

**Frequency Range : Above 1 GHz**

Test Mode 802.11a : TX mode  
 Operating Frequency 5845 MHz (CH 169)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	Duty	AV	PK	AV	PK	AV	PK
3810.560	H	37.1	48.8	6.7	-	43.8	55.5	54	74	10.2	18.5
3858.552	V	37.2	47.1	7.0	-	44.2	54.1	54	74	9.8	19.9
5408.484	H	36.3	47.3	9.5	-	45.8	56.8	54	74	8.2	17.2
5415.474	V	37.5	47.7	9.5	-	47.0	57.2	54	74	7.0	16.8
11690.302	V	45	53.0	4.3	0.7	50.0	57.3	54	74	4.0	16.7
11691.758	H	38.8	47.2	4.3	0.7	43.8	51.5	54	74	10.2	22.5

Test Mode 802.11a : TX mode  
 Operating Frequency 5865 MHz (CH 173)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	Duty	AV	PK	AV	PK	AV	PK
3810.221	H	37.1	48.5	6.7	-	43.8	55.2	54	74	10.2	18.8
3855.719	V	37.2	47.9	7.0	-	44.2	54.9	54	74	9.8	19.1
5406.429	H	36.1	47.4	9.5	-	45.6	56.9	54	74	8.4	17.1
5413.455	V	37.5	47.7	9.5	-	47.0	57.2	54	74	7.0	16.8
11730.049	V	45.9	54.5	4.4	0.7	51.0	58.9	54	74	3.0	15.1
11730.139	H	39.1	48.0	4.4	0.7	44.2	52.4	54	74	9.8	21.6
17591.584	H	-	37.5	14.5	0.7	-	52.0	-	68.2	-	16.2
17594.128	V	-	41.0	14.6	0.7	-	55.6	-	68.2	-	12.6

**Note(s) :**

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

**Frequency Range : Above 1 GHz (Continued)**

Test Mode 802.11a : TX mode  
 Operating Frequency 5885 MHz (CH 177)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	Duty	AV	PK	AV	PK	AV	PK
3811.002	H	37.1	48.5	6.7	-	43.8	55.2	54	74	10.2	18.8
3855.665	V	37.2	48.0	7.0	-	44.2	55.0	54	74	9.8	19.0
5405.989	H	36.1	47.4	9.5	-	45.6	56.9	54	74	8.4	17.1
5413.324	V	37.6	47.6	9.5	-	47.1	57.1	54	74	6.9	16.9
11770.131	V	44.4	53.7	4.6	0.7	49.7	58.3	54	74	4.3	15.7
11770.208	H	37.3	46.6	4.6	0.7	42.6	51.2	54	74	11.4	22.8
17655.048	V	-	42.6	15.2	0.7	-	57.8	-	68.2	-	10.4
17655.688	H	-	41.6	15.2	0.7	-	56.8	-	68.2	-	11.4

**Note(s) :**

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

**Frequency Range : Above 1 GHz (Continued)**

Test Mode 802.11n HT40 : TX mode  
 Operating Frequency 5835 MHz (CH 167)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	Duty	AV	PK	AV	PK	AV	PK
4799.914	H	38.8	45.0	7.6	-	46.4	52.6	54	74	7.6	21.4
4799.927	V	37.3	44.6	7.6	-	44.9	52.2	54	74	9.1	21.8
11662.823	H	37.3	45.9	4.3	0.4	42.0	50.2	54	74	12.0	23.8
11670.037	V	42.7	51.6	4.3	0.4	47.4	55.9	54	74	6.6	18.1

Test Mode 802.11n HT40 : TX mode  
 Operating Frequency 5875 MHz (CH 175)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	Duty	AV	PK	AV	PK	AV	PK
3907.534	V	36.7	45.6	7.2	-	43.9	52.8	54	74	10.1	21.2
3998.629	H	36.8	45.3	7.2	-	44.0	52.5	54	74	10.0	21.5
5390.903	V	36	45.3	9.4	-	45.4	54.7	54	74	8.6	19.3
5431.321	H	36	45.1	9.5	-	45.5	54.6	54	74	8.5	19.4
11593.987	V	35.5	44.1	4.1	0.4	40.0	48.2	54	74	14.0	25.8
11595.087	H	31.3	39.8	4.1	0.4	35.8	43.9	54	74	18.2	30.1

**Note(s) :**

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

**Frequency Range : Above 1 GHz (Continued)**

Test Mode 802.11ac VHT80 : TX mode  
 Operating Frequency 5855 MHz (CH 171)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	Duty	AV	PK	AV	PK	AV	PK
5279.972	H	-	46.2	9.1	-	-	55.3	-	68.2	-	12.9
5279.989	V	-	44.6	9.1	-	-	53.7	-	68.2	-	14.5
11709.977	V	41.5	49.0	4.4	0.4	46.3	53.4	54	74	7.7	20.6
11710.003	H	35.6	43.7	4.4	0.4	40.4	48.1	54	74	13.6	25.9

