Frequency Range : Below 1 GHz

Test Mode 802.11a : TX mode

Operating Frequency 5500 MHz (CH 100)

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. [1] (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
41.991	V	38.4	-8.6	29.8	40	10.2	QP
55.181	V	49.7	-13.5	36.2	40	3.8	QP
106.024	V	41.2	-7.9	33.3	43.5	10.2	QP
160.627	V	37.2	-7.1	30.1	43.5	13.4	QP
250.003	H	35.8	-7.9	27.9	46	18.1	QP
250.007	V	34.9	-7.9	27.0	46	19.0	QP
499.989	H	32.9	-2.2	30.7	46	15.3	QP

Test Mode 802.11a : TX mode

Operating Frequency 5580 MHz (CH 116)

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. [1] (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
39.129	V	37.5	-6.3	31.2	40	8.8	QP
55.197	V	49.6	-13.5	36.1	40	3.9	QP
108.165	V	42.2	-7.5	34.7	43.5	8.8	QP
160.261	V	36.2	-7.1	29.1	43.5	14.4	QP
249.994	V	34.2	-7.9	26.3	46	19.7	QP
250.000	H	36.9	-7.9	29.0	46	17.0	QP
499.986	H	29.3	-2.2	27.1	46	18.9	QP

Test Mode 802.11a : TX mode

Operating Frequency 5700 MHz (CH 140)

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. [1] (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
42.742	V	39.8	-9.2	30.6	40	9.4	QP
55.267	V	49.8	-13.5	36.3	40	3.7	QP
107.741	V	42.3	-7.6	34.7	43.5	8.8	QP
160.305	V	37.9	-7.1	30.8	43.5	12.7	QP
249.997	H	37.4	-7.9	29.5	46	16.5	QP
250.014	V	36.3	-7.9	28.4	46	17.6	QP
500.006	H	30.3	-2.2	28.1	46	17.9	QP

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain

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Frequency Range : Above 1 GHz

Test Mode 802.11a : TX mode
Operating Frequency 5260 MHz (CH 52)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.875	H	42.6	47.3	7.6	-	50.2	54.9	54	74	3.8	19.1
4799.889	V	41.0	47.3	7.6	-	48.6	54.9	54	74	5.4	19.1
5759.758	V	-	45.9	9.7	-	-	55.6	-	68.2	-	12.6
5759.942	H	-	44.5	9.7	-	-	54.2	-	68.2	-	14.0

Test Mode 802.11a : TX mode
Operating Frequency 5300 MHz (CH 60)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.896	V	40.7	46.6	7.6	-	48.3	54.2	54	74	5.7	19.8
4799.924	H	42.2	47.7	7.6	-	49.8	55.3	54	74	4.2	18.7

Test Mode 802.11a : TX mode
Operating Frequency 5320 MHz (CH 64)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.931	V	40.6	46.3	7.6	-	48.2	53.9	54	74	5.8	20.1
4799.931	H	42.2	47.3	7.6	-	49.8	54.9	54	74	4.2	19.1

Note(s) :
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

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Frequency Range : Above 1 GHz

Test Mode 802.11a : TX mode
Operating Frequency 5500 MHz (CH 100)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.924	V	41.0	46.5	7.6	-	48.6	54.1	54	74	5.4	19.9
4799.924	H	42.5	47.6	7.6	-	50.1	55.2	54	74	3.9	18.8

Test Mode 802.11a : TX mode
Operating Frequency 5580 MHz (CH 116)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.882	V	40.0	45.3	7.6	-	47.6	52.9	54	74	6.4	21.1
4799.903	H	41.0	46.3	7.6	-	48.6	53.9	54	74	5.4	20.1

Test Mode 802.11a : TX mode
Operating Frequency 5700 MHz (CH 140)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.824	H	41.1	46.5	7.6	-	48.7	54.1	54	74	5.3	19.9
4799.866	V	40.0	45.6	7.6	-	47.6	53.2	54	74	6.4	20.8

Note(s) :
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

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Frequency Range : Above 1 GHz

Test Mode 802.11n HT40 : TX mode
Operating Frequency 5270 MHz (CH 54)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.875	V	41.3	46.1	7.6	-	48.9	53.7	54	74	5.1	20.3
4799.944	H	42.8	47.3	7.6	-	50.4	54.9	54	74	3.6	19.1
5759.863	V	-	45.4	9.7	-	-	55.1	-	68.2	-	13.1
5759.876	H	-	44.7	9.7	-	-	54.4	-	68.2	-	13.8

Test Mode 802.11n HT40 : TX mode
Operating Frequency 5310 MHz (CH 62)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.882	V	41.7	46.5	7.6	-	49.3	54.1	54	74	4.7	19.9
4799.910	H	43.1	47.6	7.6	-	50.7	55.2	54	74	3.3	18.8
5759.819	V	-	45.6	9.7	-	-	55.3	-	68.2	-	12.9
5760.018	H	-	45.1	9.7	-	-	54.8	-	68.2	-	13.4

Note(s) :
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

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Frequency Range : Above 1 GHz

Test Mode 802.11n HT40 : TX mode
Operating Frequency 5510 MHz (CH 102)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.901	H	42.7	47.6	7.6	-	50.3	55.2	54	74	3.7	18.8
4799.915	V	41.3	46.5	7.6	-	48.9	54.1	54	74	5.1	19.9

Test Mode 802.11n HT40 : TX mode
Operating Frequency 5550 MHz (CH 110)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.894	H	41.0	46.7	7.6	-	48.6	54.3	54	74	5.4	19.7
4799.950	V	39.6	46.0	7.6	-	47.2	53.6	54	74	6.8	20.4

Test Mode 802.11n HT40 : TX mode
Operating Frequency 5670 MHz (CH 134)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4799.860	V	39	45.6	7.6	-	46.6	53.2	54	74	7.4	20.8
4799.887	H	40.4	46.0	7.6	-	48.0	53.6	54	74	6.0	20.4

Note(s) :
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

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Frequency Range : Above 1 GHz

Test Mode 802.11ac VHT80 : TX mode
Operating Frequency 5290 MHz (CH 58)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5759.866	H	-	48.7	9.7	-	-	58.4	-	68.2	-	9.8
5759.900	V	-	48.0	9.7	-	-	57.7	-	68.2	-	10.5

Test Mode 802.11ac VHT80 : TX mode
Operating Frequency 5530 MHz (CH 106)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5279.872	H	42.7	47.6	9.1	-	51.8	56.7	54	74	2.2	17.3
5279.916	V	40.5	45.0	9.1	-	49.6	54.1	54	74	4.4	19.9
5759.828	V	-	48.3	9.7	-	-	58.0	-	68.2	-	10.2
5759.857	H	-	49.0	9.7	-	-	58.7	-	68.2	-	9.5

Test Mode 802.11ac VHT80 : TX mode
Operating Frequency 5610 MHz (CH 122)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5279.873	V	38.2	44.2	9.1	-	47.3	53.3	54	74	6.7	20.7
5279.926	H	40.8	46.0	9.1	-	49.9	55.1	54	74	4.1	18.9
5759.741	V	-	47.9	9.7	-	-	57.6	-	68.2	-	10.6
5759.940	H	-	47.9	9.7	-	-	57.6	-	68.2	-	10.6

Test Mode 802.11ac VHT160 : TX mode
Operating Frequency 5570 MHz (CH 114)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
4888.295	H	34.4	43.1	7.9	-	42.3	51.0	54	74	11.7	23.0
5246.416	V	33.7	42.4	9.1	-	42.8	51.5	54	74	11.2	22.5
5759.776	V	-	47.5	9.7	-	-	57.2	-	68.2	-	11.0
5759.812	H	-	49.1	9.7	-	-	58.8	-	68.2	-	9.4

Note(s) :
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

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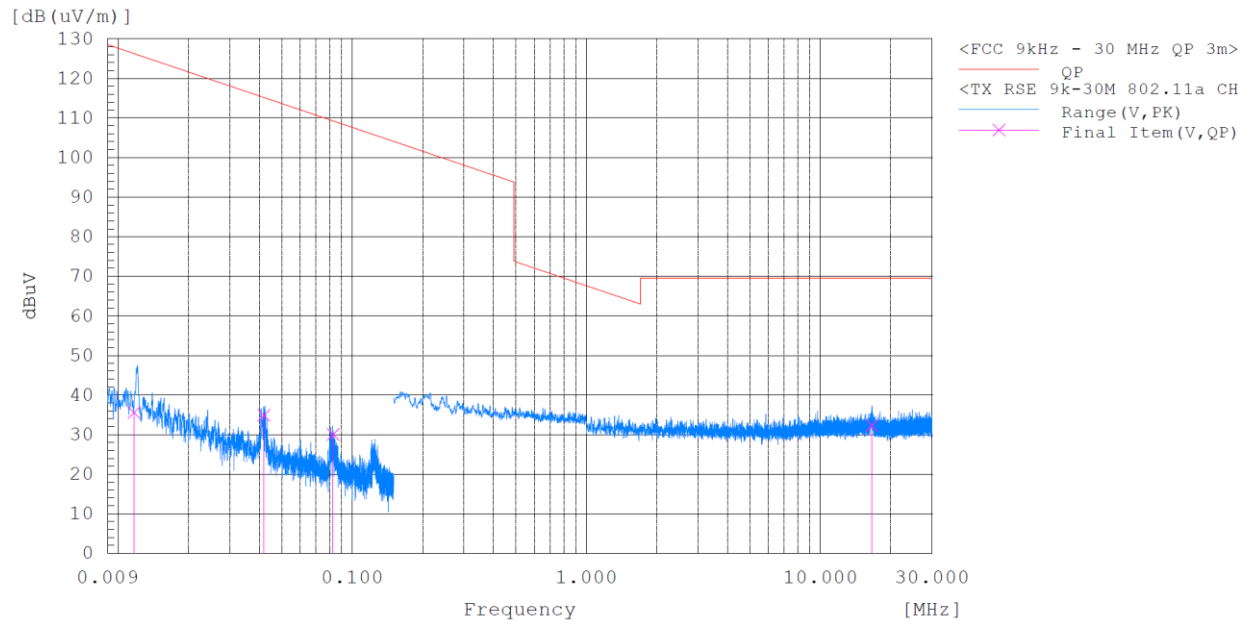
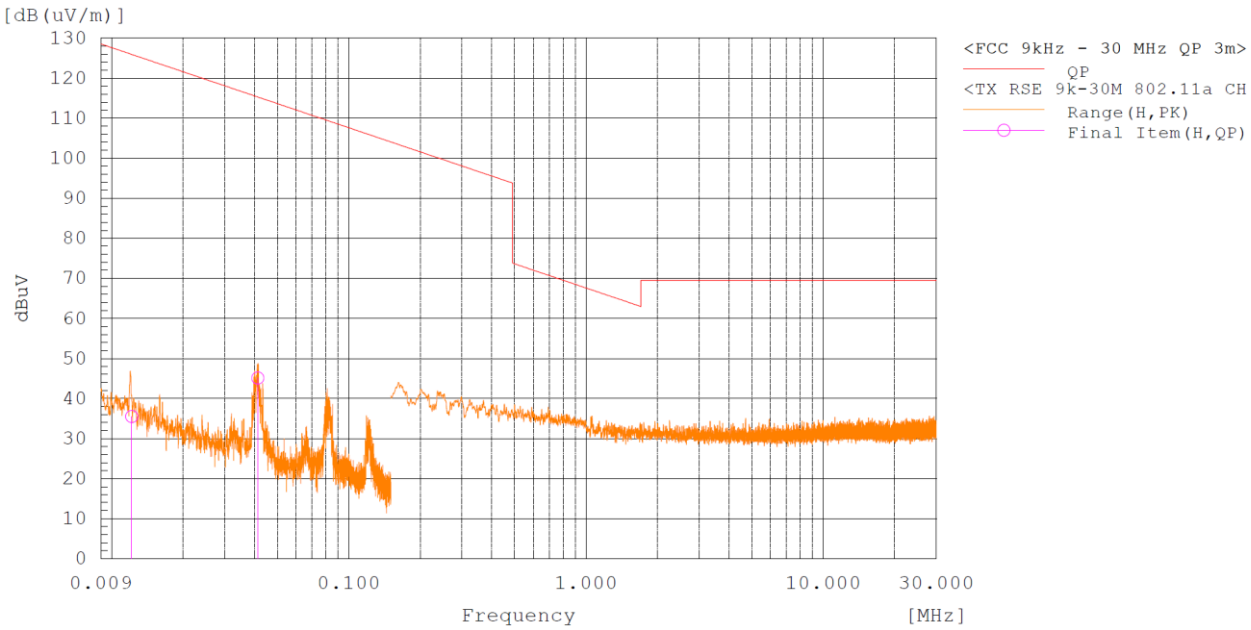
▣ TEST PLOTS

Radiated Spurious Emission 9 kHz – 30 MHz (Antenna Position 90°) : U-NII 2a


Radiated Spurious Emission 9 kHz – 30 MHz (Antenna Position 180°) : U-NII 2a


Note:
The worst-case plots are included in this report.

