FCC RF Test Report (WLAN 5GHz)

Report No.: RF161201C02-1

FCC ID: G95-MGM0110VZN

Equipment Name: LTE Router

Trade Name: technicolor

Model Number: MBHA10

Product Code: DSLMVZ011GM

Received Date: Dec. 01, 2016

Test Date: Dec. 01, 2016 to Jan. 10, 2017

Issued Date: Mar. 08, 2017

Applicant: Technicolor Connected Home USA LLC

Address: 5030 Sugarloaf Parkway Building Lawrenceville Georgia United States 30044

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
RF161201C02-1	Original release.	Mar. 08, 2017

1 Certificate of Conformity

Equipment Name: LTE Router

Trade Name: technicolor

Test Model: MBHA10

Product Code: DSLMVZ011GM

Sample Status: Product Unit

Applicant: Technicolor Connected Home USA LLC

Test Date: Dec. 01, 2016 to Jan. 10, 2017

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Mar. 08, 2017
Claire Kuan / Specialist

Approved by : _____ , **Date:** Mar. 08, 2017
May Chen / Manager

2 Summary of Test Results

Applied Standard: 47 CFR FCC Part 15 Subpart E					
Report Clause	**Ref. Std. Clause**	**Description**	**Measured**	**Limit**	**Result**
3.9	15.203	Antenna Requirements	-	-	PASS
4.1	15.407(b)(6)	AC Power Conducted Emissions	Margin is -7.67dB at 0.15000MHz.	-	PASS
4.2	-	99% Occupied Bandwidth & 26dB Bandwidth	99% Occupied Bandwidth [MHz]: 11ac(20M): 19.56 11ac(40M): 36.96 26dB Bandwidth [MHz]: 11ac(20M): 42.33 11ac(40M): 73.64	-	-
4.3	15.407(e)	6dB bandwidth for U-NII-3	Minimum Bandwidth [MHz]: 11ac(20M): 17.63 11ac(40M): 36.35	≥500kHz	PASS
4.4	15.407 (a)(1/2/3)	Maximum Conducted Output Power	**For CDD Mode:** 5150-5250MHz Power [dBm]: 11a: 23.21 dBm 11ac(20M): 23.72 dBm 11ac(40M): 21.57 dBm 5725-5850MHz Power [dBm]: 11a: 22.51 dBm 11ac(20M): 22.60 dBm 11ac(40M): 20.28 dBm **For TxBF Mode:** 5150-5250MHz Power [dBm]: 11ac(20M): 22.72 dBm 11ac(40M): 21.68 dBm 5725-5850MHz Power [dBm]: 11ac(20M): 22.68 dBm 11ac(40M): 20.26 dBm	Power [dBm] 5150-5250MHz:30 5725-5850MHz:30	PASS

4.5	15.407 (a)(1/2/3)	Power Spectral Density	**For CDD Mode:** 5150-5250MHz [dBm/MHz]: 11a: 9.48 11ac(20M): 9.65 11ac(40M): 4.79 5725-5850MHz [dBm/500kHz]: 11a: 7.77 11ac(20M): 7.34 11ac(40M): 2.31 **For TxBF Mode:** 5150-5250MHz [dBm/MHz]: 11ac(20M): 9.76 11ac(40M): 5.06 5725-5850MHz [dBm/500kHz]: 11ac(20M): 7.82 11ac(40M): 2.90	5150-5250MHz: 17 [dBm/MHz] 5725-5850MHz: 30 [dBm/500kHz]	PASS
4.6	15.407 (b)(1/2/3/4/6)	Radiated Emissions	Margin is -3.1dB at 34.27MHz.	-	PASS
		Band Edge	Margin is -2.6dB at 5362.00MHz	-	PASS
4.7	15.407(g)	Frequency Stability	-	Signal shall remain in-band	PASS

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.83 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.36 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	3.47 dB
	6GHz ~ 18GHz	3.75 dB
	18GHz ~ 40GHz	3.30 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 Basic Description of Equipment Under Test (WLAN 5GHz)

Items	Description			
Equipment Name	LTE Router			
Trade Name	technicolor			
Model Number	MBHA10			
Product Code	DSLMVZ011GM			
FCC ID	G95-MGM0110VZN			
Power Type	From power adapter			
Antenna	Refer section 3.10			
EUT Stage	■	Product Unit	☐	Pre-Sample
Operating Band and Conducted Output Power	**U-NII-1** 5150~5250MHz		■	IEEE 802.11a: CDD Mode: 23.21 dBm
			■	IEEE 802.11ac (20MHz): CDD Mode: 23.72 dBm TxBF Mode: 22.72 dBm
			■	IEEE 802.11ac (40MHz): CDD Mode: 21.57 dBm TxBF Mode: 21.68 dBm
	U-NII-2A 5250~5350MHz		☐	IEEE 802.11a
			☐	IEEE 802.11ac (20MHz)
			☐	IEEE 802.11ac (40MHz)
	U-NII-2C 5470~ 5725 MHz		☐	IEEE 802.11a
			☐	IEEE 802.11ac (20MHz)
			☐	IEEE 802.11ac (40MHz)
	U-NII-3 5725~ 5850 MHz		■	IEEE 802.11a: CDD Mode: 22.51 dBm
			■	IEEE 802.11ac (20MHz): CDD Mode: 22.60 dBm TxBF Mode: 22.68 dBm
			■	IEEE 802.11ac (40MHz): CDD Mode: 20.28 dBm TxBF Mode: 20.26 dBm

Product Type	For IEEE 802.11a: WLAN(2TX, 2RX) For IEEE 802.11n: WLAN(2TX, 2RX) For IEEE 802.11ac: WLAN (2TX, 2RX)			
Nominal Bandwidth	20MHz / 40MHz			
Modulation	802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11n: (BPSK / QPSK / 16QAM / 64QAM) See the below table 802.11ac: (BPSK / QPSK / 16QAM / 64QAM/ 256QAM) See the below table			
Data Rate (Mbps)	11a mode : OFDM (6/9/12/18/24/36/48/54) 11n(20MHz) mode : MCS0~MCS15 11n(40MHz) mode : MCS0~MCS15 11ac(20MHz) mode : MCS0~MCS9 for NSS1~NSS2 See the below table 11ac(40MHz) mode : MCS0~MCS9 for NSS1~NSS2 See the below table			
TPC Function	☐	With TPC	■	Without TPC
Beam forming Function	■	With Beam forming	☐	Without Beam forming
DFS Function	☐	5250~5350MHz		
	☐	5470~5725MHz		
	☐	5600~5650MHz		
Off Channel CAC Feature Implemented	■	No		
Ad-hoc/Hotspot Mode	■	No Ad-hoc/Hotspot operation in 5150 - 5350 MHz and 5470 - 5725 MHz.		
User Access Restrictions	■	DFS controls (hardware or software) related to radar detection are NOT accessible to the user.		
I/O Ports	LAN Port x 1 RJ31 Port x 1 FXS Port x 1 SIM Port x1 Console Port x 1 (For engineer debug use only)			
Hardware Version	FGR1			
Software Version	16.4.7446-3130000-20161220230657-aa636a7383f23e65d07560e3fbe49cd6cbed2ce0			

802.11n Data Rate spec

Standard	INDEX	Data Rate (Mbps)		Standard	INDEX	Data Rate (Mbps)	
		LGI (800ns)	SGI (400ns)			LGI (800ns)	SGI (400ns)
11n 20MHz Nss=1	MCS0	6.5	7.2	11n 40MHz Nss=1	MCS0	13.5	15
	MCS1	13	14.4		MCS1	27	30
	MCS2	19.5	21.7		MCS2	40.5	45
	MCS3	26	28.9		MCS3	54	60
	MCS4	39	43.3		MCS4	81	90
	MCS5	52	57.8		MCS5	108	120
	MCS6	58.5	65		MCS6	121.5	135
	MCS7	65	72.2		MCS7	135	150
11n 20MHz Nss=2	MCS8	13	14.4	11n 40MHz Nss=2	MCS8	27	30
	MCS9	26	28.9		MCS9	54	60
	MCS10	39	43.3		MCS10	81	90
	MCS11	52	57.8		MCS11	108	120
	MCS12	78	86.7		MCS12	162	180
	MCS13	104	115.6		MCS13	216	240
	MCS14	117	130		MCS14	243	270
	MCS15	130	144.4		MCS15	270	300

802.11ac Data Rate spec

Standard	INDEX	Data Rate (Mbps)		Standard	INDEX	Data Rate (Mbps)	
		LGI (800ns)	SGI (400ns)			LGI (800ns)	SGI (400ns)
11ac 20MHz NSS = 1	MCS0	6.5	7.2	11ac 40MHz NSS = 1	MCS0	13.5	15.0
	MCS1	13.0	14.4		MCS1	27	30.0
	MCS2	19.5	21.7		MCS2	40.5	45.0
	MCS3	26	28.9		MCS3	54	60.0
	MCS4	39	43.3		MCS4	81	90.0
	MCS5	52	57.8		MCS5	108	120.0
	MCS6	58.5	65		MCS6	121.5	135.0
	MCS7	65	72.2		MCS7	135.0	150.0
	MCS8	78	86.7		MCS8	162.0	180.0
	MCS9	Note	Note		MCS9	180.0	200.0

NOTE: MCS 9 is invalid due to mod(NCBPS/NES, DR) not being equal to 0.

Standard	INDEX	Data Rate (Mbps)		Standard	INDEX	Data Rate (Mbps)	
		LGI (800ns)	SGI (400ns)			LGI (800ns)	SGI (400ns)
11ac 20MHz NSS = 2	MCS0	13.0	14.4	11ac 40MHz NSS = 2	MCS0	27.0	30.0
	MCS1	26.0	28.9		MCS1	54.0	60.0
	MCS2	39.0	43.3		MCS2	81.0	90.0
	MCS3	52.0	57.8		MCS3	108.-0	120.0
	MCS4	78.0	86.7		MCS4	162.0	180.0
	MCS5	104.0	115.6		MCS5	216.0	240.0
	MCS6	117.0	130.0		MCS6	243.0	270.0
	MCS7	130.0	144.4		MCS7	270.0	300.0
	MCS8	156.0	173.3		MCS8	324.0	360.0
	MCS9	Note	Note		MCS9	360.0	400.0

NOTE: MCS 9 is invalid due to mod(NCBPS/NES, DR) not being equal to 0.

3.2 Accessories

Li-ion Battery:

Model	BP-MGM0110
Manufacturer	GETAC TECHNOLOGY CORP.
Rating	3.7V, 2500mAh / 9.25Wh

Power supply:

Model	WAE002
P/N	DSL37544940
Manufacturer	AcBel
Input	100/240Vac , 50/60Hz , 0.7A
Output	12Vdc , 2A
DC power cord	1.5m

3.3 Feature of Equipment Under Test

Please refer to user manual.

3.4 Information Provided by the Manufacturer

Interface Availability

Interface / Model	DC 12Vdc	RJ31-X Alarm	Ethernet 10/100 Mbps	FXS	SIM	Zigbee	Z-Wave	BT	GPS	LTE (4G)	WLAN 802.11a/b/g/n/ac (2.4GHz 2*2) (5GHz 2*2 ac)
MBHA10	● (2A)	● (1 port)	● (1 port)	● (1 port)	● (1 port)	●	●	●	●	●	●

● : Equipped
○ : Not Equipped

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General UNII Test Procedure New Rules v01r03,08/22/2016
KDB 662911 D01 Multiple Transmitter Output v02r01, 10/31/2013
KDB 644545 D03 Guidance for 802 11ac New Rules v01, 08/14/2014
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

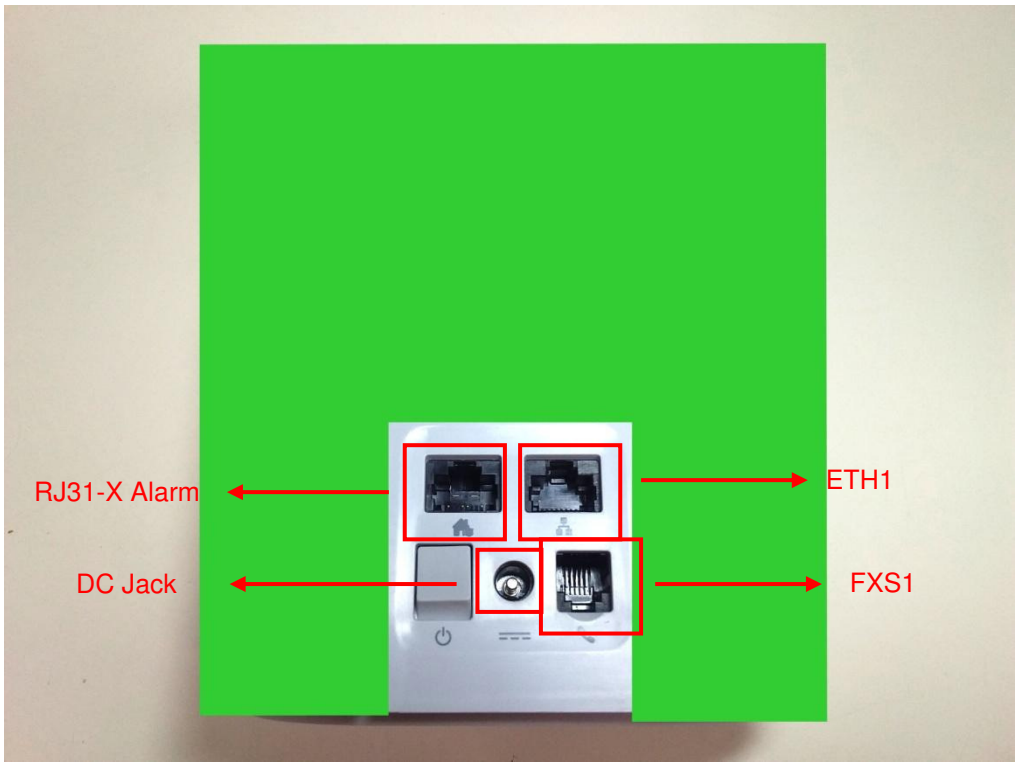
NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

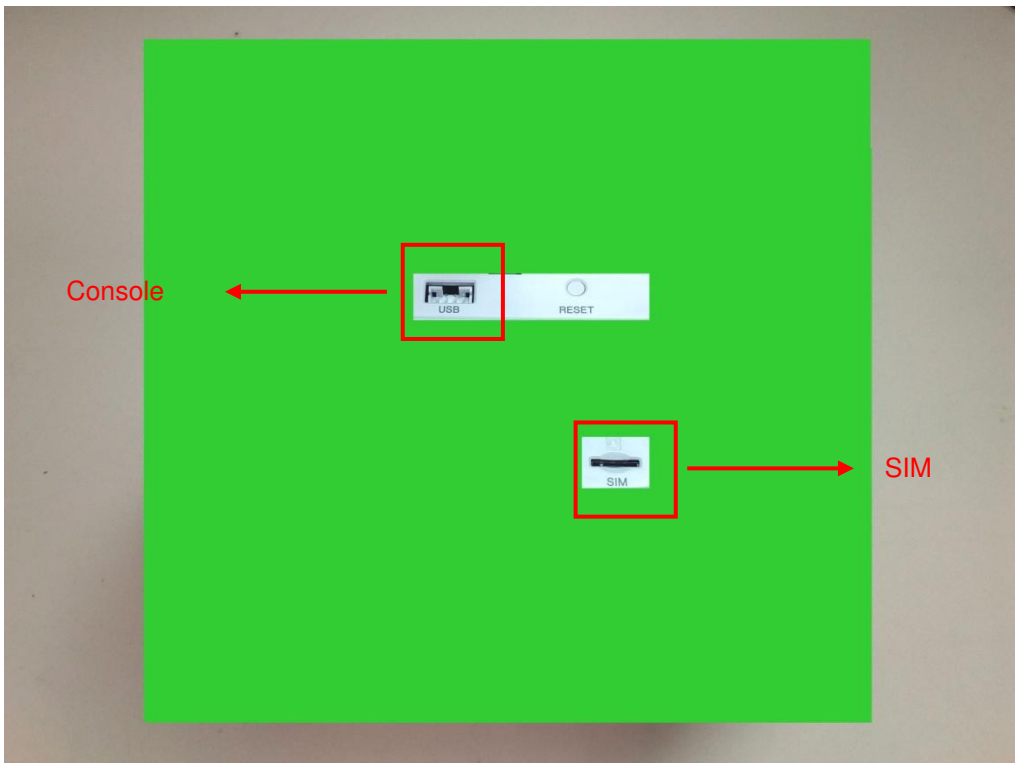
3.6 Cabling Attached to the Equipment

Cable and Interconnection

Interface	Cable Type	Cable Length Delivered with the Modem	"Real Life" Cable Length that can be Attached to this Type of Interface	Cable Length to be used for Testing	Internal/ External Connection
ETH1	UTP Cat 5	1 meter	> 10 meter	10 meter	Internal
RJ31-X Alarm	UTP Cat 3	1 meter	> 10 meter	10 meter	Internal
FXS1	UTP Cat 3	1 meter	> 10 meter	10 meter flat cable	Internal
AC power	-	-	-	-	External

3.7 Panel Drawing





3.8 Transmit Operating Mode

For 5150~5250MHz & 5725~5850MHz

Transmit Operating Mode							Transmit Muitiple Antennas				
■	Operating mode 1 (single antenna)						■	1TX			
■	Operating mode 2 (muitiple antenna, no beam forming)						■	2TX	□	3TX	□ 4TX
■	Operating mode 3 (muitiple antenna, with beam forming)						■	2TX	□	3TX	□ 4TX
■	802.11a	Operating mode	■	1T	■	2T	□	3TX	□	4TX	
■	802.11n (20MHz)	Operating mode	■	1T	■	2T	□	3TX	□	4TX	
■	802.11n (40MHz)	Operating mode	■	1T	■	2T	□	3TX	□	4TX	
■	802.11ac (20MHz)	Operating mode	■	1T	■	2T	□	3TX	□	4TX	
■	802.11ac (40MHz)	Operating mode	■	1T	■	2T	□	3TX	□	4TX	
□	802.11ac (80MHz)	Operating mode	□	1T	□	2T	□	3TX	□	4TX	

For IEEE802.11n, MCS0~MCS7: 1 Stream 1TX, 1 Stream 2TX ; MCS8~MCS15: 2 Stream 2TX,
For IEEE802.11ac 20MHz, Nss1MCS0~Nss1MCS8:1 Stream 2TX;Nss2MCS0~Nss2MCS9: 2 Stream 2TX.
For IEEE802.11ac 40MHz, Nss1MCS0~Nss1MCS9:1 Stream 2TX;Nss2MCS0~Nss2MCS9: 2 Stream 2TX.

3.9 Antenna Requirements

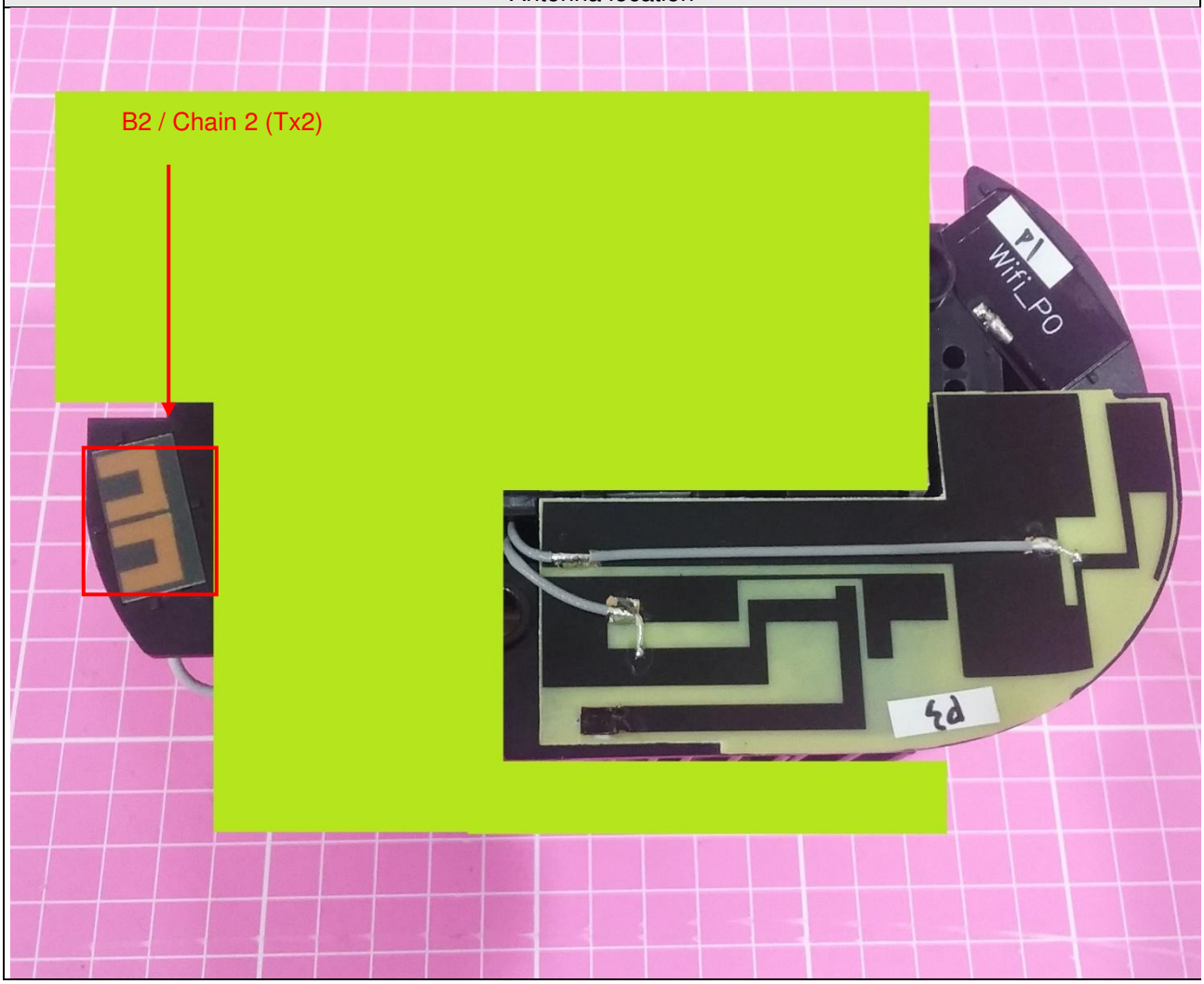
Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

3.10 Antenna Information

Antenna Information					
Ant.	**Brand**	**Model No.**	**Antenna Type**	**Connector**	**Cable Length**
B1	**INPAQ**	**WA-F-LB-04-005**	**FPCB Antenna**	**I-PEX**	**35 mm**
B2	**INPAQ**	**WA-P-LC-01-037**	**PCB Antenna**	**I-PEX**	**83 mm**

Antenna location

Antenna location



Number of Transmitter Antennas & Bandwidth

Number of Transmitter Antennas	1TX			2TX		
Bandwidth Mode	**20 MHz**	**40 MHz**	**80 MHz**	**20 MHz**	**40 MHz**	**80 MHz**
802.11a	**V**	**X**	**X**	**V**	**X**	**X**
802.11n	**V**	**V**	**X**	**V**	**V**	**X**
802.11ac	**V**	**V**	**X**	**V**	**V**	**X**

Frequency	Antenna Gain (dBi)			
	Ant. B1 (WAJ1)		Ant. B2 (WAJ2)	
	20 MHz	40 MHz	20 MHz	40 MHz
5180MHz	4.86		4.93	
5190MHz		4.69		4.83
5200MHz	4.69		4.85	
5230MHz		3.86		4.87
5240MHz	4.06		4.46	
5260MHz	4.33		4.95	
5270MHz		4.58		4.88
5300MHz	4.93		4.67	
5310MHz		4.81		4.52
5320MHz	4.34		4.30	
5500MHz	3.83		3.15	
5510MHz		3.90		3.31
5550MHz		4.07		3.68
5580MHz	3.81		3.75	
5610MHz	3.65		3.93	
5620MHz		3.92		4.02
5670MHz		4.36		4.17
5700MHz	4.49		4.31	
5710MHz		4.53		4.34
5720MHz	4.57		4.26	
5745MHz	4.58		4.06	
5755MHz		4.55		3.96
5785MHz	4.61		3.65	
5795MHz		4.65		3.70
5825MHz	4.83		4.64	

Note:
1. Antenna Gain refer to “General MBHA10 antenna table_20161205.xls” files

Frequency	Maximum Gain (dBi) for CDD mode			
	CDD mode (1 Stream 2 TX) for Power Gain (KDB 662911 Option 1)		CDD mode (1 Stream 2 TX) for PSD Gain (KDB 662911 Option 2)	
	20 MHz	40 MHz	20 MHz	40 MHz
5180MHz	4.93		6.58	
5190MHz		4.83		6.75
5200MHz	4.85		6.84	
5230MHz		4.87		6.74
5240MHz	4.46		6.51	
5260MHz	4.95		6.90	
5270MHz		4.88		7.03
5300MHz	4.93		7.17	
5310MHz		4.81		7.17
5320MHz	4.34		7.05	
5500MHz	3.83		6.05	
5510MHz		3.9		6.04
5550MHz		4.07		5.94
5580MHz	3.81		5.72	
5610MHz	3.93		5.46	
5620MHz		4.02		5.47
5670MHz		4.36		5.07
5700MHz	4.49		5.19	
5710MHz		4.53		5.26
5720MHz	4.57		5.32	
5745MHz	4.58		5.15	
5755MHz		4.55		4.99
5785MHz	4.61		4.96	
5795MHz		4.65		4.93
5825MHz	4.83		4.87	

Note:

1. Antenna Gain refer to “General MBHA10 antenna table_20161205.xls” files
2. Maximum Correlated Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi
3. Maximum Uncorrelated Directional Gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10}) / N_{ANT}]$ dBi

Frequency	Maximum Gain (dBi) for SDM & TxBF mode			
	SDM mode (2 Stream 2 TX) for Power & PSD Gain (KDB 662911 Option 2)		TXBF mode (1 Stream 2 TX) for Power & PSD Gain (KDB 662911 Option 2)	
	20 MHz	40 MHz	20 MHz	40 MHz
5180MHz	3.65		6.58	
5190MHz		3.82		6.75
5200MHz	3.90		6.84	
5230MHz		3.81		6.74
5240MHz	3.56		6.51	
5260MHz	3.96		6.90	
5270MHz		4.06		7.03
5300MHz	4.17		7.17	
5310MHz		4.16		7.17
5320MHz	4.05		7.05	
5500MHz	3.04		6.05	
5510MHz		3.03		6.04
5550MHz		2.94		5.94
5580MHz	2.73		5.72	
5610MHz	2.46		5.46	
5620MHz		2.47		5.47
5670MHz		2.40		5.07
5700MHz	2.57		5.19	
5710MHz		2.62		5.26
5720MHz	2.66		5.32	
5745MHz	2.44		5.15	
5755MHz		2.26		4.99
5785MHz	2.12		4.96	
5795MHz		2.10		4.93
5825MHz	2.08		4.87	

Note:

1. Antenna Gain refer to “General MBHA10 antenna table_20161205.xls” files
2. Maximum Correlated Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi
3. Maximum Uncorrelated Directional Gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10}) / N_{ANT}]$ dBi

3.11 Table for Carrier Frequency

9 channels are provided for 802.11a/ 802.11n (20MHz) / 802.11ac (20MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5150~5250 MHz	36	5180 MHz	44	5220 MHz
	40	5200 MHz	48	5240 MHz
5725~5850 MHz	149	5745 MHz	161	5805 MHz
	153	5765 MHz	165	5825 MHz
	157	5785 MHz	-	-

4 channels are provided for 802.11n (40MHz) / 802.11ac (40MHz):

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5150~5250 MHz	38	5190 MHz	46	5230 MHz
5725~5850 MHz	151	5755 MHz	159	5795 MHz

3.12 Table for Test Modes

Test Items	Mode	Note	Channel	Data Rate	Antenna
AC Power Conducted Emissions	11ac(20MHz)	OFDM/BPSK	40	-	1+2
Occupied Bandwidth & 26dB Bandwidth	11a	OFDM/BPSK	36/40/48 149/157/165	1S2T 6Mbps	1+2
	11ac(20MHz)		36/40/48 149/157/165	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
	11ac(40MHz)		38/46 151/159	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
6dB Bandwidth (for U-NII-3)	11a	OFDM/BPSK	149/157/165	1S2T 6Mbps	1+2
	11ac(20MHz)		149/157/165	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
	11ac(40MHz)		151/159	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
Maximum Conducted Output Power	11a	OFDM/BPSK	36/40/48 149/157/165	1S2T 6Mbps	1+2
	11ac(20MHz)		36/40/48 149/157/165	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
	11ac(40MHz)		38/46 151/159	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2

Test Items	Mode	Note	Channel	Data Rate	Antenna
Power Spectral Density	11a	OFDM/BPSK	36/40/48 149/157/165	1S2T 6Mbps	1+2
	11ac(20MHz)		36/40/48 149/157/165	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
	11ac(40MHz)		38/46 151/159	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
Radiated Emission and Bandedge Above 1GHz	11ac(20MHz)	OFDM/BPSK	36/40/48 149/157/165	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
	11ac(40MHz)		38/46 151/159	1S2T CDD Nss1 MCS0	1+2
				1S2T TXBF Nss1 MCS0	1+2
Radiated Emissions Below 1GHz	11ac(20MHz)	OFDM/BPSK	40	-	1+2
Frequency Stability	20MHz	Un-modulation	36/40/48 149/157/165	-	1, 2
	40MHz		38/46 151/159	-	1, 2

Note:

1. The device with multiple operating mode, measurements on the middle channel were tested to determine the worst case mode. (Each modulation family were tested in band edge, spurious emission and in band PSD after investigate worst case mode)
2. Base on tx core command, the 802.11a default mode is 1S2T CDD , the 802.11ac 20MHz/ 40MHz, default mode are 1S2T CDD/TXBF, 2S2T SDM.
   wl -i wl1 txcore
   txcore enabled bitmap (Nsts {4..1}) 0x00 0x00 0x03 0x03
   txcore mask OFDM 0x03 CCK 0x03
3. Base on same power setting, the 802.11ac 2S2T SDM mode covered by 802.11ac 1S2T CDD mode.
4. Base on same power setting with 802.11n mode, the 802.11a mode were only tested the “Maximum Conducted Output Power”, “Power Spectral Density” and “Bandwidth”.

3.13 Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

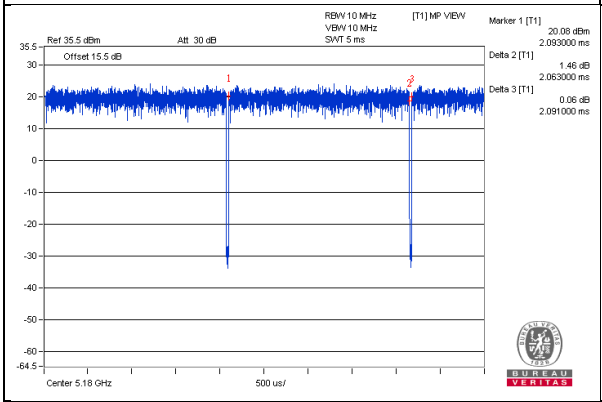
The Power Setting Parameter					
Test Software Version	16.4.7446-3130000-20161220230657-aa636a7383f23e65d07560e3fbe49cd6cbed2ce0				
Worst Modulation Mode	**Number of Transmit Chains (NTX)**	**Frequency (MHz)**	**Maximum Output Power(dBm)**	**Power Setting**	**Data Rate / MCS**
802.11a (CDD)	1 stream 2TX	5180	21.50	18.25	6Mbps
802.11a (CDD)	1 stream 2TX	5200	23.21	20	6Mbps
802.11a (CDD)	1 stream 2TX	5240	23.19	19.75	6Mbps
802.11a (CDD)	1 stream 2TX	5745	22.48	19	6Mbps
802.11a (CDD)	1 stream 2TX	5785	22.51	19	6Mbps
802.11a (CDD)	1 stream 2TX	5825	22.44	19	6Mbps
802.11ac 20MHz (CDD)	1 stream 2TX	5180	21.74	18.25	Nss1MCS0 (6.5)
802.11ac 20MHz (CDD)	1 stream 2TX	5200	23.72	20	Nss1MCS0 (6.5)
802.11ac 20MHz (CDD)	1 stream 2TX	5240	23.47	19.75	Nss1MCS0 (6.5)
802.11ac 20MHz (CDD)	1 stream 2TX	5745	22.54	19	Nss1MCS0 (6.5)
802.11ac 20MHz (CDD)	1 stream 2TX	5785	22.60	19	Nss1MCS0 (6.5)
802.11ac 20MHz (CDD)	1 stream 2TX	5825	22.54	19	Nss1MCS0 (6.5)
802.11ac 20MHz (TxBF)	1 stream 2TX	5180	21.63	18.5	Nss1MCS0 (6.5)
802.11ac 20MHz (TxBF)	1 stream 2TX	5200	22.72	19.5	Nss1MCS0 (6.5)
802.11ac 20MHz (TxBF)	1 stream 2TX	5240	21.97	18.75	Nss1MCS0 (6.5)
802.11ac 20MHz (TxBF)	1 stream 2TX	5745	22.51	19	Nss1MCS0 (6.5)
802.11ac 20MHz (TxBF)	1 stream 2TX	5785	22.68	19	Nss1MCS0 (6.5)
802.11ac 20MHz (TxBF)	1 stream 2TX	5825	22.60	19	Nss1MCS0 (6.5)
802.11ac 40MHz (CDD)	1 stream 2TX	5190	19.43	16	Nss1MCS0 (13.5)
802.11ac 40MHz (CDD)	1 stream 2TX	5230	21.57	18.5	Nss1MCS0 (13.5)
802.11ac 40MHz (CDD)	1 stream 2TX	5755	20.28	17	Nss1MCS0 (13.5)
802.11ac 40MHz (CDD)	1 stream 2TX	5795	20.23	17	Nss1MCS0 (13.5)
802.11ac 40MHz (TxBF)	1 stream 2TX	5190	17.90	14.75	Nss1MCS0 (13.5)
802.11ac 40MHz (TxBF)	1 stream 2TX	5230	21.68	18.5	Nss1MCS0 (13.5)
802.11ac 40MHz (TxBF)	1 stream 2TX	5755	20.26	17	Nss1MCS0 (13.5)
802.11ac 40MHz (TxBF)	1 stream 2TX	5795	20.05	17	Nss1MCS0 (13.5)

3.14 On Time and Duty Cycle

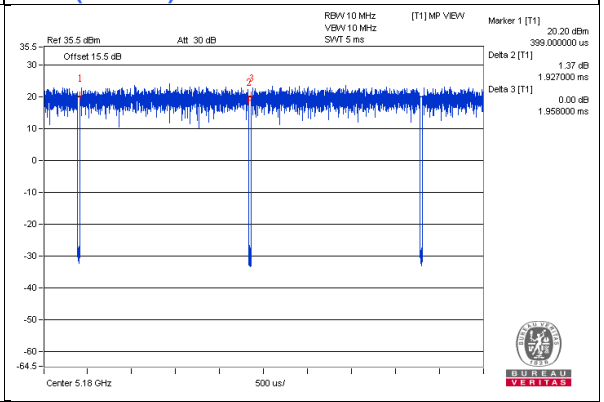
Mode	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
11a 1S2T CDD	2.063	2.091	98.7	-	-
11ac (20MHz) 1S2T CDD	1.927	1.958	98.4	-	-
11ac (20MHz) 1S2T TxBF	1.927	1.959	98.4	-	-
11ac (40MHz) 1S2T CDD	0.951	0.986	96.5	0.16	3
11ac (40MHz) 1S2T TxBF	0.951	0.984	96.6	0.15	3

Note:
1. Power measurement using sweep trigger and gating of the power meter, duty factor is not required.
2. Duty cycle > 98%, duty factor is not required.

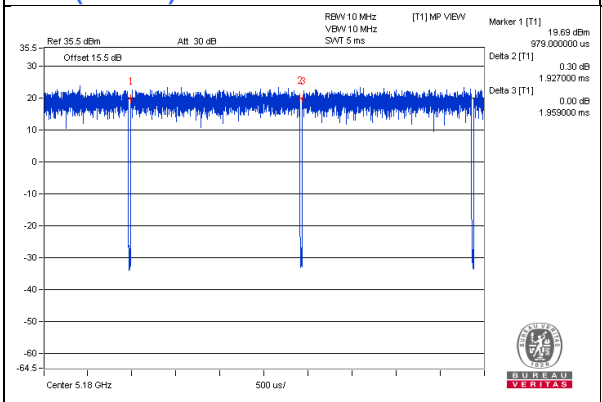
11a 1S2T CDD



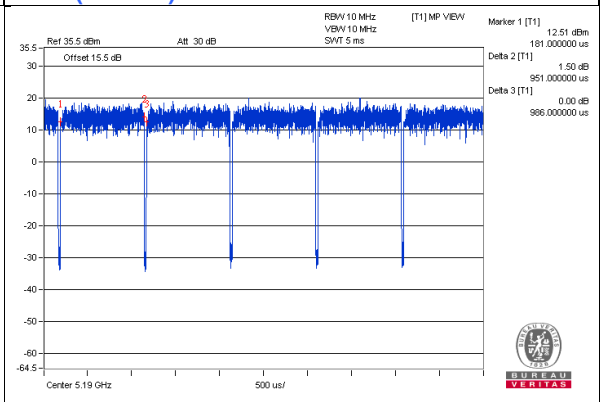
11ac (20MHz) 1S2T CDD



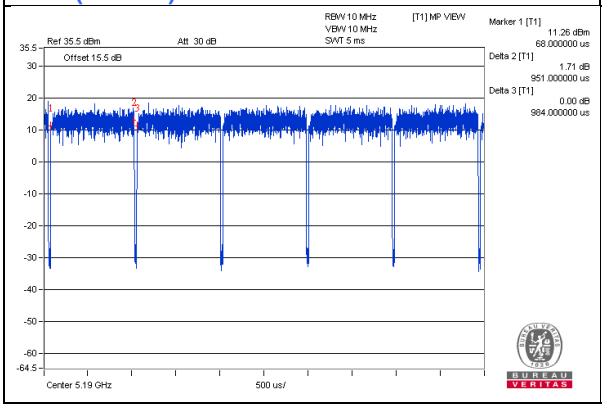
11ac (20MHz) 1S2T TxBF



11ac (40MHz) 1S2T CDD



11ac (40MHz) 1S2T TxBF



3.15 Testing Location Information

Test Site Location					
Lab Address	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.				
TEL	886-3-6668565				
FAX	886-3-6668323				
Test Site No.	**Site Category**	**Location**	**FCC Reg. No.**	**IC Reg. No.**	**VCCI Reg. No**
Conduction 1	Conduction	Hsinchu	-	-	-
Chamber 3	966 Chamber	Hsinchu	147459	20331-1	-
Oven 2	Oven	Hsinchu	-	-	-

3.16 EUT Diagram and Support Equipment

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

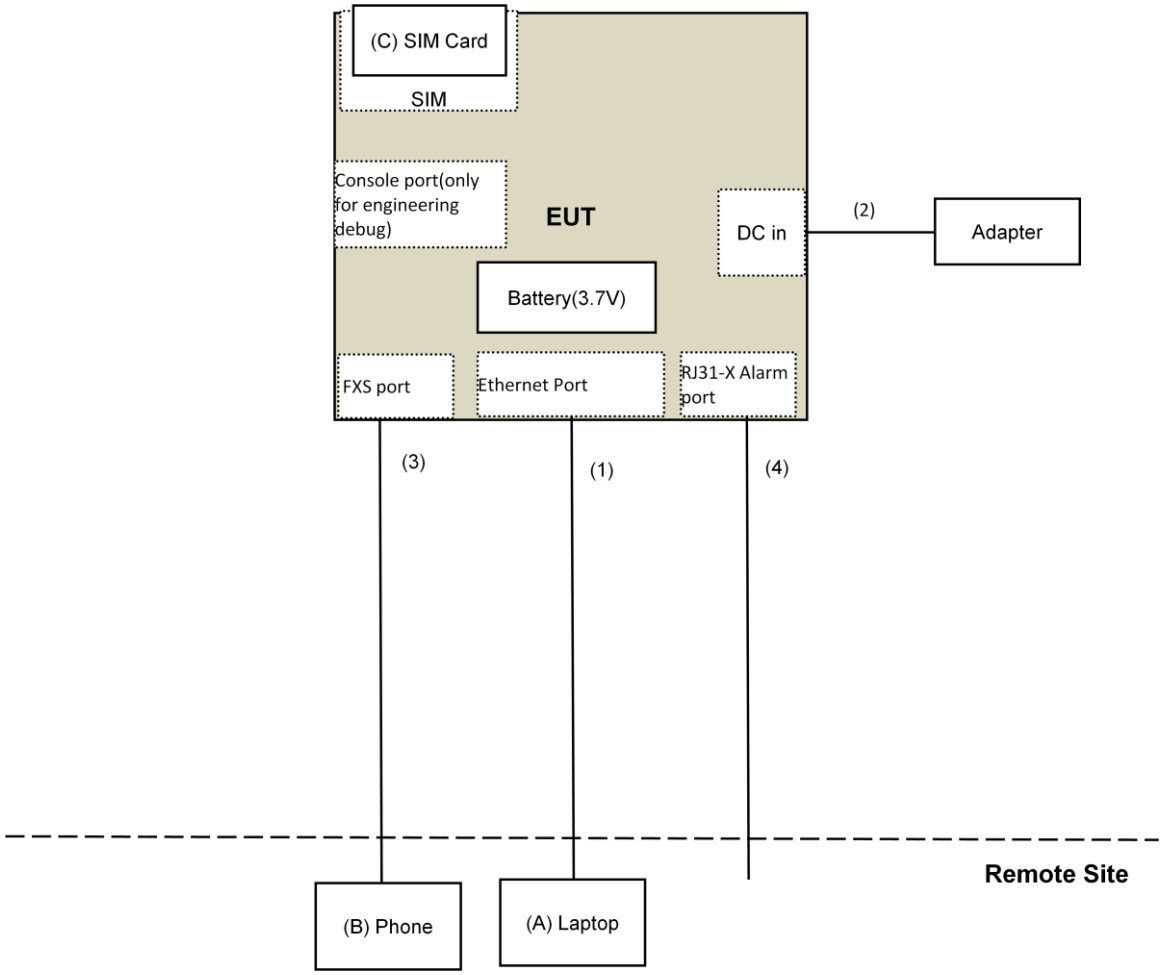
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6440	F9LYQ32	FCC DoC	Provided by Lab
B.	Phone	WONDER	WD-303	8C17DA02763	NA	Provided by Lab
C.	SIM Card	R&S	CRT-Z3	NA	NA	Provided by Lab

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Internal/external connection	Remarks
1.	RJ-45 Cable	1	10	No	0	External	Provided by Lab
2.	DC Cable	1	1.8	No	0	Internal	Supplied by client
3.	RJ-11 Cable	1	10	No	0	External	Provided by Lab
4.	RJ-31 Cable	1	10	No	0	External	Provided by Lab

EUT Diagram


(C) SIM Card
SIM
Console port(only for engineering debug)
EUT
DC in
(2)
Adapter
Battery(3.7V)
FXS port
Ethernet Port
RJ31-X Alarm port
(3)
(1)
(4)
Remote Site
(B) Phone
(A) Laptop

4 Test Types and Results

4.1 AC Power Conducted Emissions Measurement

4.1.1 Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

4.1.2 Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver

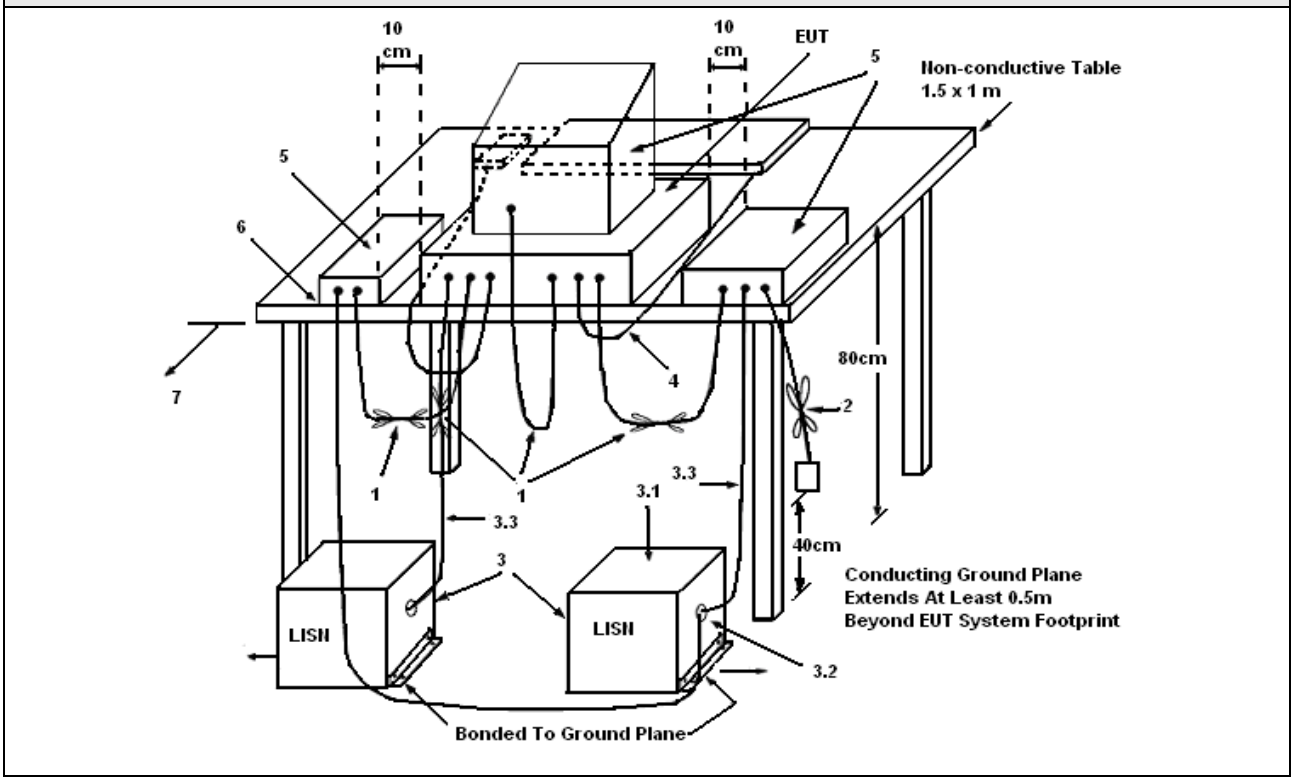
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 kHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4 Test Setup Layout

Test Setup



1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
2. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference ground plane.
   3.1 All other equipment powered from additional LISN(s).
   3.2 Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
   3.3 LISN at least 80 cm from nearest part of EUT chassis.
4. Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
5. Non-EUT components of EUT system being tested.
6. Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
   Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5 Test Deviation

There are no deviations with the original standard.

4.1.6 EUT Operating during Test

The EUT was placed on the test table and programmed in normal function.

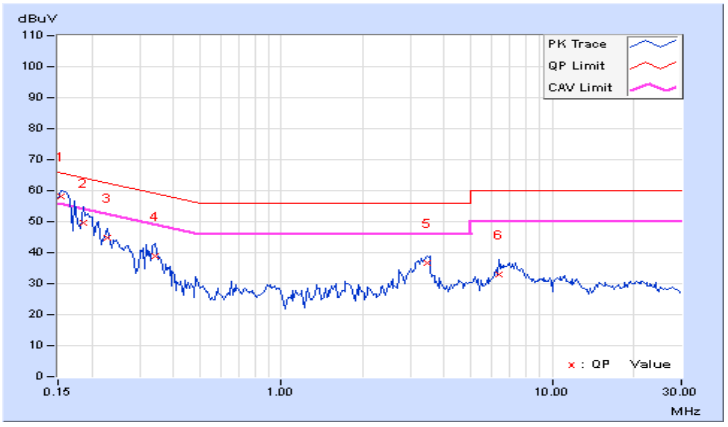
4.1.7 Test Results of AC Power Conducted Emissions

Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	25℃, 75%RH
Tested by	Andy Ho		

Phase Of Power : Line (L)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	0.15391	10.20	47.78	35.96	57.98	46.16	65.79	55.79	-7.81	-9.63
2	0.18516	10.20	39.46	24.08	49.66	34.28	64.25	54.25	-14.59	-19.97
3	0.22812	10.21	34.60	22.39	44.81	32.60	62.52	52.52	-17.71	-19.92
4	0.34141	10.23	28.58	21.89	38.81	32.12	59.17	49.17	-20.36	-17.05
5	3.45313	10.30	26.31	20.61	36.61	30.91	56.00	46.00	-19.39	-15.09
6	6.36328	10.48	22.40	15.47	32.88	25.95	60.00	50.00	-27.12	-24.05

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

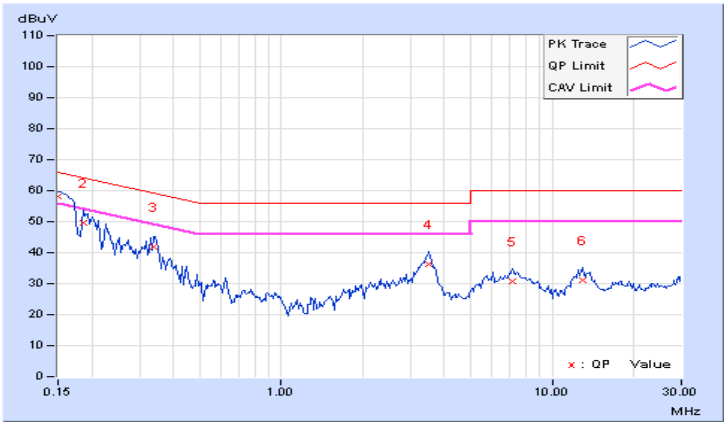


Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	25℃, 75%RH
Tested by	Andy Ho		

Phase Of Power : Neutral (N)										
No	**Frequency (MHz)**	**Correction Factor (dB)**	**Reading Value (dBuV)**		**Emission Level (dBuV)**		**Limit (dBuV)**		**Margin (dB)**	
			Q.P.	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**	**Q.P.**	**AV.**
1	**0.15000**	**10.19**	**48.14**	**34.12**	**58.33**	**44.31**	**66.00**	**56.00**	**-7.67**	**-11.69**
2	0.18516	10.18	39.58	24.00	49.76	34.18	64.25	54.25	-14.49	-20.07
3	0.33750	10.22	31.52	23.62	41.74	33.84	59.26	49.26	-17.52	-15.42
4	3.51172	10.24	26.09	20.45	36.33	30.69	56.00	46.00	-19.67	-15.31
5	7.14844	10.44	20.19	15.01	30.63	25.45	60.00	50.00	-29.37	-24.55
6	12.89844	10.90	20.04	14.60	30.94	25.50	60.00	50.00	-29.06	-24.50

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.2 Occupied Bandwidth and 26dB Bandwidth Measurement

4.2.1 Measuring Instruments and Setting

The following table is the setting of the Spectrum Analyzer.

99% Occupied Bandwidth	
Spectrum Parameter	**Setting**
Attenuation	Auto
Span Frequency	1.5 times to 5.0 times the OBW
RBW	1% to 5% of the anticipated emission bandwidth
VBW	≥ 3 x RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
26dB Bandwidth	
Spectrum Parameter	**Setting**
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	Approximately 1% of the emission bandwidth.
VBW	> RBW.
Detector	Peak
Trace	Max hold
Sweep Time	Auto

4.2.2 Test Procedure

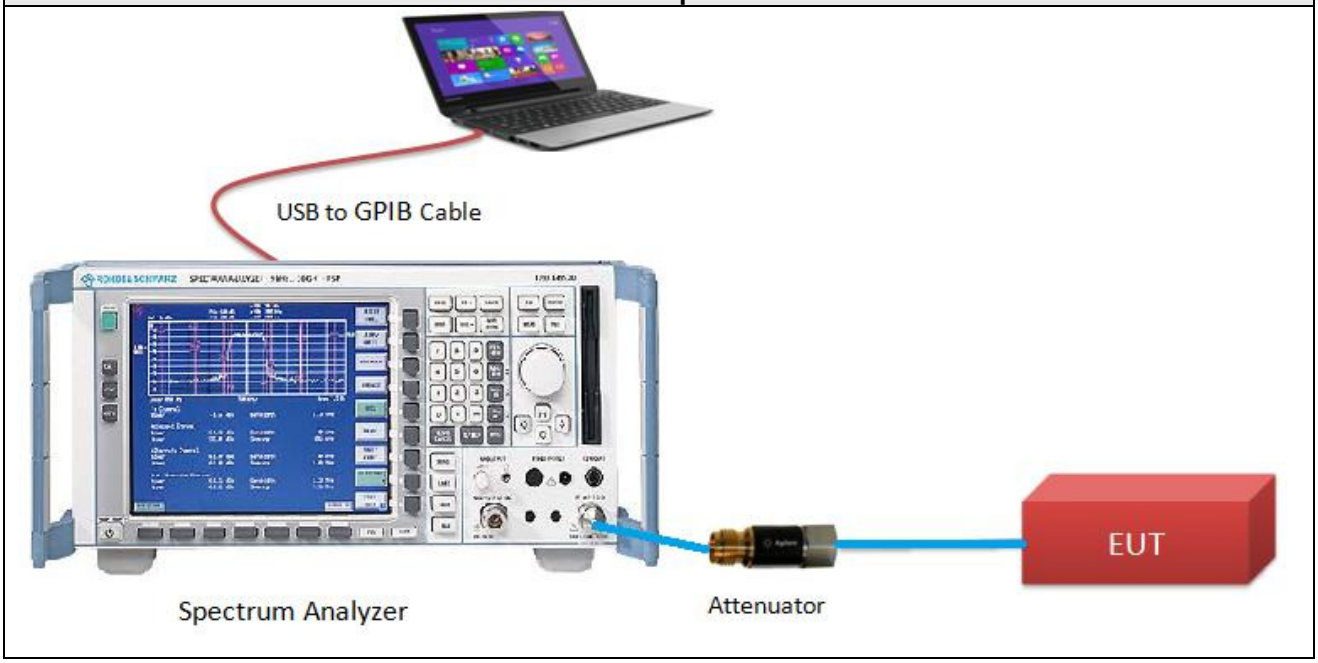
1 The transmitter output (antenna port) was connected to the spectrum analyzer.

2 Test was performed in accordance with Measurement of Digital Transmission Systems Operating under 789033 D02 General UNII Test Procedures New Rules v01r03, in section "99 Percent Occupied Bandwidth"(D). 08/22,2016.

3 When measuring Emission bandwidth with multiple antenna systems, add every result of the values by mathematic formula.

4.2.3 Test Setup Layout

Setup



4.2.4 Test Deviation

There are no deviations with the original standard.

4.2.5 EUT Operating Conditions

The EUT was programmed to be in continuously transmitting mode.

4.2.6 Test Results

Temperature	22°C	Humidity	60%
Test Engineer	Anderson Chen		

11a 1S2T CDD

CHANNEL	FREQUENCY (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
		CHAIN 1	CHAIN 2	CHAIN 1	CHAIN 2
36	5180	26.76	21.73	17.04	16.92
40	5200	33.67	29.67	17.28	16.92
48	5240	31.71	27.66	17.04	17.04
149	5745	27.20	34.02	18.00	18.48
157	5785	27.50	33.72	17.16	17.16
165	5825	27.34	33.89	17.04	17.40

11ac (20MHz) 1S2T CDD

CHANNEL	FREQUENCY (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
		CHAIN 1	CHAIN 2	CHAIN 1	CHAIN 2
36	5180	27.78	24.99	18.00	17.88
40	5200	39.82	32.55	18.84	18.12
48	5240	36.54	32.53	18.00	18.12
149	5745	26.67	40.84	18.72	19.32
157	5785	33.88	37.37	18.12	18.48
165	5825	29.82	37.48	18.00	18.36

11ac (20MHz) 1S2T TxBF

CHANNEL	FREQUENCY (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
		CHAIN 1	CHAIN 2	CHAIN 1	CHAIN 2
36	5180	25.81	30.01	18.00	18.12
40	5200	42.17	32.55	19.44	18.12
48	5240	33.38	30.29	18.24	18.00
149	5745	35.90	33.64	18.00	18.36
157	5785	30.59	42.33	18.24	19.56
165	5825	34.19	35.74	18.12	18.36

11ac (40MHz) 1S2T CDD

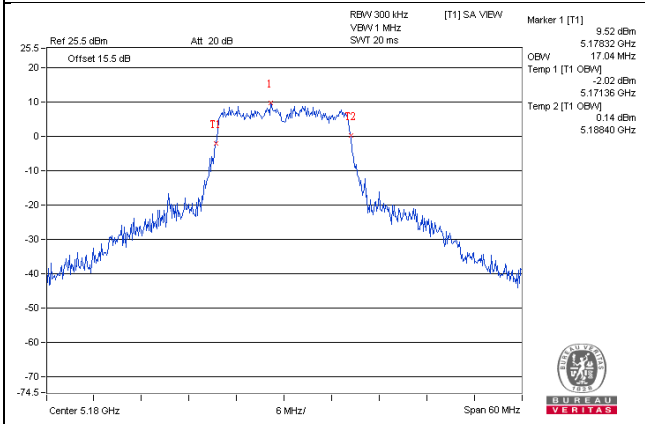
CHANNEL	FREQUENCY (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
		CHAIN 1	CHAIN 2	CHAIN 1	CHAIN 2
38	5190	49.25	41.30	36.72	36.72
46	5230	59.30	56.22	36.96	36.72
151	5755	46.13	71.07	36.72	36.96
159	5795	44.71	59.10	36.72	36.96

11ac (40MHz) 1S2T TxBF

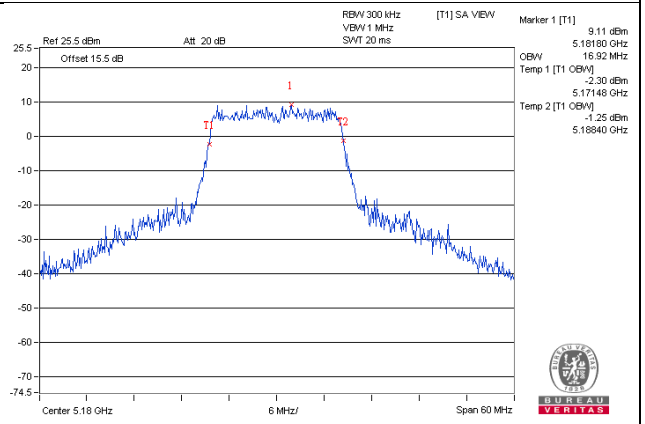
CHANNEL	FREQUENCY (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
		CHAIN 1	CHAIN 2	CHAIN 1	CHAIN 2
38	5190	41.58	41.40	36.72	36.72
46	5230	57.99	53.10	36.96	36.72
151	5755	56.91	58.58	36.72	36.72
159	5795	51.50	73.64	36.72	36.96