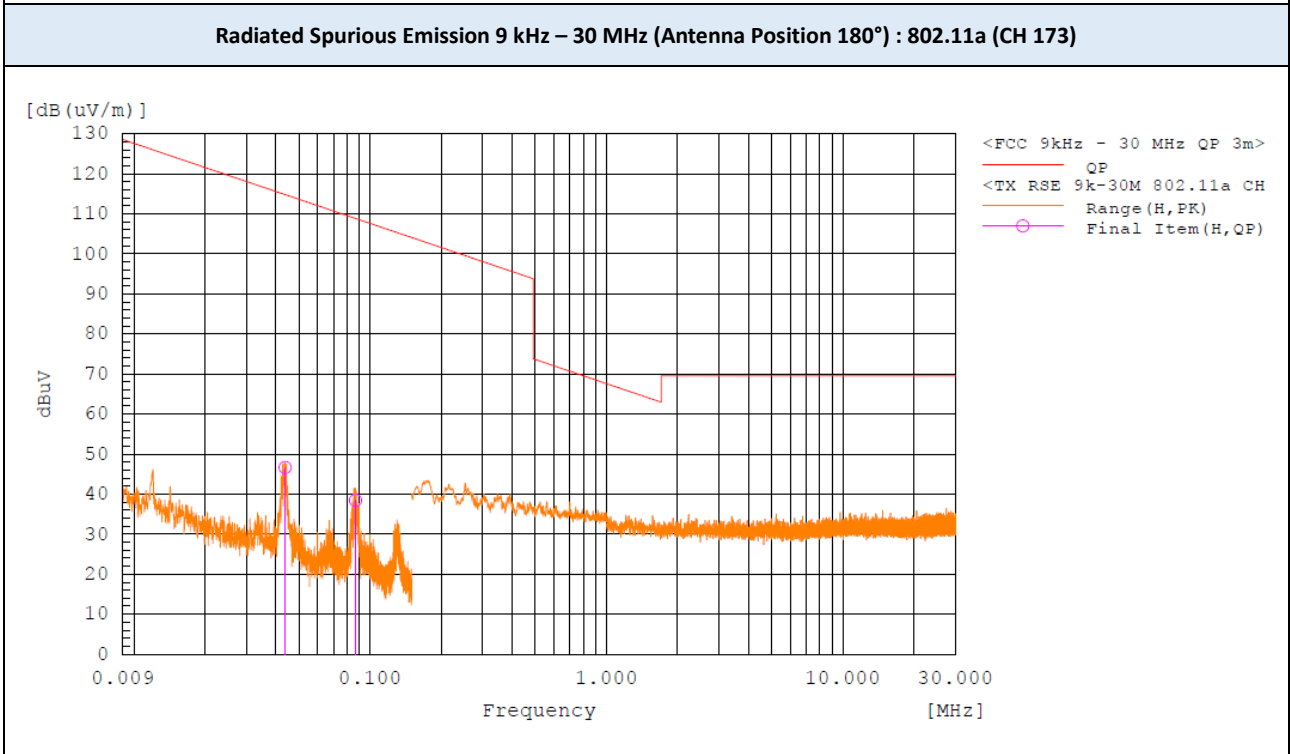
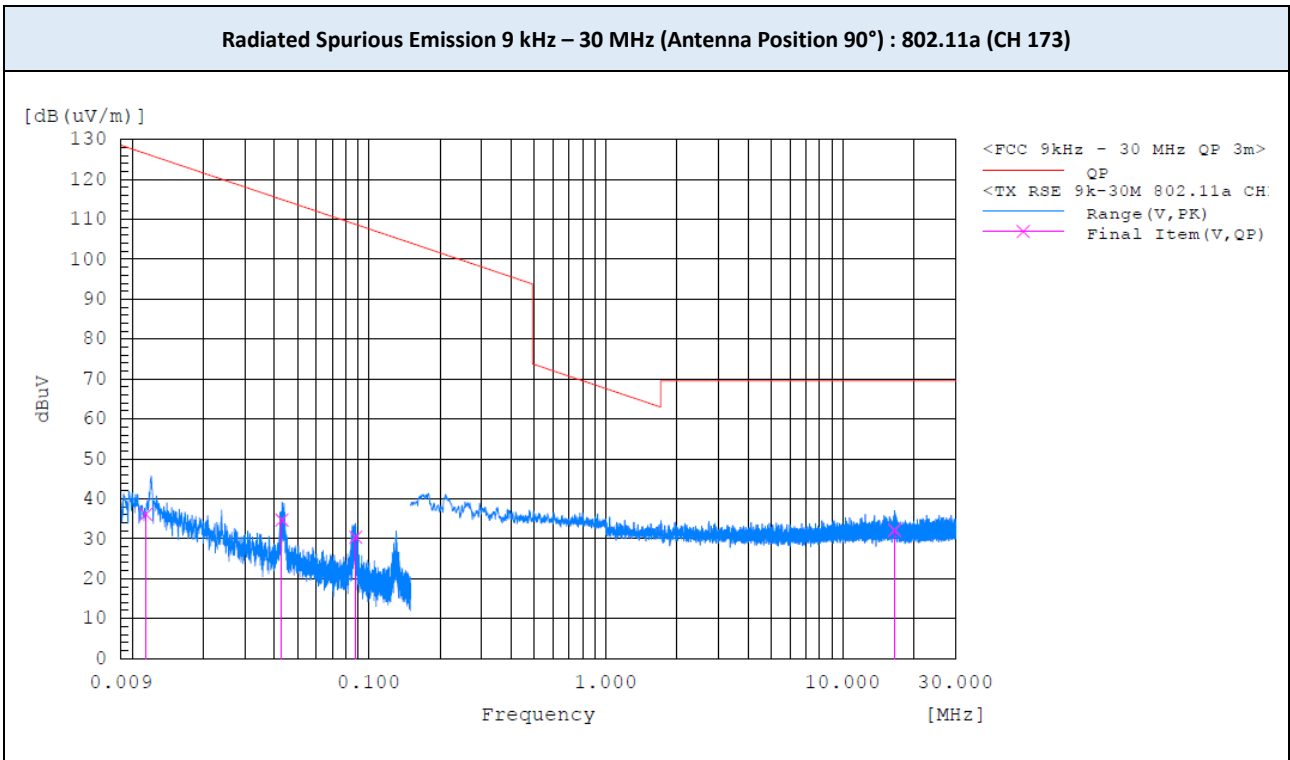
Test Mode 802.11ac VHT160 : TX mode  
 Operating Frequency 5815 MHz (CH 163)

Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	Duty	AV	PK	AV	PK	AV	PK
3980.947	V	34.8	43.2	7.2	-	42.0	50.4	54	74	12.0	23.6
4366.285	H	35.2	42.9	6.7	-	41.9	49.6	54	74	12.1	24.4
5279.825	H	-	47.2	9.1	-	-	56.3	-	68.2	-	11.9
5279.995	V	-	46.3	9.1	-	-	55.4	-	68.2	-	12.8
11630.007	H	33.7	41.9	4.2	0.4	38.3	46.1	54	74	15.7	27.9
11630.007	V	39.5	46.3	4.2	0.4	44.1	50.5	54	74	9.9	23.5

**Note(s) :**

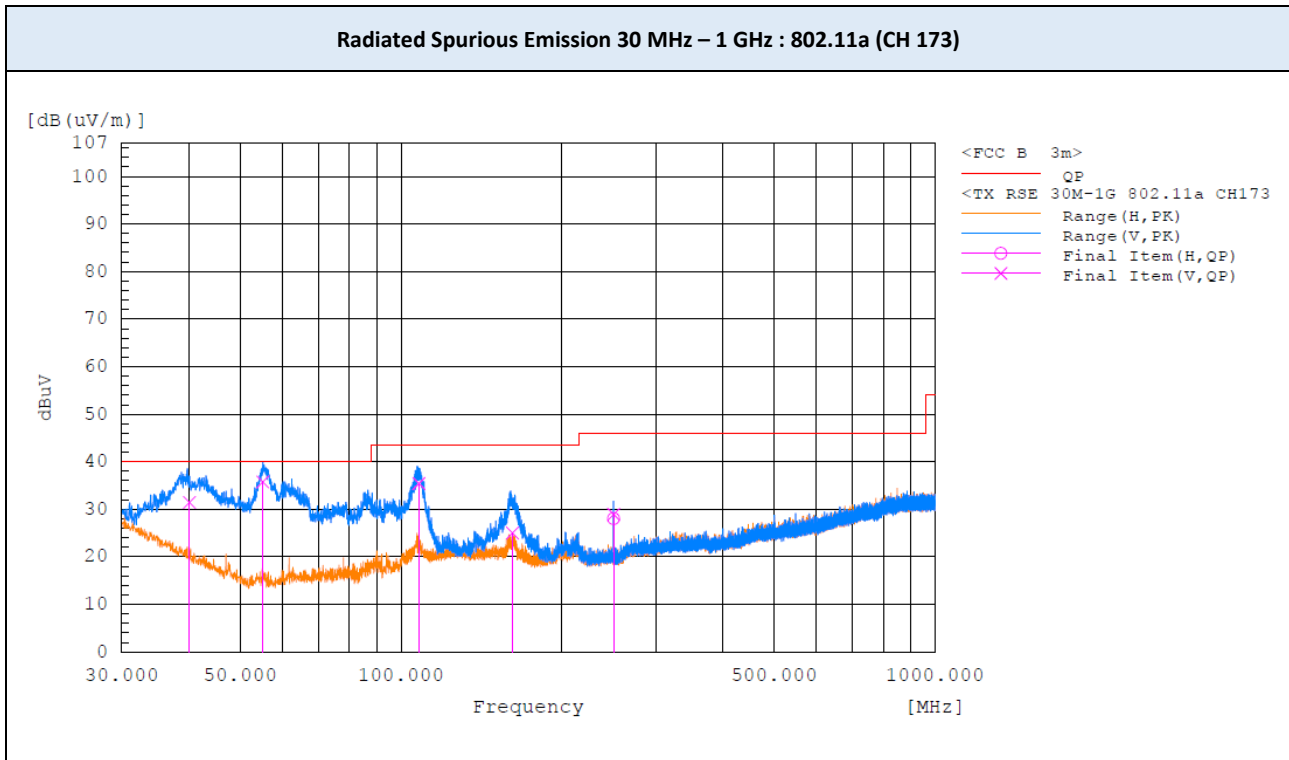
1. Correction Factor: Antenna Factor + Cable loss + Pre-amplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Factor(dB).

