

Prüfbericht-Nr.: <i>Test Report No.:</i>	17052720 003	Auftrags-Nr.: <i>Order No.:</i>	164045796	Seite 1 von 107 <i>Page 1 of 107</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	21.09.2015	
Auftraggeber: <i>Client:</i>	Lightcomm Technology Co., Ltd. RM1708-10, 17/F, PROSPERITY CENTRE, 25 CHONG YIP STREET, KWUN TONG, HONG KONG			
Prüfgegenstand: <i>Test item:</i>	11.6" QUAD CODE TABLET			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	DL1168A, MID1102-MA			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart E Section 15.407 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of receipt:</i>	18.09.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	ES150922017E-1, ES150922017E-2, ES150922017E-3			
Prüfzeitraum: <i>Testing period:</i>	19.09.2015 - 23.09.2015			
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen EMTEK Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
				
10.10.2015	Owen Tian/Senior Project Manager	10.10.2015	Sam Lin/Technical Certifier	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 26dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.6 SPURIOUS EMISSION

RESULT: Pass

5.1.7 CONDUCTED EMISSIONS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Shenzhen EMTEK Co., Ltd.

(FCC Registration No.: 709623)

Bldg 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions				
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2016-05-16
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2016-05-16
Cable	H+B	3M SF104-26.5	295838/4	2016-05-28
Cable	H+B	6M SF104-26.5	295840/4	2016-05-28
Pre-Amplifier	HP	8447F	2944A07999	2016-05-16
Bilog Antenna	Schwarzbeck	VULB9163	142	2016-05-28
Cable	Schwarzbeck	AK9513	ACRX1	2016-05-16
Cable	Rosenberger	N/A	FP2RX2	2016-05-16
Cable	Schwarzbeck	AK9513	CRPX1	2016-05-28
Cable	Schwarzbeck	AK9513	CRRX2	2016-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2016-05-16
Horn Antenna	Schwarzbeck	BBHA 9120	707	2016-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2016-05-16
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2016-05-16
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1- 3008K39- 100967-AP	2016-05-16
Pre-Amplifier	Lunar EM	LNA26G40-40	J101313102 8001	2016-05-16
Horn Antenna	AHS/USA	SAS-573	184	2016-05-16
Cable	H+B	0.5M SF104-26.5	289147/4	2016-05-16
Cable	H+B	3M SF104-26.5	295838/4	2016-05-16
Cable	H+B	6M SF104-26.5	295840/4	2016-05-16
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2016-05-16
Vector Signal Generator	Agilent	N5182B	My53050553	2016-05-28
Analog Signal Generator	Agilent	N5171B	My53050878	2016-05-28
Signal Analyzer	Agilent	N9010A	My53470879	2016-05-28
Power Meter	Agilent	PS-X10-100	N/A	2016-05-28
Temp. / Humidity Chamber	Kingson	THS-M1	242	2016-05-28
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	2016-05-16
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	2016-05-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	2016-05-16
Voltage Probe	Rohde & Schwarz	TK9416	N/A	2016-05-16
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	2016-05-16
50Ω Coaxial Switch	Anritsu	MP59B	M20531	2016-05-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

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

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

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2.7 Status of Facility Used for Testing

Shenzhen EMTEK Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are 11.6" quad code tablet with Wi-Fi, Bluetooth function.
 These models are identical except the model name.
 For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	MID
Type Designation	DL1168A, MID1102-MA
FCC ID	XMF-MID1102
Operating Frequency band	5180 – 5240MHz, 5745 – 5825MHz
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)
Antenna Gain	0.67dBi

Table 4: Technical Specification of Wi-Fi

Item	Description (IEEE 802.11a)
Operating Frequency band (MHz)	5180 – 5240MHz, 5745 – 5825MHz
Channel Number	9
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Data Rate (Mbps)	6, 9, 12, 18, 24, 36, 48, 54
Transmitter Output Power (Typical) (dBm)	14
Media Access Protocol	CSMA/CA with ACK

Table 5: Carrier Frequency of 802.11a

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5180 – 5240MHz, 5745 – 5825MHz	36	5180 MHz	153	5765 MHz
	40	5200 MHz	157	5785 MHz
	44	5220 MHz	161	5805 MHz
	48	5240 MHz	165	5825 MHz
	149	5745 MHz		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi mode (5180 – 5240MHz)
 - 1. Transmitting
 - a. Low Channel
 - b. High Channel
 - 2. Receiving
- B. On, Wi-Fi mode (5745 – 5825MHz)
 - 1. Transmitting
 - a. Low Channel
 - b. High Channel
 - 2. Receiving
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|--------------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - Constructional Drawing | - Instruction Manual |
| - PCB Layout | - Rating Label |
| - Photo Document | |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013. According to clause 3.1, all tests were applied on model MID1102-MA only.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC Adapter	TEKA	TEKA012-0502000UK	Input: AC 100-240V, 50/60Hz, 0.35A Output: DC 5V, 2A

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Mains of adapter	2 cores, non-shielded port, 3m	AC Power Input
Micro USB port	4 cores, non-shielded port, 3m	DC Power Input

4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test for below 1GHz

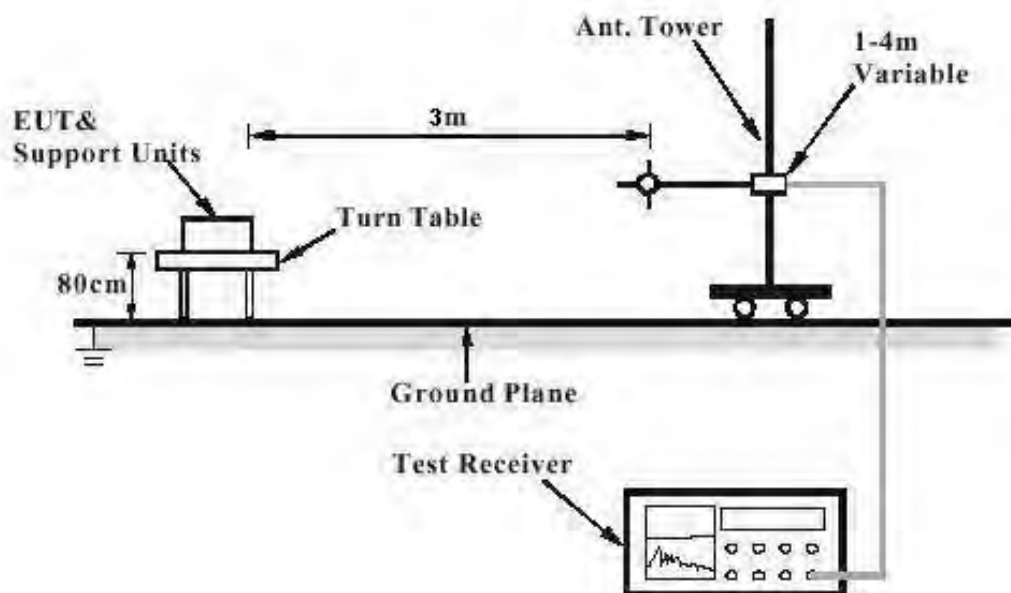


Diagram of Measurement Configuration for Radiation Test for above 1GHz

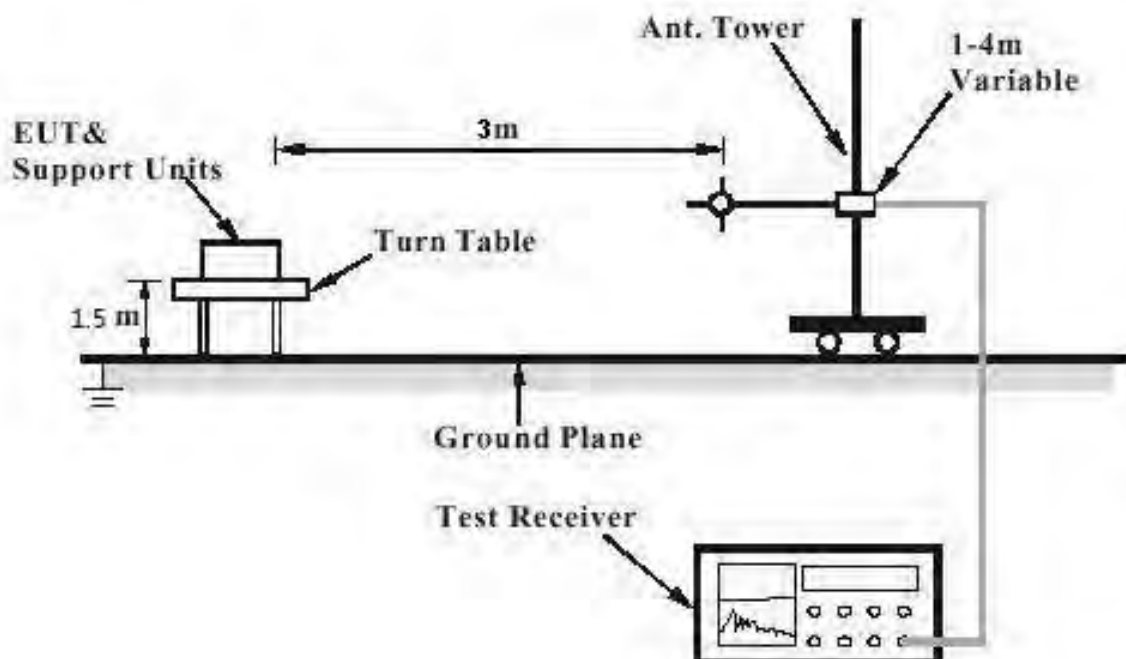


Diagram of Measurement Equipment Configuration for Conduction Measurement

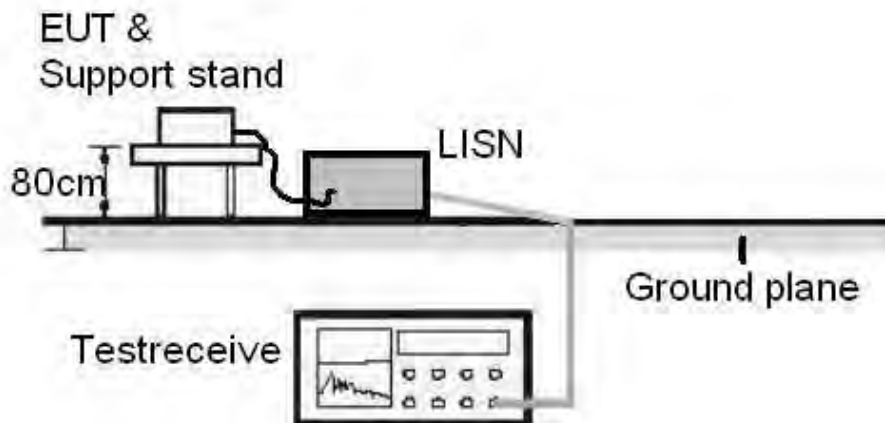
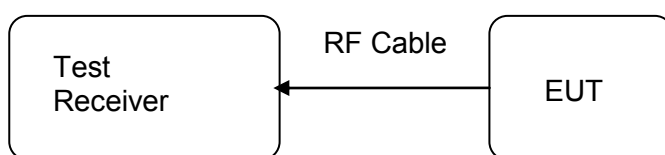


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard : FCC Part 15.203
Limit The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0.67dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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5.1.2 Peak Output Power**RESULT:****Pass**

Test date : 2015-09-21
Test standard : FCC Part 15.407(a)(1)
FCC Part 15.407(a)(3)
Basic standard : ANSI C63.10: 2013
Limit : 250mW / 1W
Kind of test site : Shielded room

Test setup

Test Channel : All channel
Operation Mode : A.1, B.1
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 6: Test result of Peak Output Power of 802.11a

Channel	Channel Frequency (MHz)	Peak Output Power	Limit	EIRP
		(dBm)	(dBm)	(dBm)
36	5180	13.72	24	14.50
40	5200	13.64	24	14.42
48	5240	13.35	24	14.13
149	5745	12.81	30	13.59
157	5785	12.94	30	13.72
165	5825	13.19	30	13.97

5.1.3 26dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2015-09-21
Test standard : FCC Part 15.407(a)(5)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded room

Test setup

Test Channel : All channel
Operation Mode : A.1, B.1
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 7: Test result of 26dB Bandwidth and 99% Bandwidth of 802.11a

Channel	Channel Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.92	17.00
40	5200	19.99	17.02
48	5240	20.01	17.00
149	5745	20.01	17.00
157	5785	19.98	17.00
165	5825	20.00	17.02

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5.1.4 6dB Bandwidth**RESULT:****Pass**

Date of testing : 2015-09-21
Test standard : FCC Part 15.407(e)
Basic standard : ANSI C63.10: 2013
Limit : 500kHz for 6dB bandwidth
Kind of test site : Shielded room

Test setup

Test Channel : All channel
Operation Mode : B.1
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 8: Test result of 6dB Bandwidth of 802.11a

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
149	5745	16.39	≥0.5
157	5785	16.39	≥0.5
165	5825	16.40	≥0.5

5.1.5 Power spectral density**RESULT:****Pass**

Date of testing : 2015-09-21
Test standard : FCC Part 15.407(a)(1)
FCC Part 15.407(a)(3)
Basic standard : ANSI C63.10: 2013
Limit : 17dBm/MHz, 30dBm/500kHz (33dBm/MHz)
Kind of test site : Shield room

Test setup

Test Channel : All channel
Operation mode : A.1, B.1
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

Table 9: Test result of power spectral density

Channel	Channel (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Conclusion
36	5180	-1.141	11	Pass
40	5200	-1.014	11	Pass
48	5240	-0.960	11	Pass
149	5745	-5.248	33	Pass
157	5785	-5.053	33	Pass
165	5825	-4.497	33	Pass

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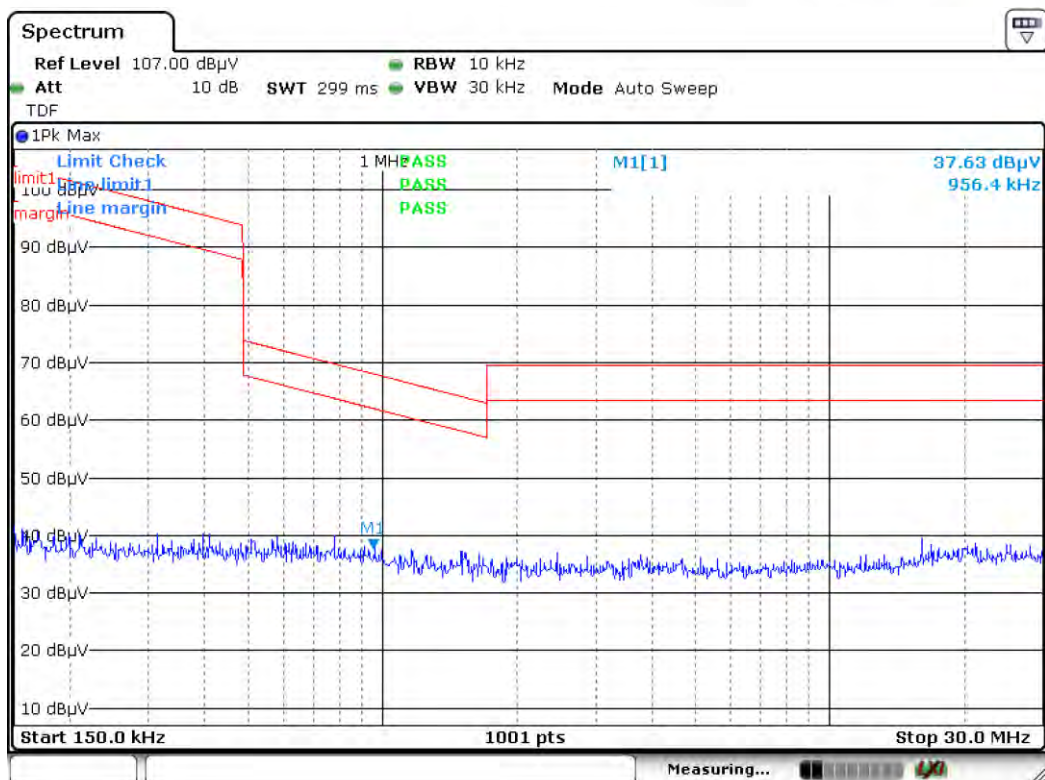
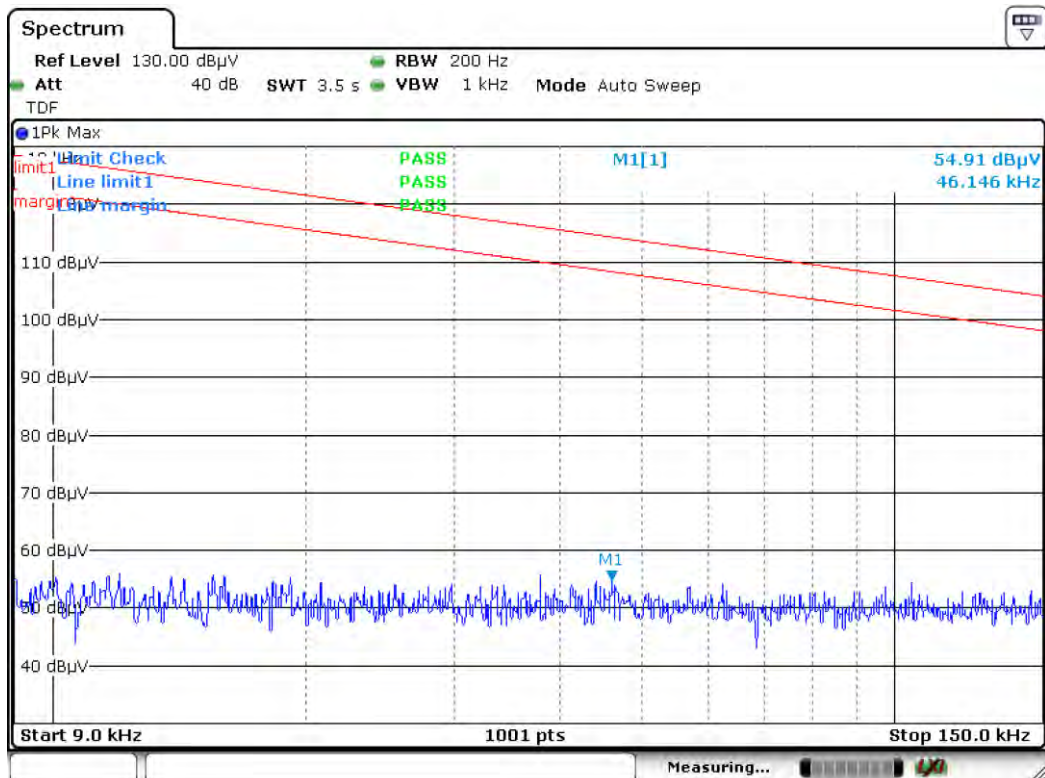
5.1.6 Spurious Emission**RESULT:****Pass**

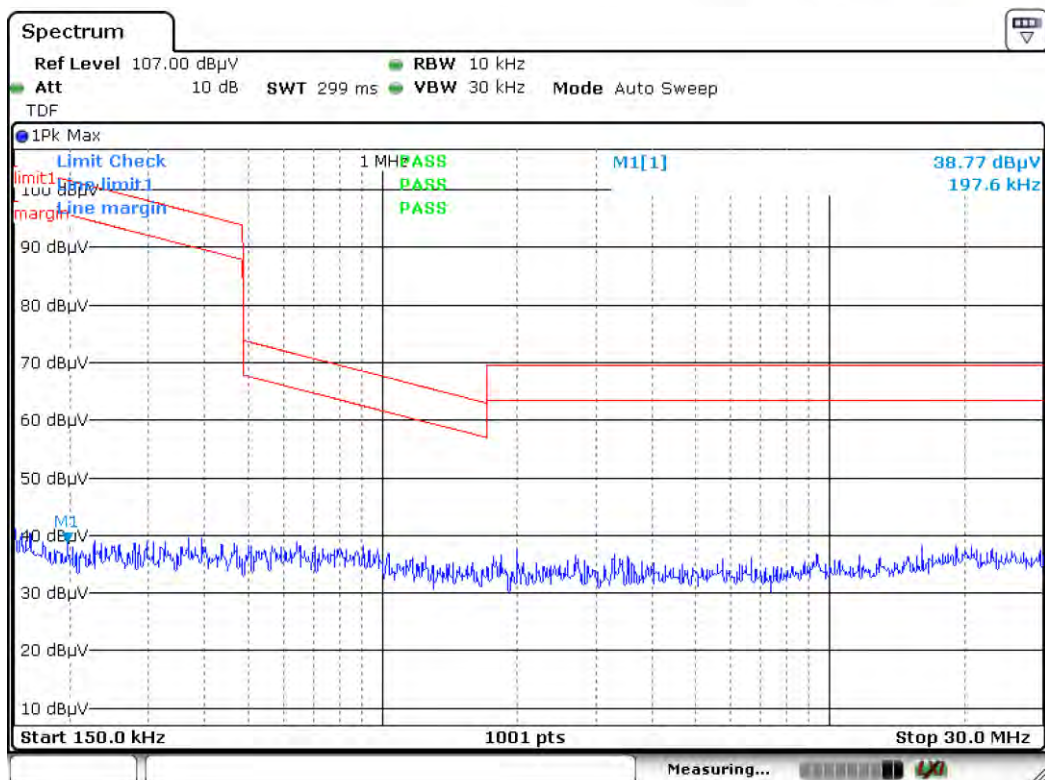
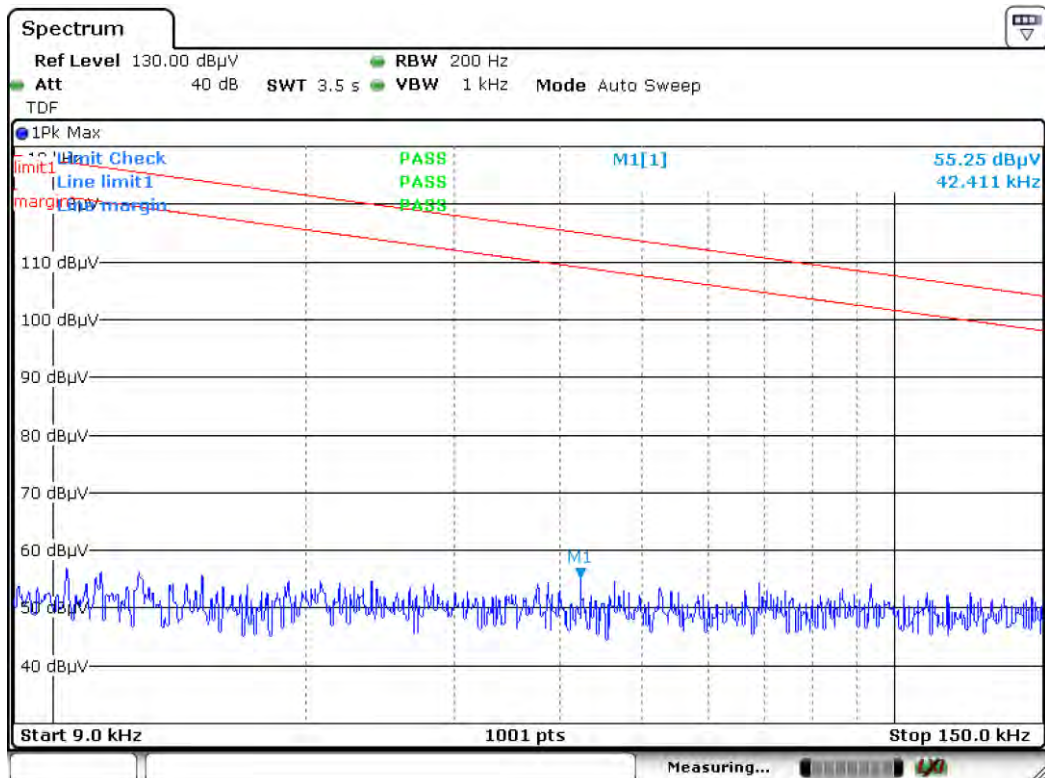
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Test standard	:	FCC part 15.407(b) KDB789033 D02 v01
Basic standard	:	ANSI C63.10: 2013
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

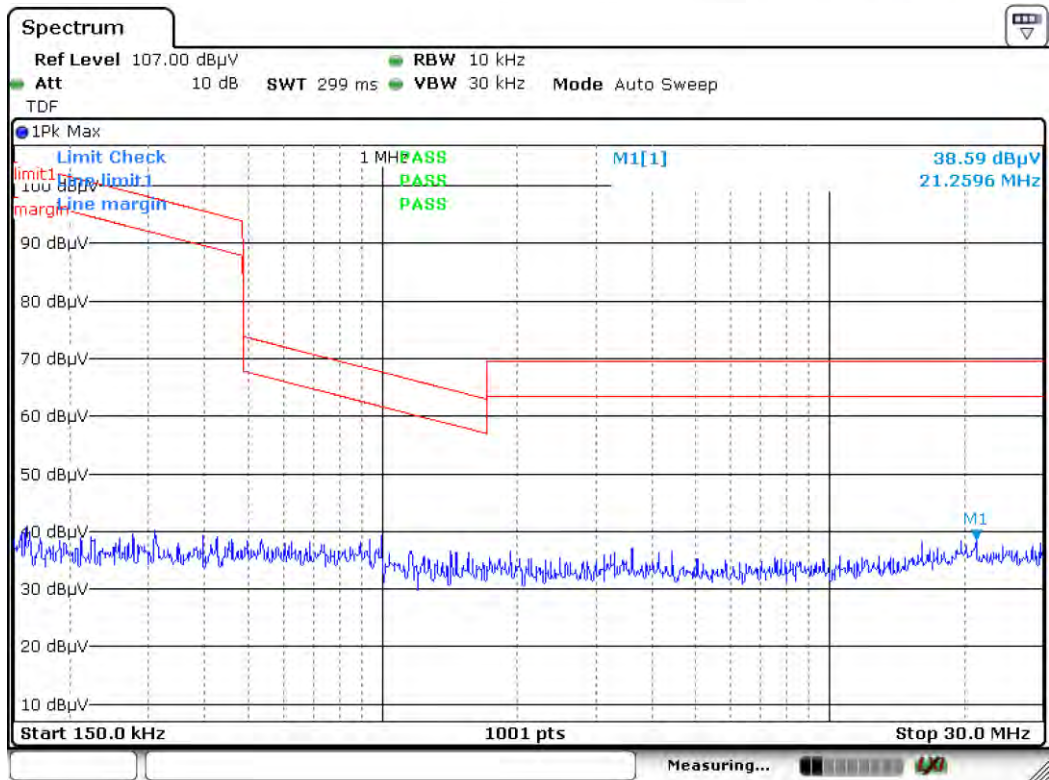
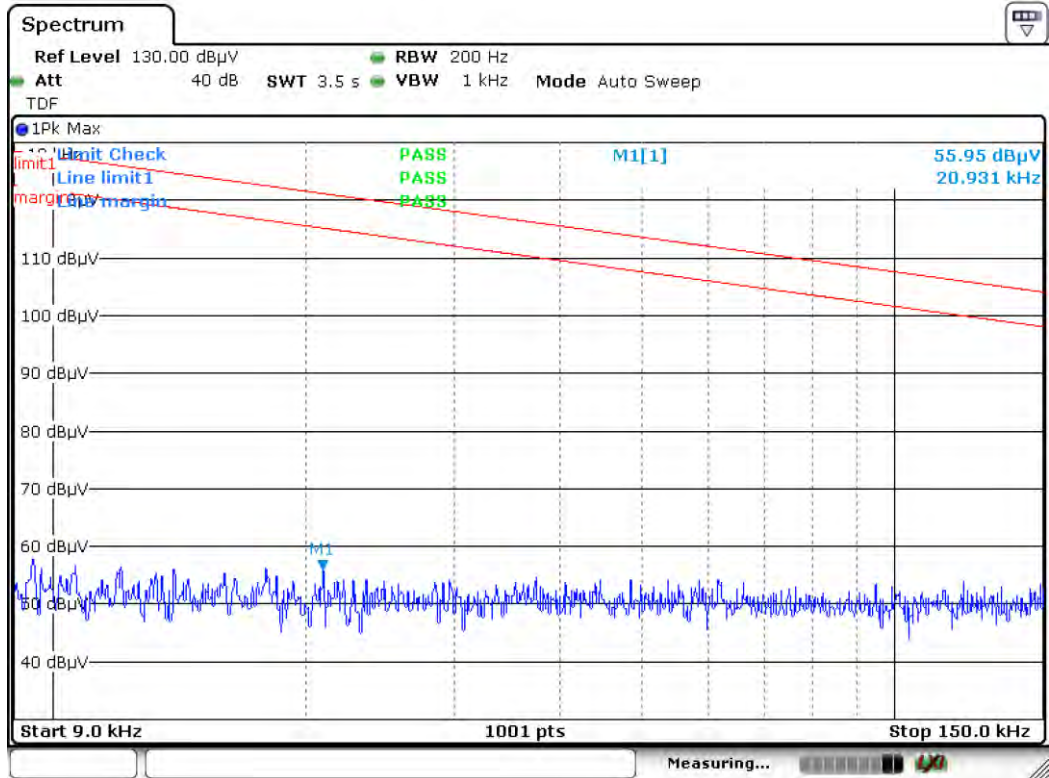
Test Channel	:	All channel
Operation mode	:	A.1, B.1
Ambient temperature	:	24°C
Relative humidity	:	53%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

