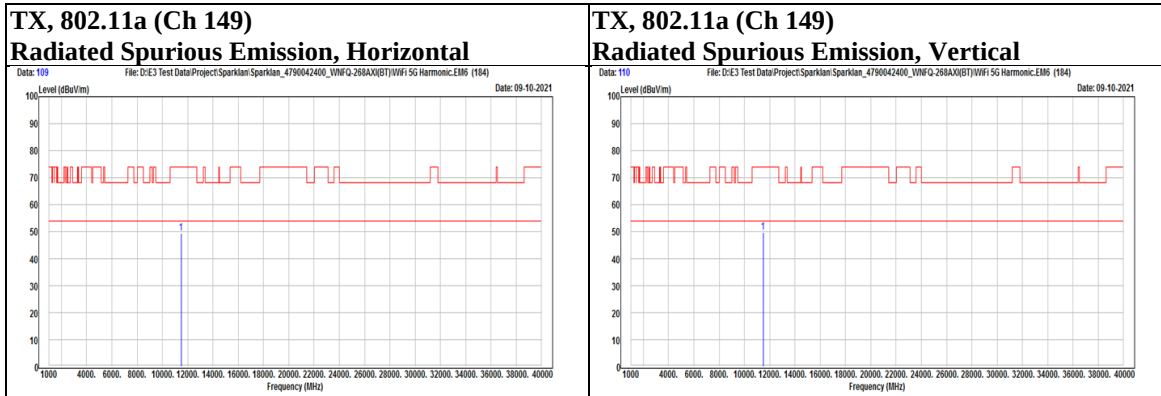




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Mode	802.11a	Channel	157
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11570	29.78	18.88	48.66	74	-25.34	PK
Vertical	*	11570	30.22	18.88	49.1	74	-24.9	PK

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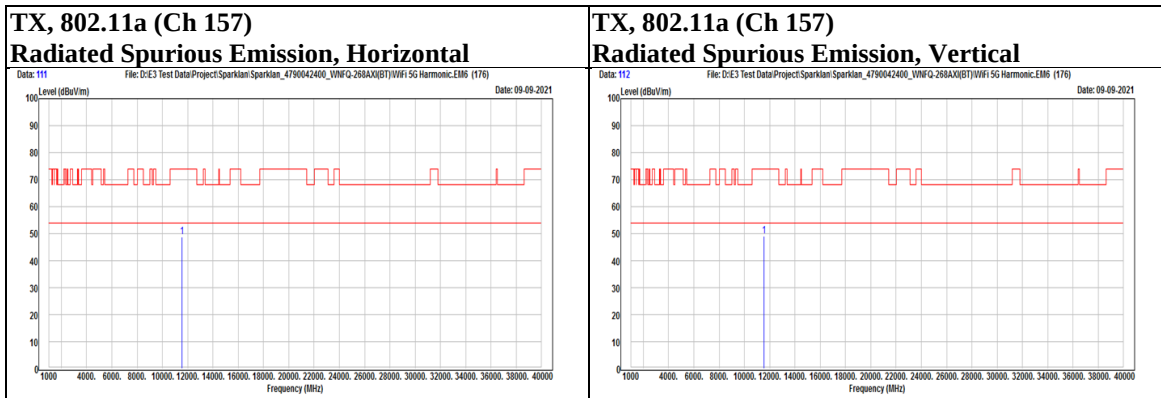
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Mode	802.11a	Channel	165
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11650	29.69	18.63	48.32	74	-25.68	PK
Vertical	*	11650	29.05	18.63	47.68	74	-26.32	PK

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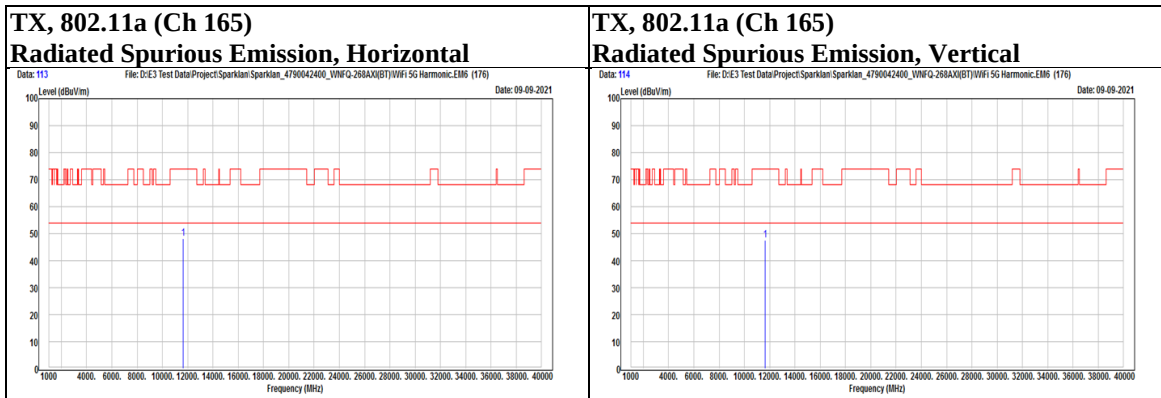
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Mode	802.11ax(HE20)	Channel	36
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10360	31.82	17.39	49.21	68.2	-18.99	PK
Vertical	*	10360	31.33	17.39	48.72	68.2	-19.48	PK

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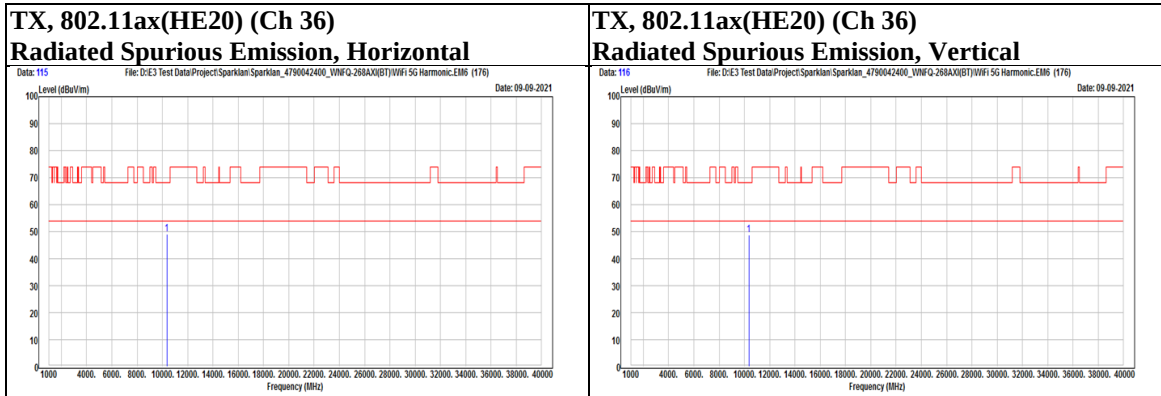
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Mode	802.11ax(HE20)	Channel	44
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10440	31.08	17.63	48.71	68.2	-19.49	PK
Vertical	*	10440	30.3	17.63	47.93	68.2	-20.27	PK

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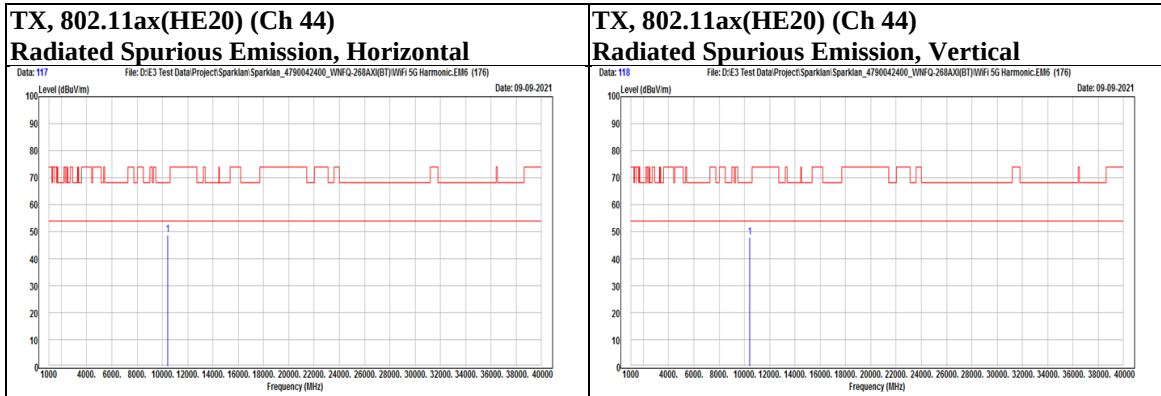
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Mode	802.11ax(HE20)	Channel	48
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10480	30.87	17.69	48.56	68.2	-19.64	PK
Vertical	*	10480	30.25	17.69	47.94	68.2	-20.26	PK

