

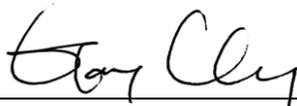
# FCC Test Report

**Equipment** : Personal Computer  
**Brand Name** : SONY  
**Model No.** : SVF15NA1GL  
**FCC ID** : AK8SVF15NA1GL  
**Standard** : 47 CFR FCC Part 15.247  
**Operating Band** : 2400 MHz – 2483.5 MHz  
**Equipment Class** : DTS  
**Applicant** : Sony Corporation  
1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan  
**Manufacturer** : Sony Corporation  
1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan

The product sample received on Oct. 01, 2013 and completely tested on Oct. 03, 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:



Gary Chang / Manager





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### Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.1965370MHz 38.22 (Margin 15.54dB) - AV 56.55 (Margin 7.21dB) - QP	FCC 15.207	Complied
3.2	15.247(a)	6dB Bandwidth	6dB Bandwidth Unit [MHz] 20M: 17.62 / 40M: 35.13	≥500kHz	Complied
3.3	15.247(b)	RF Output Power (Maximum Peak Conducted Output Power)	Power [dBm]: 20.62	Power [dBm]: 30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]: -10.04	PSD [dBm/3kHz]: 8	Complied
3.5	15.247(d)	Emissions in non-restricted frequency bands	Out-of -band emissions are 20dB below the highest power	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied
3.6	15.247(d)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 39.700MHz 32.31 (Margin 7.69dB) - PK	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied



# 1 General Description

## 1.1 Information

### 1.1.1 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
2400-2483.5	b	2412-2462	1-11 [11]	1	16.51	YES
2400-2483.5	g	2412-2462	1-11 [11]	1	20.62	YES
2400-2483.5	n (HT-20)	2412-2462	1-11 [11]	1	20.53	YES
2400-2483.5	n (HT-40)	2422-2452	3-9 [7]	1	20.42	YES
2400-2483.5	n (HT-20)	2412-2462	1-11 [11]	2	17.48	NO
2400-2483.5	n (HT-40)	2422-2452	3-9 [7]	2	16.57	NO

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.  
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.  
 Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

### 1.1.2 Antenna Information

Antenna Category	
<input type="checkbox"/>	Integral antenna (antenna permanently attached)
<input type="checkbox"/>	Temporary RF connector provided
<input type="checkbox"/>	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
<input checked="" type="checkbox"/>	External antenna (dedicated antennas)
<input checked="" type="checkbox"/>	RF connector provided
<input checked="" type="checkbox"/>	Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type...)
<input type="checkbox"/>	Standard antenna connector. (e.g., SMA, N, BNC, and TNC type...)

Antenna General Information				
Antenna Pair S/N	Ant. Cat.	Ant. Type	Gain (dBi) of Antenna 1	Gain (dBi) of Antenna 2
SONY_IRX-7690(B)	Integral	PIFA	0.77	-0.62

Note: The device supports 1TX and 2TX function. For 1TX function, Antenna 1 is selected for final test.



1.1.3 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	<input type="checkbox"/> Production ; <input checked="" type="checkbox"/> Pre-Production ; <input 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
<input type="checkbox"/>	Other:

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
<input checked="" type="checkbox"/> Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)
<input checked="" type="checkbox"/> 99.78% - IEEE 802.11b	0.01
<input checked="" type="checkbox"/> 99.76% - IEEE 802.11g	0.01
<input checked="" type="checkbox"/> 99.37% - IEEE 802.11n (HT-20) for 1Tx	0.03
<input checked="" type="checkbox"/> 98.21% - IEEE 802.11n (HT-40) for 1Tx	0.08
<input checked="" type="checkbox"/> 98.28% - IEEE 802.11n (HT-20) for 2Tx	0.08
<input checked="" type="checkbox"/> 98.21% - IEEE 802.11n (HT-40) for 2Tx	0.08

1.1.5 EUT Operational Condition

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

## 1.2 Accessories and Support Equipment

Accessories				
No.	Equipment	Brand Name	Model Name	Remarks
1	AC Adapter	SONY	VGP-AC19V75	I/P: 100-240Vac, 1.2A, 50/60Hz O/P: 19.5Vdc, 2.3A 0.8m non-shielded cable w/o core
2	Battery	SONY	VGP-BPS40	15Vdc, 3170mAh, 48Wh

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	iPod Nano	Apple	A1199	---
2	Mouse (USB)	Microsoft	1004	---
3	NFC Card	SONY	RC-S640/IC	---
4	AP	ASUS	RT-AC66U	---
5	Bluetooth Headset	Sony Ericsson	Z354	---

## 1.3 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 v03r01
- ◆ FCC KDB 662911 v02
- ◆ FCC KDB 412172 v01

## 1.4 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	Sporton Lab	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.		
		TEL : 886-3-327-3456	FAX : 886-3-318-0055	
<input checked="" type="checkbox"/>	ICC Lab	ADD : No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsein 333, Taiwan (R.O.C.)		
		TEL : 886-3-271-8666	FAX : 886-3-318-0155	
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Aaron Liang	23°C / 62%	Oct. 03, 2013
AC Conduction	CO04-HY	Skys Huang	23°C / 68%	Oct. 01, 2013
Radiated Emission Below 1GHz	03CH03-HY	Skys Huang	25.2°C / 51.2%	Oct. 01, 2013
*Radiated Emission Above 1GHz	03CH02-WS	Skys Huang	24°C / 64%	Oct. 01 ~ Oct. 02, 2013
Test site registered number [643075] with FCC. (Test site: 03CH03-HY) Test site registered number [4086B-1] with IC. (Test site: 03CH03-HY) Test site registered number [657002] with FCC. (Test site: 03CH02-WS) Test site registered number [10807A-2] with IC. (Test site: 03CH02-WS)				

Note: \* Sporton Lab subcontracts this test item to ICC lab (TAF: 2732).

ICC lab is a TAF accreditation test firm and also is an approved provider of Sporton lab.

## 1.5 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	Limit
AC power-line conducted emissions		±2.26 dB	N/A
Emission bandwidth, 6dB bandwidth		±1.42 %	N/A
RF output power, conducted		±0.63 dB	N/A
Power density, conducted		±0.81 dB	N/A
All emissions, radiated	30 – 1000 MHz	±3.9 dB	N/A
	Above 1GHz	±4.2 dB	N/A
Temperature		±0.8 °C	N/A
Humidity		±3 %	N/A
DC and low frequency voltages		±3 %	N/A
Time		±1.42 %	N/A
Duty Cycle		±1.42 %	N/A



## 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
11b	1	1-11 Mbps	1 Mbps
11g	1	6-54 Mbps	6 Mbps
HT-20	1	M0-7	MCS 0
HT-40	1	M0-7	MCS 0
HT-20	2	M8-15	MCS 8
HT-40	2	M8-15	MCS 8

### 2.2 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration	
IEEE Std. 802.11	Test Channel Frequencies (MHz)
b, g, n (HT-20)	2412-(F1), 2437-(F2), 2462-(F3)
n (HT-40)	2422-(F4), 2437-(F5), 2452-(F6)

### 2.3 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (2400-2483.5MHz band)							
Test Software Version	DRTU Ver. 1.6.5-748						
Modulation Mode	N <sub>TX</sub>	Test Frequency (MHz)					
		NCB: 20MHz			NCB: 40MHz		
		2412	2437	2462	2422	2437	2452
11b	1	14.5	14	14	-	-	-
11g	1	12	15	12	-	-	-
HT-20	1	12	15.5	12	-	-	-
HT-40	1	-	-	-	8.5	12.5	12
HT-20	2	8.5	10	9.5	-	-	-
HT-40	2	-	-	-	5.5	10	8.5

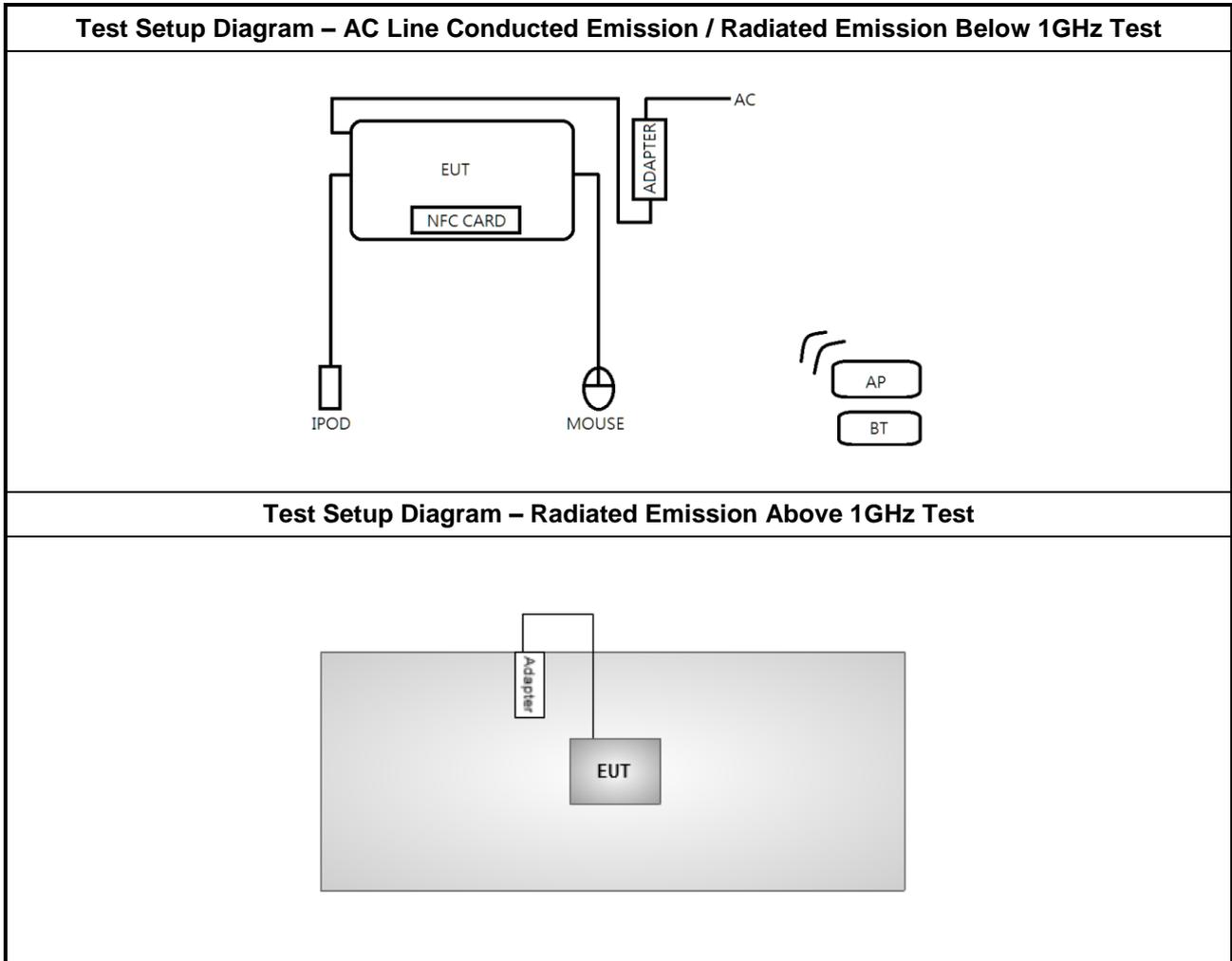
## 2.4 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	Normal Link

The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, Power Spectral Density, 6 dB Bandwidth
Test Condition	Conducted measurement at transmit chains
Operating Mode	<input checked="" type="checkbox"/> 1. Radio link (WLAN) with 1Tx
Modulation Mode	11b, 11g, HT-20, HT-40
Operating Mode	<input checked="" type="checkbox"/> 2. Radio link (WLAN) with 2Tx
Modulation Mode	HT-20, HT-40

The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
User Position	<input type="checkbox"/> EUT will be placed in fixed position.		
	<input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes. The worst planes is X.		
	<input checked="" type="checkbox"/> EUT will be operating multiple positions. EUT shall be performed two or three orthogonal planes. The worst plane is Z.		
Operating Mode	<input checked="" type="checkbox"/> 1. Radio link (WLAN) with 1Tx		
	<input checked="" type="checkbox"/> 2. Radio link (WLAN) with 2Tx		
Modulation Mode	11b, 11g, HT-20, HT-40		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

## 2.5 Test Setup Diagram



### 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.

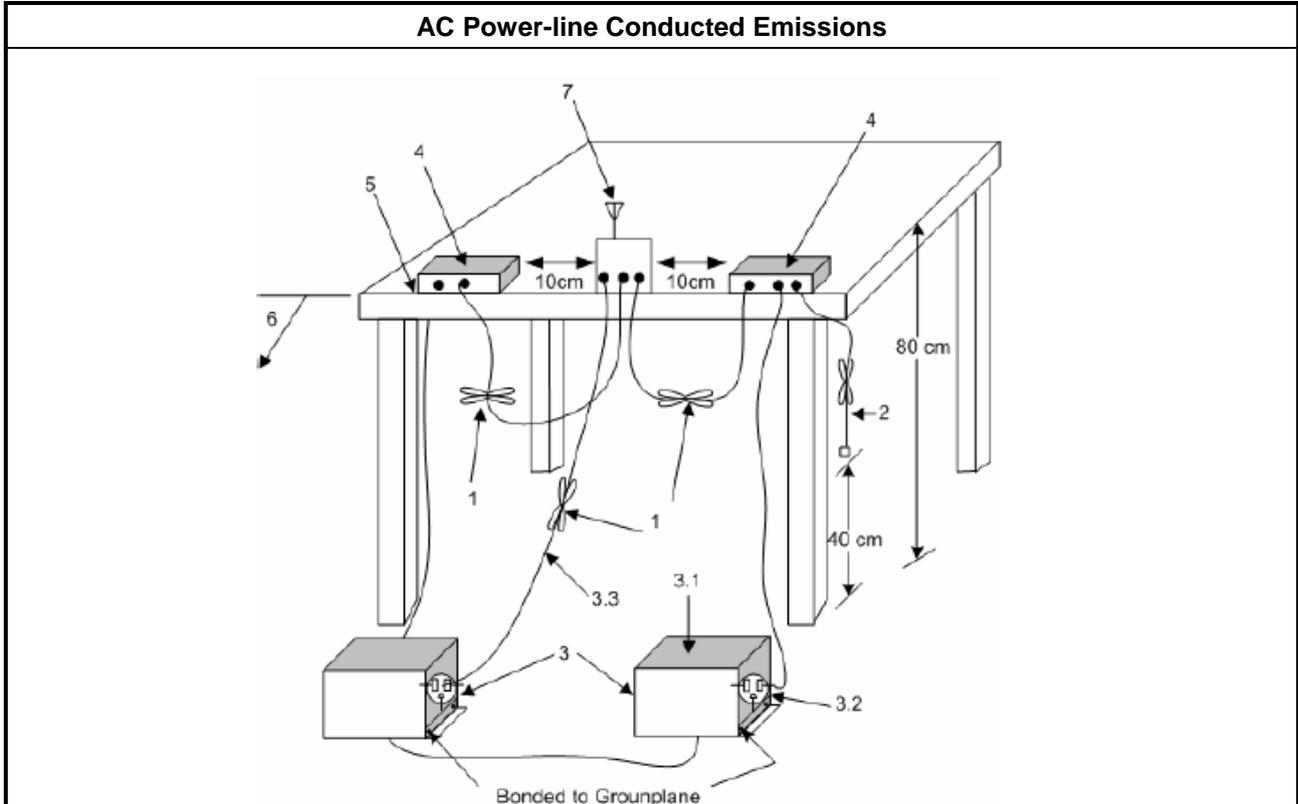
##### 3.1.2 Measuring Instruments

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

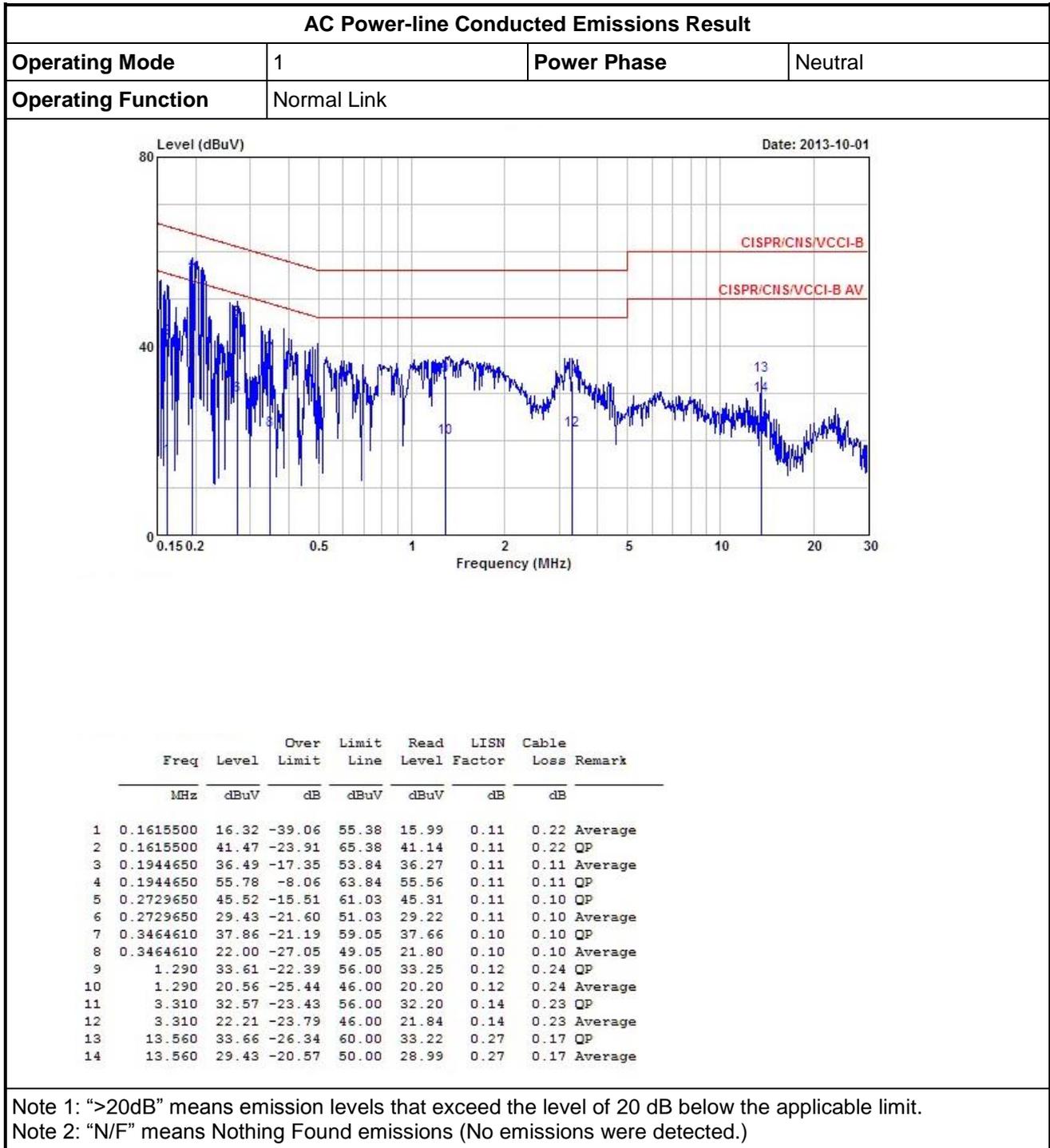
##### 3.1.3 Test Procedures

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

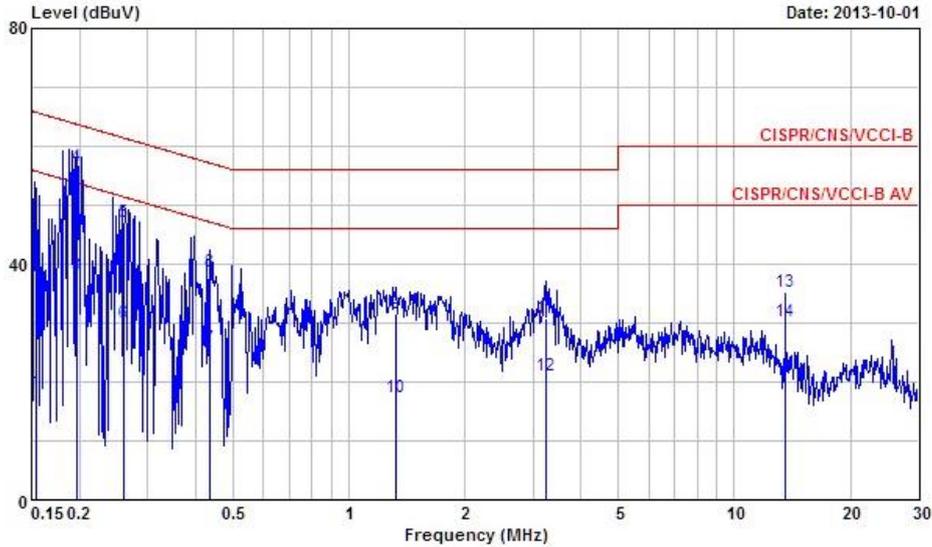


### 3.1.5 Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Normal Link		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.1540270	18.26	-37.52	55.78	17.77	0.24	0.25	Average
2	0.1540270	42.38	-23.40	65.78	41.89	0.24	0.25	QP
3	0.1965370	38.22	-15.54	53.76	37.88	0.23	0.11	Average
4	0.1965370	56.55	-7.21	63.76	56.21	0.23	0.11	QP
5	0.2602550	47.15	-14.27	61.42	46.82	0.23	0.10	QP
6	0.2602550	29.93	-21.49	51.42	29.60	0.23	0.10	Average
7	0.4351090	25.79	-21.36	47.15	25.46	0.22	0.11	Average
8	0.4351090	38.60	-18.55	57.15	38.27	0.22	0.11	QP
9	1.320	31.50	-24.50	56.00	31.02	0.24	0.24	QP
10	1.320	17.42	-28.58	46.00	16.94	0.24	0.24	Average
11	3.240	30.73	-25.27	56.00	30.22	0.28	0.23	QP
12	3.240	21.14	-24.86	46.00	20.63	0.28	0.23	Average
13	13.560	35.33	-24.67	60.00	34.68	0.48	0.17	QP
14	13.560	30.18	-19.82	50.00	29.53	0.48	0.17	Average

