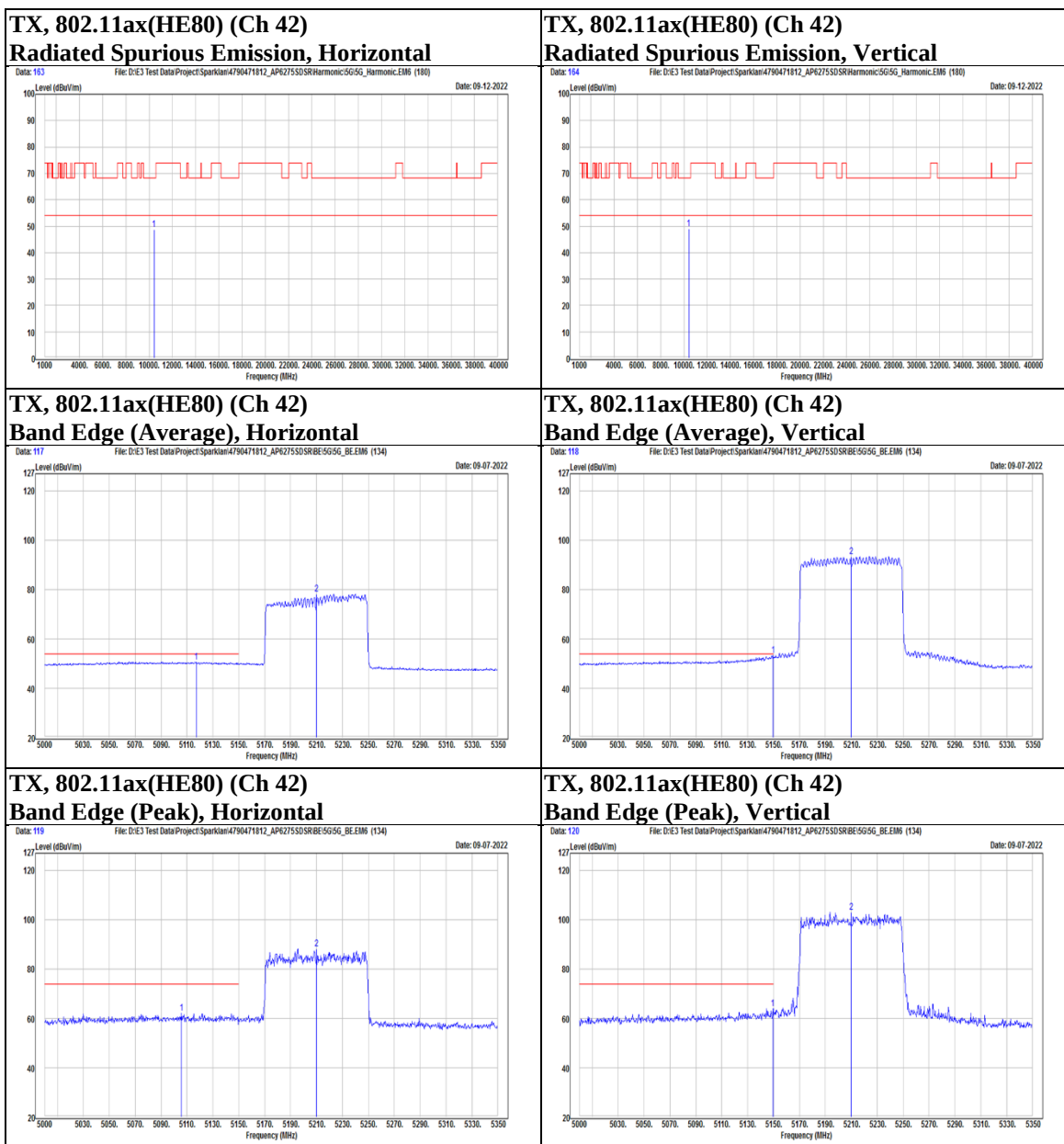




Mode	802.11ax(HE80)	Channel	58
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5290	67.19	18.79	85.98	N/A	N/A	PK
	@	5290	57.74	18.79	76.53	N/A	N/A	AVG
		5446.5	40.42	19.5	59.92	74	-14.08	PK
		5458.2	29.5	19.56	49.06	54	-4.94	AVG
	*	10580	30.24	18.04	48.28	68.2	-19.92	PK
Vertical	@	5290	84.85	18.79	103.64	N/A	N/A	PK
	@	5290	75.13	18.79	93.92	N/A	N/A	AVG
		5350.8	43.28	19.01	62.29	74	-11.71	PK
		5356.2	33.98	19.04	53.02	54	-0.98	AVG
	*	10580	30.27	18.04	48.31	68.2	-19.89	PK

