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Issued date : 2022/1/28
FCC ID : RYK-WNFQ268AXB

Mode	802.11ax80	Channel	138
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		11380	56.34	-11.74	44.6	74	-29.4	PK
		11380	50.07	-11.74	38.33	54	-15.67	AVG
Chain 1		11380	56.71	-11.74	44.97	74	-29.03	PK
		11380	50.33	-11.74	38.59	54	-15.41	AVG

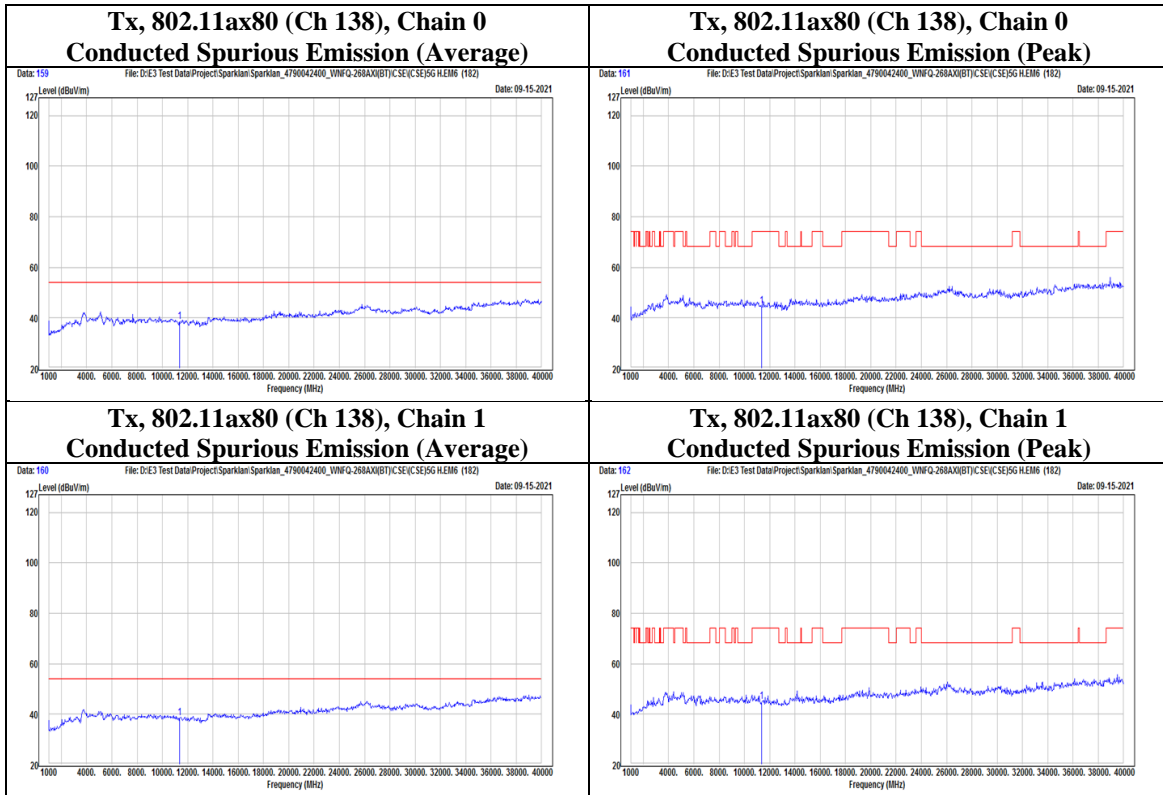
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Mode	802.11ax80	Channel	155
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5644.5	78.5	-11.74	66.76	68.2	-1.44	PK
		5692	90.51	-11.74	78.77	99.3	-20.53	PK
	@	5775	123.19	-11.74	111.45	N/A	N/A	PK
		5875.5	81.97	-11.74	70.23	104.83	-34.6	PK
		5931.5	70.6	-11.74	58.86	68.2	-9.34	PK
		11550	57.64	-11.74	45.9	74	-28.1	PK
		11550	50.73	-11.74	38.99	54	-15.01	AVG
Chain 1		5649	77.25	-11.74	65.51	68.2	-2.69	PK
		5698	86.58	-11.74	74.84	103.73	-28.89	PK
	@	5775	124.23	-11.74	112.49	N/A	N/A	PK
		5875	80.68	-11.74	68.94	105.2	-36.26	PK
		5925	70.15	-11.74	58.41	68.2	-9.79	PK
		11550	58.28	-11.74	46.54	74	-27.46	PK
		11550	50.71	-11.74	38.97	54	-15.03	AVG

