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LASER SPECTROSCOPY  
ENVIRONMENTAL PHYSICS*



Organizzazione con Sistema  
di Gestione certificato  
*Company with Management  
System certified*

ISO 9001:2008

SINCERT

<b>G.S.D. Srl PISA - Italy</b>	<b><i>Test Report n. FCC-14359</i></b>	Rev. 01
<b>Manufacturer</b>	<b>CAEN RFID s.r.l.</b>	
Address	Via Vetraia, 11 55049 Viareggio (LU) Italy	
<b>Test Family Name</b>	<b>R4300P ION (UHF)</b>	
<b>Testing Laboratory Name</b>	<b>G.S.D. S.r.l.</b>	
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	FCC Listed: Registration Number: 424037	
<b>Location and Date of Issue</b>	<b>Pisa, 2014 April 22</b>	

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**SENIOR EMC TEST MANAGER**  
*Dr. Gian Luca Genovesi*

QUALITY MANAGER  
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1. MANUFACTURER AND EUT IDENTIFICATION <sup>1</sup>	
<b>Manufacturer</b>	<b>CAEN RFID s.r.l..</b>
Address	Via Vetraia, 11 55049 Viareggio (LU) Italy
<b>Test Family Name</b>	<b>R4300P ION (UHF)</b>
Date of reception	<b>2014 January 23</b>
Sampling	<b>Laboratory sample for certification</b>
Test Item Description	<b>RFID Device</b>
Nominal Input Voltage	<b>24 Vdc</b>
<b>FCC ID</b>	<b>UVECAENRFID008</b>

<sup>1</sup>A detailed documentation is preserved in the internal fascicle.

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*Fig. 1.1  
Equipment Photo*

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## 2. REFERENCE STANDARDS

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

<b>TEST</b>	<b>STANDARD</b>
Emissions: Conducted and Radiated – Section 15.207 and 15.209	FCC Rules ad Regulations, Title 47 (2008) Part 15 – Sub part B  ANSI C63.4 2009 – 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
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)	FCC Rules ad Regulations, Title 47 (2008) Part 15 – Sub part B  DA 00-705 (30 March 2000) – Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems  ANSI C63.4 2009 – 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
Maximum Permissible Exposure	OET Bulletin 65 Evaluating Compliance with FCC Guidelines for Human Exposure to Radio-Frequency Electromagnetic Fields  FCC Rules ad Regulations, Title 47 (2008) Part 15 – Sub part B  DA 00-705 (30 March 2010) – Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

### 3. RESULT, CONDITION, MEASUREMENT UNCERTAINTY

#### Summary of Test Results

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

#### Measurement uncertainty

<b>TEST</b>	<b>EXPANDED UNCERTAINTY</b>
Conducted Emission – $50\Omega/50\mu\text{H}$ (150 kHz - 30 MHz)	$\pm 3.5 \text{ dB}$
Radiated Emission – (Semianechoic Room) (30 MHz - 18 GHz)	$\pm 4.7 \text{ dB}$

#### Climatic Conditions

<b>PARAMETER</b>	<b>VALUE</b>
Temperature	$(293 \pm 3) \text{ K}$
Relative humidity	$(50 \pm 5) \%$

#### Extensions

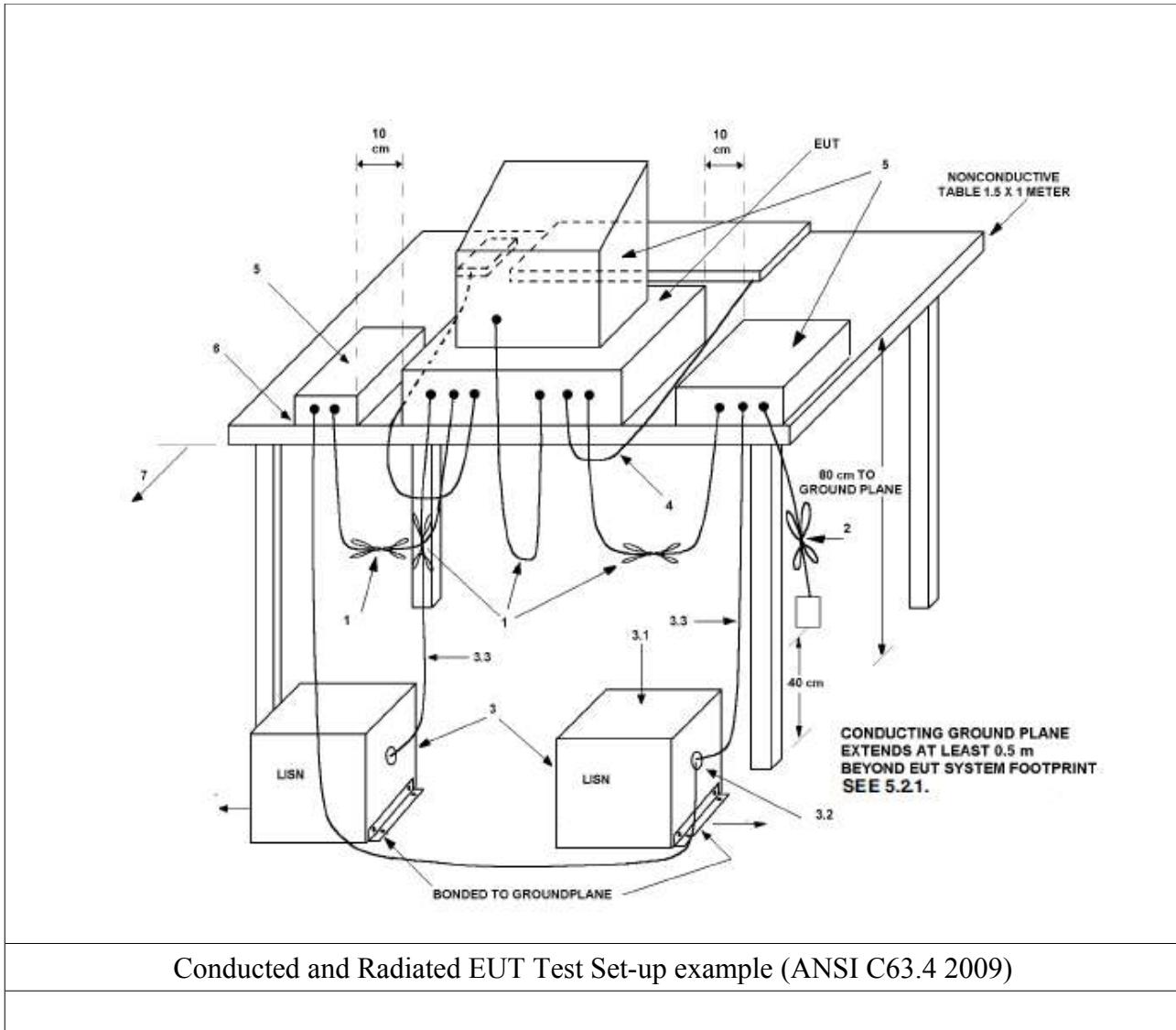
The results refer only to the sampled EUT and under the specified conditions.

#### Modulations:

Type 1: DSB\_ASK\_FM0\_TX160\_RX400  
Type 2: PR\_ASK\_M4\_TX40RX250

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Conducted and Radiated EUT Test Set-up example (ANSI C63.4 2009)

#### 4. RADIATED EMISSIONS

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

FREQUENCY RANGE (MHz)	Field Strength QUASI-PEAK LIMITS [dB ( $\mu$ V/m)]
30 ÷ 88	40
88 ÷ 216	43,5
216 ÷ 960	46
Above 960	54

#### Test Equipment

EQUIPMENT	MANUFACTURER	MODEL	CAL. DUE
MXE EMI Receiver	Agilent	N9038A	01/2015
Anechoic Chamber	Comtest	CSA01	01/2015
Bilog Antenna	Schaffner	CBL6112B	01/2015
Horn Antenna	EMCO	3115	01/2015
Horn Antenna	Alpha Industries	61932500	01/2015
Controller	Deisel	HD100	01/2015
Turn Table	Deisel	MA240	01/2015
LISN	GSD	NTW06	01/2015

#### Test procedure: RE22R02

#### Notes

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 anticlockwise.

