

Prüfbericht-Nr.: Test Report No.:	50317241 001	Auftrags-Nr.: Order No.:	238109461	Seite 1 von 41 Page 1 of 41
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	26-Jun-2019	
Auftraggeber: Client:	TOSHIBA TEC Singapore Pte. Ltd 2 Ang Mo Kio Street 62, 569138, Singapore			
Prüfgegenstand: Test item:	PORTABLE PRINTER			
Bezeichnung / Typ-Nr.: Identification / Type No.:	B-FP2D-GH50-QM-S			
Auftrags-Inhalt: Order content:	NCC Test Report (WiFi 5GHz)			
Prüfgrundlage: Test specification:	NCC Low-power Radio-frequency Devices Technical Regulations LP0002 (2018) Section 4.7			
Wareneingangsdatum: Date of receipt:	04-Nov-2019			
Prüfmuster-Nr.: Test sample No.:	A001011487-017 A001011487-018			
Prüfzeitraum: Testing period:	11-Nov-2019 - 20-Nov-2019			
Ort der Prüfung: Place of testing:	EMC/RF Laboratory Taipei			
Prüflaboratorium: Testing laboratory:	TUV Rheinland Taiwan Ltd.			
Prüfergebnis*: Test result*:	Pass			
Report date / tested by:		kontrolliert von / reviewed by:		
				
22-Nov-2019 Mars Y.J. Lin/ Project Engineer		25-Nov-2019 Rene Charton/Expert, Electrical		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
<p>* 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</p> <p>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</p>				
<p>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></p>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 DUTY CYCLE

RESULT: Passed

5.1.3 MAXIMUM CONDUCTED AVERAGE OUTPUT POWER

RESULT: Passed

5.1.4 26dB BANDWIDTH

RESULT: Passed

5.1.5 6dB BANDWIDTH

RESULT: Passed

5.1.6 POWER DENSITY

RESULT: Passed

5.1.7 SPURIOUS EMISSION

RESULT: Passed

5.1.8 MAINS CONDUCTED EMISSIONS

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

(File Name: 50317241 001 APPENDIX P)

Appendix D: Test Result of Radiated Emissions

(File Name: 50317241 001 APPENDIX D)

Test Specifications

Table 1: Applied Standard and Test Levels

Radio
NCC Low-power Radio-frequency Devices Technical Regulations LP0002(2018)(107 年 1 月 10 日)

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.)

2.1 Test Facility

TUV Rheinland Taiwan Ltd.

AC Mains Conduction:
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

Radiated Test/Conducted Test:
No. 458-18, Sec 2, Fenliao., Linkou Dist.
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 226631
IC Canada Registration No.: 25563

TAF Accredited NCC Test Lab. No.:3567
TAF ISO17025 Certification effective period: 6th-May-2019 to 05th-May-2022



Testing Laboratory
3567

2.2 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	R&S	ESR7	102108	2019/2/06	2020/2/05
Spectrum Analyzer	R&S	FSV40	101508	2019/2/05	2020/2/04
Pre-Amplifier	Agilent	8447D	2944A10772	2019/2/22	2020/2/21
Pre-Amplifier	EMCI	EMC051845SE	980633	2019/2/25	2020/2/24
Pre-Amplifier	EMCI	EMC184045SE	980657	2019/2/23	2020/2/22
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2019/1/14	2020/1/13
Horn Antenna	ETS-Lindgren	3117	00218930	2018/12/27	2019/12/26
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2019/4/12	2020/4/11
Loop Antenna	EMCI	LPA600	287	2018/12/20	2019/12/19
Test Software	Audix	e3	Ver. 9	N/A	N/A
Test Cable	HUBER+SUHNER	SUCOFLEX 104EA 9k~18G	800056/4EA	2019/4/18	2020/4/17
Test Cable	HUBER+SUHNER	SUCOFLEX 104 9k~18G	804680/4	2019/4/18	2020/4/17
Test Cable	HUBER+SUHNER	SUCOFLEX 104 9k~18G	MY37202/4	2019/4/18	2020/4/17
Test Cable	HUBER+SUHNER	SUCOFLEX 102EA 1G~40G	800898/2EA	2019/4/18	2020/4/17
Test Cable	HUBER+SUHNER	SUCOFLEX 102EA 1G~40G	800901/2EA	2019/4/18	2020/4/17
Test Cable	HUBER+SUHNER	SUCOFLEX 102EA 1G~40G	801027/2EA	2019/4/18	2020/4/17
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100797	2019/1/16	2020/1/15
Two-Line V-Network (for EUT)	Rohde & Schwarz	ENV216	101243	2019/6/23	2020/06/22
Two-Line V-Network	Rohde & Schwarz	ENV216	101262	2019/7/16	2020/7/15
Telecom ISN 4 Line	Fischer Custom Communications	FFCC-TLISN- T4-02-09	101168	2019/1/02	2020/1/01
Impedance Stabilization Network	TESEQ	ISN T800	51949	2019/2/20	2020/2/19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54- 102102-HN	2019/7/25	2020/7/24
Spectrum Analyzer	R&S	FSV40	101513	2019/2/8	2020/2/7
Thermo Chamber	Giant Force	GHT-150-40-CP- SD	MAA1902-010	2019/2/1	2020/1/31
Signal Generator	R&S	SMB100A03	181335	2019/1/23	2020/1/22
Power Meter	Anritsu	ML2495A	1901008	2019/4/29	2020/4/28
Power Sensor	Anritsu	MA2411B	1725269	2019/4/29	2020/4/28

2.3 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.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
RF power, conducted	$\pm 1.5 \text{ dB}$
Adjacent channel power	$\pm 3 \text{ dB}$
Radiated emission of transmitter, valid up to 26 GHz	$\pm 6 \text{ dB}$
Radiated emission of receiver, valid up to 26 GHz	$\pm 6 \text{ dB}$
Temperature	$\pm 2 \text{ }^{\circ}\text{C}$
Humidity	$\pm 10 \text{ \%}$

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a PORTABLE PRINTER. It contains a WiFi 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	PORTABLE PRINTER
Type Designation	B-FP2D-GH50-QM-S
Brand Name	Falcon

Table 5: Technical Specification of EUT

Technical Specification	Value
Operating Frequencies	5180~5240MHz, 5725~5850MHz
Channel Spacing	10 MHz
Channel number	5180~5240MHz: 7 5725~5850MHz: 8
Operation Voltage	7.4Vdc
Modulation	802.11a/n:OFDM with BPSK, QPSK, QAM
Antenna gain	4.42 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

- | | |
|-------------------------|----------------------|
| - Block Diagram | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - 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_Band 1

Mode	Channel Frequency		
	5180 MHz	5200 MHz	5240 MHz
802.11a	18	18	18
802.11n20	18	18	18

Table 7: Table for Parameters of Test Software Setting_Band 4

Mode	Channel Frequency		
	5745 MHz	5785 MHz	5825 MHz
802.11a	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: A001011487-017

Radiation: A001011487-018

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

IEEE 802.11a mode for band 1:

Channel Low (5180MHz), Channel Mid (5200MHz) and Channel High (5240MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 mode for band 1:

Channel Low (5180MHz), Channel Mid (5200MHz) and Channel High (5240MHz) with MCS0 data rate were chosen for full testing.

IEEE 802.11a mode for band 4:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 mode for band 4:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with MCS0 data rate were chosen for full testing.

4.3 Special Accessories and Auxiliary Equipment

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

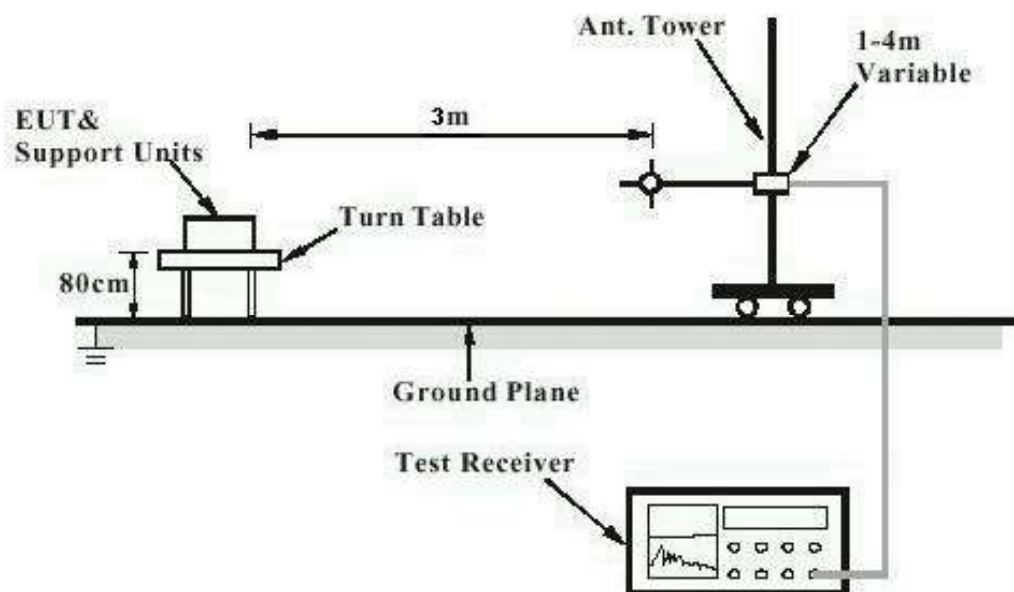
Description	Manufacturer	Model No.	Serial No.
Notebook(EMC-06)	Lenovo	TP00048A	PB-0F8B2

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)

