

Prüfbericht-Nr.: Test report no.:	ULR- TC568820300000042F	Auftrags-Nr.: Order no.:	166468642 0030	Seite 1 von 48 Page 1 of 48
Kunden-Referenz-Nr.: Client reference no.:	NA	Auftragsdatum: Order date:	2020-07-27	
Auftraggeber: Client:	Tejas Networks Limited, plot No.25 JP Software Park, Electronic city,Phase-1 Hosur Road, Bangalore-560100			
Prüfgegenstand: Test item:	Optical Network Terminal			
Bezeichnung / Serien -Nr.: Identification / Serial no.:	TJ2100N-14ET			
Auftrags-Inhalt: Order content:	Testing & issue of test report			
Prüfgrundlage: Test specification:	FCC Part 15 Subpart C 15.407, 15.207&15.209			
Wareneingangsdatum: Date of sample receipt:	TJ2100N-14ET			
Prüfmuster-Nr.: Test sample no.:	A002871314-001			
Prüfzeitraum: Testing period:	2020-08-19 - 2020-08-26			
Ort der Prüfung: Place of testing:	Wireless laboratory, Bangalore			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (India) Pvt. Ltd. 27/B,2nd cross road, Electronic city Phase1, Bangalore-560100, India FCC Test Site Registration No: 496599			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2020-08-28	Ausstellatum: Issue date: 2021-01-11			
Stellung / Position: Rajesh M Gowda Engineer	Stellung / Position: Mahammadgouse Kaladagi Assistant Manager			
Sonstiges / Other:	Contains FCC ID: 2AXV9-1638AA			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* 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. 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.				

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TEST SUMMARY

Test Item	Applicable Standard	Result
	FCC	
Emission Bandwidth	15.407 (a) & (e)	N/T
Frequency Stability	15.407 (g)	N/T
Maximum conducted output power	15.407 (a)	N/T
Maximum Power spectral density	15.407 (a)	N/T
Spurious Radiated Emissions & Restricted Bands of Operation	15.407 (b) /(15.205 &15.209)	Pass
Conducted AC Power Lines	15.207	Pass

Product Category: Electronics Testing
Test Discipline : EMC Test Facility

Note:

1. *N/T: Not tested – These test cases are not tested, the product uses certified RF module from Eardatek With FCC ID: 2AMM6-1638AA, multiple listing is done to this module with Change in FCC ID process and listed under FCC ID: 2AXV9-1638AA
2. This product contains Wi-Fi 2.4 GHz, Wi-Fi 5GHz and Bluetooth module since client is not using Bluetooth module it is completely disabled by software.
3. Product TJ2100N-14ET has been integrated with following certified radio modules, each module is used for either 2.4 GHz or 5 GHz transmission, simultaneous transmission is possible, for results refer section 3.3 of this report

SI No.	Radio Protocol supported	Radio protocol used in the Host	FCC ID	No of transmitter	Original module Tested By
1	Wi-Fi - 2.4 GHz & 5 GHz	Wi-Fi 2.4 GHz only	2AXV9-1638AA	1	Eardatek
2	Wi-Fi - 2.4 GHz & 5 GHz	Wi-Fi 5 GHz only	2AXV9-1638AA	1	Eardatek

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REVISION HISTORY OF THIS REPORT

Report Number	Version	Description	Issue date
ULR-TC568820300000042F	01	Initial issue of report	2020-10-16
ULR-TC568820300000042F	02	Change in ID updates to report	2020-12-24
ULR-TC568820300000042F	03	Reviewer comments updated	2021-01-11

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1 GENERAL REMARKS

1.1 Attachments

All attachments are integral part of this test report.

1. TEST SETUP PHOTOS
2. EUT EXTERNAL PHOTOS
3. EUT INTERNAL PHOTOS
4. FCC LABEL AND LABEL LOCATION
5. BLOCK DIAGRAM
6. SPECIFICATION OF EUT
7. SCHEMATIC DIAGRAMS
8. BILL OF MATERIAL
9. USER MANUAL
10. MAXIMUM PERMISSIBLE EXPOSURE INFORMATION

2 TEST SITES

2.1 Testing Facilities

1. TÜV Rheinland (India) Private Limited.
27/B, 2nd Cross,
Electronic City Phase1
Bangalore – 560 100,
India
2. TUV Rheinland (India) Private Limited.
108 , Beside ISBR Business School,
Electronic City Phase1
Bangalore - 560 100.
India

2.2 List of Test and Measurement Instruments

Table 1: List of test and measurement instruments

Equipment	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Test Facility
EMI Receiver	Rohde & Schwarz	ESU 40	100288	4.43 SP3	11.10.2020	Yearly	Radiated Spurious Emission
Active loop antenna	Schwarzbeck	FMZB 1519 B	1519B-00111	-	31.01.2021	Yearly	
Biconical Antenna	Schwarzbeck	VHBB91 24+BBA 9106	9124-1208+9106-0525	-	16.01.2021	Yearly	
Log - Periodical Antenna	Schwarzbeck	VUSLP 9118 A	VULP911 8A-0733	-	17.01.2021	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-1944	-	30.01.2021	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-0904	-	29.01.2021	Yearly	
Semi Anechoic Chamber	Frankonia	-	-	-	-	-	
Fully Anechoic Chamber	Albatross	-	-	-	-	-	
USB Peak power sensor	Boonton	55006	10231	FW 3.2.4.0	09.01.2021	Yearly	Antenna - Port Measurements
EMI Receiver	Rohde & Schwarz	ESW 44	101732	-	10.12.2020	Yearly	AC Power line conducted emission
LISN	Rohde & Schwarz	ENV 216	100022	-	05.09.2020	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	-	09.01.2021	Yearly	

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Table 2: Instrument application Software versions

SL. No.	Test Type	Application software	Version
1	Radiated spurious emission measurement in SAC	EMC 32	10.60.00
2	Radiated spurious emission measurement in FAC	EMC 32	10.60.00

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

TJ2100N-14ET system is an access node in FTTH architecture of GPON system. The system is a single card system and is designed to serve a single residential unit. ONT operates in Non-AC conditions and is powered by 12V power adaptor. AC-DC adaptor is provided to support working with 90-270V, 50Hz, AC supply. ONT can be installed on table top and wall mounted enclosure suitable for indoor environments. There are no restrictions on installing the ONT. On one side it has fiber (GPON) interface and on other side it has user interfaces with upto 4 LAN ports with RJ-45 interface supporting 10/100/1000 BaseT, 1 USB, 2x2 MIMO Wi-Fi (IEEE 802.11 a/b/g/n/ac), and 2 POTS interface.