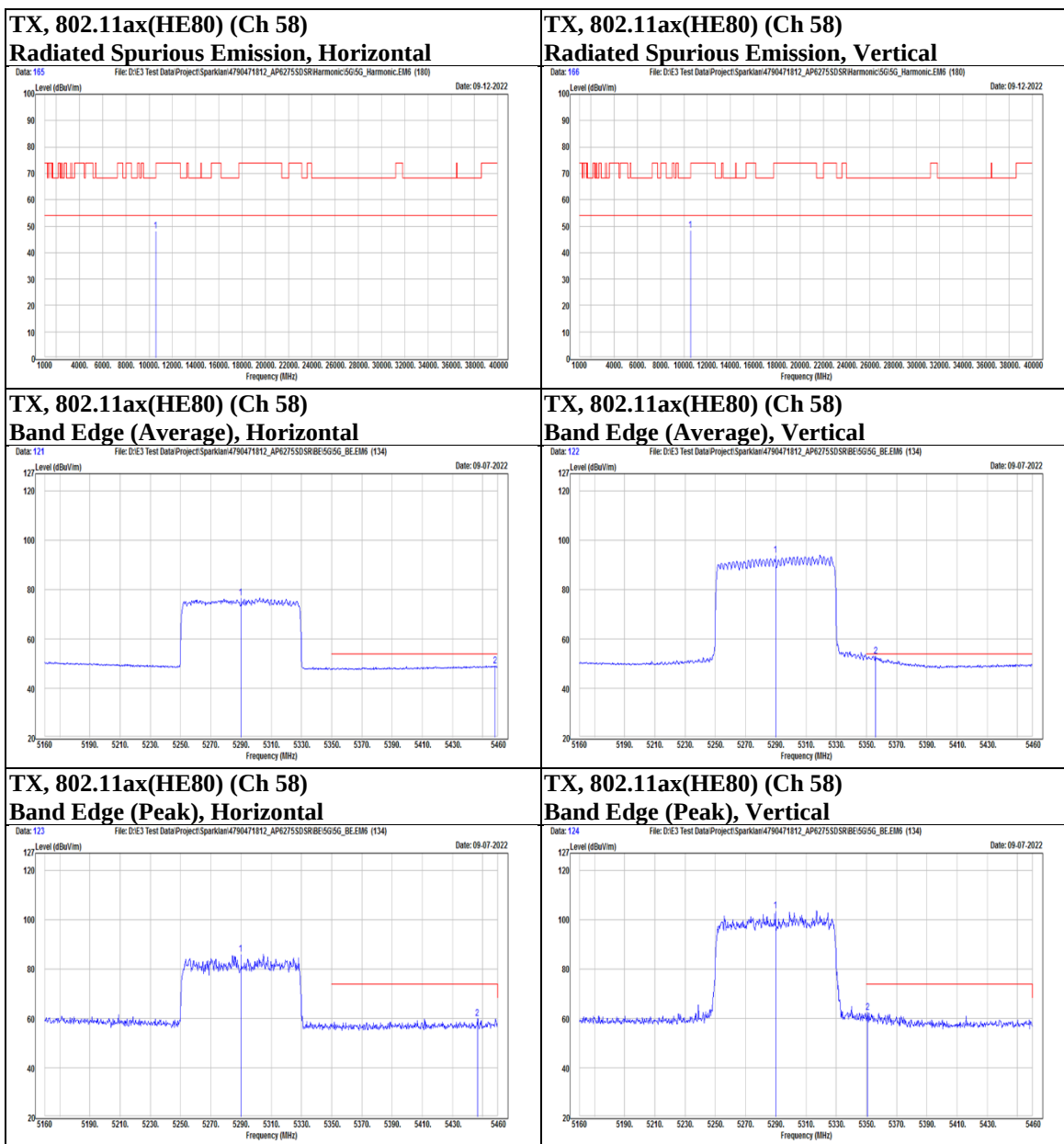
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Mode	802.11ax(HE80)	Channel	106
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5445.85	40.04	19.5	59.54	74	-14.46	PK
		5459.15	29.51	19.57	49.08	54	-4.92	AVG
		5464.4	39.13	19.59	58.72	68.2	-9.48	PK
	@	5530	68.09	19.81	87.9	N/A	N/A	PK
	@	5530	57.18	19.81	76.99	N/A	N/A	AVG
	*	11060	31.31	18.44	49.75	74	-24.25	PK
Vertical		5439.2	42.86	19.47	62.33	74	-11.67	PK
		5454.6	32.63	19.54	52.17	54	-1.83	AVG
		5468.25	44.55	19.61	64.16	68.2	-4.04	PK
	@	5530	82.39	19.81	102.2	N/A	N/A	PK
	@	5530	73.18	19.81	92.99	N/A	N/A	AVG
	*	11060	30.94	18.44	49.38	74	-24.62	PK