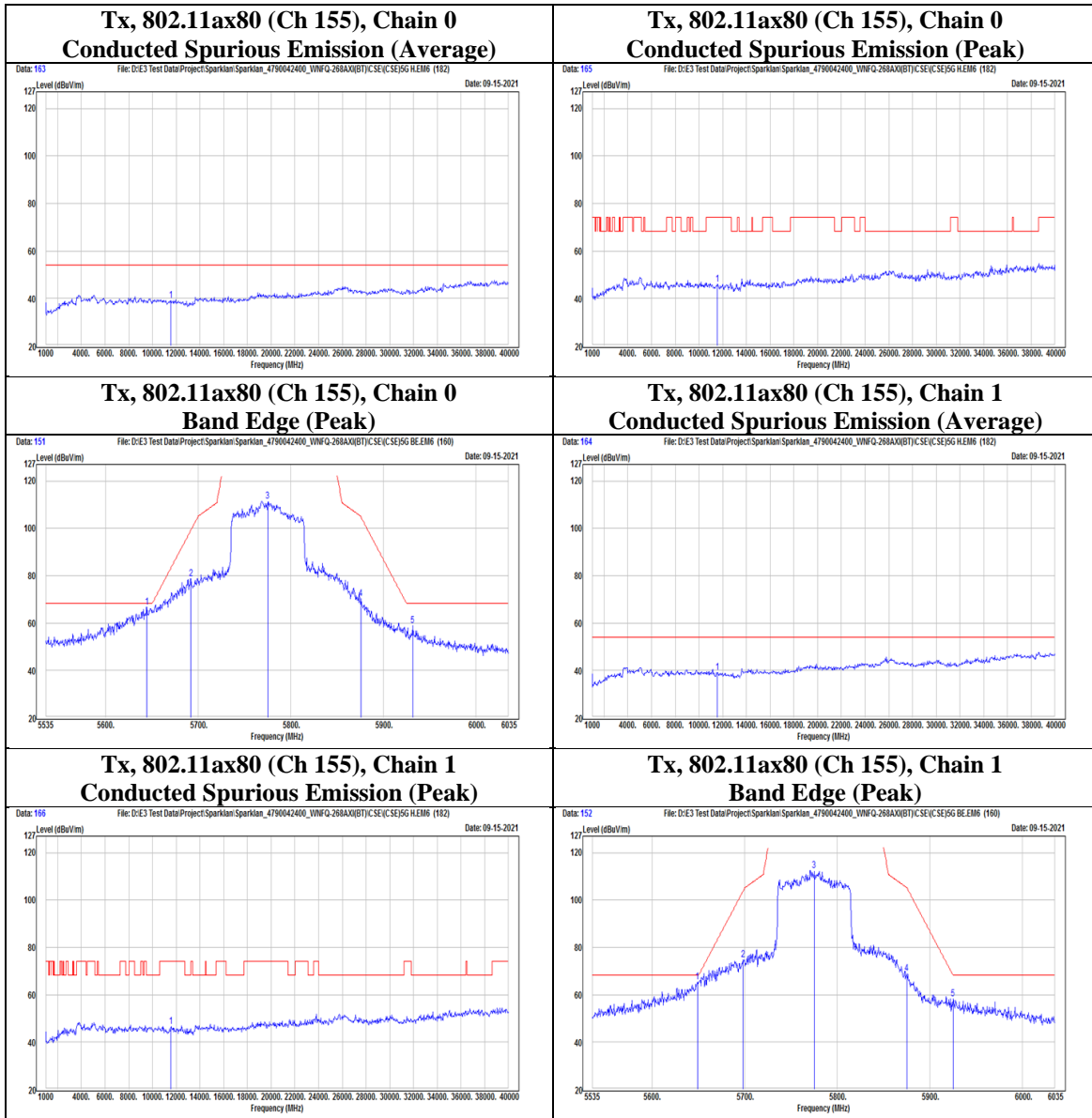
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Mode	802.11ax160	Channel	50
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5121.44	63.33	-11.74	51.59	54	-2.41	AVG
		5123.28	77.03	-11.74	65.29	74	-8.71	PK
	@	5250	114.58	-11.74	102.84	N/A	N/A	PK
	@	5250	102.44	-11.74	90.7	N/A	N/A	AVG
		5378.12	62.9	-11.74	51.16	54	-2.84	AVG
		5402.5	76.08	-11.74	64.34	74	-9.66	PK
		10500	58.42	-11.74	46.68	68.2	-21.52	PK
		10500	50.55	-11.74	38.81	54	-15.19	AVG
Chain 1		5103.5	76.19	-11.74	64.45	74	-9.55	PK
		5110.4	63.04	-11.74	51.3	54	-2.7	AVG
	@	5250	117.17	-11.74	105.43	N/A	N/A	PK
	@	5250	103.13	-11.74	91.39	N/A	N/A	AVG
		5378.12	64.82	-11.74	53.08	54	-0.92	AVG
		5402.04	78.53	-11.74	66.79	74	-7.21	PK
		10500	58.1	-11.74	46.36	68.2	-21.84	PK
		10500	50.91	-11.74	39.17	54	-14.83	AVG

