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FCC PART 15B SCANNING RECEIVER TEST REPORT

Applicant	AOR USA INC.
Address	20655 SOUTH WESTERN AVENUE SUITE 112 TORRANCE CA USA 90501
FCC ID:	NVJARDV10
Model Number	AR-DV10
Product Description	SCANNING RECEIVER
Final Test Date	4/10/2018
Tested By	Tim Royer
Approved By	Franklin Rose
Test Results	☒ PASS ☐ FAIL

Report Number	Version Number	Description	Issue Date
467AUT18TestReport_FCC	Rev1	Initial Issue	04/10/2018

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT
THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.

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Applicant: AOR USA INC.

FCC ID: NVJARDV10

Report: 467AUT18TestReport_FCC_Rev1

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GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

Summary

The device under test does:

- ☒ Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- ☐ Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669



Sr. EMC Engineer
EMC-003838-NE



Tested by:

Name and Title: Tim Royer, Project Manager/Testing Engineer

Date: 04/11/2018



Reviewed and Approved by:

Name and Title: Franklin Rose, Project Manager/EMC Testing Technician

Date: 04/12/2018

GENERAL INFORMATION

The test results relate only to the items tested.	
EUT Description	SCANNING RECEIVER
FCC ID	NVJARDV10
Model Number	AR-DV10
Operating Range	100 kHz – 1300 MHz
Test Range	30 MHz – 960 MHz*
Receiver Circuit Type	Superheterodyne
Lowest Internal Frequency	> 9 kHz
Antenna Connector	Reverse SMA
EUT Power Source	☐ 110–120Vac/50– 60Hz
	☐ 13.8 VDC Nominal (Optional)
	☒ Battery Operated Exclusively
Test Item	☐ Prototype
	☒ Pre-Production
	☐ Production
Modification to EUT	None
Test Site	Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070

***NOTE: 15.101(b)** Receivers operating above 960 MHz or below 30 MHz, except for radar detectors and CB receivers, are exempt from complying with the technical provisions of this part but are subject to §15.5.

REPORT SUMMARY

Regulatory Standard	CFR Title 47 FCC Rule part 15B § 15.109, 15.111, & 15.121
Test Procedures	FCC Part 15.31, 15.33, 15.35 ANSI C63.4 – 2014
Operational Modes	Stopped at the Lowest, middles, and highest frequency of each frequency range. In addition, scanning all frequencies of tuning range.
Test Frequencies	Low: 30 MHz
	Middle: 100 MHz, 500 MHz
	High: 960 MHz
	Scan: 30 MHz to 960 MHz
Environmental Condition in the laboratory	Temperature: 24-26°C Relative humidity: 50-65% Barometric Pressure: 1021 mb
Deviation from the standard / procedure	No deviation

RESULTS SUMMARY

Test Item	FCC Rule Part	Result
Radiated Spurious Emissions	15.109	Pass
15.111 Receiver Conducted Power	15.111(a)	NA ⁽¹⁾
15.121 38 dB Rejection	38 dB	NA ⁽²⁾
Powerline Conducted Emissions	15.107	Pass

Notes:

- 1) EUT is not intended for connection with AC Mains.
- 2) Manufacturer provided attestation letter, no test required.

RADIATED SPURIOUS EMISSIONS

Rule Part No.: FCC Part 15 Subpart B1

Requirements: FCC Part 15.109(a) Radiated Emission Limit

Class B Field Strength Limits @ 3 Meters	
Frequency (MHz)	Level (dBuV / m)
30 – 88	40.0
80 – 216	43.5
216 – 960	46.0
Above 960	54.0

FCC Part 15.109(f) Radiated Emission Limit

For a receiver which employs terminals for the connection of an external receiving antenna, the receiver shall be tested to demonstrate compliance with the provisions of this section with an antenna connected to the antenna terminals unless the antenna conducted power is measured as specified in §15.111(a).

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements

FCC Part 15.35(a) Measurement detector functions and bandwidths

ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz

§ 6.2 Operating conditions

§ 6.3 Arrangement of EUT

§ 8.3.1 Exploratory radiated emissions measurements

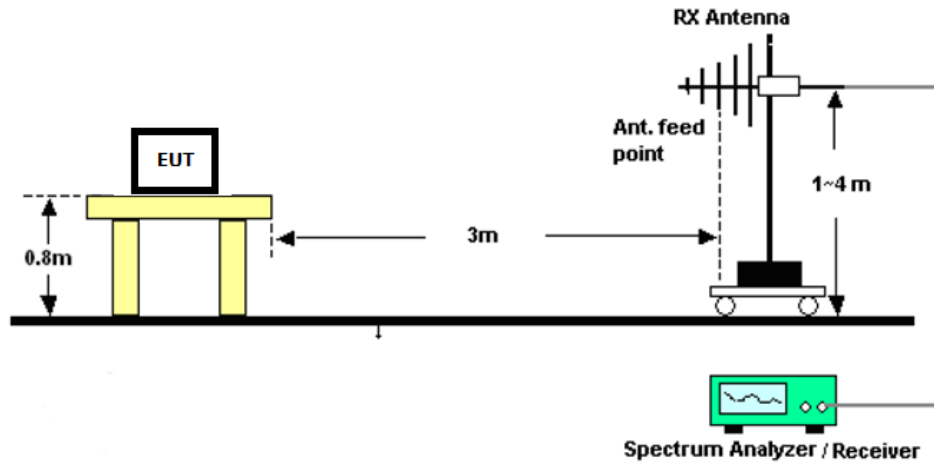
§ 8.3.2 Final radiated emission measurements

Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped.

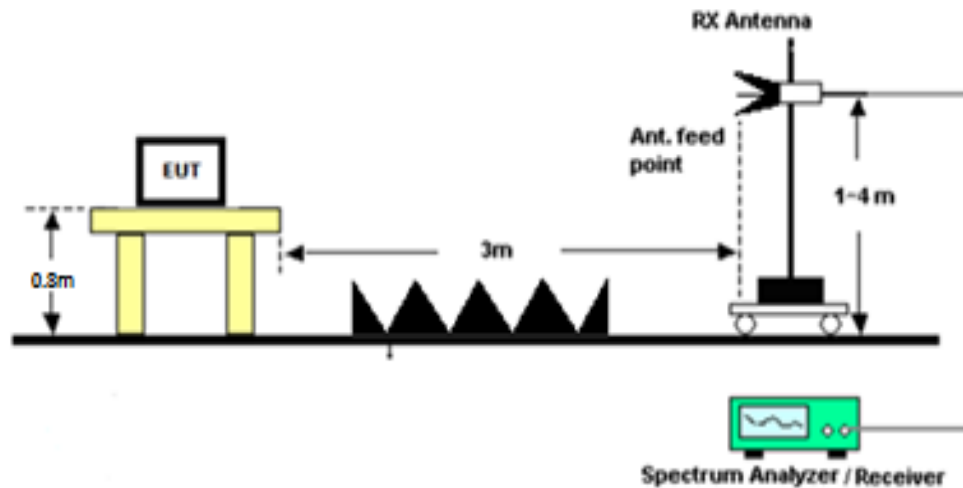
RADIATED SPURIOUS EMISSIONS

Setup:

Emissions 30 – 1000 MHz



Emissions above 1 GHz



RADIATED SPURIOUS EMISSIONS

ANALOGUE Scanning Receiver Function, Scanned 30 MHz to 200 MHz

Test Data: Field Strength Plot, Horiz. Polarity



10.Apr 18 12:05

Test Spec CISPR 22 Radiated Disturbances

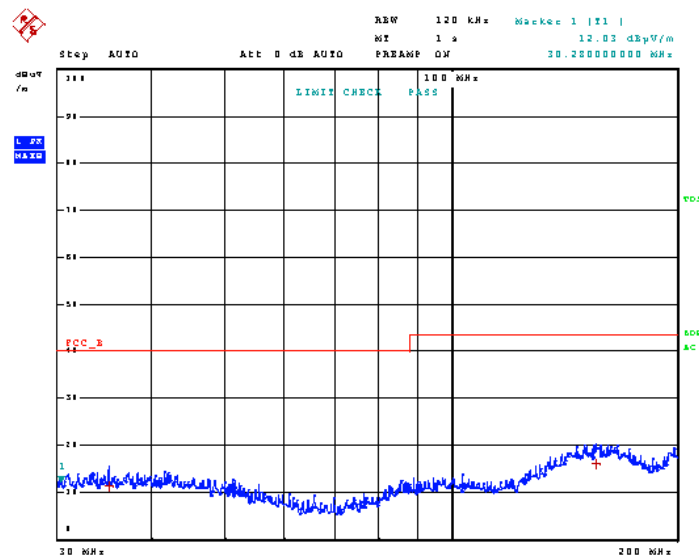
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

10 Apr 18 12:05

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	35.04000000 MHz	11.30	Quasi Peak	-28.70
1	155.72000000 MHz	16.17	Quasi Peak	-27.33

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



10.Apr 18 12:04

Test Spec CISPR 22 Radiated Disturbances

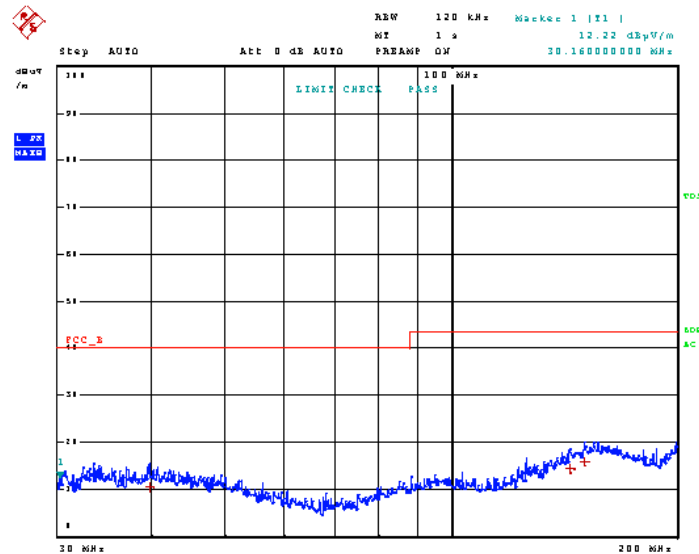
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

10 Apr 18 12:04

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	39.64000000 MHz	10.47	Quasi Peak	-29.53
1	144.12000000 MHz	14.45	Quasi Peak	-29.05
1	150.92000000 MHz	15.77	Quasi Peak	-27.73

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RADIATED SPURIOUS EMISSIONS

ANALOGUE Receiver Band, Scanned 30 MHz to 200 MHz

Test Data: Middle of Band 30 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 11:34

Test Spec: CISPR 22 Radiated Disturbances

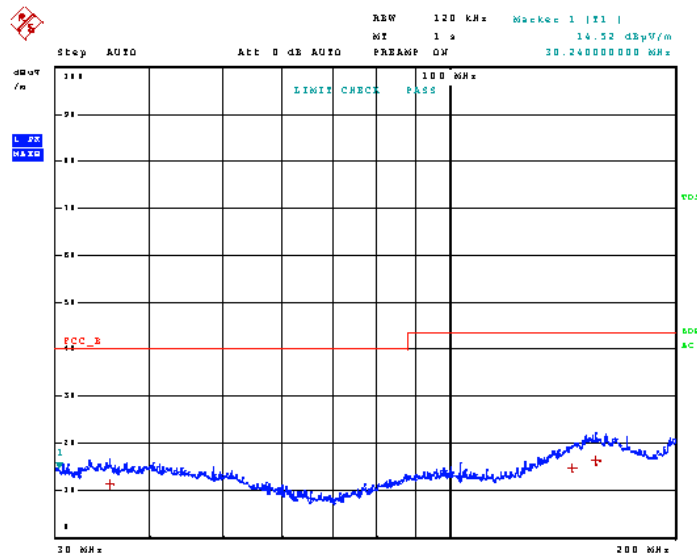
Polarity:

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 30 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 11:34

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	35.280000000 MHz	11.25	Quasi Peak	-28.75
1	145.680000000 MHz	14.82	Quasi Peak	-28.68
1	156.640000000 MHz	16.19	Quasi Peak	-27.31

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 30 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 11:38

Test Spec CISPR 22 Radiated Disturbances

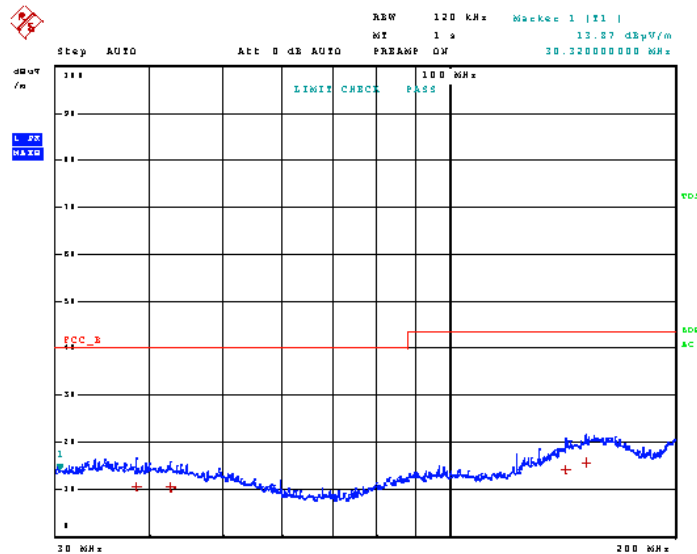
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 30 MHz Field Strength Table, Vert. Polarity

10.Apr 18 11:38

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	38.32000000 MHz	10.53	Quasi Peak	-29.47
1	42.52000000 MHz	10.45	Quasi Peak	-29.55
1	143.28000000 MHz	14.15	Quasi Peak	-29.35
1	151.96000000 MHz	15.72	Quasi Peak	-27.78

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 11:45

Test Spec CISPR 22 Radiated Disturbances

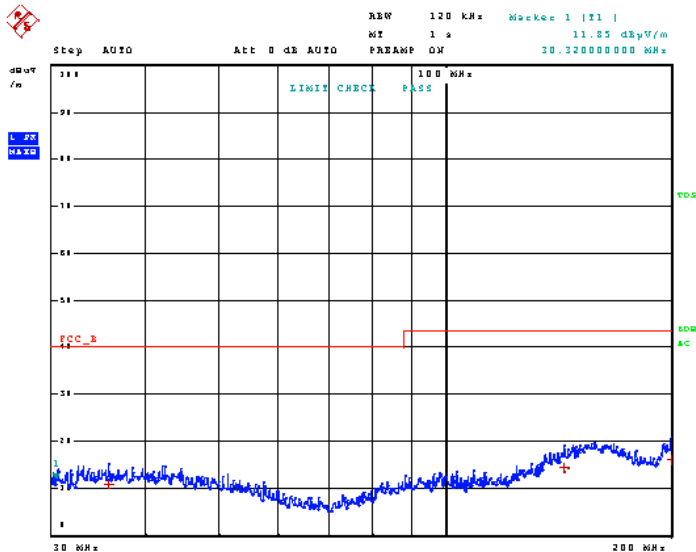
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 11:45

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	35.680000000 MHz	10.80	Quasi Peak	-29.20
1	144.080000000 MHz	14.43	Quasi Peak	-29.07
1	199.720000000 MHz	16.03	Quasi Peak	-27.47

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 11:46

Test Spec CISPR 22 Radiated Disturbances

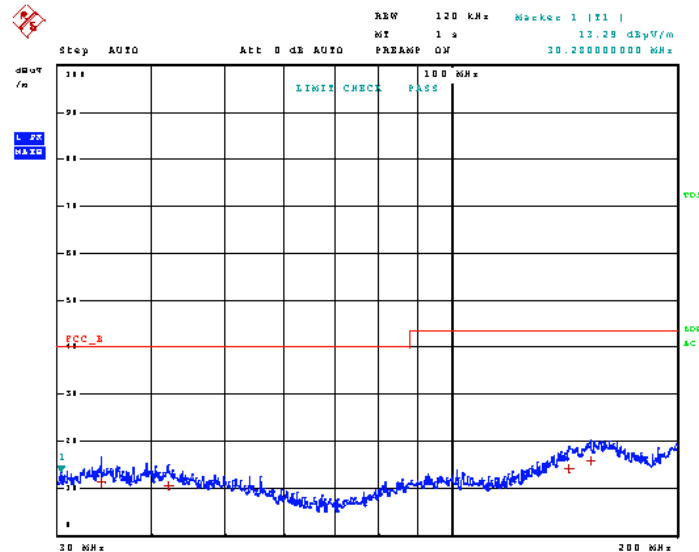
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Vert. Polarity

10 Apr 18 11:46

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	34.20000000 MHz	11.17	Quasi Peak	-28.83
1	41.96000000 MHz	10.60	Quasi Peak	-29.40
1	143.48000000 MHz	14.25	Quasi Peak	-29.25
1	153.48000000 MHz	15.02	Quasi Peak	-27.68

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 11:48

Test Spec CISPR 22 Radiated Disturbances

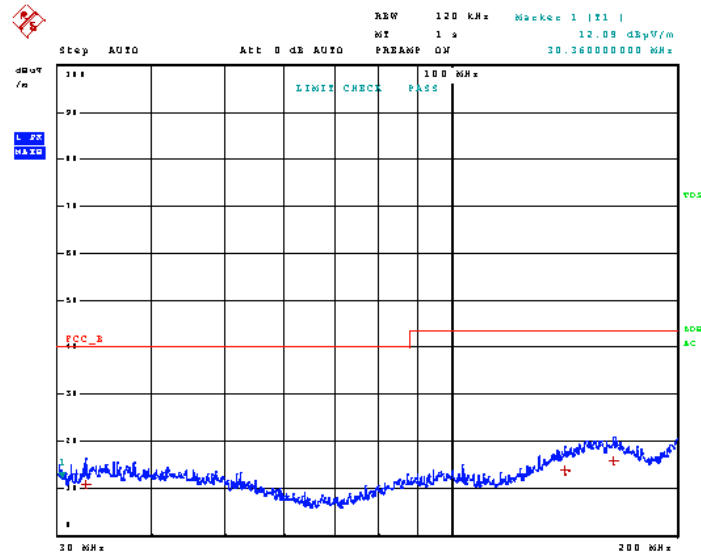
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 11:48

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	32.60000000 MHz	10.85	Quasi Peak	-29.15
1	141.76000000 MHz	13.71	Quasi Peak	-29.79
1	164.72000000 MHz	15.87	Quasi Peak	-27.63

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 11:47

Test Spec CISPR 22 Radiated Disturbances

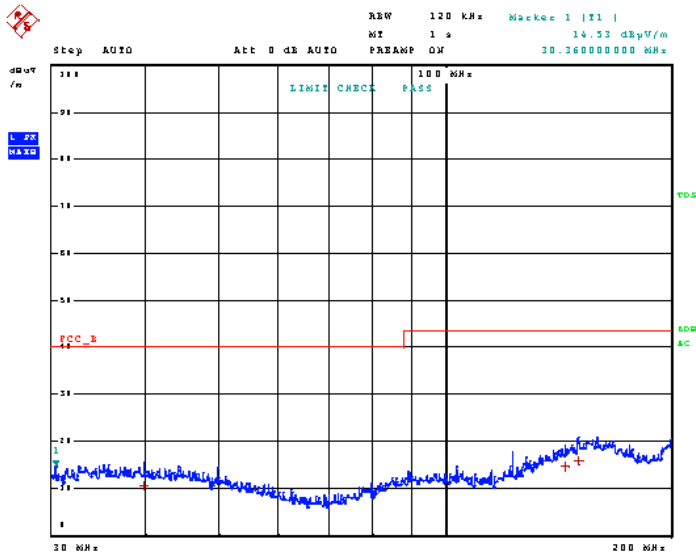
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Vert. Polarity

