

Prüfbericht-Nr.: <i>Test Report No.:</i>	50302724 001	Auftrags-Nr.: <i>Order No.:</i>	238106853	Seite 1 von 46 <i>Page 1 of 46</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	03-Oct-2019	
Auftraggeber: <i>Client:</i>	REYAX TECHNOLOGY CO.,LTD. 4F.-15, No.26, Ln. 321, Yangguang St., Neihu Dist. Taipei City Taiwan			
Prüfgegenstand: <i>Test item:</i>	2.4GHz Wi-Fi / Bluetooth Antenna module			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	RYWB116			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (DTS)			
Prüfgrundlage: <i>Test specification:</i>	FCC Part 15: Subpart C Section 15.247(DTS)			
Wareneingangsdatum: <i>Date of receipt:</i>	05-Aug-2019			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000953041-001 A000953041-002			
Prüfzeitraum: <i>Testing period:</i>	19-Aug-2019 - 3-Oct-2019			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Laboratory Taipei			
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland Taiwan Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
				
14-Jan-2020	Mars Y.J. Lin / Project Engineer	14-Jan-2020	Ryan W. T. Chen / Project Manager	
Datum	Name / Stellung	Datum	Name / Stellung	Unterschrift
<i>Date</i>	<i>Name / Position</i>	<i>Date</i>	<i>Name / Position</i>	<i>Signature</i>
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:		1 = sehr gut		
2 = gut		3 = befriedigend		
4 = ausreichend		5 = mangelhaft		
P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)		
N/A = nicht anwendbar		N/T = nicht getestet		
Legend:		1 = very good		
2 = good		3 = satisfactory		
4 = sufficient		5 = poor		
P(ass) = passed a.m. test specification(s)		F(ail) = failed a.m. test specification(s)		
N/A = not applicable		N/T = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 PEAK OUTPUT POWER

RESULT: Passed

5.1.3 6dB BANDWIDTH

RESULT: Passed

5.1.4 POWER DENSITY

RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100kHz BANDWIDTH

RESULT: Passed

5.1.6 SPURIOUS EMISSION

RESULT: Passed

5.2.1 MAINS CONDUCTED EMISSIONS

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

The following attachments are integral parts of this test report:

Appendix P: Photo Documentation internal view
(File Name: 50302724 001 APPENDIX P)

Appendix D: Test Result of Radiated Emissions
(File Name: 50302724 001 APPENDIX D)

Test Specifications

The following standards were applied.

Table 1: Applied Standard and Test Levels

Radio
FCC Part 15: Subpart C Section 15.247 FCC Part 2 :1091 ANSI C63.10:2013 KDB558074 D01 DTS Meas Guidance v05

1.2 Decision Rule of conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard

2. Test Sites

2.1 Test Laboratory

TUV Rheinland Taiwan Ltd.

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

TUV Rheinland Taiwan Ltd.

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)
FCC Registration No.: 180491
IC Canada Registration No.: 9465A

TAF Accredited NCC Test Lab. No.:3567

TAF ISO17025 Certification effective period: 6th-May-2019 to 05th-May-2022



Testing Laboratory
3567

2.3 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESR 7	101062	2018/10/15	2019/10/15
Spectrum Analyzer	Rohde & Schwarz	FSV-40	100921	2019/04/30	2020/04/30
Pre-Amplifier	Hewlett Packard	8447F	2805A03335	2019/09/11	2020/09/11
Pre-Amplifier	EM Electronics	EM01G18G	060649	2019/09/11	2020/09/11
Pre-Amplifier	EMC Instruments	EMC184045SE	980609(980408)	2019/06/14	2020/06/14
Bilog Antenna	TESEQ	CBL 6111D	29802	2019/09/10	2020/09/10
Horn Antenna	ETS-Lindgren	3117	00138160	2019/06/24	2020/06/24
Horn Antenna	Com-Power	AH-840	101029	2018/12/22	2019/12/22
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	2019/07/11	2020/07/11
Test Software	Audix	e3	Ver. 9	N/A	N/A
Microwave Cable (9kHz to 18GHz)	HUBER+SUHNER	SUCOFLEX 104EA	800058/4EA	2019/05/27	2020/05/27
Microwave Cable (9kHz to 18GHz)	HUBER+SUHNER	SUCOFLEX 104	326264/4	2019/06/04	2020/06/04
Microwave Cable (9kHz to 18GHz)	HUBER+SUHNER	SUCOFLEX 104	MY31385/4	2019/06/24	2020/06/24
Microwave Cable (1GHz to 40GHz)	HUBER+SUHNER	SUCOFLEX 102EA	800900/2EA	2019/05/27	2020/05/27
Microwave Cable (1GHz to 40GHz)	HUBER+SUHNER	SUCOFLEX 102	36486/2	2019/06/24	2020/06/24
Microwave Cable (1GHz to 40GHz)	HUBER+SUHNER	SUCOFLEX 102	506263/2	2019/07/17	2020/07/17
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100797	2019/01/16	2020/01/16
Two-Line V-Network (for EUT)	Rohde & Schwarz	ENV216	101243	2019/06/23	2020/06/23
Two-Line V-Network	Rohde & Schwarz	ENV216	101262	2019/07/16	2020/07/16
Telecom ISN 4 Line	Fischer Custom Communications	FFCC-TLISN-T4-02-09	101168	2019/01/02	2020/01/02
Impedance Stabilization Network	TESEQ	ISN T800	51949	2019/02/20	2020/02/20
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54-102102-HN	2019/07/25	2020/07/25
Test Software	Audix	e3	Ver. 9	N/A	N/A
Spectrum Analyzer	R&S	FSV40	101513	2019/2/8	2020/2/8
Thermo Chamber	Giant Force	GHT-150-40-CP-SD	MAA1902-010	2019/2/1	2020/2/1
Signal Generator	R&S	SMB100A03	181335	2019/1/23	2020/1/23
Power Meter	Anritsu	ML2495A	1901008	2019/4/29	2020/4/28
Power Sensor	Anritsu	MA2411B	1725269	2019/4/29	2020/4/28

2.4 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.5 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular schedule using in house standards or comparisons.

2.6 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements .

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 0.1 ppm
RF power/RF Exposure(MPE), conducted	± 1.5 dB
RF power density, conducted	± 3 dB
spurious emissions, conducted	± 3 dB
all emissions, radiated	± 6 dB
Temperature	± 1 °C
Humidity	± 5 %
DC and low frequency voltages	± 3 %

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a WiFi/BT module. It contains a WiFi 2.4GHz and Bluetooth compatible module enabling the user to communicate data through a Wireless interface.
For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Table 4: Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	2.4GHz Wi-Fi / Bluetooth Antenna module
Type Identification	RYWB116
FCC ID	QLY-RYWB116

Table 5: Technical Specification of EUT

Technical Specification	Value
Operating Frequencies	2412~2462 MHz
Channel Spacing	5 MHz
Channel number	11
Operation Voltage	5 Vdc
Modulation	802.11b: DSSS (BPSK, QPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna gain	1.16 dBi

3.3 Independent Operation Modes

Basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Receiving
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Table 6: Table for Parameters of Test Software Setting

Mode	Channel Frequency		
	2412 MHz	2437 MHz	2462 MHz
802.11b	12	12	14
802.11g	18	18	18
802.11n20	18	18	18

4.2 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed in section 3.3 as appropriate.

The samples were used as follows:

Conducted: A000953041-002

Radiation: A000953041-001

Full test was applied on all test modes, but only worst case was shown

Test Software	QCOM V1.0
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4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

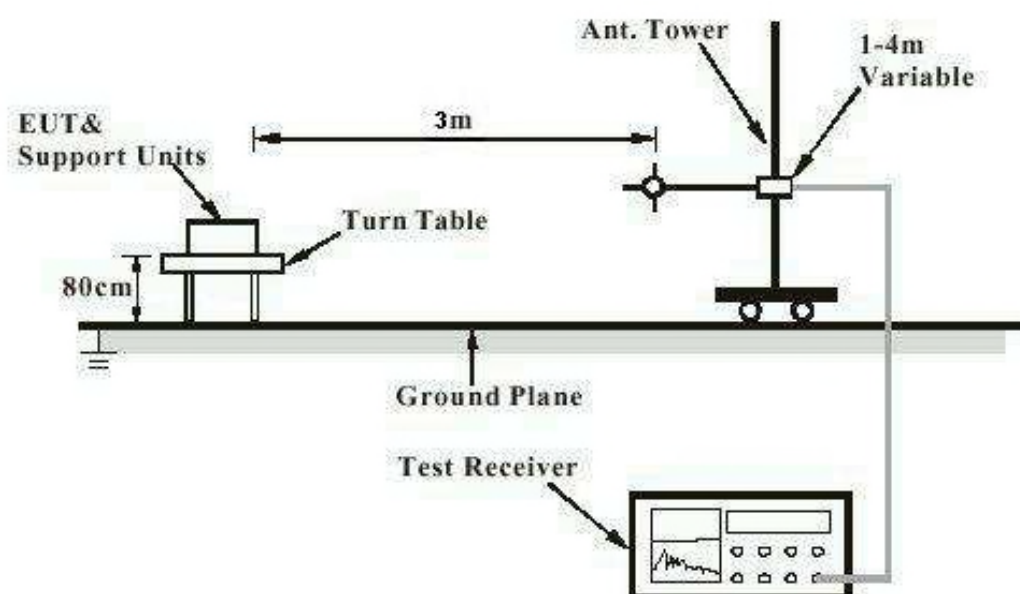
Description	Manufacturer	Model No.	Serial No.
Notebook(EMC-06)	Lenovo	TP00048A	PB-0F8B2

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1 GHz are done with a table height of 1.5m

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)

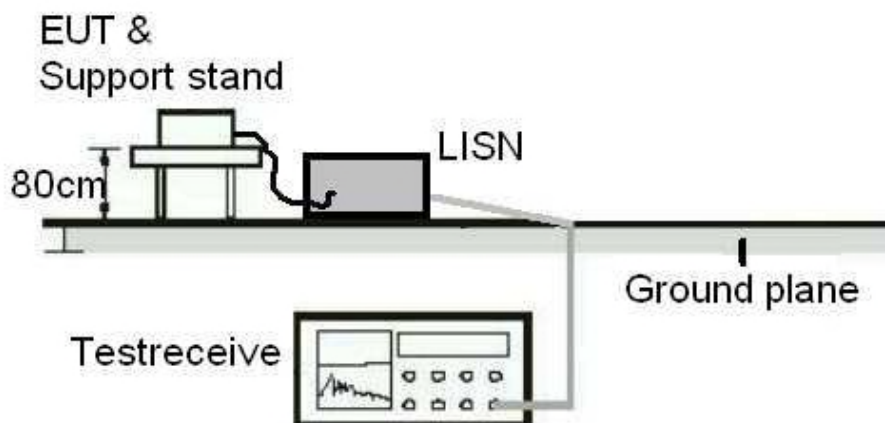
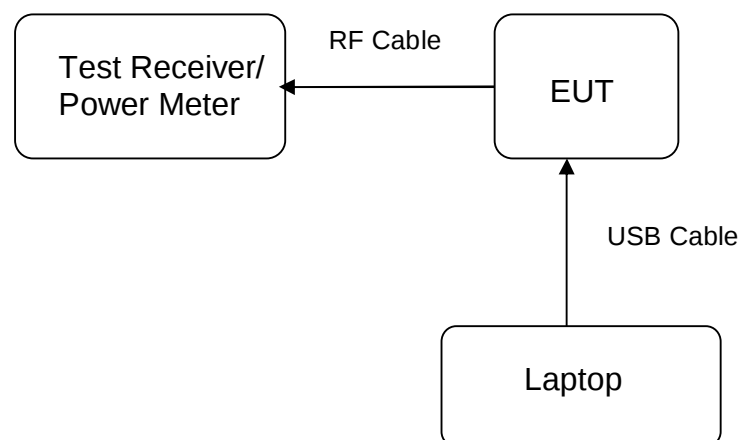


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test standard : FCC Part 15.247(b)(4), Part 15.203

Requirement : use of approved antennas only with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 1.16 dBi. The antenna is a printed PCB trace with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test standard : FCC Part 15.247(b)(3)
 Basic standard : ANSI C63.10:2013,KDB 558074
 Limit : 1 Watt
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A

Ambient temperature : 20-24 °C
 Relative humidity : 50-65 %
 Atmospheric pressure : 100-103 kPa

Table 7: Test result of Peak Output Power,802.11b

Channel	Channel Frequency (MHz)	Output Power			Limit
		(dBm)	(W)	AVG(dBm)	(W)
Low Channel	2412	10.54	0.01132	8.01	1
Middle Channel	2437	10.75	0.01189	8.23	1
High Channel	2462	12.35	0.01718	9.82	1

Table 8: Test result of Peak Output Power,802.11g

Channel	Channel Frequency (MHz)	Output Power			Limit
		(dBm)	(W)	AVG(dBm)	(W)
Low Channel	2412	10.56	0.01138	4.7	1
Middle Channel	2437	17.58	0.05728	12.15	1
High Channel	2462	12.45	0.01758	6.5	1

Table 9: Test result of Peak Output Power,802.11n20

Channel	Channel Frequency (MHz)	Output Power			Limit
		(dBm)	(W)	AVG(dBm)	(W)
Low Channel	2412	11.07	0.01279	4.85	1
Middle Channel	2437	18.72	0.07447	12.78	1
High Channel	2462	13.25	0.02113	6.71	1

5.1.3 6dB Bandwidth

RESULT:
Passed

Test standard : FCC Part 15.247(a)(2)
 Basic standard : ANSI C63.10:2013,KDB 558074
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A

Ambient temperature : 20-24°C
 Relative humidity : 50-65%
 Atmospheric pressure : 100-103 kPa

Table 10: Test result of 6dB Bandwidth (802.11b)

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low Channel	2412	9.057	>500	Pass
Mid Channel	2437	9.036	>500	Pass
High Channel	2462	8.569	>500	Pass

