849 NW State Road 45
Newberry, FL 32669 USA
Phone: 352.472.5500
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Website: www.timcoengr.com

FCC PART 15B / RSS-215

SCANNING RECEIVER TEST REPORT

Applicant	UNIDEN AMERICA CORPORATION
Address	6225 N. State High 161 Suite 300 Irving, TX 75038
FCC ID:	AMWUB361A
IC	513C-UB361A
Model Number	UB361A
Product Description	SCANNING RECEIVER
Date Sample Received	10/11/2019
Final Test Date	10/14/2019
Tested By	Tim Royer
Approved By	Franklin Rose
Test Results	☒ PASS ☐ FAIL

Report Number	Version Number	Description	Issue Date
2686UT19TestReport	Rev1	Initial Issue	10/15/2019

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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

Tested by:

Name and Title	Tim Royer, Project Manager / EMC Testing Engineer
Date	10/15/2019

Reviewed and Approved by:

Name and Title	Franklin Rose, Project Manager / EMC Testing Technician
Date	10/15/2019

GENERAL INFORMATION

EUT Description	**SCANNING RECEIVER**
FCC ID	**AMWUB361A**
IC	**513C-UB361A**
Model Number	**UB361A**
Range	0.1 – 956 MHz, Tri-Band Rx
Receiver Circuit Type	Superheterodyne
Lowest Internal Frequency	> 9 kHz
Antenna Connector	BNC
EUT Power Source	☐ 110–120Vac/50– 60Hz
	☒ 13.8 VDC Nominal (Optional)
	☐ Battery Operated Exclusively
Test Item	☐ Prototype
	☒ Pre-Production
	☐ Production
Modifications required for Testing	None
Test Site	Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #US1070 ISED CAB #US0111 ISED Test Site #2056A

REPORT SUMMARY

Regulatory Standard	CFR Title 47 FCC Rule part 15B § 15.109, 15.111, & 15.121, RSS-215 Issue 2, RSS-GEN Issue 4
Test Procedures	FCC Part 15.31, 15.33, 15.35 ANSI C63.4 – 2014
Operational Modes	Stopped at the Lowest, middle, and highest frequency of each frequency range. In addition, scanning all frequencies of tuning range.
Test Frequencies	25, 54, 108, 174, 406, 512, 806, 956 MHz
	Scan: 25 MHz to 956 MHz
Environmental Condition in the laboratory	Temperature: 24-26ºC Relative humidity: 50-65% Barometric Pressure: 1021 mb
Deviation from the standard / procedure	No deviation

RESULTS SUMMARY

Test Item	FCC Rule Part	RSS Specification	Result
Radiated Spurious Emissions	15.109	215 sec 5.1, GEN sec 7.1	Pass
15.111 Receiver Conducted Power	15.111(a)		N/A(1)
15.121 38 dB Rejection	15.121		N/A(2)
Powerline Conducted Emissions	15.107	215, sec 5.1, GEN sec 8.8	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 B, RSS-215 sec 5.1

Requirements: FCC Part 15.109(a), RSS GEN 7.1.2 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

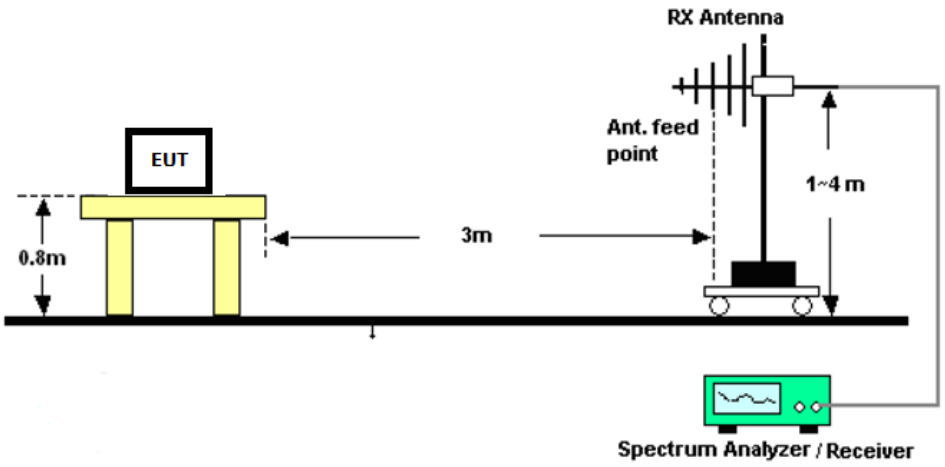
§ 6.2 Operating conditions
§ 6.3 Arrangement of EUT
§ 8.3.1 Exploratory radiated emissions measurements
§ 8.3.2 Final radiated emission measurements

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, all while the antenna terminals are terminated into a non-radiating 50 Ω load.

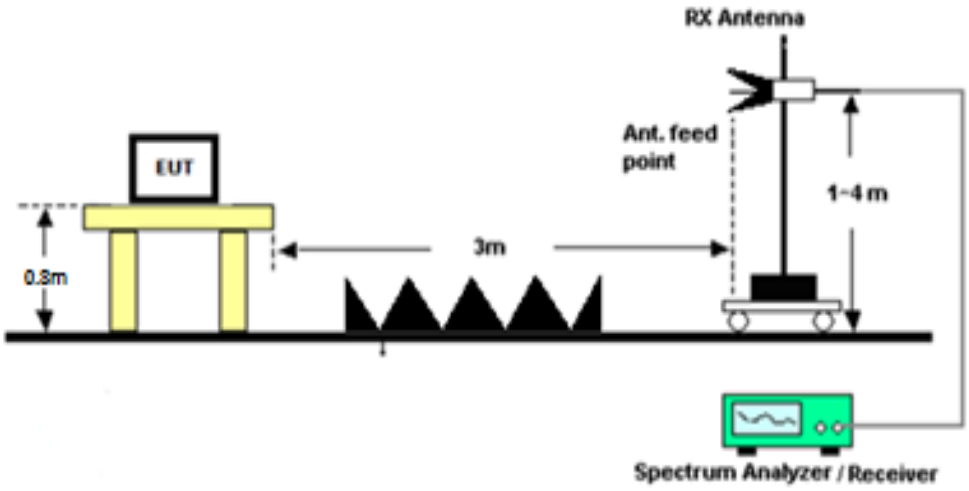
RADIATED SPURIOUS EMISSIONS

Setup:

Emissions 30 – 1000 MHz



Emissions above 1 GHz



RADIATED SPURIOUS EMISSIONS

Scanning Receiver Function

Test Data: 30-200MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 10:41

Test Spec CISPR 22 Radiated Disturbances

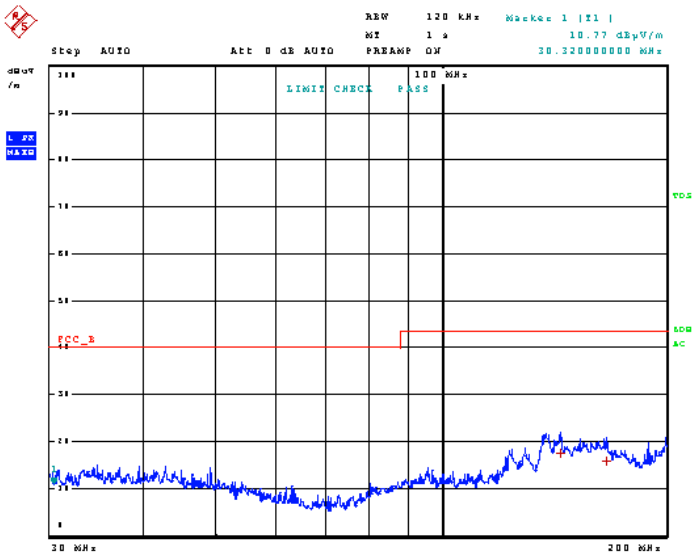
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 30-200MHz Field Strength Table, Horizontal Polarity

14.Oct 19 10:41

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	144.280000000 MHz	17.57	Quasi Peak	-25.93
1	166.200000000 MHz	15.84	Quasi Peak	-27.66

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RADIATED SPURIOUS EMISSIONS

Test Data: 30-200MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 10:32

Test Spec CISPR 22 Radiated Disturbances

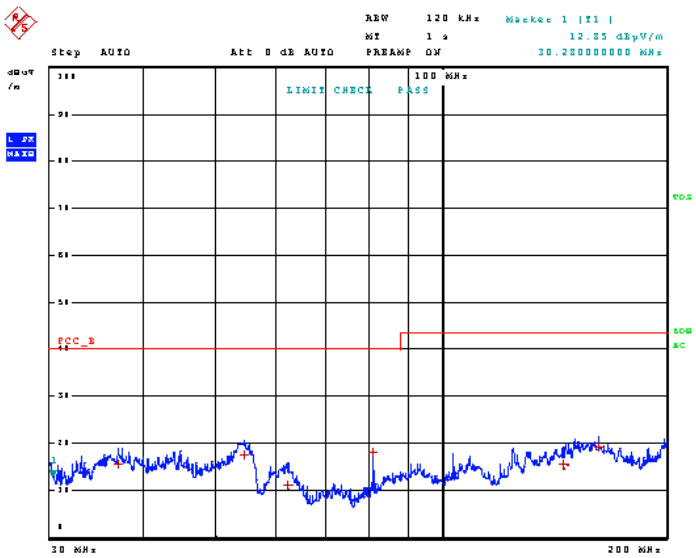
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 30-200MHz Field Strength Table, Vertical Polarity

14.Oct 19 10:32

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	36.960000000 MHz	15.67	Quasi Peak	-24.33
1	54.560000000 MHz	17.61	Quasi Peak	-22.39
1	62.360000000 MHz	11.07	Quasi Peak	-28.93
1	81.000000000 MHz	18.08	Quasi Peak	-21.92
1	145.760000000 MHz	15.42	Quasi Peak	-28.08
1	161.960000000 MHz	19.20	Quasi Peak	-24.30

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RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Plot, Horizon Polarity

ROHDE&SCHWARZ

14.Oct 19 10:00

Test Spec CISPR 22 Radiated Disturbances

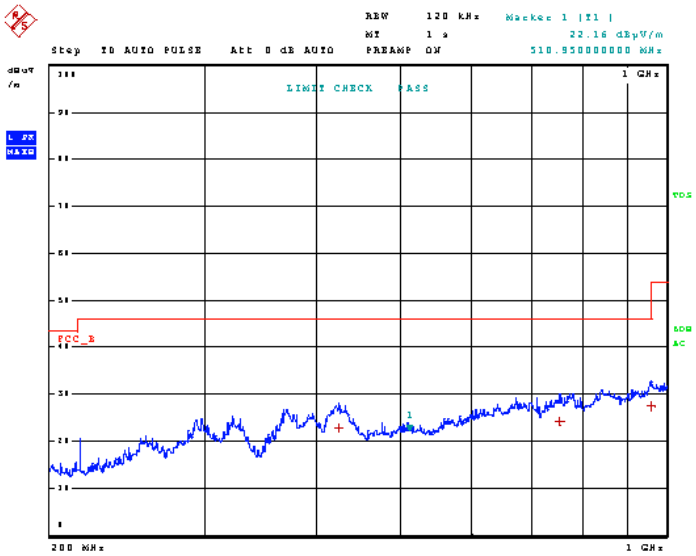
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Table, Horizon Polarity

14.Oct 19 10:00

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	424.310000000 MHz	22.72	Quasi Peak	-23.28
1	756.410000000 MHz	24.34	Quasi Peak	-21.66
1	959.600000000 MHz	27.46	Quasi Peak	-18.54

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RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 10:01

Test Spec CISPR 22 Radiated Disturbances

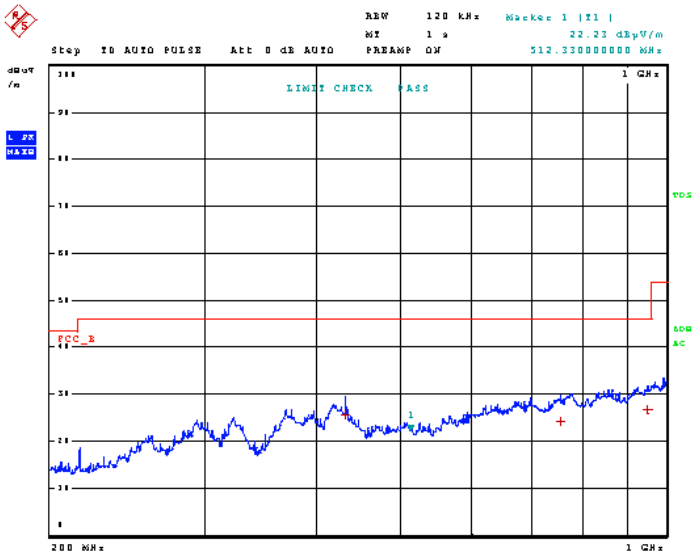
Polarity

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



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RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Table, Vertical Polarity

14.Oct 19 10:01

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	431.990000000 MHz	25.67	Quasi Peak	-20.33
1	758.960000000 MHz	24.25	Quasi Peak	-21.75
1	952.610000000 MHz	26.72	Quasi Peak	-19.28

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RADIATED SPURIOUS EMISSIONS

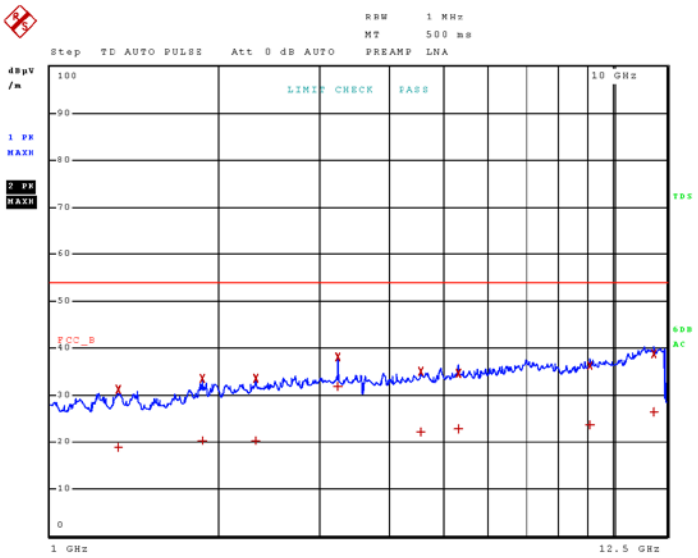
Test Data: 1-12.5GHz Field Strength Plot, Horizon Polarity

10.Oct 19 17:01

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_05

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 µs	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 1-12.5GHz Field Strength Table, Horizon Polarity

10.Oct 19 17:01

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.323250000 GHz	18.77	CISPR Averag	-35.23
2	1.323250000 GHz	31.21	Max Peak	
1	1.863250000 GHz	20.35	CISPR Averag	-33.65
2	1.863250000 GHz	33.58	Max Peak	
1	2.320750000 GHz	20.19	CISPR Averag	-33.81
2	2.320750000 GHz	33.45	Max Peak	
1	3.246000000 GHz	31.80	CISPR Averag	-22.20
2	3.246000000 GHz	38.17	Max Peak	
1	4.557250000 GHz	22.18	CISPR Averag	-31.82
2	4.557250000 GHz	34.89	Max Peak	
1	5.311000000 GHz	22.69	CISPR Averag	-31.31
2	5.311000000 GHz	34.63	Max Peak	
1	9.102500000 GHz	23.60	CISPR Averag	-30.40
2	9.102500000 GHz	36.14	Max Peak	
1	11.847000000 GHz	26.33	CISPR Averag	-27.67
2	11.847000000 GHz	38.82	Max Peak	

