

Equipment : ASUS Tablet

Marketing Name : ASUS Transformer Pad

Brand Name : ASUS Model No. : K010

FCC ID : MSQK0101

Standard : 47 CFR FCC Part 15.407

Operating Band : 5150 MHz - 5250 MHz

5250 MHz - 5350 MHz 5470 MHz - 5725 MHz

FCC Classification: NII

Applicant : ASUSTeK COMPUTER INC.

4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN

Manufacturer : See section 1.1.1 for more details

The product sample received on Mar. 13, 2014 and completely tested on Mar. 19, 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:

∄ames Fan / Assistant Manager





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Summary of Test Result

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	Conformance Test Specifications								
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result				
1.1.3	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied				
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.444MHz 41.18 (Margin 5.80dB) - AV 50.92 (Margin 6.06dB) - QP	FCC 15.207	Complied				
3.2	15.407(a)	Emission Bandwidth	Bandwidth [MHz] 20M:19.48 / 40M:40.81	Information only	Complied				
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Power [dBm] 5150-5250MHz:11.99 5250-5350MHz:11.96 5470-5725MHz:11.93	Power [dBm] 5150-5250MHz:17 5250-5350MHz:24 5470-5725MHz:24	Complied				
3.4	15.407(a)	Peak Power Spectral Density	PPSD [dBm/MHz] 5150-5250MHz:0.72 5250-5350MHz:0.79 5470-5725MHz:0.62	PPSD [dBm/MHz] 5150-5250MHz:4 5250-5350MHz:11 5470-5725MHz:11	Complied				
3.5	15.407(a)	Peak Excursion	10.55 dB	13 dB	Complied				
3.6	15.407(b)	Transmitter Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 5725.00MHz, 65.21 (Margin 2.99dB) - PK	Non-Restricted Bands: ≤ -27dBm (68.3dBuV/m@3m) Restricted Bands: FCC 15.209	Complied				
3.7	15.407(g)	Frequency Stability	3.6297 ppm	Signal shall remain in-band	Complied				

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Revision History

Report No.	Version	Description	Issued Date
FR430802-03AN	Rev. 01	Initial issue of report	Nov. 14, 2014
FR430802-03AN	Rev. 02	Modified section 1.3.	Nov. 18, 2014

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1 General Description

1.1 Information

This is a variant of MSQK010 with the NFC transmitter removed, and the other design is exactly identical. The change is deemed to have no impact on NFC performance. The MSQK010 NFC test results report is Sporton FCC NFC report FR430802 is representative and are referenced in this report.

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1.1.1 Manufacturer Information

Manufacturer1	: PROTEK (SHANGHAI) LTD 3768 XIU YAN RD KANG QIAO TOWN PU DONG NEW District , Shanghai, China
Manufacturer2	: TECH-COM (SHANGHAI) COMPUTER CO., LTD 68 SANZHUANG RD, SONGJIANG EXPORT PROCESSING ZONE, SHANGHAI 201613, CHINA
Manufacturer3	: DIGITEK (CHONGQING)LIMITED B01,SECTION C, AIRPORT FUNCTION ZONE,LIANGLU CUNTAN FREE TRADE PORT AREA, YUBEI DISTRICT CHONGQING CITY, CHINA
Manufacturer4	: WISTRON INFOCOMM (SUNSHAN) CO LTD FIRST AVE KUNSHAN INTEGRATED FREE TRADE ZONE KUNSHAN JIANGSU CHINA
Manufacturer5	: COTEK ELECTRONICS (KUZHOU) CO LTD 288 MAYUN RD NEW DISTRICT SUZHOU JIANGSU 215011 CHINA
Manufacturer6	: TECH-FRONT (CHONGQING)COMPUTER CO LTD 18,ZONGBAO ROAD, SHAPINGBA DISTRICT, CHONGQING, CHINA
Manufacturer7	: WISTRON INFOCOMM(CHONGQING)CO LTD No. 18-9 baohong Avenue, Wangjia Sub-district, Yubei District, Chongging, China

1.1.2 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)	Co-location	
5150-5250	а	5180-5240	36-48 [4]	1	11.99	N/A	
5250-5350		5260-5320	52-64 [4]	1	11.96		
5470-5725		5500-5700	100-140 [8]	1	11.93		
5150-5250	n (HT20)	5180-5240	36-48 [4]	1	9.91	N/A	
5250-5350		5260-5320	52-64 [4]	1	9.88		
5470-5725		5500-5700	100-140 [8]	1	9.99		
5150-5250	n (HT40)	5190-5230	38-46 [2]	1	9.55	N/A	
5250-5350		5270-5310	54-62 [2]	1	9.60		
5470-5725		5510-5670	102-134 [3]	1	9.99		

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Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)

1.1.3 Antenna Information

		Antenna Category			
\boxtimes	Inte	gral antenna (antenna permanently attached)			
	\boxtimes	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.			
	Exte	ernal antenna (dedicated antennas)			
		Single power level with corresponding antenna(s).			
	☐ Multiple power level and corresponding antenna(s).				
	RF connector provided				
	☐ Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type)				
		Standard antenna connector. (e.g., SMA, N, BNC, and TNC type)			

	Antenna General Information							
No.	Ant. Cat.	Ant. Type	Gain _(dBi)					
1	Integral	PIFA	5150~5250MHz : 2.82 5250~5350MHz : 2.06 5470~5725MHz : 1.23					

1.1.4 Type of EUT

	Identify EUT					
EU	Γ Serial Number	N/A				
Pre	sentation of Equipment	☐ Production ; ☐ Prototype				
		Type of EUT				
\boxtimes	Stand-alone					
	Combined (EUT where the radio part is fully integrated within another device)					
	Combined Equipment - Brand Name / Model No.:					
	Plug-in radio (EUT intended for a variety of host systems)					
	Host System - Brand Name / Model No.:					
	Other:					

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1.1.5 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle							
Operated normally mode for worst du	Operated normally mode for worst duty cycle						
Operated test mode for worst duty cyc	○ Operated test mode for worst duty cycle						
Test Signal Duty Cycle (x) Power Duty Factor [dB] – (10 log 1/x)							
94.33% - IEEE 802.11a	0.25						
□ 93.99% - IEEE 802.11n (HT20)	0.27						
⊠ 88.56% - IEEE 802.11n (HT40)	0.53						

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1.1.6 EUT Operational Condition

Supply Voltage		□ DC	
Type of DC Source	☐ Internal DC supply		Battery
Test Voltage			
Test Climatic	⊠ Tnom (20°C)		☐ Tmin (-30°C)

1.2 Accessories

	Accessories							
No.	Equipment	Model Name	Remarks					
1	AC Adapter 1	ASUS	PSM06A-050Q	I/P: 100-240Vac, 0.25A O/P: 5.2Vdc, 1.35A				
2	AC Adapter 2	ASUS	PA-1070-07	I/P: 100-240Vac, 0.25A O/P: 5.2Vdc, 1.35A				
3	USB cable	ASUS		0.97m shielding cable				
4	Battery	ASUS	C11P1328	Power Rating: 3.75Vdc or 3.7Vdc 19Wh				

1.3 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2009
- FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01

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1.4 Testing Location Information

	Testing Location							
\boxtimes	Sporton Lab	ADD	:	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.				
		TEL	:	886-3-327-3450	6 FAX : 886	6-3-327-0973		
\boxtimes	ICC Lab	ADD TEL	Taiwan (R.O.C.)					
		1	•	000-3-27 1-0000	1 AX . 000	J-3-310-0133		
Te	est Condition	n	Т	est Site No.	Test Engineer	Test Environment	Test Date	
RF Conducted			TH01-HY Mark Liao 21°C / 62% Mar.		Mar. 17, 2014			
AC Conduction* CO01-WS		CO01-WS	Skys Huang	19°C / 65%	Mar. 17, 2014			
Radiated Emission*			C	3CH02-WS	Skys Huang	20°C / 64%	Mar. 13 ~ 19, 2014	

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FCC site registration No.: 657002 IC site registration No.: 10807A-2

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

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

1.5 Measurement Uncertainty

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

Measurement Uncertainty					
Test Item		Uncertainty	Limit		
AC power-line conducted emissions		±2.26 dB	N/A		
Emission bandwidth, 6dB bandwidth		±1.42 %	N/A		
RF output power, conducted		±0.63 dB	N/A		
Power density, conducted	±0.81 dB	N/A			
All emissions, radiated	30 – 1000 MHz	±3.90 dB	N/A		
	1 – 25 GHz	±4.20 dB	N/A		
Temperature		±0.8 °C	N/A		
Humidity	±3 %	N/A			
DC and low frequency voltages	±3 %	N/A			
Time	±1.42 %	N/A			
Duty Cycle		±1.42 %	N/A		

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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 / MCS		
11a,6-54Mbps	1	6-54Mbps	6 Mbps		
HT20,M0-7	1	M0-7	M0		
HT40,M0-7	1	M0-7	M0		

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2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5150-5250MHz band)							
Test Software Version	adb (adb command, version: 1.0.31					
				Test Free	uency (MH	z)	
Modulation Mode	N _{TX}	NCB: 20MHz		NCB: 40MHz			
		5180	5200	5240	5190	5230	
11a,6-54Mbps	1	13.5	13.5	13.5			
HT20,M0-7	1	11.5	11.5	11.5			
HT40,M0-7	1				11	11	

The Worst Case Power Setting Parameter (5250-5350MHz band)							
Test Software Version	adb (adb command, version: 1.0.31					
				Test Fred	uency (MH	z)	
Modulation Mode	N _{TX}	NCB: 20MHz		NCB: 40MHz			
		5260	5300	5320	5270	5310	
11a,6-54Mbps	1	13.5	13.5	13.5			
HT20,M0-7	1	11.5	11.5	11.5			
HT40,M0-7	1				11	11	

The Worst Case Power Setting Parameter (5470-5725 MHz band)							
Test Software Version	adb (adb command, version: 1.0.31					
				Test Frequ	ency (MHz)		
Modulation Mode	N _{TX}	NCB: 20MHz		Z	NCB: 40MHz		
		5500	5580	5700	5510	5550	5670
11a,6-54Mbps	1	13.5	13.5	13.5			
HT20,M0-M7	1	12	12	12			
HT40,M0-M7	1				11.5	11.5	11.5

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2.3 The Worst Case Measurement Configuration

TI	The Worst Case Mode for Following Conformance Tests			
Tests Item AC power-line conducted emissions				
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz			
Operating Mode	Operating Mode Description			
1	AC Power & Radio link (WLAN)			

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Note: Adapter 1 and Adapter 2 had been pretested and found that **Adapter 1** was the worst case and was selected for final testing (Adapter 1: PSM06A-050Q; Adapter 2: PA-1070-07).

The Worst Case Mode for Following Conformance Tests				
Tests Item RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion				
Test Condition	Conducted measurement at transmit chains			
Modulation Mode	11a, 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 If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.				
	☐ 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 Z.				
	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. The worst planes is X.				
Operating Mode					
Modulation Mode	11a, HT20, HT40				
	X Plane	Y Plane	Z Plane		
Orthogonal Planes of EUT					

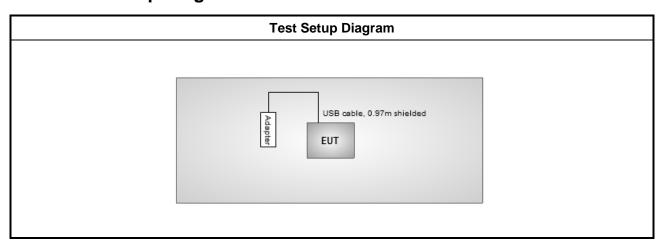
Note: Adapter 1 and Adapter 2 had been pretested and found that **Adapter 1** was the worst case and was selected for final testing (Adapter 1: PSM06A-050Q; Adapter 2: PA-1070-07).

