



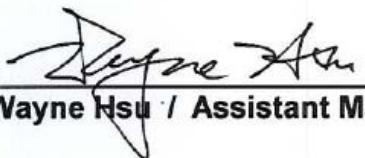
# FCC Test Report

**Equipment** : 11ac Dual Band concurrent Wireless Router  
**Brand Name** : EDIMAX  
**Model No.** : BR-6208AC / GR-208AC  
**FCC ID** : NDD9562081312  
**Standard** : 47 CFR FCC Part 15.247  
**Operating Band** : 5725 MHz – 5850 MHz  
**Equipment Class** : DTS  
**Applicant** : EDIMAX TECHNOLOGY CO., LTD.  
**Manufacturer** : No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park,  
New Taipei City, Taiwan  
**Multiple Listing** : Please refer to section 1.1.1

The product sample received on Nov. 13, 2013 and completely tested on Dec. 11, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

  
Wayne Hsu / Assistant Manager





## Table of Contents

<b>1</b>	<b>GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1	Information.....	5
1.2	Product Details .....	8
1.3	Accessories .....	8
1.4	Support Equipment.....	8
1.5	Testing Applied Standards .....	8
1.6	Testing Location Information.....	8
1.7	Measurement Uncertainty .....	9
<b>2</b>	<b>TEST CONFIGURATION OF EUT .....</b>	<b>10</b>
2.1	The Worst Case Modulation Configuration .....	10
2.2	The Worst Case Power Setting Parameter .....	10
2.3	The Worst Case Measurement Configuration.....	11
2.4	Test Setup Diagram .....	12
<b>3</b>	<b>TRANSMITTER TEST RESULT .....</b>	<b>15</b>
3.1	AC Power-line Conducted Emissions .....	15
3.2	6dB Bandwidth .....	20
3.3	RF Output Power.....	22
3.4	Power Spectral Density .....	26
3.5	Transmitter Bandedge Emissions .....	28
3.6	Transmitter Unwanted Emissions.....	32
<b>4</b>	<b>TEST EQUIPMENT AND CALIBRATION DATA .....</b>	<b>95</b>

### APPENDIX A. TEST PHOTOS

### APPENDIX B. PHOTOGRAPHS OF EUT



## Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.3	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 4.763MHz 35.14 (Margin 10.86dB) - AV 39.95 (Margin 16.05dB) - QP	FCC 15.207	Complied
3.2	15.247(a)	Bandwidth	6dB Bandwidth [MHz] n(HT20):16.42 n(HT40):36.44 ac(VHT20):17.62 ac(VHT40):36.40 ac(VHT80): 76.32	≥500kHz	Complied
3.3	15.247(b)	RF Output Power (Maximum Peak Conducted Output Power)	Power [dBm]:24.72	Power [dBm]:30	Complied
3.4	15.247(d)	Power Spectral Density	PSD [dBm/100kHz]:-10.61	PSD [dBm/MHz]:17 replace 8dBm/3kHz	Complied
3.5	15.247(c)	Transmitter Bandedge Emissions	Non-Restricted Bands: 5723.500MHz: 24.61dB	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied
3.6	15.247(c)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 11570MHz 62.39 (Margin 1.15dB) - AV 76.74 (Margin 6.80dB) - PK	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied



## Revision History



## 1 General Description

### 1.1 Information

#### 1.1.1 Table for Multiple Listing

Brand and models that are exactly the same EUT, products with different models only because of market segmentation.

NO.	Brand Name	Model Name
1	Edimax	BR-6208AC,GR-208AC
2	SMARTLINK	DG-BR4400AC

#### 1.1.2 RF General Information

RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)	Co-location
5725-5850	a	5745-5825	149-165 [5]	1	23.64	Yes
5725-5850	n(HT20)	5745-5825	149-165 [5]	1	23.57	Yes
5725-5850	n(HT40)	5755-5795	151-159 [2]	1	24.70	Yes
5725-5850	ac(VHT20)	5745-5825	149-165 [5]	1	23.08	Yes
5725-5850	ac(VHT40)	5755-5795	151-159 [2]	1	24.72	Yes
5725-5850	ac(VHT80)	5775	155 [1]	1	24.23	Yes

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.  
Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.  
Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.  
Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

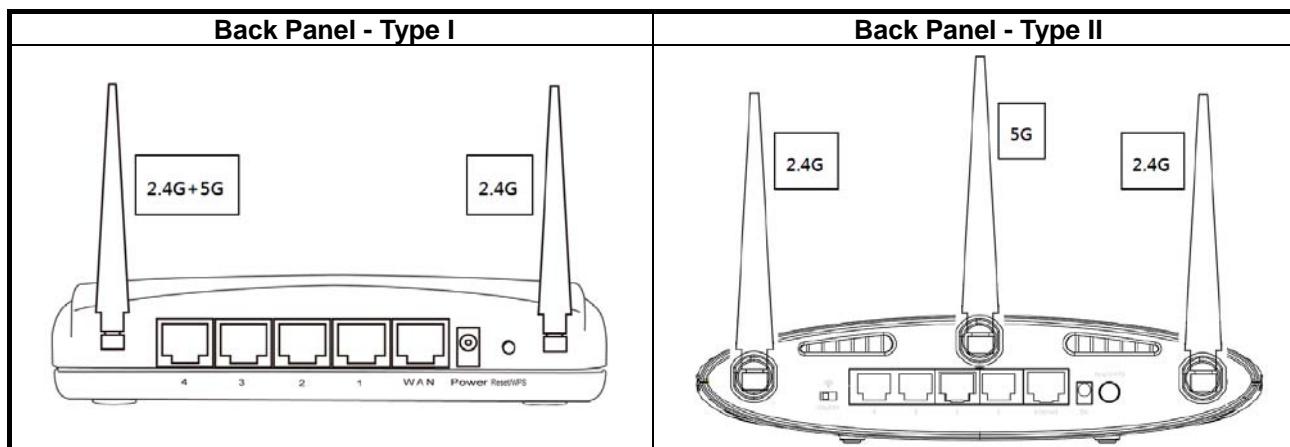


### 1.1.3 Antenna Information

Antenna Category	
<input checked="" type="checkbox"/>	External antenna (dedicated antennas)
	<input checked="" type="checkbox"/> Single power level with corresponding antenna(s).
	<input type="checkbox"/> Multiple power level and corresponding antenna(s).

Antenna General Information					
No.	Antenna Port	Ant. Cat.	Ant. Type	Gain (dBi)	EUT Model Name
1	2	External	Dipole	5.38	BR-6208AC / GR-208AC
2	3	External	Dipole	5.40	BR-6208AC

Note: The RF Conducted performed the worst configuration for higher gain was test in final test report.



### 1.1.4 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	<input type="checkbox"/> Production ; <input type="checkbox"/> Pre-Production ; <input checked="" type="checkbox"/> Prototype
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.:
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.:
<input type="checkbox"/>	Other:



### 1.1.5 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle		
Test Signal Duty Cycle (x)	N <sub>TX</sub>	Power Duty Factor [dB] – (10 log 1/x)
<input type="checkbox"/> Operated normally mode for worst duty cycle		
<input checked="" type="checkbox"/> Operated test mode for worst duty cycle		
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11a	1	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11n (HT20)	1	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11n (HT40)	1	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11ac (VHT20)	1	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11ac (VHT40)	1	0.00
<input checked="" type="checkbox"/> 100.00% - IEEE 802.11ac (VHT80)	1	0.00

### 1.1.6 EUT Operational Condition

Supply Voltage	<input checked="" type="checkbox"/> AC mains	<input type="checkbox"/> DC	<input type="checkbox"/> System
Type of DC Source	<input type="checkbox"/> Internal DC supply	<input checked="" type="checkbox"/> External DC adapter	<input type="checkbox"/> Battery



## 1.2 Product Details

The equipment is 11ac Dual Band concurrent Wireless Router. There are two types of this product. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

## 1.3 Accessories

Accessories Information				
AC Adapter	Brand Name	DVE	Model Name	DSA-9PFB-05 FUS 050150
	Power Rating	I/P: 100-240V ~ 50/60Hz 0.3A; O/P: 5V---1.5A		

Reminder: Regarding to more detail and other information, please refer to user manual.

## 1.4 Support Equipment

Support Equipment			
No.	Equipment	Brand Name	Model Name
1	Notebook	DELL	E5530

## 1.5 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2009
- ♦ FCC KDB 558074
- ♦ FCC KDB 789033
- ♦ FCC KDB 644545 D01
- ♦ FCC KDB 644545 D02
- ♦ FCC KDB 662911

## 1.6 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.	
	TEL :	886-3-327-3456	FAX : 886-3-327-0973
Test Condition		Test Site No.	Test Engineer
AC Conduction		CO04-HY	Zeus
RF Conducted		TH01-HY	Ian
Radiated Emission		03CH02-HY	Daniel
Test Environment			
23°C / 50%			
24.6°C / 66%			
21.8°C / 52%			



## 1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty		
Test Item	Uncertainty	
AC power-line conducted emissions	$\pm 2.26$ dB	
Emission bandwidth, 6dB bandwidth	$\pm 1.42$ %	
RF output power, conducted	$\pm 0.63$ dB	
Power density, conducted	$\pm 0.81$ dB	
Unwanted emissions, conducted	9 – 150 kHz	$\pm 0.38$ dB
	0.15 – 30 MHz	$\pm 0.42$ dB
	30 – 1000 MHz	$\pm 0.51$ dB
	1 – 18 GHz	$\pm 0.67$ dB
	18 – 40 GHz	$\pm 0.83$ dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	$\pm 2.49$ dB
	0.15 – 30 MHz	$\pm 2.28$ dB
	30 – 1000 MHz	$\pm 2.56$ dB
	1 – 18 GHz	$\pm 3.59$ dB
	18 – 40 GHz	$\pm 3.82$ dB
	40 – 200 GHz	N/A
Temperature	$\pm 0.8$ °C	
Humidity	$\pm 3$ %	
DC and low frequency voltages	$\pm 3$ %	
Time	$\pm 1.42$ %	
Duty Cycle	$\pm 1.42$ %	



## 2 Test Configuration of EUT

### 2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	Transmit Chains (N <sub>TX</sub> )	Data Rate / MCS	Worst Data Rate / MCS
11a,6-54Mbps	1	6-54Mbps	6 Mbps
HT20,M0-7	1	M0-7	MCS 0
HT40,M0-7	1	M0-7	MCS 0
VHT20,M0-8	1	M0-8	MCS 0
VHT40,M0-9	1	M0-8	MCS 0
VHT80,M0-9	1	M0-9	MCS 0

### 2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5725-5850MHz band)							
Test Software Version	RTL819_2.3						
Modulation Mode	N <sub>TX</sub>	Test Frequency (MHz)					
		NCB: 20MHz		NCB: 40MHz		NCB: 80MHz	
		5745	5785	5825	5755	5795	5775
11a,6-54Mbps	1	41	40	53	-	-	-
HT20,M0-7	1	41	41	54	-	-	-
HT40,M0-7	1	-	-	-	56	56	-
VHT20,M0-8	1	41	41	54	-	-	-
VHT40,M0-9	1	-	-	-	56	56	-
VHT80,M0-9	1	-	-	-	-	-	56



## 2.3 The Worst Case Measurement Configuration

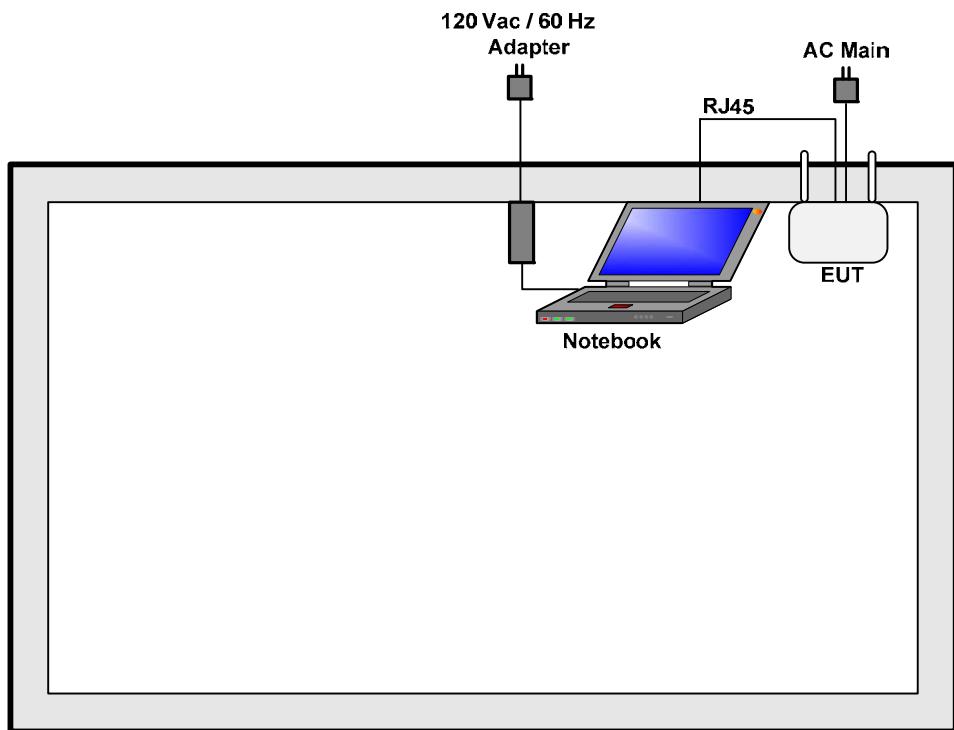
The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	Operating Mode Description
1	AC Power & Radio link (Model Name (BR-6208AC / GR-208AC))
2	AC Power & Radio link (Model Name (BR-6208AC))

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	RF Output Power, Power Spectral Density, 6 dB Bandwidth
<b>Test Condition</b>	Conducted measurement at transmit chains
<b>Modulation Mode</b>	11a, HT20, HT40, VHT20, VHT40, VHT80

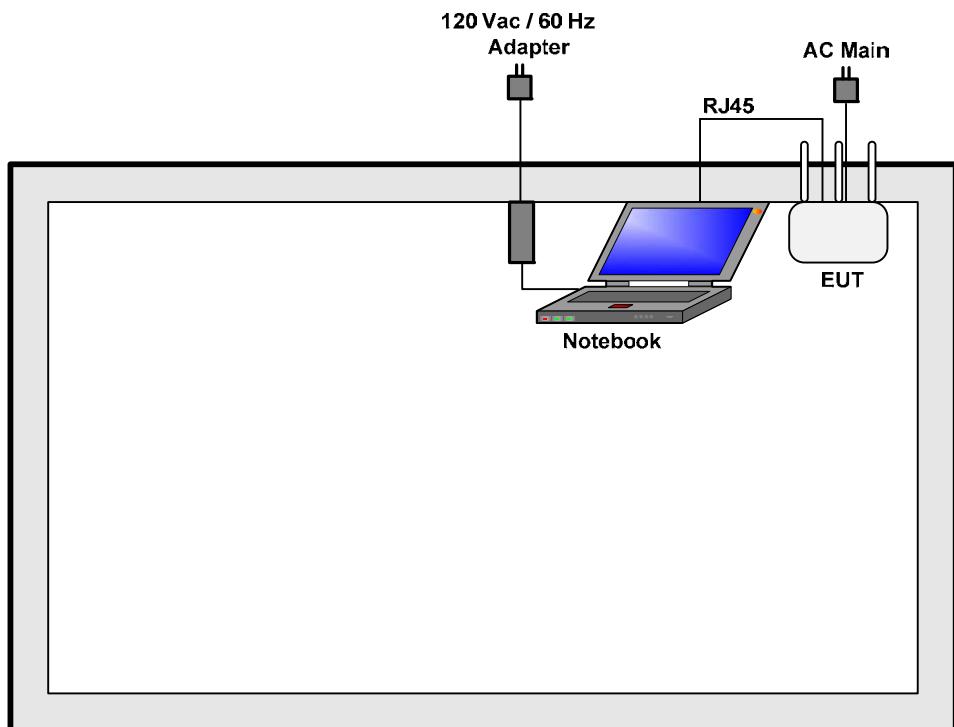
The Worst Case Mode for Following Conformance Tests							
<b>Tests Item</b>	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions						
<b>Test Condition</b>	Radiated measurement						
<b>User Position</b>	<input checked="" type="checkbox"/> EUT will be placed in fixed position. The worst planes is X. <input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. <input type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.						
<b>Operating Mode</b>	<input checked="" type="checkbox"/> 1. AC Power & Radio link Mode 1: Model Name (BR-6208AC / GR-208AC) Mode 2: Model Name (BR-6208AC)						
<b>Modulation Mode</b>	11a, HT20, HT40, VHT20, VHT40, VHT80						
<b>Orthogonal Planes of EUT</b>	<table border="1"><thead><tr><th>X Plane</th><th>Y Plane</th><th>Z Plane</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	X Plane	Y Plane	Z Plane			
X Plane	Y Plane	Z Plane					

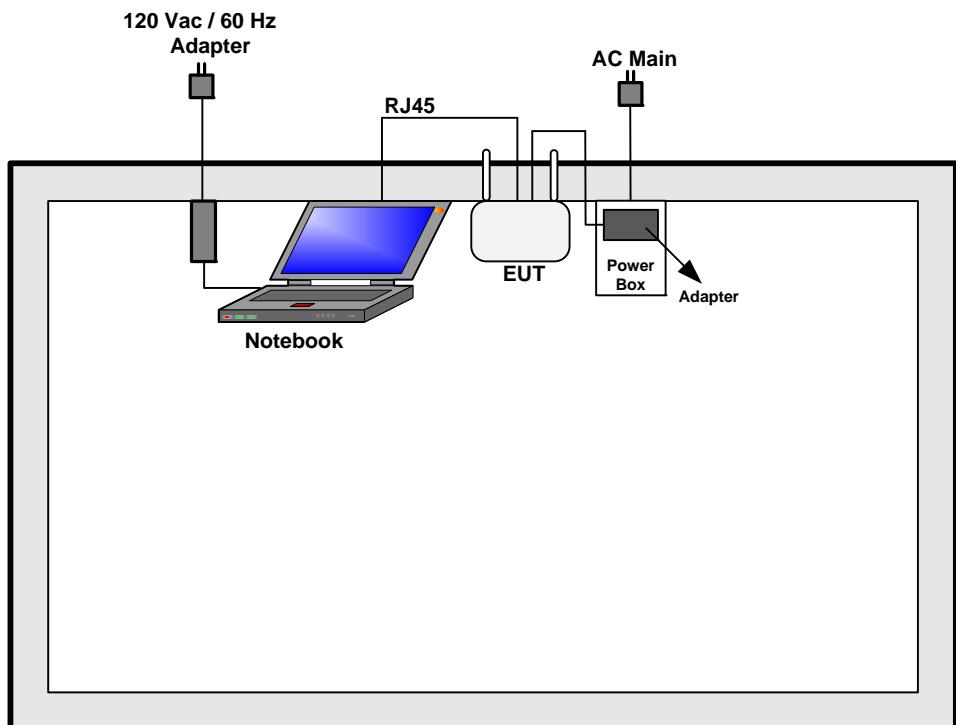
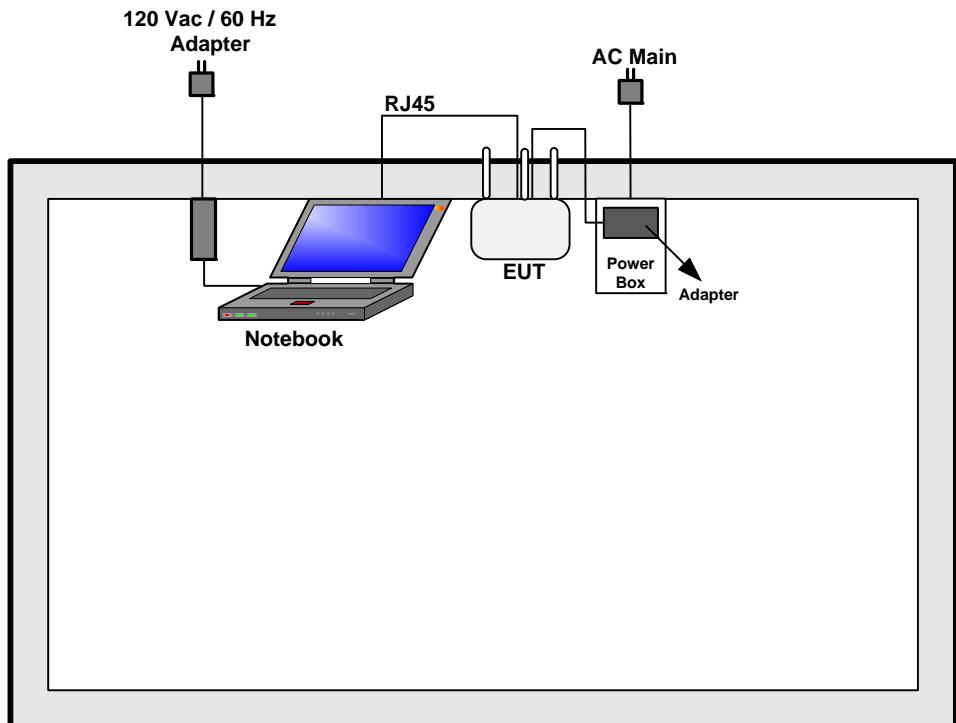
## 2.4 Test Setup Diagram

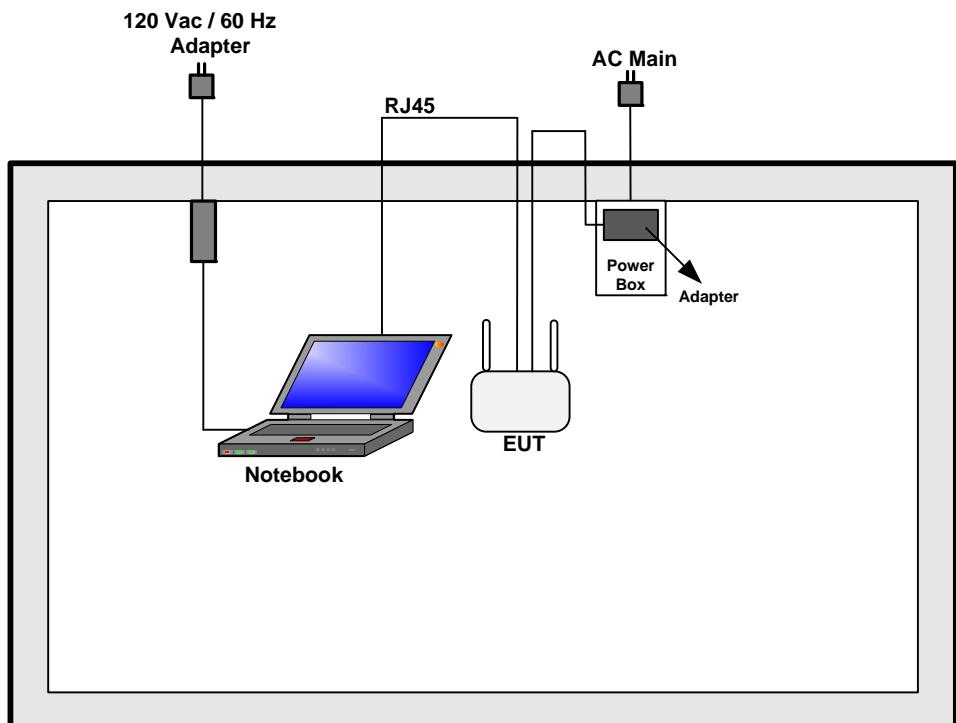
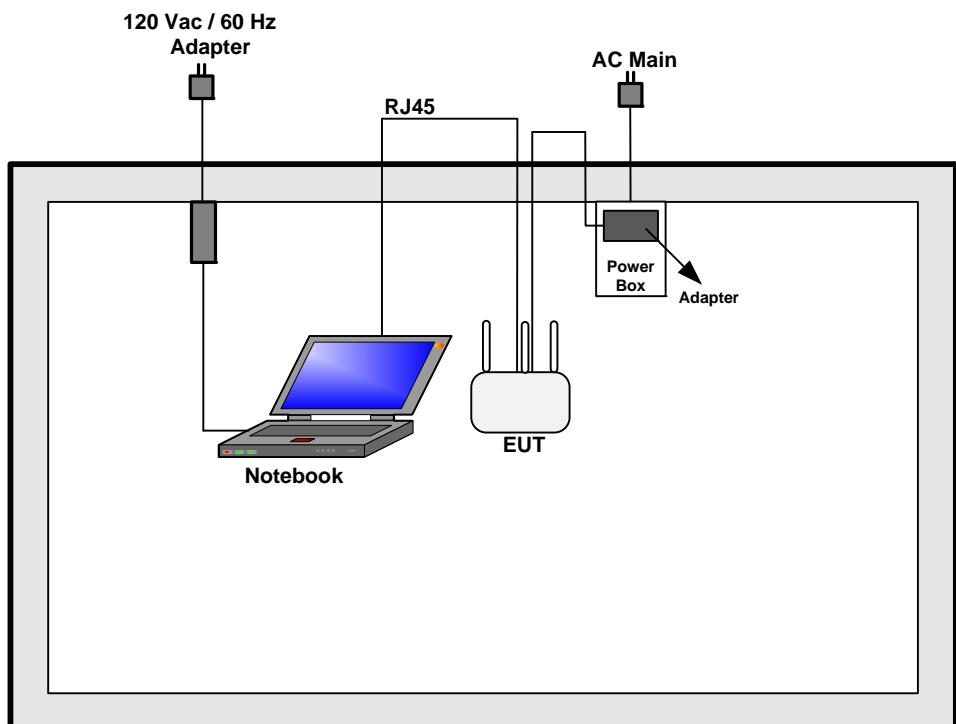
Test Setup Diagram - AC Line Conducted Emission Test (Mode 1)



Test Setup Diagram - AC Line Conducted Emission Test (Mode 2)



**Test Setup Diagram - Radiated Below 1GHz Test (Mode 1)****Test Setup Diagram - Radiated Below 1GHz Test (Mode 2)**

**Test Setup Diagram - Radiated Above 1GHz Test (Mode 1)****Test Setup Diagram - Radiated Above 1GHz Test (Mode 2)**

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

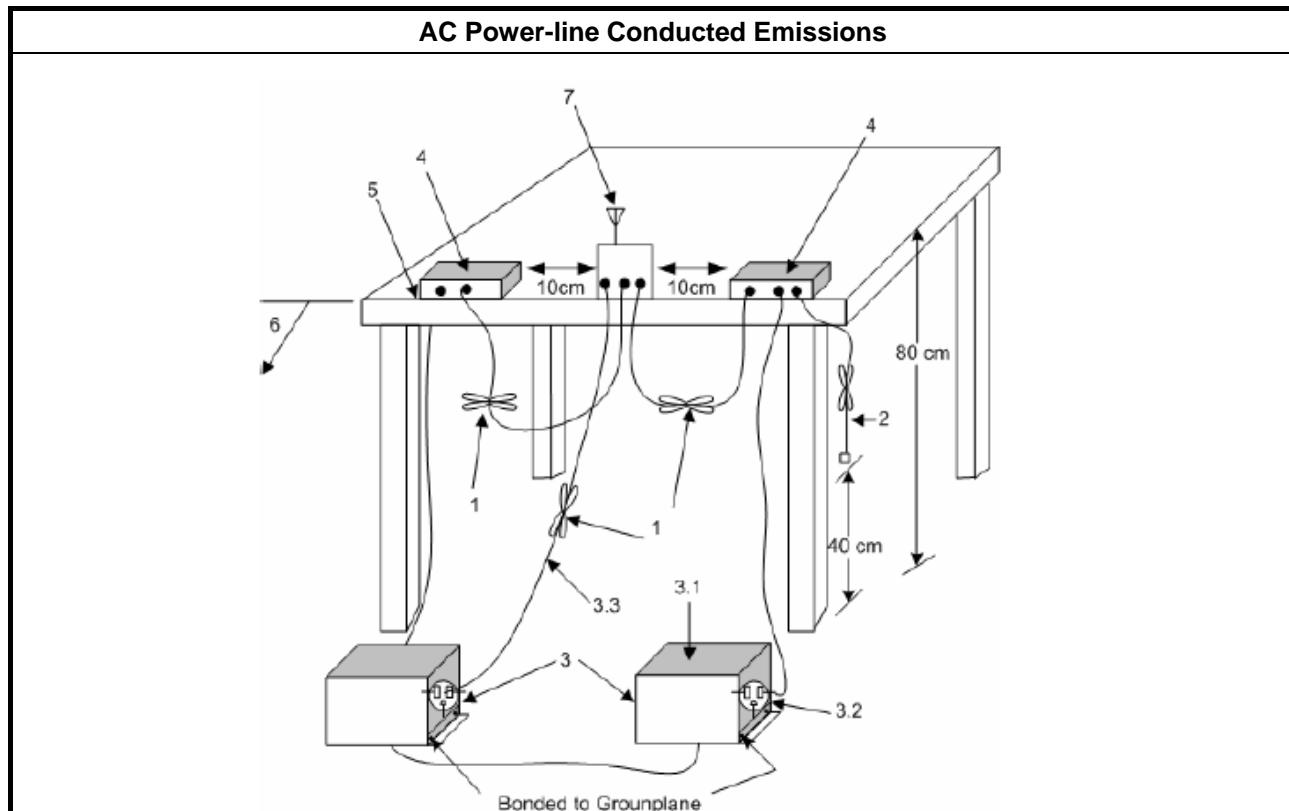
##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

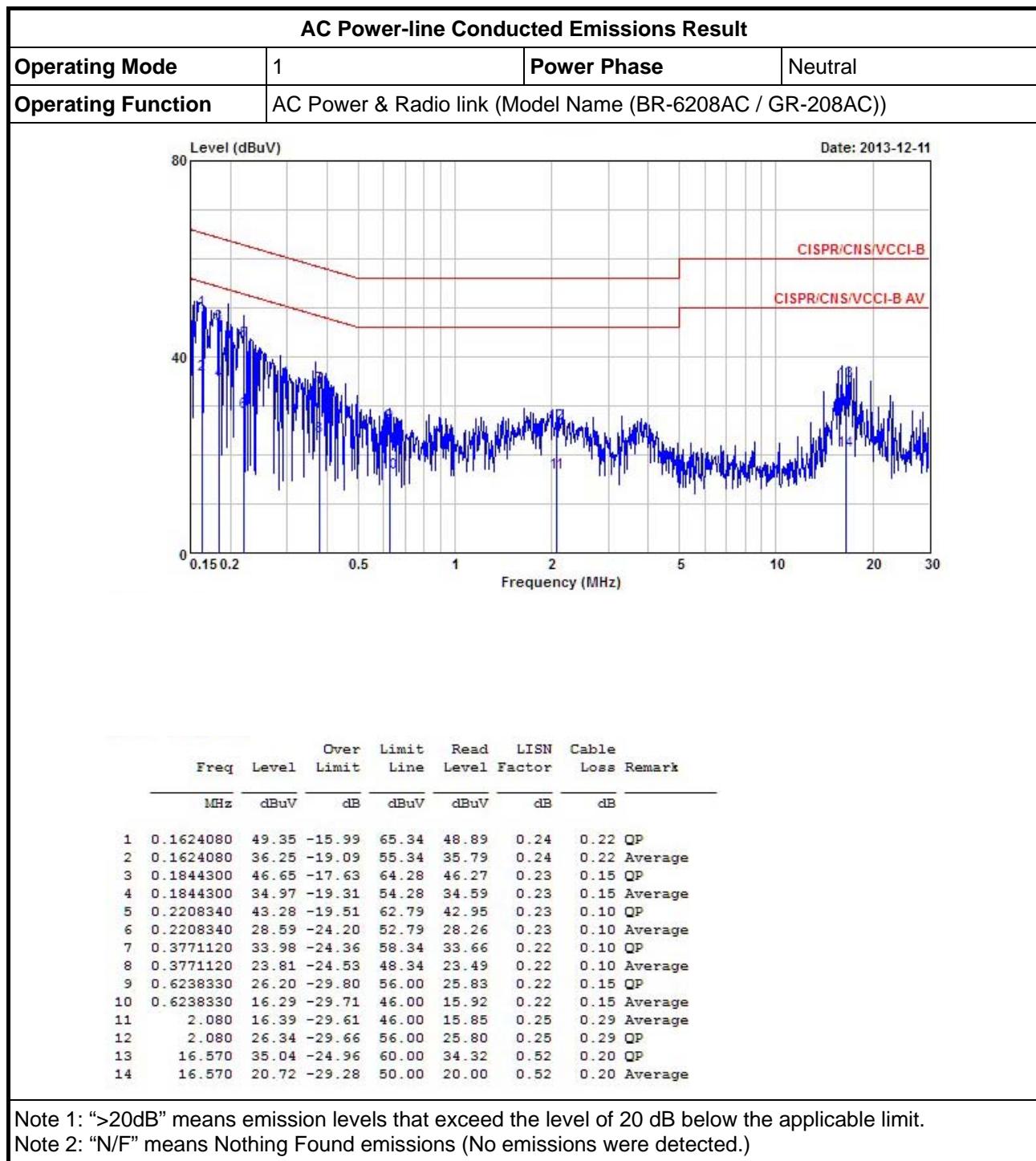
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

