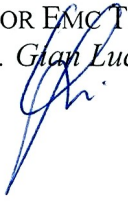





*ELECTROMAGNETIC COMPATIBILITY
ELECTRICAL SAFETY
LASER SPECTROSCOPY
ENVIRONMENTAL PHYSICS*

G.S.D. S.r.l.
Certified in accordance with
UNI EN ISO 9001:2008
by
TÜV Rheinland Italia S.r.l.
Certificate N. 39 00 1850509

G.S.D. Srl PISA - Italy	Test Report n. FCC-16721	Rev. 01
Manufacturer	Extronics Ltd.	
Address	Via Midpoint 18, 1 Dalton Way Middlewich CW10 0HU United Kingdom	
Test Family Name	iRFID500	
	FCC ID: 2AIZEEXTRFID00001	
Testing Laboratory Name	G.S.D. S.r.l.	
Address	Via Marmiceto, 8 56121 Pisa (PI) Italy	
Tel/Fax	+39 050 984254 / +39 050 984262	
P.IVA/VAT	01343950505	
http – e-mail	www.gsd.it - info@gsd.it	
	FCC Listed. Registration Number: 424037.	
Location and Date of Issue	Pisa, 2016 October, 12	
<div style="text-align: center;">G.S.D. s.r.l. Via Marmiceto, 8 56121 OSPEDALETTO - PISA Tel. 050.984254 - Fax 050.984262 P. IVA 01343950505</div> <div style="display: flex; justify-content: space-between;"><div style="text-align: center;"><p>SENIOR EMC TEST MANAGER Dr. Gian Luca Genovesi</p></div><div style="text-align: center;"><p>QUALITY MANAGER Dr. David Pelliccia</p></div></div>		

INDEX

1. MANUFACTURER AND EUT IDENTIFICATION	3
2. REFERENCE STANDARDS.....	5
3. RESULT, CONDITION, MEASUREMENT UNCERTAINTY.....	6
4. RADIATED EMISSIONS.....	8
5. POWER LINES CONDUCTED EMISSIONS.....	19
6. OPERATION WITHIN THE BAND 902 - 928 MHz.....	24
6.1. NUMBER OF HOPPING CHANNEL.....	24
6.2. CARRIER FREQUENCY SEPARATION.....	25
6.3. TIME OF OCCUPANCY.....	28
6.4. 20 dB BANDWIDTH.....	35
6.5. PEAK OUTPUT POWER.....	42
6.6. BAND EDGE.....	49
7. RADIATED OPERATION WITHIN THE BAND 902 - 928 MHz.....	56
7.1. SPURIOUS RADIATED EMISSIONS	56
8. PHOTO.....	59

Report Revision History

Revision details

<i>Date</i>	<i>Page No.(s)</i>	<i>Details</i>
2016 September, 30	62	Rev. 00 Initial issue
2016 October, 12	62	Rev. 01 Measurement uncertainty added Restricted band results added into Summary of Test Results

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Report n. FCC-16721 Rev. 01, page 2 / 62

1. MANUFACTURER AND EUT IDENTIFICATION¹	
Manufacturer	Extronics Ltd..
Address	Via Midpoint 18, 1 Dalton Way Middlewich CW10 0HU United Kingdom
Test Family Name	iRFID500
	FCC ID: 2AIZEEXTRFID00001
Date of reception	2016 August 22
Sampling	Laboratory sample for certification
Test Item Description	RFID Device
Nominal Input Voltage	5 Vdc (USB)

¹A detailed documentation is preserved in the internal fascicle.

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Report n. FCC-16721 Rev. 01, page 3 / 62



*Fig. 1.1
Equipment Photo*

2. REFERENCE STANDARDS

Tests and measurements are performed accordingly to the reference standards given in the table below:

<i>TEST</i>	<i>STANDARD</i>
Emissions: Conducted and Radiated – Section 15.207 and 15.209	<p>FCC Rules and Regulations, Title 47 Part 15 – Sub part C</p> <p>ANSI C63.4 2014 – American National Standard for Methods of Measuring of Radio-Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz</p> <p>ANSI C63.10 2013 – American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices</p>
Operation within the band 902-928 MHz: Alternative Test Procedures 15.247 (b) and (c) , and (a) Bandwidth and average time of occupancy, Band Edge 15.247 (d)	<p>FCC Rules and Regulations, Title 47 Part 15 – Sub part C</p> <p>DA 00-705 (30 March 2000) – Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems</p> <p>ANSI C63.4 2014 – American National Standard for Methods of Measuring of Radio-Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz</p> <p>ANSI C63.10 2013 – American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices</p> <p>412172 D01 Determining ERP and EIRP v01r01 GUIDELINES FOR DETERMINING THE EFFECTIVE RADIATED POWER (ERP) AND EQUIVALENT ISOTROPICALLY RADIATED POWER (EIRP) OF AN RF TRANSMITTING SYSTEM</p>

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Report n. FCC-16721 Rev. 01, page 5 / 62

3. RESULT, CONDITION, MEASUREMENT UNCERTAINTYSummary of Test Results

<i>TEST</i>	<i>RESULT</i>
Emissions: conducted Section 15.207	Pass
Emissions: radiated Section 15.209	Pass
Bandwidth and Average Time of Occupancy Section 15.247 (a)	Pass
Operation within the band 902-928 MHz: Section 15.247 (b) and (c)	Pass
Band Edge Section 15.247 (d)	Pass
Restricted Bands	Pass

Measurement uncertainty

<i>TEST</i>	<i>EXPANDED UNCERTAINTY</i>
Conducted Emission – 50Ω/50μH (150 kHz - 30 MHz)	± 3.5 dB
Radiated Emission – (Semianechoic Room) (30 MHz - 18 GHz)	± 4.7 dB
Bandwidth – Frequency Separation	< 1%
Time of occupancy	< 0.5%

Climatic Conditions

<i>PARAMETER</i>	<i>VALUE</i>
Temperature	(294 ± 3) K
Relative humidity	(50 ± 5) %

Extensions

The results refer only to the sampled EUT and under the specified conditions.

Modulations:

Type: PR ASK 40 kHz

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Report n. FCC-16721 Rev. 01, page 6 / 62

4. RADIATED EMISSIONS

In the following table you can find the limits established by the reference standard:

FREQUENCY RANGE (MHz)	<i>Field Strength</i> <i>PEAK</i> <i>LIMITS</i> [dB (μV/m)]	<i>Field Strength</i> <i>QUASI-PEAK LIMITS</i> [dB (μV/m)]	<i>Field Strength</i> <i>AVERAGE LIMITS</i> [dB (μV/m)]
0.009 – 0.490	--	48.15 – 13.8 @ 300m	--
0.490 – 1.705	--	33.8 – 23 @ 30m	--
1.705 – 30	--	29.5 @ 30m	--
30 ÷ 88	--	40 @ 3m	--
88 ÷ 216	--	43,5 @ 3m	--
216 ÷ 960	--	46 @ 3m	--
960 ÷ 1000	--	54 @ 3m	--
>1000	74 @ 3m	--	54 @ 3m

Test Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DUE
MXE EMI Receiver	Agilent/Keysight	N9038A	01/2017
Anechoic Chamber	Comtest	CSA01	01/2017
Bilog Antenna	Schaffner	CBL6112B	01/2017
Horn Antenna	EMCO	3115	01/2017
Controller	Deisel	HD100	01/2017
Turn Table	Deisel	MA240	01/2017
LISN	GSD	NTW06	01/2017

Test procedure: RE22R02Notes

Azimuth position EUT-Antenna corresponding to 0° identifies the rotating table orientation (TT) in which the instrument to be tested shows the front part turned towards the antenna. Positive grades individuate clockwise rotations of TT when this one is observed from the top. For negative degrees, TT rotation is counter-clockwise.

Antenna height respect to the mass plane is conventionally individuated with: MA=XXX where XXX indicates the height (always positive and greater than 100) expressed in cm.

Antenna horizontal polarisation is indicated by POL=H.

Antenna vertical polarisation is indicated by POL=V.

EUT was tested in the three orthogonal planes.

Results and conclusions

In all the operative conditions, equipment complied with the standard limits. Graphics in following figures show the most significant registrations of the performed measurements.

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Report n. FCC-16721 Rev. 01, page 8 / 62

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

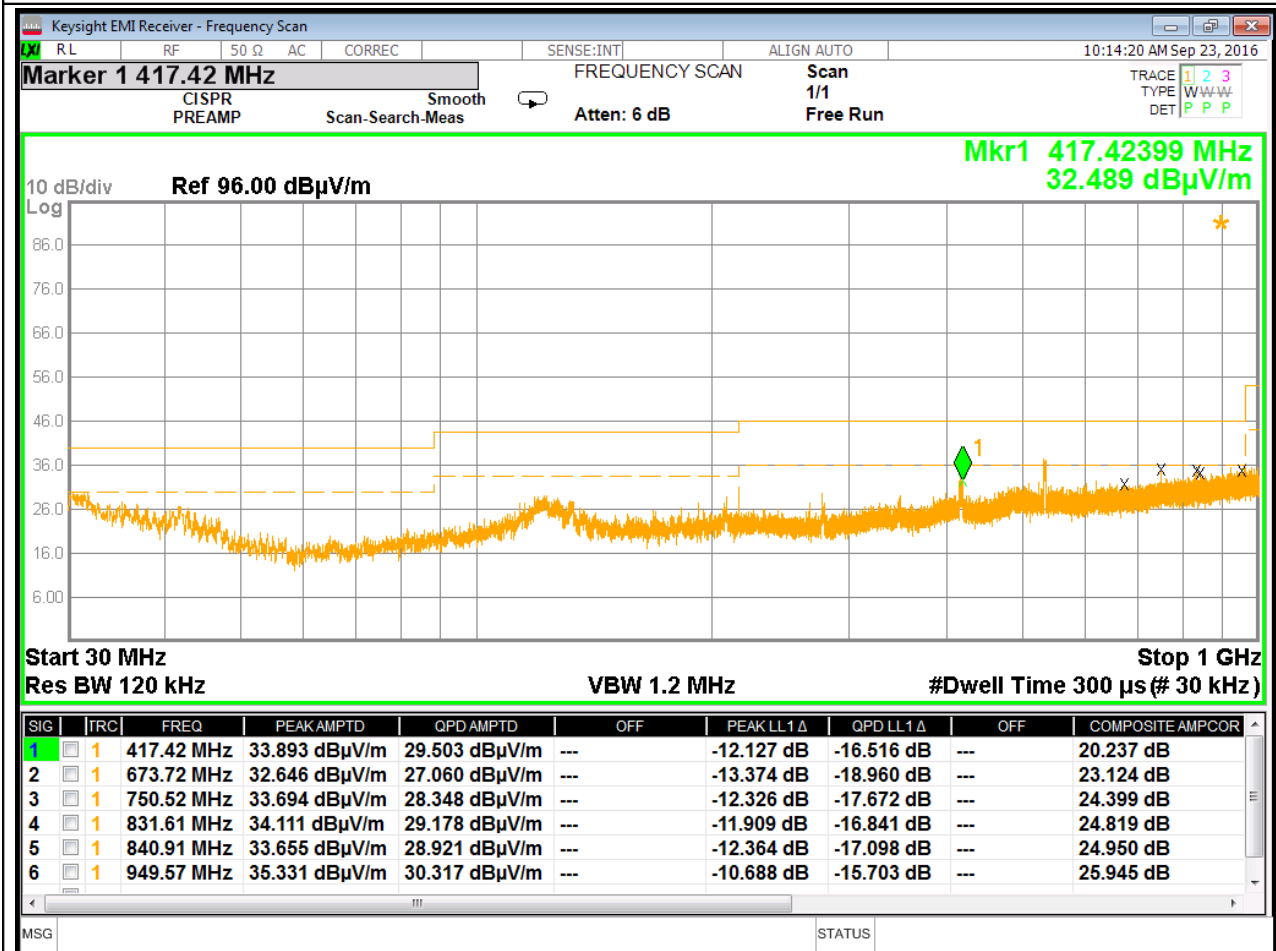


Fig. 4.1

POL V
 MA: 100 cm
 TT: 0°
 EUT mode: Standby

*Record of the measurement of radiated emissions (PK)
 Maximum disturbance determined in the frequency range 30 – 1000 MHz, Pol. V.*

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

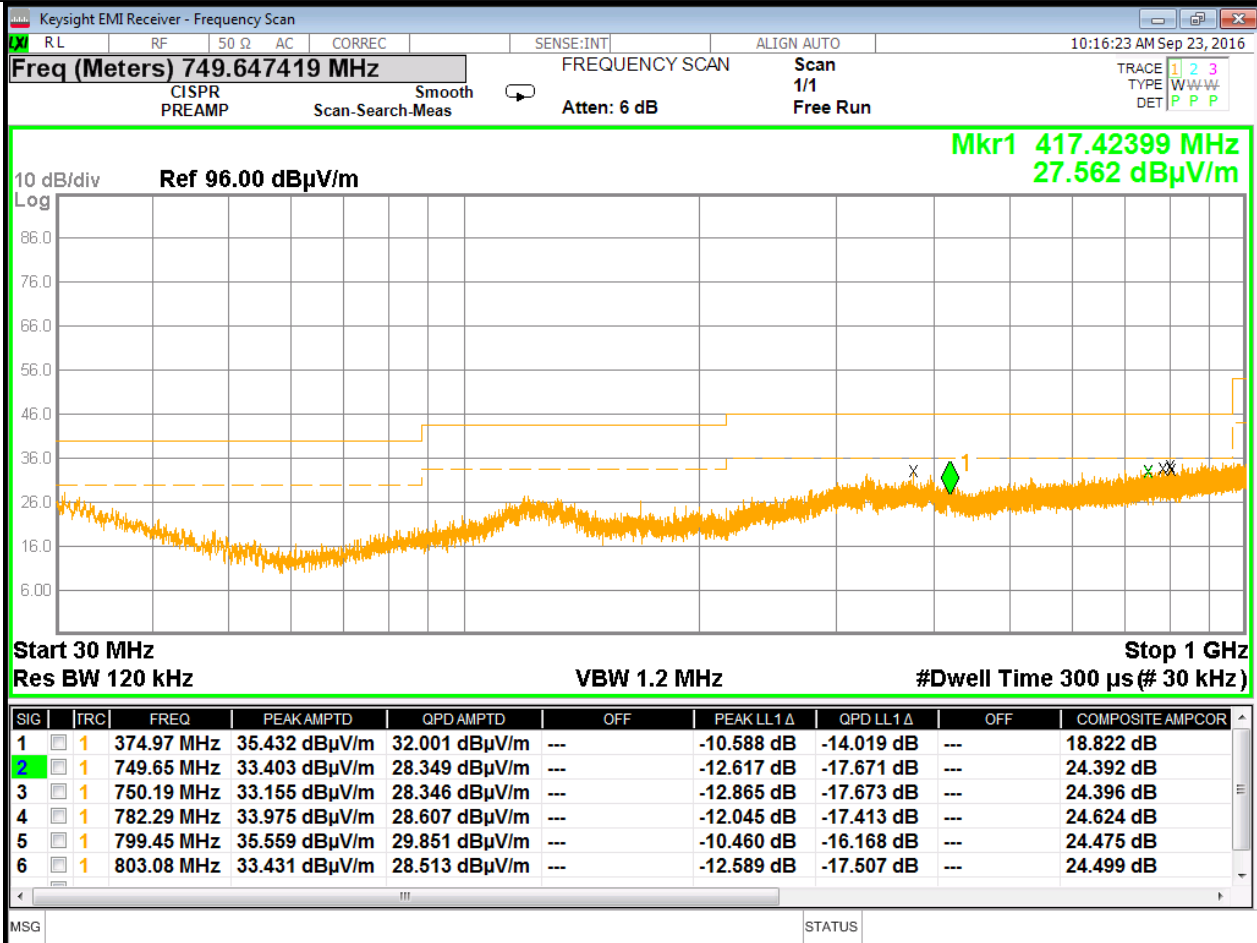


Fig. 4.2

POL H
 MA: 100 cm
 TT: 0°
 EUT mode: Standby

*Record of the measurement of radiated emissions (PK)
 Maximum disturbance determined in the frequency range 30 – 1000 MHz, Pol. H.*

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Job Number FCC-16721
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 EUT Name Extronics Ltd. - iRFID500

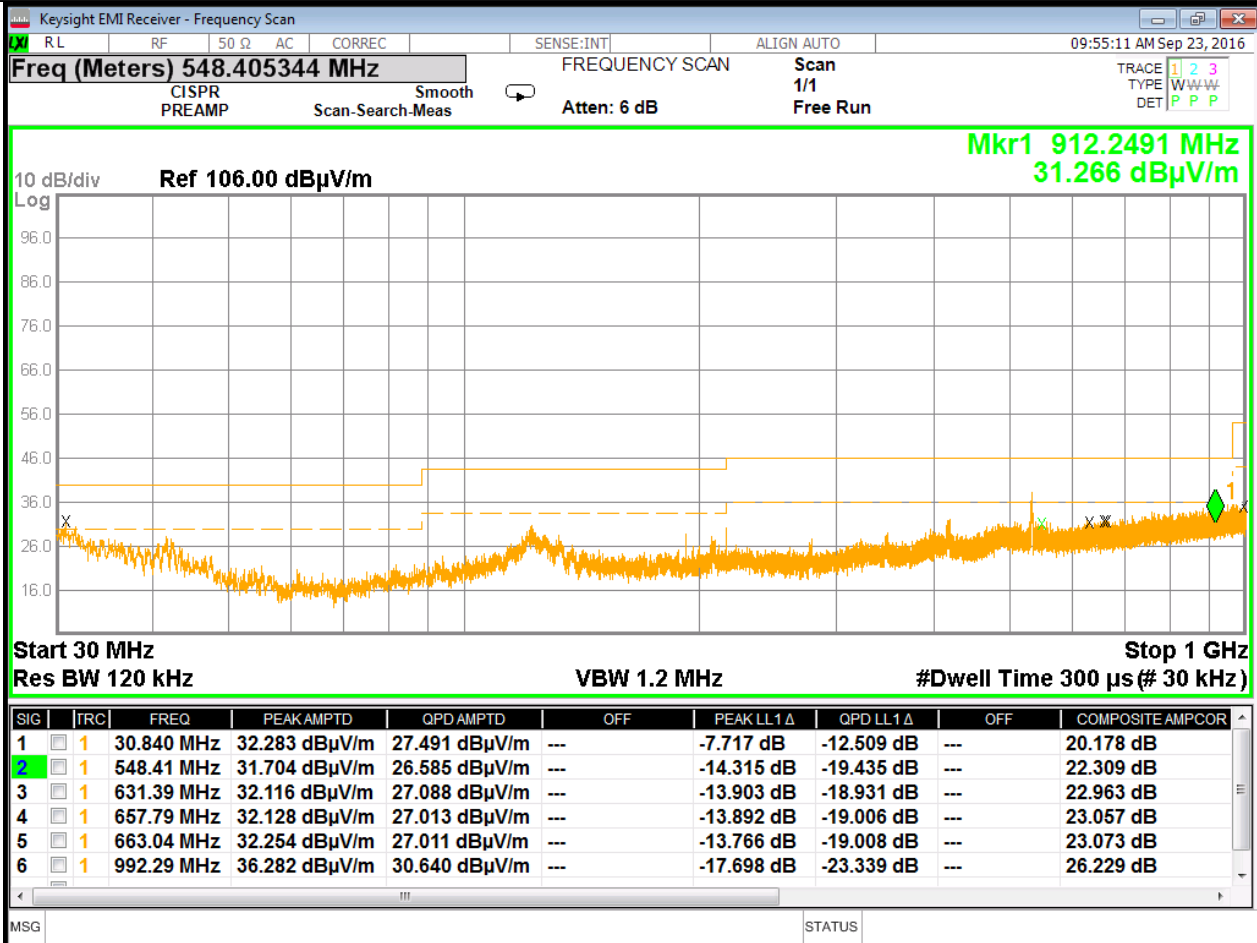


Fig. 4.3

POL V
 MA: 100 cm
 TT: 0°
 EUT mode: Modulation

*Record of the measurement of radiated emissions (PK)
 Maximum disturbance determined in the frequency range 30 – 1000 MHz, Pol. V.*