▣ TEST PLOTS



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

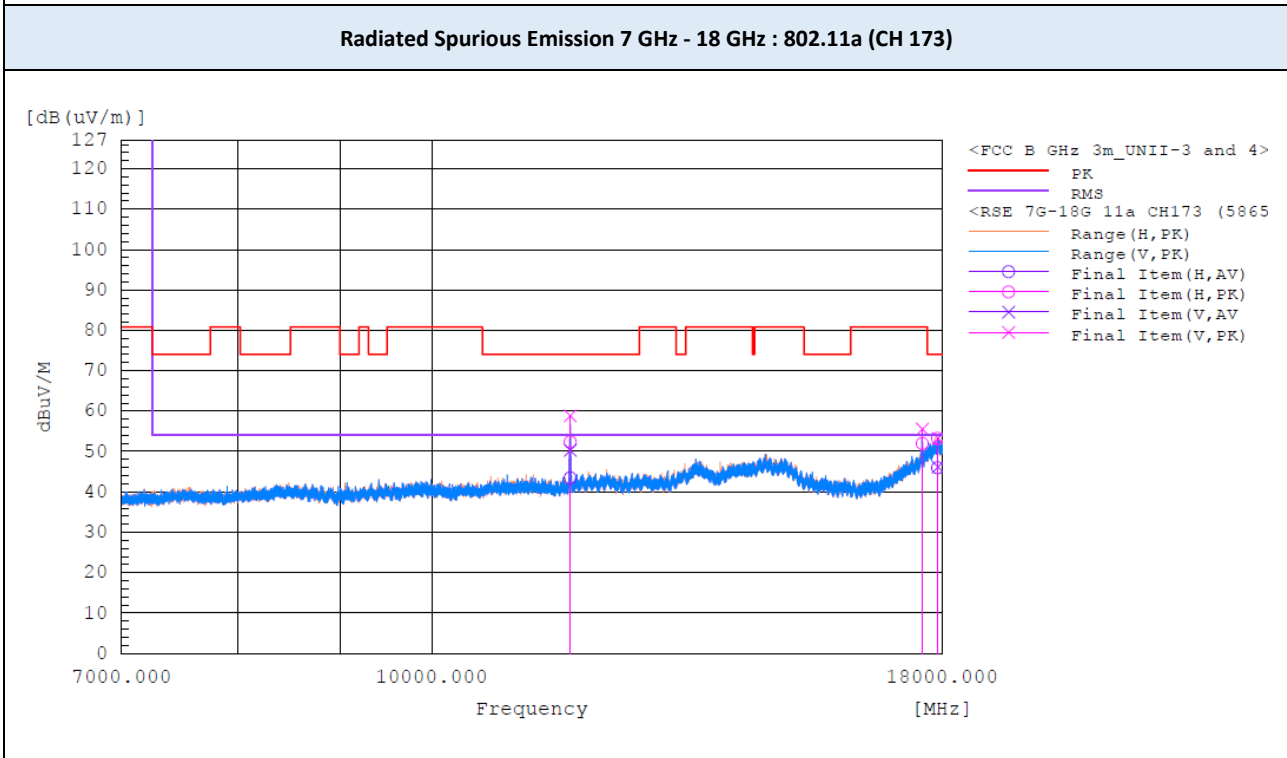
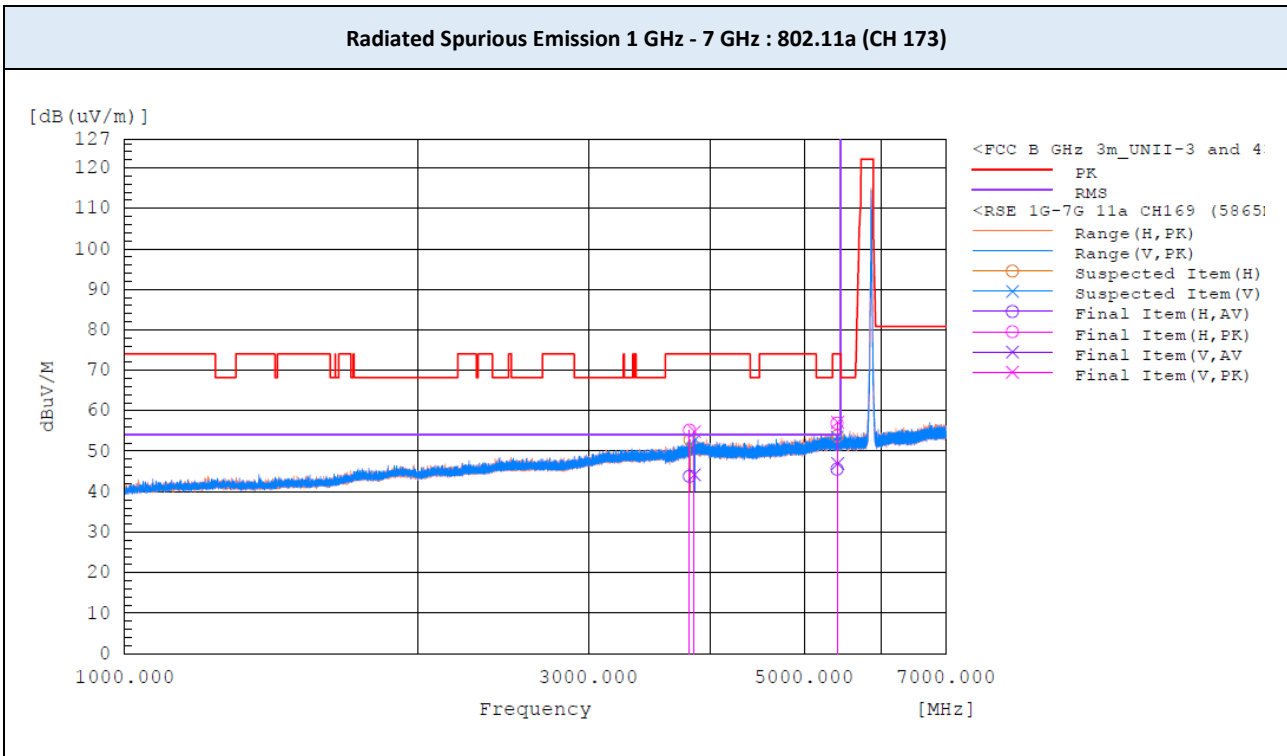
▣ TEST PLOTS