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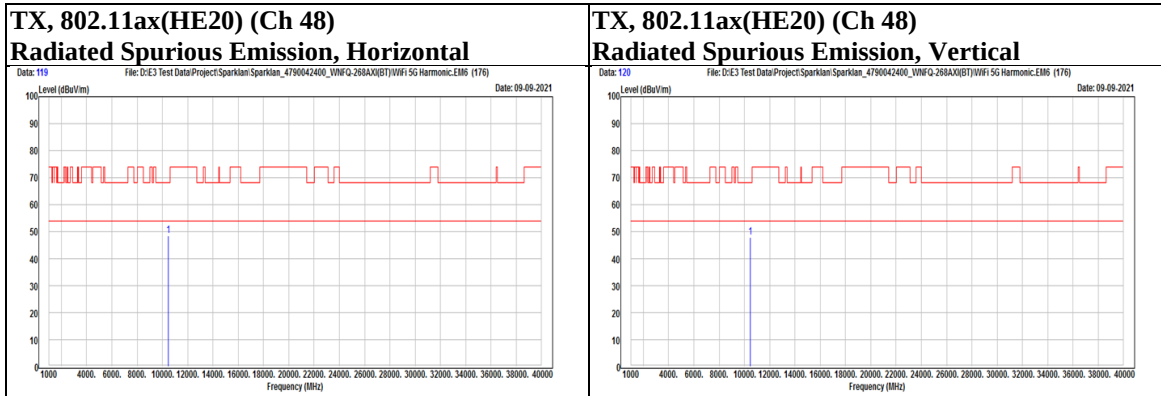
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Mode	802.11ax(HE20)	Channel	52
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10520	30.8	17.73	48.53	68.2	-19.67	PK
Vertical	*	10520	30.45	17.73	48.18	68.2	-20.02	PK

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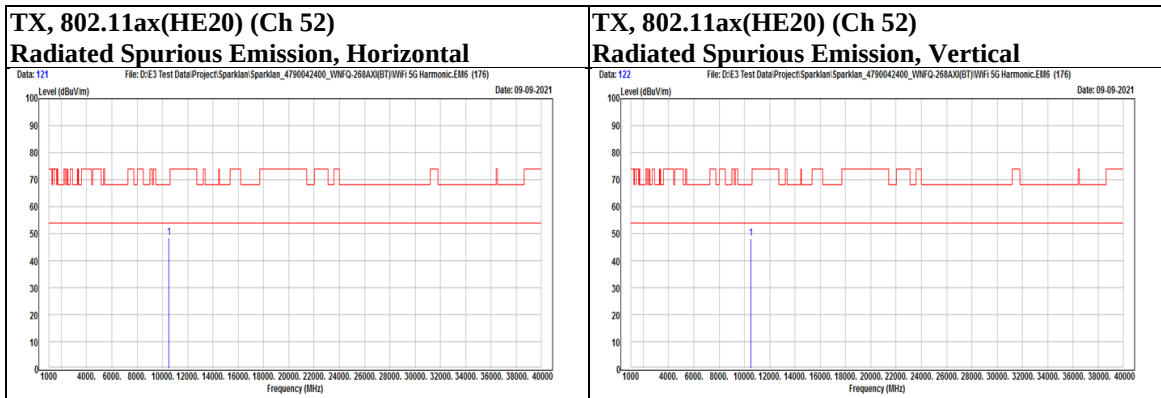
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Mode	802.11ax(HE20)	Channel	60
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10600	31.25	17.73	48.98	68.2	-19.22	PK
Vertical	*	10600	31.24	17.73	48.97	68.2	-19.23	PK

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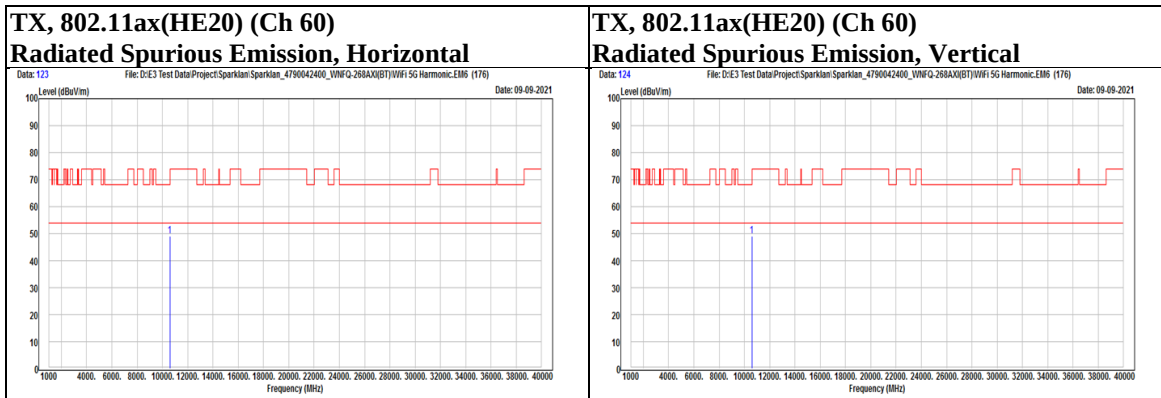
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Mode	802.11ax(HE20)	Channel	64
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10640	30.25	17.82	48.07	74	-25.93	PK
Vertical	*	10640	31.67	17.82	49.49	74	-24.51	PK

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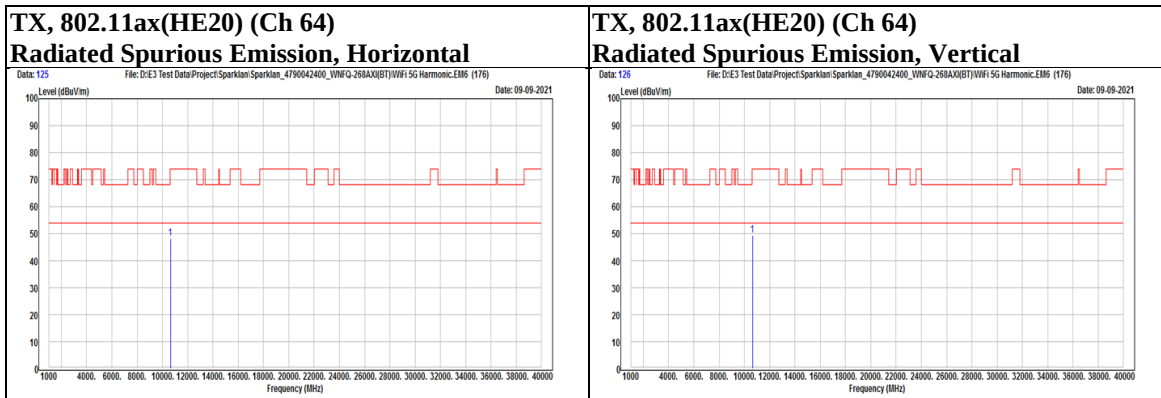
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Mode	802.11ax(HE20)	Channel	100
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11000	31.86	18.28	50.14	74	-23.86	PK
Vertical	*	11000	30.65	18.28	48.93	74	-25.07	PK

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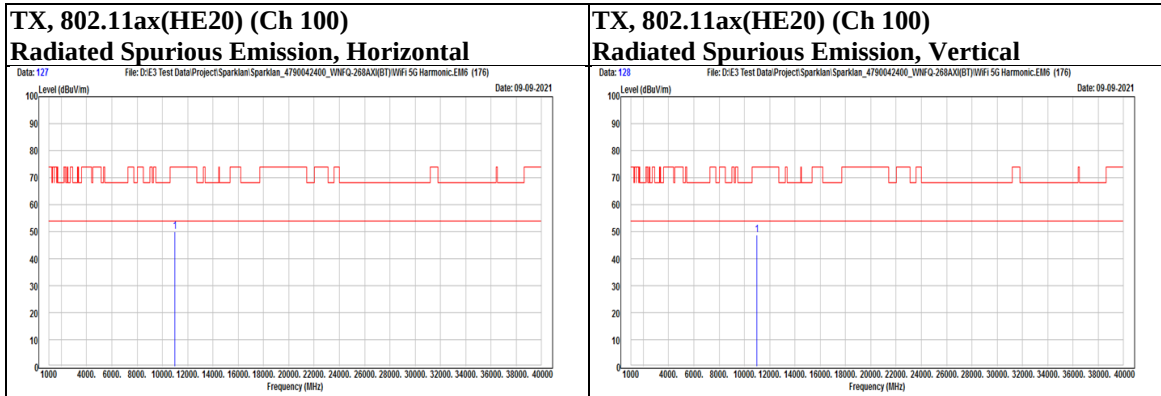
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Mode	802.11ax(HE20)	Channel	116
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11160	29.84	18.32	48.16	74	-25.84	PK
Vertical	*	11160	30.09	18.32	48.41	74	-25.59	PK

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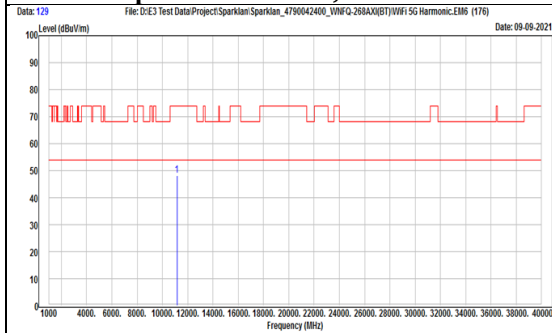
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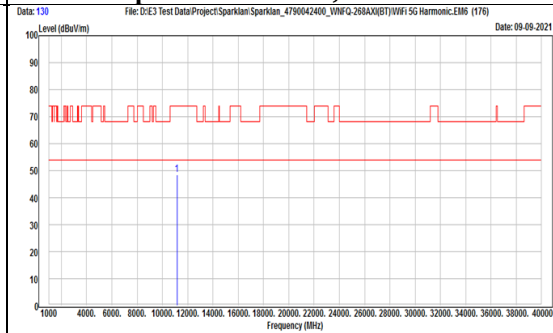
TX, 802.11ax(HE20) (Ch 116)