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

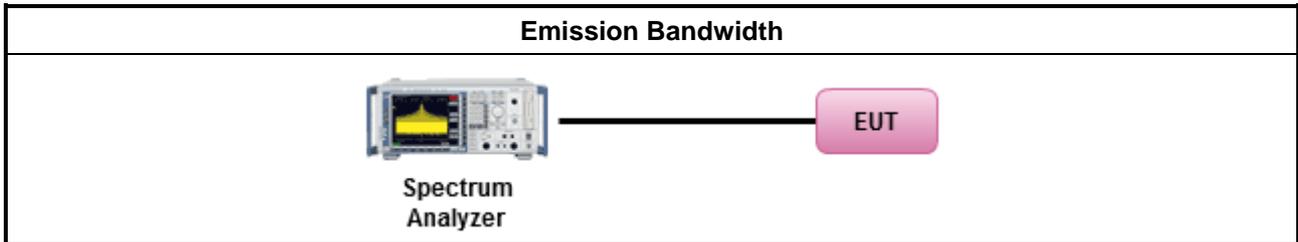
#### 3.2.2 Measuring Instruments

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 v03r01, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, 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.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/>	The EUT supports multiple transmit chains using options given below:
<input 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 checked="" 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

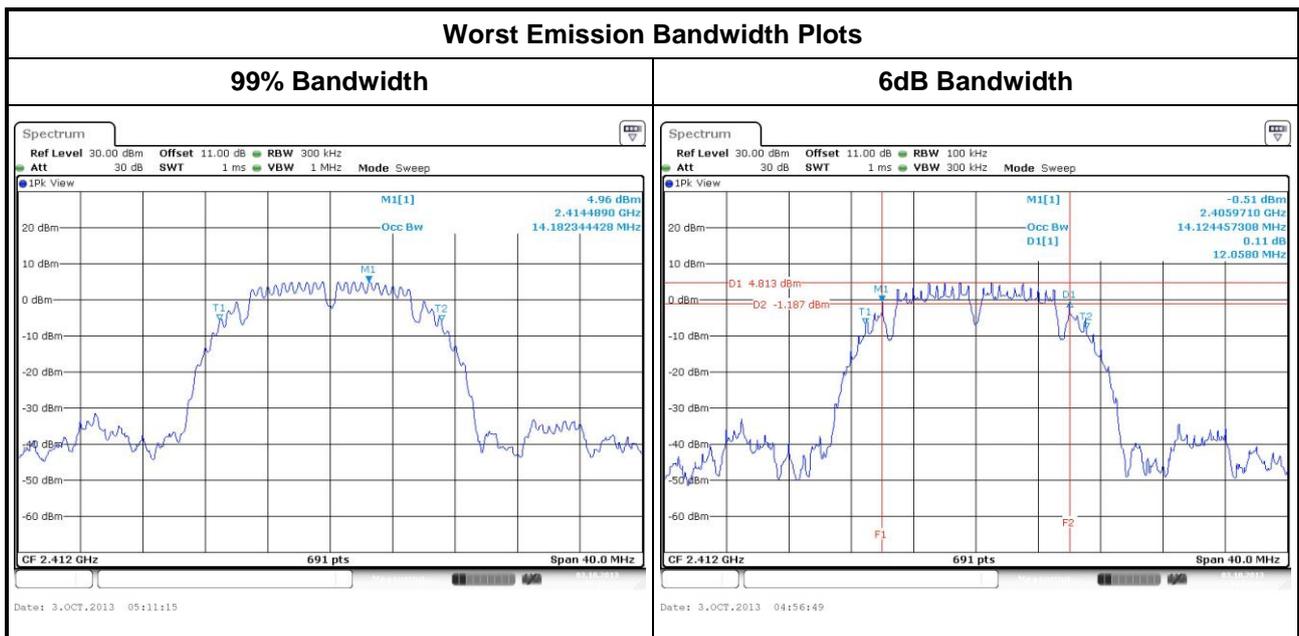




3.2.5 Test Result of Emission Bandwidth

Emission Bandwidth Result										
Operating Mode		1								
Condition			Emission Bandwidth (MHz)							
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	99% Bandwidth				6dB Bandwidth			
			Chain-Port 1	Chain-Port 2	Chain-Port 3	-	Chain-Port 1	Chain-Port 2	Chain-Port 3	-
11b	1	2412	14.18	-	-	-	12.06	-	-	-
11b	1	2437	14.18	-	-	-	12.06	-	-	-
11b	1	2462	14.18	-	-	-	12.06	-	-	-
11g	1	2412	17.02	-	-	-	16.35	-	-	-
11g	1	2437	17.08	-	-	-	16.35	-	-	-
11g	1	2462	17.02	-	-	-	16.35	-	-	-
HT-20	1	2412	18.12	-	-	-	17.62	-	-	-
HT-20	1	2437	18.12	-	-	-	17.62	-	-	-
HT-20	1	2462	18.06	-	-	-	17.62	-	-	-
HT-40	1	2422	36.24	-	-	-	35.13	-	-	-
HT-40	1	2437	36.24	-	-	-	35.13	-	-	-
HT-40	1	2452	36.24	-	-	-	35.13	-	-	-
Limit			N/A				≥500 kHz			
Result			Complied							

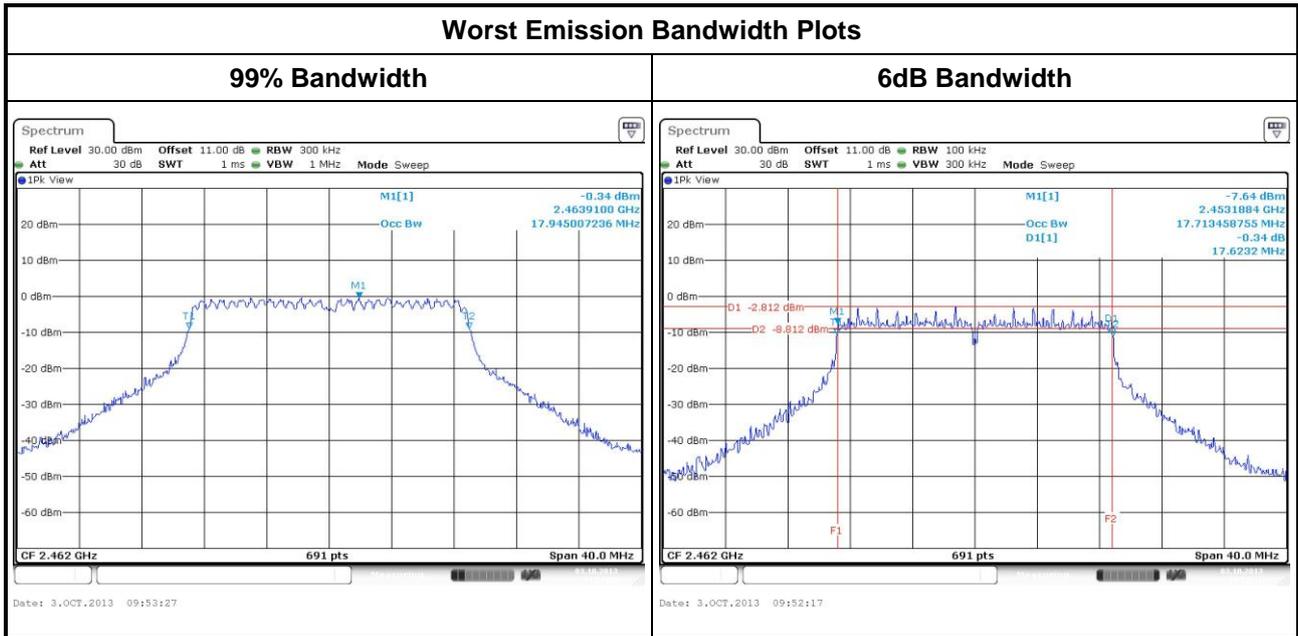
Note 1: N<sub>TX</sub> = Number of Transmit Chains





Emission Bandwidth Result										
Operating Mode			2							
Condition			Emission Bandwidth (MHz)							
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	99% Bandwidth				6dB Bandwidth			
			Chain-Port 1	Chain-Port 2	Chain-Port 3	-	Chain-Port 1	Chain-Port 2	Chain-Port 3	-
HT-20	2	2412	18.12	18.00	-	-	17.62	17.62	-	-
HT-20	2	2437	18.12	18.00	-	-	17.62	17.62	-	-
HT-20	2	2462	18.12	17.95	-	-	17.62	17.62	-	-
HT-40	2	2422	36.24	36.12	-	-	35.13	35.13	-	-
HT-40	2	2437	36.24	36.12	-	-	35.13	35.13	-	-
HT-40	2	2452	36.24	36.12	-	-	35.13	35.13	-	-
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"/> 2400-2483.5 MHz Band:	
<input checked="" type="checkbox"/>	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
<input type="checkbox"/>	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
<input type="checkbox"/>	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
<input type="checkbox"/>	Smart antenna system (SAS):
<input type="checkbox"/>	Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
<input type="checkbox"/>	Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
<input type="checkbox"/>	Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
<b>e.i.r.p. Power Limit:</b>	
<input checked="" type="checkbox"/> 2400-2483.5 MHz Band	
<input checked="" type="checkbox"/>	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
<input type="checkbox"/>	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
<input type="checkbox"/>	Smart antenna system (SAS)
<input type="checkbox"/>	Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
<input type="checkbox"/>	Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
<input type="checkbox"/>	Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
$P_{Out}$ = 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.	

RF Output Power Limit - IC	
<b>Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit and e.i.r.p.</b>	
<input checked="" type="checkbox"/> 2400-2483.5 MHz Band:	
<input checked="" type="checkbox"/>	Point-to-multipoint systems (P2M): $P_{Out} \leq 30$ dBm (1 W); $P_{eirp} \leq 36$ dBm (4 W)
<input type="checkbox"/>	Point-to-point systems (P2P): If $P_{eirp} > 36$ dBm, $G_{TX} \leq P_{Out}$
<input type="checkbox"/>	Smart antenna system (SAS): If $P_{eirp} > 36$ dBm, $G_{TX} \leq P_{Out}$
<input type="checkbox"/>	Single beam: follow P2M, P2P limits
<input type="checkbox"/>	Overlap beam: follow P2M limit
<input type="checkbox"/>	Aggregate power on all beams: follow P2M limit + 8dB
$P_{Out}$ = 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.	

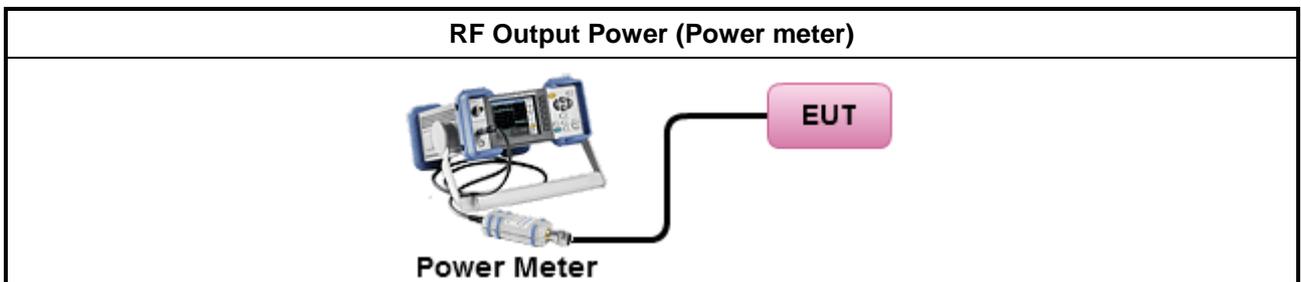
### 3.3.2 Measuring Instruments

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 v03r01, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 9.1.2 Option 2 (integrated band power method).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
<input checked="" type="checkbox"/>	Maximum Conducted (Average) Output Power ( For reference only)
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, 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 checked="" type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 9.2.3 Method AVGPM-G (using a gated 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.
<input type="checkbox"/>	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" 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 checked="" 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 Directional Gain for Power Measurement

Directional Gain (DG) Result					
Operating Mode		1			
Transmit Chains No.		1	-	-	-
Maximum G <sub>ANT</sub> (dBi)		0.77	-	-	-
Modulation Mode	DG (dBi)	N <sub>TX</sub>	N <sub>SS</sub>	STBC	Array Gain (dB)
11b,1-11Mbps	0.77	1	1	-	-
11g,6-54Mbps	0.77	1	1	-	-
HT-20,M0-M7	0.77	1	1	-	-
HT-40,M0-M7	0.77	1	1	-	-

Directional Gain (DG) Result					
Operating Mode		2			
Transmit Chains No.		1	2	-	-
Maximum G <sub>ANT</sub> (dBi)		0.77	-0.62	-	-
Modulation Mode	DG (dBi)	N <sub>TX</sub>	N <sub>SS</sub>	STBC	Array Gain (dB)
HT-20,M8-M15	0.13	2	2	-	-
HT-40,M8-M15	0.13	2	2	-	-

Note: Antenna pair 2 is selected for test. Directional gain =  $10 \log[10^{0.77/10} + 10^{-0.62/10}] / 2 = 0.13\text{dB}$

3.3.6 Test Result of Maximum Peak Conducted Output Power

Maximum Peak Conducted Output Power Result											
Operating Mode		1									
Condition			RF Output Power (dBm)								
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	-	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11b	1	2412	16.43	-	-	-	16.43	30.00	0.77	17.20	36.00
11b	1	2437	16.51	-	-	-	16.51	30.00	0.77	17.28	36.00
11b	1	2462	16.40	-	-	-	16.40	30.00	0.77	17.17	36.00
11g	1	2412	17.53	-	-	-	17.53	30.00	0.77	18.30	36.00
11g	1	2437	20.62	-	-	-	20.62	30.00	0.77	21.39	36.00
11g	1	2462	17.50	-	-	-	17.50	30.00	0.77	18.27	36.00
HT-20	1	2412	17.42	-	-	-	17.42	30.00	0.77	18.19	36.00
HT-20	1	2437	20.53	-	-	-	20.53	30.00	0.77	21.30	36.00
HT-20	1	2462	17.40	-	-	-	17.40	30.00	0.77	18.17	36.00
HT-40	1	2422	15.56	-	-	-	15.56	30.00	0.77	16.33	36.00
HT-40	1	2437	20.42	-	-	-	20.42	30.00	0.77	21.19	36.00
HT-40	1	2452	16.59	-	-	-	16.59	30.00	0.77	17.36	36.00
<b>Result</b>			<b>Complied</b>								

Maximum Peak Conducted Output Power Result											
Operating Mode		2									
Condition			RF Output Power (dBm)								
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	-	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT-20	2	2412	13.15	12.89	-	-	16.03	30.00	0.13	16.16	36.00
HT-20	2	2437	14.58	14.36	-	-	17.48	30.00	0.13	17.61	36.00
HT-20	2	2462	13.96	13.73	-	-	16.86	30.00	0.13	16.99	36.00
HT-40	2	2422	9.39	9.01	-	-	12.21	30.00	0.13	12.34	36.00
HT-40	2	2437	13.69	13.43	-	-	16.57	30.00	0.13	16.70	36.00
HT-40	2	2452	12.61	12.48	-	-	15.56	30.00	0.13	15.69	36.00
<b>Result</b>			<b>Complied</b>								

3.3.7 Test Result of Maximum Conducted Output Power (Reference only)

Maximum Conducted Output Power											
Operating Mode			1								
Condition			RF Output Power (dBm)								
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	-	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11b	1	2412	13.91	-	-	-	13.91	30.00	0.77	14.68	36.00
11b	1	2437	13.98	-	-	-	13.98	30.00	0.77	14.75	36.00
11b	1	2462	13.95	-	-	-	13.95	30.00	0.77	14.72	36.00
11g	1	2412	11.93	-	-	-	11.93	30.00	0.77	12.70	36.00
11g	1	2437	14.96	-	-	-	14.96	30.00	0.77	15.73	36.00
11g	1	2462	11.91	-	-	-	11.91	30.00	0.77	12.68	36.00
HT-20	1	2412	11.89	-	-	-	11.89	30.00	0.77	12.66	36.00
HT-20	1	2437	14.81	-	-	-	14.81	30.00	0.77	15.58	36.00
HT-20	1	2462	11.83	-	-	-	11.83	30.00	0.77	12.60	36.00
HT-40	1	2422	10.44	-	-	-	10.44	30.00	0.77	11.21	36.00
HT-40	1	2437	14.83	-	-	-	14.83	30.00	0.77	15.60	36.00
HT-40	1	2452	11.46	-	-	-	11.46	30.00	0.77	12.23	36.00
<b>Result</b>			<b>Complied</b>								

Maximum Conducted Output Power											
Operating Mode			2								
Condition			RF Output Power (dBm)								
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	-	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
HT-20	2	2412	7.59	7.32	-	-	10.47	30.00	0.13	10.60	36.00
HT-20	2	2437	9.06	8.76	-	-	11.92	30.00	0.13	12.05	36.00
HT-20	2	2462	8.54	8.22	-	-	11.39	30.00	0.13	11.52	36.00
HT-40	2	2422	4.15	3.80	-	-	6.99	30.00	0.13	7.12	36.00
HT-40	2	2437	8.62	8.34	-	-	11.49	30.00	0.13	11.62	36.00
HT-40	2	2452	7.51	7.41	-	-	10.47	30.00	0.13	10.60	36.00
<b>Result</b>			<b>Complied</b>								

### 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 dBm/3kHz

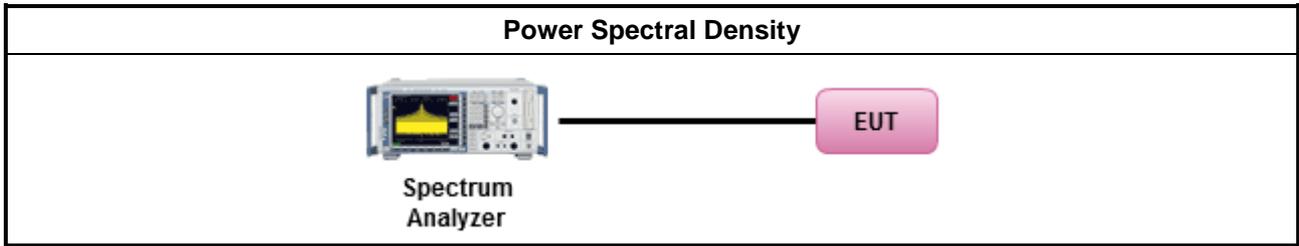
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the power spectral density. In addition, the use of a peak PSD procedure will always result in a "worst-case" measured level for comparison to the limit. Therefore, whenever the DTS bandwidth exceeds 500 kHz, it is acceptable to utilize the peak PSD procedure to demonstrate compliance to the PSD limit, regardless of how the fundamental output power was measured. For the power spectral density shall be measured using below options:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074 v03r01, clause 10.2 Method PKPSD (RBW=3kHz; detector=peak)..
<input type="checkbox"/> Refer as FCC KDB 558074 v03r01, clause 10.3 Method AVGPSD-1 (spectral trace averaging). For 11b / g / HT20 mode
<input type="checkbox"/> Refer as FCC KDB 558074 v03r01, clause 10.4 Method AVGPSD-1 Alt. (slow sweep speed)
<input type="checkbox"/> Refer as FCC KDB 558074 v03r01, clause 10.5 Method AVGPSD-2 (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074 v03r01, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed) For HT40 mode
<input checked="" type="checkbox"/> For conducted measurement.
<input checked="" type="checkbox"/> The EUT supports single transmit chain and measurements performed on this transmit chain.
<input type="checkbox"/> The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
<input checked="" type="checkbox"/> The EUT supports multiple transmit chains using options given below:
<input checked="" 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 <sub>TX</sub> 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

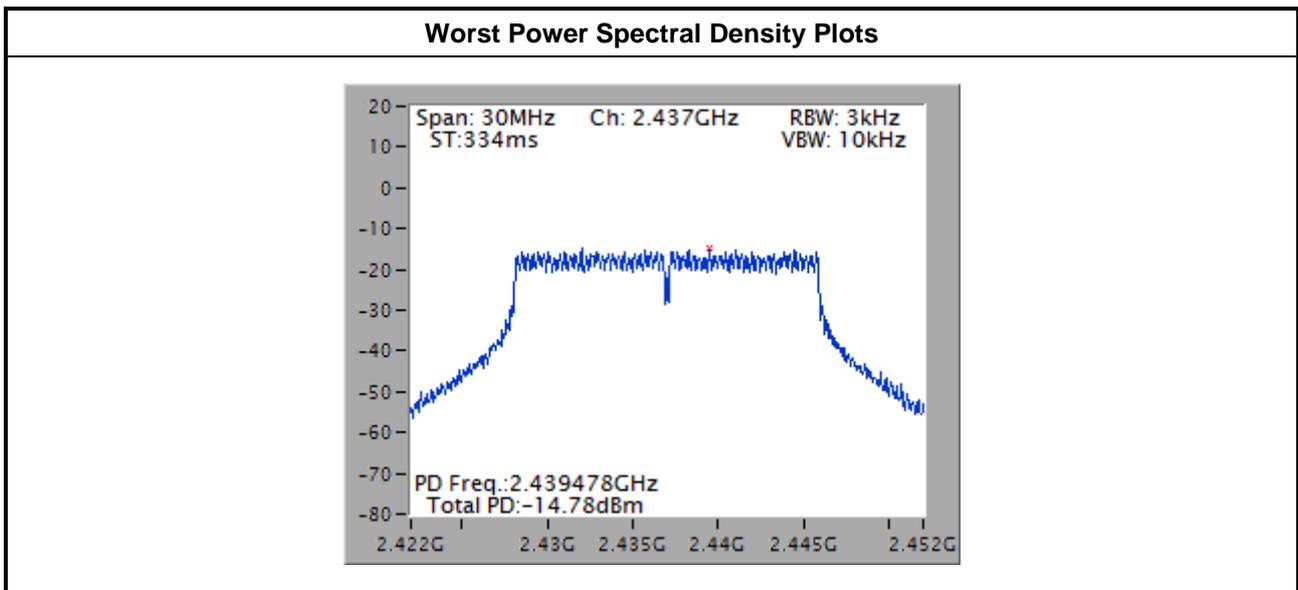






Power Spectral Density Result				
Operating Mode		2		
Condition		Power Spectral Density		
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Sum Chain (dBm/3kHz)	Power Limit (dBm/3kHz)
HT-20	2	2412	-15.97	8.00
HT-20	2	2437	-14.78	8.00
HT-20	2	2462	-14.92	8.00
HT-40	2	2422	-20.35	8.00
HT-40	2	2437	-17.03	8.00
HT-40	2	2452	-18.21	8.00
Result		Complied		

Note: Test result is bin-by-bin summing measured value of each TX port.



