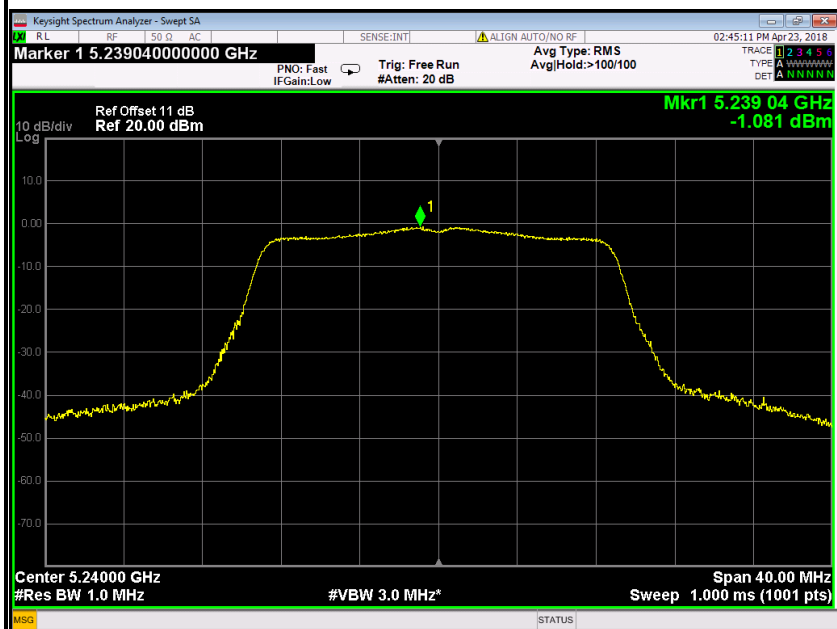


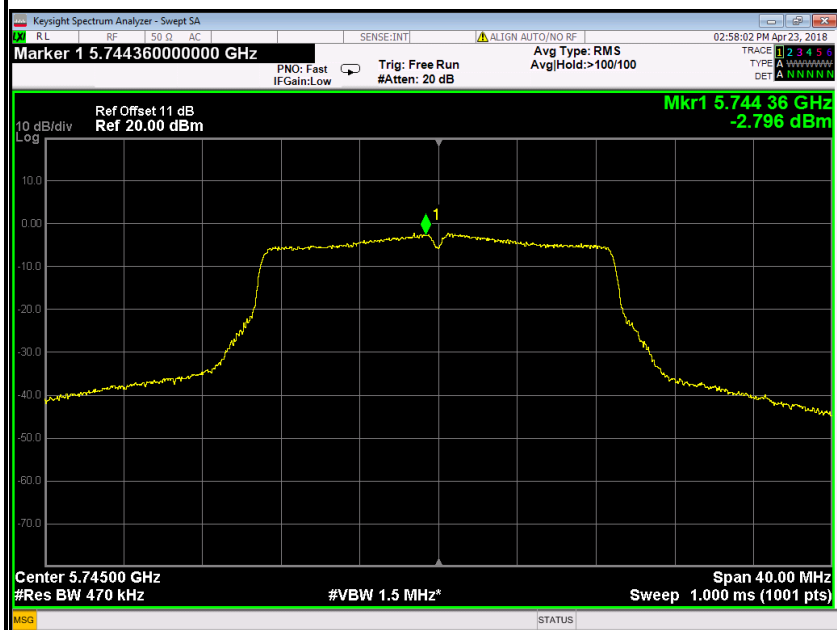


PPSD (CH High)



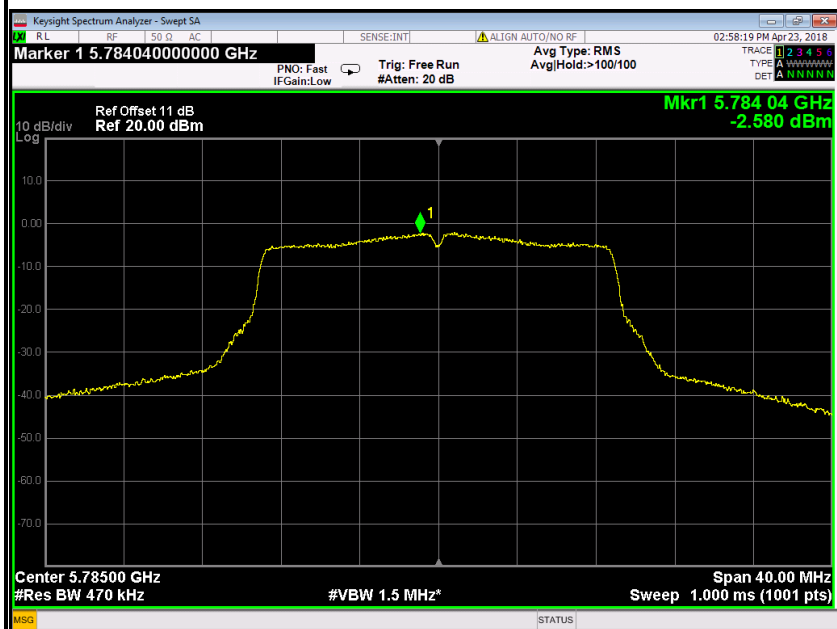
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

PPSD (CH Low)

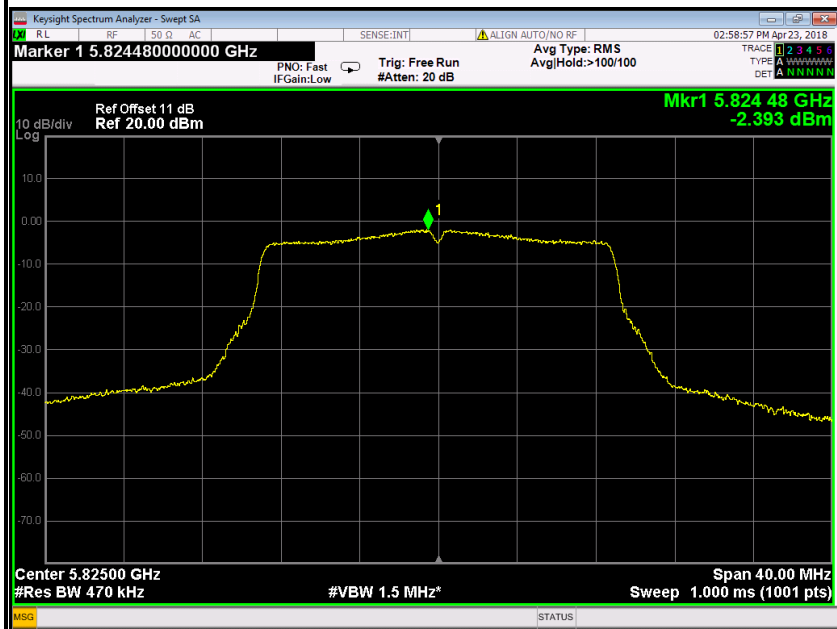




PPSD (CH Mid)



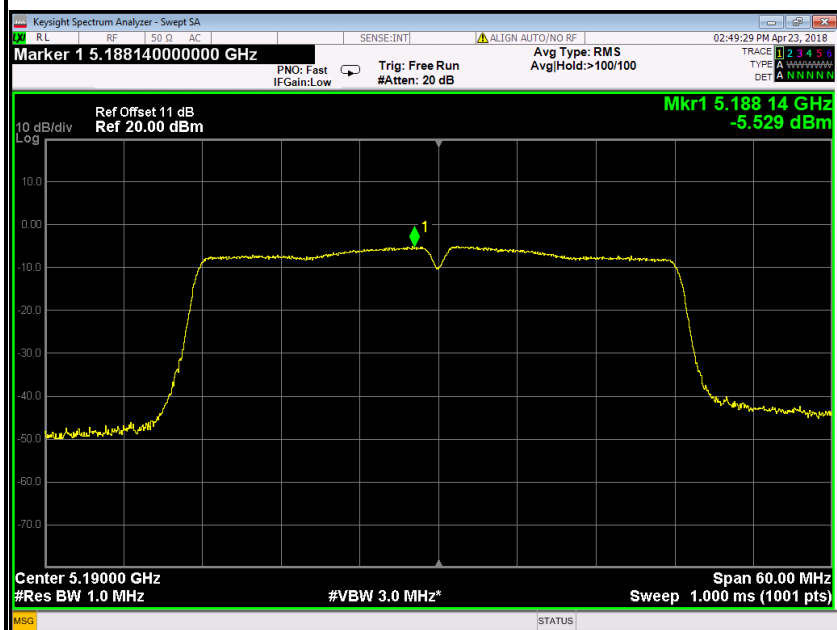
PPSD (CH High)



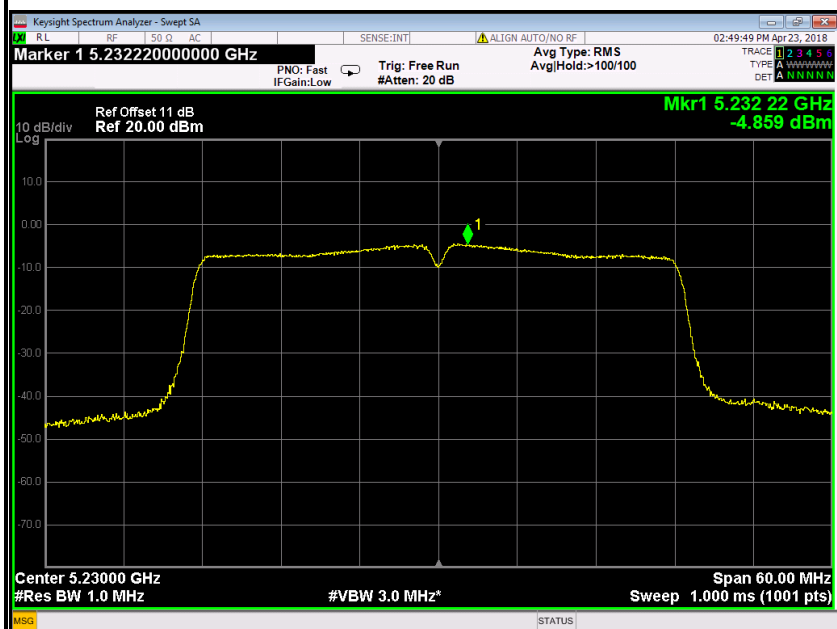


IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

PPSD (CH Low)



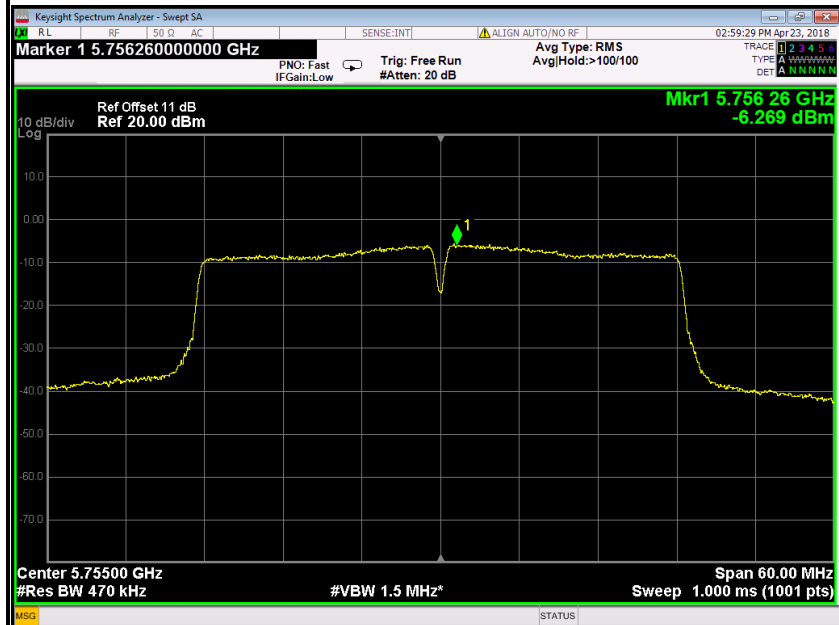
PPSD (CH High)



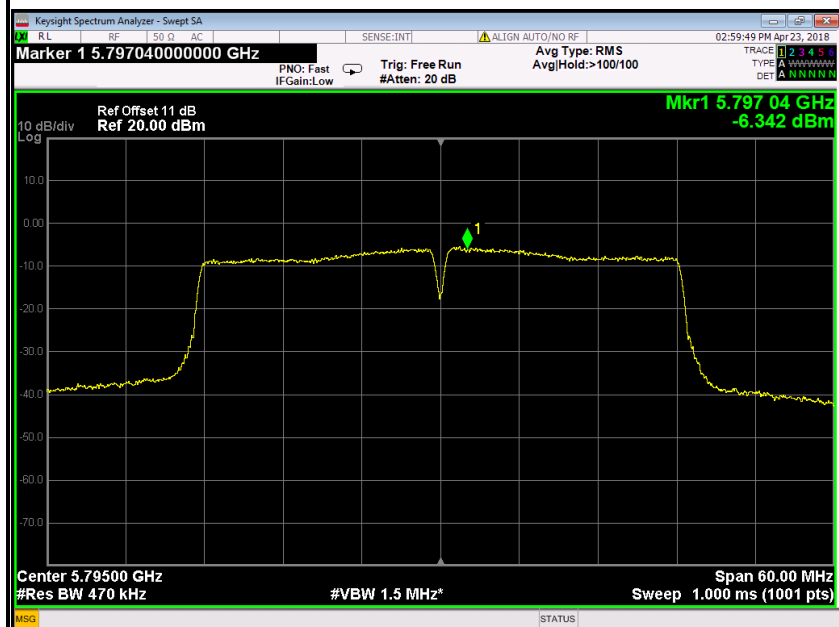


IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)