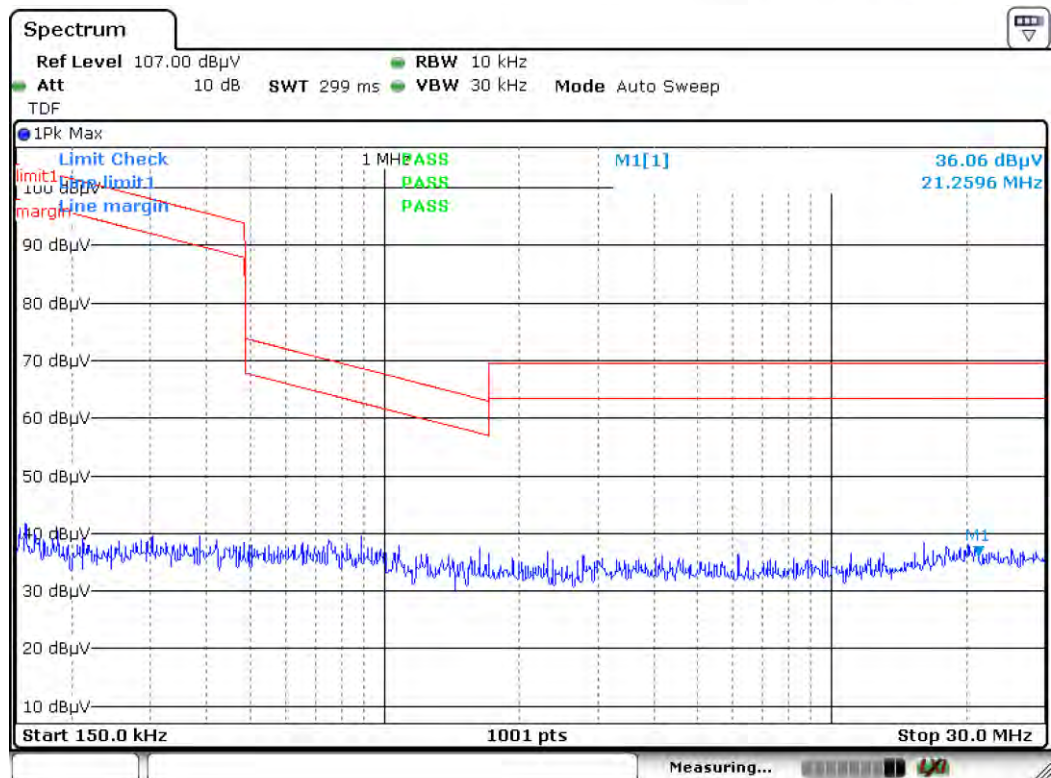
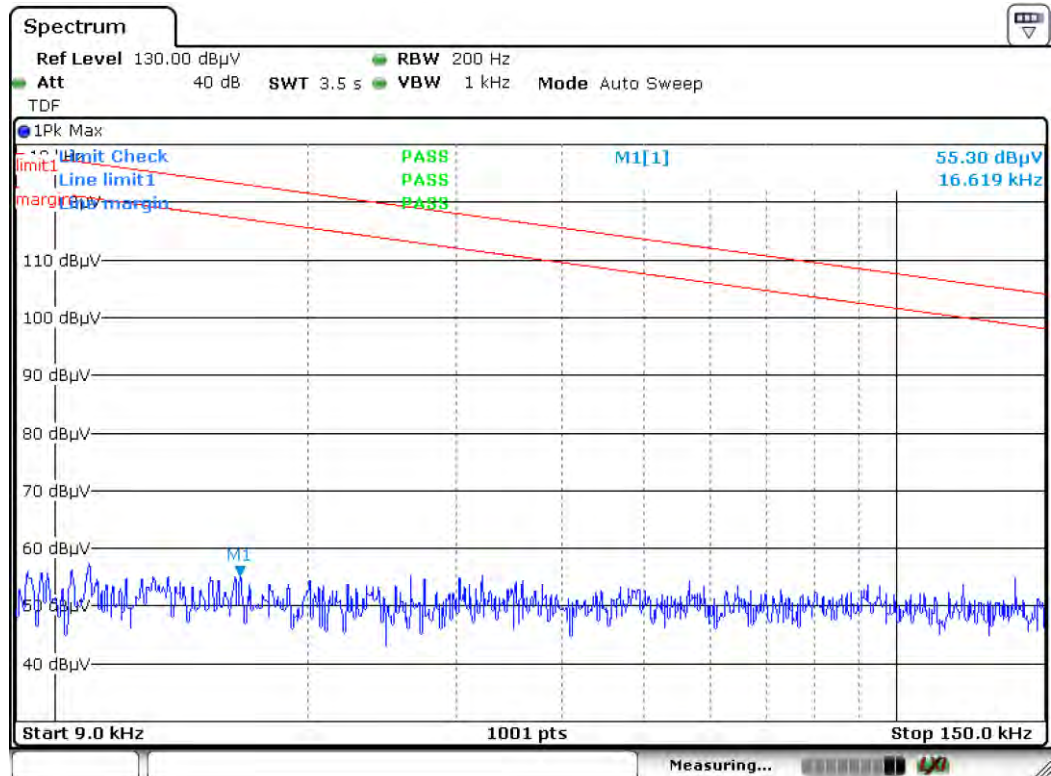
Test Plot of 5180MHz - X


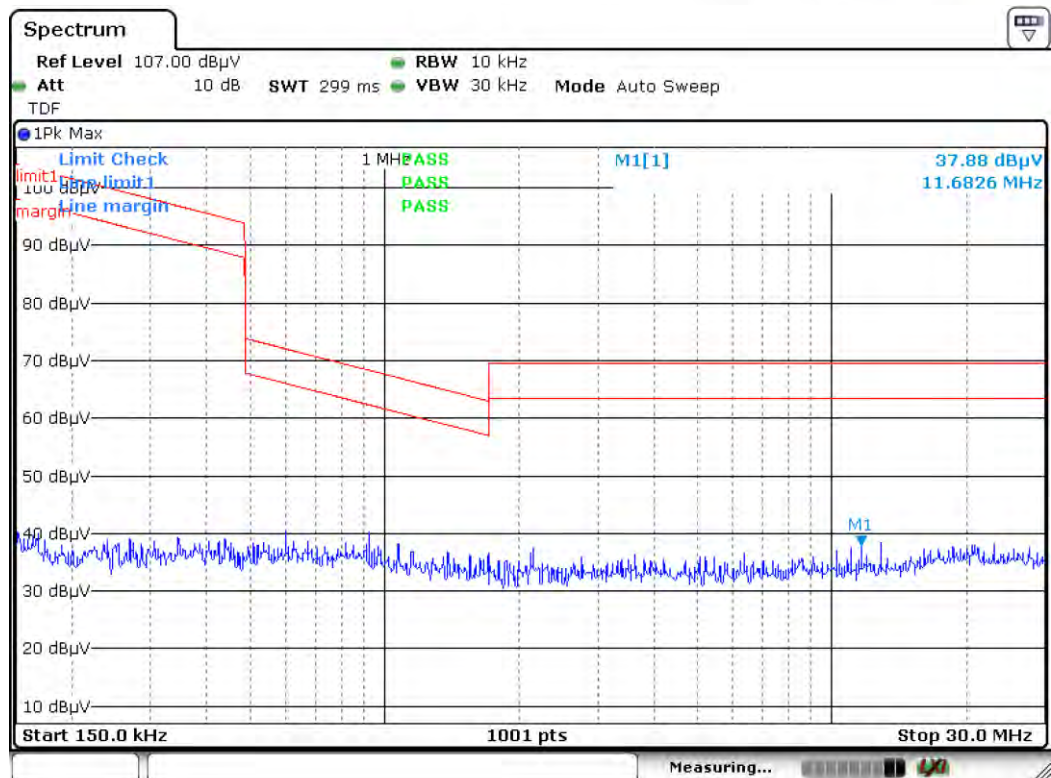
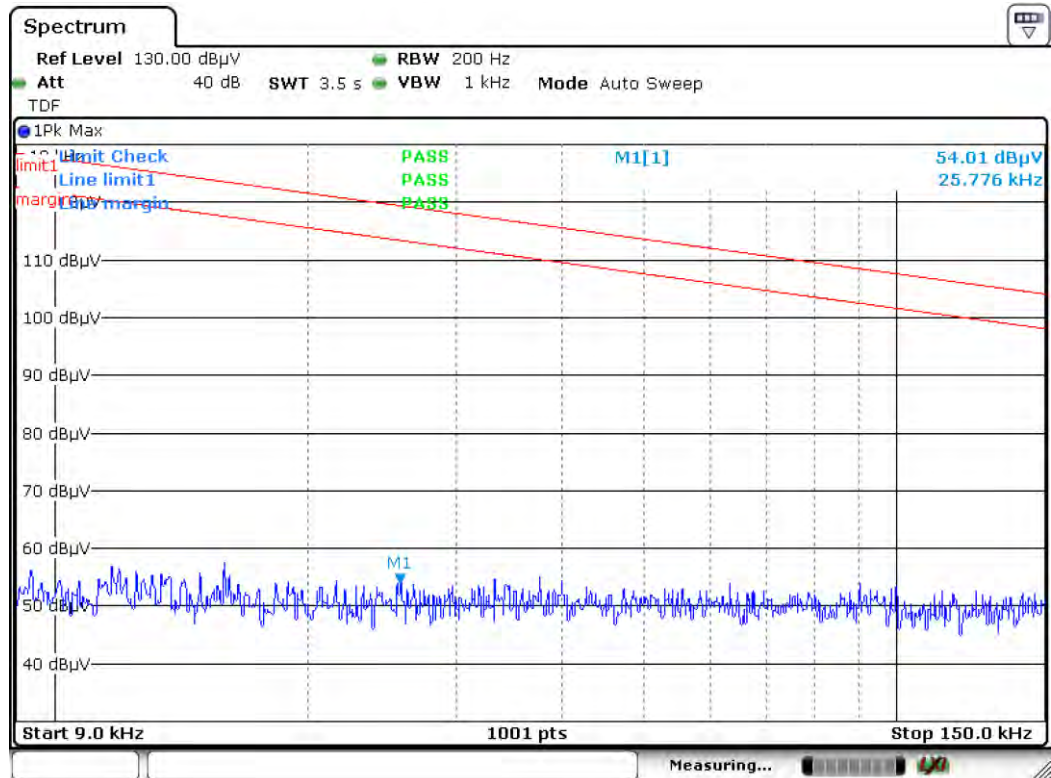
Test Plot of 5180MHz - Y


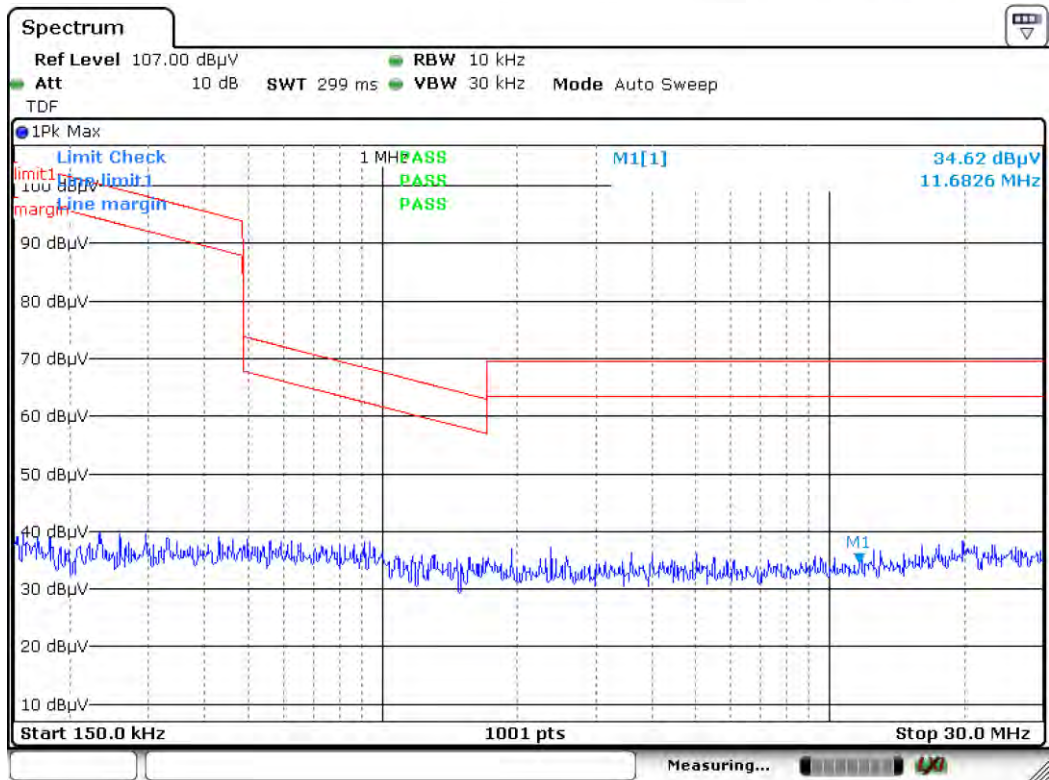
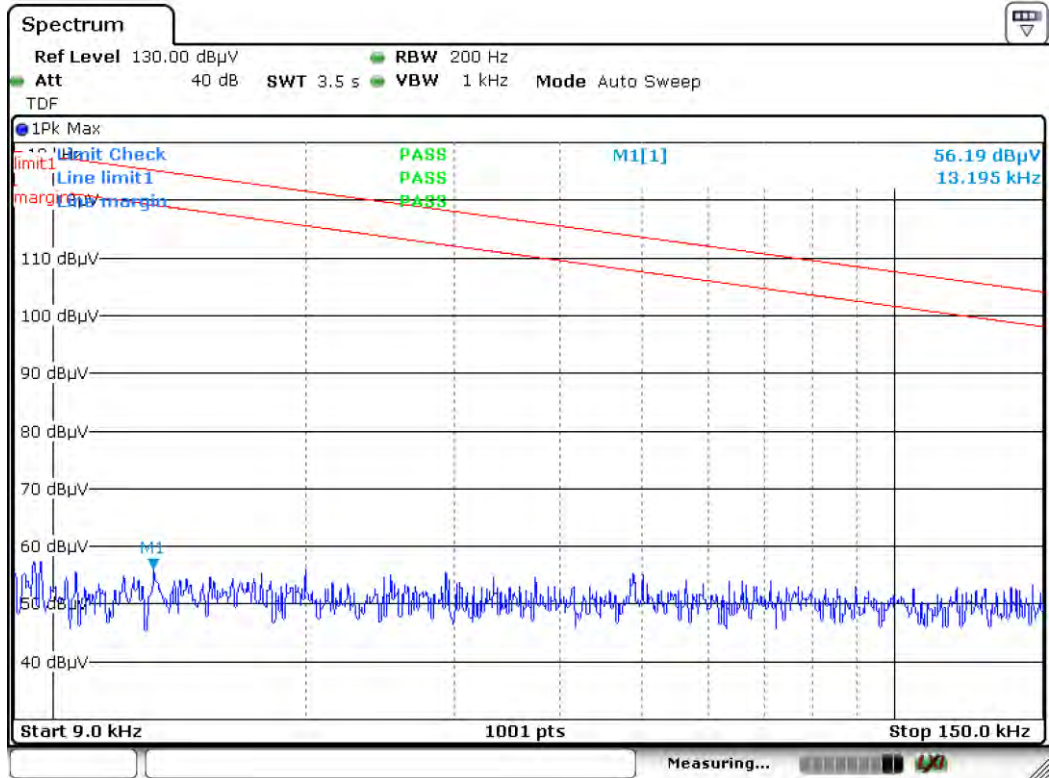
Test Plot of 5180MHz - Z

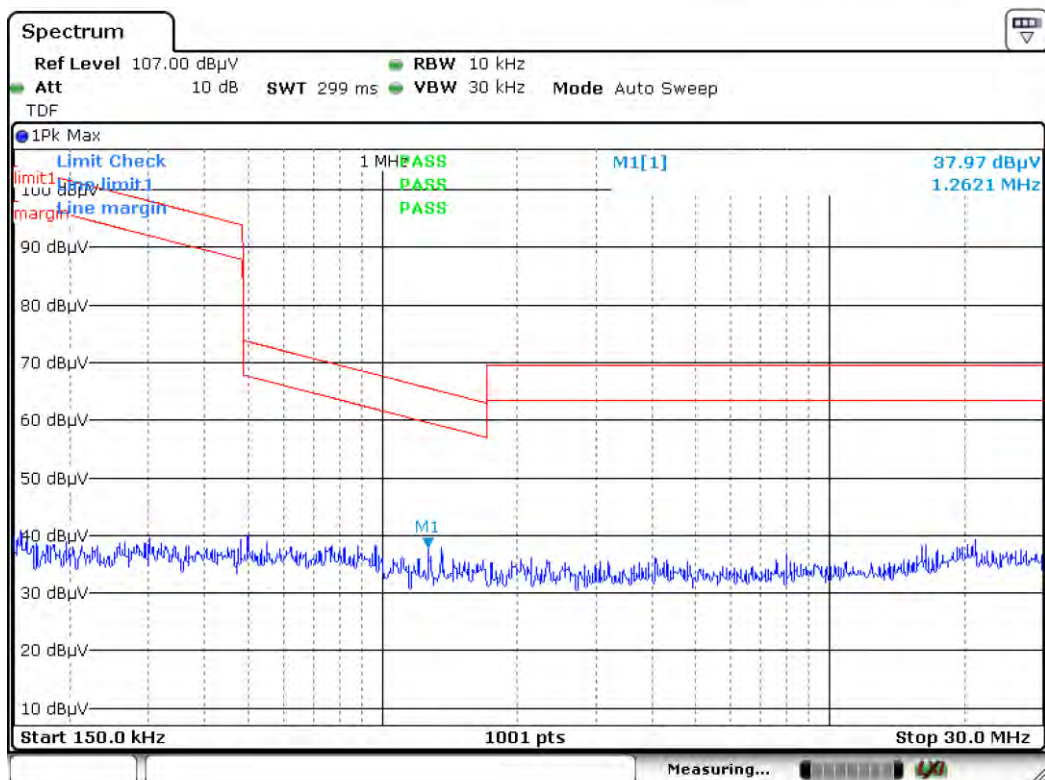
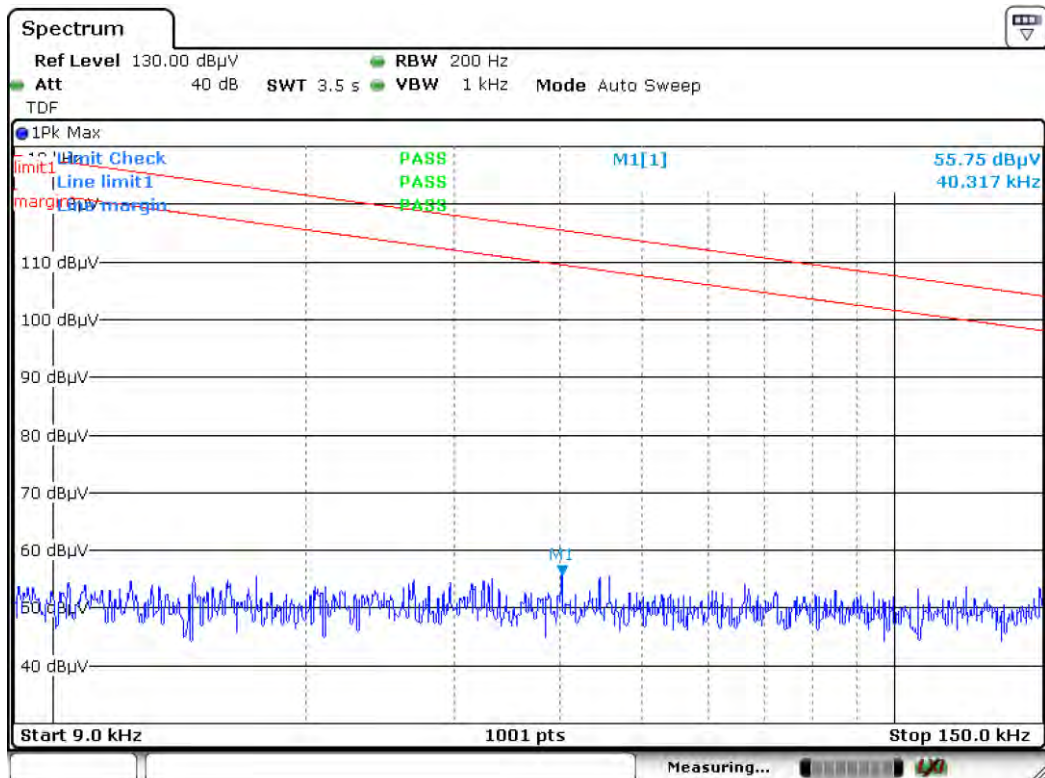


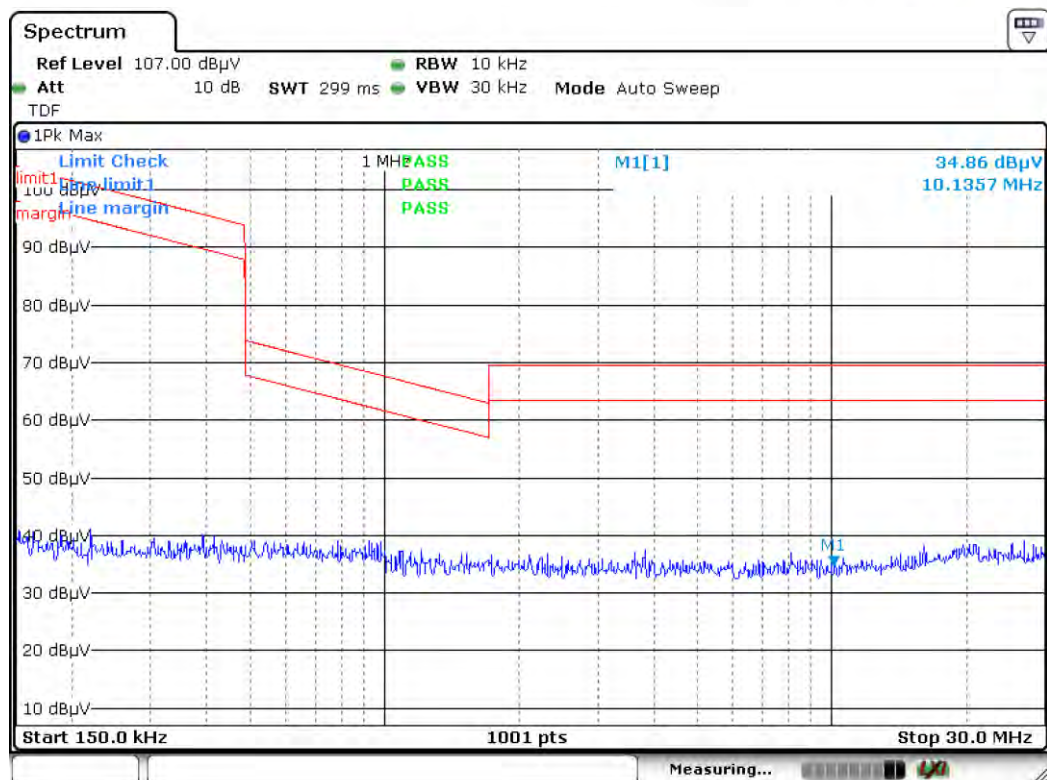
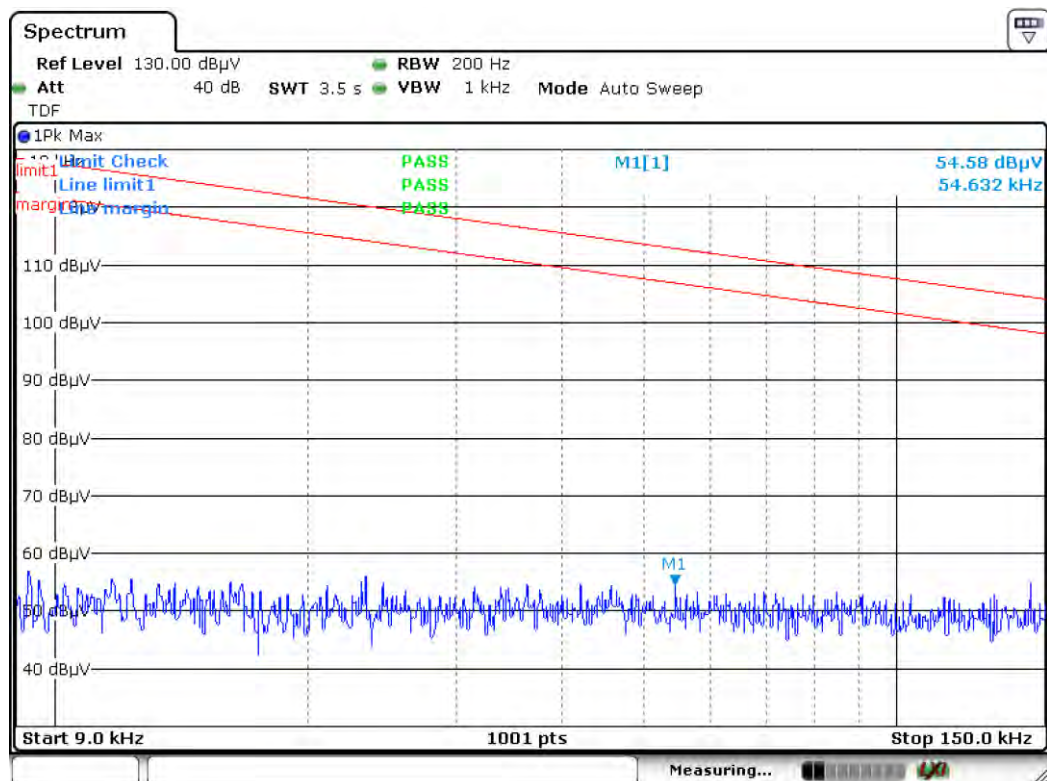
Test Plot of 5220MHz - X

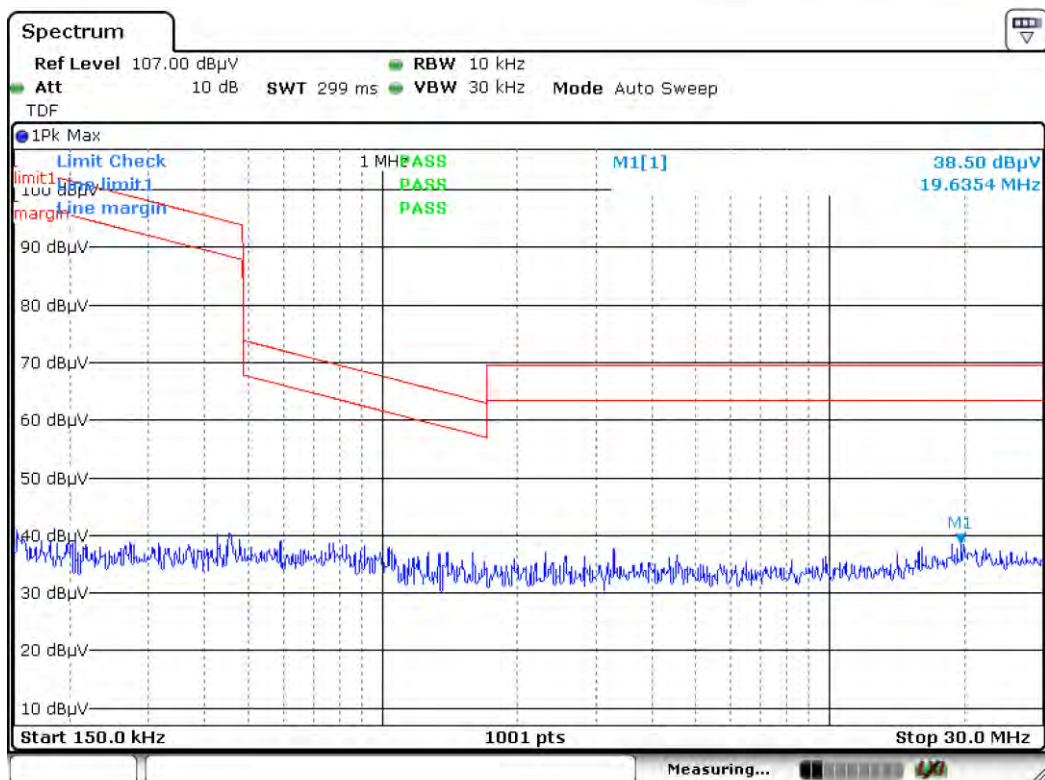
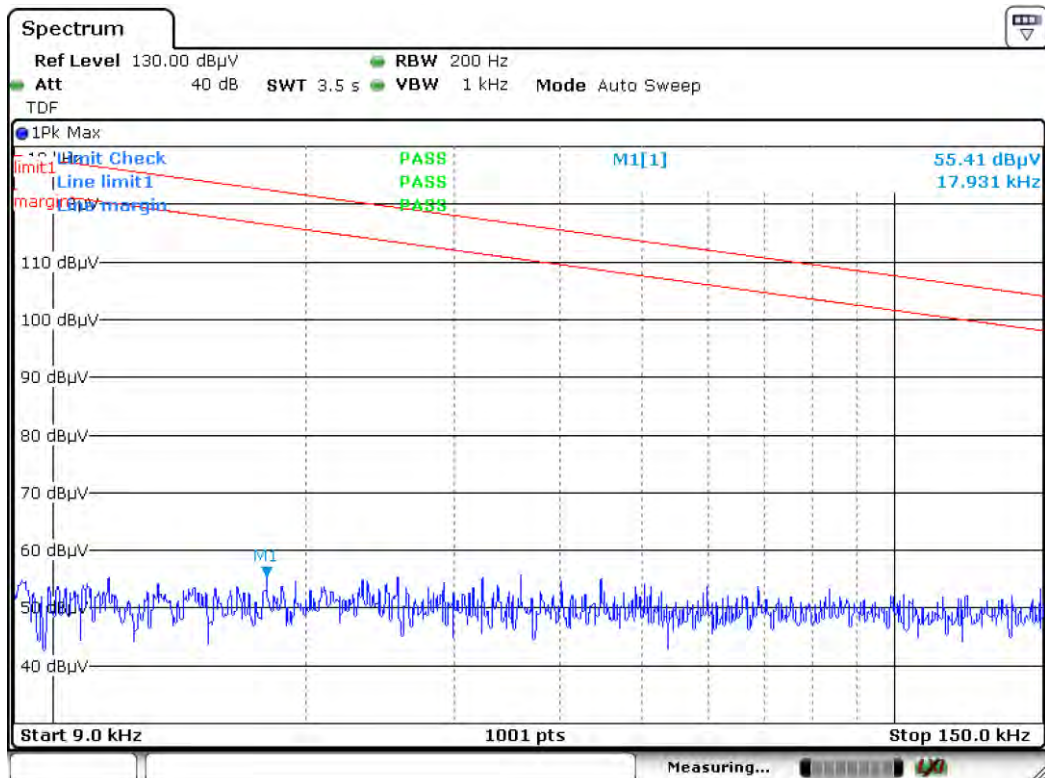