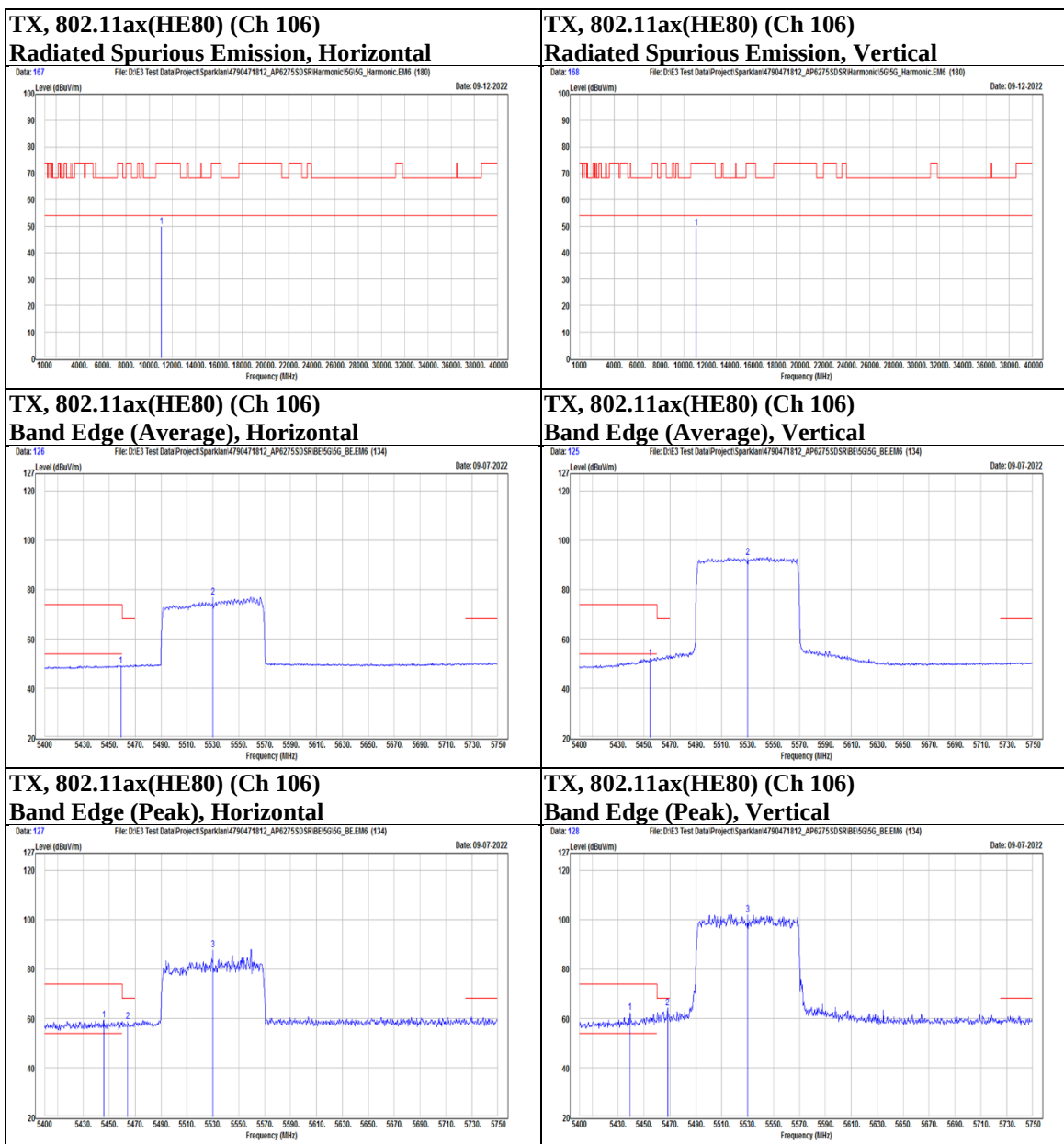
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Mode	802.11ax(HE80)	Channel	122
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5450.75	40.1	19.52	59.62	74	-14.38	PK
		5451.1	29.75	19.52	49.27	54	-4.73	AVG
		5468.25	38.97	19.61	58.58	68.2	-9.62	PK
	@	5610	71.08	19.69	90.77	N/A	N/A	PK
	@	5610	62.31	19.69	82	N/A	N/A	AVG
		5746.15	40.04	20.16	60.2	68.2	-8	PK
	*	11220	30.16	18.47	48.63	74	-25.37	PK
Vertical		5438.85	42.67	19.47	62.14	74	-11.86	PK
		5458.8	32.52	19.57	52.09	54	-1.91	AVG
		5465.8	46.15	19.6	65.75	68.2	-2.45	PK
	@	5610	88.15	19.69	107.84	N/A	N/A	PK
	@	5610	77.8	19.69	97.49	N/A	N/A	AVG
		5737.05	43.74	20.08	63.82	68.2	-4.38	PK
	*	11220	30.25	18.47	48.72	74	-25.28	PK