3.2 Ratings and System Details of Equipment under Test

Table 3: Ratings and System Details as declared by the Client*

Radio Protocol		Wi-Fi	
Operating Frequency Range		UNII-1 _ 5150MHz to 5250MHz UNII-3 _ 5725MHz to 5825MHz	
No. of Channels		4 (Refer Table 5)	
Channel Spacing		20 MHz	
Modulation		802.11a/ac/n: OFDM with BPSK, QPSK, 16-QAM, 64-QAM	
Maximum Measured Power (e.i.r.p)		17.17dBm (6Mbps 5785MHz)	
Number of antennas		2*2 MIMO (5GHz)	
Antenna Gain		Antenna 1	5 dBi
		Antenna 2	5 dBi
Antenna Type		FPC	
Supply Voltage to Product		1.5A @ 12V DC	
Environmental Conditions	0°C to +60°C Relative Humidity <95%	-40°C to +70°C Relative Humidity <95%	
	-50°C to +120°C Relative Humidity <95%		
EUT Dimension		240 x 61 x 170 mm (LxWxH)	

***Disclaimer:** The information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results.

Note: Product Optical Network Terminal has multiple protocols. All the supported wireless protocols and their respective test results are issued in separate test reports, refer clause 4.6 Report Reference

3.3 Simultaneous operation

Mode of Combinations of Simultaneous Operations	Wi-Fi -2.4 GHz and Wi-Fi 5GHz
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Note: Simultaneous Operation was performed with the above mentioned combination and worst case test results are mentioned in section 8 of this report.

3.4 Measurement Uncertainty:

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 4: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
SAC, radiated measurement	$\pm 6 \text{ dB}$
FAC, radiated measurement	$\pm 6 \text{ dB}$
Temperature	$\pm 3 \text{ }^{\circ}\text{C}$
Supply Voltages	$\pm 3 \%$
Time	$\pm 5 \%$

Note: The listed uncertainties are the worst case uncertainty for the entire range of measurements and are for the reporting purpose only and are not used in determining the PASS/FAIL of the results.

4 TEST SET-UP AND OPERATION MODE

4.1 Principle of Configuration Selection

- Transmission enabled with highest possible duty cycle transmission on low, mid and high channel.

4.2 Test Operation and Test Software

- Software Version: 2.3.4.14
- Hardware Version: Rev3

4.3 Special Accessories and Auxiliary Equipment

- None

4.4 Countermeasures to achieve EMC Compliance

- None

4.5 List of frequencies

Frequency Band	Channel No.	Frequency (MHz)
5150–5250 MHz	36	5180
	38	5190
	40	5200
	42	5210
	46	5230
	48	5240
5725-5825 MHz	149	5745
	151	5755
	157	5785
	159	5795
	165	5825

Table 5: List of Wi-Fi center Frequencies

Channel used for Wi-Fi Testing

Channel Bandwidth: 20MHz

Channel Bandwidth: 40MHz

Channel Bandwidth: 80MHz

Channel Low: 5180MHz

Channel Low: 5190MHz

Channel Low: 5210MHz

Channel Mid: 5200MHz

Channel High: 5230MHz

Channel High: 5240MHz

Channel Low: 5755MHz

Channel Low: 5745MHz

Channel High: 5795MHz

Channel Mid: 5785MHz

Channel High: 5825MHz

Note:

TUV Sample Identification number : A002871314-001 -Radiated & Conducted test Sample

4.6 Report Reference

Note: Product Optical Network Terminal has multiple protocols. All the supported wireless protocols and their respective test results are issued in separate test reports, following table lists the report numbers.

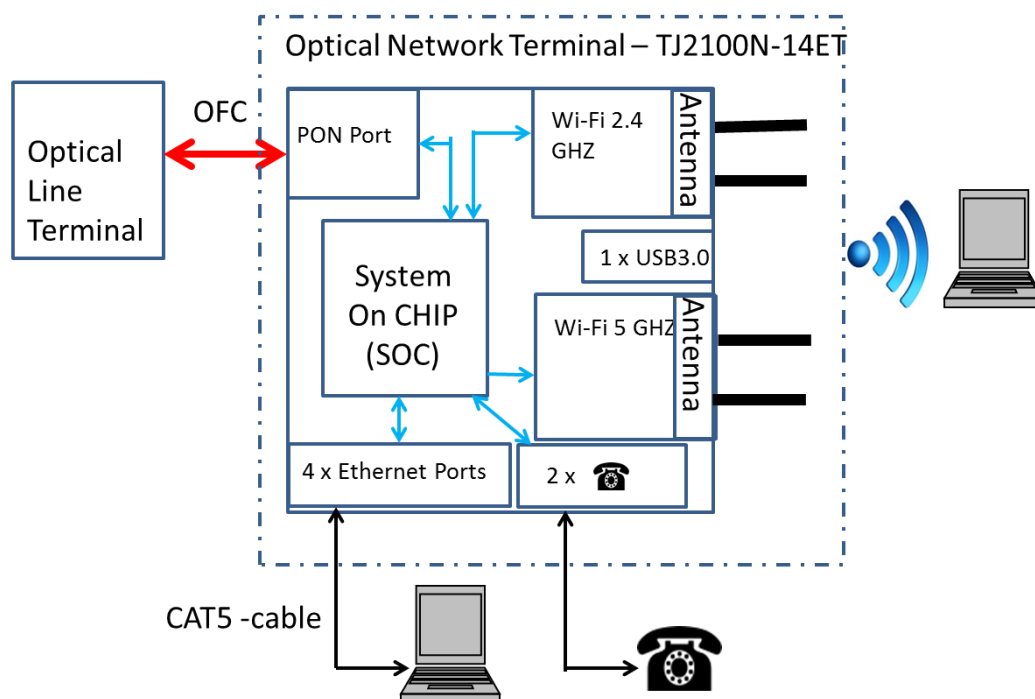
Radio Protocol	Report Number
RF test report for Wi-Fi (5GHz) – (This report)	ULR-TC568820300000042F
RF test report for Wi-Fi (2.4GHz)	ULR-TC568820300000041F

5 Operational Description

TJ2100N-14ET system is an access node in FTTH architecture of GPON system. The system is a single card system and is designed to serve a single residential unit. ONT operates in Non-AC conditions and is powered by 12V power adaptor. AC-DC adaptor is provided to support working with 90-270V, 50Hz, AC supply. ONT can be installed on table top and wall mounted enclosure suitable for indoor environments. There are no restrictions on installing the ONT.

On one side it has fiber (GPON) interface and on other side it has user interfaces with upto 4 LAN ports with RJ-45 interface supporting 10/100/1000 BaseT, 1 USB, 2x2 MIMO Wi-Fi (IEEE 802.11 a/b/g/n/ac) , and 2 POTS interfaces.