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2.4 Test Setup Diagram



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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC POWE	er-line Conducted Emissions L	IIIIL
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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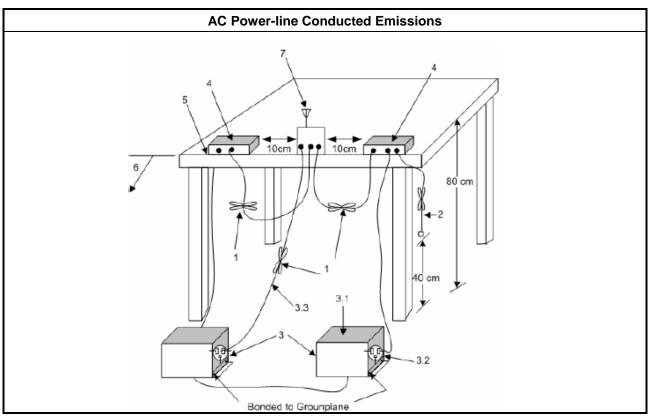
3.1.2 Measuring Instruments

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

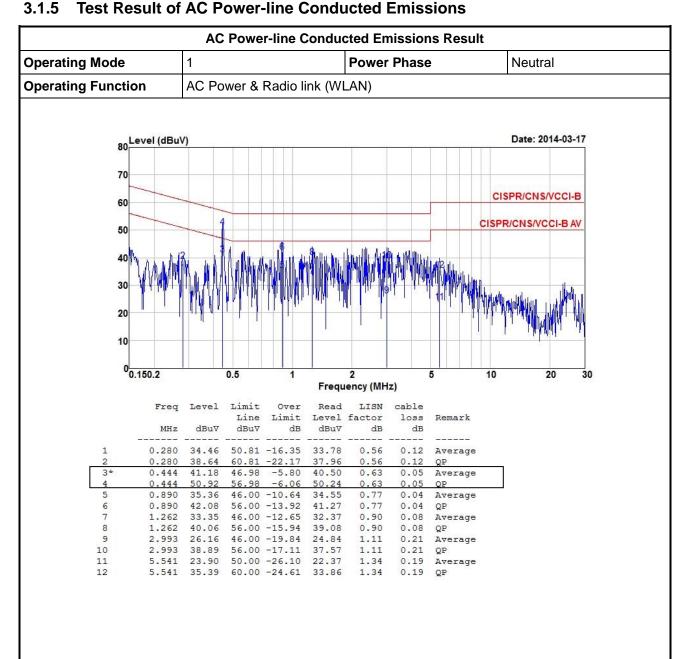
3.1.3 Test Procedures

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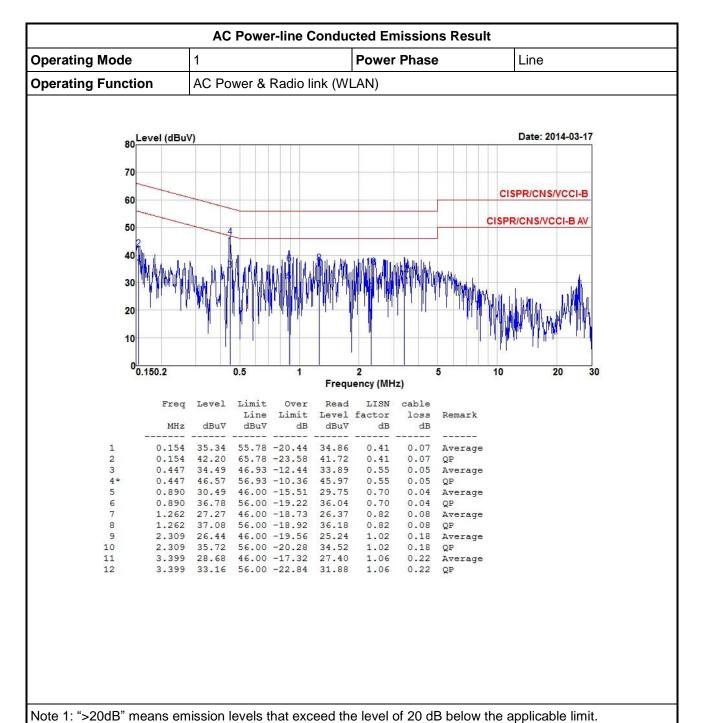
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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

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

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

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3.2 Emission Bandwidth

3.2.1 Emission Bandwidth (EBW) Limit

	Emission Bandwidth (EBW) Limit
UNI	I Devices
\boxtimes	For the $5.15-5.25$ GHz band, the maximum conducted output power shall not exceed the lesser of 50 mW or $4 dBm + 10 \log B$, where B is the $26 dB$ emission bandwidth in MHz.
\boxtimes	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
\boxtimes	For the $5.47-5.725$ GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
	For the 5.725-5.825 GHz band, the maximum conducted output power shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz
LE-	LAN Devices
\boxtimes	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
\boxtimes	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
\boxtimes	For the 5.47 - 5.6 GHz band and 5.65 - 5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

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3.2.2 Measuring Instruments

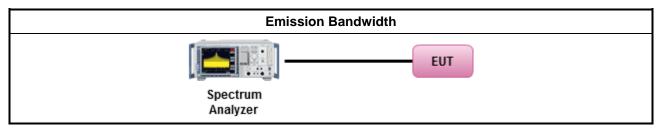
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

		Test Method						
		rest Method						
\boxtimes	For	For the emission bandwidth shall be measured using one of the options below:						
	\boxtimes	Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause C for EBW and clause D for OBW measurement.						
		Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
	\boxtimes	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.						
\boxtimes	For	conducted measurement.						
	\boxtimes	The EUT supports single transmit chain and measurements performed on this transmit chain.						
		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 transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.						

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3.2.4 Test Setup



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3.2.5 Test Result of Emission Bandwidth

		UNII I	Emissio	n Bandw	vidth Re	sult (51	50-5250	MHz ban	d)					
Condit	ion					Emiss	sion Bar	ndwidth	(MHz)					
		Eroa		26dB Ba	ndwidtl	1	99% Bandwidth				Power	Power Limit		
Modulation Mode	N _{TX}	Freq. (MHz)	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 4	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 4	26dB BW	99% BW		
11a	1	5180	19.07				16.50				16.80	16.17		
11a	1	5200	19.13				16.53				16.82	16.18		
11a	1	5240	19.19				16.53				16.83	16.18		
HT20	1	5180	19.42				17.47				16.88	16.42		
HT20	1	5200	19.36				17.47				16.87	16.42		
HT20	1	5240	19.48				17.47				16.90	16.42		
HT40	1	5190	40.70				36.14				17.00	17.00		
HT40	1	5230	40.46				36.21				17.00	17.00		
Resu	Result				Complied									

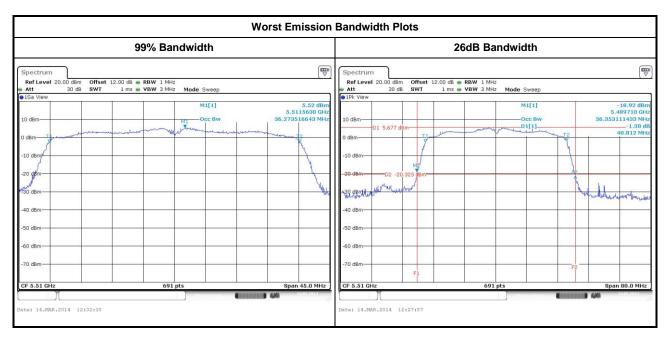
		UNII E	Emissio	n Bandv	vidth Re	sult (52	50-5350	/IHz ban	d)					
Condit	ion			Emission Bandwidth (MHz)										
		Eroa	:	26dB Ba	ndwidth	1		99% Ba	ndwidth		Power	r Limit		
Modulation Mode	N _{TX}	Freq. (MHz)	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 4	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 4	26dB BW	99% BW		
11a	1	5260	19.25				16.53				23.84	23.18		
11a	1	5300	19.19				16.53				23.83	23.18		
11a	1	5320	18.96				16.53				23.78	23.18		
HT20	1	5260	19.48				17.47				23.90	23.42		
HT20	1	5300	19.42				17.51				23.88	23.43		
HT20	1	5320	19.30				17.47				23.86	23.42		
HT40	1	5270	40.70				36.14				24.00	24.00		
HT40	1	5310	40.46				36.21				24.00	24.00		
Resu	Result				Complied									

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		UNII	Emissio	n Bandv	idth Re	sult (547	70-57251	MHz ban	d)				
Condit	ion		Emission Bandwidth (MHz)										
		Freq.		26dB Ba	ndwidth	1		99% Bandwidtl			Powe	r Limit	
Modulation Mode	N _{TX}	(MHz)	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 4	Chain- Port 1	Chain- Port 2	Chain- Port 3	Chain- Port 4	26dB BW	99% BW	
11a	1	5500	19.07				16.53		1		23.80	23.18	
11a	1	5580	19.13				16.50		1		23.82	23.17	
11a	1	5700	19.13				16.50				23.82	23.17	
HT20	1	5500	19.36				17.51				23.87	23.43	
HT20	1	5580	19.42				17.51				23.88	23.43	
HT20	1	5700	19.48				17.51				23.90	23.43	
HT40	1	5510	40.81				36.27				24.00	24.00	
HT40	1	5550	40.35				36.21				24.00	24.00	
HT40	1	5670	40.58				36.27				24.00	24.00	
Resu	Result						Com	plied					

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3.3 RF Output Power

3.3.1 RF Output Power Limit

	Maximum Conducted Output Power Limit
UN	II Devices
	For the 5.15-5.25 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
	For the 5.725-5.825 GHz band:
	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W or 17 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$.
LE-	LAN Devices
	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
	For the 5.725-5.825 GHz band, the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
	Point-to-multipoint systems (P2M): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
	Point-to-point systems (P2P): the maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. If e.i.r.p. > 36 dBm, G _{TX} ≤ P _{Out}
	t = maximum conducted output power in dBm, = the maximum transmitting antenna directional gain in dBi.

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3.3.2 Measuring Instruments

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

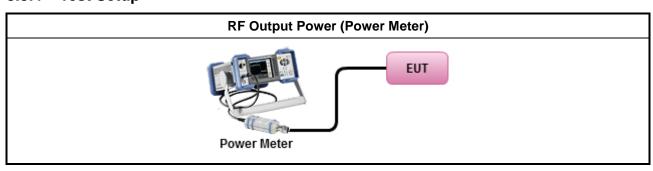
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3.3.3 Test Procedures

		Test Method
\boxtimes	Max	imum Conducted Output Power
	[duty	y cycle ≥ 98% or external video / power trigger]
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-1 (spectral trace averaging).
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty	cycle < 98% and average over on/off periods with duty factor
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-2 (spectral trace averaging).
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wid	eband RF power meter and average over on/off periods with duty factor
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method PM (using an RF average power meter).
\boxtimes	For	conducted measurement.
	\boxtimes	The EUT supports single transmit chain and measurements performed on this transmit chain.
		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: $P_{total} = P_1 + P_2 + + P_n$ (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

Directio	Directional Gain (DG) Result for 5150 ~ 5250 MHz band								
Transmit Chains No.	Transmit Chains No. 1								
Maximum G _{ANT} (dBi)		2.82		-	-				
Modulation Mode	DG (dBi)	N _{TX}	N _{SS} (Min.)	STBC	Array Gain (dB)				
11a,6-54Mbps	2.82	1	1	-	-				
HT20,M0-7	2.82	1	1	-	-				
HT40,M0-7	2.82	1	1	-	-				

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Direction	Directional Gain (DG) Result for 5250 ~ 5350 MHz band							
Transmit Chains No.		1		-	-			
Maximum G _{ANT} (dBi)		2.06		-	-			
Modulation Mode	Modulation Mode DG (dBi)			STBC	Array Gain (dB)			
11a,6-54Mbps	2.06	1	1	-	-			
HT20,M0-7	HT20,M0-7 2.06		1	-	-			
HT40,M0-7	2.06	1	1	-	-			

Direction	Directional Gain (DG) Result for 5470 ~ 5725 MHz band							
Transmit Chains No.		1						
Maximum G _{ANT} (dBi)		1.23						
Modulation Mode	DG (dBi)	N _{TX}	N _{SS}	STBC	Array Gain (dB)			
11a,6-54Mbps	1.23	1	1	-	-			
HT20,M0-7	HT20,M0-7 1.23		1	-	-			
HT40,M0-7	1.23	1	1	-	-			

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3.3.6 Test Result of Maximum Conducted Output Power

		Maxim	num Cond	ucted Out	put Powe	r (5150-52	50MHz ba	and)					
Condit	tion		RF Output Power (dBm)										
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit		
11a	1	5180	11.94				11.94	16.80	2.82	14.76	22.80		
11a	1	5200	11.96				11.96	16.82	2.82	14.78	22.82		
11a	1	5240	11.99				11.99	16.83	2.82	14.81	22.83		
HT20	1	5180	9.76				9.76	16.88	2.82	12.58	22.88		
HT20	1	5200	9.87				9.87	16.87	2.82	12.69	22.87		
HT20	1	5240	9.91				9.91	16.90	2.82	12.73	22.90		
HT40	1	5190	9.51				9.51	17.00	2.82	12.33	23.00		
HT40	1	5230	9.55				9.55	17.00	2.82	12.37	23.00		
Resu	Result						Complied			•			

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		Maxin	num Cond	ucted Out	put Powe	r (5250-53	50MHz ba	and)						
Condi	Condition RF Output Power (dBm)													
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit			
11a	1	5260	11.89				11.89	23.84	2.06	13.95	29.84			
11a	1	5300	11.90				11.90	23.83	2.06	13.96	29.83			
11a	1	5320	11.96				11.96	23.78	2.06	14.02	29.78			
HT20	1	5260	9.80				9.80	23.90	2.06	11.86	29.90			
HT20	1	5300	9.86				9.86	23.88	2.06	11.92	29.88			
HT20	1	5320	9.88				9.88	23.86	2.06	11.94	29.86			
HT40	1	5270	9.57				9.57	24.00	2.06	11.63	30.00			
HT40	1	5310	9.60				9.60	24.00	2.06	11.66	30.00			
Resu	Result				Complied									

		Maxin	num Cond	ucted Out	put Powe	r (5470-57	25MHz ba	and)			
Condi	tion					RF Out	put Powe	r (dBm)			
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	Power Limit	DG (dBi)	EIRP Power	EIRP Limit
11a	1	5500	11.75				11.75	23.80	1.23	12.98	29.80
11a	1	5580	11.86				11.86	23.82	1.23	13.09	29.82
11a	1	5700	11.93				11.93	23.82	1.23	13.16	29.82
HT20	1	5500	9.87				9.87	23.87	1.23	11.10	29.87
HT20	1	5580	9.95				9.95	23.88	1.23	11.18	29.88
HT20	1	5700	9.99				9.99	23.90	1.23	11.22	29.90
HT40	1	5510	9.91				9.91	24.00	1.23	11.14	30.00
HT40	1	5550	9.93				9.93	24.00	1.23	11.16	30.00
HT40	1	5670	9.99				9.99	24.00	1.23	11.22	30.00
Resu	Result						Complied	l		•	

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3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

	Peak Power Spectral Density Limit
UNI	I Devices
\boxtimes	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) \leq 4 dBm/MHz. If $G_{TX} >$ 6 dBi, then PPSD = 4 - ($G_{TX} -$ 6).
\boxtimes	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) \leq 11 dBm/MHz. If $G_{TX} >$ 6 dBi, then PPSD= 11 – ($G_{TX} -$ 6).
\boxtimes	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) \leq 11 dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= 11 – ($G_{TX} - 6$).
	For the 5.725-5.825 GHz band:
	Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) \leq 17 dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= 17 – ($G_{TX} - 6$).
	Point-to-point systems (P2P): the peak power spectral density (PPSD) \leq 17 dBm/MHz. If $G_{TX} > 23$ dBi, then PPSD = 17 – ($G_{TX} - 23$).
Ė	LAN Devices
\boxtimes	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) \leq 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) \leq 10 dBm/MHz.
\boxtimes	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) \leq 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) \leq 17 dBm/MHz.
\boxtimes	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) \leq 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) \leq 17 dBm/MHz.
	For the 5.725-5.825 GHz band, the peak power spectral density (PPSD) \leq 17 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) \leq 23 dBm/MHz.
pow	SD = peak power spectral density that he same method as used to determine the conducted output ver shall be used to determine the power spectral density. And power spectral density in dBm/MHz = the maximum transmitting antenna directional gain in dBi.