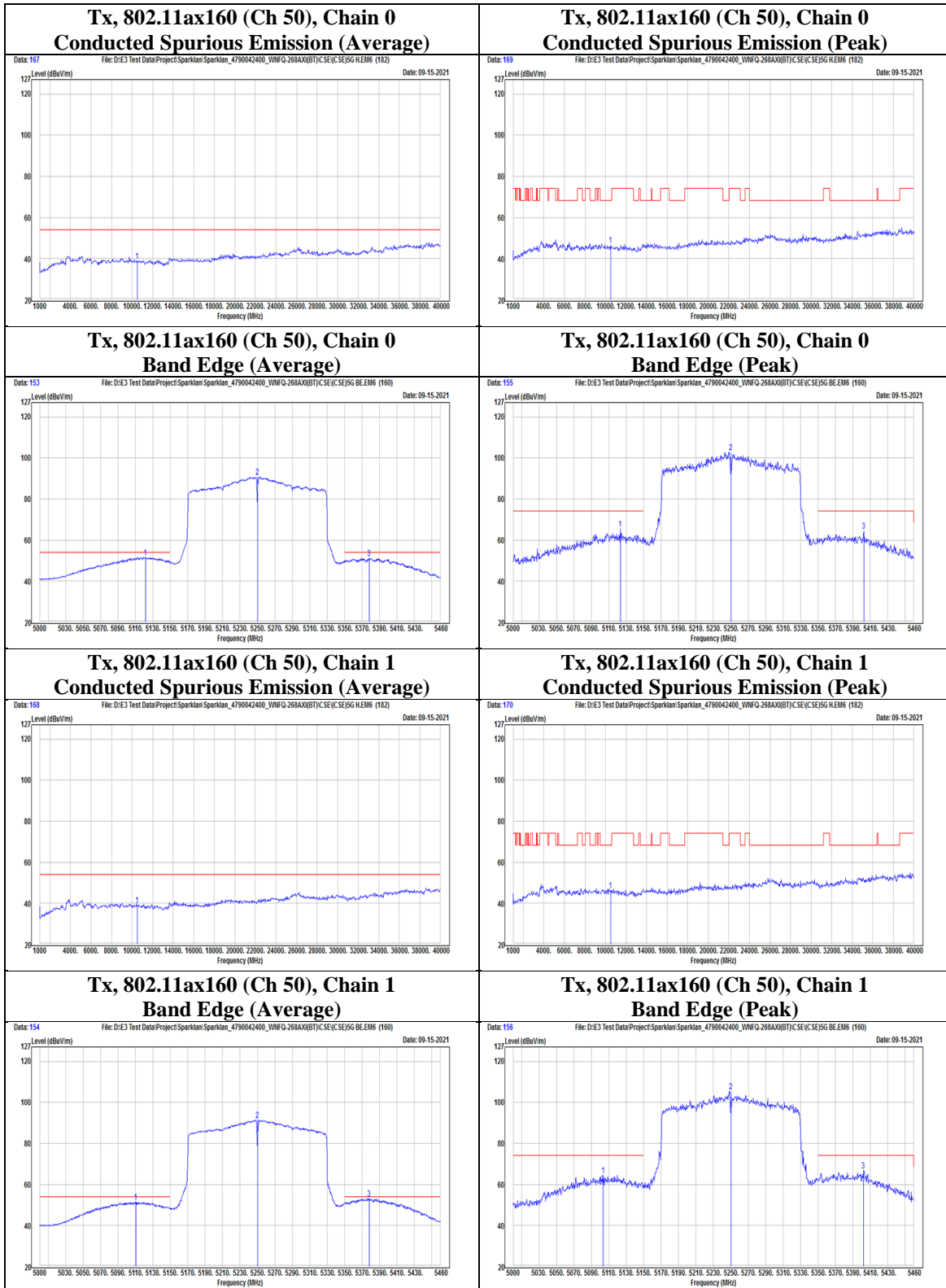
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Mode	802.11ax160	Channel	114
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5423.45	59.82	-11.74	48.08	54	-5.92	AVG
		5435.35	69.97	-11.74	58.23	74	-15.77	PK
		5467.9	69.63	-11.74	57.89	68.2	-10.31	PK
	@	5570	113.43	-11.74	101.69	N/A	N/A	PK
	@	5570	103.41	-11.74	91.67	N/A	N/A	AVG
		5727.95	73.03	-11.74	61.29	68.2	-6.91	PK
		11140	58.44	-11.74	46.7	74	-27.3	PK
		11140	50.18	-11.74	38.44	54	-15.56	AVG
Chain 1		5413.65	76.53	-11.74	64.79	74	-9.21	PK
		5423.45	64.86	-11.74	53.12	54	-0.88	AVG
		5460.2	73.43	-11.74	61.69	68.2	-6.51	PK
	@	5570	116.21	-11.74	104.47	N/A	N/A	PK
	@	5570	105.71	-11.74	93.97	N/A	N/A	AVG
		5733.55	73.35	-11.74	61.61	68.2	-6.59	PK
		11140	57.28	-11.74	45.54	74	-28.46	PK
		11140	50.7	-11.74	38.96	54	-15.04	AVG