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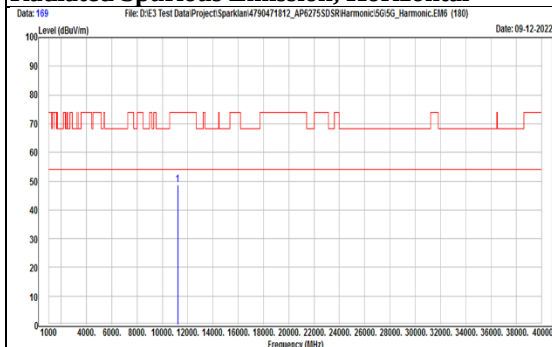
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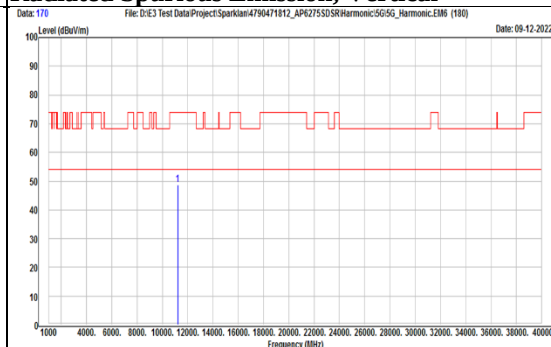
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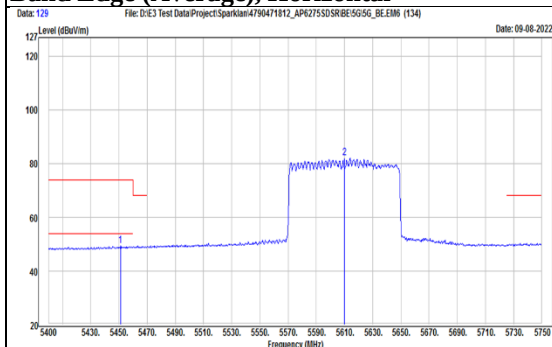
TX, 802.11ax(HE80) (Ch 122)
Radiated Spurious Emission, Horizontal



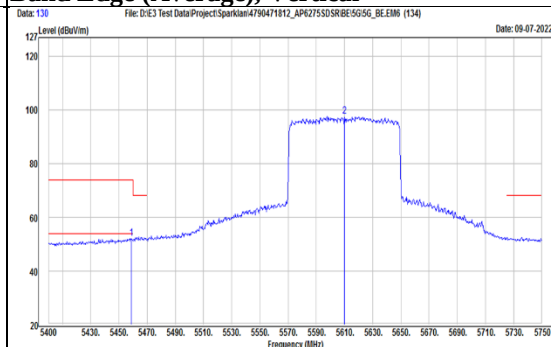
TX, 802.11ax(HE80) (Ch 122)
Radiated Spurious Emission, Vertical



