

TEST REPORT

No.I22N01654-WLAN 5GHz

for

Hisense International Co., Ltd.

Mobile phone

Model Name: HLTE239E

with

Hardware Version: FS301-MB-V1.0

Software Version: Hisense_HLTE239E_01_S01_01_05_MX05

FCC ID: 2ADOBHLTE239E

Issued Date: 2022-09-22

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

Test Laboratory:

SAICT, Shenzhen Academy of Information and Communications Technology

Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China 518000.

Tel:+86(0)755-33322000, Fax:+86(0)755-33322001

Email: yewu@caict.ac.cn. www.saict.ac.cn

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1. Summary of Test Report

1.1. Test Items

Product Name	Mobile phone
Model Name	HLTE239E
Applicant's name	Hisense International Co., Ltd.
Manufacturer's Name	Hisense Communications Co., Ltd.

1.2. Test Standards

FCC Part15-2019; FCC 06-96-2006; ANSI C63.10-2013; KDB789033-V02r01; KDB 905462-D02.

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date:	2022-08-12
Testing End Date:	2022-09-21

1.6. Signature

Lin Zechuang (Prepared this test report)

An Ran (Reviewed this test report)

Zhang Bojun (Approved this test report)

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2. Client Information

2.1. Applicant Information

Company Name:	Hisense International Co., Ltd.
Address:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China
Contact Person	Yu Jingchao
E-Mail	yujingchao@hisense.com
Telephone:	15311226475
Fax:	/

2.2. Manufacturer Information

Company Name:	Hisense Communications Co., Ltd.
Address:	No.218, Qianwangang Road, Economic and Technological Development
Address.	Zone, Qingdao, Shandong Province,China
Contact Person	Yu Jingchao
E-Mail	yujingchao@hisense.com
Telephone:	15311226475
Fax:	1



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Product Name	Mobile phone	
Model Name	HLTE239E	
RF Protocol	IEEE 802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80	
RLAN Frequency Range	ISM Bands: 5150MHz~5250MHz;	
	5250MHz~5350MHz;	
	5470MHz~5725MHz;	
	5725MHz~5850MHz.	
Type of modulation	OFDM	
Antenna Type	Integrated antenna	
Antenna Gain	-0.41dBi	
Power Supply	3.85V DC by Battery	
FCC ID	2ADOBHLTE239E	
Device Type (DFS)	Client without radar detection (only support client mode)	
Condition of EUT as received	No abnormality in appearance	

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
	868551060006114	FS301-MB-V1.0	Hisense_HLTE239E_0	2022-08-04
UT07aa	00000100000114	F3301-IVID-V1.0	1_S01_01_05_MX05	2022-00-04
UT12aa	865269060000358	FS301-MB-V1.0	Hisense_HLTE239E_0	2022-08-04
UTIZAA	80320900000338	F3301-IVID-V1.0	1_S01_01_05_MX05	2022-00-04

*EUT ID: is used to identify the test sample in the lab internally.

UT07aa is used for conduction test, UT12aa is used for radiation test and AC Power line Conducted Emission test.

3.3. Internal Identification of AE

AE ID*	Description	AE ID*
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/
AE4	Headset	/

AE1

Model	LPN385400B
Manufacturer	Shenzhen Aerospac Electronic CO.,Ltd.
Capacity	4000mAh
Nominal Voltage	3.85V

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AE2	
Model	PA-46050200UU
Manufacturer	SHENZHEN TIANYIN ELECTRONICS CO., LTD
AE3	
Model	KS228D
Manufacturer	Dongguan Keling Electronic Technology Co., Ltd.
AE4	
Model	KS232D
Manufacturer	Dongguan Keling Electronic Technology Co., Ltd.

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of Mobile Phone with integrated antenna and battery. It consists of normal options: Lithium Battery, Charger, USB Cable and Headset. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the client.



4. <u>REFERENCE DOCUMENTS</u>

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47,Part 15,Subpart C	2019
	FCC CFR 47,Part 15,Subpart E	
FCC 06-96	Revision of Parts 2 and 15 of the Commission's Rules to	2006
	Permit Unlicensed National Information Infrastructure	
	(U-NII) devices in the 5 GHz band	
ANSI C63.10	American National Standard of Procedures for Compliance	2013
	Testing of Unlicensed Wireless Devices	
KDB 789033	GUIDELINES FOR COMPLIANCE TESTING OF	V02r01
	UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE	
	(U-NII) DEVICES PART 15, SUBPART E	
KDB 905462	Compliance Measurement Procedures for Unlicensed-national	D02
	Information Infrastructure Devices Operating in the 5250-5350	
	MHz and 5470-5725 MHz Bands Incorporating Dynamic	
	Frequency Selection	



5. <u>Test Results</u>

5.1. <u>Testing Environment</u>

Normal Temperature:	15~35°C
Relative Humidity:	20~75%

5.2. Test Results

No.	Test cases	Sub-clause of Part15E	Verdict
0	Maximum Output Power	15.407(a)	Р
1	Power Spectral Density	15.407(a)	Р
2	Occupied 26dB Bandwidth	15.403(i)	1
3	Occupied 6dB Bandwidth	15.407(e)	Р
4	99% Occupied Bandwidth	15.403	1
5	Dynamic Frequency Selection	15.407 (h)	Р
6	Band edge compliance	15.209	Р
7	Radiated Spurious Emissions	15.209	Р
8	AC Power line Conducted	15.207	Р
9	Transmit Power Control	15.407	NA

See ANNEX A for details.

Note: According to the definition of the application description, the device will automatically discontinue transmission in case of either absence of information to transmit or operational failure.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.



6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2022-12-29	1 year
2	Power Sensor	U2021XA	MY55430013	Keysight	2022-12-29	1 year
3	Data Acquisiton	U2531A	TW55443507	Keysight	/	/
4	RF Control Unit	JS0806-2	21C8060398	Tonscend	2023-05-08	1 year
5	Vector Signal General	SMU200A	104096	Rohde & Schwarz	2022-12-29	1 year
6	Shielding Room	S81	/	ETS-Lindgren	2022-11-14	3 years
7	Test Receiver	ESCI	100701	Rohde & Schwarz	2023-08-07	1 year
8	LISN	ENV216	102067	Rohde & Schwarz	2023-07-14	1 year
No.	Equipment	Model	FCC ID	Manufacturer	Calibration Due date	Calibration Period
9	Master AP	RT-AX86U	MSQ-RTAXI600	ASUS	1	/

Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Loop Antenna	HLA6120	35779	TESEQ	2024-03-24	3 years
2	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2025-03-25	3 years
4	Horn Antenna	QSH-SL-18 -26-S-20	17013	Q-par	2023-01-06	3 years
5	Horn Antenna	QSH-SL-8- 26-40-K-20	17014	Q-par	2023-01-06	3 years
6	Test Receiver	ESR7	101676	Rohde & Schwarz	2022-11-24	1 year
7	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2023-01-12	1 year
8	Fully Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years

Test software

No.	Equipment	Manufacturer	Version
1	JS1120-3	Tonscend	3.2
2	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal. The EUT was programmed to be in continuously transmitting mode.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren ©Copyright. All rights reserved by SAICT.



7. Laboratory Environment

Semi-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω

Fully-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	\leq 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



8. <u>Measurement Uncertainty</u>

Test Name	Uncertain	ity (<i>k</i> =2)
1. Maximum output Power	1.36	dB
2. Peak Power Spectral Density	1.36	dB
3. Occupied 26dB Bandwidth	4.56	(Hz
4. Occupied 6dB Bandwidth	4.56	(Hz
5. 99% Occupied Bandwidth	4.56kHz	
6. Band Edges Compliance	4.68	dB
	9kHz≤f<30MHz	1.79dB
7. Transmitter Spurious Emission - Radiated	30MHz≤f<1GHz	4.86dB
	1GHz≤f<18GHz	4.50dB
	18GHz≤f≤40GHz	2.90dB
8. AC Power line Conducted Emission	150kHz≤f≤30MHz	2.62dB

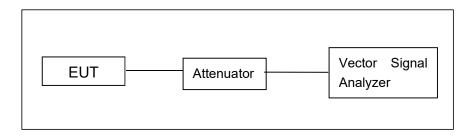


ANNEX A: Detailed Test Results

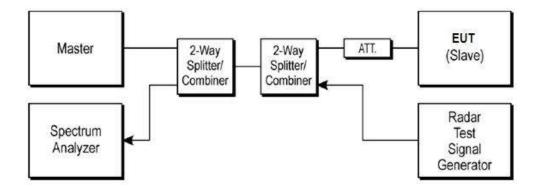
A.1. Measurement Method

Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values.



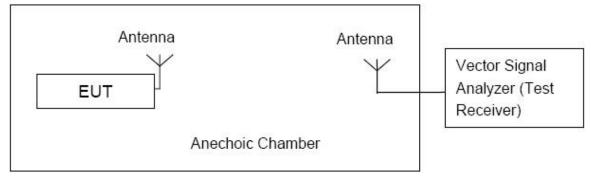
6). The below figure shows the DFS setup, where the EUT is a RLAN device operating in slave mode, without Radar Interference Detection function. This setup also contains a device operating in master mode. The radar test signals are injected into the master device. The EUT (slave device) is associated with the master device. WLAN traffic is generated by streaming the mpeg file from the master to the slave in full monitor video mode using the media player.





Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows: Sweep frequency from 30 MHz to 1 GHz, RBW = 100 KHz, VBW = 300 KHz; Sweep frequency from 1 GHz to 26 GHz, RBW = 1 MHz, VBW = 10 Hz;



The measurement is made according to KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.



A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
	5150MHz~5250MHz	24
	5250MHz~5350MHz	24 or 11+10logB
FCC CRF Part 15.407(a)	5470MHz~5725MHz	24 or 11+10logB
	5725MHz~5850MHz	30

Limit use the less value, and B is the 26dB bandwidth.

Measurement of method: See ANSI C63.10-2013-Clause 12.3.3.2

Method PM-G is a measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Measurement Results:

Mode	Channel	RF output power (dBm)	Conclusion
	5180MHz (Ch36)	12.90	Р
	5200MHz (Ch40)	12.91	Р
	5240MHz (Ch48)	12.76	Р
	5260MHz (Ch52)	12.85	Р
	5280MHz (Ch56)	12.90	Р
000 44 -	5320MHz (Ch64)	12.73	Р
802.11a	5500MHz (Ch100)	12.84	Р
	5580MHz (Ch116)	12.80	Р
	5700MHz (Ch140)	11.18	Р
	5745MHz (CH149)	10.56	Р
	5785MHz (CH157)	9.75	Р
	5825MHz (CH165)	9.63	Р
	5180MHz (Ch36)	12.82	Р
	5200MHz (Ch40)	12.87	Р
	5240MHz (Ch48)	12.76	Р
	5260MHz (Ch52)	12.65	Р
	5280MHz (Ch56)	12.88	Р
000 44- 11700	5320MHz (Ch64)	12.55	Р
802.11n-HT20	5500MHz (Ch100)	12.66	Р
	5580MHz (Ch116)	12.63	Р
	5700MHz (Ch140)	11.02	Р
	5745MHz (CH149)	10.38	Р
	5785MHz (CH157)	9.61	Р
	5825MHz (CH165)	9.41	Р

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	5180MHz (Ch36)	12.80	Р
	5200MHz (Ch40)	12.76	Р
	5240MHz (Ch48)	12.41	Р
	5260MHz (Ch52)	12.76	Р
	5280MHz (Ch56)	12.81	Р
	5320MHz (Ch64)	12.47	Р
802.11ac-VHT20	5500MHz (Ch100)	12.72	Р
	5580MHz (Ch116)	12.42	Р
	5700MHz (Ch140)	11.05	Р
	5745MHz (CH149)	10.48	Р
	5785MHz (CH157)	9.73	Р
	5825MHz (CH165)	9.52	Р
	5190MHz (Ch38)	12.25	Р
	5230MHz (Ch46)	11.88	Р
	5270MHz (Ch54)	12.12	Р
	5310MHz (Ch62)	12.46	Р
802.11n-HT40	5510MHz (Ch102)	12.14	Р
	5550MHz (Ch110)	12.21	Р
	5670MHz (Ch134)	11.38	Р
	5755MHz (CH151)	10.20	Р
	5795MHz (CH159)	9.42	Р
	5190MHz (Ch38)	12.17	Р
	5230MHz (Ch46)	11.75	Р
	5270MHz (Ch54)	11.96	Р
	5310MHz (Ch62)	12.39	Р
802.11ac-VHT40	5510MHz (Ch102)	12.07	Р
	5550MHz (Ch110)	12.14	Р
	5670MHz (Ch134)	11.41	Р
	5755MHz (CH151)	10.41	Р
	5795MHz (CH159)	9.59	Р
	5210MHz (Ch42)	11.98	Р
	5290MHz (Ch58)	12.02	Р
802.11ac-VHT80	5530MHz (Ch106)	11.43	Р
	5610MHz (Ch122)	11.12	Р
	5775MHz (CH155)	9.46	Р

Note:

The data rate 6Mbps (11a mode), MCS0 (11n mode) and MCS0 (11ac mode) are selected as the worst case. 802.11a, 802.11n-HT40 and 802.11ac-VHT80 are selected as the worst-case. The following cases and test graphs are mostly performed with this condition.

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

Conclusion: PASS



A.3. Peak Power Spectral Density (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section F.

Measurement Limit:

Standard	Frequency (MHz)	Limit
	5150MHz~5250MHz	11dBm/MHz
	5250MHz~5350MHz	11dBm/MHz
FCC CRF Part 15.407(a)	5470MHz~5725MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500kHz

The PPSD measurement method SA-1 is made according to KDB 789033.