Page 2 of 2

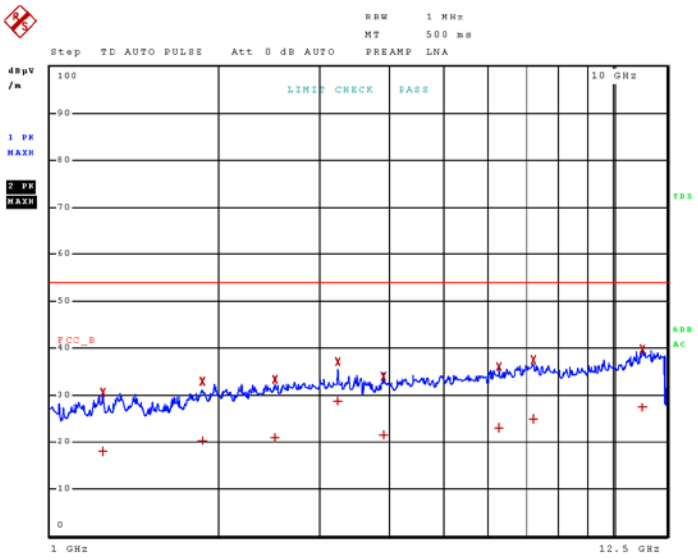
Test Data: 1-12.5GHz Field Strength Plot, Vertical Polarity

10.Oct 19 17:04

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_05

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 µs	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 1-12.5GHz Field Strength Table, Vertical Polarity

10.Oct 19 17:04

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.239000000 GHz	17.94	CISPR Averag	-36.06
2	1.239000000 GHz	30.48	Max Peak	
1	1.863000000 GHz	20.30	CISPR Averag	-33.70
2	1.863000000 GHz	32.81	Max Peak	
1	2.509750000 GHz	20.99	CISPR Averag	-33.01
2	2.509750000 GHz	33.40	Max Peak	
1	3.246000000 GHz	28.60	CISPR Averag	-25.40
2	3.246000000 GHz	37.03	Max Peak	
1	3.916250000 GHz	21.49	CISPR Averag	-32.51
2	3.916250000 GHz	33.98	Max Peak	
1	6.287500000 GHz	23.02	CISPR Averag	-30.98
2	6.287500000 GHz	36.10	Max Peak	
1	7.241000000 GHz	24.81	CISPR Averag	-29.19
2	7.241000000 GHz	37.43	Max Peak	
1	11.295750000 GHz	27.35	CISPR Averag	-26.65
2	11.295750000 GHz	39.73	Max Peak	

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RADIATED SPURIOUS EMISSIONS

Scanned 30 MHz to 200 MHz

Test Data: 25 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:05

Test Spec CISPR 22 Radiated Disturbances

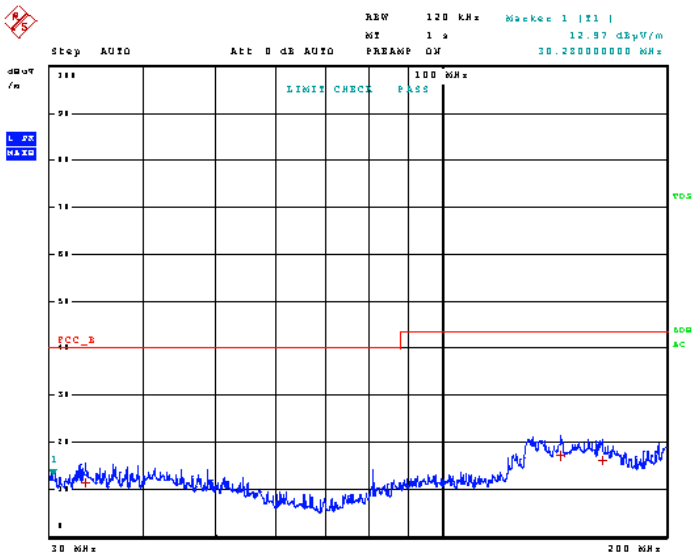
Polarity

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 µs	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:05

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	33.480000000 MHz	11.39	Quasi Peak	-28.61
1	144.520000000 MHz	17.14	Quasi Peak	-26.36
1	164.280000000 MHz	16.14	Quasi Peak	-27.36

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:06

Test Spec CISPR 22 Radiated Disturbances

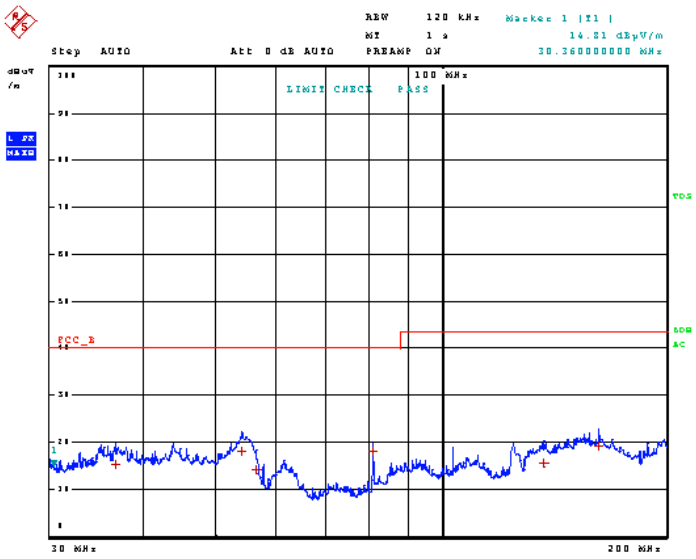
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:06

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	36.640000000 MHz	15.26	Quasi Peak	-24.74
1	54.120000000 MHz	18.22	Quasi Peak	-21.78
1	56.560000000 MHz	14.23	Quasi Peak	-25.77
1	81.000000000 MHz	18.16	Quasi Peak	-21.84
1	137.160000000 MHz	15.58	Quasi Peak	-27.92
1	161.960000000 MHz	19.31	Quasi Peak	-24.19

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:12

Test Spec CISPR 22 Radiated Disturbances

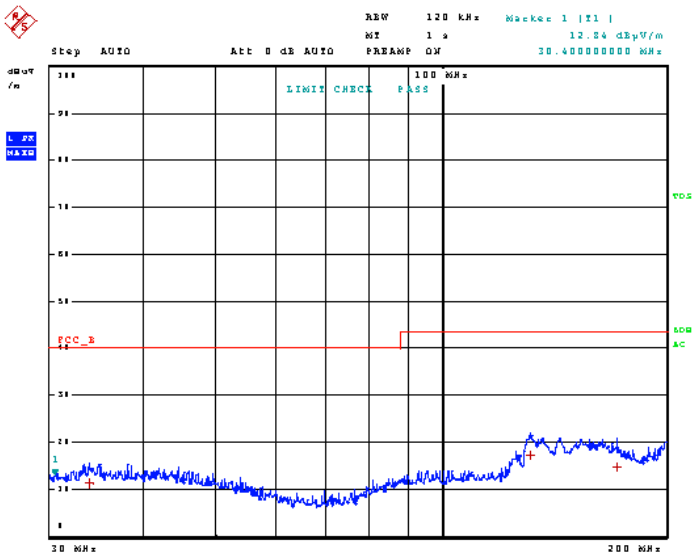
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:12

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	33.840000000 MHz	11.19	Quasi Peak	-28.81
1	131.280000000 MHz	17.38	Quasi Peak	-26.12
1	172.000000000 MHz	14.84	Quasi Peak	-28.66

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RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:09

Test Spec CISPR 22 Radiated Disturbances

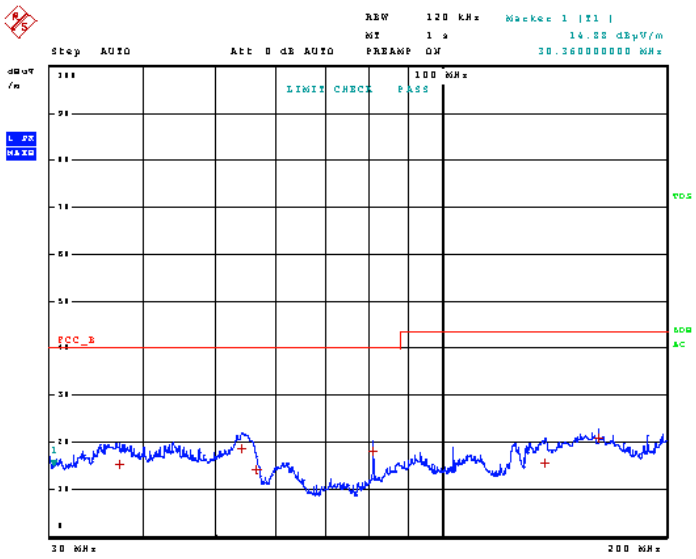
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:09

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	37.120000000 MHz	15.27	Quasi Peak	-24.73
1	54.000000000 MHz	18.67	Quasi Peak	-21.33
1	56.560000000 MHz	14.09	Quasi Peak	-25.91
1	81.000000000 MHz	18.14	Quasi Peak	-21.86
1	137.480000000 MHz	15.55	Quasi Peak	-27.95
1	162.000000000 MHz	20.89	Quasi Peak	-22.61

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RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:14

Test Spec CISPR 22 Radiated Disturbances

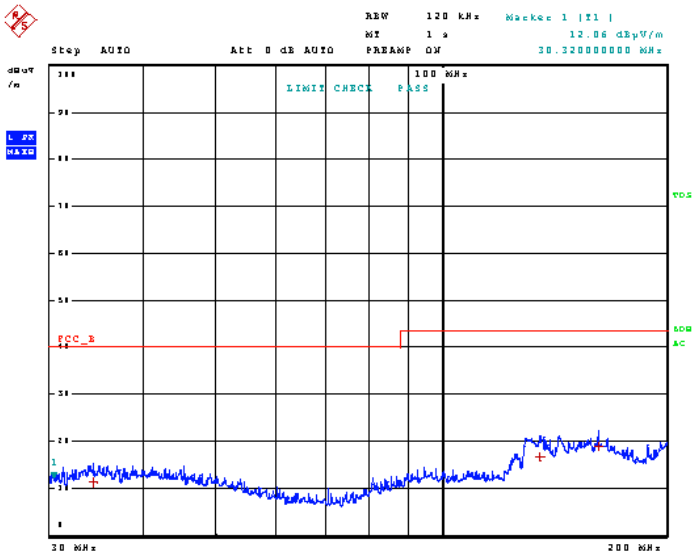
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:14

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	34.240000000 MHz	11.31	Quasi Peak	-28.69
1	135.320000000 MHz	16.62	Quasi Peak	-26.88
1	162.000000000 MHz	18.93	Quasi Peak	-24.57

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RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:15

Test Spec CISPR 22 Radiated Disturbances

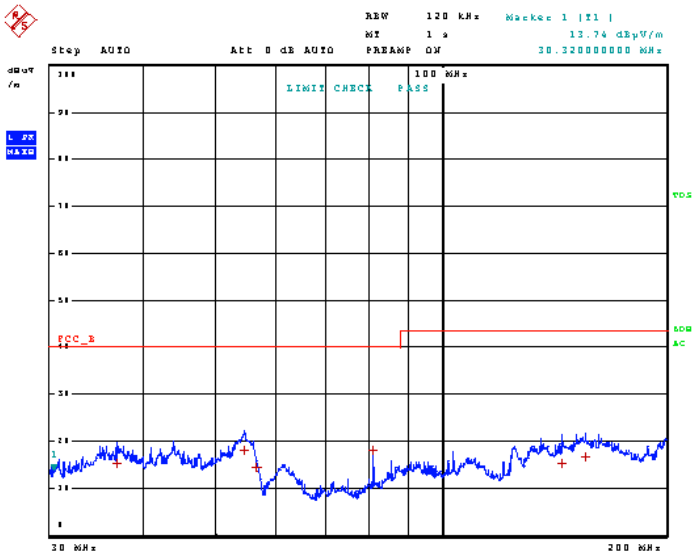
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:15

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	36.880000000 MHz	15.32	Quasi Peak	-24.68
1	54.520000000 MHz	18.18	Quasi Peak	-21.82
1	56.480000000 MHz	14.42	Quasi Peak	-25.58
1	81.000000000 MHz	18.13	Quasi Peak	-21.87
1	144.880000000 MHz	15.32	Quasi Peak	-28.18
1	155.920000000 MHz	16.73	Quasi Peak	-26.77

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RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:17

Test Spec CISPR 22 Radiated Disturbances

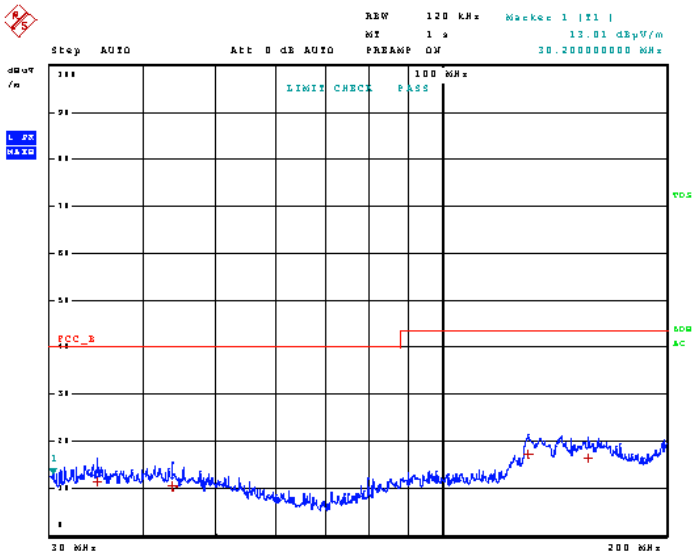
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:17

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	34.720000000 MHz	11.53	Quasi Peak	-28.47
1	43.720000000 MHz	10.44	Quasi Peak	-29.56
1	130.520000000 MHz	17.25	Quasi Peak	-26.25
1	157.440000000 MHz	16.45	Quasi Peak	-27.05

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:16

Test Spec CISPR 22 Radiated Disturbances

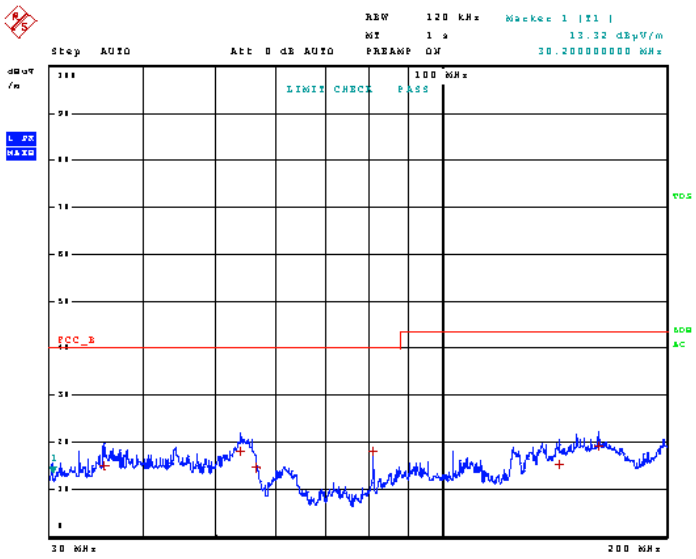
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:16

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	35.440000000 MHz	15.07	Quasi Peak	-24.93
1	53.920000000 MHz	18.08	Quasi Peak	-21.92
1	56.480000000 MHz	14.57	Quasi Peak	-25.43
1	81.000000000 MHz	18.15	Quasi Peak	-21.85
1	143.400000000 MHz	15.24	Quasi Peak	-28.26
1	161.960000000 MHz	19.28	Quasi Peak	-24.22

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:18

Test Spec CISPR 22 Radiated Disturbances

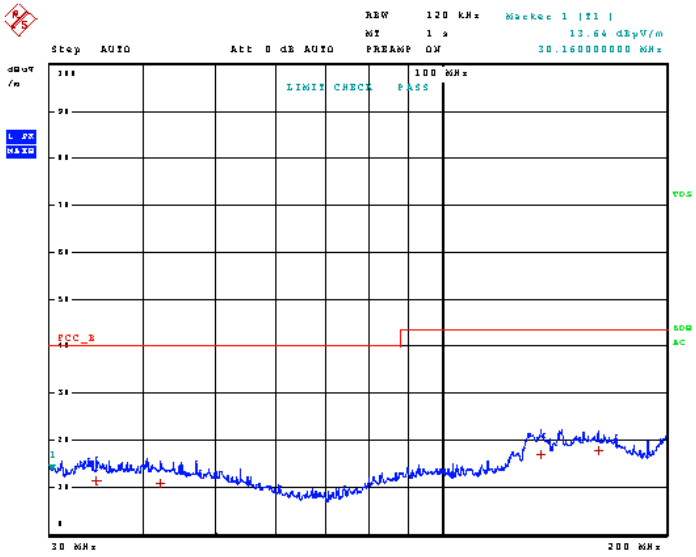
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:18