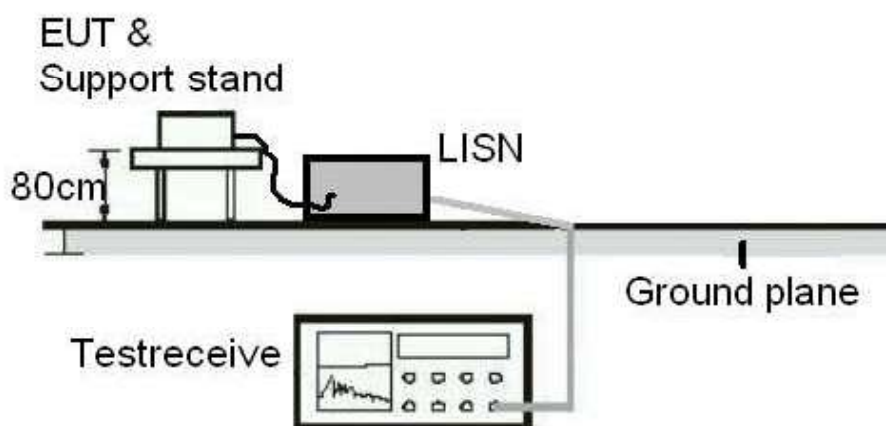
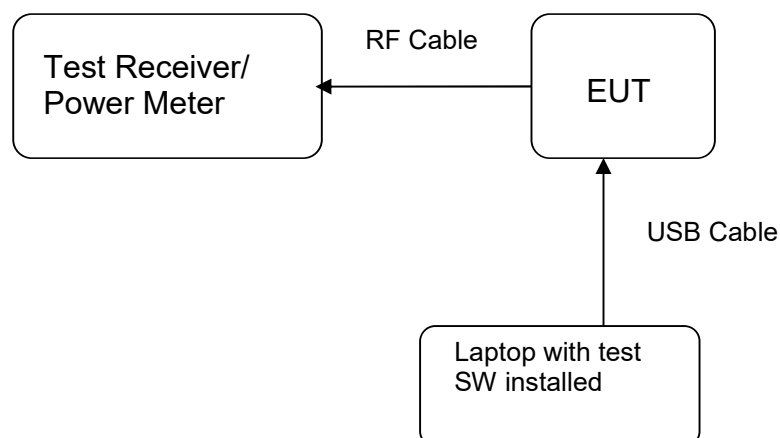


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test standard : LP0002(2018): 4.7.8, 4.7.3.1(4)(C), 4.7.3.2(3),
4.7.3.3(3)
Limit : the use of antennas with directional gains that do not
exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 4.42 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 Duty Cycle

RESULT:**Passed**

Test standard : LP0002(2018)
Limit : None; for reporting purposes only
Kind of test site : Shielded room / Conducted room

Test setup

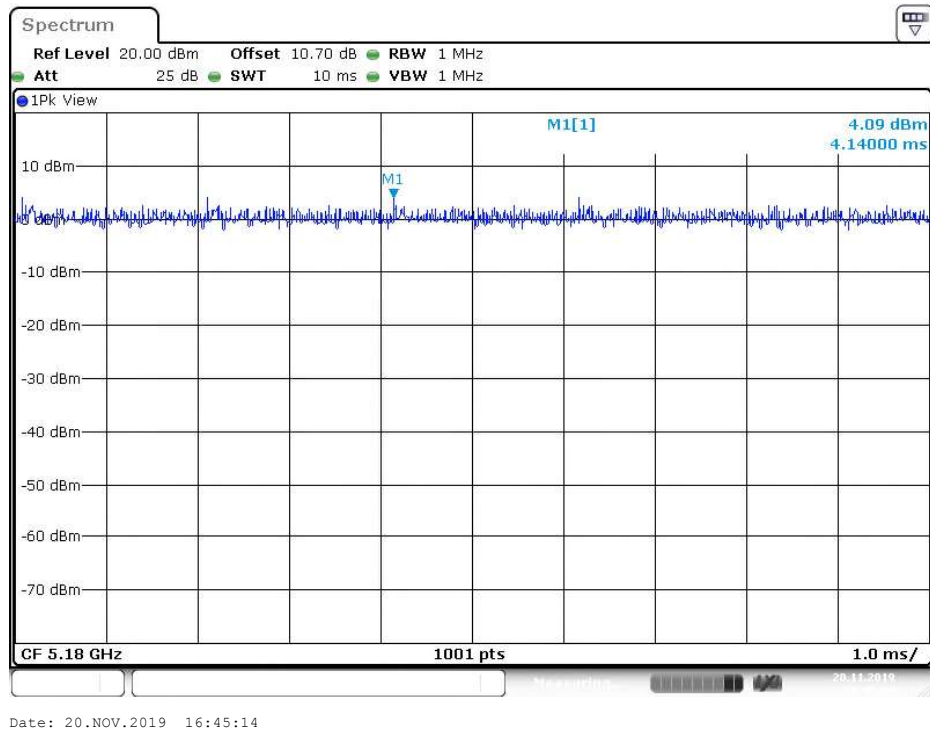
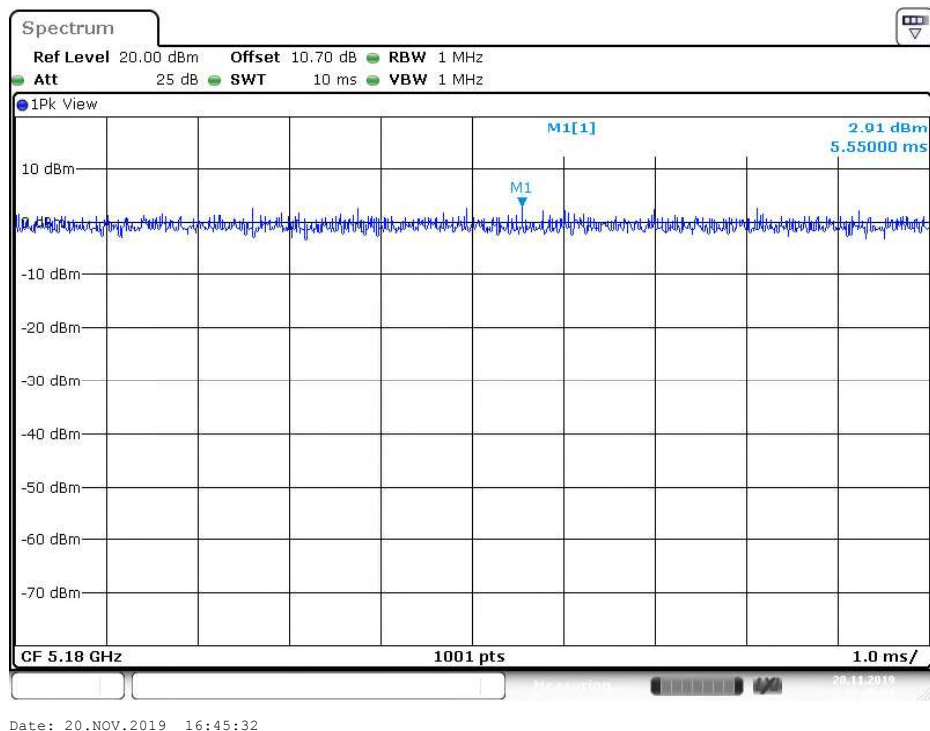
Operation Mode : A
Test Channel : Refer to the Table (Band 1 low channel)

Table 8: Test result of Duty Cycle

Mode	On Time(ms)	On+Off Time(ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1	1	100	0.00
802.11n HT20	1	1	100	0.00

The duty factor is $10\log (1/ (\text{Duty Cycle (\%)} / 100))$.

Test Plot of Duty Cycle

802.11a

802.11n HT20


5.1.3 Maximum Conducted Average Output Power

RESULT:**Passed**

Test standard	:	LP0002(2018): 4.7.3.1(4)(A), 4.7.3.2(1), 4.7.3.3(1)
Basic standard	:	ANSI C63.10:2013
Kind of test site	:	Shielded room

Test setup

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

Ambient temperature	:	22-26 °C
Relative humidity	:	50-65 %
Atmospheric pressure	:	100-103 kPa

NCC Limit

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Table 9: Test result of Average Output Power

Mode	Channel Frequency (MHz)	Average Output Power		Limit (dBm)
		(dBm)	Total (dBm)	
802.11a	5180	7.58	7.58	24.00
	5200	7.79	7.79	24.00
	5240	7.83	7.83	24.00
	5745	8.56	8.56	30.00
	5785	8.61	8.61	30.00
	5825	8.5	8.5	30.00
802.11n HT20	5180	6.75	6.75	24.00
	5200	6.71	6.71	24.00
	5240	6.87	6.87	24.00
	5745	6.17	6.17	30.00
	5785	6.55	6.55	30.00
	5825	6.74	6.74	30.00

5.1.4 26dB Bandwidth

RESULT:**Passed**

Test standard : LP0002(2018): 4.7.2.3
Basic standard : ANSI C63.10:2013
Kind of test site : Shielded room

Test setup

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

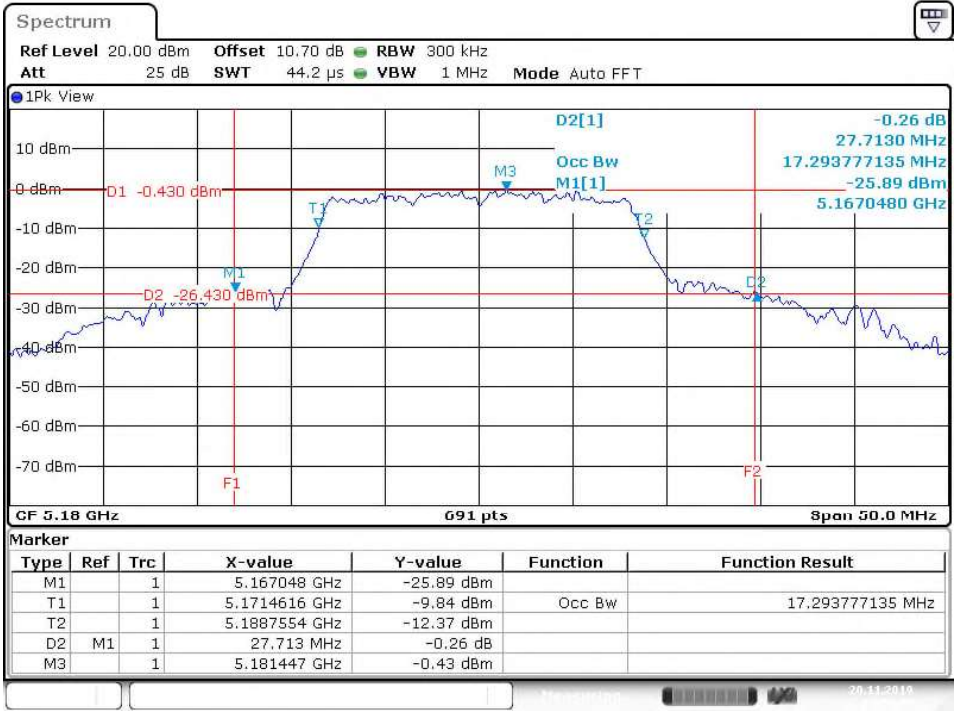
Ambient temperature : 22-26°C
Relative humidity : 50-65%
Atmospheric pressure : 100-103 kPa