Radiated Spurious Emission, Horizontal



TX, 802.11ax(HE20) (Ch 116)

Radiated Spurious Emission, Vertical



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Mode	802.11ax(HE20)	Channel	140
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11400	31.1	18.74	49.84	74	-24.16	PK
Vertical	*	11400	29.8	18.74	48.54	74	-25.46	PK

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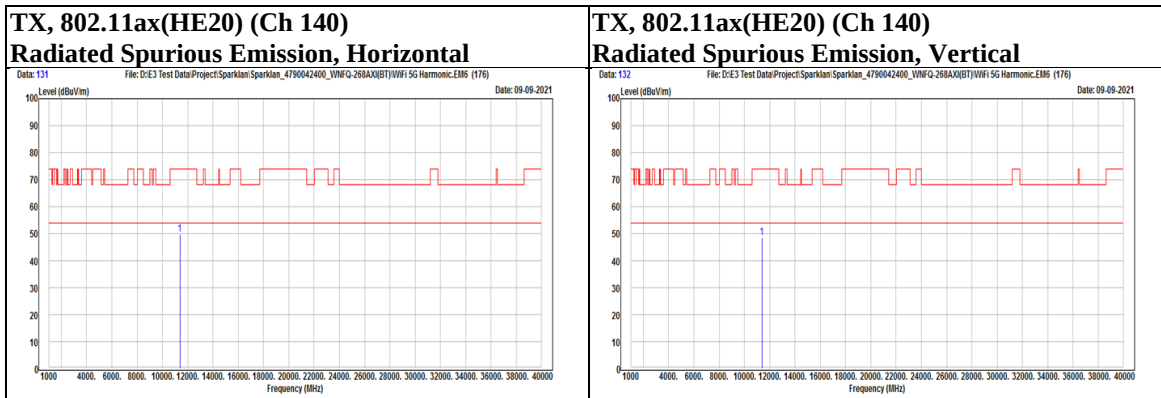
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Mode	802.11ax(HE20)	Channel	144
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11440	30.12	18.86	48.98	74	-25.02	PK
Vertical	*	11440	30.11	18.86	48.97	74	-25.03	PK

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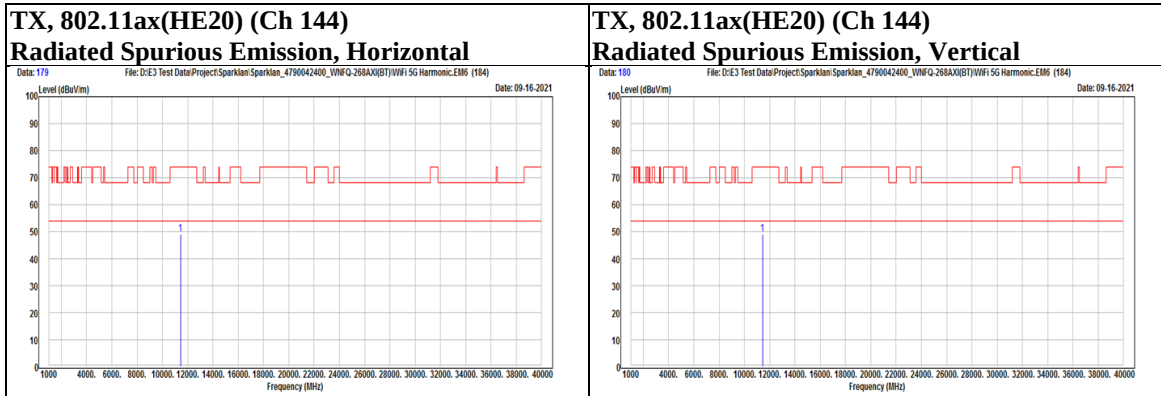
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Mode	802.11ax(HE20)	Channel	149
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11490	30.19	19.02	49.21	74	-24.79	PK
Vertical	*	11490	29.86	19.02	48.88	74	-25.12	PK

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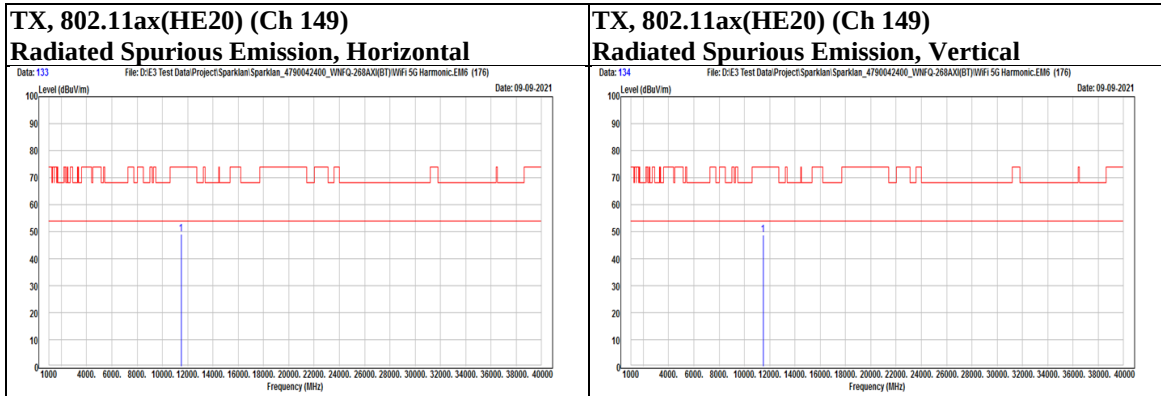
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Mode	802.11ax(HE20)	Channel	157
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11570	29.52	18.88	48.4	74	-25.6	PK
Vertical	*	11570	30.57	18.88	49.45	74	-24.55	PK

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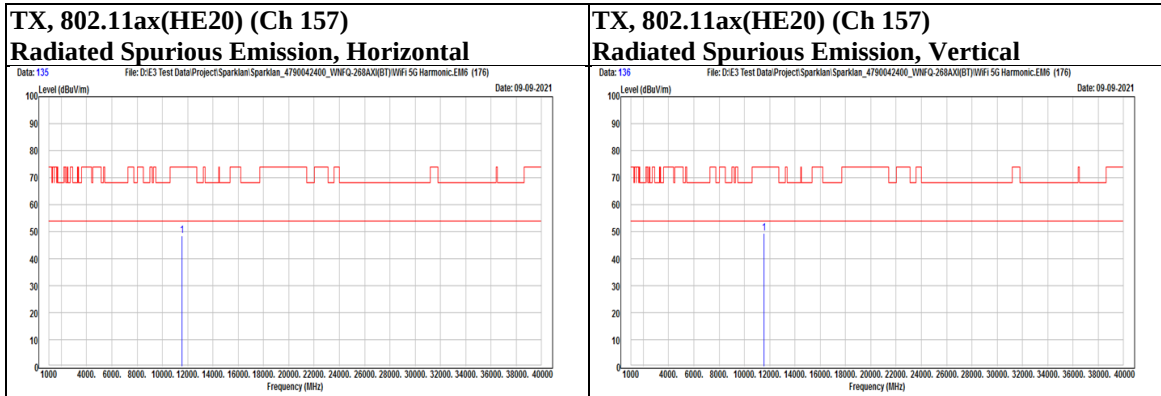
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Mode	802.11ax(HE20)	Channel	165
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11650	29.74	18.63	48.37	74	-25.63	PK
Vertical	*	11650	29.16	18.63	47.79	74	-26.21	PK

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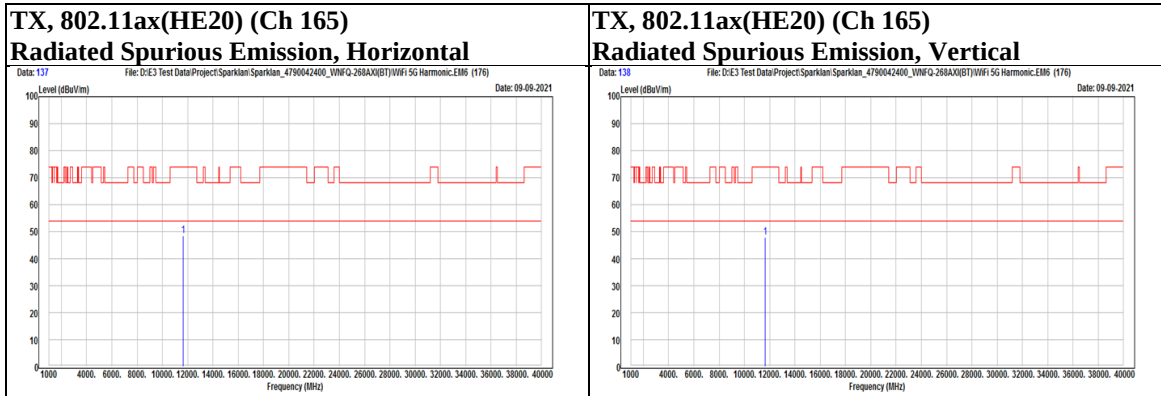
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Mode	802.11ax(HE40)	Channel	38
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10380	31.61	17.49	49.1	68.2	-19.1	PK
Vertical	*	10380	30.88	17.49	48.37	68.2	-19.83	PK