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3.4.2 Measuring Instruments

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

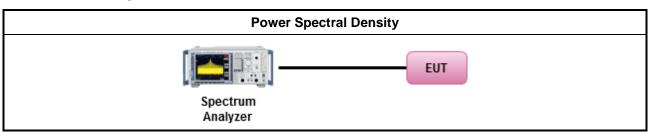
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3.4.3 Test Procedures

		Test Method
	outpo funct	s power spectral density procedures that the same method as used to determine the conducted ut power shall be used to determine the peak power spectral density and use the peak search ion on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density be measured using below options:
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, F)5) power spectral density can be measured using resolution bandwidths $<$ 1 MHz provided that the results are integrated over 1 MHz bandwidth
	[duty	cycle ≥ 98% or external video / power trigger]
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-1 (spectral trace averaging).
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty	cycle < 98% and average over on/off periods with duty factor
		Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-2 (spectral trace averaging).
	\boxtimes	Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
\boxtimes	For o	conducted measurement.
		The EUT supports single transmit chain and measurements performed on this transmit chain.
		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: Measure and sum the spectra across the outputs. 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.
		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.
		If multiple transmit chains, EIRP PPSD calculation could be following as methods: $ PPSD_{total} = PPSD_1 + PPSD_2 + + PPSD_n $ (calculated in linear unit [mW] and transfer to log unit [dBm]) $ EIRP_{total} = PPSD_{total} + DG $
		Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.

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3.4.4 Test Setup



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3.4.5 Test Result of Peak Power Spectral Density

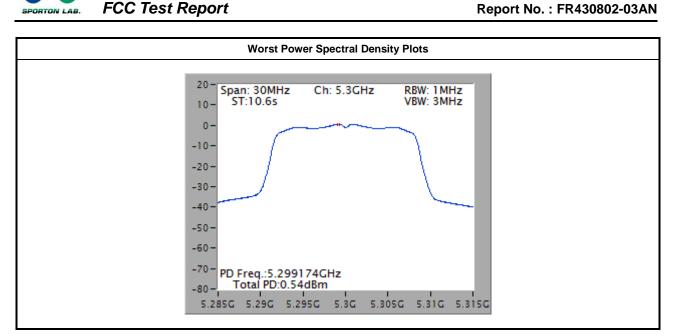
Condit	ion				Peak	Power Sp	ectral Den	sity (dBm	n/MHz)		
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5180	0.50				0.50	4.00	2.82	3.32	10.00
11a	1	5200	0.61				0.61	4.00	2.82	3.43	10.00
11a	1	5240	0.72				0.72	4.00	2.82	3.54	10.00
HT20	1	5180	-1.85				-1.85	4.00	2.82	0.97	10.00
HT20	1	5200	-1.70				-1.70	4.00	2.82	1.12	10.00
HT20	1	5240	-1.65				-1.65	4.00	2.82	1.17	10.00
HT40	1	5190	-4.22				-4.22	4.00	2.82	-1.40	10.00
HT40	1	5230	-4.06				-4.06	4.00	2.82	-1.24	10.00

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		Peak I	Power Spe	ctral Den	sity Resul	t (5250-53	50MHz ba	and)			
Condit	tion			Peak Power Spectral Density (dBm/MHz)							
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5260	0.78				0.78	11.00	2.06	2.84	17.00
11a	1	5300	0.79				0.79	11.00	2.06	2.85	17.00
11a	1	5320	0.69				0.69	11.00	2.06	2.75	17.00
HT20	1	5260	-1.46				-1.46	11.00	2.06	0.60	17.00
HT20	1	5300	-1.52				-1.52	11.00	2.06	0.54	17.00
HT20	1	5320	-1.65				-1.65	11.00	2.06	0.41	17.00
HT40	1	5270	-4.01				-4.01	11.00	2.06	-1.95	17.00
HT40	1	5310	-4.04				-4.04	11.00	2.06	-1.98	17.00
Resu	ılt						Complied				

		Peak F	Power Spe	ctral Den	sity Resul	lt (5470-57	25MHz ba	and)			
Condit	ion			Peak Power Spectral Density (dBm/MHz)							
Modulation Mode	N _{TX}	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 4	Sum Chain	PSD Limit	DG (dBi)	EIRP PSD	EIRP Limit
11a	1	5500	0.24				0.24	11.00	1.23	1.47	17.00
11a	1	5580	0.27				0.27	11.00	1.23	1.50	17.00
11a	1	5700	0.62				0.62	11.00	1.23	1.85	17.00
HT20	1	5500	-1.12				-1.12	11.00	1.23	0.11	17.00
HT20	1	5580	-1.09				-1.09	11.00	1.23	0.14	17.00
HT20	1	5700	-0.58				-0.58	11.00	1.23	0.65	17.00
HT40	1	5510	-4.58				-4.58	11.00	1.23	-3.35	17.00
HT40	1	5550	-4.62				-4.62	11.00	1.23	-3.39	17.00
HT40	1	5670	-4.23				-4.23	11.00	1.23	-3.00	17.00
Resu	ılt				•	•	Complied		•		•

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Note: Power Spectral Density plot without duty factor.

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3.5 Peak Excursion

3.5.1 Peak Excursion Limit

Peak Excursion Limit UNII Devices □ Peak excursion ≤ 13 dB. The ratio of the maximum of the peak-max-hold spectrum to the maximum of the average spectrum for continuous transmission does not exceed 13 dB. (Earlier procedures that required computing the ratio of the two spectra at each frequency across the emission bandwidth can lead to unintended failures at band edges and will no longer be required.) LE-LAN Devices □ N/A

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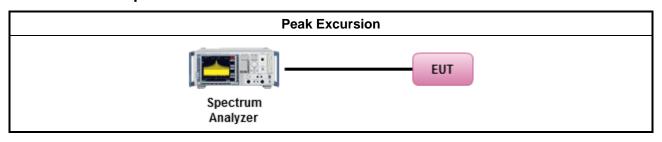
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

	Test Method
	Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause G peak excursion method.
\boxtimes	Testing each modulation mode on a single channel is sufficient to demonstrate compliance with the peak excursion requirement
\boxtimes	For conducted measurement.
	☐ Testing a single output port is sufficient to demonstrate compliance with the peak excursion.

3.5.4 Test Setup



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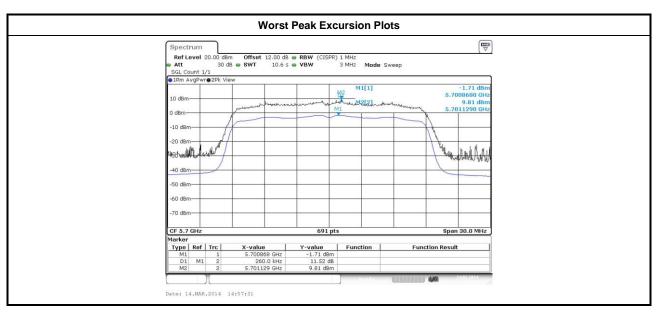
3.5.5 Test Result of Peak Excursion

			UNII Peak Excursi	on Result (5150-5	5250MHz band)					
Condit	ion			Peak Excursion (dB)						
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	Limit			
11a	1	5240	8.67	9.65	9.30	8.91	13.0			
HT20	1	5240	8.70	9.24	9.56	9.29	13.0			
HT40	1	5230	8.94	9.57	9.55	10.51	13.0			
Resu	lt				Complied					

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			UNII Peak Excurs	ion Result (5250-5	350MHz band)		
Condit	ion			F	Peak Excursion (di	В)	
Modulation Mode N _{TX} Freq. (MHz)			BPSK	QPSK	16QAM	64QAM	Limit
11a	1	5320	8.55	8.99	9.54	9.32	13.0
HT20	1	5320	8.54	8.99	10.32	9.48	13.0
HT40	1	5310	8.50	9.34	9.54	8.43	13.0
Resu	lt				Complied		

			UNII Peak Excursi	ion Result (5470-	5725MHz band)		
Condit	ion			ı	Peak Excursion (di	3)	
Modulation Mode	N _{TX}	Freq. (MHz)	BPSK	QPSK	16QAM	64QAM	Limit
11a	1	5700	8.48	8.89	9.13	9.16	13.0
HT20	1	5700	8.44	9.37	10.55	9.35	13.0
HT40	1	5670	8.58	9.36	8.68	8.63	13.0
Resu	lt				Complied		



Note: Peak excursion plot without duty factor.

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3.6 Transmitter Radiated Unwanted Emissions and Band Edge

3.6.1 Transmitter Radiated Unwanted Emissions and Band Edge Limit

Unwanted emiss	sions below 1 GHz and re	stricted band emissions a	bove 1GHz 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 band emissions above 1GHz Limit
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]
5.725 - 5.825 GHz	5.715 5.725 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] 5.825 5.835 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p27 dBm [68.2 dBuV/m@3m]

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

3.6.2 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
performance equipment above are in the equipment of the e	surements may be performed at a distance other than the limit distance provided they are not primed in the near field and the emissions to be measured can be detected by the measurement priment. Measurements shall not be performed at a distance greater than 30 m for frequencies ve 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less impractical. When performing measurements at a distance other than that specified, the results shall extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear ance for field-strength measurements, inverse of linear distance-squared for power-density surements).
	Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.
	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.
	Measurements in the frequency range above 18 GHz - 40GHz 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:
	Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, clause H)1) for unwanted emissions into restricted bands.
	Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, H)6) Method AD (Trace Averaging).
	Refer as FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04, H)6) Method VB (Reduced VBW).
	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 789033 D01 General UNII Test Procedures Old Rules v01r04, clause H)5) measurement procedure peak limit.
	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
For	radiated measurement.
\boxtimes	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.
	Test Method
	conducted and cabinet radiation measurement, refer as FCC KDB 789033 D01 General UNII Test sedures Old Rules v01r04, clause H)3).
	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10

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log(N) if the measurements are made relative to the in-band emissions on the individual outputs.