99% OCCUPIED BANDWIDTH SPECTRUM PLOT

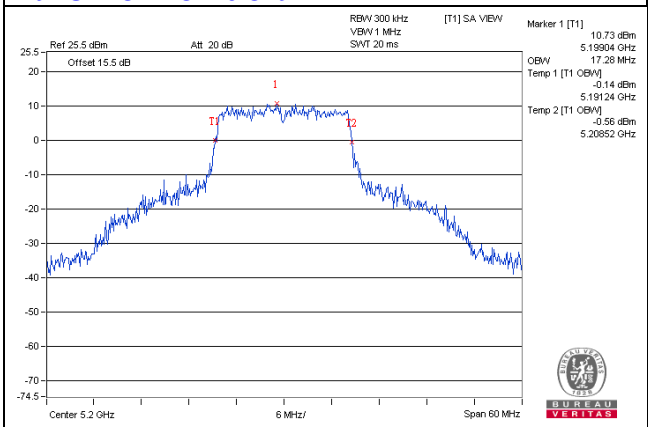
11a 1S2T CDD CH36 Chain1



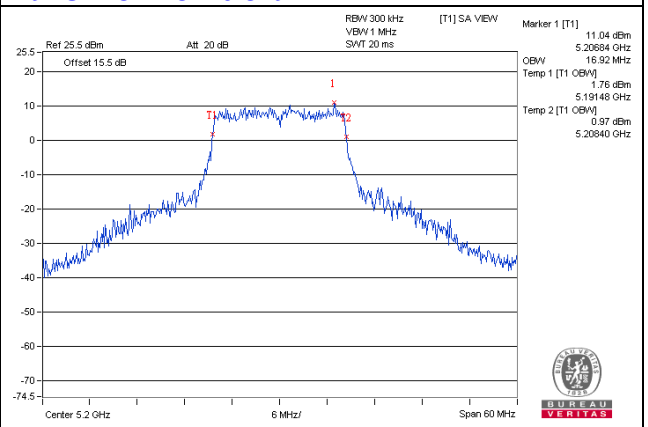
11a 1S2T CDD CH36 Chain2



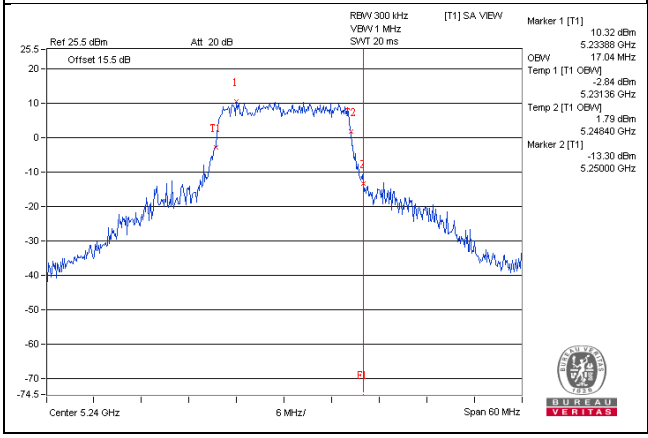
11a 1S2T CDD CH40 Chain1



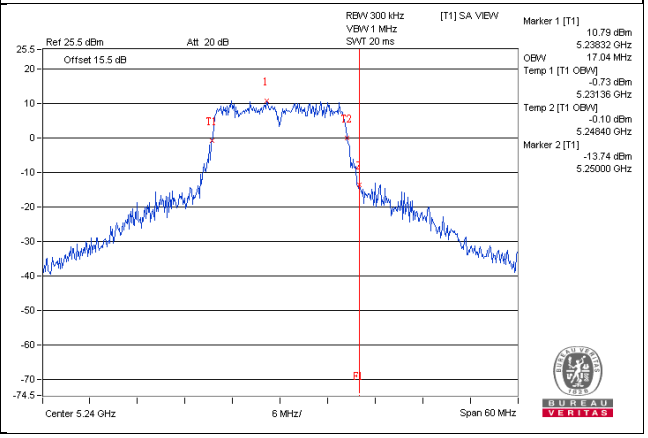
11a 1S2T CDD CH40 Chain2



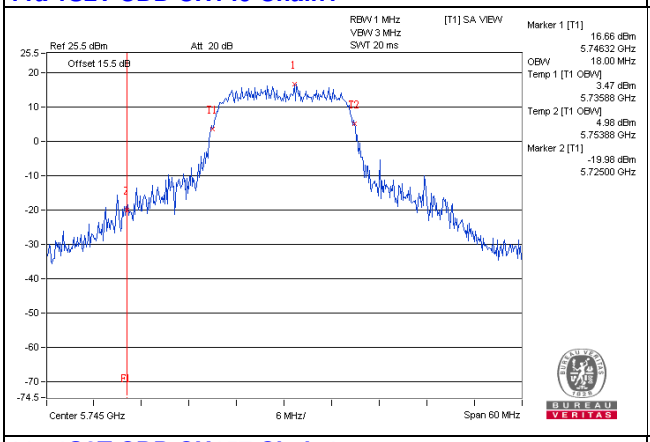
11a 1S2T CDD CH48 Chain1



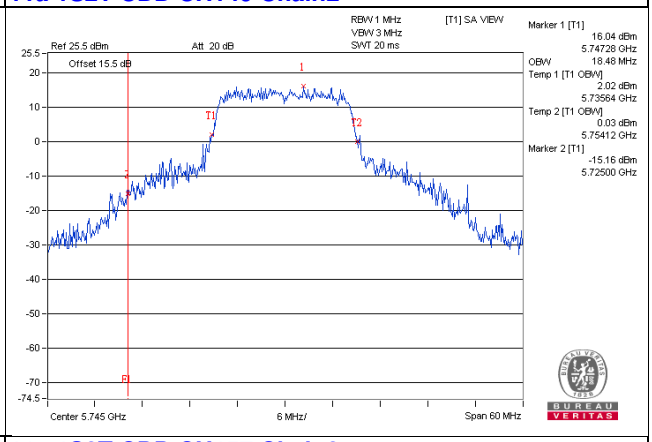
11a 1S2T CDD CH48 Chain2



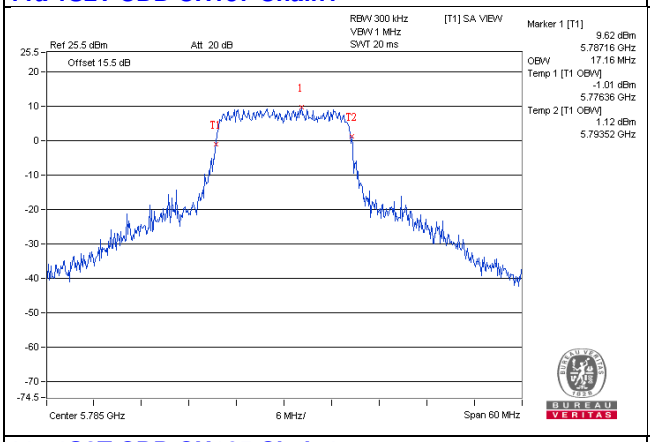
11a 1S2T CDD CH149 Chain1



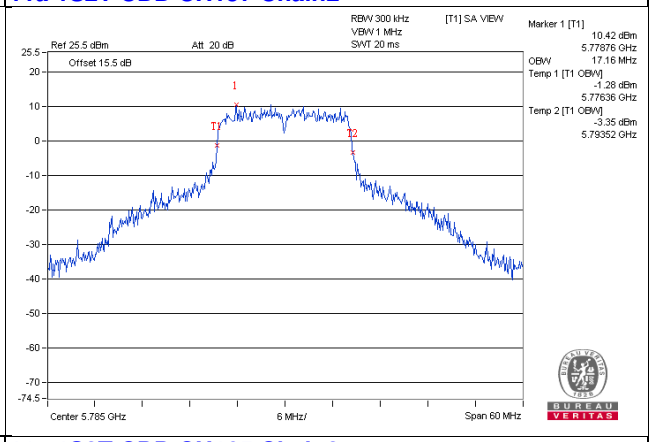
11a 1S2T CDD CH149 Chain2



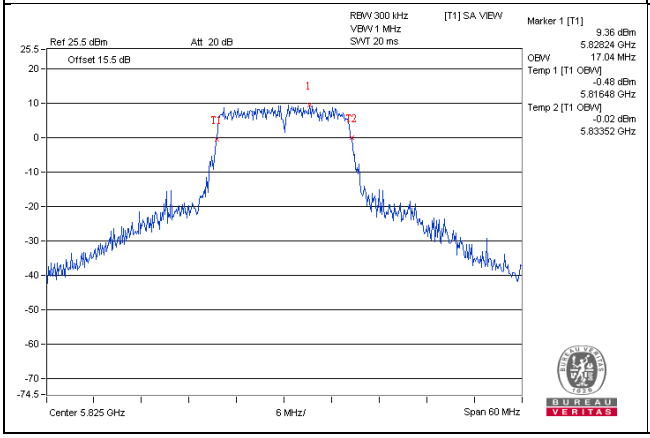
11a 1S2T CDD CH157 Chain1



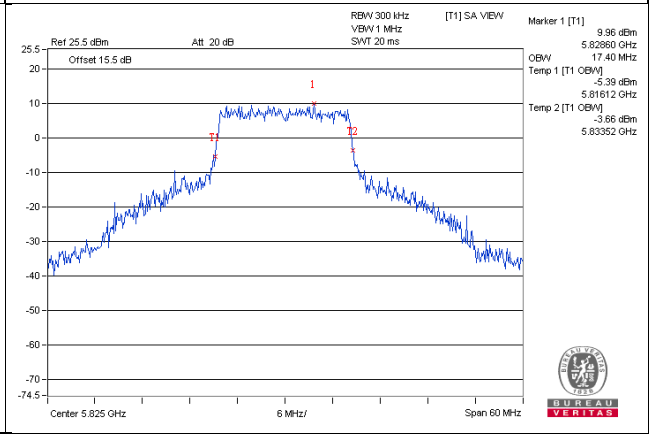
11a 1S2T CDD CH157 Chain2



11a 1S2T CDD CH165 Chain1

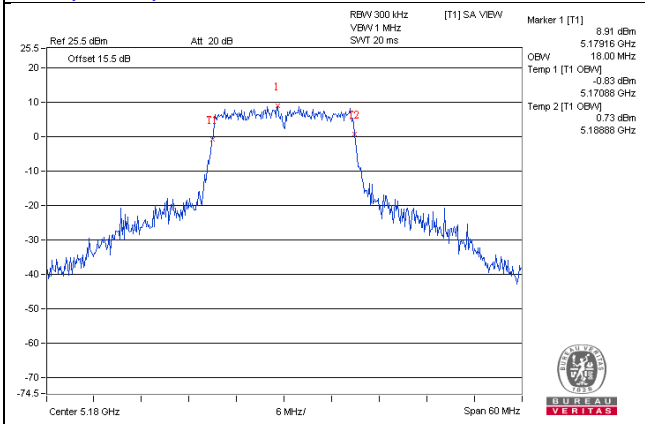


11a 1S2T CDD CH165 Chain2

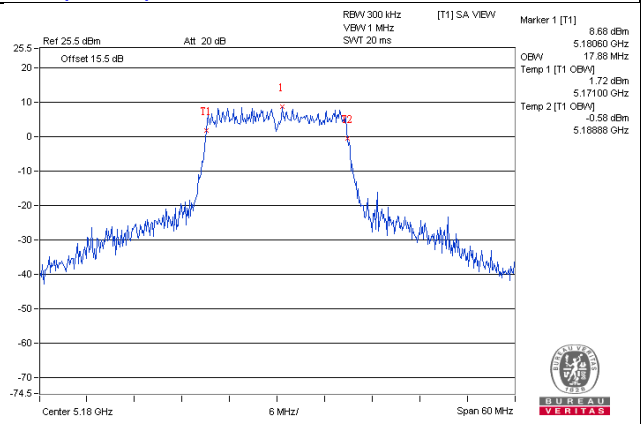


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

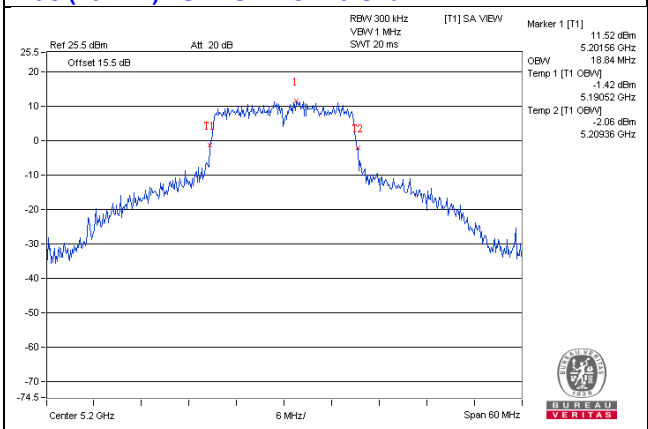
11ac (20MHz) 1S2T CDD CH36 Chain1



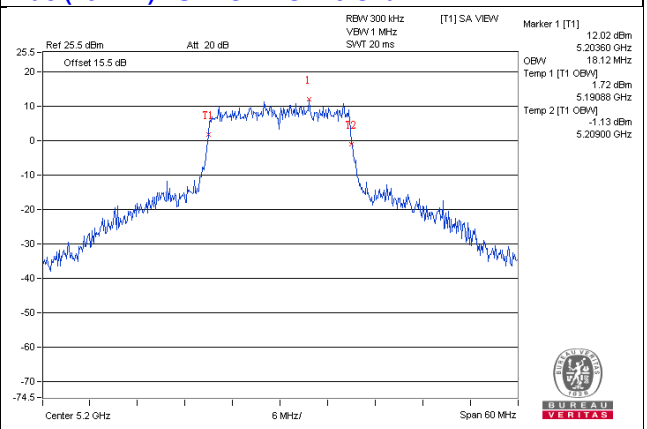
11ac (20MHz) 1S2T CDD CH36 Chain2



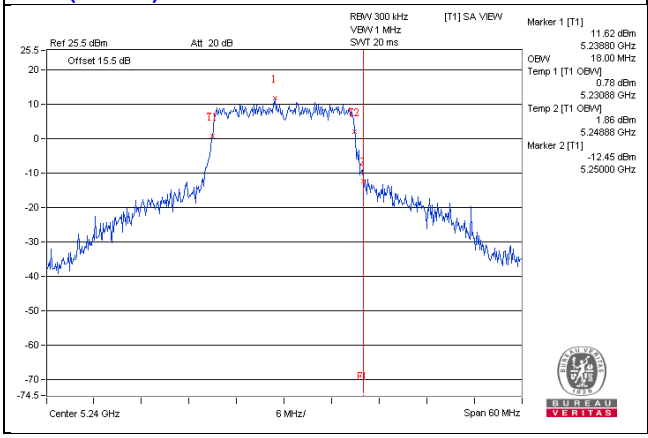
11ac (20MHz) 1S2T CDD CH40 Chain1



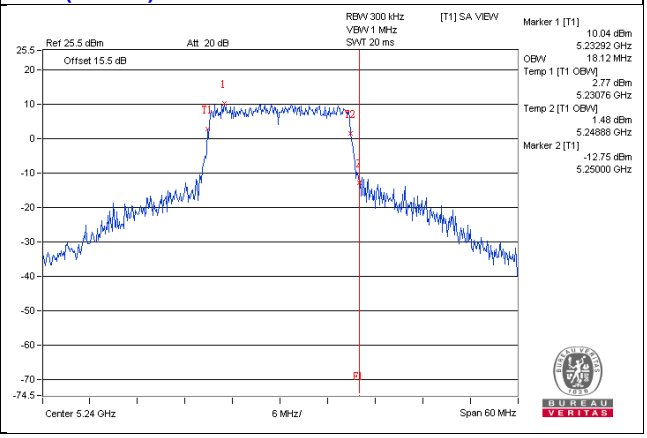
11ac (20MHz) 1S2T CDD CH40 Chain2



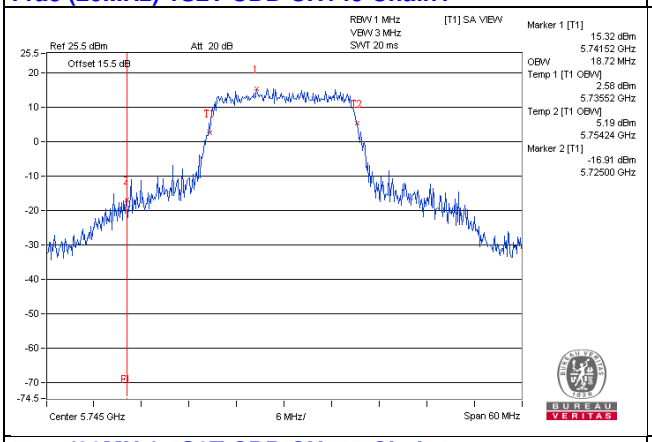
11ac (20MHz) 1S2T CDD CH48 Chain1



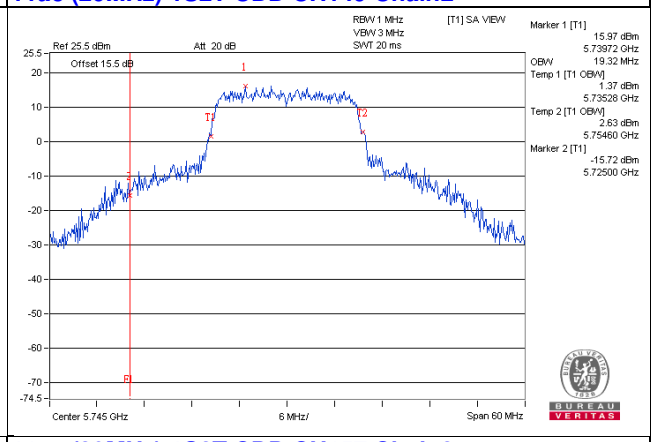
11ac (20MHz) 1S2T CDD CH48 Chain2



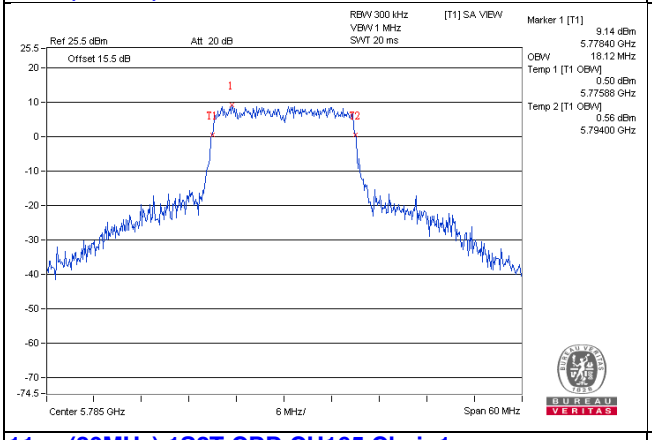
11ac (20MHz) 1S2T CDD CH149 Chain1



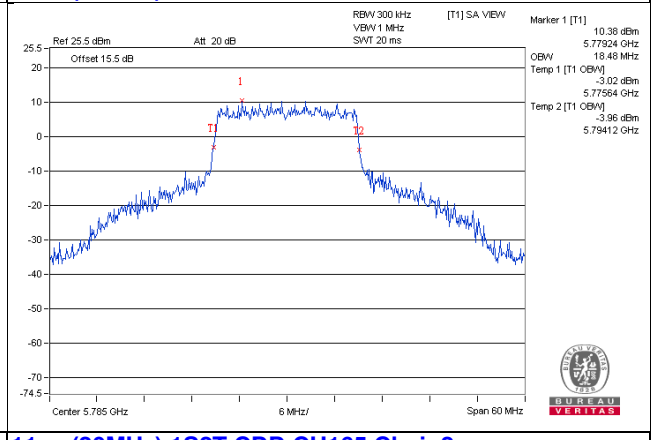
11ac (20MHz) 1S2T CDD CH149 Chain2



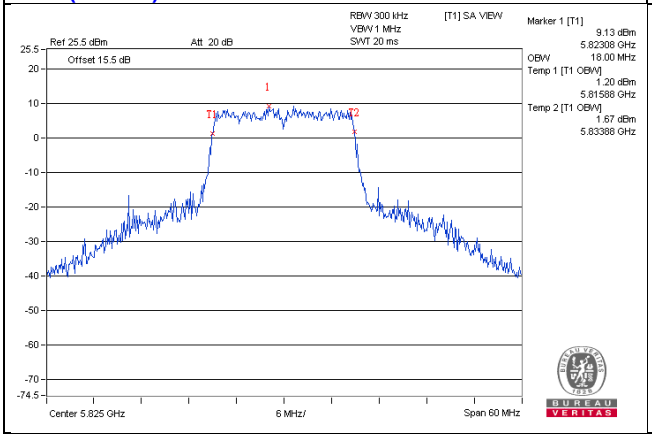
11ac (20MHz) 1S2T CDD CH157 Chain1



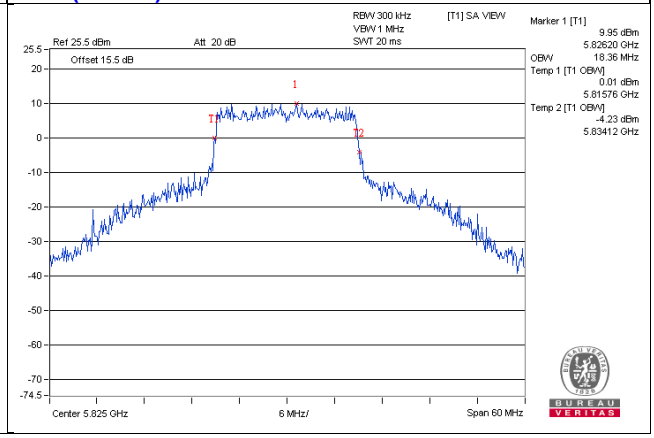
11ac (20MHz) 1S2T CDD CH157 Chain2



11ac (20MHz) 1S2T CDD CH165 Chain1

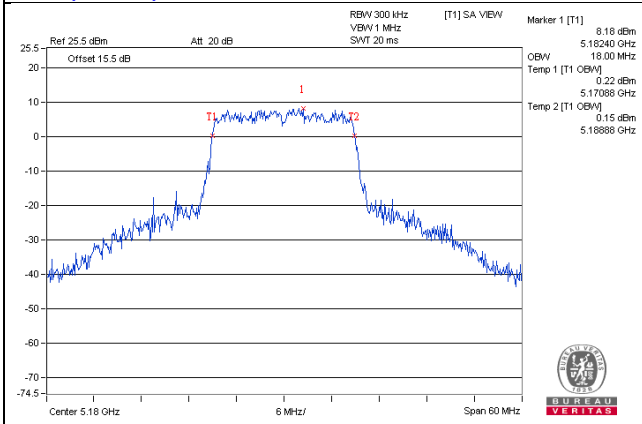


11ac (20MHz) 1S2T CDD CH165 Chain2

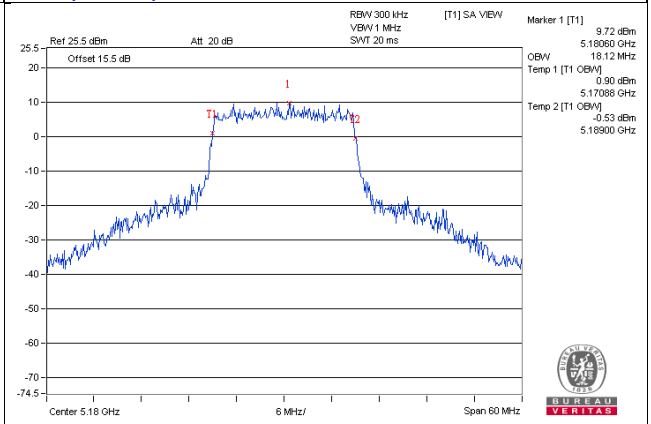


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

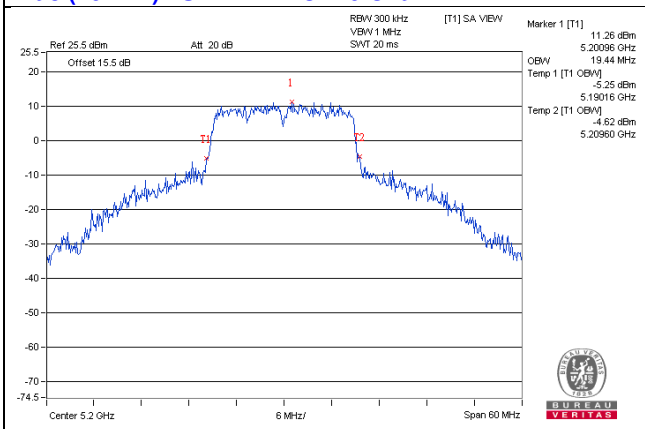
11ac (20MHz) 1S2T TXBF CH36 Chain1



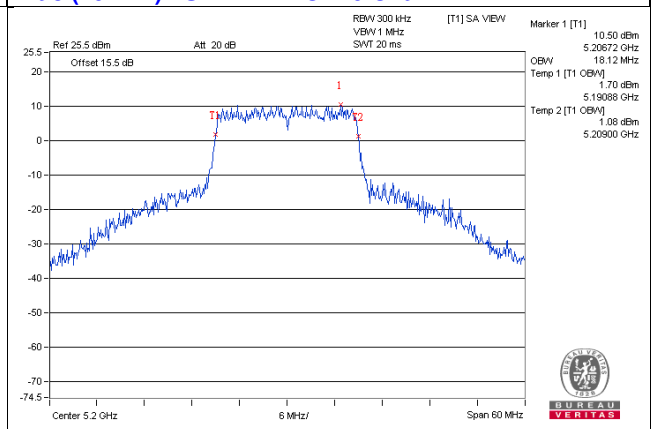
11ac (20MHz) 1S2T TXBF CH36 Chain2



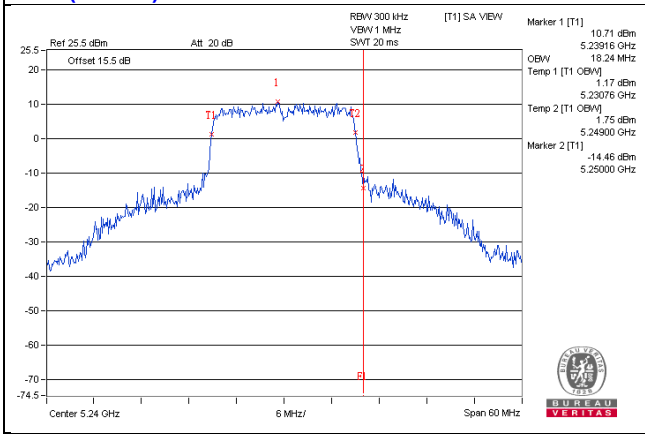
11ac (20MHz) 1S2T TXBF CH40 Chain1



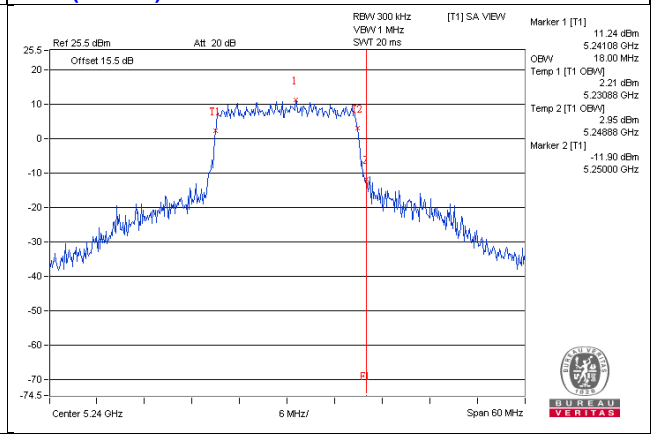
11ac (20MHz) 1S2T TXBF CH40 Chain2



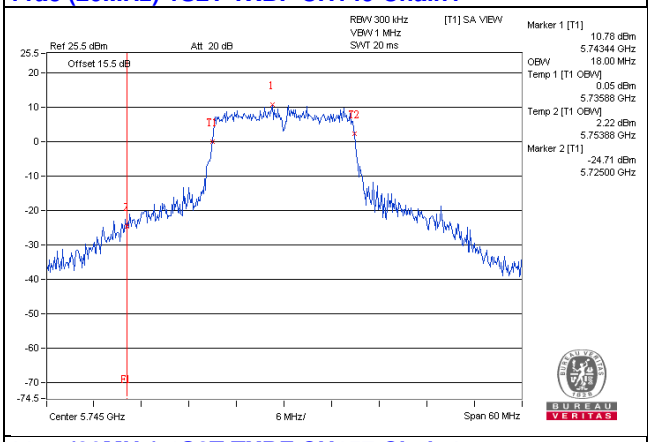
11ac (20MHz) 1S2T TXBF CH48 Chain1



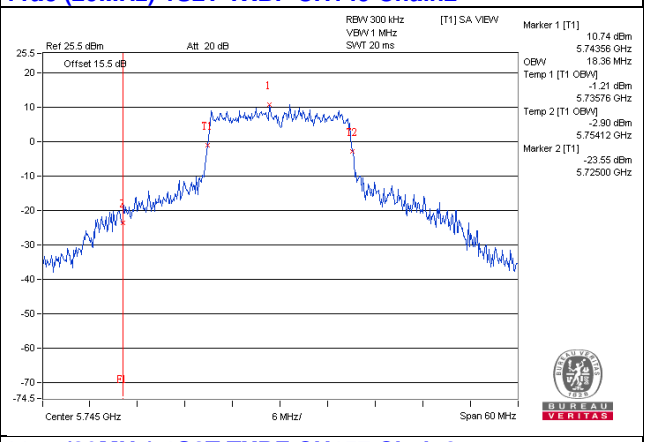
11ac (20MHz) 1S2T TXBF CH48 Chain2



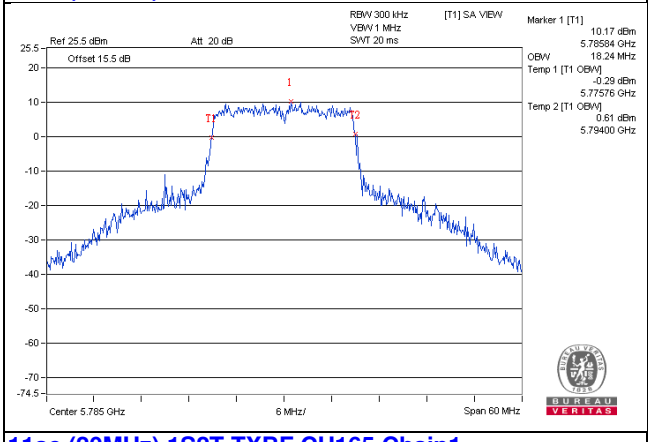
11ac (20MHz) 1S2T TXBF CH149 Chain1



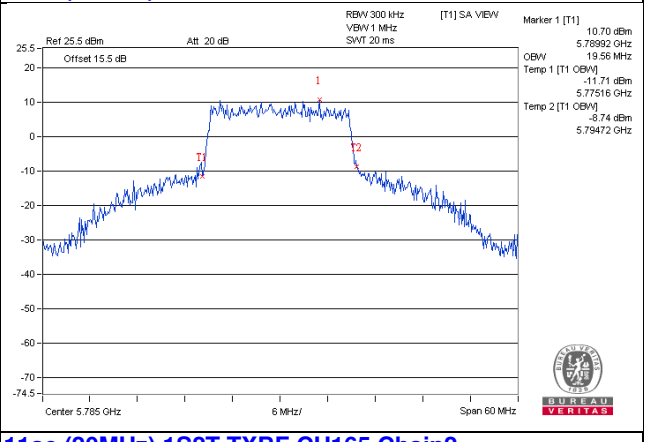
11ac (20MHz) 1S2T TXBF CH149 Chain2



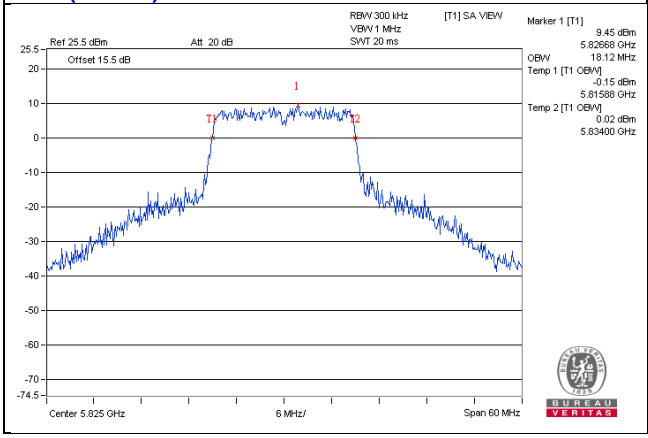
11ac (20MHz) 1S2T TXBF CH157 Chain1



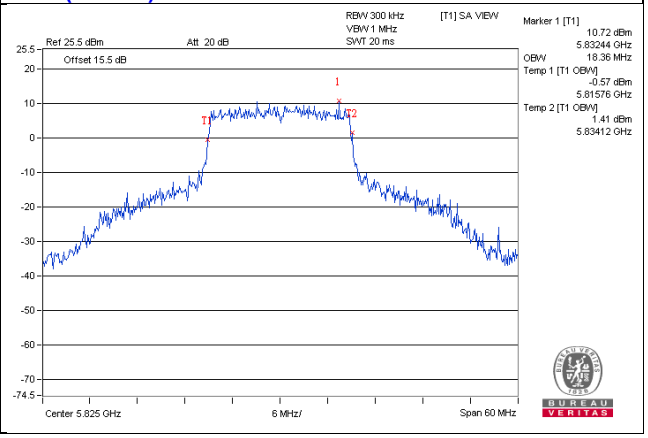
11ac (20MHz) 1S2T TXBF CH157 Chain2



11ac (20MHz) 1S2T TXBF CH165 Chain1

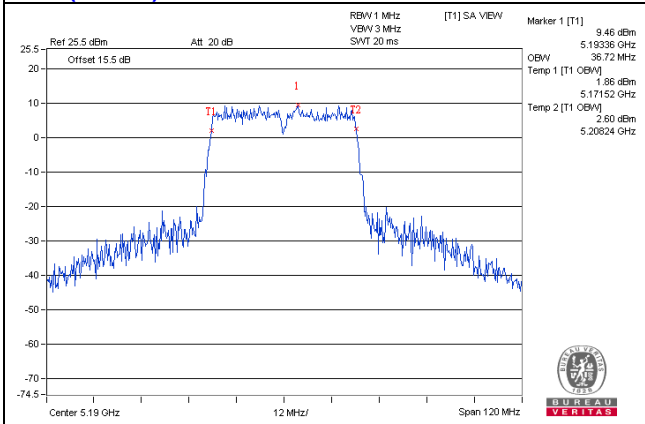


11ac (20MHz) 1S2T TXBF CH165 Chain2

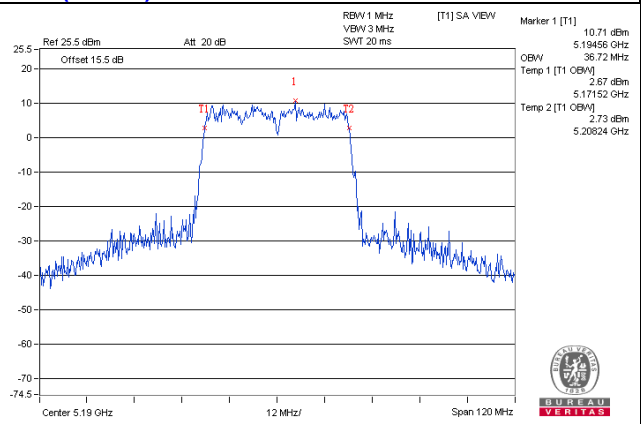


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

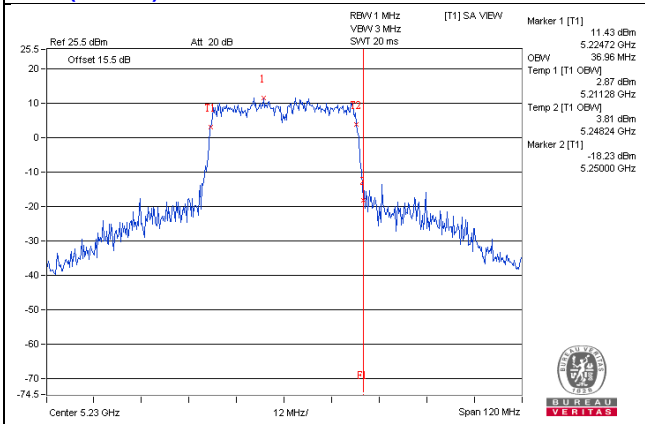
11ac (40MHz) 1S2T CDD CH38 Chain1



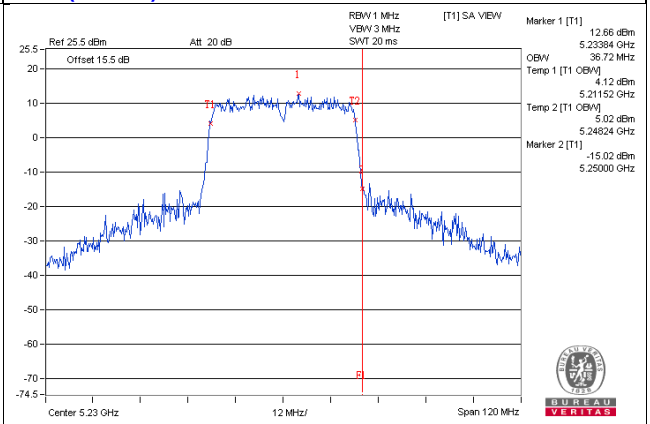
11ac (40MHz) 1S2T CDD CH38 Chain2



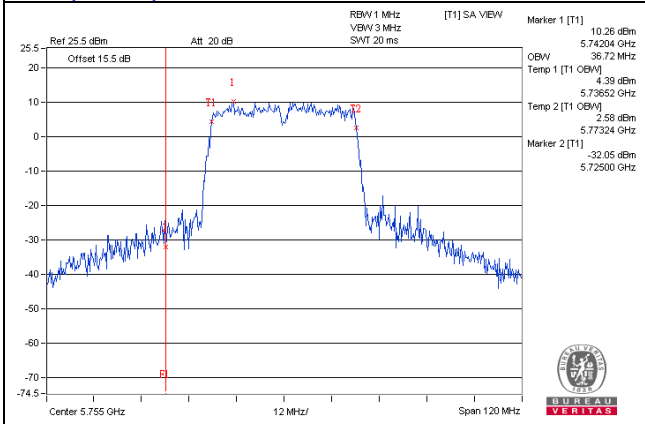
11ac (40MHz) 1S2T CDD CH46 Chain1



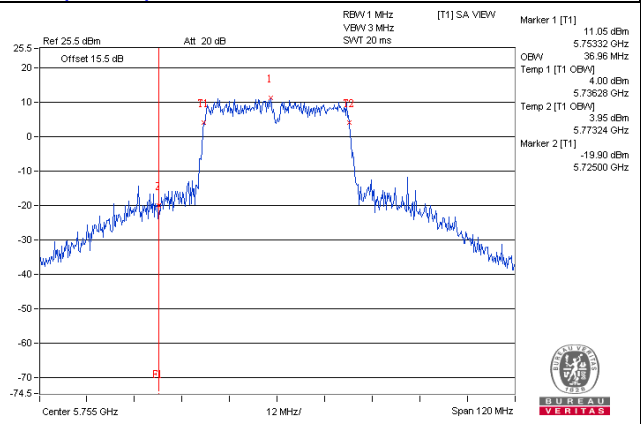
11ac (40MHz) 1S2T CDD CH46 Chain2



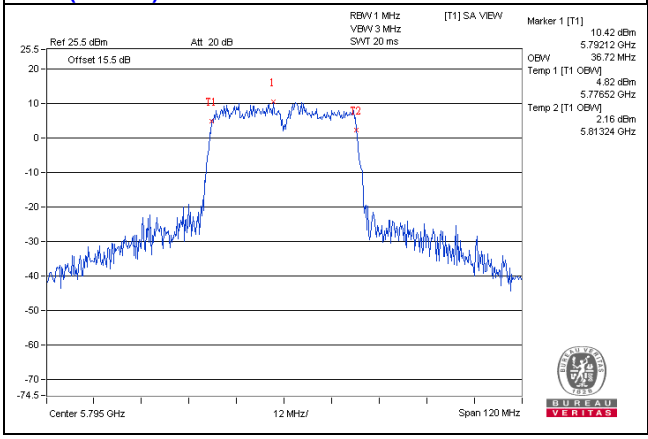
11ac (40MHz) 1S2T CDD CH151 Chain1



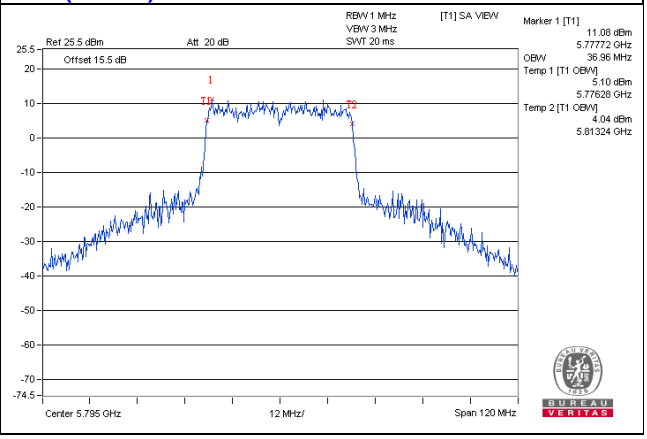
11ac (40MHz) 1S2T CDD CH151 Chain2



11ac (40MHz) 1S2T CDD CH159 Chain1

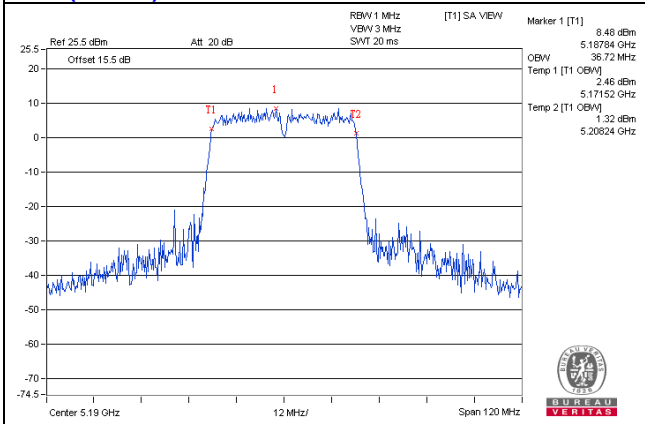


11ac (40MHz) 1S2T CDD CH159 Chain2

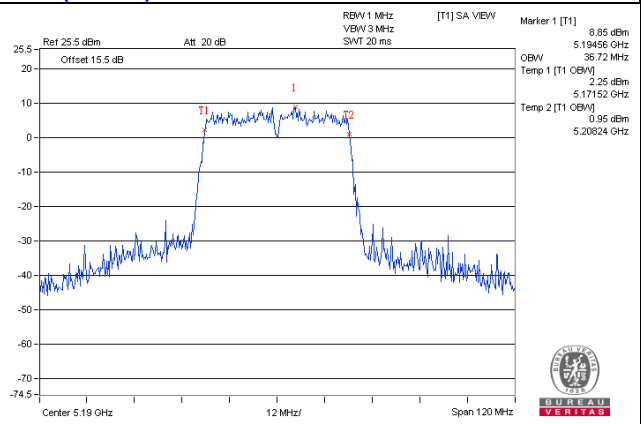


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

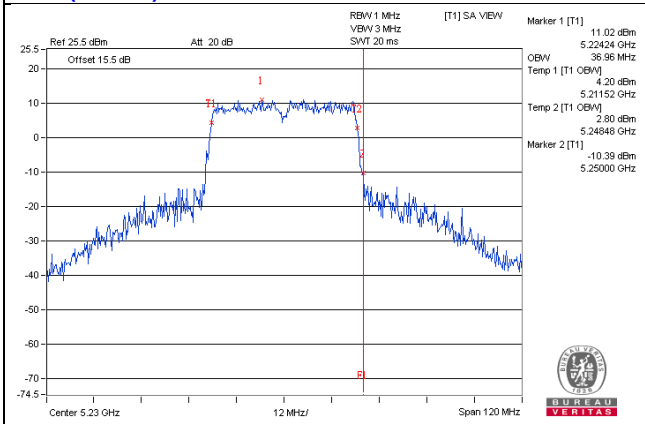
11ac (40MHz) 1S2T TXBF CH38 Chain1



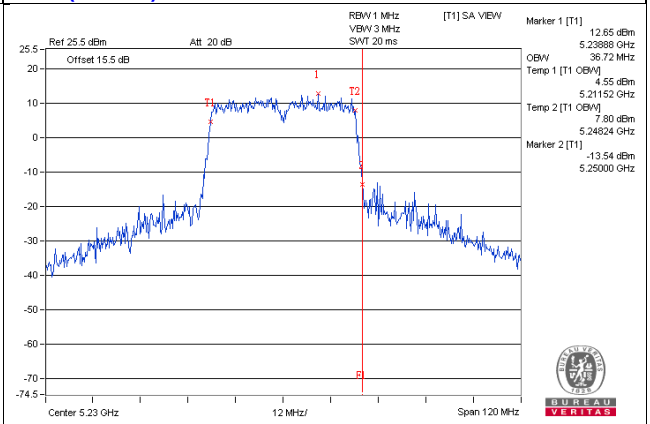
11ac (40MHz) 1S2T TXBF CH38 Chain2



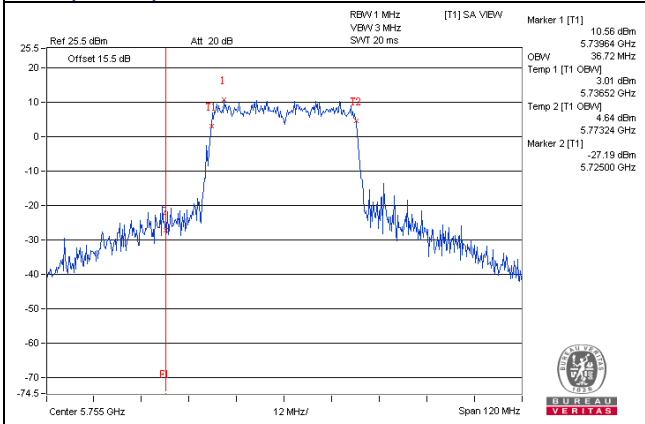
11ac (40MHz) 1S2T TXBF CH46 Chain1



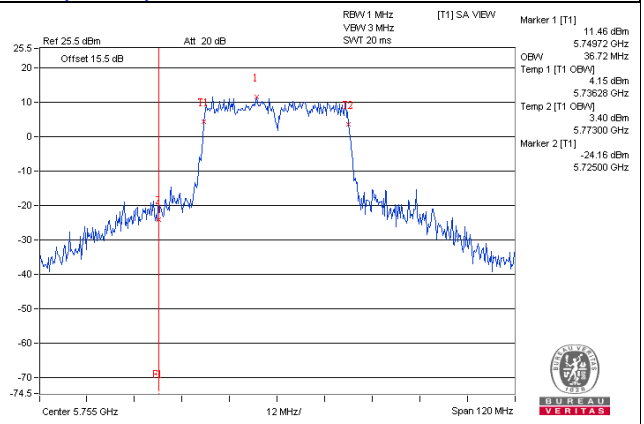
11ac (40MHz) 1S2T TXBF CH46 Chain2



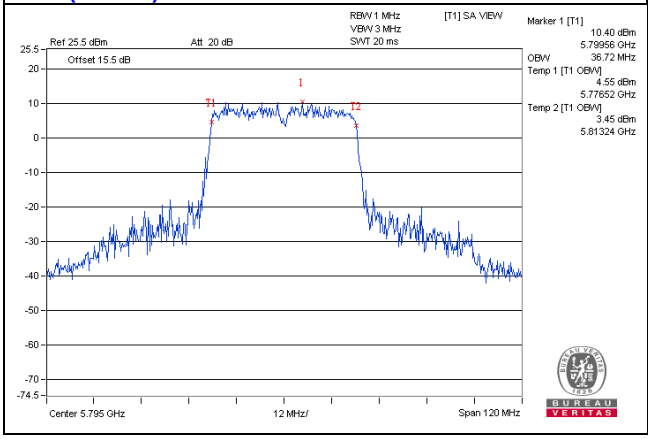
11ac (40MHz) 1S2T TXBF CH151 Chain1



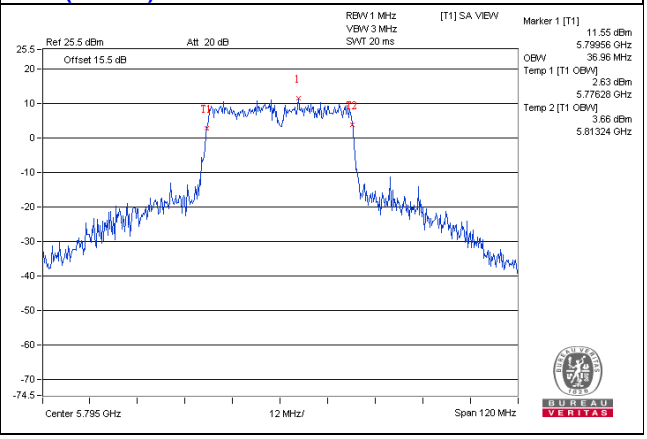
11ac (40MHz) 1S2T TXBF CH151 Chain2



11ac (40MHz) 1S2T TXBF CH159 Chain1

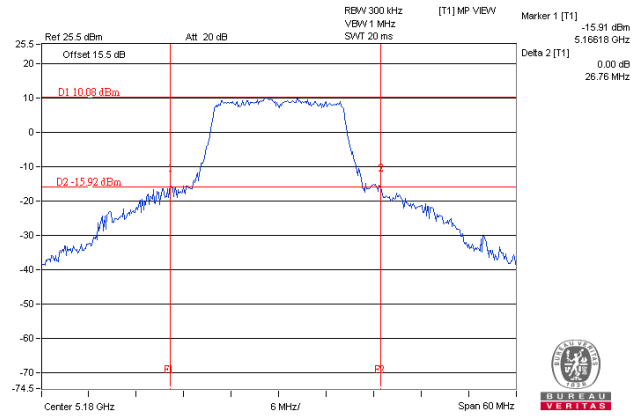


11ac (40MHz) 1S2T TXBF CH159 Chain2

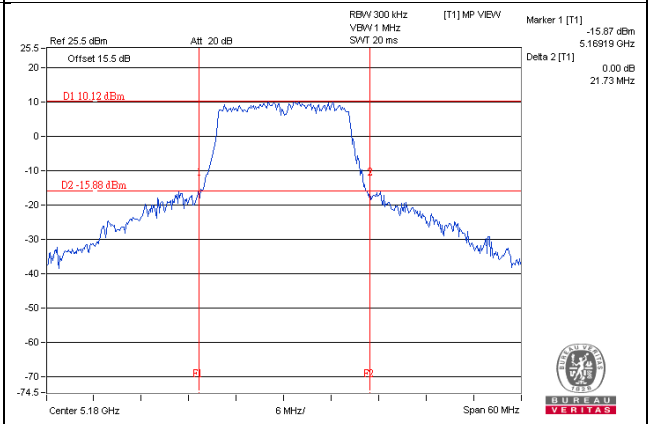


26dB BANDWIDTH SPECTRUM PLOT

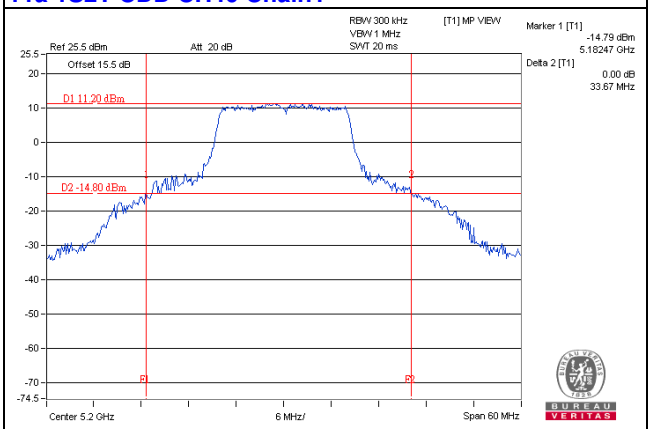
11a 1S2T CDD CH36 Chain1



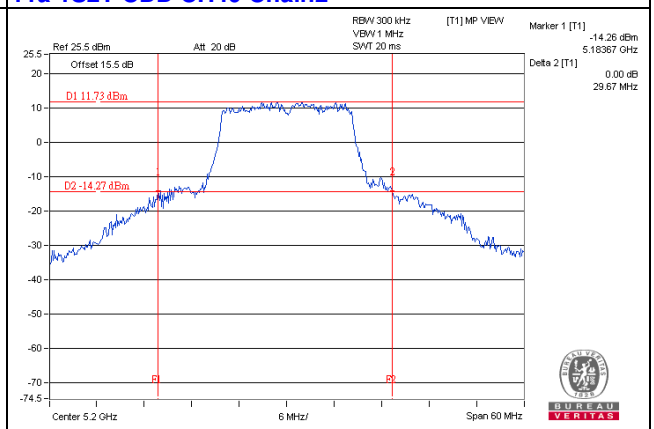
11a 1S2T CDD CH36 Chain2



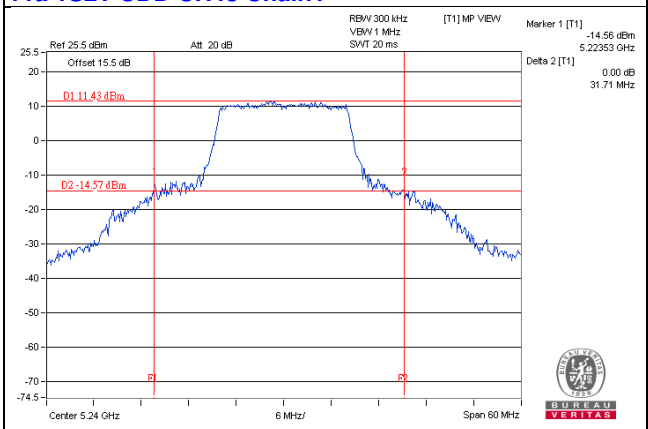
11a 1S2T CDD CH40 Chain1



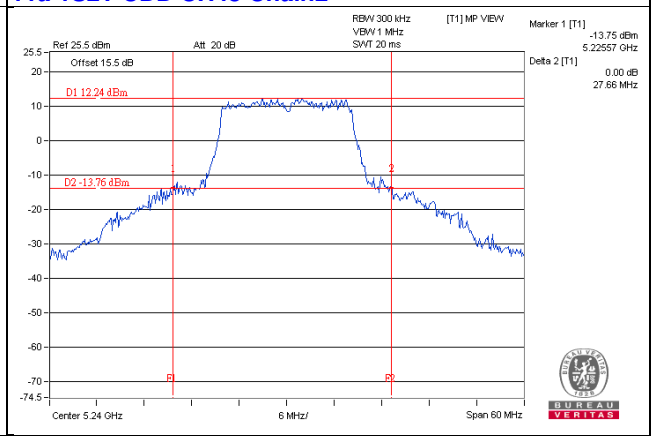
11a 1S2T CDD CH40 Chain2



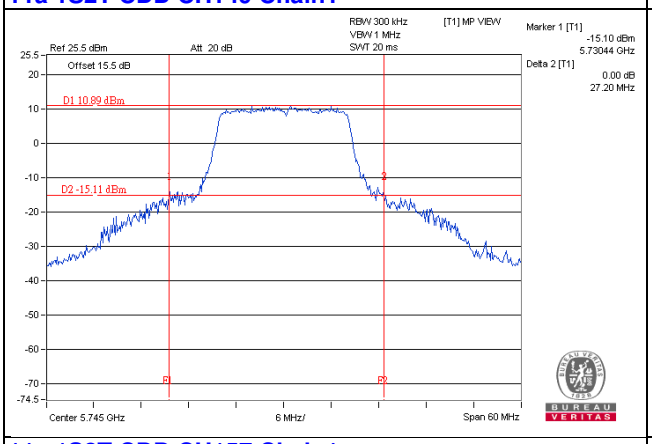
11a 1S2T CDD CH48 Chain1



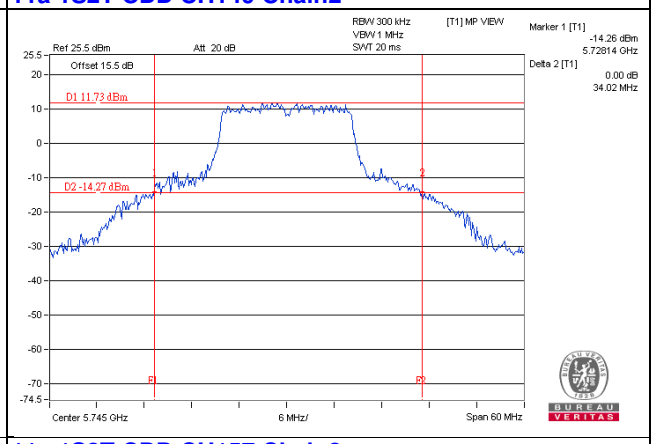
11a 1S2T CDD CH48 Chain2



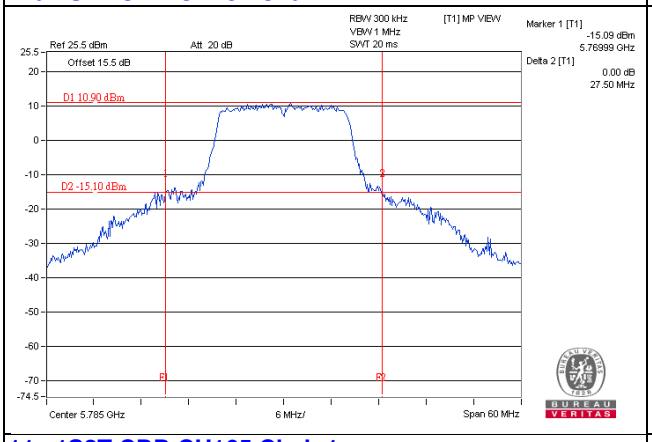
11a 1S2T CDD CH149 Chain1



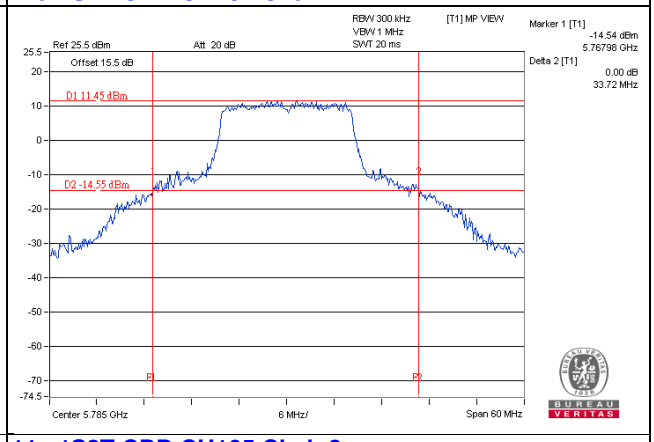
11a 1S2T CDD CH149 Chain2



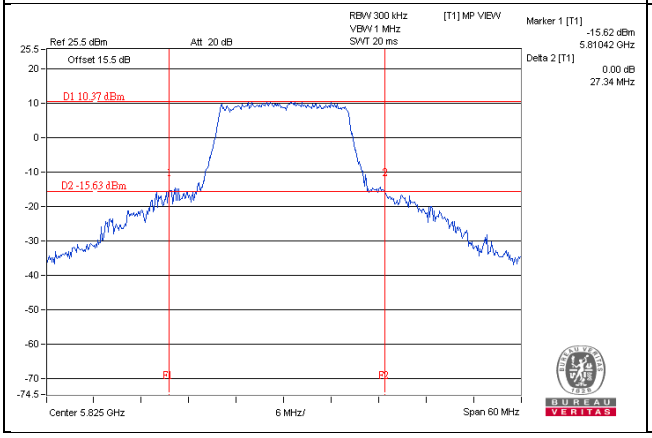
11a 1S2T CDD CH157 Chain1



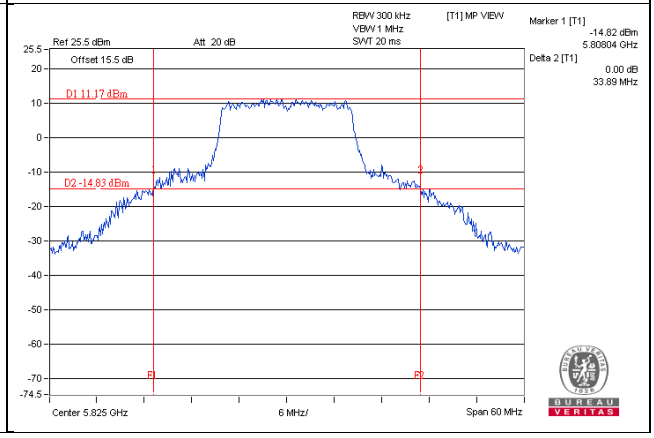
11a 1S2T CDD CH157 Chain2



11a 1S2T CDD CH165 Chain1

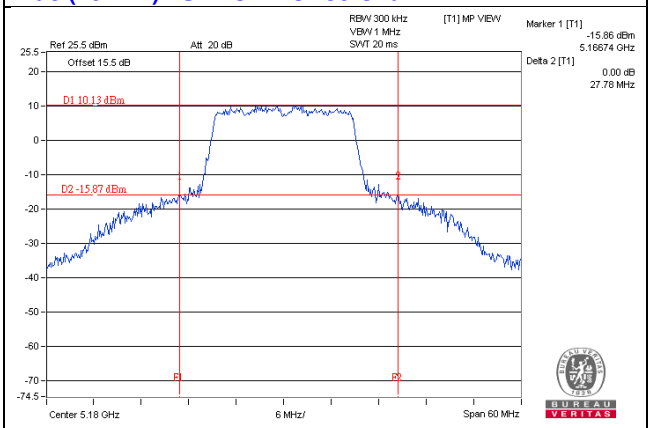


11a 1S2T CDD CH165 Chain2

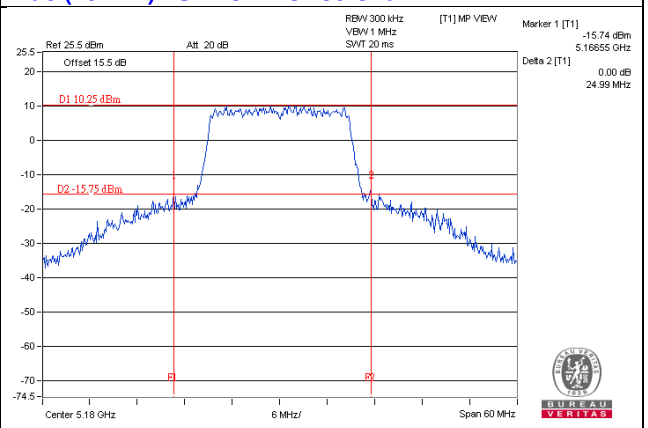


26dB BANDWIDTH SPECTRUM PLOT

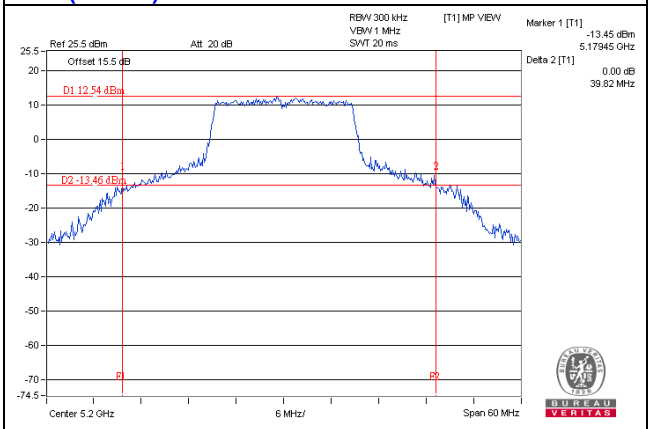
11ac (20MHz) 1S2T CDD CH36 Chain1



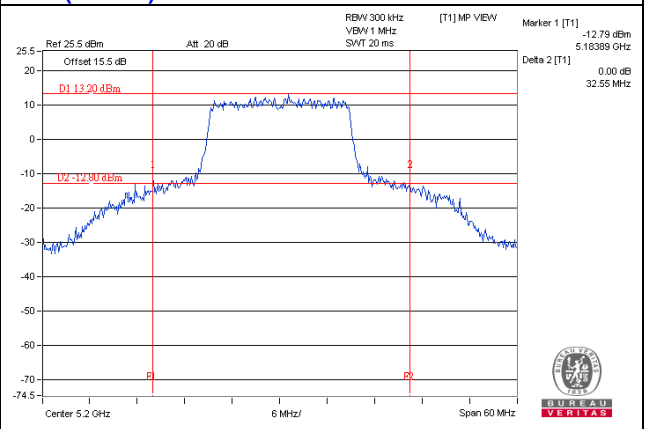
11ac (20MHz) 1S2T CDD CH36 Chain2



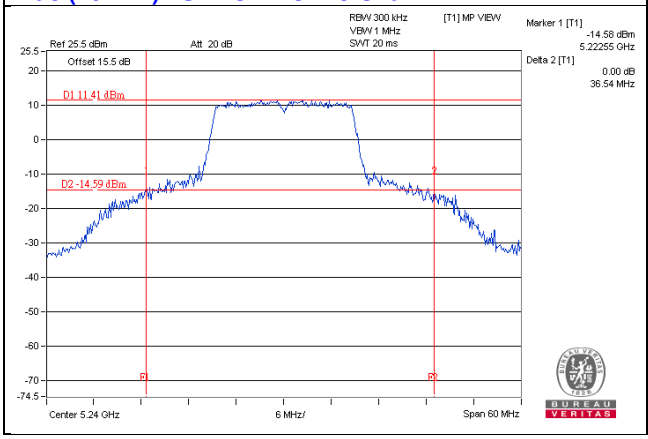
11ac (20MHz) 1S2T CDD CH40 Chain1



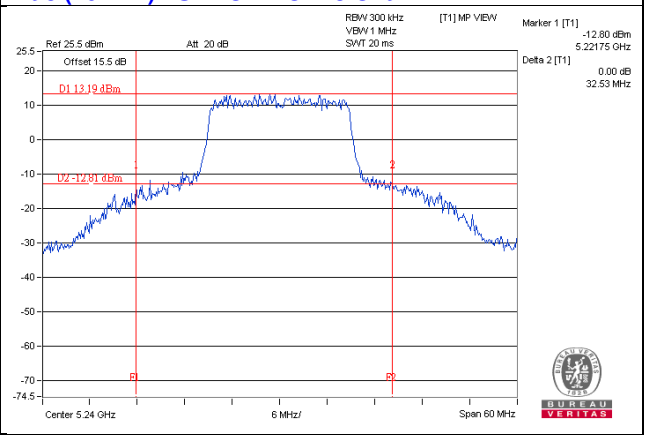
11ac (20MHz) 1S2T CDD CH40 Chain2



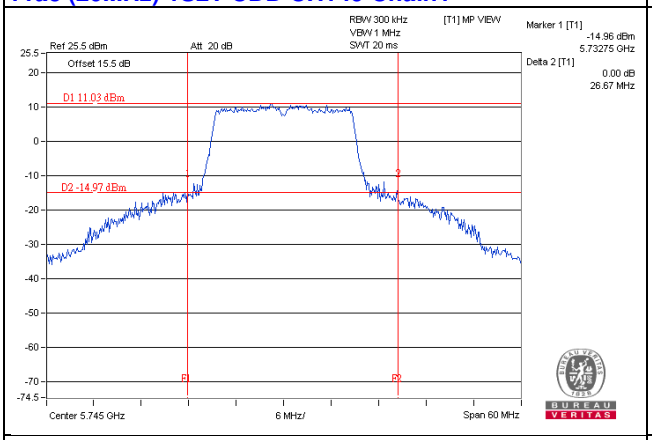
11ac (20MHz) 1S2T CDD CH48 Chain1



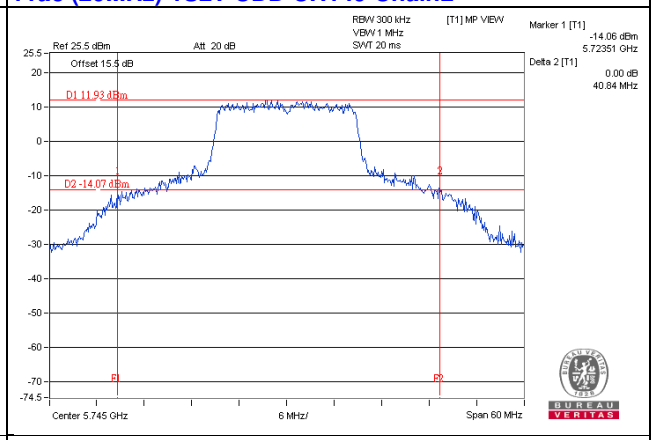
11ac (20MHz) 1S2T CDD CH48 Chain2



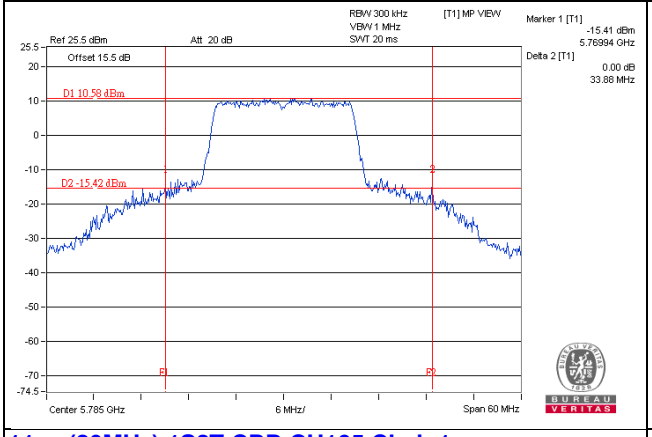
11ac (20MHz) 1S2T CDD CH149 Chain1



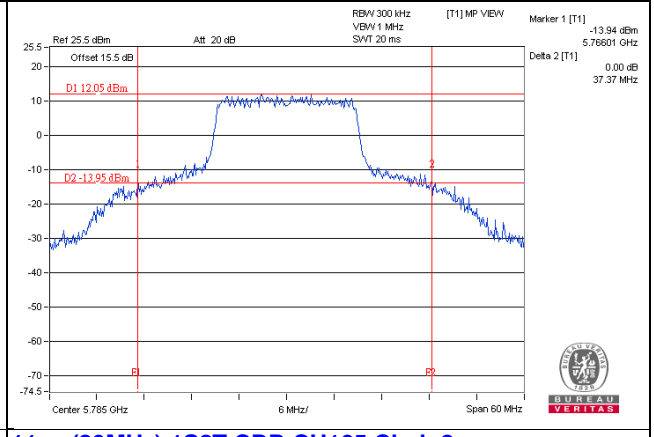
11ac (20MHz) 1S2T CDD CH149 Chain2



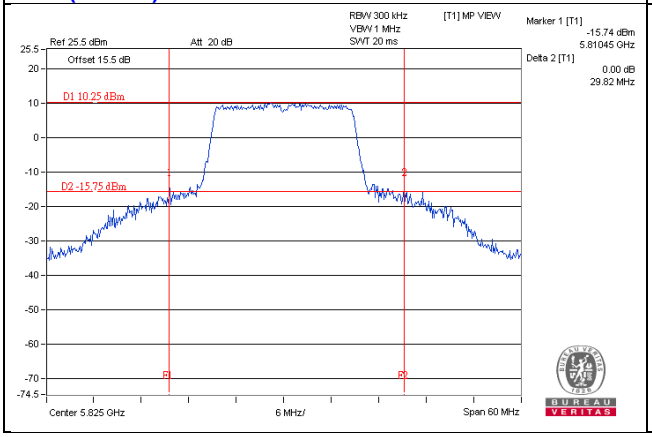
11ac (20MHz) 1S2T CDD CH157 Chain1



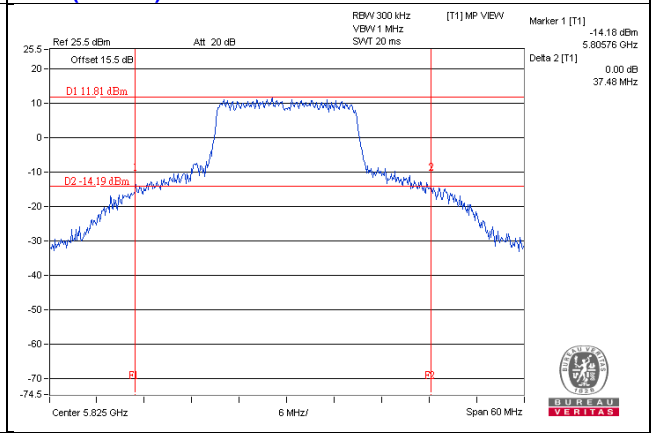
11ac (20MHz) 1S2T CDD CH157 Chain2



11ac (20MHz) 1S2T CDD CH165 Chain1

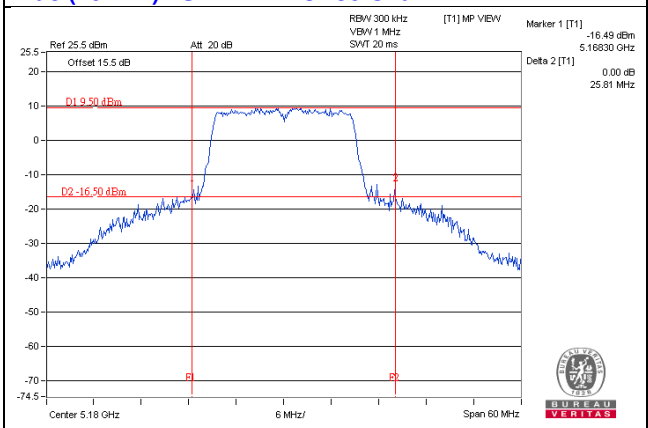


11ac (20MHz) 1S2T CDD CH165 Chain2

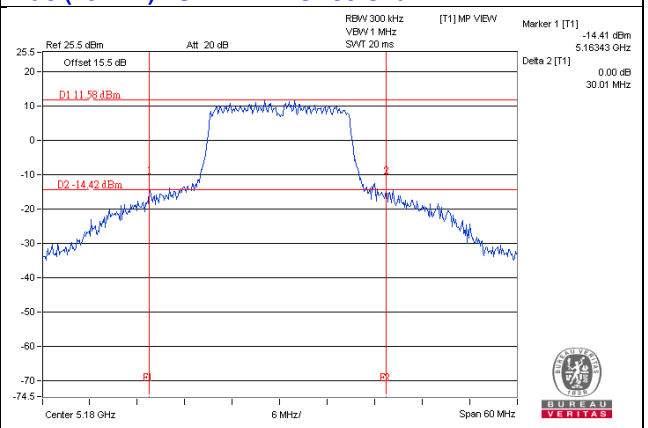


26dB BANDWIDTH SPECTRUM PLOT

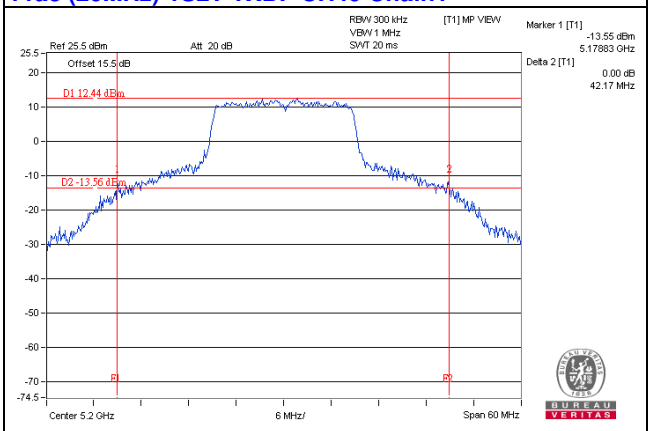
11ac (20MHz) 1S2T TXBF CH36 Chain1



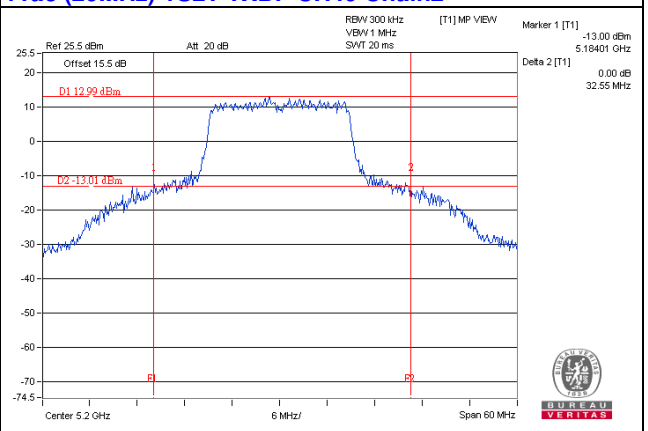
11ac (20MHz) 1S2T TXBF CH36 Chain2



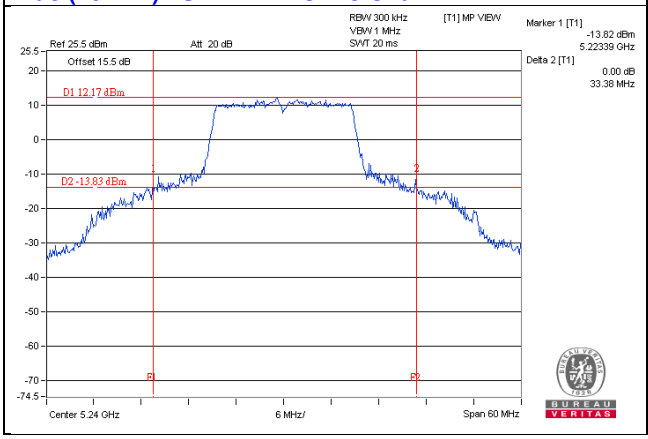
11ac (20MHz) 1S2T TXBF CH40 Chain1



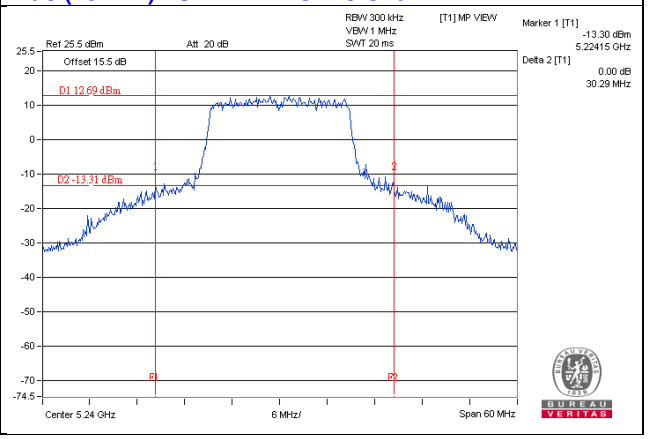
11ac (20MHz) 1S2T TXBF CH40 Chain2



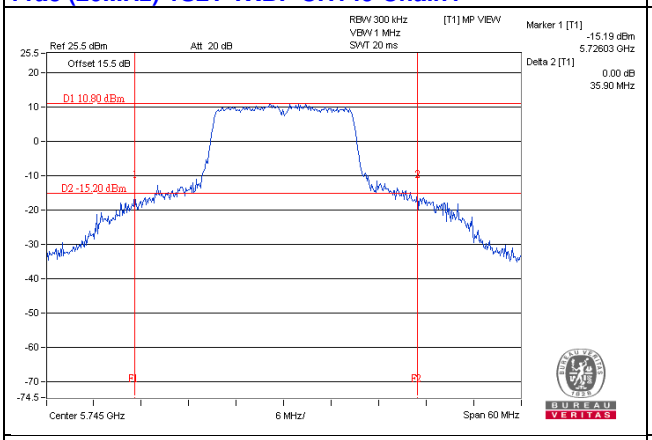
11ac (20MHz) 1S2T TXBF CH48 Chain1



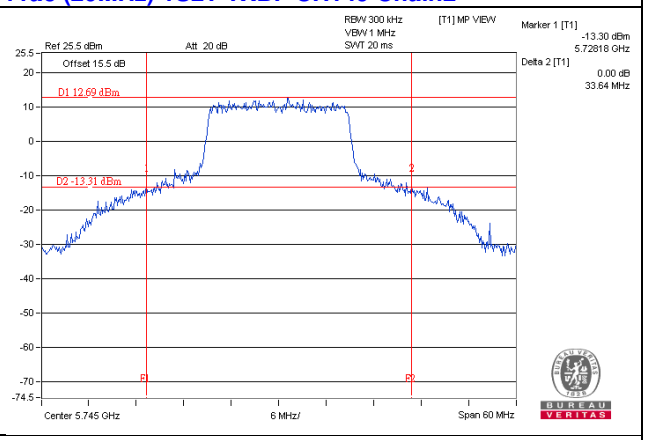
11ac (20MHz) 1S2T TXBF CH48 Chain2



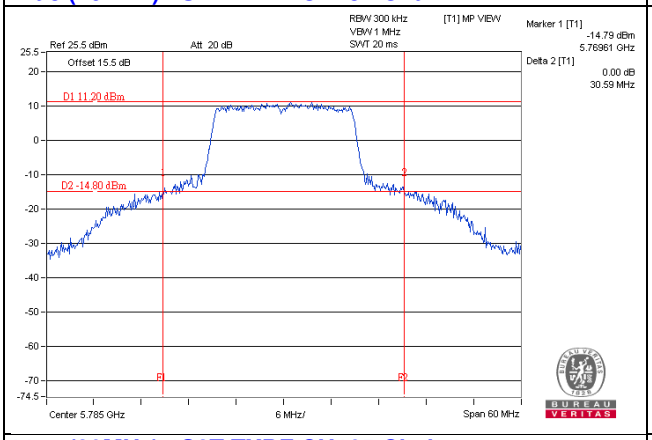
11ac (20MHz) 1S2T TXBF CH149 Chain1



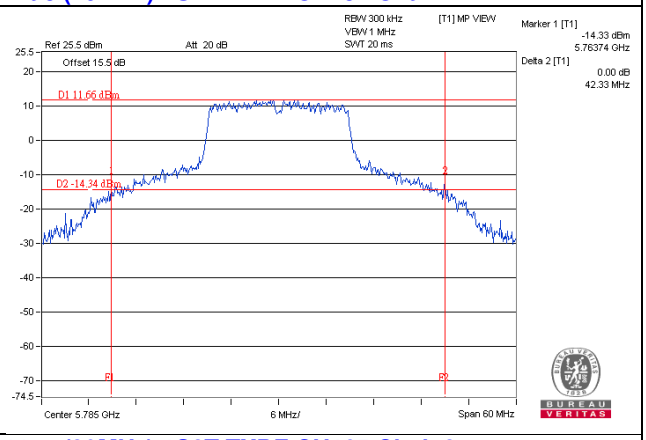
11ac (20MHz) 1S2T TXBF CH149 Chain2



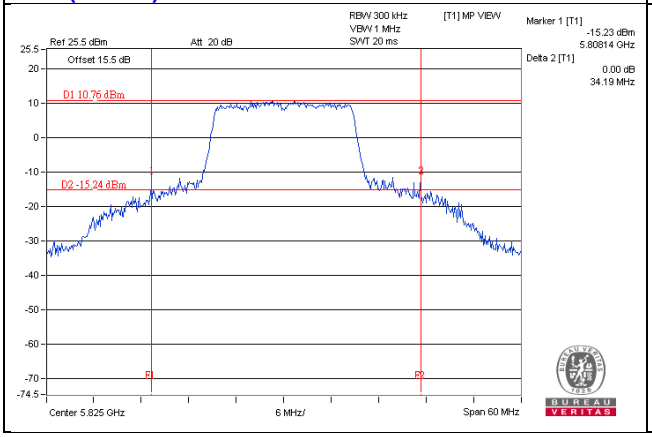
11ac (20MHz) 1S2T TXBF CH157 Chain1



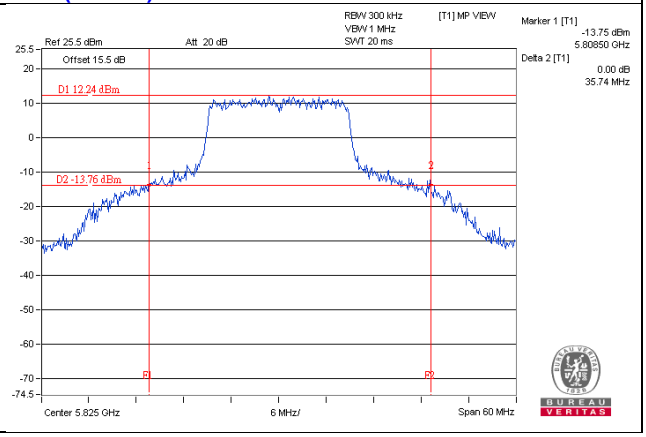
11ac (20MHz) 1S2T TXBF CH157 Chain2



11ac (20MHz) 1S2T TXBF CH165 Chain1

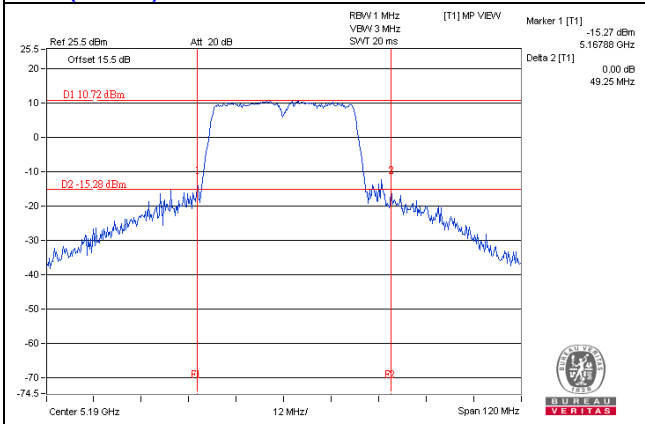


11ac (20MHz) 1S2T TXBF CH165 Chain2

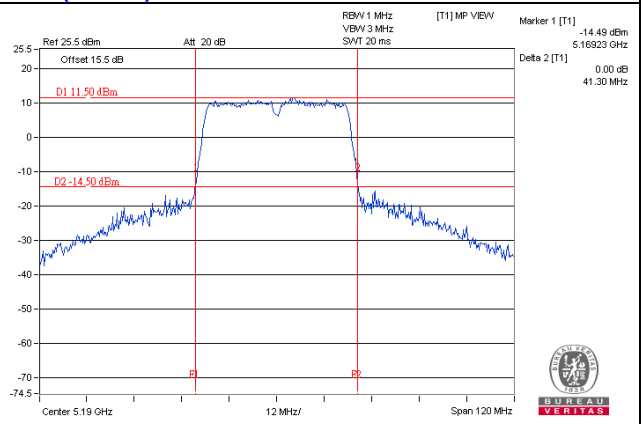


26dB SPECTRUM PLOT

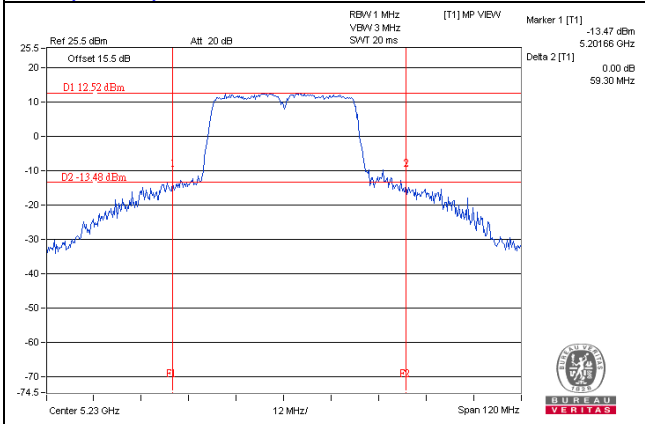
11ac (40MHz) 1S2T CDD CH38 Chain1



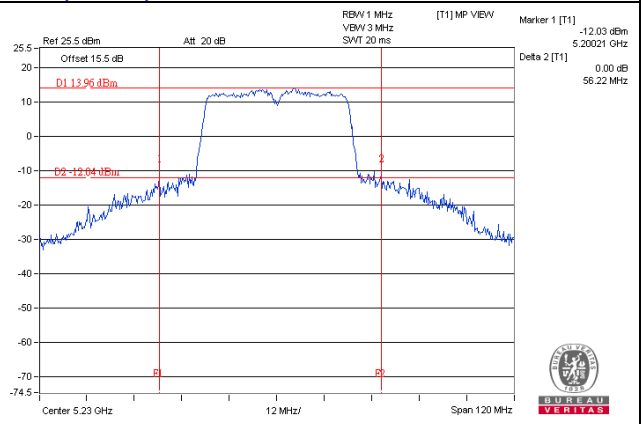
11ac (40MHz) 1S2T CDD CH38 Chain2



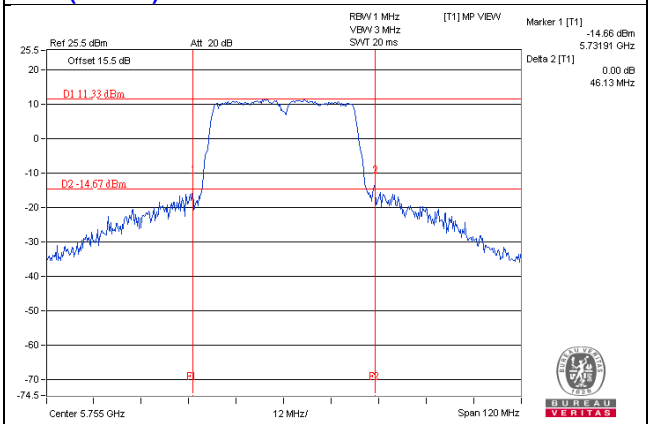
11ac (40MHz) 1S2T CDD CH46 Chain1



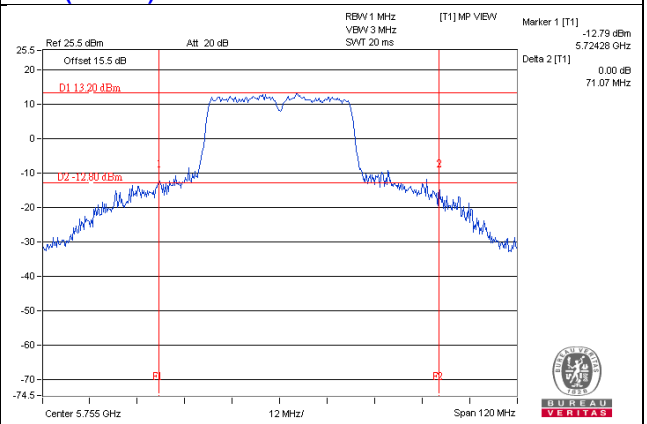
11ac (40MHz) 1S2T CDD CH46 Chain2



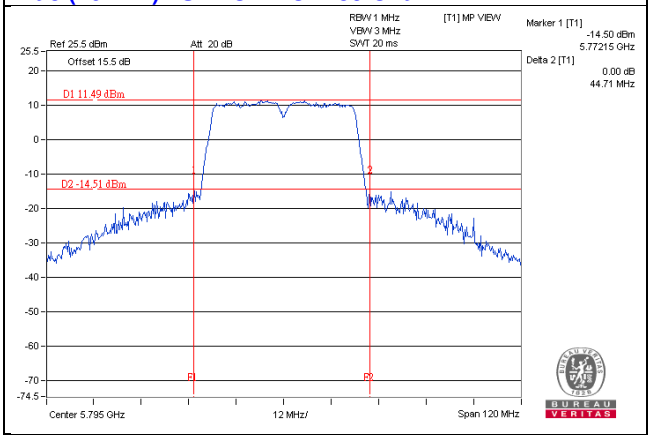
11ac (40MHz) 1S2T CDD CH151 Chain1



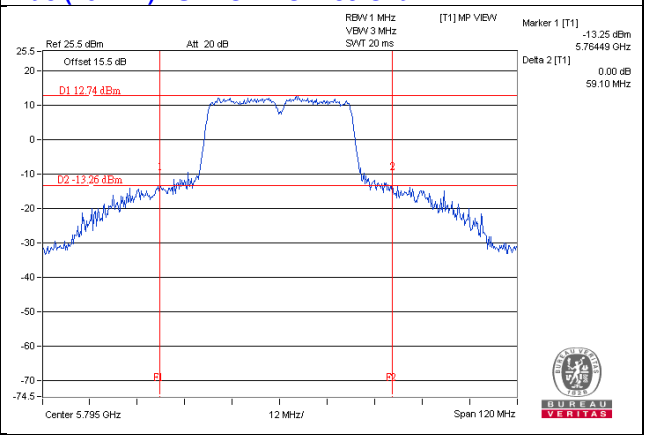
11ac (40MHz) 1S2T CDD CH151 Chain2



11ac (40MHz) 1S2T CDD CH159 Chain1

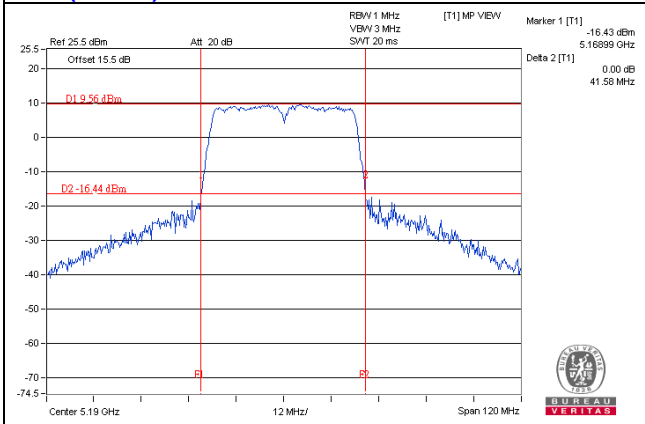


11ac (40MHz) 1S2T CDD CH159 Chain2

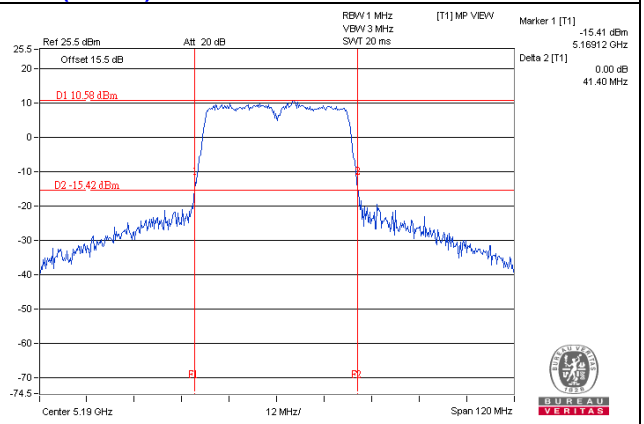


26dB BANDWIDTH SPECTRUM PLOT