10 Apr 18 11:47

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	39.68000000 MHz	10.57	Quasi Peak	-29.43
1	144.36000000 MHz	14.54	Quasi Peak	-28.96
1	150.88000000 MHz	15.79	Quasi Peak	-27.71

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 11:49

Test Spec CISPR 22 Radiated Disturbances

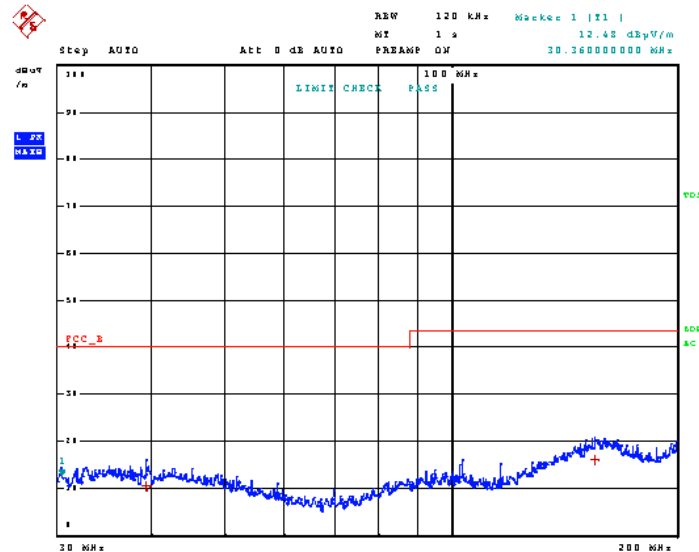
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 11:49

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 2

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	39.28000000 MHz	10.38	Quasi Peak	-29.62
1	155.24000000 MHz	16.13	Quasi Peak	-27.37

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 11:50

Test Spec CISPR 22 Radiated Disturbances

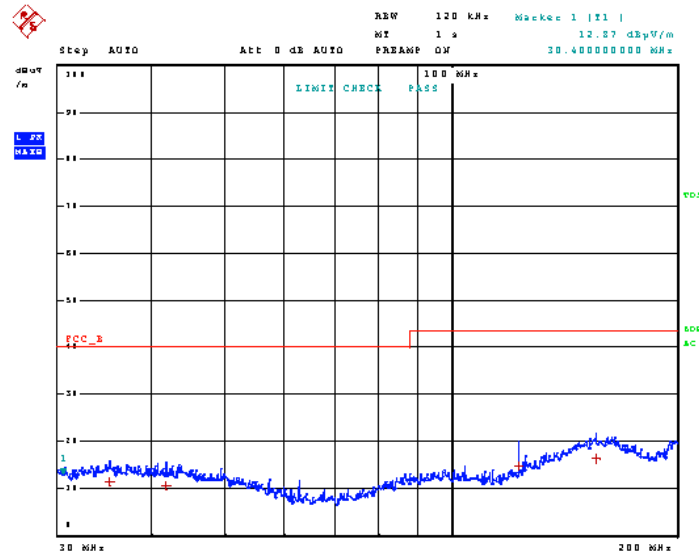
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Vert. Polarity

10 Apr 18 11:50

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	35.120000000 MHz	11.39	Quasi Peak	-28.61
1	41.760000000 MHz	10.66	Quasi Peak	-29.34
1	122.880000000 MHz	14.88	Quasi Peak	-28.62
1	156.000000000 MHz	16.19	Quasi Peak	-27.31

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

ANALOGUE Scanning Receiver Function, Scanned 200 MHz to 1 GHz

Test Data: Field Strength Plot, Horiz. Polarity



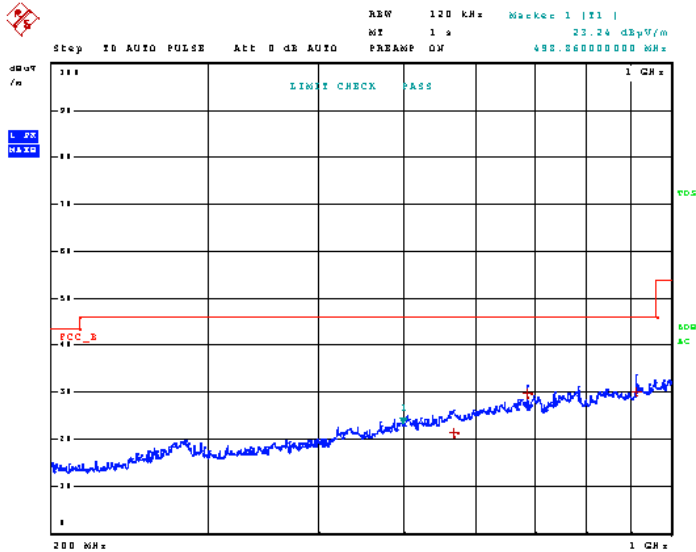
10.Apr 18 12:07

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

10 Apr 18 12:07

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	568.97000000 MHz	21.28	Quasi Peak	-24.72
1	688.13000000 MHz	29.82	Quasi Peak	-16.18
1	913.76000000 MHz	30.09	Quasi Peak	-15.91

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



10.Apr 18 12:07

Test Spec CISPR 22 Radiated Disturbances

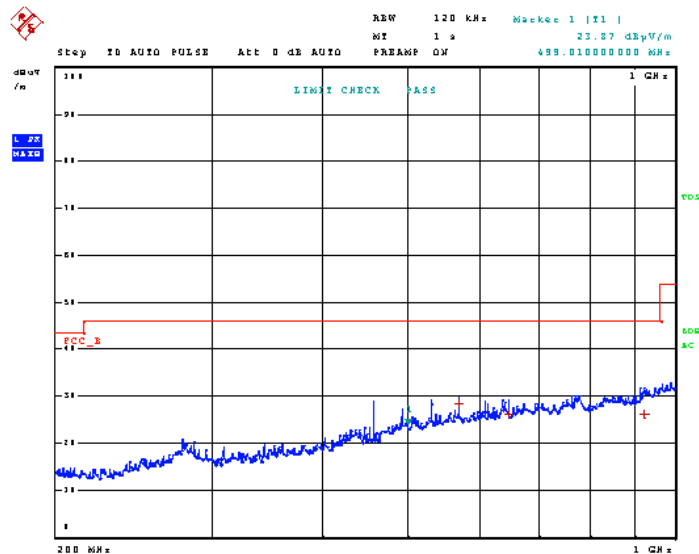
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

10 Apr 18 12:07

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	28.54	Quasi Peak	-17.46
1	648.800000000 MHz	26.25	Quasi Peak	-19.75
1	922.100000000 MHz	26.07	Quasi Peak	-19.93

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

ANALOGUE Receiver Band, Scanned 200 MHz to 1 GHz

Test Data: Middle of Band 30 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 14:22

Test Spec CISPR 22 Radiated Disturbances

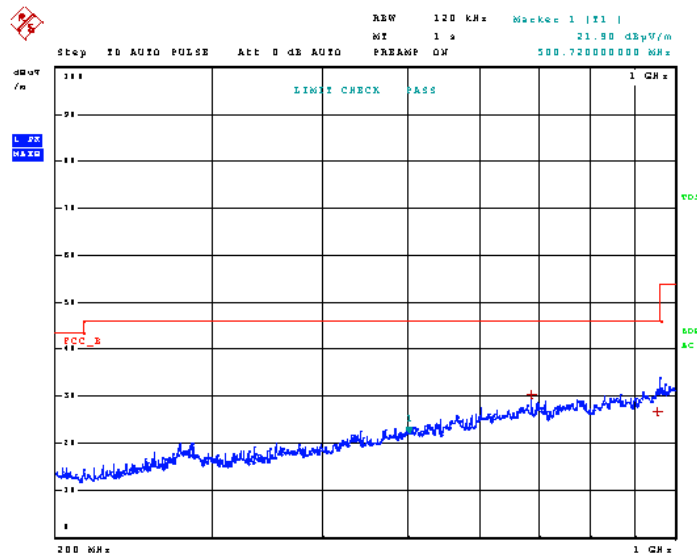
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 µs	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 30 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 14:22

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 2

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	688.13000000 MHz	30.40	Quasi Peak	-15.60
1	954.44000000 MHz	26.71	Quasi Peak	-19.29

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 30 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 14:21

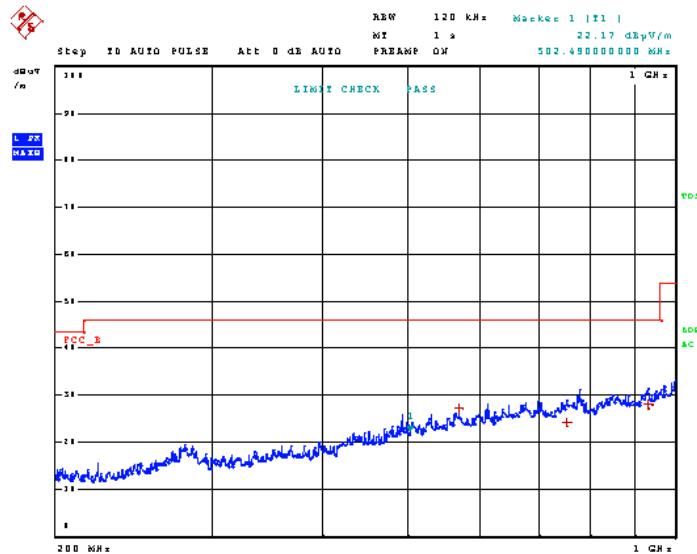
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 30 MHz Field Strength Table, Vert. Polarity

10 Apr 18 14:21

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	27.17	Quasi Peak	-18.83
1	755.330000000 MHz	24.27	Quasi Peak	-21.73
1	933.890000000 MHz	28.04	Quasi Peak	-17.96

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 14:19

Test Spec CISPR 22 Radiated Disturbances

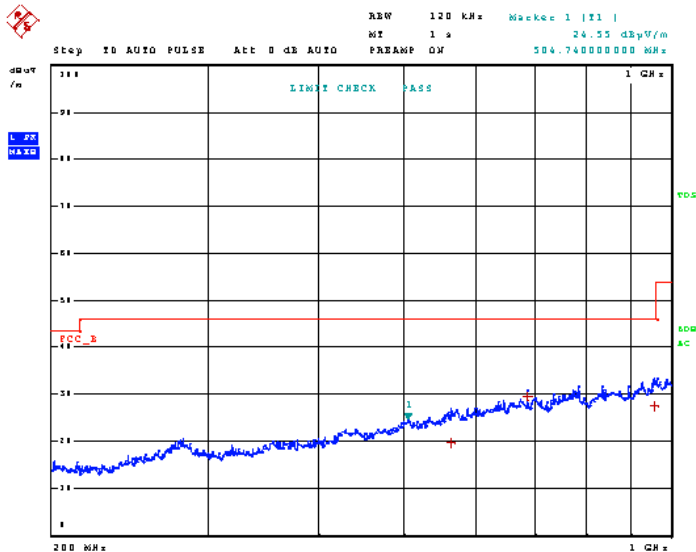
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 14:19

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	564.260000000 MHz	19.73	Quasi Peak	-26.27
1	688.130000000 MHz	29.54	Quasi Peak	-16.46
1	955.940000000 MHz	27.47	Quasi Peak	-18.53

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 14:20

Test Spec CISPR 22 Radiated Disturbances

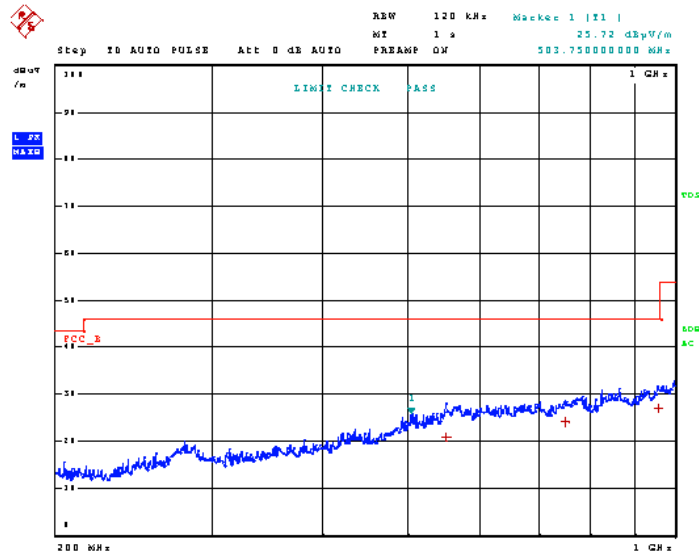
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Vert. Polarity

10 Apr 18 14:19

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	564.26000000 MHz	19.73	Quasi Peak	-26.27
1	688.13000000 MHz	29.54	Quasi Peak	-16.46
1	955.94000000 MHz	27.47	Quasi Peak	-18.53

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 12:13

Test Spec CISPR 22 Radiated Disturbances

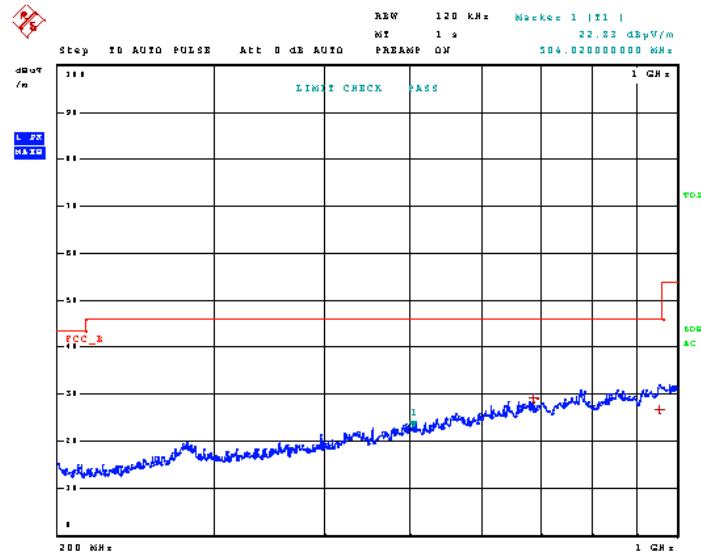
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 12:13

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 2

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	688.130000000 MHz	29.18	Quasi Peak	-16.82
1	954.890000000 MHz	26.84	Quasi Peak	-19.16

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 12:12

Test Spec CISPR 22 Radiated Disturbances

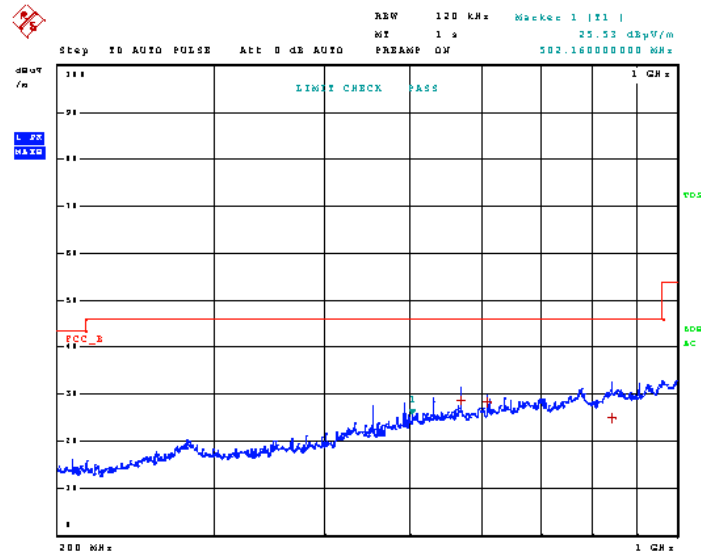
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Vert. Polarity

10 Apr 18 12:12

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	28.72	Quasi Peak	-17.28
1	609.500000000 MHz	28.18	Quasi Peak	-17.82
1	842.930000000 MHz	24.88	Quasi Peak	-21.12

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 12:09

Test Spec CISPR 22 Radiated Disturbances

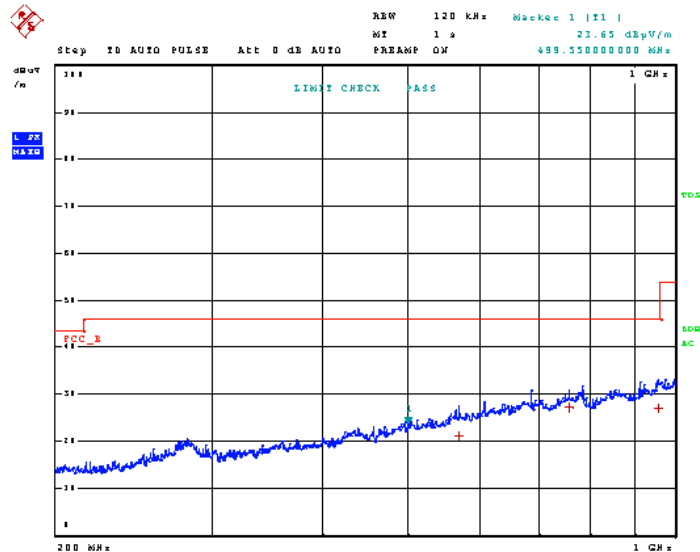
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2



RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 12:09

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	21.05	Quasi Peak	-24.95
1	759.260000000 MHz	27.16	Quasi Peak	-18.84
1	956.840000000 MHz	27.02	Quasi Peak	-18.98

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 12:10

Test Spec CISPR 22 Radiated Disturbances

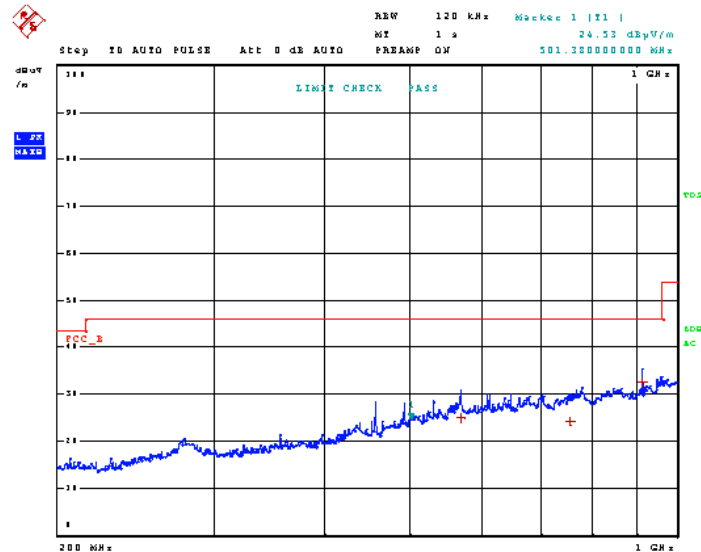
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamplifier	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Vert. Polarity

