FCC Test Report

FCC Part 15.247 for FHSS systems/ CANADA RSS-210

Tablet PC with BT QBTM300

MODEL #: iX104C3

XPLORE TECHNOLOGIES, INC.
14000 SUMMIT RD. SUITE 900
AUSTIN, TEXAS 78728
U.S.A

FCC ID: Q2GIX104-150 and Q2GIX104-154
IC ID: IC 4596A-IX104WBG

TEST REPORT #: EMC_XPLOR_006_06002_15.247BT
Date: 09/08/2006

ilac-MRA A2LA ACCREDITED Certificate # 2135.01

Bluetooth

Bluetooth Qualification Test Facility (BQTF)

CTIA Authorized Testing Laboratory

FCC listed# 101450

IC recognized # 3925

***CETECOM* Inc.**
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1 Assessment

The following is in compliance with the applicable criteria specified in FCC rules Part 15.247 of the Code of Federal Regulations and in compliance with the applicable criteria specified in Industry Canada rules RSS210.

Company	Description	Model #
XPLORE TECHNOLOGIES, INC.	**Tablet PC with BT QBTM300**	**iX104C3**

Michael Grings
Project Engineer

The test results of this test report relate exclusively to the test item specified in Identification of the Equipment under Test. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	**CETECOM Inc.**
Department:	**EMC**
Address:	**411 Dixon Landing Road Milpitas, CA 95035 U.S.A.**
Telephone:	**+1 (408) 586 6200**
Fax:	**+1 (408) 586 6299**
Responsible Test Lab Manager:	**Lothar Schmidt**
Responsible Project Leader:	**Michael Grings**
Date of test:	**8/24/2006 to 8/28/2006**

2.2 Identification of the Client

Applicant's Name:	**XPLORE TECHNOLOGIES, INC.**
Street Address:	**14000 SUMMIT RD, SUITE 900**
City/Zip Code	**AUSTIN, TEXAS 78728**
Country	**U.S.A**
Contact Person:	**Tom Lavka**
Phone No.	**512.485.7984**
Fax:	**512.336.7791**
e-mail:	**tlavka@xploretech.com**

2.3 Identification of the Manufacturer

Manufacturer's Name:	**XPLORE TECHNOLOGIES, INC.**
Manufacturers Address:	**14000 SUMMIT RD, SUITE 900**
City/Zip Code	**AUSTIN, TEXAS 78728**
Country	**U.S.A**

3 Equipment under Test (EUT)

3.1 Specification of the Equipment under Test

Marketing Name:	**iX104C3**
Description:	**Tablet PC with BT Module QBTM300**
Model No:	**C3**
FCC ID:	**Q2GIX104-150 and Q2GIX104-154**
IC ID:	**IC 4596A-IX104WBG**
Frequency Range:	**2400-2483.5MHz**
Type(s) of Modulation:	**GFSK**
Number of Channels:	**79**
Antenna Type:	**PCB antenna**
Output Power:	**0.000148 W EIRP@ 2402 MHz**

3.2 Identification of the Equipment Under Test (EUT)

EUT #	TYPE	MANF.	MODEL	SERIAL #
1	Tablet PC	Xplore Technologies	iX104C3 (conducted)	UNIT 1
2	Tablet PC	Xplore Technologies	iX104C3 (conducted)	UNIT 2

3.3 Identification of Accessory equipment

AE #	TYPE	MANF.	MODEL	SERIAL #
1	AC/DC ADAPTER	Delta Electronics Incorporation	SADP65KB D	92W0546007789
2	AC/DC ADAPTER	Delta Electronics Incorporation	SADP65KB D	92W0546008016

3.4 EUT Setup

The following setup(s) were used for testing.

EUT set-up no.	Combination of EUT and AE	Comments
Setup# 1	EUT1 +AE1	Tablet PC with AC Adapter
Setup# 2	EUT2 +AE2	Tablet PC with AC Adapter

3.5 EUT operating mode

EUT operating mode no.*)	Description of operating modes	Additional information
op. 1	Transmit (Tx)	Transmit with maximum power on dedicated Channels
op. 2	Receive (Rx)	Receive mode

4 Subject Of Investigation

All testing was performed on the iX104C3 referred to as EUT. The EUT carries a pre-certified Bluetooth module with FCC ID# RUJ-**QBTM300**. This test report contains full radiated testing as per FCC15.247 on the EUT with the pre-certified Bluetooth module. All conducted measurements are covered under Report No.: RF940316L02.

During the testing process the EUT was tested on a single channel using PRBS9 payload using DH5 packets, all data in this report shows the worst case between horizontal and vertical polarization for above 1GHz.

The objective of the measurements done by Cetecom Inc. was to measure the performance of the EUT as specified by requirements listed in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Industry Canada rules RSS210.

5 Measurements

5.1 MAXIMUM PEAK OUTPUT POWER § 15.247 (RADIATED)

5.1.1 LIMIT SUB CLAUSE § 15.247 (b) (1) (2) (3) (4)

Frequency range	RF power output
2400-2483.5 MHz	36dBm EIRP

***limit is based upon antenna gain of less than or equal to 6dBi.**

5.1.2 EIRP:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T_{nom}(23)°C	V_{nom}VDC	-8.31	-9.49	-10.00
Measurement uncertainty		±0.5dBm		

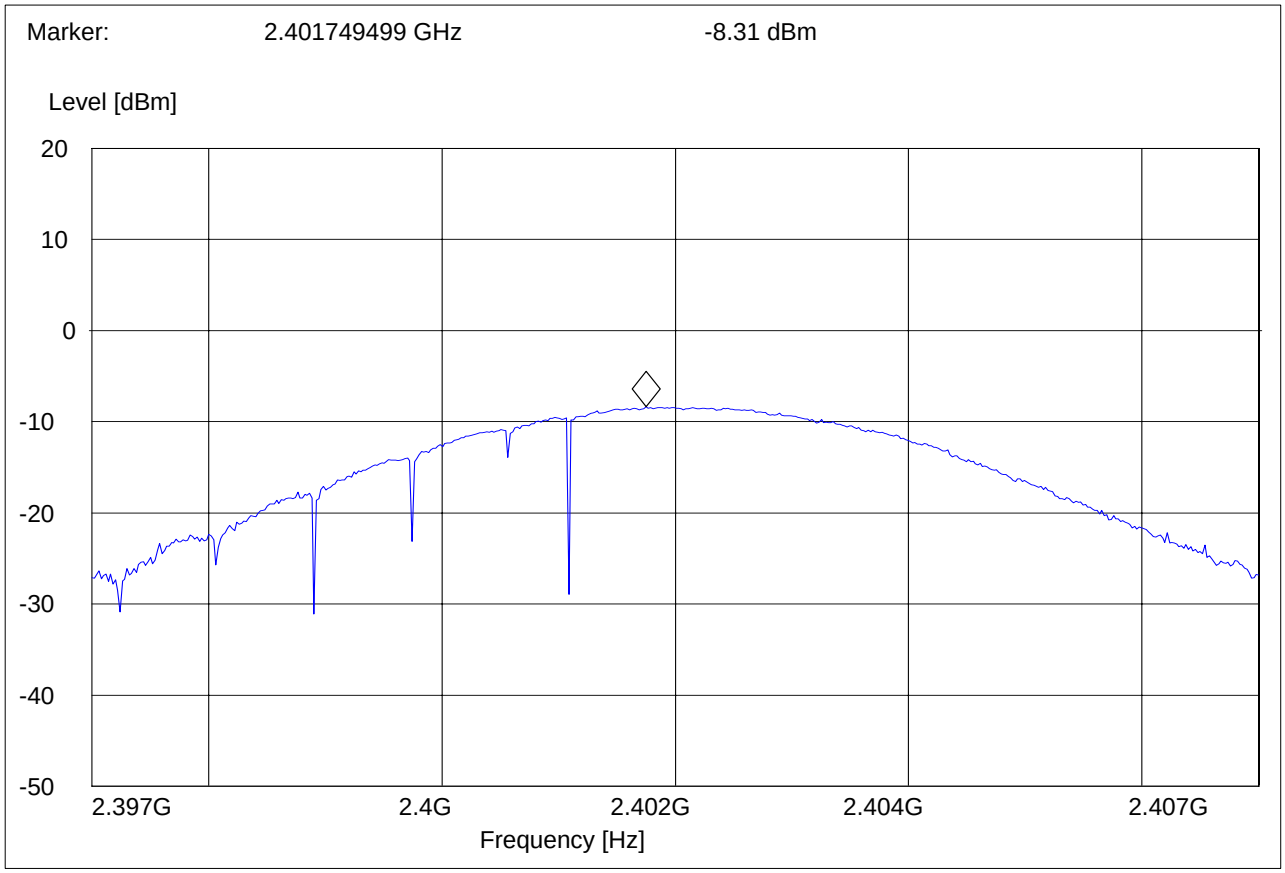
EIRP (2402 MHz)

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_EU  (unit #2)
Customer:          XPLORER
Operating Mode:    BT low ch 2402 Mhz  turntable at 55° rotation
Antenna:           H
EUT:               V
Test Engineer:     Ed
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             EIRP BT low channel
```

SWEEP TABLE: "EIRP BT low channel"

Short Description:		EIRP Bluetooth channel-2402MHz			
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.4 GHz	2.4 GHz	MaxPeak MaxPeak	Coupled	3 MHz	DUMMY-DBM



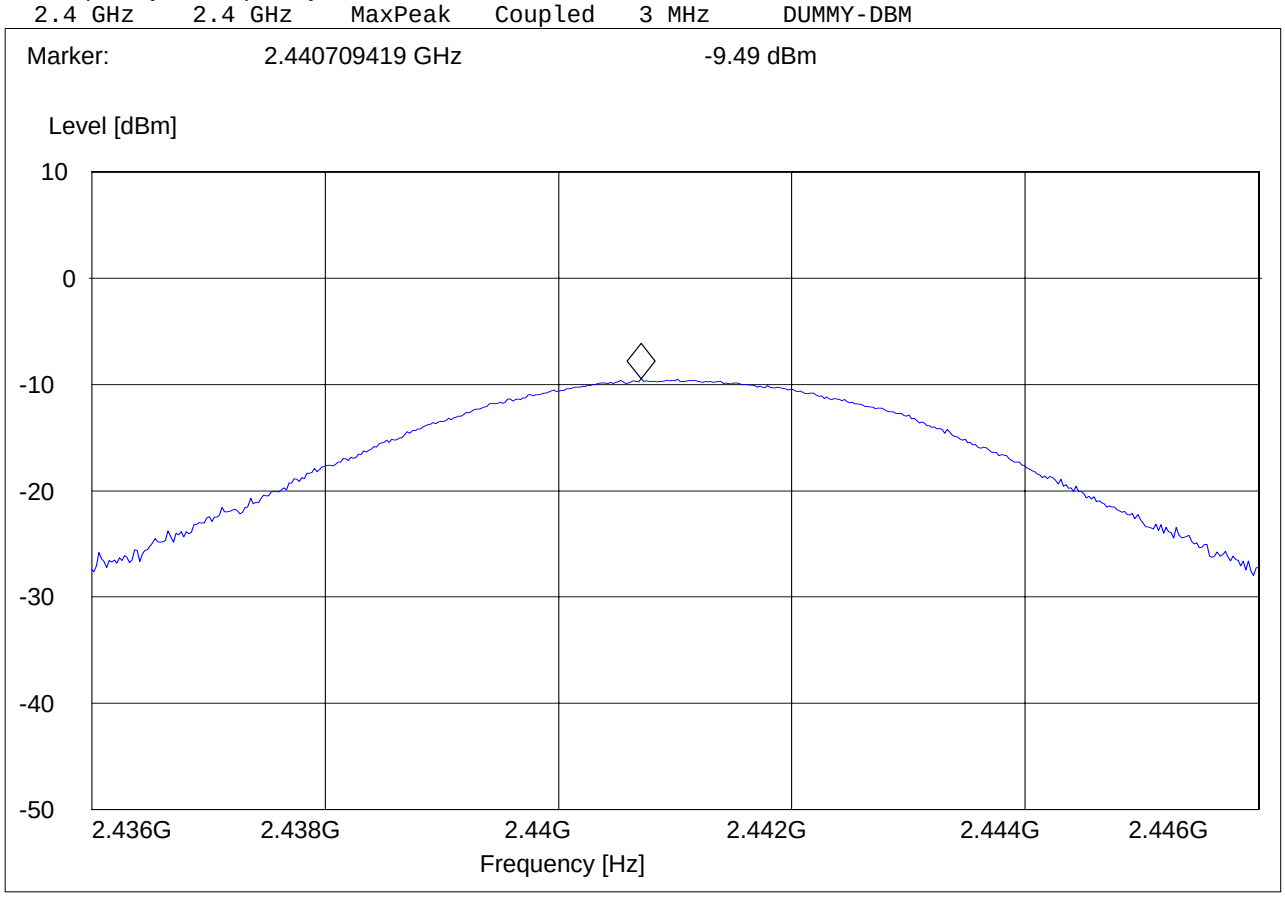
EIRP (2441 MHz)

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_EU  (unit #2)
Customer:          XPLORER
Operating Mode:    BT mid ch 2441Mhz  turntable at 55° rotation
Antenna:           H
EUT:               V
Test Engineer:     Ed
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             EIRP BT mid channel
```