Antenna height respect to the mass plane is conventionally individuated with: MA=XXX where XXX indicates the height (always positive for e>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.

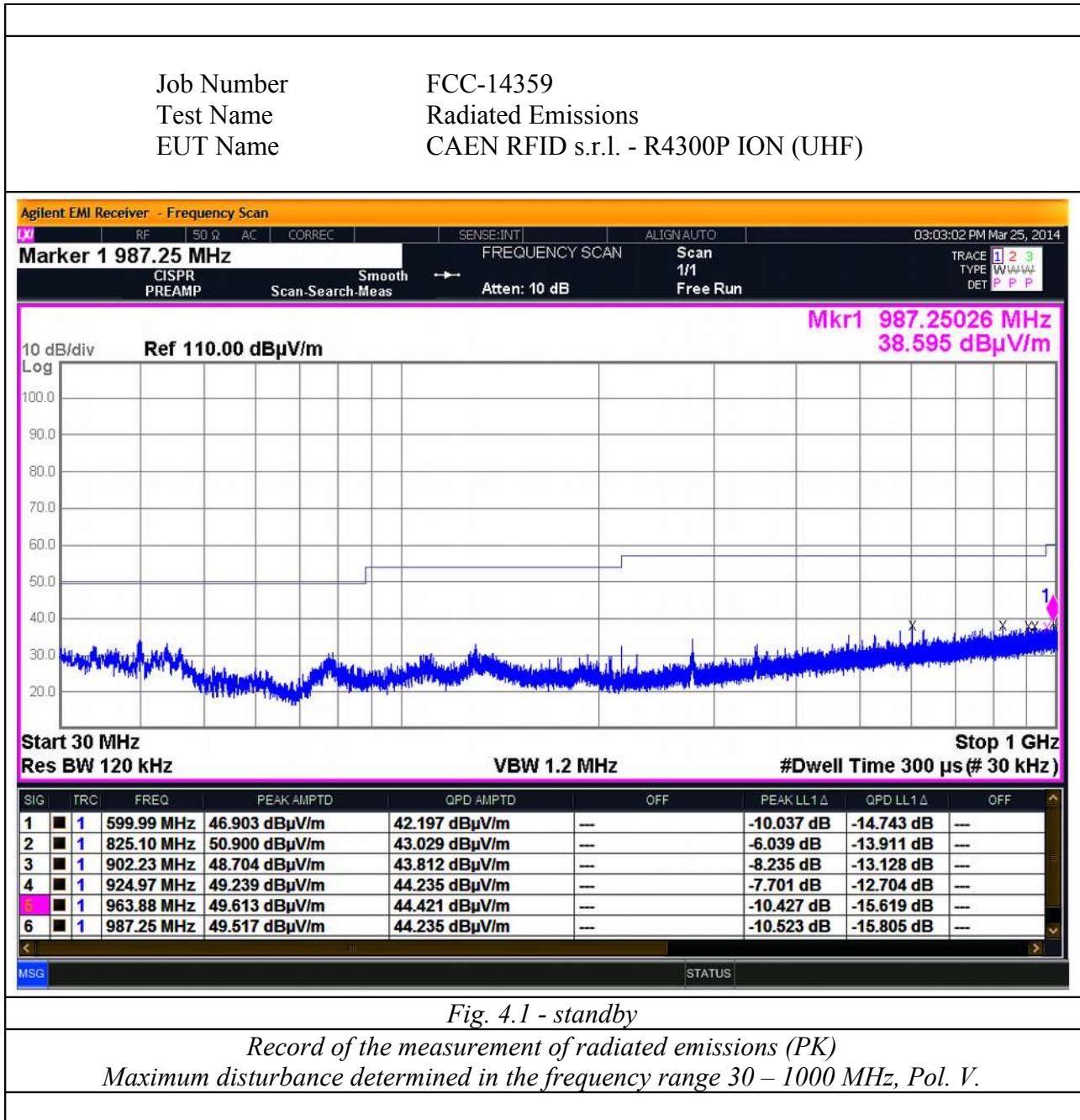