	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
--	---

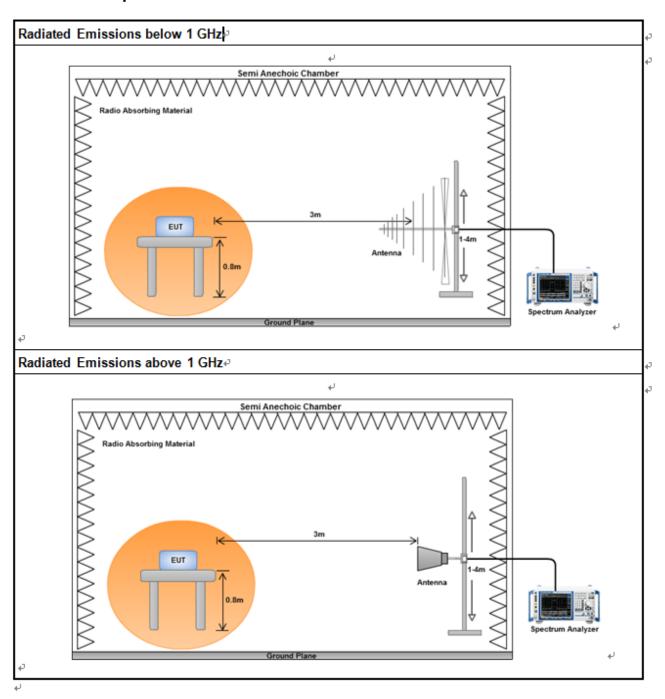
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3.6.4 Test Setup



3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

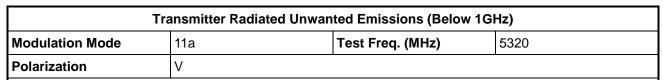
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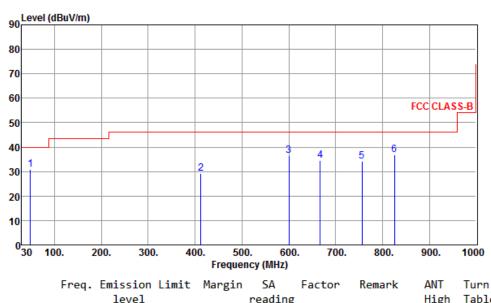
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3.6.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)



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	11 64.	level			reading		Kelliul K	High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	48.43	30.79	40.00	-9.21	47.20	-16.41	Peak		
2	412.18	29.38	46.00	-16.62	42.80	-13.42	Peak		
3	600.36	36.37	46.00	-9.63	45.94	-9.57	Peak		
4	667.29	34.51	46.00	-11.49	43.30	-8.79	Peak		
5	756.53	34.31	46.00	-11.69	41.63	-7.32	Peak		
6	825.40	36.79	46.00	-9.21	43.27	-6.48	Peak		

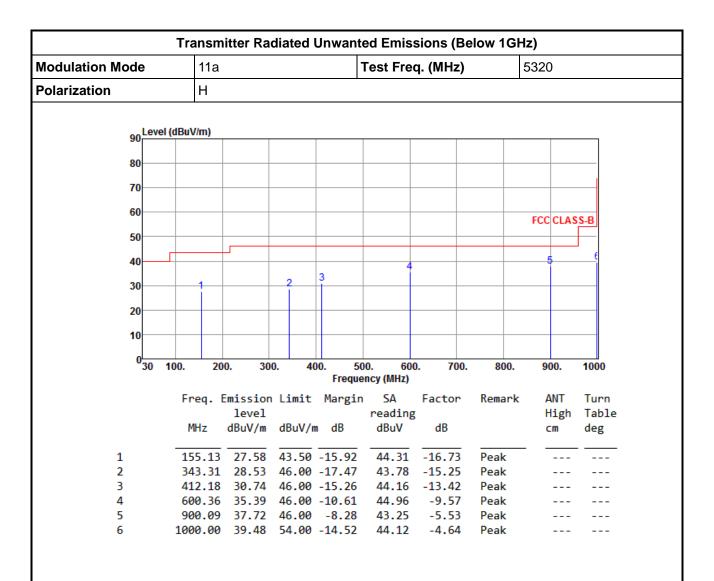
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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

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

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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.)

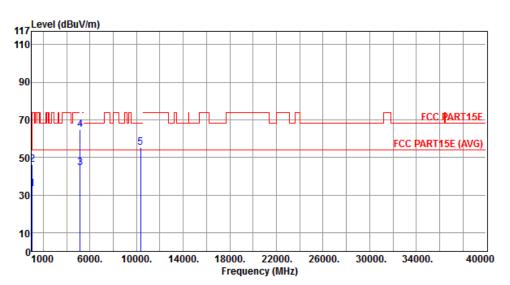
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	11a	Test Freq. (MHz)	5180				
N _{TX}	1	Polarization	V				

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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.11	54.00	-20.89	42.70	-9.59	Average		
2	1031.00	46.04	74.00	-27.96	55.63	-9.59	Peak		
3	5150.00	44.31	54.00	-9.69	38.60	5.71	Average		
4	5150.00	64.71	74.00	-9.29	59.00	5.71	Peak		
5	10360.00	55.06	68.20	-13.14	40.62	14.44	Peak		

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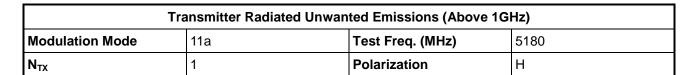
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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.

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	MHz	level dBuV/m	dBuV/m dB	reading dBuV	dB		High cm	Table deg
1	1031.00	33.42	54.00 -20.58	43.01	-9.59	Average		
2	1031.00	46.42	74.00 -27.58	56.01	-9.59	Peak		
3	5150.00	44.28	54.00 -9.72	38.57	5.71	Average		
4	5150.00	64.65	74.00 -9.35	58.94	5.71	Peak		
5	10360.00	55.08	68.20 -13.12	40.64	14.44	Peak		

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

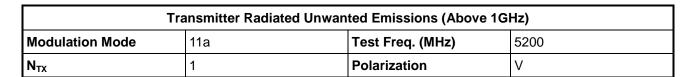
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

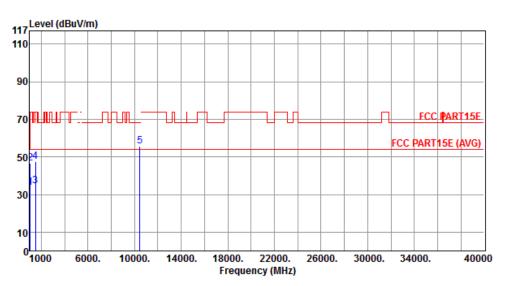
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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.

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	Freq.	Emission	Limit	Margin			Remark	ANT	Turn
		level	-ID- A//	JD.	reading				Table
	MHz	dBuV/m	abuv/m	ав	dBuV	dB		cm	deg
1	1031 00	33.61	<u> </u>	20 30	43.20	-9.59	Average		
_									
2	1031.00	46.72	74.00	-27.28	56.31	-9.59	Peak		
3	1500.00	34.43	54.00	-19.57	40.90	-6.47	Average		
4	1500.00	47.53	74.00	-26.47	54.00	-6.47	Peak		
5	10440.00	55.64	68.20	-12.56	41.07	14.57	Peak		

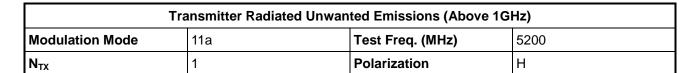
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

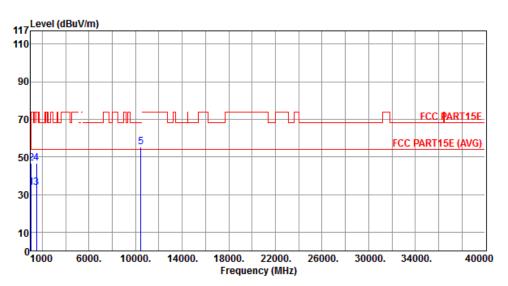
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission	Limit	Margin			Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.86	54.00	-20.14	43.45	-9.59	Average		
2	1031.00	46.75	74.00	-27.25	56.34	-9.59	Peak		
3	1500.00	33.74	54.00	-20.26	40.21	-6.47	Average		
4	1500.00	46.49	74.00	-27.51	52.96	-6.47	Peak		
5	10440.00	55.42	68.20	-12.78	40.85	14.57	Peak		

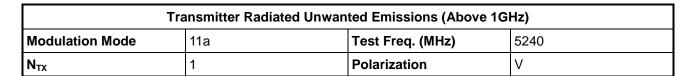
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

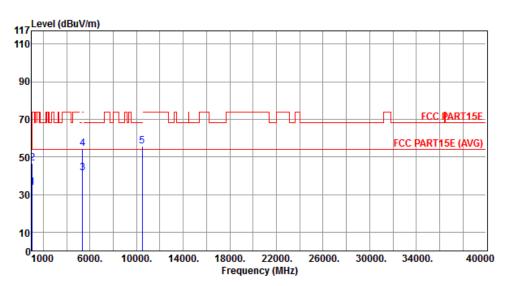
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission	Limit	Margin			Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.78	54.00	-20.22	43.37	-9.59	Average		
2	1031.00	46.62	74.00	-27.38	56.21	-9.59	Peak		
3	5350.00	41.46	54.00	-12.54	35.47	5.99	Average		
4	5350.00	54.29	74.00	-19.71	48.30	5.99	Peak		
5	10480.00	55.50	68.20	-12.70	40.87	14.63	Peak		

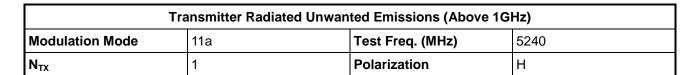
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

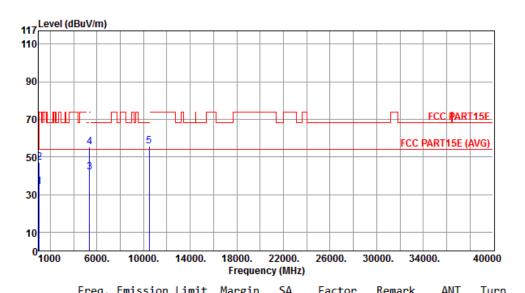
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	rreq.	level		nai gin	reading		Kelliai K	High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	34.22	54.00	-19.78	43.81	-9.59	Average		
2	1031.00	47.10	74.00	-26.90	56.69	-9.59	Peak		
3	5350.00	42.09	54.00	-11.91	36.10	5.99	Average		
4	5350.00	55.29	74.00	-18.71	49.30	5.99	Peak		
5	10480.00	55.68	68.20	-12.52	41.05	14.63	Peak		

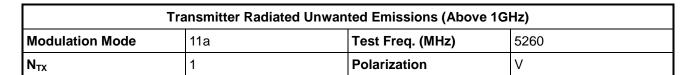
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

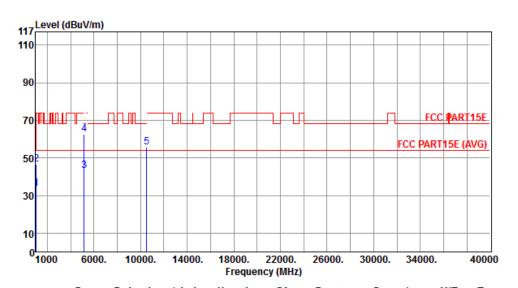
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	tmission	Limit	Margin			Kemark	ANI	Turn
	MHz	level dBuV/m	dBuV/m	dB	reading dBuV	dB		H1gn CM	Table deg
1	1031.00	33.49	54.00	-20.51	43.08	-9.59	Average		
2		46.50				-9.59	Peak		
3	5150.00	43.15	54.00 -	10.85	37.44	5.71	Average		
4	5150.00	62.55	74.00 -	-11.45	56.84	5.71	Peak		
5	10520.00	55.80	68.20 -	12.40	41.10	14.70	Peak		

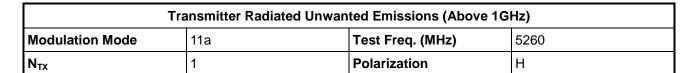
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

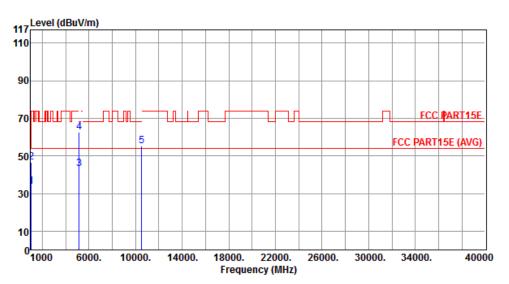
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.59	54.00	-20.41	43.18	-9.59	Average		
2	1031.00	46.78	74.00	-27.22	56.37	-9.59	Peak		
3	5150.00	43.08	54.00	-10.92	37.37	5.71	Average		
4	5150.00	62.70	74.00	-11.30	56.99	5.71	Peak		
5	10520.00	55.43	68.20	-12.77	40.73	14.70	Peak		

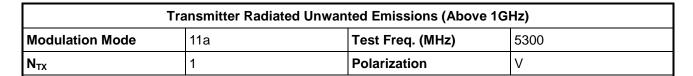
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

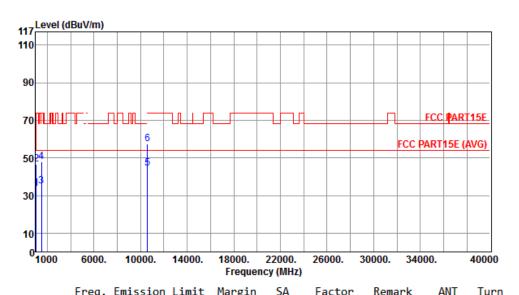
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	1104.	level	LIMIT	nui Bin	reading	ruccor	Kellidi K	High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		CM	deg
1	1031.00	33.72	54.00 -	20.28	43.31	-9.59	Average		
2	1031.00	46.59	74.00 -	27.41	56.18	-9.59	Peak		
3	1500.00	34.78	54.00 -	19.22	41.25	-6.47	Average		
4	1500.00	47.93	74.00 -	26.07	54.40	-6.47	Peak		
5	10600.00	44.55	54.00	-9.45	29.69	14.86	Average		
6	10600.00	57.27	74.00 -	16.73	42.41	14.86	Peak		

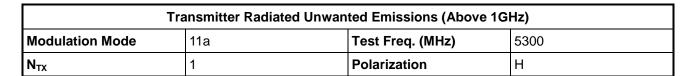
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

