FCC Test Report

FCC ID	:	**QVHDBWIFIBLE04**
Equipment	:	**802.11 abgn + BLE 5.0 module**
Model No.	:	**DBWIFIBLE04**
Brand Name	:	**Dyson**
Applicant	:	**Dyson Technology Ltd**
Address	:	**Tetbury Hill Malmesbury Wiltshire SN16 0RP United Kingdom**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Feb. 12, 2022**
Tested Date	:	**Feb. 15 ~ Mar. 01, 2022**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:	**Approved by:**
Along Chen / Assistant Manager	**Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
FR212701AN	Rev. 01	Initial issue	May 06, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.168MHz 49.86 (Margin -15.22dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 10600.00MHz 50.99 (Margin -3.01dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 18.42 5250~5350MHz: 19.75 5470~5725MHz: 19.00 5725~5850MHz: 19.47	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-7
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-7
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.					

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Dyson	ANT2_1370X950	PIFA	No	2.12	2.59	2.62	2.79	3.44

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20		HT40	
Channel	**Frequency(MHz)**	**Channel**	**Frequency(MHz)**
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	---	---
120	5600	---	---
124	5620	---	---
128	5640	---	---
132	5660	---	---
136	5680	---	---
140	5700	---	---
144	5720	---	---
149	5745		
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	AmebaD_mptool, Version: 2V2		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	95.39%	0.20
	HT20	94.35%	0.25
	HT40	89.19%	0.50

1.1.7 Power Index of Test Tool

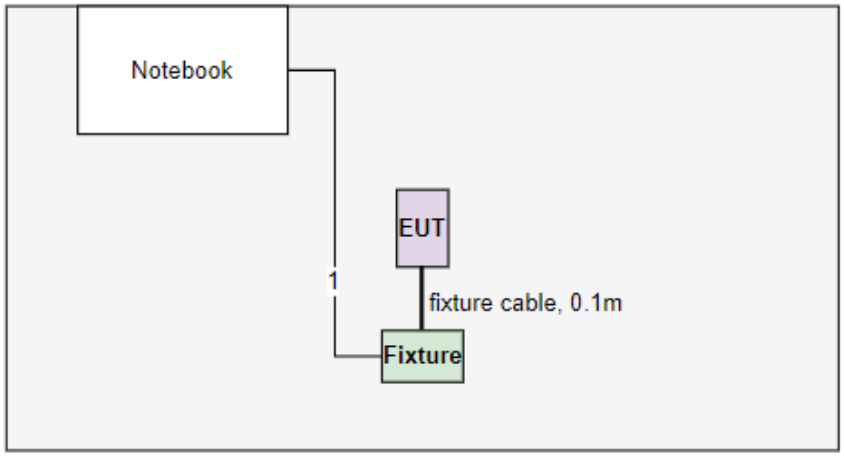
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	123
11a	5200	127
11a	5240	126
11a	5260	123
11a	5300	110
11a	5320	117
11a	5500	106
11a	5580	116
11a	5700	107
11a	5720	127
11a	5745	127
11a	5785	118
11a	5825	121
HT20	5180	121
HT20	5200	127
HT20	5240	127
HT20	5260	124
HT20	5300	112
HT20	5320	113
HT20	5500	106
HT20	5580	117
HT20	5700	106
HT20	5720	127
HT20	5745	127
HT20	5785	118
HT20	5825	121

Modulation Mode	Test Frequency (MHz)	Power Index
HT40	5190	104
HT40	5230	127
HT40	5270	126
HT40	5310	103
HT40	5510	94
HT40	5550	113
HT40	5670	113
HT40	5710	127
HT40	5755	127
HT40	5795	127

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	DoC	---
2	Fixture	WNC	48DHSK07.SGA	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram


No.	Signal cable / Length (m)
1	USB, 1m shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Feb. 28, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Feb. 15 ~ Feb. 23, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101499	Mar. 02, 2021	Mar. 01, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	May 06, 2021	May 05, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-300 0	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-130 00	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-80 00	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 01, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15247_DTS	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.96 dB
Radiated emission > 1GHz	±4.51 dB
Time	±0.1%
Temperature	±0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
Test Site	03CH03-WS
Address of Test Site	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
Conducted Emissions	HT40	5270	MCS 0	-
Radiated Emissions ≤1GHz	HT40	5270	MCS 0	-
RF Output Power Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	-
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
Frequency Stability	Un-modulation	5320	---	---
Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
Conducted Emissions	HT40	5755	MCS 0	-
Radiated Emissions ≤1GHz	HT40	5755	MCS 0	-
RF Output Power Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	-
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
Frequency Stability	Un-modulation	5785	---	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.

3 Transmitter Test Results

3.1 Conducted Emissions

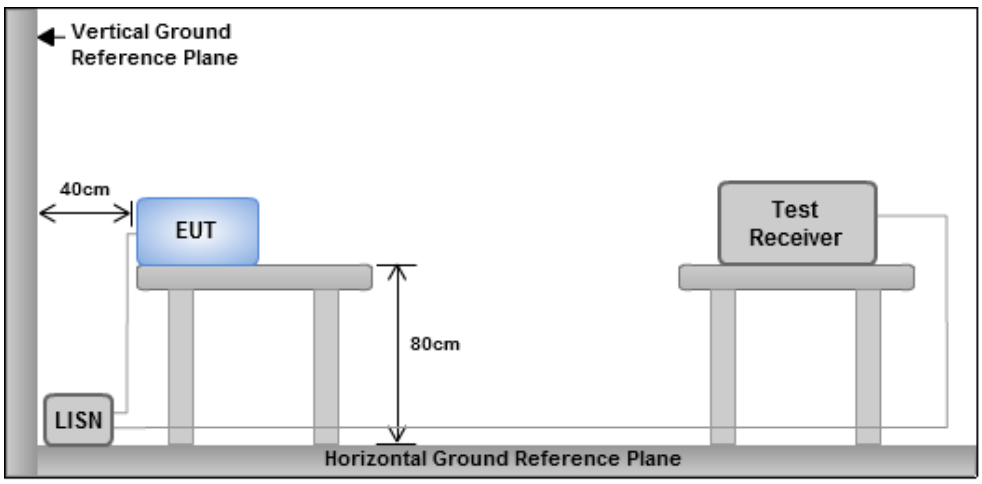
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.1.3 Test Setup



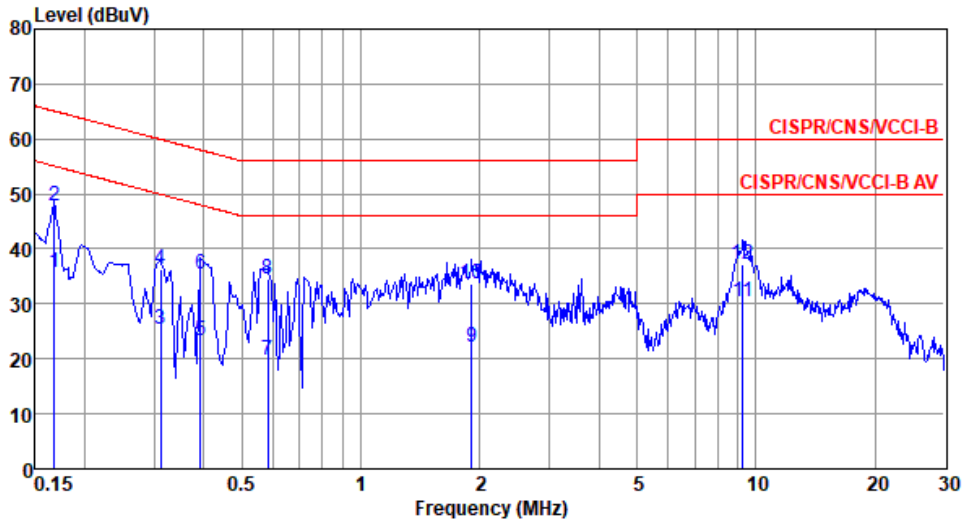
Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation	HT40	Test Freq. (MHz)	5270
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 59%

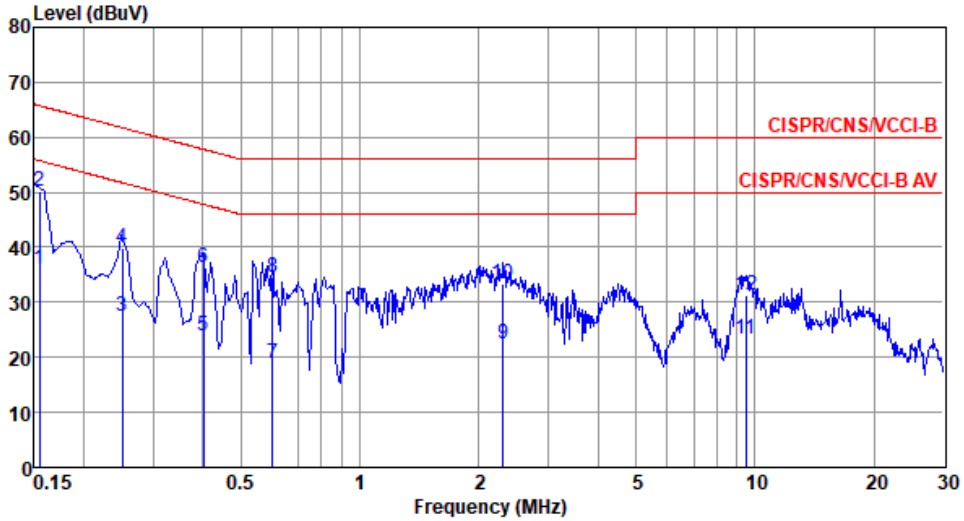


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.168	35.74	55.08	-19.34	26.00	9.66	0.08	0.00	Average
2*	0.168	47.81	65.08	-17.27	38.07	9.66	0.08	0.00	QP
3	0.312	25.37	49.93	-24.56	15.65	9.64	0.08	0.00	Average
4	0.312	36.30	59.93	-23.63	26.58	9.64	0.08	0.00	QP
5	0.393	23.29	47.99	-24.70	13.57	9.64	0.08	0.00	Average
6	0.393	35.56	57.99	-22.43	25.84	9.64	0.08	0.00	QP
7	0.582	19.88	46.00	-26.12	10.13	9.64	0.11	0.00	Average
8	0.582	34.68	56.00	-21.32	24.93	9.64	0.11	0.00	QP
9	1.908	22.07	46.00	-23.93	12.21	9.66	0.20	0.00	Average
10	1.908	33.62	56.00	-22.38	23.76	9.66	0.20	0.00	QP
11	9.253	30.35	50.00	-19.65	20.21	9.71	0.43	0.00	Average
12	9.253	37.23	60.00	-22.77	27.09	9.71	0.43	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	HT40	Test Freq. (MHz)	5270
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 59%

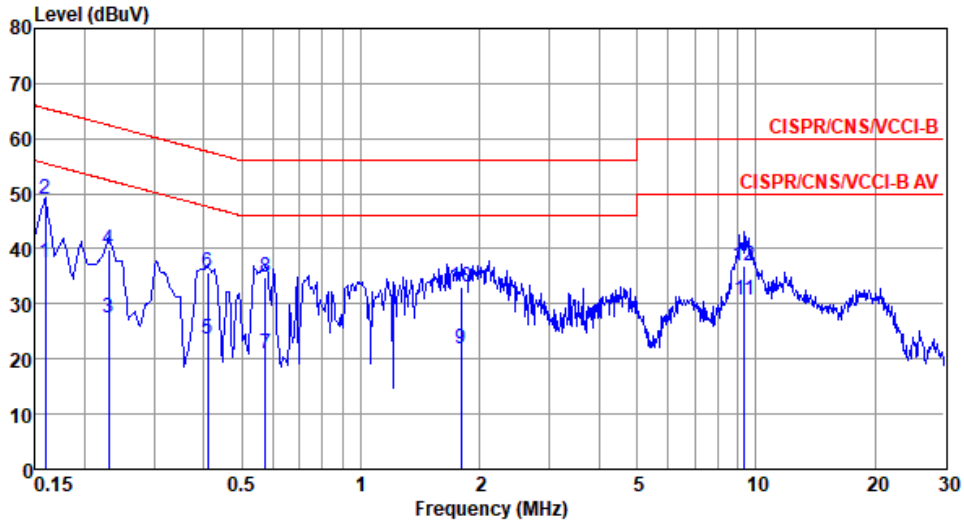


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.155	35.98	55.74	-19.76	26.21	9.69	0.08	0.00	Average
2*	0.155	50.06	65.74	-15.68	40.29	9.69	0.08	0.00	QP
3	0.251	27.50	51.73	-24.23	17.74	9.68	0.08	0.00	Average
4	0.251	39.98	61.73	-21.75	30.22	9.68	0.08	0.00	QP
5	0.402	23.84	47.81	-23.97	14.09	9.67	0.08	0.00	Average
6	0.402	36.38	57.81	-21.43	26.63	9.67	0.08	0.00	QP
7	0.601	18.82	46.00	-27.18	9.03	9.67	0.12	0.00	Average
8	0.601	34.60	56.00	-21.40	24.81	9.67	0.12	0.00	QP
9	2.309	22.54	46.00	-23.46	12.65	9.69	0.20	0.00	Average
10	2.309	33.21	56.00	-22.79	23.32	9.69	0.20	0.00	QP
11	9.502	23.28	50.00	-26.72	13.08	9.76	0.44	0.00	Average
12	9.502	31.39	60.00	-28.61	21.19	9.76	0.44	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	HT40	Test Freq. (MHz)	5755
Power Phase	Line		

Test by : Joe Liao Temperature: 19°C Humidity: 59%

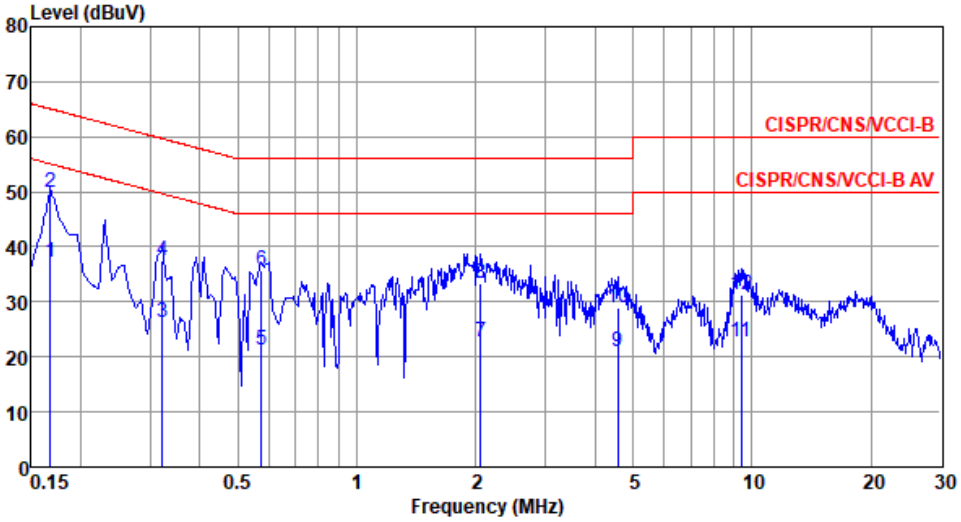


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.159	37.37	55.52	-18.15	27.63	9.66	0.08	0.00	Average
2*	0.159	49.14	65.52	-16.38	39.40	9.66	0.08	0.00	QP
3	0.230	27.42	52.44	-25.02	17.69	9.65	0.08	0.00	Average
4	0.230	39.81	62.44	-22.63	30.08	9.65	0.08	0.00	QP
5	0.410	23.59	47.64	-24.05	13.87	9.64	0.08	0.00	Average
6	0.410	35.82	57.64	-21.82	26.10	9.64	0.08	0.00	QP
7	0.573	21.08	46.00	-24.92	11.33	9.64	0.11	0.00	Average
8	0.573	34.92	56.00	-21.08	25.17	9.64	0.11	0.00	QP
9	1.790	21.70	46.00	-24.30	11.85	9.66	0.19	0.00	Average
10	1.790	33.09	56.00	-22.91	23.24	9.66	0.19	0.00	QP
11	9.352	30.79	50.00	-19.21	20.65	9.71	0.43	0.00	Average
12	9.352	37.04	60.00	-22.96	26.90	9.71	0.43	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	HT40	Test Freq. (MHz)	5755
Power Phase	Neutral		

Test by : Joe Liao Temperature: 19°C Humidity: 59%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.168	37.30	55.08	-17.78	27.53	9.69	0.08	0.00	Average
2*	0.168	49.86	65.08	-15.22	40.09	9.69	0.08	0.00	QP
3	0.322	26.14	49.66	-23.52	16.39	9.67	0.08	0.00	Average
4	0.322	37.41	59.66	-22.25	27.66	9.67	0.08	0.00	QP
5	0.573	21.36	46.00	-24.64	11.58	9.67	0.11	0.00	Average
6	0.573	35.62	56.00	-20.38	25.84	9.67	0.11	0.00	QP
7	2.055	22.74	46.00	-23.26	12.85	9.69	0.20	0.00	Average
8	2.055	33.49	56.00	-22.51	23.60	9.69	0.20	0.00	QP
9	4.574	20.98	46.00	-25.02	11.03	9.71	0.24	0.00	Average
10	4.574	28.83	56.00	-27.17	18.88	9.71	0.24	0.00	QP
11	9.401	22.72	50.00	-27.28	12.53	9.76	0.43	0.00	Average
12	9.401	31.42	60.00	-28.58	21.23	9.76	0.43	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

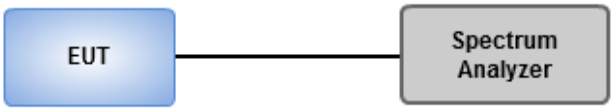
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW ≥ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak,Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Ambient Condition	24°C / 67%	Tested By	Aska Huang

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	33.043M	16.86M	16M9D1D	29.493M	16.715M
802.11n HT20_Nss1,(MCS0)_1TX	31.739M	17.873M	17M9D1D	27.174M	17.8M
802.11n HT40_Nss1,(MCS0)_1TX	60.58M	36.035M	36M0D1D	38.696M	35.89M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	36.377M	16.86M	16M9D1D	21.522M	16.643M
802.11n HT20_Nss1,(MCS0)_1TX	40.362M	18.017M	18M0D1D	23.551M	17.656M
802.11n HT40_Nss1,(MCS0)_1TX	78.841M	36.324M	36M3D1D	38.696M	35.89M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	34.783M	16.643M	16M6D1D	21.377M	13.806M
802.11n HT20_Nss1,(MCS0)_1TX	38.333M	17.945M	17M9D1D	21.449M	14.067M
802.11n HT40_Nss1,(MCS0)_1TX	56.232M	36.035M	36M0D1D	38.696M	33.126M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.304M	17.656M	17M7D1D	3.188M	9.957M
802.11n HT20_Nss1,(MCS0)_1TX	17.609M	18.524M	18M5D1D	3.768M	10.014M
802.11n HT40_Nss1,(MCS0)_1TX	35.217M	36.614M	36M6D1D	3.13M	22.923M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Minimum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

Result

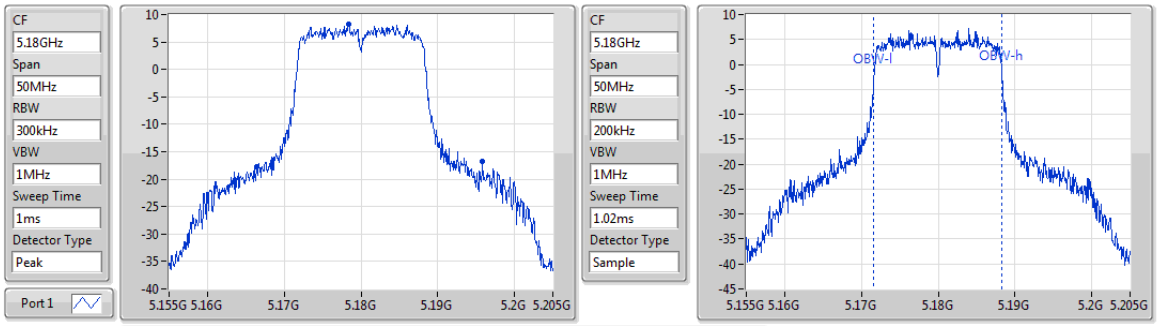
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	29.493M	16.715M
5200MHz	Pass	Inf	30.507M	16.86M
5240MHz	Pass	Inf	33.043M	16.787M
5260MHz	Pass	Inf	36.377M	16.86M
5300MHz	Pass	Inf	21.522M	16.643M
5320MHz	Pass	Inf	31.159M	16.715M
5500MHz	Pass	Inf	21.377M	16.57M
5580MHz	Pass	Inf	34.783M	16.643M
5700MHz	Pass	Inf	21.377M	16.57M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.783M	13.806M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.188M	9.957M
5745MHz	Pass	500k	16.304M	17.656M
5785MHz	Pass	500k	16.159M	16.643M
5825MHz	Pass	500k	16.304M	16.787M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	27.174M	17.8M
5200MHz	Pass	Inf	31.739M	17.873M
5240MHz	Pass	Inf	29.275M	17.8M
5260MHz	Pass	Inf	40.362M	18.017M
5300MHz	Pass	Inf	23.551M	17.656M
5320MHz	Pass	Inf	25.87M	17.728M
5500MHz	Pass	Inf	22.681M	17.8M
5580MHz	Pass	Inf	38.333M	17.945M
5700MHz	Pass	Inf	21.449M	17.656M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.174M	14.067M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.768M	10.014M
5745MHz	Pass	500k	17.029M	18.524M
5785MHz	Pass	500k	17.609M	17.728M
5825MHz	Pass	500k	17.319M	17.8M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	38.696M	35.89M
5230MHz	Pass	Inf	60.58M	36.035M
5270MHz	Pass	Inf	78.841M	36.324M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5310MHz	Pass	Inf	38.696M	35.89M
5510MHz	Pass	Inf	38.696M	35.89M
5590MHz	Pass	Inf	56.232M	36.035M
5670MHz	Pass	Inf	43.333M	35.89M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	52.957M	33.126M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.13M	22.923M
5755MHz	Pass	500k	35.072M	36.614M
5795MHz	Pass	500k	35.217M	36.179M

Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX **EBW**

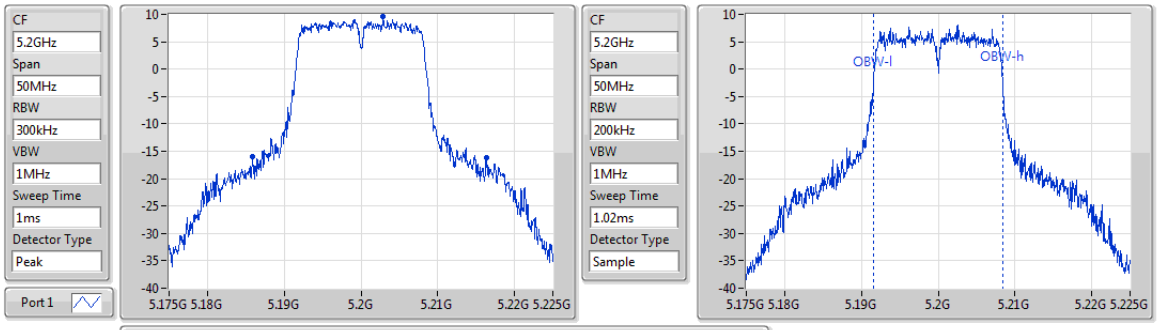
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.493M	5.166377G	5.19587G	16.715M	5.171606G	5.188321G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

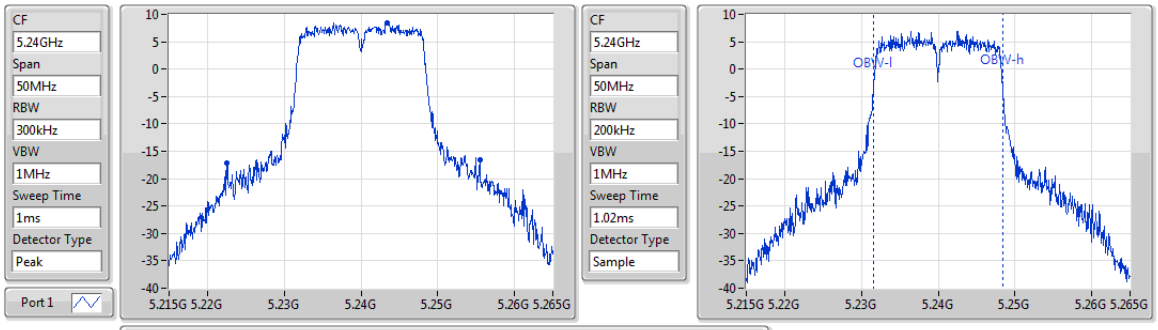
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.507M	5.185797G	5.216304G	16.86M	5.191534G	5.208394G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

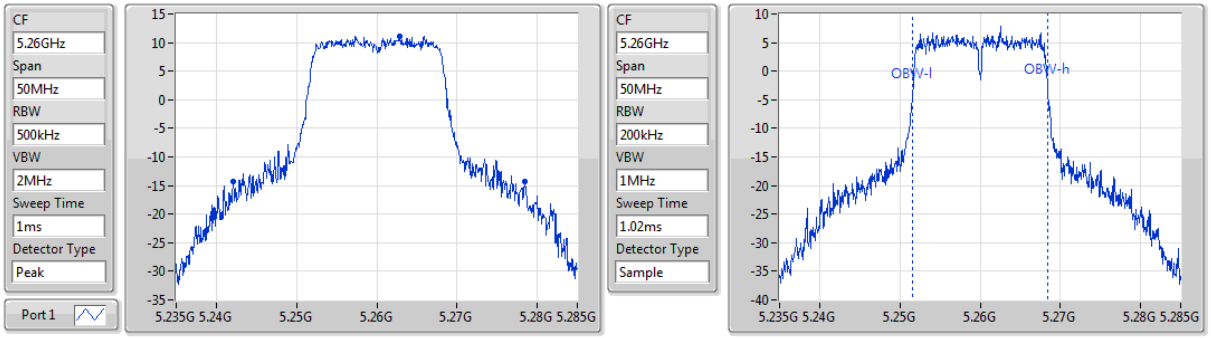
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.043M	5.222464G	5.255507G	16.787M	5.231606G	5.248394G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

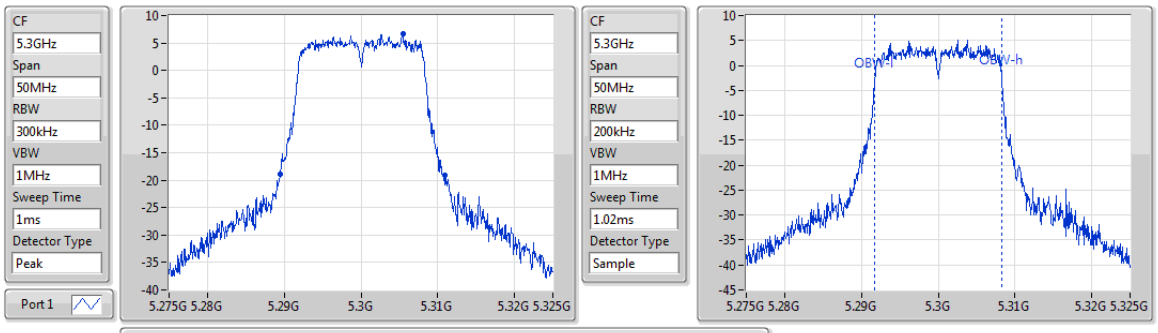
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.377M	5.242101G	5.278478G	16.86M	5.251606G	5.268466G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

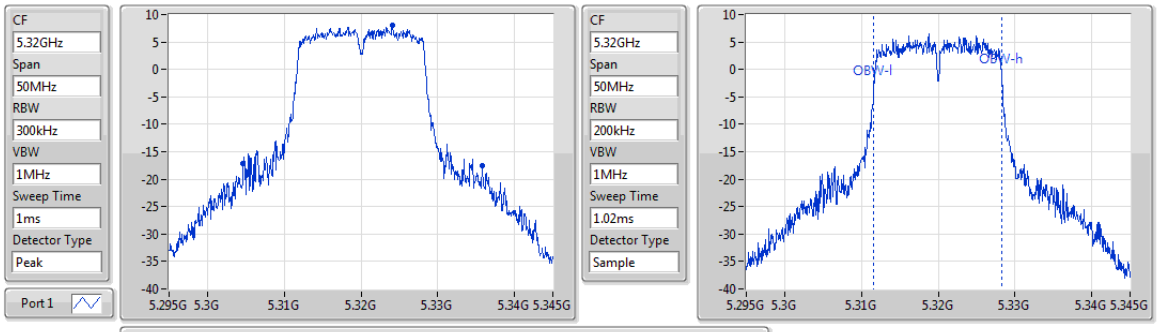
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.522M	5.28942G	5.310942G	16.643M	5.291679G	5.308321G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

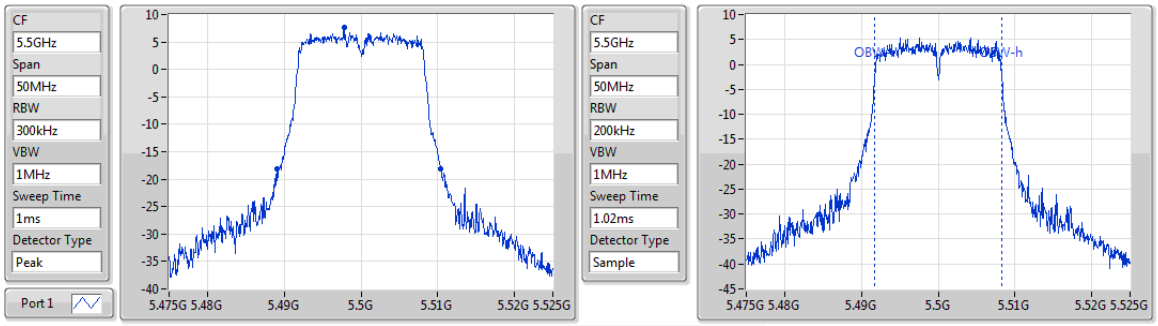
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.159M	5.304638G	5.335797G	16.715M	5.311606G	5.328321G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

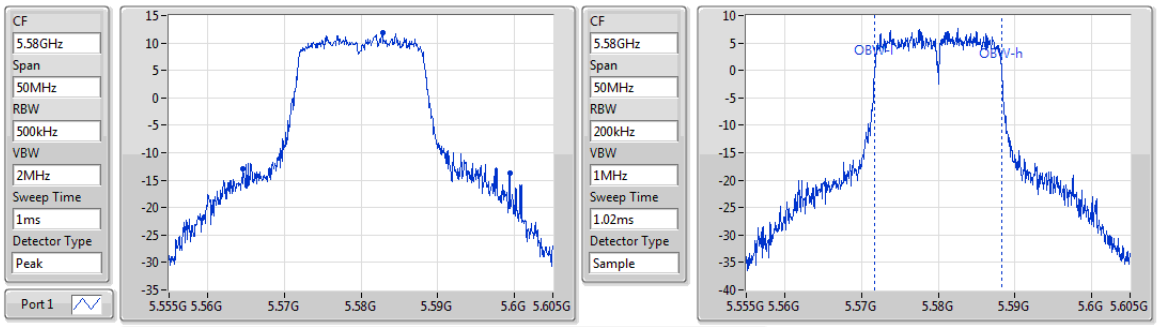
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.377M	5.489058G	5.510435G	16.57M	5.491751G	5.508321G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

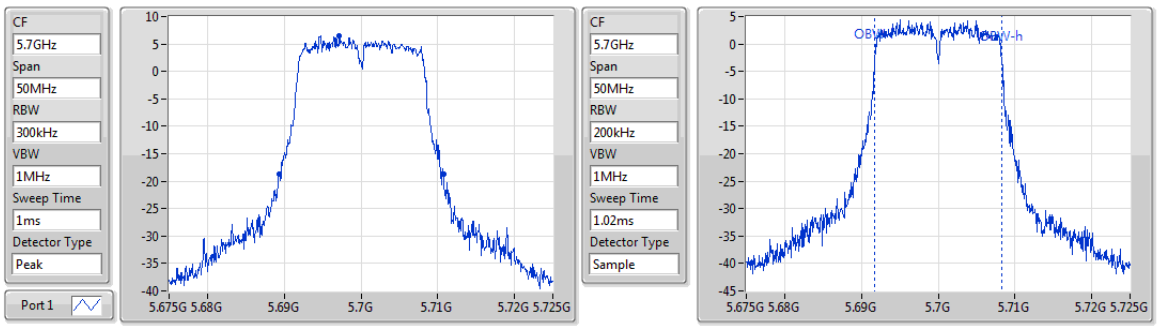
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.783M	5.564638G	5.59942G	16.643M	5.571679G	5.588321G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

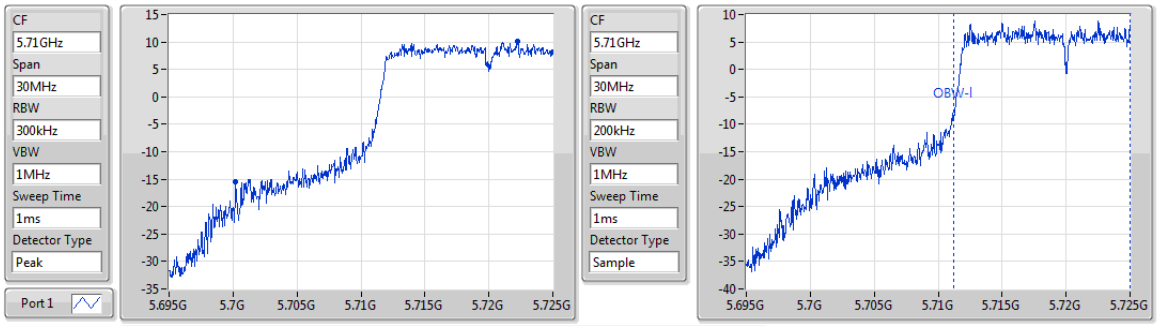
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.377M	5.689348G	5.710725G	16.57M	5.691751G	5.708321G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

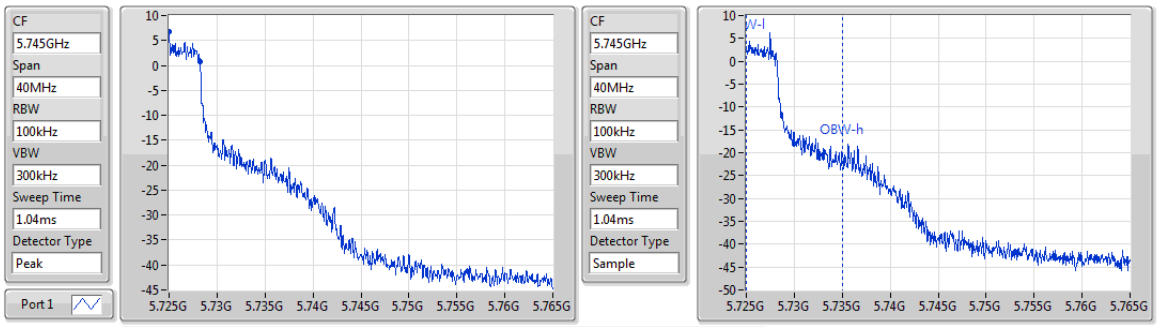
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.783M	5.700217G	5.725G	13.806M	5.711172G	5.724978G	Inf	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

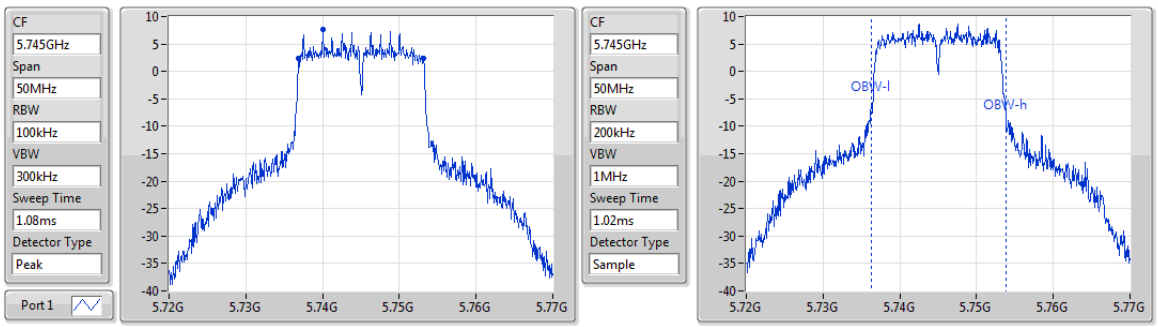
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.188M	5.725G	5.728188G	9.957M	5.725029G	5.734986G	500k	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

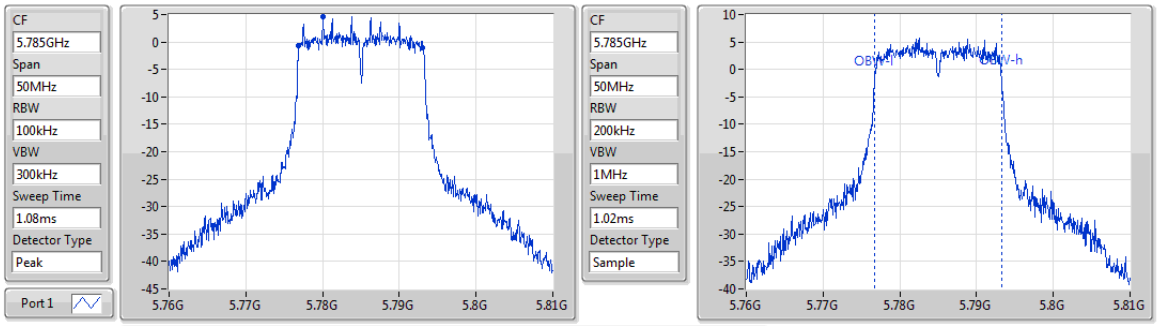
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	5.736884G	5.753188G	17.656M	5.736245G	5.7539G	500k	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