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

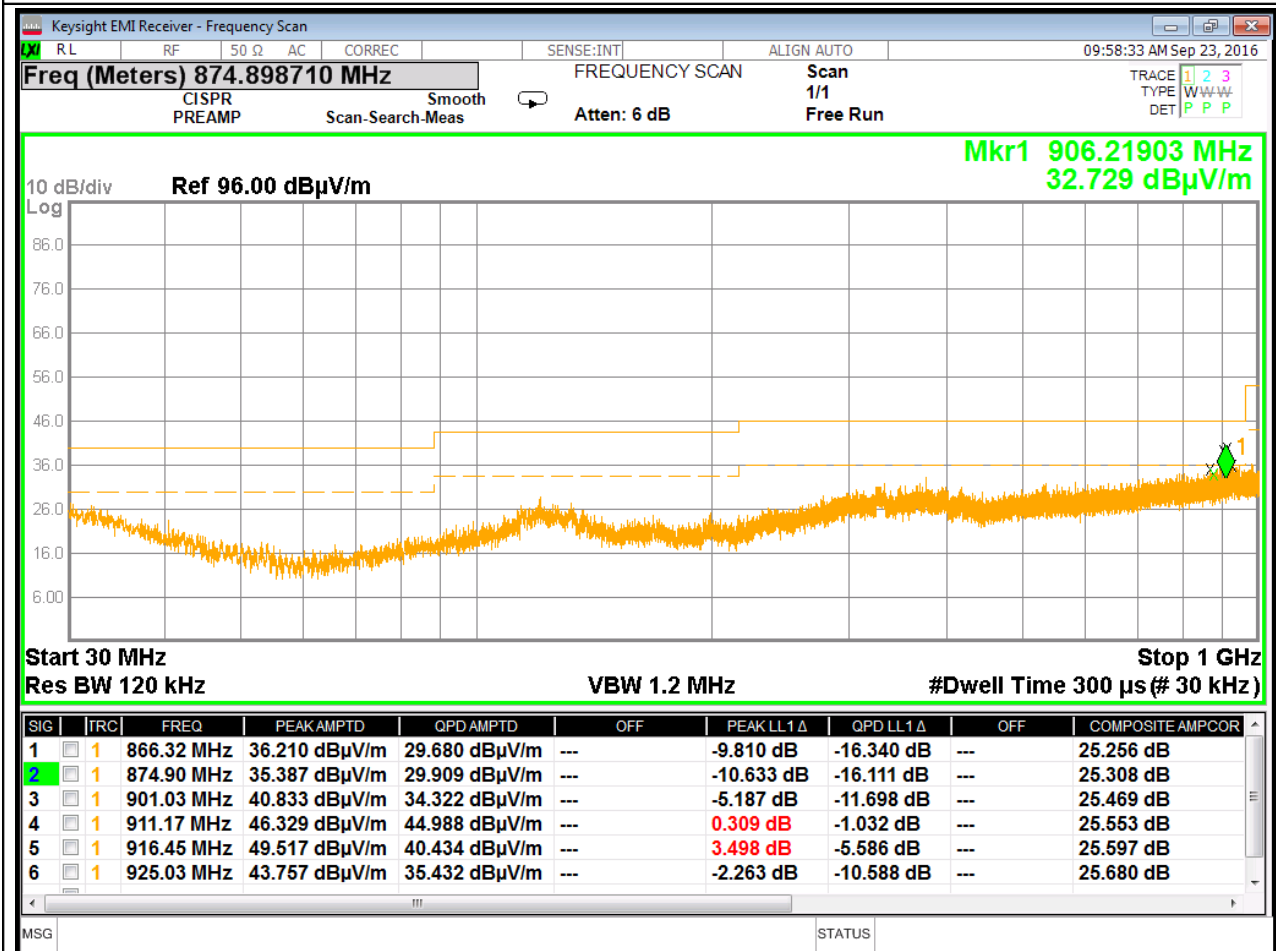


Fig. 4.4

POL H
 MA: 100 cm
 TT: 0°
 EUT mode: Modulation

*Record of the measurement of radiated emissions (PK)
 Maximum disturbance determined in the frequency range 30 – 1000 MHz, Pol. H.*

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

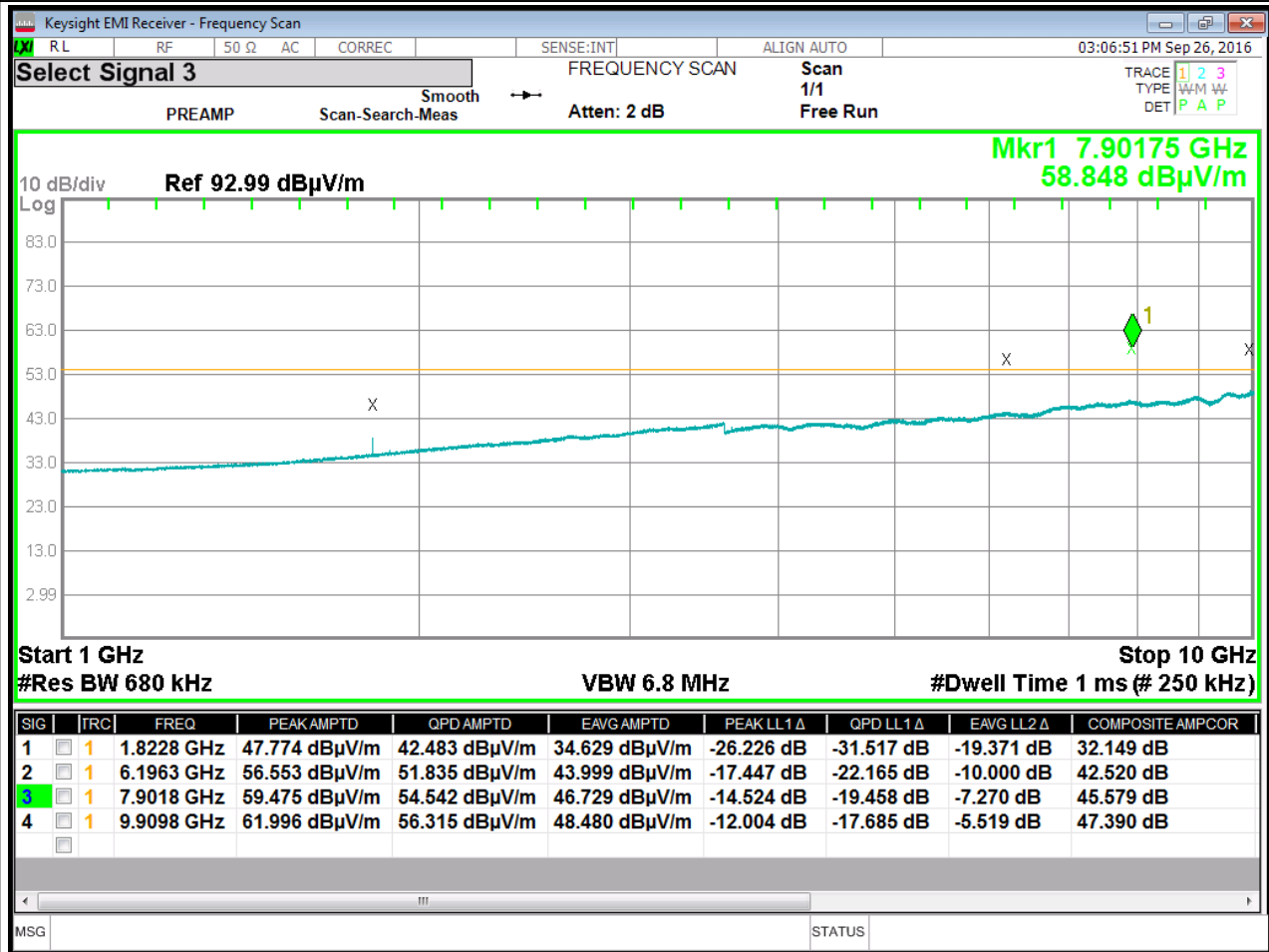


Fig. 4.5

POL V
 MA: 100 cm
 TT: 0°
 EUT mode: Modulation

*Record of the measurement of radiated emissions (AVG detector)
 Maximum disturbance determined in the frequency range 1 – 10 GHz, Pol. V.*

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

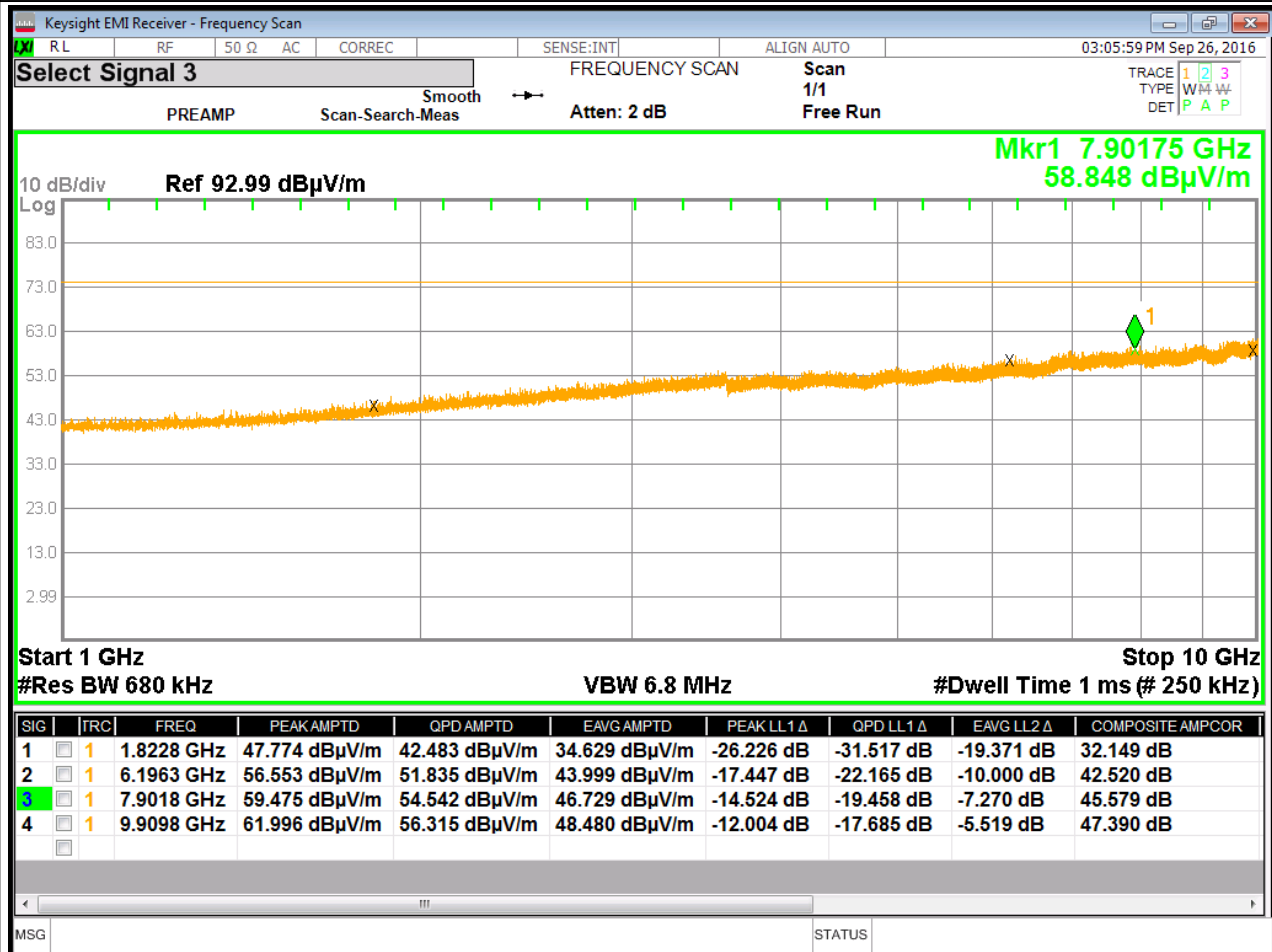


Fig. 4.6

POL V
 MA: 100 cm
 TT: 0°
 EUT mode: Modulation

Record of the measurement of radiated emissions (Peak detector)
 Maximum disturbance determined in the frequency range 1 – 10 GHz, Pol. V.

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

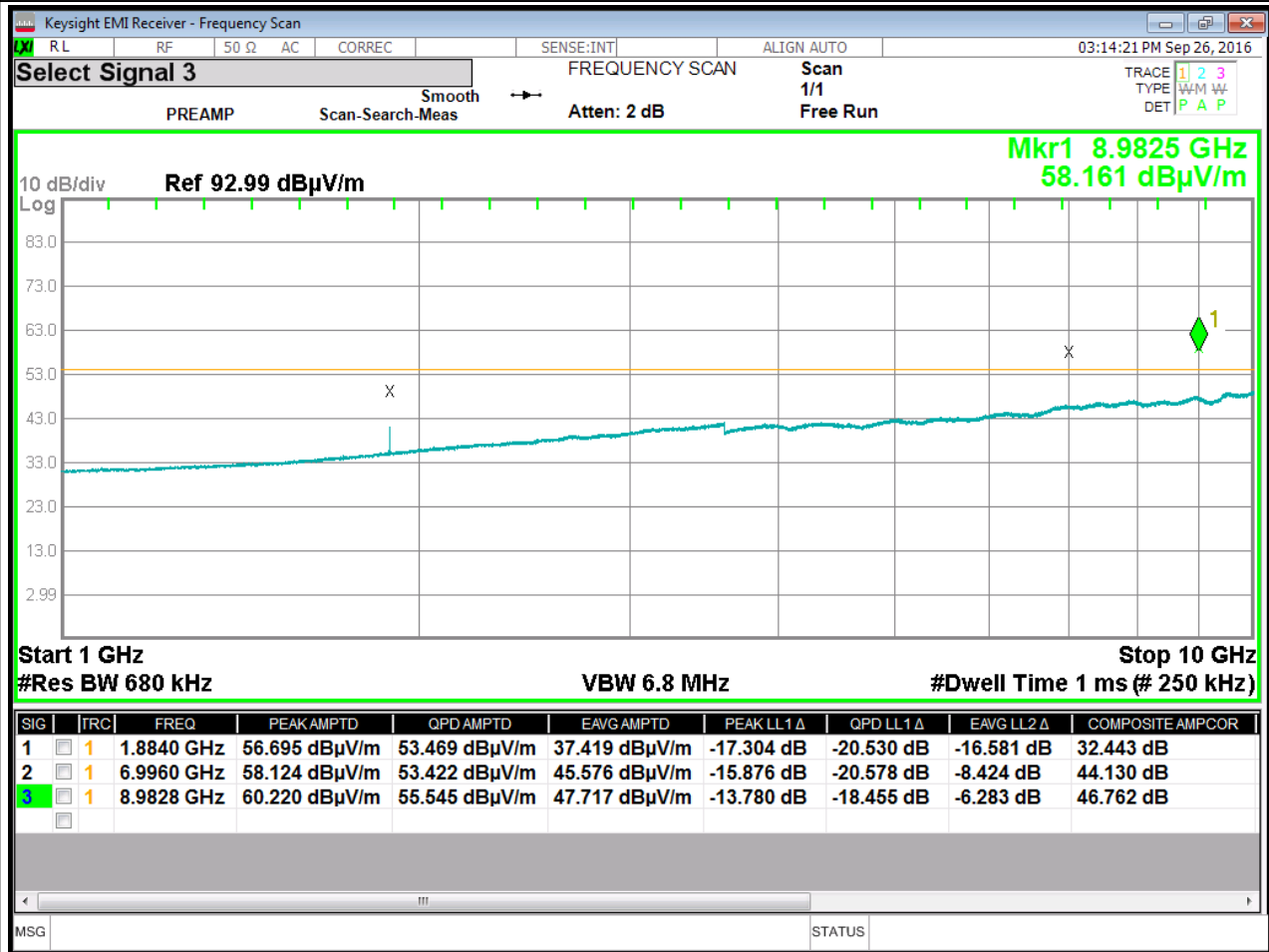


Fig. 4.7

POL H
 MA: 181 cm
 TT: 0°
 EUT mode: Modulation

*Record of the measurement of radiated emissions (AVG detector)
 Maximum disturbance determined in the frequency range 1 – 10 GHz, Pol. H.*

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

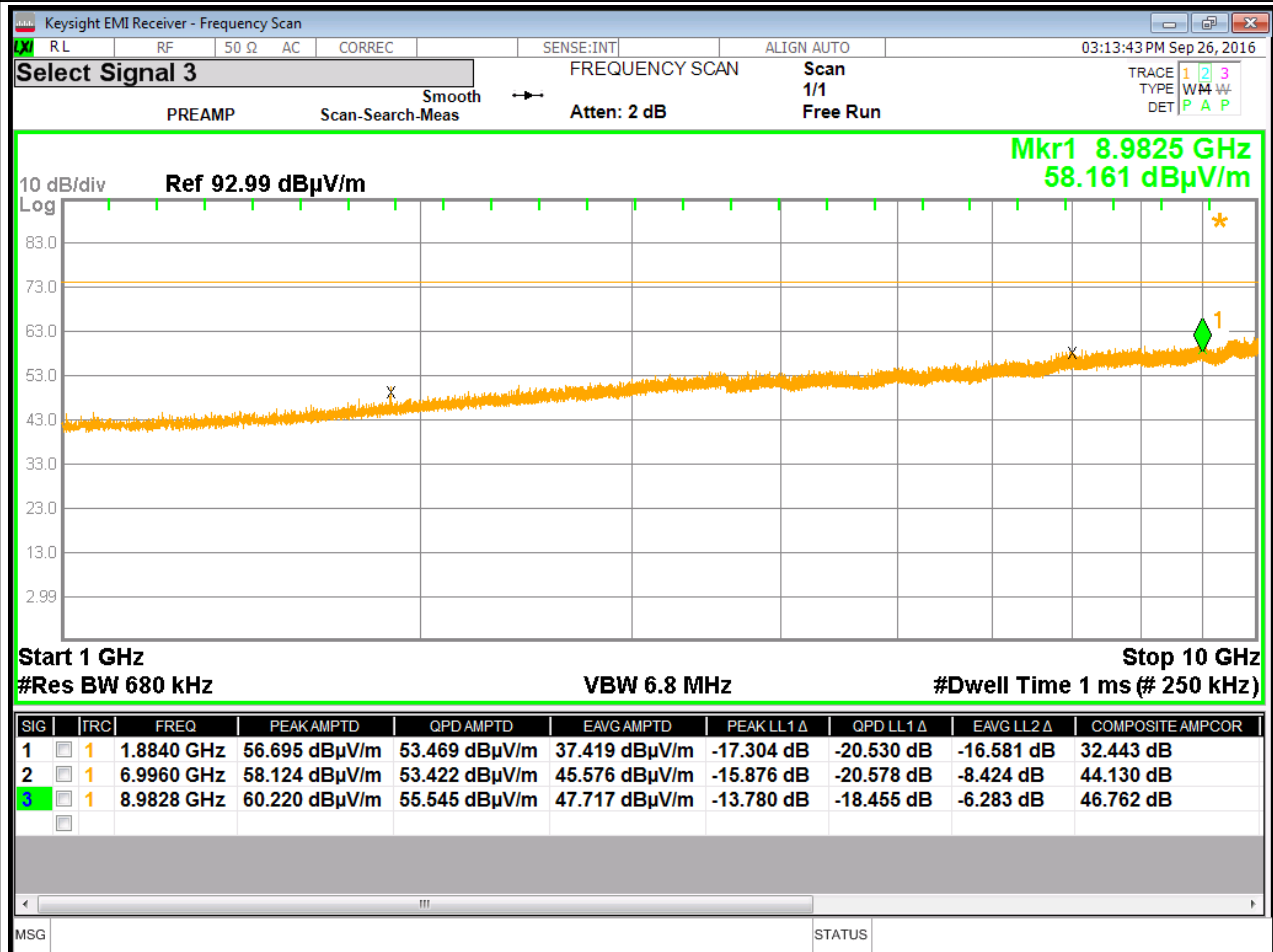


Fig. 4.8

POL H
 MA: 181 cm
 TT: 0°
 EUT mode: Modulation

*Record of the measurement of radiated emissions (Peak detector)
 Maximum disturbance determined in the frequency range 1 – 10 GHz, Pol. H.*

Job Number FCC-16721
 Test Name Radiated Emissions
 EUT Name Extronics Ltd. - iRFID500

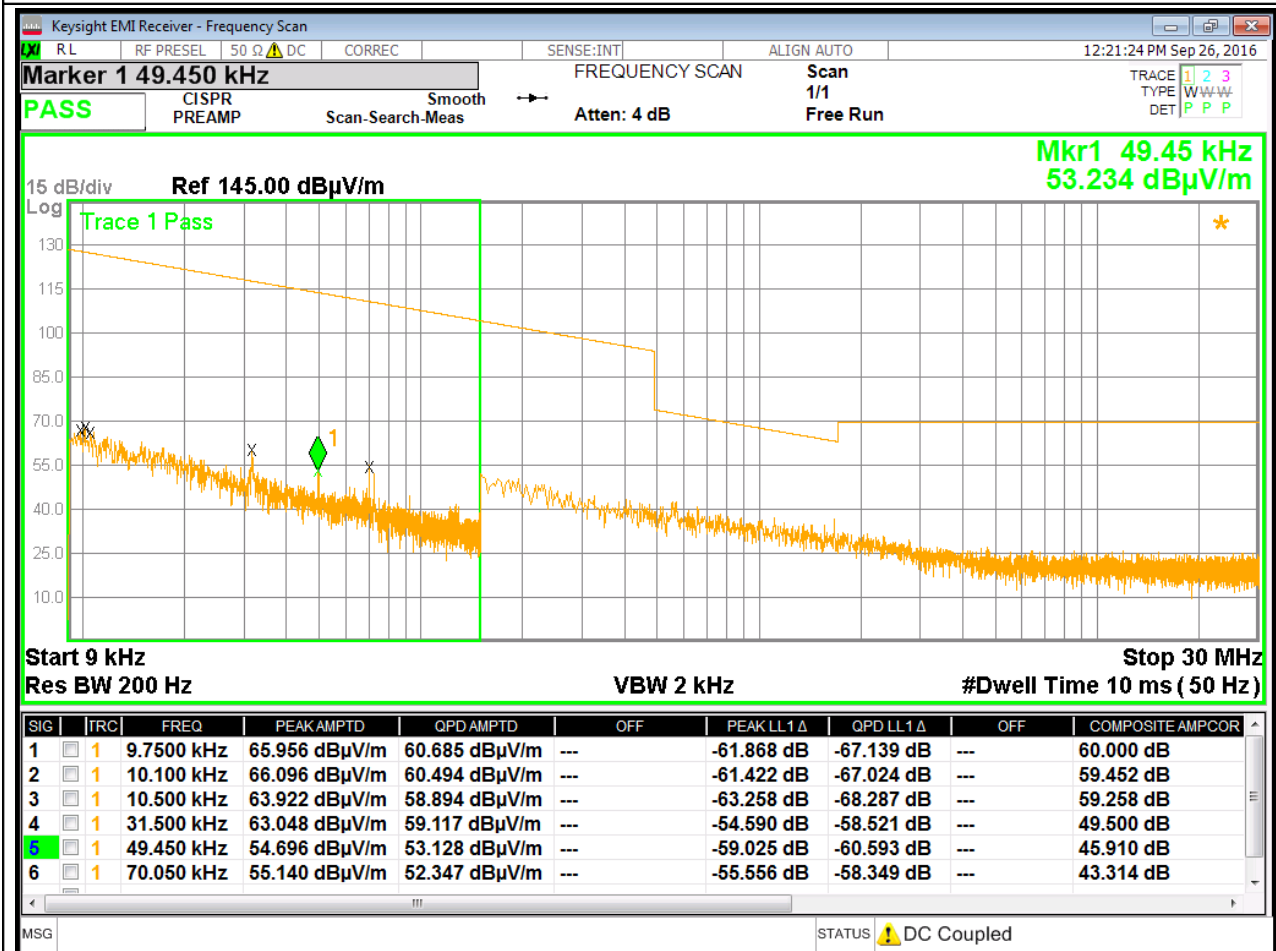


Fig. 4.9

POL Parallel
 MA: 150 cm
 TT: 0°
 EUT mode: Modulation

Record of the measurement of radiated emissions (PK)
 Maximum disturbance determined in the frequency range 0.009 – 30 MHz, Pol. Parallel.