Measurement Results:

Mada	Ohannal	Power Spectral	O a malina i a m
Mode	Channel	Density(dBm/MHz)	Conclusion
	5180MHz (Ch36)	1.13	Р
	5200MHz (Ch40)	-0.15	Р
	5240MHz (Ch48)	0.43	Р
	5260MHz (Ch52)	0.04	Р
802.11a	5280MHz (Ch56)	-0.03	Р
	5320MHz (Ch64)	-0.40	Р
	5500MHz (Ch100)	0.35	Р
	5580MHz (Ch116)	-0.31	Р
	5700MHz (Ch140)	-2.18	Р
	5190MHz (Ch38)	-3.08	Р
	5230MHz (Ch46)	-3.32	Р
	5270MHz (Ch54)	-3.68	Р
802.11n-HT40	5310MHz (Ch62)	-3.48	Р
	5510MHz (Ch102)	-2.88	Р
	5550MHz (Ch110)	-2.68	Р
	5670MHz (Ch134)	-4.83	Р
	5210MHz (Ch42)	-7.01	Р
	5290MHz (Ch58)	-6.98	Р
802.11ac-VHT80	5530MHz (Ch106)	-5.89	Р
	5610MHz (Ch122)	-6.90	Р
Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
	5745MHz (CH149)	-5.03	P
802.11a	5785MHz (CH149)	-5.41	P
002.11a	5825MHz (CH165)	-5.95	P
	5755MHz (CH151)	-8.23	P
802.11n-HT40	5795MHz (CH159)	-8.31	P
802.11ac-VHT80	5775MHz (CH155)	-13.32	P

Conclusion: PASS

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A.4. Occupied 26dB Bandwidth (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section C.1.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403 (i)	/

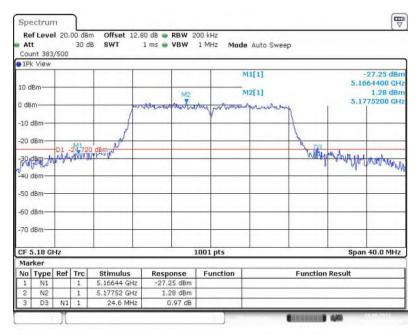
The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	-	oied 26dB ridth (MHz)	Conclusion
	5180MHz(Ch36)	Fig.1	24.60	1
	5200MHzs(Ch40)	Fig.2	23.80	Ι
	5240MHz(Ch48)	Fig.3	22.44	Ι
	5260MHz(Ch52)	Fig.4	23.48	Ι
	5280MHz(Ch56)	Fig.5	22.92	Ι
802.11a	5320MHz(Ch64)	Fig.6	27.44	Ι
	5500MHz(Ch100)	Fig.7	25.04	Ι
	5580MHz(Ch116)	Fig.8	27.24	Ι
	5700MHz(Ch140)	Fig.9	22.36	Ι
	5745MHz(Ch149)	Fig.10	21.40	Ι
	5785MHz(Ch157)	Fig.11	22.40	Ι
	5825MHz(Ch165)	Fig.12	25.44	1
	5190MHz(Ch38)	Fig.13	70.00	1
	5230MHz(Ch46)	Fig.14	70.00	1
	5270MHz(Ch54)	Fig.15	69.84	1
	5310MHz(Ch62)	Fig.16	70.40	1
802.11n-HT40	5510MHz(Ch102)	Fig.17	68.40	Ι
	5550MHz(Ch110)	Fig.18	68.24	1
	5670MHz(Ch134)	Fig.19	68.56	1
	5755MHz(Ch151)	Fig.20	67.84	1
	5795MHz(Ch159)	Fig.21	70.32	Ι
	5210MHz(Ch42)	Fig.22	89.12	Ι
	5290MHz(Ch58)	Fig.23	90.08	Ι
802.11ac-VHT80	5530MHz(Ch106)	Fig.24	92.64	Ι
	5610MHz(Ch122)	Fig.25	91.20	1
	5775MHz(Ch155)	Fig.26	90.40	1

See below for test graphs. Conclusion: PASS







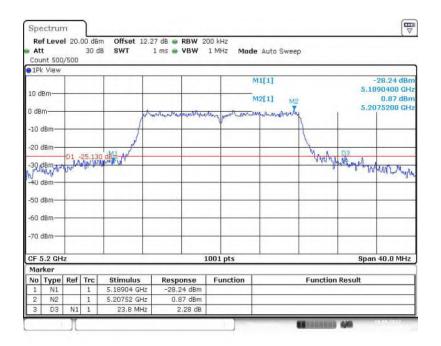
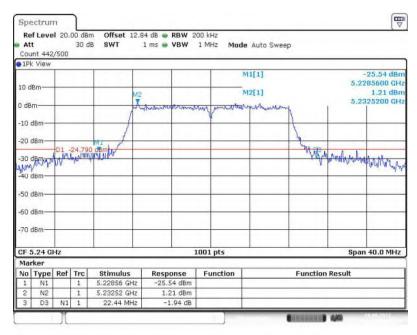


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)







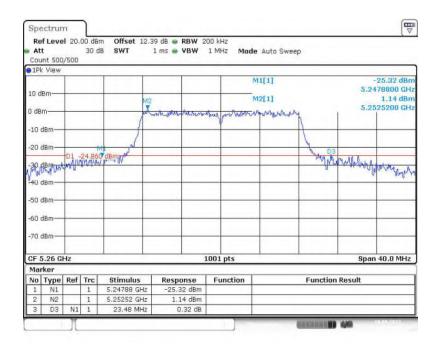


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)



3W			M. Concernent Street Street		M1[1] M2[1] M2			25.29 dBr 10400 GH
			n the second second mark		test al			
		T.	William March March March		M2[1] M2		5.287	1.00 dB
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11	1							
12	1		the second s		-			
	GHz De Ref 1 2	GHz e Ref Trc 1 1 2 1	GHz II 1 5.26904 GH2 2 1 5.20752 GH2	GHz 1 1 1 5.26904 GHz -25.29 dBm 2 1 5.28752 GHz 1.00 dBm	GHz 1001 pts Image: Ref Trc Stimulus Response Function 1 1 5.26904 GHz -25.29 dBm Function 2 1 5.26752 GHz 1.00 dBm Function	GHz 1001 pts B 1 5.26904 GHz ~25.29 dBm 2 1 5.28752 GHz 1.00 dBm	GHz 1001 pts GHz 1001 pts I 1 5.26904 GHz -25.29 dBm 2 1 5.26752 GHz 1.00 dBm	GHz 1001 pts Span 4 1 1 5:26904 GHz -25:29 dBm 2 1 5:269752 GHz 1.00 dBm



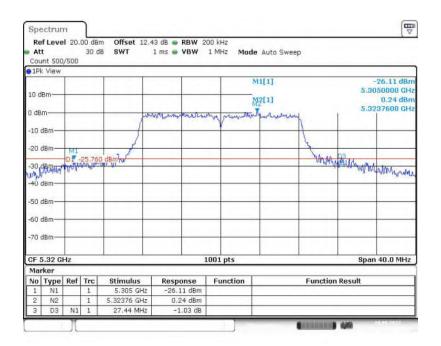


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)



At	f Leve t nt 378		30 d			DO KHZ 1 MHZ Mod	le Auto Sweep	
10 d 0 dB -10 (m				notwork and the second		M1[1] M2[1] M2	-26.65 dB 5.4891200 G 1.60 dB 5.5075200 G
-20 (iBm-	P1 Myd	24.321	D dBm fr			- Jun	an a
-50 c	dBm—							
CF 5 Mar	i.5 GH	z			1	001 pts		Span 40.0 MH
No 1	Type N1	Ref	1	Stimulus 5.48912 GHz	Response -26.65 dBm	Function	Funct	ion Result
2	N2 D3	N1	1	5,50752 GHz 25.04 MHz	1.68 dBm 1.71 dB			



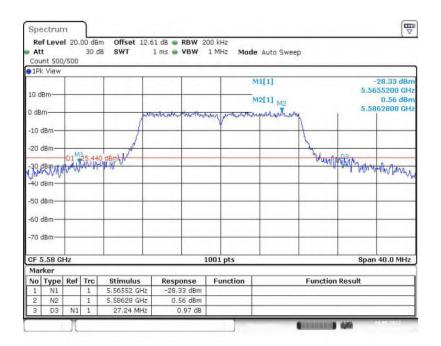


Fig. 8 Occupied 26dB Bandwidth (802.11a, 5580MHz)



At			00 dBr 30 d		8 dB 🐽 RBW 2 1 ms 👜 VBW		e Auto Sweep	
_	nt 359 View	/500	_					
10 d	Bm				and an and a second		M1[1] M2[1] M2	-28.84 dB 5.6880400 G 2.05 dB 5.7075200 G
-10	dBm	_				Y		
-20 (iBm—	D1 -	23.95	YdBm Hu			- Jug	Jun manual and an
-30	TRACK	e/V4	MAN DU	KOBM HU				gar and an and an and an and an
-50 (
-60 (dBm—	-	_					
-70 (iBm—					_		
_	5.7 GH	z			1	1001 pts		Span 40.0 MHz
	ker Type	Def	Trc	Stimulus	Deenenee	Function	Euro	tion Result
1	N1	Ker	1	5.68804 GHz	-28.84 dBm	Function	Func	cion result
2	N2		1	5.70752 GHz	2.05 dBm		-	
3	D3	N1	1	22.36 MHz	3.85 dB			



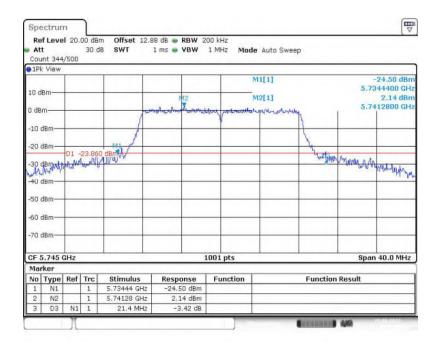


Fig. 10 Occupied 26dB Bandwidth (802.11a, 5745MHz)



Att	f Leve : nt 310		00 dBr 30 d		19 dB 💿 RBW 2 1 ms 💿 VBW		de Auto Sweep	
D 1Pk	View							
10 di	3m			M	2		M1[1] M2[1]	-25.83 dB/ 5.7726400 GF 1.77 dB/
0 dB	n—	-		J. J.	nterrounderthe	any manute	ingentermound	5.7775200 GH
-10 0	IBm—	-						
-20 0	IBm—	-	M	1		-	103	
-30 c	IBm-	MA	Malle	dBmc				plenousers
-50 0	IBm	-	_	-				
-60 0	iBm—	-					_	
-70 c	IBm						-	
CF 5	.785 (GHz				1001 pts		Span 40.0 MHz
Mar	ker							
	Туре	Ref		Stimulus	Response	Function	Funct	ion Result
1	N1		1	5.77264 GHz	-25.83 dBm			
2	N2 D3	N1	1	5.77752 GHz 22.4 MHz	1.77 dBm 1.51 dB			



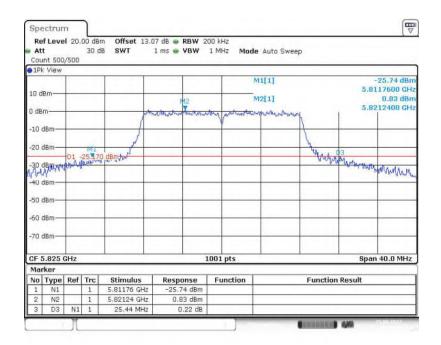
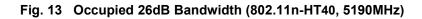


Fig. 12 Occupied 26dB Bandwidth (802.11a, 5825MHz)



Re At	f Leve	1 20.	00 dBr 30 d		5 dB 💿 RBW 5 1 ms 💿 VBW		e Auto Sweep	
	nt 500 View	/500	_					
) IP	VIBW	-				1	M1[1]	-23.66 dB
10 d	Bm							5.1559200 GF
10.0	om						M2[1] M2	2.64 dB
0 dB	m	-		man	ما و بسره الم المحمد	any manine	important	5.2032800 GH
				1		Y	1	
-10	iBm—	-	_	+ / +				
				and l				
20 (iBm-	01	23 36	1 dBm			₩.	MAR MARARA
66		141	20.001					Mary Mary Mary
30 1	DIII-							
40	IBm-	-						
-50 (iBm—	-						
-60	iBm—	-						
70								
-70 (IBm-							
CF 3	.19 G	Hz			1	001 pts		Span 80.0 MH
Mar		-	-					
No	Туре	Ref	Trc	Stimulus	Response	Function	Functi	on Result
1	N1		1	5.15592 GHz	-23.66 dBm			
2	N2		1	5.20328 GHz	2.64 dBm			
3	D3	N1	1	70.0 MHz	-1.09 dB			



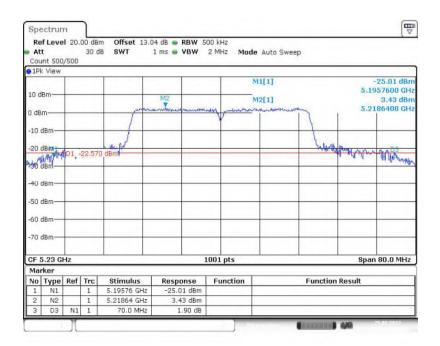
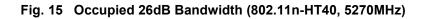


Fig. 14 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)