Table 10: Test result of 26dB

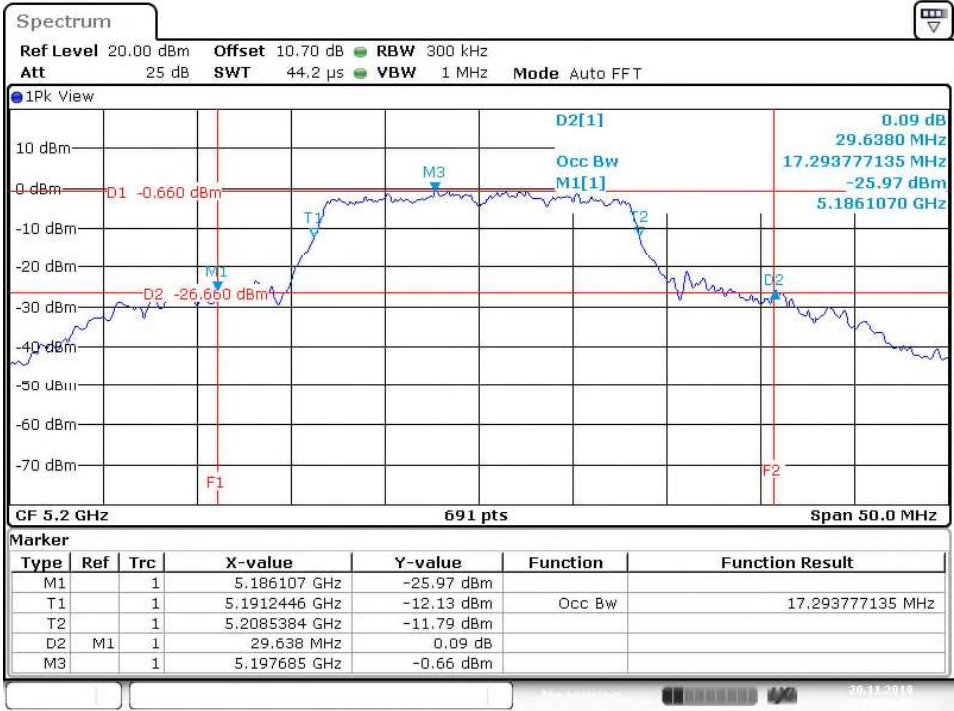
Mode	Channel Frequency (MHz)	26dB Bandwidth (MHz)
802.11a	5180	27.71
	5200	29.64
	5240	29.65
802.11n HT20	5180	31.45
	5200	29.02
	5240	30.74