SWEEP TABLE: "EIRP BT mid channel"

Short Description:			EIRP Bluetooth channel-2441MHz		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.4 GHz	2.4 GHz	MaxPeak	Coupled	3 MHz	DUMMY-DBM



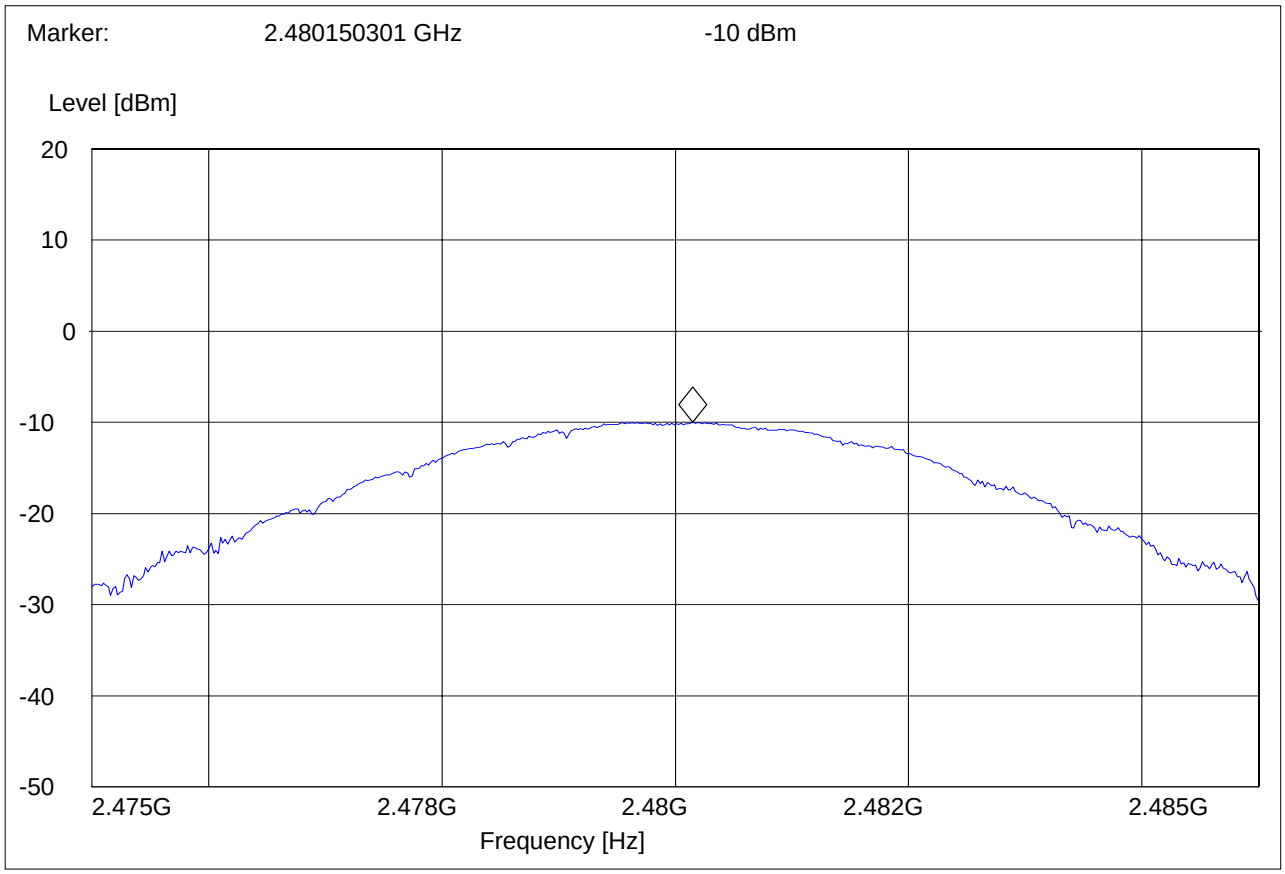
EIRP (2480 MHz)

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_EU  (unit #2)
Customer:          XPLORER
Operating Mode:    BT high ch 2480 Mhz  turntable at 55° rotation
Antenna:           H
EUT:               V
Test Engineer:     Ed
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             EIRP BT high channel
```

SWEEP TABLE: "EIRP BT high channel"

Short Description:			EIRP Bluetooth channel-2480MHz		
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak MaxPeak	Coupled	3 MHz	DUMMY-DBM



5.2 RESTRICTED BAND EDGE COMPLIANCE RADIATED §15.247/15.205

5.2.1 LIMITS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

***PEAK LIMIT= 74dBuV/m**
***AVG. LIMIT= 54dBuV/m**

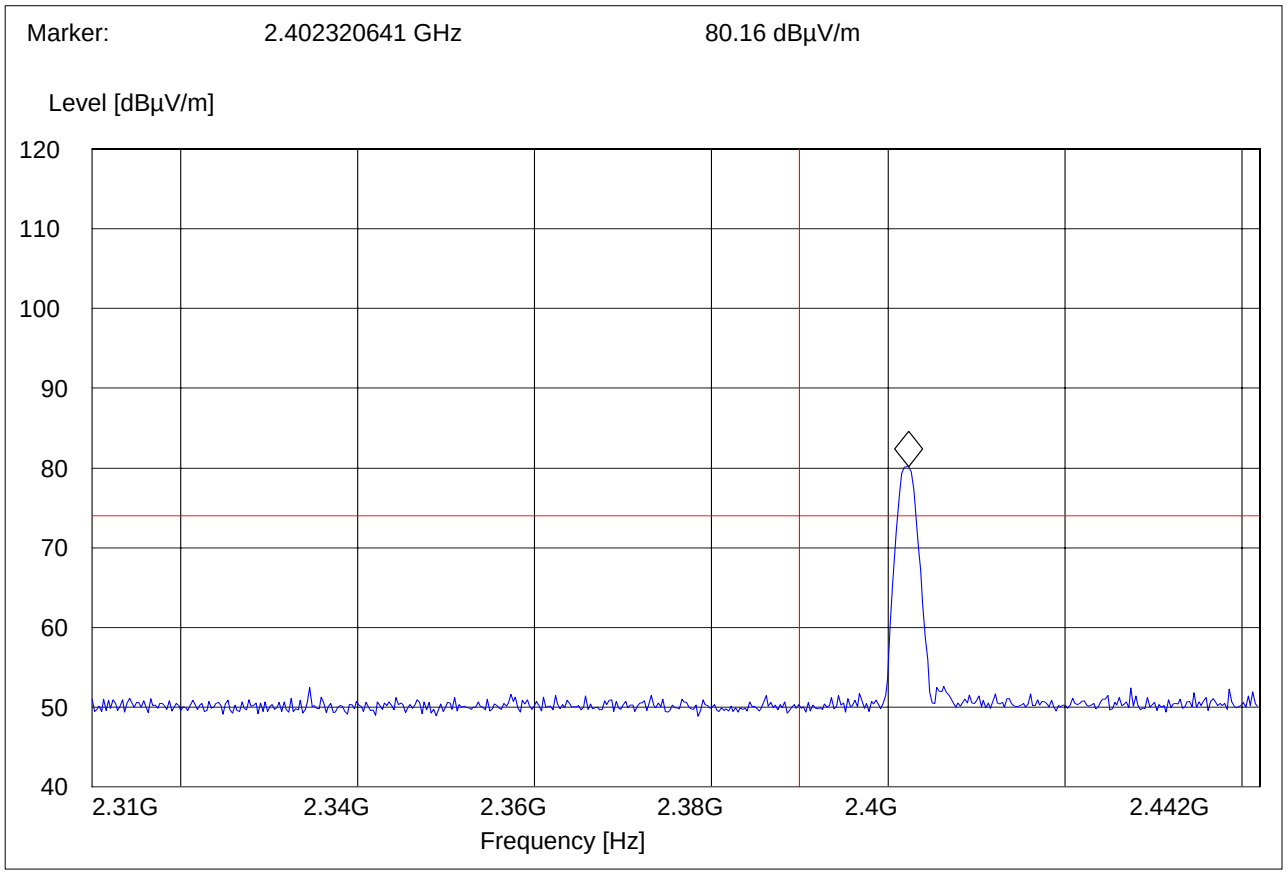
5.2.2 RESULTS (2402MHz)
PEAK

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT
Antenna:           H
EUT:               V
Test Engineer:     PETER
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 LBE_PK
```