At	f Leve t nt 500		00 dB: 30 d		6 dB 💩 RBW 5 1 ms 👜 VBW		e Auto Sweep	
_	View							
10 d	Bm						M1[1] M2[1] M2	-23.06 dB 5.2358400 GF 3.68 dB
0 dB	m——			p	man and an and the last	and providence		5.2827200 GH
-10	MT			man				1.0.0
	while	01 -	22.32	0 dBm			109	and the second
-40 (dBm—	-						
-50	dBm	-						
-60 (dBm—	-						
-70 (dBm	-				-		
	5.27 G	Hz				1001 pts		Span 80.0 MH
Mar			_					
	Туре	Ref		Stimulus	Response	Function	Funct	ion Result
1	N1 N2	-	1	5.23584 GHz 5.28272 GHz	-23.06 dBm 3.68 dBm			
2	D3	N1	1	69.84 MHz	-2.65 dB			



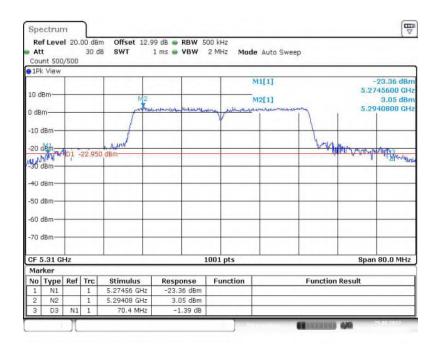
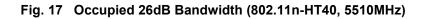


Fig. 16 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)



At			00 dBr 30 d		1 dB 💿 RBW 50 1 ms 💿 VBW		e Auto Sweep	
_	nt 500 View	/500	_					
10 d						-	M1[1] M2[1] M2	-22.87 dB 5.4761600 GF 3.45 dB
0 dB				- from	3. mident addresses	New markebourke	annonemented	5.5270400 GH
-10 0	iBm-			unal			4	Maria Do
	NOT	D1 -	22.55	2 dBm				And the second second
-40 (18m—	-	_					
-50 0	dBm-	-				-		
-60 0	dBm—	-	_					
-70 (dBm	-						
CF 5 Mar	5.51 G	Hz	_		1	001 pts		Span 80.0 MH
	ker Type	Ref	Trc	Stimulus	Response	Function	Funct	ion Result
1	N1		1	5.47616 GHz	-22.87 dBm		- unot	
2	N2 D3	N1	1	5.52704 GHz 68.4 MHz	3.45 dBm 0.31 dB			



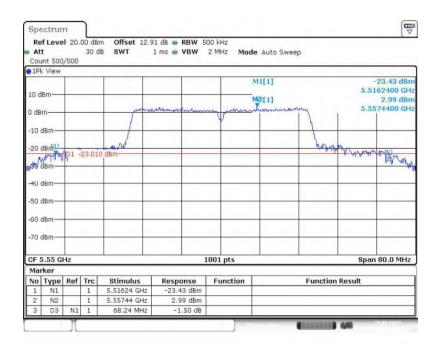
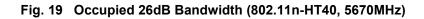


Fig. 18 Occupied 26dB Bandwidth (802.11n-HT40, 5550MHz)



At	f Leve t nt 500		00 dBr 30 d		6 dB 💿 RBW 50 1 ms 🖷 VBW		e Auto Sweep	
01Pk	View							
10 d	Bm		_	M2			M1[1] M2[1]	-26.43 dB 5.6358400 GI 2.01 dB
0 dB	m	-		win.	arrand and the second colonization	- Varian	mound	-5.6540000 Gł
-10 0	dBm					_		
-20 0	INI L	01 -	23.99(dBm			49	M Wowwwwwww
-40 (
-50 (
-60 0	dBm—	_						
-70 (dBm—	-	_					
	6.67 G	Hz	_		1	001 pts		Span 80.0 MH
Mar			-					
1 1	Type N1	Ref	1 1	Stimulus 5.63584 GHz	-26.43 dBm	Function	Funct	ion Result
2	N2	-	1	5.654 GHz	2.01 dBm			
3	D3	N1	1	68.56 MHz	1.99 dB			



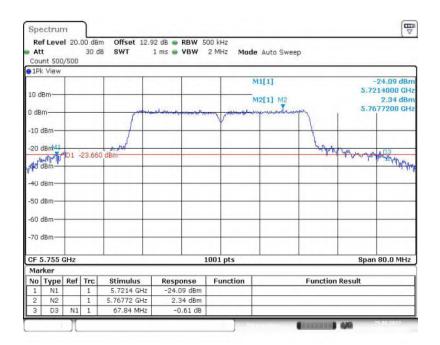
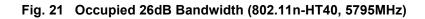


Fig. 20 Occupied 26dB Bandwidth (802.11n-HT40, 5755MHz)



At	f Leve t nt 500		30 d		5 dB 💿 RBW 50 1 ms 🕤 VBW		le Auto Sweep		
0 1PH	View								
10 d	Bm						M1[1] M2[1] M2	5.7	-26.72 dB 594800 GF -0.67 dB 106000 GF
0 dB				france	and have been and	atter promission	inder manues there	5.8	106000 GF
20	iD m			and			1	man	
. 791	in the second	D1 -	26.670) dBm				William	Manan
-40 (
-50 (1Bm—								
-60 (dBm—	-							
-70 (dBm		-						
	5.795	GHz	_	<u> </u>	1	001 pts	-	Spa	n 80.0 MH:
Mar	ker Type	Pof	Tro	Stimulus	Response	Function	Eu	nction Result	
1	N1	Kel	1	5.75948 GHz	-26.72 dBm	Function	Fu	notion Result	
2	N2		1	5.8106 GHz	-0.67 dBm				
3	D3	N1	1	70.32 MHz	-0.65 dB				



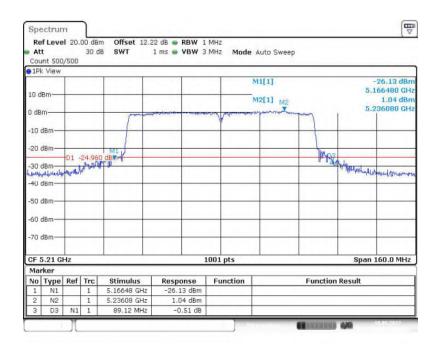
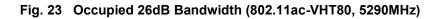


Fig. 22 Occupied 26dB Bandwidth (802.11ac-VHT80, 5210MHz)



At	f Leve t nt 500		00 dBr 30 d		8 dB 💿 RBW 1 1 ms 🕤 VBW 3		Auto Sweep)		
01P	(View									
10 d	Bm		_				M1[1] M2[1]			27.33 dB 46320 GF 1.15 dB
0 dB						M2	marahahahanaarun marat		5.3	94640 GH
-10				- Contraction		-Y				
		D1 -	24.85			-	-	MAR	All Harmanstern	
-30 (dBm-	seen to	-handron					1. 4	Little Change and	war while a
-40 (tBm-	-								
101	a bini									
-50 (dBm-	-					-	-	-	-
-60	dBm—	-					-	-		
-70	dBm-									
										1
CF S	5.29 G	Hz		· · · ·	1	.001 pts			Span	160.0 MHz
Mar	ker									
No	Туре	Ref	Trc	Stimulus	Response	Function		Function	Result	
1	N1		1	5.24632 GHz	-27.33 dBm					
2	N2		1	5.29464 GHz	1.15 dBm					
3	D3	N1	1	90.08 MHz	1.25 dB					



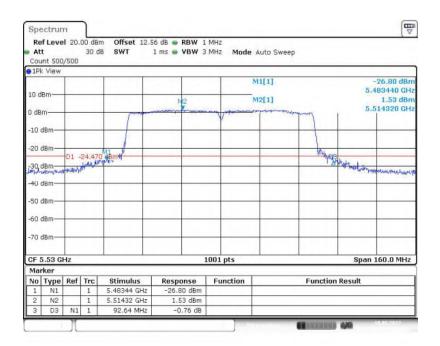
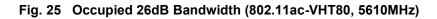


Fig. 24 Occupied 26dB Bandwidth (802.11ac-VHT80, 5530MHz)



At	f Leve t int 500		00 dB: 30 d		9 dB 💿 RBW 1 1 ms 👄 VBW 3		Auto Sweep	
1 P	(View	_				-		
10 d	Bm						M1[1] M2[1]	-27.84 dB 5.562320 GF 0.66 dB
0 dB	m				M2		weter 1	5.588560 GH
-10	dBm					Y		
-20 (dBm					_		
	10	D1 -	25.34	dBm				THE REAL PROPERTY AND INC.
-30 1	dBm-	uninter	Produce .	LdBm				to Builded myterid in human in he
-50 (dBm	-						
-60 (dBm—	-						
-70 (dBm	-						
CF :	5.61 G	Hz				1001 pts		Span 160.0 MH:
Mar								
	Туре	Ref		Stimulus	Response	Function	Fun	ction Result
1	N1	-	1	5.56232 GHz	-27.84 dBm			
2	N2 D3	N1	1	5.58856 GHz 91.2 MHz	0.66 dBm 0.51 dB			



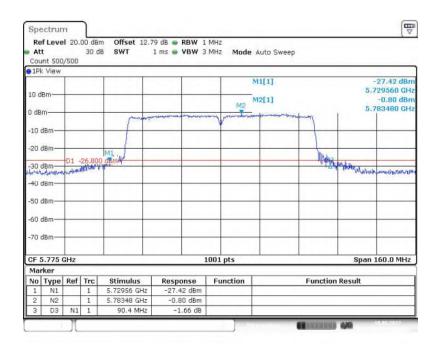


Fig. 26 Occupied 26dB Bandwidth (802.11ac-VHT80, 5775MHz)



A.5. Occupied 6dB Bandwidth (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section C.2.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.407 (e)	≥ 0.5

The measurement is made according to KDB 789033

Measurement Result:

Mode	Channel	Occupi Bandwid	Conclusion		
	5745MHz(Ch149)	Fig.27	16.32	Р	
802.11a	5785MHz(Ch157)	Fig.28	16.32	Р	
	5825MHz(Ch165)	Fig.29	16.32	Р	
902 11p UT40	5755MHz(Ch151)	Fig.30	36.32	Р	
802.11n-HT40	5795MHz(Ch159)	Fig.31	36.08	Р	
802.11ac-VHT80	5775MHz(Ch155)	Fig.32	75.68	Р	

See below for test graphs. Conclusion: PASS

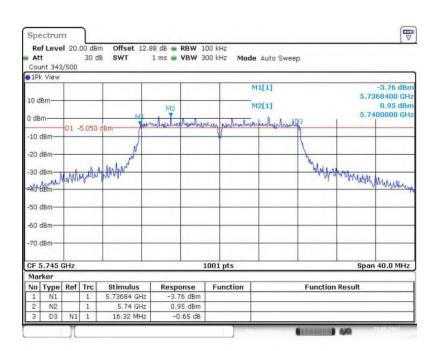


Fig. 27 Occupied 6dB Bandwidth (802.11a, 5745MHz)



Re At	f Leve t	1 20.	00 dBr 30 d		19 dB 🖷 RBW 1 1 ms 🖷 VBW 3		e Auto Sweep			
_	nt 310 View	/500								
10 d	Bm			MA			M1[1] M2[1] M2			-4.37 dB 68400 GF 0.42 dB 24800 GF
U UB		D1 -	5.580	dBm	alloutreminian	they provember	uperduidenal	3	-	
-10	dBm—					-				
-20 (-	_	met			-	7		
-30 1	dBm-	Nerv	dynar	anutation				MAN	Mulum	Minnals
-50	dBm	-	_	-			-		-	
-60 (dBm—	-								
-70 (dBm	-					-			
CF :	5.785	GHz			- L	001 pts			Span	40.0 MH
	ker									
	Туре	Ref		Stimulus	Response	Function		Function	Result	
1	N1 N2	_	1	5.77684 GHz 5.79248 GHz	-4.37 dBm 0.42 dBm					
2	D3	N1	1	16.32 MHz	0.42 dBm					



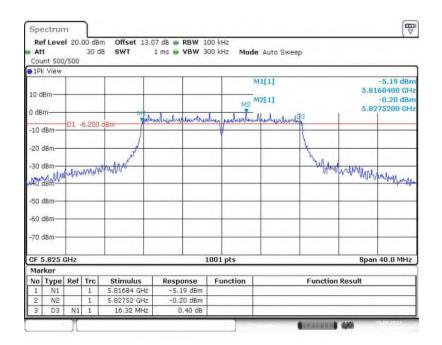
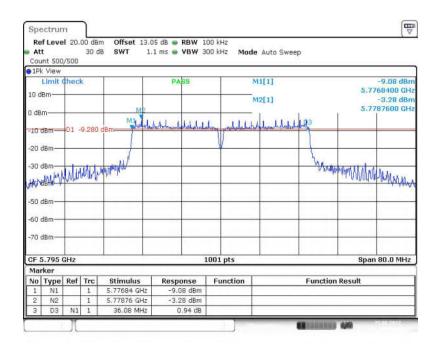


Fig. 29 Occupied 6dB Bandwidth (802.11a, 5825MHz)



At	nt 500		00 dBr 30 d		2 dB 💿 RBW 10 1 ms 🖶 VBW 30		e Auto Sweep	
10 d				M2			M1[1] M2[1]	-8.43 dB/ 5.7368400 GF -2.53 dB/ 5.7387600 GF
-10 d	iBm—		8.530		Welmuch Hatshalada	dra vahdelik	olyhourholdshelvedet	
-30 a	IBm IBm IBm	U.M.	Unida	and the second sec	-			anatal Manahana
-60 0					_	_		
CF 5 Mar	.755 (GHz	_		1	001 pts		Span 80.0 MH
	Туре	Ref	Trc	Stimulus	Response	Function	Fu	nction Result
1	N1		1	5.73684 GHz	-8.43 dBm			
2	N2		1	5.73876 GHz	-2.53 dBm			