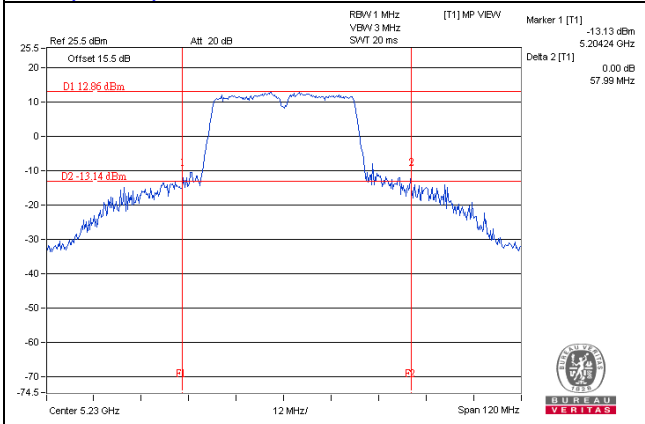
11ac (40MHz) 1S2T TXBF CH38 Chain1



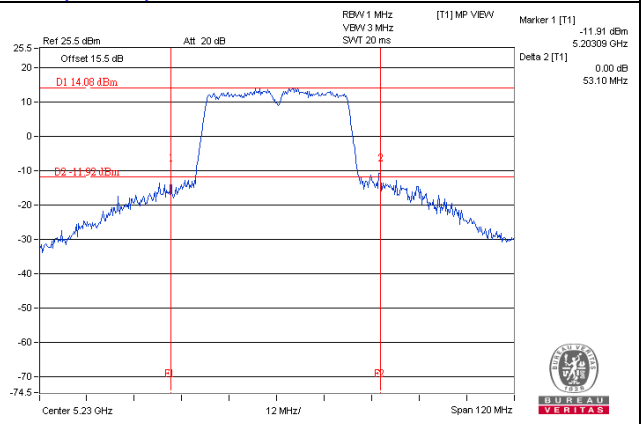
11ac (40MHz) 1S2T TXBF CH38 Chain2



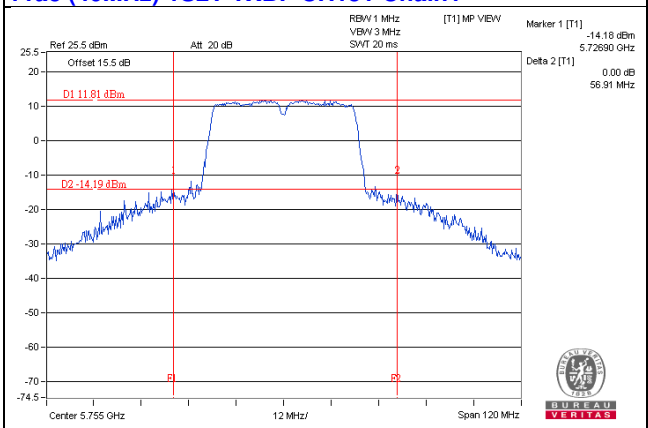
11ac (40MHz) 1S2T TXBF CH46 Chain1



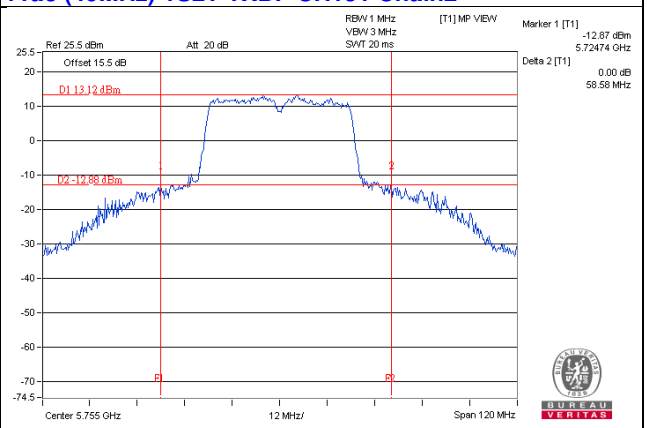
11ac (40MHz) 1S2T TXBF CH46 Chain2



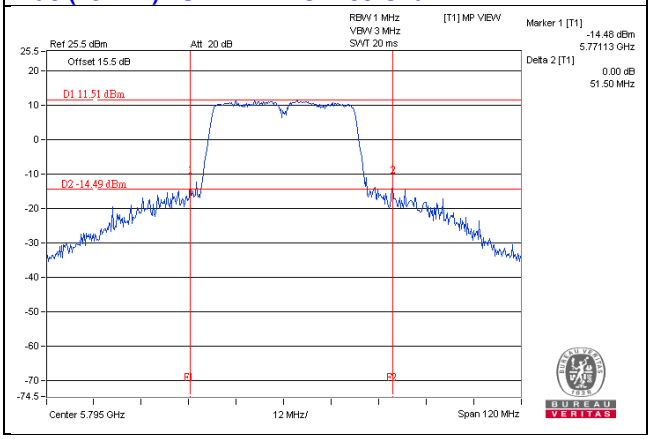
11ac (40MHz) 1S2T TXBF CH151 Chain1



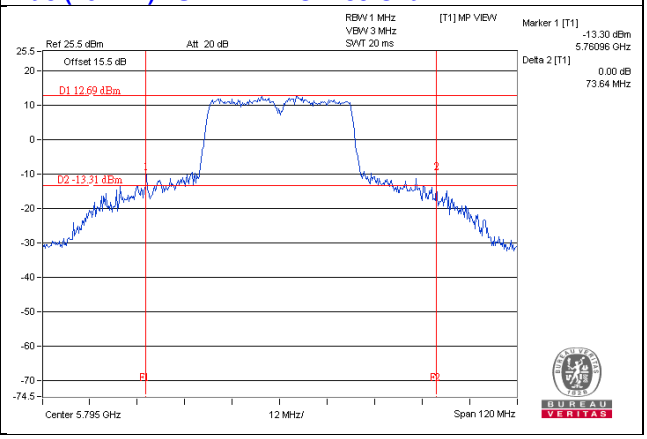
11ac (40MHz) 1S2T TXBF CH151 Chain2



11ac (40MHz) 1S2T TXBF CH159 Chain1



11ac (40MHz) 1S2T TXBF CH159 Chain2



4.3 6dB Bandwidth Measurement

4.3.1 Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz

4.3.2 Measuring Instruments and Setting

The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RBW	100KHz
VBW	≥ 3 x RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto couple

4.3.3 Test Procedures

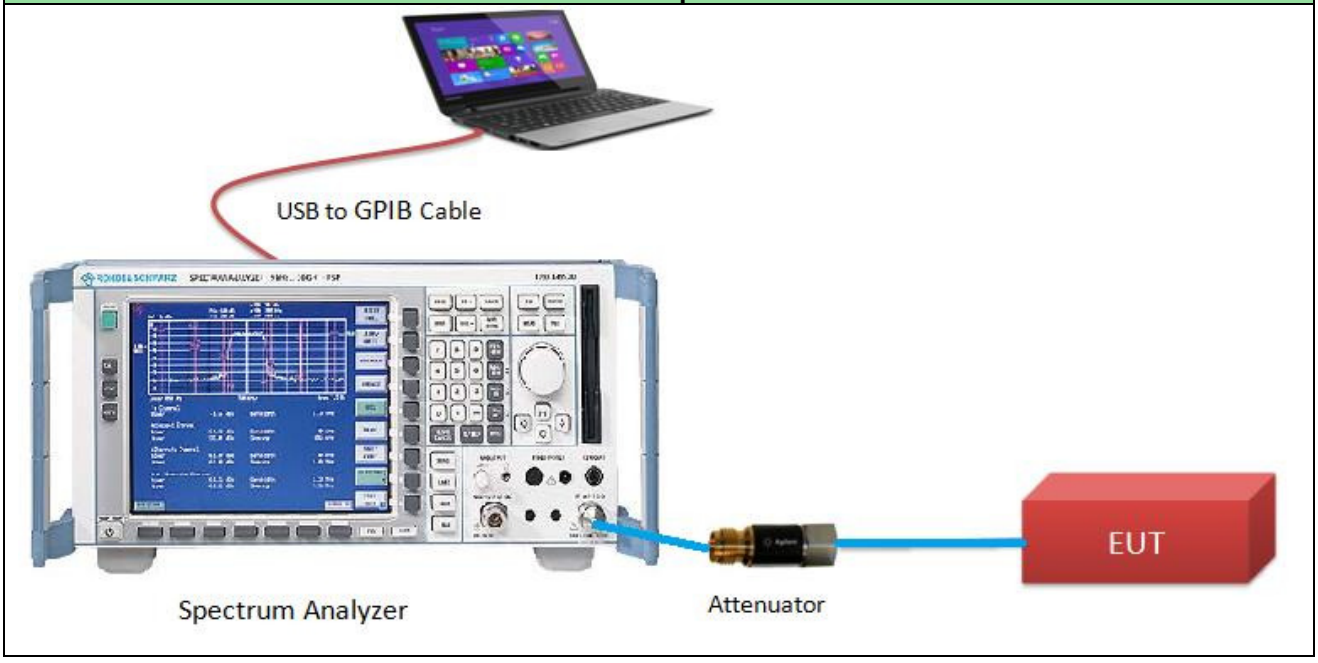
1 The transmitter output (antenna port) was connected to the spectrum analyzer in peak, Max hold mode.

2 Test was performed in accordance with Measurement of Digital Transmission Systems Operating under 789033 D02 General UNII Test Procedures New Rules v01r03, in section “Emission bandwidth (C)(2)” , 08/22/2016

3 Measured the spectrum width with power higher than 6dB account by this measurement.

4.3.4 Test Setup Layout

Setup



4.3.5 Test Deviation

There are no deviations with the original standard.

4.3.6 EUT Operating Conditions

The EUT was programmed to be in continuously transmitting mode.

4.3.7 Test Results of 6dB Bandwidth

Temperature	20°C	Humidity	62%
Test Engineer	Anderson Chen		

11a 1S2T CDD

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 1	CHAIN 2		
149	5745	16.39	16.39	0.5	PASS
157	5785	16.41	16.42	0.5	PASS
165	5825	16.40	16.42	0.5	PASS

11ac (20MHz) 1S2T CDD

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 1	CHAIN 2		
149	5745	17.63	17.64	0.5	PASS
157	5785	17.65	17.64	0.5	PASS
165	5825	17.64	17.65	0.5	PASS

11ac (20MHz) 1S2T TxBF

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 1	CHAIN 2		
149	5745	17.63	17.66	0.5	PASS
157	5785	17.65	17.65	0.5	PASS
165	5825	17.63	17.65	0.5	PASS

11ac (40MHz) 1S2T CDD

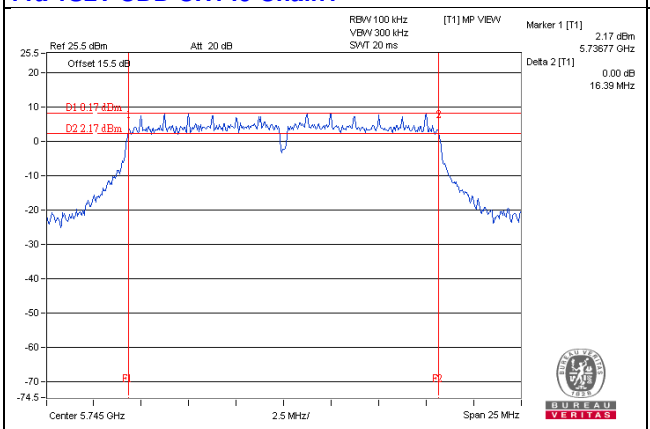
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 1	CHAIN 2		
151	5755	36.38	36.45	0.5	PASS
159	5795	36.39	36.39	0.5	PASS

11ac (40MHz) 1S2T TxBF

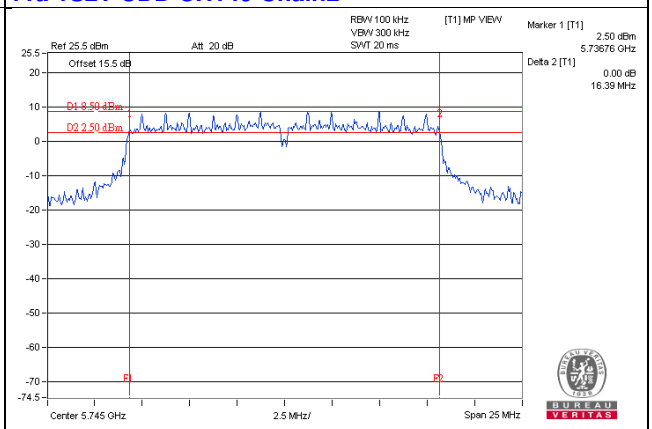
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 1	CHAIN 2		
151	5755	36.39	36.45	0.5	PASS
159	5795	36.35	36.43	0.5	PASS

6dB BANDWIDTH SPECTRUM PLOT

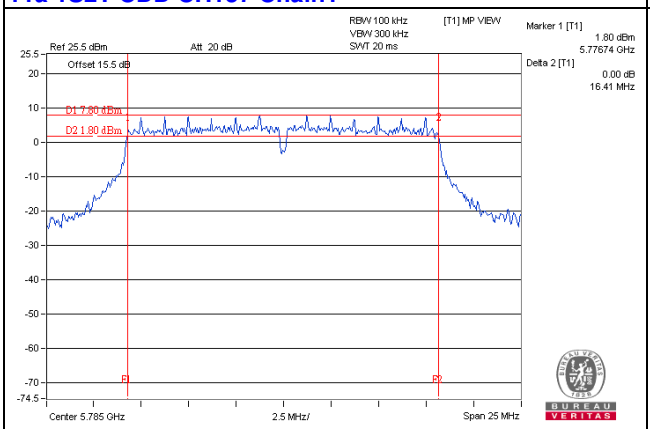
11a 1S2T CDD CH149 Chain1



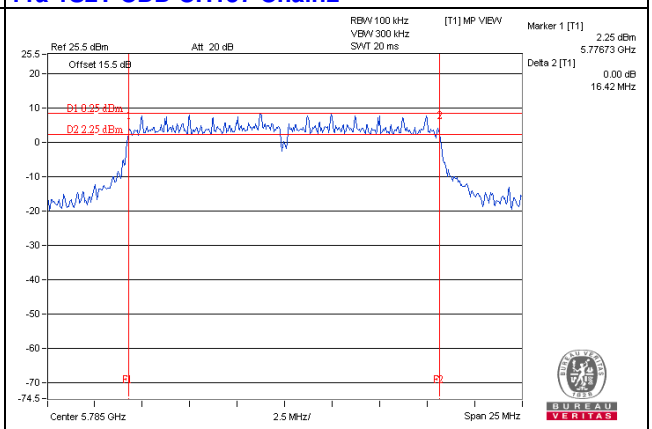
11a 1S2T CDD CH149 Chain2



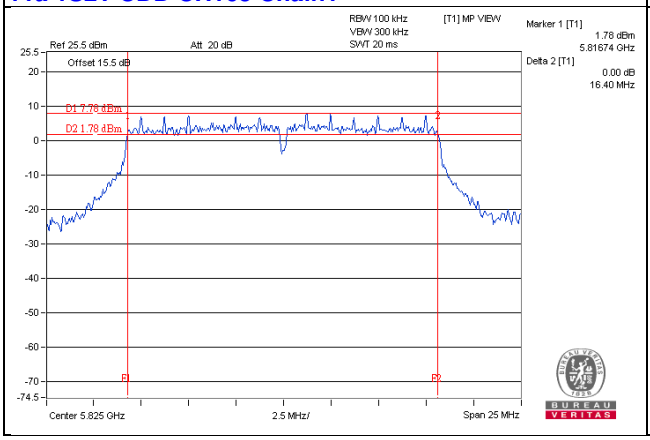
11a 1S2T CDD CH157 Chain1



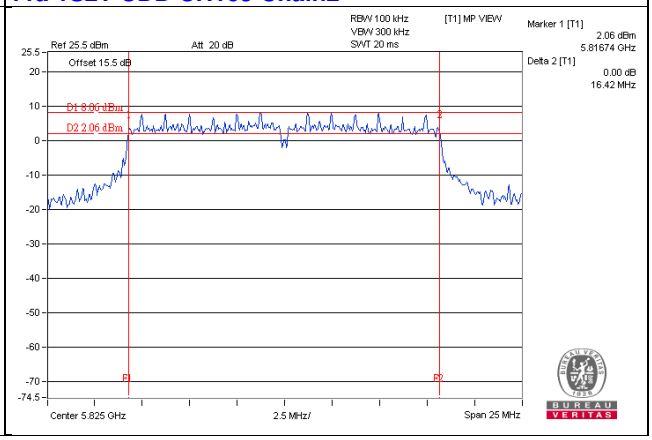
11a 1S2T CDD CH157 Chain2



11a 1S2T CDD CH165 Chain1

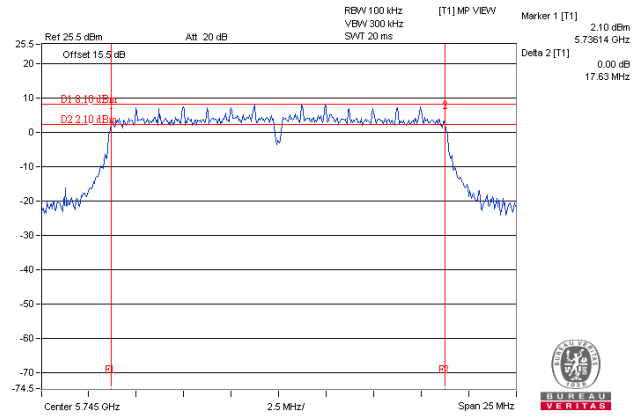


11a 1S2T CDD CH165 Chain2

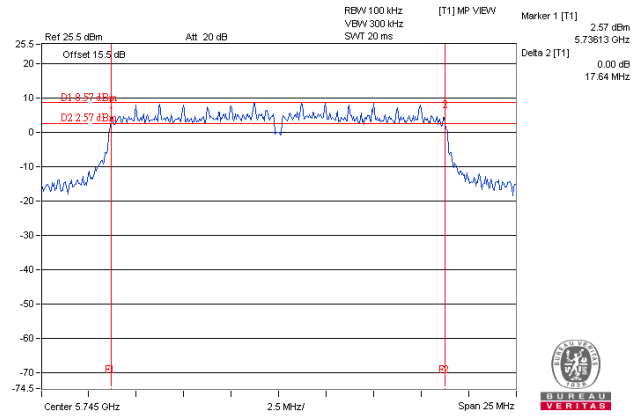


6dB BANDWIDTH SPECTRUM PLOT

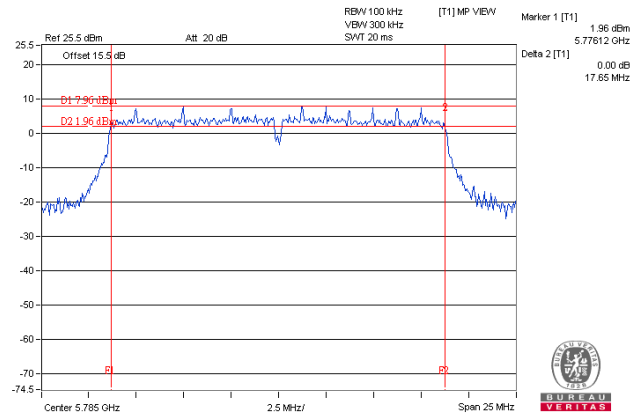
11ac (20MHz) 1S2T CDD CH149 Chain1



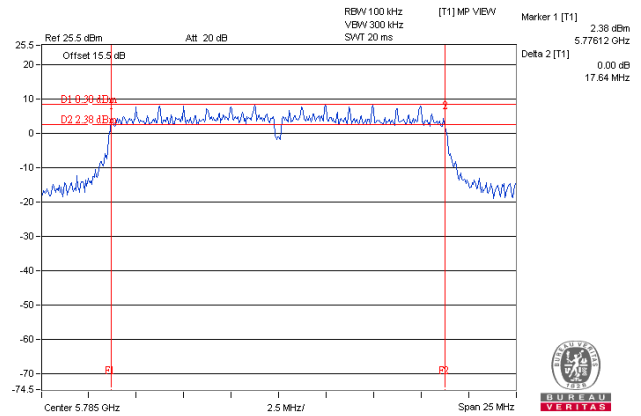
11ac (20MHz) 1S2T CDD CH149 Chain2



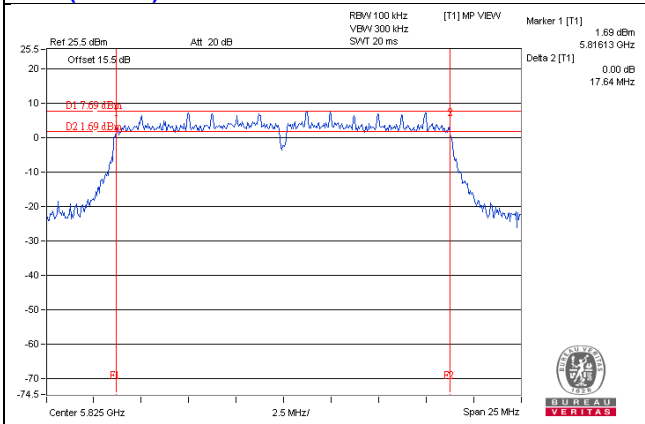
11ac (20MHz) 1S2T CDD CH157 Chain1



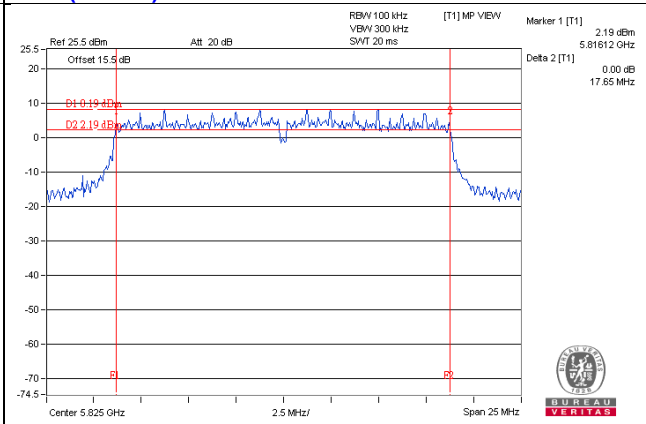
11ac (20MHz) 1S2T CDD CH157 Chain2



11ac (20MHz) 1S2T CDD CH165 Chain1

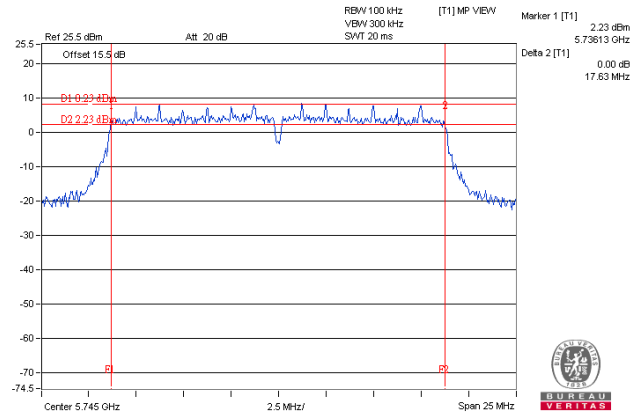


11ac (20MHz) 1S2T CDD CH165 Chain2

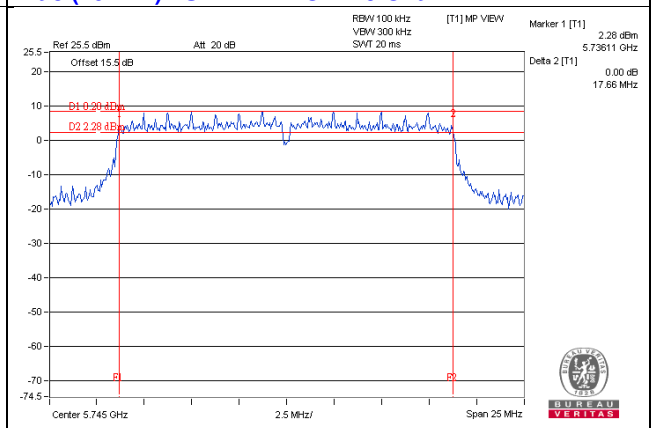


6dB BANDWIDTH SPECTRUM PLOT

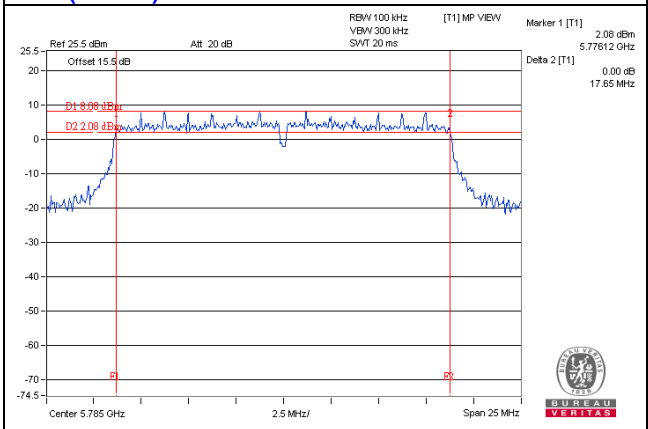
11ac (20MHz) 1S2T TXBF CH149 Chain1



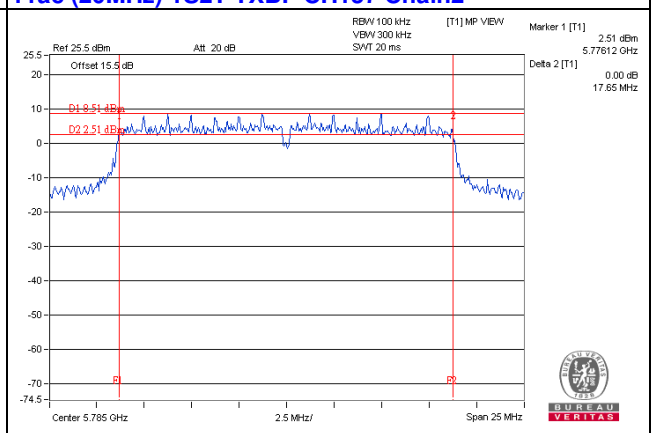
11ac (20MHz) 1S2T TXBF CH149 Chain2



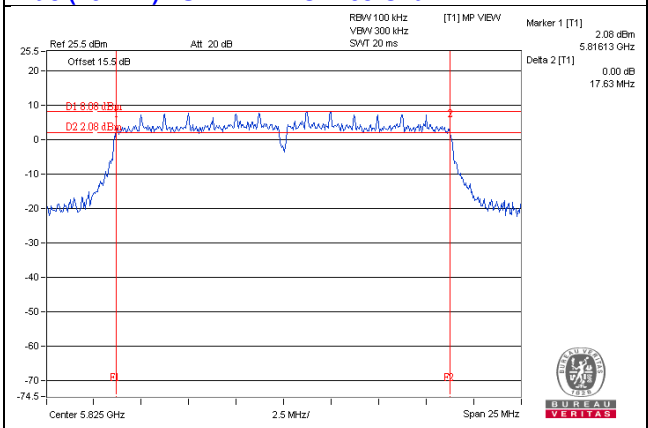
11ac (20MHz) 1S2T TXBF CH157 Chain1



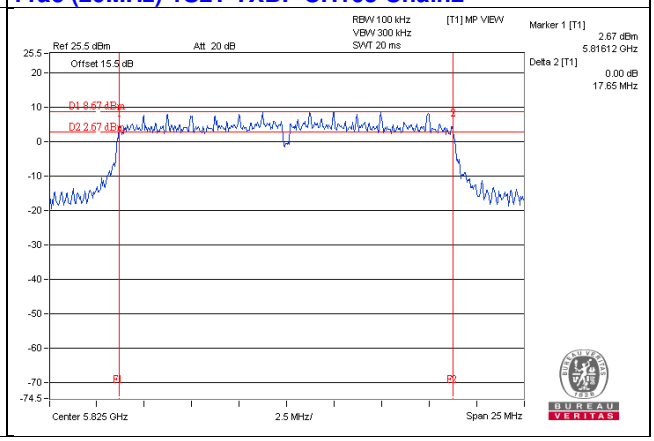
11ac (20MHz) 1S2T TXBF CH157 Chain2



11ac (20MHz) 1S2T TXBF CH165 Chain1

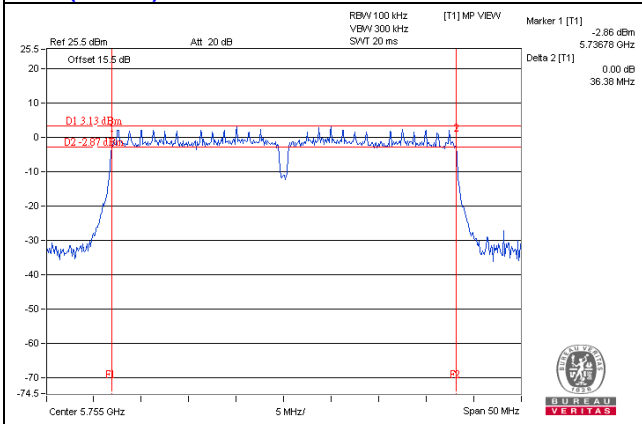


11ac (20MHz) 1S2T TXBF CH165 Chain2

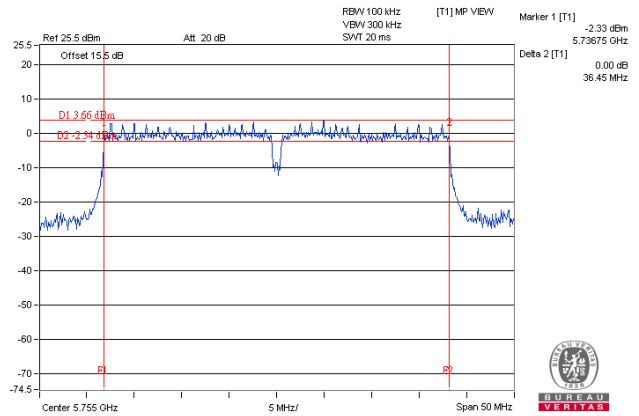


6dB BANDWIDTH SPECTRUM PLOT

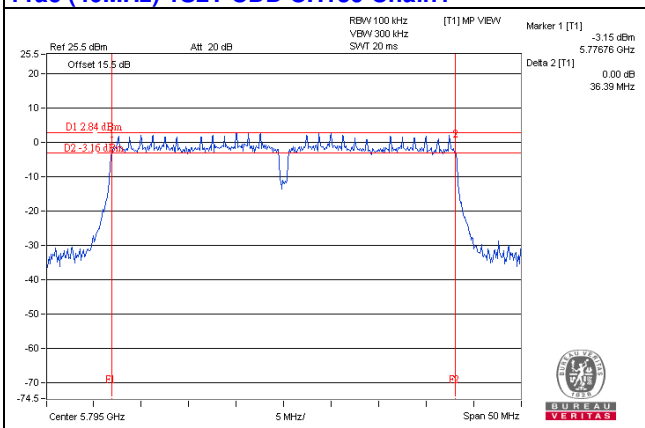
11ac (40MHz) 1S2T CDD CH151 Chain1



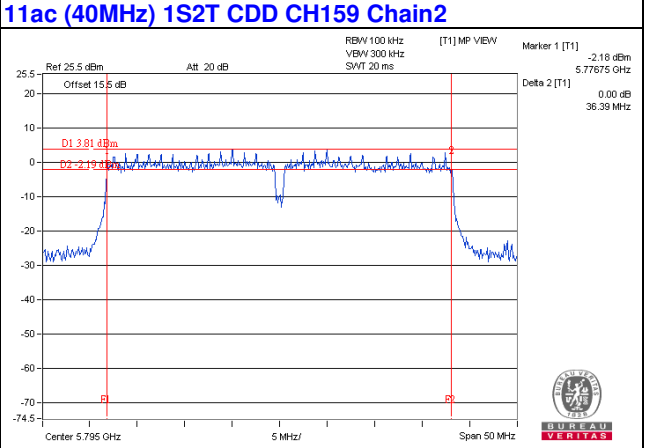
11ac (40MHz) 1S2T CDD CH151 Chain2



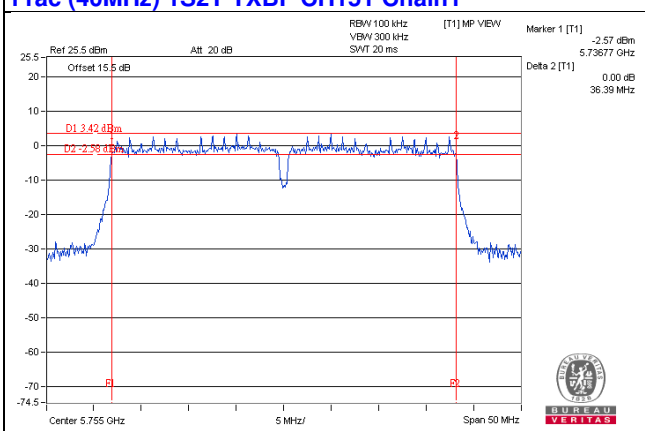
11ac (40MHz) 1S2T CDD CH159 Chain1



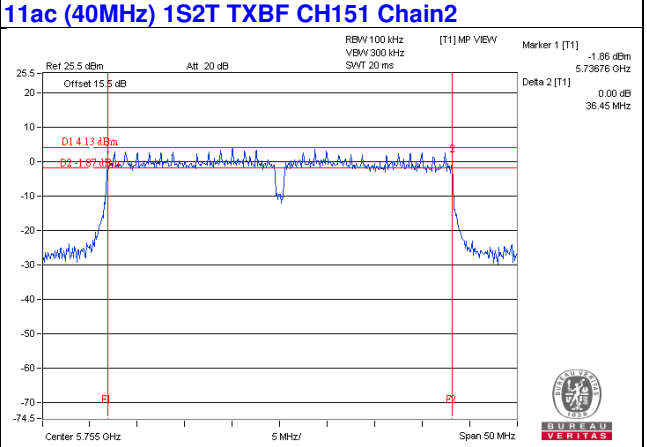
11ac (40MHz) 1S2T CDD CH159 Chain2



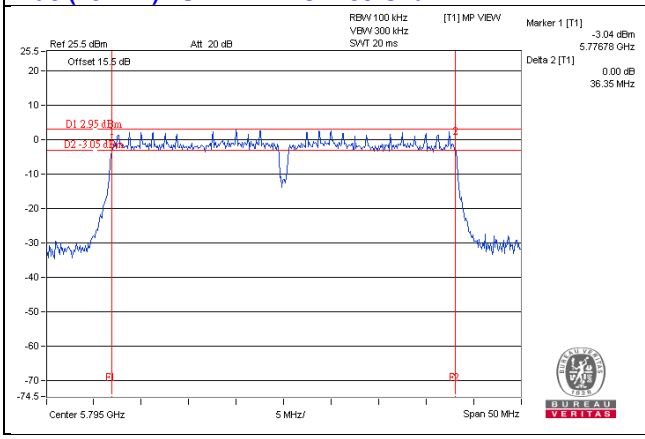
11ac (40MHz) 1S2T TXBF CH151 Chain1



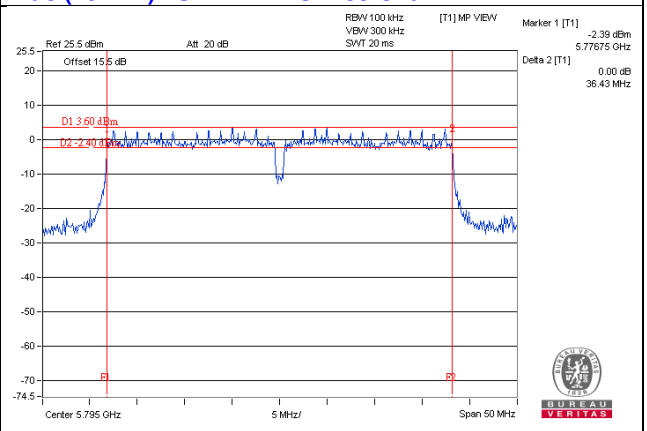
11ac (40MHz) 1S2T TXBF CH151 Chain2



11ac (40MHz) 1S2T TXBF CH159 Chain1



11ac (40MHz) 1S2T TXBF CH159 Chain2



4.4 Maximum Conducted Output Power Measurement

4.4.1 Limit

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	√	Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A			250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C			250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.4.2 Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	**Setting**
Power Measurement	Average(RMS), Peak
Rise Time	<8 ns typical 12ns maximum
Sensor Model	MA2411B

4.4.3 Test Procedures

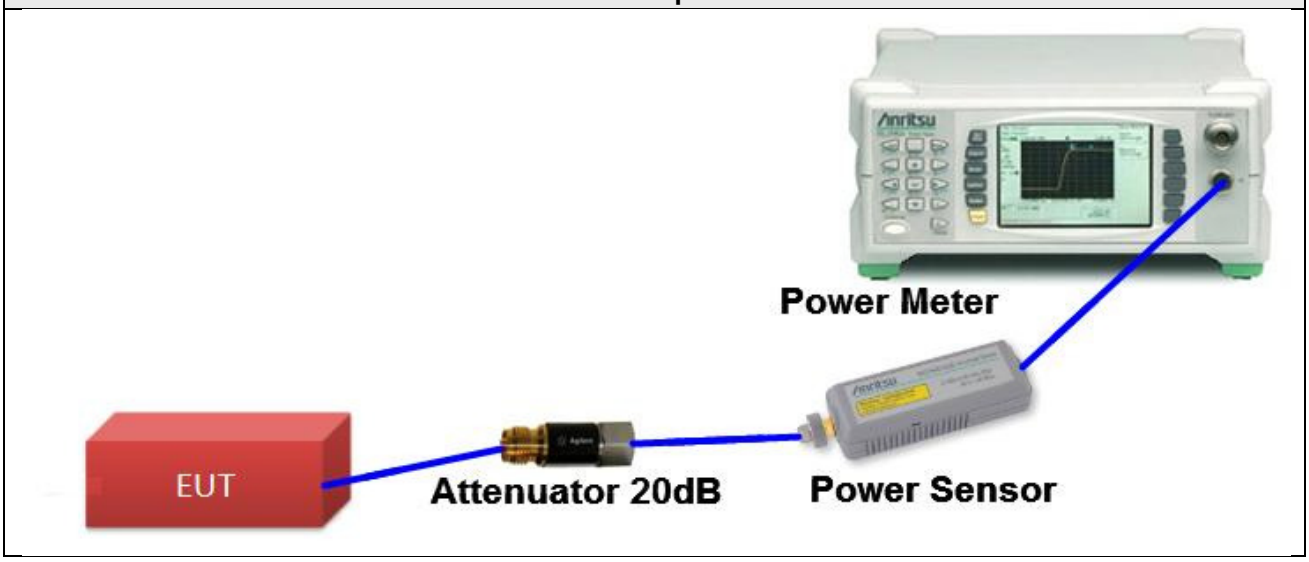
1 Test was performed in accordance with Measurement of Digital Transmission Systems Operating under 789033 D02 General UNII Test Procedures New Rules v01r03, in section “Maximum conducted output power Method AVGPM-G” , 08/22/2016

2 The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and enable the trigger function to get the all on time transmission. Record the average power level.

3 When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

4.4.4 Test Setup Layout

Setup



4.4.5 Test Deviation

There are no deviations with the original standard.

4.4.6 EUT Operating Conditions

The EUT was programmed to be in continuously transmitting mode.

4.4.7 Test Results of Maximum Conducted Output Power

Temperature	22°C	Humidity	60%
Test Engineer	Anderson Chen		

11a 1S2T CDD

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2				
36	5180 MHz	18.50	18.48	21.50	4.93	30.00	PASS
40	5200 MHz	20.12	20.27	23.21	4.85	30.00	PASS
48	5240 MHz	20.15	20.21	23.19	4.46	30.00	PASS
149	5745 MHz	19.54	19.39	22.48	4.58	30.00	PASS
157	5785 MHz	19.56	19.44	22.51	4.61	30.00	PASS
165	5825 MHz	19.51	19.35	22.44	4.83	30.00	PASS

11ac (20MHz) 1S2T CDD

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2				
36	5180 MHz	18.63	18.83	21.74	4.93	30.00	PASS
40	5200 MHz	20.77	20.65	23.72	4.85	30.00	PASS
48	5240 MHz	20.34	20.57	23.47	4.46	30.00	PASS
149	5745 MHz	19.55	19.50	22.54	4.58	30.00	PASS
157	5785 MHz	19.58	19.59	22.60	4.61	30.00	PASS
165	5825 MHz	19.52	19.54	22.54	4.83	30.00	PASS

11ac (20MHz) 1S2T TxBF

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2				
36	5180 MHz	18.53	18.70	21.63	6.58	29.42	PASS
40	5200 MHz	19.89	19.53	22.72	6.84	29.16	PASS
48	5240 MHz	19.02	18.89	21.97	6.51	29.49	PASS
149	5745 MHz	19.70	19.29	22.51	5.15	30.00	PASS
157	5785 MHz	19.70	19.63	22.68	4.96	30.00	PASS
165	5825 MHz	19.51	19.66	22.60	4.87	30.00	PASS

Note:
1. For 5180MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.58dBi > 6dBi, so the power limit shall be reduced to 30-(6.58-6) = 29.42dBm.
2. For 5200MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.84dBi > 6dBi, so the power limit shall be reduced to 30-(6.84-6) = 29.16dBm.
3. For 5240MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.51dBi > 6dBi, so the power limit shall be reduced to 30-(6.51-6) = 29.49dBm.
4. For 5745MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.15dBi < 6dBi, so the power limit shall not be reduced.
5. For 5785MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.96dBi < 6dBi, so the power limit shall not be reduced.
6. For 5825MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.87dBi < 6dBi, so the power limit shall not be reduced.