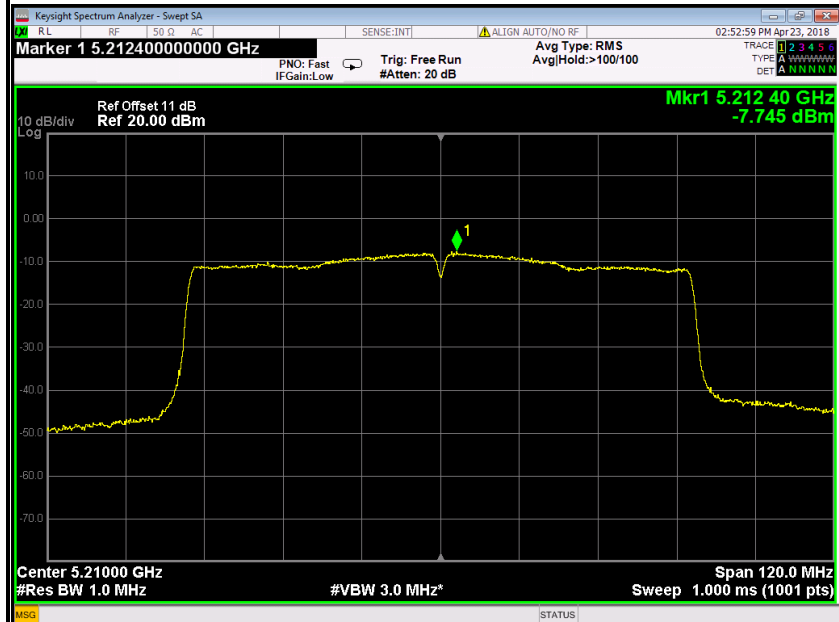
PPSD (CH High)





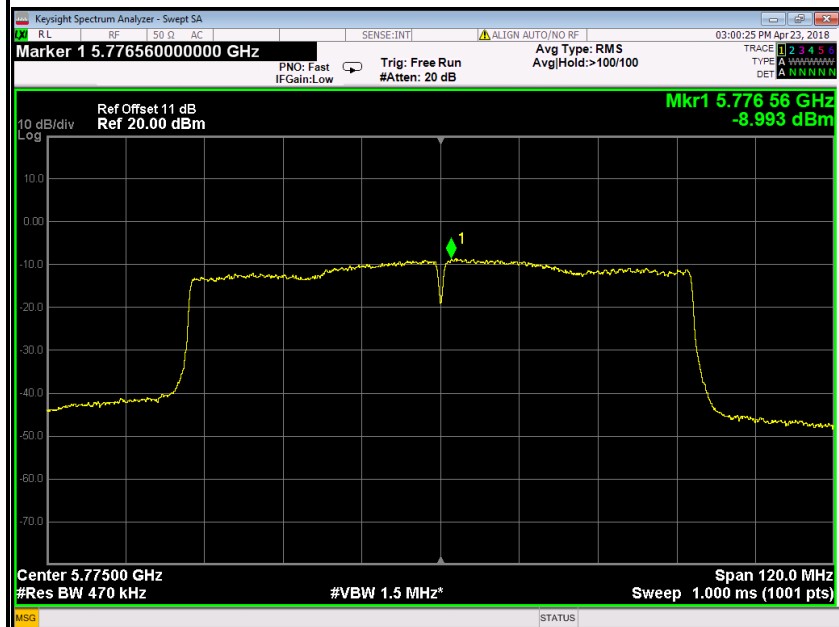
IEEE 802.11ac 80 mode / 5210MHz

PPSD



IEEE 802.11ac 80 mode / 5775MHz

PPSD





6.7 RADIATED UNDESIRABLE EMISSION

6.7.1 LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

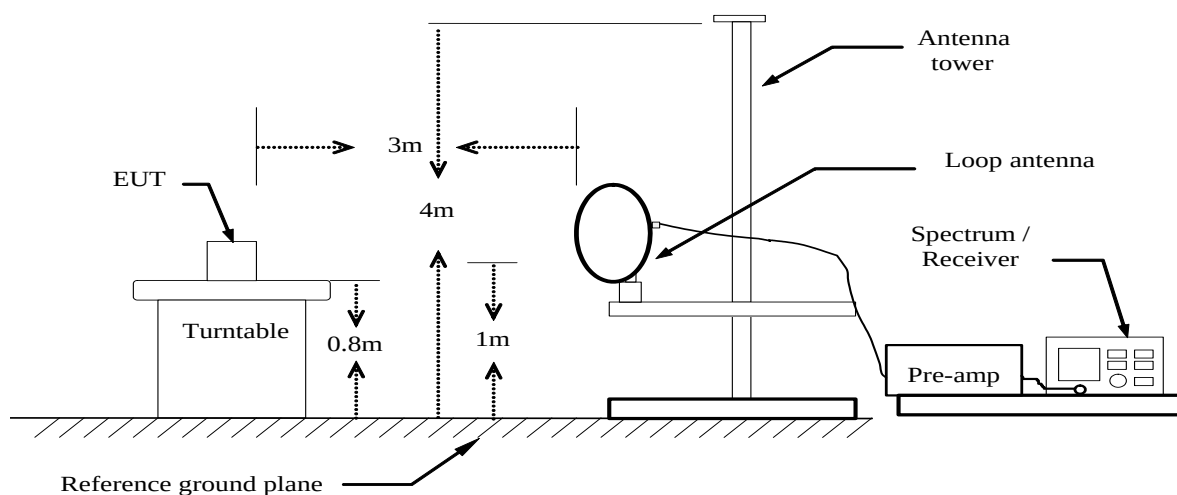


6.7.2 TEST INSTRUMENTS

Radiated Emission Test Site 966 (2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	01/27/2018	01/26/2019
Amplifier	EMEC	EM330	060661	01/27/2018	01/26/2019
High Noise Amplifier	Agilent	8449B	3008A01838	01/27/2018	01/26/2019
Loop Antenna	COM-POWER	AL-130	121044	01/30/2018	01/29/2019
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2018	02/20/2019
Horn Antenna	SCHWARZBECK	BBHA9120	D286	01/27/2018	01/26/2019
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	01/24/2018	01/23/2019
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	01/29/2018	01/28/2019
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

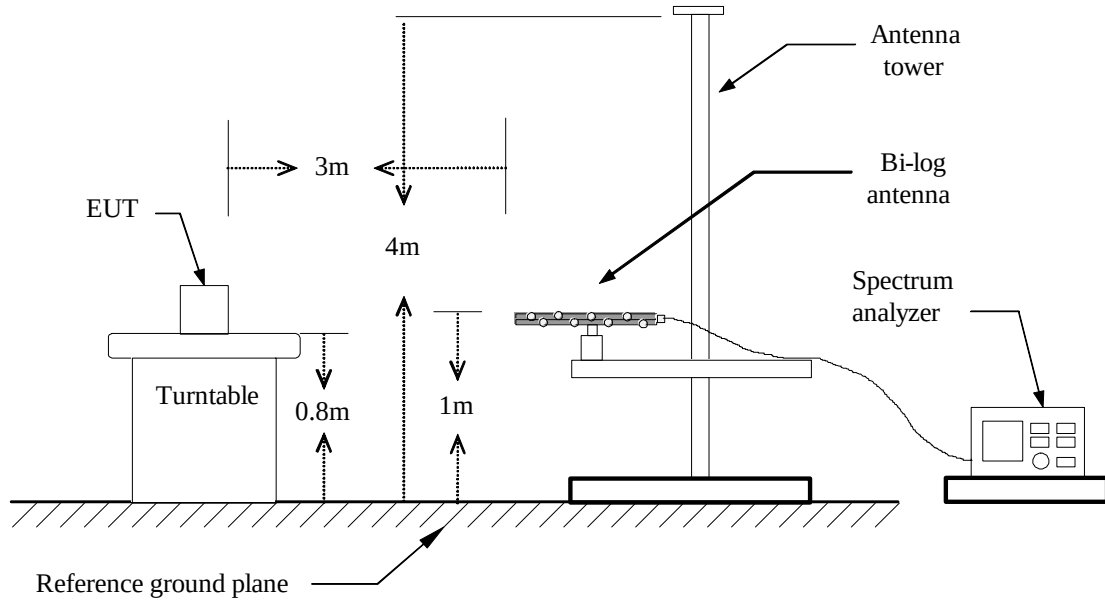
6.7.3 TEST CONFIGURATION

Below 30MHz

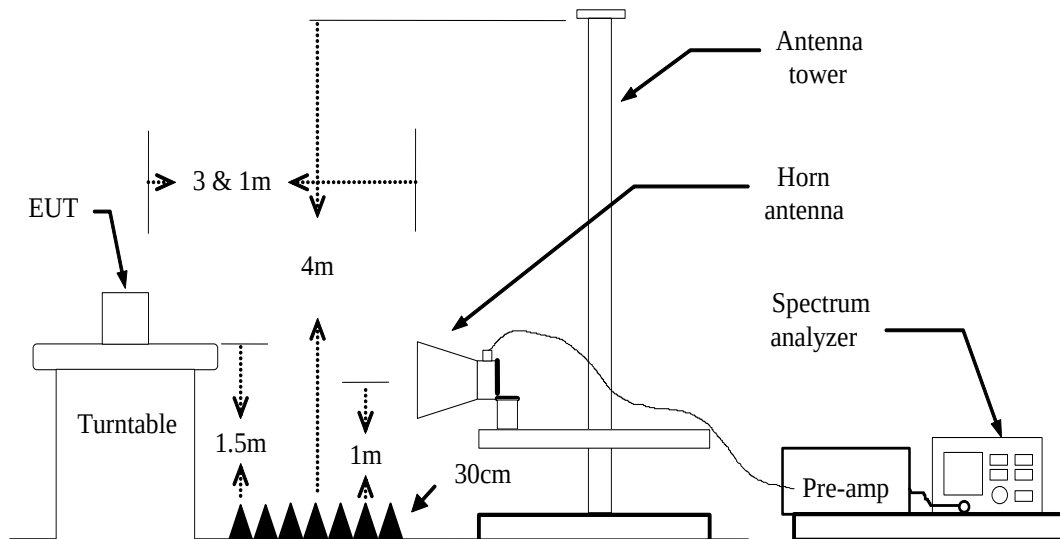




Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the TEST CONFIGURATION.



6.7.4 MEASURING SETTING

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

6.7.5 TEST PROCEDURE

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 0.8 meter.



--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.



Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.



Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

**6.7.6 DATA SAPLE****Below 1GHz**

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer / Receiver reading
 Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
 Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
 Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer / Receiver reading
 Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
 Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
 Peak = Peak Reading
 AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m)

Result (dBuV/m) = Reading (dBuV) + Correction Factor

**6.7.7 TEST RESULTS****Below 1 GHz****Test Mode:** TX / IEEE 802.11a / 5180MHz /(CH Low)**Tested by:** Sam Zeng**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** April 27, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
151.2500	44.32	-11.85	32.47	43.50	-11.03	V	QP
210.4200	46.12	-11.46	34.66	43.50	-8.84	V	QP
392.7800	45.73	-8.48	37.25	46.00	-8.75	V	QP
792.4200	48.88	-4.01	44.87	46.00	-1.13	V	QP
883.6000	37.85	-2.41	35.44	46.00	-10.56	V	QP
966.0500	37.91	-0.58	37.33	54.00	-16.67	V	QP
144.4600	47.02	-11.92	35.10	43.50	-8.40	H	QP
296.7500	49.13	-9.96	39.17	46.00	-6.83	H	QP
306.4500	49.54	-9.97	39.57	46.00	-6.43	H	QP
371.4400	48.29	-8.70	39.59	46.00	-6.41	H	QP
392.7800	48.61	-8.48	40.13	46.00	-5.87	H	QP
792.4200	48.62	-4.01	44.61	46.00	-1.39	H	QP

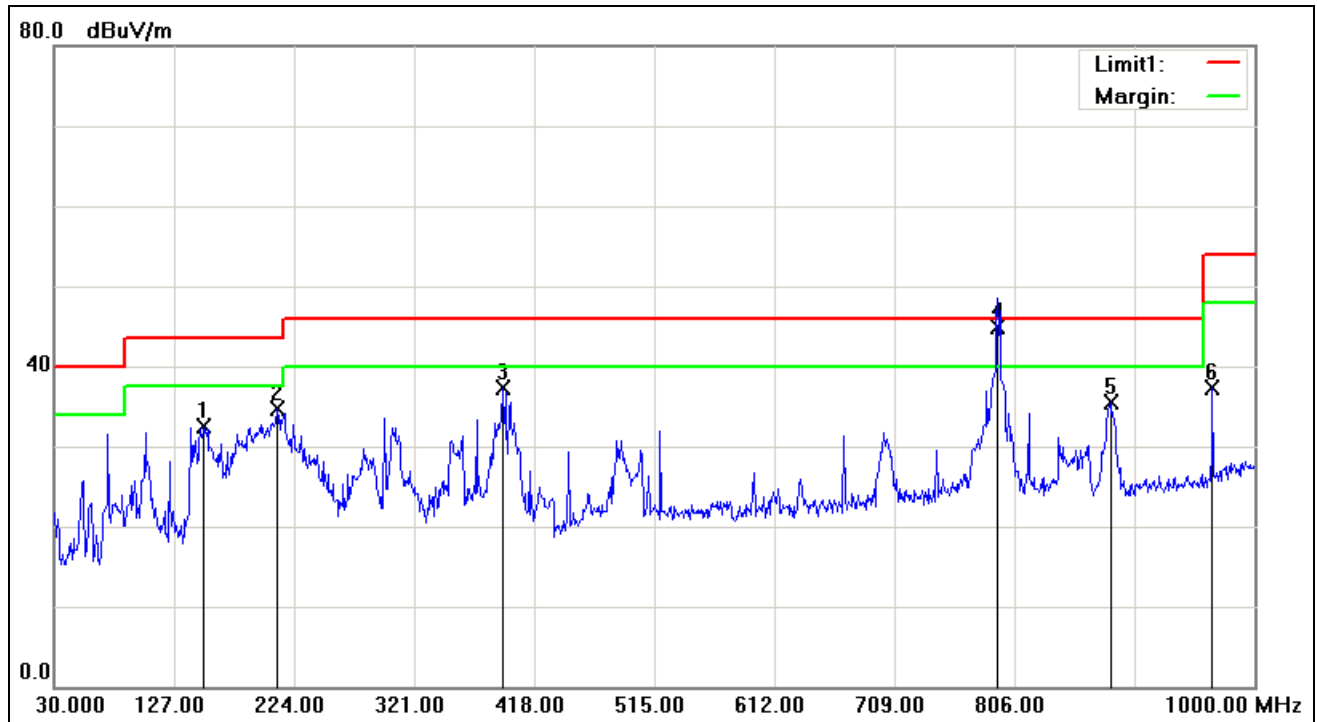
Pre-scan all mode and recorded the worst case results in this report (802.11a (Low Mid)).