10 Apr 18 12:10

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	24.93	Quasi Peak	-21.07
1	757.430000000 MHz	24.32	Quasi Peak	-21.68
1	912.770000000 MHz	32.69	Quasi Peak	-13.31

Page 2 of 2

ANALOGUE Scanning Receiver Function, Scanned 1 GHz to 12.5 GHz

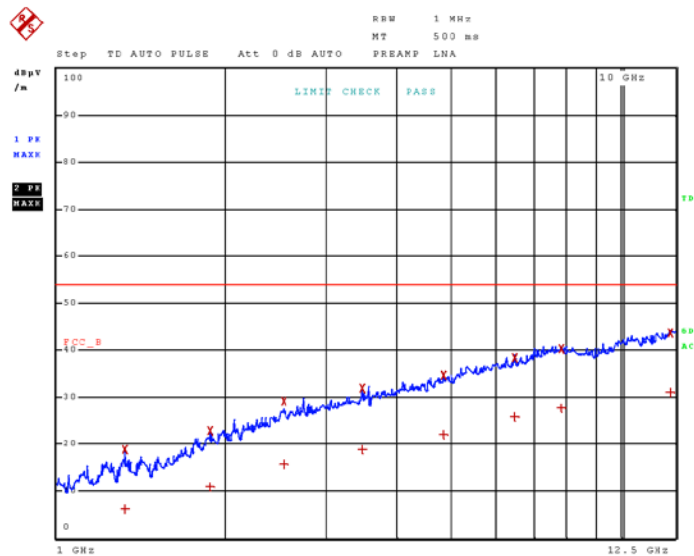
Test Data: Field Strength Plot, Horiz. Polarity

10 Apr 18 15:14

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

10 Apr 18 15:14

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.322500000 GHz	6.21	CISPR Averag	-47.79
2	1.322500000 GHz	18.91	Max Peak	
1	1.872500000 GHz	10.77	CISPR Averag	-43.23
2	1.872500000 GHz	22.77	Max Peak	
1	2.529500000 GHz	15.57	CISPR Averag	-38.43
2	2.529500000 GHz	29.07	Max Peak	
1	3.484500000 GHz	18.79	CISPR Averag	-35.21
2	3.484500000 GHz	31.90	Max Peak	
1	4.844000000 GHz	21.99	CISPR Averag	-32.01
2	4.844000000 GHz	34.64	Max Peak	
1	6.486000000 GHz	25.83	CISPR Averag	-28.17
2	6.486000000 GHz	38.36	Max Peak	
1	7.841500000 GHz	27.70	CISPR Averag	-26.30
2	7.841500000 GHz	40.33	Max Peak	
1	12.269500000 GHz	31.02	CISPR Averag	-22.98
2	12.269500000 GHz	43.62	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

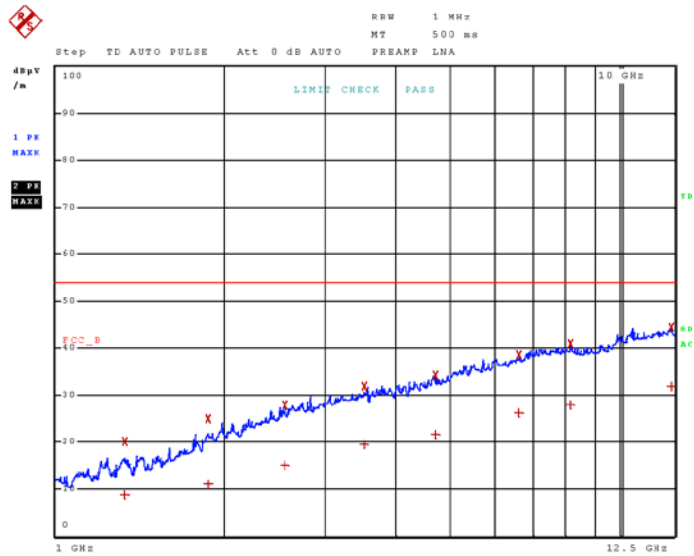
Test Data: Field Strength Plot, Vert. Polarity

10 Apr 18 15:15

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

10 Apr 18 15:07

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.319500000 GHz	5.49	CISPR Averag	-48.51
2	1.319500000 GHz	18.23	Max Peak	
1	1.861000000 GHz	10.60	CISPR Averag	-43.40
2	1.861000000 GHz	23.57	Max Peak	
1	2.528250000 GHz	15.30	CISPR Averag	-38.70
2	2.528250000 GHz	27.70	Max Peak	
1	3.434750000 GHz	18.10	CISPR Averag	-35.90
2	3.434750000 GHz	30.71	Max Peak	
1	4.826000000 GHz	22.12	CISPR Averag	-31.88
2	4.826000000 GHz	34.76	Max Peak	
1	6.455750000 GHz	25.29	CISPR Averag	-28.71
2	6.455750000 GHz	37.72	Max Peak	
1	7.905500000 GHz	28.12	CISPR Averag	-25.88
2	7.905500000 GHz	40.55	Max Peak	
1	12.454500000 GHz	30.69	CISPR Averag	-23.31
2	12.454500000 GHz	42.98	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

ANALOGUE Receiver Band, Scanned 1 GHz to 12.5 GHz

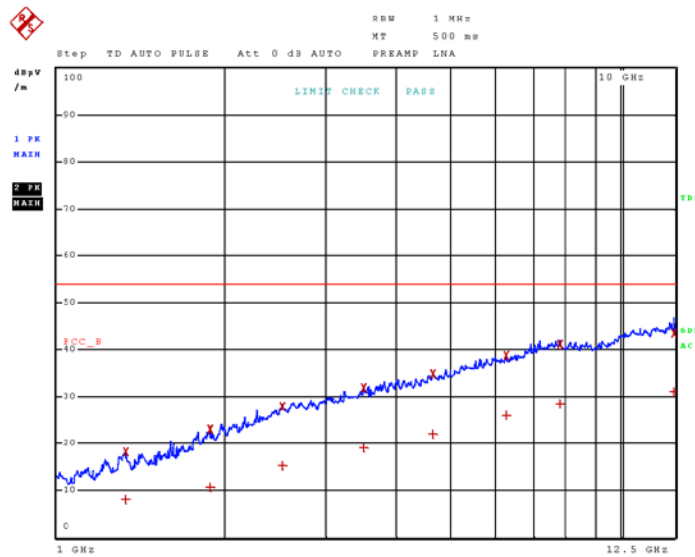
Test Data: Middle of Band 500 MHz Field Strength Plot, Horiz. Polarity

10.Apr 18 14:59

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 14:59

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.327250000 GHz	8.11	CISPR Averag	-45.89
2	1.327250000 GHz	18.19	Max Peak	
1	1.871500000 GHz	10.54	CISPR Averag	-43.46
2	1.871500000 GHz	22.91	Max Peak	
1	2.515500000 GHz	15.31	CISPR Averag	-38.69
2	2.515500000 GHz	27.88	Max Peak	
1	3.506750000 GHz	19.02	CISPR Averag	-34.98
2	3.506750000 GHz	31.85	Max Peak	
1	4.652500000 GHz	21.95	CISPR Averag	-32.05
2	4.652500000 GHz	34.81	Max Peak	
1	6.291000000 GHz	25.89	CISPR Averag	-28.11
2	6.291000000 GHz	38.67	Max Peak	
1	7.800750000 GHz	28.39	CISPR Averag	-25.61
2	7.800750000 GHz	41.01	Max Peak	
1	12.425250000 GHz	31.04	CISPR Averag	-22.96
2	12.425250000 GHz	43.28	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

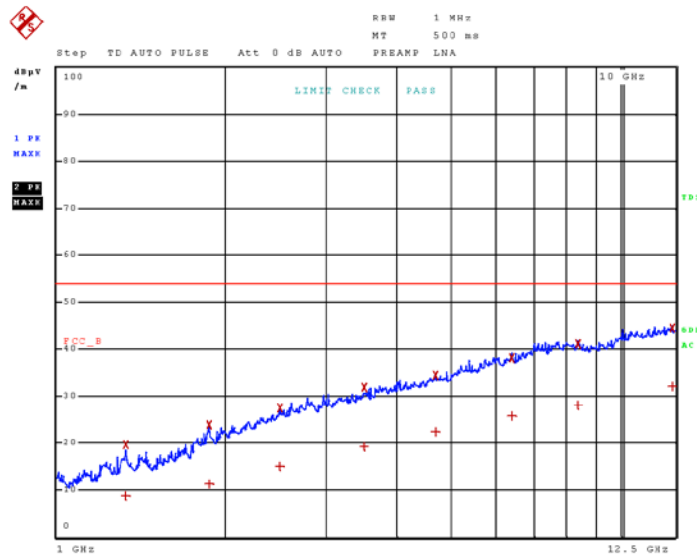
Test Data: Middle of Band 500 MHz Field Strength Plot, Vert. Polarity

10 Apr 18 14:57

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Vert. Polarity

10 Apr 18 14:57

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.327250000 GHz	8.81	CISPR Averag	-45.19
2	1.327250000 GHz	19.69	Max Peak	
1	1.864250000 GHz	11.20	CISPR Averag	-42.80
2	1.864250000 GHz	23.91	Max Peak	
1	2.487000000 GHz	15.07	CISPR Averag	-38.93
2	2.487000000 GHz	27.42	Max Peak	
1	3.511000000 GHz	19.23	CISPR Averag	-34.77
2	3.511000000 GHz	31.91	Max Peak	
1	4.686000000 GHz	22.30	CISPR Averag	-31.70
2	4.686000000 GHz	34.43	Max Peak	
1	6.407500000 GHz	25.78	CISPR Averag	-28.22
2	6.407500000 GHz	38.05	Max Peak	
1	8.393750000 GHz	28.02	CISPR Averag	-25.98
2	8.393750000 GHz	41.02	Max Peak	
1	12.329750000 GHz	31.95	CISPR Averag	-22.05
2	12.329750000 GHz	44.47	Max Peak	

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RADIATED SPURIOUS EMISSIONS

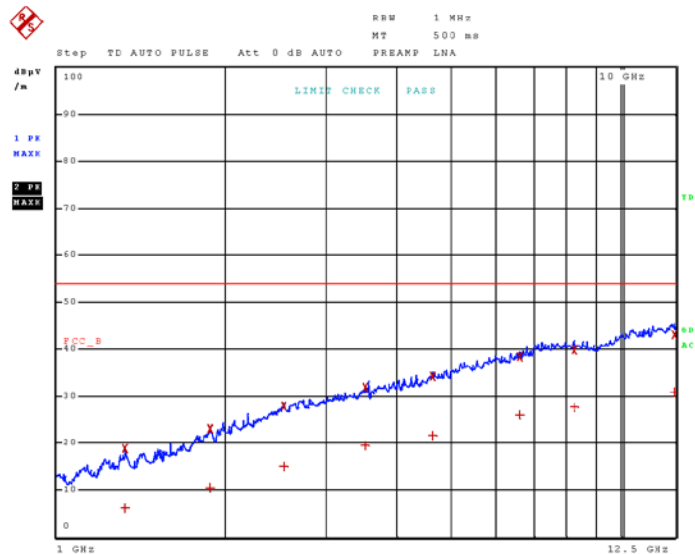
Test Data: High End of Band 960 MHz Field Strength Plot, Horiz. Polarity

10 Apr 18 15:09

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Horiz. Polarity

10 Apr 18 15:09

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.322250000 GHz	6.10	CISPR Averag	-47.90
2	1.322250000 GHz	18.73	Max Peak	
1	1.871500000 GHz	10.45	CISPR Averag	-43.55
2	1.871500000 GHz	23.09	Max Peak	
1	2.525000000 GHz	15.04	CISPR Averag	-38.96
2	2.525000000 GHz	27.79	Max Peak	
1	3.514250000 GHz	19.49	CISPR Averag	-34.51
2	3.514250000 GHz	31.89	Max Peak	
1	4.643500000 GHz	21.48	CISPR Averag	-32.52
2	4.643500000 GHz	34.13	Max Peak	
1	6.626000000 GHz	25.91	CISPR Averag	-28.09
2	6.626000000 GHz	38.38	Max Peak	
1	8.255250000 GHz	27.57	CISPR Averag	-26.43
2	8.255250000 GHz	39.73	Max Peak	
1	12.447750000 GHz	30.88	CISPR Averag	-23.12
2	12.447750000 GHz	43.07	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

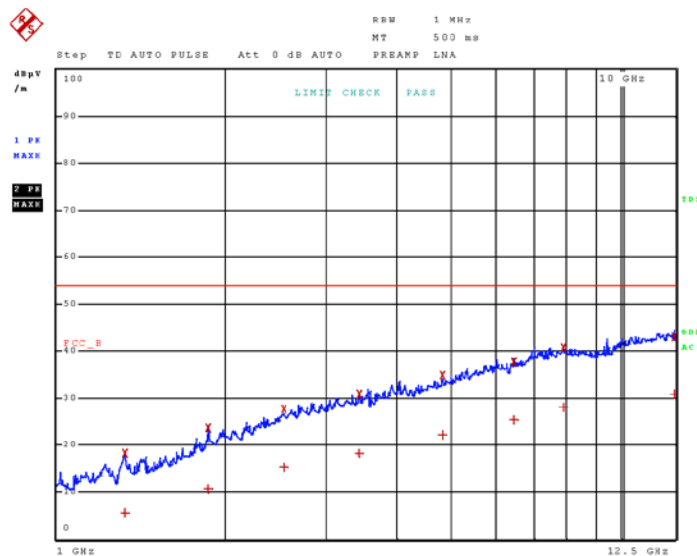
Test Data: High End of Band 960 MHz Field Strength Plot, Vert. Polarity

10.Apr 18 15:07

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Vert. Polarity

10 Apr 18 15:07

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.319500000 GHz	5.49	CISPR Averag	-48.51
2	1.319500000 GHz	18.23	Max Peak	
1	1.861000000 GHz	10.60	CISPR Averag	-43.40
2	1.861000000 GHz	23.57	Max Peak	
1	2.528250000 GHz	15.30	CISPR Averag	-38.70
2	2.528250000 GHz	27.70	Max Peak	
1	3.434750000 GHz	18.10	CISPR Averag	-35.90
2	3.434750000 GHz	30.71	Max Peak	
1	4.826000000 GHz	22.12	CISPR Averag	-31.88
2	4.826000000 GHz	34.76	Max Peak	
1	6.455750000 GHz	25.29	CISPR Averag	-28.71
2	6.455750000 GHz	37.72	Max Peak	
1	7.905500000 GHz	28.12	CISPR Averag	-25.88
2	7.905500000 GHz	40.55	Max Peak	
1	12.454500000 GHz	30.69	CISPR Averag	-23.31
2	12.454500000 GHz	42.98	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

DIGITAL Scanning Receiver Function, Scanned 30 MHz to 200 MHz

Test Data: Field Strength Plot, Horiz. Polarity



11 Apr 18 08:16

Test Spec CISPR 22 Radiated Disturbances

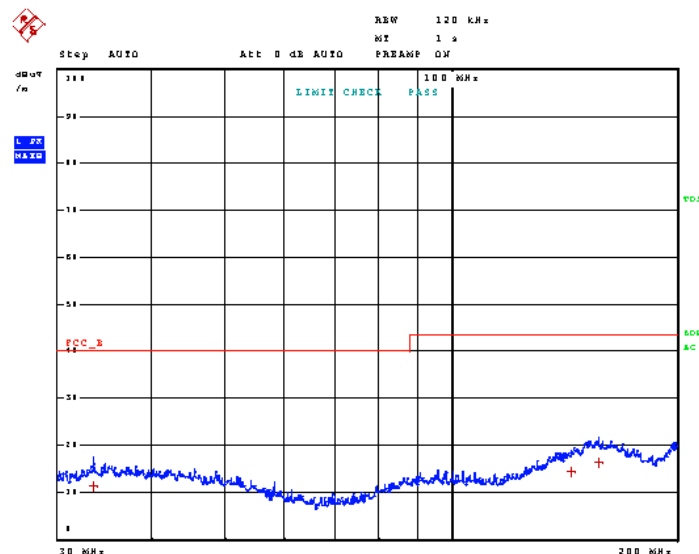
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

11.Apr 18 08:16

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	33.28000000 MHz	11.22	Quasi Peak	-28.78
1	144.28000000 MHz	14.49	Quasi Peak	-29.01
1	157.04000000 MHz	16.21	Quasi Peak	-27.29

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



11 Apr 18 08:12

Test Spec CISPR 22 Radiated Disturbances

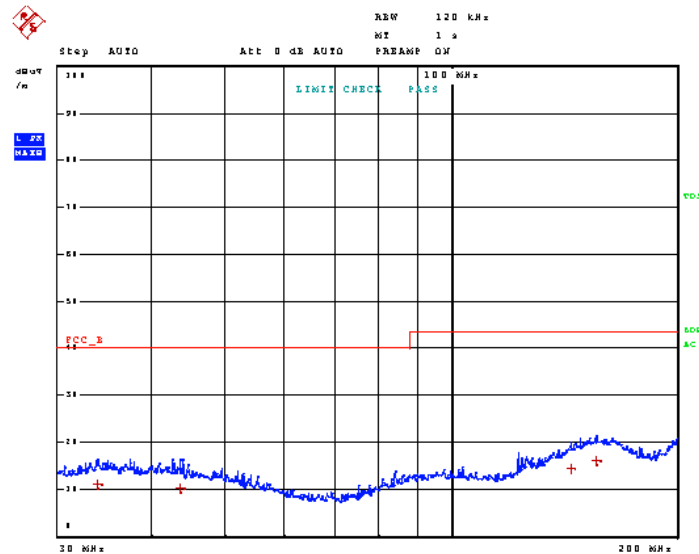
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

11.Apr 18 08:12

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	33.84000000 MHz	10.93	Quasi Peak	-29.07
1	43.52000000 MHz	10.11	Quasi Peak	-29.89
1	144.48000000 MHz	14.47	Quasi Peak	-29.03
1	156.12000000 MHz	16.14	Quasi Peak	-27.36

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

DIGITAL Receiver Band, Scanned 30 MHz to 200 MHz

Test Data: Low End of Band 1.7 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 16:43

Test Spec CISPR 22 Radiated Disturbances

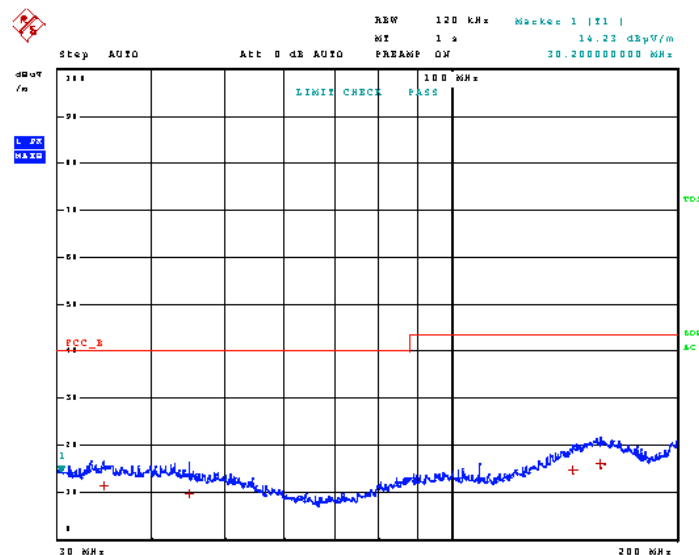
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 1.7 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 16:43