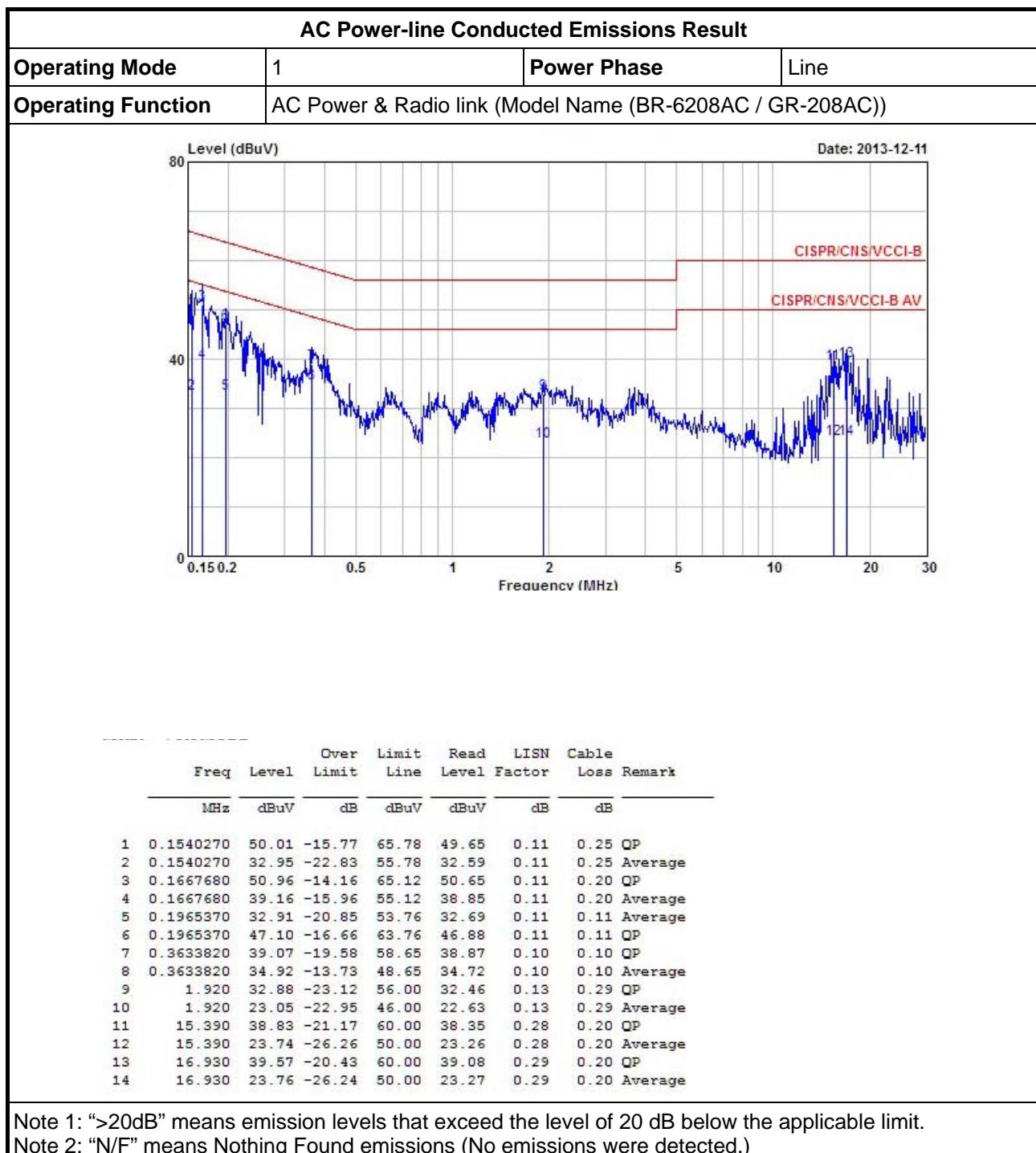
##### 3.1.4 Test Setup

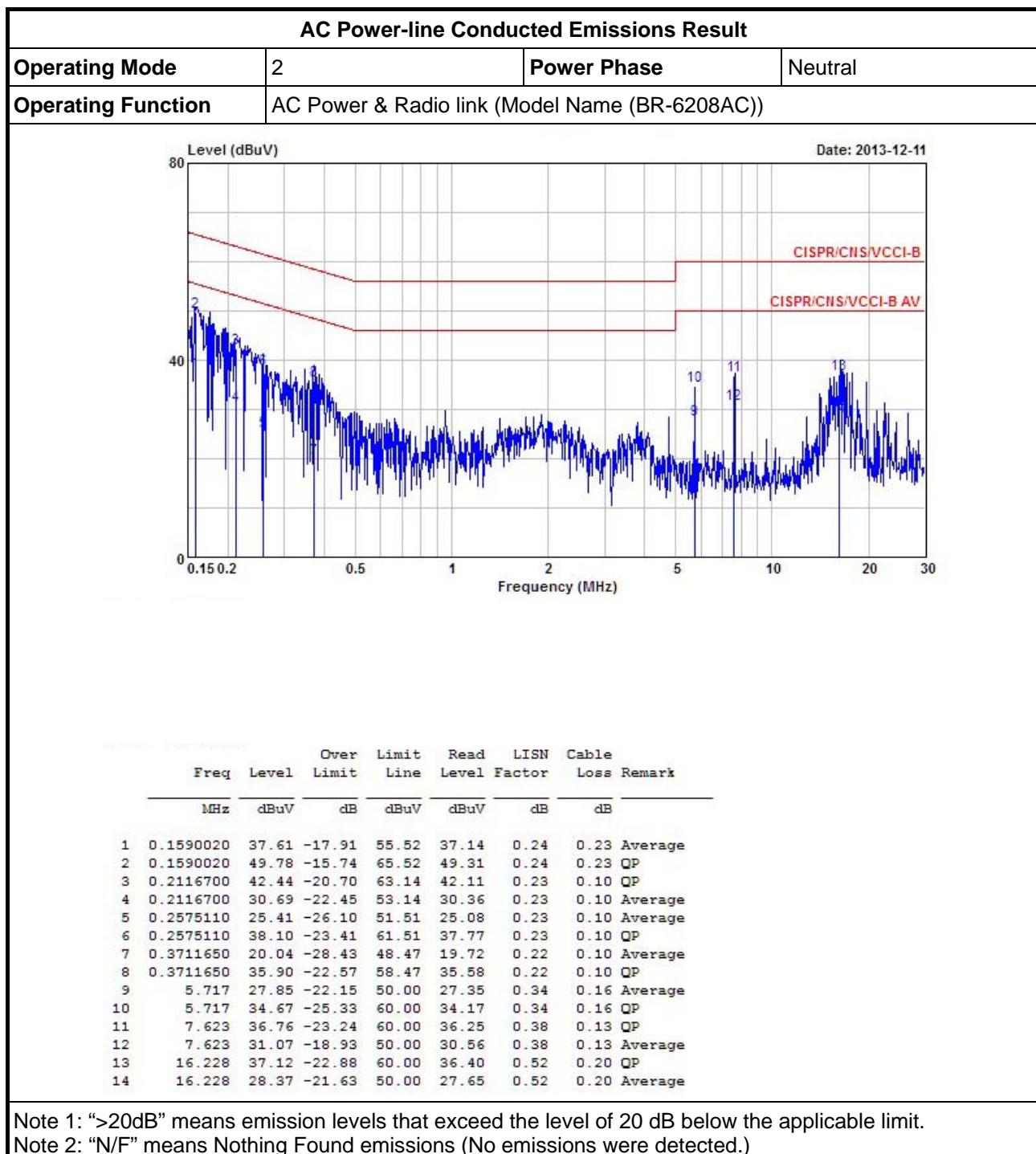




## 3.1.5 Test Result of AC Power-line Conducted Emissions

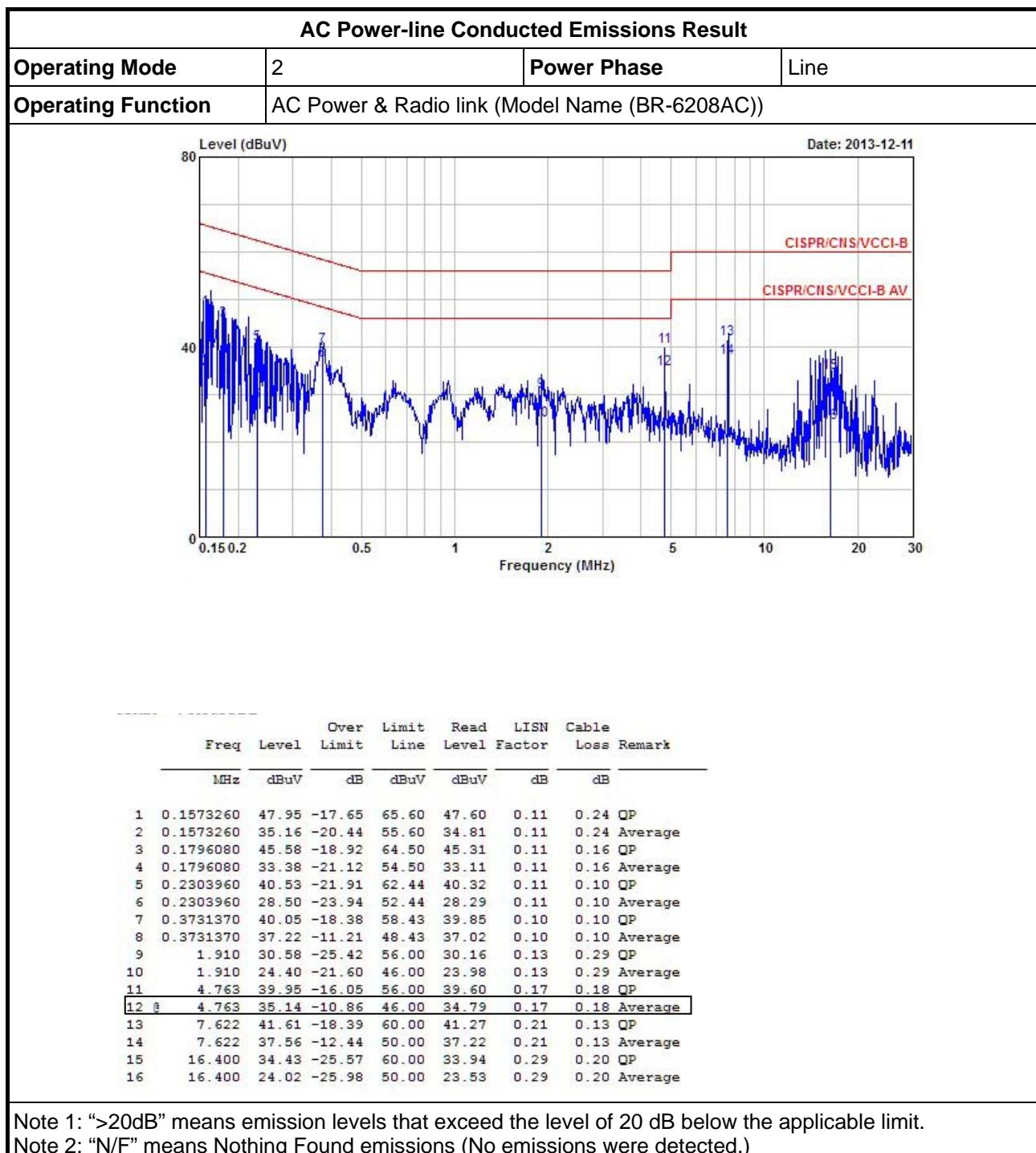






Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



## 3.2 6dB Bandwidth

### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
<b>Systems using digital modulation techniques:</b>
<input checked="" type="checkbox"/> 6 dB bandwidth $\geq$ 500 kHz.

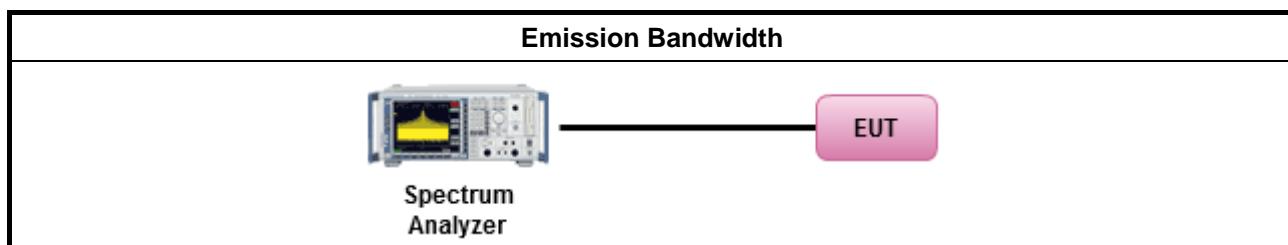
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input checked="" type="checkbox"/> For conducted measurement.
<input checked="" type="checkbox"/> The EUT supports single transmit chain and measurements performed on this transmit chain port 3.
<input type="checkbox"/> The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input type="checkbox"/> The EUT supports multiple transmit chains using options given below:
<input checked="" type="checkbox"/> Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.
<input type="checkbox"/> Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.

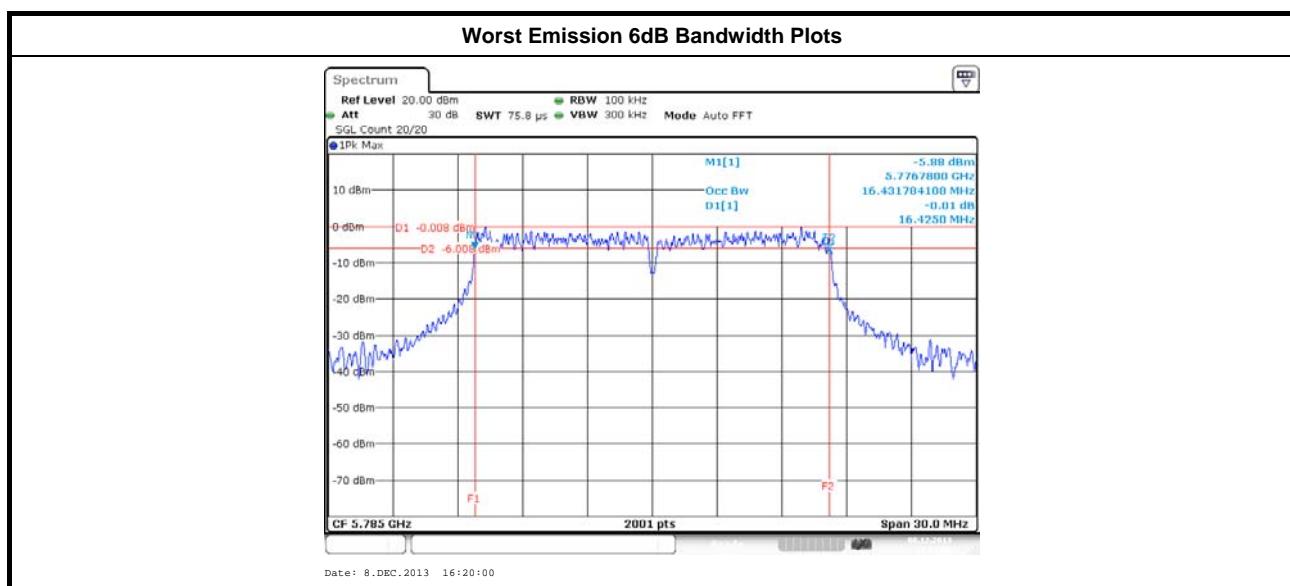
### 3.2.4 Test Setup





## 3.2.5 Test Result of Emission Bandwidth

Emission Bandwidth Result					
Condition			Emission Bandwidth (MHz)		
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	99% Bandwidth		6dB Bandwidth
			Chain Port 1		Chain Port 1
11a	1	5745	16.47		16.47
11a	1	5785	16.43		16.42
11a	1	5825	16.46		16.45
HT20,M0-7	1	5745	17.63		17.62
HT20,M0-7	1	5785	17.64		17.68
HT20,M0-7	1	5825	17.73		17.65
HT40,M0-7	1	5755	36.50		36.44
HT40,M0-7	1	5795	36.38		36.48
VHT20,M0-8	1	5745	17.64		17.67
VHT20,M0-8	1	5785	17.60		17.62
VHT20,M0-8	1	5825	17.72		17.67
VHT40,M0-9	1	5755	36.46		36.40
VHT40,M0-9	1	5795	36.30		36.40
VHT80,M0-9	1	5775	76.36		76.32
Limit			N/A	≥500 kHz	
Result			Complied		

Note 1: N<sub>TX</sub> = Number of Transmit Chains



### 3.3 RF Output Power

#### 3.3.1 RF Output Power Limit

RF Output Power Limit	
<b>Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit</b>	
<input checked="" type="checkbox"/> 5725-5850 MHz Band:	
<input checked="" type="checkbox"/> If $G_{TX} \leq 6 \text{ dBi}$ , then $P_{Out} \leq 30 \text{ dBm}$ (1 W)	
<input checked="" type="checkbox"/> Point-to-multipoint systems (P2M): If $G_{TX} > 6 \text{ dBi}$ , then $P_{Out} = 30 - (G_{TX} - 6) \text{ dBm}$	
<input type="checkbox"/> Point-to-point systems (P2P): If $G_{TX} > 6 \text{ dBi}$ , then $P_{Out} = 30 \text{ dBm}$	
<b>e.i.r.p. Power Limit:</b>	
<input checked="" type="checkbox"/> 5725-5850 MHz Band	
<input checked="" type="checkbox"/> Point-to-multipoint systems (P2M): $P_{eirp} \leq 36 \text{ dBm}$ (4 W)	
<input type="checkbox"/> Point-to-point systems (P2P): N/A	
$P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi. $P_{eirp}$ = e.i.r.p. Power in dBm.	

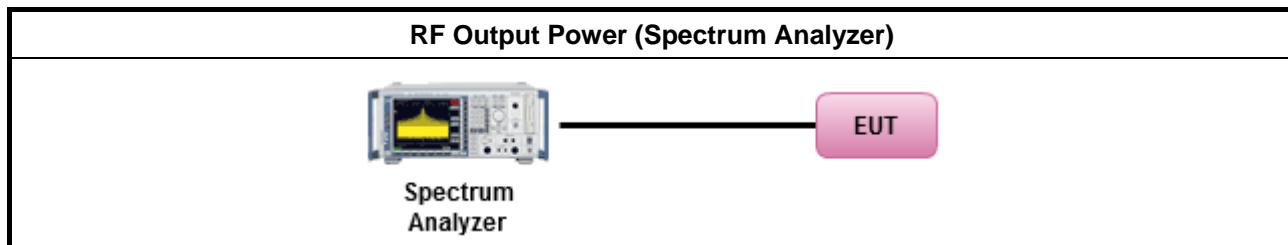
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Maximum Peak Conducted Output Power
<input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW $\geq$ EBW method).
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.2 Option 2 (integrated band power method).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 9.1.3 Option 2 (peak power meter for VBW $\geq$ DTS BW)
<input checked="" type="checkbox"/> Maximum Conducted Output Power
[duty cycle $\geq$ 98% or external video / power trigger]
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
duty cycle $<$ 98% and average over on/off periods with duty factor
<input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger
<input type="checkbox"/> Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).
<input checked="" type="checkbox"/> For conducted measurement.
<input checked="" type="checkbox"/> The EUT supports single transmit chain and measurements performed on this transmit chain port 3.
<input type="checkbox"/> The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input type="checkbox"/> The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
<input type="checkbox"/> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

### 3.3.4 Test Setup





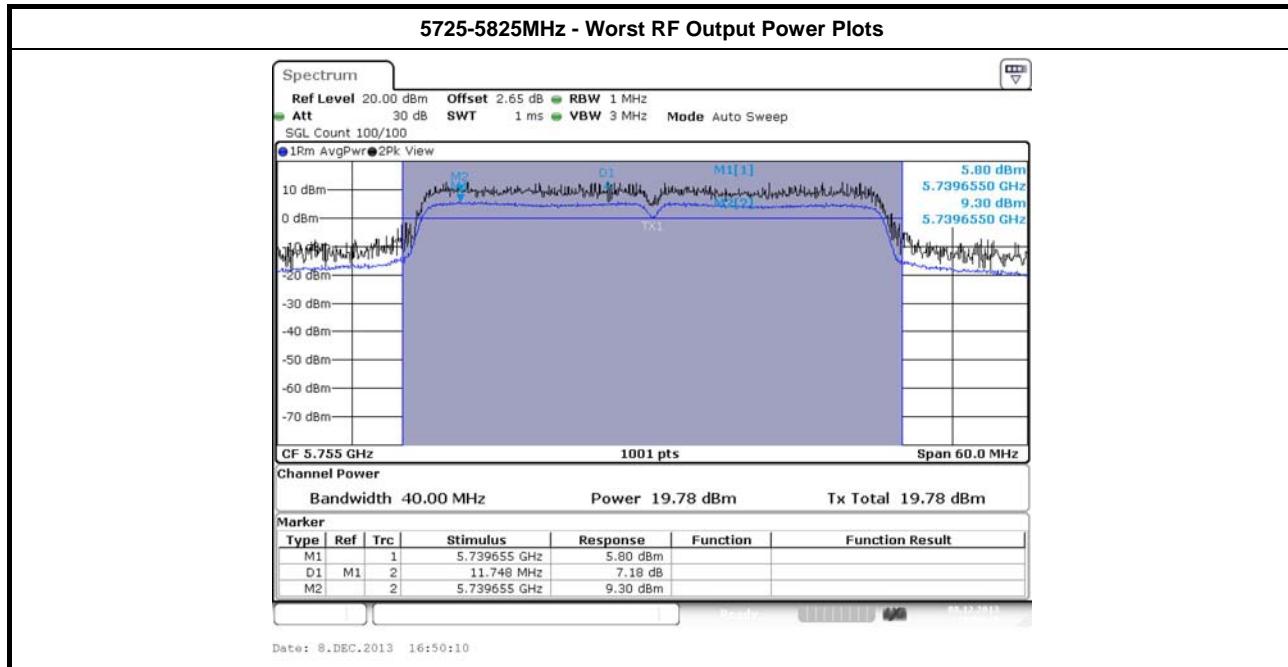
### 3.3.5 Test Result of Maximum Peak Conducted Output Power

Maximum Peak Conducted Output Power Result							
Condition			RF Output Power (dBm)				
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5745	23.64	30.00	5.40	29.04	36.00
11a	1	5785	21.75	30.00	5.40	27.15	36.00
11a	1	5825	23.05	30.00	5.40	28.45	36.00
HT20,M0-7	1	5745	23.57	30.00	5.40	28.97	36.00
HT20,M0-7	1	5785	21.94	30.00	5.40	27.34	36.00
HT20,M0-7	1	5825	23.39	30.00	5.40	28.79	36.00
HT40,M0-7	1	5755	24.70	30.00	5.40	30.10	36.00
HT40,M0-7	1	5795	23.71	30.00	5.40	29.11	36.00
VHT20,M0-8	1	5745	22.43	30.00	5.40	27.83	36.00
VHT20,M0-8	1	5785	21.31	30.00	5.40	26.71	36.00
VHT20,M0-8	1	5825	23.08	30.00	5.40	28.48	36.00
VHT40,M0-9	1	5755	24.72	30.00	5.40	30.12	36.00
VHT40,M0-9	1	5795	23.52	30.00	5.40	28.92	36.00
VHT80,M0-9	1	5775	24.23	30.00	5.40	29.63	36.00
Result							



## 3.3.6 Test Result of Maximum Conducted Output Power

Maximum Conducted Output Power Result							
Condition			RF Output Power (dBm)				
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5745	18.78	30.00	5.40	24.18	36.00
11a	1	5785	16.95	30.00	5.40	22.35	36.00
11a	1	5825	18.17	30.00	5.40	23.57	36.00
HT20,M0-7	1	5745	18.48	30.00	5.40	23.88	36.00
HT20,M0-7	1	5785	16.84	30.00	5.40	22.24	36.00
HT20,M0-7	1	5825	18.45	30.00	5.40	23.85	36.00
HT40,M0-7	1	5755	19.75	30.00	5.40	25.15	36.00
HT40,M0-7	1	5795	18.84	30.00	5.40	24.24	36.00
VHT20,M0-8	1	5745	17.43	30.00	5.40	22.83	36.00
VHT20,M0-8	1	5785	16.27	30.00	5.40	21.67	36.00
VHT20,M0-8	1	5825	18.13	30.00	5.40	23.53	36.00
VHT40,M0-9	1	5755	19.78	30.00	5.40	25.18	36.00
VHT40,M0-9	1	5795	18.72	30.00	5.40	24.12	36.00
VHT80,M0-9	1	5775	19.13	30.00	5.40	24.53	36.00
Result							





## 3.4 Power Spectral Density

### 3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<input checked="" type="checkbox"/> Power Spectral Density (PSD) $\leq 8 \text{ dBm/3kHz}$

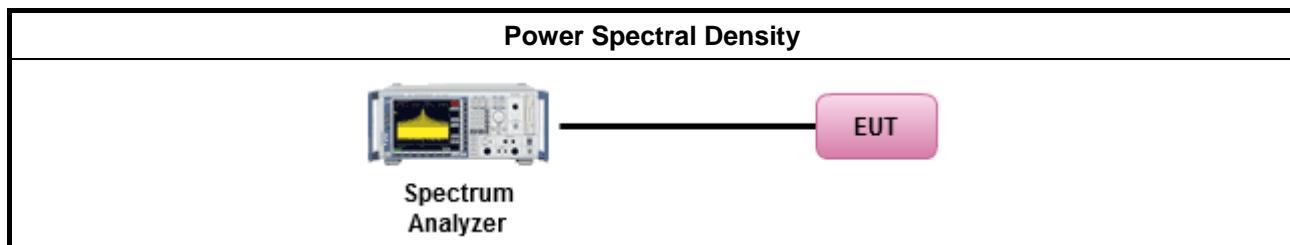
### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.4.3 Test Procedures

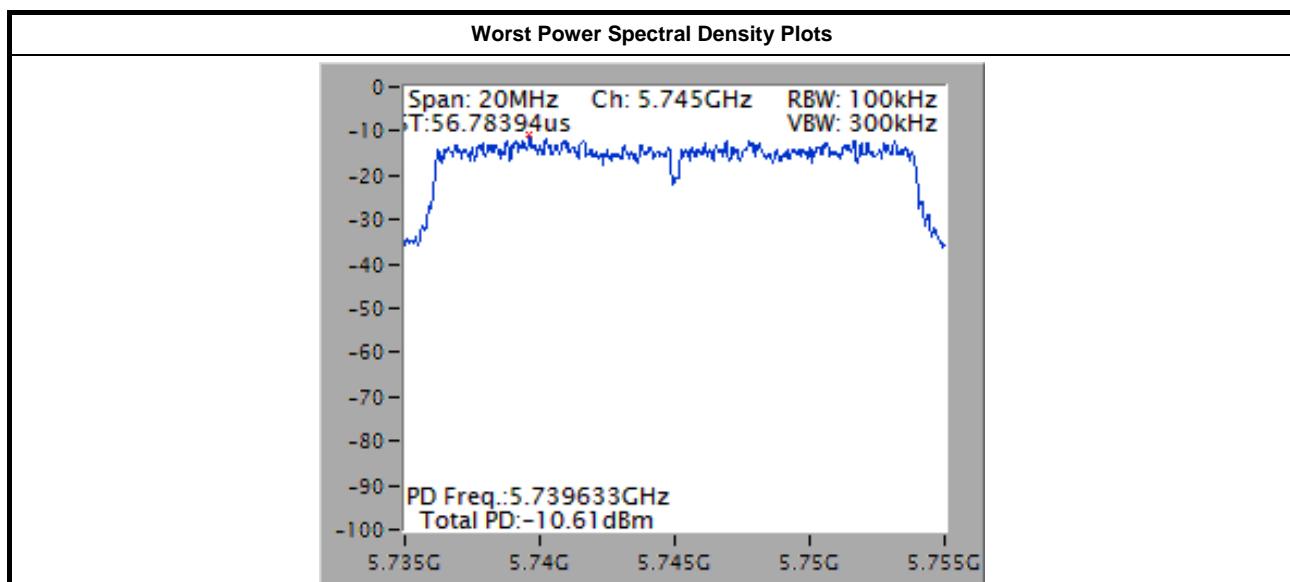
Test Method
<input checked="" type="checkbox"/> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz;detector=peak).. [duty cycle $\geq 98\%$ or external video / power trigger]
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-1 Alt. (slow sweep speed) duty cycle $< 98\%$ and average over on/off periods with duty factor
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-2 (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)
<input checked="" type="checkbox"/> For conducted measurement.
<input checked="" type="checkbox"/> The EUT supports single transmit chain and measurements performed on this transmit chain port 3.
<input type="checkbox"/> The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input type="checkbox"/> The EUT supports multiple transmit chains using options given below:
<input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the 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 $N_{TX}$ output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/> Option 2: Measure and add $10 \log(N)$ dB, where $N$ is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$ . Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

### 3.4.4 Test Setup



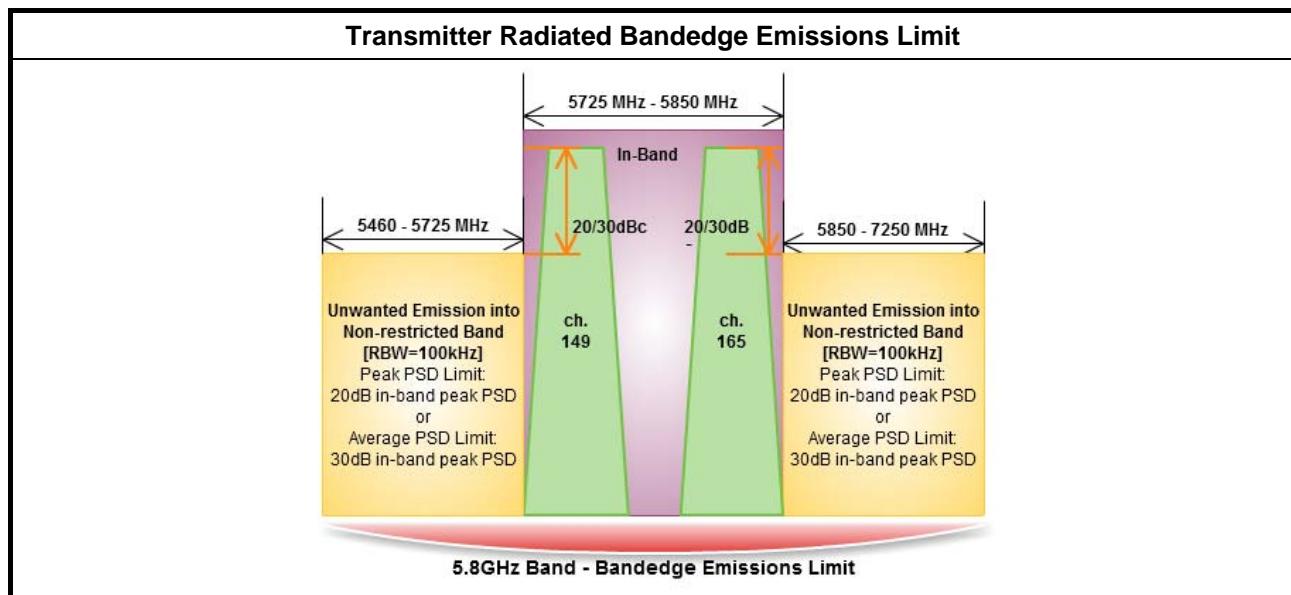
### 3.4.5 Test Result of Power Spectral Density

Condition			Power Spectral Density	
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Power Spectral Density (dBm/100kHz)	Power Limit (dBm/3kHz)
11a	1	5745	-11.54	8.00
11a	1	5785	-12.59	8.00
11a	1	5825	-11.69	8.00
HT20,M0-7	1	5745	-10.61	8.00
HT20,M0-7	1	5785	-12.88	8.00
HT20,M0-7	1	5825	-11.36	8.00
HT40,M0-7	1	5755	-13.11	8.00
HT40,M0-7	1	5795	-13.91	8.00
VHT20,M0-8	1	5745	-11.38	8.00
VHT20,M0-8	1	5785	-13.87	8.00
VHT20,M0-8	1	5825	-12.05	8.00
VHT40,M0-9	1	5755	-13.40	8.00
VHT40,M0-9	1	5795	-14.55	8.00
VHT80,M0-9	1	5775	-15.82	8.00
Result			Complied	



## 3.5 Transmitter Bandedge Emissions

### 3.5.1 Transmitter Radiated Bandedge Emissions Limit



### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

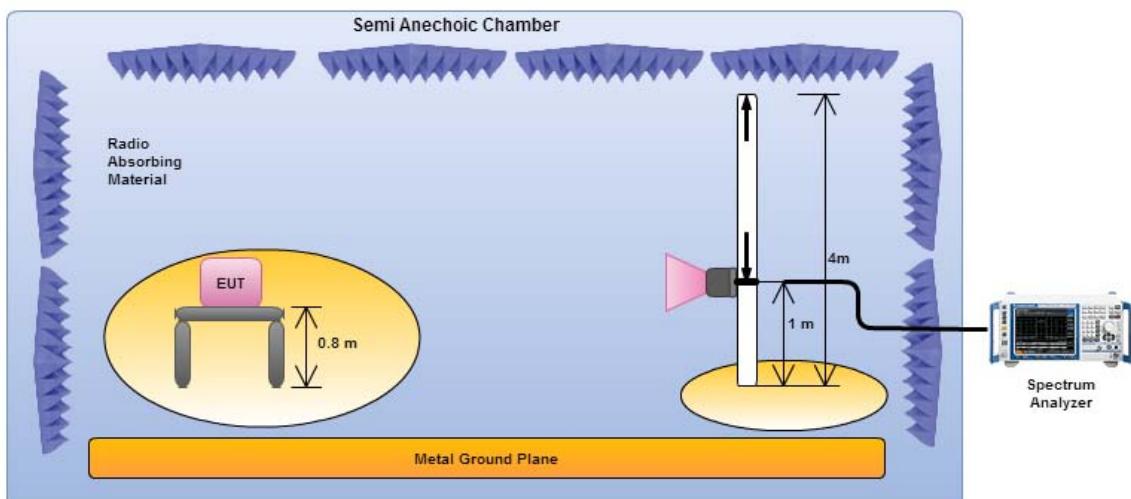


### 3.5.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
<input checked="" type="checkbox"/> For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$ )
<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$ ).
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.
<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
<input checked="" type="checkbox"/> For the transmitter bandedge emissions shall be measured using following options below:
<input type="checkbox"/> Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
<input checked="" type="checkbox"/> For radiated measurement, refer as FCC KDB 558074, clause 12.2.7 and ANSI C63.10, clause 6.6. Test distance is 1m.
<input checked="" type="checkbox"/> Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.