Test Plot of 5220MHz - Y


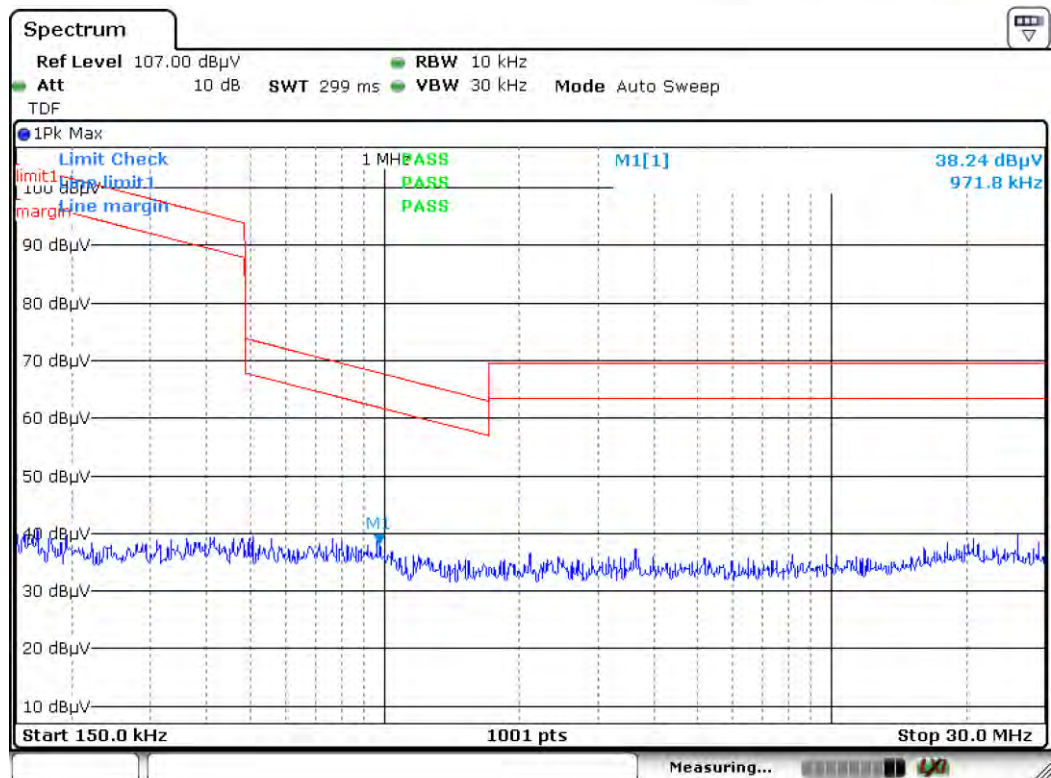
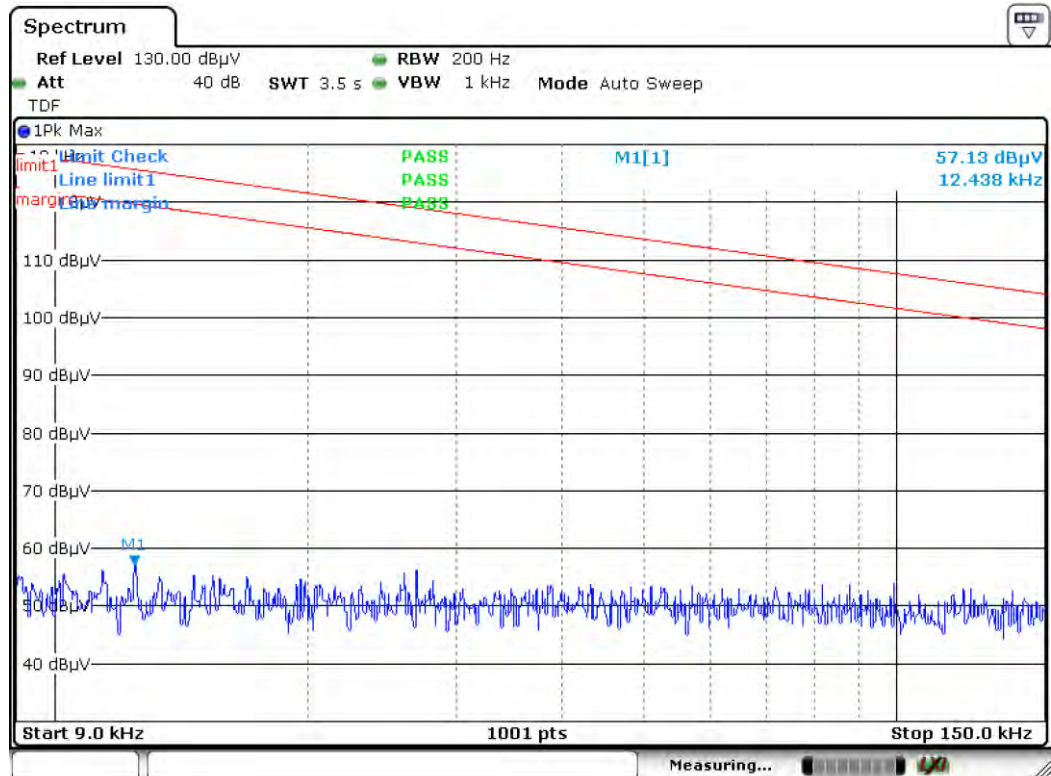
Test Plot of 5220MHz - Z


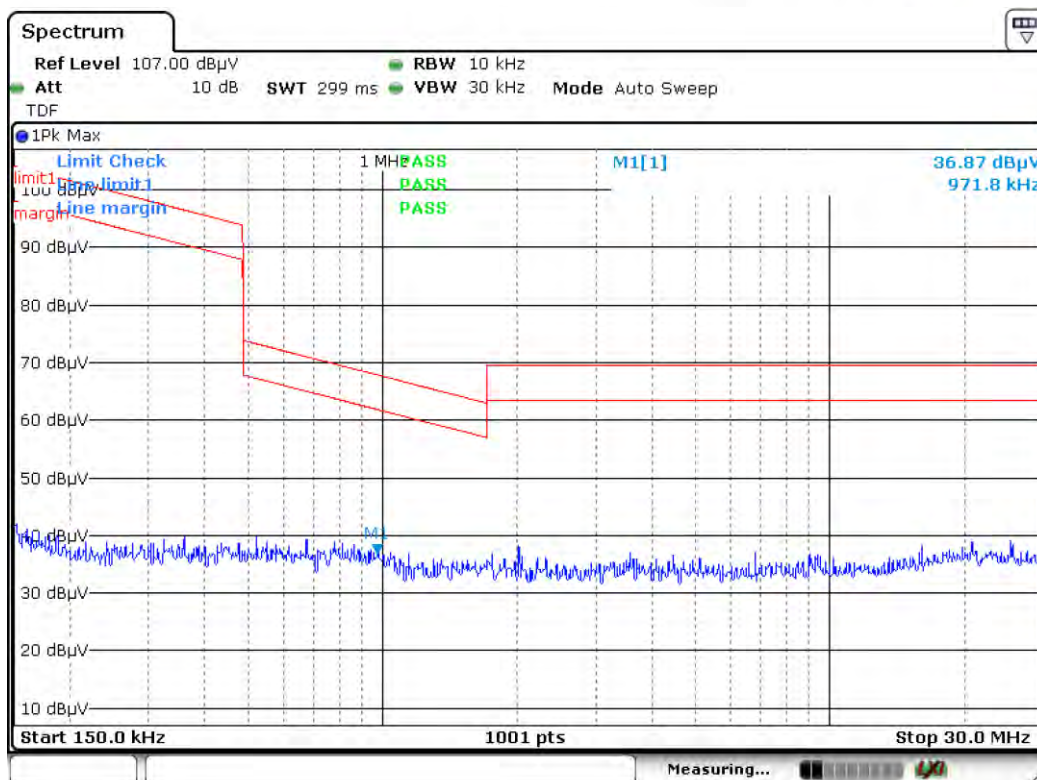
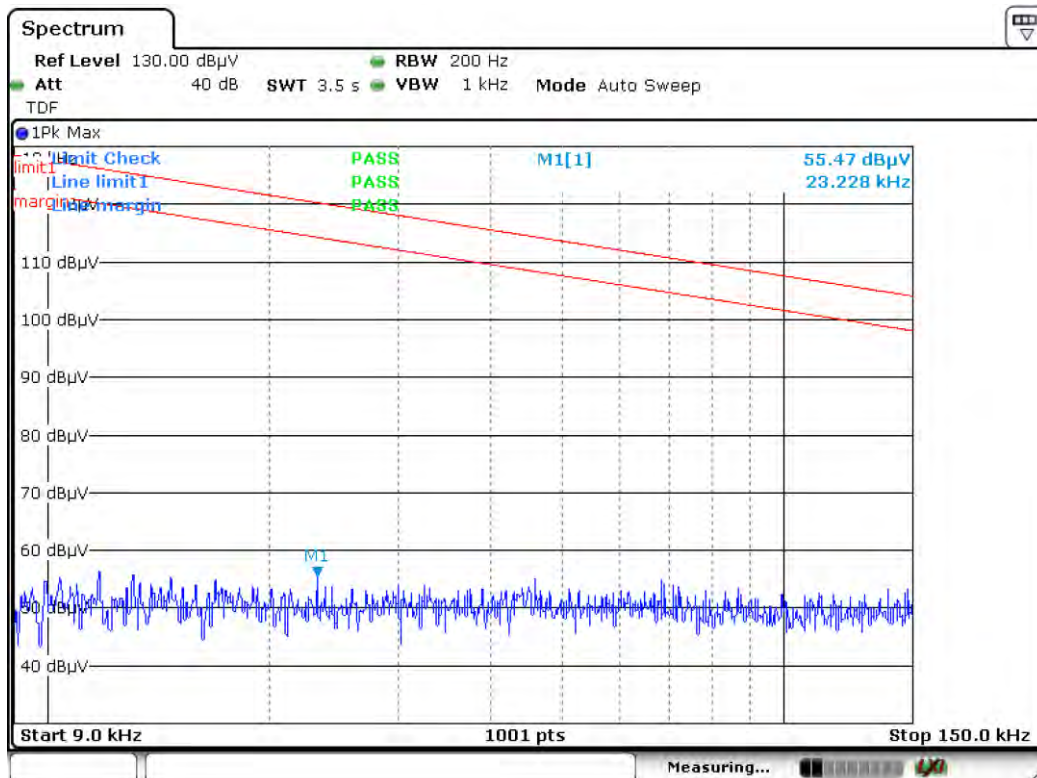
Test Plot of 5240MHz - X


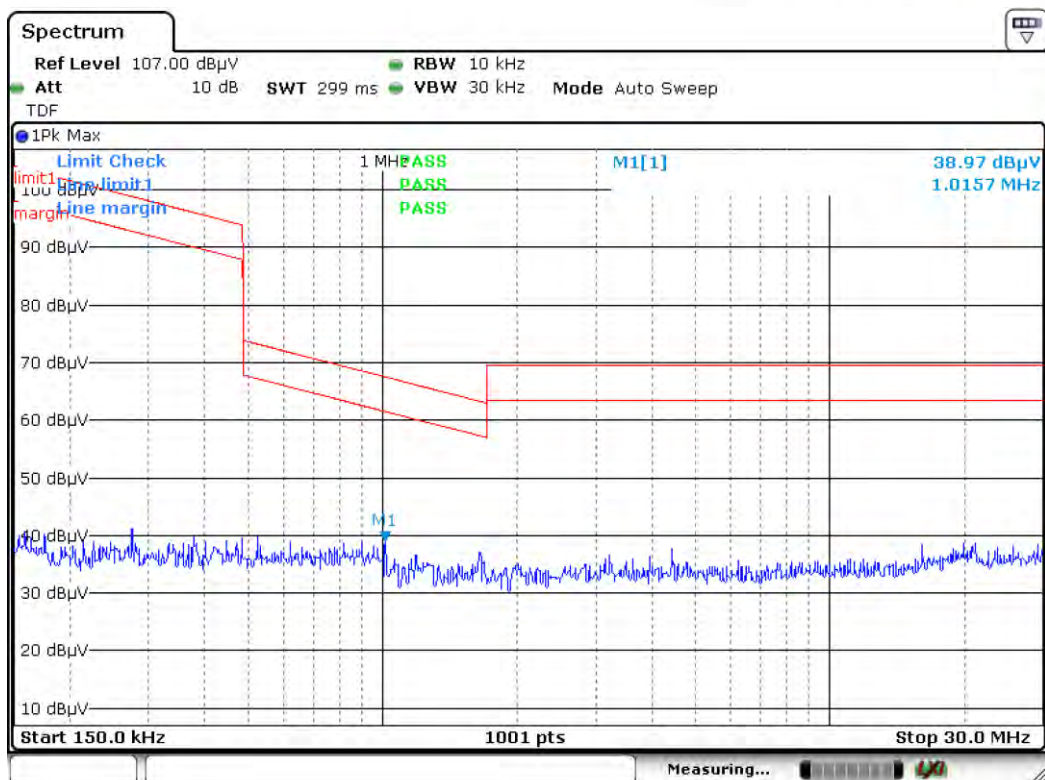
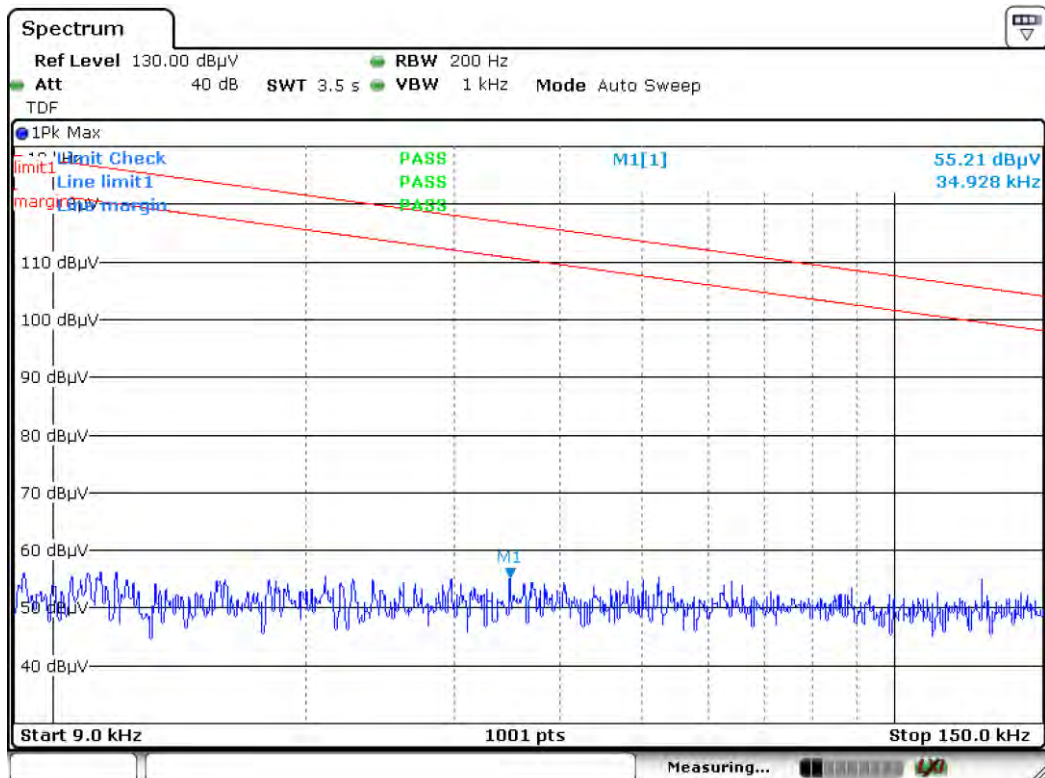
Test Plot of 5240MHz - Y


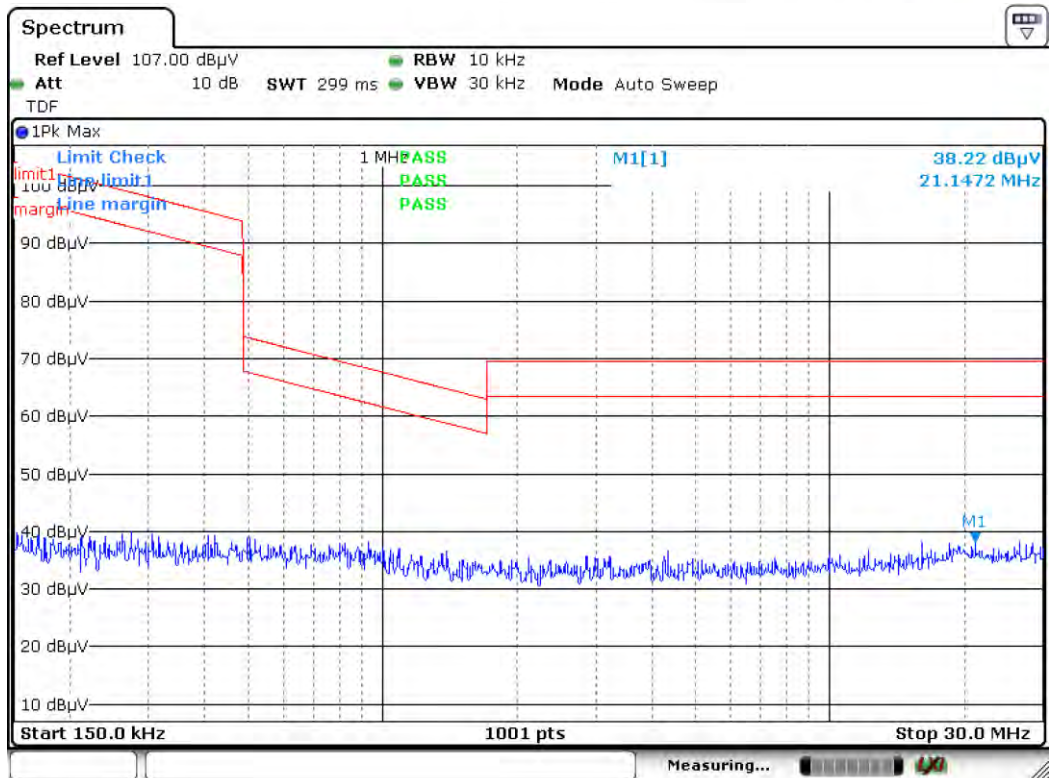
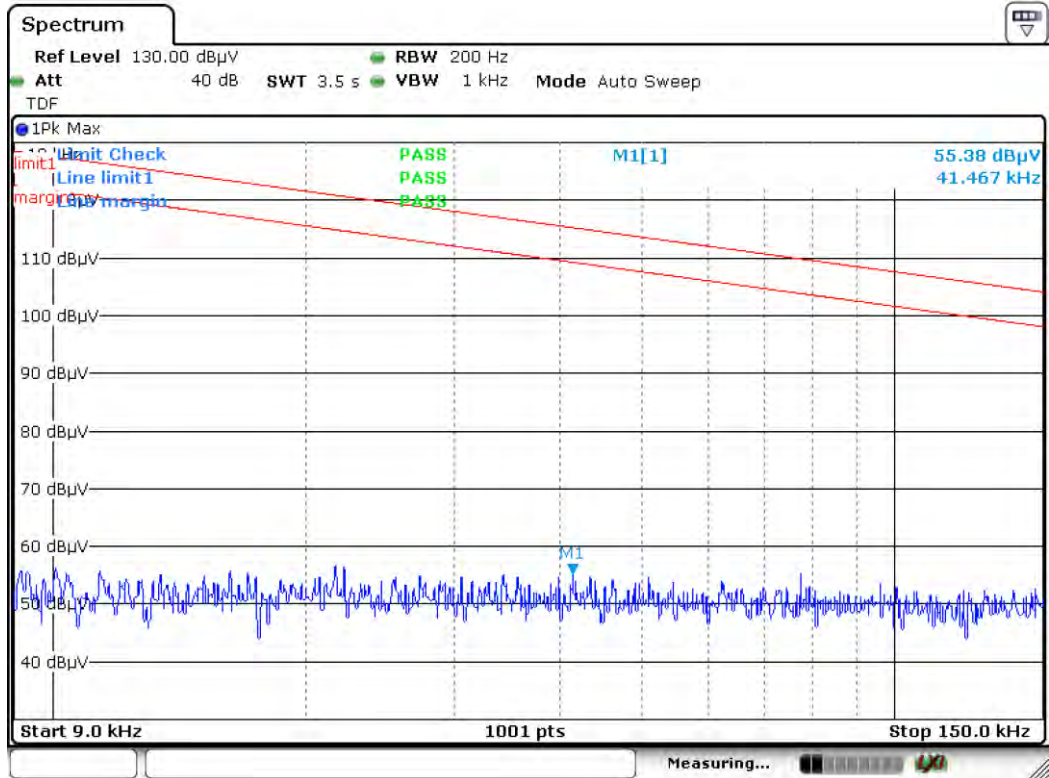
Test Plot of 5240MHz - Z


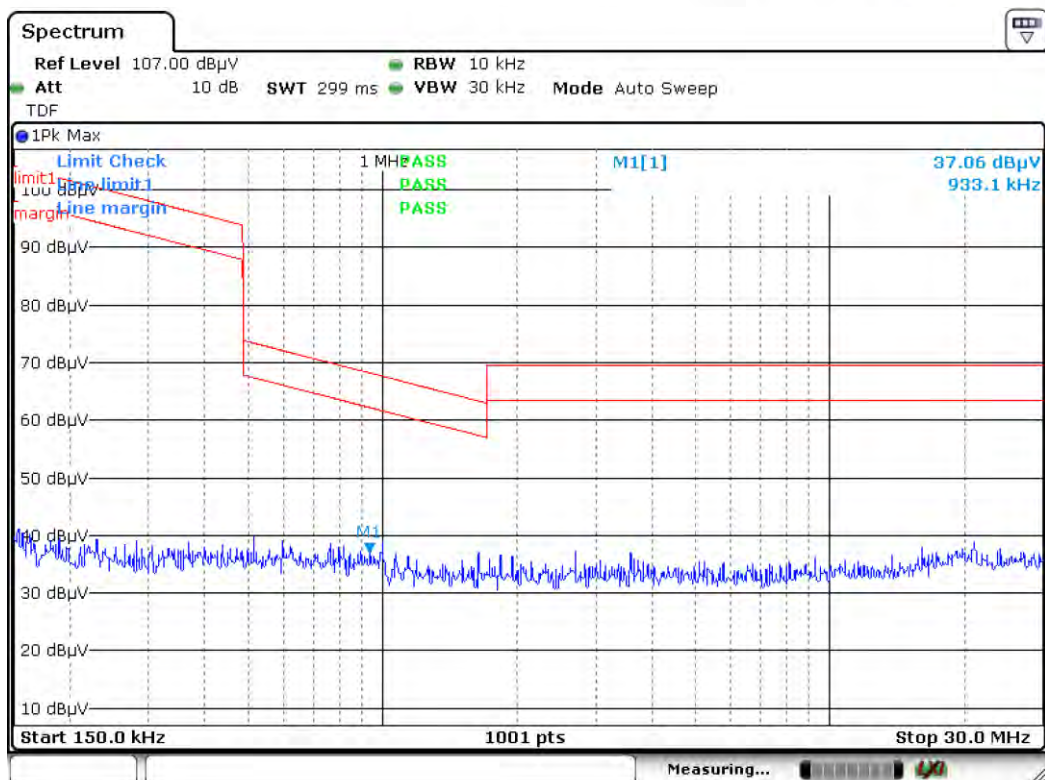
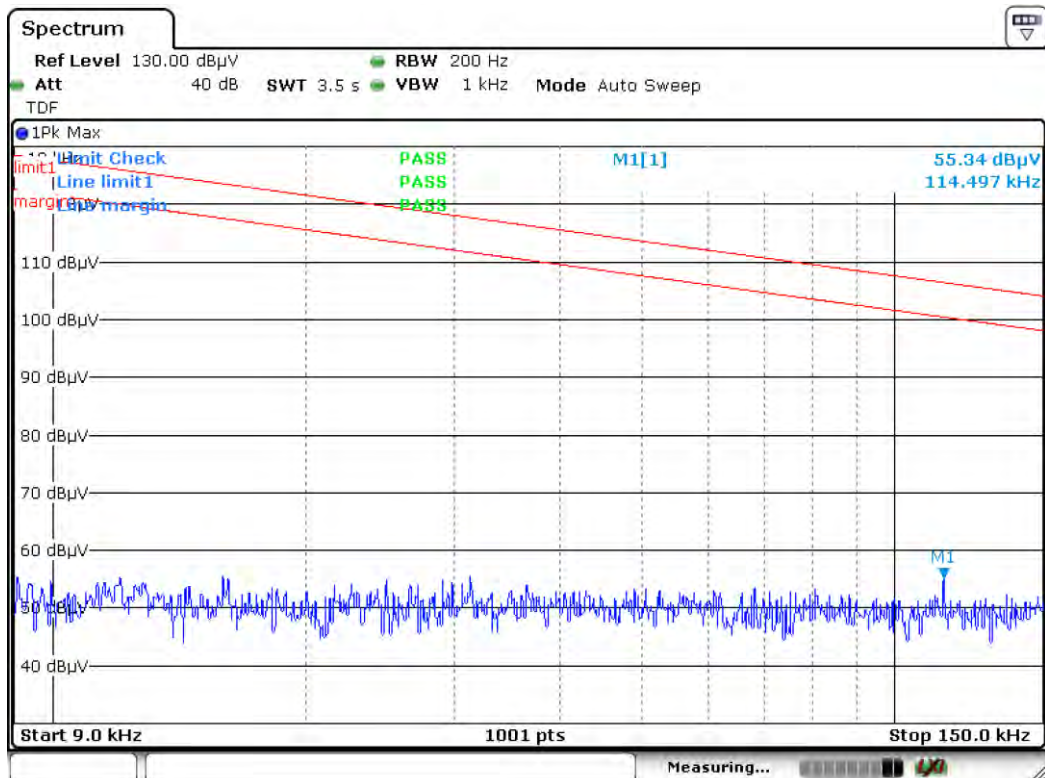
Test Plot of 5745MHz - X

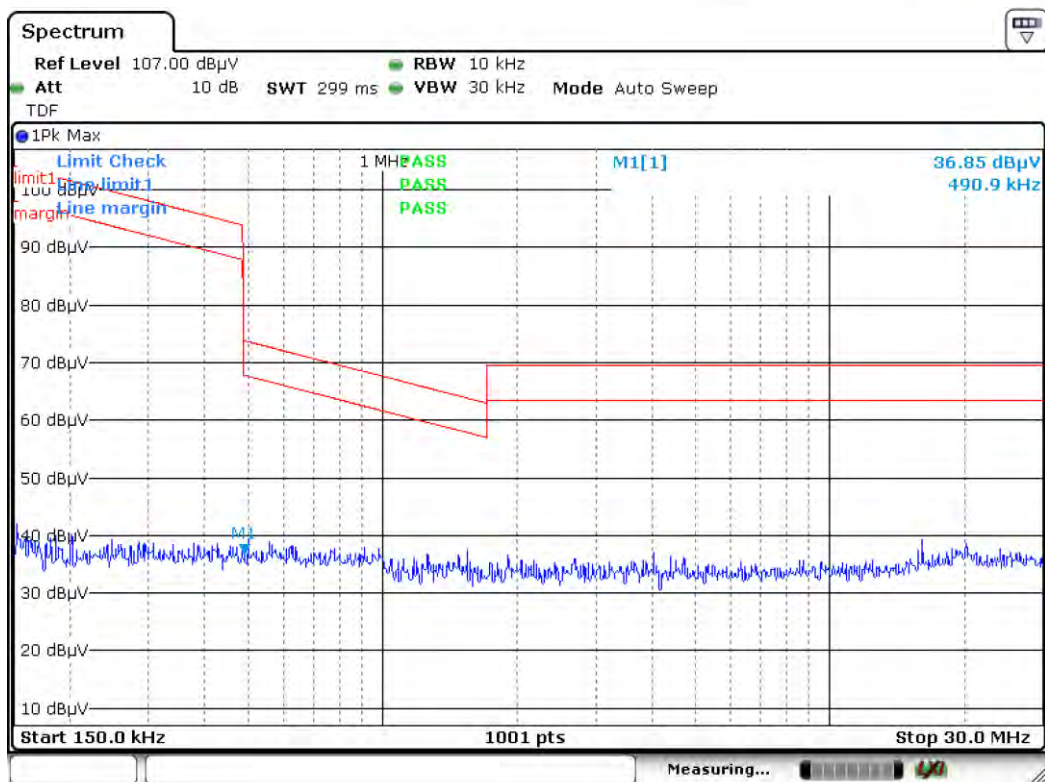
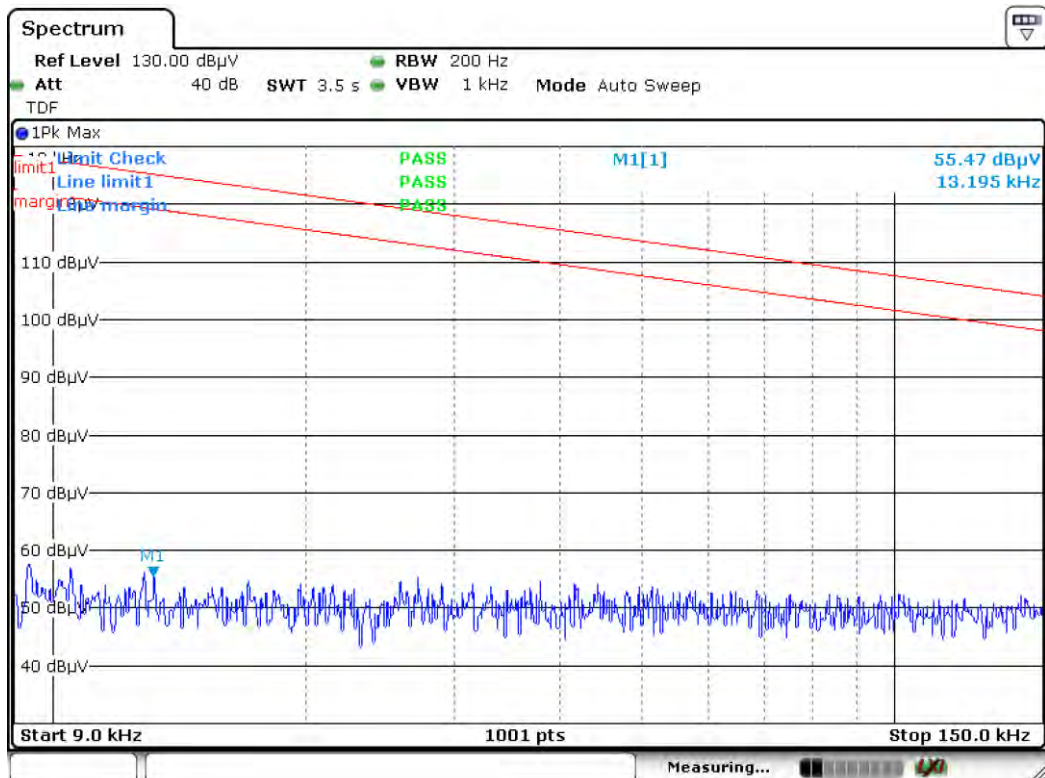