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



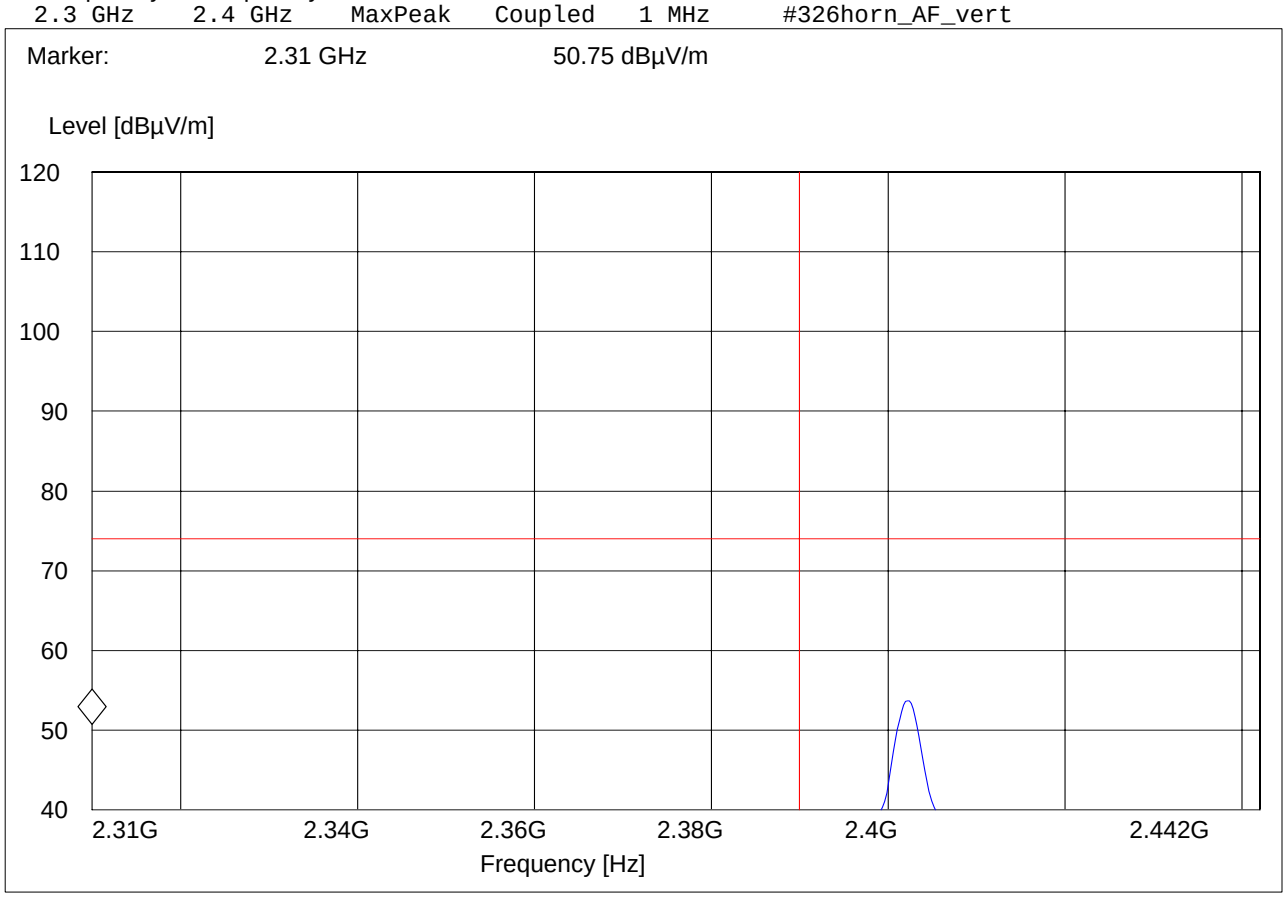
AVG

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT
Antenna:           H
EUT:               V
Test Engineer:     PETER
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 LBE_AVG
```

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



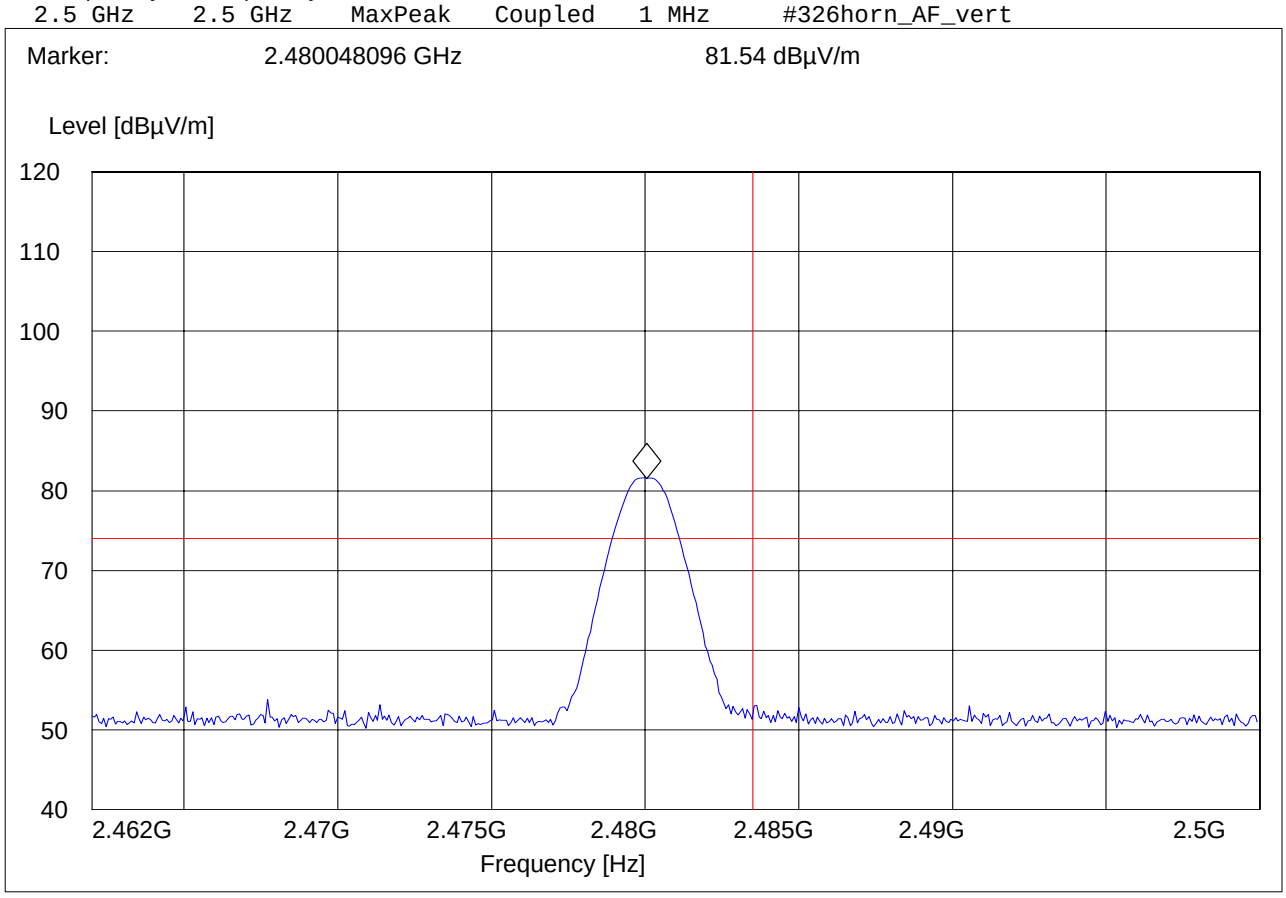
5.2.3 RESULTS (2480MHz)
PEAK

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT
Antenna:           H
EUT:               V
Test Engineer:     PETER
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 HBE_PK
```