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	34.48000000 MHz	11.41	Quasi Peak	-28.59
1	44.72000000 MHz	9.82	Quasi Peak	-30.18
1	145.40000000 MHz	14.86	Quasi Peak	-28.64
1	158.44000000 MHz	16.07	Quasi Peak	-27.43

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 1.7 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 16:34

Test Spec: CISPR 22 Radiated Disturbances

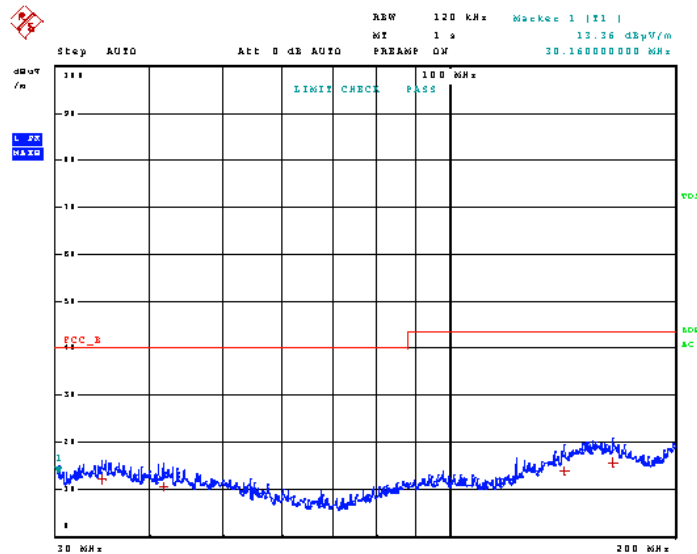
Polarity:

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 1.7 MHz Field Strength Table, Vert. Polarity

10 Apr 18 16:34

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	34.48000000 MHz	12.16	Quasi Peak	-27.84
1	41.68000000 MHz	10.62	Quasi Peak	-29.38
1	142.44000000 MHz	13.89	Quasi Peak	-29.61
1	165.24000000 MHz	15.70	Quasi Peak	-27.80

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 17:08

Test Spec: CISPR 22 Radiated Disturbances

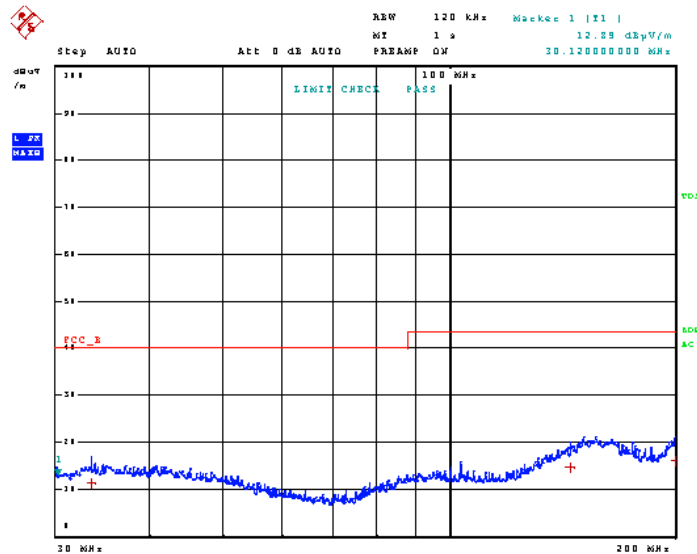
Polarity:

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 17:08

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	33.280000000 MHz	11.33	Quasi Peak	-28.67
1	144.880000000 MHz	14.63	Quasi Peak	-28.87
1	199.800000000 MHz	16.09	Quasi Peak	-27.41

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 17:13

Test Spec CISPR 22 Radiated Disturbances

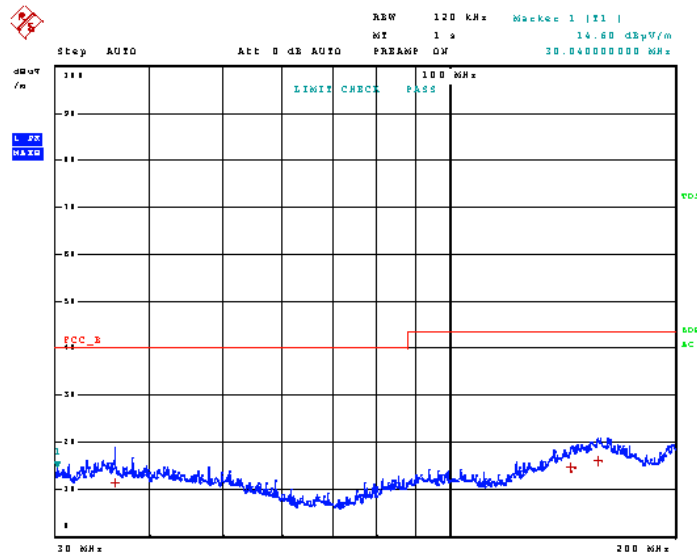
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Table, Vert. Polarity

10.Apr 18 17:13

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	35.840000000 MHz	11.36	Quasi Peak	-28.64
1	145.240000000 MHz	14.71	Quasi Peak	-28.79
1	157.560000000 MHz	16.16	Quasi Peak	-27.34

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Horiz. Polarity



11.Apr 18 07:59

Test Spec CISPR 22 Radiated Disturbances

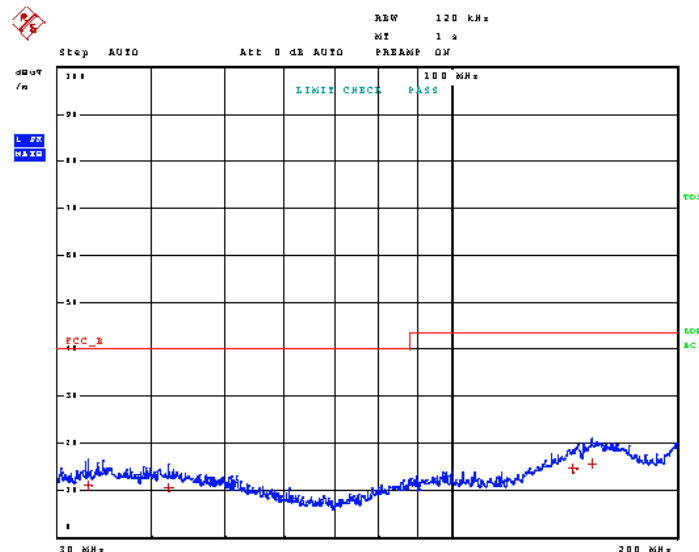
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Horiz. Polarity

11.Apr 18 07:59

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	32.80000000 MHz	11.01	Quasi Peak	-28.99
1	41.96000000 MHz	10.52	Quasi Peak	-29.48
1	145.48000000 MHz	14.65	Quasi Peak	-28.85
1	153.92000000 MHz	15.68	Quasi Peak	-27.82

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Vert. Polarity



11.Apr 18 08:00

Test Spec CISPR 22 Radiated Disturbances

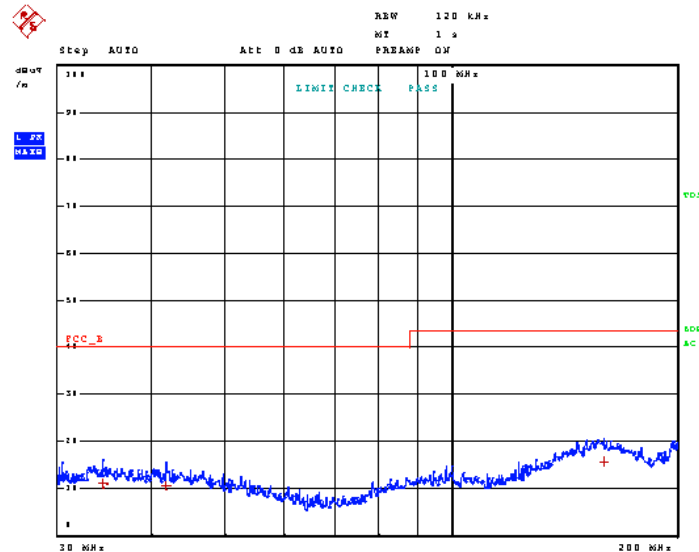
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Vert. Polarity

11.Apr 18 08:00

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	34.320000000 MHz	11.01	Quasi Peak	-28.99
1	41.800000000 MHz	10.56	Quasi Peak	-29.44
1	159.880000000 MHz	15.70	Quasi Peak	-27.80

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Horiz. Polarity



11.Apr 18 08:03

Test Spec CISPR 22 Radiated Disturbances

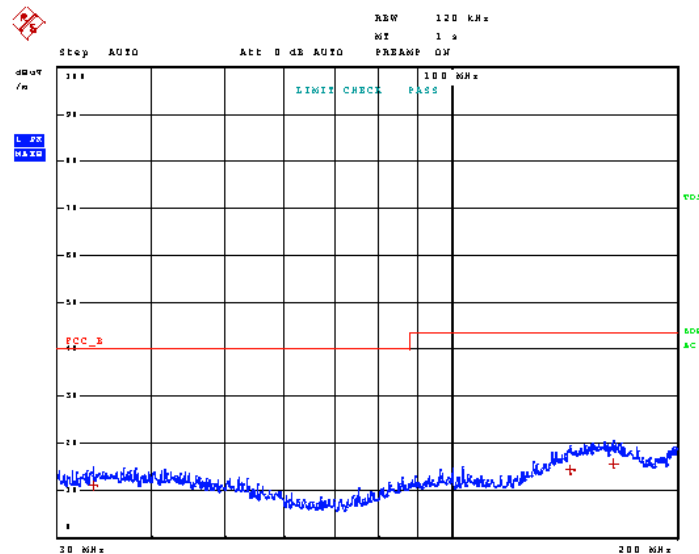
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Horiz. Polarity

11.Apr 18 08:03

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	33.360000000 MHz	11.11	Quasi Peak	-28.89
1	144.200000000 MHz	14.38	Quasi Peak	-29.12
1	164.480000000 MHz	15.67	Quasi Peak	-27.83

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Vert. Polarity



11.Apr 18 08:01

Test Spec CISPR 22 Radiated Disturbances

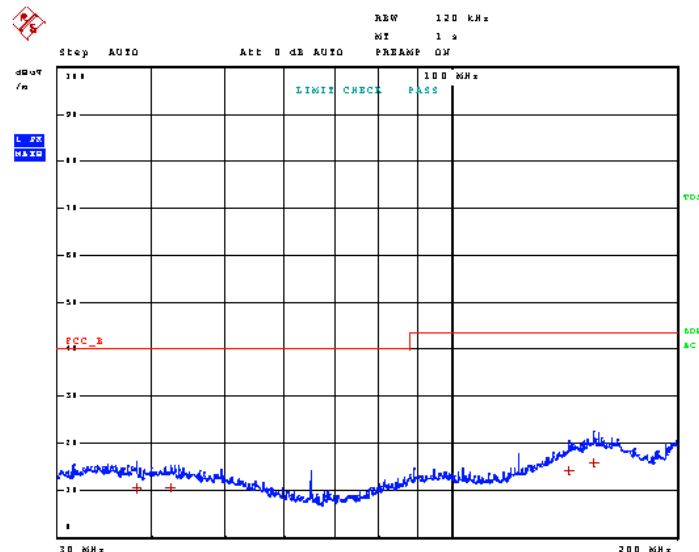
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Vert. Polarity

11.Apr 18 08:01

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	38.16000000 MHz	10.44	Quasi Peak	-29.56
1	42.32000000 MHz	10.50	Quasi Peak	-29.50
1	143.72000000 MHz	14.25	Quasi Peak	-29.25
1	155.00000000 MHz	15.96	Quasi Peak	-27.54

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Horiz. Polarity



11.Apr 18 08:03

Test Spec CISPR 22 Radiated Disturbances

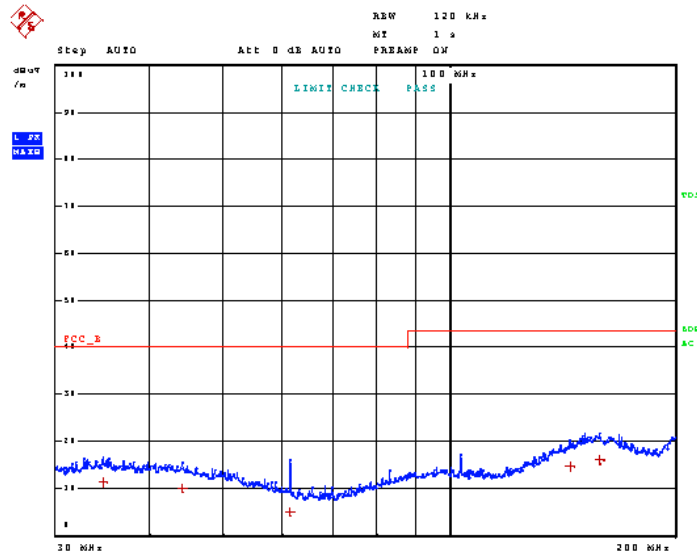
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Horiz. Polarity

11.Apr 18 08:03

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	34.52000000 MHz	11.16	Quasi Peak	-28.84
1	44.08000000 MHz	10.06	Quasi Peak	-29.94
1	61.36000000 MHz	4.98	Quasi Peak	-35.02
1	144.84000000 MHz	14.53	Quasi Peak	-28.97
1	158.56000000 MHz	16.12	Quasi Peak	-27.38

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Vert. Polarity



11.Apr 18 08:10

Test Spec CISPR 22 Radiated Disturbances

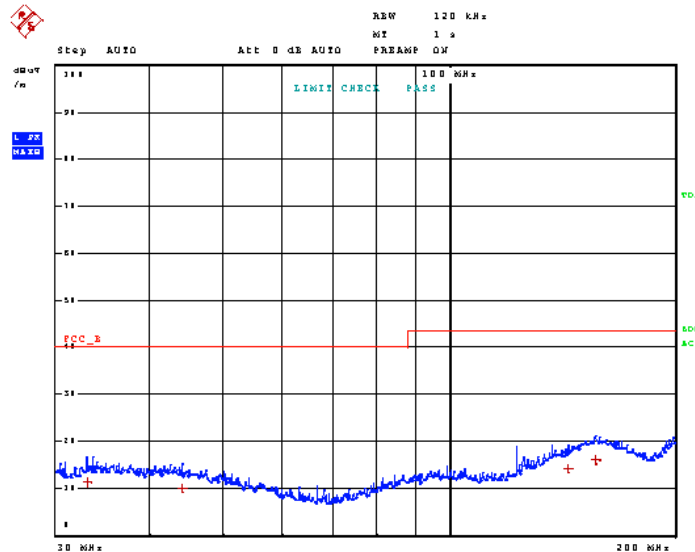
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Vert. Polarity

11.Apr 18 08:10

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	32.92000000 MHz	11.15	Quasi Peak	-28.85
1	44.16000000 MHz	9.99	Quasi Peak	-30.01
1	143.80000000 MHz	14.27	Quasi Peak	-29.23
1	156.92000000 MHz	16.14	Quasi Peak	-27.36

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

DIGITAL Scanning Receiver Function, Scanned 200 MHz to 1 GHz

Test Data: Field Strength Plot, Horiz. Polarity



11.Apr 18 08:16

Test Spec CISPR 22 Radiated Disturbances

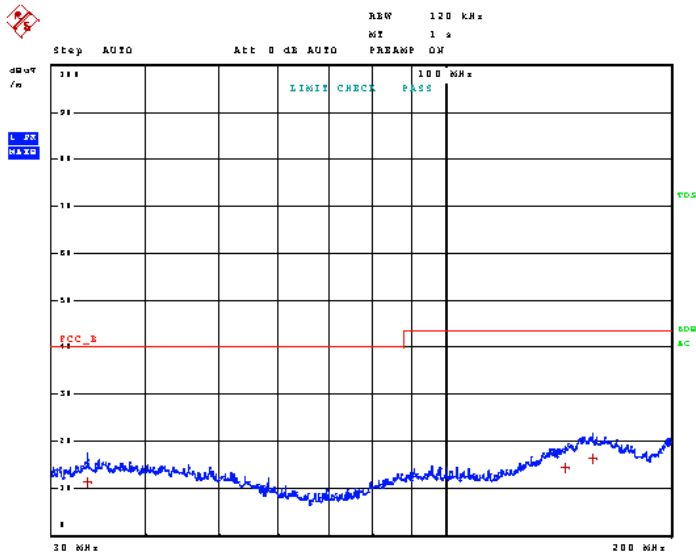
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

10.Apr 18 15:54

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	24.78	Quasi Peak	-21.22
1	759.260000000 MHz	25.95	Quasi Peak	-20.05
1	912.740000000 MHz	32.69	Quasi Peak	-13.31

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



10.Apr 18 15:54

Test Spec CISPR 22 Radiated Disturbances

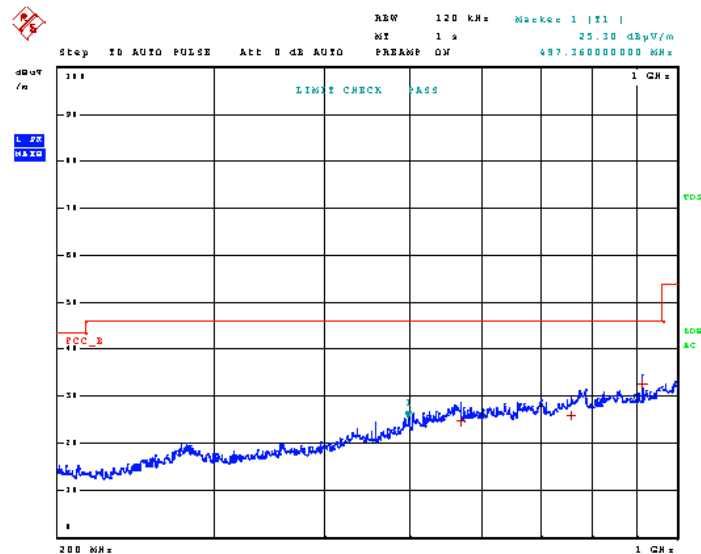
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

10.Apr 18 15:54

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	24.78	Quasi Peak	-21.22
1	759.260000000 MHz	25.95	Quasi Peak	-20.05
1	912.740000000 MHz	32.69	Quasi Peak	-13.31

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

DIGITAL Receiver Band, Scanned 200 MHz to 1 GHz

Test Data: Low End of Band 1.7 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 16:31