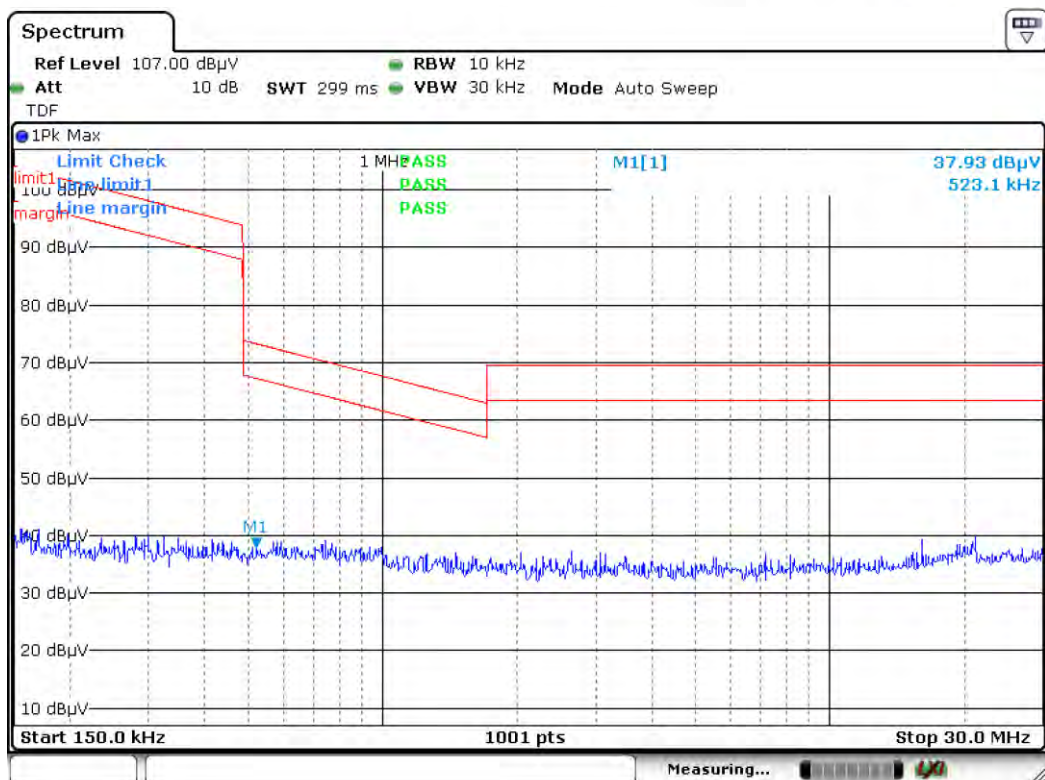
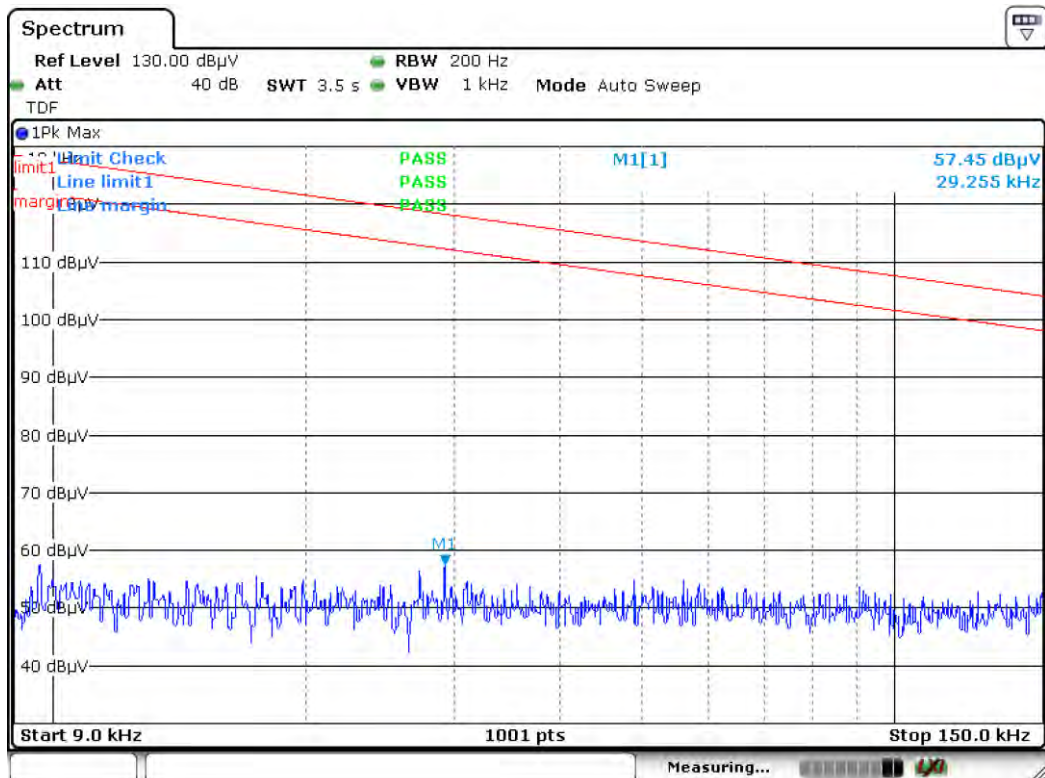
Test Plot of 5745MHz - Y


Test Plot of 5745MHz - Z


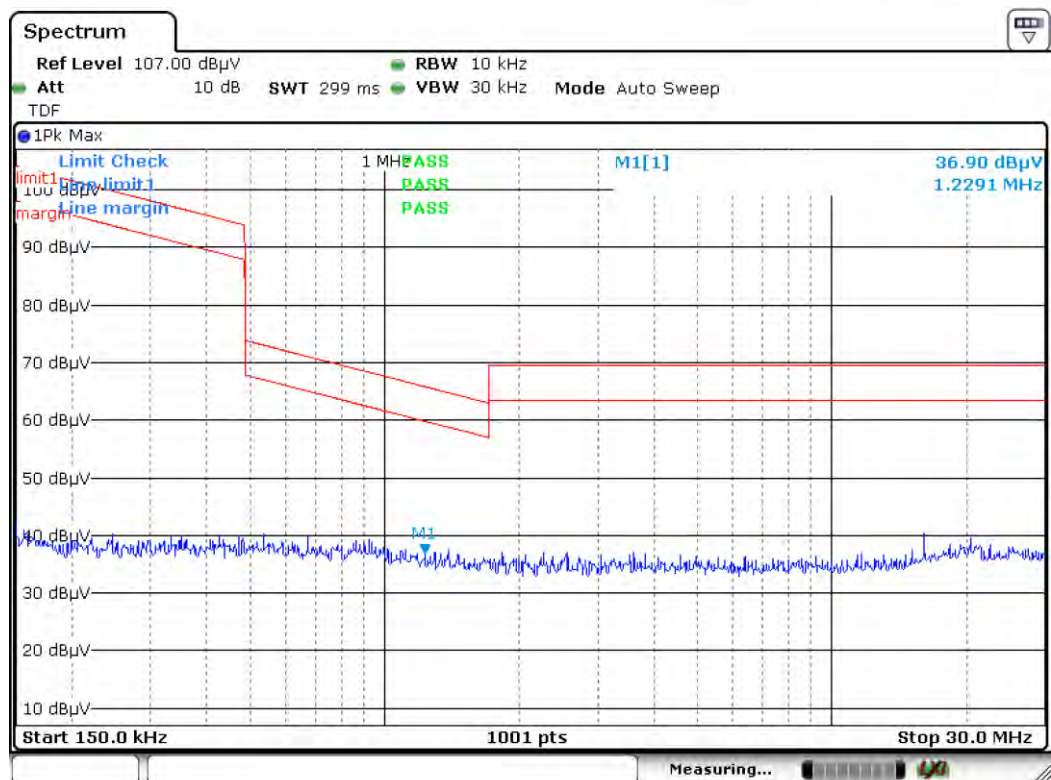
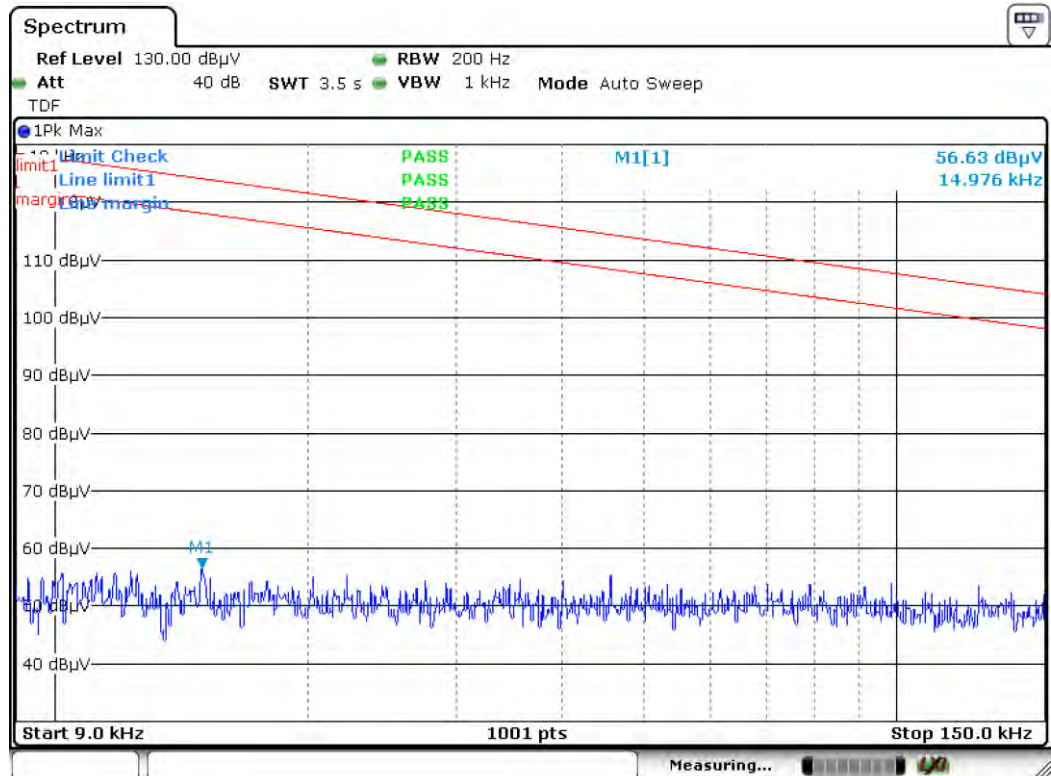
Test Plot of 5785MHz - X


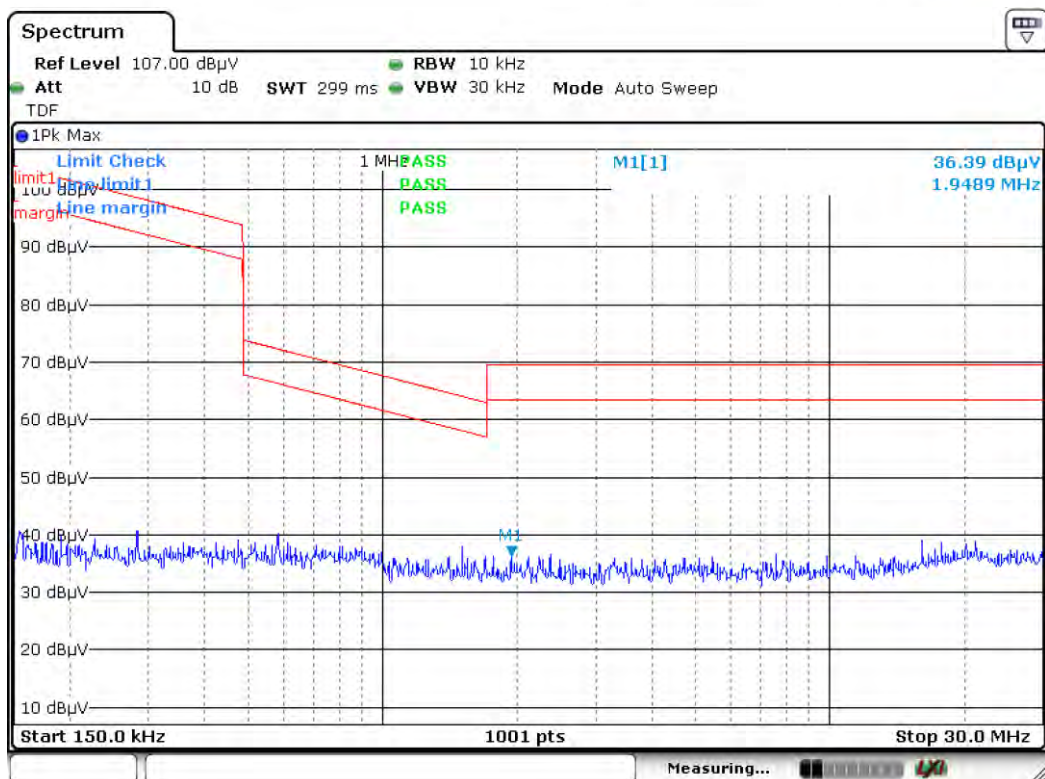
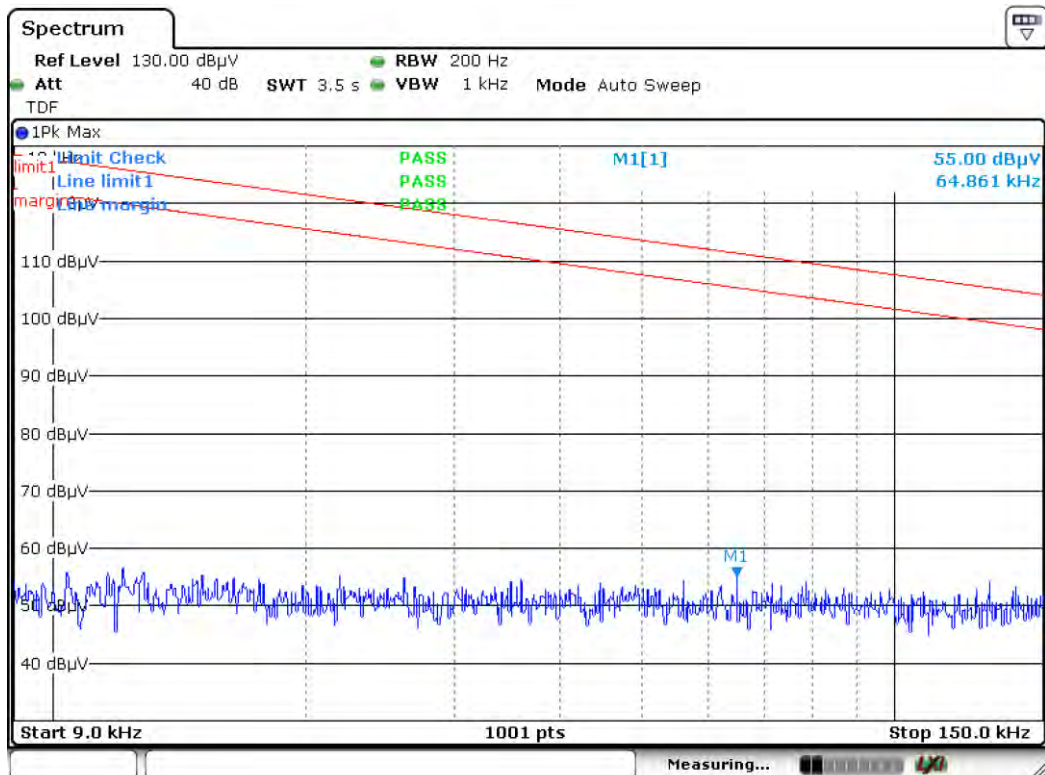
Test Plot of 5785MHz - Y


Test Plot of 5785MHz - Z


Test Plot of 5825MHz - X


Test Plot of 5825MHz - Y



Test Plot of 5825MHz - Z


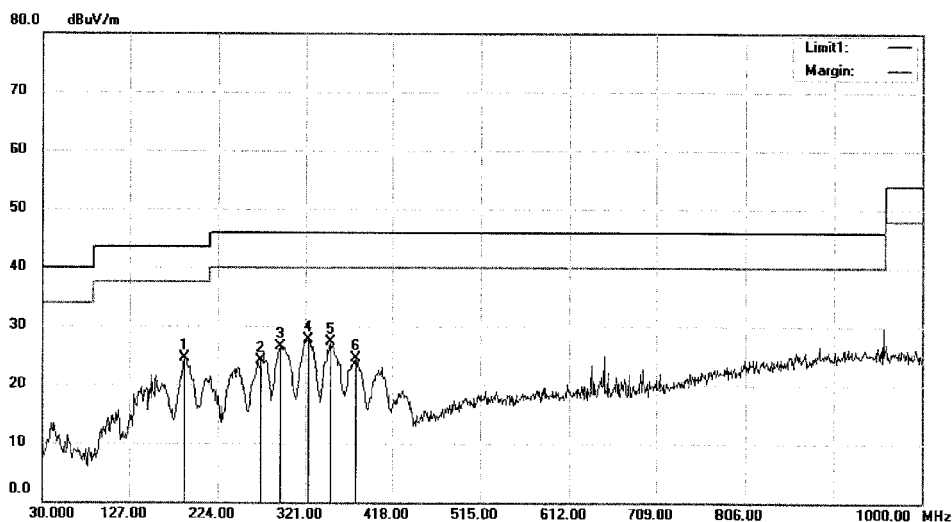
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Radiated Emission Measurement

File :TUV 9

Data :#43

Date: 15/09/19/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		187.1400	42.33	-17.77	24.56	43.50	-18.94	QP		
2		271.5300	36.84	-12.67	24.17	46.00	-21.83	QP		
3		292.8700	39.85	-13.39	26.46	46.00	-19.54	QP		
4	*	323.9100	41.05	-13.30	27.75	46.00	-18.25	QP		
5		348.1600	39.01	-11.77	27.24	46.00	-18.76	QP		
6		377.2600	34.58	-10.10	24.48	46.00	-21.52	QP		

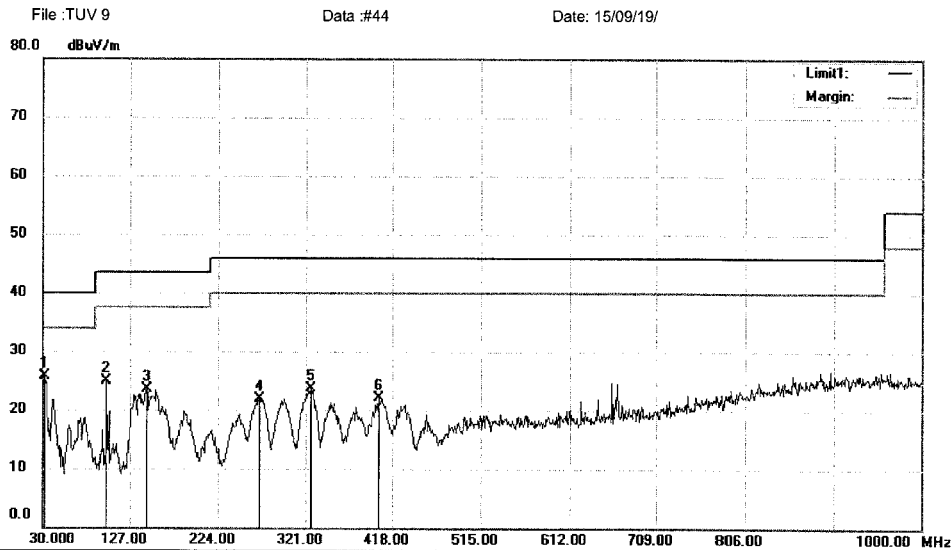
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#43

Page: 1

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	31.9400	41.49	-15.81	25.68	40.00	-14.32	QP		
2		100.8100	39.01	-14.02	24.99	43.50	-18.51	QP		
3		145.4300	41.50	-17.95	23.55	43.50	-19.95	QP		
4		269.5900	34.56	-12.69	21.87	46.00	-24.13	QP		
5		326.8200	36.83	-13.15	23.68	46.00	-22.32	QP		
6		402.4800	30.97	-8.93	22.04	46.00	-23.96	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File : TUV 9\Data : #44

Page: 1

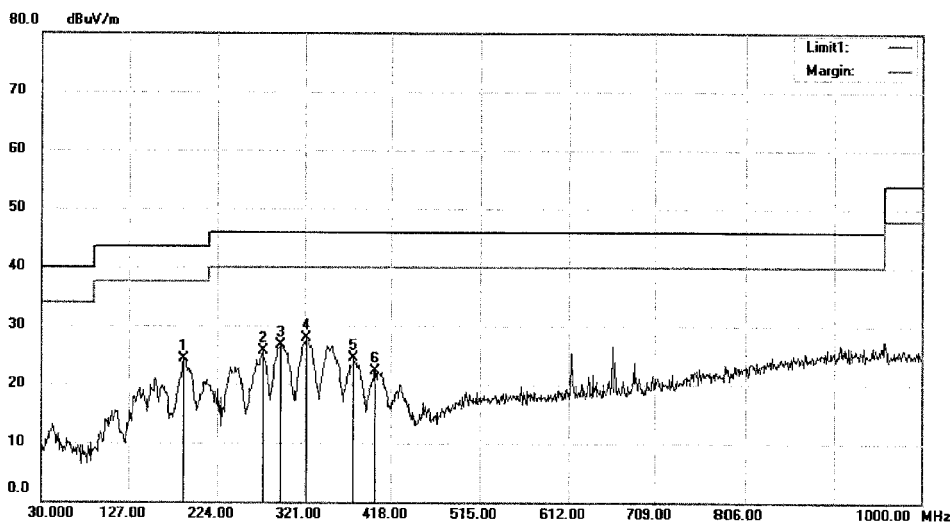
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Radiated Emission Measurement

File :TUV 9

Data :#45

Date: 15/09/19/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		187.1400	42.00	-17.77	24.23	43.50	-19.27	QP		
2		274.4400	38.36	-12.63	25.73	46.00	-20.27	QP		
3		294.8100	40.11	-13.50	26.61	46.00	-19.39	QP		
4	*	322.9400	41.30	-13.35	27.95	46.00	-18.05	QP		
5		376.2900	34.72	-10.13	24.59	46.00	-21.41	QP		
6		400.5400	31.27	-8.89	22.38	46.00	-23.62	QP		

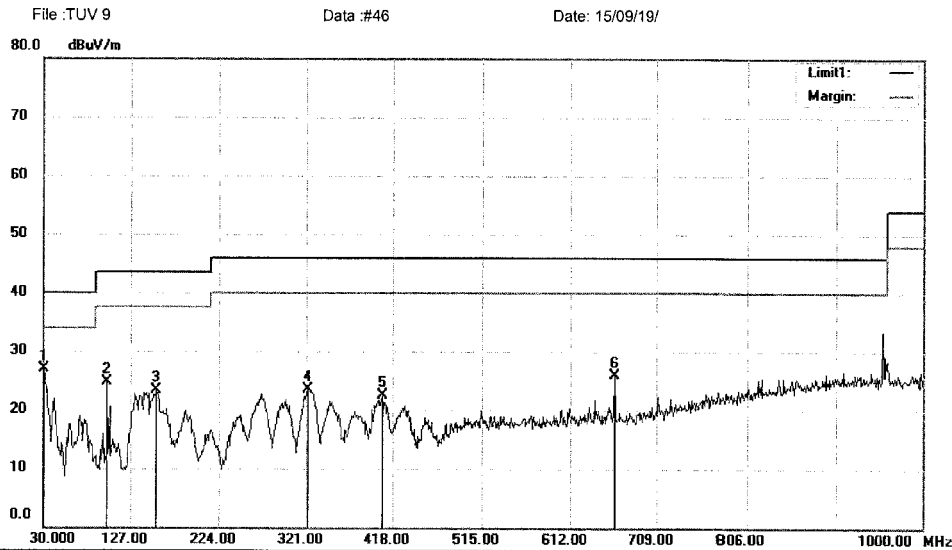
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#45

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5220
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.9700	43.05	-16.13	26.92	40.00	-13.08	QP		
2		100.8100	38.73	-14.02	24.71	43.50	-18.79	QP		
3		155.1300	41.81	-18.42	23.39	43.50	-20.11	QP		
4		322.9400	36.89	-13.35	23.54	46.00	-22.46	QP		
5		407.3300	31.63	-9.07	22.56	46.00	-23.44	QP		
6		661.4700	32.27	-6.36	25.91	46.00	-20.09	QP		

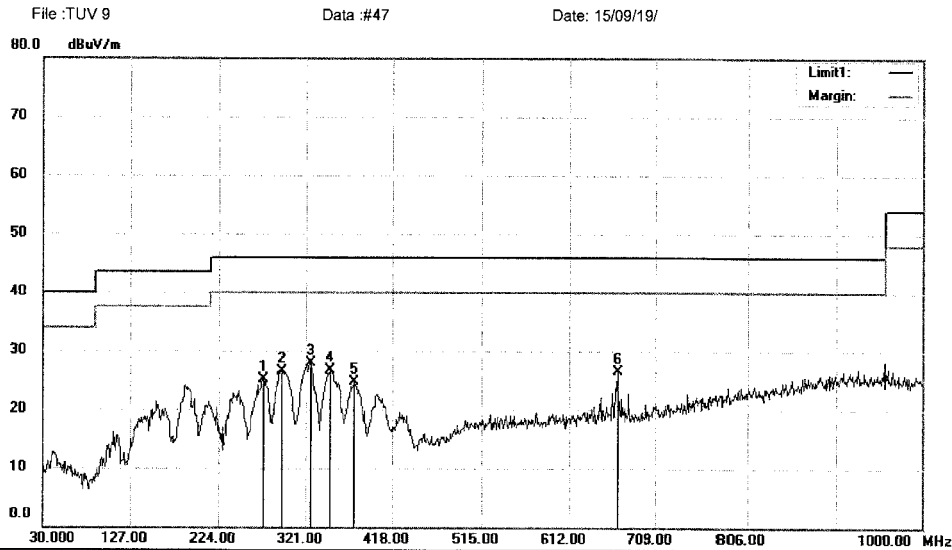
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#46

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		273.4700	37.82	-12.64	25.18	46.00	-20.82	QP		
2		293.8400	40.02	-13.45	26.57	46.00	-19.43	QP		
3	*	326.8200	40.98	-13.15	27.83	46.00	-18.17	QP		
4		349.1300	38.43	-11.68	26.75	46.00	-19.25	QP		
5		376.2900	34.90	-10.13	24.77	46.00	-21.23	QP		
6		666.3200	32.77	-6.33	26.44	46.00	-19.56	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File : TUV 9\Data : #47

Page: 1

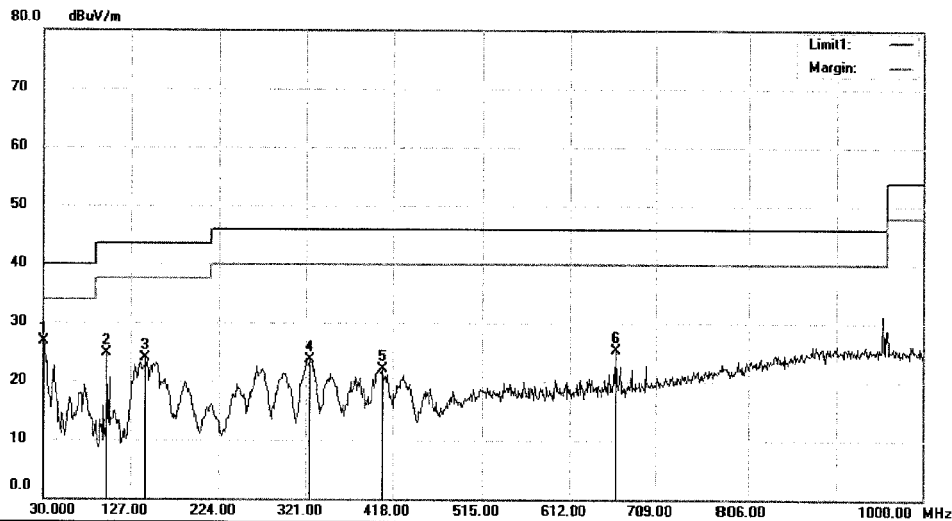
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Radiated Emission Measurement

File :TUV 9

Data :#48

Date: 15/09/19/



Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.9700	42.92	-16.13	26.79	40.00	-13.21	QP		
2		100.8100	38.63	-14.02	24.61	43.50	-18.89	QP		
3		143.4900	41.75	-17.88	23.87	43.50	-19.63	QP		
4		324.8800	36.88	-13.25	23.63	46.00	-22.37	QP		
5		406.3600	31.19	-9.04	22.15	46.00	-23.85	QP		
6		664.3800	31.72	-6.34	25.38	46.00	-20.62	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#48

Page: 1

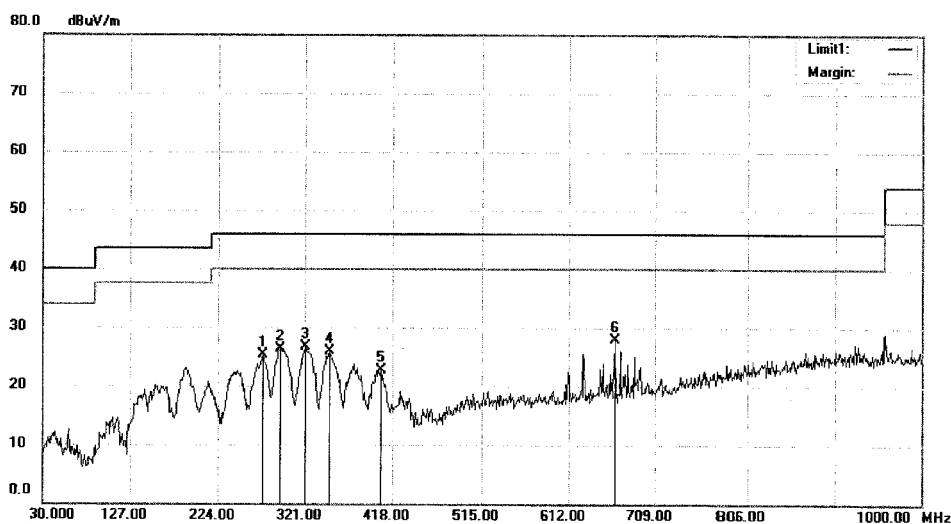
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Radiated Emission Measurement

File :TUV 9

Data :#49

Date: 15/09/19/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		273.4700	38.01	-12.64	25.37	46.00	-20.63	QP		
2		292.8700	39.75	-13.39	26.36	46.00	-19.64	QP		
3		321.9700	40.08	-13.40	26.68	46.00	-19.32	QP		
4		348.1600	37.65	-11.77	25.88	46.00	-20.12	QP		
5		405.3900	31.81	-9.02	22.79	46.00	-23.21	QP		
6	*	664.3800	34.23	-6.34	27.89	46.00	-18.11	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

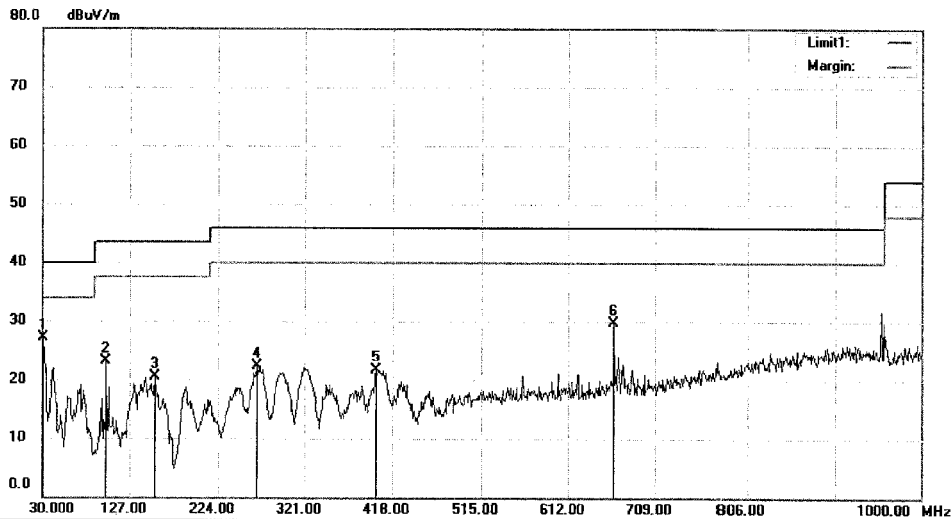
File :TUV 9\Data :#49

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Radiated Emission Measurement