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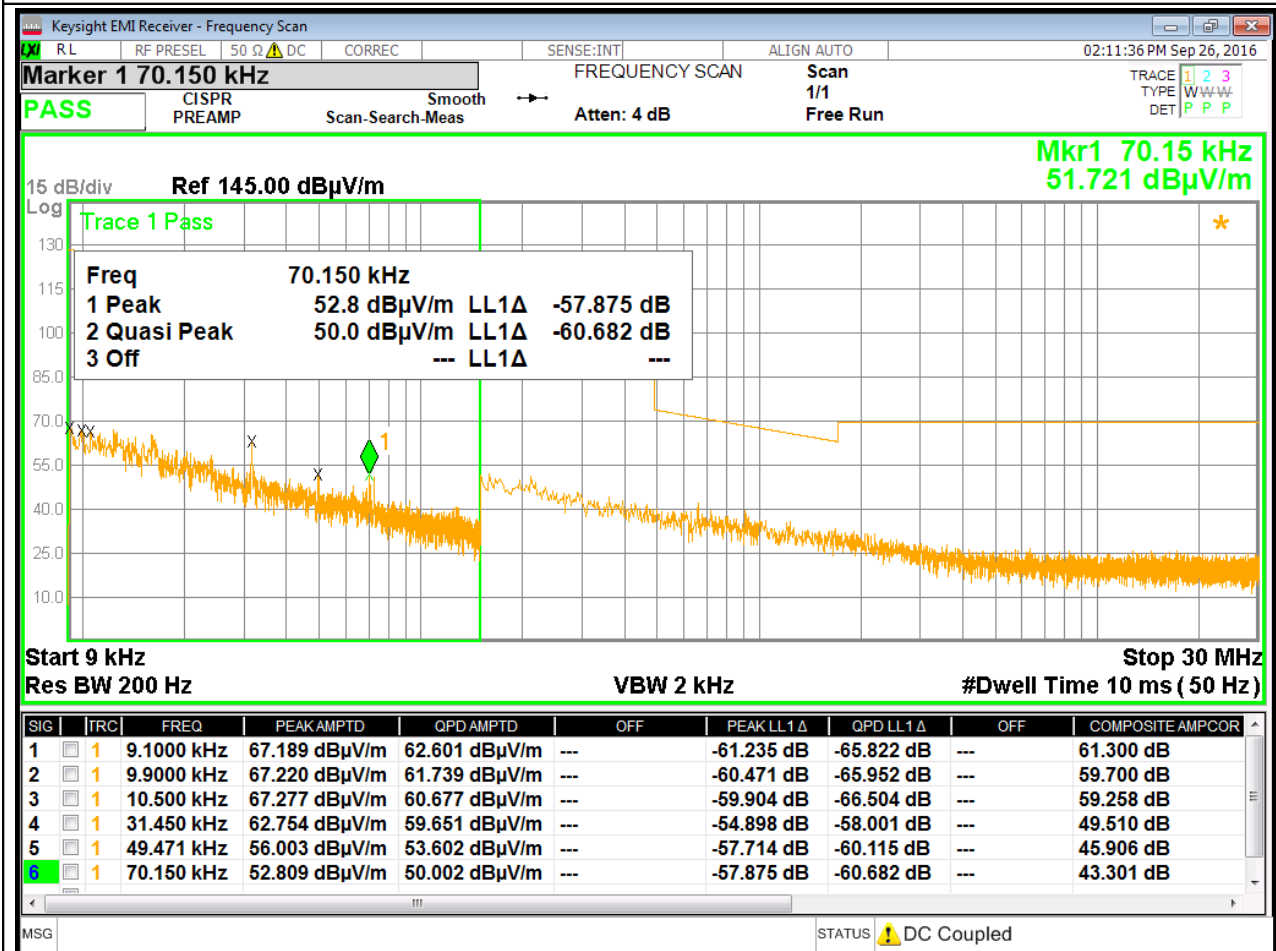


Fig. 4.10

POL Orthogonal
 MA: 150 cm
 TT: 0°
 EUT mode: Modulation

Record of the measurement of radiated emissions (PK)
 Maximum disturbance determined in the frequency range 0.009 – 30 MHz, Pol. Orthogonal.

5. POWER LINES CONDUCTED EMISSIONS

Equipment shall meet the limits below when using a CISPR16 quasi-peak and average detector receivers.

FCC 15.207

FREQUENCY RANGE (MHz)	QUASI-PEAK LIMIT [dB (μV)]	AVERAGE LIMIT [dB (μV)]
0.15 – 0.50	66 – 56 ^(*)	56 – 46 ^(*)
0.50 – 5	56	46
5 – 30	60	50

^(*) Limit decreasing linearly with logarithm of frequency

Test Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DUE
MXE EMI Receiver	Agilent/Keysight	N9038A	01/2017
Screened Room	GSD	CSC01	01/2017
LISN	GSD	NTW06	01/2017

Test procedure: CE22R01

The EUT power cable was connected to a LISN and the monitored output of the LISN was connected to a spectrum analyzer by a transient limiter. The conducted emissions from 150 kHz to 30 MHz were monitored and compared to the specification limits

Test method

Test method was in accordance with the reference standard.

EUT modes of operations were tested in order to achieve the maximum level of emission.

Results

Equipment complied with the test specification limits.

Graphics in following figures show some registrations of the frequency spectrum of the conducted emissions.

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Job Number FCC-16721
 Test Name Power line Conducted Emissions
 FCC 15.207
 EUT Name iRFID500

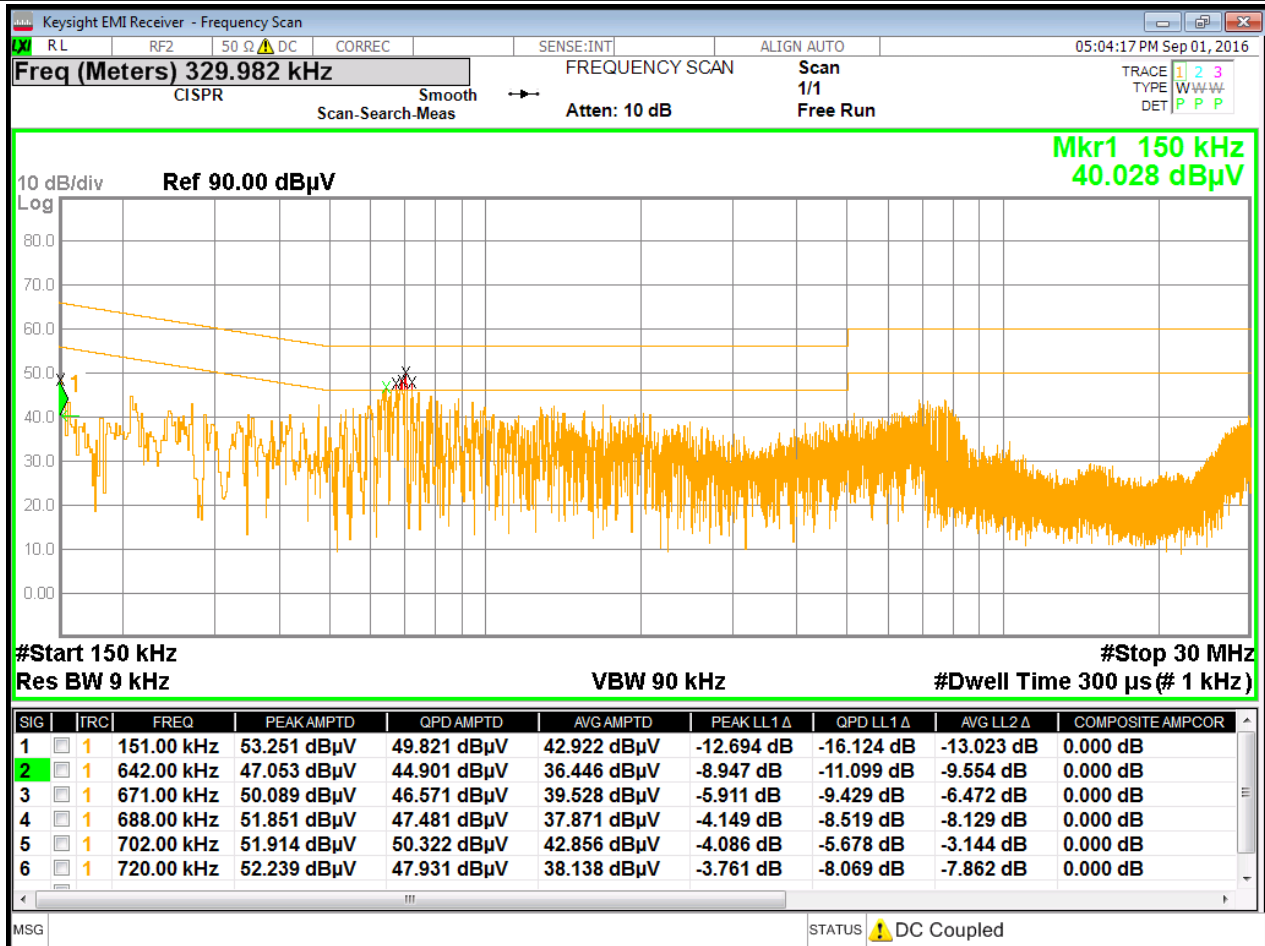


Fig. 5.1

Phase 1 of auxiliary apparatus (worst case)

EUT mode: disconnected

Auxiliary apparatus: Laptop whit power supply linked

B Band (0.15 – 30 MHz)

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 Test Name Power line Conducted Emissions
 FCC 15.207
 EUT Name iRFID500

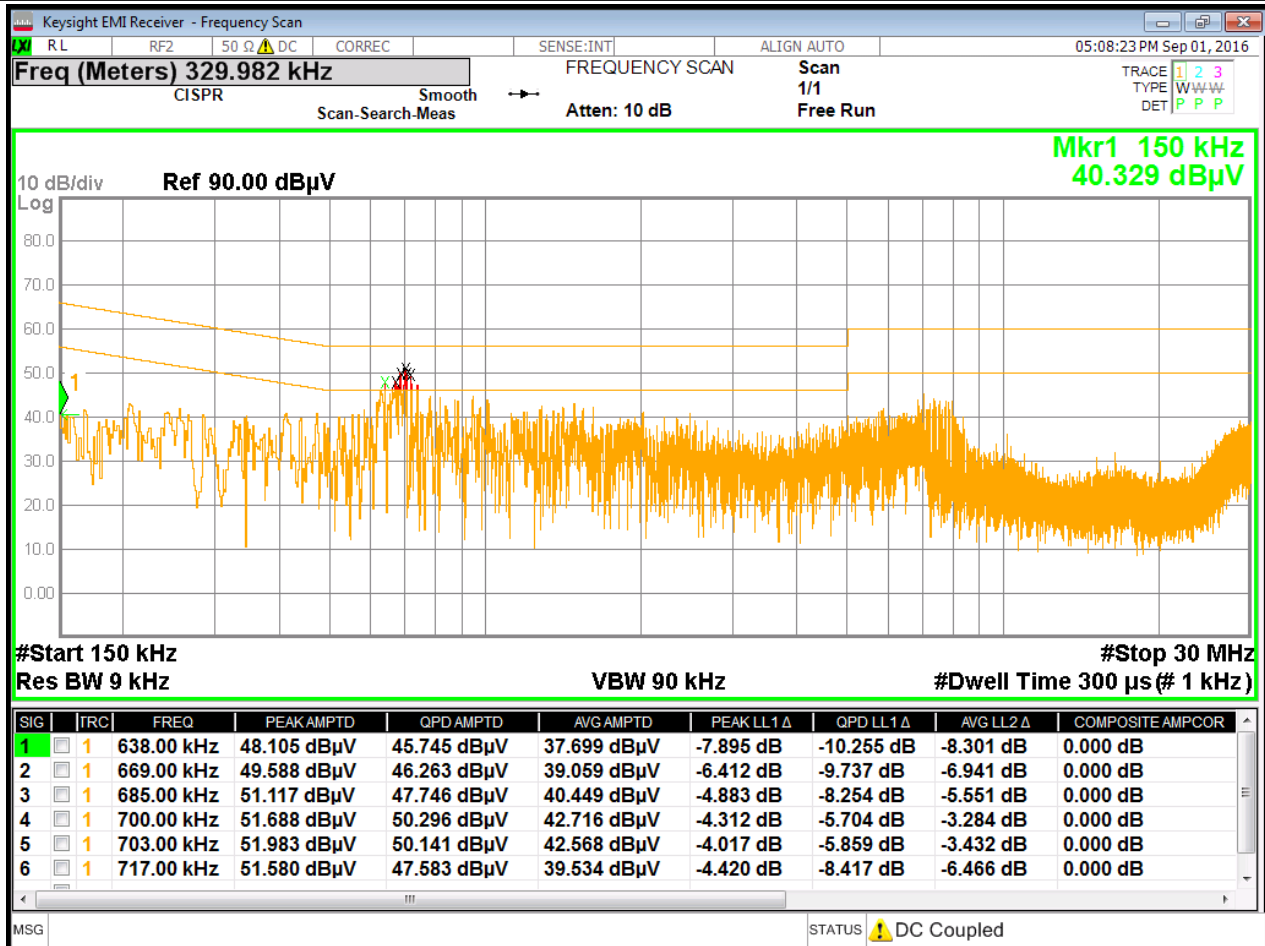


Fig. 5.2

Phase 2 of auxiliary apparatus (worst case)

EUT mode: disconnected

Auxiliary apparatus: Laptop whit power supply linked

B Band (0.15 – 30 MHz)

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 Test Name Power line Conducted Emissions
 FCC 15.207
 EUT Name iRFID500

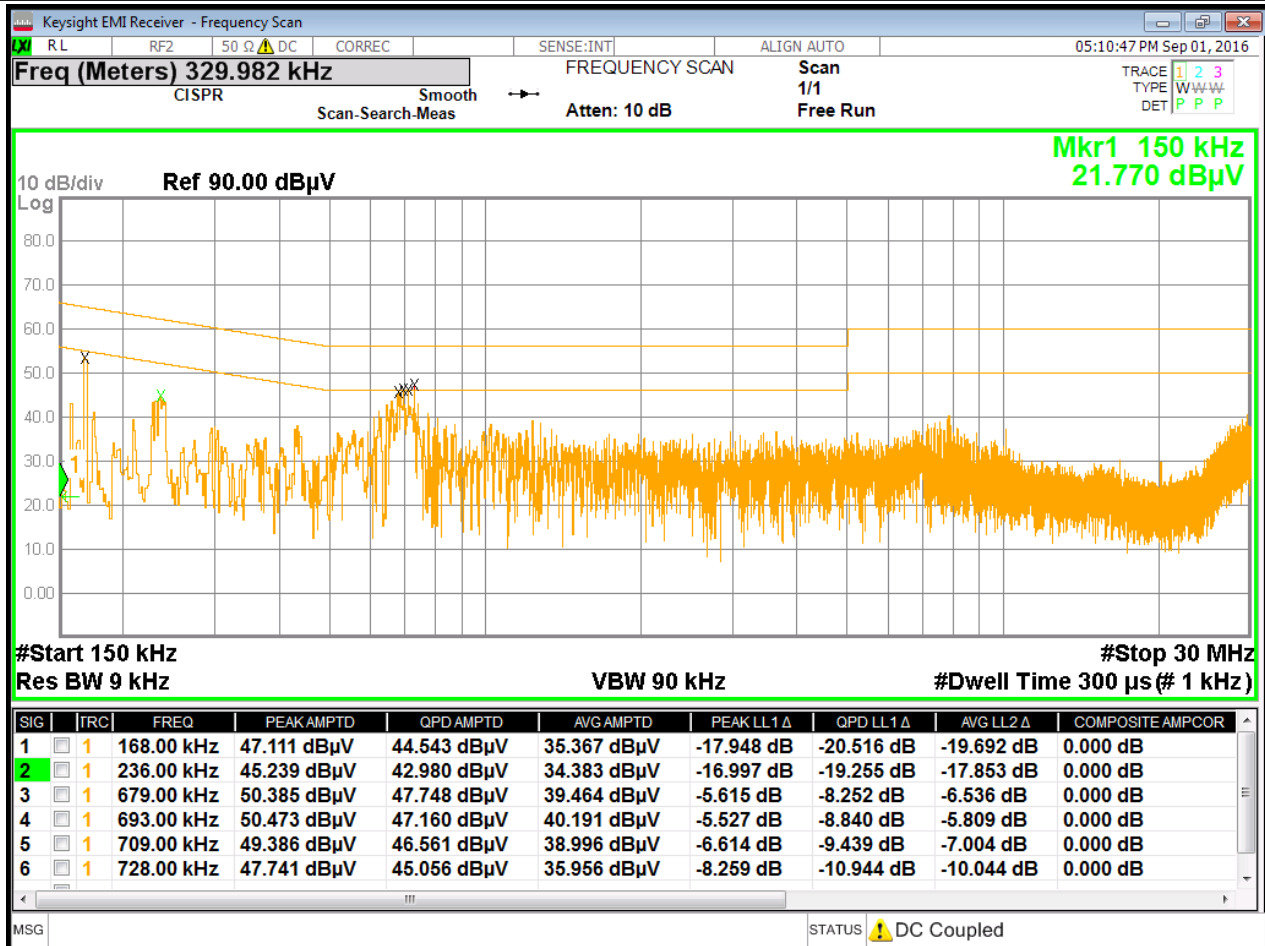


Fig. 5.3

Phase 1 of auxiliary apparatus (worst case)

EUT mode: Modulation

Auxiliary apparatus: Laptop whit power supply linked

B Band (0.15 – 30 MHz)

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 FCC 15.207
 EUT Name iRFID500