Test Spec CISPR 22 Radiated Disturbances

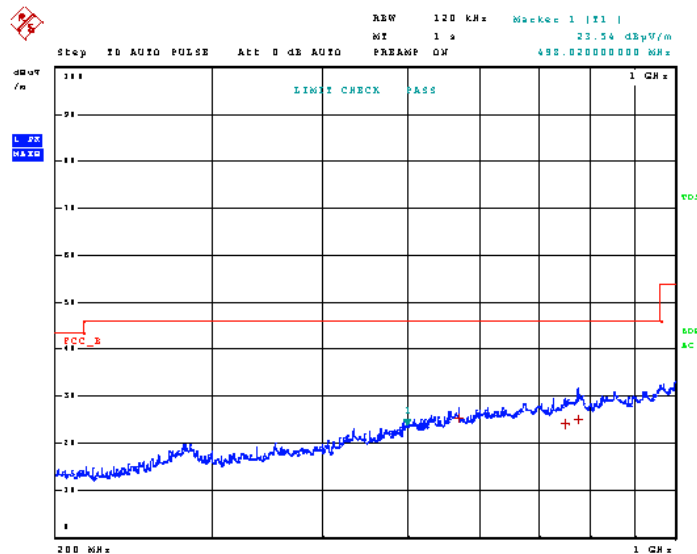
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 1.7 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 16:31

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	25.35	Quasi Peak	-20.65
1	750.620000000 MHz	23.97	Quasi Peak	-22.03
1	776.510000000 MHz	25.20	Quasi Peak	-20.80

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 1.7 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 16:31

Test Spec CISPR 22 Radiated Disturbances

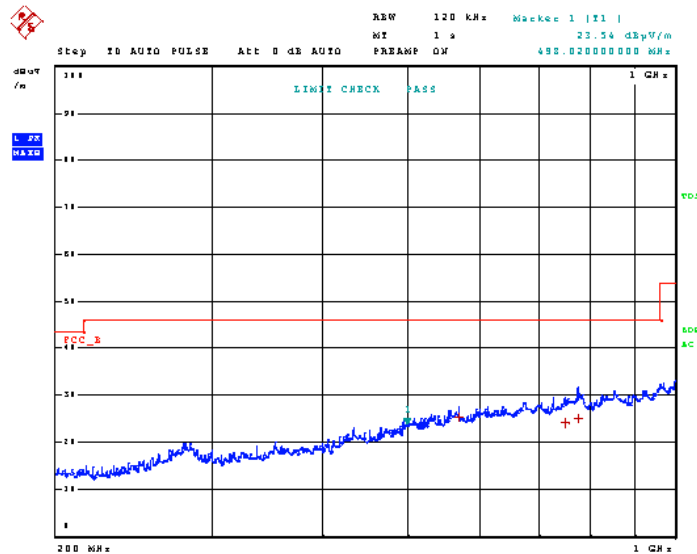
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 1.7 MHz Field Strength Table, Vert. Polarity

10 Apr 18 16:31

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	25.35	Quasi Peak	-20.65
1	750.620000000 MHz	23.97	Quasi Peak	-22.03
1	776.510000000 MHz	25.20	Quasi Peak	-20.80

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 14:22

Test Spec CISPR 22 Radiated Disturbances

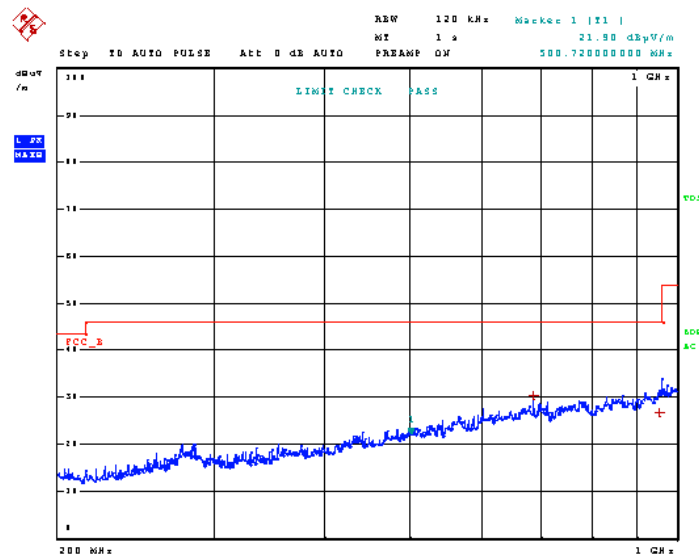
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 14:22

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	688.130000000 MHz	30.40	Quasi Peak	-15.60
1	954.440000000 MHz	26.71	Quasi Peak	-19.29

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 16:26

Test Spec CISPR 22 Radiated Disturbances

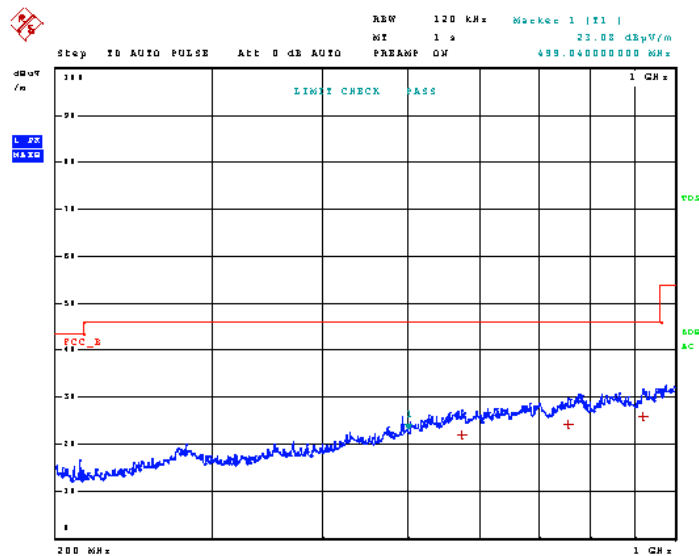
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 10 MHz Field Strength Table, Vert. Polarity

10.Apr 18 16:26

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	574.70000000 MHz	21.91	Quasi Peak	-24.09
1	757.73000000 MHz	24.27	Quasi Peak	-21.73
1	919.97000000 MHz	25.84	Quasi Peak	-20.16

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Horiz. Polarity



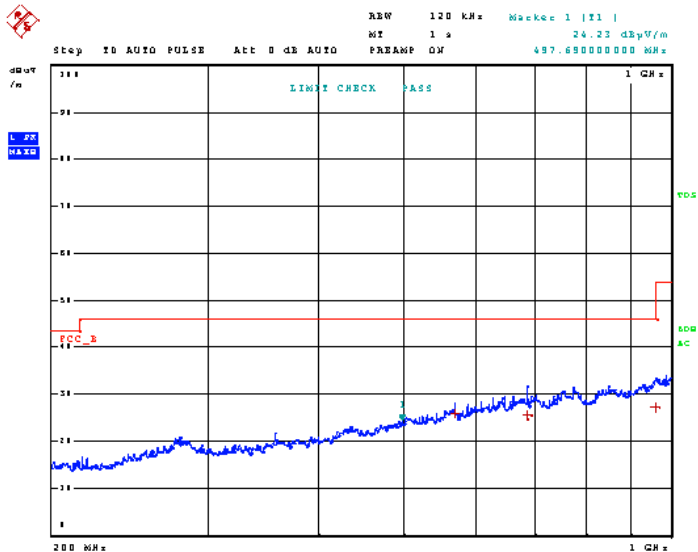
10.Apr 18 16:03

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 16:03

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	25.86	Quasi Peak	-20.14
1	688.130000000 MHz	25.44	Quasi Peak	-20.56
1	958.340000000 MHz	27.22	Quasi Peak	-18.78

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Plot, Vert. Polarity



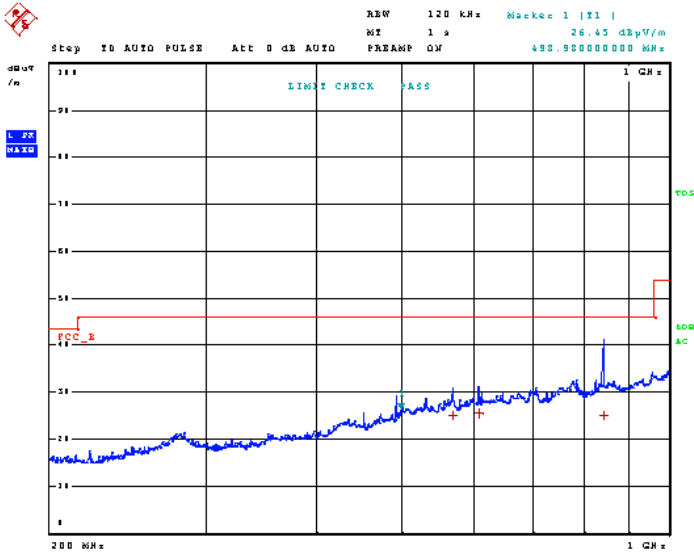
10.Apr 18 16:08

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 100 MHz Field Strength Table, Vert. Polarity

10.Apr 18 16:08

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	25.21	Quasi Peak	-20.79
1	609.500000000 MHz	25.48	Quasi Peak	-20.52
1	844.190000000 MHz	25.12	Quasi Peak	-20.88

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Horiz. Polarity



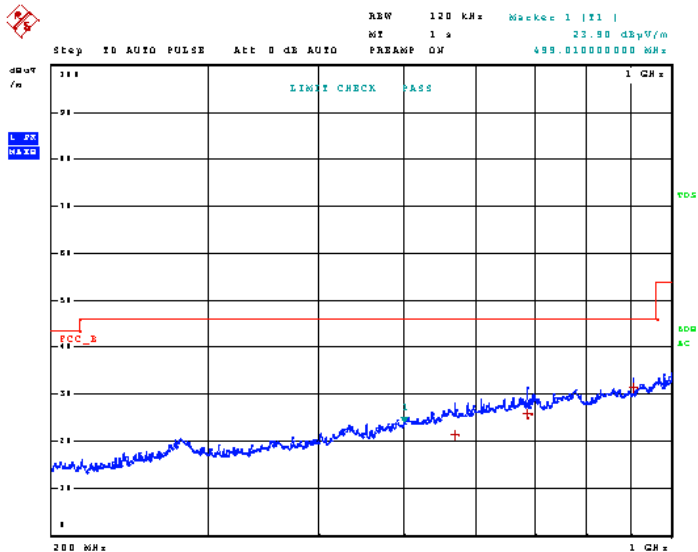
10.Apr 18 15:50

Test Spec: CISPR 22 Radiated Disturbances
Polarity: Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 15:50

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	570.14000000 MHz	21.31	Quasi Peak	-24.69
1	688.13000000 MHz	25.83	Quasi Peak	-20.17
1	905.51000000 MHz	31.50	Quasi Peak	-14.50

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Plot, Vert. Polarity



10.Apr 18 15:49

Test Spec CISPR 22 Radiated Disturbances

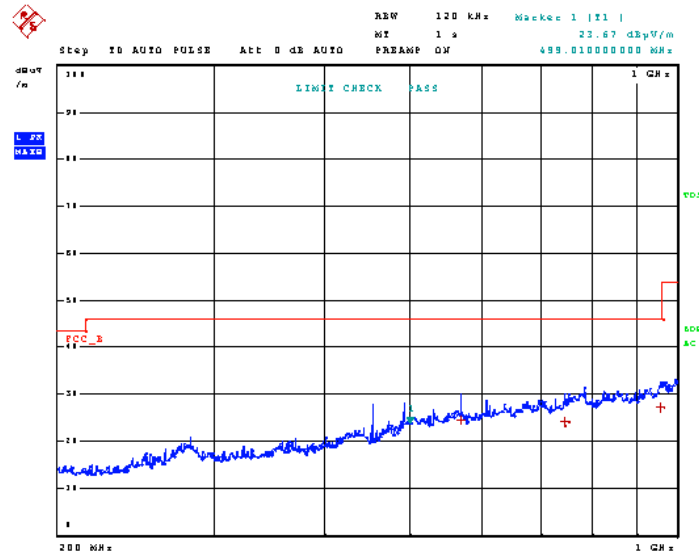
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Vert. Polarity

10.Apr 18 15:50

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.14000000 MHz	21.31	Quasi Peak	-24.69
1	688.13000000 MHz	25.83	Quasi Peak	-20.17
1	905.51000000 MHz	31.50	Quasi Peak	-14.50

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Horiz. Polarity



10.Apr 18 15:52

Test Spec CISPR 22 Radiated Disturbances

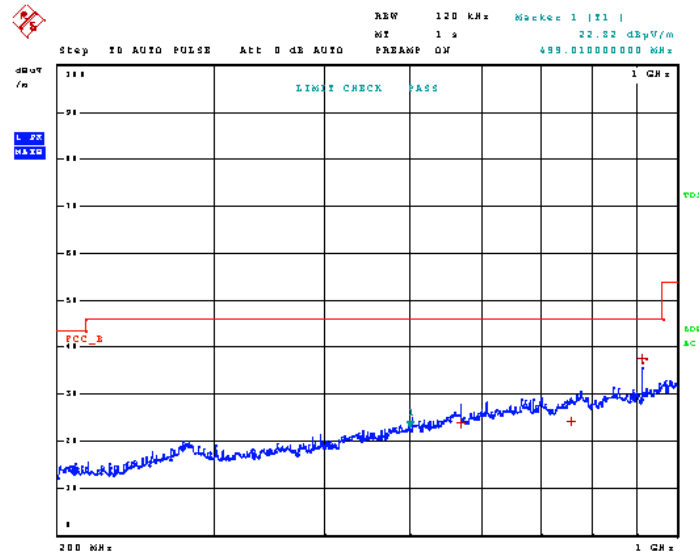
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 15:52

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	570.170000000 MHz	23.78	Quasi Peak	-22.22
1	758.120000000 MHz	24.22	Quasi Peak	-21.78
1	912.740000000 MHz	37.57	Quasi Peak	-8.43

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Plot, Vert. Polarity



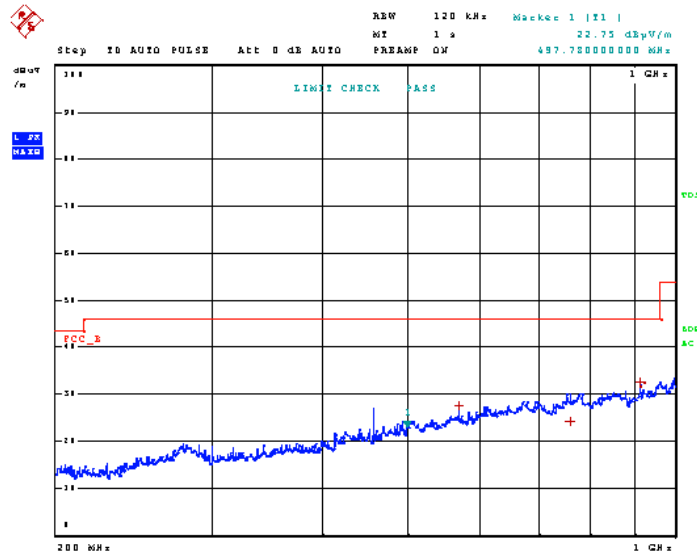
10.Apr 18 15:53

Test Spec CISPR 22 Radiated Disturbances
Polarity Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Vert. Polarity

10.Apr 18 15:53

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	570.20000000 MHz	27.64	Quasi Peak	-18.36
1	760.49000000 MHz	24.27	Quasi Peak	-21.73
1	912.74000000 MHz	32.41	Quasi Peak	-13.59

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

DIGITAL Scanning Receiver Function, Scanned 1 GHz to 12.5 GHz

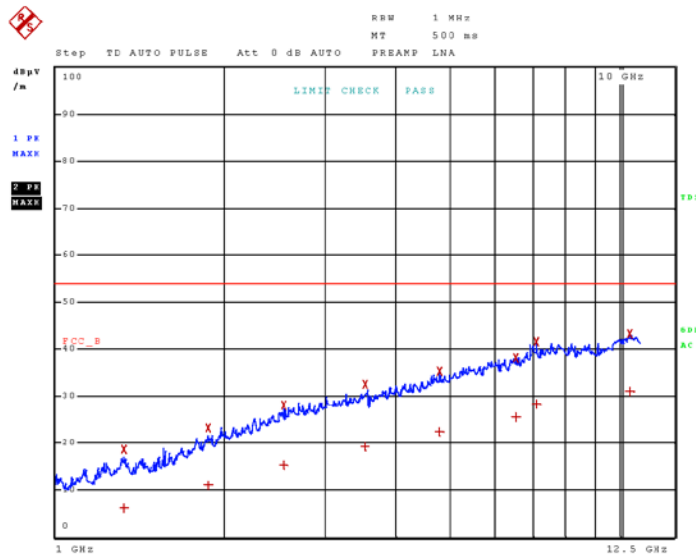
Test Data: Field Strength Plot, Horiz. Polarity

10.Apr 18 15:25

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Horiz. Polarity

10.Apr 18 15:25

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.321250000 GHz	6.10	CISPR Averag	-47.90
2	1.321250000 GHz	18.53	Max Peak	
1	1.865750000 GHz	10.93	CISPR Averag	-43.07
2	1.865750000 GHz	23.31	Max Peak	
1	2.541750000 GHz	15.32	CISPR Averag	-38.68
2	2.541750000 GHz	28.01	Max Peak	
1	3.531250000 GHz	19.26	CISPR Averag	-34.74
2	3.531250000 GHz	32.51	Max Peak	
1	4.788500000 GHz	22.34	CISPR Averag	-31.66
2	4.788500000 GHz	35.17	Max Peak	
1	6.529000000 GHz	25.50	CISPR Averag	-28.50
2	6.529000000 GHz	38.12	Max Peak	
1	7.133750000 GHz	28.24	CISPR Averag	-25.76
2	7.133750000 GHz	41.40	Max Peak	
1	10.431500000 GHz	30.91	CISPR Averag	-23.09
2	10.431500000 GHz	43.13	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

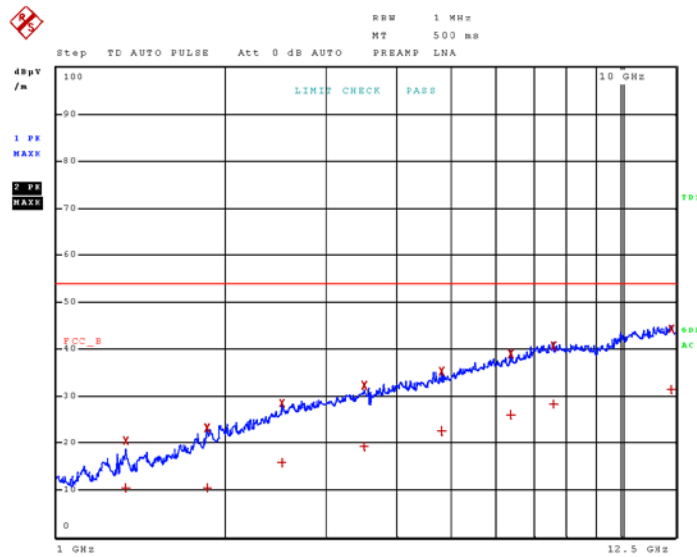
Test Data: Field Strength Plot, Vert. Polarity

10.Apr 18 15:24

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

10.Apr 18 15:24

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.327000000 GHz	10.49	CISPR Averag	-43.51
2	1.327000000 GHz	20.45	Max Peak	
1	1.850250000 GHz	10.50	CISPR Averag	-43.50
2	1.850250000 GHz	23.21	Max Peak	
1	2.510250000 GHz	15.87	CISPR Averag	-38.13
2	2.510250000 GHz	28.47	Max Peak	
1	3.509000000 GHz	19.14	CISPR Averag	-34.86
2	3.509000000 GHz	32.28	Max Peak	
1	4.812000000 GHz	22.59	CISPR Averag	-31.41
2	4.812000000 GHz	35.27	Max Peak	
1	6.377500000 GHz	25.88	CISPR Averag	-28.12
2	6.377500000 GHz	38.94	Max Peak	
1	7.590250000 GHz	28.35	CISPR Averag	-25.65
2	7.590250000 GHz	40.75	Max Peak	
1	12.277750000 GHz	31.43	CISPR Averag	-22.57
2	12.277750000 GHz	44.19	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