6 Block Diagram



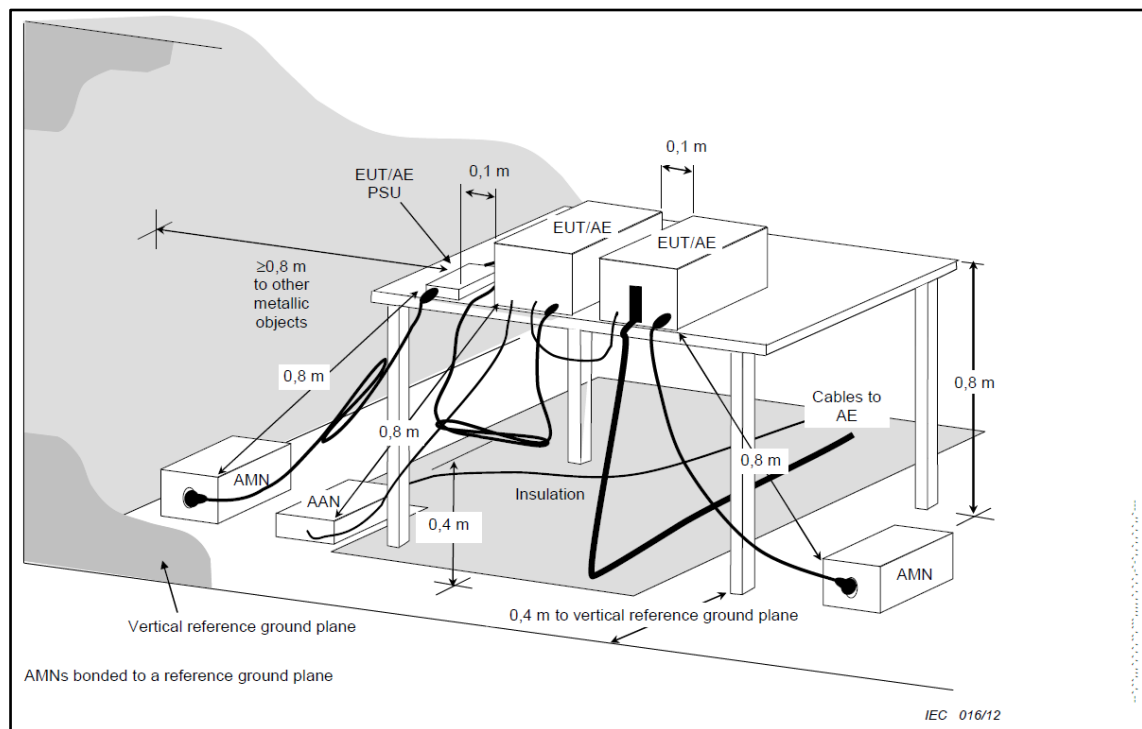
7 TEST METHODOLOGY

7.1 Conducted Spurious Emission AC Power line Test

Measured levels of ac power-line conducted emission across the 50Ω LISN port (to which the EUT is connected). All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The device is placed on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered by 2 methods and both methods are tested individually, one with an AC adaptor with 110V AC 60Hz supply and second with Wireless charger with supply 110V AC 60Hz.

7.1.1 Test Setup Configuration



7.2 Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000 MHz was performed by horn antenna, The measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 200 MHz was performed by Baloon and Biconical Antenna, and measurement from 200 MHz to 1 GHz was performed by Log-Periodic Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded

7.2.1 Test Setup Configuration

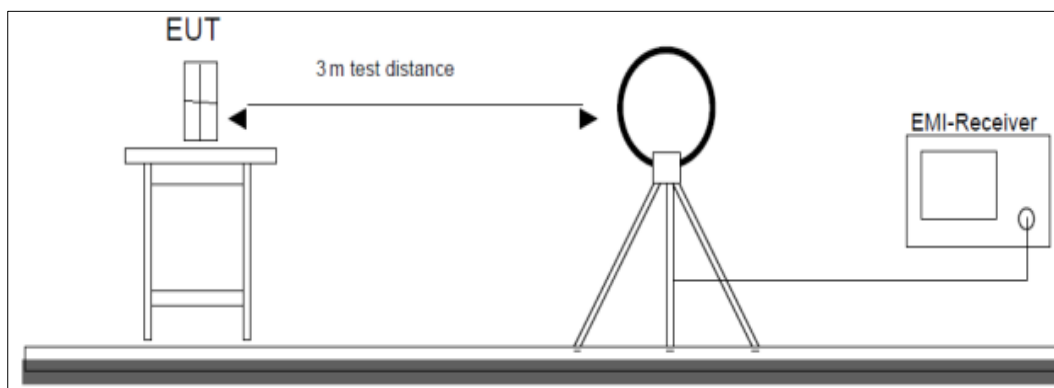


Figure 1: Frequency Range 9 kHz- 30 MHz

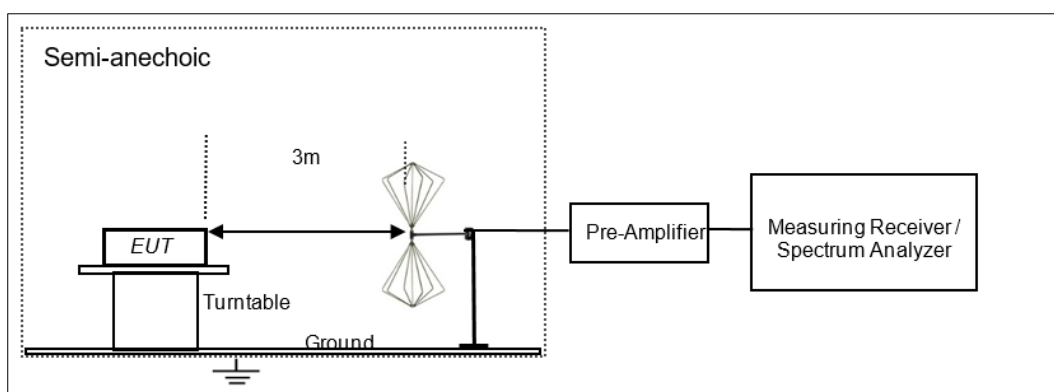


Figure 2: Frequency Range 30 MHz – 200 MHz

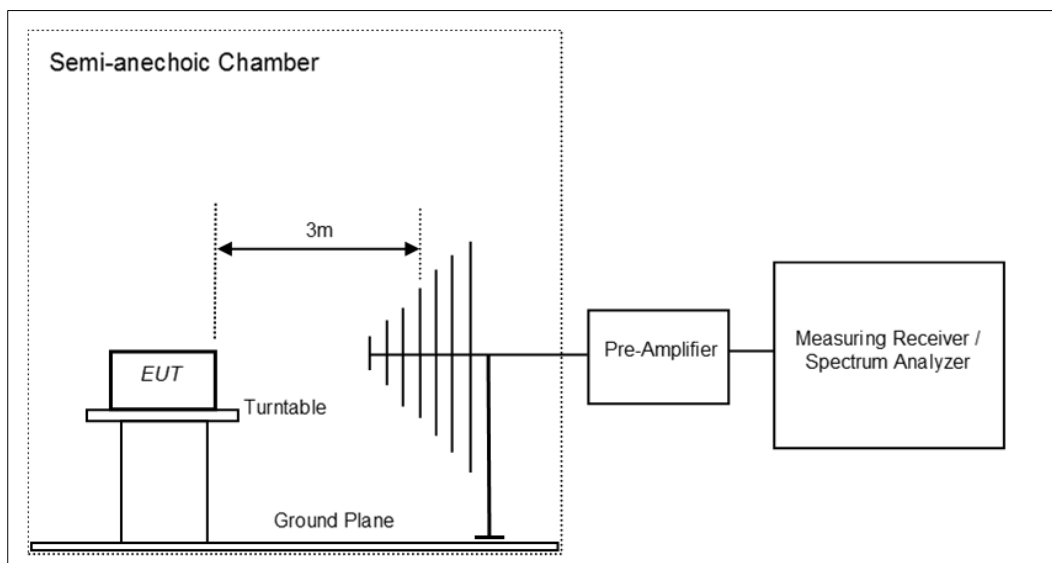


Figure 3: Frequency Range 200 MHz - 1GHz

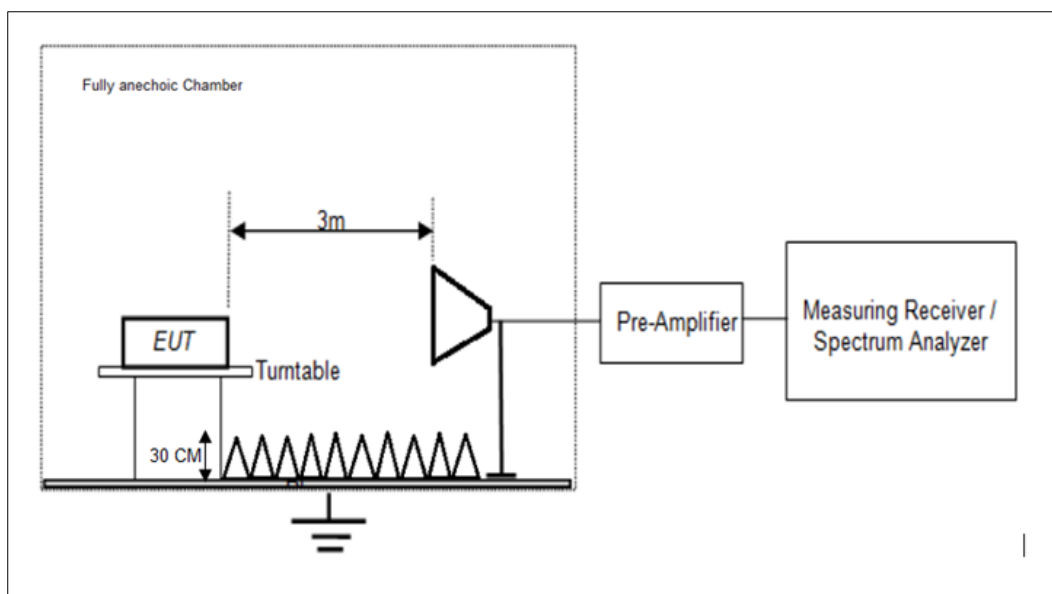


Figure 4: Frequency Range above 1 GHz

8 RESULTS FOR Wi-Fi-5GHz

8.1 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	FCC part 15 Subpart C Section 15.407 (b) (15.205 & 15.209)
Test Method	ANSI C 63.10 – 2013
Measurement Bandwidth	100kHz for below 1GHz 1MHz for above 1GHz
Measurement Location	Semi Anechoic Chamber 30MHz - 1 GHz Fully Anechoic Chamber 1 GHz - 40GHz
Measuring Distance	3 m
Detector	Refer Remark
Requirement	As per the limits mentioned in the below table
Test setup	Refer TEST METHODOLOGY

Limit:

Table 6: Undesirable emission limits

Frequency Band	Limit
5.15-5.25 GHz	e.i.r.p. -27dBm [68.2 dBuV/3m]
5.25-5.35 GHz	e.i.r.p. -27dBm [68.2 dBuV/3m]
5.47-5.725 GHz	e.i.r.p. -27dBm [68.2 dBuV/3m]
5.725-5.85 GHz	5.715 GHz to 5.725 GHz - e.i.r.p. -17dBm [78.2 dBuV/3m] 5.85 GHz to 5.86 GHz - e.i.r.p. -17dBm [78.2 dBuV/3m] other frequency range - e.i.r.p. -27dBm [68.2 dBuV/3m]

Table 7: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Conditions:

Supply Voltage: 12V DC

Environmental conditions:

Temperature: +25 °C

RH: 62 %

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Test results:

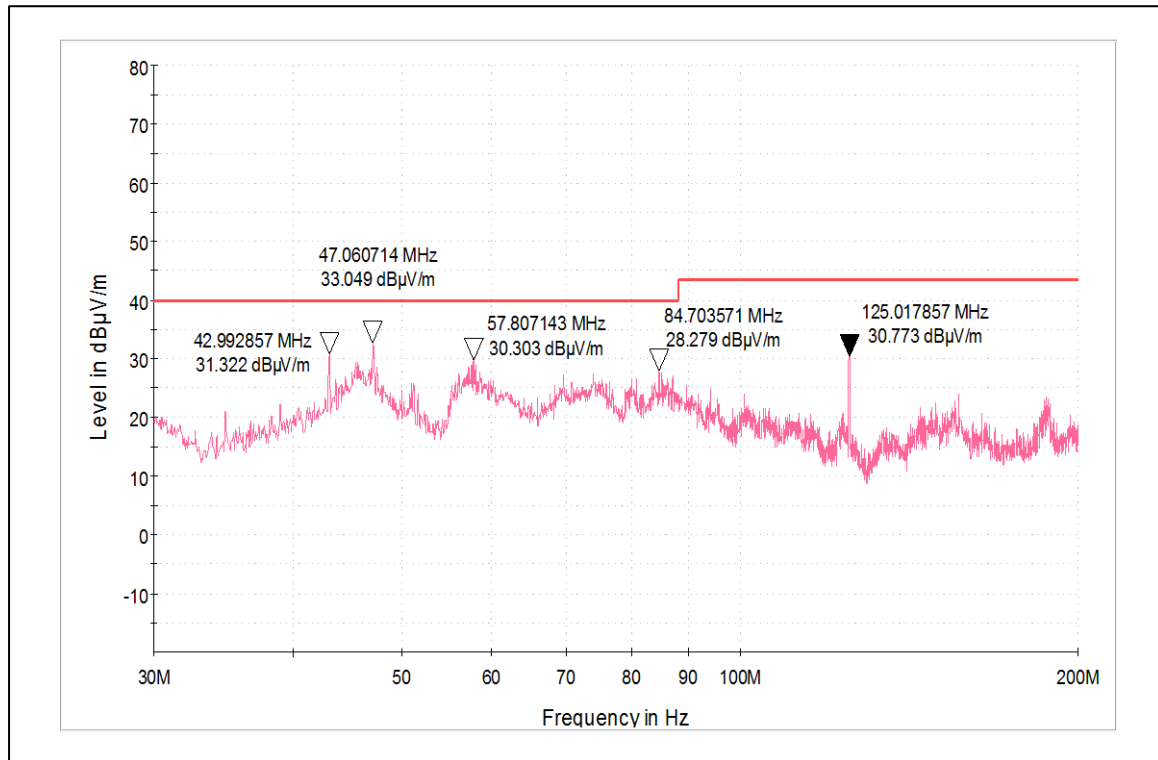
Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

Test results for Frequency range : 9kHz – 30MHz

No Emissions found in the frequency range 9kHz – 30MHz

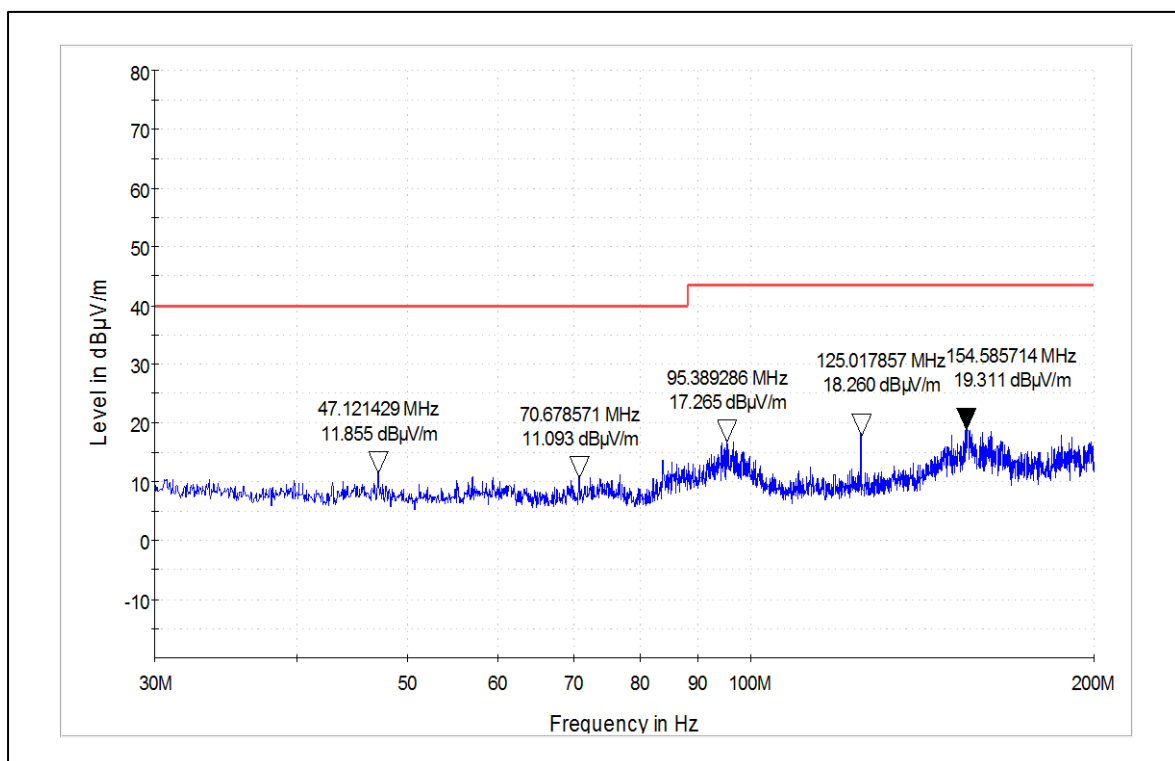
Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Frequency (MHz)	Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	42.99	31.32	40	-8.68
	47.06	33.04	40	-6.96
	84.7	28.27	40	-11.73
	125.01	30.77	43.5	-12.73
	249.97	26.19	46	-19.81
	381.5	25.82	46	-20.18
	499.98	34.54	46	-11.46
	907.27	36.22	46	-9.78
Horizontal	47.12	11.85	40	-28.15
	95.38	17.26	43.5	-26.24
	125.01	18.26	43.5	-25.24
	154.58	19.31	43.5	-24.19
	249.97	24.99	46	-21.01
	290.8	30.30	46	-15.70
	499.98	33.53	46	-12.47
	896.48	34.67	46	-11.33