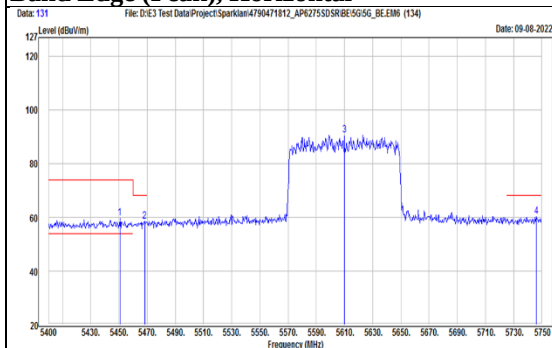
TX, 802.11ax(HE80) (Ch 122)
Band Edge (Average), Horizontal



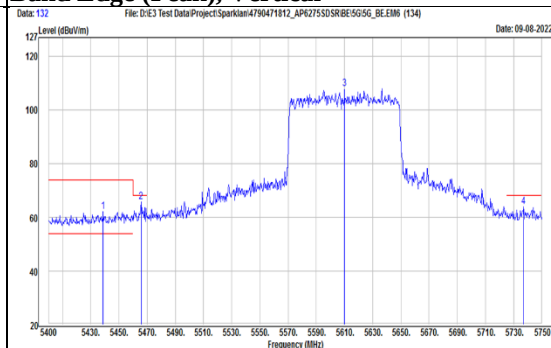
TX, 802.11ax(HE80) (Ch 122)
Band Edge (Average), Vertical



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

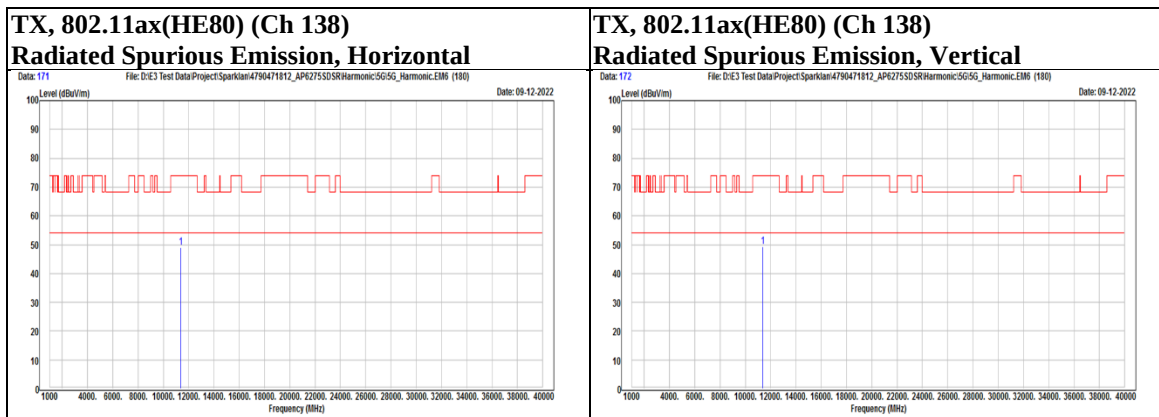


TX, 802.11ax(HE80) (Ch 122)
Band Edge (Peak), Vertical



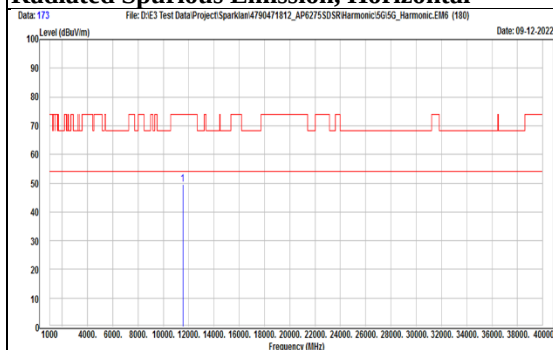
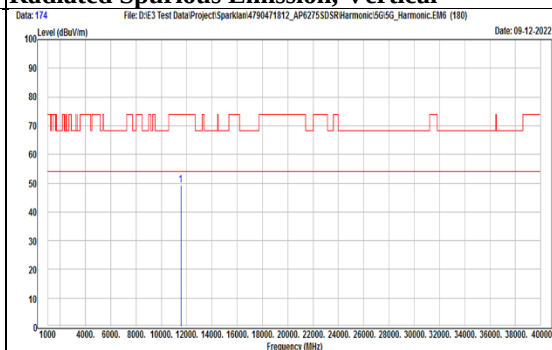
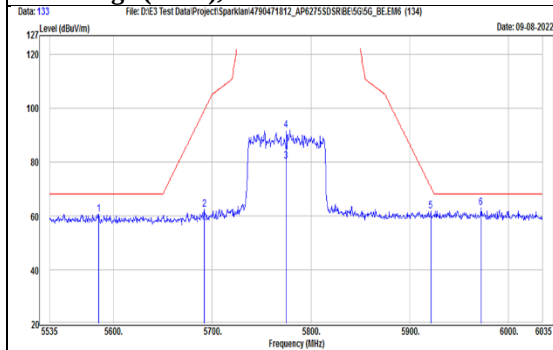
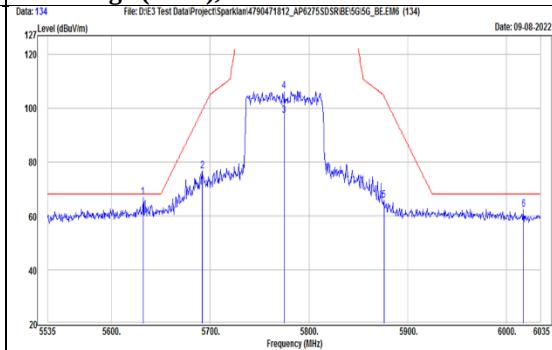
Mode	802.11ax(HE80)	Channel	138
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11380	30.33	18.76	49.09	74	-24.91	PK
Vertical	*	11380	30.52	18.76	49.28	74	-24.72	PK