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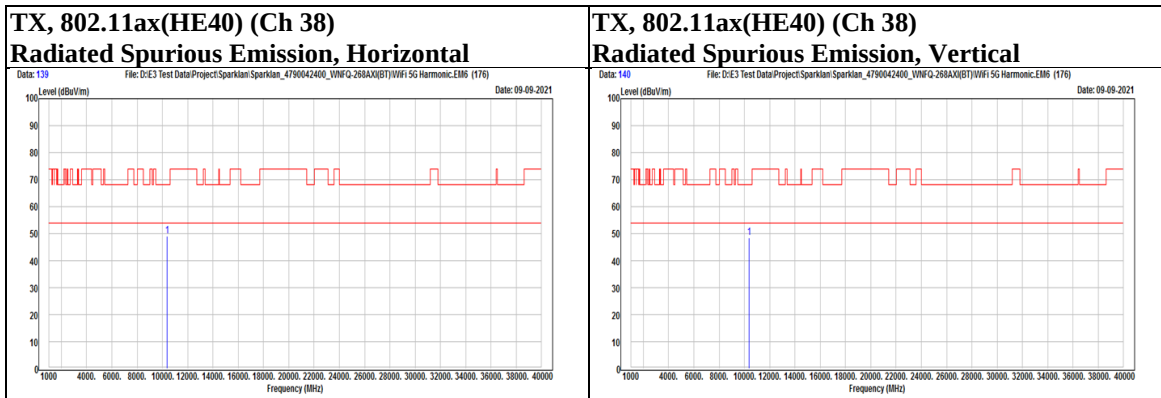
Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0878 / 6.0



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Mode	802.11ax(HE40)	Channel	46
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10460	30.91	17.66	48.57	68.2	-19.63	PK
Vertical	*	10460	31.59	17.66	49.25	68.2	-18.95	PK

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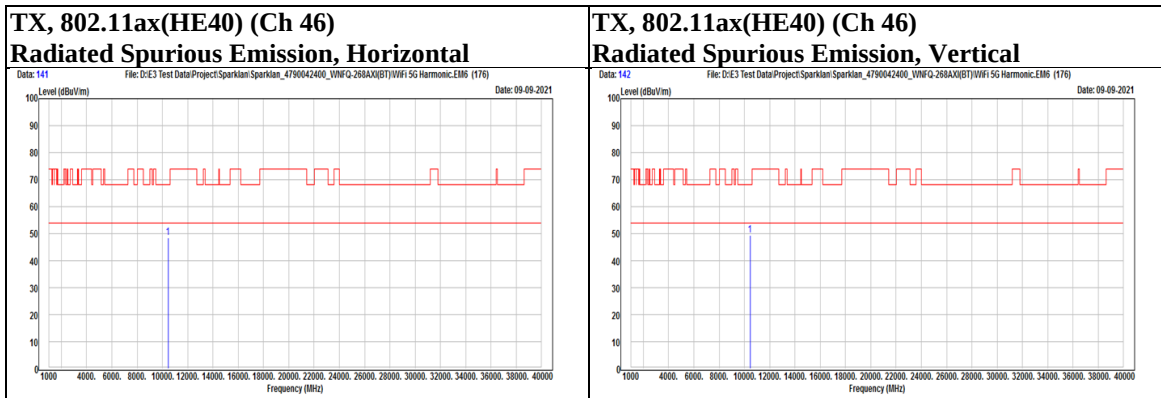
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Mode	802.11ax(HE40)	Channel	54
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10540	31.01	17.72	48.73	68.2	-19.47	PK
Vertical	*	10540	30.85	17.72	48.57	68.2	-19.63	PK

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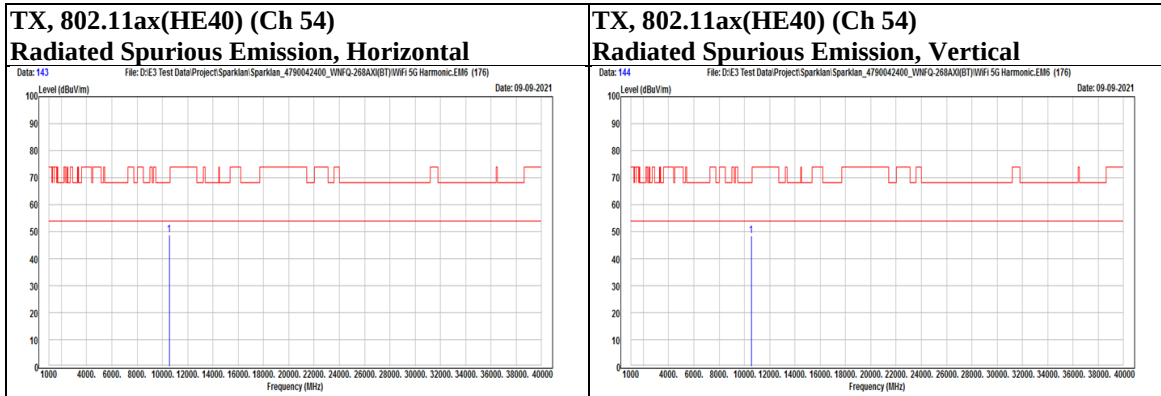
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Mode	802.11ax(HE40)	Channel	62
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10620	31.27	17.78	49.05	74	-24.95	PK
Vertical	*	10620	30.62	17.78	48.4	74	-25.6	PK

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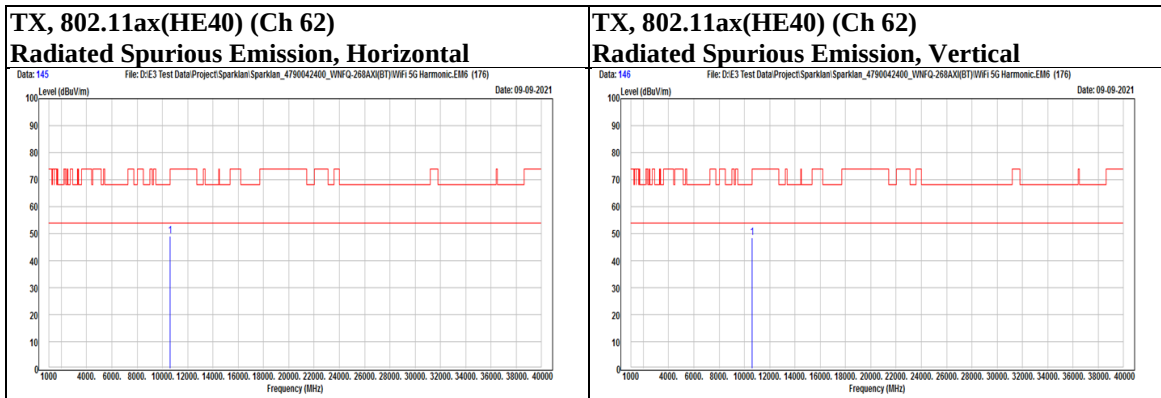
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Mode	802.11ax(HE40)	Channel	102
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11020	31.15	18.32	49.47	74	-24.53	PK
Vertical	*	11020	30.13	18.32	48.45	74	-25.55	PK

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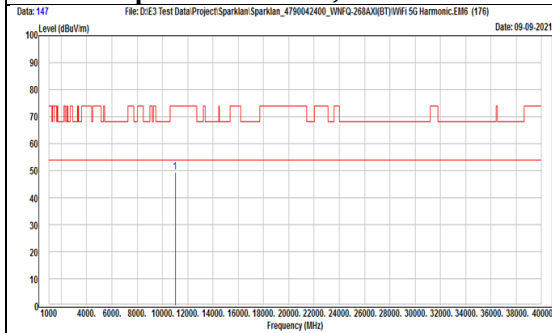
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Issued date : 2022/1/28
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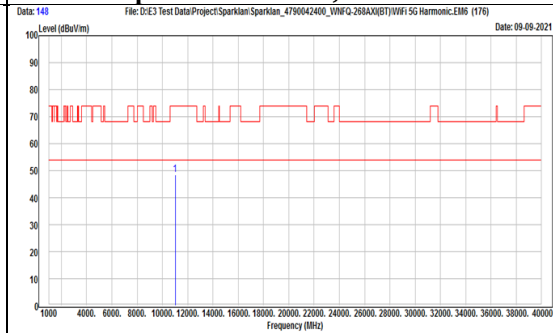
TX, 802.11ax(HE40) (Ch 102)

Radiated Spurious Emission, Horizontal



TX, 802.11ax(HE40) (Ch 102)

Radiated Spurious Emission, Vertical



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Mode	802.11ax(HE40)	Channel	110
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11100	30.25	18.49	48.74	74	-25.26	PK
Vertical	*	11100	29.87	18.49	48.36	74	-25.64	PK

