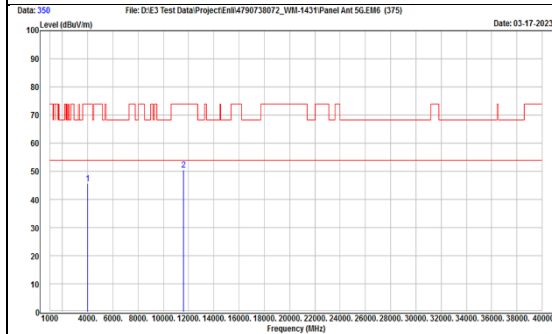


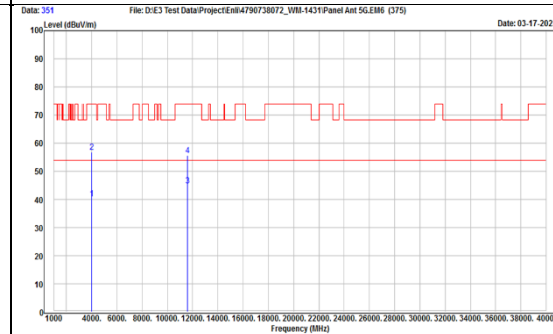
Mode	802.11ax(HE40)	Channel	159
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	45.44	0.05	45.49	74	-28.51	PK
	@	5795	93.6	20.46	114.06	N/A	N/A	PK
		5878.5	50.93	20.68	71.61	102.6	-30.99	PK
		5927	41.15	20.73	61.88	68.2	-6.32	PK
	*	11590	31.9	18.58	50.48	74	-23.52	PK
Vertical		3992	56.72	0.05	56.77	74	-17.23	PK
		3992	40.1	0.05	40.15	54	-13.85	AVG
	@	5795	87.54	20.46	108	N/A	N/A	PK
		5880	47.02	20.69	67.71	101.49	-33.78	PK
		5955.5	40.08	20.76	60.84	68.2	-7.36	PK
		11590	36.95	18.58	55.53	74	-18.47	PK
		11590	26.38	18.58	44.96	54	-9.04	AVG

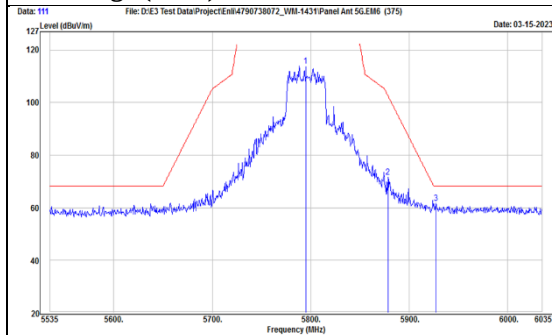
TX, 802.11ax(HE40) (Ch 159) Radiated Spurious Emission, Horizontal



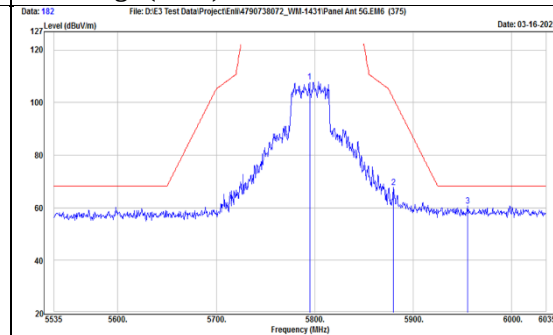
TX, 802.11ax(HE40) (Ch 159) Radiated Spurious Emission, Vertical



TX, 802.11ax(HE40) (Ch 159) Band Edge (Peak), Horizontal



TX, 802.11ax(HE40) (Ch 159) Band Edge (Peak), Vertical



Mode	802.11ax(HE80)	Channel	42
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2037	50	-6.01	43.99	68.2	-24.21	PK
	*	3992	45.24	0.05	45.29	74	-28.71	PK
		5138.95	33.78	19.22	53	54	-1	AVG
		5144.9	43.03	19.22	62.25	74	-11.75	PK
	@	5210	83.25	19.07	102.32	N/A	N/A	PK
	@	5210	73.55	19.07	92.62	N/A	N/A	AVG
	*	10420	29.95	17.4	47.35	68.2	-20.85	PK
Vertical		2003	48.33	-6.21	42.12	68.2	-26.08	PK
		3992	55.33	0.05	55.38	74	-18.62	PK
		3992	37.2	0.05	37.25	54	-16.75	AVG
		5070.7	41.61	19.09	60.7	74	-13.3	PK
		5139.65	30.64	19.22	49.86	54	-4.14	AVG
	@	5210	76.1	19.07	95.17	N/A	N/A	PK
	@	5210	66.89	19.07	85.96	N/A	N/A	AVG
	*	10420	30.79	17.4	48.19	68.2	-20.01	PK