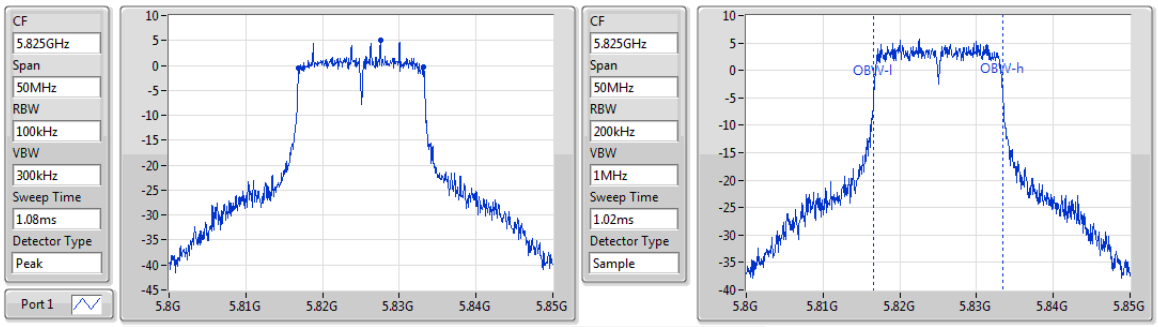
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.159M	5.776884G	5.793043G	16.643M	5.776679G	5.793321G	500k	1

802.11a_Nss1,(6Mbps)_1TX **EBW**

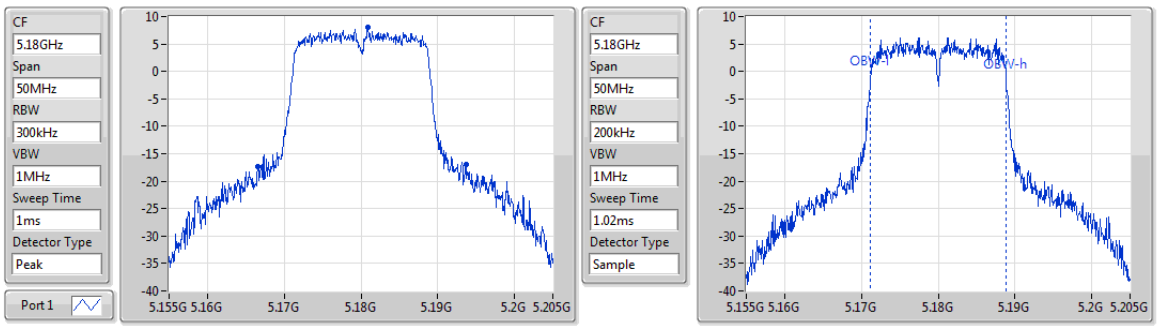
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	5.816884G	5.833188G	16.787M	5.816606G	5.833394G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

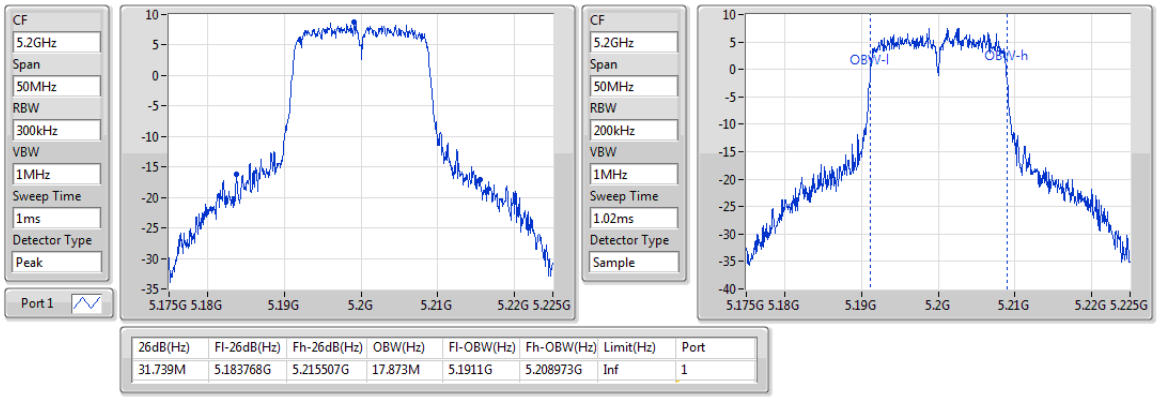
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.174M	5.166522G	5.193696G	17.8M	5.1711G	5.1889G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

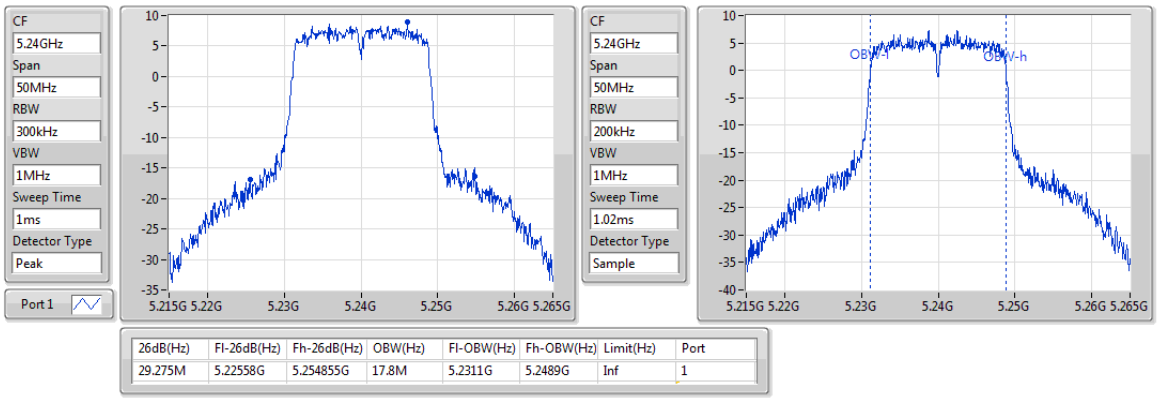
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.739M	5.183768G	5.215507G	17.873M	5.1911G	5.208973G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

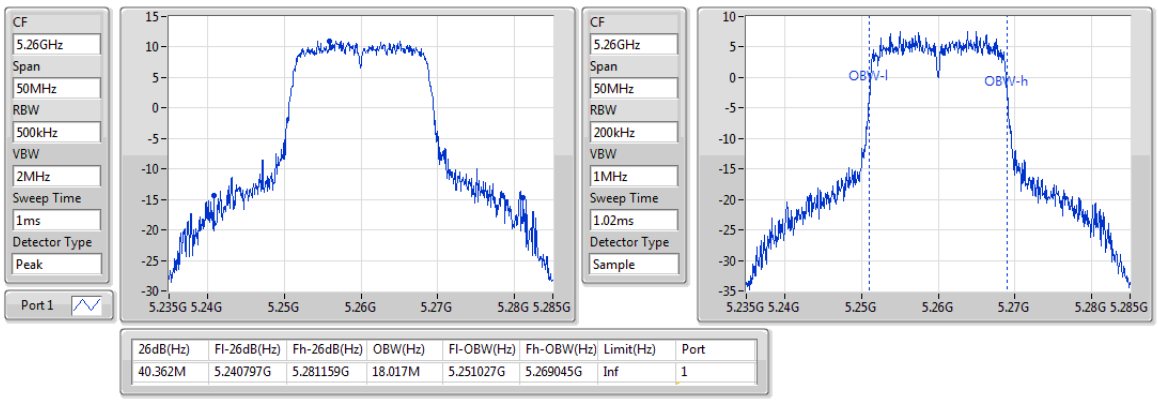
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.275M	5.22558G	5.254855G	17.8M	5.2311G	5.2489G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

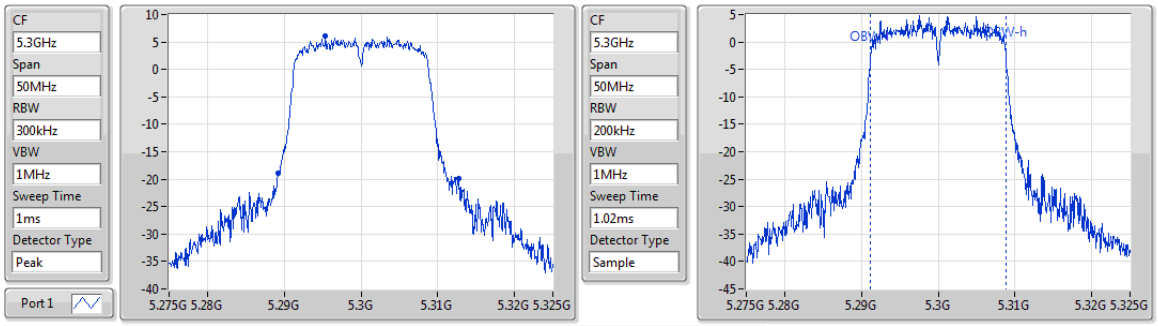
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.362M	5.240797G	5.281159G	18.017M	5.251027G	5.269045G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

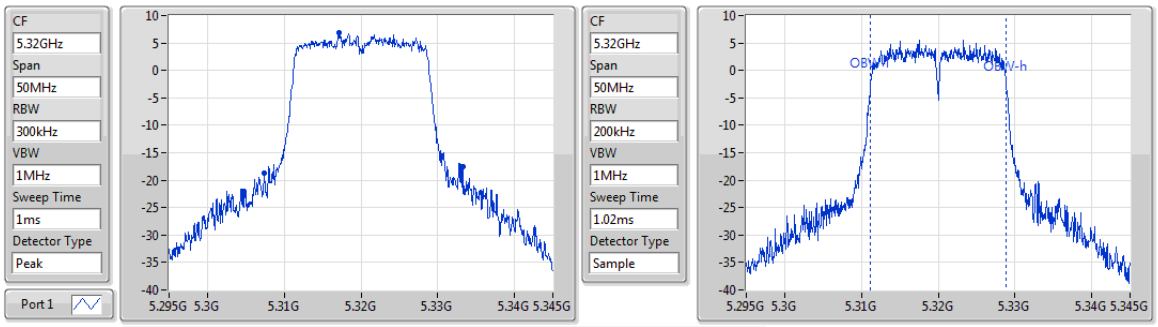
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.551M	5.289203G	5.312754G	17.656M	5.291172G	5.308828G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

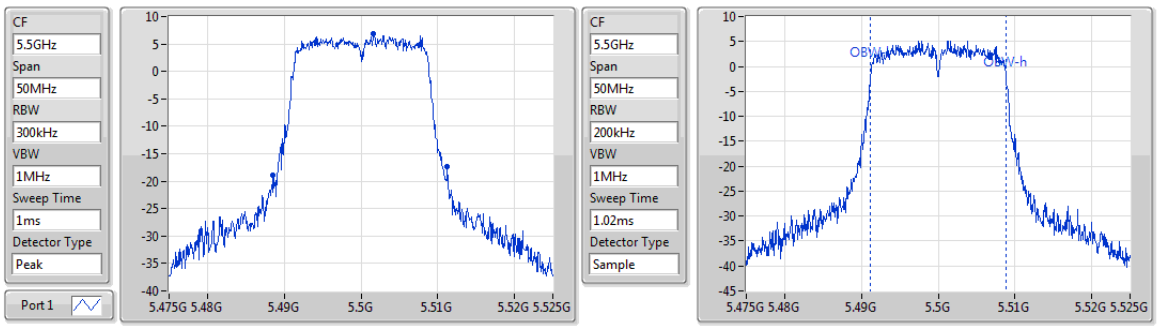
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.87M	5.307391G	5.333261G	17.728M	5.311172G	5.3289G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

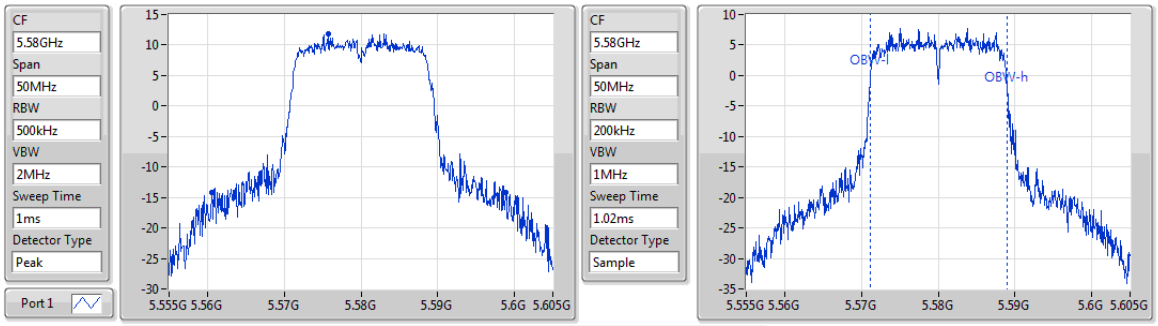
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.681M	5.488551G	5.511232G	17.8M	5.4911G	5.5089G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

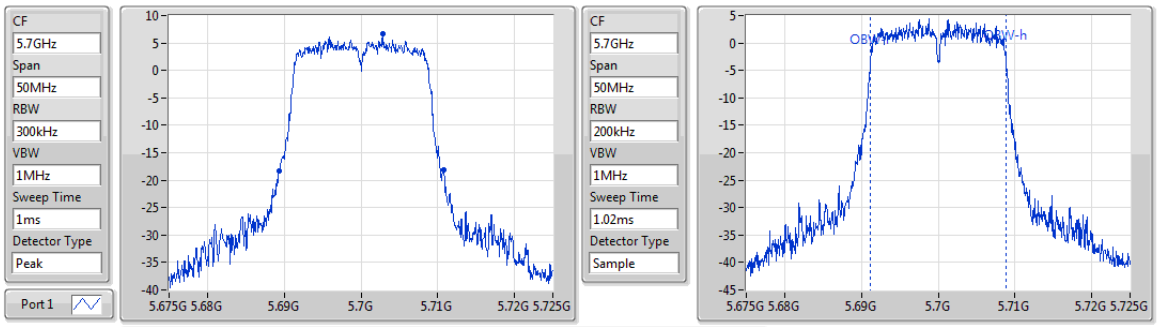
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.333M	5.560507G	5.598841G	17.945M	5.5711G	5.589045G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

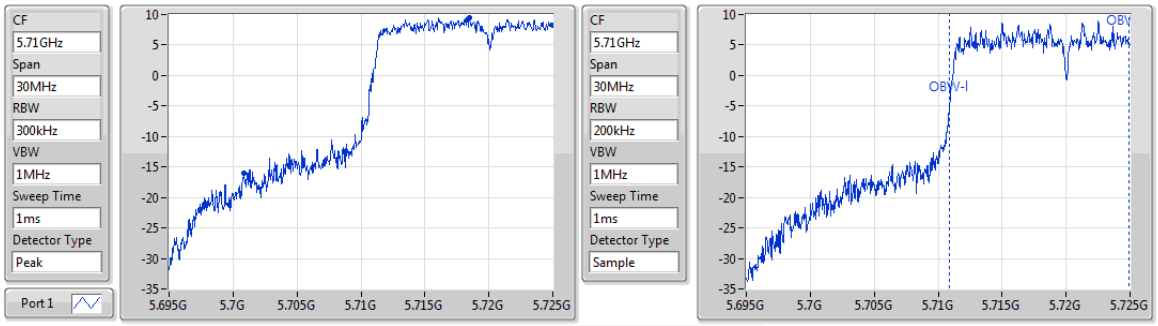
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.449M	5.689348G	5.710797G	17.656M	5.691172G	5.708828G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

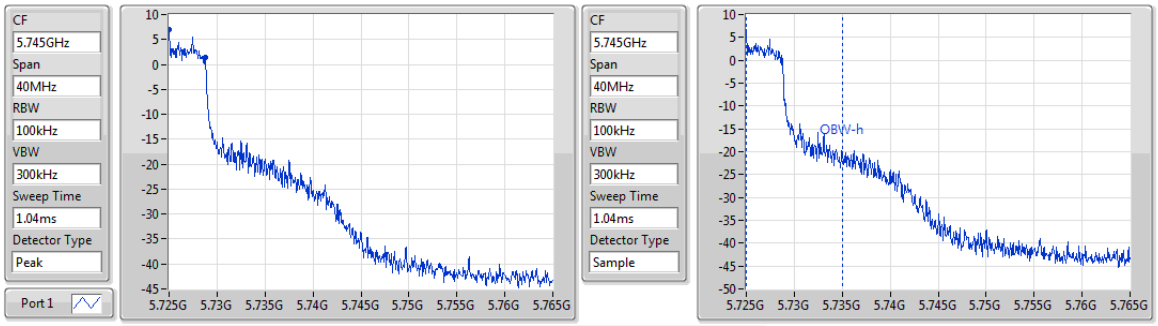
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.174M	5.700826G	5.725G	14.067M	5.710868G	5.724935G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

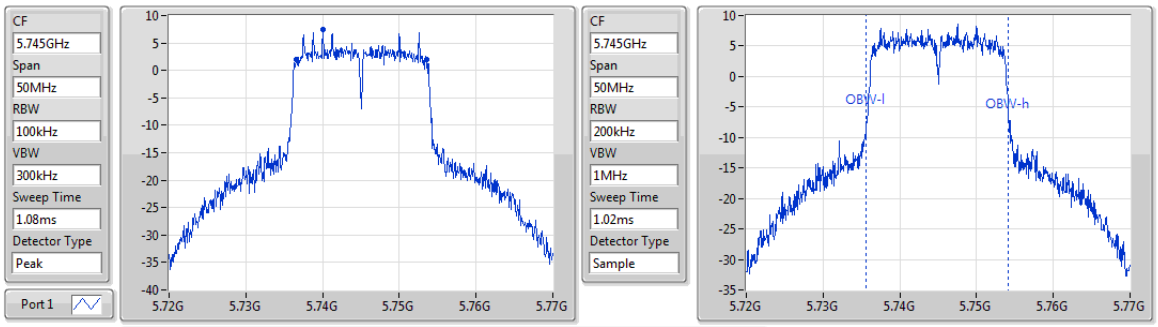
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.768M	5.725G	5.728768G	10.014M	5.725029G	5.735043G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

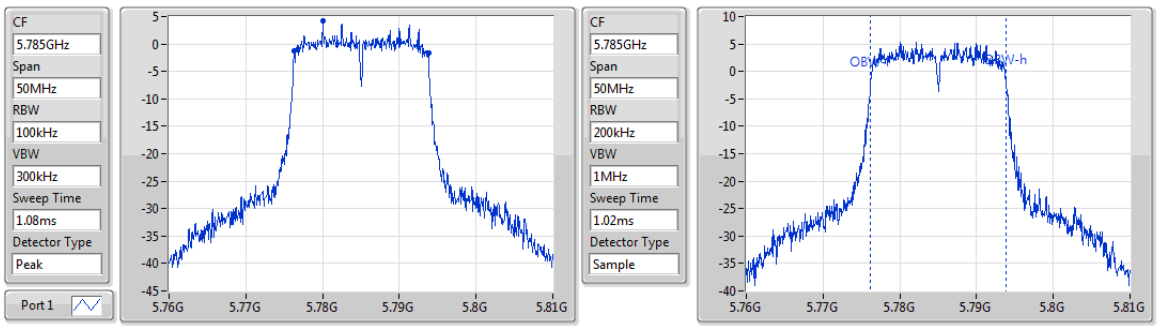
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.029M	5.736522G	5.753551G	18.524M	5.735666G	5.75419G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

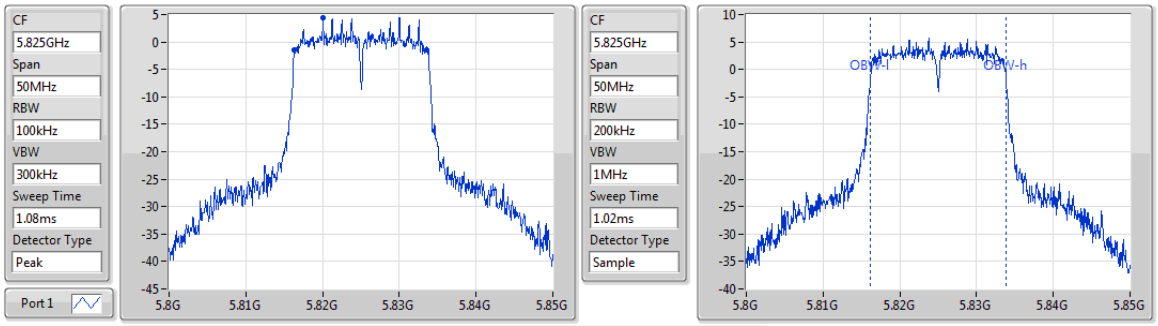
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.609M	5.776232G	5.793841G	17.728M	5.776172G	5.7939G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX **EBW**

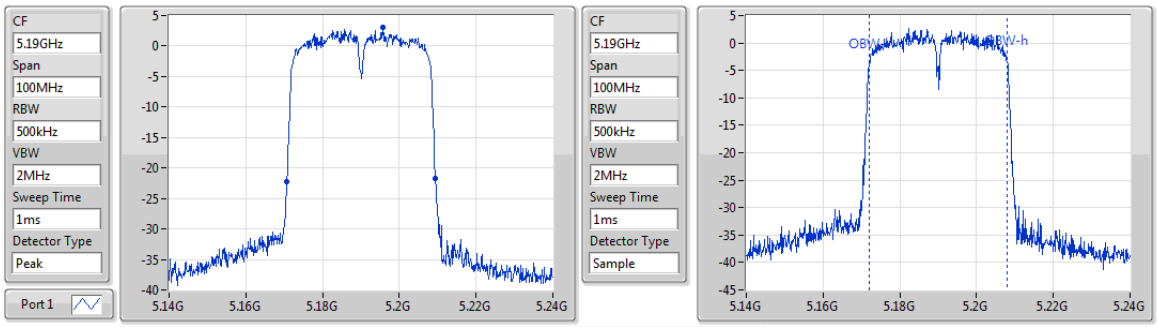
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.319M	5.816304G	5.833623G	17.8M	5.8161G	5.8339G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX **EBW**

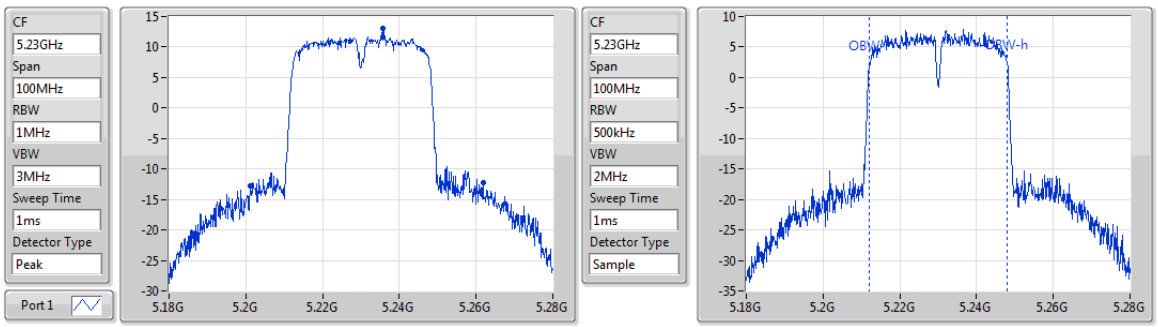
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.696M	5.170725G	5.20942G	35.89M	5.172055G	5.207945G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX **EBW**

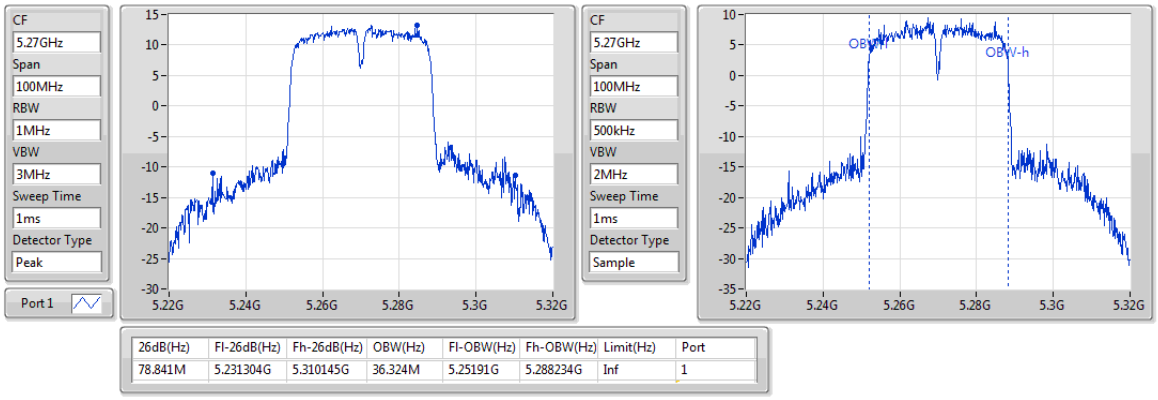
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
60.58M	5.201304G	5.261884G	36.035M	5.212055G	5.24809G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

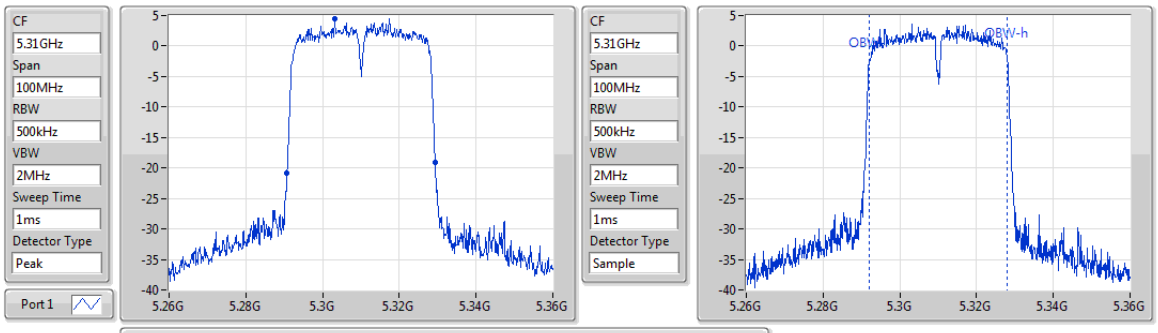
5270MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
78.841M	5.231304G	5.310145G	36.324M	5.25191G	5.288234G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

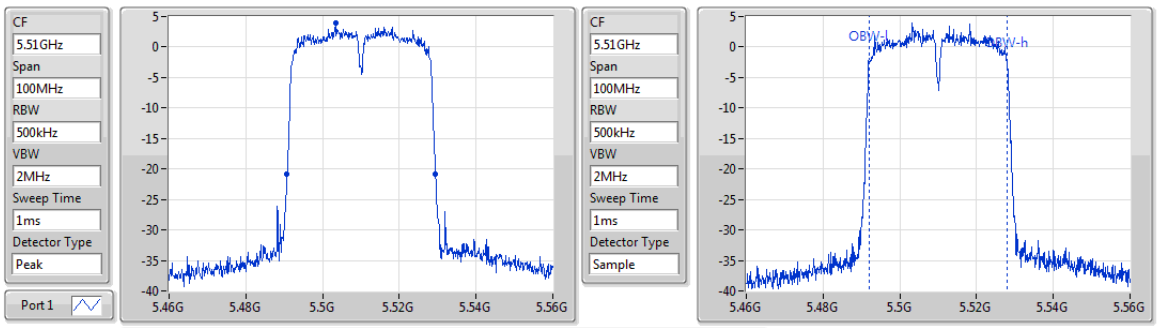
5310MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.696M	5.290725G	5.32942G	35.89M	5.292055G	5.327945G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

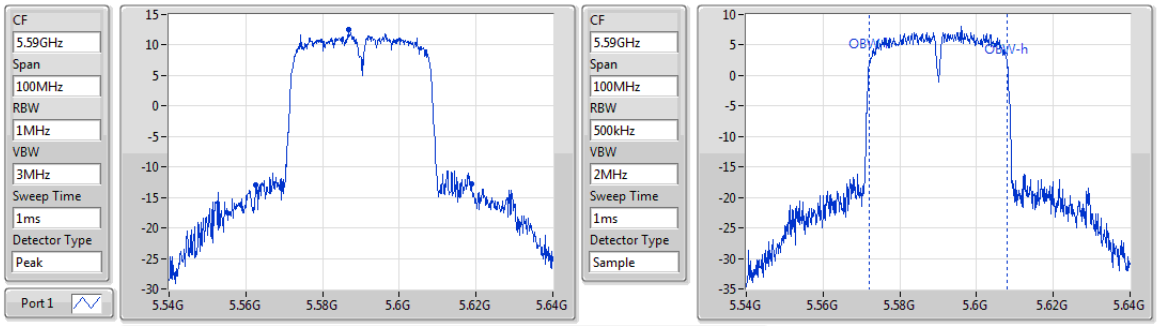
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.696M	5.490725G	5.52942G	35.89M	5.492055G	5.527945G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

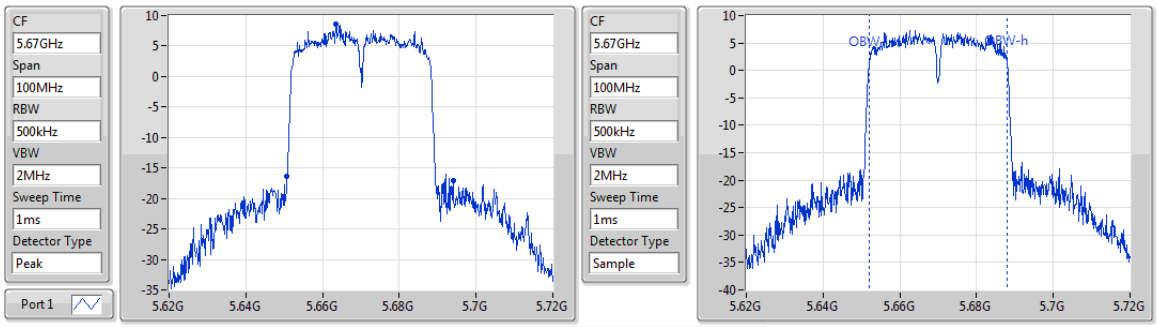
5590MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
56.232M	5.562464G	5.618696G	36.035M	5.572055G	5.60809G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

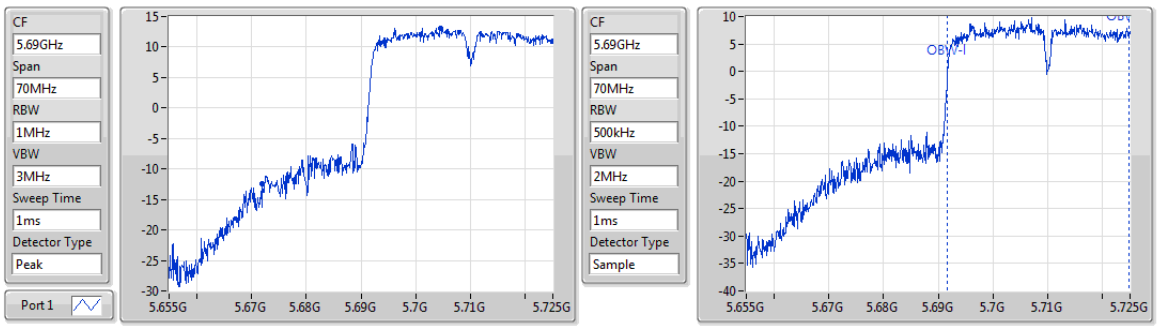
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43.333M	5.650725G	5.694058G	35.89M	5.652055G	5.687945G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

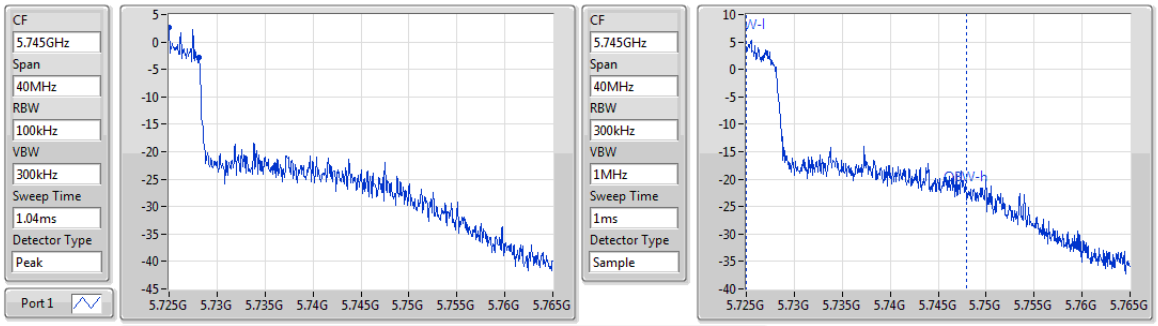
5710MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
52.957M	5.672043G	5.725G	33.126M	5.691722G	5.724848G	Inf	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

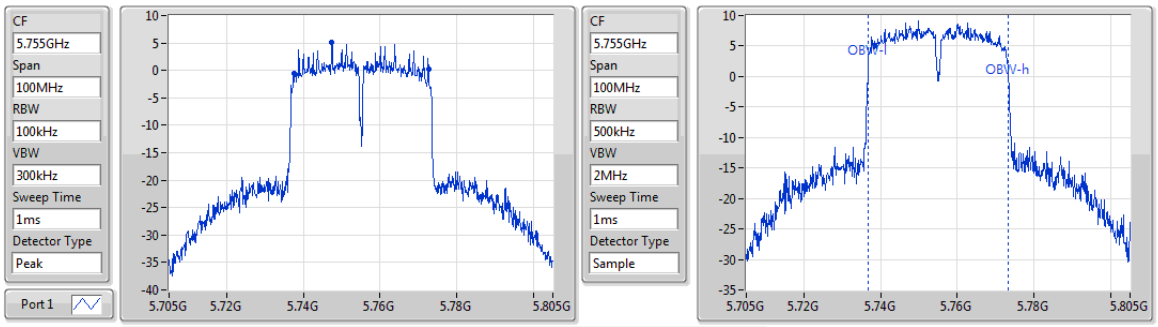
5710MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.13M	5.725G	5.72813G	22.923M	5.725029G	5.747952G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

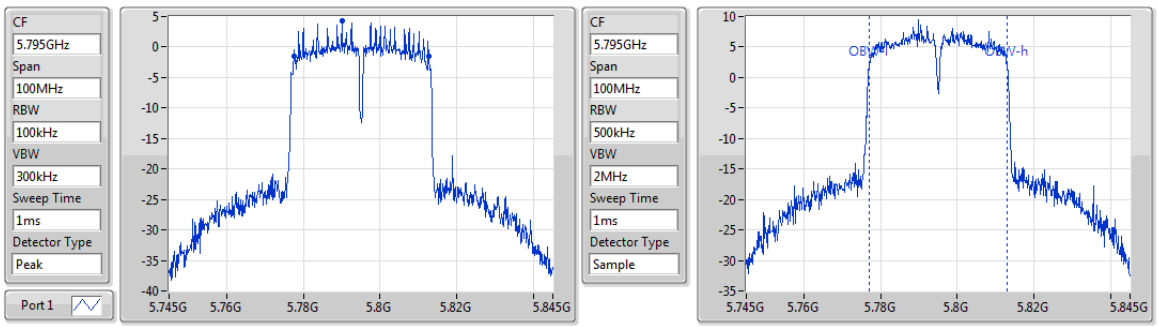
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.072M	5.737609G	5.772681G	36.614M	5.736766G	5.773379G	500k	1

802.11n HT40_Nss1,(MCS0)_1TX EBW

5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.217M	5.777464G	5.812681G	36.179M	5.77691G	5.81309G	500k	1

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☒	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		**Limit**
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: “B” is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

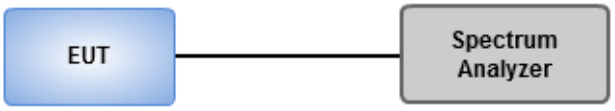
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%).