**Note:**

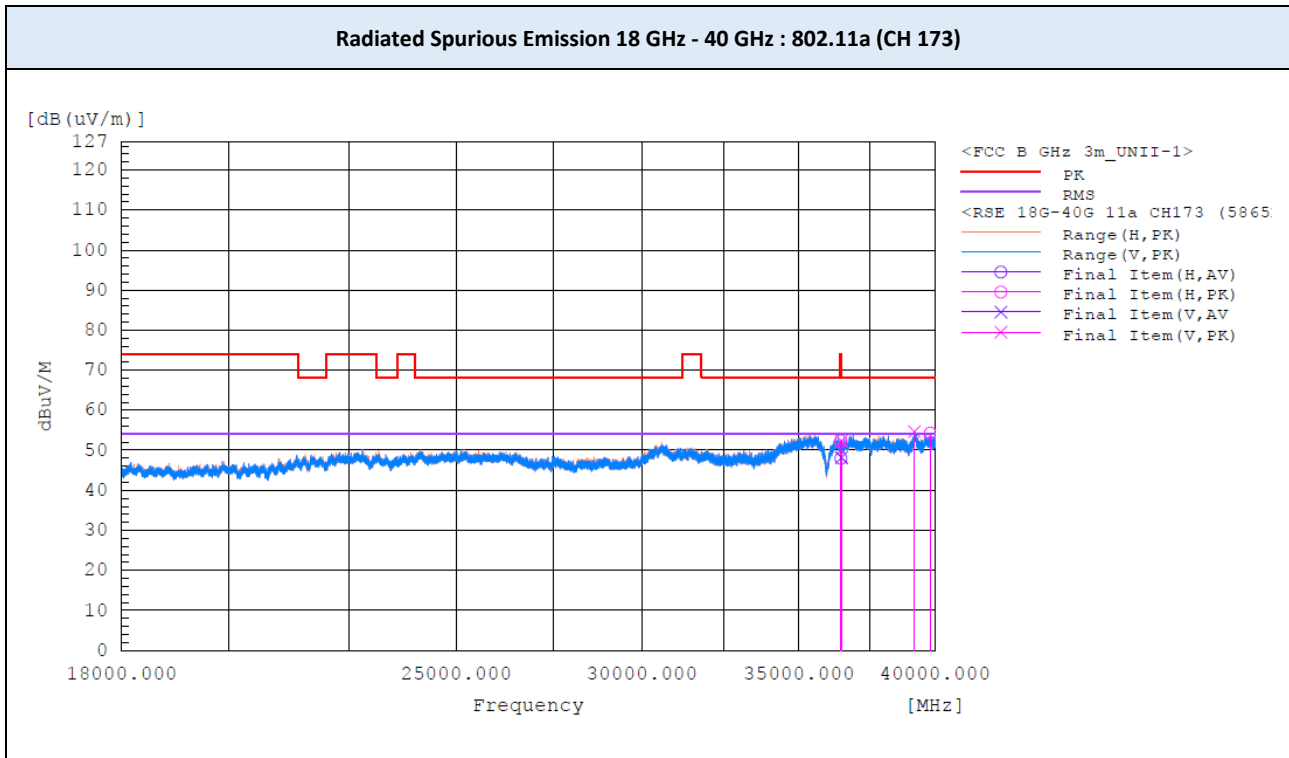
The worst-case plots are included in this report.

▣ TEST PLOTS



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

▣ TEST PLOTS



**Note:**

The worst-case plots are included in this report.



### 9.7 RADIATED RESTRICTED BAND EDGES

Test Mode 802.11a : TX mode  
 Operating Frequency 5885 MHz (CH 177)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5895.017	H	83.3	10.1	93.4	102.8	9.4
5895.801	V	83.6	10.1	93.7	102.2	8.5

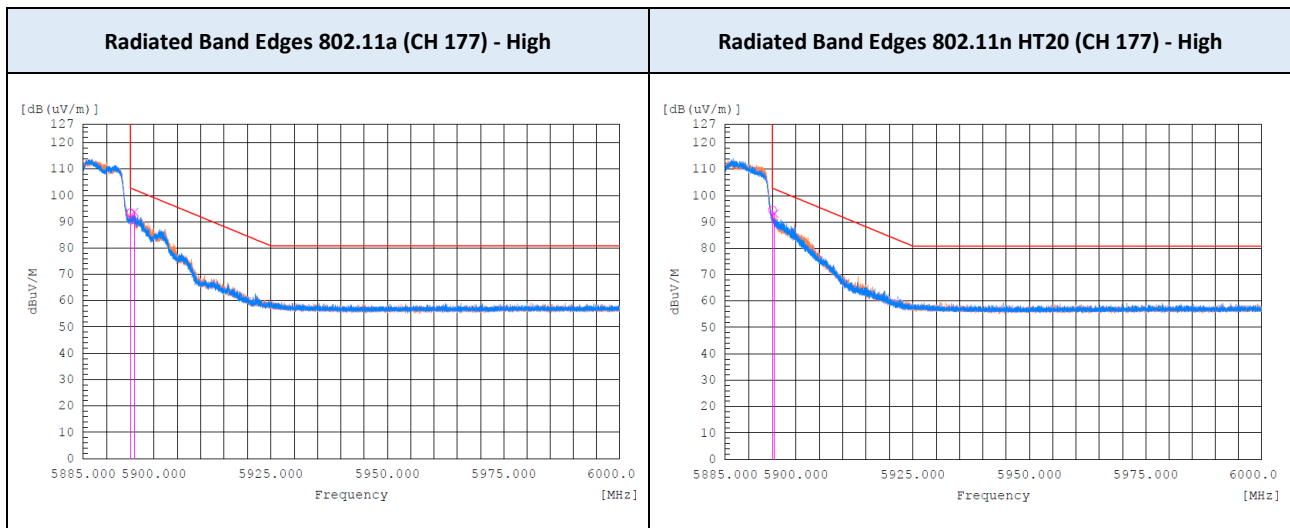
Test Mode 802.11n HT20 : TX mode  
 Operating Frequency 5885 MHz (CH 177)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5895.022	H	84.4	10.1	94.5	102.8	8.3
5895.446	V	83.1	10.1	93.2	102.5	9.3