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



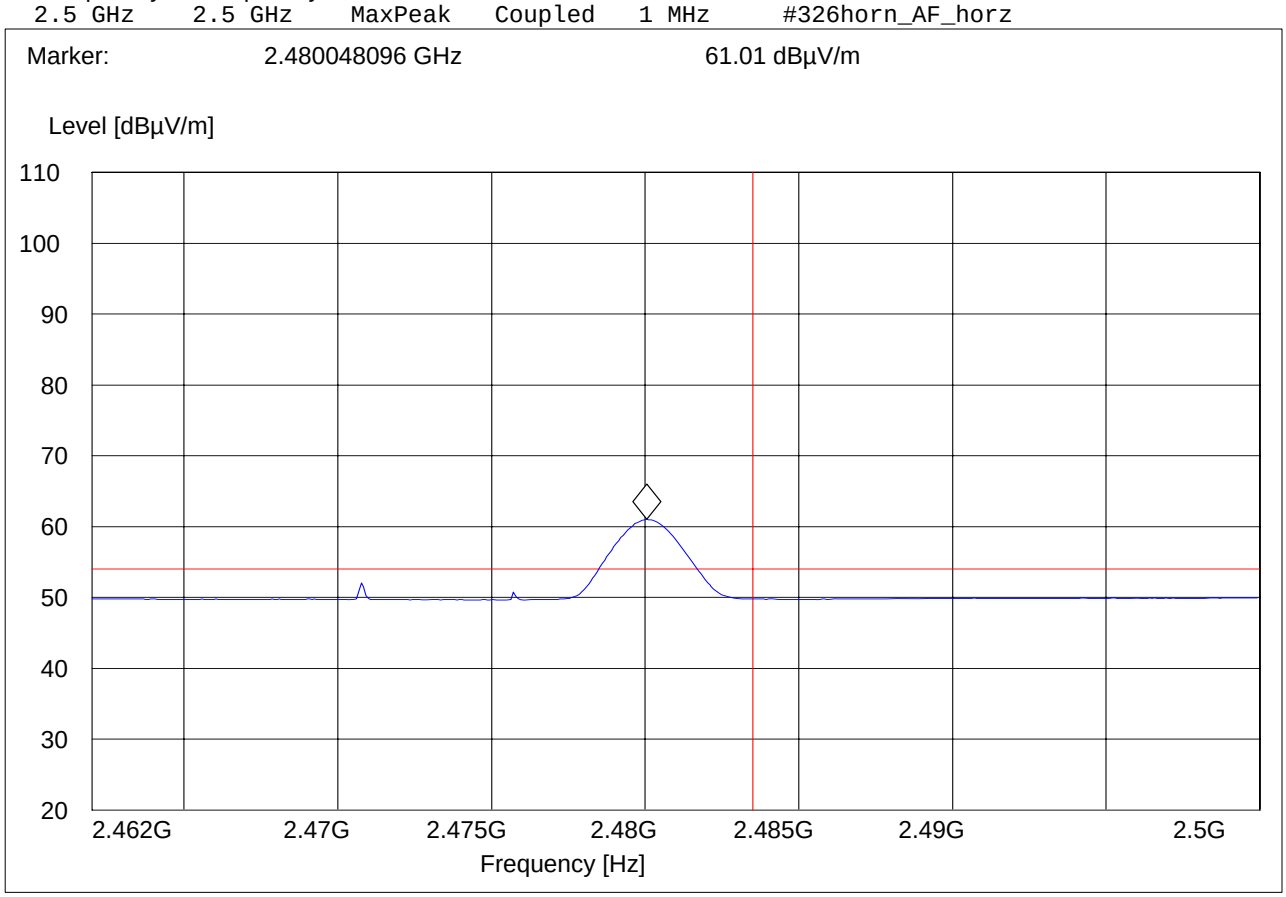
AVG

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT
Antenna:           H
EUT:               V
Test Engineer:     PETER
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 HBE_PK
```

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz



5.3 TRANSMITTER SPURIOUS EMISSIONS RADIATED § 15.247/15.205/15.209

5.3.1 LIMITS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

***PEAK LIMIT= 74dBuV/m**
***AVG. LIMIT= 54dBuV/m**

NOTE:
1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.

2. All measurements are done in peak mode using an average limit , unless specified with the plots.

Results for the radiated measurements below 30MHz according § 15.33

Frequency	Measured values	Remarks
9KHz – 30MHz	No emissions found, caused by the EUT	This is valid for all the tested channels

5.3.2 RESULTS

30MHz – 1GHz

Antenna: vertical

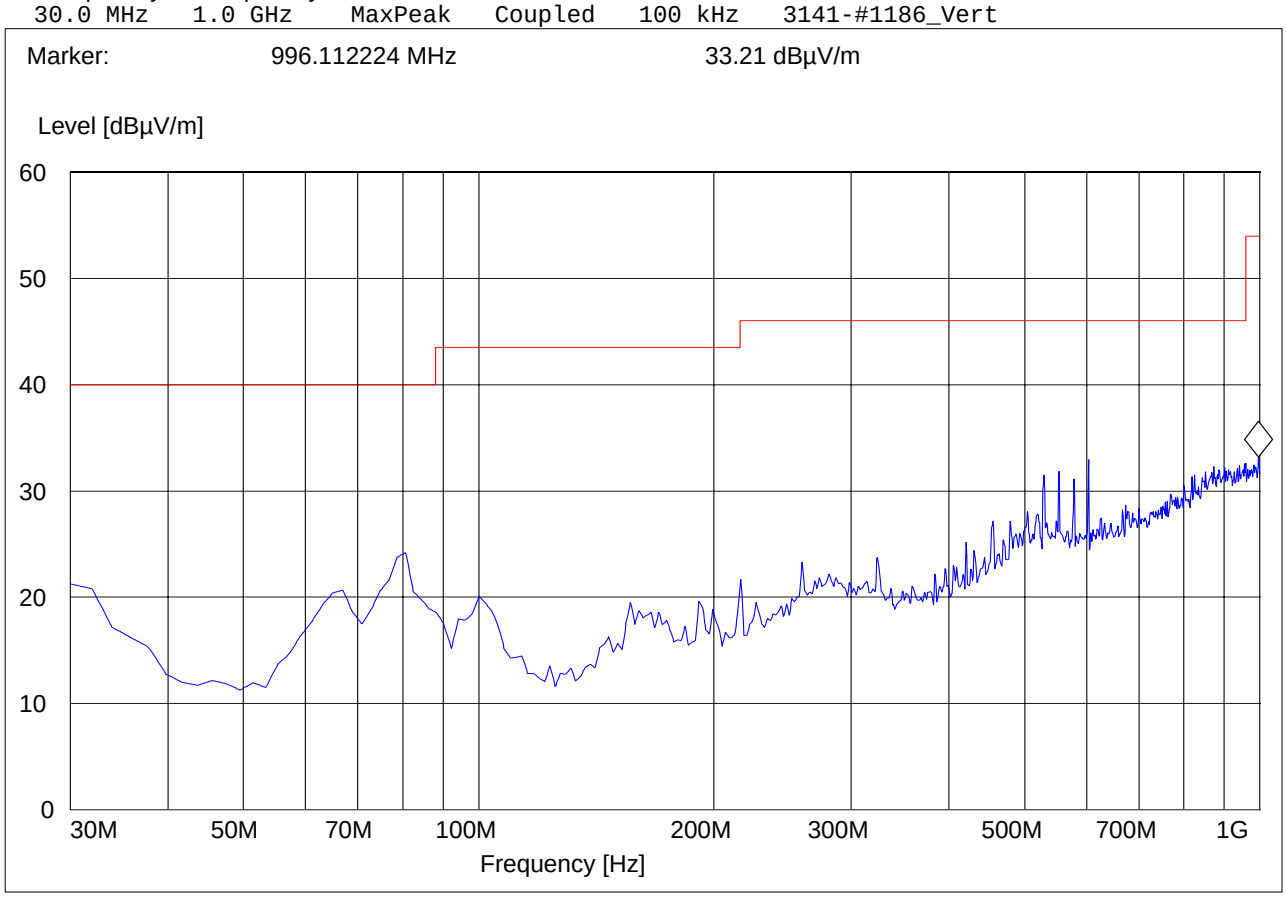
Note: This plot is valid for low, mid, high channels (worst-case plot)

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2441 MHz
Antenna:           V
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247_30M_1G_Ver
```

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert



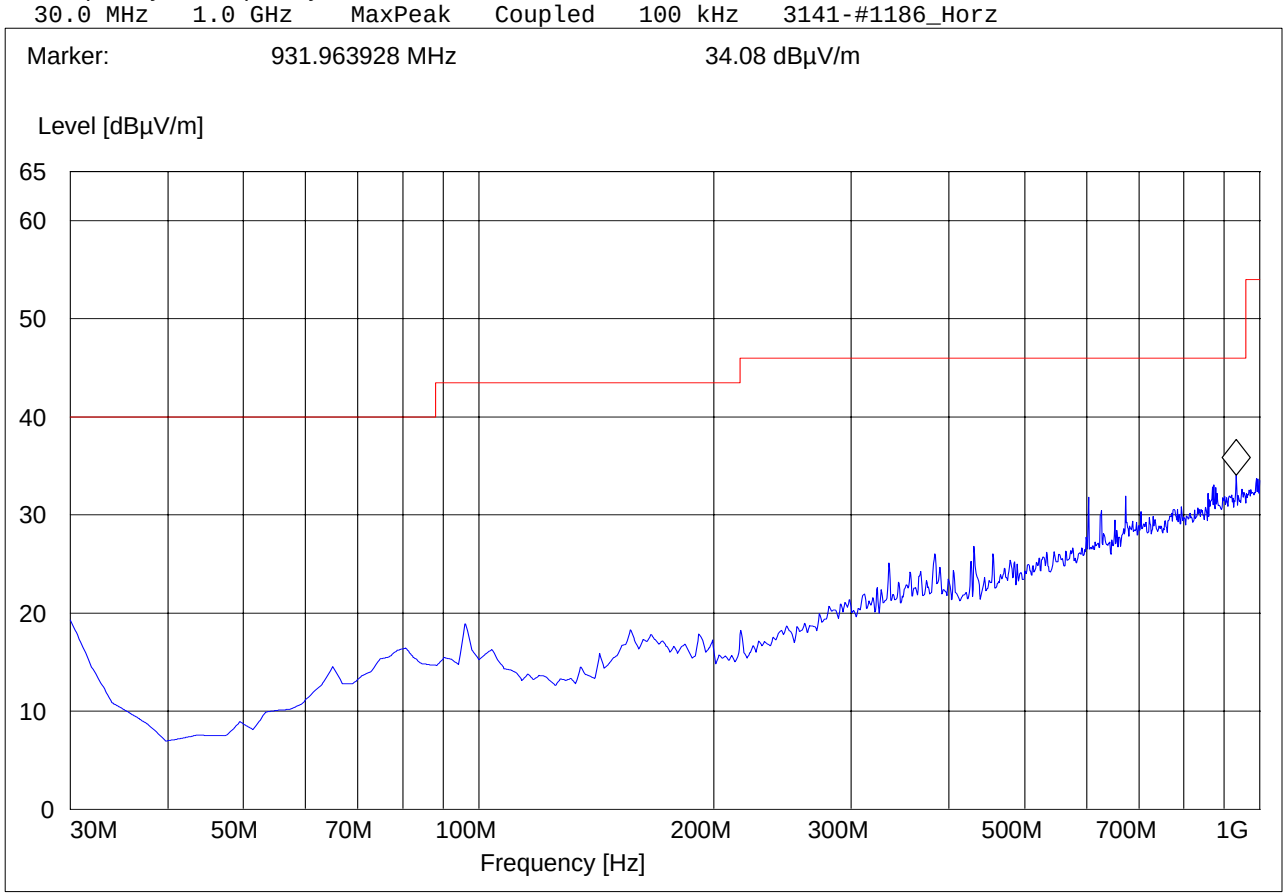
30MHz – 1GHz
Antenna: horizontal
Note: This plot is valid for low, mid, high channels (worst-case plot)

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2480 MHz
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247_30M_1G_Hor
```

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz



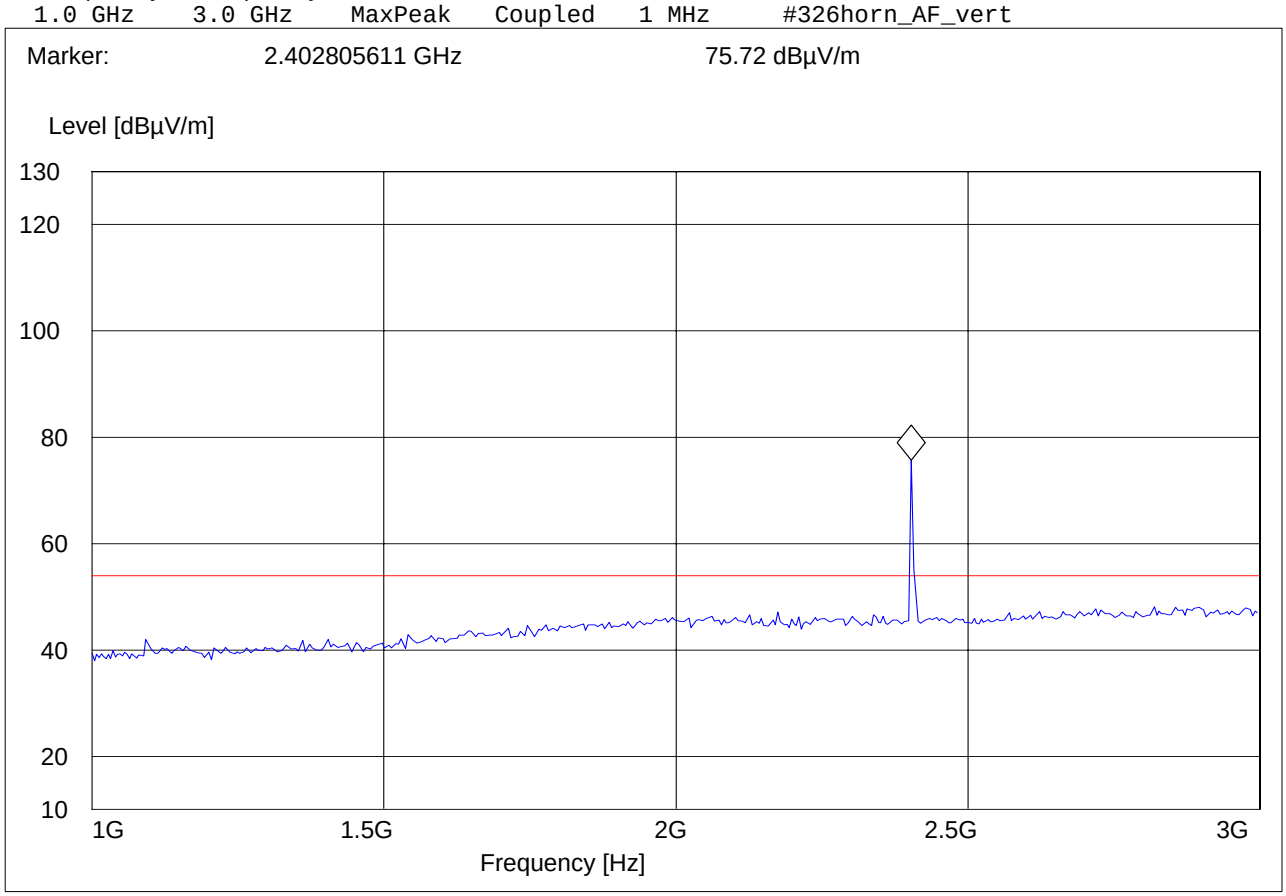
1-3GHz (2402MHz)
Note: The peaks above the limit line is the carrier freq.
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2402 MHz; PEAK MARKED IS TX SIGNAL
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 1-3G
```