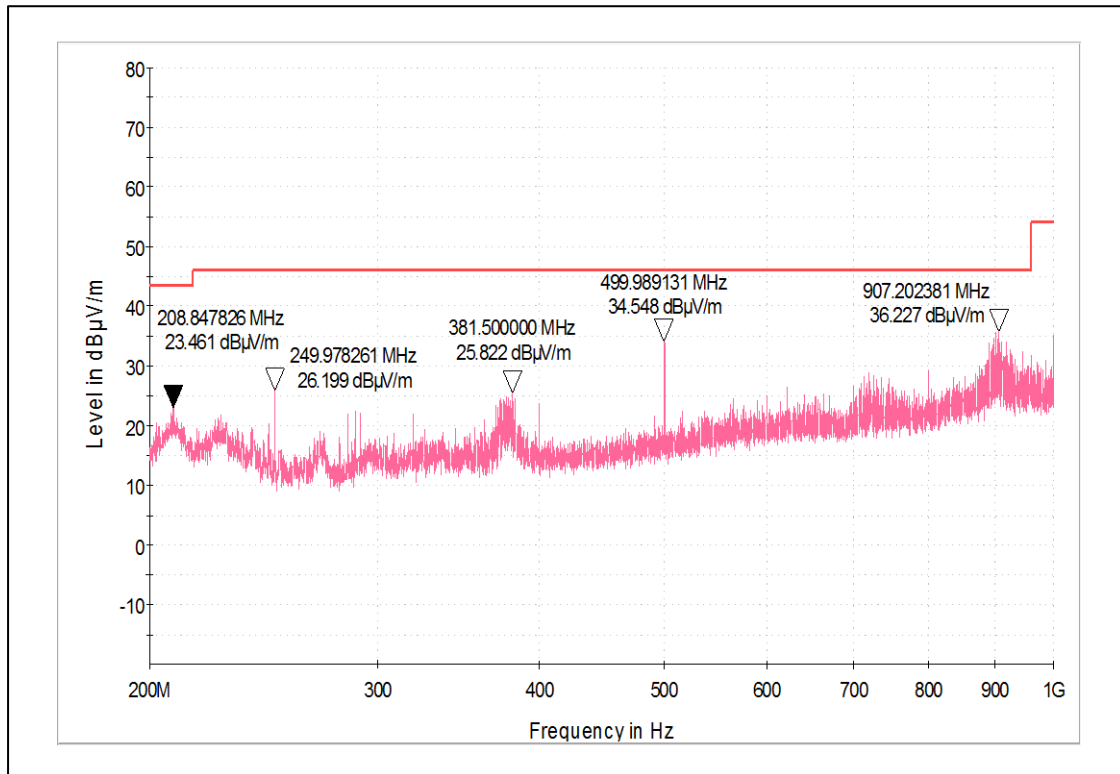
Frequency Range: 30MHz-200MHz

Polarization: Vertical



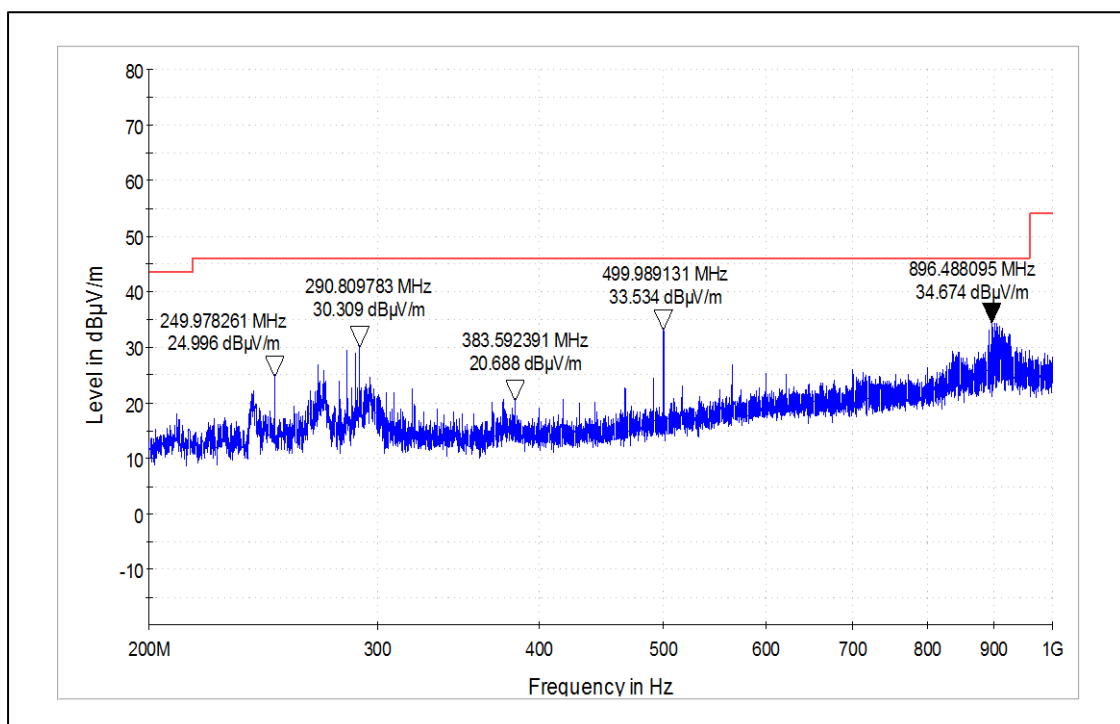
Frequency Range: 30MHz-200MHz

Polarization: Horizontal



Frequency Range: 200MHz-1GHz

Polarization: Vertical



Frequency Range: 200MHz-1GHz

Polarization: Horizontal

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Test results for frequency range – 1GHz to 40 GHz

Modulation: 802.11a
Data rate: 6Mbps

Frequency Band	Channel No. or Frequency (MHz)	Polarization	Frequency (MHz)	Emission level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150-5250 (UNII-1)	36(5180)	vertical	5150(Pk)	51.89	74*	-22.11
			5150(Av)	38.97	54*	-15.03
			5180(Pk)	92.97	-	-
			5180(Av)	83.33	-	-
			10360(Pk)	54.94	68.20	-13.26
			10360(Av)	39.29	54.00	-14.71
		Horizontal	5150(Pk)	61.00	74*	-13.00
			5150(Av)	48.33	54*	-5.67
			5180(Pk)	100.55	-	-
			5180(Av)	90.28	-	-
			10360(Pk)	51.30	68.20	-16.90
			10360(Av)	39.59	54.00	-14.41
	40(5200)	Vertical	5200(Pk)	91.39	-	-
			5200(Av)	82.38	-	-
			10400(Pk)	51.39	68.20	-16.81
			10400(Av)	39.40	54.00	-14.60
		Horizontal	5200(Pk)	102.67	-	-
			5200(Av)	92.77	-	-
			10400(Pk)	52.53	68.20	-15.67
			10400(Av)	40.25	54.00	-13.75
	48(5240)	vertical	5240(Pk)	86.77	-	-
			5240(Av)	77.12	-	-
			5350(Pk)	43.08	74*	-30.92
			5350(Av)	30.25	54*	-23.95
			10480(Pk)	51.45	68.20	-16.75
			10480(Av)	39.95	54.00	-14.05
		Horizontal	5240(Pk)	103.15	-	-
			5240(Av)	93.45	-	-
			5350(Pk)	50.59	74*	-23.41
			5350(Av)	38.84	54*	-15.16
			10480(Pk)	51.63	68.20	-16.57
			10480(Av)	39.82	54.00	-14.18