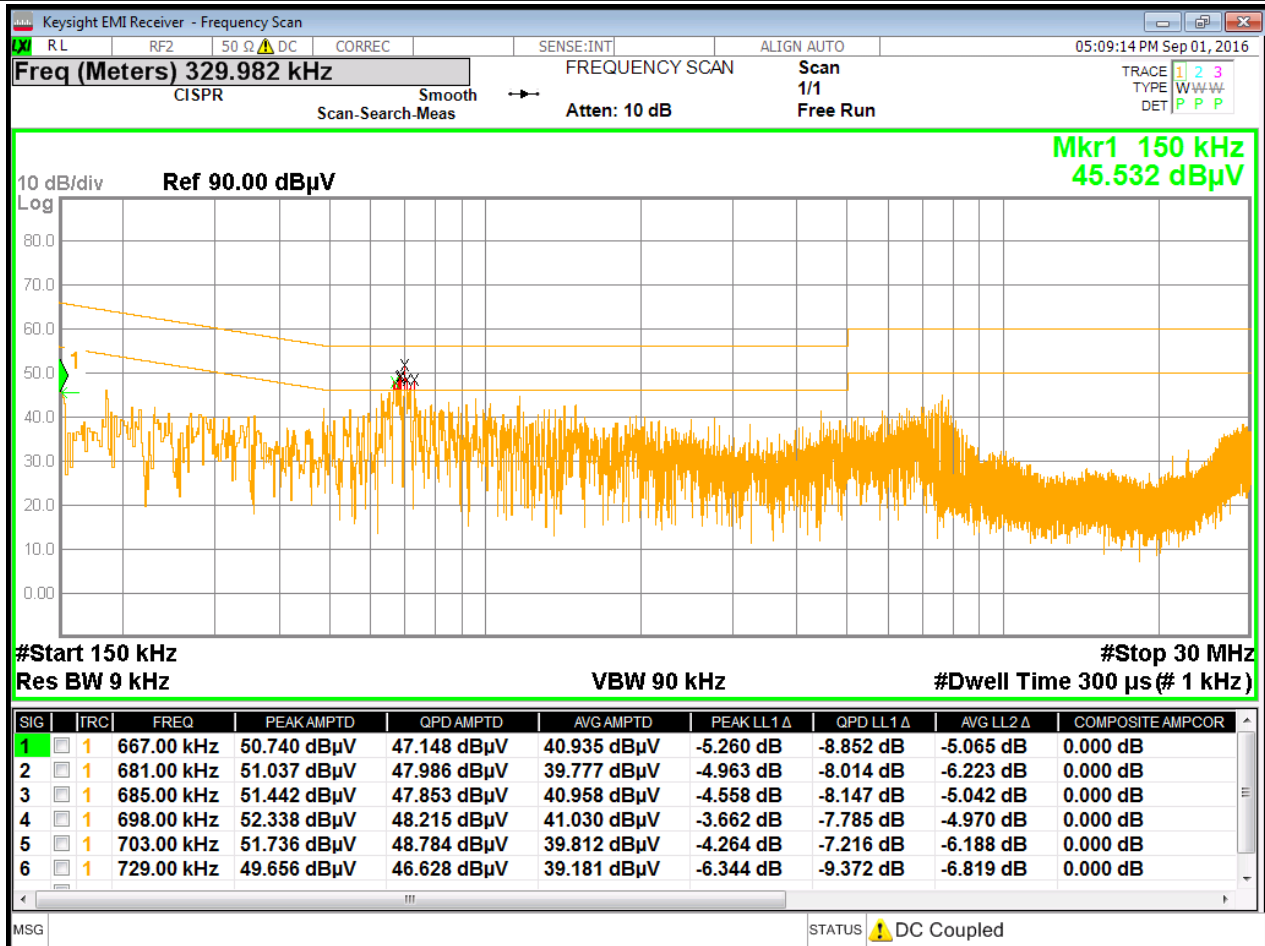


Fig. 5.4

Phase 2 of auxiliary apparatus (worst case)

EUT mode: Modulation

Auxiliary apparatus: Laptop whit power supply linked

B Band (0.15 – 30 MHz)

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Report n. FCC-16721 Rev. 01, page 23 / 62

6. OPERATION WITHIN THE BAND 902 - 928 MHz

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

6.1. NUMBER OF HOPPING CHANNEL

For frequency hopping systems operating in the 902 – 928 MHz band:

- if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies;
- if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Measurement

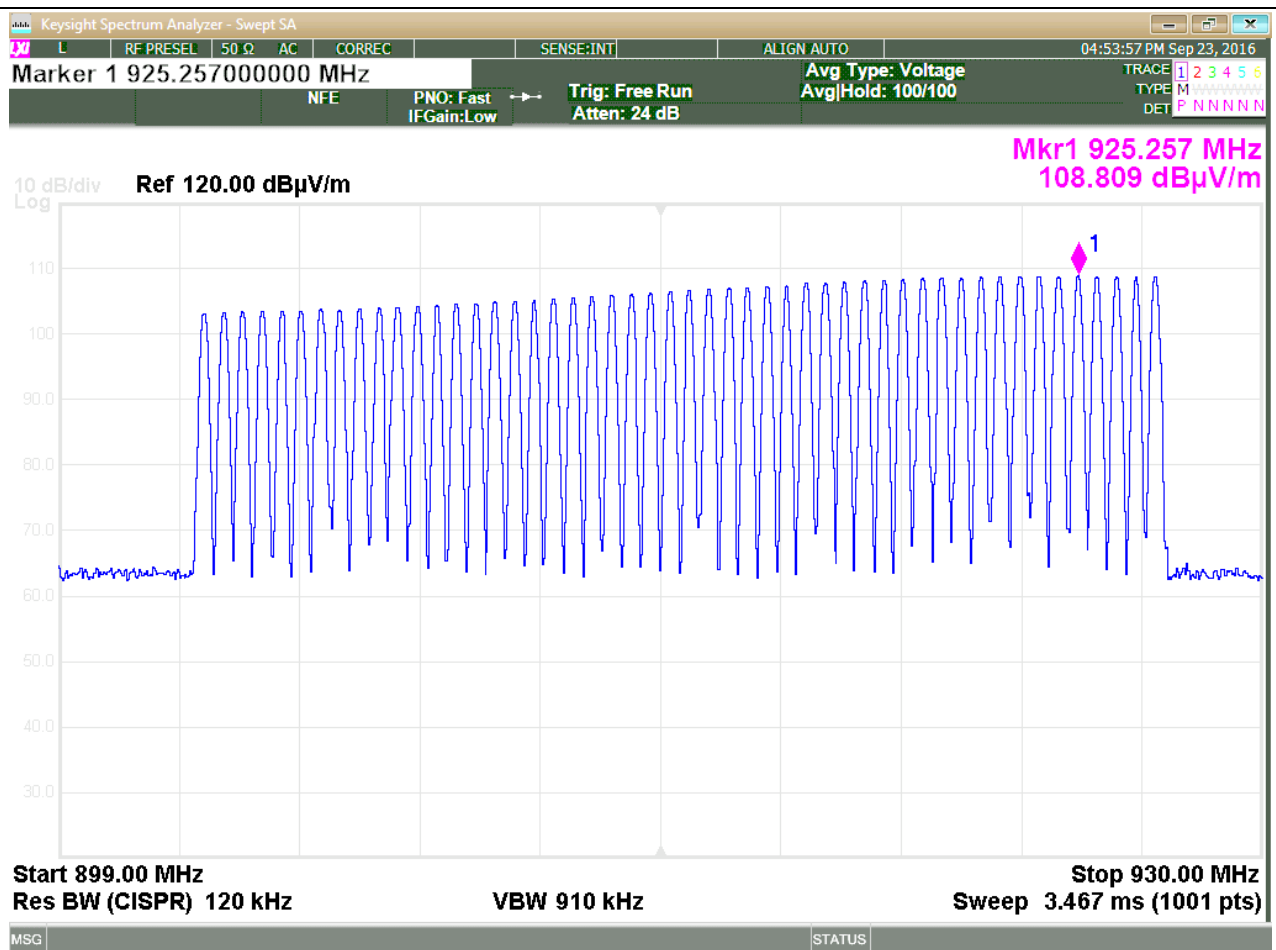


Fig. 6.1

6.2. CARRIER FREQUENCY SEPARATION

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Measurement

The following figures show the acquired graphics.

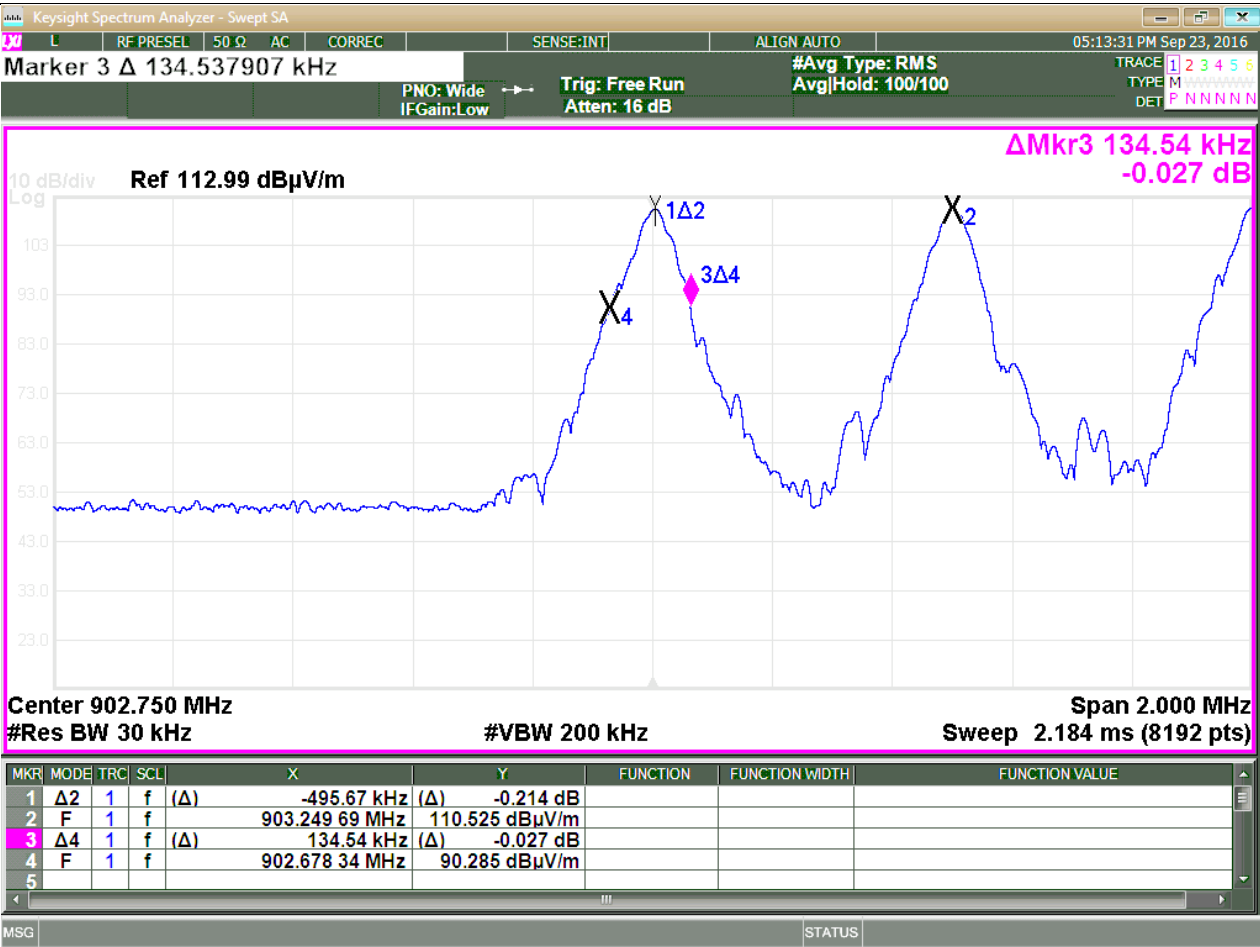
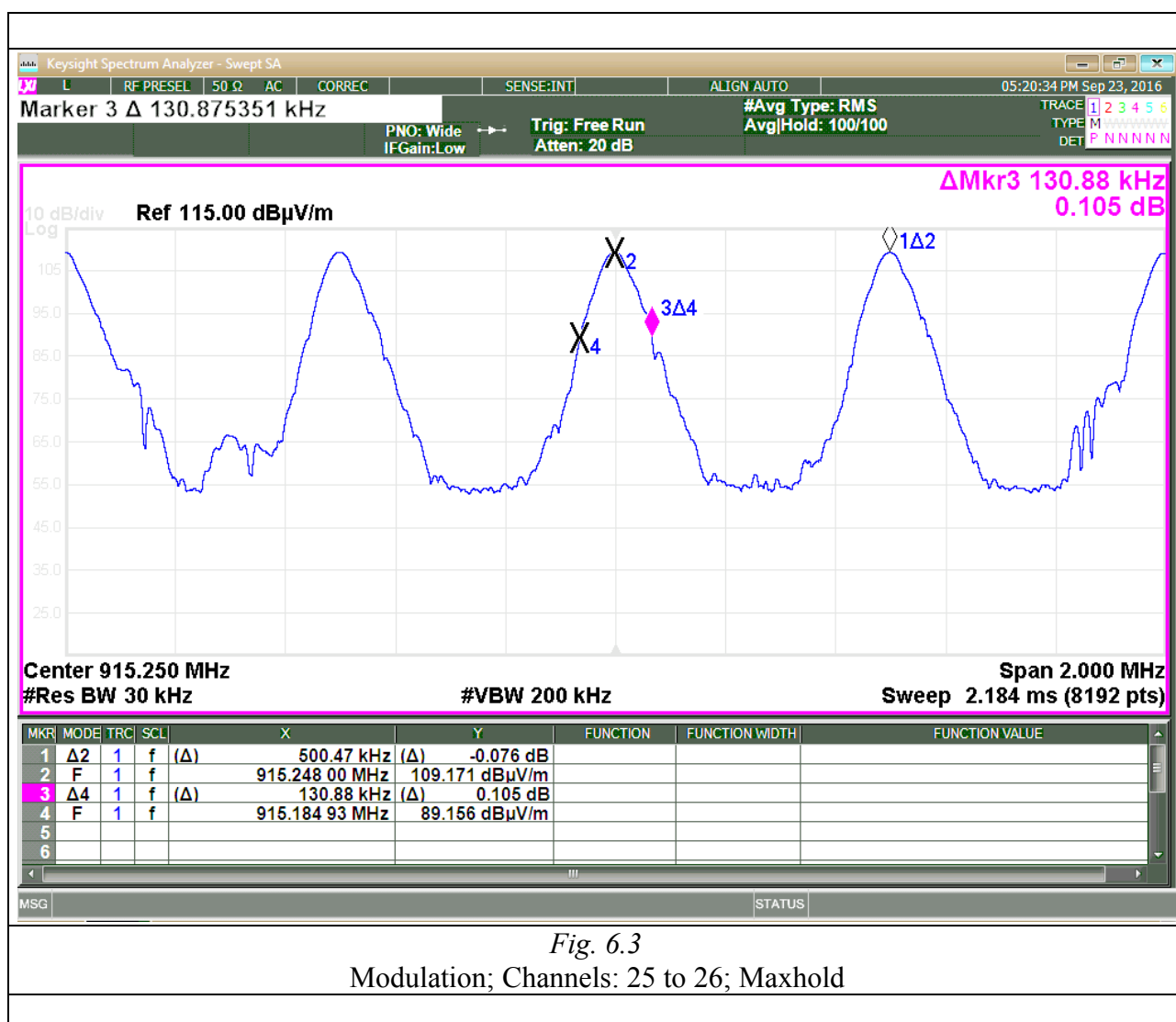
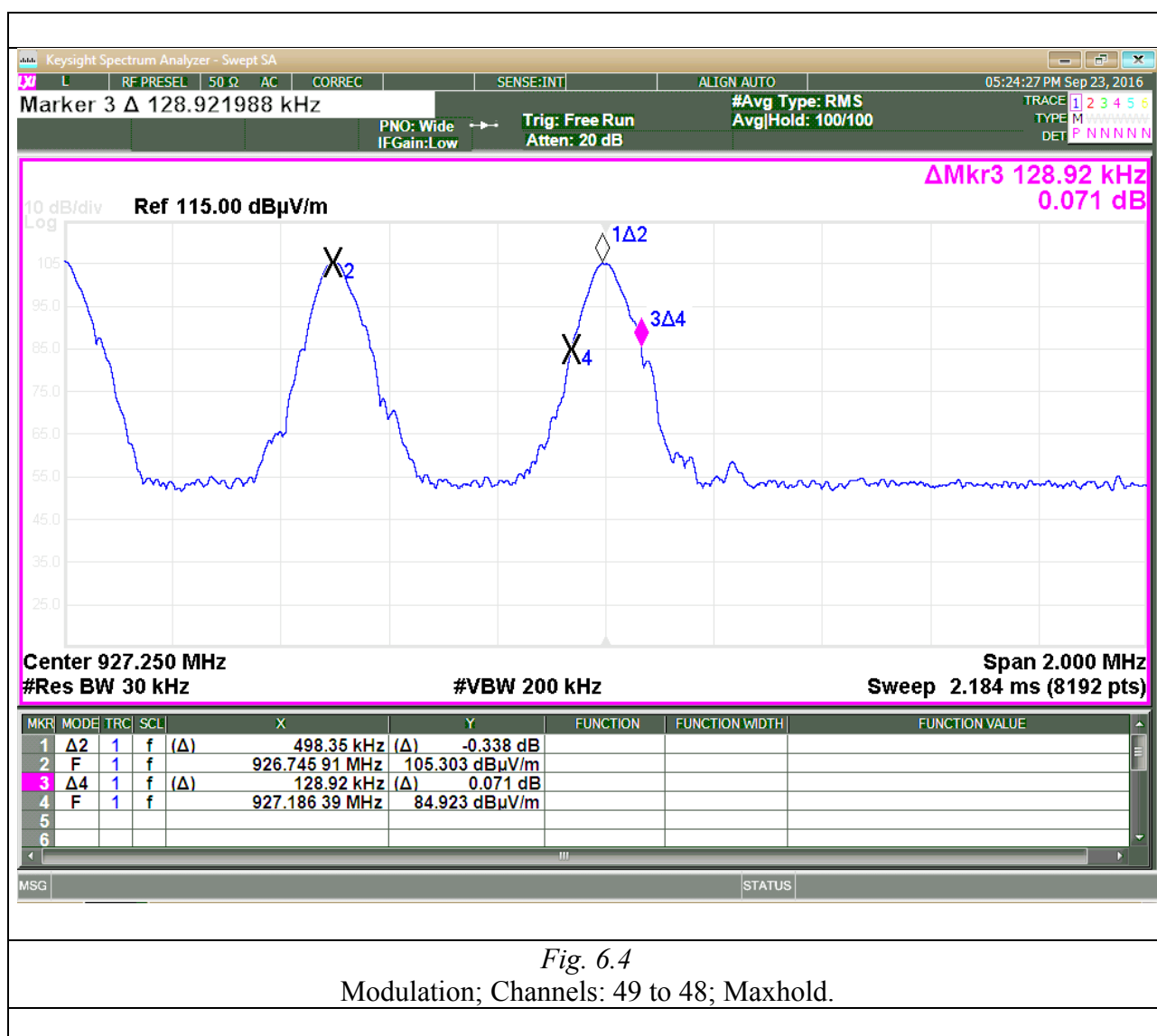


Fig. 6.2
Modulation ; Channels: 0 to 1; Maxhold





6.3. <i>TIME OF OCCUPANCY</i>				
Limits				
For frequency hopping systems operating in the 902928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period				
<u>Measurements</u>				
Channel	Dwell Time (ms)	Nr. of Transmission for channel (in 20 s)	Pol.	Time of Occupancy in 20 s (ms)
0	31.8	5	--	159
25	32.6	5	--	163
49	31.9	5	--	160
The following figures show the acquired graphics.				