Mode	802.11ax(HE80)	Channel	155
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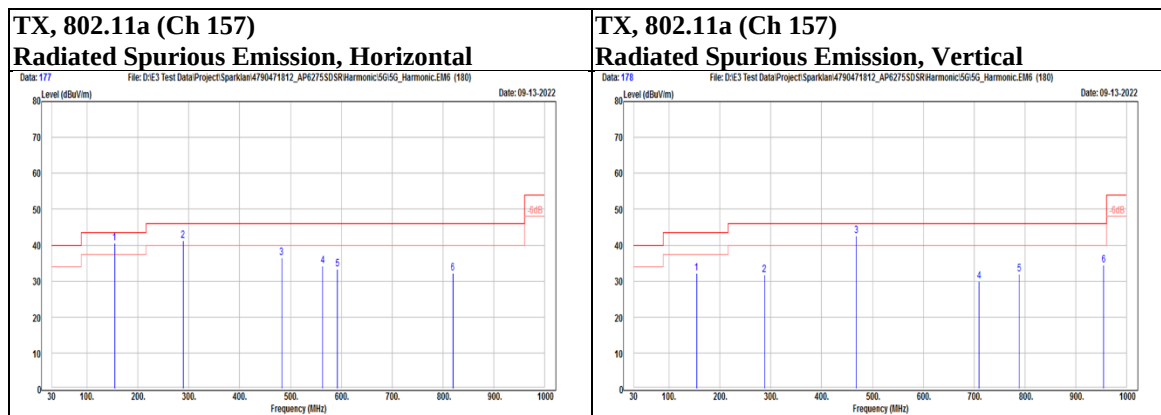
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5585	40.99	19.74	60.73	68.2	-7.47	PK
		5692	42.83	19.72	62.55	99.3	-36.75	PK
	@	5775	71.49	20.37	91.86	N/A	N/A	PK
	@	5775	60.09	20.37	80.46	N/A	N/A	AVG
		5921.5	40.87	20.96	61.83	70.78	-8.95	PK
		5972.5	42.03	20.96	62.99	68.2	-5.21	PK
	*	11550	30.35	19.16	49.51	74	-24.49	PK
Vertical		5632	47.24	19.68	66.92	68.2	-1.28	PK
		5692	56.84	19.72	76.56	99.3	-22.74	PK
	@	5775	85.95	20.37	106.32	N/A	N/A	PK
	@	5775	77.06	20.37	97.43	N/A	N/A	AVG
		5876	44.92	20.81	65.73	104.46	-38.73	PK
		6017.5	41.5	20.99	62.49	68.2	-5.71	PK
	*	11550	30.2	19.16	49.36	74	-24.64	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


Below 1 GHz

Mode	802.11a	Channel	157
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		154.16	52.03	-11.54	40.49	43.5	-3.01	PK
		288.99	52.22	-11.06	41.16	46	-4.84	PK
		482.99	42.33	-5.81	36.52	46	-9.48	PK
		563.5	38.28	-4.13	34.15	46	-11.85	PK
		592.6	36.29	-3	33.29	46	-12.71	PK
		819.58	31.51	0.72	32.23	46	-13.77	PK
Vertical		154.16	43.74	-11.54	32.2	43.5	-11.3	PK
		288.02	42.8	-11.07	31.73	46	-14.27	PK
		468.44	48.38	-5.88	42.5	46	-3.5	PK
		709.97	30.94	-1.01	29.93	46	-16.07	PK
		788.54	31.61	0.26	31.87	46	-14.13	PK
		954.41	31.24	3.26	34.5	46	-11.5	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.