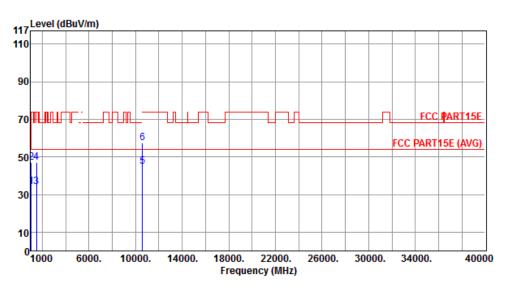
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.94	54.00	-20.06	43.53	-9.59	Average		
2	1031.00	47.13	74.00	-26.87	56.72	-9.59	Peak		
3	1500.00	34.12	54.00	-19.88	40.59	-6.47	Average		
4	1500.00	47.00	74.00	-27.00	53.47	-6.47	Peak		
5	10600.00	44.82	54.00	-9.18	29.96	14.86	Average		
6	10600.00	57.63	74.00	-16.37	42.77	14.86	Peak		

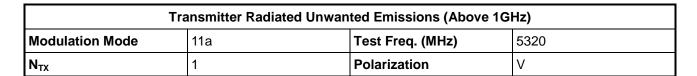
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

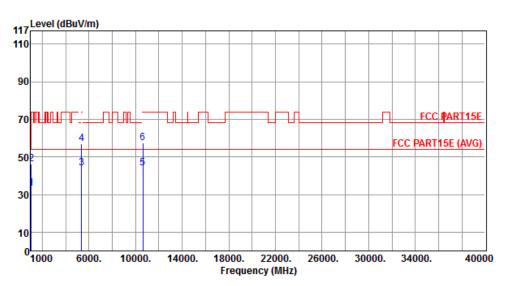
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.43	54.00	-20.57	43.02	-9.59	Average		
2	1031.00	46.28	74.00	-27.72	55.87	-9.59	Peak		
3	5350.00	43.97	54.00	-10.03	37.98	5.99	Average		
4	5350.00	57.19	74.00	-16.81	51.20	5.99	Peak		
5	10640.00	44.25	54.00	-9.75	29.30	14.95	Average		
6	10640.00	57.59	74.00	-16.41	42.64	14.95	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.)

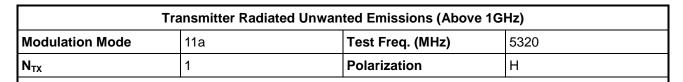
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

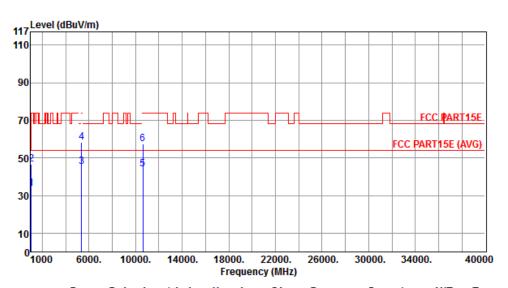
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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FCC Test Report

Report No.: FR430802-03AN





	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.88	54.00	-20.12	43.47	-9.59	Average		
2	1031.00	46.84	74.00	-27.16	56.43	-9.59	Peak		
3	5350.00	45.25	54.00	-8.75	39.26	5.99	Average		
4	5350.00	58.23	74.00	-15.77	52.24	5.99	Peak		
5	10640.00	44.17	54.00	-9.83	29.22	14.95	Average		
6	10640.00	57.27	74.00	-16.73	42.32	14.95	Peak		

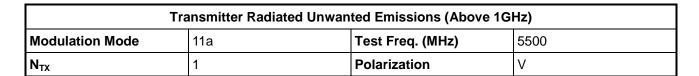
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

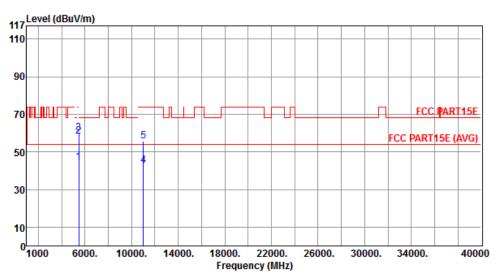
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq. MHz	Emission level dBuV/m			SA reading dBuV		Remark	ANT High cm	Turn Table deg
1	5460.00	44.42	54.00	-9.58	38.30	6.12	Average		
2	5460.00	58.30	74.00	-15.70	52.18	6.12	Peak		
3	5470.00	60.03	68.20	-8.17	53.89	6.14	Peak		
4	11000.00	42.78	54.00	-11.22	27.09	15.69	Average		
5	11000.00	55.82	74.00	-18-18	40.13	15.69	Peak		

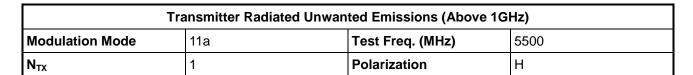
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

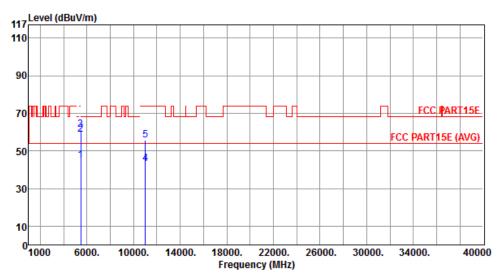
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq. 6	Emission level dBuV/m	Limit dBuV/m		SA reading dBuV		Remark	ANT High cm	Turn Table deg
1	5460.00	44.83	54.00	-9.17	38.71	6.12	Average		
2	5460.00	58.60	74.00	-15.40	52.48	6.12	Peak		
3	5470.00	61.27	68.20	-6.93	55.13	6.14	Peak		
4	11000.00	43.32	54.00	-10.68	27.63	15.69	Average		
5	11000.00	55.82	74.00	-18.18	40.13	15.69	Peak		

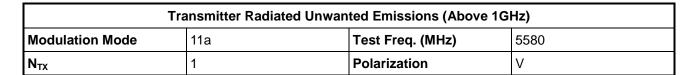
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

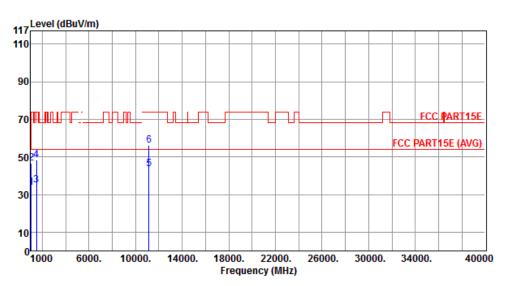
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.57	54.00	-20.43	43.16	-9.59	Average		
2	1031.00	46.58	74.00	-27.42	56.17	-9.59	Peak		
3	1500.00	34.96	54.00	-19.04	41.43	-6.47	Average		
4	1500.00	48.17	74.00	-25.83	54.64	-6.47	Peak		
5	11160.00	43.55	54.00	-10.45	28.02	15.53	Average		
6	11160.00	56.30	74.00	-17.70	40.77	15.53	Peak		

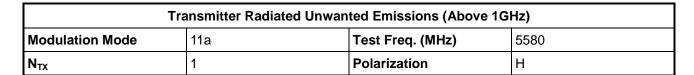
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

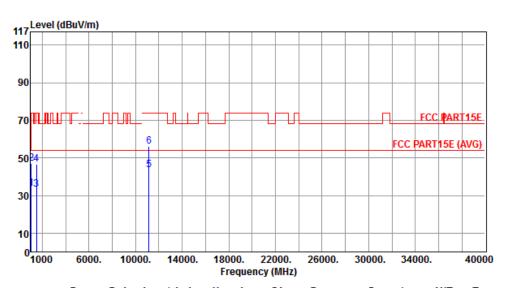
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.89	54.00	-20.11	43.48	-9.59	Average		
2	1031.00	47.10	74.00	-26.90	56.69	-9.59	Peak		
3	1500.00	33.45	54.00	-20.55	39.92	-6.47	Average		
4	1500.00	46.63	74.00	-27.37	53.10	-6.47	Peak		
5	11160.00	43.75	54.00	-10.25	28.22	15.53	Average		
6	11160.00	56.08	74.00	-17.92	40.55	15.53	Peak		

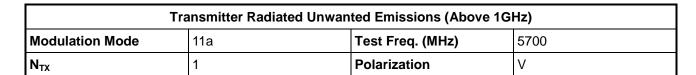
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

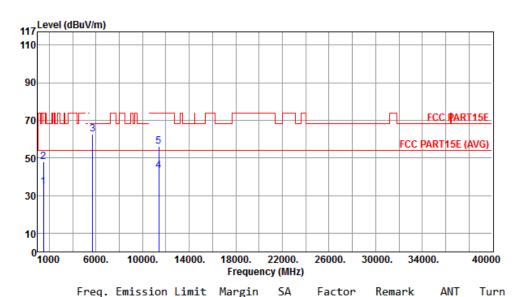
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	MHz	level dBuV/m	dBuV/m dB	reading dBuV	dB		High cm	Table deg
1	1500.00	34.66	54.00 -19.34	41.13	-6.47	Average		
2	1500.00	47.80	74.00 -26.20	54.27	-6.47	Peak		
3	5725.00	62.59	68.20 -5.61	56.00	6.59	Peak		
4	11400.00	43.28	54.00 -10.72	27.99	15.29	Average		
5	11400.00	55.92	74.00 -18.08	40.63	15.29	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.

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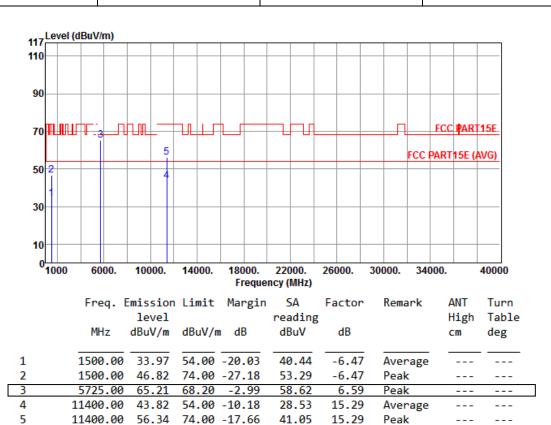
FCC Test Report

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5700

N_{TX} 1 Polarization H

Report No.: FR430802-03AN



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)

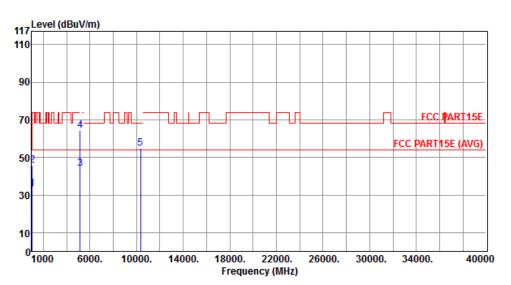
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode HT20 Test Freq. (MHz) 5180										
N _{TX}	N _{TX} 1 Polarization V									

Report No.: FR430802-03AN



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.05	54.00	-20.95	42.64	-9.59	Average		
2	1031.00	45.66	74.00	-28.34	55.25	-9.59	Peak		
3	5150.00	44.14	54.00	-9.86	38.43	5.71	Average		
4	5150.00	64.46	74.00	-9.54	58.75	5.71	Peak		
5	10360.00	54.82	68.20	-13.38	40.38	14.44	Peak		

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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.

 N_{TX}

FCC Test Report

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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5180

Polarization

Report No.: FR430802-03AN

Н



	MHz	level dBuV/m	dBuV/m dB	reading dBuV	dB		High cm	Table deg
1	1031.00	33.27	54.00 -20.73	42.86	-9.59	Average		
2	1031.00	46.18	74.00 -27.82	55.77	-9.59	Peak		
3	5150.00	44.14	54.00 -9.86	38.43	5.71	Average		
4	5150.00	64.86	74.00 -9.14	59.15	5.71	Peak		
5	10360.00	54.79	68.20 -13.41	40.35	14.44	Peak		

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

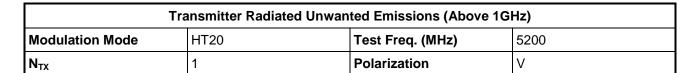
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

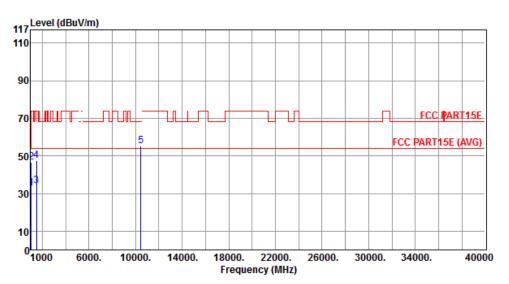
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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.