Remark:

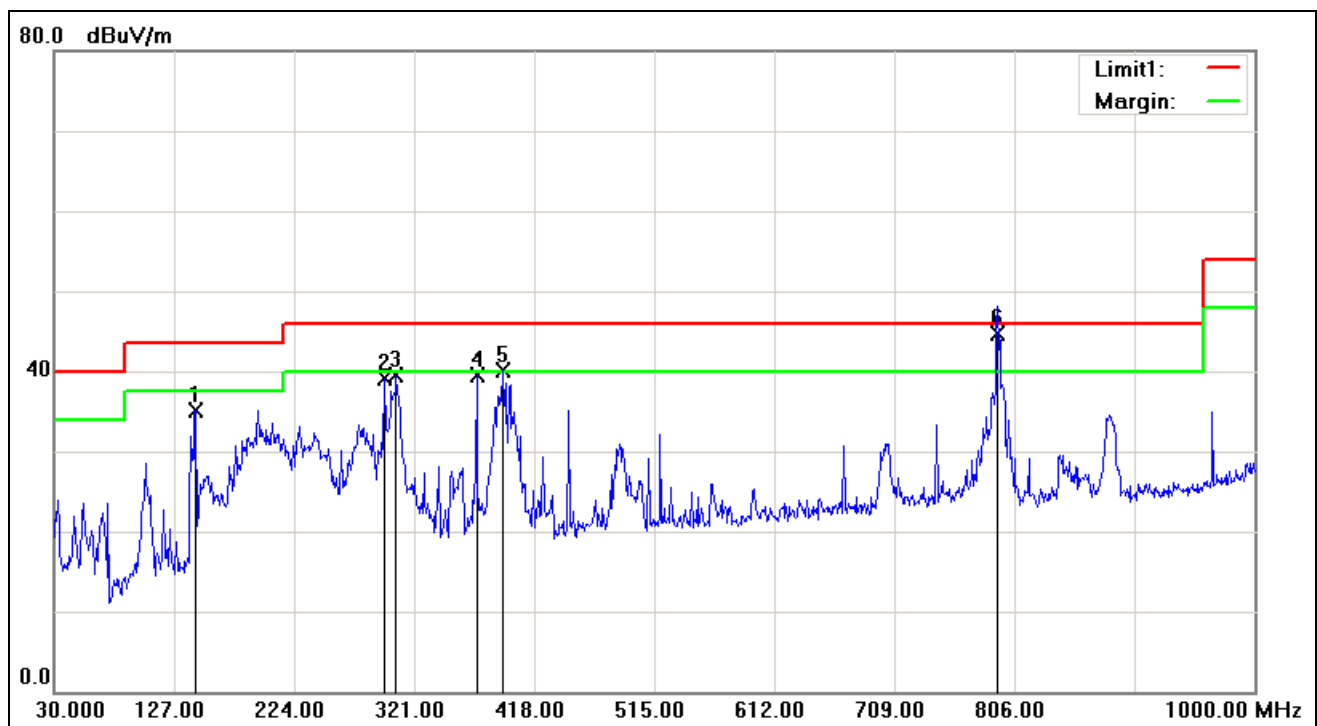
1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).



Vertical



Horizontal



**Above 1-6GHz****Test Mode:** TX / IEEE 802.11a / 5180MHz /(CH Low)**Tested by:** Sam Zeng**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1100.000	56.46	-8.17	48.29	74.00	-25.71	V	peak
1185.000	58.76	-7.85	50.91	74.00	-23.09	V	peak
1980.000	57.24	-5.13	52.11	74.00	-21.89	V	peak
1980.000	44.32	-5.13	39.19	54.00	-14.81	V	AVG
2375.000	56.84	-2.94	53.90	74.00	-20.10	V	peak
2375.000	46.37	-2.94	43.43	54.00	-10.57	V	AVG
2775.000	48.74	-1.76	46.98	74.00	-27.02	V	peak
3960.000	46.42	1.42	47.84	74.00	-26.16	V	peak
1185.000	60.47	-7.85	52.62	74.00	-21.38	H	Peak
1185.000	47.44	-7.85	39.59	54.00	-14.41	H	AVG
1280.000	54.68	-7.50	47.18	74.00	-26.82	H	Peak
1735.000	53.10	-6.41	46.69	74.00	-27.31	H	peak
1980.000	53.35	-5.13	48.22	74.00	-25.78	H	peak
2375.000	55.01	-2.94	52.07	74.00	-21.93	H	peak
2635.000	53.43	-2.02	51.41	74.00	-22.59	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Above 6GHz****Test Mode:** TX / IEEE 802.11a / 5180MHz /(CH Low)**Tested by:** Sam Zeng**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6804.000	31.88	7.38	39.26	74.00	-34.74	V	peak
7968.000	32.03	9.59	41.62	74.00	-32.38	V	peak
10248.000	30.94	12.75	43.69	74.00	-30.31	V	peak
11316.000	31.23	14.94	46.17	74.00	-27.83	V	peak
13692.000	31.22	19.77	50.99	74.00	-23.01	V	peak
15000.000	31.11	21.16	52.27	74.00	-21.73	V	peak
6804.000	32.09	7.38	39.47	74.00	-34.53	H	Peak
8088.000	32.41	9.60	42.01	74.00	-31.99	H	Peak
9420.000	32.42	10.31	42.73	74.00	-31.27	H	Peak
11508.000	31.41	14.86	46.27	74.00	-27.73	H	peak
12540.000	30.51	16.43	46.94	74.00	-27.06	H	peak
15060.000	31.37	20.89	52.26	74.00	-21.74	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11a / 5200MHz /(CH Mid)

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6696.000	31.91	7.21	39.12	74.00	-34.88	V	peak
8040.000	31.82	9.63	41.45	74.00	-32.55	V	peak
9444.000	31.27	10.38	41.65	74.00	-32.35	V	peak
11184.000	31.31	15.00	46.31	74.00	-27.69	V	peak
12744.000	29.53	17.10	46.63	74.00	-27.37	V	peak
15000.000	31.08	21.16	52.24	74.00	-21.76	V	peak
6732.000	31.93	7.27	39.20	74.00	-34.80	H	Peak
7980.000	31.90	9.61	41.51	74.00	-32.49	H	Peak
10032.000	31.48	12.08	43.56	74.00	-30.44	H	Peak
11184.000	31.20	15.00	46.20	74.00	-27.80	H	peak
12576.000	30.15	16.55	46.70	74.00	-27.30	H	peak
14736.000	31.46	21.01	52.47	74.00	-21.53	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11a / 5240MHz /(CH High)

Tested by: Sam Zeng

Ambient temperature: 24°C Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7392.000	31.41	8.46	39.87	74.00	-34.13	V	peak
8004.000	32.04	9.65	41.69	74.00	-32.31	V	peak
9900.000	30.99	11.69	42.68	74.00	-31.32	V	peak
11136.000	31.48	15.02	46.50	74.00	-27.50	V	peak
12588.000	30.14	16.59	46.73	74.00	-27.27	V	peak
14304.000	31.41	20.76	52.17	74.00	-21.83	V	peak
8160.000	32.22	9.56	41.78	74.00	-32.22	H	Peak
9432.000	31.57	10.34	41.91	74.00	-32.09	H	Peak
9876.000	31.08	11.62	42.70	74.00	-31.30	H	Peak
11280.000	31.84	14.96	46.80	74.00	-27.20	H	peak
12588.000	30.25	16.59	46.84	74.00	-27.16	H	peak
14448.000	31.69	20.84	52.53	74.00	-21.47	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11a / 5745MHz /(CH Low)**Tested by:** Sam Zeng**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6828.000	32.28	7.42	39.70	74.00	-34.30	V	peak
8400.000	32.39	9.43	41.82	74.00	-32.18	V	peak
9912.000	31.41	11.73	43.14	74.00	-30.86	V	peak
11136.000	31.39	15.02	46.41	74.00	-27.59	V	peak
12552.000	30.72	16.47	47.19	74.00	-26.81	V	peak
15072.000	31.55	20.83	52.38	74.00	-21.62	V	peak
6672.000	32.13	7.17	39.30	74.00	-34.70	H	Peak
8016.000	32.14	9.64	41.78	74.00	-32.22	H	Peak
9564.000	31.03	10.72	41.75	74.00	-32.25	H	Peak
11160.000	31.86	15.01	46.87	74.00	-27.13	H	peak
12624.000	30.11	16.71	46.82	74.00	-27.18	H	peak
14772.000	31.32	21.03	52.35	74.00	-21.65	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11a / 5785MHz /(CH Mid)

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6708.000	31.94	7.23	39.17	74.00	-34.83	V	peak
7944.000	32.26	9.54	41.80	74.00	-32.20	V	peak
8952.000	31.51	9.13	40.64	74.00	-33.36	V	peak
11136.000	31.38	15.02	46.40	74.00	-27.60	V	peak
12624.000	30.32	16.71	47.03	74.00	-26.97	V	peak
14544.000	31.43	20.90	52.33	74.00	-21.67	V	peak
6792.000	32.16	7.36	39.52	74.00	-34.48	H	Peak
8100.000	31.92	9.60	41.52	74.00	-32.48	H	Peak
10260.000	30.87	12.79	43.66	74.00	-30.34	H	Peak
11148.000	31.15	15.01	46.16	74.00	-27.84	H	peak
12348.000	30.84	15.79	46.63	74.00	-27.37	H	peak
15024.000	31.29	21.05	52.34	74.00	-21.66	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11a / 5825MHz /(CH High)

Tested by: Sam Zeng

Ambient temperature: 24°C Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6984.000	31.55	7.67	39.22	74.00	-34.78	V	peak
8004.000	32.19	9.65	41.84	74.00	-32.16	V	peak
9432.000	31.91	10.34	42.25	74.00	-31.75	V	peak
11256.000	31.30	14.97	46.27	74.00	-27.73	V	peak
13020.000	29.51	18.00	47.51	74.00	-26.49	V	peak
14760.000	31.18	21.02	52.20	74.00	-21.80	V	peak
7200.000	31.91	8.09	40.00	74.00	-34.00	H	Peak
8148.000	32.32	9.57	41.89	74.00	-32.11	H	Peak
9432.000	31.81	10.34	42.15	74.00	-31.85	H	Peak
11340.000	31.15	14.93	46.08	74.00	-27.92	H	peak
12648.000	30.39	16.78	47.17	74.00	-26.83	H	peak
14568.000	31.46	20.91	52.37	74.00	-21.63	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT 20 MHz / 5180MHz /(CH Low)**Tested by:** Sam Zeng**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6744.000	32.16	7.29	39.45	74.00	-34.55	V	peak
8100.000	32.05	9.60	41.65	74.00	-32.35	V	peak
8808.000	31.92	9.21	41.13	74.00	-32.87	V	peak
11172.000	31.62	15.00	46.62	74.00	-27.38	V	peak
12624.000	30.14	16.71	46.85	74.00	-27.15	V	peak
14940.000	31.28	21.13	52.41	74.00	-21.59	V	peak
6876.000	31.92	7.50	39.42	74.00	-34.58	H	Peak
8112.000	32.20	9.59	41.79	74.00	-32.21	H	Peak
9348.000	32.05	10.10	42.15	74.00	-31.85	H	Peak
11136.000	31.19	15.02	46.21	74.00	-27.79	H	peak
12648.000	30.15	16.78	46.93	74.00	-27.07	H	peak
14880.000	31.35	21.09	52.44	74.00	-21.56	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11n HT 20 MHz / 5200MHz /(CH Mid)

