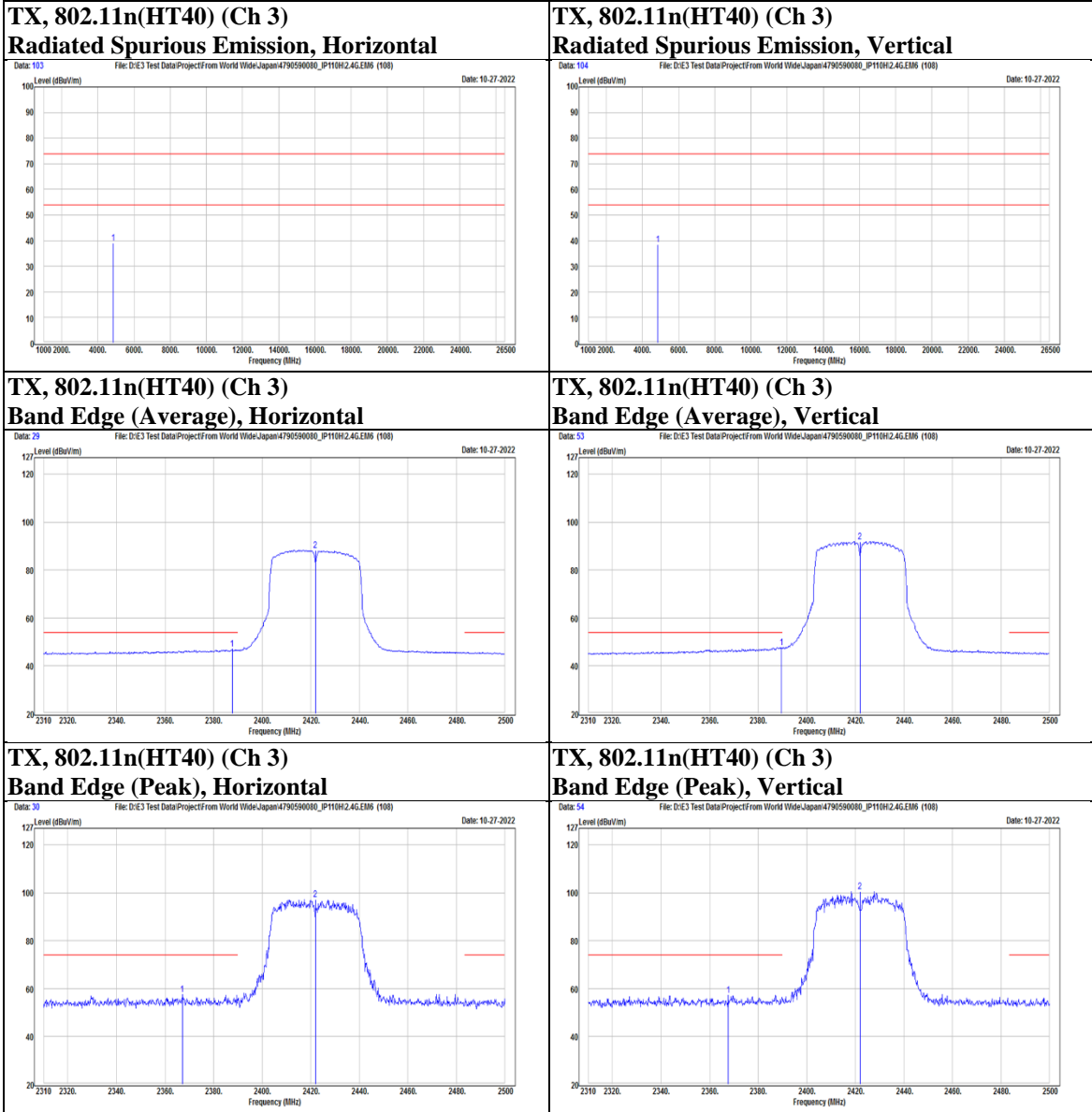
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Mode	802.11n(HT40)	Channel	6
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2380.87	29.83	15.84	45.67	54	-8.33	AVG
		2388.85	42.15	15.81	57.96	74	-16.04	PK
	@	2437	80.93	15.92	96.85	N/A	N/A	PK
	@	2437	71.95	15.92	87.87	N/A	N/A	AVG
		2488.22	29.95	15.65	45.6	54	-8.4	AVG
		2492.21	40.95	15.62	56.57	74	-17.43	PK
	*	4874	36.57	2.4	38.97	74	-35.03	PK
Vertical		2367.19	40.76	15.87	56.63	74	-17.37	PK
		2389.04	31.06	15.81	46.87	54	-7.13	AVG
	@	2437	84.07	15.92	99.99	N/A	N/A	PK
	@	2437	75.71	15.92	91.63	N/A	N/A	AVG
		2485.94	30.46	15.67	46.13	54	-7.87	AVG
		2499.24	40.75	15.56	56.31	74	-17.69	PK
	*	4874	36.14	2.4	38.54	74	-35.46	PK