Cou			00 dBr 30 di				RBW 10 VBW 30		e Auto Swee	p			
D1P	(View								10-01-01-0				
10 d	Bm								M1[1] M2[1]			5.7	11.77 dB 37240 GF -6.43 dB
0 dB	m	-			+		12		1	1		5.7	59960 GH
-10	dBm	D1 -	12.430	dBm-	J. W. W	Illand	Thelefold	W. Mulu	http://////	UF	3		
-20 (dBm-		_		-	-		-	-				
-30 (-			+			_					
-40 (18m	and an other	milit	operational	-	_					hellergen	doriumlinene-	distant and
-50 (Der										and and any	aun mondals
-301	JDIII-		-				1						
-60	dBm—	-	_		-					-			
-70	dBm	-	_		+			-	-	-			
CF :	5.775	GHz	_		_		1	001 pts		_		Span :	60.0 MH
Mar	ker												
No	Туре	Ref	Trc	Stimulu		Resp		Function		Fu	inction	Result	
	N1		1	5.73724 (7 dBm						
1	N2		1				3 dBm						

Fig. 32 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)



A.6. 99% Occupied Bandwidth (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section D.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033

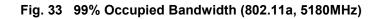
Measurement Result:

Mode	Channel		ccupied hth(MHz)	Conclusion
	5180MHz(Ch36)	Fig.33	17.54	1
	5200MHz(Ch40)	Fig.34	17.58	1
	5240MHz(Ch48)	Fig.35	17.50	1
	5260MHz(Ch52)	Fig.36	17.58	1
	5280MHz(Ch56)	Fig.37	17.58	1
000 44 -	5320MHz(Ch64)	Fig.38	17.54	1
802.11a	5500MHz(Ch100)	Fig.39	17.66	1
	5580MHz(Ch116)	Fig.40	17.50	1
	5700MHz(Ch140)	Fig.41	17.50	1
	5745MHz(Ch149)	Fig.42	17.46	1
	5785MHz(Ch157)	Fig.43	17.46	1
	5825MHz(Ch165)	Fig.44	17.46	1
	5190MHz(Ch38)	Fig.45	37.56	1
	5230MHz(Ch46)	Fig.46	37.48	1
	5270MHz(Ch54)	Fig.47	37.96	1
	5310MHz(Ch62)	Fig.48	37.88	1
802.11n-HT40	5510MHz(Ch102)	Fig.49	37.64	1
	5550MHz(Ch110)	Fig.50	37.80	1
	5670MHz(Ch134)	Fig.51	37.56	1
	5755MHz(Ch151)	Fig.52	37.72	1
	5795MHz(Ch159)	Fig.53	37.96	1
	5210MHz(Ch42)	Fig.54	76.08	1
	5290MHz(Ch58)	Fig.55	76.24	1
802.11ac-VHT80	5530MHz(Ch106)	Fig.56	75.92	1
	5610MHz(Ch122)	Fig.57	75.76	1
	5775MHz(Ch155)	Fig.58	76.08	1

See below for test graphs. Conclusion: PASS



At			00 dBr 30 di		0 dB 💿 RBW 5 1 ms 💿 VBW		e Auto Sweep	
	View							
10 d	Bm					-	M1[1] M1 Orc Bw	5.59 dB 5.1838360 GF 17.542457542 MF
0 dB	m				antenante	un and a state of the state of	manney	
				7			¥	
-10		+		at			1	
	in .	1.0	. It fall a	AN IN			1	NA Maketer 1
-201	1Bm	p.p.u	ANHAICE	hough the				http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://
-30	Bm-	-						Contract Ros
-40 (18m—	-				_	+ +	
-50	in.							
-50 1	Join							
-60	dBm—	-	_			-		
-70 (dBm—	-	_			-		
or 1	5.18 G					004		Span 40.0 MH
Mar	_	HZ	_			001 pts		span 40.0 MH
	Type	Pof	Trc	Stimulus	Response	Function	Func	tion Result
1	N1	Ker	1	5.1838 GHz	5.59 dBm	runction	Func	aton Result
2	11		1	5.1888 GHz	-4.83 dBm	Occ Bw		17.542457542 MH
3	2T	-	1	5.1712 GHz	-6.21 dBm			



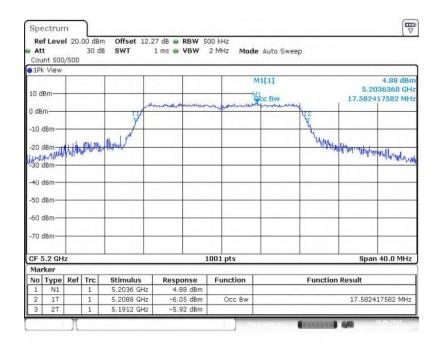
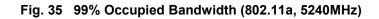


Fig. 34 99% Occupied Bandwidth (802.11a, 5200MHz)



t 500, /iew m	/500						
n							
	-	_			-	M1[1] GCC BW	5.42 dB 5.2436760 G 17.502497502 M
	_	_	Ta	man and the state of the second se	manna	approximater many 172	
			7			7	
m—			105		-	1	100
m-t	1.14	ditte	hulage			Tu .	Milligh termal
watern	14	W I I W					http://www.www.www.http://www.
m	-						
m—							
m—	-						
					-		
an-							
m—	-	_					
	Iz		с. <u>с</u>	1	.001 pts		Span 40.0 MH
er							
	Ref		Stimulus	Response	Function	Fun	ction Result
N1							
	-	-			Occ Bw		17.502497502 MH
	mmmmmmm	mmmmmmmm	m	m	m m m m m m	m 101 m 1 m 1 m 1 m 1 sr 1 N1 1 1 5.2437 GHz 5.42 dBm 11 1 12 1.46 dBm 0 0	m 101 m 1 m 1 m 1 m 1 sr 1 sr 1 N1 1 5.2488 GHz -4.76 dBm Occ Bw



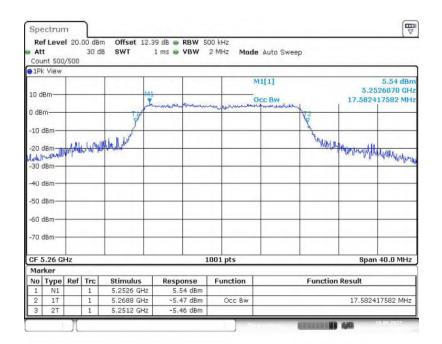
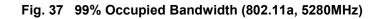


Fig. 36 99% Occupied Bandwidth (802.11a, 5260MHz)



At			00 dBr 30 di		1 dB 💀 RBW 5 1 ms 🖷 VBW		e Auto Sweep	
) 1Pk	(View							
						1	M1[1]	5.15 dB 5.2836760 G
10 d	Bm-	-		1		2	CC BW	17.582417582 MI
0 dB				1	mentalmente	acception willing	all commencessing	
0 GB	m			14			12	
-10	IBm-						1	
			1 - 14	1 when a			No. 1	202
-20 (dBm-	allel	Heller A	MAN		-	*9 <u>9</u> 10	Ministranden to start
hten	NINDAU	obrad.	1	holes UNV				here the second s
30 (dBm	+	_					
	10							
-40 (aBm-							
-50	dBm-							
-60	dBm—	-	_			-		
-70 (dBm	-		<u> </u>				
_	5.28 G	Hz			1	.001 pts		Span 40.0 MH
	ker			,				
	Туре	Ref		Stimulus	Response	Function	Funct	ion Result
1	N1		1	5.2837 GHz	5.15 dBm			
2	1T	-	1	5.2888 GHz	-5.30 dBm	Occ Bw		17.582417582 MH
3	2T		1	5.2712 GHz	-5.37 dBm			



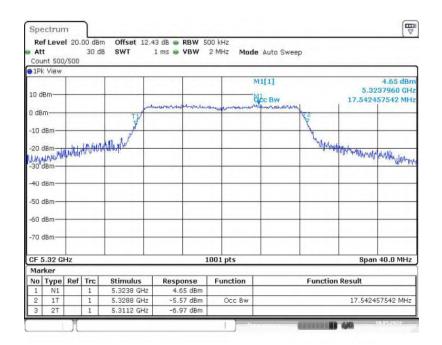
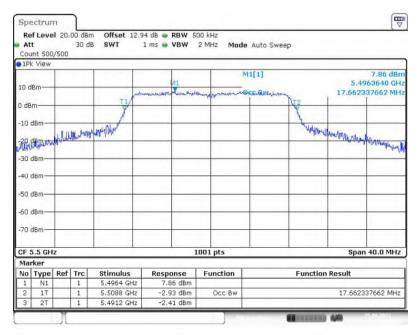


Fig. 38 99% Occupied Bandwidth (802.11a, 5320MHz)







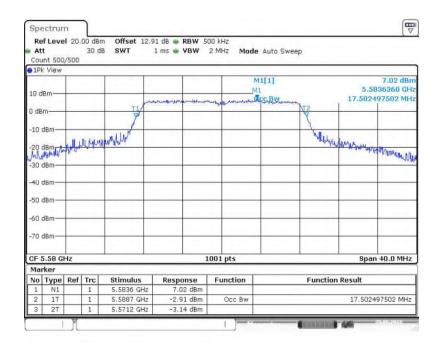
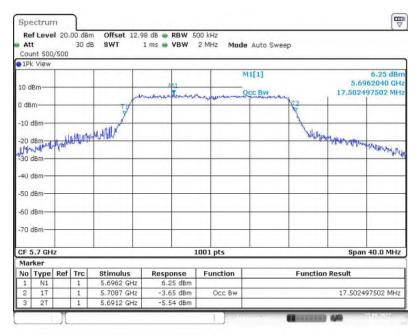
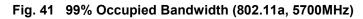


Fig. 40 99% Occupied Bandwidth (802.11a, 5580MHz)







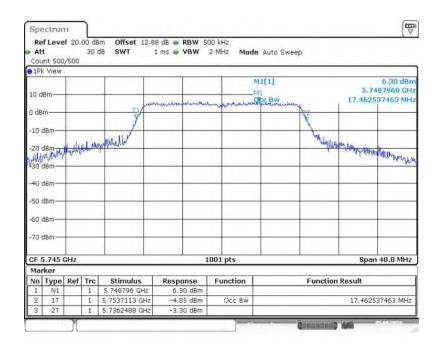


Fig. 42 99% Occupied Bandwidth (802.11a, 5745MHz)



At			00 dBr 30 d		9 dB 💩 RBW 5 1 ms 👜 VBW		e Auto Sweep	
_	nt 500 View	/500	_					
10 d					41		M1[1] Occ Bw	5.99 dB 5.7813640 GI 17.462537463 MI
0 dB	m	-	_	13	weeden weeden and have	the share was a second	James marker 12	
-10 0	dBm-			1				
20.	1D m	10	Indiada	Hollowhow			14	Aprilation .
A.	Intro M	manan	Tal a	Holeshow				Uppletonetweet provide provide a second
-30 0	IBm							
-40 0	dBm-	-						
-50 0	iBm—	-	_			_		_
-60 0	iBm-							
	2011							
-70 (dBm							
CF 5	5.785	GHz			1	001 pts		Span 40.0 MH
Mar	ker							
No	Туре	Ref	Trc	Stimulus	Response	Function	Func	tion Result
1	N1		1	5.7814 GHz	5.99 dBm			
2	1T 2T		1	5.7937 GHz 5.7762 GHz	-3.75 dBm -4.84 dBm	Occ Bw		17.462537463 MH



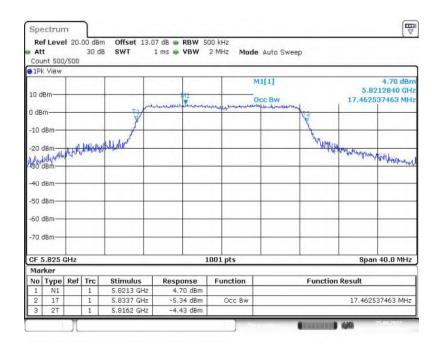


Fig. 44 99% Occupied Bandwidth (802.11a, 5825MHz)



At Cou	nt 500		00 dBr 30 d		5 dB \cdots RBW 1 1 ms 👄 VBW 3		Auto Sweep	
0 1Pk				Ţ	and the second		M1[1]	6.06 5.2055040 37.562437562
-10	iBm	ad thu,	lan Jay	Arran			X	prover and an and a second and a
-30 (-40 (dBm							
-50 (
-60 (-70 (dBm— dBm—							
CF 8 Mai	5.19 G	Hz	_	<u> </u>	1	LOO1 pts	1 1	Span 80.0 M
	Type	Ref	Trc	Stimulus	Response	Function	Fu	nction Result
1	N1		1	5.2055 GHz	6.06 dBm			
2	1T 2T		1	5.2089 GHz 5.1714 GHz	-4.39 dBm -2.32 dBm	Occ Bw		37.5624375621



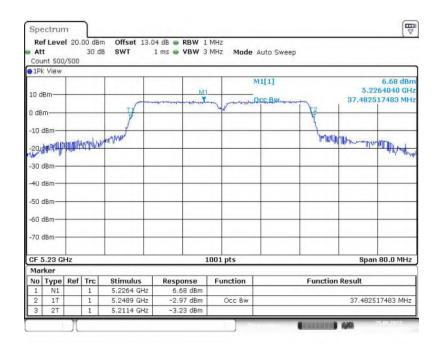


Fig. 46 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)