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FCC Test Report Report No.: FR430802-03AN





	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	32.73	54.00	-21.27	42.32	-9.59	Average		
2	1031.00	46.66	74.00	-27.34	56.25	-9.59	Peak		
3	1500.00	33.91	54.00	-20.09	40.38	-6.47	Average		
4	1500.00	47.46	74.00	-26.54	53.93	-6.47	Peak		
5	10440.00	55.10	68.20	-13.10	40.53	14.57	Peak		

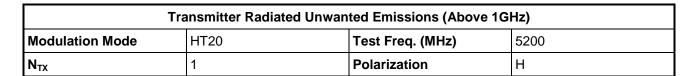
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

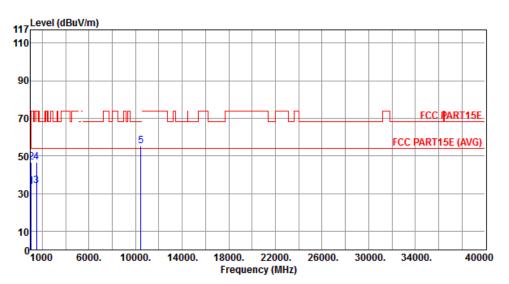
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission	Limit	Margin			Remark	ANT	Turn
	MHz	level dBuV/m	dBuV/m	dB	reading dBuV	dB		High cm	Table deg
	11112	ubuv/III	ubuv/iii	ub	ubuv	ub		CIII	ueg
1	1031.00	33.67	54.00	-20.33	43.26	-9.59	Average		
2	1031.00	46.57	74.00	-27.43	56.16	-9.59	Peak		
3	1500.00	33.91	54.00	-20.09	40.38	-6.47	Average		
4	1500.00	46.48	74.00	-27.52	52.95	-6.47	Peak		
5	10440.00	55.31	68.20	-12.89	40.74	14.57	Peak		

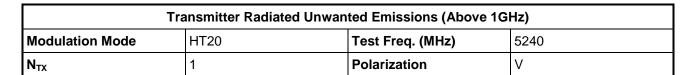
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

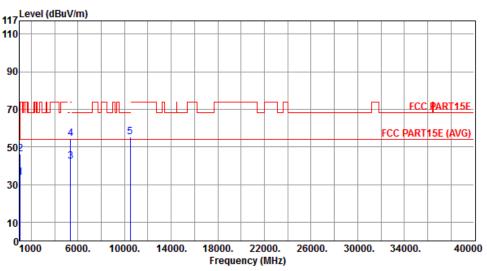
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m		SA reading dBuV		Remark	ANT High cm	Turn Table deg
1	1031.00	33.54	54.00	-20.46	43.13	-9.59	Average		
2	1031.00	46.40	74.00	-27.60	55.99	-9.59	Peak		
3	5350.00	42.20	54.00	-11.80	36.21	5.99	Average		
4	5350.00	54.51	74.00	-19.49	48.52	5.99	Peak		
5	10480.00	55.18	68.20	-13.02	40.55	14.63	Peak		

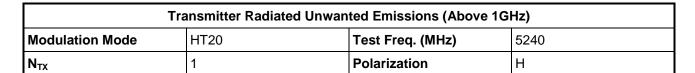
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

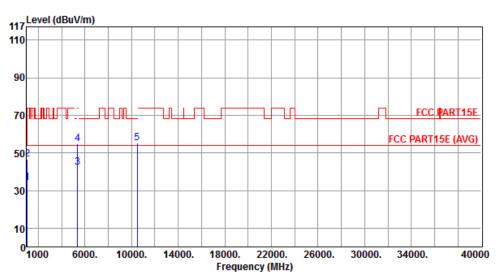
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.95	54.00	-20.05	43.54	-9.59	Average		
2	1031.00	46.63	74.00	-27.37	56.22	-9.59	Peak		
3	5350.00	42.34	54.00	-11.66	36.35	5.99	Average		
4	5350.00	55.01	74.00	-18.99	49.02	5.99	Peak		
5	10480.00	55.08	68.20	-13.12	40.45	14.63	Peak		

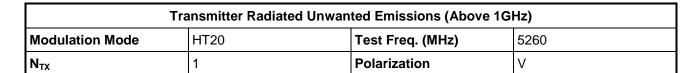
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

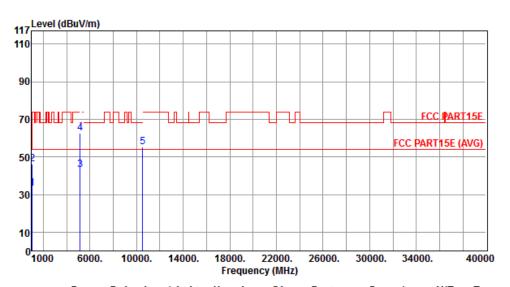
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.28	54.00	-20.72	42.87	-9.59	Average		
2	1031.00	46.13	74.00	-27.87	55.72	-9.59	Peak		
3	5150.00	43.19	54.00	-10.81	37.48	5.71	Average		
4	5150.00	62.46	74.00	-11.54	56.75	5.71	Peak		
5	10520.00	55.24	68.20	-12.96	40.54	14.70	Peak		

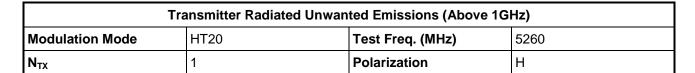
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

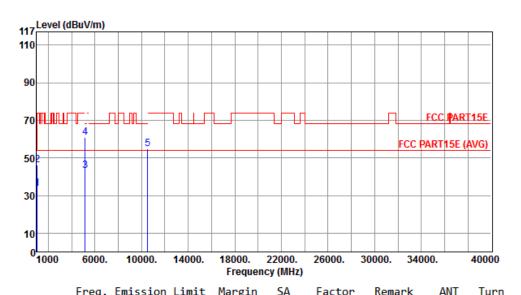
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	rreq.	level		riai Bin	reading		Kellidi K	High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.60	54.00	-20.40	43.19	-9.59	Average		
2	1031.00	46.25	74.00	-27.75	55.84	-9.59	Peak		
3	5150.00	43.12	54.00	-10.88	37.41	5.71	Average		
4	5150.00	60.92	74.00	-13.08	55.21	5.71	Peak		
5	10520.00	54.95	68.20	-13.25	40.25	14.70	Peak		

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

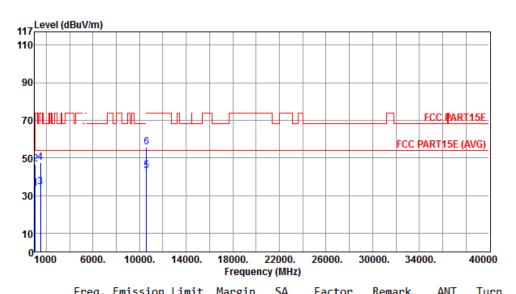
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode HT20 Test Freq. (MHz) 5300								
N _{TX} 1 Polarization V									



	Freq.	level	Limit	Margin	reading		Kemark	ANI High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.62	54.00	-20.38	43.21	-9.59	Average		
2	1031.00	46.54	74.00	-27.46	56.13	-9.59	Peak		
3	1500.00	34.41	54.00	-19.59	40.88	-6.47	Average		
4	1500.00	47.50	74.00	-26.50	53.97	-6.47	Peak		
5	10600.00	43.22	54.00	-10.78	28.36	14.86	Average		
6	10600.00	55.65	74.00	-18.35	40.79	14.86	Peak		

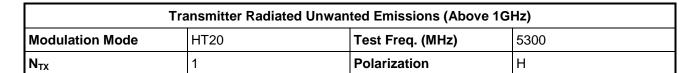
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

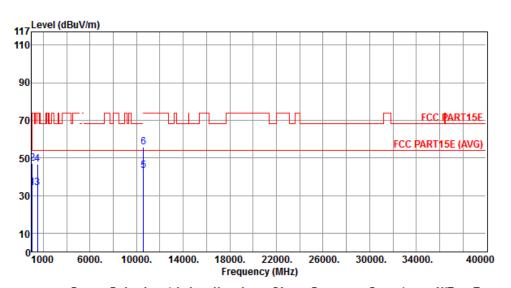
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission	Limit	Margin		Factor	Remark	ANT	Turn
	MHz	level dBuV/m	dBuV/m	dB	reading dBuV	dB		High cm	Table deg
1	1031.00	34.05	54.00	-19.95	43.64	-9.59	Average		
2	1031.00	46.93	74.00	-27.07	56.52	-9.59	Peak		
3	1500.00	33.97	54.00	-20.03	40.44	-6.47	Average		
4	1500.00	46.74	74.00	-27.26	53.21	-6.47	Peak		
5	10600.00	43.02	54.00	-10.98	28.16	14.86	Average		
6	10600.00	55.70	74.00	-18.30	40.84	14.86	Peak		

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

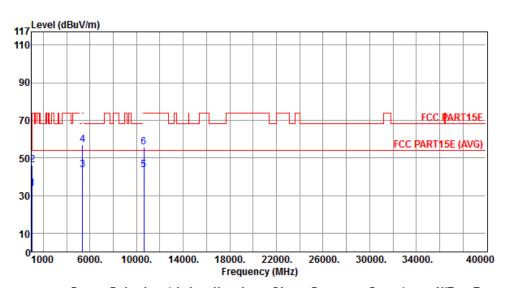
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	HT20	Test Freq. (MHz)	5320					
N _{TX}	1	Polarization	V					



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.58	54.00	-20.42	43.17	-9.59	Average		
2	1031.00				55.68	-9.59	Peak		
3	5350.00	43.82	54.00	-10.18	37.83	5.99	Average		
4	5350.00	56.85	74.00	-17.15	50.86	5.99	Peak		
5	10640.00	43.58	54.00	-10.42	28.63	14.95	Average		
6	10640.00	55.79	74.00	-18.21	40.84	14.95	Peak		

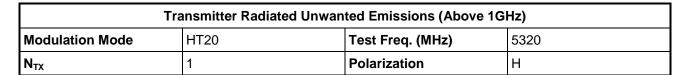
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

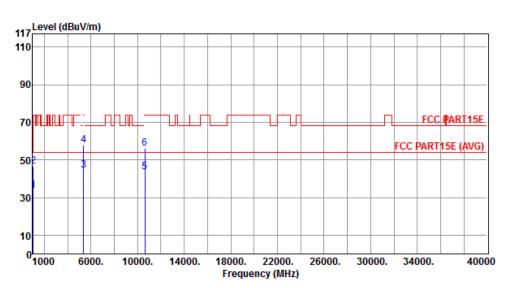
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.73	54.00	-20.27	43.32	-9.59	Average		
2	1031.00	46.60	74.00	-27.40	56.19	-9.59	Peak		
3	5350.00	44.62	54.00	-9.38	38.63	5.99	Average		
4	5350.00	57.77	74.00	-16.23	51.78	5.99	Peak		
5	10640.00	43.59	54.00	-10.41	28.64	14.95	Average		
6	10640.00	55.98	74.00	-18.02	41.03	14.95	Peak		

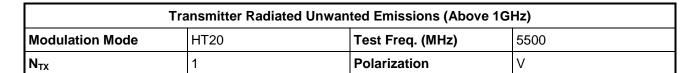
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

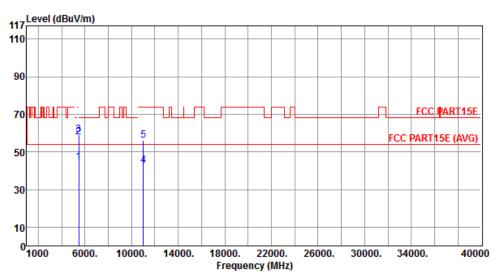
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq. 8	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		CM	deg
1	5460.00	44.57	54.00	-9.43	38.45	6.12	Average		
2	5460.00	58.00	74.00	-16.00	51.88	6.12	Peak		
3	5470.00	59.15	68.20	-9.05	53.01	6.14	Peak		
4	11000.00	42.85	54.00	-11.15	27.16	15.69	Average		
5	11000.00	55.93	74.00	-18.07	40.24	15.69	Peak		

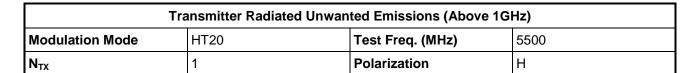
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

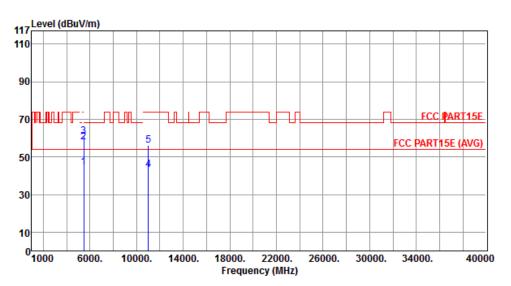
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5460.00	44.56	54.00	-9.44	38.44	6.12	Average		
2	5460.00	57.79	74.00	-16.21	51.67	6.12	Peak		
3	5470.00	60.85	68.20	-7.35	54.71	6.14	Peak		
4	11000.00	43.24	54.00	-10.76	27.55	15.69	Average		
5	11000.00	55.93	74.00	-18.07	40.24	15.69	Peak		

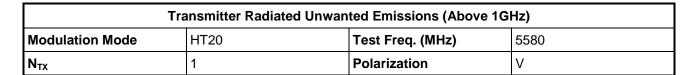
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