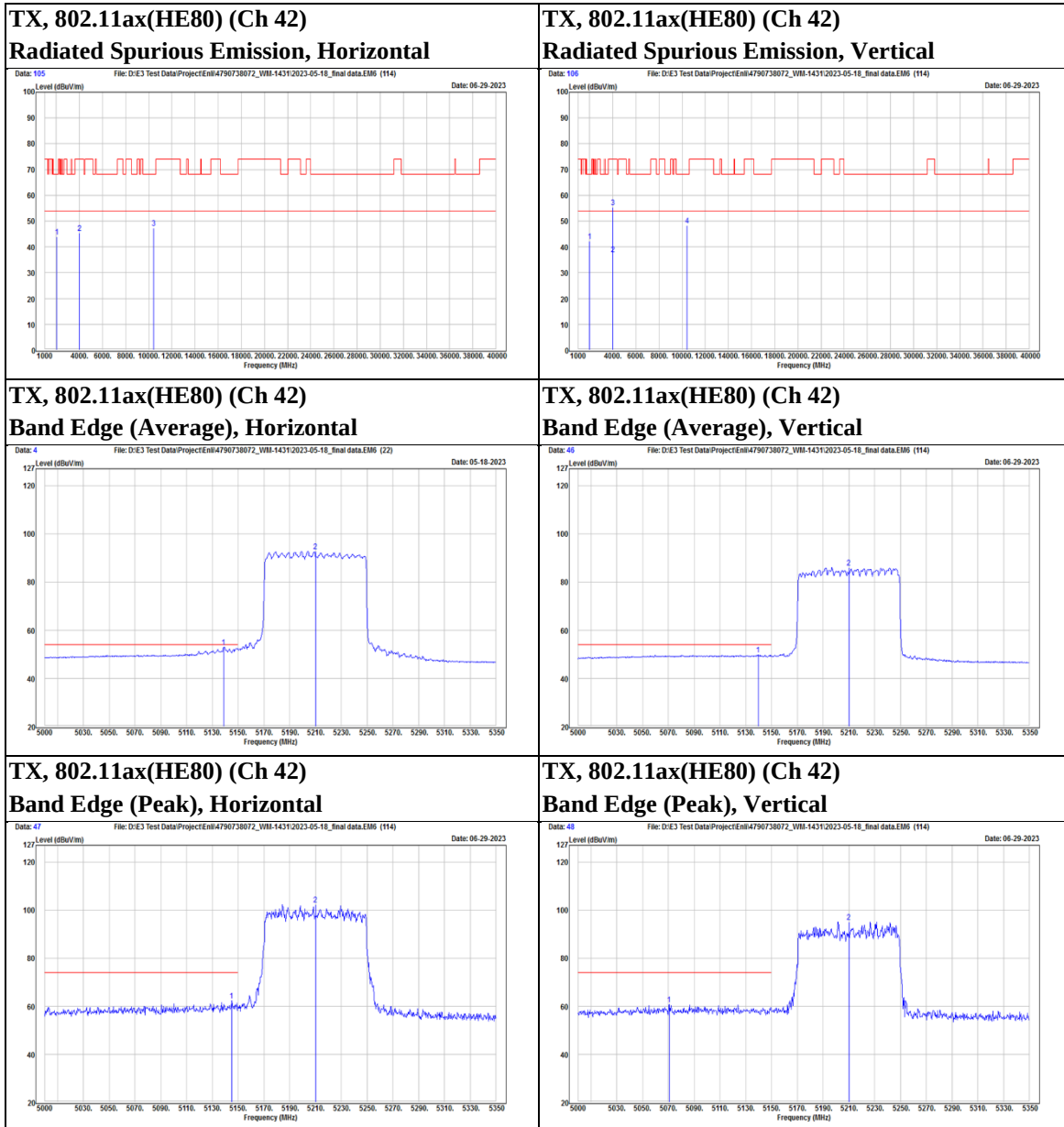
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Mode	802.11ax(HE80)	Channel	58
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		2037	50.08	-6.01	44.07	68.2	-24.13	PK
	*	3992	46.2	0.05	46.25	74	-27.75	PK
	@	5290	82.76	18.77	101.53	N/A	N/A	PK
	@	5290	74.3	18.77	93.07	N/A	N/A	AVG
		5351.1	33.13	18.71	51.84	54	-2.16	AVG
		5368.8	40.85	18.86	59.71	74	-14.29	PK
	*	10580	30.92	17.68	48.6	68.2	-19.6	PK
Vertical		2037	47.62	-6.01	41.61	68.2	-26.59	PK
		3992	55.93	0.05	55.98	74	-18.02	PK
		3992	37.73	0.05	37.78	54	-16.22	AVG
	@	5290	77.09	18.77	95.86	N/A	N/A	PK
	@	5290	68.44	18.77	87.21	N/A	N/A	AVG
		5453.4	40	19.63	59.63	74	-14.37	PK
		5459.1	28.55	19.64	48.19	54	-5.81	AVG
	*	10580	30.12	17.68	47.8	68.2	-20.4	PK

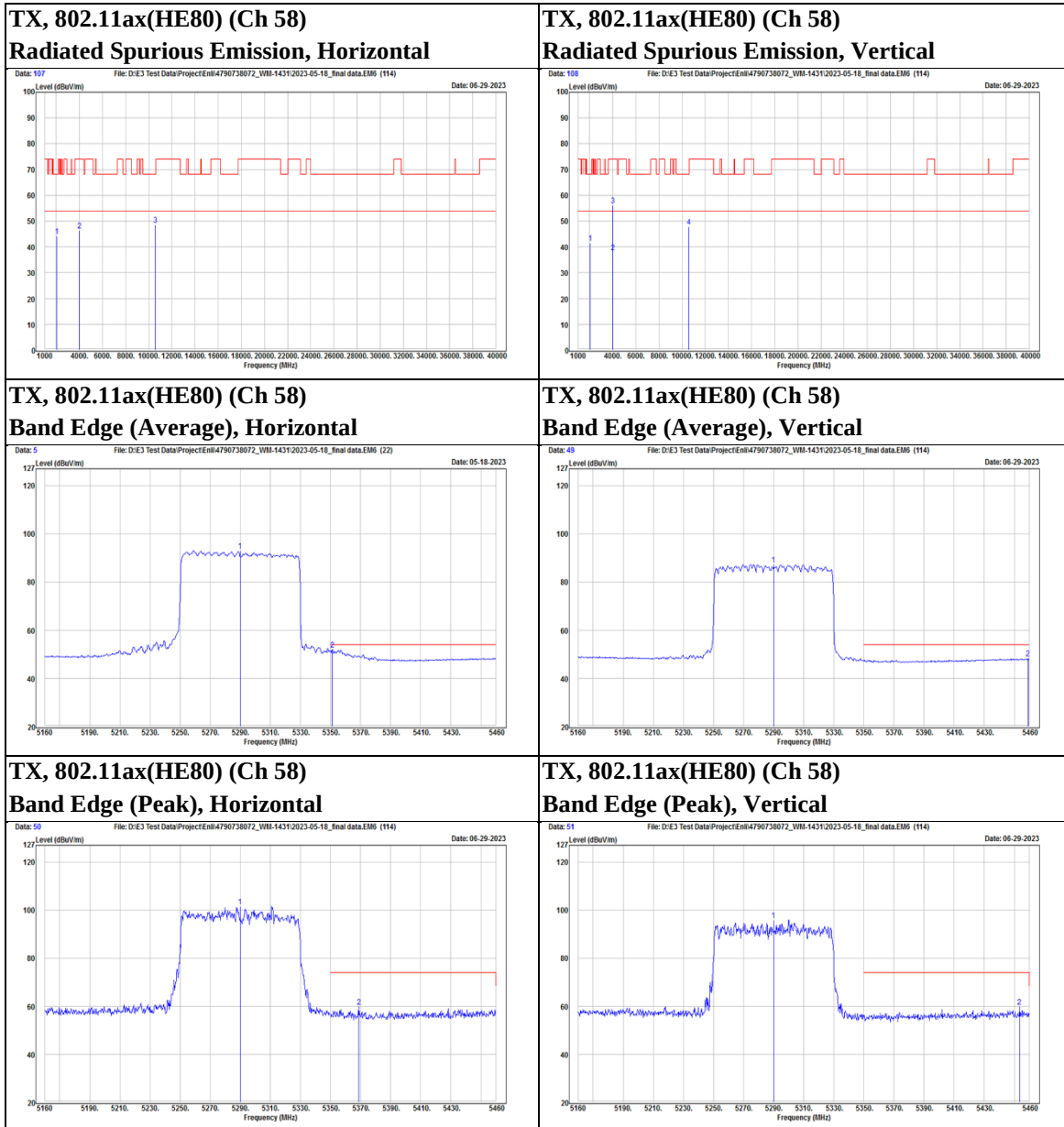
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Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1