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Report n. FCC-16721 Rev. 01, page 28 / 62

Time of transmission

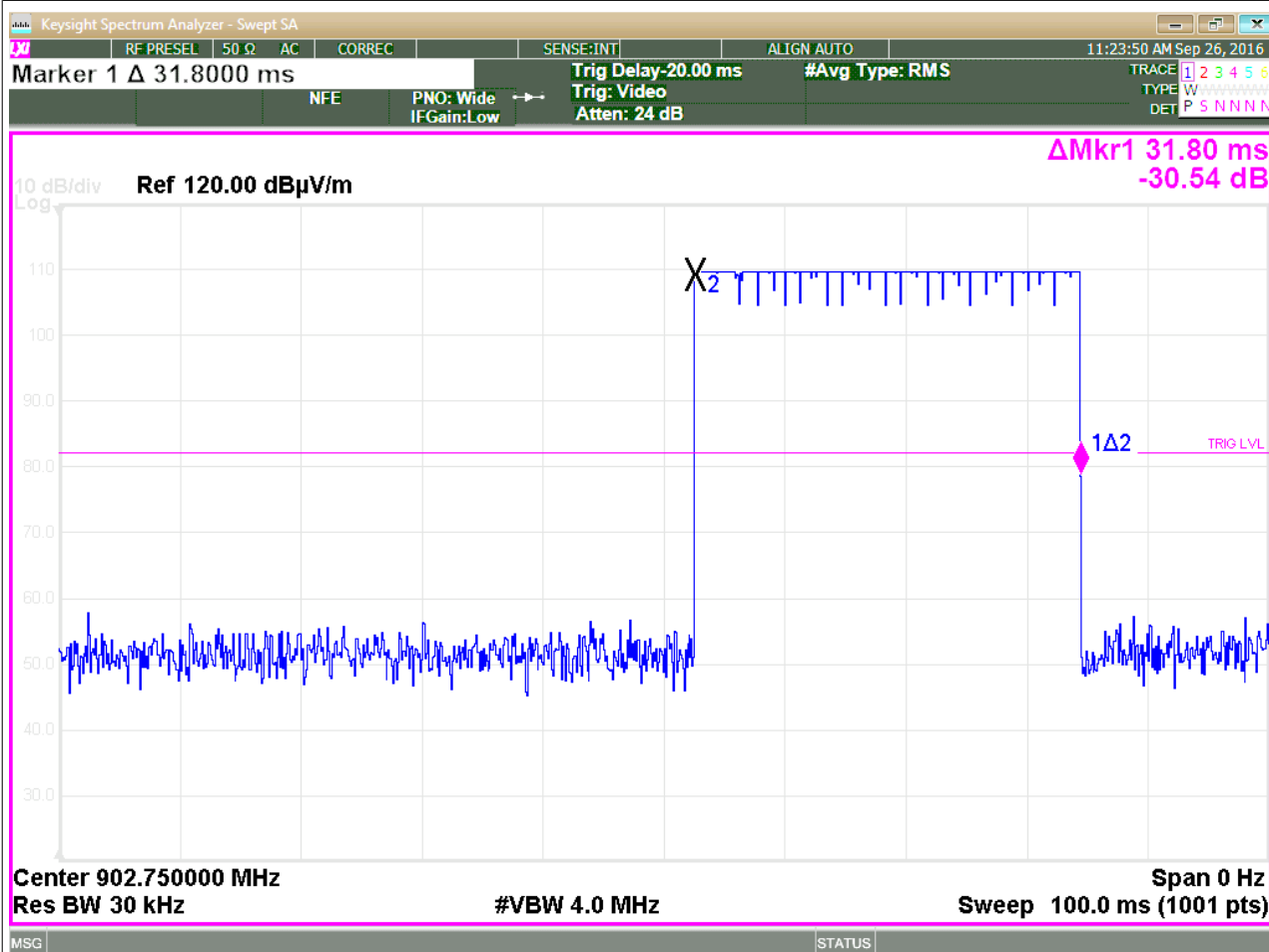


Fig. 6.5
Channel: 0 (Maxhold)

Nr. of Transmission for channel



Fig. 6.6
Channel: 0

Time of transmission

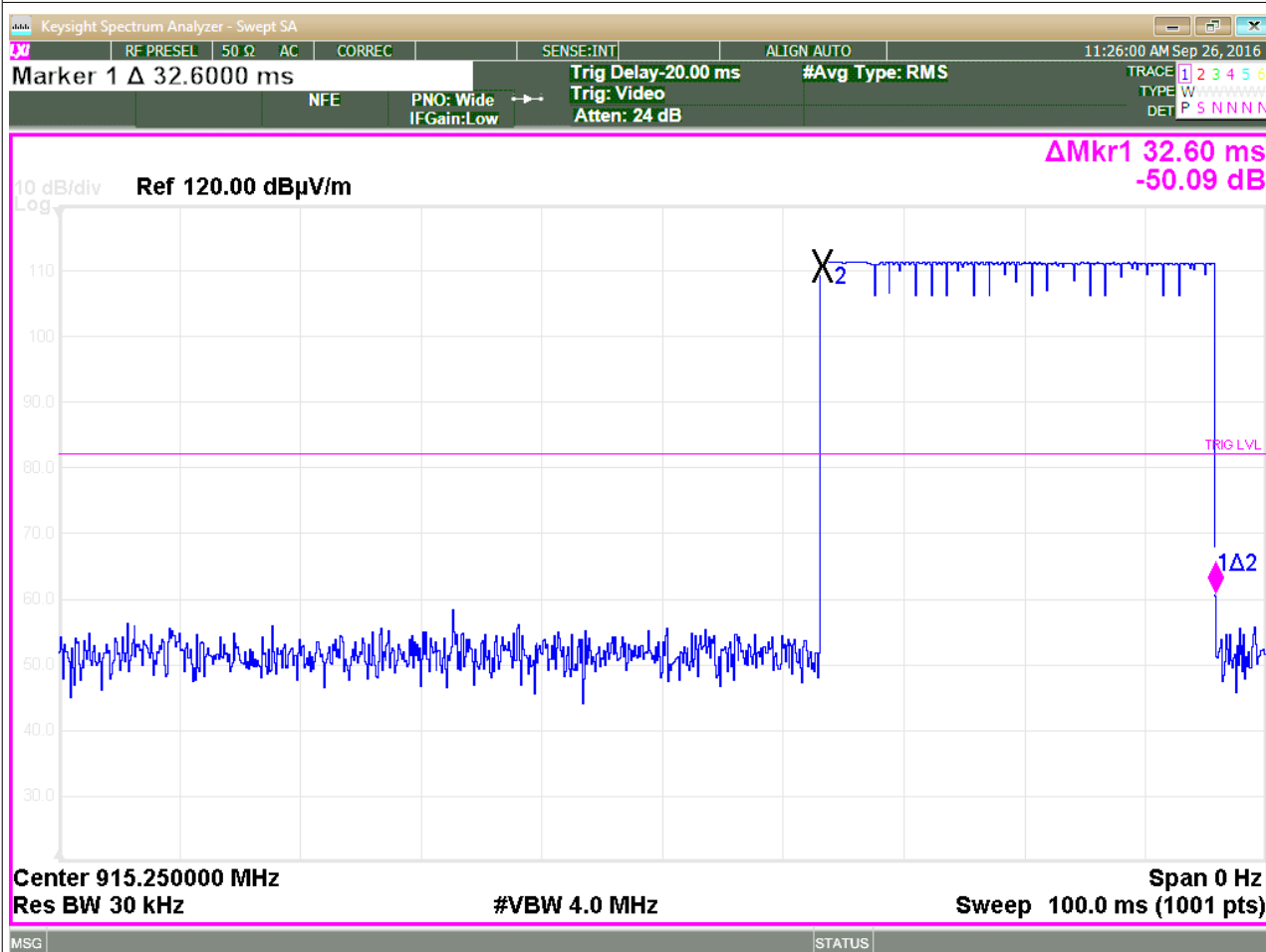


Fig. 6.7
Channel: 25 (Maxhold)

Nr. of Transmission for channel



Fig. 6.8
Channel: 25

Time of transmission



Fig. 6.9
Channel: 49 (Maxhold)

Nr. of Transmission for channel

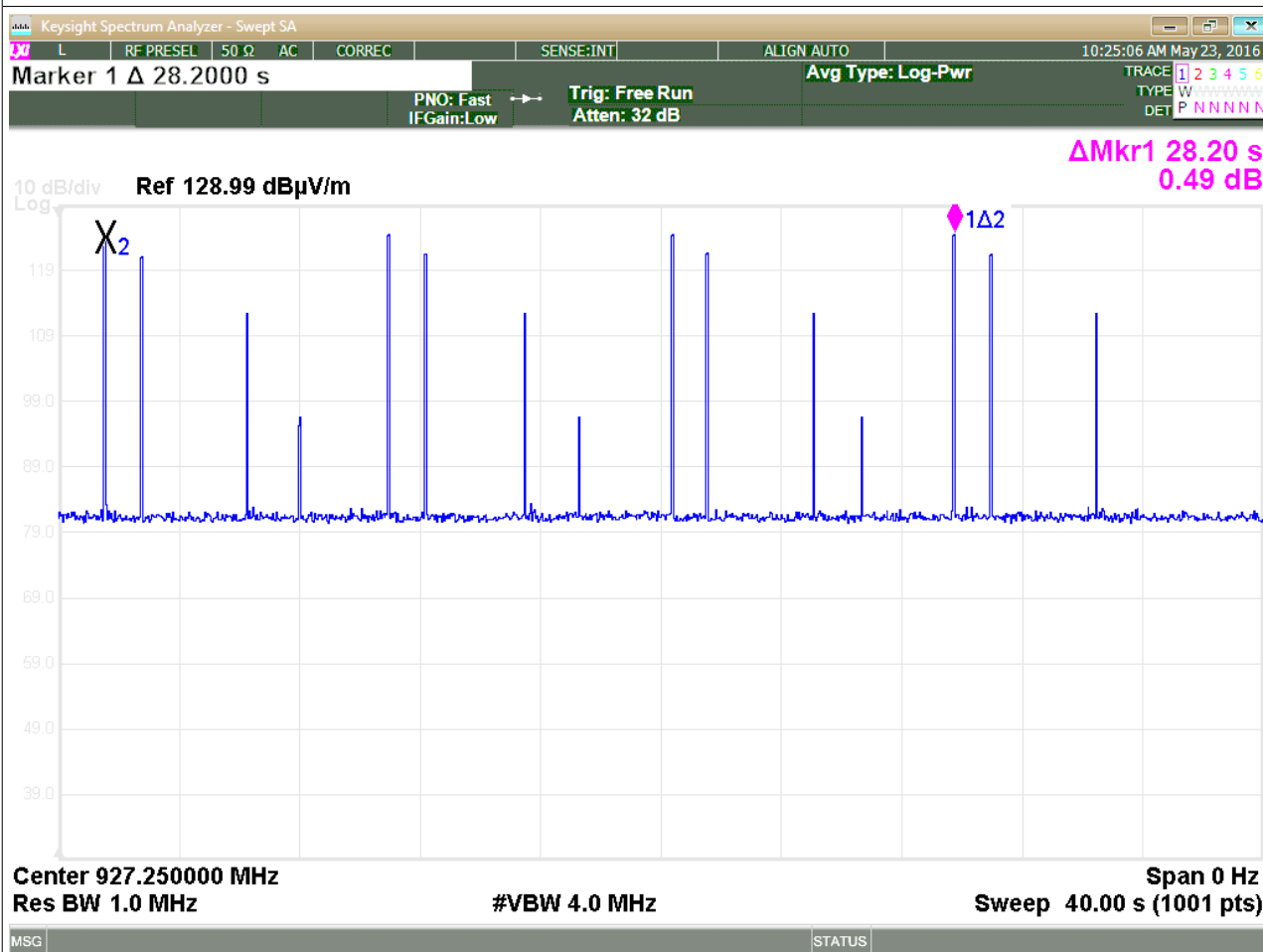


Fig. 6.10
Channel: 49

6.4. 20 dB BANDWIDTH

Measurements

Channel	Frequency (Pol. V / Pol. H) [MHz]	Bandwidth (Pol. V / Pol. H) [kHz]
0	902.7485 / 902.7495	60.5 / 60.5
25	915.2505 / 915.2500	75.5 / 72.5
49	927.2505 / 927.2495	59.5 / 59.5

The following figures show the acquired graphics.

Ch 0: Bandwidth



Fig. 6.11
Pol. V

Ch 25: Bandwidth



Fig. 6.12
Pol. V

Ch 49: Bandwidth



Fig. 6.13
Pol. V

Ch 0: Bandwidth



Fig. 6.14
Pol. H

Ch 25: Bandwidth

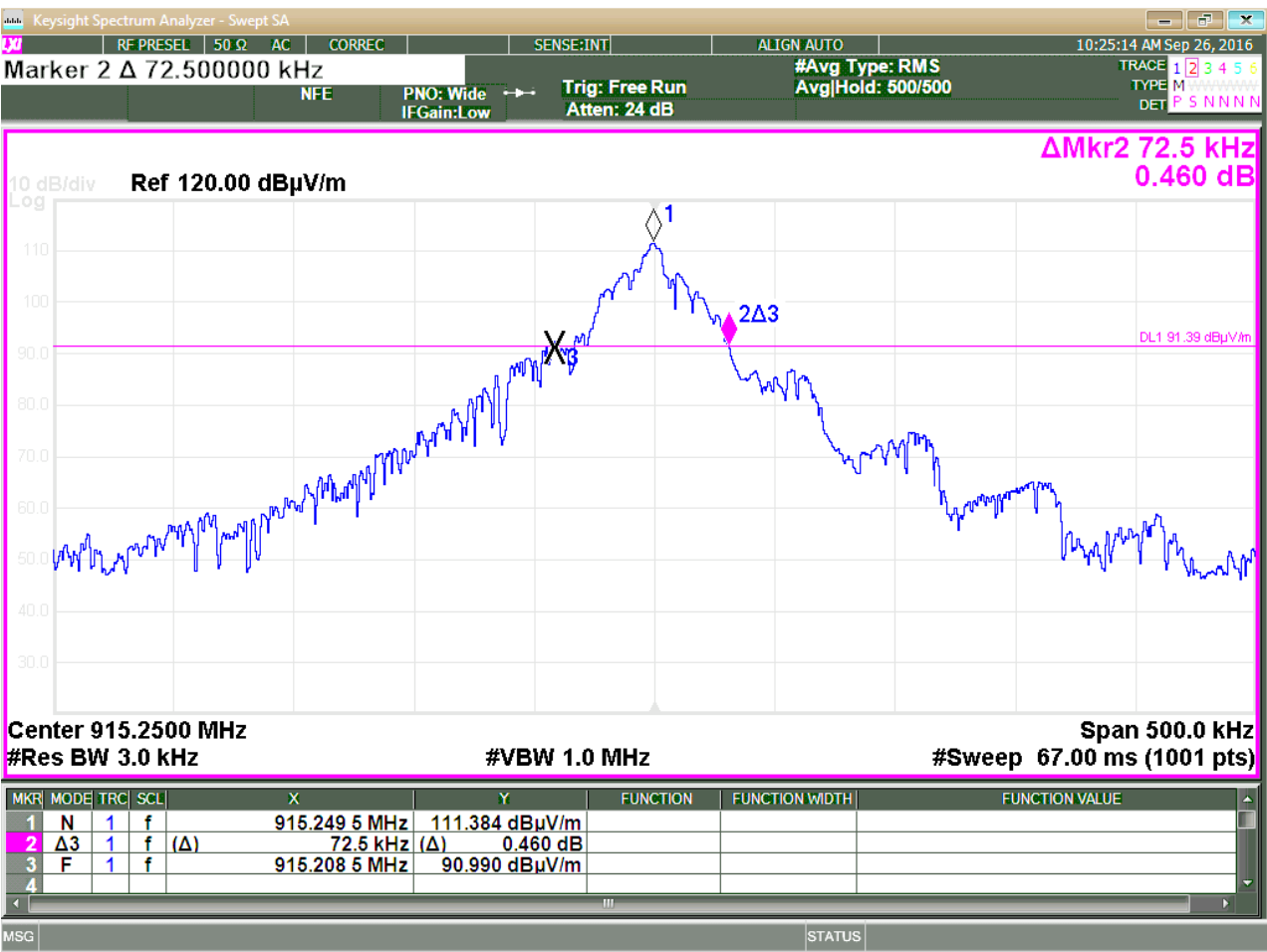


Fig. 6.15
Pol. H

Ch 49: Bandwidth

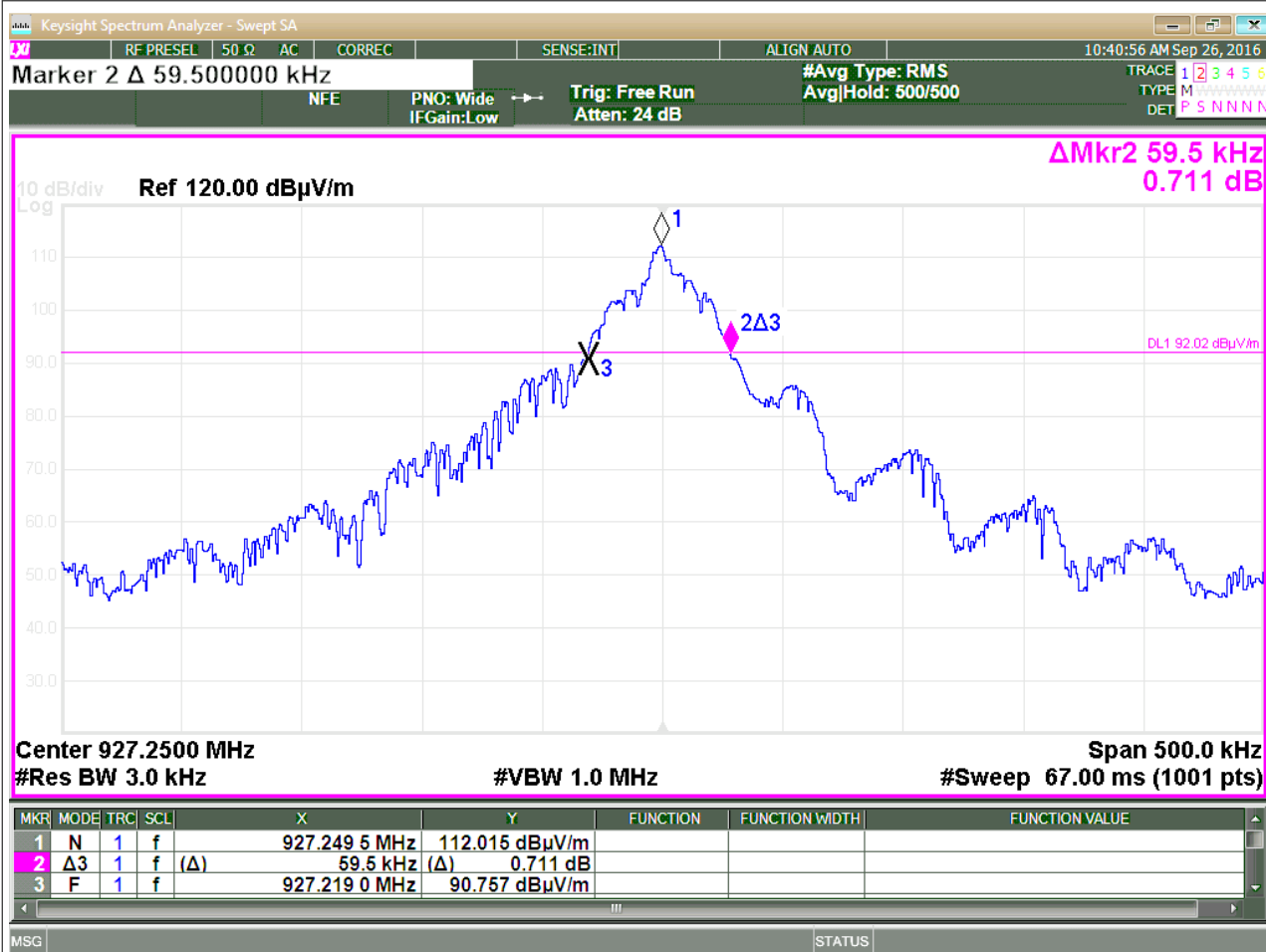


Fig. 6.16
Pol. H

6.5. *PEAK OUTPUT POWER*

Equipment shall meet the limits below.

<i>FREQUENCY RANGE</i> [MHz]	<i>NUMBER OF CHANNEL</i> [#]	<i>RF POWER OUTPUT LIMIT</i> [dBm]
902 – 928	50	30.0 (1 W)
902 – 928	< 50	24.0 (0.25 W)

Measurement

Eirp and Erp measurement were measured accordingly to ANSI C63.10: 2013 and 412172 D01 Determining ERP and EIRP v01r01.