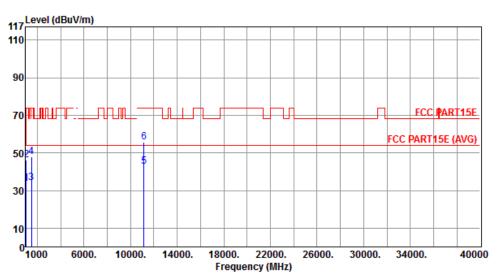
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ü	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1031.00	33.63	54.00	-20.37	43.22	-9.59	Average		
2	1031.00	46.20	74.00	-27.80	55.79	-9.59	Peak		
3	1500.00	34.11	54.00	-19.89	40.58	-6.47	Average		
4	1500.00	47.84	74.00	-26.16	54.31	-6.47	Peak		
5	11160.00	42.88	54.00	-11.12	27.35	15.53	Average		
6	11160.00	55.77	74.00	-18.23	40.24	15.53	Peak		

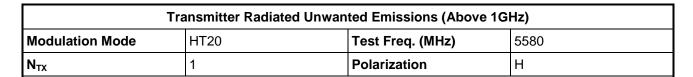
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

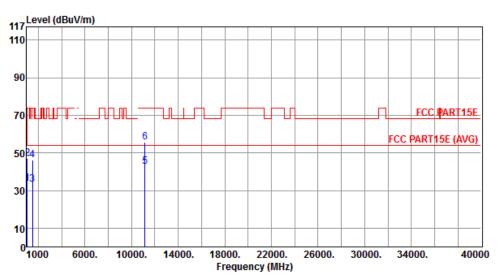
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	J	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1031.00	33.73	54.00	-20.27	43.32	-9.59	Average		
2	1031.00	46.99	74.00	-27.01	56.58	-9.59	Peak		
3	1500.00	33.35	54.00	-20.65	39.82	-6.47	Average		
4	1500.00	46.31	74.00	-27.69	52.78	-6.47	Peak		
5	11160.00	42.86	54.00	-11.14	27.33	15.53	Average		
6	11160.00	55.80	74.00	-18.20	40.27	15.53	Peak		

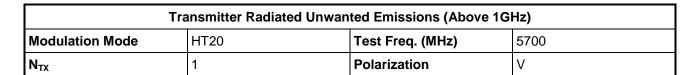
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

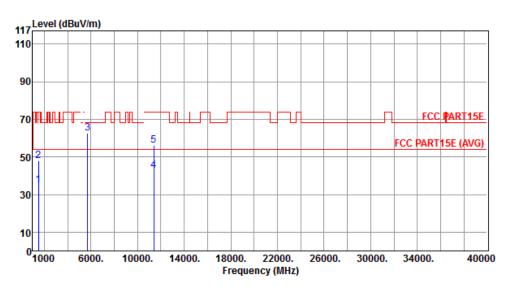
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.86	54.00	-19.14	41.33	-6.47	Average		
2	1500.00	47.88	74.00	-26.12	54.35	-6.47	Peak		
3	5725.00	62.51	68.20	-5.69	55.92	6.59	Peak		
4	11400.00	42.74	54.00	-11.26	27.45	15.29	Average		
5	11400.00	56.07	74.00	-17.93	40.78	15.29	Peak		

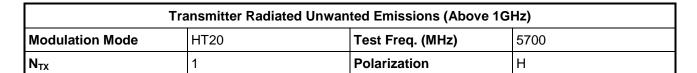
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

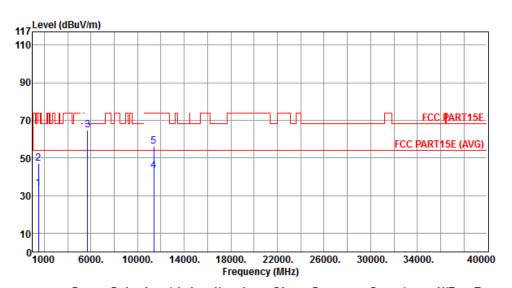
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	33.82	54.00	-20.18	40.29	-6.47	Average		
2	1500.00	46.90	74.00	-27.10	53.37	-6.47	Peak		
3	5725.00	64.75	68.20	-3.45	58.16	6.59	Peak		
4	11400.00	43.14	54.00	-10.86	27.85	15.29	Average		
5	11400.00	56.08	74.00	-17.92	40.79	15.29	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)

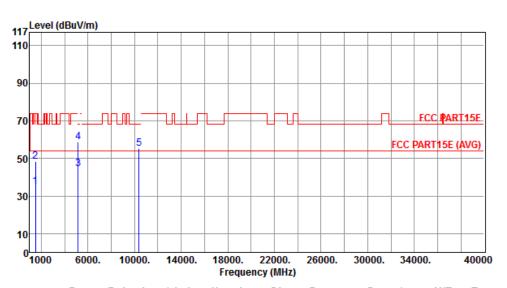
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

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

Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	HT40	Test Freq. (MHz)	5190					
N _{TX}	1	Polarization	V					

Report No.: FR430802-03AN



	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.84	54.00	-19.16	41.31	-6.47	Average		
2	1500.00	48.20	74.00	-25.80	54.67	-6.47	Peak		
3	5150.00	44.51	54.00	-9.49	38.80	5.71	Average		
4	5150.00	58.78	74.00	-15.22	53.07	5.71	Peak		
5	10380.00	55.24	68.20	-12.96	40.78	14.46	Peak		

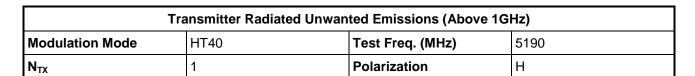
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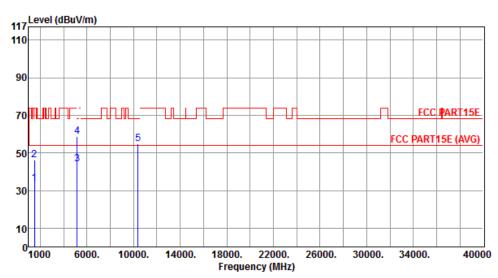
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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.





	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	33.74	54.00	-20.26	40.21	-6.47	Average		
2	1500.00	46.31	74.00	-27.69	52.78	-6.47	Peak		
3	5150.00	44.08	54.00	-9.92	38.37	5.71	Average		
4	5150.00	58.71	74.00	-15.29	53.00	5.71	Peak		
5	10380.00	55.00	68.20	-13.20	40.54	14.46	Peak		

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

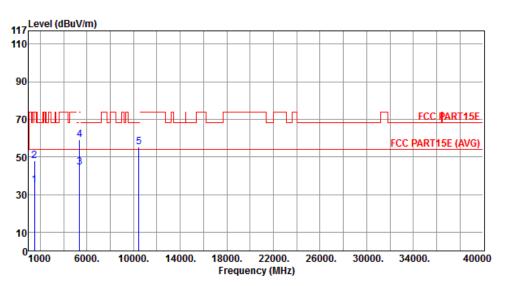
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)							
Modulation Mode	HT40	Test Freq. (MHz)	5230				
N _{TX}	1	Polarization	V				



	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.97	54.00	-19.03	41.44	-6.47	Average		
2	1500.00	48.11	74.00	-25.89	54.58	-6.47	Peak		
3	5350.00	44.40	54.00	-9.60	38.41	5.99	Average		
4	5350.00	59.14	74.00	-14.86	53.15	5.99	Peak		
5	10460.00	55.17	68.20	-13.03	40.57	14.60	Peak		

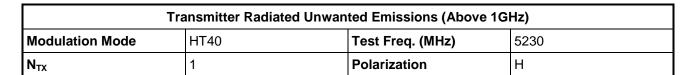
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

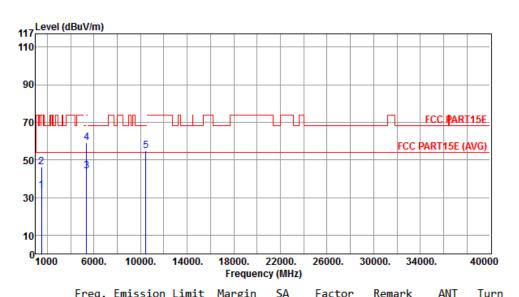
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	1124.	level	LIMIL	riai Bin	reading		Kellul K	High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500 00	33.71	54 00	-20 29	10 18	-6.47	Average		
2		46.17			52.64	-6.47	Peak		
3	5350.00	44.23	54.00	-9.77	38.24	5.99	Average		
4	5350.00	58.97	74.00	-15.03	52.98	5.99	Peak		
5	10460.00	54.97	68.20	-13.23	40.37	14.60	Peak		

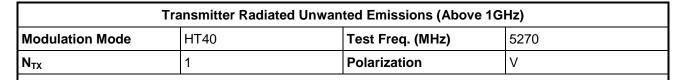
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

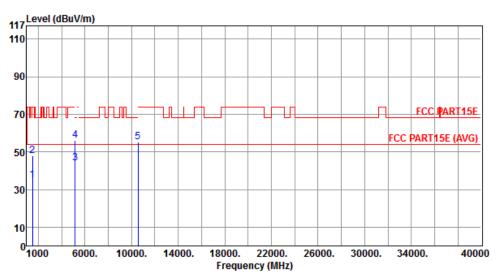
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq. 6 MHz	Emission level dBuV/m		Ū	SA reading dBuV		Remark	ANT High cm	Turn Table deg
1	1500.00	34.77	54.00	-19.23	41.24	-6.47	Average		
2	1500.00	47.88	74.00	-26.12	54.35	-6.47	Peak		
3	5150.00	43.94	54.00	-10.06	38.23	5.71	Average		
4	5150.00	56.03	74.00	-17.97	50.32	5.71	Peak		
5	10540.00	55.15	68.20	-13.05	40.40	14.75	Peak		

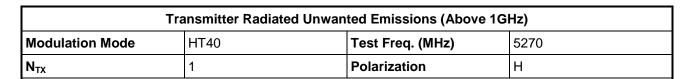
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

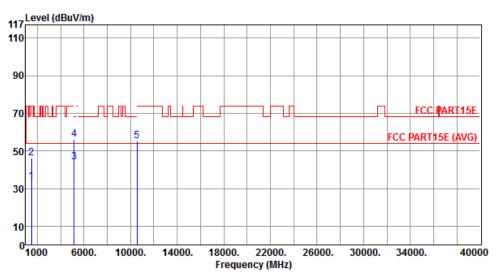
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ü	SA reading dBuV		Remark	ANT High cm	Turn Table deg
1	1500.00	33.74	54.00	-20.26	40.21	-6.47	Average		
2	1500.00	46.16	74.00	-27.84	52.63	-6.47	Peak		
3	5150.00	43.92	54.00	-10.08	38.21	5.71	Average		
4	5150.00	56.21	74.00	-17.79	50.50	5.71	Peak		
5	10540.00	55.07	68.20	-13.13	40.32	14.75	Peak		

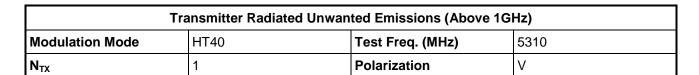
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

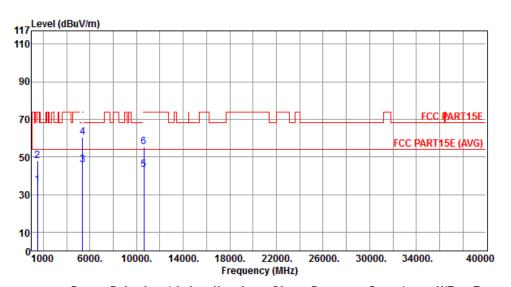
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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level reading dBuV/m dB dBuV dB cm deg 1 1500.00 34.91 54.00 -19.09 41.38 -6.47 Average 2 1500.00 47.78 74.00 -26.22 54.25 -6.47 Peak 3 5350.00 45.79 54.00 -8.21 39.80 5.99 Average 4 5350.00 60.59 74.00 -13.41 54.60 5.99 Peak 5 10620.00 43.07 54.00 -10.93 28.17 14.90 Average 6 10620.00 55.32 74.00 -18.68 40.42 14.90 Peak		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
1 1500.00 34.91 54.00 -19.09 41.38 -6.47 Average 2 1500.00 47.78 74.00 -26.22 54.25 -6.47 Peak 3 5350.00 45.79 54.00 -8.21 39.80 5.99 Average 4 5350.00 60.59 74.00 -13.41 54.60 5.99 Peak 5 10620.00 43.07 54.00 -10.93 28.17 14.90 Average			level			reading			High	Table
2 1500.00 47.78 74.00 -26.22 54.25 -6.47 Peak 3 5350.00 45.79 54.00 -8.21 39.80 5.99 Average 4 5350.00 60.59 74.00 -13.41 54.60 5.99 Peak 5 10620.00 43.07 54.00 -10.93 28.17 14.90 Average		MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
3 5350.00 45.79 54.00 -8.21 39.80 5.99 Average 4 5350.00 60.59 74.00 -13.41 54.60 5.99 Peak 5 10620.00 43.07 54.00 -10.93 28.17 14.90 Average	1	1500.00	34.91	54.00	-19.09	41.38	-6.47	Average		
4 5350.00 60.59 74.00 -13.41 54.60 5.99 Peak 5 10620.00 43.07 54.00 -10.93 28.17 14.90 Average	2	1500.00	47.78	74.00	-26.22	54.25	-6.47	Peak		
5 10620.00 43.07 54.00 -10.93 28.17 14.90 Average	3	5350.00	45.79	54.00	-8.21	39.80	5.99	Average		
	4	5350.00	60.59	74.00	-13.41	54.60	5.99	Peak		
6 10620.00 55.32 74.00 -18.68 40.42 14.90 Peak	5	10620.00	43.07	54.00	-10.93	28.17	14.90	Average		
	6	10620.00	55.32	74.00	-18.68	40.42	14.90	Peak		

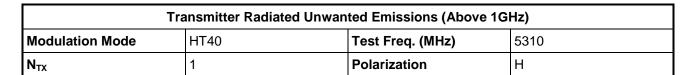
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

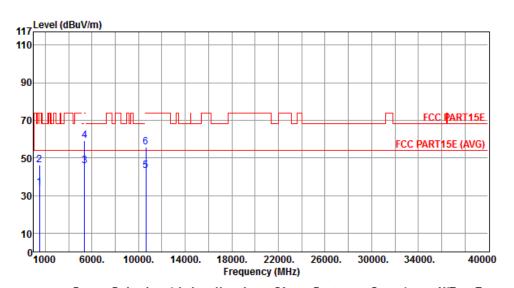
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	33.90	54.00	-20.10	40.37	-6.47	Average		
2	1500.00	46.21	74.00	-27.79	52.68	-6.47	Peak		
3	5350.00	45.60	54.00	-8.40	39.61	5.99	Average		
4	5350.00	59.28	74.00	-14.72	53.29	5.99	Peak		
5	10620.00	43.12	54.00	-10.88	28.22	14.90	Average		
6	10620.00	55.49	74.00	-18.51	40.59	14.90	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.