#### Results and conclusions

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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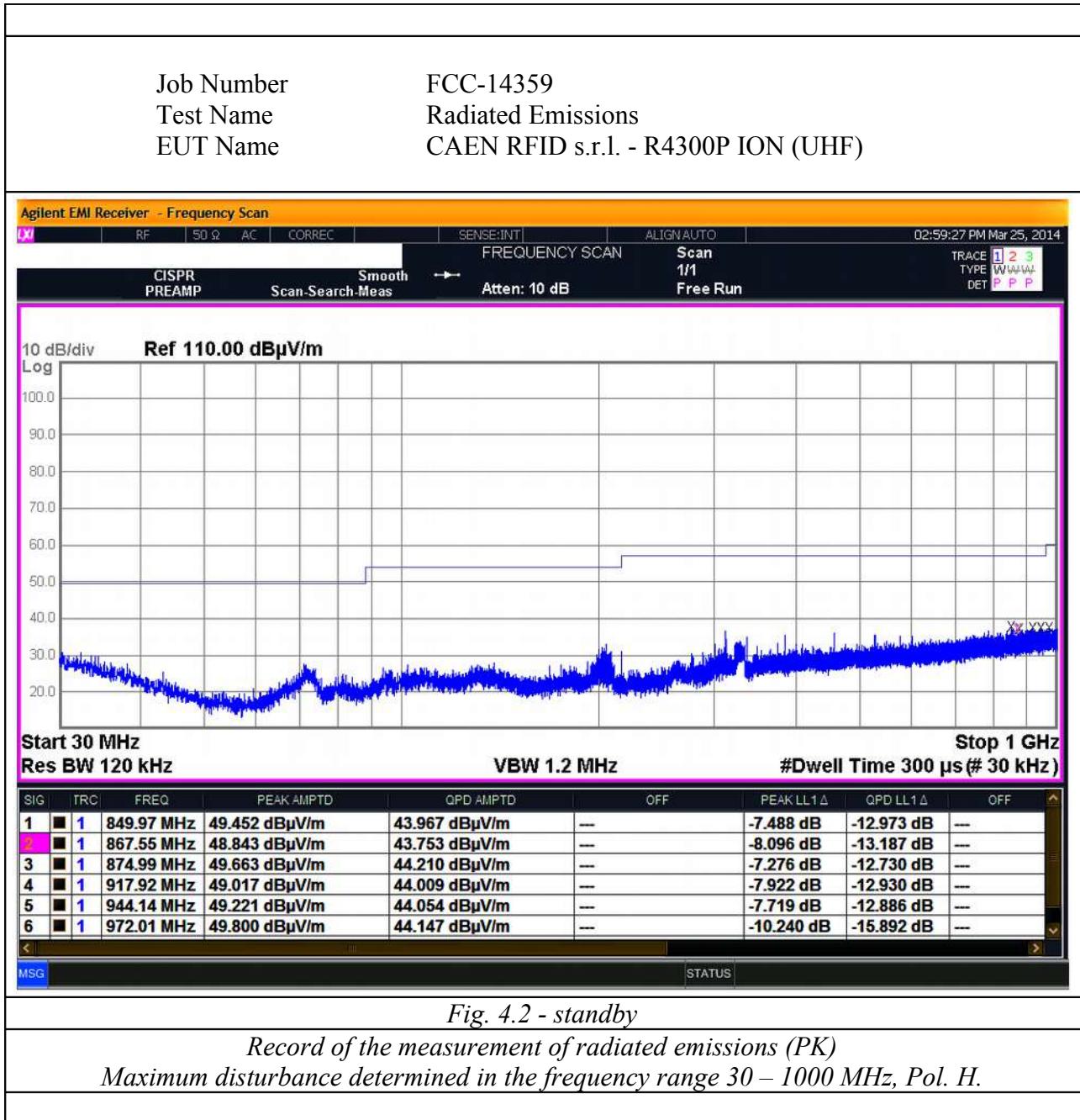
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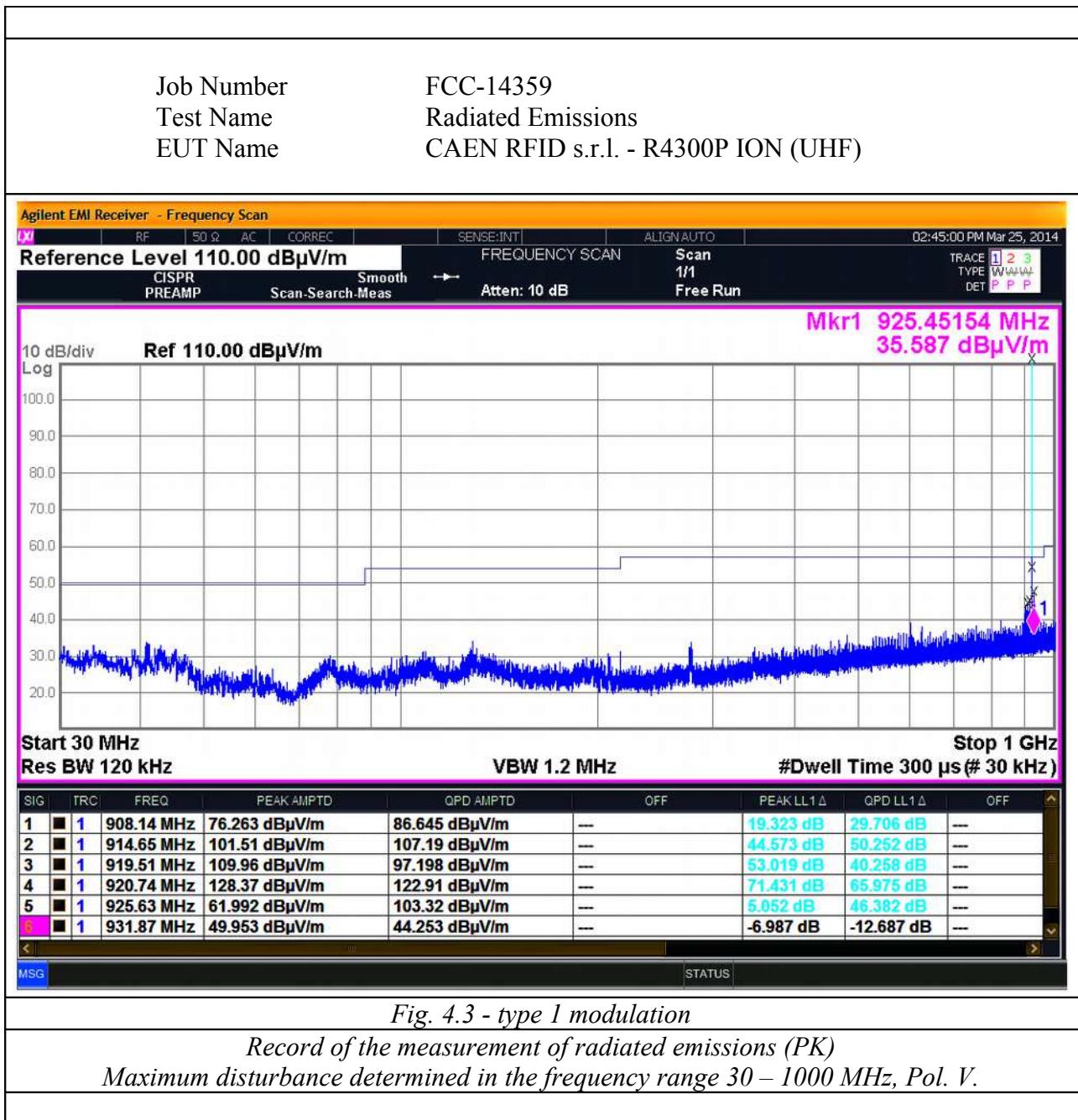