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	34.600000000 MHz	11.47	Quasi Peak	-28.53
1	42.160000000 MHz	10.80	Quasi Peak	-29.20
1	135.880000000 MHz	16.85	Quasi Peak	-26.65
1	162.040000000 MHz	17.76	Quasi Peak	-25.74

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:21

Test Spec CISPR 22 Radiated Disturbances

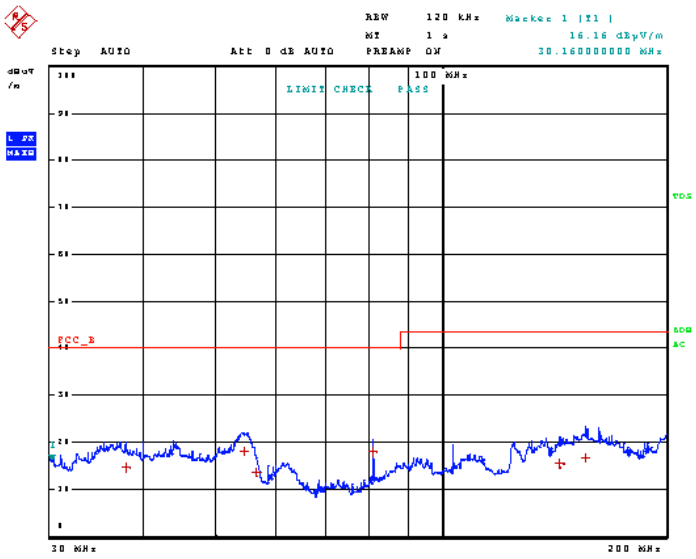
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:21

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	37.880000000 MHz	14.65	Quasi Peak	-25.35
1	54.480000000 MHz	18.23	Quasi Peak	-21.77
1	56.640000000 MHz	13.59	Quasi Peak	-26.41
1	81.000000000 MHz	18.05	Quasi Peak	-21.95
1	143.960000000 MHz	15.38	Quasi Peak	-28.12
1	155.800000000 MHz	16.75	Quasi Peak	-26.75

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:25

Test Spec CISPR 22 Radiated Disturbances

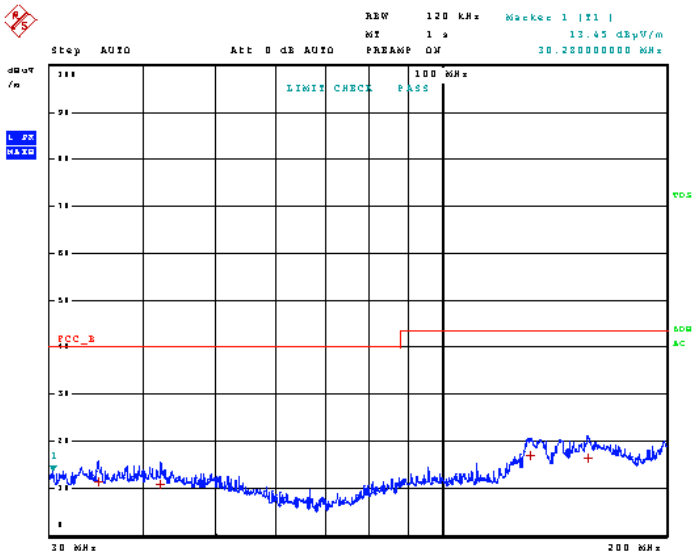
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:25

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	34.760000000 MHz	11.50	Quasi Peak	-28.50
1	42.080000000 MHz	10.89	Quasi Peak	-29.11
1	131.320000000 MHz	16.96	Quasi Peak	-26.54
1	156.720000000 MHz	16.51	Quasi Peak	-26.99

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RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:24

Test Spec CISPR 22 Radiated Disturbances

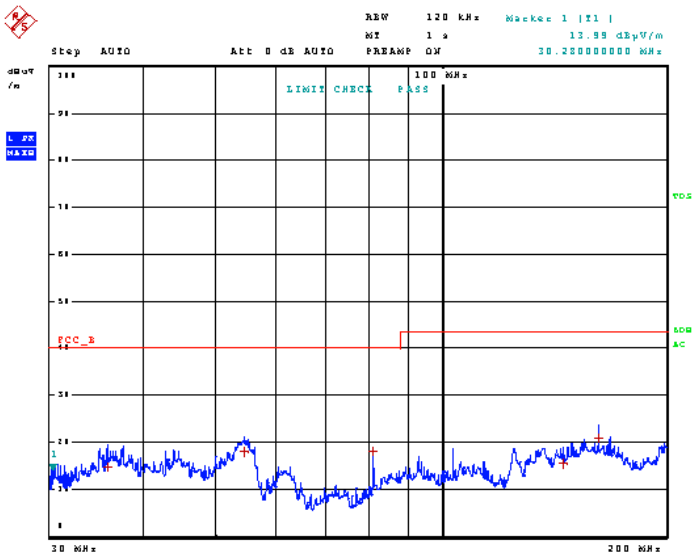
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:24

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	35.760000000 MHz	14.81	Quasi Peak	-25.19
1	54.520000000 MHz	18.00	Quasi Peak	-22.00
1	81.000000000 MHz	18.11	Quasi Peak	-21.89
1	145.160000000 MHz	15.54	Quasi Peak	-27.96
1	162.000000000 MHz	20.91	Quasi Peak	-22.59

RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:28

Test Spec CISPR 22 Radiated Disturbances

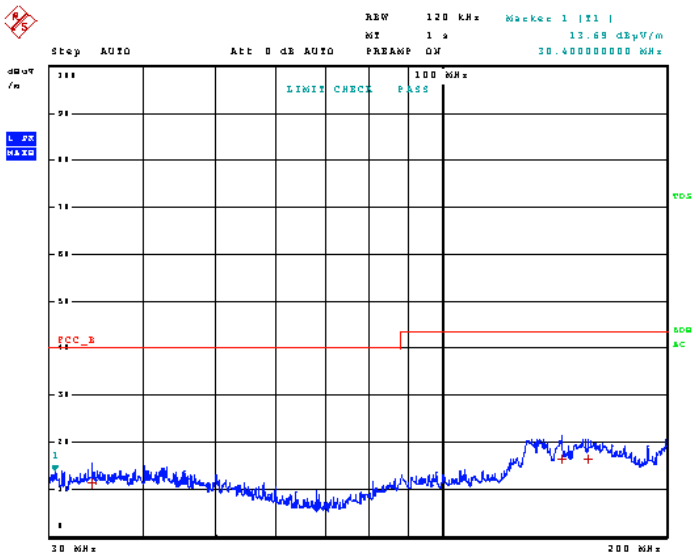
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:28

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	34.040000000 MHz	11.21	Quasi Peak	-28.79
1	144.960000000 MHz	16.49	Quasi Peak	-27.01
1	156.800000000 MHz	16.53	Quasi Peak	-26.97

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:27

Test Spec CISPR 22 Radiated Disturbances

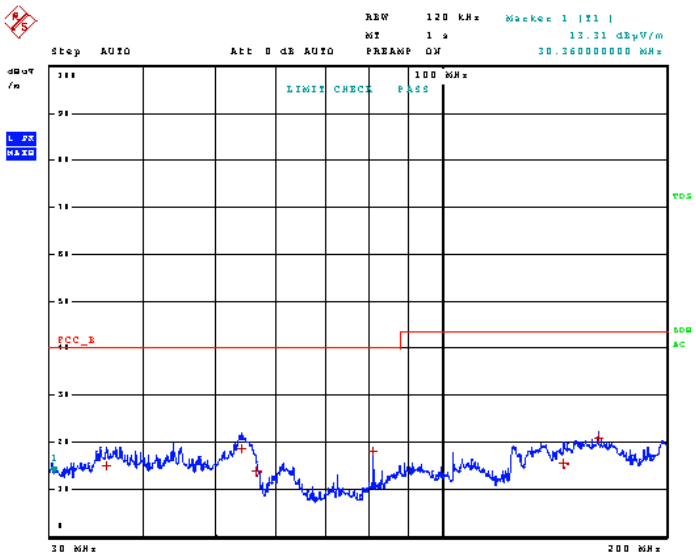
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:27

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	35.600000000 MHz	14.95	Quasi Peak	-25.05
1	54.000000000 MHz	18.64	Quasi Peak	-21.36
1	56.560000000 MHz	13.83	Quasi Peak	-26.17
1	81.000000000 MHz	18.12	Quasi Peak	-21.88
1	145.600000000 MHz	15.40	Quasi Peak	-28.10
1	162.000000000 MHz	20.92	Quasi Peak	-22.58

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 11:29

Test Spec CISPR 22 Radiated Disturbances

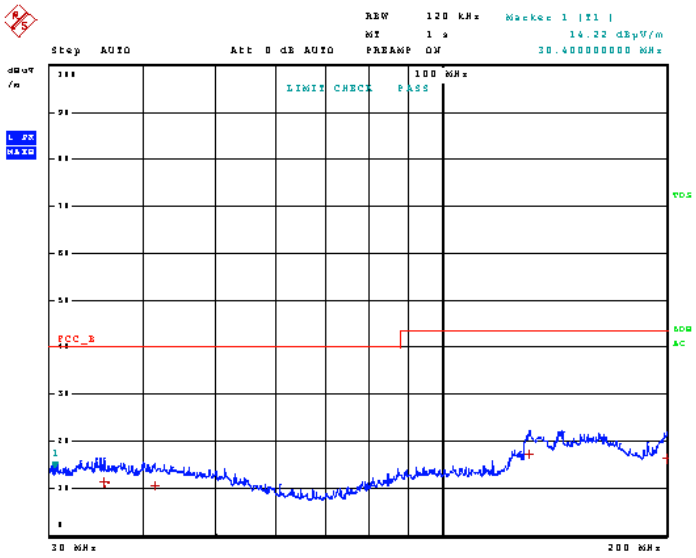
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 11:29

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	35.440000000 MHz	11.28	Quasi Peak	-28.72
1	41.320000000 MHz	10.70	Quasi Peak	-29.30
1	131.040000000 MHz	17.39	Quasi Peak	-26.11
1	199.840000000 MHz	16.36	Quasi Peak	-27.14

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 11:31

Test Spec CISPR 22 Radiated Disturbances

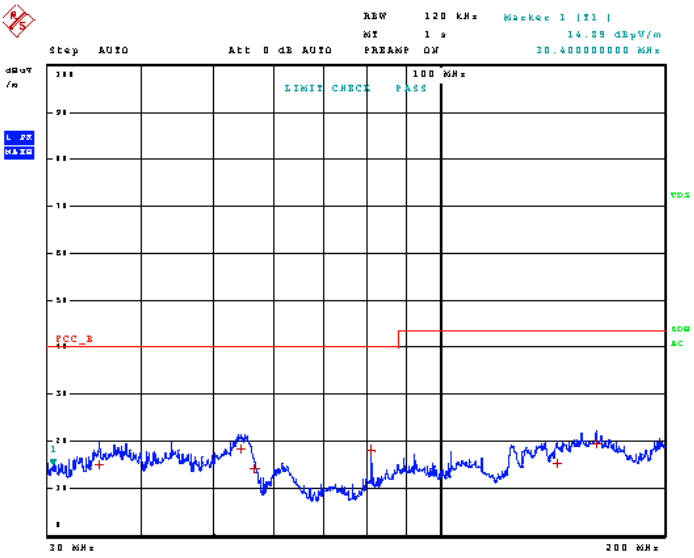
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Table, Vertical Polarity

14.Oct 19 11:31

Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	35.080000000 MHz	14.95	Quasi Peak	-25.05
1	54.240000000 MHz	18.29	Quasi Peak	-21.71
1	56.520000000 MHz	14.19	Quasi Peak	-25.81
1	81.000000000 MHz	18.00	Quasi Peak	-22.00
1	143.520000000 MHz	15.23	Quasi Peak	-28.27
1	162.040000000 MHz	19.42	Quasi Peak	-24.08

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Scanned 200 MHz to 1 GHz

Test Data: 25 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:21

Test Spec CISPR 22 Radiated Disturbances

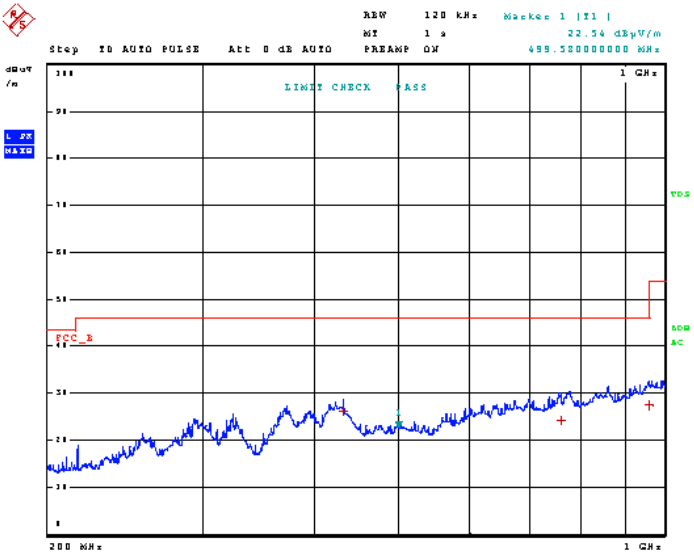
Polarity

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 µs	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:21

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	431.990000000 MHz	26.10	Quasi Peak	-19.90
1	761.810000000 MHz	24.21	Quasi Peak	-21.79
1	959.660000000 MHz	27.45	Quasi Peak	-18.55

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:23

Test Spec CISPR 22 Radiated Disturbances

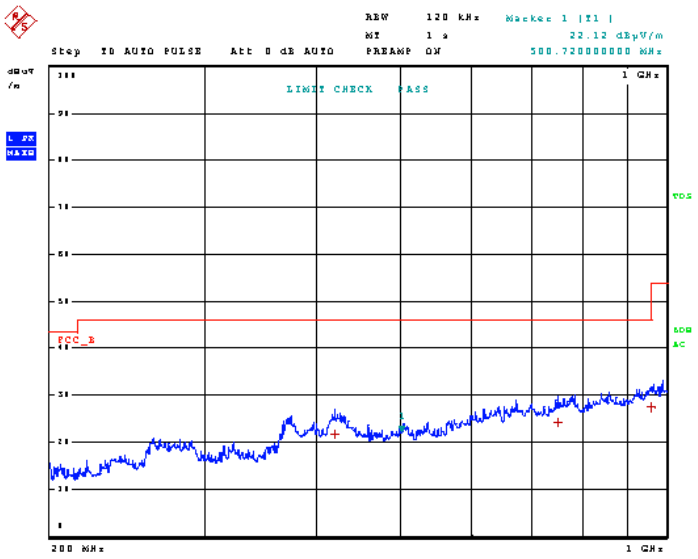
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:23

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	420.560000000 MHz	21.72	Quasi Peak	-24.28
1	753.500000000 MHz	24.26	Quasi Peak	-21.74
1	958.640000000 MHz	27.40	Quasi Peak	-18.60

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:24

Test Spec CISPR 22 Radiated Disturbances

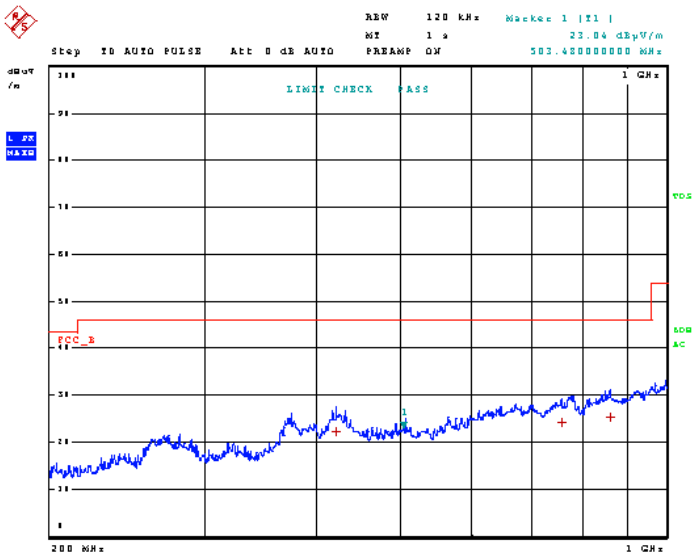
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:24

