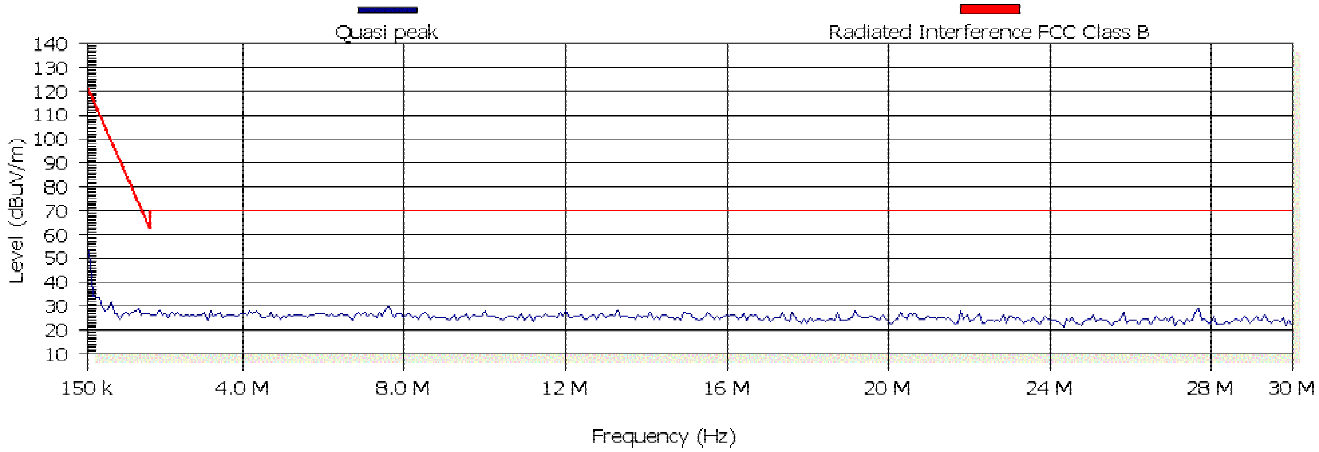
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Vertical



Plot / 199

EUT File:
N:\COMMON\WAVE-IP-n\GigAccess900H\Mode 900A-continue.EUT
Order Number:

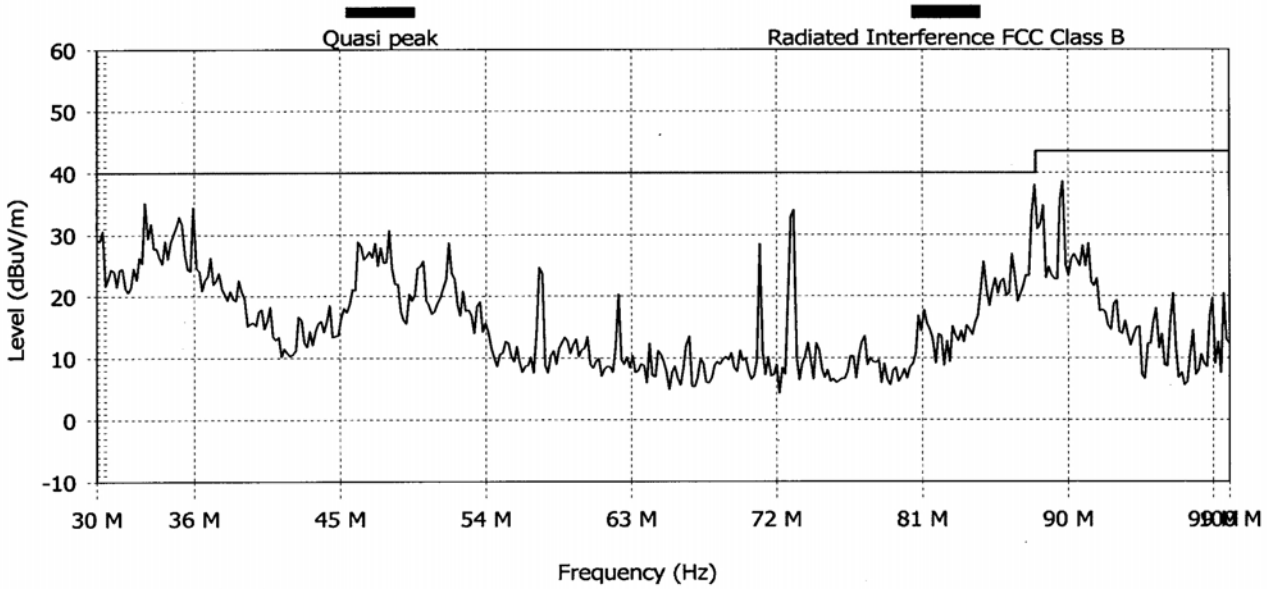
EUT
Name: GigAccess 900 mode A
Serial Number:

Client
Name: WAVEIP
Contact Person: Yoram Singer

Radiated Emission

Description: 12) FCC 15.205 RESTRICTED 30-100MHz 907 8dbi omni
From 30 MHz to 100 MHz

Graph:



Detected Peaks:

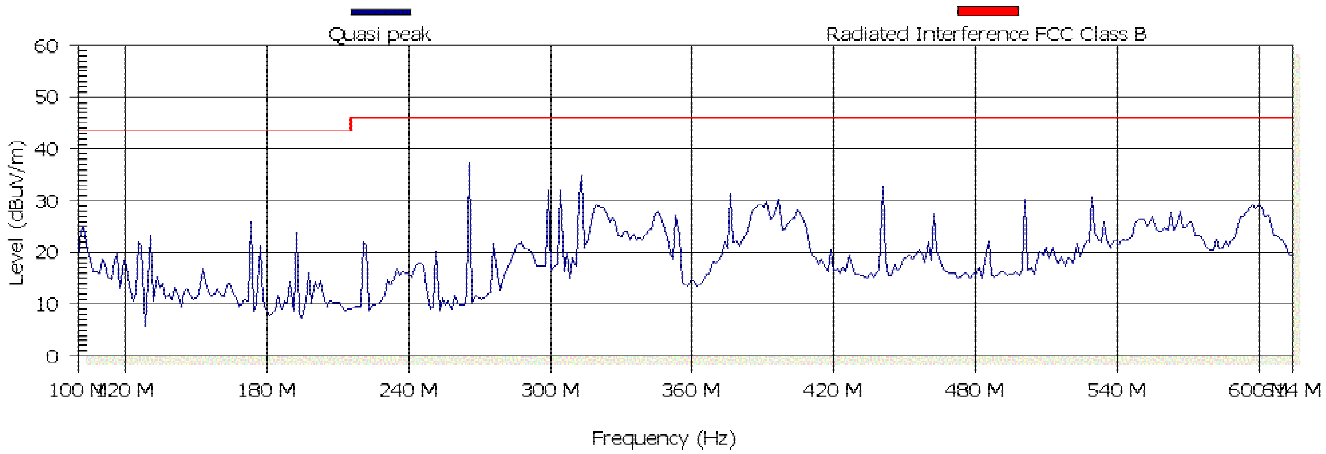
Nr	Frequency (MHz)	Type	PK (dBuV/m)	QP (dBuV/m)	QP Limit (dBuV/m)	QP Diff (dBuV/m)	QP Pass	Pass	Angle (degrees)	Height (m)	H/V
1	73.05	Disc. BB	34.0	22.2	40.0	-17.8	Pass	Pass	300	1	V
2	32.975	Cont. BB	35.2	26.7	40.0	-13.3	Pass	Pass	240	1.65	H
3	35.028	Disc. BB	33.7	32.7	40.0	-7.3	Pass	Pass	180	1.65	V
4	35.95	Disc. BB	34.4	26.5	40.0	-13.5	Pass	Pass	0	1.65	H
5	88.004	Disc. NB	38.7	38.1	43.5	-5.4	Pass	Pass	240	1	V
6	89.695	Disc. NB	38.9	38.6	43.5	-4.9	Pass	Pass	240	1	V

Settings:
Antenna: Both Polarizations at 3.0 m
Ref. Level: 90.0 dBuV/m Att: 0 dB. RBW: 120 kHz. VBW: 1000 kHz. Sweep time: 20 ms.
Detect all peaks above 8 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

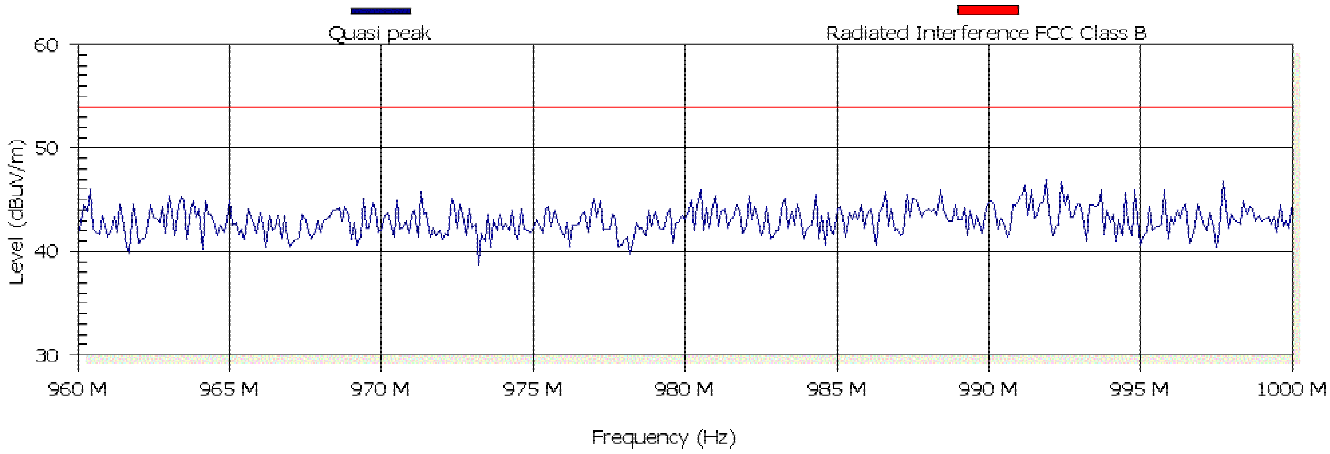
Plot / 200

Analyzer setting: RBW-120K, VBW-1MHz, QP detector



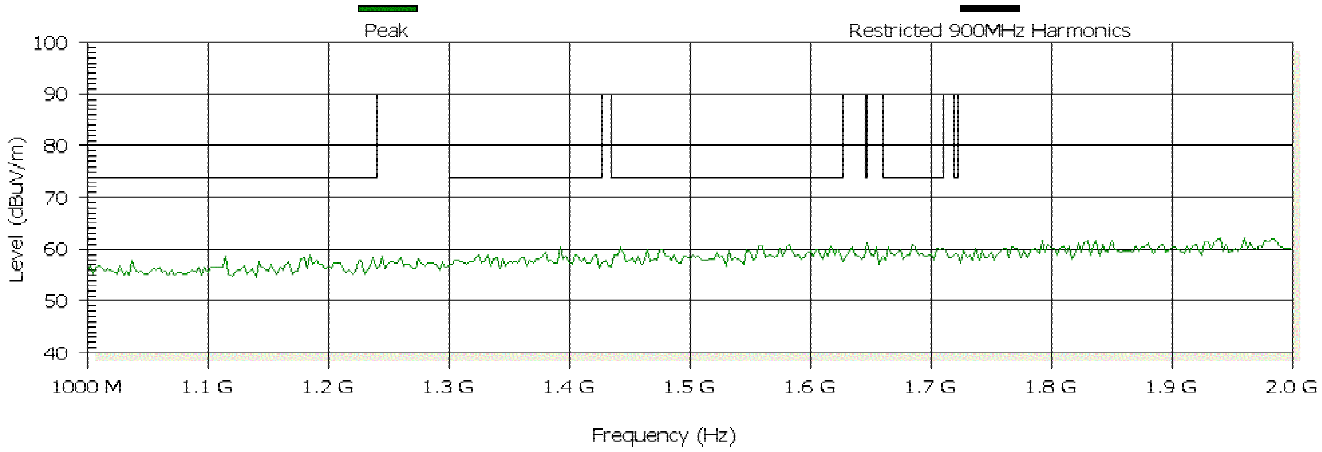
Plot / 201

Analyzer setting: RBW-120K, VBW-1MHz, QP detector



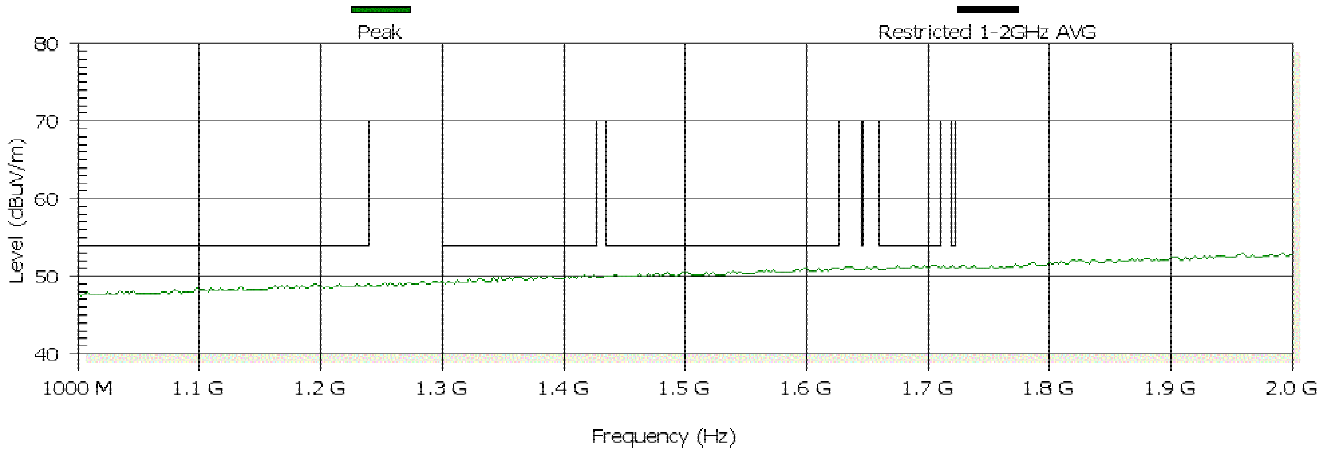
Plot / 202

Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



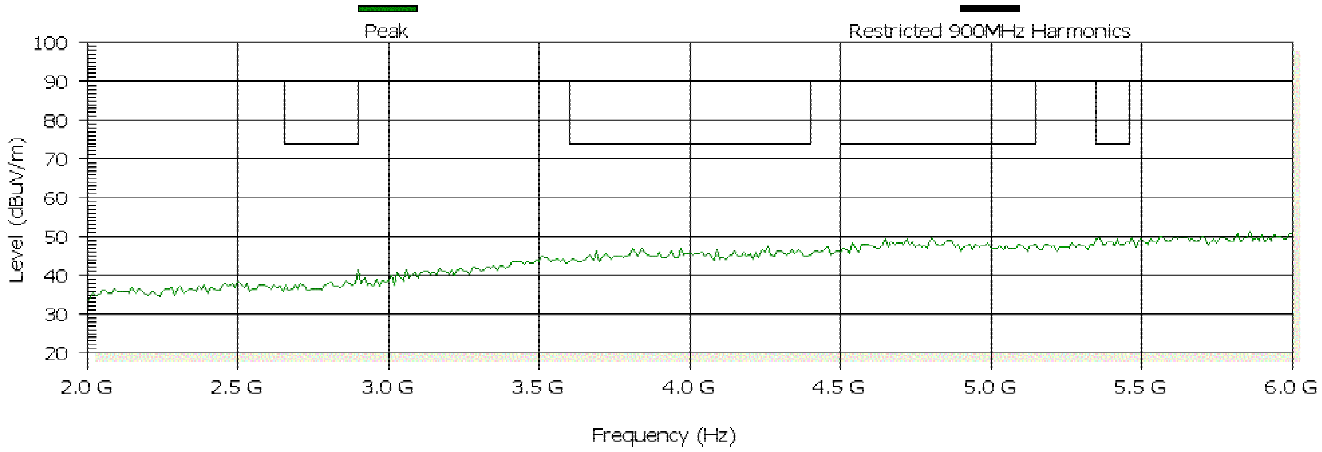
Plot / 203

Analyzer setting: RBW-10KHz, VBW-3MHz, average



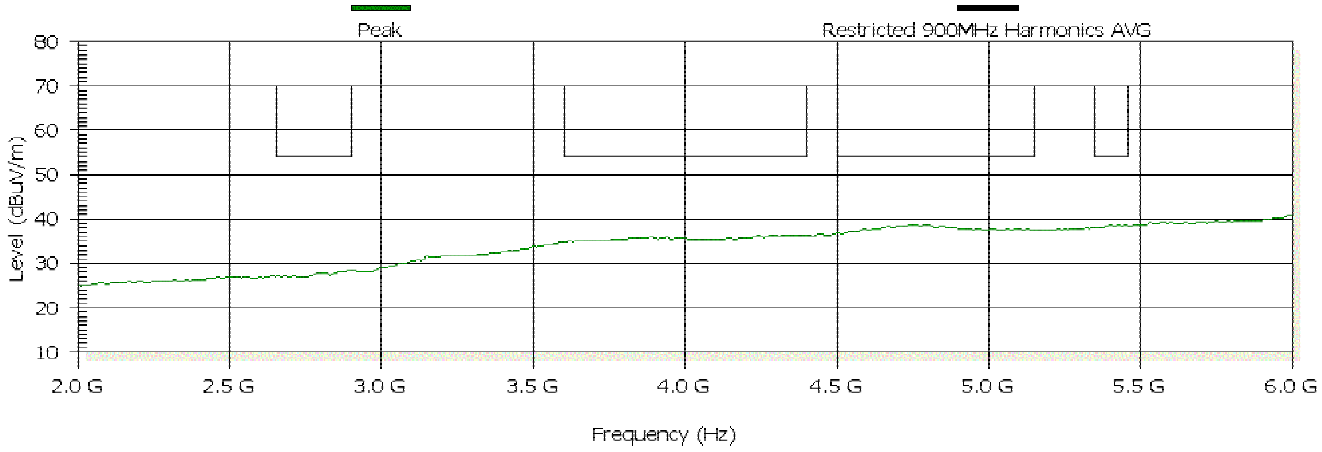
Plot /204

Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



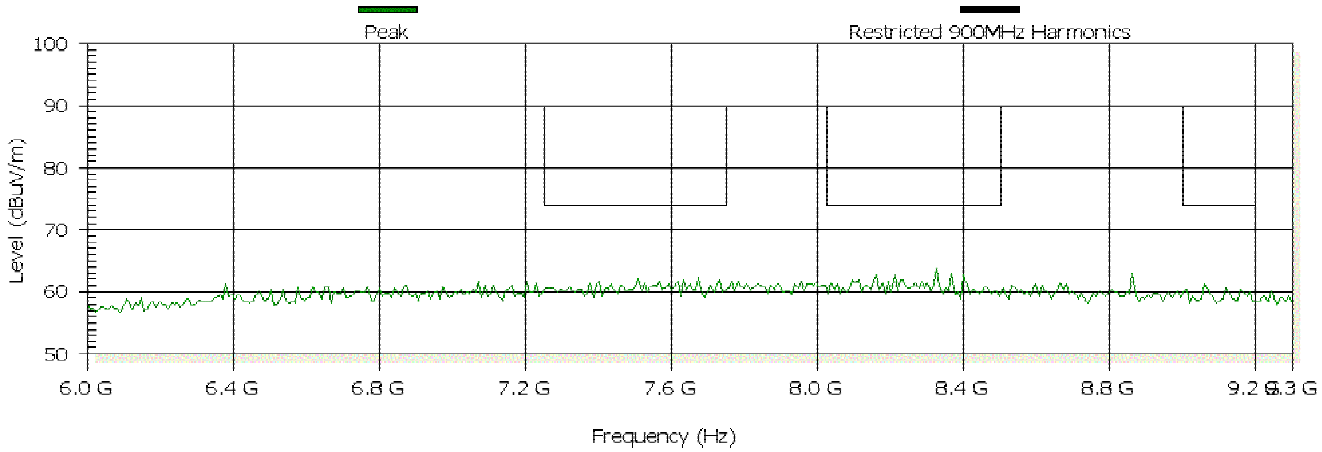
Plot / 205

Analyzer setting: RBW-10KHz, VBW-3MHz, average



Plot / 206

Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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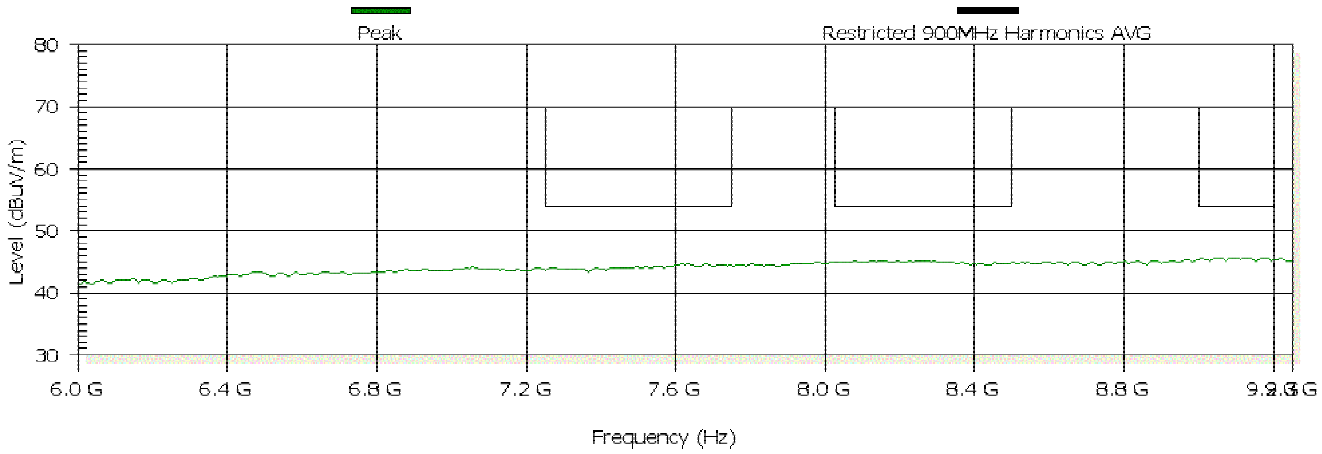
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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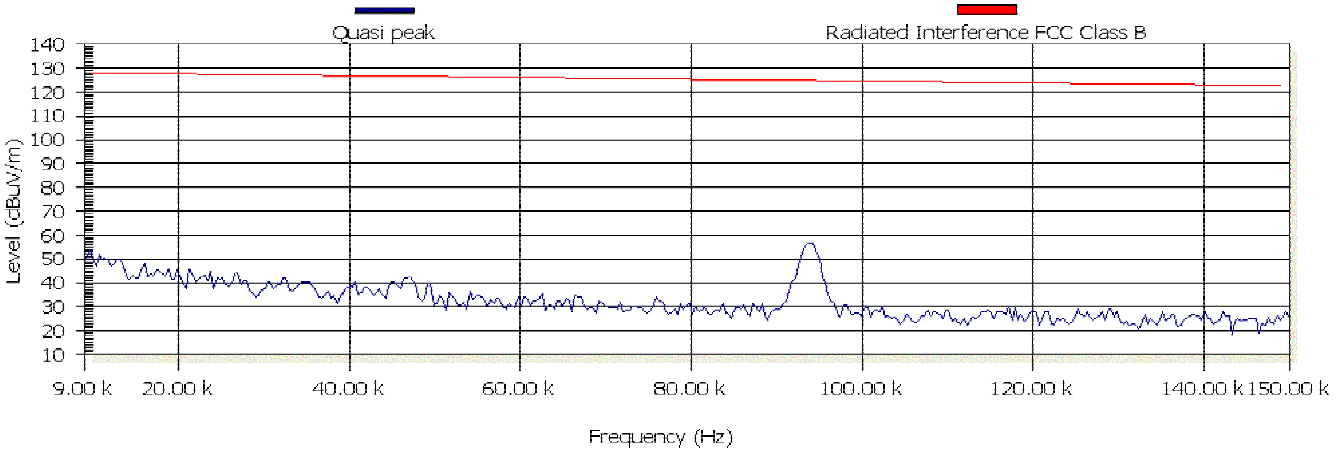
(15) **Transmit Frequency 915MHz for 8dbi sq extern GA_900A mode**

Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Horizontal



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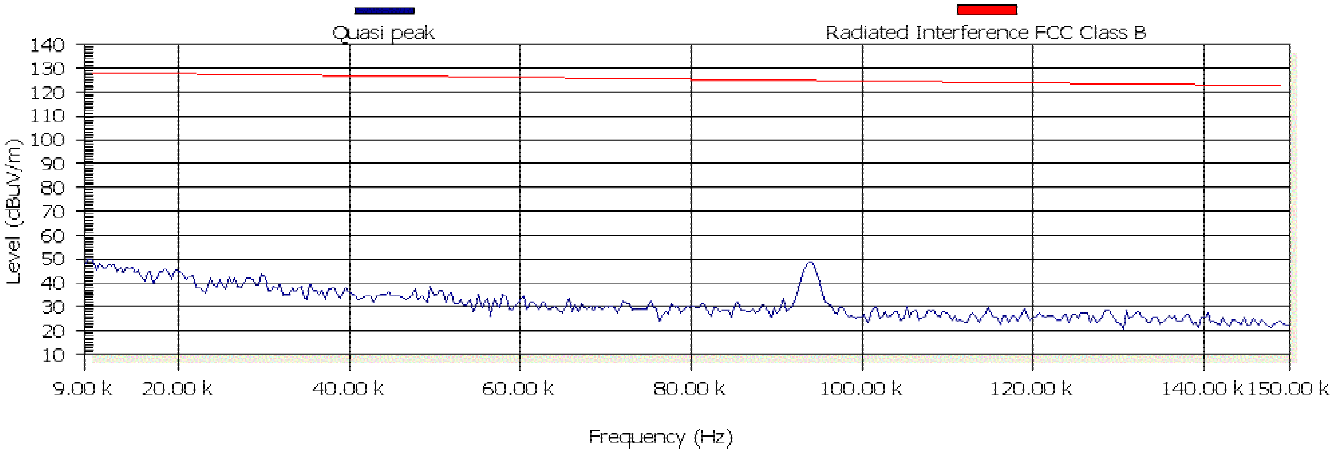
Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Vertical



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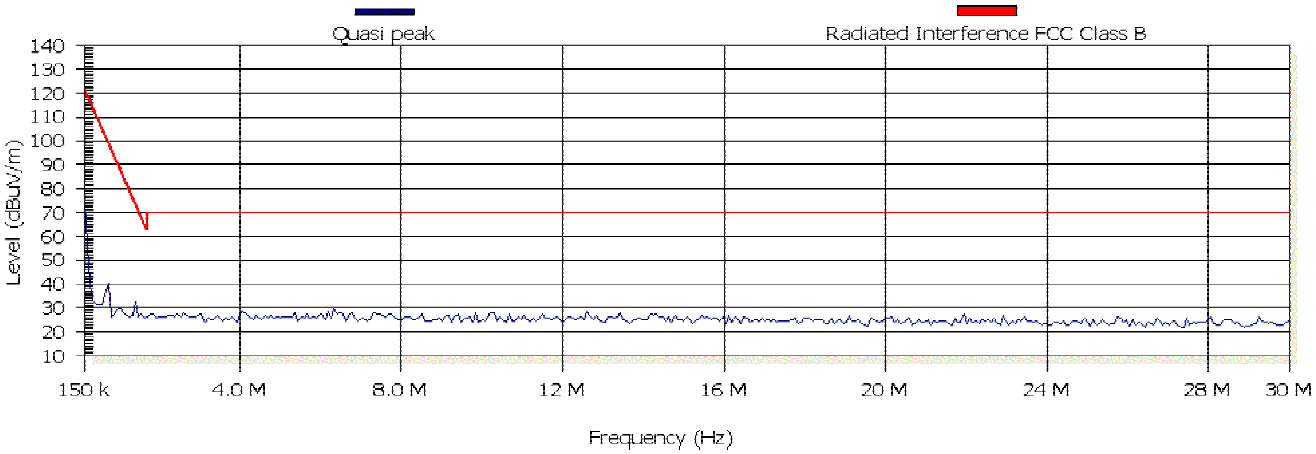
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Horizontal



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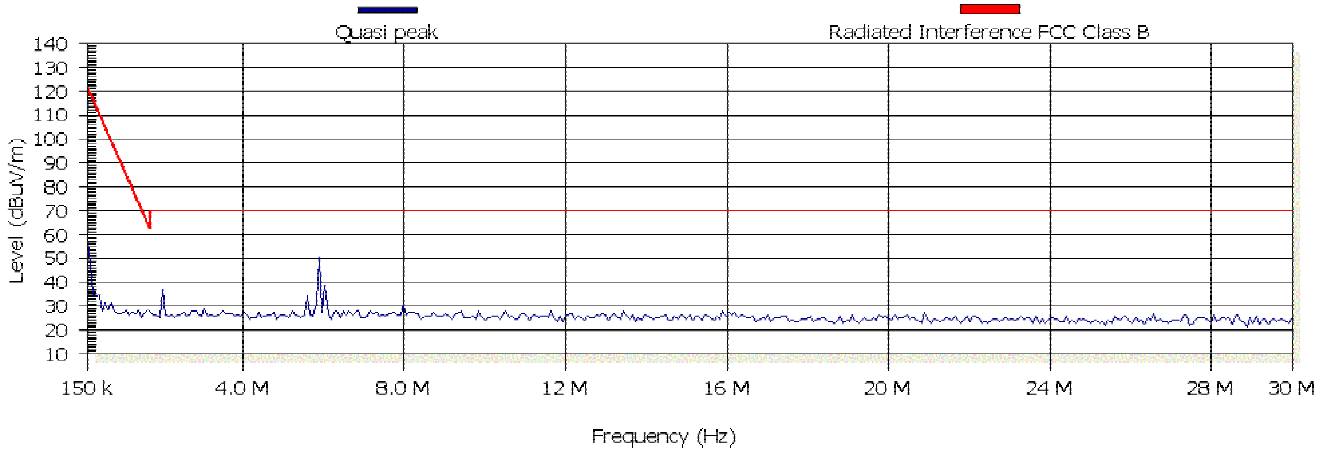
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Vertical



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EUT File:
N:\COMMON\WAVE-IP-n\GigAccess900H\Mode 900A-continue.EUT
Order Number:

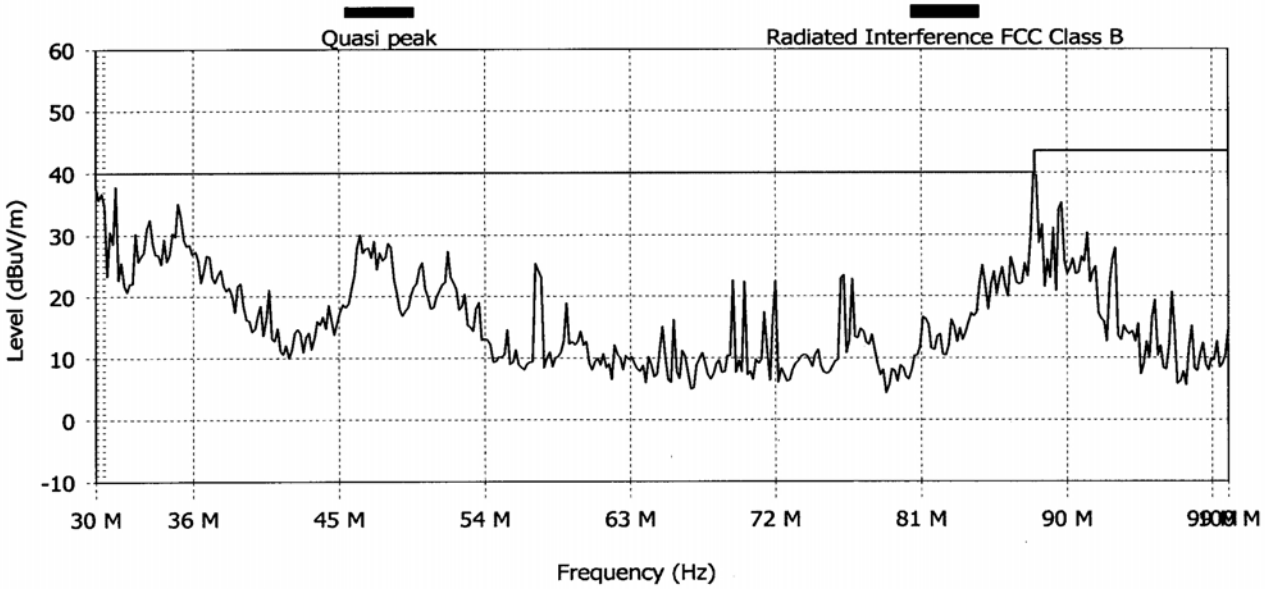
EUT
Name: GigAccess 900 mode A
Serial Number:

Client
Name: WAVEIP
Contact Person: Yoram Singer

Radiated Emission

Description: 10) FCC 15.205 RESTRICTED 30-100MHz 915 8dbi omni
From 30 MHz to 100 MHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	Type	PK (dBuV/m)	QP (dBuV/m)	QP Limit (dBuV/m)	QP Diff (dBuV/m)	QP Pass	Pass	Angle (degrees)	Height (m)	H/V
1	30.38	Disc. BB	34.9	25.6	40.0	-14.4	Pass	Pass	300	1	V
2	30	Cont. NB	37.7	28.8	40.0	-11.2	Pass	Pass	240	1.65	V
3	31.225	Cont. BB	37.9	28.4	40.0	-11.6	Pass	Pass	300	1	V
4	34.899	Disc. BB	39.2	29.3	40.0	-10.7	Pass	Pass	240	1.65	V
5	88.027	Cont. NB	38.2	38.0	43.5	-5.5	Pass	Pass	180	1	V

Settings:
Antenna: Both Polarizations at 3.0 m
Ref. Level: 90.0 dBuV/m Att: 0 dB. RBW: 120 kHz. VBW: 1000 kHz. Sweep time: 20 ms.
Detect all peaks above 8 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

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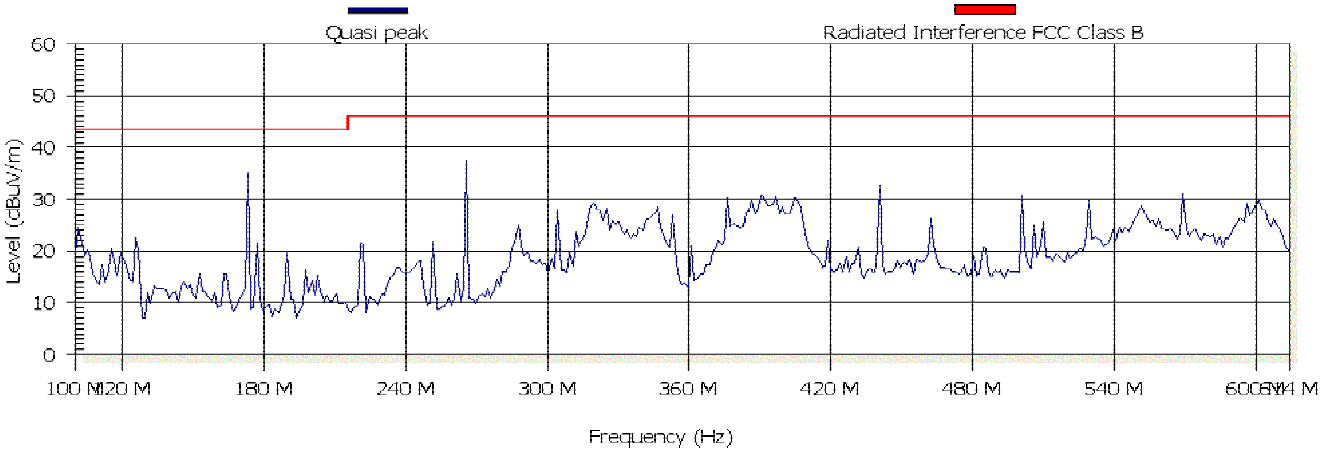
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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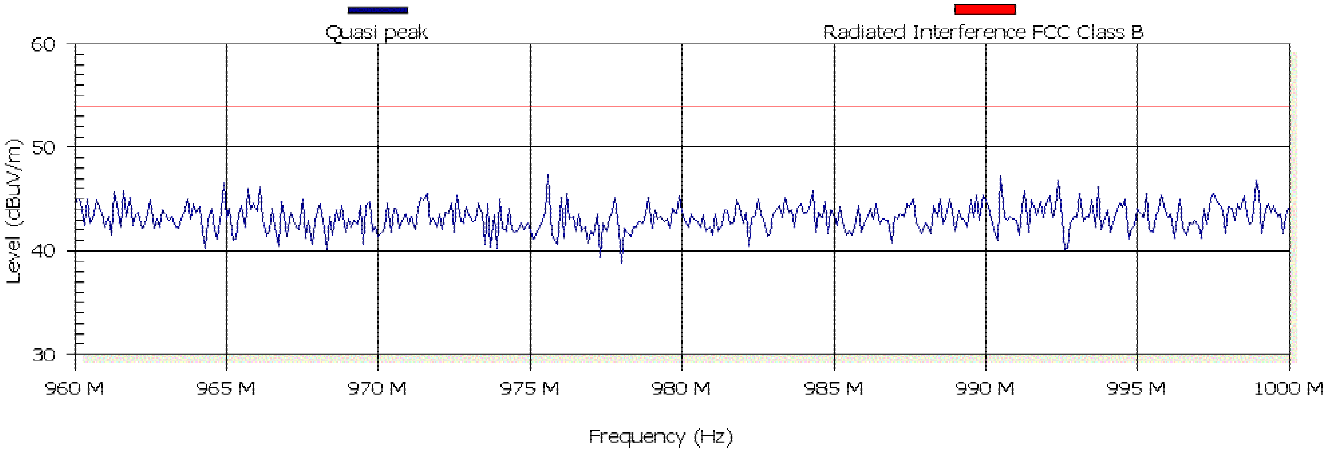
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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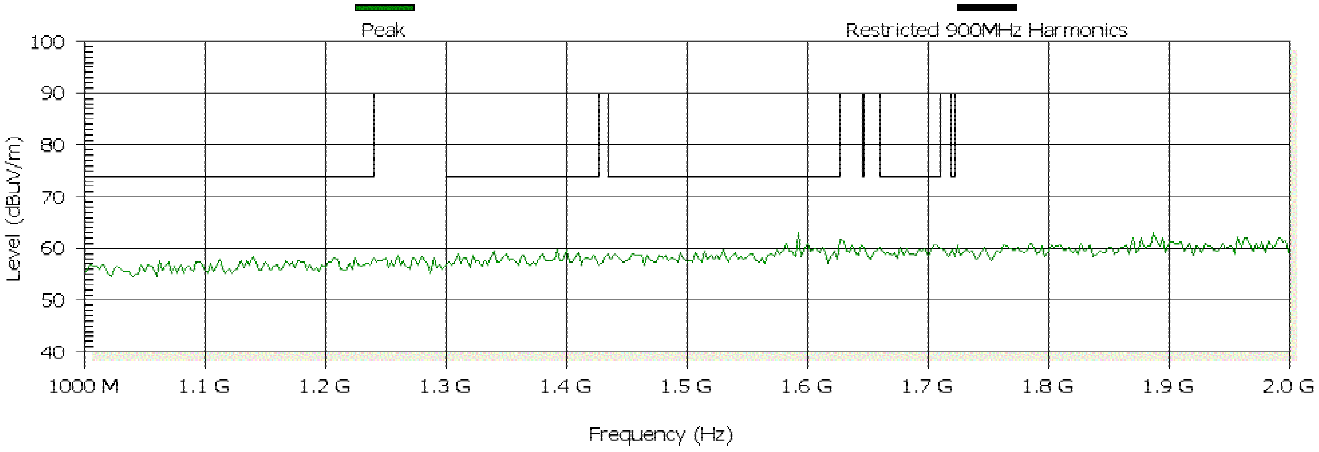
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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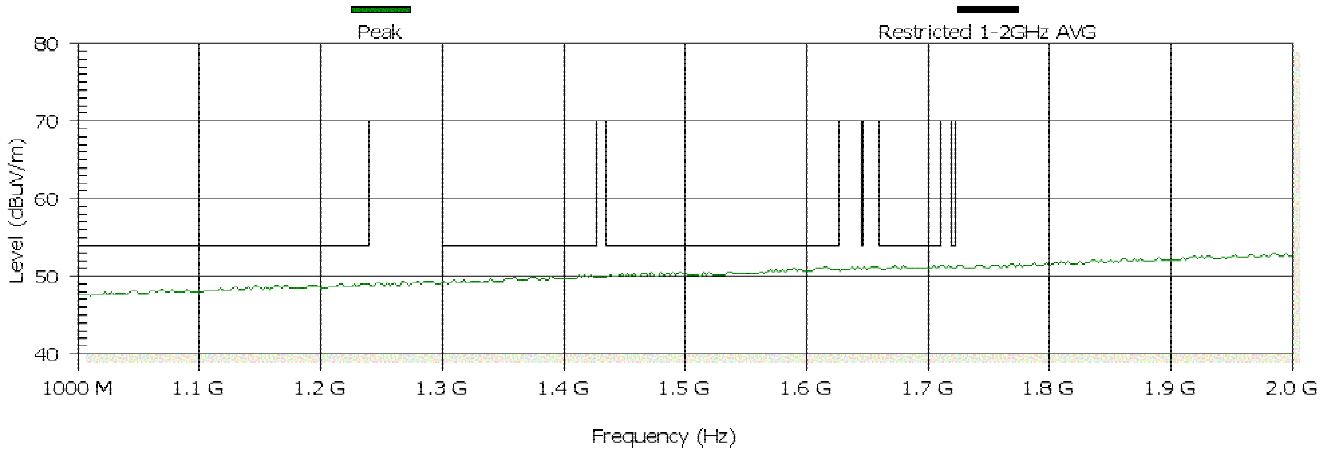
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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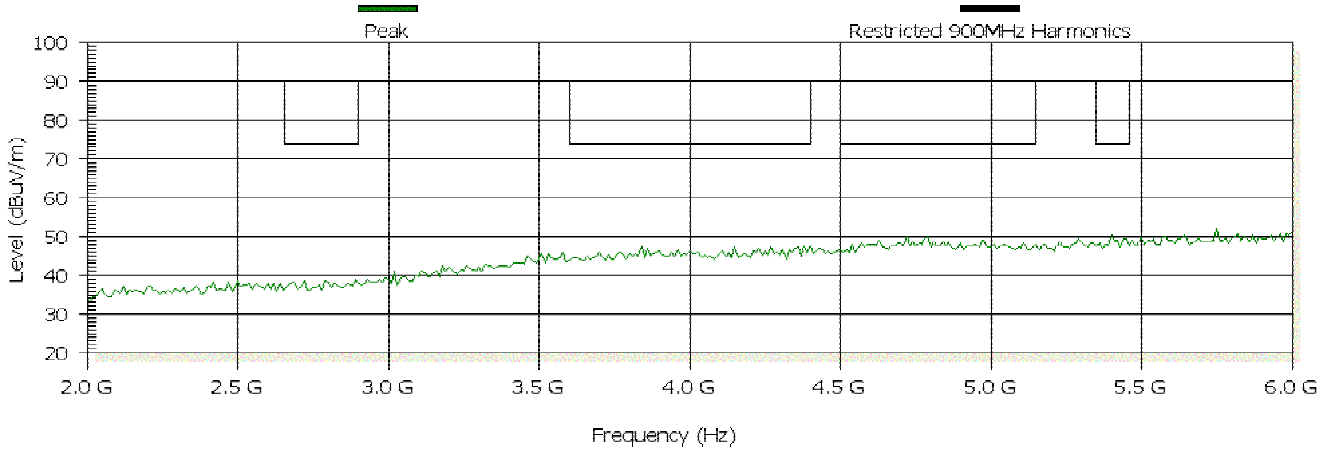
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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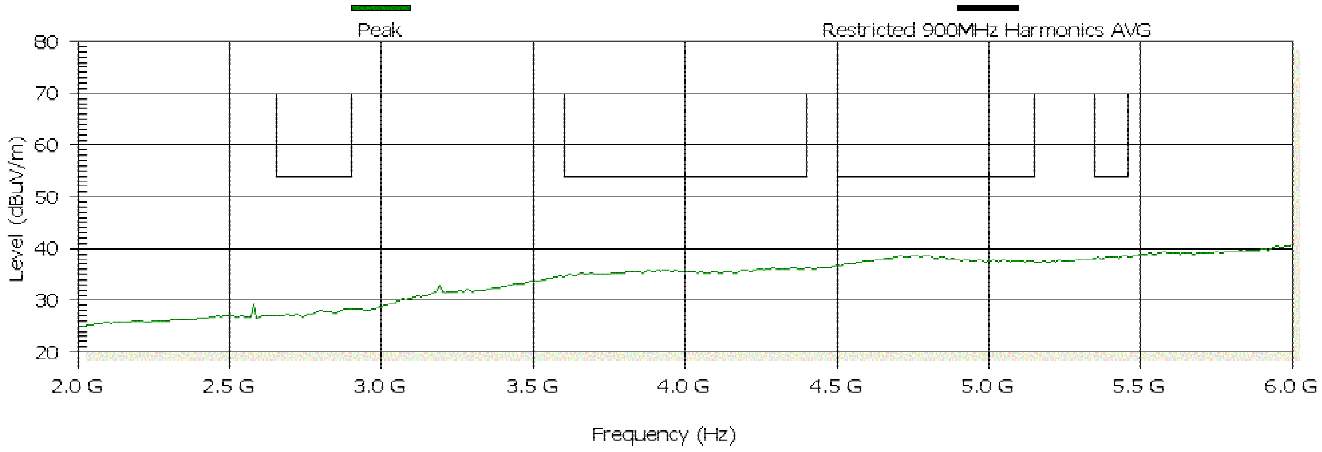
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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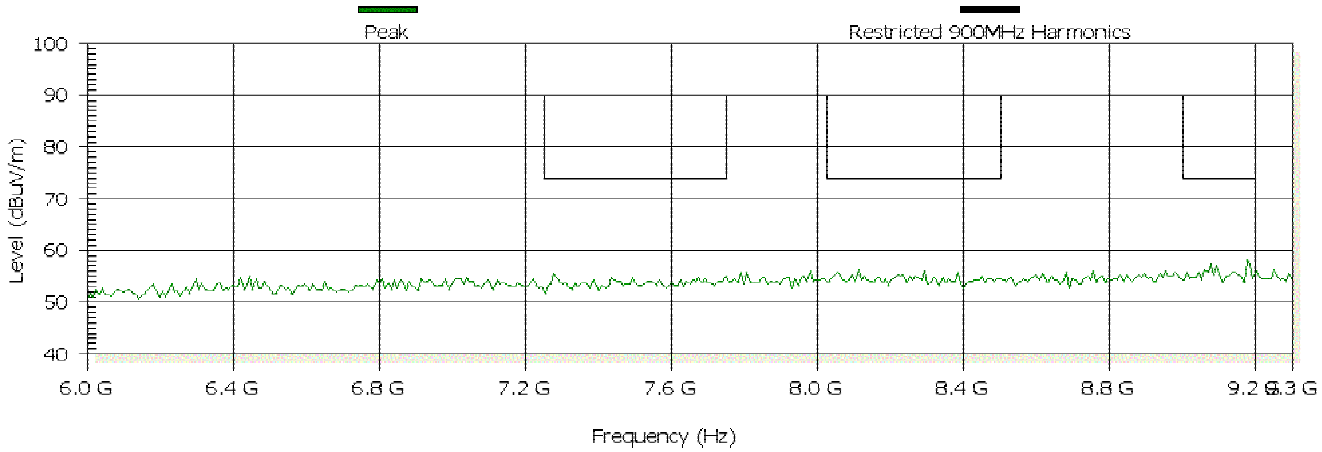
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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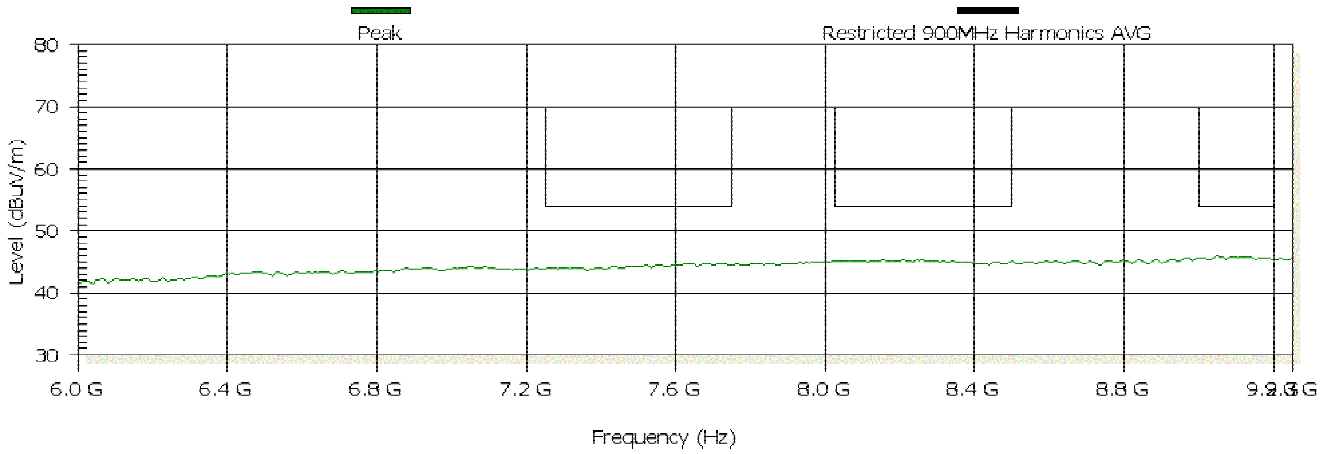
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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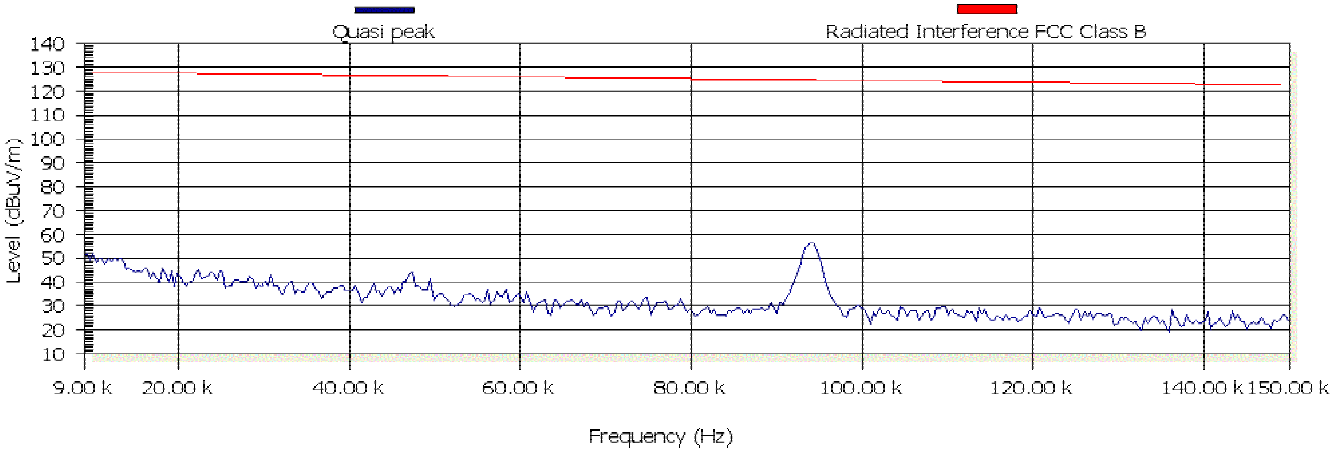
(16)

