



FCC RADIO TEST REPORT

FCC ID : SLE-WAPN008-1
Equipment : Moxa 2.4/4.9/5 GHz
Brand Name : MOXA Inc.
Model No. : WAPN008-1
Applicant : Moxa Inc.
FL. 4, NO. 135, LANE 235, BAOQIAO RD. XINDIAN DIST.,
NEW TAIPEI CITY, TAIWAN
Manufacturer : Moxa Inc.
FL. 4, NO. 135, LANE 235, BAOQIAO RD. XINDIAN DIST.,
NEW TAIPEI CITY, TAIWAN
FCC Standard : 47 CFR FCC Part 90(Y)

The product was received on Mar. 13, 2019, and testing was started from Jul. 15, 2019 and completed on Aug. 01, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015, ANSI C63.4 and RSS-Gen and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	2.1049 90.209	Emission Bandwidth	PASS	-
3.2	90.1215	Maximum Conducted Output Power	PASS	-
3.3	90.1215	Power Spectral Density	PASS	-
3.4	90.1215	Peak Excursion	PASS	-
3.5	90.210	Transmit Spectrum Mask	PASS	-
3.6	2.1051 90.210	Transmitter Conducted Unwanted Emissions	PASS	-
3.7	2.1053 90.210	Transmitter Radiated Unwanted Emissions	PASS	-
3.8	2.1055 90.213	Frequency Stability	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Jackson Tsai

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bandwidth	Ch. Frequency (MHz)	Channel Number
4940-4990	5MHz	4942.5-4987.5	1-18 [10]
4940-4990	20MHz	4950-4980	1-18 [7]

Band	Mode	BWch (MHz)	Nant
4940-4990GHz	OFDM	5	2TX
4940-4990GHz	OFDM	20	2TX

Note:

- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Antenna Qty.
1	MOXA	ANT-WDB-ANM-0306	Dipole	N-type	6.3	2
2	MOXA	ANT-WDB-ARM-0202	Dipole	Reverse SMA	1.8	2
3	MOXA	ANT-WDB-ARM-02	Dipole	Reverse SMA	0.81	2
4	MOXA	ANT-WDB-ANM-0502	Dipole	N-type	2	2

(2TX/2RX) MIMO mode is the worst case .

1.1.3 Type of EUT

Operational Condition			
EUT Power Type	From DC Source		
Power level	☐ High power device	☒ Low power device	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:	...	
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:	...	
☐	Other:		

Model Name	Test sample S/N number	EP sample S/N number	Remark
WAPN008-1	TAFHB1071789	TAGHB1104390	module

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
OFDM	0.861	-	-	-

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 90(Y)
- ♦ ANSI C63.26-2015
- ♦ KDB 971168 D01 v03r01
- ♦ KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Barry	23.3~24.2°C / 56.1~59.3%	15/Jul/2019~01/Aug/2019
Radiated Emission	03CH02-HY	Patrick	23.5~24.8°C / 53.5~55.9%	19/Jul/2019

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Condition Item	Abbreviation/Remark	Remark
UE Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	24V

2.2 The Worst Case Power Setting Parameter

Test Software	-
---------------	---

Mode	Power Setting
4.94-4.99GHz_OFDM_5MHz_Nss2_2TX	-
4942.5MHz	9
4967.5MHz	9
4987.5MHz	9
4.94-4.99GHz_OFDM_20MHz_Nss2_2TX	-
4950MHz	12
4965MHz	12
4980MHz	12

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth, Maximum Conducted Output Power, Power Spectral Density, Peak Excursion, Transmit Spectrum Mask Transmitter Conducted Unwanted Emissions, Frequency Stability
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	Normal Link		
1	DC Mode		
Operating Mode > 1GHz	Normal Link		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

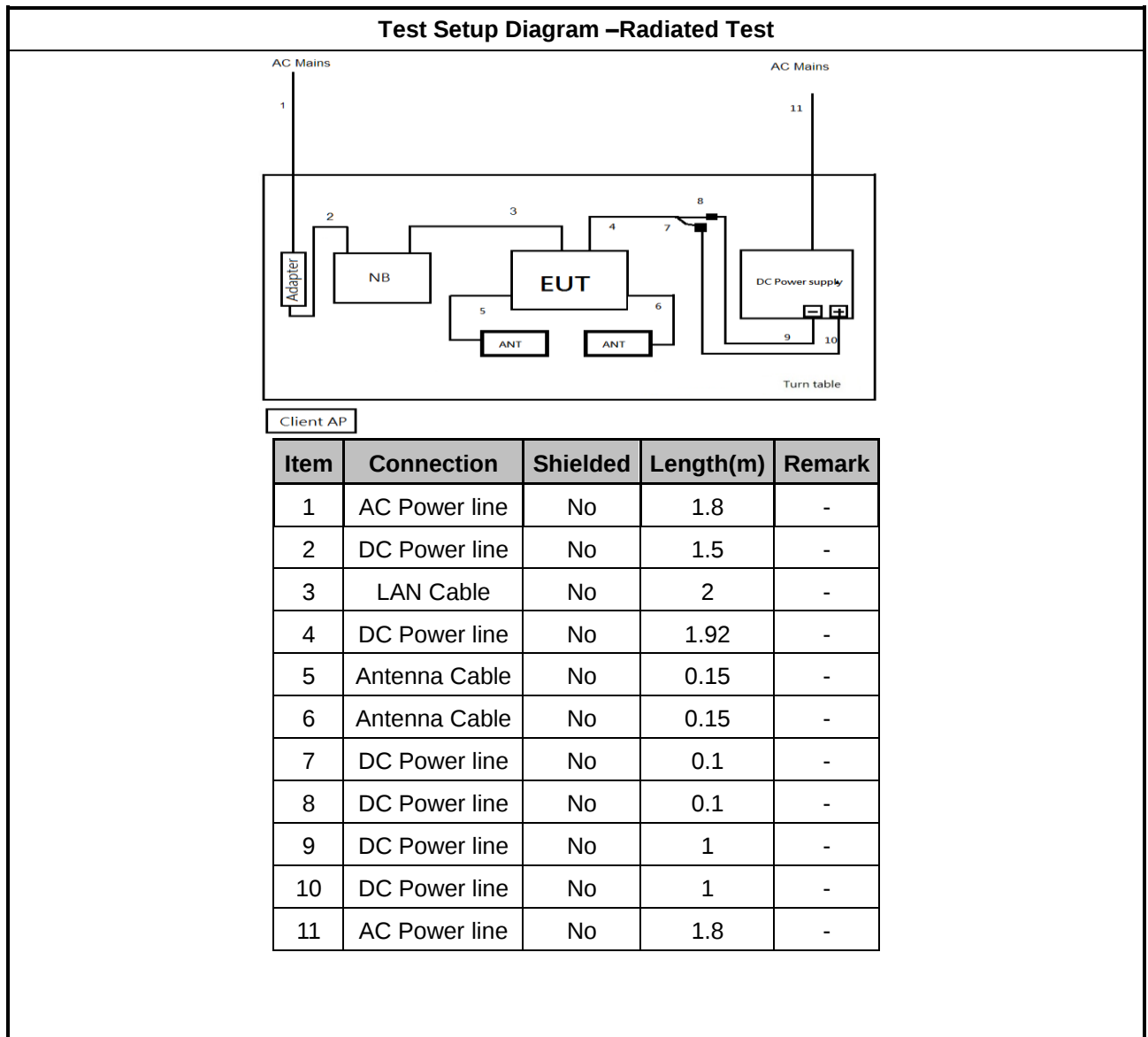
2.4 Support Equipment

Support Equipment - RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	R33002 / DOC
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC
3	DC Power Supply	GW	GPS-3030DD	-

Support Equipment - Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	DC Power Supply	GW	GPS-3030DD	-
2	Notebook	DELL	E4300	-
3	AC Adapter	DELL	LA90PM111	-
4	Client AP	MOXA	AWK-4121A	-
5	Switching Power Supply	GW	GPS-3030DD	-

Note.Support equipment No.4 was provided by customer.

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit
Information only

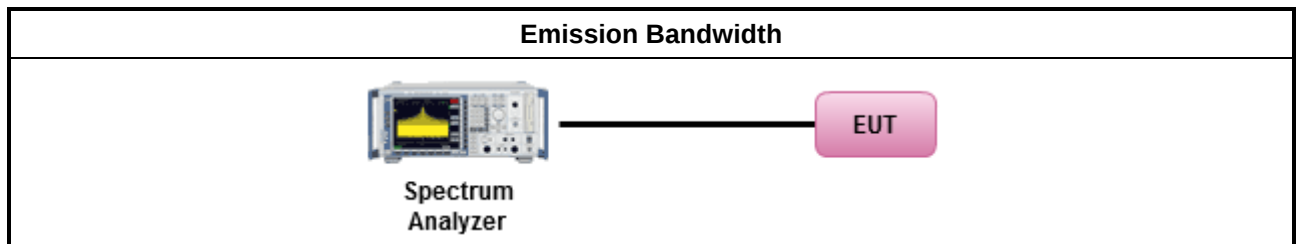
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
▪ For Occupied Bandwidth	
☐	Refer as ANSI C63.26 clause 5.4.3 for occupied bandwidth measurement.
☒	Refer as ANSI C63.26 clause 5.4.4 for occupied bandwidth measurement.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power		
Channel Bandwidth (MHz)	Low Power Device (dBm)	High Power Device (dBm)
1	7	20
5	14	27
10	17	30
15	18.8	31.8
20	20	33

Antenna Gain vs Maximum Conducted Output Power	
Low Power Device	
General	If $G_{TX} > 9$ dBi, then $P_{Out} = P - (G_{TX} - 9)$ dBm
High Power Device	
General	If $G_{TX} > 9$ dBi, then $P_{Out} = P - (G_{TX} - 9)$ dBm
point-to-point or point-to-multipoint	If $G_{TX} > 26$ dBi, then $P_{Out} = P - (G_{TX} - 26)$ dBm
P_{Out} = reduction maximum conducted output power limit in dBm, P = original w/o reduction maximum conducted output power limit in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

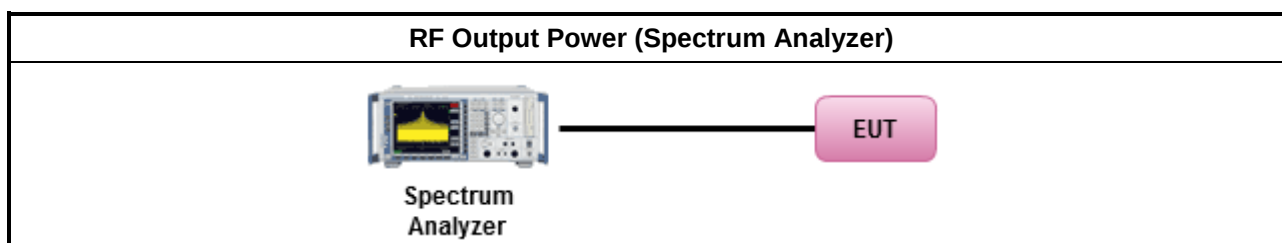
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For Power	
☐	Refer as ANSI C63.26 clause 5.2.4.2 for average power with an average power meter.
☒	Refer as ANSI C63.26 clause 5.2.4.4 for average power of a broadband signal

3.2.4 Test Setup



3.2.5 Test Result of Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

Power Spectral Density	
Low Power Device (dBm/MHz)	High Power Device (dBm/MHz)
8	21

Antenna Gain vs Power Spectral Density	
Low Power Device	
General	If $G_{TX} > 9$ dBi, then $PSD_{Out} = PSD - (G_{TX} - 9)$ dBm
High Power Device	
General	If $G_{TX} > 9$ dBi, then $PSD_{Out} = PSD - (G_{TX} - 9)$ dBm
point-to-point or point-to-multipoint	If $G_{TX} > 26$ dBi, then $PSD_{Out} = PSD - (G_{TX} - 26)$ dBm
PSD_{Out} = reduction peak power spectral density limit in dBm, PSD = original w/o reduction power spectral density limit in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

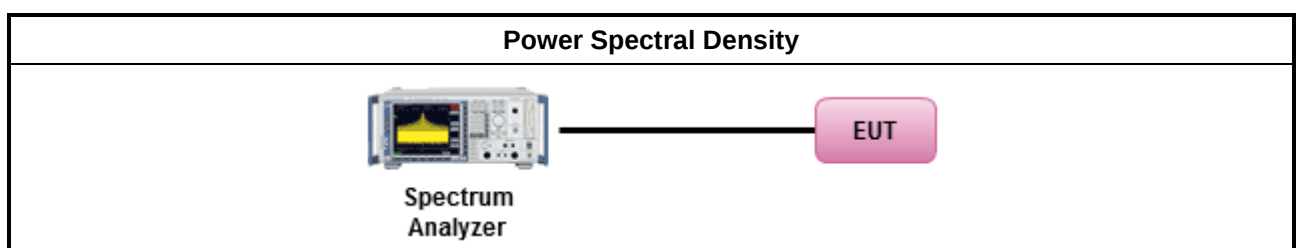
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
For Power Spectral Density	
☒	Refer as ANSI C63.26 clause 5.2.4.5 for measuring the average power spectral density.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Peak Excursion

3.4.1 Peak Excursion Limit

Peak Excursion (dB)
13

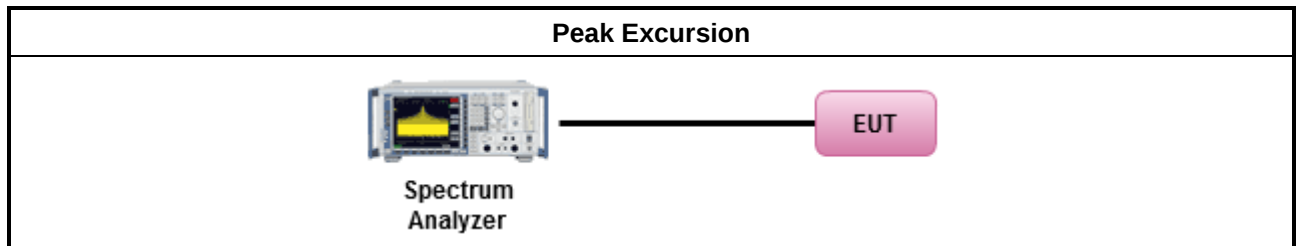
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
For Peak-to-average power ratio
Refer as ANSI C63.26 clause 5.2.3.4 for peak power in a broadband noise-like signal using CCDF.

3.4.4 Test Setup



3.4.5 Test Result of Peak Excursion

Refer as Appendix D

3.5 Transmit Spectrum Mask

3.5.1 Transmit Spectrum Mask Limit

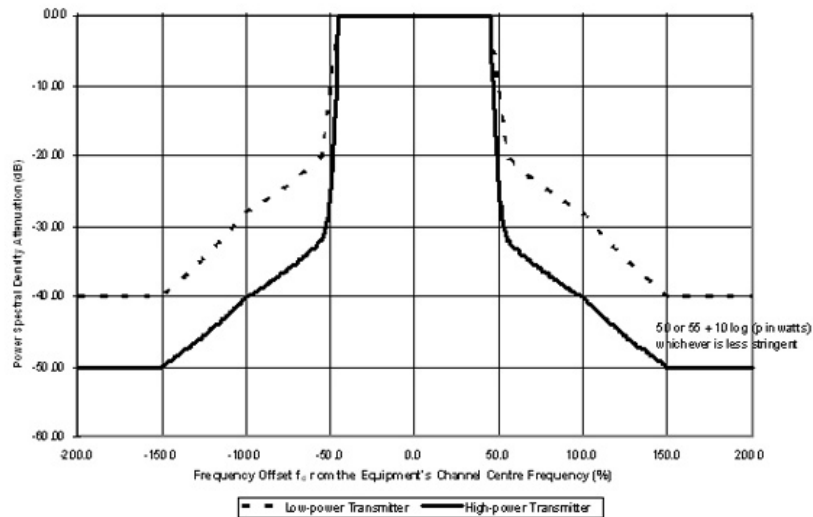
Offset Frequency f_d (% of the Equipment's Channel Bandwidth)	Minimum Attenuation (dB)	
	Low Power Transmitter	High Power Transmitter
$0 < f_d \leq 45$	0	0
$45 < f_d \leq 50$	$219 \log (f_d/45)$	$568 \log (f_d/45)$
$50 < f_d \leq 55$	$10 + 242 \log (f_d/50)$	$26 + 145 \log (f_d/50)$
$55 < f_d \leq 100$	$20 + 31 \log (f_d/55)$	$32 + 31 \log (f_d/55)$
$100 < f_d \leq 150$	$28 + 68 \log (f_d/100)$	$40 + 57 \log (f_d/100)$
$f_d > 150$	40	whichever is less stringent 50 or $55 + 10 \log P [-25\text{dBm}]$

Where: f_d (%) = $((f - f_c)/\text{channel bandwidth}) \times 100$;

P: transmitter's output power (in watts)

The 0 dB reference level in the unwanted emission mask is the maximum in-band power spectral density measured in terms of average power in the equipment's channel bandwidth, using a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, and a video bandwidth of 30 kHz. The unwanted power spectral density emissions are also measured using the same resolution and video bandwidths used in measuring the reference in-band power spectral density.

Figure 1: Unwanted Emission Mask for Low- and High-power Transmitters



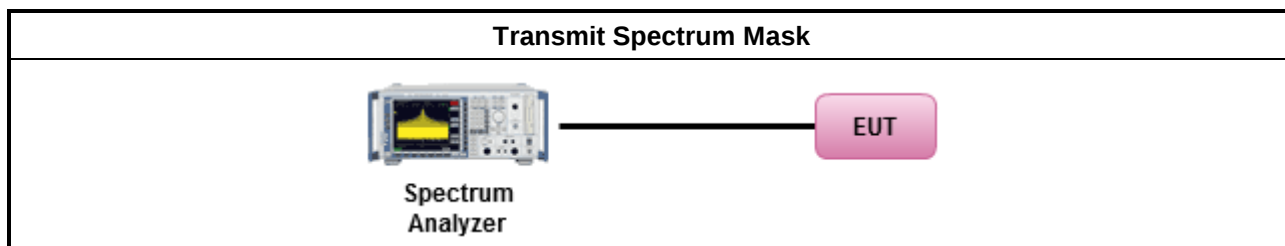
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
For Conducted Emissions Mask
Refer as ANSI C63.26-2015, clause 5.7.3 for conducted measurement.

3.5.4 Test Setup



3.5.5 Test Result of Transmit Spectrum Mask

Refer as Appendix E

3.6 Transmitter Conducted Unwanted Emissions

3.6.1 Transmitter Conducted Unwanted Emissions Limit

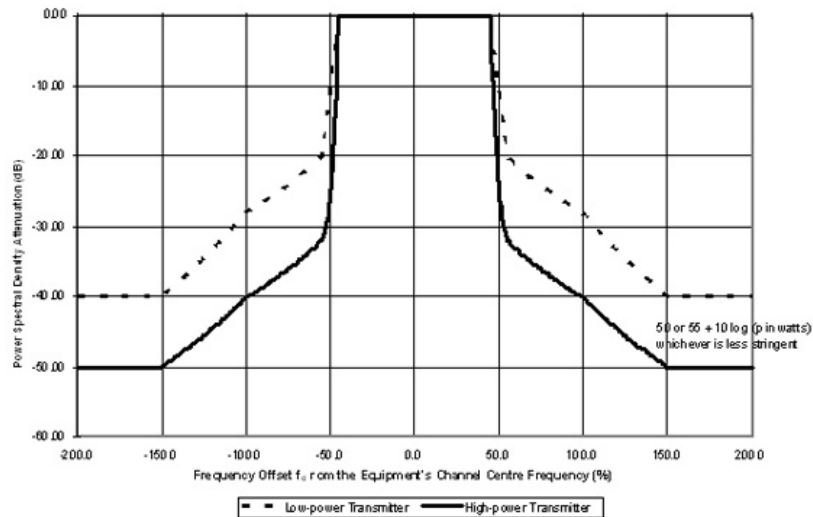
Offset Frequency f_d (% of the Equipment's Channel Bandwidth)	Minimum Attenuation (dB)	
	Low Power Transmitter	High Power Transmitter
$0 < f_d \leq 45$	0	0
$45 < f_d \leq 50$	$219 \log (f_d/45)$	$568 \log (f_d/45)$
$50 < f_d \leq 55$	$10 + 242 \log (f_d/50)$	$26 + 145 \log (f_d/50)$
$55 < f_d \leq 100$	$20 + 31 \log (f_d/55)$	$32 + 31 \log (f_d/55)$
$100 < f_d \leq 150$	$28 + 68 \log (f_d/100)$	$40 + 57 \log (f_d/100)$
$f_d > 150$	40	whichever is less stringent 50 or $55 + 10 \log P [-25\text{dBm}]$

Where: f_d (%) = $((f - f_c)/\text{channel bandwidth}) \times 100$;

p: transmitter's output power (in watts)

The 0 dB reference level in the unwanted emission mask is the maximum in-band power spectral density measured in terms of average power in the equipment's channel bandwidth, using a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, and a video bandwidth of 30 kHz. The unwanted power spectral density emissions are also measured using the same resolution and video bandwidths used in measuring the reference in-band power spectral density.

Figure 1: Unwanted Emission Mask for Low- and High-power Transmitters



3.6.2 Measuring Instruments

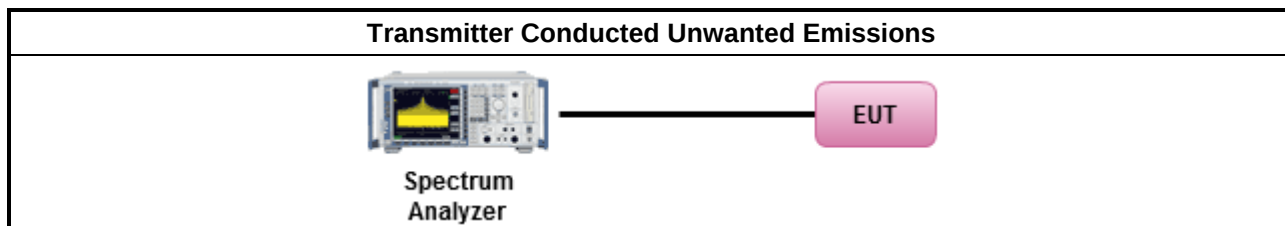
Refer test equipment and calibration data list in test report clause 4.

3.6.3 Test Procedures

- For Conducted Unwanted Emissions

Refer as ANSI C63.26-2015, clause 5.7.4 for conducted measurement.

3.6.4 Test Setup



3.6.5 Test Result of Transmitter Conducted Unwanted Emissions

Refer as Appendix F

3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions Limit

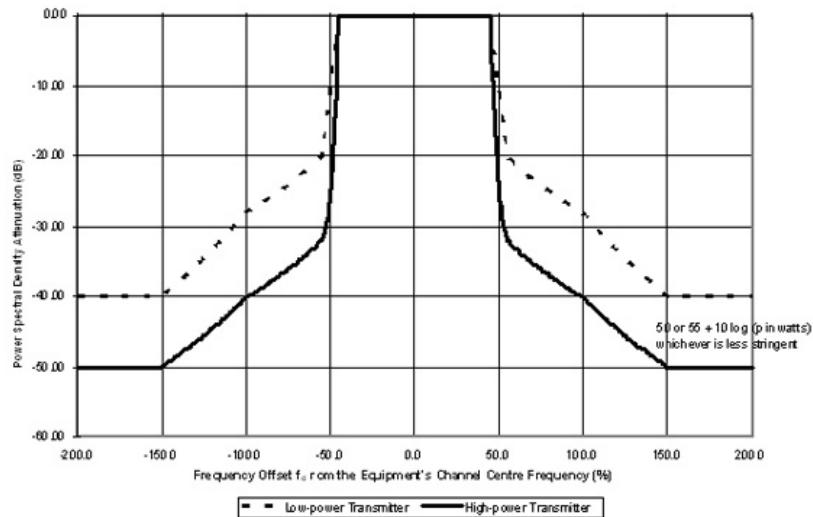
Offset Frequency f_d (% of the Equipment's Channel Bandwidth)	Minimum Attenuation (dB)	
	Low Power Transmitter	High Power Transmitter
$0 < f_d \leq 45$	0	0
$45 < f_d \leq 50$	$219 \log (f_d/45)$	$568 \log (f_d/45)$
$50 < f_d \leq 55$	$10 + 242 \log (f_d/50)$	$26 + 145 \log (f_d/50)$
$55 < f_d \leq 100$	$20 + 31 \log (f_d/55)$	$32 + 31 \log (f_d/55)$
$100 < f_d \leq 150$	$28 + 68 \log (f_d/100)$	$40 + 57 \log (f_d/100)$
$f_d > 150$	40	whichever is less stringent 50 or $55 + 10 \log P$ [-25dBm]

Where: f_d (%) = $((f - f_c)/\text{channel bandwidth}) \times 100$;

P: transmitter's output power (in watts)

The 0 dB reference level in the unwanted emission mask is the maximum in-band power spectral density measured in terms of average power in the equipment's channel bandwidth, using a resolution bandwidth of as close as possible to, without being less than 1% of the occupied bandwidth, and a video bandwidth of 30 kHz. The unwanted power spectral density emissions are also measured using the same resolution and video bandwidths used in measuring the reference in-band power spectral density.