### 3.5.4 Test Setup

#### Transmitter Radiated Bandedge Emissions



Electric field tests shall be performed in transmitter bandedge emissions using a calibrated horn antenna.



## 3.5.5 Transmitter Radiated Bandedge Emissions

5725-5850MHz Transmitter Radiated Bandedge Emissions - Mode 1								
Modulation	N <sub>TX</sub>	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
11a	1	5720	111.31	5724.970	78.67	32.64	20	V
11a	1	5825	110.03	5850.000	70.65	39.38	20	V
HT20,M0-7	1	5720	111.93	5724.970	81.87	30.06	20	V
HT20,M0-7	1	5825	110.99	5851.250	70.49	40.50	20	V
HT40,M0-7	1	5710	108.13	5723.800	80.24	27.89	20	V
HT40,M0-7	1	5795	107.84	5851.000	67.74	40.10	20	V
VHT20,M0-8	1	5720	111.75	5724.970	80.52	31.23	20	V
VHT20,M0-8	1	5825	110.80	5851.630	69.77	41.03	20	V
VHT40,M0-9	1	5710	108.31	5723.400	80.36	27.95	20	V
VHT40,M0-9	1	5795	106.71	5851.400	68.87	37.84	20	V
VHT80,M0-9	1	5775	105.70	5851.300	73.63	32.07	20	V

Note 1: Measurement worst emissions of receive antenna polarization

5725-5850MHz Transmitter Radiated Bandedge Emissions - Mode 2								
Modulation	N <sub>TX</sub>	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
11a	1	5720	111.57	5724.970	75.34	36.23	20	V
11a	1	5825	110.60	5850.310	73.70	36.90	20	V
HT20,M0-7	1	5720	110.67	5724.970	71.19	39.48	20	V
HT20,M0-7	1	5825	110.84	5850.310	72.62	38.22	20	V
HT40,M0-7	1	5710	109.91	5723.500	85.30	24.61	20	V
HT40,M0-7	1	5795	109.04	5850.200	69.52	39.52	20	V
VHT20,M0-8	1	5720	111.36	5724.970	76.73	34.63	20	V
VHT20,M0-8	1	5825	112.20	5850.310	73.60	38.60	20	V
VHT40,M0-9	1	5710	110.62	5722.300	85.76	24.86	20	V
VHT40,M0-9	1	5795	108.38	5850.600	71.17	37.21	20	V
VHT80,M0-9	1	5775	108.08	5850.110	80.35	27.73	20	V

Note 1: Measurement worst emissions of receive antenna polarization



## 3.6 Transmitter Unwanted Emissions

### 3.6.1 Transmitter Radiated Unwanted Emissions Limit

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

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

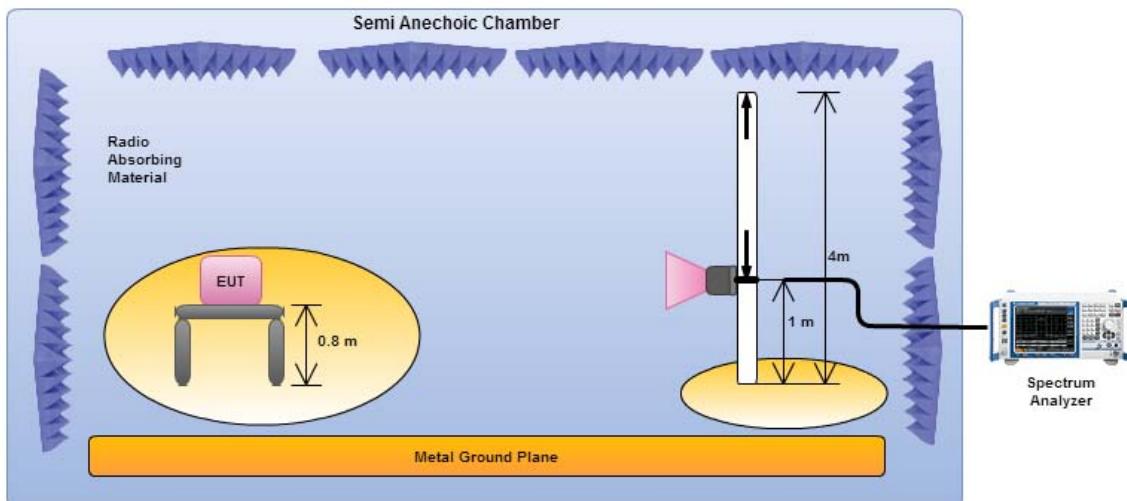


### 3.6.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
<input checked="" type="checkbox"/> The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
<input checked="" type="checkbox"/> For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$ ).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$ ).
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.
<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.
<input checked="" type="checkbox"/> For radiated measurement, refer as FCC KDB 558074, clause 12.2.7.
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 1m.
<input checked="" type="checkbox"/> The any unwanted emissions level shall not exceed the fundamental emission level.
<input checked="" type="checkbox"/> All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

### 3.6.4 Test Setup

#### Transmitter Radiated Unwanted Emissions



Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

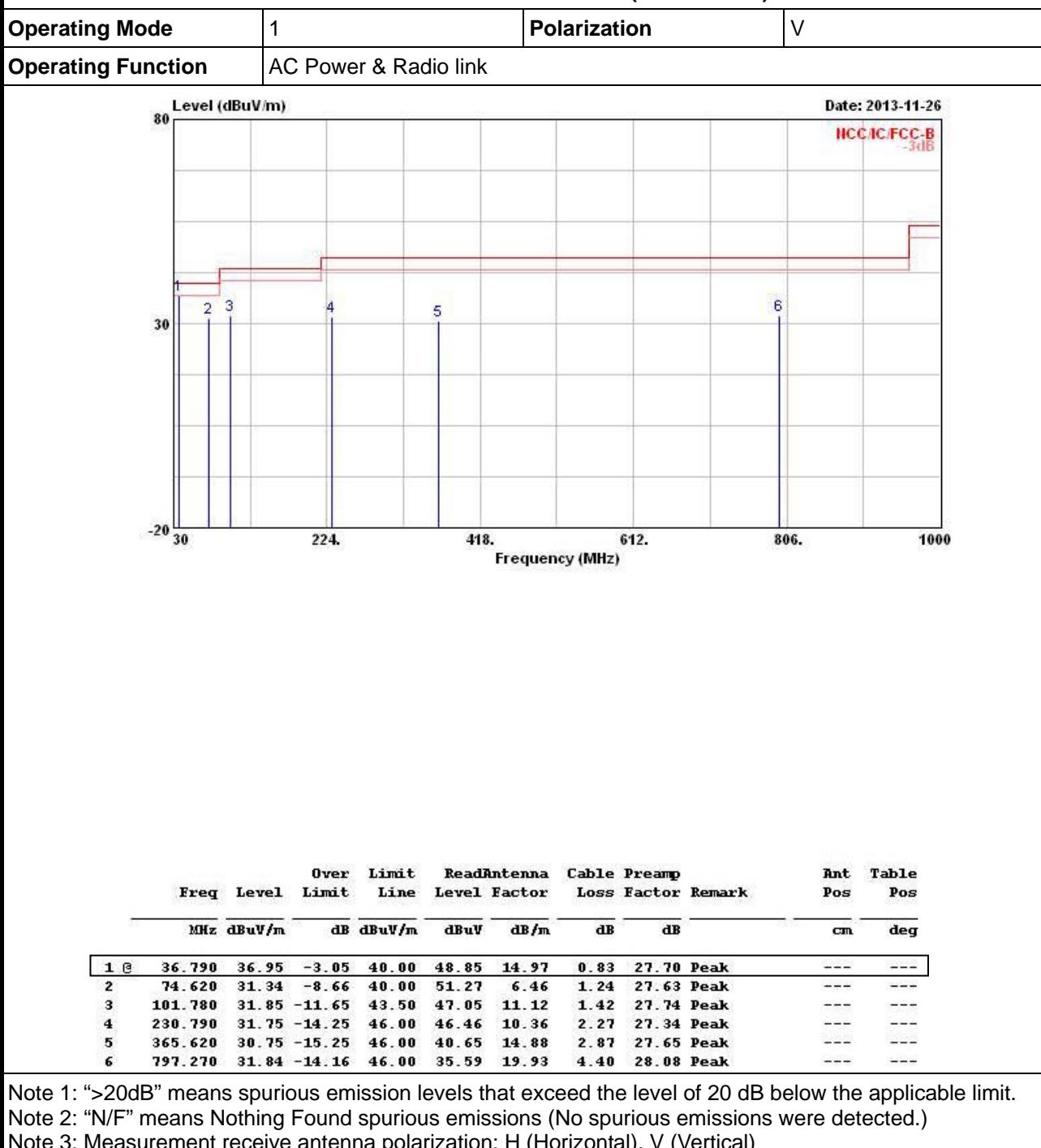
### 3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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



## 3.6.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

## Transmitter Radiated Unwanted Emissions (Below 1GHz) - Mode 1





## Transmitter Radiated Unwanted Emissions (Below 1GHz) - Mode 1

Operating Mode	1	Polarization	H																																																																																
Operating Function	AC Power & Radio link																																																																																		
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>Ant</th> <th>Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>32.910</td> <td>29.41</td> <td>-10.59</td> <td>40.00</td> <td>39.26</td> <td>17.11</td> <td>0.79</td> <td>27.75</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>48.430</td> <td>29.52</td> <td>-10.48</td> <td>40.00</td> <td>47.19</td> <td>8.87</td> <td>0.99</td> <td>27.53</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>164.830</td> <td>29.18</td> <td>-14.32</td> <td>43.50</td> <td>44.95</td> <td>9.95</td> <td>1.82</td> <td>27.54</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>230.790</td> <td>32.18</td> <td>-13.82</td> <td>46.00</td> <td>46.89</td> <td>10.36</td> <td>2.27</td> <td>27.34</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>365.620</td> <td>31.89</td> <td>-14.11</td> <td>46.00</td> <td>41.79</td> <td>14.88</td> <td>2.87</td> <td>27.65</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>431.580</td> <td>30.35</td> <td>-15.65</td> <td>46.00</td> <td>38.60</td> <td>16.72</td> <td>3.10</td> <td>28.07</td> <td>Peak</td> </tr> </tbody> </table>				Freq	Level	Over Limit	Limit	Read	Antenna	Cable	Preamp	Ant	Table	MHz	dBuV/m	dB	dBuV/m	Line	Level	Factor	Loss	Factor	Remark	1	32.910	29.41	-10.59	40.00	39.26	17.11	0.79	27.75	Peak	2	48.430	29.52	-10.48	40.00	47.19	8.87	0.99	27.53	Peak	3	164.830	29.18	-14.32	43.50	44.95	9.95	1.82	27.54	Peak	4	230.790	32.18	-13.82	46.00	46.89	10.36	2.27	27.34	Peak	5	365.620	31.89	-14.11	46.00	41.79	14.88	2.87	27.65	Peak	6	431.580	30.35	-15.65	46.00	38.60	16.72	3.10	28.07	Peak
Freq	Level	Over Limit	Limit	Read	Antenna	Cable	Preamp	Ant	Table																																																																										
MHz	dBuV/m	dB	dBuV/m	Line	Level	Factor	Loss	Factor	Remark																																																																										
1	32.910	29.41	-10.59	40.00	39.26	17.11	0.79	27.75	Peak																																																																										
2	48.430	29.52	-10.48	40.00	47.19	8.87	0.99	27.53	Peak																																																																										
3	164.830	29.18	-14.32	43.50	44.95	9.95	1.82	27.54	Peak																																																																										
4	230.790	32.18	-13.82	46.00	46.89	10.36	2.27	27.34	Peak																																																																										
5	365.620	31.89	-14.11	46.00	41.79	14.88	2.87	27.65	Peak																																																																										
6	431.580	30.35	-15.65	46.00	38.60	16.72	3.10	28.07	Peak																																																																										

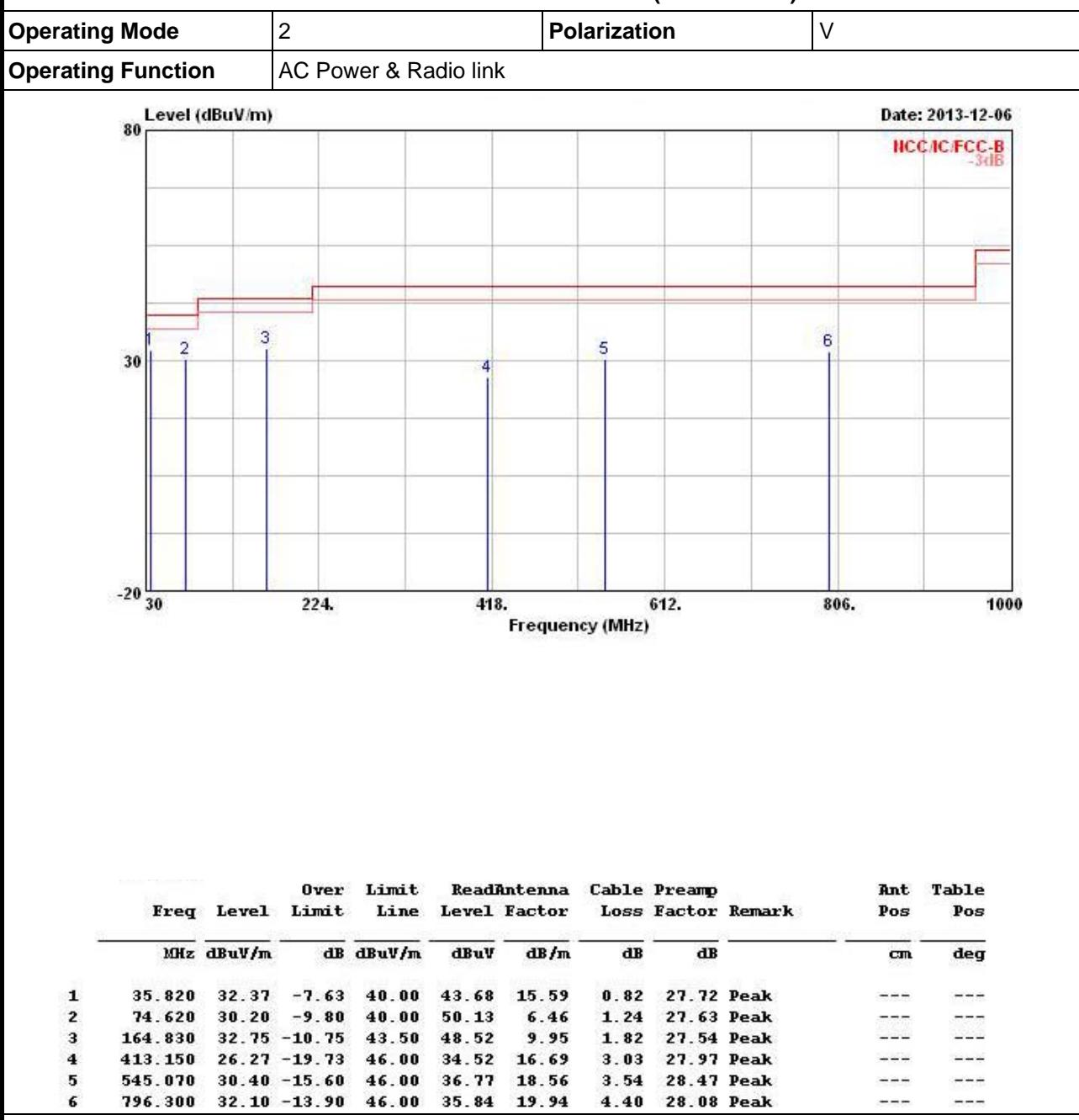
Note 1: "&gt;20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



## Transmitter Radiated Unwanted Emissions (Below 1GHz) - Mode 2



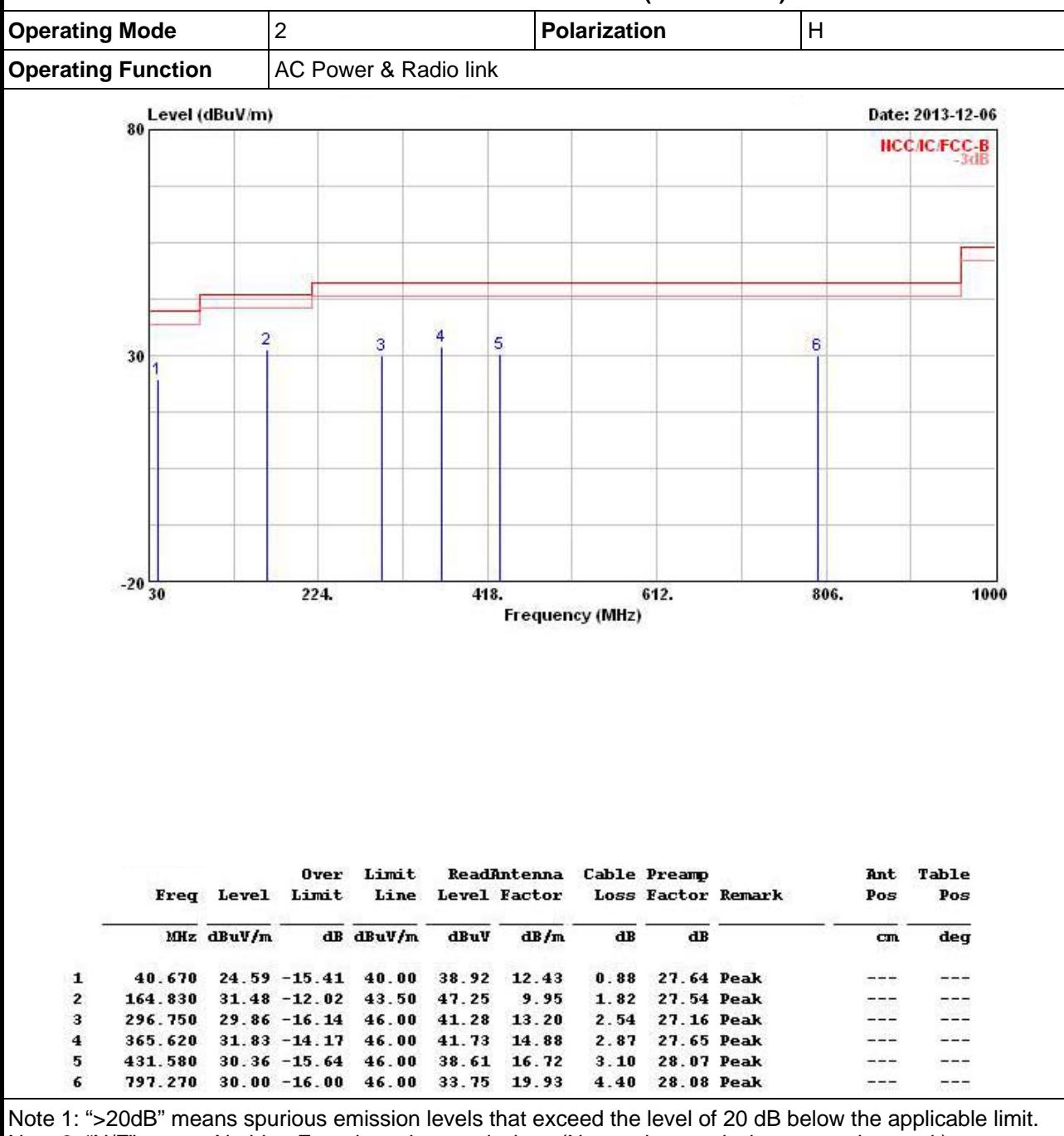
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)



## Transmitter Radiated Unwanted Emissions (Below 1GHz) - Mode 2





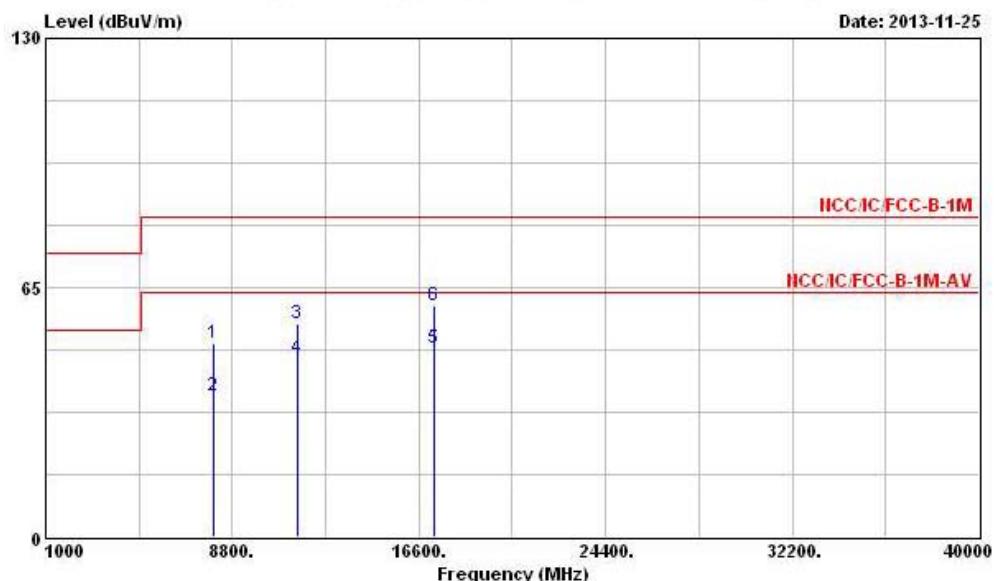
## 3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1																																																																																																						
Modulation Mode		11a			Test Freq. (MHz)			5745																																																																																														
N <sub>TX</sub>	1				Polarization			V																																																																																														
Level (dBuV/m)																																																																																																						
Date: 2013-11-25																																																																																																						
Frequency (MHz)																																																																																																						
0 1000 8800. 16600. 24400. 32200. 40000																																																																																																						
<table border="1"> <thead> <tr> <th rowspan="2">Freq</th> <th rowspan="2">Level</th> <th rowspan="2">Over Limit</th> <th rowspan="2">Line</th> <th colspan="2">ReadAntenna</th> <th colspan="2">Cable Preamp</th> <th rowspan="2">Ant Pos</th> <th rowspan="2">Table Pos</th> </tr> <tr> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>MHz</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV/m</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>cm</td> <td>deg</td> </tr> <tr> <td>1</td> <td>7902.000</td> <td>50.16</td> <td>-33.38</td> <td>83.54</td> <td>42.33</td> <td>37.58</td> <td>5.38</td> <td>35.13 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>7902.000</td> <td>36.08</td> <td>-27.46</td> <td>63.54</td> <td>28.25</td> <td>37.58</td> <td>5.38</td> <td>35.13 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>11490.000</td> <td>59.45</td> <td>-24.09</td> <td>83.54</td> <td>48.36</td> <td>39.17</td> <td>6.36</td> <td>34.44 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>11490.000</td> <td>52.65</td> <td>-10.89</td> <td>63.54</td> <td>41.56</td> <td>39.17</td> <td>6.36</td> <td>34.44 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>17235.000</td> <td>61.04</td> <td>-22.50</td> <td>83.54</td> <td>42.26</td> <td>43.68</td> <td>8.96</td> <td>33.86 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>6</td> <td>17235.000</td> <td>50.47</td> <td>-13.07</td> <td>63.54</td> <td>31.69</td> <td>43.68</td> <td>8.96</td> <td>33.86 Average</td> <td>---</td> <td>---</td> </tr> </tbody> </table>												Freq	Level	Over Limit	Line	ReadAntenna		Cable Preamp		Ant Pos	Table Pos	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	7902.000	50.16	-33.38	83.54	42.33	37.58	5.38	35.13 Peak	---	---	2	7902.000	36.08	-27.46	63.54	28.25	37.58	5.38	35.13 Average	---	---	3	11490.000	59.45	-24.09	83.54	48.36	39.17	6.36	34.44 Peak	---	---	4	11490.000	52.65	-10.89	63.54	41.56	39.17	6.36	34.44 Average	---	---	5	17235.000	61.04	-22.50	83.54	42.26	43.68	8.96	33.86 Peak	---	---	6	17235.000	50.47	-13.07	63.54	31.69	43.68	8.96	33.86 Average	---	---
Freq	Level	Over Limit	Line	ReadAntenna		Cable Preamp		Ant Pos	Table Pos																																																																																													
				Level	Factor	Loss	Factor			Remark																																																																																												
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																													
1	7902.000	50.16	-33.38	83.54	42.33	37.58	5.38	35.13 Peak	---	---																																																																																												
2	7902.000	36.08	-27.46	63.54	28.25	37.58	5.38	35.13 Average	---	---																																																																																												
3	11490.000	59.45	-24.09	83.54	48.36	39.17	6.36	34.44 Peak	---	---																																																																																												
4	11490.000	52.65	-10.89	63.54	41.56	39.17	6.36	34.44 Average	---	---																																																																																												
5	17235.000	61.04	-22.50	83.54	42.26	43.68	8.96	33.86 Peak	---	---																																																																																												
6	17235.000	50.47	-13.07	63.54	31.69	43.68	8.96	33.86 Average	---	---																																																																																												
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition. Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.69 dBuV/m).																																																																																																						



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

<b>Modulation Mode</b>	11a	<b>Test Freq. (MHz)</b>	5745
<b>N<sub>TX</sub></b>	1	<b>Polarization</b>	H



Freq	Level	Over Limit		ReadAntenna		Cable Preamp		Remark	Ant Pos	Table Pos
		Limit	Line	Level	Factor	Loss	Factor			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 8034.000	50.44	-33.10	83.54	42.68	37.60	5.32	35.16	Peak	---	---
2 8034.000	36.63	-26.91	63.54	28.87	37.60	5.32	35.16	Average	---	---
3 11490.000	55.72	-27.82	83.54	44.63	39.17	6.36	34.44	Peak	---	---
4 11490.000	46.41	-17.13	63.54	35.32	39.17	6.36	34.44	Average	---	---
5 17235.000	49.12	-14.42	63.54	30.34	43.68	8.96	33.86	Average	---	---
6 17235.000	60.29	-23.25	83.54	41.51	43.68	8.96	33.86	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

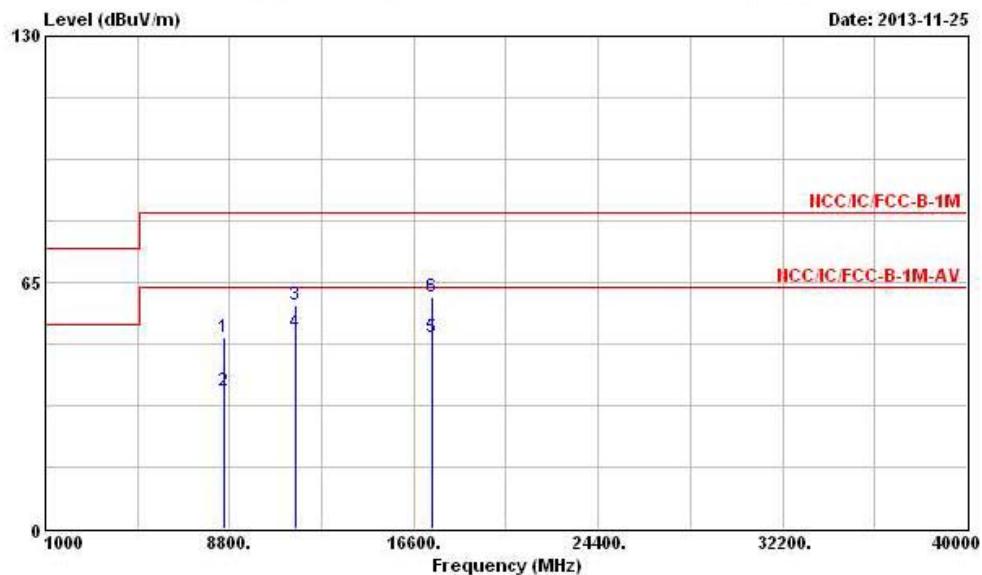
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.69 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table
		Limit	Line	Level	Factor	Cable	Preamp		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 8562.000	50.41	-33.13	83.54	42.29	37.69	5.54	35.11 Peak	---	---
2 8562.000	36.43	-27.11	63.54	28.31	37.69	5.54	35.11 Average	---	---
3 11570.000	58.94	-24.60	83.54	47.84	39.19	6.44	34.53 Peak	---	---
4 11570.000	51.93	-11.61	63.54	40.83	39.19	6.44	34.53 Average	---	---
5 17355.000	50.45	-13.09	63.54	30.80	44.52	8.94	33.81 Average	---	---
6 17355.000	61.14	-22.40	83.54	41.49	44.52	8.94	33.81 Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

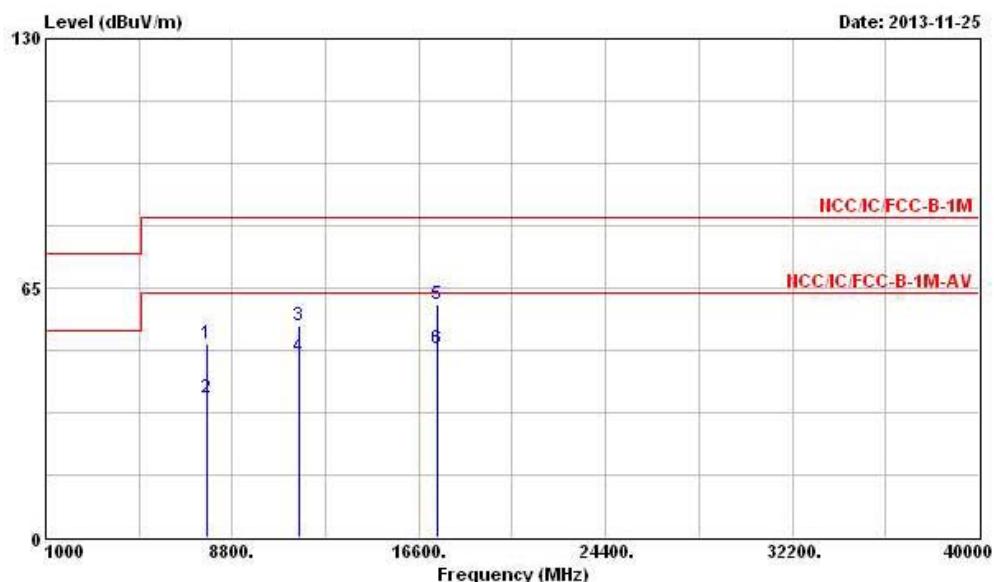
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.25 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5785
$N_{TX}$	1	Polarization	H



Freq	Level	Over Limit		ReadAntenna		Cable Preamp		Ant Pos	Table Pos		
		MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Remark	
737.000	50.44	-33.10	83.54	42.45	37.55	5.51	35.07	Peak	---	---	---
737.000	36.49	-27.05	63.54	28.50	37.55	5.51	35.07	Average	---	---	---
570.000	55.33	-28.21	83.54	44.23	39.19	6.44	34.53	Peak	---	---	---
570.000	47.12	-16.42	63.54	36.02	39.19	6.44	34.53	Average	---	---	---
355.000	60.63	-22.91	83.54	40.98	44.52	8.94	33.81	Peak	---	---	---
355.000	49.16	-14.38	63.54	29.51	44.52	8.94	33.81	Average	---	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "NF" means Nothing Found spurious emissions (No spurious emissions were detected).