File :TUV 9 Data :#50 Date: 15/09/19/



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	30.9700	43.28	-16.13	27.15	40.00	-12.85	QP		
2		100.8100	37.20	-14.02	23.18	43.50	-20.32	QP		
3		154.1600	38.90	-18.36	20.54	43.50	-22.96	QP		
4		267.6500	34.96	-12.71	22.25	46.00	-23.75	QP		
5		400.5400	30.50	-8.89	21.61	46.00	-24.39	QP		
6		663.4100	36.03	-6.35	29.68	46.00	-16.32	QP		

*:Maximum data x:Over limit l:over margin

Operator: KK

File :TUV 9\Data :#50

Page: 1

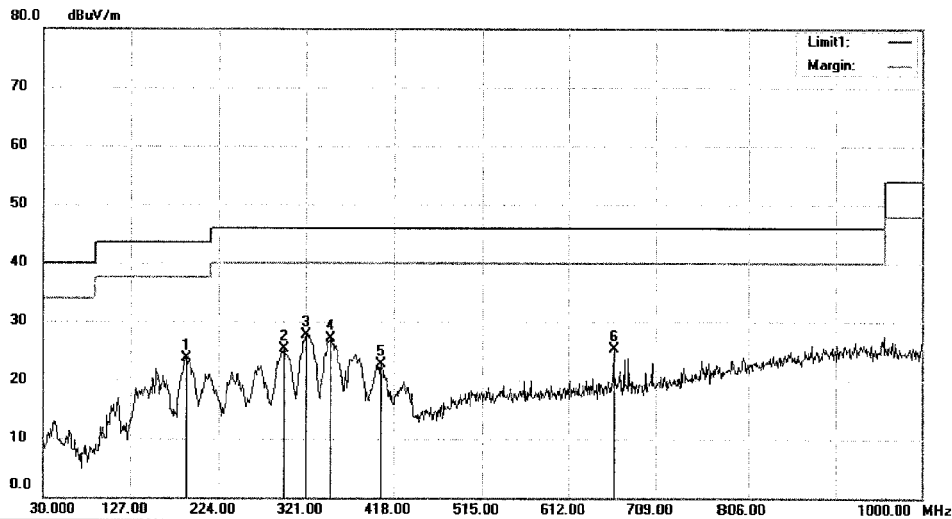
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Radiated Emission Measurement

File :TUV 9

Data :#51

Date: 15/09/19/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		188.1100	41.29	-17.59	23.70	43.50	-19.80	QP		
2		296.7500	38.87	-13.63	25.24	46.00	-20.76	QP		
3	*	321.9700	41.19	-13.40	27.79	46.00	-18.21	QP		
4		349.1300	38.81	-11.68	27.13	46.00	-18.87	QP		
5		404.4200	31.62	-8.99	22.63	46.00	-23.37	QP		
6		662.4400	31.71	-6.36	25.35	46.00	-20.65	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

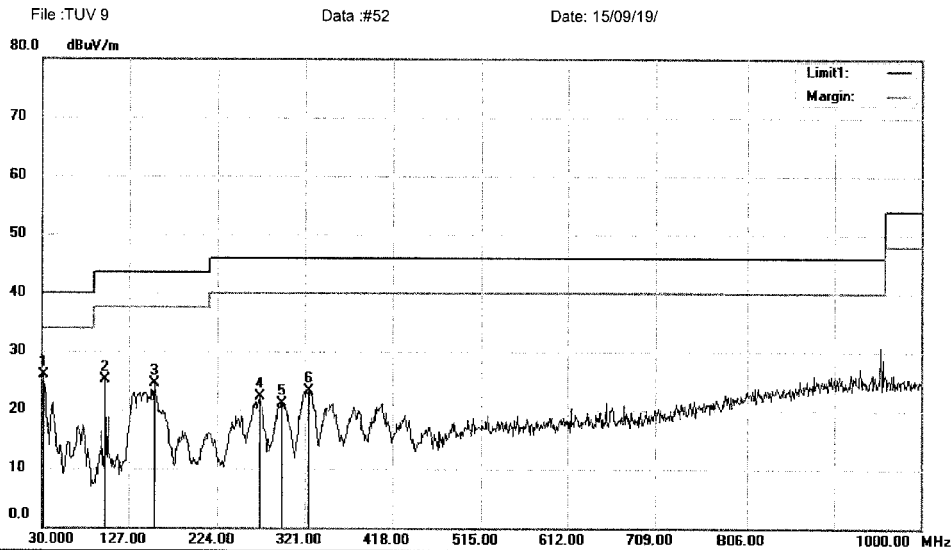
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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	31.9400	41.73	-15.81	25.92	40.00	-14.08	QP		
2		100.8100	39.20	-14.02	25.18	43.50	-18.32	QP		
3		154.1600	42.82	-18.36	24.46	43.50	-19.04	QP		
4		270.5600	34.91	-12.68	22.23	46.00	-23.77	QP		
5		295.7800	34.77	-13.57	21.20	46.00	-24.80	QP		
6		324.8800	36.60	-13.25	23.35	46.00	-22.65	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

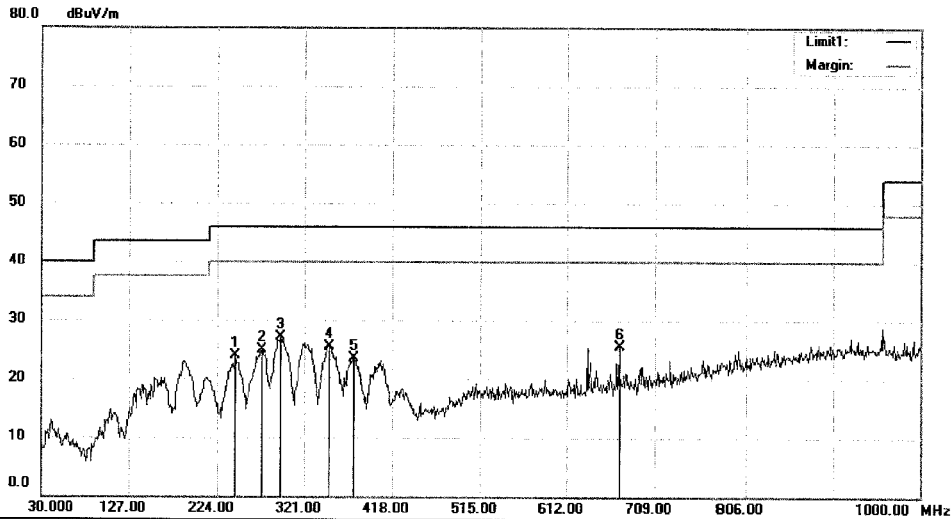
File :TUV 9\Data :#52

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Radiated Emission Measurement

File :TUV 9 Data :#53 Date: 15/09/19/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5825

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		244.3700	37.45	-13.61	23.84	46.00	-22.16	QP		
2		273.4700	37.63	-12.64	24.99	46.00	-21.01	QP		
3	*	294.8100	40.69	-13.50	27.19	46.00	-18.81	QP		
4		348.1600	37.36	-11.77	25.59	46.00	-20.41	QP		
5		375.3200	33.63	-10.17	23.46	46.00	-22.54	QP		
6		670.2000	31.69	-6.28	25.41	46.00	-20.59	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

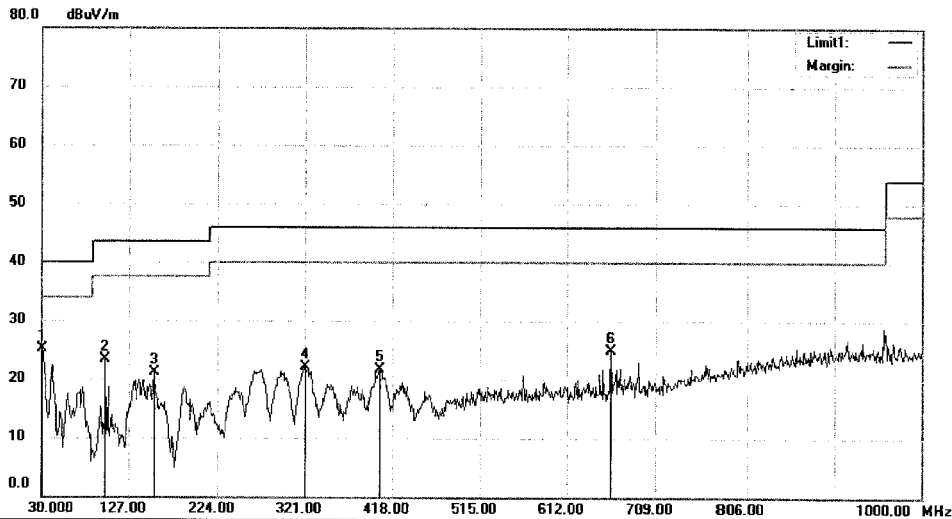
File :TUV 9\Data :#53

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Radiated Emission Measurement

File : TUV 9 Data : #54 Date : 15/09/19/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5825
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.9700	41.15	-16.13	25.02	40.00	-14.98	QP		
2		100.8100	37.35	-14.02	23.33	43.50	-20.17	QP		
3		154.1600	39.43	-18.36	21.07	43.50	-22.43	QP		
4		321.9700	35.50	-13.40	22.10	46.00	-23.90	QP		
5		404.4200	30.68	-8.99	21.69	46.00	-24.31	QP		
6		660.5000	31.27	-6.38	24.89	46.00	-21.11	QP		

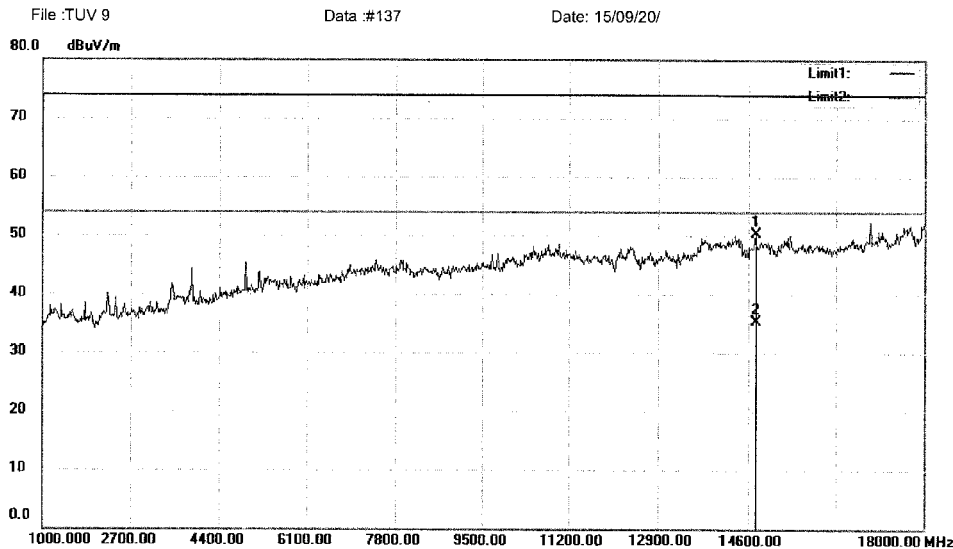
*:Maximum data x:Over limit !:over margin

Operator: KK

File : TUV 9\Data : #54

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		14736.00	56.74	-6.46	50.28	74.00	-23.72	peak		
2	*	14736.00	41.72	-6.46	35.26	54.00	-18.74	AVG		

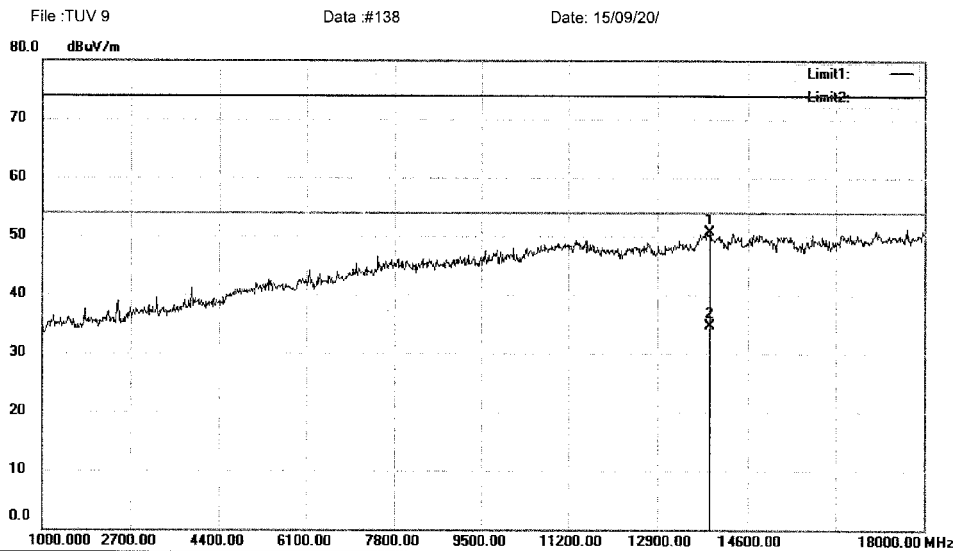
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#137

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		13903.00	56.54	-5.76	50.78	74.00	-23.22	peak		
2	*	13903.00	40.43	-5.76	34.67	54.00	-19.33	AVG		

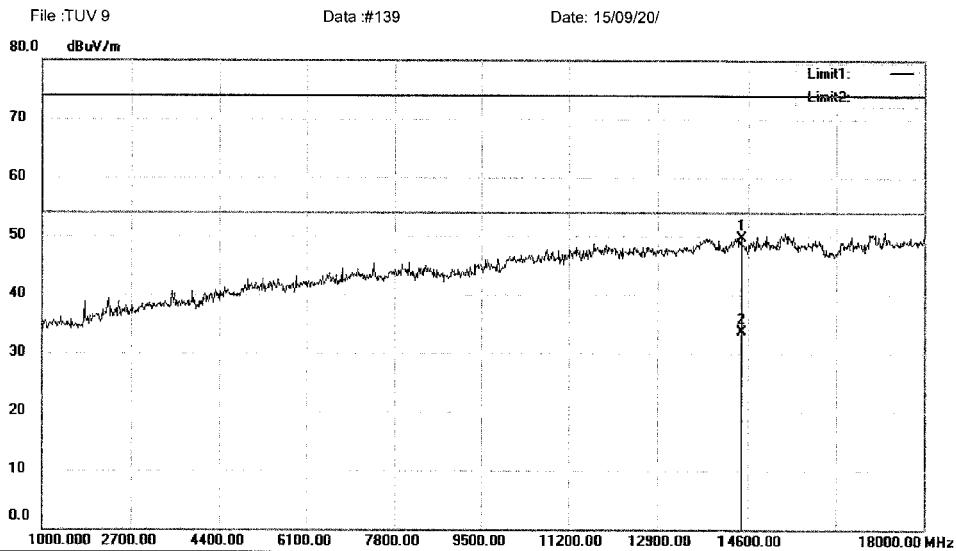
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#138

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		14464.00	55.81	-6.02	49.79	74.00	-24.21	peak		
2	*	14464.00	39.63	-6.02	33.61	54.00	-20.39	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#139

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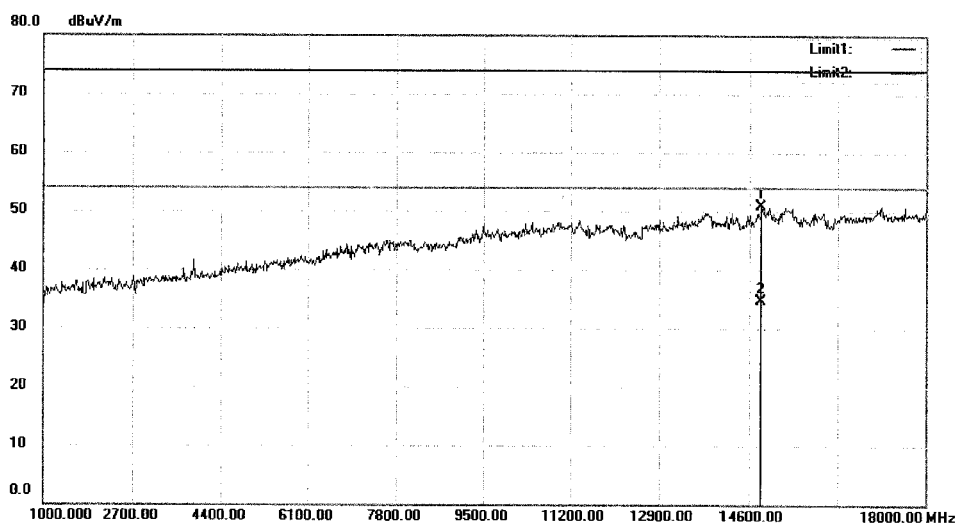
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Radiated Emission Measurement

File :TUV 9

Data :#140

Date: 15/09/20/



Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		14821.00	57.41	-6.59	50.82	74.00	-23.18	peak		
2	*	14821.00	41.31	-6.59	34.72	54.00	-19.28	AVG		

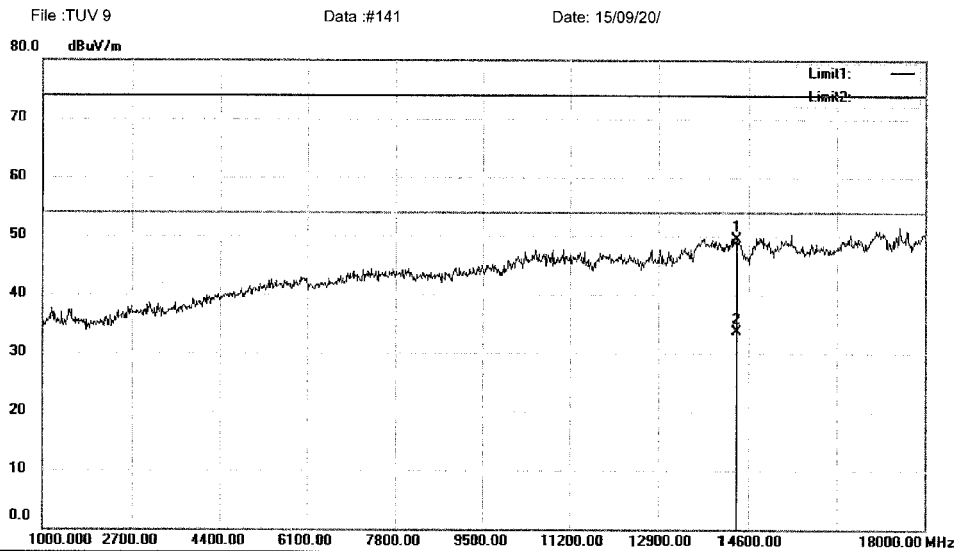
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#140

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Radiated Emission Measurement


Site 3m Chamber #3
 Limit: (RE)FCC PART 15.407
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5240
 Note:

Polarization: **Horizontal** Temperature: 24 C
 Power: AC 120V/60Hz Humidity: 53 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		14362.00	55.45	-5.86	49.59	74.00	-24.41	peak		
2	*	14362.00	39.60	-5.86	33.74	54.00	-20.26	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

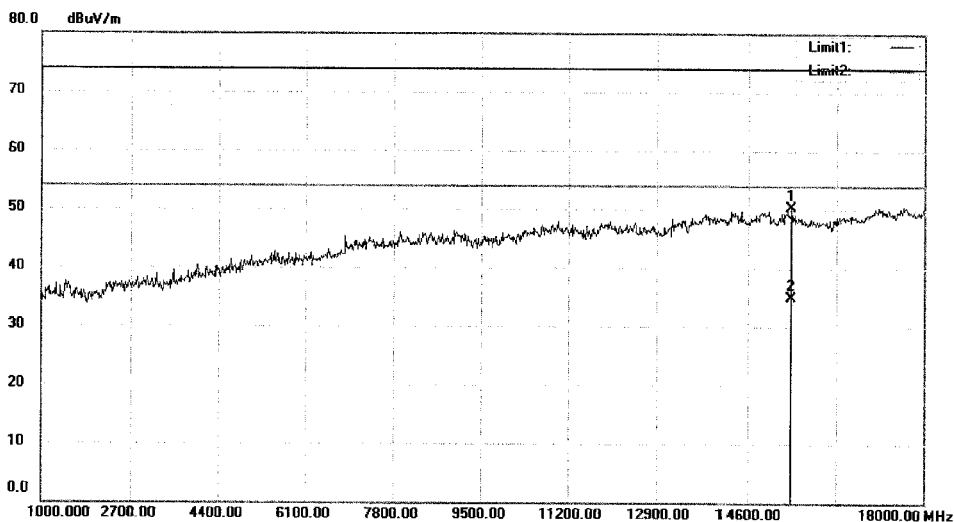
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Radiated Emission Measurement

File :TUV 9 Data :#142 Date: 15/09/20/



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		15433.00	57.54	-7.25	50.29	74.00	-23.71	peak		
2	*	15433.00	42.08	-7.25	34.83	54.00	-19.17	AVG		

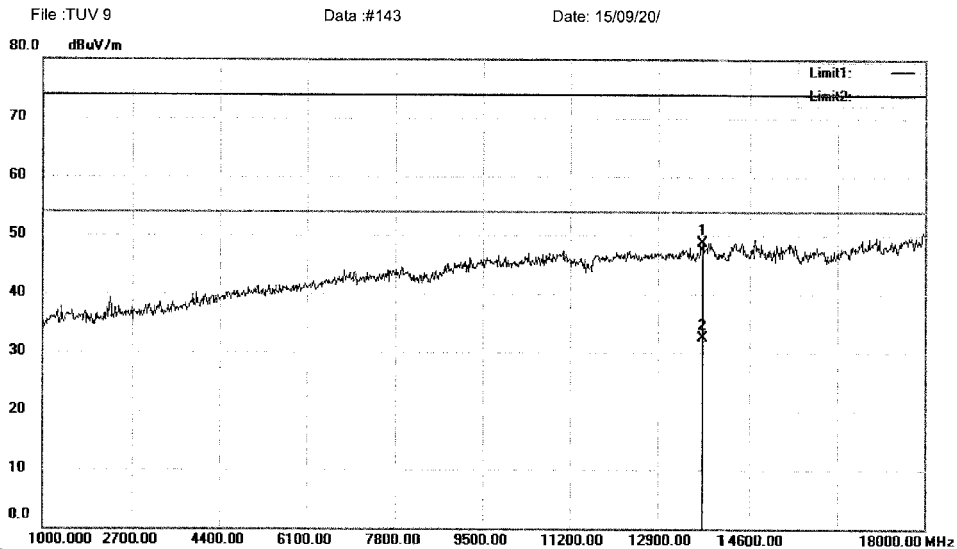
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#142

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		13767.00	55.21	-6.42	48.79	74.00	-25.21	peak		
2	*	13767.00	38.93	-6.42	32.51	54.00	-21.49	AVG		

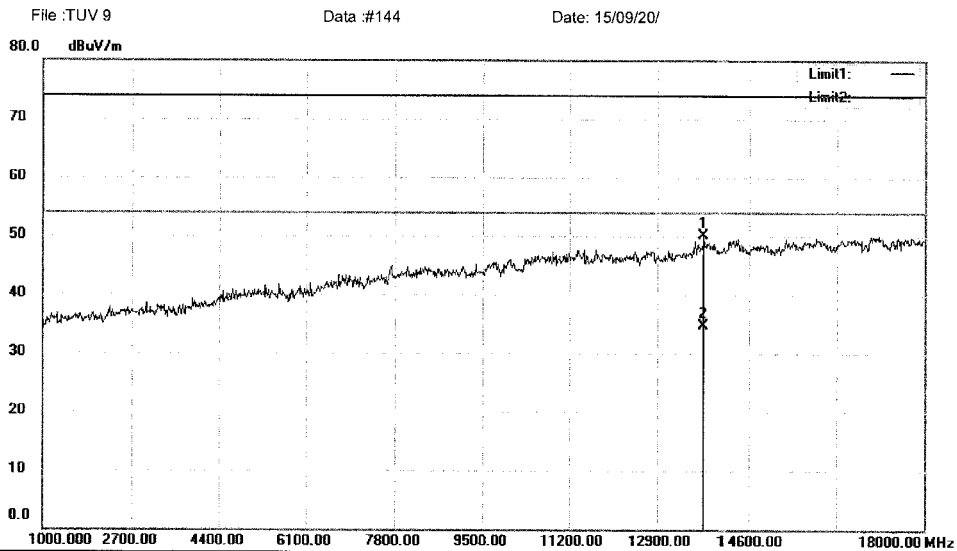
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#143

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		13801.00	56.31	-6.26	50.05	74.00	-23.95	peak		
2	*	13801.00	40.88	-6.26	34.62	54.00	-19.38	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

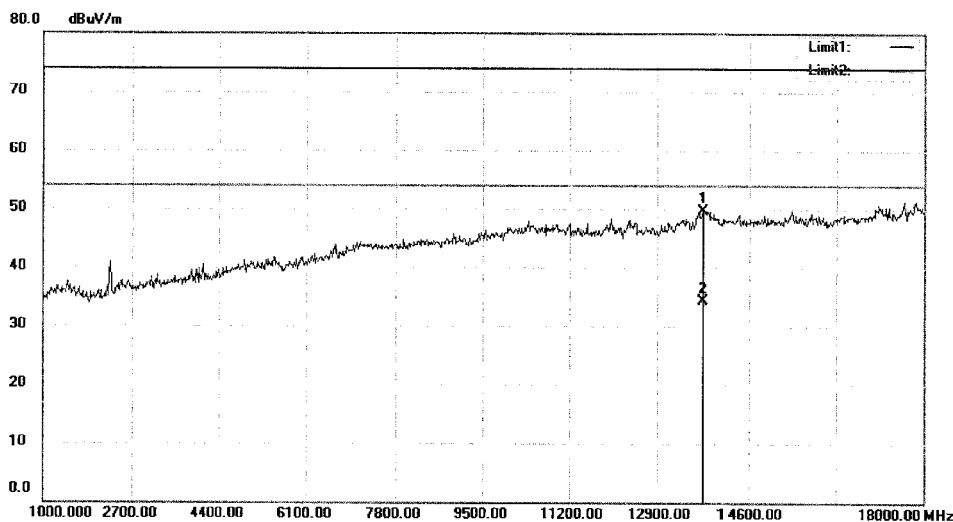
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Radiated Emission Measurement

File :TUV 9 Data :#145 Date: 15/09/20/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		13784.00	56.10	-6.34	49.76	74.00	-24.24	peak		
2	*	13784.00	40.57	-6.34	34.23	54.00	-19.77	AVG		

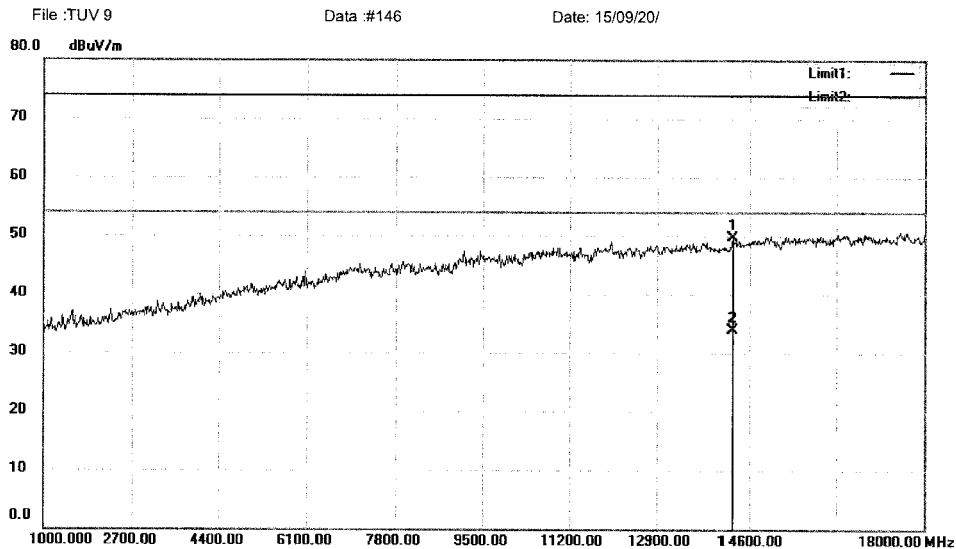
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#145

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Radiated Emission Measurement


Site 3m Chamber #3
 Limit: (RE)FCC PART 15.407
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5785
 Note:

Polarization: **Vertical** Temperature: 24 C
 Power: AC 120V/60Hz Humidity: 53 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		14260.00	55.39	-5.71	49.68	74.00	-24.32	peak		
2	*	14260.00	39.53	-5.71	33.82	54.00	-20.18	AVG		

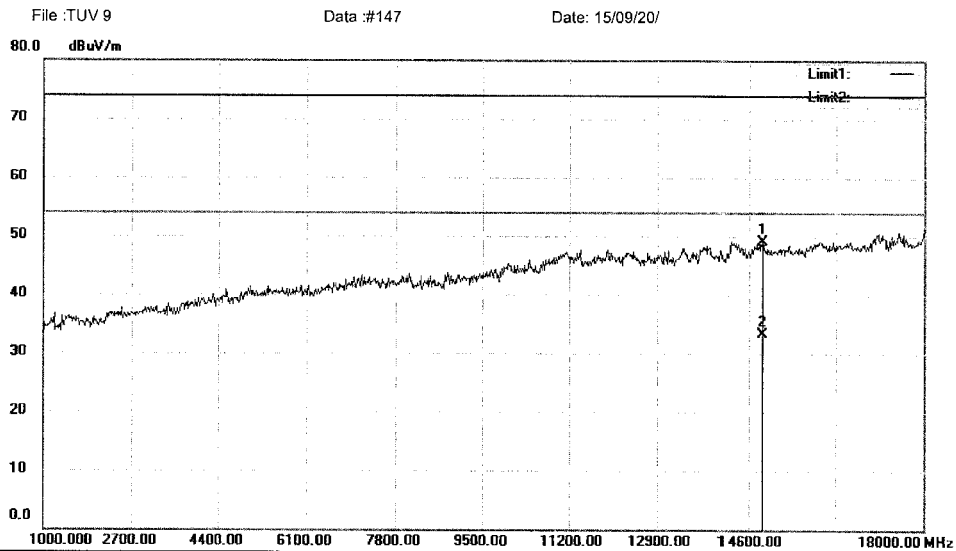
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Operator: KK

File :TUV 9\Data :#146

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		14855.00	55.75	-6.63	49.12	74.00	-24.88	peak		
2	*	14855.00	39.97	-6.63	33.34	54.00	-20.66	AVG		