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Ambient Condition	24°C / 67%	Tested By	Aska Huang

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.37	0.06871	20.96	0.12474
802.11n HT20_Nss1,(MCS0)_1TX	18.42	0.06950	21.01	0.12618
802.11n HT40_Nss1,(MCS0)_1TX	18.40	0.06918	20.99	0.12560
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.61	0.07261	21.23	0.13274
802.11n HT20_Nss1,(MCS0)_1TX	19.01	0.07962	21.63	0.14555
802.11n HT40_Nss1,(MCS0)_1TX	**19.75**	0.09441	22.37	0.17258
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.60	0.07244	21.39	0.13772
802.11n HT20_Nss1,(MCS0)_1TX	18.16	0.06546	20.95	0.12445
802.11n HT40_Nss1,(MCS0)_1TX	19.00	0.07943	21.79	0.15101
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.42	0.08750	22.86	0.19320
802.11n HT20_Nss1,(MCS0)_1TX	19.21	0.08337	22.65	0.18408
802.11n HT40_Nss1,(MCS0)_1TX	**19.47**	0.08851	22.91	0.19543

Result

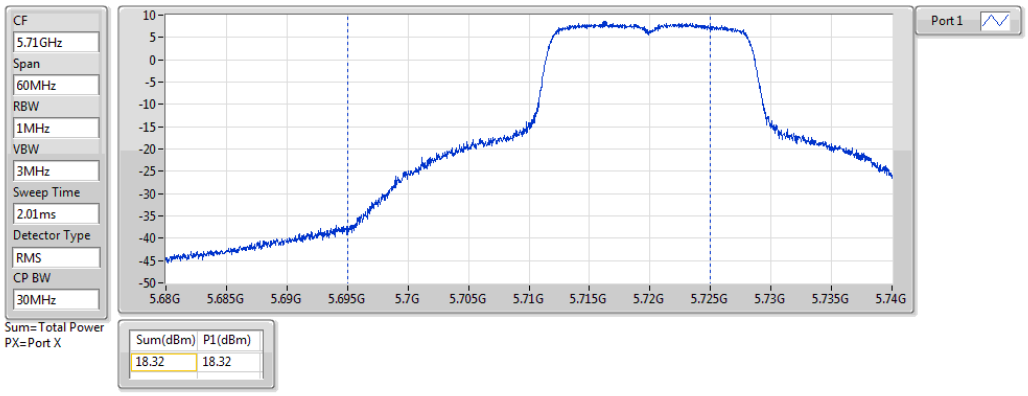
Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	17.11	17.11	24.00	19.70	30.00
5200MHz	Pass	2.59	18.37	18.37	24.00	20.96	30.00
5240MHz	Pass	2.59	18.15	18.15	24.00	20.74	30.00
5260MHz	Pass	2.62	18.61	18.61	24.00	21.23	30.00
5300MHz	Pass	2.62	16.02	16.02	24.00	18.64	30.00
5320MHz	Pass	2.62	17.82	17.82	24.00	20.44	30.00
5500MHz	Pass	2.79	16.35	16.35	24.00	19.14	30.00
5580MHz	Pass	2.79	18.6	18.60	24.00	21.39	30.00
5700MHz	Pass	2.79	15.49	15.49	24.00	18.28	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	18.32	18.32	24.00	21.11	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	11.75	11.75	30.00	15.19	36.00
5745MHz	Pass	3.44	19.42	19.42	30.00	22.86	36.00
5785MHz	Pass	3.44	16.81	16.81	30.00	20.25	36.00
5825MHz	Pass	3.44	16.95	16.95	30.00	20.39	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	16.81	16.81	24.00	19.40	30.00
5200MHz	Pass	2.59	18.2	18.20	24.00	20.79	30.00
5240MHz	Pass	2.59	18.42	18.42	24.00	21.01	30.00
5260MHz	Pass	2.62	19.01	19.01	24.00	21.63	30.00
5300MHz	Pass	2.62	16.95	16.95	24.00	19.57	30.00
5320MHz	Pass	2.62	16.91	16.91	24.00	19.53	30.00
5500MHz	Pass	2.79	16.33	16.33	24.00	19.12	30.00
5580MHz	Pass	2.79	17.76	17.76	24.00	20.55	30.00
5700MHz	Pass	2.79	14.71	14.71	24.00	17.50	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	18.16	18.16	24.00	20.95	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	12.26	12.26	30.00	15.70	36.00
5745MHz	Pass	3.44	19.21	19.21	30.00	22.65	36.00
5785MHz	Pass	3.44	16.78	16.78	30.00	20.22	36.00
5825MHz	Pass	3.44	16.76	16.76	30.00	20.20	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	2.59	12.62	12.62	24.00	15.21	30.00
5230MHz	Pass	2.59	18.4	18.40	24.00	20.99	30.00
5270MHz	Pass	2.62	19.75	**19.75**	24.00	22.37	30.00
5310MHz	Pass	2.62	14.56	14.56	24.00	17.18	30.00
5510MHz	Pass	2.79	13.54	13.54	24.00	16.33	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5590MHz	Pass	2.79	18.55	18.55	24.00	21.34	30.00
5670MHz	Pass	2.79	17.52	17.52	24.00	20.31	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.79	19	19.00	24.00	21.79	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.44	7.27	7.27	30.00	10.71	36.00
5755MHz	Pass	3.44	19.47	**19.47**	30.00	22.91	36.00
5795MHz	Pass	3.44	18.52	18.52	30.00	21.96	36.00

DG = Directional Gain; **Port X** = Port X output power

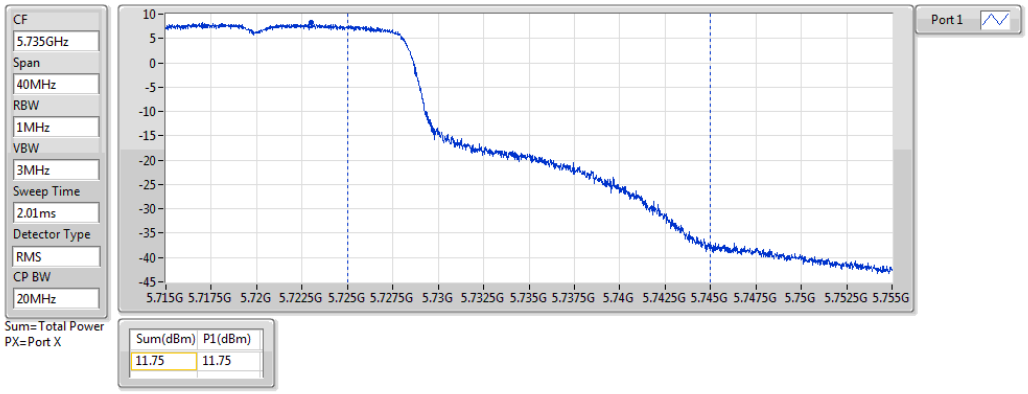
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz



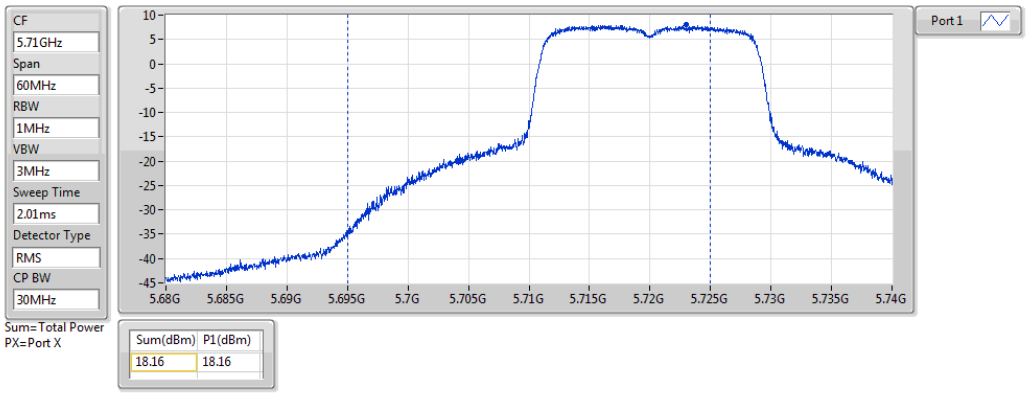
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz



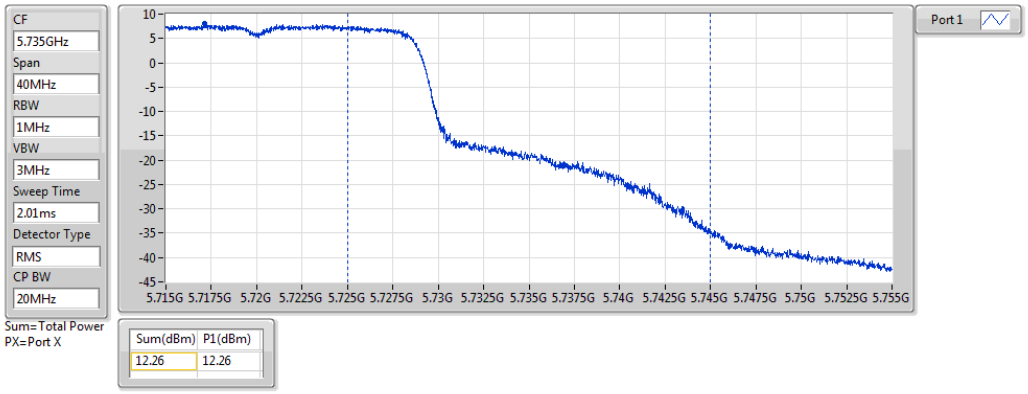
802.11n HT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz



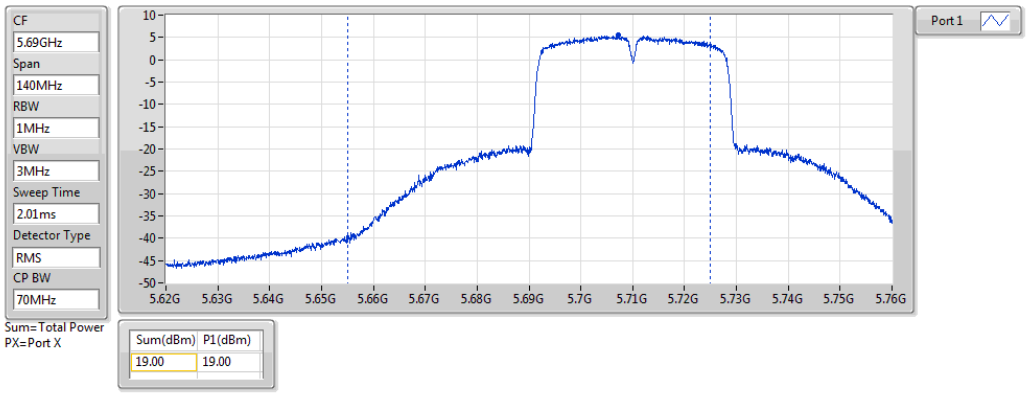
802.11n HT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz



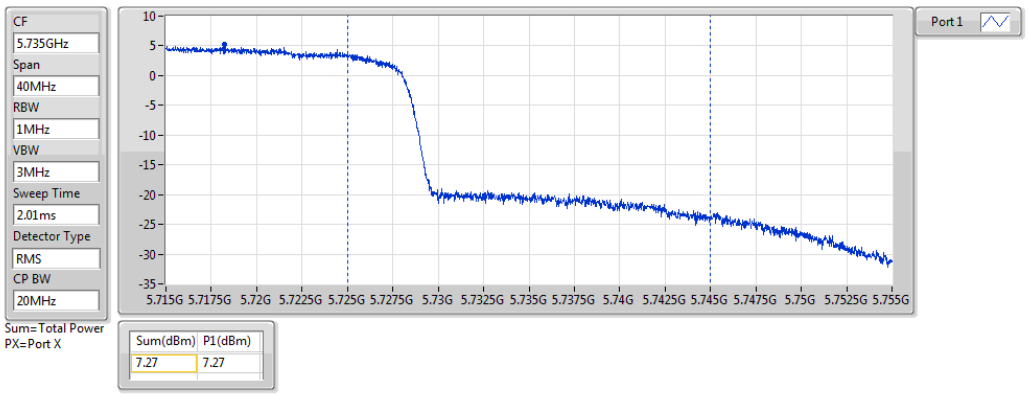
802.11n HT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.47-5.725GHz



802.11n HT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.725-5.85GHz



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	Outdoor access point	17 dBm / MHz
☐	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☒	Client devices	11 dBm / MHz

Frequency Band (MHz)		**Limit**
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle ≥ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

For 5725 ~ 5850 MHz

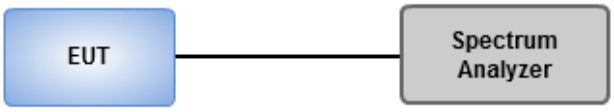
Duty cycle ≥ 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	24°C / 67%	Tested By	Aska Huang

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	5.14	7.73
802.11n HT20_Nss1,(MCS0)_1TX	4.95	7.54
802.11n HT40_Nss1,(MCS0)_1TX	2.14	4.73
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	5.17	7.79
802.11n HT20_Nss1,(MCS0)_1TX	5	7.62
802.11n HT40_Nss1,(MCS0)_1TX	3.14	5.76
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	6.14	8.93
802.11n HT20_Nss1,(MCS0)_1TX	5.87	8.66
802.11n HT40_Nss1,(MCS0)_1TX	3.2	5.99
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	4.74	8.18
802.11n HT20_Nss1,(MCS0)_1TX	4.25	7.69
802.11n HT40_Nss1,(MCS0)_1TX	1.35	4.79

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

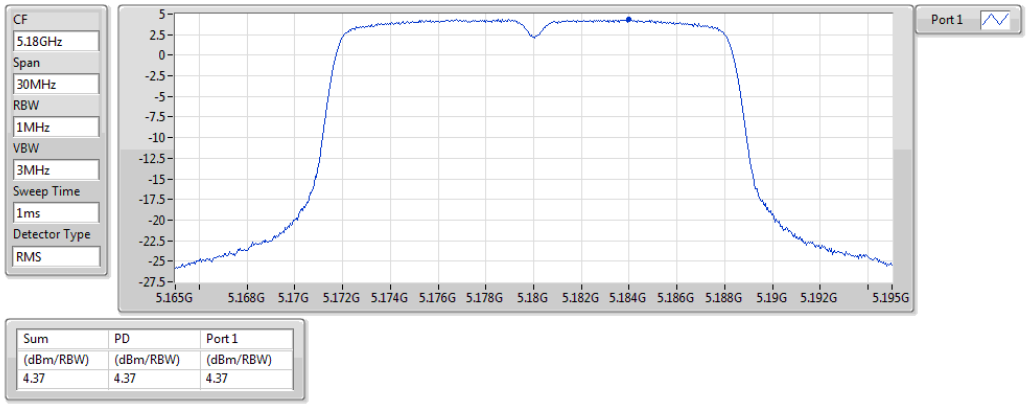
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	4.37	4.37	11.00	6.96	17.00
5200MHz	Pass	2.59	5.14	5.14	11.00	7.73	17.00
5240MHz	Pass	2.59	4.69	4.69	11.00	7.28	17.00
5260MHz	Pass	2.62	5.17	5.17	11.00	7.79	17.00
5300MHz	Pass	2.62	2.66	2.66	11.00	5.28	17.00
5320MHz	Pass	2.62	4.12	4.12	11.00	6.74	17.00
5500MHz	Pass	2.79	3.26	3.26	11.00	6.05	17.00
5580MHz	Pass	2.79	5.27	5.27	11.00	8.06	17.00
5700MHz	Pass	2.79	2.47	2.47	11.00	5.26	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	6.14	6.14	11.00	8.93	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	4.04	4.04	30.00	7.48	36.00
5745MHz	Pass	3.44	4.74	4.74	30.00	8.18	36.00
5785MHz	Pass	3.44	1.9	1.90	30.00	5.34	36.00
5825MHz	Pass	3.44	1.8	1.80	30.00	5.24	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	3.86	3.86	11.00	6.45	17.00
5200MHz	Pass	2.59	4.95	4.95	11.00	7.54	17.00
5240MHz	Pass	2.59	4.85	4.85	11.00	7.44	17.00
5260MHz	Pass	2.62	5	5.00	11.00	7.62	17.00
5300MHz	Pass	2.62	3.15	3.15	11.00	5.77	17.00
5320MHz	Pass	2.62	2.98	2.98	11.00	5.60	17.00
5500MHz	Pass	2.79	3.03	3.03	11.00	5.82	17.00
5580MHz	Pass	2.79	4.9	4.90	11.00	7.69	17.00
5700MHz	Pass	2.79	1.98	1.98	11.00	4.77	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	5.87	5.87	11.00	8.66	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	3.94	3.94	30.00	7.38	36.00
5745MHz	Pass	3.44	4.25	4.25	30.00	7.69	36.00
5785MHz	Pass	3.44	1.4	1.40	30.00	4.84	36.00
5825MHz	Pass	3.44	1.58	1.58	30.00	5.02	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	2.59	-3.54	-3.54	11.00	-0.95	17.00
5230MHz	Pass	2.59	2.14	2.14	11.00	4.73	17.00
5270MHz	Pass	2.62	3.14	3.14	11.00	5.76	17.00
5310MHz	Pass	2.62	-2.8	-2.80	11.00	-0.18	17.00
5510MHz	Pass	2.79	-2.96	-2.96	11.00	-0.17	17.00
5590MHz	Pass	2.79	2.04	2.04	11.00	4.83	17.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5670MHz	Pass	2.79	1.23	1.23	11.00	4.02	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.79	3.2	3.20	11.00	5.99	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.44	0.08	0.08	30.00	3.52	36.00
5755MHz	Pass	3.44	1.35	1.35	30.00	4.79	36.00
5795MHz	Pass	3.44	0.48	0.48	30.00	3.92	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD =Power density;
Port X = Port X power density;

802.11a_Nss1,(6Mbps)_1TX **PSD**

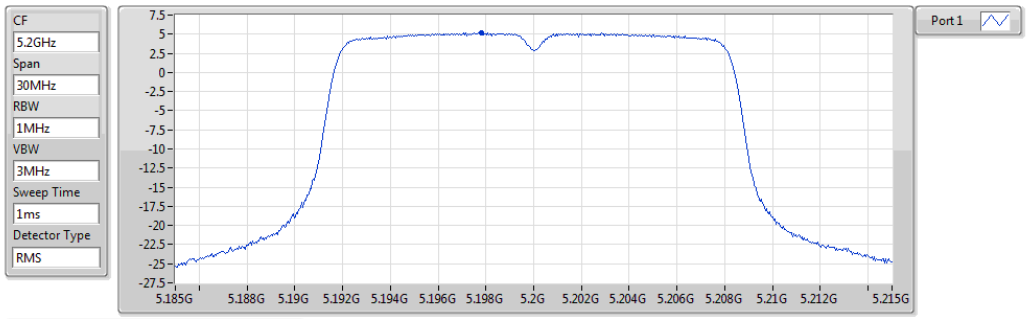
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.37	4.37	4.37

802.11a_Nss1,(6Mbps)_1TX **PSD**

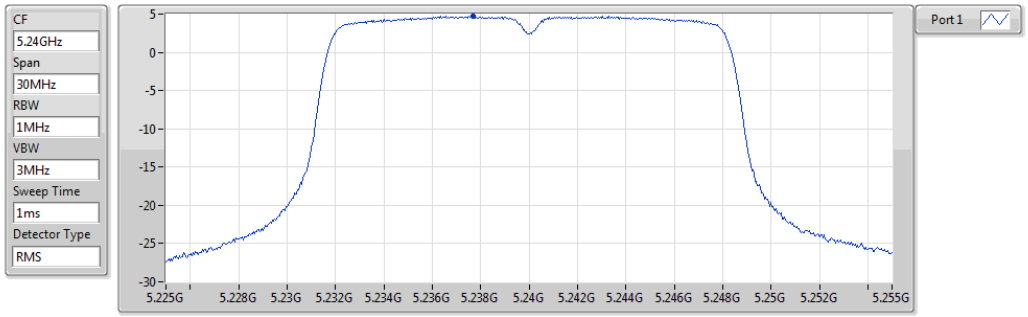
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.14	5.14	5.14

802.11a_Nss1,(6Mbps)_1TX **PSD**

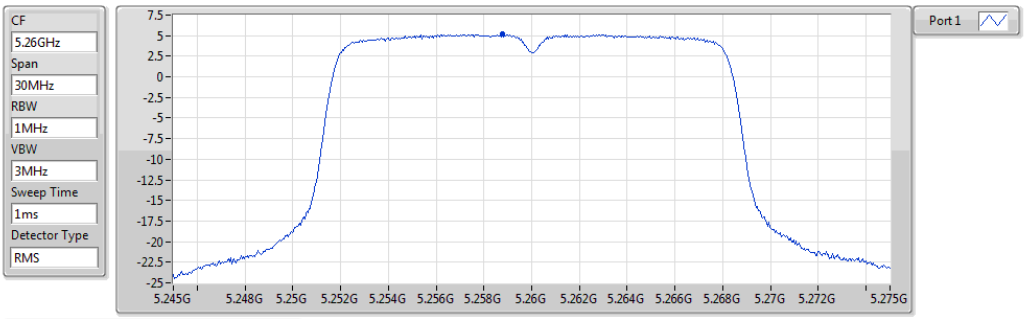
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.69	4.69	4.69

802.11a_Nss1,(6Mbps)_1TX **PSD**

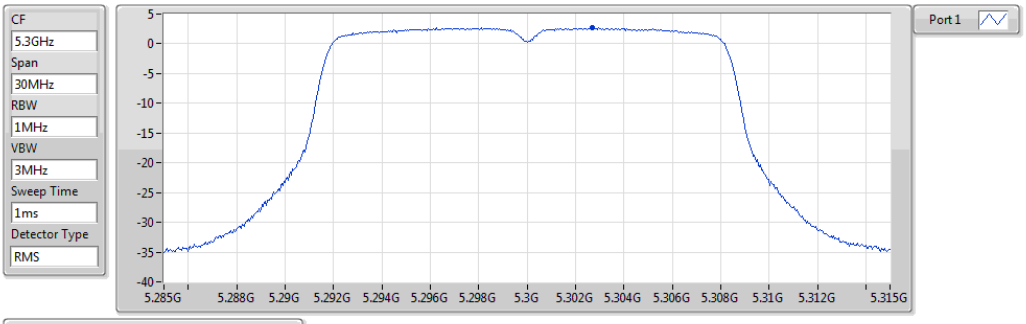
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.17	5.17	5.17

802.11a_Nss1,(6Mbps)_1TX **PSD**

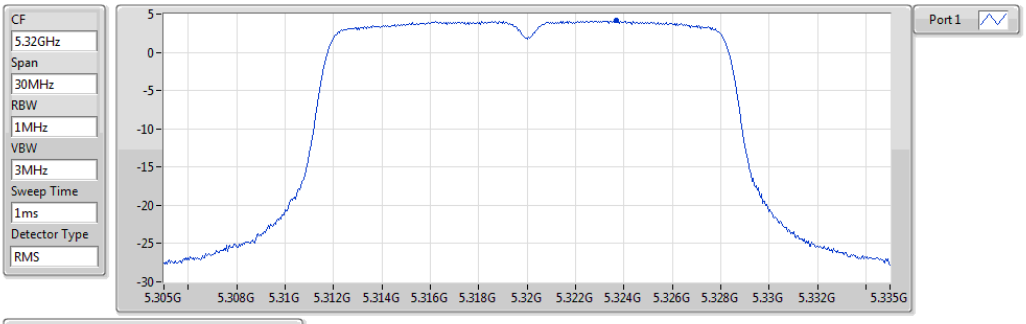
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.66	2.66	2.66

802.11a_Nss1,(6Mbps)_1TX **PSD**

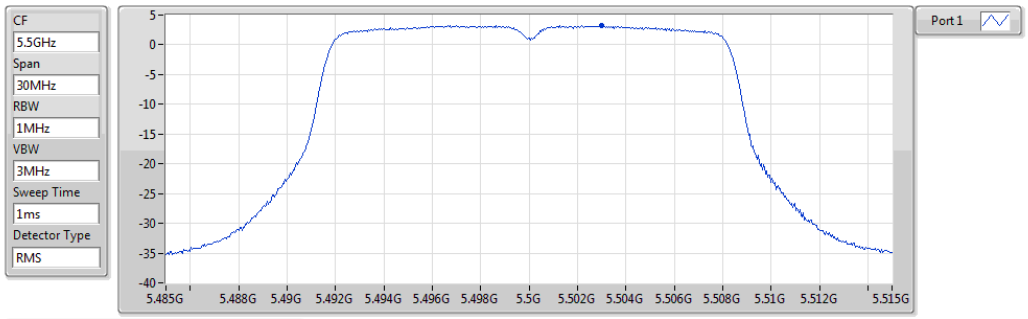
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.12	4.12	4.12

802.11a_Nss1,(6Mbps)_1TX **PSD**

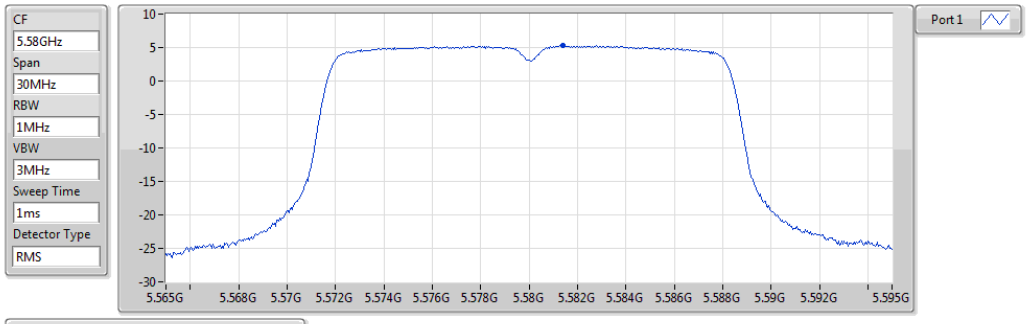
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.26	3.26	3.26

802.11a_Nss1,(6Mbps)_1TX **PSD**

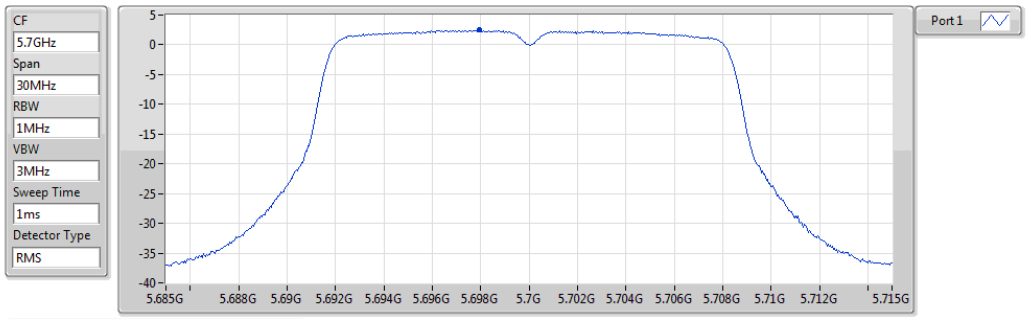
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.27	5.27	5.27

802.11a_Nss1,(6Mbps)_1TX **PSD**

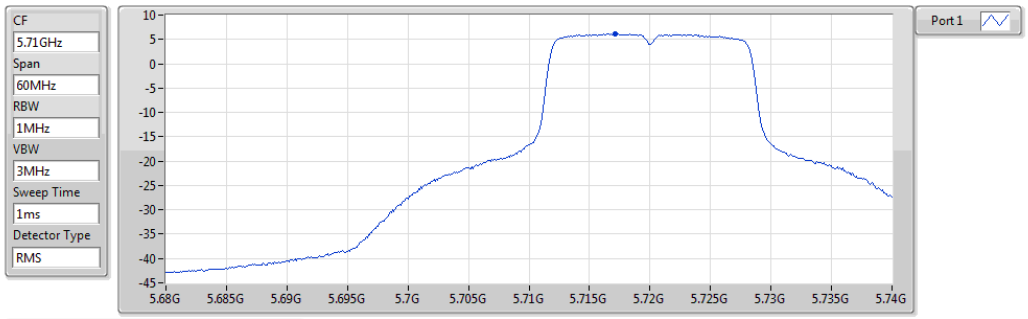
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.47	2.47	2.47

802.11a_Nss1,(6Mbps)_1TX **PSD**

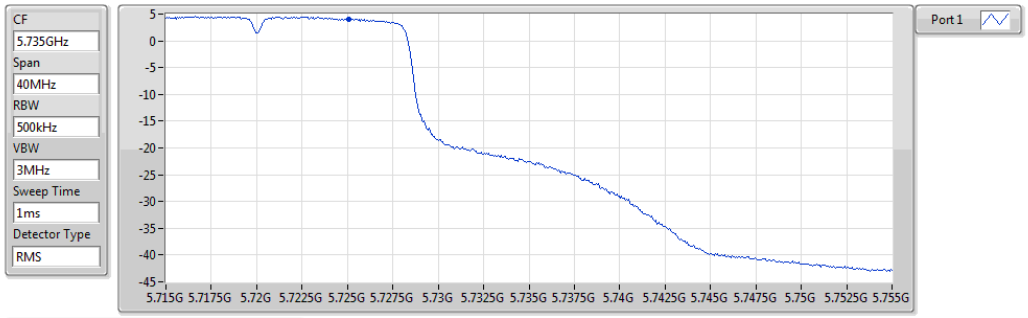
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.14	6.14	6.14

802.11a_Nss1,(6Mbps)_1TX **PSD**

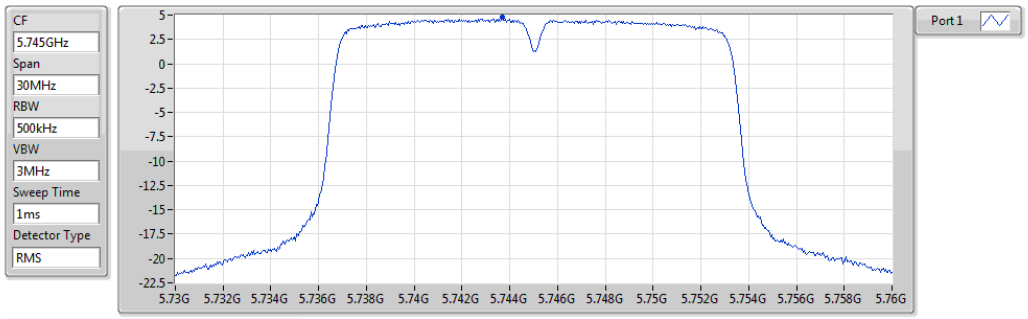
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.04	4.04	4.04

802.11a_Nss1,(6Mbps)_1TX **PSD**

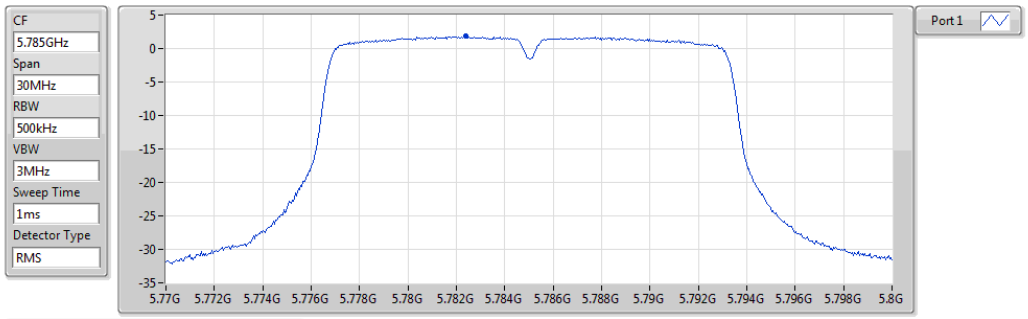
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.74	4.74	4.74

802.11a_Nss1,(6Mbps)_1TX **PSD**

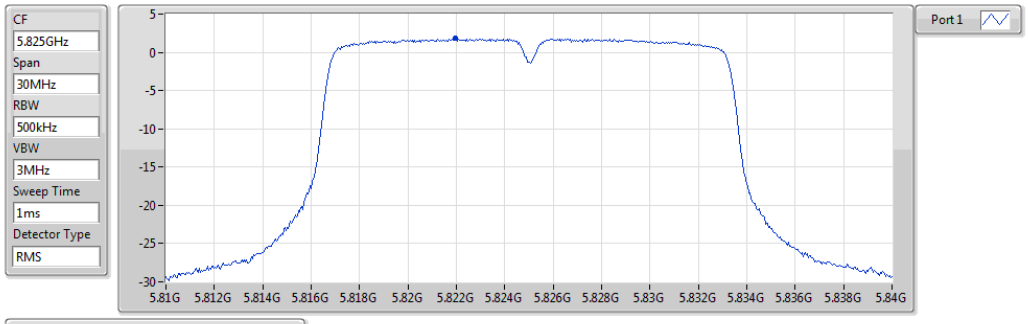
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.90	1.90	1.90

802.11a_Nss1,(6Mbps)_1TX **PSD**

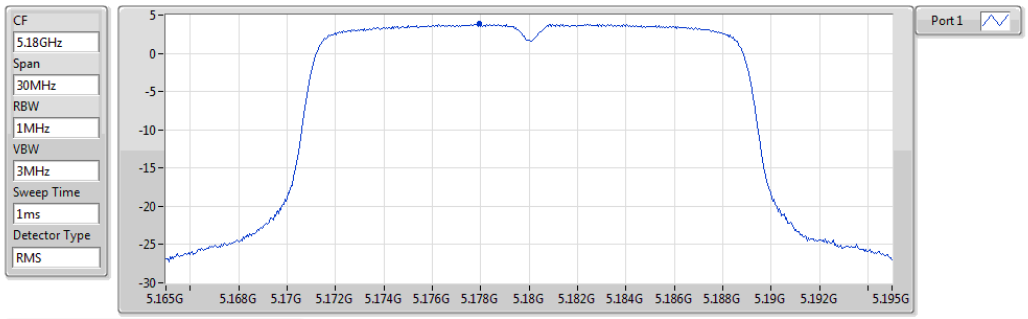
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.80	1.80	1.80

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

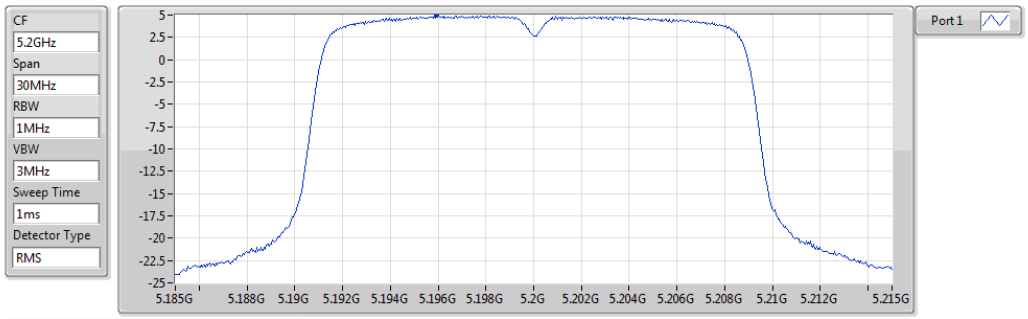
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.86	3.86	3.86

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

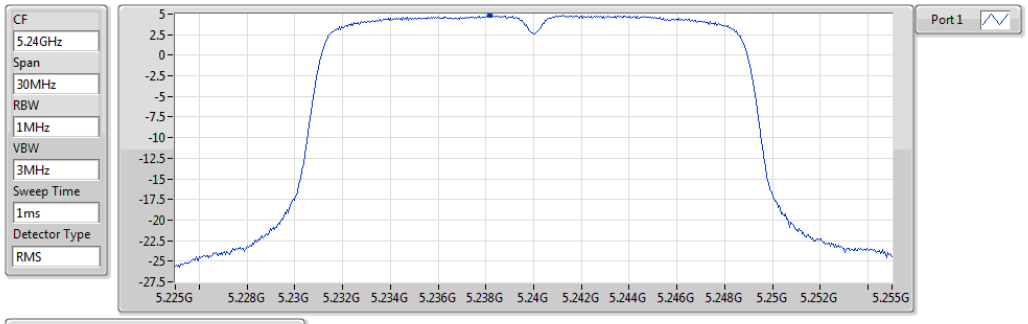
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.95	4.95	4.95

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

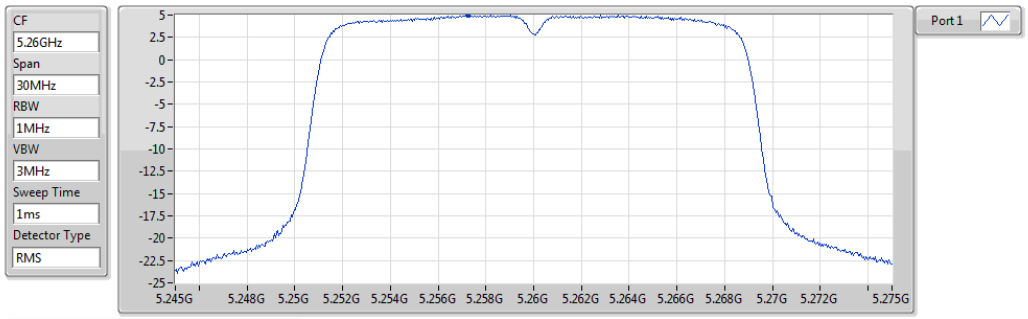
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.85	4.85	4.85

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

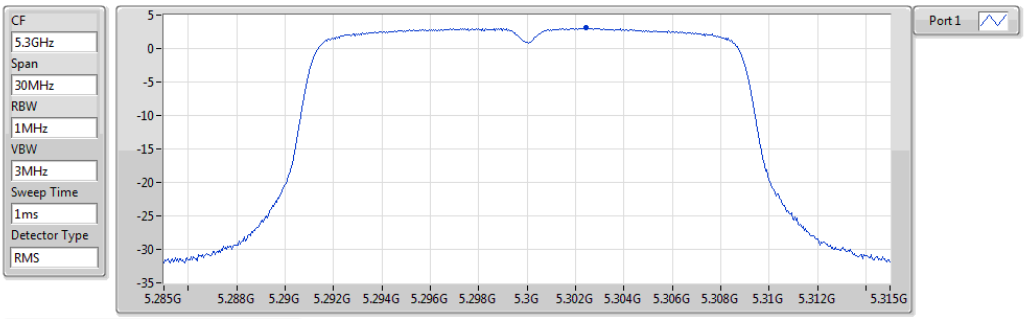
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.00	5.00	5.00

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

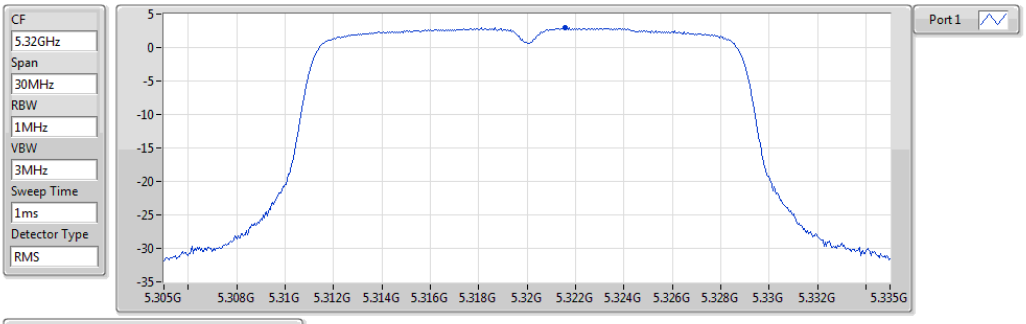
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.15	3.15	3.15

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

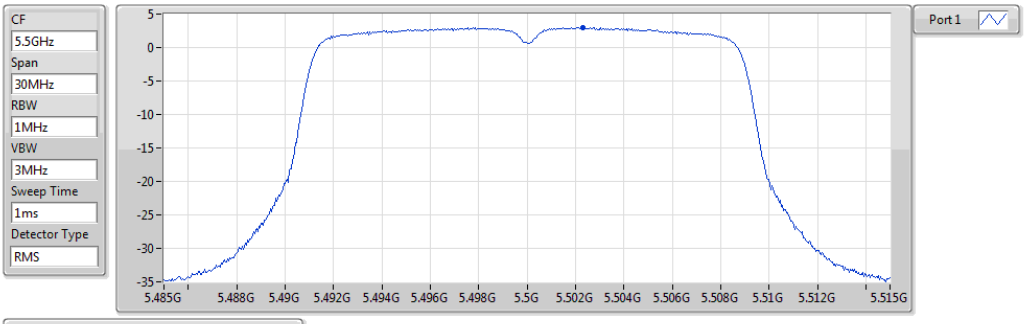
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.98	2.98	2.98