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	421.910000000 MHz	22.11	Quasi Peak	-23.89
1	760.520000000 MHz	24.24	Quasi Peak	-21.76
1	864.170000000 MHz	25.33	Quasi Peak	-20.67

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:23

Test Spec CISPR 22 Radiated Disturbances

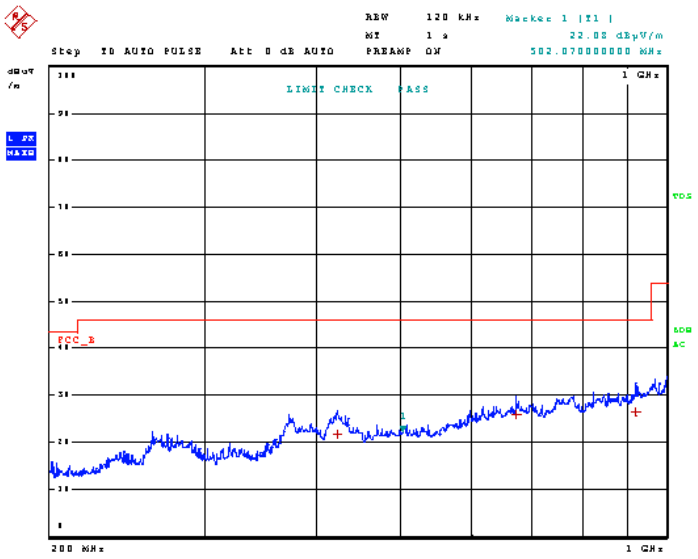
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:23

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	424.070000000 MHz	21.68	Quasi Peak	-24.32
1	674.990000000 MHz	25.95	Quasi Peak	-20.05
1	923.000000000 MHz	26.32	Quasi Peak	-19.68

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:26

Test Spec CISPR 22 Radiated Disturbances

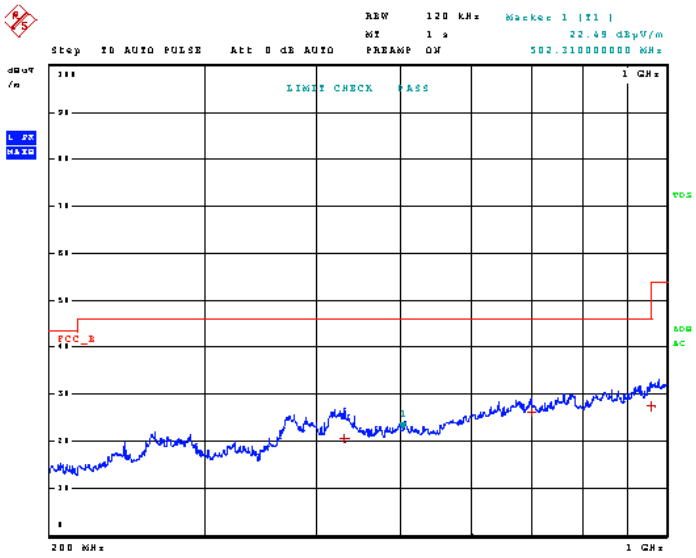
Polarity

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 µs	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:26

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	431.570000000 MHz	20.64	Quasi Peak	-25.36
1	701.990000000 MHz	26.26	Quasi Peak	-19.74
1	958.400000000 MHz	27.34	Quasi Peak	-18.66

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:25

Test Spec CISPR 22 Radiated Disturbances

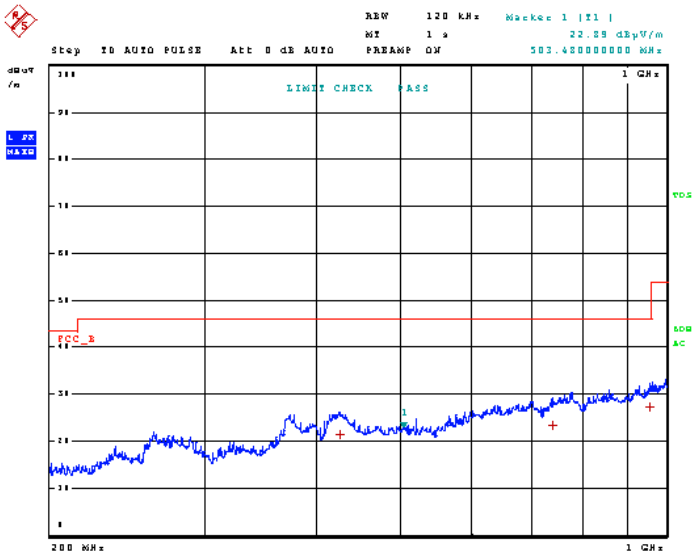
Polarity

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



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RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:25

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	426.230000000 MHz	21.53	Quasi Peak	-24.47
1	743.270000000 MHz	23.36	Quasi Peak	-22.64
1	957.680000000 MHz	27.28	Quasi Peak	-18.72

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:28

Test Spec CISPR 22 Radiated Disturbances

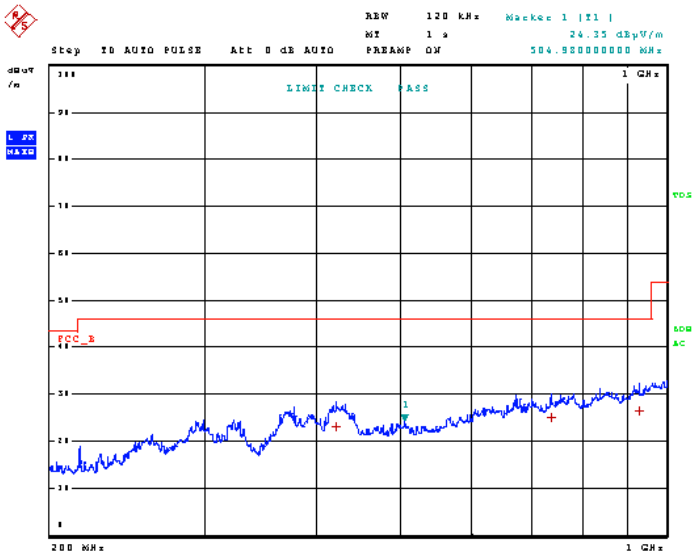
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:28

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	421.790000000 MHz	23.19	Quasi Peak	-22.81
1	739.850000000 MHz	25.20	Quasi Peak	-20.80
1	929.150000000 MHz	26.30	Quasi Peak	-19.70

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RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:27

Test Spec CISPR 22 Radiated Disturbances

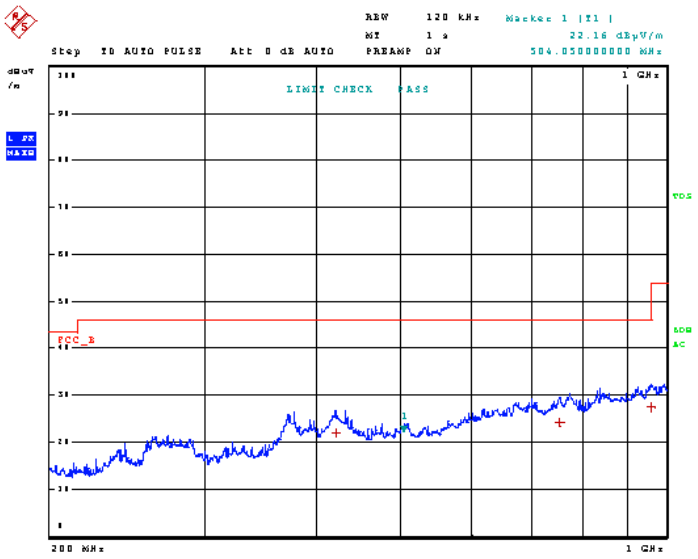
Polarity

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: 174 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:27

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	421.070000000 MHz	22.04	Quasi Peak	-23.96
1	757.010000000 MHz	24.29	Quasi Peak	-21.71
1	958.670000000 MHz	27.40	Quasi Peak	-18.60

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RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:29

Test Spec CISPR 22 Radiated Disturbances

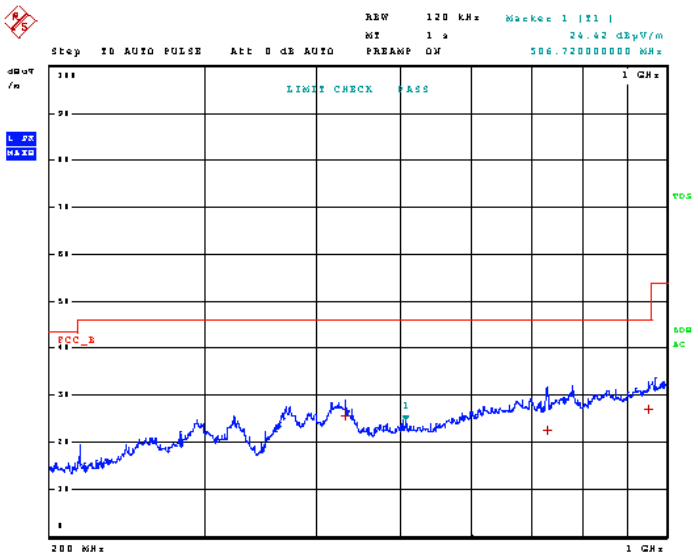
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:30

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	417.230000000 MHz	21.08	Quasi Peak	-24.92
1	760.730000000 MHz	24.23	Quasi Peak	-21.77
1	957.890000000 MHz	27.28	Quasi Peak	-18.72

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:30

Test Spec CISPR 22 Radiated Disturbances

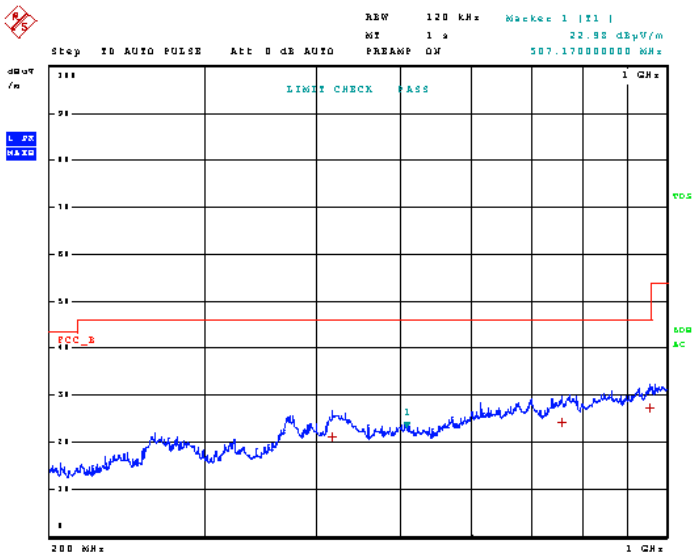
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:30

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	417.230000000 MHz	21.08	Quasi Peak	-24.92
1	760.730000000 MHz	24.23	Quasi Peak	-21.77
1	957.890000000 MHz	27.28	Quasi Peak	-18.72

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RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:32

Test Spec CISPR 22 Radiated Disturbances

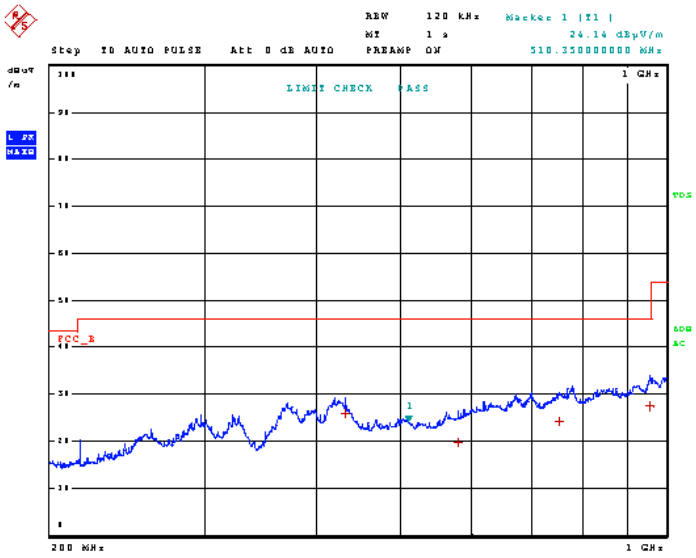
Polarity

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



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RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:32

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	432.020000000 MHz	25.89	Quasi Peak	-20.11
1	580.070000000 MHz	19.79	Quasi Peak	-26.21
1	754.460000000 MHz	24.29	Quasi Peak	-21.71
1	957.950000000 MHz	27.34	Quasi Peak	-18.66

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:31

Test Spec CISPR 22 Radiated Disturbances

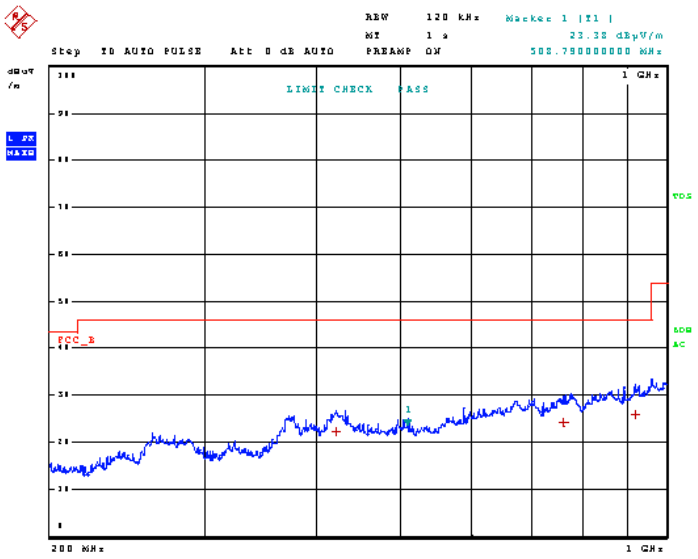
Polarity

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 µs	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:31

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	422.570000000 MHz	22.08	Quasi Peak	-23.92
1	764.120000000 MHz	24.20	Quasi Peak	-21.80
1	919.760000000 MHz	26.02	Quasi Peak	-19.98

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:36

Test Spec CISPR 22 Radiated Disturbances

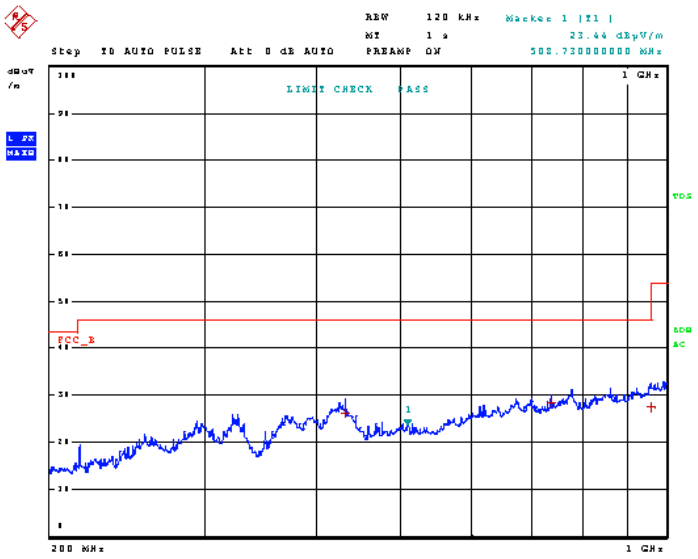
Polarity

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



RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:36

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	432.020000000 MHz	26.23	Quasi Peak	-19.77
1	739.880000000 MHz	28.37	Quasi Peak	-17.63
1	959.810000000 MHz	27.50	Quasi Peak	-18.50