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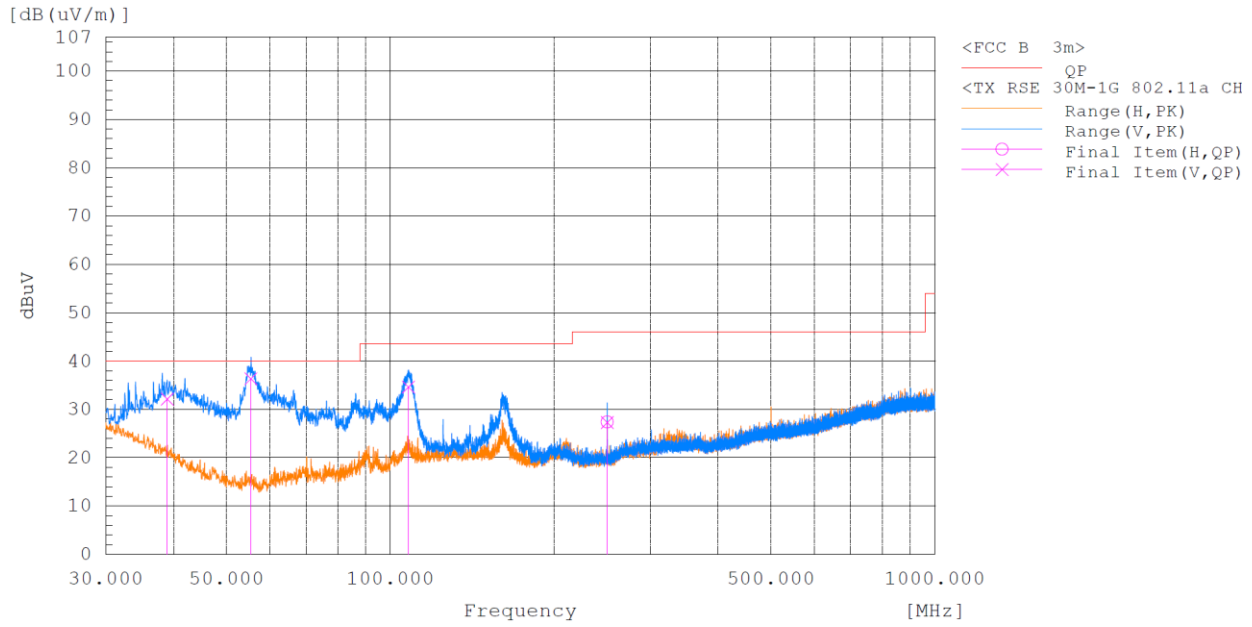
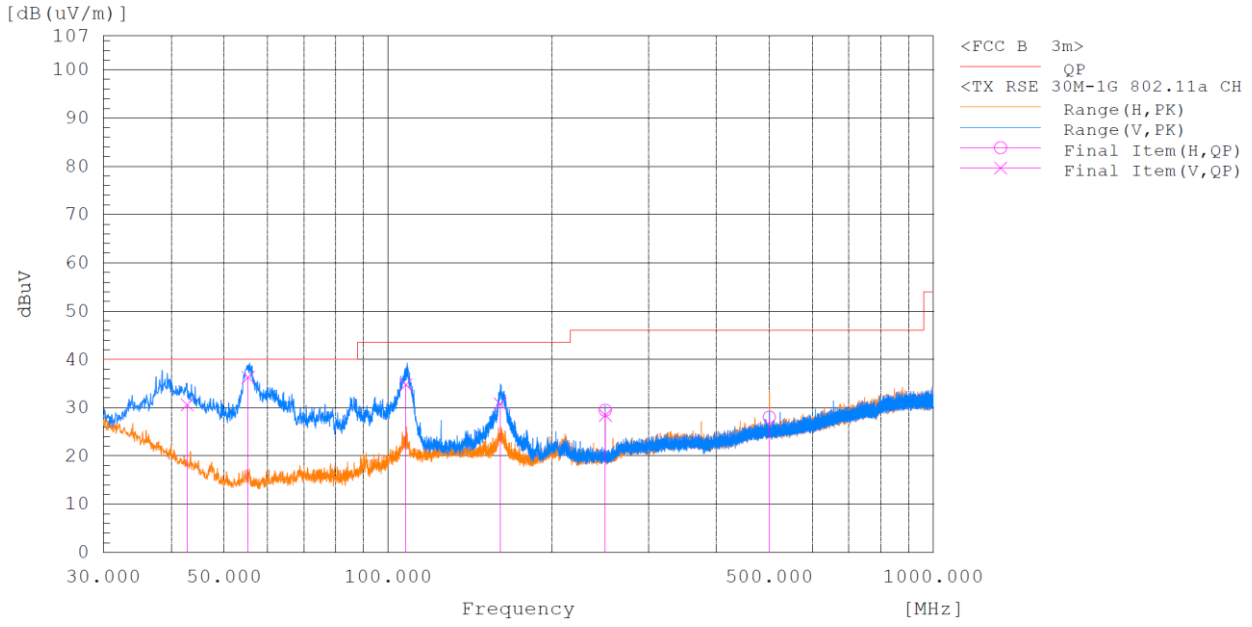
Radiated Spurious Emission 30 MHz – 1 GHz : 802.11a (CH 52)



Radiated Spurious Emission 30 MHz – 1 GHz : 802.11a (CH 100)



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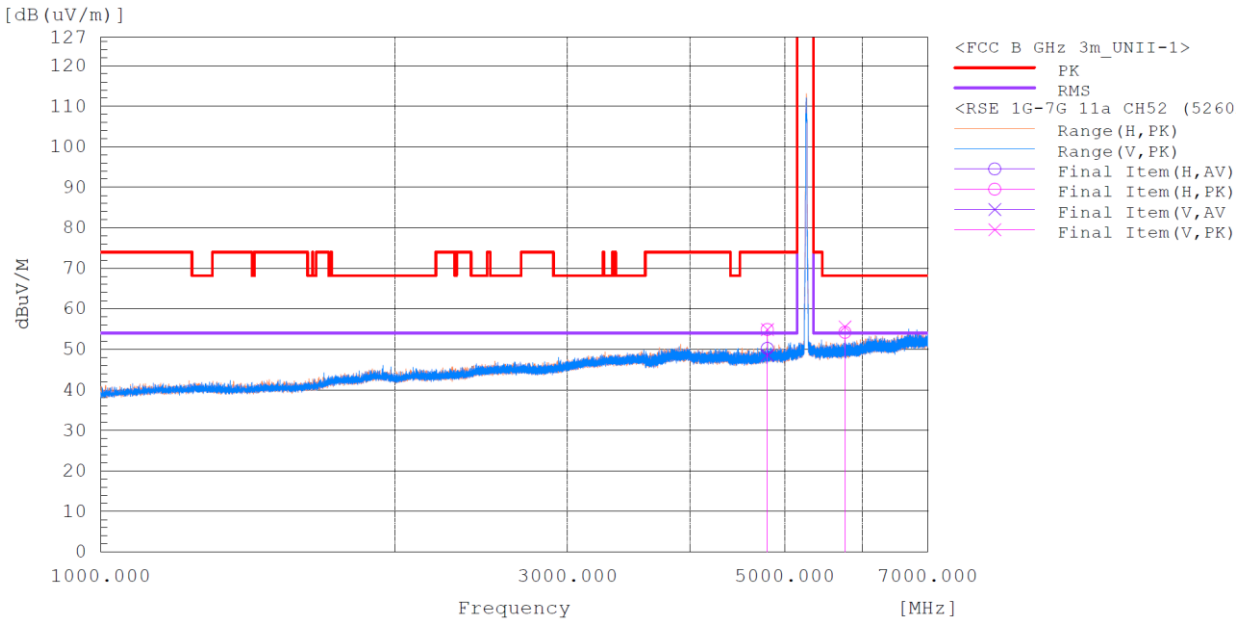
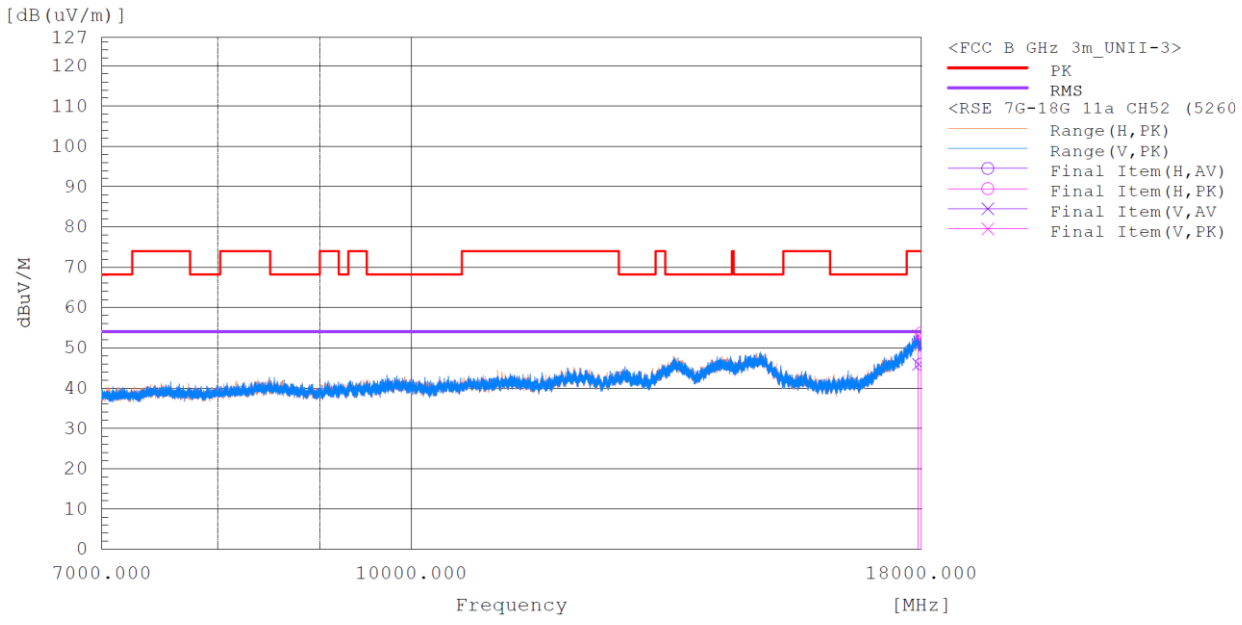
▣ TEST PLOTS

Radiated Spurious Emission 1 GHz - 7 GHz : 802.11a (CH 52)