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

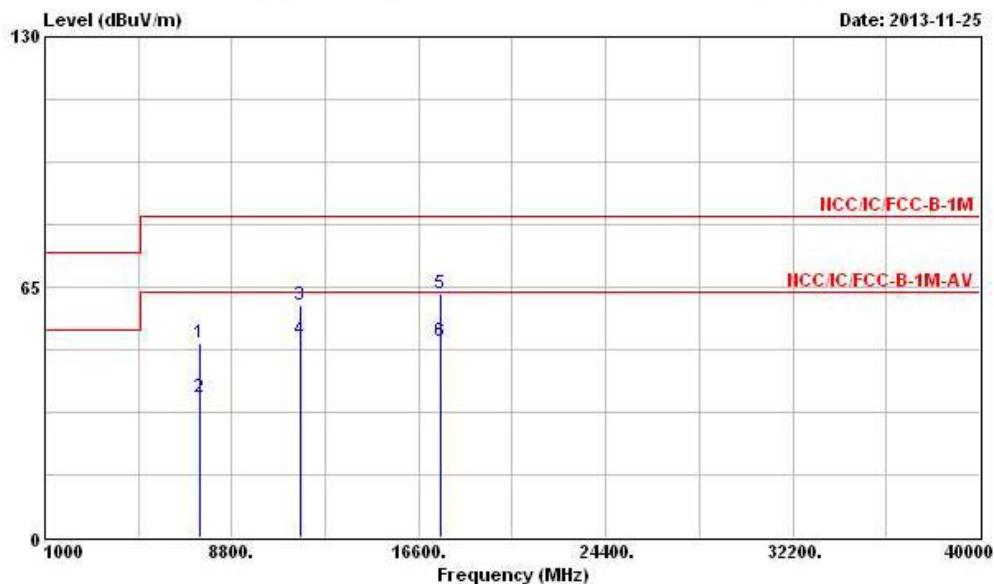
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.25 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

<b>Modulation Mode</b>	11a	<b>Test Freq. (MHz)</b>	5825
<b>N<sub>TX</sub></b>	1	<b>Polarization</b>	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
		Limit	Line	Level	Factor	Loss	Factor			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
7462.000	50.43	-33.11	83.54	42.33	37.42	5.66	34.98	Peak	---	---
7462.000	36.28	-27.26	63.54	28.18	37.42	5.66	34.98	Average	---	---
11650.000	60.35	-23.19	83.54	49.24	39.17	6.52	34.58	Peak	---	---
11650.000	51.35	-12.19	63.54	40.24	39.17	6.52	34.58	Average	---	---
117475.000	63.17	-20.37	83.54	42.64	45.36	8.92	33.75	Peak	---	---
117475.000	50.69	-12.85	63.54	30.16	45.36	8.92	33.75	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

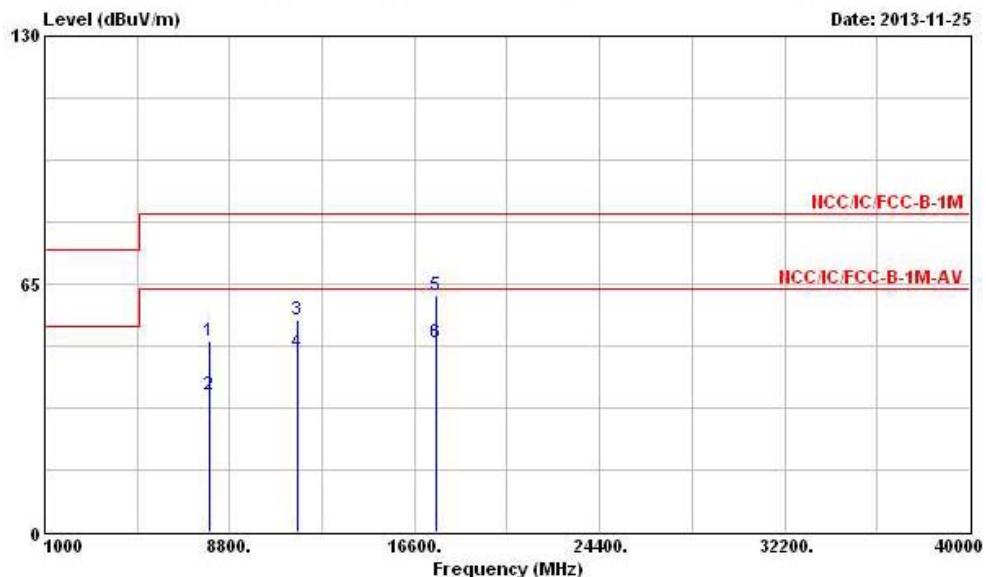
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.33 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	11a	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over Limit	Line	ReadAntenna		Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
				Level	Factor					
MHz	dBuV/m		dB	dBuV/m		dBuV	dB/m		dB	deg
1 7913.000	49.88	-33.66	83.54	42.05	37.58	5.38	35.13	Peak	---	---
2 7913.000	36.04	-27.50	63.54	28.21	37.58	5.38	35.13	Average	---	---
3 11650.000	55.45	-28.09	83.54	44.34	39.17	6.52	34.58	Peak	---	---
4 11650.000	47.20	-16.34	63.54	36.09	39.17	6.52	34.58	Average	---	---
5 17475.000	62.22	-21.32	83.54	41.69	45.36	8.92	33.75	Peak	---	---
6 17475.000	49.68	-13.86	63.54	29.15	45.36	8.92	33.75	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.33 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5745																																																																																																					
N <sub>TX</sub>	1	Polarization	V																																																																																																					
Level (dBuV/m)			Date: 2013-11-27																																																																																																					
<table border="1"> <thead> <tr> <th rowspan="2">Freq</th> <th rowspan="2">Level</th> <th>Over</th> <th>Limit</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th rowspan="2">Remark</th> <th rowspan="2">Ant</th> <th rowspan="2">Table</th> </tr> <tr> <th>Limit</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> </tr> </thead> <tbody> <tr> <td>MHz</td> <td>dBuV/m</td> <td>dB</td> <td>dBuV/m</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td></td> <td>Pos</td> <td>Pos</td> </tr> <tr> <td>1</td> <td>7781.000</td> <td>50.11</td> <td>-33.43</td> <td>83.54</td> <td>42.15</td> <td>37.56</td> <td>5.48</td> <td>35.08 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>7781.000</td> <td>36.47</td> <td>-27.07</td> <td>63.54</td> <td>28.51</td> <td>37.56</td> <td>5.48</td> <td>35.08 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>11490.000</td> <td>60.13</td> <td>-23.41</td> <td>83.54</td> <td>49.04</td> <td>39.17</td> <td>6.36</td> <td>34.44 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>11490.000</td> <td>52.58</td> <td>-10.96</td> <td>63.54</td> <td>41.49</td> <td>39.17</td> <td>6.36</td> <td>34.44 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>17235.000</td> <td>51.51</td> <td>-12.03</td> <td>63.54</td> <td>32.73</td> <td>43.68</td> <td>8.96</td> <td>33.86 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>6</td> <td>17235.000</td> <td>66.46</td> <td>-17.08</td> <td>83.54</td> <td>47.68</td> <td>43.68</td> <td>8.96</td> <td>33.86 Peak</td> <td>---</td> <td>---</td> </tr> </tbody> </table>											Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table	Limit	Line	Level	Factor	Loss	Factor	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Pos	Pos	1	7781.000	50.11	-33.43	83.54	42.15	37.56	5.48	35.08 Peak	---	---	2	7781.000	36.47	-27.07	63.54	28.51	37.56	5.48	35.08 Average	---	---	3	11490.000	60.13	-23.41	83.54	49.04	39.17	6.36	34.44 Peak	---	---	4	11490.000	52.58	-10.96	63.54	41.49	39.17	6.36	34.44 Average	---	---	5	17235.000	51.51	-12.03	63.54	32.73	43.68	8.96	33.86 Average	---	---	6	17235.000	66.46	-17.08	83.54	47.68	43.68	8.96	33.86 Peak	---	---
Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table																																																																																														
		Limit	Line	Level	Factor	Loss	Factor																																																																																																	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		Pos	Pos																																																																																														
1	7781.000	50.11	-33.43	83.54	42.15	37.56	5.48	35.08 Peak	---	---																																																																																														
2	7781.000	36.47	-27.07	63.54	28.51	37.56	5.48	35.08 Average	---	---																																																																																														
3	11490.000	60.13	-23.41	83.54	49.04	39.17	6.36	34.44 Peak	---	---																																																																																														
4	11490.000	52.58	-10.96	63.54	41.49	39.17	6.36	34.44 Average	---	---																																																																																														
5	17235.000	51.51	-12.03	63.54	32.73	43.68	8.96	33.86 Average	---	---																																																																																														
6	17235.000	66.46	-17.08	83.54	47.68	43.68	8.96	33.86 Peak	---	---																																																																																														

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

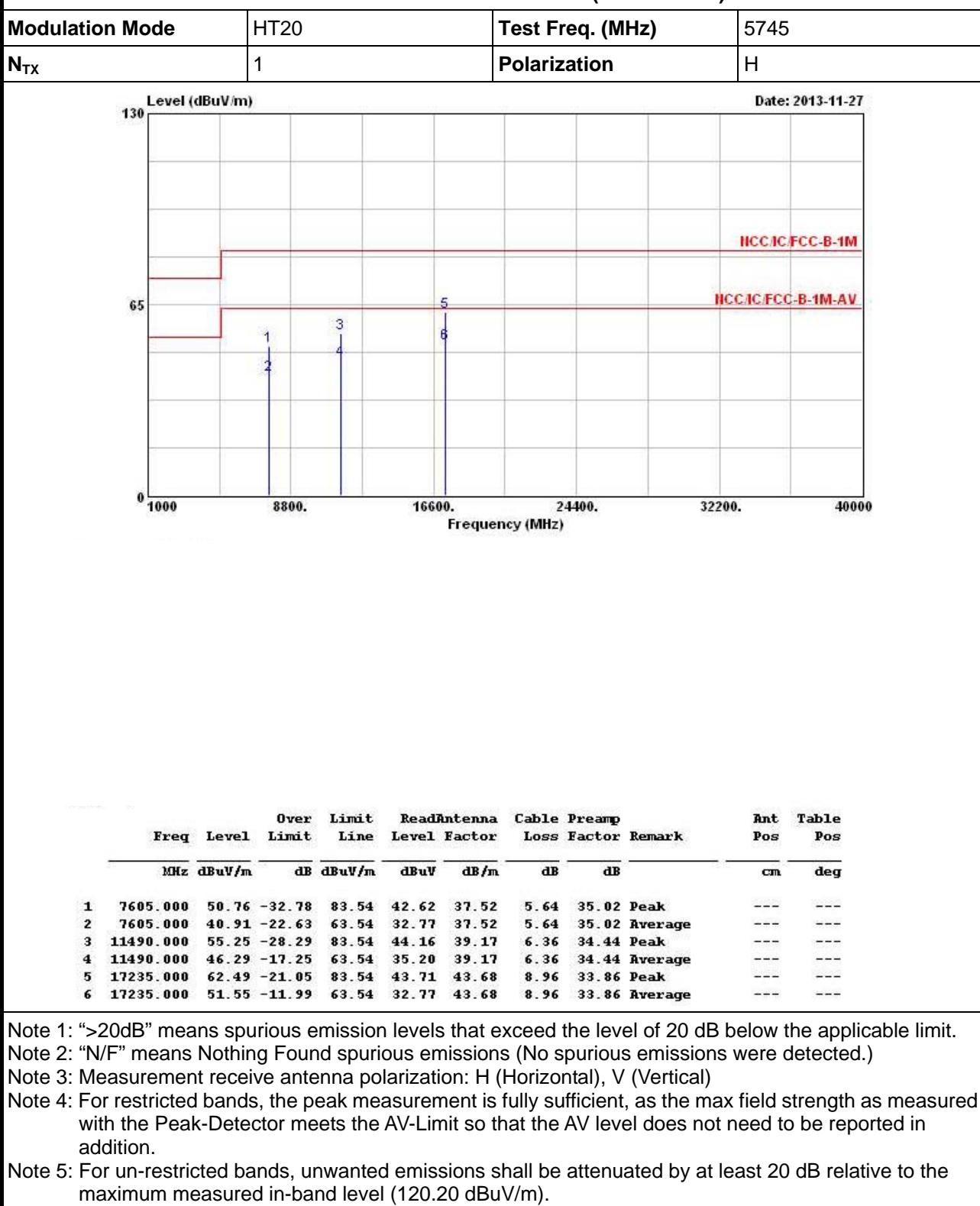
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.20 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5785						
N <sub>TX</sub>	1	Polarization	V						
Level (dB <sub>UV</sub> /m)			Date: 2013-11-27						
Freq	Level	Over Limit	Line	Read	Antenna	Cable	Preamp	Ant Pos	Table Pos
MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub>	dB/m	dB	dB	cm	deg
1 7550.000	50.43	-33.11	83.54	42.25	37.51	5.68	35.01 Peak	---	---
2 7550.000	36.83	-26.71	63.54	28.65	37.51	5.68	35.01 Average	---	---
3 11570.000	59.95	-23.59	83.54	48.85	39.19	6.44	34.53 Peak	---	---
4 11570.000	52.43	-11.11	63.54	41.33	39.19	6.44	34.53 Average	---	---
5 17355.000	62.56	-20.98	83.54	42.91	44.52	8.94	33.81 Peak	---	---
6 17355.000	51.20	-12.34	63.54	31.55	44.52	8.94	33.81 Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.60 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	H

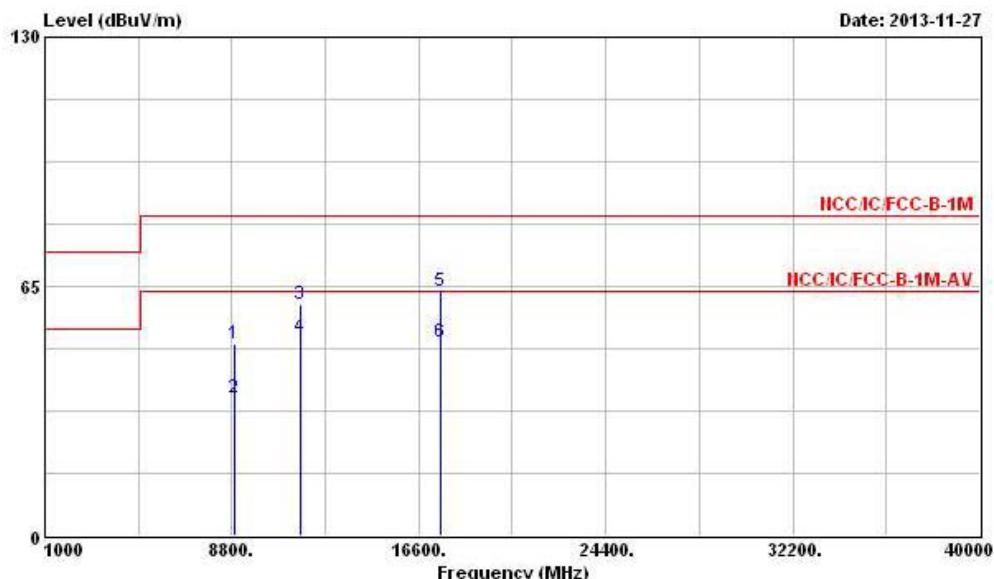
Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
		Limit	Line	Antenna	Level	Level	Factor			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 8617.000	50.64	-32.90	83.54	42.42	37.76	5.58	35.12	Peak	---	---
2 8617.000	36.00	-27.54	63.54	27.78	37.76	5.58	35.12	Average	---	---
3 11570.000	56.79	-26.75	83.54	45.69	39.19	6.44	34.53	Peak	---	---
4 11570.000	47.02	-16.52	63.54	35.92	39.19	6.44	34.53	Average	---	---
5 17355.000	62.04	-21.50	83.54	42.39	44.52	8.94	33.81	Peak	---	---
6 17355.000	50.64	-12.90	63.54	30.99	44.52	8.94	33.81	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.60 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT20	Test Freq. (MHz)	5825
$N_{TX}$	1	Polarization	V



Freq	Level	Over Limit		ReadAntenna		Cable Preamp			Ant Pos	Table Pos	
		MHz	dBuV/m	dB	Line	Level	Factor	Loss	Factor	Remark	
1	8881.000	50.07	-33.47	83.54	41.24	38.14	5.86	35.17	Peak	---	---
2	8881.000	35.95	-27.59	63.54	27.12	38.14	5.86	35.17	Average	---	---
3	11650.000	60.23	-23.31	83.54	49.12	39.17	6.52	34.58	Peak	---	---
4	11650.000	51.79	-11.75	63.54	40.68	39.17	6.52	34.58	Average	---	---
5	17475.000	63.93	-19.61	83.54	43.40	45.36	8.92	33.75	Peak	---	---
6	17475.000	50.50	-13.04	63.54	29.97	45.36	8.92	33.75	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.14 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

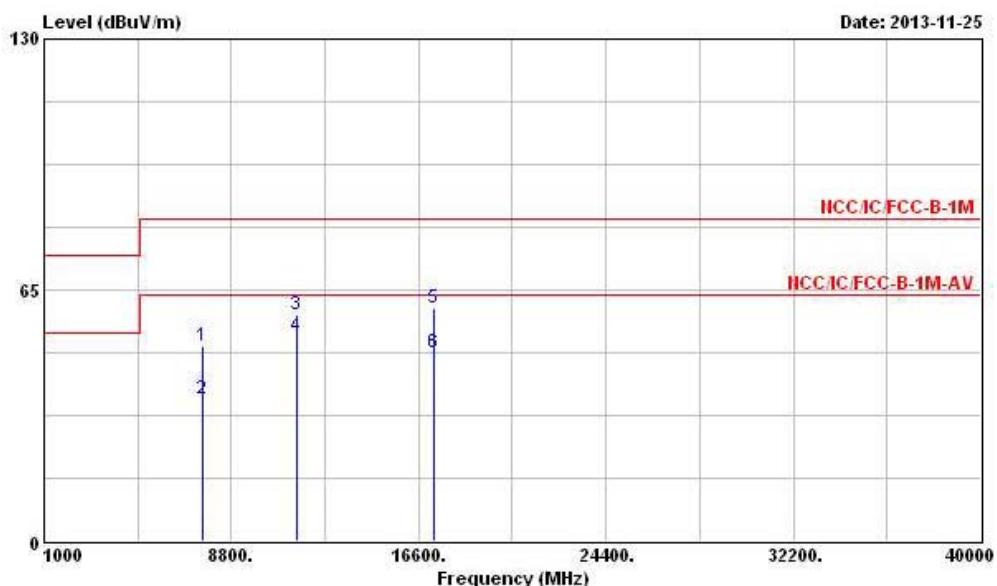
Modulation Mode	HT20	Test Freq. (MHz)	5825																																																																																
N <sub>TX</sub>	1	Polarization	H																																																																																
Level (dBuV/m)			Date: 2013-11-27																																																																																
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>Ant Pos</th> <th>Table Pos</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1 7693.000</td> <td>51.28</td> <td>-32.26</td> <td>83.54</td> <td>43.25</td> <td>37.54</td> <td>5.54</td> <td>35.05</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>2 7693.000</td> <td>36.61</td> <td>-26.93</td> <td>63.54</td> <td>28.58</td> <td>37.54</td> <td>5.54</td> <td>35.05</td> <td>Average</td> <td>---</td> </tr> <tr> <td>3 11650.000</td> <td>55.26</td> <td>-28.28</td> <td>83.54</td> <td>44.15</td> <td>39.17</td> <td>6.52</td> <td>34.58</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4 11650.000</td> <td>47.55</td> <td>-15.99</td> <td>63.54</td> <td>36.44</td> <td>39.17</td> <td>6.52</td> <td>34.58</td> <td>Average</td> <td>---</td> </tr> <tr> <td>5 17475.000</td> <td>63.39</td> <td>-20.15</td> <td>83.54</td> <td>42.86</td> <td>45.36</td> <td>8.92</td> <td>33.75</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>6 17475.000</td> <td>51.03</td> <td>-12.51</td> <td>63.54</td> <td>30.50</td> <td>45.36</td> <td>8.92</td> <td>33.75</td> <td>Average</td> <td>---</td> </tr> </tbody> </table>				Freq	Level	Over Limit	Limit	Read	Antenna	Cable	Preamp	Ant Pos	Table Pos	MHz	dBuV/m	dB	dBuV/m	dBuV	Level	Factor	Loss	Factor	Remark	1 7693.000	51.28	-32.26	83.54	43.25	37.54	5.54	35.05	Peak	---	2 7693.000	36.61	-26.93	63.54	28.58	37.54	5.54	35.05	Average	---	3 11650.000	55.26	-28.28	83.54	44.15	39.17	6.52	34.58	Peak	---	4 11650.000	47.55	-15.99	63.54	36.44	39.17	6.52	34.58	Average	---	5 17475.000	63.39	-20.15	83.54	42.86	45.36	8.92	33.75	Peak	---	6 17475.000	51.03	-12.51	63.54	30.50	45.36	8.92	33.75	Average	---
Freq	Level	Over Limit	Limit	Read	Antenna	Cable	Preamp	Ant Pos	Table Pos																																																																										
MHz	dBuV/m	dB	dBuV/m	dBuV	Level	Factor	Loss	Factor	Remark																																																																										
1 7693.000	51.28	-32.26	83.54	43.25	37.54	5.54	35.05	Peak	---																																																																										
2 7693.000	36.61	-26.93	63.54	28.58	37.54	5.54	35.05	Average	---																																																																										
3 11650.000	55.26	-28.28	83.54	44.15	39.17	6.52	34.58	Peak	---																																																																										
4 11650.000	47.55	-15.99	63.54	36.44	39.17	6.52	34.58	Average	---																																																																										
5 17475.000	63.39	-20.15	83.54	42.86	45.36	8.92	33.75	Peak	---																																																																										
6 17475.000	51.03	-12.51	63.54	30.50	45.36	8.92	33.75	Average	---																																																																										

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.14 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over Limit	Limit Line	Read		Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
				Antenna Level	Factor					
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 7605.000	50.61	-32.93	83.54	42.47	37.52	5.64	35.02	Peak	---	---
2 7605.000	36.80	-26.74	63.54	28.66	37.52	5.64	35.02	Average	---	---
3 11510.000	58.44	-25.10	83.54	47.36	39.20	6.36	34.48	Peak	---	---
4 11510.000	53.10	-10.44	63.54	42.02	39.20	6.36	34.48	Average	---	---
5 17265.000	60.42	-23.12	83.54	41.39	43.92	8.95	33.84	Peak	---	---
6 17265.000	48.66	-14.88	63.54	29.63	43.92	8.95	33.84	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

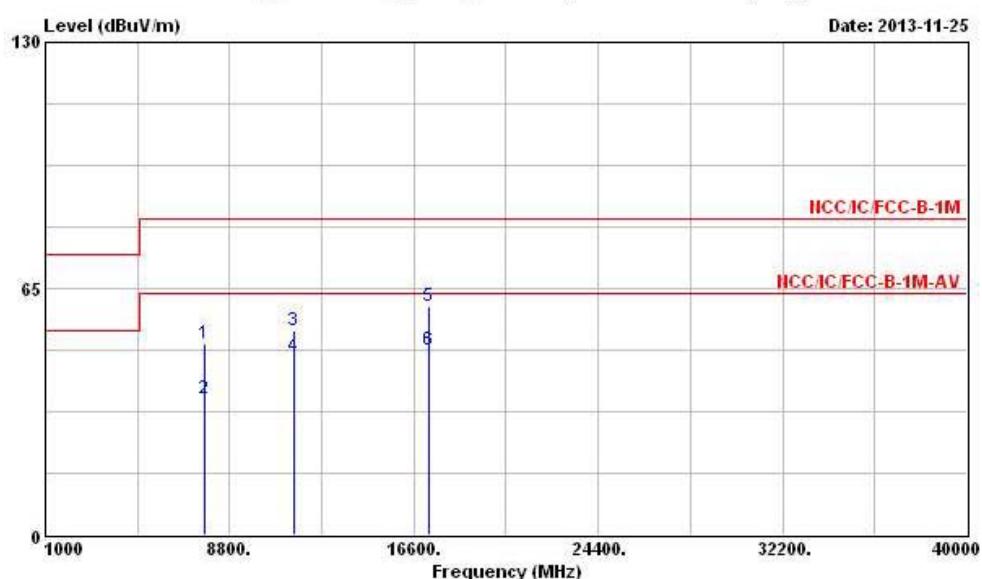
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (117.70 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over Limit	Line	ReadAntenna		Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
				Level	Factor					
MHz	dBuV/m		dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 7737.000	50.41	-33.13	83.54	42.42	37.55	5.51	35.07	Peak	---	---
2 7737.000	36.09	-27.45	63.54	28.10	37.55	5.51	35.07	Average	---	---
3 11510.000	53.98	-29.56	83.54	42.90	39.20	6.36	34.48	Peak	---	---
4 11510.000	46.93	-16.61	63.54	35.85	39.20	6.36	34.48	Average	---	---
5 17265.000	60.21	-23.33	83.54	41.18	43.92	8.95	33.84	Peak	---	---
6 17265.000	48.71	-14.83	63.54	29.68	43.92	8.95	33.84	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

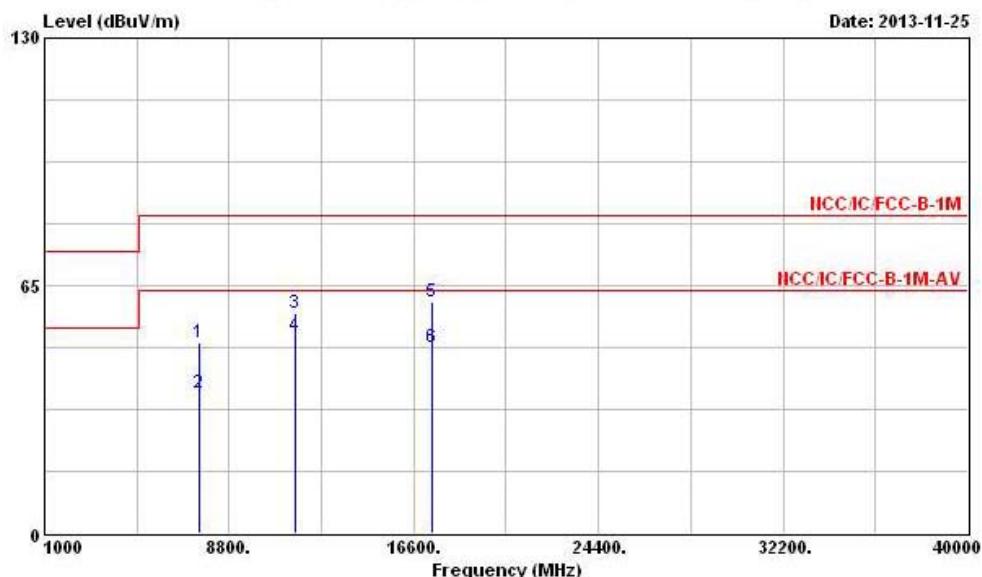
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (117.70 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5795
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table
		Limit	Line	Antenna	Cable	Loss	Factor		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 7561.000	49.87	-33.67	83.54	41.69	37.51	5.68	35.01 Peak	---	---
2 7561.000	36.58	-26.96	63.54	28.40	37.51	5.68	35.01 Average	---	---
3 11590.000	57.80	-25.74	83.54	46.67	39.18	6.48	34.53 Peak	---	---
4 11590.000	51.81	-11.73	63.54	40.68	39.18	6.48	34.53 Average	---	---
5 17385.000	60.62	-22.92	83.54	40.72	44.76	8.93	33.79 Peak	---	---
6 17385.000	48.72	-14.82	63.54	28.82	44.76	8.93	33.79 Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

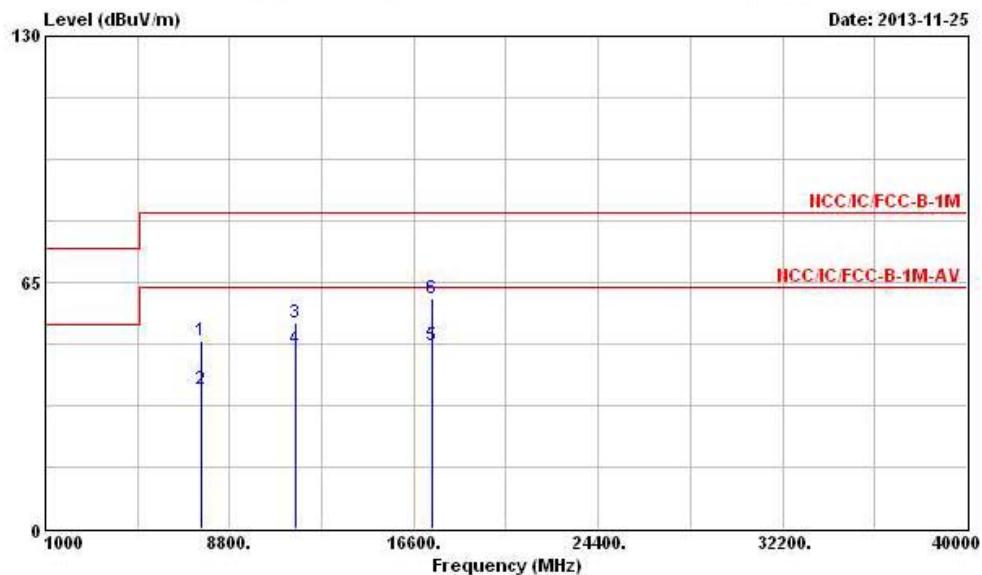
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (116.75 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	HT40	Test Freq. (MHz)	5795
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table
		Limit	Line	Level	Factor	Cable	Preamp		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 7605.000	49.79	-33.75	83.54	41.65	37.52	5.64	35.02	Peak	---
2 7605.000	36.79	-26.75	63.54	28.65	37.52	5.64	35.02	Average	---
3 11590.000	54.38	-29.16	83.54	43.25	39.18	6.48	34.53	Peak	---
4 11590.000	47.53	-16.01	63.54	36.40	39.18	6.48	34.53	Average	---
5 17385.000	48.39	-15.15	63.54	28.49	44.76	8.93	33.79	Average	---
6 17385.000	60.55	-22.99	83.54	40.65	44.76	8.93	33.79	Peak	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