Test Plot of 26dB Bandwidth
802.11a

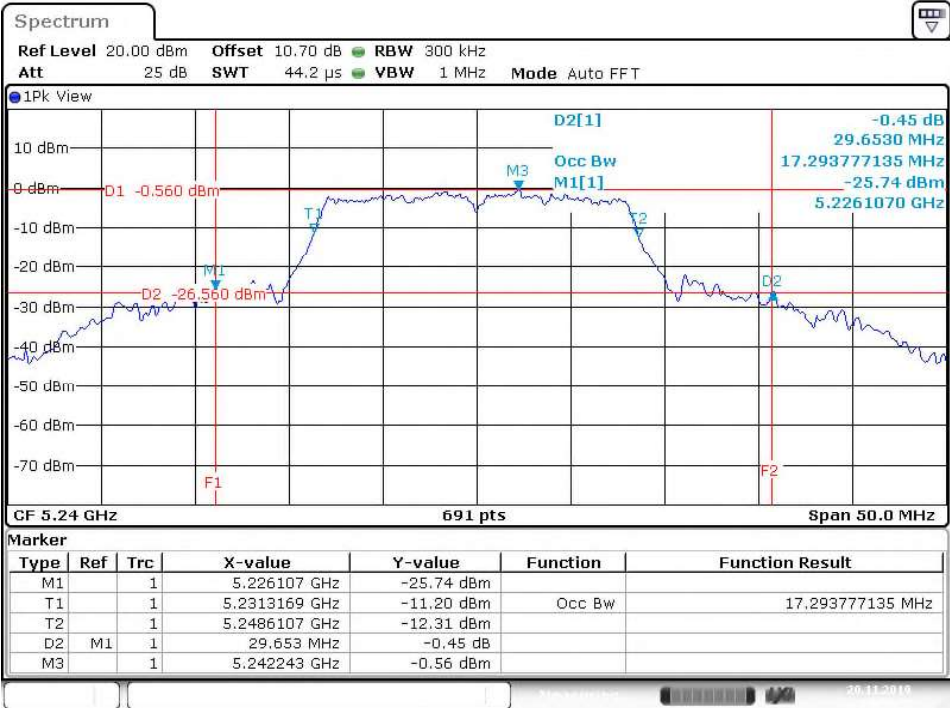
Low Channel



Middle Channel



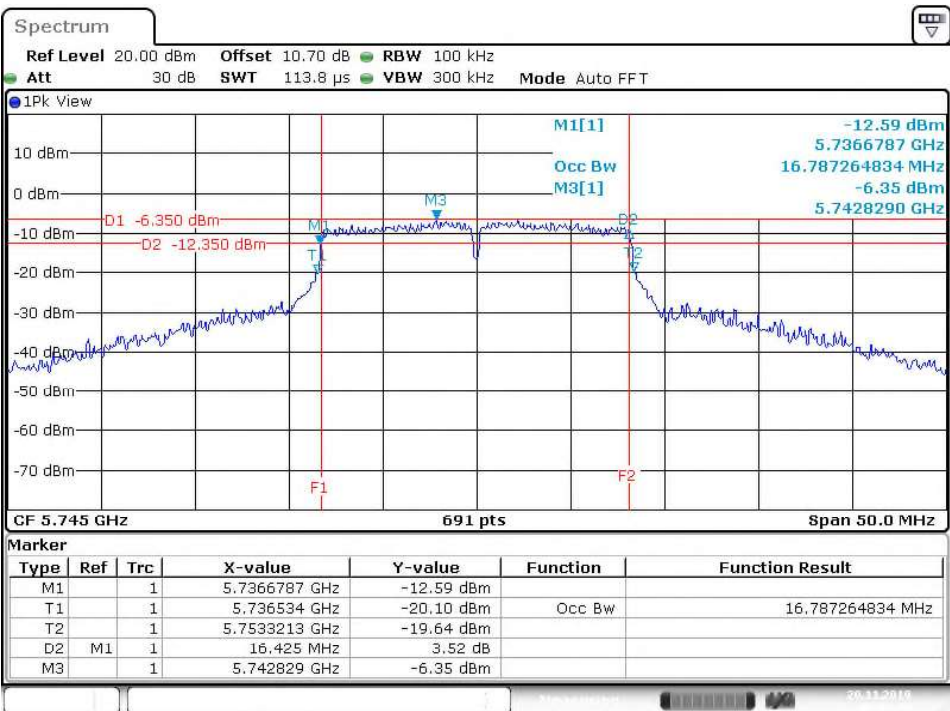
High Channel



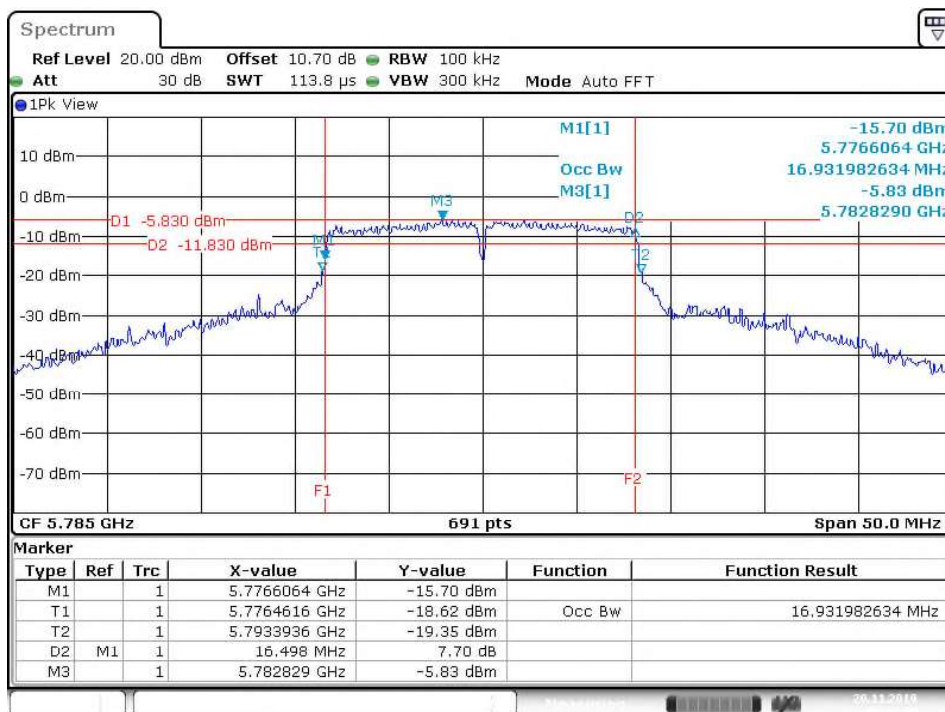
Date: 20.NOV.2019 14:58:27

802.11n HT20

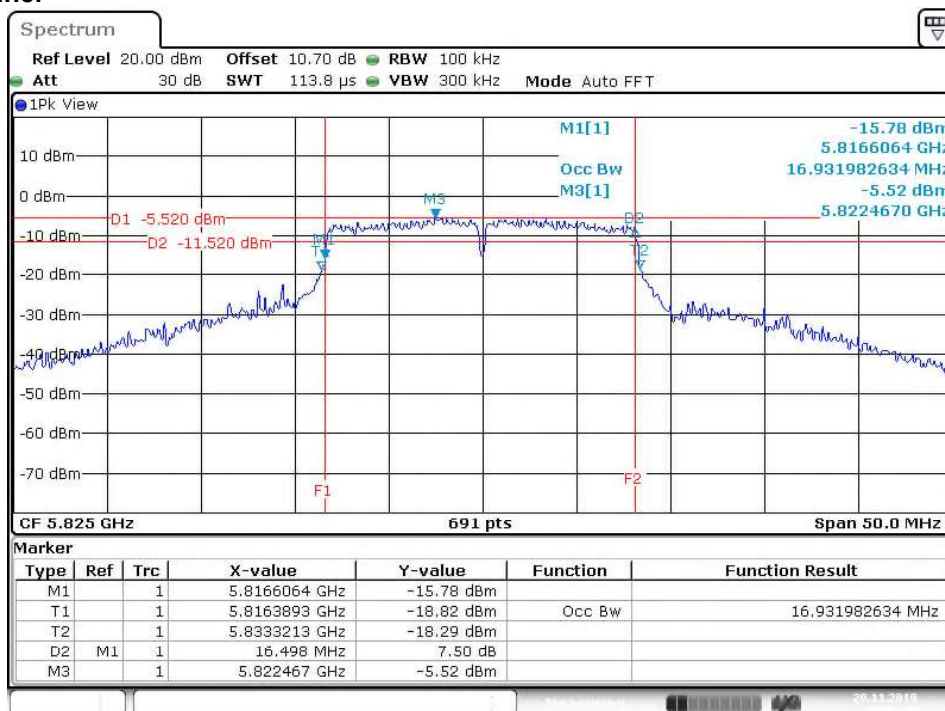
Low Channel



Date: 20.NOV.2019 15:13:49

Middle Channel


Date: 20.NOV.2019 15:12:50

High Channel


Date: 20.NOV.2019 15:11:27

5.1.5 6dB Bandwidth**RESULT:****Passed**

Test standard : LP0002(2018): 4.7.5
Basic standard : ANSI C63.10:2013
Kind of test site : Conducted room

Test setup

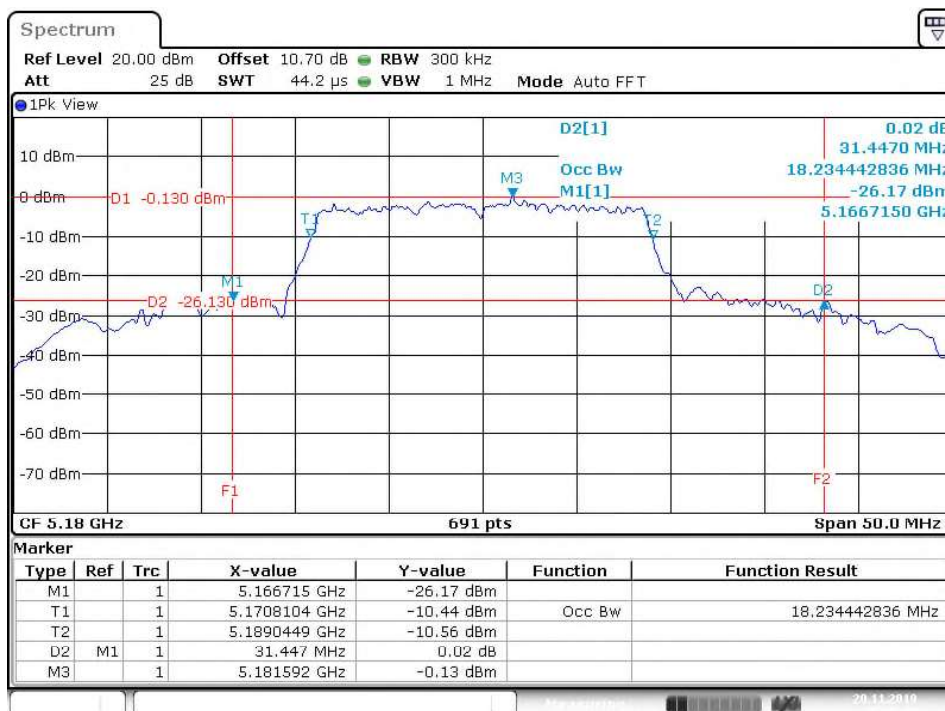
Test Channel : Refer to the Table 7
Operation Mode : A

Table 11: Test result of 6dB Bandwidth

Mode	Channel Frequency (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Limit (kHz)	Result
802.11a	5745	16.43	>500	Pass
	5785	16.50	>500	Pass
	5825	16.50	>500	Pass
802.11n HT20	5745	17.80	>500	Pass
	5785	17.80	>500	Pass
	5825	17.80	>500	Pass

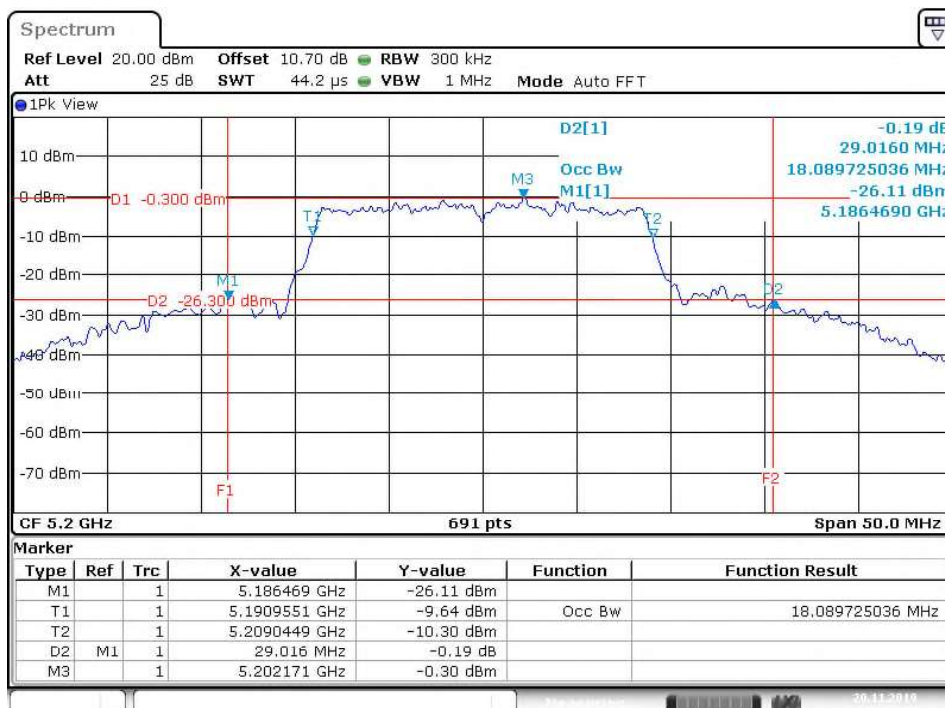
Test Plot of 6dB Bandwidth for 802.11a

Low Channel

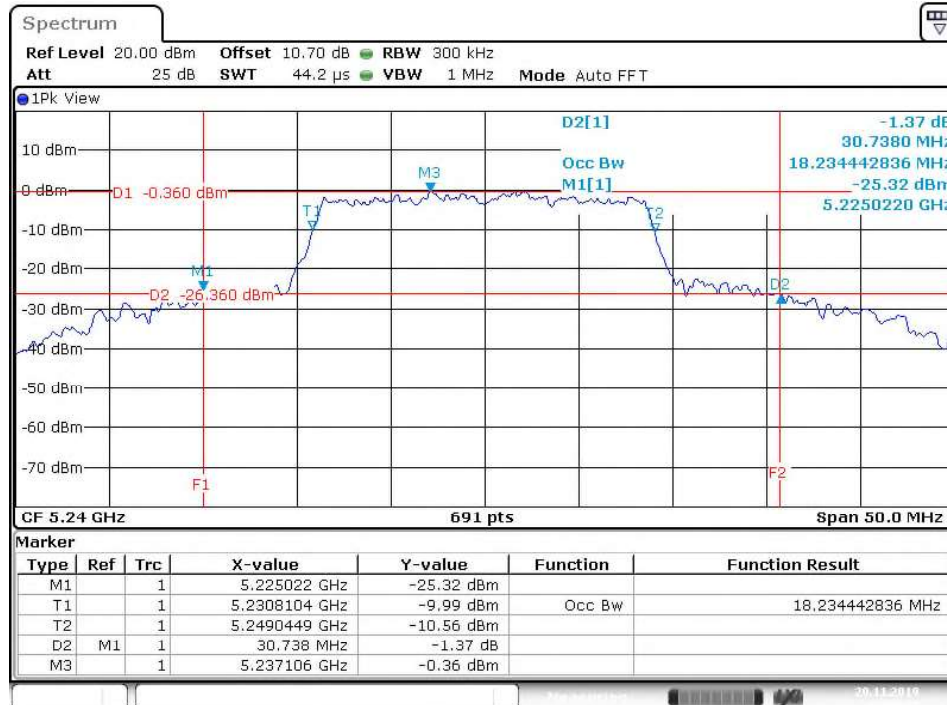


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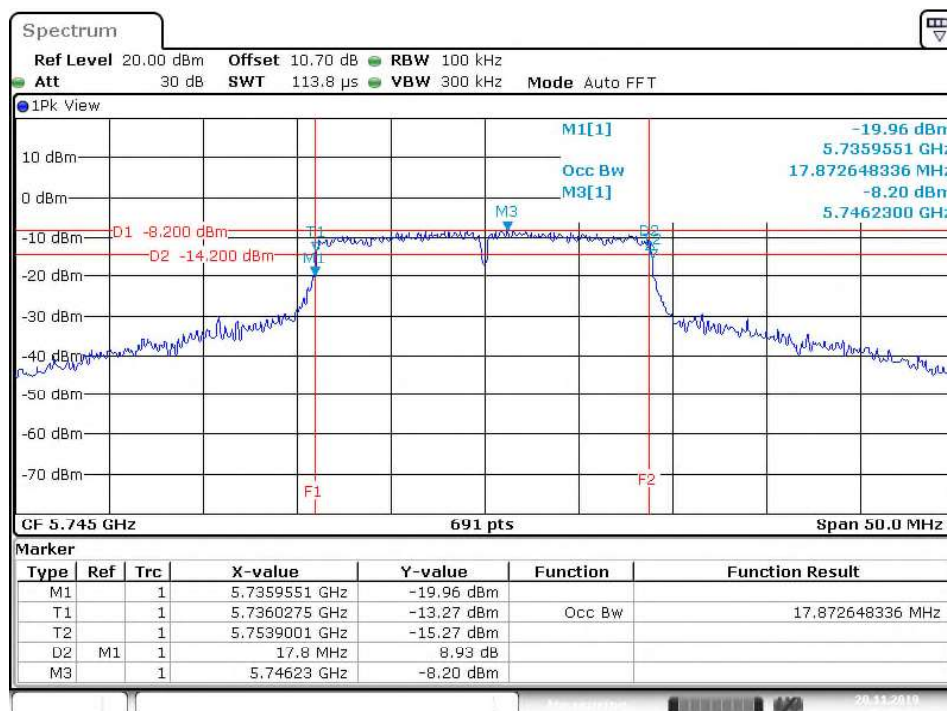
Middle Channel