Mode	802.11ax(HE80)	Channel	106
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2037	50.02	-6.01	44.01	68.2	-24.19	PK
	*	3992	47.17	0.05	47.22	74	-26.78	PK
		5458.45	41.47	19.64	61.11	74	-12.89	PK
		5458.8	33.48	19.64	53.12	54	-0.88	AVG
		5462.3	44.16	19.64	63.8	68.2	-4.4	PK
	@	5530	83.1	19.61	102.71	N/A	N/A	PK
	@	5530	75.27	19.61	94.88	N/A	N/A	AVG
	*	11060	30.29	18.15	48.44	74	-25.56	PK
Vertical		2003	48.22	-6.21	42.01	68.2	-26.19	PK
		3992	55.59	0.05	55.64	74	-18.36	PK
		3992	31.15	0.05	31.2	54	-22.8	AVG
		5445.5	39.48	19.58	59.06	74	-14.94	PK
		5458.45	29.01	19.64	48.65	54	-5.35	AVG
		5466.5	38.25	19.65	57.9	68.2	-10.3	PK
	@	5530	75.5	19.61	95.11	N/A	N/A	PK
	@	5530	67.67	19.61	87.28	N/A	N/A	AVG
	*	11060	30.24	18.15	48.39	74	-25.61	PK

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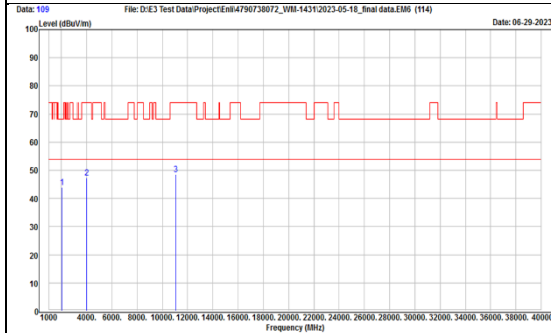
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

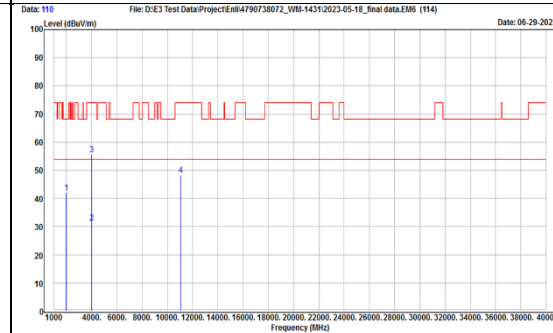
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Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

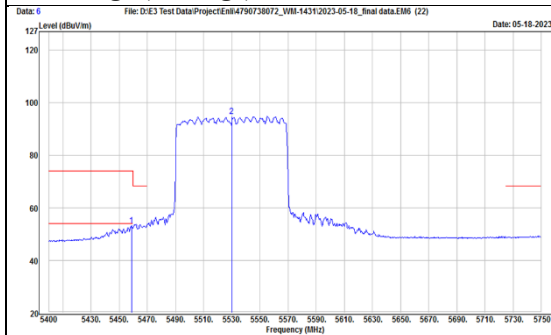
TX, 802.11ax(HE80) (Ch 106)
Radiated Spurious Emission, Horizontal



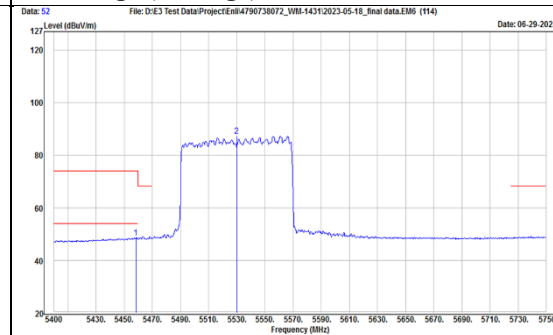
TX, 802.11ax(HE80) (Ch 106)
Radiated Spurious Emission, Vertical



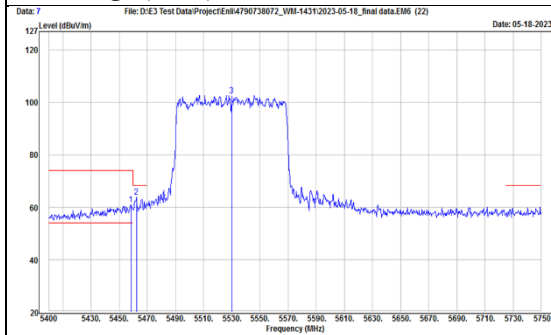
TX, 802.11ax(HE80) (Ch 106)
Band Edge (Average), Horizontal



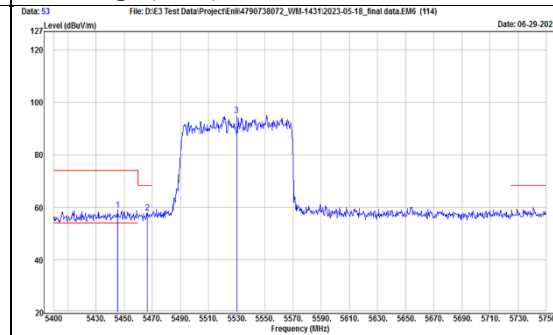
TX, 802.11ax(HE80) (Ch 106)
Band Edge (Average), Vertical