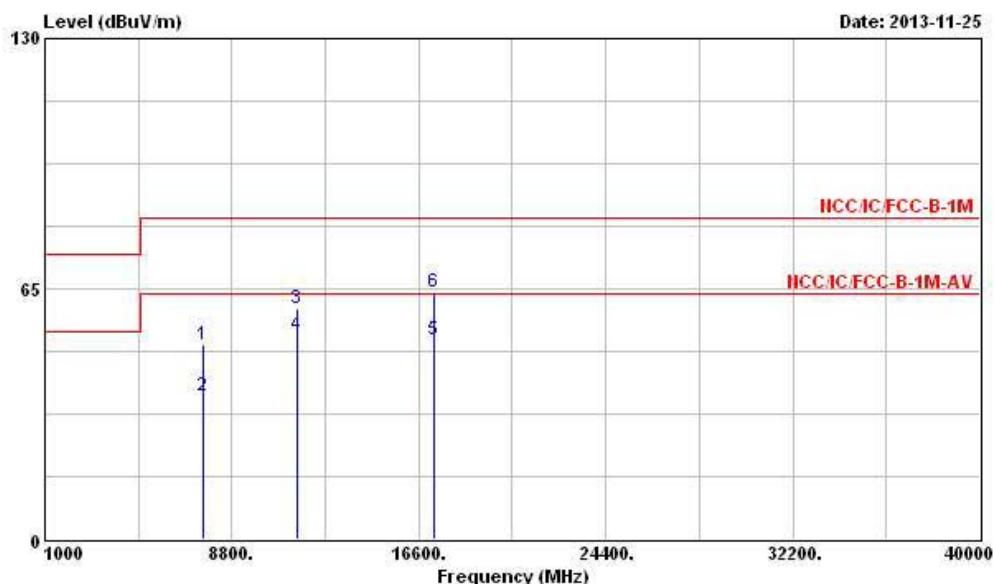
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (116.75 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5745
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over Limit	Limit Line	Read Antenna		Cable Preamp		Ant Pos	Table Pos
				MHz	dBuV/m	dB	dBuV/m	dB	dB
1	7605.000	50.58	-32.96	83.54	42.44	37.52	5.64	35.02	Peak
2	7605.000	37.38	-26.16	63.54	29.24	37.52	5.64	35.02	Average
3	11490.000	60.01	-23.53	83.54	48.92	39.17	6.36	34.44	Peak
4	11490.000	53.18	-10.36	63.54	42.09	39.17	6.36	34.44	Average
5	17235.000	51.85	-11.69	63.54	33.07	43.68	8.96	33.86	Average
6	17235.000	64.34	-19.20	83.54	45.56	43.68	8.96	33.86	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

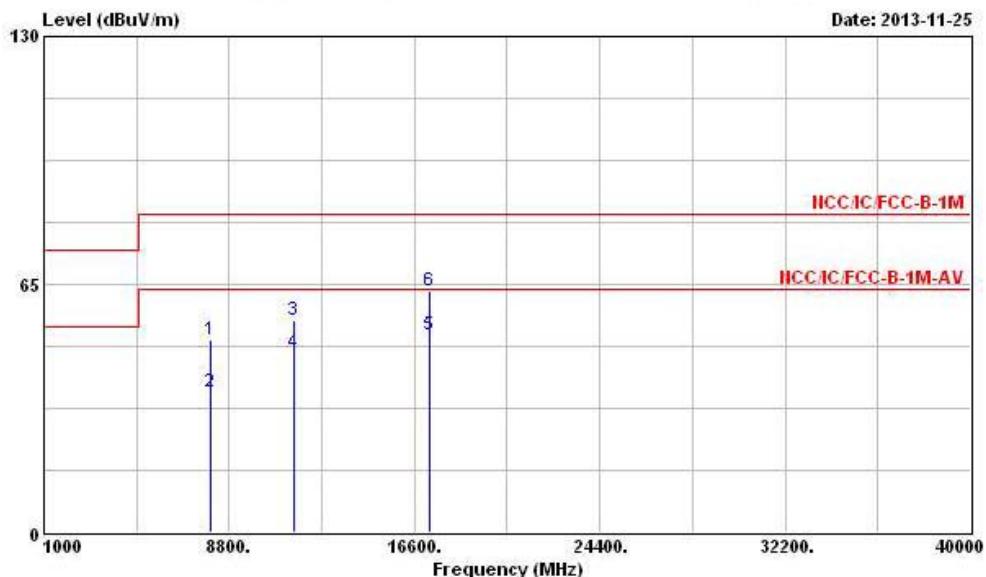
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.10 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5745
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
		Limit	Line	Antenna	Cable	Loss	Factor			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 8034.000	50.53	-33.01	83.54	42.77	37.60	5.32	35.16	Peak	---	---
2 8034.000	36.89	-26.65	63.54	29.13	37.60	5.32	35.16	Average	---	---
3 11490.000	55.60	-27.94	83.54	44.51	39.17	6.36	34.44	Peak	---	---
4 11490.000	46.88	-16.66	63.54	35.79	39.17	6.36	34.44	Average	---	---
5 17235.000	51.68	-11.86	63.54	32.90	43.68	8.96	33.86	Average	---	---
6 17235.000	63.27	-20.27	83.54	44.49	43.68	8.96	33.86	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

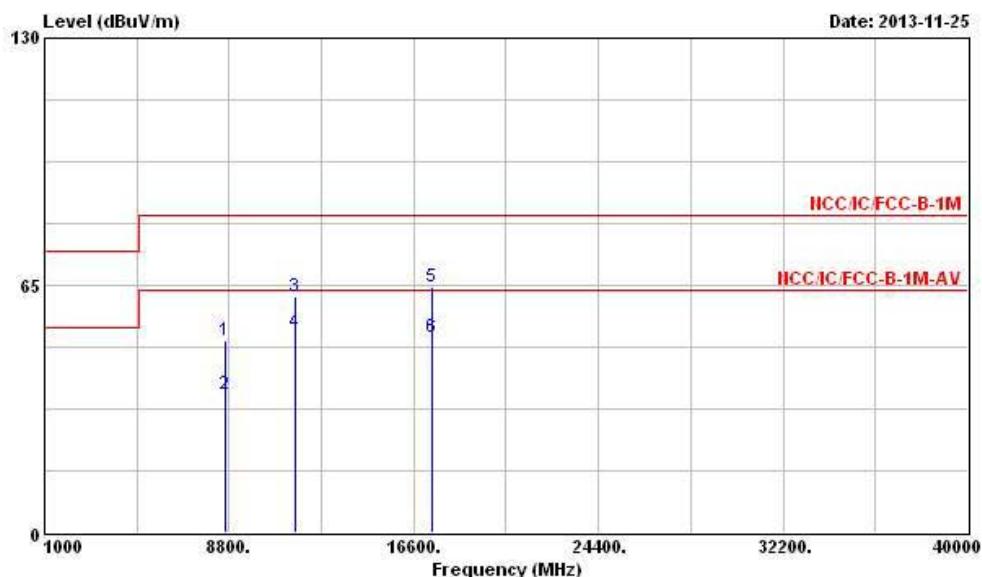
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.10 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
		Limit	Line	Level	Factor	Cable	Preamp		Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 8606.000	50.54	-33.00	83.54	42.33	37.74	5.58	35.11	Peak	---	---
2 8606.000	36.32	-27.22	63.54	28.11	37.74	5.58	35.11	Average	---	---
3 11570.000	62.01	-21.53	83.54	50.91	39.19	6.44	34.53	Peak	---	---
4 11570.000	52.66	-10.88	63.54	41.56	39.19	6.44	34.53	Average	---	---
5 17355.000	64.41	-19.13	83.54	44.76	44.52	8.94	33.81	Peak	---	---
6 17355.000	51.29	-12.25	63.54	31.64	44.52	8.94	33.81	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

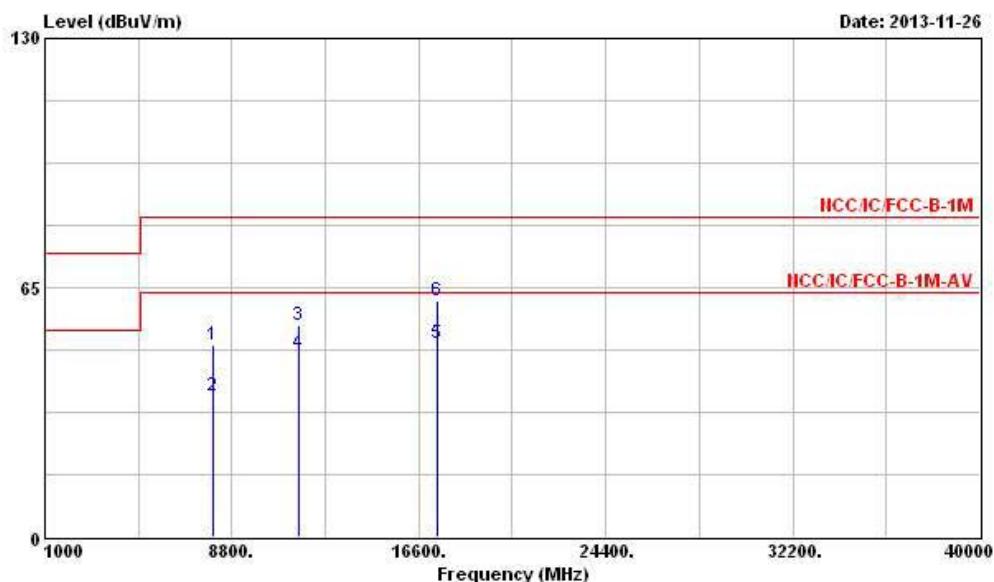
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.35 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

<b>Modulation Mode</b>	VHT20	<b>Test Freq. (MHz)</b>	5785
<b>N<sub>TX</sub></b>	1	<b>Polarization</b>	H



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table	
		Limit	Line	Level	Factor	Loss	Factor				
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8034.000	49.98	-33.56	83.54	42.22	37.60	5.32	35.16	Peak	---	---
2	8034.000	36.83	-26.71	63.54	29.07	37.60	5.32	35.16	Average	---	---
3	11570.000	55.34	-28.20	83.54	44.24	39.19	6.44	34.53	Peak	---	---
4	11570.000	48.00	-15.54	63.54	36.90	39.19	6.44	34.53	Average	---	---
5	17355.000	50.66	-12.88	63.54	31.01	44.52	8.94	33.81	Average	---	---
6	17355.000	61.71	-21.83	83.54	42.06	44.52	8.94	33.81	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

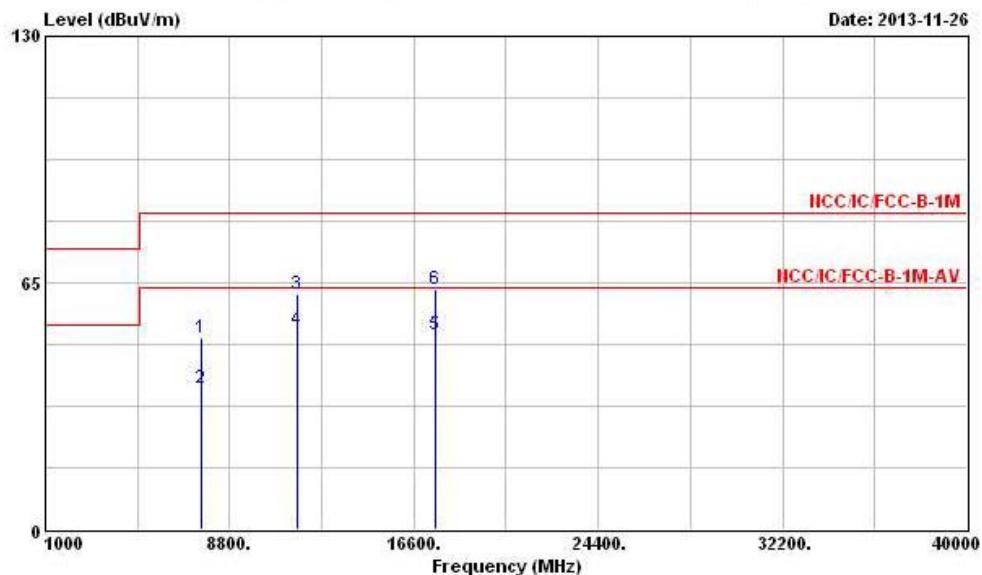
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.35 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) – Mode 1

Modulation Mode	VHT20	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
		Limit	Line	Level	Factor	Cable	Preamp		Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 7605.000	50.28	-33.26	83.54	42.14	37.52	5.64	35.02	Peak	---	---
2 7605.000	37.30	-26.24	63.54	29.16	37.52	5.64	35.02	Average	---	---
3 11650.000	62.04	-21.50	83.54	50.93	39.17	6.52	34.58	Peak	---	---
4 11650.000	52.51	-11.03	63.54	41.40	39.17	6.52	34.58	Average	---	---
5 17475.000	51.39	-12.15	63.54	30.86	45.36	8.92	33.75	Average	---	---
6 17475.000	63.28	-20.26	83.54	42.75	45.36	8.92	33.75	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (118.97 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) – Mode 1

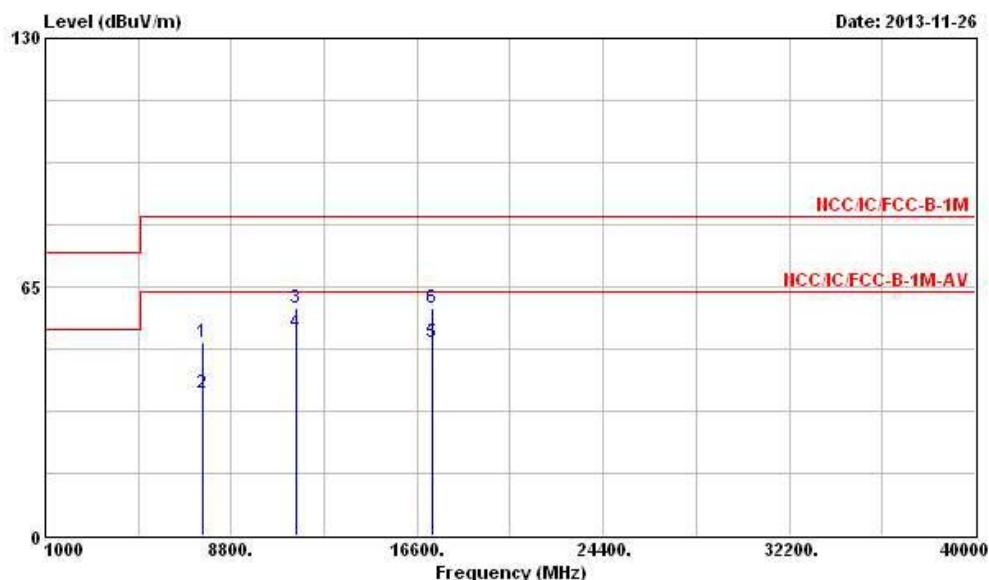
Modulation Mode	VHT20	Test Freq. (MHz)	5825																																																																																								
N <sub>TX</sub>	1	Polarization	H																																																																																								
Level (dBuV/m)			Date: 2013-11-26																																																																																								
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Line</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>Remark</th> <th>Ant Pos</th> <th>Table Pos</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7693.000</td> <td>51.43</td> <td>-32.11</td> <td>83.54</td> <td>43.40</td> <td>37.54</td> <td>5.54</td> <td>35.05</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2 7693.000</td> <td>37.04</td> <td>-26.50</td> <td>63.54</td> <td>29.01</td> <td>37.54</td> <td>5.54</td> <td>35.05</td> <td>Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>3 11650.000</td> <td>56.38</td> <td>-27.16</td> <td>83.54</td> <td>45.27</td> <td>39.17</td> <td>6.52</td> <td>34.58</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4 11650.000</td> <td>47.95</td> <td>-15.59</td> <td>63.54</td> <td>36.84</td> <td>39.17</td> <td>6.52</td> <td>34.58</td> <td>Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>5 17475.000</td> <td>63.16</td> <td>-20.38</td> <td>83.54</td> <td>42.63</td> <td>45.36</td> <td>8.92</td> <td>33.75</td> <td>Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>6 17475.000</td> <td>51.50</td> <td>-12.04</td> <td>63.54</td> <td>30.97</td> <td>45.36</td> <td>8.92</td> <td>33.75</td> <td>Average</td> <td>---</td> <td>---</td> </tr> </tbody> </table>				Freq	Level	Over Limit	Line	Read	Antenna	Cable	Preamp	Remark	Ant Pos	Table Pos	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg	1 7693.000	51.43	-32.11	83.54	43.40	37.54	5.54	35.05	Peak	---	---	2 7693.000	37.04	-26.50	63.54	29.01	37.54	5.54	35.05	Average	---	---	3 11650.000	56.38	-27.16	83.54	45.27	39.17	6.52	34.58	Peak	---	---	4 11650.000	47.95	-15.59	63.54	36.84	39.17	6.52	34.58	Average	---	---	5 17475.000	63.16	-20.38	83.54	42.63	45.36	8.92	33.75	Peak	---	---	6 17475.000	51.50	-12.04	63.54	30.97	45.36	8.92	33.75	Average	---	---
Freq	Level	Over Limit	Line	Read	Antenna	Cable	Preamp	Remark	Ant Pos	Table Pos																																																																																	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg																																																																																	
1 7693.000	51.43	-32.11	83.54	43.40	37.54	5.54	35.05	Peak	---	---																																																																																	
2 7693.000	37.04	-26.50	63.54	29.01	37.54	5.54	35.05	Average	---	---																																																																																	
3 11650.000	56.38	-27.16	83.54	45.27	39.17	6.52	34.58	Peak	---	---																																																																																	
4 11650.000	47.95	-15.59	63.54	36.84	39.17	6.52	34.58	Average	---	---																																																																																	
5 17475.000	63.16	-20.38	83.54	42.63	45.36	8.92	33.75	Peak	---	---																																																																																	
6 17475.000	51.50	-12.04	63.54	30.97	45.36	8.92	33.75	Average	---	---																																																																																	

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (118.97 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT40	Test Freq. (MHz)	5755
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
		Line	Limit	Antenna	Cable	Cable	Preamp			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 7620.000	50.60	-32.94	83.54	42.50	37.52	5.61	35.03	Peak	---	---
2 7620.000	37.14	-26.40	63.54	29.04	37.52	5.61	35.03	Average	---	---
3 11510.000	59.41	-24.13	83.54	48.33	39.20	6.36	34.48	Peak	---	---
4 11510.000	53.23	-10.31	63.54	42.15	39.20	6.36	34.48	Average	---	---
5 17265.000	50.58	-12.96	63.54	31.55	43.92	8.95	33.84	Average	---	---
6 17265.000	59.47	-24.07	83.54	40.44	43.92	8.95	33.84	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (117.48 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

Modulation Mode	VHT40	Test Freq. (MHz)	5755																																																																																	
N <sub>TX</sub>	1	Polarization	H																																																																																	
Level (dB <sub>UV</sub> /m)			Date: 2013-11-26																																																																																	
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Line</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>Ant</th> <th>Table</th> </tr> <tr> <th>MHz</th> <th>dB<sub>UV</sub>/m</th> <th>dB</th> <th>dB<sub>UV</sub>/m</th> <th>dB<sub>UV</sub></th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>Pos</th> <th>Pos</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7550.000</td> <td>50.55</td> <td>-32.99</td> <td>83.54</td> <td>42.37</td> <td>37.51</td> <td>5.68</td> <td>35.01</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>7550.000</td> <td>36.95</td> <td>-26.59</td> <td>63.54</td> <td>28.77</td> <td>37.51</td> <td>5.68</td> <td>35.01</td> <td>Average</td> </tr> <tr> <td>3</td> <td>11510.000</td> <td>57.00</td> <td>-26.54</td> <td>83.54</td> <td>45.92</td> <td>39.20</td> <td>6.36</td> <td>34.48</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>11510.000</td> <td>46.94</td> <td>-16.60</td> <td>63.54</td> <td>35.86</td> <td>39.20</td> <td>6.36</td> <td>34.48</td> <td>Average</td> </tr> <tr> <td>5</td> <td>17265.000</td> <td>50.33</td> <td>-13.21</td> <td>63.54</td> <td>31.30</td> <td>43.92</td> <td>8.95</td> <td>33.84</td> <td>Average</td> </tr> <tr> <td>6</td> <td>17265.000</td> <td>61.94</td> <td>-21.60</td> <td>83.54</td> <td>42.91</td> <td>43.92</td> <td>8.95</td> <td>33.84</td> <td>Peak</td> </tr> </tbody> </table>	Freq	Level	Over Limit	Line	Read	Antenna	Cable	Preamp	Ant	Table	MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub>	dB/m	dB	dB	Pos	Pos	1	7550.000	50.55	-32.99	83.54	42.37	37.51	5.68	35.01	Peak	2	7550.000	36.95	-26.59	63.54	28.77	37.51	5.68	35.01	Average	3	11510.000	57.00	-26.54	83.54	45.92	39.20	6.36	34.48	Peak	4	11510.000	46.94	-16.60	63.54	35.86	39.20	6.36	34.48	Average	5	17265.000	50.33	-13.21	63.54	31.30	43.92	8.95	33.84	Average	6	17265.000	61.94	-21.60	83.54	42.91	43.92	8.95	33.84	Peak			cm	deg
Freq	Level	Over Limit	Line	Read	Antenna	Cable	Preamp	Ant	Table																																																																											
MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub>	dB/m	dB	dB	Pos	Pos																																																																											
1	7550.000	50.55	-32.99	83.54	42.37	37.51	5.68	35.01	Peak																																																																											
2	7550.000	36.95	-26.59	63.54	28.77	37.51	5.68	35.01	Average																																																																											
3	11510.000	57.00	-26.54	83.54	45.92	39.20	6.36	34.48	Peak																																																																											
4	11510.000	46.94	-16.60	63.54	35.86	39.20	6.36	34.48	Average																																																																											
5	17265.000	50.33	-13.21	63.54	31.30	43.92	8.95	33.84	Average																																																																											
6	17265.000	61.94	-21.60	83.54	42.91	43.92	8.95	33.84	Peak																																																																											

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

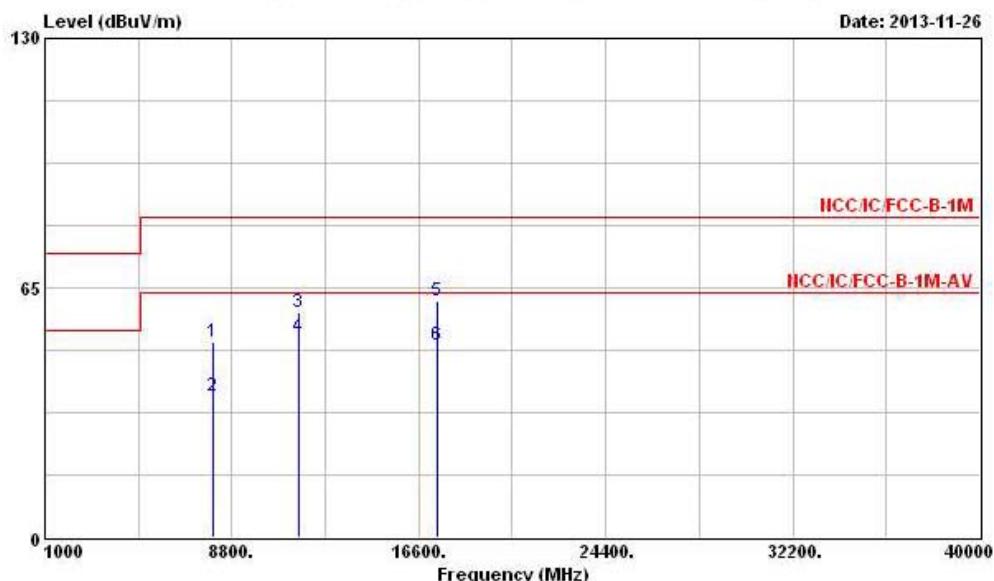
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (117.48 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

<b>Modulation Mode</b>	VHT40	<b>Test Freq. (MHz)</b>	5795
<b>N<sub>TX</sub></b>	1	<b>Polarization</b>	V



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
		Line	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 8045.000	50.99	-32.55	83.54	43.22	37.60	5.33	35.16	Peak	---	---
2 8045.000	36.65	-26.89	63.54	28.88	37.60	5.33	35.16	Average	---	---
3 11590.000	58.76	-24.78	83.54	47.63	39.18	6.48	34.53	Peak	---	---
4 11590.000	52.33	-11.21	63.54	41.20	39.18	6.48	34.53	Average	---	---
5 17385.000	61.69	-21.85	83.54	41.79	44.76	8.93	33.79	Peak	---	---
6 17385.000	50.13	-13.41	63.54	30.23	44.76	8.93	33.79	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (115.76 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 1

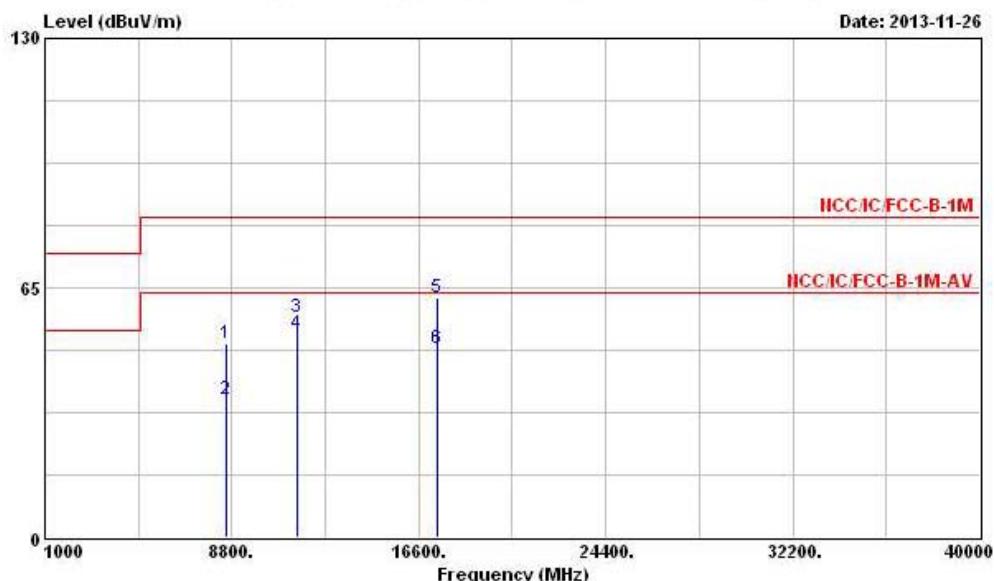
Modulation Mode	VHT40	Test Freq. (MHz)	5795																																																																																
N <sub>TX</sub>	1	Polarization	H																																																																																
Level (dB <sub>UV</sub> /m)			Date: 2013-11-26																																																																																
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Line</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>Ant Pos</th> <th>Table Pos</th> </tr> <tr> <th>MHz</th> <th>dB<sub>UV</sub>/m</th> <th>dB</th> <th>dB<sub>UV</sub>/m</th> <th>dB<sub>UV</sub></th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 7517.000</td> <td>50.32</td> <td>-33.22</td> <td>83.54</td> <td>42.11</td> <td>37.50</td> <td>5.71</td> <td>35.00 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2 7517.000</td> <td>36.64</td> <td>-26.90</td> <td>63.54</td> <td>28.43</td> <td>37.50</td> <td>5.71</td> <td>35.00 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>3 11590.000</td> <td>54.45</td> <td>-29.09</td> <td>83.54</td> <td>43.32</td> <td>39.18</td> <td>6.48</td> <td>34.53 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4 11590.000</td> <td>47.59</td> <td>-15.95</td> <td>63.54</td> <td>36.46</td> <td>39.18</td> <td>6.48</td> <td>34.53 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>5 17385.000</td> <td>49.48</td> <td>-14.06</td> <td>63.54</td> <td>29.58</td> <td>44.76</td> <td>8.93</td> <td>33.79 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>6 17385.000</td> <td>61.56</td> <td>-21.98</td> <td>83.54</td> <td>41.66</td> <td>44.76</td> <td>8.93</td> <td>33.79 Peak</td> <td>---</td> <td>---</td> </tr> </tbody> </table>				Freq	Level	Over Limit	Line	Read	Antenna	Cable	Preamp	Ant Pos	Table Pos	MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub>	dB/m	dB	dB	cm	deg	1 7517.000	50.32	-33.22	83.54	42.11	37.50	5.71	35.00 Peak	---	---	2 7517.000	36.64	-26.90	63.54	28.43	37.50	5.71	35.00 Average	---	---	3 11590.000	54.45	-29.09	83.54	43.32	39.18	6.48	34.53 Peak	---	---	4 11590.000	47.59	-15.95	63.54	36.46	39.18	6.48	34.53 Average	---	---	5 17385.000	49.48	-14.06	63.54	29.58	44.76	8.93	33.79 Average	---	---	6 17385.000	61.56	-21.98	83.54	41.66	44.76	8.93	33.79 Peak	---	---
Freq	Level	Over Limit	Line	Read	Antenna	Cable	Preamp	Ant Pos	Table Pos																																																																										
MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub>	dB/m	dB	dB	cm	deg																																																																										
1 7517.000	50.32	-33.22	83.54	42.11	37.50	5.71	35.00 Peak	---	---																																																																										
2 7517.000	36.64	-26.90	63.54	28.43	37.50	5.71	35.00 Average	---	---																																																																										
3 11590.000	54.45	-29.09	83.54	43.32	39.18	6.48	34.53 Peak	---	---																																																																										
4 11590.000	47.59	-15.95	63.54	36.46	39.18	6.48	34.53 Average	---	---																																																																										
5 17385.000	49.48	-14.06	63.54	29.58	44.76	8.93	33.79 Average	---	---																																																																										
6 17385.000	61.56	-21.98	83.54	41.66	44.76	8.93	33.79 Peak	---	---																																																																										

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (115.76 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) – Mode 1

Modulation Mode	VHT80	Test Freq. (MHz)	5775
$N_{TX}$	1	Polarization	V



Freq	Level	Over Limit		ReadAntenna		Cable Preamp		Ant Pos	Table Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m		
1	8562.000	50.46	-33.08	83.54	42.34	37.69	5.54	35.11	Peak
2	8562.000	36.09	-27.45	63.54	27.97	37.69	5.54	35.11	Average
3	11550.000	57.21	-26.33	83.54	46.09	39.19	6.44	34.51	Peak
4	11550.000	52.89	-10.65	63.54	41.77	39.19	6.44	34.51	Average
5	17385.000	62.39	-21.15	83.54	42.49	44.76	8.93	33.79	Peak
6	17385.000	49.28	-14.26	63.54	29.38	44.76	8.93	33.79	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (115.29 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) – Mode 1