Figure 1: Unwanted Emission Mask for Low- and High-power Transmitters



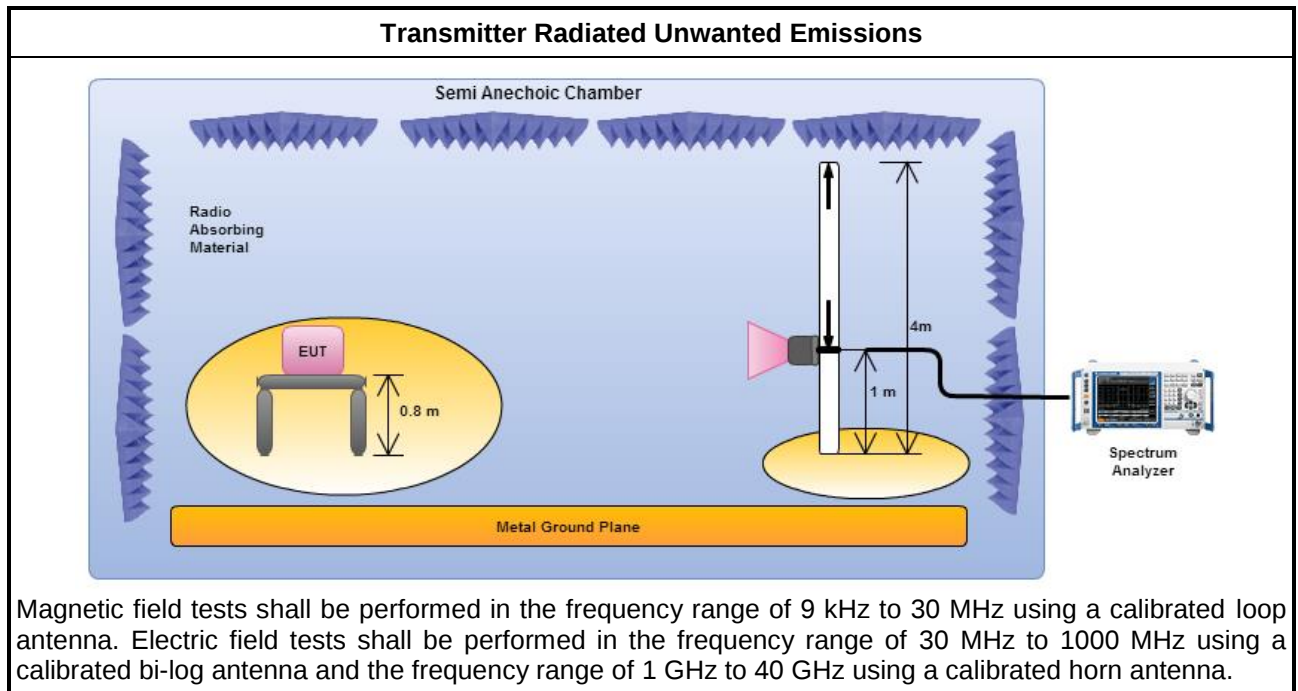
3.7.2 Measuring Instruments

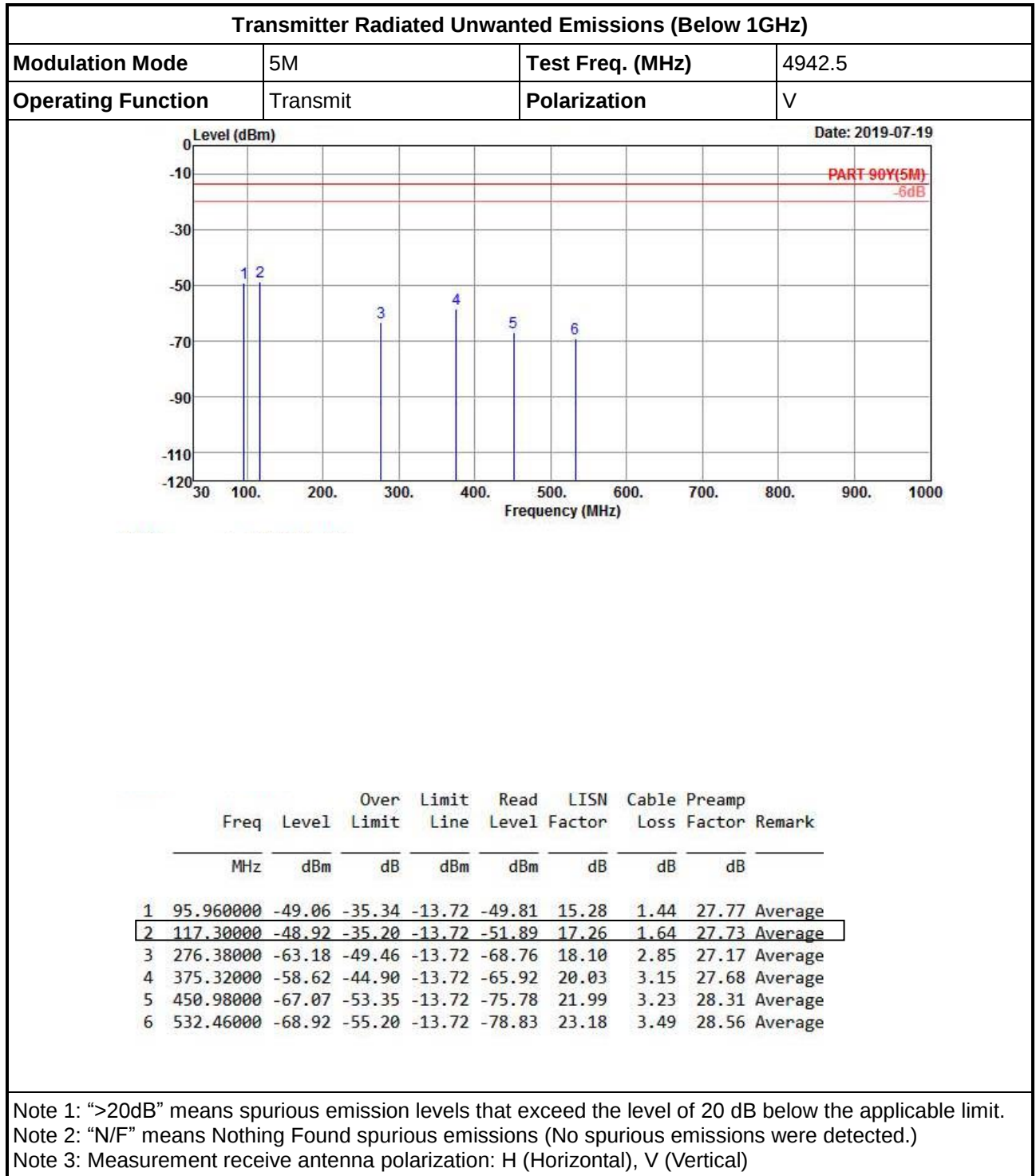
Refer a test equipment and calibration data table in this test report.

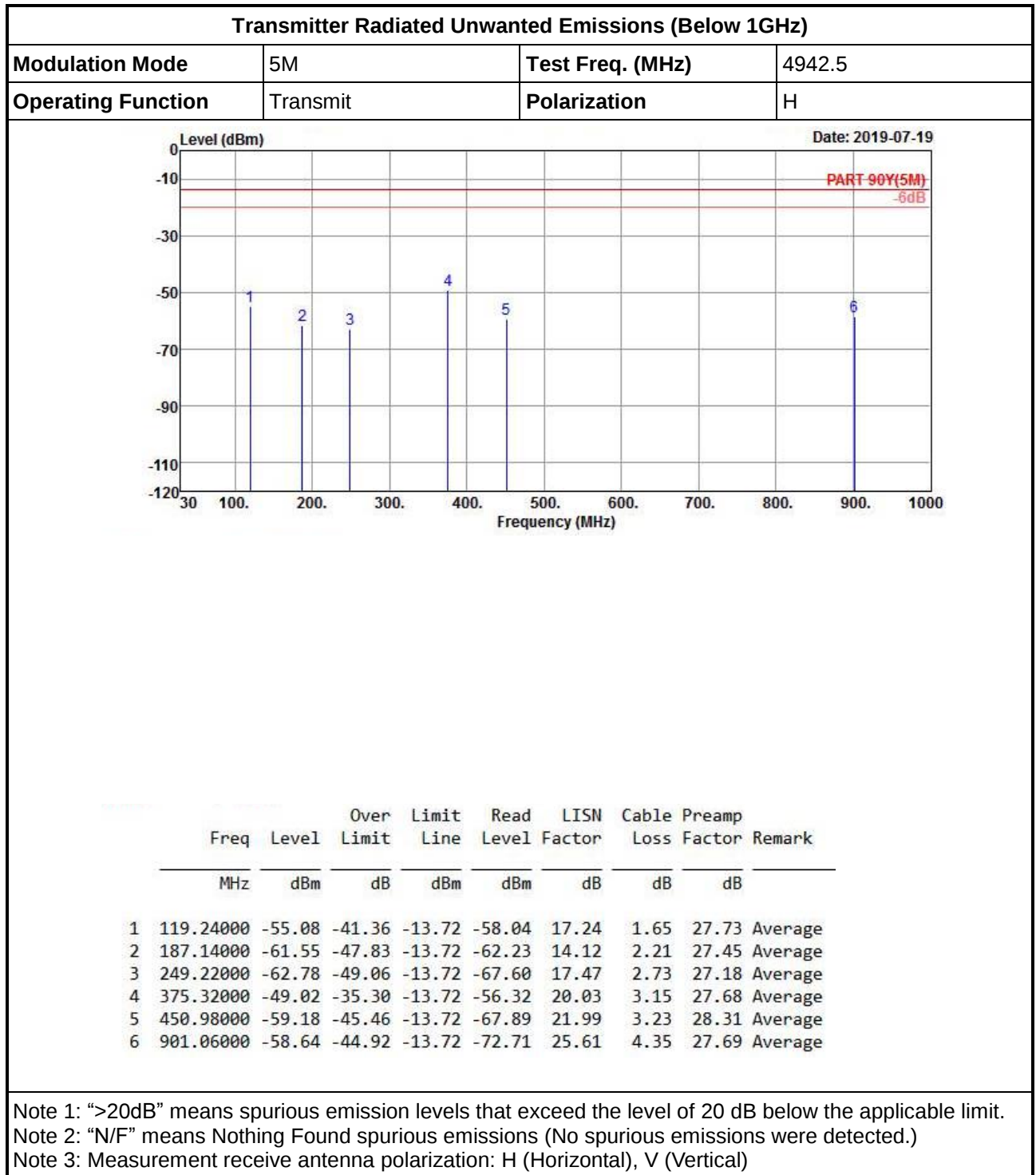
3.7.3 Test Procedures

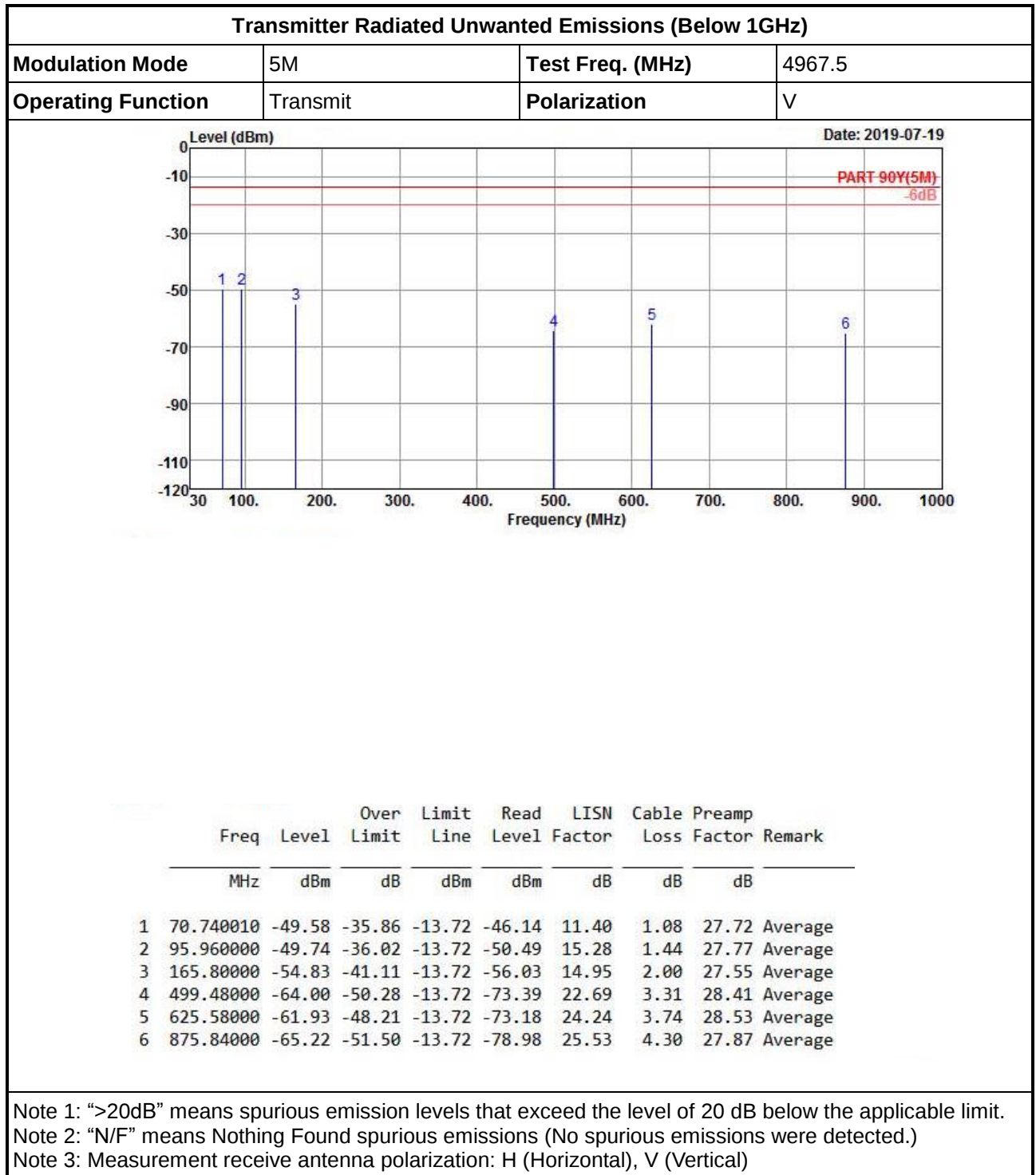
Test Method
Refer as ANSI C63.26-2015, clause 5.5.3 for radiated measurement.

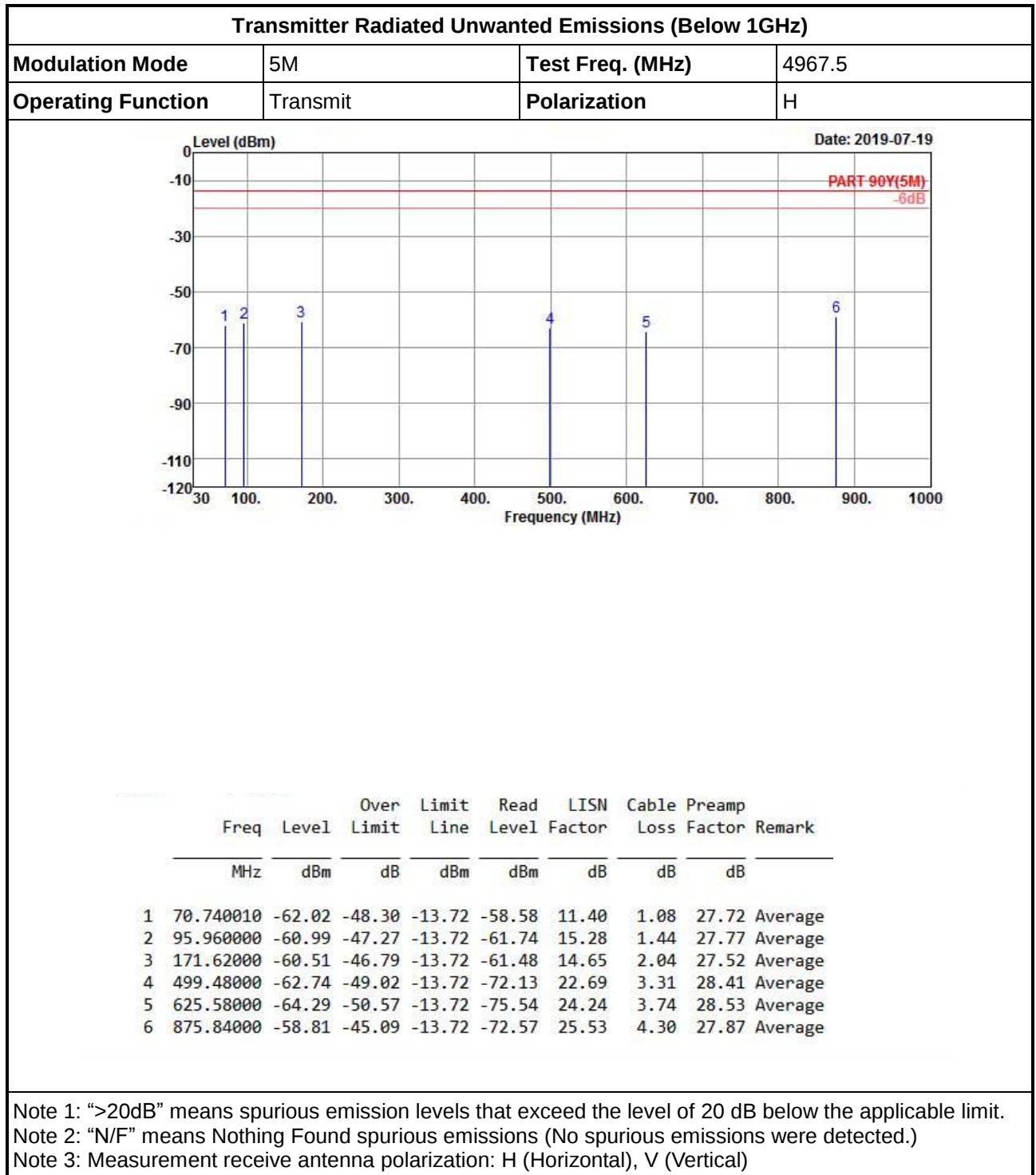
3.7.4 Test Setup

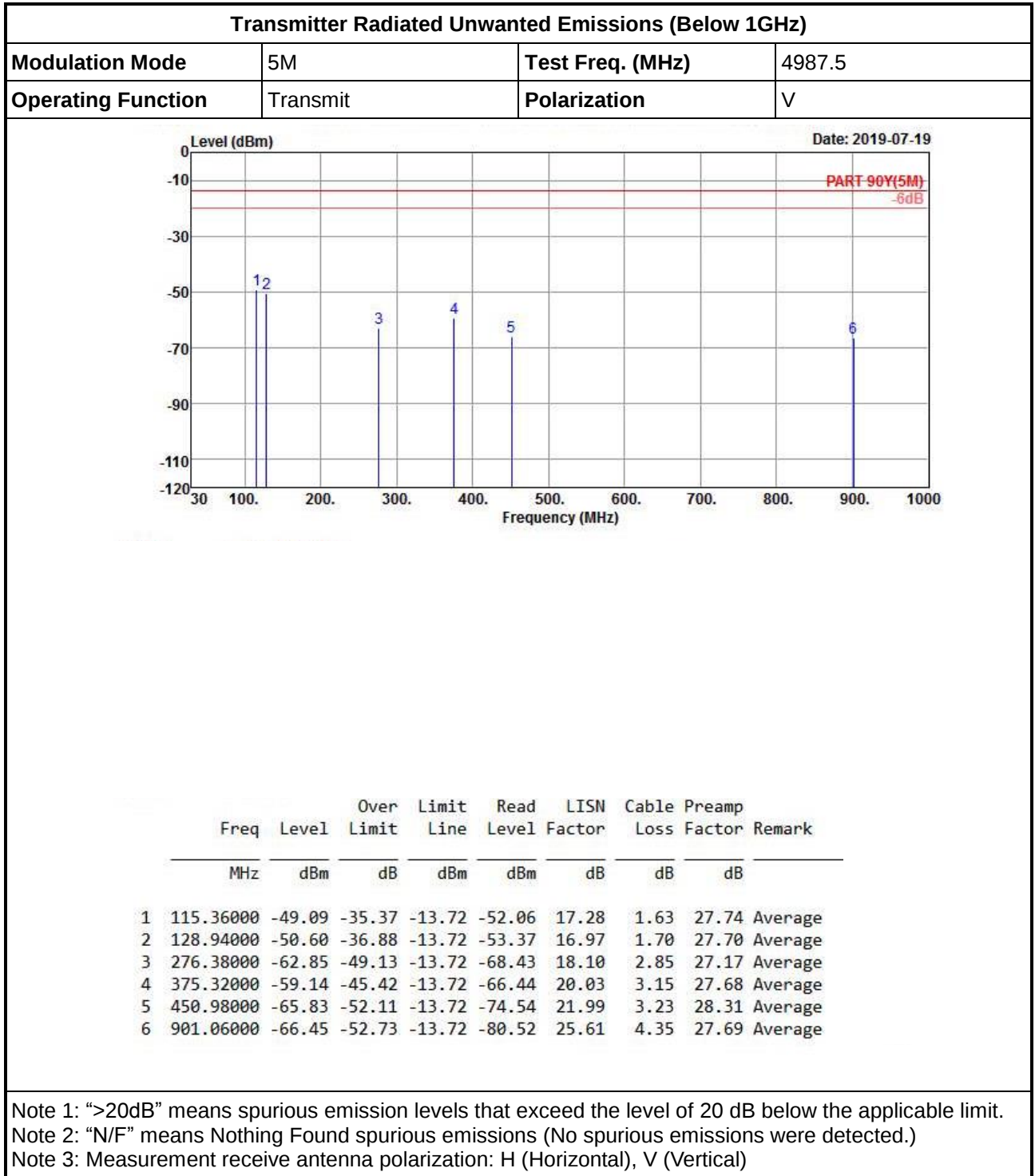


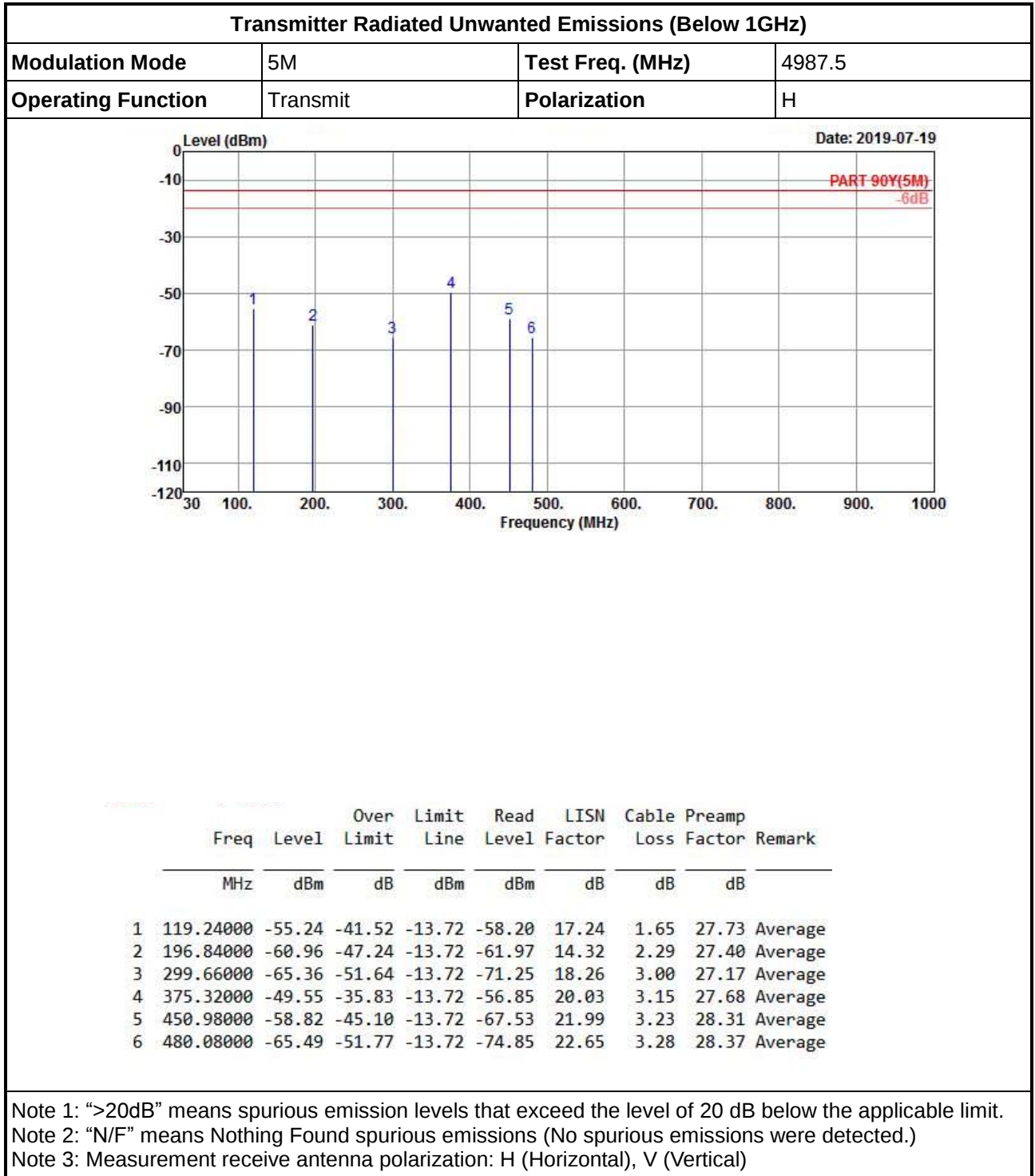
3.7.5 Test Result of Transmitter Radiated Unwanted Emissions (Below 1GHz)