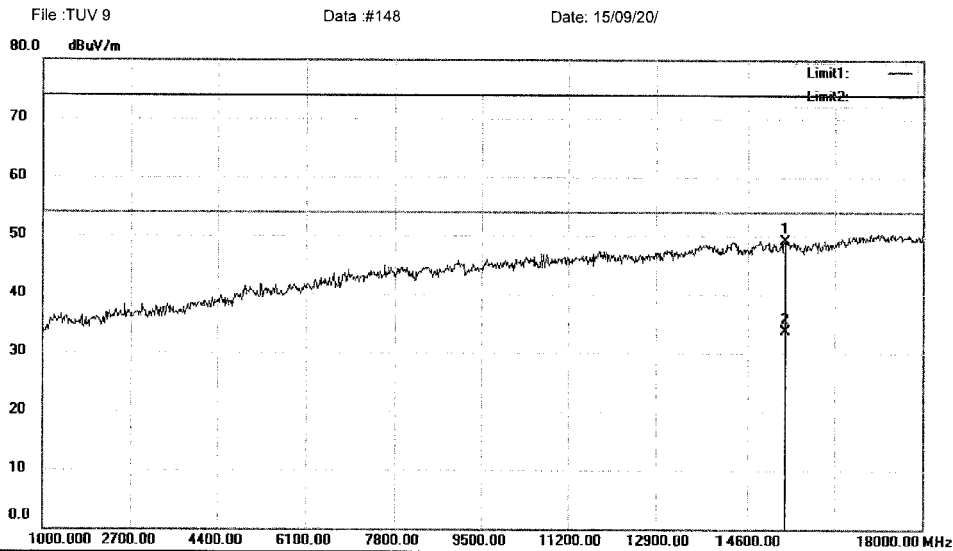
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Operator: KK

File :TUV 9\Data :#147

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		15331.00	56.23	-7.16	49.07	74.00	-24.93	peak		
2	*	15331.00	40.91	-7.16	33.75	54.00	-20.25	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#148

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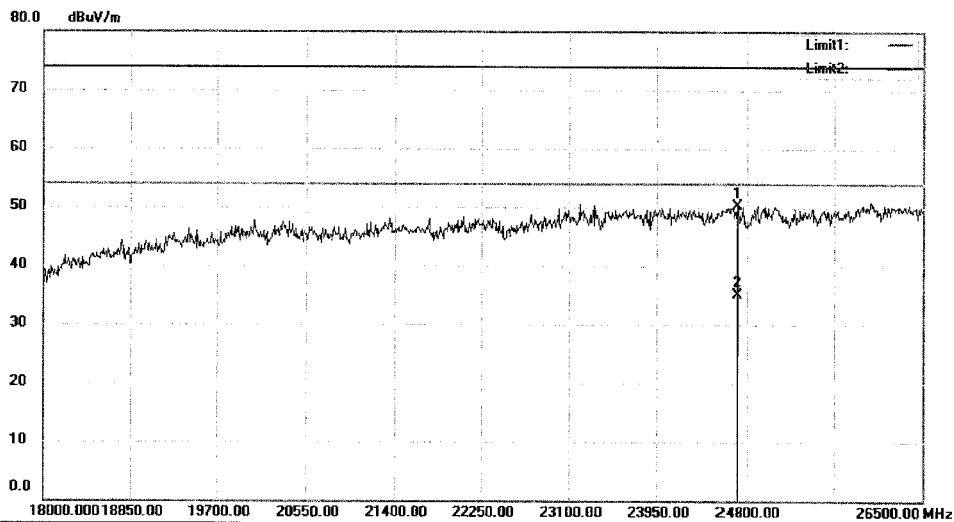
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Radiated Emission Measurement

File :TUV 9

Data :#231

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		24698.00	87.41	-37.05	50.36	74.00	-23.64	peak		
2	*	24698.00	72.20	-37.05	35.15	54.00	-18.85	AVG		

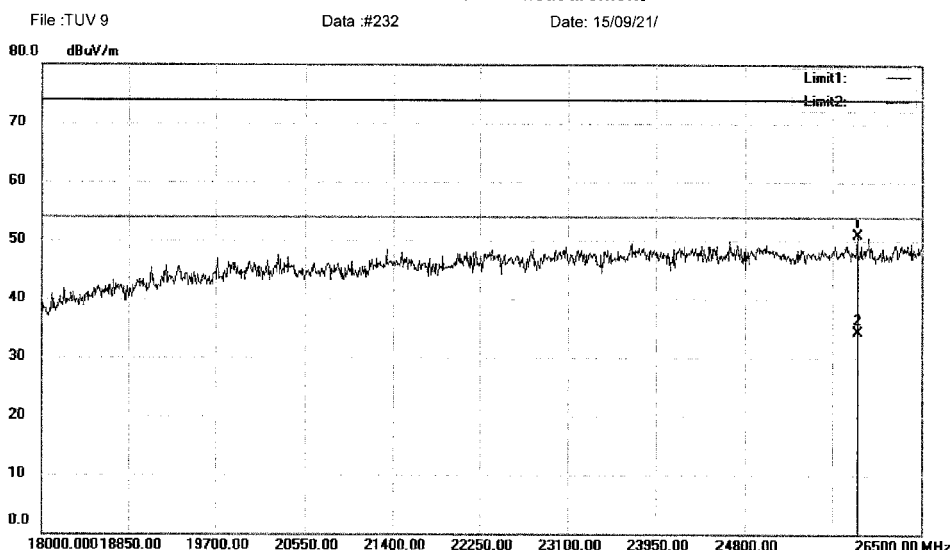
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Operator: KK

File :TUV 9\Data :#231

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		25888.00	86.92	-35.93	50.99	74.00	-23.01	peak		
2	*	25888.00	70.18	-35.93	34.25	54.00	-19.75	AVG		

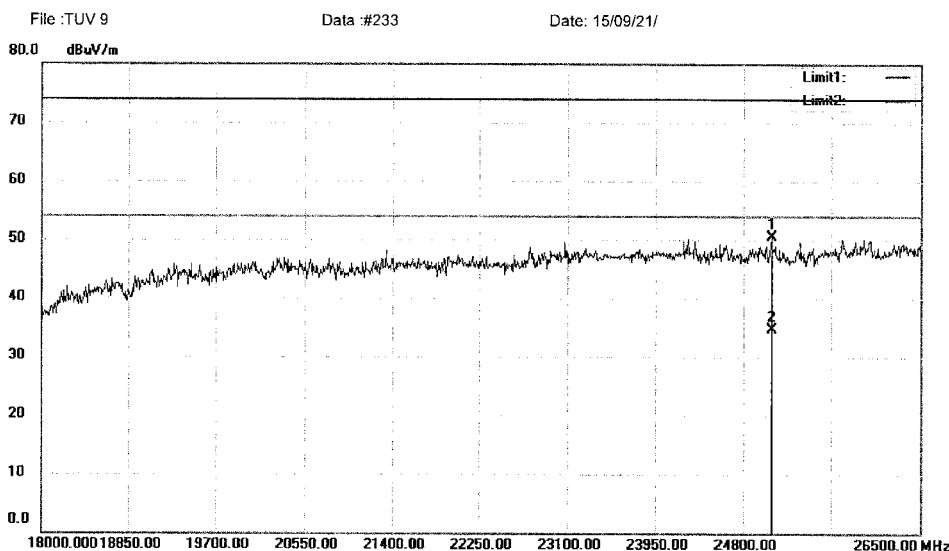
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Operator: KK

File: TUV 9Data: #232

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5220

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		25072.00	87.46	-36.92	50.54	74.00	-23.46	peak		
2	*	25072.00	71.64	-36.92	34.72	54.00	-19.28	AVG		

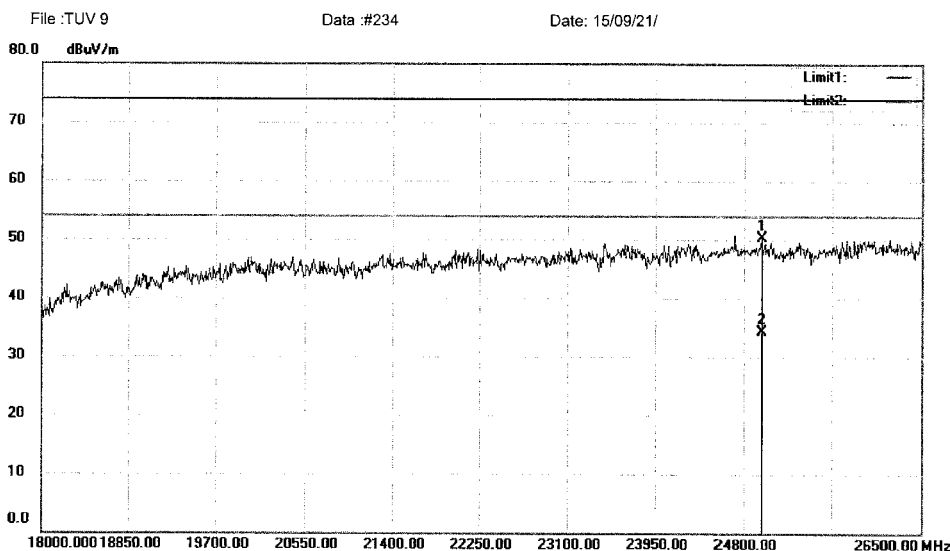
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Operator: KK

File :TUV 9\Data :#233

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5220

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		24970.00	87.37	-37.01	50.36	74.00	-23.64	peak		
2	*	24970.00	71.38	-37.01	34.37	54.00	-19.63	AVG		

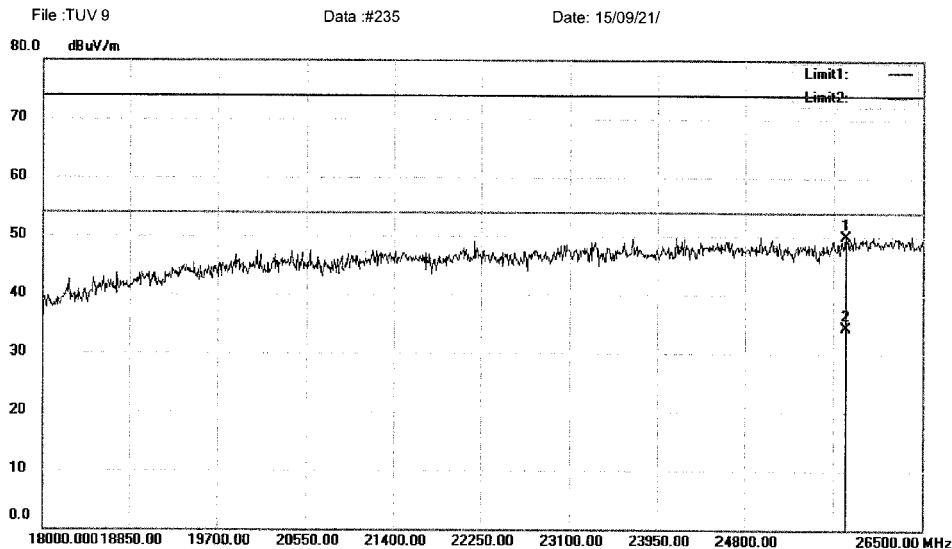
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Operator: KK

File :TUV 9\Data :#234

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		25769.00	86.01	-36.07	49.94	74.00	-24.06	peak		
2	*	25769.00	70.31	-36.07	34.24	54.00	-19.76	AVG		

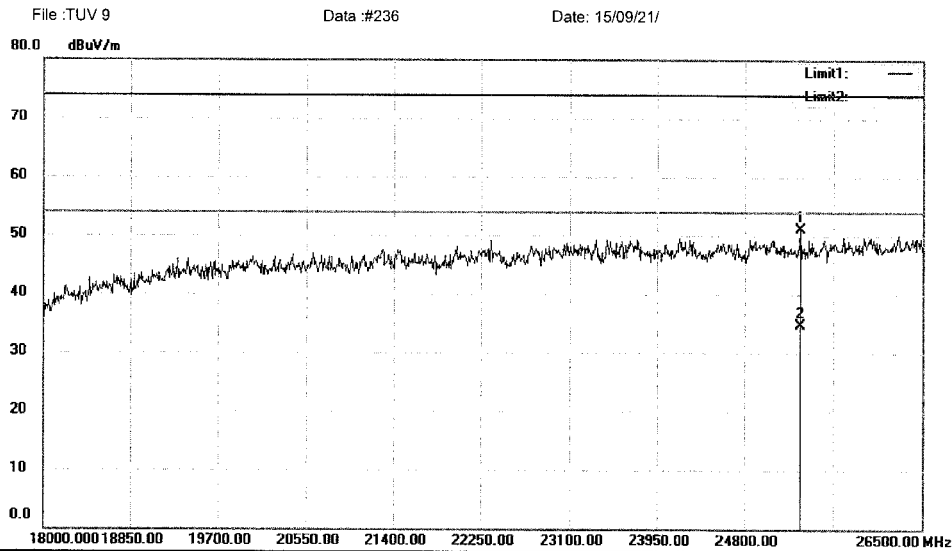
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Operator: KK

File: TUV 9\Data: #235

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5240
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		25335.50	87.63	-36.60	51.03	74.00	-22.97	peak		
2	*	25335.50	71.34	-36.60	34.74	54.00	-19.26	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#236

Page: 1

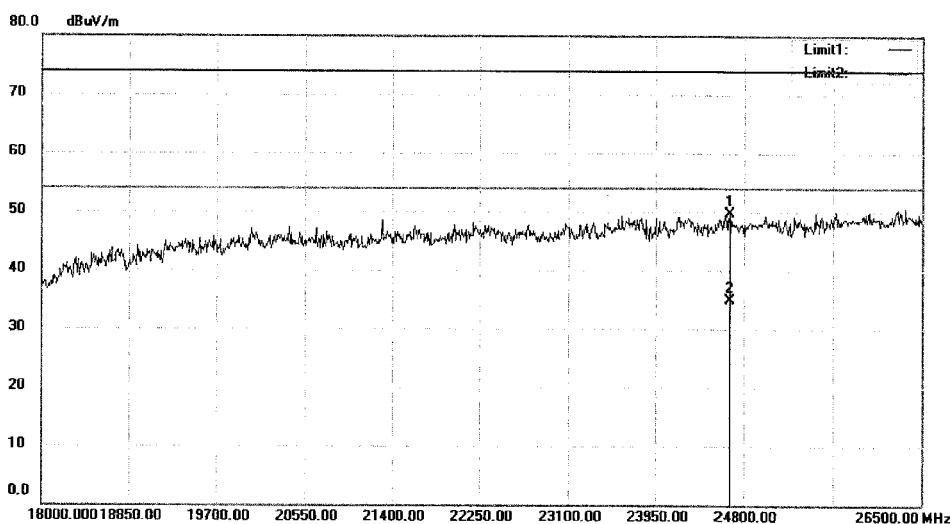
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Radiated Emission Measurement

File :TUV 9

Data #237

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		24655.50	86.75	-37.05	49.70	74.00	-24.30	peak		
2	*	24655.50	71.90	-37.05	34.85	54.00	-19.15	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

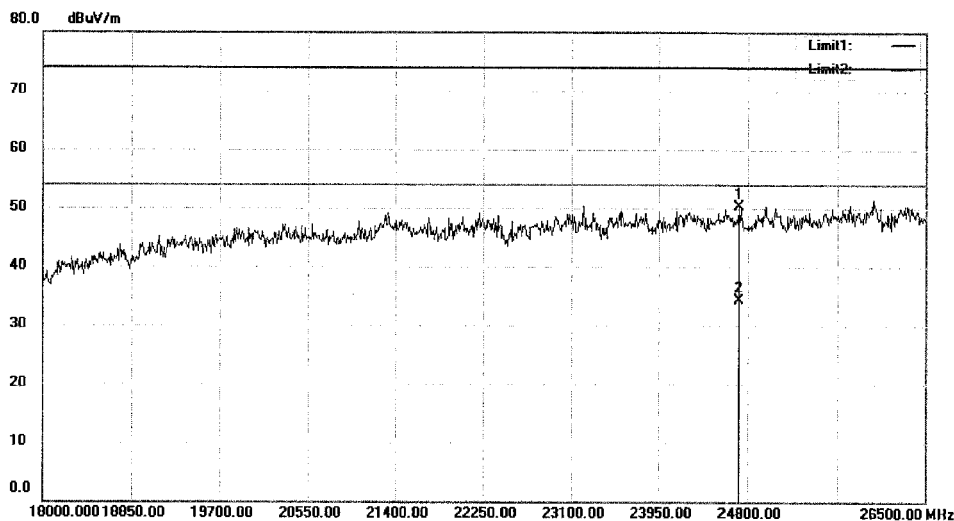
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Radiated Emission Measurement

File :TUV 9 Data :#238 Date: 15/09/21/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5745
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		24715.00	87.42	-37.04	50.38	74.00	-23.62	peak		
2	*	24715.00	71.30	-37.04	34.26	54.00	-19.74	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#238

Page: 1

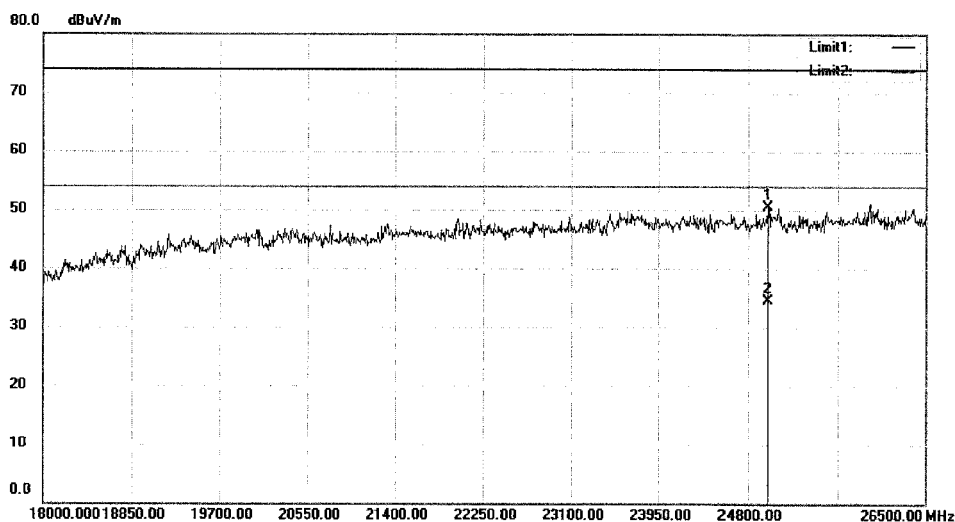
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Radiated Emission Measurement

File :TUV 9

Data :#239

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		24987.00	87.58	-37.01	50.57	74.00	-23.43	peak		
2	*	24987.00	71.57	-37.01	34.56	54.00	-19.44	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

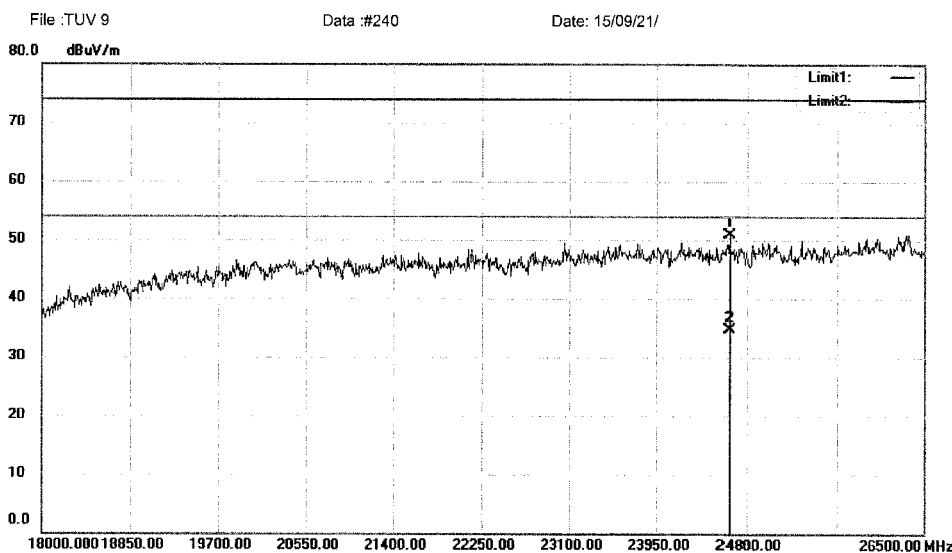
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Page: 1

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Radiated Emission Measurement



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
EUT: MID
M/N: MID1102-MA; DL1168A
Mode:11A 5785
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		24630.00	87.98	-37.05	50.93	74.00	-23.07	peak		
2	*	24630.00	71.66	-37.05	34.61	54.00	-19.39	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

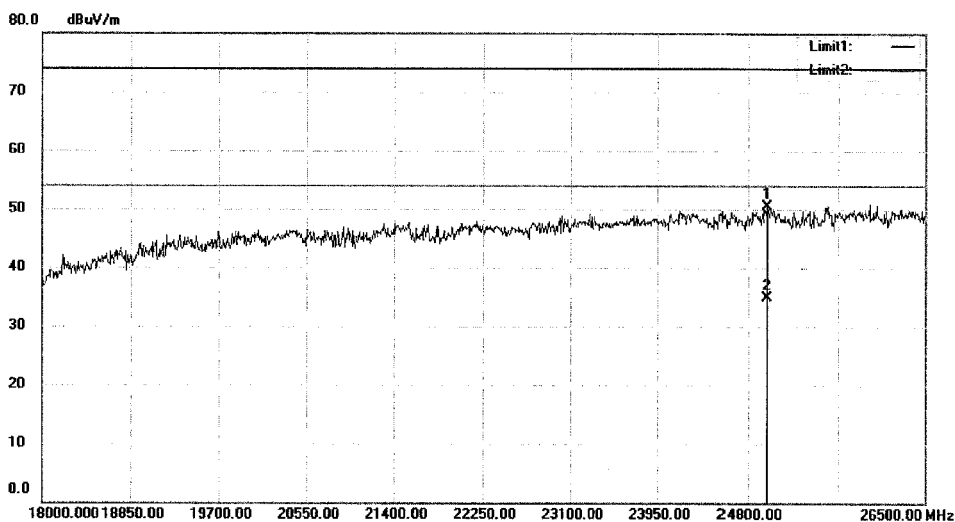
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Radiated Emission Measurement

File :TUV 9 Data :#241 Date: 15/09/21/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5825
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		24970.00	87.44	-37.01	50.43	74.00	-23.57	peak		
2	*	24970.00	71.83	-37.01	34.82	54.00	-19.18	AVG		

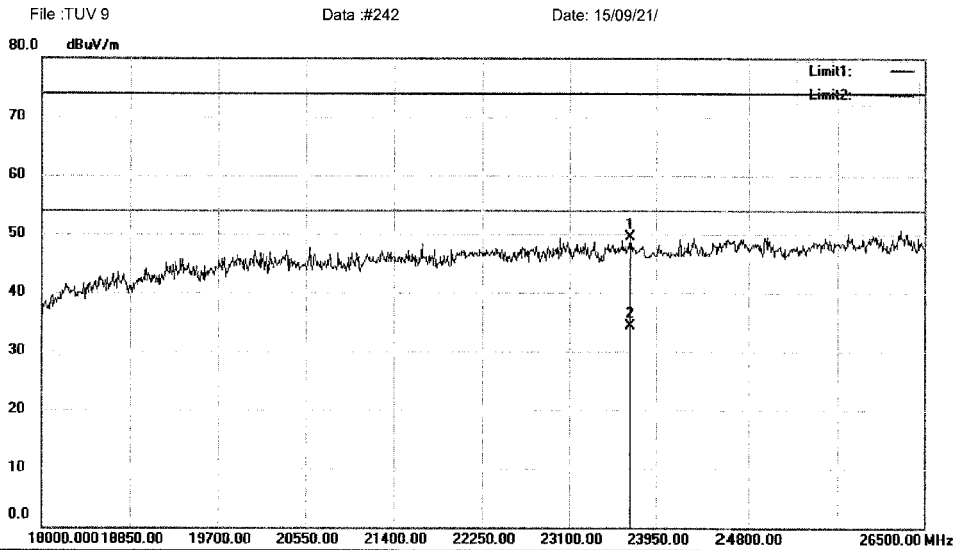
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#241

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5825
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		23695.00	86.94	-37.45	49.49	74.00	-24.51	peak		
2	*	23695.00	71.77	-37.45	34.32	54.00	-19.68	AVG		

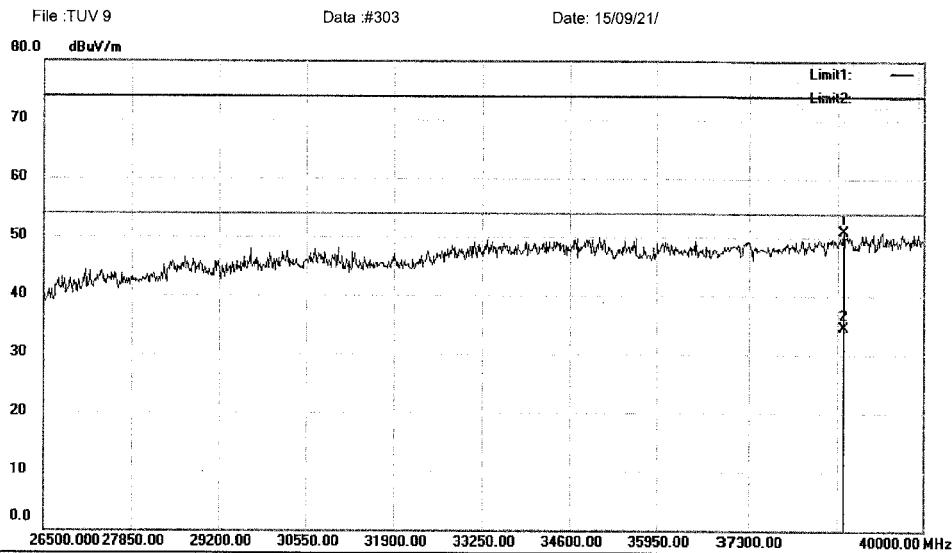
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#242

Page: 1

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		38744.50	85.53	-34.55	50.98	74.00	-23.02	peak		
2	*	38744.50	69.12	-34.55	34.57	54.00	-19.43	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

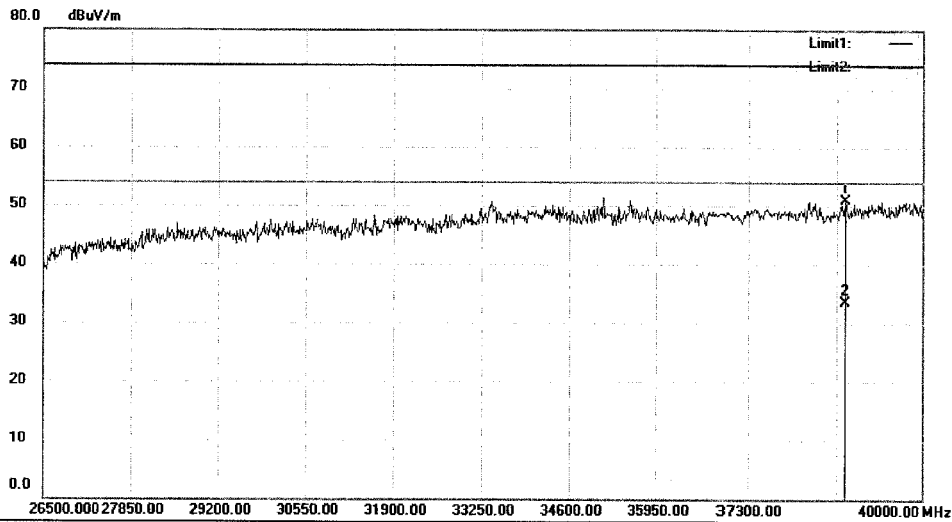
File :TUV 9\Data :#303

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Radiated Emission Measurement

File :TUV 9 Data :#304 Date: 15/09/21/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		38785.00	85.36	-34.46	50.90	74.00	-23.10	peak		
2	*	38785.00	67.87	-34.46	33.41	54.00	-20.59	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

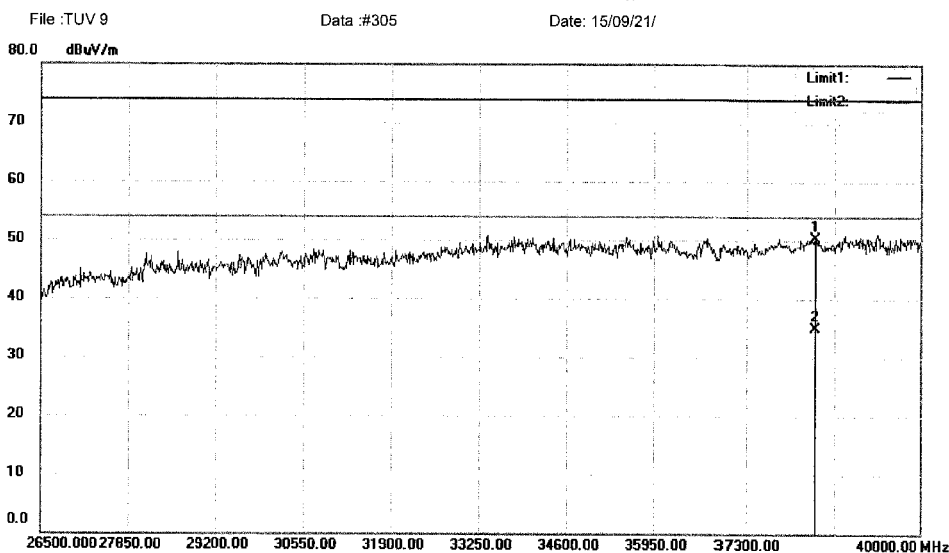
File :TUV 9\Data :#304

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Radiated Emission Measurement



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
EUT: MID
M/N: MID1102-MA; DL1168A
Mode:11A 5220
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		38353.00	85.69	-35.45	50.24	74.00	-23.76	peak		
2	*	38353.00	70.31	-35.45	34.86	54.00	-19.14	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

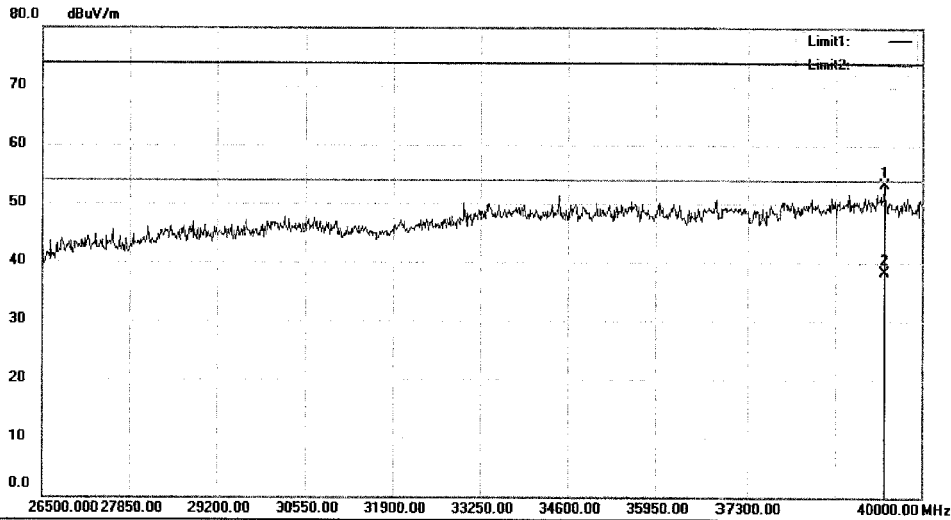
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Radiated Emission Measurement