(17) **Transmit Frequency 923MHz for 8dbi sq extern GA_900A mode**

Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Horizontal



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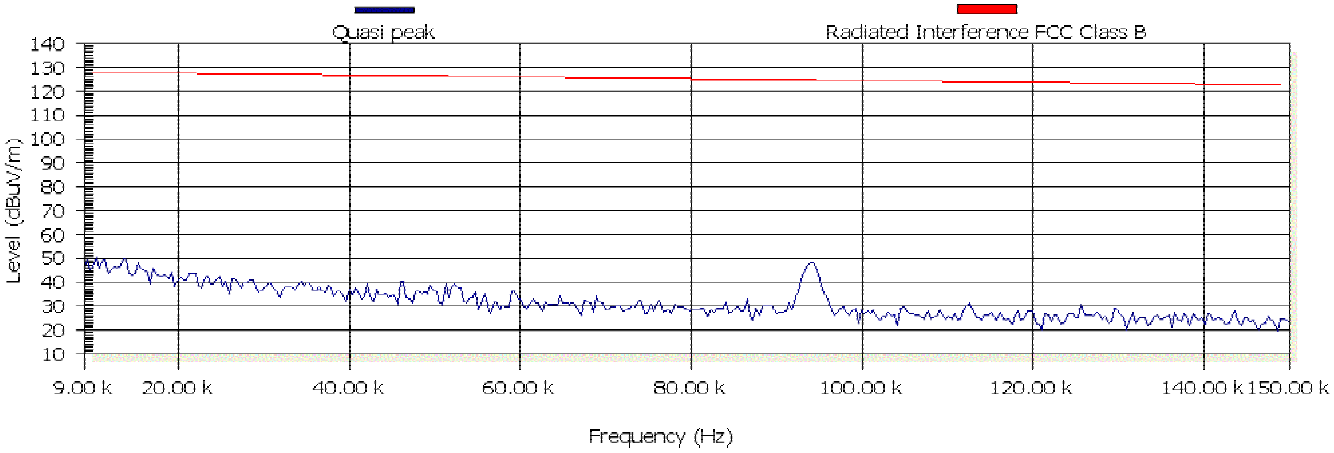
Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Vertical



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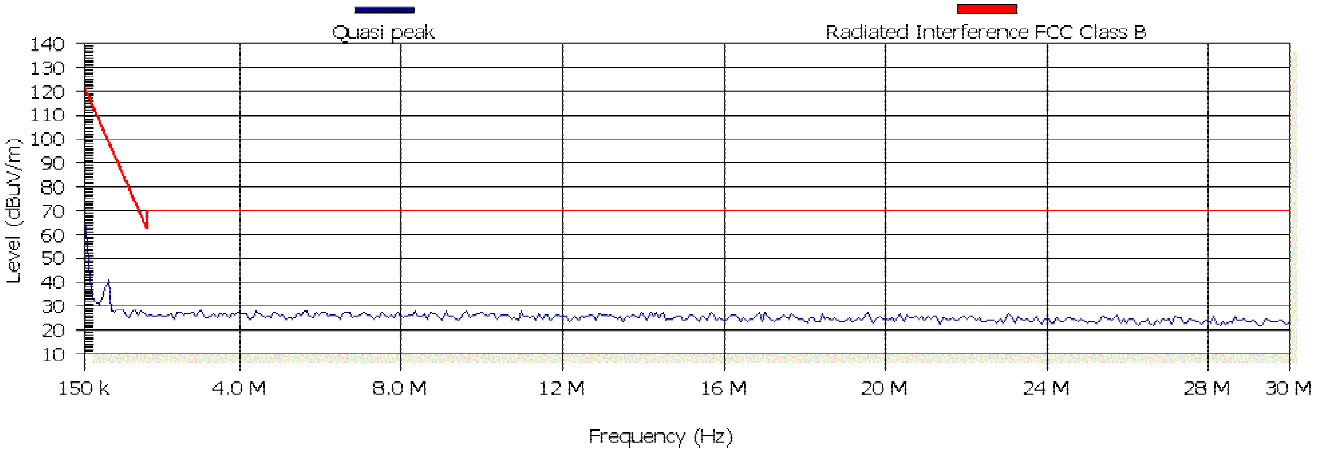
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Horizontal



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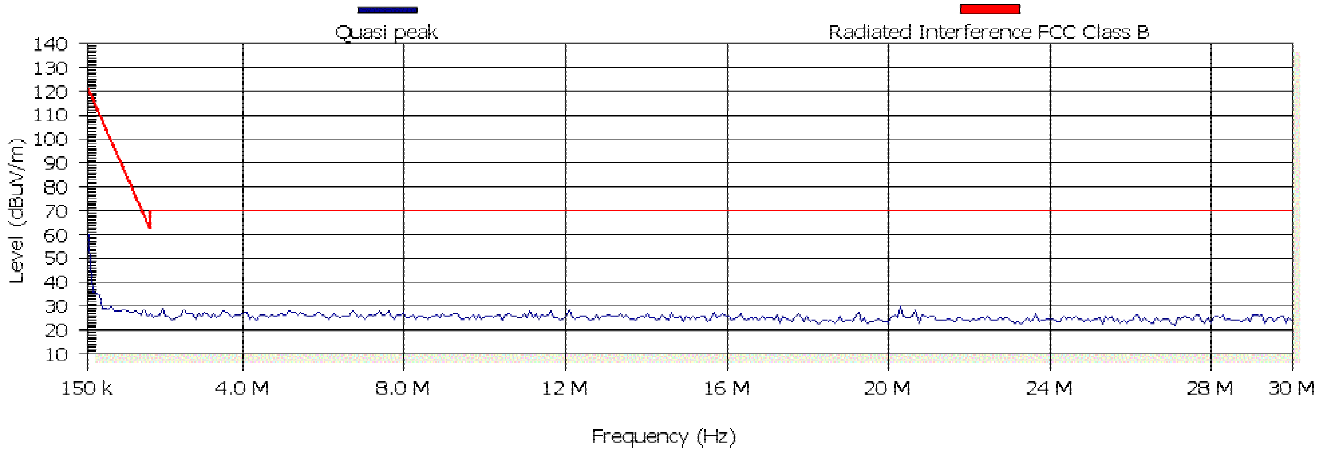
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Vertical



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EUT File:
N:\COMMON\WAVE-IP-n\GigAccess900H\Mode 900A-continue.EUT
Order Number:

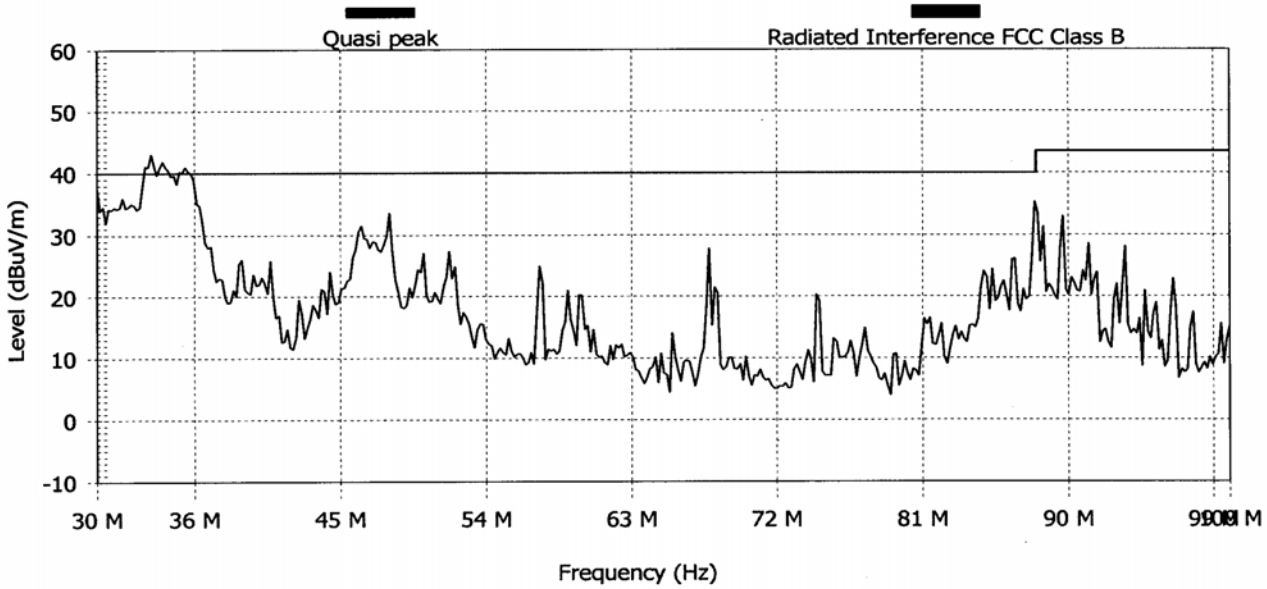
EUT
Name: GigAccess 900 mode A
Serial Number:

Client
Name: WAVEIP
Contact Person: Yoram Singer

Radiated Emission

Description: 9) FCC 15.205 RESTRICTED 30-100MHz 923 8dbi omni
From 30 MHz to 100 MHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	Type	PK (dBuV/m)	QP (dBuV/m)	QP Limit (dBuV/m)	QP Diff (dBuV/m)	QP Pass	Pass	Angle (degrees)	Height (m)	H/V
1	35.281	Disc. NB	35.6	32.9	40.0	-7.1	Pass	Pass	240	1.65	V
2	34.009	Disc.	38.6	36.4	40.0	-3.6	Pass	Pass	240	1.65	V
3	34.162	Disc. NB	42.5	36.6	40.0	-3.4	Pass	Pass	240	1.65	V
4	35.032	Disc.	36.1	34.3	40.0	-5.7	Pass	Pass	240	1.65	V
5	35.5	Disc.	34.9	32.2	40.0	-7.8	Pass	Pass	240	1.65	V
6	87.994	Disc. NB	36.7	36.5	40.0	-3.5	Pass	Pass	180	1	V

Settings:
Antenna: Both Polarizations at 3.0 m
Ref. Level: 90.0 dBuV/m Att: 0 dB. RBW: 120 kHz. VBW: 1000 kHz. Sweep time: 20 ms.
Detect all peaks above 8 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

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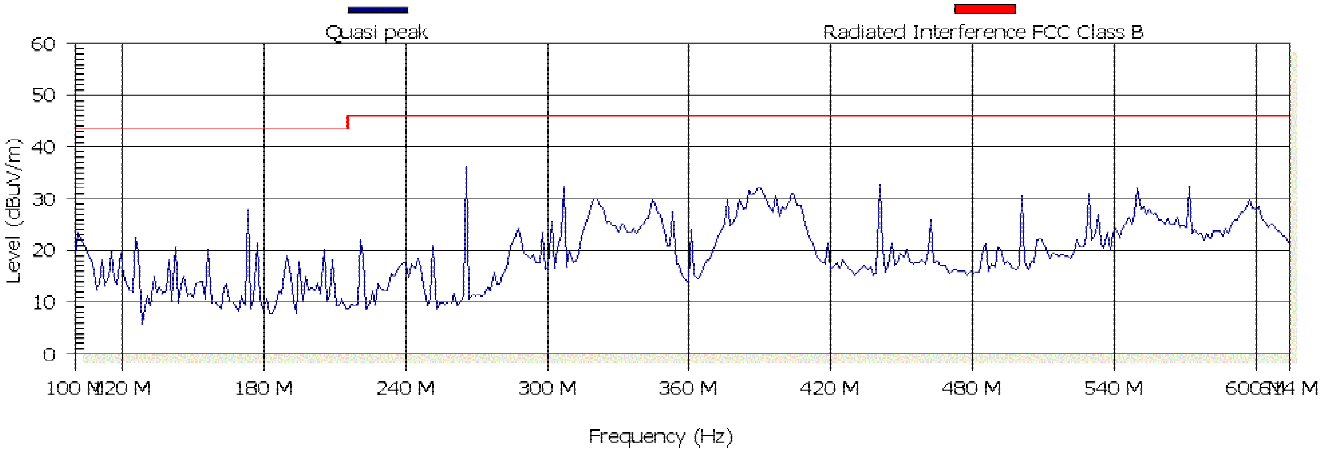
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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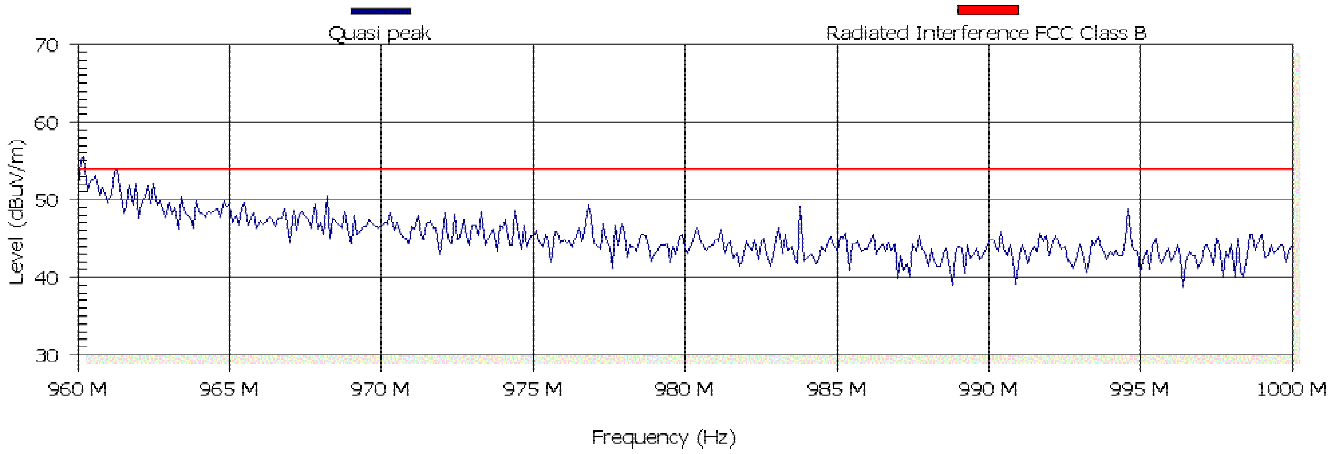
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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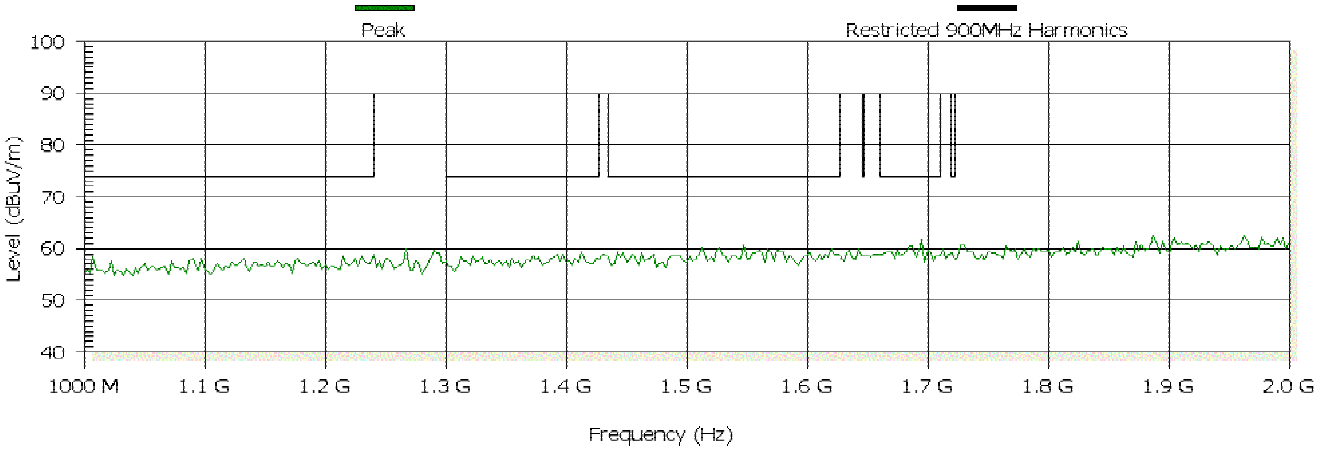
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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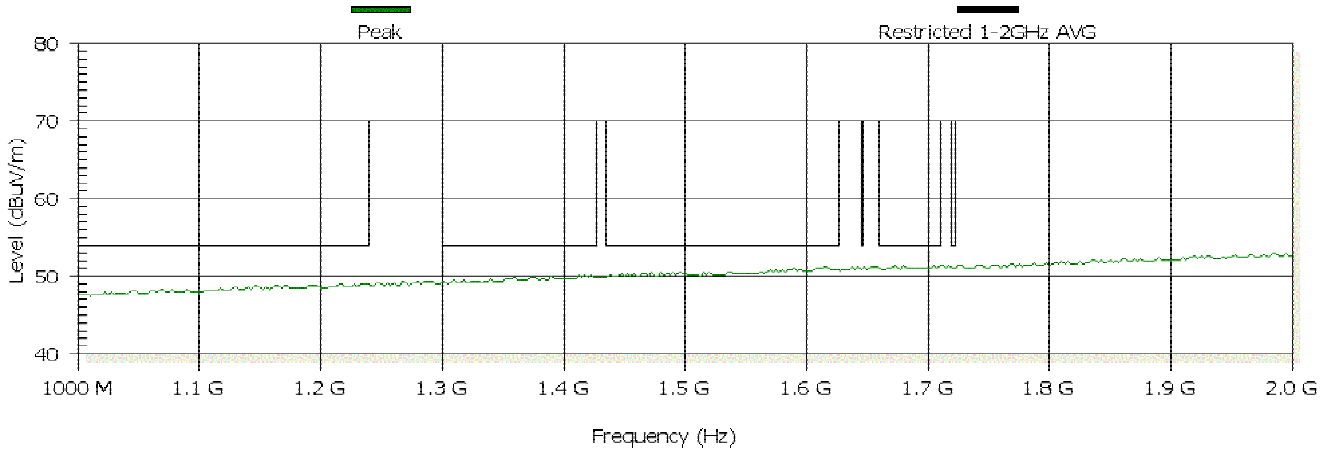
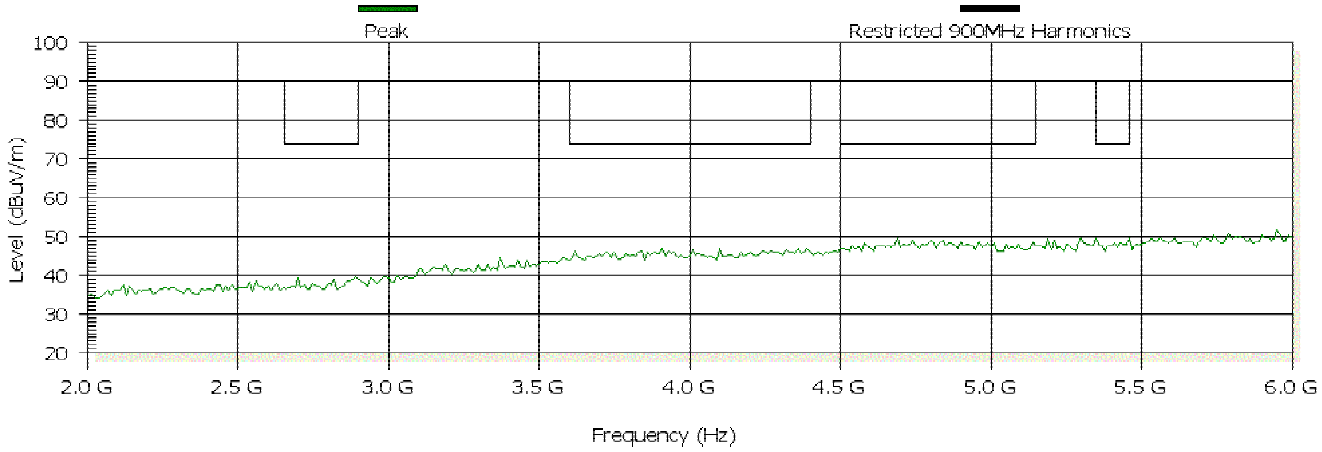
Analyzer setting: RBW-10KHz, VBW-3MHz, average