TX, 802.11ax(HE80) (Ch 106)
Band Edge (Peak), Horizontal



TX, 802.11ax(HE80) (Ch 106)
Band Edge (Peak), Vertical



Mode	802.11ax(HE80)	Channel	122
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	43.8	0.05	43.85	74	-30.15	PK
		5455.65	45.07	19.63	64.7	74	-9.3	PK
		5459.85	34.27	19.64	53.91	54	-0.09	AVG
		5464.4	46.42	19.64	66.06	68.2	-2.14	PK
	@	5610	89.01	19.6	108.61	N/A	N/A	PK
	@	5610	78.06	19.6	97.66	N/A	N/A	AVG
		5725.5	46.72	19.83	66.55	68.2	-1.65	PK
	*	11220	30.89	17.92	48.81	74	-25.19	PK
Vertical		3992	55.99	0.05	56.04	74	-17.96	PK
		3992	39.33	0.05	39.38	54	-14.62	AVG
		5417.85	40.18	19.32	59.5	74	-14.5	PK
		5459.5	27.82	19.64	47.46	54	-6.54	AVG
		5467.55	38.66	19.65	58.31	68.2	-9.89	PK
	@	5610	83.07	19.6	102.67	N/A	N/A	PK
	@	5610	73.87	19.6	93.47	N/A	N/A	AVG
		5747.55	39.49	20.03	59.52	68.2	-8.68	PK
	*	11220	31.32	17.92	49.24	74	-24.76	PK

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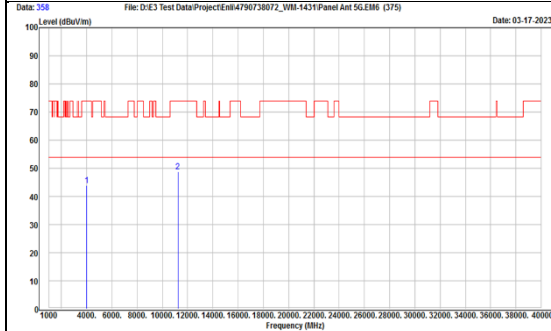
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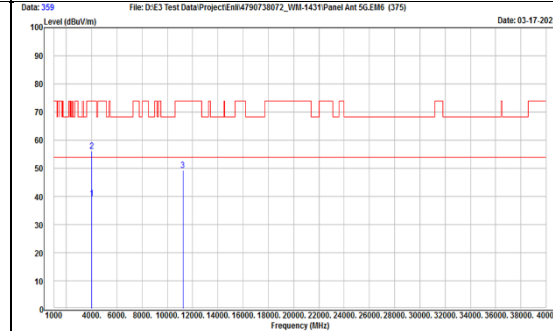
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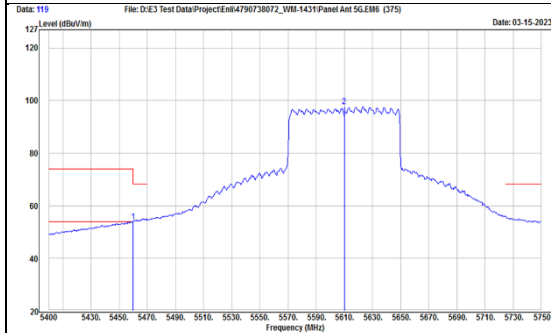
TX, 802.11ax(HE80) (Ch 122)
Radiated Spurious Emission, Horizontal



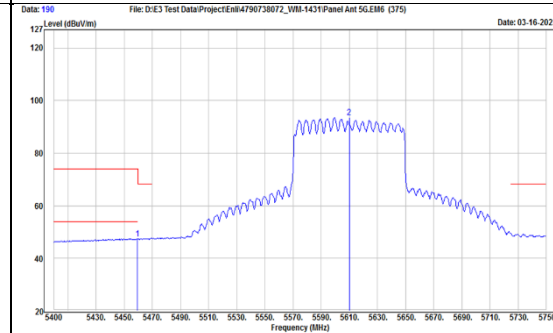
TX, 802.11ax(HE80) (Ch 122)
Radiated Spurious Emission, Vertical



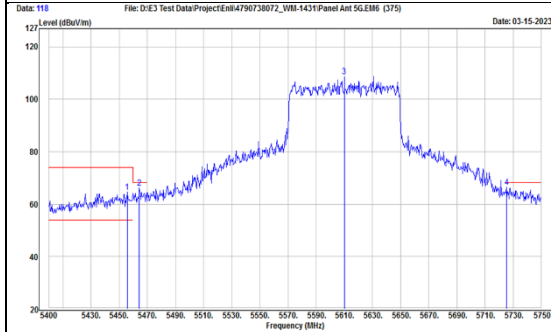
TX, 802.11ax(HE80) (Ch 122)
Band Edge (Average), Horizontal



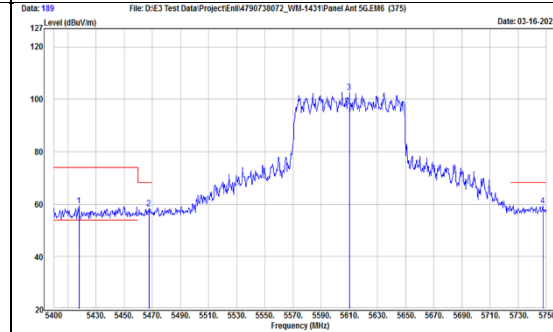
TX, 802.11ax(HE80) (Ch 122)
Band Edge (Average), Vertical