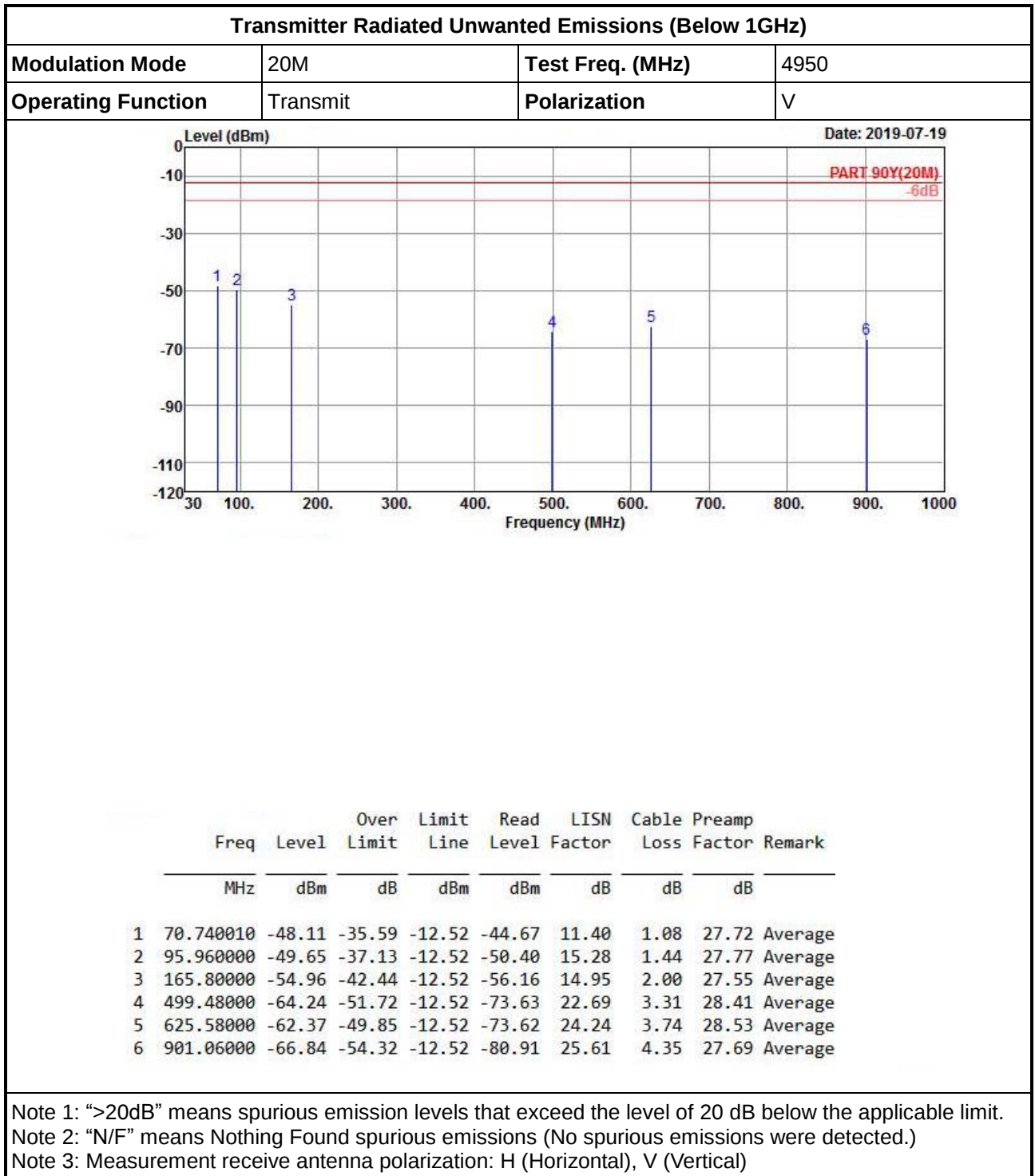


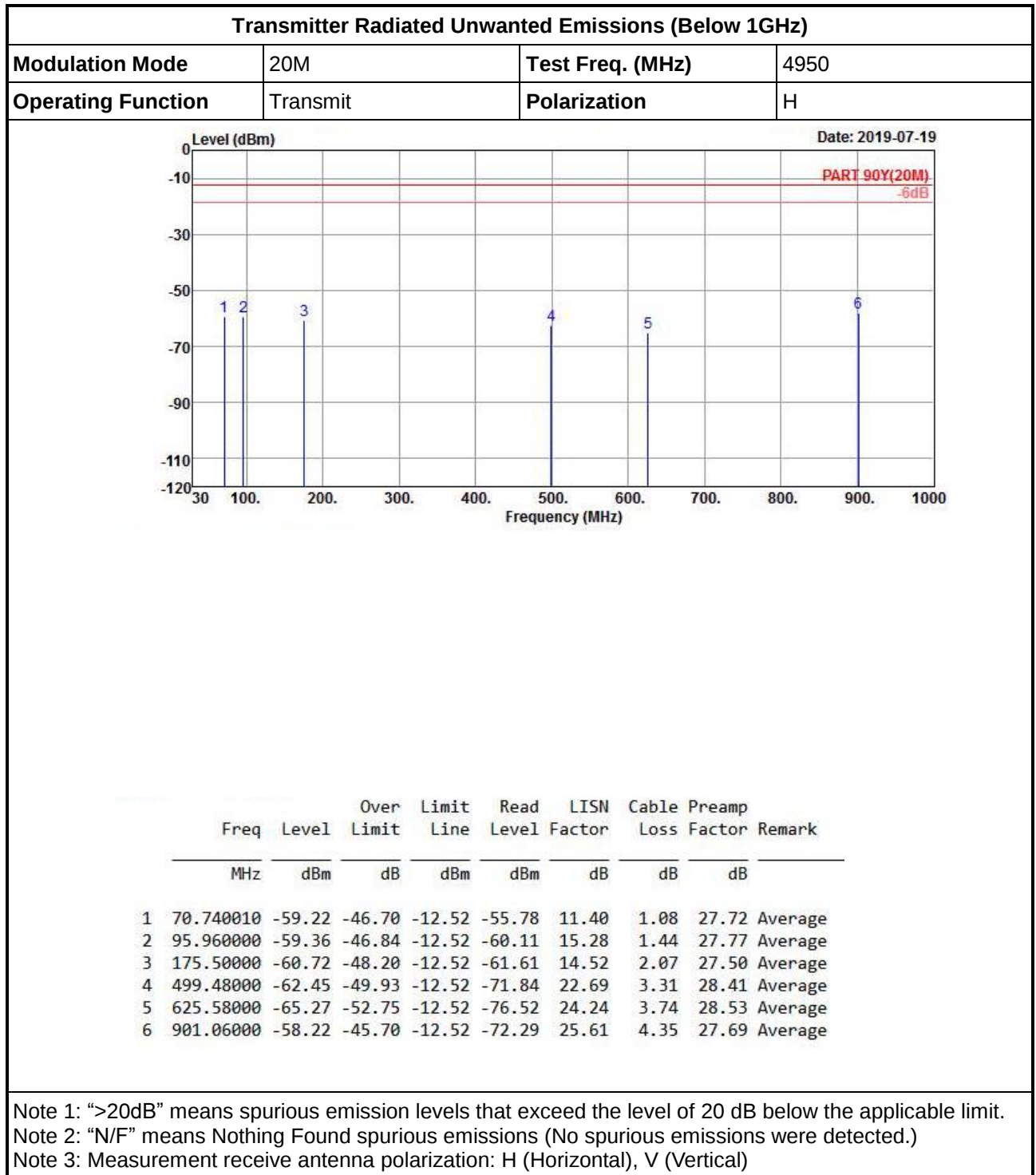


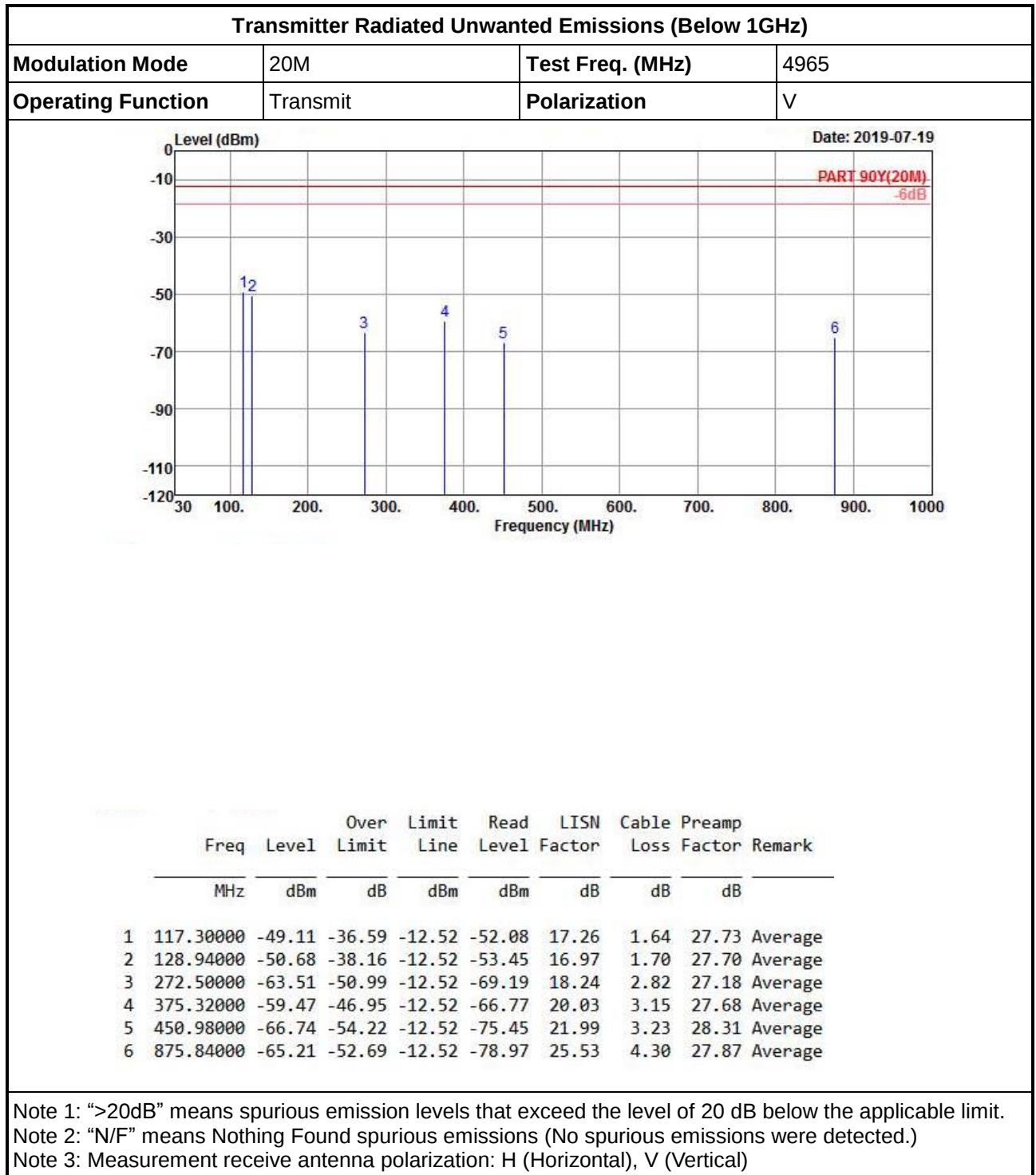


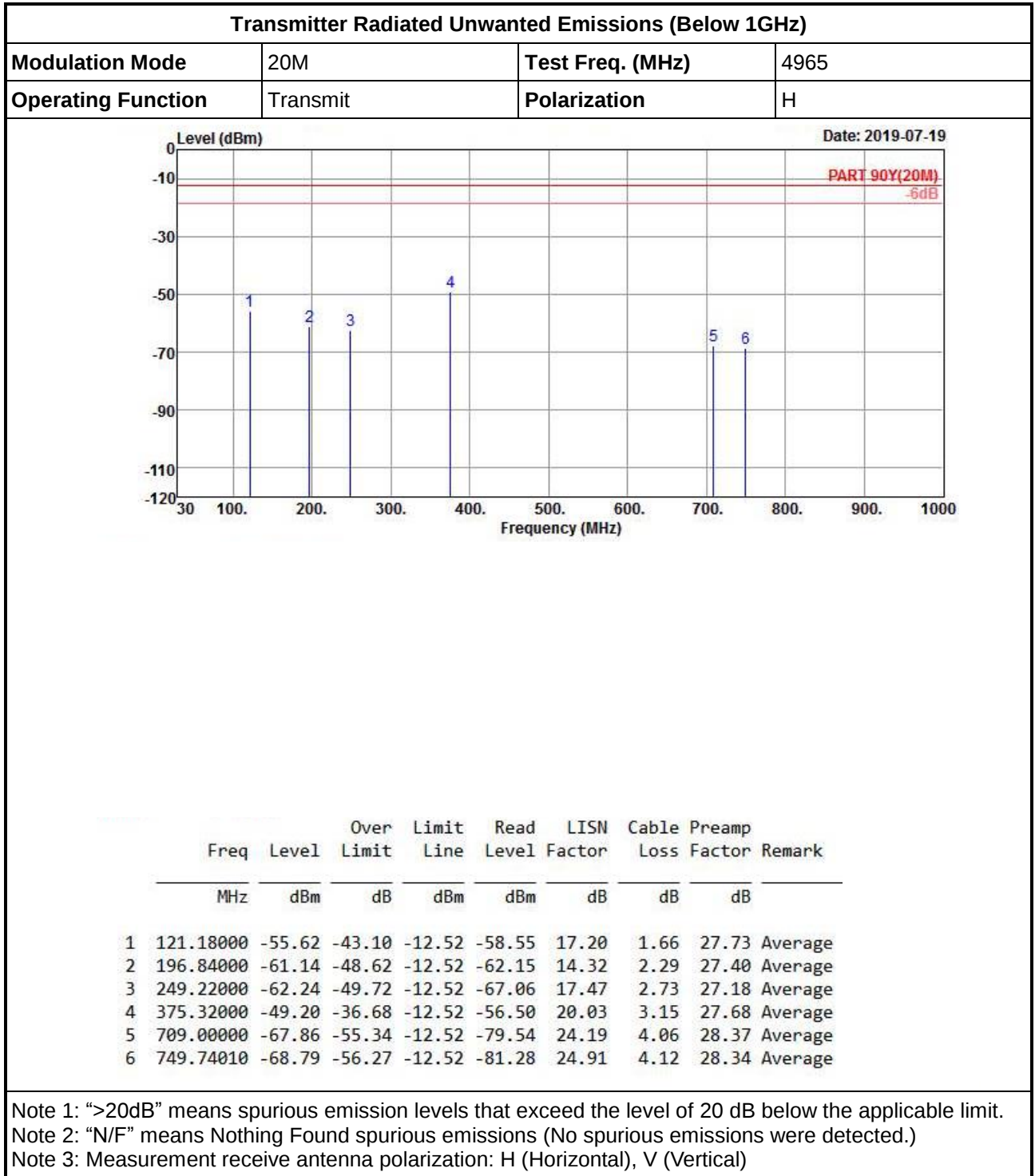


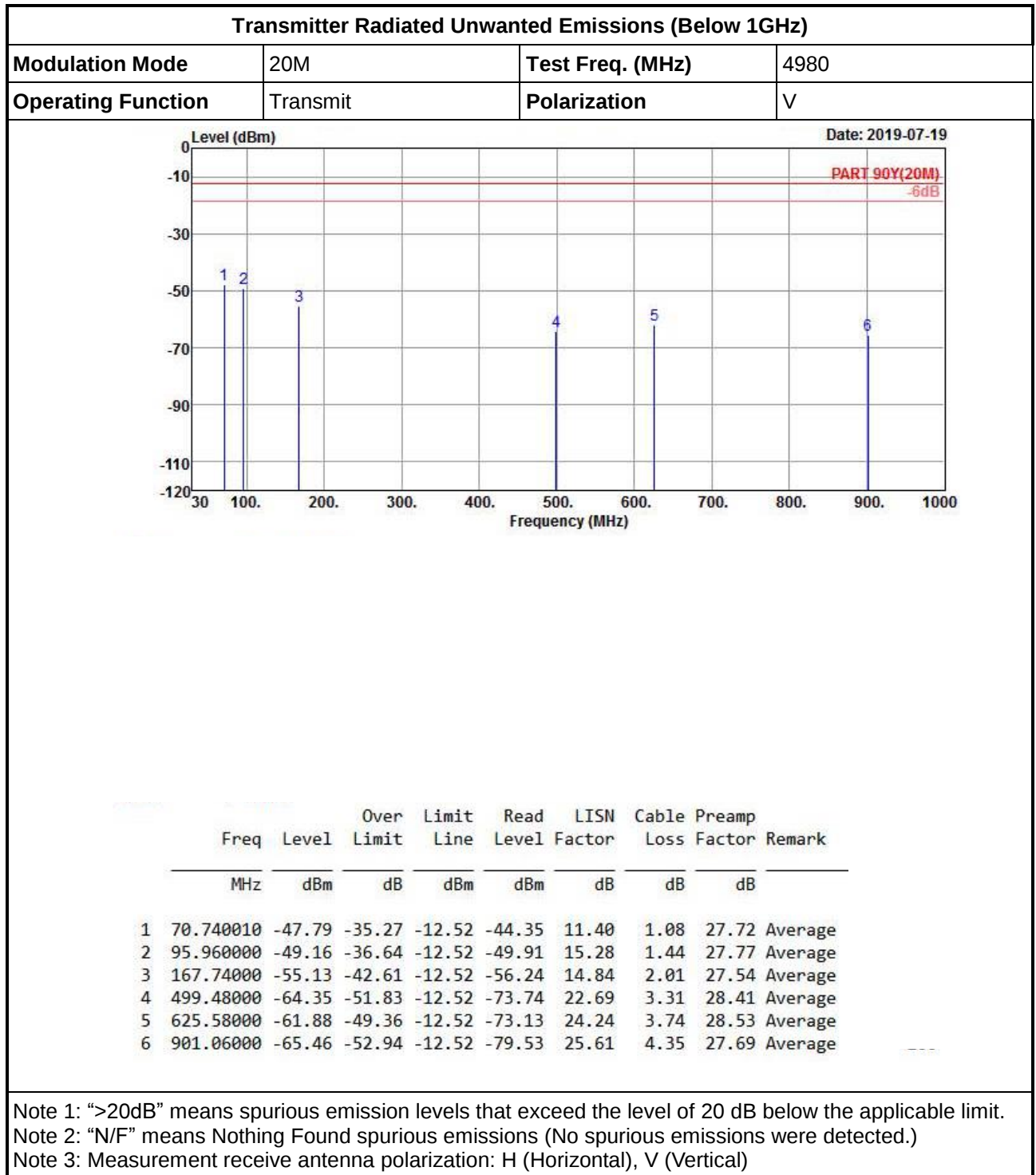


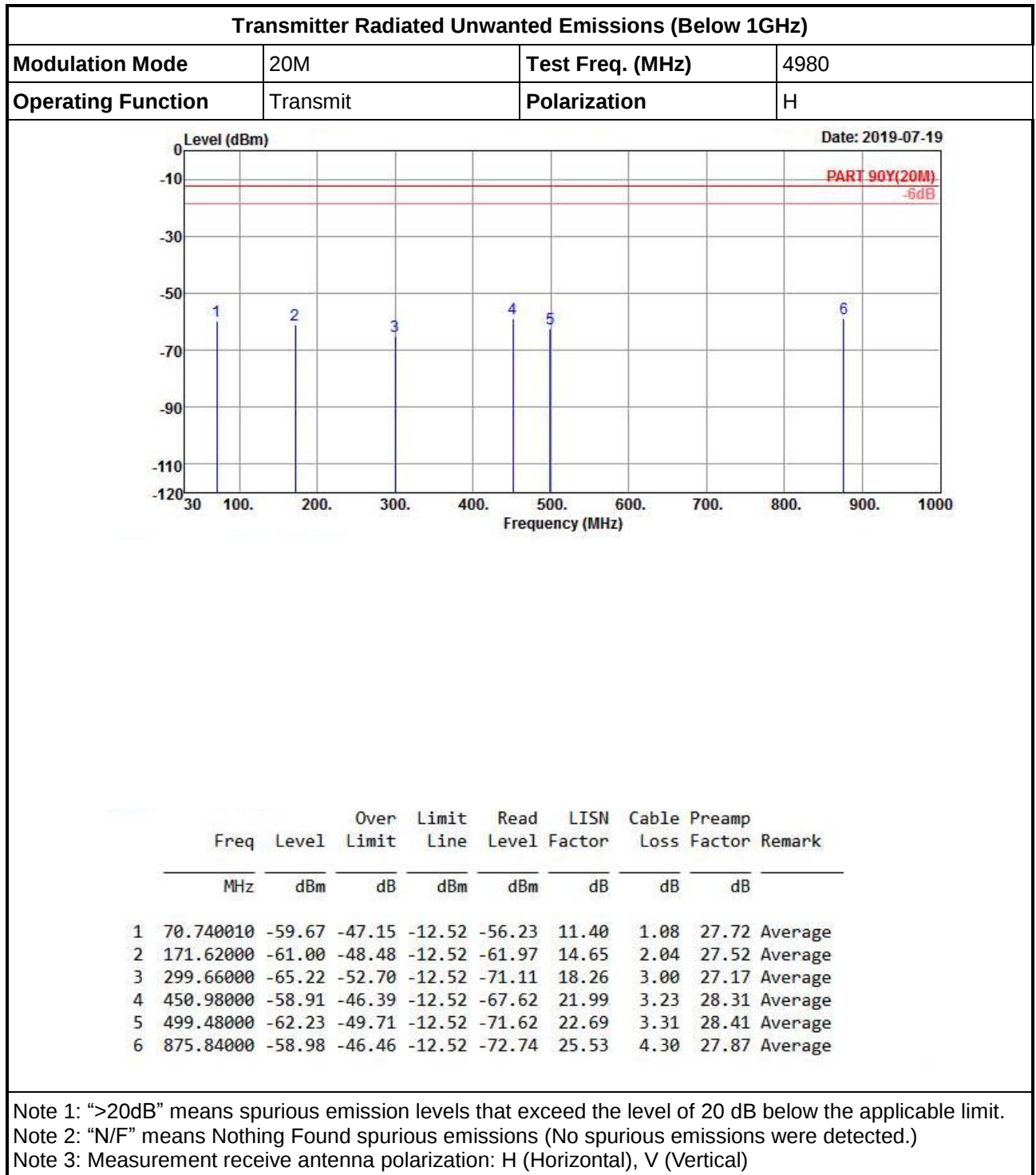


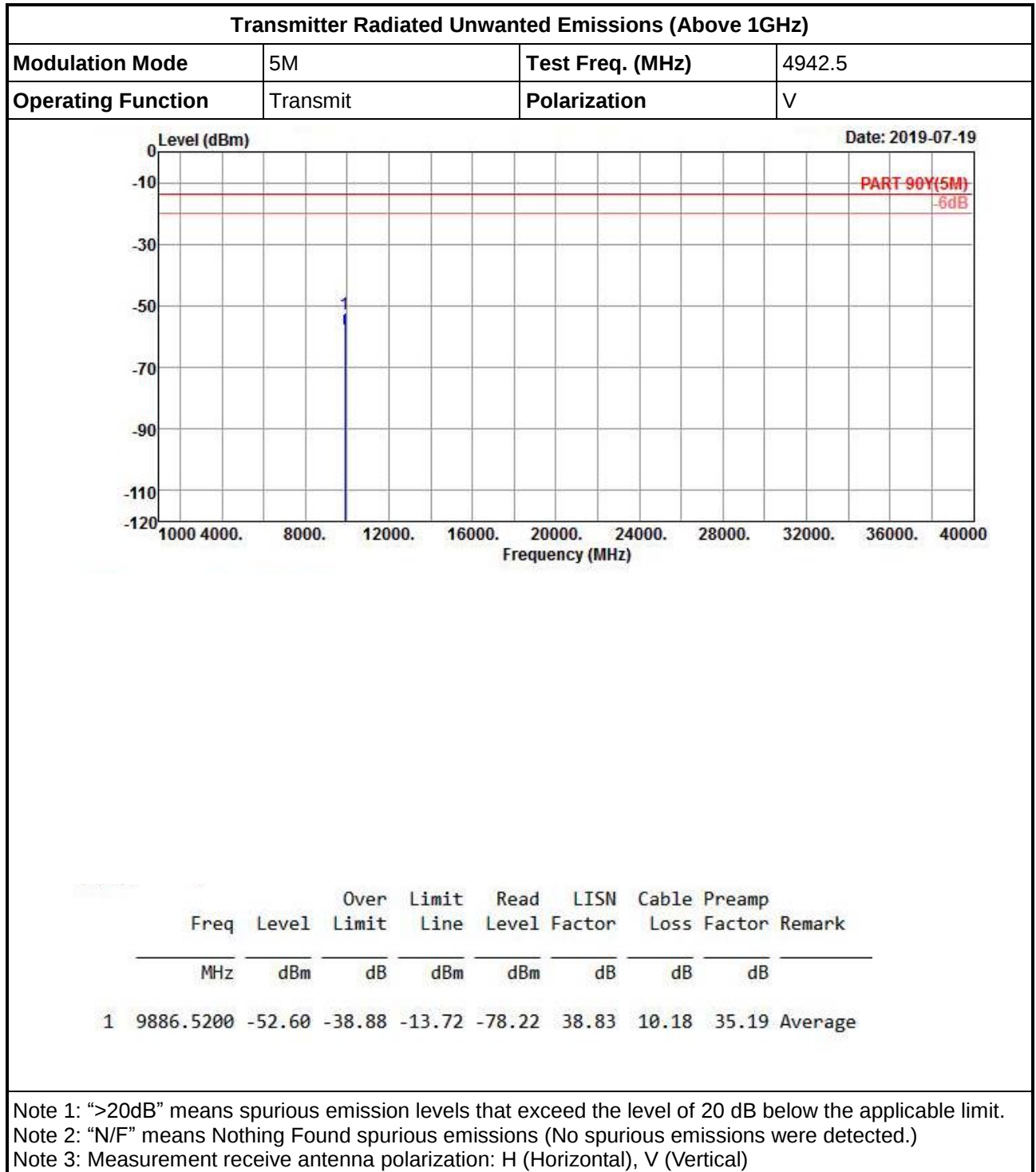