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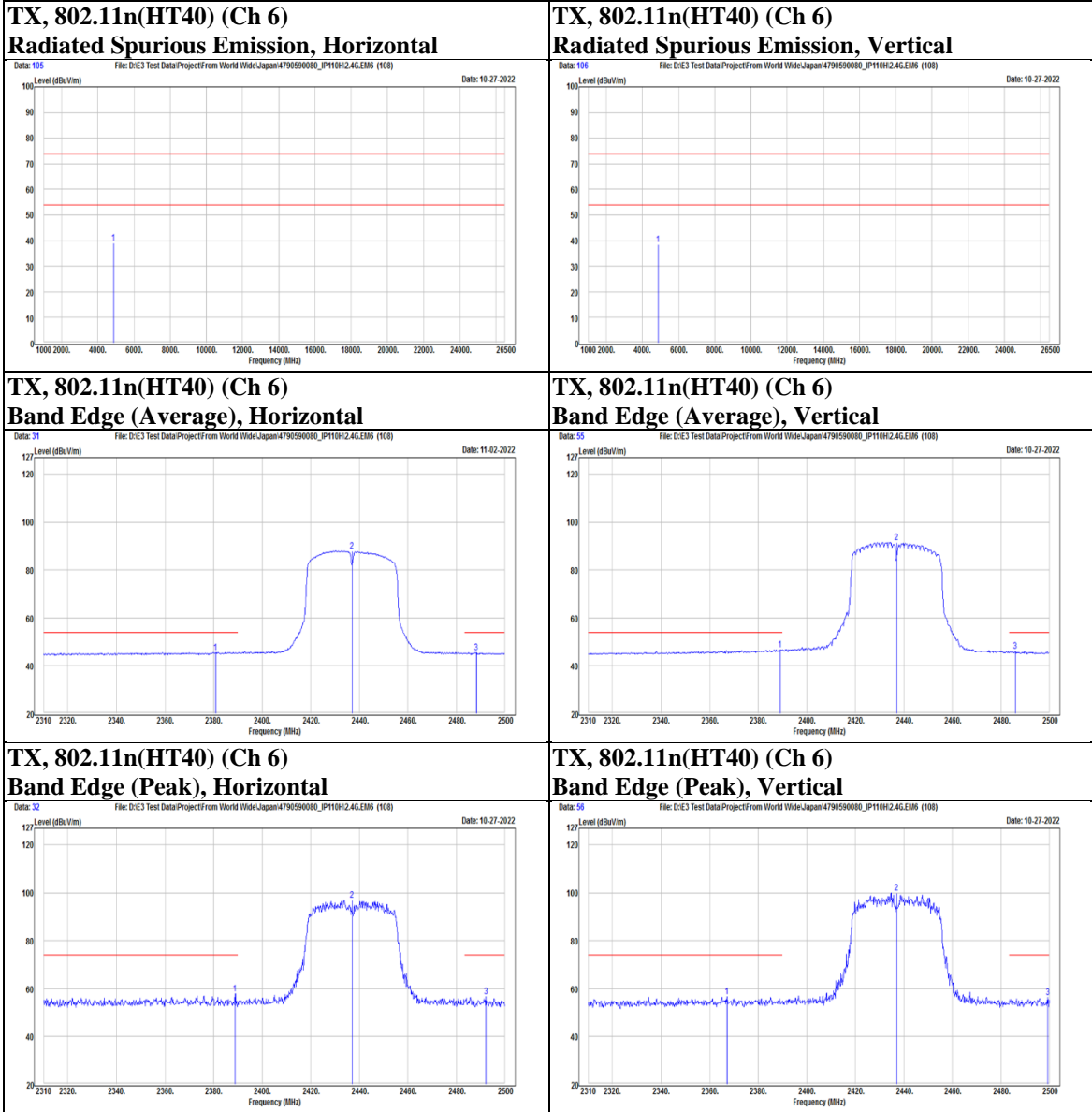
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Mode	802.11n(HT40)	Channel	9
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	2452	80.54	15.96	96.5	N/A	N/A	PK
	@	2452	71.6	15.96	87.56	N/A	N/A	AVG
		2484.61	30.16	15.67	45.83	54	-8.17	AVG
		2488.79	40.34	15.64	55.98	74	-18.02	PK
	*	4904	37.5	2.42	39.92	74	-34.08	PK
Vertical	@	2452	83.97	15.96	99.93	N/A	N/A	PK
	@	2452	74.19	15.96	90.15	N/A	N/A	AVG
		2483.66	30.39	15.68	46.07	54	-7.93	AVG
		2484.23	40.78	15.68	56.46	74	-17.54	PK
	*	4904	37.41	2.42	39.83	74	-34.17	PK