At Cou	nt 500		00 dBr 30 di		6 dB 💿 RBW 1 ms 💿 VBW		Auto Sweep			
0 1 P	View					1	M1[1]			6.38 dB
10 d	Bro				N01				5.25	584120 GH
10.0	om			man	and an and a second second	and anonemaster	OCC BW	~	37.9620	37962 MH
0 dB	m	-		T		Y	Section Se	te		
				X				4		
-10	dBm—	-	_				+ +	1		
		mar	June 1	aran				allal	Manypp	1000
-20	26 mart	10.4	-						1	1 and the mail
-30										
-30	Join									
-40	dBm-	-					+ +			
-50	dBm	-					+ +			
10	10-11									
-60	asm—									
-70	dBm-									
10	Juli									
CF :	5.27 G	Hz				1001 pts			Spar	80.0 MHz
Mai	ker									
No	Туре	Ref	Trc	Stimulus	Response	Function		Function	Result	
1	N1		1	5.2584 GHz	6.38 dBm					
2	1T		1	5.289 GHz	-5.12 dBm	Occ Bw			37.9620	37962 MH
3	2T		1	5.2511 GHz	-4.17 dBm					



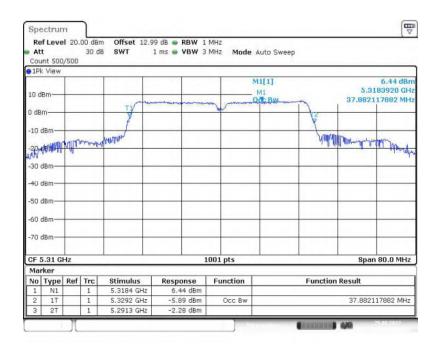
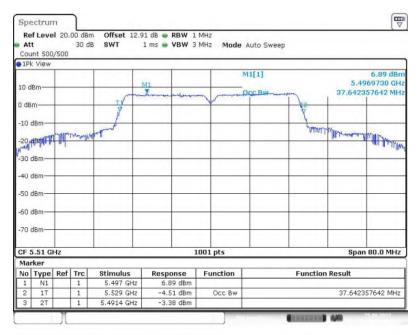


Fig. 48 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)







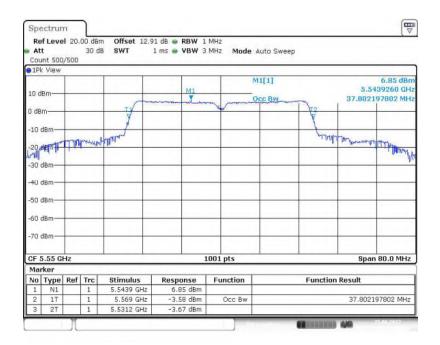
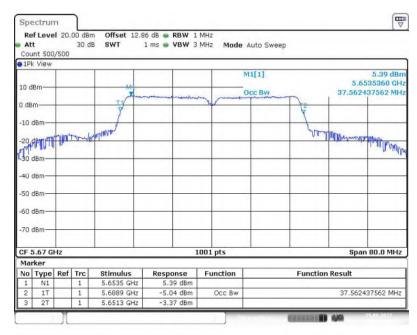


Fig. 50 99% Occupied Bandwidth (802.11n-HT40, 5550MHz)







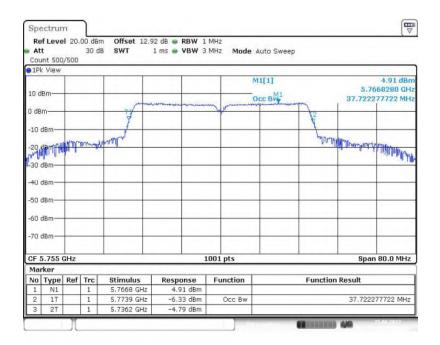
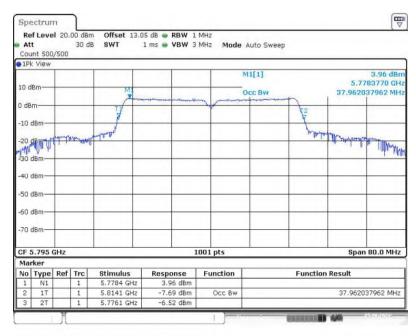


Fig. 52 99% Occupied Bandwidth (802.11n-HT40, 5755MHz)







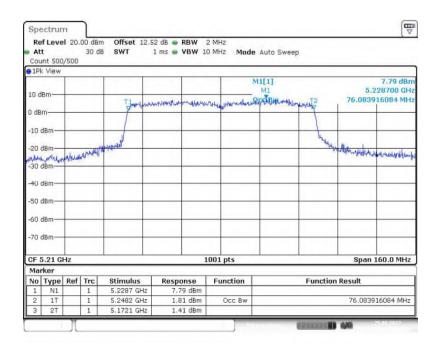
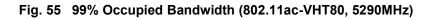


Fig. 54 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)



At	f Leve t nt 500		00 dBr 30 di		8 dB 🧓 RBW 1 ms 👜 VBW 1	2 MHz 10 MHz Mode	Auto Sweep	
_	View	/ 300						
10 d	Bm			TIme bidde	Marchilleralderal		M1[1] M1 REELAW/MUNULUM52	7.97 dB 5.310460 GF 76.243756244 MF
0 dB	m	-		A states	CREASE CALL THE R			
-10 (d D res							
-	iBm-4	Julia	Hun H	prophyl	_		W	Maril whole the preserve and
-30 0								
-40 (dBm-	-						
-50 (dBm-	-	_					
-60 0	dBm—		_					
-70 (iBm—	-	-					
CF 5	5.29 G	Hz				1001 pts		Span 160.0 MH
Mar	ker							
	Туре	Ref		Stimulus	Response	Function	Functio	on Result
1	N1		1	5.3105 GHz	7.97 dBm			
2	1T 2T		1	5.3282 GHz 5.252 GHz	2.00 dBm 1.52 dBm	Occ Bw		76.243756244 MH



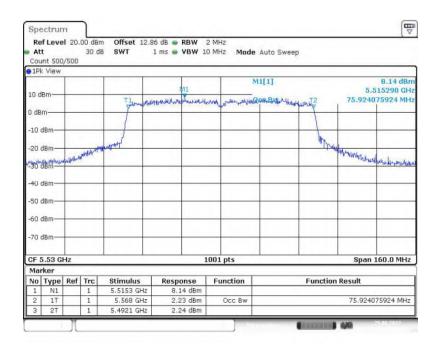
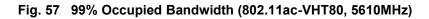


Fig. 56 99% Occupied Bandwidth (802.11ac-VHT80, 5530MHz)



t		00 dBr 30 di			2 MHz 0 MHz Mode	a Auto Sweep	
View							
Bm			TI		M	11	7.32 dB 5.623430 GF 75.764235764 MF
m			jampalite	Hermothicknews.	and the second	Harmon Manderstork	
			and			how	1.15g
and the second	LANK.	fractions					Hernight where we so
BIN							1 1 Mgr + 310
IBm—	-						
iBm—	-				_		
Bm-		_					
iBm—							
.61 G	Hz			1	001 pts		Span 160.0 MH
ker							
Туре	Ref	Trc	Stimulus	Response	Function	Functio	on Result
N1		1	5.6234 GHz	7.32 dBm			
1T 2T		1	5.648 GHz 5.5723 GHz	2.14 dBm 1.44 dBm	Occ Bw		75.764235764 MH
	nt 500 View Nn nn NiBm niBm NiBm nBm NiBm nBm NiBm nBm NI nBm NI	t 500/500 View Sm m	30 d tt 500/500 View 3m m m iBm iBm iBm iBm iBm iBm i	30 dB SWT t 500/500 View 3m 71 1 71 1 50/500 10 10 10 1 5.6234 GHz 11 1 5.6234 GHz 11 1 5.648 GHz	30 dB SWT 1 ms VBW View 3m m 1 m 1 1	30 dB SWT 1 ms VBW 10 MHz Mode 1 ms View <	30 dB SWT 1 ms VBW 10 MHz Made Auto Sweep View View M1[1] M1 M1 M1 M1 3m T1 T1 M1 M1 M1 M1 10 m T1 T1 M1 M1 M1 10 m M1 M1 M1 M1 M1 10 m M1 M1 M1 M1 M1 100 pts M1 M1 M1 M1 M1 101 pts Ker M1 M1 M1 M1 11 5.6234 GHz 7.32 dBm M1 M1



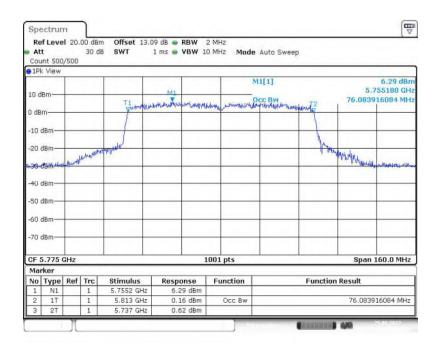


Fig. 58 99% Occupied Bandwidth (802.11ac-VHT80, 5775MHz)



A.7. Dynamic Frequency Selection

The EUT is Client without radar detection (only support client mode).

Measurement of method: See KDB 905462-D02.

Measurement Limit:

Standard	Test Items	Limit
	Channel Move Time	< 10 s
FCC 47 CFR Part 15.407 (h)	Channel Closing Transmission Time	< 200 ms + 60 ms
	Non-Occupancy Period	> 1800 s

The measurement is made according to KDB 905462.

1). Parameters of DFS test signal:

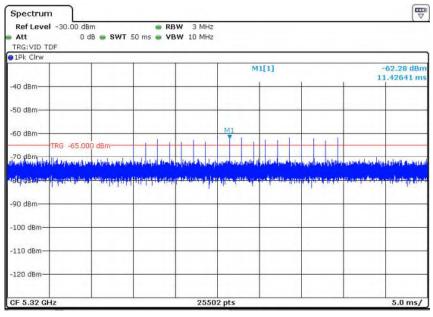
Interference threshold values, master or client incorporation in service monitoring. For device Power less than 23dBm (E.I.R.P.), the threshold level is -62 dBm at the antenna port after Correction for antenna gain and procedural adjustments.

Because of conducted measurement performed, the calibration power from radar signal generator to antenna port of DFS test equipment is -62 dBm.

Maximum Transmit Power	Value
> 200 mW	-64 dBm
< 200 mW	-62 dBm

2). Parameters of the reference DFS test signal:

Pulse width W (µs)	Pulse repetition frequency PRF (PPS)	Pulses per burst (PPB)
1	700	18



Radar Signal (Type 0)

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Measurement Results:

Channel Move Time & Channel Closing Transmission Time:

Mode	Channel	Test Results	Conclusion
802.11a	5320MHz(Ch64)	Fig.59	Р
802.11ac-VHT80	5530MHz(Ch106)	Fig.60	Р

Non-Occupancy Period:

Mode	Channel	Test Results	Conclusion
802.11a	5320MHz(Ch64)	Fig.61	Р
802.11ac-VHT80	5530MHz(Ch106)	Fig.62	Р

Note: The device will automatically discontinue transmission when the transmission of information stops (or operational failure).

See below for test graphs. Conclusion: PASS



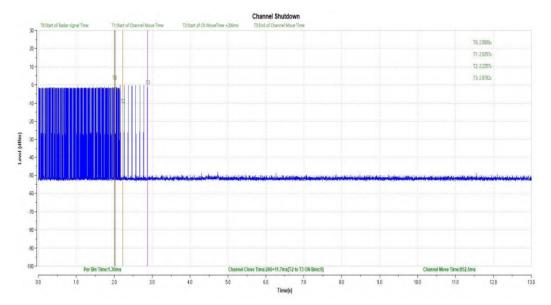


Fig. 59 Channel Move Time & Channel Closing Transmission Time (802.11a Frequency Band: 5250MHz ~ 5350MHz)

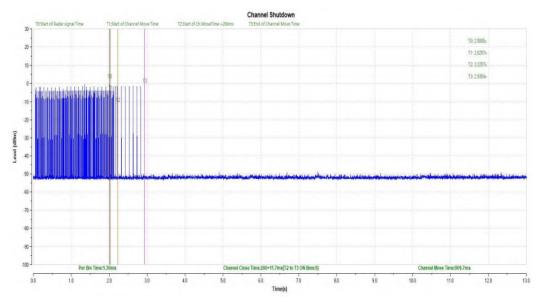


Fig. 60 Channel Move Time & Channel Closing Transmission Time (802.11ac-VHT80 Frequency Band: 5470MHz~5725MHz)



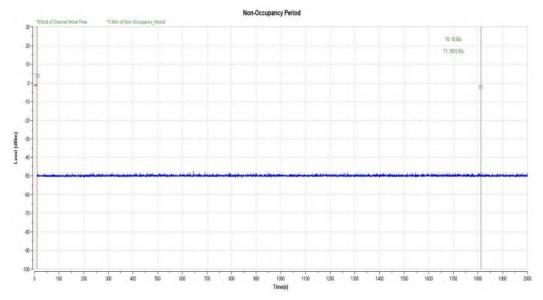


Fig. 61 Non-Occupancy Period (802.11a Frequency Band: 5250MHz ~ 5350MHz)

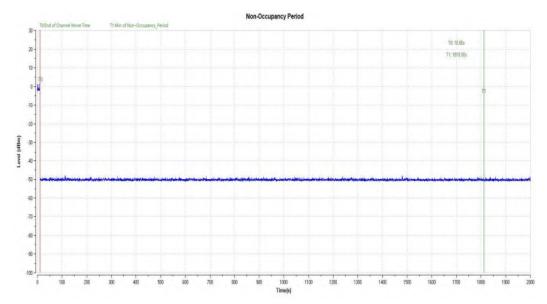


Fig. 62 Non-Occupancy Period (802.11ac-VHT80 Frequency Band: 5470MHz~5725MHz)



A.8. Band Edges Compliance

Method of Measurement: See ANSI C63.10-clause 6.10.