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

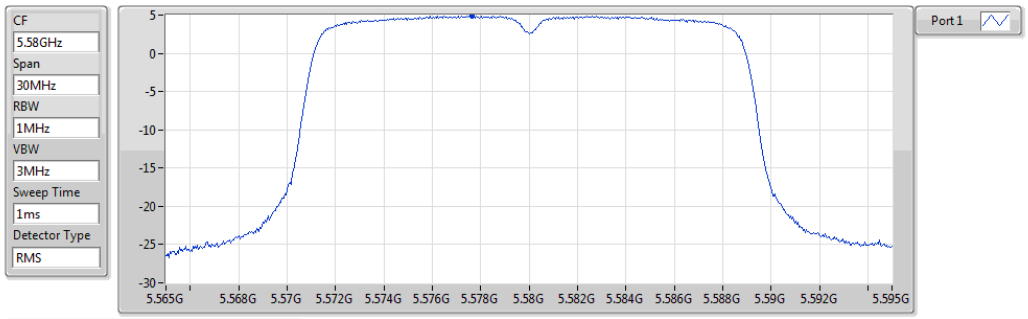
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.03	3.03	3.03

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

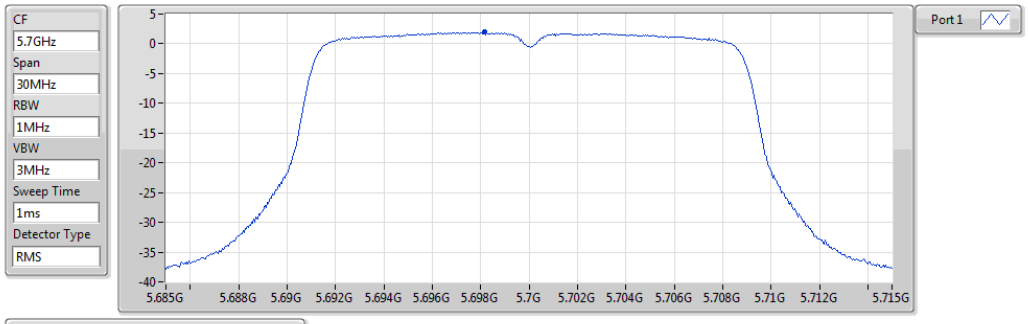
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.90	4.90	4.90

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

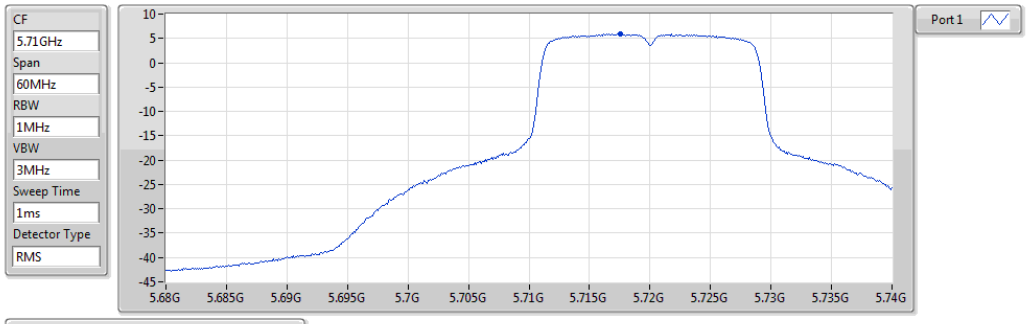
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.98	1.98	1.98

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

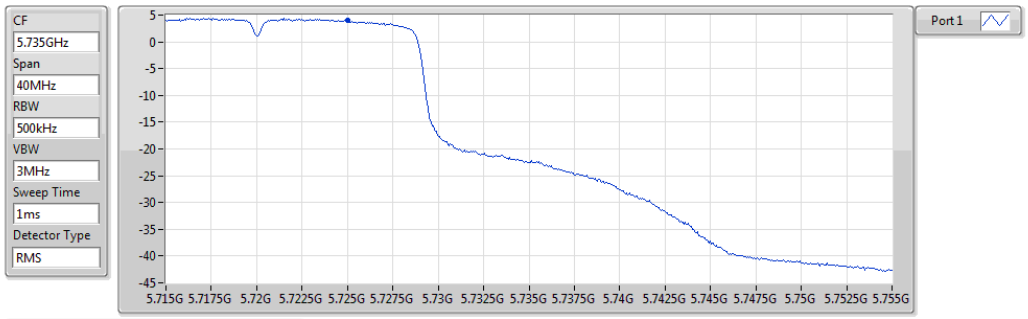
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.87	5.87	5.87

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

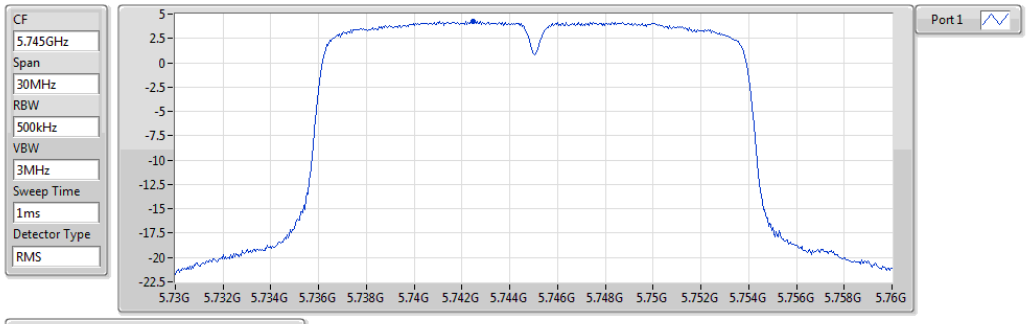
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.94	3.94	3.94

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

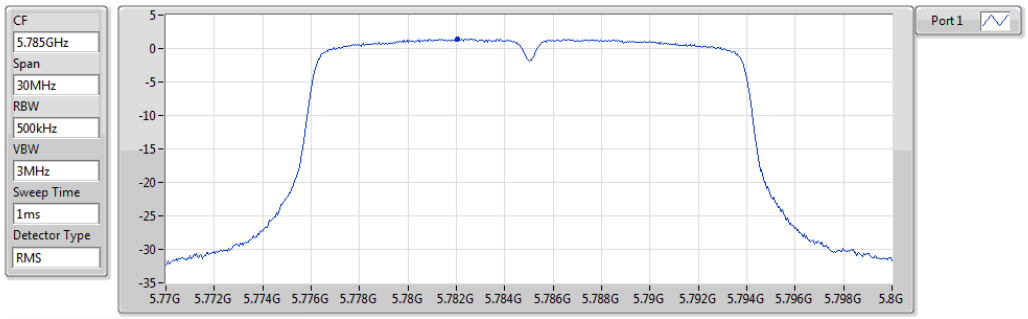
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.25	4.25	4.25

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

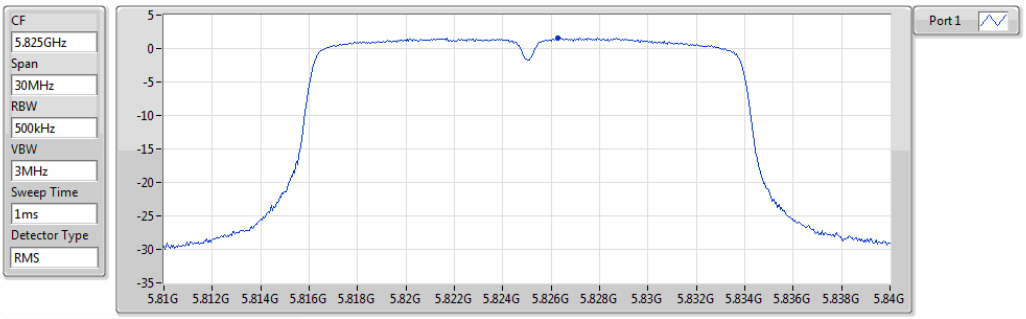
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.40	1.40	1.40

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

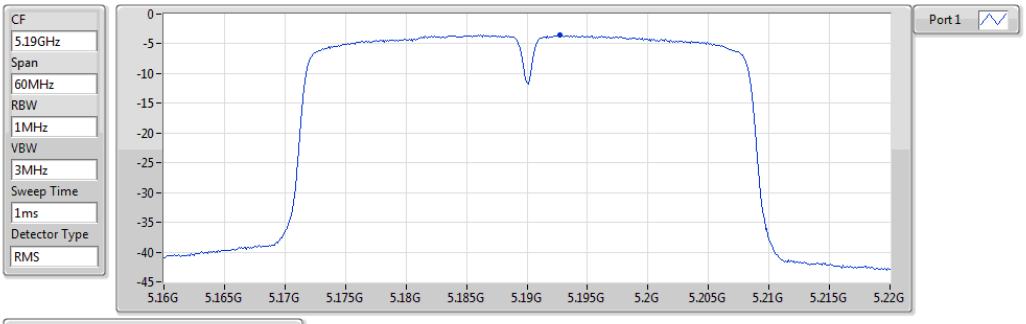
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.58	1.58	1.58

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

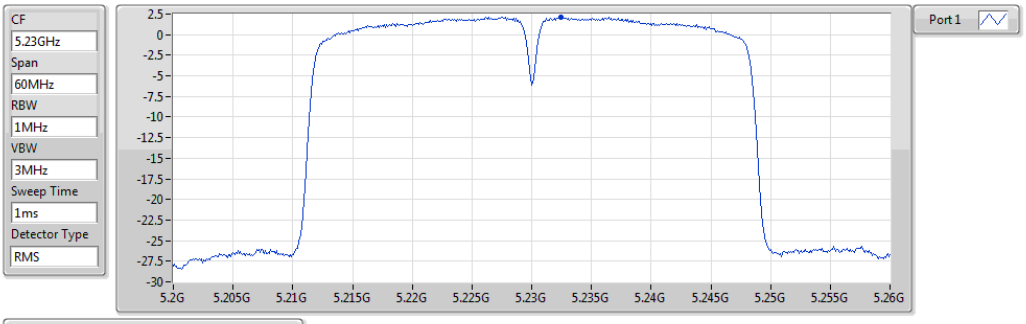
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.54	-3.54	-3.54

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

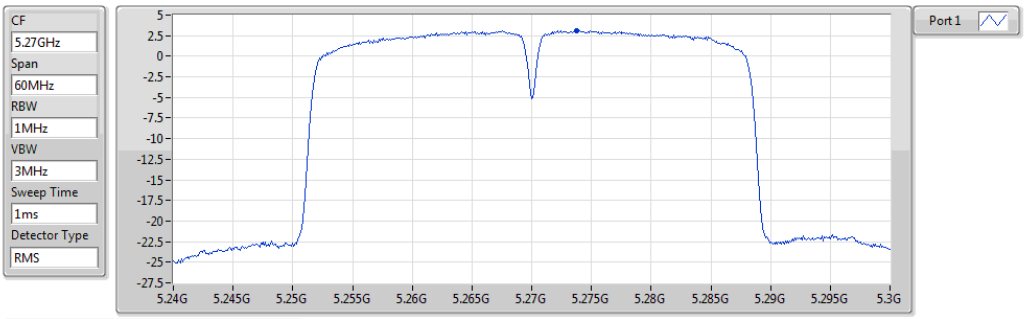
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.14	2.14	2.14

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

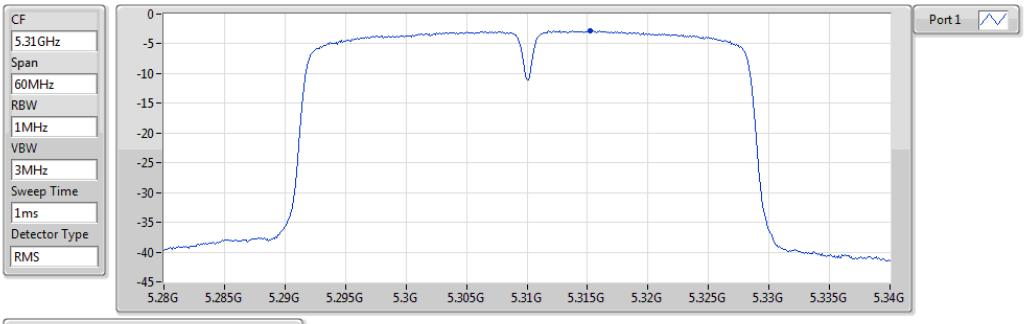
5270MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.14	3.14	3.14

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

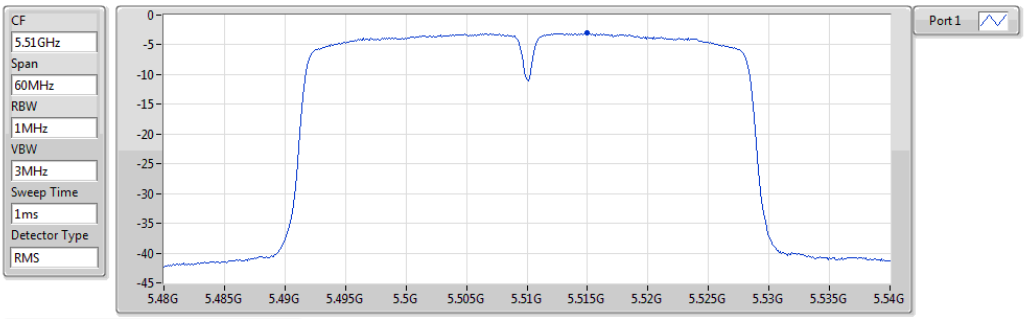
5310MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.80	-2.80	-2.80

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

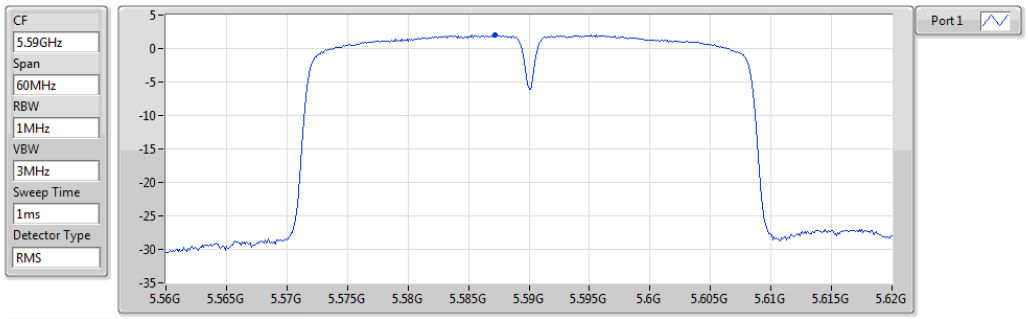
5510MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.96	-2.96	-2.96

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

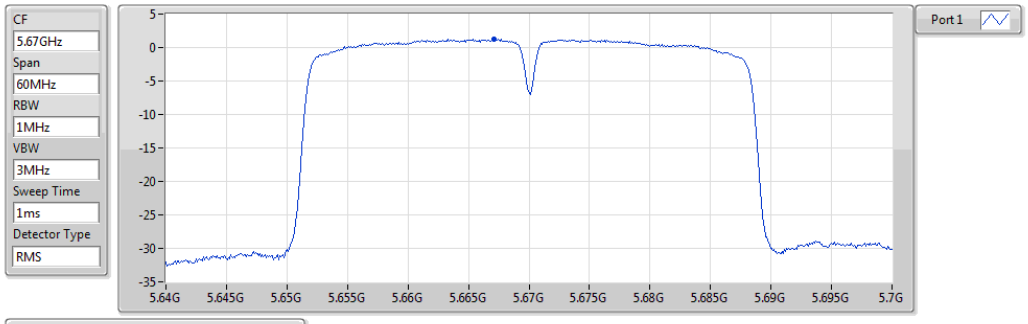
5590MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.04	2.04	2.04

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

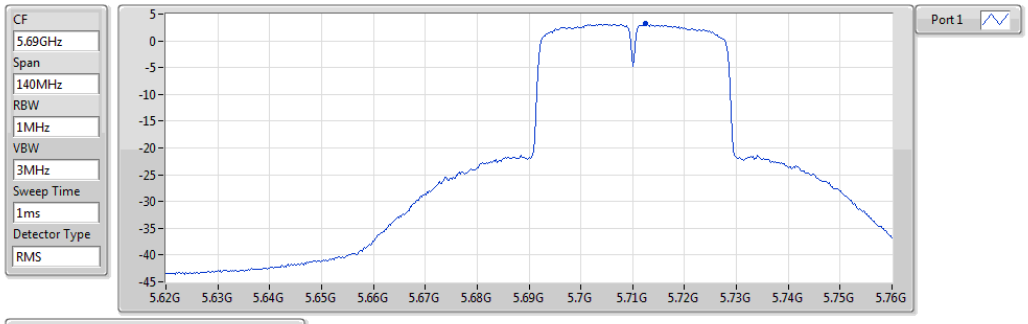
5670MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.23	1.23	1.23

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

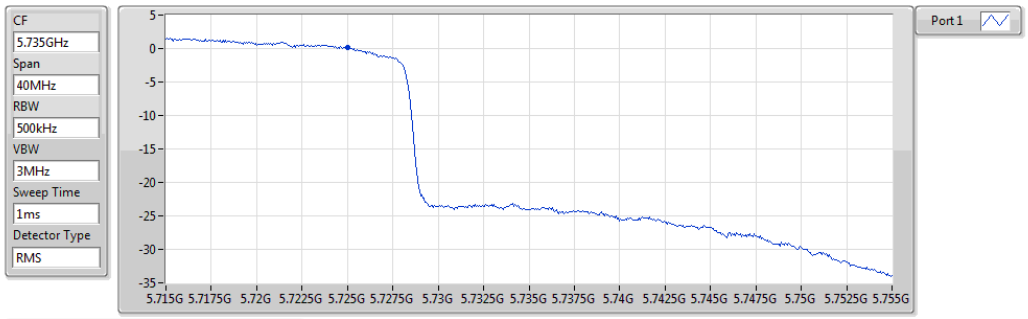
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.20	3.20	3.20

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

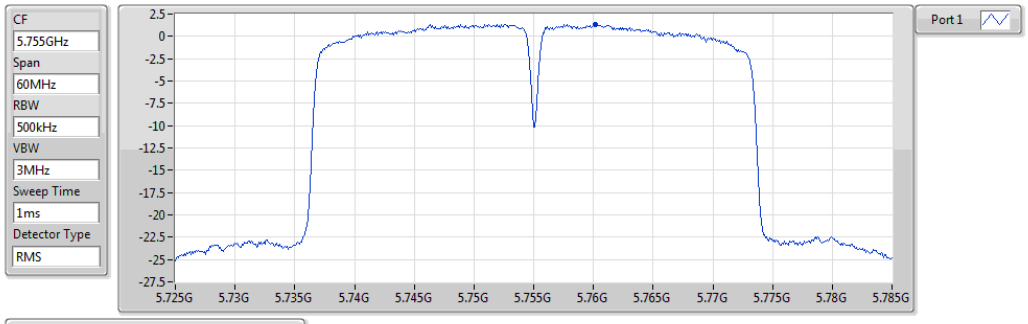
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.08	0.08	0.08

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

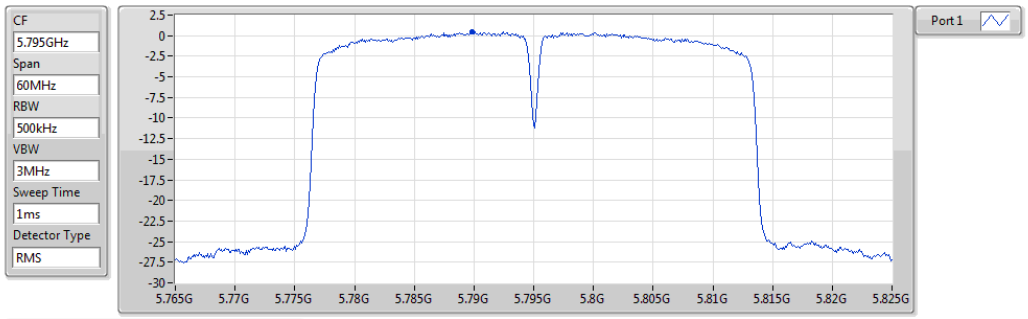
5755MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.35	1.35	1.35

802.11n HT40_Nss1,(MCS0)_1TX **PSD**

5795MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.48	0.48	0.48

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	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.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Test Procedures

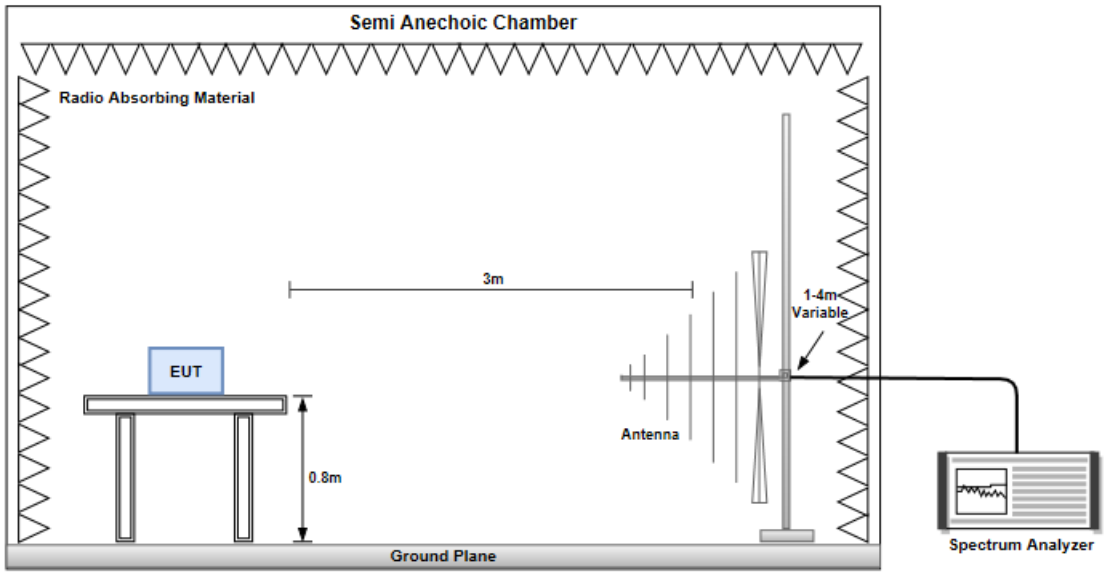
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

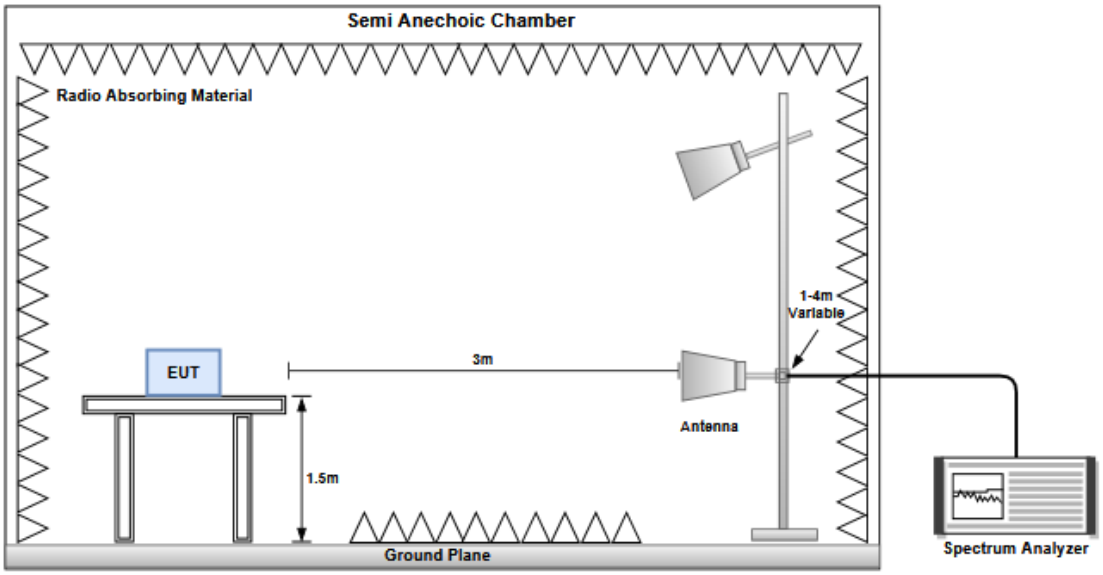
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz



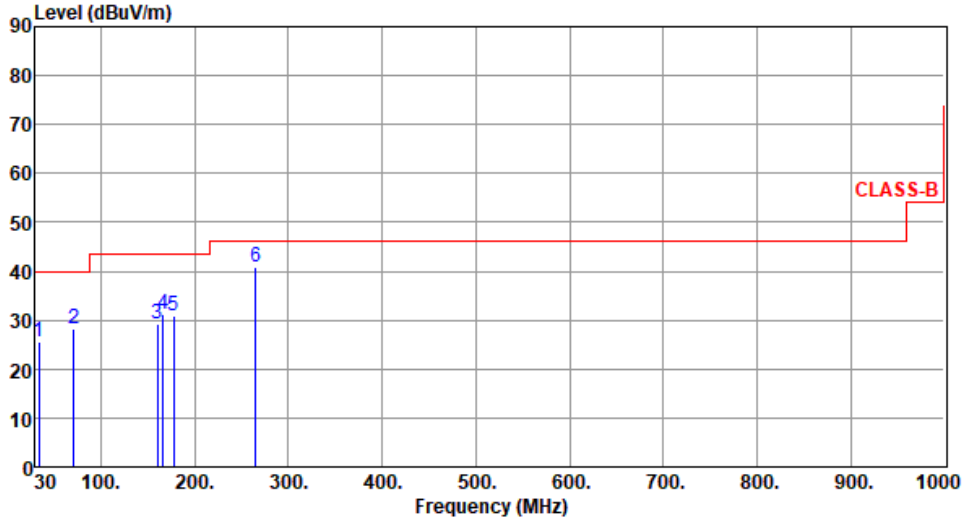
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):66

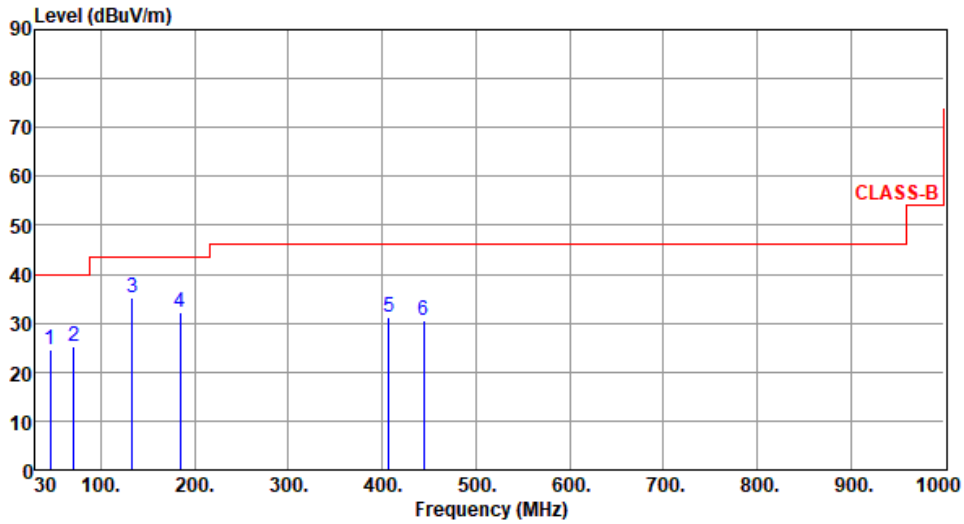


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	34.23	25.55	40.00	-14.45	35.62	-10.07	Peak	---	---
2	71.45	28.33	40.00	-11.67	39.36	-11.03	Peak	---	---
3	160.55	29.11	43.50	-14.39	37.61	-8.50	Peak	---	---
4	166.55	31.33	43.50	-12.17	40.10	-8.77	Peak	---	---
5	177.55	30.75	43.50	-12.75	40.49	-9.74	Peak	---	---
6	265.25	40.85	46.00	-5.15	50.26	-9.41	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):66

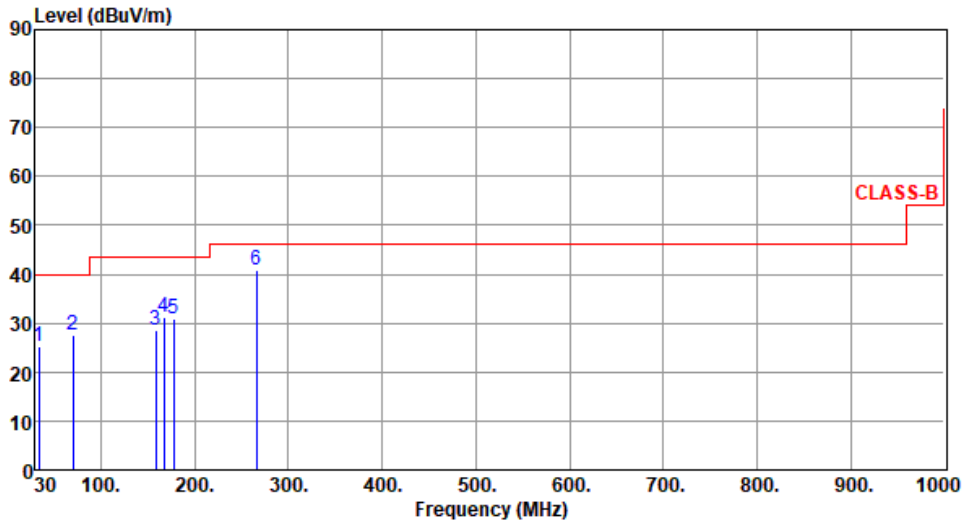


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	45.88	24.66	40.00	-15.34	33.56	-8.90	Peak	---	---
2	70.88	25.12	40.00	-14.88	36.15	-11.03	Peak	---	---
3	133.55	35.11	43.50	-8.39	44.64	-9.53	Peak	---	---
4	184.25	32.32	43.50	-11.18	42.87	-10.55	Peak	---	---
5	407.55	31.21	46.00	-14.79	36.45	-5.24	Peak	---	---
6	444.11	30.66	46.00	-15.34	34.56	-3.90	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT40	Test Freq. (MHz)	5755
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):66

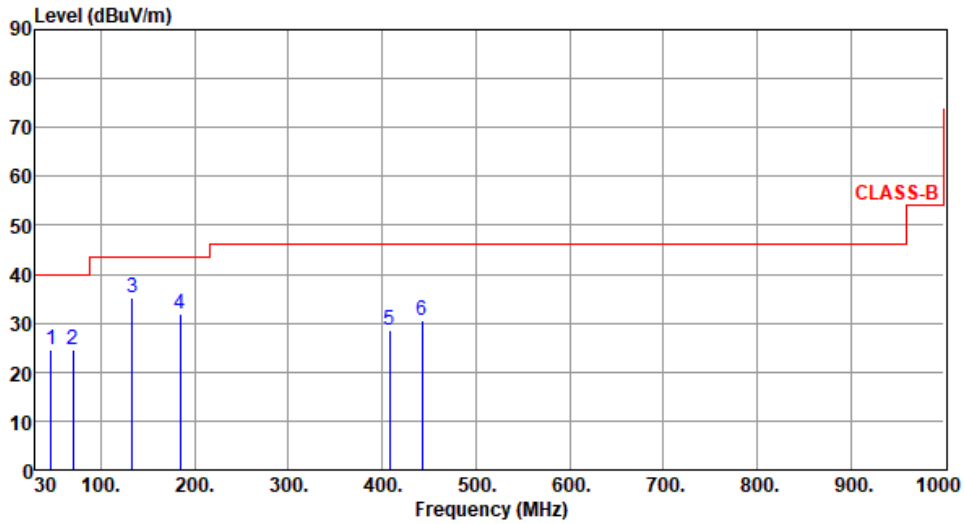


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	33.88	25.27	40.00	-14.73	35.45	-10.18	Peak	---	---
2	69.95	27.55	40.00	-12.45	38.58	-11.03	Peak	---	---
3	158.85	28.66	43.50	-14.84	37.07	-8.41	Peak	---	---
4	167.54	31.26	43.50	-12.24	40.08	-8.82	Peak	---	---
5	177.55	30.74	43.50	-12.76	40.48	-9.74	Peak	---	---
6	265.52	40.95	46.00	-5.05	50.34	-9.39	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):66



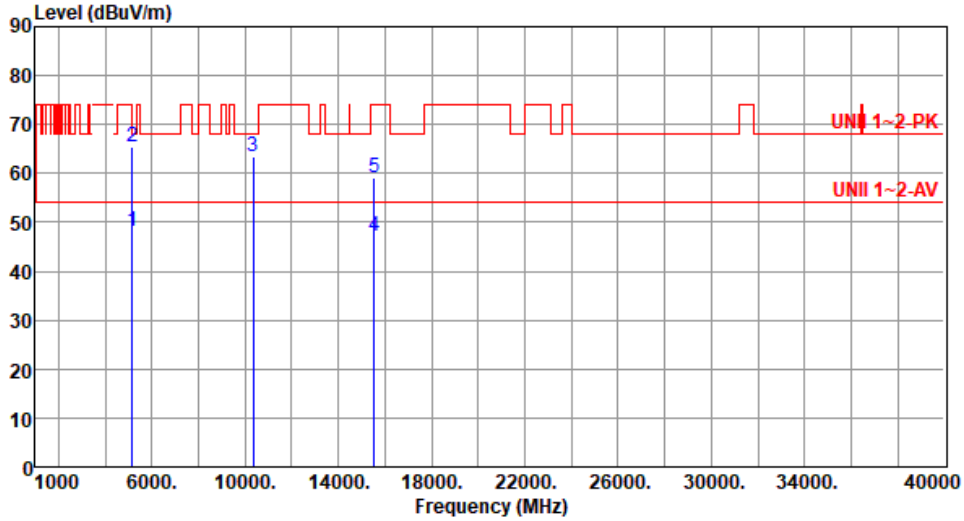
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	46.55	24.74	40.00	-15.26	33.54	-8.80	Peak	---	---
2	70.55	24.66	40.00	-15.34	35.70	-11.04	Peak	---	---
3	133.66	35.20	43.50	-8.30	44.69	-9.49	Peak	---	---
4	184.60	31.87	43.50	-11.63	42.49	-10.62	Peak	---	---
5	408.00	28.51	46.00	-17.49	33.75	-5.24	Peak	---	---
6	442.88	30.55	46.00	-15.45	34.48	-3.93	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

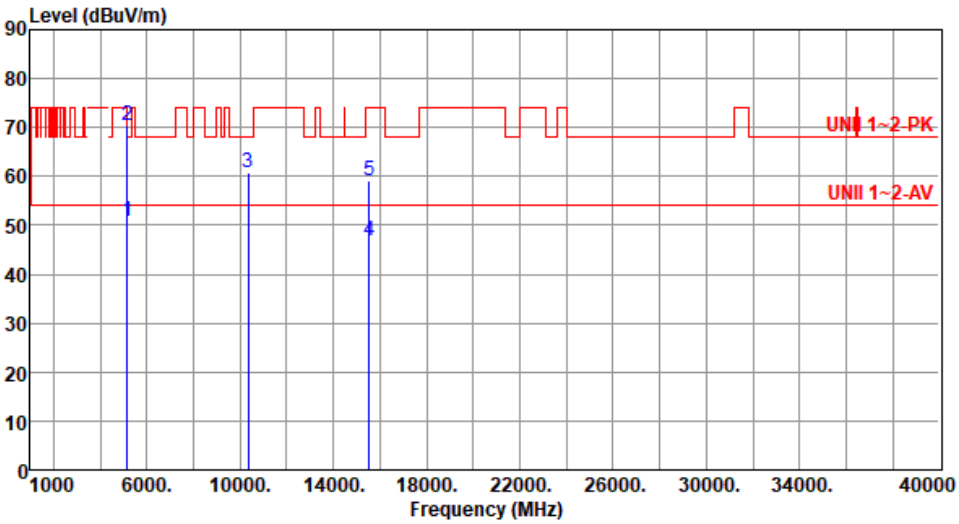


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	48.19	54.00	-5.81	41.88	6.31	Average	100	141
2	5150.00	65.26	74.00	-8.74	58.95	6.31	Peak	100	141
3	10360.00	63.40	68.20	-4.80	48.95	14.45	Peak	169	312
4	15540.00	47.21	54.00	-6.79	30.81	16.40	Average	100	302
5	15540.00	59.25	74.00	-14.75	42.85	16.40	Peak	100	302

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

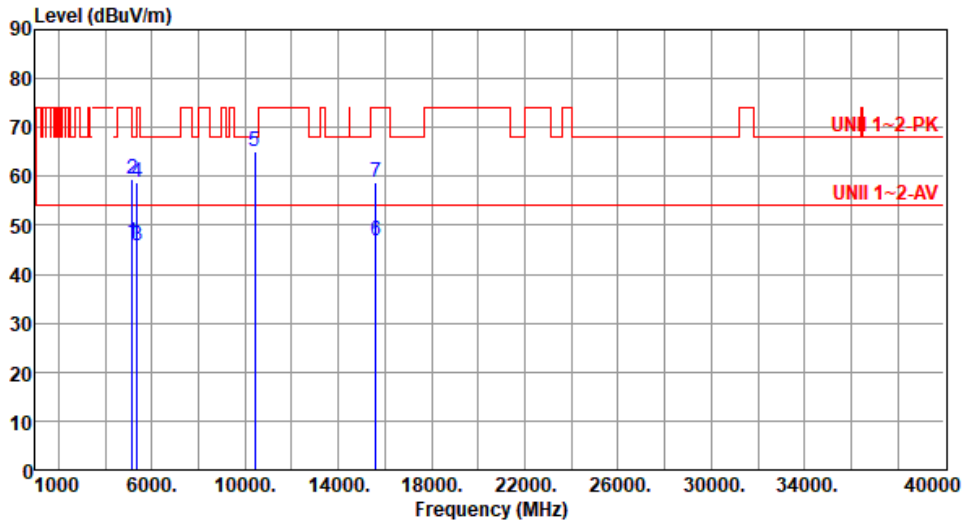


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.95	54.00	-3.05	44.64	6.31	Average	313	267
2	5150.00	70.45	74.00	-3.55	64.14	6.31	Peak	313	267
3	10360.00	60.70	68.20	-7.50	46.25	14.45	Peak	100	87
4	15540.00	46.95	54.00	-7.05	30.55	16.40	Average	100	90
5	15540.00	58.97	74.00	-15.03	42.57	16.40	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