### 3.5 Emissions in Non-Restricted Frequency Bands

#### 3.5.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

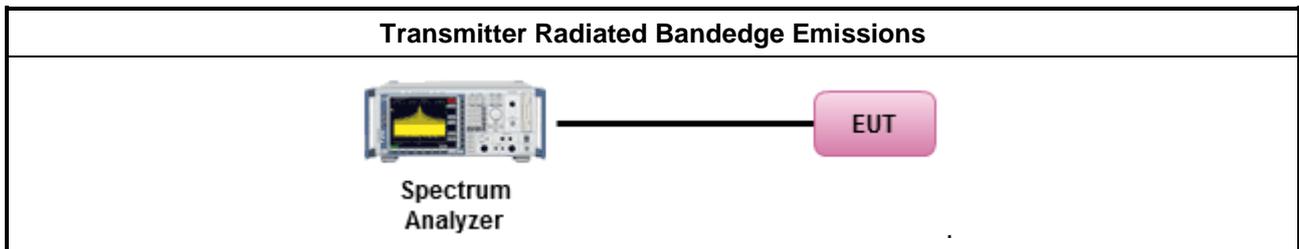
##### Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

##### Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

#### 3.5.4 Test Setup

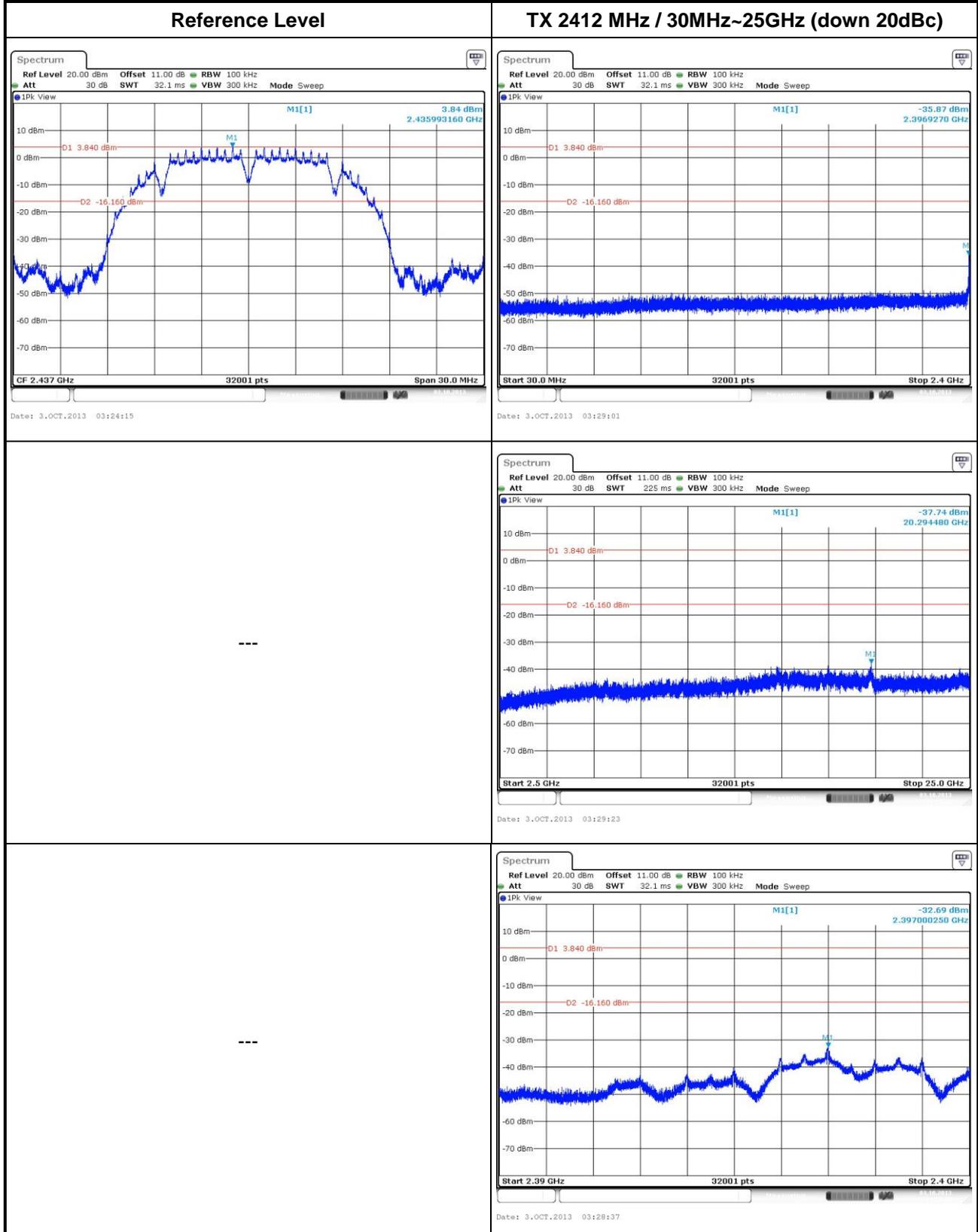


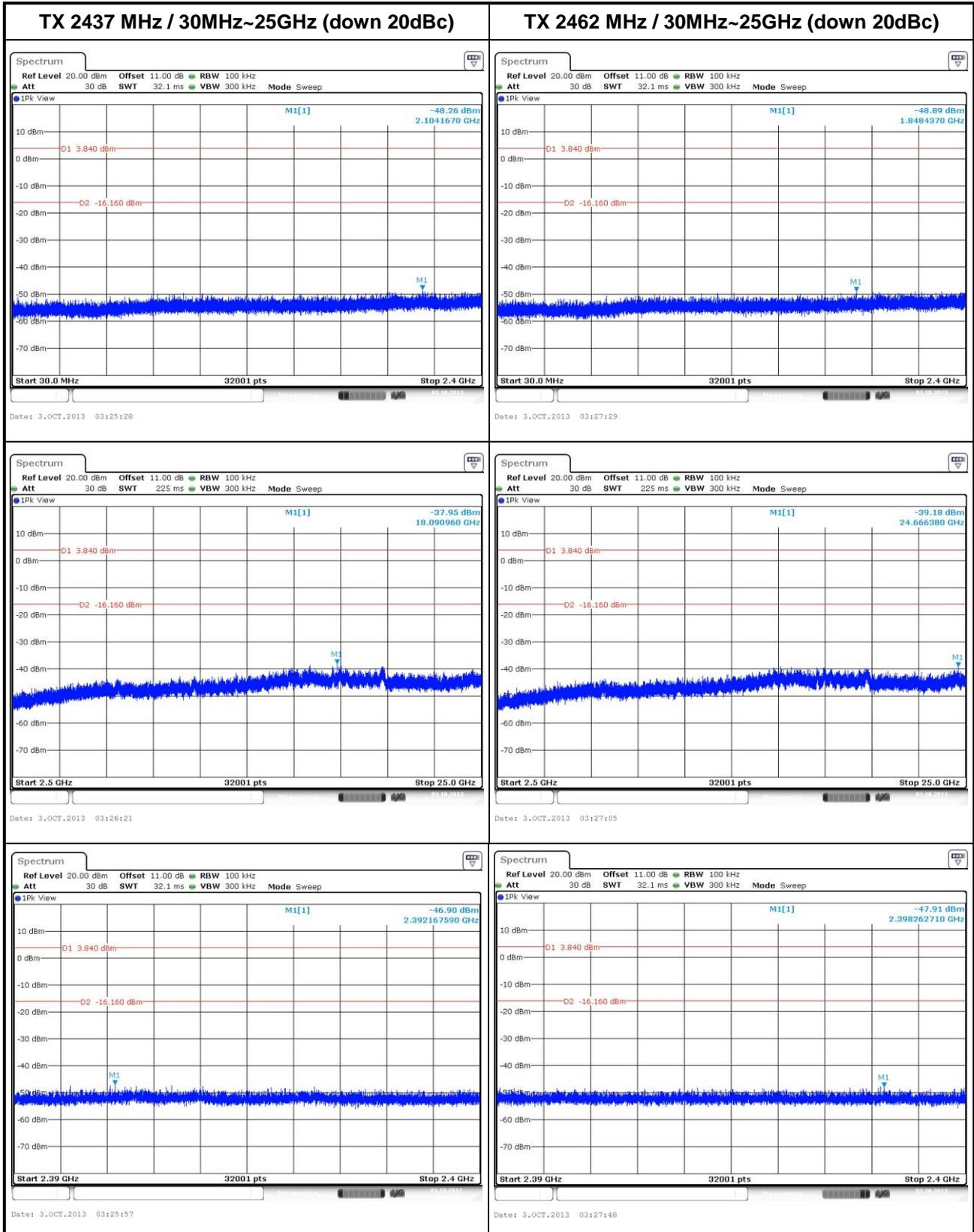
This test item is performed on each TX output individually without summing or adding  $10 \log(N_{ANT})$  since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.