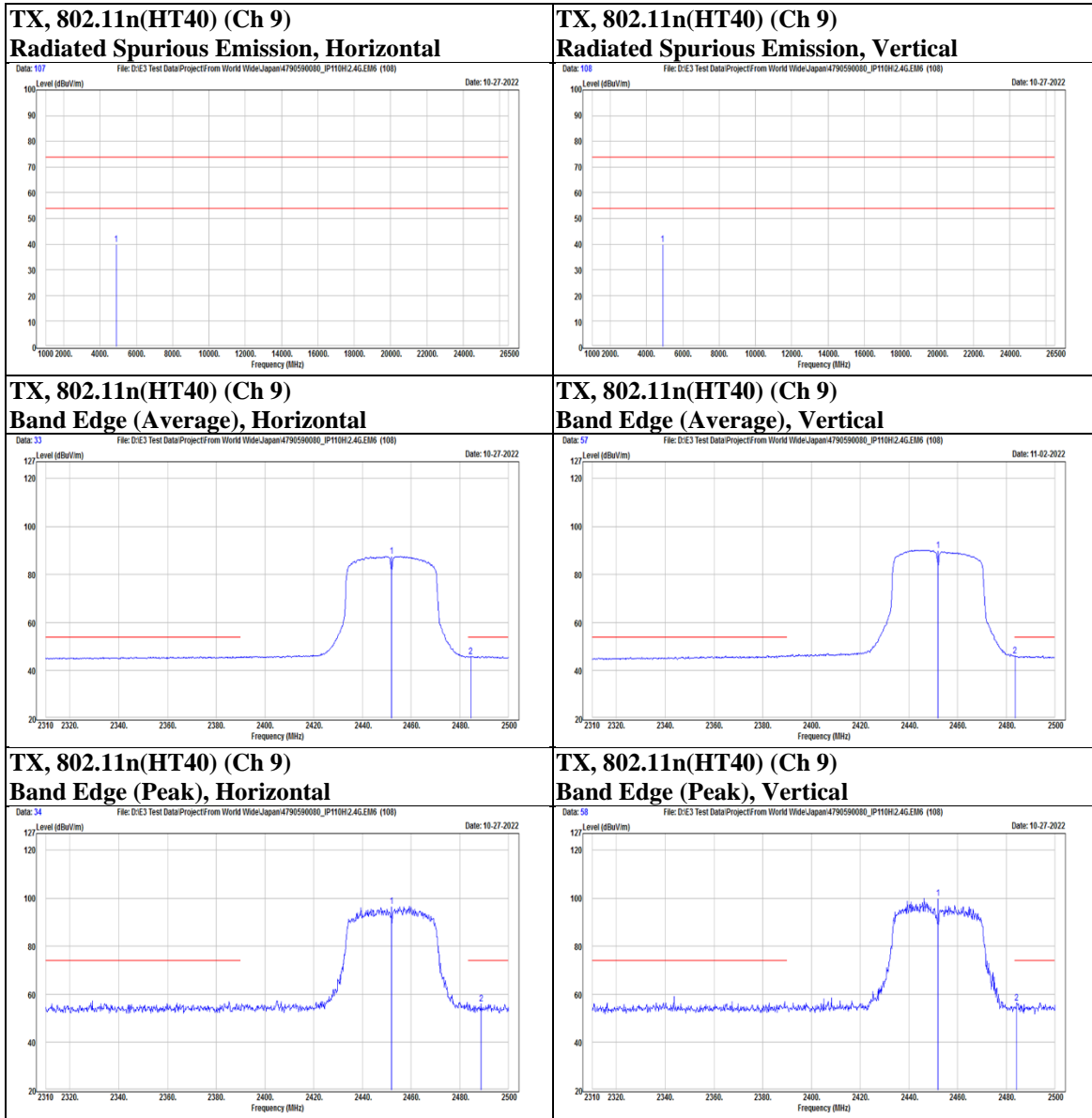
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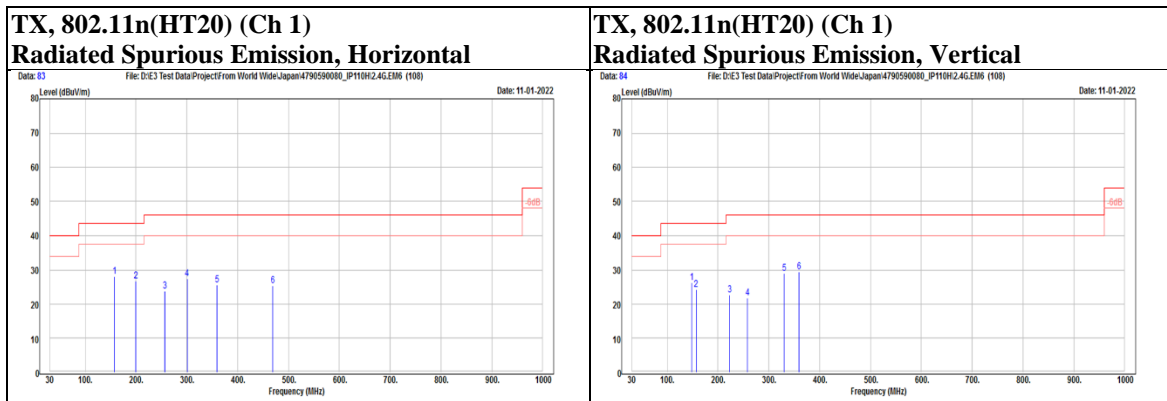
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### Below 1 GHz