Plot /230

Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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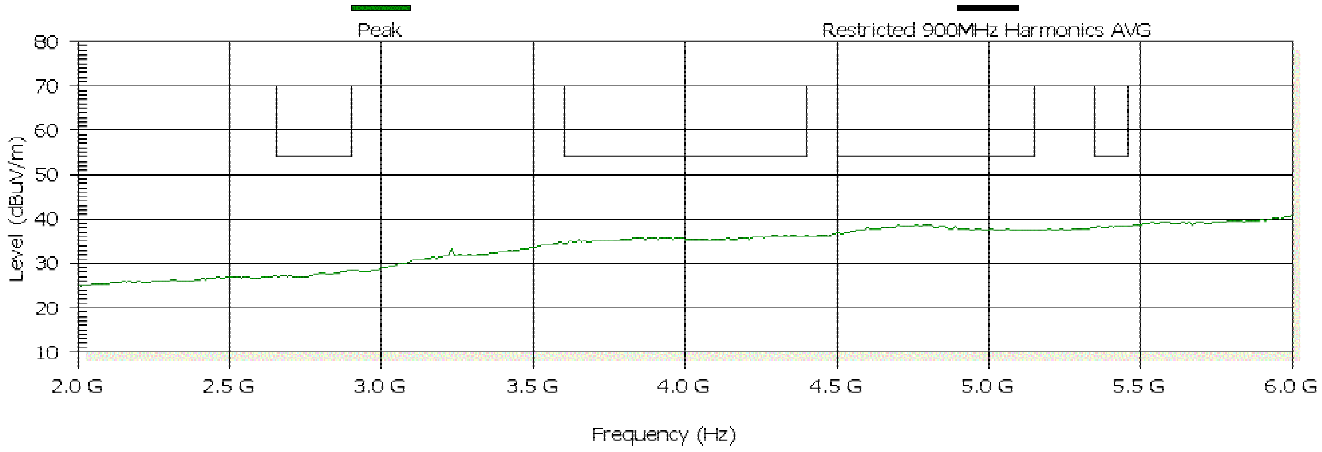
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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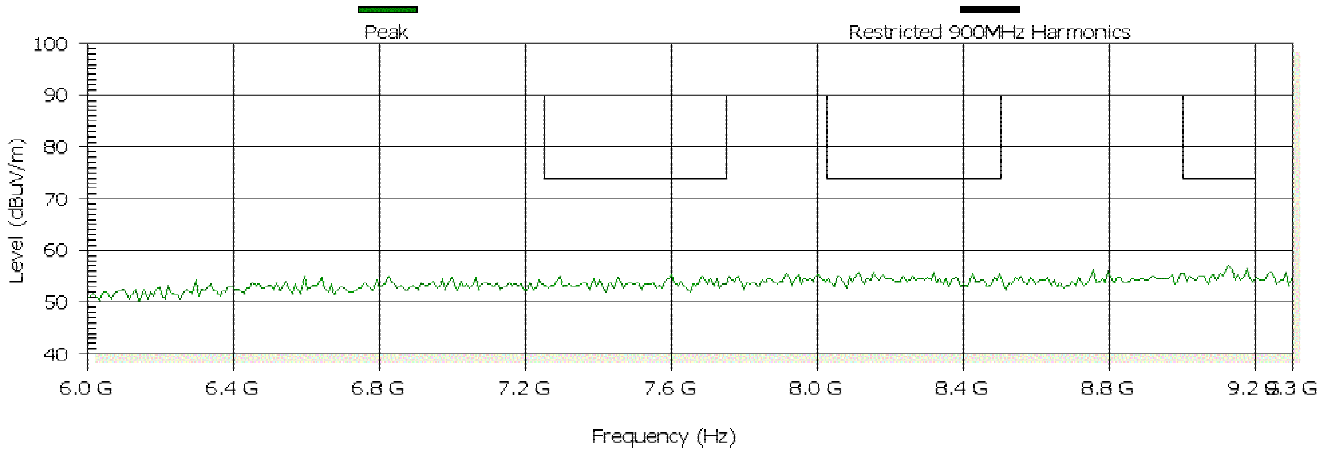
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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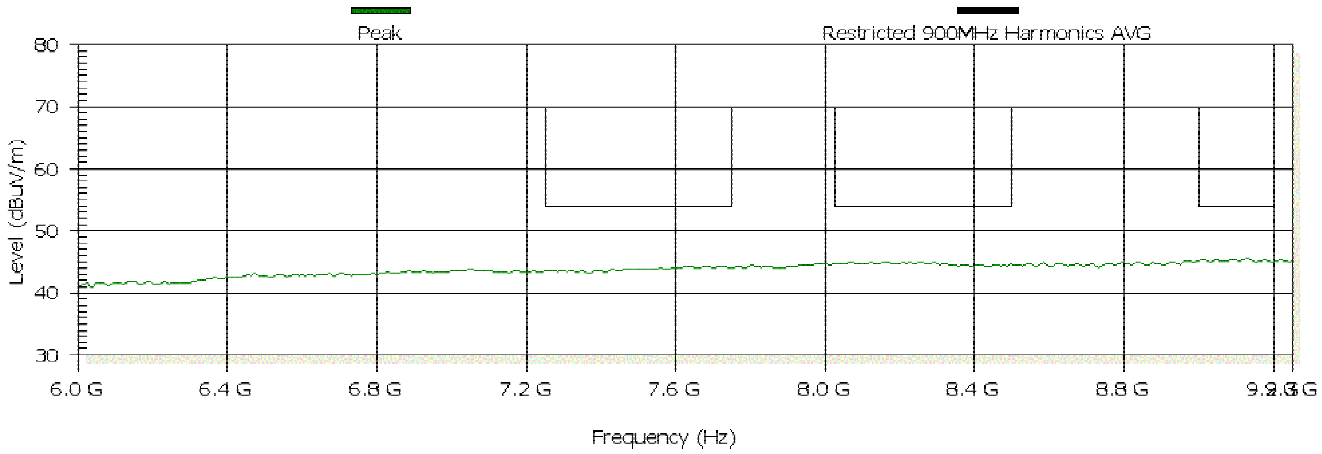
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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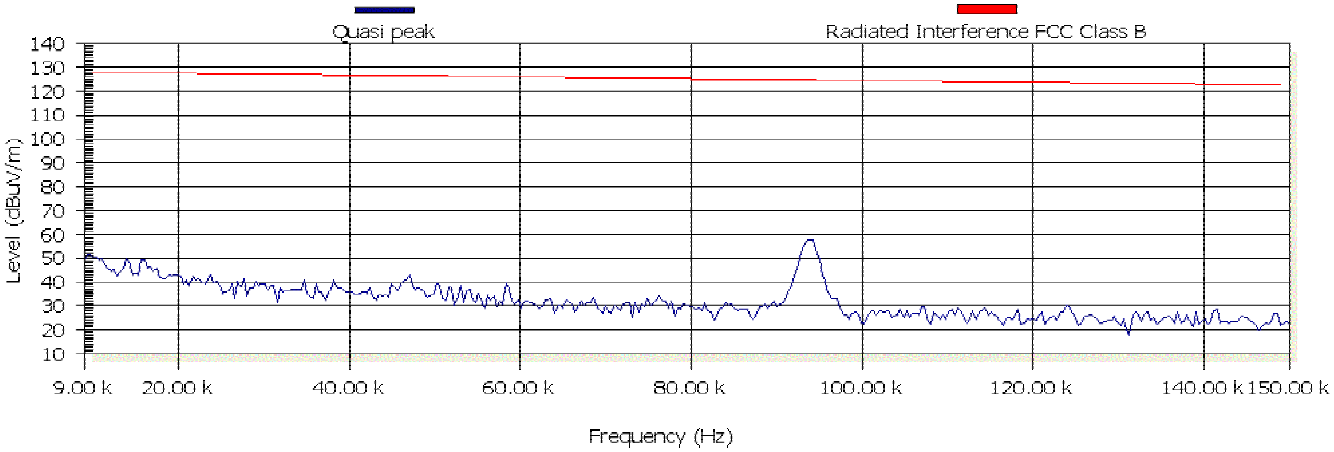
(18) **Transmit Frequency 907MHz for 12.5dbi sq extern GA_900A mode**

Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Horizontal



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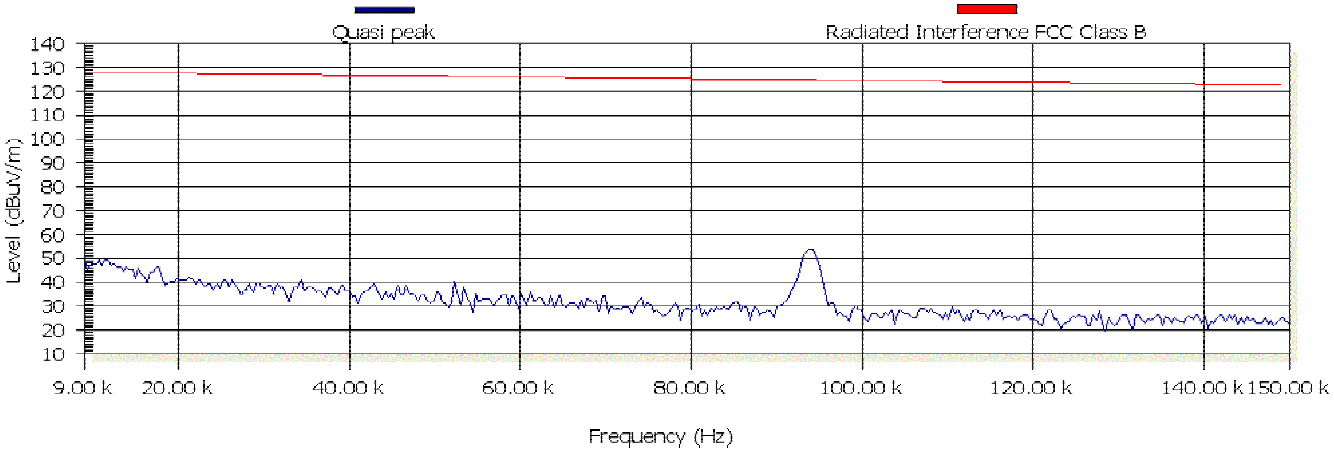
Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Vertical



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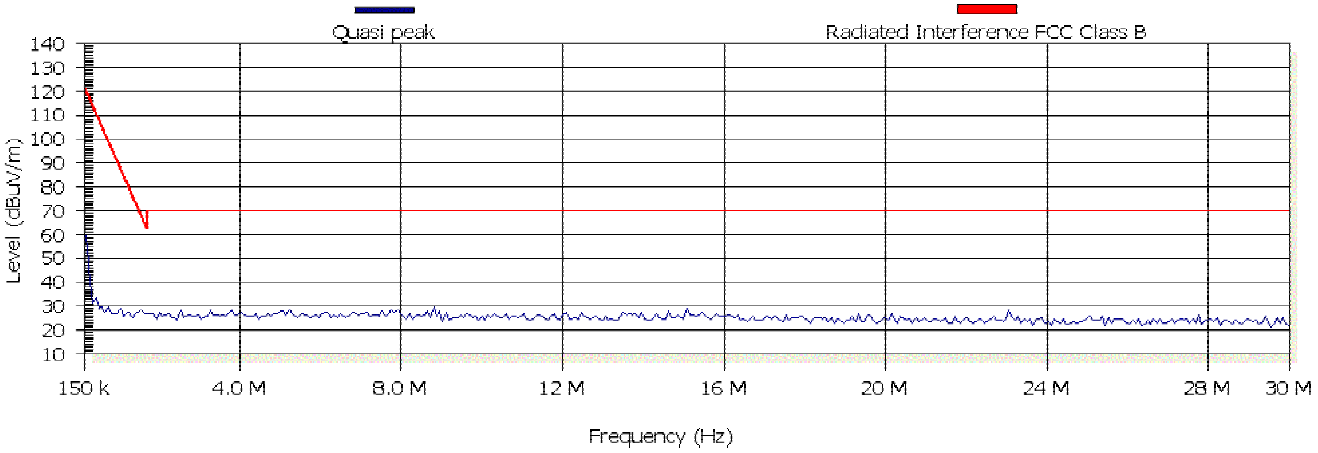
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Horizontal



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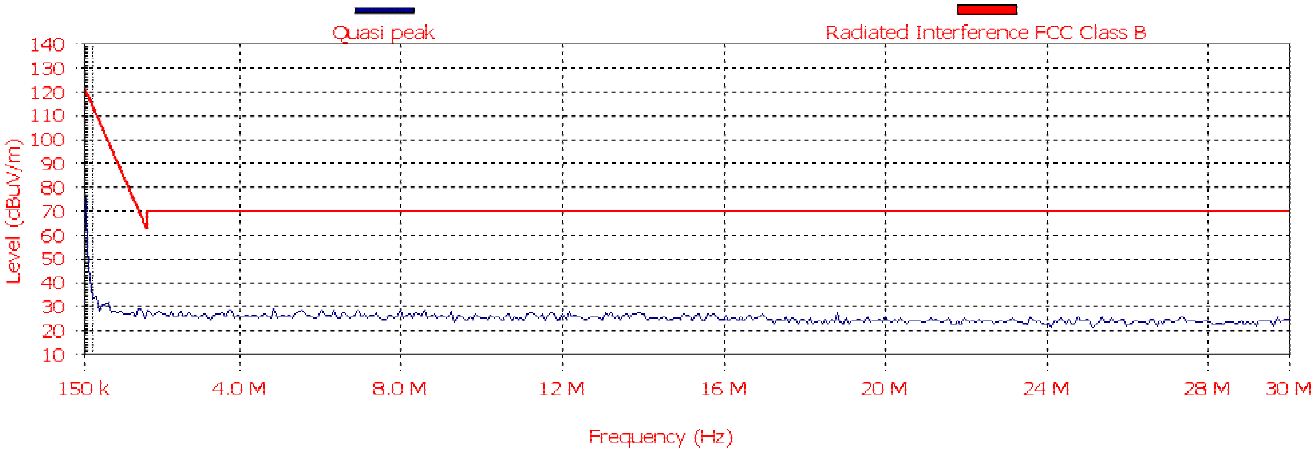
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Vertical



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EUT File:
N:\COMMON\WAVE-IP-n\GigAccess900H\Mode 900A.EUT
Order Number:

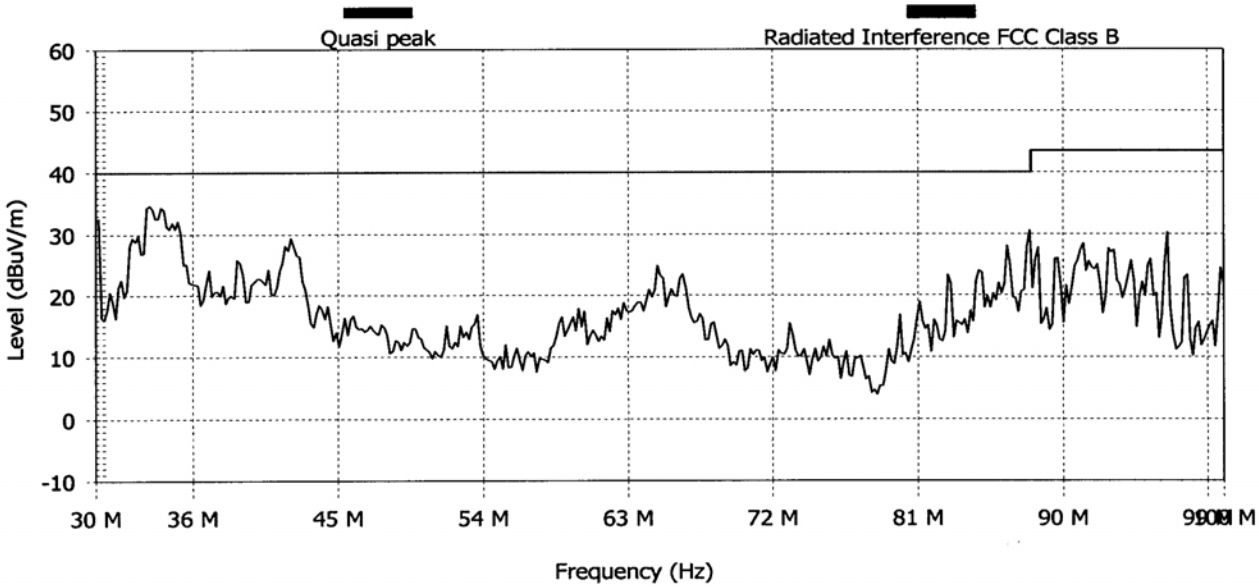
EUT
Name: 900A
Serial Number: 0050C21CC468

Client
Name: WAVEIP
Contact Person: YORAM

Radiated Emission

Description: 103) FCC 15.205 RESTRICTED 30-100MHz 907 12.5 sq extern
From 30 MHz to 100 MHz

Graph:



Detected Peaks:

Nr	Frequency (MHz)	Type	PK (dBuV/m)	QP (dBuV/m)	QP Limit (dBuV/m)	QP Diff (dBuV/m)	QP Pass	Pass	Angle (degrees)	Height (m)	H/V
1	33.325	Disc. BB	34.7	25.5	40.0	-14.5	Pass	Pass	252	1	H
2	34.075	Disc. BB	36.9	28.5	40.0	-11.5	Pass	Pass	216	1	V

Settings:
Antenna: Both Polarizations at 3.0 m
Ref. Level: 90.0 dBuV/m Att: 0 dB. RBW: 120 kHz. VBW: 1000 kHz. Sweep time: 20 ms.
Detect all peaks above 6 dB below the limit lines with a maximum of 6 peaks.
Measure the peaks with the quasi-peak detector

Note:

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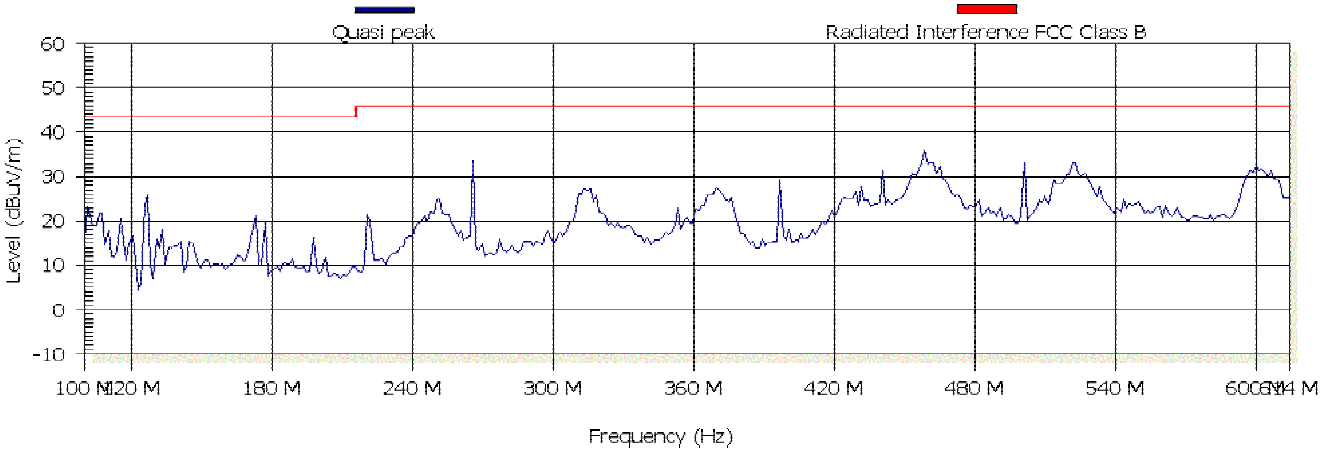
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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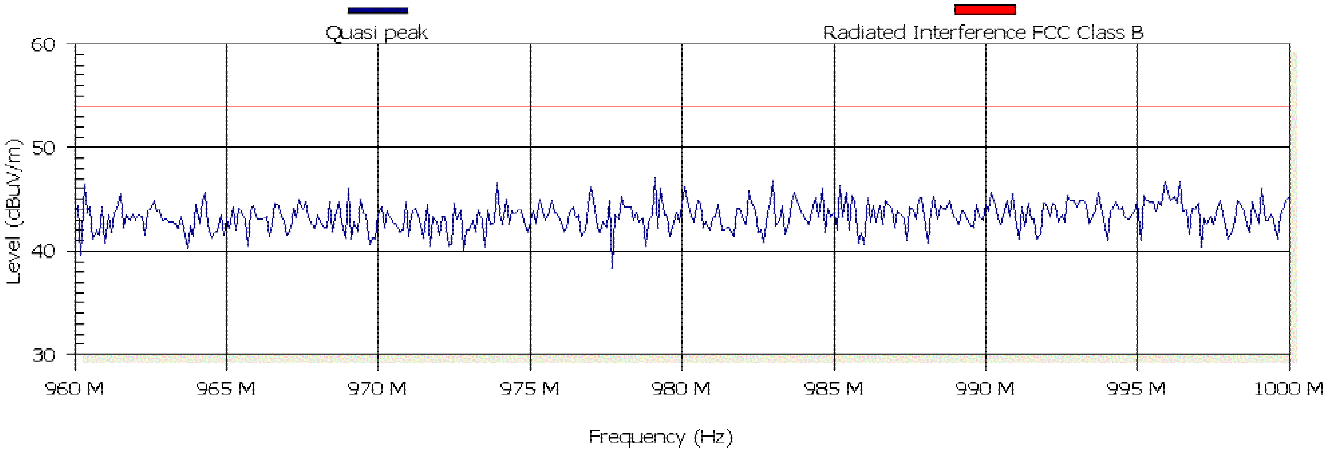
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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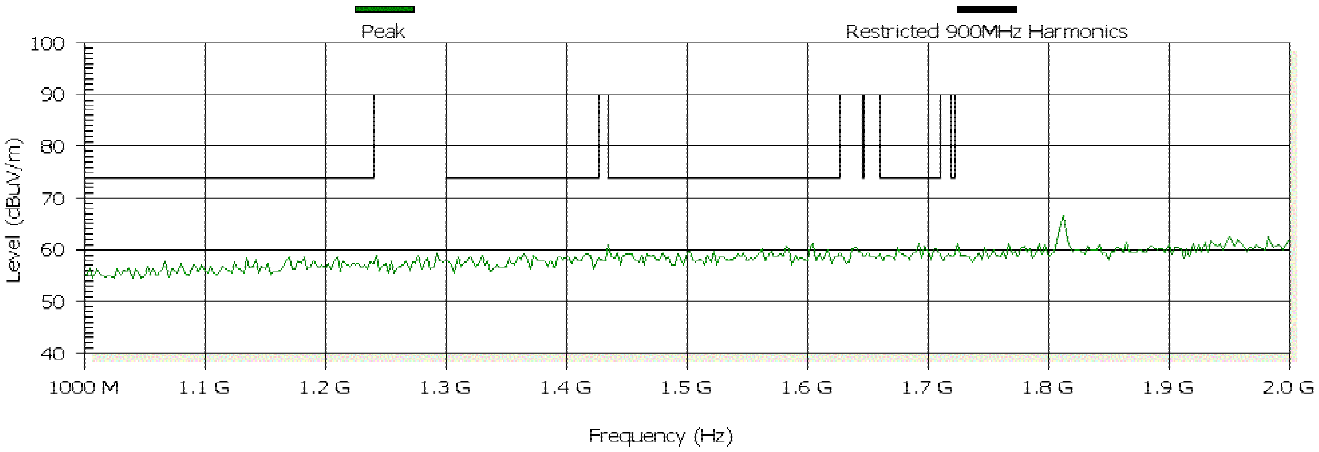
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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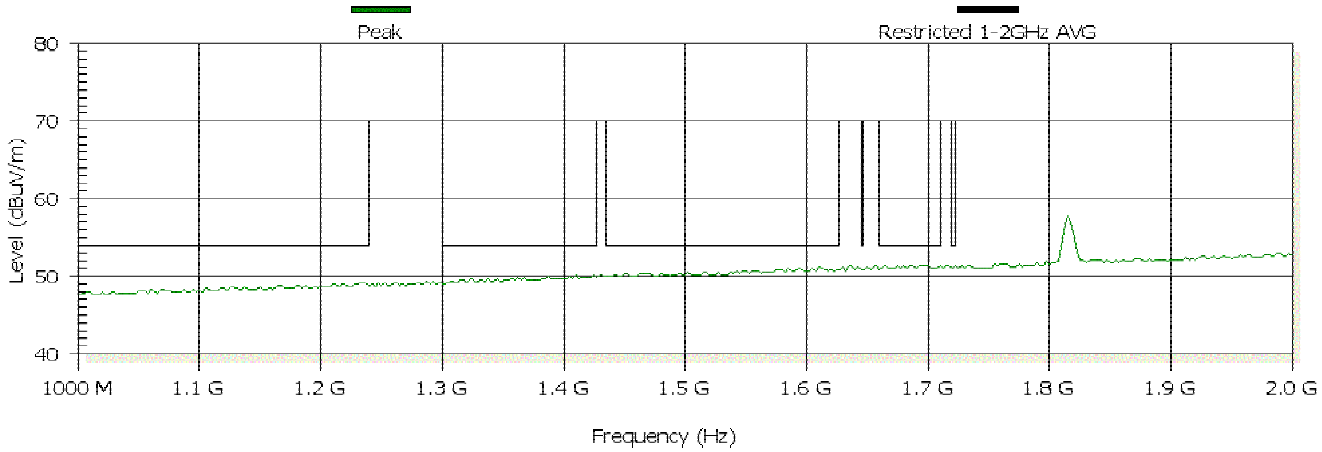
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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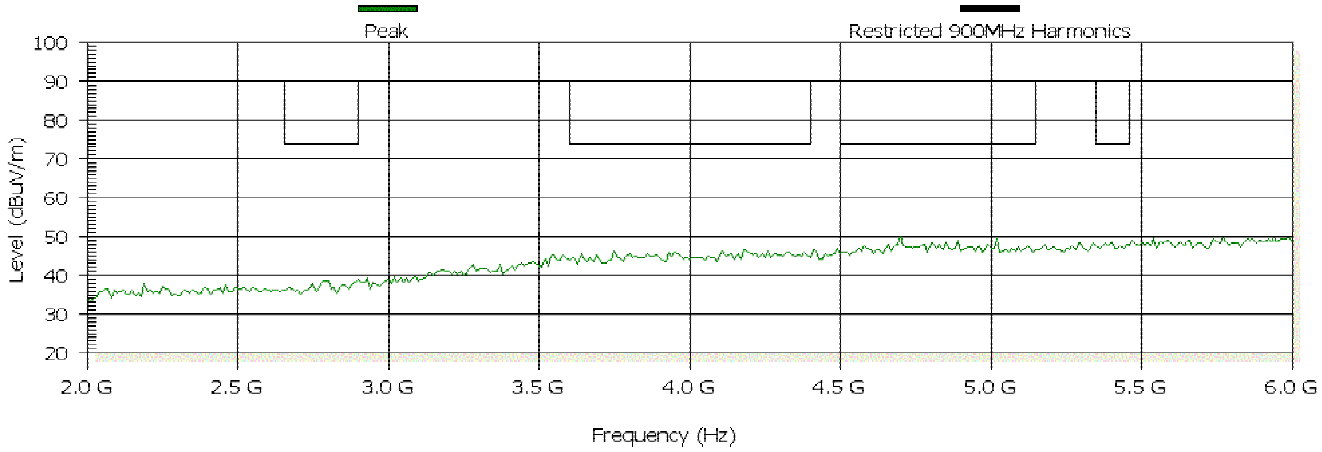
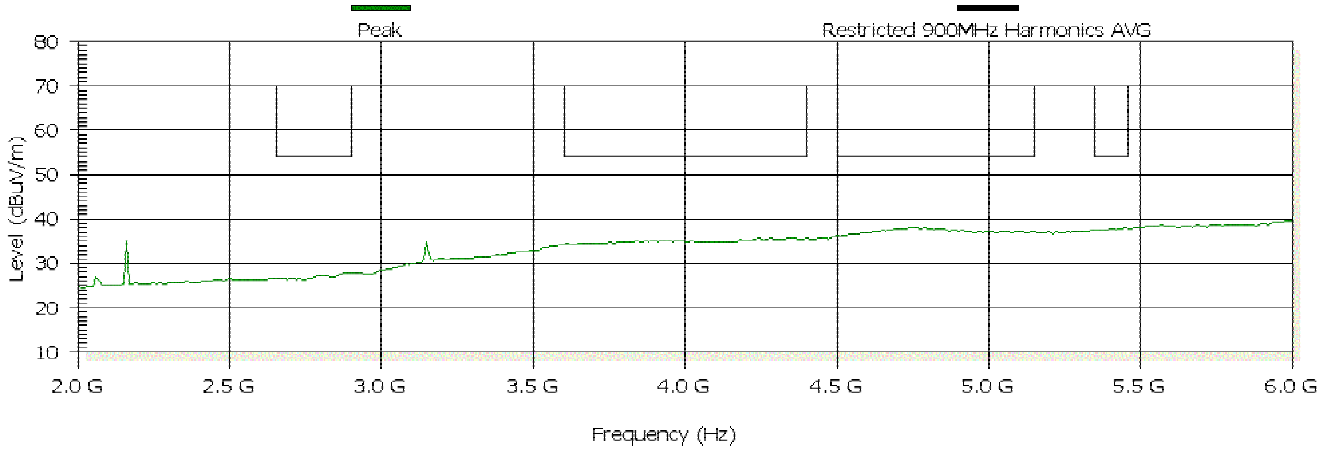
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



