

Equipment : Wireless Network HD Camera

Brand Name : Sercomm, AT&T, iControl, MiOS

Model No. : RC8110xxxxxxxx

(The "x" in model name can be 0 to 9, A to Z, blank or "-",

for marking purpose), WCW200NX

FCC ID : P27RC8110

Standard : 47 CFR FCC Part 15.247

Operating Band : 2400 MHz – 2483.5 MHz

FCC Classification : DTS

Applicant : Sercomm Corporation

Manufacturer 8F, No. 3-1, YuanQu St., NanKang, Taipei 115,

Taiwan, R.O.C.

The product sample received on May 23, 2014 and completely tested on Jun. 11, 2014. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

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

Reviewed by:

Wayne Hsu V Assistant Manager

esting Laboratory

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APPENDIX A. TEST PHOTOS

APPENDIX B. PHOTOGRAPHS OF EUT

Summary of Test Result

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	Conformance Test Specifications								
Report Clause	FCC Std. Clause	Description	Measured	FCC 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]: 3.040 MHz 28.67 (Margin 17.33dB) - AV 43.76 (Margin 12.24dB) - QP	FCC 15.207	Complied				
3.2	15.247 (a)	Bandwidth	6dB Bandwidth Unit [MHz] 20M: 9.75 / 40M: 36.44	≥500kHz	Complied				
3.3	15.247 (b)	RF Output Power (Maximum Peak Conducted Output Power Result)	Power [dBm]: 23.53	Power [dBm]:30	Complied				
3.4	15.247 (d)	Power Spectral Density	PSD [dBm/100kHz]: -10.99	PSD [dBm/3kHz]:8	Complied				
3.5	15.247 (c)	Transmitter adiated Bandedge Emissions	Non-Restricted Bands: 2399.10MHz: 28.39dB Restricted Bands [dBuV/m at 3m]: 2483.72MHz 68.72 (Margin 5.28dB) - PK 52.98 (Margin 1.02dB) - AV	Non-Restricted Bands: > 20 dBc Restricted ands: FCC 15.209	Complied				
3.6	15.247 (c)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 4924MHz 52.83 (Margin 1.17dB) - AV 55.05 (Margin 18.95dB) - PK	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied				

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Revision History

Report No. : FR452210

Rev.01	Initial issue of report	
	miliai issue di Teport	Jul. 09, 2014

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General Description 1

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 _{TX})	RF Output Power (dBm)				
2400-2483.5	b	2412-2462	1-11 [11]	1	19.19				
2400-2483.5	g	2412-2462	1-11 [11]	1	21.09				
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	21.57				
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	23.53				
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	21.36				
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	23.04				

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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
	Equipment placed on the market without antennas
\boxtimes	Integral antenna (antenna permanently attached)
	☐ Temporary RF connector provided
	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.

Antenna General Information							
Antenna No. Ant. Cat. Ant. Type Gain (dBi)							
1	Integral	PCB	3.90				
2	Integral	PCB	4.90				

Note 1: In theory IEEE 802.11b/g/n only Antenna 1 for single chain was test in this report. Note 2: The EUT has CDD function

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1.1.3 Type of EUT

	Identify EUT					
EU	Γ Serial Number	N/A				
Pre	sentation of Equipment		n; 🔲 Pr	e-Production; Prototype)	
			Туре	of EUT		
\boxtimes	Stand-alone					
	Combined (EUT where	e the radio part is	fully integ	grated within another device)		
	Combined Equipment	- Brand Name / M	lodel No.:	:		
	Plug-in radio (EUT inte	ended for a variety	of host s	systems)		
	Host System - Brand N	Name / Model No.	:			
	Other:					
1.1.	4 Test Signal Du	ty Cycle				
		Operated	Mode fo	r Worst Duty Cycle		
	Operated normally mo	de for worst duty	cycle			
\boxtimes	Operated test mode for	or worst duty cycle)			
	Test Signal Duty	Cycle (x)	N _{TX}	Power Du [dB] – (10		
\boxtimes	100.00% - IEEE 802.1	1b	1	0		
\boxtimes	100.00% - IEEE 802.1	1g	1	0		
\boxtimes	100.00% - IEEE 802.1	1n (HT20)	1	0		
\boxtimes	100.00% - IEEE 802.1	1n (HT20)	2	0		
\boxtimes	100.00% - IEEE 802.1	1n (HT40)	1	0		
\boxtimes	100.00% - IEEE 802.1	1n (HT40)	2	0		
1.1.	1.1.5 EUT Operational Condition					
Sup	ply Voltage			☐ DC	System	
Tvp	e of DC Source	☐ Internal DC	supply	External DC adapter	□ Battery	

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1.2 Accessories and Support Equipment

Accessories Information						
	Brand Name	DVE	Model Name	DSA-12G-12 FUS 120120		
AC Adapter 1	Power Rating	I/P: 100-240V ~	50/60Hz 0.3A ;C	D/P: 12V===1A		
	Power Cord	1.5 meter, non-	-shielded cable, w	ithout ferrite core		
	Brand Name	SUNNY	Model Name	SYS1381-1212-W2		
AC Adapter 2	Power Rating	I/P: 100-240V ~	50/60Hz 0.5A ;C	D/P: 12V===1A		
	Power Cord	1.35 meter, no	n-shielded cable, v	without ferrite core		
	Brand Name	APD	Model Name	WA-12M12FU		
AC Adapter 3	Power Rating	I/P: 100-240V ~	50/60Hz 0.5A ;C	D/P: 12V===1A		
	Power Cord	1.5 meter, non-	shielded cable, wi	thout ferrite core		

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

	Support Equipment- Conduction and Radiated						
No.	No. Equipment Brand Name Model Name						
1	Notebook	DELL	E5520				

1.3 Testing Applied Standards

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

- NCC LP0002 (2011-06-28)
- ANSI C63.10-2009
- FCC KDB 558074
- FCC KDB 662911

1.4 Testing Location Information

	Testing Location						
\boxtimes	HWA YA	ADD	:	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.			
	TEL: 886-3-327-3456 FAX: 886-3-327-0973						
Test Condition		Test Site No.	Test Engineer	Test Environment			
AC Conduction		CO04-HY	Zeus	24.6°C / 53%			
RF Conducted		TH06-HY	Cain	23.2°C / 63.6%			
F	Radiated Em	ission		03CH03-HY	Leo	24.6°C / 53%	

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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)

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Measurement Uncertainty						
Test Item		Uncertainty				
AC power-line conducted emissions		±2.3 dB				
Emission bandwidth, 6dB bandwidth		±1.4 %				
RF output power, conducted		±0.6 dB				
Power density, conducted		±0.8 dB				
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB				
	0.15 – 30 MHz	±0.4 dB				
	30 – 1000 MHz	±0.5 dB				
	1 – 18 GHz	±0.7 dB				
	18 – 40 GHz	±0.8 dB				
	40 – 200 GHz	N/A				
All emissions, radiated	9 – 150 kHz	±2.5 dB				
	0.15 – 30 MHz	±2.3 dB				
	30 – 1000 MHz	±2.6 dB				
	1 – 18 GHz	±3.6 dB				
	18 – 40 GHz	±3.8 dB				
	40 – 200 GHz	N/A				
Temperature		±0.8 °C				
Humidity		±3 %				
DC and low frequency voltages		±3 %				
Time		±1.4 %				
Duty Cycle		±1.4 %				

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2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing							
Modulation Mode Transmit Chains (N _{TX}) Data Rate / MCS Worst Data Rate							
11b	1	1-11 Mbps	1 Mbps				
11g	1	6-54 Mbps	6 Mbps				
HT20	1	M0-7	MCS 0				
HT20	2	M0-15	MCS 0				
HT40	1	M0-7	MCS 0				
HT40	2	M0-15	MCS 0				

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2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter							
Test Software Version		MT7620 QA_ V1.0.6.0					
		Test Frequency (MHz)					
Modulation Mode	N _{TX}	NCB: 20MHz			NCB: 40MHz		
		2412	2437	2462	2422	2437	2452
11b	1	0F	0F	0F	-	-	-
11g	1	0E	0E	0E	-	-	-
HT20	1	0E	0F	0F	-	-	-
HT20	2	0C;0A	0F;0D	0F;0C	-	-	-
HT40	1	-	-	-	0C	0F	0D
HT40	2	-	-	-	06;05	0F;0D	08;05

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2.3 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			
1 AC Power (adaptor 1) & Radio Transmit			
2	AC Power (adaptor 2) & Radio Transmit		
3 AC Power (adaptor 3) & Radio Transmit			
or operating mode 2 is the worst case and it was record in this test report.			

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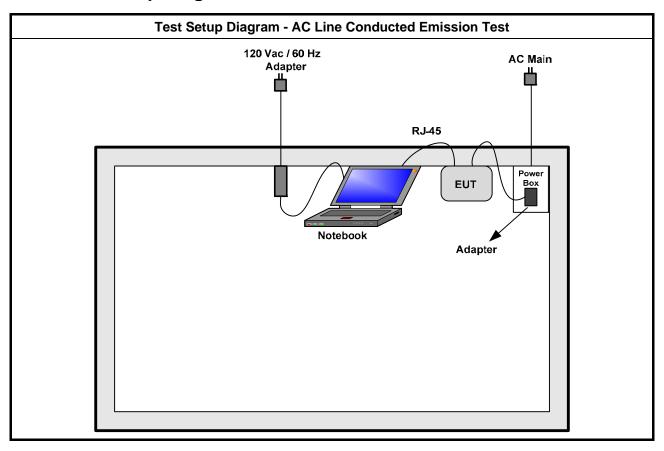
The Worst Case Mode for Following Conformance Tests			
Tests Item RF Output Power, Power Spectral Density, 6 dB Bandwidth			
Test Condition	Conducted measurement at transmit chains		
Modulation Mode 11b, 11g, HT20, HT40			

Th	The Worst Case Mode for Following Conformance Tests				
Tests Item	Transmitter Radiated Unwanted Emissions Transmitter Radiated Bandedge Emissions				
Test Condition	Radiated measurement				
	☐ EUT will be placed in	fixed position			
User Position	EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes. The worst planes is Y				
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.				
	1. AC Power (adaptor 1) & Radio Transmit				
Omenation Made	2. AC Power (adaptor 2) & Radio Transmit				
Operating Mode	3. AC Power (adaptor 3) & Radio Transmit				
	For operating mode 2 is the worst case and it was record in this test report.				
Modulation Mode	11b, 11g, HT20, HT40				
	X Plane	Y Plane	Z Plane		
Orthogonal Planes of EUT					

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2.4 Test Setup Diagram



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Test Setup Diagram - Radiated Below 1GHz Test 120 Vac / 60 Hz AC Main Adapter RJ-45 EUT Notebook Adapter Test Setup Diagram - Radiated Above 1GHz Test 120 Vac / 60 Hz AC Main Adapter