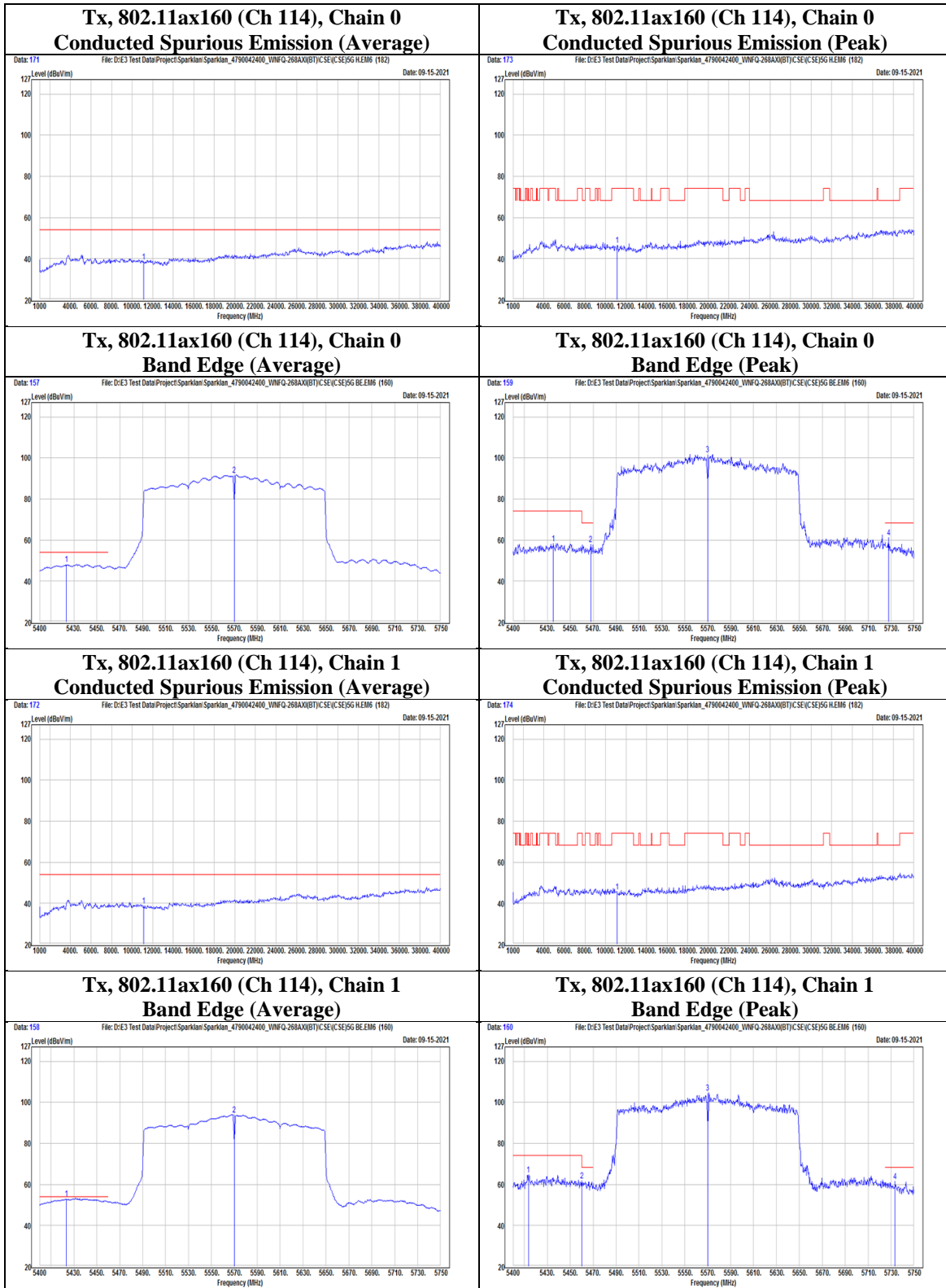
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Below 1 GHz