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7932.000	32.03	9.52	41.55	74.00	-32.45	V	peak
10260.000	30.79	12.79	43.58	74.00	-30.42	V	peak
10680.000	31.13	14.09	45.22	74.00	-28.78	V	peak
11172.000	31.53	15.00	46.53	74.00	-27.47	V	peak
14016.000	30.52	20.59	51.11	74.00	-22.89	V	peak
14820.000	31.18	21.06	52.24	74.00	-21.76	V	peak
8124.000	31.90	9.58	41.48	74.00	-32.52	H	Peak
10248.000	31.24	12.75	43.99	74.00	-30.01	H	Peak
11244.000	31.24	14.97	46.21	74.00	-27.79	H	Peak
13044.000	29.45	18.07	47.52	74.00	-26.48	H	peak
14304.000	31.21	20.76	51.97	74.00	-22.03	H	peak
14748.000	31.65	21.01	52.66	74.00	-21.34	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11n HT 20 MHz / 5240MHz /(CH High)

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
8184.000	32.22	9.55	41.77	74.00	-32.23	V	peak
10488.000	31.12	13.49	44.61	74.00	-29.39	V	peak
11484.000	31.68	14.87	46.55	74.00	-27.45	V	peak
13044.000	29.01	18.07	47.08	74.00	-26.92	V	peak
14064.000	30.71	20.62	51.33	74.00	-22.67	V	peak
14676.000	31.35	20.97	52.32	74.00	-21.68	V	peak
6732.000	31.95	7.27	39.22	74.00	-34.78	H	Peak
8100.000	32.02	9.60	41.62	74.00	-32.38	H	Peak
10344.000	30.71	13.05	43.76	74.00	-30.24	H	Peak
11136.000	31.45	15.02	46.47	74.00	-27.53	H	peak
12624.000	29.78	16.71	46.49	74.00	-27.51	H	peak
14892.000	31.22	21.10	52.32	74.00	-21.68	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT 20 MHz / 5745MHz /(CH Low)**Tested by:** Sam Zeng**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7056.000	31.88	7.81	39.69	74.00	-34.31	V	peak
7728.000	32.58	9.12	41.70	74.00	-32.30	V	peak
9756.000	30.79	11.28	42.07	74.00	-31.93	V	peak
11160.000	31.67	15.01	46.68	74.00	-27.32	V	peak
12684.000	29.61	16.90	46.51	74.00	-27.49	V	peak
14388.000	31.43	20.81	52.24	74.00	-21.76	V	peak
7188.000	31.53	8.07	39.60	74.00	-34.40	H	Peak
8160.000	31.92	9.56	41.48	74.00	-32.52	H	Peak
9444.000	31.37	10.38	41.75	74.00	-32.25	H	Peak
11136.000	31.20	15.02	46.22	74.00	-27.78	H	peak
13020.000	29.49	18.00	47.49	74.00	-26.51	H	peak
14820.000	31.19	21.06	52.25	74.00	-21.75	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT 20 MHz / 5785MHz /(CH Mid) **Tested by:** Sam Zeng**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6900.000	31.74	7.54	39.28	74.00	-34.72	V	peak
8028.000	31.74	9.63	41.37	74.00	-32.63	V	peak
9408.000	31.30	10.28	41.58	74.00	-32.42	V	peak
10692.000	30.95	14.13	45.08	74.00	-28.92	V	peak
11136.000	31.12	15.02	46.14	74.00	-27.86	V	peak
12588.000	29.90	16.59	46.49	74.00	-27.51	V	peak
7296.000	31.72	8.28	40.00	74.00	-34.00	H	Peak
8412.000	31.93	9.42	41.35	74.00	-32.65	H	Peak
9396.000	31.58	10.24	41.82	74.00	-32.18	H	Peak
11136.000	31.33	15.02	46.35	74.00	-27.65	H	peak
12624.000	29.92	16.71	46.63	74.00	-27.37	H	peak
15012.000	31.09	21.11	52.20	74.00	-21.80	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11n HT 20 MHz / 5825MHz /(CH High) Tested by: Sam Zeng

Ambient temperature: 24°C Relative humidity: 52% RH Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6816.000	31.80	7.40	39.20	74.00	-34.80	V	peak
8028.000	31.79	9.63	41.42	74.00	-32.58	V	peak
9336.000	30.48	10.07	40.55	74.00	-33.45	V	peak
11160.000	31.02	15.01	46.03	74.00	-27.97	V	peak
12324.000	30.35	15.71	46.06	74.00	-27.94	V	peak
12912.000	29.04	17.66	46.70	74.00	-27.30	V	peak
6804.000	31.72	7.38	39.10	74.00	-34.90	H	Peak
8076.000	31.76	9.61	41.37	74.00	-32.63	H	Peak
9672.000	30.41	11.04	41.45	74.00	-32.55	H	Peak
10620.000	31.15	13.90	45.05	74.00	-28.95	H	peak
11136.000	30.98	15.02	46.00	74.00	-28.00	H	peak
12708.000	29.47	16.98	46.45	74.00	-27.55	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11n HT 40 MHz / 5190MHz /(CH Low)

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6708.000	32.23	7.23	39.46	74.00	-34.54	V	peak
8088.000	31.81	9.60	41.41	74.00	-32.59	V	peak
8976.000	31.39	9.11	40.50	74.00	-33.50	V	peak
9840.000	31.16	11.52	42.68	74.00	-31.32	V	peak
11172.000	30.91	15.00	45.91	74.00	-28.09	V	peak
12648.000	29.46	16.78	46.24	74.00	-27.76	V	peak
6780.000	32.41	7.34	39.75	74.00	-34.25	H	Peak
8016.000	31.97	9.64	41.61	74.00	-32.39	H	Peak
8424.000	31.67	9.42	41.09	74.00	-32.91	H	Peak
9444.000	31.29	10.38	41.67	74.00	-32.33	H	peak
11244.000	30.97	14.97	45.94	74.00	-28.06	H	peak
12780.000	29.15	17.22	46.37	74.00	-27.63	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5230MHz / (CH High)Tested by: Sam ZengAmbient temperature: 24°CRelative humidity: 52% RHDate: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6732.000	32.37	7.27	39.64	74.00	-34.36	V	peak
7968.000	32.35	9.59	41.94	74.00	-32.06	V	peak
9408.000	31.12	10.28	41.40	74.00	-32.60	V	peak
10104.000	30.90	12.30	43.20	74.00	-30.80	V	peak
11136.000	31.20	15.02	46.22	74.00	-27.78	V	peak
13200.000	29.98	18.48	48.46	74.00	-25.54	V	peak
6804.000	32.21	7.38	39.59	74.00	-34.41	H	Peak
8088.000	31.98	9.60	41.58	74.00	-32.42	H	Peak
8928.000	31.71	9.14	40.85	74.00	-33.15	H	Peak
9336.000	31.65	10.07	41.72	74.00	-32.28	H	peak
11136.000	31.16	15.02	46.18	74.00	-27.82	H	peak
12636.000	29.61	16.75	46.36	74.00	-27.64	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11n HT 40 MHz / 5755MHz / (CH Low)

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7212.000	32.02	8.11	40.13	74.00	-33.87	V	peak
8388.000	32.20	9.44	41.64	74.00	-32.36	V	peak
9012.000	31.72	9.13	40.85	74.00	-33.15	V	peak
9624.000	30.92	10.90	41.82	74.00	-32.18	V	peak
11160.000	31.18	15.01	46.19	74.00	-27.81	V	peak
12684.000	29.25	16.90	46.15	74.00	-27.85	V	peak
6840.000	32.01	7.44	39.45	74.00	-34.55	H	Peak
7956.000	31.82	9.56	41.38	74.00	-32.62	H	Peak
9336.000	31.31	10.07	41.38	74.00	-32.62	H	Peak
11148.000	31.17	15.01	46.18	74.00	-27.82	H	peak
12588.000	29.93	16.59	46.52	74.00	-27.48	H	peak
13236.000	29.56	18.57	48.13	74.00	-25.87	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5795MHz / (CH High)Tested by: Sam ZengAmbient temperature: 24°CRelative humidity: 52% RHDate: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6816.000	32.38	7.40	39.78	74.00	-34.22	V	peak
8124.000	32.00	9.58	41.58	74.00	-32.42	V	peak
9012.000	32.21	9.13	41.34	74.00	-32.66	V	peak
10236.000	30.44	12.71	43.15	74.00	-30.85	V	peak
11148.000	31.19	15.01	46.20	74.00	-27.80	V	peak
12612.000	30.10	16.67	46.77	74.00	-27.23	V	peak
6744.000	31.96	7.29	39.25	74.00	-34.75	H	Peak
8148.000	31.98	9.57	41.55	74.00	-32.45	H	Peak
9012.000	32.36	9.13	41.49	74.00	-32.51	H	Peak
10092.000	30.74	12.27	43.01	74.00	-30.99	H	peak
11136.000	31.22	15.02	46.24	74.00	-27.76	H	peak
12648.000	29.87	16.78	46.65	74.00	-27.35	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802. 11ac 80 / 5210MHz /(CH Low)

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7116.000	31.94	7.93	39.87	74.00	-34.13	V	peak
8124.000	31.81	9.58	41.39	74.00	-32.61	V	peak
9432.000	31.12	10.34	41.46	74.00	-32.54	V	peak
10044.000	30.97	12.12	43.09	74.00	-30.91	V	peak
11172.000	30.94	15.00	45.94	74.00	-28.06	V	peak
12636.000	30.03	16.75	46.78	74.00	-27.22	V	peak
7008.000	32.24	7.72	39.96	74.00	-34.04	H	Peak
8172.000	31.97	9.56	41.53	74.00	-32.47	H	Peak
9660.000	30.65	11.00	41.65	74.00	-32.35	H	Peak
10596.000	30.79	13.83	44.62	74.00	-29.38	H	peak
11196.000	31.02	14.99	46.01	74.00	-27.99	H	peak
12600.000	29.82	16.63	46.45	74.00	-27.55	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Test Mode: TX / IEEE 802.11ac 80 / 5775MHz

Tested by: Sam Zeng

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: April 19, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7032.000	32.17	7.76	39.93	74.00	-34.07	V	peak
8304.000	32.02	9.48	41.50	74.00	-32.50	V	peak
10152.000	30.68	12.45	43.13	74.00	-30.87	V	peak
11316.000	31.11	14.94	46.05	74.00	-27.95	V	peak
12684.000	29.18	16.90	46.08	74.00	-27.92	V	peak
13260.000	28.73	18.63	47.36	74.00	-26.64	V	peak
7296.000	32.23	8.28	40.51	74.00	-33.49	H	Peak
8112.000	32.54	9.59	42.13	74.00	-31.87	H	Peak
9012.000	31.95	9.13	41.08	74.00	-32.92	H	Peak
10620.000	30.80	13.90	44.70	74.00	-29.30	H	peak
11160.000	31.58	15.01	46.59	74.00	-27.41	H	peak
12636.000	30.05	16.75	46.80	74.00	-27.20	H	peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



6.8 CONDUCTED UNDESIRABLE EMISSION

6.8.1 LIMIT

According to 15.407(b),

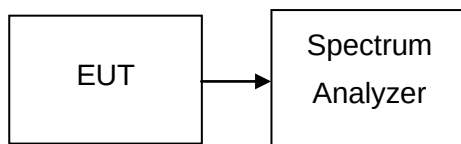
- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (3) The provisions of §15.205 apply to intentional radiators operating under this section.

6.8.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019

Remark: Each piece of equipment is scheduled for calibration once a year.

6.8.3 TEST CONFIGURATION



6.8.4 TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 1MHz. The video bandwidth is set to 3MHz. Peak detection measurements are compared to the average EIRP limit, adjusted for the maximum antenna gain. If necessary, additional average detection measurements are made.