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EUT

RJ-45

Notebook

Adapter



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			

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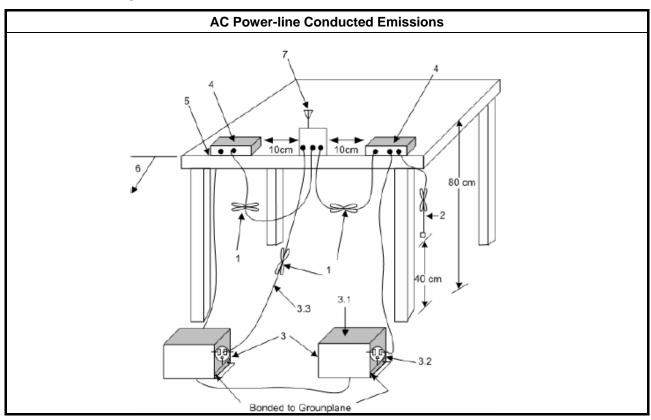
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

	Test Method
\boxtimes	Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



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Test Result of AC Power-line Conducted Emissions

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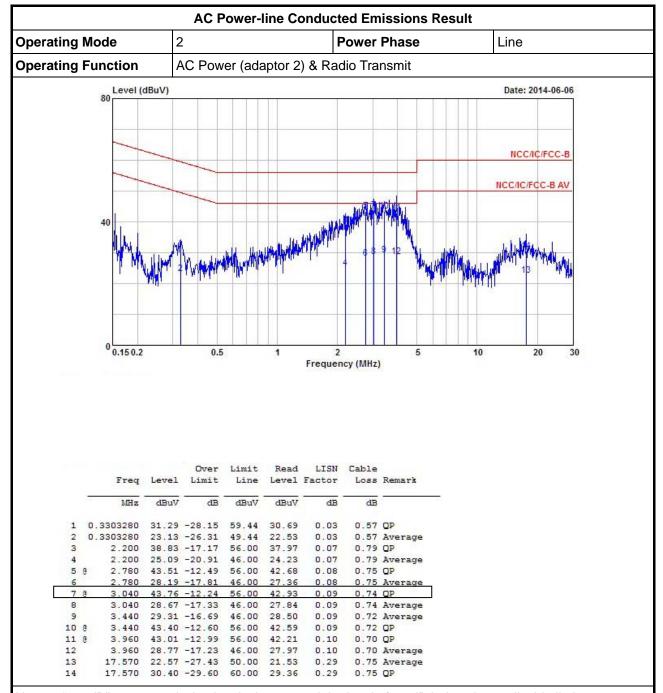
AC Power-line Conducted Emissions Result Operating Mode 2 **Power Phase** Neutral **Operating Function** AC Power (adaptor 2) & Radio Transmit Level (dBuV) Date: 2014-06-06 NCC/IC/FCC-B NCC/IC/FCC-B AV 0.15 0.2 0.5 20 30 Frequency (MHz) Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 0.3251190 38.39 -21.18 59.57 37.79 0.03 0.57 QP 0.3251190 28.30 -21.27 49.57 27.70 0.03 0.57 Average 3 0.5435530 28.11 -27.89 56.00 27.40 0.04 0.67 QP 0.5435530 20.12 -25.88 46.00 19.41 0.04 0.67 Average 2.090 18.44 -27.56 46.00 17.59 0.06 0.79 Average 2.090 28.19 -27.81 56.00 27.34 0.06 0.79 QP 2.680 30.74 -25.26 56.00 29.91 0.07 2.680 21.85 -24.15 46.00 21.02 0.76 Average 0.07 3.600 24.69 -21.31 46.00 23.88 0.09 0.72 Average 3.600 35.20 -20.80 56.00 34.39 10 0.09 0.72 QP 4.200 36.96 -19.04 56.00 36.15 11 0.10 0.71 QP 4.200 25.24 -20.76 46.00 24.43 0.10 0.71 Average 17.290 27.70 -32.30 60.00 26.66 0.29 0.75 QP 13 17.290 20.70 -29.30 50.00 19.66 0.29 0.75 Average

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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.)

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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.)

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3.2 6dB Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit			
Systems using digital modulation techniques:			
6 dB bandwidth ≥ 500 kHz.			

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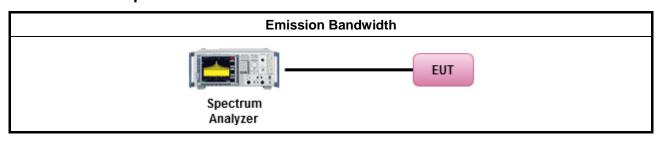
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



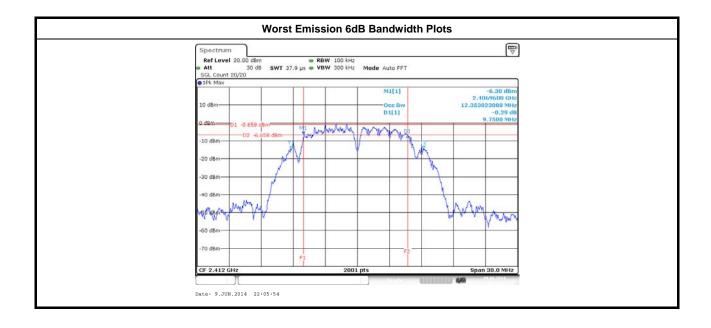
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3.2.5 Test Result of Emission Bandwidth

Condit	ion		Emission Bandwidth Result Emission Bandwidth (MHz)				
			99% Ba	ndwidth	6dB Bandwidth		
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 1	Chain Port 2	
11b	1	2412	12.35	-	9.75	-	
11b	1	2437	12.32	-	10.05	-	
11b	1	2462	12.36	-	9.90	-	
11g	1	2412	16.49	-	16.54	-	
11g	1	2437	16.47	-	16.56	-	
11g	1	2462	16.53	-	16.59	-	
HT20	1	2412	17.61	-	17.73	-	
HT20	1	2437	17.57	-	17.62	-	
HT20	1	2462	17.61	-	17.65	-	
HT20	2	2412	17.55	17.64	17.64	17.77	
HT20	2	2437	17.60	17.60	17.62	17.77	
HT20	2	2462	17.61	17.61	17.71	17.73	
HT40	1	2422	36.22	-	36.48	-	
HT40	1	2437	36.22	-	36.48	-	
HT40	1	2452	36.22	-	36.52	-	
HT40	2	2422	36.26	36.26	36.52	36.44	
HT40	2	2437	36.26	36.26	36.48	36.56	
HT40	2	2452	36.26	36.22	36.56	36.48	
Limi	it		N	/A	≥500	kHz	
Resu	ılt		Complied				

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3.3 RF Output Power

3.3.1 RF Output Power Limit

	RF Output Power Limit					
Мах	imu	m Peak Conducted Output Power or Maximum Conducted Output Power Limit				
\boxtimes	240	0-2483.5 MHz Band:				
	\boxtimes	If $G_{TX} \le 6$ dBi, then $P_{Out} \le 30$ dBm (1 W)				
	\boxtimes	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm				
		Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm				
		Smart antenna system (SAS):				
		Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm				
		Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm				
		Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm				
e.i.r	.p. P	ower Limit:				
\boxtimes	240	0-2483.5 MHz Band				
	\boxtimes	Point-to-multipoint systems (P2M): P _{eirp} ≤ 36 dBm (4 W)				
		Point-to-point systems (P2P): $P_{eirp} \le MAX(36, [P_{Out} + G_{TX}]) dBm$				
		Smart antenna system (SAS)				
		☐ Single beam: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$				
		Overlap beam: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$				
		☐ Aggregate power on all beams: $P_{eirp} \le MAX(36, [P_{Out} + G_{TX} + 8]) dBm$				
\mathbf{G}_{TX}	Pout = maximum peak conducted output power or maximum conducted output power in dBm, STX = the maximum transmitting antenna directional gain in dBi. Peirp = e.i.r.p. Power in dBm.					

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3.3.2 Measuring Instruments

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

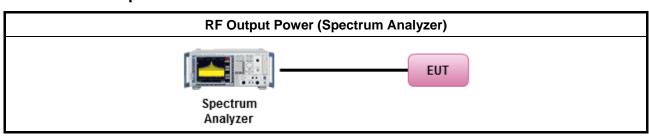
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3.3.3 Test Procedures

		Test Method
\boxtimes	Max	imum Peak Conducted Output Power
		Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
	\boxtimes	Refer as FCC KDB 558074, clause 9.1.3 Option 2 (peak power meter for VBW ≥ DTS BW)
\boxtimes	Max	rimum Conducted Output Power
	[dut	y cycle ≥ 98% or external video / power trigger]
	\boxtimes	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
		Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
	duty	cycle < 98% and average over on/off periods with duty factor
		Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
		Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
	RF	power meter and average over on/off periods with duty factor or gated trigger
		Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).
\boxtimes	For	conducted measurement.
		The EUT supports single transmit chain and measurements performed on this transmit chain. The chain is port 1.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		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.
		If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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3.3.4 Test Setup



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3.3.5 Directional Gain for Power Measurement

Directional Gain (DG) Result					
Transmit Chains No.	1	2	-		
Maximum G _{ANT} (dBi)	3.90	4.90	-		
Modulation Mode	N _{TX}	N _{ss} (Min.)	Power DG (dBi) Note ⁴		
11b	1	1	3.90		
11g	1	1	3.90		
HT20	1	1	3.90		
HT20	2	1/2	4.43		
HT40	1	1	3.90		
HT40	2	1/2	4.43		

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- Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = G_{ANT} + 10 log(N_{TX})

 All transmit signals are completely uncorrelated, Directional Gain = G_{ANT}
- Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = 10 log[(10^{G1/20} +... + 10^{GN/20})² /N_{TX}] All transmit signals are completely uncorrelated, Directional Gain = 10 log[(10^{G1/10} +... + 10^{GN/10)}/N_{TX}]
- Note 3: For Spatial Multiplexing, Directional Gain (DG) = G_{ANT} + 10 log(N_{TX}/N_{SS}), where Nss = the number of independent spatial streams data.
- Note 4: For CDD transmissions, directional gain is calculated as power measurements: Directional Gain (DG) = G_{ANT} + Array Gain, where Array Gain is as follows: Array Gain = 0 dB (i.e., no array gain) for $N_{TX} \le 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{TX}.