File :TUV 9 Data :#306 Date: 15/09/21/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5220
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		39406.00	86.24	-33.03	53.21	74.00	-20.79	peak		
2	*	39406.00	71.38	-33.03	38.35	54.00	-15.65	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

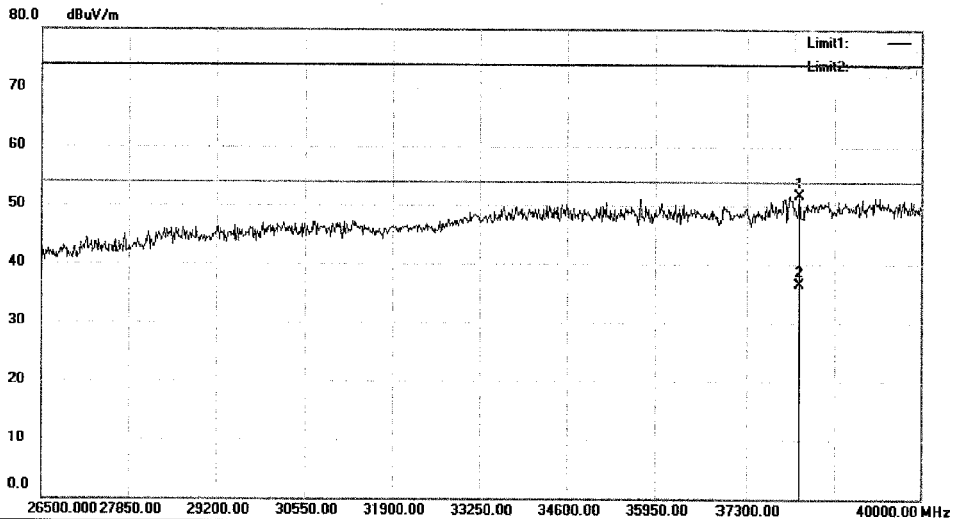
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Radiated Emission Measurement

File :TUV 9 Data :#307 Date: 15/09/21/



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5240
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		38096.50	87.82	-36.04	51.78	74.00	-22.22	peak		
2	*	38096.50	72.61	-36.04	36.57	54.00	-17.43	AVG		

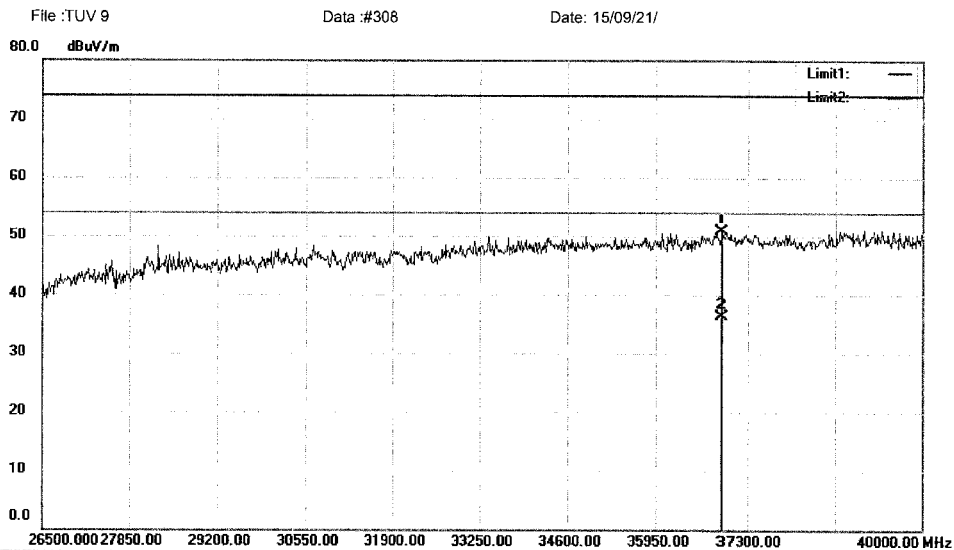
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#307

Page: 1

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5240
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		36935.50	88.18	-37.32	50.86	74.00	-23.14	peak		
2	*	36935.50	73.53	-37.32	36.21	54.00	-17.79	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#308

Page: 1

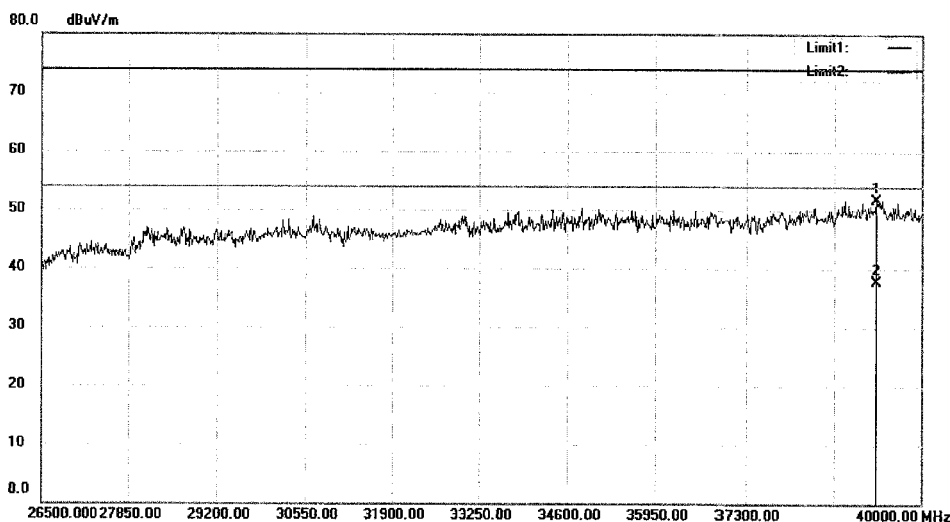
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Radiated Emission Measurement

File :TUV 9

Data :#309

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		39298.00	84.94	-33.28	51.66	74.00	-22.34	peak		
2	*	39298.00	70.96	-33.28	37.68	54.00	-16.32	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#309

Page: 1

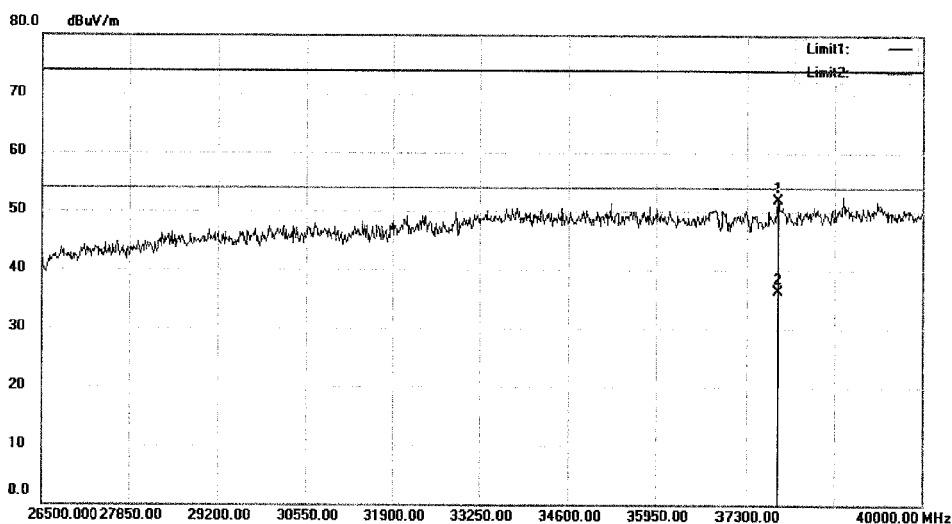
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Radiated Emission Measurement

File :TUV 9

Data :#310

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		37772.50	88.48	-36.49	51.99	74.00	-22.01	peak		
2	*	37772.50	72.81	-36.49	36.32	54.00	-17.68	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#310

Page: 1

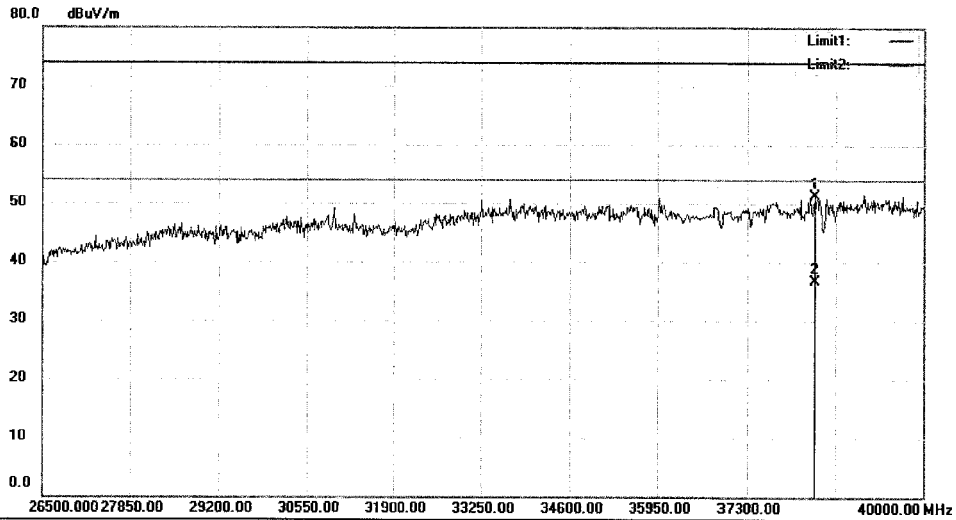
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Radiated Emission Measurement

File :TUV 9

Data :#311

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5785

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		38326.00	86.80	-35.51	51.29	74.00	-22.71	peak		
2	*	38326.00	72.25	-35.51	36.74	54.00	-17.26	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

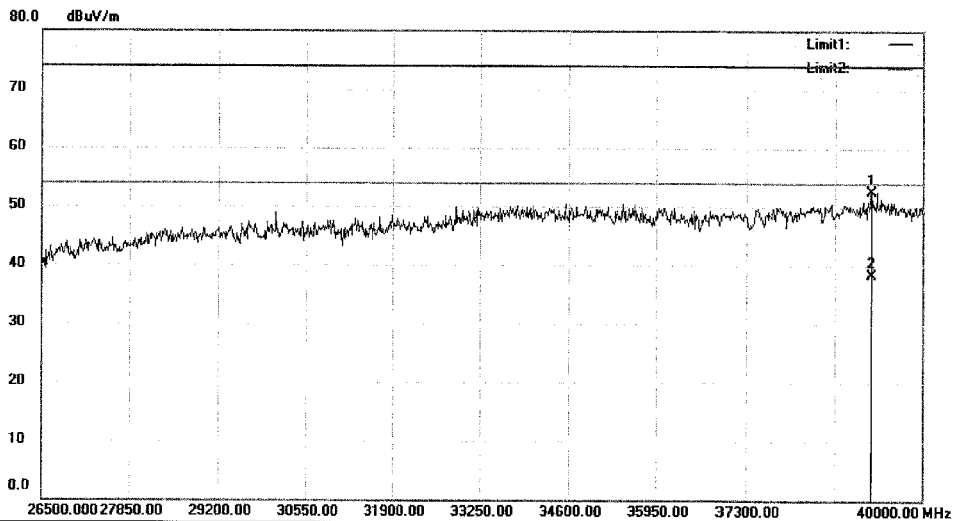
File :TUV 9\Data :#311

Page: 1

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Radiated Emission Measurement

File :TUV 9 Data :#312 Date: 15/09/21/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5785
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		39217.00	86.01	-33.47	52.54	74.00	-21.46	peak		
2	*	39217.00	71.68	-33.47	38.21	54.00	-15.79	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#312

Page: 1

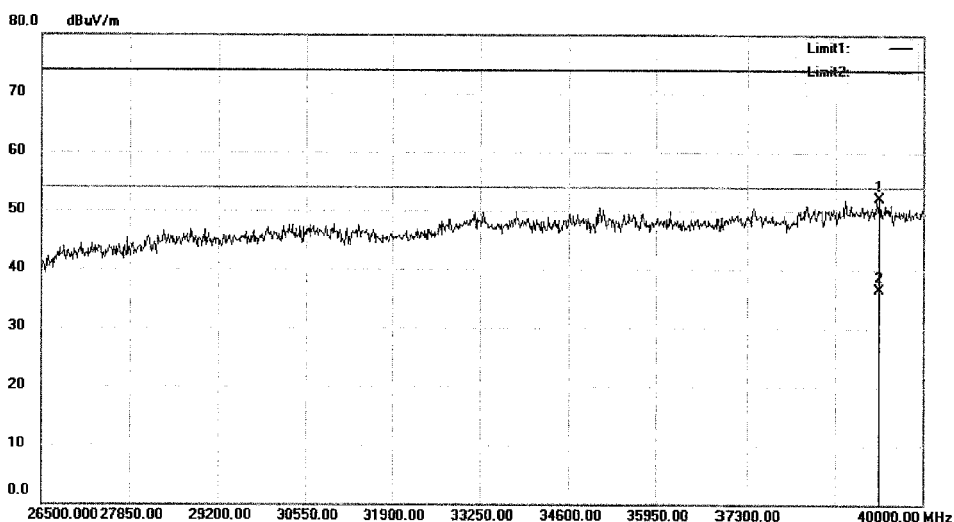
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Radiated Emission Measurement

File :TUV 9

Data :#313

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		39325.00	85.35	-33.22	52.13	74.00	-21.87	peak		
2	*	39325.00	69.76	-33.22	36.54	54.00	-17.46	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#313

Page: 1

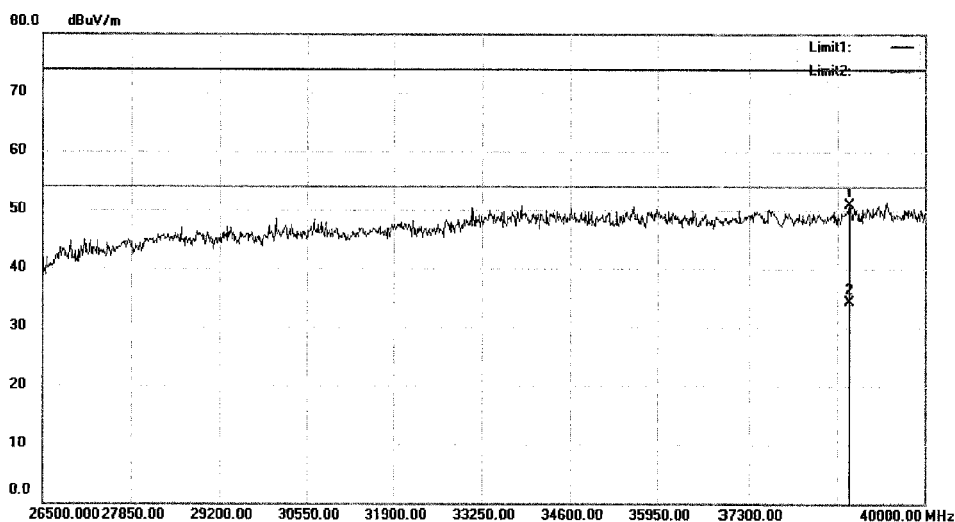
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Radiated Emission Measurement

File :TUV 9

Data :#314

Date: 15/09/21/



Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5825

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		38839.00	85.22	-34.33	50.89	74.00	-23.11	peak		
2	*	38839.00	68.61	-34.33	34.28	54.00	-19.72	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#314

Page: 1

Test Plot of Band Edge

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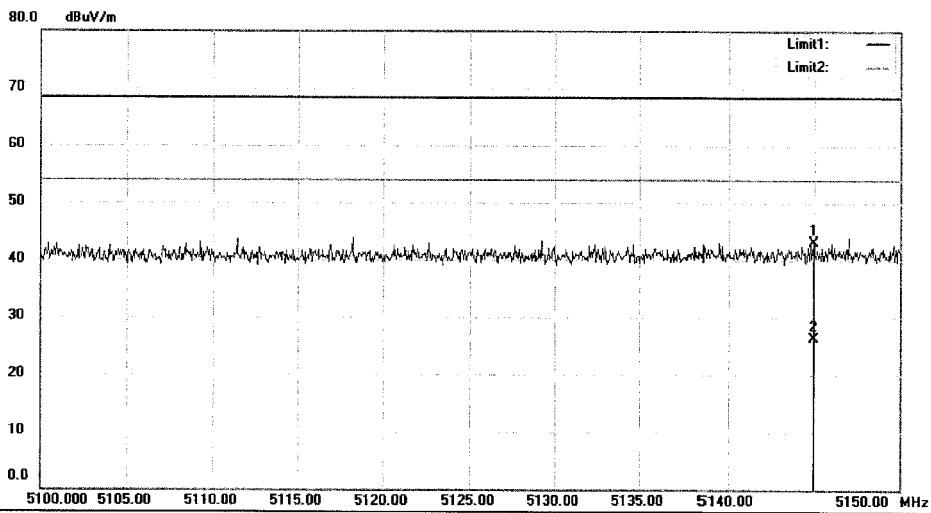


Radiated Emission Measurement

File :TUV 9

Data :#412

Date: 15/09/22/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	5144.950	57.45	-14.25	43.20	68.20	-25.00	peak		
2		5144.950	40.48	-14.25	26.23	54.00	-27.77	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#412

Page: 1

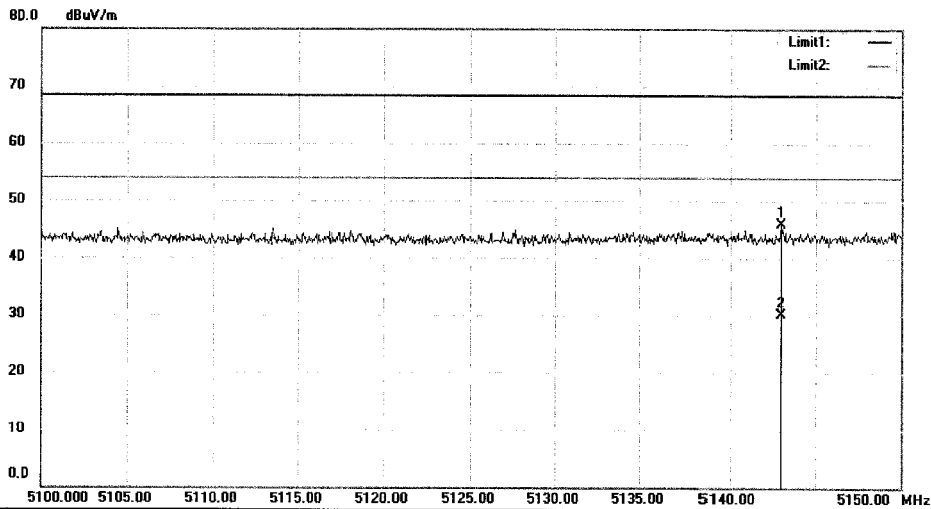
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Radiated Emission Measurement

File :TUV 9

Data :#411

Date: 15/09/22/



Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	5142.950	60.15	-14.26	45.89	68.20	-22.31	peak		
2		5142.950	44.38	-14.26	30.12	54.00	-23.88	AVG		

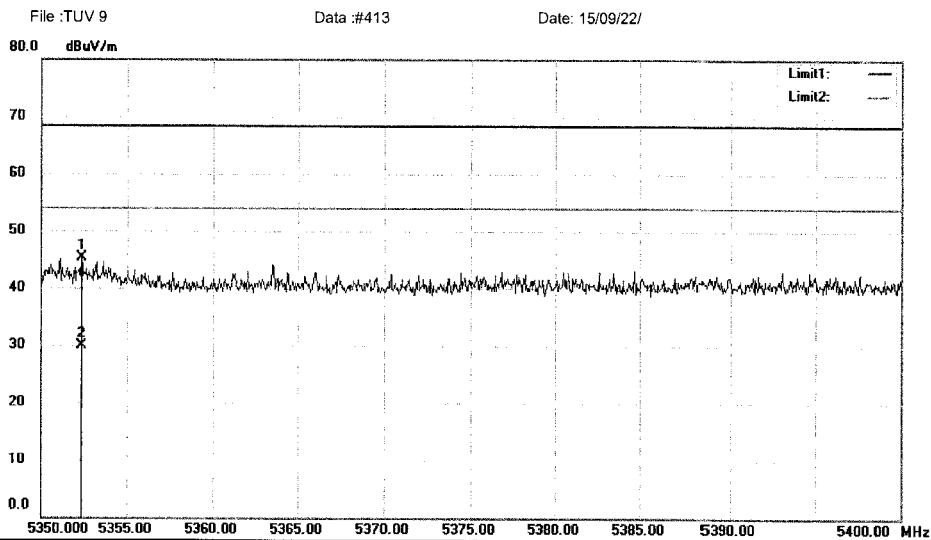
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#411

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Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5240
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	5352.350	59.30	-14.00	45.30	68.20	-22.90	peak		
2		5352.350	43.86	-14.00	29.86	54.00	-24.14	AVG		

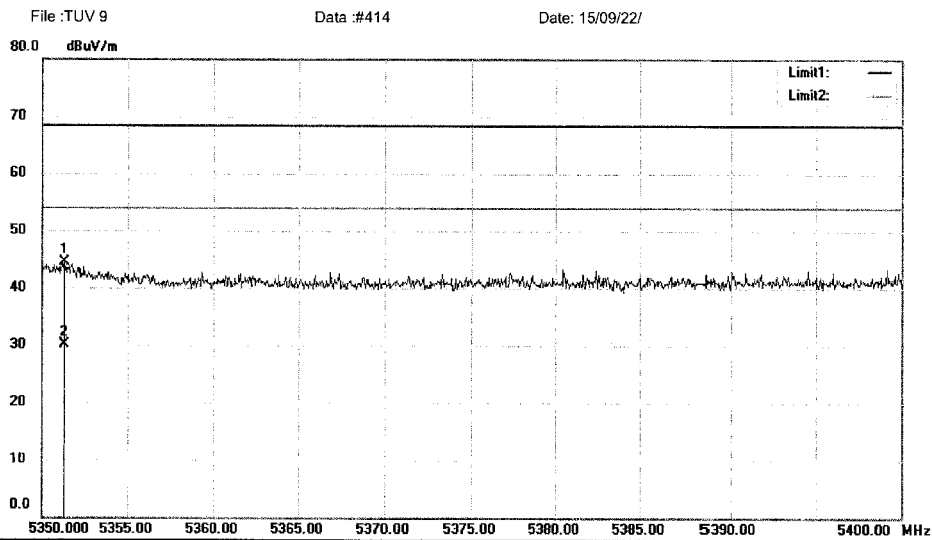
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Operator: KK

File: TUV 9 \Data: #413

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5240
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	5351.300	58.45	-14.00	44.45	68.20	-23.75	peak		
2		5351.300	44.12	-14.00	30.12	54.00	-23.88	AVG		

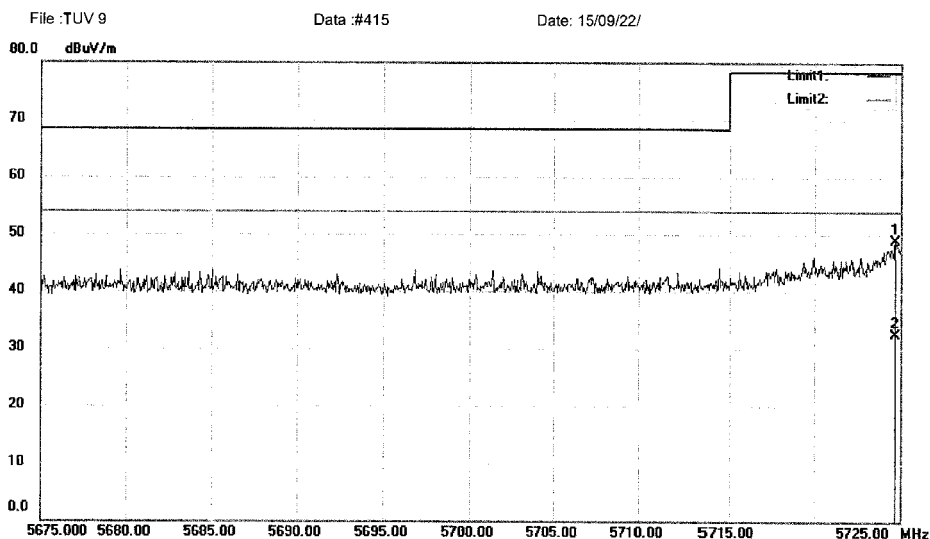
*:Maximum data x:Over limit !:over margin

Operator: KK

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Radiated Emission Measurement


Site: 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5745

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5724.700	62.45	-13.56	48.89	78.20	-29.31	peak		
2	*	5724.700	46.07	-13.56	32.51	54.00	-21.49	AVG		

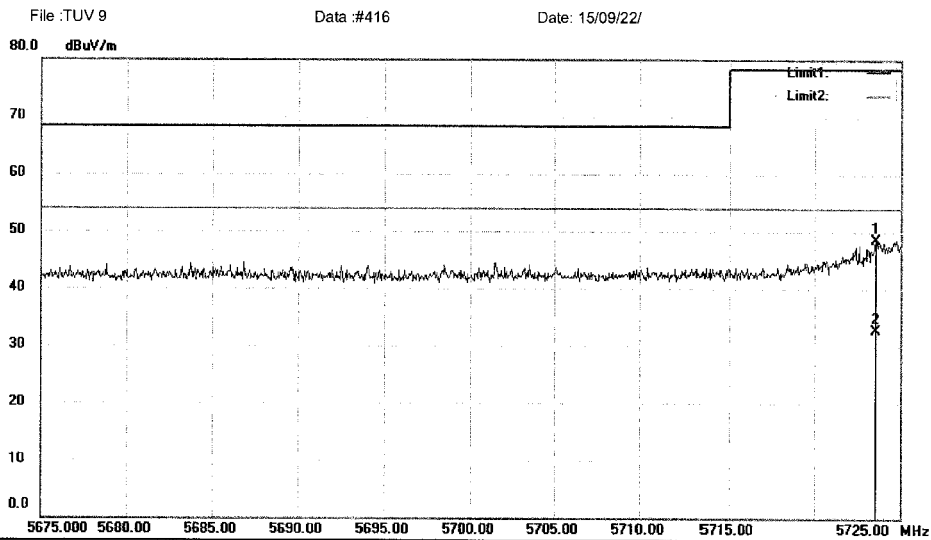
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Operator: KK

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5745
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5723.550	62.16	-13.56	48.60	78.20	-29.60	peak		
2	*	5723.550	46.31	-13.56	32.75	54.00	-21.25	AVG		

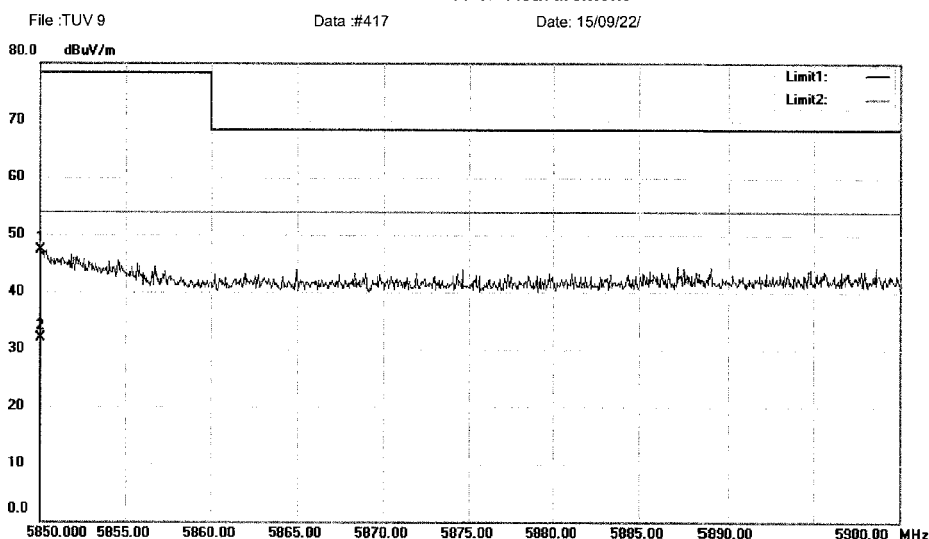
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#416

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Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5825
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5850.050	60.65	-13.41	47.24	78.20	-30.96	peak		
2	*	5850.050	45.36	-13.41	31.95	54.00	-22.05	AVG		

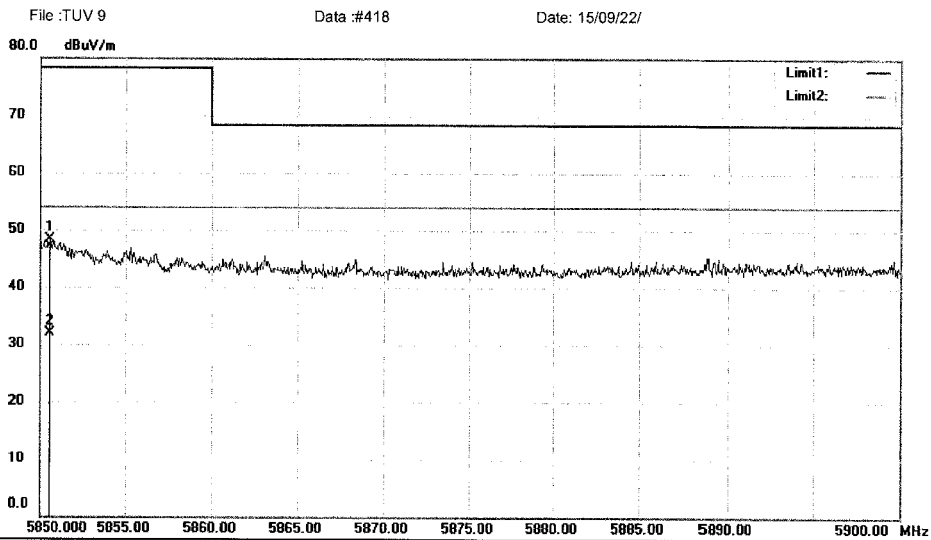
*: Maximum data x: Over limit !: over margin

Operator: KK

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5825
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		5850.550	61.70	-13.41	48.29	78.20	-29.91	peak		
2	*	5850.550	45.27	-13.41	31.86	54.00	-22.14	AVG		