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:42

Test Spec CISPR 22 Radiated Disturbances

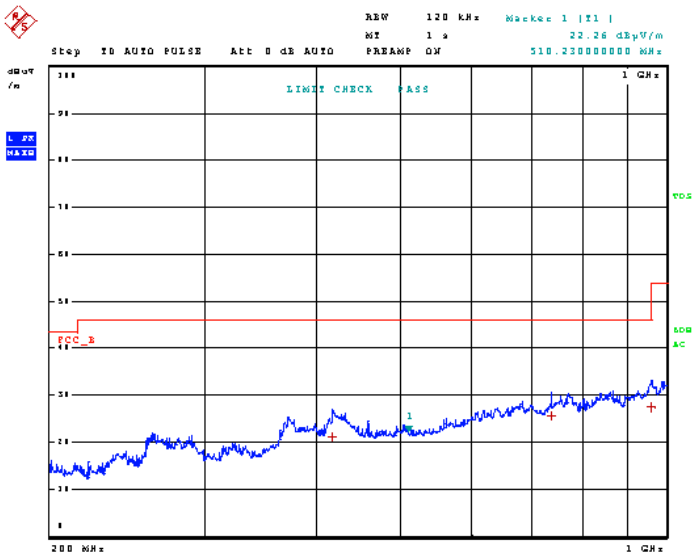
Polarity

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



Test Data: 806 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:42

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	418.130000000 MHz	21.12	Quasi Peak	-24.88
1	739.880000000 MHz	25.48	Quasi Peak	-20.52
1	959.210000000 MHz	27.42	Quasi Peak	-18.58

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Plot, Horizontal Polarity

ROHDE&SCHWARZ

14.Oct 19 09:59

Test Spec CISPR 22 Radiated Disturbances

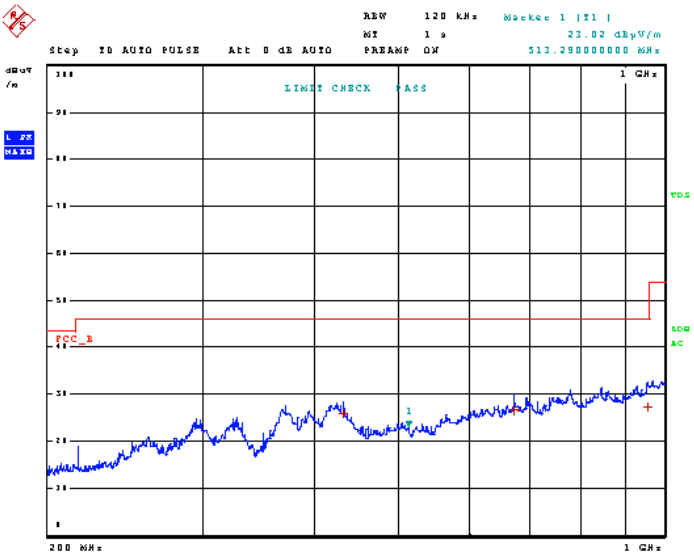
Polarity

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



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RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Table, Horizontal Polarity

14.Oct 19 09:59

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	431.990000000 MHz	25.97	Quasi Peak	-20.03
1	675.020000000 MHz	26.55	Quasi Peak	-19.45
1	957.500000000 MHz	27.24	Quasi Peak	-18.76

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Plot, Vertical Polarity

ROHDE&SCHWARZ

14.Oct 19 09:48

Test Spec CISPR 22 Radiated Disturbances

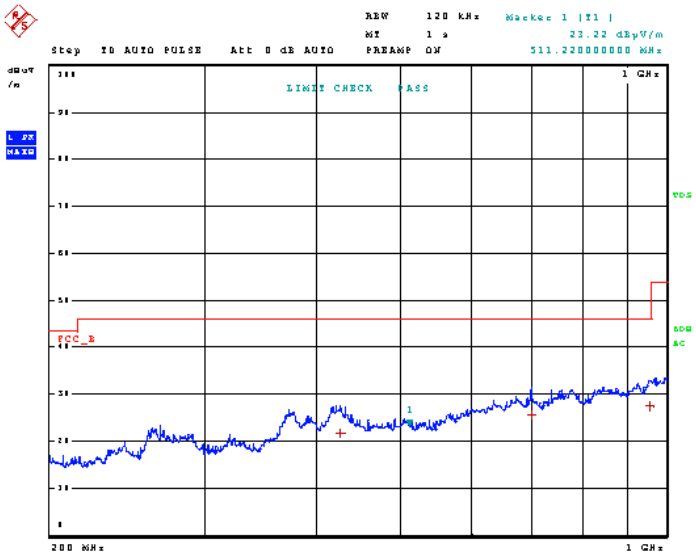
Polarity

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: 956 MHz Field Strength Table, Vertical Polarity

14.Oct 19 09:48

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	426.680000000 MHz	21.80	Quasi Peak	-24.20
1	702.050000000 MHz	25.49	Quasi Peak	-20.51
1	958.190000000 MHz	27.32	Quasi Peak	-18.68

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Scanned 1 GHz to 12.5 GHz

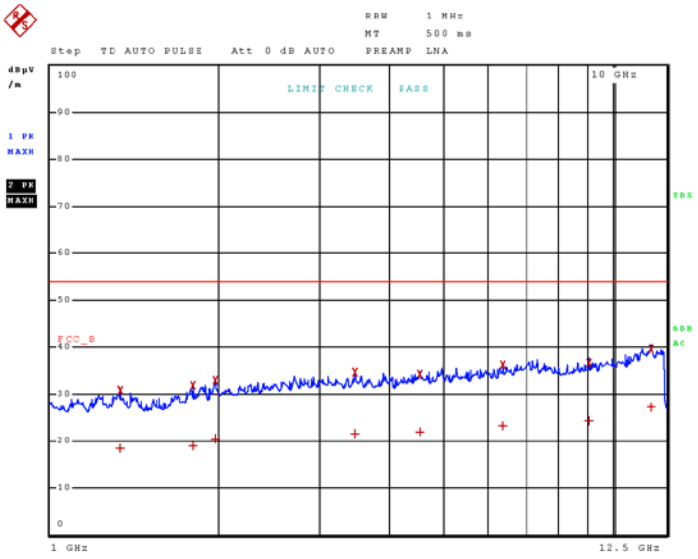
Test Data: 108 MHz Field Strength Plot, Horizontal Polarity

10.Oct 19 16:48

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Horizontal Polarity

10.Oct 19 16:48

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.332250000 GHz	18.40	CISPR Averag	-35.60
2	1.332250000 GHz	30.77	Max Peak	
1	1.789000000 GHz	18.97	CISPR Averag	-35.03
2	1.789000000 GHz	31.80	Max Peak	
1	1.963250000 GHz	20.38	CISPR Averag	-33.62
2	1.963250000 GHz	32.88	Max Peak	
1	3.483750000 GHz	21.58	CISPR Averag	-32.42
2	3.483750000 GHz	34.53	Max Peak	
1	4.543250000 GHz	21.94	CISPR Averag	-32.06
2	4.543250000 GHz	34.17	Max Peak	
1	6.385250000 GHz	23.18	CISPR Averag	-30.82
2	6.385250000 GHz	36.24	Max Peak	
1	9.079000000 GHz	24.24	CISPR Averag	-29.76
2	9.079000000 GHz	36.61	Max Peak	
1	11.707000000 GHz	27.14	CISPR Averag	-26.86
2	11.707000000 GHz	39.70	Max Peak	

Page 2 of 2

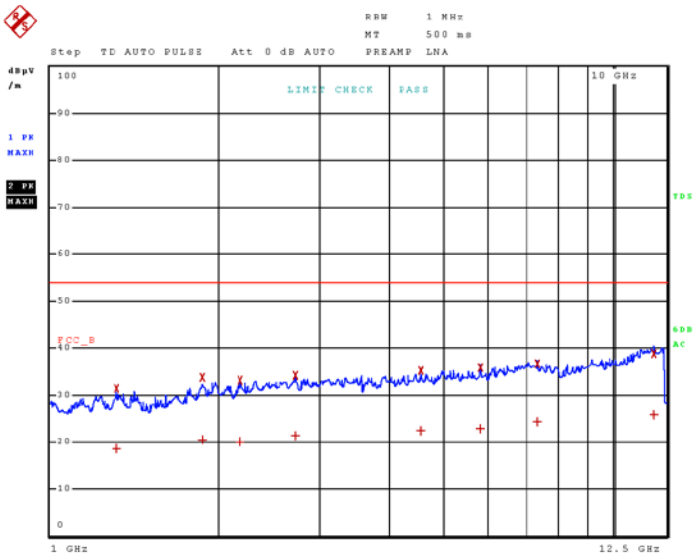
Test Data: 108 MHz Field Strength Plot, Vertical Polarity

10.Oct 19 16:45

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Vertical Polarity

10.Oct 19 16:45

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.311750000 GHz	18.66	CISPR Averag	-35.34
2	1.311750000 GHz	31.32	Max Peak	
1	1.863250000 GHz	20.42	CISPR Averag	-33.58
2	1.863250000 GHz	33.72	Max Peak	
1	2.174250000 GHz	20.00	CISPR Averag	-34.00
2	2.174250000 GHz	33.09	Max Peak	
1	2.724250000 GHz	21.29	CISPR Averag	-32.71
2	2.724250000 GHz	34.18	Max Peak	
1	4.563750000 GHz	22.29	CISPR Averag	-31.71
2	4.563750000 GHz	35.28	Max Peak	
1	5.822750000 GHz	22.89	CISPR Averag	-31.11
2	5.822750000 GHz	35.75	Max Peak	
1	7.366000000 GHz	24.34	CISPR Averag	-29.66
2	7.366000000 GHz	36.56	Max Peak	
1	11.866250000 GHz	25.83	CISPR Averag	-28.17
2	11.866250000 GHz	38.85	Max Peak	

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

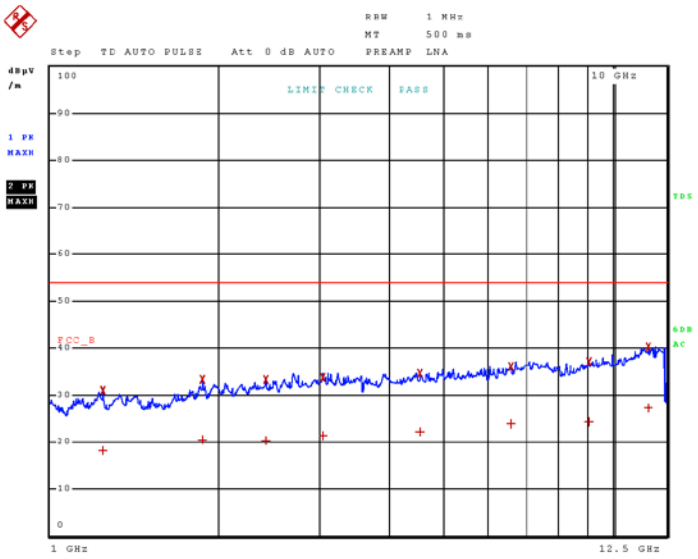
Test Data: 174 MHz Field Strength Plot, Horizontal Polarity

10.Oct 19 16:38

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Horizontal Polarity

10.Oct 19 16:38

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.237000000 GHz	18.20	CISPR Averag	-35.80
2	1.237000000 GHz	30.92	Max Peak	
1	1.863500000 GHz	20.48	CISPR Averag	-33.52
2	1.863500000 GHz	33.28	Max Peak	
1	2.416250000 GHz	20.36	CISPR Averag	-33.64
2	2.416250000 GHz	33.34	Max Peak	
1	3.051000000 GHz	21.38	CISPR Averag	-32.62
2	3.051000000 GHz	33.66	Max Peak	
1	4.543750000 GHz	22.13	CISPR Averag	-31.87
2	4.543750000 GHz	34.62	Max Peak	
1	6.589500000 GHz	23.94	CISPR Averag	-30.06
2	6.589500000 GHz	36.01	Max Peak	
1	9.082500000 GHz	24.25	CISPR Averag	-29.75
2	9.082500000 GHz	36.98	Max Peak	
1	11.585750000 GHz	27.25	CISPR Averag	-26.75
2	11.585750000 GHz	40.33	Max Peak	

Page 2 of 2

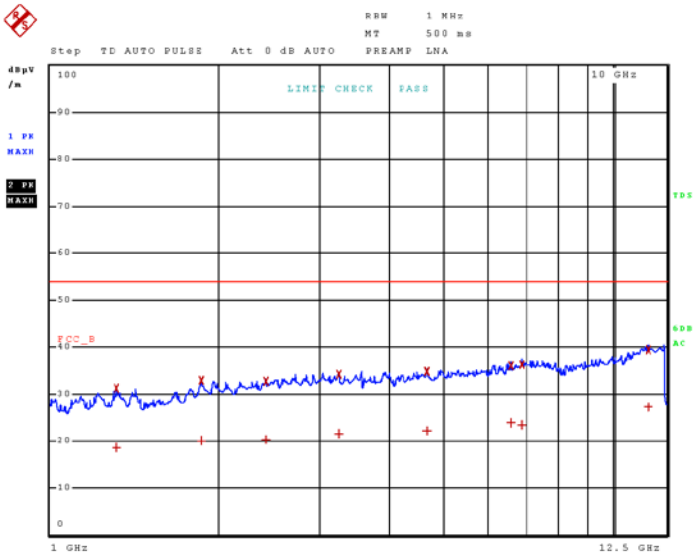
Test Data: 174 MHz Field Strength Plot, Vertical Polarity

10.Oct 19 16:41

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Vertical Polarity

10.Oct 19 16:41

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.311250000 GHz	18.58	CISPR Averag	-35.42
2	1.311250000 GHz	31.13	Max Peak	
1	1.854250000 GHz	20.14	CISPR Averag	-33.86
2	1.854250000 GHz	32.82	Max Peak	
1	2.412750000 GHz	20.20	CISPR Averag	-33.80
2	2.412750000 GHz	32.59	Max Peak	
1	3.260750000 GHz	21.51	CISPR Averag	-32.49
2	3.260750000 GHz	34.09	Max Peak	
1	4.677250000 GHz	22.13	CISPR Averag	-31.87
2	4.677250000 GHz	34.81	Max Peak	
1	6.585250000 GHz	23.79	CISPR Averag	-30.21
2	6.585250000 GHz	36.05	Max Peak	
1	6.908000000 GHz	23.52	CISPR Averag	-30.48
2	6.908000000 GHz	36.15	Max Peak	
1	11.552750000 GHz	27.24	CISPR Averag	-26.76
2	11.552750000 GHz	39.40	Max Peak	

Page 2 of 2

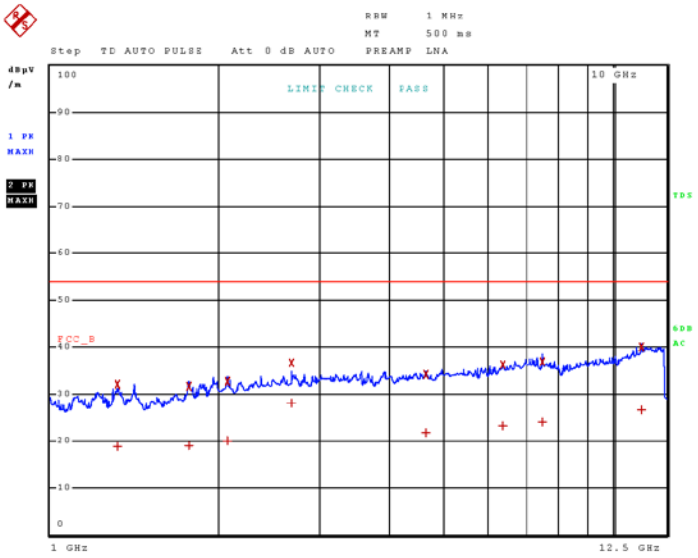
Test Data: 406 MHz Field Strength Plot, Horizontal Polarity

10.Oct 19 16:34

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_05

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 µs	Auto	35 dB	INPUT1



Page 1 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Horizontal Polarity

10.Oct 19 16:34

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.314000000 GHz	18.79	CISPR Averag	-35.21
2	1.314000000 GHz	32.08	Max Peak	
1	1.759000000 GHz	19.05	CISPR Averag	-34.95
2	1.759000000 GHz	31.54	Max Peak	
1	2.063500000 GHz	20.15	CISPR Averag	-33.85
2	2.063500000 GHz	32.60	Max Peak	
1	2.689750000 GHz	28.15	CISPR Averag	-25.85
2	2.689750000 GHz	36.73	Max Peak	
1	4.656000000 GHz	21.85	CISPR Averag	-32.15
2	4.656000000 GHz	34.04	Max Peak	
1	6.376750000 GHz	23.30	CISPR Averag	-30.70
2	6.376750000 GHz	36.17	Max Peak	
1	7.499000000 GHz	24.01	CISPR Averag	-29.99
2	7.499000000 GHz	36.90	Max Peak	
1	11.253500000 GHz	26.64	CISPR Averag	-27.36
2	11.253500000 GHz	39.95	Max Peak	