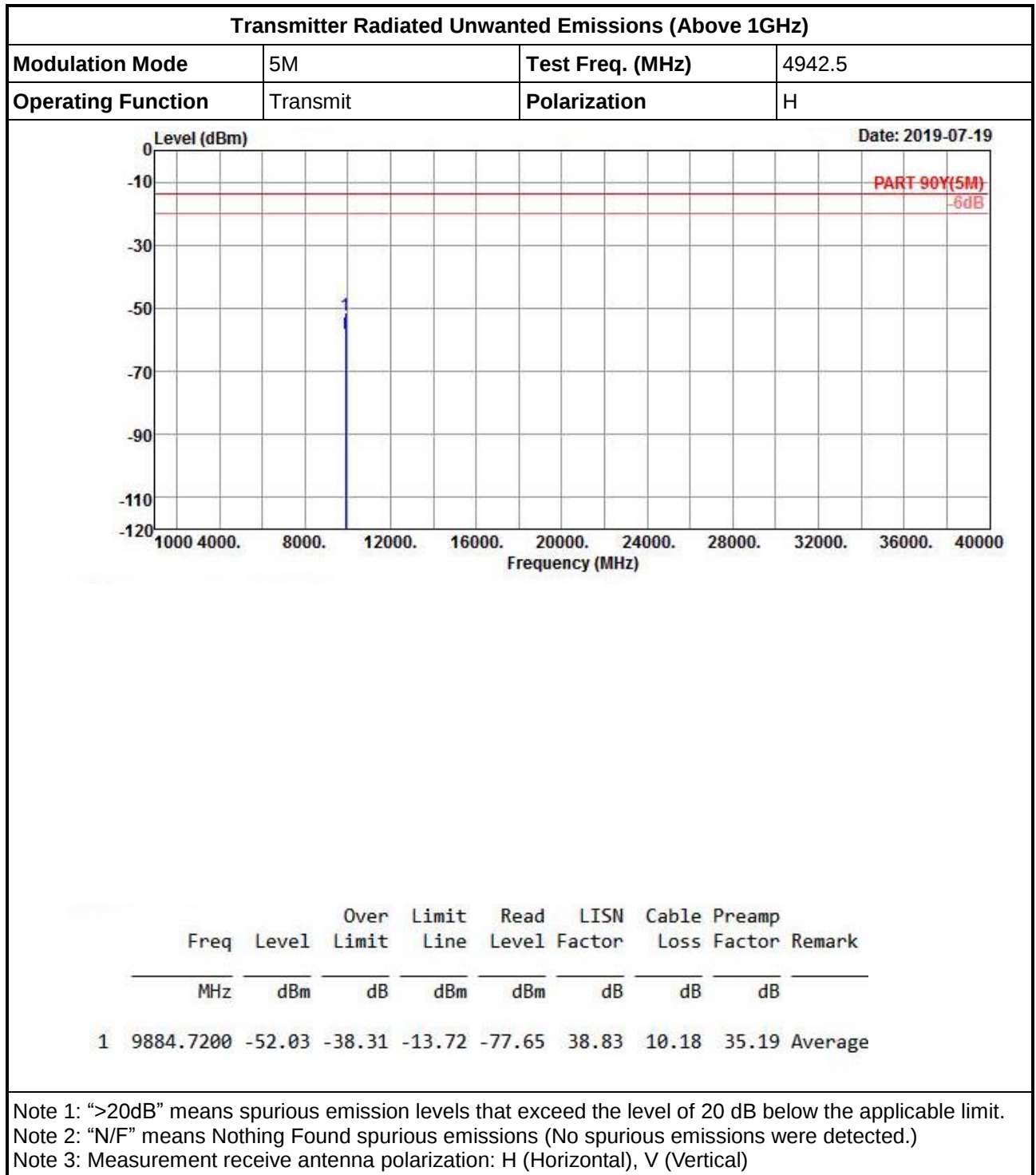


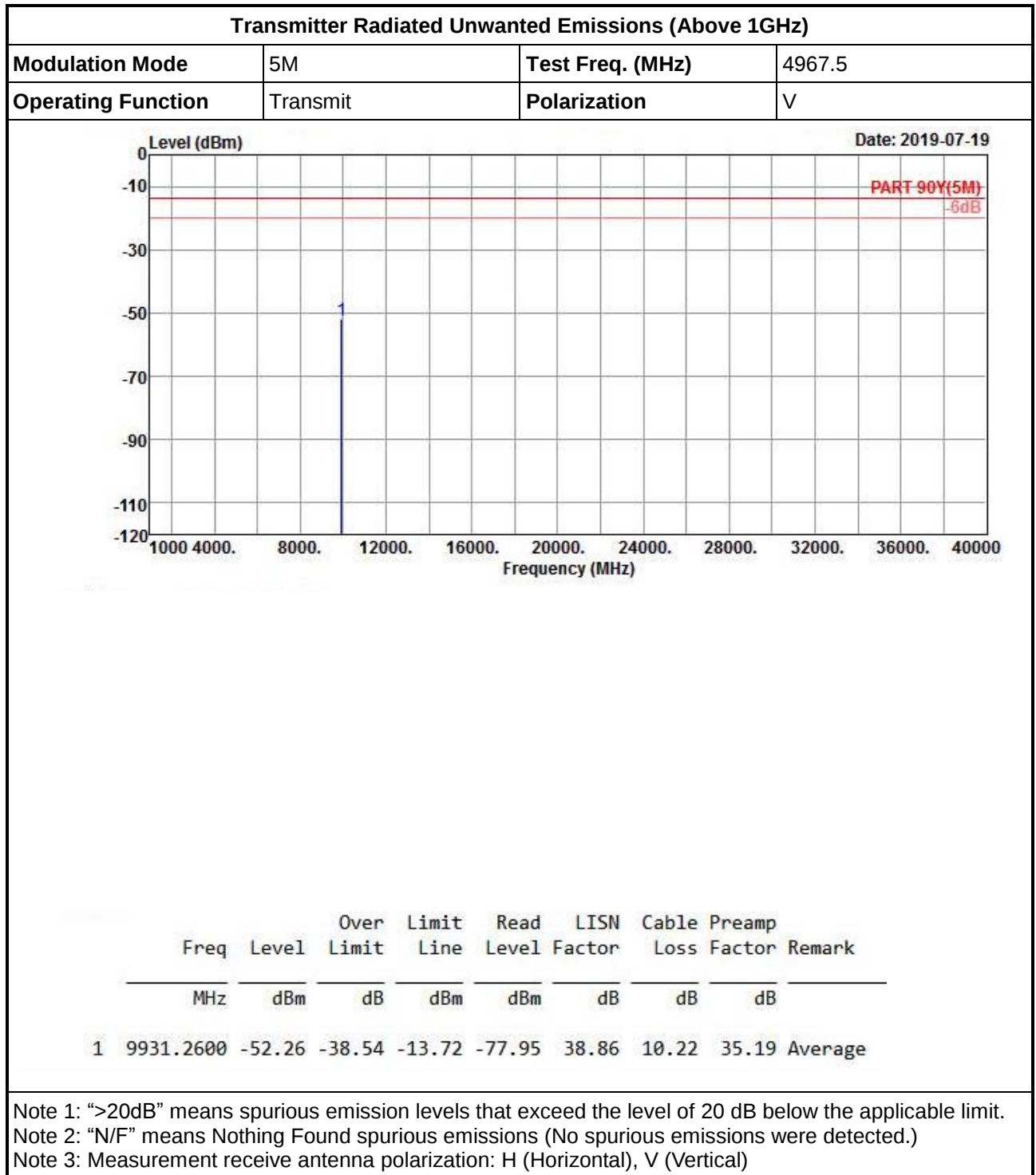


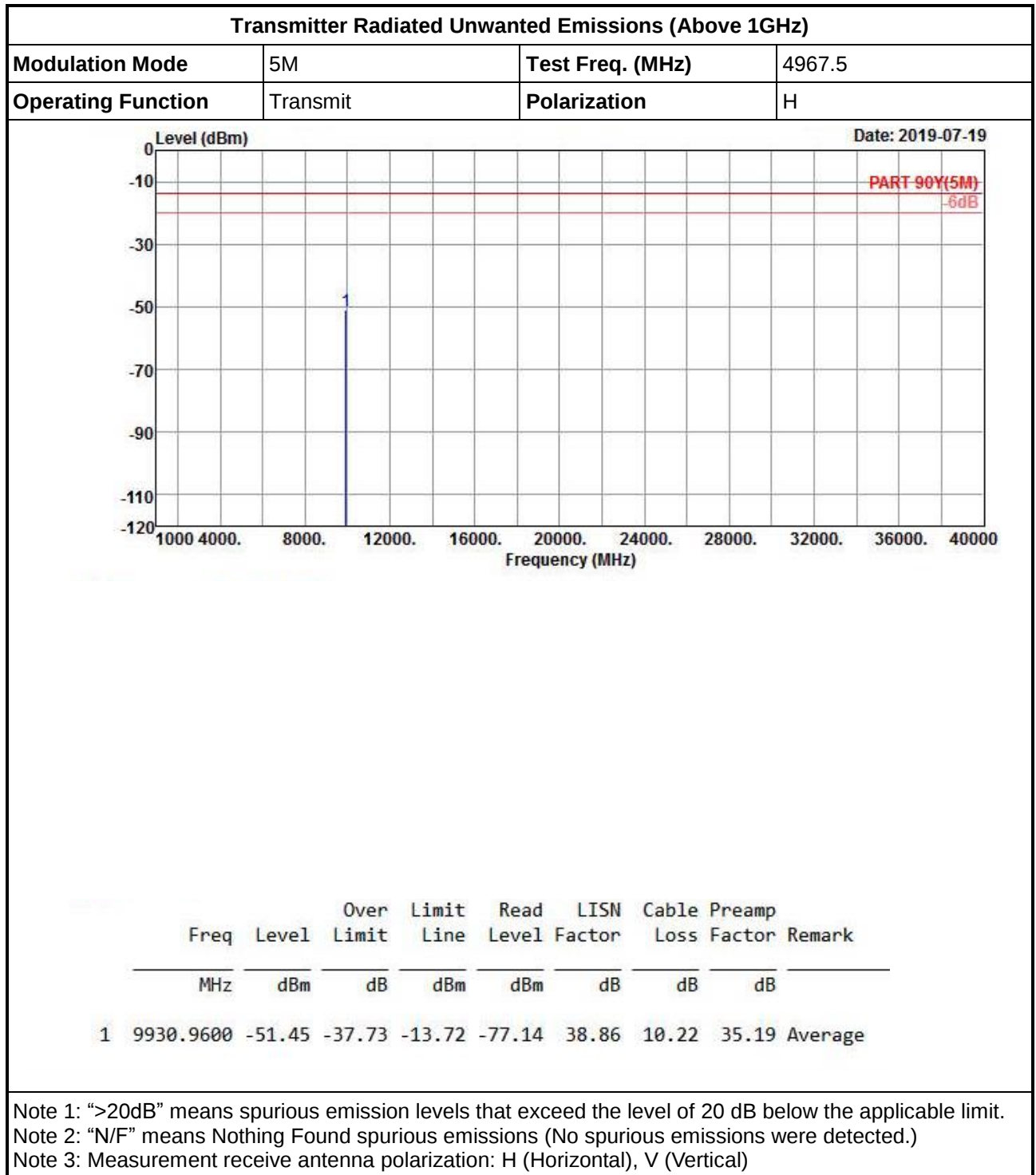


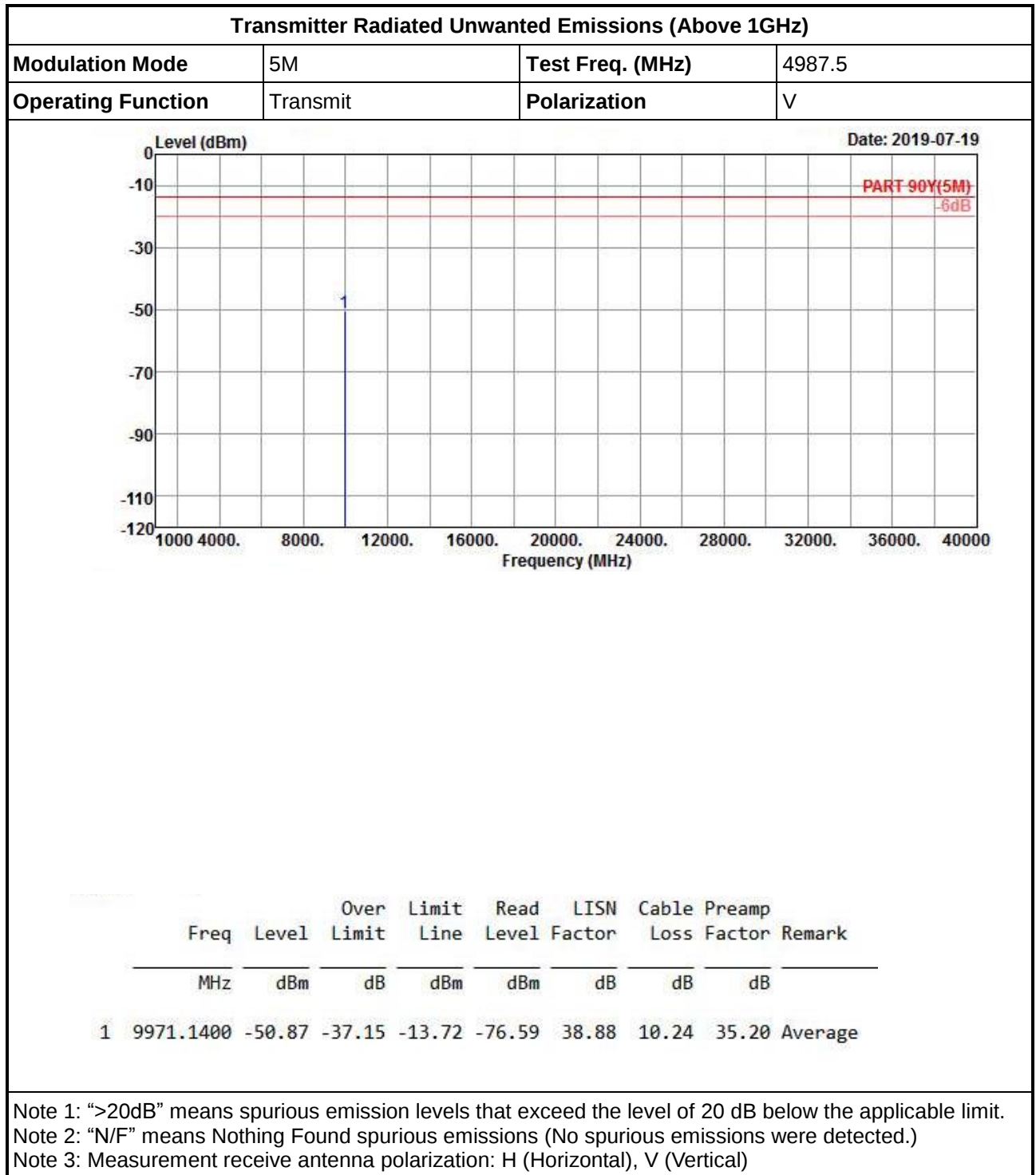


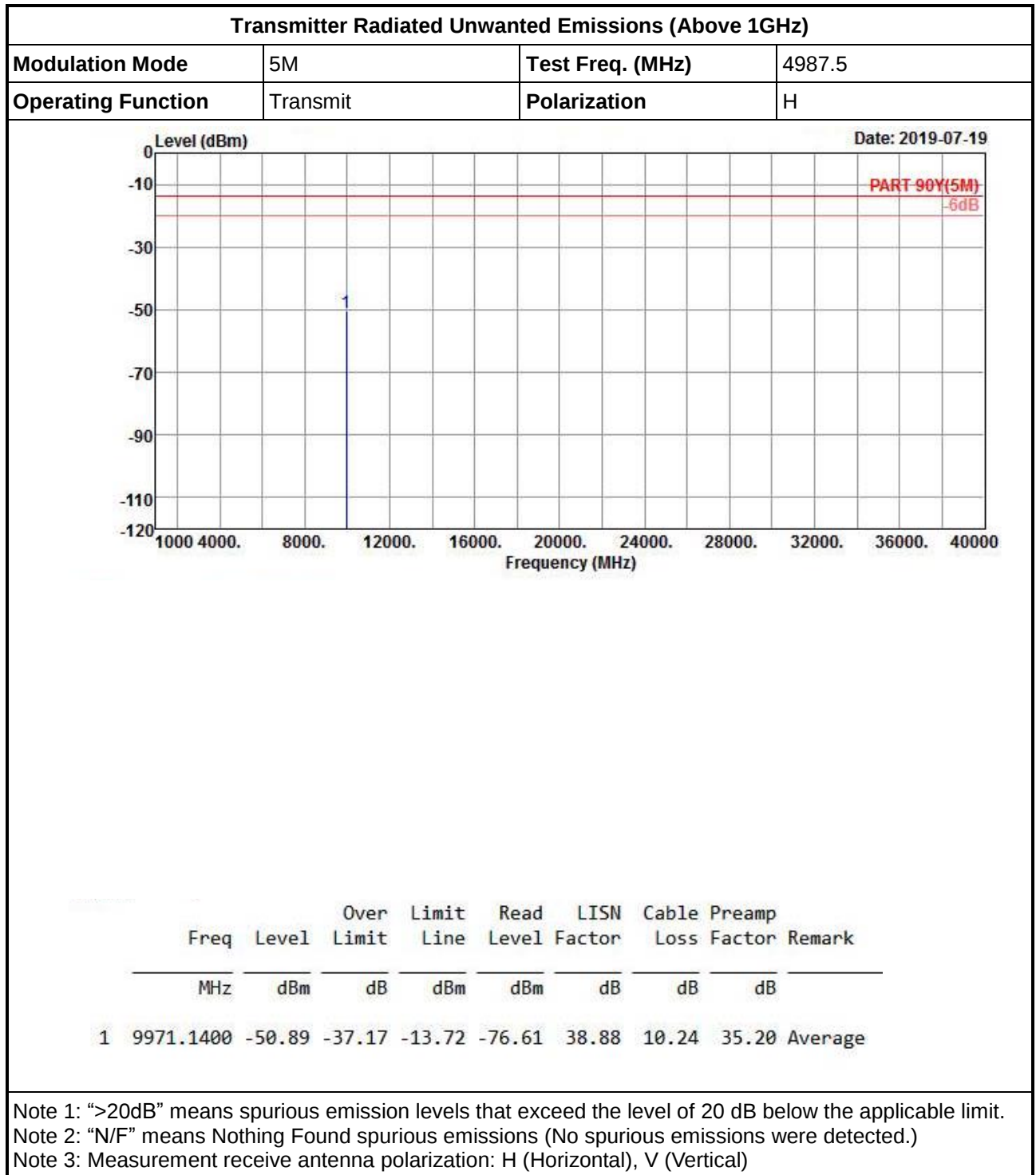
3.7.6 Transmitter Radiated Unwanted Emissions (Above 1GHz)