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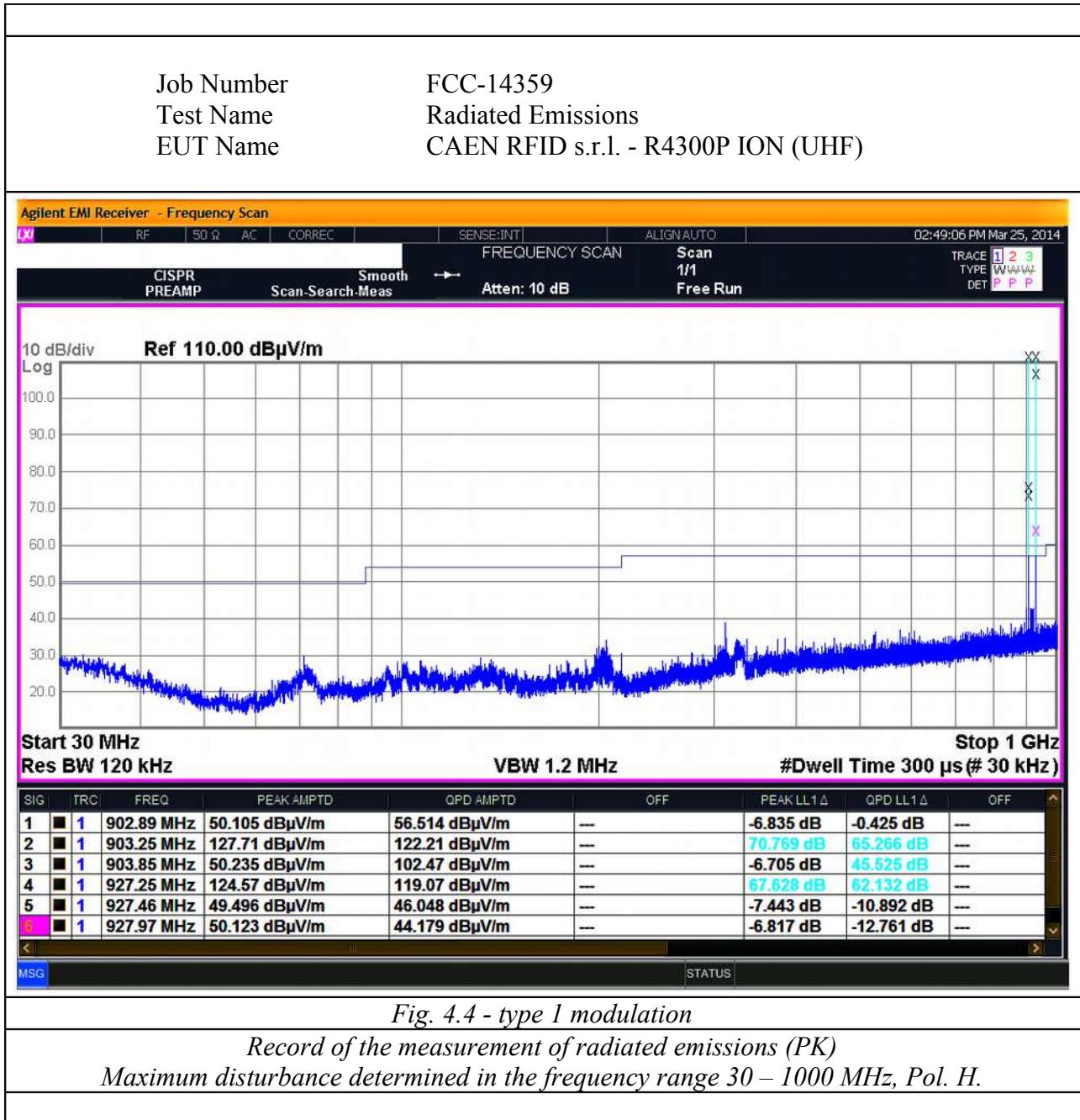
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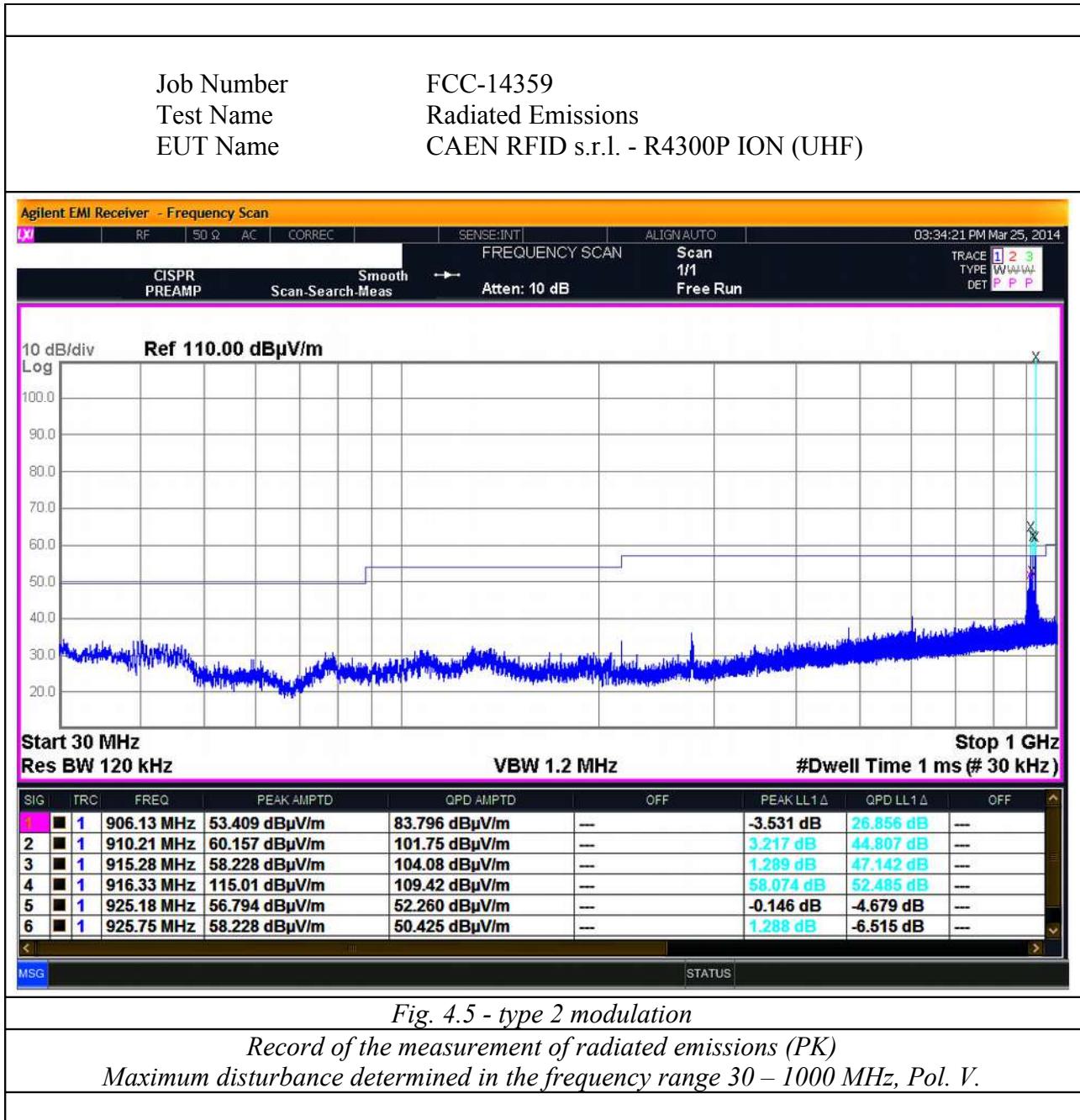
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