Table 11: Test result of 6dB Bandwidth (802.11g)

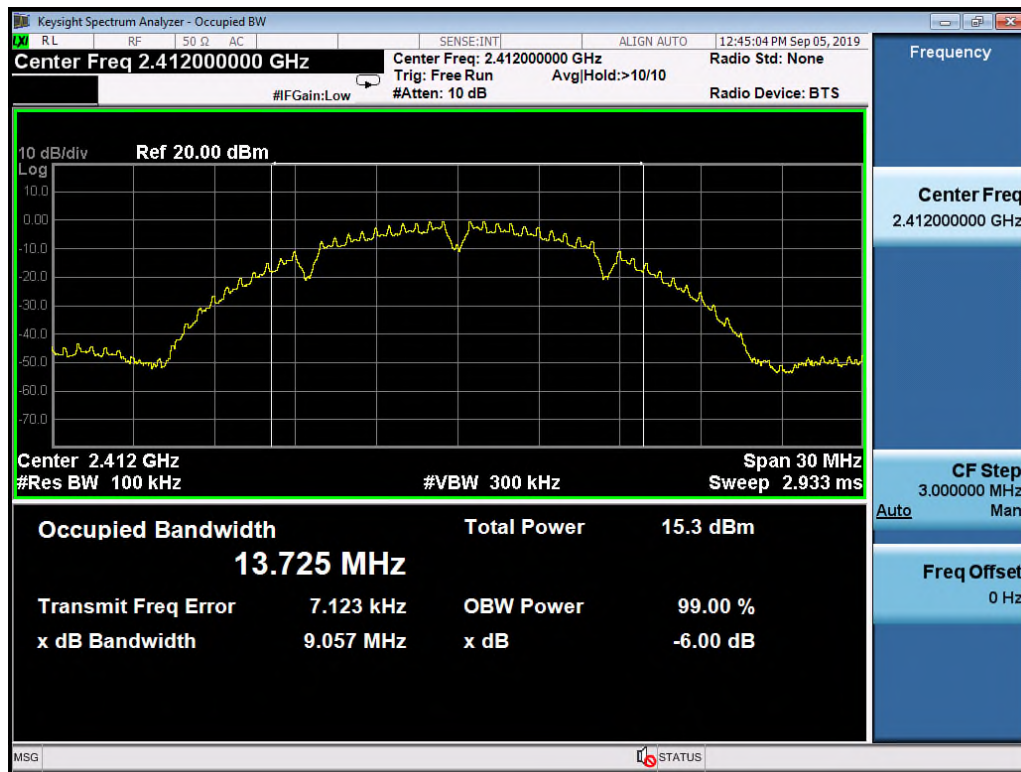
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low Channel	2412	16.62	>500	Pass
Mid Channel	2437	16.63	>500	Pass
High Channel	2462	16.57	>500	Pass

Table 12: Test result of 6dB Bandwidth (802.11n 20)

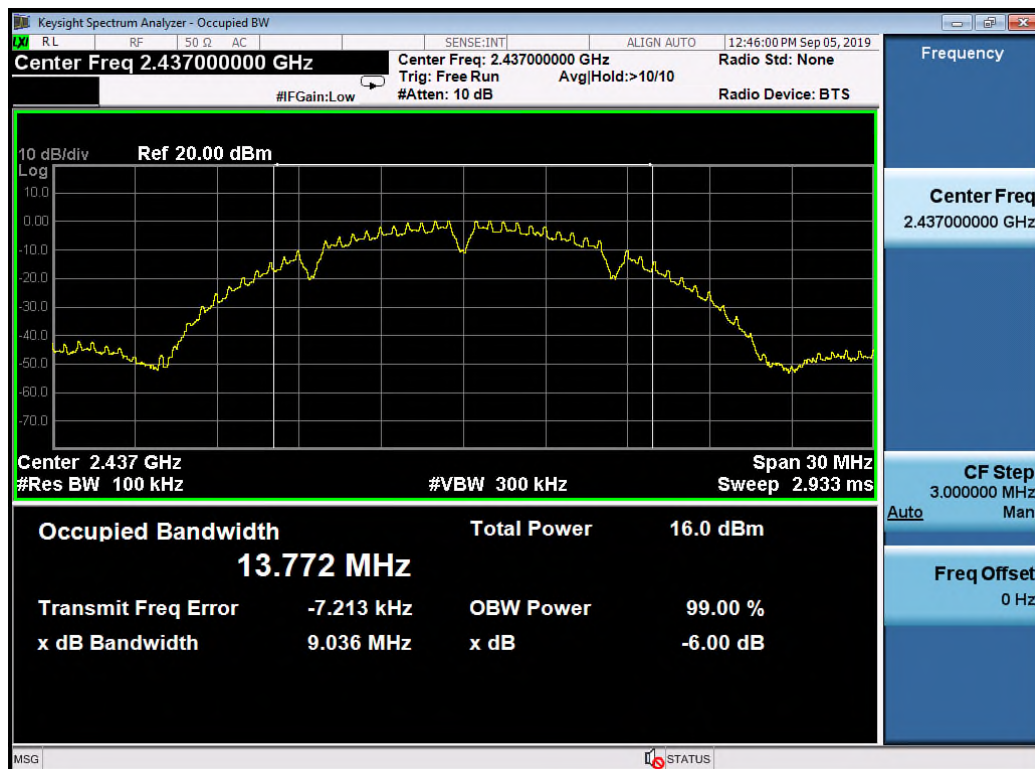
Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low Channel	2412	17.84	>500	Pass
Mid Channel	2437	17.85	>500	Pass
High Channel	2462	17.84	>500	Pass

Test Plot of 6dB Bandwidth(802.11b)

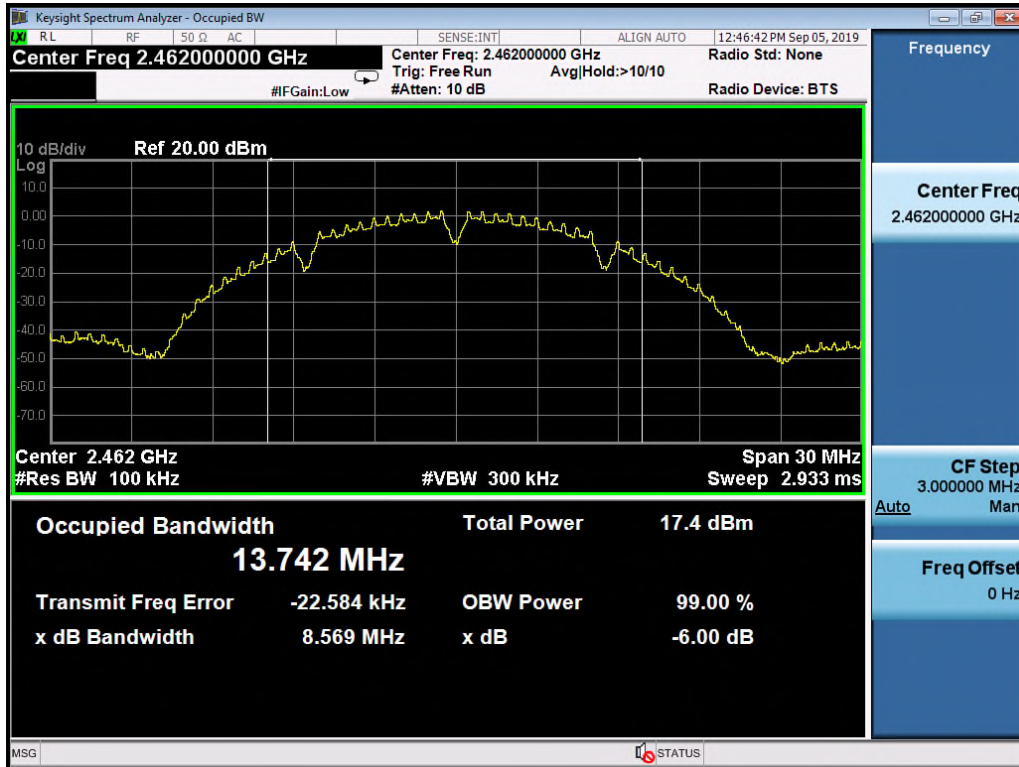
Low Channel



Middle Channel

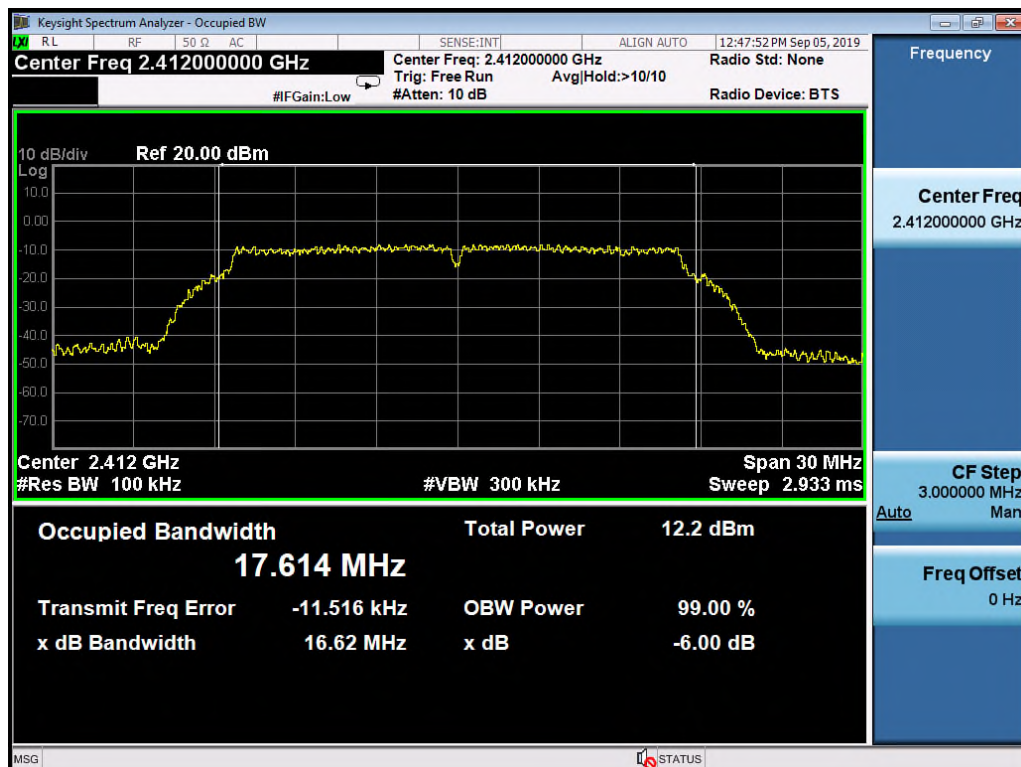


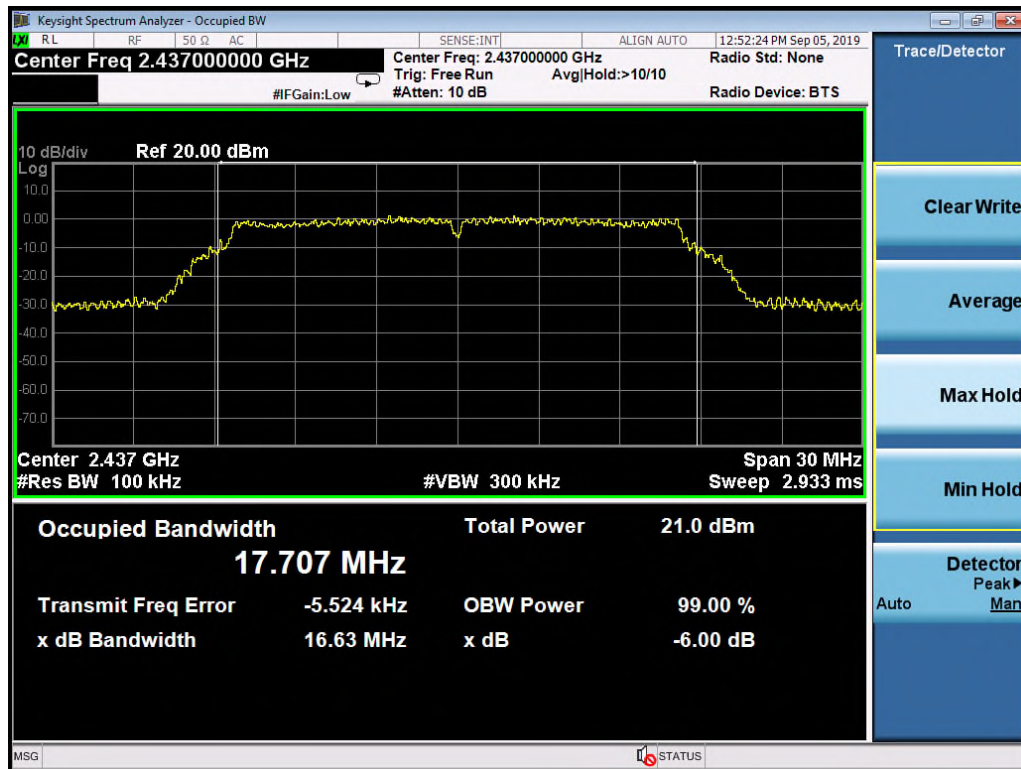
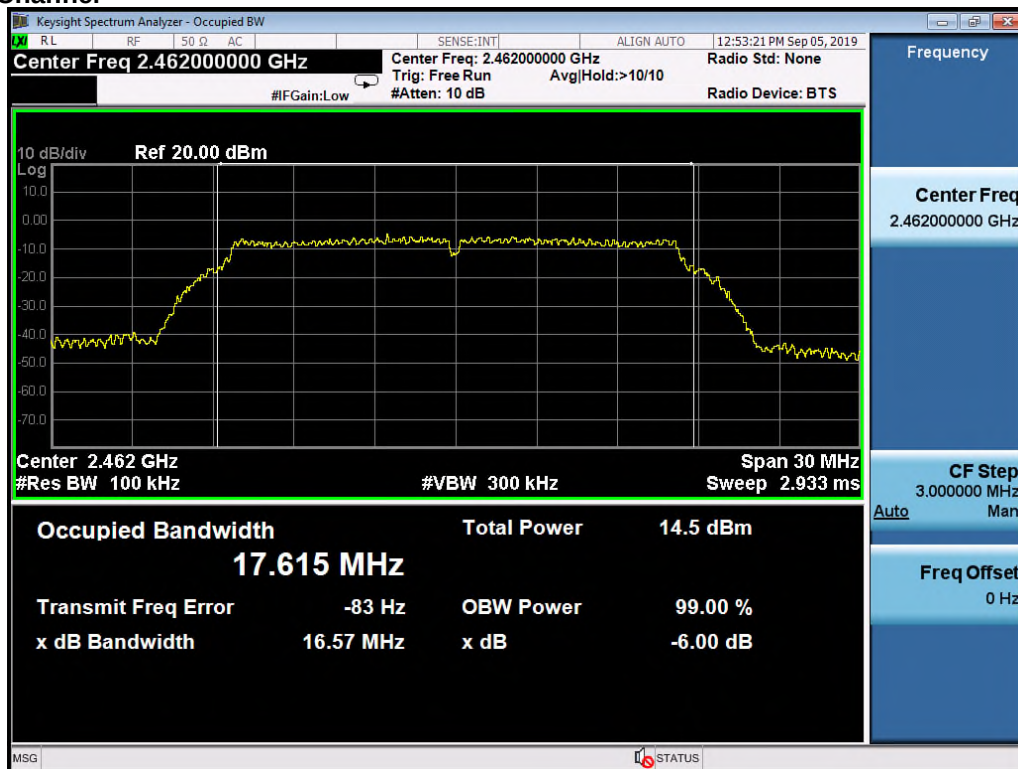
High Channel