Modulation Mode	VHT80	Test Freq. (MHz)	5775																																																																								
N <sub>TX</sub>	1	Polarization	H																																																																								
Level (dB <sub>UV</sub> /m)			Date: 2013-11-26																																																																								
<table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Line</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>Ant Pos</th> <th>Table Pos</th> </tr> <tr> <th>MHz</th> <th>dB<sub>UV</sub>/m</th> <th>dB</th> <th>dB<sub>UV</sub>/m</th> <th>dB<sub>UV</sub></th> <th>dB/m</th> <th>dB</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8078.000</td> <td>49.88</td> <td>-33.66</td> <td>83.54</td> <td>42.10</td> <td>37.60</td> <td>5.33</td> <td>35.15 Peak</td> </tr> <tr> <td>2</td> <td>8078.000</td> <td>36.55</td> <td>-26.99</td> <td>63.54</td> <td>28.77</td> <td>37.60</td> <td>5.33</td> <td>35.15 Average</td> </tr> <tr> <td>3</td> <td>11550.000</td> <td>54.31</td> <td>-29.23</td> <td>83.54</td> <td>43.19</td> <td>39.19</td> <td>6.44</td> <td>34.51 Peak</td> </tr> <tr> <td>4</td> <td>11550.000</td> <td>46.62</td> <td>-16.92</td> <td>63.54</td> <td>35.50</td> <td>39.19</td> <td>6.44</td> <td>34.51 Average</td> </tr> <tr> <td>5</td> <td>17325.000</td> <td>61.05</td> <td>-22.49</td> <td>83.54</td> <td>41.65</td> <td>44.28</td> <td>8.94</td> <td>33.82 Peak</td> </tr> <tr> <td>6</td> <td>17325.000</td> <td>49.43</td> <td>-14.11</td> <td>63.54</td> <td>30.03</td> <td>44.28</td> <td>8.94</td> <td>33.82 Average</td> </tr> </tbody> </table>				Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	Ant Pos	Table Pos	MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub>	dB/m	dB			1	8078.000	49.88	-33.66	83.54	42.10	37.60	5.33	35.15 Peak	2	8078.000	36.55	-26.99	63.54	28.77	37.60	5.33	35.15 Average	3	11550.000	54.31	-29.23	83.54	43.19	39.19	6.44	34.51 Peak	4	11550.000	46.62	-16.92	63.54	35.50	39.19	6.44	34.51 Average	5	17325.000	61.05	-22.49	83.54	41.65	44.28	8.94	33.82 Peak	6	17325.000	49.43	-14.11	63.54	30.03	44.28	8.94	33.82 Average
Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	Ant Pos	Table Pos																																																																			
MHz	dB <sub>UV</sub> /m	dB	dB <sub>UV</sub> /m	dB <sub>UV</sub>	dB/m	dB																																																																					
1	8078.000	49.88	-33.66	83.54	42.10	37.60	5.33	35.15 Peak																																																																			
2	8078.000	36.55	-26.99	63.54	28.77	37.60	5.33	35.15 Average																																																																			
3	11550.000	54.31	-29.23	83.54	43.19	39.19	6.44	34.51 Peak																																																																			
4	11550.000	46.62	-16.92	63.54	35.50	39.19	6.44	34.51 Average																																																																			
5	17325.000	61.05	-22.49	83.54	41.65	44.28	8.94	33.82 Peak																																																																			
6	17325.000	49.43	-14.11	63.54	30.03	44.28	8.94	33.82 Average																																																																			

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

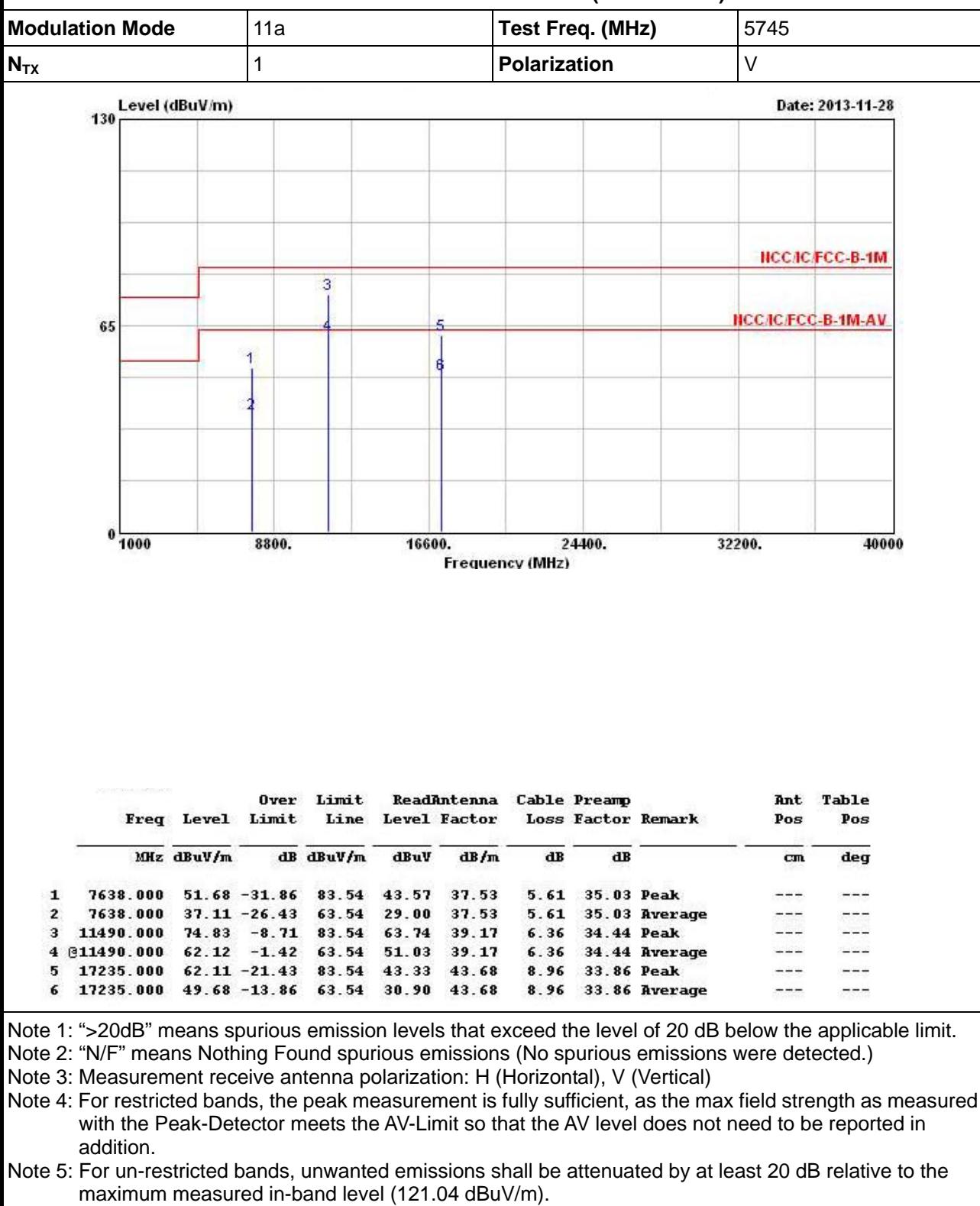
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (115.29 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

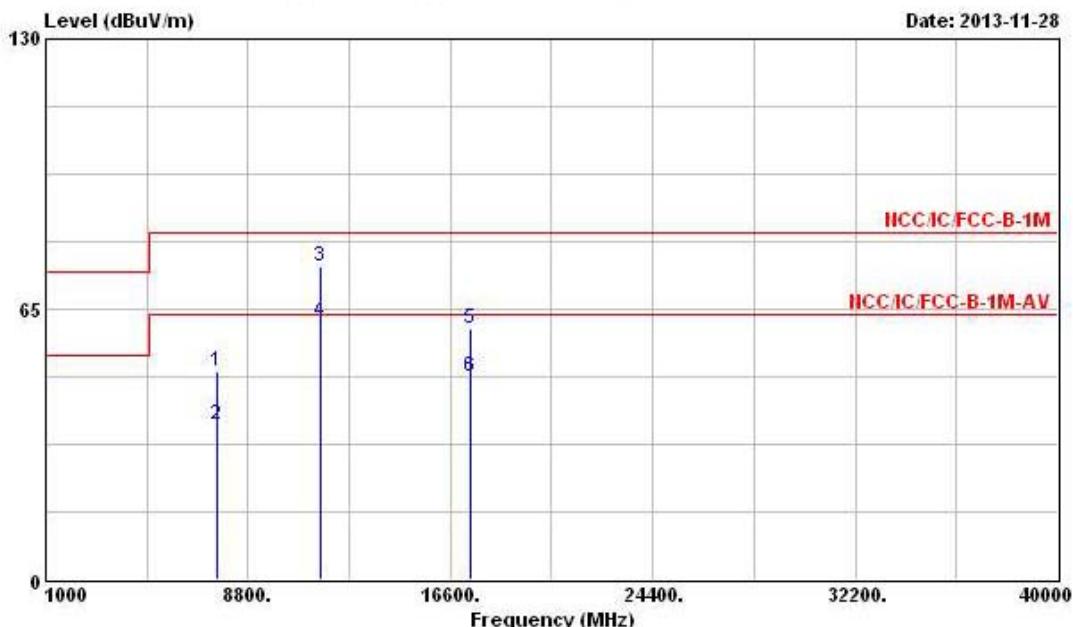
Modulation Mode	11a	Test Freq. (MHz)	5745																																																																																						
N <sub>TX</sub>	1	Polarization	H																																																																																						
Level (dBuV/m)			Date: 2013-11-28																																																																																						
			HCC/IC/FCC-B-1M																																																																																						
			HCC/IC/FCC-B-1M-AV																																																																																						
<table border="1"> <thead> <tr> <th rowspan="2">Freq</th> <th rowspan="2">Level</th> <th>Over</th> <th>Limit</th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th rowspan="2">Remark</th> <th>Ant</th> <th>Table</th> </tr> <tr> <th>Line</th> <th>Limit</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Pos</th> <th>Pos</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8606.000</td> <td>50.14</td> <td>-33.40</td> <td>83.54</td> <td>41.93</td> <td>37.74</td> <td>5.58</td> <td>35.11 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>2</td> <td>8606.000</td> <td>36.18</td> <td>-27.36</td> <td>63.54</td> <td>27.97</td> <td>37.74</td> <td>5.58</td> <td>35.11 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>3</td> <td>11490.000</td> <td>64.30</td> <td>-19.24</td> <td>83.54</td> <td>53.21</td> <td>39.17</td> <td>6.36</td> <td>34.44 Peak</td> <td>---</td> <td>---</td> </tr> <tr> <td>4</td> <td>11490.000</td> <td>50.09</td> <td>-13.45</td> <td>63.54</td> <td>39.00</td> <td>39.17</td> <td>6.36</td> <td>34.44 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>5</td> <td>17235.000</td> <td>50.22</td> <td>-13.32</td> <td>63.54</td> <td>31.44</td> <td>43.68</td> <td>8.96</td> <td>33.86 Average</td> <td>---</td> <td>---</td> </tr> <tr> <td>6</td> <td>17235.000</td> <td>63.64</td> <td>-19.90</td> <td>83.54</td> <td>44.86</td> <td>43.68</td> <td>8.96</td> <td>33.86 Peak</td> <td>---</td> <td>---</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table	Line	Limit	Level	Factor	Loss	Factor	Pos	Pos	1	8606.000	50.14	-33.40	83.54	41.93	37.74	5.58	35.11 Peak	---	---	2	8606.000	36.18	-27.36	63.54	27.97	37.74	5.58	35.11 Average	---	---	3	11490.000	64.30	-19.24	83.54	53.21	39.17	6.36	34.44 Peak	---	---	4	11490.000	50.09	-13.45	63.54	39.00	39.17	6.36	34.44 Average	---	---	5	17235.000	50.22	-13.32	63.54	31.44	43.68	8.96	33.86 Average	---	---	6	17235.000	63.64	-19.90	83.54	44.86	43.68	8.96	33.86 Peak	---	---			cm	deg
Freq			Level	Over	Limit	Read	Antenna	Cable		Preamp	Remark	Ant	Table																																																																												
	Line	Limit		Level	Factor	Loss	Factor	Pos	Pos																																																																																
1	8606.000	50.14	-33.40	83.54	41.93	37.74	5.58	35.11 Peak	---	---																																																																															
2	8606.000	36.18	-27.36	63.54	27.97	37.74	5.58	35.11 Average	---	---																																																																															
3	11490.000	64.30	-19.24	83.54	53.21	39.17	6.36	34.44 Peak	---	---																																																																															
4	11490.000	50.09	-13.45	63.54	39.00	39.17	6.36	34.44 Average	---	---																																																																															
5	17235.000	50.22	-13.32	63.54	31.44	43.68	8.96	33.86 Average	---	---																																																																															
6	17235.000	63.64	-19.90	83.54	44.86	43.68	8.96	33.86 Peak	---	---																																																																															

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.04 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over Limit	Line	Antenna		Cable Preamp			Ant Pos	Table Pos
				Read	Factor	Loss	Factor	Remark		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 7605.000	50.24	-33.30	83.54	42.10	37.52	5.64	35.02	Peak	---	---
2 7605.000	37.06	-26.48	63.54	28.92	37.52	5.64	35.02	Average	---	---
3 11570.000	75.06	-8.48	83.54	63.96	39.19	6.44	34.53	Peak	---	---
4 @11570.000	62.19	-1.35	63.54	51.09	39.19	6.44	34.53	Average	---	---
5 17355.000	60.43	-23.11	83.54	40.78	44.52	8.94	33.81	Peak	---	---
6 17355.000	48.62	-14.92	63.54	28.97	44.52	8.94	33.81	Average	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

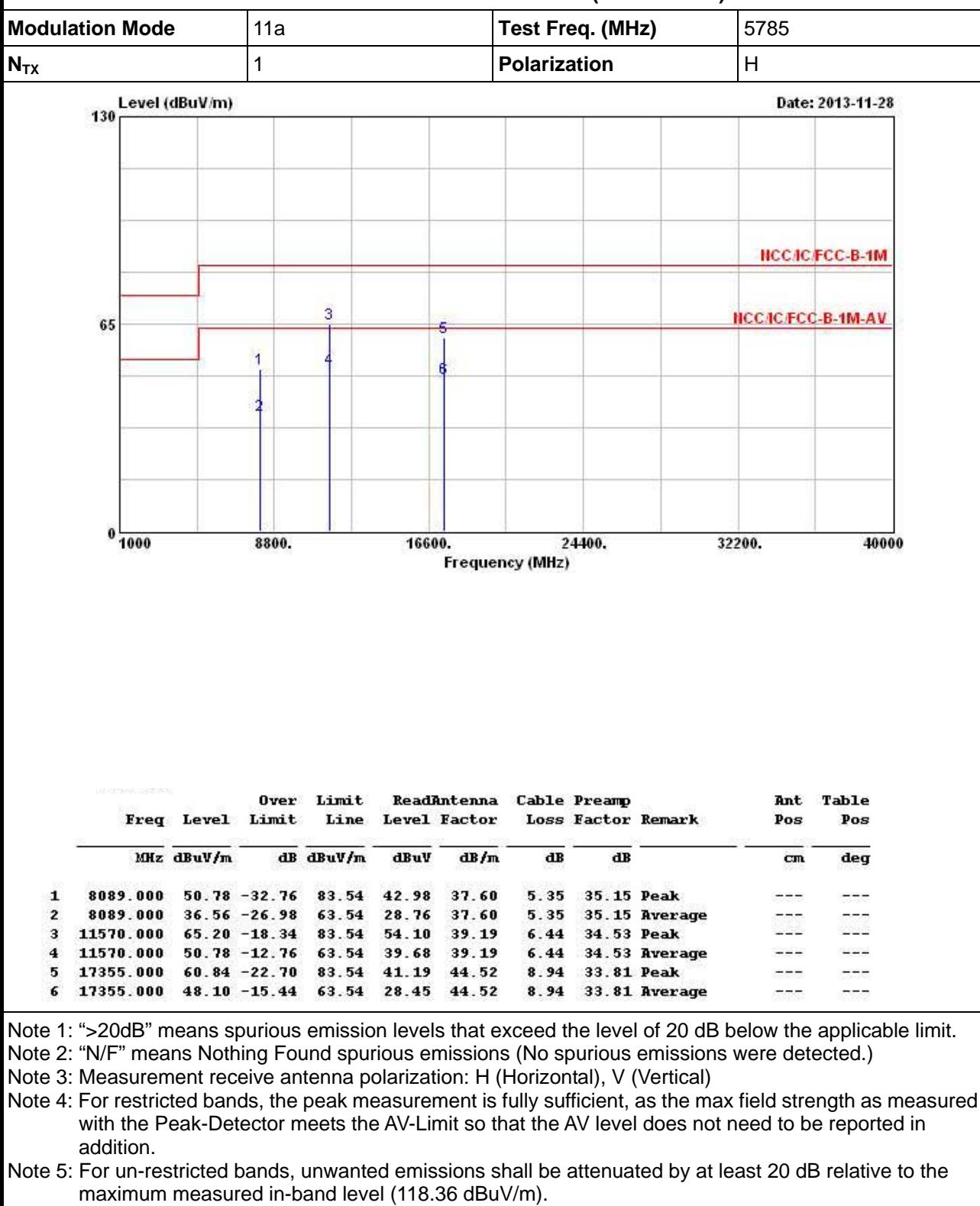
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (118.36 dBuV/m).



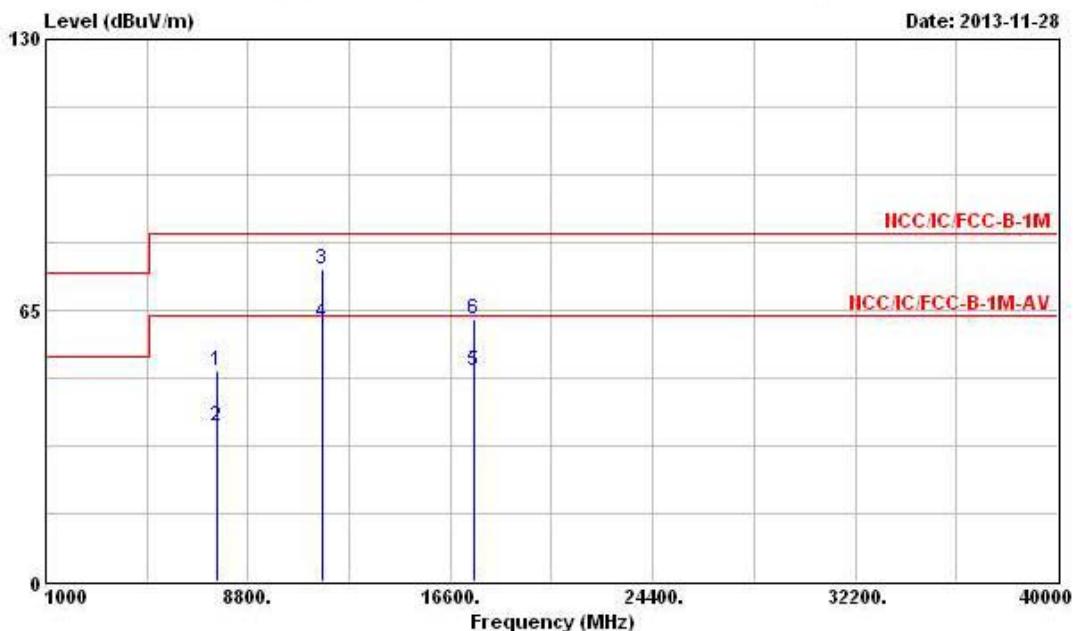
## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	11a	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over Limit	Line	Read		Ant	Table		
				Antenna	Level Factor			Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 7605.000	50.30	-33.24	83.54	42.16	37.52	5.64	35.02	Peak	---
2 7605.000	37.10	-26.44	63.54	28.96	37.52	5.64	35.02	Average	---
3 11650.000	74.74	-8.80	83.54	63.63	39.17	6.52	34.58	Peak	---
4 11650.000	61.81	-1.73	63.54	50.70	39.17	6.52	34.58	Average	---
5 17475.000	50.35	-13.19	63.54	29.82	45.36	8.92	33.75	Average	---
6 17475.000	62.83	-20.71	83.54	42.30	45.36	8.92	33.75	Peak	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

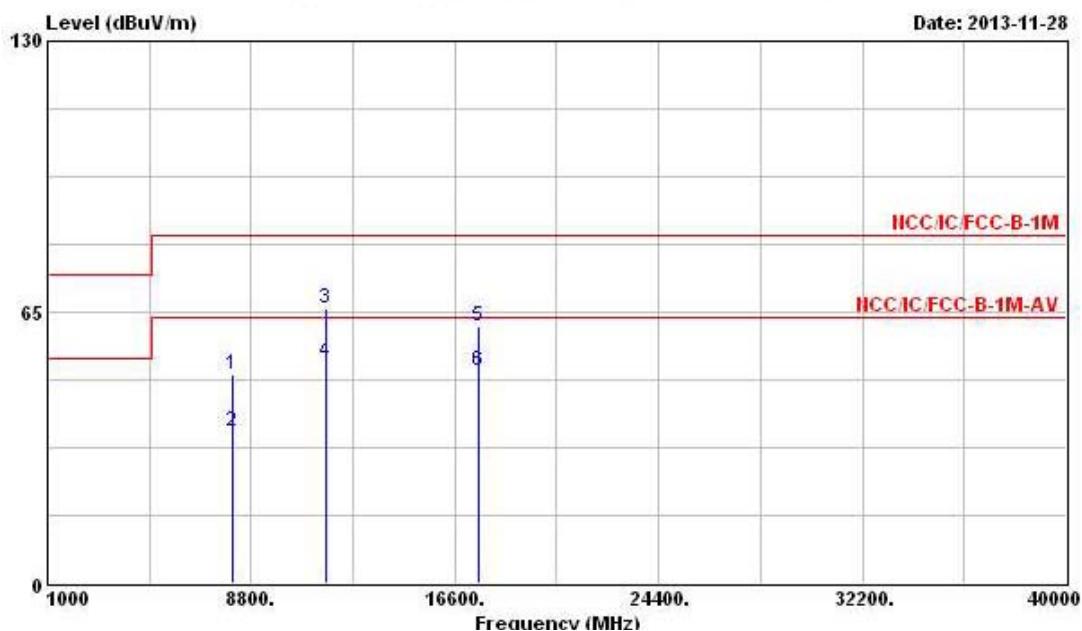
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.01 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

<b>Modulation Mode</b>	11a	<b>Test Freq. (MHz)</b>	5825
<b>N<sub>TX</sub></b>	1	<b>Polarization</b>	H



Freq	Level	Over	Limit	Read		Antenna	Cable	Preamp	Remark	Ant	Table
		Line	Level	Factor	Loss	Factor	Factor	Remark			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
8078.000	50.12	-33.42	83.54	42.34	37.60	5.33	35.15	Peak	---	---	---
8078.000	36.54	-27.00	63.54	28.76	37.60	5.33	35.15	Average	---	---	---
11650.000	65.83	-17.71	83.54	54.72	39.17	6.52	34.58	Peak	---	---	---
11650.000	52.89	-10.65	63.54	41.78	39.17	6.52	34.58	Average	---	---	---
17475.000	61.76	-21.78	83.54	41.23	45.36	8.92	33.75	Peak	---	---	---
17475.000	50.93	-12.61	63.54	30.40	45.36	8.92	33.75	Average	---	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

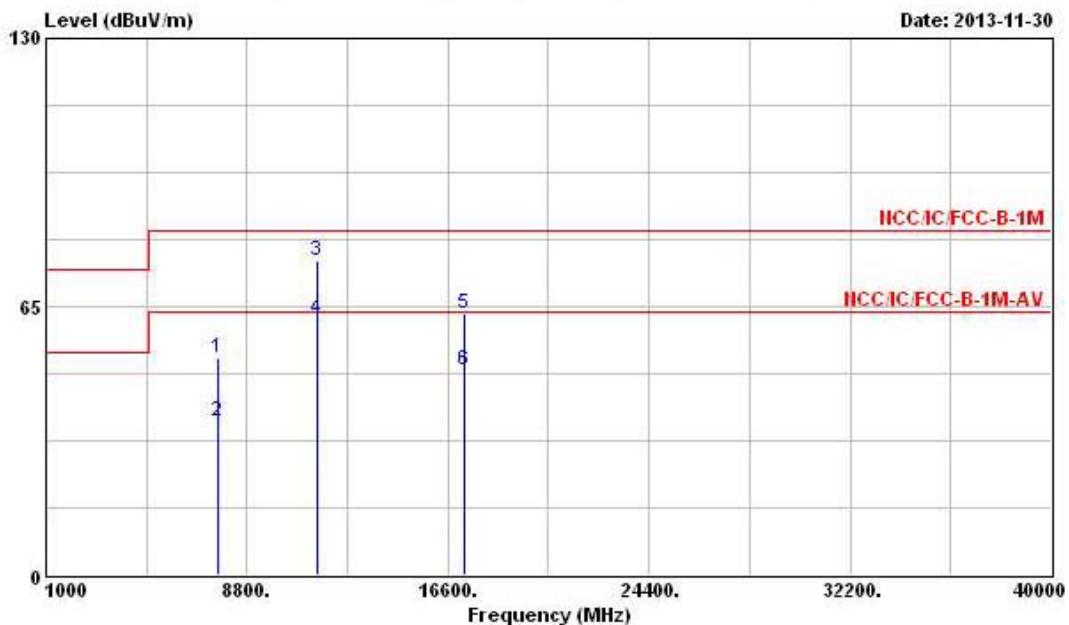
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.01 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

<b>Modulation Mode</b>	HT20	<b>Test Freq. (MHz)</b>	5745
<b>N<sub>TX</sub></b>	1	<b>Polarization</b>	V



Freq	Level	Over Limit		ReadAntenna		Cable Preamp		Remark	Ant Pos	Table Pos
		Line	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
7649.000	52.42	-31.12	83.54	44.32	37.53	5.61	35.04	Peak	---	---
7649.000	37.19	-26.35	63.54	29.09	37.53	5.61	35.04	Average	---	---
11490.000	76.16	-7.38	83.54	65.07	39.17	6.36	34.44	Peak	---	---
11490.000	61.80	-1.74	63.54	50.71	39.17	6.36	34.44	Average	---	---
17235.000	63.39	-20.15	83.54	44.61	43.68	8.96	33.86	Peak	---	---
17235.000	49.59	-13.95	63.54	30.81	43.68	8.96	33.86	Average	---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 1:  $\geq 25\mu\text{g}$  means spurious emissions levels that exceed the lower of 25  $\mu\text{g}$  below the upper

Note 2: "NF" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

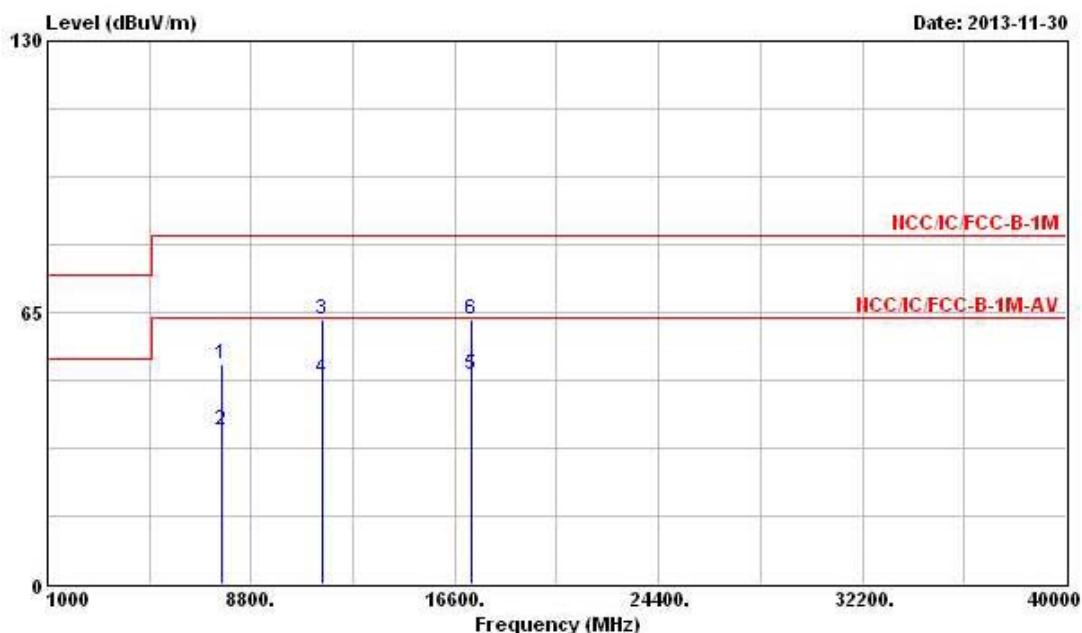
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.73 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5745
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over Limit	Limit	Read		Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
				Line	dBuV						
MHz	dBuV/m		dB	dBuV/m		dBuV	dB/m	dB	dB	cm	deg
1 7693.000	52.41	-31.13	83.54	44.38	37.54	5.54	35.05	Peak		---	---
2 7693.000	36.75	-26.79	63.54	28.72	37.54	5.54	35.05	Average		---	---
3 11490.000	63.33	-20.21	83.54	52.24	39.17	6.36	34.44	Peak		---	---
4 11490.000	49.27	-14.27	63.54	38.18	39.17	6.36	34.44	Average		---	---
5 17235.000	49.82	-13.72	63.54	31.04	43.68	8.96	33.86	Average		---	---
6 17235.000	63.21	-20.33	83.54	44.43	43.68	8.96	33.86	Peak		---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

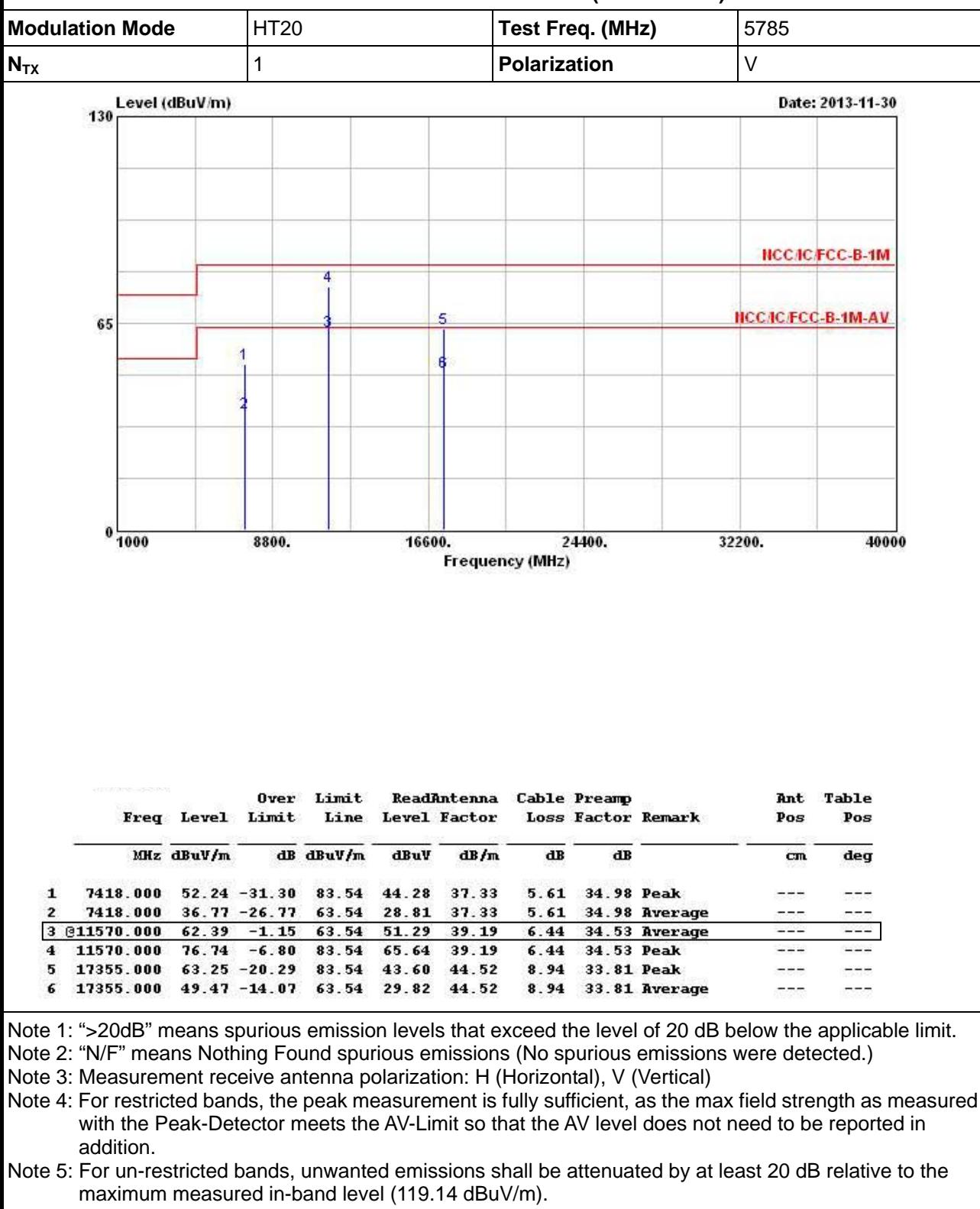
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.73 dBuV/m).