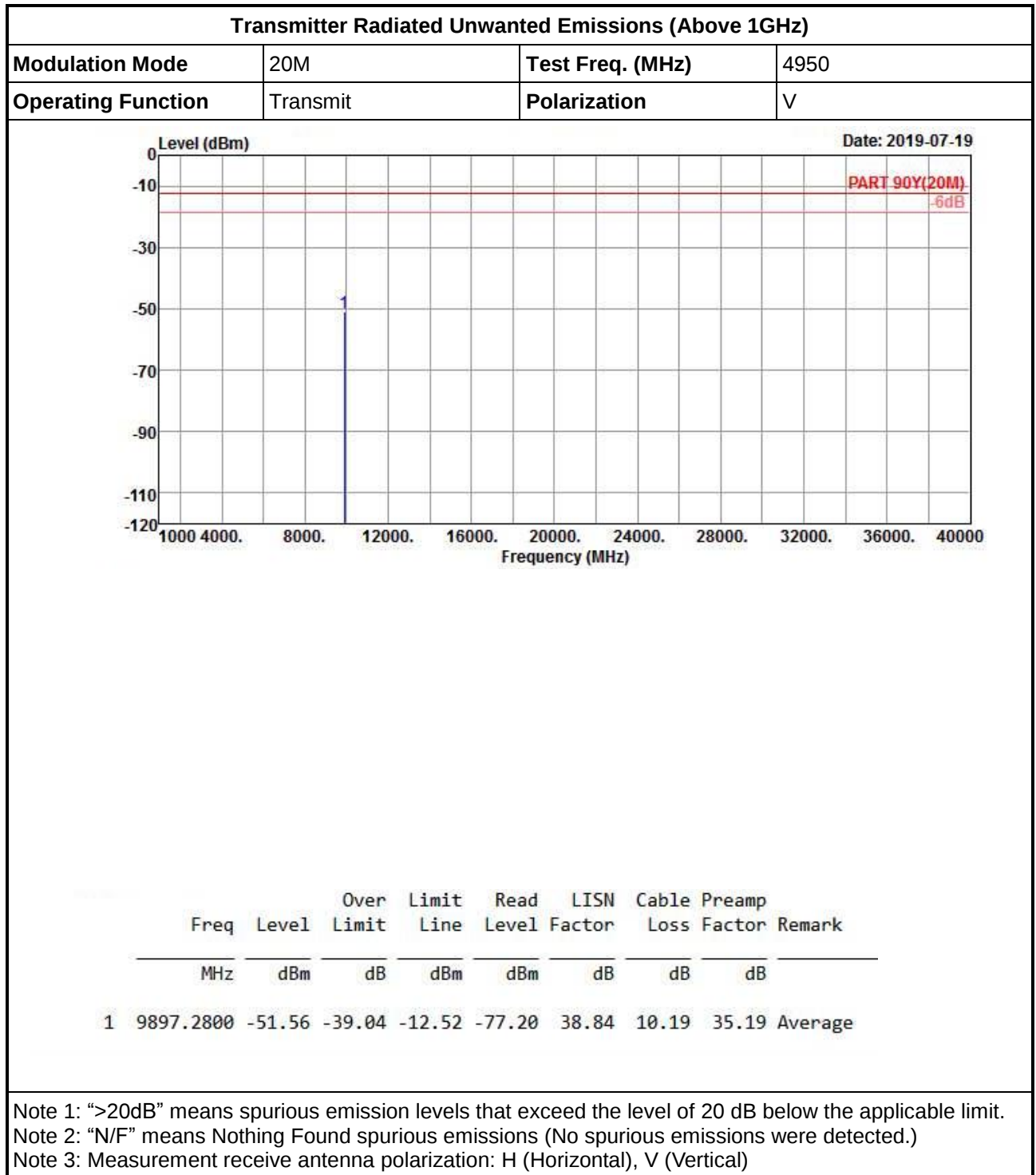


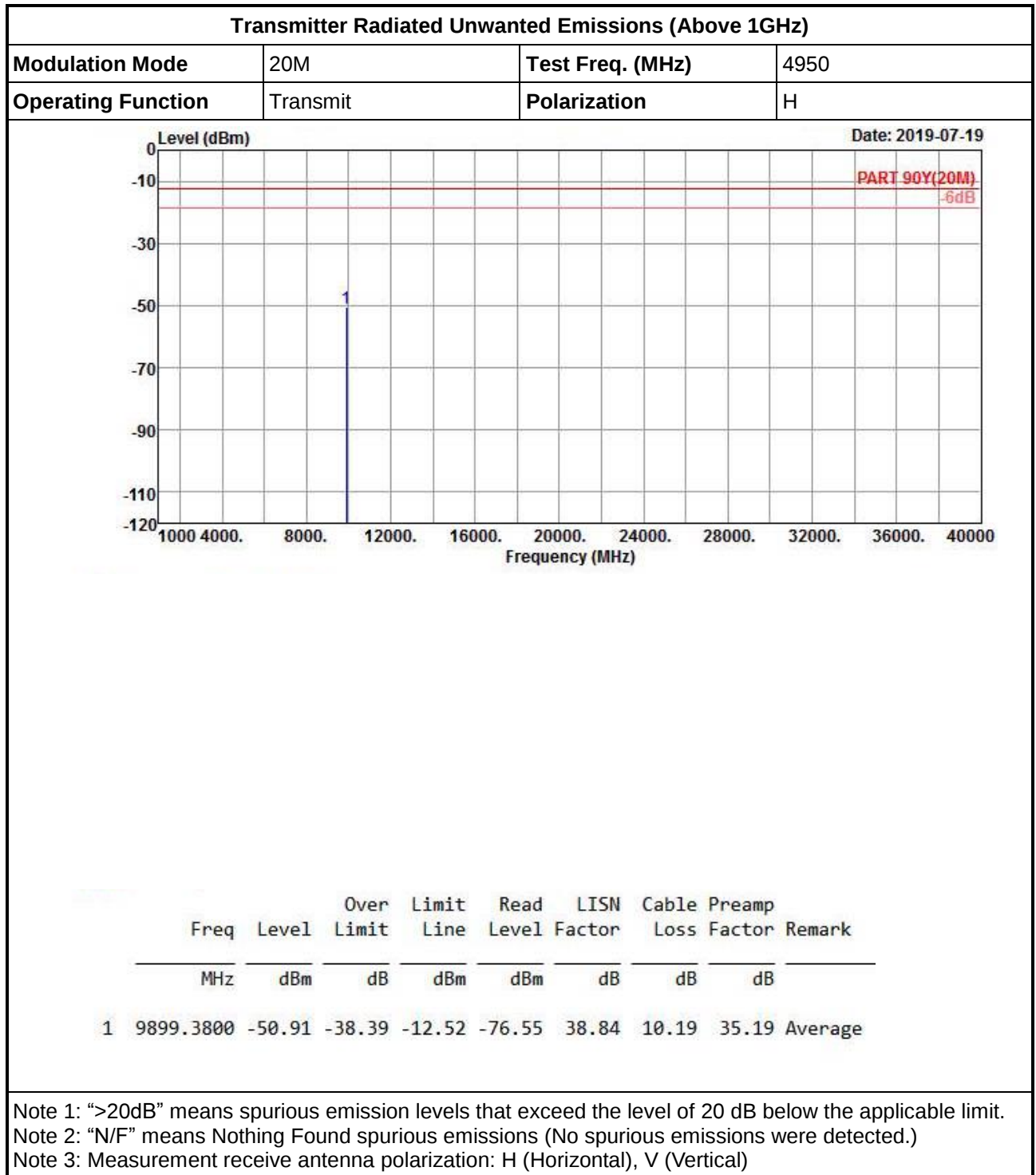


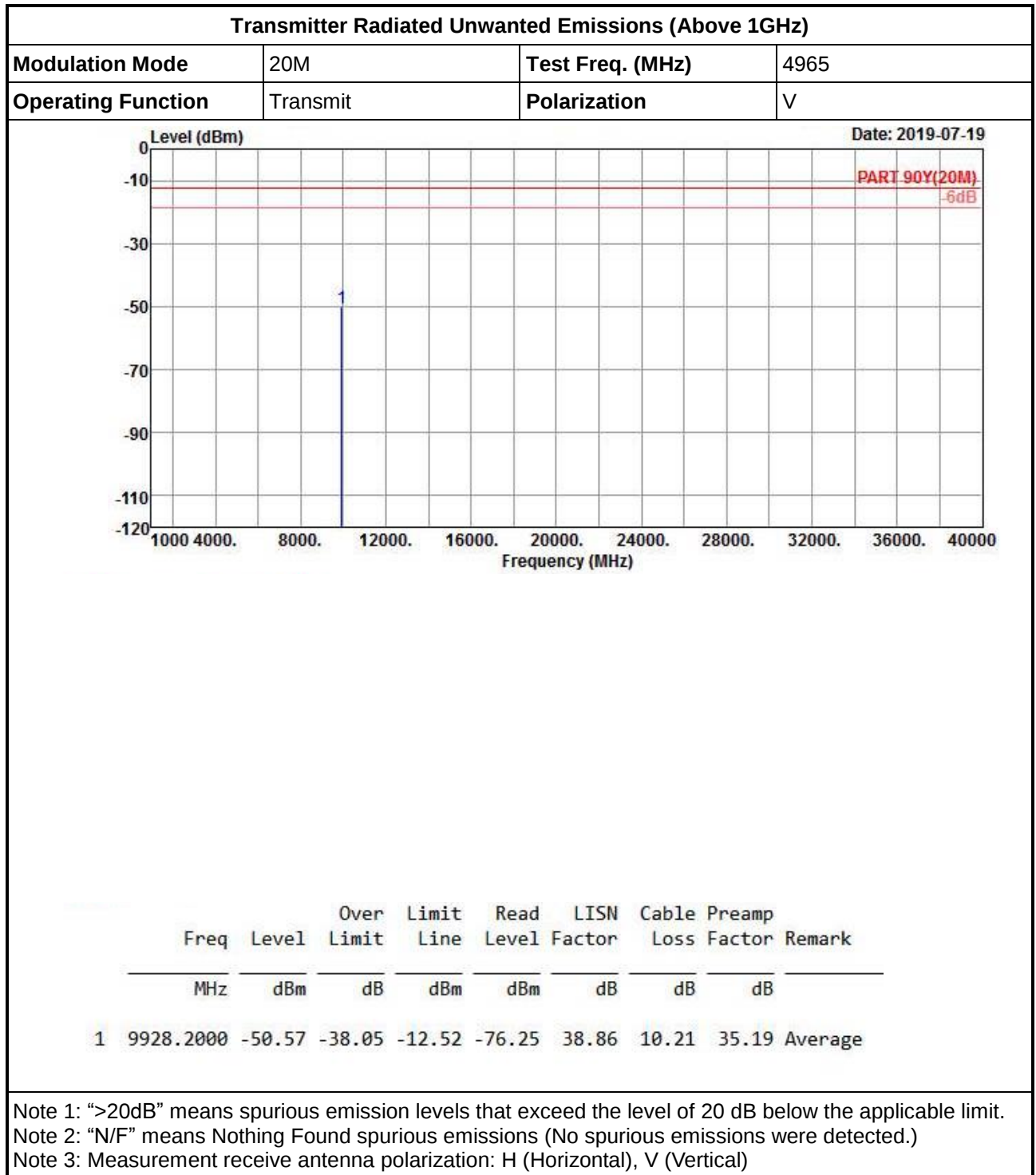


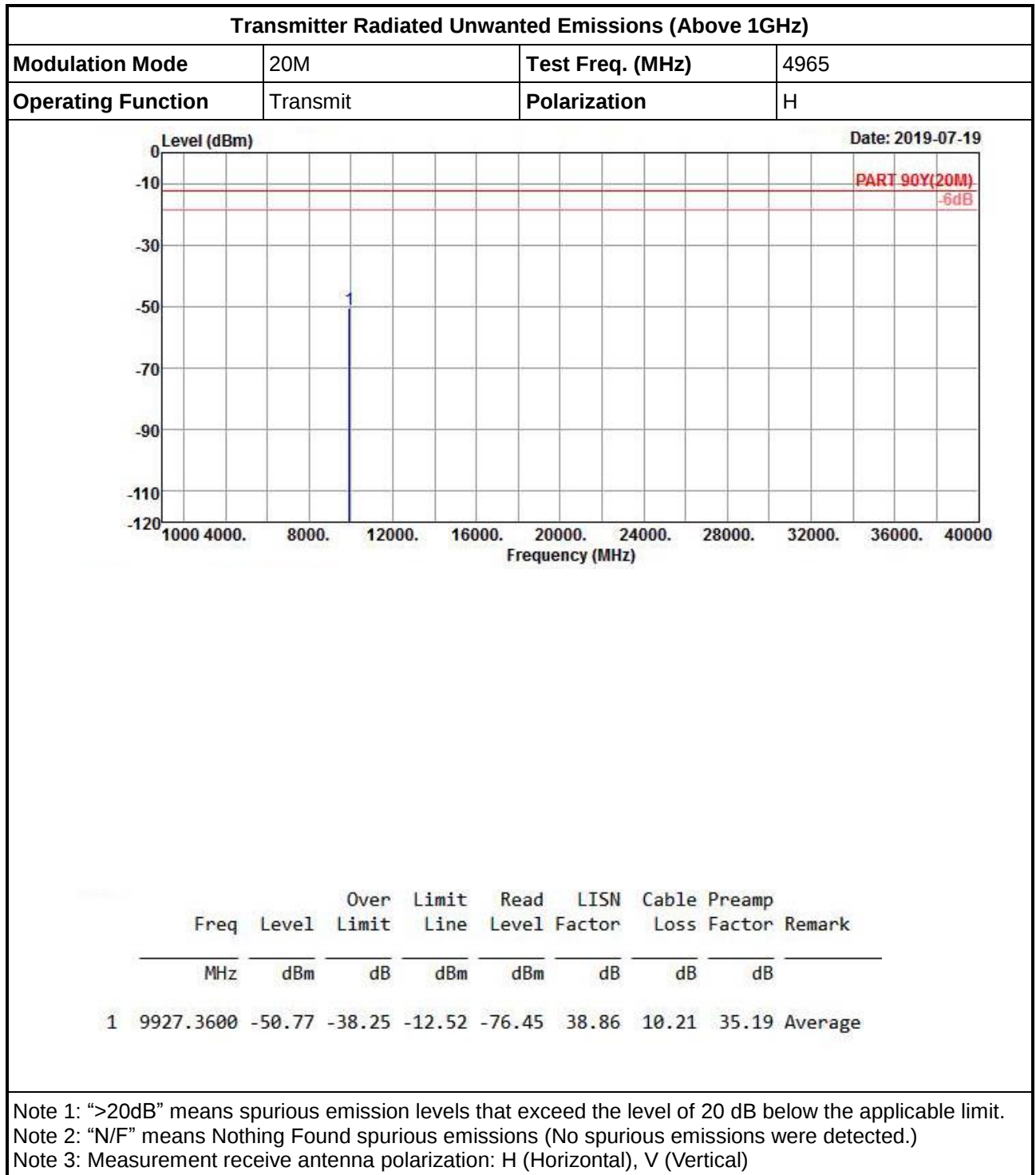


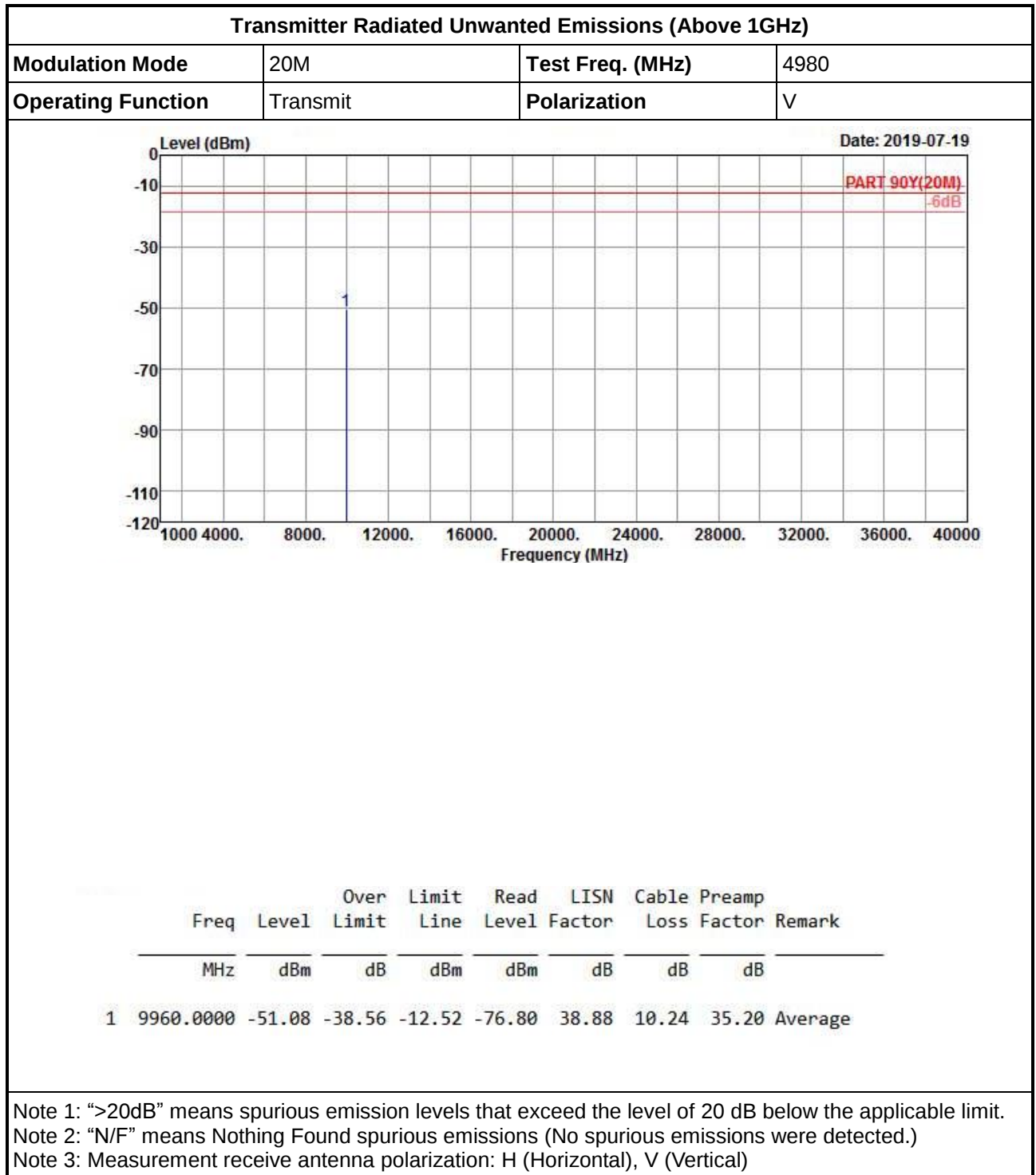


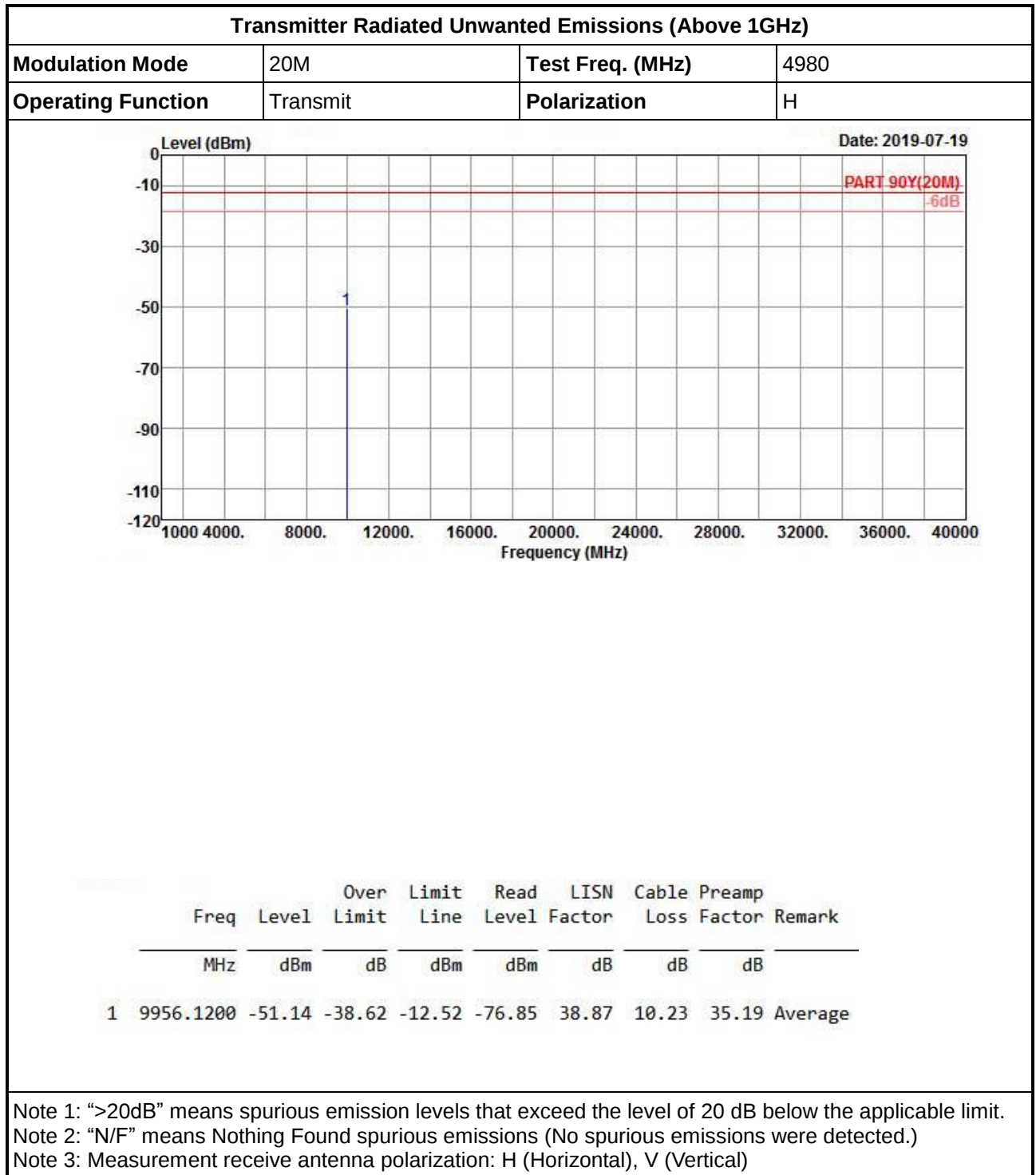












3.8 Frequency Stability

3.8.1 Frequency Stability Limit

Frequency Stability Limit	
☒	The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency band.
Note 1: These measurements shall also be performed at normal and extreme test conditions.	
Note 2: Refer as FCC Part 90.213.	

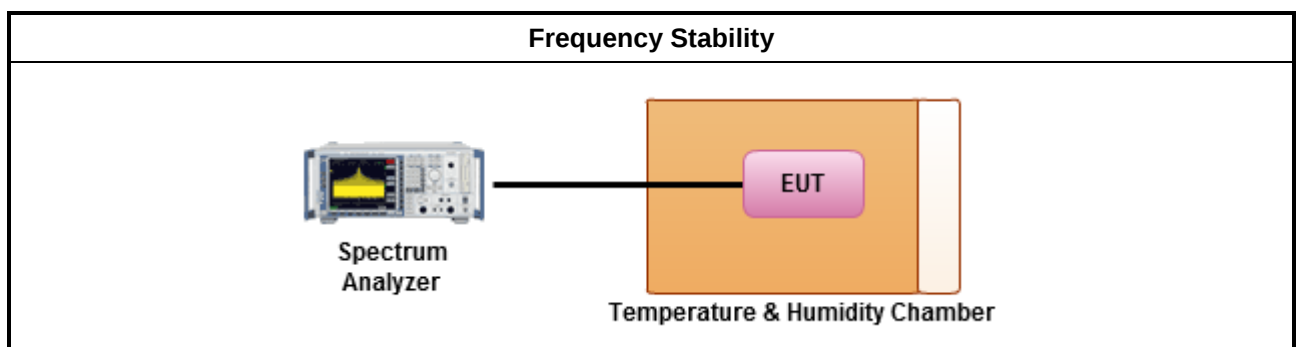
3.8.2 Measuring Instruments

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

3.8.3 Test Procedures

Test Method	
☒	Refer as ANSI C63.26-2015, clause 3.2.2 for frequency stability tests
☒	Frequency stability with respect to ambient temperature
☒	Frequency stability when varying supply voltage
☒	For conducted measurement.
☒	For conducted measurements on devices with multiple transmit chains: Measurements need only to be performed on one of the active transmit chains (antenna outputs)
☐	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.

3.8.4 Test Setup



3.8.5 Test Result of Frequency Stability

Refer as Appendix G

4 Test Equipment and Calibration Data

< Conducted >

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz~18G	21/Mar/2019	20/Mar/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	21/Mar/2019	20/Mar/2020
Cable 1.5m	HUBER	MY37964/4	RF Cable - 13	30MHz ~18G	21/Mar/2019	20/Mar/2020
Cable 1.5m	HUBER	MY37965/4	RF Cable - 14	30MHz ~18G	21/Mar/2019	20/Mar/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable - 05	30MHz~18G	21/Mar/2019	20/Mar/2020
*TEMP & humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40~100℃ 10~98%RH	04/Dec/2018	03/Dec/2019

< Radiated >

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	30-1000MHz	02/Jul/2019	01/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Signal Analyzer	R&S	FSP40	100593	9 kHz ~ 40 GHz	27/Dec/2018	26/Dec/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	18/Jan/2019	17/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	18/Jan/2019	17/Jan/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
4.94-4.99GHz	-	-	-	-	-
OFDM_5MHz_Nss2_2TX	5.444M	4.442M	4M44	4.931M	4.429M
OFDM_20MHz_Nss2_2TX	22.225M	17.716M	17M7	21.375M	17.666M

Max-N dB = Maximum 26dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

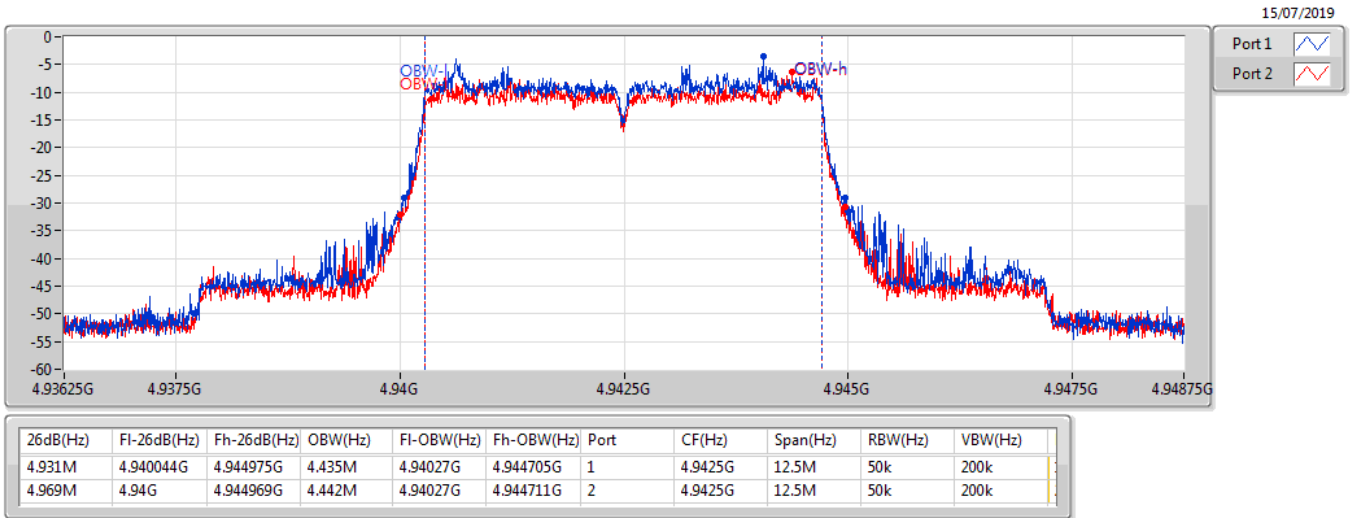
Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Port 2-NdB (Hz)	Port 2-OBW (Hz)
4.94-4.99GHz_OFDM_5MHz_Nss2_2TX	-	-	-	-	-	-
4942.5MHz	Pass	Inf	4.931M	4.435M	4.969M	4.442M
4967.5MHz	Pass	Inf	5.444M	4.429M	5.038M	4.435M
4987.5MHz	Pass	Inf	5.163M	4.435M	5M	4.442M
4.94-4.99GHz_OFDM_20MHz_Nss2_2TX	-	-	-	-	-	-
4950MHz	Pass	Inf	21.925M	17.666M	21.75M	17.716M
4965MHz	Pass	Inf	22.225M	17.691M	21.375M	17.691M
4980MHz	Pass	Inf	21.875M	17.716M	21.45M	17.666M

Port X-N dB = Port X 26dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

EBW

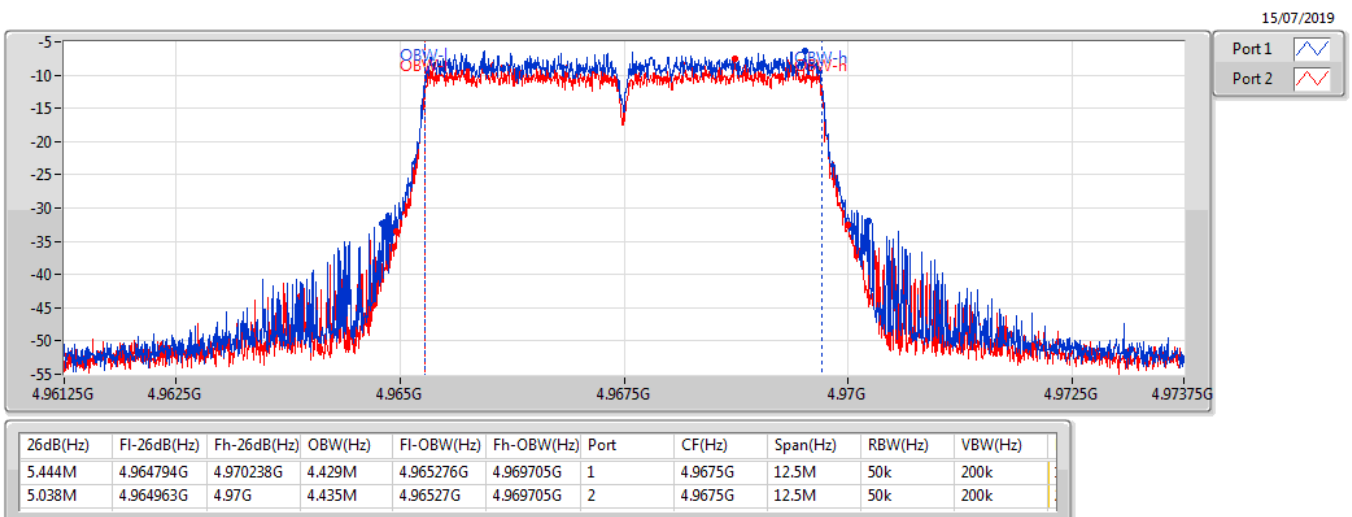
4942.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

EBW

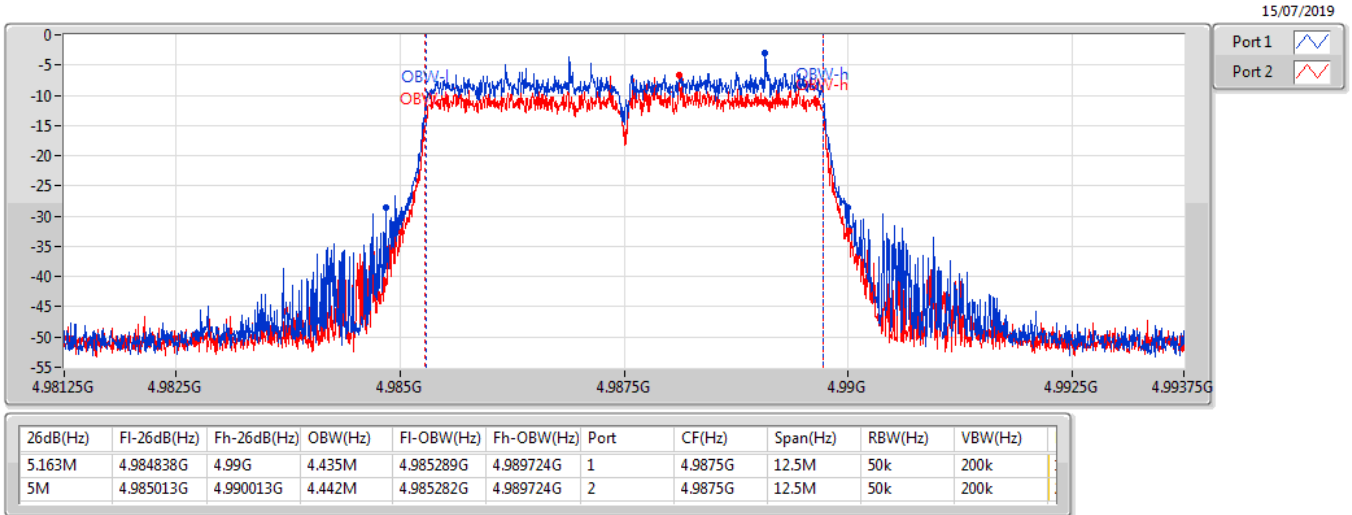
4967.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

EBW

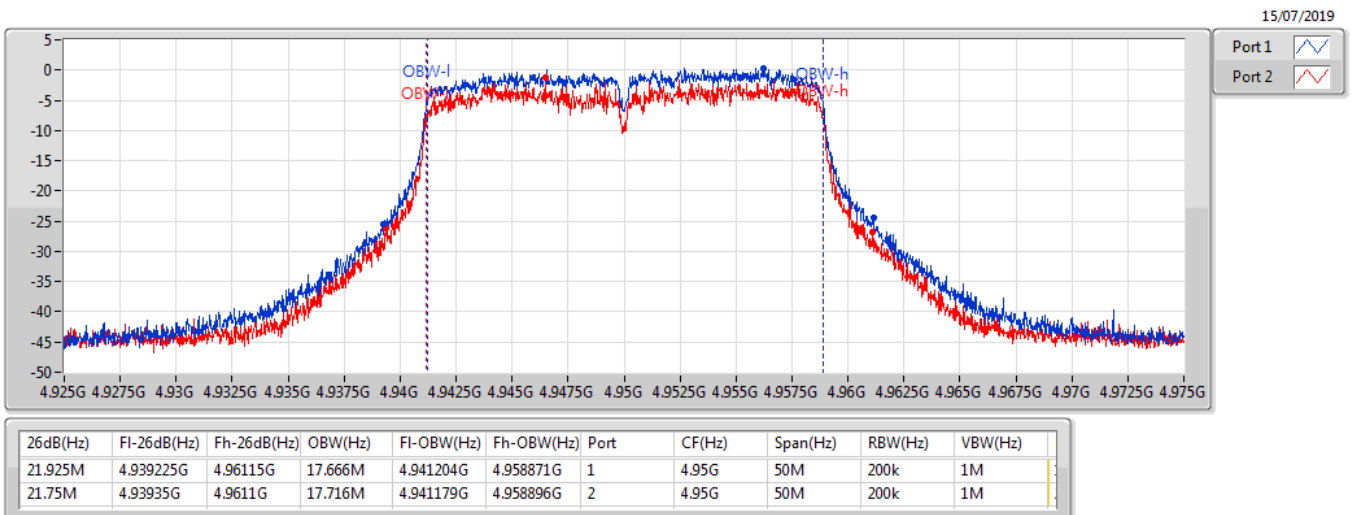
4987.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

EBW

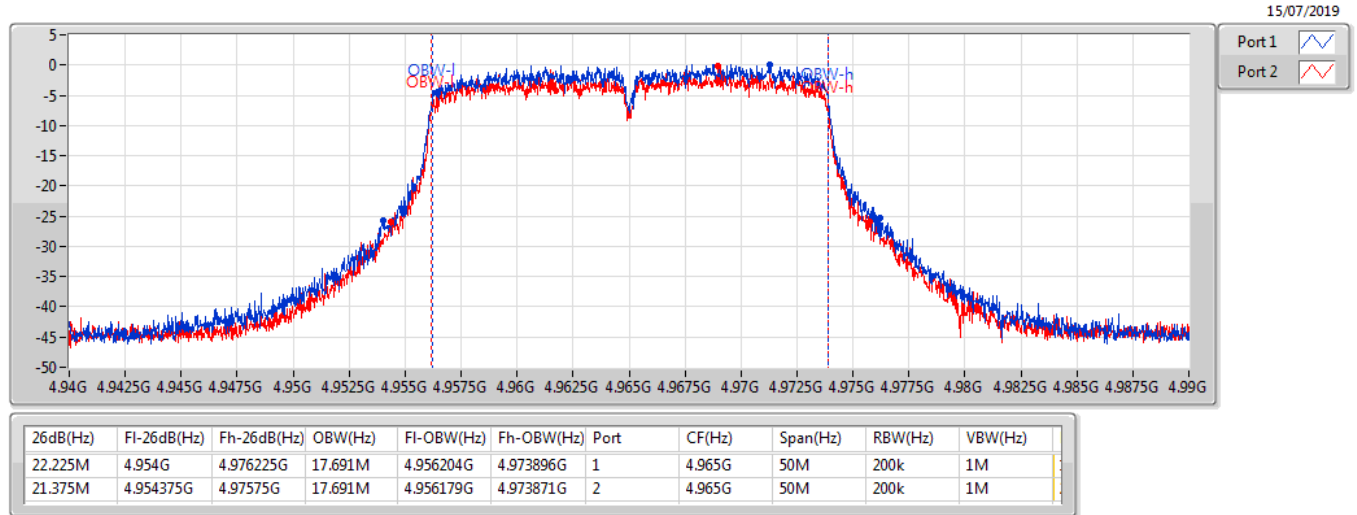
4950MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