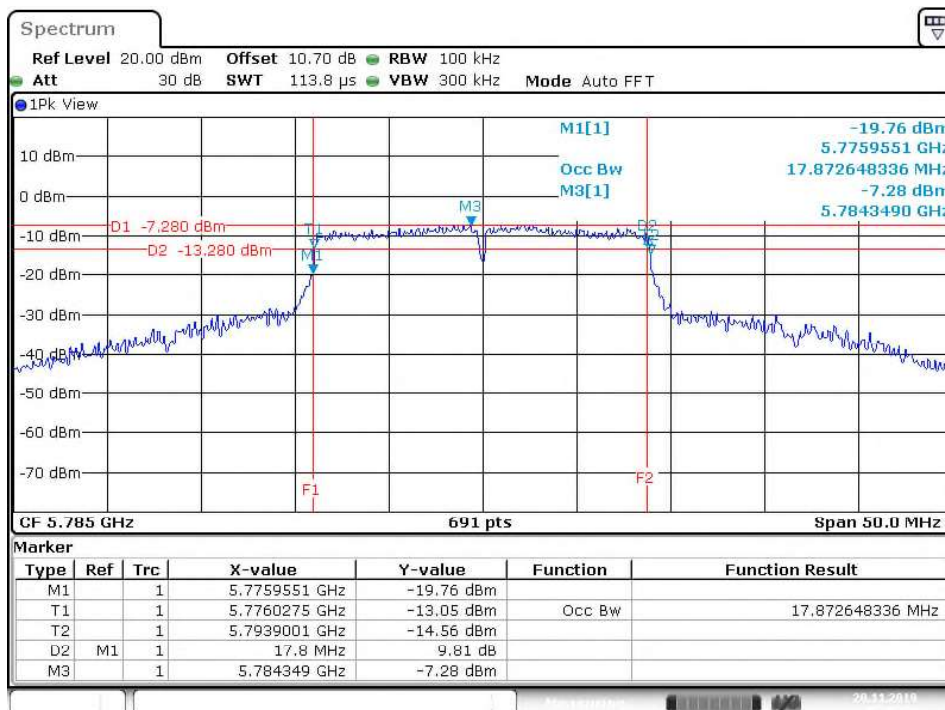
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High Channel


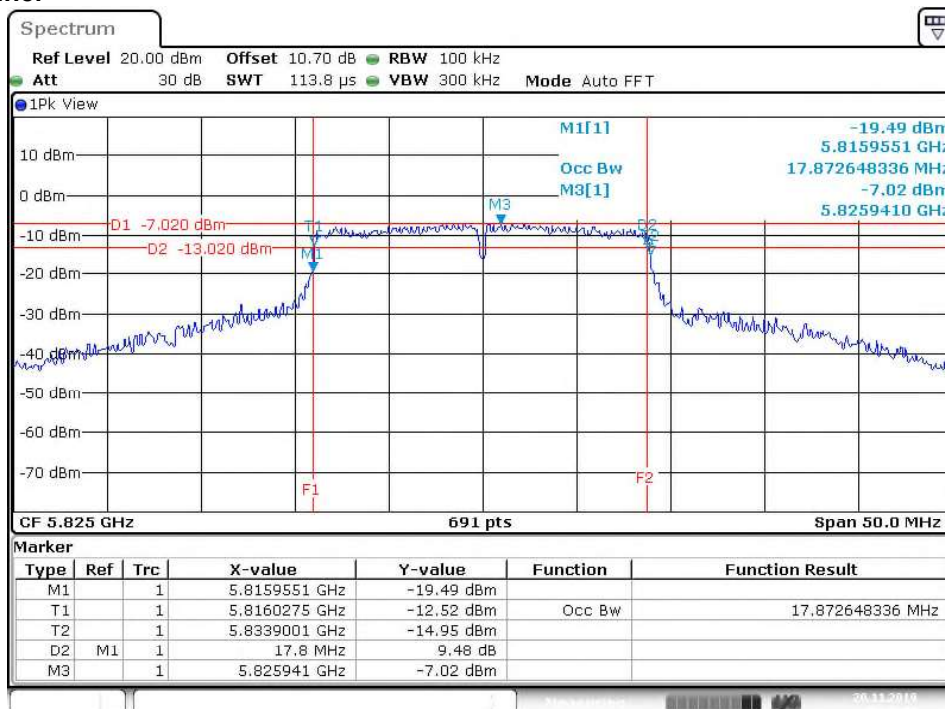
Date: 20.NOV.2019 15:02:37

Test Plot of 6dB Bandwidth for 802.11n HT20
Low Channel


Date: 20.NOV.2019 15:14:41

Middle Channel


Date: 20.NOV.2019 15:15:54

High Channel


Date: 20.NOV.2019 15:19:02

5.1.6 Power Density

RESULT:**Passed**

Test standard	:	LP0002(2018): 4.7.3.1(4)(B), 4.7.3.2(2), 4.7.3.3(2)
Basic standard	:	ANSI C63.10:2013, LP0002(2018): 4.7.3.4(2)
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	22-26°C
Relative humidity	:	50-65%
Atmospheric pressure	:	100-103 kPa

NCC Limit :

For client devices in the 5.15-5.25 GHz band, the maximum conducted power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum conducted power spectral density shall not exceed 30 dBm in any 500-kHz band.

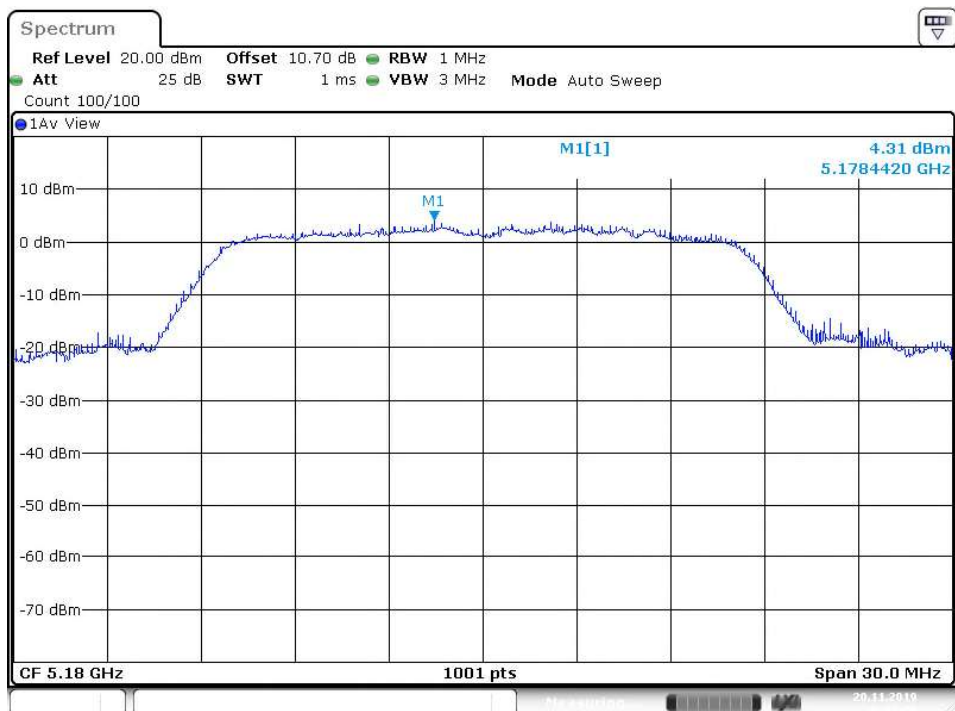
Table 12: Test result of Power Density

Mode	Channel Frequency (MHz)	Conducted Power Density			Power Density Limit
		(dBm/MHz)	Total (dBm/MHz)	Total (dBm/500kHz)	B1-B3 (dBm/MHz) B4 (dBm/500kHz)
802.11a	5180	4.31	4.31	-	11.00
	5200	5.12	5.12	-	11.00
	5240	4.42	4.42	-	11.00
	5745	0.80	0.80	-2.21	30.00
	5785	1.88	1.88	-1.13	30.00
	5825	3.08	3.08	0.07	30.00
802.11n HT20	5180	4.21	4.21	-	11.00
	5200	3.80	3.80	-	11.00
	5240	3.97	3.97	-	11.00
	5745	0.47	0.47	-2.54	30.00
	5785	0.93	0.93	-2.08	30.00
	5825	1.57	1.57	-1.44	30.00