TX, 802.11ax(HE80) (Ch 122)
Band Edge (Peak), Horizontal

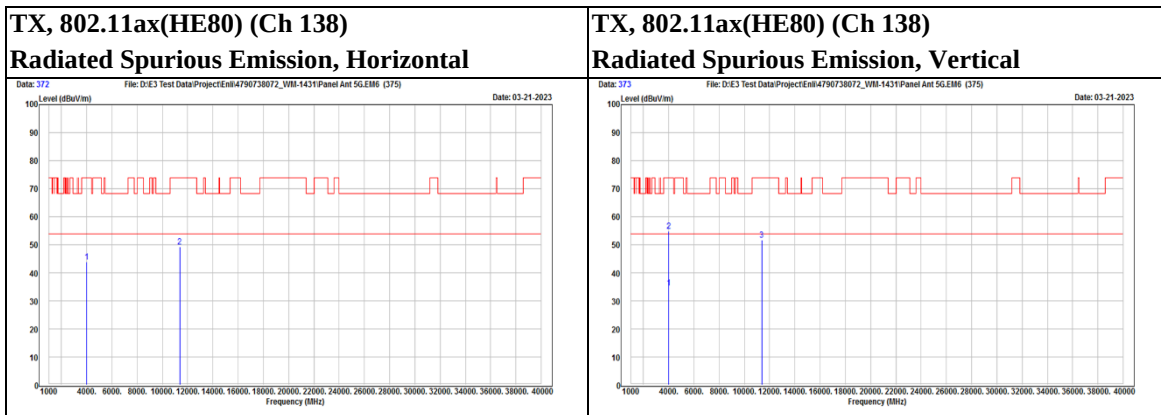


TX, 802.11ax(HE80) (Ch 122)
Band Edge (Peak), Vertical



Mode	802.11ax(HE80)	Channel	138
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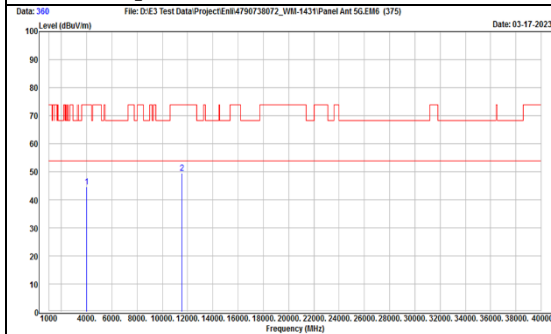
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	43.79	0.05	43.84	74	-30.16	PK
	*	11380	30.88	18.39	49.27	74	-24.73	PK
Vertical		3992	54.93	0.05	54.98	74	-19.02	PK
		3992	34.47	0.05	34.52	54	-19.48	AVG
	*	11380	33.3	18.39	51.69	74	-22.31	PK



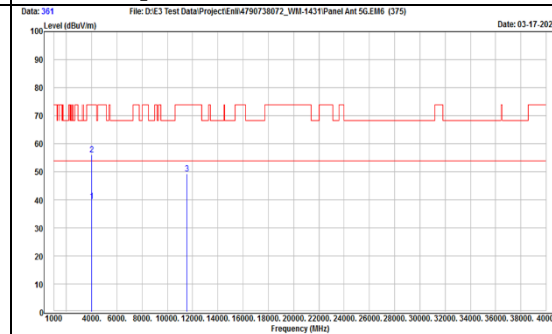
Mode	802.11ax(HE80)	Channel	155
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	3992	44.6	0.05	44.65	74	-29.35	PK
		5646.5	48.21	19.65	67.86	68.2	-0.34	PK
		5697.5	60.49	19.6	80.09	103.36	-23.27	PK
	@	5775	87.28	20.28	107.56	N/A	N/A	PK
		5877	48.66	20.68	69.34	103.71	-34.37	PK
		5928.5	42.2	20.73	62.93	68.2	-5.27	PK
	*	11550	30.73	18.73	49.46	74	-24.54	PK
Vertical		3992	56.14	0.05	56.19	74	-17.81	PK
		3992	39.58	0.05	39.63	54	-14.37	AVG
		5595.5	41.02	19.59	60.61	68.2	-7.59	PK
	@	5697.5	50.58	19.6	70.18	103.36	-33.18	PK
		5775	82.98	20.28	103.26	N/A	N/A	PK
		5875.5	44.39	20.68	65.07	104.83	-39.76	PK
		5931	39.96	20.73	60.69	68.2	-7.51	PK
		* 11550	30.45	18.73	49.18	74	-24.82	PK

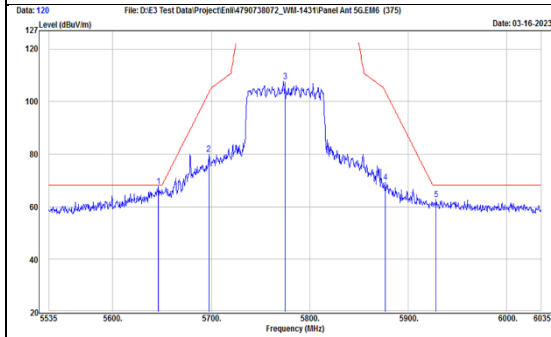
TX, 802.11ax(HE80) (Ch 155) Radiated Spurious Emission, Horizontal



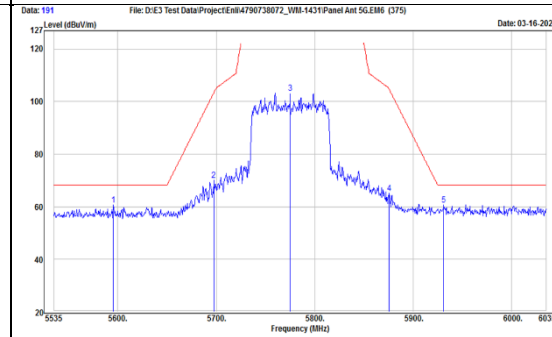
TX, 802.11ax(HE80) (Ch 155) Radiated Spurious Emission, Vertical



TX, 802.11ax(HE80) (Ch 155) Band Edge (Peak), Horizontal



TX, 802.11ax(HE80) (Ch 155) Band Edge (Peak), Vertical



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Mode	802.11ax(HE160)	Channel	50
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2037	49.81	-6.01	43.8	68.2	-24.4	PK
	*	3992	45.19	0.05	45.24	74	-28.76	PK
		5128.8	42.18	19.24	61.42	74	-12.58	PK
		5144.9	34	19.22	53.22	54	-0.78	AVG
	@	5250	80.19	18.95	99.14	N/A	N/A	PK
	@	5250	70.44	18.95	89.39	N/A	N/A	AVG
		5353.74	32.75	18.73	51.48	54	-2.52	AVG
		5414.46	39.75	19.3	59.05	74	-14.95	PK
	*	10500	29.68	17.61	47.29	68.2	-20.91	PK
Vertical		2003	47.92	-6.21	41.71	68.2	-26.49	PK
		3992	55.08	0.05	55.13	74	-18.87	PK
		3992	36.84	0.05	36.89	54	-17.11	AVG
		5061.64	41.49	19.04	60.53	74	-13.47	PK
		5111.78	30.53	19.25	49.78	54	-4.22	AVG
	@	5250	73.52	18.95	92.47	N/A	N/A	PK
	@	5250	64.67	18.95	83.62	N/A	N/A	AVG
		5450.8	28.51	19.62	48.13	54	-5.87	AVG
		5457.24	39.17	19.63	58.8	74	-15.2	PK
	*	10500	29.75	17.61	47.36	68.2	-20.84	PK