DIGITAL Receiver Band, Scanned 1 GHz to 12.5 GHz

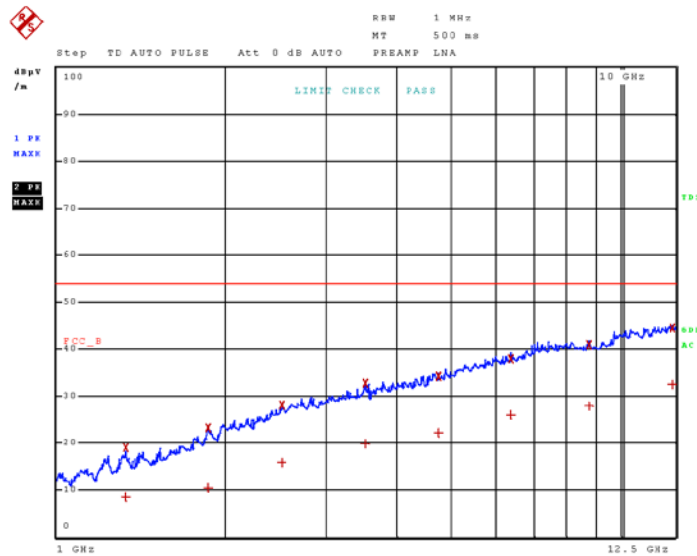
Test Data: Middle of Band 500 MHz Field Strength Plot, Horiz. Polarity

10 Apr 18 15:32

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 15:32

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.327000000 GHz	8.60	CISPR Averag	-45.40
2	1.327000000 GHz	19.08	Max Peak	
1	1.857000000 GHz	10.37	CISPR Averag	-43.63
2	1.857000000 GHz	23.26	Max Peak	
1	2.507750000 GHz	15.87	CISPR Averag	-38.13
2	2.507750000 GHz	28.03	Max Peak	
1	3.525500000 GHz	19.77	CISPR Averag	-34.23
2	3.525500000 GHz	32.69	Max Peak	
1	4.758750000 GHz	22.08	CISPR Averag	-31.92
2	4.758750000 GHz	34.17	Max Peak	
1	6.386250000 GHz	25.89	CISPR Averag	-28.11
2	6.386250000 GHz	37.94	Max Peak	
1	8.784000000 GHz	27.80	CISPR Averag	-26.20
2	8.784000000 GHz	40.89	Max Peak	
1	12.356000000 GHz	32.35	CISPR Averag	-21.65
2	12.356000000 GHz	44.49	Max Peak	

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RADIATED SPURIOUS EMISSIONS

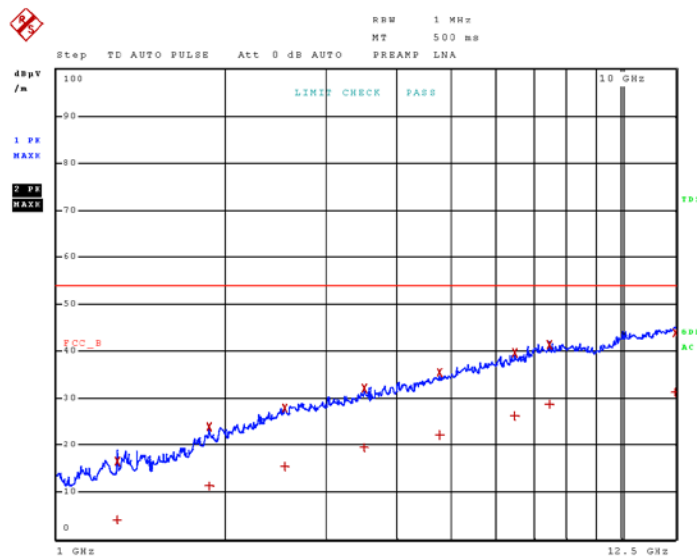
Test Data: Middle of Band 500 MHz Field Strength Plot, Vert. Polarity

10.Apr 18 15:31

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 500 MHz Field Strength Table, Vert. Polarity

10.Apr 18 15:31

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.278000000 GHz	4.14	CISPR Averag	-49.86
2	1.278000000 GHz	16.59	Max Peak	
1	1.865250000 GHz	11.23	CISPR Averag	-42.77
2	1.865250000 GHz	23.74	Max Peak	
1	2.541000000 GHz	15.53	CISPR Averag	-38.47
2	2.541000000 GHz	27.81	Max Peak	
1	3.511250000 GHz	19.52	CISPR Averag	-34.48
2	3.511250000 GHz	32.12	Max Peak	
1	4.775250000 GHz	22.22	CISPR Averag	-31.78
2	4.775250000 GHz	35.35	Max Peak	
1	6.491750000 GHz	26.11	CISPR Averag	-27.89
2	6.491750000 GHz	39.57	Max Peak	
1	7.473000000 GHz	28.77	CISPR Averag	-25.23
2	7.473000000 GHz	41.32	Max Peak	
1	12.493000000 GHz	31.11	CISPR Averag	-22.89
2	12.493000000 GHz	43.87	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

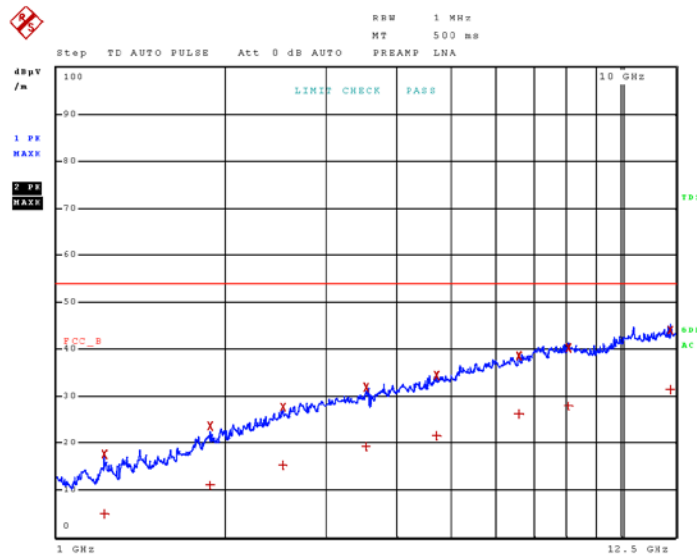
Test Data: High End of Band 960 MHz Field Strength Plot, Horiz. Polarity

10.Apr 18 15:26

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Horiz. Polarity

10.Apr 18 15:26

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.215500000 GHz	4.95	CISPR Averag	-49.05
2	1.215500000 GHz	17.46	Max Peak	
1	1.875500000 GHz	10.96	CISPR Averag	-43.04
2	1.875500000 GHz	23.63	Max Peak	
1	2.514250000 GHz	15.32	CISPR Averag	-38.68
2	2.514250000 GHz	27.55	Max Peak	
1	3.529000000 GHz	19.31	CISPR Averag	-34.69
2	3.529000000 GHz	31.89	Max Peak	
1	4.703250000 GHz	21.63	CISPR Averag	-32.37
2	4.703250000 GHz	34.41	Max Peak	
1	6.591250000 GHz	26.21	CISPR Averag	-27.79
2	6.591250000 GHz	38.47	Max Peak	
1	8.083500000 GHz	27.78	CISPR Averag	-26.22
2	8.083500000 GHz	40.21	Max Peak	
1	12.238750000 GHz	31.38	CISPR Averag	-22.62
2	12.238750000 GHz	43.94	Max Peak	

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RADIATED SPURIOUS EMISSIONS

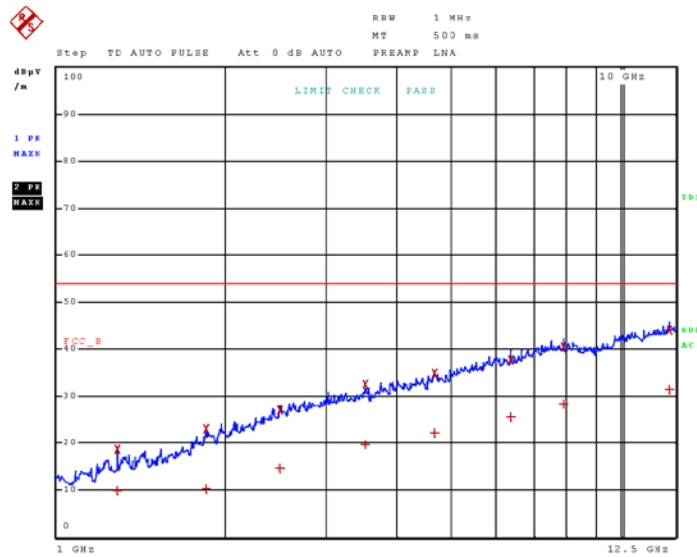
Test Data: High End of Band 960 MHz Field Strength Plot, Vert. Polarity

10.Apr 18 15:28

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 960 MHz Field Strength Table, Vert. Polarity

10.Apr 18 15:28

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBuV/m)	Detector	Delta Limit/dB
1	1.278000000 GHz	9.71	CISPR Averag	-44.29
2	1.278000000 GHz	18.54	Max Peak	
1	1.842750000 GHz	10.17	CISPR Averag	-43.83
2	1.842750000 GHz	22.93	Max Peak	
1	2.482500000 GHz	14.50	CISPR Averag	-39.50
2	2.482500000 GHz	27.09	Max Peak	
1	3.518000000 GHz	19.57	CISPR Averag	-34.43
2	3.518000000 GHz	32.36	Max Peak	
1	4.672000000 GHz	22.15	CISPR Averag	-31.85
2	4.672000000 GHz	34.84	Max Peak	
1	6.385750000 GHz	25.58	CISPR Averag	-28.42
2	6.385750000 GHz	37.78	Max Peak	
1	7.916000000 GHz	28.19	CISPR Averag	-25.81
2	7.916000000 GHz	40.49	Max Peak	
1	12.221750000 GHz	31.30	CISPR Averag	-22.70
2	12.221750000 GHz	44.11	Max Peak	

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ANTENNA CONDUCTED POWER

Rule Part No.: FCC Part 15 Subpart B

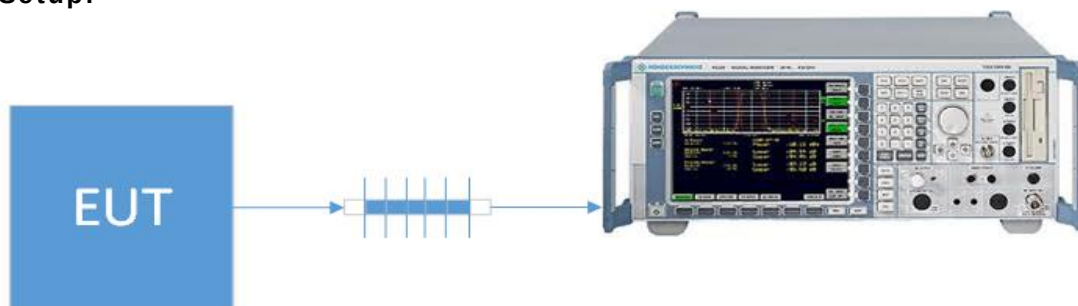
Requirements: FCC Part 15.111(a) Antenna power conduction limits for receivers
In addition to the radiated emission limits. Receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of §15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna. Provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in §15.33 shall not exceed 2.0 nanowatts.

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements
FCC Part 15.35(a) Measurement detector functions and bandwidths
ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz

§ 12.2.2 Operating conditions
§ 12.2.6 Antenna-conducted power measurements

Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped, all while the antenna terminals are connected to a EMI receiver through a 50 Ω coaxial cable.

Setup:



Results: N/A

ANALOGUE POWER LINE CONDUCTED INTERFERENCE

Rules Part No.: Part 15.107

Requirements:

Frequency (MHz)	Quasi Peak Limits (dB μ V)	Average Limits (dB μ V)
0.15 – 0.5	66 – 56 *	56 – 46 *
0.5 – 5.0	56	46
5.0 – 30	60	50
* Decrease with logarithm of frequency		

Test Data: The following plots represent the emissions for power line conducted. Both lines were observed. 120 Volts AC 60 Hz supply voltage was used for all tests

ANALOGUE POWER LINE CONDUCTED INTERFERENCE

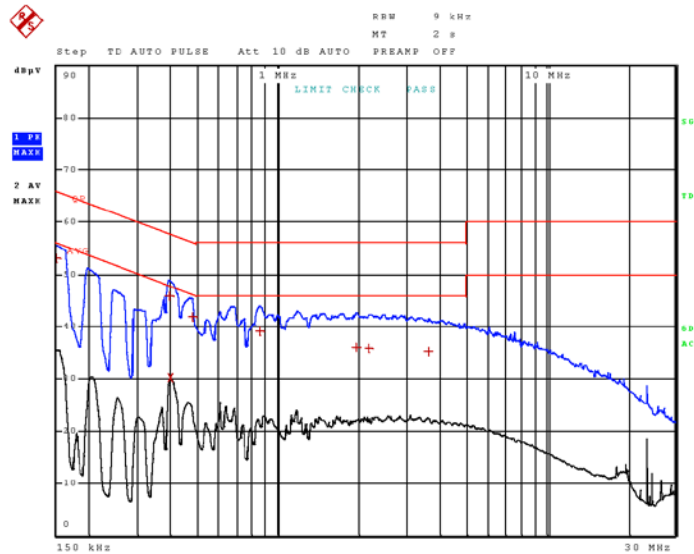
Test Data: Scanning, Line 1 Peak Plot

11.Apr 18 09:53

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	53.08	Quasi Peak	-12.92
1	393.000000000 kHz	45.86	Quasi Peak	-12.14
2	397.500000000 kHz	30.15	Average	-17.75
1	476.250000000 kHz	41.95	Quasi Peak	-14.45
1	852.000000000 kHz	38.95	Quasi Peak	-17.05
1	1.943250000 MHz	36.05	Quasi Peak	-19.95
1	2.177250000 MHz	35.82	Quasi Peak	-20.18
1	3.633000000 MHz	35.28	Quasi Peak	-20.72

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Results Meets Requirements

Applicant: AOR USA INC.
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POWER LINE CONDUCTED INTERFERENCE

Test Data: Scanning, Line 1 Peak Plot Table

11 Apr 18 09:53

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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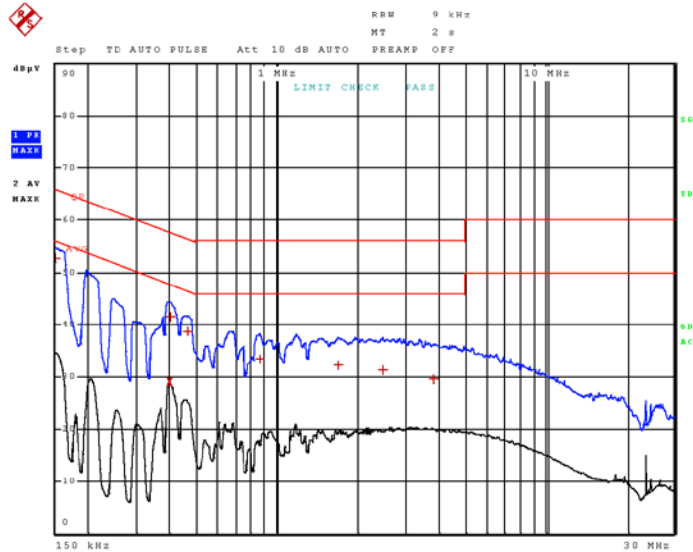
Test Data: Scanning, Line 2 Peak Plot

11.Apr 18 09:56

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.64	Quasi Peak	-13.36
2	395.250000000 kHz	29.08	Average	-18.87
1	399.750000000 kHz	41.59	Quasi Peak	-16.27
1	462.750000000 kHz	38.58	Quasi Peak	-18.07
1	861.000000000 kHz	33.41	Quasi Peak	-22.59
1	1.682250000 MHz	32.22	Quasi Peak	-23.78
1	2.463000000 MHz	31.23	Quasi Peak	-24.77
1	3.804000000 MHz	29.50	Quasi Peak	-26.50

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Scanning, Line 2 Peak Plot Table

11 Apr 18 09:56

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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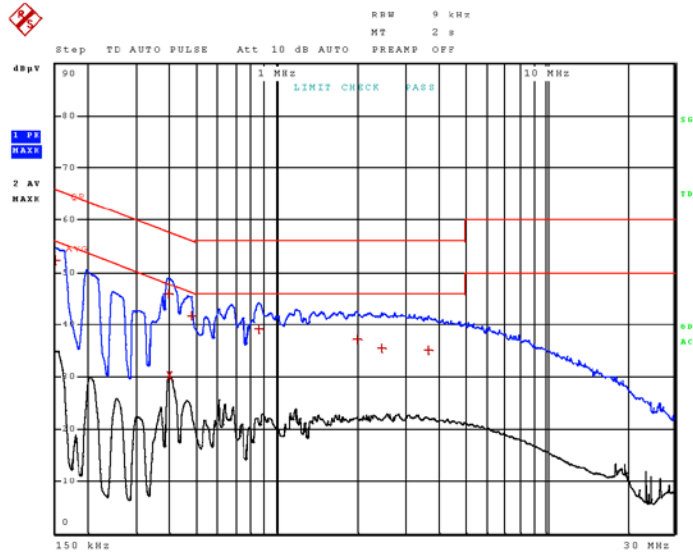
Test Data: Tuned to 30 MHz, Line 1 Peak Plot

11.Apr 18 10:19

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.25	Quasi Peak	-13.75
1	393.000000000 kHz	45.89	Quasi Peak	-12.11
2	397.500000000 kHz	30.15	Average	-17.75
1	478.500000000 kHz	41.78	Quasi Peak	-14.58
1	856.500000000 kHz	39.00	Quasi Peak	-17.00
1	1.977000000 MHz	37.23	Quasi Peak	-18.77
1	2.458500000 MHz	35.42	Quasi Peak	-20.58
1	3.637500000 MHz	35.00	Quasi Peak	-21.00

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 30 MHz, Line 1 Peak Plot Table

11 Apr 18 10:19

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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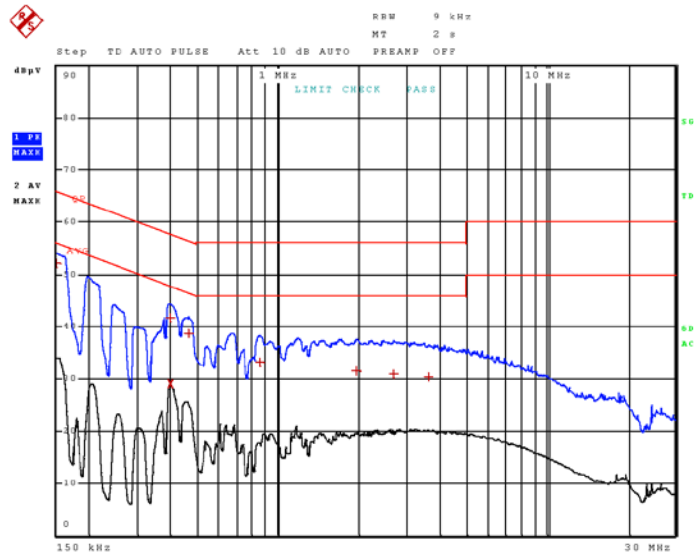
Test Data: Tuned to 30 MHz, Line 2 Peak Plot