Radiated Spurious Emission 7 GHz - 18 GHz : 802.11a (CH 52)



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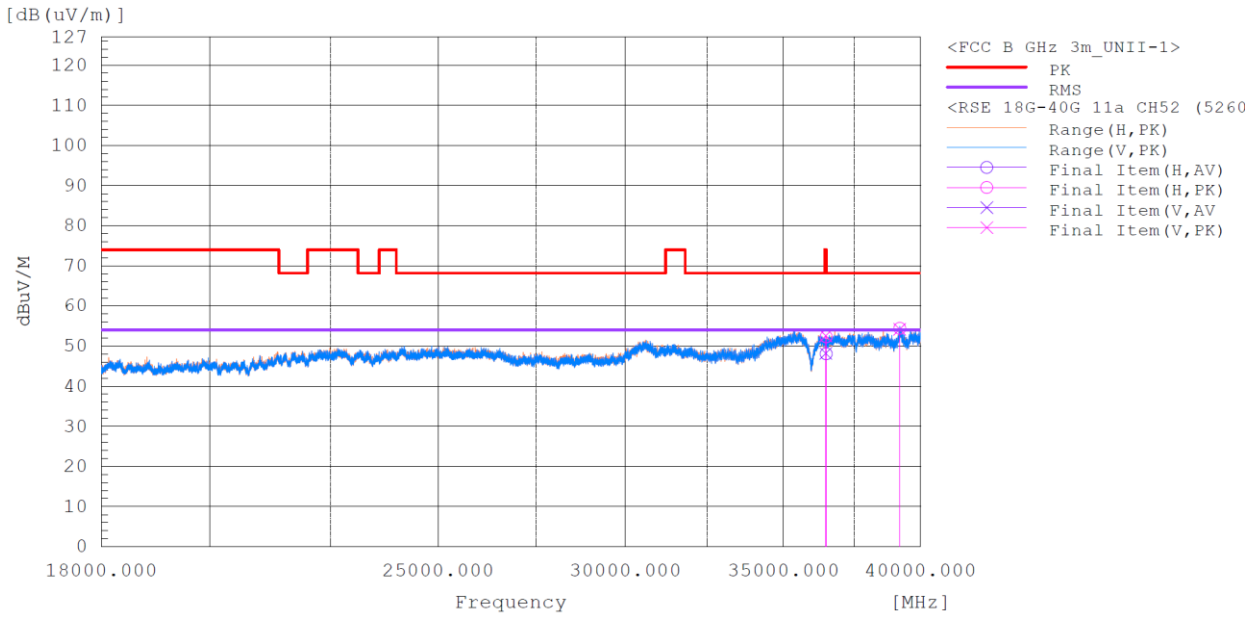
▣ TEST PLOTS

Radiated Spurious Emission 18 GHz - 40 GHz : 802.11a (CH 52)



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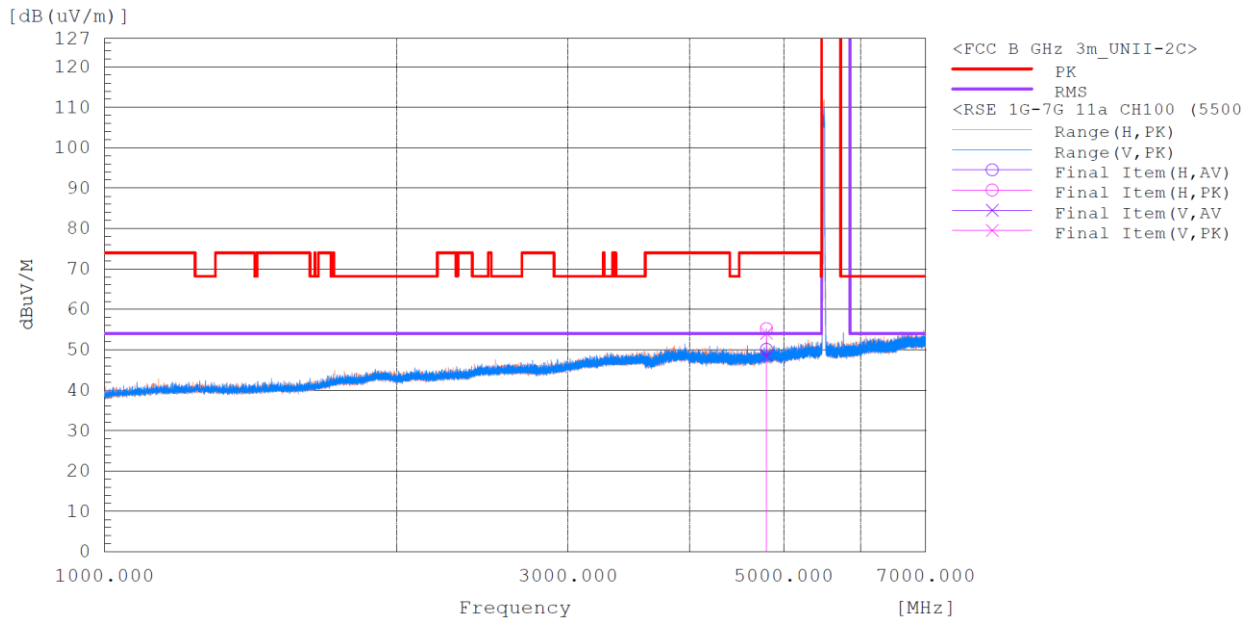
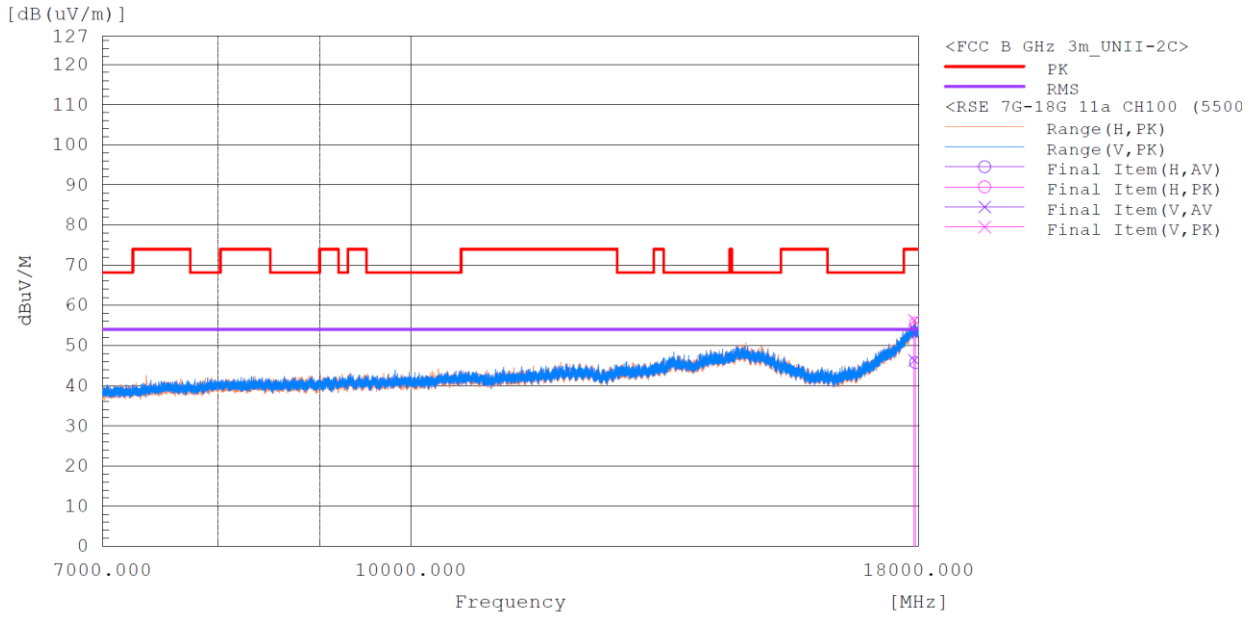
▣ TEST PLOTS

Radiated Spurious Emission 1 GHz - 7 GHz : 802.11a (CH 100)



Radiated Spurious Emission 7 GHz - 18 GHz : 802.11a (CH 100)



Note:
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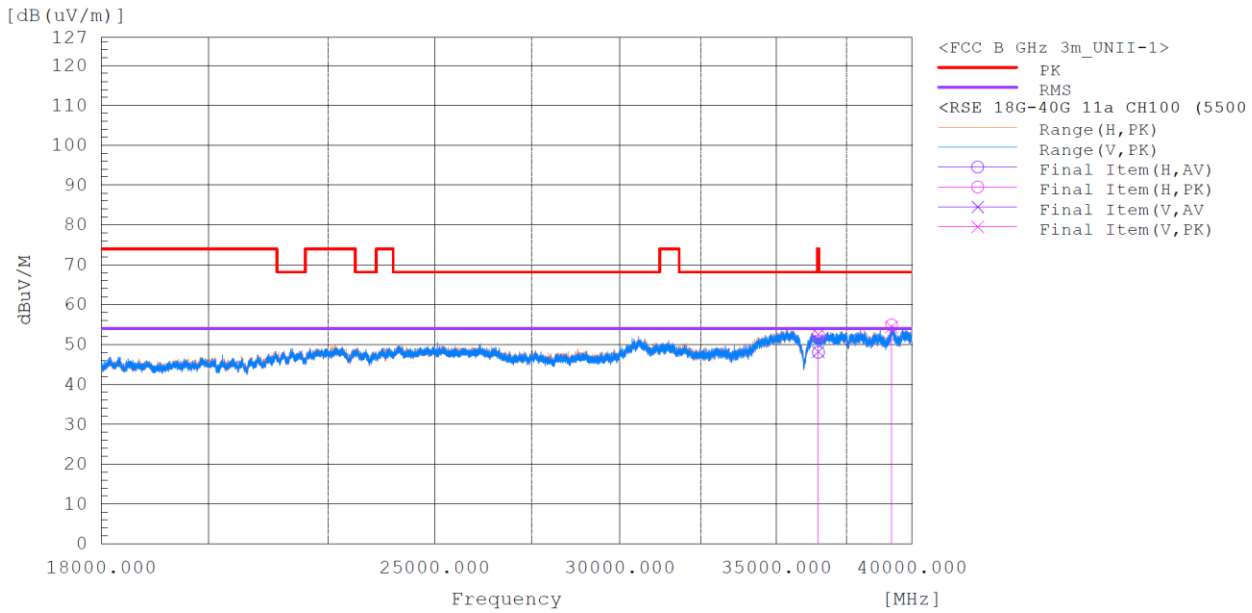
▣ TEST PLOTS

Radiated Spurious Emission 18 GHz - 40 GHz : 802.11a (CH 100)



Note:
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9.7 RADIATED RESTRICTED BAND EDGES

Test Mode 802.11a : TX mode

Operating Frequency 5320 MHz (CH 64)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5350.027	V	31.9	42.1	9.3	0.7	41.9	51.4	54	74	12.1	22.6
5350.072	H	31.9	41.7	9.3	0.7	41.9	51.0	54	74	12.1	23.0