Mode	802.11n(HT20)	Channel	1
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		158.04	39.64	-11.53	28.11	43.5	-15.39	PK
		199.75	40.94	-14.23	26.71	43.5	-16.79	PK
		256.98	36.05	-12.27	23.78	46	-22.22	PK
		300.63	38.28	-10.79	27.49	46	-18.51	PK
		359.8	35.11	-9.41	25.7	46	-20.3	PK
		469.41	31.35	-5.85	25.5	46	-20.5	PK
Vertical		148.34	38.19	-11.98	26.21	43.5	-17.29	PK
		157.07	35.71	-11.54	24.17	43.5	-19.33	PK
		223.03	36.89	-14.3	22.59	46	-23.41	PK
		257.95	34.02	-12.23	21.79	46	-24.21	PK
		330.7	38.84	-9.78	29.06	46	-16.94	PK
		359.8	38.93	-9.41	29.52	46	-16.48	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 (dB $\mu$ 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 $\mu$ V) = Reading value (dB $\mu$ V) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dB $\mu$ V) - Limit value (dB $\mu$ V).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

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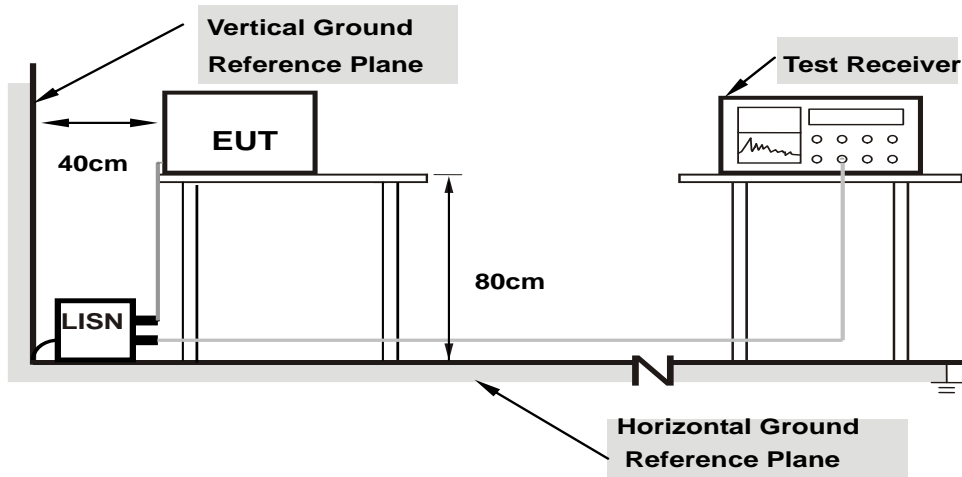
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## Test Setup