11ac (40MHz) 1S2T CDD

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2				
38	5190 MHz	16.37	16.47	19.43	4.83	30.00	PASS
46	5230 MHz	18.61	18.51	21.57	4.87	30.00	PASS
151	5755 MHz	17.20	17.33	20.28	4.55	30.00	PASS
159	5795 MHz	17.15	17.28	20.23	4.65	30.00	PASS

11ac (40MHz) 1S2T TxBF

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2				
38	5190 MHz	15.06	14.71	17.90	6.75	29.25	PASS
46	5230 MHz	18.64	18.69	21.68	6.74	29.26	PASS
151	5755 MHz	17.22	17.28	20.26	4.99	30.00	PASS
159	5795 MHz	16.98	17.10	20.05	4.93	30.00	PASS

Note:
1. For 5190MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.75dBi > 6dBi , so the power limit shall be reduced to 30-(6.75-6) = 29.25dBm.
2. For 5230MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.74dBi > 6dBi , so the power limit shall be reduced to 30-(6.74-6) = 29.26dBm.
4. For 5755MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.99dBi < 6dBi, so the power limit shall not be reduced.
5. For 5795MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.93dBi < 6dBi, so the power limit shall not be reduced.

4.5 Power Spectral Density Measurement

4.5.1 Limit

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
	√	Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A			11dBm/ MHz
U-NII-2C			11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz (23.01 dBm/100kHz)

Note: 23.01dBm/100kHz= 30dBm/500kHz-10log **(** $\frac{500kHz}{100kHz}$ **)**

4.5.2 Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter Setting	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Average
Sweep Time	Auto, trigger set to “free run”
Trace average	100 times

For U-NII-3 band:

Spectrum Parameter Setting	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	100kHz
VBW	≥ 3 RBW
Detector	RMS
Trace	Average
Sweep Time	Auto, trigger set to “free run”
Trace average	100 times

4.5.3 Test Procedure

1 The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.

2 For U-NII-1 Bands, PSD Measure was performed in accordance with 789033 D02 General UNII Test Procedures New Rules v01r03, in section “Maximum conducted output power (E)(2)(d) Method SA-2”, 08/22/2016.

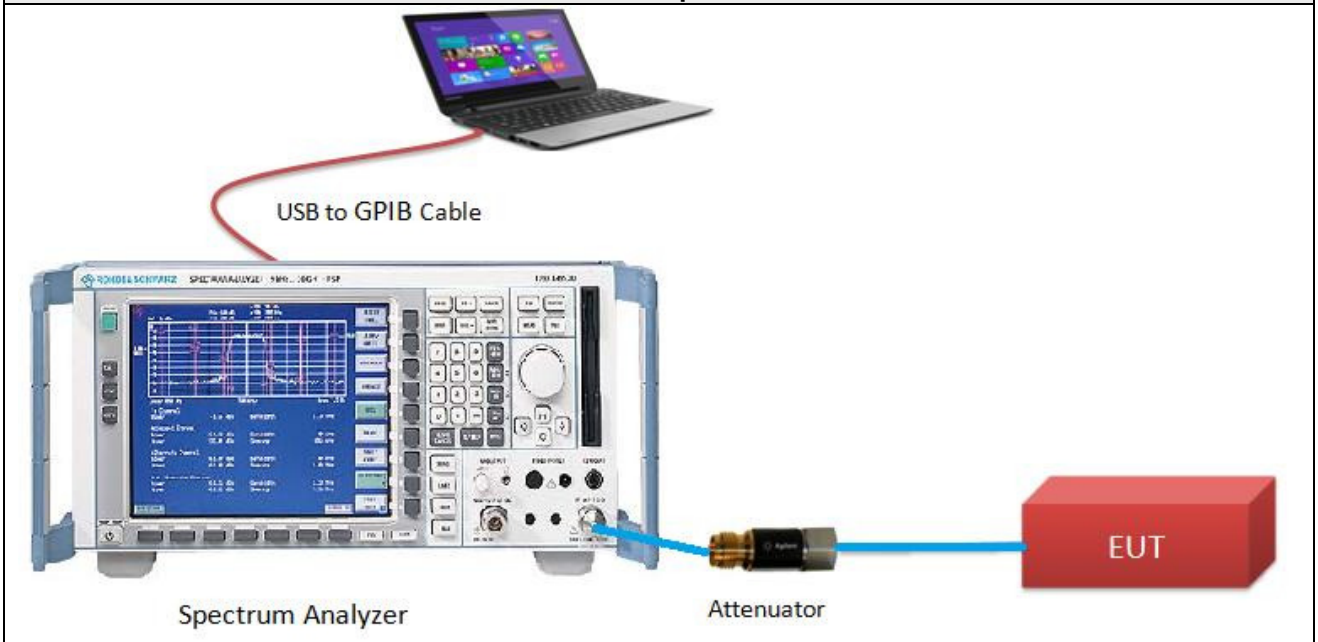
3 For U-NII-3 Band, PSD Measure was performed in accordance with 789033 D02 General UNII Test Procedures New Rules v01r03, in section “Maximum Power Spectral Density (F)(5)” , 08/22/2016

4 Multiple antenna systems was performed in accordance 662911 D01 Multiple Transmitter Output v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs (bin-by-bin summing).

5 When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first

6 frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way.

4.5.4 Test Setup Layout

Setup


4.5.5 Test Deviation

There are no deviations with the original standard.

4.5.6 EUT Operating Conditions

The EUT was programmed to be in continuously transmitting mode.

4.5.7 Test Results

Temperature	25°C	Humidity	60%
Test Engineer	Anderson Chen		

11a 1S2T CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
		Chain 1	Chain 2				
36	5180	5.45	4.01	7.80	6.58	16.42	Pass
40	5200	6.98	5.55	9.33	6.84	16.16	Pass
48	5240	6.76	6.15	9.48	6.51	16.49	Pass

Note:
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 5180MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.58dBi > 6dBi , so the power density limit shall be reduced to 17-(6.58-6) = 16.42dBm.
3. For 5200MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.84dBi > 6dBi , so the power density limit shall be reduced to 17-(6.84-6) = 16.16dBm.
4. For 5240MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.51dBi > 6dBi , so the power density limit shall be reduced to 17-(6.51-6) = 16.49dBm.

Chan.	Chan. Freq. (MHz)	PSD(dBm/100kHz)		Total PSD (dBm/100kHz)	Total PSD (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
		Chain 1	Chain 2					
149	5745	-1.91	-2.57	0.78	7.77	5.15	30	Pass
157	5785	-2.49	-2.35	0.59	7.58	4.96	30	Pass
165	5825	-2.44	-2.53	0.53	7.52	4.87	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/100kHz) + 6.99dB
2. For 5745MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.15dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5785MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.96dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5825MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.87dBi < 6dBi, so the power density limit shall not be reduced.

11ac (20MHz) 1S2T CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
		Chain 1	Chain 2				
36	5180	5.05	3.80	7.48	6.58	16.42	Pass
40	5200	7.24	5.94	9.65	6.84	16.16	Pass
48	5240	6.80	6.18	9.51	6.51	16.49	Pass

Note:
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 5180MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.58dBi > 6dBi , so the power density limit shall be reduced to 17-(6.58-6) = 16.42dBm.
3. For 5200MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.84dBi > 6dBi , so the power density limit shall be reduced to 17-(6.84-6) = 16.16dBm.
4. For 5240MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.51dBi > 6dBi , so the power density limit shall be reduced to 17-(6.51-6) = 16.49dBm.

Chan.	Chan. Freq. (MHz)	PSD(dBm/100kHz)		Total PSD (dBm/100kHz)	Total PSD (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
		Chain 1	Chain 2					
149	5745	-2.53	-2.79	0.35	7.34	5.15	30	Pass
157	5785	-2.99	-2.56	0.24	7.23	4.96	30	Pass
165	5825	-2.58	-3.12	0.17	7.16	4.87	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/100kHz) + 6.99dB
2. For 5745MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.15dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5785MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.96dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5825MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.87dBi < 6dBi, so the power density limit shall not be reduced.

11ac (20MHz) 1S2T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
		Chain 1	Chain 2				
36	5180	4.71	3.72	7.25	6.58	16.42	Pass
40	5200	7.17	5.75	9.53	6.84	16.16	Pass
48	5240	6.72	6.77	9.76	6.51	16.49	Pass

Note:
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For 5180MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.58dBi > 6dBi , so the power density limit shall be reduced to 17-(6.58-6) = 16.42dBm.
3. For 5200MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.84dBi > 6dBi , so the power density limit shall be reduced to 17-(6.84-6) = 16.16dBm.
4. For 5240MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.51dBi > 6dBi , so the power density limit shall be reduced to 17-(6.51-6) = 16.49dBm.

Chan.	Chan. Freq. (MHz)	PSD(dBm/100kHz)		Total PSD (dBm/100kHz)	Total PSD (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
		Chain 1	Chain 2					
149	5745	-2.44	-2.24	0.67	7.66	5.15	30	Pass
157	5785	-1.76	-2.68	0.81	7.80	4.96	30	Pass
165	5825	-2.16	-2.20	0.83	7.82	4.87	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/100kHz) + 6.99dB
2. For 5745MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.15dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5785MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.96dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5825MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.87dBi < 6dBi, so the power density limit shall not be reduced.

11ac (40MHz) 1S2T CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
		Chain 1	Chain 2						
38	5190	-0.33	-1.00	2.36	0.16	2.52	6.75	16.25	Pass
46	5230	1.69	1.55	4.63	0.16	4.79	6.74	16.26	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5190MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.75dBi > 6dBi , so the power density limit shall be reduced to 17-(6.75-6) = 16.25dBm.
3. For 5230MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.74dBi > 6dBi , so the power density limit shall be reduced to 17-(6.74-6) = 16.26dBm.

Chan.	Chan. Freq. (MHz)	PSD(dBm/100kHz)		Total PSD (dBm/100k Hz)	Duty Factor (dB)	Total PSD (dBm/500k Hz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
		Chain 1	Chain 2						
151	5755	-7.86	-8.47	-5.14	0.16	2.01	4.99	30	Pass
159	5795	-8.08	-7.63	-4.84	0.16	2.31	4.93	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/100kHz) + 6.99dB+ Duty Factor (dB)
2. For 5755MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.99dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5795MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.93dBi < 6dBi, so the power density limit shall not be reduced.

11ac (40MHz) 1S2T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
		Chain 1	Chain 2						
38	5190	-1.31	-2.34	1.22	0.15	1.37	6.75	16.25	Pass
46	5230	1.81	1.99	4.91	0.15	5.06	6.74	16.26	Pass

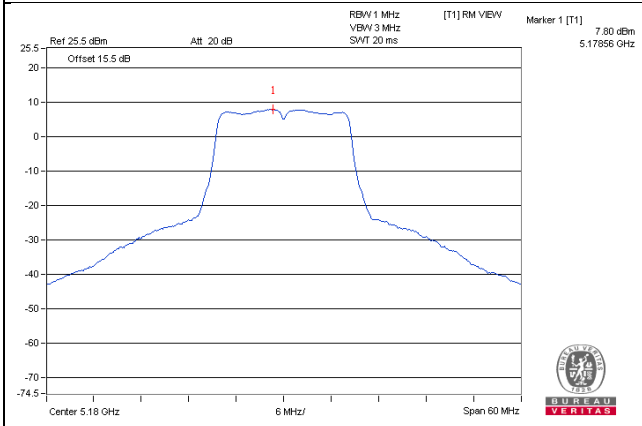
Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5190MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.75dBi > 6dBi , so the power density limit shall be reduced to 17-(6.75-6) = 16.25dBm.
3. For 5230MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 6.74dBi > 6dBi , so the power density limit shall be reduced to 17-(6.74-6) = 16.26dBm.

Chan.	Chan. Freq. (MHz)	PSD(dBm/100kHz)		Total PSD (dBm/100k Hz)	Duty Factor (dB)	Total PSD (dBm/500k Hz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
		Chain 1	Chain 2						
151	5755	-7.48	-7.04	-4.24	0.15	2.90	4.99	30	Pass
159	5795	-8.01	-8.28	-5.13	0.15	2.01	4.93	30	Pass

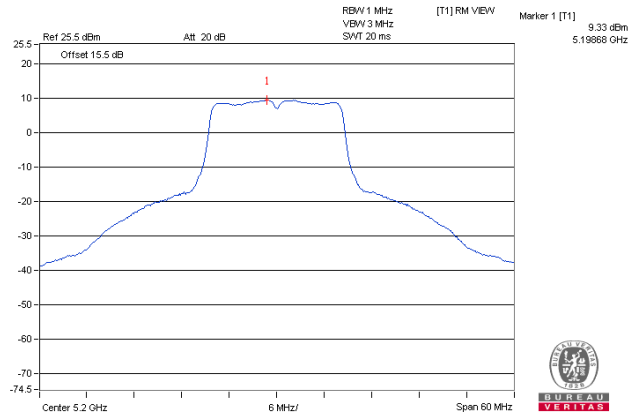
Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/100kHz) + 6.99dB+ Duty Factor (dB)
2. For 5755MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.99dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5795MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.93dBi < 6dBi, so the power density limit shall not be reduced.

PSD SPECTRUM PLOT

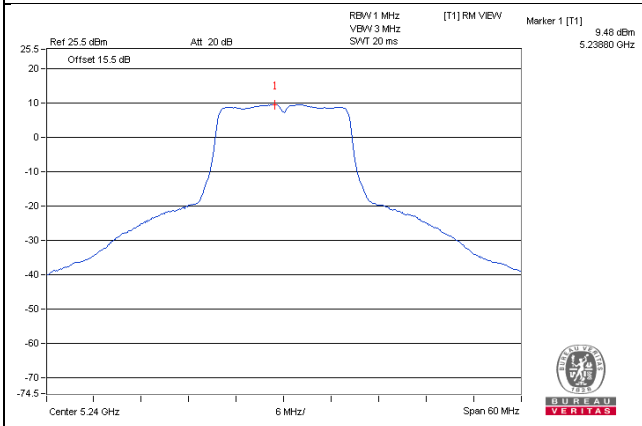
11a 1S2T CDD CH36



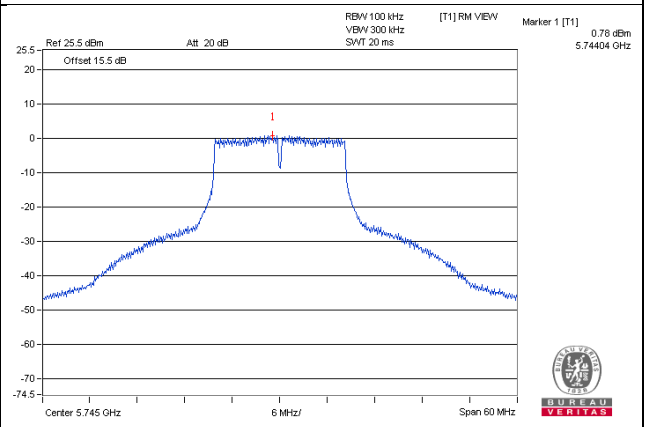
11a 1S2T CDD CH40



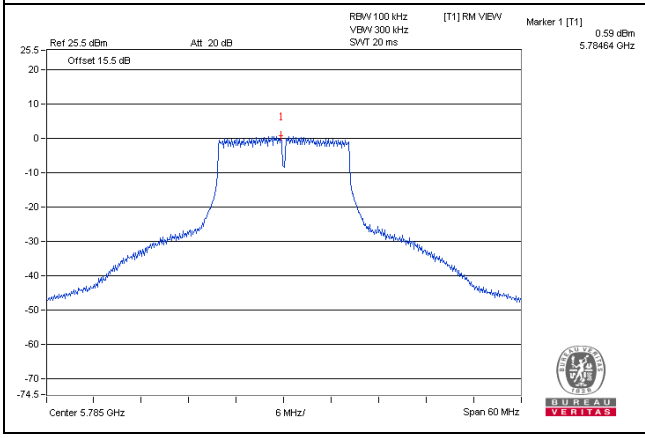
11a 1S2T CDD CH48



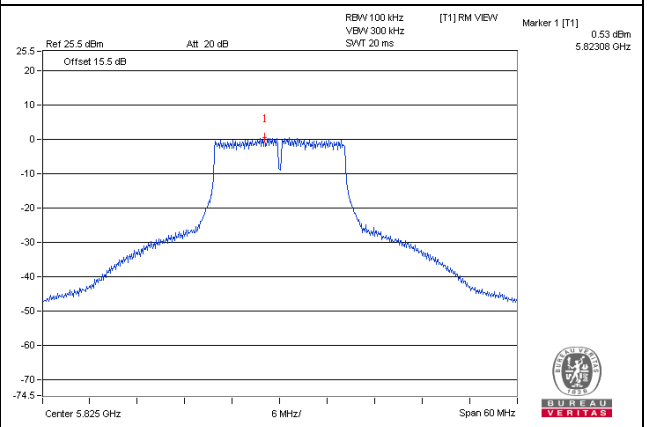
11a 1S2T CDD CH149



11a 1S2T CDD CH157

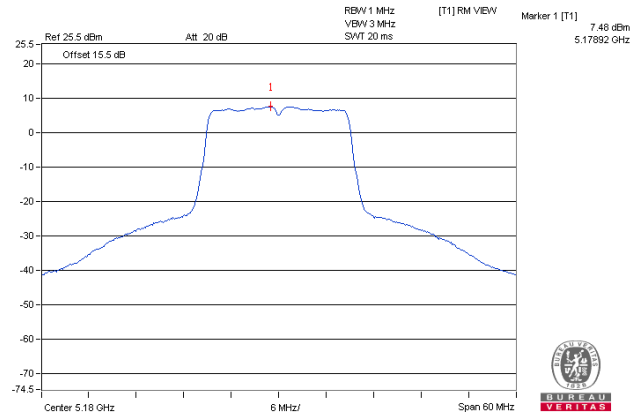


11a 1S2T CDD CH165

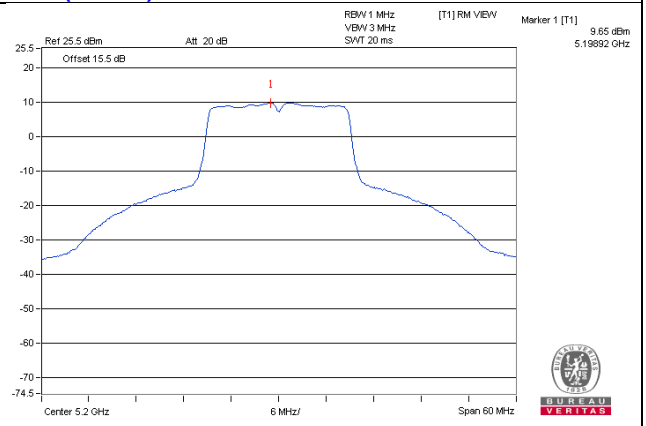


PSD SPECTRUM PLOT

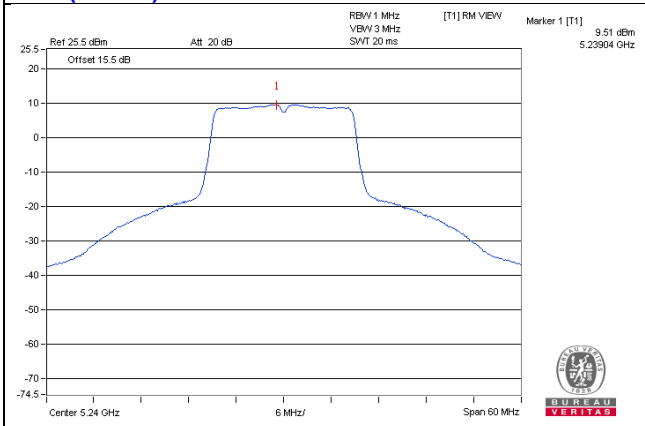
11ac (20MHz) 1S2T CDD CH36



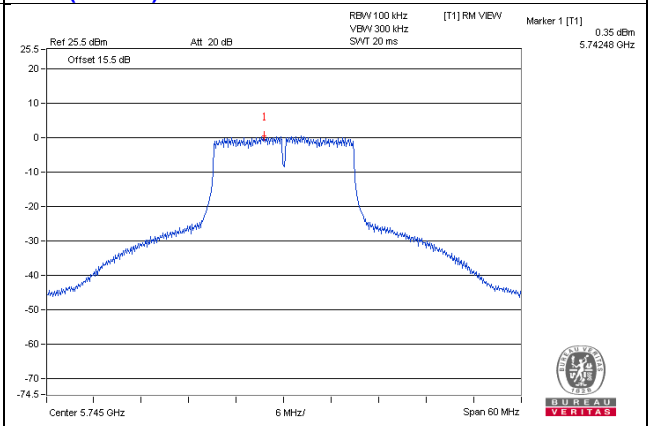
11ac (20MHz) 1S2T CDD CH40



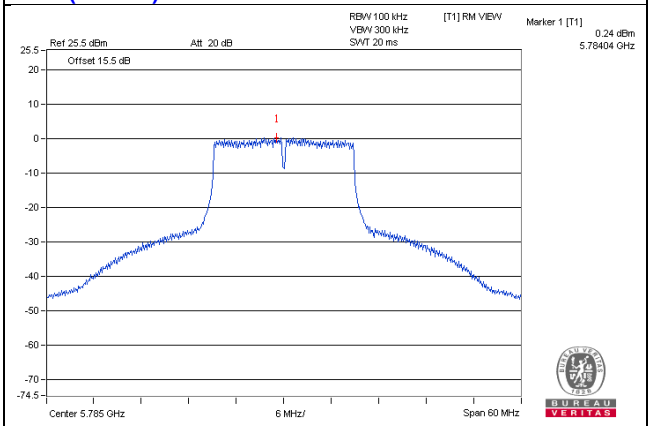
11ac (20MHz) 1S2T CDD CH48



11ac (20MHz) 1S2T CDD CH149



11ac (20MHz) 1S2T CDD CH157



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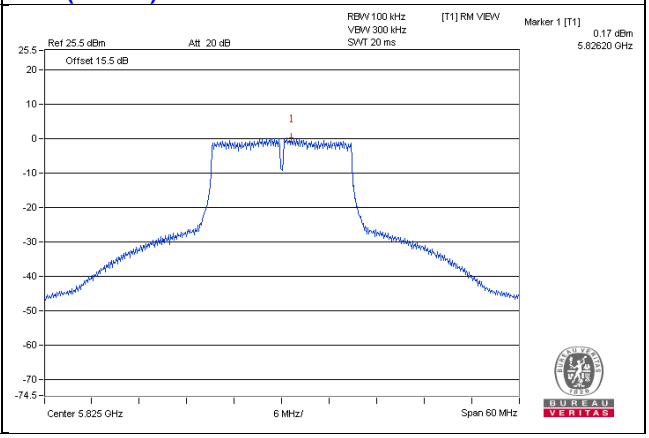
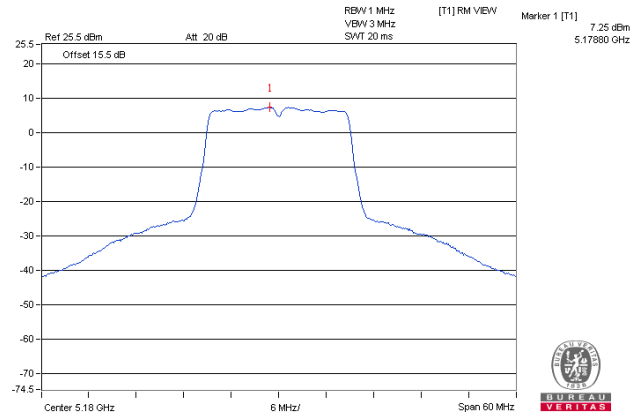
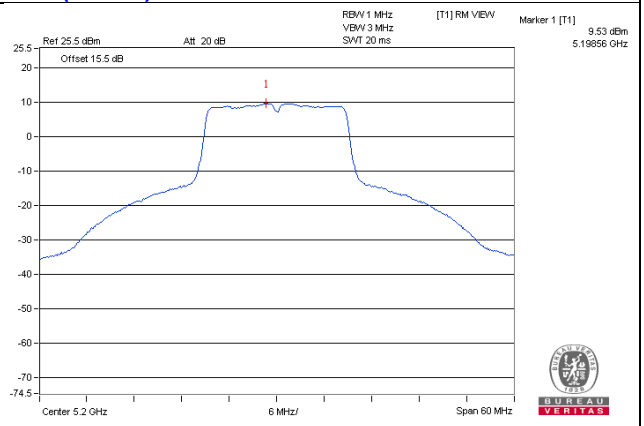


PSD SPECTRUM PLOT

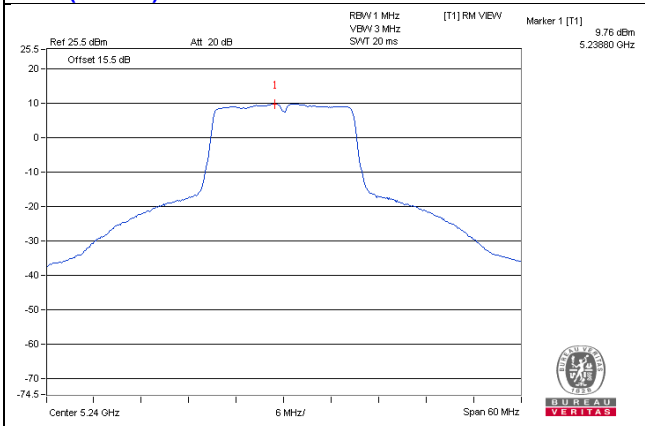
11ac (20MHz) 1S2T TXBF CH36



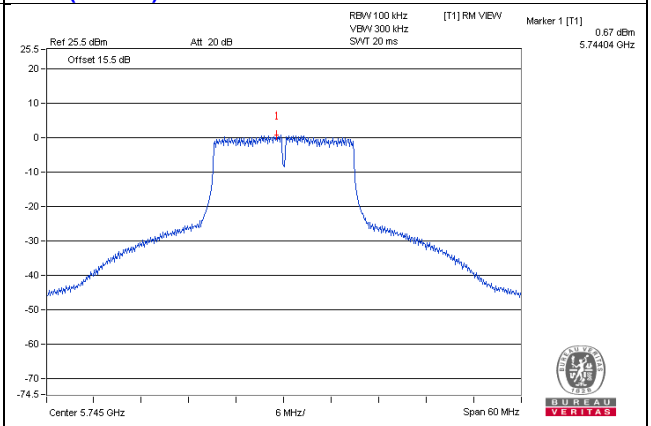
11ac (20MHz) 1S2T TXBF CH40



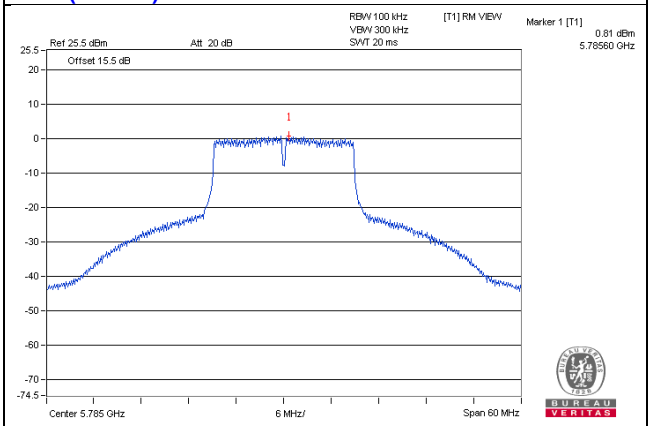
11ac (20MHz) 1S2T TXBF CH48



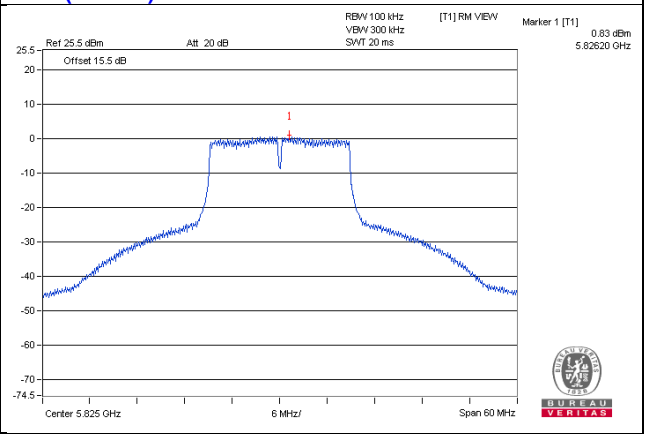
11ac (20MHz) 1S2T TXBF CH149



11ac (20MHz) 1S2T TXBF CH157

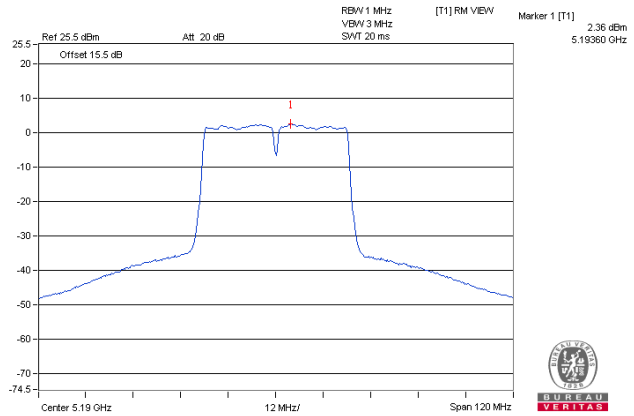


11ac (20MHz) 1S2T TXBF CH165

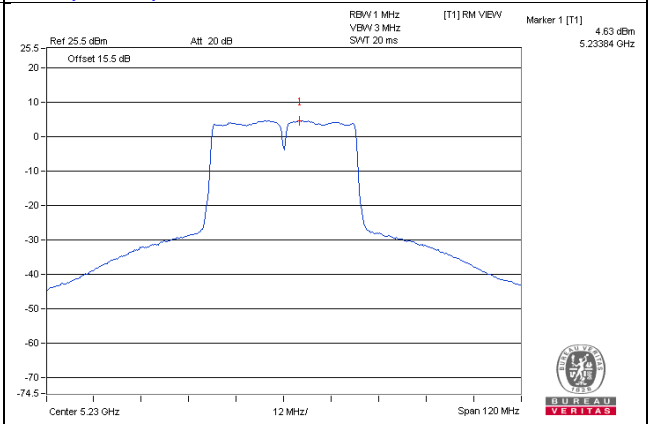


PSD SPECTRUM PLOT

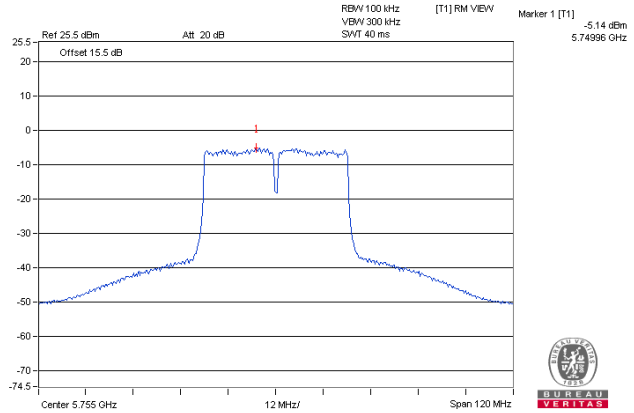
11ac (40MHz) 1S2T CDD CH38



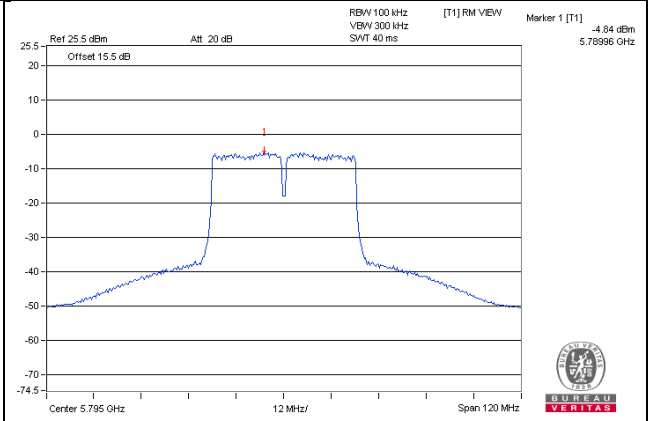
11ac (40MHz) 1S2T CDD CH46



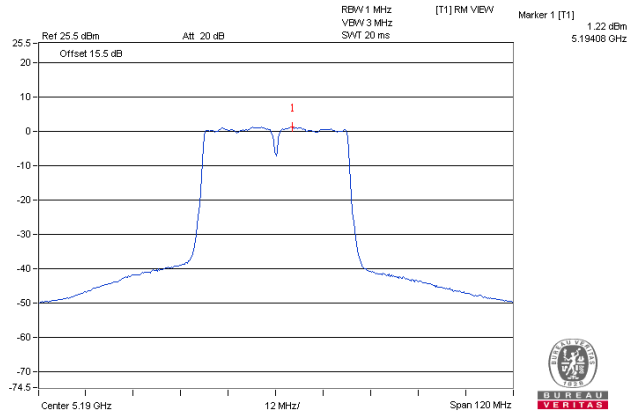
11ac (40MHz) 1S2T CDD CH151



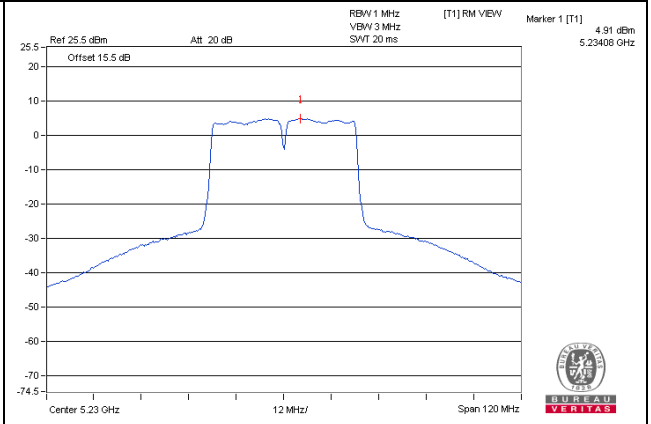
11ac (40MHz) 1S2T CDD CH159



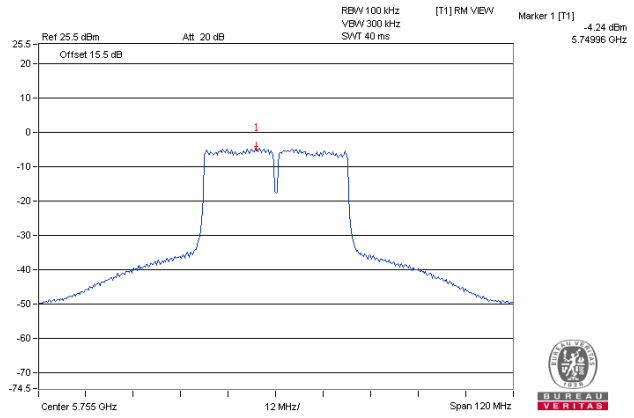
11ac (40MHz) 1S2T TXBF CH38



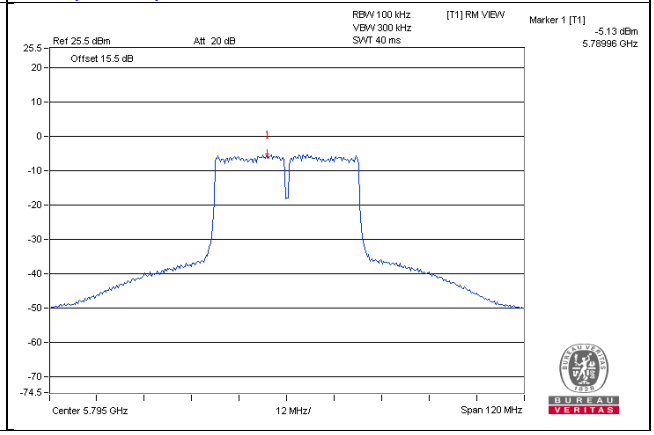
11ac (40MHz) 1S2T TXBF CH46



11ac (40MHz) 1S2T TXBF CH151



11ac (40MHz) 1S2T TXBF CH159



4.6 Radiated Emission and Bandedge Measurement

4.6.1 Limits of Unwanted emissions in the restricted bands

Radiated emissions which fall within the restricted band specified on 15.205(a) must comply with the radiated emission limits specified as below table:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.6.2 Limits of Unwanted emissions out of the restricted bands

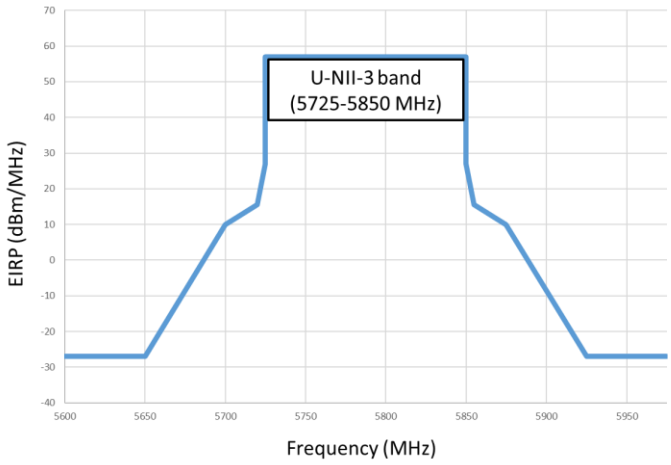
Applicable To			Limit	
789033 D02 General UNII Test Procedure			Field Strength at 3m	
			PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☒	15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



15.407 new rule(FCC16-24)	
Frequency	Limit(dBm/MHz)
5460	-27
5650	-27
5700	10
5720	15.6
5725	27
5725	N/A
5850	
5850	27
5855	15.6
5875	10
5925	-27
7250	-27

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts).

4.6.3 Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1GHz
Stop Frequency	10th Carrier Harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, Duty cycle ≧ 98% 1MHz / 10Hz for Average Duty cycle < 98% 1MHz / (1/T) for Average, where T is pulse time.
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for Peak
Detector	Peak
Trace mode	Max Hold.

Note : According to KDB 789033 D02 v01 r03 G. 6. d) Method VB.

• As an alternative, the analyzer may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some analyzers require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1GHz / RBW 120kHz for QP

4.6.4 Test Procedures

1 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

2 Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.

3 The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.

4 For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

5 Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode

6 For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer for Duty ≥ 98%, 1MHz RBW and VBW is ≥ 1/T for average reading in spectrum analyzer for Duty < 98%.

7 When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

8 If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.

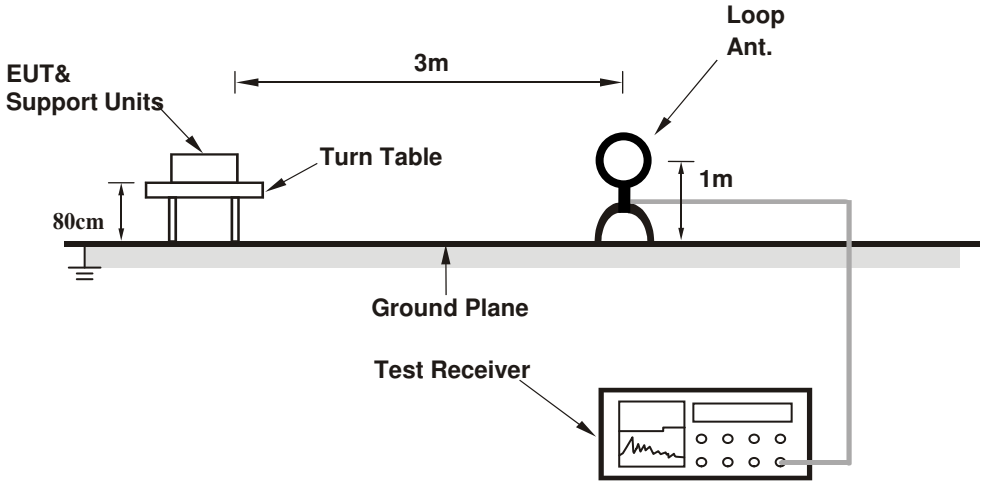
9 For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

10 As the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

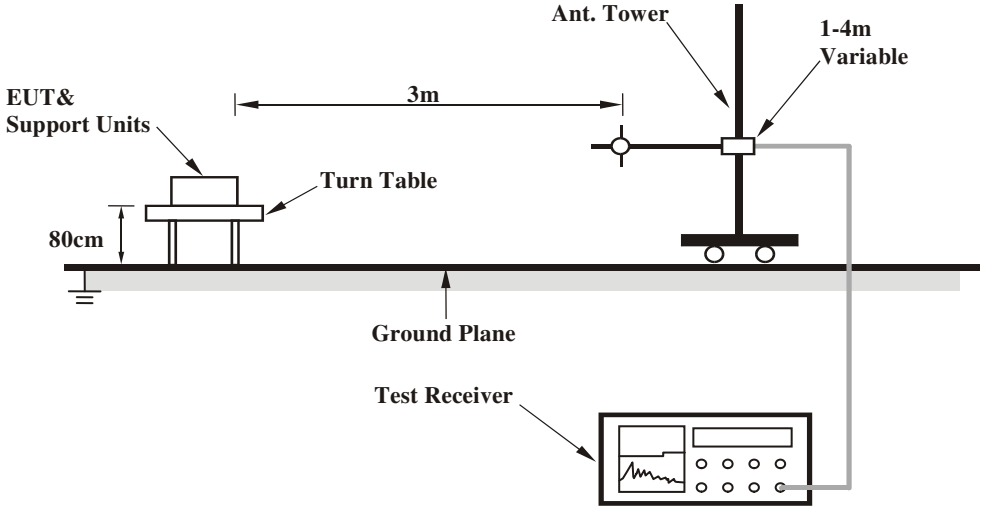
4.6.5 Test Setup Layout

Setup

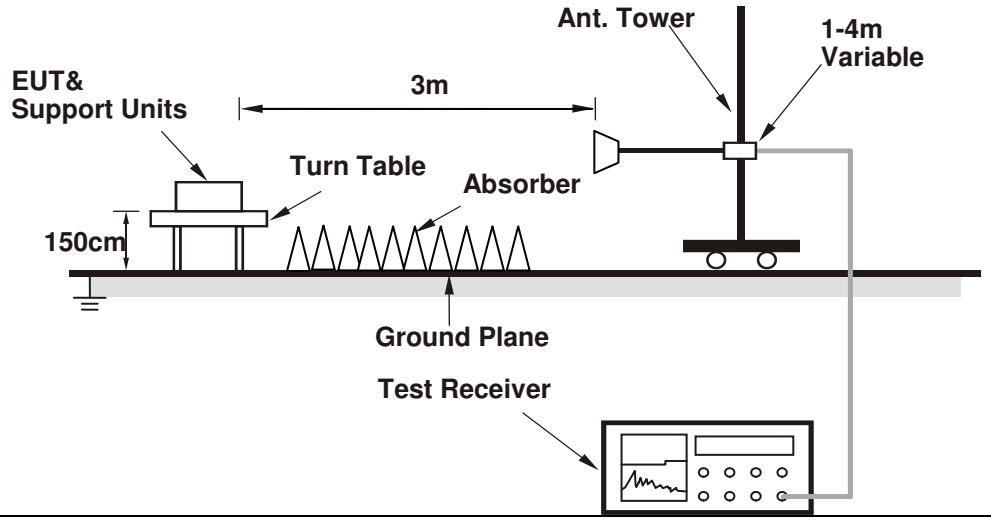
For Radiated Emissions below 1GHz (9kHz~30MHz)



For Radiated Emissions below 1GHz (30MHz~1GHz)



For Radiated Emissions above 1GHz



4.6.6 Test Deviation

There are no deviations with the original standard.

4.6.7 EUT Operating Conditions

The EUT was programmed to be in continuously transmitting mode.

4.6.8 Test Results of Radiated Emissions and Bandedge

Temperature	23°C	Humidity	70%
Test Engineer	Weiwei Lo		

Radiated Emissions Range 9kHz~30MHz

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Radiated Emissions Range 30MHz~1GHz

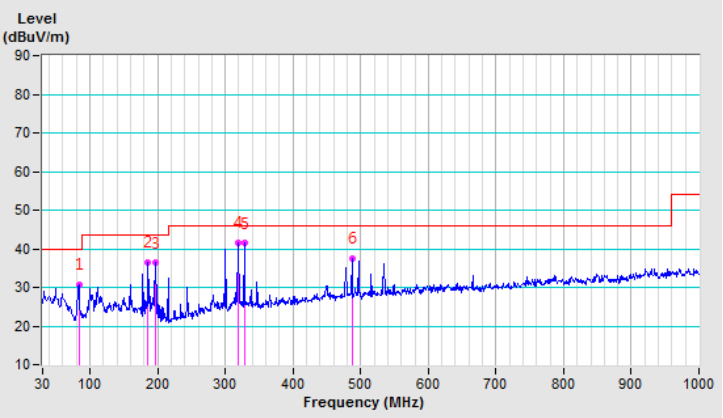
802.11ac (20MHz)

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	83.71	30.7 QP	40.0	-9.3	2.00 H	111	44.5	-13.8
2	186.15	36.5 QP	43.5	-7.0	1.50 H	270	47.1	-10.6
3	196.86	36.3 QP	43.5	-7.2	2.00 H	293	47.7	-11.4
4	318.74	41.5 QP	46.0	-4.5	1.00 H	201	48.1	-6.6
5	328.13	41.4 QP	46.0	-4.6	1.00 H	293	47.8	-6.4
6	487.50	37.6 QP	46.0	-8.4	1.50 H	131	40.5	-2.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

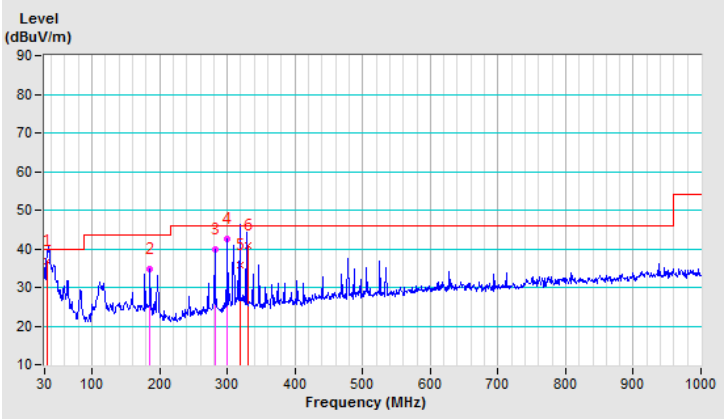


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	**34.27**	**36.9 QP**	**40.0**	**-3.1**	**1.00 V**	**93**	**46.0**	**-9.1**
2	186.15	34.9 QP	43.5	-8.6	1.50 V	360	45.5	-10.6
3	281.25	39.9 QP	46.0	-6.1	1.50 V	242	48.0	-8.1
4	300.00	42.6 QP	46.0	-3.4	1.50 V	323	49.9	-7.3
5	318.81	35.9 QP	46.0	-10.1	1.50 V	262	42.5	-6.6
6	330.32	40.9 QP	46.0	-5.1	2.00 V	0	47.2	-6.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Radiated Emission Range 1GHz~10th Harmonic

CDD Mode

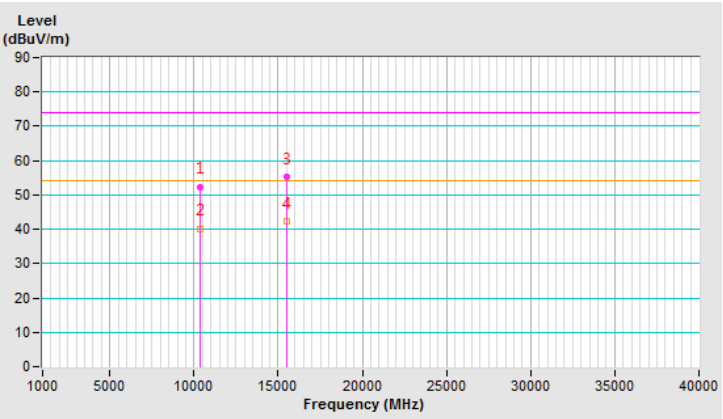
802.11ac (20MHz) 1S2T CDD MCS0

CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	#10360.00	52.4 PK	74.0	-21.6	1.50 H	201	38.8	13.6
2	#10360.00	40.2 AV	54.0	-13.8	1.50 H	201	26.6	13.6
3	15540.00	55.2 PK	74.0	-18.8	1.58 H	165	39.5	15.7
4	15540.00	42.3 AV	54.0	-11.7	1.58 H	165	26.6	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

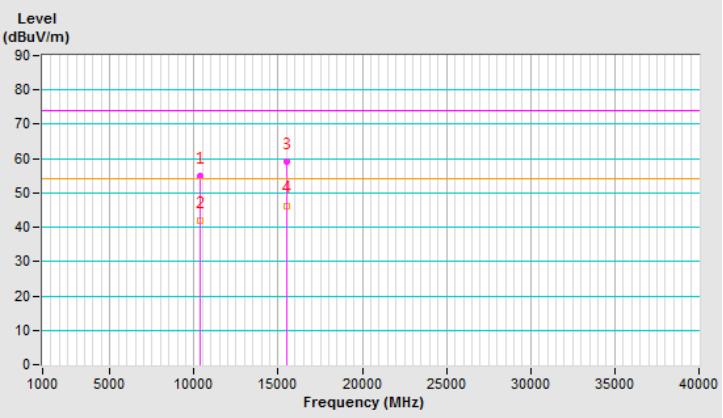


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10360.00	54.9 PK	74.0	-19.1	1.59 V	106	41.3	13.6
2	#10360.00	41.9 AV	54.0	-12.1	1.59 V	106	28.3	13.6
3	15540.00	59.1 PK	74.0	-14.9	1.58 V	79	43.4	15.7
4	15540.00	46.3 AV	54.0	-7.7	1.58 V	79	30.6	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

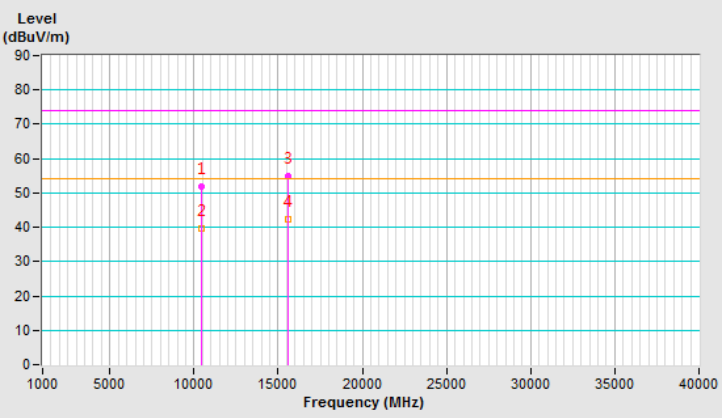


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10400.00	51.8 PK	74.0	-22.2	1.51 H	199	38.2	13.6
2	#10400.00	39.6 AV	54.0	-14.4	1.51 H	199	26.0	13.6
3	15600.00	54.9 PK	74.0	-19.1	1.58 H	174	39.2	15.7
4	15600.00	42.2 AV	54.0	-11.8	1.58 H	174	26.5	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

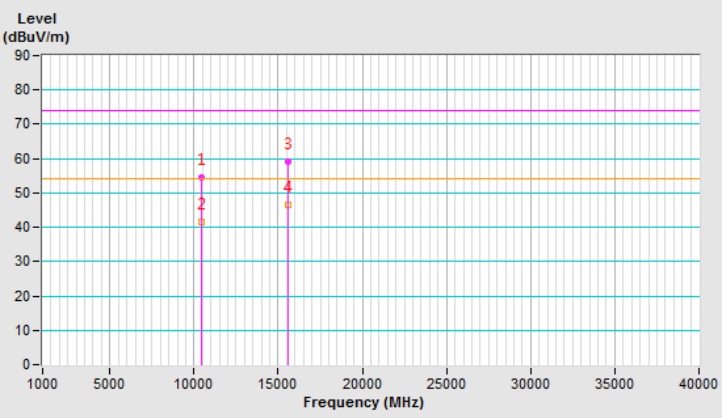


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10400.00	54.4 PK	74.0	-19.6	1.62 V	113	40.8	13.6
2	#10400.00	41.4 AV	54.0	-12.6	1.62 V	113	27.8	13.6
3	15600.00	59.1 PK	74.0	-14.9	1.58 V	93	43.4	15.7
4	15600.00	46.4 AV	54.0	-7.6	1.58 V	93	30.7	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

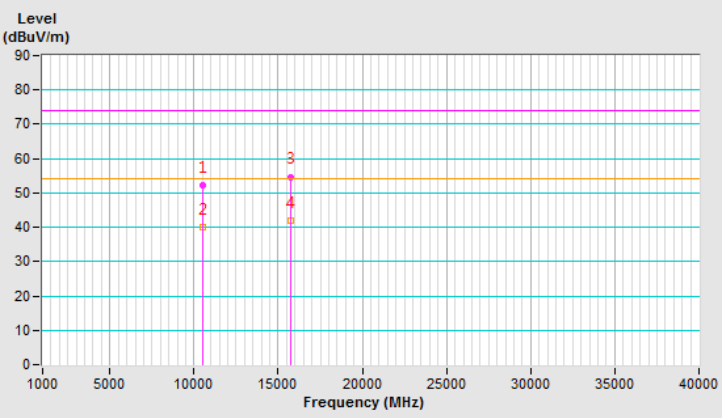


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10480.00	52.3 PK	74.0	-21.7	1.56 H	199	38.3	14.0
2	#10480.00	40.0 AV	54.0	-14.0	1.56 H	199	26.0	14.0
3	15720.00	54.7 PK	74.0	-19.3	1.50 H	187	39.3	15.4
4	15720.00	41.8 AV	54.0	-12.2	1.50 H	187	26.4	15.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

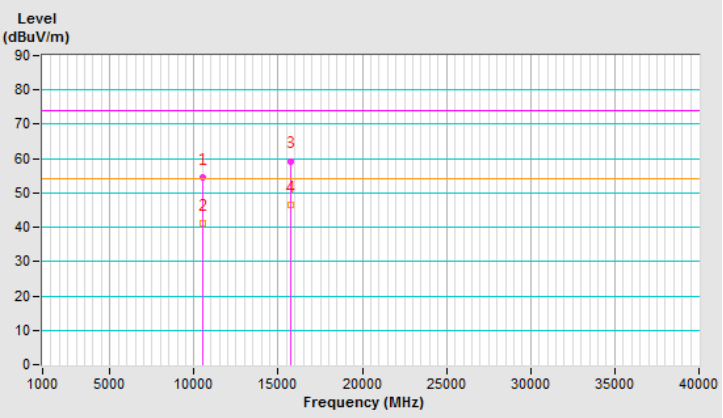


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10480.00	54.4 PK	74.0	-19.6	1.61 V	105	40.4	14.0
2	#10480.00	41.0 AV	54.0	-13.0	1.61 V	105	27.0	14.0
3	15720.00	59.3 PK	74.0	-14.7	1.50 V	106	43.9	15.4
4	15720.00	46.5 AV	54.0	-7.5	1.50 V	106	31.1	15.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

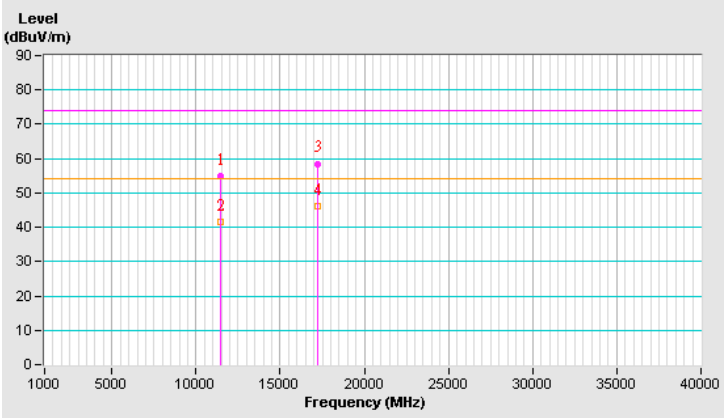


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	55.0 PK	74.0	-19.0	1.47 H	168	39.8	15.2
2	11490.00	41.6 AV	54.0	-12.4	1.47 H	168	26.4	15.2
3	#17235.00	58.5 PK	74.0	-15.5	1.51 H	176	38.5	20.0
4	#17235.00	46.0 AV	54.0	-8.0	1.51 H	176	26.0	20.0

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

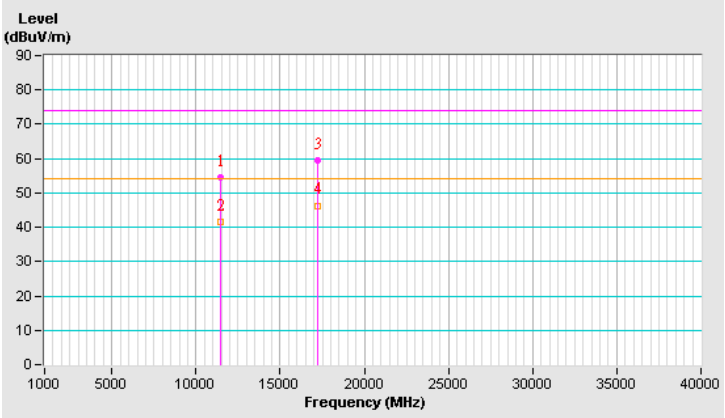


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	54.6 PK	74.0	-19.4	1.59 V	110	39.4	15.2
2	11490.00	41.6 AV	54.0	-12.4	1.59 V	110	26.4	15.2
3	#17235.00	59.5 PK	74.0	-14.5	1.60 V	103	39.5	20.0
4	#17235.00	46.3 AV	54.0	-7.7	1.60 V	103	26.3	20.0

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

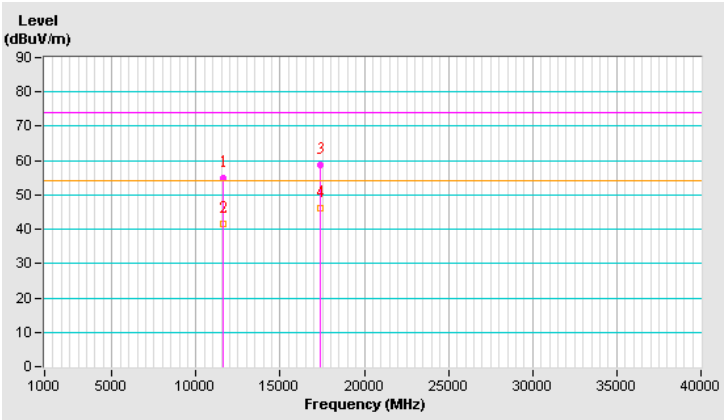


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11570.00	55.0 PK	74.0	-19.0	1.46 H	178	39.9	15.1
2	11570.00	41.6 AV	54.0	-12.4	1.46 H	178	26.5	15.1
3	#17355.00	58.8 PK	74.0	-15.2	1.49 H	175	38.3	20.5
4	#17355.00	46.2 AV	54.0	-7.8	1.49 H	175	25.7	20.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

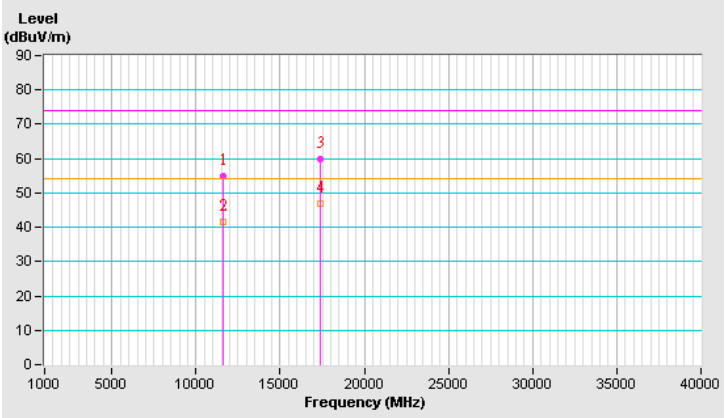


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11570.00	54.8 PK	74.0	-19.2	1.59 V	101	39.7	15.1
2	11570.00	41.6 AV	54.0	-12.4	1.59 V	101	26.5	15.1
3	#17355.00	59.9 PK	74.0	-14.1	1.50 V	102	39.4	20.5
4	#17355.00	46.8 AV	54.0	-7.2	1.50 V	102	26.3	20.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

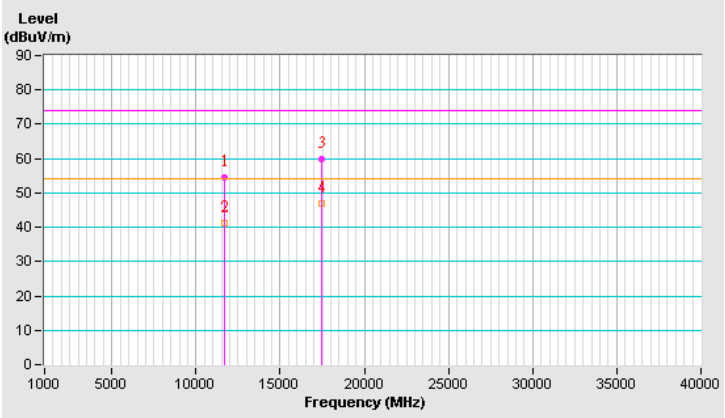


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11650.00	54.5 PK	74.0	-19.5	1.54 H	204	39.5	15.0
2	11650.00	41.3 AV	54.0	-12.7	1.54 H	204	26.3	15.0
3	#17475.00	59.8 PK	74.0	-14.2	1.50 H	189	38.7	21.1
4	#17475.00	46.8 AV	54.0	-7.2	1.50 H	189	25.7	21.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

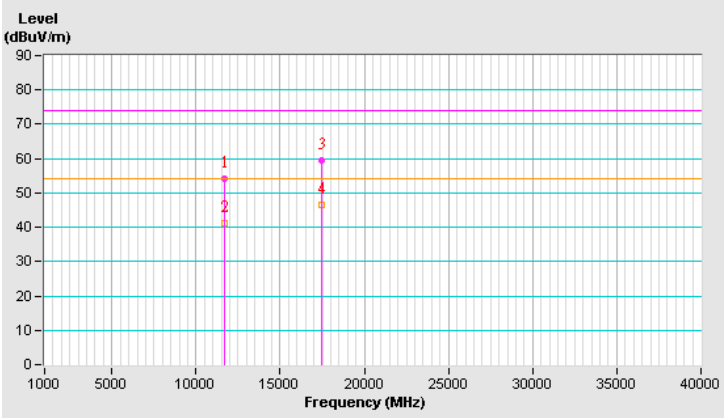


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11650.00	54.2 PK	74.0	-19.8	1.64 V	116	39.2	15.0
2	11650.00	41.0 AV	54.0	-13.0	1.64 V	116	26.0	15.0
3	#17475.00	59.6 PK	74.0	-14.4	1.54 V	87	38.5	21.1
4	#17475.00	46.6 AV	54.0	-7.4	1.54 V	87	25.5	21.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



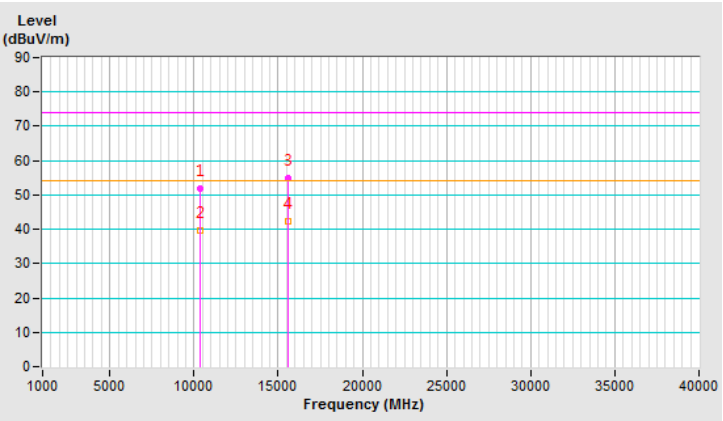
802.11ac (40MHz) 1S2T CDD MCS0

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	#10380.00	52.0 PK	74.0	-22.0	1.58 H	176	38.3	13.7
2	#10380.00	39.6 AV	54.0	-14.4	1.58 H	176	25.9	13.7
3	15570.00	54.9 PK	74.0	-19.1	1.51 H	190	39.3	15.6
4	15570.00	42.3 AV	54.0	-11.7	1.51 H	190	26.7	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

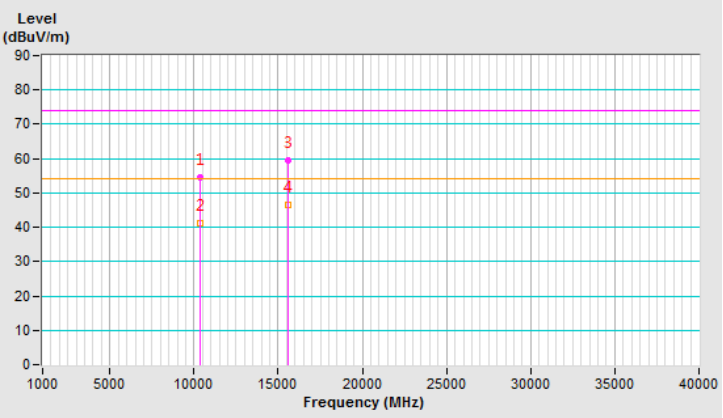


CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10380.00	54.5 PK	74.0	-19.5	1.56 V	112	40.8	13.7
2	#10380.00	41.1 AV	54.0	-12.9	1.56 V	112	27.4	13.7
3	15570.00	59.5 PK	74.0	-14.5	1.61 V	90	43.9	15.6
4	15570.00	46.5 AV	54.0	-7.5	1.61 V	90	30.9	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