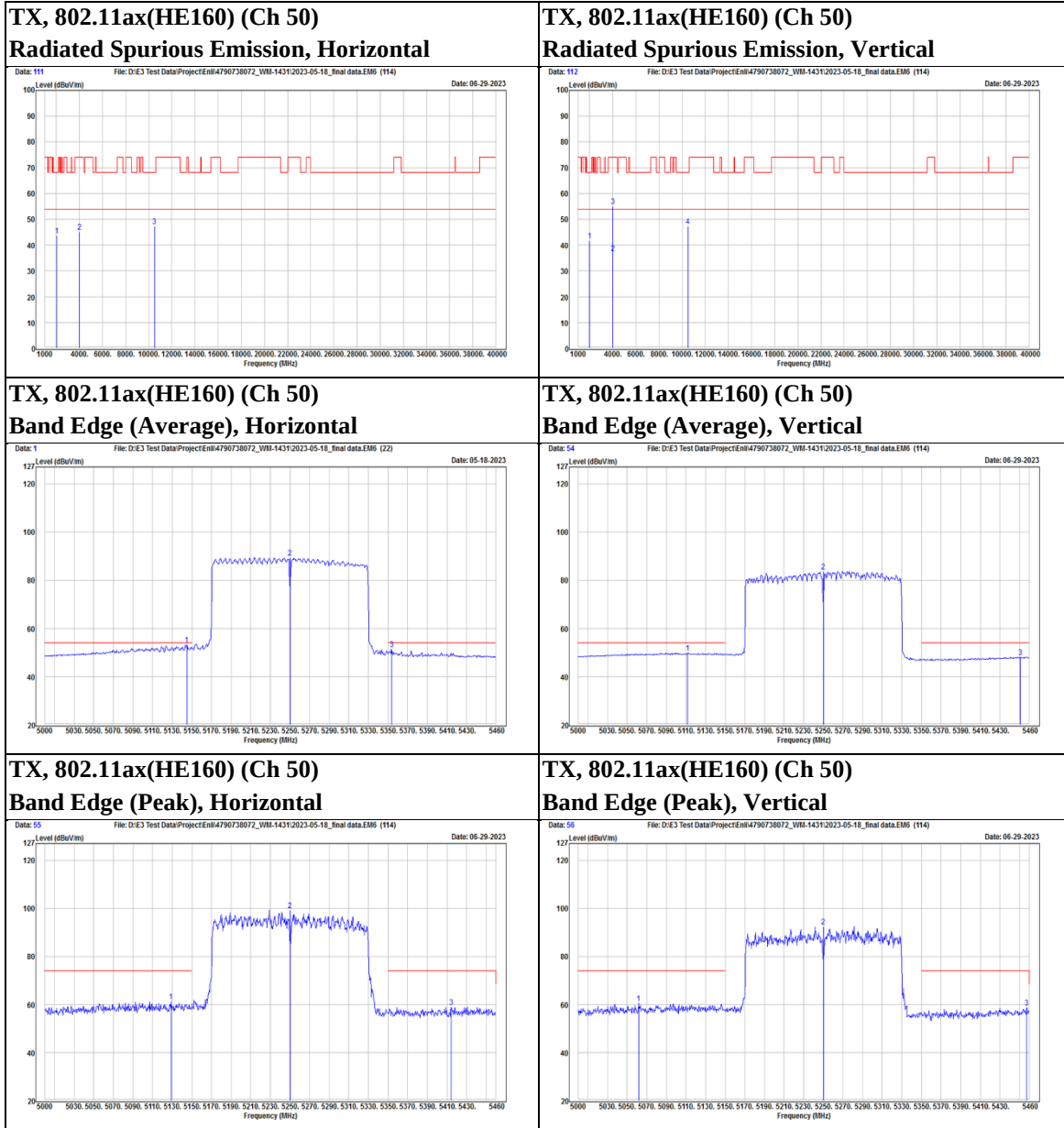
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Mode	802.11ax(HE160)	Channel	114
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2037	50.59	-6.01	44.58	68.2	-23.62	PK
	*	3992	46.14	0.05	46.19	74	-27.81	PK
		5432.55	46.47	19.47	65.94	74	-8.06	PK
		5456	33.12	19.63	52.75	54	-1.25	AVG
		5466.15	42.08	19.65	61.73	68.2	-6.47	PK
	@	5570	80.84	19.56	100.4	N/A	N/A	PK
	@	5570	71.76	19.56	91.32	N/A	N/A	AVG
		5725	42.24	19.83	62.07	68.2	-6.13	PK
	*	11140	30.75	18.14	48.89	74	-25.11	PK
Vertical		2003	48.68	-6.21	42.47	68.2	-25.73	PK
		3992	54.98	0.05	55.03	74	-18.97	PK
		3992	36.78	0.05	36.83	54	-17.17	AVG
		5421.7	39.77	19.36	59.13	74	-14.87	PK
		5447.95	29.07	19.6	48.67	54	-5.33	AVG
		5468.25	38.85	19.65	58.5	68.2	-9.7	PK
	@	5570	74.21	19.56	93.77	N/A	N/A	PK
	@	5570	64.8	19.56	84.36	N/A	N/A	AVG
		5746.15	39.61	20.02	59.63	68.2	-8.57	PK
	*	11140	31.13	18.14	49.27	74	-24.73	PK