Field Strength approach (linear terms):

$$erp = (E * d)^2 / (30 * 1.64) \quad (1)$$

E = Electric field strength in V/m

d = measure distance in m

Note: for f < 1GHz the radiated power is in ERP

The measured values are:

<i>CHANNEL</i>	Electric Field [dBuV/m] / Output Power [dBm]	
	Pol. V	Pol. H
0	101.296 / 3.89	122,402/ 24.99
25	98.661 / 1.25	122,851 / 25.44
49	101.676 / 4.27	122,189 / 24.78

Maximum Electric Field 122,851 dBuV/m = 1,4V/m

d = 3m

Accordingly to (1) erp is calculated:

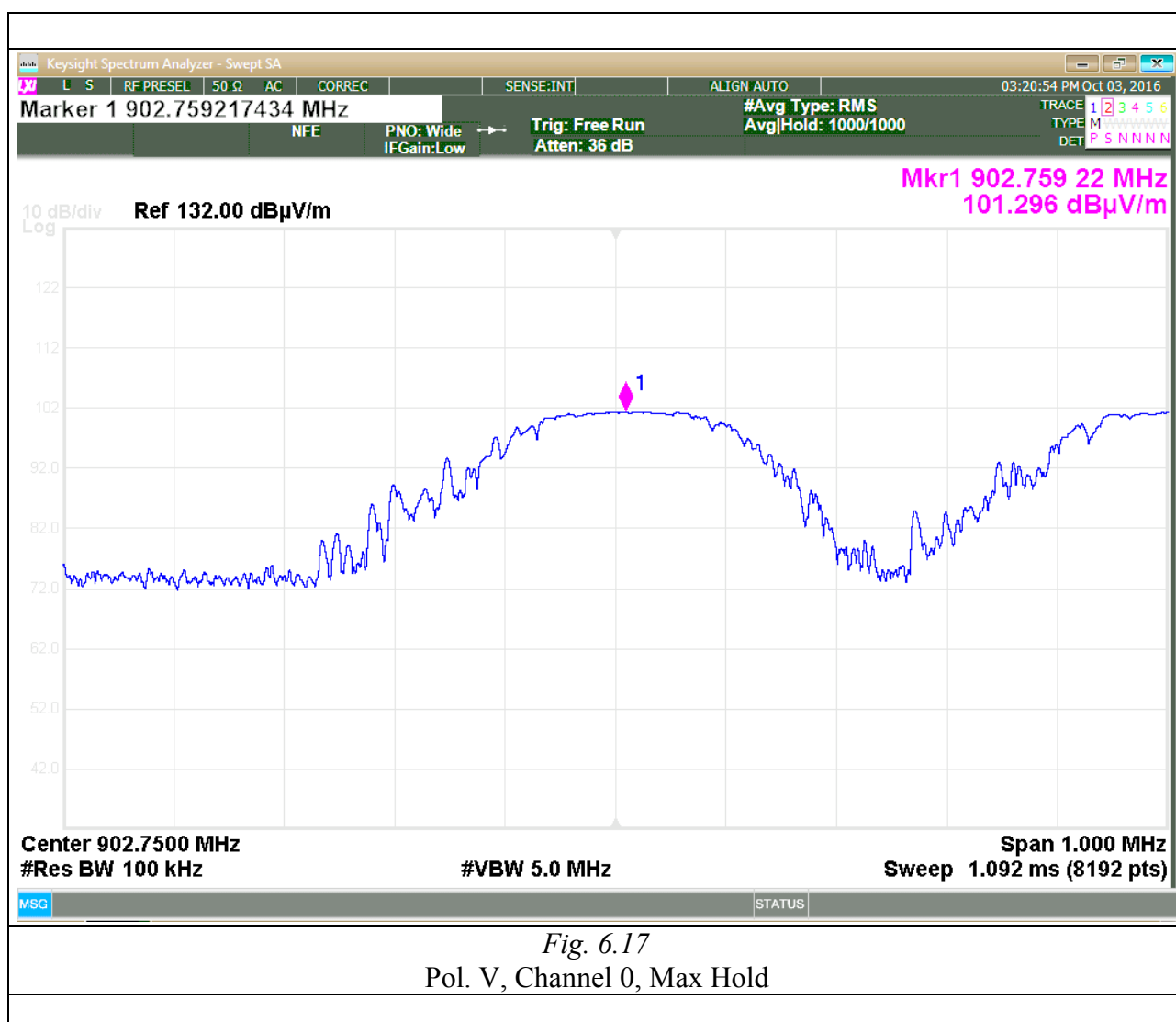
$$erp = 0.35 \text{ W}$$

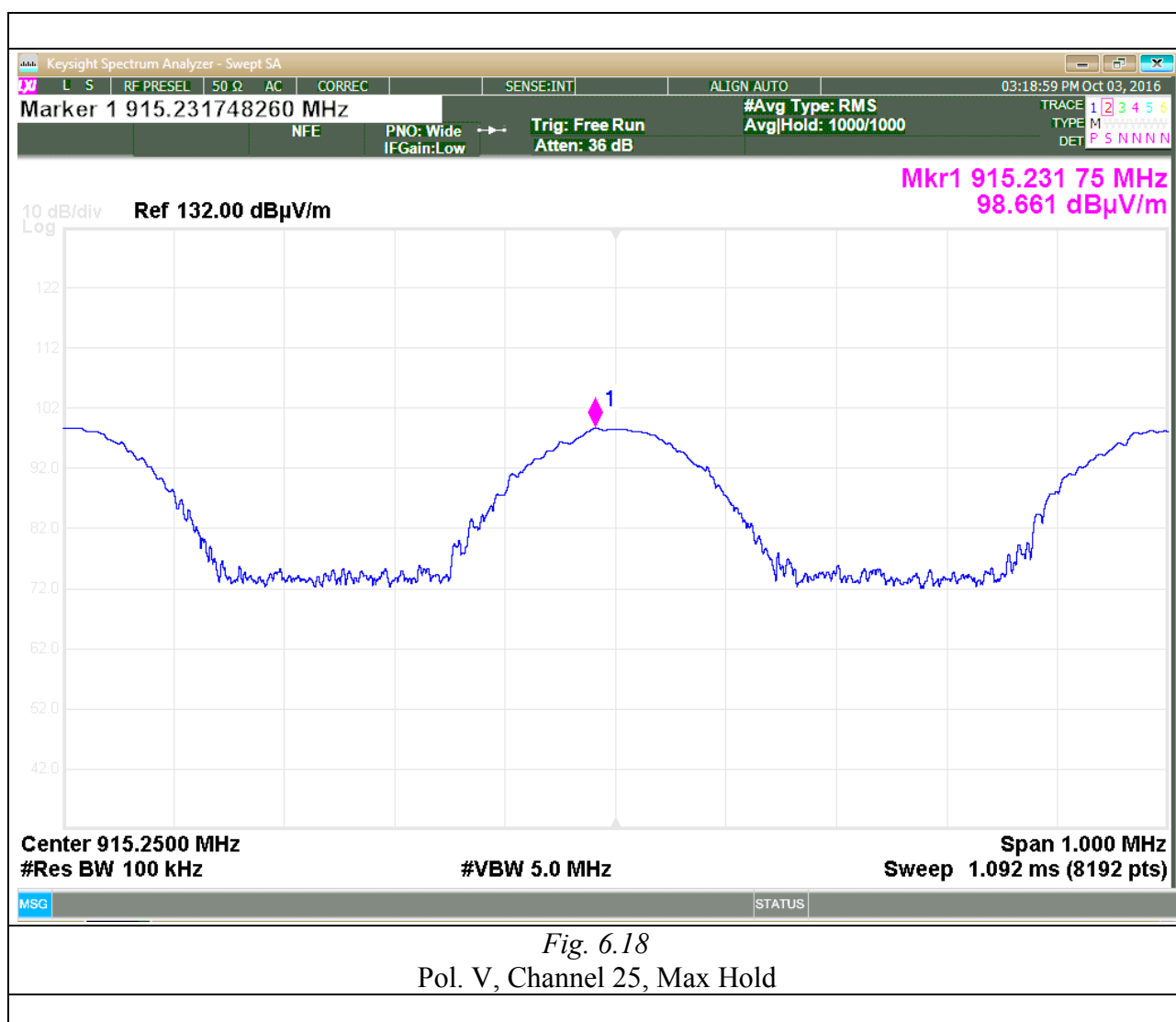
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Report n. FCC-16721 Rev. 01, page 42 / 62





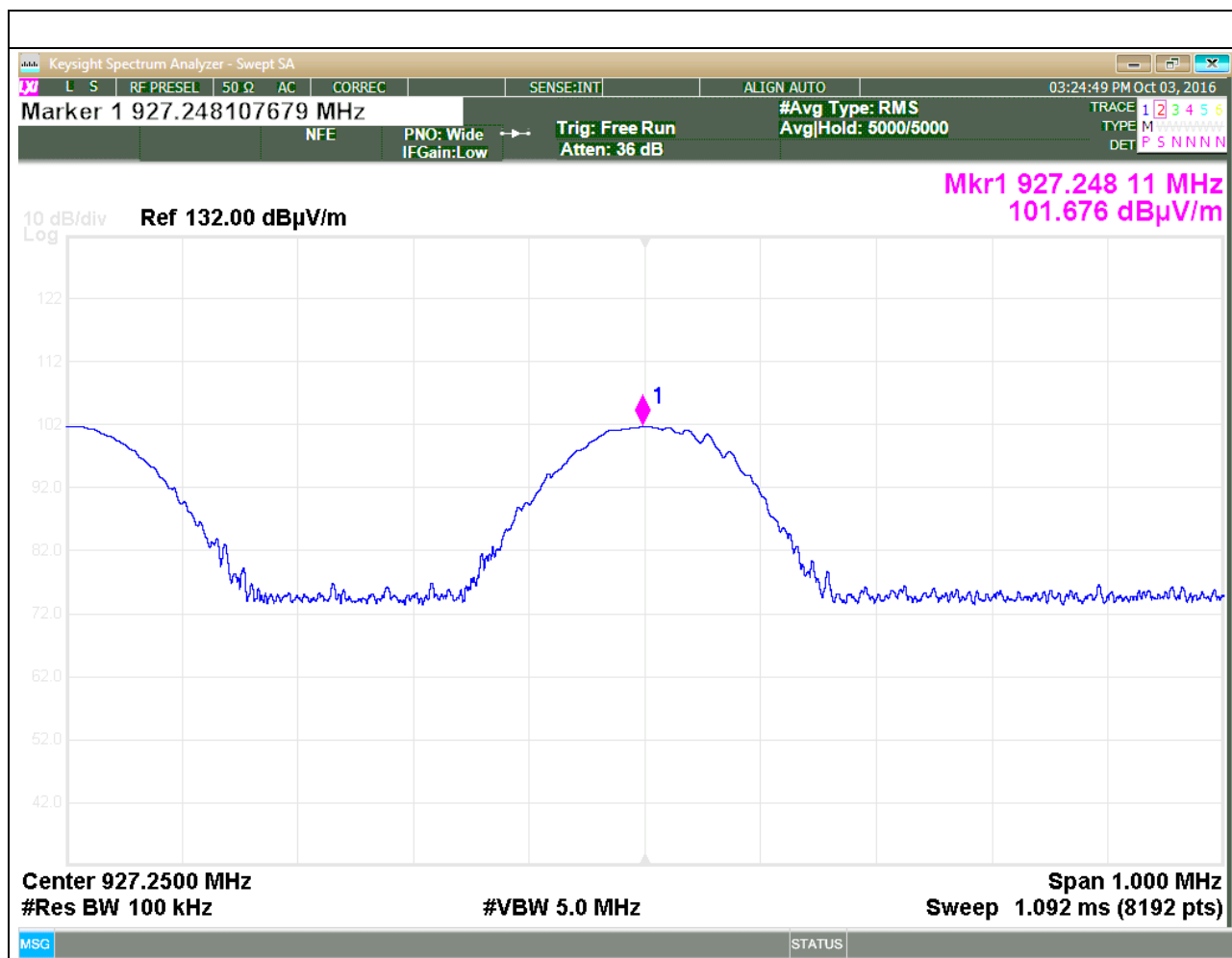


Fig. 6.19
Pol. V, Channel 49, Max Hold

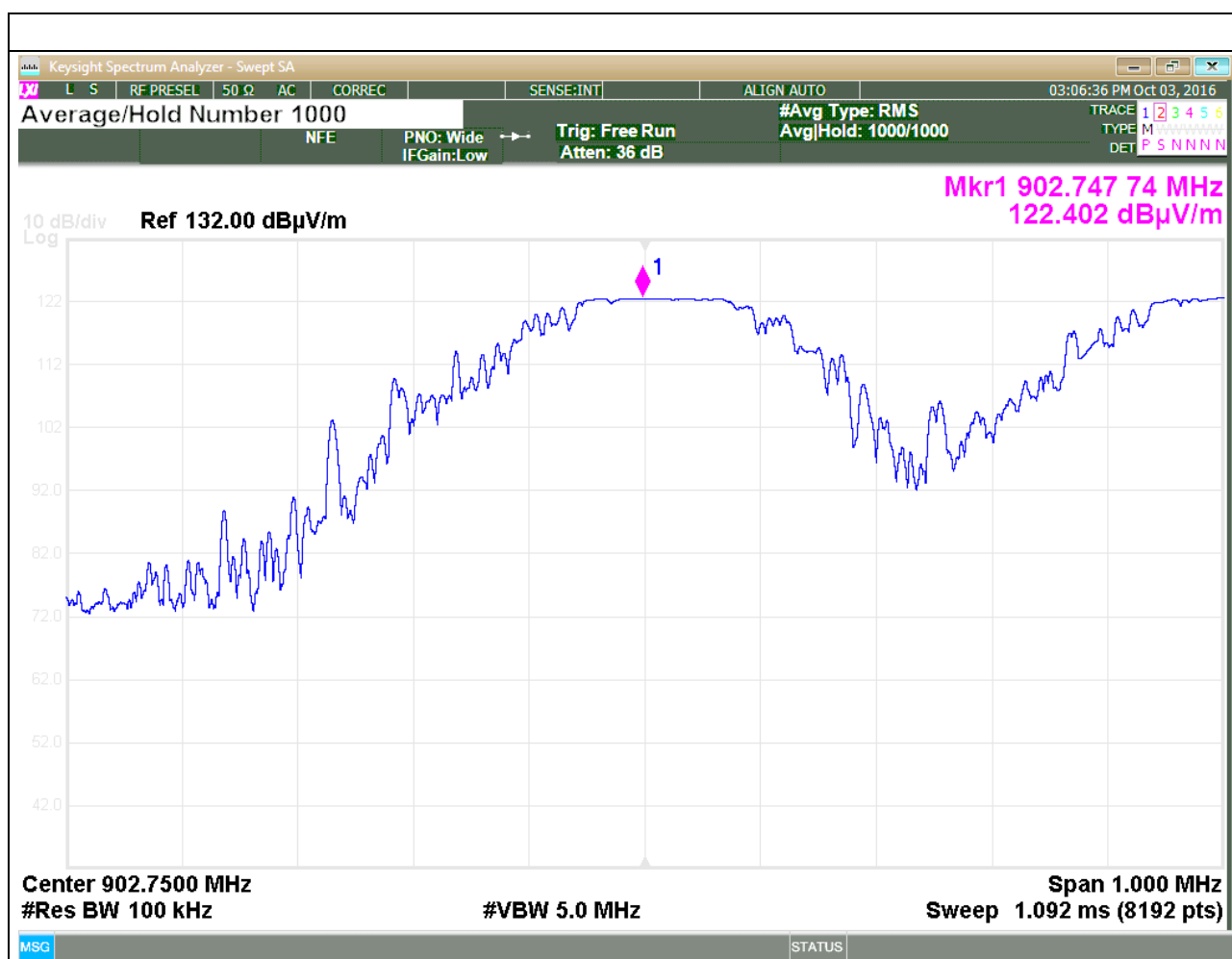


Fig. 6.20
Pol. H, Channel 0, Max Hold

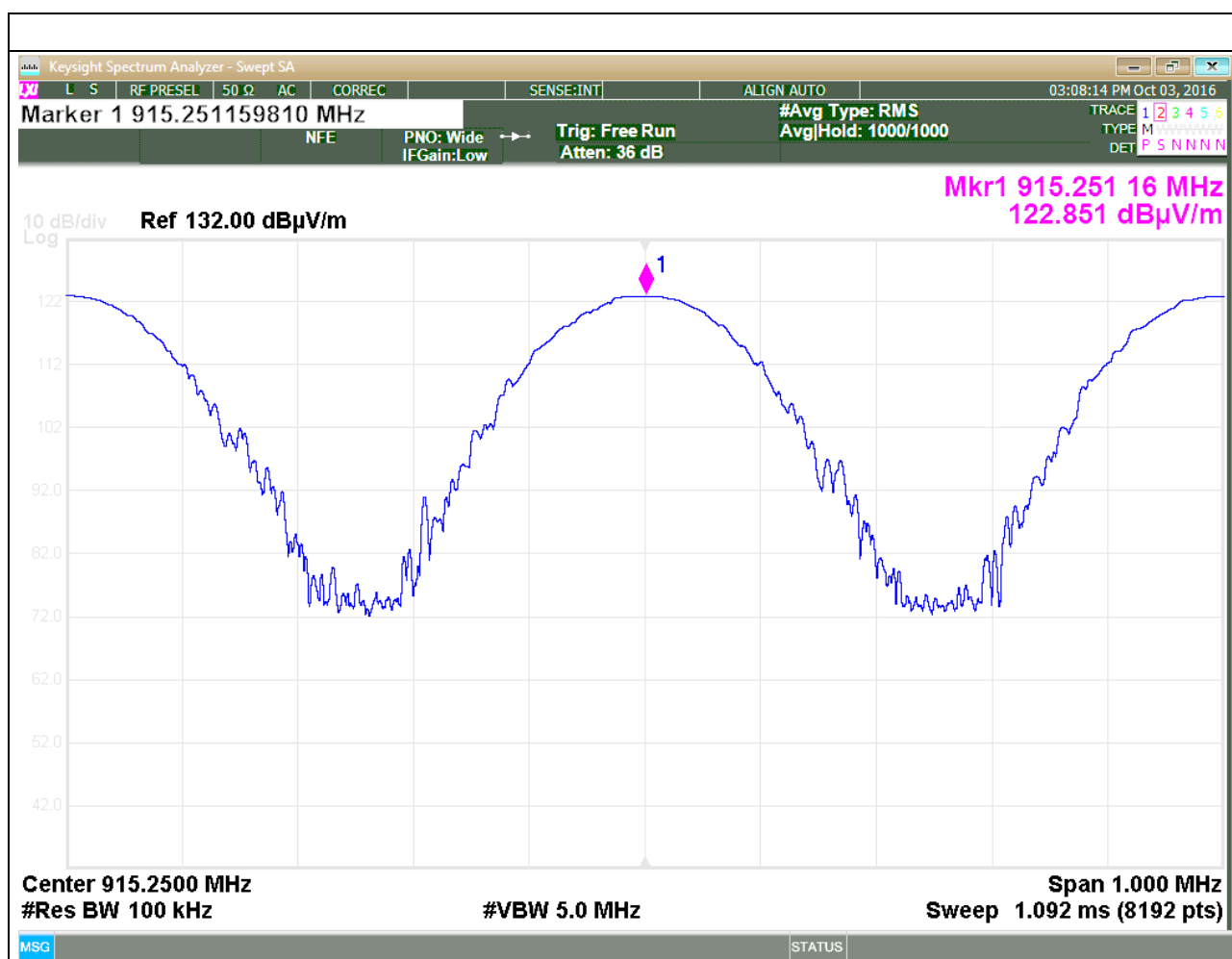
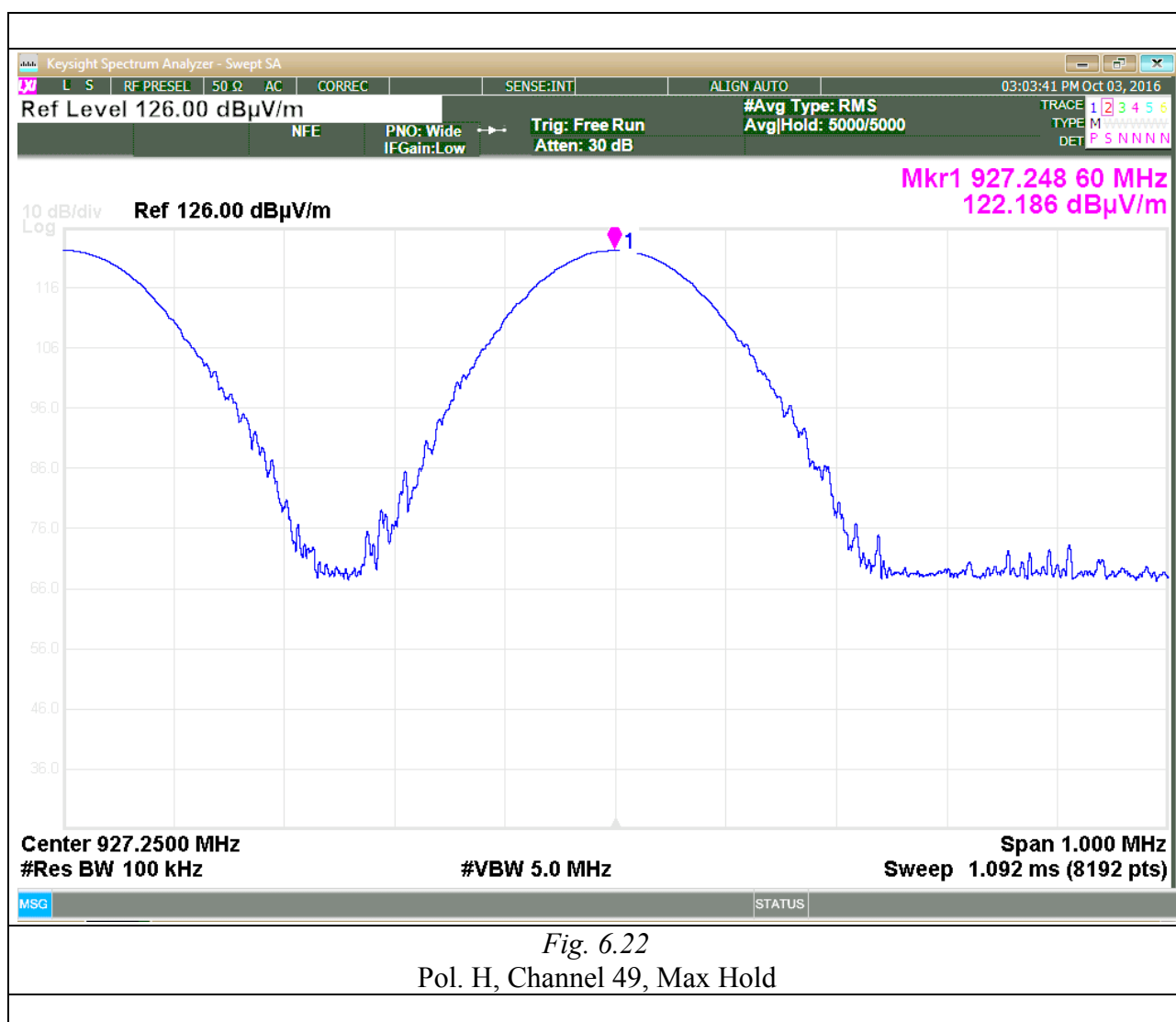