SWEEP TABLE: "FCC15.247_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



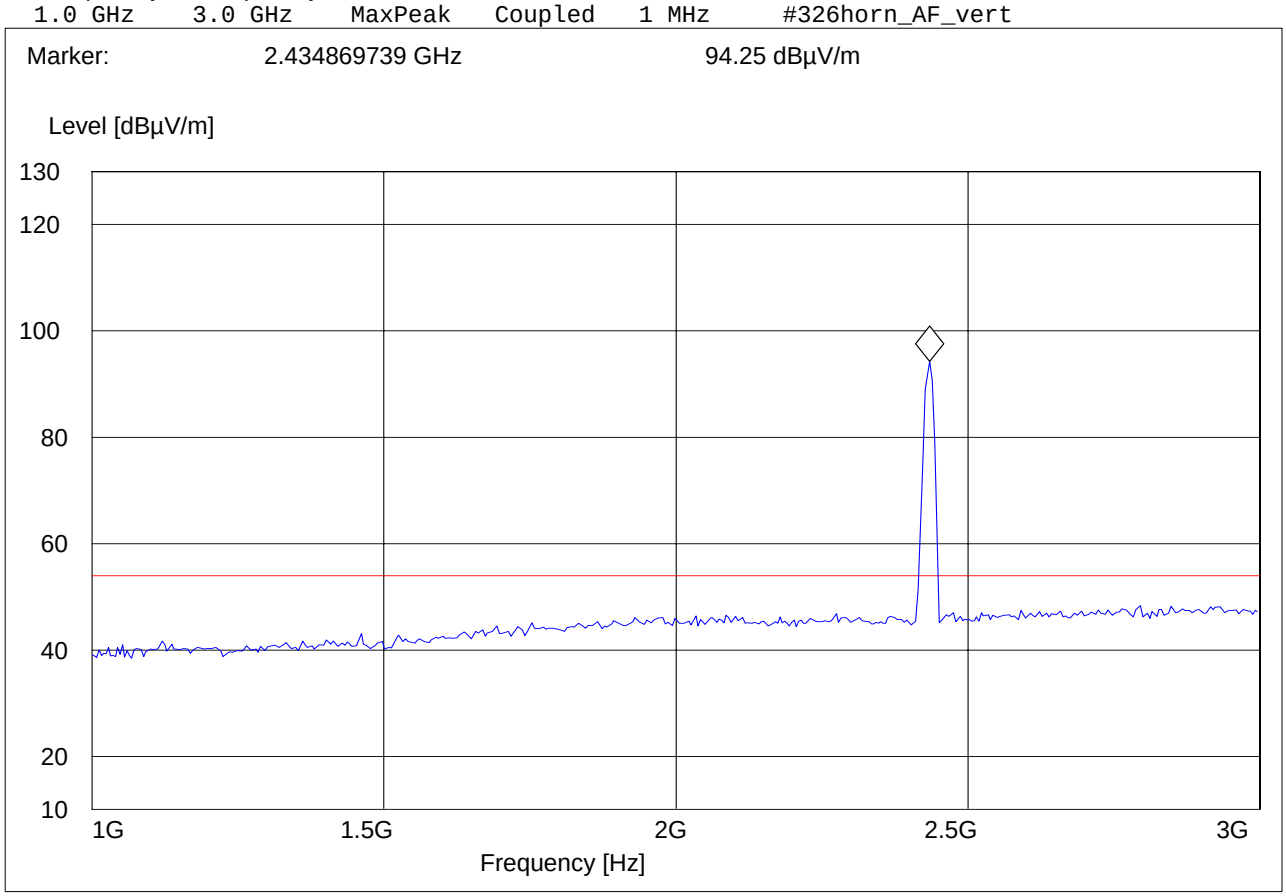
1-3GHz (2441MHz)
Note: The peaks above the limit line is the carrier freq.
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; PEAK MARKED IS TX SIGNAL
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 1-3G
```

SWEEP TABLE: "FCC15.247_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



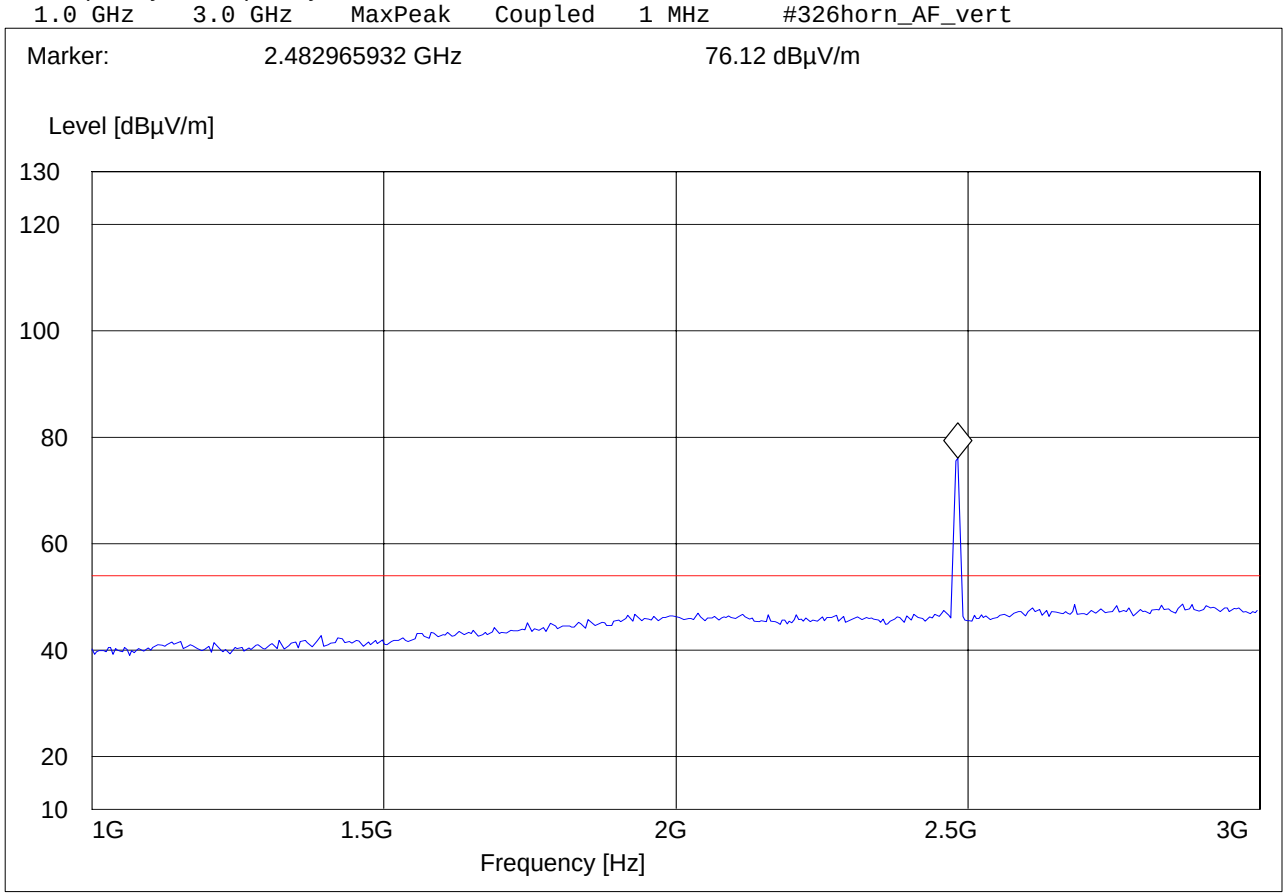
1-3GHz (2480MHz)
Note: The peaks above the limit line is the carrier freq.
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT ; PEAK MARKED IS TX SIGNAL
Antenna:           H
EUT:               V
Test Engineer:     PETER
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 1-3G
```

SWEEP TABLE: "FCC15.247_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



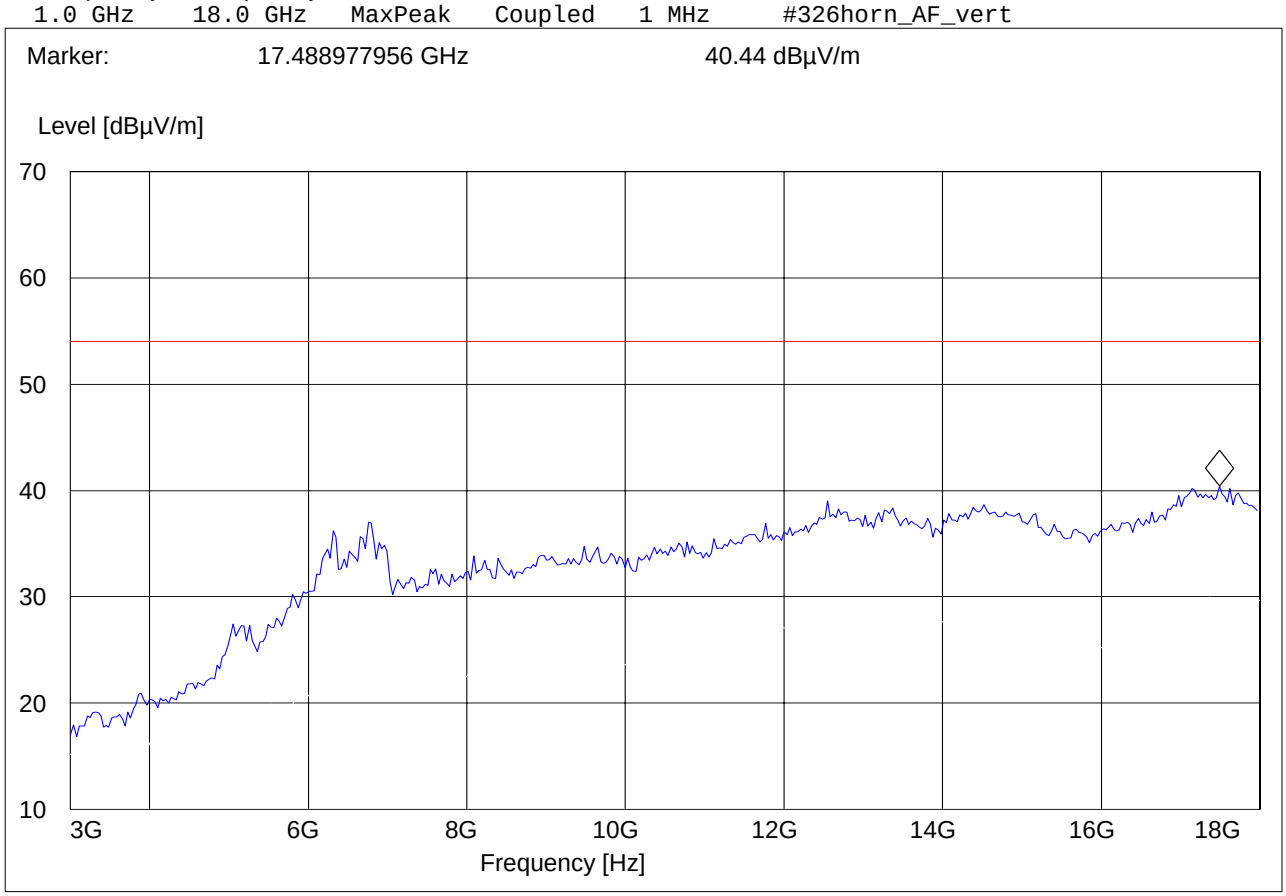
3-18GHz (2402MHz)
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2402 MHz
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 3-18G
```

SWEEP TABLE: "FCC15.247_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



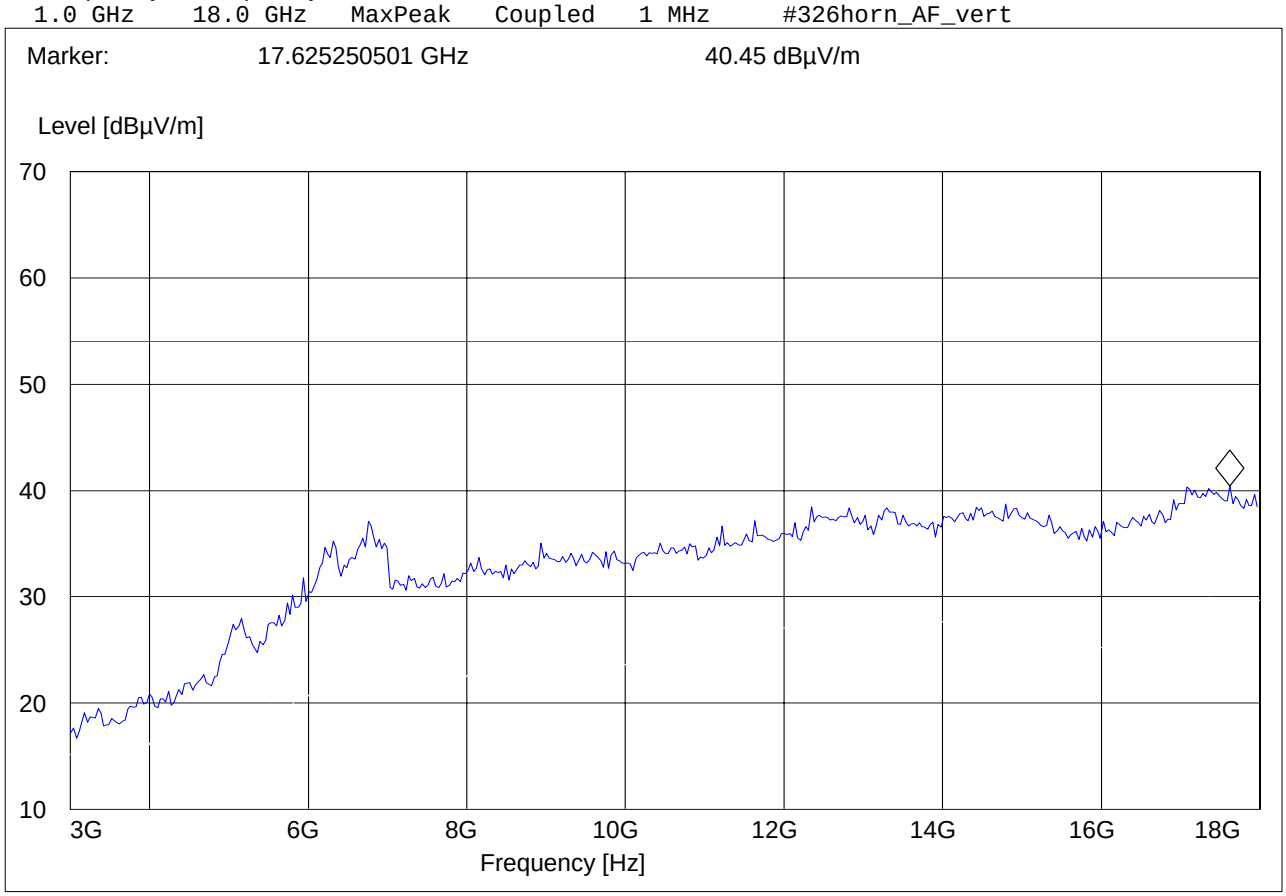
3-18GHz (2441MHz)
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2441 MHz
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 3-18G
```