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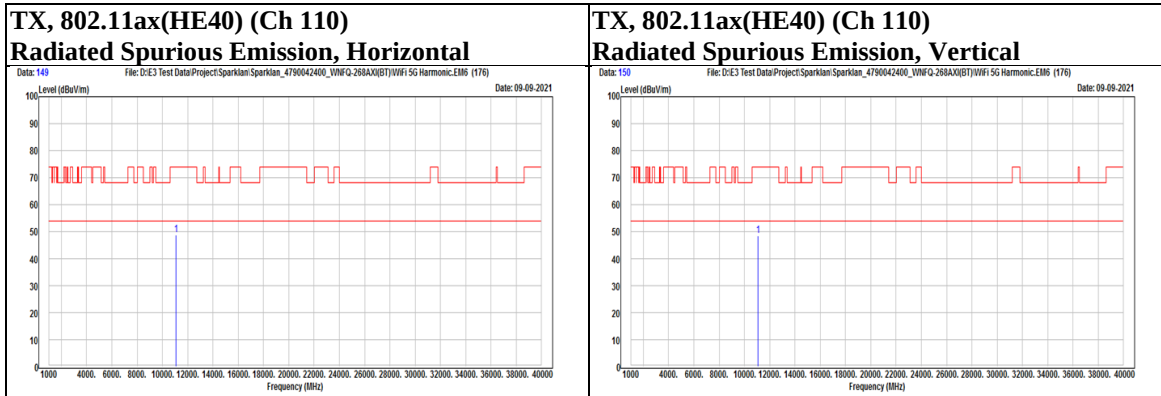
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Mode	802.11ax(HE40)	Channel	134
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11340	30.43	18.55	48.98	74	-25.02	PK
Vertical	*	11340	29.67	18.55	48.22	74	-25.78	PK

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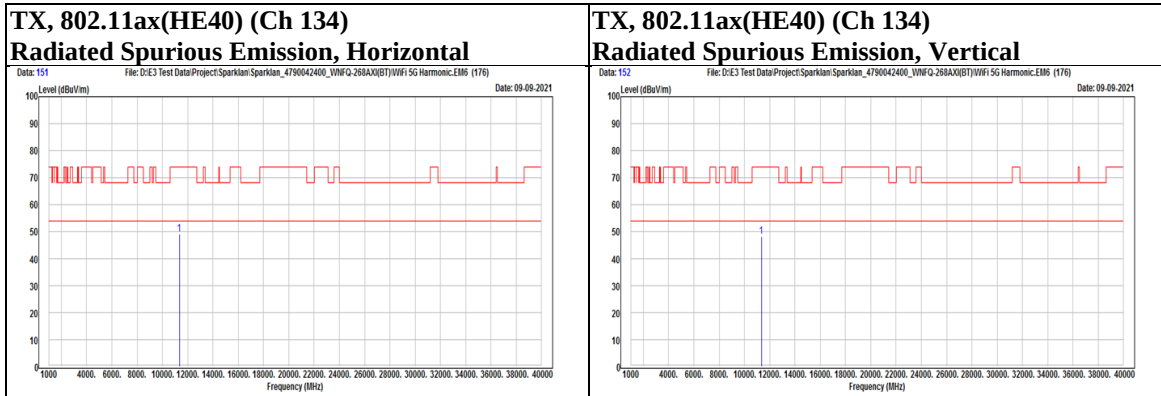
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Mode	802.11ax(HE40)	Channel	142
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11420	31.04	18.8	49.84	74	-24.16	PK
Vertical	*	11420	29.74	18.8	48.54	74	-25.46	PK

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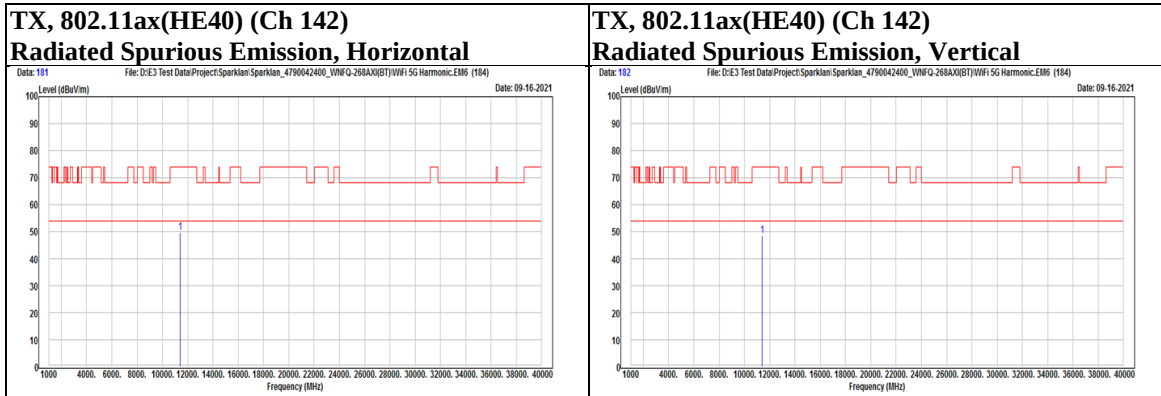
Telephone :+886-2-7737-3000

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Mode	802.11ax(HE40)	Channel	151
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11510	29.83	19.03	48.86	74	-25.14	PK
Vertical	*	11510	29.95	19.03	48.98	74	-25.02	PK

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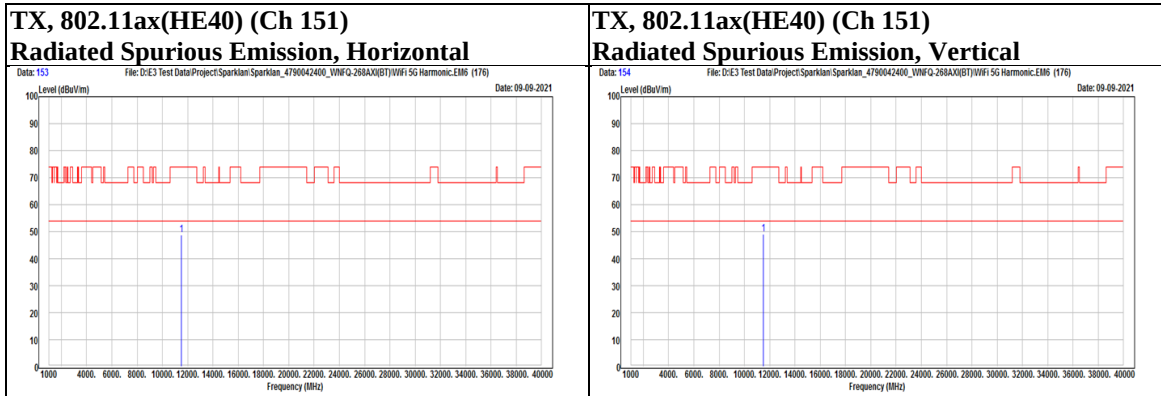
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Mode	802.11ax(HE40)	Channel	159
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11590	28.87	18.84	47.71	74	-26.29	PK
Vertical	*	11590	29.71	18.84	48.55	74	-25.45	PK

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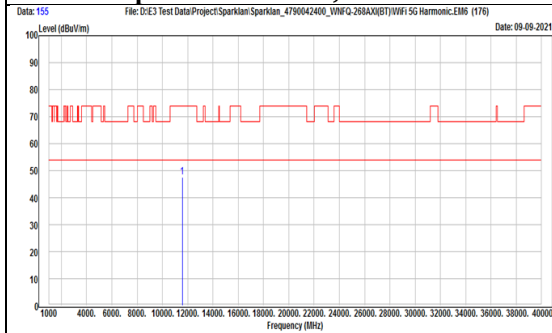
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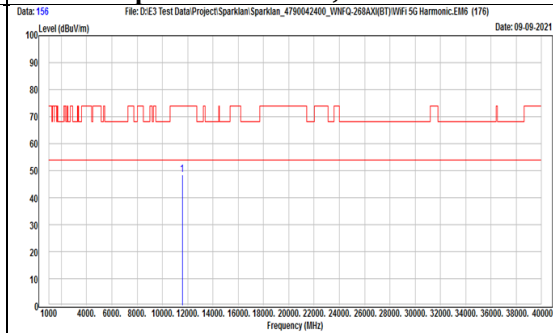
TX, 802.11ax(HE40) (Ch 159)

Radiated Spurious Emission, Horizontal



TX, 802.11ax(HE40) (Ch 159)

Radiated Spurious Emission, Vertical



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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	*	10420	31.31	17.6	48.91	68.2	-19.29	PK
Vertical	*	10420	31.73	17.6	49.33	68.2	-18.87	PK