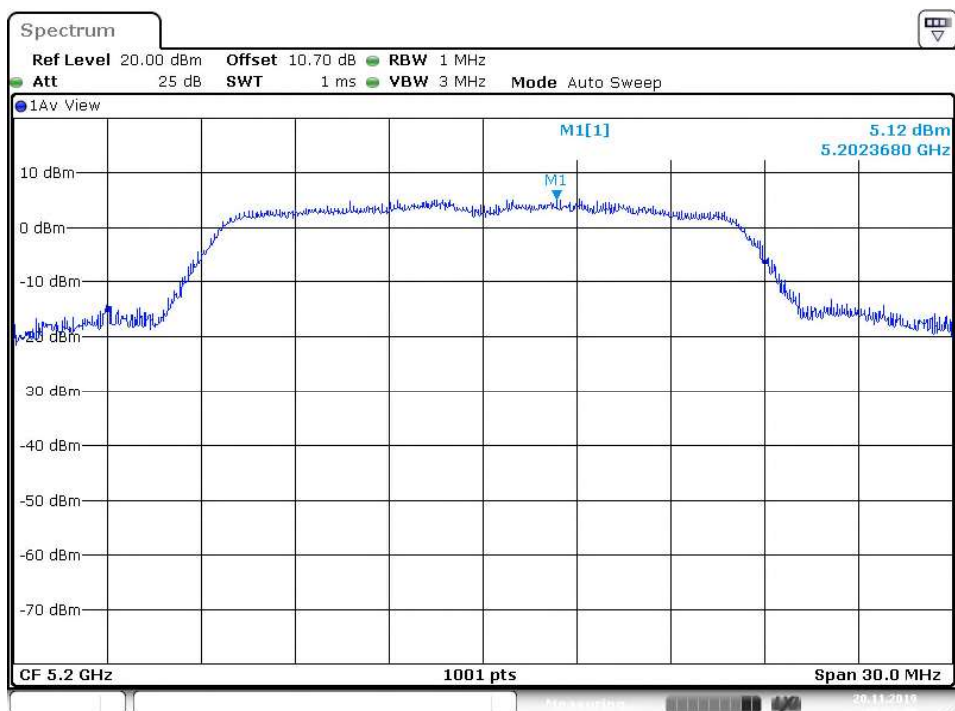
The formula dBm/MHz and dBm/500kHz is converted equal to Total (dBm/MHz)+10log(500kHz/1MHz).

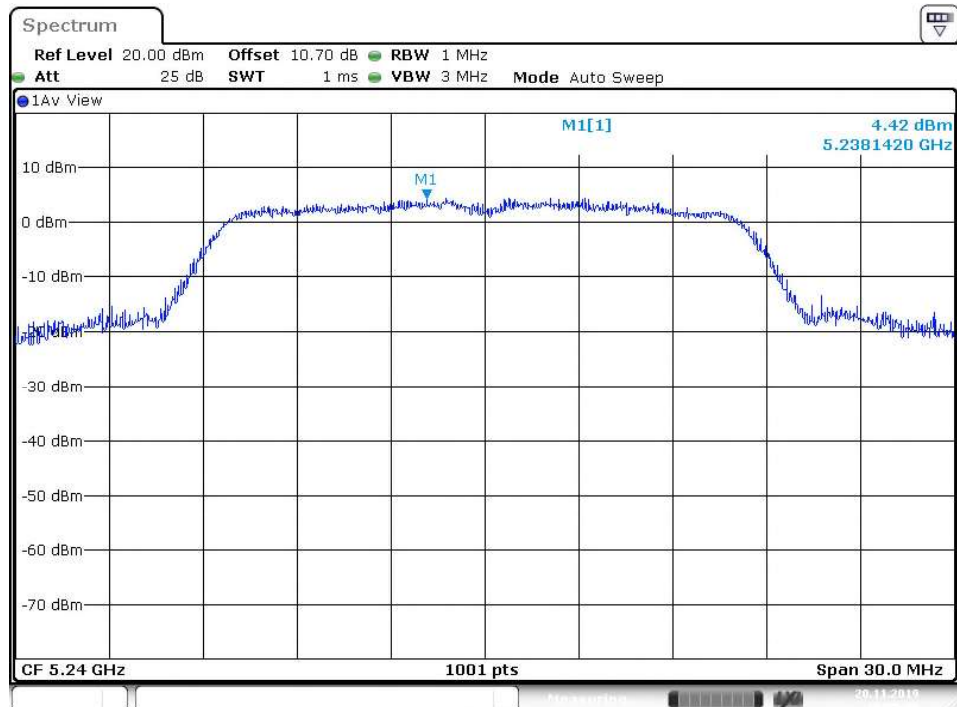
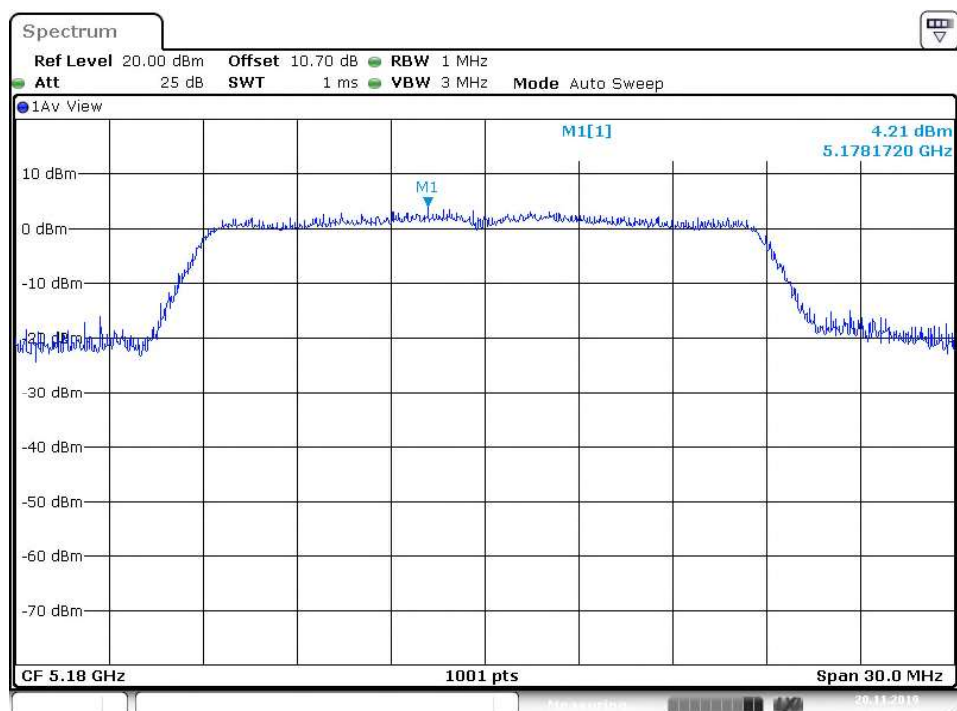
Test Plot of Power Density for band 1 802.11a

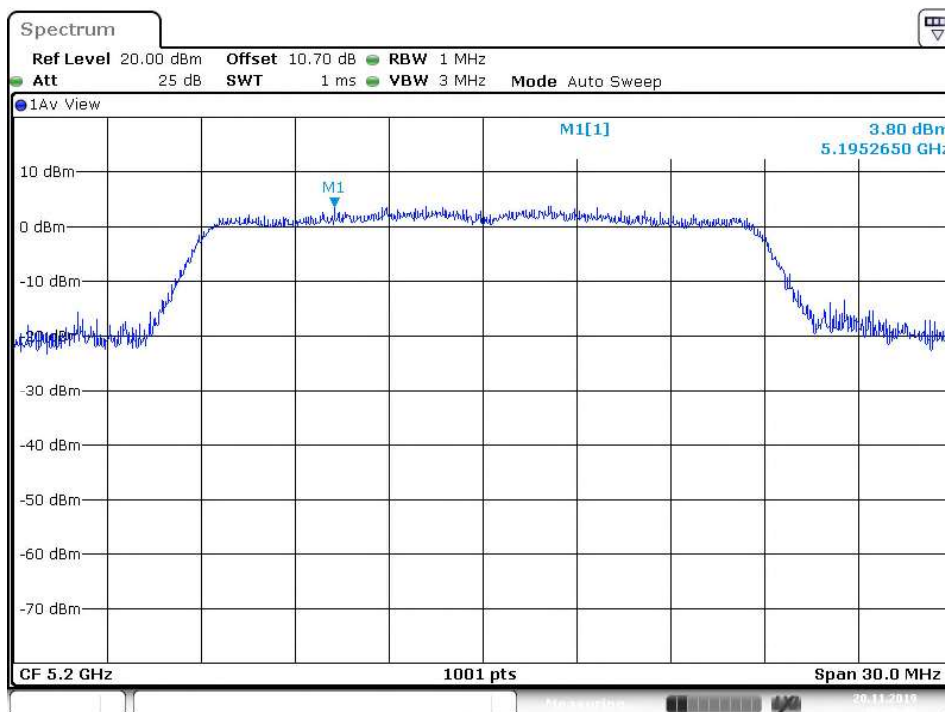
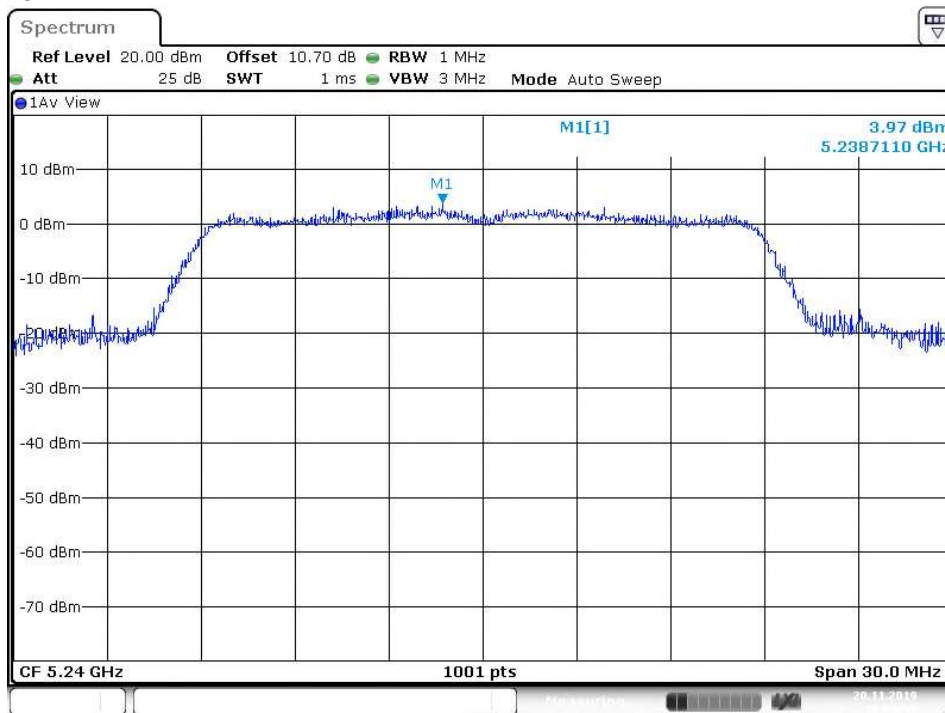
Low Channel