SWEEP TABLE: "FCC15.247_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



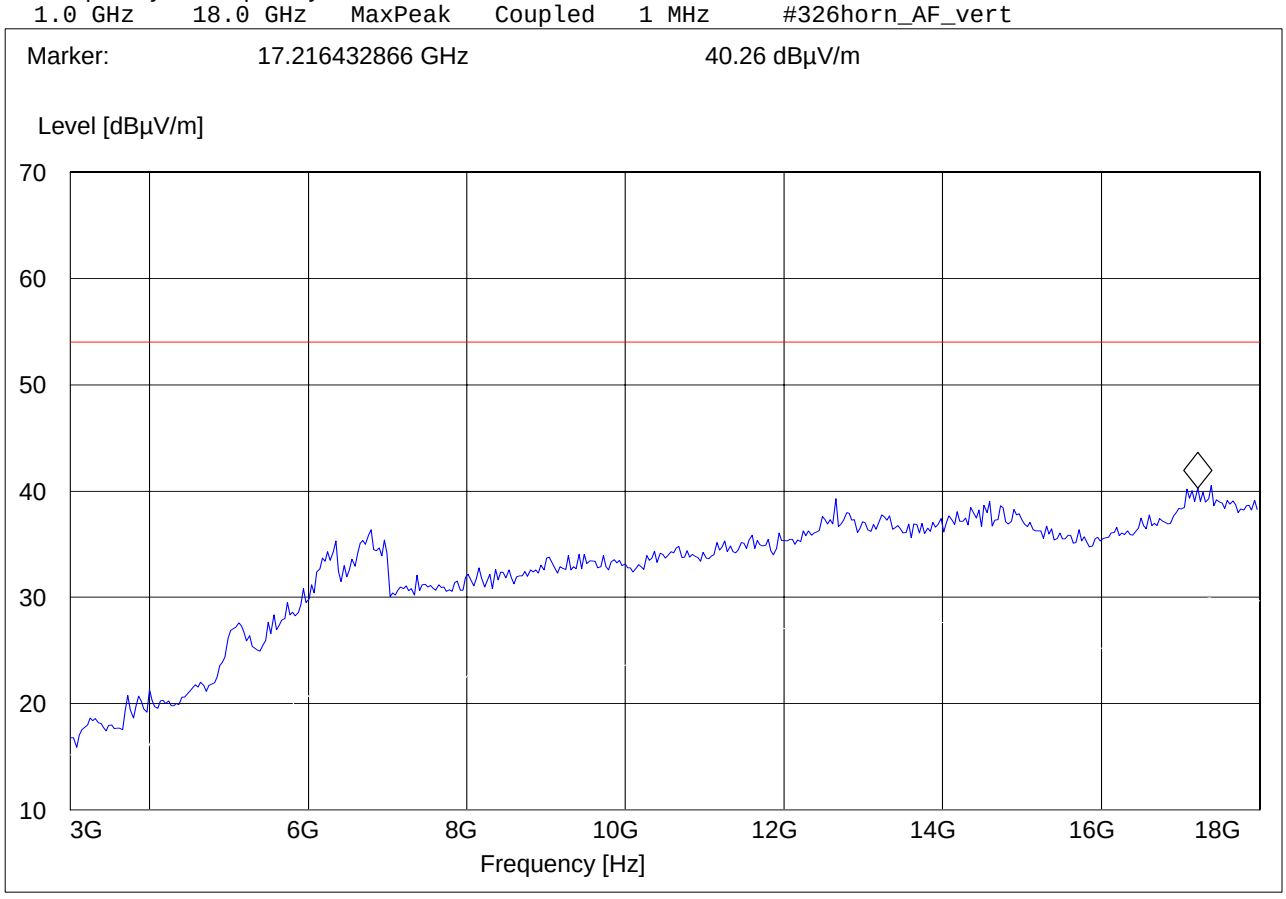
3-18GHz (2480MHz)
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT
Antenna:           H
EUT:               V
Test Engineer:     PETER
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247 3-18G
```

SWEEP TABLE: "FCC15.247_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



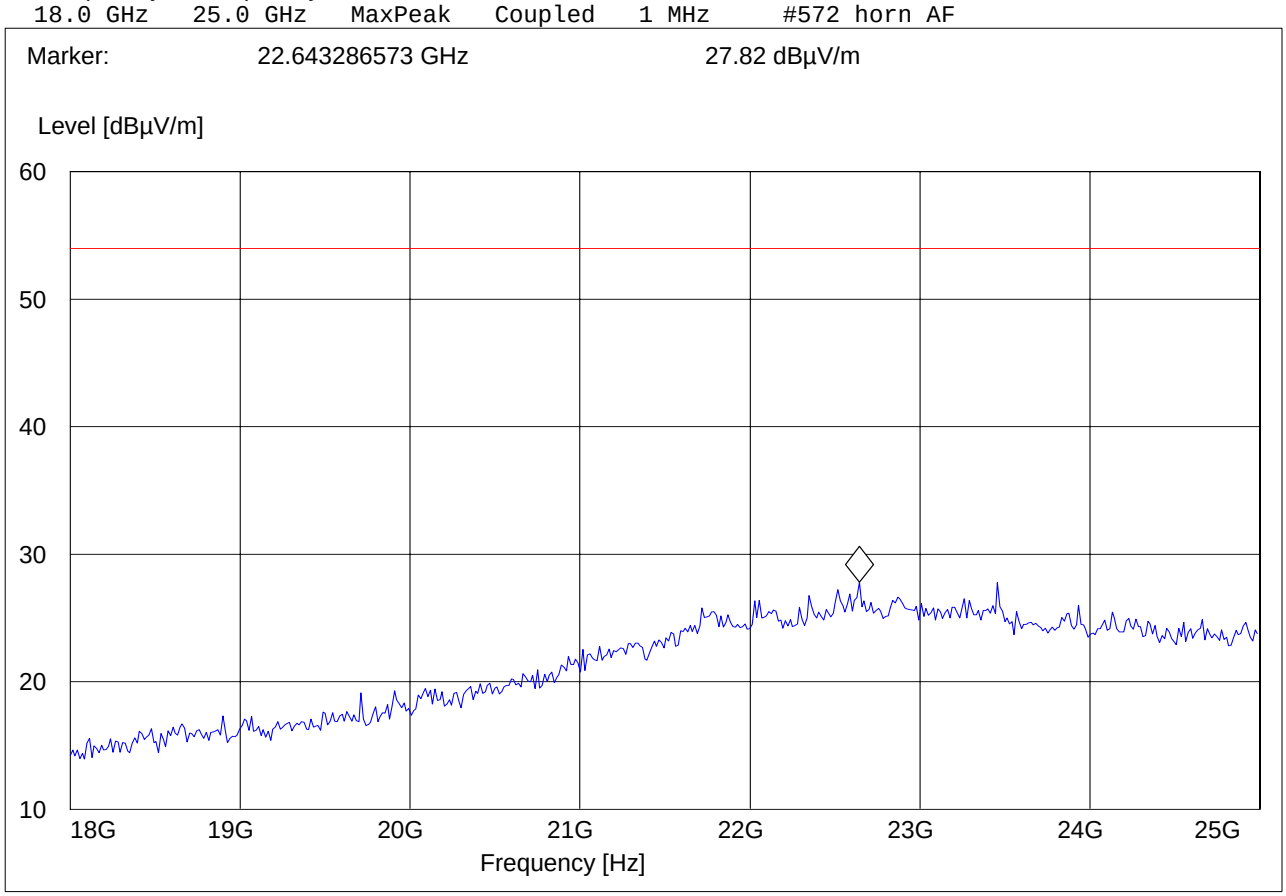
18-25GHz
Note: This plot is valid for low, mid, high channels (worst-case plot)
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2441 MHz
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             FCC15.247_18-26.5G_Hor
```

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	25.0 GHz	MaxPeak	Coupled	1 MHz	#572 horn AF



5.4 RECEIVER SPURIOUS RADIATION § 15.209/RSS210

5.4.1 LIMITS

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	2400/F (kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

NOTE:
1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.