Test Plot of 6dB Bandwidth(802.11g)

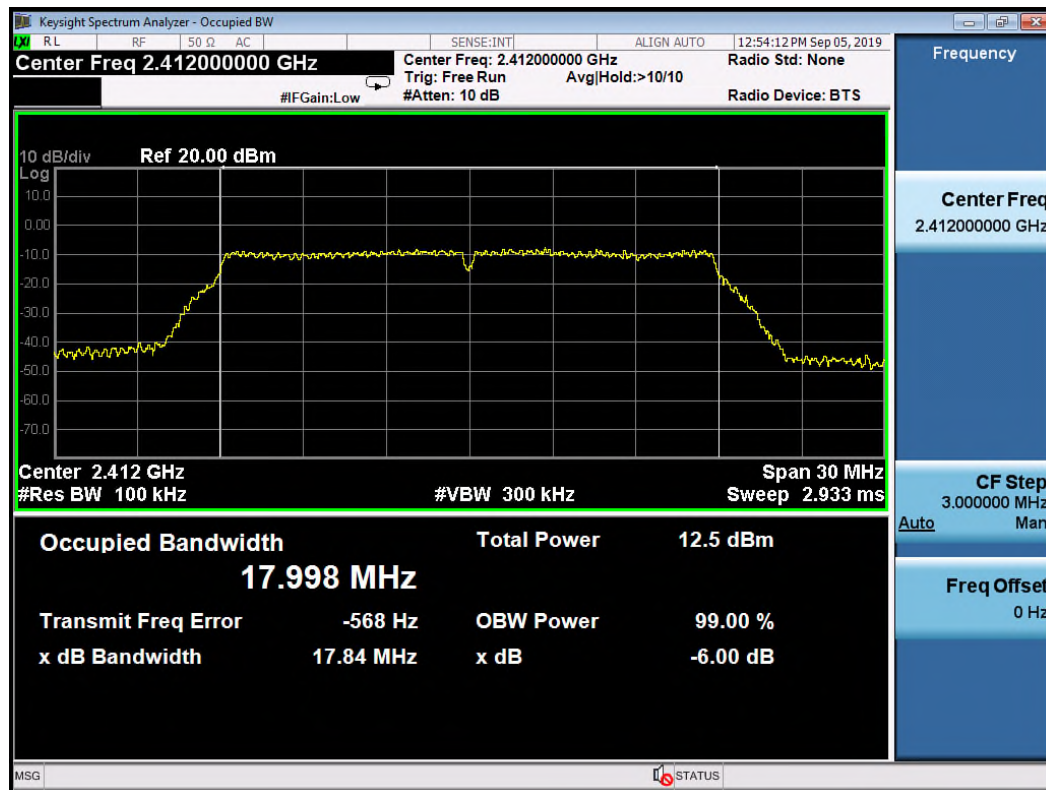
Low Channel



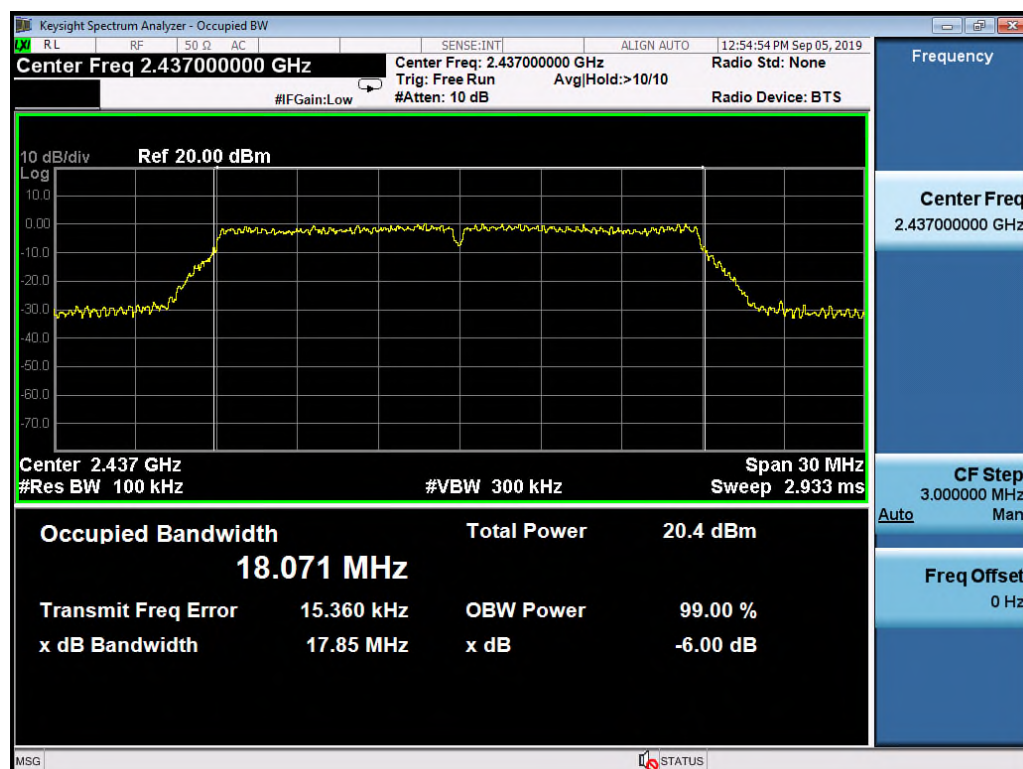
Middle Channel

High Channel


Test Plot of 6dB Bandwidth(802.11n 20)

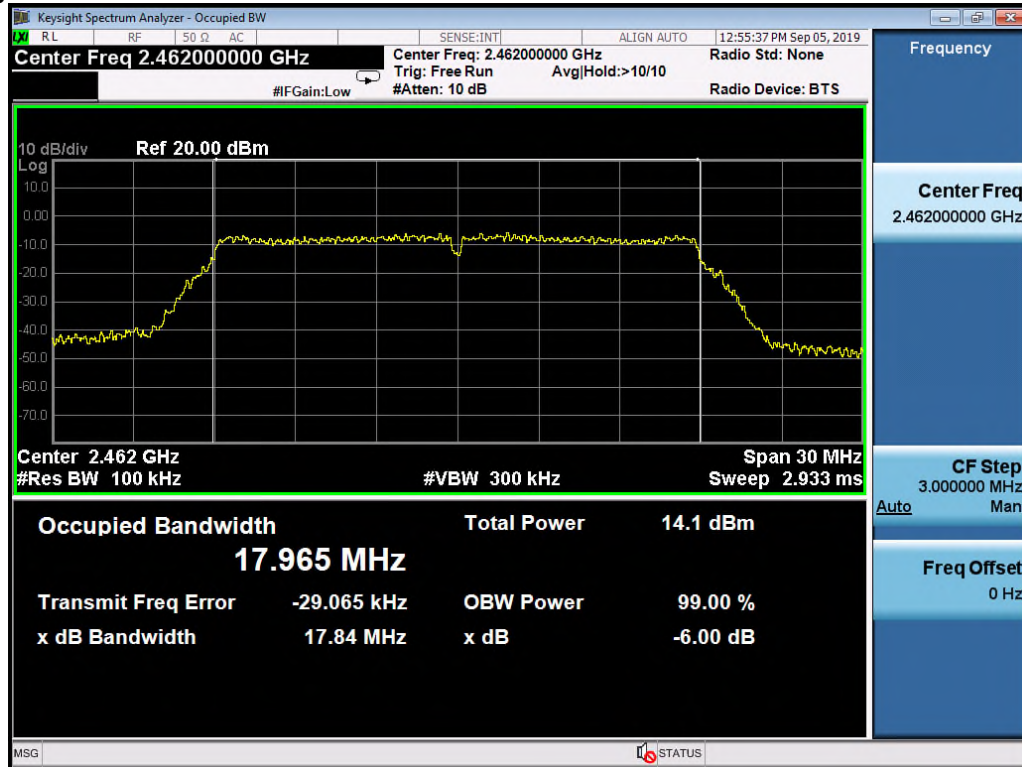
Low Channel



Middle Channel



High Channel



5.1.4 Power Density

RESULT:

Passed

Test standard : FCC Part 15.247(e)
 Basic standard : ANSI C63.10:2013,KDB 558074
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 20-24°C
 Relative humidity : 50-65%
 Atmospheric pressure : 100-103 kPa

Table 13: Test result of Power Density 802.11b

Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
Low Channel	2412	-15.31	8
Middle Channel	2437	-13.73	8
High Channel	2462	-13.04	8

Table 14: Test result of Power Density 802.11g

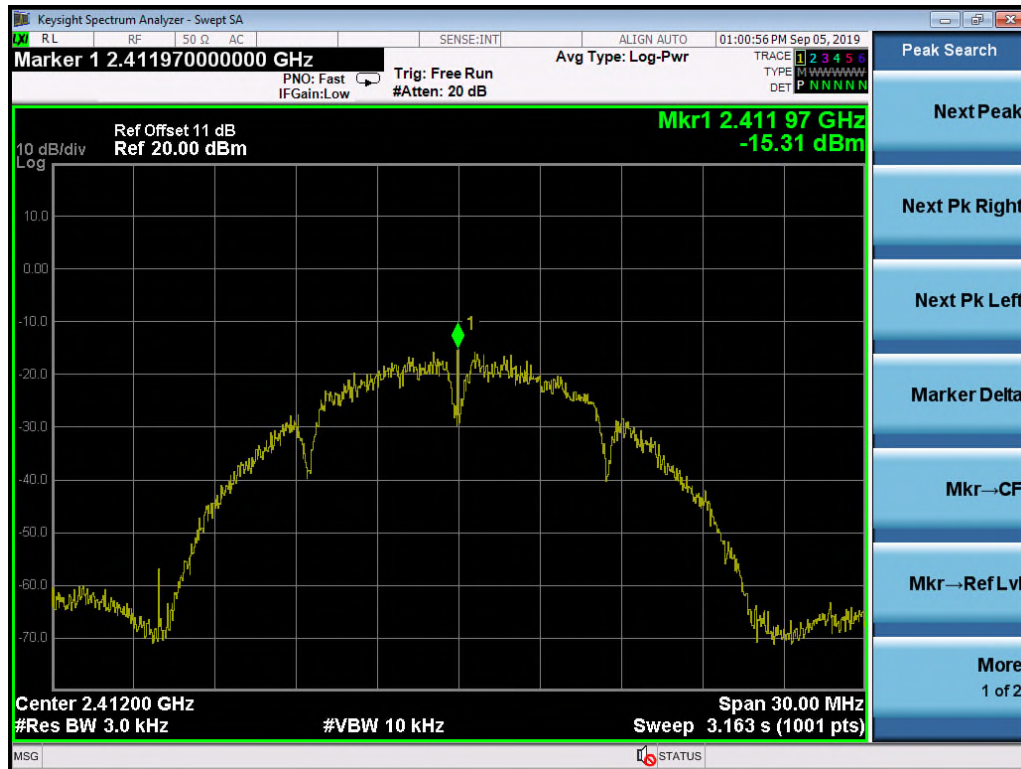
Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
Low Channel	2412	-20.38	8
Middle Channel	2437	-12.57	8
High Channel	2462	-18.09	8

Table 15: Test result of Power Density 802.11n 20

Channel	Channel Frequency (MHz)	Power Density	Limit
		(dBm)	(dBm)
Low Channel	2412	-20.93	8
Middle Channel	2437	-13.28	8
High Channel	2462	-18.82	8