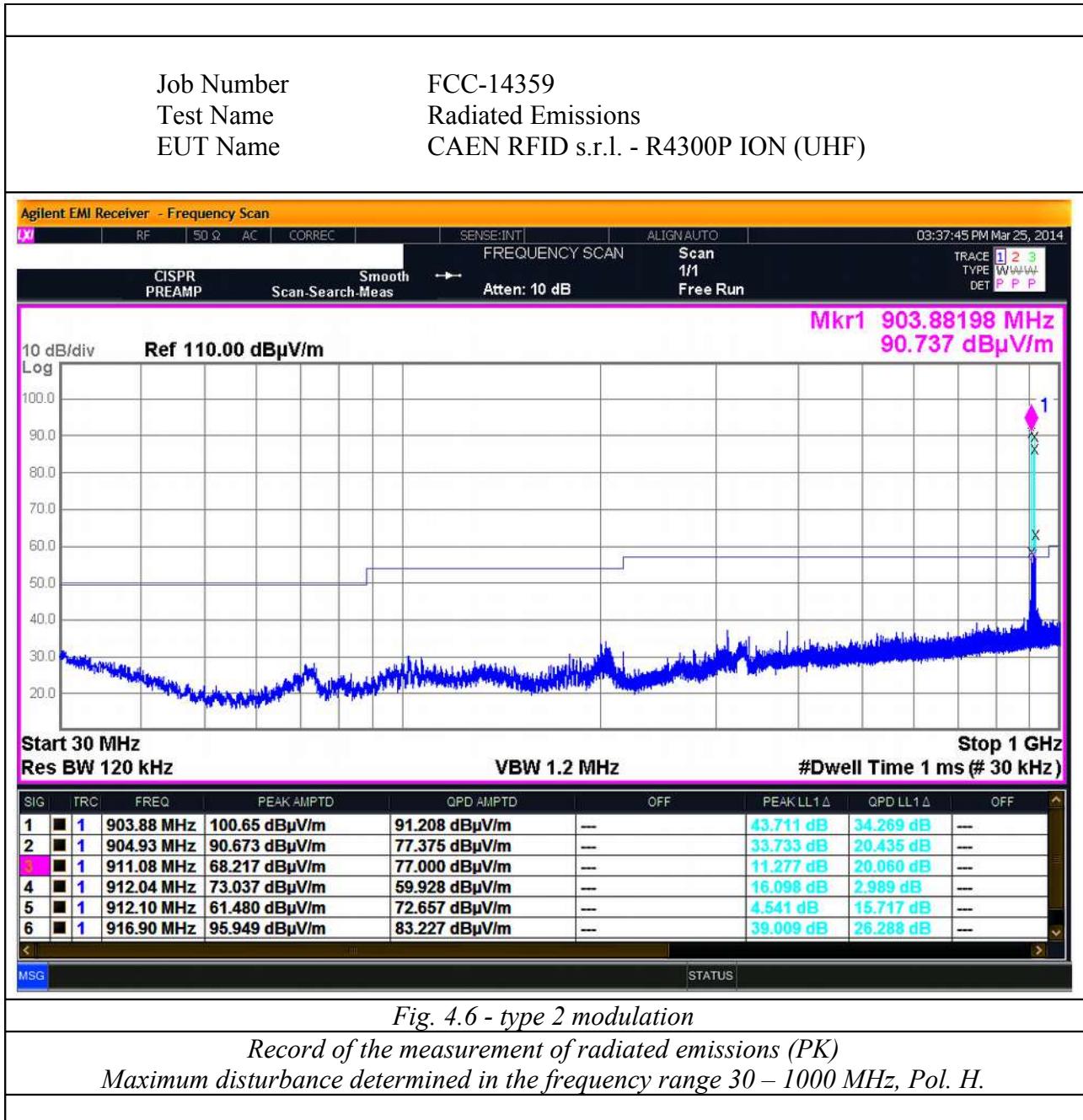
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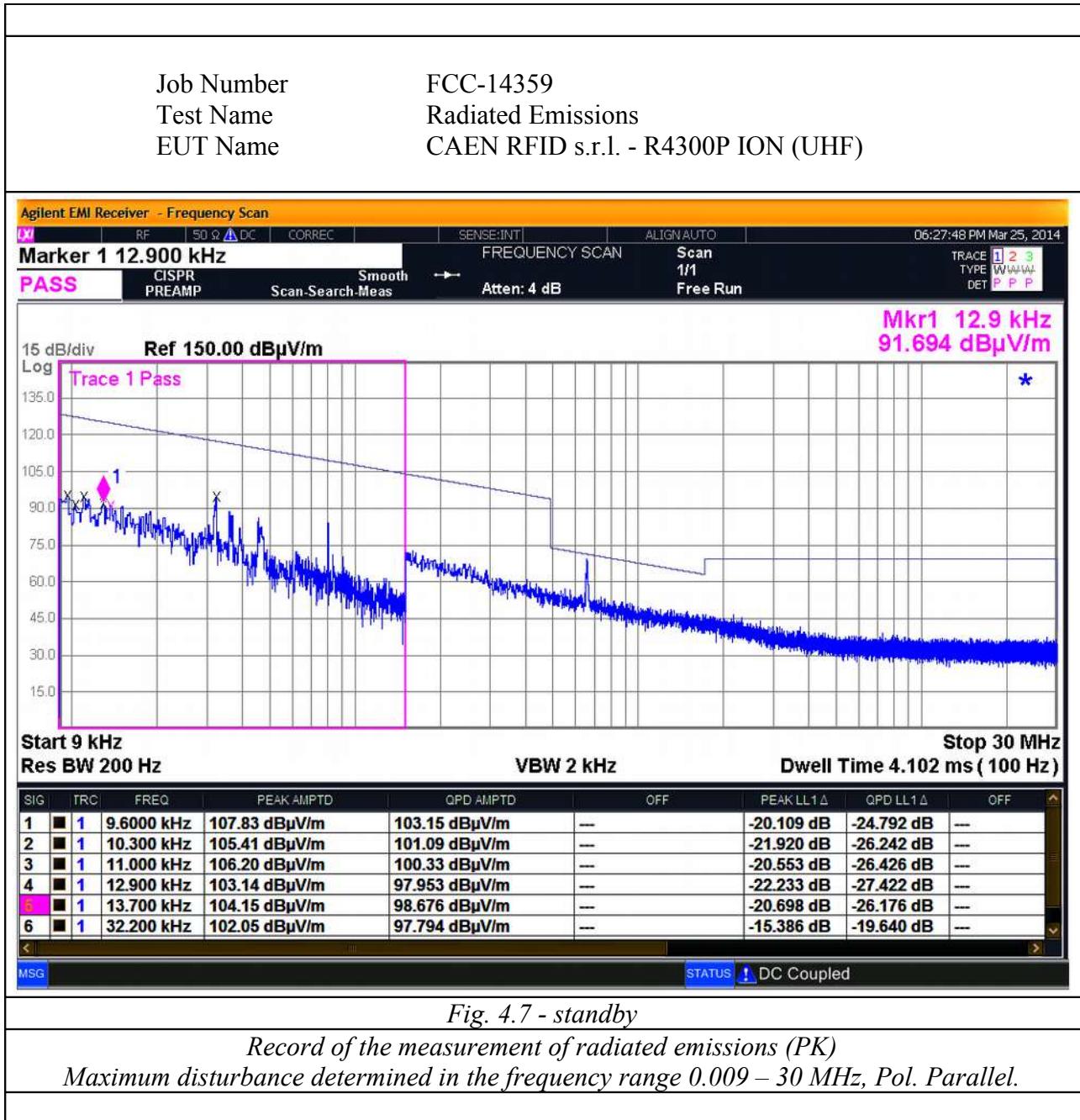
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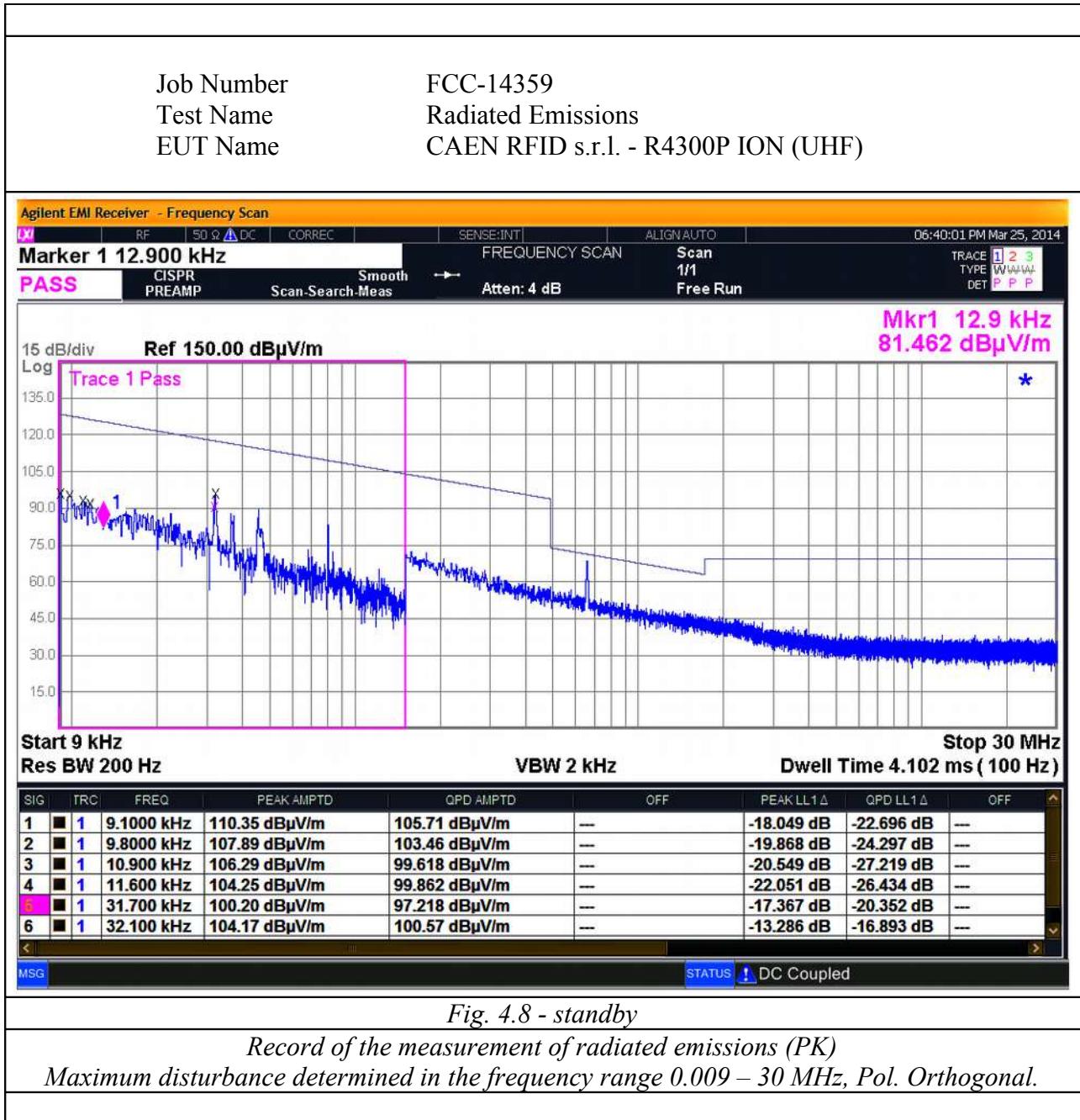