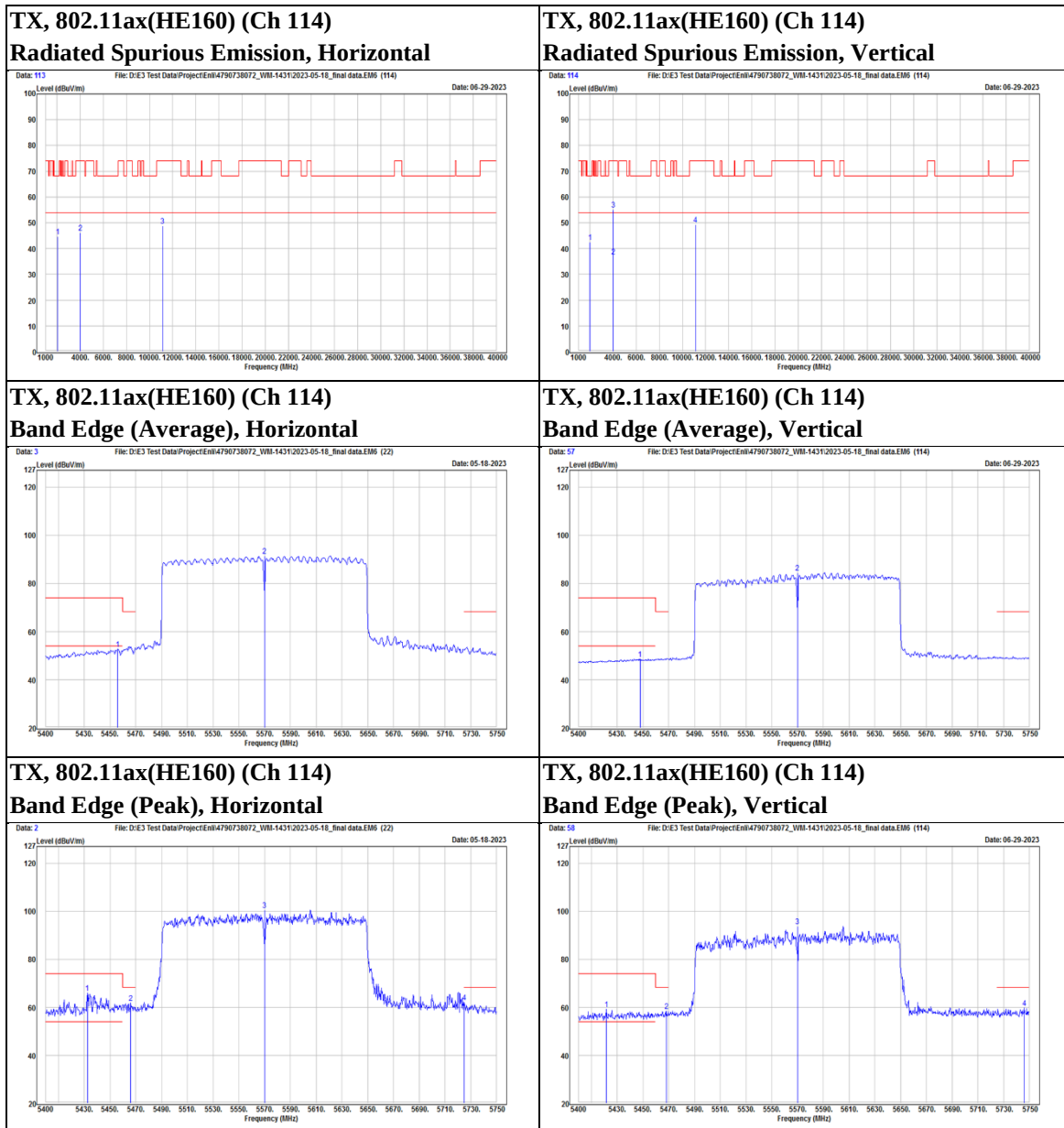
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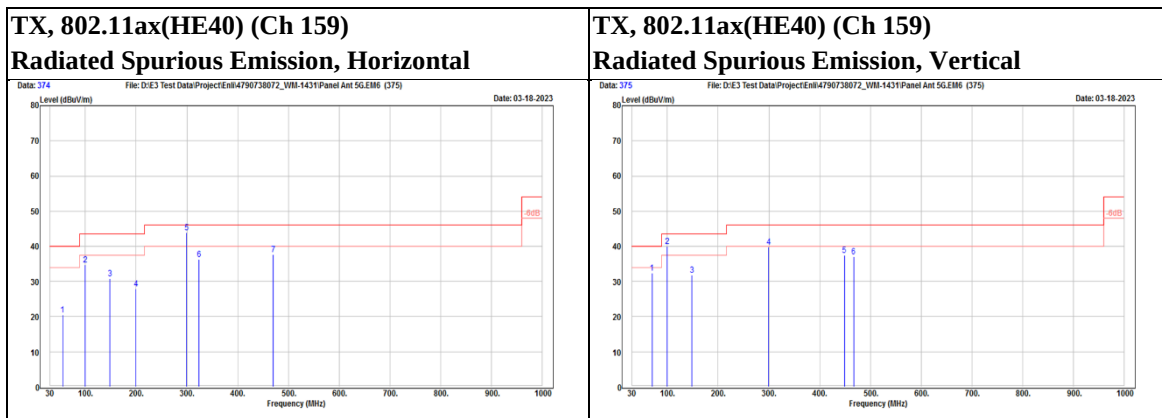
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Below 1 GHz

Mode	802.11ax(HE40)	Channel	159
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		55.22	32.43	-11.94	20.49	40	-19.51	PK
		99.84	51.17	-16.35	34.82	43.5	-8.68	PK
		148.34	42.82	-11.95	30.87	43.5	-12.63	PK
		199.75	42.02	-14.2	27.82	43.5	-15.68	PK
		299.66	54.57	-10.7	43.87	46	-2.13	PK
		323.91	46.22	-9.98	36.24	46	-9.76	PK
		470.38	43.38	-5.78	37.6	46	-8.4	PK
Vertical		69.77	46.63	-14.16	32.47	40	-7.53	PK
		99.84	56.32	-16.35	39.97	43.5	-3.53	PK
		148.34	43.69	-11.95	31.74	43.5	-11.76	PK
		299.66	50.54	-10.7	39.84	46	-6.16	PK
		449.04	43.76	-6.3	37.46	46	-8.54	PK
		467.47	42.85	-5.84	37.01	46	-8.99	PK



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.

9.8. 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).

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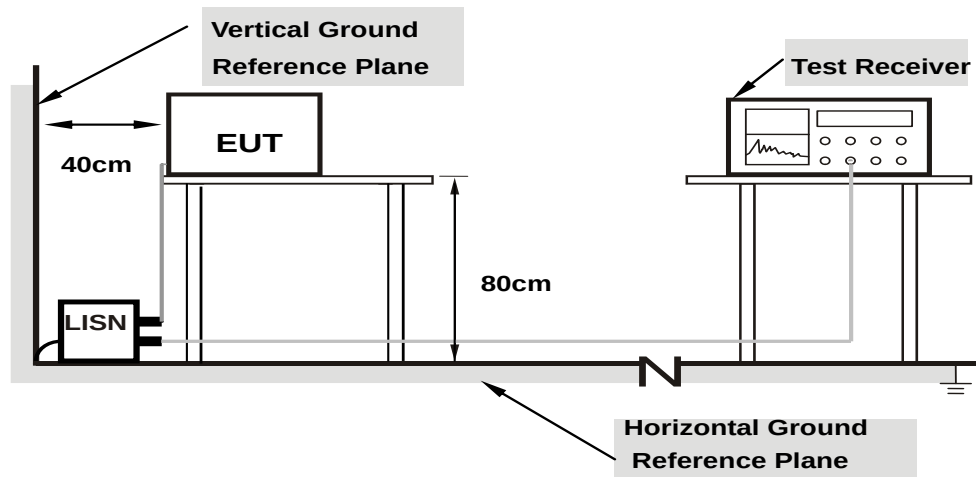
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Test Setup