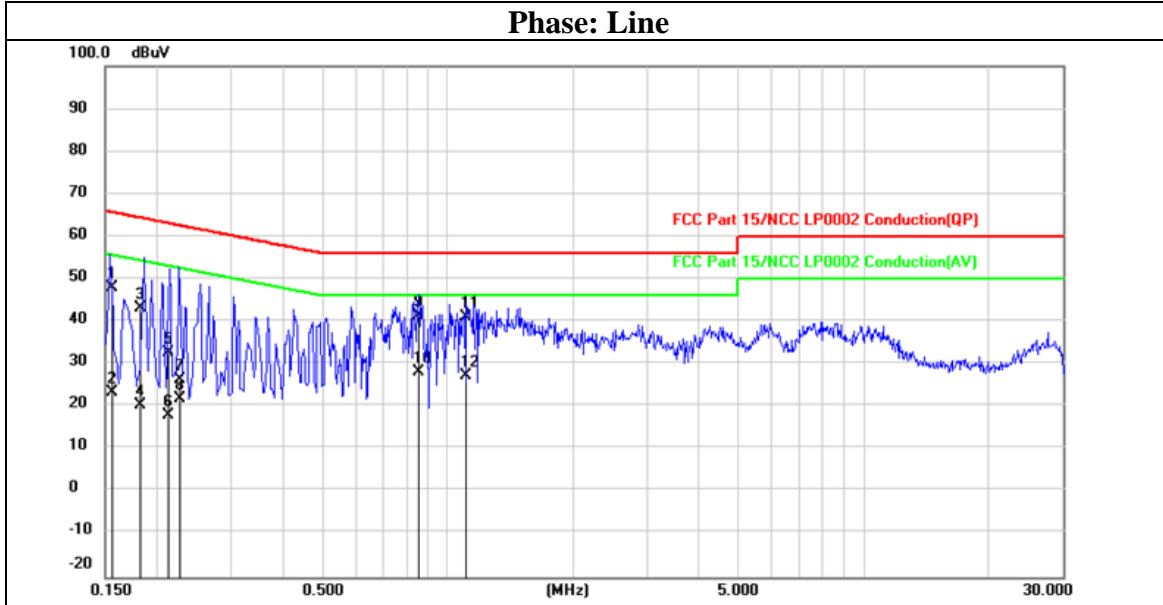


**Note: 1.Support units were connected to second LISN.**

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

### Test Data

Mode	11n20_TX2412	Channel	1
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1562	28.47	19.53	48.00	65.66	-17.66	QP
2	0.1562	3.73	19.53	23.26	55.66	-32.40	AVG
3	0.1824	23.69	19.53	43.22	64.38	-21.16	QP
4	0.1824	0.94	19.53	20.47	54.38	-33.91	AVG
5	0.2119	13.12	19.53	32.65	63.13	-30.48	QP
6	0.2119	-1.59	19.53	17.94	53.13	-35.19	AVG
7	0.2268	6.84	19.53	26.37	62.57	-36.20	QP
8	0.2268	2.41	19.53	21.94	52.57	-30.63	AVG
9	0.8536	21.90	19.56	41.46	56.00	-14.54	QP
10	0.8536	8.61	19.56	28.17	46.00	-17.83	AVG
11	1.1097	21.60	19.56	41.16	56.00	-14.84	QP
12	1.1097	7.72	19.56	27.28	46.00	-18.72	AVG