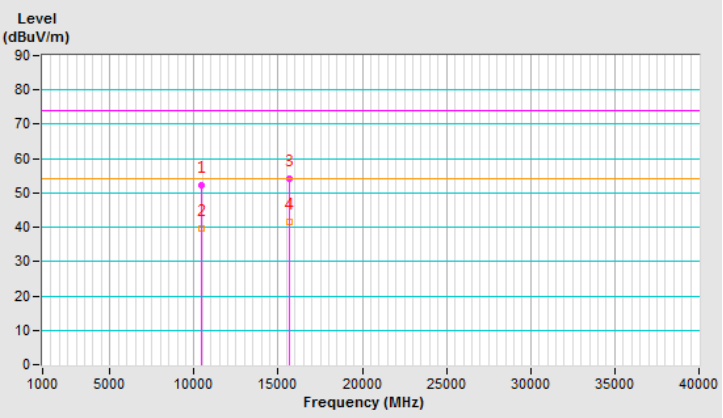


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10460.00	52.2 PK	74.0	-21.8	1.54 H	199	38.3	13.9
2	#10460.00	39.6 AV	54.0	-14.4	1.54 H	199	25.7	13.9
3	15690.00	54.3 PK	74.0	-19.7	1.58 H	193	38.7	15.6
4	15690.00	41.7 AV	54.0	-12.3	1.58 H	193	26.1	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

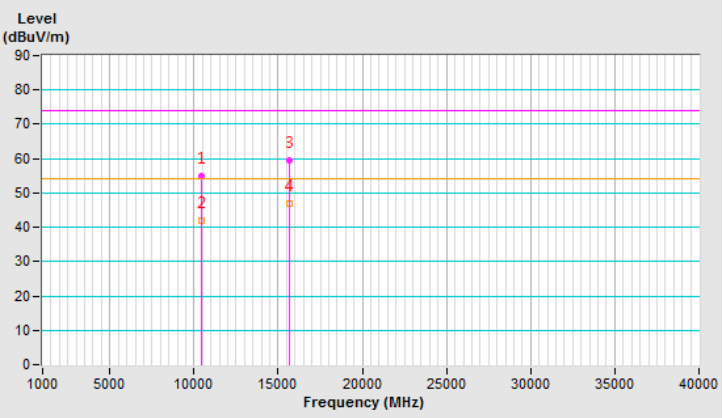


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10460.00	55.0 PK	74.0	-19.0	1.65 V	108	41.1	13.9
2	#10460.00	41.9 AV	54.0	-12.1	1.65 V	108	28.0	13.9
3	15690.00	59.5 PK	74.0	-14.5	1.54 V	78	43.9	15.6
4	15690.00	46.9 AV	54.0	-7.1	1.54 V	78	31.3	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

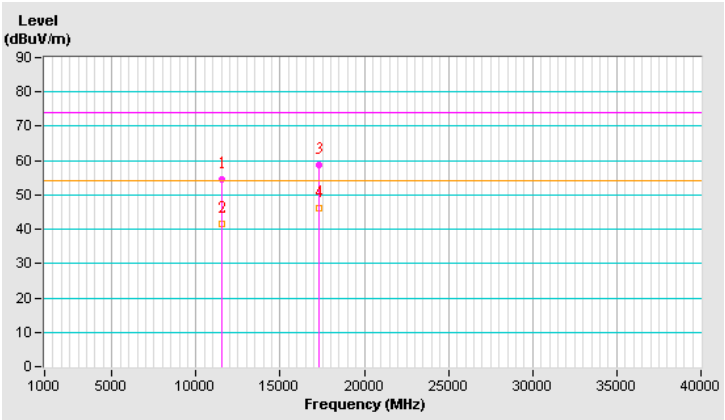


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11510.00	54.6 PK	74.0	-19.4	1.53 H	174	39.5	15.1
2	11510.00	41.4 AV	54.0	-12.6	1.53 H	174	26.3	15.1
3	#17265.00	58.8 PK	74.0	-15.2	1.47 H	176	38.9	19.9
4	#17265.00	46.2 AV	54.0	-7.8	1.47 H	176	26.3	19.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

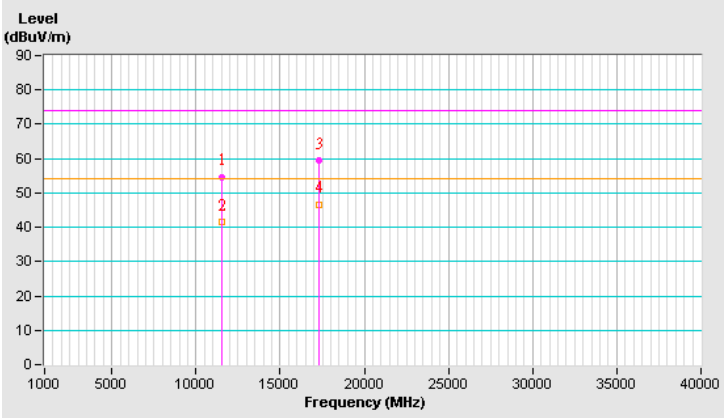


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11510.00	54.7 PK	74.0	-19.3	1.64 V	116	39.6	15.1
2	11510.00	41.4 AV	54.0	-12.6	1.64 V	116	26.3	15.1
3	#17265.00	59.4 PK	74.0	-14.6	1.56 V	97	39.5	19.9
4	#17265.00	46.7 AV	54.0	-7.3	1.56 V	97	26.8	19.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

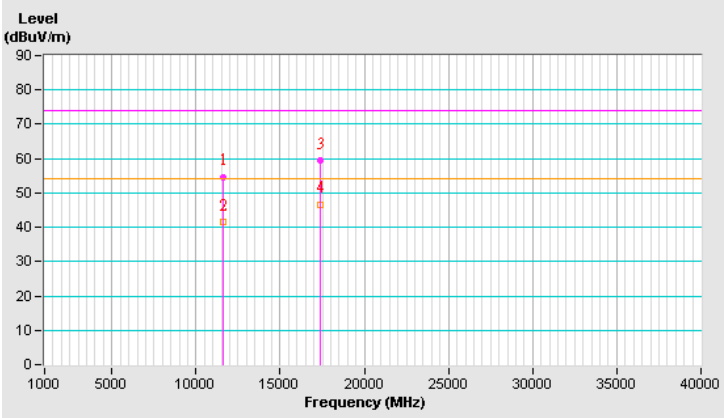


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11590.00	54.7 PK	74.0	-19.3	1.47 H	189	39.6	15.1
2	11590.00	41.4 AV	54.0	-12.6	1.47 H	189	26.3	15.1
3	#17385.00	59.6 PK	74.0	-14.4	1.54 H	161	39.0	20.6
4	#17385.00	46.7 AV	54.0	-7.3	1.54 H	161	26.1	20.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

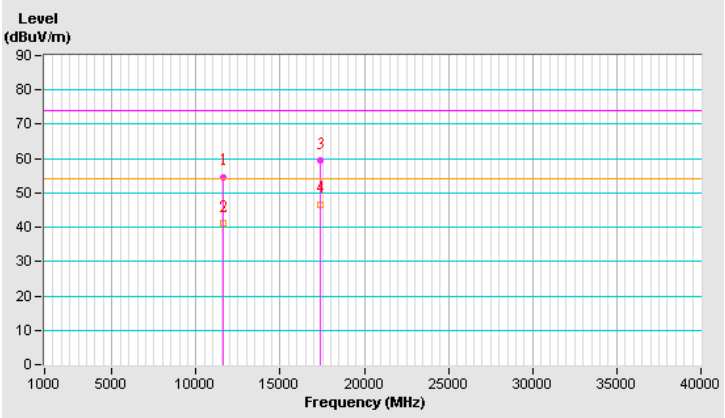


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11590.00	54.7 PK	74.0	-19.3	1.62 V	120	39.6	15.1
2	11590.00	41.2 AV	54.0	-12.8	1.62 V	120	26.1	15.1
3	#17385.00	59.6 PK	74.0	-14.4	1.56 V	97	39.0	20.6
4	#17385.00	46.7 AV	54.0	-7.3	1.56 V	97	26.1	20.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



TxBF Mode

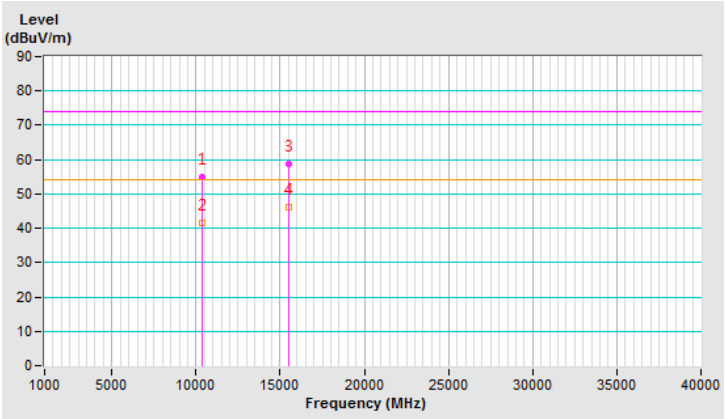
802.11ac (20MHz) 1S2T TxBF MCS0

CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	#10360.00	54.8 PK	74.0	-19.2	1.49 H	170	41.2	13.6
2	#10360.00	41.6 AV	54.0	-12.4	1.49 H	170	28.0	13.6
3	15540.00	58.8 PK	74.0	-15.2	1.50 H	181	43.1	15.7
4	15540.00	46.1 AV	54.0	-7.9	1.50 H	181	30.4	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

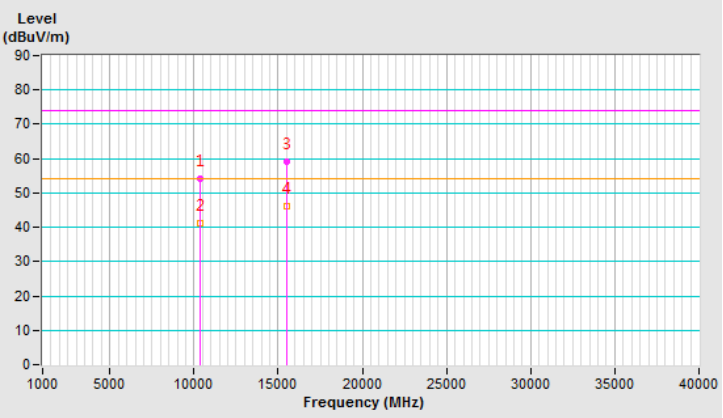


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10360.00	54.2 PK	74.0	-19.8	1.61 V	110	40.6	13.6
2	#10360.00	41.0 AV	54.0	-13.0	1.61 V	110	27.4	13.6
3	15540.00	59.0 PK	74.0	-15.0	1.62 V	89	43.3	15.7
4	15540.00	46.0 AV	54.0	-8.0	1.62 V	89	30.3	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

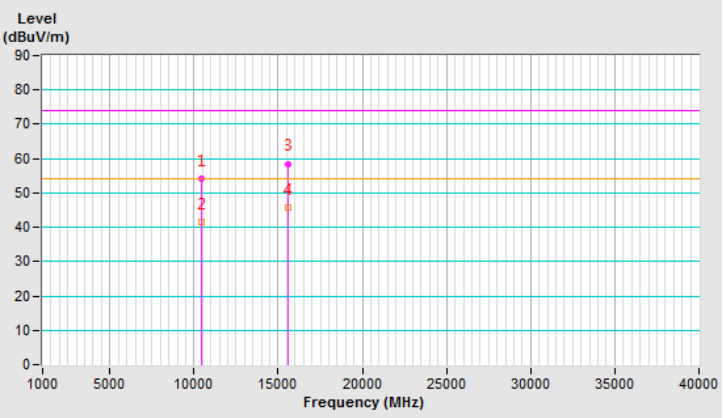


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10400.00	54.3 PK	74.0	-19.7	1.47 H	193	40.7	13.6
2	#10400.00	41.4 AV	54.0	-12.6	1.47 H	193	27.8	13.6
3	15600.00	58.5 PK	74.0	-15.5	1.44 H	171	42.8	15.7
4	15600.00	45.7 AV	54.0	-8.3	1.44 H	171	30.0	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

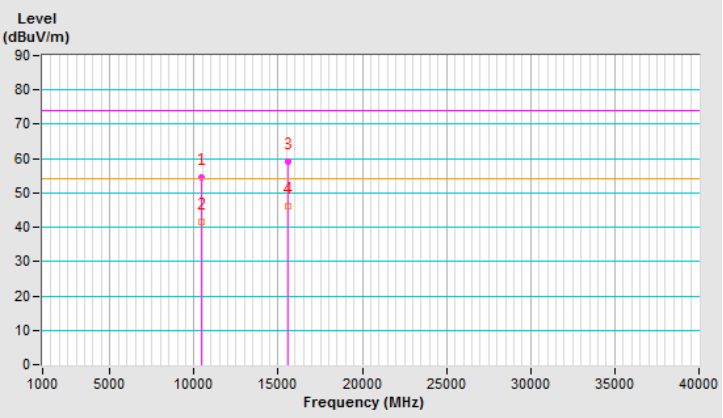


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10400.00	54.6 PK	74.0	-19.4	1.59 V	122	41.0	13.6
2	#10400.00	41.5 AV	54.0	-12.5	1.59 V	122	27.9	13.6
3	15600.00	59.2 PK	74.0	-14.8	1.65 V	105	43.5	15.7
4	15600.00	46.2 AV	54.0	-7.8	1.65 V	105	30.5	15.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

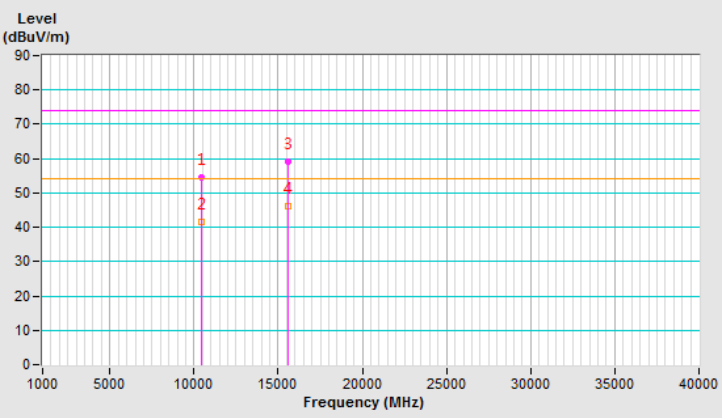


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10480.00	54.6 PK	74.0	-19.4	1.51 H	184	40.6	14.0
2	#10480.00	41.2 AV	54.0	-12.8	1.51 H	184	27.2	14.0
3	15720.00	59.2 PK	74.0	-14.8	1.50 H	158	43.8	15.4
4	15720.00	46.3 AV	54.0	-7.7	1.50 H	158	30.9	15.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

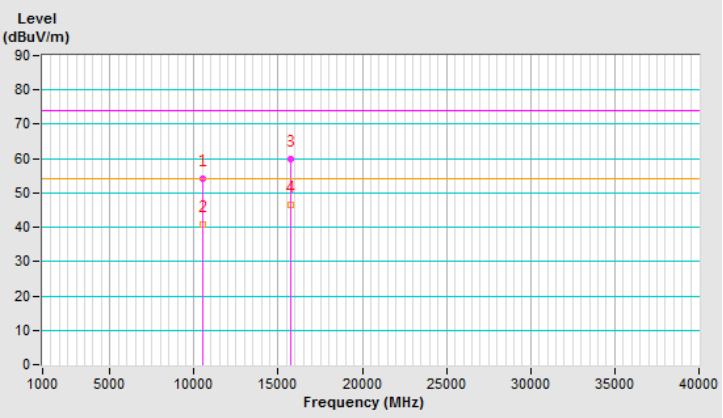


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10480.00	54.2 PK	74.0	-19.8	1.68 V	116	40.2	14.0
2	#10480.00	40.8 AV	54.0	-13.2	1.68 V	116	26.8	14.0
3	15720.00	59.8 PK	74.0	-14.2	1.58 V	104	44.4	15.4
4	15720.00	46.6 AV	54.0	-7.4	1.58 V	104	31.2	15.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

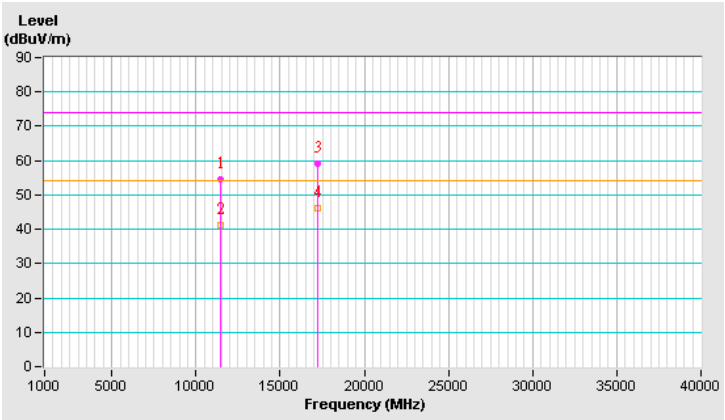


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	54.4 PK	74.0	-19.6	1.47 H	179	39.7	14.7
2	11490.00	41.2 AV	54.0	-12.8	1.47 H	179	26.5	14.7
3	#17235.00	59.1 PK	74.0	-14.9	1.48 H	172	38.9	20.2
4	#17235.00	46.1 AV	54.0	-7.9	1.48 H	172	25.9	20.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

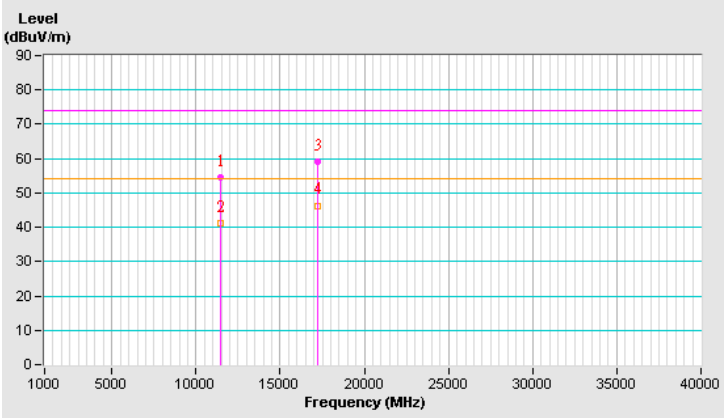


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11490.00	54.5 PK	74.0	-19.5	1.65 V	120	39.8	14.7
2	11490.00	41.2 AV	54.0	-12.8	1.65 V	120	26.5	14.7
3	#17235.00	59.2 PK	74.0	-14.8	1.59 V	104	39.0	20.2
4	#17235.00	46.3 AV	54.0	-7.7	1.59 V	104	26.1	20.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

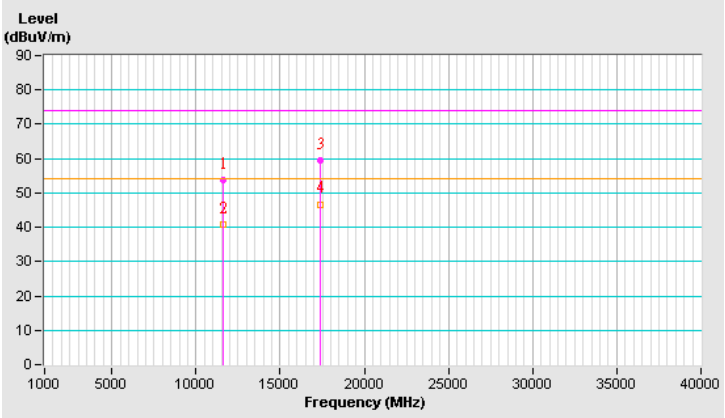


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11570.00	53.8 PK	74.0	-20.2	1.45 H	198	39.1	14.7
2	11570.00	40.7 AV	54.0	-13.3	1.45 H	198	26.0	14.7
3	#17355.00	59.5 PK	74.0	-14.5	1.55 H	182	38.8	20.7
4	#17355.00	46.7 AV	54.0	-7.3	1.55 H	182	26.0	20.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

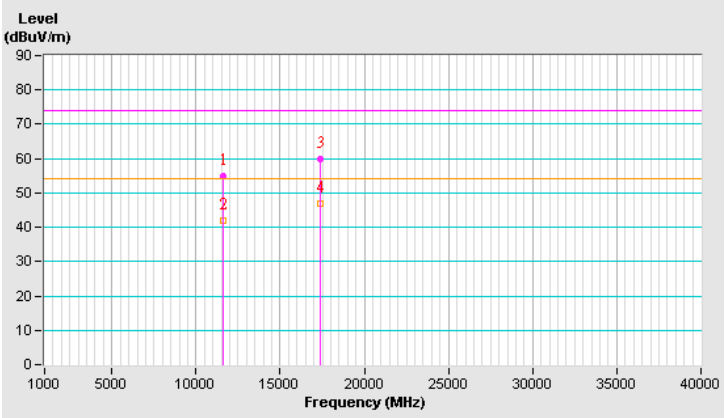


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11570.00	55.0 PK	74.0	-19.0	1.62 V	105	40.3	14.7
2	11570.00	41.8 AV	54.0	-12.2	1.62 V	105	27.1	14.7
3	#17355.00	59.9 PK	74.0	-14.1	1.51 V	100	39.2	20.7
4	#17355.00	46.9 AV	54.0	-7.1	1.51 V	100	26.2	20.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

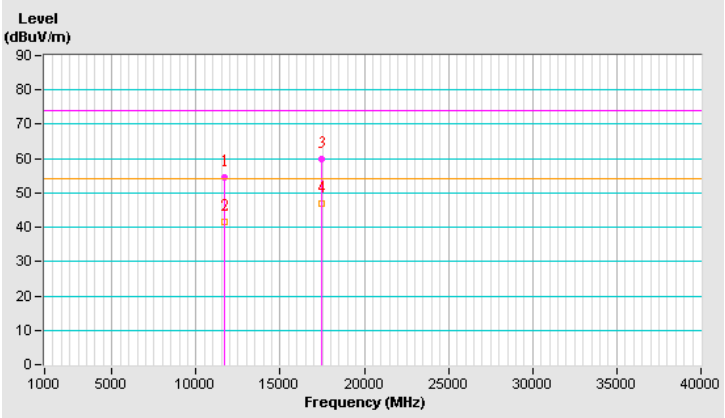


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11650.00	54.6 PK	74.0	-19.4	1.49 H	191	39.8	14.8
2	11650.00	41.5 AV	54.0	-12.5	1.49 H	191	26.7	14.8
3	#17475.00	59.9 PK	74.0	-14.1	1.46 H	159	38.5	21.4
4	#17475.00	47.0 AV	54.0	-7.0	1.46 H	159	25.6	21.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

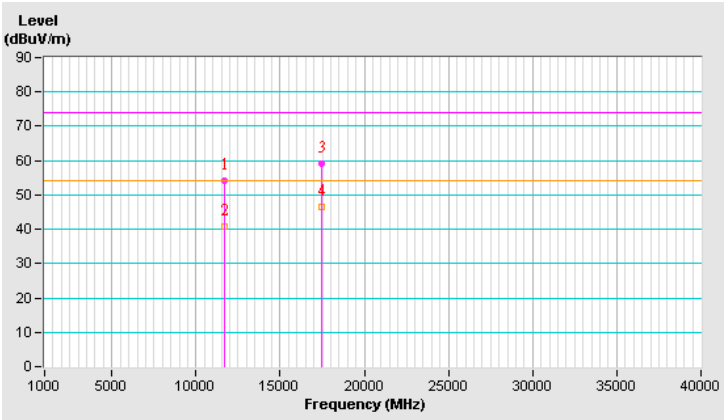


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11650.00	54.3 PK	74.0	-19.7	1.59 V	114	39.5	14.8
2	11650.00	40.9 AV	54.0	-13.1	1.59 V	114	26.1	14.8
3	#17475.00	59.2 PK	74.0	-14.8	1.59 V	89	37.8	21.4
4	#17475.00	46.5 AV	54.0	-7.5	1.59 V	89	25.1	21.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



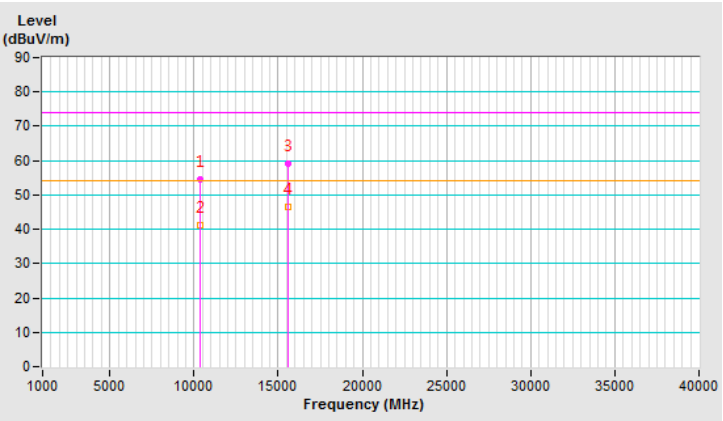
802.11ac (40MHz) 1S2T TxBF MCS0

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	#10380.00	54.6 PK	74.0	-19.4	1.51 H	169	40.9	13.7
2	#10380.00	41.3 AV	54.0	-12.7	1.51 H	169	27.6	13.7
3	15570.00	59.2 PK	74.0	-14.8	1.45 H	162	43.6	15.6
4	15570.00	46.5 AV	54.0	-7.5	1.45 H	162	30.9	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

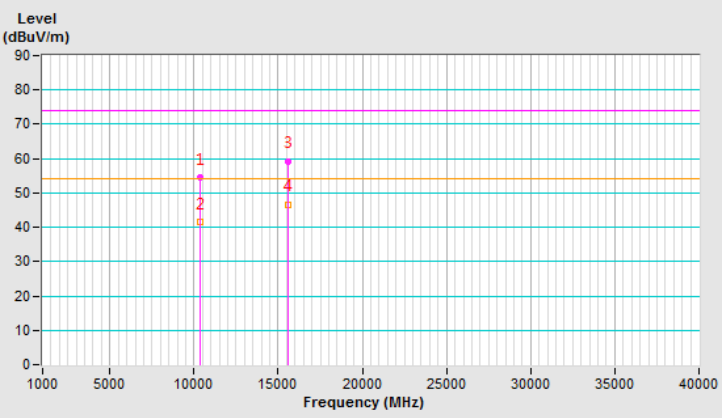


CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10380.00	54.5 PK	74.0	-19.5	1.54 V	95	40.8	13.7
2	#10380.00	41.5 AV	54.0	-12.5	1.54 V	95	27.8	13.7
3	15570.00	59.3 PK	74.0	-14.7	1.56 V	114	43.7	15.6
4	15570.00	46.7 AV	54.0	-7.3	1.56 V	114	31.1	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

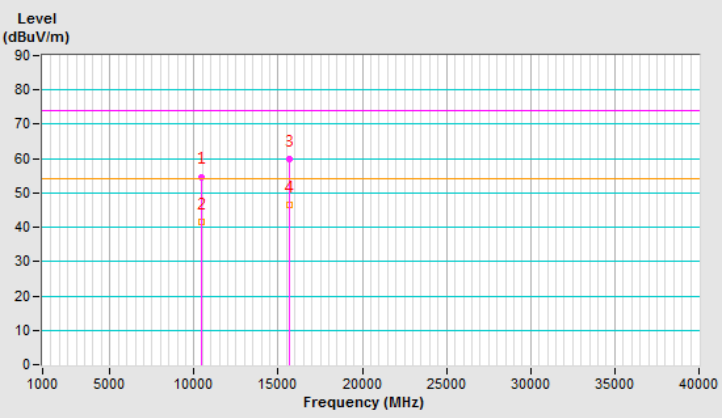


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10460.00	54.7 PK	74.0	-19.3	1.49 H	178	40.8	13.9
2	#10460.00	41.6 AV	54.0	-12.4	1.49 H	178	27.7	13.9
3	15690.00	59.7 PK	74.0	-14.3	1.49 H	172	44.1	15.6
4	15690.00	46.5 AV	54.0	-7.5	1.49 H	172	30.9	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

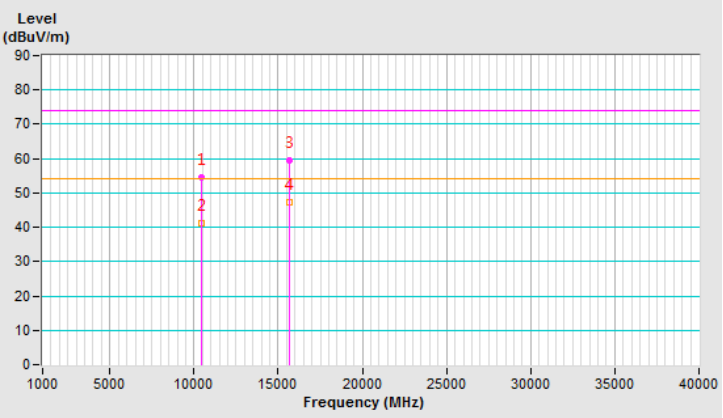


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#10460.00	54.4 PK	74.0	-19.6	1.53 V	94	40.5	13.9
2	#10460.00	41.3 AV	54.0	-12.7	1.53 V	94	27.4	13.9
3	15690.00	59.6 PK	74.0	-14.4	1.58 V	92	44.0	15.6
4	15690.00	47.1 AV	54.0	-6.9	1.58 V	92	31.5	15.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

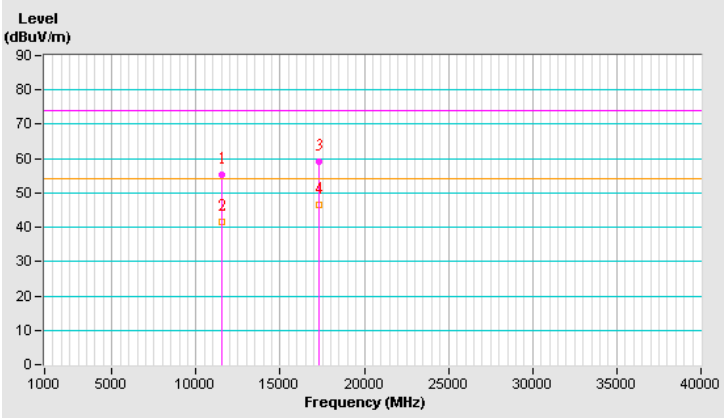


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11510.00	55.3 PK	74.0	-18.7	1.52 H	195	40.7	14.6
2	11510.00	41.7 AV	54.0	-12.3	1.52 H	195	27.1	14.6
3	#17265.00	59.2 PK	74.0	-14.8	1.55 H	178	39.0	20.2
4	#17265.00	46.6 AV	54.0	-7.4	1.55 H	178	26.4	20.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

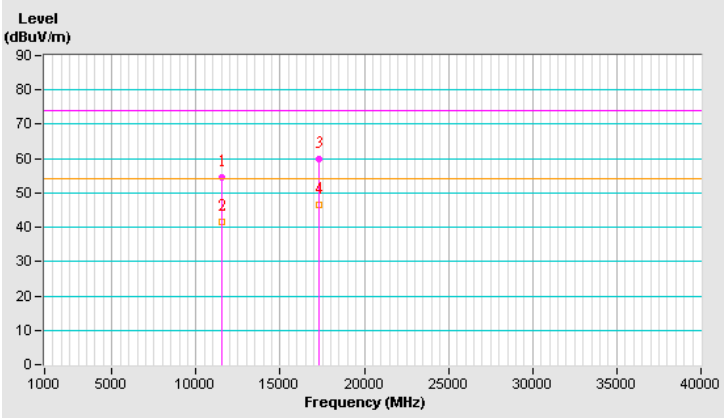


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11510.00	54.6 PK	74.0	-19.4	1.56 V	101	40.0	14.6
2	11510.00	41.5 AV	54.0	-12.5	1.56 V	101	26.9	14.6
3	#17265.00	59.7 PK	74.0	-14.3	1.60 V	108	39.5	20.2
4	#17265.00	46.5 AV	54.0	-7.5	1.60 V	108	26.3	20.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

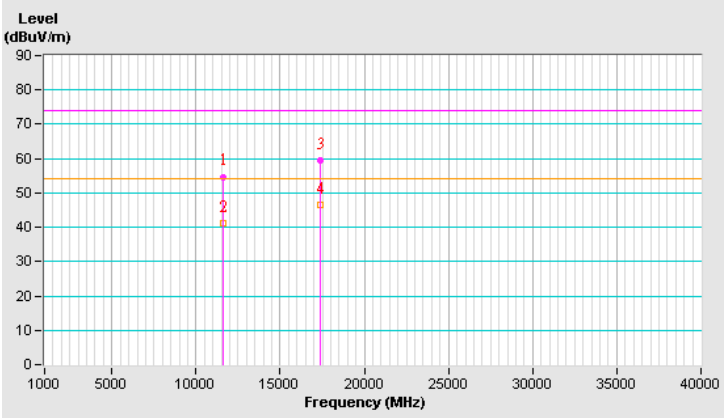


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11590.00	54.7 PK	74.0	-19.3	1.54 H	203	40.0	14.7
2	11590.00	41.3 AV	54.0	-12.7	1.54 H	203	26.6	14.7
3	#17385.00	59.4 PK	74.0	-14.6	1.48 H	181	38.6	20.8
4	#17385.00	46.4 AV	54.0	-7.6	1.48 H	181	25.6	20.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.

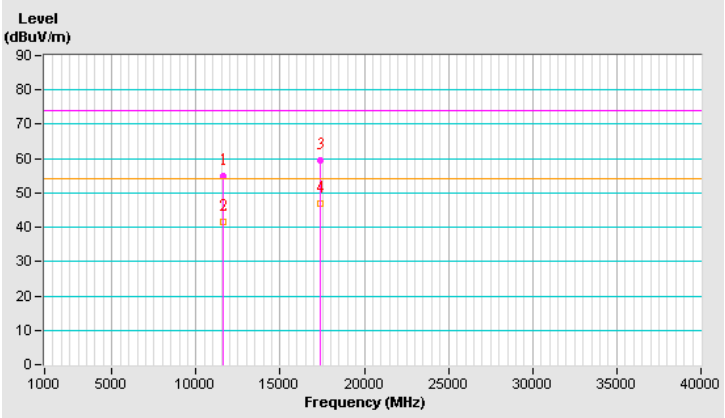


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	11590.00	54.8 PK	74.0	-19.2	1.58 V	98	40.1	14.7
2	11590.00	41.7 AV	54.0	-12.3	1.58 V	98	27.0	14.7
3	#17385.00	59.6 PK	74.0	-14.4	1.54 V	99	38.8	20.8
4	#17385.00	46.9 AV	54.0	-7.1	1.54 V	99	26.1	20.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



Radiated Band Edge and Fundamental Emissions

CDD Mode

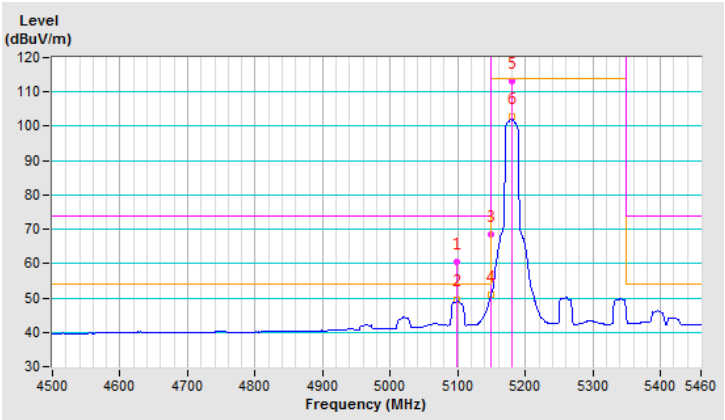
802.11ac (20MHz) 1S2T CDD Nss1 MCS0

CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5098.00	60.6 PK	74.0	-13.4	1.74 H	75	57.8	2.8
2	5098.00	49.6 AV	54.0	-4.4	1.74 H	75	46.8	2.8
3	5150.00	68.5 PK	74.0	-5.5	1.74 H	75	65.5	3.0
4	5150.00	50.8 AV	54.0	-3.2	1.74 H	75	47.8	3.0
5	*5180.00	113.0 PK			1.74 H	75	109.9	3.1
6	*5180.00	102.8 AV			1.74 H	75	99.7	3.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

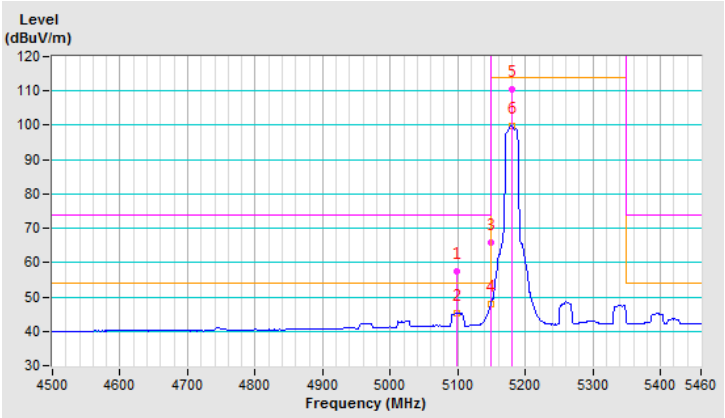


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5098.00	57.4 PK	74.0	-16.6	2.37 V	173	54.6	2.8
2	5098.00	45.4 AV	54.0	-8.6	2.37 V	173	42.6	2.8
3	5150.00	65.8 PK	74.0	-8.2	2.37 V	173	62.8	3.0
4	5150.00	48.0 AV	54.0	-6.0	2.37 V	173	45.0	3.0
5	*5180.00	110.4 PK			2.37 V	173	107.3	3.1
6	*5180.00	99.9 AV			2.37 V	173	96.8	3.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

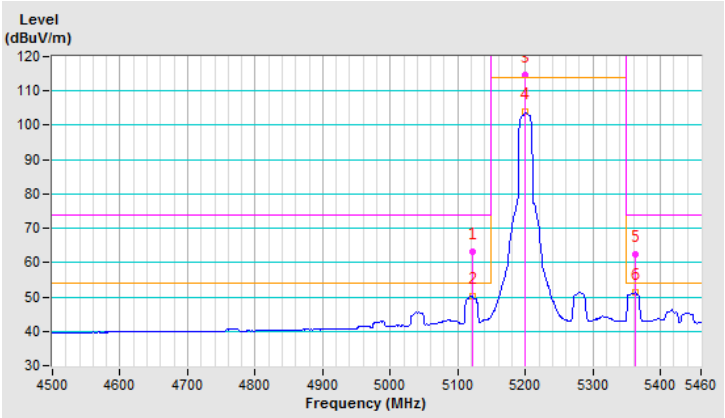


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5121.00	63.2 PK	74.0	-10.8	1.74 H	75	60.3	2.9
2	5121.00	50.3 AV	54.0	-3.7	1.74 H	75	47.4	2.9
3	*5200.00	114.5 PK			1.74 H	75	111.4	3.1
4	*5200.00	104.1 AV			1.74 H	75	101.0	3.1
5	5362.00	62.5 PK	74.0	-11.5	1.74 H	75	59.0	3.5
6	**5362.00**	**51.4 AV**	**54.0**	**-2.6**	**1.74 H**	**75**	**47.9**	**3.5**

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

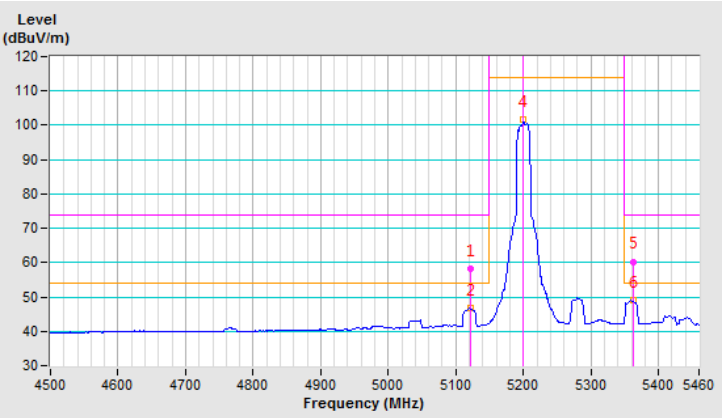


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5121.00	58.2 PK	74.0	-15.8	2.10 V	173	55.3	2.9
2	5121.00	46.6 AV	54.0	-7.4	2.10 V	173	43.7	2.9
3	*5200.00	122.2 PK			2.10 V	173	119.1	3.1
4	*5200.00	101.6 AV			2.10 V	173	98.5	3.1
5	5362.00	60.3 PK	74.0	-13.7	2.10 V	173	56.8	3.5
6	5362.00	48.9 AV	54.0	-5.1	2.10 V	173	45.4	3.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

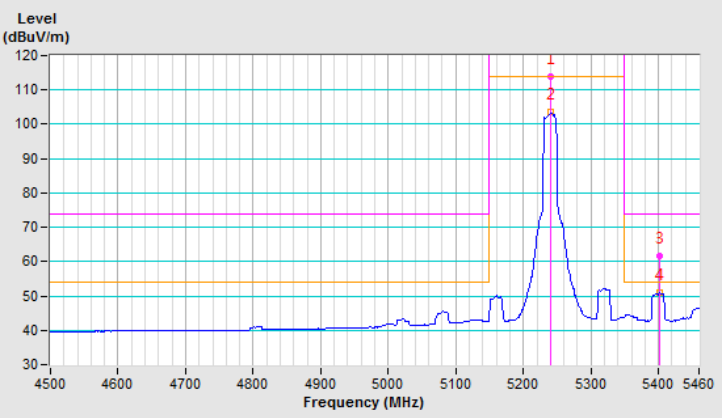


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.8 PK			1.74 H	86	110.6	3.2
2	*5240.00	103.6 AV			1.74 H	86	100.4	3.2
3	5402.00	61.5 PK	74.0	-12.5	1.74 H	86	57.8	3.7
4	5402.00	51.1 AV	54.0	-2.9	1.74 H	86	47.4	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

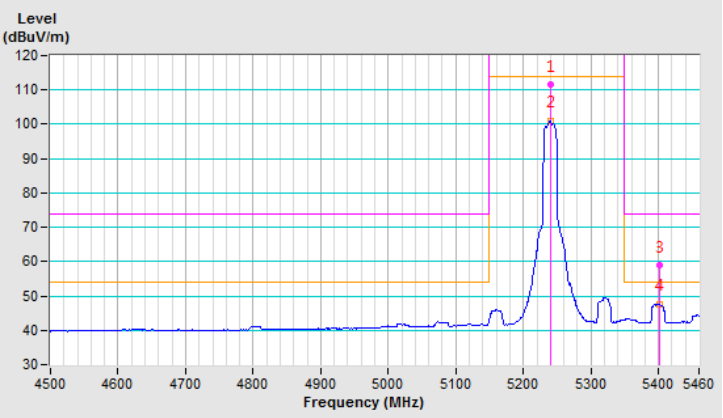


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.6 PK			1.69 V	173	108.4	3.2
2	*5240.00	101.1 AV			1.69 V	173	97.9	3.2
3	5402.00	58.8 PK	74.0	-15.2	1.69 V	173	55.1	3.7
4	5402.00	47.7 AV	54.0	-6.3	1.69 V	173	44.0	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

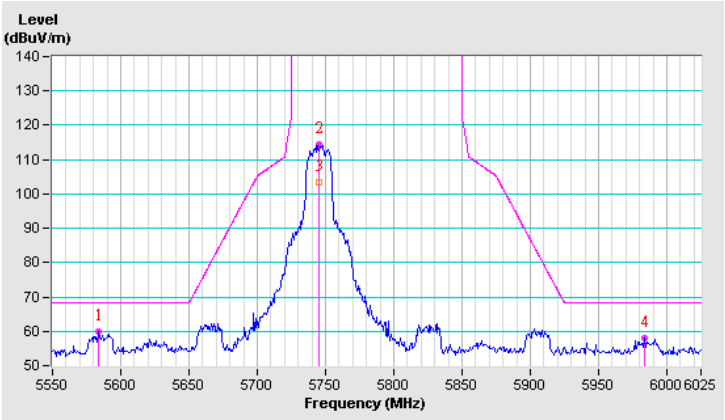


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5583.73	60.0 PK	68.2	-8.2	2.12 H	229	56.1	3.9
2	*5745.00	114.4 PK			2.12 H	229	110.2	4.2
3	*5745.00	103.3 AV			2.12 H	229	99.1	4.2
4	#5983.20	58.0 PK	68.2	-10.2	2.12 H	229	53.5	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

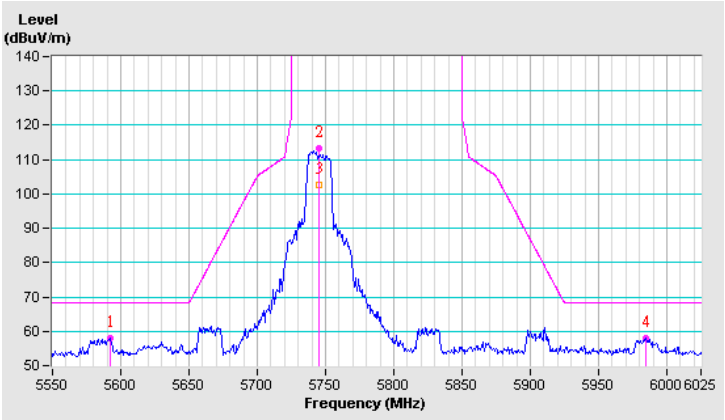


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5592.27	57.9 PK	68.2	-10.3	1.67 V	181	54.0	3.9
2	*5745.00	113.4 PK			1.67 V	181	109.2	4.2
3	*5745.00	102.5 AV			1.67 V	181	98.3	4.2
4	#5984.62	57.9 PK	68.2	-10.3	1.67 V	181	53.4	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

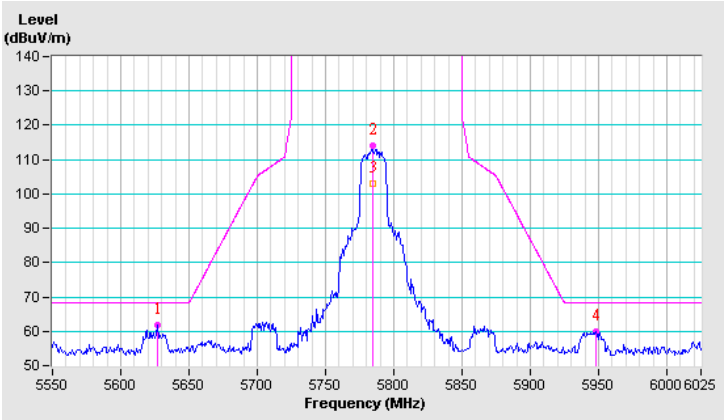


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5626.48	61.9 PK	68.2	-6.3	2.08 H	227	57.9	4.0
2	*5785.00	114.0 PK			2.08 H	227	109.9	4.1
3	*5785.00	103.0 AV			2.08 H	227	98.9	4.1
4	#5948.52	60.0 PK	68.2	-8.2	2.08 H	227	55.6	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

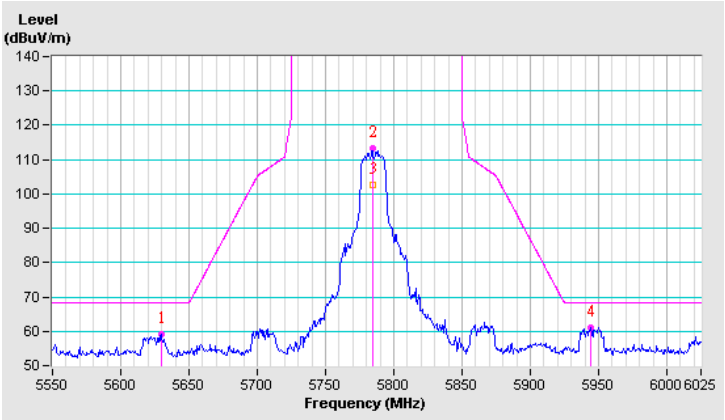


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5629.80	59.1 PK	68.2	-9.1	1.67 V	196	55.1	4.0
2	*5785.00	113.4 PK			1.67 V	196	109.3	4.1
3	*5785.00	102.5 AV			1.67 V	196	98.4	4.1
4	#5944.25	61.1 PK	68.2	-7.1	1.67 V	196	56.7	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

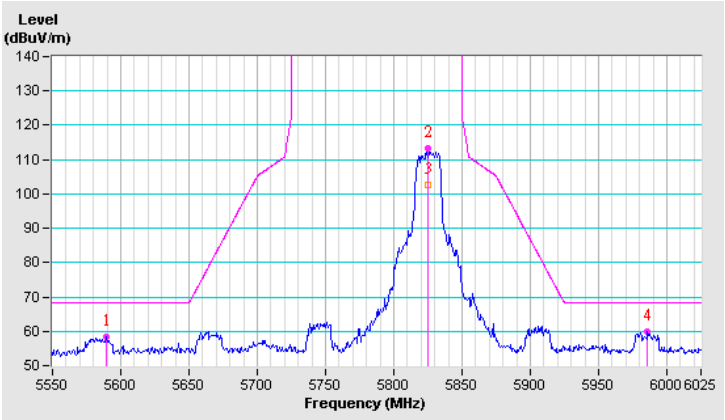


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5589.43	58.4 PK	68.2	-9.8	2.08 H	230	54.5	3.9
2	*5825.00	113.3 PK			2.08 H	230	109.1	4.2
3	*5825.00	102.5 AV			2.08 H	230	98.3	4.2
4	#5986.05	59.8 PK	68.2	-8.4	2.08 H	230	55.3	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

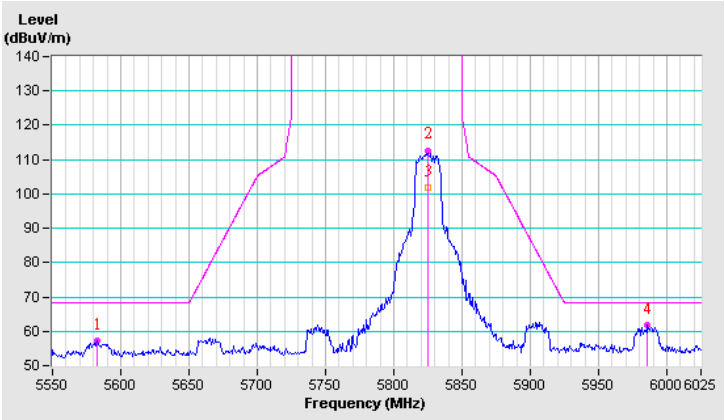


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5582.30	57.3 PK	68.2	-10.9	1.67 V	196	53.4	3.9
2	*5825.00	112.7 PK			1.67 V	196	108.5	4.2
3	*5825.00	101.8 AV			1.67 V	196	97.6	4.2
4	#5986.05	61.8 PK	68.2	-6.4	1.67 V	196	57.3	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



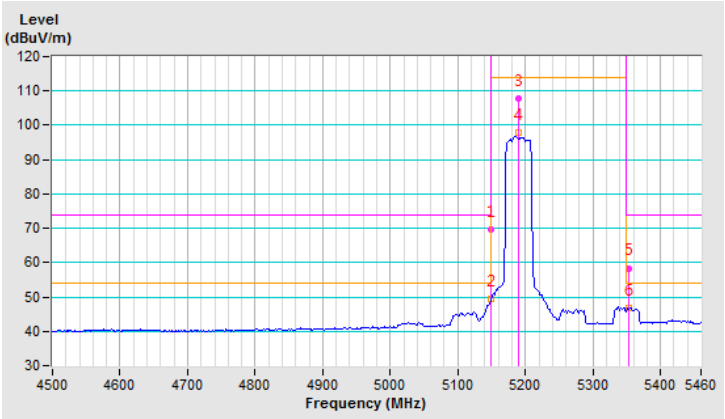
802.11ac (40MHz) 1S2T CDD Nss1 MCS0

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5150.00	69.6 PK	74.0	-4.4	1.88 H	76	66.6	3.0
2	5150.00	49.5 AV	54.0	-4.5	1.88 H	76	46.5	3.0
3	*5190.00	107.8 PK			1.88 H	76	104.7	3.1
4	*5190.00	98.0 AV			1.88 H	76	94.9	3.1
5	5354.00	58.4 PK	74.0	-15.6	1.88 H	76	54.9	3.5
6	5354.00	46.6 AV	54.0	-7.4	1.88 H	76	43.1	3.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

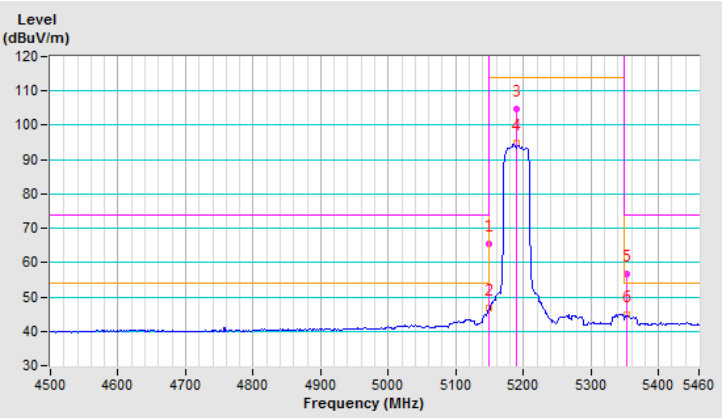


CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.6 PK	74.0	-8.4	2.36 V	173	62.6	3.0
2	5150.00	46.7 AV	54.0	-7.3	2.36 V	173	43.7	3.0
3	*5190.00	104.8 PK			2.36 V	173	101.7	3.1
4	*5190.00	94.7 AV			2.36 V	173	91.6	3.1
5	5354.00	56.8 PK	74.0	-17.2	2.36 V	173	53.3	3.5
6	5354.00	44.9 AV	54.0	-9.1	2.36 V	173	41.4	3.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

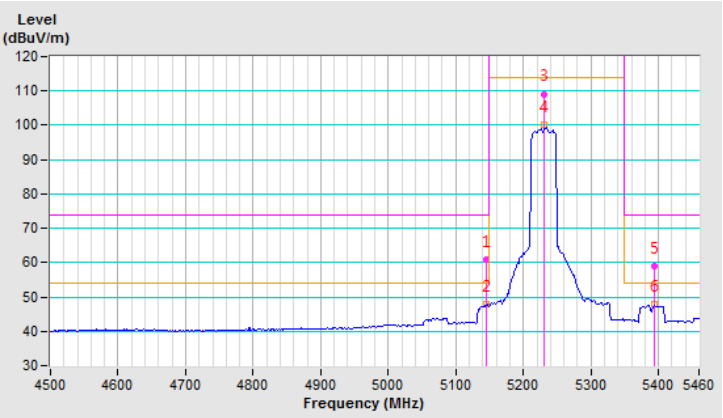


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5146.00	60.8 PK	74.0	-13.2	1.88 H	77	57.8	3.0
2	5146.00	47.9 AV	54.0	-6.1	1.88 H	77	44.9	3.0
3	*5230.00	109.1 PK			1.88 H	77	105.9	3.2
4	*5230.00	100.1 AV			1.88 H	77	96.9	3.2
5	5394.00	59.1 PK	74.0	-14.9	1.88 H	77	55.4	3.7
6	5394.00	47.8 AV	54.0	-6.2	1.88 H	77	44.1	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

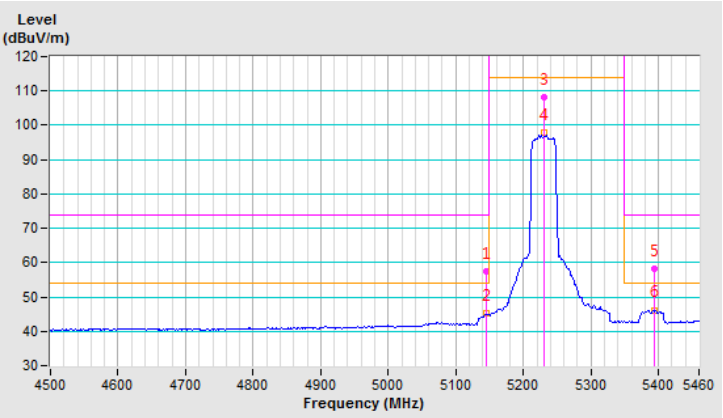


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5146.00	57.5 PK	74.0	-16.5	2.08 V	173	54.5	3.0
2	5146.00	45.2 AV	54.0	-8.8	2.08 V	173	42.2	3.0
3	*5230.00	108.0 PK			2.08 V	173	104.8	3.2
4	*5230.00	98.0 AV			2.08 V	173	94.8	3.2
5	5394.00	58.2 PK	74.0	-15.8	2.08 V	173	54.5	3.7
6	5394.00	46.2 AV	54.0	-7.8	2.08 V	173	42.5	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

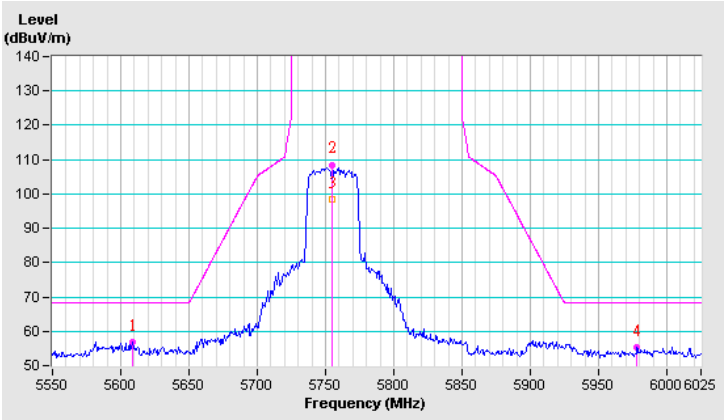


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5608.90	56.8 PK	68.2	-11.4	2.12 H	227	52.9	3.9
2	*5755.00	108.5 PK			2.12 H	227	104.3	4.2
3	*5755.00	98.4 AV			2.12 H	227	94.2	4.2
4	#5977.98	55.3 PK	68.2	-12.9	2.12 H	227	50.8	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

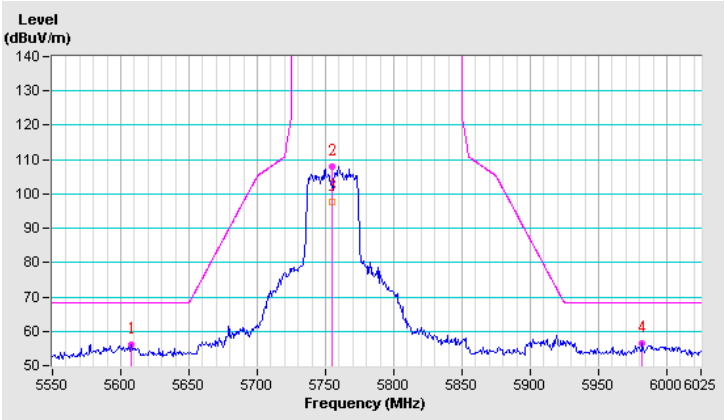


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5607.48	56.2 PK	68.2	-12.0	1.67 V	188	52.3	3.9
2	*5755.00	107.8 PK			1.67 V	188	103.6	4.2
3	*5755.00	97.7 AV			1.67 V	188	93.5	4.2
4	#5981.77	56.5 PK	68.2	-11.7	1.67 V	188	52.0	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

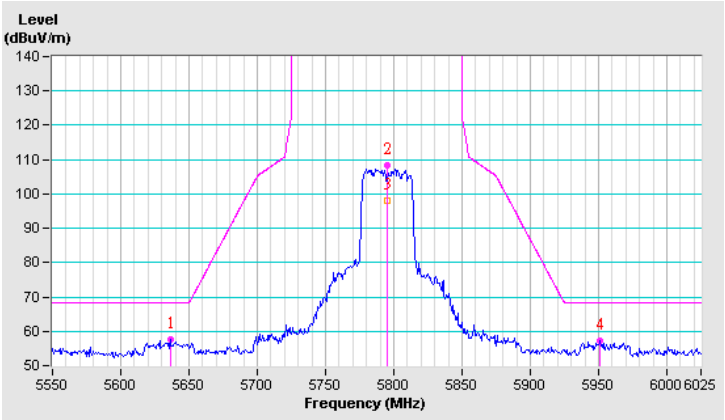


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5636.45	57.7 PK	68.2	-10.5	2.10 H	228	53.7	4.0
2	*5795.00	108.3 PK			2.10 H	228	104.2	4.1
3	*5795.00	98.1 AV			2.10 H	228	94.0	4.1
4	#5951.37	57.3 PK	68.2	-10.9	2.10 H	228	52.9	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

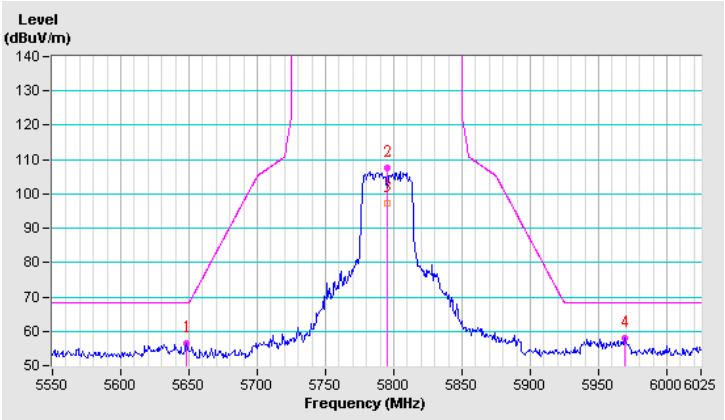


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.85	56.4 PK	68.2	-11.8	1.67 V	197	52.4	4.0
2	*5795.00	107.5 PK			1.67 V	197	103.4	4.1
3	*5795.00	97.4 AV			1.67 V	197	93.3	4.1
4	#5968.95	58.0 PK	68.2	-10.2	1.67 V	197	53.5	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



TxBF Mode

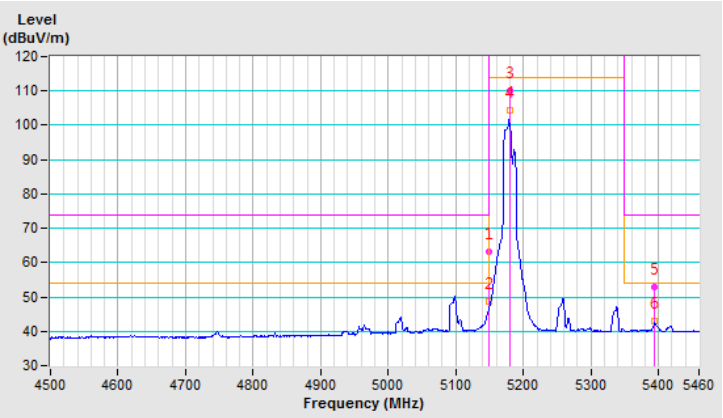
802.11ac (20MHz) 1S2T TxBF Nss1 MCS0

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.2 PK	74.0	-10.8	1.13 H	176	60.2	3.0
2	5150.00	48.6 AV	54.0	-5.4	1.13 H	176	45.6	3.0
3	*5180.00	110.2 PK			1.13 H	176	107.1	3.1
4	*5180.00	104.2 AV			1.13 H	176	101.1	3.1
5	5394.00	52.7 PK	74.0	-21.3	1.13 H	176	49.0	3.7
6	5394.00	42.8 AV	54.0	-11.2	1.13 H	176	39.1	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

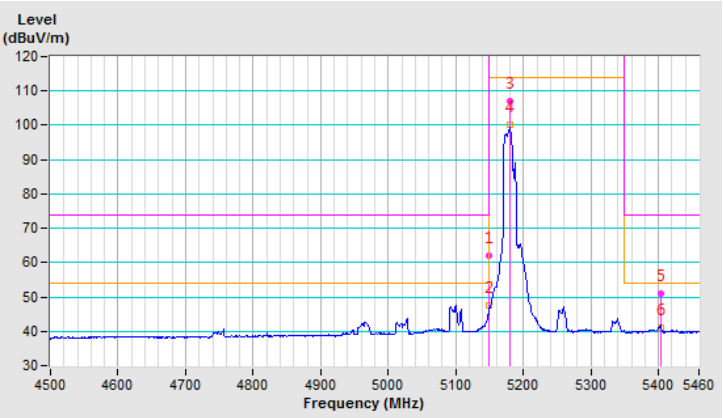


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	1.96 V	244	58.9	3.0
2	5150.00	47.4 AV	54.0	-6.6	1.96 V	244	44.4	3.0
3	*5180.00	107.1 PK			1.96 V	244	104.0	3.1
4	*5180.00	100.3 AV			1.96 V	244	97.2	3.1
5	5403.00	51.1 PK	74.0	-22.9	1.96 V	244	47.4	3.7
6	5403.00	41.1 AV	54.0	-12.9	1.96 V	244	37.4	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