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3.3.6 Test Result of Maximum Peak Conducted Output Power

		M	laximum Pea	k Conducted	d Output Pov	ver Result	·		·
Condi	tion				RF O	utput Power	(dBm)		
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11b	1	2412	19.19	-	19.19	30.00	3.90	23.09	36.00
11b	1	2437	19.12	-	19.12	30.00	3.90	23.02	36.00
11b	1	2462	19.09	-	19.09	30.00	3.90	22.99	36.00
11g	1	2412	21.04	-	21.04	30.00	3.90	24.94	36.00
11g	1	2437	20.95	-	20.95	30.00	3.90	24.85	36.00
11g	1	2462	21.09	-	21.09	30.00	3.90	24.99	36.00
HT20	1	2412	20.78	-	20.78	30.00	3.90	24.68	36.00
HT20	1	2437	21.31	-	21.31	30.00	3.90	25.21	36.00
HT20	1	2462	21.57	-	21.57	30.00	3.90	25.47	36.00
HT20	2	2412	19.19	19.23	22.22	30.00	4.43	26.65	36.00
HT20	2	2437	20.55	20.48	23.53	30.00	4.43	27.95	36.00
HT20	2	2462	20.54	20.16	23.36	30.00	4.43	27.79	36.00
HT40	1	2422	19.36	-	19.36	30.00	3.90	23.26	36.00
HT40	1	2437	21.36	-	21.36	30.00	3.90	25.26	36.00
HT40	1	2452	19.79	-	19.79	30.00	3.90	23.69	36.00
HT40	2	2422	16.55	16.57	19.57	30.00	4.43	24.00	36.00
HT40	2	2437	20.02	20.04	23.04	30.00	4.43	27.47	36.00
HT40	2	2452	17.29	17.00	20.16	30.00	4.43	24.59	36.00
Resu	ult			•	•	Complied	•		•

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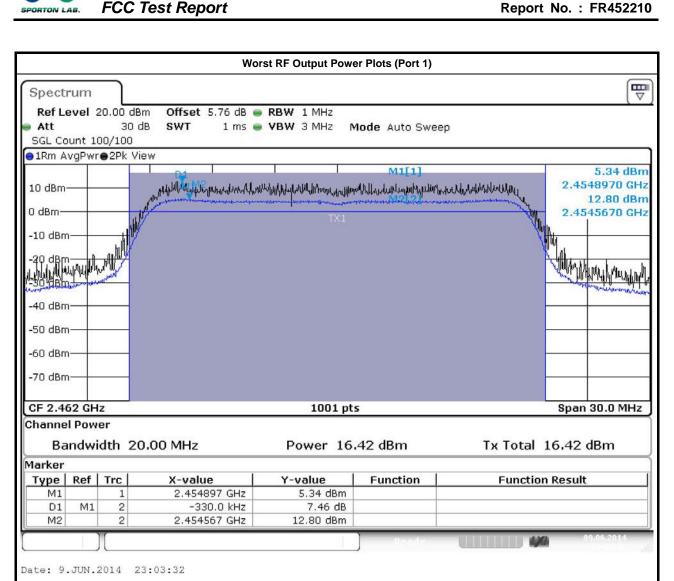


3.3.7 Test Result of Maximum Conducted Output Power

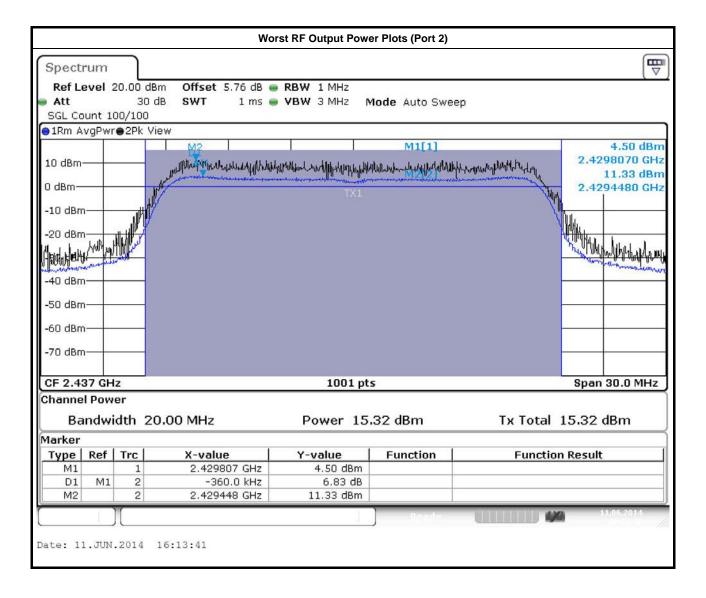
			Maximu	ım Conducte	d Output Po	wer			
Condi	tion				RF O	utput Power	(dBm)		
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11b	1	2412	16.29	-	16.29	30.00	3.90	20.19	36.00
11b	1	2437	16.24	-	16.24	30.00	3.90	20.14	36.00
11b	1	2462	16.19	-	16.19	30.00	3.90	20.09	36.00
11g	1	2412	16.17	-	16.17	30.00	3.90	20.07	36.00
11g	1	2437	16.09	-	16.09	30.00	3.90	19.99	36.00
11g	1	2462	16.19	-	16.19	30.00	3.90	20.09	36.00
HT20	1	2412	15.72	-	15.72	30.00	3.90	19.62	36.00
HT20	1	2437	16.34	-	16.34	30.00	3.90	20.24	36.00
HT20	1	2462	16.42	-	16.42	30.00	3.90	20.32	36.00
HT20	2	2412	14.13	14.17	17.16	30.00	4.43	21.59	36.00
HT20	2	2437	15.42	15.32	18.38	30.00	4.43	22.81	36.00
HT20	2	2462	15.40	15.15	18.29	30.00	4.43	22.72	36.00
HT40	1	2422	14.53	-	14.53	30.00	3.90	18.43	36.00
HT40	1	2437	16.39	-	16.39	30.00	3.90	20.29	36.00
HT40	1	2452	14.87	-	14.87	30.00	3.90	18.77	36.00
HT40	2	2422	11.70	11.73	14.73	30.00	4.43	19.15	36.00
HT40	2	2437	15.20	15.20	18.21	30.00	4.43	22.64	36.00
HT40	2	2452	12.49	12.05	15.29	30.00	4.43	19.71	36.00
Resu	ılt			•	•	Complied	•		•

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3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

	Power Spectral Density Limit
\boxtimes	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

3.4.2 Measuring Instruments

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

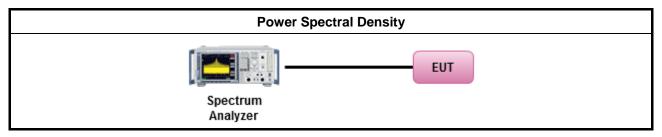
3.4.3 Test Procedures

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

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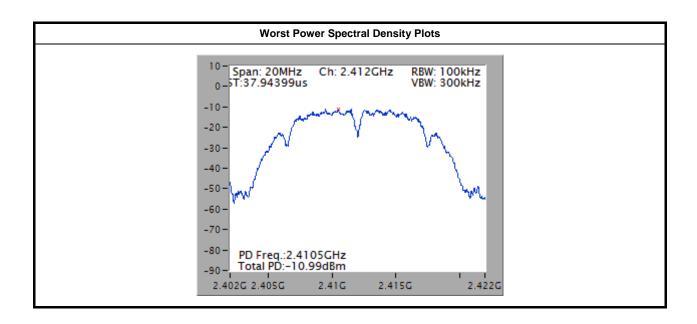
3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

			Power Spectral Density Result	
Condi	tion		Power Spec	ctral Density
Modulation Mode	N _{TX}	Freq. (MHz)	Sum Chain (dBm/100kHz)	PSD Limit (dBm/3kHz)
11b	1	2412	-10.99	8
11b	1	2437	-11.10	8
11b	1	2462	-11.16	8
11g	1	2412	-13.84	8
11g	1	2437	-13.81	8
11g	1	2462	-13.83	8
HT20	1	2412	-14.23	8
HT20	1	2437	-14.12	8
HT20	1	2462	-13.92	8
HT20	2	2412	-13.21	8
HT20	2	2437	-12.03	8
HT20	2	2462	-12.07	8
HT40	1	2422	-19.02	8
HT40	1	2437	-17.03	8
HT40	1	2452	-18.43	8
HT40	2	2422	-18.71	8
HT40	2	2437	-15.19	8
HT40	2	2452	-18.45	8
Resi	ult		Com	plied
Note 1: PSD = sum ea	ch transı	mit chains by	y bin-to-bin PSD	

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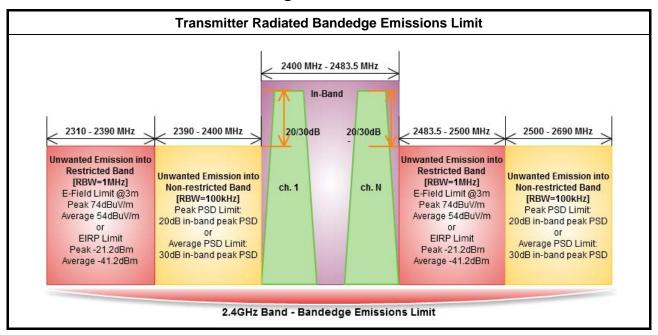
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3.5 Transmitter Bandedge Emissions

3.5.1 Transmitter Radiated Bandedge Emissions Limit



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3.5.2 Measuring Instruments

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

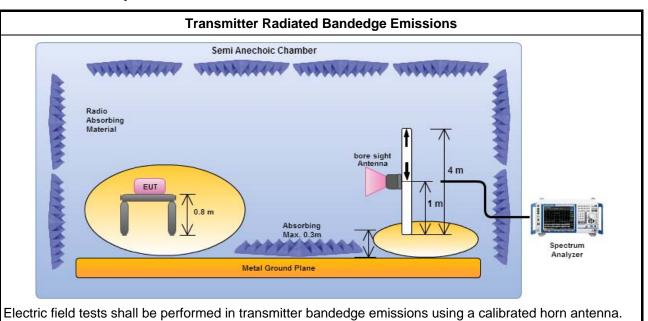
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3.5.3 Test Procedures

		Test Method
\boxtimes	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
\boxtimes		er as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency and highest frequency channel within the allowed operating band.
\boxtimes	For	the transmitter unwanted emissions shall be measured using following options below:
	\boxtimes	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
	\boxtimes	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
		Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)
		Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
		Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).
		Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
\boxtimes	For	the transmitter bandedge emissions shall be measured using following options below:
		Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	\boxtimes	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
		Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
	For	radiated measurement, refer as FCC KDB 558074, clause 12.2.7.