Page 2 of 2

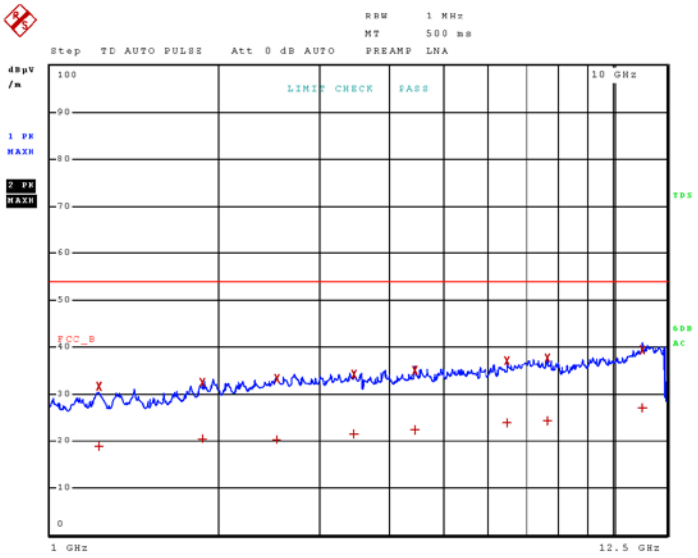
Test Data: 406 MHz Field Strength Plot, Vertical Polarity

10.Oct 19 16:31

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Vertical Polarity

10.Oct 19 16:31

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.217000000 GHz	18.71	CISPR Averag	-35.29
2	1.217000000 GHz	31.54	Max Peak	
1	1.864500000 GHz	20.52	CISPR Averag	-33.48
2	1.864500000 GHz	32.50	Max Peak	
1	2.525750000 GHz	20.17	CISPR Averag	-33.83
2	2.525750000 GHz	33.31	Max Peak	
1	3.469000000 GHz	21.49	CISPR Averag	-32.51
2	3.469000000 GHz	34.12	Max Peak	
1	4.449000000 GHz	22.33	CISPR Averag	-31.67
2	4.449000000 GHz	34.88	Max Peak	
1	6.488500000 GHz	23.90	CISPR Averag	-30.10
2	6.488500000 GHz	37.18	Max Peak	
1	7.644500000 GHz	24.19	CISPR Averag	-29.81
2	7.644500000 GHz	37.71	Max Peak	
1	11.296750000 GHz	27.08	CISPR Averag	-26.92
2	11.296750000 GHz	39.42	Max Peak	

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RADIATED SPURIOUS EMISSIONS

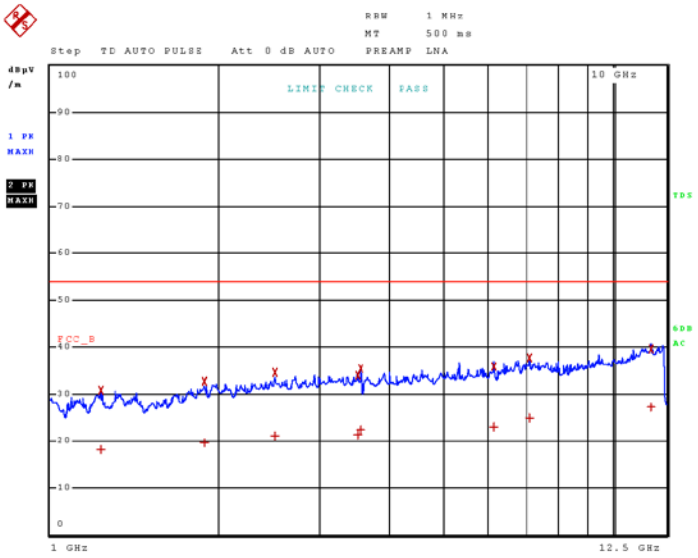
Test Data: 512 MHz Field Strength Plot, Horizontal Polarity

10.Oct 19 16:26

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Horizontal Polarity

10.Oct 19 16:26

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.228750000 GHz	18.26	CISPR Averag	-35.74
2	1.228750000 GHz	30.82	Max Peak	
1	1.879500000 GHz	19.54	CISPR Averag	-34.46
2	1.879500000 GHz	32.59	Max Peak	
1	2.509750000 GHz	21.21	CISPR Averag	-32.79
2	2.509750000 GHz	34.58	Max Peak	
1	3.526250000 GHz	21.35	CISPR Averag	-32.65
2	3.526250000 GHz	33.99	Max Peak	
1	3.569000000 GHz	22.37	CISPR Averag	-31.63
2	3.569000000 GHz	35.41	Max Peak	
1	6.145000000 GHz	23.04	CISPR Averag	-30.96
2	6.145000000 GHz	35.83	Max Peak	
1	7.128750000 GHz	24.87	CISPR Averag	-29.13
2	7.128750000 GHz	37.69	Max Peak	
1	11.710750000 GHz	27.29	CISPR Averag	-26.71
2	11.710750000 GHz	39.50	Max Peak	

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RADIATED SPURIOUS EMISSIONS

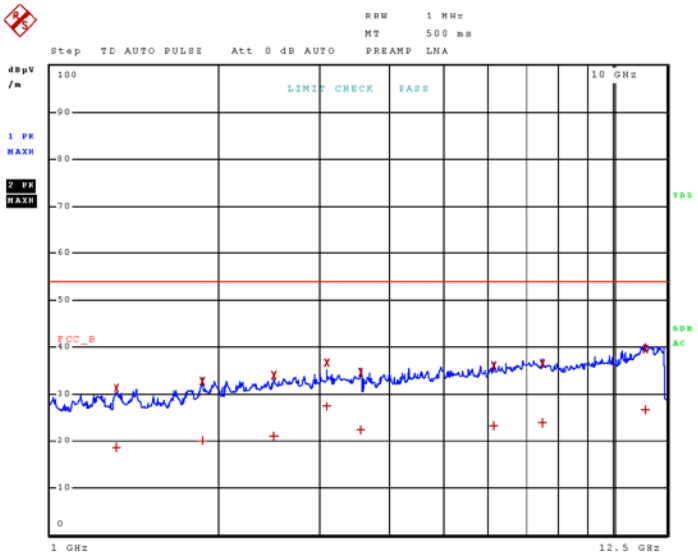
Test Data: 512 MHz Field Strength Plot, Vertical Polarity

10.Oct 19 16:27

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_05

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 µs	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Vertical Polarity

10.Oct 19 16:27

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.311250000 GHz	18.64	CISPR Averag	-35.36
2	1.311250000 GHz	31.14	Max Peak	
1	1.861500000 GHz	20.12	CISPR Averag	-33.88
2	1.861500000 GHz	32.57	Max Peak	
1	2.498250000 GHz	21.09	CISPR Averag	-32.91
2	2.498250000 GHz	33.88	Max Peak	
1	3.109750000 GHz	27.39	CISPR Averag	-26.61
2	3.109750000 GHz	36.74	Max Peak	
1	3.565500000 GHz	22.33	CISPR Averag	-31.67
2	3.565500000 GHz	34.47	Max Peak	
1	6.148000000 GHz	23.12	CISPR Averag	-30.88
2	6.148000000 GHz	35.97	Max Peak	
1	7.516250000 GHz	23.94	CISPR Averag	-30.06
2	7.516250000 GHz	36.54	Max Peak	
1	11.423750000 GHz	26.53	CISPR Averag	-27.47
2	11.423750000 GHz	39.61	Max Peak	

Page 2 of 2

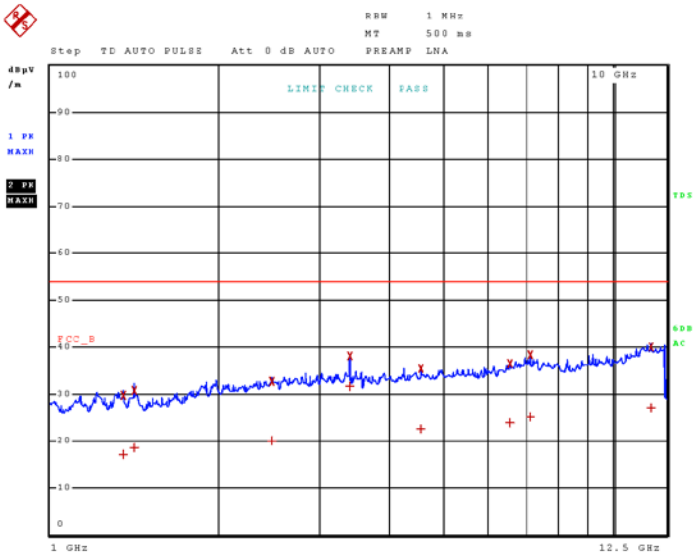
Test Data: 806 MHz Field Strength Plot, Horizontal Polarity

10.Oct 19 16:20

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_05

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 µs	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Table, Horizontal Polarity

10.Oct 19 16:20

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.350250000 GHz	17.17	CISPR Averag	-36.83
2	1.350250000 GHz	29.65	Max Peak	
1	1.410250000 GHz	18.58	CISPR Averag	-35.42
2	1.410250000 GHz	30.88	Max Peak	
1	2.471750000 GHz	20.14	CISPR Averag	-33.86
2	2.471750000 GHz	32.63	Max Peak	
1	3.402000000 GHz	31.66	CISPR Averag	-22.34
2	3.402000000 GHz	38.09	Max Peak	
1	4.555250000 GHz	22.58	CISPR Averag	-31.42
2	4.555250000 GHz	35.45	Max Peak	
1	6.576000000 GHz	23.93	CISPR Averag	-30.07
2	6.576000000 GHz	36.44	Max Peak	
1	7.141500000 GHz	25.11	CISPR Averag	-28.89
2	7.141500000 GHz	38.30	Max Peak	
1	11.732000000 GHz	27.09	CISPR Averag	-26.91
2	11.732000000 GHz	39.93	Max Peak	

Page 2 of 2

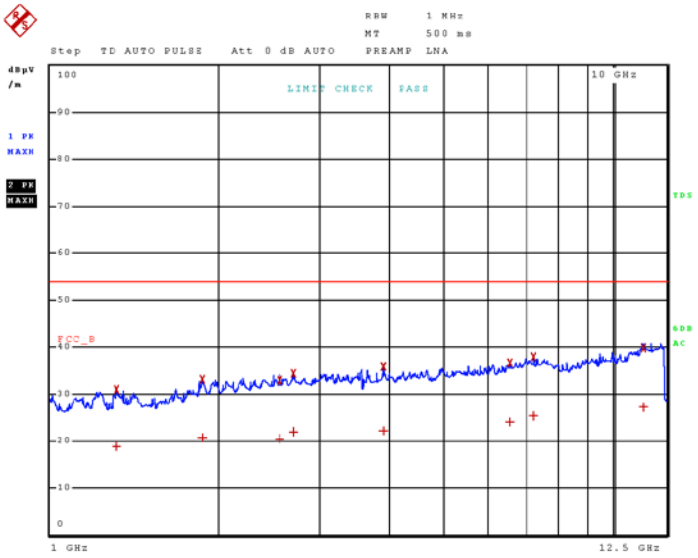
Test Data: 806 MHz Field Strength Plot, Vertical Polarity

10.Oct 19 16:17

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 806 MHz Field Strength Table, Vertical Polarity

10.Oct 19 16:17

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.311000000 GHz	18.76	CISPR Averag	-35.24
2	1.311000000 GHz	31.06	Max Peak	
1	1.864250000 GHz	20.79	CISPR Averag	-33.21
2	1.864250000 GHz	33.15	Max Peak	
1	2.553000000 GHz	20.44	CISPR Averag	-33.56
2	2.553000000 GHz	32.98	Max Peak	
1	2.709500000 GHz	21.85	CISPR Averag	-32.15
2	2.709500000 GHz	34.36	Max Peak	
1	3.906000000 GHz	22.18	CISPR Averag	-31.82
2	3.906000000 GHz	35.85	Max Peak	
1	6.577000000 GHz	24.15	CISPR Averag	-29.85
2	6.577000000 GHz	36.60	Max Peak	
1	7.228000000 GHz	25.28	CISPR Averag	-28.72
2	7.228000000 GHz	37.94	Max Peak	
1	11.320250000 GHz	27.17	CISPR Averag	-26.83
2	11.320250000 GHz	39.85	Max Peak	

Page 2 of 2

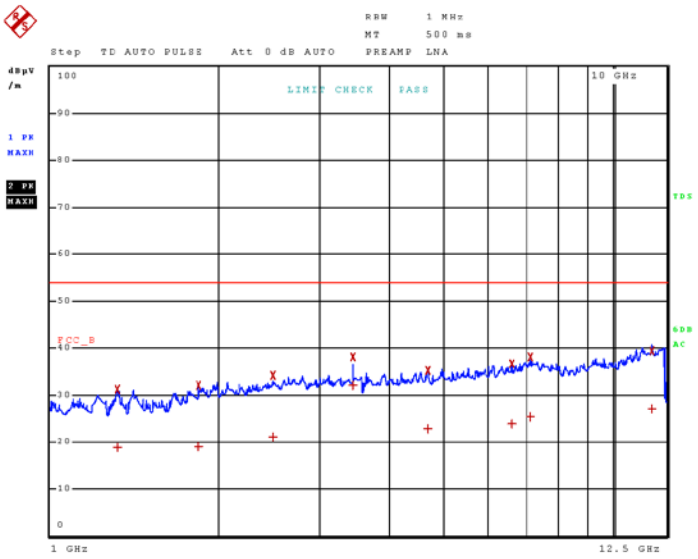
Test Data: 956 MHz Field Strength Plot, Horizontal Polarity

10.Oct 19 16:14

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_05

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 µs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 956 MHz Field Strength Table, Horizontal Polarity

10.Oct 19 16:14

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.316500000 GHz	18.80	CISPR Averag	-35.20
2	1.316500000 GHz	31.11	Max Peak	
1	1.838500000 GHz	19.03	CISPR Averag	-34.97
2	1.838500000 GHz	31.96	Max Peak	
1	2.490000000 GHz	21.17	CISPR Averag	-32.83
2	2.490000000 GHz	34.07	Max Peak	
1	3.445000000 GHz	32.07	CISPR Averag	-21.93
2	3.445000000 GHz	38.05	Max Peak	
1	4.685500000 GHz	22.82	CISPR Averag	-31.18
2	4.685500000 GHz	35.19	Max Peak	
1	6.618750000 GHz	23.95	CISPR Averag	-30.05
2	6.618750000 GHz	36.74	Max Peak	
1	7.153000000 GHz	25.23	CISPR Averag	-28.77
2	7.153000000 GHz	38.08	Max Peak	
1	11.767750000 GHz	27.01	CISPR Averag	-26.99
2	11.767750000 GHz	39.48	Max Peak	

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RADIATED SPURIOUS EMISSIONS

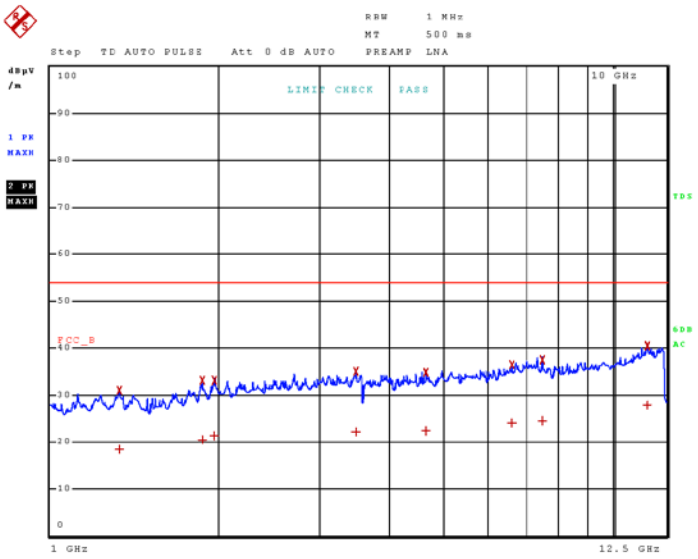
Test Data: 956 MHz Field Strength Plot, Vertical Polarity