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9.8. 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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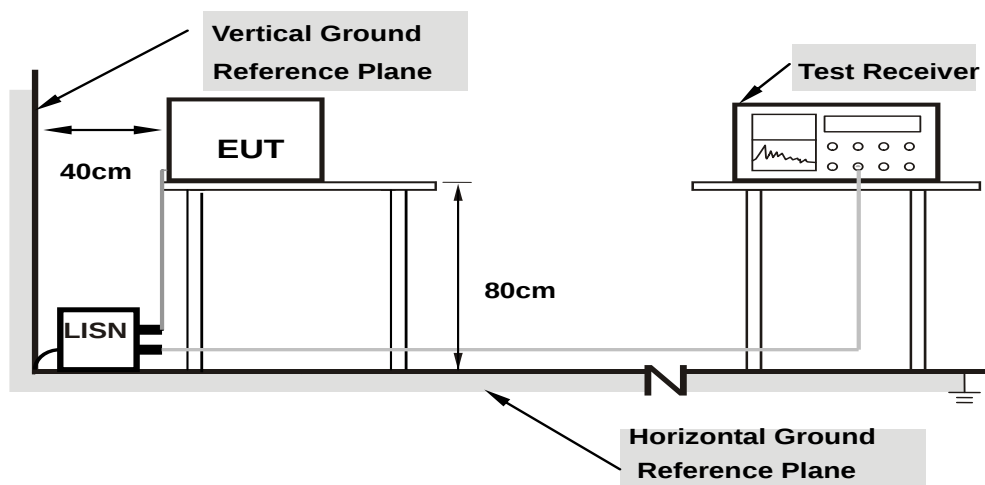
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Test Setup



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

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

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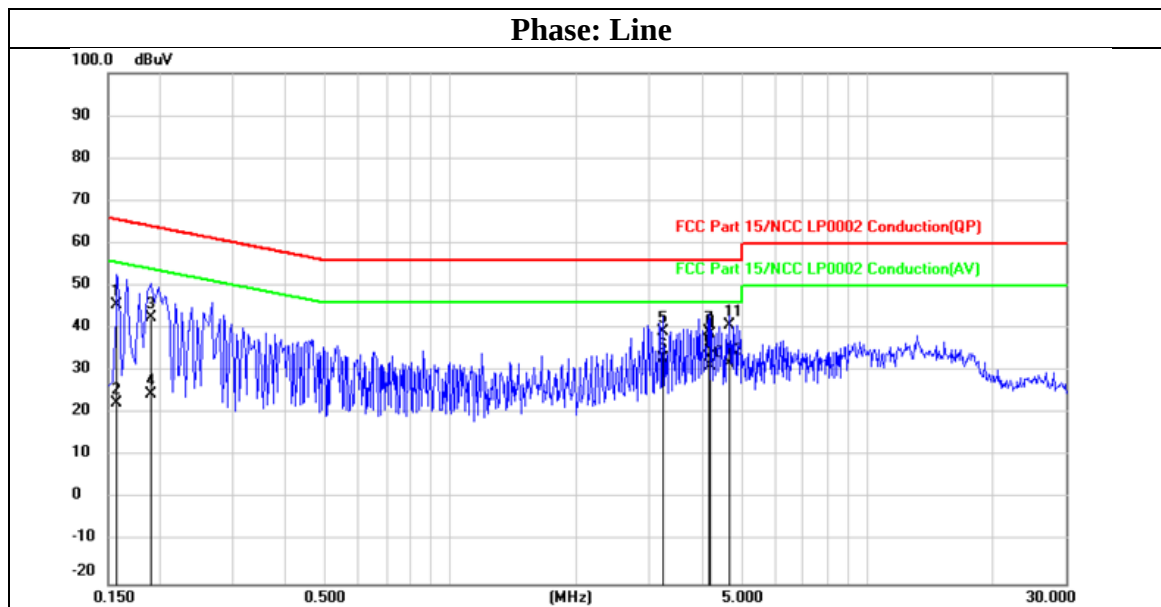
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Test Data