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**



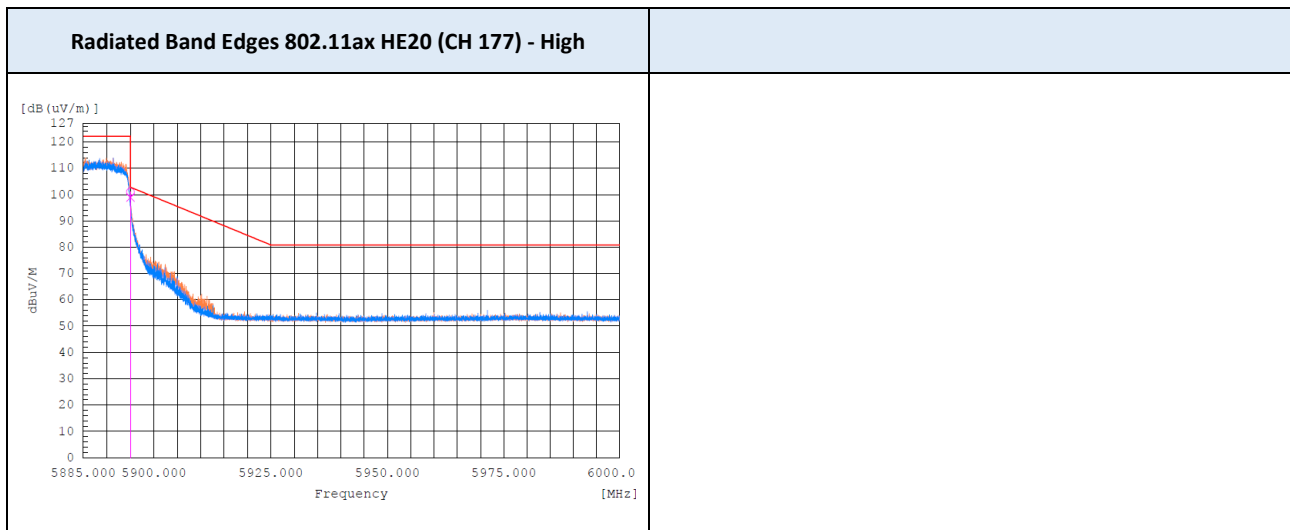
Test Mode 802.11ax HE20 : TX mode  
 Operating Frequency 5885 MHz (CH 177)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5895.000	H	90.9	10.1	101.0	102.8	1.8
5895.001	V	88.8	10.1	98.9	102.8	3.9

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**



Test Mode 802.11n HT40 : TX mode  
 Operating Frequency 5875 MHz (CH 175)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5912.449	V	76.0	10.2	86.2	90.0	3.8
5912.503	H	77.2	10.2	87.4	90.0	2.6
5917.748	V	69.2	10.2	79.4	86.1	6.7
5919.743	H	71.5	10.2	81.7	84.7	3.0

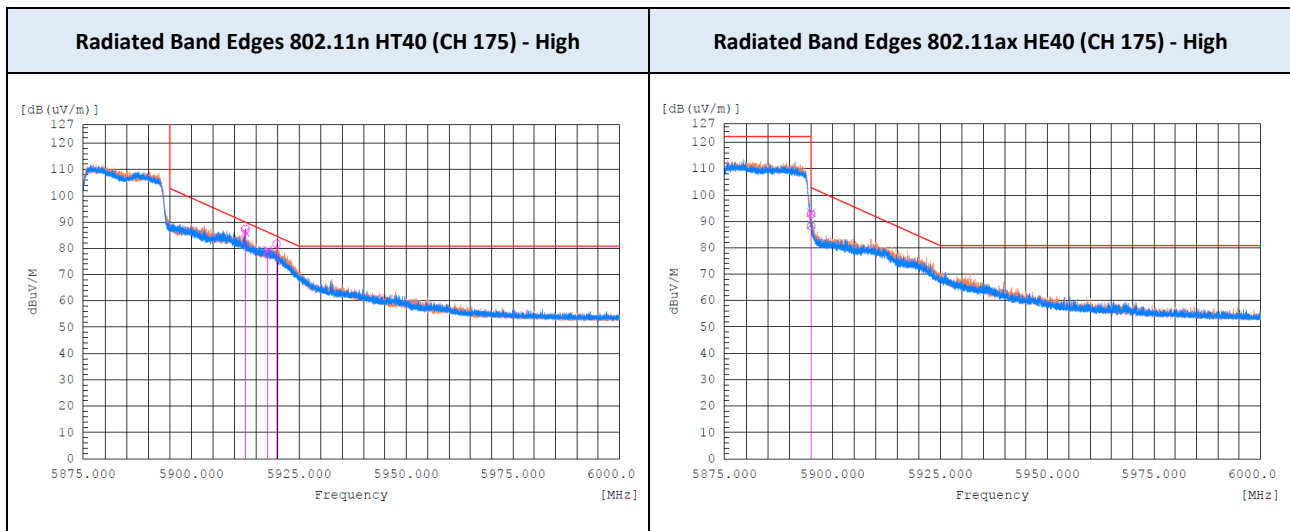
Test Mode 802.11ax HE40 : TX mode  
 Operating Frequency 5875 MHz (CH 175)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5895.000	H	82.7	10.1	92.8	102.8	10.0
5895.001	V	83.2	10.1	93.3	102.8	9.5

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**



Test Mode 802.11n HT20 : TX mode  
 Operating Frequency 5845 MHz (CH 169 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5648.293	H	47.6	9.6	57.2	68.2	11.0
5650.684	V	46.6	9.6	56.2	68.7	12.5
5925.967	V	45.3	10.2	55.5	80.8	25.3
5925.642	H	45.0	10.2	55.2	80.8	25.6

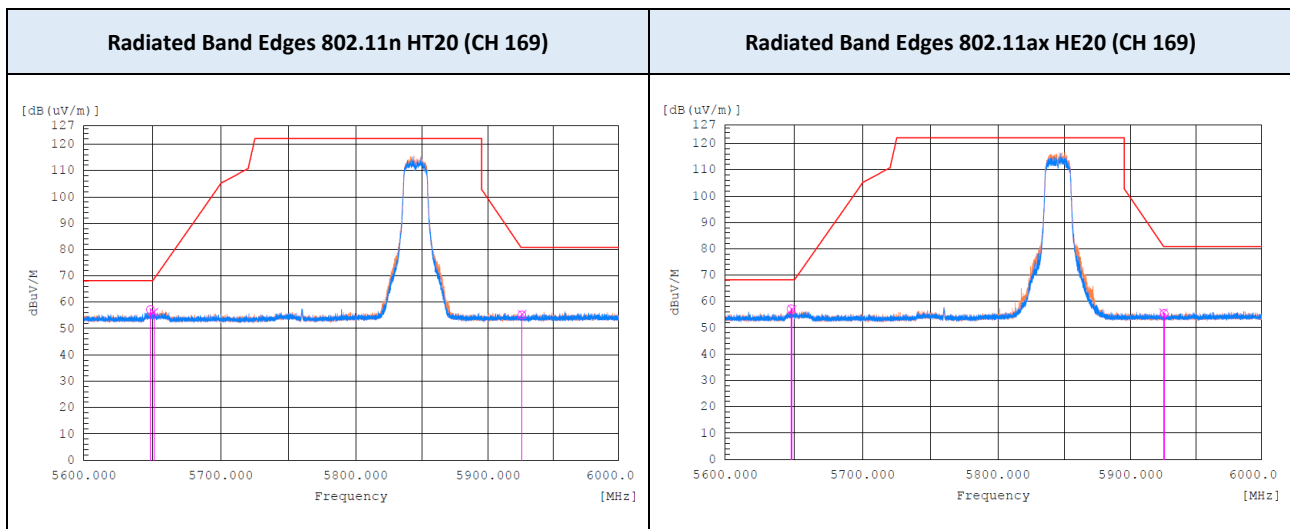
Test Mode 802.11ax HE20 : TX mode  
 Operating Frequency 5845 MHz (CH 169 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5647.490	H	47.6	9.6	57.2	68.2	11.0
5648.215	V	47.4	9.6	57.0	68.2	11.2
5924.791	V	45.5	10.2	55.7	81	25.3
5925.378	H	45.2	10.2	55.4	80.8	25.4