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3.5.4 Test Setup



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3.5.5 Transmitter Radiated Bandedge Emissions

Modulation	N _{TX}	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
11b	1	2412	101.87	2398.03	62.06	39.81	20	Н
11b	1	2462	102.53	2530.20	61.20	41.33	20	Н
11g	1	2412	98.88	2399.82	69.47	29.41	20	Н
11g	1	2462	98.44	2550.70	60.93	37.51	20	Н
HT20	1	2412	97.07	2398.03	65.83	31.24	20	Н
HT20	1	2462	96.91	2519.40	61.23	35.68	20	Н
HT20	2	2412	100.60	2397.14	65.56	35.04	20	Н
HT20	2	2462	101.31	2551.00	61.31	40.00	20	Н
HT40	1	2422	92.84	2399.10	64.45	28.39	20	Н
HT40	1	2452	91.97	2503.28	60.62	31.35	20	Н
HT40	2	2422	94.73	2398.57	62.75	31.98	20	Н
HT40	2	2452	95.84	2524.01	61.05	34.79	20	Н

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		2400-2483.	5MHz Trans	mitter Radi	ated Bande	dge Emissio	ns (Restric	ted Band)		
Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11b	1	2412	3	2371.26	58.86	74	2338.00	45.61	54	Н
11b	1	2462	3	2488.30	58.02	74	2483.80	45.44	54	Н
11g	1	2412	3	2390.00	70.13	74	2390.00	52.82	54	Н
11g	1	2462	3	2483.50	69.48	74	2483.50	52.87	54	Н
HT20	1	2412	3	2390.00	72.11	74	2390.00	51.73	54	Н
HT20	1	2462	3	2483.50	71.07	74	2483.50	52.86	54	Н
HT20	2	2412	3	2390.00	71.42	74	2390.00	52.70	54	Н
HT20	2	2462	3	2483.90	70.28	74	2483.50	52.41	54	Н
HT40	1	2422	3	2388.94	68.22	74	2390.00	52.83	54	Н
HT40	1	2452	3	2487.92	67.72	74	2483.500	52.76	54	Н
HT40	2	2422	3	2388.94	67.99	74	2390.00	52.50	54	Н
HT40	2	2452	3	2487.92	68.72	74	2483.72	52.98	54	Н
Note 1: Measure	ment wo	rst emission	s of receive	antenna pol	arization.			•		

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3.6 Transmitter Unwanted Emissions

3.6.1 Transmitter Radiated Unwanted Emissions Limit

	Restricted Band	l 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

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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 Ban	d 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.

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3.6.3 Test Procedures

	Test Method
perfo equi extra dista	surements may be performed at a distance other than the limit distance provided they are not bring or the near field and the emissions to be measured can be detected by the measurement pment. When performing measurements at a distance other than that specified, the results shall be applated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear ince for field-strength measurements, inverse of linear distance-squared for power-density surements).
\boxtimes	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
\boxtimes	Measurements in the frequency range above 18 GHz - 25GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
For	the transmitter unwanted emissions shall be measured using following options below:
\boxtimes	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
\boxtimes	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)
	Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	☐ Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).
	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
	Refer as FCC KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.
For	radiated measurement, refer as FCC KDB 558074, clause 12.2.7.
\boxtimes	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.

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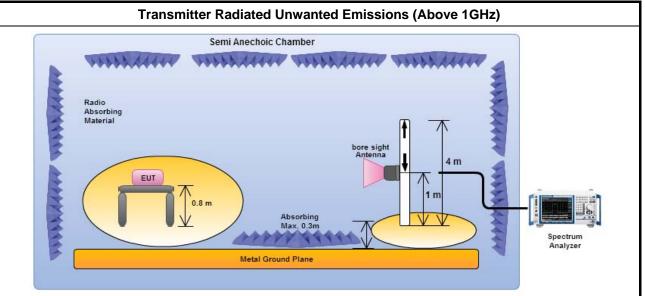
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3.6.4

Test Setup Transmitter Radiated Unwanted Emissions (below 1GHz) Semi Anechoic Chamber Absorbing Material EUT Metal Ground Plane

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



Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

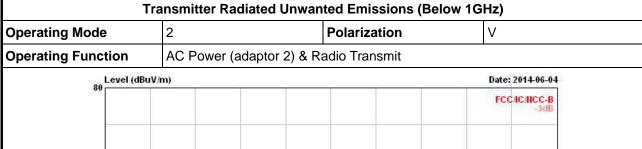
3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

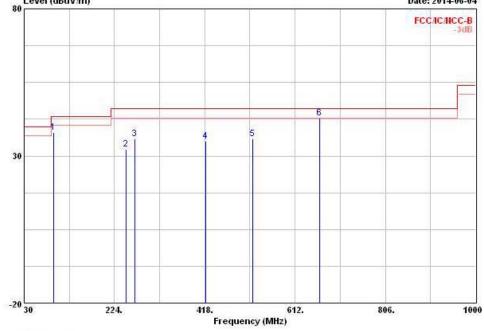
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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3.6.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)





	Freq	Level	Over Limit	2000		Antenna Factor		정보 '정보 중요	Remark	Ant Pos	Table Pos
2	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	- дв	dB	-		deg
1	94.020	38.11	-5.39	43.50	53.72	10.12	1.53	27.26	Peak		
2	249.220	32.36	-13.64	46.00	44.03	12.64	2.60	26.91	Peak		
3	268.620	35.74	-10.26	46.00	46.77	13.07	2.72	26.82	Peak		
4	419.940	35.11	-10.89	46.00	42.68	16.48	3.40	27.45	Peak		
5	521.790	35.95	-10.05	46.00	42.70	17.34	3.84	27.93	Peak		-
6 @	664.380	42.99	-3.01	46.00	47.60	18.76	4.41	27.78	OP		

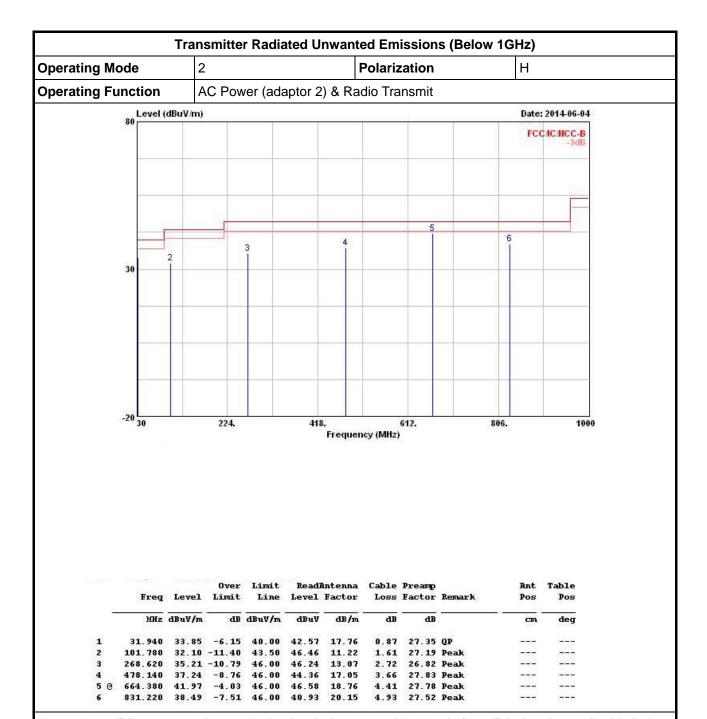
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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

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

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FCC Test Report Report No. : FR452210



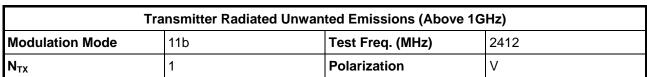
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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

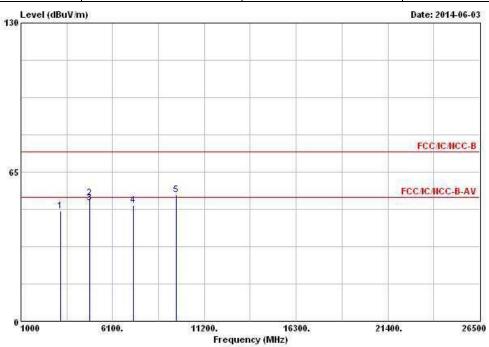
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)



Report No. : FR452210

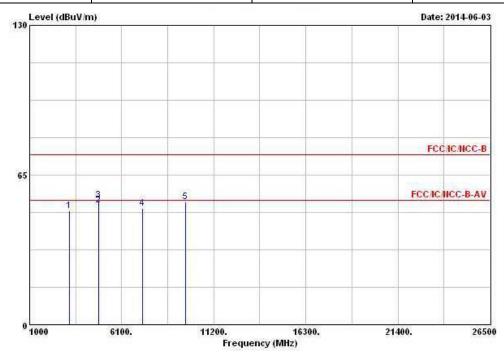


	Freq	Level	Over Limit	0.355.0				Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	- dB	-	- cm	deg
1	3216.000	48.17			45.71	30.56	4.49	32.59	Peak	200-02-00-0	
2	4824.000	53.74	-20.26	74.00	47.57	32.89	5.71	32.43	Peak	1	
3 @	4824.000	51.74	-2.26	54.00	45.57	32.89	5.71	32.43	Average		2004
4	7236.000	50.61			40.30	35.73	7.23	32.65	Peak		
5	9648.000	54.95			41.67	37.59	8.79	33.10	Peak	537000	(1000 AC

- 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 (106.18 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11b	Test Freq. (MHz)	2412					
N _{TX}	1	Polarization	Н					



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB	-	cm	deg
1	3216.000	49.54			47.08	30.56	4.49	32.59	Peak		
2 @	4824.000	52.06	-1.94	54.00	45.89	32.89	5.71	32.43	Average		
3	4824.000	54.20	-19.80	74.00	48.03	32.89	5.71	32.43	Peak		224
4	7236.000	50.60			40.29	35.73	7.23	32.65	Peak		
5	9648.000	53.38			40.10	37.59	8.79	33.10	Peak		3555

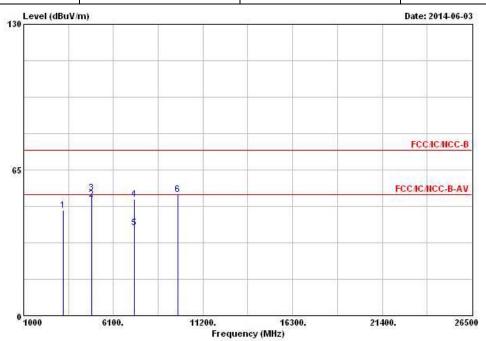
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (106.18 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11b	Test Freq. (MHz)	2437						
N _{TX}	1	Polarization	V						

Report No. : FR452210



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB		cm	deg
1	3246.000	46.88			44.29	30.63	4.54	32.58	Peak		7777
2 @	4874.000	52.05	-1.95	54.00	45.79	32.96	5.72	32.42	Average		
3	4874.000	54.86	-19.14	74.00	48.60	32.96	5.72	32.42	Peak		
4	7311.000	51.84	-22.16	74.00	41.34	35.88	7.28	32.66	Peak		
5	7311.000	39.08	-14.92	54.00	28.58	35.88	7.28	32.66	Average	-	77.77
6	9748.000	53.93			40.53	37.71	8.77	33.08	Peak		

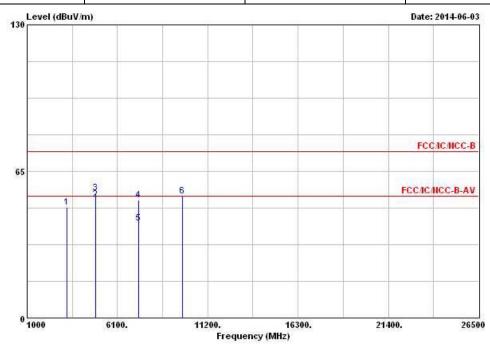
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (105.68 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11b	Test Freq. (MHz)	2437						
N _{TX}	1	Polarization	Н						