Mode	802.11a	Channel	149
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		74.62	24.86	-7.04	17.82	40	-22.18	PK
		199.75	26.07	-7.04	19.03	43.5	-24.47	PK
		236.61	26.24	-7.04	19.2	46	-26.8	PK
		696.39	27.34	-7.04	20.3	46	-25.7	PK
		849.65	27.15	-7.04	20.11	46	-25.89	PK
		963.14	26.26	-7.04	19.22	54	-34.78	PK
Chain 1		35.82	25.39	-7.04	18.35	40	-21.65	PK
		214.3	25.81	-7.04	18.77	43.5	-24.73	PK
		450.01	26.67	-7.04	19.63	46	-26.37	PK
		691.54	26.59	-7.04	19.55	46	-26.45	PK
		757.5	27.88	-7.04	20.84	46	-25.16	PK
		966.05	26.24	-7.04	19.2	54	-34.8	PK

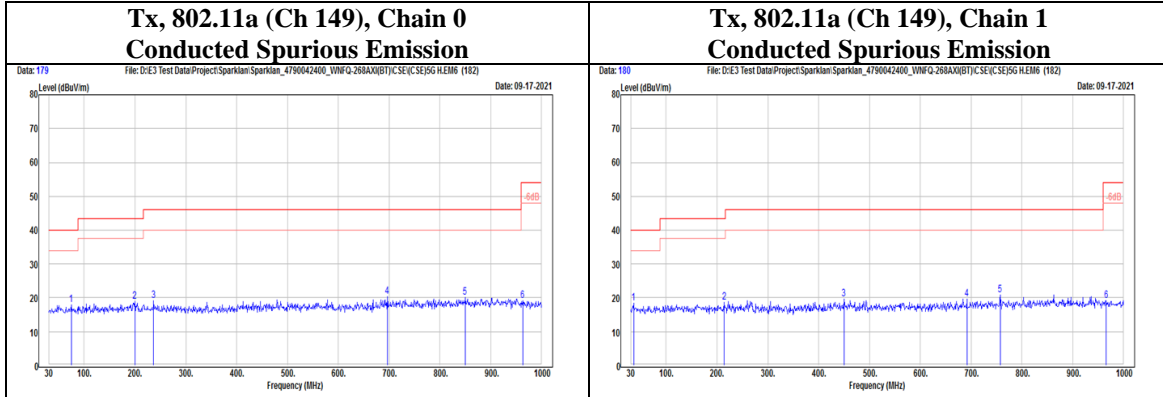
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9 kHz ~ 30 MHz Data:

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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9.8. 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 (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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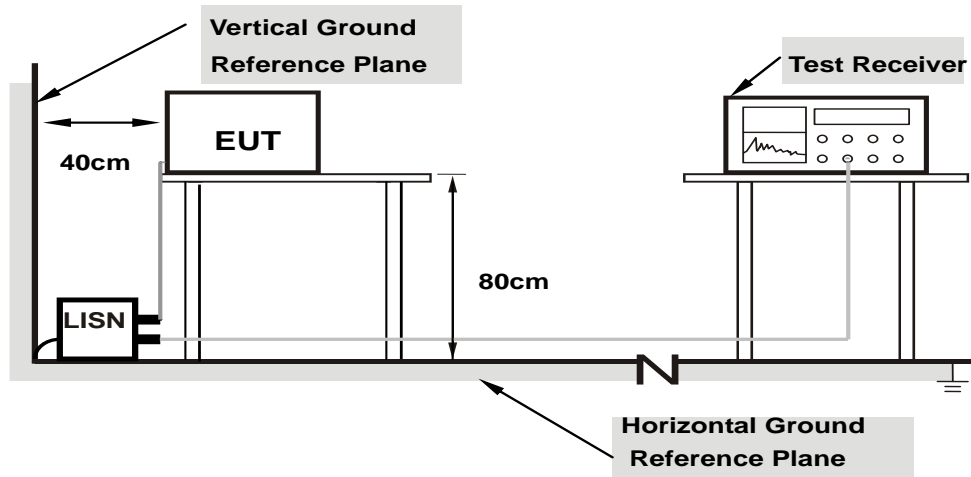
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Test Setup



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

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

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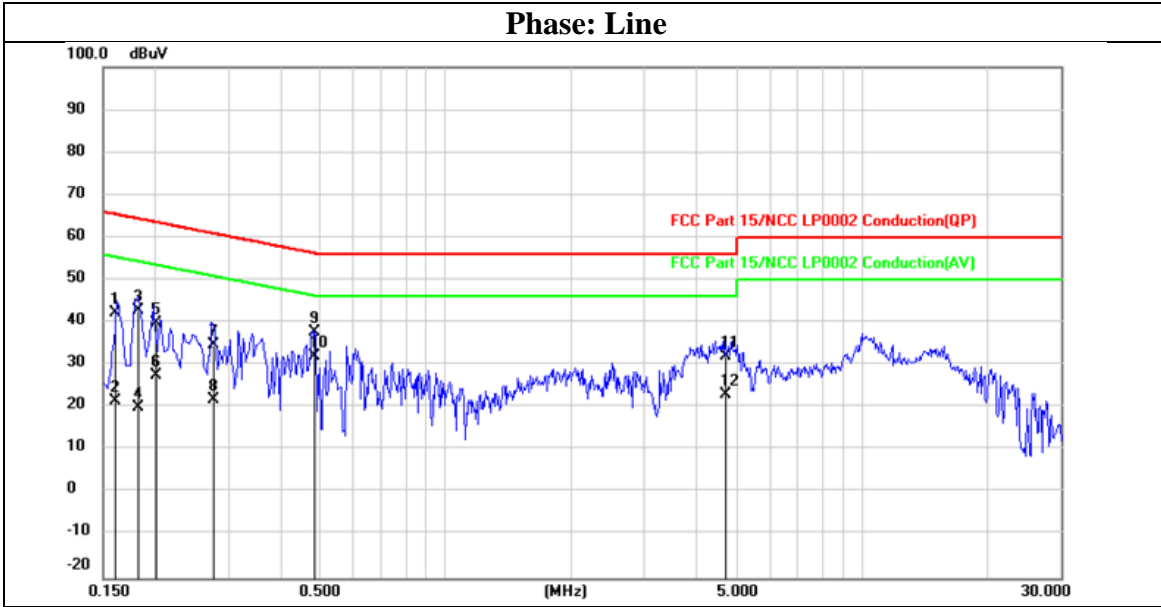
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Test Data