11.Apr 18 10:21

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.00	Quasi Peak	-14.00
1	395.250000000 kHz	41.61	Quasi Peak	-16.34
2	395.250000000 kHz	28.95	Average	-19.00
1	460.500000000 kHz	38.58	Quasi Peak	-18.11
1	854.250000000 kHz	33.09	Quasi Peak	-22.91
1	1.954500000 MHz	31.54	Quasi Peak	-24.46
1	2.688000000 MHz	30.90	Quasi Peak	-25.10
1	3.606000000 MHz	30.30	Quasi Peak	-25.70

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 30 MHz, Line 2 Peak Plot Table

11 Apr 18 10:21

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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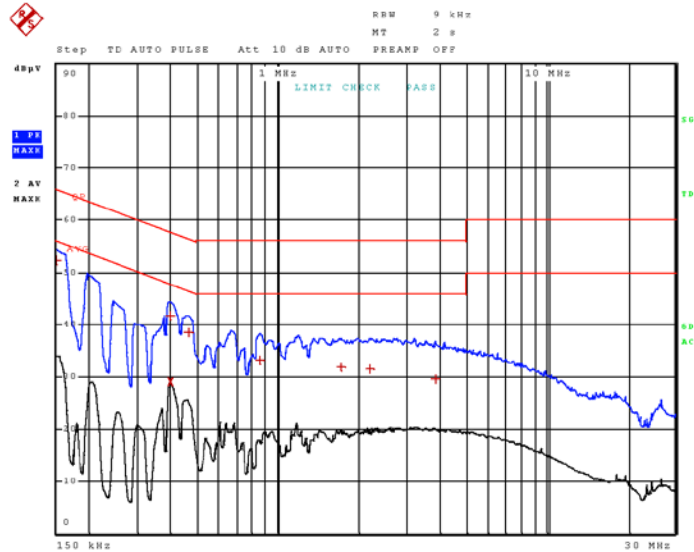
Test Data: Tuned to 100 MHz, Line 1 Peak Plot

11.Apr 18 10:09

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.22	Quasi Peak	-13.78
2	395.250000000 kHz	28.99	Average	-18.97
1	397.500000000 kHz	41.65	Quasi Peak	-16.26
1	462.750000000 kHz	38.45	Quasi Peak	-18.19
1	856.500000000 kHz	33.20	Quasi Peak	-22.80
1	1.709250000 MHz	31.87	Quasi Peak	-24.13
1	2.190750000 MHz	31.41	Quasi Peak	-24.59
1	3.844500000 MHz	29.53	Quasi Peak	-26.47

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 100 MHz, Line 1 Peak Plot Table

11 Apr 18 10:09

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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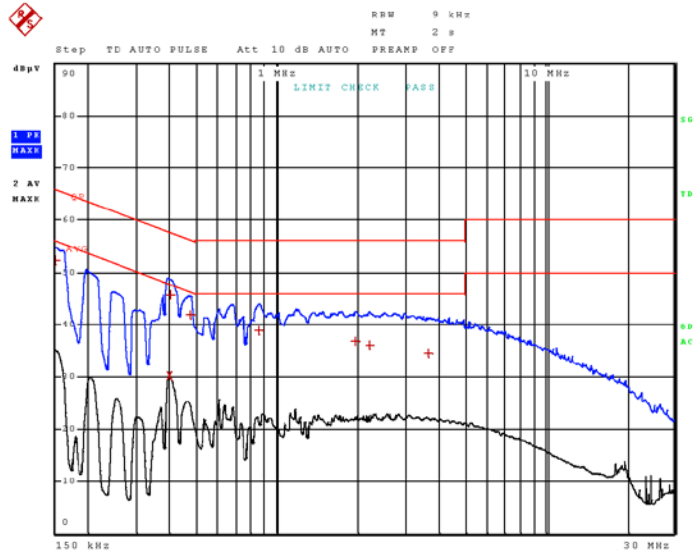
Test Data: Tuned to 100 MHz, Line 2 Peak Plot

11.Apr 18 10:13

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.33	Quasi Peak	-13.67
2	397.500000000 kHz	30.11	Average	-17.80
1	399.750000000 kHz	45.75	Quasi Peak	-12.11
1	474.000000000 kHz	41.92	Quasi Peak	-14.53
1	856.500000000 kHz	38.91	Quasi Peak	-17.09
1	1.947750000 MHz	36.73	Quasi Peak	-19.27
1	2.204250000 MHz	36.03	Quasi Peak	-19.97
1	3.655500000 MHz	34.50	Quasi Peak	-21.50

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Results Meets Requirements

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 100 MHz, Line 2 Peak Plot Table

11 Apr 18 10:13

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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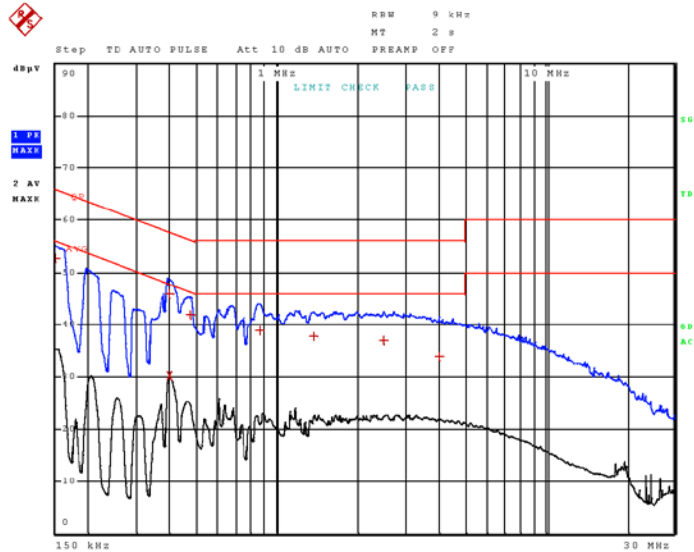
Test Data: Tuned to 500 MHz, Line 1 Peak Plot

11.Apr 18 10:03

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.62	Quasi Peak	-13.38
1	395.250000000 kHz	45.80	Quasi Peak	-12.15
2	395.250000000 kHz	30.14	Average	-17.81
1	471.750000000 kHz	41.95	Quasi Peak	-14.53
1	858.750000000 kHz	38.95	Quasi Peak	-17.05
1	1.362750000 MHz	37.76	Quasi Peak	-18.24
1	2.481000000 MHz	36.91	Quasi Peak	-19.09
1	3.999750000 MHz	33.91	Quasi Peak	-22.09

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 500 MHz, Line 1 Peak Plot Table

11 Apr 18 10:03

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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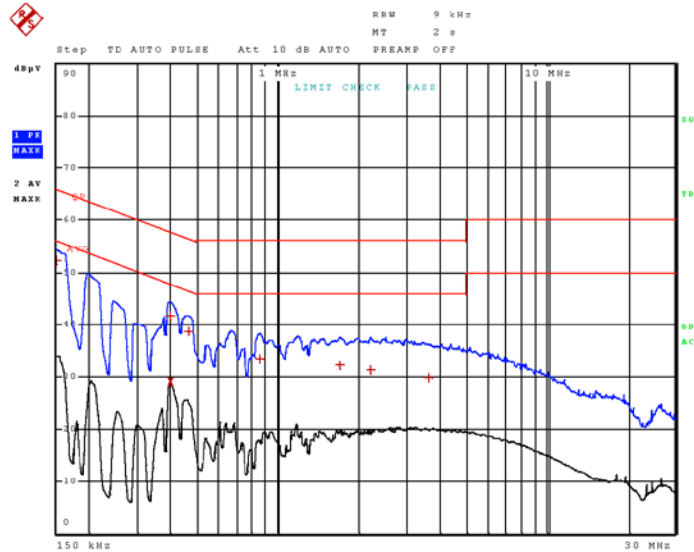
Test Data: Tuned to 500 MHz, Line 2 Peak Plot

11.Apr 18 10:06

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.25	Quasi Peak	-13.75
2	395.250000000 kHz	28.98	Average	-18.97
1	397.500000000 kHz	41.67	Quasi Peak	-16.24
1	460.500000000 kHz	38.59	Quasi Peak	-18.09
1	849.750000000 kHz	33.40	Quasi Peak	-22.60
1	1.693500000 MHz	32.23	Quasi Peak	-23.77
1	2.206500000 MHz	31.26	Quasi Peak	-24.74
1	3.619500000 MHz	29.73	Quasi Peak	-26.27

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Results Meets Requirements

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 500 MHz, Line 2 Peak Plot Table

11 Apr 18 10:06

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

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POWER LINE CONDUCTED INTERFERENCE

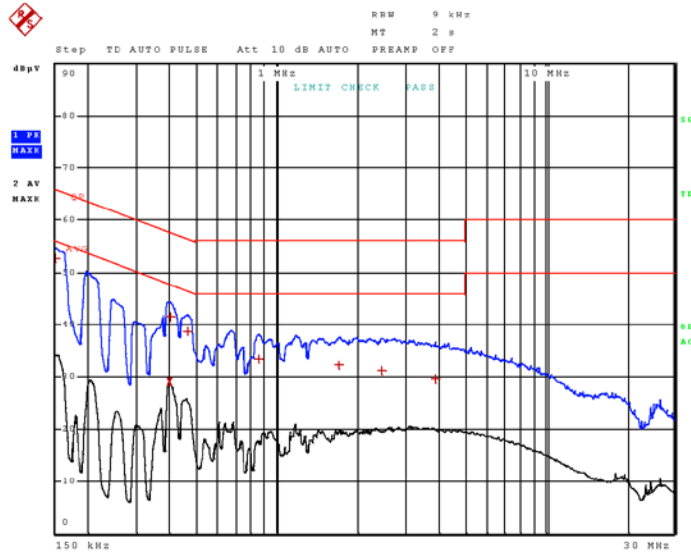
Test Data: Tuned to 960 MHz, Line 1 Peak Plot

11.Apr 18 09:58

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.57	Quasi Peak	-13.43
2	395.250000000 kHz	29.03	Average	-18.92
1	399.750000000 kHz	41.53	Quasi Peak	-16.32
1	460.500000000 kHz	38.63	Quasi Peak	-18.06
1	852.000000000 kHz	33.28	Quasi Peak	-22.72
1	1.693500000 MHz	32.23	Quasi Peak	-23.77
1	2.447250000 MHz	31.14	Quasi Peak	-24.86
1	3.860250000 MHz	29.56	Quasi Peak	-26.44

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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
Report: 467AUT18TestReport_FCC_Rev1

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 960 MHz, Line 1 Peak Plot Table

11 Apr 18 09:58

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

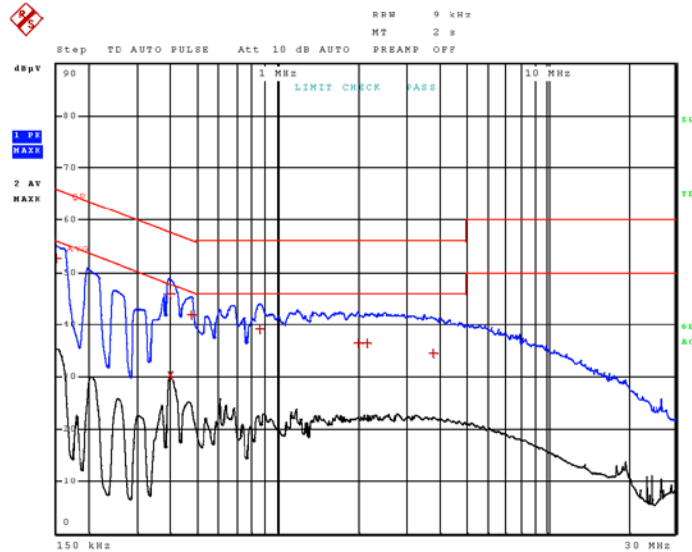
Test Data: Tuned to 960 MHz, Line 2 Peak Plot

11.Apr 18 10:01

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.66	Quasi Peak	-13.34
1	395.250000000 kHz	45.76	Quasi Peak	-12.19
2	395.250000000 kHz	30.12	Average	-17.83
1	471.750000000 kHz	41.95	Quasi Peak	-14.54
1	852.000000000 kHz	39.10	Quasi Peak	-16.90
1	1.988250000 MHz	36.40	Quasi Peak	-19.60
1	2.145750000 MHz	36.48	Quasi Peak	-19.52
1	3.774750000 MHz	34.42	Quasi Peak	-21.58

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Results Meets Requirements

Applicant: AOR USA INC.
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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 960 MHz, Line 2 Peak Plot Table

11 Apr 18 10:01

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
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DIGITAL POWER LINE CONDUCTED INTERFERENCE

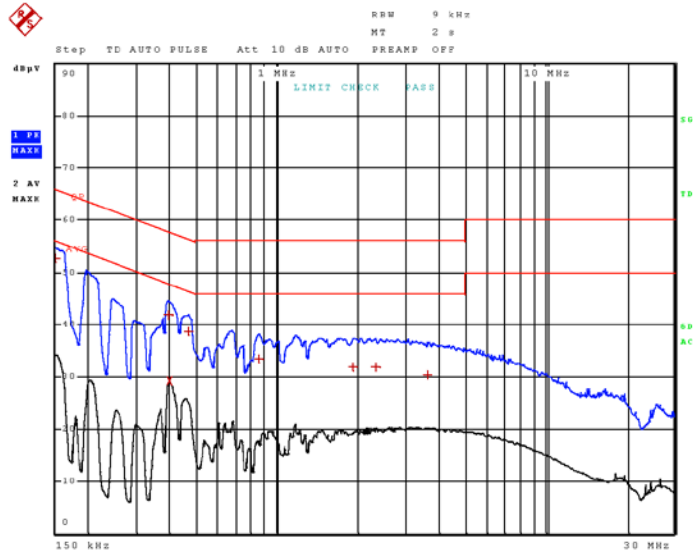
Test Data: Scanning, Line 1 Peak Plot

11.Apr 18 09:41

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.68	Quasi Peak	-13.32
1	393.000000000 kHz	41.80	Quasi Peak	-16.20
2	395.250000000 kHz	29.18	Average	-18.77
1	465.000000000 kHz	38.70	Quasi Peak	-17.90
1	849.750000000 kHz	33.29	Quasi Peak	-22.71
1	1.914000000 MHz	31.86	Quasi Peak	-24.14
1	2.328000000 MHz	31.84	Quasi Peak	-24.16
1	3.612750000 MHz	30.39	Quasi Peak	-25.61

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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
Report: 467AUT18TestReport_FCC_Rev1

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Scanning, Line 1 Peak Plot Table

11 Apr 18 09:41

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

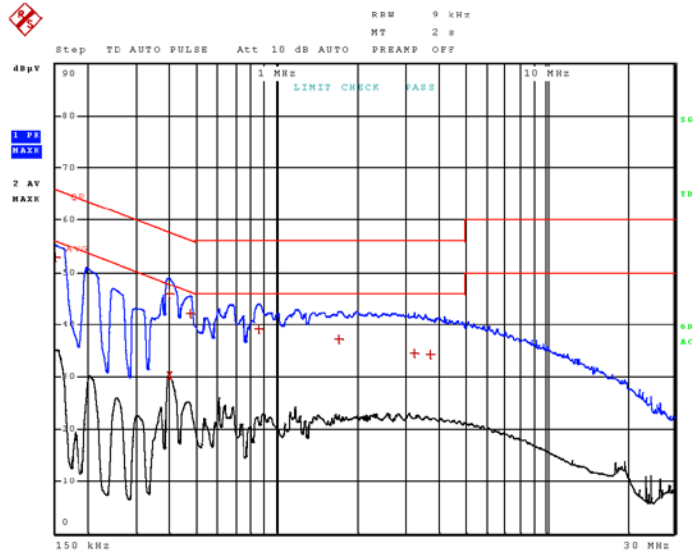
Test Data: Scanning, Line 2 Peak Plot

11.Apr 18 09:43

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	52.78	Quasi Peak	-13.22
2	395.250000000 kHz	30.23	Average	-17.73
1	397.500000000 kHz	45.92	Quasi Peak	-11.99
1	471.750000000 kHz	42.10	Quasi Peak	-14.38
1	856.500000000 kHz	39.02	Quasi Peak	-16.98
1	1.702500000 MHz	37.21	Quasi Peak	-18.79
1	3.228000000 MHz	34.58	Quasi Peak	-21.42
1	3.716250000 MHz	34.31	Quasi Peak	-21.69

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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
Report: 467AUT18TestReport_FCC_Rev1

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Scanning, Line 2 Peak Plot Table

11 Apr 18 09:43

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
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POWER LINE CONDUCTED INTERFERENCE

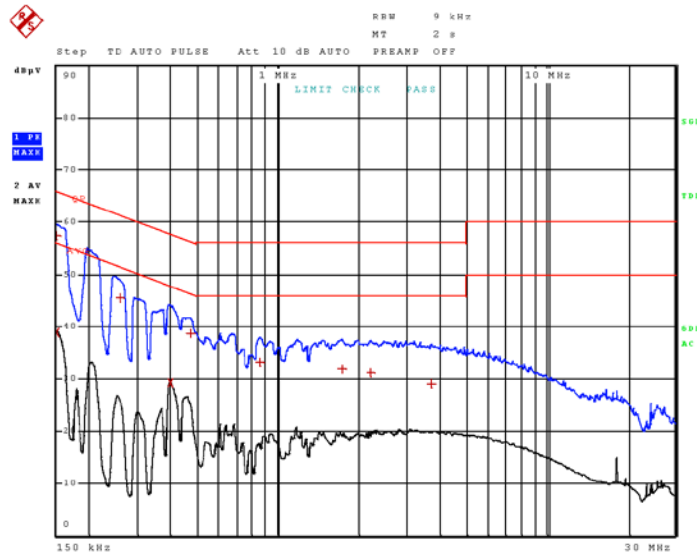
Test Data: Tuned to 1.7 MHz, Line 1 Peak Plot

11.Apr 18 09:15

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

Applicant: AOR USA INC.
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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 1.7 MHz, Line 1 Peak Plot Table

11.Apr 18 09:15

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 9

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	57.29	Quasi Peak	-8.71
2	150.000000000 kHz	38.81	Average	-17.19
1	255.750000000 kHz	45.44	Quasi Peak	-16.13
2	395.250000000 kHz	29.26	Average	-18.69
1	469.500000000 kHz	38.62	Quasi Peak	-17.91
1	856.500000000 kHz	33.21	Quasi Peak	-22.79
1	1.725000000 MHz	31.94	Quasi Peak	-24.06
1	2.220000000 MHz	31.10	Quasi Peak	-24.90
1	3.714000000 MHz	29.02	Quasi Peak	-26.98

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
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POWER LINE CONDUCTED INTERFERENCE