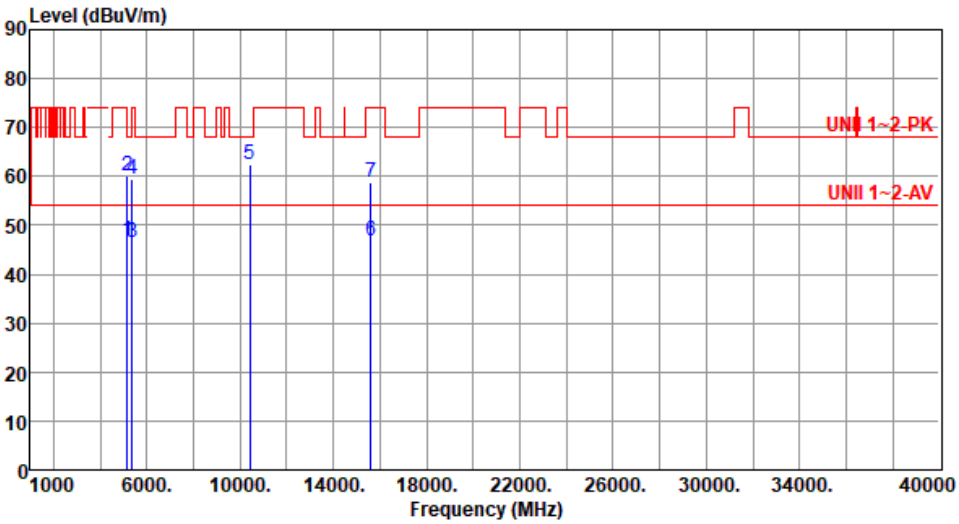


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.42	54.00	-7.58	40.11	6.31	Average	100	147
2	5150.00	59.52	74.00	-14.48	53.21	6.31	Peak	100	147
3	5350.00	45.96	54.00	-8.04	40.24	5.72	Average	100	147
4	5350.00	58.87	74.00	-15.13	53.15	5.72	Peak	100	147
5	10400.00	65.18	68.20	-3.02	50.70	14.48	Peak	100	309
6	15600.00	46.82	54.00	-7.18	30.88	15.94	Average	100	311
7	15600.00	58.79	74.00	-15.21	42.85	15.94	Peak	100	311

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

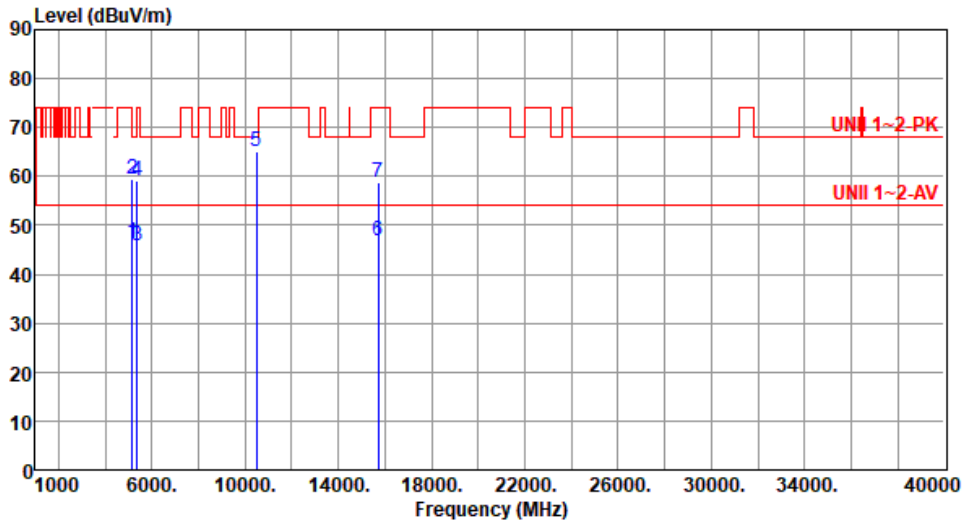


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.97	54.00	-7.03	40.66	6.31	Average	320	255
2	5150.00	59.95	74.00	-14.05	53.64	6.31	Peak	320	255
3	5350.00	46.34	54.00	-7.66	40.62	5.72	Average	320	255
4	5350.00	59.39	74.00	-14.61	53.67	5.72	Peak	320	255
5	10400.00	62.46	68.20	-5.74	47.98	14.48	Peak	105	81
6	15600.00	46.91	54.00	-7.09	30.97	15.94	Average	100	185
7	15600.00	58.83	74.00	-15.17	42.89	15.94	Peak	100	185

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

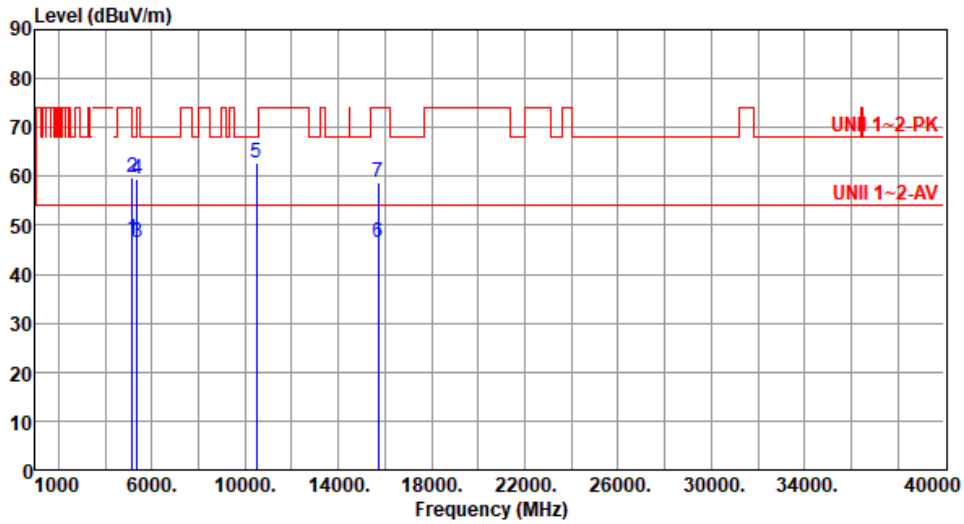


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.56	54.00	-7.44	40.25	6.31	Average	100	139
2	5150.00	59.56	74.00	-14.44	53.25	6.31	Peak	100	139
3	5350.00	45.89	54.00	-8.11	40.17	5.72	Average	100	139
4	5350.00	59.01	74.00	-14.99	53.29	5.72	Peak	100	139
5	10480.00	65.06	68.20	-3.14	50.43	14.63	Peak	176	314
6	15720.00	46.78	54.00	-7.22	30.83	15.95	Average	100	309
7	15720.00	58.81	74.00	-15.19	42.86	15.95	Peak	100	309

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

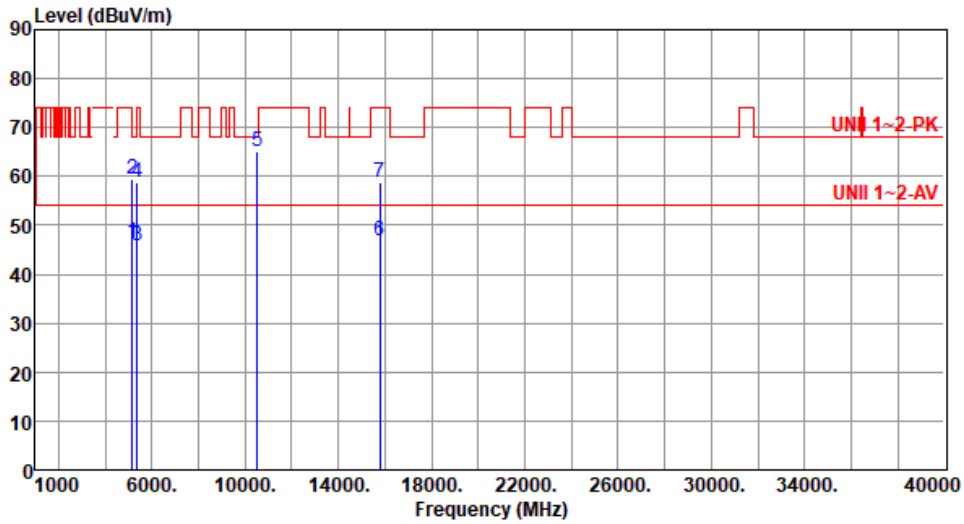


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.99	54.00	-7.01	40.68	6.31	Average	325	266
2	5150.00	59.93	74.00	-14.07	53.62	6.31	Peak	325	266
3	5350.00	46.36	54.00	-7.64	40.64	5.72	Average	325	266
4	5350.00	59.31	74.00	-14.69	53.59	5.72	Peak	325	266
5	10480.00	62.91	68.20	-5.29	48.28	14.63	Peak	103	84
6	15720.00	46.60	54.00	-7.40	30.65	15.95	Average	100	81
7	15720.00	58.63	74.00	-15.37	42.68	15.95	Peak	100	81

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

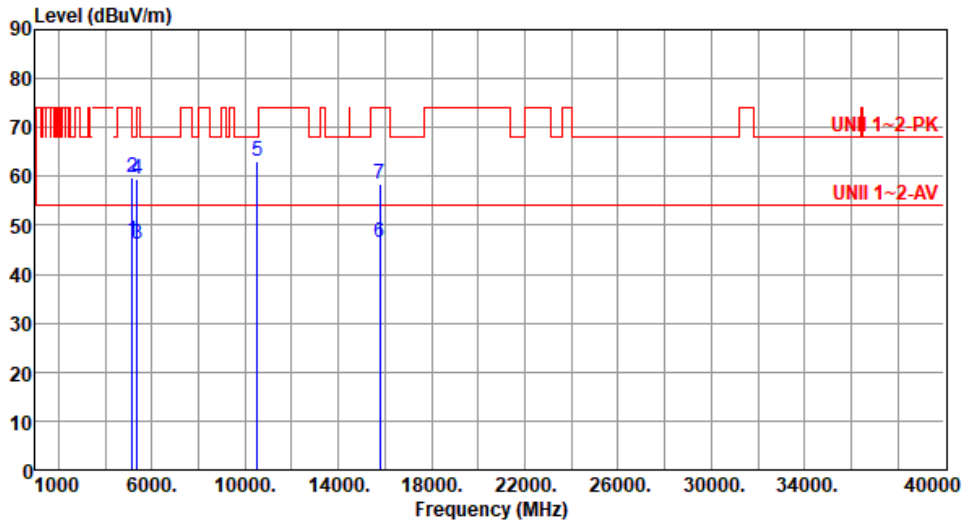


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.49	54.00	-7.51	40.18	6.31	Average	100	148
2	5150.00	59.59	74.00	-14.41	53.28	6.31	Peak	100	148
3	5350.00	45.99	54.00	-8.01	40.27	5.72	Average	100	148
4	5350.00	58.93	74.00	-15.07	53.21	5.72	Peak	100	148
5	10520.00	65.14	68.20	-3.06	50.47	14.67	Peak	176	317
6	15780.00	46.74	54.00	-7.26	30.88	15.86	Average	100	303
7	15780.00	58.69	74.00	-15.31	42.83	15.86	Peak	100	303

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

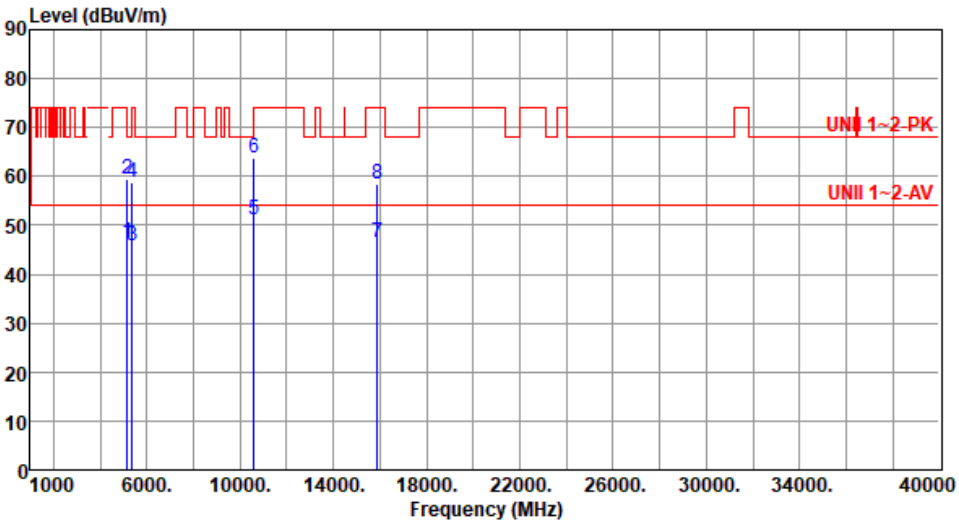


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.92	54.00	-7.08	40.61	6.31	Average	315	257
2	5150.00	59.89	74.00	-14.11	53.58	6.31	Peak	315	257
3	5350.00	46.30	54.00	-7.70	40.58	5.72	Average	315	257
4	5350.00	59.36	74.00	-14.64	53.64	5.72	Peak	315	257
5	10520.00	63.21	68.20	-4.99	48.54	14.67	Peak	100	83
6	15780.00	46.37	54.00	-7.63	30.51	15.86	Average	100	86
7	15780.00	58.52	74.00	-15.48	42.66	15.86	Peak	100	86

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

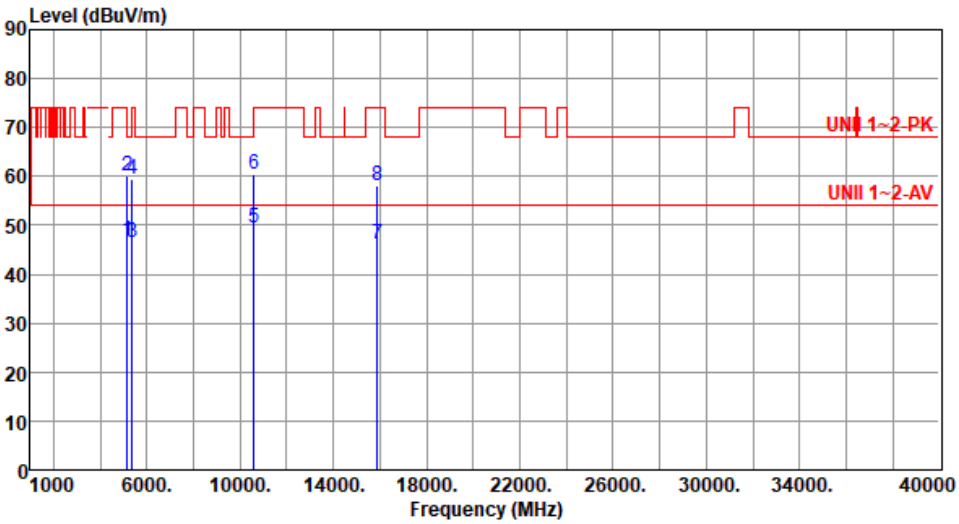


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.43	54.00	-7.57	40.12	6.31	Average	100	150
2	5150.00	59.60	74.00	-14.40	53.29	6.31	Peak	100	150
3	5350.00	45.93	54.00	-8.07	40.21	5.72	Average	100	150
4	5350.00	58.94	74.00	-15.06	53.22	5.72	Peak	100	150
5	10600.00	50.99	54.00	-3.01	36.27	14.72	Average	162	318
6	10600.00	63.60	74.00	-10.40	48.88	14.72	Peak	162	318
7	15900.00	46.55	54.00	-7.45	30.98	15.57	Average	100	322
8	15900.00	58.44	74.00	-15.56	42.87	15.57	Peak	100	322

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

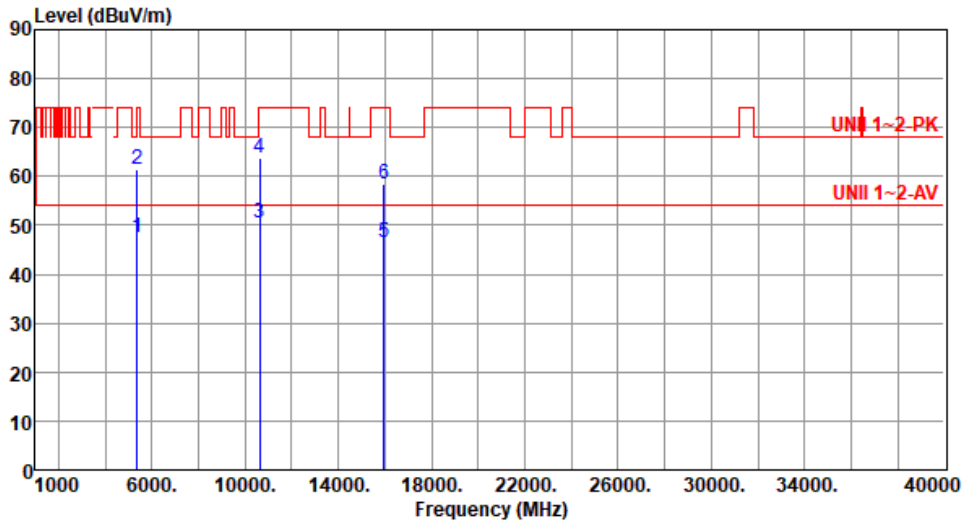


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.98	54.00	-7.02	40.67	6.31	Average	308	258
2	5150.00	59.99	74.00	-14.01	53.68	6.31	Peak	308	258
3	5350.00	46.35	54.00	-7.65	40.63	5.72	Average	308	258
4	5350.00	59.30	74.00	-14.70	53.58	5.72	Peak	308	258
5	10600.00	49.52	54.00	-4.48	34.80	14.72	Average	285	84
6	10600.00	60.53	74.00	-13.47	45.81	14.72	Peak	285	84
7	15900.00	46.18	54.00	-7.82	30.61	15.57	Average	100	87
8	15900.00	58.23	74.00	-15.77	42.66	15.57	Peak	100	87

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

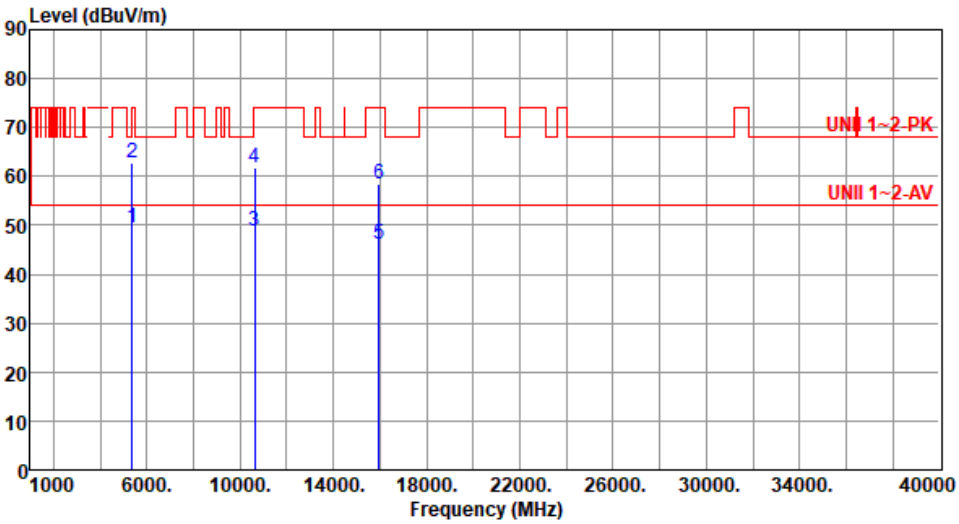


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	47.38	54.00	-6.62	41.66	5.72	Average	100	139
2	5350.00	61.57	74.00	-12.43	55.85	5.72	Peak	100	139
3	10640.00	50.63	54.00	-3.37	35.77	14.86	Average	169	306
4	10640.00	63.70	74.00	-10.30	48.84	14.86	Peak	169	306
5	15960.00	46.44	54.00	-7.56	30.79	15.65	Average	100	302
6	15960.00	58.45	74.00	-15.55	42.80	15.65	Peak	100	302

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

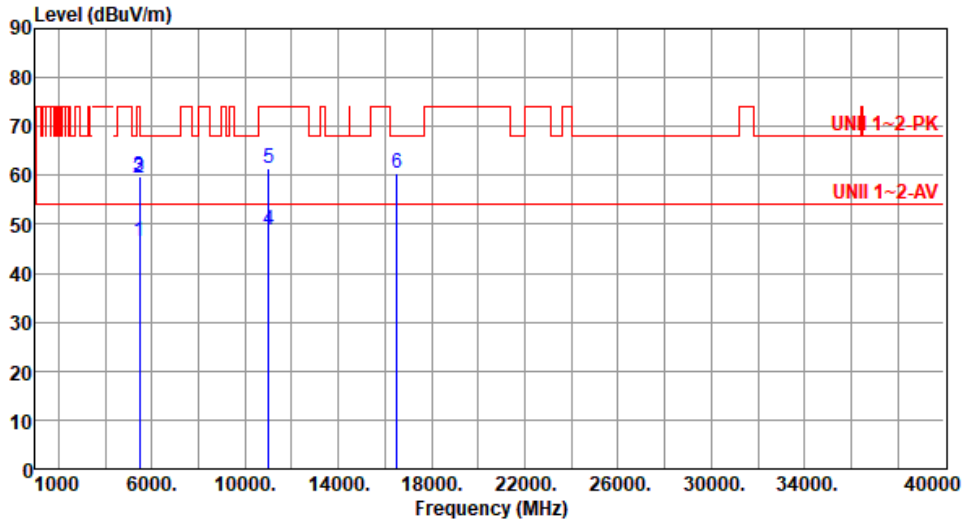


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	49.38	54.00	-4.62	43.66	5.72	Average	307	265
2	5350.00	62.72	74.00	-11.28	57.00	5.72	Peak	307	265
3	10640.00	48.74	54.00	-5.26	33.88	14.86	Average	102	90
4	10640.00	61.71	74.00	-12.29	46.85	14.86	Peak	102	90
5	15960.00	46.31	54.00	-7.69	30.66	15.65	Average	100	95
6	15960.00	58.33	74.00	-15.67	42.68	15.65	Peak	100	95

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

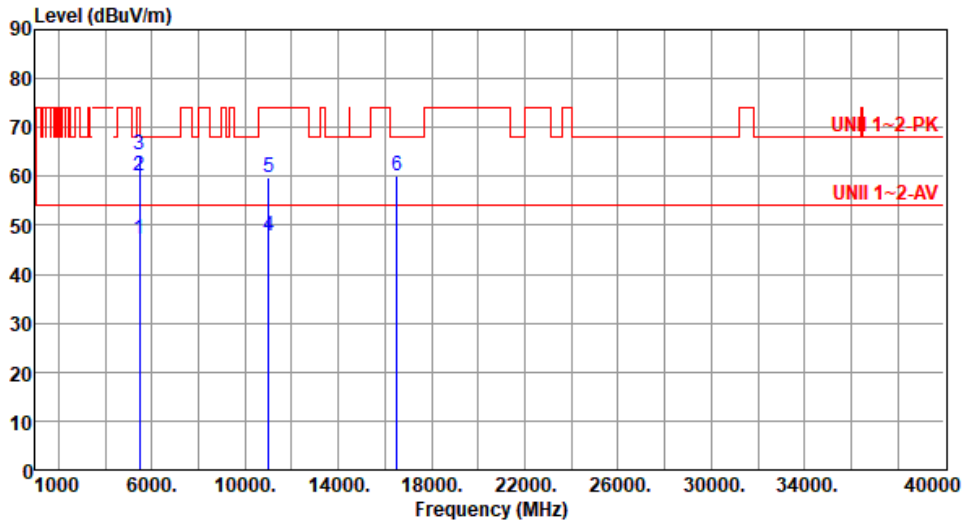


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.51	54.00	-7.49	40.21	6.30	Average	100	138
2	5460.00	59.53	74.00	-14.47	53.23	6.30	Peak	100	138
3	5470.00	59.62	68.20	-8.58	53.30	6.32	Peak	100	138
4	11000.00	48.93	54.00	-5.07	33.28	15.65	Average	175	309
5	11000.00	61.60	74.00	-12.40	45.95	15.65	Peak	175	309
6	16500.00	60.34	68.20	-7.86	42.88	17.46	Peak	100	310

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

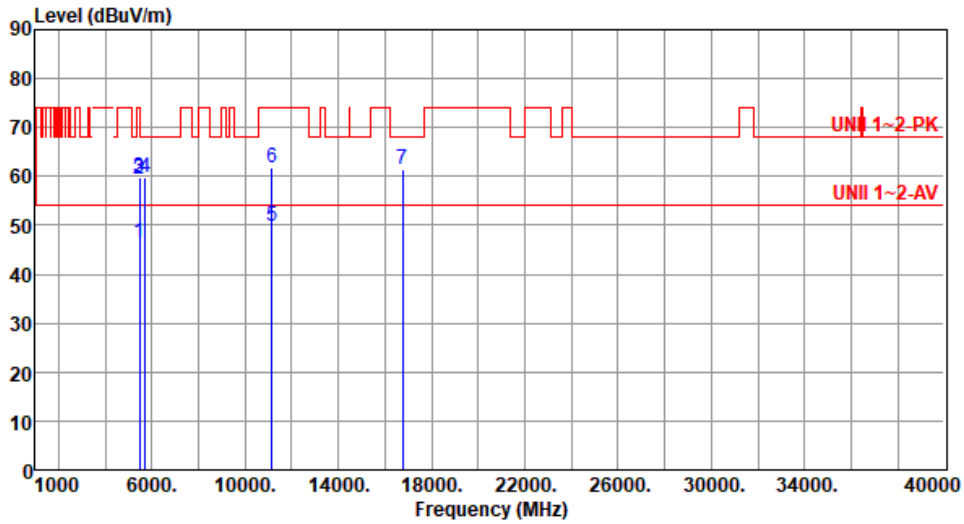


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.28	54.00	-6.72	40.98	6.30	Average	281	225
2	5460.00	60.25	74.00	-13.75	53.95	6.30	Peak	281	225
3	5470.00	64.27	68.20	-3.93	57.95	6.32	Peak	281	225
4	11000.00	47.83	54.00	-6.17	32.18	15.65	Average	100	338
5	11000.00	59.90	74.00	-14.10	44.25	15.65	Peak	100	338
6	16500.00	59.96	68.20	-8.24	42.50	17.46	Peak	100	350

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

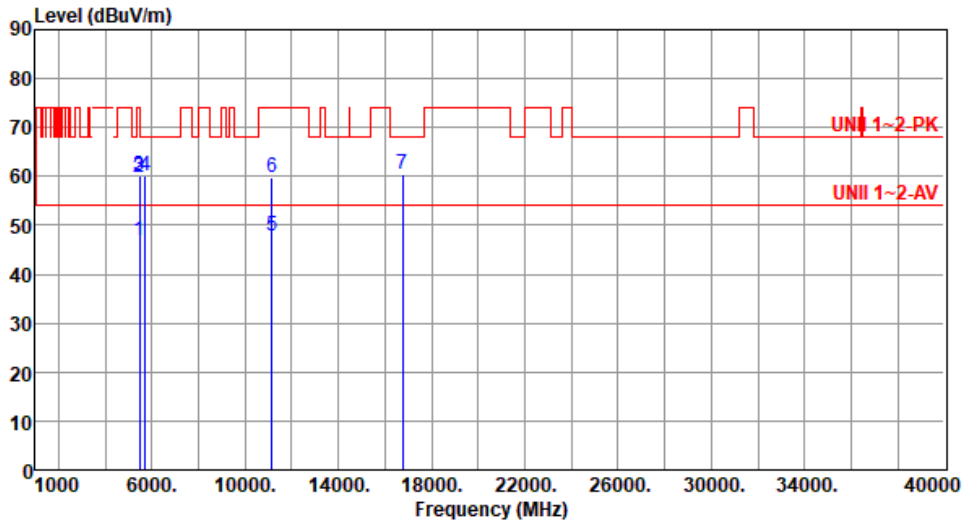


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.54	54.00	-7.46	40.24	6.30	Average	100	143
2	5460.00	59.54	74.00	-14.46	53.24	6.30	Peak	100	143
3	5470.00	59.62	68.20	-8.58	53.30	6.32	Peak	100	143
4	5725.00	59.91	68.20	-8.29	53.32	6.59	Peak	100	143
5	11160.00	49.96	54.00	-4.04	34.81	15.15	Average	163	327
6	11160.00	61.71	74.00	-12.29	46.56	15.15	Peak	163	327
7	16740.00	61.58	68.20	-6.62	43.88	17.70	Peak	100	325

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

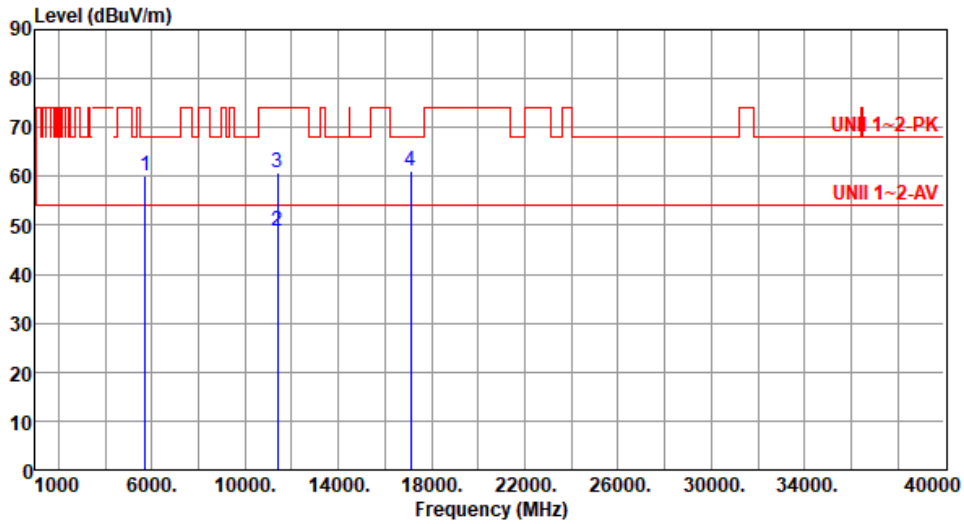


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.97	54.00	-7.03	40.67	6.30	Average	307	254
2	5460.00	59.92	74.00	-14.08	53.62	6.30	Peak	307	254
3	5470.00	60.01	68.20	-8.19	53.69	6.32	Peak	307	254
4	5725.00	60.27	68.20	-7.93	53.68	6.59	Peak	307	254
5	11160.00	47.80	54.00	-6.20	32.65	15.15	Average	100	346
6	11160.00	59.93	74.00	-14.07	44.78	15.15	Peak	100	346
7	16740.00	60.28	68.20	-7.92	42.58	17.70	Peak	100	355

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

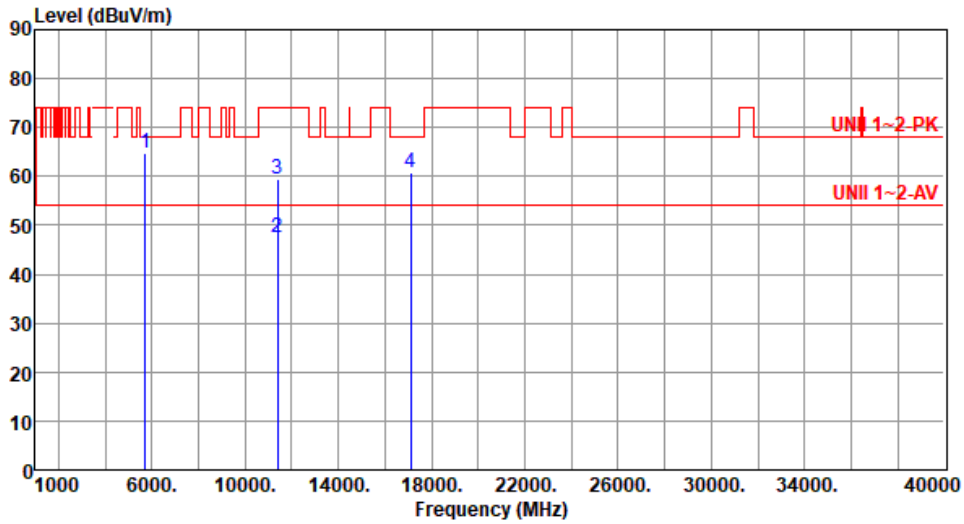


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	60.11	68.20	-8.09	53.52	6.59	Peak	100	135
2	11400.00	48.70	54.00	-5.30	33.55	15.15	Average	100	309
3	11400.00	60.93	74.00	-13.07	45.78	15.15	Peak	100	309
4	17100.00	61.00	68.20	-7.20	42.85	18.15	Peak	100	316

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

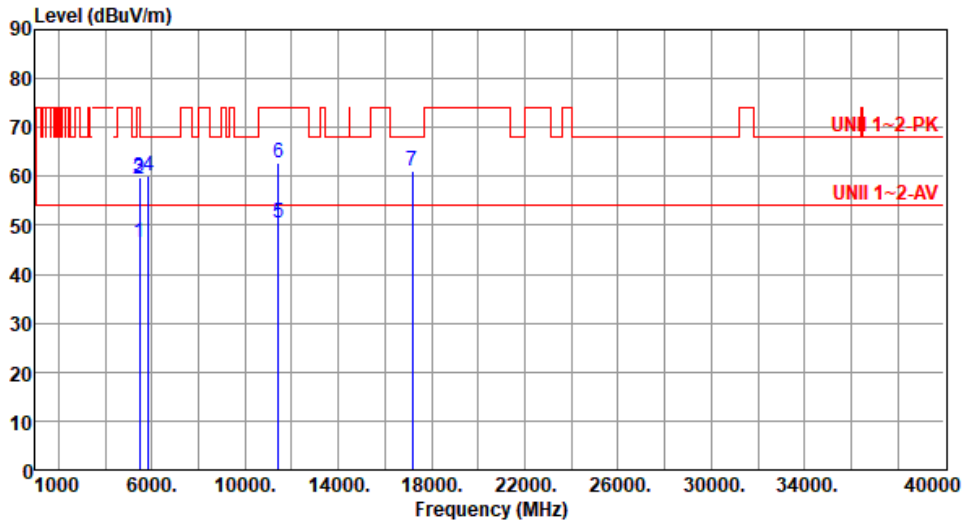


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	64.68	68.20	-3.52	58.09	6.59	Peak	279	264
2	11400.00	47.40	54.00	-6.60	32.25	15.15	Average	107	328
3	11400.00	59.40	74.00	-14.60	44.25	15.15	Peak	107	328
4	17100.00	60.78	68.20	-7.42	42.63	18.15	Peak	100	339

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

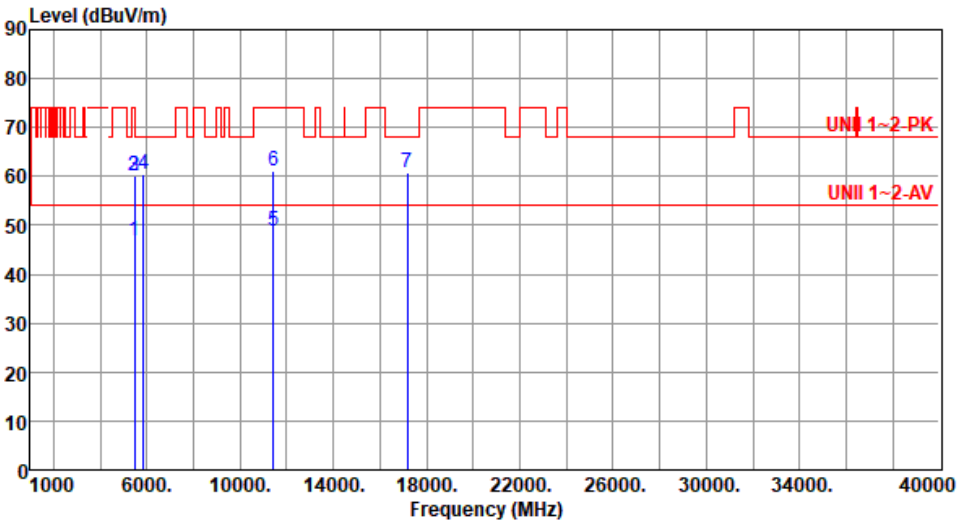


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.53	54.00	-7.47	40.23	6.30	Average	100	149
2	5460.00	59.55	74.00	-14.45	53.25	6.30	Peak	100	149
3	5470.00	59.65	68.20	-8.55	53.33	6.32	Peak	100	149
4	5850.00	60.05	68.20	-8.15	53.28	6.77	Peak	100	149
5	11440.00	50.46	54.00	-3.54	35.21	15.25	Average	168	304
6	11440.00	62.63	74.00	-11.37	47.38	15.25	Peak	168	304
7	17160.00	61.01	68.20	-7.19	42.86	18.15	Peak	100	309

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

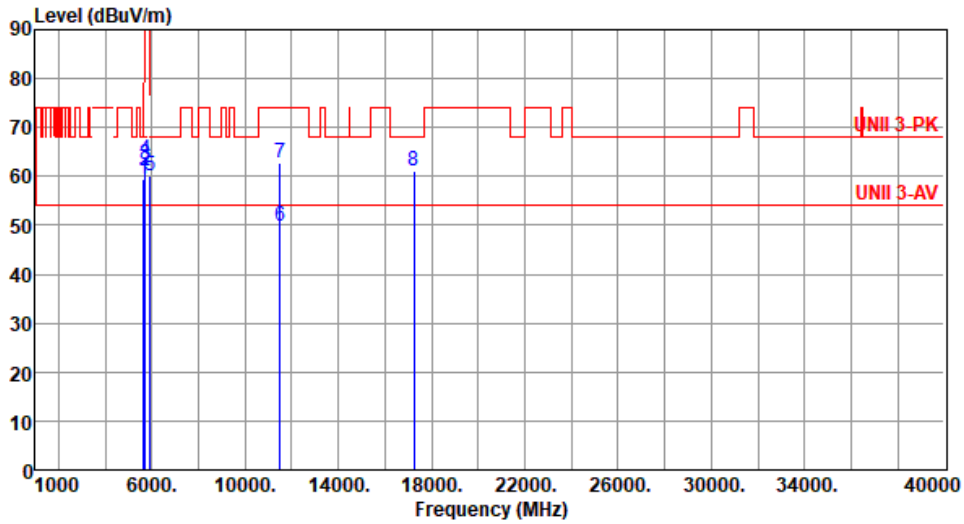


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.97	54.00	-7.03	40.67	6.30	Average	311	246
2	5460.00	59.95	74.00	-14.05	53.65	6.30	Peak	311	246
3	5470.00	60.01	68.20	-8.19	53.69	6.32	Peak	311	246
4	5850.00	60.44	68.20	-7.76	53.67	6.77	Peak	311	246
5	11440.00	48.91	54.00	-5.09	33.66	15.25	Average	109	338
6	11440.00	61.10	74.00	-12.90	45.85	15.25	Peak	109	338
7	17160.00	60.73	68.20	-7.47	42.58	18.15	Peak	100	345