Middle Channel

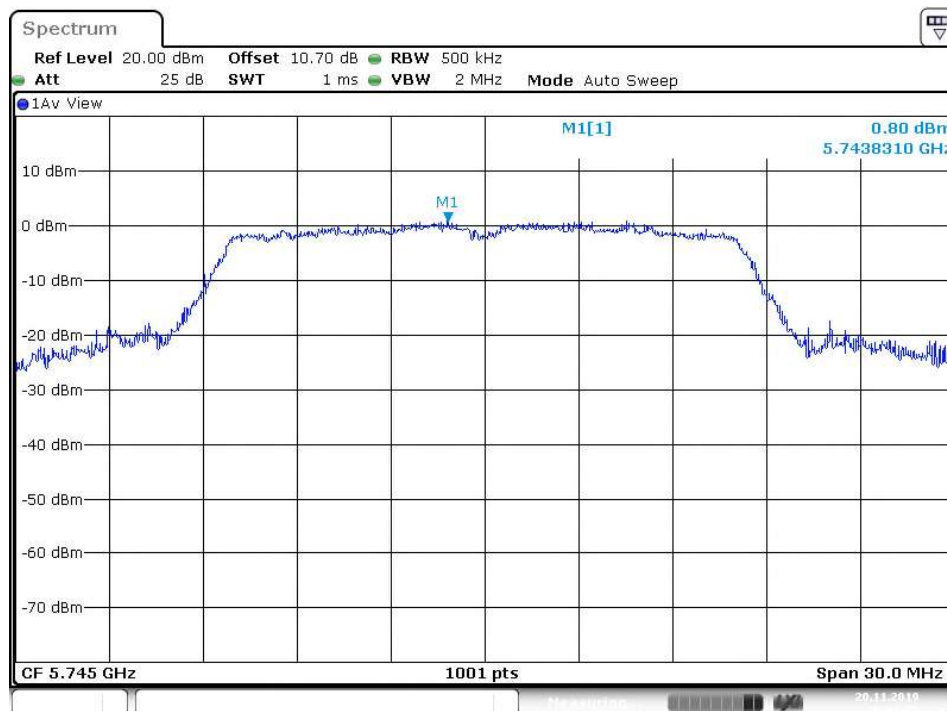


High Channel

802.11n HT20
Low Channel


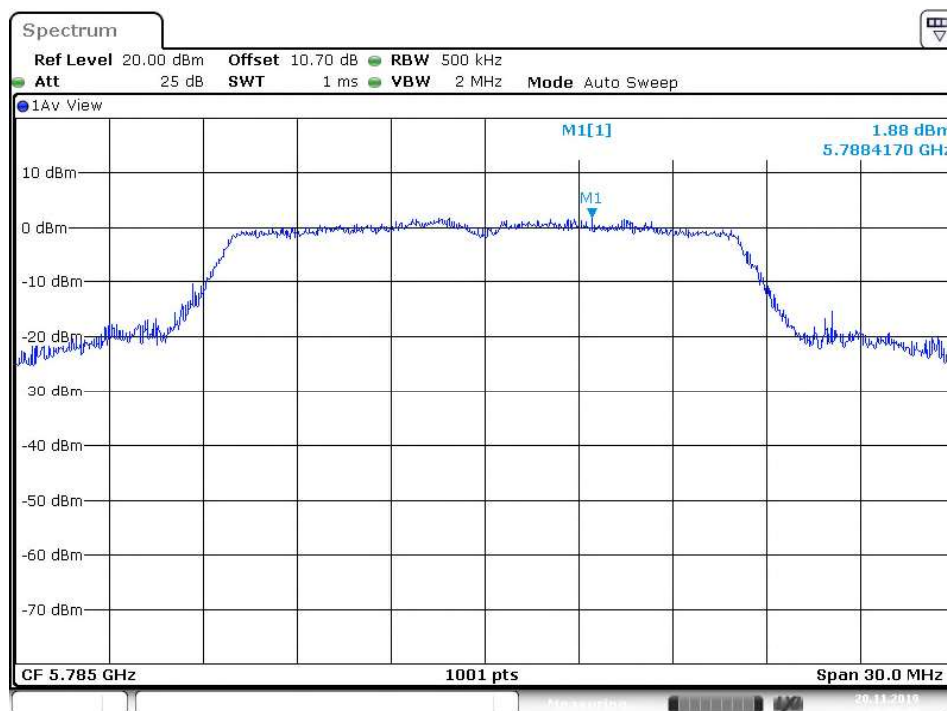
Middle Channel

High Channel


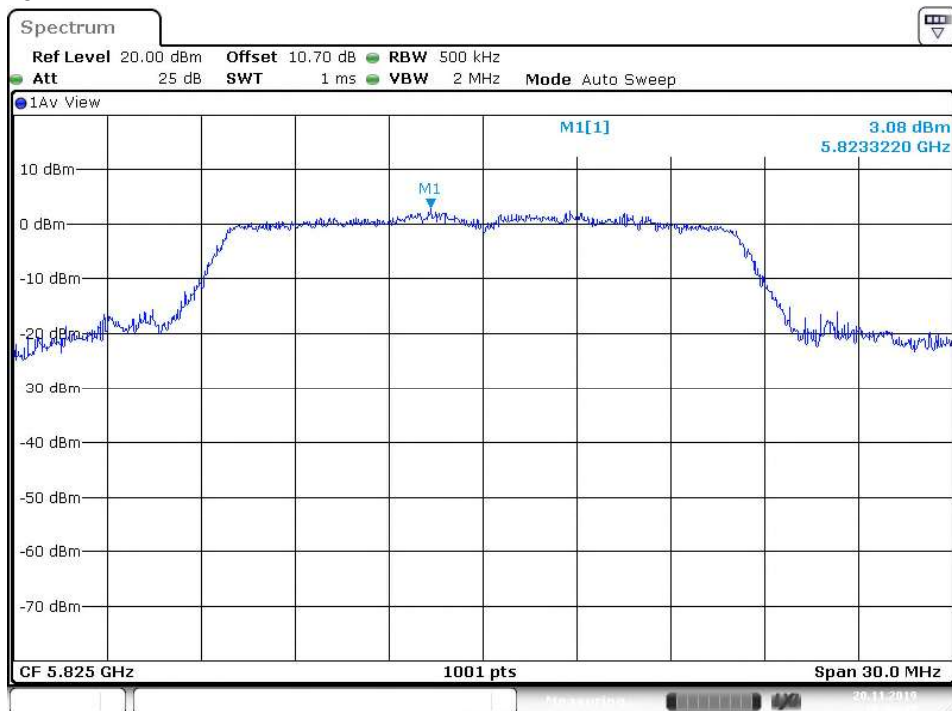
Test Plot of Power Density for band 4 802.11a