10.Oct 19 16:15

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_05

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 µs	Auto	35 dB	INPUT1



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Test Data: 956 MHz Field Strength Table, Vertical Polarity

10.Oct 19 16:15

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.327750000 GHz	18.37	CISPR Averag	-35.63
2	1.327750000 GHz	31.05	Max Peak	
1	1.866250000 GHz	20.54	CISPR Averag	-33.46
2	1.866250000 GHz	33.06	Max Peak	
1	1.960750000 GHz	21.26	CISPR Averag	-32.74
2	1.960750000 GHz	33.03	Max Peak	
1	3.495500000 GHz	22.12	CISPR Averag	-31.88
2	3.495500000 GHz	34.96	Max Peak	
1	4.652750000 GHz	22.35	CISPR Averag	-31.65
2	4.652750000 GHz	34.70	Max Peak	
1	6.608250000 GHz	24.09	CISPR Averag	-29.91
2	6.608250000 GHz	36.47	Max Peak	
1	7.500250000 GHz	24.42	CISPR Averag	-29.58
2	7.500250000 GHz	37.50	Max Peak	
1	11.537250000 GHz	27.83	CISPR Averag	-26.17
2	11.537250000 GHz	40.50	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

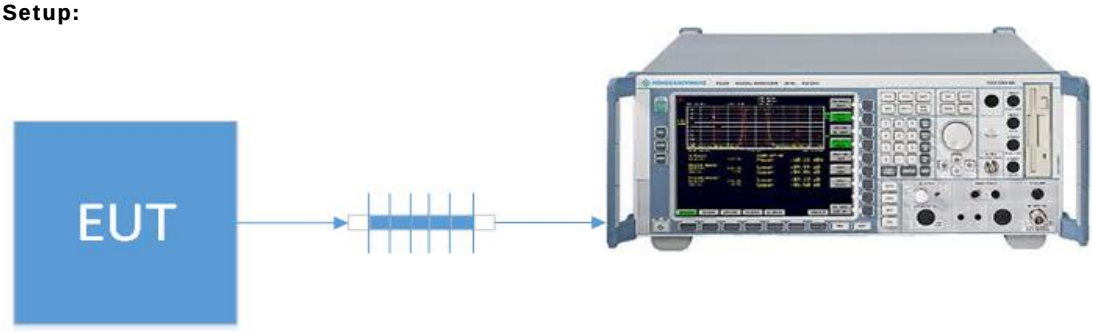
FCC Part 15.35(a) Measurement detector functions and bandwidths

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.**

POWER LINE CONDUCTED INTERFERENCE

Rules Part No.: Part 15.107, RSS-GEN sec 8.8

Requirements:

Frequency (MHz)	Quasi Peak Limits (dBµV)	Average Limits (dBµV)
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

POWER LINE CONDUCTED INTERFERENCE

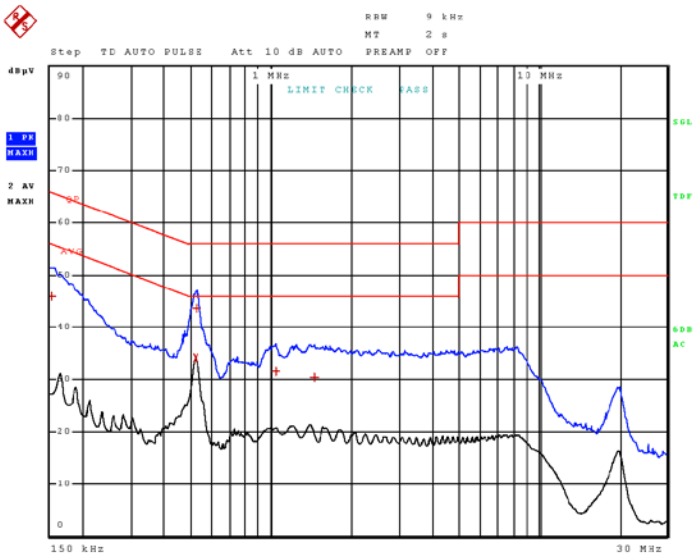
Test Data: Scanning, Line 1 Peak Plot

09.Oct 19 15:45

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: 5

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	152.250000000 kHz	45.85	Quasi Peak	-20.03
2	519.000000000 kHz	34.10	Average	-11.90
1	523.500000000 kHz	43.50	Quasi Peak	-12.50
1	1.041000000 MHz	31.44	Quasi Peak	-24.56
1	1.446000000 MHz	30.41	Quasi Peak	-25.59

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

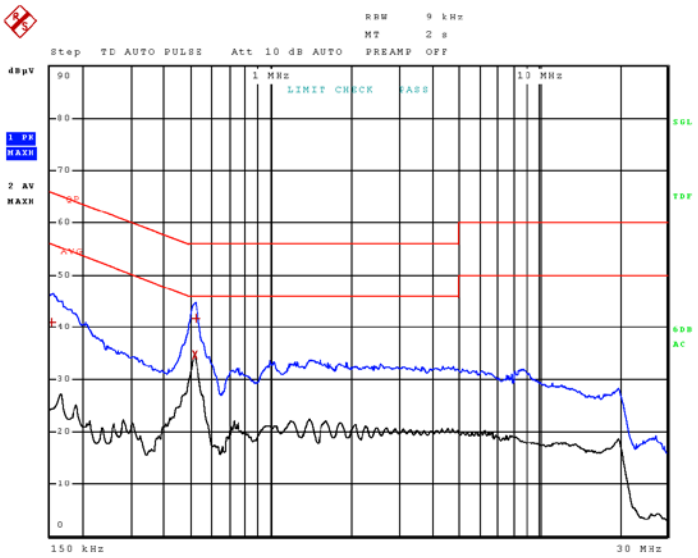
Test Data: Scanning, Line 2 Peak Plot

09.Oct 19 16:03

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: 3

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	152.250000000 kHz	40.96	Quasi Peak	-24.92
2	516.750000000 kHz	34.70	Average	-11.30
1	519.000000000 kHz	41.70	Quasi Peak	-14.30

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

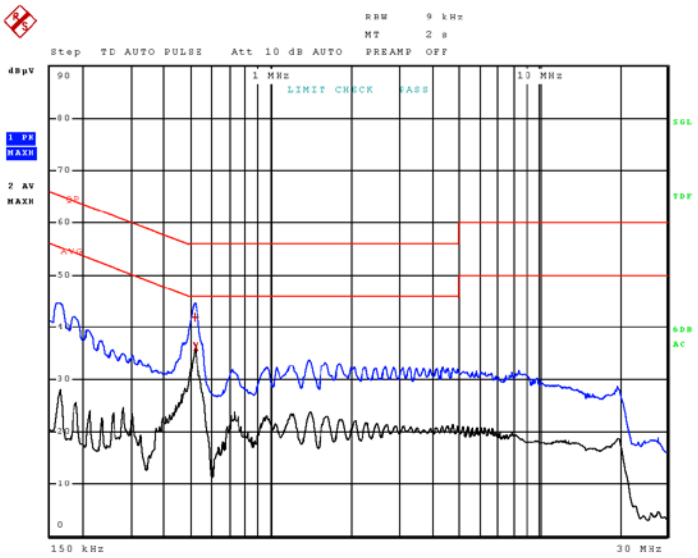
Test Data: Tuned to 25 MHz, Line 1 Peak Plot

09.Oct 19 16:06

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: 2

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	514.500000000 kHz	41.85	Quasi Peak	-14.15
2	519.000000000 kHz	36.18	Average	-9.82

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

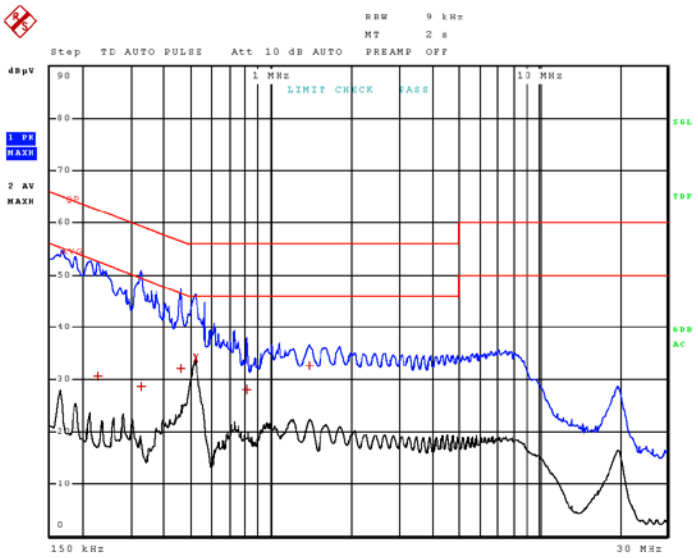
Test Data: Tuned to 25 MHz, Line 2 Peak Plot

09.Oct 19 16:12

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: 6

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	224.250000000 kHz	30.45	Quasi Peak	-32.21
1	325.500000000 kHz	28.70	Quasi Peak	-30.86
1	456.000000000 kHz	32.12	Quasi Peak	-24.65
2	519.000000000 kHz	34.22	Average	-11.78
1	813.750000000 kHz	28.12	Quasi Peak	-27.88
1	1.385250000 MHz	32.63	Quasi Peak	-23.37

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

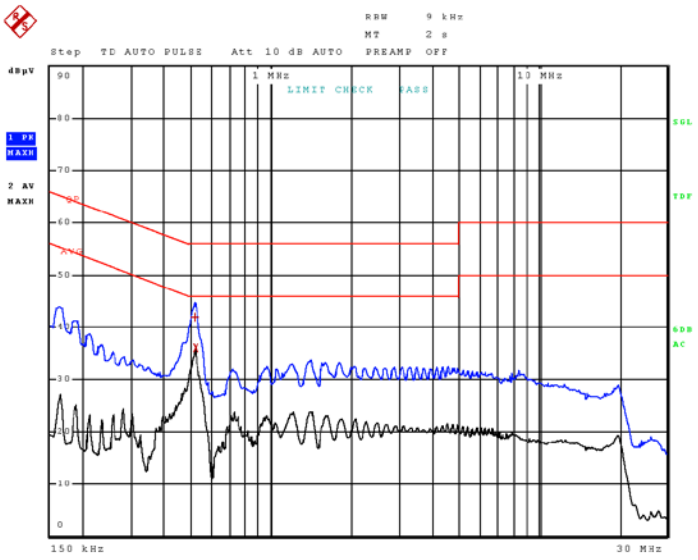
Test Data: Tuned to 54 MHz, Line 1 Peak Plot

09.Oct 19 16:18

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: 2

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	514.500000000 kHz	41.85	Quasi Peak	-14.15
2	519.000000000 kHz	35.96	Average	-10.04

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

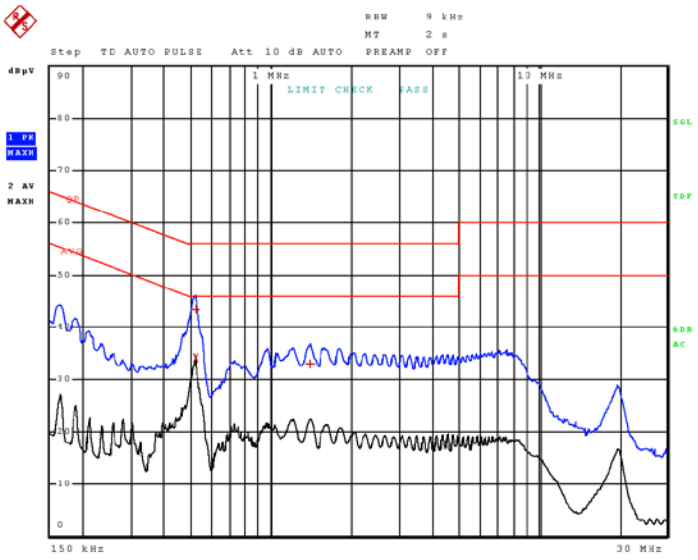
Test Data: Tuned to 54 MHz, Line 2 Peak Plot

09.Oct 19 16:16

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: 3

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
2	519.000000000 kHz	34.12	Average	-11.88
1	521.250000000 kHz	43.31	Quasi Peak	-12.69
1	1.396500000 MHz	32.94	Quasi Peak	-23.06

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

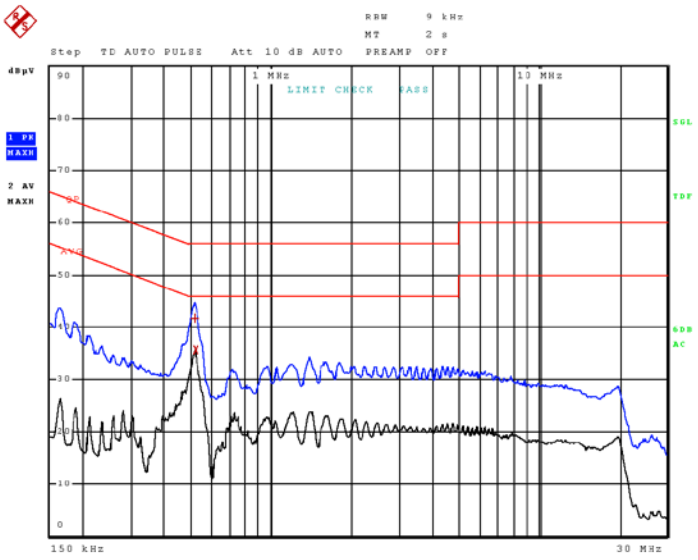
Test Data: Tuned to 108 MHz, Line 1 Peak Plot

09.Oct 19 16:39

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: 2

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	516.750000000 kHz	41.66	Quasi Peak	-14.34
2	519.000000000 kHz	35.67	Average	-10.33

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Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

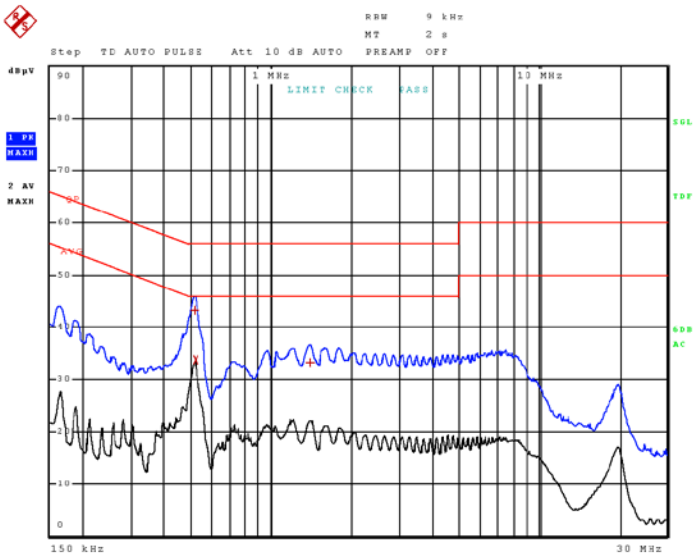
Test Data: Tuned to 108 MHz, Line 2 Peak Plot

09.Oct 19 16:42

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: 3

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	514.500000000 kHz	43.16	Quasi Peak	-12.84
2	519.000000000 kHz	33.71	Average	-12.29
1	1.394250000 MHz	33.16	Quasi Peak	-22.84

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Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