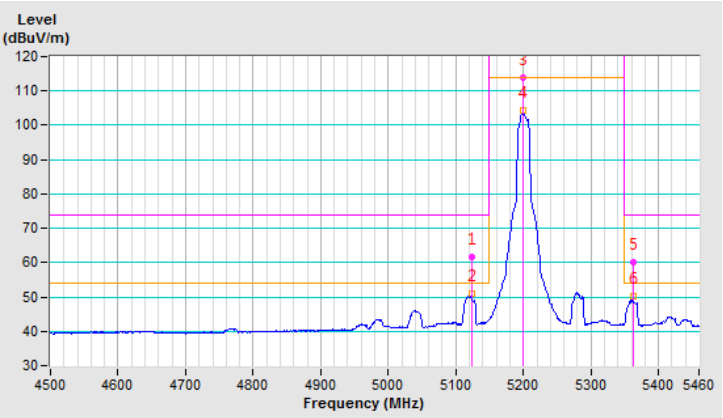


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5123.00	61.8 PK	74.0	-12.2	1.03 H	148	58.9	2.9
2	5123.00	51.1 AV	54.0	-2.9	1.03 H	148	48.2	2.9
3	*5200.00	114.0 PK			1.03 H	148	110.9	3.1
4	*5200.00	104.2 AV			1.03 H	148	101.1	3.1
5	5362.00	60.1 PK	74.0	-13.9	1.03 H	148	56.6	3.5
6	5362.00	50.2 AV	54.0	-3.8	1.03 H	148	46.7	3.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

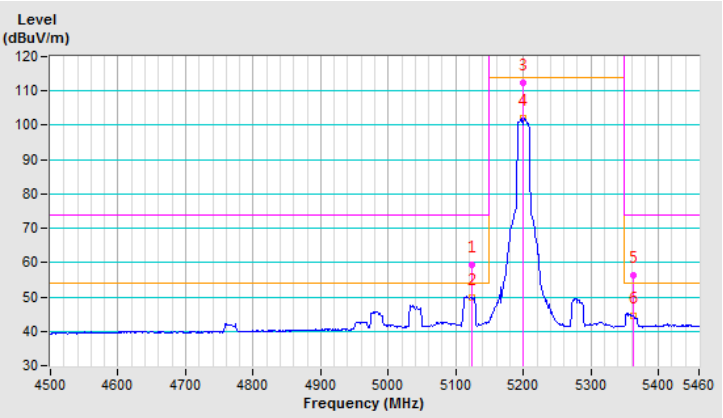


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5123.00	59.2 PK	74.0	-14.8	2.14 V	217	56.3	2.9
2	5123.00	49.9 AV	54.0	-4.1	2.14 V	217	47.0	2.9
3	*5200.00	112.5 PK			2.14 V	217	109.4	3.1
4	*5200.00	102.1 AV			2.14 V	217	99.0	3.1
5	5362.00	56.2 PK	74.0	-17.8	2.14 V	217	52.7	3.5
6	5362.00	44.6 AV	54.0	-9.4	2.14 V	217	41.1	3.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

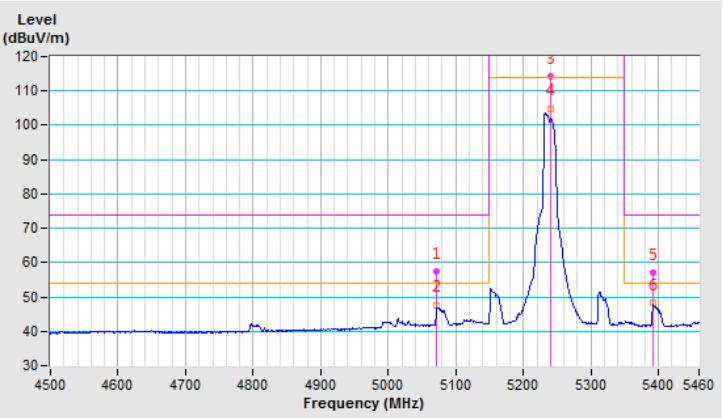


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5072.00	57.3 PK	74.0	-16.7	1.04 H	142	54.5	2.8
2	5072.00	47.7 AV	54.0	-6.3	1.04 H	142	44.9	2.8
3	*5240.00	114.1 PK			1.04 H	142	110.9	3.2
4	*5240.00	104.9 AV			1.04 H	142	101.7	3.2
5	5392.00	57.2 PK	74.0	-16.8	1.04 H	142	53.5	3.7
6	5392.00	48.2 AV	54.0	-5.8	1.04 H	142	44.5	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

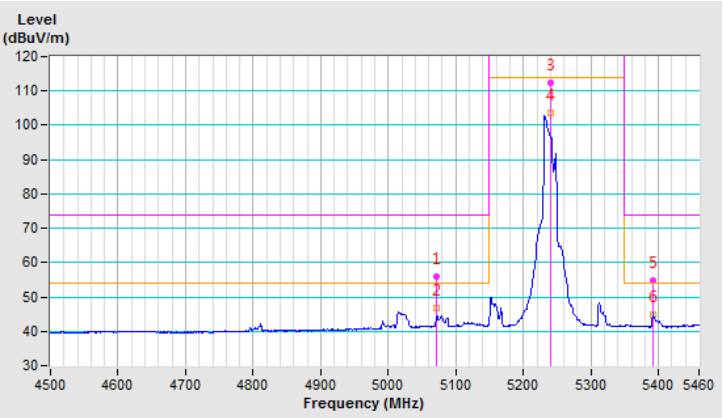


CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5072.00	55.9 PK	74.0	-18.1	2.17 V	215	53.1	2.8
2	5072.00	46.7 AV	54.0	-7.3	2.17 V	215	43.9	2.8
3	*5240.00	112.3 PK			2.17 V	22	109.1	3.2
4	*5240.00	103.5 AV			2.17 V	22	100.3	3.2
5	5392.00	54.8 PK	74.0	-19.2	2.17 V	215	51.1	3.7
6	5392.00	44.9 AV	54.0	-9.1	2.17 V	215	41.2	3.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

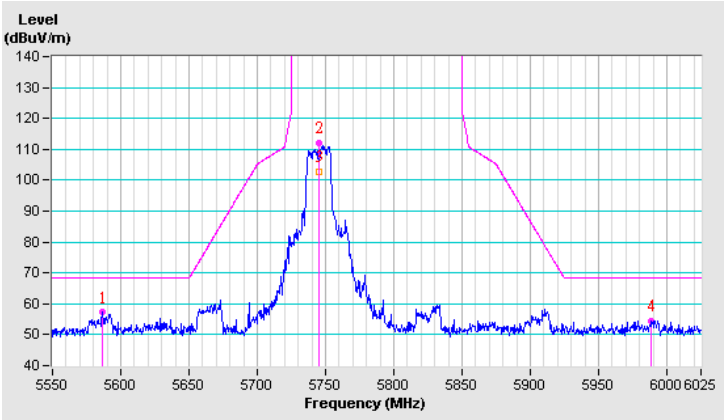


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5586.59	57.2 PK	68.2	-11.0	1.61 H	335	53.3	3.9
2	*5745.00	112.1 PK			1.61 H	335	107.9	4.2
3	*5745.00	102.9 AV			1.61 H	335	98.7	4.2
4	#5988.86	54.6 PK	68.2	-13.6	1.61 H	335	50.1	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

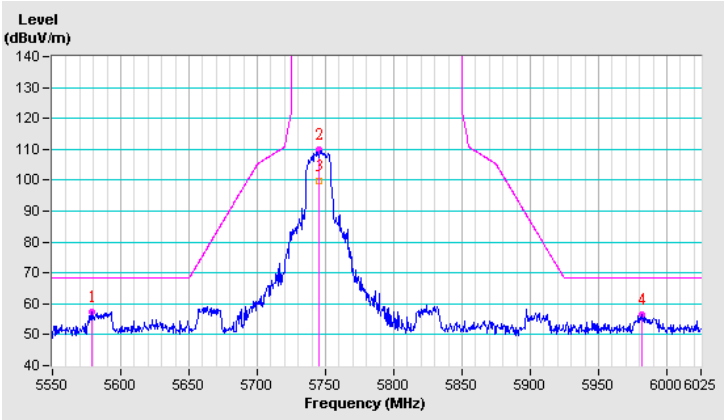


CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5578.46	57.4 PK	68.2	-10.8	1.93 V	338	53.5	3.9
2	*5745.00	109.8 PK			2.82 V	186	105.6	4.2
3	*5745.00	99.9 AV			2.82 V	186	95.7	4.2
4	#5981.25	56.6 PK	68.2	-11.6	1.93 V	338	52.1	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

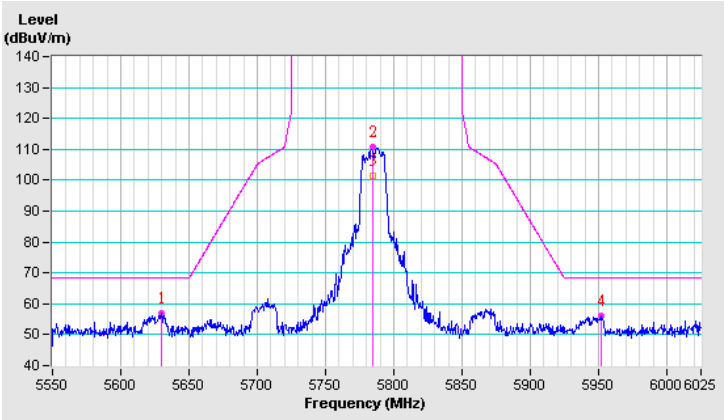


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5629.87	56.9 PK	68.2	-11.3	1.73 H	337	52.9	4.0
2	*5785.00	110.9 PK			1.73 H	337	106.8	4.1
3	*5785.00	101.5 AV			1.73 H	337	97.4	4.1
4	#5952.15	56.0 PK	68.2	-12.2	1.73 H	337	51.6	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

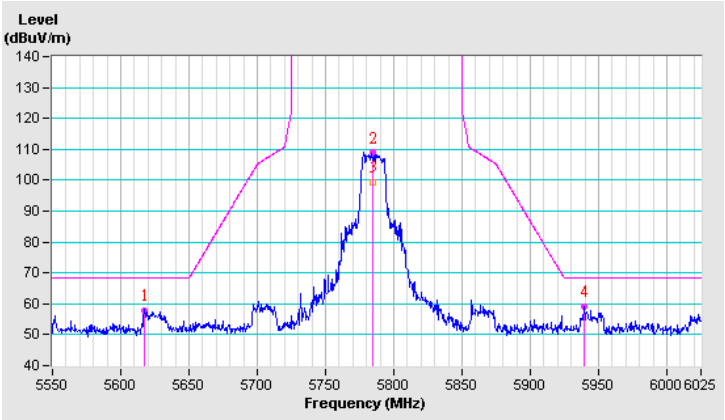


CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5617.45	58.0 PK	68.2	-10.2	1.72 V	340	54.1	3.9
2	*5785.00	108.9 PK			1.72 V	340	104.8	4.1
3	*5785.00	99.3 AV			1.72 V	340	95.2	4.1
4	#5939.70	59.1 PK	68.2	-9.1	1.72 V	340	54.7	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

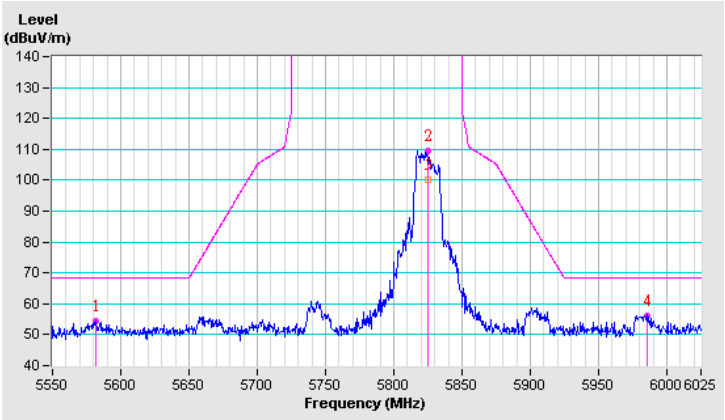


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5581.84	54.3 PK	68.2	-13.9	1.70 H	336	50.4	3.9
2	*5825.00	109.6 PK			1.70 H	336	105.4	4.2
3	*5825.00	100.3 AV			1.70 H	336	96.1	4.2
4	#5985.66	56.3 PK	68.2	-11.9	1.70 H	336	51.8	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

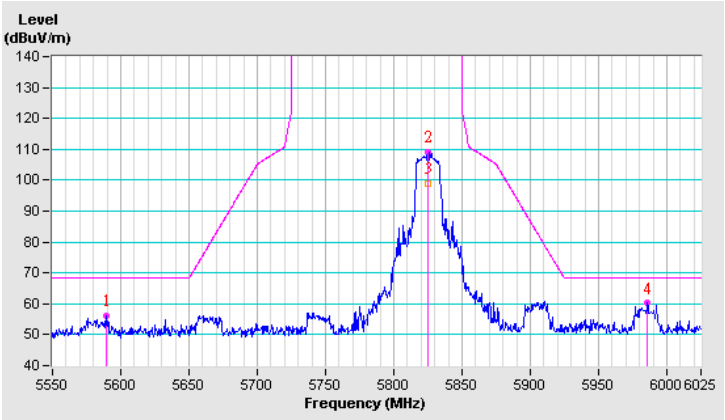


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5589.84	56.2 PK	68.2	-12.0	1.76 V	314	52.3	3.9
2	*5825.00	109.2 PK			1.76 V	314	105.0	4.2
3	*5825.00	99.1 AV			1.76 V	314	94.9	4.2
4	#5985.77	60.2 PK	68.2	-8.0	1.76 V	314	55.7	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



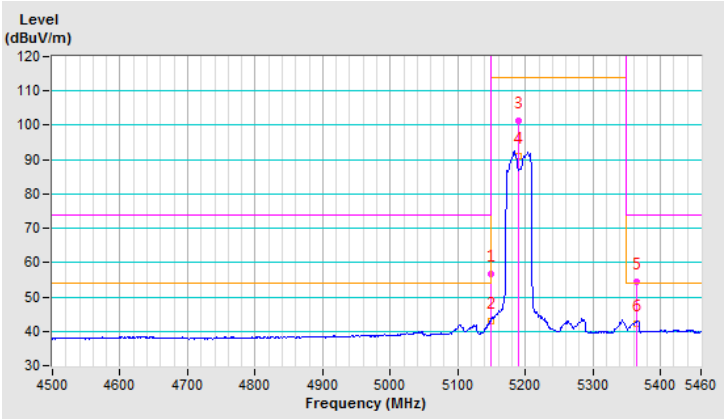
802.11ac (40MHz) 1S2T TxBF Nss1 MCS0

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5150.00	56.8 PK	74.0	-17.2	1.76 H	213	53.8	3.0
2	5150.00	42.8 AV	54.0	-11.2	1.76 H	213	39.8	3.0
3	*5190.00	101.4 PK			1.00 H	213	98.3	3.1
4	*5190.00	91.1 AV			1.00 H	213	88.0	3.1
5	5364.00	54.3 PK	74.0	-19.7	1.74 H	219	50.8	3.5
6	5364.00	42.1 AV	54.0	-11.9	1.74 H	219	38.6	3.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

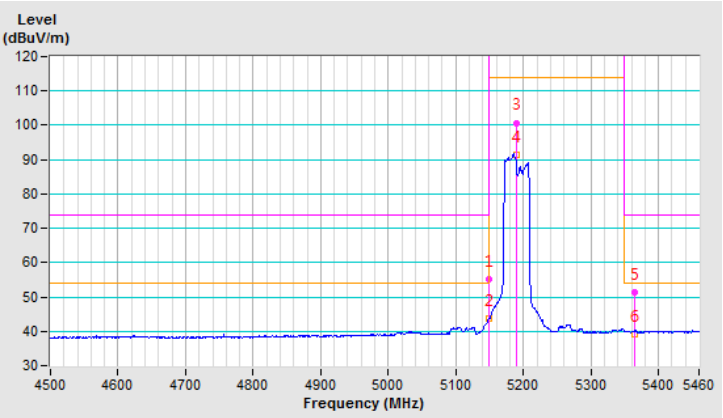


CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	1.84 V	244	52.3	3.0
2	5150.00	43.6 AV	54.0	-10.4	1.84 V	244	40.6	3.0
3	*5190.00	100.7 PK			1.84 V	244	97.6	3.1
4	*5190.00	91.5 AV			1.84 V	244	88.4	3.1
5	5364.00	51.5 PK	74.0	-22.5	1.84 V	244	48.0	3.5
6	5364.00	39.2 AV	54.0	-14.8	1.84 V	244	35.7	3.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

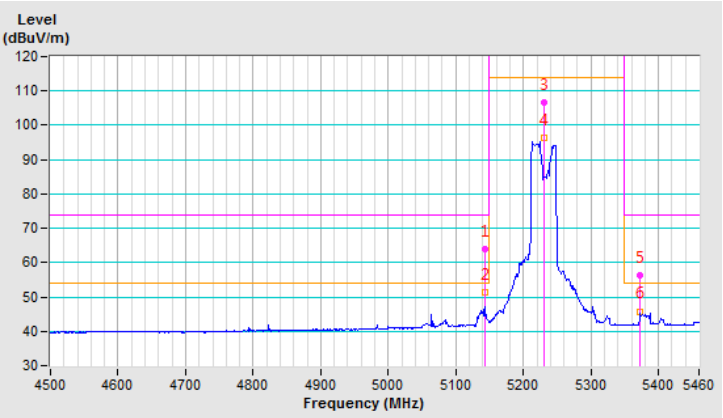


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5143.00	63.9 PK	74.0	-10.1	1.99 H	252	60.9	3.0
2	**5143.00**	**51.2 AV**	**54.0**	**-2.8**	**1.99 H**	**252**	**48.2**	**3.0**
3	*5230.00	106.5 PK			1.99 H	252	103.3	3.2
4	*5230.00	96.4 AV			1.99 H	252	93.2	3.2
5	5373.00	56.4 PK	74.0	-17.6	1.99 H	252	52.8	3.6
6	5373.00	45.8 AV	54.0	-8.2	1.99 H	252	42.2	3.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

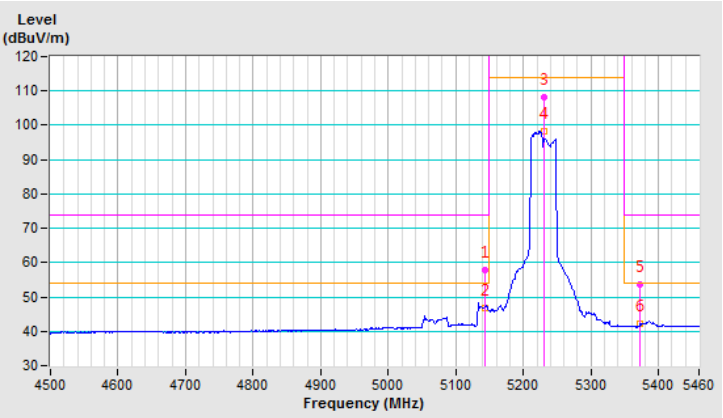


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5143.00	57.9 PK	74.0	-16.1	2.06 V	244	54.9	3.0
2	5143.00	46.9 AV	54.0	-7.1	2.06 V	244	43.9	3.0
3	*5230.00	108.3 PK			2.06 V	244	105.1	3.2
4	*5230.00	98.2 AV			2.06 V	244	95.0	3.2
5	5373.00	53.5 PK	74.0	-20.5	2.06 V	244	49.9	3.6
6	5373.00	42.2 AV	54.0	-11.8	2.06 V	244	38.6	3.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

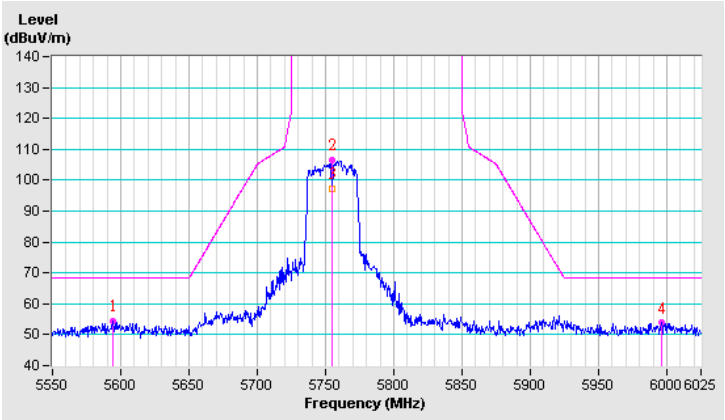


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5594.51	54.3 PK	68.2	-13.9	1.73 H	335	50.4	3.9
2	*5755.00	106.5 PK			1.73 H	335	102.3	4.2
3	*5755.00	97.2 AV			1.73 H	335	93.0	4.2
4	#5996.00	53.8 PK	68.2	-14.4	1.73 H	335	49.3	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

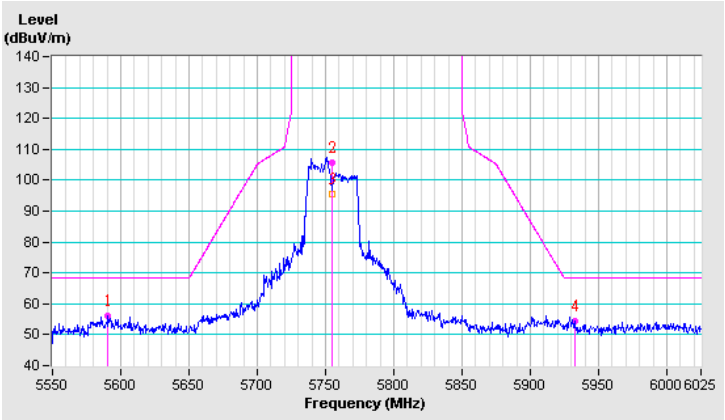


CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5590.43	56.1 PK	68.2	-12.1	1.39 V	339	52.2	3.9
2	*5755.00	105.7 PK			1.39 V	339	101.5	4.2
3	*5755.00	95.7 AV			1.39 V	339	91.5	4.2
4	#5932.42	54.3 PK	68.2	-13.9	1.39 V	339	49.9	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

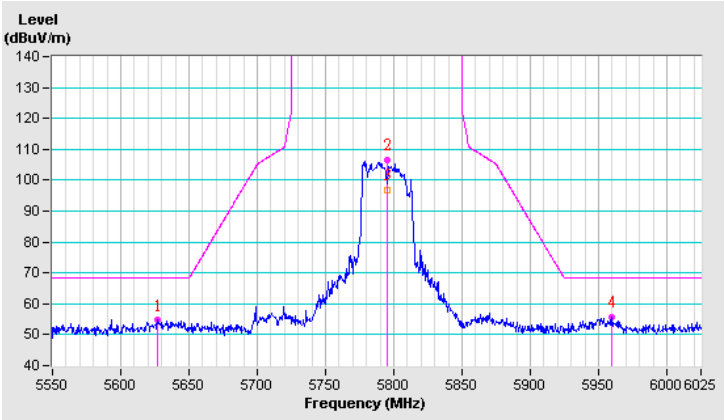


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5626.81	54.7 PK	68.2	-13.5	1.71 H	334	50.7	4.0
2	*5795.00	106.7 PK			1.71 H	334	102.6	4.1
3	*5795.00	96.8 AV			1.71 H	334	92.7	4.1
4	#5960.08	55.6 PK	68.2	-12.6	1.71 H	334	51.1	4.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

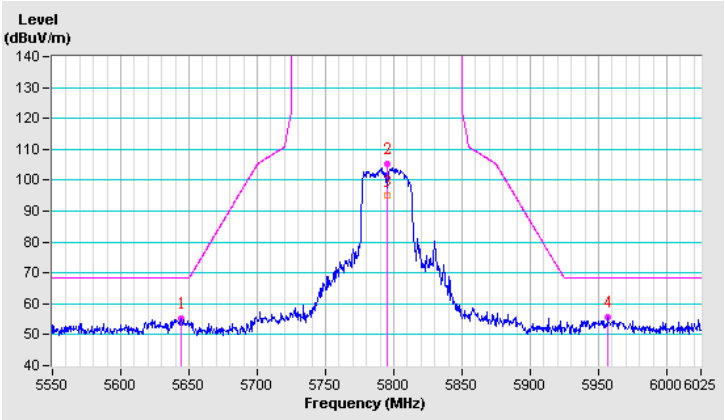


CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5644.69	55.4 PK	68.2	-12.8	1.29 V	342	51.4	4.0
2	*5795.00	105.3 PK			1.29 V	342	101.2	4.1
3	*5795.00	94.9 AV			1.29 V	342	90.8	4.1
4	#5956.72	55.8 PK	68.2	-12.4	1.29 V	342	51.4	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



4.7 Frequency Stability Measurement

4.7.1 Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or ±20ppm (IEEE 802.11n specification).

4.7.2 Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer and receiver.

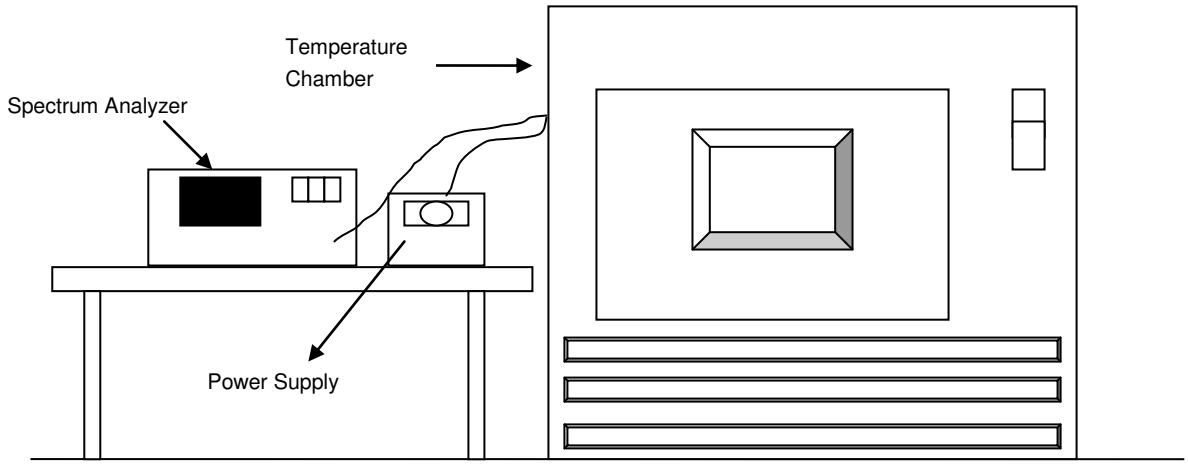
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

4.7.3 Test Procedure

1 The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2 The EUT was programmed to be in continuously un-modulation transmitting mode.
3 Set the spectrum analyzer span to view the entire un-modulation emissions bandwidth.
4 Turn the EUT on and couple its output to a spectrum analyzer.
5 Turn the EUT off and set the chamber to the highest temperature specified.
6 Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7 Extreme temperature rule is -30°C~50°C.
8 Repeat step 4 and 5 with the temperature chamber set to the lowest temperature.
9 The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.7.4 Test Setup Layout

Setup



4.7.5 Test Deviation

There are no deviations with the original standard.

4.7.6 EUT Operating Conditions

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.7.7 Test Results

Temperature	22°C	Humidity	60%
Test Engineer	Anderson Chen		

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5179.9741	PASS	5179.9766	PASS	5179.9733	PASS	5179.9737	PASS
40	120	5180.004	PASS	5180.0058	PASS	5180.0071	PASS	5180.0035	PASS
30	120	5179.9885	PASS	5179.9886	PASS	5179.9896	PASS	5179.9887	PASS
20	120	5179.9918	PASS	5179.9944	PASS	5179.994	PASS	5179.9907	PASS
10	120	5180.0022	PASS	5180.0039	PASS	5180.001	PASS	5180.0017	PASS
0	120	5179.9931	PASS	5179.9938	PASS	5179.9952	PASS	5179.9956	PASS
-10	120	5180.0191	PASS	5180.0194	PASS	5180.017	PASS	5180.0196	PASS
-20	120	5179.9817	PASS	5179.9804	PASS	5179.9797	PASS	5179.9823	PASS
-30	120	5180.0158	PASS	5180.0133	PASS	5180.0121	PASS	5180.0135	PASS
Max. Deviation (ppm)		5.00	PASS	4.52	PASS	5.15	PASS	5.08	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5179.9922	PASS	5179.9947	PASS	5179.9934	PASS	5179.9902	PASS
	120	5179.9918	PASS	5179.9944	PASS	5179.994	PASS	5179.9907	PASS
	102	5179.9909	PASS	5179.9944	PASS	5179.9942	PASS	5179.9905	PASS
Max. Deviation (ppm)		1.76	PASS	1.08	PASS	1.27	PASS	1.89	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5180.0221	PASS	5180.0233	PASS	5180.0188	PASS	5180.0228	PASS
40	120	5180.0233	PASS	5180.0235	PASS	5180.0243	PASS	5180.0274	PASS
30	120	5179.9826	PASS	5179.9781	PASS	5179.9828	PASS	5179.9809	PASS
20	120	5179.9751	PASS	5179.9734	PASS	5179.9755	PASS	5179.9749	PASS
10	120	5179.9825	PASS	5179.9799	PASS	5179.9794	PASS	5179.9834	PASS
0	120	5180.0227	PASS	5180.0254	PASS	5180.0207	PASS	5180.0236	PASS
-10	120	5180.0019	PASS	5180.0023	PASS	5180.0046	PASS	5180.0033	PASS
-20	120	5180.003	PASS	5180.0036	PASS	5180.0025	PASS	5180.001	PASS
-30	120	5179.9892	PASS	5179.99	PASS	5179.9895	PASS	5179.9939	PASS
Max. Deviation (ppm)		4.81	PASS	5.14	PASS	4.73	PASS	5.29	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5179.9753	PASS	5179.9743	PASS	5179.9764	PASS	5179.9739	PASS
	120	5179.9751	PASS	5179.9734	PASS	5179.9755	PASS	5179.9749	PASS
	102	5179.9747	PASS	5179.9735	PASS	5179.9752	PASS	5179.9742	PASS
Max. Deviation (ppm)		4.88	PASS	5.14	PASS	4.79	PASS	5.04	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5200 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5199.9864	PASS	5199.9852	PASS	5199.9862	PASS	5199.9866	PASS
40	120	5199.9774	PASS	5199.9788	PASS	5199.9819	PASS	5199.9793	PASS
30	120	5200.0209	PASS	5200.0191	PASS	5200.0177	PASS	5200.02	PASS
20	120	5199.9929	PASS	5199.992	PASS	5199.9918	PASS	5199.9955	PASS
10	120	5199.975	PASS	5199.9756	PASS	5199.9767	PASS	5199.9763	PASS
0	120	5200.0097	PASS	5200.0081	PASS	5200.0086	PASS	5200.0066	PASS
-10	120	5200.0053	PASS	5200.0051	PASS	5200.0073	PASS	5200.0051	PASS
-20	120	5199.9851	PASS	5199.9855	PASS	5199.9868	PASS	5199.986	PASS
-30	120	5199.9857	PASS	5199.9859	PASS	5199.9848	PASS	5199.9859	PASS
Max. Deviation (ppm)		4.81	PASS	4.69	PASS	4.48	PASS	4.56	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5200 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5199.9932	PASS	5199.9914	PASS	5199.9913	PASS	5199.9945	PASS
	120	5199.9929	PASS	5199.992	PASS	5199.9918	PASS	5199.9955	PASS
	102	5199.9927	PASS	5199.9923	PASS	5199.9916	PASS	5199.995	PASS
Max. Deviation (ppm)		1.40	PASS	1.65	PASS	1.67	PASS	1.06	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5200 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5199.9757	PASS	5199.9744	PASS	5199.9729	PASS	5199.9761	PASS
40	120	5200.0098	PASS	5200.0119	PASS	5200.0117	PASS	5200.0089	PASS
30	120	5199.982	PASS	5199.9815	PASS	5199.9852	PASS	5199.9846	PASS
20	120	5200.0076	PASS	5200.0083	PASS	5200.0074	PASS	5200.0084	PASS
10	120	5199.9789	PASS	5199.978	PASS	5199.9818	PASS	5199.9815	PASS
0	120	5200.0109	PASS	5200.013	PASS	5200.0085	PASS	5200.0113	PASS
-10	120	5199.9914	PASS	5199.9957	PASS	5199.9951	PASS	5199.9925	PASS
-20	120	5200.0238	PASS	5200.0227	PASS	5200.0208	PASS	5200.0229	PASS
-30	120	5200.0215	PASS	5200.0236	PASS	5200.0256	PASS	5200.0244	PASS
Max. Deviation (ppm)		4.67	PASS	4.92	PASS	5.21	PASS	4.69	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5200 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5200.0078	PASS	5200.0081	PASS	5200.0071	PASS	5200.0081	PASS
	120	5200.0076	PASS	5200.0083	PASS	5200.0074	PASS	5200.0084	PASS
	102	5200.0076	PASS	5200.008	PASS	5200.0064	PASS	5200.0077	PASS
Max. Deviation (ppm)		1.50	PASS	1.60	PASS	1.42	PASS	1.62	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5240 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5239.9911	PASS	5239.9897	PASS	5239.9929	PASS	5239.9914	PASS
40	120	5240.0149	PASS	5240.0167	PASS	5240.0174	PASS	5240.0191	PASS
30	120	5239.9836	PASS	5239.983	PASS	5239.981	PASS	5239.98	PASS
20	120	5239.9972	PASS	5239.9964	PASS	5240.0002	PASS	5239.999	PASS
10	120	5239.9927	PASS	5239.9883	PASS	5239.9908	PASS	5239.9884	PASS
0	120	5240.0197	PASS	5240.0172	PASS	5240.0192	PASS	5240.0152	PASS
-10	120	5240.0077	PASS	5240.0103	PASS	5240.0055	PASS	5240.0074	PASS
-20	120	5239.9801	PASS	5239.981	PASS	5239.9834	PASS	5239.9806	PASS
-30	120	5239.9993	PASS	5240.0026	PASS	5240	PASS	5240.001	PASS
Max. Deviation (ppm)		3.80	PASS	3.63	PASS	3.66	PASS	3.82	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5240 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5239.9982	PASS	5239.9968	PASS	5239.9995	PASS	5240	PASS
	120	5239.9972	PASS	5239.9964	PASS	5240.0002	PASS	5239.999	PASS
	102	5239.9979	PASS	5239.9972	PASS	5239.9992	PASS	5239.9993	PASS
Max. Deviation (ppm)		0.53	PASS	0.69	PASS	0.15	PASS	0.19	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5240 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5240.0217	PASS	5240.0205	PASS	5240.0232	PASS	5240.0241	PASS
40	120	5239.9935	PASS	5239.9947	PASS	5239.9945	PASS	5239.9927	PASS
30	120	5240.0105	PASS	5240.0095	PASS	5240.0082	PASS	5240.0076	PASS
20	120	5240.0213	PASS	5240.0247	PASS	5240.02	PASS	5240.0227	PASS
10	120	5240.0134	PASS	5240.0109	PASS	5240.0101	PASS	5240.0123	PASS
0	120	5240.012	PASS	5240.0107	PASS	5240.0121	PASS	5240.0123	PASS
-10	120	5240.0076	PASS	5240.011	PASS	5240.0072	PASS	5240.0086	PASS
-20	120	5239.9794	PASS	5239.9819	PASS	5239.9822	PASS	5239.9833	PASS
-30	120	5239.9894	PASS	5239.991	PASS	5239.9916	PASS	5239.9903	PASS
Max. Deviation (ppm)		4.14	PASS	4.71	PASS	4.43	PASS	4.60	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5240 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5240.0204	PASS	5240.0248	PASS	5240.0205	PASS	5240.0235	PASS
	120	5240.0213	PASS	5240.0247	PASS	5240.02	PASS	5240.0227	PASS
	102	5240.0214	PASS	5240.0249	PASS	5240.0194	PASS	5240.0231	PASS
Max. Deviation (ppm)		4.08	PASS	4.75	PASS	3.91	PASS	4.48	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5745 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5744.9893	PASS	5744.9922	PASS	5744.9908	PASS	5744.993	PASS
40	120	5744.995	PASS	5744.9909	PASS	5744.9938	PASS	5744.9944	PASS
30	120	5744.998	PASS	5745.0007	PASS	5745.0001	PASS	5744.9962	PASS
20	120	5744.9888	PASS	5744.9901	PASS	5744.9925	PASS	5744.9904	PASS
10	120	5744.9922	PASS	5744.9902	PASS	5744.9889	PASS	5744.9885	PASS
0	120	5744.9947	PASS	5744.9936	PASS	5744.9949	PASS	5744.9946	PASS
-10	120	5745.0185	PASS	5745.0196	PASS	5745.0213	PASS	5745.018	PASS
-20	120	5744.9856	PASS	5744.9904	PASS	5744.985	PASS	5744.9871	PASS
-30	120	5744.9774	PASS	5744.9804	PASS	5744.9819	PASS	5744.9775	PASS
Max. Deviation (ppm)		3.93	PASS	3.41	PASS	3.71	PASS	3.92	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5745 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5744.988	PASS	5744.9898	PASS	5744.9935	PASS	5744.9895	PASS
	120	5744.9888	PASS	5744.9901	PASS	5744.9925	PASS	5744.9904	PASS
	102	5744.9898	PASS	5744.989	PASS	5744.9925	PASS	5744.991	PASS
Max. Deviation (ppm)		2.09	PASS	1.91	PASS	1.31	PASS	1.83	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5745 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5745.0033	PASS	5745.0071	PASS	5745.0046	PASS	5745.0069	PASS
40	120	5744.986	PASS	5744.9846	PASS	5744.9865	PASS	5744.9871	PASS
30	120	5744.9822	PASS	5744.979	PASS	5744.9817	PASS	5744.9837	PASS
20	120	5745.0291	PASS	5745.028	PASS	5745.025	PASS	5745.0262	PASS
10	120	5745	PASS	5745.0009	PASS	5744.9992	PASS	5744.9997	PASS
0	120	5745.0205	PASS	5745.0193	PASS	5745.0185	PASS	5745.0225	PASS
-10	120	5744.9736	PASS	5744.9721	PASS	5744.9711	PASS	5744.974	PASS
-20	120	5745.0141	PASS	5745.0134	PASS	5745.0131	PASS	5745.0125	PASS
-30	120	5744.9964	PASS	5744.995	PASS	5744.9978	PASS	5744.9978	PASS
Max. Deviation (ppm)		5.07	PASS	4.87	PASS	5.03	PASS	4.56	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5745 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5745.0284	PASS	5745.0291	PASS	5745.0256	PASS	5745.0255	PASS
	120	5745.0291	PASS	5745.028	PASS	5745.025	PASS	5745.0262	PASS
	102	5745.0291	PASS	5745.0276	PASS	5745.0242	PASS	5745.0259	PASS
Max. Deviation (ppm)		5.07	PASS	5.07	PASS	4.46	PASS	4.56	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5785 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5784.9776	PASS	5784.9764	PASS	5784.9776	PASS	5784.9752	PASS
40	120	5784.984	PASS	5784.9814	PASS	5784.986	PASS	5784.9828	PASS
30	120	5785.0274	PASS	5785.0258	PASS	5785.0266	PASS	5785.0274	PASS
20	120	5785.0095	PASS	5785.0093	PASS	5785.0048	PASS	5785.009	PASS
10	120	5784.9936	PASS	5784.9915	PASS	5784.9934	PASS	5784.9946	PASS
0	120	5785.0184	PASS	5785.0204	PASS	5785.0174	PASS	5785.0182	PASS
-10	120	5784.9963	PASS	5784.9991	PASS	5784.9937	PASS	5784.9977	PASS
-20	120	5785.0086	PASS	5785.0041	PASS	5785.006	PASS	5785.0047	PASS
-30	120	5785.0061	PASS	5785.0047	PASS	5785.0026	PASS	5785.0043	PASS
Max. Deviation (ppm)		4.74	PASS	4.46	PASS	4.60	PASS	4.74	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5785 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5785.009	PASS	5785.0084	PASS	5785.0038	PASS	5785.0082	PASS
	120	5785.0095	PASS	5785.0093	PASS	5785.0048	PASS	5785.009	PASS
	102	5785.0095	PASS	5785.0096	PASS	5785.0041	PASS	5785.0085	PASS
Max. Deviation (ppm)		1.64	PASS	1.66	PASS	0.83	PASS	1.56	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5785 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5784.9905	PASS	5784.9888	PASS	5784.9904	PASS	5784.9853	PASS
40	120	5784.9903	PASS	5784.9918	PASS	5784.9915	PASS	5784.9876	PASS
30	120	5784.9899	PASS	5784.9936	PASS	5784.9929	PASS	5784.9904	PASS
20	120	5784.9741	PASS	5784.9772	PASS	5784.9787	PASS	5784.9763	PASS
10	120	5785.0094	PASS	5785.0147	PASS	5785.012	PASS	5785.0103	PASS
0	120	5785.0057	PASS	5785.0092	PASS	5785.0074	PASS	5785.0063	PASS
-10	120	5784.9733	PASS	5784.9734	PASS	5784.9732	PASS	5784.9773	PASS
-20	120	5785.0238	PASS	5785.0213	PASS	5785.0207	PASS	5785.0234	PASS
-30	120	5784.9715	PASS	5784.9734	PASS	5784.9732	PASS	5784.9752	PASS
Max. Deviation (ppm)		4.93	PASS	4.60	PASS	4.63	PASS	4.29	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5785 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5784.9741	PASS	5784.9778	PASS	5784.9792	PASS	5784.9756	PASS
	120	5784.9741	PASS	5784.9772	PASS	5784.9787	PASS	5784.9763	PASS
	102	5784.9752	PASS	5784.9761	PASS	5784.9793	PASS	5784.976	PASS
Max. Deviation (ppm)		4.48	PASS	4.13	PASS	3.68	PASS	4.22	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5825 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5825.0174	PASS	5825.0211	PASS	5825.0216	PASS	5825.0168	PASS
40	120	5825.0246	PASS	5825.0298	PASS	5825.0266	PASS	5825.0264	PASS
30	120	5825.0038	PASS	5825.0008	PASS	5825.0025	PASS	5825.0011	PASS
20	120	5824.9946	PASS	5824.9974	PASS	5824.9955	PASS	5824.994	PASS
10	120	5825.0256	PASS	5825.0212	PASS	5825.0246	PASS	5825.0229	PASS
0	120	5825.0119	PASS	5825.0114	PASS	5825.0107	PASS	5825.0116	PASS
-10	120	5825.0295	PASS	5825.0254	PASS	5825.0293	PASS	5825.0252	PASS
-20	120	5825.0122	PASS	5825.0128	PASS	5825.0087	PASS	5825.0112	PASS
-30	120	5825.0193	PASS	5825.0184	PASS	5825.021	PASS	5825.0213	PASS
Max. Deviation (ppm)		5.06	PASS	5.12	PASS	5.03	PASS	4.53	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5825 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5824.9936	PASS	5824.9982	PASS	5824.9959	PASS	5824.9946	PASS
	120	5824.9946	PASS	5824.9974	PASS	5824.9955	PASS	5824.994	PASS
	102	5824.9941	PASS	5824.9963	PASS	5824.9966	PASS	5824.9949	PASS
Max. Deviation (ppm)		5.06	PASS	5.12	PASS	5.03	PASS	4.53	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5825 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5824.9907	PASS	5824.99	PASS	5824.9889	PASS	5824.9884	PASS
40	120	5825.0021	PASS	5825.0029	PASS	5825.0045	PASS	5825.0049	PASS
30	120	5825.0229	PASS	5825.0239	PASS	5825.0267	PASS	5825.0259	PASS
20	120	5825.0111	PASS	5825.0156	PASS	5825.0148	PASS	5825.0112	PASS
10	120	5825.0081	PASS	5825.004	PASS	5825.0062	PASS	5825.0049	PASS
0	120	5824.9724	PASS	5824.9739	PASS	5824.9723	PASS	5824.9735	PASS
-10	120	5825.0292	PASS	5825.0299	PASS	5825.0294	PASS	5825.0272	PASS
-20	120	5825.0149	PASS	5825.0161	PASS	5825.0147	PASS	5825.0146	PASS
-30	120	5824.9816	PASS	5824.9807	PASS	5824.982	PASS	5824.9807	PASS
Max. Deviation (ppm)		5.01	PASS	5.13	PASS	5.05	PASS	4.67	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5825 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5825.0105	PASS	5825.0159	PASS	5825.0149	PASS	5825.0123	PASS
	120	5825.0111	PASS	5825.0156	PASS	5825.0148	PASS	5825.0112	PASS
	102	5825.0108	PASS	5825.0166	PASS	5825.0137	PASS	5825.0119	PASS
Max. Deviation (ppm)		1.91	PASS	2.85	PASS	2.56	PASS	2.11	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5190 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5190.0105	PASS	5190.0094	PASS	5190.0119	PASS	5190.0119	PASS
40	120	5189.9989	PASS	5189.9974	PASS	5189.997	PASS	5189.9986	PASS
30	120	5190.0232	PASS	5190.0206	PASS	5190.0192	PASS	5190.0223	PASS
20	120	5189.9853	PASS	5189.9842	PASS	5189.983	PASS	5189.9834	PASS
10	120	5190.0217	PASS	5190.024	PASS	5190.0209	PASS	5190.0233	PASS
0	120	5189.9988	PASS	5190.0013	PASS	5189.9999	PASS	5189.9974	PASS
-10	120	5190.0202	PASS	5190.0209	PASS	5190.024	PASS	5190.0217	PASS
-20	120	5189.9987	PASS	5189.9977	PASS	5189.9953	PASS	5189.9969	PASS
-30	120	5190.0023	PASS	5190.0041	PASS	5190.006	PASS	5190.0042	PASS
Max. Deviation (ppm)		4.47	PASS	4.62	PASS	4.62	PASS	4.49	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5190 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5189.9851	PASS	5189.9849	PASS	5189.983	PASS	5189.9831	PASS
	120	5189.9853	PASS	5189.9842	PASS	5189.983	PASS	5189.9834	PASS
	102	5189.9844	PASS	5189.9839	PASS	5189.9828	PASS	5189.9834	PASS
Max. Deviation (ppm)		3.01	PASS	3.10	PASS	3.31	PASS	3.26	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5190 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5190.0096	PASS	5190.0071	PASS	5190.0068	PASS	5190.0113	PASS
40	120	5190.0091	PASS	5190.0061	PASS	5190.0056	PASS	5190.0069	PASS
30	120	5190.0002	PASS	5190.0048	PASS	5190.0032	PASS	5190.0011	PASS
20	120	5189.9996	PASS	5189.997	PASS	5189.9986	PASS	5189.996	PASS
10	120	5190.0012	PASS	5190.0005	PASS	5189.9995	PASS	5190.002	PASS
0	120	5189.979	PASS	5189.9779	PASS	5189.9788	PASS	5189.9806	PASS
-10	120	5190.016	PASS	5190.0198	PASS	5190.016	PASS	5190.0185	PASS
-20	120	5189.9863	PASS	5189.9851	PASS	5189.9864	PASS	5189.9891	PASS
-30	120	5190.0167	PASS	5190.0171	PASS	5190.0153	PASS	5190.0179	PASS
Max. Deviation (ppm)		4.05	PASS	4.26	PASS	4.08	PASS	3.74	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5190 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5189.9995	PASS	5189.9976	PASS	5189.9988	PASS	5189.9959	PASS
	120	5189.9996	PASS	5189.997	PASS	5189.9986	PASS	5189.996	PASS
	102	5189.999	PASS	5189.9961	PASS	5189.9984	PASS	5189.9953	PASS
Max. Deviation (ppm)		0.19	PASS	0.75	PASS	0.31	PASS	0.91	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5230 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5229.9805	PASS	5229.9812	PASS	5229.9799	PASS	5229.9836	PASS
40	120	5230.0019	PASS	5230.0016	PASS	5230.0046	PASS	5230.0032	PASS
30	120	5230.0105	PASS	5230.0104	PASS	5230.0081	PASS	5230.012	PASS
20	120	5229.9969	PASS	5230.0013	PASS	5229.9986	PASS	5229.997	PASS
10	120	5229.9771	PASS	5229.9736	PASS	5229.9741	PASS	5229.9735	PASS
0	120	5230.0138	PASS	5230.0122	PASS	5230.016	PASS	5230.0162	PASS
-10	120	5229.9788	PASS	5229.981	PASS	5229.9811	PASS	5229.976	PASS
-20	120	5230.014	PASS	5230.0167	PASS	5230.0156	PASS	5230.0149	PASS
-30	120	5230.0009	PASS	5230.0038	PASS	5230.0011	PASS	5230.0039	PASS
Max. Deviation (ppm)		4.38	PASS	5.05	PASS	4.95	PASS	5.07	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5230 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5229.9977	PASS	5230.0017	PASS	5229.9983	PASS	5229.996	PASS
	120	5229.9969	PASS	5230.0013	PASS	5229.9986	PASS	5229.997	PASS
	102	5229.9972	PASS	5230.0006	PASS	5229.9991	PASS	5229.9972	PASS
Max. Deviation (ppm)		0.59	PASS	0.33	PASS	0.33	PASS	0.76	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5230 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5230.0237	PASS	5230.0233	PASS	5230.0239	PASS	5230.0221	PASS
40	120	5229.994	PASS	5229.9895	PASS	5229.9917	PASS	5229.9923	PASS
30	120	5229.9913	PASS	5229.9932	PASS	5229.9903	PASS	5229.9916	PASS
20	120	5229.9978	PASS	5229.9965	PASS	5229.9996	PASS	5230.0001	PASS
10	120	5229.9963	PASS	5229.9964	PASS	5229.9994	PASS	5230	PASS
0	120	5230.0224	PASS	5230.0197	PASS	5230.0209	PASS	5230.0219	PASS
-10	120	5230.0185	PASS	5230.0191	PASS	5230.0156	PASS	5230.0169	PASS
-20	120	5229.982	PASS	5229.9812	PASS	5229.9808	PASS	5229.9824	PASS
-30	120	5229.9792	PASS	5229.9795	PASS	5229.9774	PASS	5229.9802	PASS
Max. Deviation (ppm)		4.53	PASS	4.46	PASS	4.57	PASS	4.23	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5230 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5229.9972	PASS	5229.996	PASS	5230.0002	PASS	5230.0009	PASS
	120	5229.9978	PASS	5229.9965	PASS	5229.9996	PASS	5230.0001	PASS
	102	5229.9978	PASS	5229.9975	PASS	5230.0002	PASS	5230.0009	PASS
Max. Deviation (ppm)		0.54	PASS	0.76	PASS	0.08	PASS	0.17	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5755 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5754.9771	PASS	5754.9743	PASS	5754.9777	PASS	5754.9763	5754.9771
40	120	5755.02	PASS	5755.0219	PASS	5755.0234	PASS	5755.0216	5755.02
30	120	5755.008	PASS	5755.0084	PASS	5755.013	PASS	5755.0125	5755.008
20	120	5755.0242	PASS	5755.0249	PASS	5755.0235	PASS	5755.0241	5755.0242
10	120	5754.9816	PASS	5754.9785	PASS	5754.9823	PASS	5754.9815	5754.9816
0	120	5755.0208	PASS	5755.0175	PASS	5755.0169	PASS	5755.0169	5755.0208
-10	120	5754.999	PASS	5754.9984	PASS	5755.0013	PASS	5754.9973	5754.999
-20	120	5754.999	PASS	5754.9993	PASS	5755.0018	PASS	5754.9997	5754.999
-30	120	5755.0205	PASS	5755.0191	PASS	5755.0199	PASS	5755.0213	5755.0205
Max. Deviation (ppm)		4.21	PASS	4.47	PASS	4.08	PASS	4.19	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5755 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5755.0236	PASS	5755.026	PASS	5755.0232	PASS	5755.0232	PASS
	120	5755.0242	PASS	5755.0249	PASS	5755.0235	PASS	5755.0241	PASS
	102	5755.0234	PASS	5755.0257	PASS	5755.0246	PASS	5755.0247	PASS
Max. Deviation (ppm)		4.21	PASS	4.52	PASS	4.27	PASS	4.29	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5755 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5754.9994	PASS	5755.0011	PASS	5755.0015	PASS	5755.0021	PASS
40	120	5755.013	PASS	5755.011	PASS	5755.0126	PASS	5755.0119	PASS
30	120	5754.991	PASS	5754.9942	PASS	5754.9937	PASS	5754.9944	PASS
20	120	5755.0246	PASS	5755.0248	PASS	5755.0264	PASS	5755.0262	PASS
10	120	5754.994	PASS	5754.9932	PASS	5754.994	PASS	5754.9924	PASS
0	120	5754.9822	PASS	5754.9801	PASS	5754.9806	PASS	5754.982	PASS
-10	120	5755.0211	PASS	5755.0203	PASS	5755.0192	PASS	5755.0198	PASS
-20	120	5754.9934	PASS	5754.9971	PASS	5754.9964	PASS	5754.9953	PASS
-30	120	5754.9751	PASS	5754.973	PASS	5754.9719	PASS	5754.9755	PASS
Max. Deviation (ppm)		4.33	PASS	4.69	PASS	4.88	PASS	4.55	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5755 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5755.0238	PASS	5755.0237	PASS	5755.0275	PASS	5755.0254	PASS
	120	5755.0246	PASS	5755.0248	PASS	5755.0264	PASS	5755.0262	PASS
	102	5755.0238	PASS	5755.0258	PASS	5755.0259	PASS	5755.0263	PASS
Max. Deviation (ppm)		4.27	PASS	4.48	PASS	4.78	PASS	4.57	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5795 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5794.9875	PASS	5794.985	PASS	5794.9834	PASS	5794.9835	PASS
40	120	5794.9787	PASS	5794.982	PASS	5794.9842	PASS	5794.9798	PASS
30	120	5794.9821	PASS	5794.9822	PASS	5794.986	PASS	5794.9849	PASS
20	120	5794.9875	PASS	5794.9855	PASS	5794.9869	PASS	5794.9863	PASS
10	120	5794.9811	PASS	5794.9771	PASS	5794.9758	PASS	5794.9756	PASS
0	120	5795.0265	PASS	5795.0286	PASS	5795.0291	PASS	5795.0282	PASS
-10	120	5795.0208	PASS	5795.0242	PASS	5795.0213	PASS	5795.0254	PASS
-20	120	5794.9903	PASS	5794.9899	PASS	5794.9856	PASS	5794.9873	PASS
-30	120	5795.0185	PASS	5795.0171	PASS	5795.015	PASS	5795.0144	PASS
Max. Deviation (ppm)		4.57	PASS	4.94	PASS	5.02	PASS	4.87	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5795 MHz Chain1									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5794.9878	PASS	5794.9852	PASS	5794.9864	PASS	5794.9873	PASS
	120	5794.9875	PASS	5794.9855	PASS	5794.9869	PASS	5794.9863	PASS
	102	5794.9866	PASS	5794.9845	PASS	5794.9871	PASS	5794.987	PASS
Max. Deviation (ppm)		2.31	PASS	2.67	PASS	2.35	PASS	2.36	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Temp.									
Operating Frequency: 5795 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5794.9903	PASS	5794.9914	PASS	5794.9907	PASS	5794.9888	PASS
40	120	5794.9706	PASS	5794.9701	PASS	5794.9741	PASS	5794.9714	PASS
30	120	5794.9893	PASS	5794.9892	PASS	5794.9872	PASS	5794.9899	PASS
20	120	5795.0093	PASS	5795.0086	PASS	5795.0098	PASS	5795.0115	PASS
10	120	5795.0181	PASS	5795.0193	PASS	5795.0206	PASS	5795.0173	PASS
0	120	5795.0001	PASS	5794.9968	PASS	5795.0011	PASS	5794.9992	PASS
-10	120	5794.9707	PASS	5794.9737	PASS	5794.972	PASS	5794.974	PASS
-20	120	5795.0049	PASS	5795.0055	PASS	5795.0069	PASS	5795.007	PASS
-30	120	5795.0212	PASS	5795.022	PASS	5795.0221	PASS	5795.0239	PASS
Max. Deviation (ppm)		5.07	PASS	5.16	PASS	4.83	PASS	4.94	PASS
IEEE Limit (ppm)		±20ppm							

Frequency Stability Versus Voltage									
Operating Frequency: 5795 MHz Chain2									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5795.0093	PASS	5795.0077	PASS	5795.0099	PASS	5795.0115	PASS
	120	5795.0093	PASS	5795.0086	PASS	5795.0098	PASS	5795.0115	PASS
	102	5795.0085	PASS	5795.0077	PASS	5795.0088	PASS	5795.0124	PASS
Max. Deviation (ppm)		1.60	PASS	1.48	PASS	1.71	PASS	2.14	PASS
IEEE Limit (ppm)		±20ppm							

5 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2016	Oct. 23, 2017
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 26, 2016	Oct. 25, 2017
RF Cable	5D-FB	COCCAB-001	Sep. 30, 2016	Sep. 29, 2017
10 dB PAD Mini-Circuits	HAT-10+	CONATT-004	June 20, 2016	June 19, 2017
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
3. Tested Date: Dec. 01, 2016

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY50010156	Aug. 18, 2016	Aug. 17, 2017
Pre-Amplifier(*) EMCI	EMC001340	980142	Jan. 20, 2016	Jan. 19, 2018
Loop Antenna(*) Electro-Metrics	EM-6879	264	Dec. 16, 2014	Dec. 15, 2016
RF Cable	NA	LOOPCAB-001 LOOPCAB-002	Jan. 18, 2016	Jan. 17, 2017
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-05	May 07, 2016	May 06, 2017
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-156	Jan. 04, 2016	Jan. 03, 2017
RF Cable	8D	966-3-1 966-3-2 966-3-3	Apr. 02, 2016	Apr. 01, 2017
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Oct. 05, 2016	Oct. 04, 2017
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Jan. 20, 2016	Jan. 19, 2017
Pre-Amplifier Agilent	8449B	3008A02465	Apr. 05, 2016	Apr. 04, 2017
RF Cable	EMC104-SM-SM-2000 EMC104-SM-SM-5000 EMC104-SM-SM-5000	150317 150321 150322	Mar. 30, 2016	Mar. 29, 2017
Spectrum Analyzer Keysight	N9030A	MY54490520	July 29, 2016	July 28, 2017
Pre-Amplifier EMCI	EMC184045	980143	Jan. 15, 2016	Jan. 14, 2017
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Jan. 08, 2016	Jan. 07, 2017
RF Cable	SUCOFLEX 102	36432/2 36433/2	Jan. 16, 2016	Jan. 15, 2017
Software	ADT_Radiated _V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 3.
4. The FCC Site Registration No. is 147459
5. The CANADA Site Registration No. is 20331-1
6. Tested Date: Dec. 06 to 14, 2016

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	June 28, 2016	June 27, 2017
Spectrum Analyzer Agilent	E4446A	MY48250253	Dec. 21, 2016	Dec. 20, 2017
Power meter Anritsu	ML2495A	1014008	May 5, 2016	May 4, 2017
Power sensor Anritsu	MA2411B	0917122	May 5, 2016	May 4, 2017
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 15, 2016	Jan. 14, 2017
DC Power Supply Topward	6603D	795558	NA	NA
Digital Multimeter FLUKE	87III	73680266	Nov. 10, 2016	Nov. 09, 2017
ESG Vector signal generator Agilent	E4438C	MY45094468/005 506 602 UK6 UNJ	Nov. 25, 2016	Nov. 24, 2017
Mech Switch Absorptive Mini-Circuits	MSP4TA-18+	0140	Mar. 19, 2016	Mar. 18, 2017
FXD ATTEN Mini-Circuits	BW-S3W2+	MN71981	Mar. 19, 2016	Mar. 18, 2017
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