Low Channel

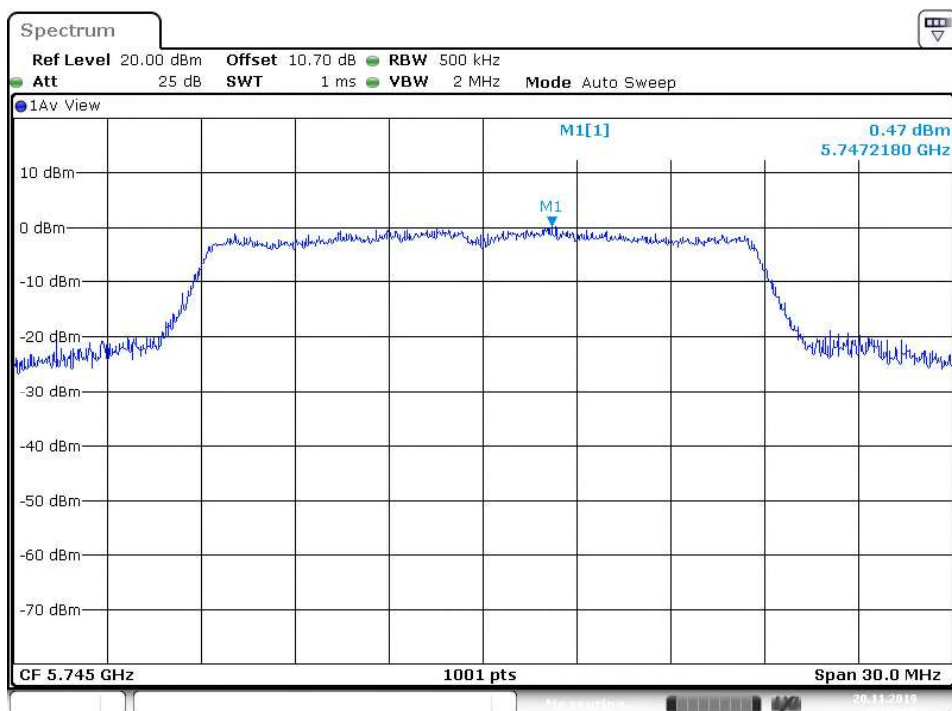


Middle Channel

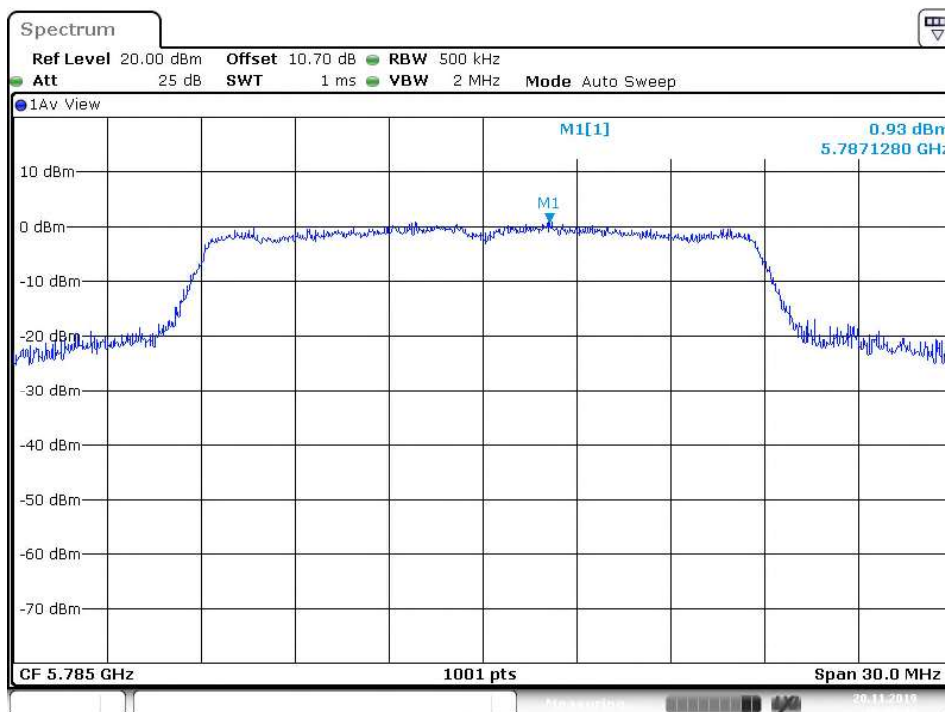


High Channel


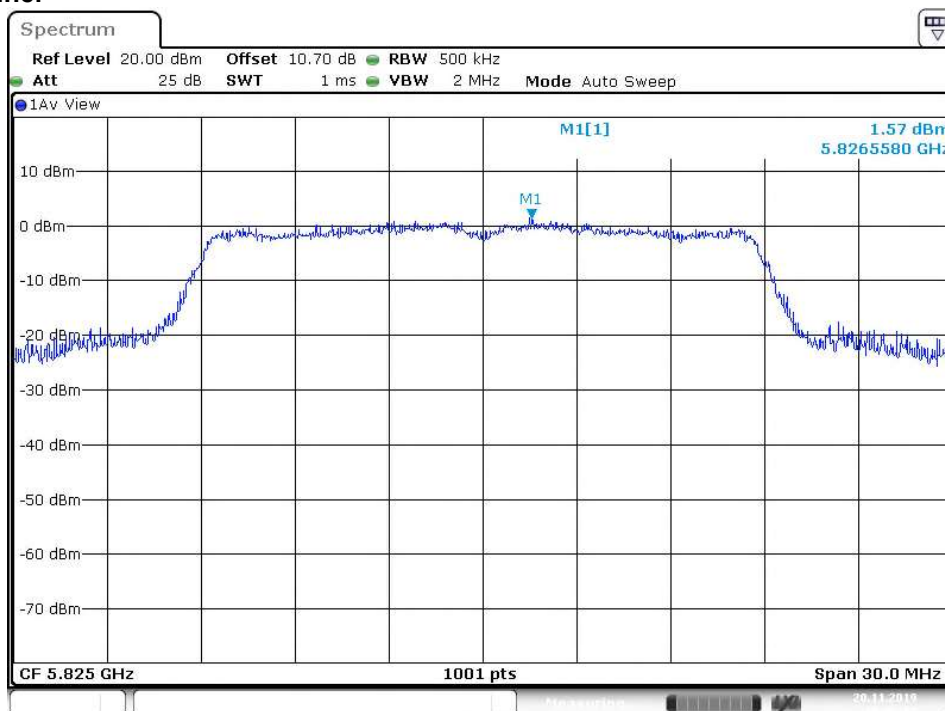
Date: 20.NOV.2019 16:42:47

802.11n HT20
Low Channel


Date: 20.NOV.2019 16:41:16

Middle Channel


Date: 20.NOV.2019 16:41:41

High Channel


Date: 20.NOV.2019 16:42:12

5.1.7 Spurious Emission

RESULT:**Passed**

Test standard : LP0002(2018): 4.7.4
Basic standard : ANSI C63.10: 2013
Limits : Radiated emissions which fall in the restricted bands, as defined in LP0002(2018): 2.7 , must comply with the radiated emission limits specified in LP0002(2018): 2.8

Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in LP0002(2018): 2.8

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

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

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

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

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.

5.1.8 Mains Conducted Emissions

RESULT:**Passed**

Test standard : LP0002(2018): 2.3
Limits : Mains Conducted emissions as defined in
above standards
Kind of test site : Shielded Room

Test setup

Test Channel : Middle
Operation mode : C

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

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

Remark: For details refer to Appendix D.

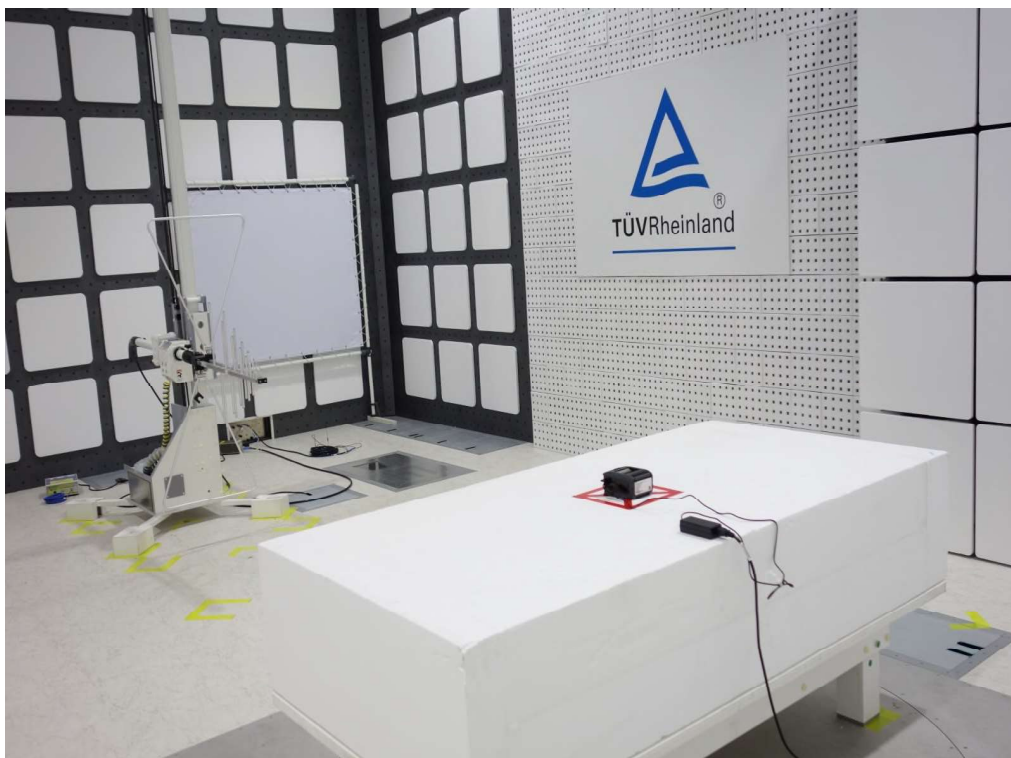
---End---

Photographs of the Test Set-Up

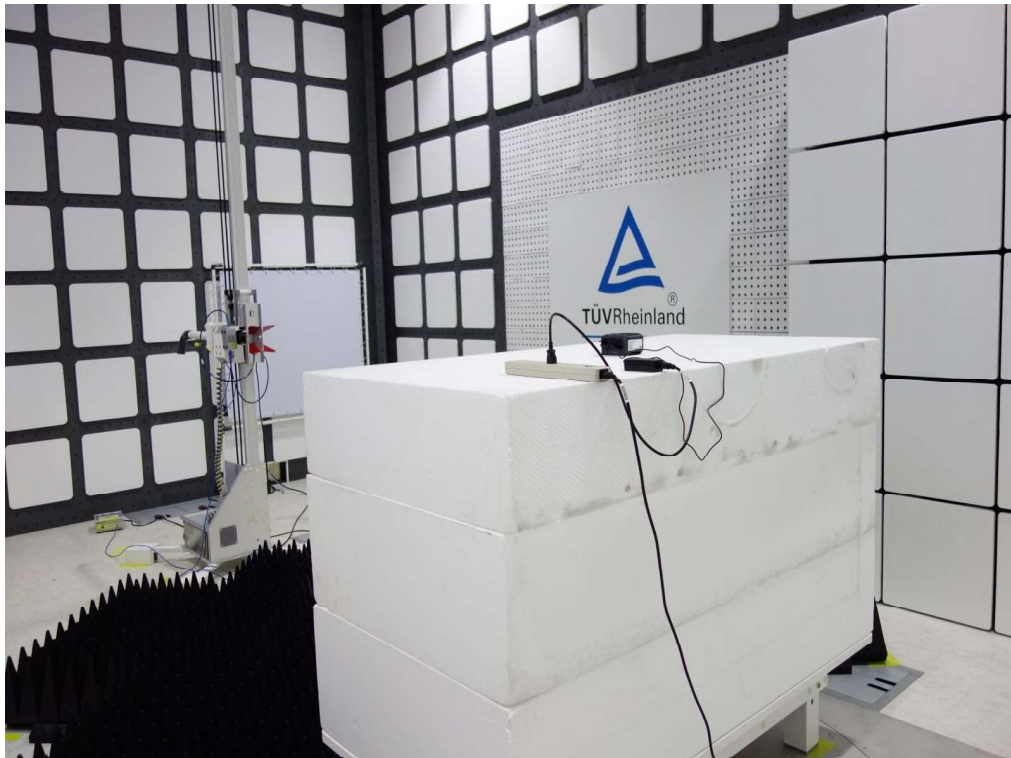
Photograph 1: Set-up for Spurious Emissions (Front View)



Photograph 2: Set-up for Spurious Emissions (Back View 1)



Photograph 3: Set-up for Spurious Emissions (Back View 2)



Photograph 4: Set-up for Mains Conducted testing (Back View)



Photograph 5: Set-up for Mains Conducted testing (Front View)



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