Test Mode 802.11n HT20 : TX mode

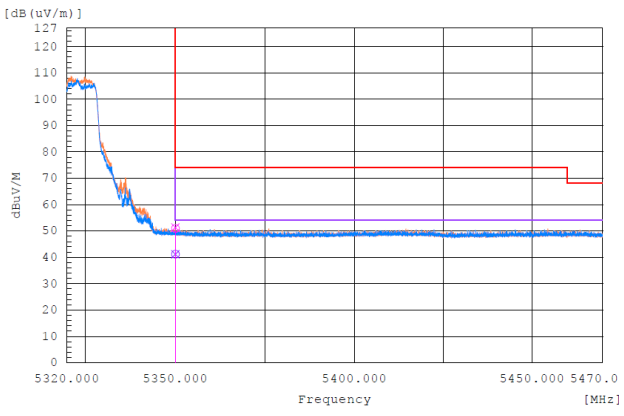
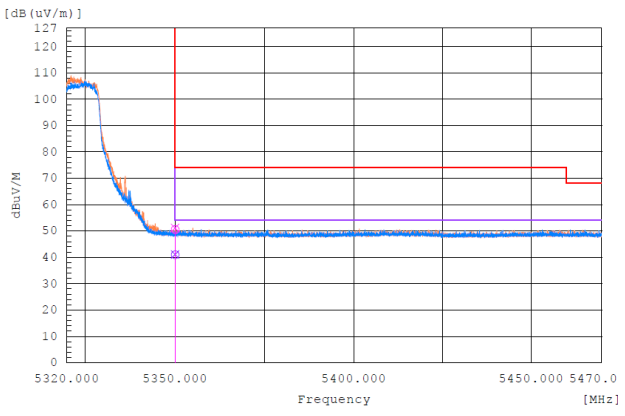
Operating Frequency 5320 MHz (CH 64)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5350.031	V	31.8	41.9	9.3	0.4	41.5	51.2	54	74	12.5	22.8
5350.080	H	31.7	41.3	9.3	0.4	41.4	50.6	54	74	12.6	23.4

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11a (CH 64) - High	Radiated Band Edges 802.11n HT20 (CH 64) - High
	

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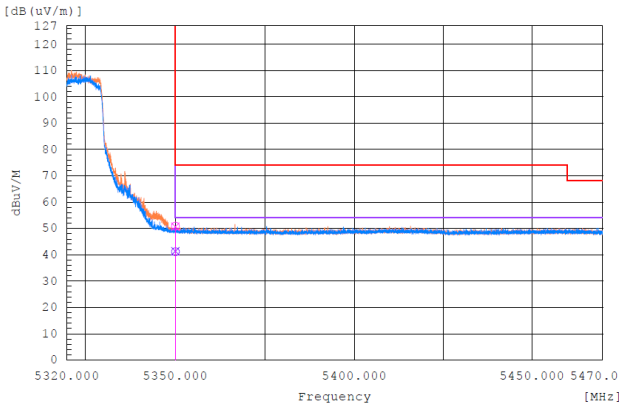
Test Mode	802.11ax HE20 : TX mode
Operating Frequency	5320 MHz (CH 64)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5350.027	V	32.1	41.4	9.3	0.2	41.6	50.7	54	74	12.4	23.3
5350.070	H	31.9	41.6	9.3	0.2	41.4	50.9	54	74	12.6	23.1

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ax HE20 (CH 64) - High	
	

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Test Mode 802.11n HT40 : TX mode

Operating Frequency 5310 MHz (CH 62)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5350.000	V	40.4	49.7	9.3	0.4	50.1	59.0	54	74	3.9	15.0
5350.056	H	42.7	54.4	9.3	0.4	52.4	63.7	54	74	1.6	10.3

Test Mode 802.11ax HE40 : TX mode

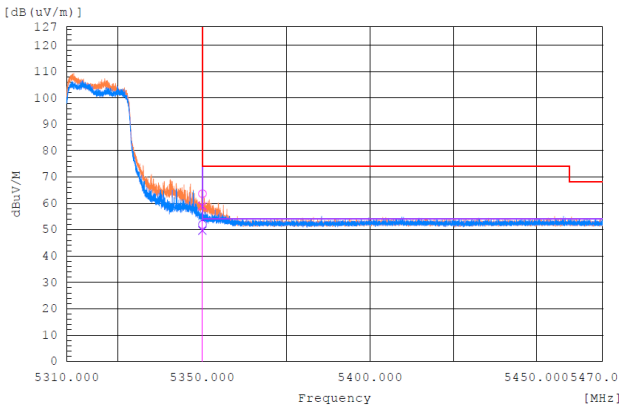
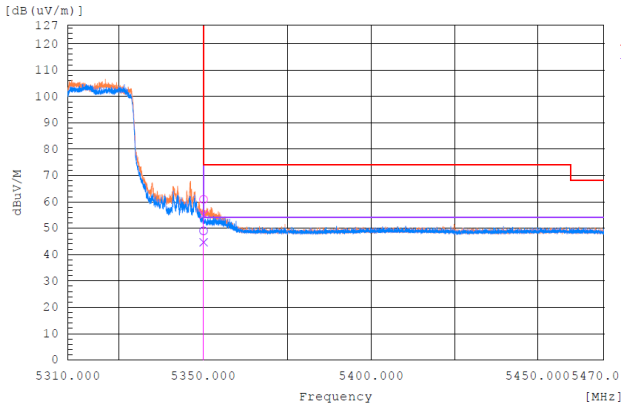
Operating Frequency 5310 MHz (CH 62)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5350.063	V	35.4	45.9	9.3	0.2	44.9	55.2	54	74	9.1	18.8
5350.023	H	39.7	51.7	9.3	0.2	49.2	61.0	54	74	4.8	13.0

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11n HT40 (CH 62) - High	Radiated Band Edges 802.11ax HE40 (CH 62) - High
	

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Test Mode 802.11ac VHT80 : TX mode

Operating Frequency 5290 MHz (CH 58)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5350.209	V	36.9	46.0	9.3	0.4	46.6	55.3	54	74	7.4	18.7
5350.321	H	42.8	53.5	9.3	0.4	52.5	62.8	54	74	1.5	11.2

Test Mode 802.11ax HE80 : TX mode

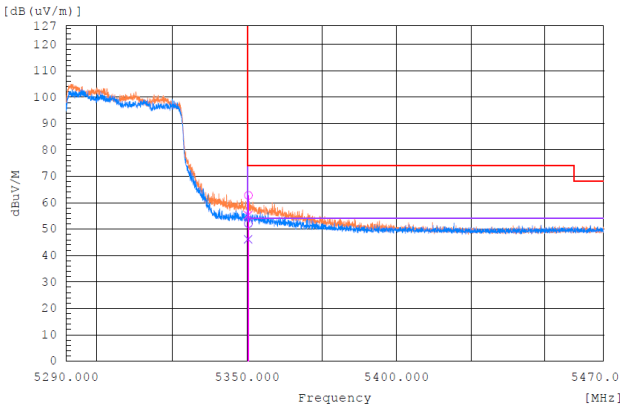
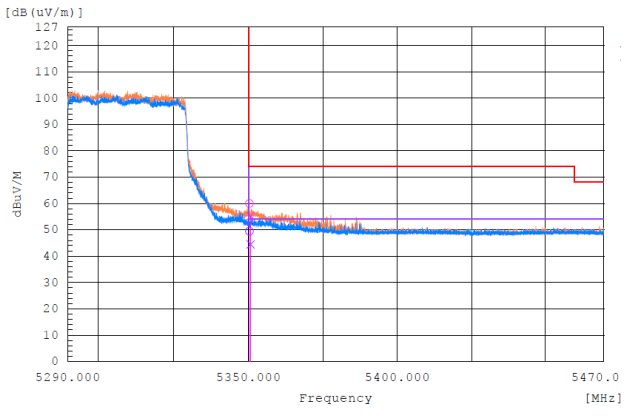
Operating Frequency 5290 MHz (CH 58)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5350.273	H	40.2	50.7	9.3	0.3	49.8	60.0	54	74	4.3	14.0
5350.625	V	35.2	45.9	9.3	0.3	44.8	55.2	54	74	9.3	18.8

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ac VHT80 (CH 58) - High	Radiated Band Edges 802.11ax HE80 (CH 58) - High
	

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Test Mode 802.11a : TX mode

Operating Frequency 5500 MHz (CH 100)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5458.564	V	31.3	41.1	9.6	0.7	41.6	50.7	54	74	12.4	23.3
5458.858	H	31.3	41.3	9.6	0.7	41.6	50.9	54	74	12.4	23.1

Test Mode 802.11a : TX mode

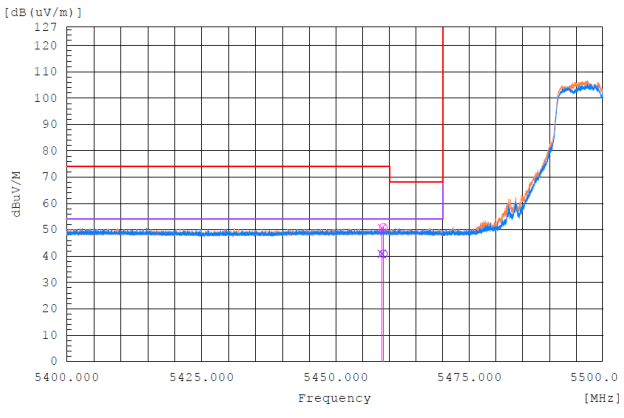
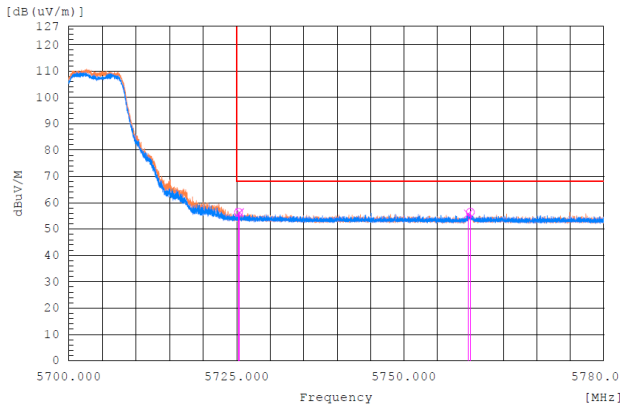
Operating Frequency 5700 MHz (CH 140)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5725.262	H	-	46.7	9.7	-	-	56.4	-	68.2	-	11.8
5725.435	V	-	46.6	9.7	-	-	56.3	-	68.2	-	11.9
5759.610	V	-	46.2	9.7	-	-	55.9	-	68.2	-	12.3
5759.965	H	-	46.7	9.7	-	-	56.4	-	68.2	-	11.8

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11a (CH 100) – Low	Radiated Band Edges 802.11a (CH 140) – High
	

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Test Mode 802.11n HT20 : TX mode

Operating Frequency 5500 MHz (CH 100)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5457.615	H	31.5	41.5	9.6	0.4	41.5	51.1	54	74	12.5	22.9
5458.118	V	31.4	41.1	9.6	0.4	41.4	50.7	54	74	12.6	23.3

Test Mode 802.11n HT20 : TX mode

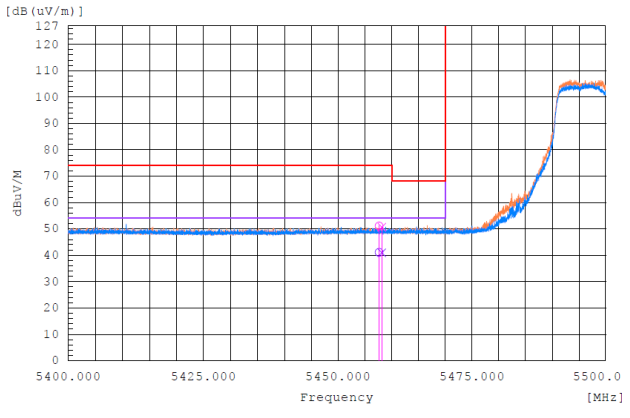
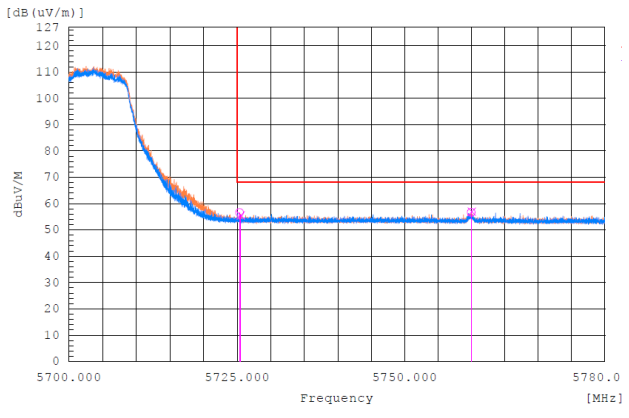
Operating Frequency 5700 MHz (CH 140)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5725.348	H	-	47.0	9.7	-	-	56.7	-	68.2	-	11.5
5725.500	V	-	45.9	9.7	-	-	55.6	-	68.2	-	12.6
5759.952	H	-	47.0	9.7	-	-	56.7	-	68.2	-	11.5
5760.009	V	-	47.3	9.7	-	-	57.0	-	68.2	-	11.2