### 3.5.5 Test Result of Emissions in non-restricted frequency bands – Mode 1

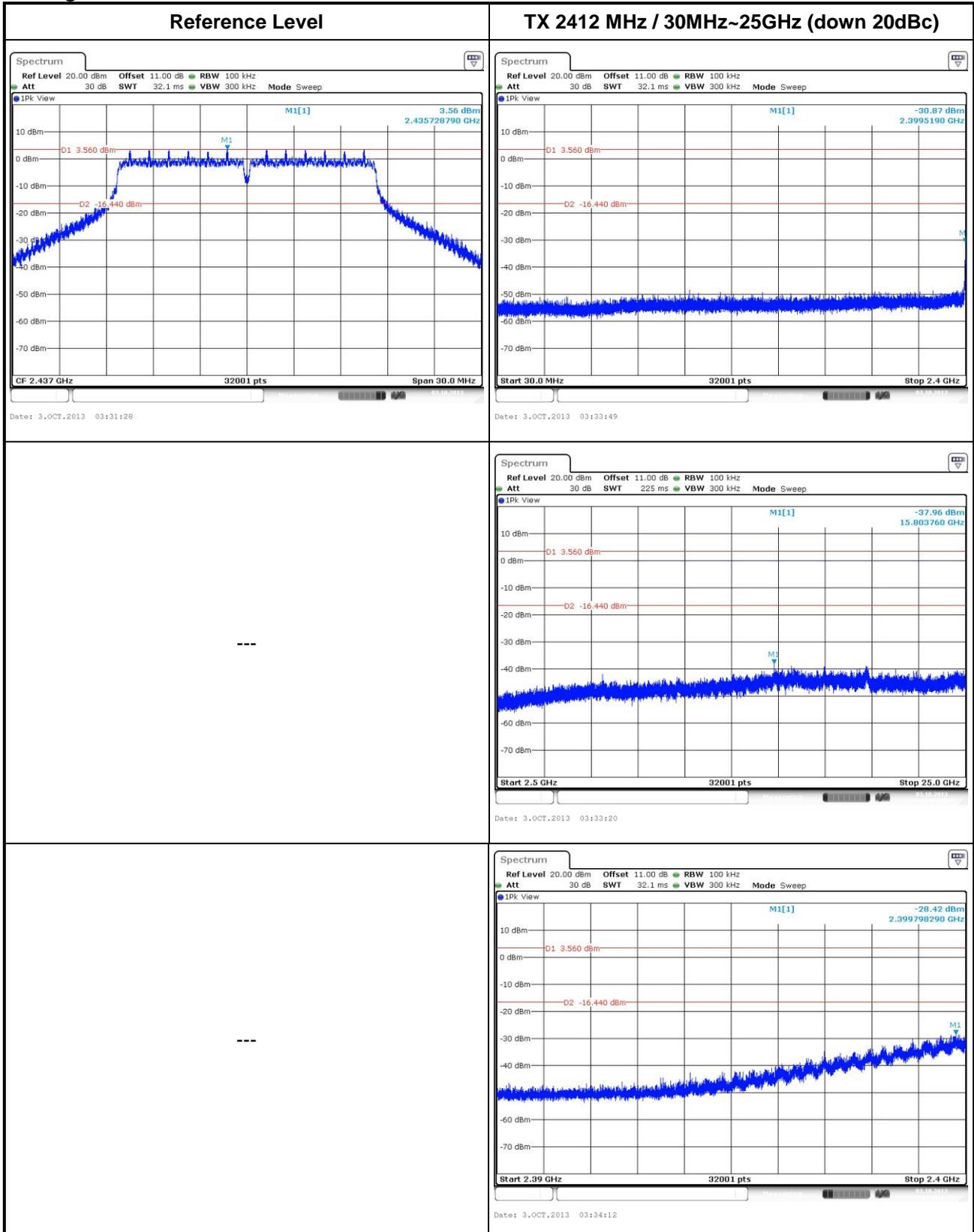
#### 802.11b







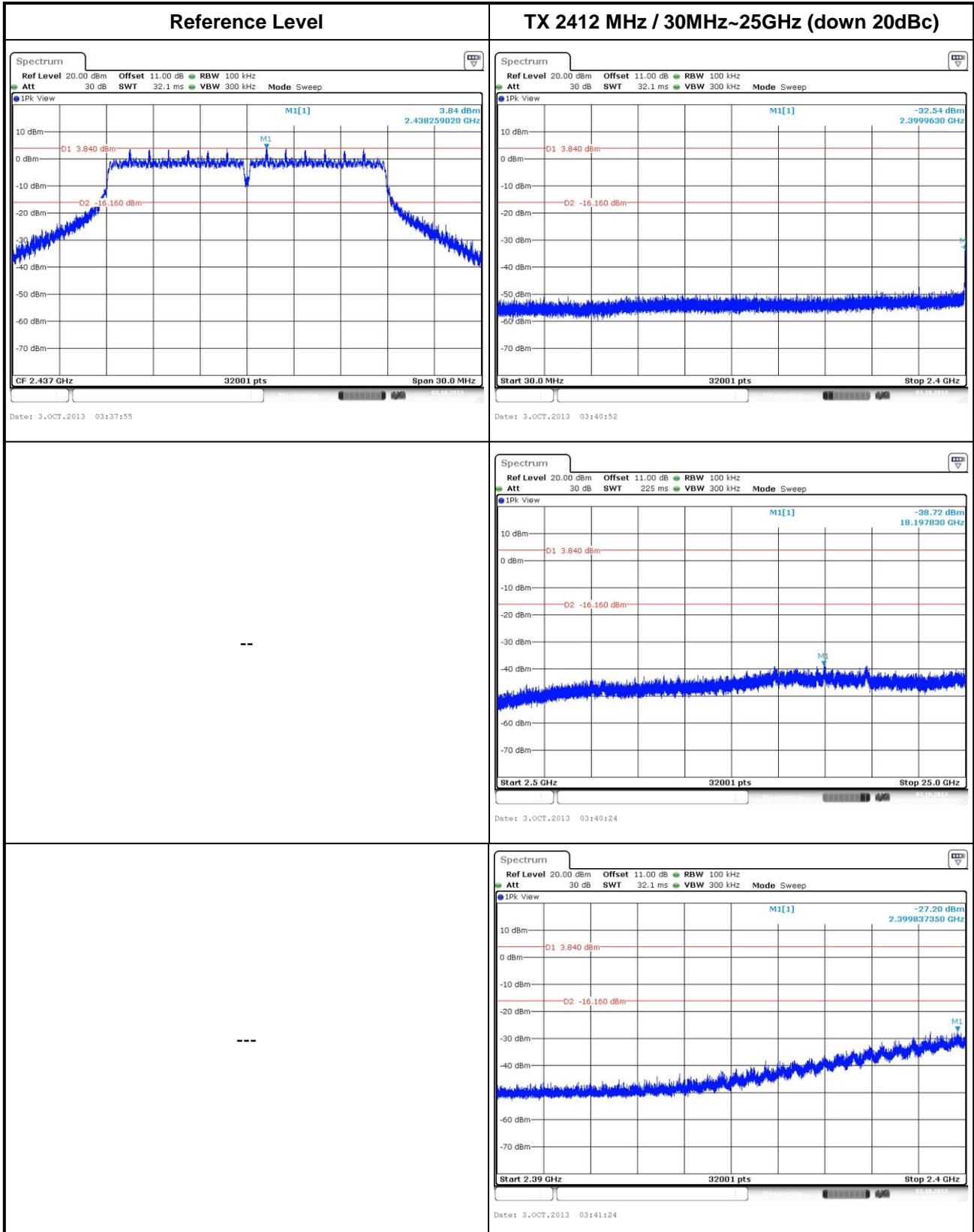
802.11g

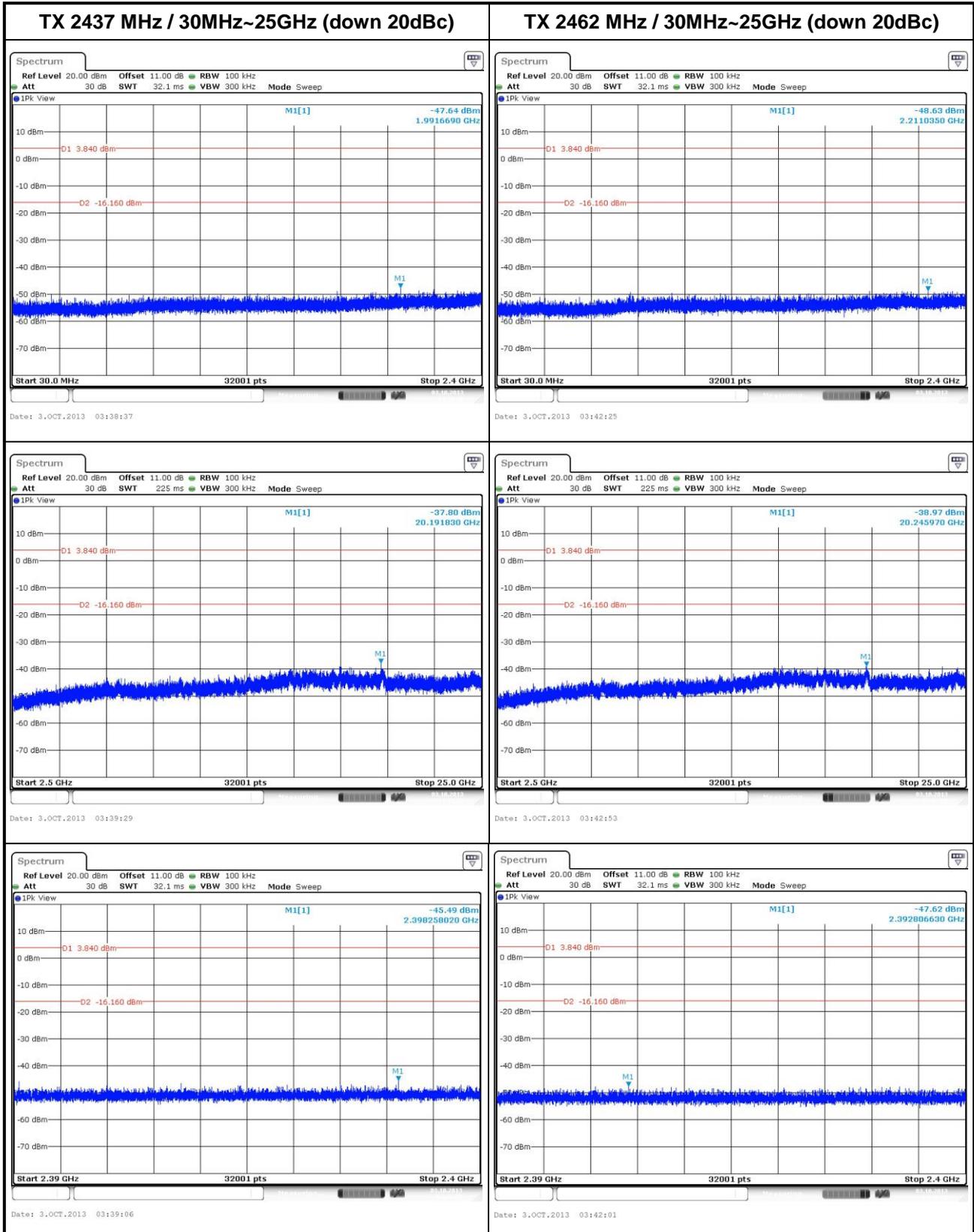






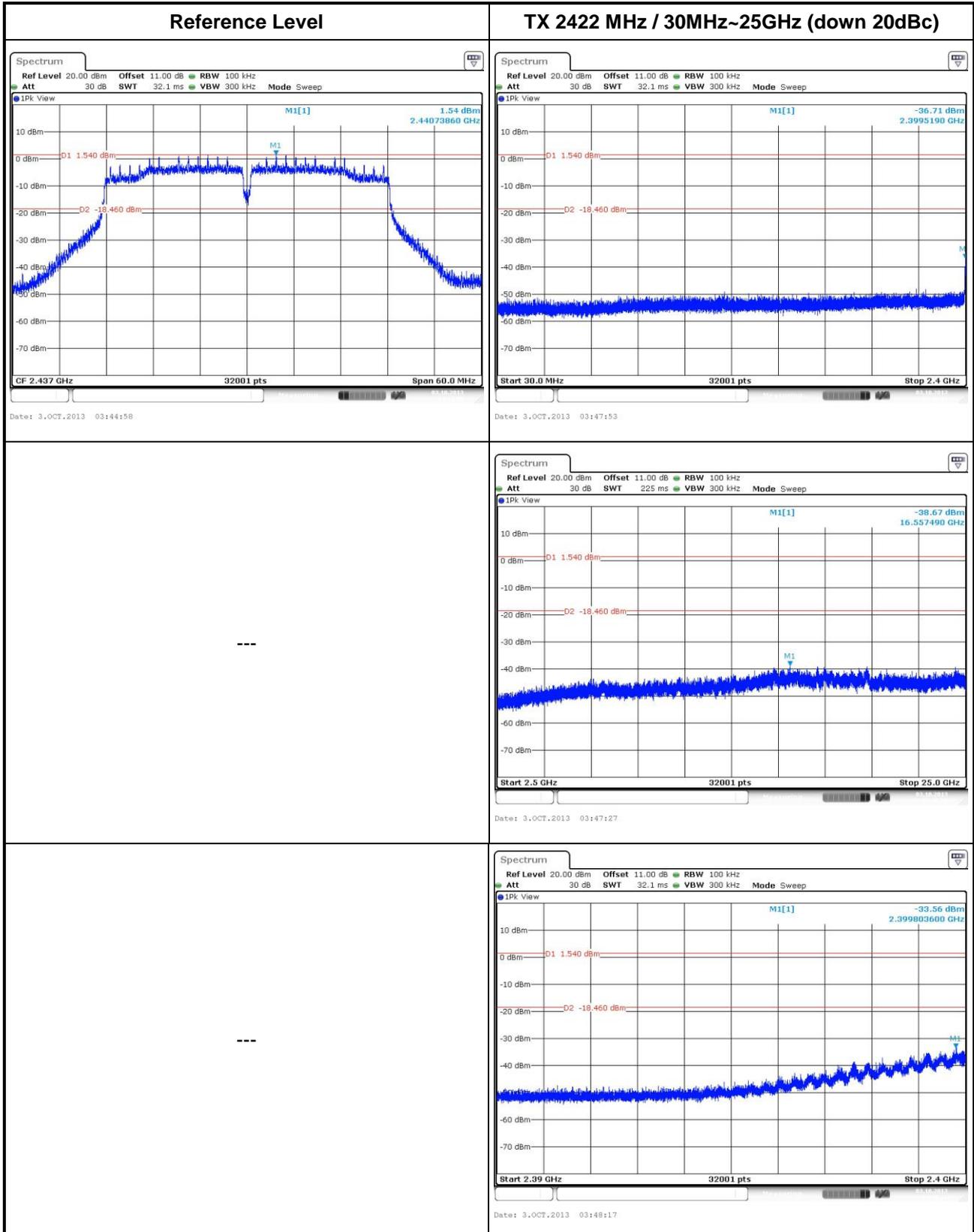
802.11n HT20

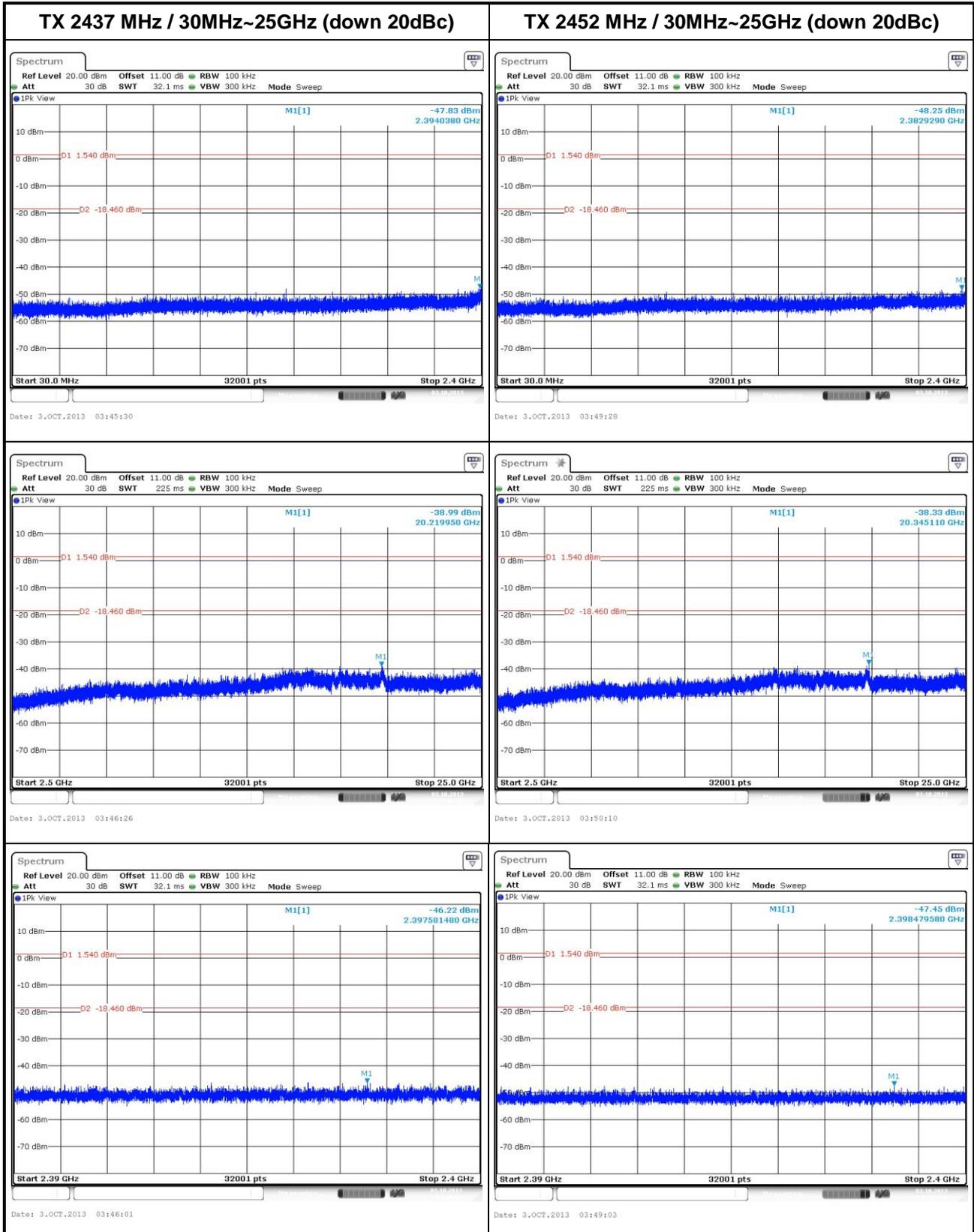






802.11n HT40

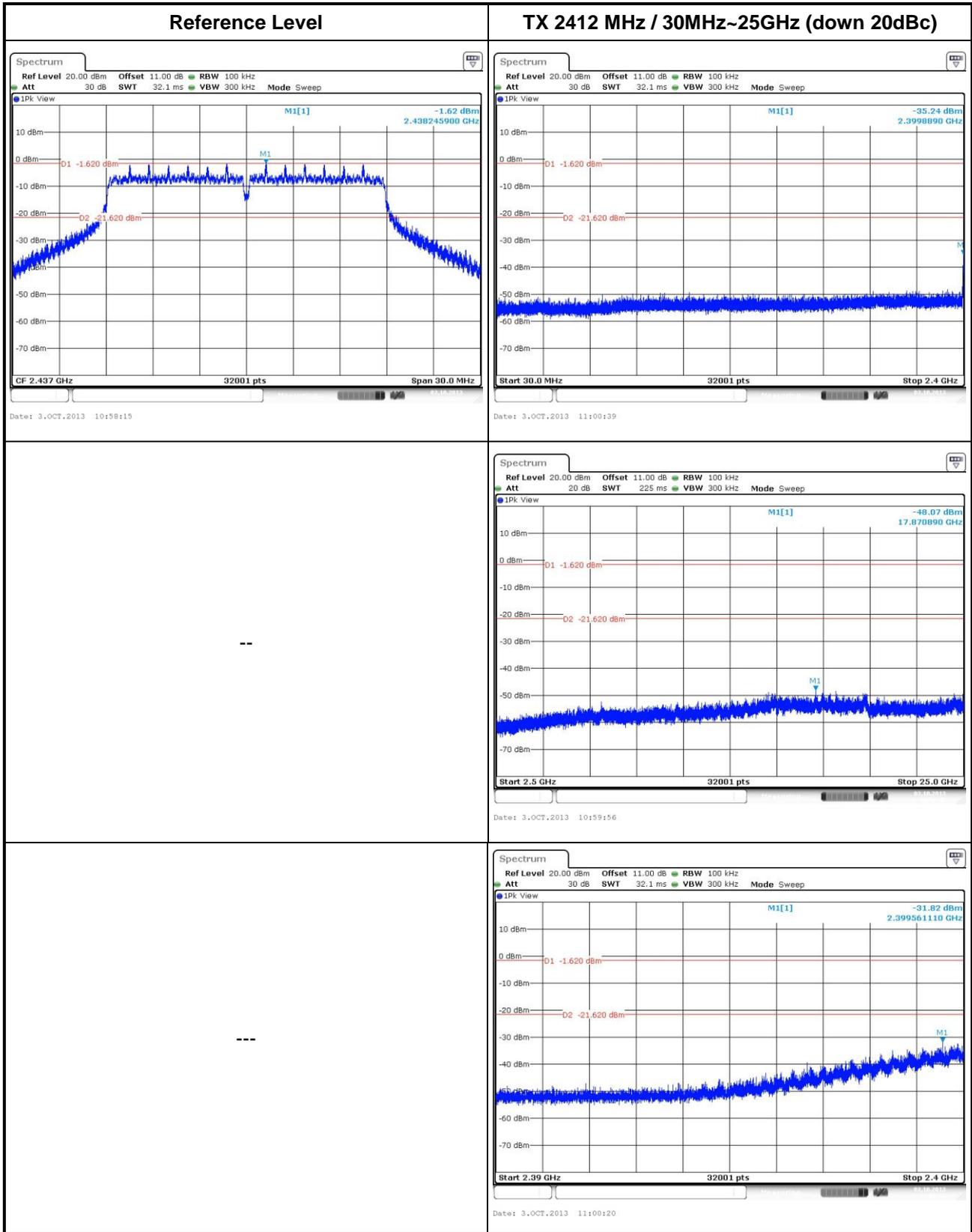


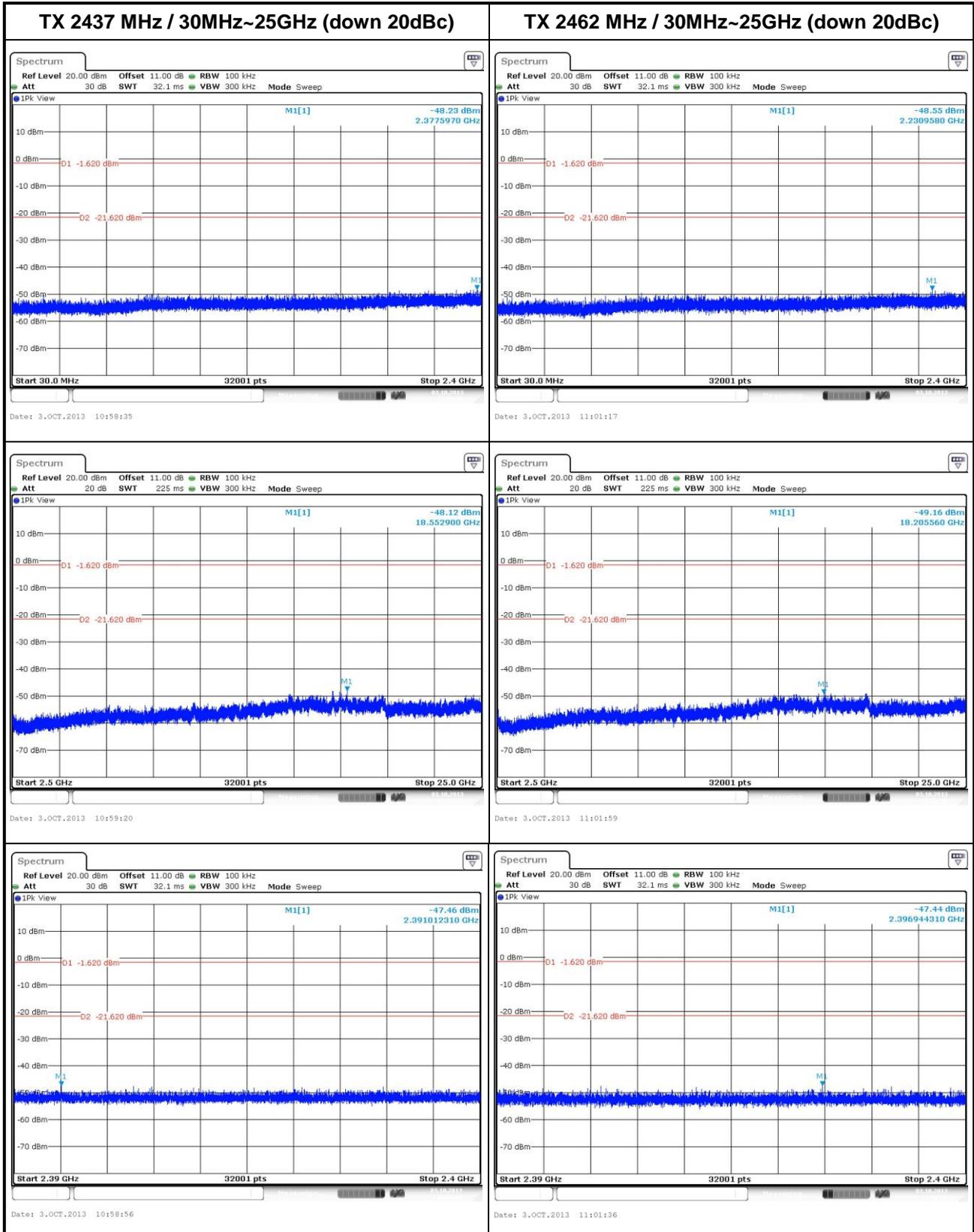




### 3.5.6 Test Result of Emissions in non-restricted frequency bands – Mode 2

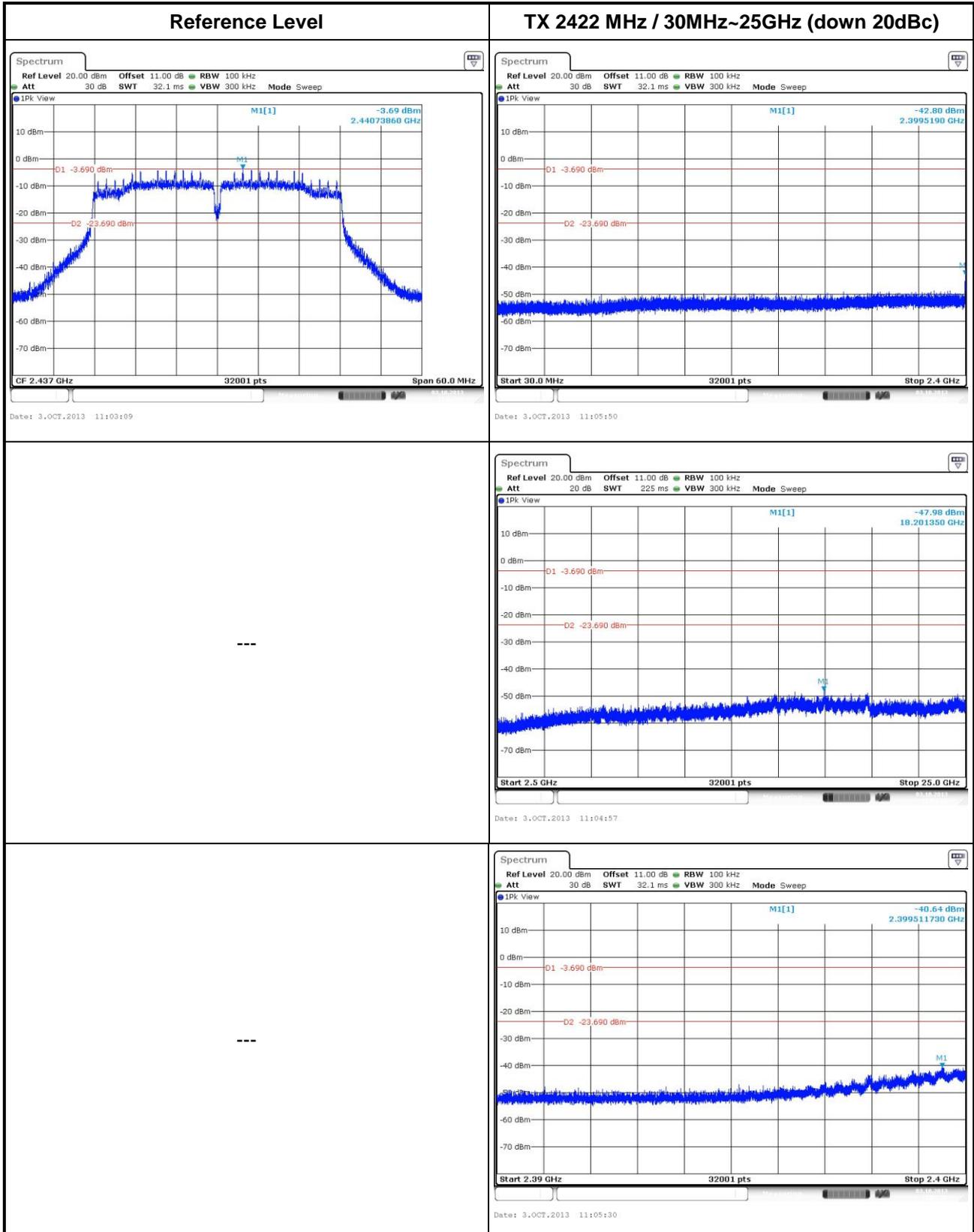
#### 802.11n HT20

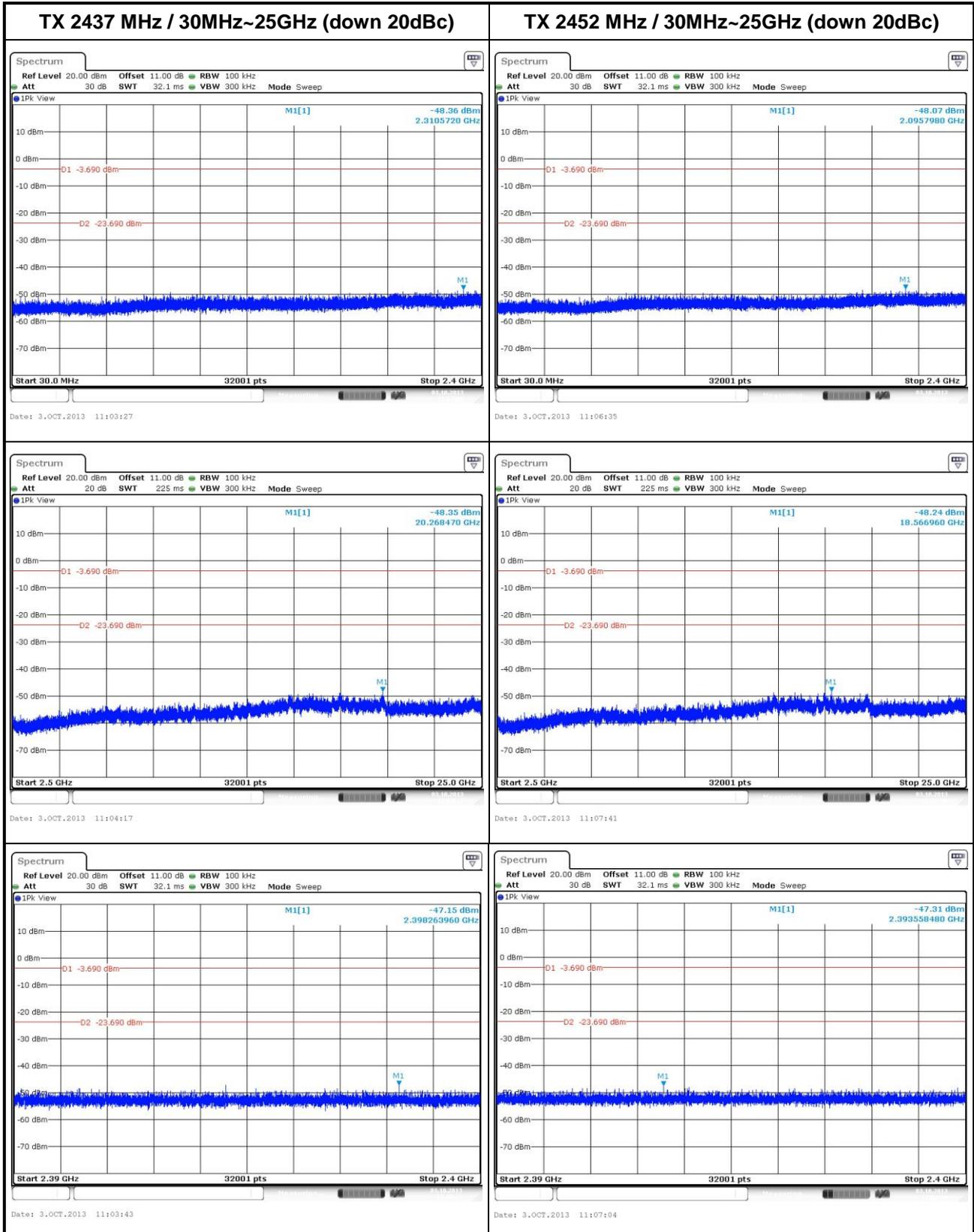






802.11n HT40





### 3.6 Transmitter Radiated 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

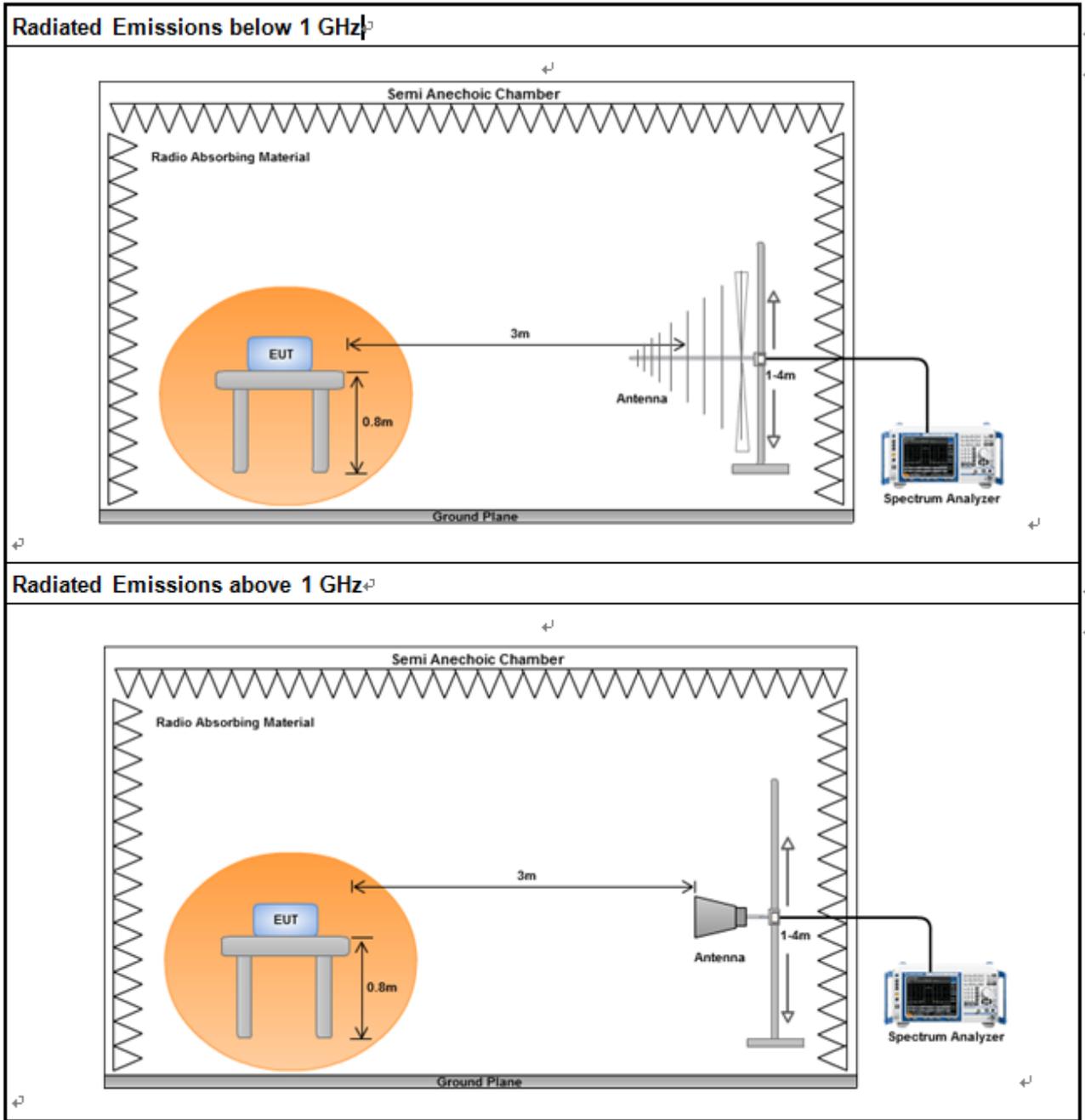
Refer a test equipment and calibration data table in this test report.



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"/>	For the transmitter unwanted emissions shall be measured using following options below:
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 11 for unwanted emissions into non-restricted bands.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 12 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$ )
<input type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$ ).
<input 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 v03r01, clause 11.3 and 12.2.4 measurement procedure peak limit.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074 v03r01, clause 12.2.3 measurement procedure Quasi-Peak limit.
<input checked="" type="checkbox"/>	For radiated measurement, refer as FCC KDB 558074 v03r01, clause 12.2.7.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.
<input type="checkbox"/>	For conducted and cabinet radiation measurement, refer as FCC KDB 558074 v03r01, clause 10.2.2.
<input type="checkbox"/>	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log(N)$ if the measurements are made relative to the in-band emissions on the individual outputs.
<input type="checkbox"/>	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add $10 \log(N)$ dB

### 3.6.4 Test Setup

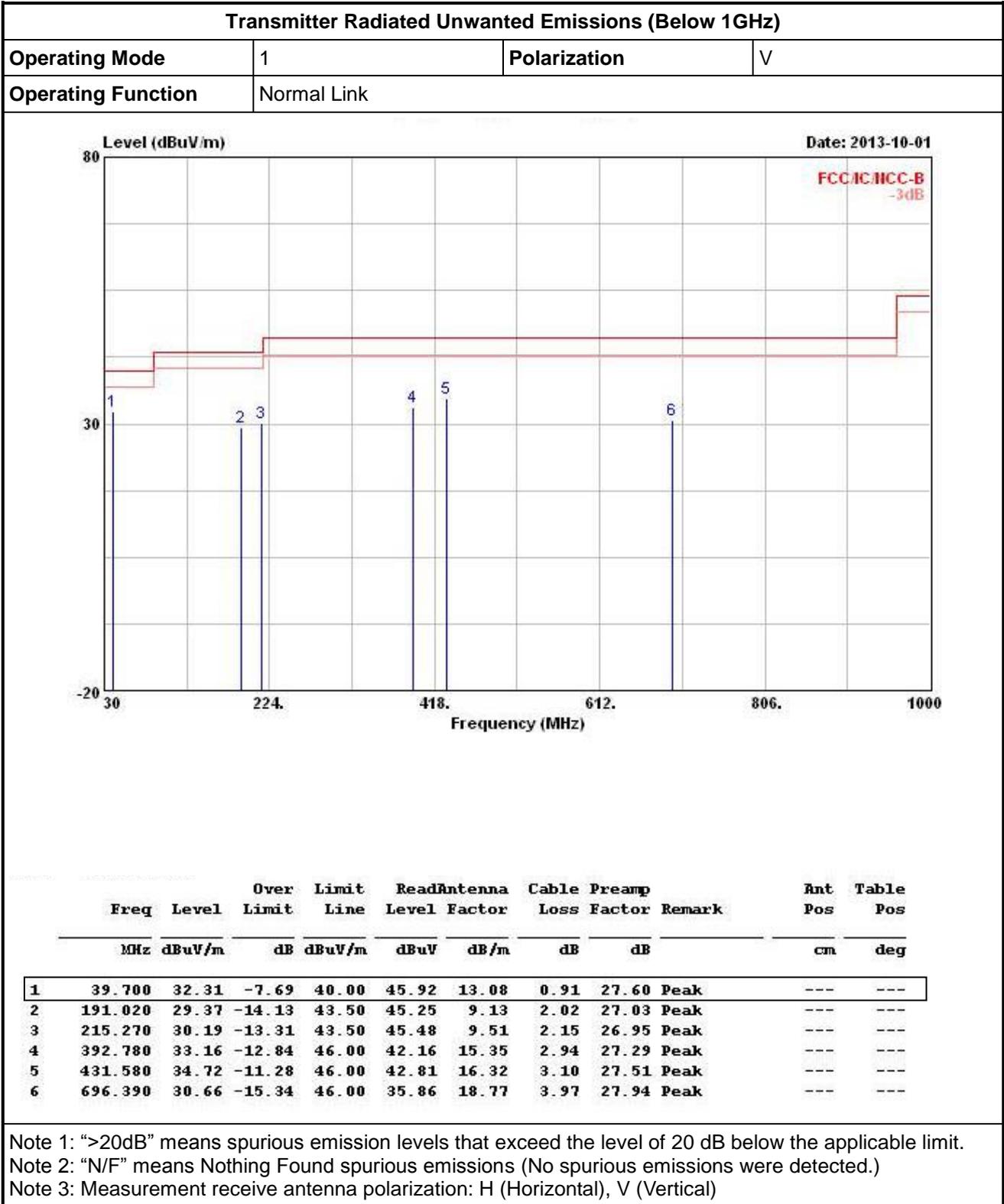


### 3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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



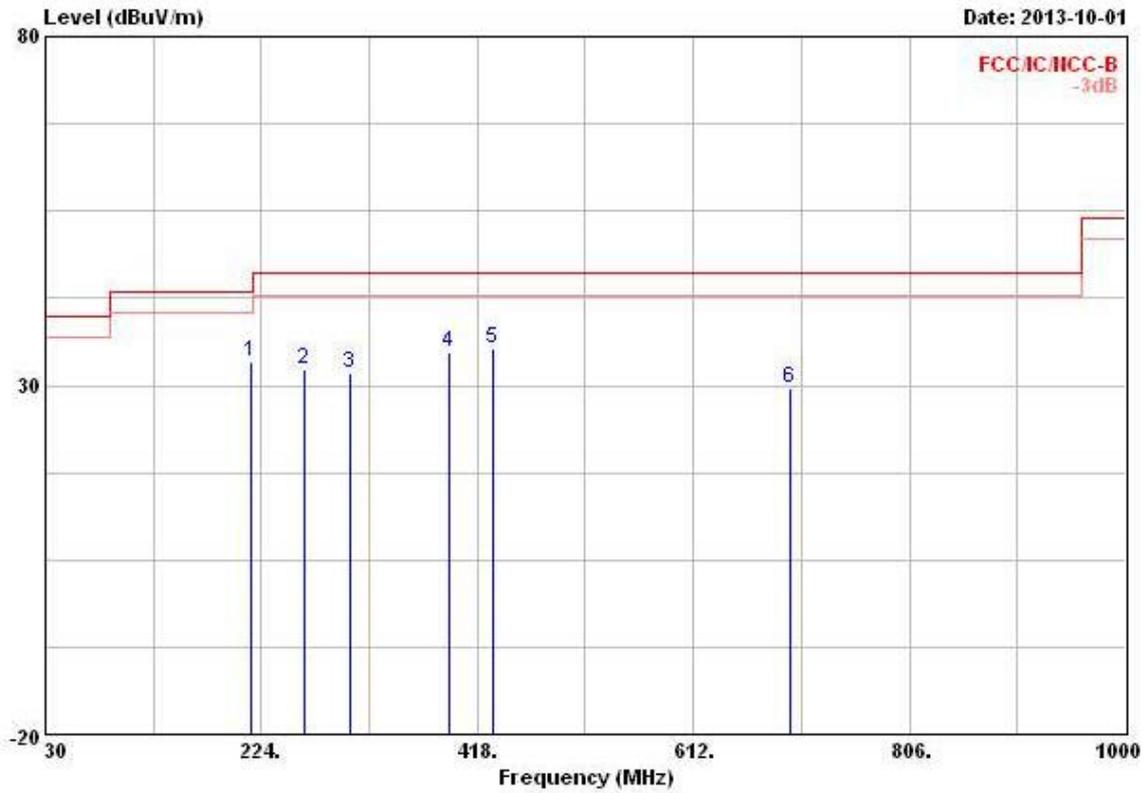
3.6.6 Radiated Emissions (Below 1GHz)





Transmitter Radiated Unwanted Emissions (Below 1GHz)

Operating Mode	1	Polarization	H
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg
1	215.270	33.39	-10.11	43.50	48.68	9.51	2.15	26.95	Peak	---	---
2	261.830	32.34	-13.66	46.00	43.10	13.66	2.37	26.79	Peak	---	---
3	303.540	31.82	-14.18	46.00	42.58	13.32	2.59	26.67	Peak	---	---
4	392.780	34.61	-11.39	46.00	43.61	15.35	2.94	27.29	Peak	---	---
5	431.580	35.20	-10.80	46.00	43.29	16.32	3.10	27.51	Peak	---	---
6	699.300	29.62	-16.38	46.00	34.77	18.81	3.98	27.94	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)



3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

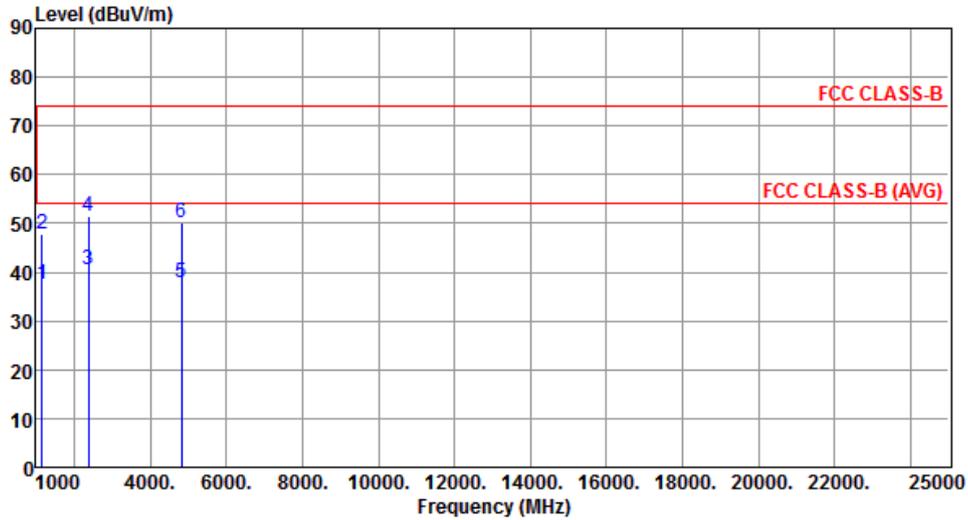
Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11b				Test Freq. (MHz)	2412			
Operating Mode	1, 1TX				Polarization	V			