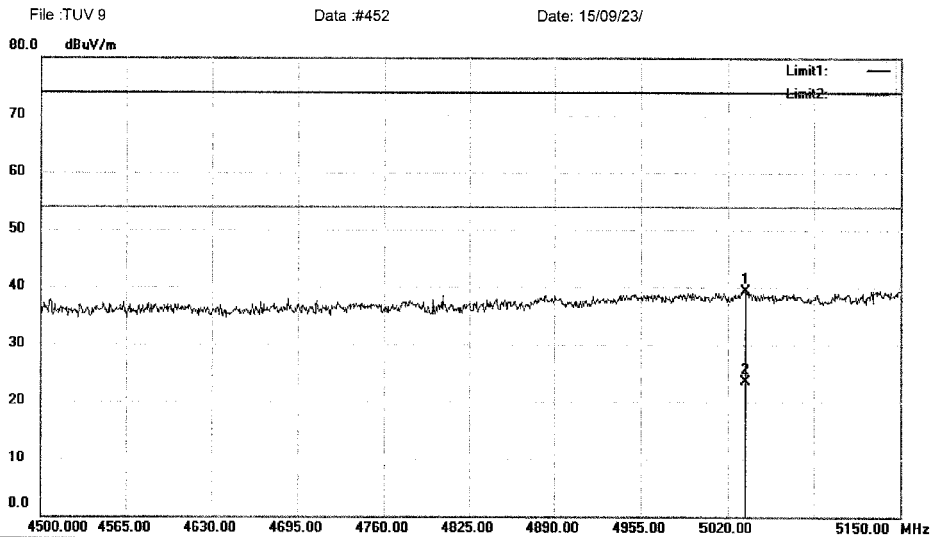
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#418

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Radiated Emission Measurement


Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5033.650	59.25	-19.97	39.28	74.00	-34.72	peak		
2	*	5033.650	43.45	-19.97	23.48	54.00	-30.52	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

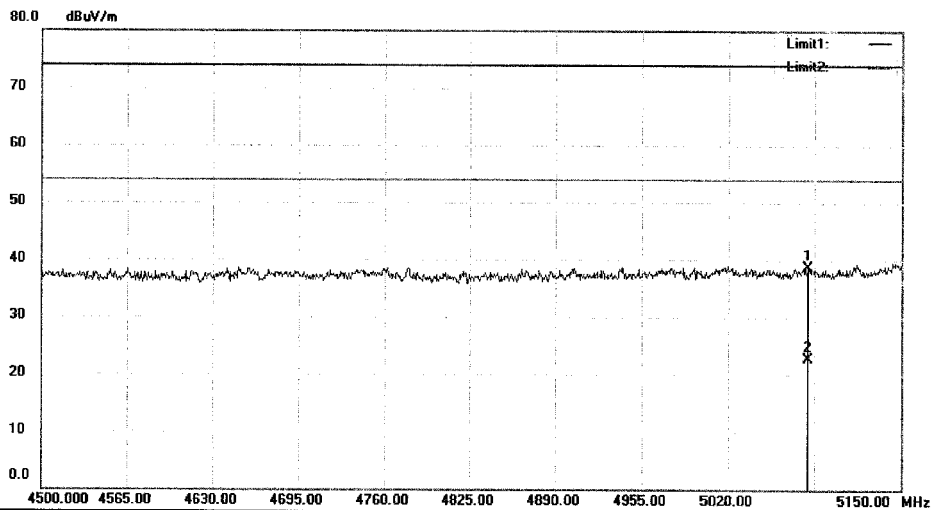
File: TUV 9 \Data: #452

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Radiated Emission Measurement

File :TUV 9 Data :#451 Date: 15/09/23/



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:11A 5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5080.450	58.67	-19.95	38.72	74.00	-35.28	peak		
2	*	5080.450	42.70	-19.95	22.75	54.00	-31.25	AVG		

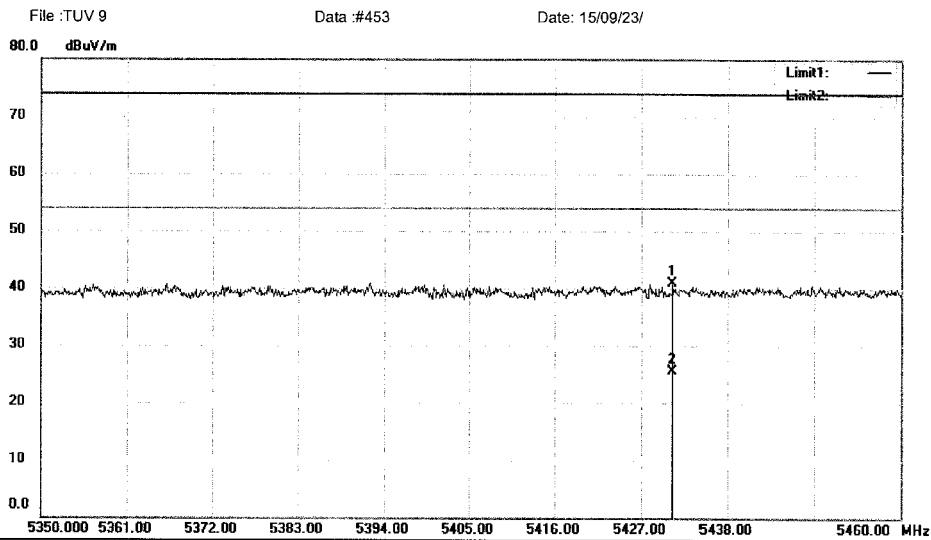
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#451

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5431.070	60.69	-19.76	40.93	74.00	-33.07	peak		
2	*	5431.070	45.17	-19.76	25.41	54.00	-28.59	AVG		

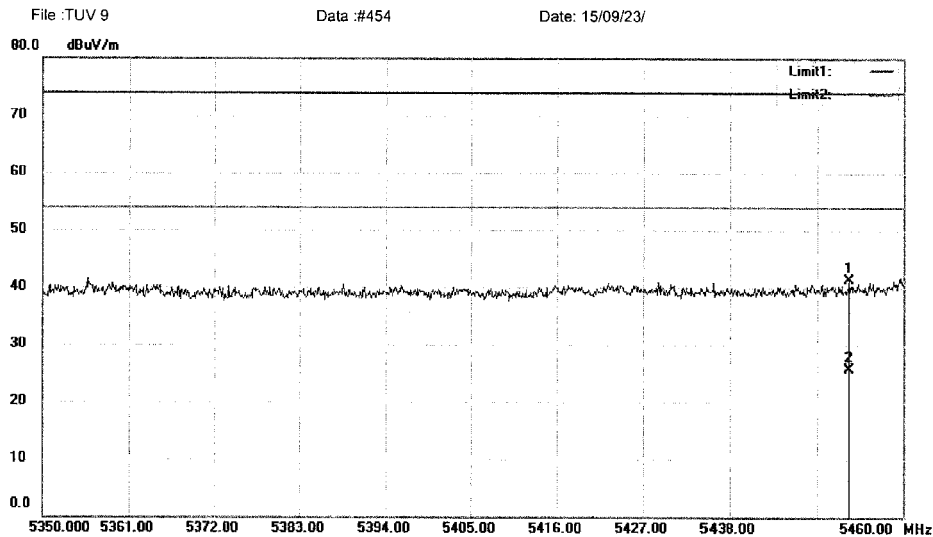
*:Maximum data x:Over limit !:over margin

Operator: KK

File : TUV 9\Data : #453

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Radiated Emission Measurement


Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15.407 Peak Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: 11A 5180
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5453.070	61.03	-19.75	41.28	74.00	-32.72	peak		
2	*	5453.070	45.48	-19.75	25.73	54.00	-28.27	AVG		

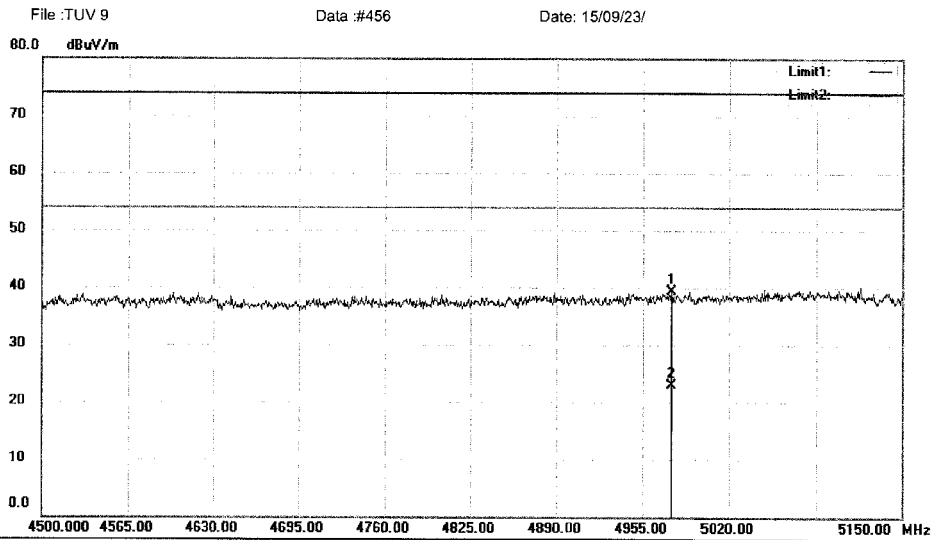
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#454

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		4977.100	59.81	-20.46	39.35	74.00	-34.65	peak		
2	*	4977.100	43.32	-20.46	22.86	54.00	-31.14	AVG		

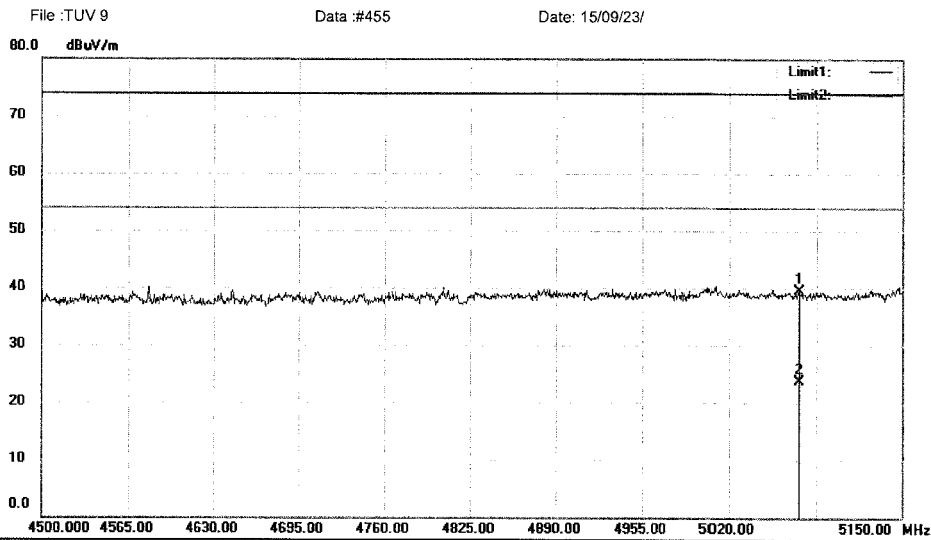
*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#456

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Radiated Emission Measurement


Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: 11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5072.000	59.43	-19.95	39.48	74.00	-34.52	peak		
2	*	5072.000	43.57	-19.95	23.62	54.00	-30.38	AVG		

*:Maximum data x:Over limit l:over margin

Operator: KK

File :TUV 9\Data :#455

Page: 1

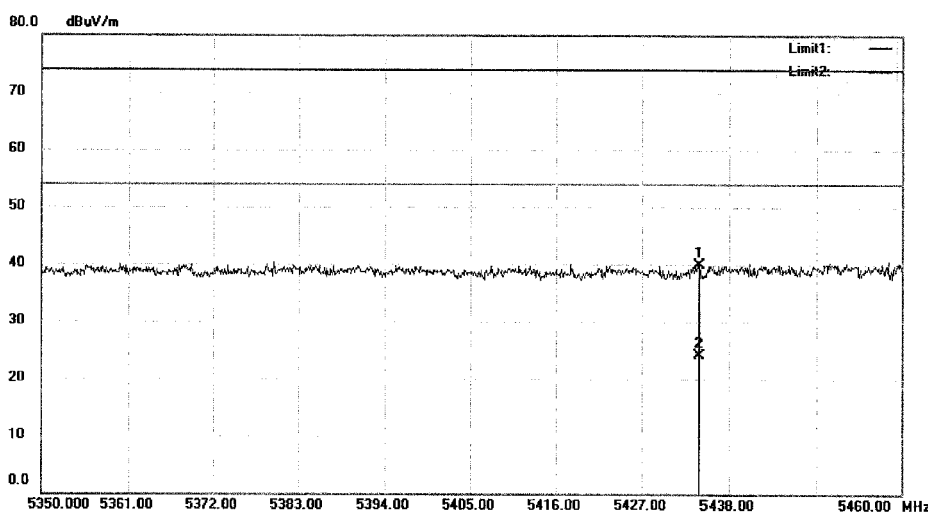
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Radiated Emission Measurement

File :TUV 9

Data :#457

Date: 15/09/23/



Site 3m Chamber #3

 Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5434.370	59.68	-19.75	39.93	74.00	-34.07	peak		
2	*	5434.370	43.90	-19.75	24.15	54.00	-29.85	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUV 9\Data :#457

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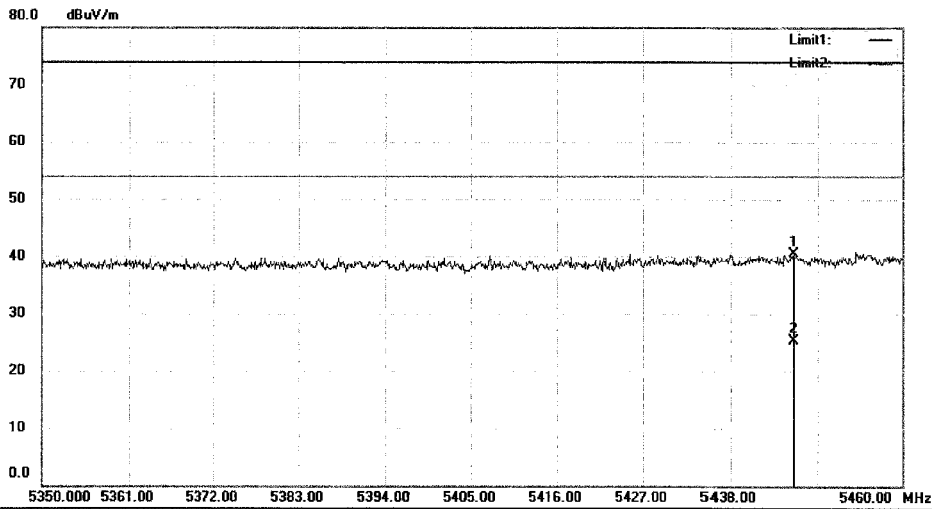
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Radiated Emission Measurement

File :TUV 9

Data :#458

Date: 15/09/23/



Site 3m Chamber #3

 Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.407 Peak

Power: AC 120V/60Hz

Humidity: 53 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode:11A 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		5445.920	60.20	-19.75	40.45	74.00	-33.55	peak		
2	*	5445.920	44.99	-19.75	25.24	54.00	-28.76	AVG		

*:Maximum data x:Over limit l:over margin

Operator: KK

File :TUV 9\Data :#458

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Prüfbericht - Nr.: 17052720 003

Test Report No.

Seite 101 von 107

Page 101 of 107

5.1.7 Conducted emissions**RESULT:****Pass**

Date of testing	:	2015-09-23
Test standard	:	FCC Part 15.207
	:	FCC part 15.407(b)(6)
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207
Kind of test site	:	Shield room

Test setup

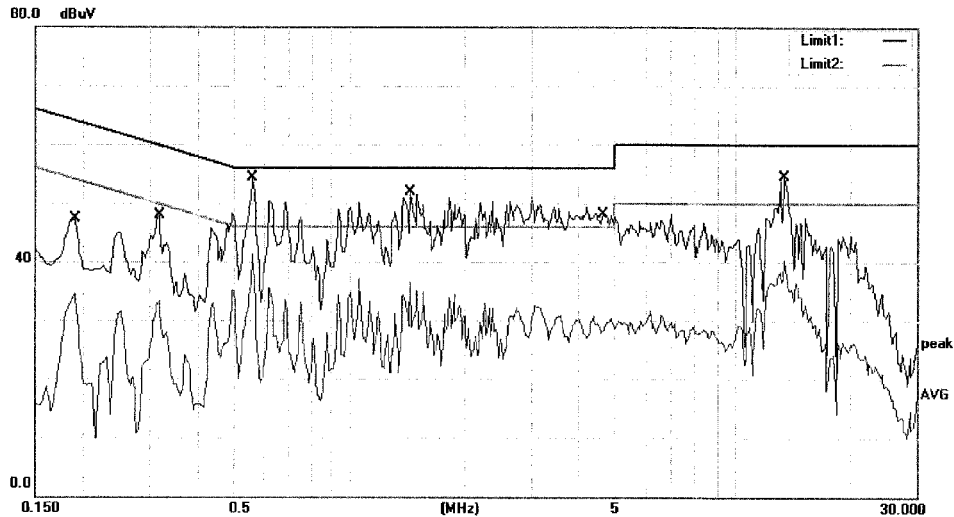
Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	26°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

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Conducted Emission Measurement

File :TUV Data :#838 Date: 2015/09/23



Site Conduction #2

Phase: L1

Temperature: 26

Limit: (CE)FCC PART 15 class C_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: WIFI 5G

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1900	47.25	0.00	47.25	64.04	-16.79	QP	
2		0.1900	34.46	0.00	34.46	54.04	-19.58	AVG	
3		0.3150	48.00	0.00	48.00	59.84	-11.84	QP	
4		0.3150	33.39	0.00	33.39	49.84	-16.45	AVG	
5		0.5600	50.70	0.00	50.70	56.00	-5.30	QP	
6	*	0.5600	41.29	0.00	41.29	46.00	-4.71	AVG	
7		1.4350	49.20	0.00	49.20	56.00	-6.80	QP	
8		1.4350	36.49	0.00	36.49	46.00	-9.51	AVG	
9		4.6400	48.14	0.00	48.14	56.00	-7.86	QP	
10		4.6400	30.65	0.00	30.65	46.00	-15.35	AVG	
11		13.4750	54.55	0.00	54.55	60.00	-5.45	QP	
12		13.4750	40.29	0.00	40.29	50.00	-9.71	AVG	

*:Maximum data x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

File :TUVData :#838

Page: 1

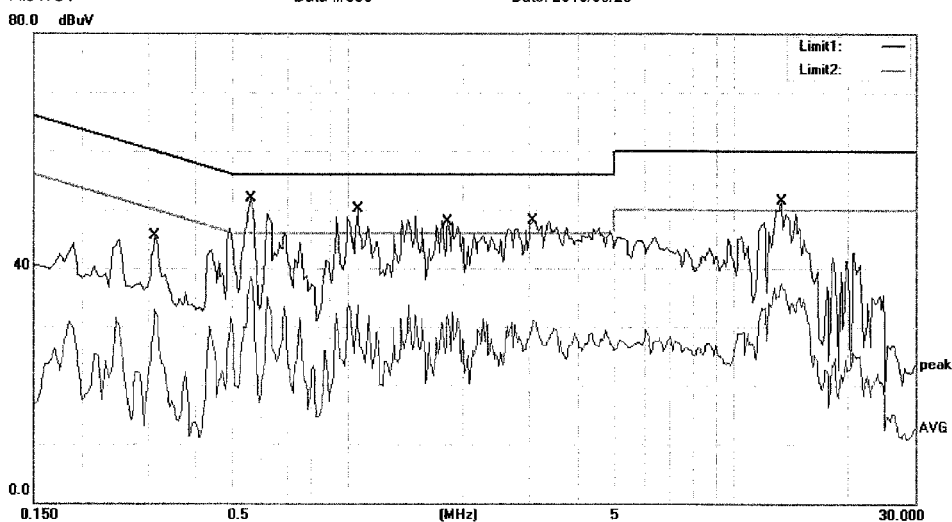
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Conducted Emission Measurement

File :TUV

Data :#835

Date: 2015/09/23



Site Conduction #2

 Phase: **N**

Temperature: 26

Limit: (CE)FCC PART 15 class C_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: WIFI 5G

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3100	45.56	0.00	45.56	59.97	-14.41	QP	
2		0.3100	32.93	0.00	32.93	49.97	-17.04	AVG	
3	*	0.5600	48.60	0.00	48.60	56.00	-7.40	QP	
4		0.5600	38.54	0.00	38.54	46.00	-7.46	AVG	
5		1.0550	48.30	0.00	48.30	56.00	-7.70	QP	
6		1.0550	33.66	0.00	33.66	46.00	-12.34	AVG	
7		1.8100	45.90	0.00	45.90	56.00	-10.10	QP	
8		1.8100	32.43	0.00	32.43	46.00	-13.57	AVG	
9		3.0600	46.80	0.00	46.80	56.00	-9.20	QP	
10		3.0600	31.10	0.00	31.10	46.00	-14.90	AVG	
11		13.3500	51.45	0.00	51.45	60.00	-8.55	QP	
12		13.3500	37.49	0.00	37.49	50.00	-12.51	AVG	

*:Maximum data x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

File :TUVData :#835

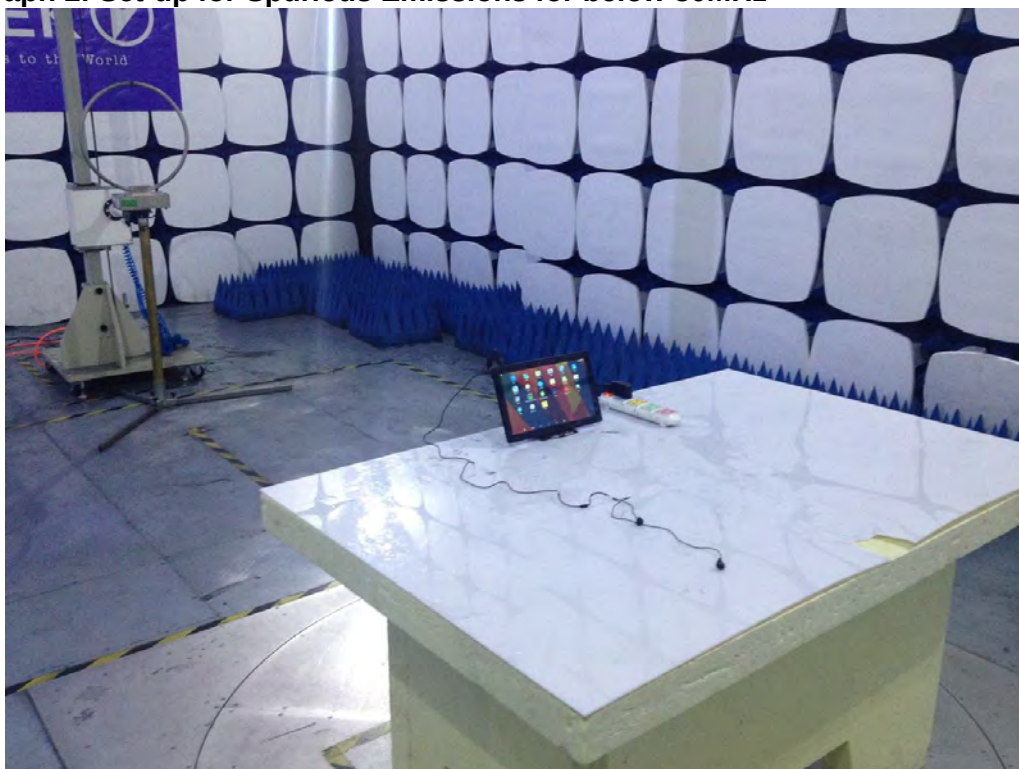
Page: 1

6. Photographs of the Test Set-Up

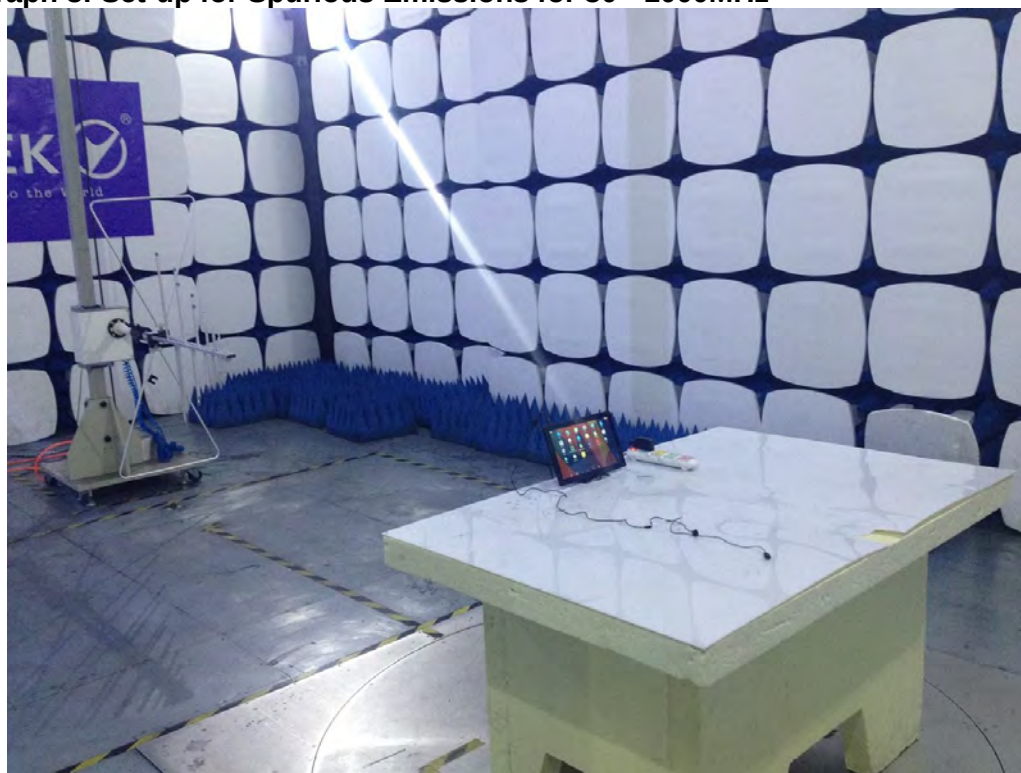
Photograph 1: Set-up for Conducted Emissions



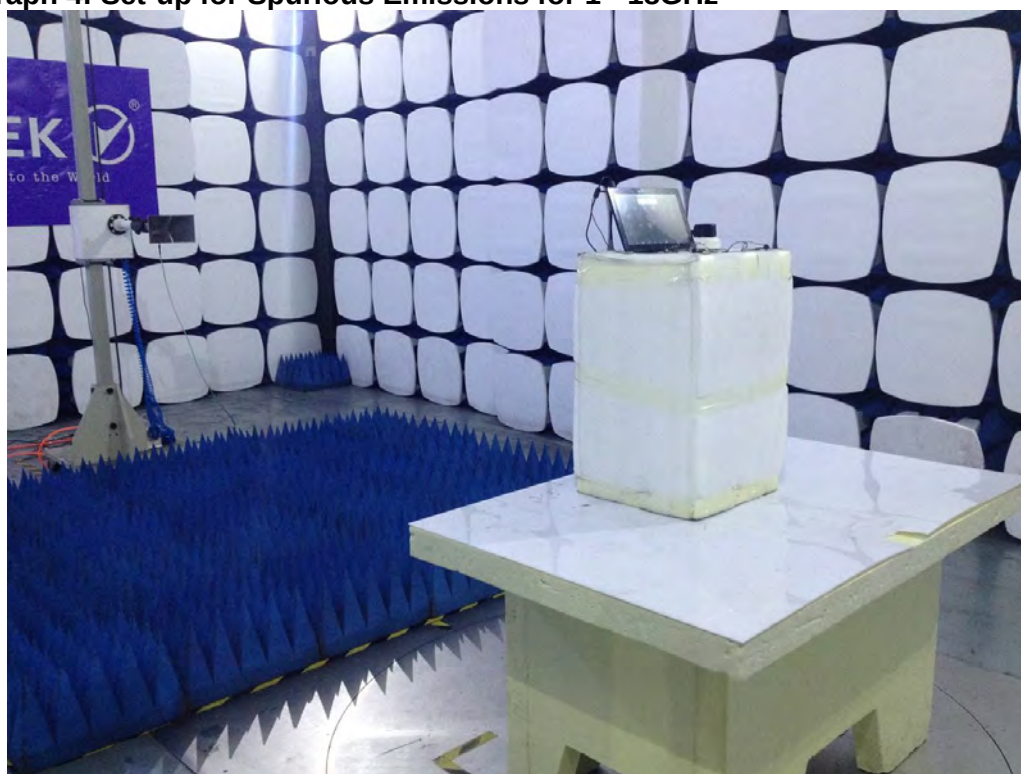
Photograph 2: Set-up for Spurious Emissions for below 30MHz



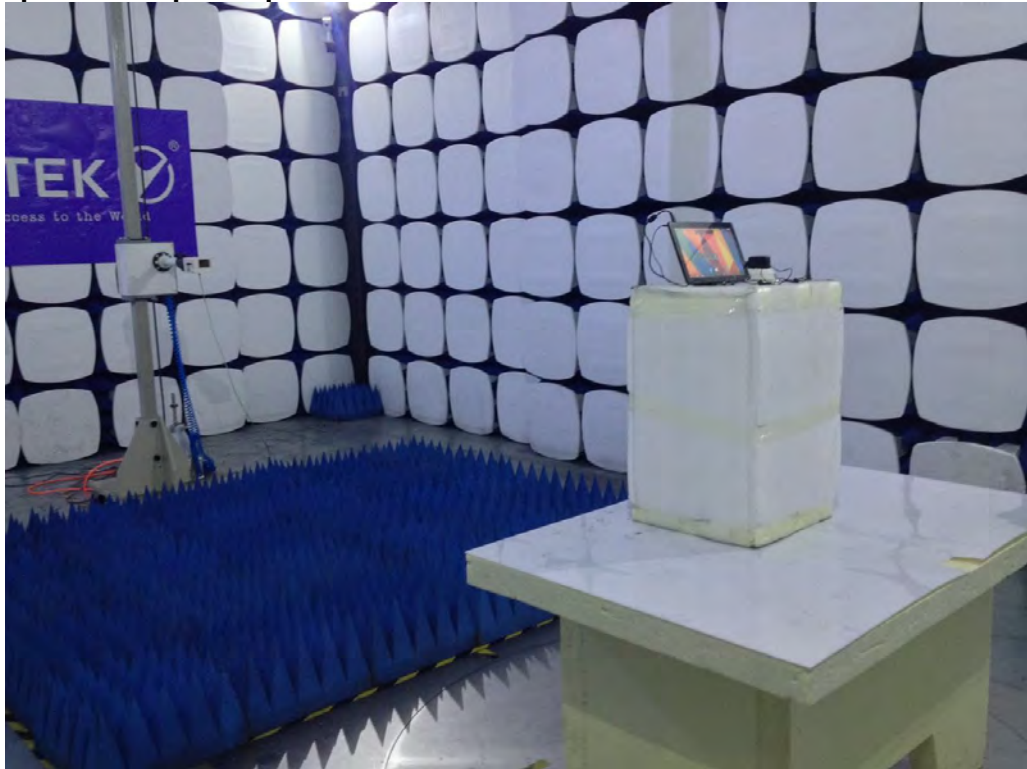
Photograph 3: Set-up for Spurious Emissions for 30 - 1000MHz



Photograph 4: Set-up for Spurious Emissions for 1 - 18GHz



Photograph 5: Set-up for Spurious Emissions for 18 - 40GHz



7. List of Tables

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