NOTE:
1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: Jan. 10, 2017

Appendix A. List of Test Command

```
BusyBox v1.23.2 (2016-12-20 22:47:02 UTC) built-in shell (ash)

  _______                     __                __                  __
 |_       _|.-----.----.|   |--.-----.|__|.----.-----.|   |.-----.----.
    |     |   |   -__|   __||        |        ||   ||   __|   _   ||   ||   _   |     _|
    |___|   |_____|____||__|__|__|__||__||____|_____||__||_____|__|
                    N E X T    G E N E R A T I O N    G A T E W A Y
 ------------------------------------------------------------------
 NG GATEWAY SIGNATURE DRINK
 ------------------------------------------------------------------
  * 1 oz Vodka                Pour all ingredients into mixing
  * 1 oz Triple Sec         tin with ice, strain into glass.
  * 1 oz Orange juice
 ------------------------------------------------------------------

Product: gbnt-a_vzw
Release: Ruby (16.4)
Version: 16.4.7446-3130000-20161220230657-aa636a7383f23e65d07560e3fbe49cd6cbed2ce0


 Demo build, unofficial Technicolor SW, not suitable for deployment!


Hash config:            aa636a7383f23e65d07560e3fbe49cd6cbed2ce0
Hash openwrt:            2725ab044c9cf73e801506acad38074d56e11b5e
Hash kernel:            8ebb71a4a24463e49cf4b0afa9b7acb2940a2006
Hash packages:           1bbf6846238a26287697dd99861acfdfe613fee1
Hash technicolor:      b3b9b3ef5d4a893faffdc1148c13aa14081b205f
Hash routing:           261305c69baf57ea5512be33af9803c54c2c2dfa
Hash lte:               d353d489c2ddcd883e7b36d4375d7ee408a4b637
Hash custo:              cb1aa41b7db10b7526f3a785cdce80953cef2dbe
Hash mindspeed:          cd5df6841bf54c8c1d7e716ce22d0afa2fef66e5

Bootloader: 16.37.1032-0000000-20160920131846-087cc81602b56d92980ad55d8e70fc9165432df7
================================================================
root@OpenWrt:~# uci get wireless.radio_5G.country
US
================================================================
txcore enabled bitmap (Nsts {4..1}) 0x00 0x00 0x03 0x03
txcore mask OFDM 0x03    CCK 0x03
================================================================
root@OpenWrt:~# wl -i wl1 ver
7.14 RC89.14
wl1: Dec 20 2016 21:26:06 version 7.14.89.14.cpe4.16L03.0-kdb

================================================================
root@OpenWrt:~# wl -i wl1 nvram_dump
sromrev=11
boardrev=0x1355
boardflags=0x10000000
boardflags2=0x2
boardtype=0x668
subvid=0x14e4
boardflags3=0x0
```

boardnum=0
macaddr=e2:b9:e5:6d:ce:83
ccode=
regrev=0
aa2g=0
aa5g=3
agbg0=71
agbg1=71
agbg2=0
aga0=68
aga1=0
aga2=68
txchain=3
rxchain=3
antswitch=0
tssiposslope2g=1
epagain2g=0
pdgain2g=10
tworangetssi2g=0
papdcap2g=0
femctrl=6
tssiposslope5g=1
epagain5g=0
pdgain5g=10
tworangetssi5g=0
papdcap5g=0
gainctrlsph=0
tempthresh=255
tempoffset=255
rawtempsense=0x1ff
measpower=0x7f
tempsense_slope=0xff
tempcorrx=0x3f
tempsense_option=0x3
xtalfreq=65535
pa5gbw4080a1=0xffff,0xffff,0x3222,0x0,0xff42,0xff25,0x18a6,0xfce2,0xffff,0xb300,0x585a,0x525c
phycal_tempdelta=255
temps_period=15
temps_hysteresis=15
measpower1=0x7f
measpower2=0x7f
tssifloor2g=0x3ff
tssifloor5g=0x3ff,0x3ff,0x3ff,0x3ff
pdoffset2g40ma0=15
pdoffset2g40ma1=15
pdoffset2g40ma2=15
pdoffset2g40mvalid=1
pdoffset40ma0=12834
pdoffset40ma1=12834
pdoffset40ma2=12834
pdoffset80ma0=0
pdoffset80ma1=0
pdoffset80ma2=0
subband5gver=0x4
paparambwver=0
pa5gbw4080a0=0xff6e,0x15dc,0xfd61,0xff59,0x15be,0xfd49,0xff5d,0x15f7,0xfd4a,0xff3d,0x1560,0xfd33
pa5gbw40a0=0xff59,0x179b,0xfd65,0xff49,0x16f5,0xfd52,0xff5e,0x17a3,0xfd5e,0xff41,0x1702,0xfd4a
pa5gbw80a0=0xff6e,0x15dc,0xfd61,0xff59,0x15be,0xfd49,0xff5d,0x15f7,0xfd4a,0xff3d,0x1560,0xfd33

pa2gccka0=0xff3e,0x15f9,0xfd36
cckbw202gpo=0
cckbw20ul2gpo=0
mcsbw202gpo=2571386880
mcsbw402gpo=2571386880
dot11agofdmhrbw202gpo=17408
ofdmlrbw202gpo=0
mcsbw205glpo=2576835602
mcsbw405glpo=3398985045
mcsbw805glpo=3130545477
mcsbw205gmpo=2574598640
mcsbw405gmpo=3111535411
mcsbw805gmpo=3112649524
mcsbw205ghpo=2574664192
mcsbw405ghpo=2574664772
mcsbw805ghpo=2826256948
mcslr5glpo=0
mcslr5gmpo=0
mcslr5ghpo=0
sb20in40hrpo=0
sb20in80and160hr5glpo=0
sb40and80hr5glpo=0
sb20in80and160hr5gmpo=0
sb40and80hr5gmpo=0
sb20in80and160hr5ghpo=0
sb40and80hr5ghpo=0
sb20in40lrpo=0
sb20in80and160lr5glpo=0
sb40and80lr5glpo=0
sb20in80and160lr5gmpo=0
sb40and80lr5gmpo=0
sb20in80and160lr5ghpo=0
sb40and80lr5ghpo=0
dot11agduphrpo=0
dot11agduplrpo=0
sar2g=18
sar5g=15
noiselvl2ga0=31
noiselvl2ga1=31
noiselvl2ga2=31
noiselvl5ga0=31,31,31,31
noiselvl5ga1=31,31,31,31
noiselvl5ga2=31,31,31,31
eu_edthresh2g=255
eu_edthresh5g=255
rxgainerr2ga0=63
rxgainerr2ga1=31
rxgainerr2ga2=31
rxgainerr5ga0=63,63,63,63
rxgainerr5ga1=31,31,31,31
rxgainerr5ga2=31,31,31,31
rpcal2g=0
rpcal5gb0=0
rpcal5gb1=0
rpcal5gb2=0
rpcal5gb3=0
txidxcap2g=0
txidxcap5g=0

```
pdoffsetcckma0=0
pdoffsetcckma1=0
pdoffsetcckma2=0
maxp2ga0=66
pa2ga0=0xff24,0x188e,0xfce6
rxgains5gmelnagaina0=7
rxgains5gmtrisoa0=15
rxgains5gmtrelnabypa0=1
rxgains5ghelnagaina0=7
rxgains5ghtrisoa0=15
rxgains5ghtrelnabypa0=1
rxgains2gelnagaina0=0
rxgains2gtrisoa0=0
rxgains2gtrelnabypa0=0
rxgains5gelnagaina0=3
rxgains5gtrisoa0=6
rxgains5gtrelnabypa0=1
maxp5ga0=90,88,92,82
pa5ga0=0xff3e,0x178e,0xfd45,0xff59,0x1825,0xfd53,0xff56,0x1722,0xfd64,0xff62,0x1769,0xfd69
maxp2ga1=66
pa2ga1=0xff3e,0x15f9,0xfd36
rxgains5gmelnagaina1=7
rxgains5gmtrisoa1=15
rxgains5gmtrelnabypa1=1
rxgains5ghelnagaina1=7
rxgains5ghtrisoa1=15
rxgains5ghtrelnabypa1=1
rxgains2gelnagaina1=0
rxgains2gtrisoa1=0
rxgains2gtrelnabypa1=0
rxgains5gelnagaina1=3
rxgains5gtrisoa1=6
rxgains5gtrelnabypa1=1
maxp5ga1=90,88,92,82
pa5ga1=0xff59,0x179b,0xfd65,0xff49,0x16f5,0xfd52,0xff5e,0x17a3,0xfd5e,0xff41,0x1702,0xfd4a
maxp2ga2=66
pa2ga2=0xff25,0x18a6,0xfce2
rxgains5gmelnagaina2=7
rxgains5gmtrisoa2=15
rxgains5gmtrelnabypa2=1
rxgains5ghelnagaina2=7
rxgains5ghtrisoa2=15
rxgains5ghtrelnabypa2=1
rxgains2gelnagaina2=0
rxgains2gtrisoa2=0
rxgains2gtrelnabypa2=0
rxgains5gelnagaina2=3
rxgains5gtrisoa2=6
rxgains5gtrelnabypa2=1
maxp5ga2=90,88,92,82
pa5ga2=0xff6e,0x15dc,0xfd61,0xff59,0x15be,0xfd49,0xff5d,0x15f7,0xfd4a,0xff3d,0x1560,0xfd33
devid=0x43b3
watchdog=3000
====================================================================
root@OpenWrt:~# wl -i wl1 srdump

   srom[000]:   0x3801   0x0300   0x0668   0x14e4   0x0218   0x1b7e   0x0a00   0x2bc4
   srom[008]:   0x2a64   0x2964   0x2c64   0x3ce7   0x460a   0x113c   0x2132   0x3164
```

```
  srom[016]:   0x1852   0x0005   0x1f2e   0x4df7   0x8080   0x000b   0x8630   0x0190
  srom[024]:   0x5f00   0x41f6   0x8630   0x0191   0x8300   0x01eb   0x9f01   0x65f5
  srom[032]:   0x8200   0xd800   0x8010   0x007c   0x1f00   0x0004   0x8000   0x200c
  srom[040]:   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000
  srom[048]:   0x43b3   0x8000   0x0002   0x0000   0x3ff3   0x1800   0x0000   0xffff
  srom[056]:   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff
  srom[064]:   0x0634   0x1355   0x0000   0x1000   0x0002   0x0000   0x0000   0x0000
  srom[072]:   0x0000   0x0000   0x0000   0x0000   0x0000   0xffff   0xffff   0xffff
  srom[080]:   0x0300   0x4747   0x0044   0x0044   0x0033   0x30a1   0x00a1   0xffff
  srom[088]:   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff
  srom[096]:   0xffff   0xffff   0xffff   0xffff   0xffff   0x3222   0x3222   0x3222
  srom[104]:   0x0000   0x0000   0x0000   0x0004   0xff42   0xff24   0x188e   0xfce6
  srom[112]:   0xffff   0xb300   0x585a   0x525c   0xff3e   0x178e   0xfd45   0xff59
  srom[120]:   0x1825   0xfd53   0xff56   0x1722   0xfd64   0xff62   0x1769   0xfd69
  srom[128]:   0xff42   0xff3e   0x15f9   0xfd36   0xffff   0xb300   0x585a   0x525c
  srom[136]:   0xff59   0x179b   0xfd65   0xff49   0x16f5   0xfd52   0xff5e   0x17a3
  srom[144]:   0xfd5e   0xff41   0x1702   0xfd4a   0xff42   0xff25   0x18a6   0xfce2
  srom[152]:   0xffff   0xb300   0x585a   0x525c   0xff6e   0x15dc   0xfd61   0xff59
  srom[160]:   0x15be   0xfd49   0xff5d   0x15f7   0xfd4a   0xff3d   0x1560   0xfd33
  srom[168]:   0x0000   0x0000   0x4000   0x9944   0x4000   0x9944   0x4400   0x0000
  srom[176]:   0x6412   0x9997   0x6555   0xca98   0x5545   0xba98   0x0000   0x0000
  srom[184]:   0x41f0   0x9975   0x4333   0xb976   0x4334   0xb987   0x0000   0x0000
  srom[192]:   0x4200   0x9976   0x4444   0x9976   0x4234   0xa875   0x0000   0x0000
  srom[200]:   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000
  srom[208]:   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000   0x0000
  srom[216]:   0x0000   0x0000   0x0000   0x0000   0xffff   0x0f12   0xffff   0xffff
  srom[224]:   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff   0xffff
  srom[232]:   0xffff   0xff0b
=====================================================================

================================
==============CH36==============
================================
Power Control:              On, HW
Current Channel:            36
BSS Channel:                (null)
BSS Local Max:              30.0 dBm
BSS Local Constraint:       0.0 dB
Channel Width:              20MHz
User Target:                31.75 dBm
SROM Antgain 2G:            0.0 dB / 0.0 dB
SROM Antgain 5G:            4.25 dB / 0.0 dB
SAR:                        -
Open loop:                  Off
Current rate:               [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 20 ldpc

Power Adjust:               abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
      Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
Rate                        Chains 20MHz
DSSS                        1      -
OFDM                        1      20.00
MCS0_7                      1      20.00
VHT8_9SS1                   1      20.00
```

DSSS_MULTI1	2	-
OFDM_CDD1	2	19.75
MCS0_7_CDD1	2	19.75
VHT8_9SS1_CDD1	2	19.75
MCS0_7_STBC	2	19.75
VHT8_9SS1_STBC	2	19.75
MCS8_15	2	19.75
VHT8_9SS2	2	19.75
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-
MCS8_15_SPEXP1	3	-
VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM_TXBF1	2	20.00
MCS0_7_TXBF1	2	20.00
VHT8_9SS1_TXBF1	2	20.00
MCS8_15_TXBF0	2	19.75
OFDM_TXBF2	3	-
MCS0_7_TXBF2	3	-
VHT8_9SS1_TXBF2	3	-
MCS8_15_TXBF1	3	-
VHT8_9SS2_TXBF1	3	-
MCS16_23_TXBF0	3	-

Core Index: 0
Board Limits:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	21.50
OFDM9	1	21.50
OFDM12	1	21.50
OFDM18	1	21.50
OFDM24	1	22.00
OFDM36	1	20.50
OFDM48	1	19.50
OFDM54	1	19.00
MCS0	1	21.50
MCS1	1	21.50
MCS2	1	21.50
MCS3	1	22.00
MCS4	1	20.50
MCS5	1	19.50
MCS6	1	19.00
MCS7	1	18.00
VHT8_9SS1	1	18.00
DSSS_MULTI1	2	-
OFDM6_CDD1	2	21.50
OFDM9_CDD1	2	21.50
OFDM12_CDD1	2	21.50
OFDM18_CDD1	2	21.50
OFDM24_CDD1	2	22.00
OFDM36_CDD1	2	20.50
OFDM48_CDD1	2	19.50

OFDM54_CDD1	2	19.00
MCS0_CDD1	2	21.50
MCS1_CDD1	2	21.50
MCS2_CDD1	2	21.50
MCS3_CDD1	2	22.00
MCS4_CDD1	2	20.50
MCS5_CDD1	2	19.50
MCS6_CDD1	2	19.00
MCS7_CDD1	2	18.00
VHT8_9SS1_CDD1	2	18.00
MCS0_STBC	2	21.50
MCS1_STBC	2	21.50
MCS2_STBC	2	21.50
MCS3_STBC	2	22.00
MCS4_STBC	2	20.50
MCS5_STBC	2	19.50
MCS6_STBC	2	19.00
MCS7_STBC	2	18.00
VHT8_9SS1_STBC	2	18.00
MCS8	2	21.50
MCS9	2	21.50
MCS10	2	21.50
MCS11	2	22.00
MCS12	2	20.50
MCS13	2	19.50
MCS14	2	19.00
MCS15	2	18.00
VHT8_9SS2	2	18.00
DSSS_MULTI2	3	-
OFDM6_CDD2	3	21.50
OFDM9_CDD2	3	21.50
OFDM12_CDD2	3	21.50
OFDM18_CDD2	3	21.50
OFDM24_CDD2	3	22.00
OFDM36_CDD2	3	20.50
OFDM48_CDD2	3	19.50
OFDM54_CDD2	3	19.00
MCS0_CDD2	3	21.50
MCS1_CDD2	3	21.50
MCS2_CDD2	3	21.50
MCS3_CDD2	3	22.00
MCS4_CDD2	3	20.50
MCS5_CDD2	3	19.50
MCS6_CDD2	3	19.00
MCS7_CDD2	3	18.00
VHT8_9SS1_CDD2	3	18.00
MCS0_STBC_SPEXP1	3	21.50
MCS1_STBC_SPEXP1	3	21.50
MCS2_STBC_SPEXP1	3	21.50
MCS3_STBC_SPEXP1	3	22.00
MCS4_STBC_SPEXP1	3	20.50
MCS5_STBC_SPEXP1	3	19.50
MCS6_STBC_SPEXP1	3	19.00
MCS7_STBC_SPEXP1	3	18.00
VHT8_9SS1_STBC_SPEXP1	3	18.00
MCS8_SPEXP1	3	21.50
MCS9_SPEXP1	3	21.50
MCS10_SPEXP1	3	21.50

MCS11_SPEXP1	3	22.00
MCS12_SPEXP1	3	20.50
MCS13_SPEXP1	3	19.50
MCS14_SPEXP1	3	19.00
MCS15_SPEXP1	3	18.00
VHT8_9SS2_SPEXP1	3	18.00
MCS16	3	21.50
MCS17	3	21.50
MCS18	3	21.50
MCS19	3	22.00
MCS20	3	20.50
MCS21	3	19.50
MCS22	3	19.00
MCS23	3	18.00
VHT8_9SS3	3	18.00
OFDM6_TXBF1	2	21.50
OFDM9_TXBF1	2	21.50
OFDM12_TXBF1	2	21.50
OFDM18_TXBF1	2	21.50
OFDM24_TXBF1	2	22.00
OFDM36_TXBF1	2	20.50
OFDM48_TXBF1	2	19.50
OFDM54_TXBF1	2	19.00
MCS0_TXBF1	2	21.50
MCS1_TXBF1	2	21.50
MCS2_TXBF1	2	21.50
MCS3_TXBF1	2	22.00
MCS4_TXBF1	2	20.50
MCS5_TXBF1	2	19.50
MCS6_TXBF1	2	19.00
MCS7_TXBF1	2	18.00
VHT8_9SS1_TXBF1	2	18.00
MCS8_TXBF0	2	21.50
MCS9_TXBF0	2	21.50
MCS10_TXBF0	2	21.50
MCS11_TXBF0	2	22.00
MCS12_TXBF0	2	20.50
MCS13_TXBF0	2	19.50
MCS14_TXBF0	2	19.00
MCS15_TXBF0	2	18.00
OFDM6_TXBF2	3	21.50
OFDM9_TXBF2	3	21.50
OFDM12_TXBF2	3	21.50
OFDM18_TXBF2	3	21.50
OFDM24_TXBF2	3	22.00
OFDM36_TXBF2	3	20.50
OFDM48_TXBF2	3	19.50
OFDM54_TXBF2	3	19.00
MCS0_TXBF2	3	21.50
MCS1_TXBF2	3	21.50
MCS2_TXBF2	3	21.50
MCS3_TXBF2	3	22.00
MCS4_TXBF2	3	20.50
MCS5_TXBF2	3	19.50
MCS6_TXBF2	3	19.00
MCS7_TXBF2	3	18.00
VHT8_9SS1_TXBF2	3	18.00
MCS8_TXBF1	3	21.50

MCS9_TXBF1	3	21.50
MCS10_TXBF1	3	21.50
MCS11_TXBF1	3	22.00
MCS12_TXBF1	3	20.50
MCS13_TXBF1	3	19.50
MCS14_TXBF1	3	19.00
MCS15_TXBF1	3	18.00
VHT8_9SS2_TXBF1	3	18.00
MCS16_TXBF0	3	21.50
MCS17_TXBF0	3	21.50
MCS18_TXBF0	3	21.50
MCS19_TXBF0	3	22.00
MCS20_TXBF0	3	20.50
MCS21_TXBF0	3	19.50
MCS22_TXBF0	3	19.00
MCS23_TXBF0	3	18.00

Power Targets:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	18.50
OFDM9	1	18.50
OFDM12	1	18.50
OFDM18	1	18.50
OFDM24	1	18.50
OFDM36	1	18.50
OFDM48	1	18.00
OFDM54	1	17.50
MCS0	1	18.50
MCS1	1	18.50
MCS2	1	18.50
MCS3	1	18.50
MCS4	1	18.50
MCS5	1	18.00
MCS6	1	17.50
MCS7	1	16.50
VHT8_9SS1	1	16.50
DSSS_MULTI1	2	-
OFDM6_CDD1	2	18.25
OFDM9_CDD1	2	18.25
OFDM12_CDD1	2	18.25
OFDM18_CDD1	2	18.25
OFDM24_CDD1	2	18.25
OFDM36_CDD1	2	18.25
OFDM48_CDD1	2	18.00
OFDM54_CDD1	2	17.50
MCS0_CDD1	2	18.25
MCS1_CDD1	2	18.25
MCS2_CDD1	2	18.25
MCS3_CDD1	2	18.25
MCS4_CDD1	2	18.25
MCS5_CDD1	2	18.00
MCS6_CDD1	2	17.50
MCS7_CDD1	2	16.50
VHT8_9SS1_CDD1	2	16.50
MCS0_STBC	2	18.25
MCS1_STBC	2	18.25
MCS2_STBC	2	18.25

MCS3_STBC	2	18.25
MCS4_STBC	2	18.25
MCS5_STBC	2	18.00
MCS6_STBC	2	17.50
MCS7_STBC	2	16.50
VHT8_9SS1_STBC	2	16.50
MCS8	2	18.25
MCS9	2	18.25
MCS10	2	18.25
MCS11	2	18.25
MCS12	2	18.25
MCS13	2	18.00
MCS14	2	17.50
MCS15	2	16.50
VHT8_9SS2	2	16.50
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-
MCS8_15_SPEXP1	3	-
VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM6_TXBF1	2	18.50
OFDM9_TXBF1	2	18.50
OFDM12_TXBF1	2	18.50
OFDM18_TXBF1	2	18.50
OFDM24_TXBF1	2	18.50
OFDM36_TXBF1	2	18.50
OFDM48_TXBF1	2	18.00
OFDM54_TXBF1	2	17.50
MCS0_TXBF1	2	18.50
MCS1_TXBF1	2	18.50
MCS2_TXBF1	2	18.50
MCS3_TXBF1	2	18.50
MCS4_TXBF1	2	18.50
MCS5_TXBF1	2	18.00
MCS6_TXBF1	2	17.50
MCS7_TXBF1	2	16.50
VHT8_9SS1_TXBF1	2	16.50
MCS8_TXBF0	2	18.25
MCS9_TXBF0	2	18.25
MCS10_TXBF0	2	18.25
MCS11_TXBF0	2	18.25
MCS12_TXBF0	2	18.25
MCS13_TXBF0	2	18.00
MCS14_TXBF0	2	17.50
MCS15_TXBF0	2	16.50
OFDM_TXBF2	3	-
MCS0_7_TXBF2	3	-
VHT8_9SS1_TXBF2	3	-
MCS8_15_TXBF1	3	-
VHT8_9SS2_TXBF1	3	-
MCS16_23_TXBF0	3	-

Maximum Power Target among all rates: 18.50 18.50 18.50

```
Last est. power                          :     18.50    18.50      0.00
Power Target for the current rate     :     18.50    18.50    -
Last adjusted est. power                 :     18.50    18.50      0.00
================================
==============CH40==============
================================
Power Control:              On, HW
Current Channel:            40
BSS Channel:                  (null)
BSS Local Max:               30.0 dBm
BSS Local Constraint:    0.0 dB
Channel Width:               20MHz
User Target:                31.75 dBm
SROM Antgain 2G:            0.0 dB / 0.0 dB
SROM Antgain 5G:            4.25 dB / 0.0 dB
SAR:                          -
Open loop:                   Off
Current rate:               [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 20 ldpc

Power Adjust:                abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
          Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
Rate                         Chains 20MHz
DSSS                           1         -
OFDM                           1         22.00
MCS0_7                         1         22.00
VHT8_9SS1                      1         22.00
DSSS_MULTI1                    2         -
OFDM_CDD1                      2         22.00
MCS0_7_CDD1                    2         22.00
VHT8_9SS1_CDD1                 2         22.00
MCS0_7_STBC                    2         22.00
VHT8_9SS1_STBC                 2         22.00
MCS8_15                        2         22.00
VHT8_9SS2                      2         22.00
DSSS_MULTI2                    3         -
OFDM_CDD2                      3         -
MCS0_7_CDD2                    3         -
VHT8_9SS1_CDD2                 3         -
MCS0_7_STBC_SPEXP1         3         -
VHT8_9SS1_STBC_SPEXP1    3         -
MCS8_15_SPEXP1                 3         -
VHT8_9SS2_SPEXP1               3         -
MCS16_23                       3         -
VHT8_9SS3                      3         -
OFDM_TXBF1                     2         21.00
MCS0_7_TXBF1                   2         21.00
VHT8_9SS1_TXBF1                2         21.00
MCS8_15_TXBF0                  2         22.00
OFDM_TXBF2                     3         -
MCS0_7_TXBF2                   3         -
VHT8_9SS1_TXBF2                3         -
MCS8_15_TXBF1                  3         -
VHT8_9SS2_TXBF1                3         -
```

MCS16_23_TXBF0	3	-

Core Index: 0
Board Limits:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	21.50
OFDM9	1	21.50
OFDM12	1	21.50
OFDM18	1	21.50
OFDM24	1	22.00
OFDM36	1	20.50
OFDM48	1	19.50
OFDM54	1	19.00
MCS0	1	21.50
MCS1	1	21.50
MCS2	1	21.50
MCS3	1	22.00
MCS4	1	20.50
MCS5	1	19.50
MCS6	1	19.00
MCS7	1	18.00
VHT8_9SS1	1	18.00
DSSS_MULTI1	2	-
OFDM6_CDD1	2	21.50
OFDM9_CDD1	2	21.50
OFDM12_CDD1	2	21.50
OFDM18_CDD1	2	21.50
OFDM24_CDD1	2	22.00
OFDM36_CDD1	2	20.50
OFDM48_CDD1	2	19.50
OFDM54_CDD1	2	19.00
MCS0_CDD1	2	21.50
MCS1_CDD1	2	21.50
MCS2_CDD1	2	21.50
MCS3_CDD1	2	22.00
MCS4_CDD1	2	20.50
MCS5_CDD1	2	19.50
MCS6_CDD1	2	19.00
MCS7_CDD1	2	18.00
VHT8_9SS1_CDD1	2	18.00
MCS0_STBC	2	21.50
MCS1_STBC	2	21.50
MCS2_STBC	2	21.50
MCS3_STBC	2	22.00
MCS4_STBC	2	20.50
MCS5_STBC	2	19.50
MCS6_STBC	2	19.00
MCS7_STBC	2	18.00
VHT8_9SS1_STBC	2	18.00
MCS8	2	21.50
MCS9	2	21.50
MCS10	2	21.50
MCS11	2	22.00
MCS12	2	20.50
MCS13	2	19.50
MCS14	2	19.00
MCS15	2	18.00

VHT8_9SS2	2	18.00
DSSS_MULTI2	3	-
OFDM6_CDD2	3	21.50
OFDM9_CDD2	3	21.50
OFDM12_CDD2	3	21.50
OFDM18_CDD2	3	21.50
OFDM24_CDD2	3	22.00
OFDM36_CDD2	3	20.50
OFDM48_CDD2	3	19.50
OFDM54_CDD2	3	19.00
MCS0_CDD2	3	21.50
MCS1_CDD2	3	21.50
MCS2_CDD2	3	21.50
MCS3_CDD2	3	22.00
MCS4_CDD2	3	20.50
MCS5_CDD2	3	19.50
MCS6_CDD2	3	19.00
MCS7_CDD2	3	18.00
VHT8_9SS1_CDD2	3	18.00
MCS0_STBC_SPEXP1	3	21.50
MCS1_STBC_SPEXP1	3	21.50
MCS2_STBC_SPEXP1	3	21.50
MCS3_STBC_SPEXP1	3	22.00
MCS4_STBC_SPEXP1	3	20.50
MCS5_STBC_SPEXP1	3	19.50
MCS6_STBC_SPEXP1	3	19.00
MCS7_STBC_SPEXP1	3	18.00
VHT8_9SS1_STBC_SPEXP1	3	18.00
MCS8_SPEXP1	3	21.50
MCS9_SPEXP1	3	21.50
MCS10_SPEXP1	3	21.50
MCS11_SPEXP1	3	22.00
MCS12_SPEXP1	3	20.50
MCS13_SPEXP1	3	19.50
MCS14_SPEXP1	3	19.00
MCS15_SPEXP1	3	18.00
VHT8_9SS2_SPEXP1	3	18.00
MCS16	3	21.50
MCS17	3	21.50
MCS18	3	21.50
MCS19	3	22.00
MCS20	3	20.50
MCS21	3	19.50
MCS22	3	19.00
MCS23	3	18.00
VHT8_9SS3	3	18.00
OFDM6_TXBF1	2	21.50
OFDM9_TXBF1	2	21.50
OFDM12_TXBF1	2	21.50
OFDM18_TXBF1	2	21.50
OFDM24_TXBF1	2	22.00
OFDM36_TXBF1	2	20.50
OFDM48_TXBF1	2	19.50
OFDM54_TXBF1	2	19.00
MCS0_TXBF1	2	21.50
MCS1_TXBF1	2	21.50
MCS2_TXBF1	2	21.50
MCS3_TXBF1	2	22.00

MCS4_TXBF1	2	20.50
MCS5_TXBF1	2	19.50
MCS6_TXBF1	2	19.00
MCS7_TXBF1	2	18.00
VHT8_9SS1_TXBF1	2	18.00
MCS8_TXBF0	2	21.50
MCS9_TXBF0	2	21.50
MCS10_TXBF0	2	21.50
MCS11_TXBF0	2	22.00
MCS12_TXBF0	2	20.50
MCS13_TXBF0	2	19.50
MCS14_TXBF0	2	19.00
MCS15_TXBF0	2	18.00
OFDM6_TXBF2	3	21.50
OFDM9_TXBF2	3	21.50
OFDM12_TXBF2	3	21.50
OFDM18_TXBF2	3	21.50
OFDM24_TXBF2	3	22.00
OFDM36_TXBF2	3	20.50
OFDM48_TXBF2	3	19.50
OFDM54_TXBF2	3	19.00
MCS0_TXBF2	3	21.50
MCS1_TXBF2	3	21.50
MCS2_TXBF2	3	21.50
MCS3_TXBF2	3	22.00
MCS4_TXBF2	3	20.50
MCS5_TXBF2	3	19.50
MCS6_TXBF2	3	19.00
MCS7_TXBF2	3	18.00
VHT8_9SS1_TXBF2	3	18.00
MCS8_TXBF1	3	21.50
MCS9_TXBF1	3	21.50
MCS10_TXBF1	3	21.50
MCS11_TXBF1	3	22.00
MCS12_TXBF1	3	20.50
MCS13_TXBF1	3	19.50
MCS14_TXBF1	3	19.00
MCS15_TXBF1	3	18.00
VHT8_9SS2_TXBF1	3	18.00
MCS16_TXBF0	3	21.50
MCS17_TXBF0	3	21.50
MCS18_TXBF0	3	21.50
MCS19_TXBF0	3	22.00
MCS20_TXBF0	3	20.50
MCS21_TXBF0	3	19.50
MCS22_TXBF0	3	19.00
MCS23_TXBF0	3	18.00

Power Targets:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	20.00
OFDM9	1	20.00
OFDM12	1	20.00
OFDM18	1	20.00
OFDM24	1	20.50
OFDM36	1	19.00
OFDM48	1	18.00

OFDM54	1	17.50
MCS0	1	20.00
MCS1	1	20.00
MCS2	1	20.00
MCS3	1	20.50
MCS4	1	19.00
MCS5	1	18.00
MCS6	1	17.50
MCS7	1	16.50
VHT8_9SS1	1	16.50
DSSS_MULTI1	2	-
OFDM6_CDD1	2	20.00
OFDM9_CDD1	2	20.00
OFDM12_CDD1	2	20.00
OFDM18_CDD1	2	20.00
OFDM24_CDD1	2	20.50
OFDM36_CDD1	2	19.00
OFDM48_CDD1	2	18.00
OFDM54_CDD1	2	17.50
MCS0_CDD1	2	20.00
MCS1_CDD1	2	20.00
MCS2_CDD1	2	20.00
MCS3_CDD1	2	20.50
MCS4_CDD1	2	19.00
MCS5_CDD1	2	18.00
MCS6_CDD1	2	17.50
MCS7_CDD1	2	16.50
VHT8_9SS1_CDD1	2	16.50
MCS0_STBC	2	20.00
MCS1_STBC	2	20.00
MCS2_STBC	2	20.00
MCS3_STBC	2	20.50
MCS4_STBC	2	19.00
MCS5_STBC	2	18.00
MCS6_STBC	2	17.50
MCS7_STBC	2	16.50
VHT8_9SS1_STBC	2	16.50
MCS8	2	20.00
MCS9	2	20.00
MCS10	2	20.00
MCS11	2	20.50
MCS12	2	19.00
MCS13	2	18.00
MCS14	2	17.50
MCS15	2	16.50
VHT8_9SS2	2	16.50
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-
MCS8_15_SPEXP1	3	-
VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM6_TXBF1	2	19.50
OFDM9_TXBF1	2	19.50

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OFDM12_TXBF1              2       19.50
OFDM18_TXBF1              2       19.50
OFDM24_TXBF1              2       19.50
OFDM36_TXBF1              2       19.00
OFDM48_TXBF1              2       18.00
OFDM54_TXBF1              2       17.50
MCS0_TXBF1                2       19.50
MCS1_TXBF1                2       19.50
MCS2_TXBF1                2       19.50
MCS3_TXBF1                2       19.50
MCS4_TXBF1                2       19.00
MCS5_TXBF1                2       18.00
MCS6_TXBF1                2       17.50
MCS7_TXBF1                2       16.50
VHT8_9SS1_TXBF1           2       16.50
MCS8_TXBF0                2       20.00
MCS9_TXBF0                2       20.00
MCS10_TXBF0               2       20.00
MCS11_TXBF0               2       20.50
MCS12_TXBF0               2       19.00
MCS13_TXBF0               2       18.00
MCS14_TXBF0               2       17.50
MCS15_TXBF0               2       16.50
OFDM_TXBF2                3       -
MCS0_7_TXBF2              3       -
VHT8_9SS1_TXBF2           3       -
MCS8_15_TXBF1             3       -
VHT8_9SS2_TXBF1           3       -
MCS16_23_TXBF0            3       -

Maximum Power Target among all rates:     20.50    20.50    20.50
Last est. power                          :     17.75    20.50     0.00
Power Target for the current rate     :     20.00    20.00    -
Last adjusted est. power                 :     18.25    21.00     0.00

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==============CH48==============
================================
Power Control:            On, HW
Current Channel:          48
BSS Channel:               (null)
BSS Local Max:             30.0 dBm
BSS Local Constraint:   0.0 dB
Channel Width:             20MHz
User Target:              31.75 dBm
SROM Antgain 2G:           0.0 dB / 0.0 dB
SROM Antgain 5G:           4.25 dB / 0.0 dB
SAR:                       -
Open loop:                 Off
Current rate:             [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 20 ldpc

Power Adjust:              abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
        Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
```

Rate	Chains	20MHz
DSSS	1	-
OFDM	1	21.50
MCS0_7	1	21.25
VHT8_9SS1	1	21.25
DSSS_MULTI1	2	-
OFDM_CDD1	2	21.25
MCS0_7_CDD1	2	21.25
VHT8_9SS1_CDD1	2	21.25
MCS0_7_STBC	2	21.25
VHT8_9SS1_STBC	2	21.25
MCS8_15	2	21.25
VHT8_9SS2	2	21.25
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-
MCS8_15_SPEXP1	3	-
VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM_TXBF1	2	20.25
MCS0_7_TXBF1	2	20.25
VHT8_9SS1_TXBF1	2	20.25
MCS8_15_TXBF0	2	21.25
OFDM_TXBF2	3	-
MCS0_7_TXBF2	3	-
VHT8_9SS1_TXBF2	3	-
MCS8_15_TXBF1	3	-
VHT8_9SS2_TXBF1	3	-
MCS16_23_TXBF0	3	-

Core Index: 0

Board Limits:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	21.50
OFDM9	1	21.50
OFDM12	1	21.50
OFDM18	1	21.50
OFDM24	1	22.00
OFDM36	1	20.50
OFDM48	1	19.50
OFDM54	1	19.00
MCS0	1	21.50
MCS1	1	21.50
MCS2	1	21.50
MCS3	1	22.00
MCS4	1	20.50
MCS5	1	19.50
MCS6	1	19.00
MCS7	1	18.00
VHT8_9SS1	1	18.00
DSSS_MULTI1	2	-
OFDM6_CDD1	2	21.50
OFDM9_CDD1	2	21.50

OFDM12_CDD1	2	21.50
OFDM18_CDD1	2	21.50
OFDM24_CDD1	2	22.00
OFDM36_CDD1	2	20.50
OFDM48_CDD1	2	19.50
OFDM54_CDD1	2	19.00
MCS0_CDD1	2	21.50
MCS1_CDD1	2	21.50
MCS2_CDD1	2	21.50
MCS3_CDD1	2	22.00
MCS4_CDD1	2	20.50
MCS5_CDD1	2	19.50
MCS6_CDD1	2	19.00
MCS7_CDD1	2	18.00
VHT8_9SS1_CDD1	2	18.00
MCS0_STBC	2	21.50
MCS1_STBC	2	21.50
MCS2_STBC	2	21.50
MCS3_STBC	2	22.00
MCS4_STBC	2	20.50
MCS5_STBC	2	19.50
MCS6_STBC	2	19.00
MCS7_STBC	2	18.00
VHT8_9SS1_STBC	2	18.00
MCS8	2	21.50
MCS9	2	21.50
MCS10	2	21.50
MCS11	2	22.00
MCS12	2	20.50
MCS13	2	19.50
MCS14	2	19.00
MCS15	2	18.00
VHT8_9SS2	2	18.00
DSSS_MULTI2	3	-
OFDM6_CDD2	3	21.50
OFDM9_CDD2	3	21.50
OFDM12_CDD2	3	21.50
OFDM18_CDD2	3	21.50
OFDM24_CDD2	3	22.00
OFDM36_CDD2	3	20.50
OFDM48_CDD2	3	19.50
OFDM54_CDD2	3	19.00
MCS0_CDD2	3	21.50
MCS1_CDD2	3	21.50
MCS2_CDD2	3	21.50
MCS3_CDD2	3	22.00
MCS4_CDD2	3	20.50
MCS5_CDD2	3	19.50
MCS6_CDD2	3	19.00
MCS7_CDD2	3	18.00
VHT8_9SS1_CDD2	3	18.00
MCS0_STBC_SPEXP1	3	21.50
MCS1_STBC_SPEXP1	3	21.50
MCS2_STBC_SPEXP1	3	21.50
MCS3_STBC_SPEXP1	3	22.00
MCS4_STBC_SPEXP1	3	20.50
MCS5_STBC_SPEXP1	3	19.50
MCS6_STBC_SPEXP1	3	19.00

MCS7_STBC_SPEXP1	3	18.00
VHT8_9SS1_STBC_SPEXP1	3	18.00
MCS8_SPEXP1	3	21.50
MCS9_SPEXP1	3	21.50
MCS10_SPEXP1	3	21.50
MCS11_SPEXP1	3	22.00
MCS12_SPEXP1	3	20.50
MCS13_SPEXP1	3	19.50
MCS14_SPEXP1	3	19.00
MCS15_SPEXP1	3	18.00
VHT8_9SS2_SPEXP1	3	18.00
MCS16	3	21.50
MCS17	3	21.50
MCS18	3	21.50
MCS19	3	22.00
MCS20	3	20.50
MCS21	3	19.50
MCS22	3	19.00
MCS23	3	18.00
VHT8_9SS3	3	18.00
OFDM6_TXBF1	2	21.50
OFDM9_TXBF1	2	21.50
OFDM12_TXBF1	2	21.50
OFDM18_TXBF1	2	21.50
OFDM24_TXBF1	2	22.00
OFDM36_TXBF1	2	20.50
OFDM48_TXBF1	2	19.50
OFDM54_TXBF1	2	19.00
MCS0_TXBF1	2	21.50
MCS1_TXBF1	2	21.50
MCS2_TXBF1	2	21.50
MCS3_TXBF1	2	22.00
MCS4_TXBF1	2	20.50
MCS5_TXBF1	2	19.50
MCS6_TXBF1	2	19.00
MCS7_TXBF1	2	18.00
VHT8_9SS1_TXBF1	2	18.00
MCS8_TXBF0	2	21.50
MCS9_TXBF0	2	21.50
MCS10_TXBF0	2	21.50
MCS11_TXBF0	2	22.00
MCS12_TXBF0	2	20.50
MCS13_TXBF0	2	19.50
MCS14_TXBF0	2	19.00
MCS15_TXBF0	2	18.00
OFDM6_TXBF2	3	21.50
OFDM9_TXBF2	3	21.50
OFDM12_TXBF2	3	21.50
OFDM18_TXBF2	3	21.50
OFDM24_TXBF2	3	22.00
OFDM36_TXBF2	3	20.50
OFDM48_TXBF2	3	19.50
OFDM54_TXBF2	3	19.00
MCS0_TXBF2	3	21.50
MCS1_TXBF2	3	21.50
MCS2_TXBF2	3	21.50
MCS3_TXBF2	3	22.00
MCS4_TXBF2	3	20.50

MCS5_TXBF2	3	19.50
MCS6_TXBF2	3	19.00
MCS7_TXBF2	3	18.00
VHT8_9SS1_TXBF2	3	18.00
MCS8_TXBF1	3	21.50
MCS9_TXBF1	3	21.50
MCS10_TXBF1	3	21.50
MCS11_TXBF1	3	22.00
MCS12_TXBF1	3	20.50
MCS13_TXBF1	3	19.50
MCS14_TXBF1	3	19.00
MCS15_TXBF1	3	18.00
VHT8_9SS2_TXBF1	3	18.00
MCS16_TXBF0	3	21.50
MCS17_TXBF0	3	21.50
MCS18_TXBF0	3	21.50
MCS19_TXBF0	3	22.00
MCS20_TXBF0	3	20.50
MCS21_TXBF0	3	19.50
MCS22_TXBF0	3	19.00
MCS23_TXBF0	3	18.00

Power Targets:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	20.00
OFDM9	1	20.00
OFDM12	1	20.00
OFDM18	1	20.00
OFDM24	1	20.00
OFDM36	1	19.00
OFDM48	1	18.00
OFDM54	1	17.50
MCS0	1	19.75
MCS1	1	19.75
MCS2	1	19.75
MCS3	1	19.75
MCS4	1	19.00
MCS5	1	18.00
MCS6	1	17.50
MCS7	1	16.50
VHT8_9SS1	1	16.50
DSSS_MULTI1	2	-
OFDM6_CDD1	2	19.75
OFDM9_CDD1	2	19.75
OFDM12_CDD1	2	19.75
OFDM18_CDD1	2	19.75
OFDM24_CDD1	2	19.75
OFDM36_CDD1	2	19.00
OFDM48_CDD1	2	18.00
OFDM54_CDD1	2	17.50
MCS0_CDD1	2	19.75
MCS1_CDD1	2	19.75
MCS2_CDD1	2	19.75
MCS3_CDD1	2	19.75
MCS4_CDD1	2	19.00
MCS5_CDD1	2	18.00
MCS6_CDD1	2	17.50

MCS7_CDD1	2	16.50
VHT8_9SS1_CDD1	2	16.50
MCS0_STBC	2	19.75
MCS1_STBC	2	19.75
MCS2_STBC	2	19.75
MCS3_STBC	2	19.75
MCS4_STBC	2	19.00
MCS5_STBC	2	18.00
MCS6_STBC	2	17.50
MCS7_STBC	2	16.50
VHT8_9SS1_STBC	2	16.50
MCS8	2	19.75
MCS9	2	19.75
MCS10	2	19.75
MCS11	2	19.75
MCS12	2	19.00
MCS13	2	18.00
MCS14	2	17.50
MCS15	2	16.50
VHT8_9SS2	2	16.50
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-
MCS8_15_SPEXP1	3	-
VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM6_TXBF1	2	18.75
OFDM9_TXBF1	2	18.75
OFDM12_TXBF1	2	18.75
OFDM18_TXBF1	2	18.75
OFDM24_TXBF1	2	18.75
OFDM36_TXBF1	2	18.75
OFDM48_TXBF1	2	18.00
OFDM54_TXBF1	2	17.50
MCS0_TXBF1	2	18.75
MCS1_TXBF1	2	18.75
MCS2_TXBF1	2	18.75
MCS3_TXBF1	2	18.75
MCS4_TXBF1	2	18.75
MCS5_TXBF1	2	18.00
MCS6_TXBF1	2	17.50
MCS7_TXBF1	2	16.50
VHT8_9SS1_TXBF1	2	16.50
MCS8_TXBF0	2	19.75
MCS9_TXBF0	2	19.75
MCS10_TXBF0	2	19.75
MCS11_TXBF0	2	19.75
MCS12_TXBF0	2	19.00
MCS13_TXBF0	2	18.00
MCS14_TXBF0	2	17.50
MCS15_TXBF0	2	16.50
OFDM_TXBF2	3	-
MCS0_7_TXBF2	3	-
VHT8_9SS1_TXBF2	3	-

```
MCS8_15_TXBF1              3        -
VHT8_9SS2_TXBF1            3        -
MCS16_23_TXBF0             3        -

Maximum Power Target among all rates:     20.00    20.00    20.00
Last est. power                           :     20.00    20.00      0.00
Power Target for the current rate     :     20.00    20.00    -
Last adjusted est. power                  :     20.00    20.00      0.00

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==============CH149=============
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Power Control:              On, HW
Current Channel:            149
BSS Channel:                (null)
BSS Local Max:              30.0 dBm
BSS Local Constraint:   0.0 dB
Channel Width:              20MHz
User Target:                31.75 dBm
SROM Antgain 2G:            0.0 dB / 0.0 dB
SROM Antgain 5G:            4.25 dB / 0.0 dB
SAR:                        -
Open loop:                  Off
Current rate:               [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 20 ldpc

Power Adjust:               abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
        Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
Rate                        Chains 20MHz
DSSS                        1        -
OFDM                        1        22.50
MCS0_7                      1        22.00
VHT8_9SS1                   1        22.00
DSSS_MULTI1                 2        -
OFDM_CDD1                   2        22.00
MCS0_7_CDD1                 2        22.00
VHT8_9SS1_CDD1              2        22.00
MCS0_7_STBC                 2        22.00
VHT8_9SS1_STBC              2        22.00
MCS8_15                     2        22.00
VHT8_9SS2                   2        22.00
DSSS_MULTI2                 3        -
OFDM_CDD2                   3        -
MCS0_7_CDD2                 3        -
VHT8_9SS1_CDD2              3        -
MCS0_7_STBC_SPEXP1          3        -
VHT8_9SS1_STBC_SPEXP1       3        -
MCS8_15_SPEXP1              3        -
VHT8_9SS2_SPEXP1            3        -
MCS16_23                    3        -
VHT8_9SS3                   3        -
OFDM_TXBF1                  2        22.00
MCS0_7_TXBF1                2        22.00
VHT8_9SS1_TXBF1             2        22.00
```

MCS8_15_TXBF0	2	22.00
OFDM_TXBF2	3	-
MCS0_7_TXBF2	3	-
VHT8_9SS1_TXBF2	3	-
MCS8_15_TXBF1	3	-
VHT8_9SS2_TXBF1	3	-
MCS16_23_TXBF0	3	-

Core Index: 0
Board Limits:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	20.50
OFDM9	1	20.50
OFDM12	1	20.50
OFDM18	1	20.50
OFDM24	1	20.50
OFDM36	1	19.50
OFDM48	1	18.50
OFDM54	1	17.50
MCS0	1	20.50
MCS1	1	20.50
MCS2	1	20.50
MCS3	1	20.50
MCS4	1	19.50
MCS5	1	18.50
MCS6	1	17.50
MCS7	1	17.00
VHT8_9SS1	1	16.00
DSSS_MULTI1	2	-
OFDM6_CDD1	2	20.50
OFDM9_CDD1	2	20.50
OFDM12_CDD1	2	20.50
OFDM18_CDD1	2	20.50
OFDM24_CDD1	2	20.50
OFDM36_CDD1	2	19.50
OFDM48_CDD1	2	18.50
OFDM54_CDD1	2	17.50
MCS0_CDD1	2	20.50
MCS1_CDD1	2	20.50
MCS2_CDD1	2	20.50
MCS3_CDD1	2	20.50
MCS4_CDD1	2	19.50
MCS5_CDD1	2	18.50
MCS6_CDD1	2	17.50
MCS7_CDD1	2	17.00
VHT8_9SS1_CDD1	2	16.00
MCS0_STBC	2	20.50
MCS1_STBC	2	20.50
MCS2_STBC	2	20.50
MCS3_STBC	2	20.50
MCS4_STBC	2	19.50
MCS5_STBC	2	18.50
MCS6_STBC	2	17.50
MCS7_STBC	2	17.00
VHT8_9SS1_STBC	2	16.00
MCS8	2	20.50
MCS9	2	20.50

MCS10	2	20.50
MCS11	2	20.50
MCS12	2	19.50
MCS13	2	18.50
MCS14	2	17.50
MCS15	2	17.00
VHT8_9SS2	2	16.00
DSSS_MULTI2	3	-
OFDM6_CDD2	3	20.50
OFDM9_CDD2	3	20.50
OFDM12_CDD2	3	20.50
OFDM18_CDD2	3	20.50
OFDM24_CDD2	3	20.50
OFDM36_CDD2	3	19.50
OFDM48_CDD2	3	18.50
OFDM54_CDD2	3	17.50
MCS0_CDD2	3	20.50
MCS1_CDD2	3	20.50
MCS2_CDD2	3	20.50
MCS3_CDD2	3	20.50
MCS4_CDD2	3	19.50
MCS5_CDD2	3	18.50
MCS6_CDD2	3	17.50
MCS7_CDD2	3	17.00
VHT8_9SS1_CDD2	3	16.00
MCS0_STBC_SPEXP1	3	20.50
MCS1_STBC_SPEXP1	3	20.50
MCS2_STBC_SPEXP1	3	20.50
MCS3_STBC_SPEXP1	3	20.50
MCS4_STBC_SPEXP1	3	19.50
MCS5_STBC_SPEXP1	3	18.50
MCS6_STBC_SPEXP1	3	17.50
MCS7_STBC_SPEXP1	3	17.00
VHT8_9SS1_STBC_SPEXP1	3	16.00
MCS8_SPEXP1	3	20.50
MCS9_SPEXP1	3	20.50
MCS10_SPEXP1	3	20.50
MCS11_SPEXP1	3	20.50
MCS12_SPEXP1	3	19.50
MCS13_SPEXP1	3	18.50
MCS14_SPEXP1	3	17.50
MCS15_SPEXP1	3	17.00
VHT8_9SS2_SPEXP1	3	16.00
MCS16	3	20.50
MCS17	3	20.50
MCS18	3	20.50
MCS19	3	20.50
MCS20	3	19.50
MCS21	3	18.50
MCS22	3	17.50
MCS23	3	17.00
VHT8_9SS3	3	16.00
OFDM6_TXBF1	2	20.50
OFDM9_TXBF1	2	20.50
OFDM12_TXBF1	2	20.50
OFDM18_TXBF1	2	20.50
OFDM24_TXBF1	2	20.50
OFDM36_TXBF1	2	19.50

OFDM48_TXBF1	2	18.50
OFDM54_TXBF1	2	17.50
MCS0_TXBF1	2	20.50
MCS1_TXBF1	2	20.50
MCS2_TXBF1	2	20.50
MCS3_TXBF1	2	20.50
MCS4_TXBF1	2	19.50
MCS5_TXBF1	2	18.50
MCS6_TXBF1	2	17.50
MCS7_TXBF1	2	17.00
VHT8_9SS1_TXBF1	2	16.00
MCS8_TXBF0	2	20.50
MCS9_TXBF0	2	20.50
MCS10_TXBF0	2	20.50
MCS11_TXBF0	2	20.50
MCS12_TXBF0	2	19.50
MCS13_TXBF0	2	18.50
MCS14_TXBF0	2	17.50
MCS15_TXBF0	2	17.00
OFDM6_TXBF2	3	20.50
OFDM9_TXBF2	3	20.50
OFDM12_TXBF2	3	20.50
OFDM18_TXBF2	3	20.50
OFDM24_TXBF2	3	20.50
OFDM36_TXBF2	3	19.50
OFDM48_TXBF2	3	18.50
OFDM54_TXBF2	3	17.50
MCS0_TXBF2	3	20.50
MCS1_TXBF2	3	20.50
MCS2_TXBF2	3	20.50
MCS3_TXBF2	3	20.50
MCS4_TXBF2	3	19.50
MCS5_TXBF2	3	18.50
MCS6_TXBF2	3	17.50
MCS7_TXBF2	3	17.00
VHT8_9SS1_TXBF2	3	16.00
MCS8_TXBF1	3	20.50
MCS9_TXBF1	3	20.50
MCS10_TXBF1	3	20.50
MCS11_TXBF1	3	20.50
MCS12_TXBF1	3	19.50
MCS13_TXBF1	3	18.50
MCS14_TXBF1	3	17.50
MCS15_TXBF1	3	17.00
VHT8_9SS2_TXBF1	3	16.00
MCS16_TXBF0	3	20.50
MCS17_TXBF0	3	20.50
MCS18_TXBF0	3	20.50
MCS19_TXBF0	3	20.50
MCS20_TXBF0	3	19.50
MCS21_TXBF0	3	18.50
MCS22_TXBF0	3	17.50
MCS23_TXBF0	3	17.00

Power Targets:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	19.00

OFDM9	1	19.00
OFDM12	1	19.00
OFDM18	1	19.00
OFDM24	1	19.00
OFDM36	1	18.00
OFDM48	1	17.00
OFDM54	1	16.00
MCS0	1	19.00
MCS1	1	19.00
MCS2	1	19.00
MCS3	1	19.00
MCS4	1	18.00
MCS5	1	17.00
MCS6	1	16.00
MCS7	1	15.50
VHT8_9SS1	1	14.50
DSSS_MULTI1	2	-
OFDM6_CDD1	2	19.00
OFDM9_CDD1	2	19.00
OFDM12_CDD1	2	19.00
OFDM18_CDD1	2	19.00
OFDM24_CDD1	2	19.00
OFDM36_CDD1	2	18.00
OFDM48_CDD1	2	17.00
OFDM54_CDD1	2	16.00
MCS0_CDD1	2	19.00
MCS1_CDD1	2	19.00
MCS2_CDD1	2	19.00
MCS3_CDD1	2	19.00
MCS4_CDD1	2	18.00
MCS5_CDD1	2	17.00
MCS6_CDD1	2	16.00
MCS7_CDD1	2	15.50
VHT8_9SS1_CDD1	2	14.50
MCS0_STBC	2	19.00
MCS1_STBC	2	19.00
MCS2_STBC	2	19.00
MCS3_STBC	2	19.00
MCS4_STBC	2	18.00
MCS5_STBC	2	17.00
MCS6_STBC	2	16.00
MCS7_STBC	2	15.50
VHT8_9SS1_STBC	2	14.50
MCS8	2	19.00
MCS9	2	19.00
MCS10	2	19.00
MCS11	2	19.00
MCS12	2	18.00
MCS13	2	17.00
MCS14	2	16.00
MCS15	2	15.50
VHT8_9SS2	2	14.50
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-

```
MCS8_15_SPEXP1          3       -
VHT8_9SS2_SPEXP1        3       -
MCS16_23                3       -
VHT8_9SS3               3       -
OFDM6_TXBF1             2       19.00
OFDM9_TXBF1             2       19.00
OFDM12_TXBF1            2       19.00
OFDM18_TXBF1            2       19.00
OFDM24_TXBF1            2       19.00
OFDM36_TXBF1            2       18.00
OFDM48_TXBF1            2       17.00
OFDM54_TXBF1            2       16.00
MCS0_TXBF1              2       19.00
MCS1_TXBF1              2       19.00
MCS2_TXBF1              2       19.00
MCS3_TXBF1              2       19.00
MCS4_TXBF1              2       18.00
MCS5_TXBF1              2       17.00
MCS6_TXBF1              2       16.00
MCS7_TXBF1              2       15.50
VHT8_9SS1_TXBF1         2       14.50
MCS8_TXBF0              2       19.00
MCS9_TXBF0              2       19.00
MCS10_TXBF0             2       19.00
MCS11_TXBF0             2       19.00
MCS12_TXBF0             2       18.00
MCS13_TXBF0             2       17.00
MCS14_TXBF0             2       16.00
MCS15_TXBF0             2       15.50
OFDM_TXBF2              3       -
MCS0_7_TXBF2            3       -
VHT8_9SS1_TXBF2         3       -
MCS8_15_TXBF1           3       -
VHT8_9SS2_TXBF1         3       -
MCS16_23_TXBF0          3       -

Maximum Power Target among all rates:   19.00   19.00   19.00
Last est. power                         :   18.75   18.75   0.00
Power Target for the current rate   :   19.00   19.00   -
Last adjusted est. power                :   18.75   18.75   0.00

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==============CH157=============
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Power Control:          On, HW
Current Channel:        157
BSS Channel:            (null)
BSS Local Max:          30.0 dBm
BSS Local Constraint:   0.0 dB
Channel Width:          20MHz
User Target:            31.75 dBm
SROM Antgain 2G:        0.0 dB / 0.0 dB
SROM Antgain 5G:        4.25 dB / 0.0 dB
SAR:                    -
Open loop:              Off
Current rate:           [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 20 ldpc