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1160.00	34.25	54.00	-19.75	43.07	-8.82	Average	---	---
2	1160.00	47.16	74.00	-26.84	55.98	-8.82	Peak	---	---
3	2388.00	40.99	54.00	-13.01	43.90	-2.91	Average	---	---
4	2388.00	51.59	74.00	-22.41	54.50	-2.91	Peak	---	---
5	4824.00	39.12	54.00	-14.88	34.43	4.69	Average	---	---
6	4824.00	51.29	74.00	-22.71	46.60	4.69	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2412
Operating Mode	1, 1TX	Polarization	H



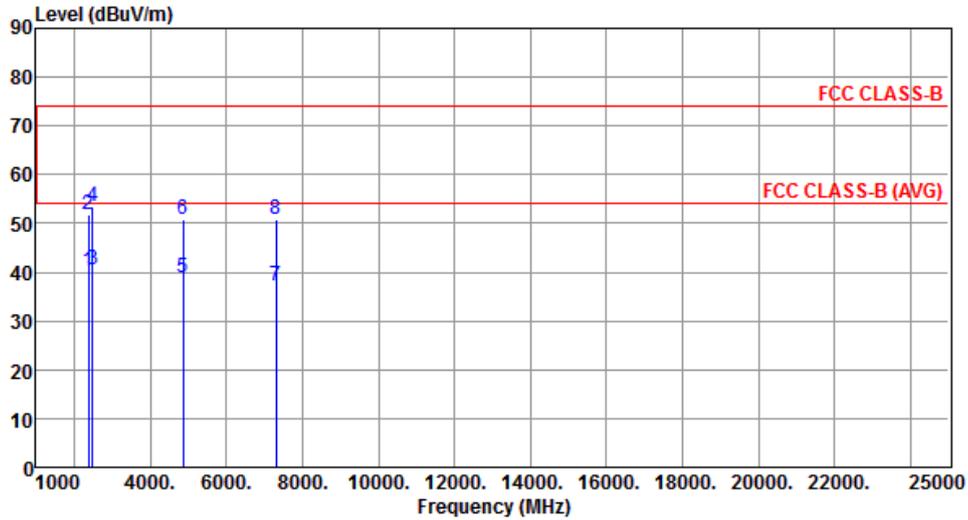
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.52	54.00	-16.48	46.34	-8.82	Average	---	---
2	1160.00	47.83	74.00	-26.17	56.65	-8.82	Peak	---	---
3	2388.00	40.39	54.00	-13.61	43.30	-2.91	Average	---	---
4	2388.00	51.59	74.00	-22.41	54.50	-2.91	Peak	---	---
5	4824.00	37.93	54.00	-16.07	33.24	4.69	Average	---	---
6	4824.00	50.28	74.00	-23.72	45.59	4.69	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	V

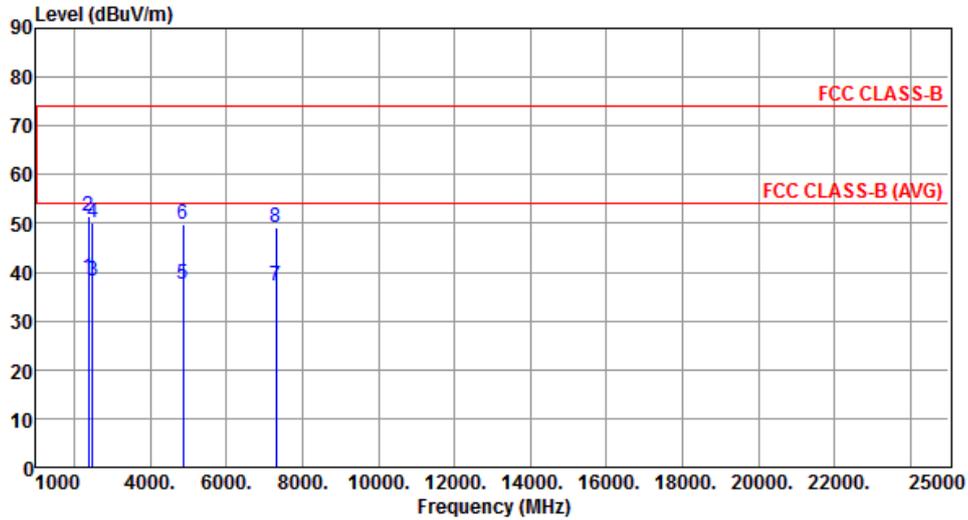


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	40.25	54.00	-13.75	43.15	-2.90	Average	---	---
2	2390.00	51.89	74.00	-22.11	54.79	-2.90	Peak	---	---
3	2483.50	40.36	54.00	-13.64	42.78	-2.42	Average	---	---
4	2483.50	53.58	74.00	-20.42	56.00	-2.42	Peak	---	---
5	4874.00	38.77	54.00	-15.23	34.00	4.77	Average	---	---
6	4874.00	50.87	74.00	-23.13	46.10	4.77	Peak	---	---
7	7311.00	37.24	54.00	-16.76	27.67	9.57	Average	---	---
8	7311.00	50.67	74.00	-23.33	41.10	9.57	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11b	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	H



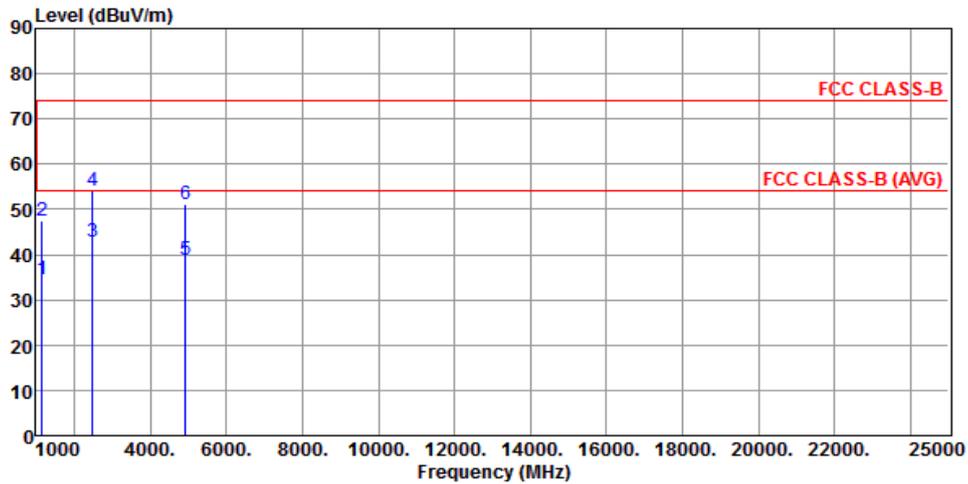
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.89	54.00	-15.11	41.79	-2.90	Average	---	---
2	2390.00	51.38	74.00	-22.62	54.28	-2.90	Peak	---	---
3	2483.50	38.12	54.00	-15.88	40.54	-2.42	Average	---	---
4	2483.50	50.10	74.00	-23.90	52.52	-2.42	Peak	---	---
5	4874.00	37.64	54.00	-16.36	32.87	4.77	Average	---	---
6	4874.00	49.94	74.00	-24.06	45.17	4.77	Peak	---	---
7	7311.00	37.24	54.00	-16.76	27.67	9.57	Average	---	---
8	7311.00	49.27	74.00	-24.73	39.70	9.57	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2462
Operating Mode	1, 1TX	Polarization	V



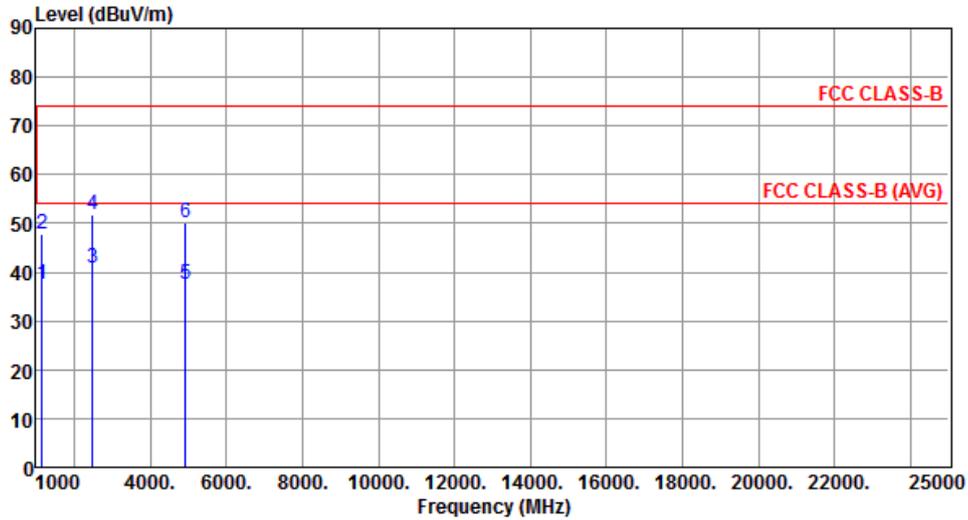
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.60	54.00	-19.40	43.42	-8.82	Average	---	---
2	1160.00	47.39	74.00	-26.61	56.21	-8.82	Peak	---	---
3	2486.00	42.80	54.00	-11.20	45.21	-2.41	Average	---	---
4	2486.00	54.02	74.00	-19.98	56.43	-2.41	Peak	---	---
5	4924.00	38.94	54.00	-15.06	34.08	4.86	Average	---	---
6	4924.00	51.06	74.00	-22.94	46.20	4.86	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2462
Operating Mode	1, 1TX	Polarization	H



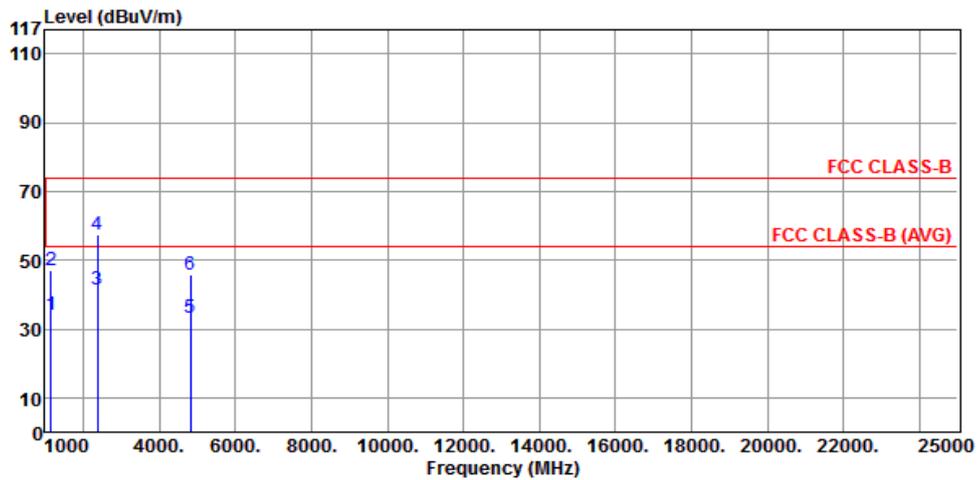
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.61	54.00	-16.39	46.43	-8.82	Average	---	---
2	1160.00	47.79	74.00	-26.21	56.61	-8.82	Peak	---	---
3	2486.00	40.89	54.00	-13.11	43.30	-2.41	Average	---	---
4	2486.00	51.79	74.00	-22.21	54.20	-2.41	Peak	---	---
5	4924.00	37.59	54.00	-16.41	32.73	4.86	Average	---	---
6	4924.00	50.02	74.00	-23.98	45.16	4.86	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.