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

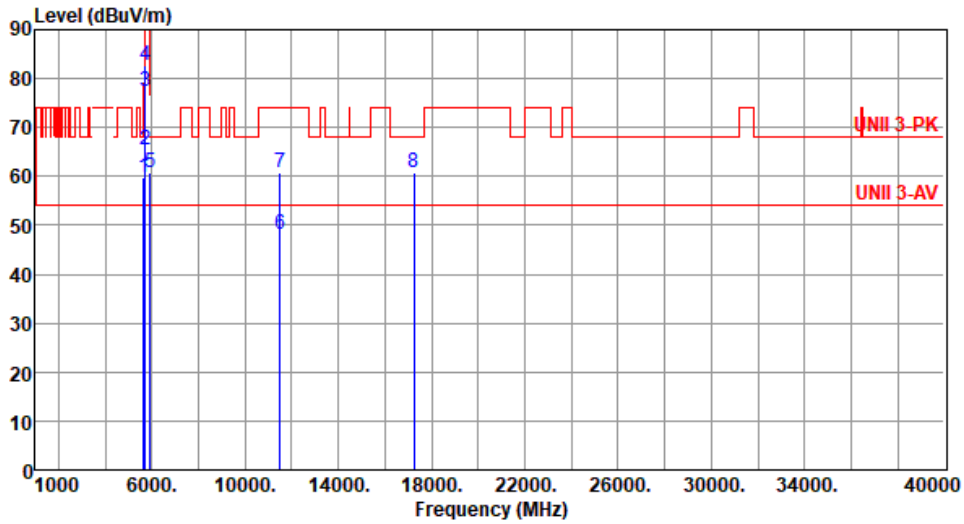


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.58	68.20	-8.62	53.26	6.32	Peak	100	144
2	5700.00	61.19	105.20	-44.01	54.66	6.53	Peak	100	144
3	5720.00	62.46	110.80	-48.34	55.88	6.58	Peak	100	144
4	5725.00	63.55	122.20	-58.65	56.96	6.59	Peak	100	144
5	5925.00	60.23	68.20	-7.97	53.20	7.03	Peak	100	144
6	11490.00	49.93	54.00	-4.07	34.55	15.38	Average	173	289
7	11490.00	62.72	74.00	-11.28	47.34	15.38	Peak	173	289
8	17235.00	61.14	68.20	-7.06	42.88	18.26	Peak	100	285

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

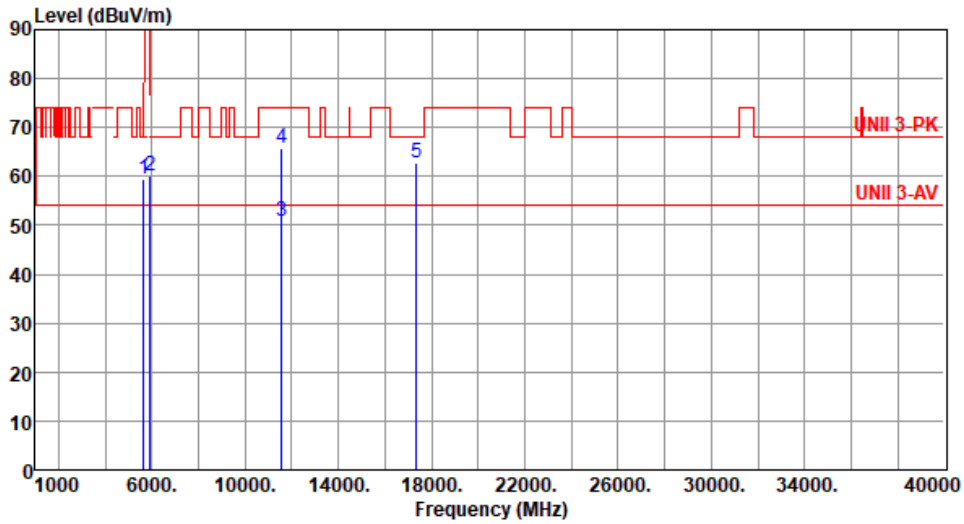


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.87	68.20	-8.33	53.55	6.32	Peak	277	265
2	5700.00	65.39	105.20	-39.81	58.86	6.53	Peak	277	265
3	5720.00	77.53	110.80	-33.27	70.95	6.58	Peak	277	265
4	5725.00	82.54	122.20	-39.66	75.95	6.59	Peak	277	265
5	5925.00	60.68	68.20	-7.52	53.65	7.03	Peak	277	265
6	11490.00	48.22	54.00	-5.78	32.84	15.38	Average	100	334
7	11490.00	60.90	74.00	-13.10	45.52	15.38	Peak	100	334
8	17235.00	60.83	68.20	-7.37	42.57	18.26	Peak	100	336

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):23 Humidity(%):66

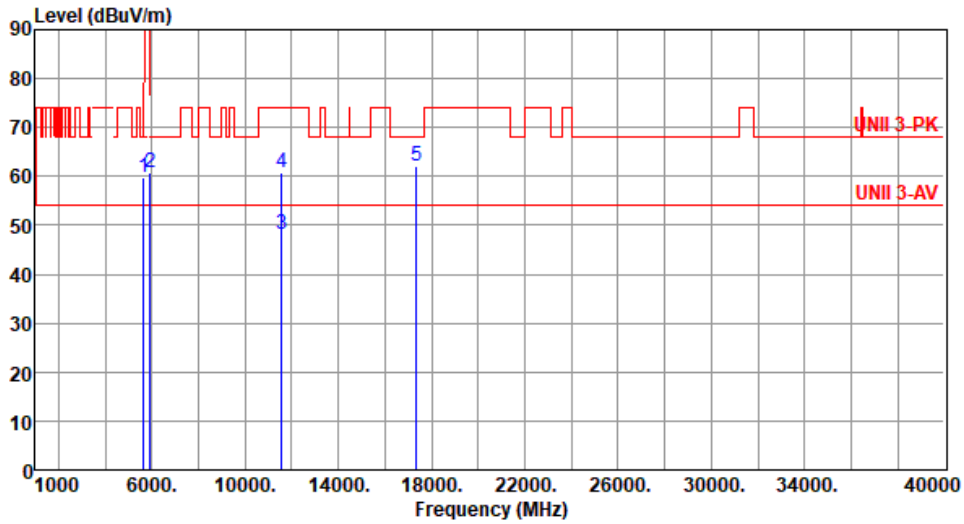


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.43	68.20	-8.77	53.11	6.32	Peak	100	139
2	5925.00	60.06	68.20	-8.14	53.03	7.03	Peak	100	139
3	11570.00	50.83	54.00	-3.17	35.45	15.38	Average	160	298
4	11570.00	65.72	74.00	-8.28	50.34	15.38	Peak	160	298
5	17355.00	62.84	68.20	-5.36	43.86	18.98	Peak	100	303

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

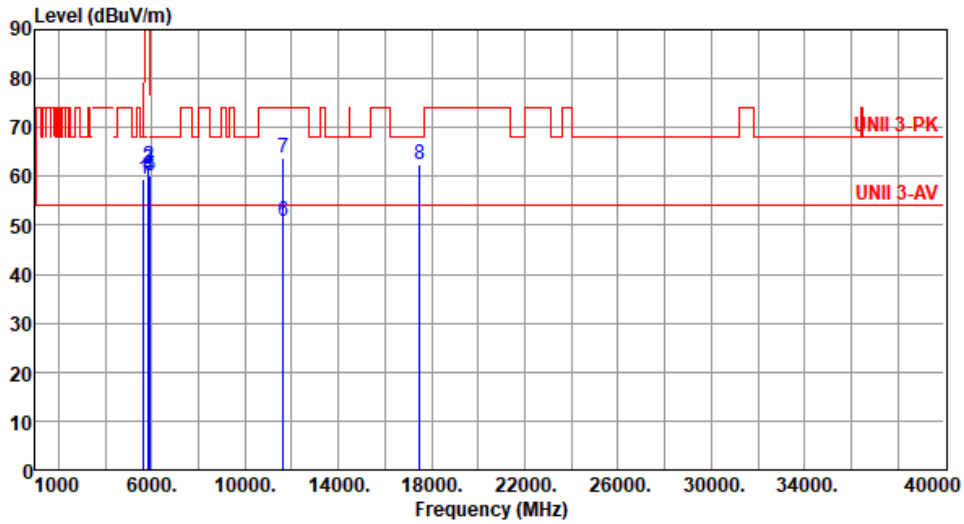


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.90	68.20	-8.30	53.58	6.32	Peak	287	269
2	5925.00	60.63	68.20	-7.57	53.60	7.03	Peak	287	269
3	11570.00	48.09	54.00	-5.91	32.71	15.38	Average	277	2
4	11570.00	60.89	74.00	-13.11	45.51	15.38	Peak	277	2
5	17355.00	61.98	68.20	-6.22	43.00	18.98	Peak	100	5

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

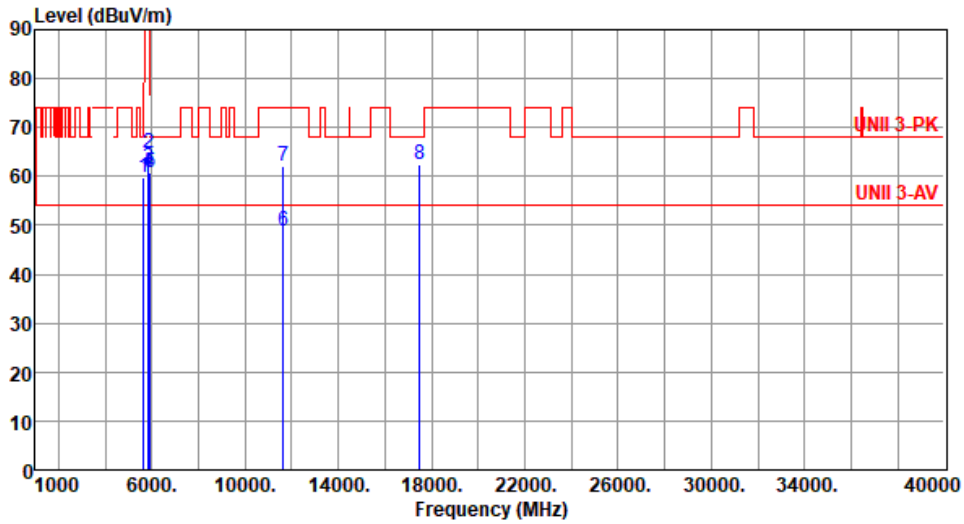


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.53	68.20	-8.67	53.21	6.32	Peak	100	146
2	5850.00	62.22	122.20	-59.98	55.45	6.77	Peak	100	146
3	5855.00	61.32	110.80	-49.48	54.52	6.80	Peak	100	146
4	5875.00	60.21	105.20	-44.99	53.33	6.88	Peak	100	146
5	5925.00	60.25	68.20	-7.95	53.22	7.03	Peak	100	146
6	11650.00	50.94	54.00	-3.06	35.77	15.17	Average	167	304
7	11650.00	63.83	74.00	-10.17	48.66	15.17	Peak	167	304
8	17475.00	62.60	68.20	-5.60	42.79	19.81	Peak	100	305

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69



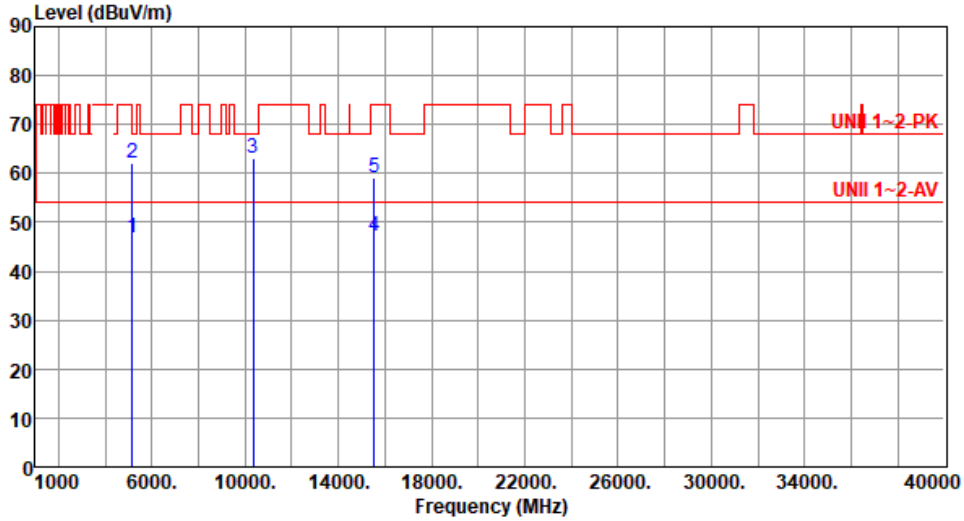
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.86	68.20	-8.34	53.54	6.32	Peak	367	271
2	5850.00	64.66	122.20	-57.54	57.89	6.77	Peak	367	271
3	5855.00	61.75	110.80	-49.05	54.95	6.80	Peak	367	271
4	5875.00	60.73	105.20	-44.47	53.85	6.88	Peak	367	271
5	5925.00	60.72	68.20	-7.48	53.69	7.03	Peak	367	271
6	11650.00	48.86	54.00	-5.14	33.69	15.17	Average	107	342
7	11650.00	62.02	74.00	-11.98	46.85	15.17	Peak	107	342
8	17475.00	62.42	68.20	-5.78	42.61	19.81	Peak	100	349

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

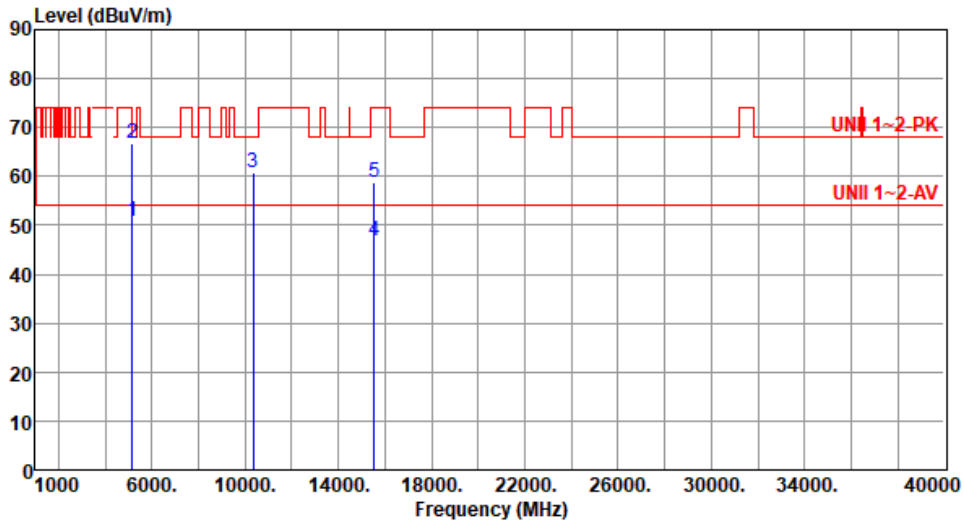


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.97	54.00	-7.03	40.66	6.31	Average	100	142
2	5150.00	62.19	74.00	-11.81	55.88	6.31	Peak	100	142
3	10360.00	63.16	68.20	-5.04	48.71	14.45	Peak	117	304
4	15540.00	47.17	54.00	-6.83	30.77	16.40	Average	100	309
5	15540.00	59.15	74.00	-14.85	42.75	16.40	Peak	100	309

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

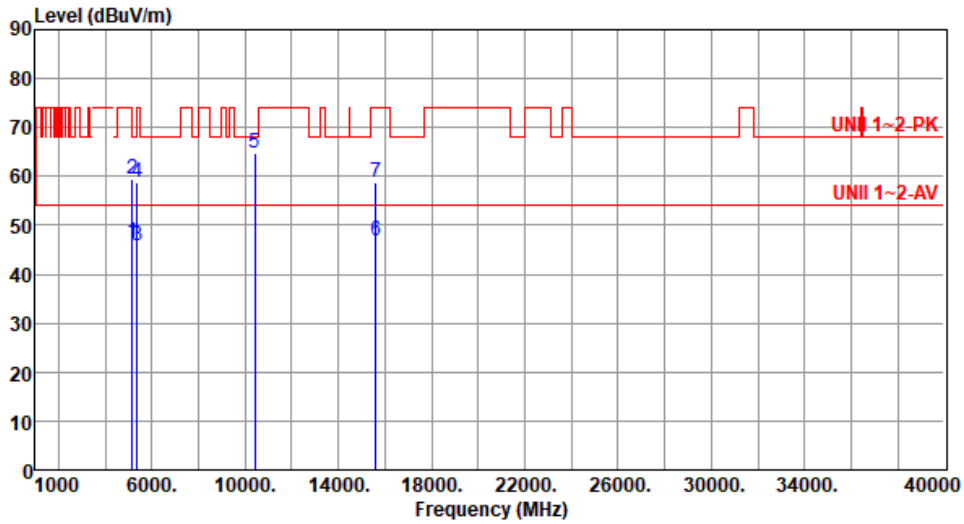


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.71	54.00	-3.29	44.40	6.31	Average	311	265
2	5150.00	66.64	74.00	-7.36	60.33	6.31	Peak	311	265
3	10360.00	60.93	68.20	-7.27	46.48	14.45	Peak	100	81
4	15540.00	46.84	54.00	-7.16	30.44	16.40	Average	100	85
5	15540.00	58.85	74.00	-15.15	42.45	16.40	Peak	100	85

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

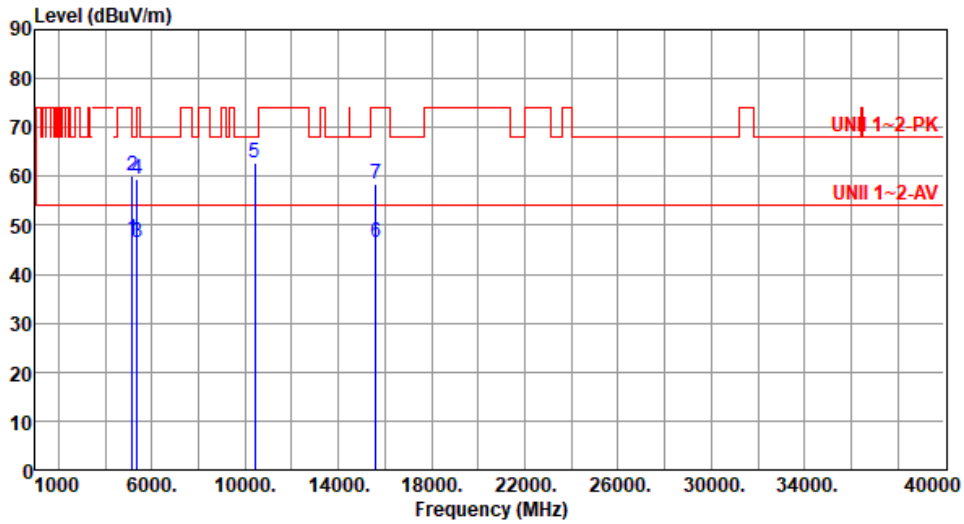


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.59	54.00	-7.41	40.28	6.31	Average	100	142
2	5150.00	59.53	74.00	-14.47	53.22	6.31	Peak	100	142
3	5350.00	45.96	54.00	-8.04	40.24	5.72	Average	100	142
4	5350.00	58.92	74.00	-15.08	53.20	5.72	Peak	100	142
5	10400.00	64.71	68.20	-3.49	50.23	14.48	Peak	225	301
6	15600.00	46.81	54.00	-7.19	30.87	15.94	Average	100	300
7	15600.00	58.72	74.00	-15.28	42.78	15.94	Peak	100	300

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

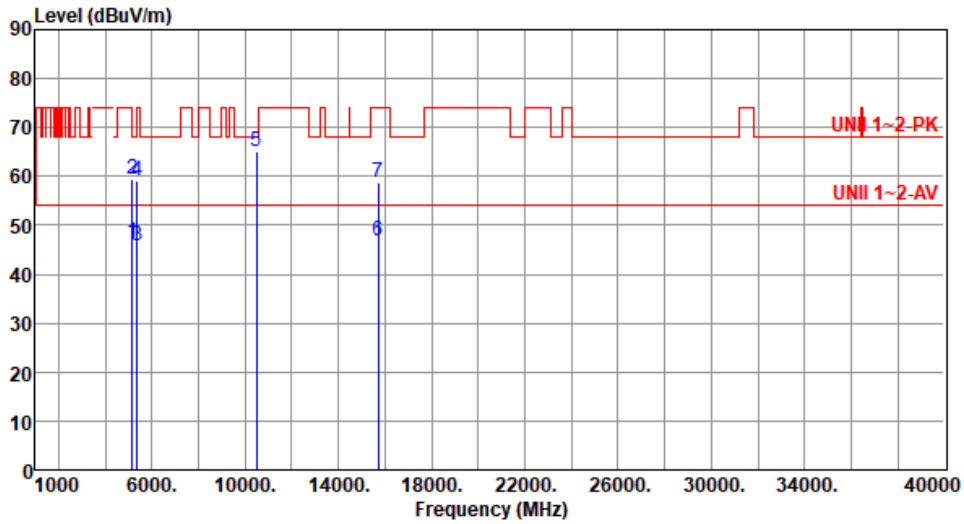


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.04	54.00	-6.96	40.73	6.31	Average	309	245
2	5150.00	60.09	74.00	-13.91	53.78	6.31	Peak	309	245
3	5350.00	46.46	54.00	-7.54	40.74	5.72	Average	309	245
4	5350.00	59.52	74.00	-14.48	53.80	5.72	Peak	309	245
5	10400.00	62.93	68.20	-5.27	48.45	14.48	Peak	110	85
6	15600.00	46.36	54.00	-7.64	30.42	15.94	Average	100	89
7	15600.00	58.41	74.00	-15.59	42.47	15.94	Peak	100	89

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

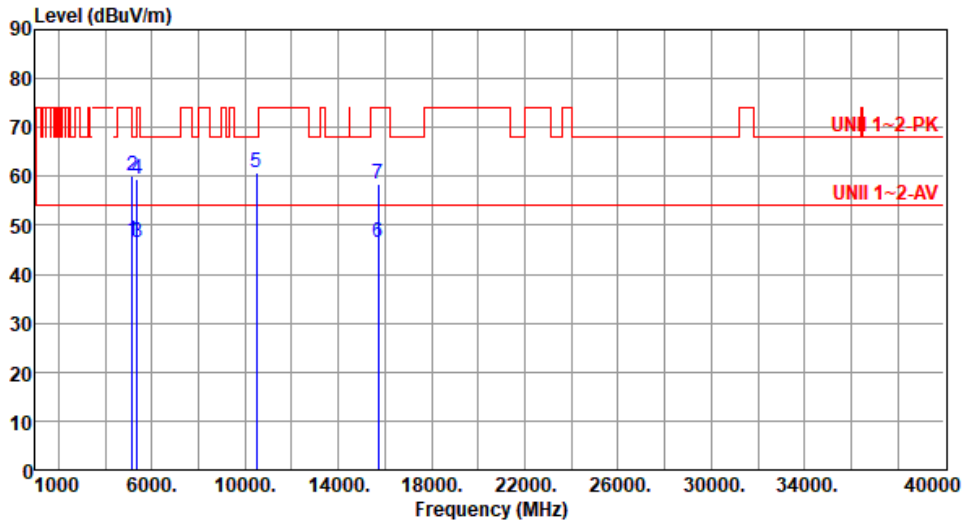


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.58	54.00	-7.42	40.27	6.31	Average	100	147
2	5150.00	59.55	74.00	-14.45	53.24	6.31	Peak	100	147
3	5350.00	45.98	54.00	-8.02	40.26	5.72	Average	100	147
4	5350.00	58.97	74.00	-15.03	53.25	5.72	Peak	100	147
5	10480.00	64.97	68.20	-3.23	50.34	14.63	Peak	223	303
6	15720.00	46.73	54.00	-7.27	30.78	15.95	Average	100	305
7	15720.00	58.73	74.00	-15.27	42.78	15.95	Peak	100	305

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

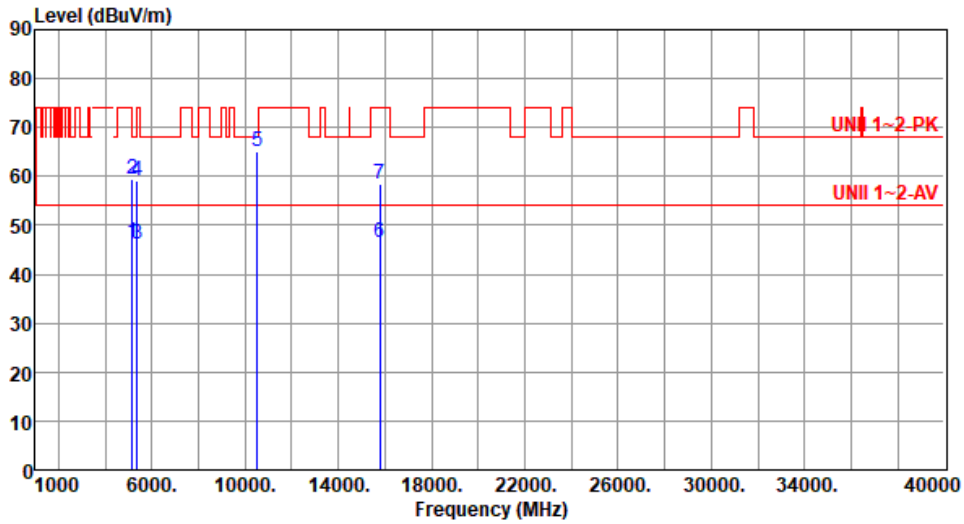


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.99	54.00	-7.01	40.68	6.31	Average	299	241
2	5150.00	59.97	74.00	-14.03	53.66	6.31	Peak	299	241
3	5350.00	46.46	54.00	-7.54	40.74	5.72	Average	299	241
4	5350.00	59.34	74.00	-14.66	53.62	5.72	Peak	299	241
5	10480.00	60.92	68.20	-7.28	46.29	14.63	Peak	100	83
6	15720.00	46.36	54.00	-7.64	30.41	15.95	Average	100	87
7	15720.00	58.44	74.00	-15.56	42.49	15.95	Peak	100	87

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

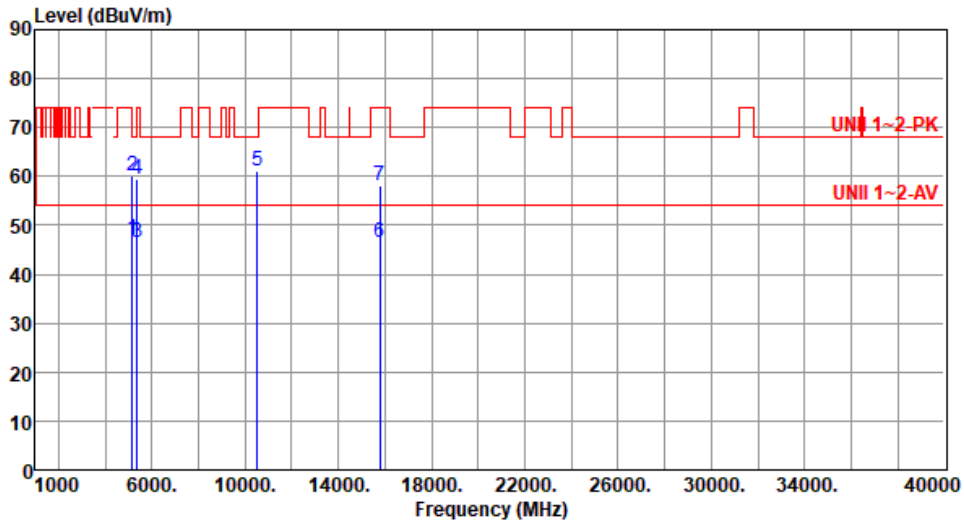


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.55	54.00	-7.45	40.24	6.31	Average	100	142
2	5150.00	59.59	74.00	-14.41	53.28	6.31	Peak	100	142
3	5350.00	46.05	54.00	-7.95	40.33	5.72	Average	100	142
4	5350.00	59.04	74.00	-14.96	53.32	5.72	Peak	100	142
5	10520.00	65.11	68.20	-3.09	50.44	14.67	Peak	174	314
6	15780.00	46.65	54.00	-7.35	30.79	15.86	Average	100	318
7	15780.00	58.60	74.00	-15.40	42.74	15.86	Peak	100	318

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

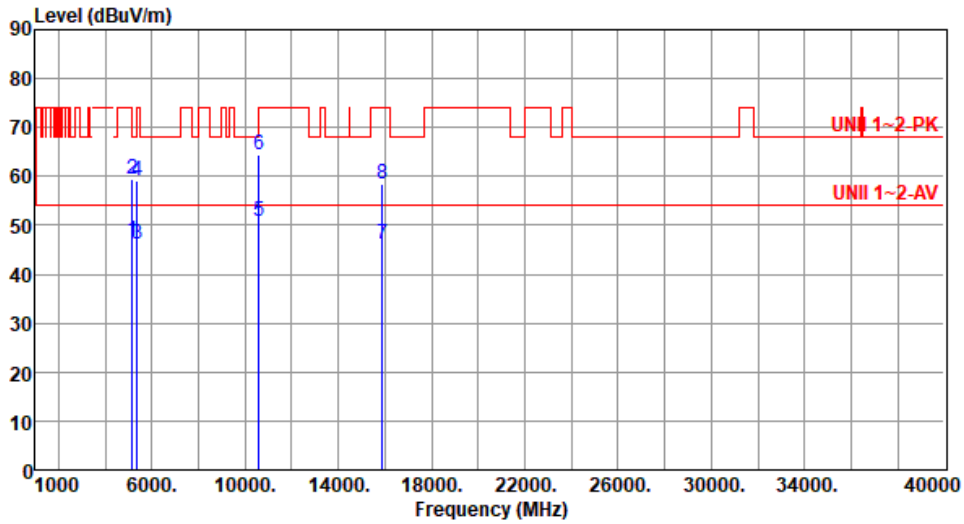


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.02	54.00	-6.98	40.71	6.31	Average	303	241
2	5150.00	60.00	74.00	-14.00	53.69	6.31	Peak	303	241
3	5350.00	46.43	54.00	-7.57	40.71	5.72	Average	303	241
4	5350.00	59.47	74.00	-14.53	53.75	5.72	Peak	303	241
5	10520.00	61.15	68.20	-7.05	46.48	14.67	Peak	100	86
6	15780.00	46.34	54.00	-7.66	30.48	15.86	Average	100	89
7	15780.00	58.27	74.00	-15.73	42.41	15.86	Peak	100	89

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

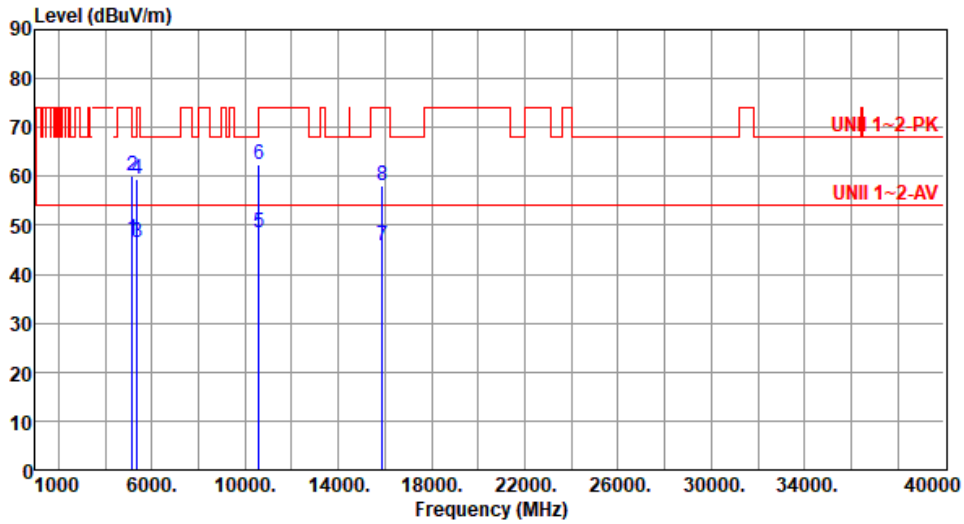


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.68	54.00	-7.32	40.37	6.31	Average	100	136
2	5150.00	59.60	74.00	-14.40	53.29	6.31	Peak	100	136
3	5350.00	46.05	54.00	-7.95	40.33	5.72	Average	100	136
4	5350.00	59.08	74.00	-14.92	53.36	5.72	Peak	100	136
5	10600.00	50.67	54.00	-3.33	35.95	14.72	Average	176	313
6	10600.00	64.49	74.00	-9.51	49.77	14.72	Peak	176	313
7	15900.00	46.32	54.00	-7.68	30.75	15.57	Average	100	325
8	15900.00	58.44	74.00	-15.56	42.87	15.57	Peak	100	325

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

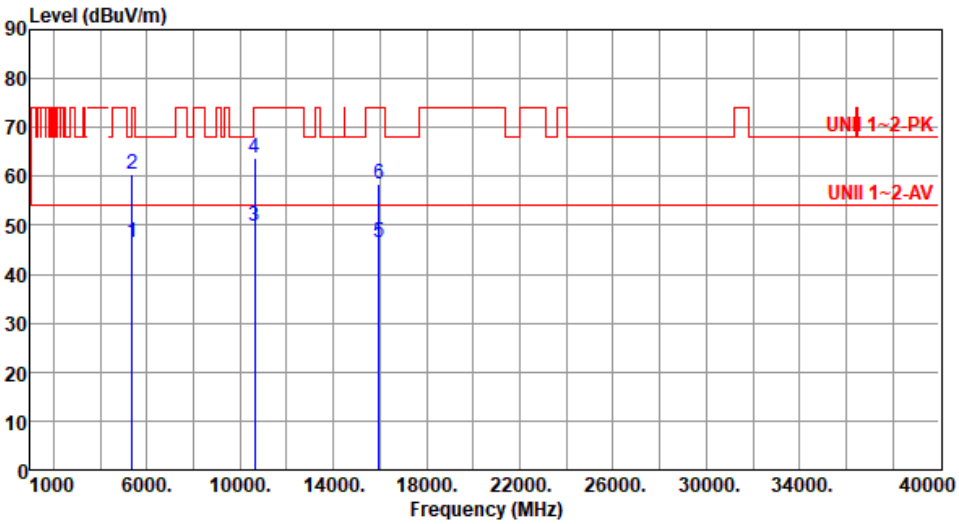


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.06	54.00	-6.94	40.75	6.31	Average	301	250
2	5150.00	60.09	74.00	-13.91	53.78	6.31	Peak	301	250
3	5350.00	46.46	54.00	-7.54	40.74	5.72	Average	301	250
4	5350.00	59.41	74.00	-14.59	53.69	5.72	Peak	301	250
5	10600.00	48.38	54.00	-5.62	33.66	14.72	Average	100	81
6	10600.00	62.30	74.00	-11.70	47.58	14.72	Peak	100	81
7	15900.00	45.98	54.00	-8.02	30.41	15.57	Average	100	86
8	15900.00	58.05	74.00	-15.95	42.48	15.57	Peak	100	86

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

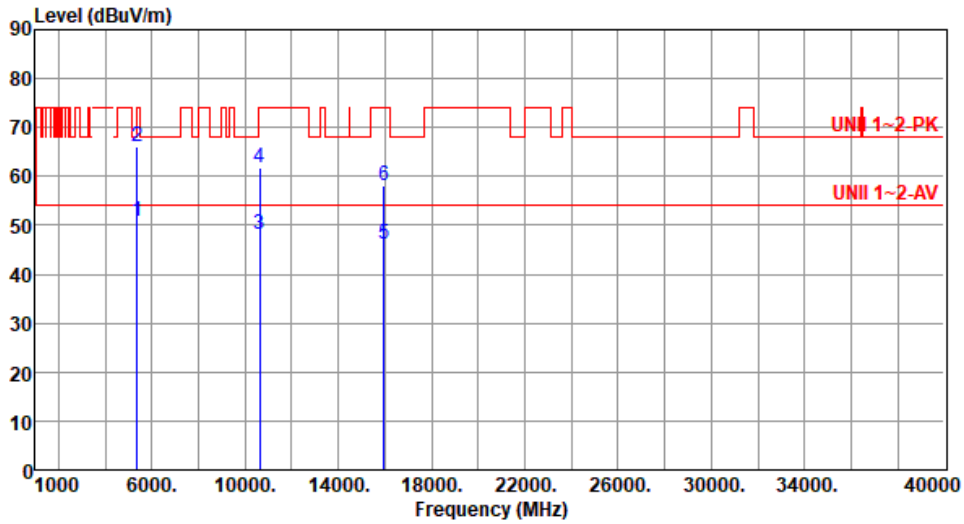


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	46.60	54.00	-7.40	40.88	5.72	Average	100	141
2	5350.00	60.60	74.00	-13.40	54.88	5.72	Peak	100	141
3	10640.00	49.85	54.00	-4.15	34.99	14.86	Average	174	309
4	10640.00	63.75	74.00	-10.25	48.89	14.86	Peak	174	309
5	15960.00	46.42	54.00	-7.58	30.77	15.65	Average	100	314
6	15960.00	58.41	74.00	-15.59	42.76	15.65	Peak	100	314