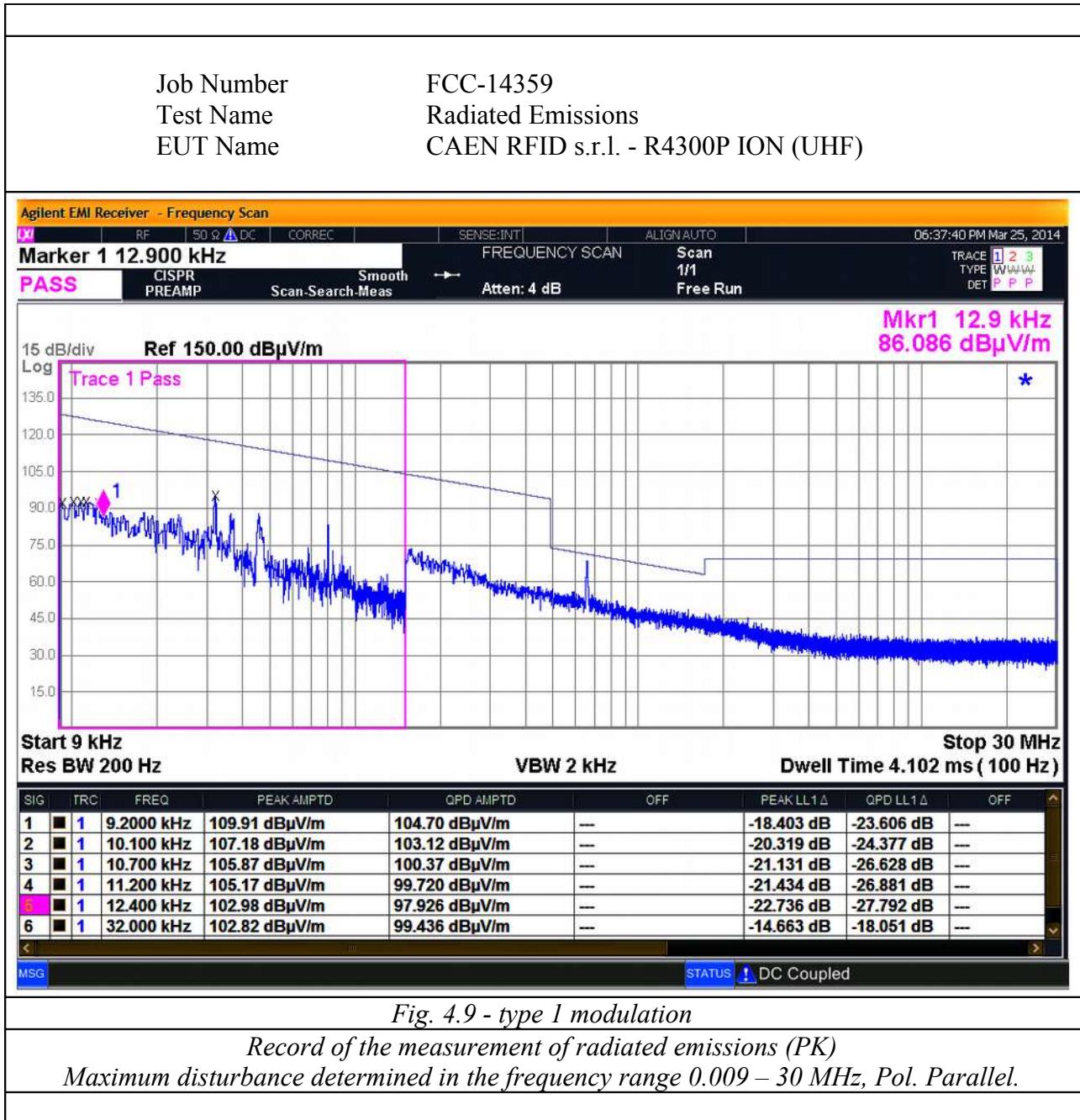
Fig. 4.8 - standby

Record of the measurement of radiated emissions (PK)

Maximum disturbance determined in the frequency range 0.009 – 30 MHz, Pol. Orthogonal.