Plot / 244

Analyzer setting: RBW-10KHz, VBW-3MHz, average



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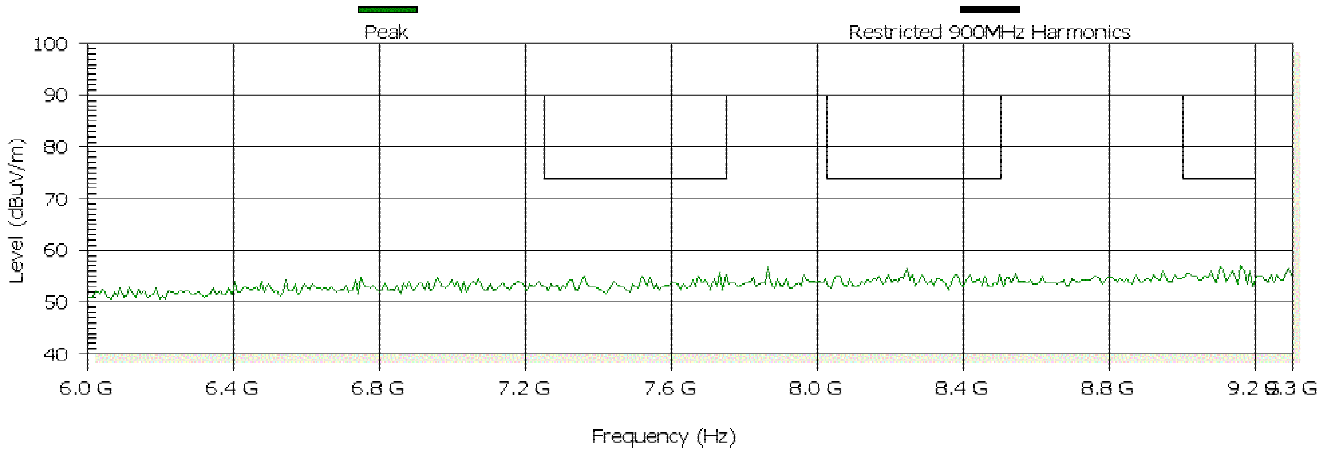
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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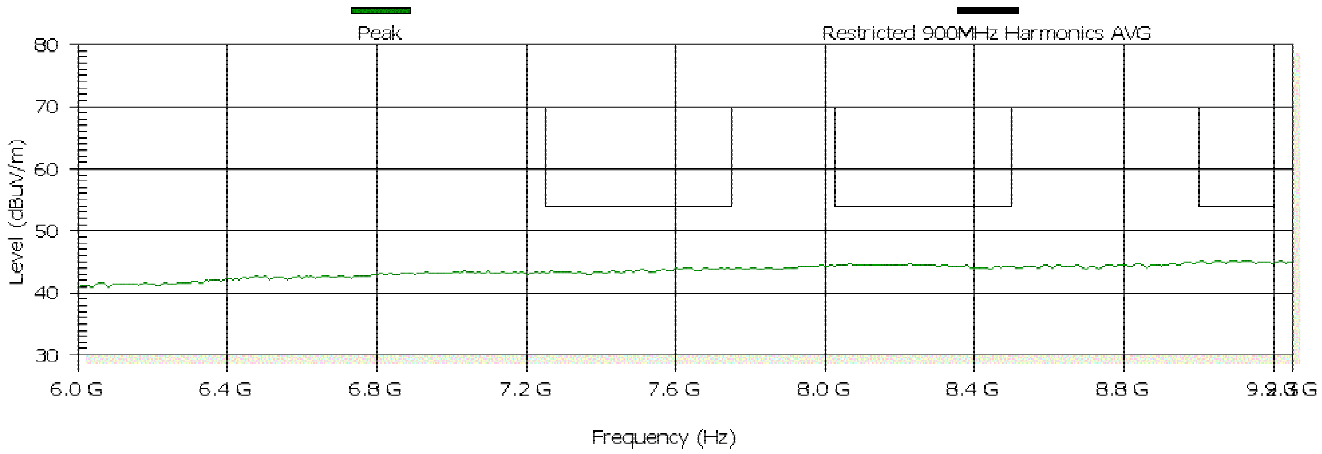
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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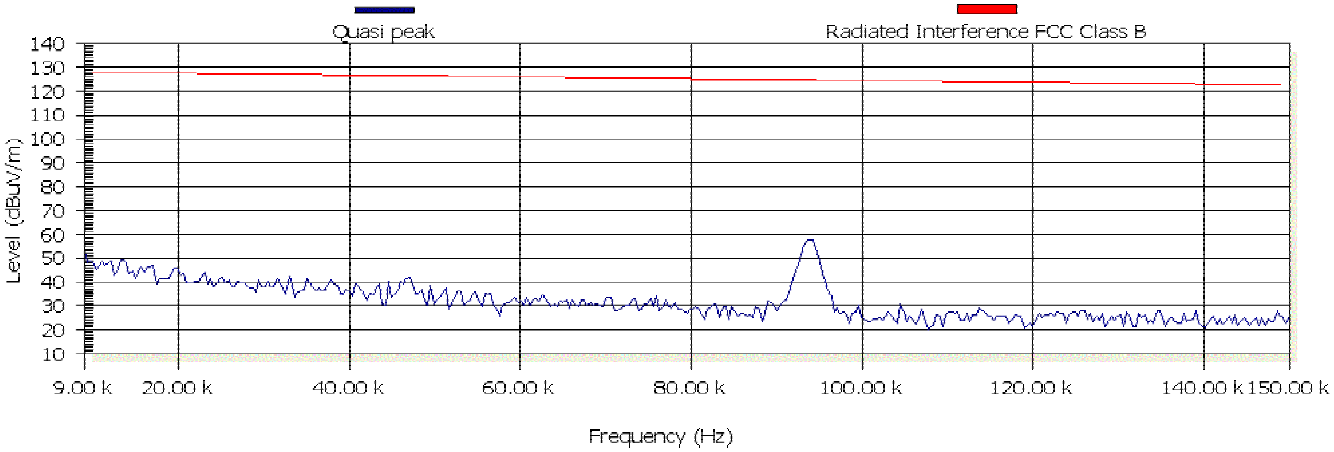
(19) **Transmit Frequency 915MHz for 12.5dbi sq extern GA_900A mode**

Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Horizontal



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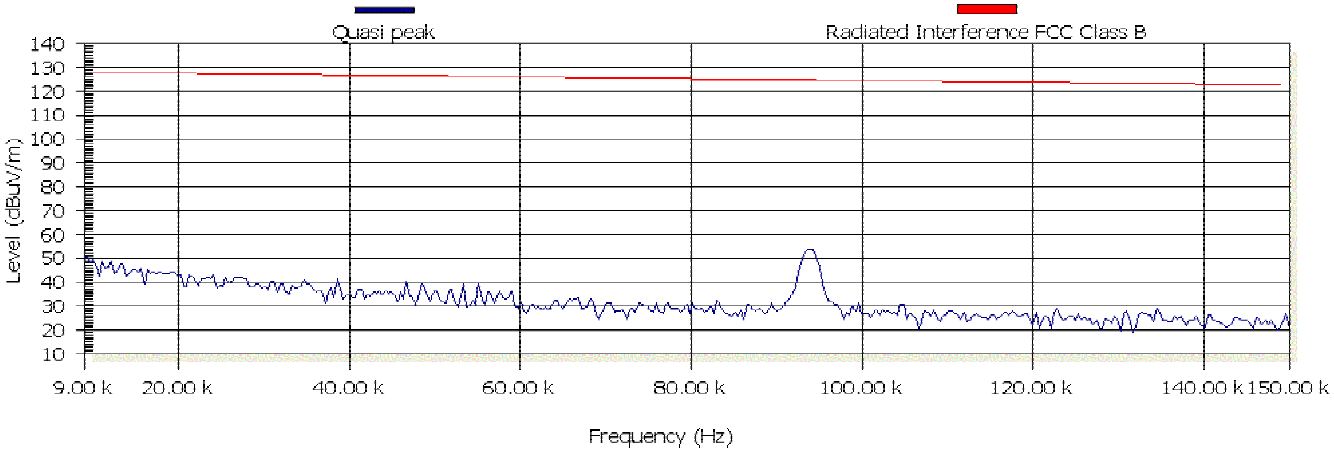
Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Vertical



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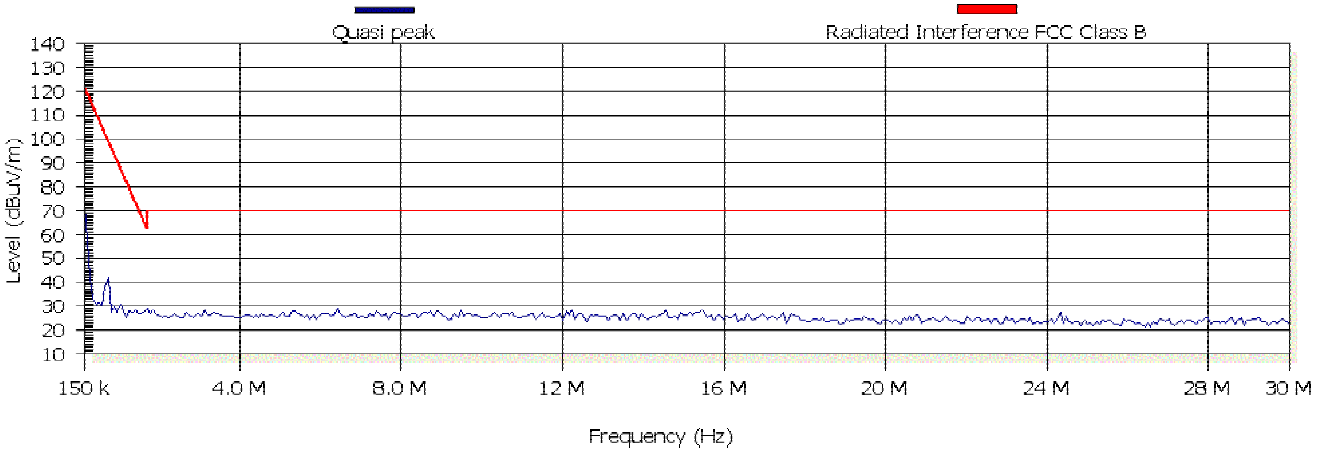
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Horizonta



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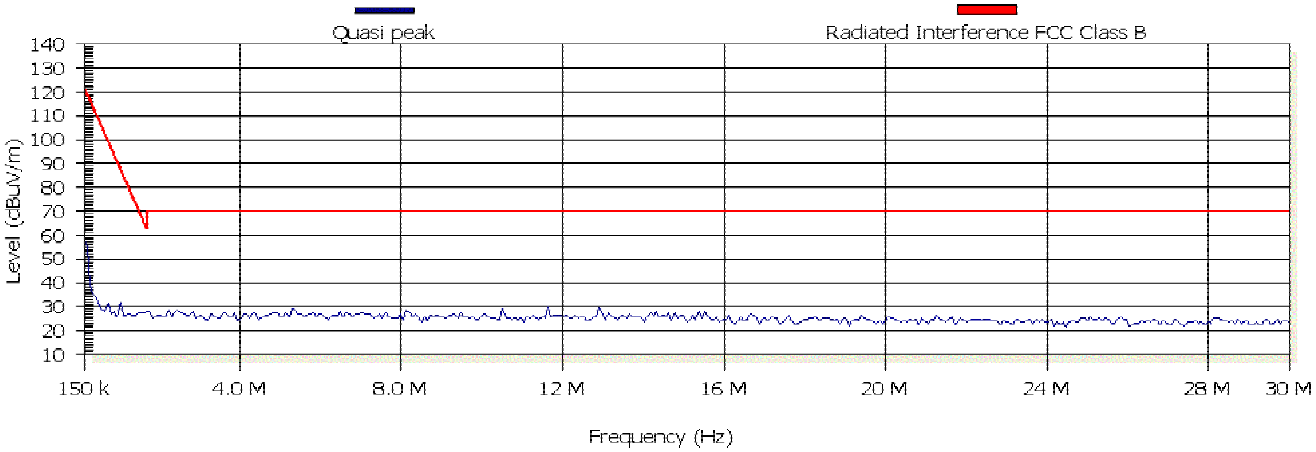
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Vertical



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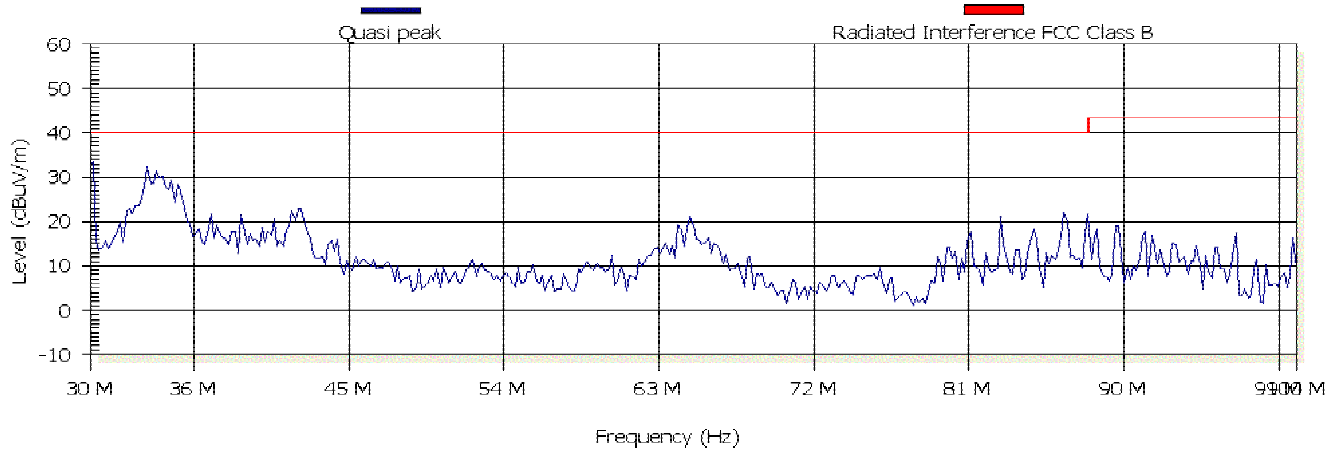
Analyzer setting: RBW-120K, VBW-1MHz, QP detector]



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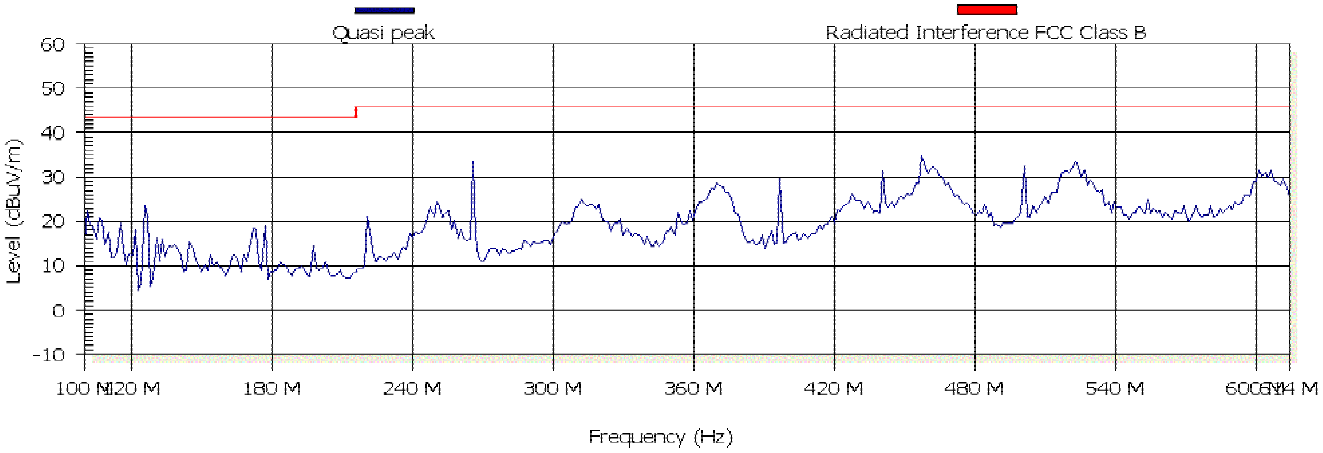
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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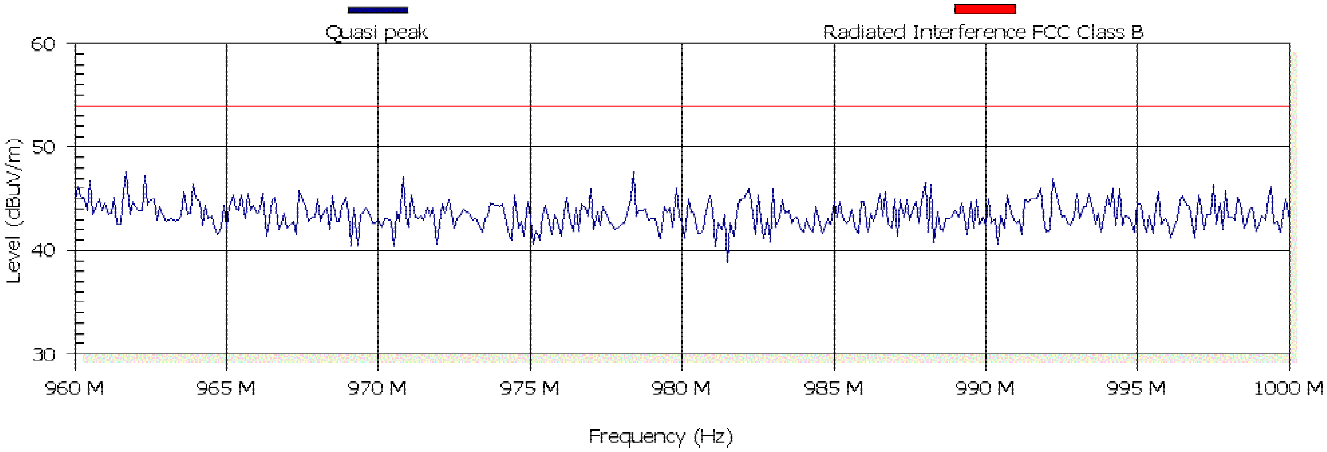
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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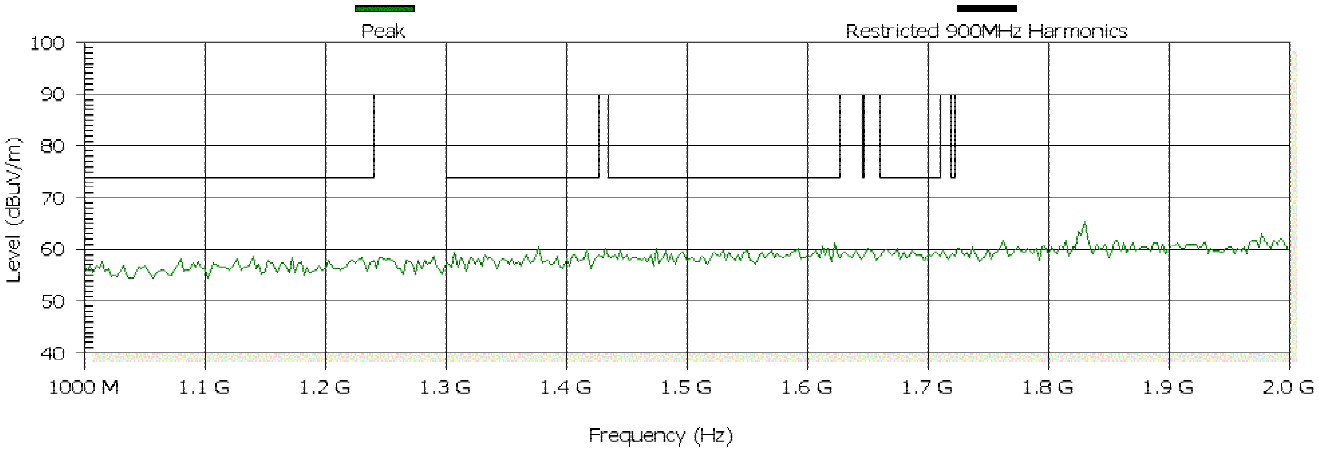
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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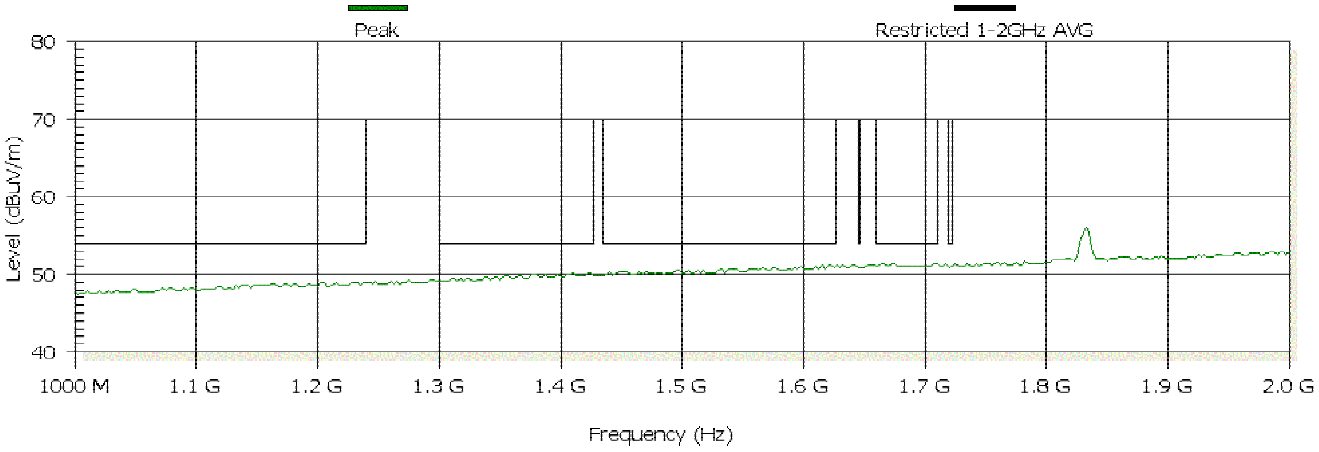
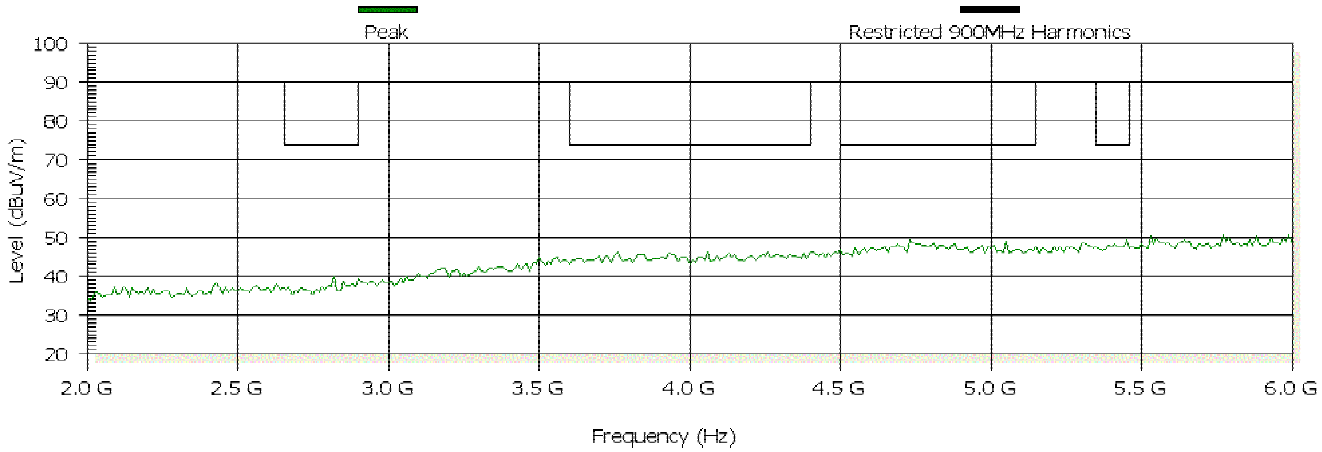
Analyzer setting: RBW-10KHz, VBW-3MHz, average