Report No. : FR452210

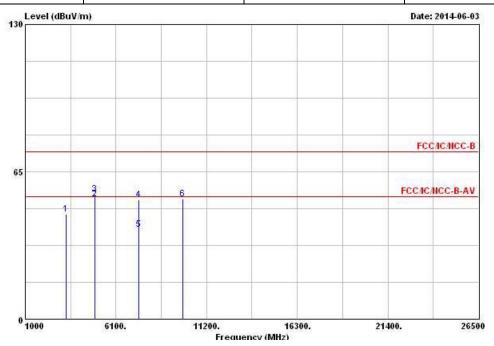


			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3248.000	48.98			46.39	30.63	4.54	32.58	Peak		-
2 @	4874.000	52.71	-1.29	54.00	46.45	32.96	5.72	32.42	Average		
3	4874.000	55.36	-18.64	74.00	49.10	32.96	5.72	32.42	Peak		
4	7311.000	52.19	-21.81	74.00	41.69	35.88	7.28	32.66	Peak		
5	7311.000	42.15	-11.85	54.00	31.65	35.88	7.28	32.66	Average		-7250
6	9748.000	54.06			40.66	37.71	8.77	33.08	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 (105.68 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11b	Test Freq. (MHz)	2462						
N_{TX}	1	Polarization	V						



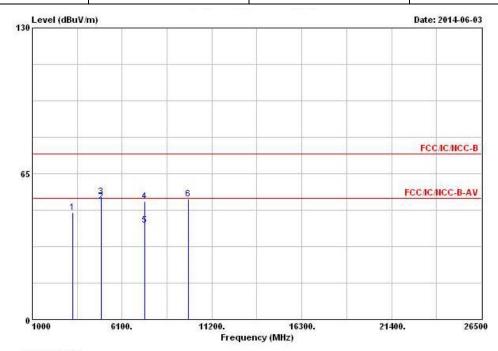
			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3280.000	46.16			43.49	30.71	4.54	32.58	Peak		(D50)(B
2 @	4924.000	52.83	-1.17	54.00	46.48	33.02	5.74	32.41	Average	25000	222
3	4924.000	55.05	-18.95	74.00	48.70	33.02	5.74	32.41	Peak		
4	7386.000	52.52	-21.48	74.00	41.80	36.07	7.34	32.69	Peak		
5	7386.000	39.72	-14.28	54.00	29.00	36.07	7.34	32.69	Average	-	7550
6	9848.000	53.08			39.61	37.81	8.74	33.08	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 (106.87 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11b	Test Freq. (MHz)	2462						
N _{TX}	1	Polarization	Н						

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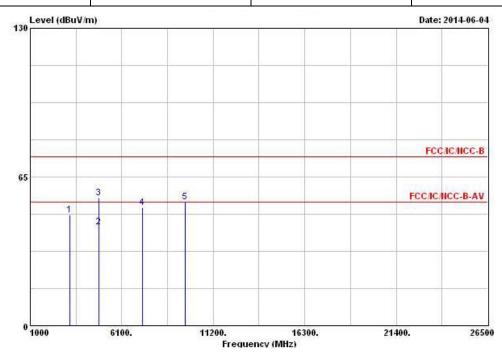


			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	Mz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3280.000	47.52			44.85	30.71	4.54	32.58	Peak		
2 @	4924.000	52.53	-1.47	54.00	46.18	33.02	5.74	32.41	Average		
3	4924.000	54.59	-19.41	74.00	48.24	33.02	5.74	32.41	Peak		
4	7386.000	52.77	-21.23	74.00	42.05	36.07	7.34	32.69	Peak		
5	7386.000	42.08	-11.92	54.00	31.36	36.07	7.34	32.69	Average		
6	9848.000	53.73			40.26	37.81	8.74	33.08	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 (106.87 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	11g	Test Freq. (MHz)	2412								
N _{TX}	1	Polarization	V								



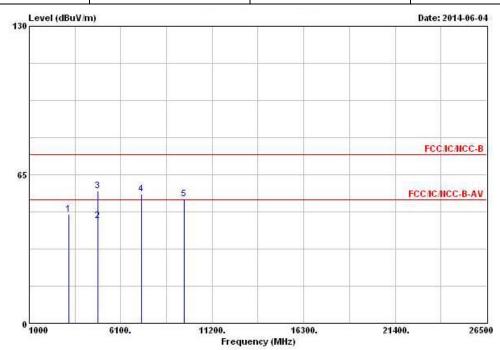
			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	ав	dB		cm	deg
1	3216.000	48.28			45.82	30.56	4.49	32.59	Peak		(85.5
2	4824.000	42.98	-11.02	54.00	36.81	32.89	5.71	32.43	Average		
3	4824.000	55.73	-18.27	74.00	49.56	32.89	5.71	32.43	Peak		
4	7236.000	51.61			41.30	35.73	7.23	32.65	Peak		
5	9648.000	54.18			40.90	37.59	8.79	33.10	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 (107.71 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode 11g Test Freq. (MHz) 2412									
N _{TX}	1	Polarization	Н						

Report No. : FR452210



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	-	cm	deg
1	3216.000	47.64			45.18	30.56	4.49	32.59	Peak		lene.
2	4824.000	44.91	-9.09	54.00	38.74	32.89	5.71	32.43	Average		
3	4824.000	58.04	-15.96	74.00	51.87	32.89	5.71	32.43	Peak		
4	7236.000	56.48			46.17	35.73	7.23	32.65	Peak		
5	9648.000	54.28			41.00	37.59	8.79	33.10	Peak		(5)55

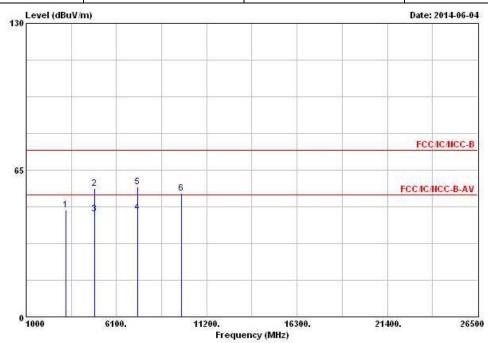
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (107.71 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode 11g Test Freq. (MHz) 2437								
N _{TX} 1 Polarization V									

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			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
1	3248.000	47.51			44.92	30.63	4.54	32.58	Peak		707
2	4874.000	56.95	-17.05	74.00	50.69	32.96	5.72	32.42	Peak		
3	4874.000	45.65	-8.35	54.00	39.39	32.96	5.72	32.42	Average		
4	7311.000	46.43	-7.57	54.00	35.93	35.88	7.28	32.66	Average		
5	7311.000	57.55	-16.45	74.00	47.05	35.88	7.28	32.66	Peak		17800113
6	9748.000	54.88			41.48	37.71	8.77	33.08	Peak		

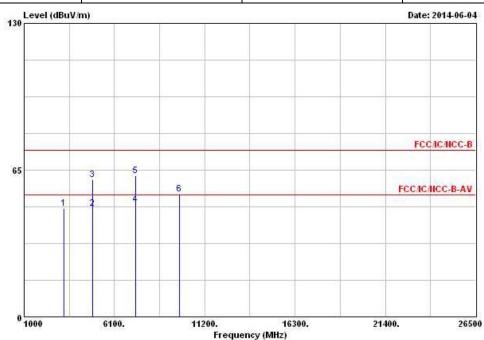
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (113.45 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode 11g Test Freq. (MHz) 2437									
N _{TX}	N _{TX} 1 Polarization H									

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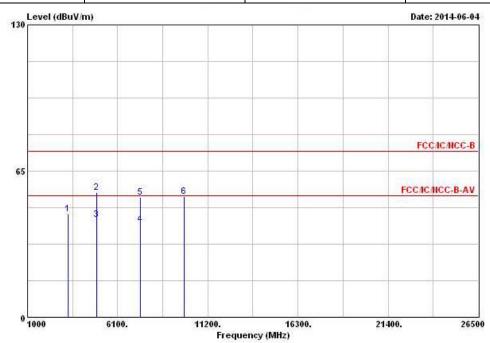


			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·		deg
1	3248.000	47.92			45.33	30.63	4.54	32.58	Peak		
2	4874.000	48.07	-5.93	54.00	41.81	32.96	5.72	32.42	Average		
3	4874.000	60.72	-13.28	74.00	54.46	32.96	5.72	32.42	Peak		
4	7311.000	49.86	-4.14	54.00	39.36	35.88	7.28	32.66	Average		
5	7311.000	62.40	-11.60	74.00	51.90	35.88	7.28	32.66	Peak		7.20010
6	9748.000	54.30			40.90	37.71	8.77	33.08	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 (113.45 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode 11g Test Freq. (MHz) 2462									
N _{TX} 1 Polarization V									



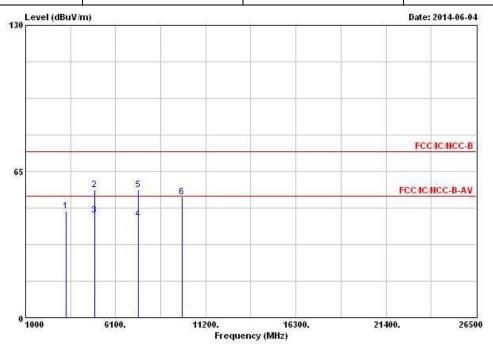
			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3280.000	45.79			43.12	30.71	4.54	32.58	Peak		lene
2	4924.000	55.42	-18.58	74.00	49.07	33.02	5.74	32.41	Peak		
3	4924.000	43.57	-10.43	54.00	37.22	33.02	5.74	32.41	Average		
4	7386.000	41.45	-12.55	54.00	30.73	36.07	7.34	32.69	Average		
5	7386.000	53.47	-20.53	74.00	42.75	36.07	7.34	32.69	Peak		(****
6	9848.000	53.53			40.06	37.81	8.74	33.08	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 (107.33 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode 11g Test Freq. (MHz) 2462								
N _{TX}	1	Polarization	Н					