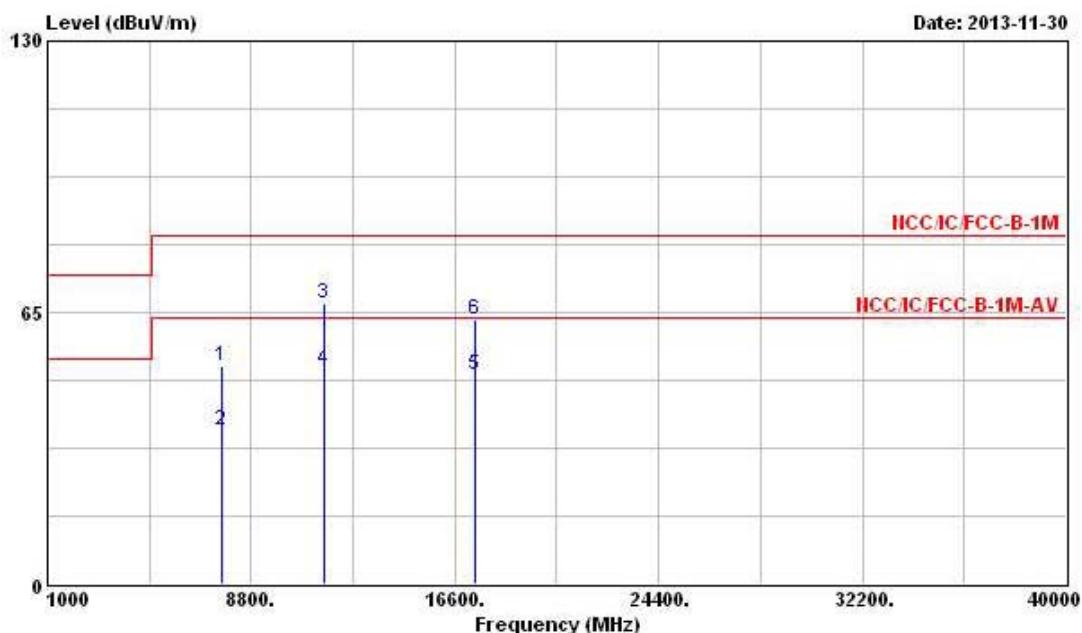
## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5785
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over Limit	Line	Read		Antenna Factor	Cable Preamp		Ant Pos	Table Pos
				dB	dBuV/m		dB	dBuV/m		
1 7693.000	52.14	-31.40	83.54	44.11	37.54	5.54	35.05	Peak	---	---
2 7693.000	36.66	-26.88	63.54	28.63	37.54	5.54	35.05	Average	---	---
3 11570.000	67.14	-16.40	83.54	56.04	39.19	6.44	34.53	Peak	---	---
4 11570.000	51.45	-12.09	63.54	40.35	39.19	6.44	34.53	Average	---	---
5 17355.000	50.06	-13.48	63.54	30.41	44.52	8.94	33.81	Average	---	---
6 17355.000	63.38	-20.16	83.54	43.73	44.52	8.94	33.81	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

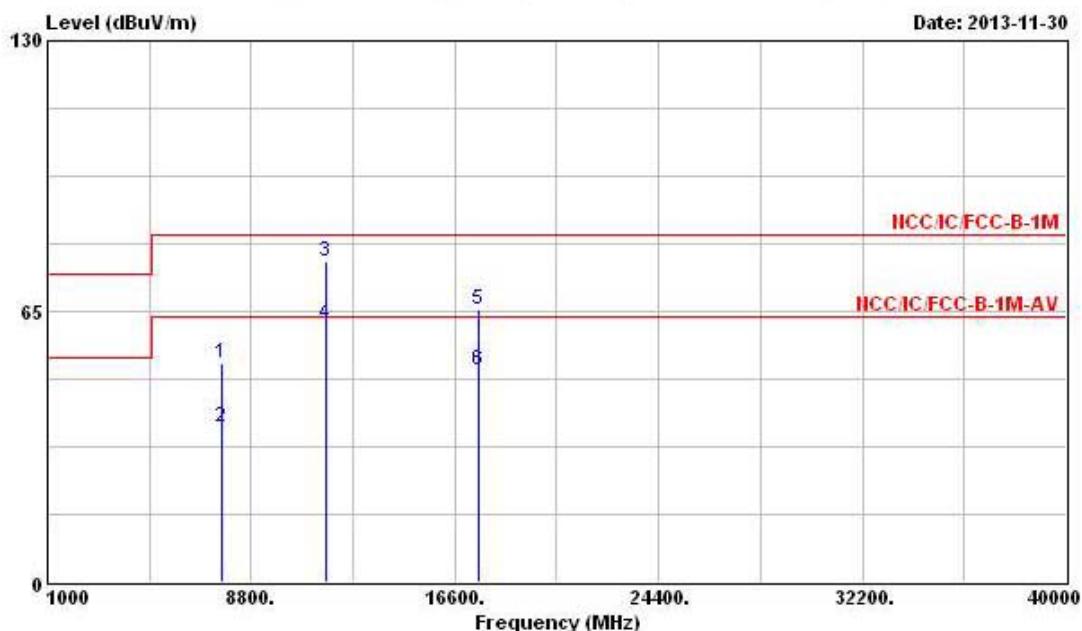
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.14 dBuV/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	HT20	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	V



Freq	Level	Over Limit	Line	Read Antenna		Cable Preamp		Ant Pos	Table Pos
				Level	Factor	Loss	Factor		
MHz	dBuV/m		dB	dBuV/m		dBuV	dB/m	dB	dB
1 7638.000	52.76	-30.78	83.54	44.65	37.53	5.61	35.03	Peak	---
2 7638.000	37.22	-26.32	63.54	29.11	37.53	5.61	35.03	Average	---
3 @11650.000	76.92	-6.62	83.54	65.81	39.17	6.52	34.58	Peak	---
4 @11650.000	62.20	-1.34	63.54	51.09	39.17	6.52	34.58	Average	---
5 17475.000	65.24	-18.30	83.54	44.71	45.36	8.92	33.75	Peak	---
6 17475.000	51.03	-12.51	63.54	30.50	45.36	8.92	33.75	Average	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

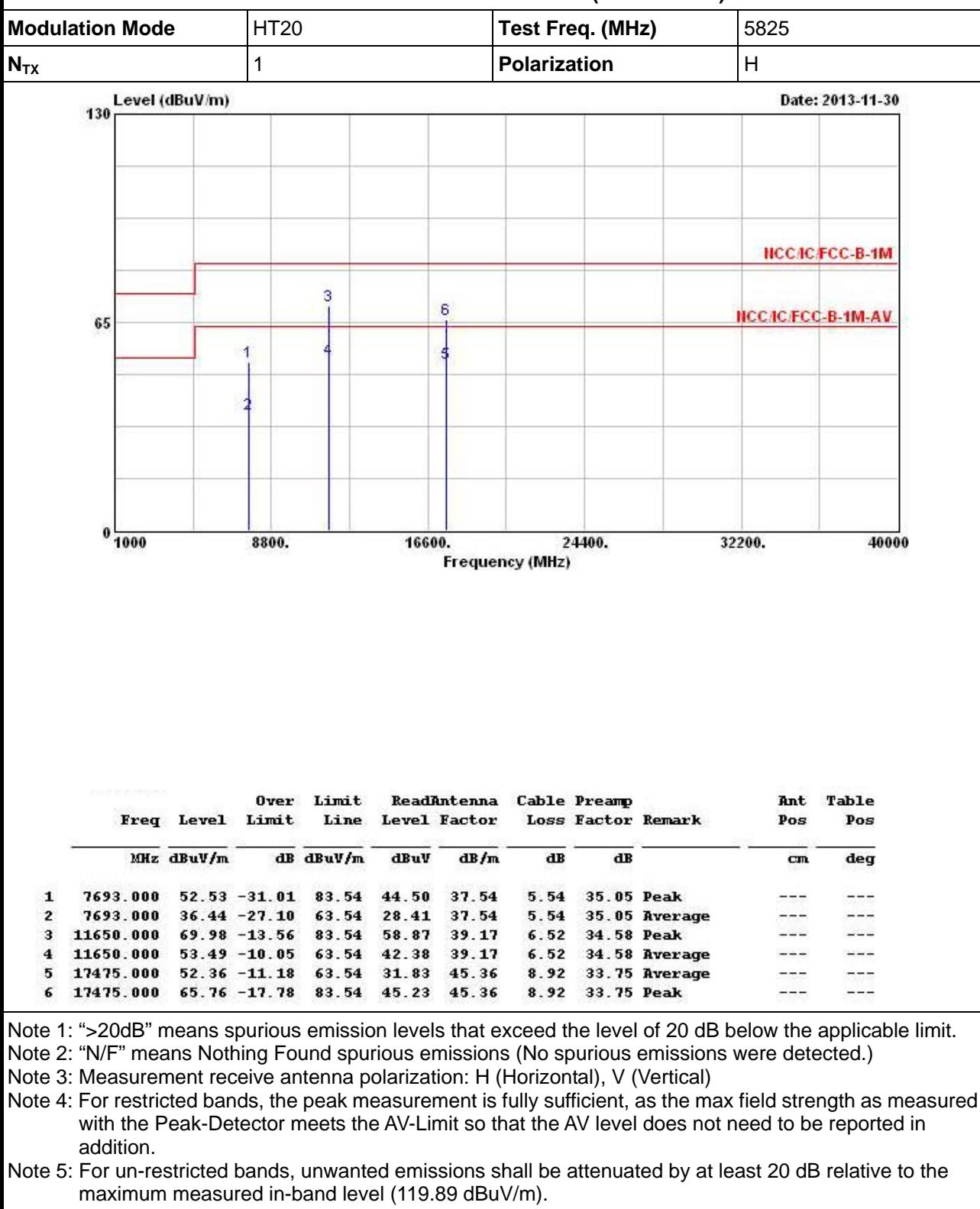
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.89 dBuV/m).

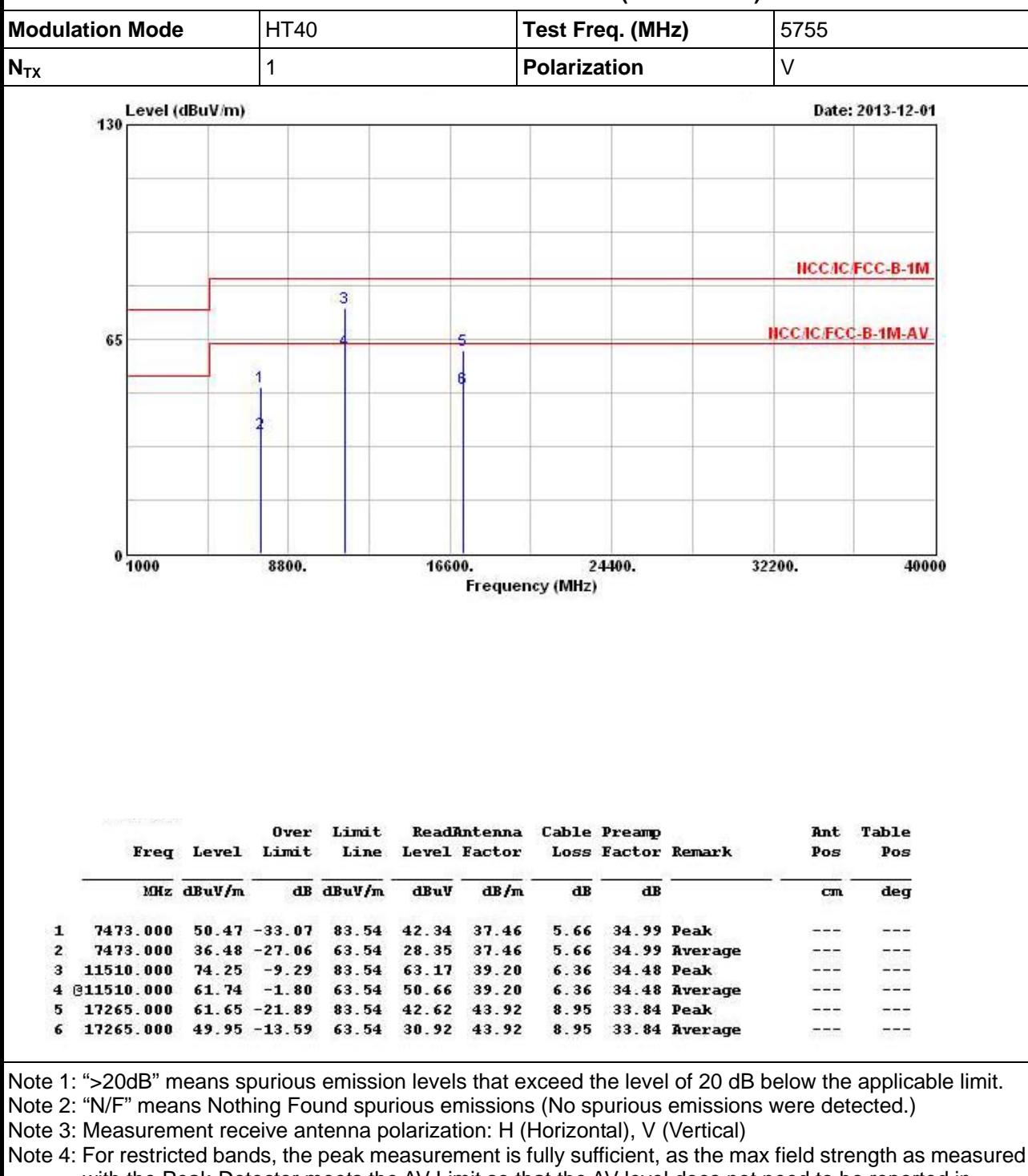


## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2



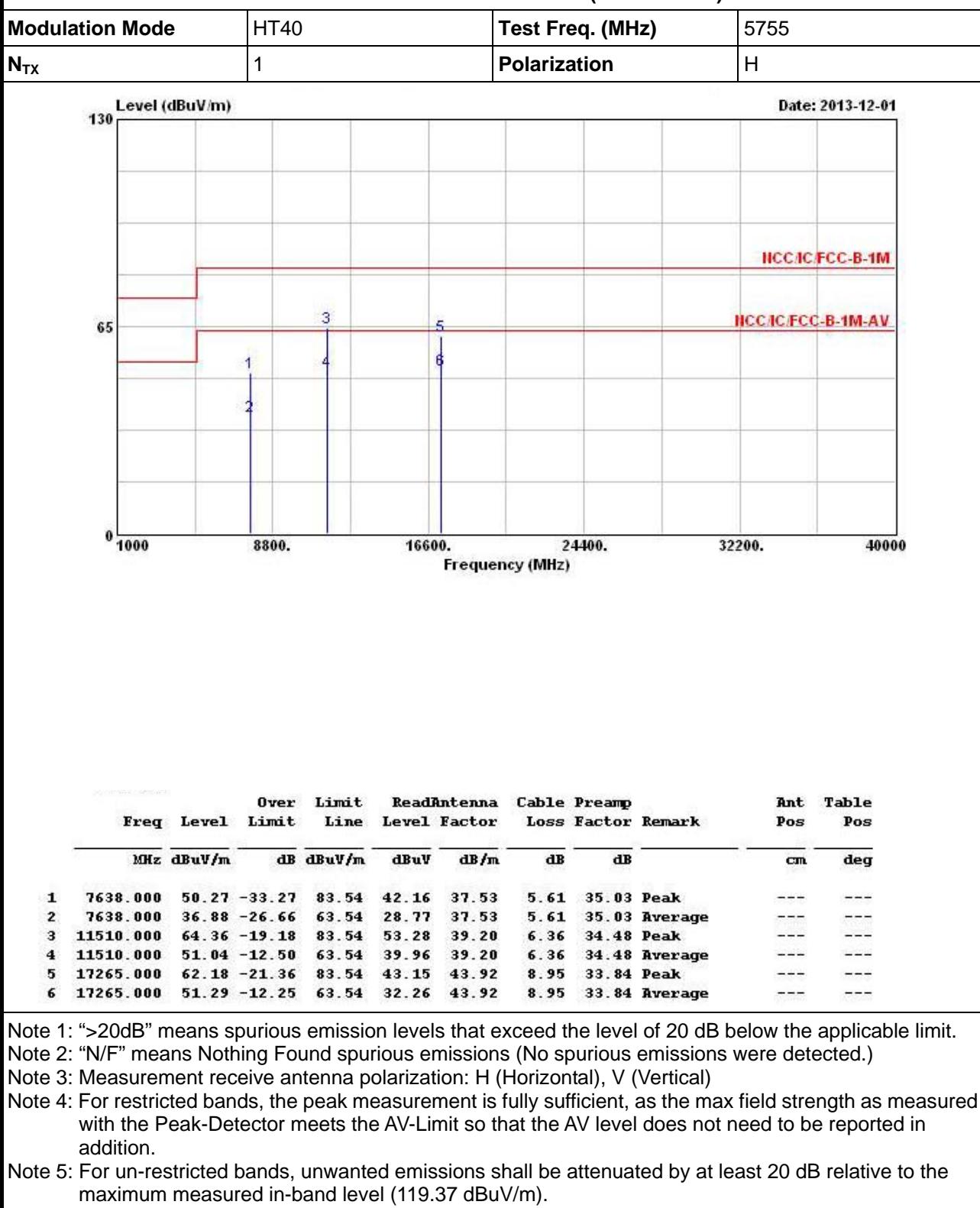


## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2



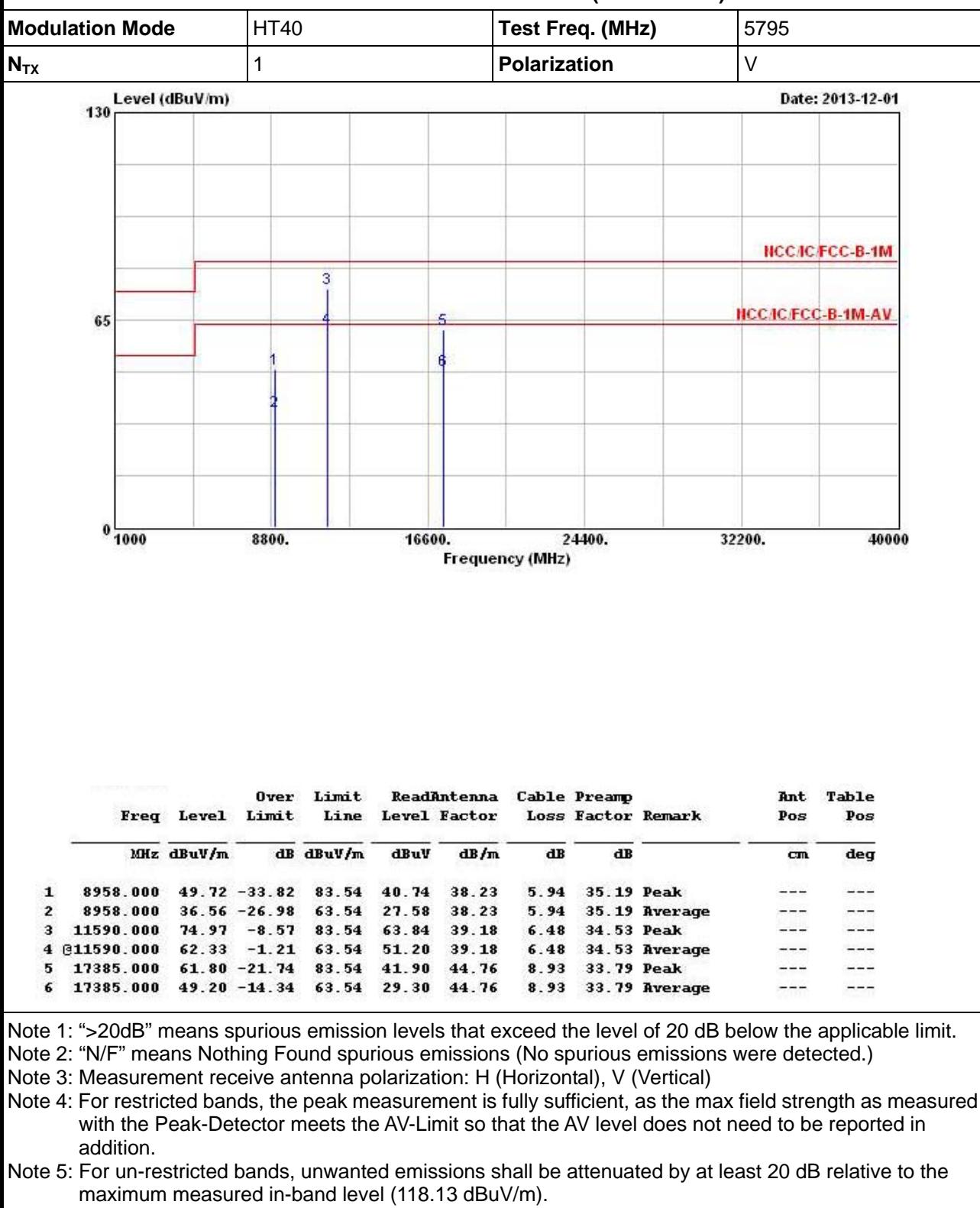


## Transmitter Radiated Unwanted Emissions (Above 1GHz) – Mode 2



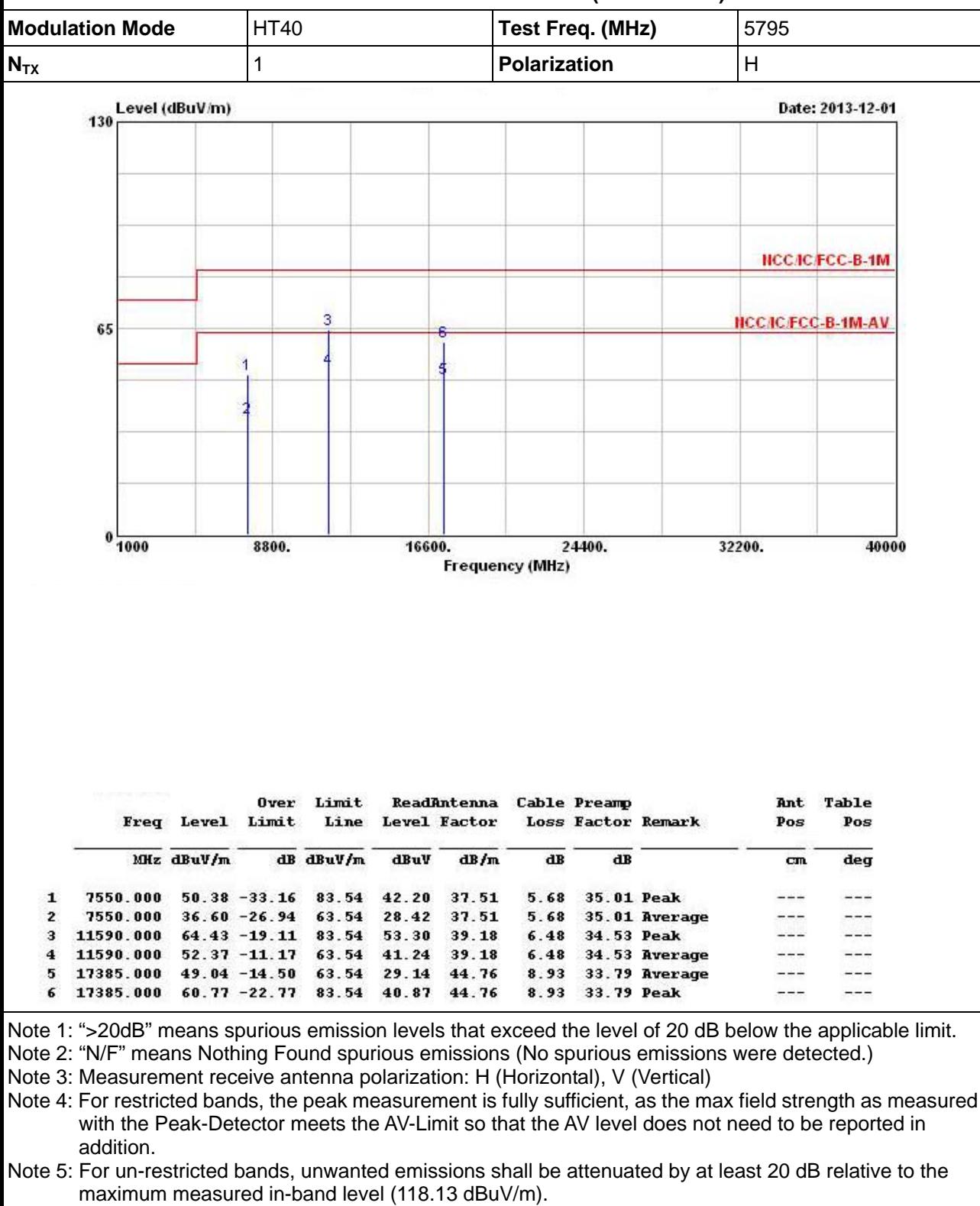


## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





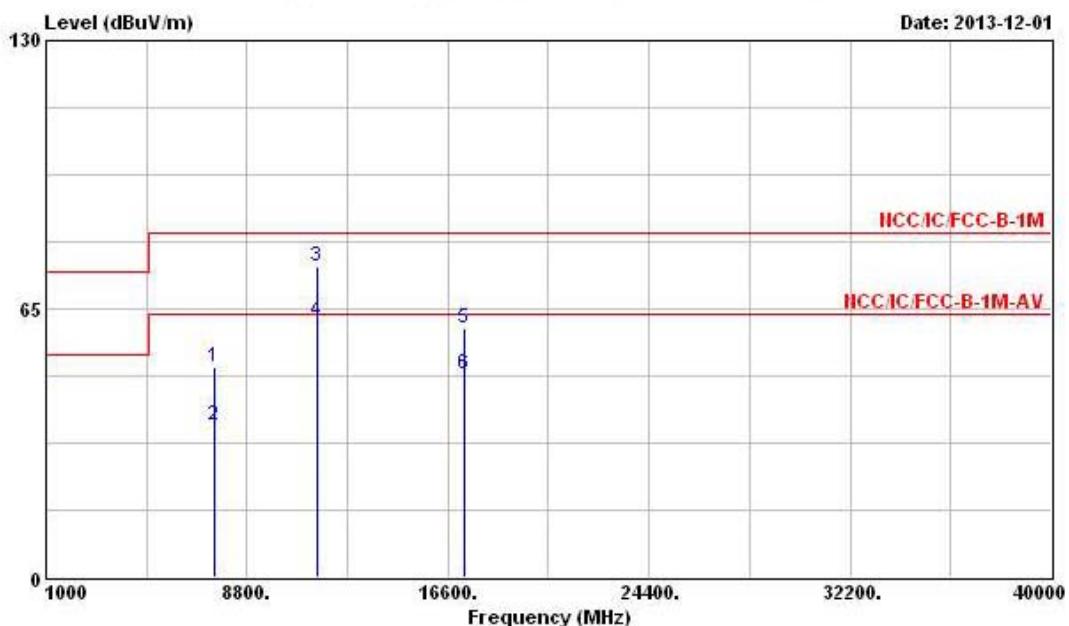
## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5745
$N_{TX}$	1	Polarization	V



Freq	Level	Limit	Over	Limit	Read	Antenna	Cable	Preamp	Remark	Ant	Table
			Line	Level	Factor		Loss	Factor			
MHz	dBuV/m		dB	dBuV/m	dBuV	dB/m		dB		cm	deg
7517.000	50.79	-32.75	83.54	42.58	37.50	5.71	35.00	Peak		---	---
7517.000	36.75	-26.79	63.54	28.54	37.50	5.71	35.00	Average		---	---
11490.000	75.46	-8.08	83.54	64.37	39.17	6.36	34.44	Peak		---	---
11490.000	61.90	-1.64	63.54	50.81	39.17	6.36	34.44	Average		---	---
17235.000	60.35	-23.19	83.54	41.57	43.68	8.96	33.86	Peak		---	---
17235.000	49.19	-14.35	63.54	30.41	43.68	8.96	33.86	Average		---	---

Note 1: “>20dB” means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

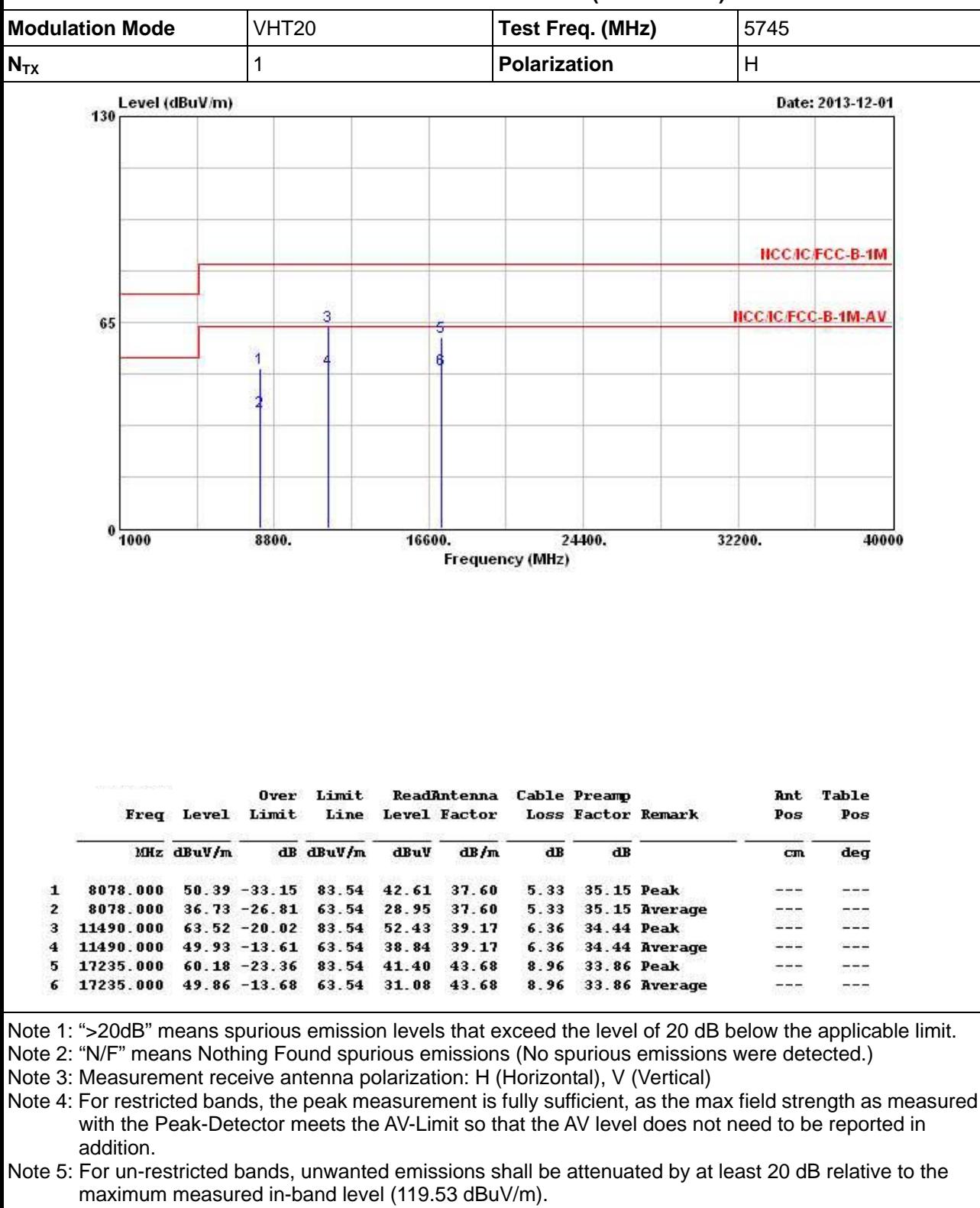
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 3: Measured field receive antenna polarization: H (horizontal), V (vertical)  
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (119.53 dB<sub>UV</sub>/m).



## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2



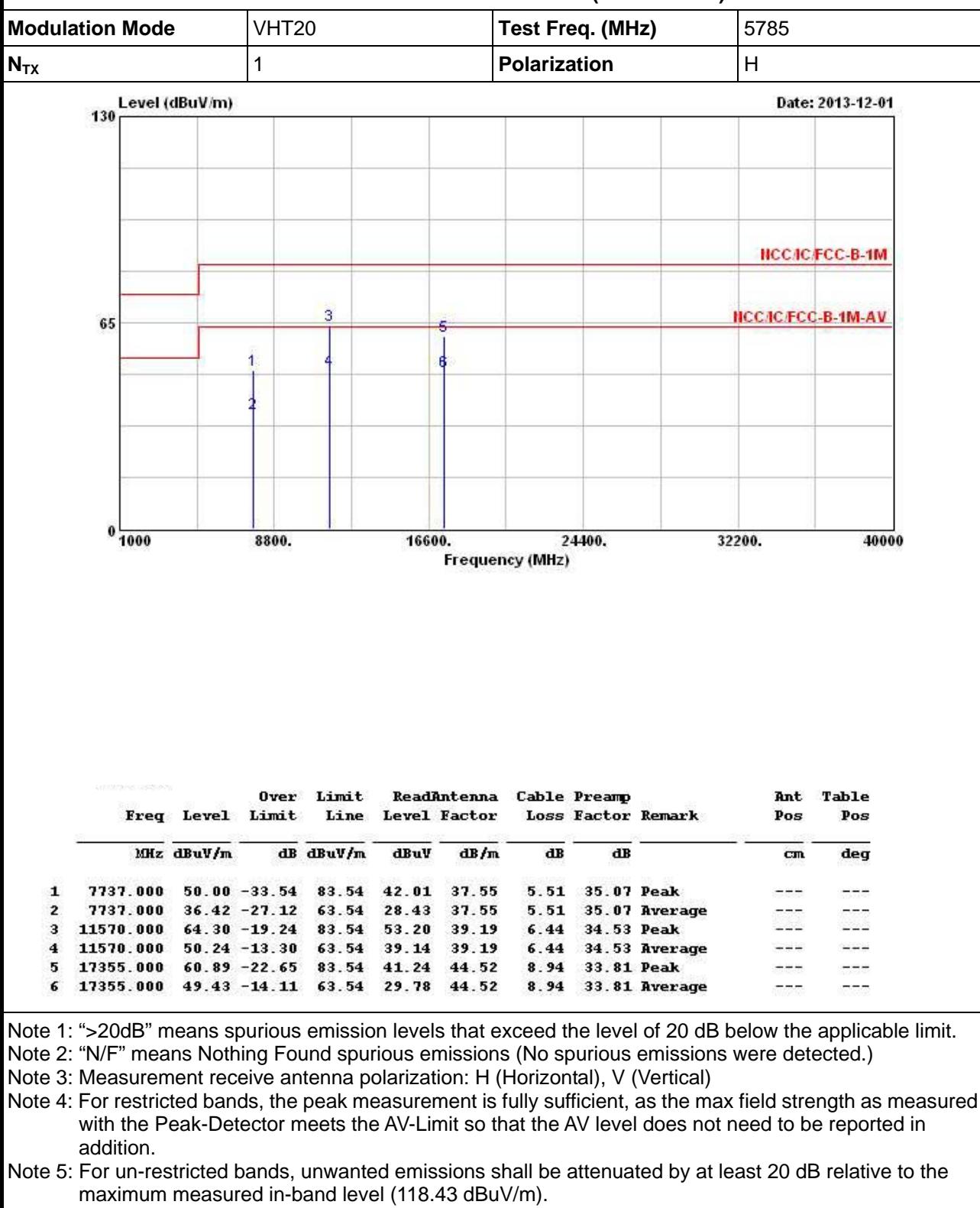


## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2



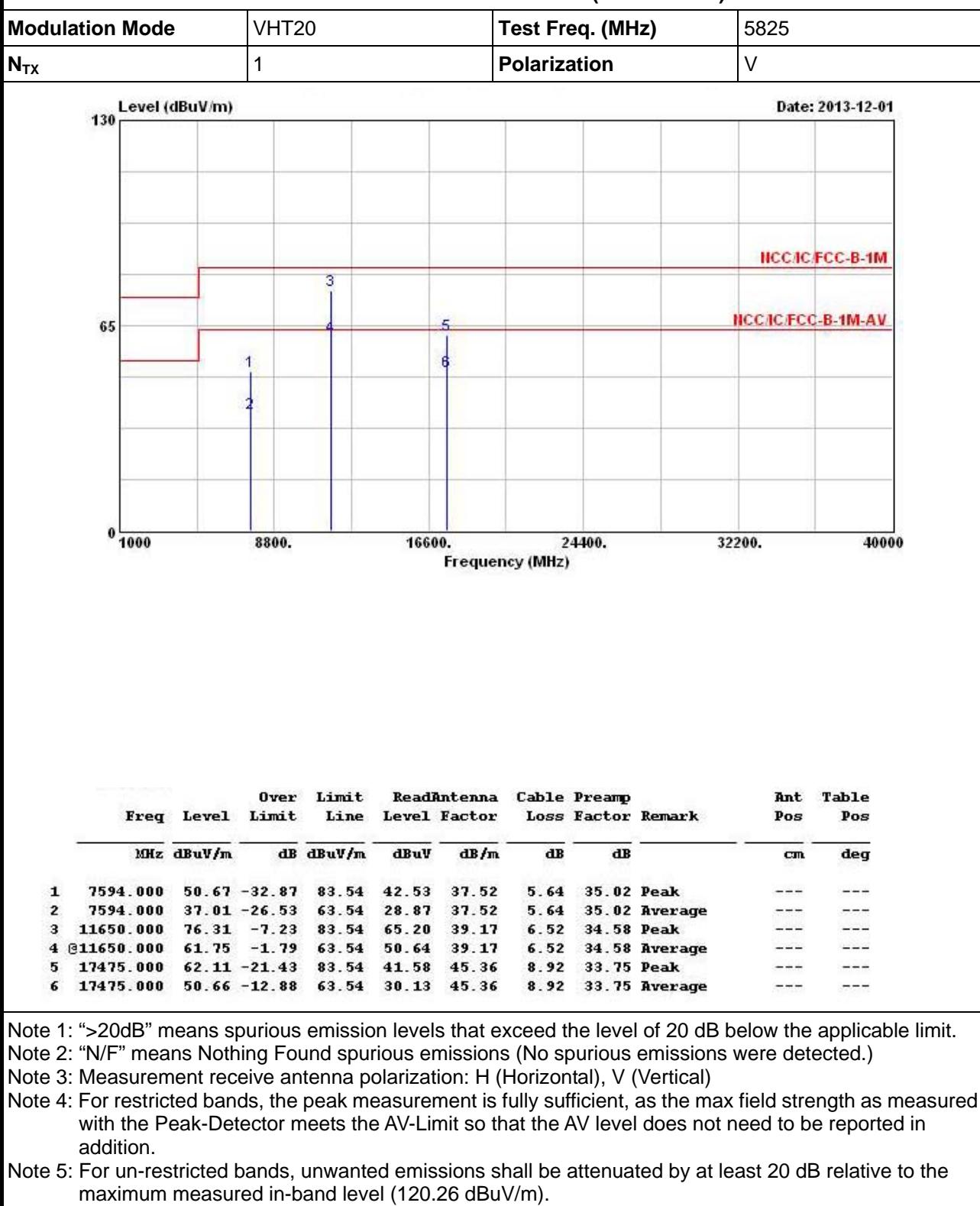


## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





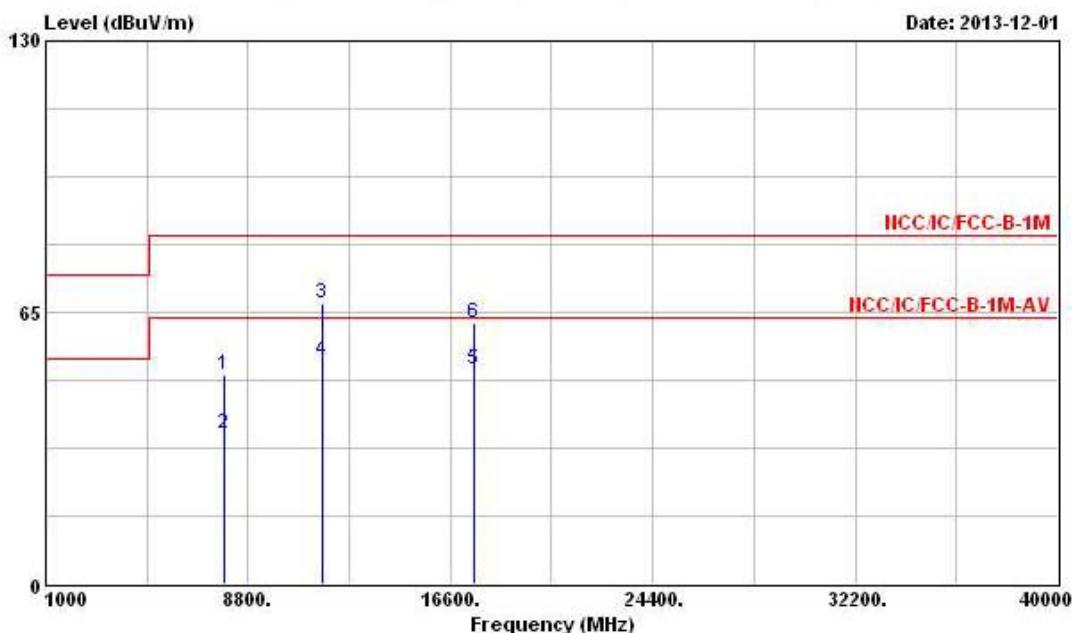
## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT20	Test Freq. (MHz)	5825
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over Limit	Limit Line	ReadAntenna		Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos	
				MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	7869.000	50.02	-33.52	83.54	42.15	37.57	5.41	35.11	Peak	---	---
2	7869.000	36.06	-27.48	63.54	28.19	37.57	5.41	35.11	Average	---	---
3	11650.000	67.30	-16.24	83.54	56.19	39.17	6.52	34.58	Peak	---	---
4	11650.000	53.55	-9.99	63.54	42.44	39.17	6.52	34.58	Average	---	---
5	17475.000	51.43	-12.11	63.54	30.90	45.36	8.92	33.75	Average	---	---
6	17475.000	62.36	-21.18	83.54	41.83	45.36	8.92	33.75	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

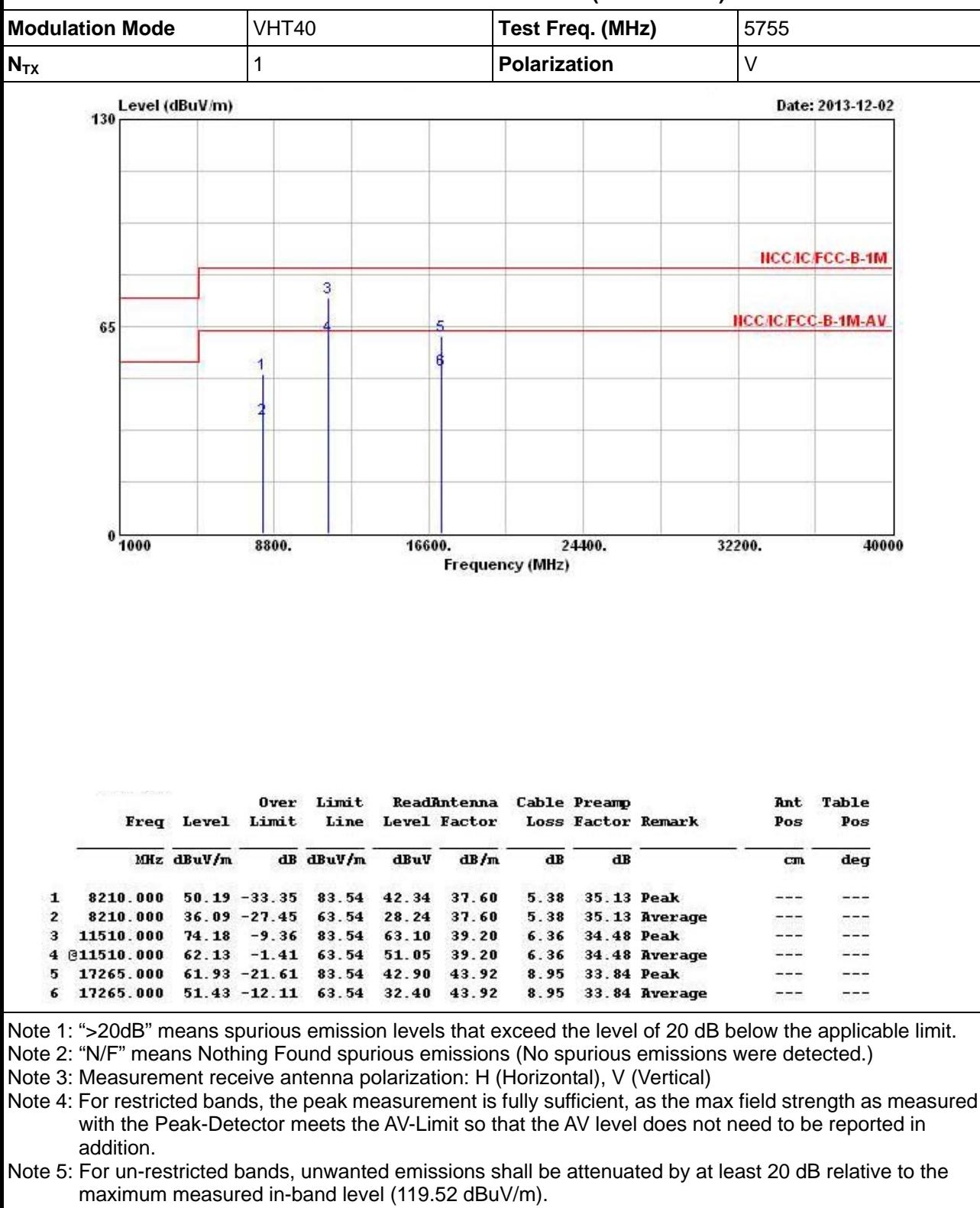
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.26 dBuV/m).

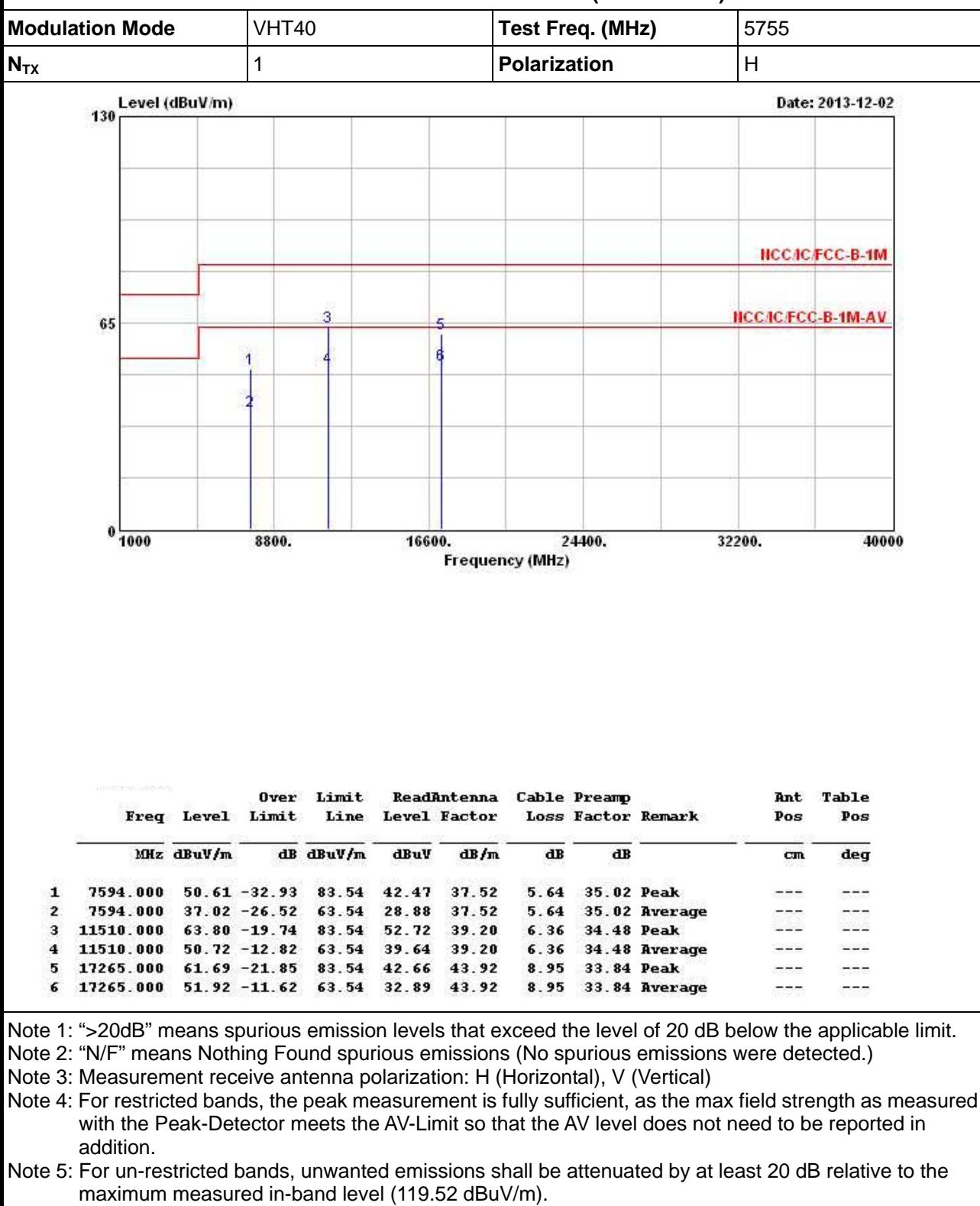


## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2



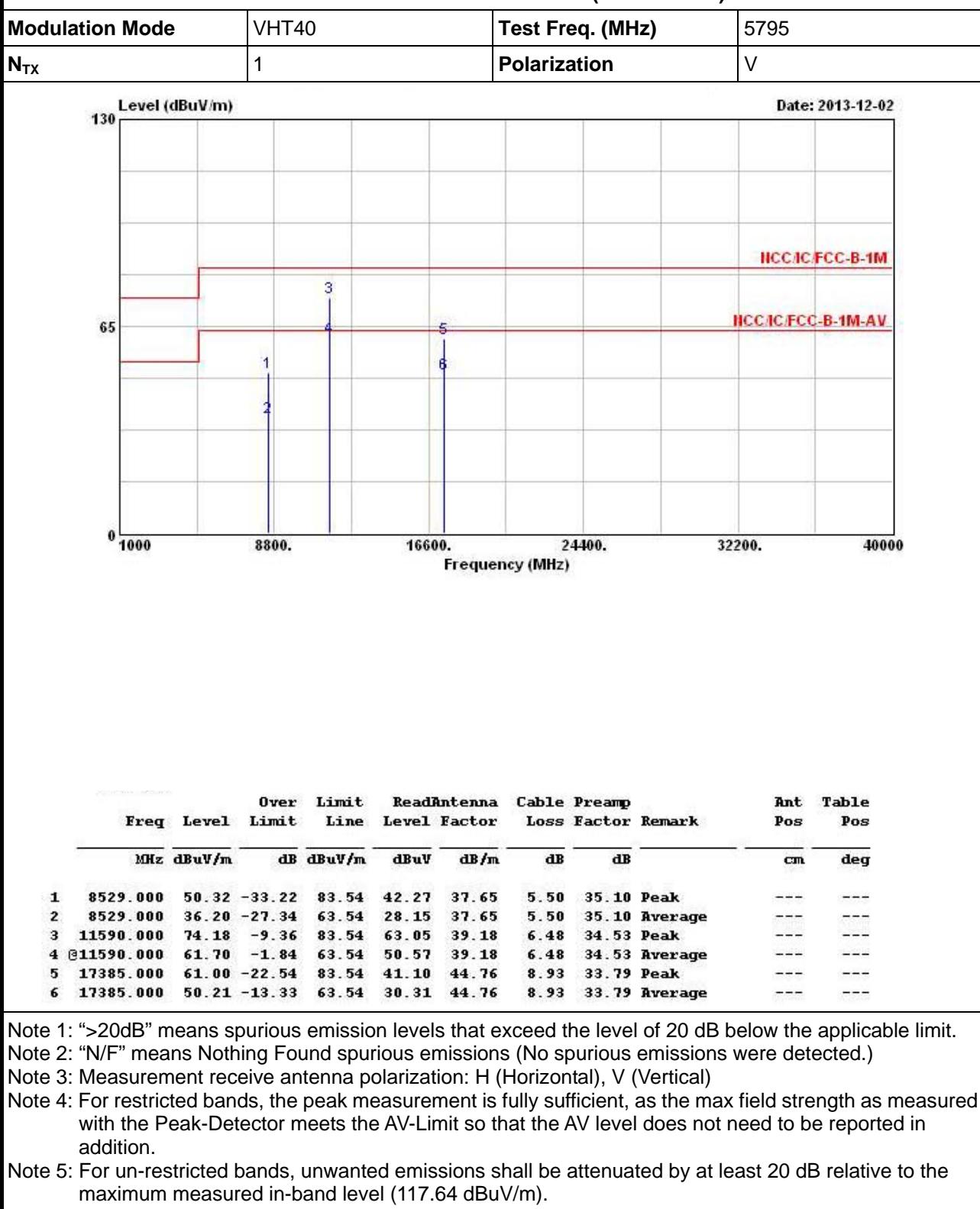


## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





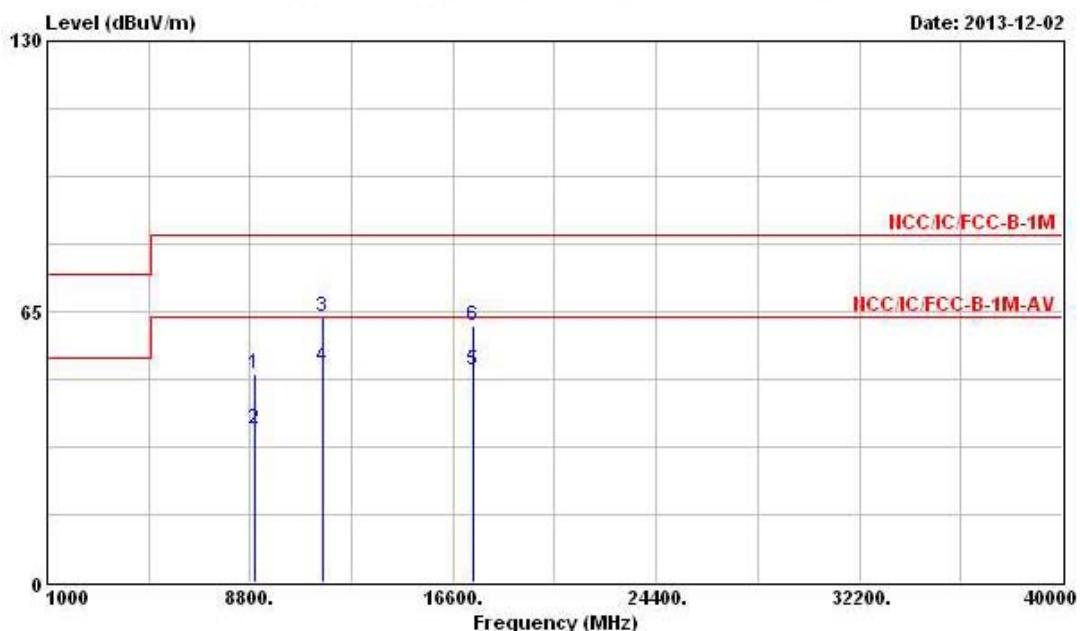
## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT40	Test Freq. (MHz)	5795
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over Limit	Line	Antenna		Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
				Level	Factor					
MHz	dBuV/m		dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 8969.000	49.89	-33.65	83.54	40.89	38.25	5.94	35.19	Peak	---	---
2 8969.000	36.65	-26.89	63.54	27.65	38.25	5.94	35.19	Average	---	---
3 11590.000	63.57	-19.97	83.54	52.44	39.18	6.48	34.53	Peak	---	---
4 11590.000	51.74	-11.80	63.54	40.61	39.18	6.48	34.53	Average	---	---
5 17385.000	51.10	-12.44	63.54	31.20	44.76	8.93	33.79	Average	---	---
6 17385.000	61.55	-21.99	83.54	41.65	44.76	8.93	33.79	Peak	---	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

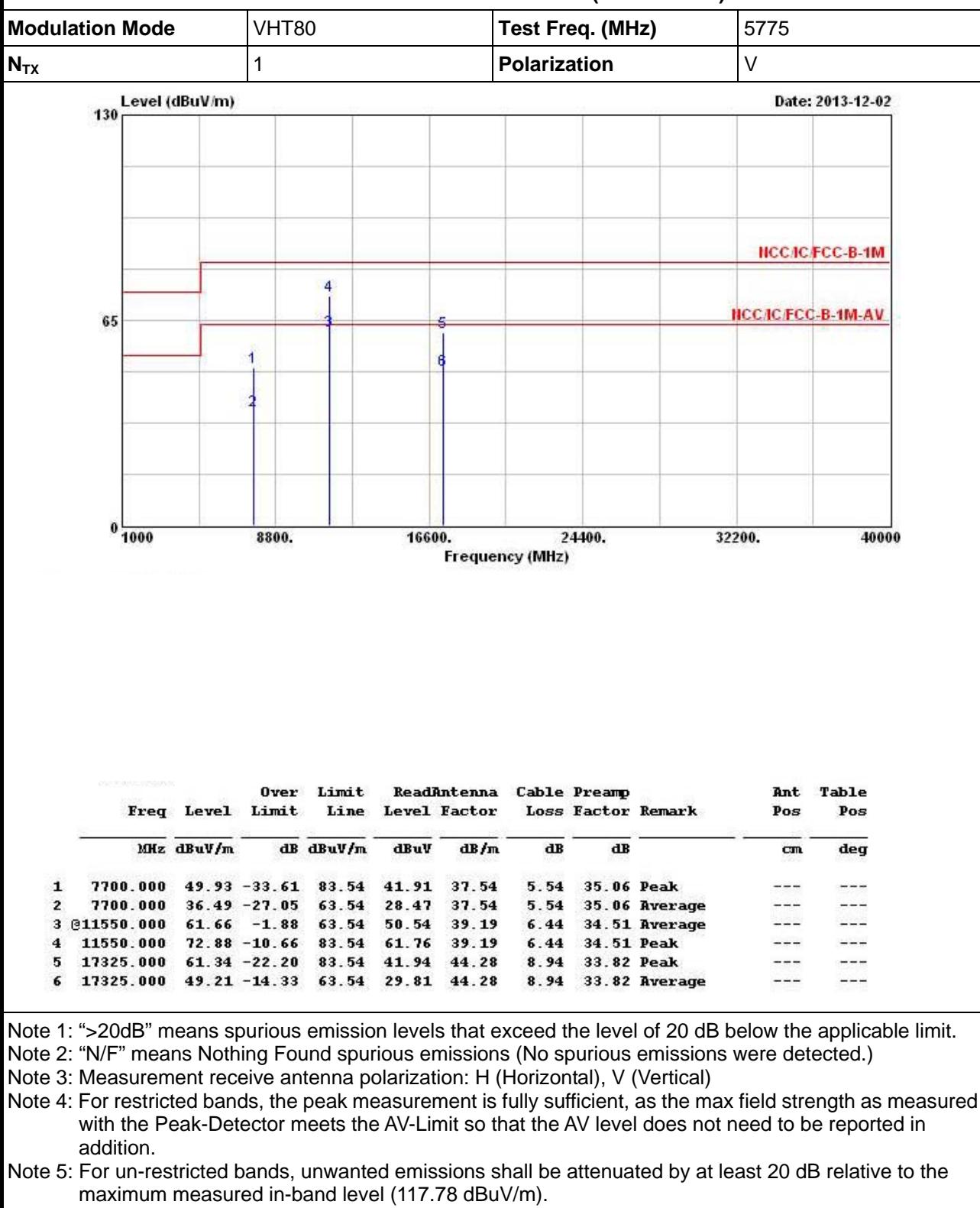
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (117.64 dBuV/m).



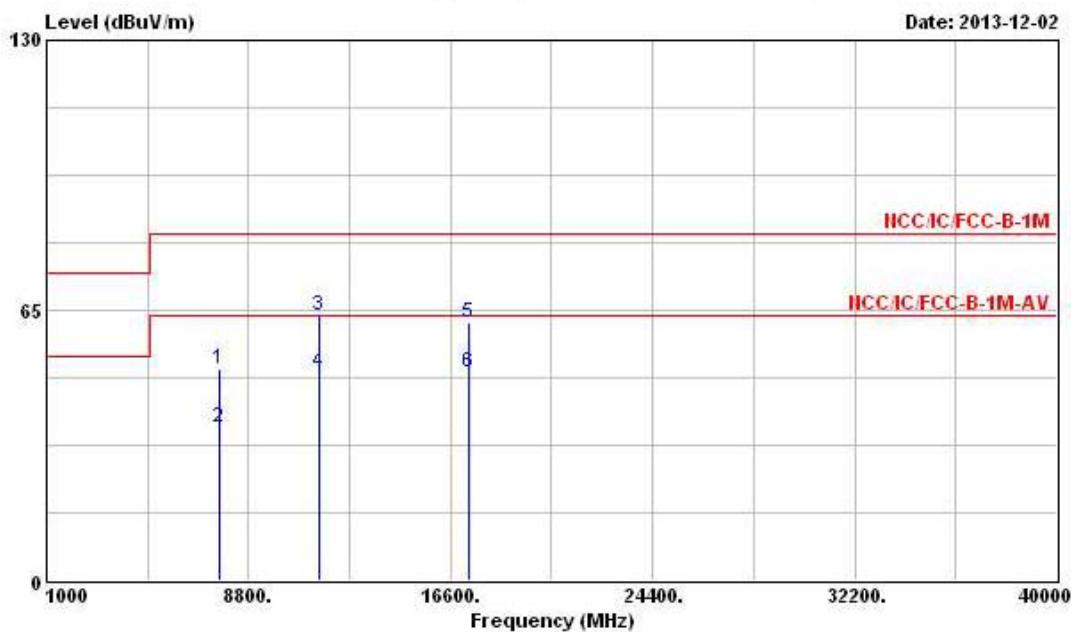
## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2





## Transmitter Radiated Unwanted Emissions (Above 1GHz) - Mode 2

Modulation Mode	VHT80	Test Freq. (MHz)	5775
N <sub>TX</sub>	1	Polarization	H



Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant Pos	Table Pos
		Limit	Line	Level	Factor	Cable	Preamp		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 7649.000	50.71	-32.83	83.54	42.61	37.53	5.61	35.04	Peak	---
2 7649.000	36.92	-26.62	63.54	28.82	37.53	5.61	35.04	Average	---
3 11550.000	63.77	-19.77	83.54	52.65	39.19	6.44	34.51	Peak	---
4 11550.000	50.13	-13.41	63.54	39.01	39.19	6.44	34.51	Average	---
5 17325.000	61.90	-21.64	83.54	42.50	44.28	8.94	33.82	Peak	---
6 17325.000	50.01	-13.53	63.54	30.61	44.28	8.94	33.82	Average	---

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (117.78 dBuV/m).



## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2013	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 21, 2013	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz ~ 30MHz	Apr. 18, 2013	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	9kHz ~ 30MHz	Oct. 30, 2013	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV 40	101013	9KHz~40GHz	Jan. 29, 2013	Conducted (TH01-HY)
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 16, 2013	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20 ~ 100°C	Nov. 21, 2013	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 27, 2013	Conducted (TH01-HY)
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	30MHz ~ 26.5GHz	Dec. 02, 2013	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9kHz ~ 40GHz	Oct. 03, 2013	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	May 11, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100kHz ~ 1.3GHz	Jul. 17, 2013	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	Aug. 28, 2013	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3115	6744	1GHz ~ 18GHz	Mar. 18, 2013	Radiation (03CH02-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 08, 2013	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 09, 2013	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1GHz ~ 40GHz	Mar. 05, 2013	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30MHz ~ 2GHz	Oct. 10, 2013	Radiation (03CH02-HY)
Turn Table	Chaintek Instruments	3000	MF7802058	0~ 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	MF	MF7802	MF780208205	1 ~ 4 m	N/A	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz ~ 40GHz	Apr. 19, 2013	Radiation (03CH02-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz - 30 MHz	Dec. 02, 2012	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is two year.