Test Plot of Power Density 802.11b

Low Channel



Middle Channel

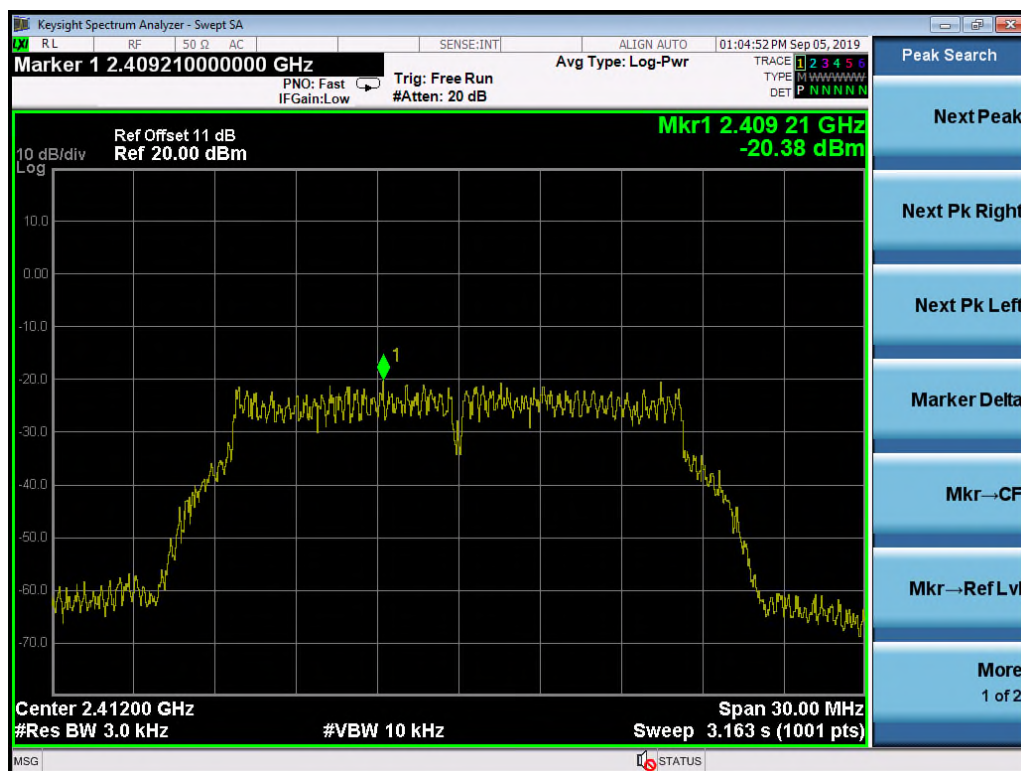


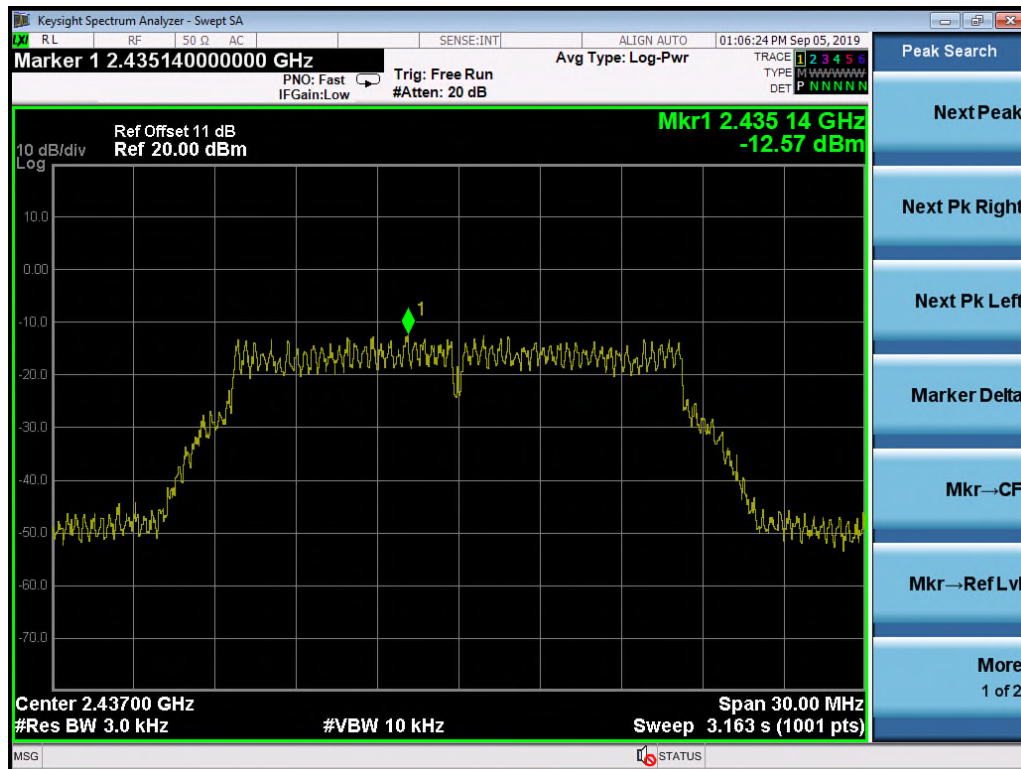
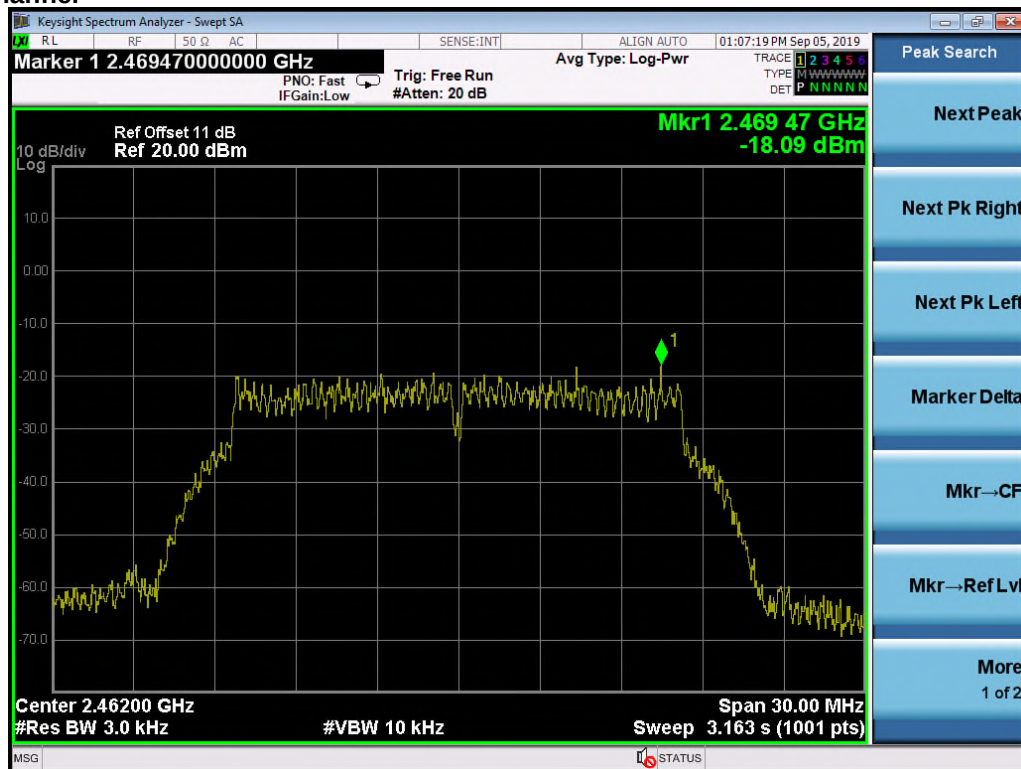
High Channel



Test Plot of Power Density 802.11g

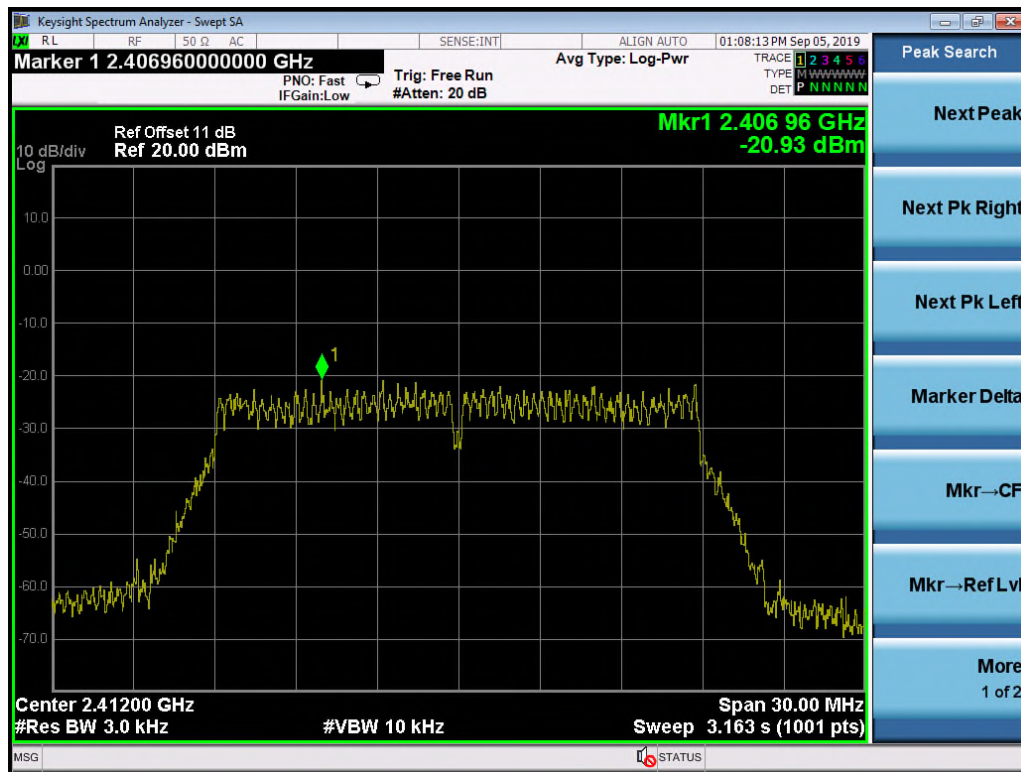
Low Channel



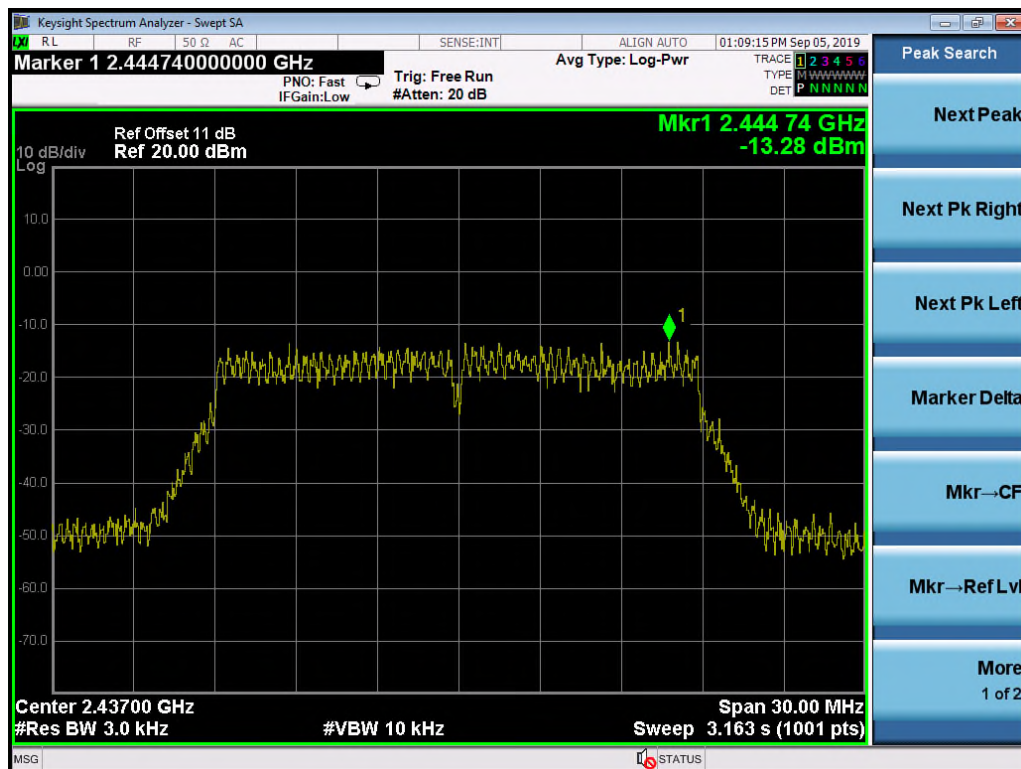
Middle Channel

High Channel


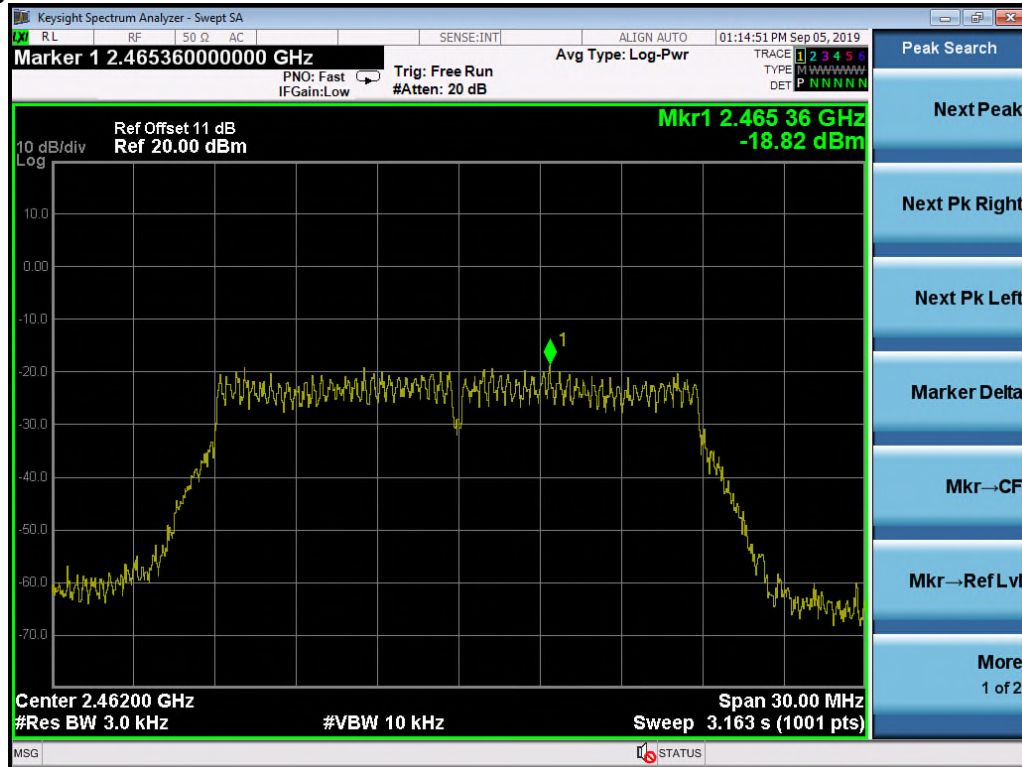
Test Plot of Power Density 802.11n 20

Low Channel



Middle Channel



High Channel


5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

RESULT:**Passed**

Test standard	:	FCC part 15.247(d)
Basic standard	:	C63.10:2013,KDB 558074
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
Kind of test site	:	Shielded room