Plot /256

Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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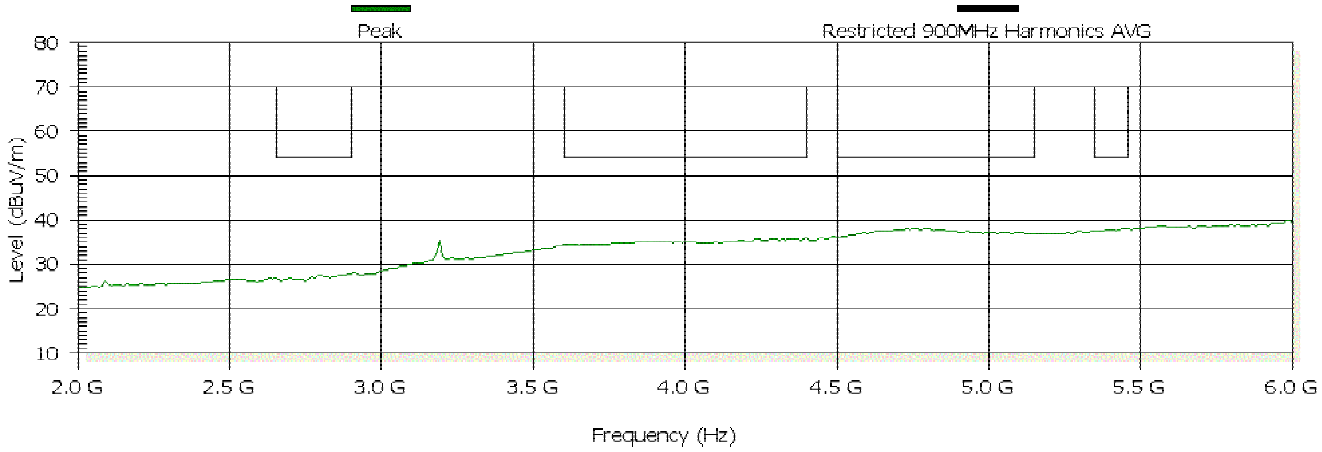
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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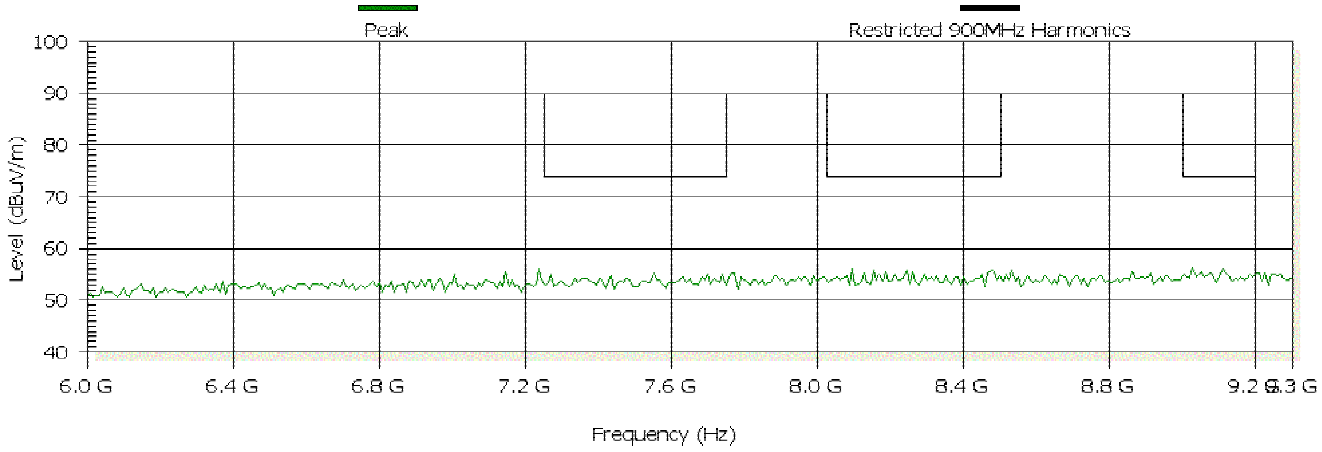
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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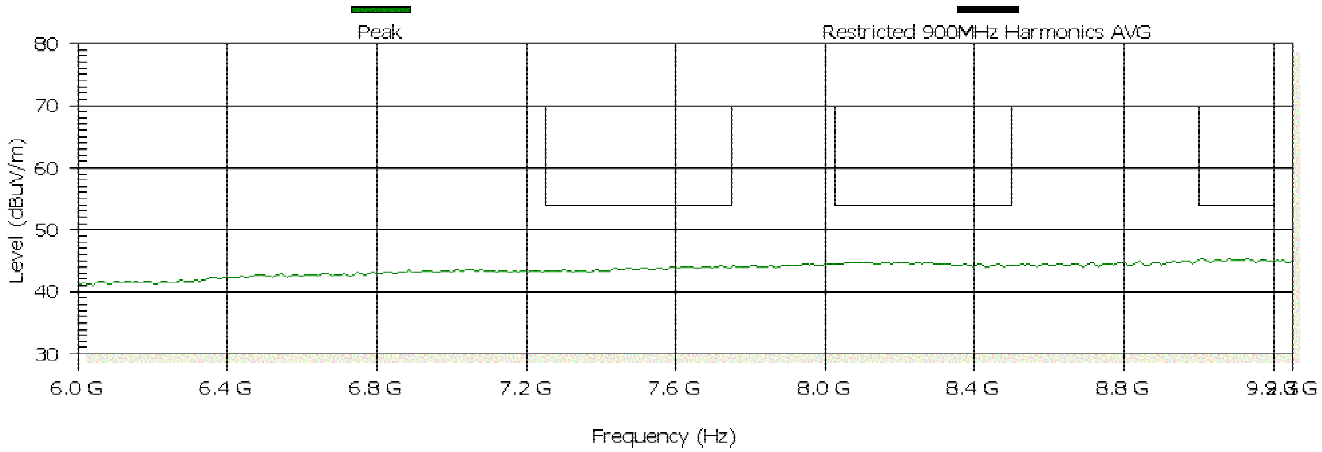
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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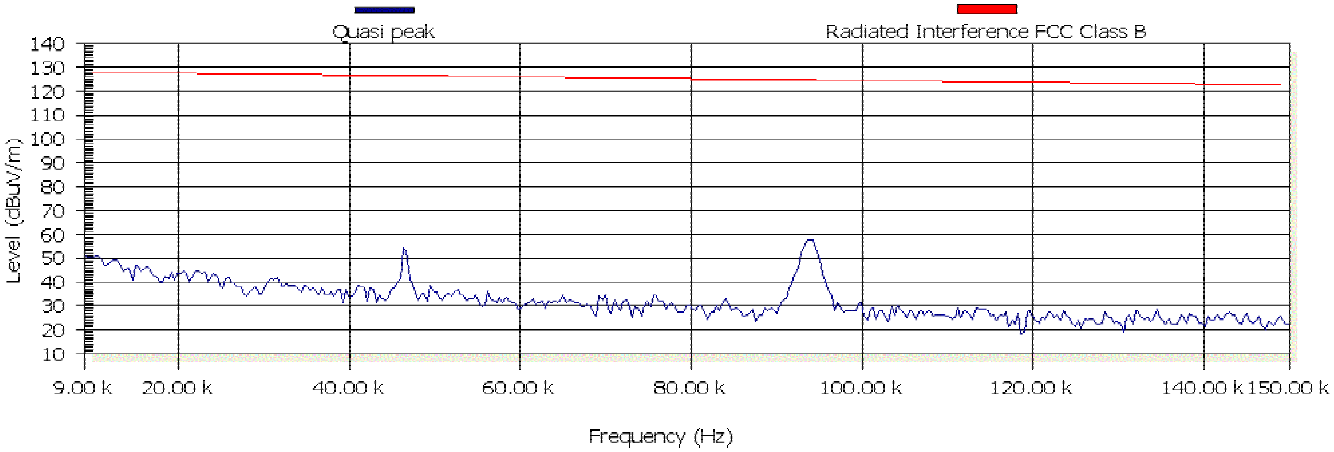
(20) **Transmit Frequency 923MHz for 12.5dbi sq extern GA_900A mode**

Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Horizontal



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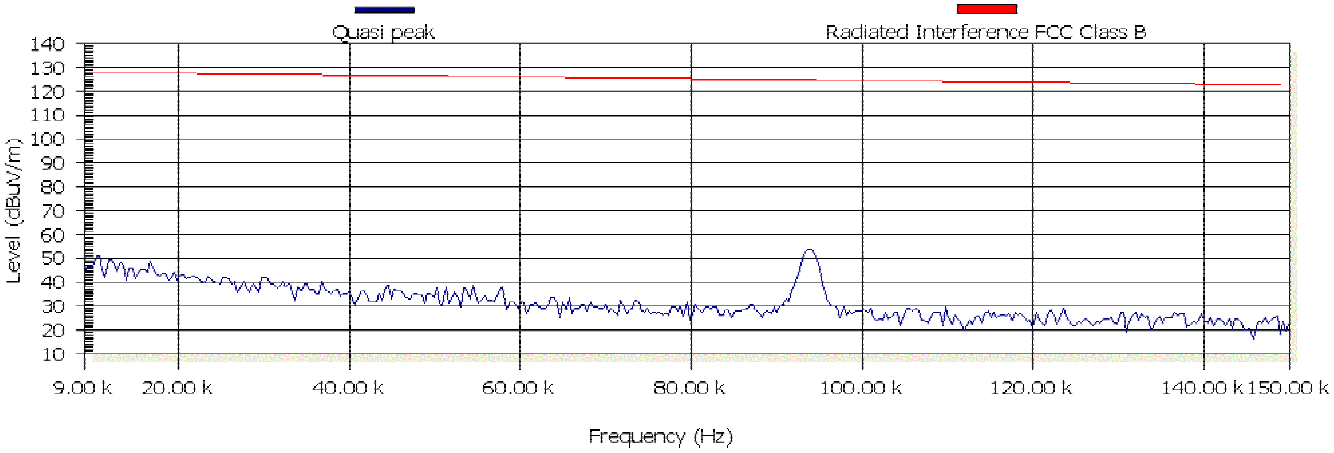
Analyzer setting: RBW-1K, VBW-1MHz, QP detector, Antenna Vertical



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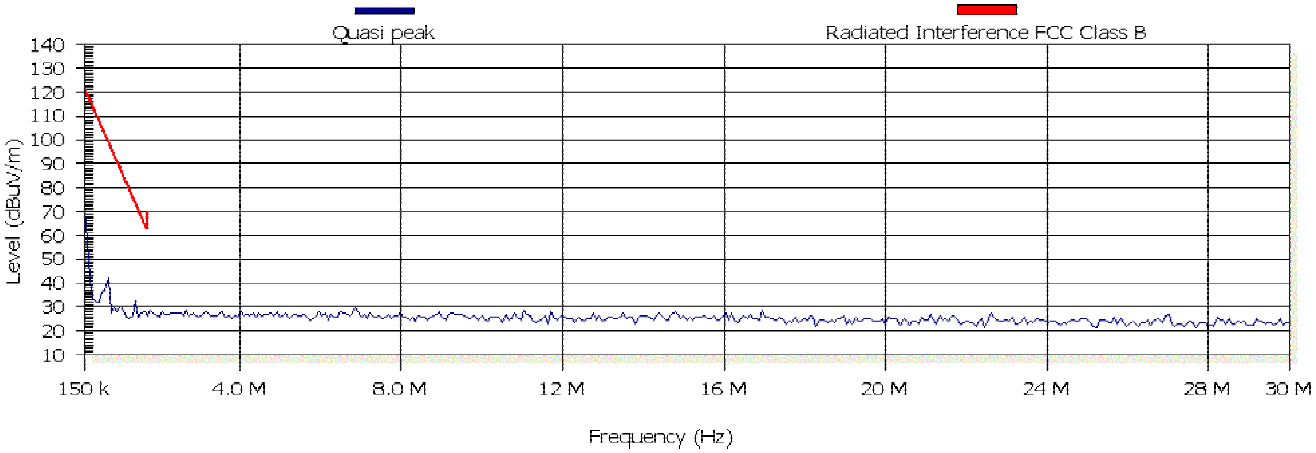
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Horizontal



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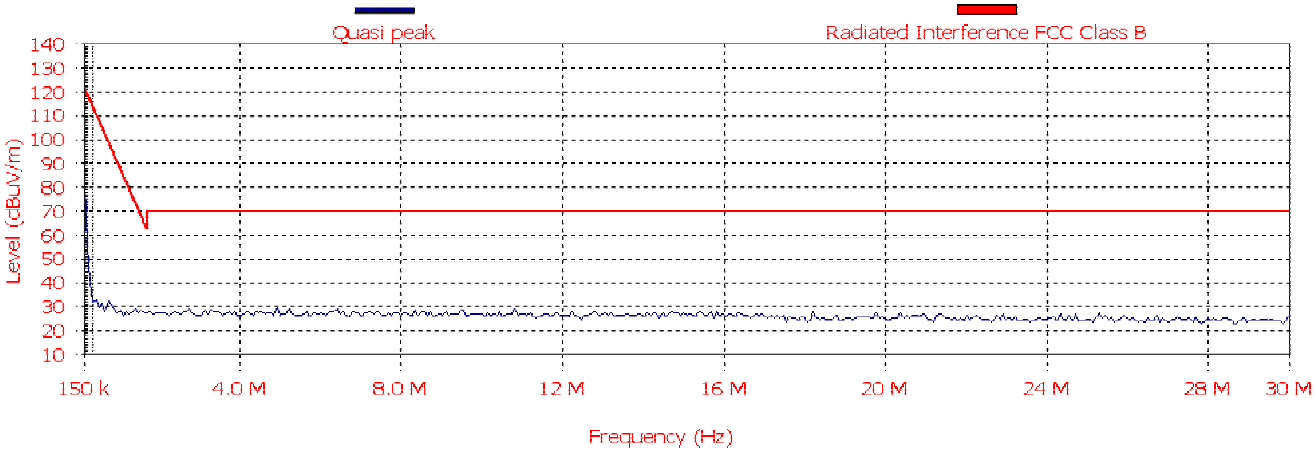
Analyzer setting: RBW-9K, VBW-1MHz, QP detector, Antenna Vertical



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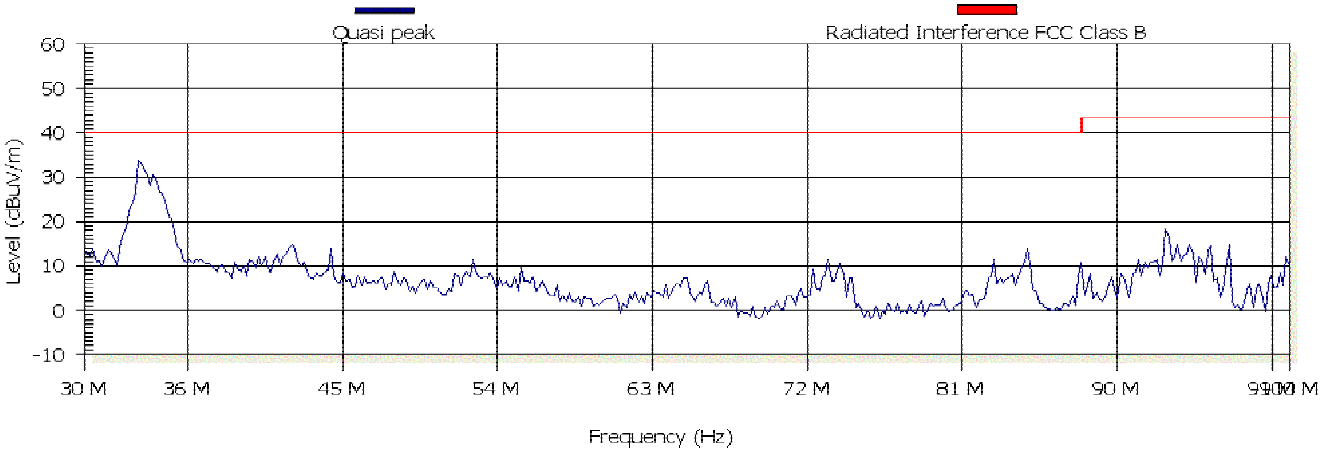
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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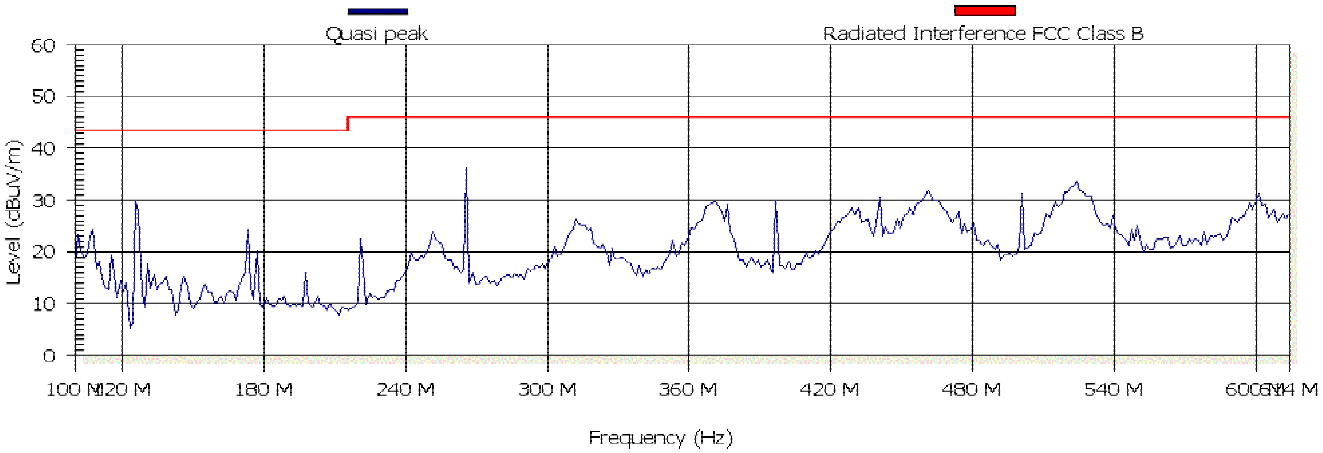
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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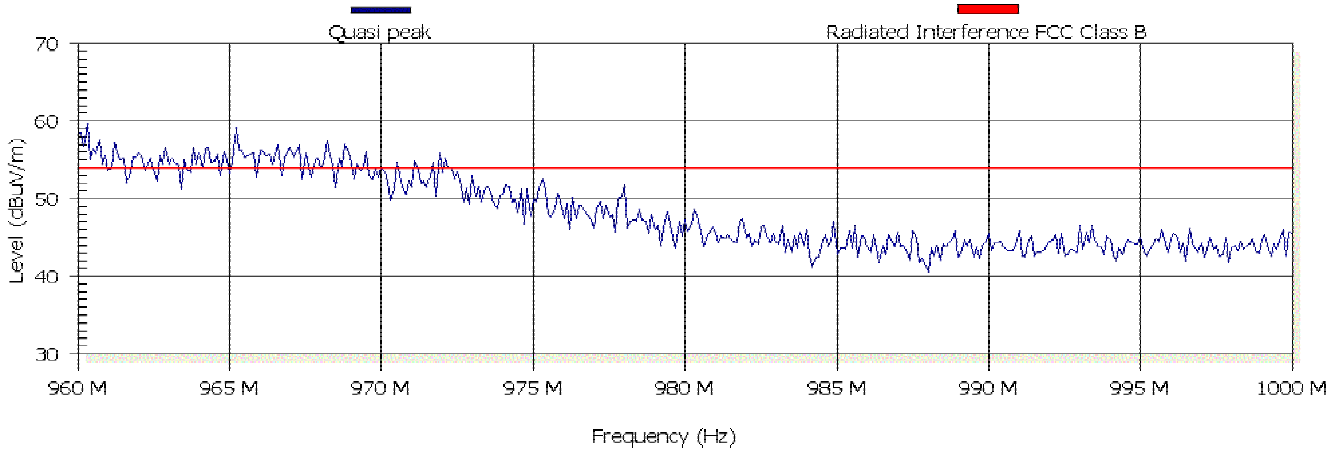
Analyzer setting: RBW-120K, VBW-1MHz, QP detector



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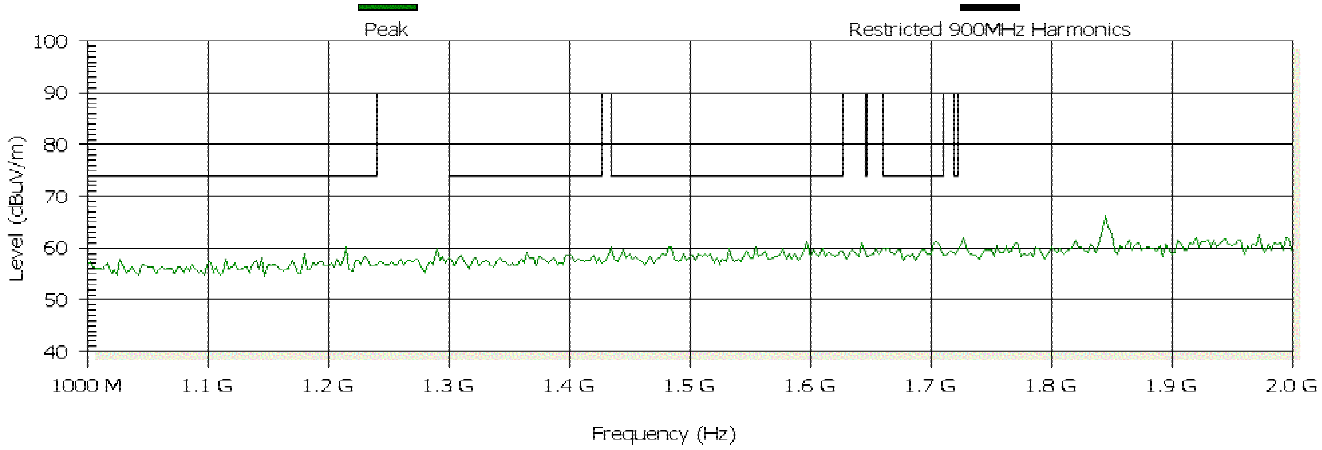
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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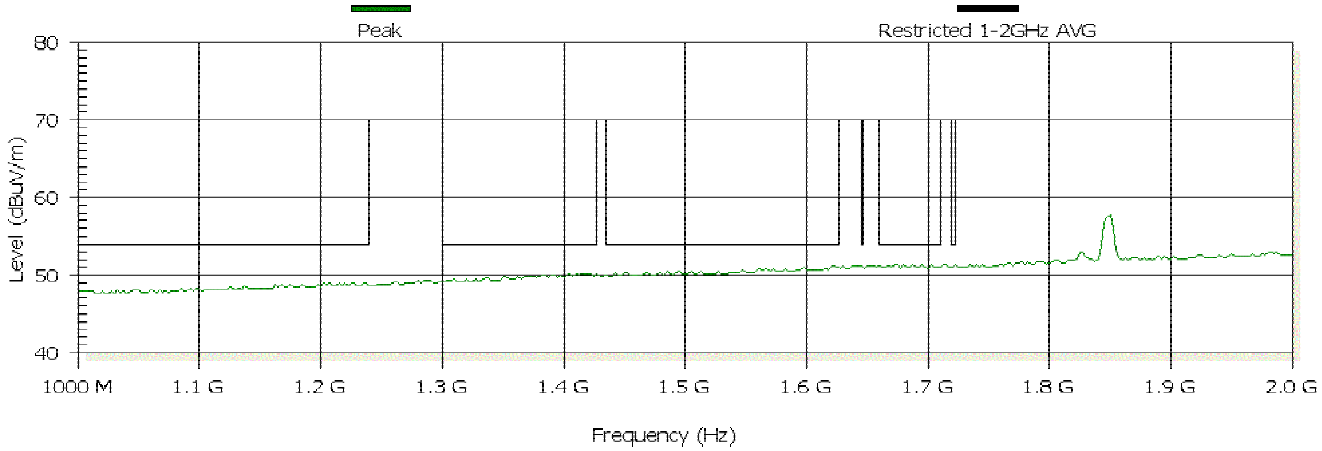
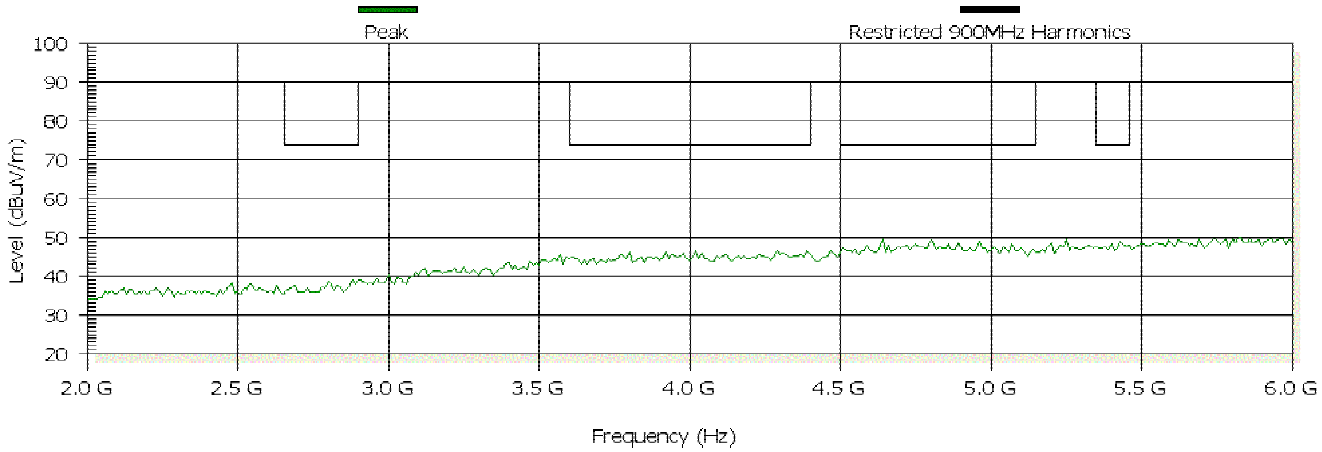
Analyzer setting: RBW-10KHz, VBW-3MHz, average