EBW

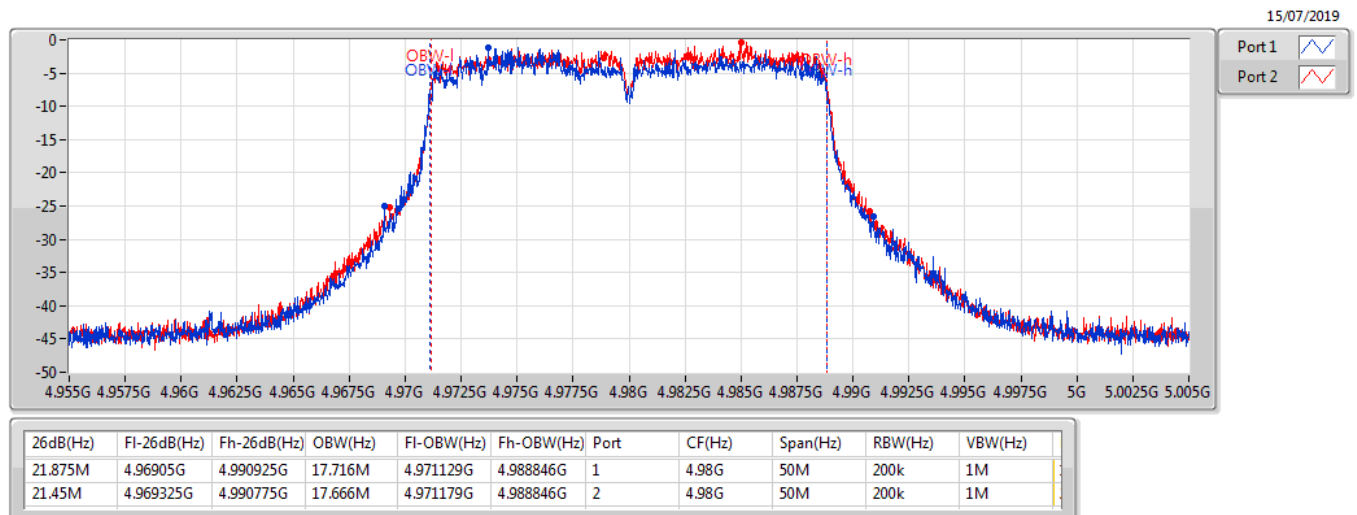
4965MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

EBW

4980MHz





Summary

Mode	Power (dBm)	Power (W)	EIRP (dBm)	EIRP (W)
4.94-4.99GHz	-	-	-	-
OFDM_5MHz_Nss2_2TX	13.48	0.022	19.78	0.09506
OFDM_20MHz_Nss2_2TX	19.68	0.093	25.98	0.39628

Result

Mode	Result	DG (dBi)	Power (dBm)	Power Lim. (dBm)	EIRP (dBm)	Port 1 (dBm)	Port 2 (dBm)
4.94-4.99GHz_OFDM_5MHz_Nss2_2TX	-	-	-	-	-	-	-
4942.5MHz	Pass	6.30	13.48	14.00	19.78	11.27	9.48
4967.5MHz	Pass	6.30	13.24	14.00	19.54	10.96	9.34
4987.5MHz	Pass	6.30	13.48	14.00	19.78	11.60	8.95
4.94-4.99GHz_OFDM_20MHz_Nss2_2TX	-	-	-	-	-	-	-
4950MHz	Pass	6.30	19.67	20.00	25.97	17.64	15.40
4965MHz	Pass	6.30	19.68	20.00	25.98	17.32	15.91
4980MHz	Pass	6.30	19.11	20.00	25.41	16.18	16.01

DG = Directional Gain; **Port n** = Port n output power

Summary

Mode	PD (dBm/MHz)	EIRP PD (dBm/MHz)
4.94-4.99GHz	-	-
802.11J_5MHz_Nss2_2TX	0.68	6.98
802.11J_20MHz_Nss2_2TX	1.17	7.47

Result

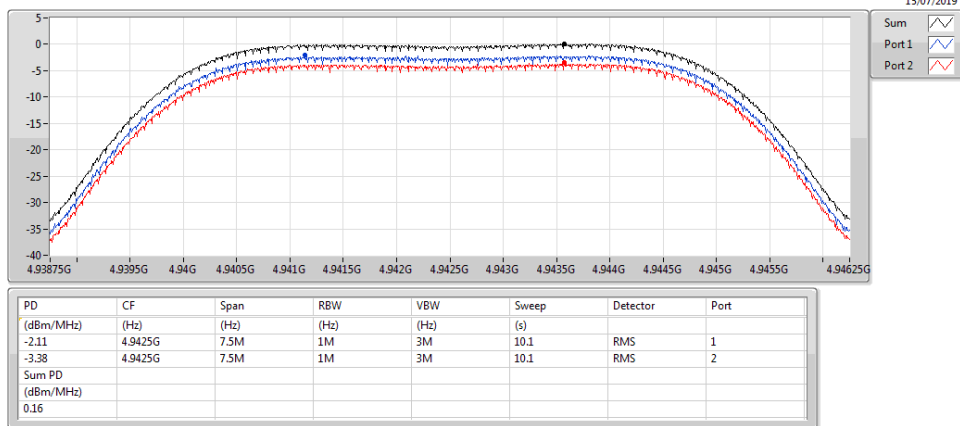
Mode	Result	DG (dBi)	PD (dBm/MHz)	PD Limit (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)	Port 1 (dBm/MHz)	Port 2 (dBm/MHz)
4.94-4.99GHz_802.11J_5MHz_Nss2_2TX	-	-	-	-	-	-	-	-
4942.5MHz	Pass	6.30	0.16	8.00	6.46	Inf	-2.11	-3.38
4967.5MHz	Pass	6.30	0.68	8.00	6.98	Inf	-1.53	-3.03
4987.5MHz	Pass	6.30	0.40	8.00	6.7	Inf	-1.42	-4.03
4.94-4.99GHz_802.11J_20MHz_Nss2_2TX	-	-	-	-	-	-	-	-
4950MHz	Pass	6.30	1.17	8.00	7.47	Inf	-0.75	-2.97
4965MHz	Pass	6.30	0.34	8.00	6.64	Inf	-1.34	-3.36
4980MHz	Pass	6.30	0.90	8.00	7.2	Inf	-1.36	-2.64

DG = Directional Gain;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

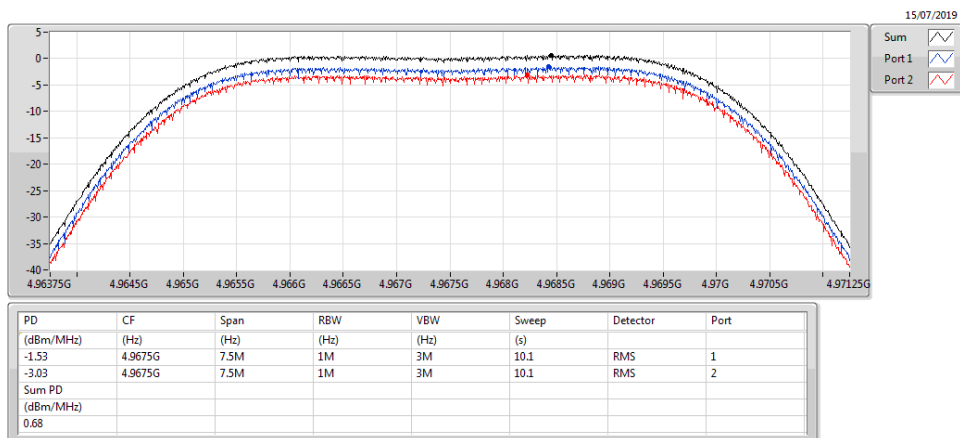
4.94-4.99GHz_802.11J_5MHz_Nss2,QPSK_2TX
4942.5MHz_QPSK

PSD



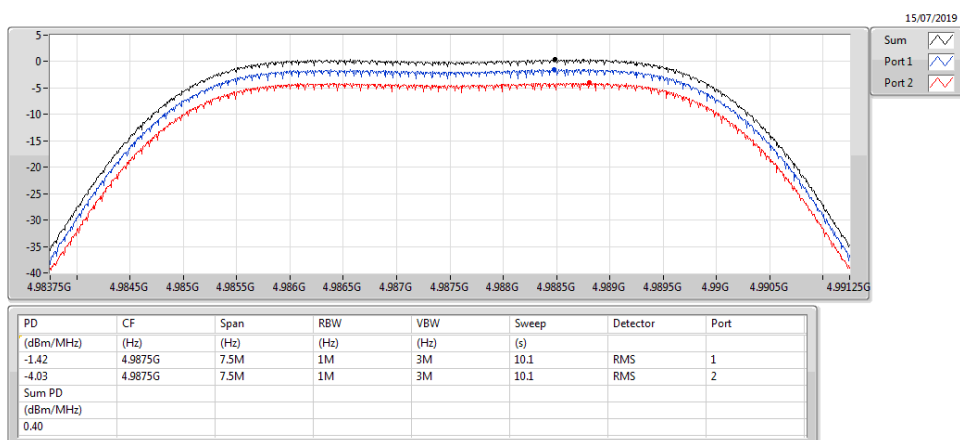
4.94-4.99GHz_802.11J_5MHz_Nss2,QPSK_2TX
4967.5MHz_QPSK

PSD



4.94-4.99GHz_802.11J_5MHz_Nss2,QPSK_2TX
4987.5MHz_QPSK

PSD



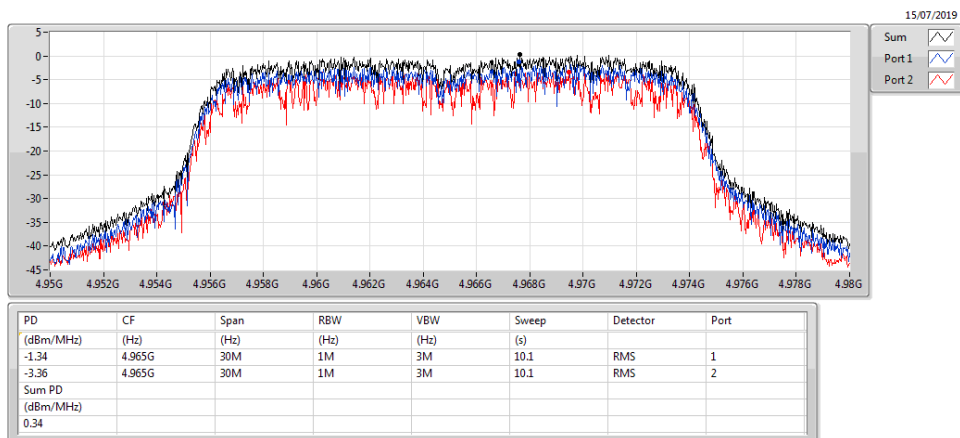
4.94-4.99GHz_802.11J_20MHz_Nss2,QPSK_2TX
4950MHz_QPSK

PSD



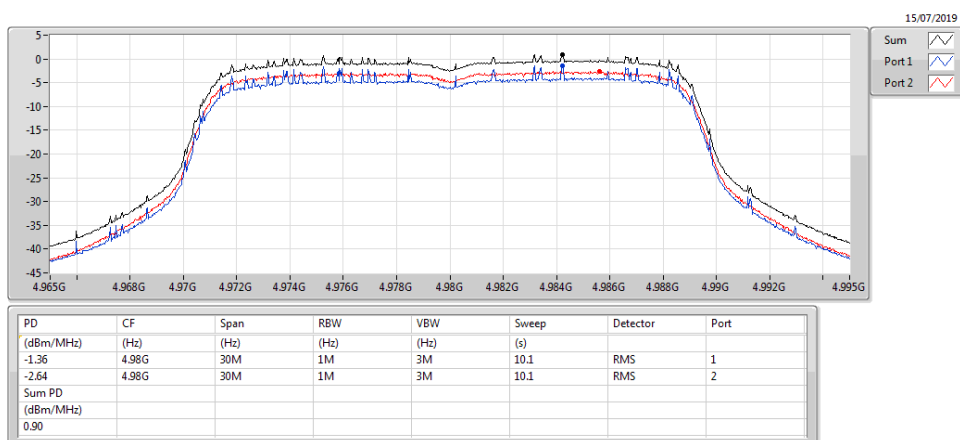
4.94-4.99GHz_802.11J_20MHz_Nss2,QPSK_2TX
4965MHz_QPSK

PSD



4.94-4.99GHz_802.11J_20MHz_Nss2,QPSK_2TX
4980MHz_QPSK

PSD





Peak to Average Power Ratio (PAPR)

Appendix D

Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
4.94-4.99GHz	-	-	-	-	-
OFDM_5MHz_Nss2_2TX	Pass	4942.5	13.00	9.86	1
OFDM_20MHz_Nss2_2TX	Pass	4950	13.00	8.70	1



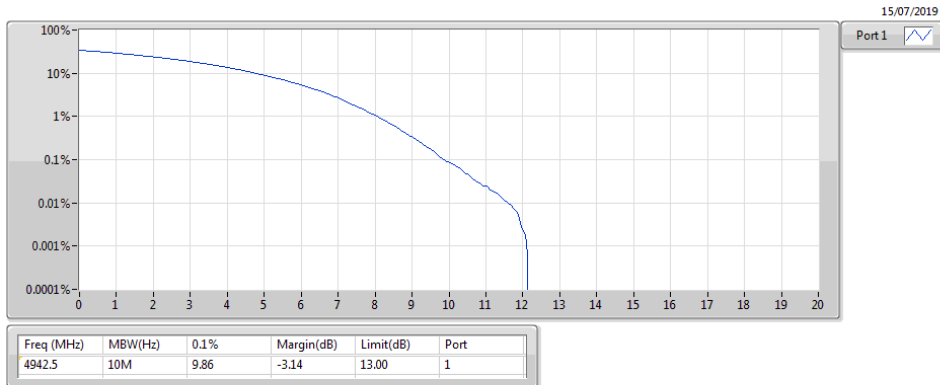
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
4.94-4.99GHz_OFDM_5MHz_Nss2_2TX	-	-	-	-	-
4942.5MHz	Pass	4942.5	13.00	9.86	1
4967.5MHz	Pass	4967.5	13.00	8.64	1
4987.5MHz	Pass	4987.5	13.00	9.33	1
4.94-4.99GHz_OFDM_20MHz_Nss2_2TX	-	-	-	-	-
4950MHz	Pass	4950	13.00	8.70	1
4965MHz	Pass	4965	13.00	8.32	1
4980MHz	Pass	4980	13.00	8.49	1

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

PAR

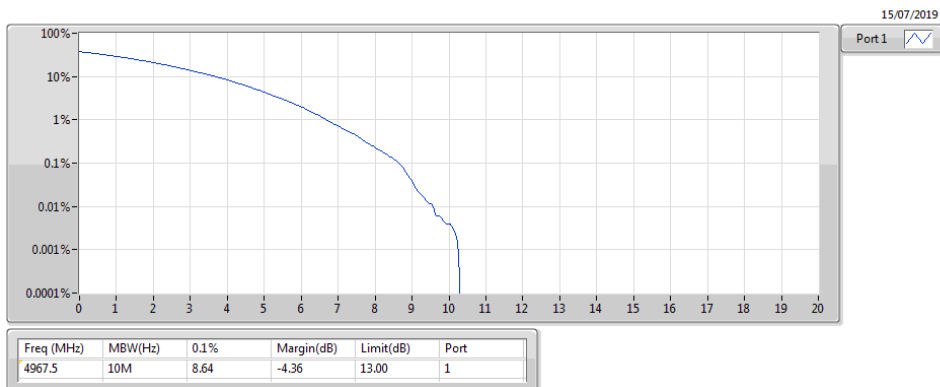
4942.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

PAR

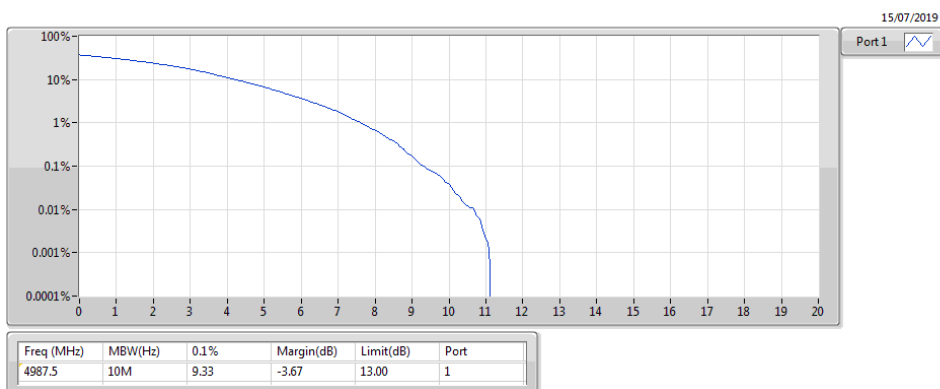
4967.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

PAR

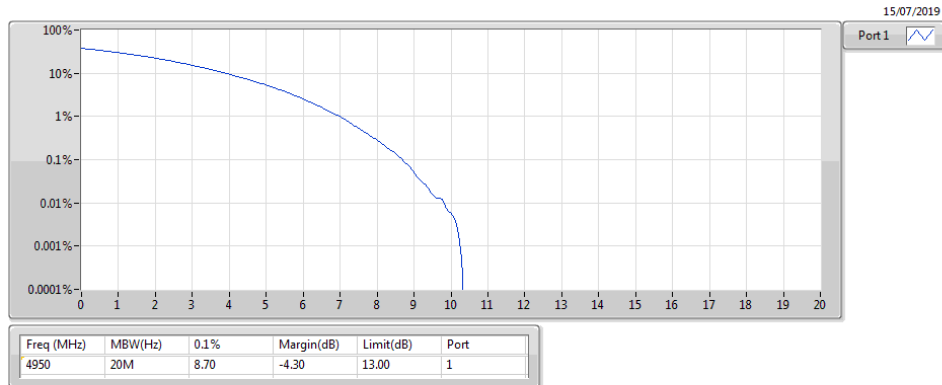
4987.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

PAR

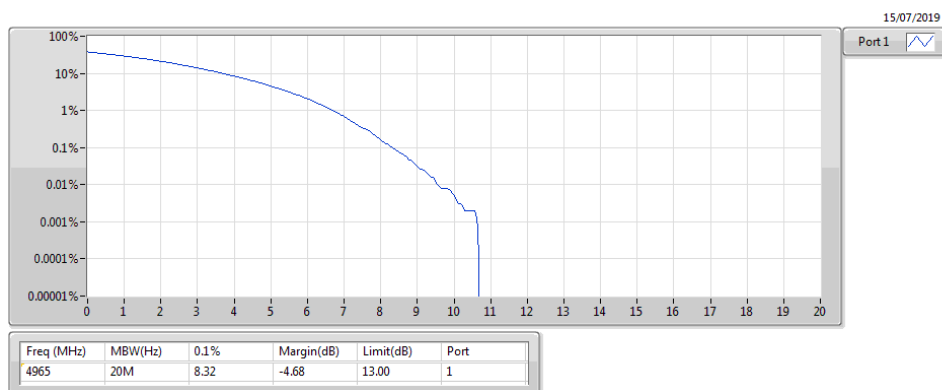
4950MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

PAR

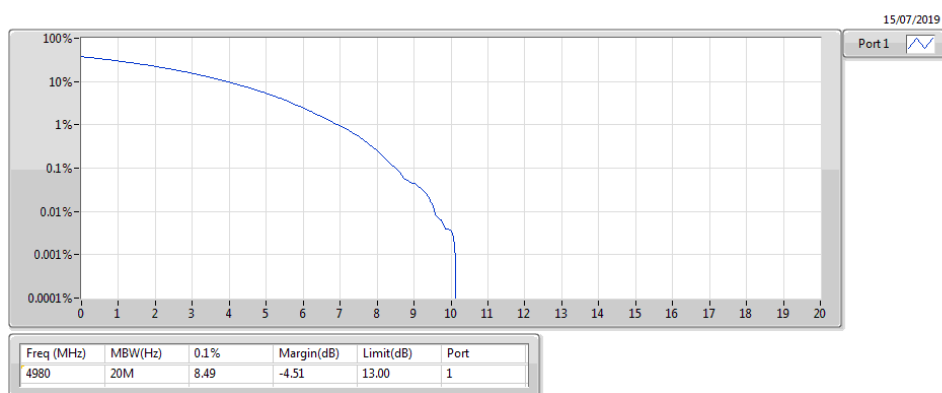
4965MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

PAR

4980MHz



Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
4.94-4.99GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
OFDM_5MHz_Nss2_2TX	Pass	4.9925G	5G	50k	30k	Average	5G	-64.62	-56.36	-8.26	2	-	-
OFDM_20MHz_Nss2_2TX	Pass	4.961G	4.97G	200k	30k	Average	4.96109G	-41.04	-32.53	-8.51	2	-	-

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
4.94-4.99GHz_OFDM_5MHz_Nss2_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
4942.5MHz	Pass	4.93G	4.9375G	50k	30k	Average	4.93533G	-68.48	-51.92	-16.56	1	-	-
4942.5MHz	Pass	4.9375G	4.93975G	50k	30k	Average	4.93789G	-50.69	-40.08	-10.61	1	-	-
4942.5MHz	Pass	4.93975G	4.94G	50k	30k	Average	4.93977G	-46.83	-32.60	-14.23	1	-	-
4942.5MHz	Pass	4.94G	4.94025G	50k	30k	Average	4.94025G	-24.19	-13.57	-10.62	1	-	-
4942.5MHz	Pass	4.94025G	4.94475G	50k	30k	Average	4.944143G	-13.48	Inf	-Inf	1	Ref.PK	-
4942.5MHz	Pass	4.94475G	4.945G	50k	30k	Average	4.94475G	-24.12	-13.55	-10.57	1	-	-
4942.5MHz	Pass	4.945G	4.94525G	50k	30k	Average	4.94523G	-46.53	-32.57	-13.96	1	-	-
4942.5MHz	Pass	4.94525G	4.9475G	50k	30k	Average	4.9471G	-50.05	-40.06	-9.99	1	-	-
4942.5MHz	Pass	4.9475G	4.955G	50k	30k	Average	4.95039G	-69.46	-53.48	-15.98	1	-	-
4942.5MHz	Pass	4.93G	4.9375G	50k	30k	Average	4.93345G	-71.72	-56.18	-15.54	2	-	-
4942.5MHz	Pass	4.9375G	4.93975G	50k	30k	Average	4.93814G	-52.01	-41.90	-10.11	2	-	-
4942.5MHz	Pass	4.93975G	4.94G	50k	30k	Average	4.93979G	-48.31	-34.71	-13.60	2	-	-
4942.5MHz	Pass	4.94G	4.94025G	50k	30k	Average	4.94025G	-26.68	-16.23	-10.45	2	-	-
4942.5MHz	Pass	4.94025G	4.94475G	50k	30k	Average	4.944386G	-16.18	Inf	-Inf	2	Ref.PK	-
4942.5MHz	Pass	4.94475G	4.945G	50k	30k	Average	4.94475G	-26.10	-16.18	-9.92	2	-	-
4942.5MHz	Pass	4.945G	4.94525G	50k	30k	Average	4.94525G	-49.57	-36.00	-13.57	2	-	-
4942.5MHz	Pass	4.94525G	4.9475G	50k	30k	Average	4.94702G	-52.10	-42.47	-9.63	2	-	-
4942.5MHz	Pass	4.9475G	4.955G	50k	30k	Average	4.95102G	-70.78	-56.18	-14.60	2	-	-
4967.5MHz	Pass	4.955G	4.9625G	50k	30k	Average	4.96001G	-65.23	-54.01	-11.22	1	-	-
4967.5MHz	Pass	4.9625G	4.96475G	50k	30k	Average	4.96475G	-46.35	-34.06	-12.29	1	-	-
4967.5MHz	Pass	4.96475G	4.965G	50k	30k	Average	4.96476G	-45.24	-33.65	-11.59	1	-	-
4967.5MHz	Pass	4.965G	4.96525G	50k	30k	Average	4.96525G	-25.00	-14.07	-10.93	1	-	-
4967.5MHz	Pass	4.96525G	4.96975G	50k	30k	Average	4.96813G	-14.06	Inf	-Inf	1	Ref.PK	-
4967.5MHz	Pass	4.96975G	4.97G	50k	30k	Average	4.96975G	-23.23	-14.24	-8.99	1	-	-
4967.5MHz	Pass	4.97G	4.97025G	50k	30k	Average	4.97023G	-44.28	-33.12	-11.16	1	-	-
4967.5MHz	Pass	4.97025G	4.9725G	50k	30k	Average	4.97027G	-45.48	-34.12	-11.36	1	-	-
4967.5MHz	Pass	4.9725G	4.98G	50k	30k	Average	4.97504G	-68.46	-54.06	-14.40	1	-	-
4967.5MHz	Pass	4.955G	4.9625G	50k	30k	Average	4.96G	-64.79	-56.31	-8.48	2	-	-
4967.5MHz	Pass	4.9625G	4.96475G	50k	30k	Average	4.96473G	-48.16	-36.40	-11.76	2	-	-
4967.5MHz	Pass	4.96475G	4.965G	50k	30k	Average	4.9648G	-45.89	-34.50	-11.39	2	-	-
4967.5MHz	Pass	4.965G	4.96525G	50k	30k	Average	4.96525G	-27.69	-16.49	-11.20	2	-	-
4967.5MHz	Pass	4.96525G	4.96975G	50k	30k	Average	4.969147G	-16.31	Inf	-Inf	2	Ref.PK	-
4967.5MHz	Pass	4.96975G	4.97G	50k	30k	Average	4.96975G	-26.01	-16.47	-9.54	2	-	-
4967.5MHz	Pass	4.97G	4.97025G	50k	30k	Average	4.97025G	-47.61	-36.27	-11.34	2	-	-
4967.5MHz	Pass	4.97025G	4.9725G	50k	30k	Average	4.9703G	-47.91	-36.47	-11.44	2	-	-
4967.5MHz	Pass	4.9725G	4.98G	50k	30k	Average	4.97499G	-69.88	-56.26	-13.62	2	-	-
4987.5MHz	Pass	4.975G	4.9825G	50k	30k	Average	4.98033G	-66.25	-52.22	-14.03	1	-	-
4987.5MHz	Pass	4.9825G	4.98475G	50k	30k	Average	4.98474G	-52.25	-33.84	-18.41	1	-	-
4987.5MHz	Pass	4.98475G	4.985G	50k	30k	Average	4.98484G	-45.96	-30.18	-15.78	1	-	-
4987.5MHz	Pass	4.985G	4.98525G	50k	30k	Average	4.98525G	-25.20	-13.82	-11.38	1	-	-
4987.5MHz	Pass	4.98525G	4.98975G	50k	30k	Average	4.985594G	-13.82	Inf	-Inf	1	Ref.PK	-
4987.5MHz	Pass	4.98975G	4.99G	50k	30k	Average	4.98975G	-23.65	-13.86	-9.79	1	-	-
4987.5MHz	Pass	4.99G	4.99025G	50k	30k	Average	4.99023G	-48.64	-32.90	-15.74	1	-	-
4987.5MHz	Pass	4.99025G	4.9925G	50k	30k	Average	4.9903G	-50.86	-34.00	-16.86	1	-	-
4987.5MHz	Pass	4.9925G	5G	50k	30k	Average	5G	-64.73	-53.82	-10.91	1	-	-
4987.5MHz	Pass	4.975G	4.9825G	50k	30k	Average	4.98038G	-68.18	-54.55	-13.63	2	-	-
4987.5MHz	Pass	4.9825G	4.98475G	50k	30k	Average	4.98471G	-53.99	-36.50	-17.49	2	-	-
4987.5MHz	Pass	4.98475G	4.985G	50k	30k	Average	4.98498G	-43.13	-27.23	-15.90	2	-	-
4987.5MHz	Pass	4.985G	4.98525G	50k	30k	Average	4.98525G	-27.02	-16.40	-10.62	2	-	-
4987.5MHz	Pass	4.98525G	4.98975G	50k	30k	Average	4.985705G	-16.36	Inf	-Inf	2	Ref.PK	-
4987.5MHz	Pass	4.98975G	4.99G	50k	30k	Average	4.98975G	-26.70	-16.36	-10.34	2	-	-
4987.5MHz	Pass	4.99G	4.99025G	50k	30k	Average	4.99023G	-51.35	-35.74	-15.61	2	-	-