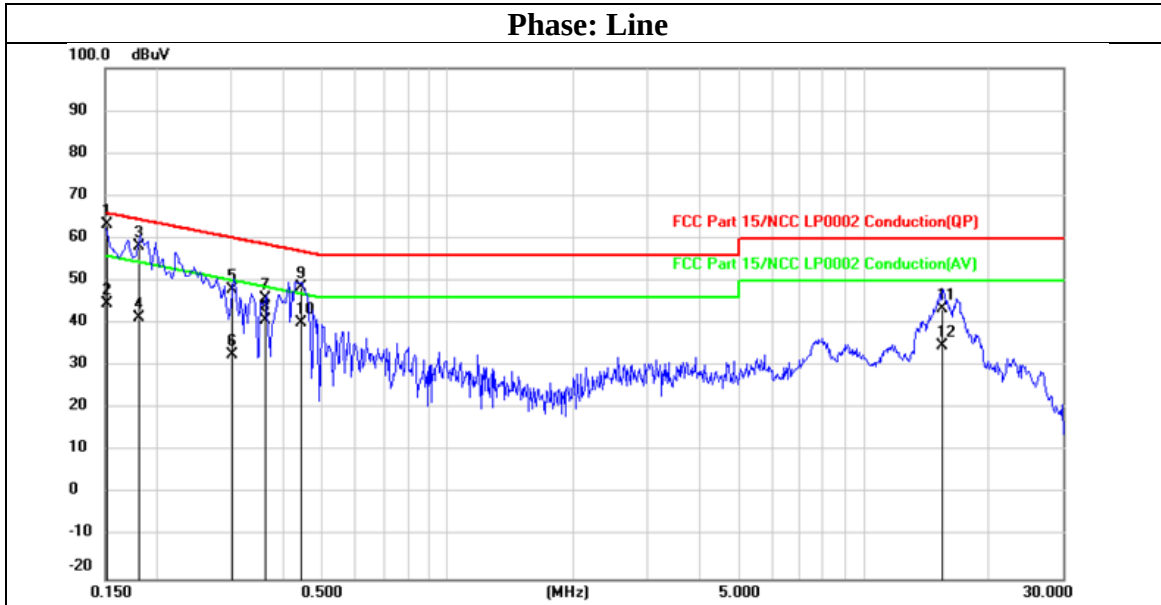


Note: 1.Support units were connected to second LISN.

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

Test Data

Mode	11ax40_TX5795	Channel	159
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1517	53.23	9.97	63.20	65.91	-2.71	QP
2	0.1517	34.73	9.97	44.70	55.91	-11.21	AVG
3	0.1802	48.08	9.96	58.04	64.48	-6.44	QP
4	0.1802	31.25	9.96	41.21	54.48	-13.27	AVG
5	0.3029	37.95	9.97	47.92	60.16	-12.24	QP
6	0.3029	22.63	9.97	32.60	50.16	-17.56	AVG
7	0.3626	35.88	9.97	45.85	58.67	-12.82	QP
8	0.3626	30.88	9.97	40.85	48.67	-7.82	AVG
9	0.4422	38.71	9.97	48.68	57.02	-8.34	QP
10	0.4422	30.25	9.97	40.22	47.02	-6.80	AVG
11	15.4705	32.95	10.39	43.34	60.00	-16.66	QP
12	15.4705	24.39	10.39	34.78	50.00	-15.22	AVG

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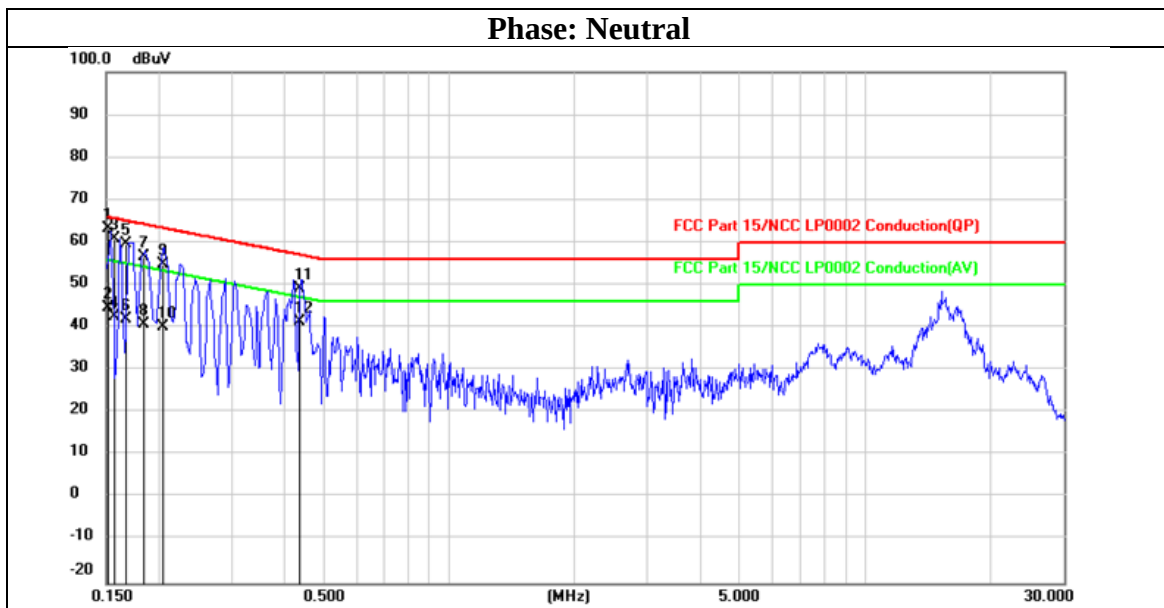
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Mode	11ax40_TX5795	Channel	159
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1511	53.17	9.99	63.16	65.94	-2.78	QP
2	0.1511	34.63	9.99	44.62	55.94	-11.32	AVG
3	0.1570	50.86	9.99	60.85	65.62	-4.77	QP
4	0.1570	32.61	9.99	42.60	55.62	-13.02	AVG
5	0.1666	49.79	9.99	59.78	65.13	-5.35	QP
6	0.1666	31.83	9.99	41.82	55.13	-13.31	AVG
7	0.1842	46.54	9.99	56.53	64.29	-7.76	QP
8	0.1842	30.83	9.99	40.82	54.29	-13.47	AVG
9	0.2047	44.80	9.99	54.79	63.42	-8.63	QP
10	0.2047	30.16	9.99	40.15	53.42	-13.27	AVG
11	0.4375	39.23	9.99	49.22	57.11	-7.89	QP
12	0.4375	31.42	9.99	41.41	47.11	-5.70	AVG

END OF REPORT

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