Measurement Limit:

Standard	Limit (dBµV/m)			
FCC 47 CFR Part 15.209	Peak	74		
	Average	54		

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Measurement Result:

Mode	Channel	Test Results	Conclusion
	5180 MHz (CH36)	Fig.63	Р
	5320 MHz (CH64)	Fig.64	Р
902 110	5500 MHz (CH100)	Fig.65	Р
802.11a	5700 MHz (CH140)	Fig.66	Р
	5745 MHz (CH149)	Fig.67	Р
	5825 MHz (CH165)	Fig.68	Р
	5190 MHz (CH38)	Fig.69	Р
	5310 MHz (CH62)	Fig.70	Р
802.11n-HT40	5510 MHz (CH102)	Fig.71	Р
оuz.111-п140	5670 MHz (CH134)	Fig.72	Р
	5755 MHz (CH151)	Fig.73	Р
	5795 MHz (CH159)	Fig.74	Р
	5210 MHz (CH42)	Fig.75	Р
	5290 MHz (CH58)	Fig.76	Р
802.11ac-VHT80	5530 MHz (CH106)	Fig.77	Р
	5610MHz (Ch122)	Fig.78	Р
	5775 MHz (CH155)	Fig.79	Р

Note: For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

See below for test graphs. Conclusion: PASS



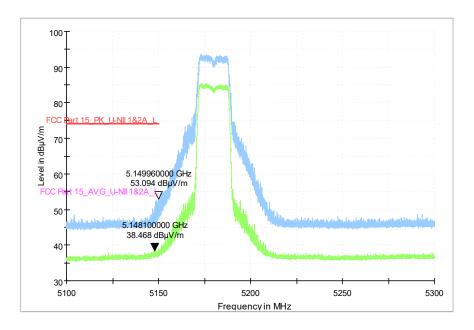


Fig. 63 Band Edges (802.11a, CH36 5180MHz)

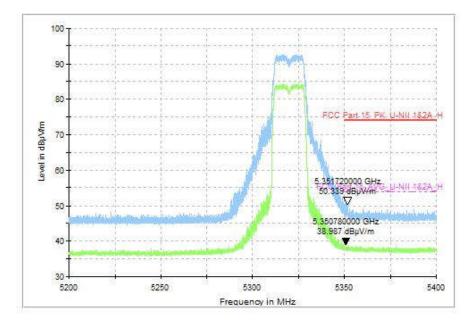


Fig. 64 Band Edges (802.11a, CH64 5320MHz)



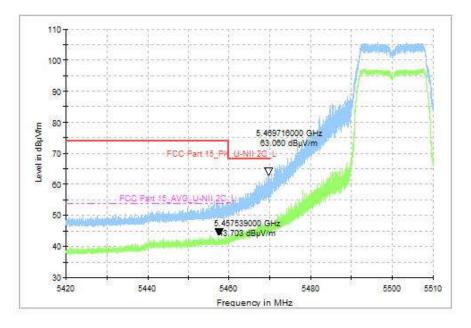


Fig. 65 Band Edges (802.11a, CH100 5500MHz)

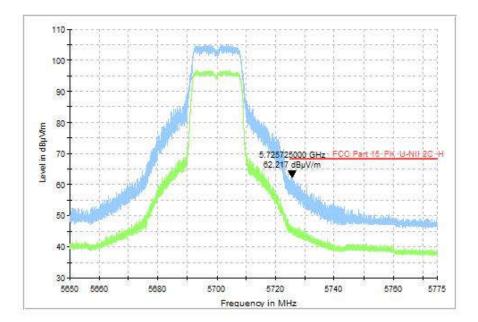


Fig. 66 Band Edges (802.11a, CH140 5700MHz)



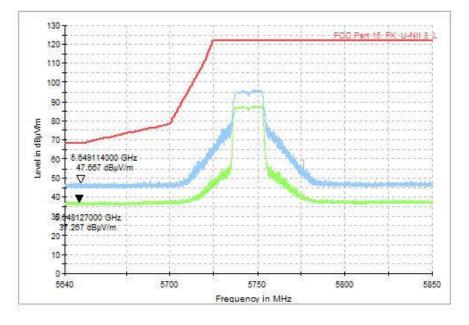


Fig. 67 Band Edges (802.11a, CH149 5745MHz)

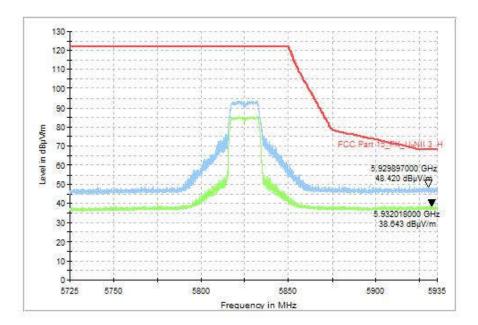


Fig. 68 Band Edges (802.11a, CH165 5825MHz)



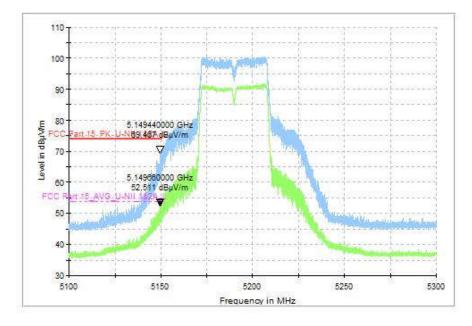


Fig. 69 Band Edges (802.11n-HT40, CH38 5190MHz)

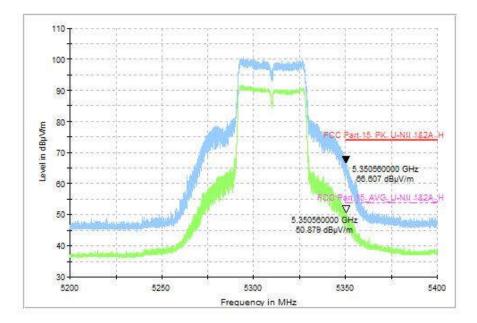


Fig. 70 Band Edges (802.11n-HT40, CH62 5310MHz)



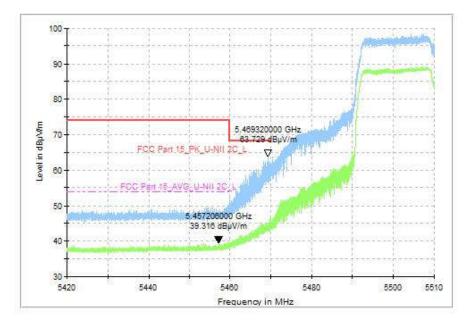


Fig. 71 Band Edges (802.11n-HT40, CH102 5510MHz)

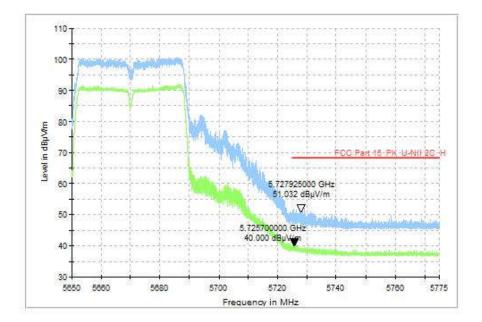


Fig. 72 Band Edges (802.11n-HT40, CH134 5670MHz)



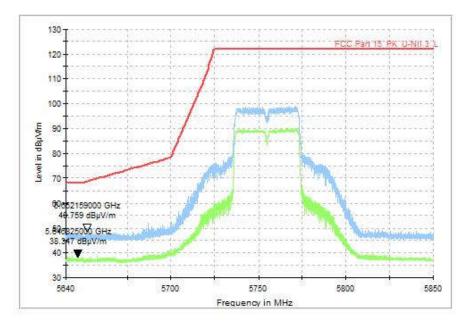


Fig. 73 Band Edges (802.11n-HT40, CH151 5755MHz)

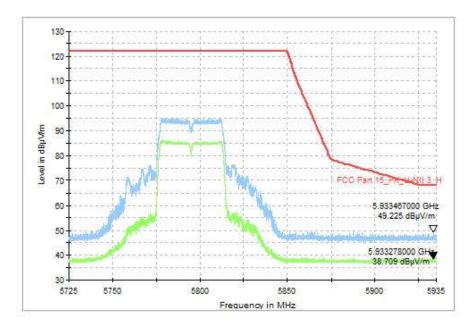


Fig. 74 Band Edges (802.11n-HT40, CH159 5795MHz)



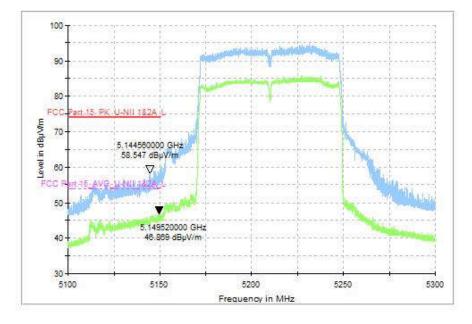


Fig. 75 Band Edges (802.11ac-VHT80, CH42 5210MHz)

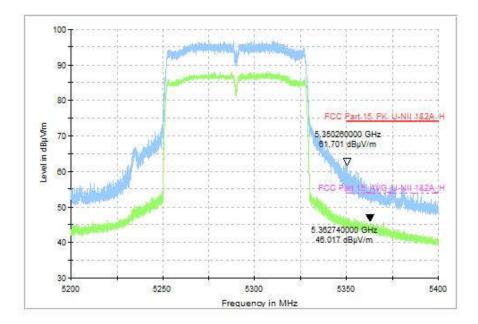


Fig. 76 Band Edges (802.11ac-VHT80, CH58 5290MHz)



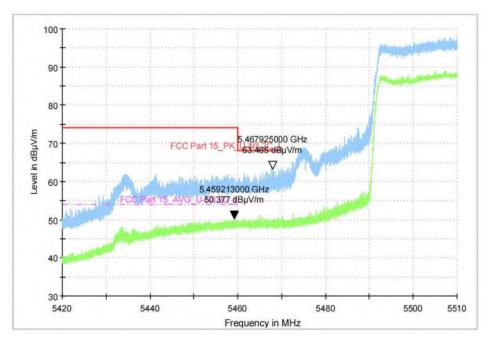


Fig. 77 Band Edges (802.11ac-VHT80, CH106 5530MHz)

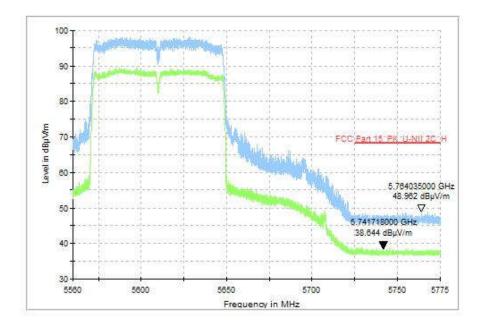


Fig. 78 Band Edges (802.11ac-VHT80, CH122 5610MHz)



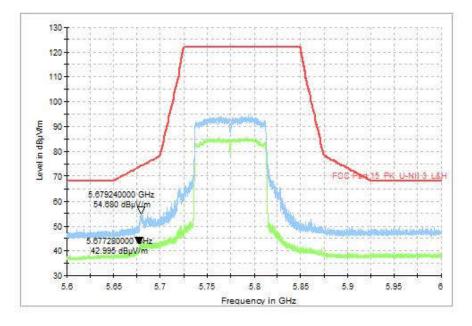


Fig. 79 Band Edges (802.11ac-VHT80, CH155 5775MHz)



A.9. Transmitter Spurious Emission

Measurement of method: See KDB 789033 D02 v02r01, Section G.3, G.4, G.5 and G.6.

Measurement Limit:

Standard	Limit (dBµV/m)		
FCC 47 CFR Part 15.209	Peak	74	
	Average	54	

The measurement is made according to KDB 789033.

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (dBμV/m)	Measurement distance (m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: For frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m.