2. All measurements are done in peak mode using a quasi peak or average limit , unless specified with the plots.

5.4.2 RESULTS

30MHz – 1GHz

Antenna: horizontal

Note: This plot is valid for all polarizations and low, mid, high channels (worst-case plot)

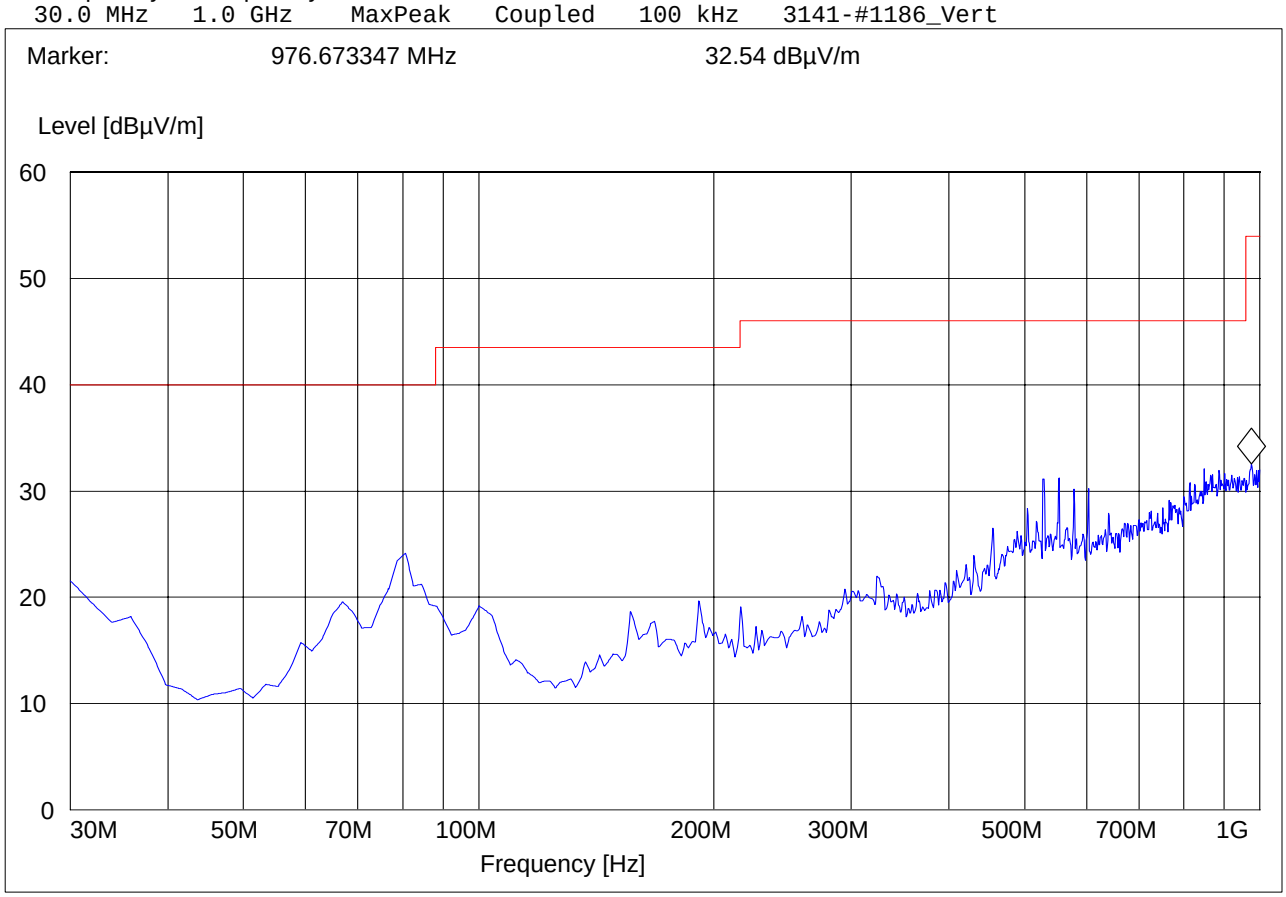
Note: Peak Reading vs. Quasi-peak limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2402 MHz
Antenna:           V
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             CANADA RE_30M-1G_Ver
```

SWEEP TABLE: "CANADA RE_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert



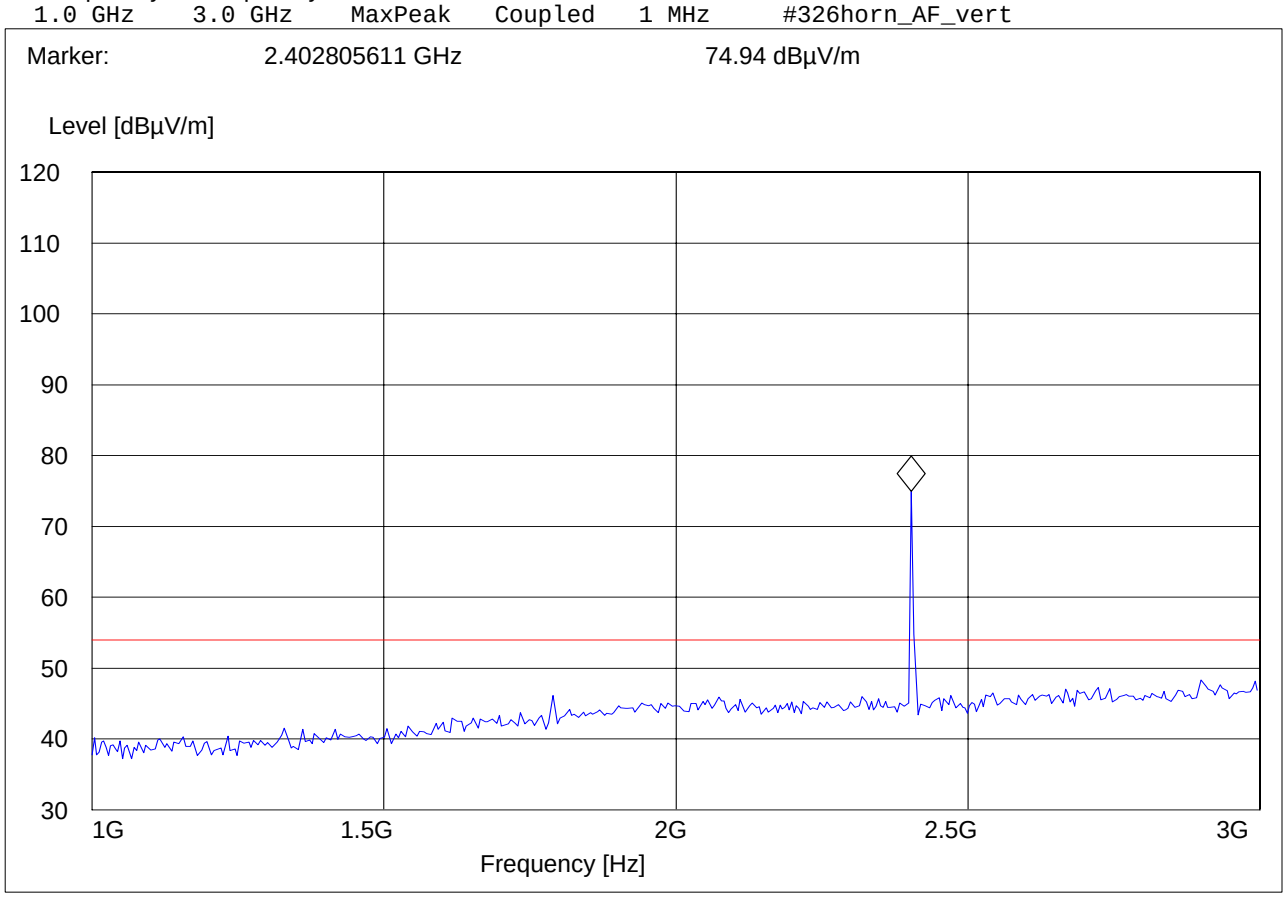
1-3GHz
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2402 MHz
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             CANADA RE_1-3G
```

SWEEP TABLE: "CANADA RE_1-3G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



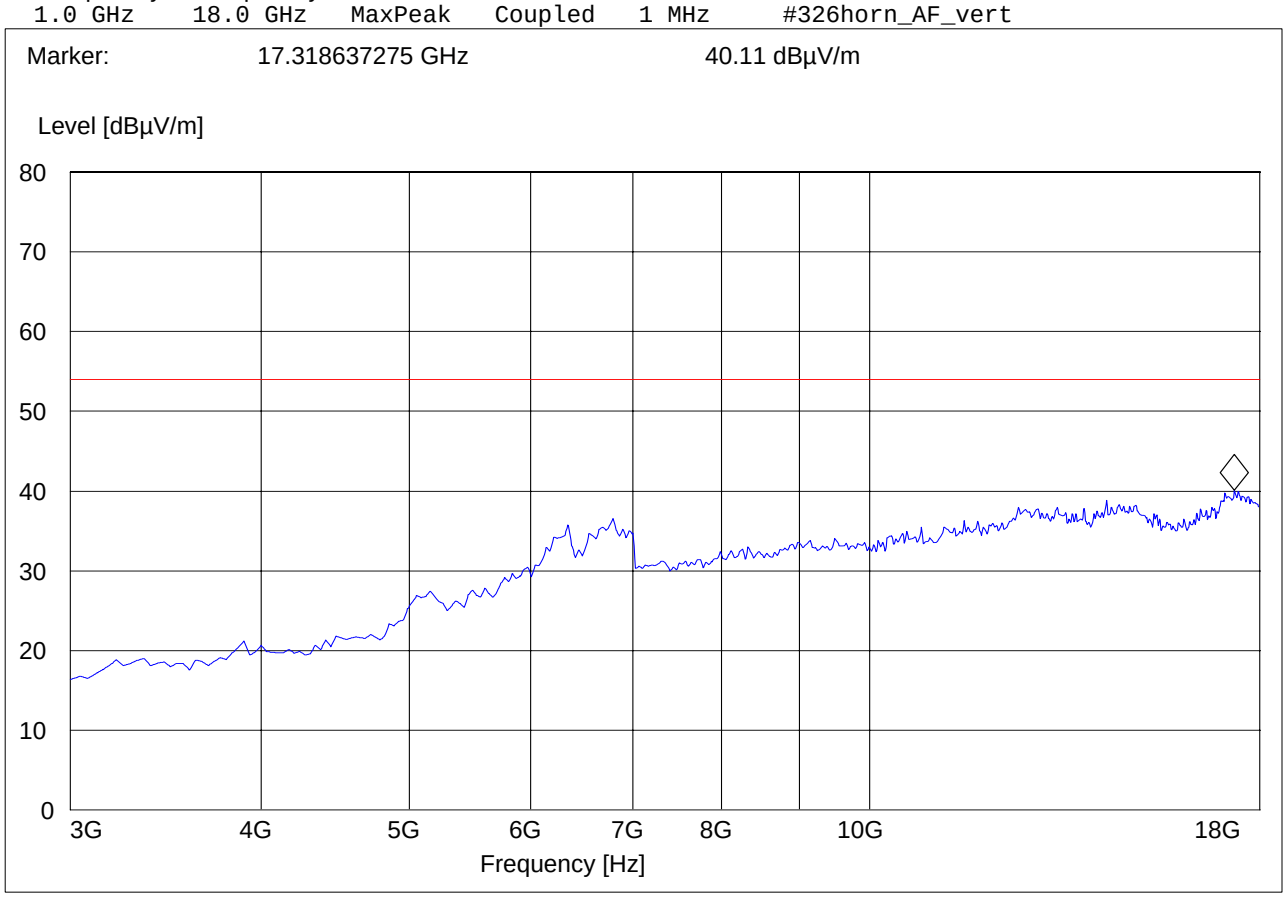
3-18GHz
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2402 MHz
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             CANADA RE_3-18G
```

SWEEP TABLE: "CANADA RE_3-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



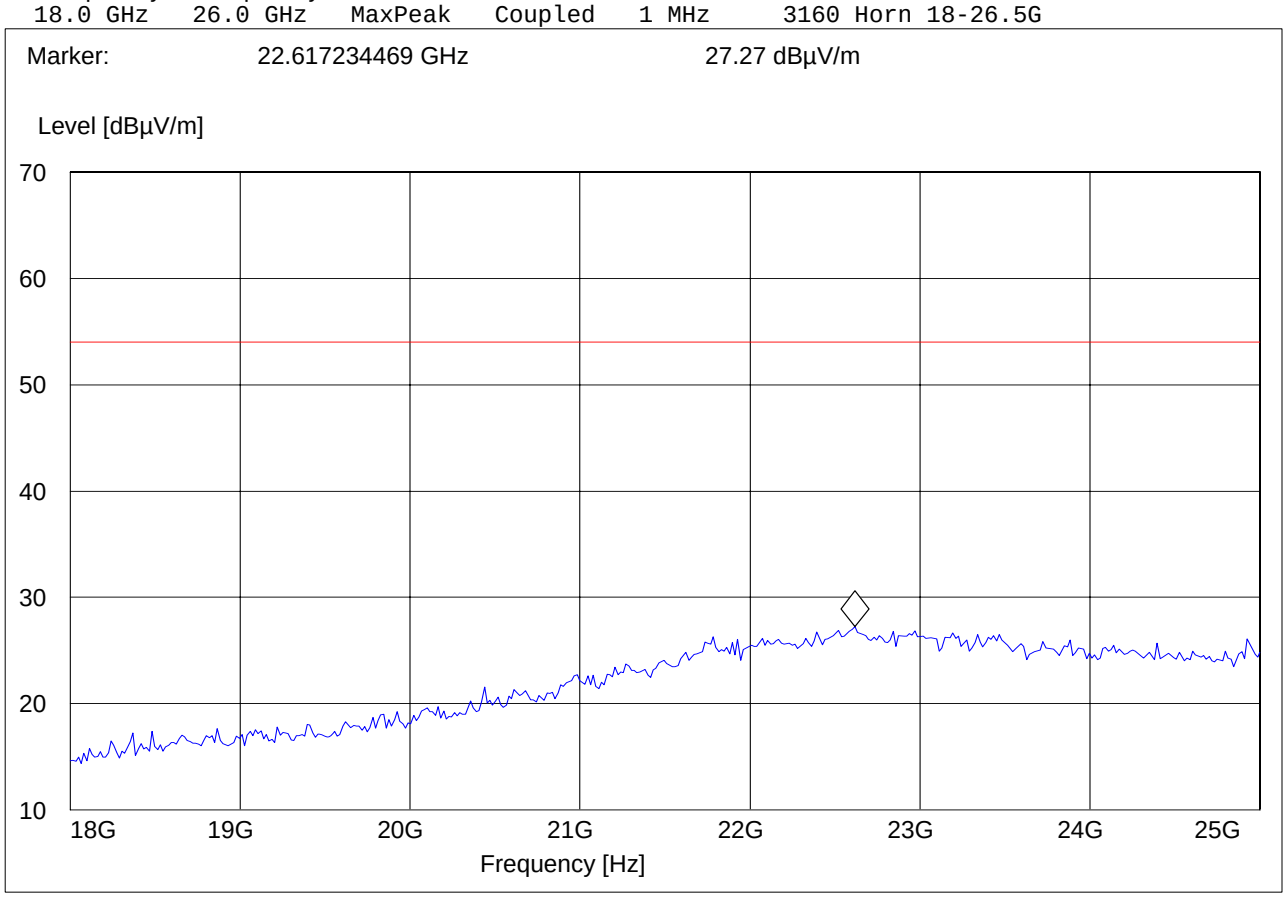
18-25GHz
Note: Peak Reading vs. Average limit

CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA

```
EUT / Description: XPLOR_005_06002_BT_replacement_NA
Customer:          XPLORER
Operating Mode:    BT; 2402 MHz
Antenna:           H
EUT:               V
Test Engineer:     SATYA
Voltage:           AC Adaptor  (UNIT #2)
Sweep:             CANADA RE_18-26.5G
```

SWEEP TABLE: "CANADA RE_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.0 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 18-26.5G



5.5 AC POWER LINE CONDUCTED EMISSIONS § 15.107/207

5.5.1 LIMITS

Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)
Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50
* Decreases with logarithm of the frequency		

ANALYZER SETTINGS: RBW = 10KHz VBW = 10KHz

5.5.2 RESULTS

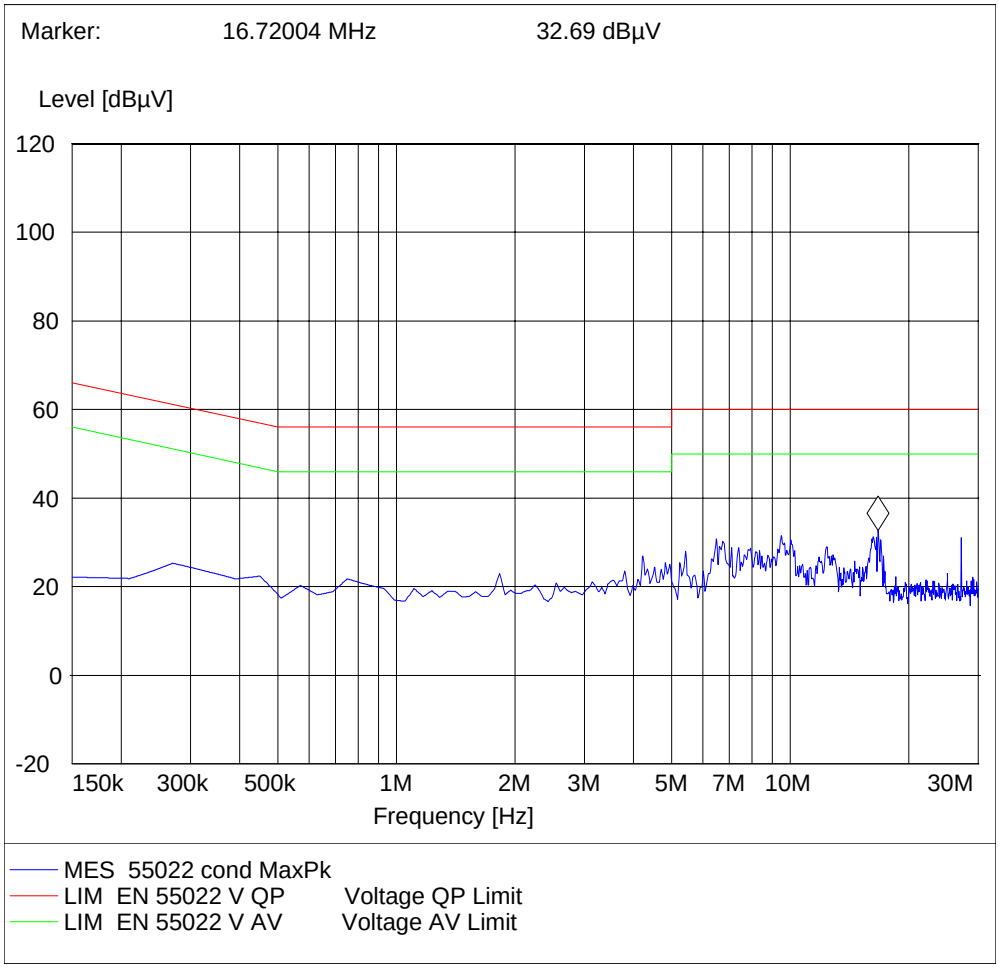
LISN

CETECOM INC., 411 Dixon Landing Road, CA 95035

```
EUT / Description: BT/ iX104C3
Manufacturer:      Xplore
Test mode:         TX 2402
Test Engineer:     Satya
Phase:             L & N
Comment:           120 volt
```

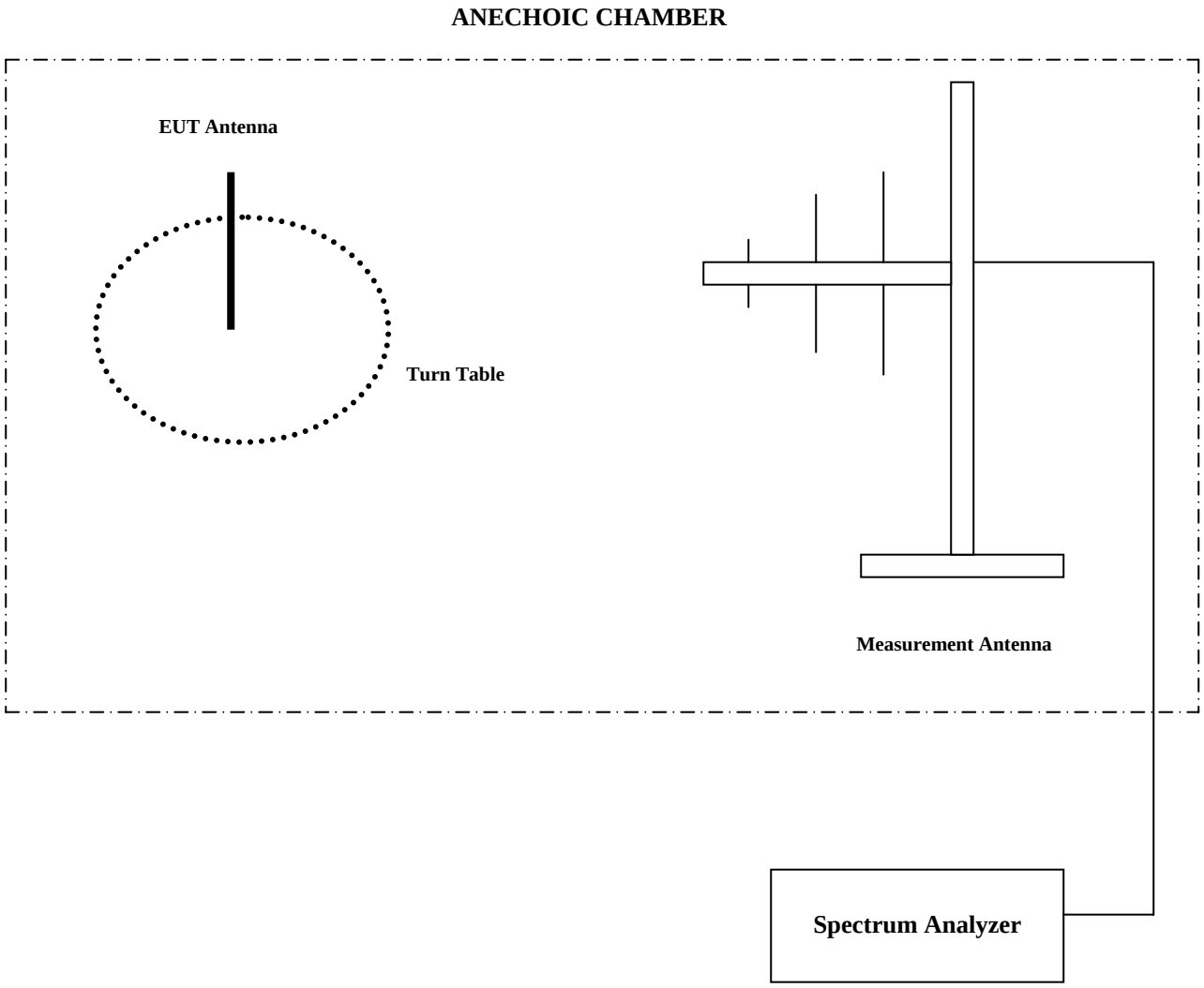
SWEEP TABLE: "55022 cond"

```
Short Description:            EN 55022 for 150KHz-30MHz
Start      Stop       Detector  Meas.     IF        Transducer
Frequency  Frequency            Time      Bandw.
150.0 kHz  30.0 MHz   MaxPeak   Coupled   10 kHz    None
```



6 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Cal Due	Interval
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2007	1 year
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	100017	August 2007	1 year
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011	May 2007	1 year
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02	May 2007	1 year
05	Biconilog Antenna	3141	EMCO	0005-1186	June 2007	1 year
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325	June 2007	1 year
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240	June 2007	1 year
08	Power Splitter	11667B	Hewlett Packard	645348	n/a	n/a
09	Climatic Chamber	VT4004	Voltsch	G1115	May 2007	1 year
10	High Pass Filter	5HC2700	Trilithic Inc.	9926013	n/a	n/a
11	High Pass Filter	4HC1600	Trilithic Inc.	9922307	n/a	n/a
12	Pre-Amplifier	JS4-00102600	Miteq	00616	May 2007	1 year
13	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807	May 2007	1 year
14	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008	May 2007	1 year
15	Universal Radio Comm. Tester	CMU 200	Rohde & Schwarz	832221/06	May 2007	1 year
16	LISN	ESH3-Z5	Rohde & Schwarz	836679/003	May 2007	1 year
17	Loop Antenna	6512	EMCO	00049838	July 2007	2 years

7 BLOCK DIAGRAMS

Radiated Testing