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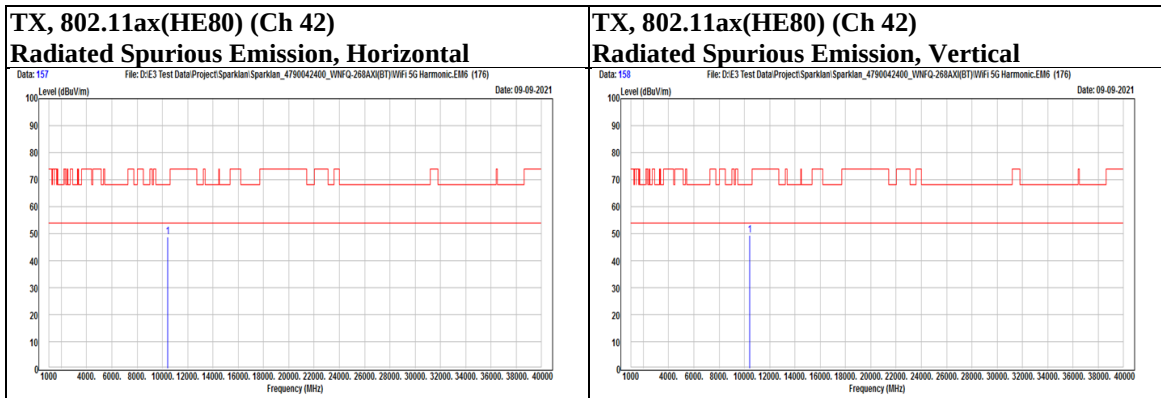
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Mode	802.11ax(HE80)	Channel	58
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10580	30.34	17.73	48.07	68.2	-20.13	PK
Vertical	*	10580	30.87	17.73	48.6	68.2	-19.6	PK

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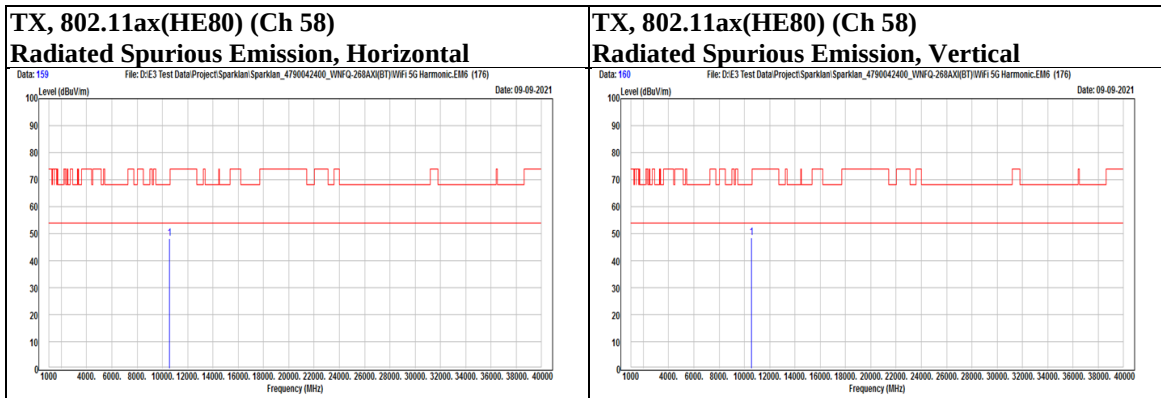
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Mode	802.11ax(HE80)	Channel	106
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11060	30.7	18.41	49.11	74	-24.89	PK
Vertical	*	11060	30.24	18.41	48.65	74	-25.35	PK

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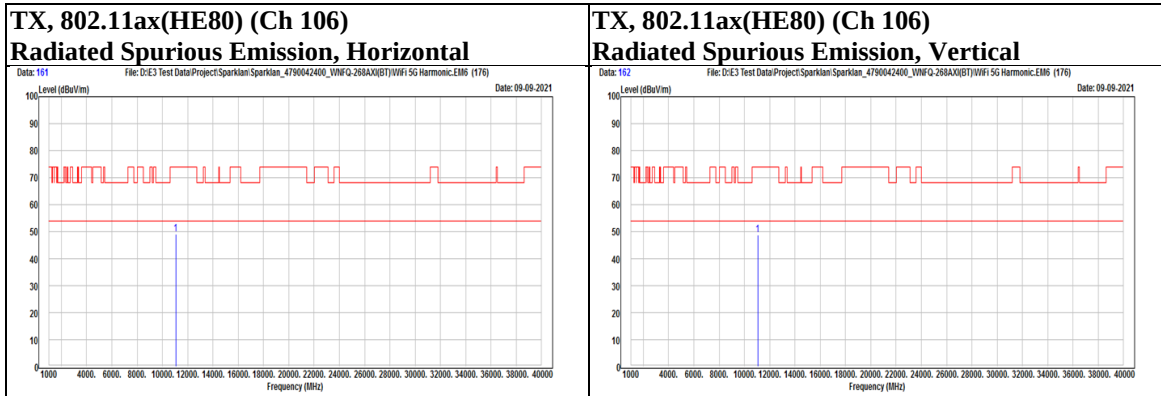
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Mode	802.11ax(HE80)	Channel	122
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11220	30.55	18.25	48.8	74	-25.2	PK
Vertical	*	11220	29.77	18.25	48.02	74	-25.98	PK

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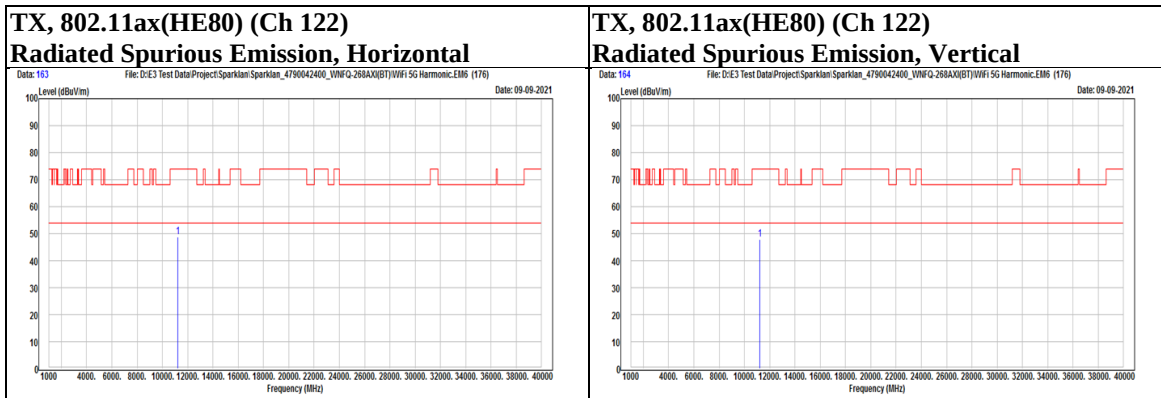
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Mode	802.11ax(HE80)	Channel	138
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11380	29.7	18.67	48.37	74	-25.63	PK
Vertical	*	11380	29.12	18.67	47.79	74	-26.21	PK

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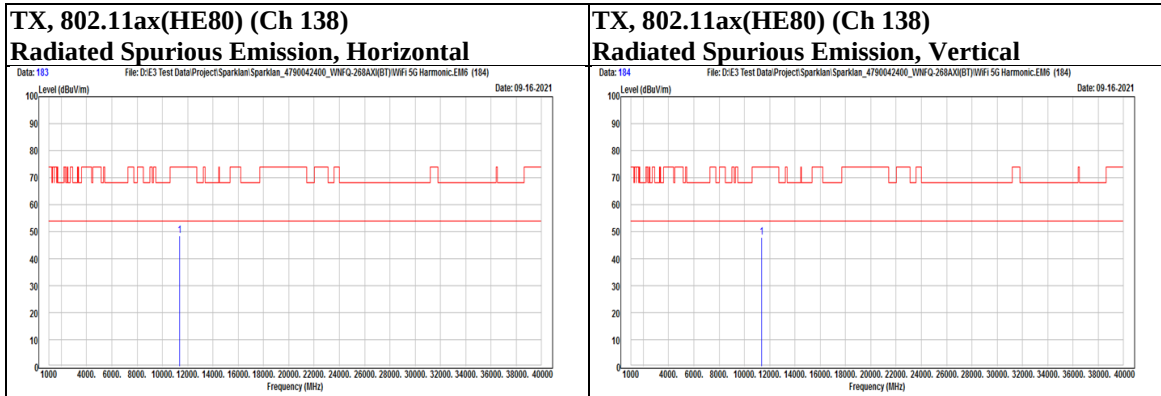
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Mode	802.11ax(HE80)	Channel	155
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11550	30.05	18.93	48.98	74	-25.02	PK
Vertical	*	11550	29.82	18.93	48.75	74	-25.25	PK

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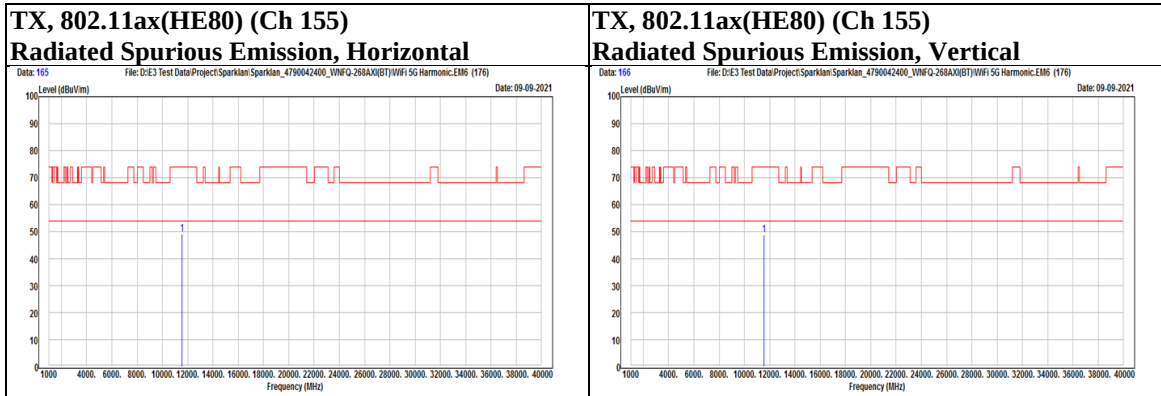
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Mode	802.11ax(HE160)	Channel	50
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	10500	30.38	17.72	48.1	68.2	-20.1	PK
Vertical	*	10500	30.83	17.72	48.55	68.2	-19.65	PK