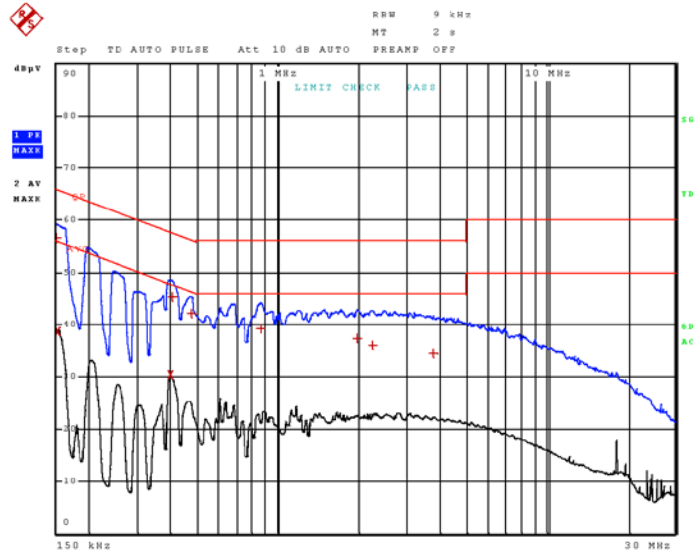
Test Data: Tuned to 1.7 MHz, Line 2 Peak Plot

11.Apr 18 09:17

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 1.7 MHz, Line 2 Peak Plot Table

11.Apr 18 09:17

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 9

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	56.68	Quasi Peak	-9.32
2	152.250000000 kHz	38.68	Average	-17.19
2	395.250000000 kHz	30.31	Average	-17.64
1	402.000000000 kHz	45.25	Quasi Peak	-12.56
1	474.000000000 kHz	41.99	Quasi Peak	-14.45
1	863.250000000 kHz	39.18	Quasi Peak	-16.82
1	1.961250000 MHz	37.30	Quasi Peak	-18.70
1	2.253750000 MHz	36.09	Quasi Peak	-19.91
1	3.763500000 MHz	34.48	Quasi Peak	-21.52

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
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POWER LINE CONDUCTED INTERFERENCE

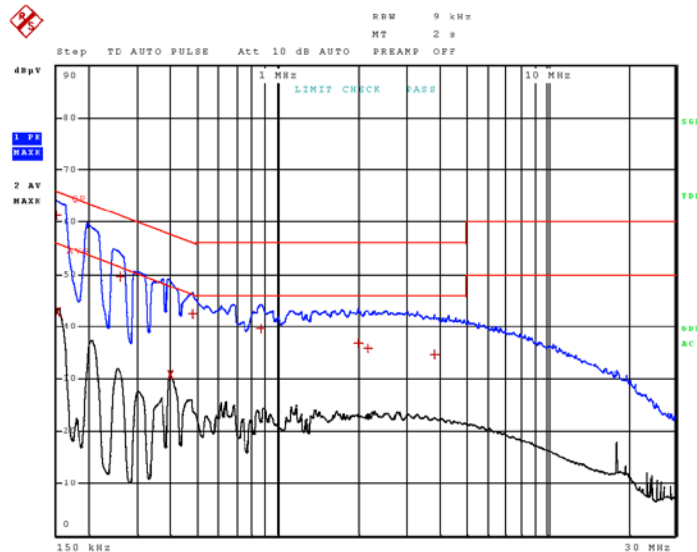
Test Data: Tuned to 10 MHz, Line 1 Peak Plot

11.Apr 18 09:09

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 10 MHz, Line 1 Peak Plot Table

11.Apr 18 09:09

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 9

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	61.34	Quasi Peak	-4.66
2	152.250000000 kHz	42.90	Average	-12.98
1	255.750000000 kHz	49.54	Quasi Peak	-12.03
2	395.250000000 kHz	30.73	Average	-17.23
1	476.250000000 kHz	42.43	Quasi Peak	-13.98
1	863.250000000 kHz	39.59	Quasi Peak	-16.41
1	1.997250000 MHz	36.76	Quasi Peak	-19.24
1	2.157000000 MHz	35.76	Quasi Peak	-20.24
1	3.822000000 MHz	34.63	Quasi Peak	-21.37

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

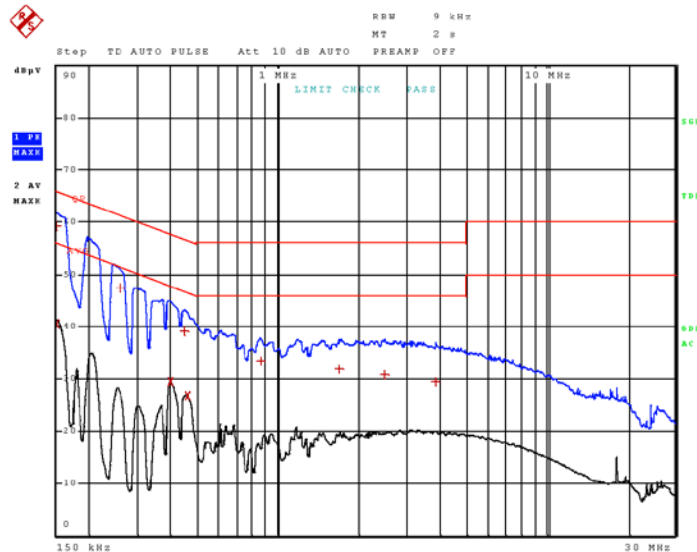
Test Data: Tuned to 10 MHz, Line 2 Peak Plot

11.Apr 18 09:11

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 10 MHz, Line 2 Peak Plot Table

11.Apr 18 09:11

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 10

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	59.22	Quasi Peak	-6.78
2	150.000000000 kHz	40.51	Average	-15.49
1	255.750000000 kHz	47.34	Quasi Peak	-14.22
2	395.250000000 kHz	29.49	Average	-18.46
1	444.750000000 kHz	39.03	Quasi Peak	-17.95
2	456.000000000 kHz	26.79	Average	-19.98
1	861.000000000 kHz	33.28	Quasi Peak	-22.72
1	1.691250000 MHz	31.85	Quasi Peak	-24.15
1	2.496750000 MHz	30.81	Quasi Peak	-25.19
1	3.846750000 MHz	29.37	Quasi Peak	-26.63

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

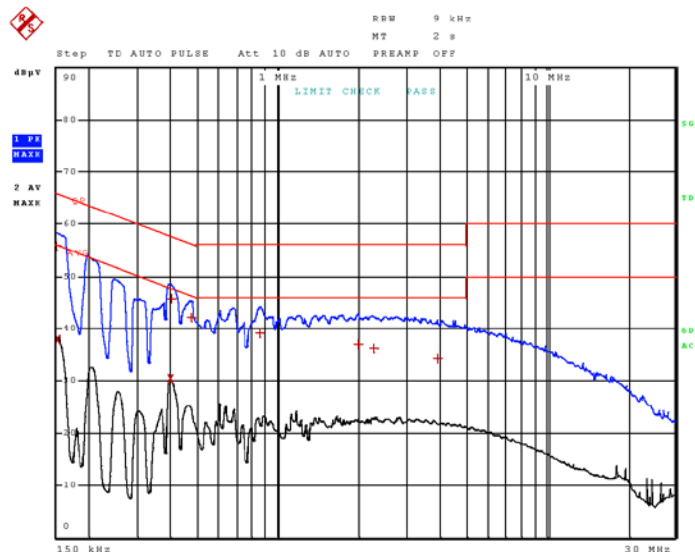
Test Data: Tuned to 100 MHz, Line 1 Peak Plot

11.Apr 18 09:19

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

Applicant: AOR USA INC.
FCC ID: NVJARDV10
Report: 467AUT18TestReport_FCC_Rev1

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 100 MHz, Line 1 Peak Plot Table

11.Apr 18 09:19

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 9

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	55.89	Quasi Peak	-10.11
2	152.250000000 kHz	37.94	Average	-17.93
2	395.250000000 kHz	30.29	Average	-17.66
1	399.750000000 kHz	45.57	Quasi Peak	-12.29
1	474.000000000 kHz	42.00	Quasi Peak	-14.44
1	856.500000000 kHz	38.95	Quasi Peak	-17.05
1	1.988250000 MHz	36.91	Quasi Peak	-19.09
1	2.260500000 MHz	36.28	Quasi Peak	-19.72
1	3.891750000 MHz	34.38	Quasi Peak	-21.62

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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FCC ID: NVJARDV10
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POWER LINE CONDUCTED INTERFERENCE

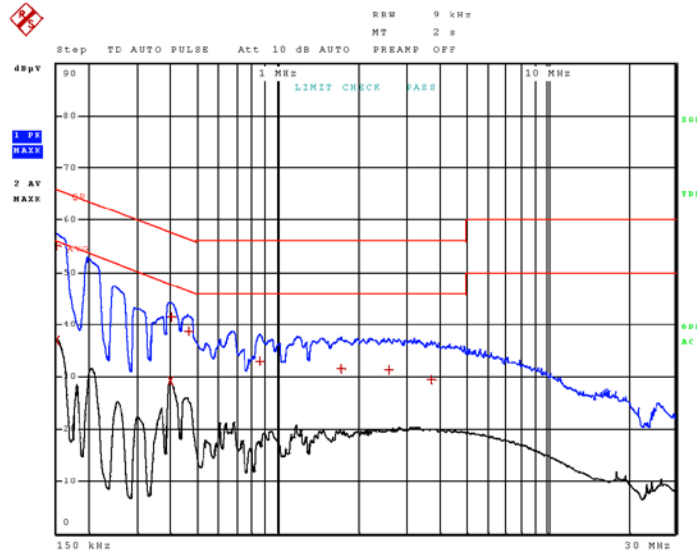
Test Data: Tuned to 100 MHz, Line 2 Peak Plot

11.Apr 18 09:21

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 100 MHz, Line 2 Peak Plot Table

11.Apr 18 09:21

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 9

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	55.11	Quasi Peak	-10.89
2	150.000000000 kHz	36.88	Average	-19.12
2	395.250000000 kHz	29.20	Average	-18.75
1	399.750000000 kHz	41.47	Quasi Peak	-16.38
1	462.750000000 kHz	38.61	Quasi Peak	-18.03
1	852.000000000 kHz	33.04	Quasi Peak	-22.96
1	1.718250000 MHz	31.54	Quasi Peak	-24.46
1	2.580000000 MHz	31.30	Quasi Peak	-24.70
1	3.700500000 MHz	29.37	Quasi Peak	-26.63

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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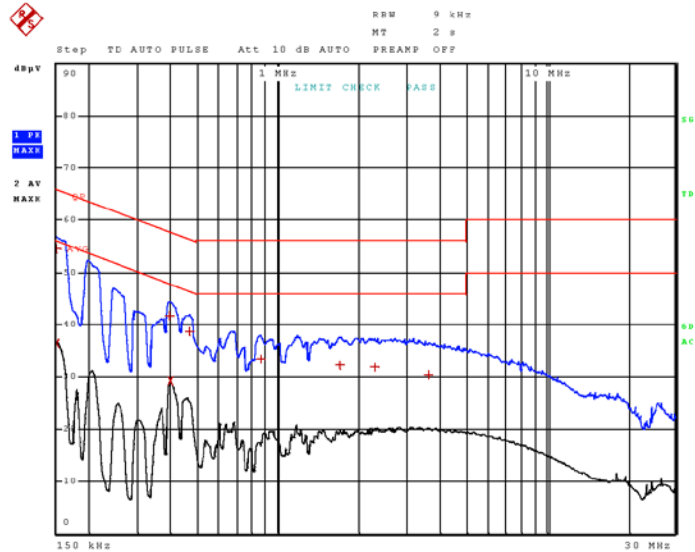
Test Data: Tuned to 500 MHz, Line 1 Peak Plot

11.Apr 18 09:24

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 500 MHz, Line 1 Peak Plot Table

11.Apr 18 09:24

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 9

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	54.59	Quasi Peak	-11.41
2	150.000000000 kHz	36.43	Average	-19.57
1	393.000000000 kHz	41.66	Quasi Peak	-16.34
2	395.250000000 kHz	29.18	Average	-18.77
1	465.000000000 kHz	38.67	Quasi Peak	-17.94
1	863.250000000 kHz	33.44	Quasi Peak	-22.56
1	1.704750000 MHz	32.27	Quasi Peak	-23.73
1	2.296500000 MHz	31.86	Quasi Peak	-24.14
1	3.610500000 MHz	30.25	Quasi Peak	-25.75

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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POWER LINE CONDUCTED INTERFERENCE

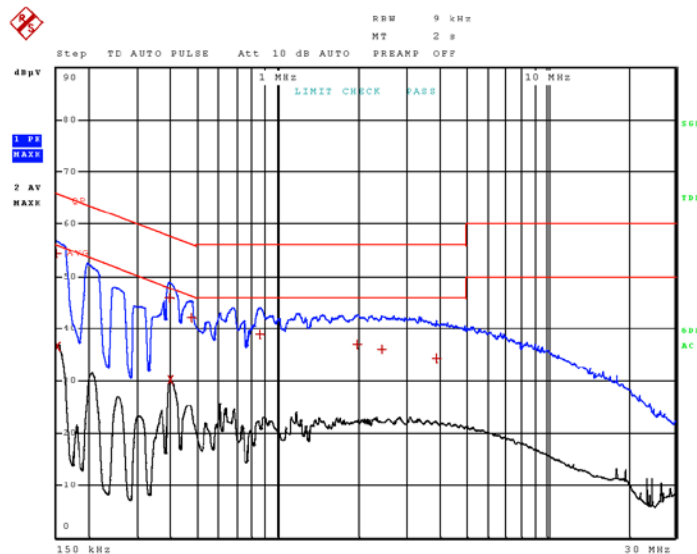
Test Data: Tuned to 500 MHz, Line 2 Peak Plot

11.Apr 18 09:26

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 500 MHz, Line 2 Peak Plot Table

11.Apr 18 09:26

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 9

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	54.27	Quasi Peak	-11.73
2	152.250000000 kHz	36.61	Average	-19.27
1	393.000000000 kHz	45.82	Quasi Peak	-12.18
2	395.250000000 kHz	30.25	Average	-17.71
1	471.750000000 kHz	42.07	Quasi Peak	-14.41
1	852.000000000 kHz	38.91	Quasi Peak	-17.09
1	1.963500000 MHz	37.05	Quasi Peak	-18.95
1	2.436000000 MHz	36.08	Quasi Peak	-19.92
1	3.869250000 MHz	34.39	Quasi Peak	-21.61

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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POWER LINE CONDUCTED INTERFERENCE

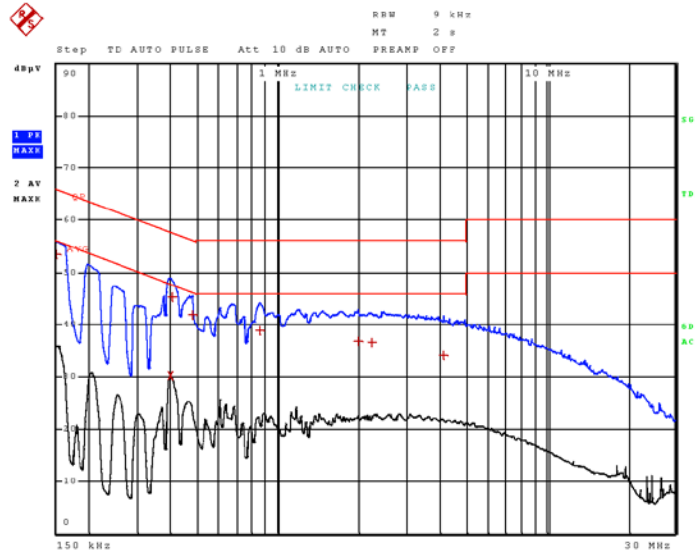
Test Data: Tuned to 960 MHz, Line 1 Peak Plot

11.Apr 18 09:32

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	53.49	Quasi Peak	-12.51
2	395.250000000 kHz	30.22	Average	-17.73
1	402.000000000 kHz	45.36	Quasi Peak	-12.45
1	476.250000000 kHz	41.92	Quasi Peak	-14.48
1	852.000000000 kHz	38.79	Quasi Peak	-17.21
1	1.972500000 MHz	36.86	Quasi Peak	-19.14
1	2.231250000 MHz	36.66	Quasi Peak	-19.34
1	4.107750000 MHz	34.13	Quasi Peak	-21.87

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 960 MHz, Line 1 Peak Plot Table

11 Apr 18 09:32

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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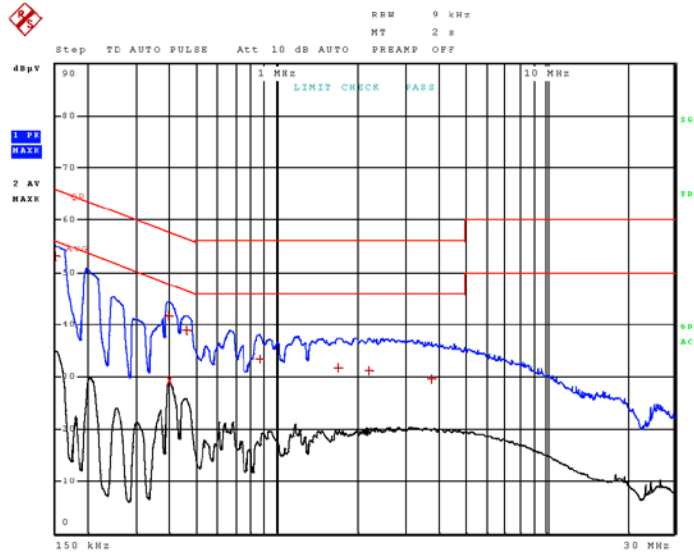
Test Data: Tuned to 960 MHz, Line 2 Peak Plot

11.Apr 18 09:35

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 8

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	150.000000000 kHz	53.04	Quasi Peak	-12.96
1	393.000000000 kHz	41.73	Quasi Peak	-16.27
2	395.250000000 kHz	29.13	Average	-18.82
1	458.250000000 kHz	38.80	Quasi Peak	-17.92
1	861.000000000 kHz	33.36	Quasi Peak	-22.64
1	1.689000000 MHz	31.75	Quasi Peak	-24.25
1	2.184000000 MHz	31.07	Quasi Peak	-24.93
1	3.741000000 MHz	29.53	Quasi Peak	-26.47

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POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 960 MHz, Line 2 Peak Plot Table

11 Apr 18 09:35

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconical 1096	Eaton	94455-1	1096	08/01/17	08/01/19
Antenna: Log-Periodic 1122	Electro-Metrics	LPA-25	1122	07/26/17	07/26/19
LISN (Primary)	Electro-Metrics	ANS-25/2	225363	08/26/17	08/26/19
CHAMBER	Panashield	3M	N/A	04/25/16	04/31/18
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	03/01/17	03/01/19
Software: Field Strength Program	Timco	N/A	Version 4.10.7.0	N/A	N/A
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	04/01/16	04/01/19
Coaxial Cable - BMBM-1000-00 Silver	Semflex	LISN Cable	BMBM-1000-00	01/05/17	01/05/18
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01; KMKM-0670-00; KFKF-0198-01	08/09/16	08/09/18
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A
Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	01/04/16	01/04/19

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

END OF TEST REPORT