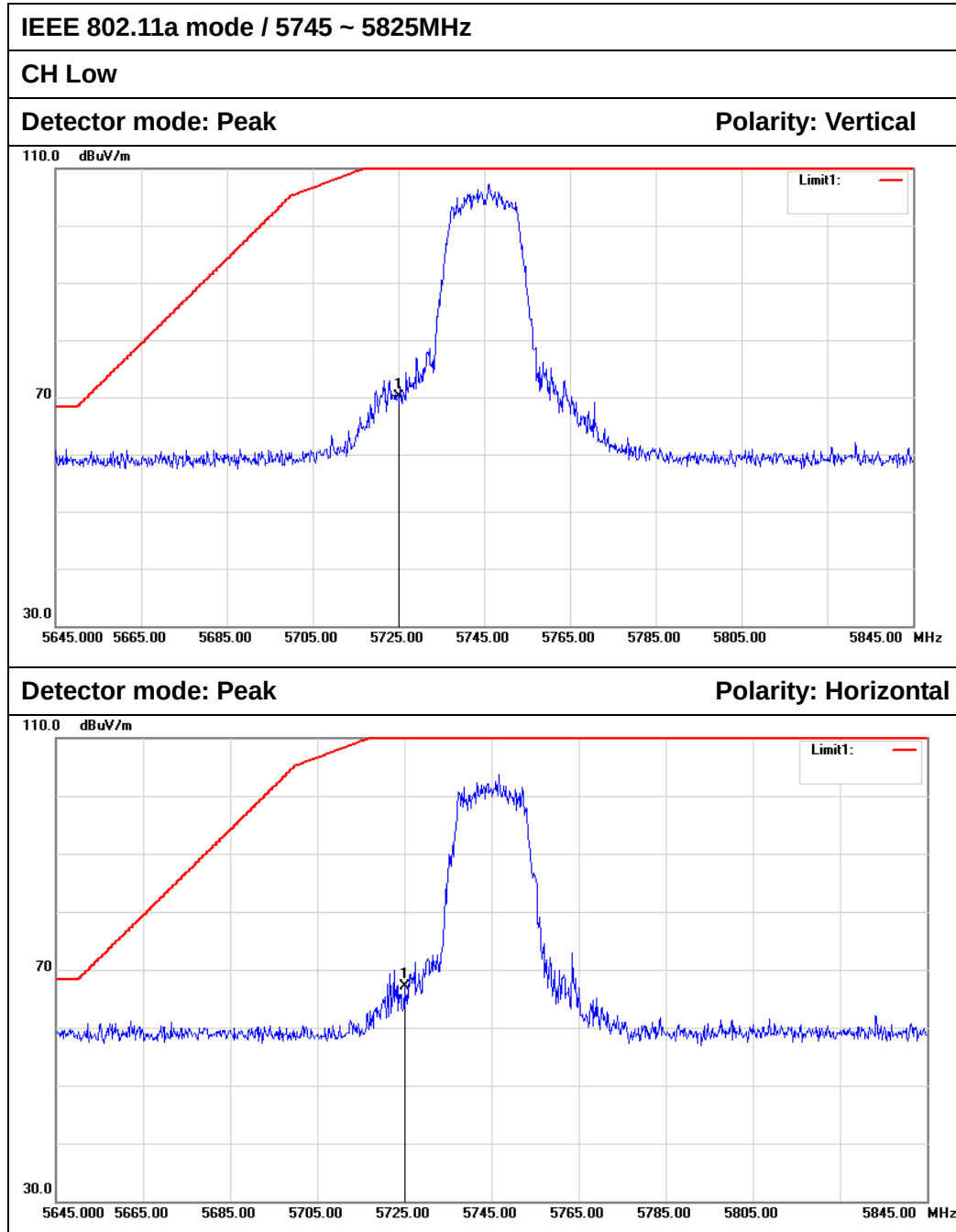
Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.



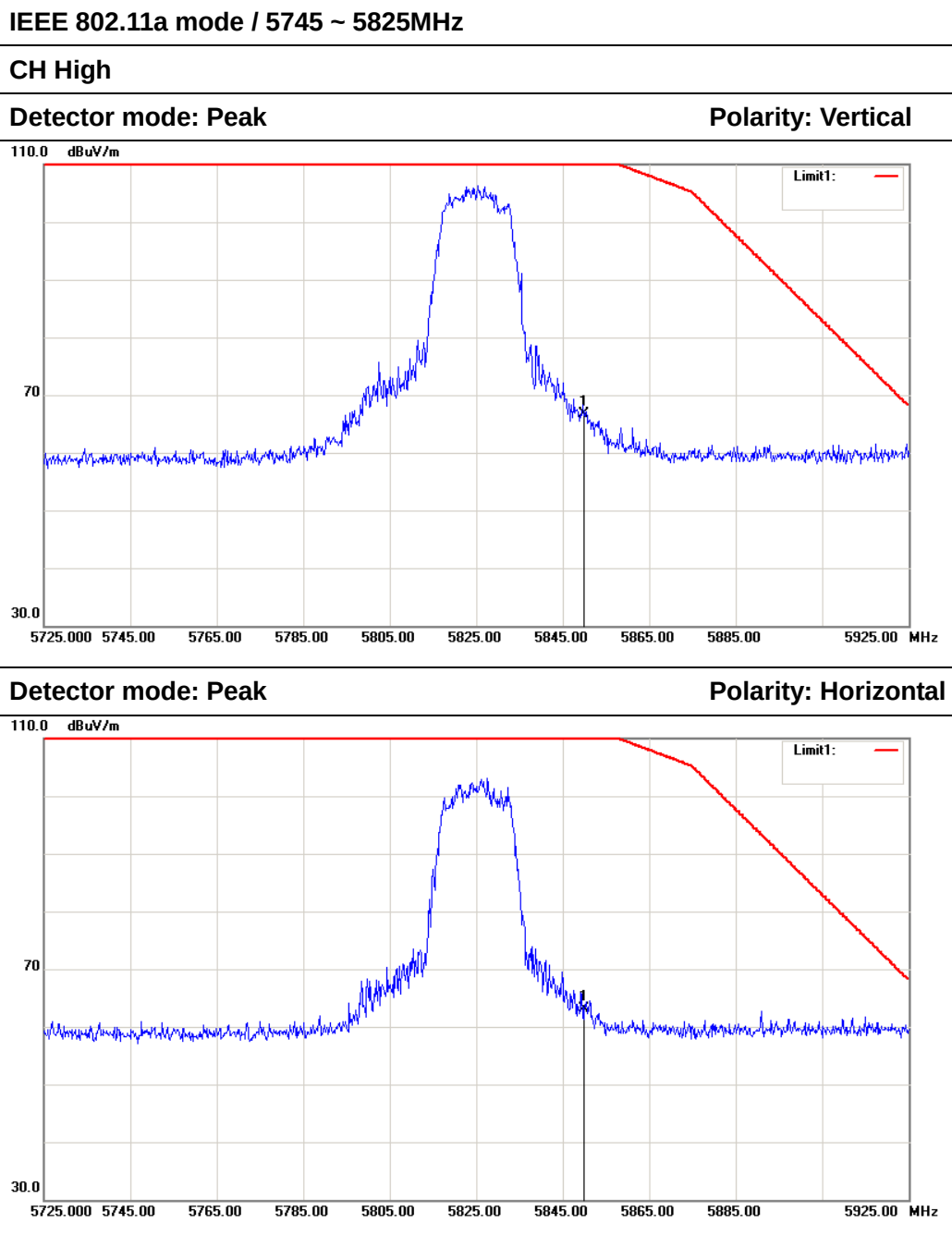
6.8.5 TEST RESULTS

No non-compliance noted

Test Plot



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	64.14	5.96	70.10	122.20	-52.10	Peak	Vertical
2	5725.000	61.22	5.96	67.18	122.20	-55.02	Peak	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	60.67	6.02	66.69	122.20	-55.51	Peak	Vertical
2	5850.000	57.06	6.02	63.08	122.20	-59.12	Peak	Horizontal