Fig. 6.21
Pol. H, Channel 25, Max Hold

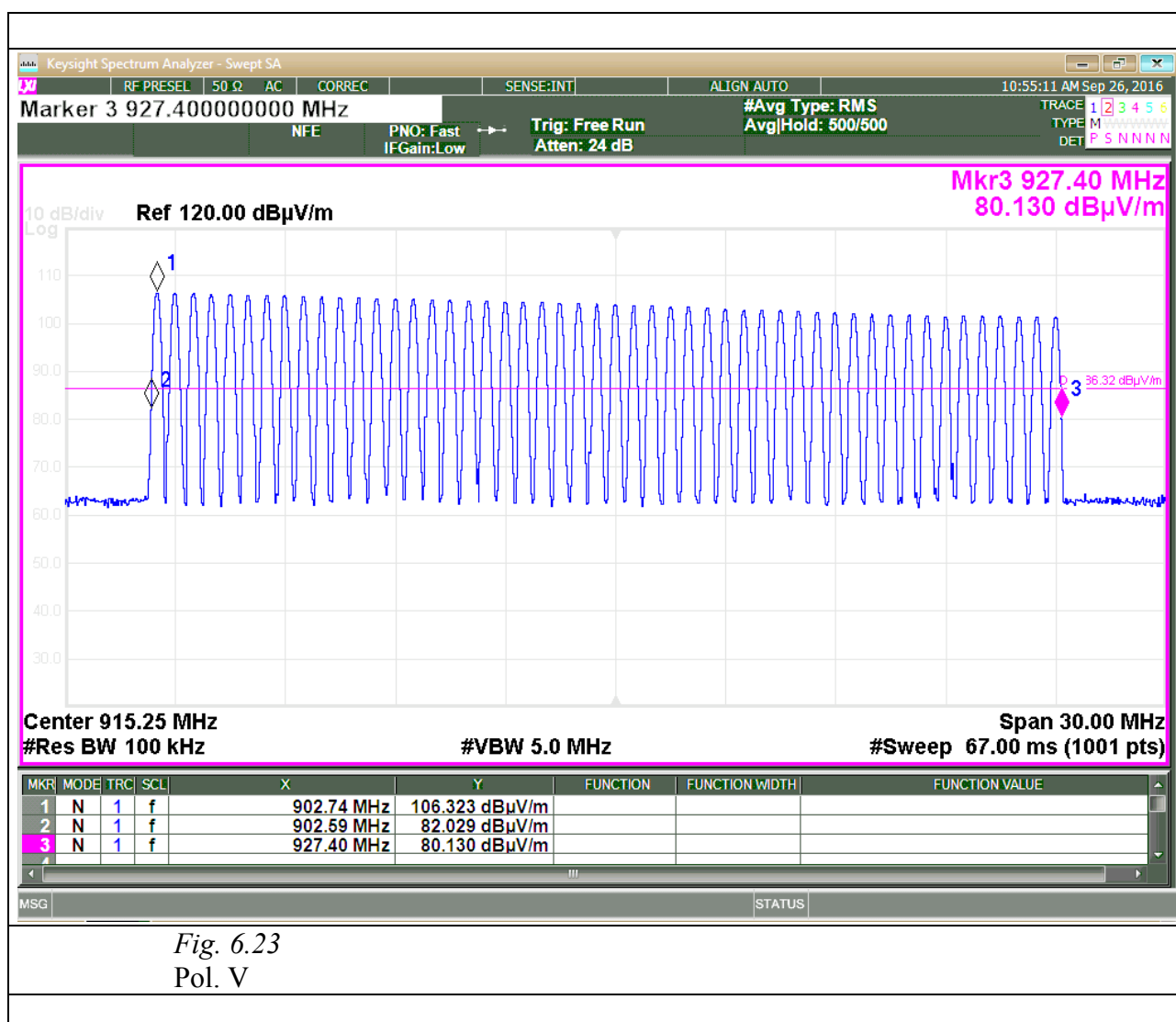


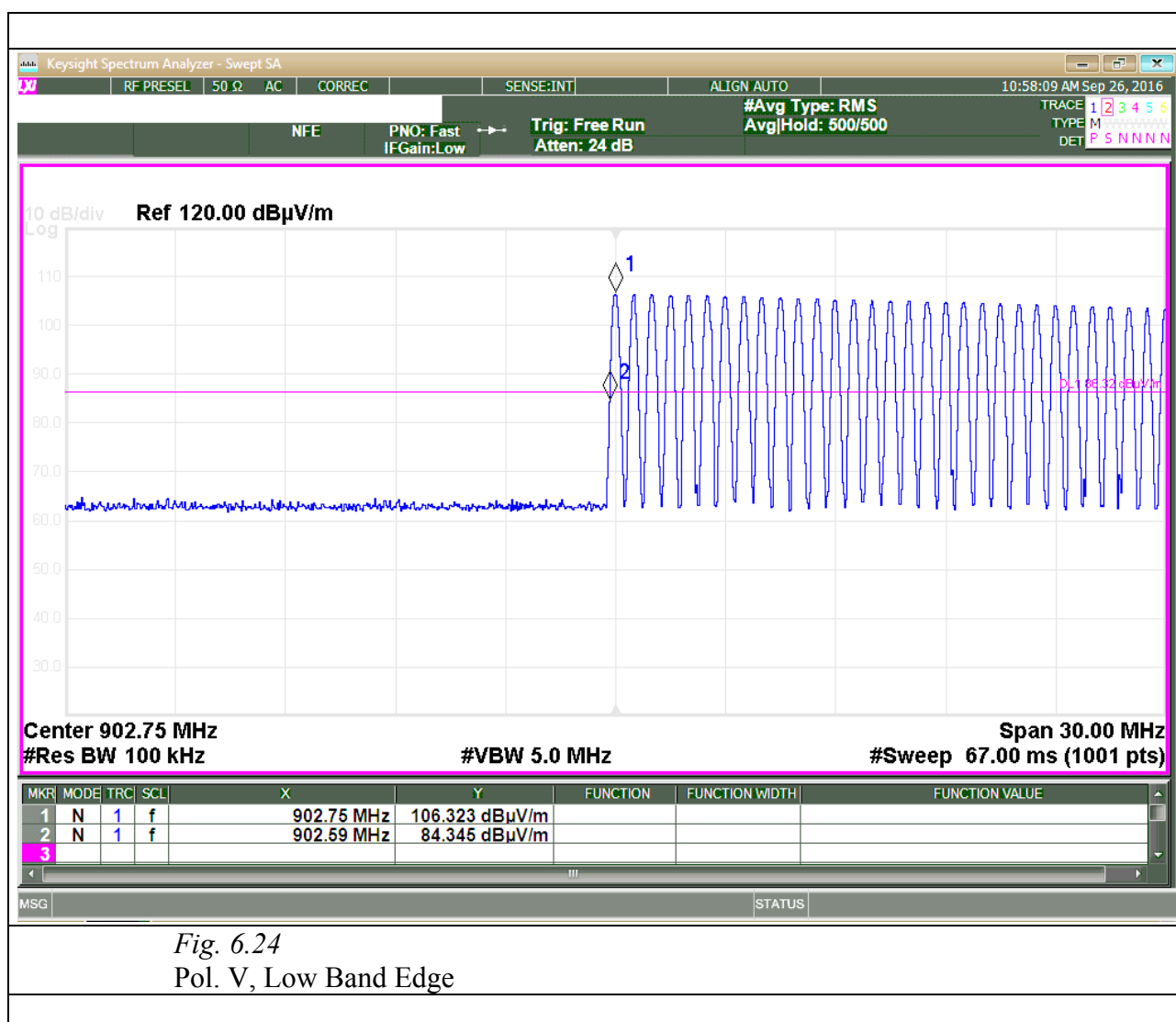
6.6. BAND EDGE
Emissions must be within the band 902-928 MHz.
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.
If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
<u>Measurements</u>
The following figures show the acquired graphics.

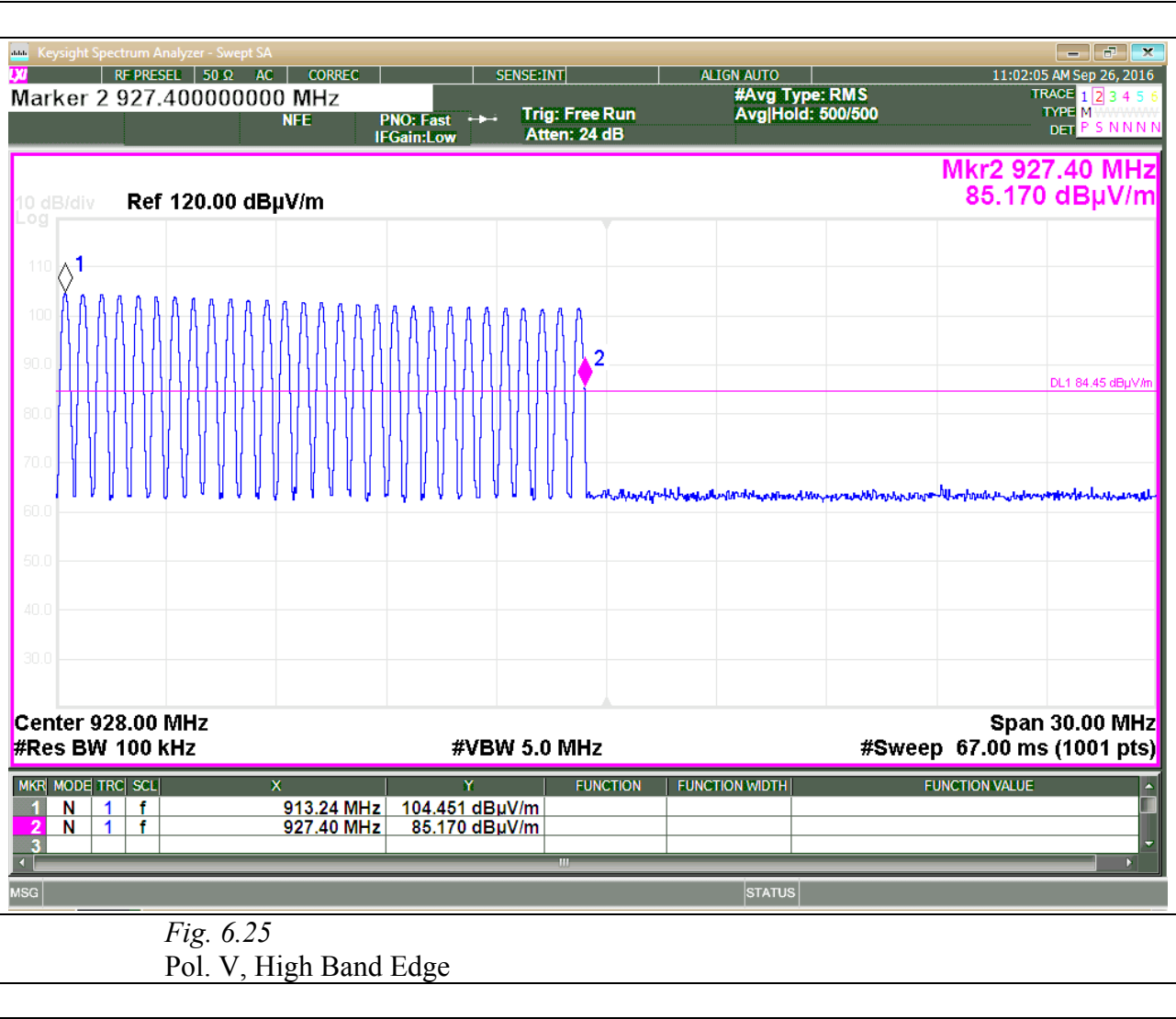
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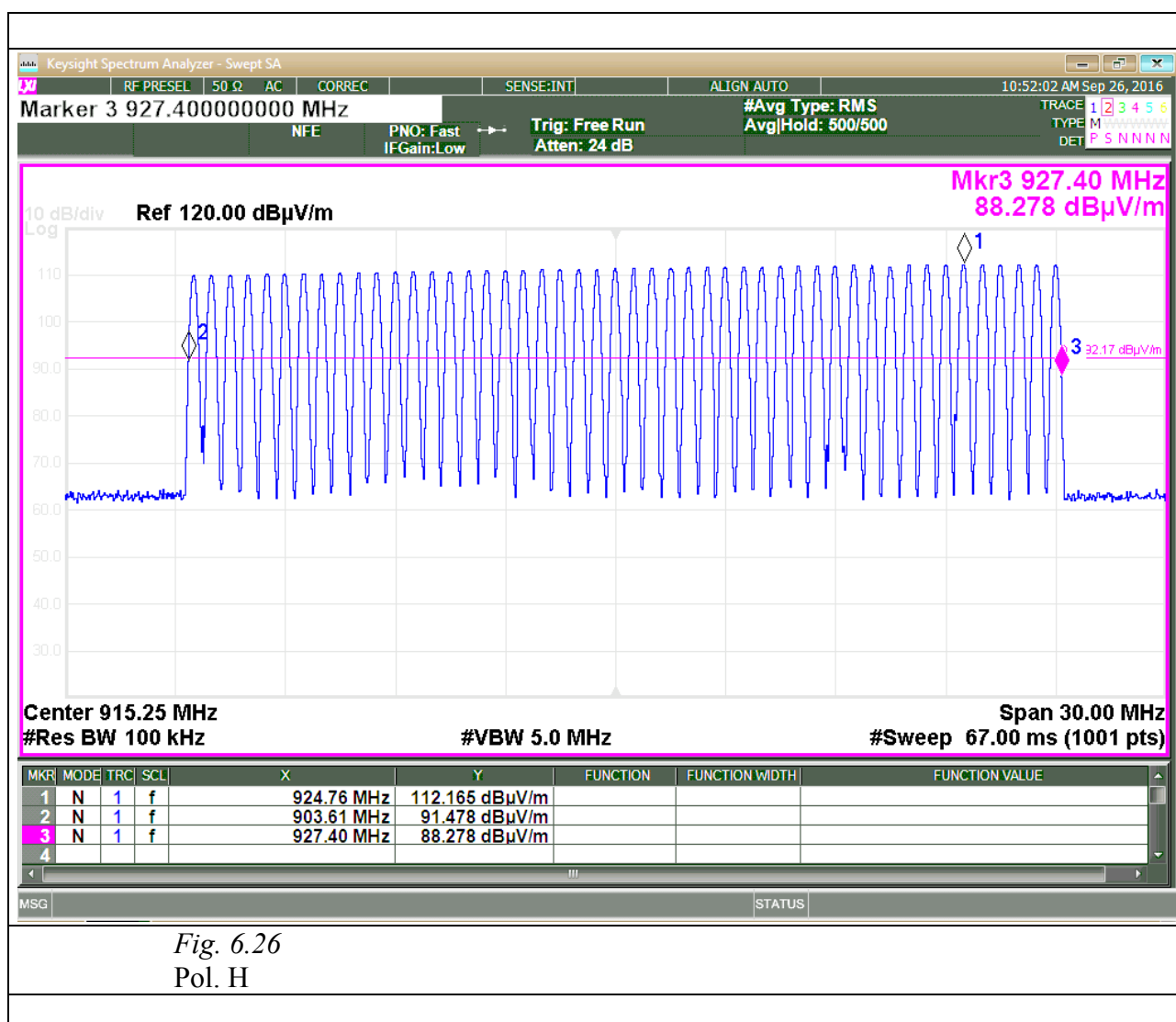
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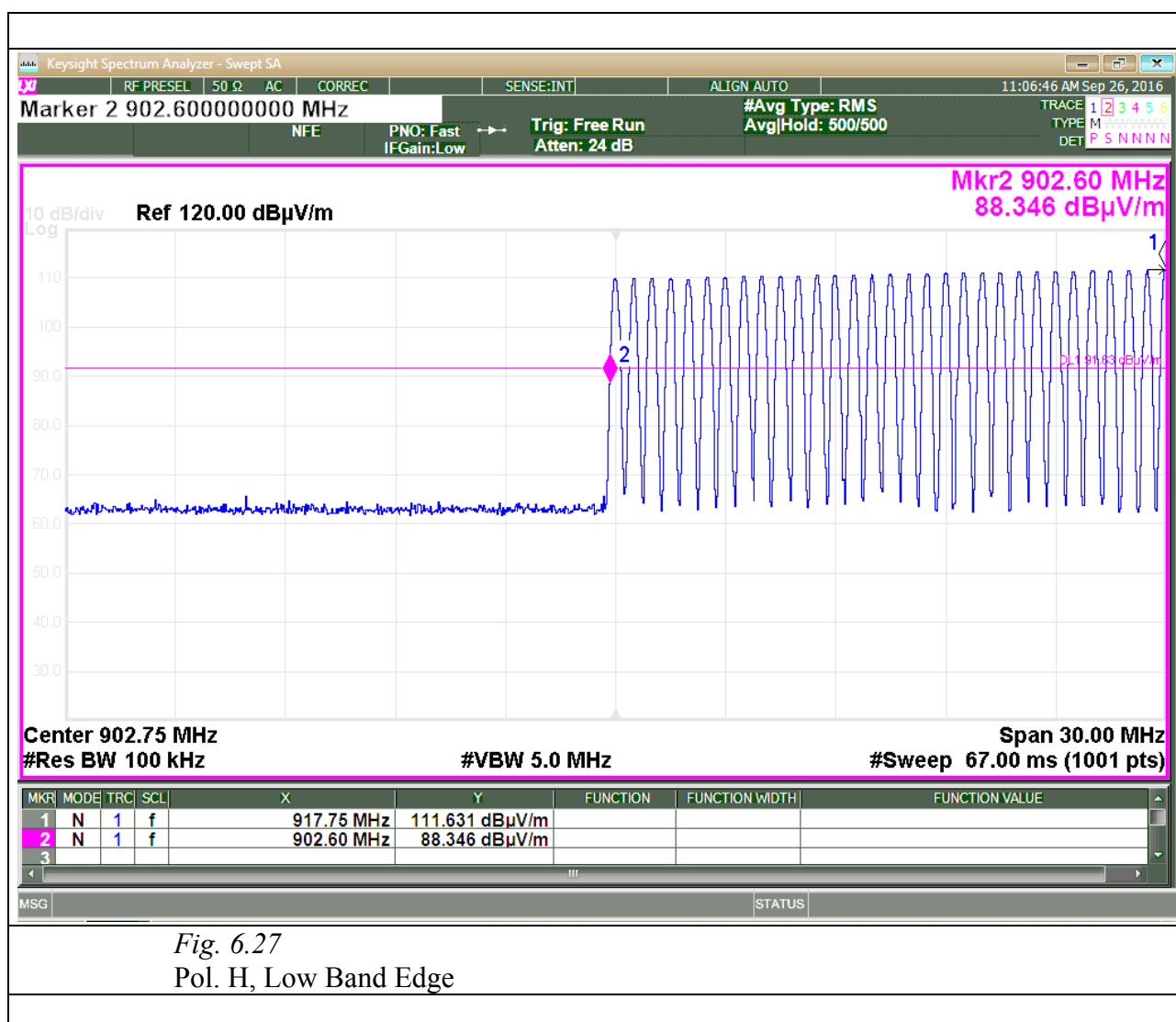
Report n. FCC-16721 Rev. 01, page 49 / 62