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**



Test Mode 802.11n HT40 : TX mode  
 Operating Frequency 5835 MHz (CH 167 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5647.515	V	47.2	9.6	56.8	68.2	11.4
5648.609	H	48.1	9.6	57.7	68.2	10.5
5926.042	H	51.3	10.2	61.5	80.8	19.3
5925.608	V	50.9	10.2	61.1	80.8	19.7

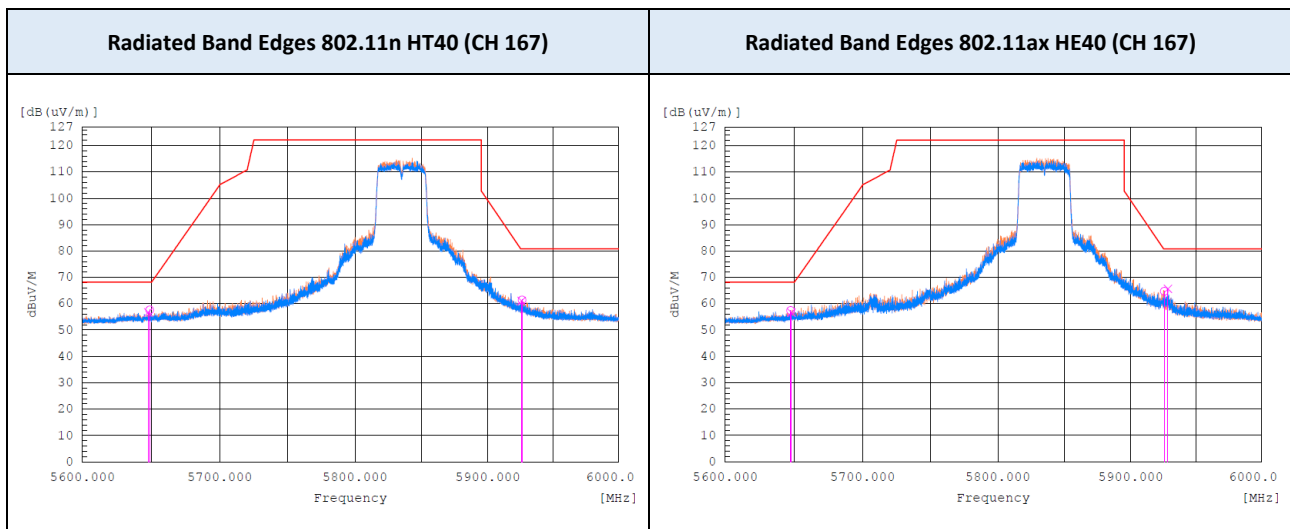
Test Mode 802.11ax HE40 : TX mode  
 Operating Frequency 5835 MHz (CH 167 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5647.215	H	47.9	9.6	57.5	68.2	10.7
5647.765	V	47.0	9.6	56.6	68.2	11.6
5925.529	H	54.6	10.2	64.8	80.8	16.0
5928.280	V	55.5	10.2	65.7	80.8	15.1

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**



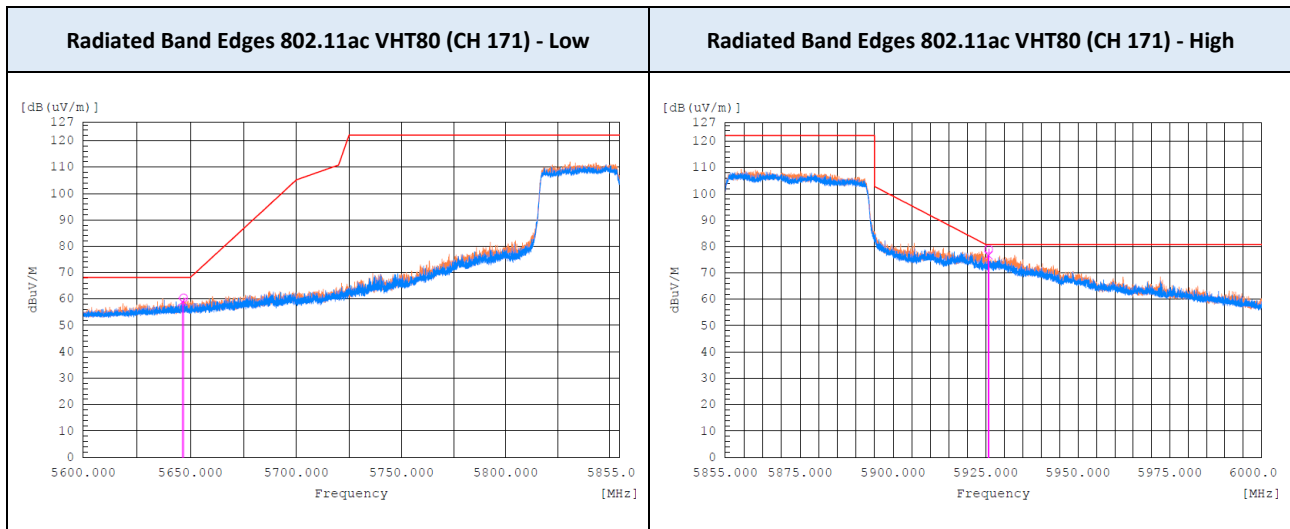
Test Mode 802.11ac VHT80 : TX mode  
 Operating Frequency 5855 MHz (CH 171 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5646.278	V	49.4	9.6	59.0	68.2	9.2
5646.841	H	50.8	9.6	60.4	68.2	7.8
5925.750	V	66.5	10.2	76.7	80.8	4.1
5925.792	H	68.8	10.2	79.0	80.8	1.8