3.6.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11g	Test Freq. (MHz)	2412
Operating Mode	1, 1TX	Polarization	V



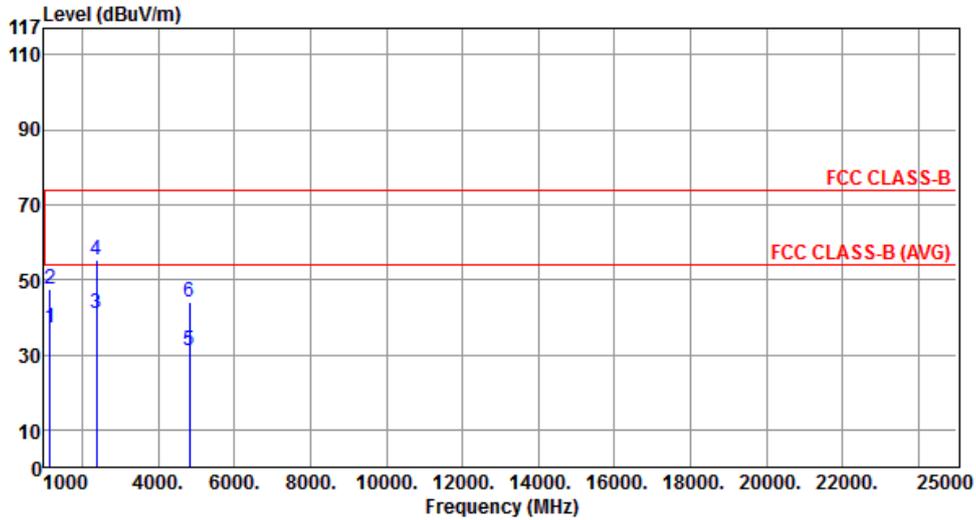
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.02	54.00	-19.98	42.84	-8.82	Average	---	---
2	1160.00	46.86	74.00	-27.14	55.68	-8.82	Peak	---	---
3	2390.00	41.31	54.00	-12.69	44.21	-2.90	Average	---	---
4	2390.00	57.51	74.00	-16.49	60.41	-2.90	Peak	---	---
5	4824.00	33.15	54.00	-20.85	28.46	4.69	Average	---	---
6	4824.00	45.86	74.00	-28.14	41.17	4.69	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2412
Operating Mode	1, 1TX	Polarization	H



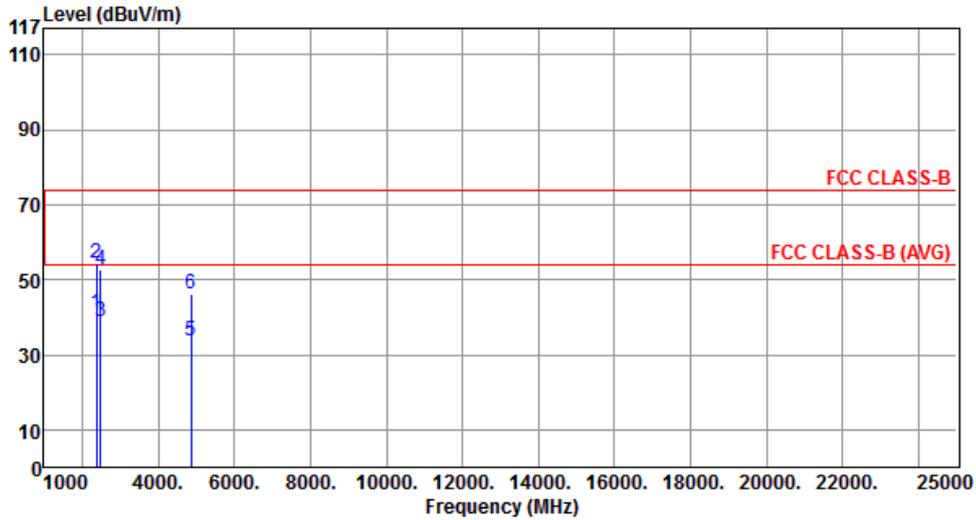
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.13	54.00	-16.87	45.95	-8.82	Average	---	---
2	1160.00	47.43	74.00	-26.57	56.25	-8.82	Peak	---	---
3	2390.00	40.91	54.00	-13.09	43.81	-2.90	Average	---	---
4	2390.00	55.41	74.00	-18.59	58.31	-2.90	Peak	---	---
5	4824.00	31.00	54.00	-23.00	26.31	4.69	Average	---	---
6	4824.00	44.13	74.00	-29.87	39.44	4.69	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	V



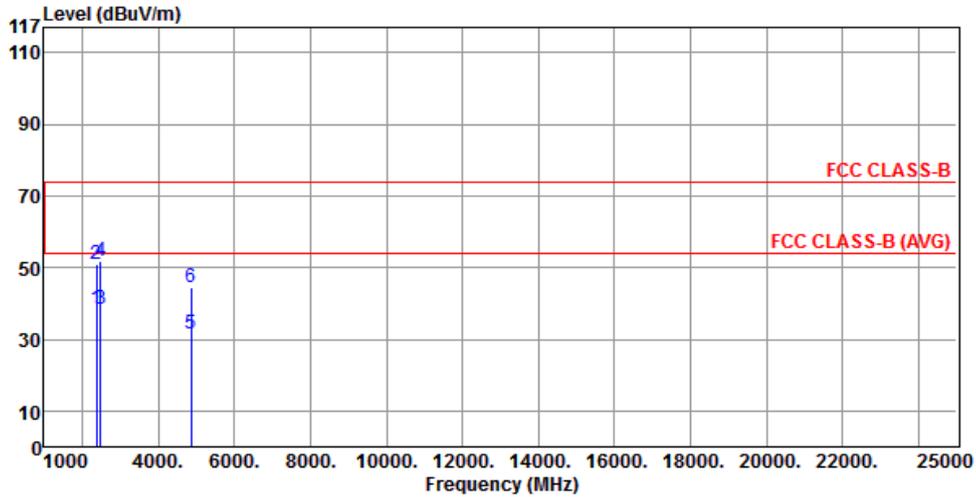
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	40.91	54.00	-13.09	43.81	-2.90	Average	---	---
2	2390.00	54.54	74.00	-19.46	57.44	-2.90	Peak	---	---
3	2483.50	38.98	54.00	-15.02	41.40	-2.42	Average	---	---
4	2483.50	52.68	74.00	-21.32	55.10	-2.42	Peak	---	---
5	4874.00	33.52	54.00	-20.48	28.75	4.77	Average	---	---
6	4874.00	46.18	74.00	-27.82	41.41	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	H

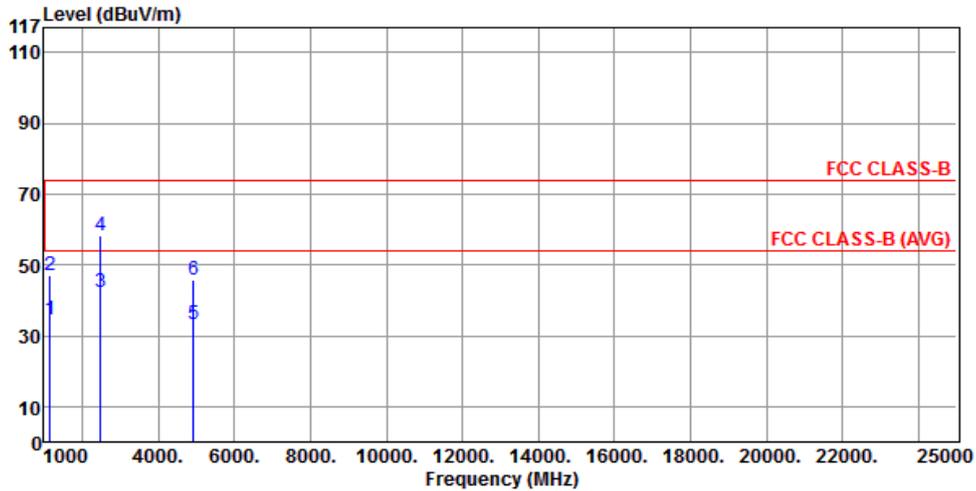


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.41	54.00	-15.59	41.31	-2.90	Average	---	---
2	2390.00	51.01	74.00	-22.99	53.91	-2.90	Peak	---	---
3	2483.50	38.38	54.00	-15.62	40.80	-2.42	Average	---	---
4	2483.50	51.98	74.00	-22.02	54.40	-2.42	Peak	---	---
5	4874.00	31.63	54.00	-22.37	26.86	4.77	Average	---	---
6	4874.00	44.47	74.00	-29.53	39.70	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	11g	Test Freq. (MHz)	2462
Operating Mode	1, 1TX	Polarization	V



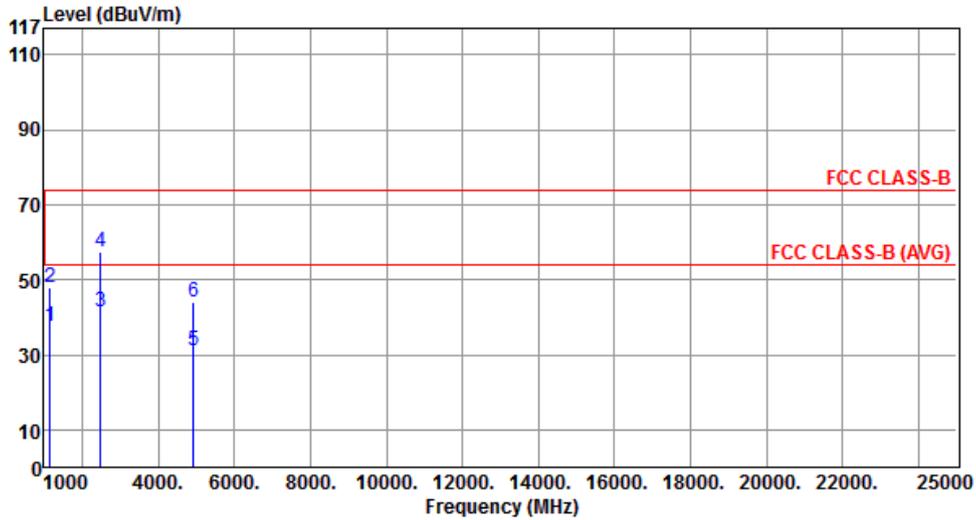
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.42	54.00	-19.58	43.24	-8.82	Average	---	---
2	1160.00	47.13	74.00	-26.87	55.95	-8.82	Peak	---	---
3	2483.50	42.18	54.00	-11.82	44.60	-2.42	Average	---	---
4	2483.50	58.38	74.00	-15.62	60.80	-2.42	Peak	---	---
5	4924.00	33.15	54.00	-20.85	28.29	4.86	Average	---	---
6	4924.00	45.86	74.00	-28.14	41.00	4.86	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2462
Operating Mode	1, 1TX	Polarization	H



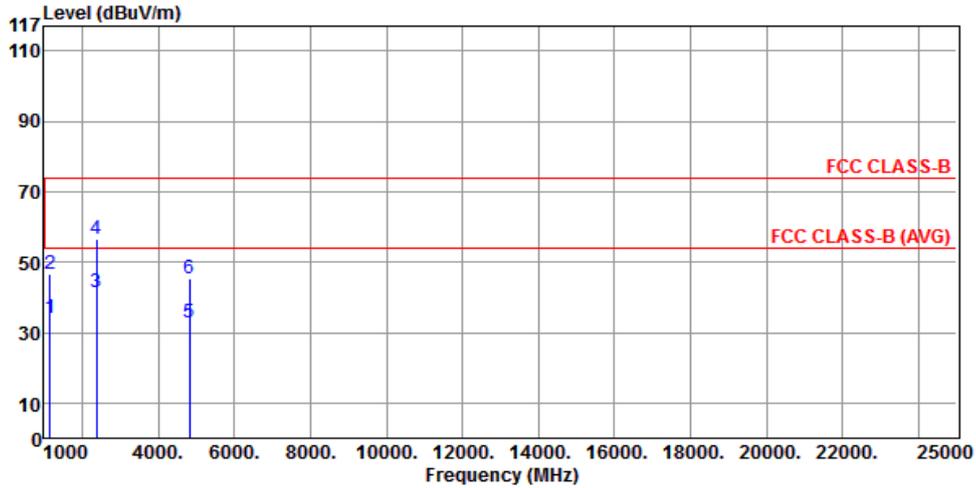
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.46	54.00	-16.54	46.28	-8.82	Average	---	---
2	1160.00	47.82	74.00	-26.18	56.64	-8.82	Peak	---	---
3	2483.50	41.58	54.00	-12.42	44.00	-2.42	Average	---	---
4	2483.50	57.43	74.00	-16.57	59.85	-2.42	Peak	---	---
5	4924.00	31.00	54.00	-23.00	26.14	4.86	Average	---	---
6	4924.00	44.13	74.00	-29.87	39.27	4.86	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.



3.6.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-20 (1TX)

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT20	Test Freq. (MHz)	2412
Operating Mode	1, 1TX	Polarization	V



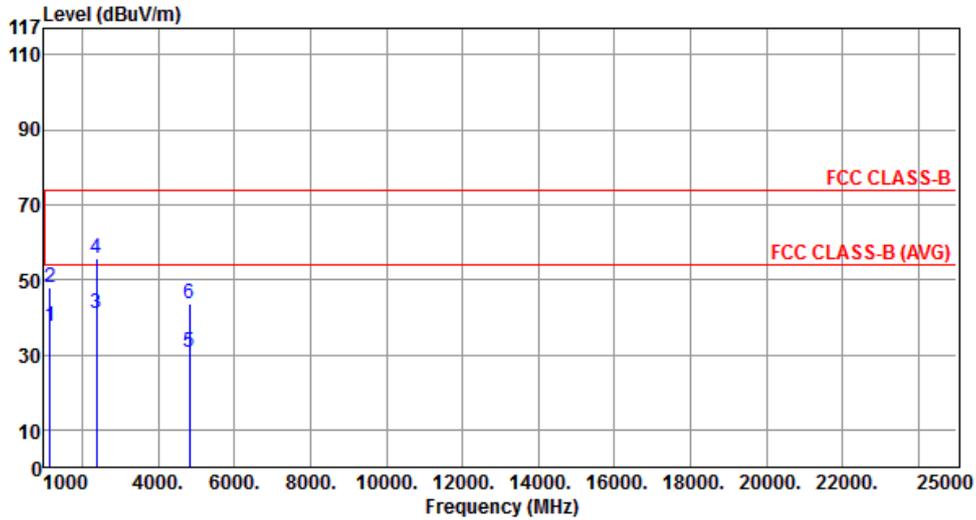
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.29	54.00	-19.71	43.11	-8.82	Average	---	---
2	1160.00	46.56	74.00	-27.44	55.38	-8.82	Peak	---	---
3	2390.00	41.51	54.00	-12.49	44.41	-2.90	Average	---	---
4	2390.00	56.64	74.00	-17.36	59.54	-2.90	Peak	---	---
5	4824.00	32.85	54.00	-21.15	28.16	4.69	Average	---	---
6	4824.00	45.43	74.00	-28.57	40.74	4.69	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2412
Operating Mode	1, 1TX	Polarization	H



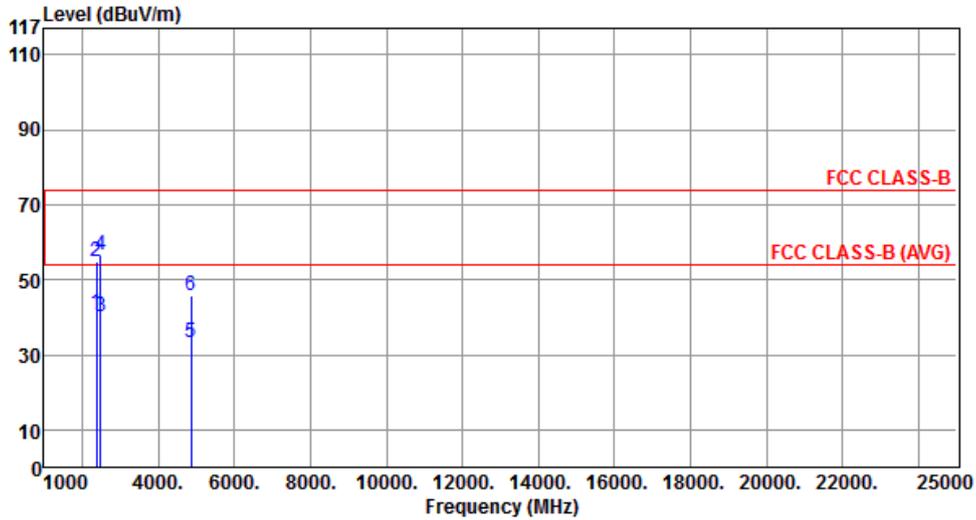
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.43	54.00	-16.57	46.25	-8.82	Average	---	---
2	1160.00	47.76	74.00	-26.24	56.58	-8.82	Peak	---	---
3	2390.00	41.08	54.00	-12.92	43.98	-2.90	Average	---	---
4	2390.00	55.78	74.00	-18.22	58.68	-2.90	Peak	---	---
5	4824.00	30.86	54.00	-23.14	26.17	4.69	Average	---	---
6	4824.00	43.74	74.00	-30.26	39.05	4.69	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	V



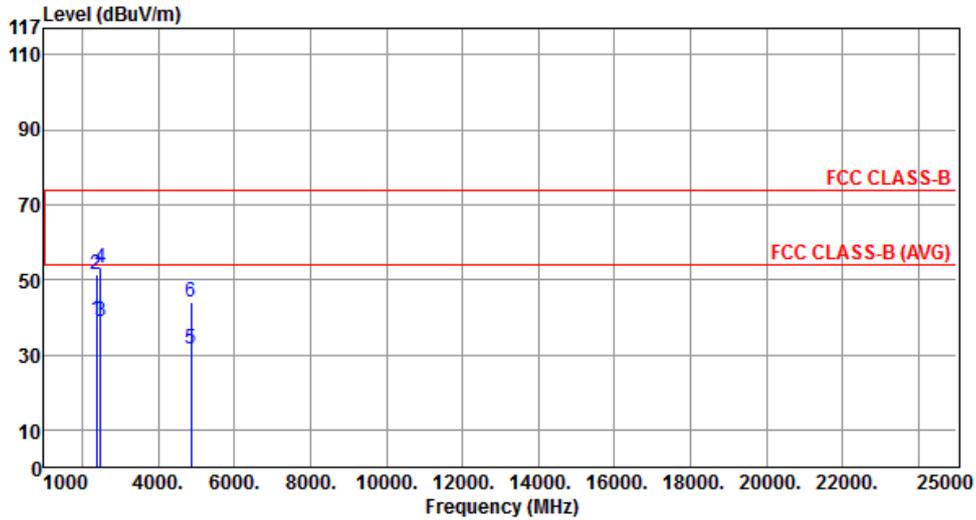
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	41.11	54.00	-12.89	44.01	-2.90	Average	---	---
2	2390.00	54.71	74.00	-19.29	57.61	-2.90	Peak	---	---
3	2483.50	40.18	54.00	-13.82	42.60	-2.42	Average	---	---
4	2483.50	56.48	74.00	-17.52	58.90	-2.42	Peak	---	---
5	4874.00	33.29	54.00	-20.71	28.52	4.77	Average	---	---
6	4874.00	45.91	74.00	-28.09	41.14	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	H