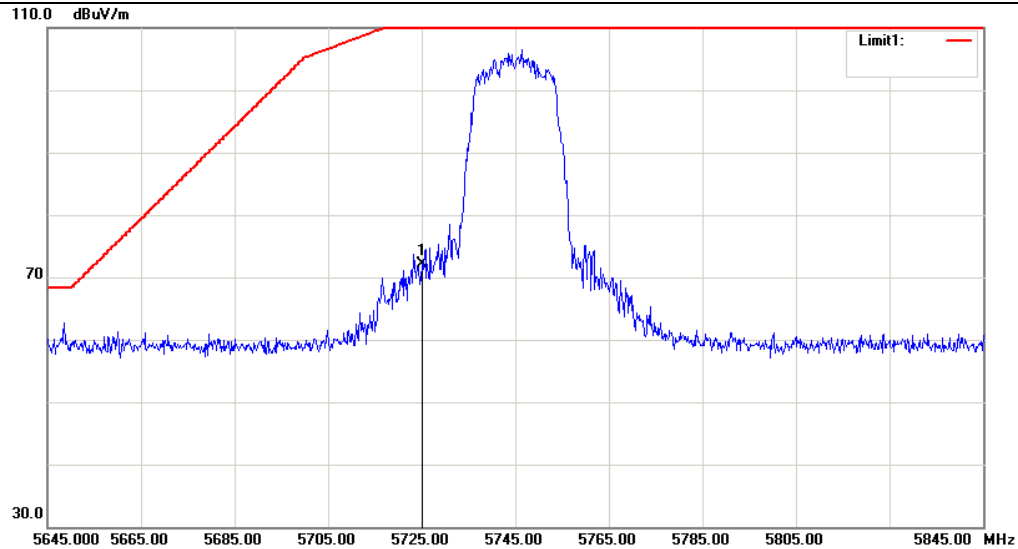


IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH Low

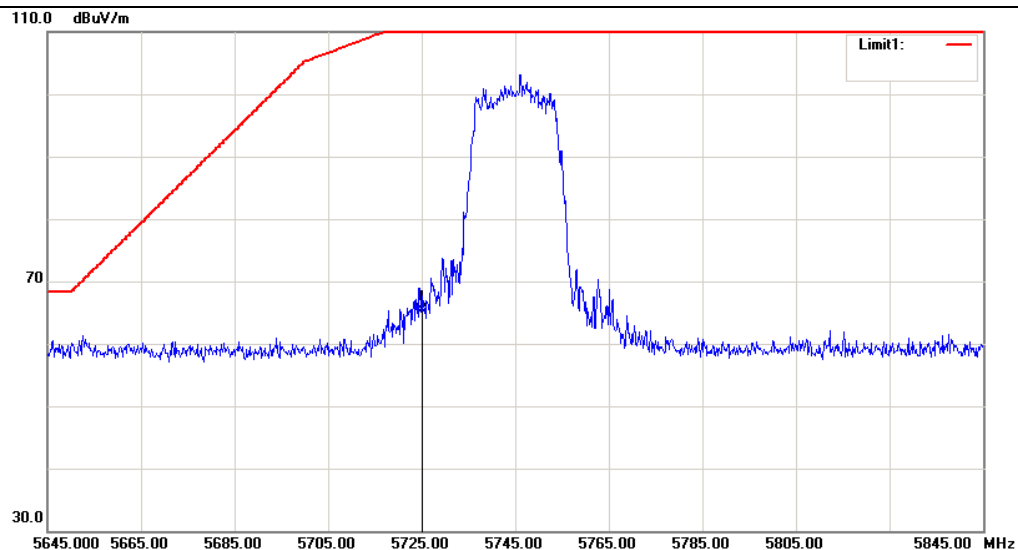
Detector mode: Peak

Polarity: Vertical

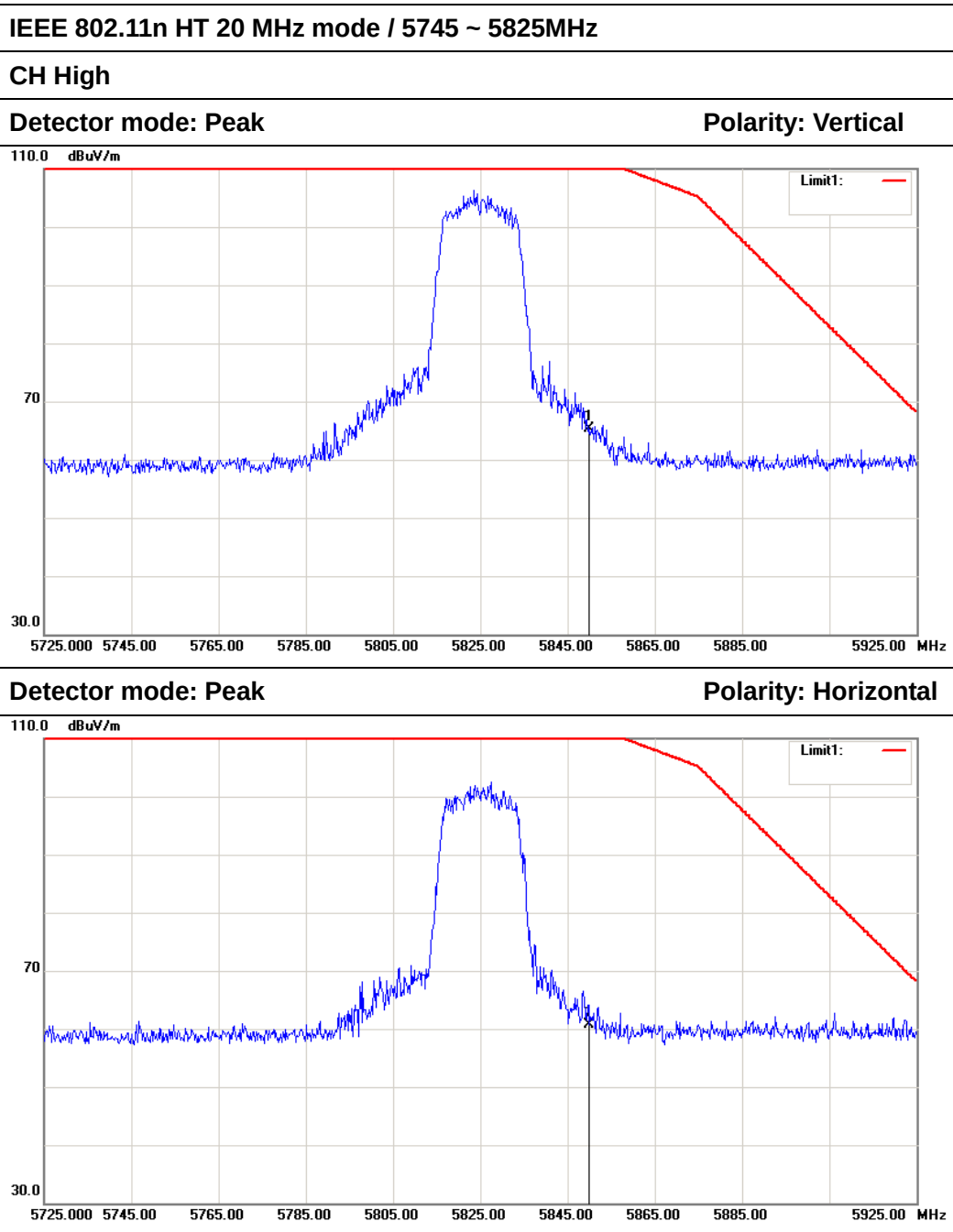


Detector mode: Peak

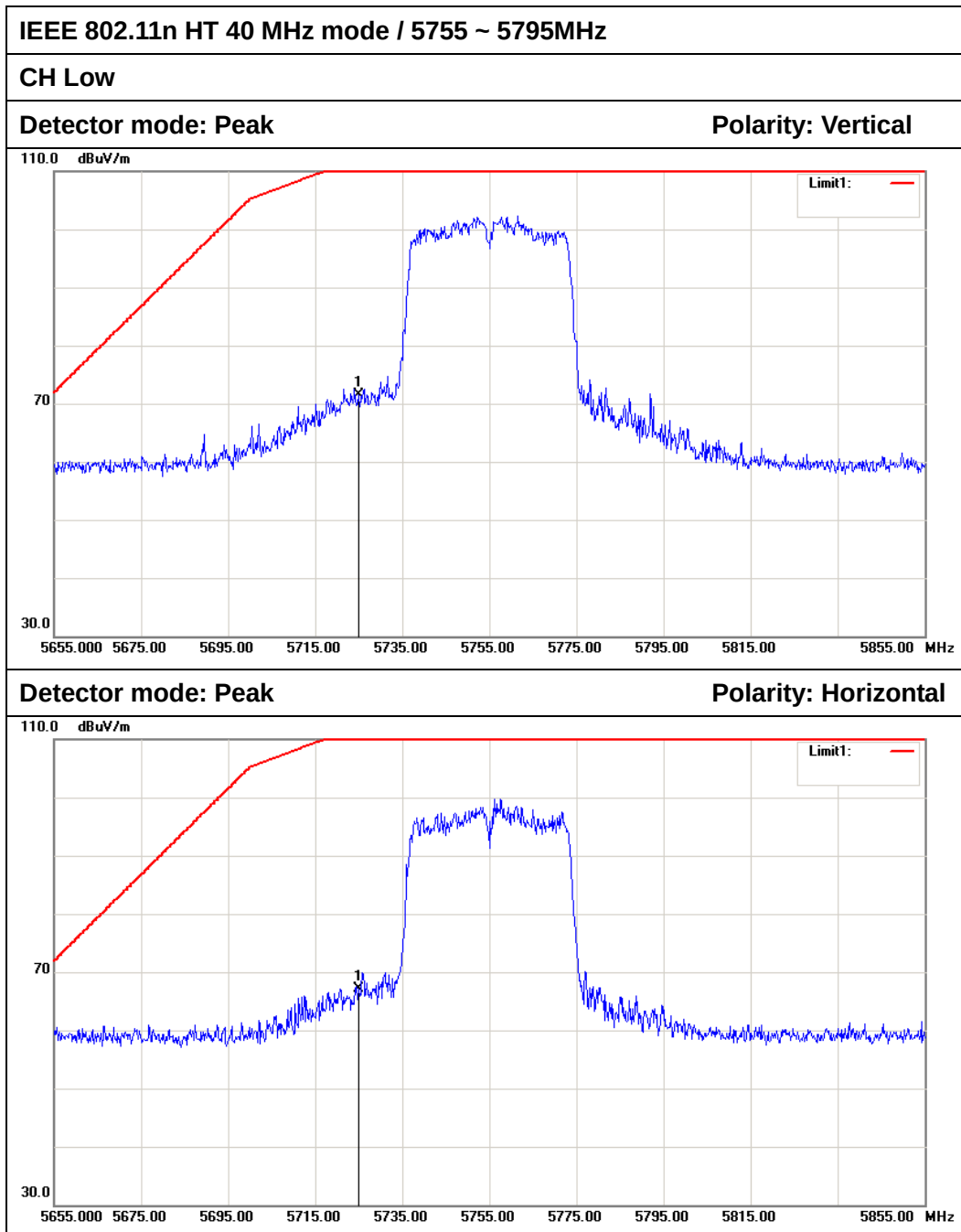
Polarity: Horizontal



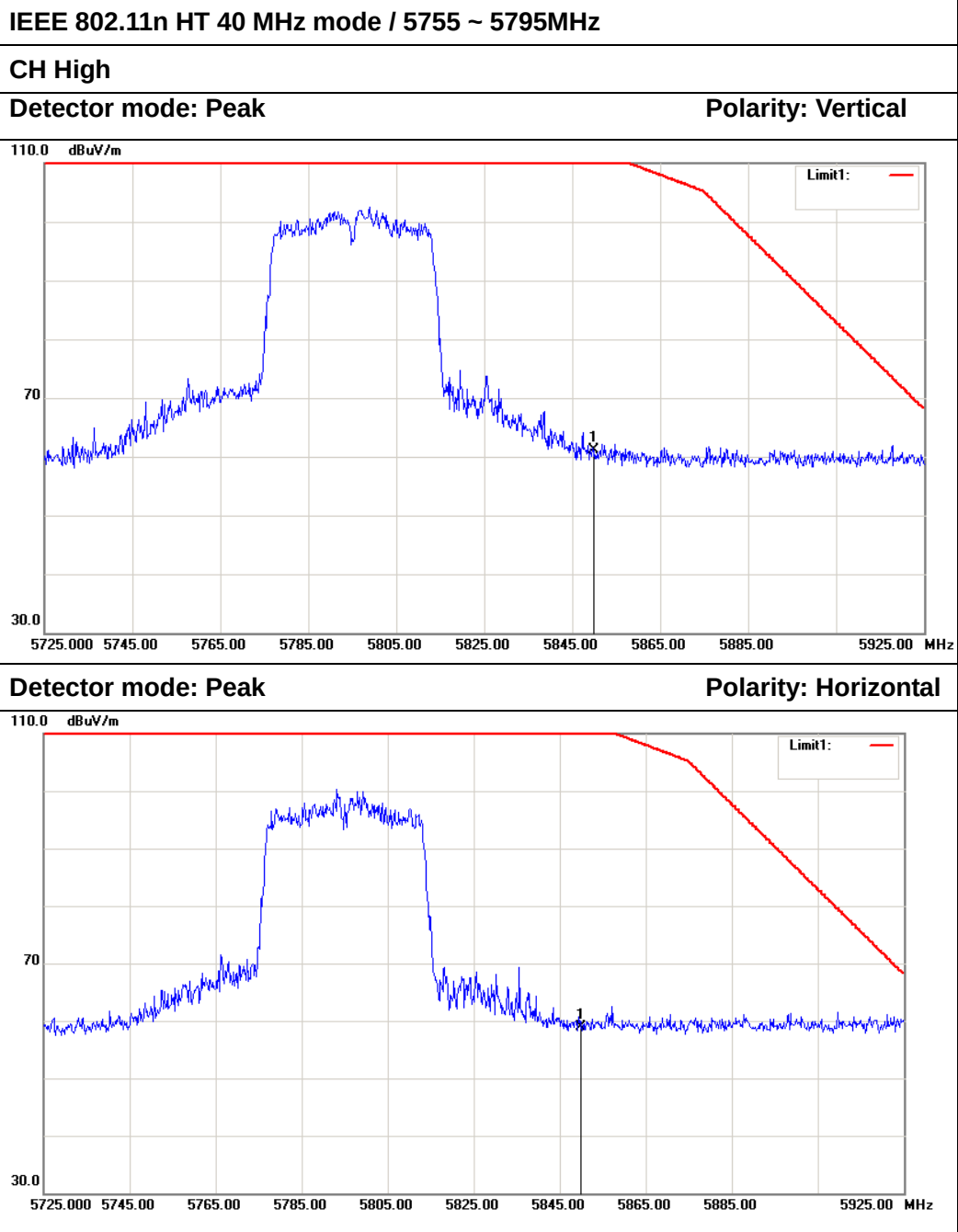
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	66.13	5.96	72.09	122.20	-50.11	Peak	Vertical
2	5725.000	59.29	5.96	65.25	122.20	-56.95	Peak	Horizontal



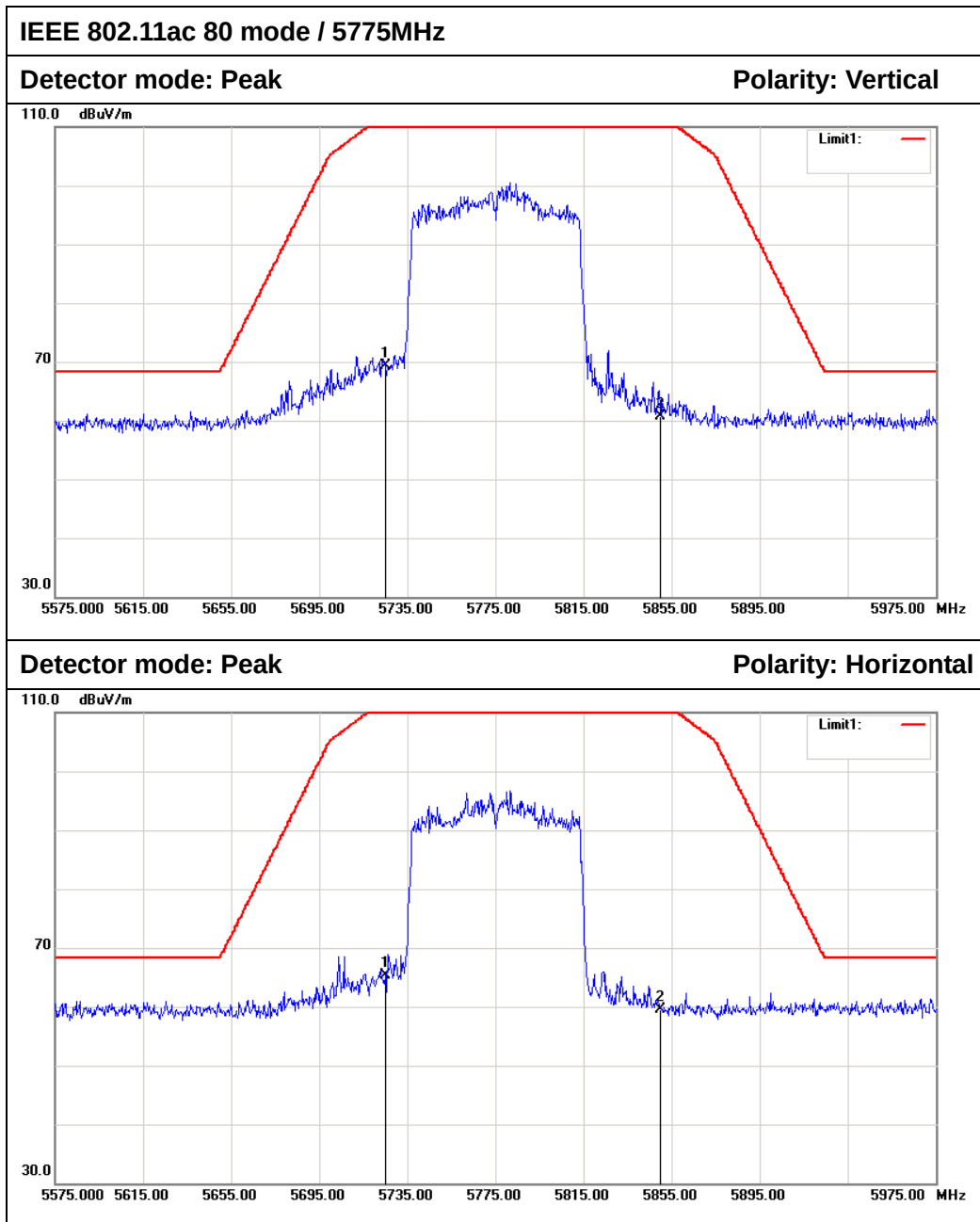
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	59.23	6.02	65.25	122.20	-56.95	Peak	Vertical
2	5850.000	54.72	6.02	60.74	122.20	-61.46	Peak	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	65.50	5.96	71.46	122.20	-50.74	Peak	Vertical
2	5725.000	61.14	5.96	67.10	122.20	-55.10	Peak	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	55.04	6.02	61.06	122.20	-61.14	Peak	Vertical
2	5850.000	52.80	6.02	58.82	122.20	-63.38	Peak	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	63.26	5.96	69.22	122.20	-52.98	Peak	Vertical
2	5850.000	54.74	6.02	60.76	122.20	-61.44	Peak	Vertical
1	5725.000	59.31	5.96	65.27	122.20	-56.93	Peak	Horizontal
2	5850.000	53.52	6.02	59.54	122.20	-62.66	Peak	Horizontal



6.9 POWERLINE CONDUCTED EMISSIONS

6.9.1 LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

6.9.2 TEST INSTRUMENTS

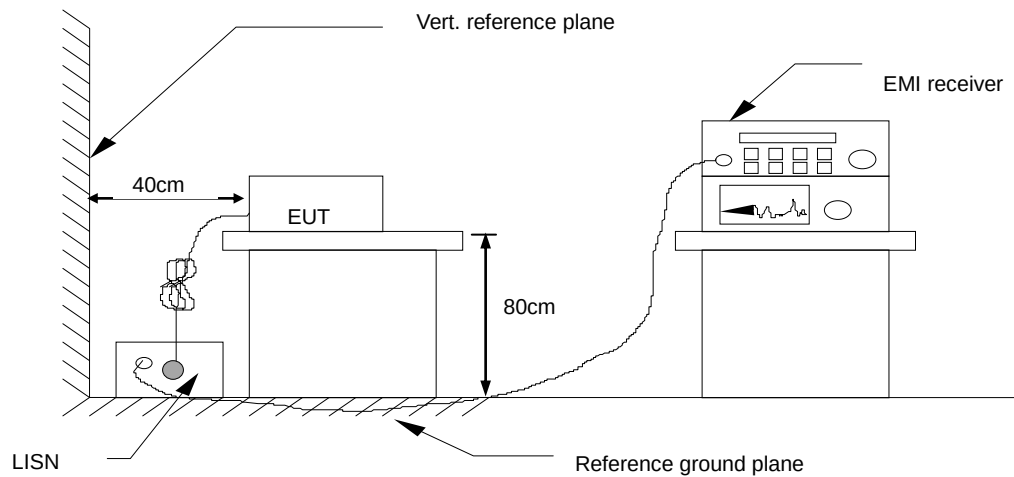
Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	01/27/2018	01/26/2019
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	01/27/2018	01/26/2019
LISN	EMCO	3825/2	8901-1459	01/27/2018	01/26/2019
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	01/29/2018	01/28/2019
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.