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**



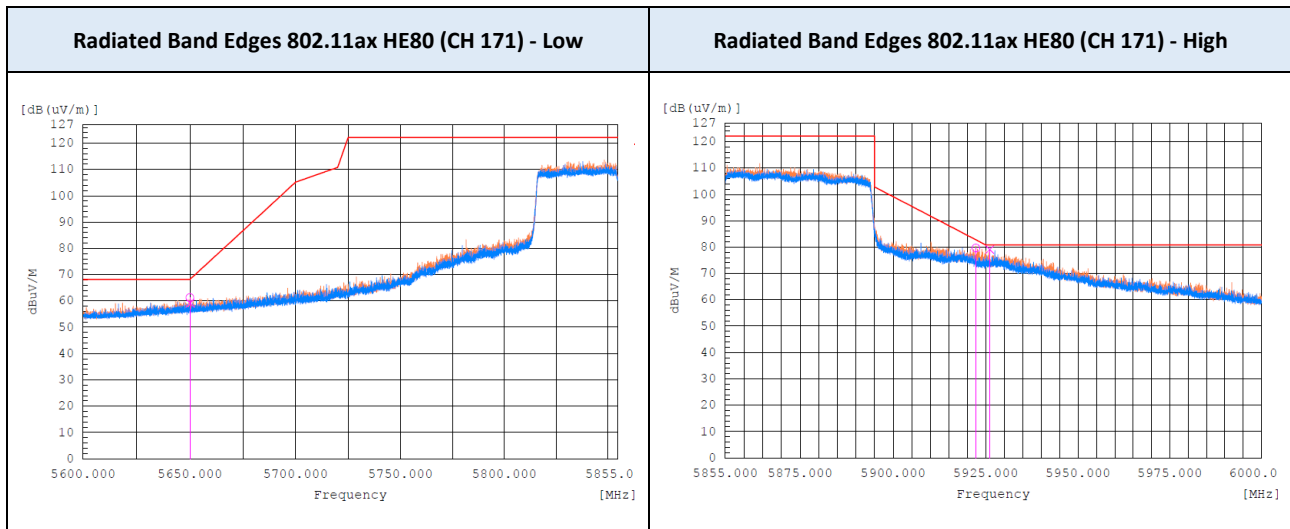
Test Mode 802.11ax HE80 : TX mode  
 Operating Frequency 5855 MHz (CH 171 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5650.007	H	51.7	9.6	61.3	68.2	6.9
5650.057	V	49.6	9.6	59.2	68.2	9.0
5922.324	H	69.5	10.2	79.7	82.8	3.1
5926.069	V	68.9	10.2	79.1	80.8	1.7

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**



Test Mode 802.11ac VHT160 : TX mode  
 Operating Frequency 5815 MHz (CH 164 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5648.311	V	56.5	9.6	66.1	68.2	2.1
5649.674	H	56.6	9.6	66.2	68.2	2.0
5927.461	V	58.9	10.2	69.1	80.8	11.7
5928.649	H	59.1	10.2	69.3	80.8	11.5

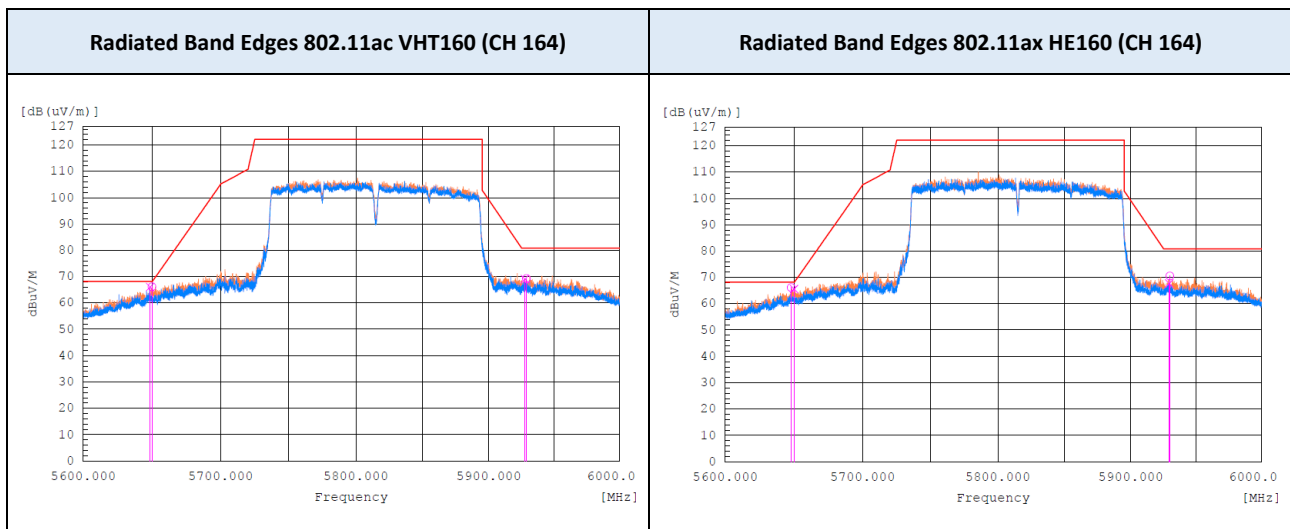
Test Mode 802.11ax HE160 : TX mode  
 Operating Frequency 5815 MHz (CH 164 : Straddle)

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
		PK	Corr. <sup>1)</sup>	PK	PK	PK
5647.593	H	56.6	9.6	66.2	68.2	2.0
5649.707	V	56.0	9.6	65.6	68.2	2.6
5929.153	V	57.5	10.2	67.7	80.8	13.1
5929.763	H	60.4	10.2	70.6	80.8	10.2