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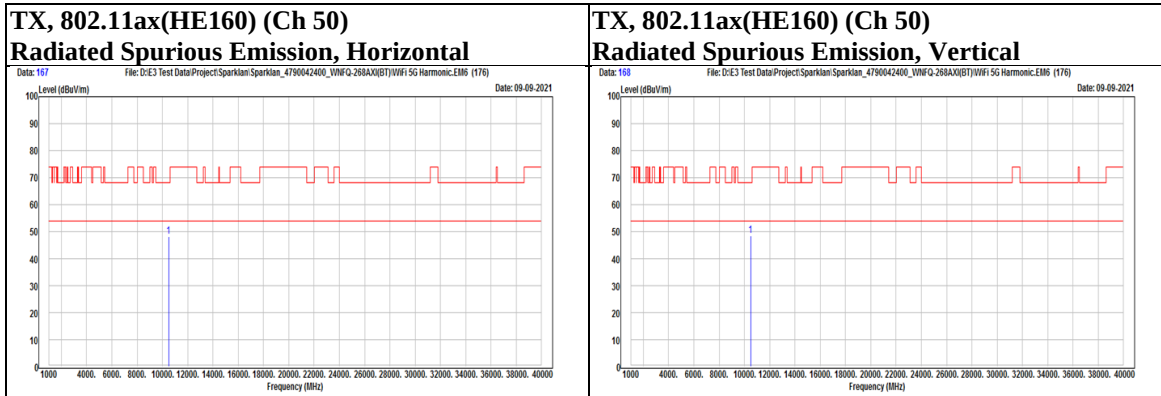
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Mode	802.11ax(HE160)	Channel	114
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11140	30.92	18.38	49.3	74	-24.7	PK
Vertical	*	11140	29.8	18.38	48.18	74	-25.82	PK

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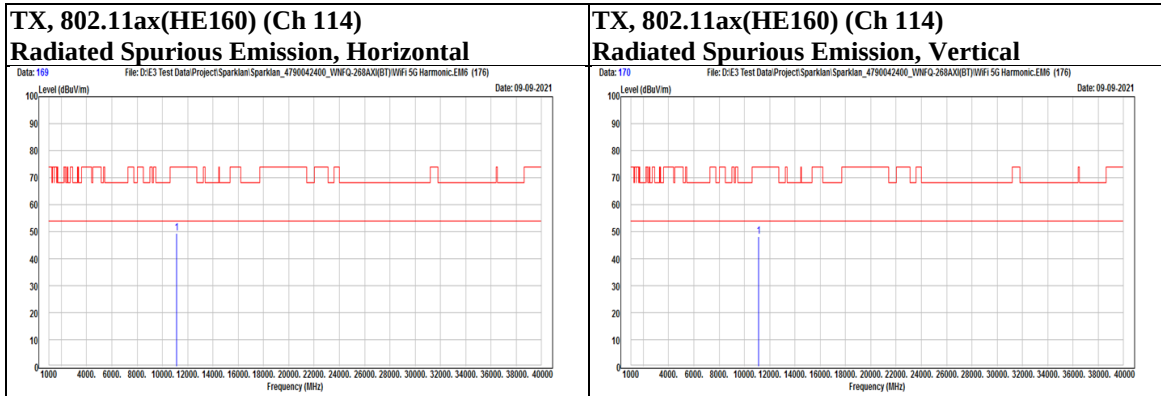
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Below 1 GHz

Mode	802.11a	Channel	149
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		99.84	41.51	-16.45	25.06	43.5	-18.44	PK
		144.46	39.38	-11.81	27.57	43.5	-15.93	PK
		232.73	42.99	-12.4	30.59	46	-15.41	PK
		298.69	47.27	-9.99	37.28	46	-8.72	PK
		365.62	36.55	-7.98	28.57	46	-17.43	PK
		498.51	36.88	-4.79	32.09	46	-13.91	PK
Vertical		144.46	37.75	-11.81	25.94	43.5	-17.56	PK
		199.75	45.87	-13.91	31.96	43.5	-11.54	PK
		298.69	42.77	-9.99	32.78	46	-13.22	PK
		398.6	35.96	-7.06	28.9	46	-17.1	PK
		482.02	40.81	-5.1	35.71	46	-10.29	PK
		498.51	38.31	-4.79	33.52	46	-12.48	PK

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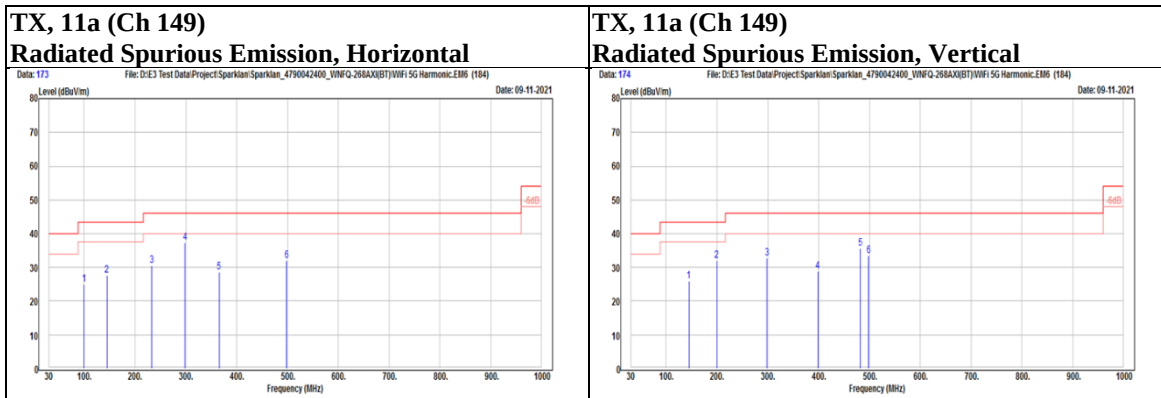
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Conducted method

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

Conducted Measurement Reading value has been considered factor offset during the test, detail information as below:

- The composite gain will be used when signal support the correlated signal.
(Composite gain = Gain + Array Gain = 5 + 10*log(2) = 8.01dBi)
- In restricted bands below 1000 MHz, add upper bound on ground plane reflection:
For f = 30 – 1000 MHz, add 4.7 dB.
- Following KDB 662911 D01, E)3a)(iii) Measure add 10*log(N_{ANT}) dB, where N_{ANT} is the number of outputs = 10*log(2) = 3.01dBi.

Conducted Measurement correct value is coming across equation for converting the Field Strength to EIRP, detail information as below:

- The test reading used dBuV, converted by dBm = dBuV–107dB. (Conversions for 50ohm systems)
- Emission Result (dBuV/m), converted by E (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8 dB.
Where d is the measurement distance, in 3 m.
Where dBm = dBuV–107 dB.

Thus:

$$\begin{aligned} E \text{ (dBuV/m)} &= \text{dBuV} - 107 - 20\log(3) + 104.8 \\ &= \text{dBuV} - 11.74 \end{aligned}$$

$$\text{Correct Factor} = -11.74 \text{ (dB/m)}$$

Above 1 GHz

Mode	802.11a	Channel	36
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TX Chain	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Chain 0		5149.8	77.46	-11.74	65.72	74	-8.28	PK
		5149.8	64.37	-11.74	52.63	54	-1.37	AVG
	@	5180	128.76	-11.74	117.02	N/A	N/A	PK
	@	5180	117.63	-11.74	105.89	N/A	N/A	AVG
		10360	57.45	-11.74	45.71	68.2	-22.49	PK
		10360	50.32	-11.74	38.58	54	-15.42	AVG
Chain 1		5149.1	68.01	-11.74	56.27	74	-17.73	PK
		5149.8	61.46	-11.74	49.72	54	-4.28	AVG
	@	5180	121.5	-11.74	109.76	N/A	N/A	PK
	@	5180	115.43	-11.74	103.69	N/A	N/A	AVG
		10360	57.3	-11.74	45.56	68.2	-22.64	PK
		10360	50.57	-11.74	38.83	54	-15.17	AVG