The measurement results include the horizontal polarization and vertical polarization measurements.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Mode	Channel	Frequency Range	Test Results	Conclusion
	5180MHz (Ch36)	1 GHz ~18 GHz	Fig.80	Р
	5200MHz (Ch40)	1 GHz ~18 GHz	Fig.81	Р
	5240MHz (Ch48)	1 GHz ~18 GHz	Fig.82	Р
	5260MHz (Ch52)	1 GHz ~18 GHz	Fig.83	Р
	5280MHz (Ch56)	1 GHz ~18 GHz	Fig.84	Р
802.11a	5320MHz (Ch64)	1 GHz ~18 GHz	Fig.85	Р
002.11a	5500MHz (Ch100)	1 GHz ~18 GHz	Fig.86	Р
	5600MHz (Ch120)	1 GHz ~18 GHz	Fig.87	Р
	5700MHz (Ch140)	1 GHz ~18 GHz	Fig.88	Р
	5745MHz (Ch149)	1 GHz ~18 GHz	Fig.89	Р
	5785MHz (Ch157)	1 GHz ~18 GHz	Fig.90	Р
	5825MHz (Ch165)	1 GHz ~18 GHz	Fig.91	Р
802.11n-	5190MHz (Ch38)	1 GHz ~18 GHz	Fig.92	Р
802.11n- HT40	5230MHz (Ch46)	1 GHz ~18 GHz	Fig.93	Р
11140	5270MHz (Ch54)	1 GHz ~18 GHz	Fig.94	Р

Measurement Result:

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	5310MHz (Ch62)	1 GHz ~18 GHz	Fig.95	Р
	. ,			-
	5510MHz (Ch102)	1 GHz ~18 GHz	Fig.96	Р
	5580MHz (Ch118)	1 GHz ~18 GHz	Fig.97	Р
	5670MHz (Ch134)	1 GHz ~18 GHz	Fig.98	Р
	5755MHz (Ch151)	1 GHz ~18 GHz	Fig.99	Р
	5795MHz (Ch159)	1 GHz ~18 GHz	Fig.100	Р
	5210MHz (Ch42)	1 GHz ~18 GHz	Fig.101	Р
000 11	5290MHz (Ch58)	1 GHz ~18 GHz	Fig.102	Р
802.11ac -VHT80	5530MHz (Ch106)	1 GHz ~18 GHz	Fig.103	Р
-100	5610MHz (Ch122)	1 GHz ~18 GHz	Fig.104	Р
	5775MHz (Ch155)	1 GHz ~18 GHz	Fig.105	Р
	·	30 MHz ~1 GHz	Fig.106	Р
All channels		18 GHz ~26.5 GHz	Fig.107	Р
		26.5GHz~40GHz	Fig.108	Р

Worst Case Result:

802.11a CH40

Frequency	MaxPeak	Limit	Margin	Pol	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	POI	(dB/m)
8249.076923	45.17	74.00	28.83	V	5.9
10913.538462	46.19	74.00	27.81	Н	9.4
11660.307692	47.49	74.00	26.51	V	9.9
12473.076923	47.44	74.00	26.56	V	11.3
15887.538462	50.57	74.00	23.43	V	14.0
17988.000000	54.79	74.00	19.21	V	19.2

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
8249.076923	34.10	54.00	19.90	V	5.9
10913.538462	35.85	54.00	18.15	Н	9.4
11660.307692	37.30	54.00	16.70	V	9.9
12473.076923	36.92	54.00	17.08	V	11.3
15887.538462	40.85	54.00	13.15	V	14.0
17988.000000	43.76	54.00	10.24	V	19.2



802.11n-HT40 CH62

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7600.153846	44.95	74.00	29.05	V	5.7
10914.923077	46.46	74.00	27.54	Н	9.4
11633.076923	48.03	74.00	25.97	V	9.9
12424.153846	46.99	74.00	27.01	V	11.4
15916.153846	51.83	74.00	22.17	Н	14.1
17964.461539	54.58	74.00	19.42	V	19.1

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7600.153846	33.86	54.00	20.14	V	5.7
10914.923077	36.17	54.00	17.83	Н	9.4
11633.076923	37.09	54.00	16.91	V	9.9
12424.153846	37.15	54.00	16.86	V	11.4
15916.153846	40.98	54.00	13.02	Н	14.1
17964.461539	43.41	54.00	10.59	V	19.1

802.11ac-VHT80 CH58

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7485.692308	44.52	74.00	29.48	V	5.7
10881.230769	46.66	74.00	27.34	Н	9.3
11601.230769	46.66	74.00	27.34	Н	10.0
12454.615385	47.79	74.00	26.21	V	11.4
15787.846154	50.38	74.00	23.62	V	14.0
17955.692308	54.23	74.00	19.77	V	19.0

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
7485.692308	33.38	54.00	20.62	V	5.7
10881.230769	35.86	54.00	18.14	Н	9.3
11601.230769	36.87	54.00	17.13	Н	10.0
12454.615385	37.19	54.00	16.81	V	11.4
15787.846154	39.99	54.00	14.01	V	14.0
17955.692308	43.36	54.00	10.64	V	19.0

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss. P_{Mea} is the field strength recorded from the instrument. The measurement results are obtained as described below:

 $Result = P_{Mea} + A_{Rpl} = P_{Mea} + Cable Loss + Antenna Factor$

See below for test graphs.

Conclusion: PASS

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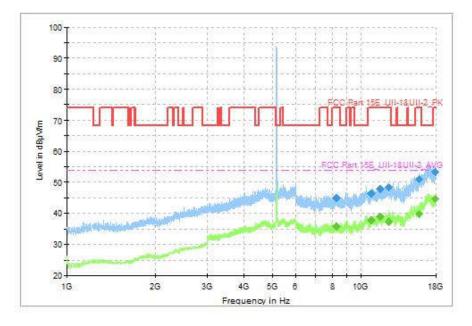


Fig. 80 Transmitter Spurious Emission (802.11a, CH36 5180MHz, 1 GHz-18 GHz)

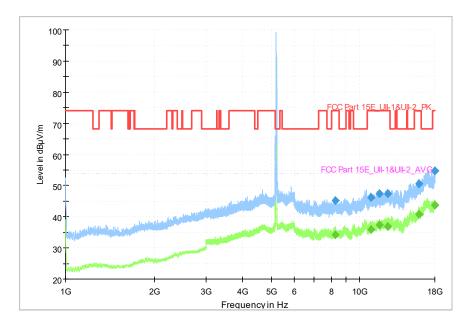


Fig. 81 Transmitter Spurious Emission (802.11a, CH40 5200MHz, 1 GHz-18 GHz)



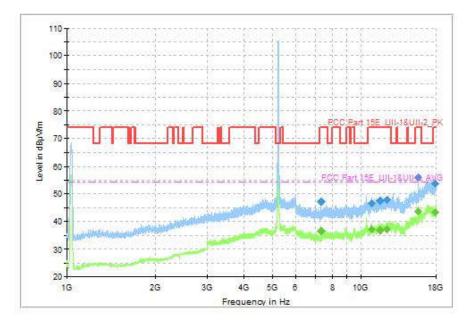


Fig. 82 Transmitter Spurious Emission (802.11a, CH48 5240MHz, 1 GHz-18 GHz)

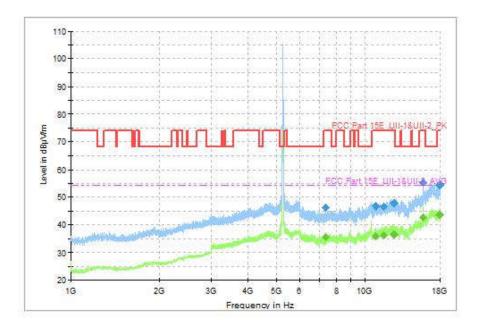


Fig. 83 Transmitter Spurious Emission (802.11a, CH52 5260MHz, 1 GHz-18 GHz)



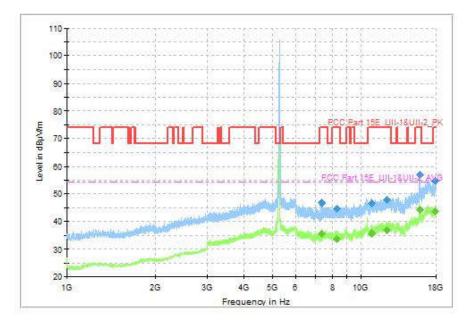


Fig. 84 Transmitter Spurious Emission (802.11a, CH56 5280MHz, 1 GHz-18 GHz)

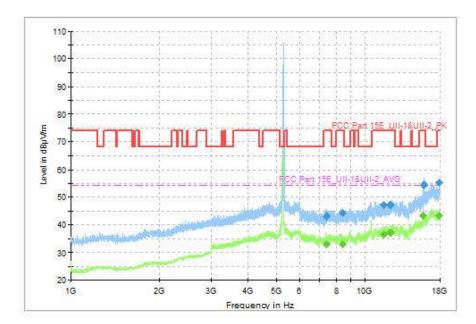


Fig. 85 Transmitter Spurious Emission (802.11a, CH64 5320MHz, 1 GHz-18 GHz)



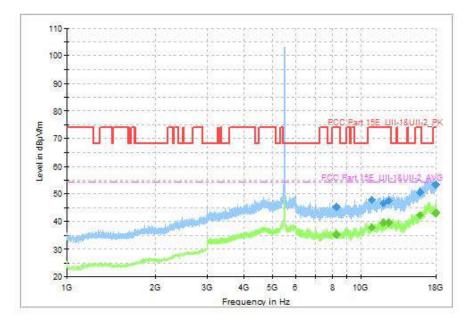


Fig. 86 Transmitter Spurious Emission (802.11a, CH100 5500MHz, 1 GHz-18 GHz)

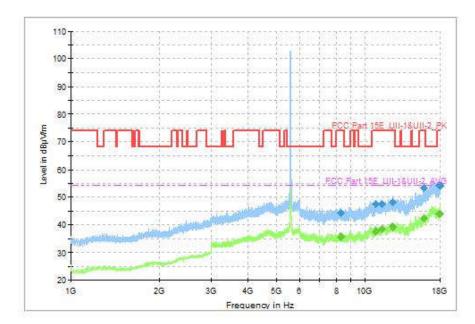


Fig. 87 Transmitter Spurious Emission (802.11a, CH120 5600MHz, 1 GHz-18 GHz)



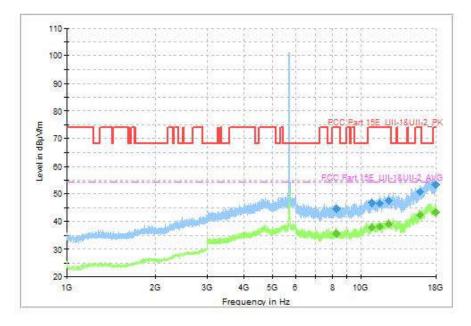


Fig. 88 Transmitter Spurious Emission (802.11a, CH140 5700MHz, 1 GHz-18 GHz)

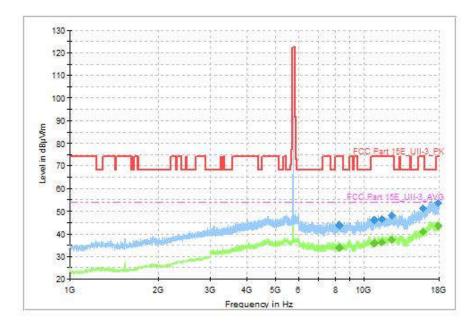


Fig. 89 Transmitter Spurious Emission (802.11a, CH149 5745MHz, 1 GHz-18 GHz)



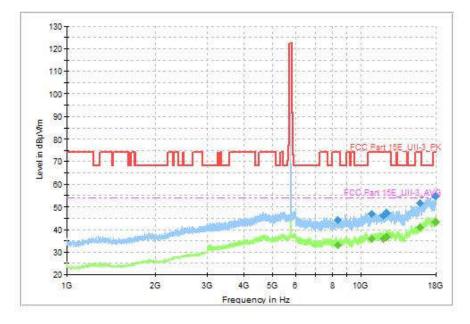


Fig. 90 Transmitter Spurious Emission (802.11a, CH157 5785MHz, 1 GHz-18 GHz)

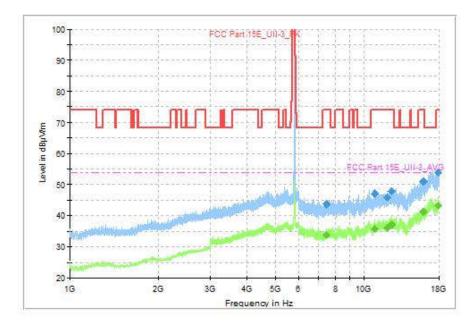


Fig. 91 Transmitter Spurious Emission (802.11a, CH165 5825MHz, 1 GHz-18 GHz)



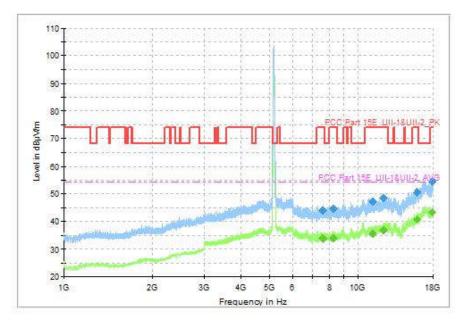


Fig. 92 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz, 1 GHz-18 GHz)

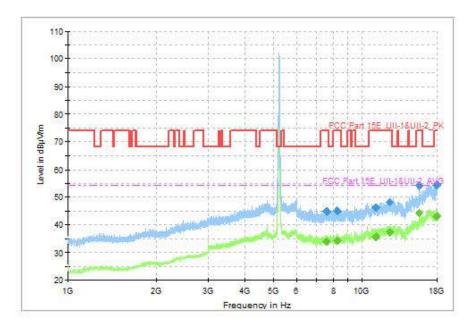


Fig. 93 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz, 1 GHz-18 GHz)



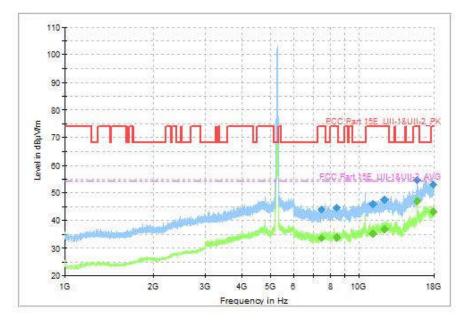


Fig. 94 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz, 1 GHz-18 GHz)