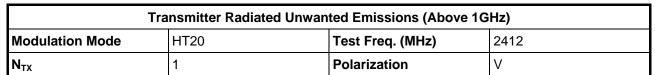
Report No. : FR452210

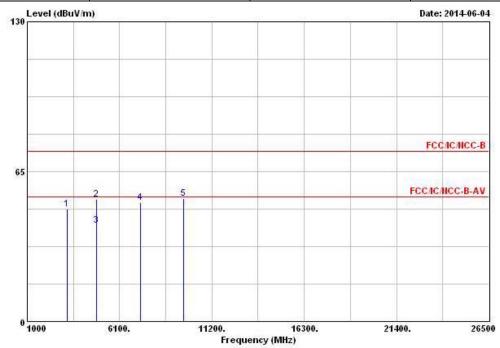


			Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3280.000	47.51			44.84	30.71	4.54	32.58	Peak		-
2	4924.000	57.03	-16.97	74.00	50.68	33.02	5.74	32.41	Peak		
3	4924.000	45.66	-8.34	54.00	39.31	33.02	5.74	32.41	Average		
4	7386.000	43.64	-10.36	54.00	32.92	36.07	7.34	32.69	Average		
5	7386.000	57.03	-16.97	74.00	46.31	36.07	7.34	32.69	Peak	TO THE REAL PROPERTY.	-7555
6	9848.000	53.63			40.16	37.81	8.74	33.08	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 (107.33 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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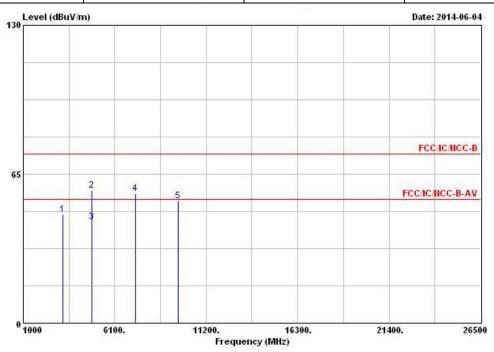


200000	Freq	Level	Over Limit			Antenna Factor		200000000000000000000000000000000000000	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
1	3216.000	48.68			46.22	30.56	4.49	32.59	Peak		777
2	4824.000	53.04	-20.96	74.00	46.87	32.89	5.71	32.43	Peak		
3	4824.000	41.69	-12.31	54.00	35.52	32.89	5.71	32.43	Average		
4	7236.000	51.47			41.16	35.73	7.23	32.65	Peak		
5	9648.000	53.42			40.14	37.59	8.79	33.10	Peak	7.00	75.7

- 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 (106.18 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode HT20 Test Freq. (MHz) 2412									
N _{TX} 1 Polarization H									



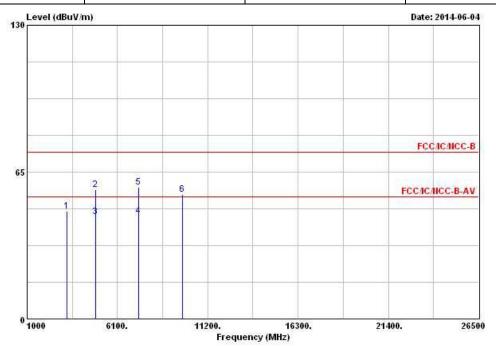
			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	- dB	B	cm	deg
1	3216.000	47.51			45.05	30.56	4.49	32.59	Peak		
2	4824.000	57.96	-16.04	74.00	51.79	32.89	5.71	32.43	Peak		
3	4824.000	44.26	-9.74	54.00	38.09	32.89	5.71	32.43	Average		
4	7236.000	56.51			46.20	35.73	7.23	32.65	Peak		
5	9648.000	53.47			40.19	37.59	8.79	33.10	Peak	555	1555

- 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 (106.18 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Report	No.	:	FR452210
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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Test Freq. (MHz)	2437									
N _{TX}	N _{TX} 1 Polarization V										



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	- дв	dB	-	cm	deg
1	3248.000	47.80			45.21	30.63	4.54	32.58	Peak	-	
2	4874.000	57.18	-16.82	74.00	50.92	32.96	5.72	32.42	Peak	1000	
3	4874.000	45.16	-8.84	54.00	38.90	32.96	5.72	32.42	Average		222
4	7311.000	45.50	-8.50	54.00	35.00	35.88	7.28	32.66	Average		
5	7311.000	58.45	-15.55	74.00	47.95	35.88	7.28	32.66	Peak	57,0200	80000
6	9748.000	55.05			41.65	37.71	8.77	33.08	Peak		

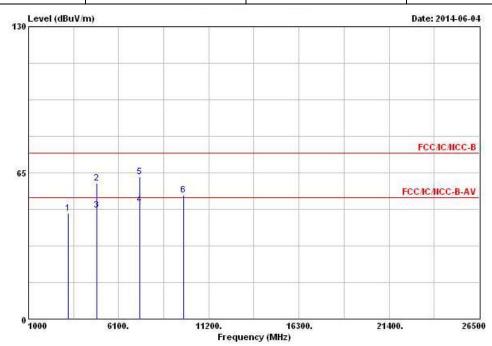
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (112.47 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	HT20	Test Freq. (MHz)	2437								
N _{TX}	N _{TX} 1 Polarization H										

Report No. : FR452210

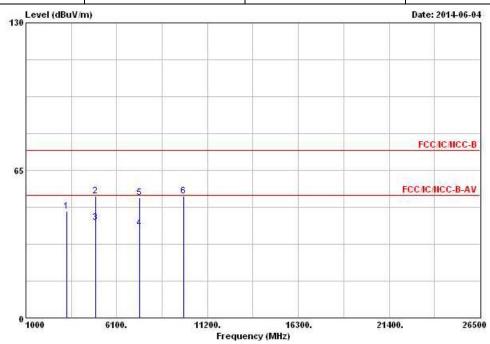


	Freq	Level	Over Limit			Antenna Factor				Ant Pos	Table Pos
-	MX	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3248.000	46.97			44.38	30.63	4.54	32.58	Peak		
2	4874.000	60.45	-13.55	74.00	54.19	32.96	5.72	32.42	Peak		
3	4874.000	48.39	-5.61	54.00	42.13	32.96	5.72	32.42	Average		222
4 @	7311.000	50.99	-3.01	54.00	40.49	35.88	7.28	32.66	Average		
5	7311.000	63.09	-10.91	74.00	52.59	35.88	7.28	32.66	Peak		-
6	9748.000	55.11			41.71	37.71	8.77	33.08	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 (112.47 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode HT20 Test Freq. (MHz) 2462											
N _{TX}	N _{TX} 1 Polarization V										

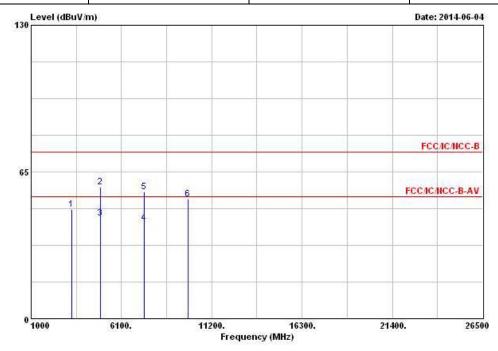


			Over	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3280.000	46.90			44.23	30.71	4.54	32.58	Peak		
2	4924.000	53.83	-20.17	74.00	47.48	33.02	5.74	32.41	Peak		
3	4924.000	41.99	-12.01	54.00	35.64	33.02	5.74	32.41	Average		
4	7386.000	39.69	-14.31	54.00	28.97	36.07	7.34	32.69	Average		(F-77)
5	7386.000	53.01	-20.99	74.00	42.29	36.07	7.34	32.69	Peak		
6	9848.000	53.81			40.34	37.81	8.74	33.08	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 (106.07 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode HT20 Test Freq. (MHz) 2462											
N_{TX}	N _{TX} 1 Polarization H										



			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	-	cm.	deg
1	3280.000	48.42			45.75	30.71	4.54	32.58	Peak	-	
2	4924.000	58.21	-15.79	74.00	51.86	33.02	5.74	32.41	Peak		
3	4924.000	44.34	-9.66	54.00	37.99	33.02	5.74	32.41	Average		
4	7386.000	42.47	-11.53	54.00	31.75	36.07	7.34	32.69	Average		
5	7386.000	56.16	-17.84	74.00	45.44	36.07	7.34	32.69	Peak	50,000	80000
6	9848.000	52.93			39.46	37.81	8.74	33.08	Peak		

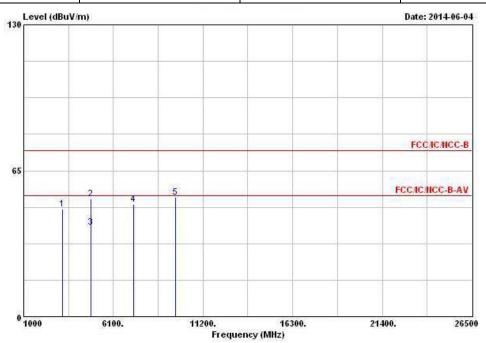
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (106.07 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode HT20 Test Freq. (MHz) 2412										
N _{TX}	N _{TX} 2 Polarization V										

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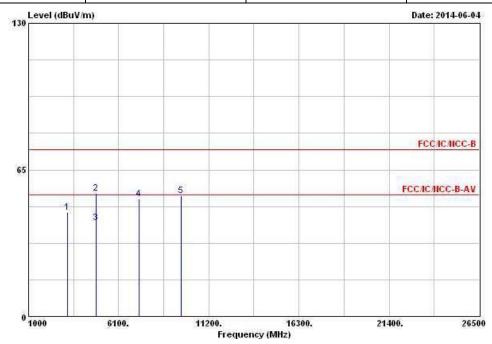


			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB	-	cm	deg
1	3216.000	47.89			45.43	30.56	4.49	32.59	Peak		1000
2	4824.000	52.55	-21.45	74.00	46.38	32.89	5.71	32.43	Peak		
3	4824.000	39.64	-14.36	54.00	33.47	32.89	5.71	32.43	Average		
4	7236.000	50.00			39.69	35.73	7.23	32.65	Peak		
5	9648.000	53.23			39.95	37.59	8.79	33.10	Peak	5.555	3555

- 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 (109.40 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	2412							
N_{TX}	2	Polarization	Н							



				0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	-	cm.	deg
1		3216.000	46.20			43.74	30.56	4.49	32.59	Peak	0.00	0.50
2		4824.000	54.72	-19.28	74.00	48.55	32.89	5.71	32.43	Peak		
3	0	4824.000	41.52	-12.48	54.00	35.35	32.89	5.71	32.43	Average		
4		7236.000	52.08			41.77	35.73	7.23	32.65	Peak		3 1.55
5		9648.000	53.41			40.13	37.59	8.79	33.10	Peak	0.000	0.50

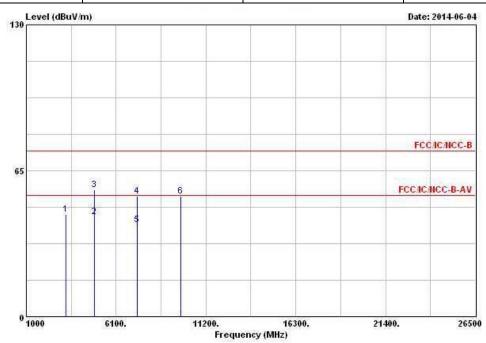
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (109.40dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	2437							
N_{TX}	2	Polarization	V							