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
4987.5MHz	Pass	4.99025G	4.9925G	50k	30k	Average	4.99026G	-54.45	-36.38	-18.07	2	-	-
4987.5MHz	Pass	4.9925G	5G	50k	30k	Average	5G	-64.62	-56.36	-8.26	2	-	-
4.94-4.99GHz_OFDM_20MHz_Nss2_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
4950MHz	Pass	4.9G	4.93G	200k	30k	Average	4.92001G	-67.27	-47.78	-19.49	1	-	-
4950MHz	Pass	4.93G	4.939G	200k	30k	Average	4.93891G	-38.63	-27.87	-10.76	1	-	-
4950MHz	Pass	4.939G	4.94G	200k	30k	Average	4.93901G	-38.37	-27.71	-10.66	1	-	-
4950MHz	Pass	4.94G	4.941G	200k	30k	Average	4.941G	-20.41	-7.80	-12.61	1	-	-
4950MHz	Pass	4.941G	4.959G	200k	30k	Average	4.956588G	-7.79	Inf	-Inf	1	Ref.PK	-
4950MHz	Pass	4.959G	4.96G	200k	30k	Average	4.959G	-19.99	-7.79	-12.20	1	-	-
4950MHz	Pass	4.96G	4.961G	200k	30k	Average	4.96098G	-36.99	-27.59	-9.40	1	-	-
4950MHz	Pass	4.961G	4.97G	200k	30k	Average	4.96114G	-37.50	-27.91	-9.59	1	-	-
4950MHz	Pass	4.97G	5G	200k	30k	Average	5G	-61.23	-47.79	-13.44	1	-	-
4950MHz	Pass	4.9G	4.93G	200k	30k	Average	4.92001G	-68.93	-52.44	-16.49	2	-	-
4950MHz	Pass	4.93G	4.939G	200k	30k	Average	4.93894G	-43.43	-32.51	-10.92	2	-	-
4950MHz	Pass	4.939G	4.94G	200k	30k	Average	4.93918G	-41.10	-30.69	-10.41	2	-	-
4950MHz	Pass	4.94G	4.941G	200k	30k	Average	4.94099G	-25.90	-12.59	-13.31	2	-	-
4950MHz	Pass	4.941G	4.959G	200k	30k	Average	4.95657G	-12.45	Inf	-Inf	2	Ref.PK	-
4950MHz	Pass	4.959G	4.96G	200k	30k	Average	4.959G	-24.12	-12.49	-11.63	2	-	-
4950MHz	Pass	4.96G	4.961G	200k	30k	Average	4.961G	-41.01	-32.43	-8.58	2	-	-
4950MHz	Pass	4.961G	4.97G	200k	30k	Average	4.96109G	-41.04	-32.53	-8.51	2	-	-
4950MHz	Pass	4.97G	5G	200k	30k	Average	4.99997G	-65.15	-52.45	-12.70	2	-	-
4965MHz	Pass	4.915G	4.945G	200k	30k	Average	4.91995G	-65.07	-48.77	-16.30	1	-	-
4965MHz	Pass	4.945G	4.954G	200k	30k	Average	4.95398G	-39.24	-28.79	-10.45	1	-	-
4965MHz	Pass	4.954G	4.955G	200k	30k	Average	4.9541G	-38.74	-27.81	-10.93	1	-	-
4965MHz	Pass	4.955G	4.956G	200k	30k	Average	4.95599G	-23.50	-8.83	-14.67	1	-	-
4965MHz	Pass	4.956G	4.974G	200k	30k	Average	4.97157G	-8.77	Inf	-Inf	1	Ref.PK	-
4965MHz	Pass	4.974G	4.975G	200k	30k	Average	4.97403G	-22.36	-9.03	-13.33	1	-	-
4965MHz	Pass	4.975G	4.976G	200k	30k	Average	4.97599G	-38.17	-28.67	-9.50	1	-	-
4965MHz	Pass	4.976G	4.985G	200k	30k	Average	4.97603G	-38.80	-28.79	-10.01	1	-	-
4965MHz	Pass	4.985G	5.015G	200k	30k	Average	5.00003G	-61.85	-48.77	-13.08	1	-	-
4965MHz	Pass	4.915G	4.945G	200k	30k	Average	4.92802G	-61.80	-50.26	-11.54	2	-	-
4965MHz	Pass	4.945G	4.954G	200k	30k	Average	4.95398G	-42.49	-30.28	-12.21	2	-	-
4965MHz	Pass	4.954G	4.955G	200k	30k	Average	4.95404G	-41.49	-29.88	-11.61	2	-	-
4965MHz	Pass	4.955G	4.956G	200k	30k	Average	4.95599G	-24.88	-10.35	-14.53	2	-	-
4965MHz	Pass	4.956G	4.974G	200k	30k	Average	4.967196G	-10.26	Inf	-Inf	2	Ref.PK	-
4965MHz	Pass	4.974G	4.975G	200k	30k	Average	4.97401G	-23.93	-10.33	-13.60	2	-	-
4965MHz	Pass	4.975G	4.976G	200k	30k	Average	4.97586G	-39.48	-28.89	-10.59	2	-	-
4965MHz	Pass	4.976G	4.985G	200k	30k	Average	4.97609G	-41.56	-30.34	-11.22	2	-	-
4965MHz	Pass	4.985G	5.015G	200k	30k	Average	4.99754G	-65.43	-50.26	-15.17	2	-	-
4980MHz	Pass	4.93G	4.96G	200k	30k	Average	4.94401G	-70.02	-50.34	-19.68	1	-	-
4980MHz	Pass	4.96G	4.969G	200k	30k	Average	4.96897G	-42.02	-30.36	-11.66	1	-	-
4980MHz	Pass	4.969G	4.97G	200k	30k	Average	4.96901G	-41.92	-30.27	-11.65	1	-	-
4980MHz	Pass	4.97G	4.971G	200k	30k	Average	4.971G	-22.72	-10.34	-12.38	1	-	-
4980MHz	Pass	4.971G	4.989G	200k	30k	Average	4.982196G	-10.34	Inf	-Inf	1	Ref.PK	-
4980MHz	Pass	4.989G	4.99G	200k	30k	Average	4.989G	-22.49	-10.35	-12.14	1	-	-
4980MHz	Pass	4.99G	4.991G	200k	30k	Average	4.99088G	-39.09	-29.14	-9.95	1	-	-
4980MHz	Pass	4.991G	5G	200k	30k	Average	4.99112G	-40.47	-30.44	-10.03	1	-	-
4980MHz	Pass	5G	5.03G	200k	30k	Average	5.02712G	-67.33	-50.34	-16.99	1	-	-
4980MHz	Pass	4.93G	4.96G	200k	30k	Average	4.94992G	-67.55	-49.94	-17.61	2	-	-
4980MHz	Pass	4.96G	4.969G	200k	30k	Average	4.9689G	-41.40	-30.03	-11.37	2	-	-
4980MHz	Pass	4.969G	4.97G	200k	30k	Average	4.96907G	-40.37	-29.25	-11.12	2	-	-
4980MHz	Pass	4.97G	4.971G	200k	30k	Average	4.971G	-23.23	-9.94	-13.29	2	-	-
4980MHz	Pass	4.971G	4.989G	200k	30k	Average	4.982178G	-9.94	Inf	-Inf	2	Ref.PK	-
4980MHz	Pass	4.989G	4.99G	200k	30k	Average	4.98901G	-22.22	-9.99	-12.23	2	-	-



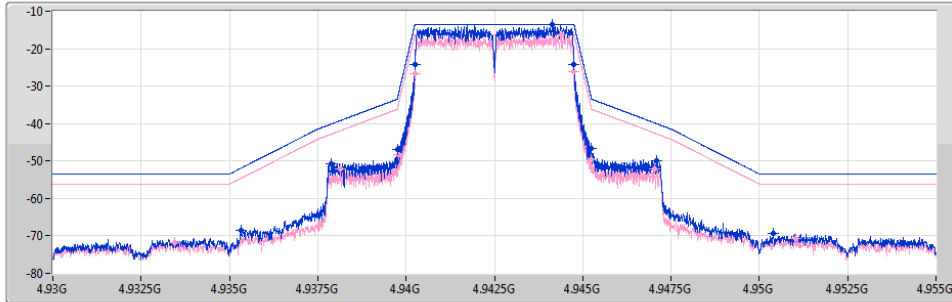
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
4980MHz	Pass	4.99G	4.991G	200k	30k	Average	4.99097G	-39.29	-29.60	-9.69	2	-	-
4980MHz	Pass	4.991G	5G	200k	30k	Average	4.99109G	-40.16	-30.02	-10.14	2	-	-
4980MHz	Pass	5G	5.03G	200k	30k	Average	5.02598G	-66.03	-49.94	-16.09	2	-	-

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

4942.5MHz

Mask

15/07/2019



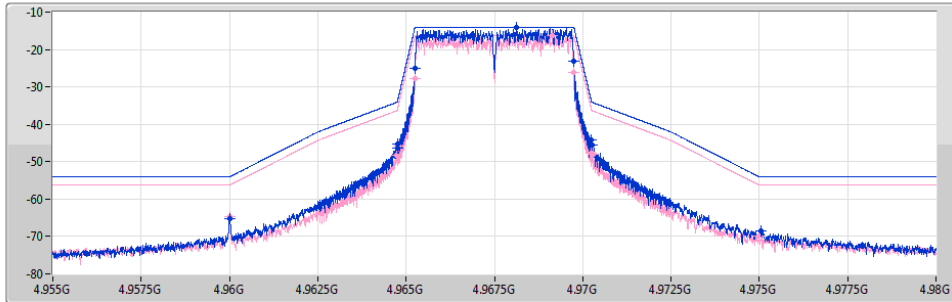
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
4.93G	4.9375G	50k	30k	Average	4.93533G	-68.48	-51.92	-16.56	1	-	-
4.9375G	4.93975G	50k	30k	Average	4.93789G	-50.69	-40.08	-10.61	1	-	-
4.93975G	4.94G	50k	30k	Average	4.93977G	-46.83	-32.60	-14.23	1	-	-
4.94G	4.94025G	50k	30k	Average	4.94025G	-24.19	-13.57	-10.62	1	-	-
4.94025G	4.94475G	50k	30k	Average	4.944143G	-13.48	Inf	-Inf	1	Ref.PK	-
4.94475G	4.945G	50k	30k	Average	4.94475G	-24.12	-13.55	-10.57	1	-	-
4.945G	4.94525G	50k	30k	Average	4.94523G	-46.53	-32.57	-13.96	1	-	-
4.94525G	4.9475G	50k	30k	Average	4.9471G	-50.05	-40.06	-9.99	1	-	-
4.9475G	4.955G	50k	30k	Average	4.95039G	-69.46	-53.48	-15.98	1	-	-
4.93G	4.9375G	50k	30k	Average	4.93345G	-71.72	-56.18	-15.54	2	-	-
4.9375G	4.93975G	50k	30k	Average	4.93814G	-52.01	-41.90	-10.11	2	-	-
4.93975G	4.94G	50k	30k	Average	4.93979G	-48.31	-34.71	-13.60	2	-	-
4.94G	4.94025G	50k	30k	Average	4.94025G	-26.68	-16.23	-10.45	2	-	-
4.94025G	4.94475G	50k	30k	Average	4.944386G	-16.18	Inf	-Inf	2	Ref.PK	-
4.94475G	4.945G	50k	30k	Average	4.94475G	-26.10	-16.18	-9.92	2	-	-
4.945G	4.94525G	50k	30k	Average	4.94525G	-49.57	-36.00	-13.57	2	-	-
4.94525G	4.9475G	50k	30k	Average	4.94702G	-52.10	-42.47	-9.63	2	-	-
4.9475G	4.955G	50k	30k	Average	4.95102G	-70.78	-56.18	-14.60	2	-	-

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

4967.5MHz

Mask

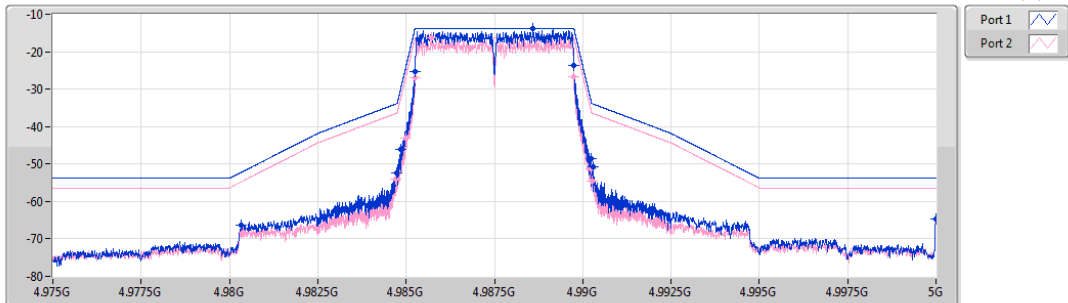
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F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
4.955G	4.9625G	50k	30k	Average	4.96001G	-65.23	-54.01	-11.22	1	-	-
4.9625G	4.96475G	50k	30k	Average	4.96475G	-46.35	-34.06	-12.29	1	-	-
4.96475G	4.965G	50k	30k	Average	4.96476G	-45.24	-33.65	-11.59	1	-	-
4.965G	4.96525G	50k	30k	Average	4.96525G	-25.00	-14.07	-10.93	1	-	-
4.96525G	4.96975G	50k	30k	Average	4.96813G	-14.06	Inf	-Inf	1	Ref.PK	-
4.96975G	4.97G	50k	30k	Average	4.96975G	-23.23	-14.24	-8.99	1	-	-
4.97G	4.97025G	50k	30k	Average	4.97023G	-44.28	-33.12	-11.16	1	-	-
4.97025G	4.9725G	50k	30k	Average	4.97027G	-45.48	-34.12	-11.36	1	-	-
4.9725G	4.98G	50k	30k	Average	4.97504G	-68.46	-54.06	-14.40	1	-	-
4.955G	4.9625G	50k	30k	Average	4.96G	-64.79	-56.31	-8.48	2	-	-
4.9625G	4.96475G	50k	30k	Average	4.96473G	-48.16	-36.40	-11.76	2	-	-
4.96475G	4.965G	50k	30k	Average	4.9648G	-45.89	-34.50	-11.39	2	-	-
4.965G	4.96525G	50k	30k	Average	4.96525G	-27.69	-16.49	-11.20	2	-	-
4.96525G	4.96975G	50k	30k	Average	4.969147G	-16.31	Inf	-Inf	2	Ref.PK	-
4.96975G	4.97G	50k	30k	Average	4.96975G	-26.01	-16.47	-9.54	2	-	-
4.97G	4.97025G	50k	30k	Average	4.97025G	-47.61	-36.27	-11.34	2	-	-
4.97025G	4.9725G	50k	30k	Average	4.9703G	-47.91	-36.47	-11.44	2	-	-
4.9725G	4.98G	50k	30k	Average	4.97499G	-69.88	-56.26	-13.62	2	-	-

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX
4987.5MHz

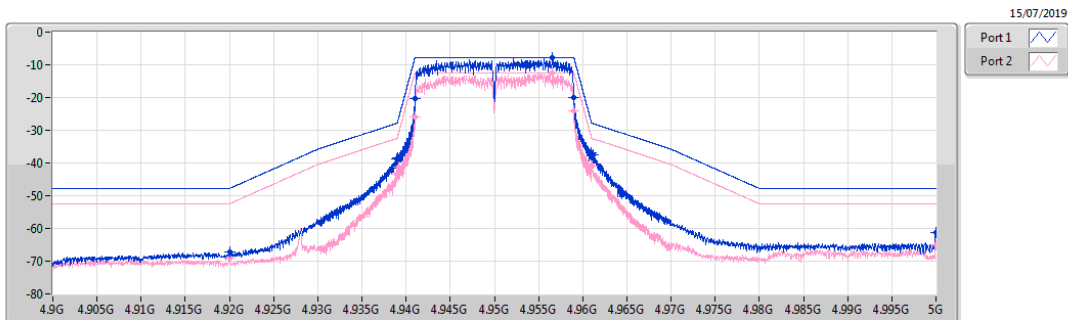
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F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
4.975G	4.9825G	50k	30k	Average	4.98033G	-66.25	-52.22	-14.03	1	-	-
4.9825G	4.98475G	50k	30k	Average	4.98474G	-52.25	-33.84	-18.41	1	-	-
4.98475G	4.985G	50k	30k	Average	4.98484G	-45.96	-30.18	-15.78	1	-	-
4.985G	4.98525G	50k	30k	Average	4.98525G	-25.20	-13.82	-11.38	1	-	-
4.98525G	4.98975G	50k	30k	Average	4.98594G	-13.82	Inf	-Inf	1	Ref.PK	-
4.98975G	4.99G	50k	30k	Average	4.98975G	-23.65	-13.86	-9.79	1	-	-
4.99G	4.99025G	50k	30k	Average	4.99023G	-48.64	-32.90	-15.74	1	-	-
4.99025G	4.9925G	50k	30k	Average	4.9903G	-50.86	-34.00	-16.86	1	-	-
4.9925G	5G	50k	30k	Average	5G	-64.73	-53.82	-10.91	1	-	-
4.975G	4.9825G	50k	30k	Average	4.98038G	-68.18	-54.55	-13.63	2	-	-
4.9825G	4.98475G	50k	30k	Average	4.98471G	-53.99	-36.50	-17.49	2	-	-
4.98475G	4.985G	50k	30k	Average	4.98498G	-43.13	-27.23	-15.90	2	-	-
4.985G	4.98525G	50k	30k	Average	4.98525G	-27.02	-16.40	-10.62	2	-	-
4.98525G	4.98975G	50k	30k	Average	4.985705G	-16.36	Inf	-Inf	2	Ref.PK	-
4.98975G	4.99G	50k	30k	Average	4.98975G	-26.70	-16.36	-10.34	2	-	-
4.99G	4.99025G	50k	30k	Average	4.99023G	-51.35	-35.74	-15.61	2	-	-
4.99025G	4.9925G	50k	30k	Average	4.99026G	-54.45	-36.38	-18.07	2	-	-
4.9925G	5G	50k	30k	Average	5G	-64.62	-56.36	-8.26	2	-	-

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX
4950MHz

Mask

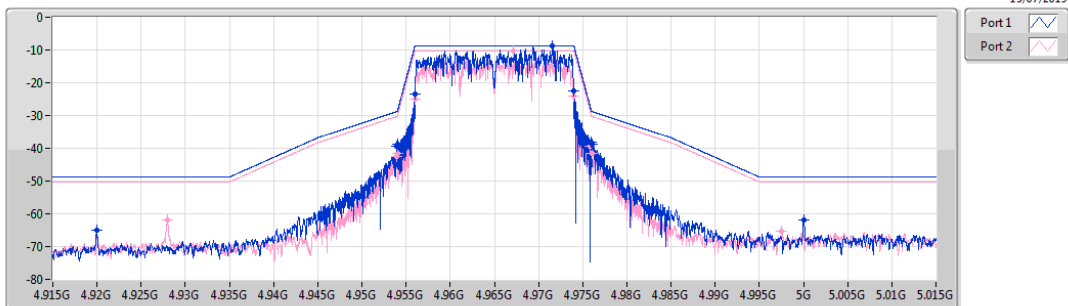


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
4.9G	4.93G	200k	30k	Average	4.92001G	-67.27	-47.78	-19.49	1	-	-
4.93G	4.939G	200k	30k	Average	4.93891G	-38.63	-27.87	-10.76	1	-	-
4.939G	4.94G	200k	30k	Average	4.93901G	-38.37	-27.71	-10.66	1	-	-
4.94G	4.941G	200k	30k	Average	4.941G	-20.41	-7.80	-12.61	1	-	-
4.941G	4.959G	200k	30k	Average	4.956588G	-7.79	Inf	-Inf	1	Ref.PK	-
4.959G	4.96G	200k	30k	Average	4.959G	-19.99	-7.79	-12.20	1	-	-
4.96G	4.961G	200k	30k	Average	4.96098G	-36.99	-27.59	-9.40	1	-	-
4.961G	4.97G	200k	30k	Average	4.96114G	-37.50	-27.91	-9.59	1	-	-
4.97G	5G	200k	30k	Average	5G	-61.23	-47.79	-13.44	1	-	-
4.9G	4.93G	200k	30k	Average	4.92001G	-68.93	-52.44	-16.49	2	-	-
4.93G	4.939G	200k	30k	Average	4.93894G	-43.43	-32.51	-10.92	2	-	-
4.939G	4.94G	200k	30k	Average	4.93918G	-41.10	-30.69	-10.41	2	-	-
4.94G	4.941G	200k	30k	Average	4.94099G	-25.90	-12.59	-13.31	2	-	-
4.941G	4.959G	200k	30k	Average	4.95657G	-12.45	Inf	-Inf	2	Ref.PK	-
4.959G	4.96G	200k	30k	Average	4.959G	-24.12	-12.49	-11.63	2	-	-
4.96G	4.961G	200k	30k	Average	4.961G	-41.01	-32.43	-8.58	2	-	-
4.961G	4.97G	200k	30k	Average	4.96109G	-41.04	-32.53	-8.51	2	-	-
4.97G	5G	200k	30k	Average	4.99997G	-65.15	-52.45	-12.70	2	-	-

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

Mask

4965MHz

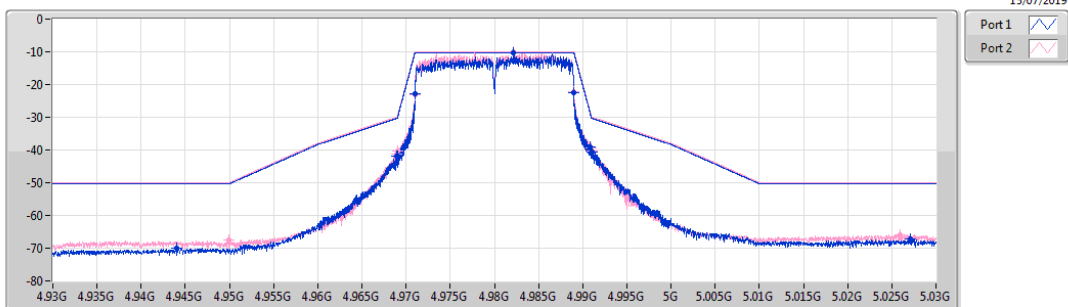


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
4.915G	4.945G	200k	30k	Average	4.91995G	-65.07	-48.77	-16.30	1	-	-
4.945G	4.954G	200k	30k	Average	4.95398G	-39.24	-28.79	-10.45	1	-	-
4.954G	4.955G	200k	30k	Average	4.9541G	-38.74	-27.81	-10.93	1	-	-
4.955G	4.956G	200k	30k	Average	4.95599G	-23.50	-8.83	-14.67	1	-	-
4.956G	4.974G	200k	30k	Average	4.97157G	-8.77	Inf	-Inf	1	Ref.PK	-
4.974G	4.975G	200k	30k	Average	4.97403G	-22.36	-9.03	-13.33	1	-	-
4.975G	4.976G	200k	30k	Average	4.97599G	-38.17	-28.67	-9.50	1	-	-
4.976G	4.985G	200k	30k	Average	4.97603G	-38.80	-28.79	-10.01	1	-	-
4.985G	5.015G	200k	30k	Average	5.00003G	-61.85	-48.77	-13.08	1	-	-
4.915G	4.945G	200k	30k	Average	4.92802G	-61.80	-50.26	-11.54	2	-	-
4.945G	4.954G	200k	30k	Average	4.95398G	-42.49	-30.28	-12.21	2	-	-
4.954G	4.955G	200k	30k	Average	4.95404G	-41.49	-29.88	-11.61	2	-	-
4.955G	4.956G	200k	30k	Average	4.95599G	-24.88	-10.35	-14.53	2	-	-
4.956G	4.974G	200k	30k	Average	4.967196G	-10.26	Inf	-Inf	2	Ref.PK	-
4.974G	4.975G	200k	30k	Average	4.97401G	-23.93	-10.33	-13.60	2	-	-
4.975G	4.976G	200k	30k	Average	4.97586G	-39.48	-28.89	-10.59	2	-	-
4.976G	4.985G	200k	30k	Average	4.97609G	-41.56	-30.34	-11.22	2	-	-
4.985G	5.015G	200k	30k	Average	4.99754G	-65.43	-50.26	-15.17	2	-	-

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

Mask

4980MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
4.93G	4.96G	200k	30k	Average	4.94401G	-70.02	-50.34	-19.68	1	-	-
4.96G	4.969G	200k	30k	Average	4.96897G	-42.02	-30.36	-11.66	1	-	-
4.969G	4.97G	200k	30k	Average	4.96901G	-41.92	-30.27	-11.65	1	-	-
4.97G	4.971G	200k	30k	Average	4.971G	-22.72	-10.34	-12.38	1	-	-
4.971G	4.989G	200k	30k	Average	4.982196G	-10.34	Inf	-Inf	1	Ref.PK	-
4.989G	4.99G	200k	30k	Average	4.989G	-22.49	-10.35	-12.14	1	-	-
4.99G	4.991G	200k	30k	Average	4.99088G	-39.09	-29.14	-9.95	1	-	-
4.991G	5G	200k	30k	Average	4.99112G	-40.47	-30.44	-10.03	1	-	-
5G	5.03G	200k	30k	Average	5.02712G	-67.33	-50.34	-16.99	1	-	-
4.93G	4.96G	200k	30k	Average	4.94992G	-67.55	-49.94	-17.61	2	-	-
4.96G	4.969G	200k	30k	Average	4.9689G	-41.40	-30.03	-11.37	2	-	-
4.969G	4.97G	200k	30k	Average	4.96907G	-40.37	-29.25	-11.12	2	-	-
4.97G	4.971G	200k	30k	Average	4.971G	-23.23	-9.94	-13.29	2	-	-
4.971G	4.989G	200k	30k	Average	4.982178G	-9.94	Inf	-Inf	2	Ref.PK	-
4.989G	4.99G	200k	30k	Average	4.98901G	-22.22	-9.99	-12.23	2	-	-
4.99G	4.991G	200k	30k	Average	4.99097G	-39.29	-29.60	-9.69	2	-	-
4.991G	5G	200k	30k	Average	4.99109G	-40.16	-30.02	-10.14	2	-	-
5G	5.03G	200k	30k	Average	5.02598G	-66.03	-49.94	-16.09	2	-	-



Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
4.94-4.99GHz	-	-	-	-	-	-	-	-	-	-	-	-
OFDM_5MHz_Nss2_2TX	Pass	4.95G	7.2G	1M	3M	RMS	6.59025G	-40.24	-38.53	-1.71	-	-
OFDM_20MHz_Nss2_2TX	Pass	4.995G	7.2G	1M	3M	RMS	6.62009G	-41.15	-41.14	-0.01	-	-

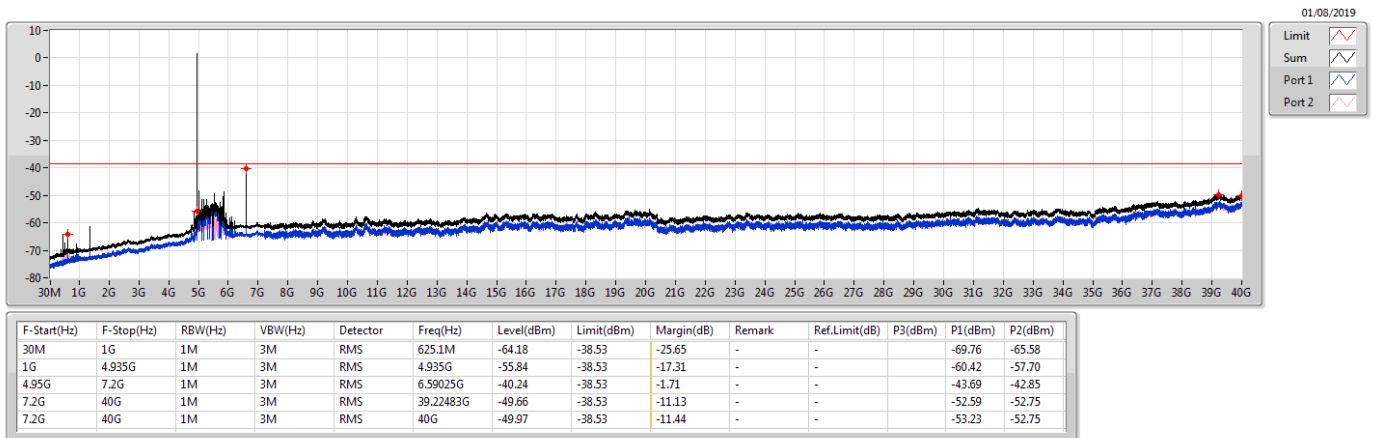
Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
4.94-4.99GHz_OFDM_5MHz_Nss2_2TX	-	-	-	-	-	-	-	-	-	-	-	-
4942.5MHz	Pass	30M	1G	1M	3M	RMS	625.1M	-64.18	-38.53	-25.65	-	-
4942.5MHz	Pass	1G	4.935G	1M	3M	RMS	4.935G	-55.84	-38.53	-17.31	-	-
4942.5MHz	Pass	4.95G	7.2G	1M	3M	RMS	6.59025G	-40.24	-38.53	-1.71	-	-
4942.5MHz	Pass	7.2G	40G	1M	3M	RMS	39.22483G	-49.66	-38.53	-11.13	-	-
4942.5MHz	Pass	7.2G	40G	1M	3M	RMS	40G	-49.97	-38.53	-11.44	-	-
4967.5MHz	Pass	30M	1G	1M	3M	RMS	624.85M	-63.28	-38.97	-24.31	-	-
4967.5MHz	Pass	1G	4.96G	1M	3M	RMS	4.92832G	-57.53	-38.97	-18.56	-	-
4967.5MHz	Pass	4.975G	7.2G	1M	3M	RMS	6.62373G	-43.55	-38.97	-4.58	-	-
4967.5MHz	Pass	7.2G	40G	1M	3M	RMS	39.22811G	-49.42	-38.97	-10.45	-	-
4967.5MHz	Pass	7.2G	40G	1M	3M	RMS	40G	-49.74	-38.97	-10.77	-	-
4987.5MHz	Pass	30M	1G	1M	3M	RMS	624.85M	-63.58	-38.99	-24.59	-	-
4987.5MHz	Pass	1G	4.98G	1M	3M	RMS	4.98G	-54.44	-38.99	-15.45	-	-
4987.5MHz	Pass	4.995G	7.2G	1M	3M	RMS	6.6504G	-45.13	-38.99	-6.14	-	-
4987.5MHz	Pass	7.2G	40G	1M	3M	RMS	39.99781G	-49.49	-38.99	-10.50	-	-
4987.5MHz	Pass	7.2G	40G	1M	3M	RMS	40G	-50.18	-38.99	-11.19	-	-
4.94-4.99GHz_OFDM_20MHz_Nss2_2TX	-	-	-	-	-	-	-	-	-	-	-	-
4950MHz	Pass	30M	1G	1M	3M	RMS	625.1M	-64.61	-40.76	-23.85	-	-
4950MHz	Pass	1G	4.92G	1M	3M	RMS	4.87394G	-54.34	-40.76	-13.58	-	-
4950MHz	Pass	4.98G	7.2G	1M	3M	RMS	6.60005G	-41.08	-40.76	-0.32	-	-
4950MHz	Pass	7.2G	40G	1M	3M	RMS	39.16688G	-49.69	-40.76	-8.93	-	-
4950MHz	Pass	7.2G	40G	1M	3M	RMS	40G	-50.92	-40.76	-10.16	-	-
4965MHz	Pass	30M	1G	1M	3M	RMS	625.1M	-64.29	-41.14	-23.15	-	-
4965MHz	Pass	1G	4.935G	1M	3M	RMS	4.92811G	-55.32	-41.14	-14.18	-	-
4965MHz	Pass	4.995G	7.2G	1M	3M	RMS	6.62009G	-41.15	-41.14	-0.01	-	-
4965MHz	Pass	7.2G	40G	1M	3M	RMS	39.20843G	-49.52	-41.14	-8.38	-	-
4965MHz	Pass	7.2G	40G	1M	3M	RMS	40G	-50.75	-41.14	-9.61	-	-
4980MHz	Pass	30M	1G	1M	3M	RMS	624.85M	-63.88	-41.15	-22.73	-	-
4980MHz	Pass	1G	4.95G	1M	3M	RMS	4.90606G	-55.94	-41.15	-14.79	-	-
4980MHz	Pass	5.01G	7.2G	1M	3M	RMS	6.63991G	-42.57	-41.15	-1.42	-	-
4980MHz	Pass	7.2G	40G	1M	3M	RMS	39.29699G	-49.46	-41.15	-8.31	-	-
4980MHz	Pass	7.2G	40G	1M	3M	RMS	40G	-50.33	-41.15	-9.18	-	-

4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

CSE-TX-Sum

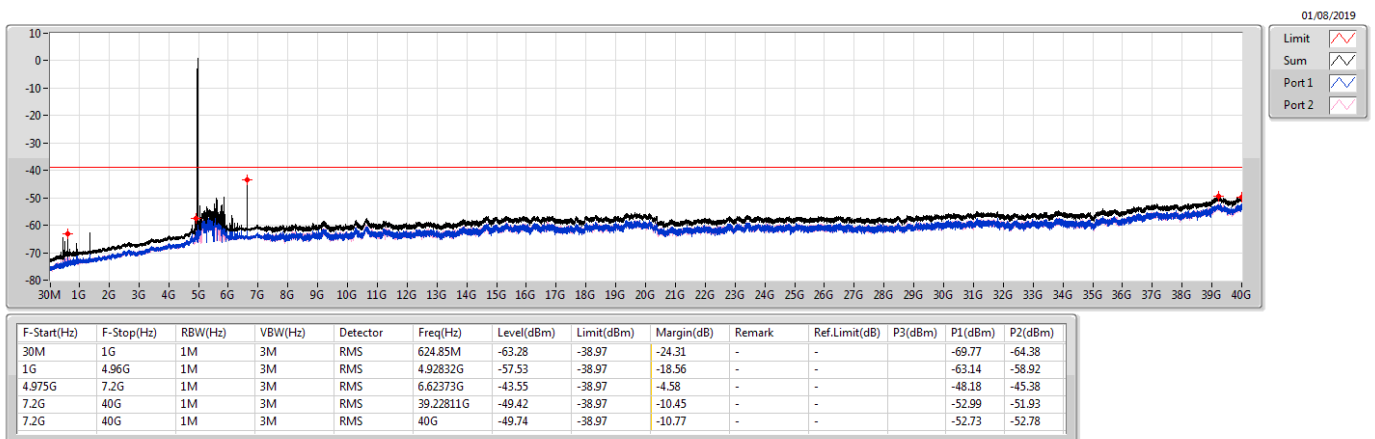
4942.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

CSE-TX-Sum

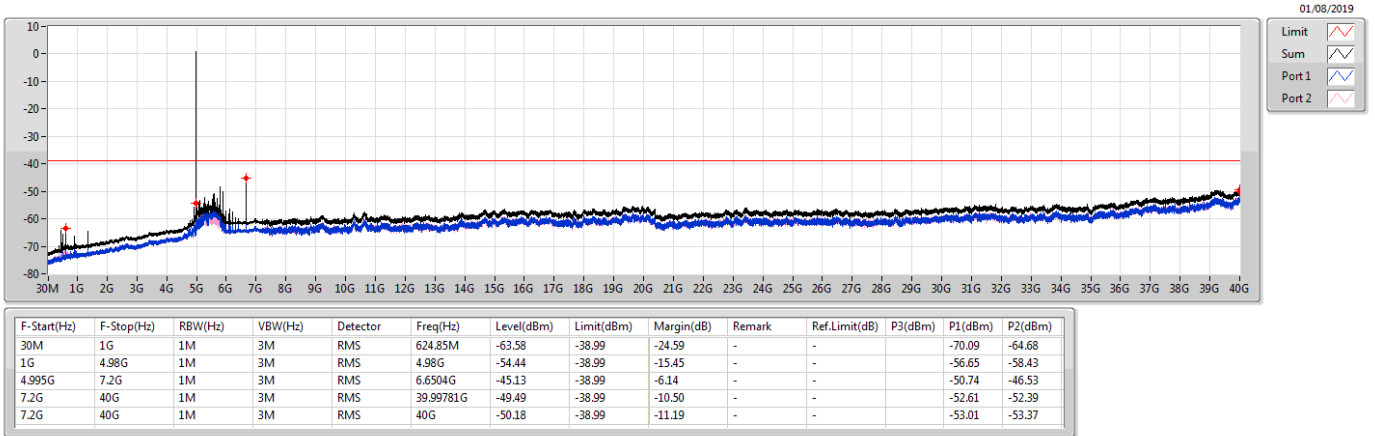
4967.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

CSE-TX-Sum

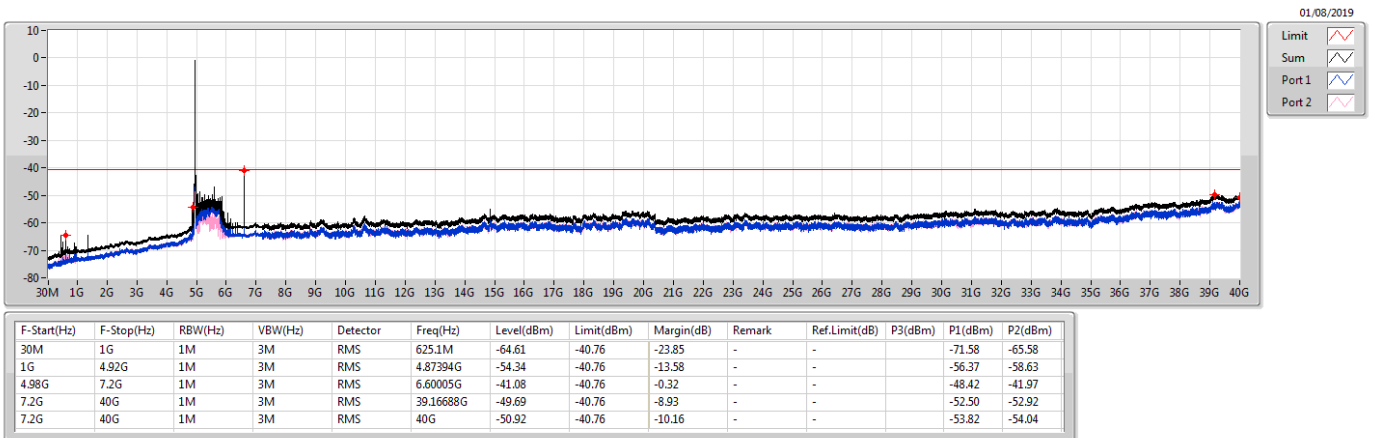
4987.5MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

CSE-TX-Sum

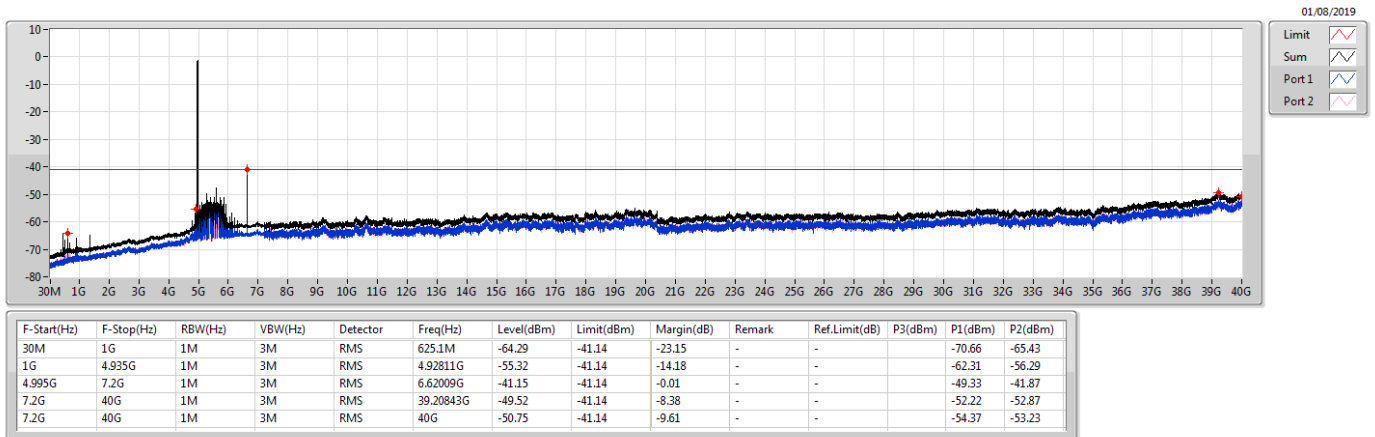
4950MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

CSE-TX-Sum

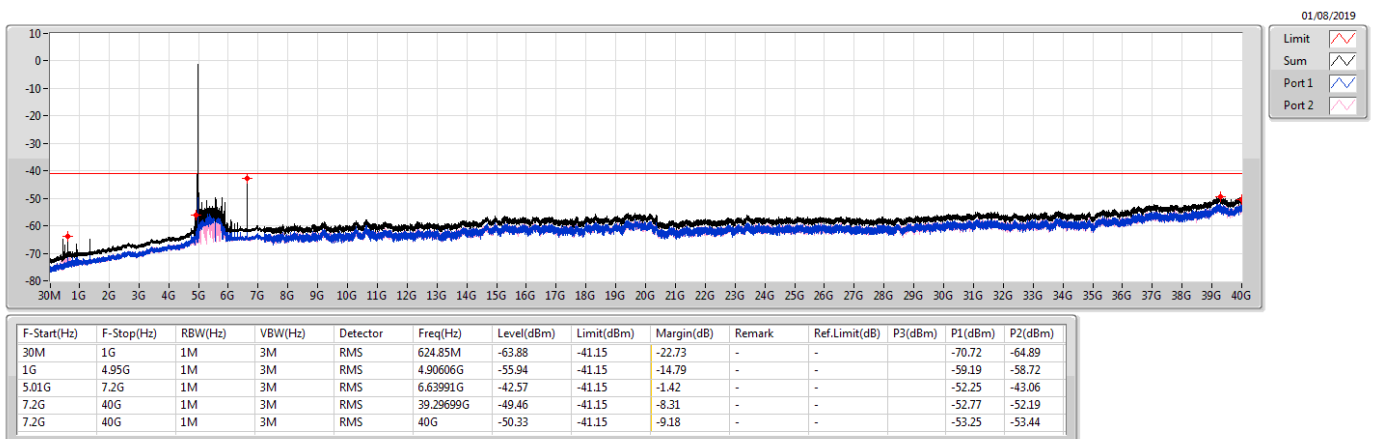
4965MHz



4.94-4.99GHz_OFDM_5MHz_Nss2_2TX

CSE-TX-Sum

4980MHz





Summary

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
4.94-4.99GHz	-	-	-	-	-	-	-	-	-
OFDM_5MHz_Nss2_2TX	Pass	4.9675G	4.967542G	4.965312G	4.969771G	8.397	4.94G,4.99G,Inf	1	-
OFDM_20MHz_Nss2_2TX	Pass	4.965G	4.965073G	4.956279G	4.973868G	14.726	4.94G,4.99G,Inf	1	-

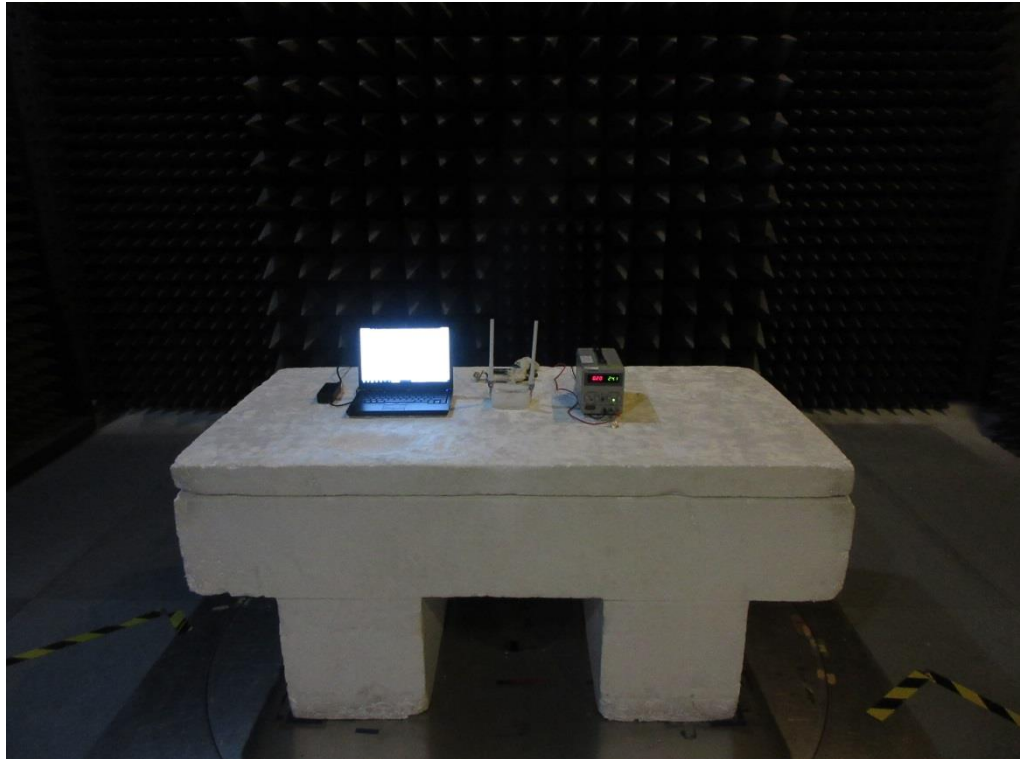
Result

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
4.94-4.99GHz_OFDM_5MHz_Nss2_2TX	-	-	-	-	-	-	-	-	-
4967.5MHz_-30°C	Pass	4.9675G	4.967539G	4.965313G	4.969765G	7.831	4.94G,4.99G,Inf	1	-
4967.5MHz_-20°C	Pass	4.9675G	4.967538G	4.965314G	4.969763G	7.737	4.94G,4.99G,Inf	1	-
4967.5MHz_-10°C	Pass	4.9675G	4.967542G	4.965312G	4.969771G	8.397	4.94G,4.99G,Inf	1	-
4967.5MHz_0°C	Pass	4.9675G	4.967524G	4.965298G	4.96975G	4.812	4.94G,4.99G,Inf	1	-
4967.5MHz_10°C	Pass	4.9675G	4.967517G	4.96529G	4.969745G	3.491	4.94G,4.99G,Inf	1	-
4967.5MHz_20°C	Pass	4.9675G	4.96751G	4.965282G	4.969738G	2.076	4.94G,4.99G,Inf	1	-
4967.5MHz_30°C	Pass	4.9675G	4.967486G	4.965262G	4.969711G	-2.736	4.94G,4.99G,Inf	1	-
4967.5MHz_40°C	Pass	4.9675G	4.967488G	4.965262G	4.969714G	-2.453	4.94G,4.99G,Inf	1	-
4967.5MHz_50°C	Pass	4.9675G	4.967496G	4.96527G	4.969722G	-0.849	4.94G,4.99G,Inf	1	-
4967.5MHz_60°C	Pass	4.9675G	4.967526G	4.965301G	4.969752G	5.284	4.94G,4.99G,Inf	1	-
4967.5MHz_27.6V	Pass	4.9675G	4.967507G	4.965279G	4.969736G	1.51	4.94G,4.99G,Inf	1	-
4967.5MHz_24V	Pass	4.9675G	4.967506G	4.965279G	4.969732G	1.132	4.94G,4.99G,Inf	1	-
4967.5MHz_20.4V	Pass	4.9675G	4.967505G	4.965276G	4.969734G	0.944	4.94G,4.99G,Inf	1	-
4.94-4.99GHz_OFDM_20MHz_Nss2_2TX	-	-	-	-	-	-	-	-	-
4965MHz_-30°C	Pass	4.965G	4.965056G	4.95626G	4.973853G	11.328	4.94G,4.99G,Inf	1	-
4965MHz_-20°C	Pass	4.965G	4.965073G	4.956279G	4.973868G	14.726	4.94G,4.99G,Inf	1	-
4965MHz_-10°C	Pass	4.965G	4.965062G	4.95626G	4.973864G	12.461	4.94G,4.99G,Inf	1	-
4965MHz_0°C	Pass	4.965G	4.965049G	4.956249G	4.973849G	9.818	4.94G,4.99G,Inf	1	-
4965MHz_10°C	Pass	4.965G	4.965032G	4.956245G	4.973819G	6.419	4.94G,4.99G,Inf	1	-
4965MHz_20°C	Pass	4.965G	4.96503G	4.95623G	4.97383G	6.042	4.94G,4.99G,Inf	1	-
4965MHz_30°C	Pass	4.965G	4.965017G	4.956245G	4.973789G	3.398	4.94G,4.99G,Inf	1	-
4965MHz_40°C	Pass	4.965G	4.964996G	4.956177G	4.973815G	-0.755	4.94G,4.99G,Inf	1	-
4965MHz_50°C	Pass	4.965G	4.965002G	4.956215G	4.973789G	0.378	4.94G,4.99G,Inf	1	-
4965MHz_60°C	Pass	4.965G	4.965032G	4.956237G	4.973826G	6.419	4.94G,4.99G,Inf	1	-
4965MHz_27.6V	Pass	4.965G	4.965052G	4.956275G	4.97383G	10.573	4.94G,4.99G,Inf	1	-
4965MHz_24V	Pass	4.965G	4.965019G	4.956211G	4.973826G	3.776	4.94G,4.99G,Inf	1	-
4965MHz_20.4V	Pass	4.965G	4.965052G	4.956249G	4.973856G	10.573	4.94G,4.99G,Inf	1	-

1. Photographs of Radiated Emissions Test Configuration

For radiated emissions 30MHz~1GHz

Front view

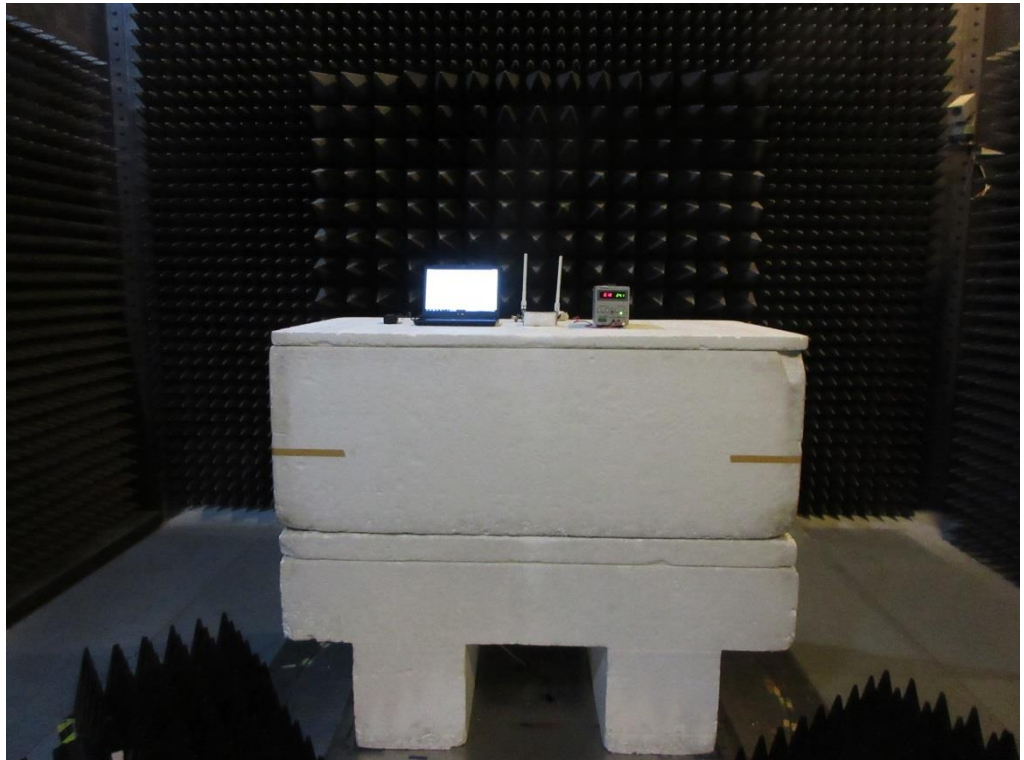


Rear view



For radiated emissions above 1GHz

Front view



Rear view



————THE END————