6.9.3 TEST CONFIGURATION



6.9.4 TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

6.9.5 DATA SAMPLE

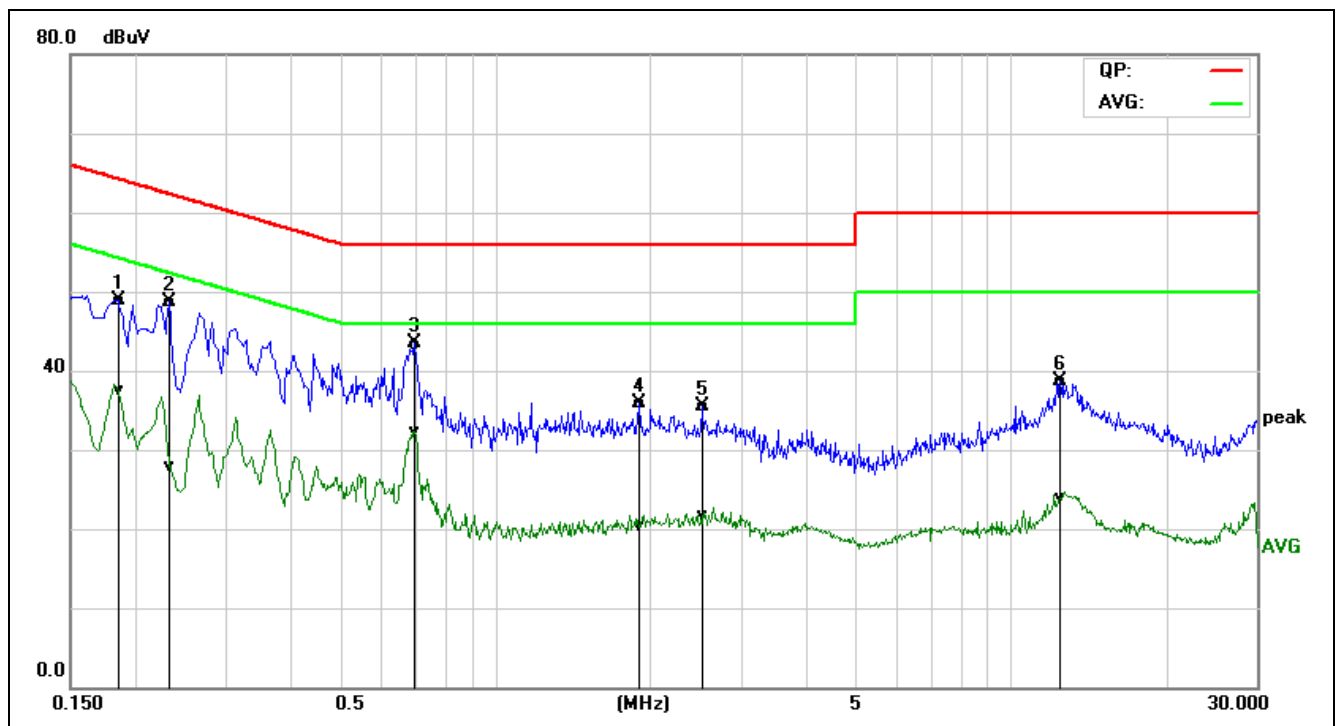
Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss
Result = Quasi-peak Reading/ Average Reading + Factor
Limit = Limit stated in standard
Margin = Result (dBuV) – Limit (dBuV)



6.9.6 TEST RESULTS

Model No.	NC1000	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Sam Zeng	Line	L
Test Date	May 21, 2018	Test Voltage	AC120V/60Hz

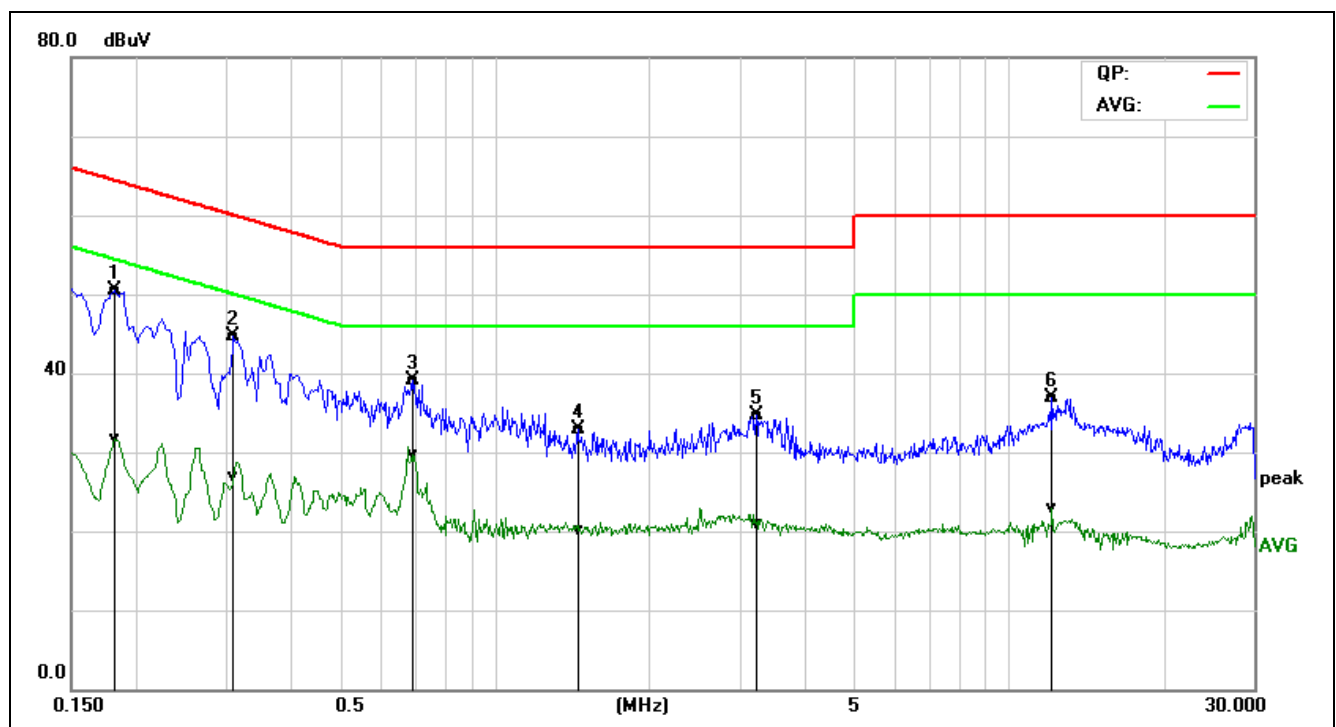


Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1860	29.21	17.88	19.63	48.84	37.51	64.21	54.21	-15.37	-16.70	Pass	L1
0.2340	29.09	8.28	19.63	48.72	27.91	62.30	52.31	-13.58	-24.40	Pass	L1
0.6980	23.79	12.76	19.61	43.40	32.37	56.00	46.00	-12.60	-13.63	Pass	L1
1.9060	16.23	0.51	19.70	35.93	20.21	56.00	46.00	-20.07	-25.79	Pass	L1
2.5180	15.75	1.99	19.72	35.47	21.71	56.00	46.00	-20.53	-24.29	Pass	L1
12.4860	18.58	3.81	20.08	38.66	23.89	60.00	50.00	-21.34	-26.11	Pass	L1

REMARKS: L= Line One (Live Line)



Model No.	NC1000	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Sam Zeng	Line	N
Test Date	May 21, 2018	Test Voltage	AC120V/60Hz

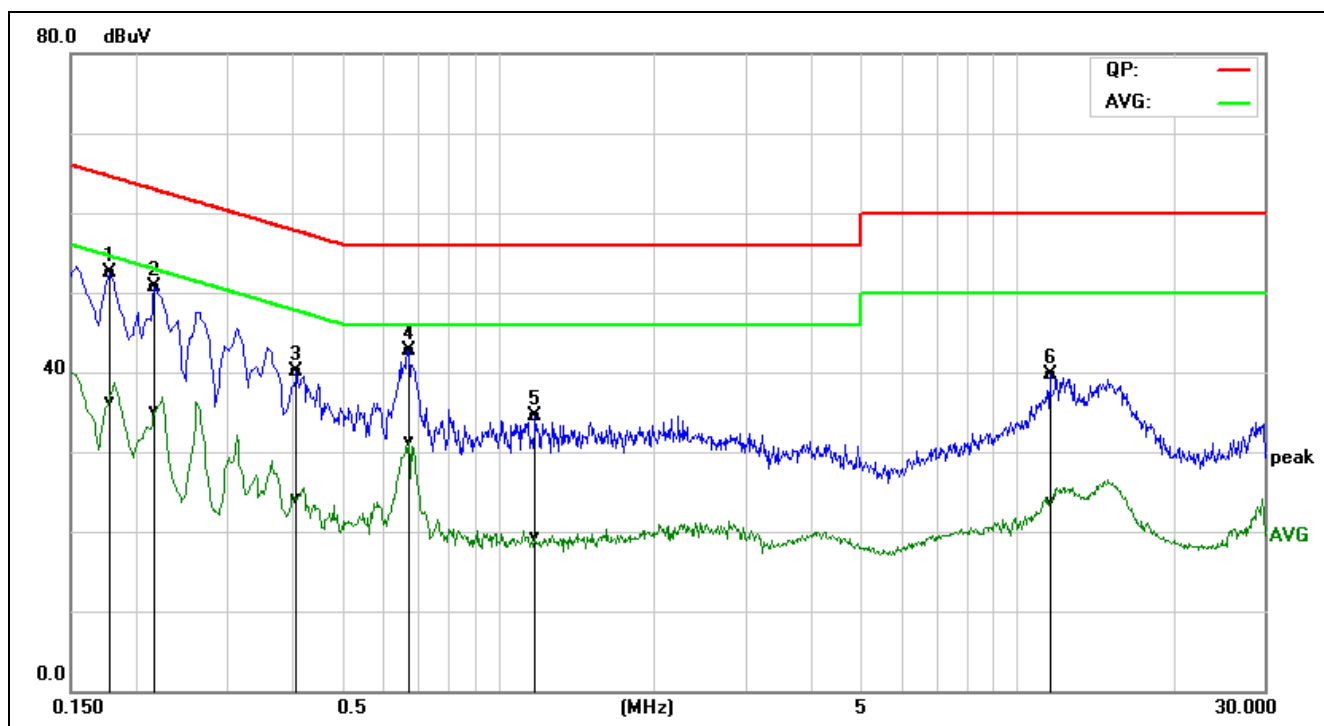


Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1819	30.92	12.17	19.53	50.45	31.70	64.39	54.40	-13.94	-22.70	Pass	L2
0.3100	25.09	7.33	19.54	44.63	26.87	59.97	49.97	-15.34	-23.10	Pass	L2
0.6900	19.50	10.03	19.61	39.11	29.64	56.00	46.00	-16.89	-16.36	Pass	L2
1.4540	13.19	0.42	19.63	32.82	20.05	56.00	46.00	-23.18	-25.95	Pass	L2
3.2260	15.04	1.12	19.76	34.80	20.88	56.00	46.00	-21.20	-25.12	Pass	L2
12.1780	16.81	2.72	20.09	36.90	22.81	60.00	50.00	-23.10	-27.19	Pass	L2

REMARKS: N = Line Two (Neutral Line)



Model No.	NC1000	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 2
Tested by	Sam Zeng	Line	L
Test Date	May 21, 2018	Test Voltage	AC240V/50Hz