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		23 62	0ver	13335		Antenna		Preamp	<u> </u>	Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	i di	cm	deg
1	3248.000	45.47			42.88	30.63	4.54	32.58	Peak	755	2000
2	4874.000	44.60	-9.40	54.00	38.34	32.96	5.72	32.42	Average		
3	4874.000	56.62	-17.38	74.00	50.36	32.96	5.72	32.42	Peak		2222
4	7311.000	53.80	-20.20	74.00	43.30	35.88	7.28	32.66	Peak		
5	7311.000	40.91	-13.09	54.00	30.41	35.88	7.28	32.66	Average	755	3555
6	9748.000	53.77			40.37	37.71	8.77	33.08	Peak		

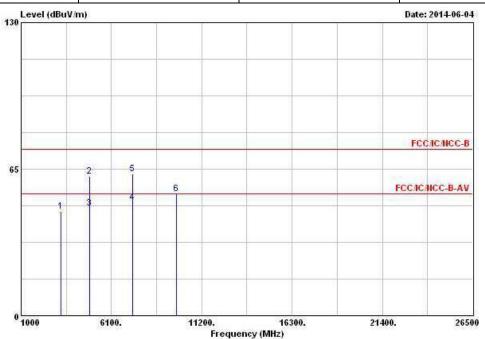
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (113.46 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	HT20	Test Freq. (MHz)	2437						
N _{TX}	2	Polarization	Н						

Report No. : FR452210

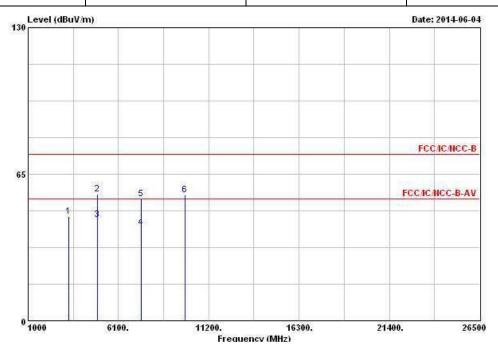


			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
1	3248.000	46.14			43.55	30.63	4.54	32.58	Peak		
2	4874.000	61.73	-12.27	74.00	55.47	32.96	5.72	32.42	Peak		
3	4874.000	47.66	-6.34	54.00	41.40	32.96	5.72	32.42	Average		
4 @	7311.000	50.04	-3.96	54.00	39.54	35.88	7.28	32.66	Average	****	-
5	7311.000	62.73	-11.27	74.00	52.23	35.88	7.28	32.66	Peak		
6	9748.000	54.07			40.67	37.71	8.77	33.08	Peak	<u> </u>	3 <u>26.5 U</u>

- 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 (113.46 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	2462							
N _{TX}	2	Polarization	V							



	Freq	Level	Over Limit	0.3565		Antenna Factor			Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	3280.000	46.31			43.64	30.71	4.54	32.58	Peak	27.77	(500
2	4924.000	56.15	-17.85	74.00	49.80	33.02	5.74	32.41	Peak		
3	4924.000	44.79	-9.21	54.00	38.44	33.02	5.74	32.41	Average		224
4	7386.000	41.46	-12.54	54.00	30.74	36.07	7.34	32.69	Average		
5	7386.000	54.04	-19.96	74.00	43.32	36.07	7.34	32.69	Peak	200000	(5000
6	9848.000	55.68			42.21	37.81	8.74	33.08	Peak		

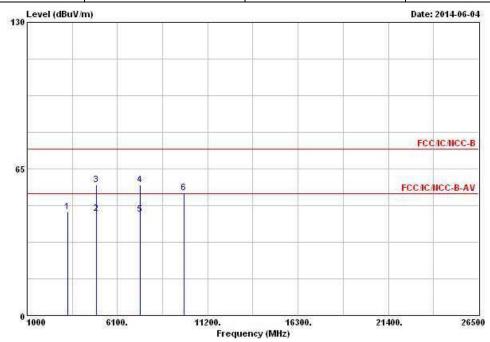
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (110.07 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	2462							
N _{TX}	2	Polarization	Н							

Report No. : FR452210

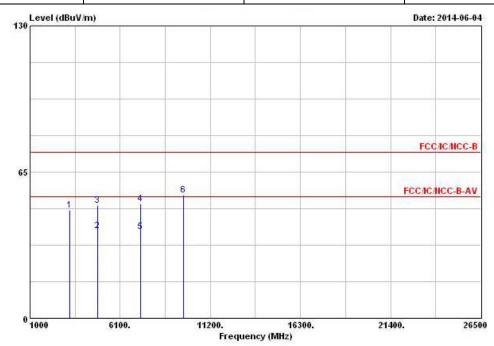


			0ver	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
1	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	*	- cm	deg
1	3280.000	45.86			43.19	30.71	4.54	32.58	Peak		3750
2	4924.000	45.25	-8.75	54.00	38.90	33.02	5.74	32.41	Average		
3	4924.000	57.82	-16.18	74.00	51.47	33.02	5.74	32.41	Peak		
4	7386.000	58.00	-16.00	74.00	47.28	36.07	7.34	32.69	Peak		
5	7386.000	44.89	-9.11	54.00	34.17	36.07	7.34	32.69	Average	(770)	(Total Co
6	9848.000	54.42			40.95	37.81	8.74	33.08	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 (110.07 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	HT40	Test Freq. (MHz)	2422								
N _{TX}											



363-663	Freq	Level	Over Limit	(CONTRACT		Antenna Factor		which the con-	Remark	Ant Pos	Table Pos
	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	*	cm.	deg
1	3228.000	48.07			45.58	30.59	4.49	32.59	Peak		
2	4844.000	38.93	-15.07	54.00	32.73	32.91	5.72	32.43	Average		
3	4844.000	50.01	-23.99	74.00	43.81	32.91	5.72	32.43	Peak		
4	7266.000	50.89	-23.11	74.00	40.49	35.81	7.25	32.66	Peak		
5	7266.000	38.52	-15.48	54.00	28.12	35.81	7.25	32.66	Average		
6	9688.000	54.62			41.30	37.63	8.78	33.09	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 (102.08 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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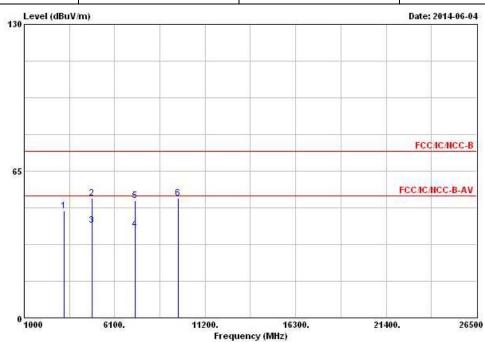


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 2422

N_{TX} 1 Polarization H

Report No. : FR452210



27207120	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
	Мнг	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	3228.000	47.44			44.95	30.59	4.49	32.59	Peak	inno.	-
2	4844.000	53.16	-20.84	74.00	46.96	32.91	5.72	32.43	Peak		
3	4844.000	41.06	-12.94	54.00	34.86	32.91	5.72	32.43	Average		
4	7266.000	39.07	-14.93	54.00	28.67	35.81	7.25	32.66	Average		
5	7266.000	51.84	-22.16	74.00	41.44	35.81	7.25	32.66	Peak		-0.00
6	9688.000	53.08			39.76	37.63	8.78	33.09	Peak		

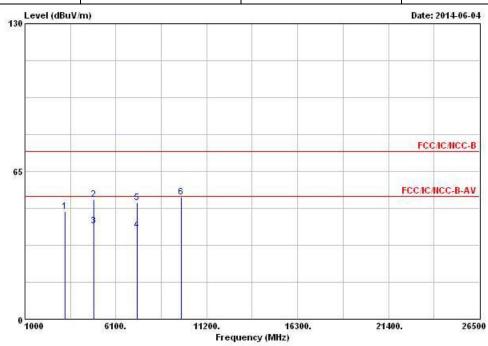
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (102.08 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode HT40 Test Freq. (MHz) 2437								
N _{TX} 1 Polarization V									

Report No. : FR452210

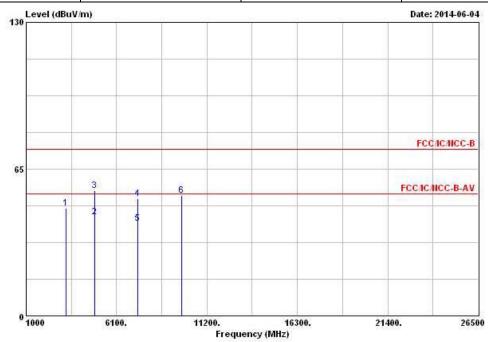


			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	5	cm.	deg
1	3248.000	47.50			44.91	30.63	4.54	32.58	Peak		
2	4874.000	52.50	-21.50	74.00	46.24	32.96	5.72	32.42	Peak		
3	4874.000	41.07	-12.93	54.00	34.81	32.96	5.72	32.42	Average	-++	
4	7311.000	39.21	-14.79	54.00	28.71	35.88	7.28	32.66	Average	-	1000
5	7311.000	51.22	-22.78	74.00	40.72	35.88	7.28	32.66	Peak		
6	9748.000	53.60			40.20	37.71	8.77	33.08	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 (104.88 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode HT40 Test Freq. (MHz) 2437								
N _{TX} 1 Polarization H								

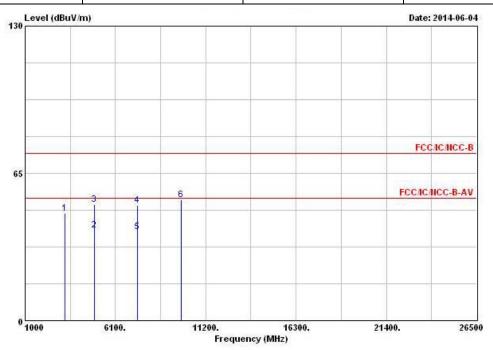


			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB		cm.	deg
1	3248.000	47.79			45.20	30.63	4.54	32.58	Peak		
2	4874.000	43.88	-10.12	54.00	37.62	32.96	5.72	32.42	Average		
3	4874.000	55.42	-18.58	74.00	49.16	32.96	5.72	32.42	Peak		
4	7311.000	52.10	-21.90	74.00	41.60	35.88	7.28	32.66	Peak		
5	7311.000	40.98	-13.02	54.00	30.48	35.88	7.28	32.66	Average		-7500
6	9748.000	53.44			40.04	37.71	8.77	33.08	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 (104.88 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode HT40 Test Freq. (MHz) 2452								
N _{TX} 1 Polarization V									



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm.	deg
1	3268.000	47.35			44.72	30.67	4.54	32.58	Peak		(55.5
2	4904.000	39.80	-14.20	54.00	33.49	33.00	5.73	32.42	Average		
3	4904.000	51.17	-22.83	74.00	44.86	33.00	5.73	32.42	Peak		
4	7356.000	50.90	-23.10	74.00	40.27	36.00	7.31	32.68	Peak		
5	7356.000	39.05	-14.95	54.00	28.42	36.00	7.31	32.68	Average		
6	9808.000	53.39			39.95	37.77	8.75	33.08	Peak		