Plot /269

Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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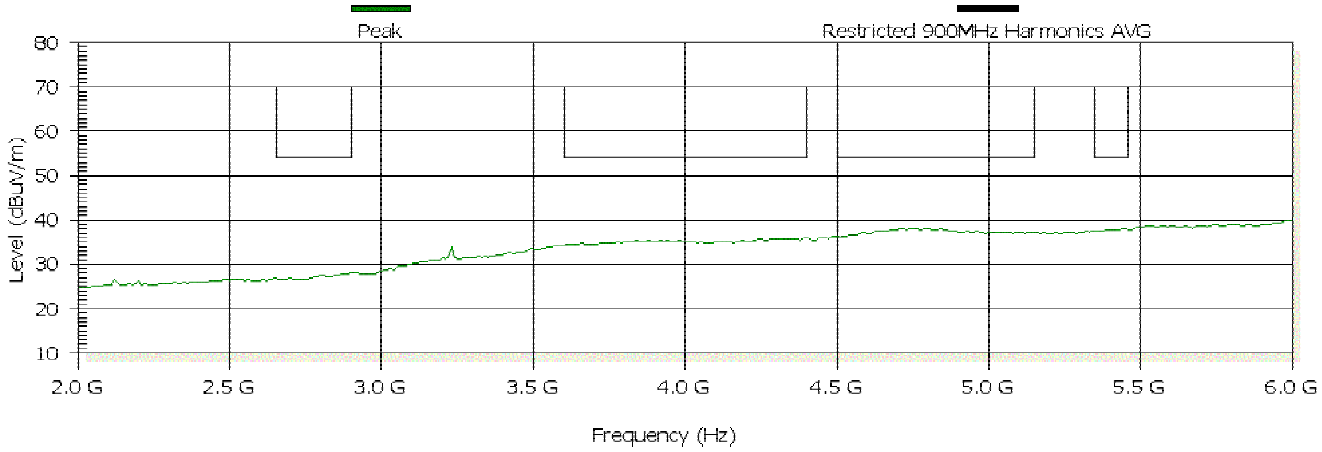
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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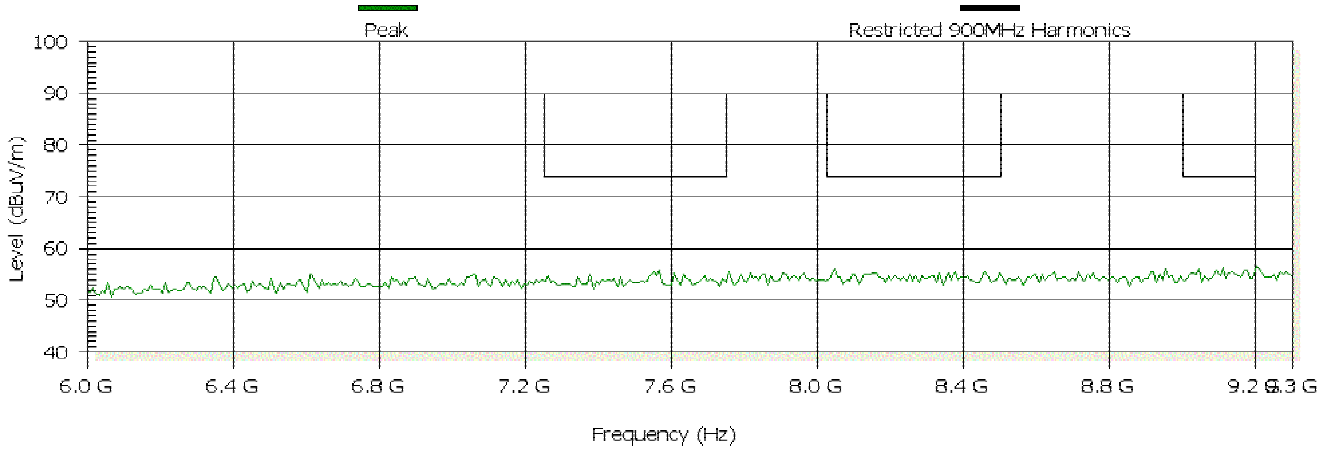
Analyzer setting: RBW-1M, VBW-3MHz, Peak detector



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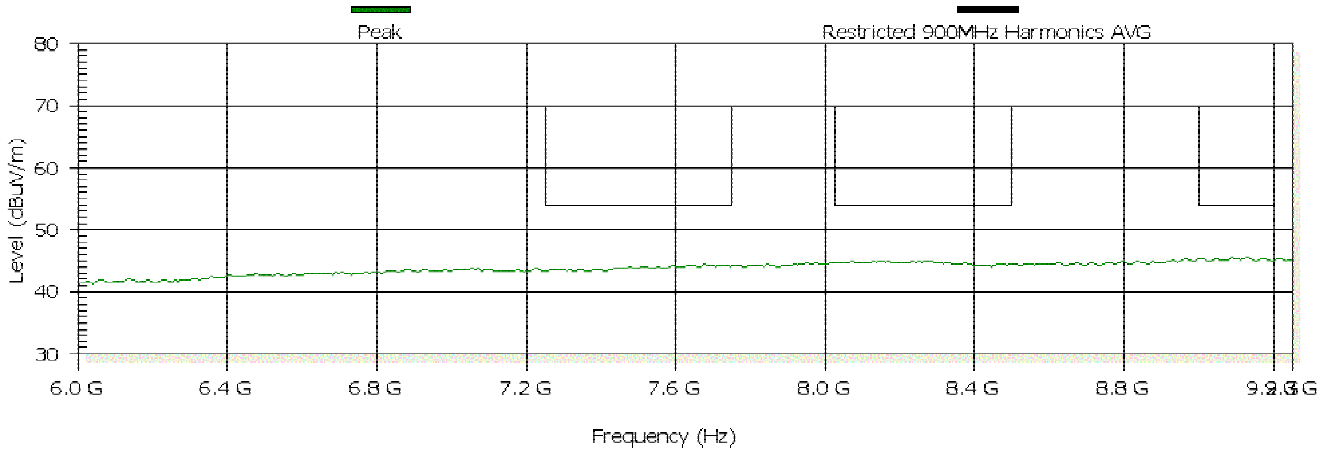
Analyzer setting: RBW-10KHz, VBW-3MHz, average



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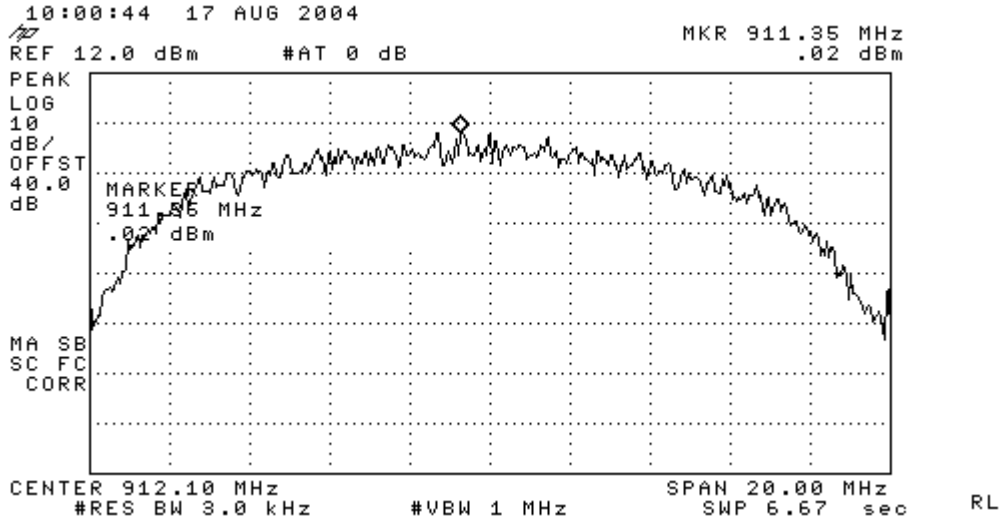
e. **Peak power spectral density of DSSS according 15.247d plots 118 - 129**



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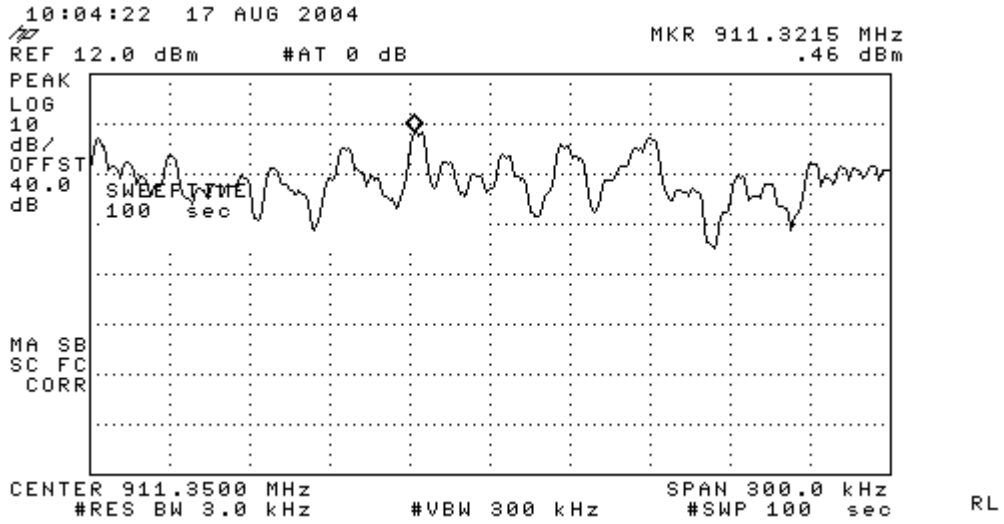

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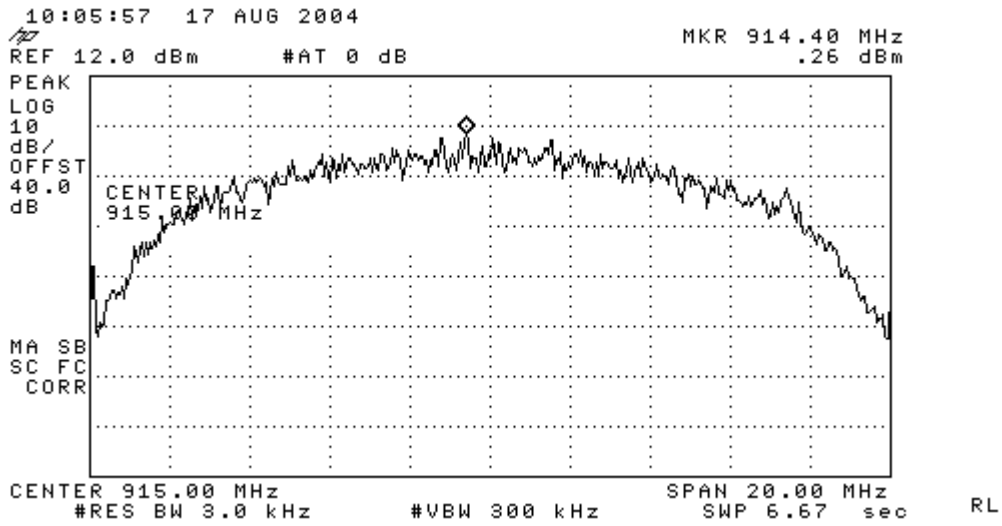

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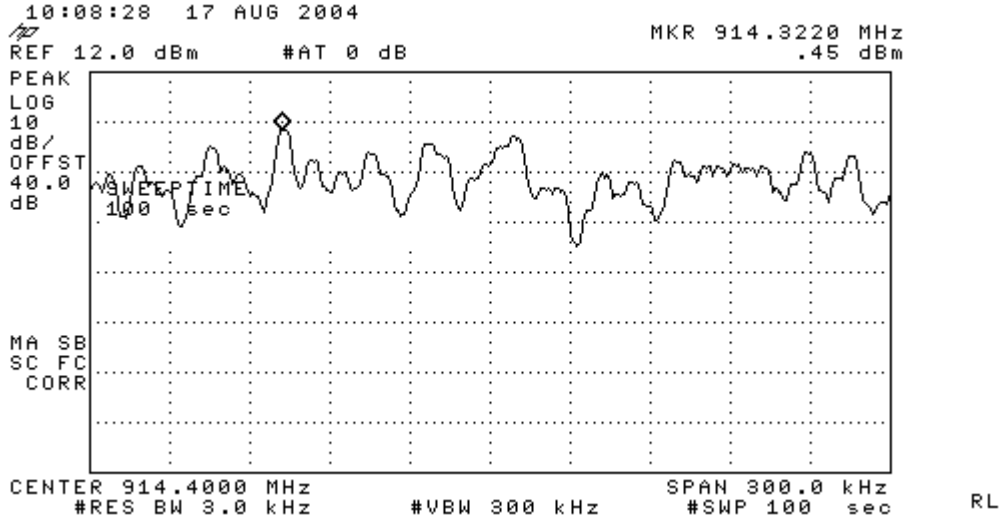

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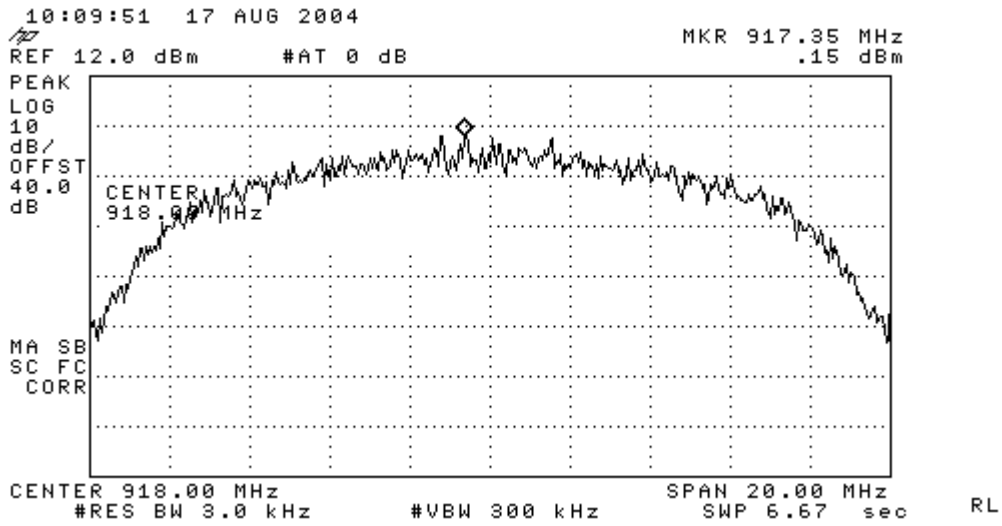

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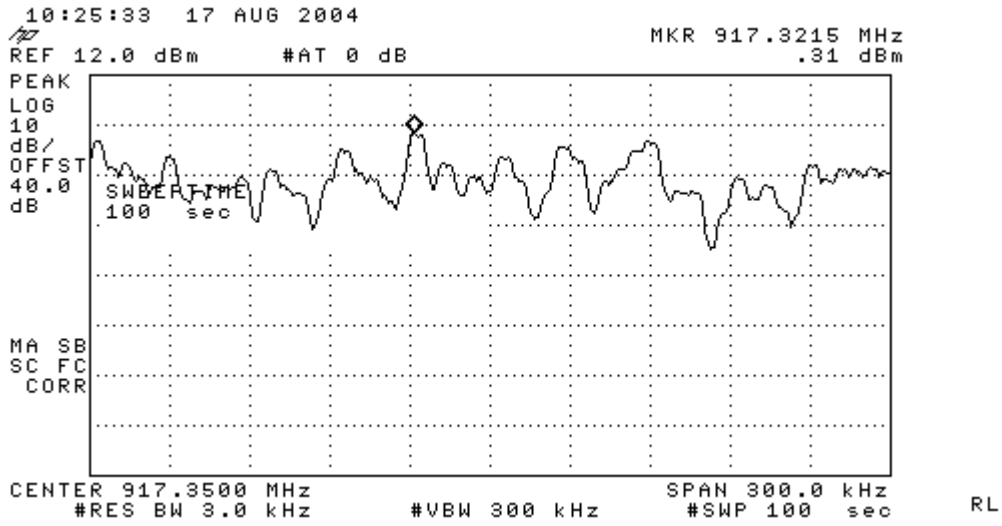

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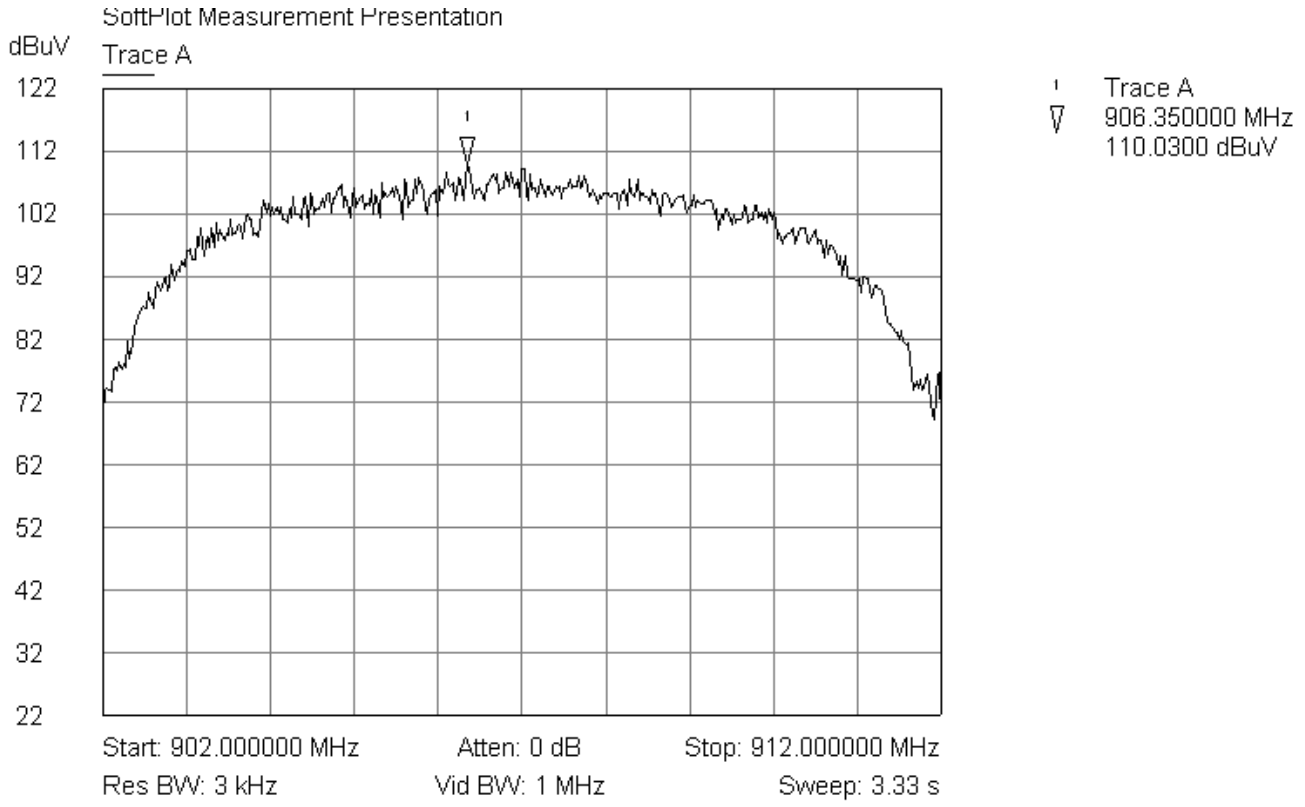

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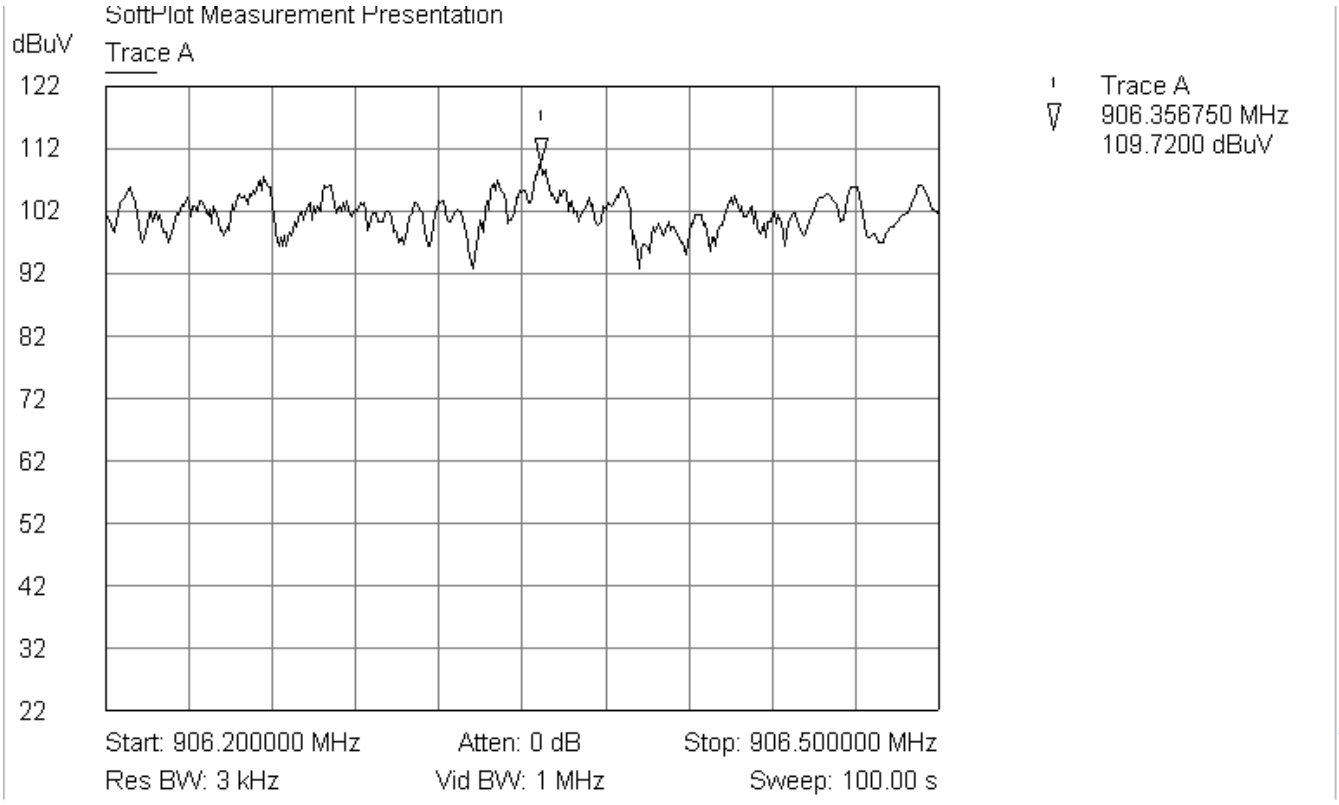