Test setup

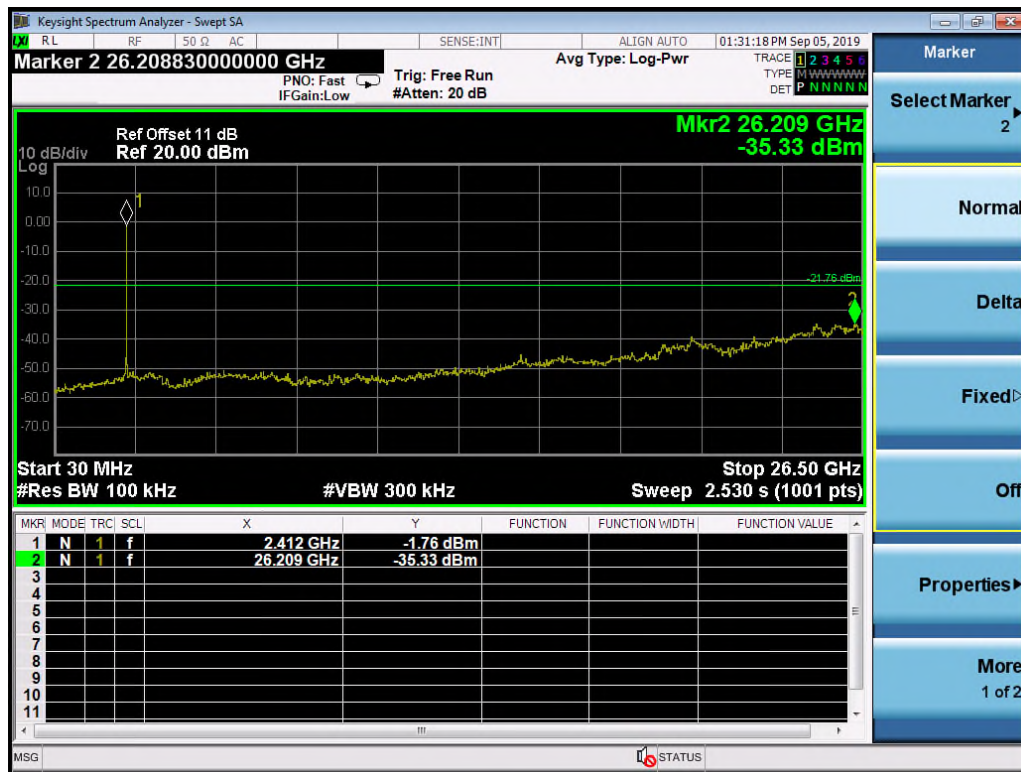
Test Channel	:	Low/ Middle/ High for Conducted Spurious Emissions Low/ High for Frequency Band Edge
Operation Mode	:	A
Ambient temperature	:	20-24°C
Relative humidity	:	50-65%
Atmospheric pressure	:	100-103 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

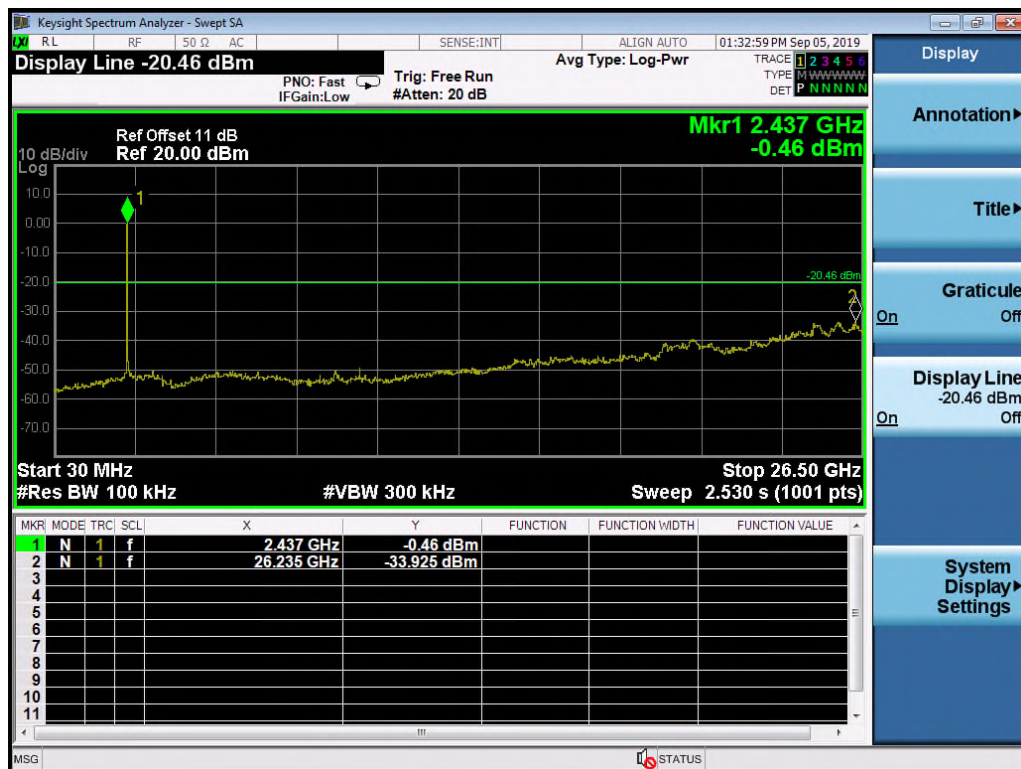
Due to the small size of the RF circuit and that there are no inductive components of significant size connected to the antenna port, 9kHz to 30MHz frequency range is not tested based on technical judgment.

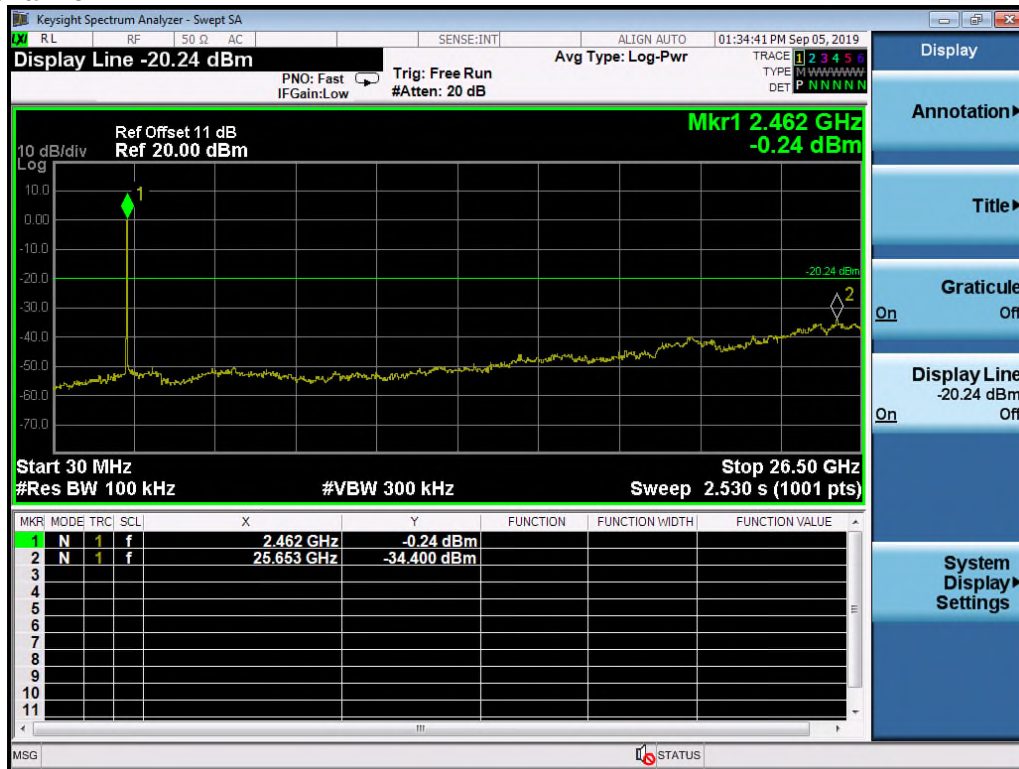
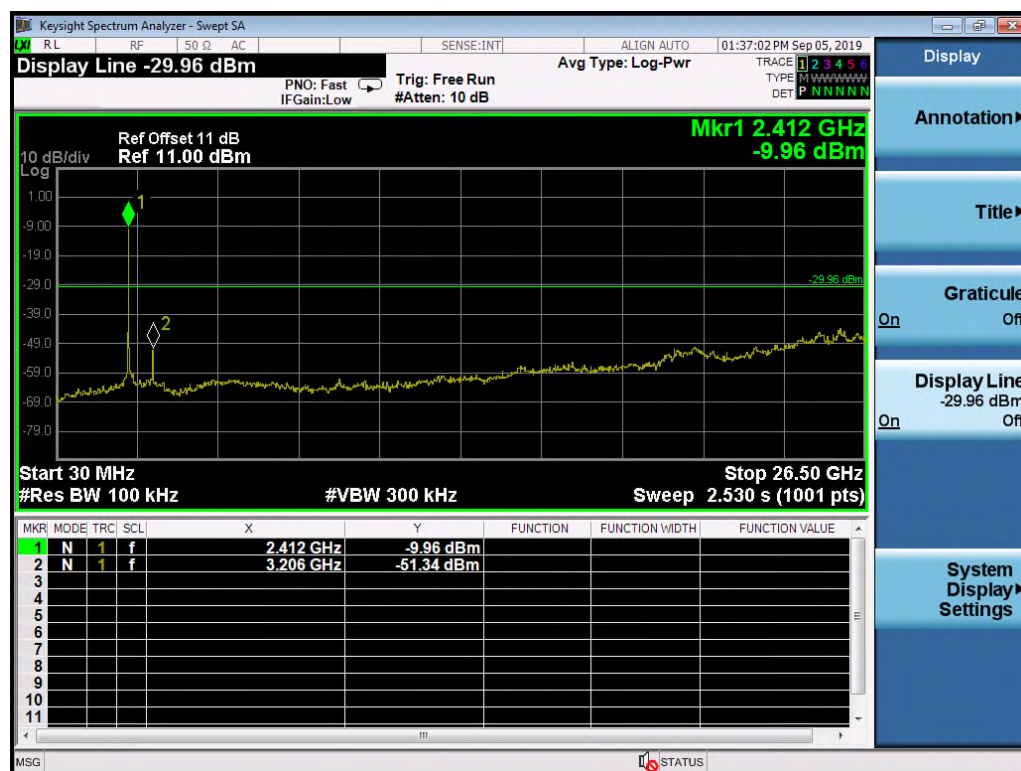
Test Plot 100kHz Conducted Emissions 802.11b