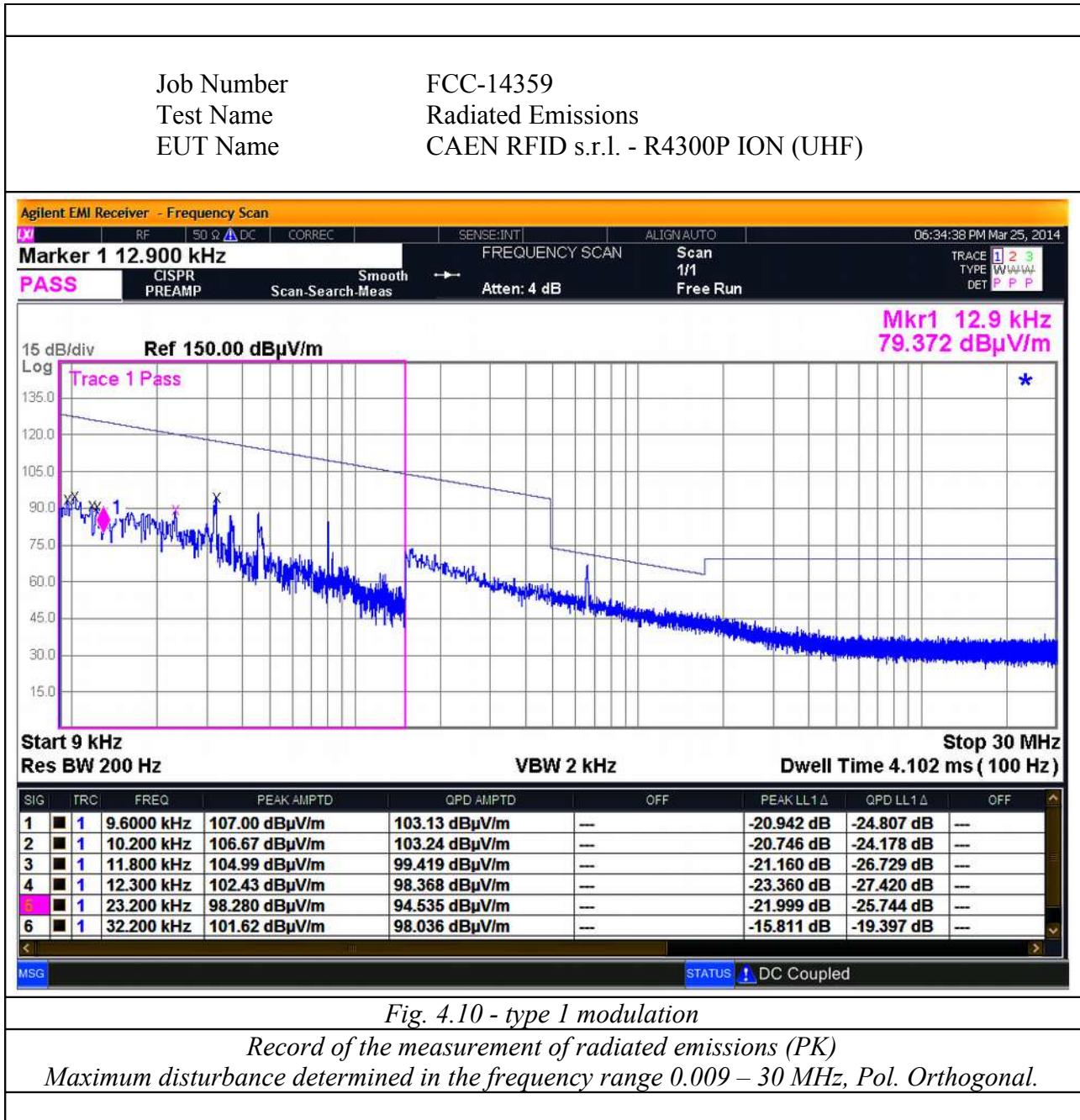
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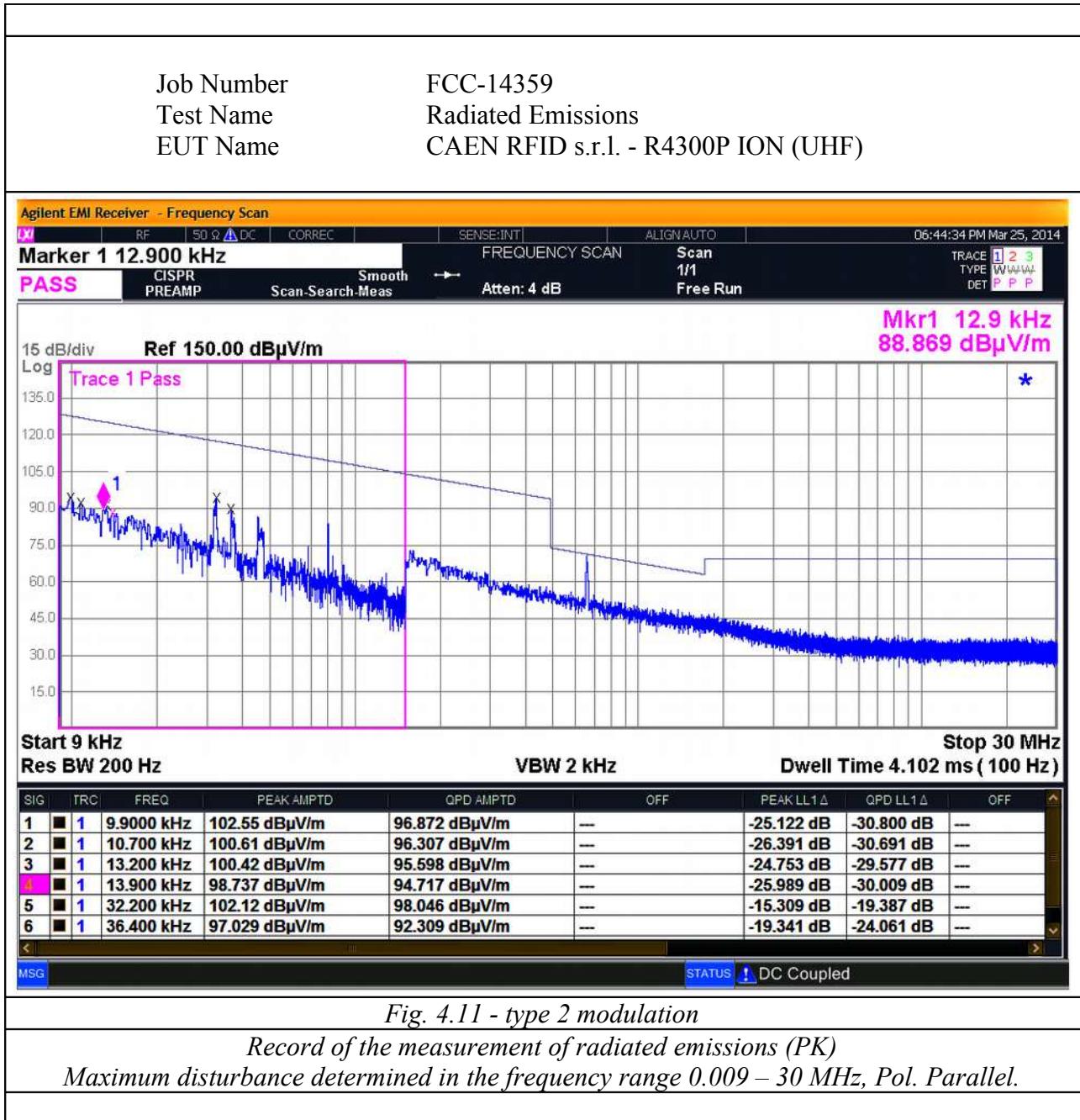
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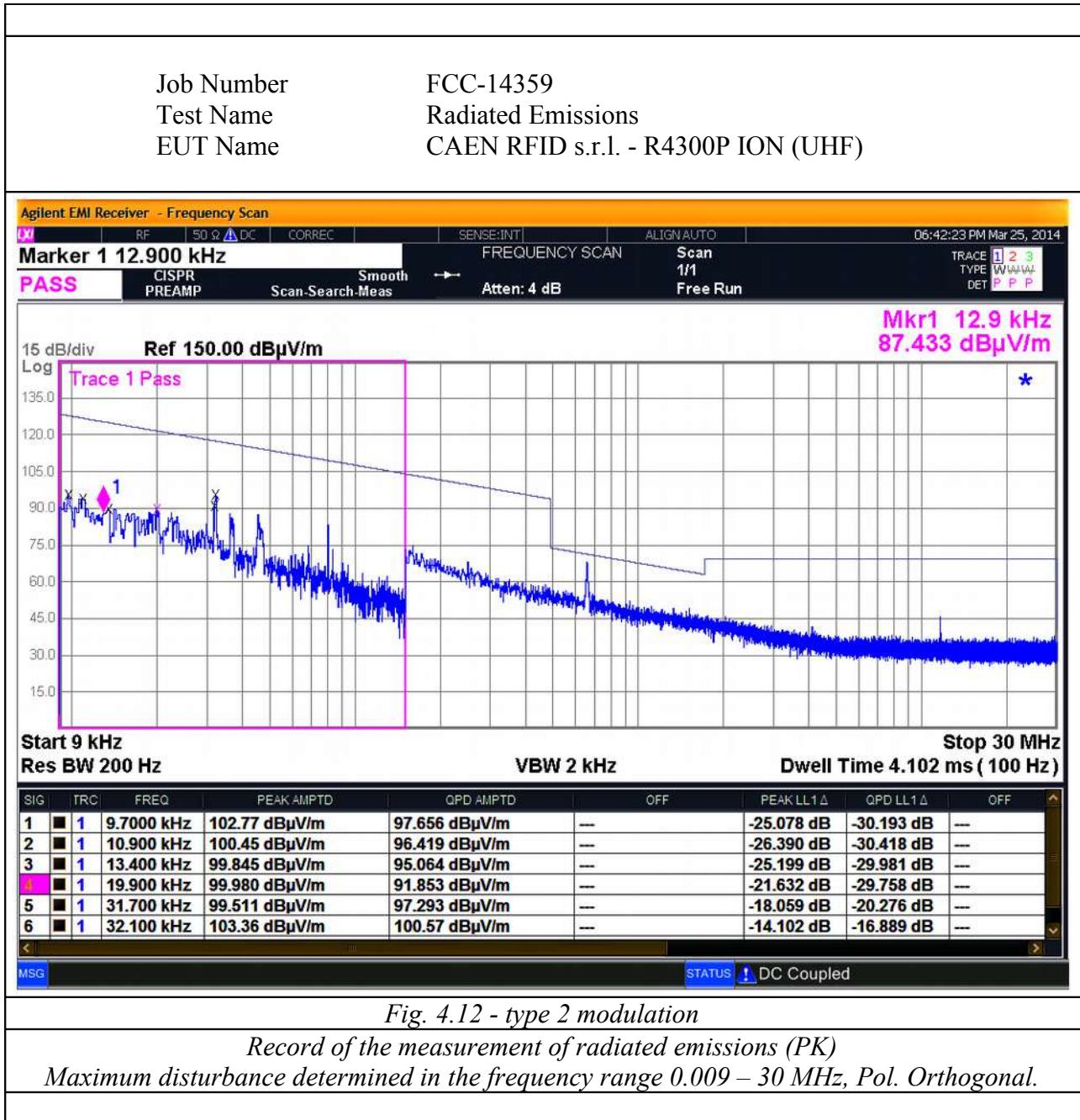
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**5. POWER LINES CONDUCTED EMISSIONS**

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

FCC 15.207

<b>FREQUENCY RANGE (MHz)</b>	<b>QUASI-PEAK LIMIT [dB (<math>\mu</math>V)]</b>	<b>AVERAGE LIMIT [dB (<math>\mu</math>V)]</b>
0.15 ÷ 0.50	66 ÷ 56 <sup>(*)</sup>	56 ÷ 46 <sup>(*)</sup>
0.50 ÷ 5	56	46
5 ÷ 30	60	50

<sup>(\*)</sup> Limit decreasing linearly with logarithm of frequency

Test Equipment

<b>EQUIPMENT</b>	<b>MANUFACTURER</b>	<b>MODEL</b>	<b>CAL. DUE</b>
MXE EMI Receiver	Agilent	N9038A	01/2015
Screened Room	GSD	CSC01	01/2015
LISN	GSD	GSDA01	01/2015
LISN	COMTEST	---	01/2015

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.