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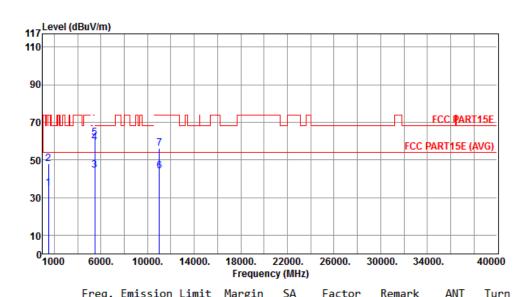
FCC Test Report

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5510

N_{TX} 1 Polarization V

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	11 64.	LIIITAATOII	LIMIT	mai Sin	7	I ac coi	Iteliidi K	CIVI	I WI II
		level			reading			High	Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		CM	deg
_	4500.00								
1	1500.00	35.06	54.00 -	18.94	41.53	-6.47	Average		
2	1500.00	47.77	74.00 -	26.23	54.24	-6.47	Peak		
3	5460.00	44.42	54.00	-9.58	38.30	6.12	Average		
4	5460.00	59.30	74.00 -	14.70	53.18	6.12	Peak		
5	5470.00	61.70	68.20	-6.50	55.56	6.14	Peak		
6	11020.00	43.98	54.00 -	10.02	28.32	15.66	Average		
7	11020.00	56.24	74.00 -	17.76	40.58	15.66	Peak		

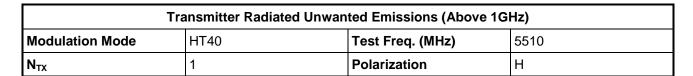
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

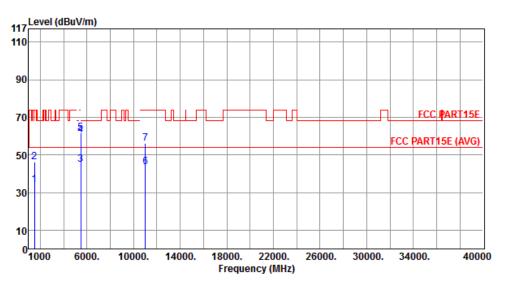
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1500.00	34.04	54.00	-19.96	40.51	-6.47	Average		
2	1500.00	46.21	74.00	-27.79	52.68	-6.47	Peak		
3	5460.00	44.72	54.00	-9.28	38.60	6.12	Average		
4	5460.00	60.31	74.00	-13.69	54.19	6.12	Peak		
5	5470.00	61.86	68.20	-6.34	55.72	6.14	Peak		
6	11020.00	43.82	54.00	-10.18	28.16	15.66	Average		
7	11020.00	56.12	74.00	-17.88	40.46	15.66	Peak		

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

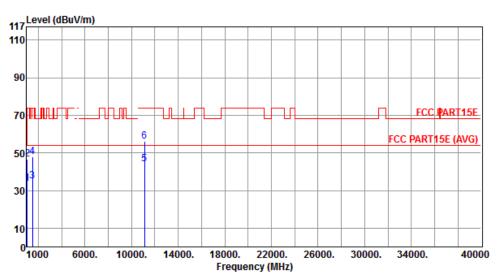
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode HT40 Test Freq. (MHz) 5550								
N _{TX} 1 Polarization V									



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	J	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1031.00	33.74	54.00	-20.26	43.33	-9.59	Average		
2	1031.00	46.83	74.00	-27.17	56.42	-9.59	Peak		
3	1500.00	34.98	54.00	-19.02	41.45	-6.47	Average		
4	1500.00	47.84	74.00	-26.16	54.31	-6.47	Peak		
5	11100.00	44.13	54.00	-9.87	28.54	15.59	Average		
6	11100.00	56.16	74.00	-17.84	40.57	15.59	Peak		

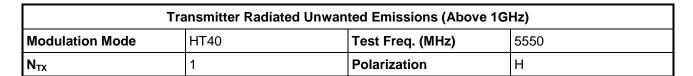
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

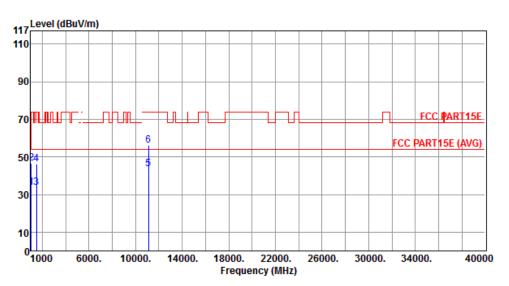
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	1031.00	33.67	54.00	-20.33	43.26	-9.59	Average		
2	1031.00	46.81	74.00	-27.19	56.40	-9.59	Peak		
3	1500.00	33.87	54.00	-20.13	40.34	-6.47	Average		
4	1500.00	46.00	74.00	-28.00	52.47	-6.47	Peak		
5	11100.00	43.75	54.00	-10.25	28.16	15.59	Average		
6	11100.00	55.97	74.00	-18.03	40.38	15.59	Peak		

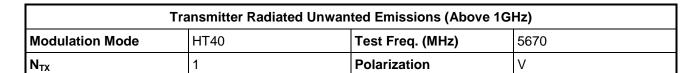
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

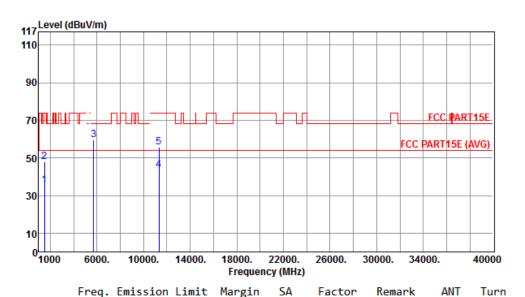
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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	MHz	level dBuV/m	dBuV/m dB	reading dBuV	dB		High cm	Table deg
1	1500.00	35.21	54.00 -18.79	41.68	-6.47	Average		
2	1500.00	48.08	74.00 -25.92	54.55	-6.47	Peak		
3	5725.00	59.78	68.20 -8.42	53.19	6.59	Peak		
4	11340.00	43.66	54.00 -10.34	28.31	15.35	Average		
5	11340.00	55.89	74.00 -18.11	40.54	15.35	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.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode HT40 Test Freq. (MHz) 5670								
N _{TX} 1 Polarization H									

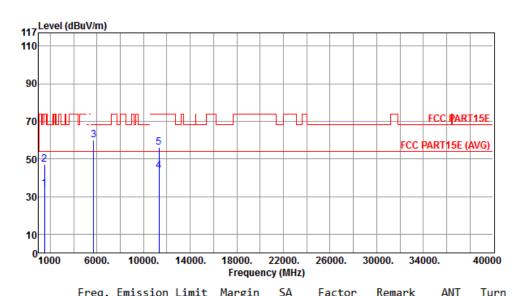


Table
deg

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.

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3.7 Frequency Stability

3.7.1 Frequency Stability Limit

	Frequency Stability Limit						
UN	II Devices						
\boxtimes	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.						
LE-	-LAN Devices						
\boxtimes	N/A						
IEE	E Std. 802.11n-2009						
\boxtimes	The transmitter center frequency tolerance shall be \pm 20 ppm maximum for the 5 GHz band and \pm 25 ppm maximum for the 2.4 GHz band.						

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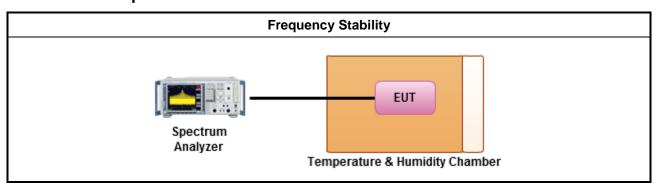
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

	Test Method
\boxtimes	Refer as ANSI C63.10, clause 6.8 for frequency stability tests
	Frequency stability with respect to ambient temperature
	Frequency stability when varying supply voltage
\boxtimes	For conducted measurement.
	For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs)
	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

3.7.4 Test Setup



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3.7.5 Test Result of Frequency Stability

Frequency Stability Result					
Мо	de	Frequency Stability (ppm)			
Condition	Freq. (MHz)	IHz) Test Frequency (MHz)	Frequency Stability (ppm)		
T _{20°C} Vmax	5320	5319.99352	-1.2180		
T _{20°C} Vmin	5320	5320.00855	1.6071		
T _{55°C} Vnom	5320	5320.00739	1.3891		
T _{50°C} Vnom	5320	5320.00515	0.9680		
T _{40°C} Vnom	5320	5319.99487	-0.9643		
T _{30°C} Vnom	5320	5320.00184	0.3459		
T _{20°C} Vnom	5320	5320.00256	0.4812		
T _{10°C} Vnom	5320	5320.00488	0.9173		
T _{0°C} Vnom	5320	5320.00257	0.4831		
T _{-10°C} Vnom	5320	5320.00643	1.2086		
T _{-20°C} Vnom	5320	5320.01931	3.6297		
T _{-30°C} Vnom	5320	5320.01585	2.9793		
Limit (ppm)		20		
Result		Con	nplied		

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Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. Note 2: The nominal voltage refer test report clause 1.1.6 for EUT operational condition.

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4 Test Equipment and Calibration Data

Test Item	Conducted Emission					
Test Site	Conduction room 1 / (CO01-WS)					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until	
EMC Receiver	R&S	ESCS 30	100169	Oct. 15, 2013	Oct. 14, 2014	
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014	
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014	
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 24, 2013	Apr. 23, 2014	
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014	
Note: Calibration Inte	rval of instruments liste	d above is one year.				

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Test Item	Radiated Emission					
Test Site	966 chamber 2 / (03CH02-WS)					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until	
Spectrum Analyzer	R&S	FSV40	101499	Feb. 08, 2014	Feb. 07, 2015	
Receiver	R&S	ESR3	101657	Jan. 18,2014	Jan. 17, 2015	
Bilog Antenna	ScHwarzbeck	VULB9168	VULB9168-524	Jan. 08, 2014	Jan. 07, 2015	
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1095	Jan. 07, 2014	Jan. 06, 2015	
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014	
Amplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014	
Amplifier	Agilent	83017A	MY39501309	Dec. 09, 2013	Dec. 08, 2014	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 17, 2013	Dec. 16, 2014	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 17, 2013	Dec. 16, 2014	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 17, 2013	Dec. 16, 2014	
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-003	Dec. 17, 2013	Dec. 16, 2014	
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-004	Dec. 17, 2013	Dec. 16, 2014	
control	EM Electronics	EM1000	060608	N/A	N/A	
Note: Calibration Inter-	val of instruments listed	above is one year.				

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014	
Amplifier	EM	EM18G40G	060572	Jun. 20, 2013	Jun. 19, 2015	
Note: Calibration Interval of instruments listed above is two year.						

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Test Item Test Site Instrument	RF Conducted						
	TH01-HY						
	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until		
Spectrum Analyzer	R&S	FSV 40	101013	Jan. 25, 2014	Jan. 24, 2015		
AC Power Source	G.W	APS-9102	EL920581	Jul. 16, 2013	Jul. 15, 2014		
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	Nov. 20, 2013	Nov. 19, 2014		
Signal Generator	R&S	SMR40	100116	Jun. 27, 2013	Jun. 26, 2014		
Power Sensor	Anritsu	MA2411B	0917017	Jan. 28, 2014	Jan. 27, 2015		
Power Meter	Anritsu	ML2495A	0949003	Jan. 28, 2014	Jan. 27, 2015		
RF Cable-2m	HUBER+SUHNER	SUCOFLEX_104	SN 345675/4	Dec. 02, 2013	Dec. 01, 2014		
RF Cable-3m	HUBER+SUHNER	SUCOFLEX_104	SN 345669/4	Dec. 02, 2013	Dec. 01, 2014		

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