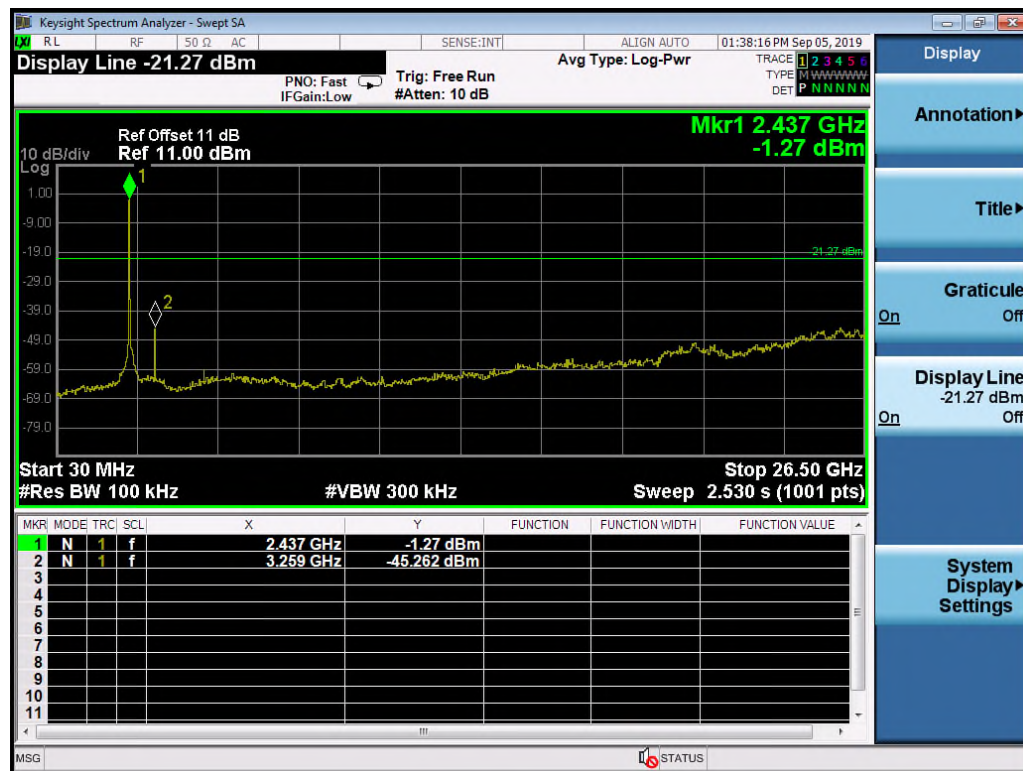
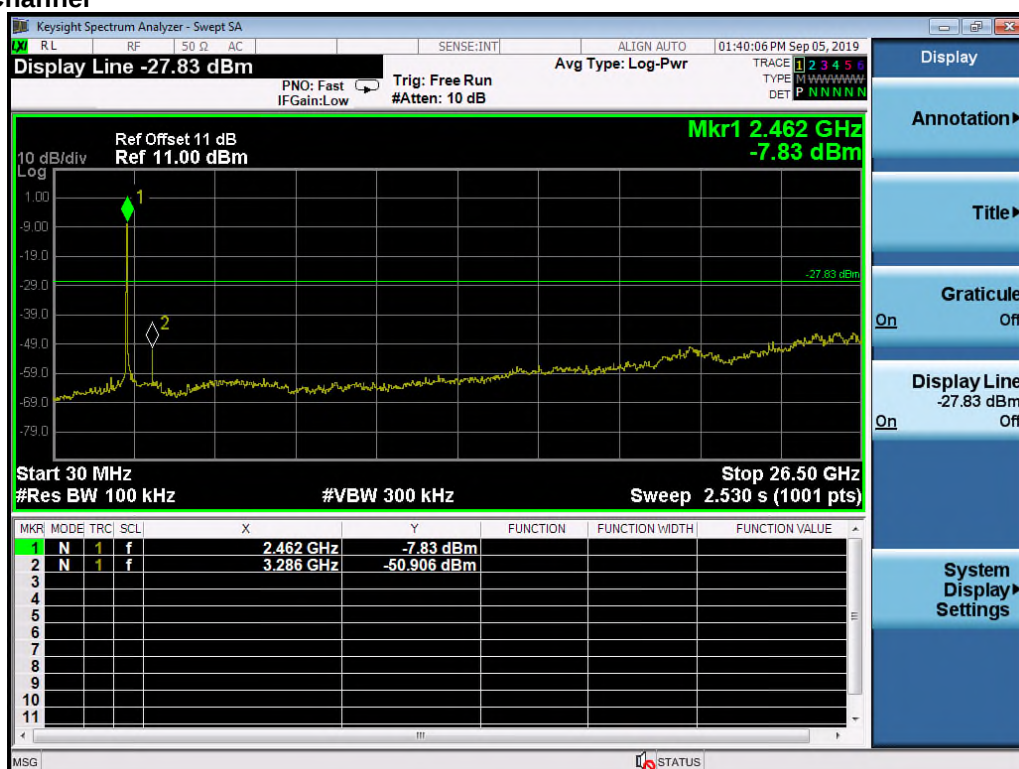
Low Channel



Middle Channel

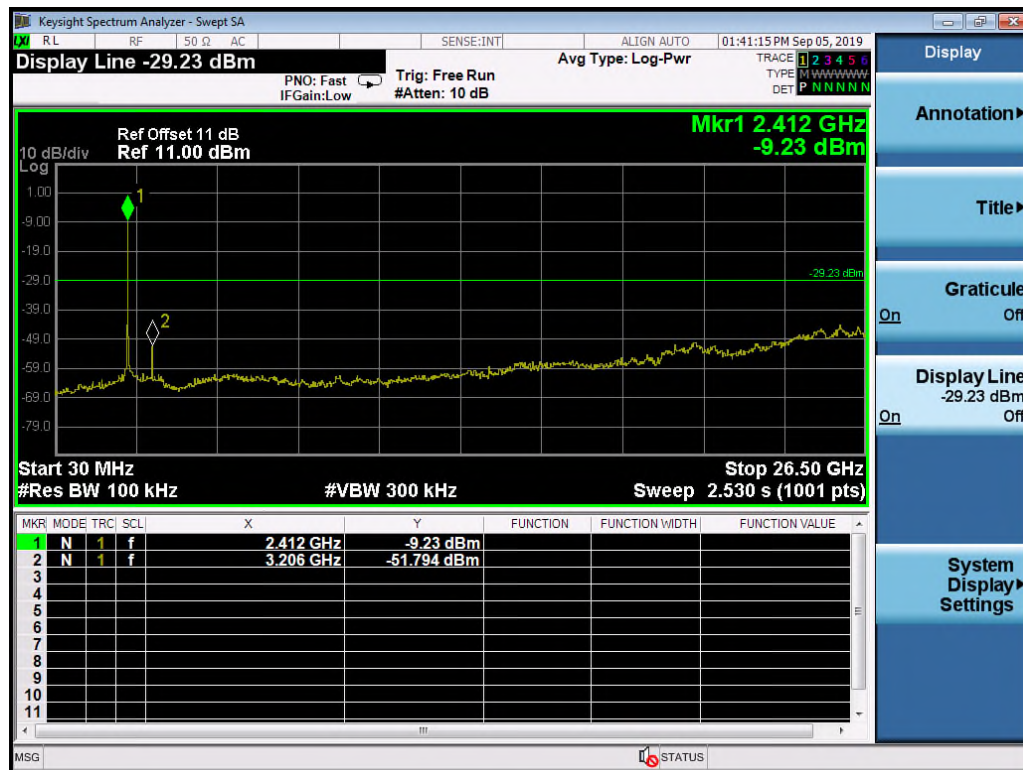


High Channel

Test Plot 100kHz Conducted Emissions 802.11g
Low Channel


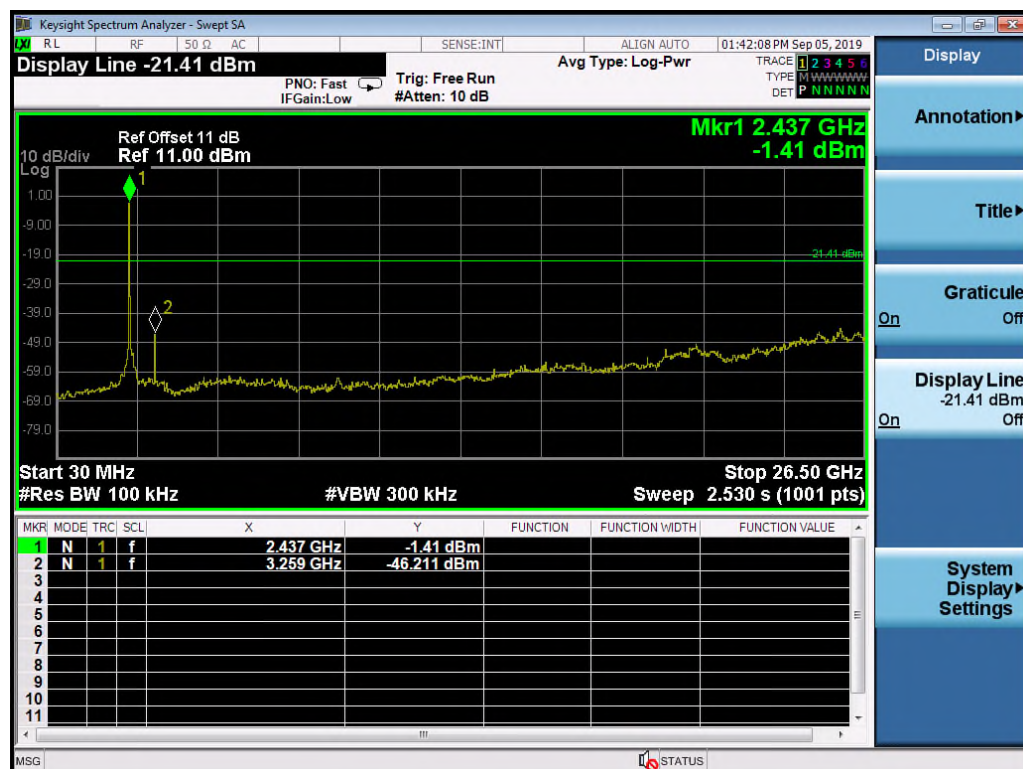
Middle Channel

High Channel


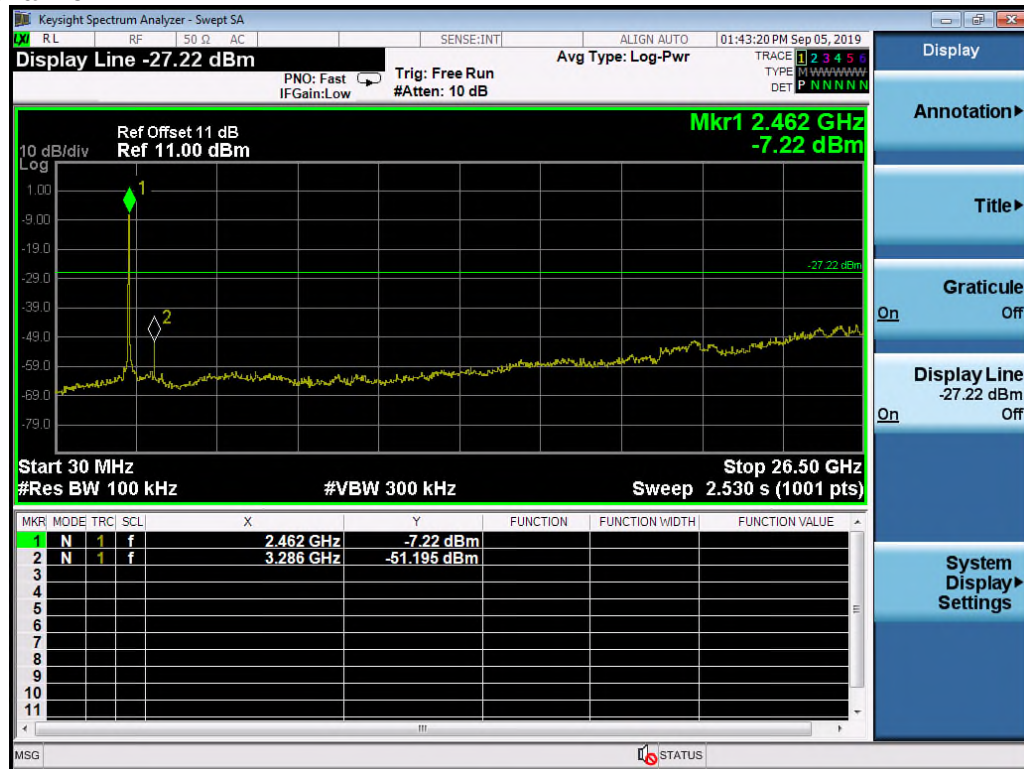
Test Plot 100kHz Conducted Emissions 802.11n 20