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11n HT20 (CH 100)- Low	Radiated Band Edges 802.11n HT20 (CH 140) – High
	

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Test Mode 802.11ax HE20 : TX mode
Operating Frequency 5500 MHz (CH 100)

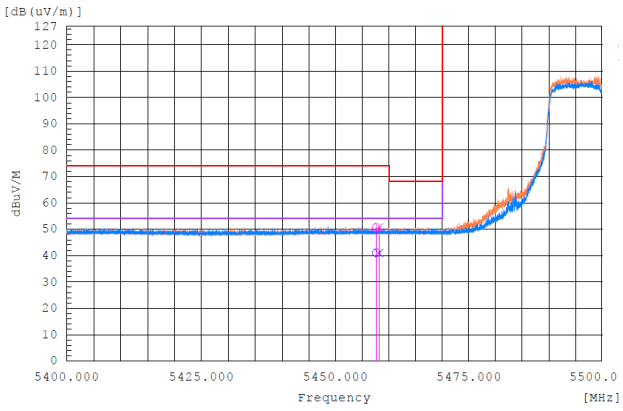
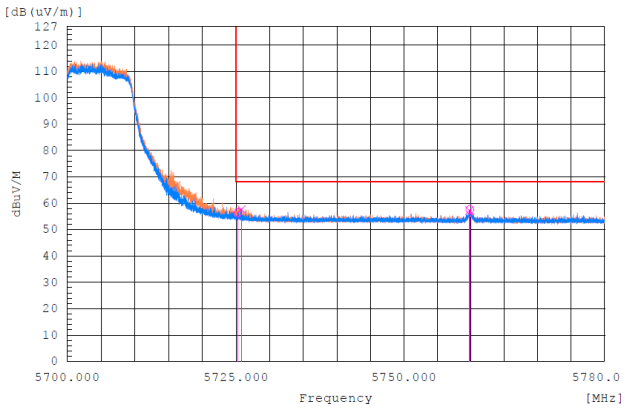
Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5457.608	H	31.5	41.2	9.6	0.2	41.3	50.8	54	74	12.7	23.2
5458.118	V	31.3	41.2	9.6	0.2	41.1	50.8	54	74	12.9	23.2

Test Mode 802.11ax HE20 : TX mode
Operating Frequency 5700 MHz (CH 140)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5725.288	H	-	46.7	9.7	-	-	56.4	-	68.2	-	11.8
5725.785	V	-	47.9	9.7	-	-	57.6	-	68.2	-	10.6
5759.746	V	-	47.6	9.7	-	-	57.3	-	68.2	-	10.9
5759.839	H	-	48.0	9.7	-	-	57.7	-	68.2	-	10.5

Note(s) :
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ax HE20 (CH 100) – Low	Radiated Band Edges 802.11ax HE20 (CH 140) – High
	

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Test Mode	802.11n HT40 : TX mode
Operating Frequency	5510 MHz (CH 102)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5459.987	V	37.7	45.7	9.6	0.4	47.7	55.3	54	74	6.3	18.7
5460.000	H	41.1	51.8	9.6	0.4	51.1	61.4	54	74	2.9	12.6
5469.272	V	-	51.1	9.6	-	-	60.7	-	68.2	-	7.5
5469.970	H	-	57.6	9.6	-	-	67.2	-	68.2	-	1.0

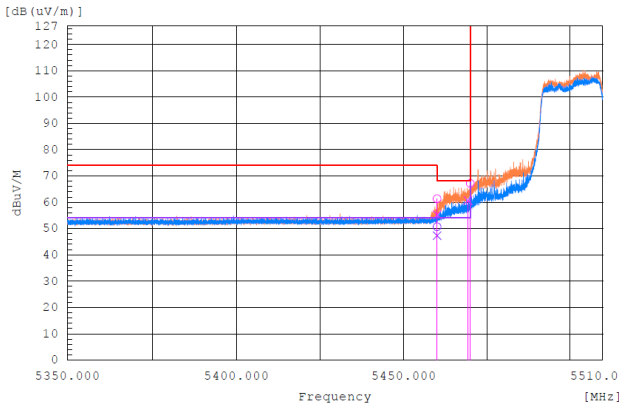
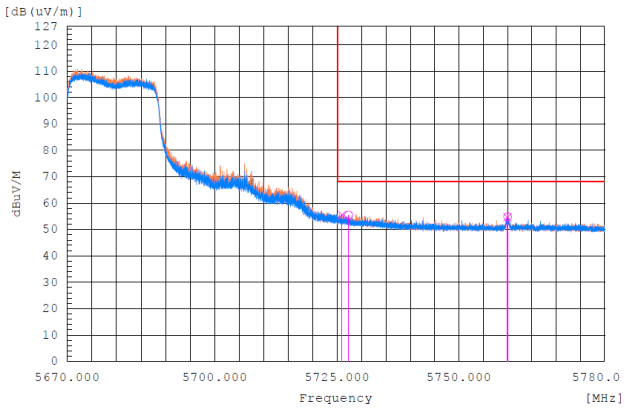
Test Mode	802.11n HT40 : TX mode
Operating Frequency	5670 MHz (CH 134)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5725.942	V	-	45.8	9.7	-	-	55.5	-	68.2	-	12.7
5727.346	H	-	45.8	9.7	-	-	55.5	-	68.2	-	12.7
5759.974	V	-	44.9	9.7	-	-	54.6	-	68.2	-	13.6
5759.998	H	-	45.1	9.7	-	-	54.8	-	68.2	-	13.4

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11n HT40 (CH 102) – Low	Radiated Band Edges 802.11n HT40 (CH 134) – High
	

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Test Mode 802.11ax HE40 : TX mode

Operating Frequency 5510 MHz (CH 102)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5459.676	V	35.7	48.9	9.6	0.2	45.5	58.5	54	74	8.5	15.5
5459.954	H	37.8	51.7	9.6	0.2	47.6	61.3	54	74	6.4	12.7
5467.941	V	-	52.2	9.6	-	-	61.8	-	68.2	-	6.4
5469.731	H	-	56.4	9.6	-	-	66.0	-	68.2	-	2.2

Test Mode 802.11ax HE40 : TX mode

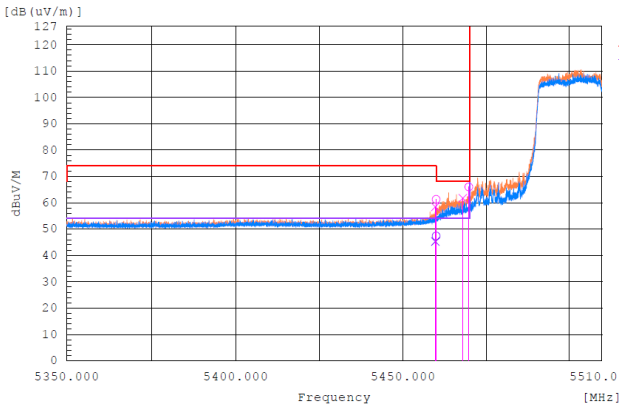
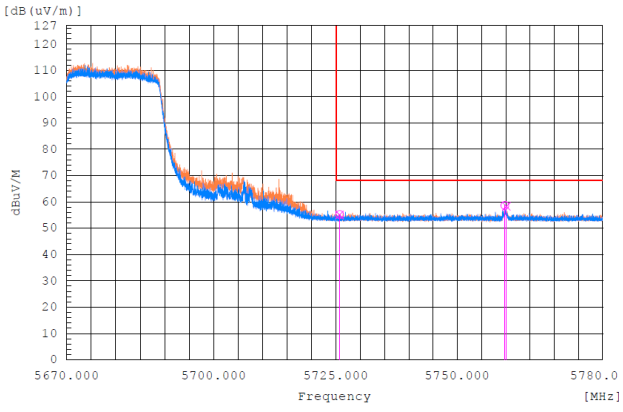
Operating Frequency 5670 MHz (CH 134)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5725.724	V	-	45.4	9.7	-	-	55.1	-	68.2	-	13.1
5725.782	H	-	45.5	9.7	-	-	55.2	-	68.2	-	13.0
5759.764	H	-	49.0	9.7	-	-	58.7	-	68.2	-	9.5
5760.077	V	-	48.7	9.7	-	-	58.4	-	68.2	-	9.8

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ax HE40 (CH 102) – Low	Radiated Band Edges 802.11ax HE40 (CH 134) – High
	

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Test Mode	802.11ac VHT80 : TX mode
Operating Frequency	5530 MHz (CH 106)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5437.497	H	38.2	51.4	9.6	0.4	48.2	61.0	54	74	5.8	13.0
5443.401	H	38.4	52.0	9.6	0.4	48.4	61.6	54	74	5.6	12.4
5457.820	V	39.7	48.7	9.6	0.4	49.7	58.3	54	74	4.3	15.7
5459.987	H	43.0	51.9	9.6	0.4	53.0	61.5	54	74	1.0	12.5
5464.139	V	-	50.2	9.6	-	-	59.8	-	68.2	-	8.4
5467.386	H	-	55.8	9.6	-	-	65.4	-	68.2	-	2.8

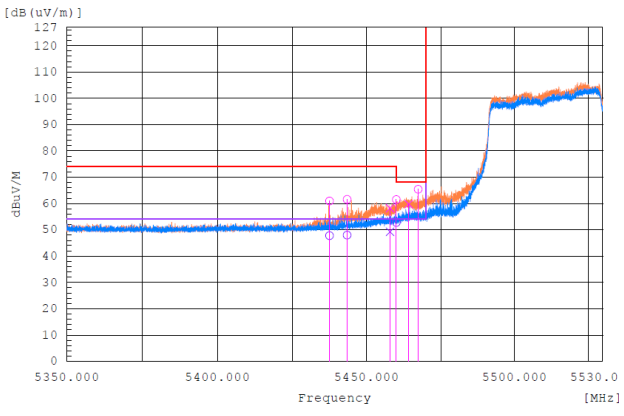
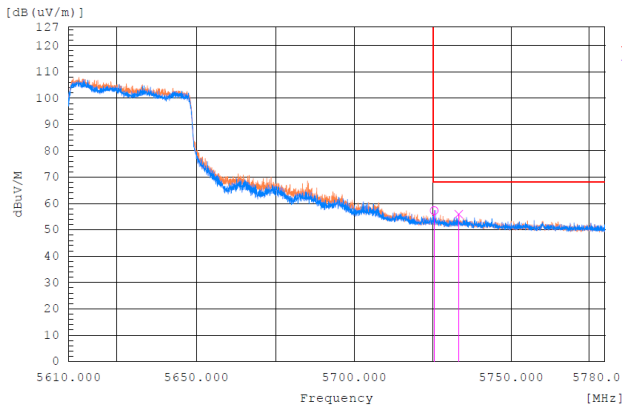
Test Mode	802.11ac VHT80 : TX mode
Operating Frequency	5610 MHz (CH 122)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5725.305	H	-	47.6	9.7	-	-	57.3	-	68.2	-	10.9
5733.173	V	-	46.3	9.7	-	-	56.0	-	68.2	-	12.2