Power Adjust:           abs 0.0 dB (disabled)
```

NOTE: Regulatory Limits, board limits and target power are for core 0
Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:

Rate	Chains	20MHz
DSSS	1	-
OFDM	1	22.50
MCS0_7	1	22.00
VHT8_9SS1	1	22.00
DSSS_MULTI1	2	-
OFDM_CDD1	2	22.00
MCS0_7_CDD1	2	22.00
VHT8_9SS1_CDD1	2	22.00
MCS0_7_STBC	2	22.00
VHT8_9SS1_STBC	2	22.00
MCS8_15	2	22.00
VHT8_9SS2	2	22.00
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-
MCS8_15_SPEXP1	3	-
VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM_TXBF1	2	22.00
MCS0_7_TXBF1	2	22.00
VHT8_9SS1_TXBF1	2	22.00
MCS8_15_TXBF0	2	22.00
OFDM_TXBF2	3	-
MCS0_7_TXBF2	3	-
VHT8_9SS1_TXBF2	3	-
MCS8_15_TXBF1	3	-
VHT8_9SS2_TXBF1	3	-
MCS16_23_TXBF0	3	-

Core Index: 0
Board Limits:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	20.50
OFDM9	1	20.50
OFDM12	1	20.50
OFDM18	1	20.50
OFDM24	1	20.50
OFDM36	1	19.50
OFDM48	1	18.50
OFDM54	1	17.50
MCS0	1	20.50
MCS1	1	20.50
MCS2	1	20.50
MCS3	1	20.50
MCS4	1	19.50
MCS5	1	18.50

MCS6	1	17.50
MCS7	1	17.00
VHT8_9SS1	1	16.00
DSSS_MULTI1	2	-
OFDM6_CDD1	2	20.50
OFDM9_CDD1	2	20.50
OFDM12_CDD1	2	20.50
OFDM18_CDD1	2	20.50
OFDM24_CDD1	2	20.50
OFDM36_CDD1	2	19.50
OFDM48_CDD1	2	18.50
OFDM54_CDD1	2	17.50
MCS0_CDD1	2	20.50
MCS1_CDD1	2	20.50
MCS2_CDD1	2	20.50
MCS3_CDD1	2	20.50
MCS4_CDD1	2	19.50
MCS5_CDD1	2	18.50
MCS6_CDD1	2	17.50
MCS7_CDD1	2	17.00
VHT8_9SS1_CDD1	2	16.00
MCS0_STBC	2	20.50
MCS1_STBC	2	20.50
MCS2_STBC	2	20.50
MCS3_STBC	2	20.50
MCS4_STBC	2	19.50
MCS5_STBC	2	18.50
MCS6_STBC	2	17.50
MCS7_STBC	2	17.00
VHT8_9SS1_STBC	2	16.00
MCS8	2	20.50
MCS9	2	20.50
MCS10	2	20.50
MCS11	2	20.50
MCS12	2	19.50
MCS13	2	18.50
MCS14	2	17.50
MCS15	2	17.00
VHT8_9SS2	2	16.00
DSSS_MULTI2	3	-
OFDM6_CDD2	3	20.50
OFDM9_CDD2	3	20.50
OFDM12_CDD2	3	20.50
OFDM18_CDD2	3	20.50
OFDM24_CDD2	3	20.50
OFDM36_CDD2	3	19.50
OFDM48_CDD2	3	18.50
OFDM54_CDD2	3	17.50
MCS0_CDD2	3	20.50
MCS1_CDD2	3	20.50
MCS2_CDD2	3	20.50
MCS3_CDD2	3	20.50
MCS4_CDD2	3	19.50
MCS5_CDD2	3	18.50
MCS6_CDD2	3	17.50
MCS7_CDD2	3	17.00
VHT8_9SS1_CDD2	3	16.00
MCS0_STBC_SPEXP1	3	20.50

MCS1_STBC_SPEXP1	3	20.50
MCS2_STBC_SPEXP1	3	20.50
MCS3_STBC_SPEXP1	3	20.50
MCS4_STBC_SPEXP1	3	19.50
MCS5_STBC_SPEXP1	3	18.50
MCS6_STBC_SPEXP1	3	17.50
MCS7_STBC_SPEXP1	3	17.00
VHT8_9SS1_STBC_SPEXP1	3	16.00
MCS8_SPEXP1	3	20.50
MCS9_SPEXP1	3	20.50
MCS10_SPEXP1	3	20.50
MCS11_SPEXP1	3	20.50
MCS12_SPEXP1	3	19.50
MCS13_SPEXP1	3	18.50
MCS14_SPEXP1	3	17.50
MCS15_SPEXP1	3	17.00
VHT8_9SS2_SPEXP1	3	16.00
MCS16	3	20.50
MCS17	3	20.50
MCS18	3	20.50
MCS19	3	20.50
MCS20	3	19.50
MCS21	3	18.50
MCS22	3	17.50
MCS23	3	17.00
VHT8_9SS3	3	16.00
OFDM6_TXBF1	2	20.50
OFDM9_TXBF1	2	20.50
OFDM12_TXBF1	2	20.50
OFDM18_TXBF1	2	20.50
OFDM24_TXBF1	2	20.50
OFDM36_TXBF1	2	19.50
OFDM48_TXBF1	2	18.50
OFDM54_TXBF1	2	17.50
MCS0_TXBF1	2	20.50
MCS1_TXBF1	2	20.50
MCS2_TXBF1	2	20.50
MCS3_TXBF1	2	20.50
MCS4_TXBF1	2	19.50
MCS5_TXBF1	2	18.50
MCS6_TXBF1	2	17.50
MCS7_TXBF1	2	17.00
VHT8_9SS1_TXBF1	2	16.00
MCS8_TXBF0	2	20.50
MCS9_TXBF0	2	20.50
MCS10_TXBF0	2	20.50
MCS11_TXBF0	2	20.50
MCS12_TXBF0	2	19.50
MCS13_TXBF0	2	18.50
MCS14_TXBF0	2	17.50
MCS15_TXBF0	2	17.00
OFDM6_TXBF2	3	20.50
OFDM9_TXBF2	3	20.50
OFDM12_TXBF2	3	20.50
OFDM18_TXBF2	3	20.50
OFDM24_TXBF2	3	20.50
OFDM36_TXBF2	3	19.50
OFDM48_TXBF2	3	18.50

OFDM54_TXBF2	3	17.50
MCS0_TXBF2	3	20.50
MCS1_TXBF2	3	20.50
MCS2_TXBF2	3	20.50
MCS3_TXBF2	3	20.50
MCS4_TXBF2	3	19.50
MCS5_TXBF2	3	18.50
MCS6_TXBF2	3	17.50
MCS7_TXBF2	3	17.00
VHT8_9SS1_TXBF2	3	16.00
MCS8_TXBF1	3	20.50
MCS9_TXBF1	3	20.50
MCS10_TXBF1	3	20.50
MCS11_TXBF1	3	20.50
MCS12_TXBF1	3	19.50
MCS13_TXBF1	3	18.50
MCS14_TXBF1	3	17.50
MCS15_TXBF1	3	17.00
VHT8_9SS2_TXBF1	3	16.00
MCS16_TXBF0	3	20.50
MCS17_TXBF0	3	20.50
MCS18_TXBF0	3	20.50
MCS19_TXBF0	3	20.50
MCS20_TXBF0	3	19.50
MCS21_TXBF0	3	18.50
MCS22_TXBF0	3	17.50
MCS23_TXBF0	3	17.00

Power Targets:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	19.00
OFDM9	1	19.00
OFDM12	1	19.00
OFDM18	1	19.00
OFDM24	1	19.00
OFDM36	1	18.00
OFDM48	1	17.00
OFDM54	1	16.00
MCS0	1	19.00
MCS1	1	19.00
MCS2	1	19.00
MCS3	1	19.00
MCS4	1	18.00
MCS5	1	17.00
MCS6	1	16.00
MCS7	1	15.50
VHT8_9SS1	1	14.50
DSSS_MULTI1	2	-
OFDM6_CDD1	2	19.00
OFDM9_CDD1	2	19.00
OFDM12_CDD1	2	19.00
OFDM18_CDD1	2	19.00
OFDM24_CDD1	2	19.00
OFDM36_CDD1	2	18.00
OFDM48_CDD1	2	17.00
OFDM54_CDD1	2	16.00
MCS0_CDD1	2	19.00

MCS1_CDD1	2	19.00
MCS2_CDD1	2	19.00
MCS3_CDD1	2	19.00
MCS4_CDD1	2	18.00
MCS5_CDD1	2	17.00
MCS6_CDD1	2	16.00
MCS7_CDD1	2	15.50
VHT8_9SS1_CDD1	2	14.50
MCS0_STBC	2	19.00
MCS1_STBC	2	19.00
MCS2_STBC	2	19.00
MCS3_STBC	2	19.00
MCS4_STBC	2	18.00
MCS5_STBC	2	17.00
MCS6_STBC	2	16.00
MCS7_STBC	2	15.50
VHT8_9SS1_STBC	2	14.50
MCS8	2	19.00
MCS9	2	19.00
MCS10	2	19.00
MCS11	2	19.00
MCS12	2	18.00
MCS13	2	17.00
MCS14	2	16.00
MCS15	2	15.50
VHT8_9SS2	2	14.50
DSSS_MULTI2	3	-
OFDM_CDD2	3	-
MCS0_7_CDD2	3	-
VHT8_9SS1_CDD2	3	-
MCS0_7_STBC_SPEXP1	3	-
VHT8_9SS1_STBC_SPEXP1	3	-
MCS8_15_SPEXP1	3	-
VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM6_TXBF1	2	19.00
OFDM9_TXBF1	2	19.00
OFDM12_TXBF1	2	19.00
OFDM18_TXBF1	2	19.00
OFDM24_TXBF1	2	19.00
OFDM36_TXBF1	2	18.00
OFDM48_TXBF1	2	17.00
OFDM54_TXBF1	2	16.00
MCS0_TXBF1	2	19.00
MCS1_TXBF1	2	19.00
MCS2_TXBF1	2	19.00
MCS3_TXBF1	2	19.00
MCS4_TXBF1	2	18.00
MCS5_TXBF1	2	17.00
MCS6_TXBF1	2	16.00
MCS7_TXBF1	2	15.50
VHT8_9SS1_TXBF1	2	14.50
MCS8_TXBF0	2	19.00
MCS9_TXBF0	2	19.00
MCS10_TXBF0	2	19.00
MCS11_TXBF0	2	19.00
MCS12_TXBF0	2	18.00

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MCS13_TXBF0                2        17.00
MCS14_TXBF0                2        16.00
MCS15_TXBF0                2        15.50
OFDM_TXBF2                 3        -
MCS0_7_TXBF2               3        -
VHT8_9SS1_TXBF2            3        -
MCS8_15_TXBF1              3        -
VHT8_9SS2_TXBF1            3        -
MCS16_23_TXBF0             3        -

Maximum Power Target among all rates:     19.00    19.00    19.00
Last est. power                           :     19.00    19.00      0.00
Power Target for the current rate     :     19.00    19.00    -
Last adjusted est. power                  :     19.00    19.00      0.00

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==============CH165=============
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Power Control:              On, HW
Current Channel:            165
BSS Channel:                (null)
BSS Local Max:              30.0 dBm
BSS Local Constraint:   0.0 dB
Channel Width:              20MHz
User Target:                31.75 dBm
SROM Antgain 2G:            0.0 dB / 0.0 dB
SROM Antgain 5G:            4.25 dB / 0.0 dB
SAR:                        -
Open loop:                  Off
Current rate:               [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 20 ldpc

Power Adjust:               abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
        Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
Rate                        Chains 20MHz
DSSS                        1        -
OFDM                        1        22.50
MCS0_7                      1        22.00
VHT8_9SS1                   1        22.00
DSSS_MULTI1                 2        -
OFDM_CDD1                   2        22.00
MCS0_7_CDD1                 2        22.00
VHT8_9SS1_CDD1              2        22.00
MCS0_7_STBC                 2        22.00
VHT8_9SS1_STBC              2        22.00
MCS8_15                     2        22.00
VHT8_9SS2                   2        22.00
DSSS_MULTI2                 3        -
OFDM_CDD2                   3        -
MCS0_7_CDD2                 3        -
VHT8_9SS1_CDD2              3        -
MCS0_7_STBC_SPEXP1          3        -
VHT8_9SS1_STBC_SPEXP1       3        -
MCS8_15_SPEXP1              3        -
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VHT8_9SS2_SPEXP1	3	-
MCS16_23	3	-
VHT8_9SS3	3	-
OFDM_TXBF1	2	22.00
MCS0_7_TXBF1	2	22.00
VHT8_9SS1_TXBF1	2	22.00
MCS8_15_TXBF0	2	22.00
OFDM_TXBF2	3	-
MCS0_7_TXBF2	3	-
VHT8_9SS1_TXBF2	3	-
MCS8_15_TXBF1	3	-
VHT8_9SS2_TXBF1	3	-
MCS16_23_TXBF0	3	-

Core Index: 0

Board Limits:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	20.50
OFDM9	1	20.50
OFDM12	1	20.50
OFDM18	1	20.50
OFDM24	1	20.50
OFDM36	1	19.50
OFDM48	1	18.50
OFDM54	1	17.50
MCS0	1	20.50
MCS1	1	20.50
MCS2	1	20.50
MCS3	1	20.50
MCS4	1	19.50
MCS5	1	18.50
MCS6	1	17.50
MCS7	1	17.00
VHT8_9SS1	1	16.00
DSSS_MULTI1	2	-
OFDM6_CDD1	2	20.50
OFDM9_CDD1	2	20.50
OFDM12_CDD1	2	20.50
OFDM18_CDD1	2	20.50
OFDM24_CDD1	2	20.50
OFDM36_CDD1	2	19.50
OFDM48_CDD1	2	18.50
OFDM54_CDD1	2	17.50
MCS0_CDD1	2	20.50
MCS1_CDD1	2	20.50
MCS2_CDD1	2	20.50
MCS3_CDD1	2	20.50
MCS4_CDD1	2	19.50
MCS5_CDD1	2	18.50
MCS6_CDD1	2	17.50
MCS7_CDD1	2	17.00
VHT8_9SS1_CDD1	2	16.00
MCS0_STBC	2	20.50
MCS1_STBC	2	20.50
MCS2_STBC	2	20.50
MCS3_STBC	2	20.50
MCS4_STBC	2	19.50

MCS5_STBC	2	18.50
MCS6_STBC	2	17.50
MCS7_STBC	2	17.00
VHT8_9SS1_STBC	2	16.00
MCS8	2	20.50
MCS9	2	20.50
MCS10	2	20.50
MCS11	2	20.50
MCS12	2	19.50
MCS13	2	18.50
MCS14	2	17.50
MCS15	2	17.00
VHT8_9SS2	2	16.00
DSSS_MULTI2	3	-
OFDM6_CDD2	3	20.50
OFDM9_CDD2	3	20.50
OFDM12_CDD2	3	20.50
OFDM18_CDD2	3	20.50
OFDM24_CDD2	3	20.50
OFDM36_CDD2	3	19.50
OFDM48_CDD2	3	18.50
OFDM54_CDD2	3	17.50
MCS0_CDD2	3	20.50
MCS1_CDD2	3	20.50
MCS2_CDD2	3	20.50
MCS3_CDD2	3	20.50
MCS4_CDD2	3	19.50
MCS5_CDD2	3	18.50
MCS6_CDD2	3	17.50
MCS7_CDD2	3	17.00
VHT8_9SS1_CDD2	3	16.00
MCS0_STBC_SPEXP1	3	20.50
MCS1_STBC_SPEXP1	3	20.50
MCS2_STBC_SPEXP1	3	20.50
MCS3_STBC_SPEXP1	3	20.50
MCS4_STBC_SPEXP1	3	19.50
MCS5_STBC_SPEXP1	3	18.50
MCS6_STBC_SPEXP1	3	17.50
MCS7_STBC_SPEXP1	3	17.00
VHT8_9SS1_STBC_SPEXP1	3	16.00
MCS8_SPEXP1	3	20.50
MCS9_SPEXP1	3	20.50
MCS10_SPEXP1	3	20.50
MCS11_SPEXP1	3	20.50
MCS12_SPEXP1	3	19.50
MCS13_SPEXP1	3	18.50
MCS14_SPEXP1	3	17.50
MCS15_SPEXP1	3	17.00
VHT8_9SS2_SPEXP1	3	16.00
MCS16	3	20.50
MCS17	3	20.50
MCS18	3	20.50
MCS19	3	20.50
MCS20	3	19.50
MCS21	3	18.50
MCS22	3	17.50
MCS23	3	17.00
VHT8_9SS3	3	16.00

OFDM6_TXBF1	2	20.50
OFDM9_TXBF1	2	20.50
OFDM12_TXBF1	2	20.50
OFDM18_TXBF1	2	20.50
OFDM24_TXBF1	2	20.50
OFDM36_TXBF1	2	19.50
OFDM48_TXBF1	2	18.50
OFDM54_TXBF1	2	17.50
MCS0_TXBF1	2	20.50
MCS1_TXBF1	2	20.50
MCS2_TXBF1	2	20.50
MCS3_TXBF1	2	20.50
MCS4_TXBF1	2	19.50
MCS5_TXBF1	2	18.50
MCS6_TXBF1	2	17.50
MCS7_TXBF1	2	17.00
VHT8_9SS1_TXBF1	2	16.00
MCS8_TXBF0	2	20.50
MCS9_TXBF0	2	20.50
MCS10_TXBF0	2	20.50
MCS11_TXBF0	2	20.50
MCS12_TXBF0	2	19.50
MCS13_TXBF0	2	18.50
MCS14_TXBF0	2	17.50
MCS15_TXBF0	2	17.00
OFDM6_TXBF2	3	20.50
OFDM9_TXBF2	3	20.50
OFDM12_TXBF2	3	20.50
OFDM18_TXBF2	3	20.50
OFDM24_TXBF2	3	20.50
OFDM36_TXBF2	3	19.50
OFDM48_TXBF2	3	18.50
OFDM54_TXBF2	3	17.50
MCS0_TXBF2	3	20.50
MCS1_TXBF2	3	20.50
MCS2_TXBF2	3	20.50
MCS3_TXBF2	3	20.50
MCS4_TXBF2	3	19.50
MCS5_TXBF2	3	18.50
MCS6_TXBF2	3	17.50
MCS7_TXBF2	3	17.00
VHT8_9SS1_TXBF2	3	16.00
MCS8_TXBF1	3	20.50
MCS9_TXBF1	3	20.50
MCS10_TXBF1	3	20.50
MCS11_TXBF1	3	20.50
MCS12_TXBF1	3	19.50
MCS13_TXBF1	3	18.50
MCS14_TXBF1	3	17.50
MCS15_TXBF1	3	17.00
VHT8_9SS2_TXBF1	3	16.00
MCS16_TXBF0	3	20.50
MCS17_TXBF0	3	20.50
MCS18_TXBF0	3	20.50
MCS19_TXBF0	3	20.50
MCS20_TXBF0	3	19.50
MCS21_TXBF0	3	18.50
MCS22_TXBF0	3	17.50

MCS23_TXBF0	3	17.00

Power Targets:

Rate	Chains	20MHz
DSSS	1	-
OFDM6	1	19.00
OFDM9	1	19.00
OFDM12	1	19.00
OFDM18	1	19.00
OFDM24	1	19.00
OFDM36	1	18.00
OFDM48	1	17.00
OFDM54	1	16.00
MCS0	1	19.00
MCS1	1	19.00
MCS2	1	19.00
MCS3	1	19.00
MCS4	1	18.00
MCS5	1	17.00
MCS6	1	16.00
MCS7	1	15.50
VHT8_9SS1	1	14.50
DSSS_MULTI1	2	-
OFDM6_CDD1	2	19.00
OFDM9_CDD1	2	19.00
OFDM12_CDD1	2	19.00
OFDM18_CDD1	2	19.00
OFDM24_CDD1	2	19.00
OFDM36_CDD1	2	18.00
OFDM48_CDD1	2	17.00
OFDM54_CDD1	2	16.00
MCS0_CDD1	2	19.00
MCS1_CDD1	2	19.00
MCS2_CDD1	2	19.00
MCS3_CDD1	2	19.00
MCS4_CDD1	2	18.00
MCS5_CDD1	2	17.00
MCS6_CDD1	2	16.00
MCS7_CDD1	2	15.50
VHT8_9SS1_CDD1	2	14.50
MCS0_STBC	2	19.00
MCS1_STBC	2	19.00
MCS2_STBC	2	19.00
MCS3_STBC	2	19.00
MCS4_STBC	2	18.00
MCS5_STBC	2	17.00
MCS6_STBC	2	16.00
MCS7_STBC	2	15.50
VHT8_9SS1_STBC	2	14.50
MCS8	2	19.00
MCS9	2	19.00
MCS10	2	19.00
MCS11	2	19.00
MCS12	2	18.00
MCS13	2	17.00
MCS14	2	16.00
MCS15	2	15.50
VHT8_9SS2	2	14.50

DSSS_MULTI2 3 -
OFDM_CDD2 3 -
MCS0_7_CDD2 3 -
VHT8_9SS1_CDD2 3 -
MCS0_7_STBC_SPEXP1 3 -
VHT8_9SS1_STBC_SPEXP1 3 -
MCS8_15_SPEXP1 3 -
VHT8_9SS2_SPEXP1 3 -
MCS16_23 3 -
VHT8_9SS3 3 -
OFDM6_TXBF1 2 19.00
OFDM9_TXBF1 2 19.00
OFDM12_TXBF1 2 19.00
OFDM18_TXBF1 2 19.00
OFDM24_TXBF1 2 19.00
OFDM36_TXBF1 2 18.00
OFDM48_TXBF1 2 17.00
OFDM54_TXBF1 2 16.00
MCS0_TXBF1 2 19.00
MCS1_TXBF1 2 19.00
MCS2_TXBF1 2 19.00
MCS3_TXBF1 2 19.00
MCS4_TXBF1 2 18.00
MCS5_TXBF1 2 17.00
MCS6_TXBF1 2 16.00
MCS7_TXBF1 2 15.50
VHT8_9SS1_TXBF1 2 14.50
MCS8_TXBF0 2 19.00
MCS9_TXBF0 2 19.00
MCS10_TXBF0 2 19.00
MCS11_TXBF0 2 19.00
MCS12_TXBF0 2 18.00
MCS13_TXBF0 2 17.00
MCS14_TXBF0 2 16.00
MCS15_TXBF0 2 15.50
OFDM_TXBF2 3 -
MCS0_7_TXBF2 3 -
VHT8_9SS1_TXBF2 3 -
MCS8_15_TXBF1 3 -
VHT8_9SS2_TXBF1 3 -
MCS16_23_TXBF0 3 -

Maximum Power Target among all rates: 19.00 19.00 19.00
Last est. power : 18.75 18.75 0.00
Power Target for the current rate : 19.00 19.00 -
Last adjusted est. power : 18.75 18.75 0.00

==========
==========CH38==========
==========
Power Control: On, HW
Current Channel: 36l
BSS Channel: (null)
BSS Local Max: 30.0 dBm
BSS Local Constraint: 0.0 dB
Channel Width: 40MHz
User Target: 31.75 dBm

SROM Antgain 2G: 0.0 dB / 0.0 dB
SROM Antgain 5G: 4.25 dB / 0.0 dB
SAR: -
Open loop: Off
Current rate: [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 40 ldpc

Power Adjust: abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM	1	17.50	17.50
MCS0_7	1	17.50	17.50
VHT8_9SS1	1	17.50	17.50
DSSS_MULTI1	2	-	-
OFDM_CDD1	2	17.50	17.50
MCS0_7_CDD1	2	17.50	17.50
VHT8_9SS1_CDD1	2	17.50	17.50
MCS0_7_STBC	2	17.50	17.50
VHT8_9SS1_STBC	2	17.50	17.50
MCS8_15	2	17.50	17.50
VHT8_9SS2	2	17.50	17.50
DSSS_MULTI2	3	-	-
OFDM_CDD2	3	-	-
MCS0_7_CDD2	3	-	-
VHT8_9SS1_CDD2	3	-	-
MCS0_7_STBC_SPEXP1	3	-	-
VHT8_9SS1_STBC_SPEXP1	3	-	-
MCS8_15_SPEXP1	3	-	-
VHT8_9SS2_SPEXP1	3	-	-
MCS16_23	3	-	-
VHT8_9SS3	3	-	-
OFDM_TXBF1	2	16.25	16.25
MCS0_7_TXBF1	2	16.25	16.25
VHT8_9SS1_TXBF1	2	16.25	16.25
MCS8_15_TXBF0	2	17.50	17.50
OFDM_TXBF2	3	-	-
MCS0_7_TXBF2	3	-	-
VHT8_9SS1_TXBF2	3	-	-
MCS8_15_TXBF1	3	-	-
VHT8_9SS2_TXBF1	3	-	-
MCS16_23_TXBF0	3	-	-

Core Index: 0
Board Limits:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM6	1	21.50	20.00
OFDM9	1	21.50	20.00
OFDM12	1	21.50	20.00
OFDM18	1	21.50	20.00
OFDM24	1	22.00	20.00
OFDM36	1	20.50	20.00
OFDM48	1	19.50	19.50

OFDM54	1	19.00	18.50
MCS0	1	21.50	20.00
MCS1	1	21.50	20.00
MCS2	1	21.50	20.00
MCS3	1	22.00	20.00
MCS4	1	20.50	20.00
MCS5	1	19.50	19.50
MCS6	1	19.00	18.50
MCS7	1	18.00	18.00
VHT8SS1	1	18.00	17.50
VHT9SS1	1	18.00	16.50
DSSS_MULTI1	2	-	-
OFDM6_CDD1	2	21.50	20.00
OFDM9_CDD1	2	21.50	20.00
OFDM12_CDD1	2	21.50	20.00
OFDM18_CDD1	2	21.50	20.00
OFDM24_CDD1	2	22.00	20.00
OFDM36_CDD1	2	20.50	20.00
OFDM48_CDD1	2	19.50	19.50
OFDM54_CDD1	2	19.00	18.50
MCS0_CDD1	2	21.50	20.00
MCS1_CDD1	2	21.50	20.00
MCS2_CDD1	2	21.50	20.00
MCS3_CDD1	2	22.00	20.00
MCS4_CDD1	2	20.50	20.00
MCS5_CDD1	2	19.50	19.50
MCS6_CDD1	2	19.00	18.50
MCS7_CDD1	2	18.00	18.00
VHT8SS1_CDD1	2	18.00	17.50
VHT9SS1_CDD1	2	18.00	16.50
MCS0_STBC	2	21.50	20.00
MCS1_STBC	2	21.50	20.00
MCS2_STBC	2	21.50	20.00
MCS3_STBC	2	22.00	20.00
MCS4_STBC	2	20.50	20.00
MCS5_STBC	2	19.50	19.50
MCS6_STBC	2	19.00	18.50
MCS7_STBC	2	18.00	18.00
VHT8SS1_STBC	2	18.00	17.50
VHT9SS1_STBC	2	18.00	16.50
MCS8	2	21.50	20.00
MCS9	2	21.50	20.00
MCS10	2	21.50	20.00
MCS11	2	22.00	20.00
MCS12	2	20.50	20.00
MCS13	2	19.50	19.50
MCS14	2	19.00	18.50
MCS15	2	18.00	18.00
VHT8SS2	2	18.00	17.50
VHT9SS2	2	18.00	16.50
DSSS_MULTI2	3	-	-
OFDM6_CDD2	3	21.50	20.00
OFDM9_CDD2	3	21.50	20.00
OFDM12_CDD2	3	21.50	20.00
OFDM18_CDD2	3	21.50	20.00
OFDM24_CDD2	3	22.00	20.00
OFDM36_CDD2	3	20.50	20.00
OFDM48_CDD2	3	19.50	19.50

OFDM54_CDD2	3	19.00	18.50
MCS0_CDD2	3	21.50	20.00
MCS1_CDD2	3	21.50	20.00
MCS2_CDD2	3	21.50	20.00
MCS3_CDD2	3	22.00	20.00
MCS4_CDD2	3	20.50	20.00
MCS5_CDD2	3	19.50	19.50
MCS6_CDD2	3	19.00	18.50
MCS7_CDD2	3	18.00	18.00
VHT8SS1_CDD2	3	18.00	17.50
VHT9SS1_CDD2	3	18.00	16.50
MCS0_STBC_SPEXP1	3	21.50	20.00
MCS1_STBC_SPEXP1	3	21.50	20.00
MCS2_STBC_SPEXP1	3	21.50	20.00
MCS3_STBC_SPEXP1	3	22.00	20.00
MCS4_STBC_SPEXP1	3	20.50	20.00
MCS5_STBC_SPEXP1	3	19.50	19.50
MCS6_STBC_SPEXP1	3	19.00	18.50
MCS7_STBC_SPEXP1	3	18.00	18.00
VHT8SS1_STBC_SPEXP1	3	18.00	17.50
VHT9SS1_STBC_SPEXP1	3	18.00	16.50
MCS8_SPEXP1	3	21.50	20.00
MCS9_SPEXP1	3	21.50	20.00
MCS10_SPEXP1	3	21.50	20.00
MCS11_SPEXP1	3	22.00	20.00
MCS12_SPEXP1	3	20.50	20.00
MCS13_SPEXP1	3	19.50	19.50
MCS14_SPEXP1	3	19.00	18.50
MCS15_SPEXP1	3	18.00	18.00
VHT8SS2_SPEXP1	3	18.00	17.50
VHT9SS2_SPEXP1	3	18.00	16.50
MCS16	3	21.50	20.00
MCS17	3	21.50	20.00
MCS18	3	21.50	20.00
MCS19	3	22.00	20.00
MCS20	3	20.50	20.00
MCS21	3	19.50	19.50
MCS22	3	19.00	18.50
MCS23	3	18.00	18.00
VHT8SS3	3	18.00	17.50
VHT9SS3	3	18.00	16.50
OFDM6_TXBF1	2	21.50	20.00
OFDM9_TXBF1	2	21.50	20.00
OFDM12_TXBF1	2	21.50	20.00
OFDM18_TXBF1	2	21.50	20.00
OFDM24_TXBF1	2	22.00	20.00
OFDM36_TXBF1	2	20.50	20.00
OFDM48_TXBF1	2	19.50	19.50
OFDM54_TXBF1	2	19.00	18.50
MCS0_TXBF1	2	21.50	20.00
MCS1_TXBF1	2	21.50	20.00
MCS2_TXBF1	2	21.50	20.00
MCS3_TXBF1	2	22.00	20.00
MCS4_TXBF1	2	20.50	20.00
MCS5_TXBF1	2	19.50	19.50
MCS6_TXBF1	2	19.00	18.50
MCS7_TXBF1	2	18.00	18.00
VHT8SS1_TXBF1	2	18.00	17.50

VHT9SS1_TXBF1	2	18.00	16.50
MCS8_TXBF0	2	21.50	20.00
MCS9_TXBF0	2	21.50	20.00
MCS10_TXBF0	2	21.50	20.00
MCS11_TXBF0	2	22.00	20.00
MCS12_TXBF0	2	20.50	20.00
MCS13_TXBF0	2	19.50	19.50
MCS14_TXBF0	2	19.00	18.50
MCS15_TXBF0	2	18.00	18.00
OFDM6_TXBF2	3	21.50	20.00
OFDM9_TXBF2	3	21.50	20.00
OFDM12_TXBF2	3	21.50	20.00
OFDM18_TXBF2	3	21.50	20.00
OFDM24_TXBF2	3	22.00	20.00
OFDM36_TXBF2	3	20.50	20.00
OFDM48_TXBF2	3	19.50	19.50
OFDM54_TXBF2	3	19.00	18.50
MCS0_TXBF2	3	21.50	20.00
MCS1_TXBF2	3	21.50	20.00
MCS2_TXBF2	3	21.50	20.00
MCS3_TXBF2	3	22.00	20.00
MCS4_TXBF2	3	20.50	20.00
MCS5_TXBF2	3	19.50	19.50
MCS6_TXBF2	3	19.00	18.50
MCS7_TXBF2	3	18.00	18.00
VHT8SS1_TXBF2	3	18.00	17.50
VHT9SS1_TXBF2	3	18.00	16.50
MCS8_TXBF1	3	21.50	20.00
MCS9_TXBF1	3	21.50	20.00
MCS10_TXBF1	3	21.50	20.00
MCS11_TXBF1	3	22.00	20.00
MCS12_TXBF1	3	20.50	20.00
MCS13_TXBF1	3	19.50	19.50
MCS14_TXBF1	3	19.00	18.50
MCS15_TXBF1	3	18.00	18.00
VHT8SS2_TXBF1	3	18.00	17.50
VHT9SS2_TXBF1	3	18.00	16.50
MCS16_TXBF0	3	21.50	20.00
MCS17_TXBF0	3	21.50	20.00
MCS18_TXBF0	3	21.50	20.00
MCS19_TXBF0	3	22.00	20.00
MCS20_TXBF0	3	20.50	20.00
MCS21_TXBF0	3	19.50	19.50
MCS22_TXBF0	3	19.00	18.50
MCS23_TXBF0	3	18.00	18.00

Power Targets:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM	1	16.00	16.00
MCS0_7	1	16.00	16.00
VHT8SS1	1	16.00	16.00
VHT9SS1	1	16.00	15.00
DSSS_MULTI1	2	-	-
OFDM_CDD1	2	16.00	16.00
MCS0_7_CDD1	2	16.00	16.00
VHT8SS1_CDD1	2	16.00	16.00
VHT9SS1_CDD1	2	16.00	15.00

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MCS0_7_STBC                 2        16.00    16.00
VHT8SS1_STBC                2        16.00    16.00
VHT9SS1_STBC                2        16.00    15.00
MCS8_15                     2        16.00    16.00
VHT8SS2                     2        16.00    16.00
VHT9SS2                     2        16.00    15.00
DSSS_MULTI2                 3        -        -
OFDM_CDD2                   3        -        -
MCS0_7_CDD2                 3        -        -
VHT8_9SS1_CDD2              3        -        -
MCS0_7_STBC_SPEXP1          3        -        -
VHT8_9SS1_STBC_SPEXP1       3        -        -
MCS8_15_SPEXP1              3        -        -
VHT8_9SS2_SPEXP1            3        -        -
MCS16_23                    3        -        -
VHT8_9SS3                   3        -        -
OFDM_TXBF1                  2        14.75    14.75
MCS0_7_TXBF1                2        14.75    14.75
VHT8_9SS1_TXBF1             2        14.75    14.75
MCS8_15_TXBF0               2        16.00    16.00
OFDM_TXBF2                  3        -        -
MCS0_7_TXBF2                3        -        -
VHT8_9SS1_TXBF2             3        -        -
MCS8_15_TXBF1               3        -        -
VHT8_9SS2_TXBF1             3        -        -
MCS16_23_TXBF0              3        -        -

Maximum Power Target among all rates:     16.00    16.00    16.00
Last est. power                           :     19.25    18.25     0.00
Power Target for the current rate     :     16.00    16.00    -
Last adjusted est. power                  :     19.25    18.25     0.00

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==============CH46==============
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Power Control:              On, HW
Current Channel:            44l
BSS Channel:                (null)
BSS Local Max:              30.0 dBm
BSS Local Constraint:   0.0 dB
Channel Width:              40MHz
User Target:                31.75 dBm
SROM Antgain 2G:            0.0 dB / 0.0 dB
SROM Antgain 5G:            4.25 dB / 0.0 dB
SAR:                        -
Open loop:                  Off
Current rate:               [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 40 ldpc

Power Adjust:               abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
        Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
Rate                        Chains 20in40 40MHz
DSSS                        1        -        -
OFDM                        1        20.75    20.75
```

MCS0_7	1	20.75	20.75
VHT8_9SS1	1	20.75	20.75
DSSS_MULTI1	2	-	-
OFDM_CDD1	2	20.75	20.75
MCS0_7_CDD1	2	20.75	20.75
VHT8_9SS1_CDD1	2	20.75	20.75
MCS0_7_STBC	2	20.75	20.75
VHT8_9SS1_STBC	2	20.75	20.75
MCS8_15	2	20.75	20.75
VHT8_9SS2	2	20.75	20.75
DSSS_MULTI2	3	-	-
OFDM_CDD2	3	-	-
MCS0_7_CDD2	3	-	-
VHT8_9SS1_CDD2	3	-	-
MCS0_7_STBC_SPEXP1	3	-	-
VHT8_9SS1_STBC_SPEXP1	3	-	-
MCS8_15_SPEXP1	3	-	-
VHT8_9SS2_SPEXP1	3	-	-
MCS16_23	3	-	-
VHT8_9SS3	3	-	-
OFDM_TXBF1	2	20.50	20.50
MCS0_7_TXBF1	2	20.50	20.50
VHT8_9SS1_TXBF1	2	20.50	20.50
MCS8_15_TXBF0	2	20.75	20.75
OFDM_TXBF2	3	-	-
MCS0_7_TXBF2	3	-	-
VHT8_9SS1_TXBF2	3	-	-
MCS8_15_TXBF1	3	-	-
VHT8_9SS2_TXBF1	3	-	-
MCS16_23_TXBF0	3	-	-

Core Index: 0

Board Limits:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM6	1	21.50	20.00
OFDM9	1	21.50	20.00
OFDM12	1	21.50	20.00
OFDM18	1	21.50	20.00
OFDM24	1	22.00	20.00
OFDM36	1	20.50	20.00
OFDM48	1	19.50	19.50
OFDM54	1	19.00	18.50
MCS0	1	21.50	20.00
MCS1	1	21.50	20.00
MCS2	1	21.50	20.00
MCS3	1	22.00	20.00
MCS4	1	20.50	20.00
MCS5	1	19.50	19.50
MCS6	1	19.00	18.50
MCS7	1	18.00	18.00
VHT8SS1	1	18.00	17.50
VHT9SS1	1	18.00	16.50
DSSS_MULTI1	2	-	-
OFDM6_CDD1	2	21.50	20.00
OFDM9_CDD1	2	21.50	20.00
OFDM12_CDD1	2	21.50	20.00
OFDM18_CDD1	2	21.50	20.00

OFDM24_CDD1	2	22.00	20.00
OFDM36_CDD1	2	20.50	20.00
OFDM48_CDD1	2	19.50	19.50
OFDM54_CDD1	2	19.00	18.50
MCS0_CDD1	2	21.50	20.00
MCS1_CDD1	2	21.50	20.00
MCS2_CDD1	2	21.50	20.00
MCS3_CDD1	2	22.00	20.00
MCS4_CDD1	2	20.50	20.00
MCS5_CDD1	2	19.50	19.50
MCS6_CDD1	2	19.00	18.50
MCS7_CDD1	2	18.00	18.00
VHT8SS1_CDD1	2	18.00	17.50
VHT9SS1_CDD1	2	18.00	16.50
MCS0_STBC	2	21.50	20.00
MCS1_STBC	2	21.50	20.00
MCS2_STBC	2	21.50	20.00
MCS3_STBC	2	22.00	20.00
MCS4_STBC	2	20.50	20.00
MCS5_STBC	2	19.50	19.50
MCS6_STBC	2	19.00	18.50
MCS7_STBC	2	18.00	18.00
VHT8SS1_STBC	2	18.00	17.50
VHT9SS1_STBC	2	18.00	16.50
MCS8	2	21.50	20.00
MCS9	2	21.50	20.00
MCS10	2	21.50	20.00
MCS11	2	22.00	20.00
MCS12	2	20.50	20.00
MCS13	2	19.50	19.50
MCS14	2	19.00	18.50
MCS15	2	18.00	18.00
VHT8SS2	2	18.00	17.50
VHT9SS2	2	18.00	16.50
DSSS_MULTI2	3	-	-
OFDM6_CDD2	3	21.50	20.00
OFDM9_CDD2	3	21.50	20.00
OFDM12_CDD2	3	21.50	20.00
OFDM18_CDD2	3	21.50	20.00
OFDM24_CDD2	3	22.00	20.00
OFDM36_CDD2	3	20.50	20.00
OFDM48_CDD2	3	19.50	19.50
OFDM54_CDD2	3	19.00	18.50
MCS0_CDD2	3	21.50	20.00
MCS1_CDD2	3	21.50	20.00
MCS2_CDD2	3	21.50	20.00
MCS3_CDD2	3	22.00	20.00
MCS4_CDD2	3	20.50	20.00
MCS5_CDD2	3	19.50	19.50
MCS6_CDD2	3	19.00	18.50
MCS7_CDD2	3	18.00	18.00
VHT8SS1_CDD2	3	18.00	17.50
VHT9SS1_CDD2	3	18.00	16.50
MCS0_STBC_SPEXP1	3	21.50	20.00
MCS1_STBC_SPEXP1	3	21.50	20.00
MCS2_STBC_SPEXP1	3	21.50	20.00
MCS3_STBC_SPEXP1	3	22.00	20.00
MCS4_STBC_SPEXP1	3	20.50	20.00

MCS5_STBC_SPEXP1	3	19.50	19.50
MCS6_STBC_SPEXP1	3	19.00	18.50
MCS7_STBC_SPEXP1	3	18.00	18.00
VHT8SS1_STBC_SPEXP1	3	18.00	17.50
VHT9SS1_STBC_SPEXP1	3	18.00	16.50
MCS8_SPEXP1	3	21.50	20.00
MCS9_SPEXP1	3	21.50	20.00
MCS10_SPEXP1	3	21.50	20.00
MCS11_SPEXP1	3	22.00	20.00
MCS12_SPEXP1	3	20.50	20.00
MCS13_SPEXP1	3	19.50	19.50
MCS14_SPEXP1	3	19.00	18.50
MCS15_SPEXP1	3	18.00	18.00
VHT8SS2_SPEXP1	3	18.00	17.50
VHT9SS2_SPEXP1	3	18.00	16.50
MCS16	3	21.50	20.00
MCS17	3	21.50	20.00
MCS18	3	21.50	20.00
MCS19	3	22.00	20.00
MCS20	3	20.50	20.00
MCS21	3	19.50	19.50
MCS22	3	19.00	18.50
MCS23	3	18.00	18.00
VHT8SS3	3	18.00	17.50
VHT9SS3	3	18.00	16.50
OFDM6_TXBF1	2	21.50	20.00
OFDM9_TXBF1	2	21.50	20.00
OFDM12_TXBF1	2	21.50	20.00
OFDM18_TXBF1	2	21.50	20.00
OFDM24_TXBF1	2	22.00	20.00
OFDM36_TXBF1	2	20.50	20.00
OFDM48_TXBF1	2	19.50	19.50
OFDM54_TXBF1	2	19.00	18.50
MCS0_TXBF1	2	21.50	20.00
MCS1_TXBF1	2	21.50	20.00
MCS2_TXBF1	2	21.50	20.00
MCS3_TXBF1	2	22.00	20.00
MCS4_TXBF1	2	20.50	20.00
MCS5_TXBF1	2	19.50	19.50
MCS6_TXBF1	2	19.00	18.50
MCS7_TXBF1	2	18.00	18.00
VHT8SS1_TXBF1	2	18.00	17.50
VHT9SS1_TXBF1	2	18.00	16.50
MCS8_TXBF0	2	21.50	20.00
MCS9_TXBF0	2	21.50	20.00
MCS10_TXBF0	2	21.50	20.00
MCS11_TXBF0	2	22.00	20.00
MCS12_TXBF0	2	20.50	20.00
MCS13_TXBF0	2	19.50	19.50
MCS14_TXBF0	2	19.00	18.50
MCS15_TXBF0	2	18.00	18.00
OFDM6_TXBF2	3	21.50	20.00
OFDM9_TXBF2	3	21.50	20.00
OFDM12_TXBF2	3	21.50	20.00
OFDM18_TXBF2	3	21.50	20.00
OFDM24_TXBF2	3	22.00	20.00
OFDM36_TXBF2	3	20.50	20.00
OFDM48_TXBF2	3	19.50	19.50

OFDM54_TXBF2	3	19.00	18.50
MCS0_TXBF2	3	21.50	20.00
MCS1_TXBF2	3	21.50	20.00
MCS2_TXBF2	3	21.50	20.00
MCS3_TXBF2	3	22.00	20.00
MCS4_TXBF2	3	20.50	20.00
MCS5_TXBF2	3	19.50	19.50
MCS6_TXBF2	3	19.00	18.50
MCS7_TXBF2	3	18.00	18.00
VHT8SS1_TXBF2	3	18.00	17.50
VHT9SS1_TXBF2	3	18.00	16.50
MCS8_TXBF1	3	21.50	20.00
MCS9_TXBF1	3	21.50	20.00
MCS10_TXBF1	3	21.50	20.00
MCS11_TXBF1	3	22.00	20.00
MCS12_TXBF1	3	20.50	20.00
MCS13_TXBF1	3	19.50	19.50
MCS14_TXBF1	3	19.00	18.50
MCS15_TXBF1	3	18.00	18.00
VHT8SS2_TXBF1	3	18.00	17.50
VHT9SS2_TXBF1	3	18.00	16.50
MCS16_TXBF0	3	21.50	20.00
MCS17_TXBF0	3	21.50	20.00
MCS18_TXBF0	3	21.50	20.00
MCS19_TXBF0	3	22.00	20.00
MCS20_TXBF0	3	20.50	20.00
MCS21_TXBF0	3	19.50	19.50
MCS22_TXBF0	3	19.00	18.50
MCS23_TXBF0	3	18.00	18.00

Power Targets:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM6	1	19.25	18.50
OFDM9	1	19.25	18.50
OFDM12	1	19.25	18.50
OFDM18	1	19.25	18.50
OFDM24	1	19.25	18.50
OFDM36	1	19.00	18.50
OFDM48	1	18.00	18.00
OFDM54	1	17.50	17.00
MCS0	1	19.25	18.50
MCS1	1	19.25	18.50
MCS2	1	19.25	18.50
MCS3	1	19.25	18.50
MCS4	1	19.00	18.50
MCS5	1	18.00	18.00
MCS6	1	17.50	17.00
MCS7	1	16.50	16.50
VHT8SS1	1	16.50	16.00
VHT9SS1	1	16.50	15.00
DSSS_MULTI1	2	-	-
OFDM6_CDD1	2	19.25	18.50
OFDM9_CDD1	2	19.25	18.50
OFDM12_CDD1	2	19.25	18.50
OFDM18_CDD1	2	19.25	18.50
OFDM24_CDD1	2	19.25	18.50
OFDM36_CDD1	2	19.00	18.50

OFDM48_CDD1	2	18.00	18.00
OFDM54_CDD1	2	17.50	17.00
MCS0_CDD1	2	19.25	18.50
MCS1_CDD1	2	19.25	18.50
MCS2_CDD1	2	19.25	18.50
MCS3_CDD1	2	19.25	18.50
MCS4_CDD1	2	19.00	18.50
MCS5_CDD1	2	18.00	18.00
MCS6_CDD1	2	17.50	17.00
MCS7_CDD1	2	16.50	16.50
VHT8SS1_CDD1	2	16.50	16.00
VHT9SS1_CDD1	2	16.50	15.00
MCS0_STBC	2	19.25	18.50
MCS1_STBC	2	19.25	18.50
MCS2_STBC	2	19.25	18.50
MCS3_STBC	2	19.25	18.50
MCS4_STBC	2	19.00	18.50
MCS5_STBC	2	18.00	18.00
MCS6_STBC	2	17.50	17.00
MCS7_STBC	2	16.50	16.50
VHT8SS1_STBC	2	16.50	16.00
VHT9SS1_STBC	2	16.50	15.00
MCS8	2	19.25	18.50
MCS9	2	19.25	18.50
MCS10	2	19.25	18.50
MCS11	2	19.25	18.50
MCS12	2	19.00	18.50
MCS13	2	18.00	18.00
MCS14	2	17.50	17.00
MCS15	2	16.50	16.50
VHT8SS2	2	16.50	16.00
VHT9SS2	2	16.50	15.00
DSSS_MULTI2	3	-	-
OFDM_CDD2	3	-	-
MCS0_7_CDD2	3	-	-
VHT8_9SS1_CDD2	3	-	-
MCS0_7_STBC_SPEXP1	3	-	-
VHT8_9SS1_STBC_SPEXP1	3	-	-
MCS8_15_SPEXP1	3	-	-
VHT8_9SS2_SPEXP1	3	-	-
MCS16_23	3	-	-
VHT8_9SS3	3	-	-
OFDM6_TXBF1	2	19.00	18.50
OFDM9_TXBF1	2	19.00	18.50
OFDM12_TXBF1	2	19.00	18.50
OFDM18_TXBF1	2	19.00	18.50
OFDM24_TXBF1	2	19.00	18.50
OFDM36_TXBF1	2	19.00	18.50
OFDM48_TXBF1	2	18.00	18.00
OFDM54_TXBF1	2	17.50	17.00
MCS0_TXBF1	2	19.00	18.50
MCS1_TXBF1	2	19.00	18.50
MCS2_TXBF1	2	19.00	18.50
MCS3_TXBF1	2	19.00	18.50
MCS4_TXBF1	2	19.00	18.50
MCS5_TXBF1	2	18.00	18.00
MCS6_TXBF1	2	17.50	17.00
MCS7_TXBF1	2	16.50	16.50

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VHT8SS1_TXBF1          2     16.50   16.00
VHT9SS1_TXBF1          2     16.50   15.00
MCS8_TXBF0             2     19.25   18.50
MCS9_TXBF0             2     19.25   18.50
MCS10_TXBF0            2     19.25   18.50
MCS11_TXBF0            2     19.25   18.50
MCS12_TXBF0            2     19.00   18.50
MCS13_TXBF0            2     18.00   18.00
MCS14_TXBF0            2     17.50   17.00
MCS15_TXBF0            2     16.50   16.50
OFDM_TXBF2             3     -       -
MCS0_7_TXBF2           3     -       -
VHT8_9SS1_TXBF2        3     -       -
MCS8_15_TXBF1          3     -       -
VHT8_9SS2_TXBF1        3     -       -
MCS16_23_TXBF0         3     -       -

Maximum Power Target among all rates:   19.25   19.25   19.25
Last est. power                         :   18.75   18.75   0.00
Power Target for the current rate   :   18.75   18.75   -
Last adjusted est. power                :   19.25   19.25   0.00

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==============CH151=============
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Power Control:          On, HW
Current Channel:        149l
BSS Channel:            (null)
BSS Local Max:          30.0 dBm
BSS Local Constraint:   0.0 dB
Channel Width:          40MHz
User Target:            31.75 dBm
SROM Antgain 2G:        0.0 dB / 0.0 dB
SROM Antgain 5G:        4.25 dB / 0.0 dB
SAR:                    -
Open loop:              Off
Current rate:           [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 40 ldpc

Power Adjust:           abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
      Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
Rate                    Chains 20in40 40MHz
DSSS                    1      -       -
OFDM                    1      21.50   21.50
MCS0_7                  1      21.50   21.50
VHT8_9SS1               1      21.50   21.50
DSSS_MULTI1             2      -       -
OFDM_CDD1               2      21.50   21.50
MCS0_7_CDD1             2      21.50   21.50
VHT8_9SS1_CDD1          2      21.50   21.50
MCS0_7_STBC             2      21.50   21.50
VHT8_9SS1_STBC          2      21.50   21.50
MCS8_15                 2      21.50   21.50
VHT8_9SS2               2      21.50   21.50
```

DSSS_MULTI2	3	-	-
OFDM_CDD2	3	-	-
MCS0_7_CDD2	3	-	-
VHT8_9SS1_CDD2	3	-	-
MCS0_7_STBC_SPEXP1	3	-	-
VHT8_9SS1_STBC_SPEXP1	3	-	-
MCS8_15_SPEXP1	3	-	-
VHT8_9SS2_SPEXP1	3	-	-
MCS16_23	3	-	-
VHT8_9SS3	3	-	-
OFDM_TXBF1	2	21.50	21.50
MCS0_7_TXBF1	2	21.50	21.50
VHT8_9SS1_TXBF1	2	21.50	21.50
MCS8_15_TXBF0	2	21.50	21.50
OFDM_TXBF2	3	-	-
MCS0_7_TXBF2	3	-	-
VHT8_9SS1_TXBF2	3	-	-
MCS8_15_TXBF1	3	-	-
VHT8_9SS2_TXBF1	3	-	-
MCS16_23_TXBF0	3	-	-

Core Index: 0

Board Limits:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM6	1	20.50	18.50
OFDM9	1	20.50	18.50
OFDM12	1	20.50	18.50
OFDM18	1	20.50	18.50
OFDM24	1	20.50	18.50
OFDM36	1	19.50	18.50
OFDM48	1	18.50	18.50
OFDM54	1	17.50	17.50
MCS0	1	20.50	18.50
MCS1	1	20.50	18.50
MCS2	1	20.50	18.50
MCS3	1	20.50	18.50
MCS4	1	19.50	18.50
MCS5	1	18.50	18.50
MCS6	1	17.50	17.50
MCS7	1	17.00	17.00
VHT8_9SS1	1	16.00	16.00
DSSS_MULTI1	2	-	-
OFDM6_CDD1	2	20.50	18.50
OFDM9_CDD1	2	20.50	18.50
OFDM12_CDD1	2	20.50	18.50
OFDM18_CDD1	2	20.50	18.50
OFDM24_CDD1	2	20.50	18.50
OFDM36_CDD1	2	19.50	18.50
OFDM48_CDD1	2	18.50	18.50
OFDM54_CDD1	2	17.50	17.50
MCS0_CDD1	2	20.50	18.50
MCS1_CDD1	2	20.50	18.50
MCS2_CDD1	2	20.50	18.50
MCS3_CDD1	2	20.50	18.50
MCS4_CDD1	2	19.50	18.50
MCS5_CDD1	2	18.50	18.50
MCS6_CDD1	2	17.50	17.50

MCS7_CDD1	2	17.00	17.00
VHT8_9SS1_CDD1	2	16.00	16.00
MCS0_STBC	2	20.50	18.50
MCS1_STBC	2	20.50	18.50
MCS2_STBC	2	20.50	18.50
MCS3_STBC	2	20.50	18.50
MCS4_STBC	2	19.50	18.50
MCS5_STBC	2	18.50	18.50
MCS6_STBC	2	17.50	17.50
MCS7_STBC	2	17.00	17.00
VHT8_9SS1_STBC	2	16.00	16.00
MCS8	2	20.50	18.50
MCS9	2	20.50	18.50
MCS10	2	20.50	18.50
MCS11	2	20.50	18.50
MCS12	2	19.50	18.50
MCS13	2	18.50	18.50
MCS14	2	17.50	17.50
MCS15	2	17.00	17.00
VHT8_9SS2	2	16.00	16.00
DSSS_MULTI2	3	-	-
OFDM6_CDD2	3	20.50	18.50
OFDM9_CDD2	3	20.50	18.50
OFDM12_CDD2	3	20.50	18.50
OFDM18_CDD2	3	20.50	18.50
OFDM24_CDD2	3	20.50	18.50
OFDM36_CDD2	3	19.50	18.50
OFDM48_CDD2	3	18.50	18.50
OFDM54_CDD2	3	17.50	17.50
MCS0_CDD2	3	20.50	18.50
MCS1_CDD2	3	20.50	18.50
MCS2_CDD2	3	20.50	18.50
MCS3_CDD2	3	20.50	18.50
MCS4_CDD2	3	19.50	18.50
MCS5_CDD2	3	18.50	18.50
MCS6_CDD2	3	17.50	17.50
MCS7_CDD2	3	17.00	17.00
VHT8_9SS1_CDD2	3	16.00	16.00
MCS0_STBC_SPEXP1	3	20.50	18.50
MCS1_STBC_SPEXP1	3	20.50	18.50
MCS2_STBC_SPEXP1	3	20.50	18.50
MCS3_STBC_SPEXP1	3	20.50	18.50
MCS4_STBC_SPEXP1	3	19.50	18.50
MCS5_STBC_SPEXP1	3	18.50	18.50
MCS6_STBC_SPEXP1	3	17.50	17.50
MCS7_STBC_SPEXP1	3	17.00	17.00
VHT8_9SS1_STBC_SPEXP1	3	16.00	16.00
MCS8_SPEXP1	3	20.50	18.50
MCS9_SPEXP1	3	20.50	18.50
MCS10_SPEXP1	3	20.50	18.50
MCS11_SPEXP1	3	20.50	18.50
MCS12_SPEXP1	3	19.50	18.50
MCS13_SPEXP1	3	18.50	18.50
MCS14_SPEXP1	3	17.50	17.50
MCS15_SPEXP1	3	17.00	17.00
VHT8_9SS2_SPEXP1	3	16.00	16.00
MCS16	3	20.50	18.50
MCS17	3	20.50	18.50

MCS18	3	20.50	18.50
MCS19	3	20.50	18.50
MCS20	3	19.50	18.50
MCS21	3	18.50	18.50
MCS22	3	17.50	17.50
MCS23	3	17.00	17.00
VHT8_9SS3	3	16.00	16.00
OFDM6_TXBF1	2	20.50	18.50
OFDM9_TXBF1	2	20.50	18.50
OFDM12_TXBF1	2	20.50	18.50
OFDM18_TXBF1	2	20.50	18.50
OFDM24_TXBF1	2	20.50	18.50
OFDM36_TXBF1	2	19.50	18.50
OFDM48_TXBF1	2	18.50	18.50
OFDM54_TXBF1	2	17.50	17.50
MCS0_TXBF1	2	20.50	18.50
MCS1_TXBF1	2	20.50	18.50
MCS2_TXBF1	2	20.50	18.50
MCS3_TXBF1	2	20.50	18.50
MCS4_TXBF1	2	19.50	18.50
MCS5_TXBF1	2	18.50	18.50
MCS6_TXBF1	2	17.50	17.50
MCS7_TXBF1	2	17.00	17.00
VHT8_9SS1_TXBF1	2	16.00	16.00
MCS8_TXBF0	2	20.50	18.50
MCS9_TXBF0	2	20.50	18.50
MCS10_TXBF0	2	20.50	18.50
MCS11_TXBF0	2	20.50	18.50
MCS12_TXBF0	2	19.50	18.50
MCS13_TXBF0	2	18.50	18.50
MCS14_TXBF0	2	17.50	17.50
MCS15_TXBF0	2	17.00	17.00
OFDM6_TXBF2	3	20.50	18.50
OFDM9_TXBF2	3	20.50	18.50
OFDM12_TXBF2	3	20.50	18.50
OFDM18_TXBF2	3	20.50	18.50
OFDM24_TXBF2	3	20.50	18.50
OFDM36_TXBF2	3	19.50	18.50
OFDM48_TXBF2	3	18.50	18.50
OFDM54_TXBF2	3	17.50	17.50
MCS0_TXBF2	3	20.50	18.50
MCS1_TXBF2	3	20.50	18.50
MCS2_TXBF2	3	20.50	18.50
MCS3_TXBF2	3	20.50	18.50
MCS4_TXBF2	3	19.50	18.50
MCS5_TXBF2	3	18.50	18.50
MCS6_TXBF2	3	17.50	17.50
MCS7_TXBF2	3	17.00	17.00
VHT8_9SS1_TXBF2	3	16.00	16.00
MCS8_TXBF1	3	20.50	18.50
MCS9_TXBF1	3	20.50	18.50
MCS10_TXBF1	3	20.50	18.50
MCS11_TXBF1	3	20.50	18.50
MCS12_TXBF1	3	19.50	18.50
MCS13_TXBF1	3	18.50	18.50
MCS14_TXBF1	3	17.50	17.50
MCS15_TXBF1	3	17.00	17.00
VHT8_9SS2_TXBF1	3	16.00	16.00

MCS16_TXBF0	3	20.50	18.50
MCS17_TXBF0	3	20.50	18.50
MCS18_TXBF0	3	20.50	18.50
MCS19_TXBF0	3	20.50	18.50
MCS20_TXBF0	3	19.50	18.50
MCS21_TXBF0	3	18.50	18.50
MCS22_TXBF0	3	17.50	17.50
MCS23_TXBF0	3	17.00	17.00

Power Targets:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM6	1	19.00	17.00
OFDM9	1	19.00	17.00
OFDM12	1	19.00	17.00
OFDM18	1	19.00	17.00
OFDM24	1	19.00	17.00
OFDM36	1	18.00	17.00
OFDM48	1	17.00	17.00
OFDM54	1	16.00	16.00
MCS0	1	19.00	17.00
MCS1	1	19.00	17.00
MCS2	1	19.00	17.00
MCS3	1	19.00	17.00
MCS4	1	18.00	17.00
MCS5	1	17.00	17.00
MCS6	1	16.00	16.00
MCS7	1	15.50	15.50
VHT8_9SS1	1	14.50	14.50
DSSS_MULTI1	2	-	-
OFDM6_CDD1	2	19.00	17.00
OFDM9_CDD1	2	19.00	17.00
OFDM12_CDD1	2	19.00	17.00
OFDM18_CDD1	2	19.00	17.00
OFDM24_CDD1	2	19.00	17.00
OFDM36_CDD1	2	18.00	17.00
OFDM48_CDD1	2	17.00	17.00
OFDM54_CDD1	2	16.00	16.00
MCS0_CDD1	2	19.00	17.00
MCS1_CDD1	2	19.00	17.00
MCS2_CDD1	2	19.00	17.00
MCS3_CDD1	2	19.00	17.00
MCS4_CDD1	2	18.00	17.00
MCS5_CDD1	2	17.00	17.00
MCS6_CDD1	2	16.00	16.00
MCS7_CDD1	2	15.50	15.50
VHT8_9SS1_CDD1	2	14.50	14.50
MCS0_STBC	2	19.00	17.00
MCS1_STBC	2	19.00	17.00
MCS2_STBC	2	19.00	17.00
MCS3_STBC	2	19.00	17.00
MCS4_STBC	2	18.00	17.00
MCS5_STBC	2	17.00	17.00
MCS6_STBC	2	16.00	16.00
MCS7_STBC	2	15.50	15.50
VHT8_9SS1_STBC	2	14.50	14.50
MCS8	2	19.00	17.00
MCS9	2	19.00	17.00

MCS10	2	19.00	17.00
MCS11	2	19.00	17.00
MCS12	2	18.00	17.00
MCS13	2	17.00	17.00
MCS14	2	16.00	16.00
MCS15	2	15.50	15.50
VHT8_9SS2	2	14.50	14.50
DSSS_MULTI2	3	-	-
OFDM_CDD2	3	-	-
MCS0_7_CDD2	3	-	-
VHT8_9SS1_CDD2	3	-	-
MCS0_7_STBC_SPEXP1	3	-	-
VHT8_9SS1_STBC_SPEXP1	3	-	-
MCS8_15_SPEXP1	3	-	-
VHT8_9SS2_SPEXP1	3	-	-
MCS16_23	3	-	-
VHT8_9SS3	3	-	-
OFDM6_TXBF1	2	19.00	17.00
OFDM9_TXBF1	2	19.00	17.00
OFDM12_TXBF1	2	19.00	17.00
OFDM18_TXBF1	2	19.00	17.00
OFDM24_TXBF1	2	19.00	17.00
OFDM36_TXBF1	2	18.00	17.00
OFDM48_TXBF1	2	17.00	17.00
OFDM54_TXBF1	2	16.00	16.00
MCS0_TXBF1	2	19.00	17.00
MCS1_TXBF1	2	19.00	17.00
MCS2_TXBF1	2	19.00	17.00
MCS3_TXBF1	2	19.00	17.00
MCS4_TXBF1	2	18.00	17.00
MCS5_TXBF1	2	17.00	17.00
MCS6_TXBF1	2	16.00	16.00
MCS7_TXBF1	2	15.50	15.50
VHT8_9SS1_TXBF1	2	14.50	14.50
MCS8_TXBF0	2	19.00	17.00
MCS9_TXBF0	2	19.00	17.00
MCS10_TXBF0	2	19.00	17.00
MCS11_TXBF0	2	19.00	17.00
MCS12_TXBF0	2	18.00	17.00
MCS13_TXBF0	2	17.00	17.00
MCS14_TXBF0	2	16.00	16.00
MCS15_TXBF0	2	15.50	15.50
OFDM_TXBF2	3	-	-
MCS0_7_TXBF2	3	-	-
VHT8_9SS1_TXBF2	3	-	-
MCS8_15_TXBF1	3	-	-
VHT8_9SS2_TXBF1	3	-	-
MCS16_23_TXBF0	3	-	-

Maximum Power Target among all rates: 19.00 19.00 19.00
Last est. power : 17.00 17.00 0.00
Power Target for the current rate : 17.00 17.00 -
Last adjusted est. power : 19.00 19.00 0.00

==========
==========CH159==========
==========
Power Control: On, HW

```
Current Channel:          157l
BSS Channel:              (null)
BSS Local Max:            30.0 dBm
BSS Local Constraint:     0.0 dB
Channel Width:            40MHz
User Target:              31.75 dBm
SROM Antgain 2G:          0.0 dB / 0.0 dB
SROM Antgain 5G:          4.25 dB / 0.0 dB
SAR:                      -
Open loop:                Off
Current rate:             [MCS0_CDD1] vht mcs 0 Nss 1 Tx Exp 1 BW 40 ldpc

Power Adjust:             abs 0.0 dB (disabled)

NOTE: Regulatory Limits, board limits and target power are for core 0
      Use "wl curpower_display_core" to select another one
NOTE: Regulatory limit is conducted -> Antenna gain is ignored

Regulatory Limits:
Rate                      Chains 20in40 40MHz
DSSS                      1      -      -
OFDM                      1      21.50  21.50
MCS0_7                    1      21.50  21.50
VHT8_9SS1                 1      21.50  21.50
DSSS_MULTI1               2      -      -
OFDM_CDD1                 2      21.50  21.50
MCS0_7_CDD1               2      21.50  21.50
VHT8_9SS1_CDD1            2      21.50  21.50
MCS0_7_STBC               2      21.50  21.50
VHT8_9SS1_STBC            2      21.50  21.50
MCS8_15                   2      21.50  21.50
VHT8_9SS2                 2      21.50  21.50
DSSS_MULTI2               3      -      -
OFDM_CDD2                 3      -      -
MCS0_7_CDD2               3      -      -
VHT8_9SS1_CDD2            3      -      -
MCS0_7_STBC_SPEXP1        3      -      -
VHT8_9SS1_STBC_SPEXP1     3      -      -
MCS8_15_SPEXP1            3      -      -
VHT8_9SS2_SPEXP1          3      -      -
MCS16_23                  3      -      -
VHT8_9SS3                 3      -      -
OFDM_TXBF1                2      21.50  21.50
MCS0_7_TXBF1              2      21.50  21.50
VHT8_9SS1_TXBF1           2      21.50  21.50
MCS8_15_TXBF0             2      21.50  21.50
OFDM_TXBF2                3      -      -
MCS0_7_TXBF2              3      -      -
VHT8_9SS1_TXBF2           3      -      -
MCS8_15_TXBF1             3      -      -
VHT8_9SS2_TXBF1           3      -      -
MCS16_23_TXBF0            3      -      -

Core Index:               0
Board Limits:
Rate                      Chains 20in40 40MHz
DSSS                      1      -      -
OFDM6                     1      20.50  18.50
```

OFDM9	1	20.50	18.50
OFDM12	1	20.50	18.50
OFDM18	1	20.50	18.50
OFDM24	1	20.50	18.50
OFDM36	1	19.50	18.50
OFDM48	1	18.50	18.50
OFDM54	1	17.50	17.50
MCS0	1	20.50	18.50
MCS1	1	20.50	18.50
MCS2	1	20.50	18.50
MCS3	1	20.50	18.50
MCS4	1	19.50	18.50
MCS5	1	18.50	18.50
MCS6	1	17.50	17.50
MCS7	1	17.00	17.00
VHT8_9SS1	1	16.00	16.00
DSSS_MULTI1	2	-	-
OFDM6_CDD1	2	20.50	18.50
OFDM9_CDD1	2	20.50	18.50
OFDM12_CDD1	2	20.50	18.50
OFDM18_CDD1	2	20.50	18.50
OFDM24_CDD1	2	20.50	18.50
OFDM36_CDD1	2	19.50	18.50
OFDM48_CDD1	2	18.50	18.50
OFDM54_CDD1	2	17.50	17.50
MCS0_CDD1	2	20.50	18.50
MCS1_CDD1	2	20.50	18.50
MCS2_CDD1	2	20.50	18.50
MCS3_CDD1	2	20.50	18.50
MCS4_CDD1	2	19.50	18.50
MCS5_CDD1	2	18.50	18.50
MCS6_CDD1	2	17.50	17.50
MCS7_CDD1	2	17.00	17.00
VHT8_9SS1_CDD1	2	16.00	16.00
MCS0_STBC	2	20.50	18.50
MCS1_STBC	2	20.50	18.50
MCS2_STBC	2	20.50	18.50
MCS3_STBC	2	20.50	18.50
MCS4_STBC	2	19.50	18.50
MCS5_STBC	2	18.50	18.50
MCS6_STBC	2	17.50	17.50
MCS7_STBC	2	17.00	17.00
VHT8_9SS1_STBC	2	16.00	16.00
MCS8	2	20.50	18.50
MCS9	2	20.50	18.50
MCS10	2	20.50	18.50
MCS11	2	20.50	18.50
MCS12	2	19.50	18.50
MCS13	2	18.50	18.50
MCS14	2	17.50	17.50
MCS15	2	17.00	17.00
VHT8_9SS2	2	16.00	16.00
DSSS_MULTI2	3	-	-
OFDM6_CDD2	3	20.50	18.50
OFDM9_CDD2	3	20.50	18.50
OFDM12_CDD2	3	20.50	18.50
OFDM18_CDD2	3	20.50	18.50
OFDM24_CDD2	3	20.50	18.50

OFDM36_CDD2	3	19.50	18.50
OFDM48_CDD2	3	18.50	18.50
OFDM54_CDD2	3	17.50	17.50
MCS0_CDD2	3	20.50	18.50
MCS1_CDD2	3	20.50	18.50
MCS2_CDD2	3	20.50	18.50
MCS3_CDD2	3	20.50	18.50
MCS4_CDD2	3	19.50	18.50
MCS5_CDD2	3	18.50	18.50
MCS6_CDD2	3	17.50	17.50
MCS7_CDD2	3	17.00	17.00
VHT8_9SS1_CDD2	3	16.00	16.00
MCS0_STBC_SPEXP1	3	20.50	18.50
MCS1_STBC_SPEXP1	3	20.50	18.50
MCS2_STBC_SPEXP1	3	20.50	18.50
MCS3_STBC_SPEXP1	3	20.50	18.50
MCS4_STBC_SPEXP1	3	19.50	18.50
MCS5_STBC_SPEXP1	3	18.50	18.50
MCS6_STBC_SPEXP1	3	17.50	17.50
MCS7_STBC_SPEXP1	3	17.00	17.00
VHT8_9SS1_STBC_SPEXP1	3	16.00	16.00
MCS8_SPEXP1	3	20.50	18.50
MCS9_SPEXP1	3	20.50	18.50
MCS10_SPEXP1	3	20.50	18.50
MCS11_SPEXP1	3	20.50	18.50
MCS12_SPEXP1	3	19.50	18.50
MCS13_SPEXP1	3	18.50	18.50
MCS14_SPEXP1	3	17.50	17.50
MCS15_SPEXP1	3	17.00	17.00
VHT8_9SS2_SPEXP1	3	16.00	16.00
MCS16	3	20.50	18.50
MCS17	3	20.50	18.50
MCS18	3	20.50	18.50
MCS19	3	20.50	18.50
MCS20	3	19.50	18.50
MCS21	3	18.50	18.50
MCS22	3	17.50	17.50
MCS23	3	17.00	17.00
VHT8_9SS3	3	16.00	16.00
OFDM6_TXBF1	2	20.50	18.50
OFDM9_TXBF1	2	20.50	18.50
OFDM12_TXBF1	2	20.50	18.50
OFDM18_TXBF1	2	20.50	18.50
OFDM24_TXBF1	2	20.50	18.50
OFDM36_TXBF1	2	19.50	18.50
OFDM48_TXBF1	2	18.50	18.50
OFDM54_TXBF1	2	17.50	17.50
MCS0_TXBF1	2	20.50	18.50
MCS1_TXBF1	2	20.50	18.50
MCS2_TXBF1	2	20.50	18.50
MCS3_TXBF1	2	20.50	18.50
MCS4_TXBF1	2	19.50	18.50
MCS5_TXBF1	2	18.50	18.50
MCS6_TXBF1	2	17.50	17.50
MCS7_TXBF1	2	17.00	17.00
VHT8_9SS1_TXBF1	2	16.00	16.00
MCS8_TXBF0	2	20.50	18.50
MCS9_TXBF0	2	20.50	18.50

MCS10_TXBF0	2	20.50	18.50
MCS11_TXBF0	2	20.50	18.50
MCS12_TXBF0	2	19.50	18.50
MCS13_TXBF0	2	18.50	18.50
MCS14_TXBF0	2	17.50	17.50
MCS15_TXBF0	2	17.00	17.00
OFDM6_TXBF2	3	20.50	18.50
OFDM9_TXBF2	3	20.50	18.50
OFDM12_TXBF2	3	20.50	18.50
OFDM18_TXBF2	3	20.50	18.50
OFDM24_TXBF2	3	20.50	18.50
OFDM36_TXBF2	3	19.50	18.50
OFDM48_TXBF2	3	18.50	18.50
OFDM54_TXBF2	3	17.50	17.50
MCS0_TXBF2	3	20.50	18.50
MCS1_TXBF2	3	20.50	18.50
MCS2_TXBF2	3	20.50	18.50
MCS3_TXBF2	3	20.50	18.50
MCS4_TXBF2	3	19.50	18.50
MCS5_TXBF2	3	18.50	18.50
MCS6_TXBF2	3	17.50	17.50
MCS7_TXBF2	3	17.00	17.00
VHT8_9SS1_TXBF2	3	16.00	16.00
MCS8_TXBF1	3	20.50	18.50
MCS9_TXBF1	3	20.50	18.50
MCS10_TXBF1	3	20.50	18.50
MCS11_TXBF1	3	20.50	18.50
MCS12_TXBF1	3	19.50	18.50
MCS13_TXBF1	3	18.50	18.50
MCS14_TXBF1	3	17.50	17.50
MCS15_TXBF1	3	17.00	17.00
VHT8_9SS2_TXBF1	3	16.00	16.00
MCS16_TXBF0	3	20.50	18.50
MCS17_TXBF0	3	20.50	18.50
MCS18_TXBF0	3	20.50	18.50
MCS19_TXBF0	3	20.50	18.50
MCS20_TXBF0	3	19.50	18.50
MCS21_TXBF0	3	18.50	18.50
MCS22_TXBF0	3	17.50	17.50
MCS23_TXBF0	3	17.00	17.00

Power Targets:

Rate	Chains	20in40	40MHz
DSSS	1	-	-
OFDM6	1	19.00	17.00
OFDM9	1	19.00	17.00
OFDM12	1	19.00	17.00
OFDM18	1	19.00	17.00
OFDM24	1	19.00	17.00
OFDM36	1	18.00	17.00
OFDM48	1	17.00	17.00
OFDM54	1	16.00	16.00
MCS0	1	19.00	17.00
MCS1	1	19.00	17.00
MCS2	1	19.00	17.00
MCS3	1	19.00	17.00
MCS4	1	18.00	17.00
MCS5	1	17.00	17.00

MCS6	1	16.00	16.00
MCS7	1	15.50	15.50
VHT8_9SS1	1	14.50	14.50
DSSS_MULTI1	2	-	-
OFDM6_CDD1	2	19.00	17.00
OFDM9_CDD1	2	19.00	17.00
OFDM12_CDD1	2	19.00	17.00
OFDM18_CDD1	2	19.00	17.00
OFDM24_CDD1	2	19.00	17.00
OFDM36_CDD1	2	18.00	17.00
OFDM48_CDD1	2	17.00	17.00
OFDM54_CDD1	2	16.00	16.00
MCS0_CDD1	2	19.00	17.00
MCS1_CDD1	2	19.00	17.00
MCS2_CDD1	2	19.00	17.00
MCS3_CDD1	2	19.00	17.00
MCS4_CDD1	2	18.00	17.00
MCS5_CDD1	2	17.00	17.00
MCS6_CDD1	2	16.00	16.00
MCS7_CDD1	2	15.50	15.50
VHT8_9SS1_CDD1	2	14.50	14.50
MCS0_STBC	2	19.00	17.00
MCS1_STBC	2	19.00	17.00
MCS2_STBC	2	19.00	17.00
MCS3_STBC	2	19.00	17.00
MCS4_STBC	2	18.00	17.00
MCS5_STBC	2	17.00	17.00
MCS6_STBC	2	16.00	16.00
MCS7_STBC	2	15.50	15.50
VHT8_9SS1_STBC	2	14.50	14.50
MCS8	2	19.00	17.00
MCS9	2	19.00	17.00
MCS10	2	19.00	17.00
MCS11	2	19.00	17.00
MCS12	2	18.00	17.00
MCS13	2	17.00	17.00
MCS14	2	16.00	16.00
MCS15	2	15.50	15.50
VHT8_9SS2	2	14.50	14.50
DSSS_MULTI2	3	-	-
OFDM_CDD2	3	-	-
MCS0_7_CDD2	3	-	-
VHT8_9SS1_CDD2	3	-	-
MCS0_7_STBC_SPEXP1	3	-	-
VHT8_9SS1_STBC_SPEXP1	3	-	-
MCS8_15_SPEXP1	3	-	-
VHT8_9SS2_SPEXP1	3	-	-
MCS16_23	3	-	-
VHT8_9SS3	3	-	-
OFDM6_TXBF1	2	19.00	17.00
OFDM9_TXBF1	2	19.00	17.00
OFDM12_TXBF1	2	19.00	17.00
OFDM18_TXBF1	2	19.00	17.00
OFDM24_TXBF1	2	19.00	17.00
OFDM36_TXBF1	2	18.00	17.00
OFDM48_TXBF1	2	17.00	17.00
OFDM54_TXBF1	2	16.00	16.00
MCS0_TXBF1	2	19.00	17.00

MCS1_TXBF1	2	19.00	17.00
MCS2_TXBF1	2	19.00	17.00
MCS3_TXBF1	2	19.00	17.00
MCS4_TXBF1	2	18.00	17.00
MCS5_TXBF1	2	17.00	17.00
MCS6_TXBF1	2	16.00	16.00
MCS7_TXBF1	2	15.50	15.50
VHT8_9SS1_TXBF1	2	14.50	14.50
MCS8_TXBF0	2	19.00	17.00
MCS9_TXBF0	2	19.00	17.00
MCS10_TXBF0	2	19.00	17.00
MCS11_TXBF0	2	19.00	17.00
MCS12_TXBF0	2	18.00	17.00
MCS13_TXBF0	2	17.00	17.00
MCS14_TXBF0	2	16.00	16.00
MCS15_TXBF0	2	15.50	15.50
OFDM_TXBF2	3	-	-
MCS0_7_TXBF2	3	-	-
VHT8_9SS1_TXBF2	3	-	-
MCS8_15_TXBF1	3	-	-
VHT8_9SS2_TXBF1	3	-	-
MCS16_23_TXBF0	3	-	-

Maximum Power Target among all rates: 19.00 19.00 19.00
Last est. power : 17.00 17.00 0.00
Power Target for the current rate : 17.00 17.00 -
Last adjusted est. power : 19.00 19.00 0.00

Appendix B. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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