Mode	TX_802.11a	Channel	149
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1599	42.21	0.08	42.29	65.47	-23.18	QP
2	0.1599	21.52	0.08	21.60	55.47	-33.87	AVG
3	0.1831	42.67	0.08	42.75	64.34	-21.59	QP
4	0.1831	19.93	0.08	20.01	54.34	-34.33	AVG
5	0.2007	39.84	0.08	39.92	63.58	-23.66	QP
6	0.2007	27.50	0.08	27.58	53.58	-26.00	AVG
7	0.2763	34.54	0.08	34.62	60.93	-26.31	QP
8	0.2763	21.68	0.08	21.76	50.93	-29.17	AVG
9	0.4838	37.74	0.09	37.83	56.27	-18.44	QP
10	0.4838	32.04	0.09	32.13	46.27	-14.14	AVG
11	4.7057	31.84	0.22	32.06	56.00	-23.94	QP
12	4.7057	22.70	0.22	22.92	46.00	-23.08	AVG

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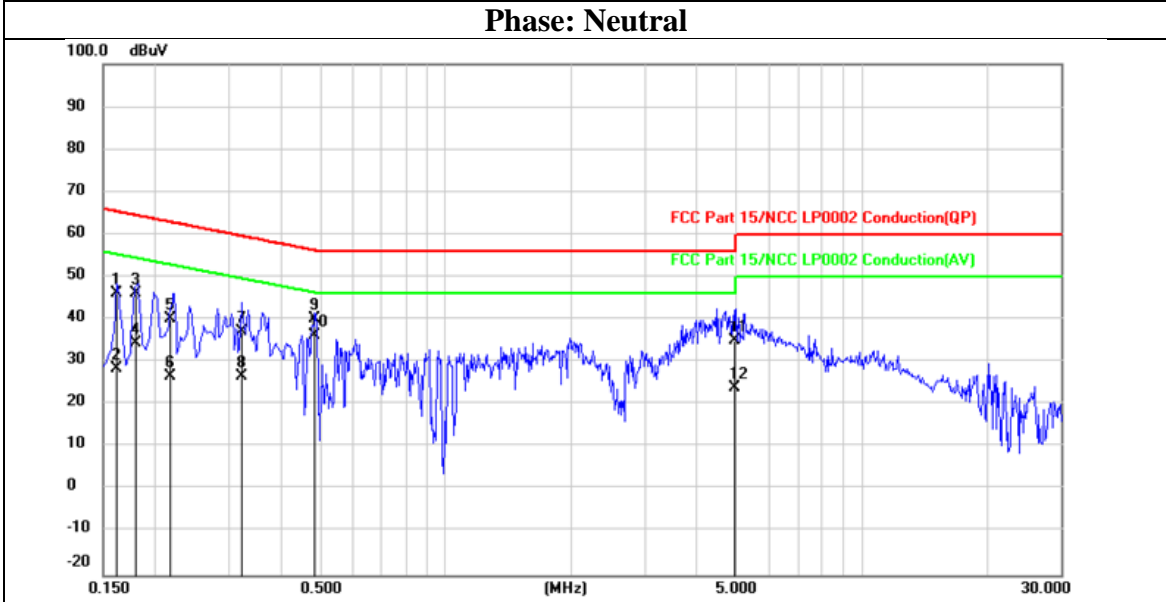
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Mode	TX_802.11a	Channel	149
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1615	46.01	0.06	46.07	65.39	-19.32	QP
2	0.1615	28.28	0.06	28.34	55.39	-27.05	AVG
3	0.1795	46.16	0.07	46.23	64.51	-18.28	QP
4	0.1795	34.41	0.07	34.48	54.51	-20.03	AVG
5	0.2173	39.96	0.07	40.03	62.92	-22.89	QP
6	0.2173	26.67	0.07	26.74	52.92	-26.18	AVG
7	0.3209	37.03	0.08	37.11	59.68	-22.57	QP
8	0.3209	26.45	0.08	26.53	49.68	-23.15	AVG
9	0.4830	40.14	0.08	40.22	56.29	-16.07	QP
10	0.4830	36.13	0.08	36.21	46.29	-10.08	AVG
11	4.9613	34.84	0.22	35.06	56.00	-20.94	QP
12	4.9613	23.84	0.22	24.06	46.00	-21.94	AVG

END OF REPORT

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