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ac VHT80 (CH 106) – Low	Radiated Band Edges 802.11ac VHT80 (CH 122) – High
	

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Test Mode 802.11ax HE80 : TX mode

Operating Frequency 5530 MHz (CH 106)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5446.210	H	37.4	53.7	9.6	0.3	47.3	63.3	54	74	6.8	10.7
5459.666	H	39.8	53.0	9.6	0.3	49.7	62.6	54	74	4.4	11.4
5459.728	V	37.4	52.1	9.6	0.3	47.3	61.7	54	74	6.8	12.3
5462.777	H	-	55.1	9.6	-	-	64.7	-	68.2	-	3.5
5468.236	V	-	52.3	9.6	-	-	61.9	-	68.2	-	6.3

Test Mode 802.11ax HE80 : TX mode

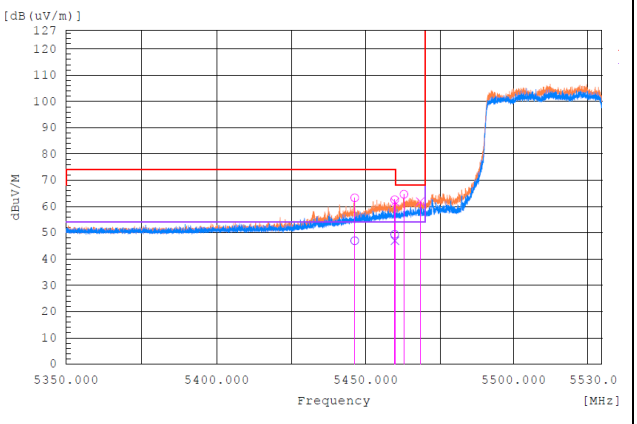
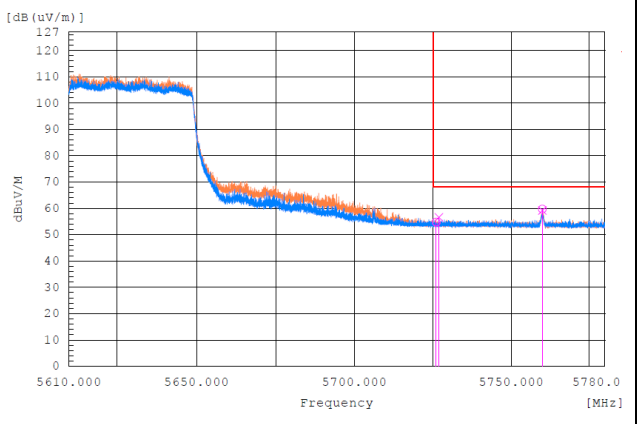
Operating Frequency 5610 MHz (CH 122)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5725.952	H	-	45.1	9.7	-	-	54.8	-	68.2	-	13.4
5726.796	V	-	47.0	9.7	-	-	56.7	-	68.2	-	11.5
5759.873	H	-	50.1	9.7	-	-	59.8	-	68.2	-	8.4
5759.866	V	-	49.5	9.7	-	-	59.2	-	68.2	-	9.0

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ax HE80 (CH 106) – Low	Radiated Band Edges 802.11ax HE80 (CH 122) – High
	

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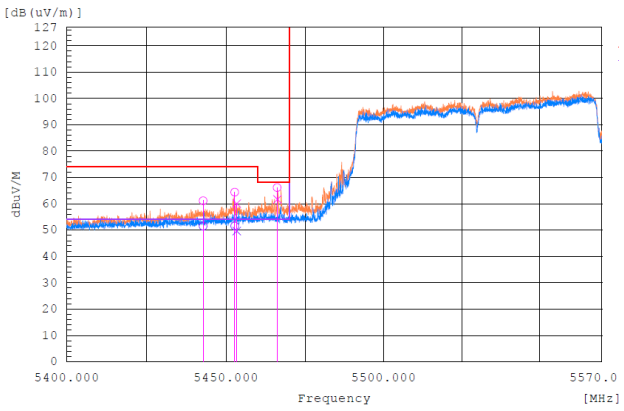
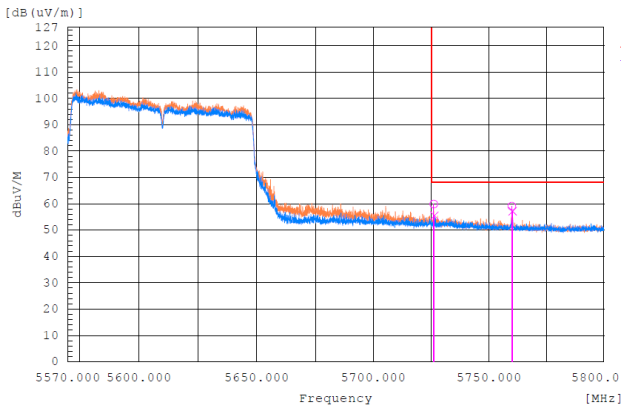
Test Mode	802.11ac VHT160 : TX mode
Operating Frequency	5570 MHz (CH 114)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5442.803	H	41.9	51.6	9.6	0.3	51.8	61.2	54	74	2.2	12.8
5452.796	H	42.0	54.8	9.6	0.3	51.9	64.4	54	74	2.1	9.6
5453.417	V	40.1	50.5	9.6	0.3	50.0	60.1	54	74	4.0	13.9
5466.212	H	-	56.6	9.6	-	-	66.2	-	68.2	-	2.0
5466.217	V	-	52.1	9.6	-	-	61.7	-	68.2	-	6.5
5726.014	H	-	50.2	9.7	-	-	59.9	-	68.2	-	8.3
5726.253	V	-	45.8	9.7	-	-	55.5	-	68.2	-	12.7
5759.844	H	-	49.4	9.7	-	-	59.1	-	68.2	-	9.1
5760.122	V	-	47.5	9.7	-	-	57.2	-	68.2	-	11.0

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ac VHT160 (CH 114) – Low	Radiated Band Edges 802.11ac VHT160 (CH 114) – High
	

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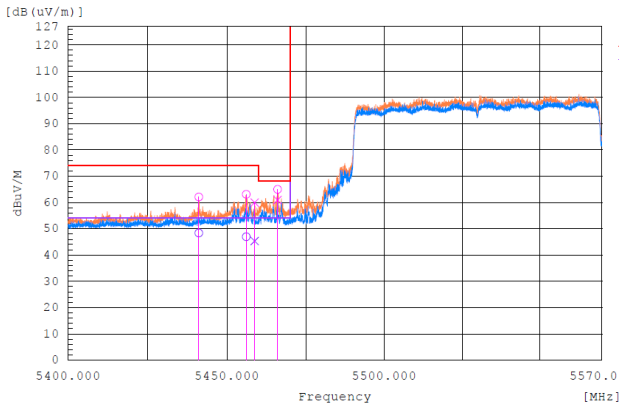
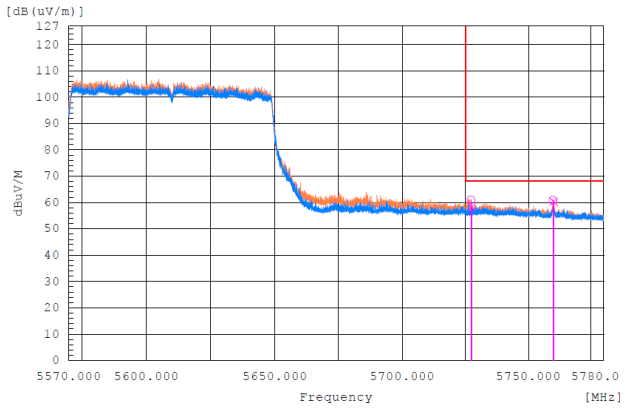
Test Mode	802.11ax HE160 : TX mode
Operating Frequency	5570 MHz (CH 114)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr.[1)]	Duty	AV	PK	AV	PK	AV	PK
5441.147	H	38.8	52.5	9.6	0.2	48.6	62.1	54	74	5.4	11.9
5456.125	H	37.4	53.5	9.6	0.2	47.2	63.1	54	74	6.8	10.9
5458.785	V	35.8	50.4	9.6	0.2	45.6	60.0	54	74	8.4	14.0
5466.043	V	-	51.4	9.6	-	-	61.0	-	68.2	-	7.2
5466.088	H	-	55.4	9.6	-	-	65.0	-	68.2	-	3.2
5727.197	H	-	51.3	9.7	-	-	61.0	-	68.2	-	7.2
5727.469	V	-	48.7	9.7	-	-	58.4	-	68.2	-	9.8
5759.739	H	-	51.2	9.7	-	-	60.9	-	68.2	-	7.3
5760.010	V	-	50.6	9.7	-	-	60.3	-	68.2	-	7.9

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS

Radiated Band Edges 802.11ax HE160 (CH 114) – Low	Radiated Band Edges 802.11ax HE160 (CH 114) – High
	

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9.8 RECEIVER SPURIOUS EMISSIONS

Frequency Range : Below 1 GHz

Test Mode 802.11a : TX mode

Operating Frequency 5260 MHz (CH 52)

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. 1) (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
38.819	V	38.2	-6.1	32.1	40	7.9	QP
55.234	V	49.3	-13.5	35.8	40	4.2	QP
107.871	V	42.9	-7.6	35.3	43.5	8.2	QP
160.448	V	37.0	-7.1	29.9	43.5	13.6	QP
250.008	H	36.0	-7.9	28.1	46	17.9	QP
250.023	V	36.2	-7.9	28.3	46	17.7	QP

Test Mode 802.11a : TX mode

Operating Frequency 5500 MHz (CH 100)

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. 1) (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
38.826	V	38.0	-6.1	31.9	40	8.1	QP
55.027	V	49.0	-13.5	35.5	40	4.5	QP
108.029	V	42.7	-7.5	35.2	43.5	8.3	QP
162.349	V	37.0	-7.2	29.8	43.5	13.7	QP
250.003	V	38.6	-7.9	30.7	46	15.3	QP
250.021	H	35.0	-7.9	27.1	46	18.9	QP

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Frequency Range : Above 1 GHz

Test Mode 802.11a : TX mode

Operating Frequency 5260 MHz (CH 52)

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. [1)] (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							RMS

Test Mode 802.11a : TX mode

Operating Frequency 5500 MHz (CH 100)

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. [1)] (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							RMS

Note:

1. Radiated receiver spurious emissions were measured upto fifth harmonics of the fundamental frequencies using RMS detector. No major peak was observed during scanning.
2. Correction Factor: Antenna Factor + Cable loss + Preamplifier