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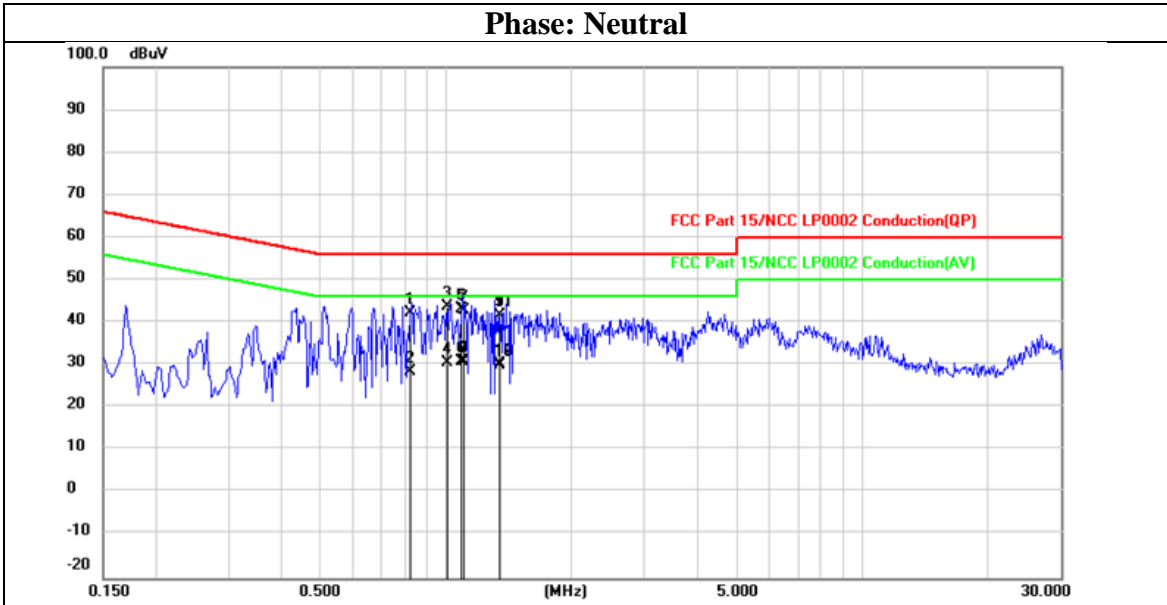
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Mode	11n20_TX2412	Channel	1
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.8229	22.74	19.56	42.30	56.00	-13.70	QP
2	0.8229	8.98	19.56	28.54	46.00	-17.46	AVG
3	1.0044	24.33	19.56	43.89	56.00	-12.11	QP
4	1.0044	11.12	19.56	30.68	46.00	-15.32	AVG
5	1.0895	23.71	19.56	43.27	56.00	-12.73	QP
6	1.0895	11.38	19.56	30.94	46.00	-15.06	AVG
7	1.1095	23.23	19.56	42.79	56.00	-13.21	QP
8	1.1095	11.44	19.56	31.00	46.00	-15.00	AVG
9	1.3401	22.05	19.56	41.61	56.00	-14.39	QP
10	1.3401	10.32	19.56	29.88	46.00	-16.12	AVG
11	1.3535	22.22	19.56	41.78	56.00	-14.22	QP
12	1.3535	10.69	19.56	30.25	46.00	-15.75	AVG

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