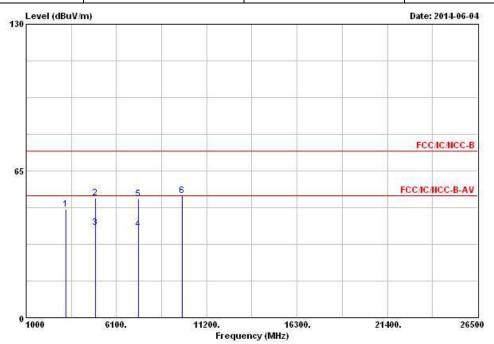
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (100.84 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode HT40 Test Freq. (MHz) 2452									
N _{TX} 1 Polarization H									

Report No. : FR452210



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freg	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	- dB	-	cm	deg
1	3268.000	47.91			45.28	30.67	4.54	32.58	Peak		
2	4904.000	52.91	-21.09	74.00	46.60	33.00	5.73	32.42	Peak		
3	4904.000	39.87	-14.13	54.00	33.56	33.00	5.73	32.42	Average		222
4	7356.000	39.29	-14.71	54.00	28.66	36.00	7.31	32.68	Average		
5	7356.000	52.47	-21.53	74.00	41.84	36.00	7.31	32.68	Peak	57.0200	(800000
6	9808.000	54.01			40.57	37.77	8.75	33.08	Peak		

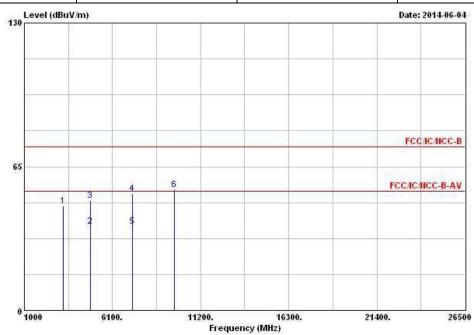
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (100.84 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode HT40 Test Freq. (MHz) 2422								
N _{TX} 2 Polarization V									

Report No. : FR452210

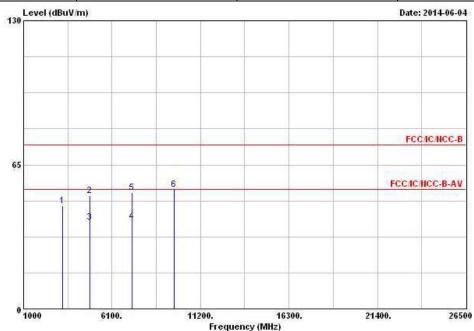


	-	20 002	0ver			Antenna		S. W		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB	-	cm	deg
1	3228.000	47.19			44.70	30.59	4.49	32.59	Peak	0.00	(550
2	4844.000	38.12	-15.88	54.00	31.92	32.91	5.72	32.43	Average		
3	4844.000	49.71	-24.29	74.00	43.51	32.91	5.72	32.43	Peak		
4	7266.000	53.01	-20.99	74.00	42.61	35.81	7.25	32.66	Peak		
5	7266.000	38.05	-15.95	54.00	27.65	35.81	7.25	32.66	Average	(75 UHD)	(755)(7)
6	9688.000	54.67			41.35	37.63	8.78	33.09	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 (104.61 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode HT40 Test Freq. (MHz) 2422									
N _{TX} 2 Polarization H									



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
3	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
1	3228.000	46.68			44.19	30.59	4.49	32.59	Peak		
2	4844.000	51.26	-22.74	74.00	45.06	32.91	5.72	32.43	Peak	200	
3	4844.000	39.17	-14.83	54.00	32.97	32.91	5.72	32.43	Average		
4 @	7266.000	39.38	-14.62	54.00	28.98	35.81	7.25	32.66	Average	-	45.50
5	7266.000	52.62	-21.38	74.00	42.22	35.81	7.25	32.66	Peak		
6	9688.000	53.93			40.61	37.63	8.78	33.09	Peak	14.00	3 <u>223.0</u>

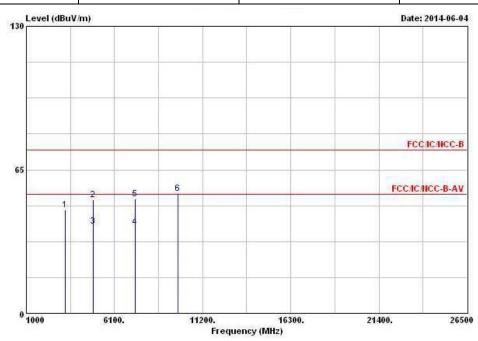
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted 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 (104.61 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT40	Test Freq. (MHz)	2437							
N _{TX}	N _{TX} 2 Polarization V									

Report No. : FR452210

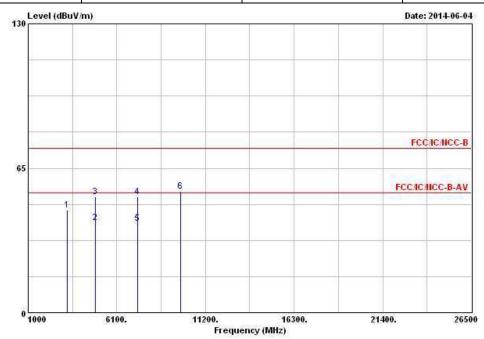


			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB		cm	deg
1	3248.000	46.69			44.10	30.63	4.54	32.58	Peak		
2	4874.000	51.42	-22.58	74.00	45.16	32.96	5.72	32.42	Peak		
3 @	4874.000	39.33	-14.67	54.00	33.07	32.96	5.72	32.42	Average	242	2226
4	7311.000	39.10	-14.90	54.00	28.60	35.88	7.28	32.66	Average		
5	7311.000	51.78	-22.22	74.00	41.28	35.88	7.28	32.66	Peak		1000
6	9748.000	54.24			40.84	37.71	8.77	33.08	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 (108.09 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT40	Test Freq. (MHz)	2437						
N _{TX} 2 Polarization H									

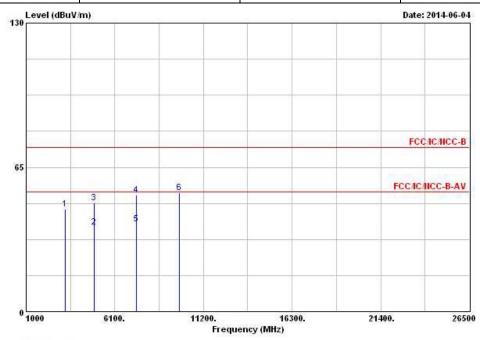


	Freq	Level	Over Limit	63566		Antenna Factor			Remark	Ant Pos	Table Pos
	rreq	rever	пппп	TIME	rever	ractor	TOSS	Factor	Kellark	PUS	PUS
3	MKz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	- дв	<u> </u>	cm	deg
1	3248.000	46.20			43.61	30.63	4.54	32.58	Peak	2777257	(5.5.2
2 @	4874.000	40.35	-13.65	54.00	34.09	32.96	5.72	32.42	Average	0.000	
3	4874.000	52.09	-21.91	74.00	45.83	32.96	5.72	32.42	Peak		
4	7311.000	52.02	-21.98	74.00	41.52	35.88	7.28	32.66	Peak		
5 @	7311.000	40.11	-13.89	54.00	29.61	35.88	7.28	32.66	Average	200000	(4500000
6	9748.000	54.51			41.11	37.71	8.77	33.08	Peak	0.000	

- 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 (108.09 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT40	Test Freq. (MHz)	2452						
N _{TX} 2 Polarization V									

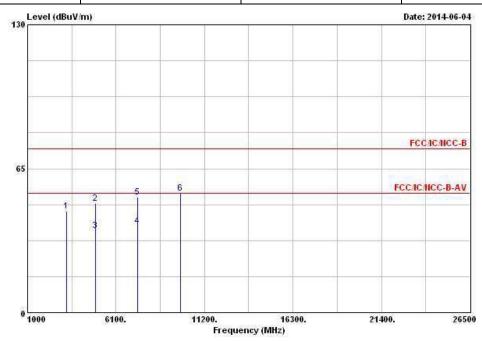


			Over	Limit	Readi	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	cm.	deg
1	3268.000	46.07			43.44	30.67	4.54	32.58	Peak		-
2	4904.000	38.11	-15.89	54.00	31.80	33.00	5.73	32.42	Average		
3	4904.000	49.11	-24.89	74.00	42.80	33.00	5.73	32.42	Peak		
4	7356.000	52.43	-21.57	74.00	41.80	36.00	7.31	32.68	Peak		
5	7356.000	39.29	-14.71	54.00	28.66	36.00	7.31	32.68	Average	77777	77.77
6	9808.000	53.59			40.15	37.77	8.75	33.08	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 (105.01 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT40	Test Freq. (MHz)	2452							
N _{TX}	N _{TX} 2 Polarization H									



			0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ав	dB	-	cm	deg
1	3268.000	45.88			43.25	30.67	4.54	32.58	Peak	2000	
2	4904.000	49.29	-24.71	74.00	42.98	33.00	5.73	32.42	Peak		
3	4904.000	37.09	-16.91	54.00	30.78	33.00	5.73	32.42	Average		
4	7356.000	39.22	-14.78	54.00	28.59	36.00	7.31	32.68	Average		
5	7356.000	52.04	-21.96	74.00	41.41	36.00	7.31	32.68	Peak	200000	(Andrews)
6	9804.000	53.92			40.48	37.77	8.75	33.08	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 (105.01 dBuV/m).
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz ~ 2.75GHz	Mar. 26, 2014	AC Conduction
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	JAN. 21, 2014	AC Conduction
LISN	EMCO	3810/2NM	9703-1839	9kHz ~ 30MHz	Apr. 21, 2014	AC Conduction
RF Cable-CON	HUBER+SUHNER	RG213/U	0-7611832020001	9kHz ~ 30MHz	Oct. 30, 2013	AC Conduction
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	AC Conduction

Report No. : FR452210

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSV 40	101013	9kHz ~ 40GHz	Jan. 25, 2014	RF Conducted
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jun. 27, 2013	RF Conducted
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	SN 345668/4	30MHz ~ 26.5GHz	Dec. 02, 2013	RF Conducted
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_103	10715/4 10716/4	30MHz ~ 26.5GHz	Dec. 02, 2013	RF Conducted
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	Jul. 16, 2013	RF Conducted

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

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 30, 2013	Radiation
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May. 05, 2014	Radiation
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Aug. 20, 2013	Radiation
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Mar. 27, 2014	Radiation
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 21, 2013	Radiation
Horn Antenna	ETS · LINDGREN	3115	6744	1GHz ~ 18GHz	May 05, 2014	Radiation
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz ~ 40GHz	Jan. 10, 2014	Radiation
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 16, 2013	Radiation
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Dec. 11, 2013	Radiation
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation

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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz - 30 MHz	Dec. 02, 2012	Radiation

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

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