Low Channel



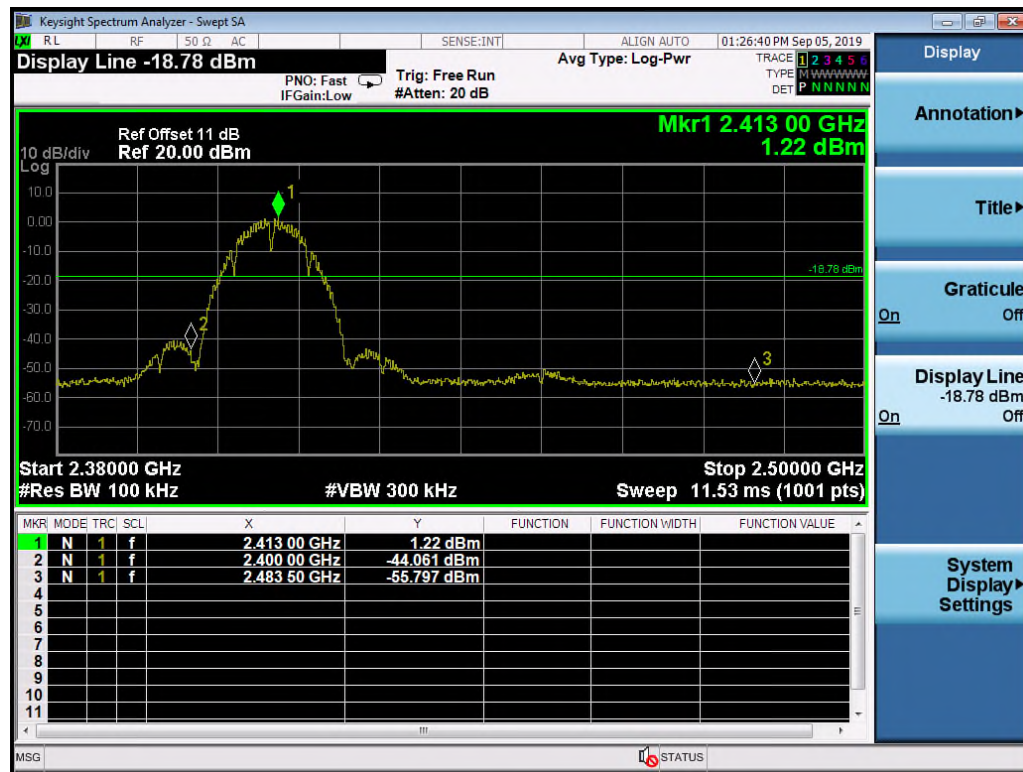
Middle Channel



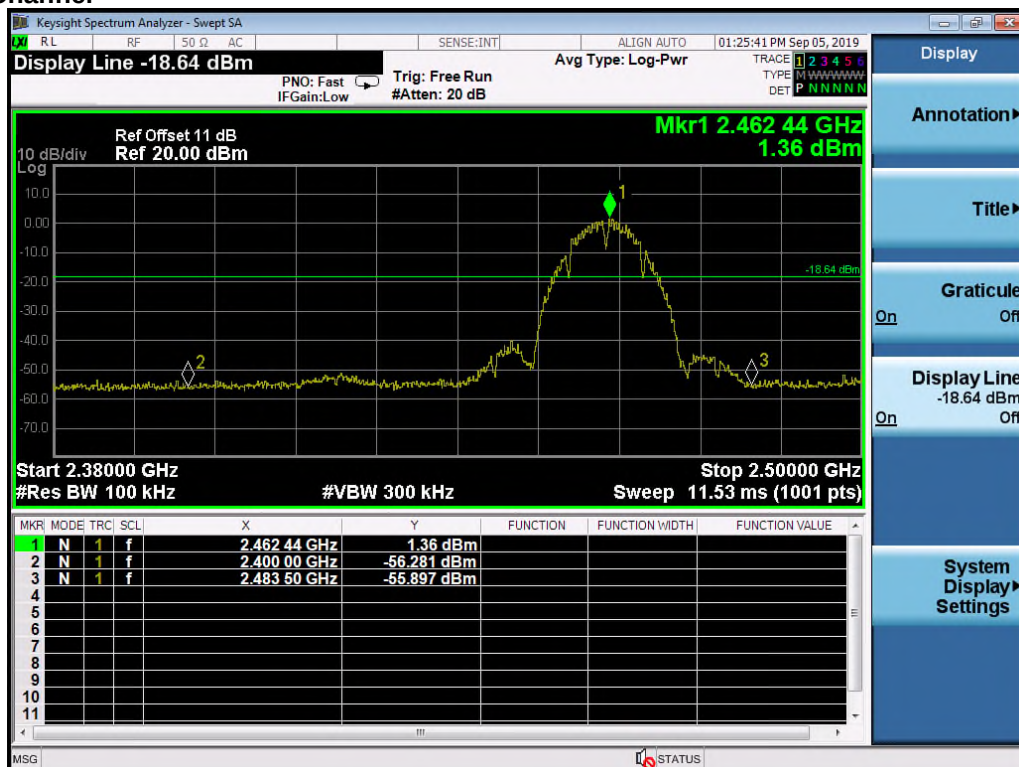


Test Plot 100kHz RBW of Band Edge 802.11b

Low Channel

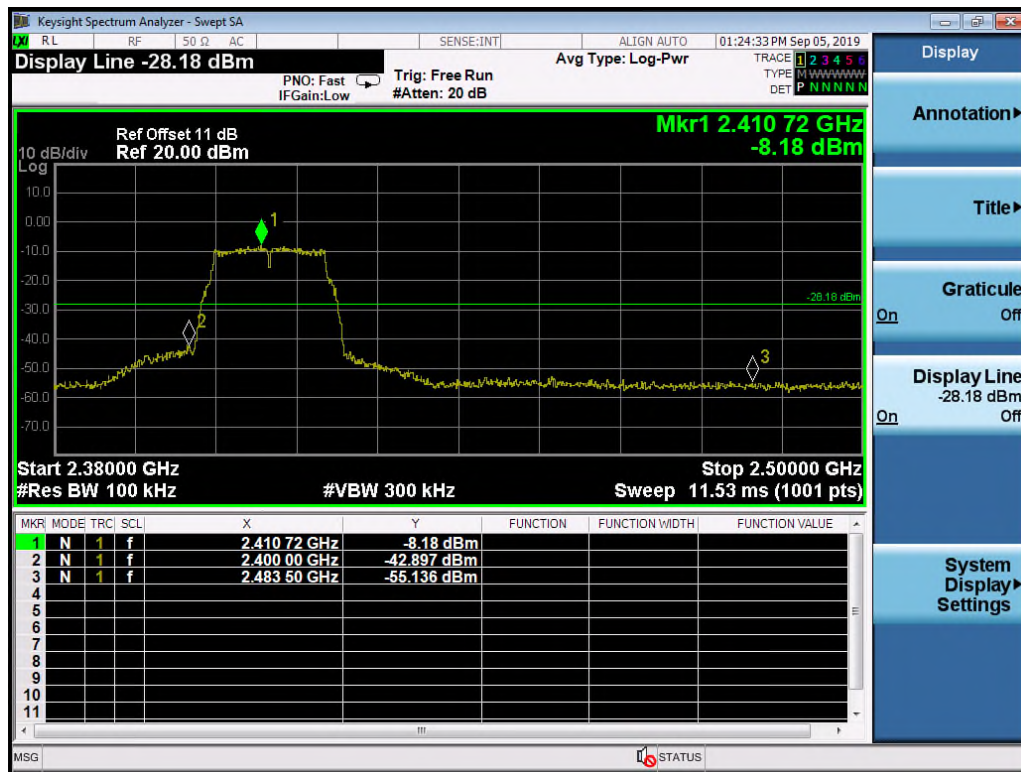


High Channel

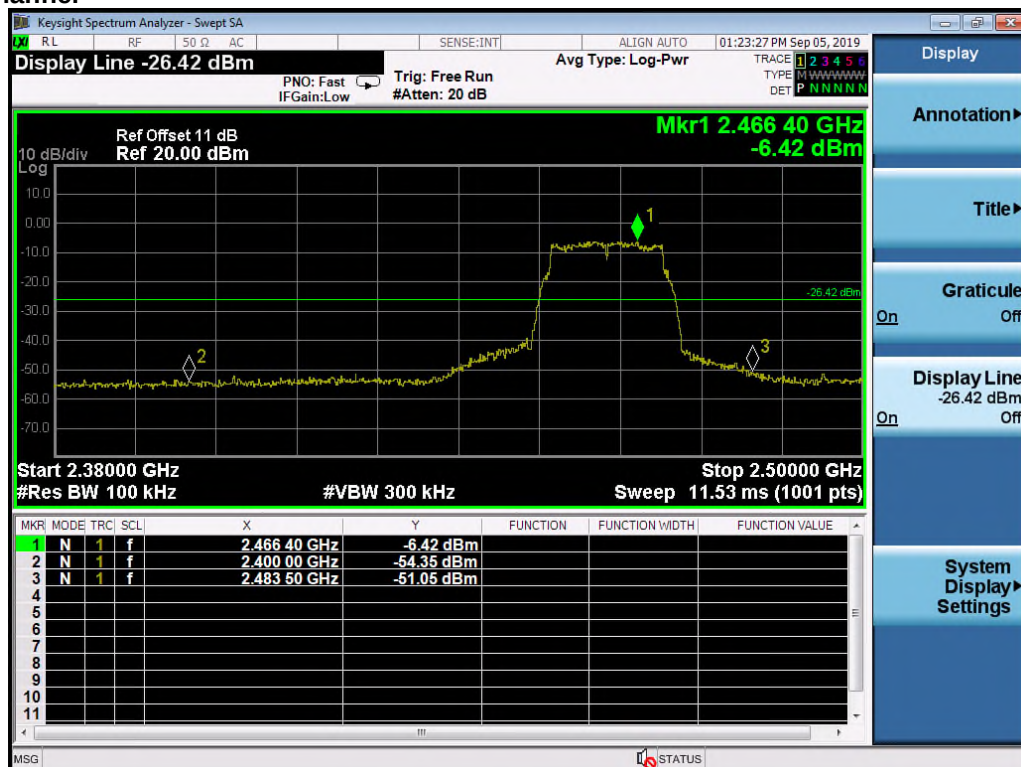


Test Plot 100kHz RBW of Band Edge 802.11g

Low Channel

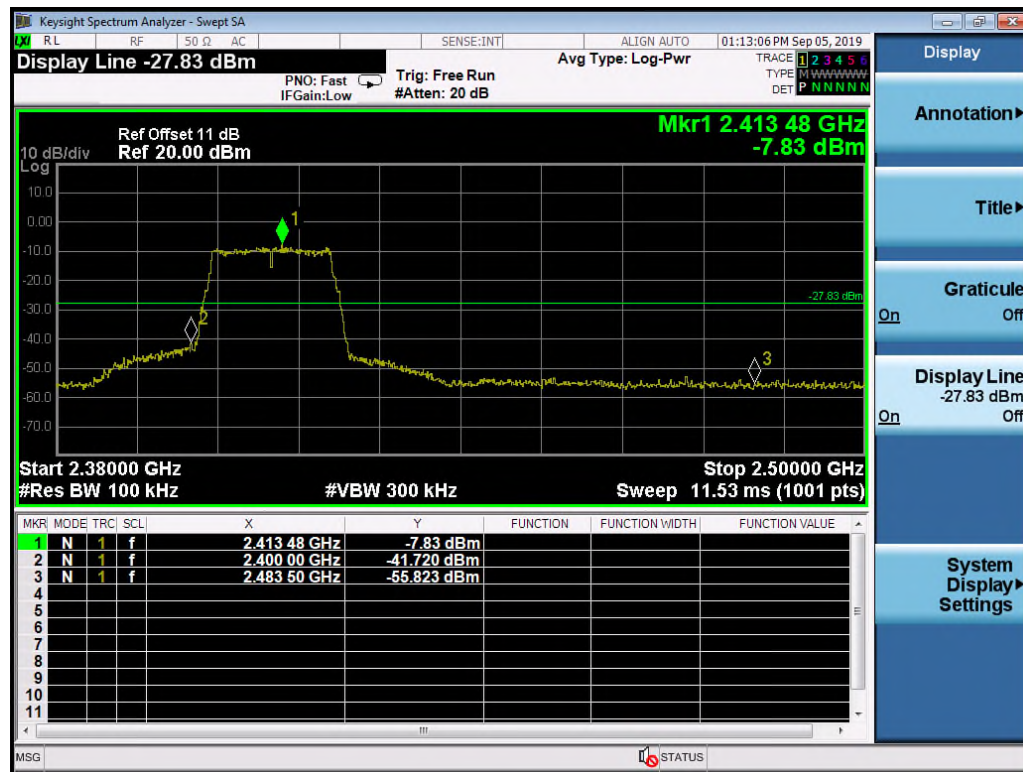


High Channel

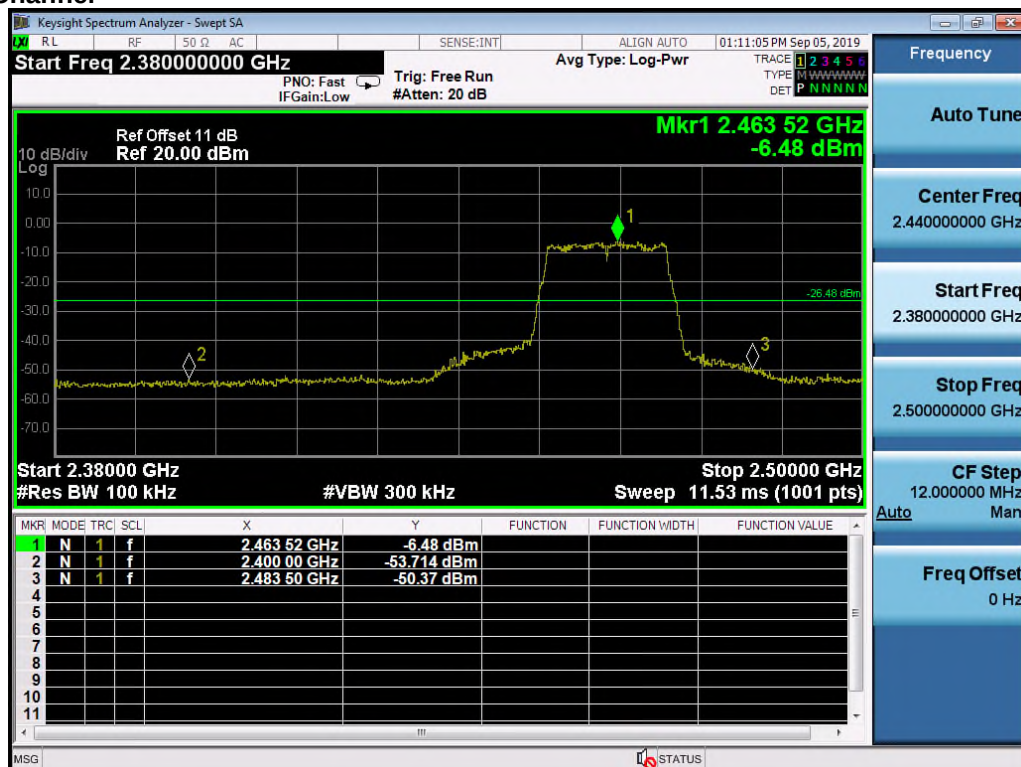


Test Plot 100kHz RBW of Band Edge 802.11n 20

Low Channel



High Channel



5.1.6 Spurious Emission

RESULT:**Passed**

Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.10:2013,KDB 558074
Limits : Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and, must comply with the radiated emission limits specified in FCC 15.209(a) .

Emission radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in FCC15.247(d)

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A

Ambient temperature : 20-24 °C
Relative humidity : 50-65 %
Atmospheric pressure : 100-103 kPa

Factor (dB/m)=Antenna Factor(dB/m)+Cable loss (dB)

Level(dBuV/m)=Reading(dBuV)+ Factor(dB/m)

For details refer to Appendix D.