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

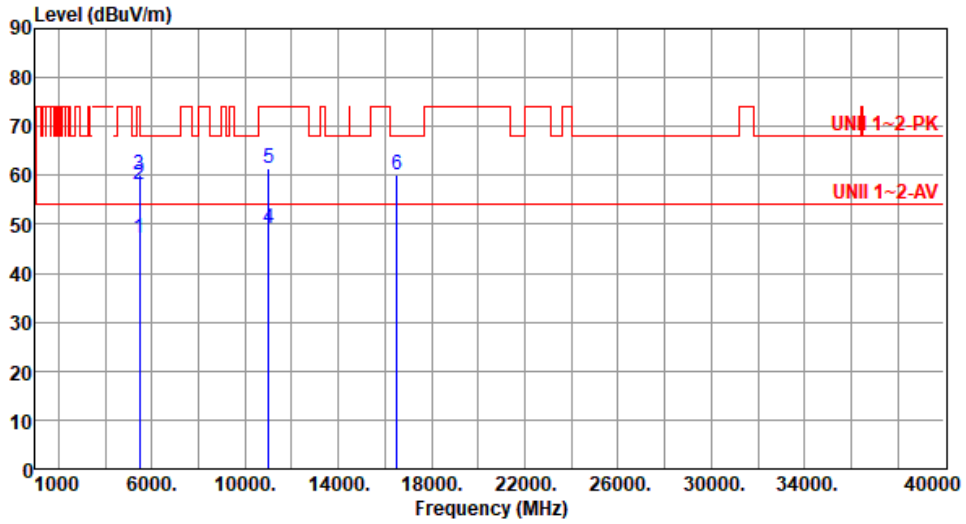


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	50.90	54.00	-3.10	45.18	5.72	Average	280	265
2	5350.00	66.14	74.00	-7.86	60.42	5.72	Peak	280	265
3	10640.00	48.04	54.00	-5.96	33.18	14.86	Average	100	78
4	10640.00	61.84	74.00	-12.16	46.98	14.86	Peak	100	78
5	15960.00	46.06	54.00	-7.94	30.41	15.65	Average	100	89
6	15960.00	58.07	74.00	-15.93	42.42	15.65	Peak	100	89

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

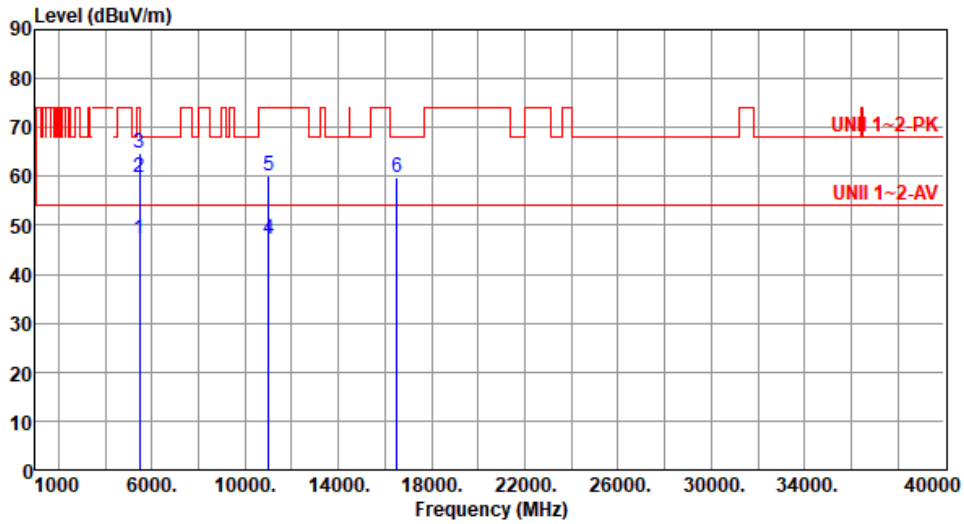


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.04	54.00	-6.96	40.74	6.30	Average	100	129
2	5460.00	57.95	74.00	-16.05	51.65	6.30	Peak	100	129
3	5470.00	60.27	68.20	-7.93	53.95	6.32	Peak	100	129
4	11000.00	49.20	54.00	-4.80	33.55	15.65	Average	179	312
5	11000.00	61.53	74.00	-12.47	45.88	15.65	Peak	179	312
6	16500.00	60.20	68.20	-8.00	42.74	17.46	Peak	100	319

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

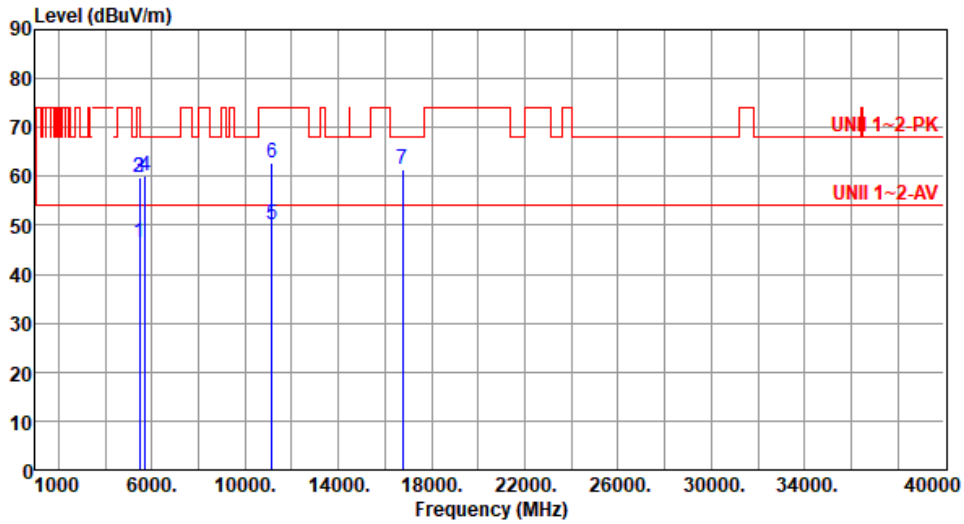


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.06	54.00	-6.94	40.76	6.30	Average	321	224
2	5460.00	59.92	74.00	-14.08	53.62	6.30	Peak	321	224
3	5470.00	64.67	68.20	-3.53	58.35	6.32	Peak	321	224
4	11000.00	47.10	54.00	-6.90	31.45	15.65	Average	100	355
5	11000.00	60.20	74.00	-13.80	44.55	15.65	Peak	100	355
6	16500.00	59.86	68.20	-8.34	42.40	17.46	Peak	100	359

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

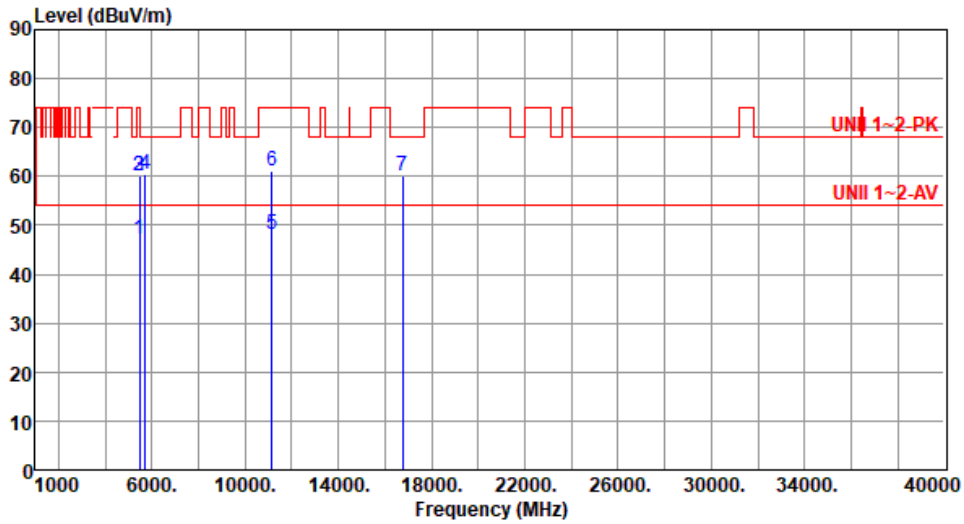


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.61	54.00	-7.39	40.31	6.30	Average	100	143
2	5460.00	59.65	74.00	-14.35	53.35	6.30	Peak	100	143
3	5470.00	59.71	68.20	-8.49	53.39	6.32	Peak	100	143
4	5725.00	59.99	68.20	-8.21	53.40	6.59	Peak	100	143
5	11160.00	50.10	54.00	-3.90	34.95	15.15	Average	157	334
6	11160.00	62.65	74.00	-11.35	47.50	15.15	Peak	157	334
7	16740.00	61.50	68.20	-6.70	43.80	17.70	Peak	100	332

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

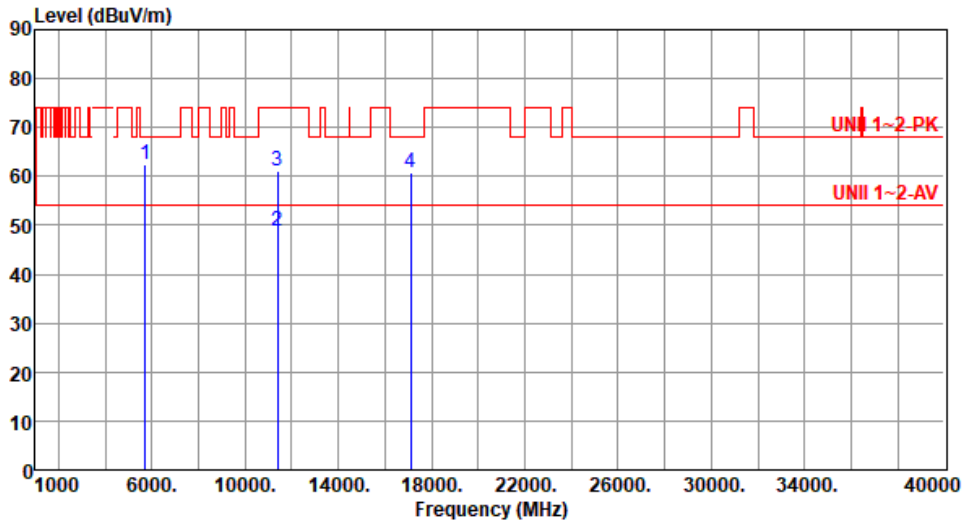


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.07	54.00	-6.93	40.77	6.30	Average	308	243
2	5460.00	59.98	74.00	-14.02	53.68	6.30	Peak	308	243
3	5470.00	60.03	68.20	-8.17	53.71	6.32	Peak	308	243
4	5725.00	60.39	68.20	-7.81	53.80	6.59	Peak	308	243
5	11160.00	47.99	54.00	-6.01	32.84	15.15	Average	104	341
6	11160.00	61.00	74.00	-13.00	45.85	15.15	Peak	104	341
7	16740.00	60.15	68.20	-8.05	42.45	17.70	Peak	100	350

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

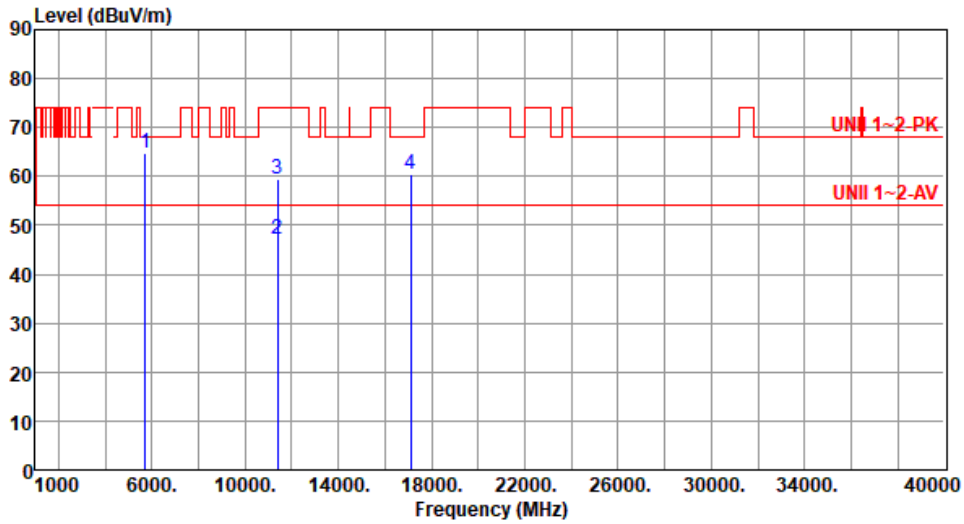


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	62.47	68.20	-5.73	55.88	6.59	Peak	100	150
2	11400.00	48.92	54.00	-5.08	33.77	15.15	Average	171	309
3	11400.00	61.00	74.00	-13.00	45.85	15.15	Peak	171	309
4	17100.00	60.90	68.20	-7.30	42.75	18.15	Peak	100	302

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

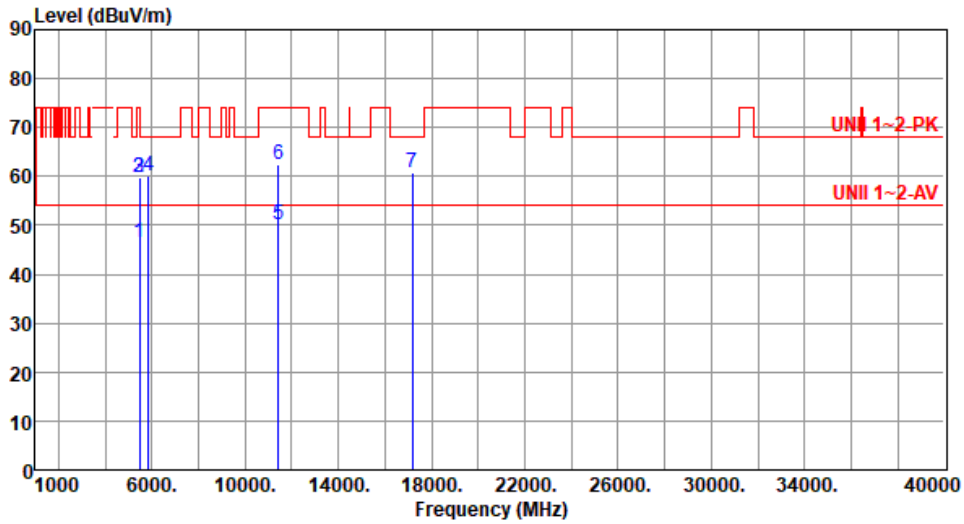


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	64.79	68.20	-3.41	58.20	6.59	Peak	305	265
2	11400.00	47.30	54.00	-6.70	32.15	15.15	Average	100	341
3	11400.00	59.40	74.00	-14.60	44.25	15.15	Peak	100	341
4	17100.00	60.57	68.20	-7.63	42.42	18.15	Peak	100	348

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5720
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

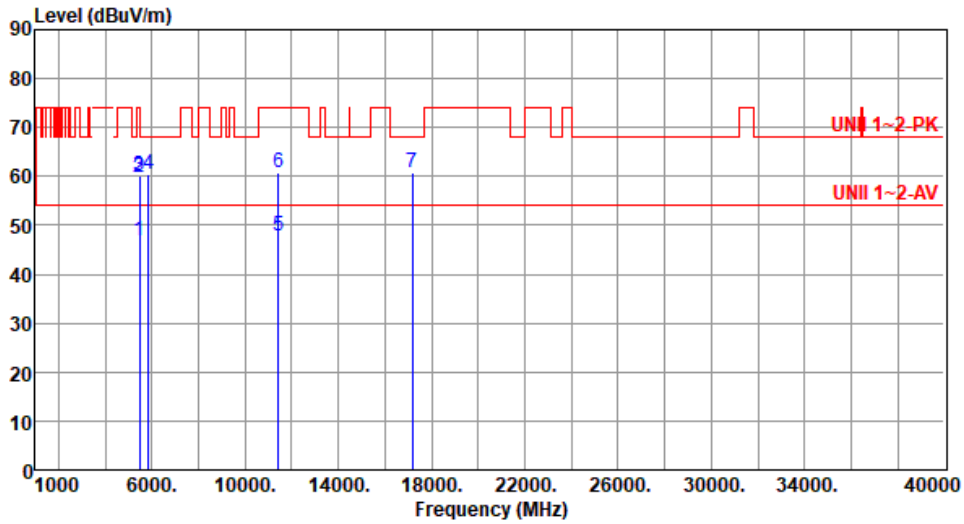


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.65	54.00	-7.35	40.35	6.30	Average	100	143
2	5460.00	59.65	74.00	-14.35	53.35	6.30	Peak	100	143
3	5470.00	59.77	68.20	-8.43	53.45	6.32	Peak	100	145
4	5850.00	60.23	68.20	-7.97	53.46	6.77	Peak	100	145
5	11440.00	50.24	54.00	-3.76	34.99	15.25	Average	170	309
6	11440.00	62.40	74.00	-11.60	47.15	15.25	Peak	170	309
7	17160.00	60.87	68.20	-7.33	42.72	18.15	Peak	100	318

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5720
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

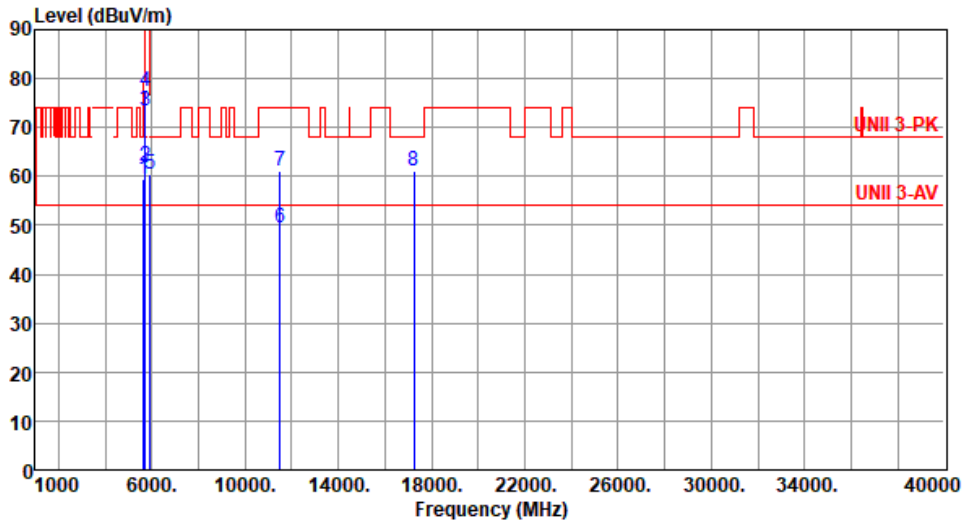


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.94	54.00	-7.06	40.64	6.30	Average	310	239
2	5460.00	59.88	74.00	-14.12	53.58	6.30	Peak	310	239
3	5470.00	59.97	68.20	-8.23	53.65	6.32	Peak	310	239
4	5850.00	60.39	68.20	-7.81	53.62	6.77	Peak	310	239
5	11440.00	47.79	54.00	-6.21	32.54	15.25	Average	100	357
6	11440.00	60.77	74.00	-13.23	45.52	15.25	Peak	100	357
7	17160.00	60.63	68.20	-7.57	42.48	18.15	Peak	100	352

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

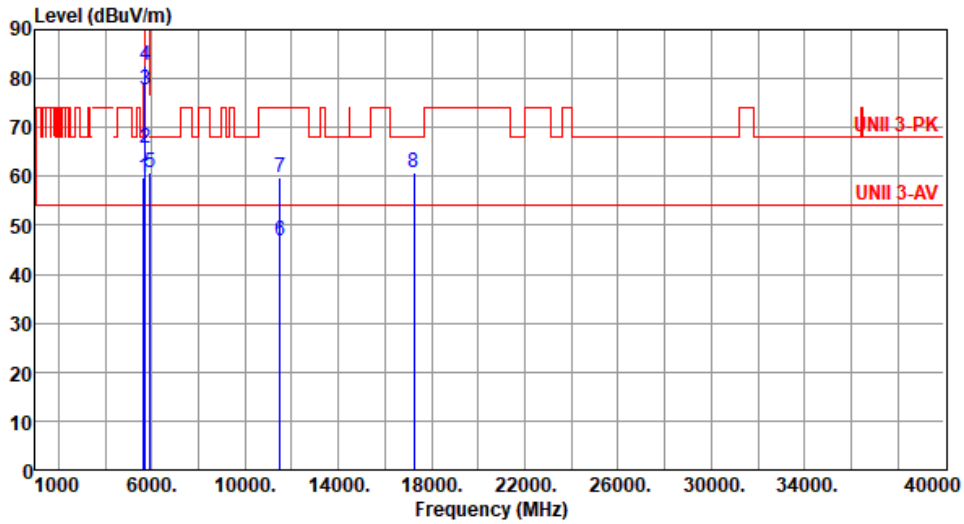


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.57	68.20	-8.63	53.25	6.32	Peak	100	150
2	5700.00	62.08	105.20	-43.12	55.55	6.53	Peak	100	150
3	5720.00	73.24	110.80	-37.56	66.66	6.58	Peak	100	150
4	5725.00	77.44	122.20	-44.76	70.85	6.59	Peak	100	150
5	5925.00	60.28	68.20	-7.92	53.25	7.03	Peak	100	150
6	11490.00	49.35	54.00	-4.65	33.97	15.38	Average	175	292
7	11490.00	61.24	74.00	-12.76	45.86	15.38	Peak	175	292
8	17235.00	60.99	68.20	-7.21	42.73	18.26	Peak	100	300

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

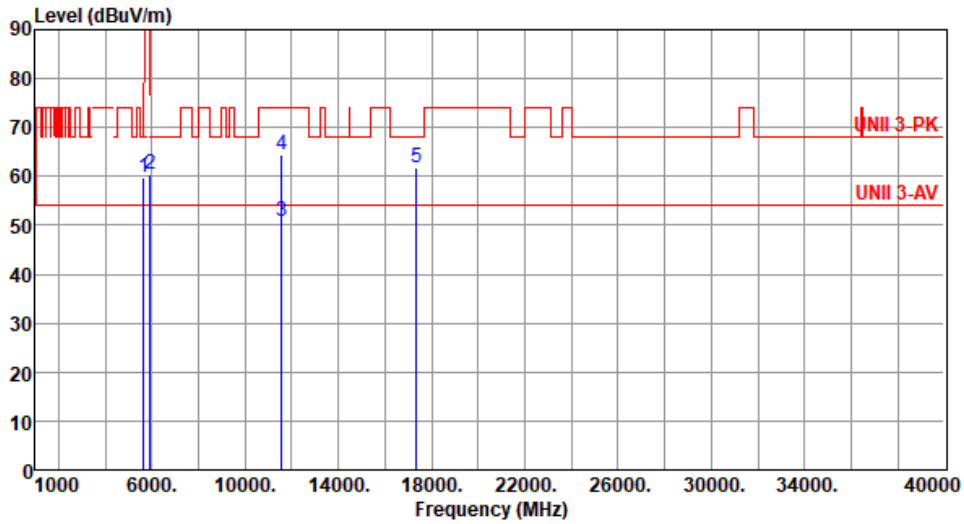


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.94	68.20	-8.26	53.62	6.32	Peak	280	271
2	5700.00	65.75	105.20	-39.45	59.22	6.53	Peak	280	271
3	5720.00	77.83	110.80	-32.97	71.25	6.58	Peak	280	271
4	5725.00	82.81	122.20	-39.39	76.22	6.59	Peak	280	271
5	5925.00	60.73	68.20	-7.47	53.70	7.03	Peak	280	271
6	11490.00	46.92	54.00	-7.08	31.54	15.38	Average	100	352
7	11490.00	59.92	74.00	-14.08	44.54	15.38	Peak	100	352
8	17235.00	60.73	68.20	-7.47	42.47	18.26	Peak	100	344

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

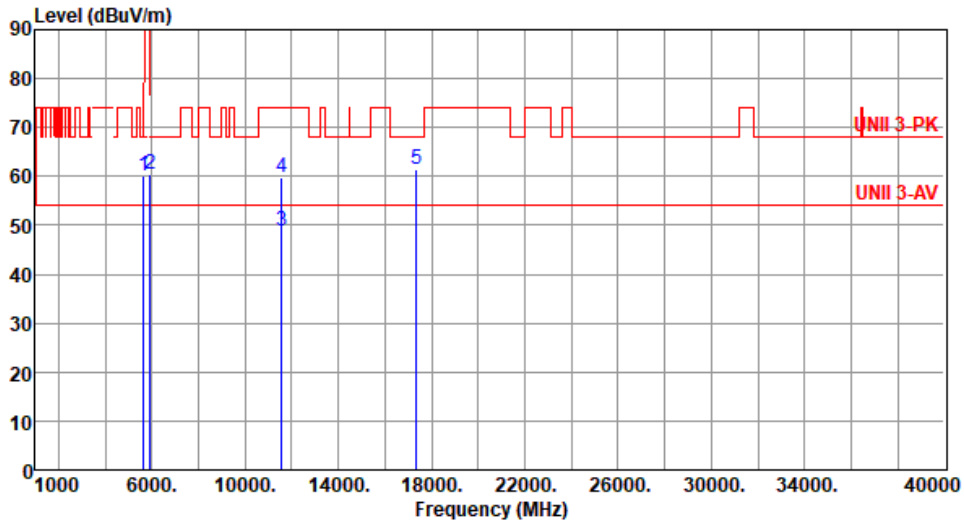


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.71	68.20	-8.49	53.39	6.32	Peak	100	143
2	5925.00	60.40	68.20	-7.80	53.37	7.03	Peak	100	143
3	11570.00	50.83	54.00	-3.17	35.45	15.38	Average	162	295
4	11570.00	64.38	74.00	-9.62	49.00	15.38	Peak	162	295
5	17355.00	61.87	68.20	-6.33	42.89	18.98	Peak	100	300

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

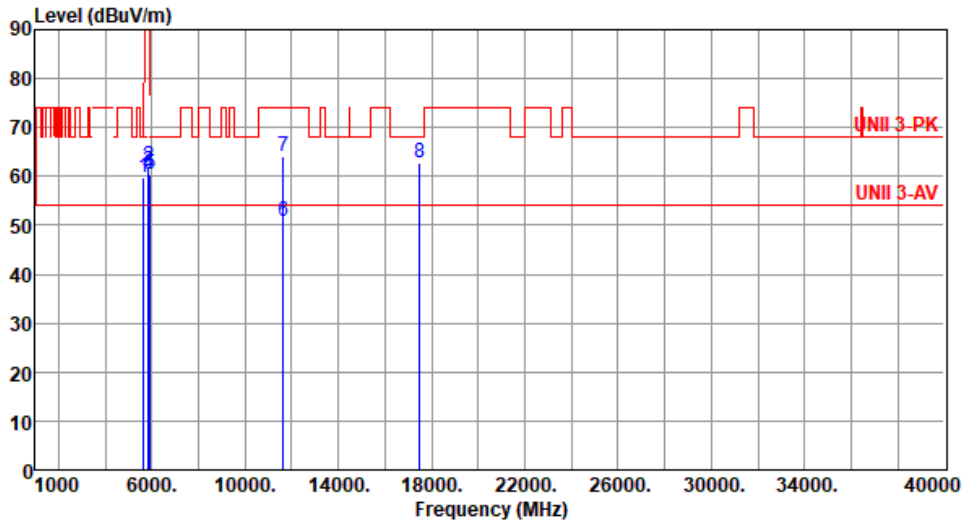


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.01	68.20	-8.19	53.69	6.32	Peak	274	272
2	5925.00	60.55	68.20	-7.65	53.52	7.03	Peak	274	272
3	11570.00	48.94	54.00	-5.06	33.56	15.38	Average	100	358
4	11570.00	59.91	74.00	-14.09	44.53	15.38	Peak	100	358
5	17355.00	61.51	68.20	-6.69	42.53	18.98	Peak	100	352

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69

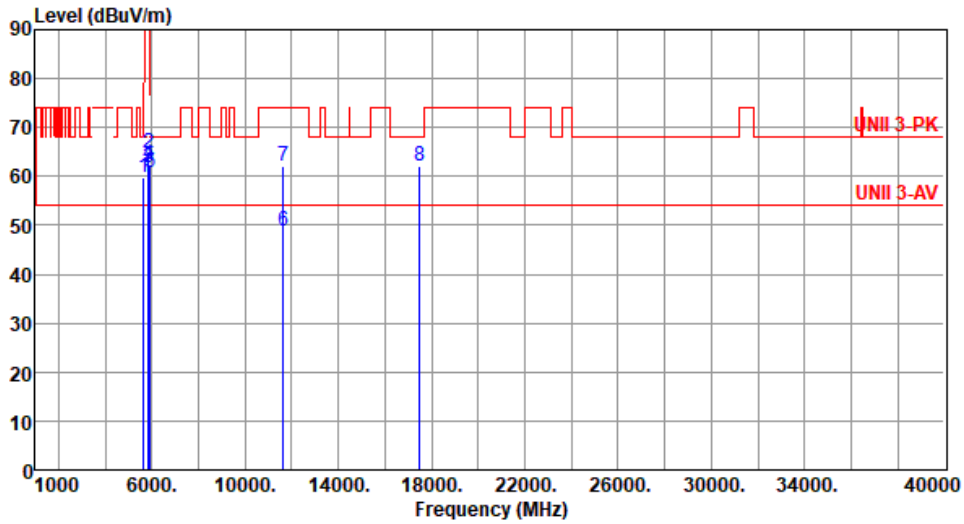


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.69	68.20	-8.51	53.37	6.32	Peak	100	132
2	5850.00	62.02	122.20	-60.18	55.25	6.77	Peak	100	132
3	5855.00	61.16	110.80	-49.64	54.36	6.80	Peak	100	132
4	5875.00	60.36	105.20	-44.84	53.48	6.88	Peak	100	132
5	5925.00	60.43	68.20	-7.77	53.40	7.03	Peak	100	132
6	11650.00	50.85	54.00	-3.15	35.68	15.17	Average	167	308
7	11650.00	64.01	74.00	-9.99	48.84	15.17	Peak	167	308
8	17475.00	62.62	68.20	-5.58	42.81	19.81	Peak	100	305

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):22 Humidity(%):69



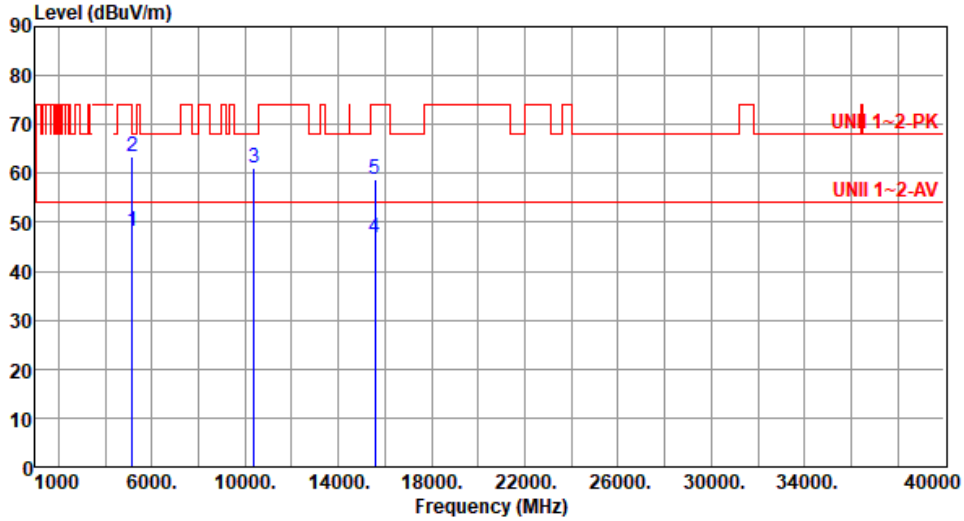
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.91	68.20	-8.29	53.59	6.32	Peak	352	275
2	5850.00	64.75	122.20	-57.45	57.98	6.77	Peak	352	275
3	5855.00	61.65	110.80	-49.15	54.85	6.80	Peak	352	275
4	5875.00	62.43	105.20	-42.77	55.55	6.88	Peak	352	275
5	5925.00	60.78	68.20	-7.42	53.75	7.03	Peak	352	275
6	11650.00	48.77	54.00	-5.23	33.60	15.17	Average	100	358
7	11650.00	62.02	74.00	-11.98	46.85	15.17	Peak	100	358
8	17475.00	62.27	68.20	-5.93	42.46	19.81	Peak	100	352

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

Modulation	HT40	Test Freq. (MHz)	5190
Polarization	Horizontal		

Test By :Akun Chung Temperature(°C):21 Humidity(%):69

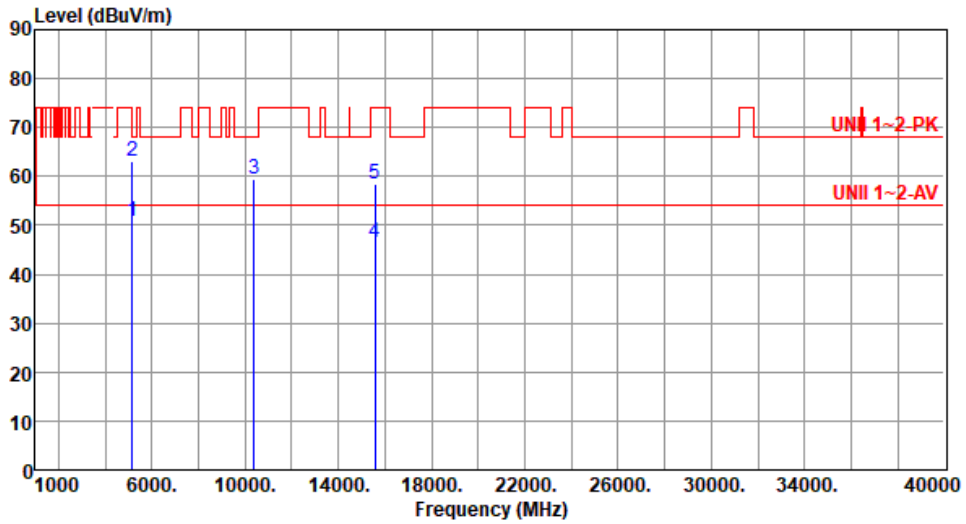


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	48.00	54.00	-6.00	41.69	6.31	Average	100	137
2	5150.00	63.27	74.00	-10.73	56.96	6.31	Peak	100	137
3	10380.00	61.01	68.20	-7.19	46.55	14.46	Peak	190	315
4	15570.00	46.83	54.00	-7.17	30.66	16.17	Average	100	310
5	15570.00	58.85	74.00	-15.15	42.68	16.17	Peak	100	310

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5190
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

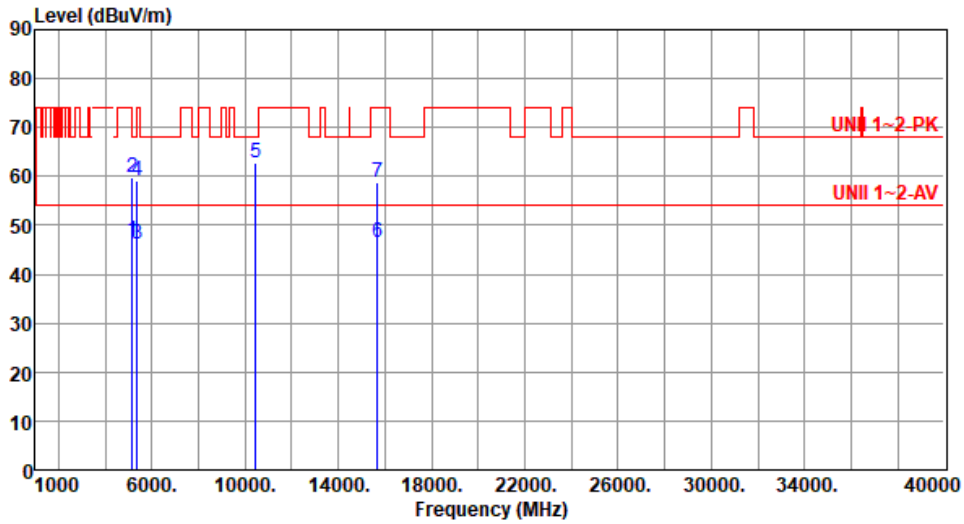


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	50.86	54.00	-3.14	44.55	6.31	Average	245	279
2	5150.00	63.16	74.00	-10.84	56.85	6.31	Peak	245	279
3	10380.00	59.34	68.20	-8.86	44.88	14.46	Peak	100	80
4	15570.00	46.49	54.00	-7.51	30.32	16.17	Average	100	84
5	15570.00	58.47	74.00	-15.53	42.30	16.17	Peak	100	84

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

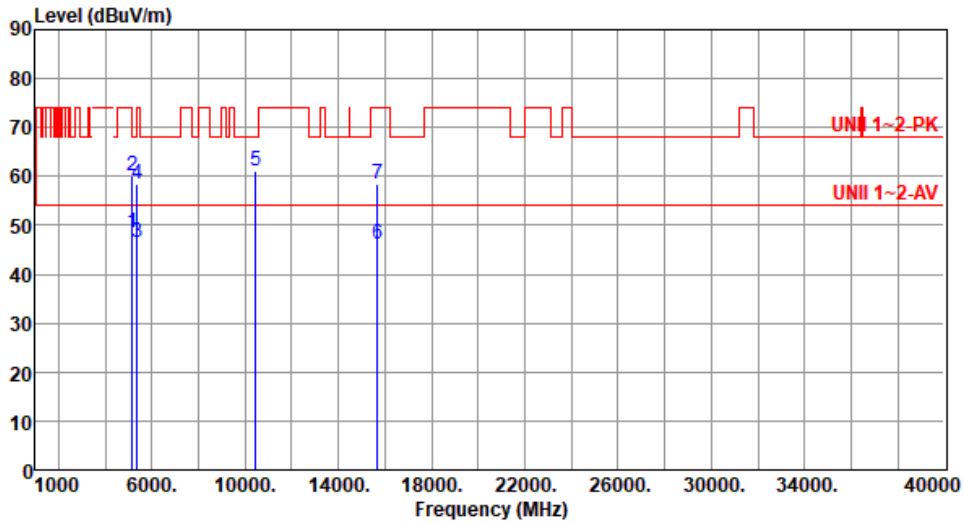


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.79	54.00	-7.21	40.48	6.31	Average	100	146
2	5150.00	59.76	74.00	-14.24	53.45	6.31	Peak	100	146
3	5350.00	46.17	54.00	-7.83	40.45	5.72	Average	100	146
4	5350.00	59.16	74.00	-14.84	53.44	5.72	Peak	100	146
5	10460.00	62.81	68.20	-5.39	48.22	14.59	Peak	215	288
6	15690.00	46.62	54.00	-7.38	30.64	15.98	Average	100	301
7	15690.00	58.67	74.00	-15.33	42.69	15.98	Peak	100	301