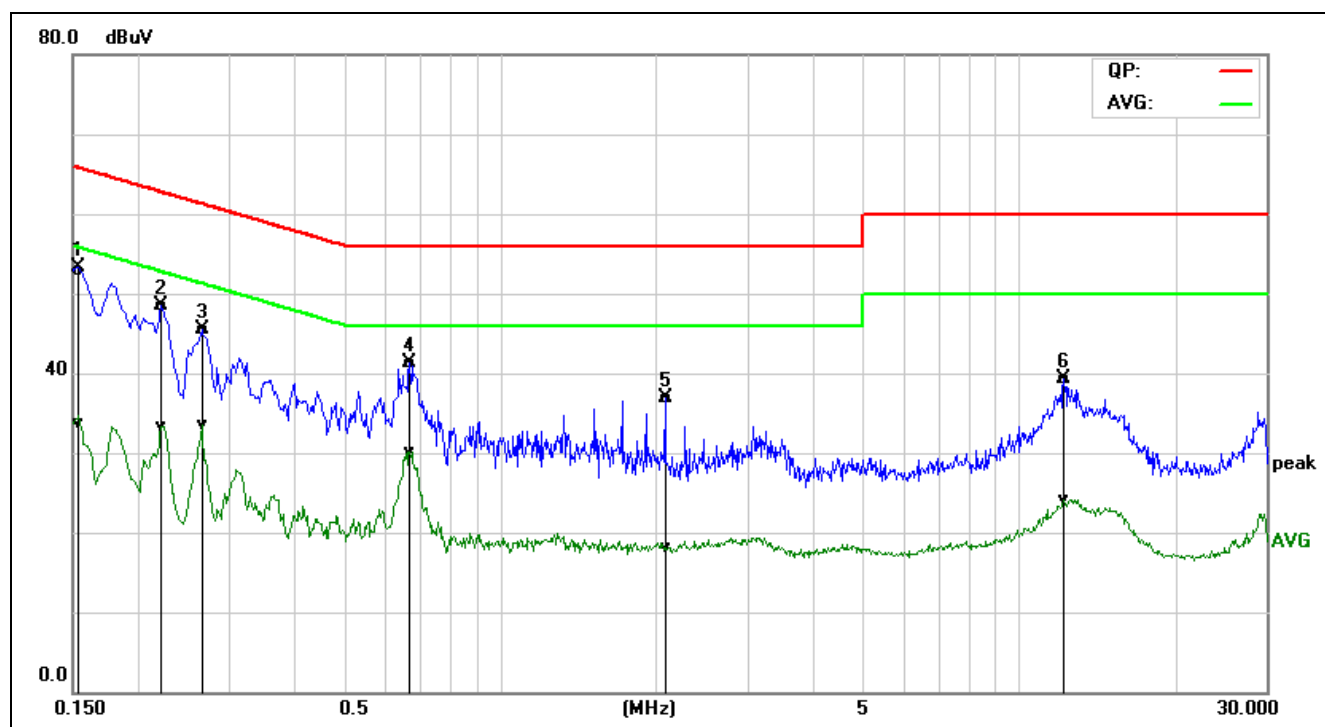


Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1780	32.96	16.75	19.63	52.59	36.38	64.57	54.58	-11.98	-18.20	Pass	L1
0.2180	31.01	15.47	19.63	50.64	35.10	62.89	52.89	-12.25	-17.79	Pass	L1
0.4100	20.64	4.48	19.56	40.20	24.04	57.65	47.65	-17.45	-23.61	Pass	L1
0.6740	23.12	11.76	19.60	42.72	31.36	56.00	46.00	-13.28	-14.64	Pass	L1
1.1820	14.89	-0.37	19.58	34.47	19.21	56.00	46.00	-21.53	-26.79	Pass	L1
11.6059	19.63	3.67	20.10	39.73	23.77	60.00	50.00	-20.27	-26.23	Pass	L1

REMARKS: L= Line One (Live Line)



Model No.	NC1000	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 2
Tested by	Sam Zeng	Line	N
Test Date	May 21, 2018	Test Voltage	AC240V/50Hz



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1556	33.48	14.22	19.52	53.00	33.74	65.69	55.70	-12.69	-21.96	Pass	L2
0.2220	28.89	13.84	19.54	48.43	33.38	62.74	52.74	-14.31	-19.36	Pass	L2
0.2660	26.00	13.94	19.54	45.54	33.48	61.24	51.24	-15.70	-17.76	Pass	L2
0.6700	21.77	10.48	19.60	41.37	30.08	56.00	46.00	-14.63	-15.92	Pass	L2
2.0820	17.18	-1.54	19.72	36.90	18.18	56.00	46.00	-19.10	-27.82	Pass	L2
12.2340	19.14	4.08	20.08	39.22	24.16	60.00	50.00	-20.78	-25.84	Pass	L2

REMARKS: N= Line Two (Neutral Line)



6.10 FREQUENCY STABILITY

6.10.1 LIMIT

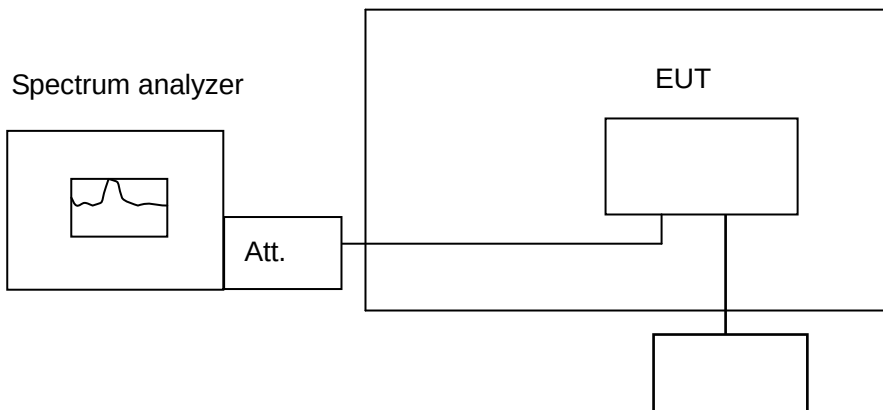
According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

6.10.2 TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019
DC Power Supply	DAZHENG	PS-605D	20018978	N.C.R	N.C.R
AC POWER SOURCE	UMART	HPA1010	N/A	N.C.R	N.C.R
Power Meter	Anritsu	ML2495A	1204003	01/27/2018	01/26/2019
Power Sensor	Anritsu	MA2411B	1126150	01/27/2018	01/26/2019
Temperature Chamber	TERCHY	MHG-800N	E21104	11/18/2017	11/17/2018
Temp. / Humidity Meter	Anymetre	JR913	N/A	01/29/2018	01/28/2019

6.10.3 TEST CONFIGURATION

Temperature Chamber



Variable Power Supply

Remark: Measurement setup for testing on Antenna connector



6.10.4 TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

6.10.5 TEST RESULTS

No non-compliance noted.

**Test Data****IEEE 802.11a MHz mode / 5180 ~ 5240MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.974628	5150-5250	PASS
40	120	5179.968713	5150-5250	PASS
30	120	5179.973443	5150-5250	PASS
20	120	5179.935500	5150-5250	PASS
10	120	5179.967697	5150-5250	PASS
0	120	5179.987755	5150-5250	PASS
-10	120	5179.993706	5150-5250	PASS
-20	120	5179.993270	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.956930	5150-5250	PASS
	120	5179.965790	5150-5250	PASS
	132	5179.968583	5150-5250	PASS

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.967137	5150-5250	PASS
40	120	5239.973899	5150-5250	PASS
30	120	5239.969744	5150-5250	PASS
20	120	5239.934600	5150-5250	PASS
10	120	5239.950293	5150-5250	PASS
0	120	5239.951593	5150-5250	PASS
-10	120	5239.954757	5150-5250	PASS
-20	120	5239.966743	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.965539	5150-5250	PASS
	120	5239.965891	5150-5250	PASS
	132	5239.964561	5150-5250	PASS

**IEEE 802.11a mode / 5745 ~ 5825MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.989845	5725-5850	PASS
40	120	5744.975224	5725-5850	PASS
30	120	5744.996434	5725-5850	PASS
20	120	5744.924200	5725-5850	PASS
10	120	5744.968130	5725-5850	PASS
0	120	5744.986321	5725-5850	PASS
-10	120	5744.959322	5725-5850	PASS
-20	120	5744.996024	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.960303	5725-5850	PASS
	120	5744.965588	5725-5850	PASS
	132	5744.973007	5725-5850	PASS

IEEE 802.11a mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.988952	5725-5850	PASS
40	120	5824.970375	5725-5850	PASS
30	120	5824.954016	5725-5850	PASS
20	120	5824.922800	5725-5850	PASS
10	120	5824.979849	5725-5850	PASS
0	120	5824.995319	5725-5850	PASS
-10	120	5824.972082	5725-5850	PASS
-20	120	5824.987597	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.970871	5725-5850	PASS
	120	5824.897666	5725-5850	PASS
	132	5824.989948	5725-5850	PASS

**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.964511	5150-5250	PASS
40	120	5179.952646	5150-5250	PASS
30	120	5179.976915	5150-5250	PASS
20	120	5179.955470	5150-5250	PASS
10	120	5179.973801	5150-5250	PASS
0	120	5179.962988	5150-5250	PASS
-10	120	5179.949055	5150-5250	PASS
-20	120	5179.989763	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.963190	5150-5250	PASS
	120	5179.965254	5150-5250	PASS
	132	5179.990118	5150-5250	PASS

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.960882	5150-5250	PASS
40	120	5239.952255	5150-5250	PASS
30	120	5239.992725	5150-5250	PASS
20	120	5239.949600	5150-5250	PASS
10	120	5239.999583	5150-5250	PASS
0	120	5239.990995	5150-5250	PASS
-10	120	5239.985886	5150-5250	PASS
-20	120	5239.953122	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.973891	5150-5250	PASS
	120	5239.965339	5150-5250	PASS
	132	5239.966096	5150-5250	PASS

**IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.960461	5725-5850	PASS
40	120	5744.951001	5725-5850	PASS
30	120	5744.957276	5725-5850	PASS
20	120	5744.932740	5725-5850	PASS
10	120	5744.980090	5725-5850	PASS
0	120	5744.954154	5725-5850	PASS
-10	120	5744.970144	5725-5850	PASS
-20	120	5744.953125	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.980655	5725-5850	PASS
	120	5744.965556	5725-5850	PASS
	132	5744.950991	5725-5850	PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.953927	5725-5850	PASS
40	120	5824.957996	5725-5850	PASS
30	120	5824.960152	5725-5850	PASS
20	120	5824.930980	5725-5850	PASS
10	120	5824.999750	5725-5850	PASS
0	120	5824.985508	5725-5850	PASS
-10	120	5824.982034	5725-5850	PASS
-20	120	5824.959319	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.951602	5725-5850	PASS
	120	5824.965160	5725-5850	PASS
	132	5824.964970	5725-5850	PASS

**IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5189.989074	5150-5250	PASS
40	120	5189.976808	5150-5250	PASS
30	120	5189.972372	5150-5250	PASS
20	120	5189.938280	5150-5250	PASS
10	120	5189.966623	5150-5250	PASS
0	120	5189.984999	5150-5250	PASS
-10	120	5189.981089	5150-5250	PASS
-20	120	5189.995824	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.982259	5150-5250	PASS
	120	5189.965631	5150-5250	PASS
	132	5189.980795	5150-5250	PASS

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5229.992100	5150-5250	PASS
40	120	5229.966511	5150-5250	PASS
30	120	5229.990207	5150-5250	PASS
20	120	5229.937770	5150-5250	PASS
10	120	5229.989856	5150-5250	PASS
0	120	5229.978647	5150-5250	PASS
-10	120	5229.958922	5150-5250	PASS
-20	120	5229.955996	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.961494	5150-5250	PASS
	120	5229.965750	5150-5250	PASS
	132	5229.995063	5150-5250	PASS

**IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.958694	5725-5850	PASS
40	120	5754.993336	5725-5850	PASS
30	120	5754.982061	5725-5850	PASS
20	120	5754.931740	5725-5850	PASS
10	120	5754.961211	5725-5850	PASS
0	120	5754.957491	5725-5850	PASS
-10	120	5754.978634	5725-5850	PASS
-20	120	5754.974871	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.963694	5725-5850	PASS
	120	5754.965456	5725-5850	PASS
	132	5754.977929	5725-5850	PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5794.985657	5725-5850	PASS
40	120	5794.964745	5725-5850	PASS
30	120	5794.989473	5725-5850	PASS
20	120	5794.932240	5725-5850	PASS
10	120	5794.954251	5725-5850	PASS
0	120	5794.973666	5725-5850	PASS
-10	120	5794.981952	5725-5850	PASS
-20	120	5794.968153	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.995578	5725-5850	PASS
	120	5794.965889	5725-5850	PASS
	132	5794.999077	5725-5850	PASS

**IEEE 802.11ac 80 mode / 5210MHz**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5209.967146	5150-5250	PASS
40	120	5209.972953	5150-5250	PASS
30	120	5209.982071	5150-5250	PASS
20	120	5209.938530	5150-5250	PASS
10	120	5209.950545	5150-5250	PASS
0	120	5209.963245	5150-5250	PASS
-10	120	5209.991632	5150-5250	PASS
-20	120	5209.959206	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5209.975353	5150-5250	PASS
	120	5209.965689	5150-5250	PASS
	132	5209.974714	5150-5250	PASS

IEEE 802.11ac 80 mode / 5775MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5774.956307	5725-5850	PASS
40	120	5774.989316	5725-5850	PASS
30	120	5774.952684	5725-5850	PASS
20	120	5774.933980	5725-5850	PASS
10	120	5774.961831	5725-5850	PASS
0	120	5774.978933	5725-5850	PASS
-10	120	5774.974492	5725-5850	PASS
-20	120	5774.974167	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5774.950669	5725-5850	PASS
	120	5774.966358	5725-5850	PASS
	132	5774.995446	5725-5850	PASS