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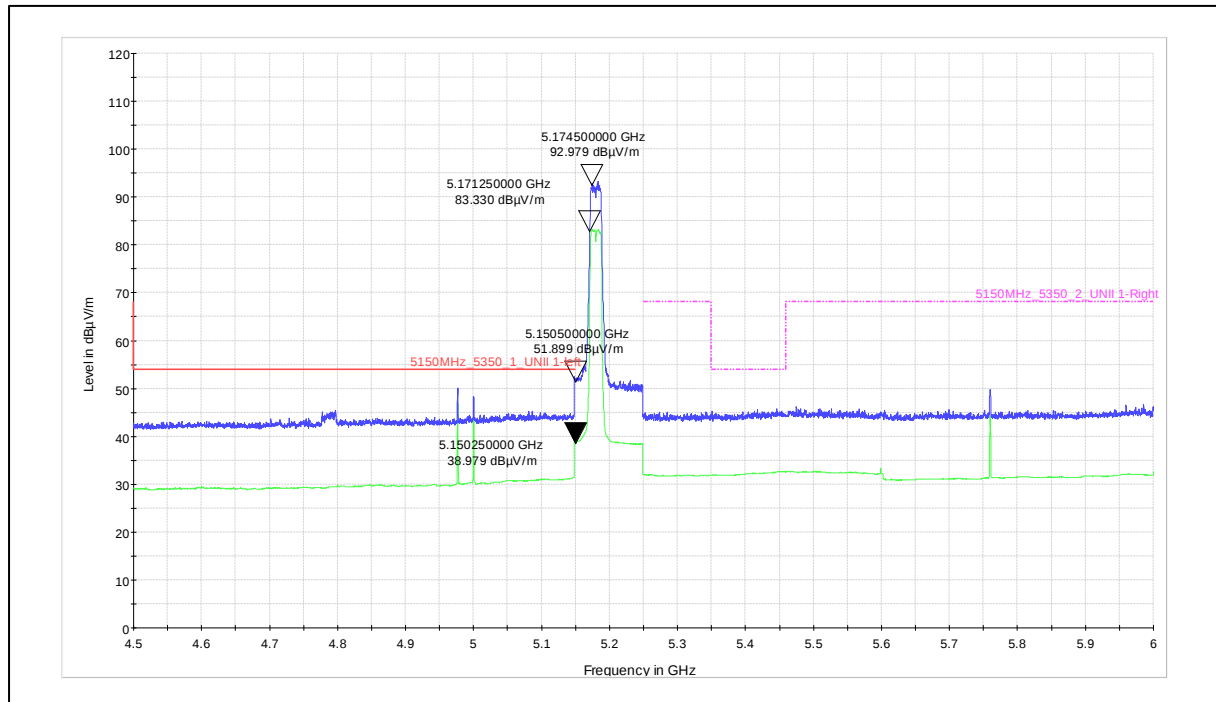
5725-5850 (UNII-3)	149(5745)	Vertical	5715(Pk)	52.75	78.2	-25.45
			5725(Pk)	66.64	78.2	-11.63
			5745(Pk)	91.18	-	-
			5745(Av)	81.69	-	-
			11490(Pk)	55.11	74.00*	-18.89
			11490(Av)	42.81	54.00*	-11.19
		Horizontal	5715(Pk)	50.67	78.2	-27.53
			5725(Pk)	62.45	78.2	-15.75
			5745(Pk)	105.95	-	-
			5745(Av)	95.93	-	-
			11490(Pk)	57.85	74.00*	-16.15
			11490(Av)	44.84	54.00*	-09.16
	157(5785)	Vertical	5785(Pk)	90.39	-	-
			5785(Av)	80.93	-	-
			11570(Pk)	54.85	74.00*	-19.15
			11570(Av)	43.06	54.00*	-10.94
		Horizontal	5785(Pk)	106.41	-	-
			5785(Av)	96.75	-	-
			11570(Pk)	59.65	74.00*	-14.35
			11570(Av)	47.22	54.00*	-6.78
	165(5825)	Vertical	5825(Pk)	91.09	-	-
			5825(Av)	81.45	-	-
			5850(Pk)	63.31	78.2	-14.89
			5860(Pk)	56.50	78.2	-21.70
			11650(Pk)	54.44	74.00*	-19.56
			11650(Av)	42.69	54.00*	-11.31
		Horizontal	5825(Pk)	106.59	-	-
			5825(Av)	96.81	-	-
			5850(Pk)	59.71	78.2	-18.49
			5860(Pk)	52.54	78.2	-25.66
			11650(Pk)	53.19	74.00*	-20.81
			11650(Av)	40.96	54.00*	-13.04

Note:

* :- Indicate restricted band frequency in 15.205

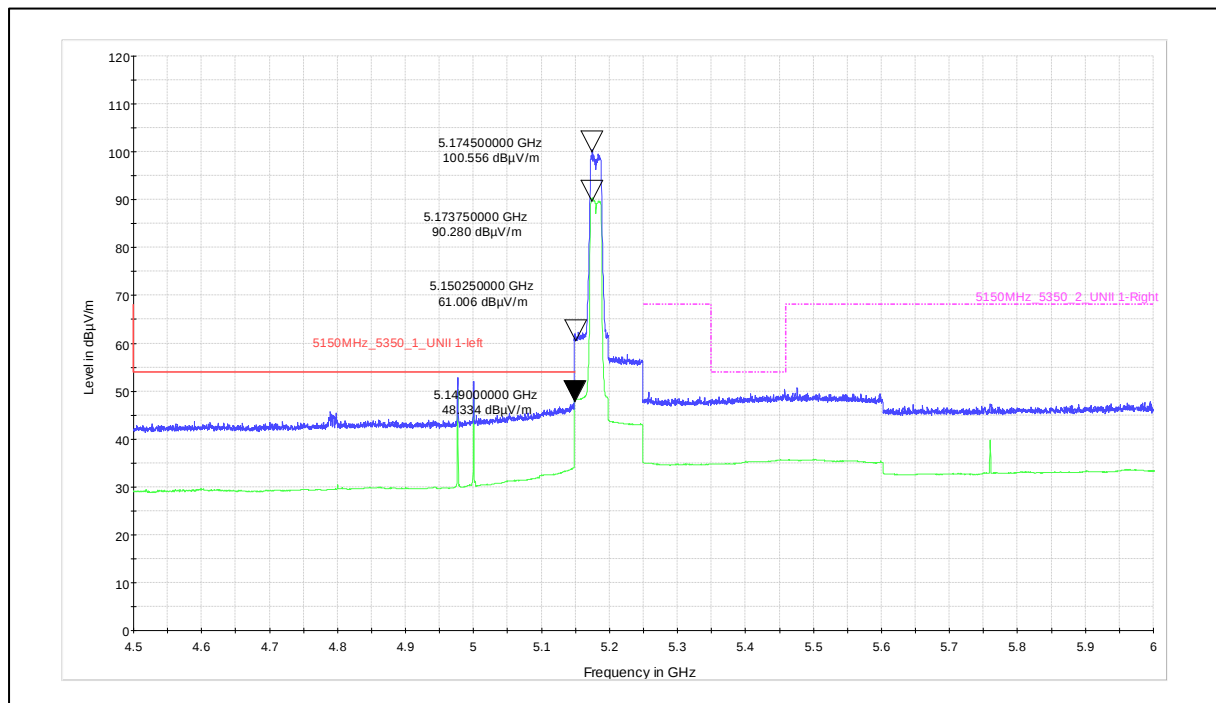
Pk: Peak Detector; Av: Average Detector

Worst case emissions for restricted band of operation



Channel Frequency: 5180MHz

Polarization: Vertical



Channel Frequency: 5180MHz

Polarization: Horizontal

Prüfbericht - Nr.:
Test Report No.:

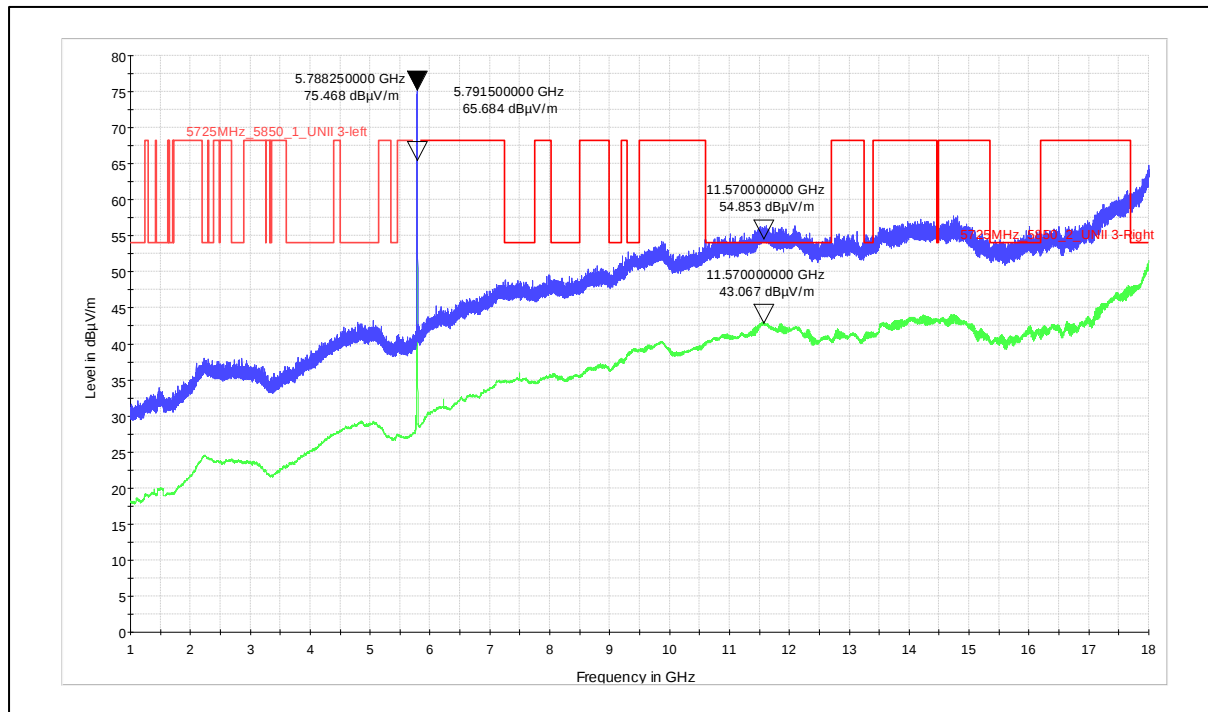
ULR-TC568820300000042F

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Worst case emissions for Spurious radiated emissions above 1GHz

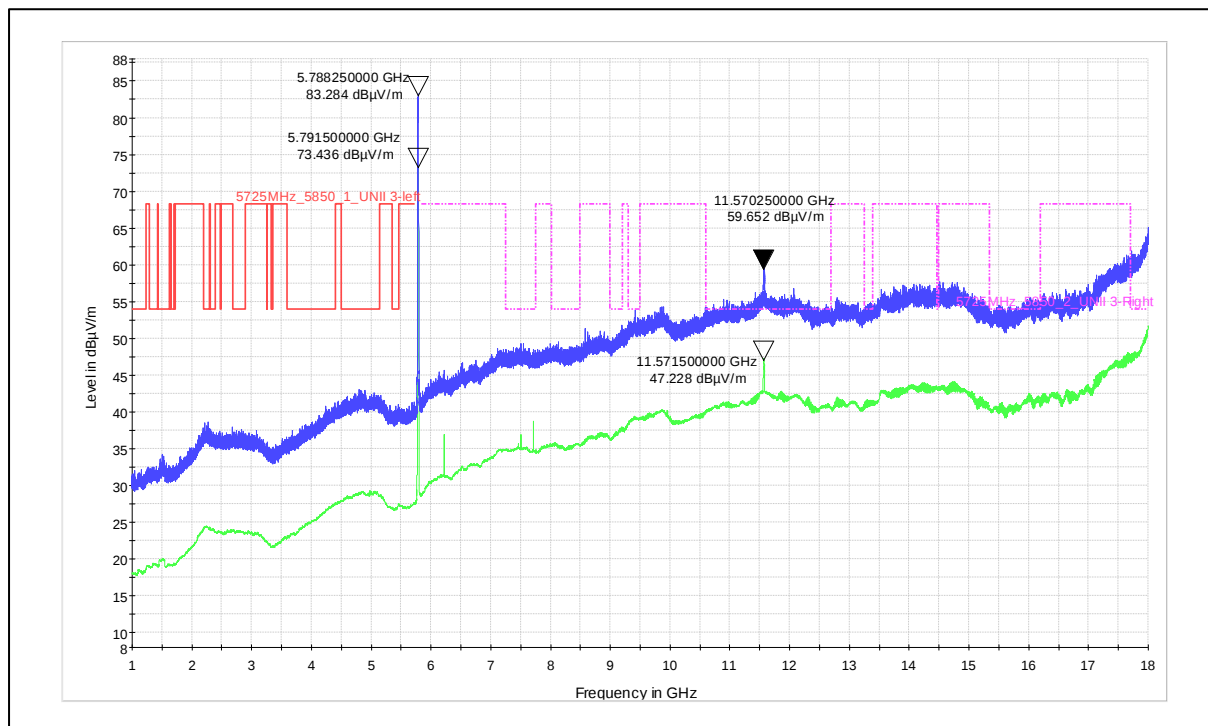
Data rate: 6Mbps

Channel Frequency: 5785MHz



Frequency Range: 1-18GHz

Polarization: Vertical



Frequency Range: 1-18GHz

Polarization: Horizontal