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

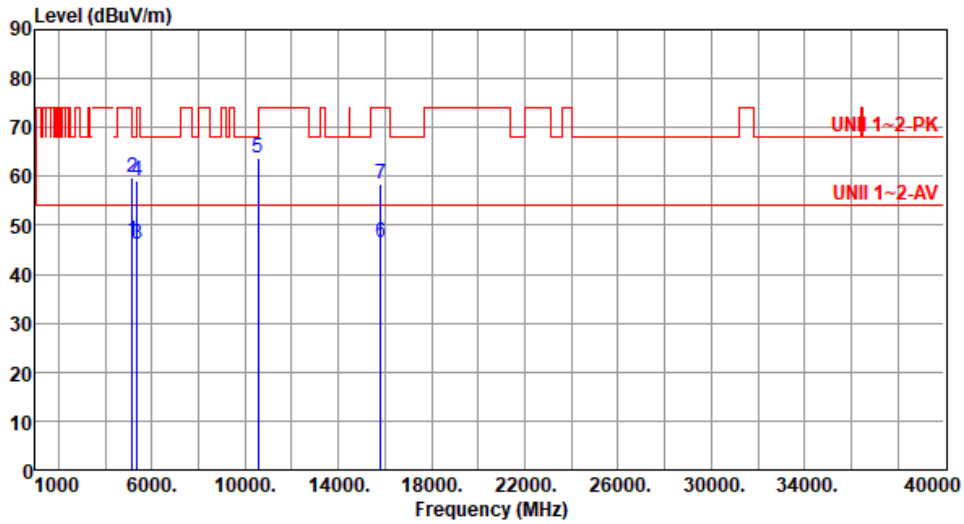


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	48.58	54.00	-5.42	42.27	6.31	Average	265	274
2	5150.00	60.27	74.00	-13.73	53.96	6.31	Peak	265	274
3	5350.00	46.49	54.00	-7.51	40.77	5.72	Average	265	285
4	5350.00	58.36	74.00	-15.64	52.64	5.72	Peak	265	285
5	10460.00	61.17	68.20	-7.03	46.58	14.59	Peak	100	87
6	15690.00	46.26	54.00	-7.74	30.28	15.98	Average	100	84
7	15690.00	58.34	74.00	-15.66	42.36	15.98	Peak	100	84

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

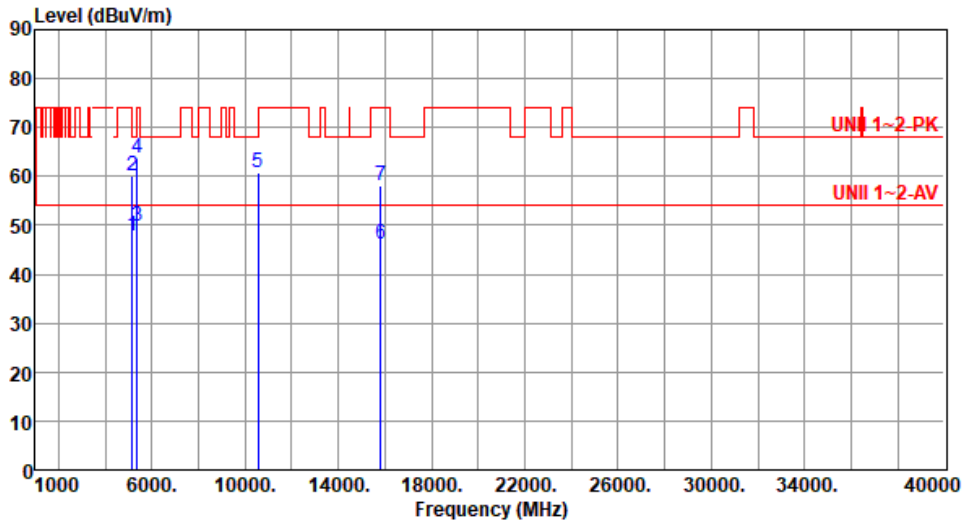


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.73	54.00	-7.27	40.42	6.31	Average	100	148
2	5150.00	59.73	74.00	-14.27	53.42	6.31	Peak	100	148
3	5350.00	46.26	54.00	-7.74	40.54	5.72	Average	100	148
4	5350.00	59.26	74.00	-14.74	53.54	5.72	Peak	100	148
5	10540.00	63.63	68.20	-4.57	48.95	14.68	Peak	222	303
6	15810.00	46.47	54.00	-7.53	30.67	15.80	Average	100	308
7	15810.00	58.48	74.00	-15.52	42.68	15.80	Peak	100	308

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

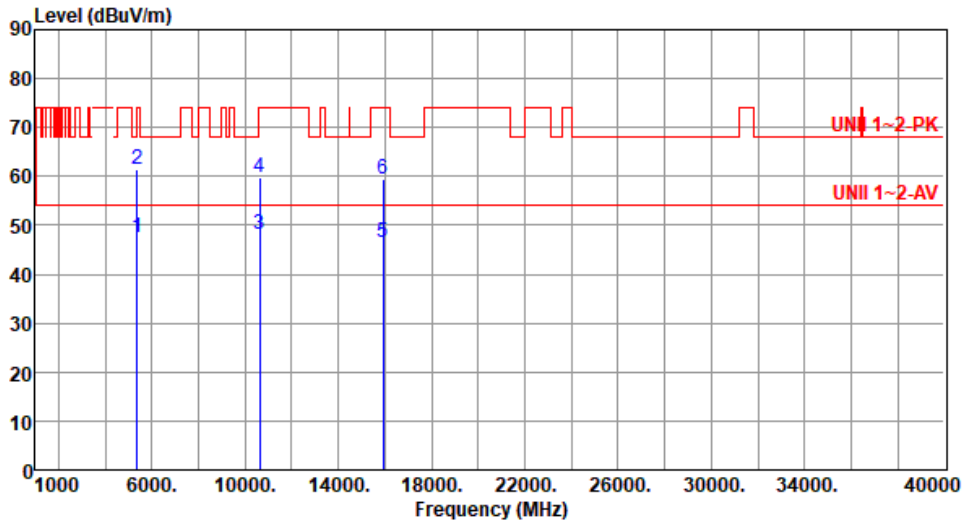


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.97	54.00	-6.03	41.66	6.31	Average	265	255
2	5150.00	60.19	74.00	-13.81	53.88	6.31	Peak	265	255
3	5350.00	49.67	54.00	-4.33	43.95	5.72	Average	265	255
4	5350.00	63.62	74.00	-10.38	57.90	5.72	Peak	265	255
5	10540.00	60.93	68.20	-7.27	46.25	14.68	Peak	100	88
6	15810.00	46.13	54.00	-7.87	30.33	15.80	Average	100	90
7	15810.00	58.09	74.00	-15.91	42.29	15.80	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5310
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

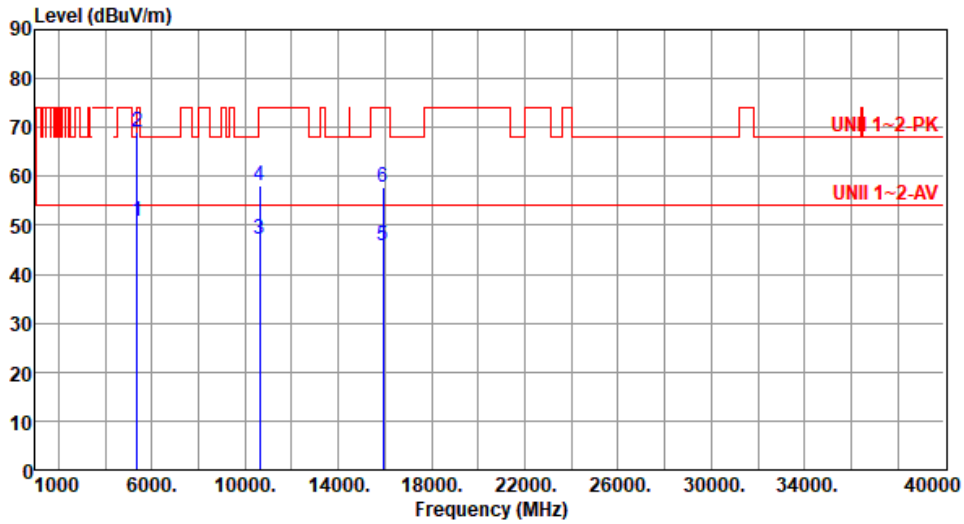


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	47.38	54.00	-6.62	41.66	5.72	Average	100	143
2	5350.00	61.59	74.00	-12.41	55.87	5.72	Peak	100	143
3	10620.00	48.01	54.00	-5.99	33.22	14.79	Average	219	300
4	10620.00	59.67	74.00	-14.33	44.88	14.79	Peak	219	300
5	15930.00	46.38	54.00	-7.62	30.76	15.62	Average	100	302
6	15930.00	59.46	74.00	-14.54	43.84	15.62	Peak	100	302

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5310
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

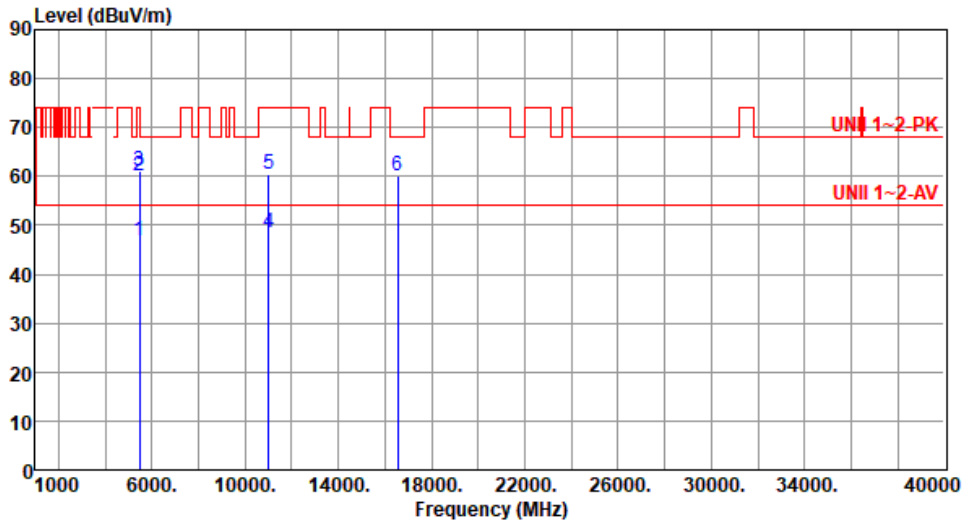


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	50.69	54.00	-3.31	44.97	5.72	Average	327	226
2	5350.00	68.97	74.00	-5.03	63.25	5.72	Peak	327	226
3	10620.00	47.04	54.00	-6.96	32.25	14.79	Average	100	86
4	10620.00	58.04	74.00	-15.96	43.25	14.79	Peak	100	86
5	15930.00	45.86	54.00	-8.14	30.24	15.62	Average	100	94
6	15930.00	57.88	74.00	-16.12	42.26	15.62	Peak	100	94

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5510
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

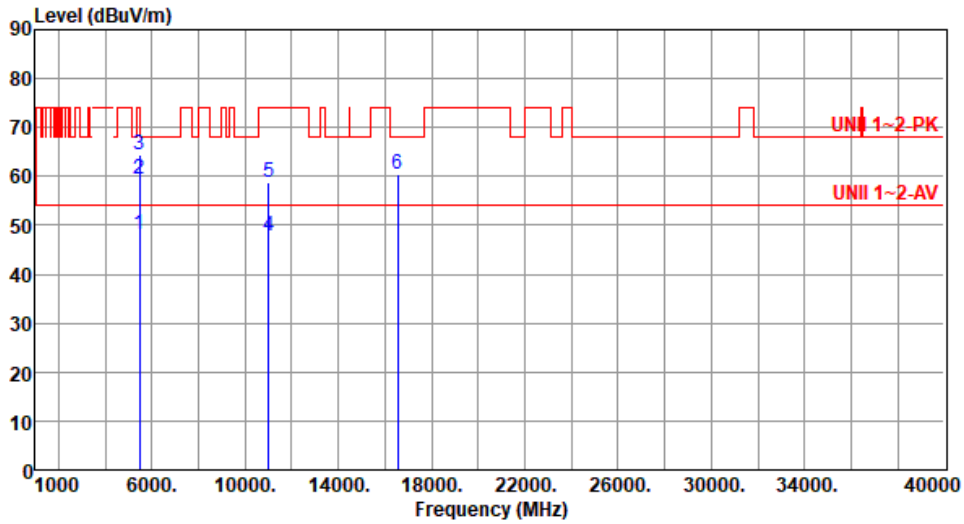


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.85	54.00	-7.15	40.55	6.30	Average	100	143
2	5460.00	59.95	74.00	-14.05	53.65	6.30	Peak	100	143
3	5470.00	61.20	68.20	-7.00	54.88	6.32	Peak	100	143
4	11020.00	48.63	54.00	-5.37	33.05	15.58	Average	200	306
5	11020.00	60.46	74.00	-13.54	44.88	15.58	Peak	200	306
6	16530.00	59.96	68.20	-8.24	42.66	17.30	Peak	100	302

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5510
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

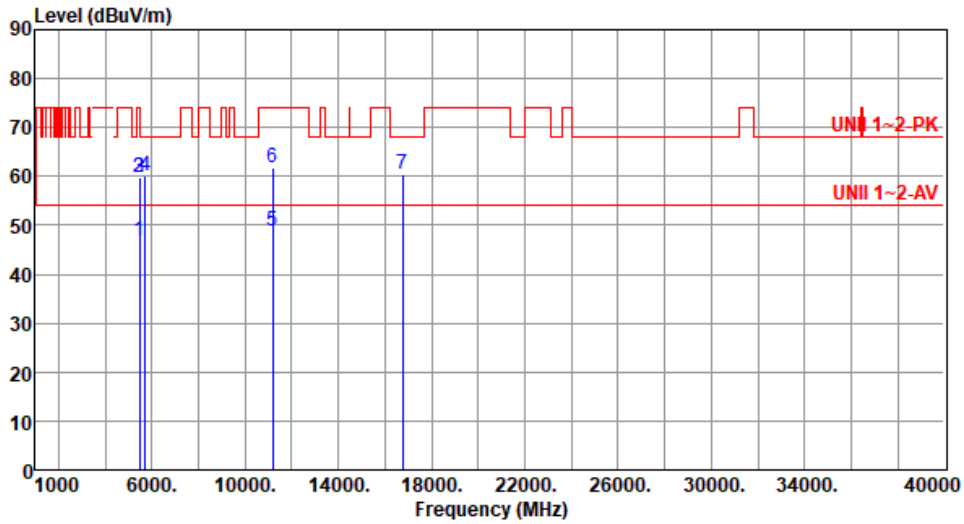


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	47.99	54.00	-6.01	41.69	6.30	Average	295	257
2	5460.00	59.37	74.00	-14.63	53.07	6.30	Peak	295	257
3	5470.00	64.27	68.20	-3.93	57.95	6.32	Peak	295	257
4	11020.00	47.66	54.00	-6.34	32.08	15.58	Average	100	338
5	11020.00	58.84	74.00	-15.16	43.26	15.58	Peak	100	338
6	16530.00	60.55	68.20	-7.65	43.25	17.30	Peak	100	350

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5590
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

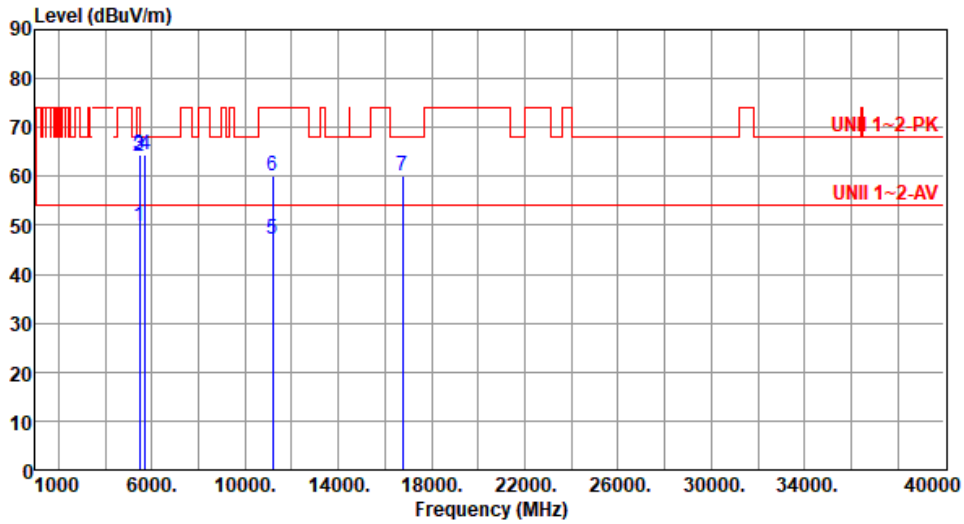


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.73	54.00	-7.27	40.43	6.30	Average	100	153
2	5460.00	59.74	74.00	-14.26	53.44	6.30	Peak	100	153
3	5470.00	59.81	68.20	-8.39	53.49	6.32	Peak	100	153
4	5725.00	60.01	68.20	-8.19	53.42	6.59	Peak	100	153
5	11180.00	48.97	54.00	-5.03	33.87	15.10	Average	171	308
6	11180.00	61.87	74.00	-12.13	46.77	15.10	Peak	171	308
7	16770.00	60.51	68.20	-7.69	42.64	17.87	Peak	100	301

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5590
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

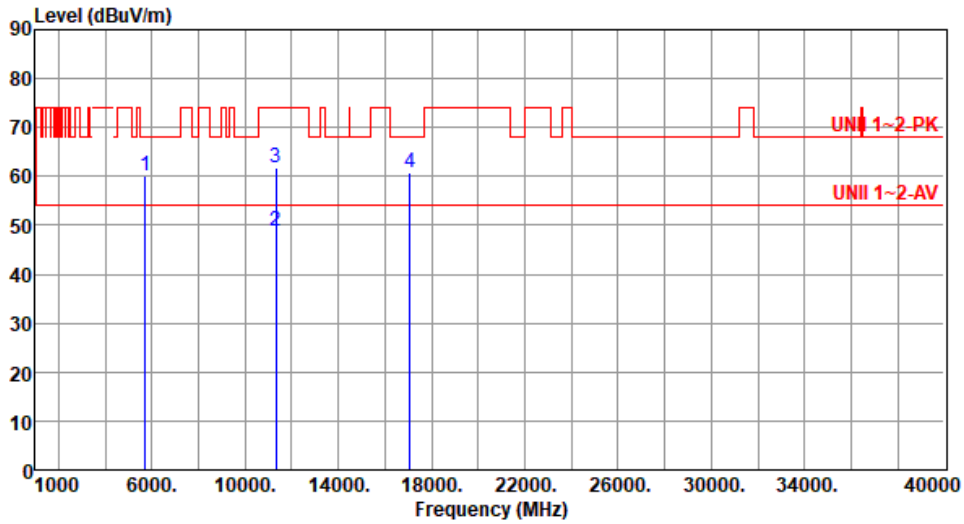


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	49.95	54.00	-4.05	43.65	6.30	Average	277	254
2	5460.00	64.14	74.00	-9.86	57.84	6.30	Peak	277	254
3	5470.00	64.27	68.20	-3.93	57.95	6.32	Peak	277	254
4	5725.00	64.46	68.20	-3.74	57.87	6.59	Peak	277	254
5	11180.00	47.28	54.00	-6.72	32.18	15.10	Average	100	354
6	11180.00	59.98	74.00	-14.02	44.88	15.10	Peak	100	354
7	16770.00	60.15	68.20	-8.05	42.28	17.87	Peak	100	350

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5670
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

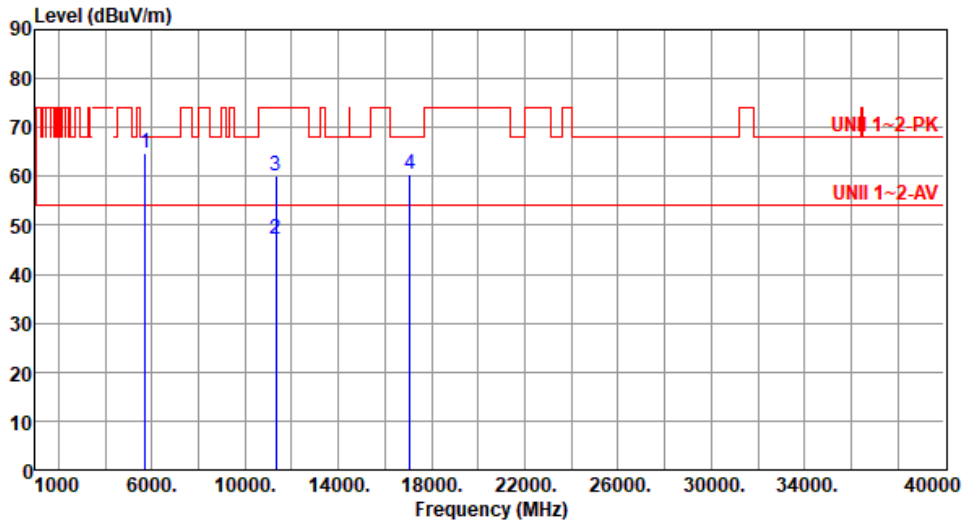


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	60.08	68.20	-8.12	53.49	6.59	Peak	100	147
2	11340.00	48.92	54.00	-5.08	33.80	15.12	Average	195	307
3	11340.00	61.78	74.00	-12.22	46.66	15.12	Peak	195	307
4	17070.00	60.72	68.20	-7.48	42.63	18.09	Peak	100	302

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5670
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

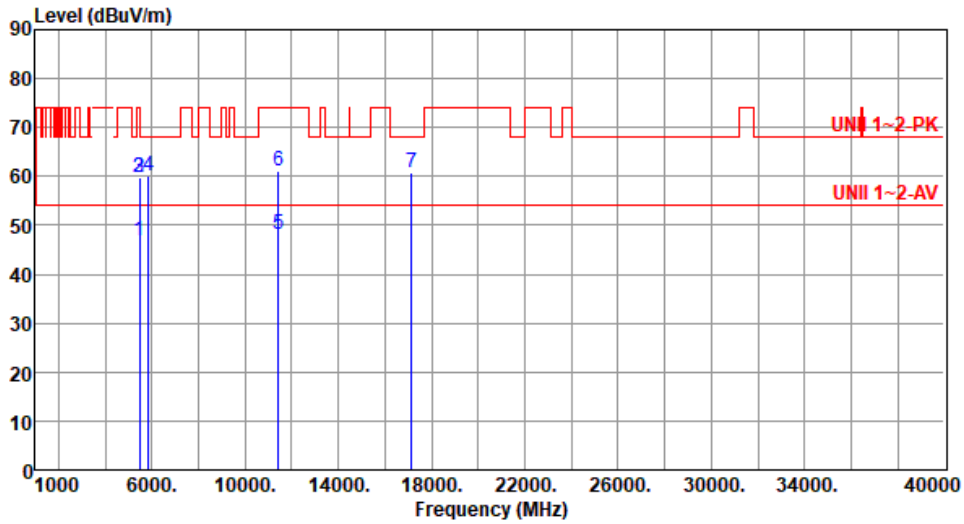


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	64.92	68.20	-3.28	58.33	6.59	Peak	283	255
2	11340.00	47.20	54.00	-6.80	32.08	15.12	Average	100	356
3	11340.00	60.00	74.00	-14.00	44.88	15.12	Peak	100	356
4	17070.00	60.38	68.20	-7.82	42.29	18.09	Peak	100	352

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5710
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

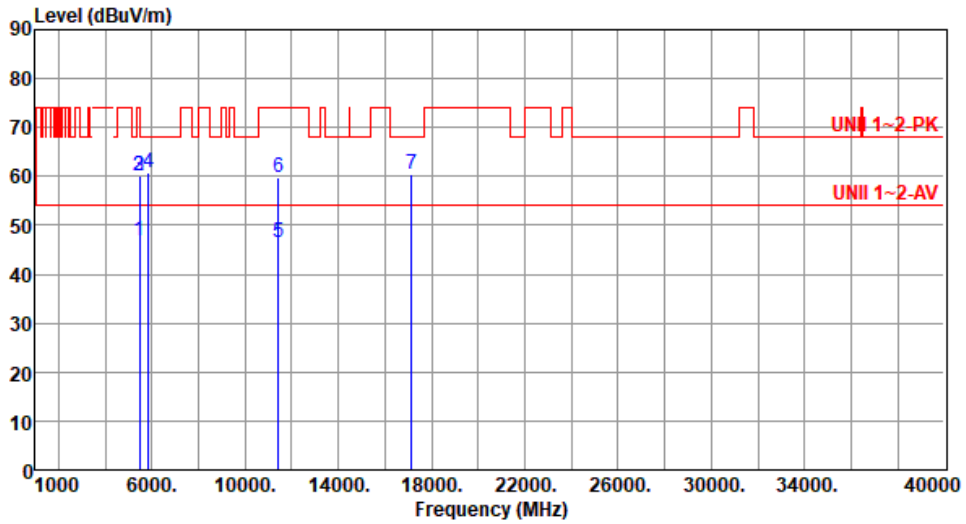


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.73	54.00	-7.27	40.43	6.30	Average	100	143
2	5460.00	59.71	74.00	-14.29	53.41	6.30	Peak	100	143
3	5470.00	59.80	68.20	-8.40	53.48	6.32	Peak	100	143
4	5850.00	60.23	68.20	-7.97	53.46	6.77	Peak	100	143
5	11420.00	48.09	54.00	-5.91	32.89	15.20	Average	169	309
6	11420.00	61.15	74.00	-12.85	45.95	15.20	Peak	169	309
7	17130.00	60.82	68.20	-7.38	42.67	18.15	Peak	100	312

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5710
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

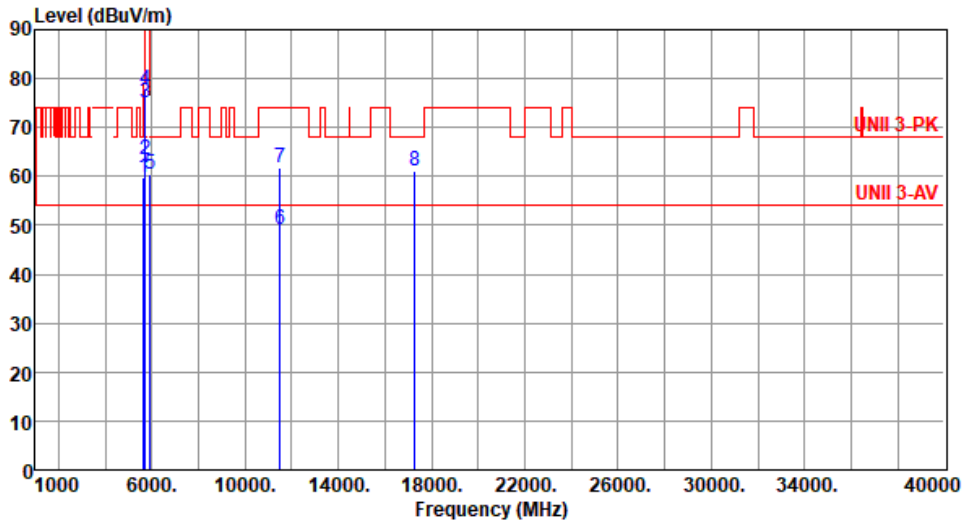


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	46.97	54.00	-7.03	40.67	6.30	Average	233	260
2	5460.00	59.95	74.00	-14.05	53.65	6.30	Peak	233	260
3	5470.00	60.02	68.20	-8.18	53.70	6.32	Peak	233	260
4	5850.00	60.65	68.20	-7.55	53.88	6.77	Peak	233	260
5	11420.00	46.38	54.00	-7.62	31.18	15.20	Average	100	345
6	11420.00	59.75	74.00	-14.25	44.55	15.20	Peak	100	345
7	17130.00	60.42	68.20	-7.78	42.27	18.15	Peak	100	350

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5755
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

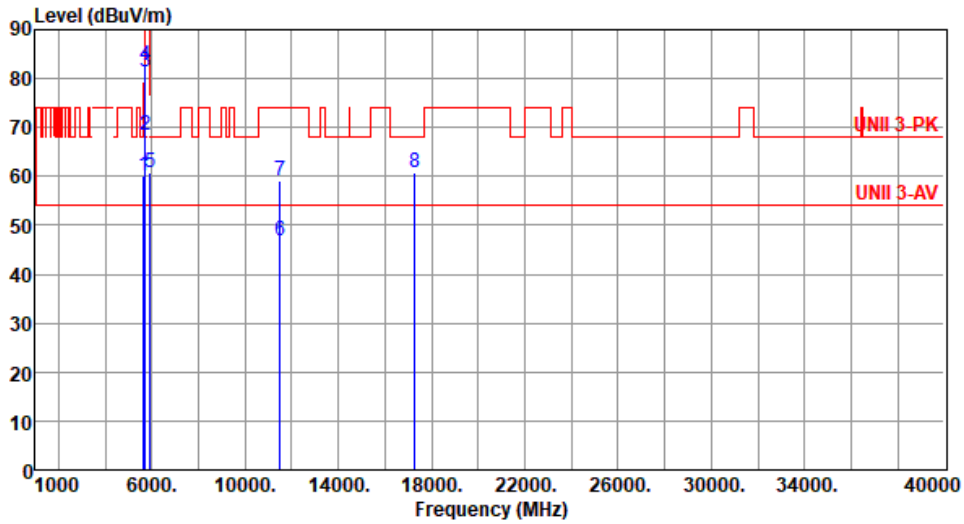


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.74	68.20	-8.46	53.42	6.32	Peak	100	152
2	5700.00	63.49	105.20	-41.71	56.96	6.53	Peak	100	152
3	5720.00	75.13	110.80	-35.67	68.55	6.58	Peak	100	152
4	5725.00	77.84	122.20	-44.36	71.25	6.59	Peak	100	152
5	5925.00	60.44	68.20	-7.76	53.41	7.03	Peak	100	152
6	11510.00	49.28	54.00	-4.72	33.88	15.40	Average	155	302
7	11510.00	61.92	74.00	-12.08	46.52	15.40	Peak	155	302
8	17265.00	61.01	68.20	-7.19	42.68	18.33	Peak	100	309

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

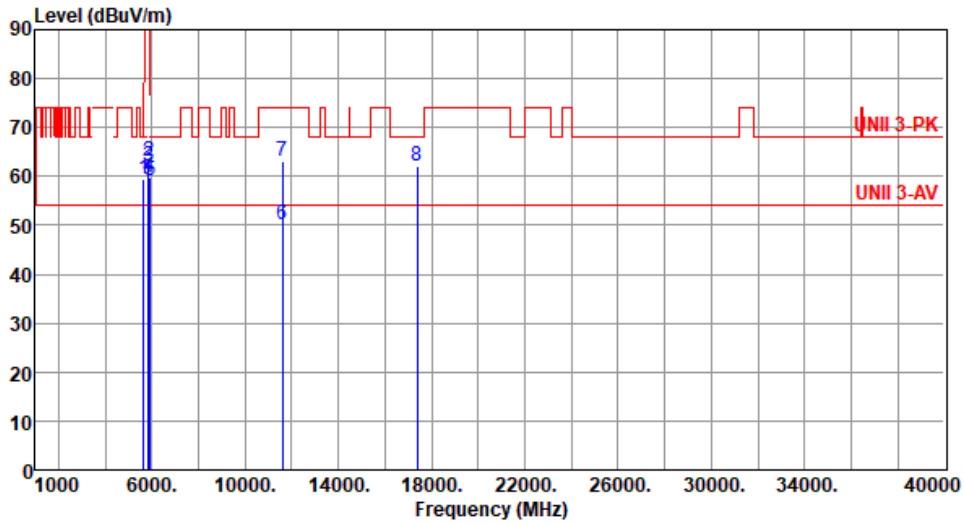


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.98	68.20	-8.22	53.66	6.32	Peak	223	278
2	5700.00	68.50	105.20	-36.70	61.97	6.53	Peak	223	278
3	5720.00	81.23	110.80	-29.57	74.65	6.58	Peak	223	278
4	5725.00	82.76	122.20	-39.44	76.17	6.59	Peak	223	278
5	5925.00	60.63	68.20	-7.57	53.60	7.03	Peak	223	278
6	11510.00	46.85	54.00	-7.15	31.45	15.40	Average	100	306
7	11510.00	59.25	74.00	-14.75	43.85	15.40	Peak	100	306
8	17265.00	60.62	68.20	-7.58	42.29	18.33	Peak	100	310

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69

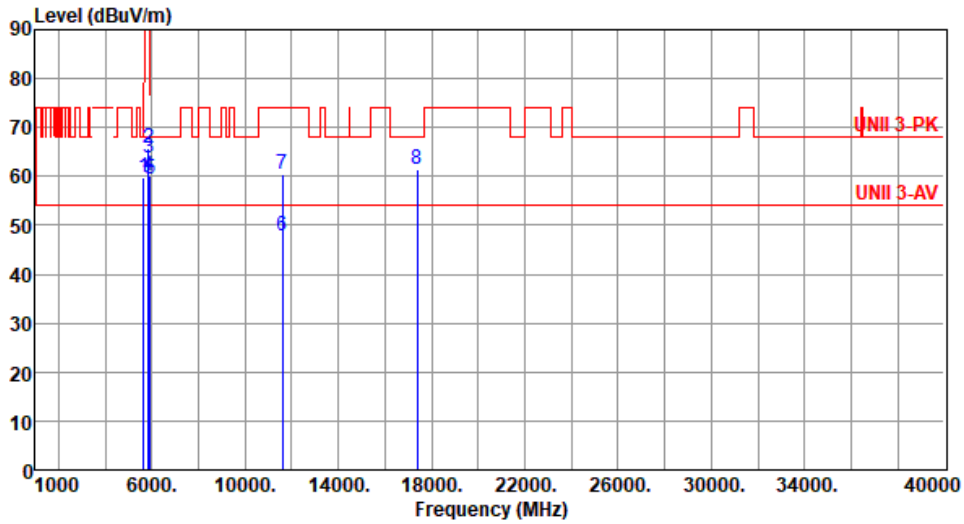


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.54	68.20	-8.66	53.22	6.32	Peak	100	155
2	5850.00	63.10	122.20	-59.10	56.33	6.77	Peak	100	155
3	5855.00	62.02	110.80	-48.78	55.22	6.80	Peak	100	155
4	5875.00	59.84	105.20	-45.36	52.96	6.88	Peak	100	155
5	5925.00	59.21	68.20	-8.99	52.18	7.03	Peak	100	155
6	11590.00	50.25	54.00	-3.75	34.87	15.38	Average	139	306
7	11590.00	63.26	74.00	-10.74	47.88	15.38	Peak	139	306
8	17385.00	61.97	68.20	-6.23	42.68	19.29	Peak	100	308

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	5795
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):21 Humidity(%):69



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.69	68.20	-8.51	53.37	6.32	Peak	222	280
2	5850.00	65.76	122.20	-56.44	58.99	6.77	Peak	222	280
3	5855.00	63.69	110.80	-47.11	56.89	6.80	Peak	222	280
4	5875.00	60.00	105.20	-45.20	53.12	6.88	Peak	222	280
5	5925.00	59.33	68.20	-8.87	52.30	7.03	Peak	222	280
6	11590.00	47.93	54.00	-6.07	32.55	15.38	Average	100	358
7	11590.00	60.60	74.00	-13.40	45.22	15.38	Peak	100	358
8	17385.00	61.47	68.20	-6.73	42.18	19.29	Peak	100	352

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.6 Frequency Stability

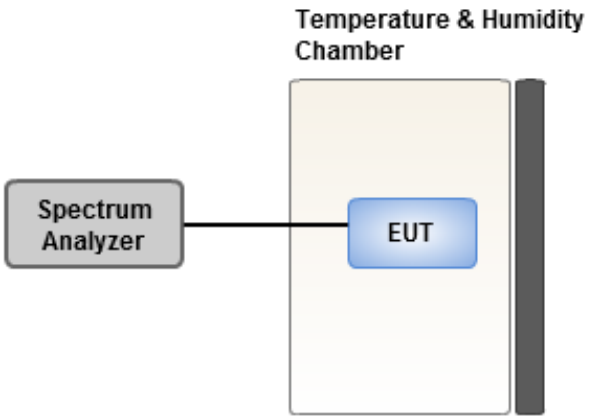
3.6.1 Limit of Frequency Stability

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 user's manual.

3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	24°C / 67%	Tested By	Aska Huang

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (ºC)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	5.30	4.90	5.28	5.40
T20°CVmin	7.16	7.09	7.27	7.07
T60°CVnom	0.52	0.69	0.46	0.88
T50CVnom	1.95	1.86	1.53	1.51
T40°CVnom	4.22	4.34	4.33	4.35
T30°CVnom	5.21	4.91	4.85	4.82
T20°CVnom	6.65	6.49	7.24	6.41
T10°CVnom	8.99	8.67	8.57	9.09
T0°CVnom	11.66	12.23	11.28	11.80
T-10°CVnom	14.62	14.23	14.44	14.36
T-20°CVnom	14.59	14.89	14.94	14.42
T-30°CVnom	17.83	17.14	16.97	16.55
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (ºC)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	4.81	5.53	5.12	5.25
T20°CVmin	6.05	5.79	5.97	5.87
T60°CVnom	0.12	0.29	0.00	-0.27
T50CVnom	1.26	1.94	1.35	1.87
T40°CVnom	3.47	4.01	3.43	3.58
T30°CVnom	4.20	4.40	4.73	3.93
T20°CVnom	5.71	5.60	6.16	5.34
T10°CVnom	7.49	7.31	7.18	7.86
T0°CVnom	10.59	9.98	10.34	10.23
T-10°CVnom	12.57	12.88	12.15	12.62
T-20°CVnom	13.64	13.32	13.25	13.78
T-30°CVnom	15.13	15.10	14.73	15.66
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

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