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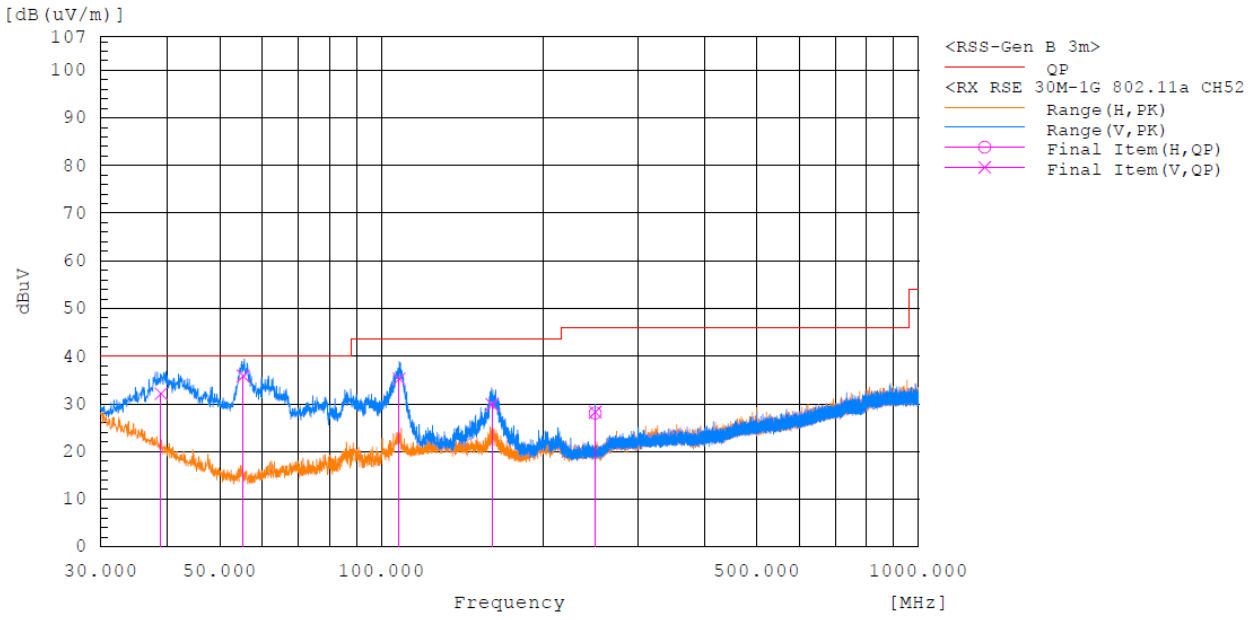
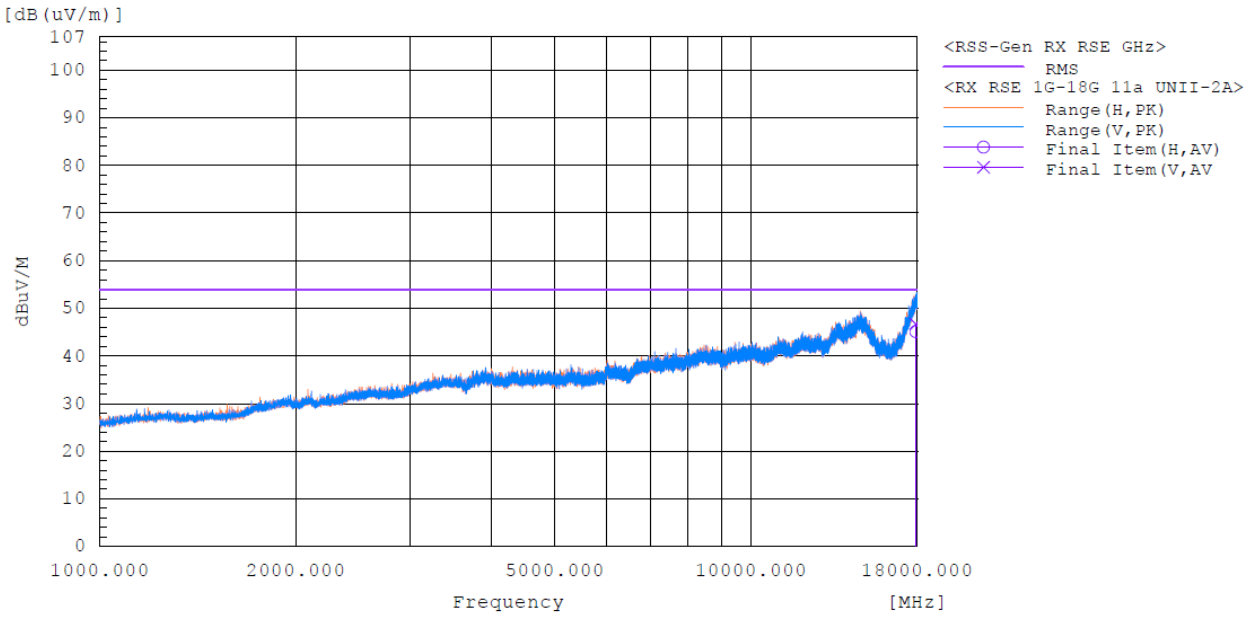
▣ TEST PLOTS

Radiated Receiver Spurious Emission 30 MHz - 1 GHz : 802.11a (CH 52)



Radiated Receiver Spurious Emission 1 GHz - 18 GHz : 802.11a (CH 52)



Note:
The worst-case plots are included in this report.

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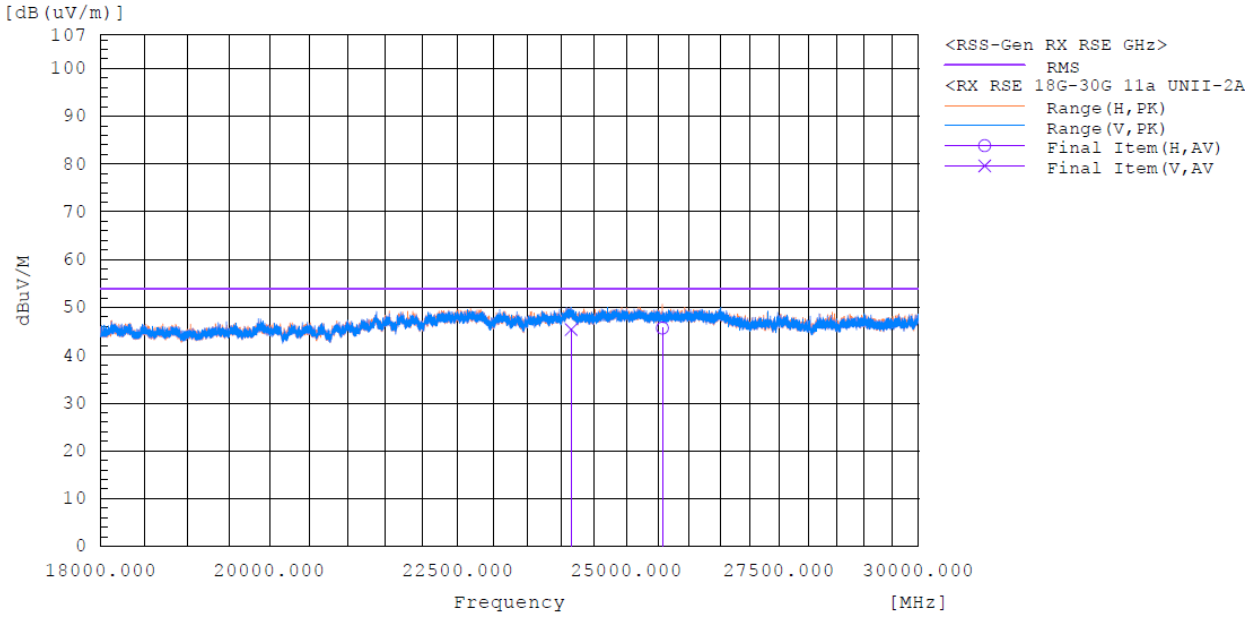
▣ TEST PLOTS

Radiated Receiver Spurious Emission 18 GHz - 30 GHz : 802.11a (CH 52)



Note:
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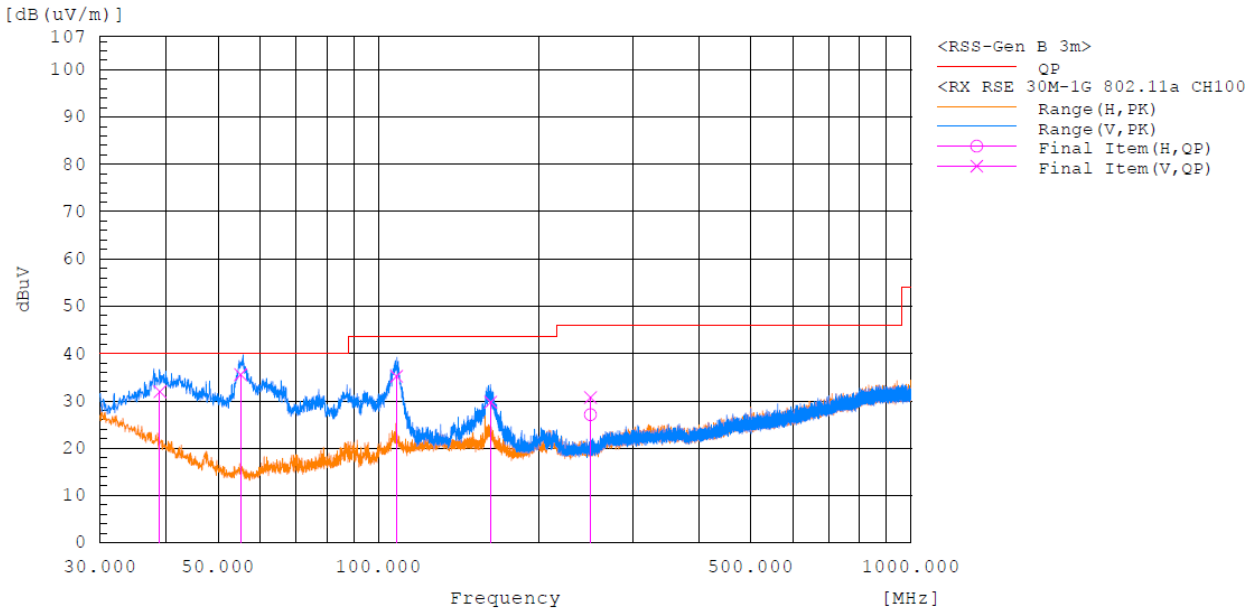
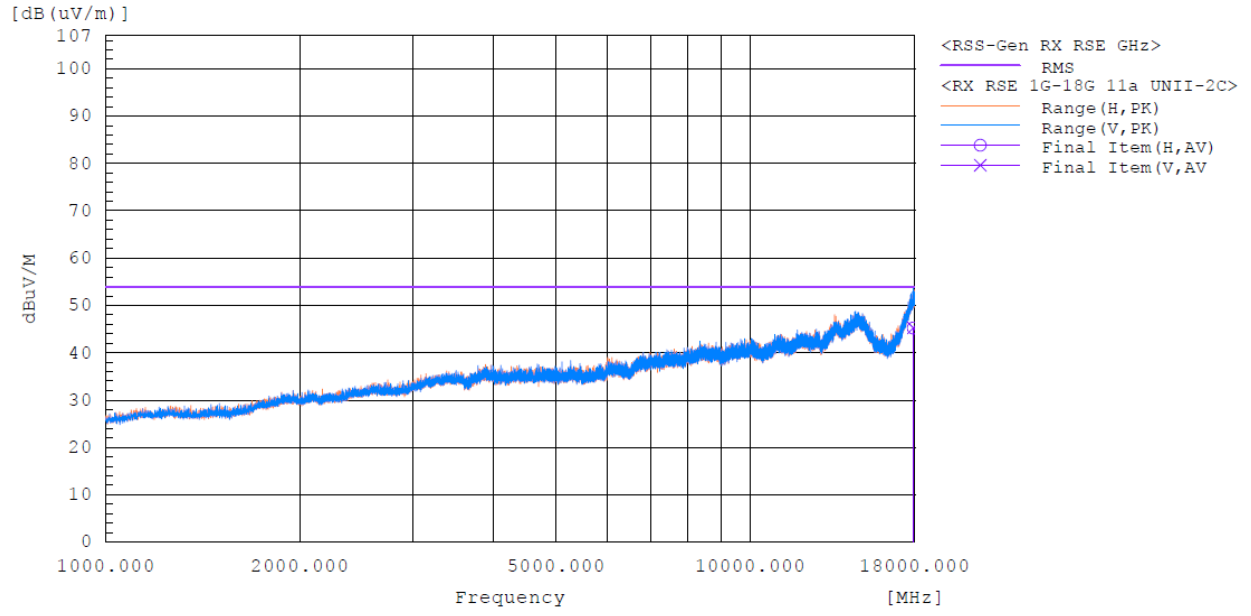
▣ TEST PLOTS

Radiated Receiver Spurious Emission 30 MHz - 1 GHz : 802.11a (CH 100)