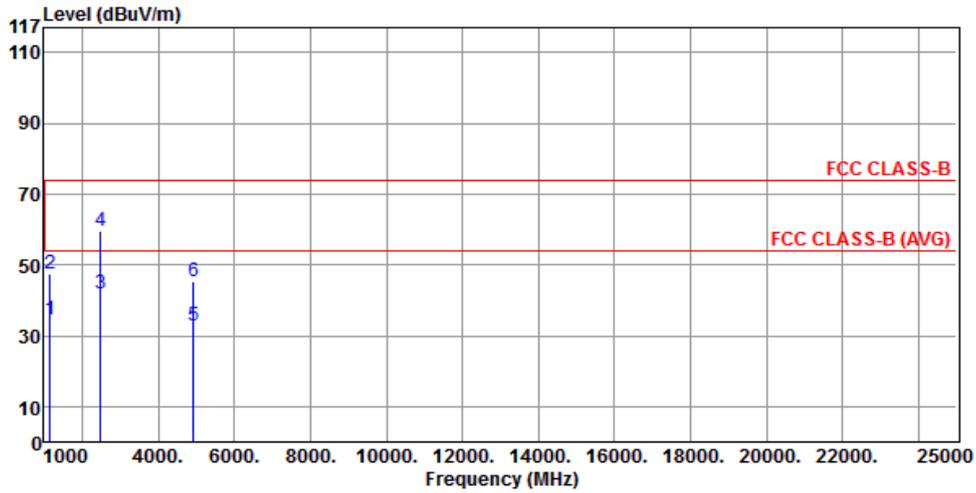
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.33	54.00	-14.67	42.23	-2.90	Average	---	---
2	2390.00	51.44	74.00	-22.56	54.34	-2.90	Peak	---	---
3	2483.50	38.97	54.00	-15.03	41.39	-2.42	Average	---	---
4	2483.50	52.98	74.00	-21.02	55.40	-2.42	Peak	---	---
5	4874.00	31.33	54.00	-22.67	26.56	4.77	Average	---	---
6	4874.00	44.15	74.00	-29.85	39.38	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2462
Operating Mode	1, 1TX	Polarization	V



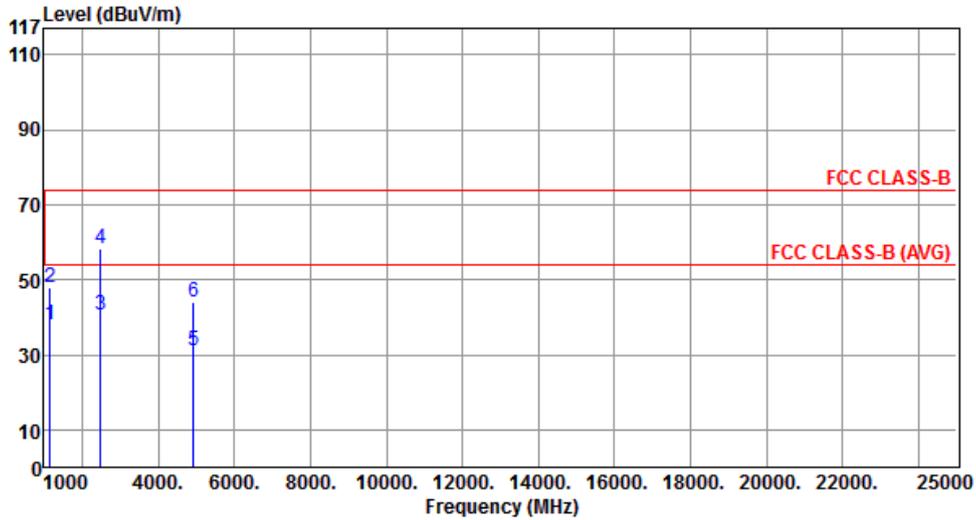
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.73	54.00	-19.27	43.55	-8.82	Average	---	---
2	1160.00	47.51	74.00	-26.49	56.33	-8.82	Peak	---	---
3	2483.50	41.88	54.00	-12.12	44.30	-2.42	Average	---	---
4	2483.50	59.48	74.00	-14.52	61.90	-2.42	Peak	---	---
5	4924.00	33.01	54.00	-20.99	28.15	4.86	Average	---	---
6	4924.00	45.52	74.00	-28.48	40.66	4.86	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2462
Operating Mode	1, 1TX	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.85	54.00	-16.15	46.67	-8.82	Average	---	---
2	1160.00	48.10	74.00	-25.90	56.92	-8.82	Peak	---	---
3	2483.50	40.48	54.00	-13.52	42.90	-2.42	Average	---	---
4	2483.50	58.08	74.00	-15.92	60.50	-2.42	Peak	---	---
5	4924.00	30.88	54.00	-23.12	26.02	4.86	Average	---	---
6	4924.00	43.94	74.00	-30.06	39.08	4.86	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.



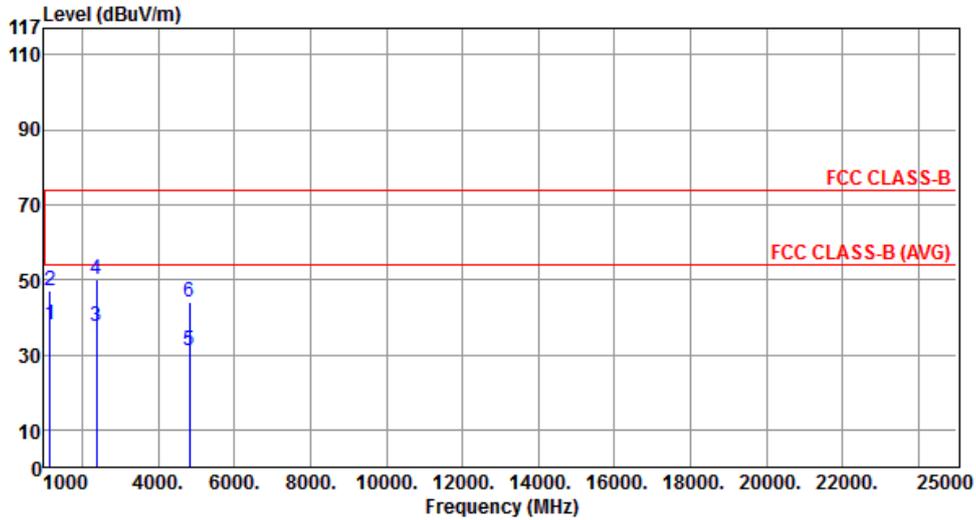
3.6.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-20 (2TX)

Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	2412						
Operating Mode	2, 2TX	Polarization	V						
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1160.00	33.49	54.00	-20.51	42.31	-8.82	Average	---	---
2	1160.00	46.79	74.00	-27.21	55.61	-8.82	Peak	---	---
3	2390.00	39.01	54.00	-14.99	41.91	-2.90	Average	---	---
4	2390.00	52.01	74.00	-21.99	54.91	-2.90	Peak	---	---
5	4824.00	33.43	54.00	-20.57	28.74	4.69	Average	---	---
6	4824.00	45.62	74.00	-28.38	40.93	4.69	Peak	---	---
<p>Note 1: "&gt;20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.</p> <p>Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)</p> <p>Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)</p> <p>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.</p> <p>Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.</p>									



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2412
Operating Mode	2, 2TX	Polarization	H



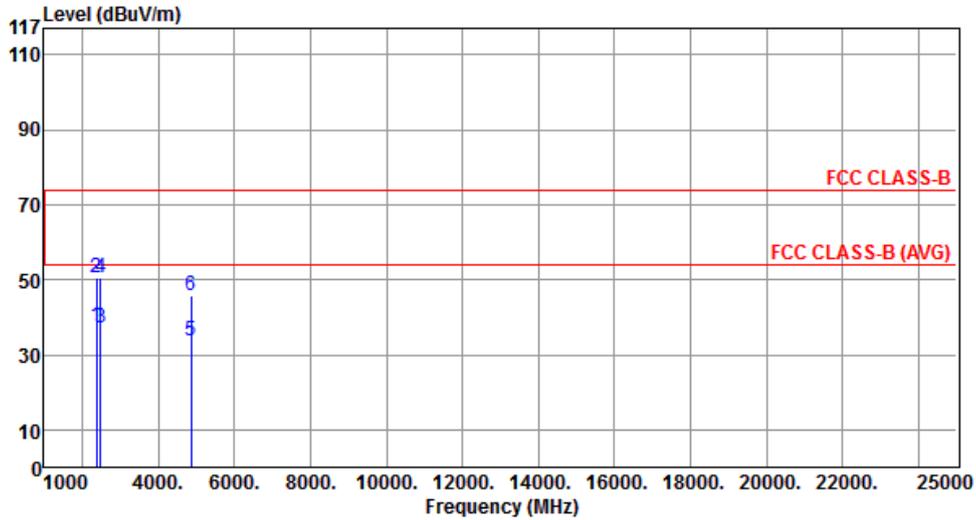
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.79	54.00	-16.21	46.61	-8.82	Average	---	---
2	1160.00	47.19	74.00	-26.81	56.01	-8.82	Peak	---	---
3	2390.00	37.71	54.00	-16.29	40.61	-2.90	Average	---	---
4	2390.00	50.11	74.00	-23.89	53.01	-2.90	Peak	---	---
5	4824.00	31.29	54.00	-22.71	26.60	4.69	Average	---	---
6	4824.00	44.18	74.00	-29.82	39.49	4.69	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2437
Operating Mode	2, 2TX	Polarization	V



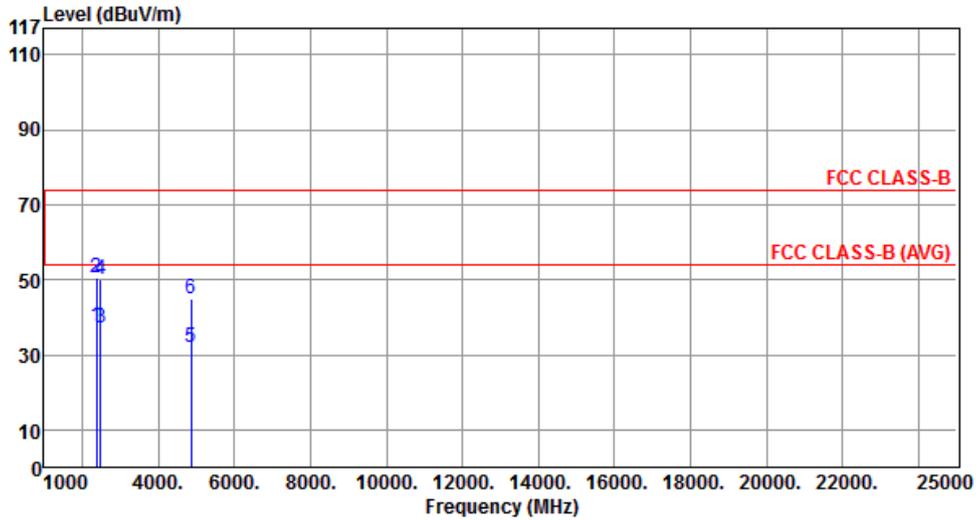
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.51	54.00	-16.49	40.41	-2.90	Average	---	---
2	2390.00	50.71	74.00	-23.29	53.61	-2.90	Peak	---	---
3	2483.50	37.28	54.00	-16.72	39.70	-2.42	Average	---	---
4	2483.50	50.58	74.00	-23.42	53.00	-2.42	Peak	---	---
5	4874.00	33.73	54.00	-20.27	28.96	4.77	Average	---	---
6	4874.00	45.97	74.00	-28.03	41.20	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2437
Operating Mode	2, 2TX	Polarization	H



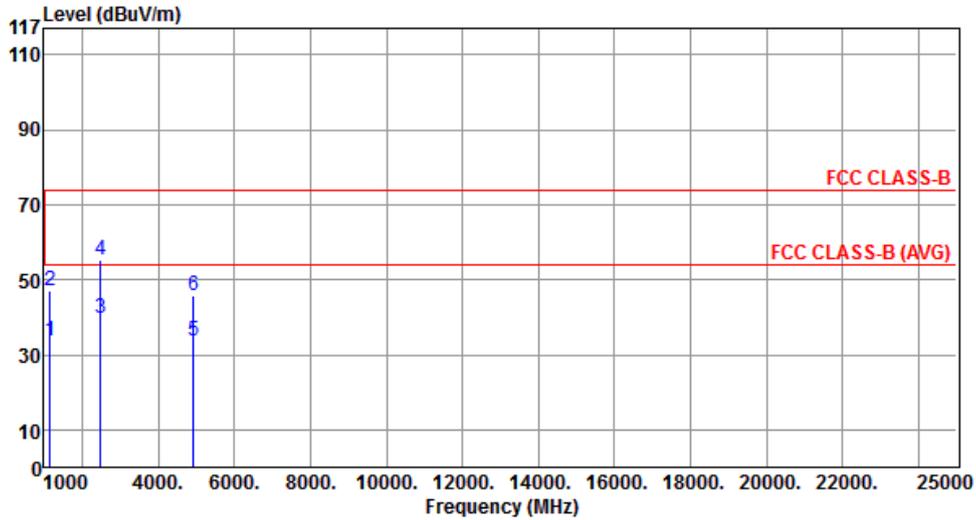
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.41	54.00	-16.59	40.31	-2.90	Average	---	---
2	2390.00	50.71	74.00	-23.29	53.61	-2.90	Peak	---	---
3	2483.50	37.18	54.00	-16.82	39.60	-2.42	Average	---	---
4	2483.50	50.08	74.00	-23.92	52.50	-2.42	Peak	---	---
5	4874.00	32.13	54.00	-21.87	27.36	4.77	Average	---	---
6	4874.00	44.82	74.00	-29.18	40.05	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2462
Operating Mode	2, 2TX	Polarization	V



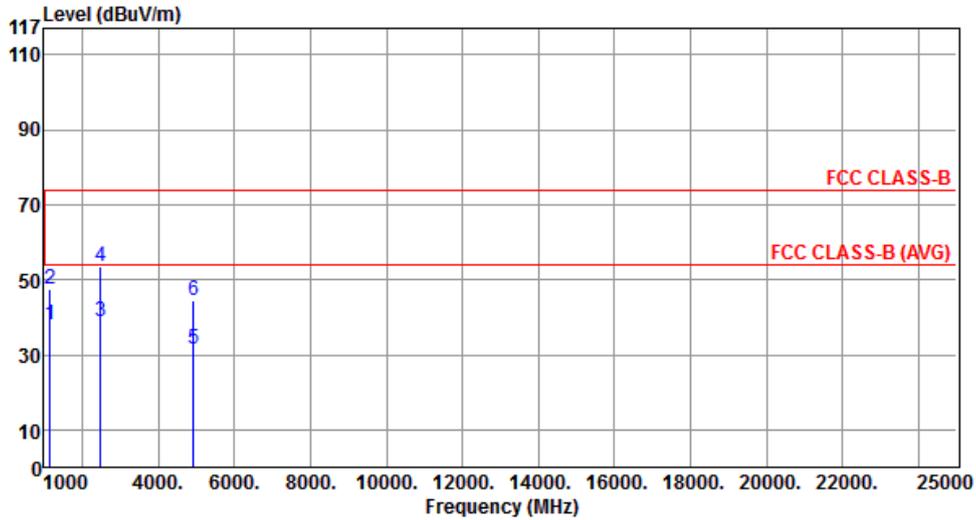
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	33.66	54.00	-20.34	42.48	-8.82	Average	---	---
2	1160.00	47.12	74.00	-26.88	55.94	-8.82	Peak	---	---
3	2483.50	39.88	54.00	-14.12	42.30	-2.42	Average	---	---
4	2483.50	55.08	74.00	-18.92	57.50	-2.42	Peak	---	---
5	4924.00	33.66	54.00	-20.34	28.80	4.86	Average	---	---
6	4924.00	45.83	74.00	-28.17	40.97	4.86	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2462
Operating Mode	2, 2TX	Polarization	H



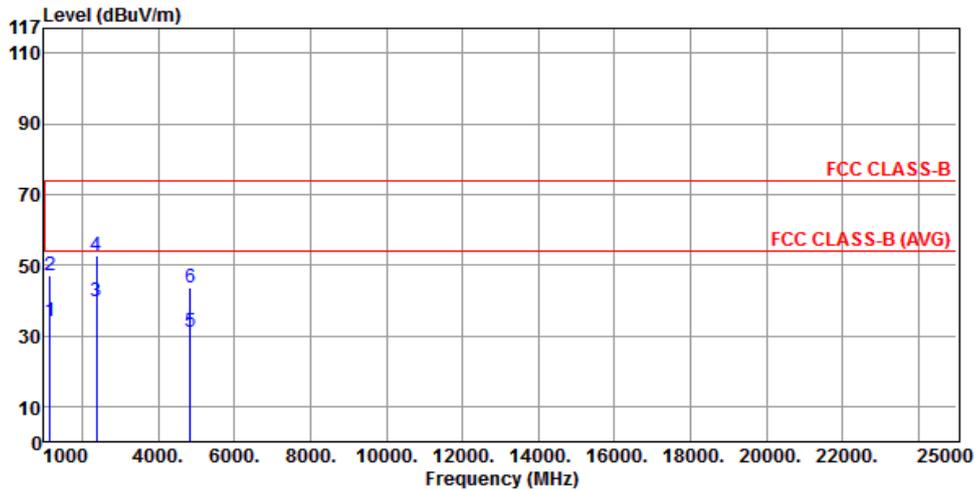
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.96	54.00	-16.04	46.78	-8.82	Average	---	---
2	1160.00	47.52	74.00	-26.48	56.34	-8.82	Peak	---	---
3	2483.50	38.78	54.00	-15.22	41.20	-2.42	Average	---	---
4	2483.50	53.38	74.00	-20.62	55.80	-2.42	Peak	---	---
5	4924.00	31.46	54.00	-22.54	26.60	4.86	Average	---	---
6	4924.00	44.39	74.00	-29.61	39.53	4.86	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.



3.6.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-40 (1TX)

Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	Test Freq. (MHz)	2422
Operating Mode	1, 1TX	Polarization	V



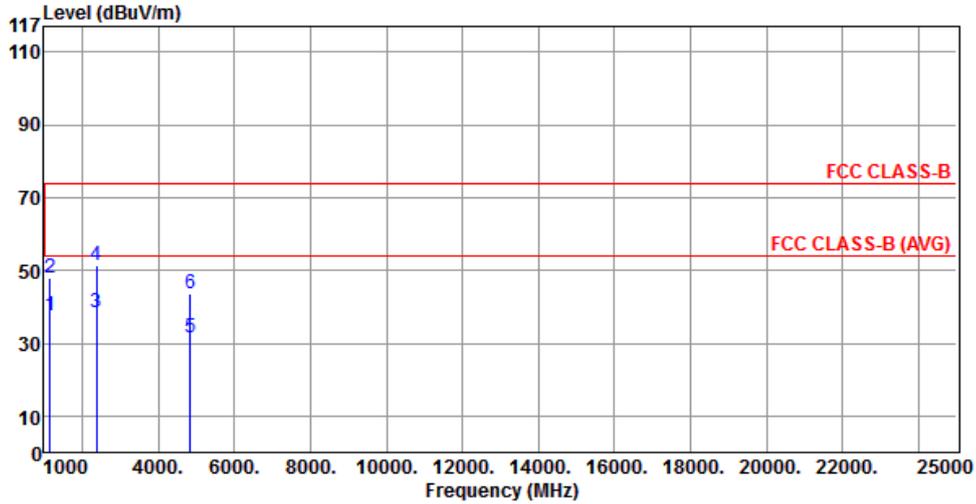
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.29	54.00	-19.71	43.11	-8.82	Average	---	---
2	1160.00	47.20	74.00	-26.80	56.02	-8.82	Peak	---	---
3	2390.00	39.84	54.00	-14.16	42.74	-2.90	Average	---	---
4	2390.00	52.71	74.00	-21.29	55.61	-2.90	Peak	---	---
5	4844.00	30.94	54.00	-23.06	26.23	4.71	Average	---	---
6	4844.00	43.73	74.00	-30.27	39.02	4.71	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2422
Operating Mode	1, 1TX	Polarization	H



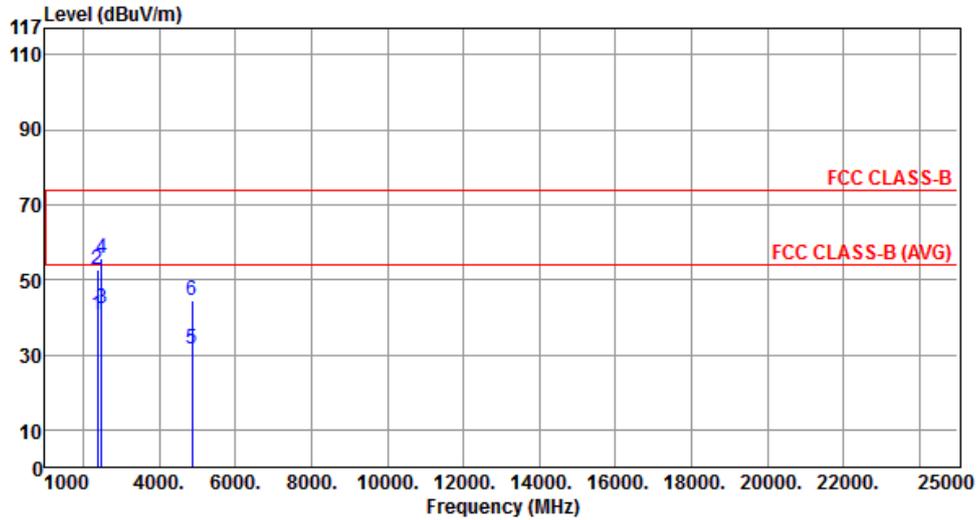
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.66	54.00	-16.34	46.48	-8.82	Average	---	---
2	1160.00	47.82	74.00	-26.18	56.64	-8.82	Peak	---	---
3	2390.00	38.51	54.00	-15.49	41.41	-2.90	Average	---	---
4	2390.00	51.41	74.00	-22.59	54.31	-2.90	Peak	---	---
5	4844.00	31.41	54.00	-22.59	26.70	4.71	Average	---	---
6	4844.00	43.75	74.00	-30.25	39.04	4.71	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	V