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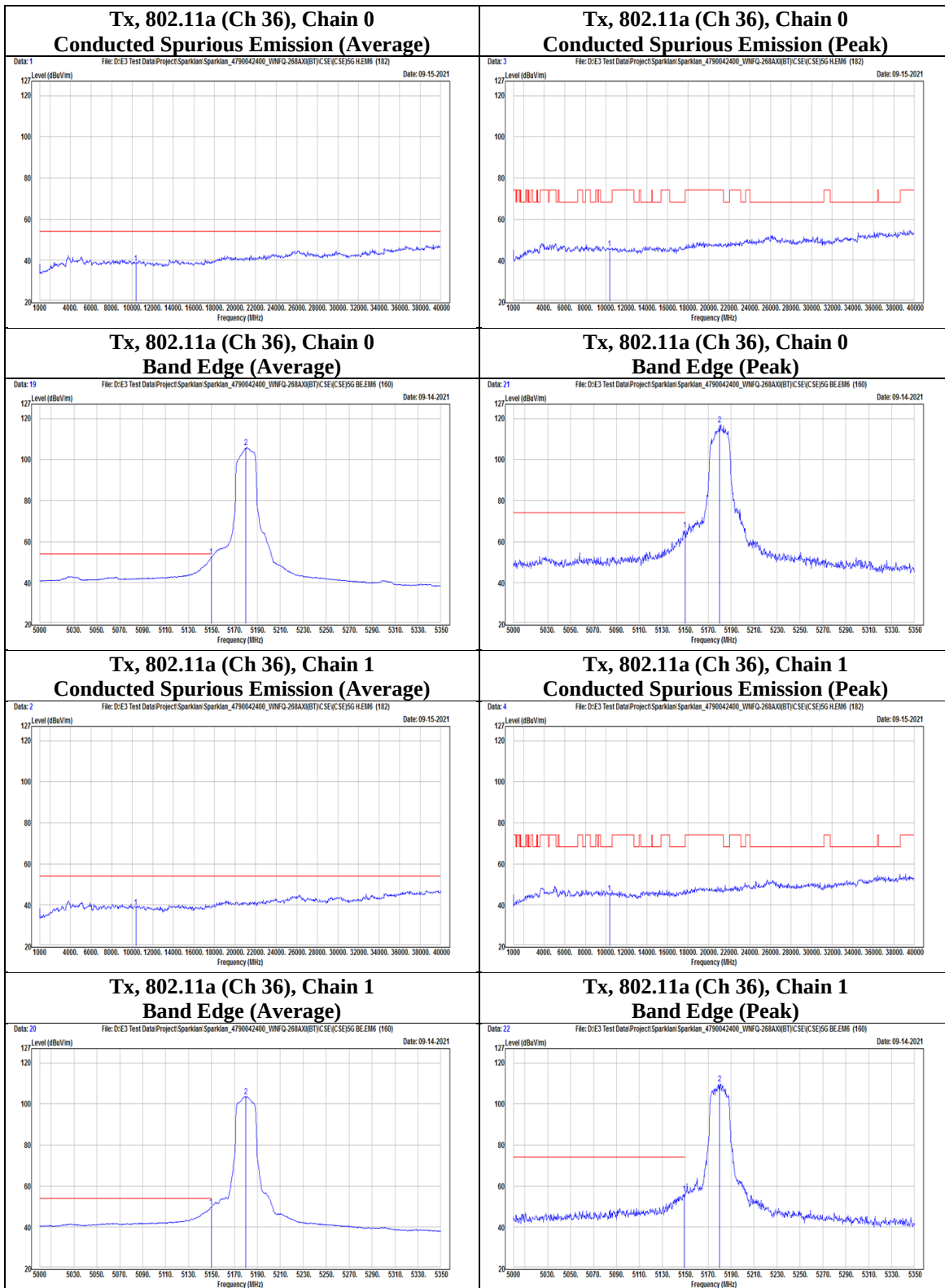
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Mode	802.11a	Channel	44
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5131.6	77.44	-11.74	65.7	74	-8.3	PK
		5134.05	61.57	-11.74	49.83	54	-4.17	AVG
	@	5220	130.83	-11.74	119.09	N/A	N/A	PK
	@	5220	121.03	-11.74	109.29	N/A	N/A	AVG
		10440	57.26	-11.74	45.52	68.2	-22.68	PK
		10440	51.07	-11.74	39.33	54	-14.67	AVG
Chain 1		5137.2	61.5	-11.74	49.76	74	-24.24	PK
		5149.1	55.09	-11.74	43.35	54	-10.65	AVG
	@	5220	123.81	-11.74	112.07	N/A	N/A	PK
	@	5220	118.9	-11.74	107.16	N/A	N/A	AVG
		10440	57.43	-11.74	45.69	68.2	-22.51	PK
		10440	50.55	-11.74	38.81	54	-15.19	AVG

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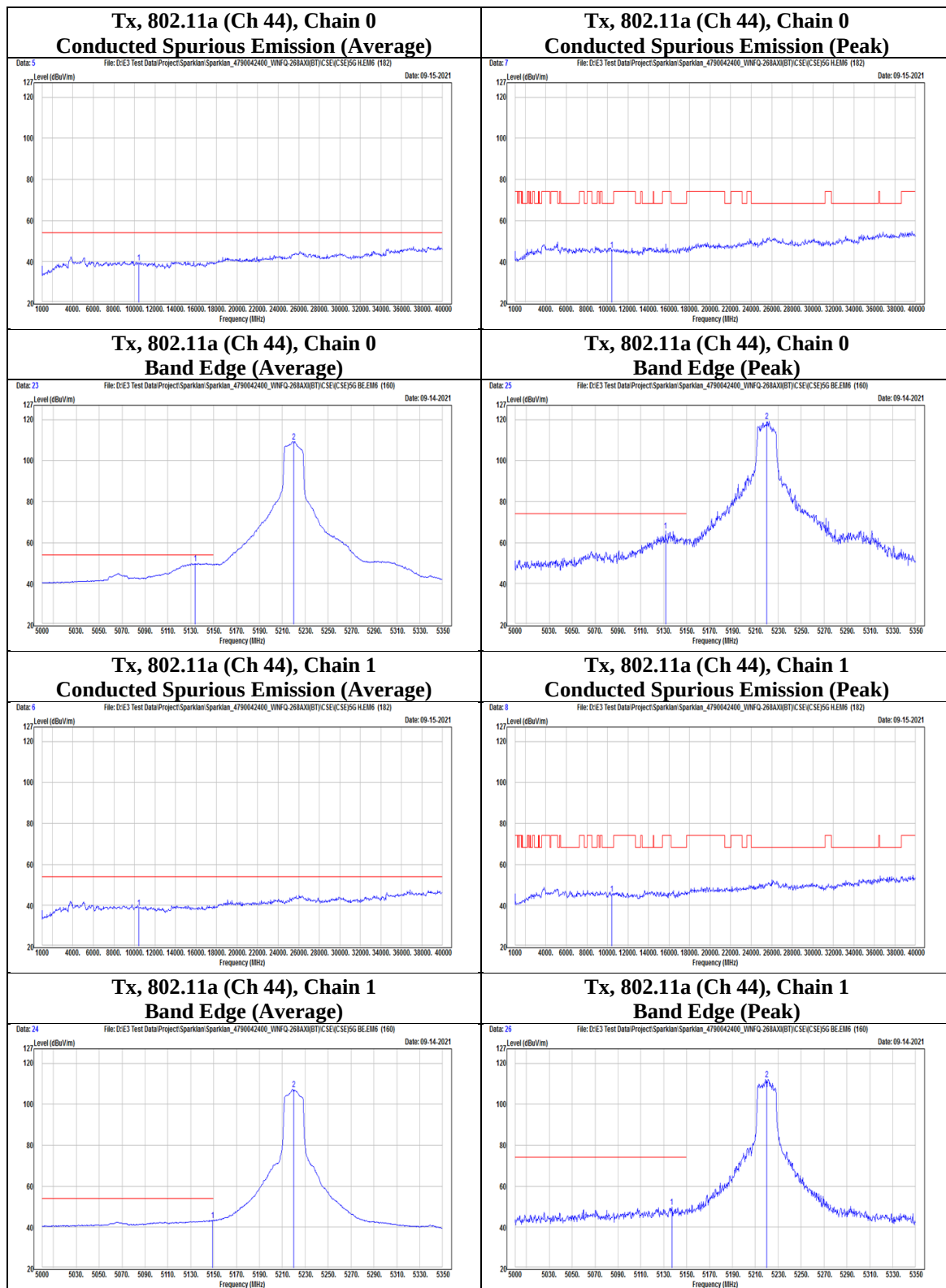
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Mode	802.11a	Channel	48
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TX Chain	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Chain 0		5149.45	84.08	-11.74	72.34	74	-1.66	PK
		5149.8	58.08	-11.74	46.34	54	-7.66	AVG
	@	5240	131.97	-11.74	120.23	N/A	N/A	PK
	@	5240	121.05	-11.74	109.31	N/A	N/A	AVG
		10480	57.17	-11.74	45.43	68.2	-22.77	PK
		10480	51.66	-11.74	39.92	54	-14.08	AVG
Chain 1		5086.1	54.38	-11.74	42.64	54	-11.36	AVG
		5132.65	60.77	-11.74	49.03	74	-24.97	PK
	@	5240	124.35	-11.74	112.61	N/A	N/A	PK
	@	5240	118.8	-11.74	107.06	N/A	N/A	AVG
		10480	57.3	-11.74	45.56	68.2	-22.64	PK
		10480	51.46	-11.74	39.72	54	-14.28	AVG

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