Radiated Receiver Spurious Emission 1 GHz - 18 GHz : 802.11a (CH 100)



Note:
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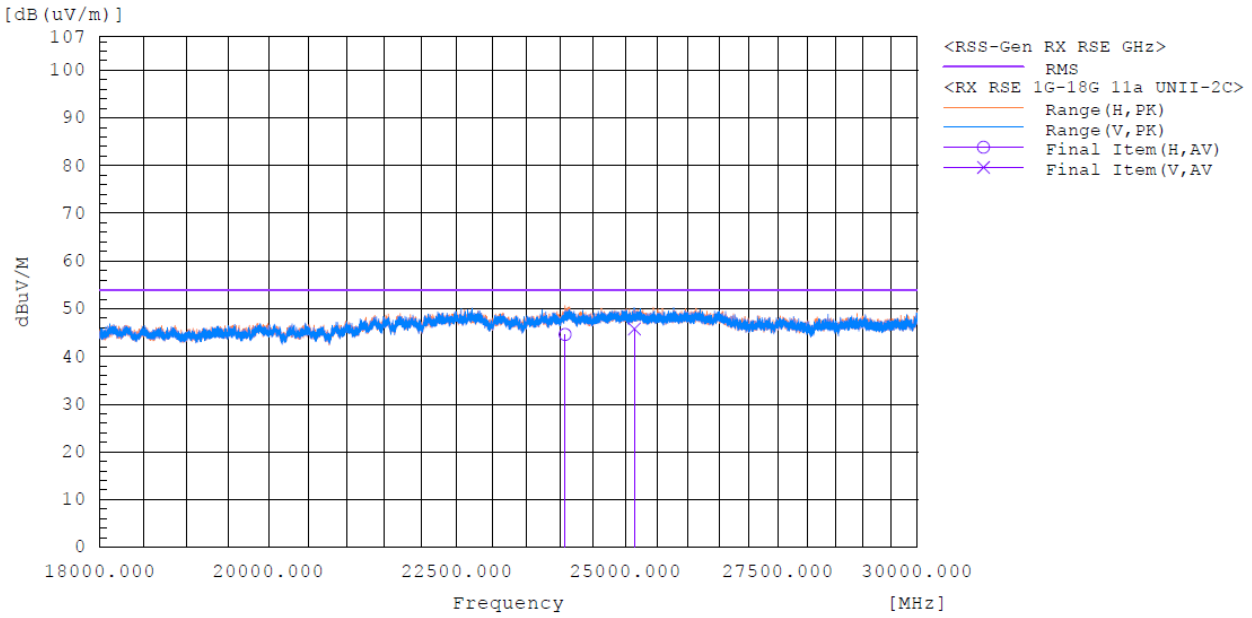
▣ TEST PLOTS

Radiated Receiver Spurious Emission 18 GHz - 30 GHz : 802.11a (CH 100)



Note:
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9.9 POWERLINE CONDUCTED EMISSIONS

Frequency (MHz)	Line	Reading (dBµV)		Corr. [1] (dB)	Level (dBµV)		Limit (dBµV)		Margin (dB)	
		QP	CAV		QP	CAV	QP	CAV	QP	CAV
0.165	L1	41.3	23.9	9.7	51	33.6	65.2	55.2	14.2	21.6
0.203	L1	36.6	19	9.7	46.3	28.7	63.5	53.5	17.2	24.8
0.564	L1	28.8	17.7	9.6	38.4	27.3	56	46	17.6	18.7
0.68	L1	20.8	10.8	9.6	30.4	20.4	56	46	25.6	25.6
6.925	L1	14.2	4.6	9.9	24.1	14.5	60	50	35.9	35.5
16.668	L1	22.1	15.1	10.2	32.3	25.3	60	50	27.7	24.7

Frequency (MHz)	Line	Reading (dBµV)		Corr. [1] (dB)	Level (dBµV)		Limit (dBµV)		Margin (dB)	
		QP	CAV		QP	CAV	QP	CAV	QP	CAV
0.162	N	40.3	22.6	9.7	50	32.3	65.4	55.4	15.4	23.1
0.207	N	36.3	20.4	9.7	46	30.1	63.3	53.3	17.3	23.2
0.57	N	30.5	23.8	9.6	40.1	33.4	56	46	15.9	12.6
0.726	N	22.3	14.7	9.6	31.9	24.3	56	46	24.1	21.7
5.569	N	17.8	11.8	9.8	27.6	21.6	60	50	32.4	28.4
11.391	N	23.3	18	10.1	33.4	28.1	60	50	26.6	21.9

Note(s) :

1. Quasi-peak(Final Result) = Reading Value + Correction Factor

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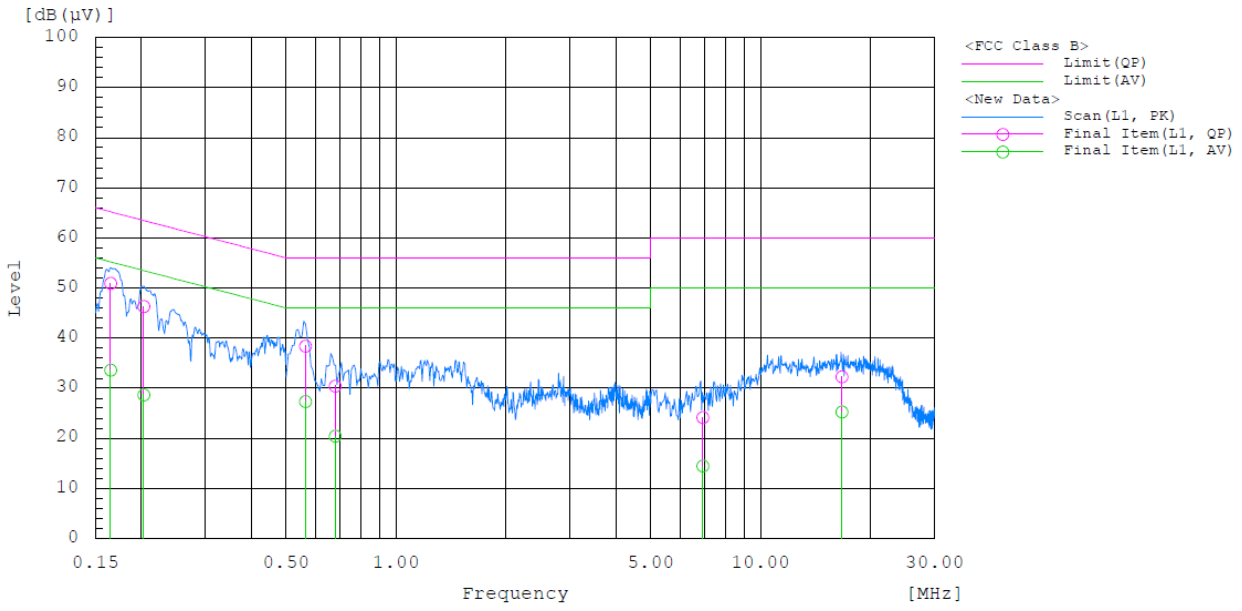
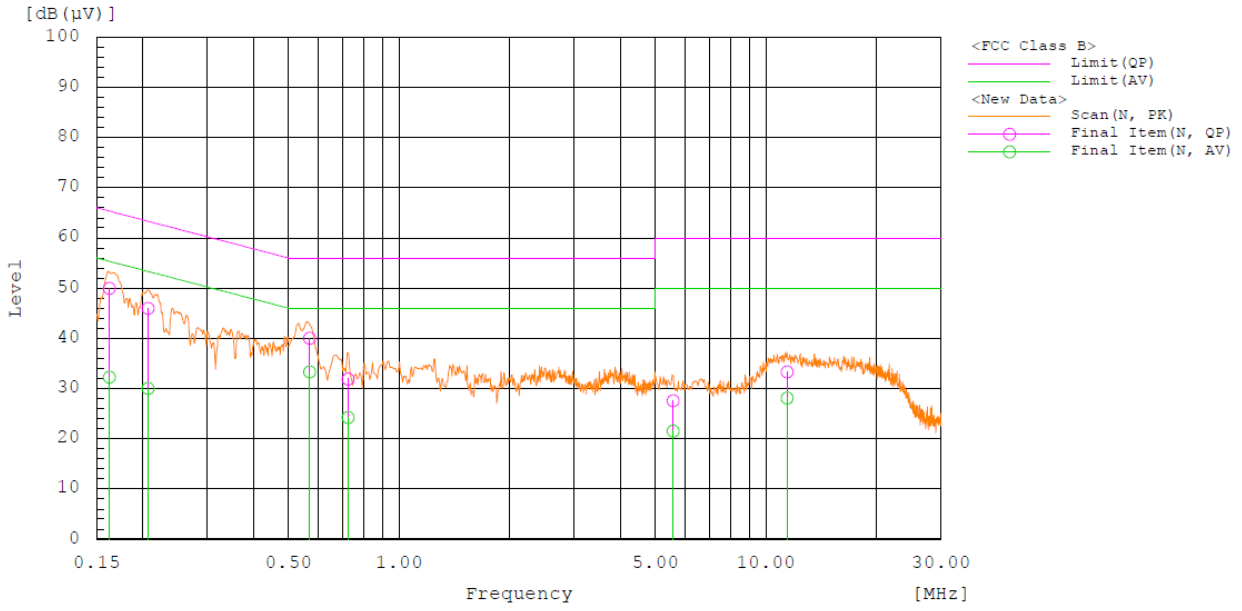
▣ TEST PLOTS

AC Line Conducted Emission (L1)



AC Line Conducted Emission (N)



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10. LIST OF TEST EQUIPMENT

No.	Instrument	Model No.	Calibration Due (mm/dd/yy)	Manufacture	Serial No.
☒	Signal Analyzer (1 Hz ~ 44 GHz)	ESW44	10/25/2022	Rohde & Schwarz	102015
☒	Signal Analyzer (10 Hz ~ 40.0 GHz)	FSV40	02/03/2022	Rohde & Schwarz	101424
☒	Signal Analyzer (3 Hz ~ 50 GHz)	N9030A	06/07/2022	Keysight	MY53311083
☒	Attenuator (10 dB, DC ~ 26.5 GHz)	CFAD261002	01/07/2022	CERNEX	H0044
☒	Loop Antenna (0.009 ~ 30 MHz)	AL-130R	04/16/2023	Com-Power	121082
☒	BI-LOG Antenna (30 MHz ~ 6 GHz)	JB6	10/26/2022	Sunol	A071116
☒	LNA (30 MHz ~ 1GHz)	8447D	07/26/2022	HP	2443A03587
☒	Horn Antenna (1 GHz ~ 18 GHz)	DRH-118	10/21/2022	Sunol	A070516
☒	LNA (1 GHz ~ 18 GHz)	PAM-118A	07/06/2022	Com-Power	18040074
☒	Horn Antenna (18 GHz ~ 40 GHz)	DRH-1840	02/16/2022	Sunol	17121
☒	LNA (18 GHz ~ 40 GHz)	CBL184050-45-01	02/04/2022	CERNEX, Inc.	27973
☐	High Pass Filter	WHK10-2520-3000-18000-40EF	01/06/2022	Wainwright	9
☒	High Pass Filter	WHKX8-6090-7000-18000-40SS	01/06/2022	Wainwright	23
☒	EMI Test Receiver	ESR3	12/17/2021	Rohde & Schwarz	102363
☒	LISN	ENV216	01/16/2022	Rohde & Schwarz	101349

Note(s) :

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

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APPENDIX A. TEST SETUP PHOTOS

The setup photos are provided as a separate document.

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APPENDIX B. PHOTOGRAPHS OF EUT

B.1. EXTERNAL PHOTOS

The external photos are provided as a separate document.

B.2. INTERNAL PHOTOS

The internal photos are provided as a separate document.

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END OF TEST REPORT

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