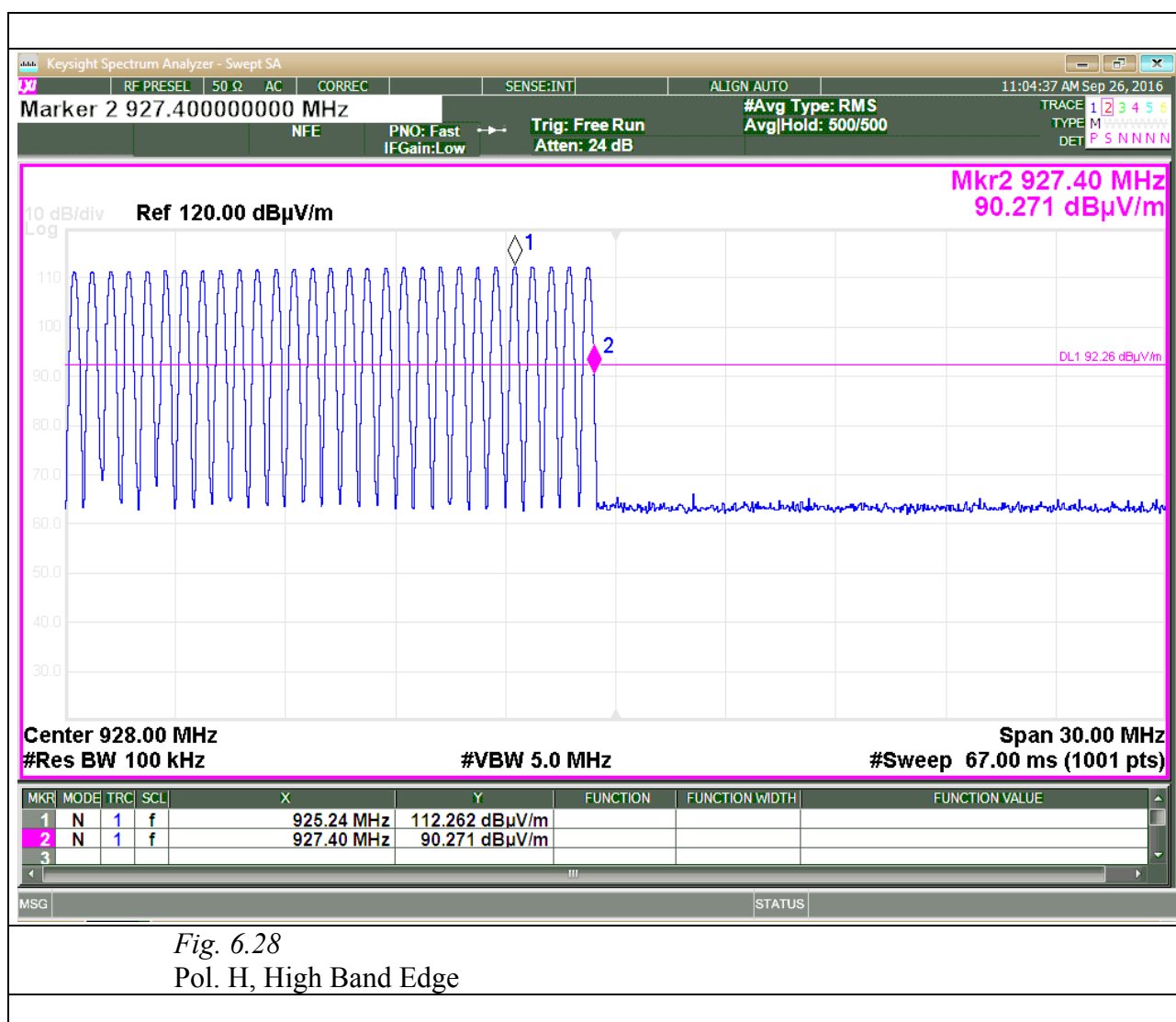












7. RADIATED OPERATION WITHIN THE BAND 902 - 928 MHz**7.1. SPURIOUS RADIATED EMISSIONS**

Nr Harmonics	AVG Level (dBμV/m)						AVG Limits (dBμV/m)	Remark
	Ch 0		Ch 25		Ch 49			
	F (MHz)	(dBμV/m)	F (MHz)	(dBμV/m)	F (MHz)	(dBμV/m)		
2	--	--	--	--	--	--	54.0	
3	--	--	--	--	--	--	54.0	
4	--	--	--	--	--	--	54.0	
5	--	--	--	--	--	--	54.0	
6	--	--	--	--	--	--	54.0	
7	--	--	--	--	--	--	54.0	
8	--	--	--	--	--	--	54.0	
9	--	--	--	--	--	--	54.0	
10	--	--	--	--	--	--	54.0	

Note: Levels below 20 dB of limits are indicated with (--).

Nr Harmonics	Peak Level (dBµV/m)						PK Limits (dBµV/m)	Remark
	Ch 0		Ch 25		Ch 49			
	F (MHz)	(dBµV/m)	F (MHz)	(dBµV/m)	F (MHz)	(dBµV/m)		
2	--	--	--	--	--	--	74.0	
3	--	--	--	--	--	--	74.0	
4	--	--	--	--	--	--	74.0	
5	--	--	--	--	--	--	74.0	
6	--	--	--	--	--	--	74.0	
7	--	--	--	--	--	--	74.0	
8	--	--	--	--	--	--	74.0	
9	--	--	--	--	--	--	74.0	
10	--	--	--	--	--	--	74.0	

Note: Levels below 20 dB of limits are indicated with (--).

Test Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DUE
MXE EMI Receiver	Agilent/Keysight	N9038A	01/2017
Anechoic Chamber	Comtest	CSA01	01/2017
Bilog Antenna	Schaffner	CBL6112B	01/2017
Horn Antenna	EMCO	3115	01/2017
Controller	Deisel	HD100	01/2017
Turn Table	Deisel	MA240	01/2017
LISN	GSD	NTW06	01/2017

Test procedure: CT15R01

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Report n. FCC-16721 Rev. 01, page 56 / 62*

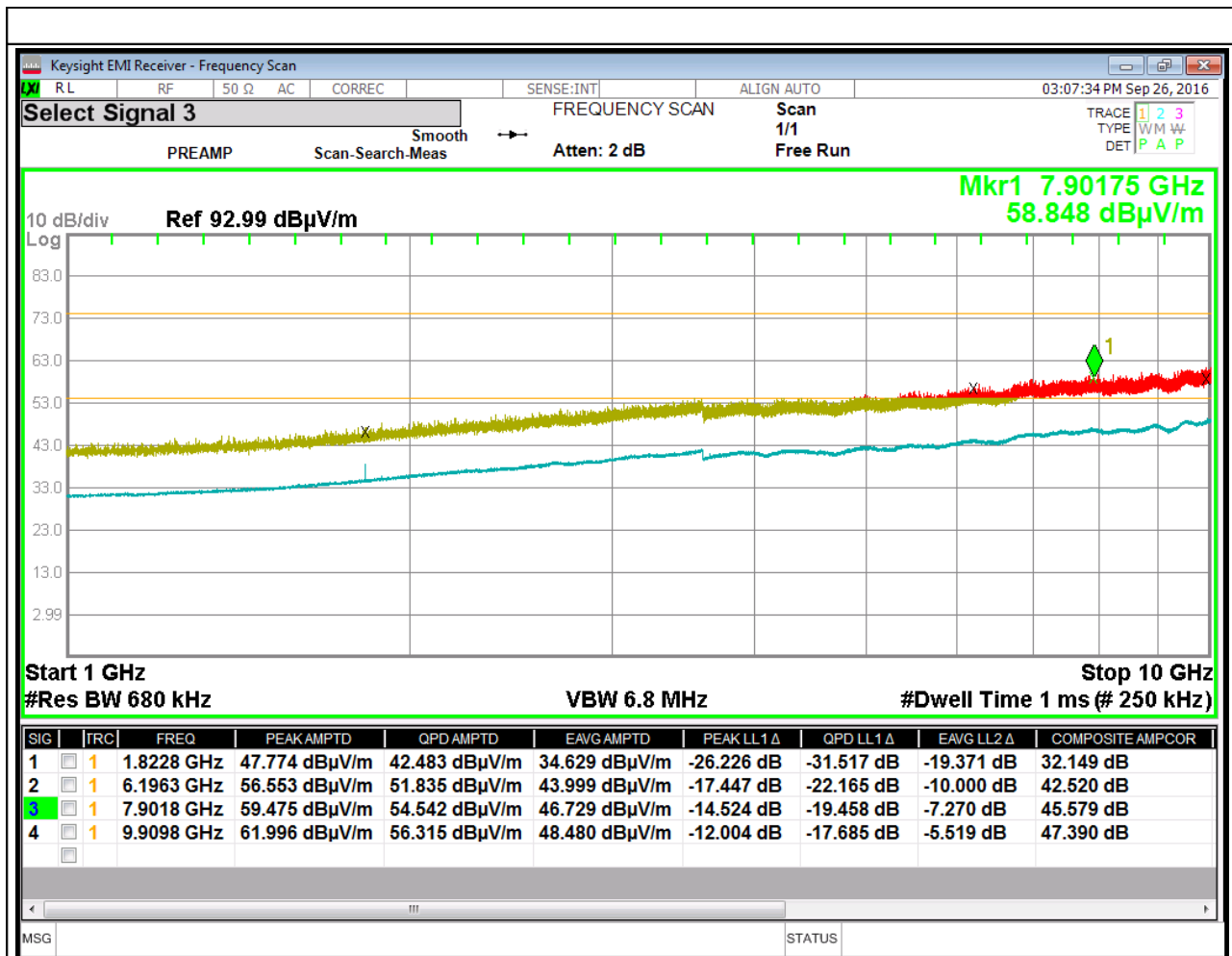


Fig. 7.1

POL V
MA: 100 cm
TT: 0°
EUT mode: Modulation

*Record of the measurement of radiated emissions (PK and AVG detector)
Maximum disturbance determined in the frequency range 1 – 10 GHz, Pol. V.*

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Report n. FCC-16721 Rev. 01, page 57 / 62

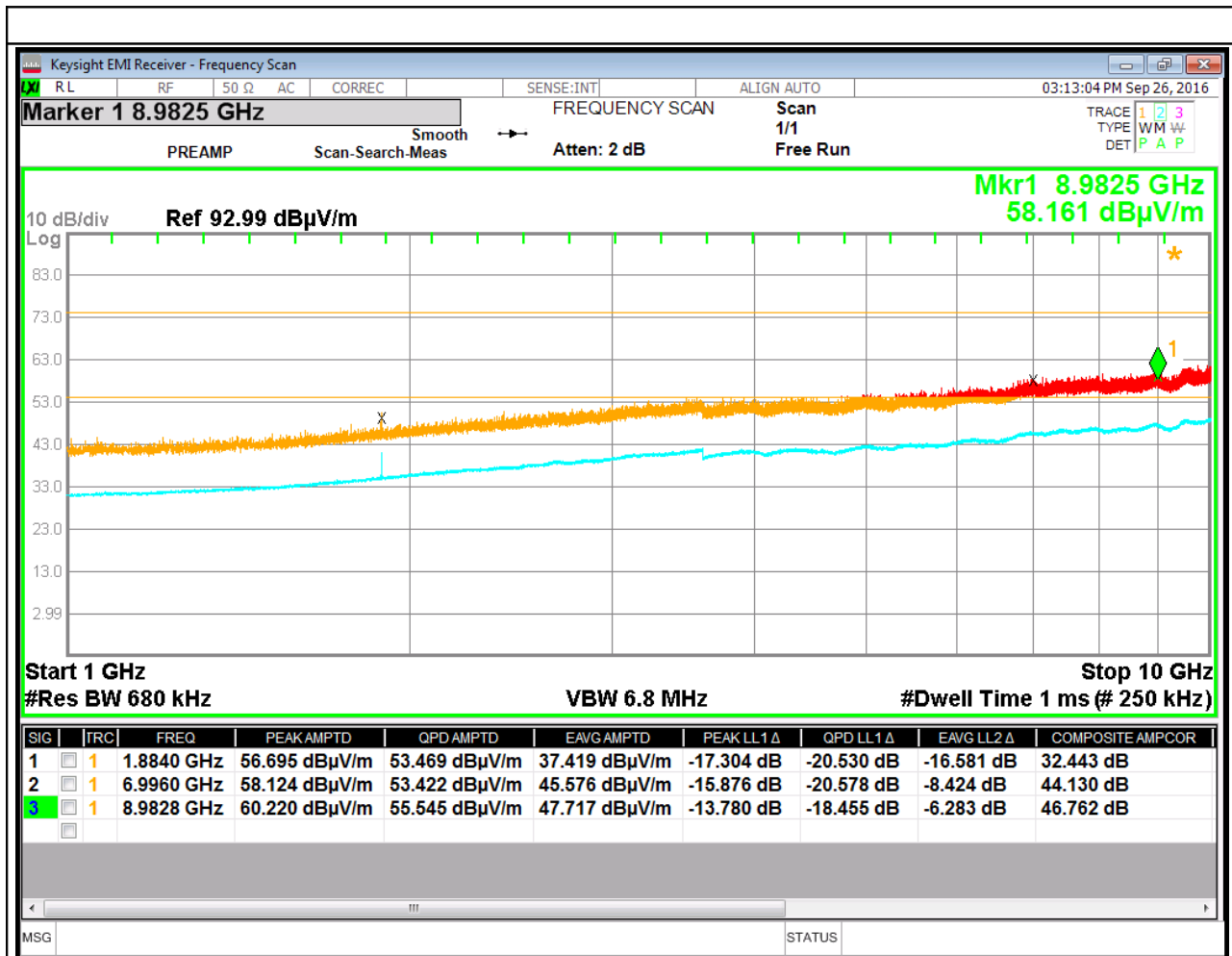


Fig. 7.2

POL H
MA: 181 cm
TT: 0°
EUT mode: Modulation

Record of the measurement of radiated emissions (PK and AVG detector)
Maximum disturbance determined in the frequency range 1 – 10 GHz, Pol. H.

8. PHOTO



Fig. 8.1

Conducted Emissions Test Set-up



Fig. 8.2

*Radiated Emissions Test Set-up
Range: 30 – 1000 MHz*

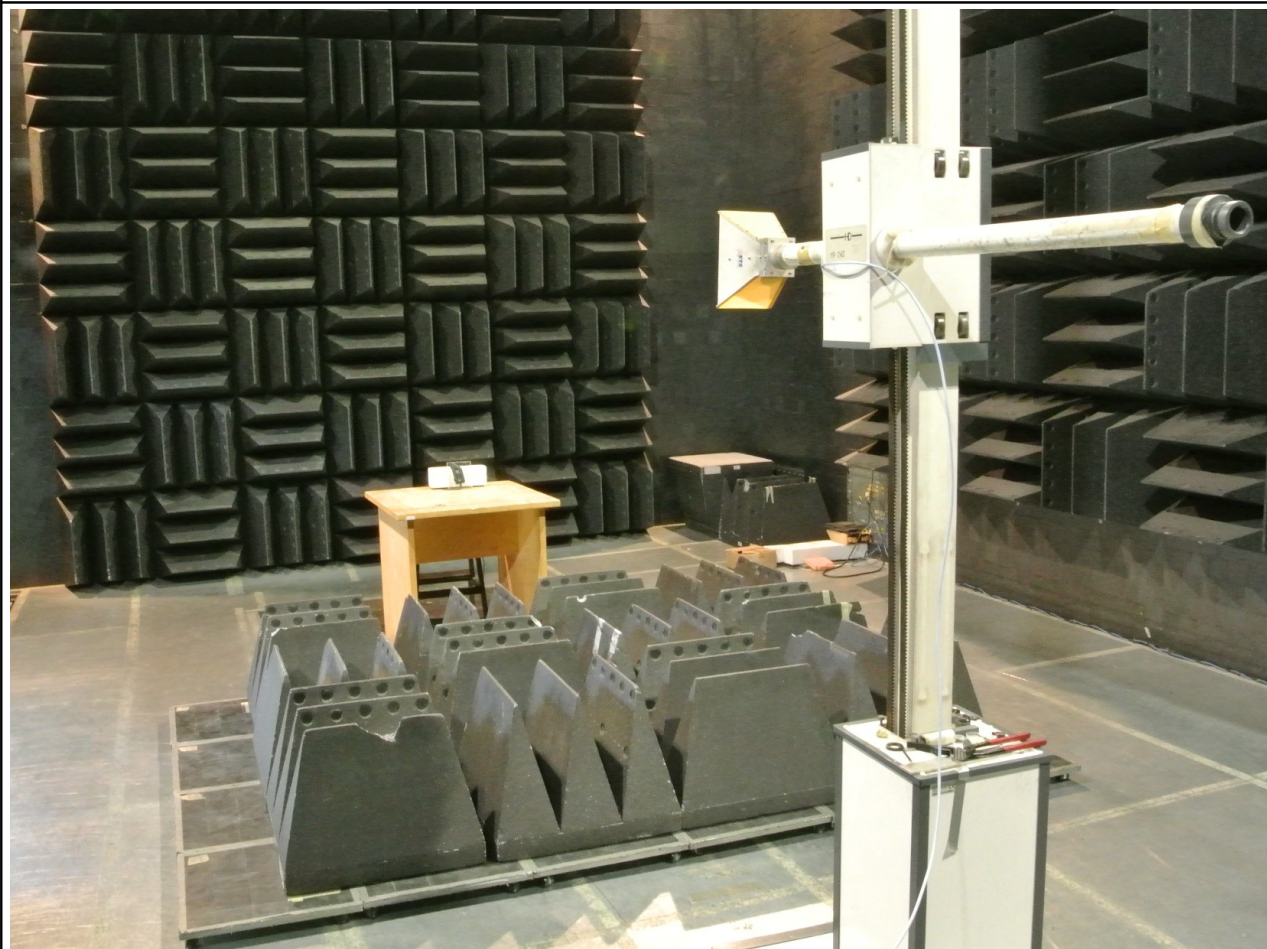


Fig. 8.3

*Radiated Emissions Test Set-up
Range: 1 – 10 GHz*

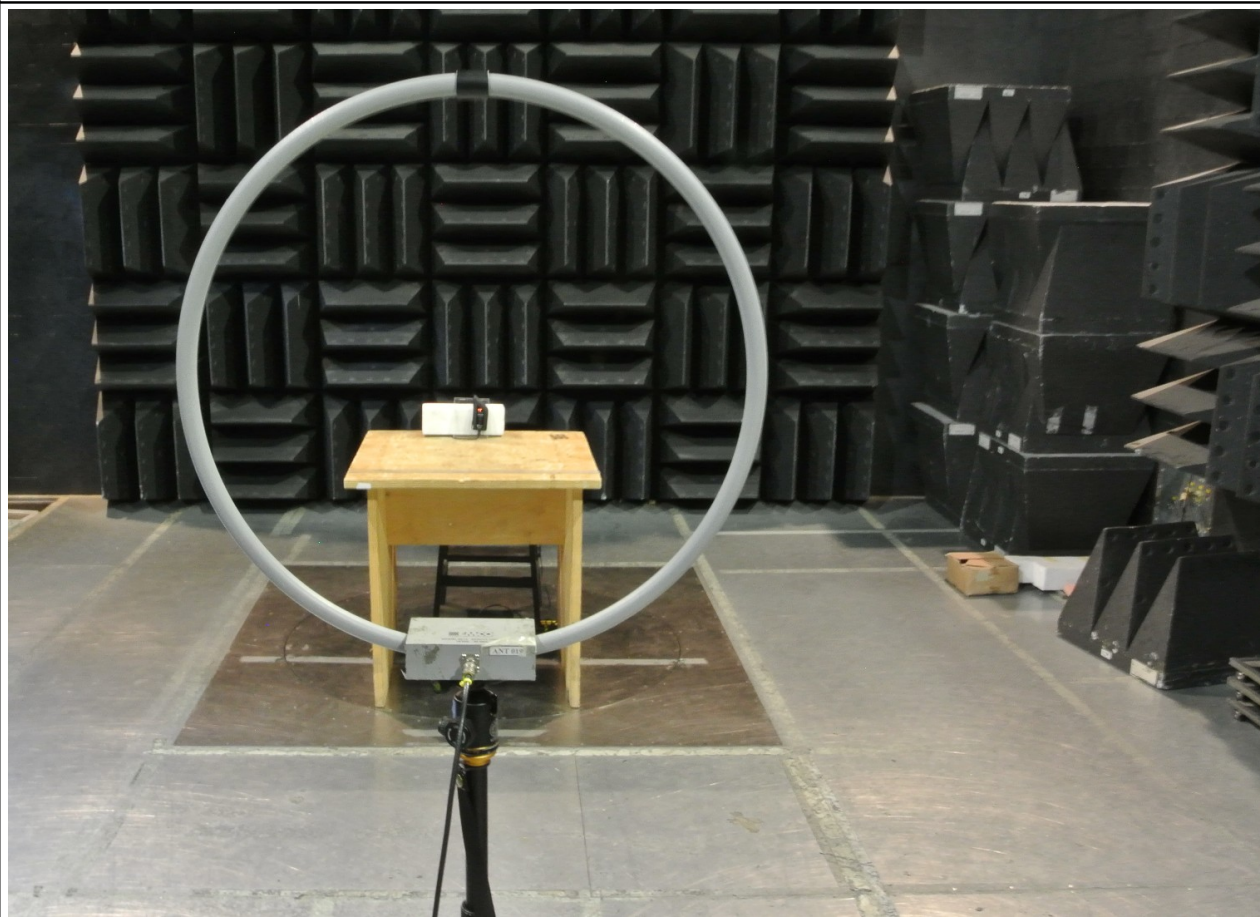


Fig. 8.4

Radiated Emissions Test Set-up

Range: 9 kHz – 30 MHz