Mode	802.11a_TX5785	Channel	157
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	25.98	19.53	45.51	65.57	-20.06	QP
2	0.1580	2.85	19.53	22.38	55.57	-33.19	AVG
3	0.1900	22.88	19.53	42.41	64.04	-21.63	QP
4	0.1900	4.91	19.53	24.44	54.04	-29.60	AVG
5	3.2340	19.55	19.61	39.16	56.00	-16.84	QP
6	3.2340	13.27	19.61	32.88	46.00	-13.12	AVG
7	4.1579	19.50	19.63	39.13	56.00	-16.87	QP
8	4.1579	13.70	19.63	33.33	46.00	-12.67	AVG
9	4.2220	19.15	19.63	38.78	56.00	-17.22	QP
10	4.2220	11.56	19.63	31.19	46.00	-14.81	AVG
11	4.6860	21.14	19.64	40.78	56.00	-15.22	QP
12	4.6860	12.12	19.64	31.76	46.00	-14.24	AVG

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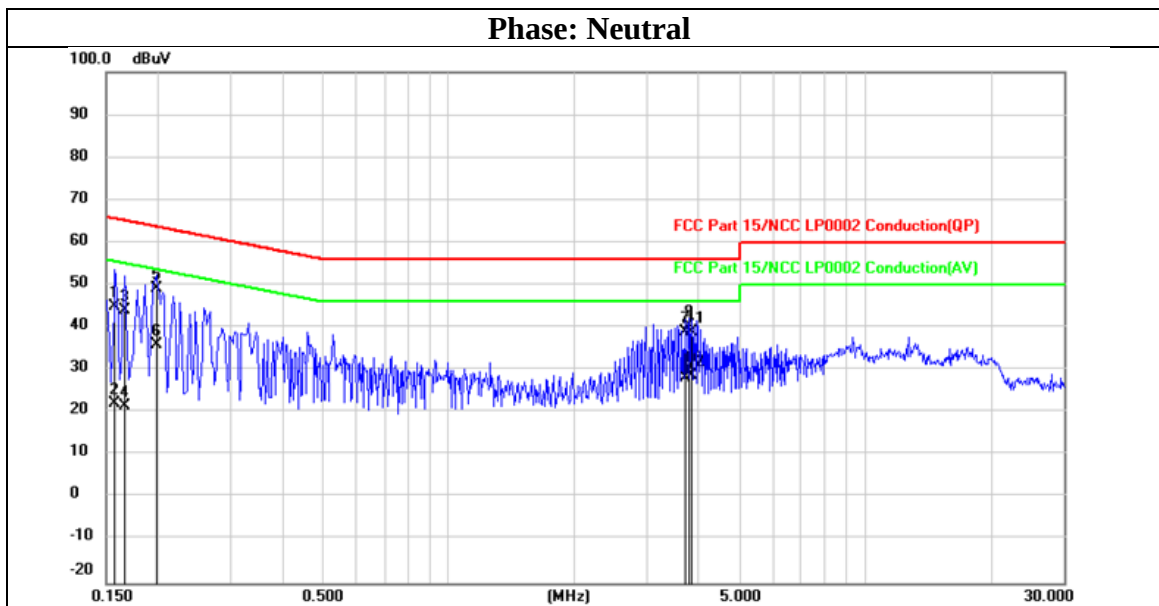
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Mode	802.11a_TX5785	Channel	157
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	25.29	19.54	44.83	65.57	-20.74	QP
2	0.1580	2.56	19.54	22.10	55.57	-33.47	AVG
3	0.1660	24.50	19.54	44.04	65.16	-21.12	QP
4	0.1660	1.93	19.54	21.47	55.16	-33.69	AVG
5	0.1980	29.68	19.54	49.22	63.69	-14.47	QP
6	0.1980	16.47	19.54	36.01	53.69	-17.68	AVG
7	3.6980	19.37	19.63	39.00	56.00	-17.00	QP
8	3.6980	8.45	19.63	28.08	46.00	-17.92	AVG
9	3.7620	20.71	19.63	40.34	56.00	-15.66	QP
10	3.7620	10.11	19.63	29.74	46.00	-16.26	AVG
11	3.8300	19.29	19.64	38.93	56.00	-17.07	QP
12	3.8300	8.97	19.64	28.61	46.00	-17.39	AVG

END OF REPORT

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