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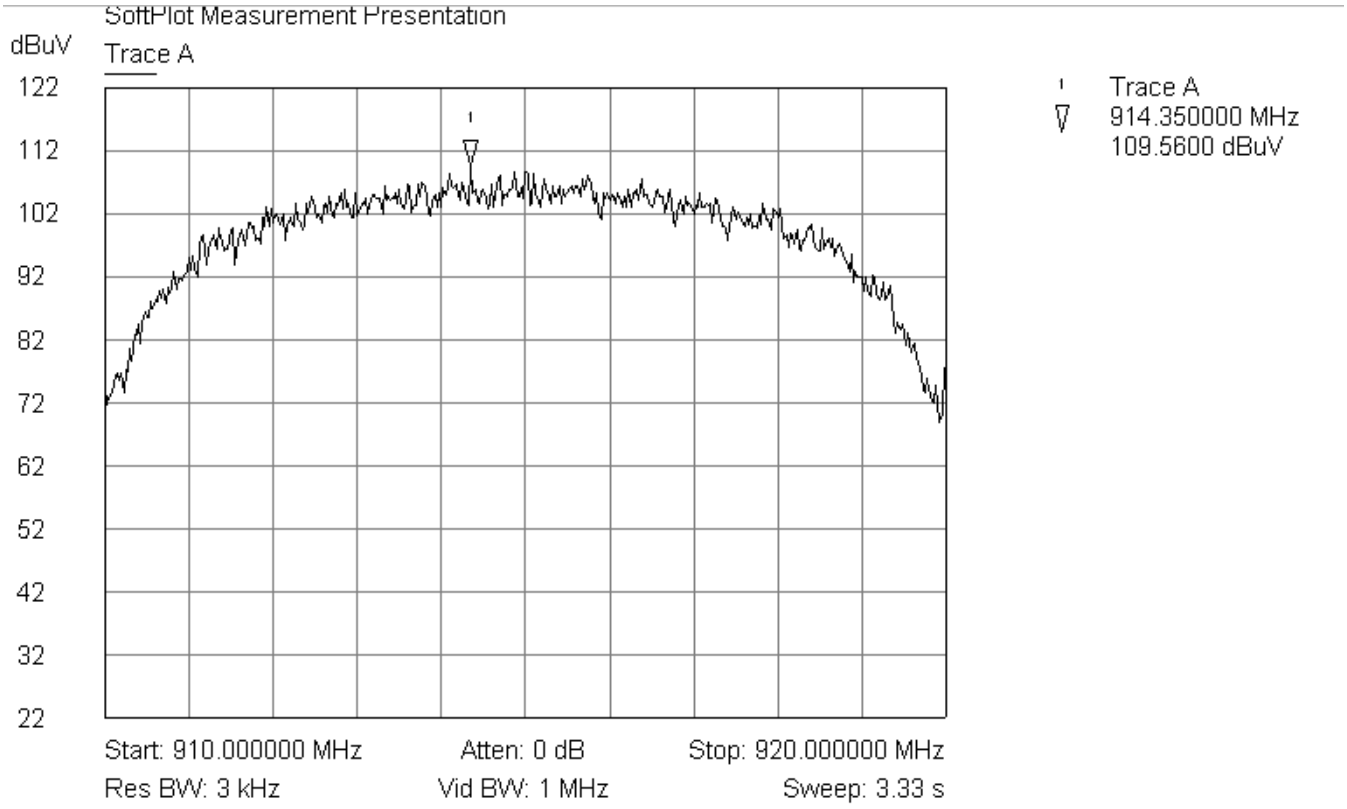
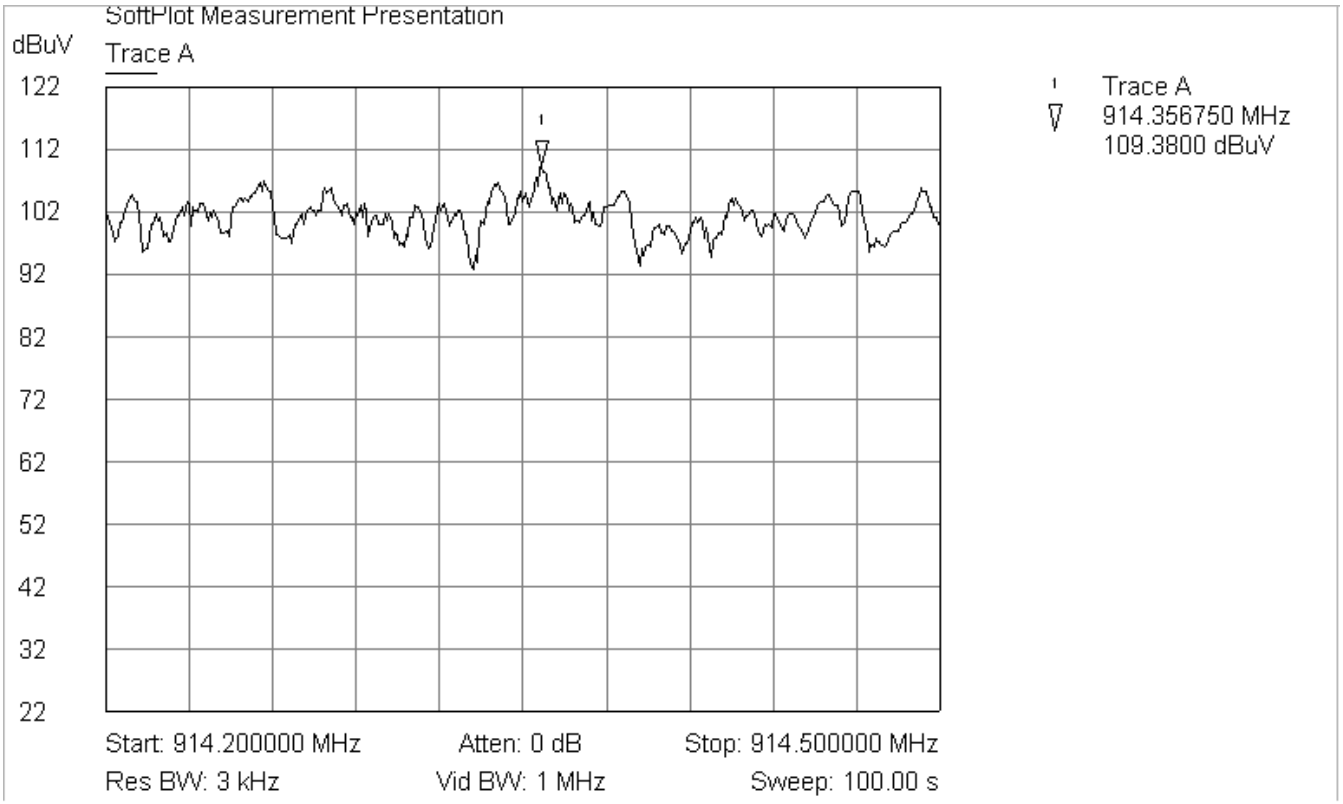


Plot / 282



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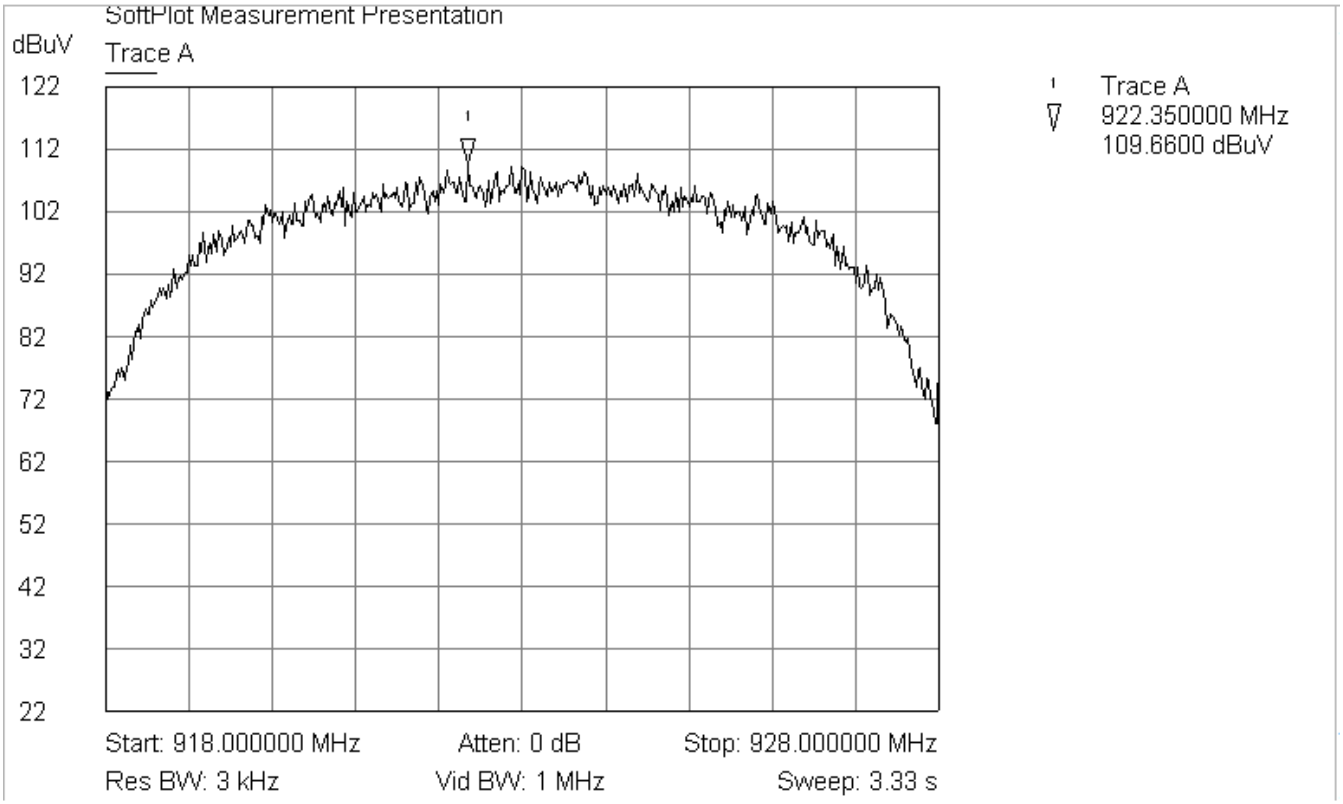

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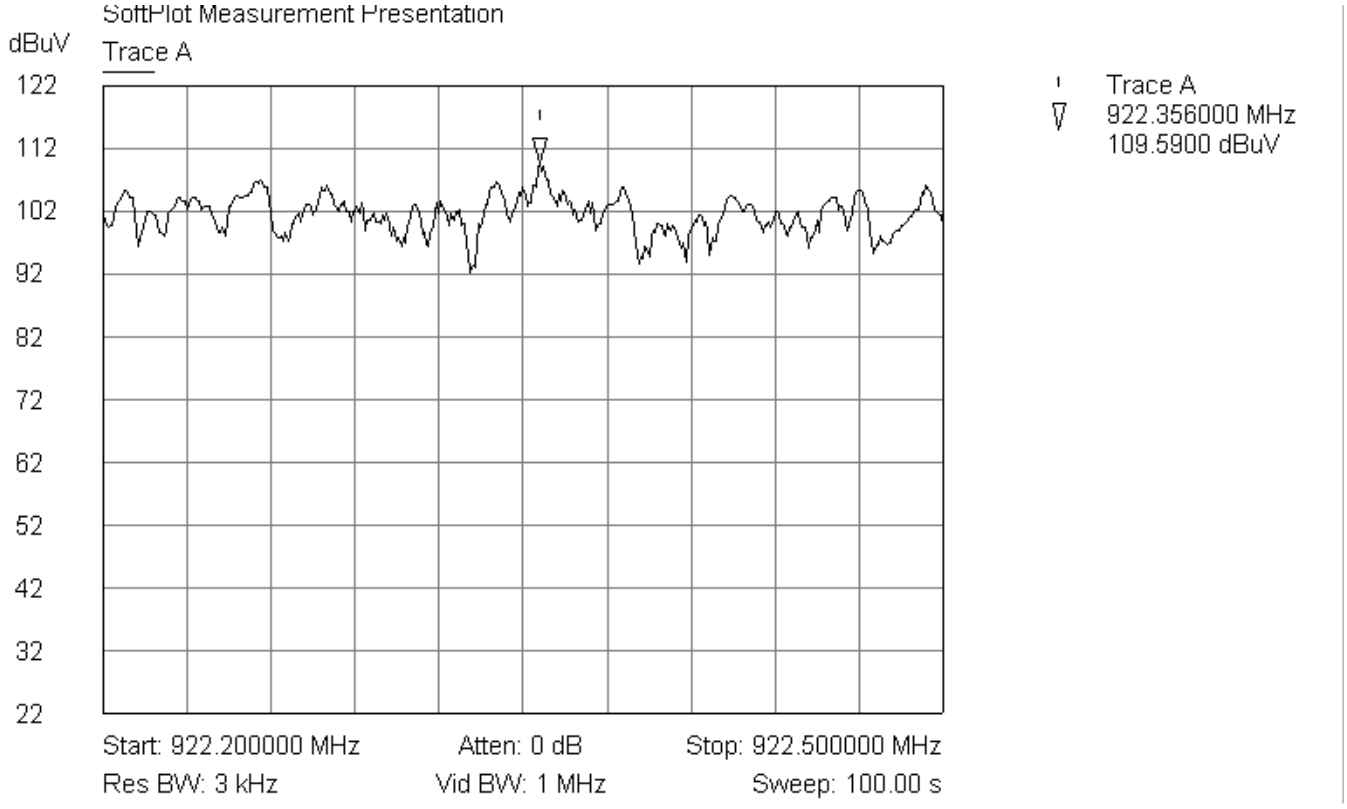

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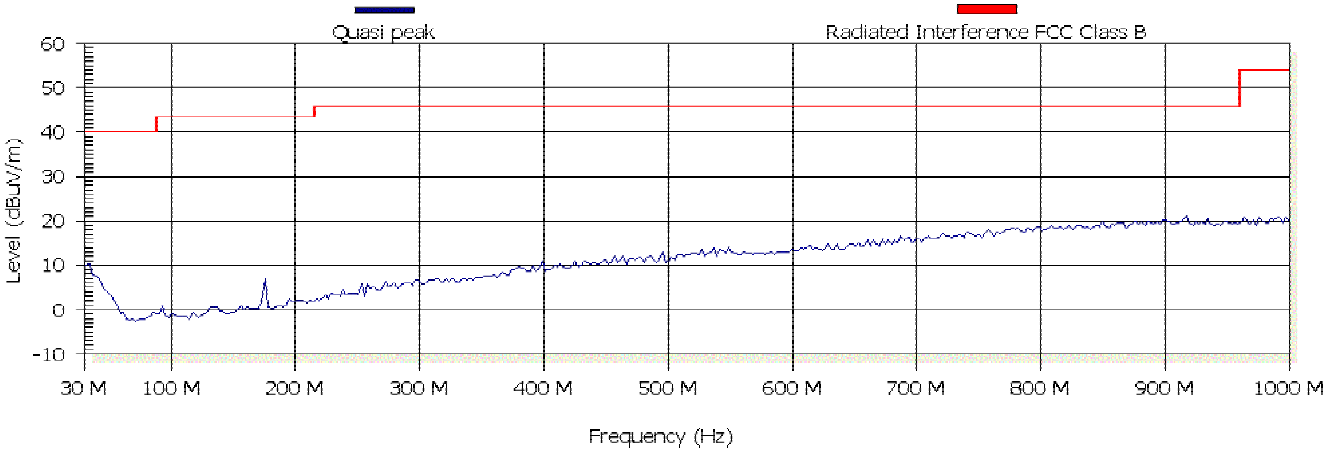
f. Unintentional Radiated Emission Plots



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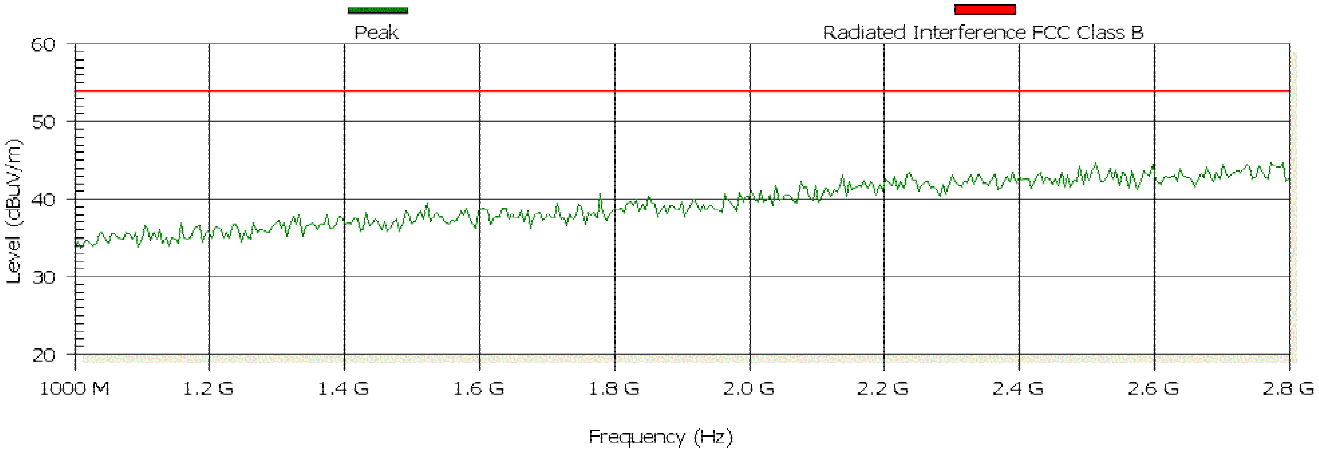

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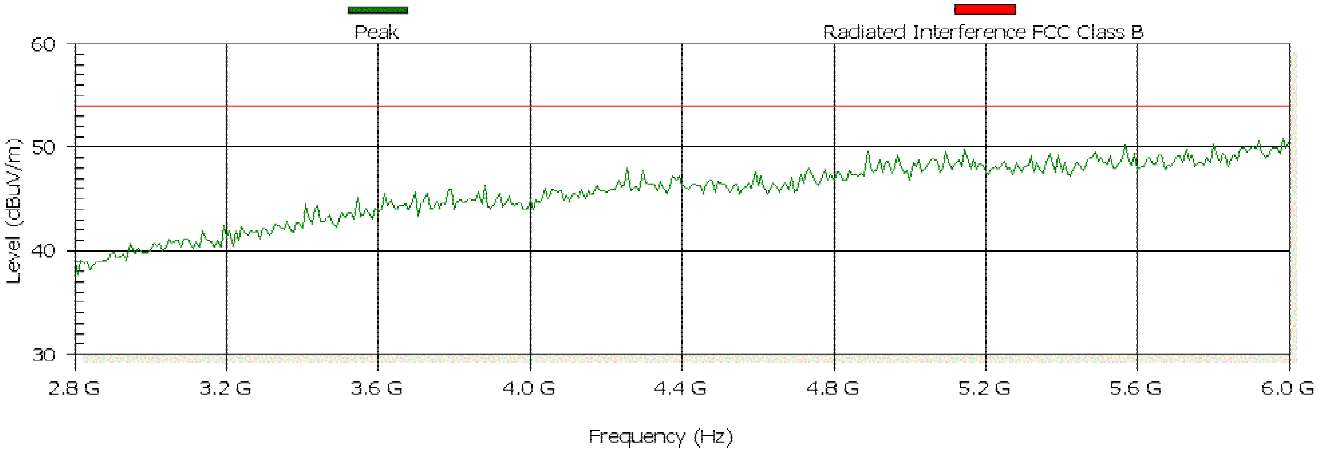

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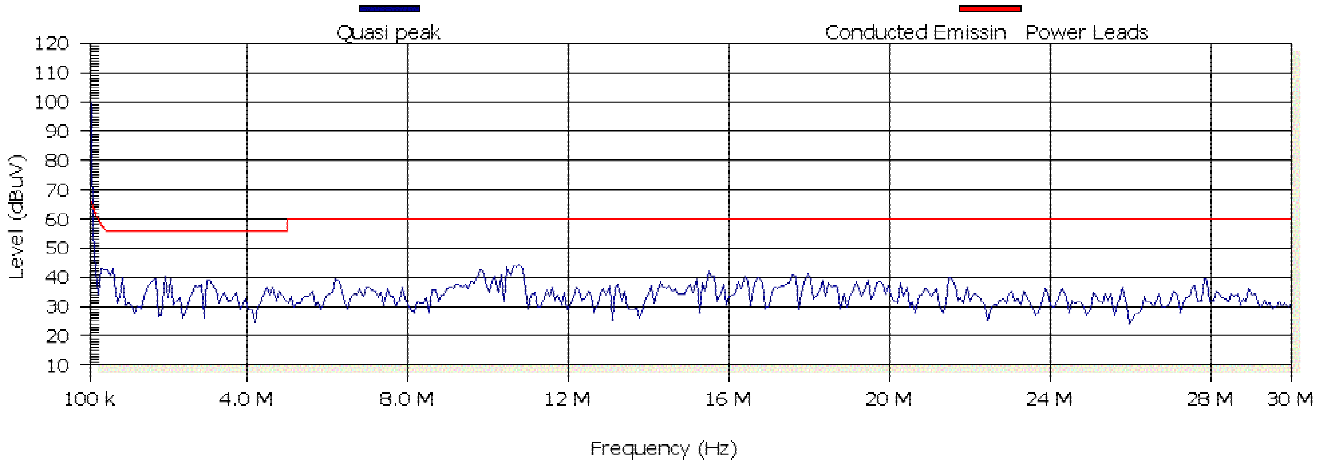
Conducted Emission

(1) **Neutral lead- RBW-9KHz VBW-1000KHz QP Detector**



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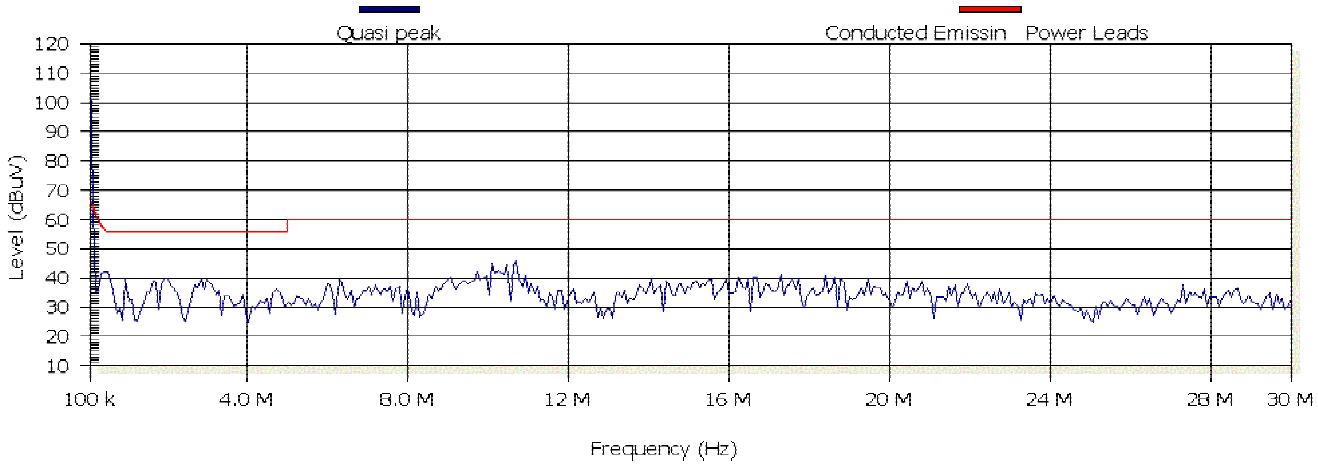
(2) **Phase lead- RBW-9KHz VBW-1000KHz QP Detector**



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(3)

12 CORRECTION FACTORS

Correction Factor for **line impedance stabilization network** model DC-AC-20A-01

Frequency (KHz)	Correction Factor (db)
10	4.4
20	1.6
30	0.8
40	0.4
50	0.3
60	0.25
70	0.15
100	0.1
200	0

DOUBLE RIDGE HORN Model 3105 S/N:00-50C2-1C-C468 2052 Antenna Factor

Frequency (MHz)	Ant. Factor (db/m)
1000	24.4
2000	26.2
3000	30
4000	32.6
5000	33.8
6000	34.9
7000	36.2
8000	36.9
9000	37.8
10000	38.4
11000	39.1
12000	40.1
13000	42
14000	40.6
15000	39.3
16000	40.3

Antenna Factor for broadband antenna model BTA-L S/N:00-50C2-1C-C468 980045L

Frequency (KHz)	Ant. Factor (db/m)	Frequency (KHz)	Ant. Factor (db/m)
30	19.05	300	14.35
32	19.13	310	14.28
34	18.74	320	14.43
36	18.03	330	14.13
38	16.61	340	14.48
40	15.44	350	14.89
45	13.66	360	15.12
50	11.52	370	15.70
55	10.04	380	15.78
60	7.68	390	16.22
65	6.11	400	16,45
70	5.47	425	16.99
75	5.98	450	17.59
80	6.86	475	17.28
85	7.20	500	17.69
90	7.47	525	18.91
95	7.23	550	19.06
100	7.20	575	18.20
105	7.30	600	18.87
110	7.37	625	18.81
115	7.02	650	19.64
120	6.82	675	19.92
125	7.05	700	20.66
130	7.83	725	21.08
135	9.61	750	21.53
140	7.93	775	22.39
145	8.03	800	22.66
150	8.29	825	22.87
160	8.72	850	22.65
170	9.18	875	23.12
180	9.05	900	23.70
190	9.80	925	23.40
200	10.61	950	23.43
210	10.34	975	23.30
220	11.21	1000	24.02
230	11.69		
240	11.62		
250	11.85		
260	12.45		
270	13.16		
280	13.48		
290	13.74		

13 Abbreviations and Acronyms

The following abbreviations and acronyms are applicable in this document

BW	Bandwidth
db	Decibel
EMI	Electromagnetic interference
E.U.T	Equipment under test
LISN	Line impedance stabilization network
RBW	Resolution band width
S/N	Serial number
VBW	Video bandwidth