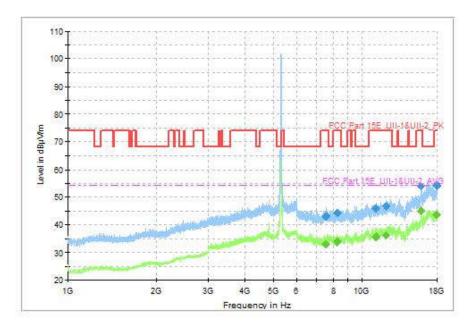


Fig. 95 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz, 1 GHz-18 GHz)



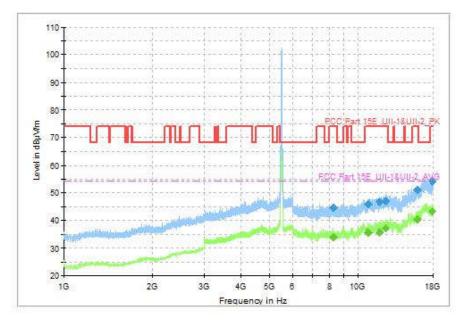


Fig. 96 Transmitter Spurious Emission (802.11n-HT40, CH102 5510MHz, 1 GHz-18 GHz)

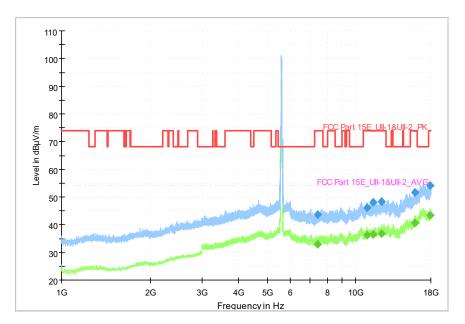


Fig. 97 Transmitter Spurious Emission (802.11n-HT40, CH118 5580MHz, 1 GHz-18 GHz)



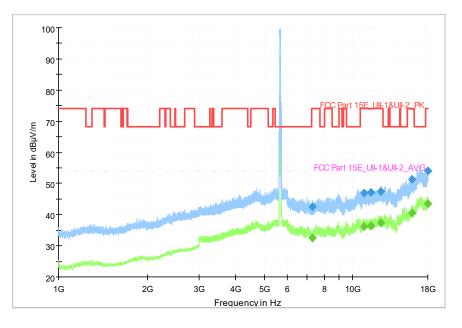


Fig. 98 Transmitter Spurious Emission (802.11n-HT40, CH134 5670MHz, 1 GHz-18 GHz)

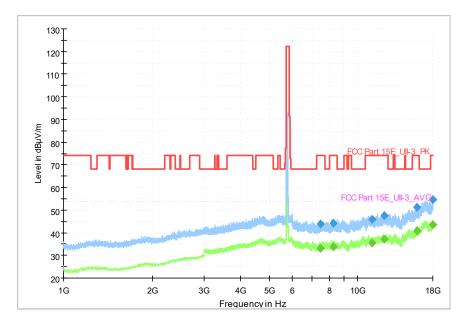
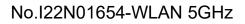


Fig. 99 Transmitter Spurious Emission (802.11n-HT40, CH151 5755MHz, 1 GHz-18 GHz)





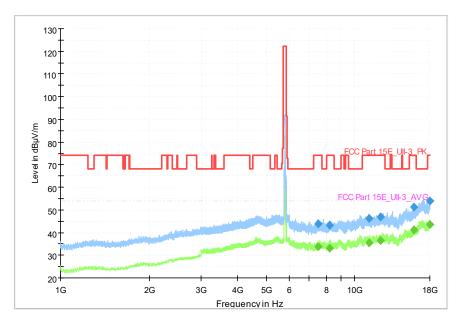


Fig. 100 Transmitter Spurious Emission (802.11n-HT40, CH159 5795MHz, 1 GHz-18 GHz)

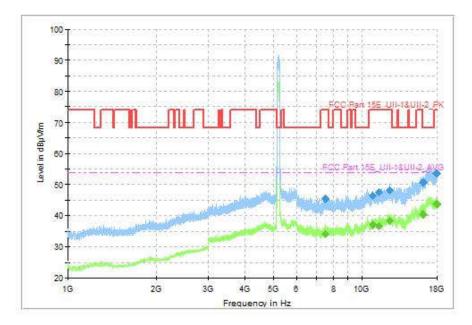


Fig. 101 Transmitter Spurious Emission (802.11ac-VHT80, CH42 5210MHz, 1 GHz-18 GHz)



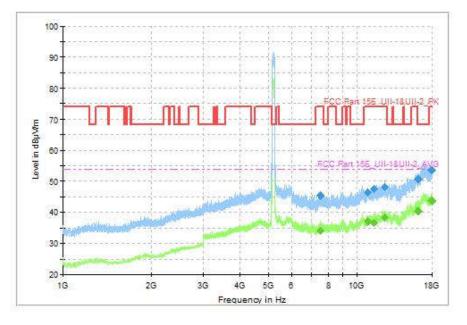


Fig. 102 Transmitter Spurious Emission (802.11ac-VHT80, CH58 5290MHz, 1 GHz-18 GHz)

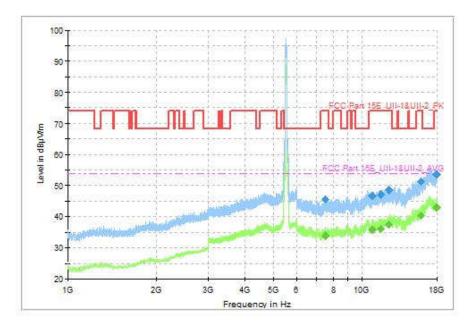


Fig. 103 Transmitter Spurious Emission (802.11ac-VHT80, CH106 5530MHz, 1 GHz-18 GHz)



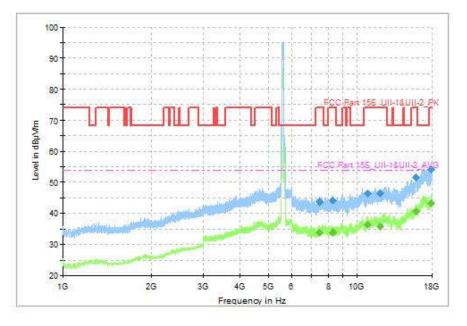


Fig. 104 Transmitter Spurious Emission (802.11ac-VHT80, CH122 5610MHz, 1 GHz-18 GHz)

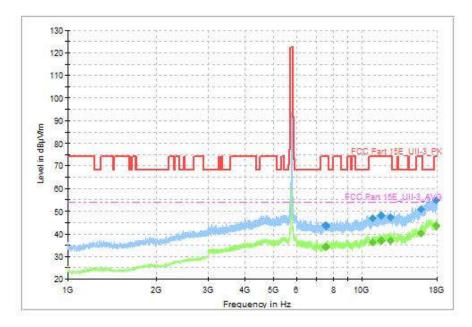
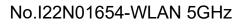


Fig. 105 Transmitter Spurious Emission (802.11ac-VHT80, CH155 5775MHz, 1 GHz-18 GHz)





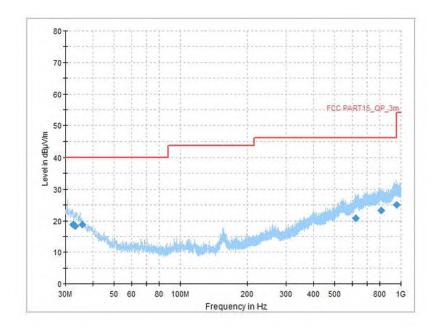


Fig. 106 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

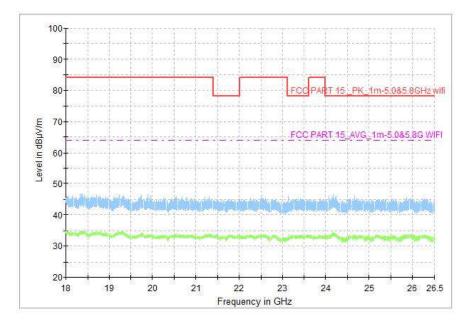


Fig. 107 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)



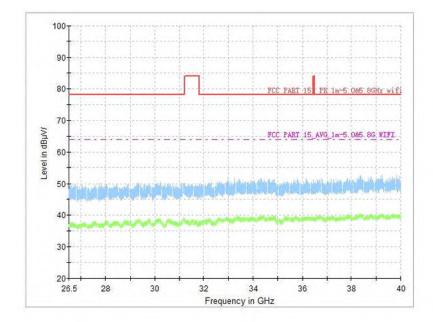


Fig. 108 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)



A.10. Radiated Spurious Emissions < 30MHz

Method of Measurement: See ANSI C63.10-clause 6.4.

Measurement Limit (15.209, 9 kHz-30MHz):

Frequency	Field strength	Measurement distance
(MHz)	(µV/m)	(m)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

The measurement is made according to KDB 789033.

Note: The measurement distance during the test is 3m. The limit used in plots recalculated based on the extrapolation factor of 40 dB/decade.

The measurement results include the horizontal polarization and vertical polarization measurements.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Measurement Result (Worst case):

Mode	Frequency Range	Test Results	Conclusion	
All Channel	All Channel 9 kHz ~30 MHz		Р	

See below for test graphs. Conclusion: PASS

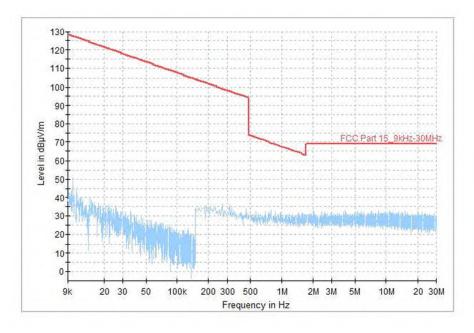


Fig. 109 Radiated Spurious Emission (All Channel, 9 kHz ~30 MHz)



A.11. AC Power Line Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2.

Test Condition:

Voltage (V)	Frequency (Hz)		
120	60		

Measurement Result and limit:

RLAN-A2, A3, AE4

Frequency range	Quasi-peak	Average-peak	Result (dBµV)		Result (dBµV)		Conclusion
(MHz)	Limit (dBµV)	Limit (dBμV)	Traffic	Idle	Conclusion		
0.15 to 0.5	66 to 56	56 to 46					
0.5 to 5	56	46	Fig.110	Fig.111	Р		
5 to 30	60	50					
			e 11 e				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: The measurement results include the L1 and N measurements.

See below for test graphs. Conclusion: PASS



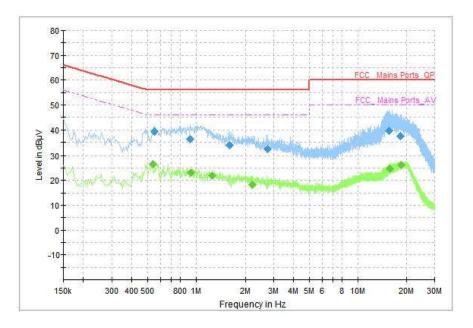


Fig. 110 AC Power line Conducted Emission (Traffic)

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)		
0.550000	39.44	56.00	16.56	L1	ON	10		
0.922000	36.33	56.00	19.67	L1	ON	10		
1.606000	33.75	56.00	22.25	Ν	ON	10		
2.746000	32.15	56.00	23.85	Ν	ON	10		
15.702000	39.60	60.00	20.40	Ν	ON	11		
18.490000	37.51	60.00	22.49	Ν	ON	10		

Measurement Result: Quasi Peak

Measurement Result: Average

Frequency	Average	Limit	Margin	Line	Line Filter	Corr.
(MHz)	(dBµV)	(dBµV)	(dB)			(dB)
0.538000	26.38	46.00	19.62	L1	ON	10
0.926000	23.16	46.00	22.84	L1	ON	10
1.254000	21.98	46.00	24.02	N	ON	10
2.206000	18.12	46.00	27.88	N	ON	10
15.850000	24.78	50.00	25.22	N	ON	11
18.622000	26.07	50.00	23.93	N	ON	10



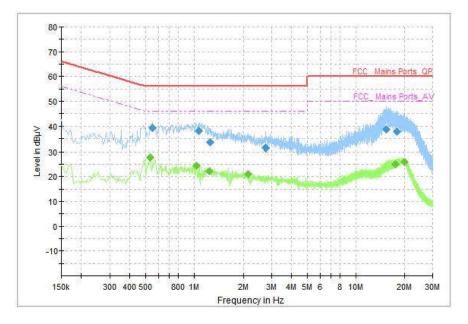


Fig. 111 AC Power line Conducted Emission (Idle)

Frequency	Quasi Peak	Limit	Margin	Line	Filter	Corr.		
(MHz)	(dBµV)	(dBµV)	(dB)			(dB)		
0.550000	39.41	56.00	16.59	L1	ON	10		
1.074000	38.23	56.00	17.77	L1	ON	10		
1.254000	33.60	56.00	22.40	L1	ON	10		
2.746000	31.35	56.00	24.65	N	ON	10		
15.490000	38.83	60.00	21.17	N	ON	11		
17.934000	37.75	60.00	22.25	N	ON	10		

Measurement Result: Quasi Peak

Measurement Result: Average

Frequency	Average	Limit	Margin	Line	Filter	Corr.
(MHz)	(dBµV)	(dBµV)	(dB)			(dB)
0.534000	27.66	46.00	18.34	L1	ON	10
1.034000	24.34	46.00	21.66	L1	ON	10
1.250000	22.22	46.00	23.78	N	ON	10
2.154000	21.06	46.00	24.94	N	ON	10
17.594000	25.08	50.00	24.92	N	ON	11
20.098000	25.82	50.00	24.18	N	ON	10



A.12. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500mW).

END OF REPORT