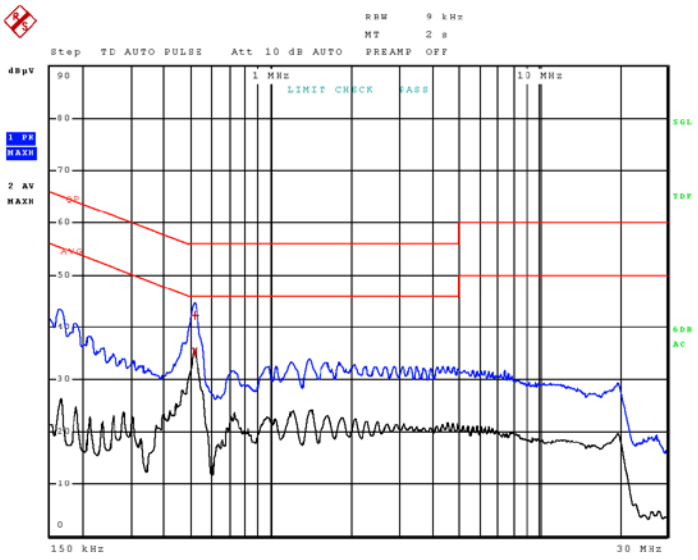
Test Data: Tuned to 174 MHz, Line 1 Peak Plot

09.Oct 19 16:45

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: 2

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	514.500000000 kHz	42.31	Quasi Peak	-13.69
2	516.750000000 kHz	35.35	Average	-10.65

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

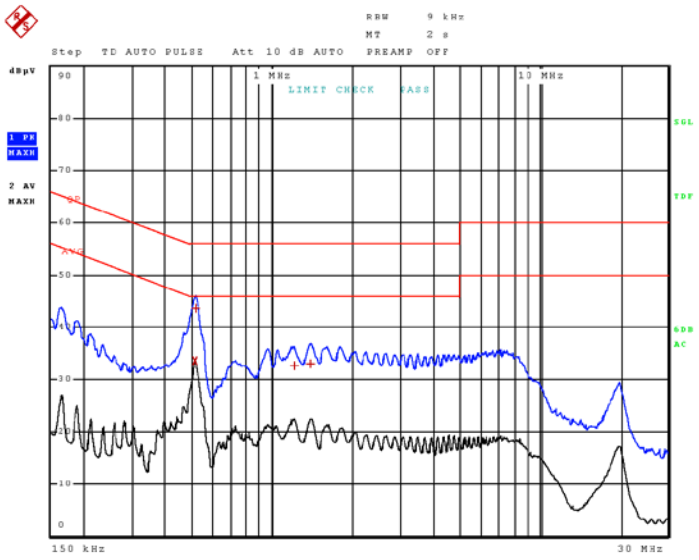
Test Data: Tuned to 174 MHz, Line 2 Peak Plot

09.Oct 19 16:43

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: 4

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
2	512.250000000 kHz	33.48	Average	-12.52
1	514.500000000 kHz	43.57	Quasi Peak	-12.43
1	1.205250000 MHz	32.69	Quasi Peak	-23.31
1	1.389750000 MHz	33.00	Quasi Peak	-23.00

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

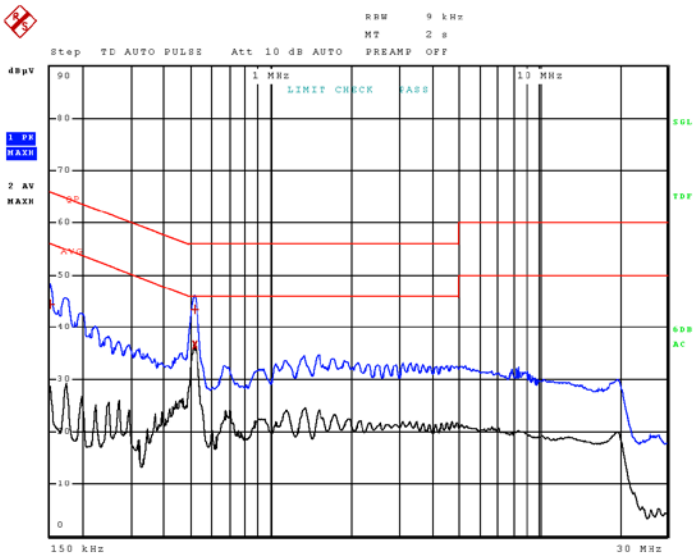
Test Data: Tuned to 406 MHz, Line 1 Peak Plot

10.Oct 19 14:53

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: 3

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	44.26	Quasi Peak	-21.74
1	514.500000000 kHz	43.48	Quasi Peak	-12.52
2	514.500000000 kHz	36.57	Average	-9.43

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Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

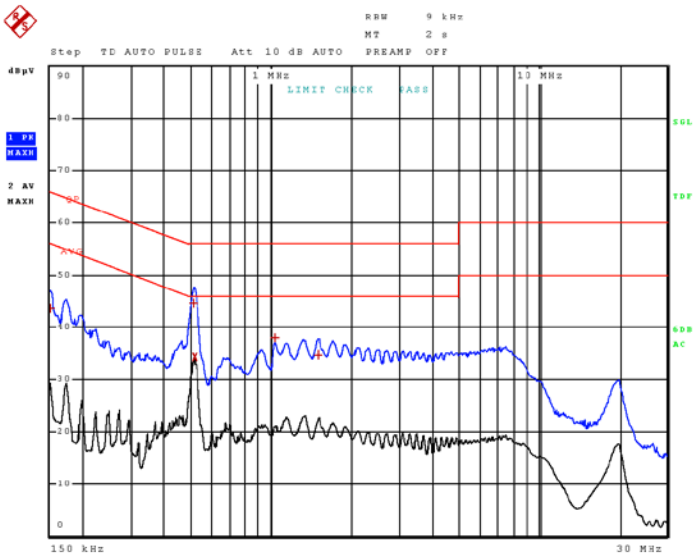
Test Data: Tuned to 406 MHz, Line 2 Peak Plot

10.Oct 19 14:56

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: 5

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	43.64	Quasi Peak	-22.36
1	512.250000000 kHz	44.50	Quasi Peak	-11.50
2	514.500000000 kHz	34.37	Average	-11.63
1	1.027500000 MHz	37.85	Quasi Peak	-18.15
1	1.497750000 MHz	34.68	Quasi Peak	-21.32

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

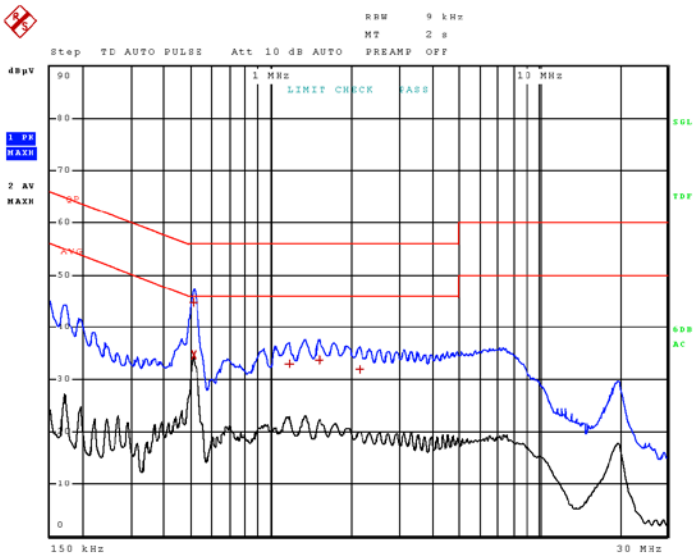
Test Data: Tuned to 512 MHz, Line 1 Peak Plot

10.Oct 19 14:59

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: 5

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	512.250000000 kHz	44.70	Quasi Peak	-11.30
2	512.250000000 kHz	34.77	Average	-11.23
1	1.164750000 MHz	32.96	Quasi Peak	-23.04
1	1.513500000 MHz	33.76	Quasi Peak	-22.24
1	2.141250000 MHz	31.77	Quasi Peak	-24.23

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

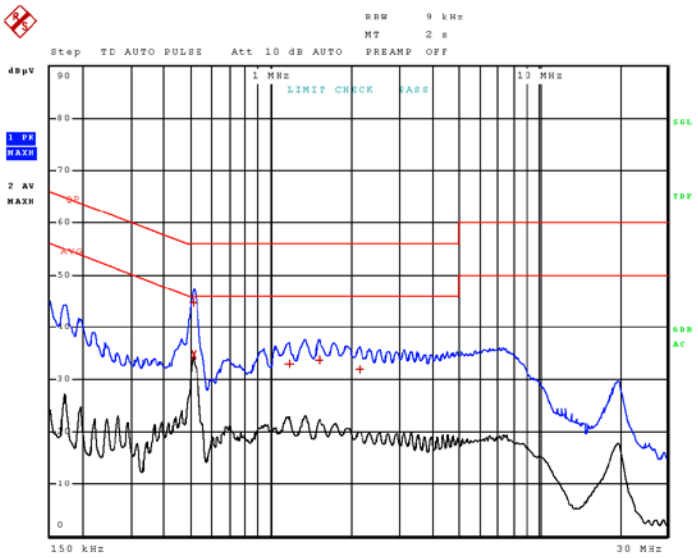
Test Data: Tuned to 512 MHz, Line 2 Peak Plot

10.Oct 19 14:59

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: 5

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	512.250000000 kHz	44.70	Quasi Peak	-11.30
2	512.250000000 kHz	34.77	Average	-11.23
1	1.164750000 MHz	32.96	Quasi Peak	-23.04
1	1.513500000 MHz	33.76	Quasi Peak	-22.24
1	2.141250000 MHz	31.77	Quasi Peak	-24.23

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Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

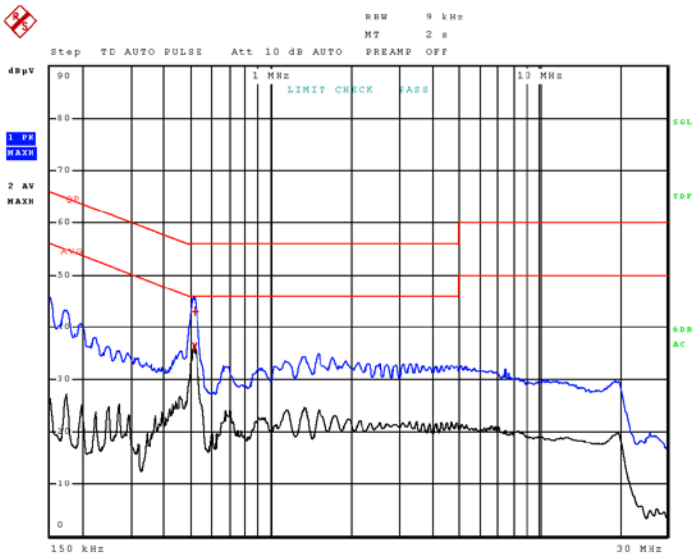
Test Data: Tuned to 806 MHz, Line 1 Peak Plot

10.Oct 19 15:03

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: 2

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	514.500000000 kHz	43.05	Quasi Peak	-12.95
2	514.500000000 kHz	36.30	Average	-9.70

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

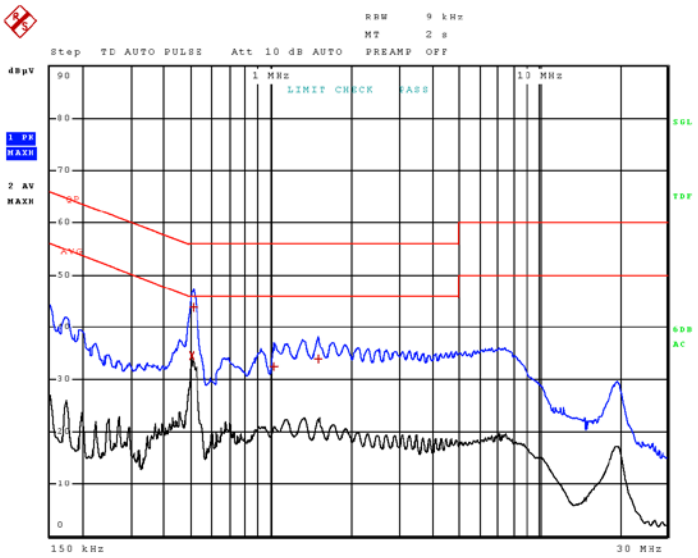
Test Data: Tuned to 806 MHz, Line 2 Peak Plot

10.Oct 19 15:53

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: 4

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
2	503.250000000 kHz	34.49	Average	-11.51
1	512.250000000 kHz	43.83	Quasi Peak	-12.17
1	1.020750000 MHz	32.46	Quasi Peak	-23.54
1	1.497750000 MHz	33.99	Quasi Peak	-22.01

Page 1 of 2

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

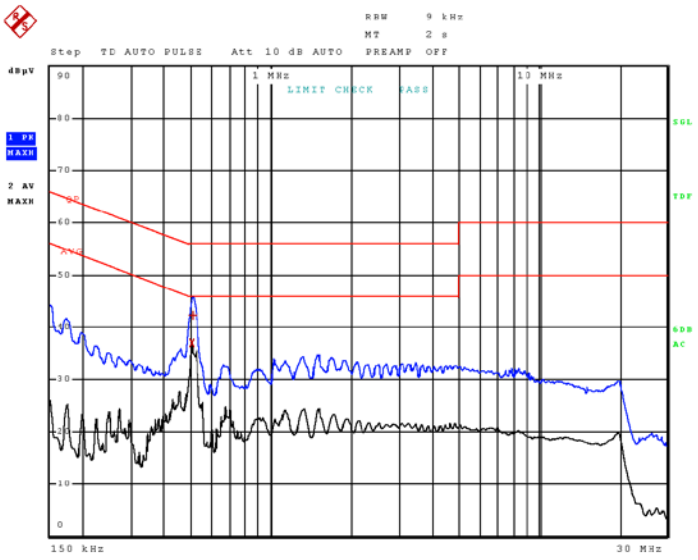
Test Data: Tuned to 956 MHz, Line 1 Peak Plot

10.Oct 19 15:57

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: 2

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
2	503.250000000 kHz	36.89	Average	-9.11
1	507.750000000 kHz	42.25	Quasi Peak	-13.75

Results Meets Requirements

POWER LINE CONDUCTED INTERFERENCE

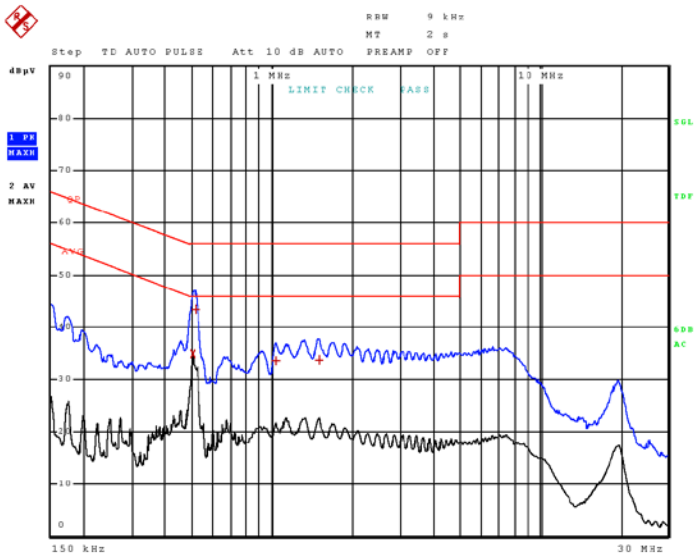
Test Data: Tuned to 956 MHz, Line 2 Peak Plot

10.Oct 19 15:55

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: 4

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
2	503.250000000 kHz	34.81	Average	-11.19
1	514.500000000 kHz	43.35	Quasi Peak	-12.65
1	1.027500000 MHz	33.47	Quasi Peak	-22.53
1	1.500000000 MHz	33.76	Quasi Peak	-22.24

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Results Meets Requirements

TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconical 1096	Eaton	94455-1	1096	08/01/17	08/01/20
Antenna: Log-Periodic 1243	Electro-Metrics	LPA-25	1243	03/29/18	03/29/20
CHAMBER	Panashield	3M	N/A	12/31/17	12/31/19
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	03/01/17	03/01/20
Software: Field Strength Program	Timco	N/A	Version 4.10.7.0	N/A	N/A
Antenna: Active Loop	ETS-Lindgren	6502	00062529	12/11/17	12/11/19
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	08/28/18	08/28/21
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01; KMKM-0670-00; KFKF-0198-01	02/29/19	02/29/21
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A

***EMI RECEIVER SOFTWARE VERSION**
The receiver firmware used was version 4.43 Service Pack 3

END OF TEST REPORT