**Notes:**

1. Correction Factor: Antenna Factor + Cable loss

**TEST PLOTS**





### 9.8 POWERLINE CONDUCTED EMISSIONS

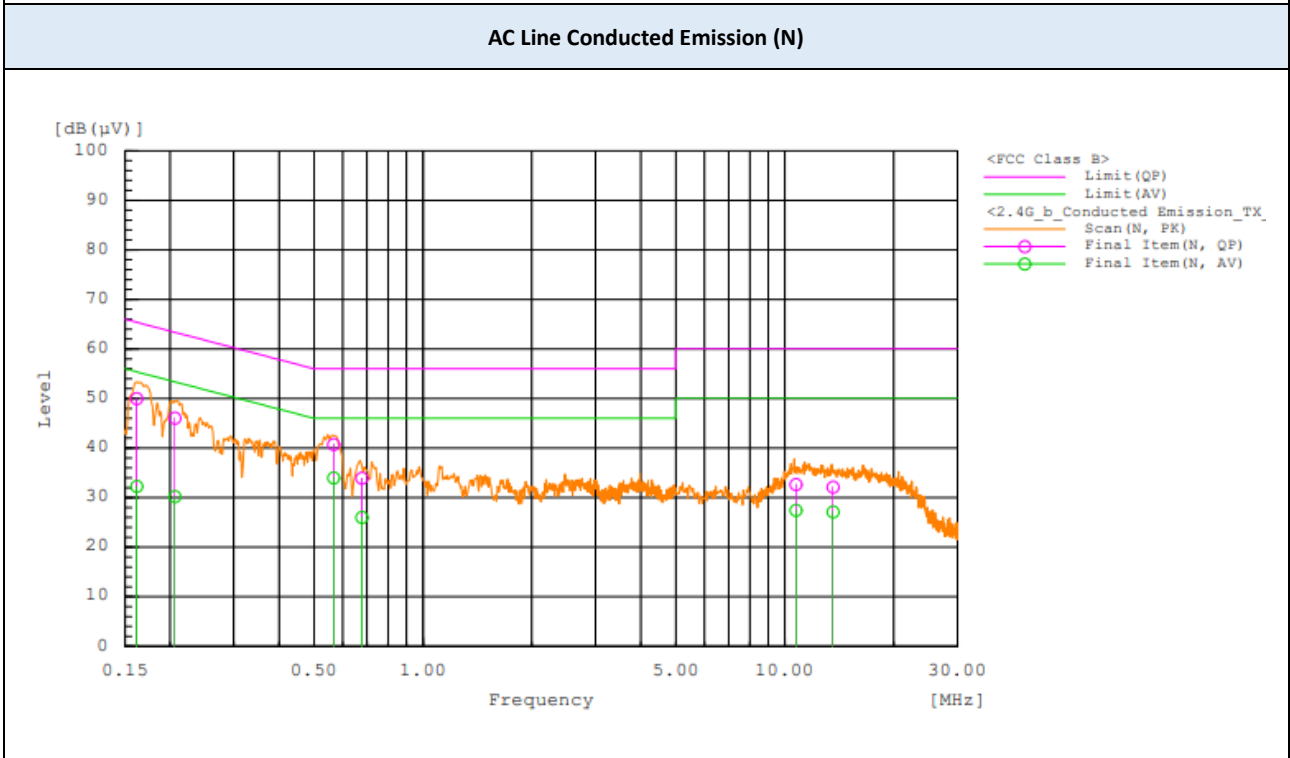
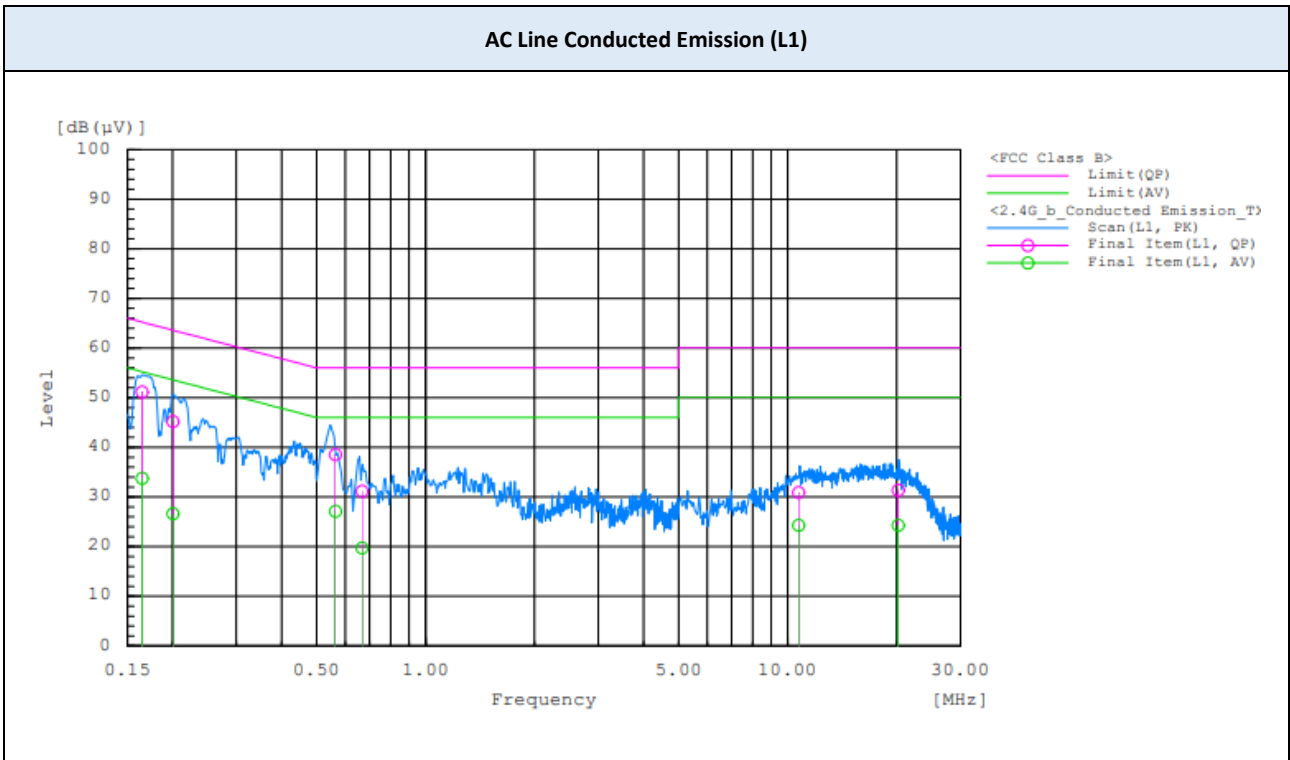
Frequency (MHz)	Line	Reading (dB $\mu$ V)		Corr. <sup>1)</sup> (dB)	Level (dB $\mu$ V)		Limit (dB $\mu$ V)		Margin (dB)	
		QP	CAV		QP	CAV	QP	CAV	QP	CAV
0.165	L1	41.5	24.1	9.7	51.2	33.8	65.2	55.2	14.0	21.4
0.200	L1	35.5	17.0	9.7	45.2	26.7	63.6	53.6	18.4	26.9
0.563	L1	28.9	17.5	9.6	38.5	27.1	56	46	17.5	18.9
0.667	L1	21.6	10.1	9.6	31.2	19.7	56	46	24.8	26.3
10.706	L1	20.8	14.2	10.1	30.9	24.3	60	50	29.1	25.7
20.193	L1	21.0	13.9	10.4	31.4	24.3	60	50	28.6	25.7

Frequency (MHz)	Line	Reading (dB $\mu$ V)		Corr. <sup>1)</sup> (dB)	Level (dB $\mu$ V)		Limit (dB $\mu$ V)		Margin (dB)	
		QP	CAV		QP	CAV	QP	CAV	QP	CAV
0.162	N	40.3	22.6	9.7	50.0	32.3	65.4	55.4	15.4	23.1
0.206	N	36.4	20.5	9.7	46.1	30.2	63.4	53.4	17.3	23.2
0.566	N	31.1	24.4	9.6	40.7	34.0	56	46	15.3	12.0
0.677	N	24.4	16.4	9.6	34.0	26.0	56	46	22.0	20.0
10.730	N	22.7	17.5	10.0	32.7	27.5	60	50	27.3	22.5
13.590	N	22.0	17.1	10.1	32.1	27.2	60	50	27.9	22.8

**Note(s) :**

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

▣ TEST PLOTS



## 10. LIST OF TEST EQUIPMENT

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

---

## APPENDIX A. TEST SETUP PHOTOS

*The setup photos are provided as a separate document.*

---

## 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.*

***END OF TEST REPORT***