Testing was carried out within frequency range 9kHz to the tenth harmonic. For details refer to Appendix D. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

5.2 Mains Emissions

5.2.1 Mains Conducted Emissions

RESULT:**Passed**

Test standard	:	FCC Part 15.207 FCC Part 15.107
Limits	:	Mains Conducted emissions as defined in above test standards must comply with the mains conducted emission limits specified
Kind of test site	:	Shielded Room

Test setup

Test Channel	:	Normal link
Operation mode	:	Normal link
Ambient temperature	:	20-24 °C
Relative humidity	:	50-65 %
Atmospheric pressure	:	100-103 kPa

Remark: For details refer to Appendix D.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**Test standard : 47CFR1.1310
47CFR 2.1091

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied

Maximum Exposure:

Power to Antenna (mW)	74.47 mW
Power to Antenna (dBm)	18.7 dBm
Antenna Gain	1.16 dBi
Power+Ant Gain	97.3 mW
Distance	20 cm
S=	0.019 mW/cm ²

Limit FCC: 1 mW/cm²FCC/NCC:

0.3-1.34 MHz	(100) mW/cm ²
1.34-30 MHz	(180/f ²) mW/cm ²
30-300 MHz	0.2 mW/cm ²
300-1500 MHz	f/1500 mW/cm ²
1500-100,000 MHz	1.0 mW/cm ²

---End---

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (Front 1)



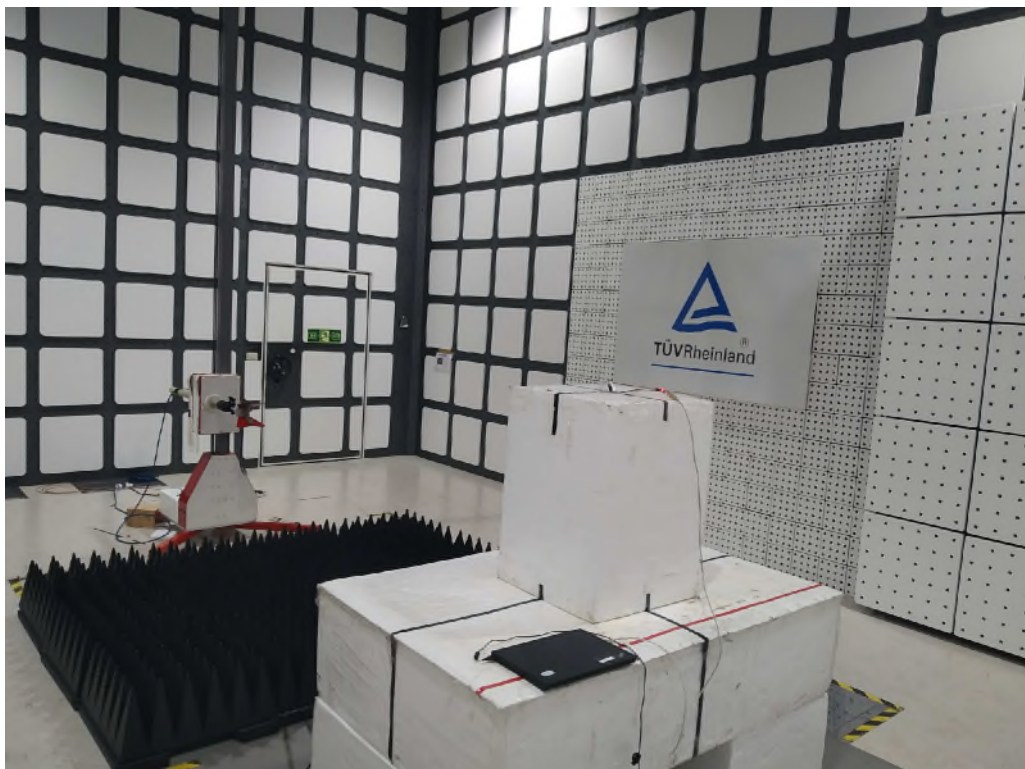
Photograph 2: Set-up for Spurious Emissions (Front 2)



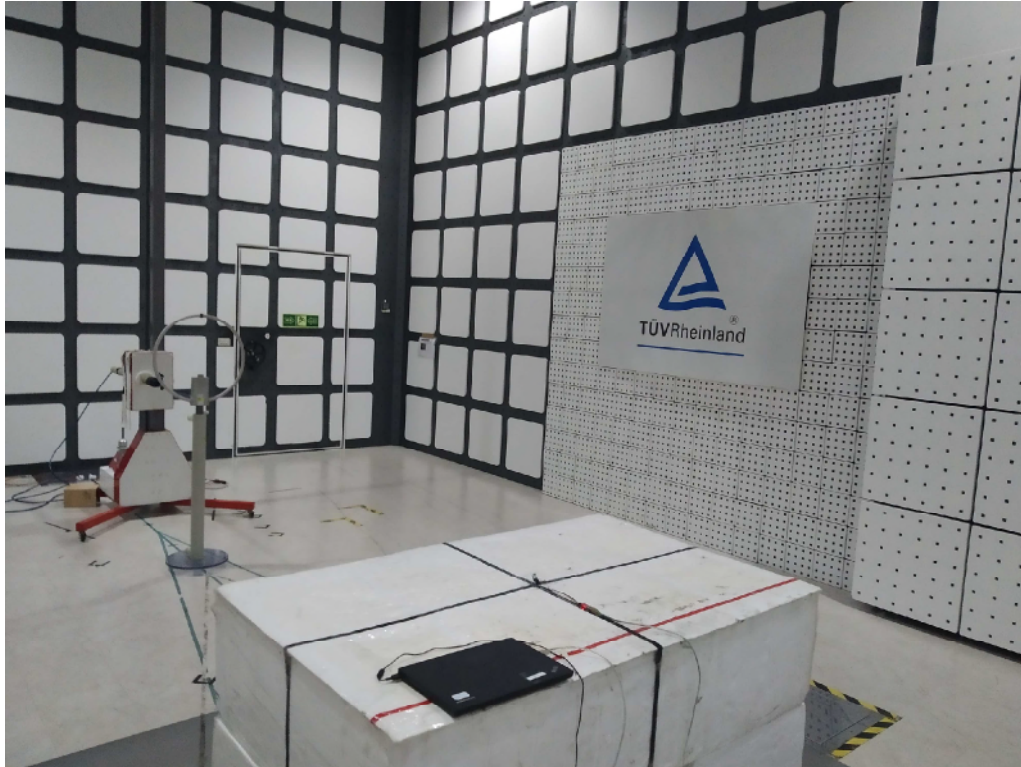
Photograph 3: Set-up for Spurious Emissions (Back View 1)



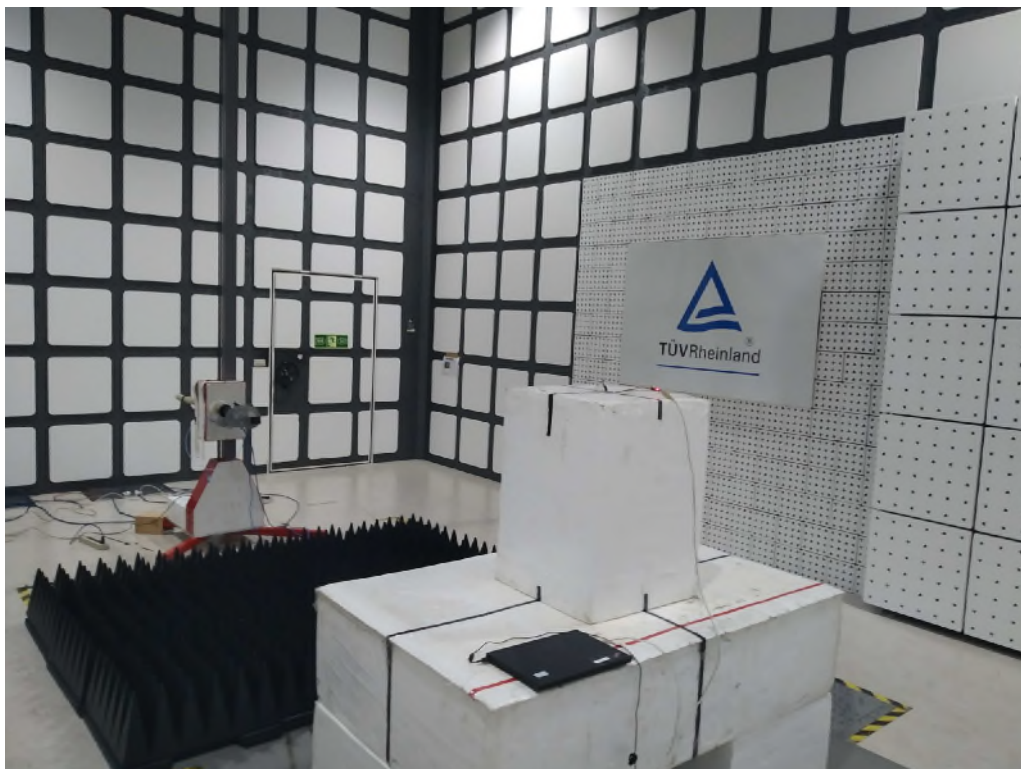
Photograph 4: Set-up for Spurious Emissions (Back View 2)



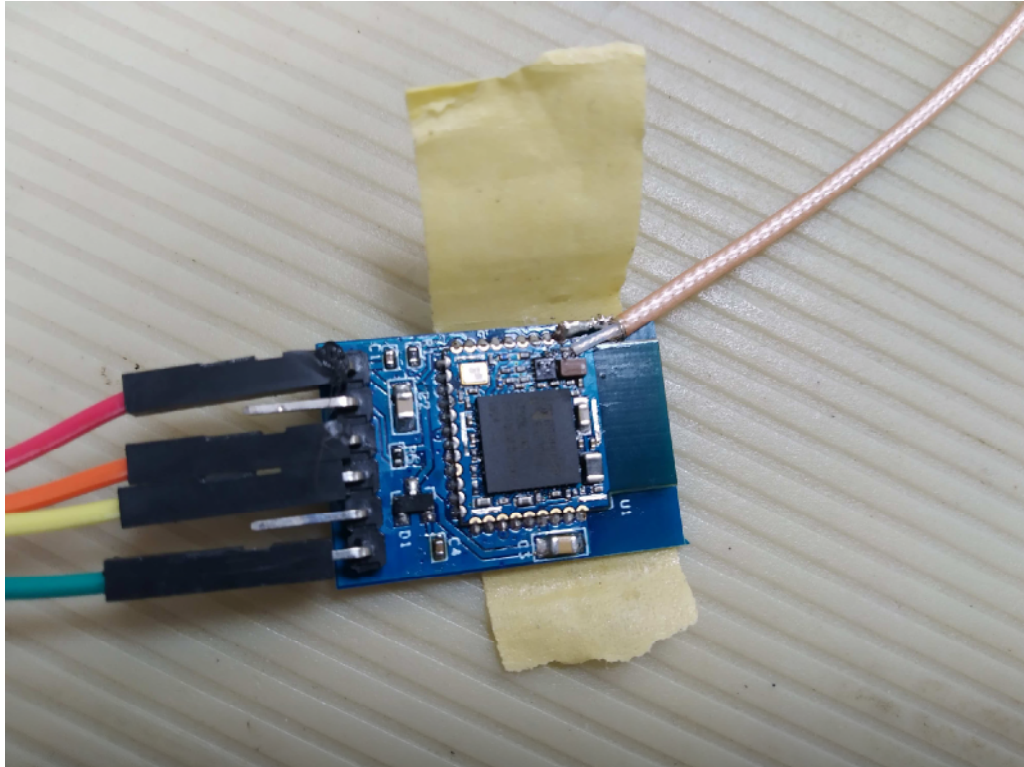
Photograph 5: Set-up for Spurious Emissions (Back View 3)



Photograph 6: Set-up for Spurious Emissions (Back View 4)



Photograph 7: Set-up for Conducted testing



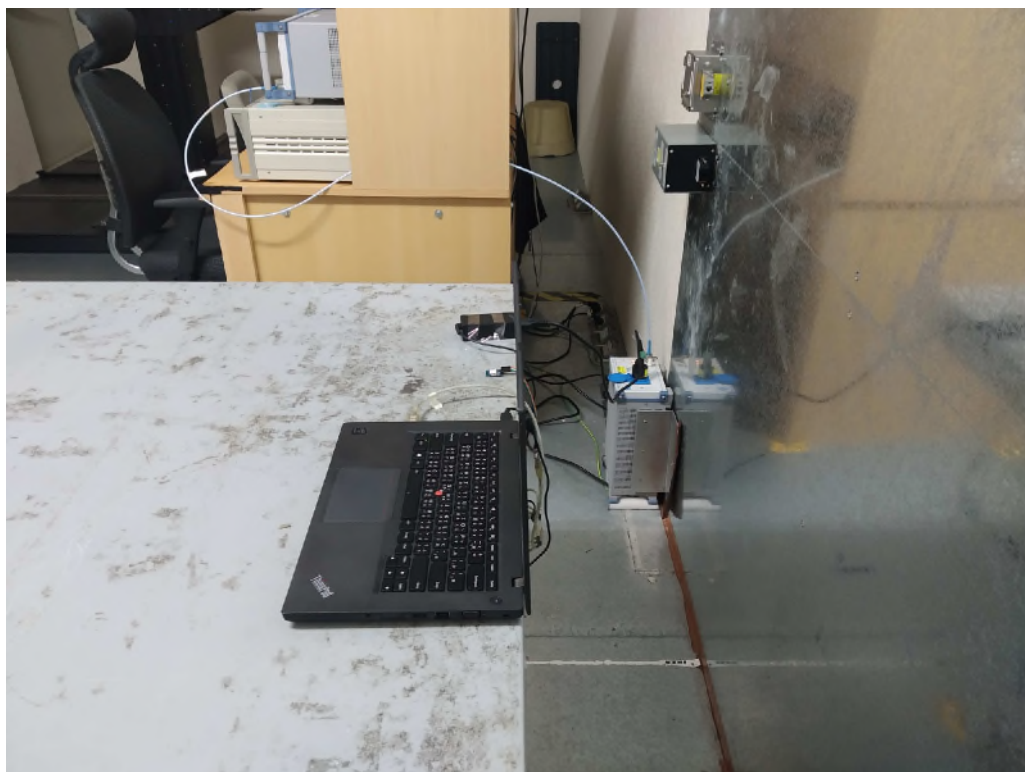
Photograph 8: Set-up for Conducted testing



Photograph 9: Set-up for for Mains Conducted testing Front



Photograph 10: Set-up for for Mains Conducted testing Back



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