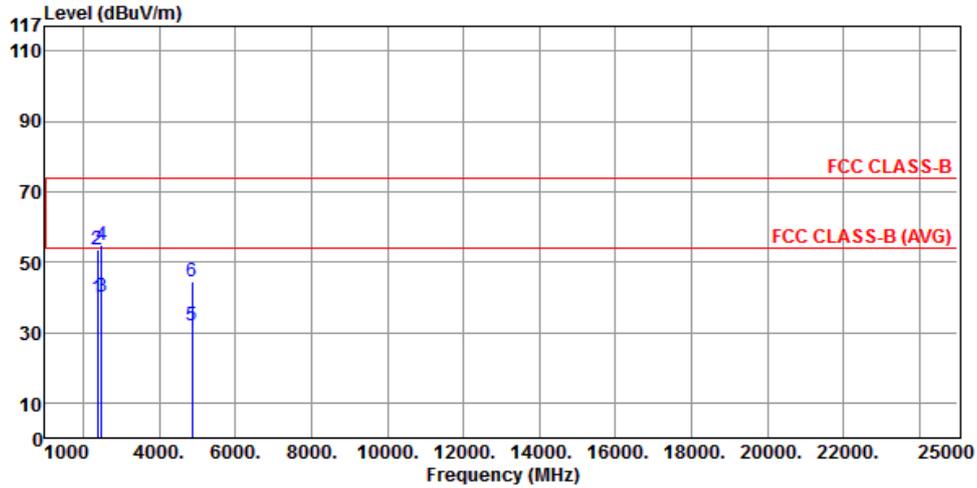


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	40.61	54.00	-13.39	43.51	-2.90	Average	---	---
2	2390.00	52.61	74.00	-21.39	55.51	-2.90	Peak	---	---
3	2483.50	42.38	54.00	-11.62	44.80	-2.42	Average	---	---
4	2483.50	55.88	74.00	-18.12	58.30	-2.42	Peak	---	---
5	4874.00	31.57	54.00	-22.43	26.80	4.77	Average	---	---
6	4874.00	44.27	74.00	-29.73	39.50	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	Test Freq. (MHz)	2437
Operating Mode	1, 1TX	Polarization	H



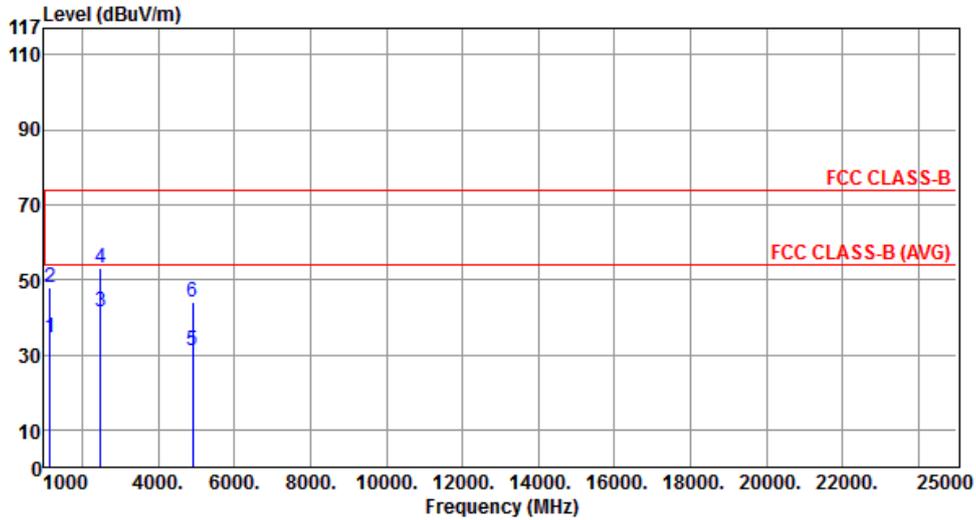
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.71	54.00	-14.29	42.61	-2.90	Average	---	---
2	2390.00	53.41	74.00	-20.59	56.31	-2.90	Peak	---	---
3	2483.50	40.18	54.00	-13.82	42.60	-2.42	Average	---	---
4	2483.50	54.68	74.00	-19.32	57.10	-2.42	Peak	---	---
5	4874.00	31.87	54.00	-22.13	27.10	4.77	Average	---	---
6	4874.00	44.37	74.00	-29.63	39.60	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2452
Operating Mode	1, 1TX	Polarization	V



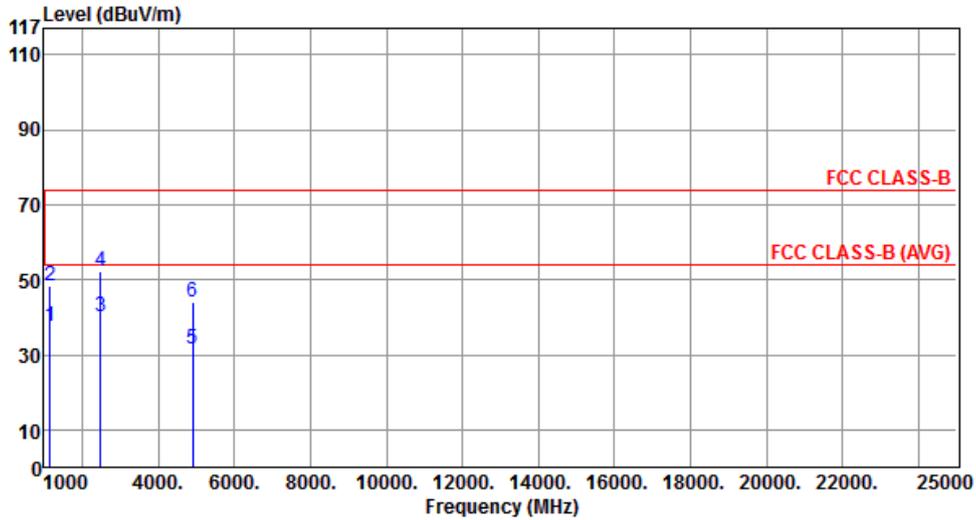
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.46	54.00	-19.54	43.28	-8.82	Average	---	---
2	1160.00	47.88	74.00	-26.12	56.70	-8.82	Peak	---	---
3	2483.50	41.38	54.00	-12.62	43.80	-2.42	Average	---	---
4	2483.50	53.08	74.00	-20.92	55.50	-2.42	Peak	---	---
5	4904.00	31.23	54.00	-22.77	26.41	4.82	Average	---	---
6	4904.00	44.05	74.00	-29.95	39.23	4.82	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2452
Operating Mode	1, 1TX	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.58	54.00	-16.42	46.40	-8.82	Average	---	---
2	1160.00	48.39	74.00	-25.61	57.21	-8.82	Peak	---	---
3	2483.50	40.08	54.00	-13.92	42.50	-2.42	Average	---	---
4	2483.50	52.08	74.00	-21.92	54.50	-2.42	Peak	---	---
5	4904.00	31.58	54.00	-22.42	26.76	4.82	Average	---	---
6	4904.00	44.18	74.00	-29.82	39.36	4.82	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.



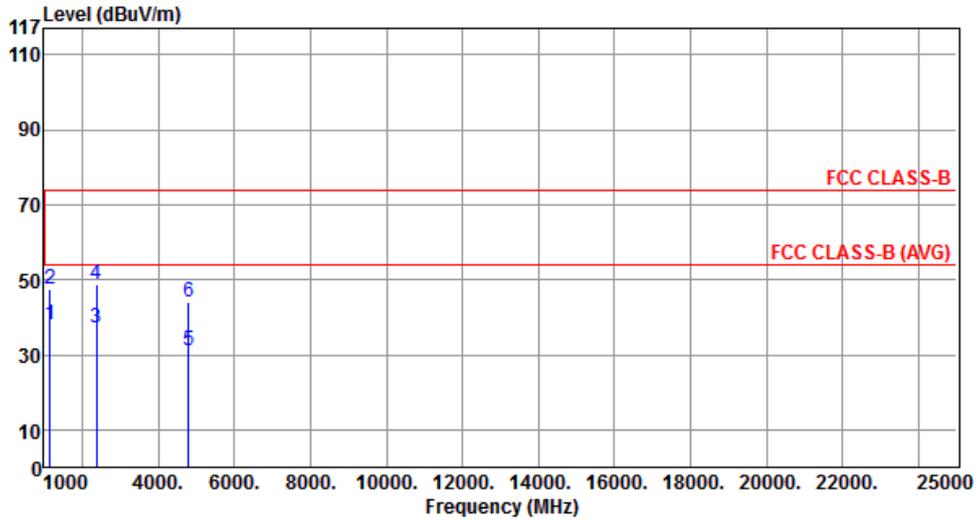
3.6.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-40 (2TX)

Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT40			Test Freq. (MHz)	2422				
Operating Mode	2, 2TX			Polarization	V				
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1160.00	33.69	54.00	-20.31	42.51	-8.82	Average	---	---
2	1160.00	46.92	74.00	-27.08	55.74	-8.82	Peak	---	---
3	2390.00	37.71	54.00	-16.29	40.61	-2.90	Average	---	---
4	2390.00	49.61	74.00	-24.39	52.51	-2.90	Peak	---	---
5	4804.00	33.15	54.00	-20.85	28.50	4.65	Average	---	---
6	4804.00	45.28	74.00	-28.72	40.63	4.65	Peak	---	---
<p>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)            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.</p>									



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2422
Operating Mode	2, 2TX	Polarization	H

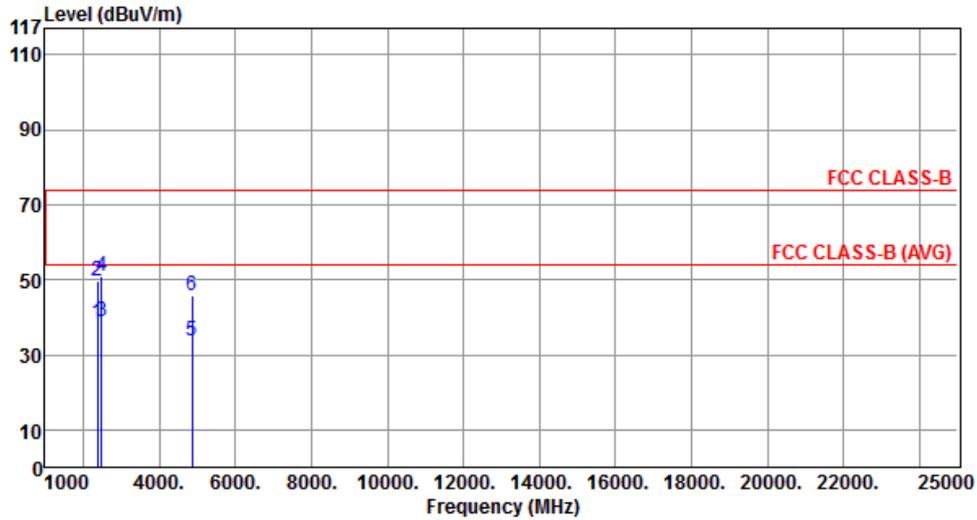


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	37.92	54.00	-16.08	46.74	-8.82	Average	---	---
2	1160.00	47.62	74.00	-26.38	56.44	-8.82	Peak	---	---
3	2390.00	37.31	54.00	-16.69	40.21	-2.90	Average	---	---
4	2390.00	48.71	74.00	-25.29	51.61	-2.90	Peak	---	---
5	4804.00	31.02	54.00	-22.98	26.37	4.65	Average	---	---
6	4804.00	43.98	74.00	-30.02	39.33	4.65	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)			
Modulation Mode	HT40	Test Freq. (MHz)	2437
Operating Mode	2, 2TX	Polarization	V



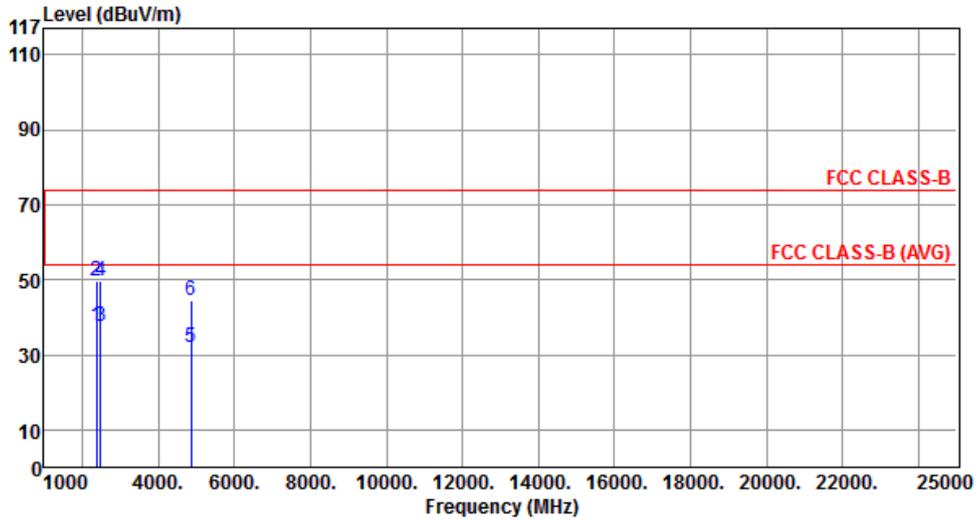
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	38.31	54.00	-15.69	41.21	-2.90	Average	---	---
2	2390.00	49.61	74.00	-24.39	52.51	-2.90	Peak	---	---
3	2483.50	38.78	54.00	-15.22	41.20	-2.42	Average	---	---
4	2483.50	50.78	74.00	-23.22	53.20	-2.42	Peak	---	---
5	4874.00	33.58	54.00	-20.42	28.81	4.77	Average	---	---
6	4874.00	45.67	74.00	-28.33	40.90	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2437
Operating Mode	2, 2TX	Polarization	H



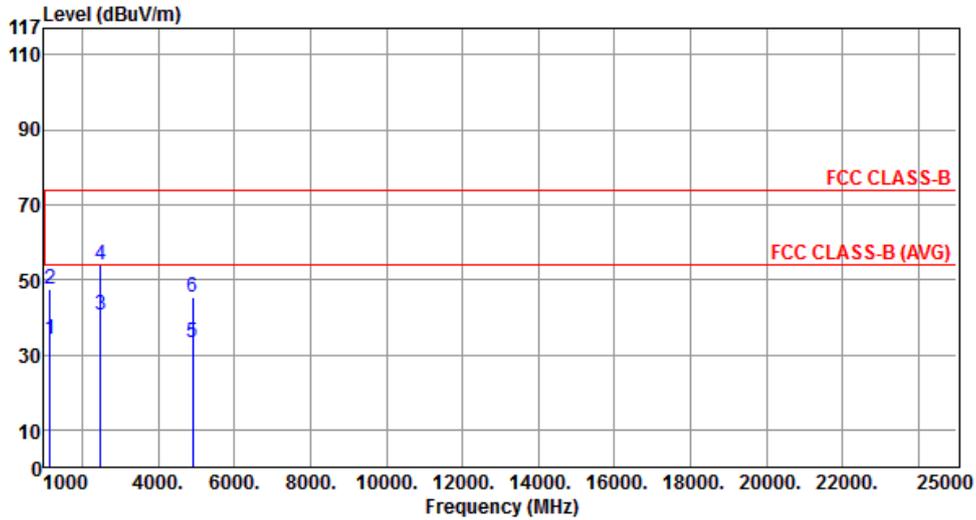
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	37.61	54.00	-16.39	40.51	-2.90	Average	---	---
2	2390.00	49.51	74.00	-24.49	52.41	-2.90	Peak	---	---
3	2483.50	37.68	54.00	-16.32	40.10	-2.42	Average	---	---
4	2483.50	49.48	74.00	-24.52	51.90	-2.42	Peak	---	---
5	4874.00	31.96	54.00	-22.04	27.19	4.77	Average	---	---
6	4874.00	44.58	74.00	-29.42	39.81	4.77	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2452
Operating Mode	2, 2TX	Polarization	V



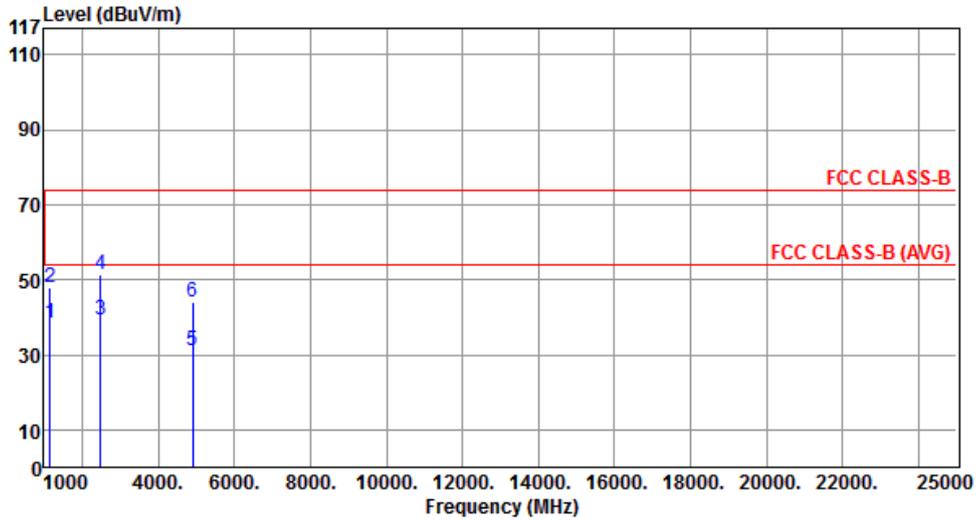
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	34.13	54.00	-19.87	42.95	-8.82	Average	---	---
2	1160.00	47.59	74.00	-26.41	56.41	-8.82	Peak	---	---
3	2483.50	40.38	54.00	-13.62	42.80	-2.42	Average	---	---
4	2483.50	53.88	74.00	-20.12	56.30	-2.42	Peak	---	---
5	4904.00	33.42	54.00	-20.58	28.60	4.82	Average	---	---
6	4904.00	45.50	74.00	-28.50	40.68	4.82	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.



Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2452
Operating Mode	2, 2TX	Polarization	H



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1160.00	38.22	54.00	-15.78	47.04	-8.82	Average	---	---
2	1160.00	47.89	74.00	-26.11	56.71	-8.82	Peak	---	---
3	2483.50	39.38	54.00	-14.62	41.80	-2.42	Average	---	---
4	2483.50	51.18	74.00	-22.82	53.60	-2.42	Peak	---	---
5	4904.00	31.15	54.00	-22.85	26.33	4.82	Average	---	---
6	4904.00	44.03	74.00	-29.97	39.21	4.82	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.



## 4 Test Equipment and Calibration Data

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 4 / (CO04-HY)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
EMC Receiver	R&S	ESCS 30	100174	Mar. 26, 2013	Mar. 25, 2014
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	Jan. 21, 2013	Jan. 20, 2014
RF Cable-CON	HUBER+SUHNER	RG213/U	7.61183201e+012	Nov. 09, 2012	Nov. 08, 2013
EMI Filter	LINDGREN	LRE-2030	2651	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	Radiated Emission below 1GHz				
<b>Test Site</b>	966 chamber 2 / (03CH03-HY)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	Dec. 01, 2012	Nov. 30, 2013
Amplifier	HP	8447D	2944A08033	May 03, 2013	May 02, 2014
Spectrum	R&S	FSP30	100023	Jul. 20, 2013	Jul. 19, 2014
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	Sep. 21, 2013	Sep. 20, 2014
RF Cable-R03m	Jye Bao	RG142	CB021	Jan. 17, 2013	Jan. 16, 2014
Turn Table	EM Electronics	EM Electronics	060615	N/A	N/A
Antenna Mast	MF	MF-7802	MF780208179	N/A	N/A
Loop Antenna	TESEQ	HLA 6120	31244	Dec. 02, 2012	Dec. 01, 2013
Note: Calibration Interval of instruments listed above is one year.					



<b>Test Item</b>	Radiated Emission above 1GHz				
<b>Test Site</b>	966 chamber 2 / (03CH02-WS)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH02-WS	Jan. 02, 2013	Jan. 01, 2014
Spectrum Analyzer	R&S	FSV40	101499	Jan. 28, 2013	Jan. 27, 2014
Receiver	R&S	ESR3	101657	Jan. 30,2013	Jan. 29, 2014
Bilog Antenna	Schwarzbeck	VULB9168	VULB9168-524	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1095	Jan. 29, 2013	Jan. 28,2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100218	Dec. 14, 2012	Dec. 13, 2013
Amplifier	Agilent	83017A	MY39501309	Dec. 18, 2012	Dec. 17, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-003	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-004	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	060608	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015
Note: Calibration Interval of instruments listed above is two year.					

<b>Test Item</b>	RF Conducted				
<b>Test Site</b>	TH01-HY				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014
Spectrum Analyzer	R&S	FSP 40	100305	Mar. 20, 2013	Mar. 19, 2014
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	Nov. 21, 2012	Nov. 20, 2013
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 14, 2014
Power Sensor	Anritsu	MA2411B	0917017	Feb. 02, 2013	Feb. 01, 2014
Power Meter	Anritsu	ML2495A	0949003	Feb. 02, 2013	Feb. 01, 2014
Note: Calibration Interval of instruments listed above is one year.					