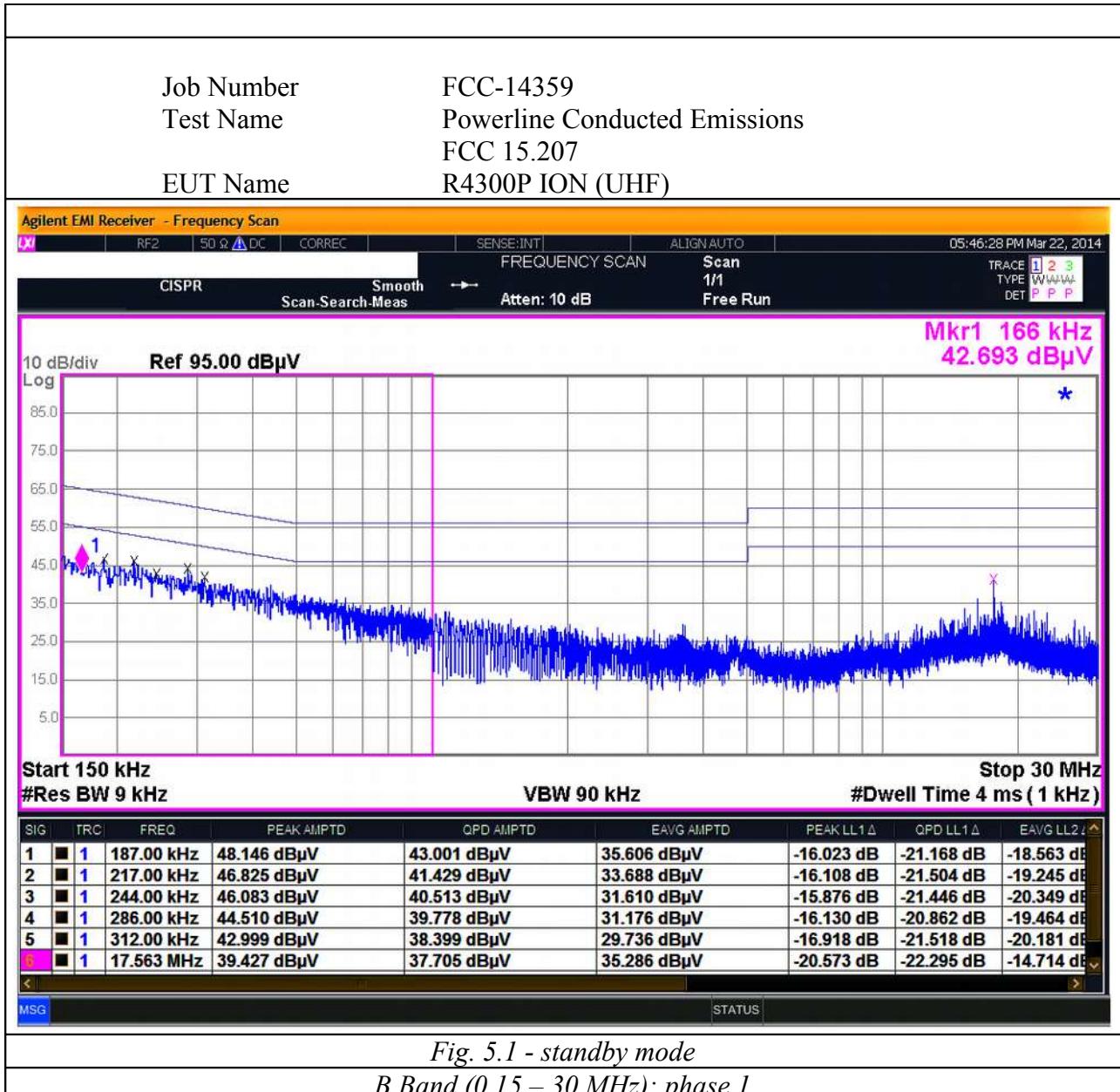
Results

Equipment complied with the test specification limits.

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

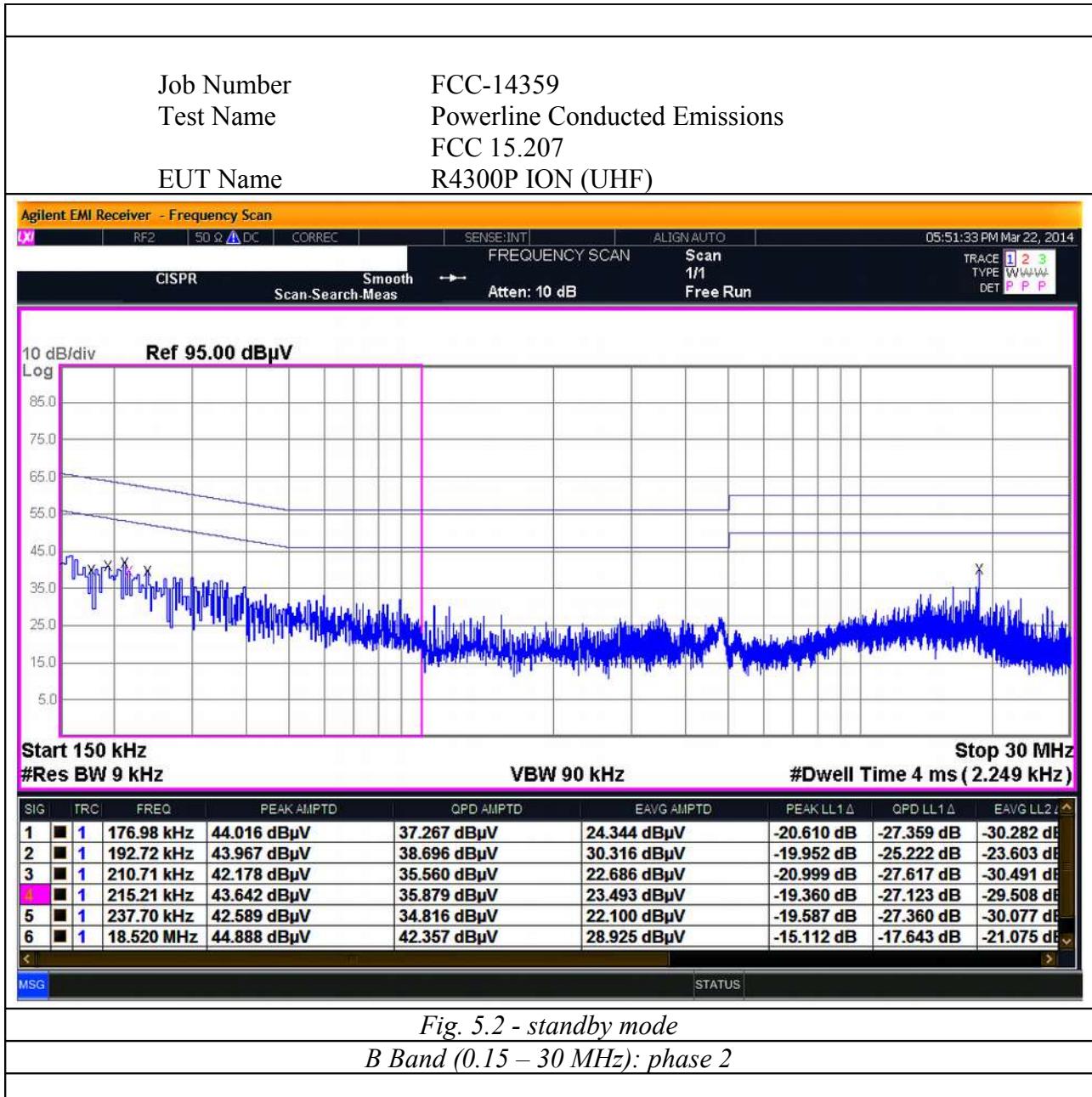
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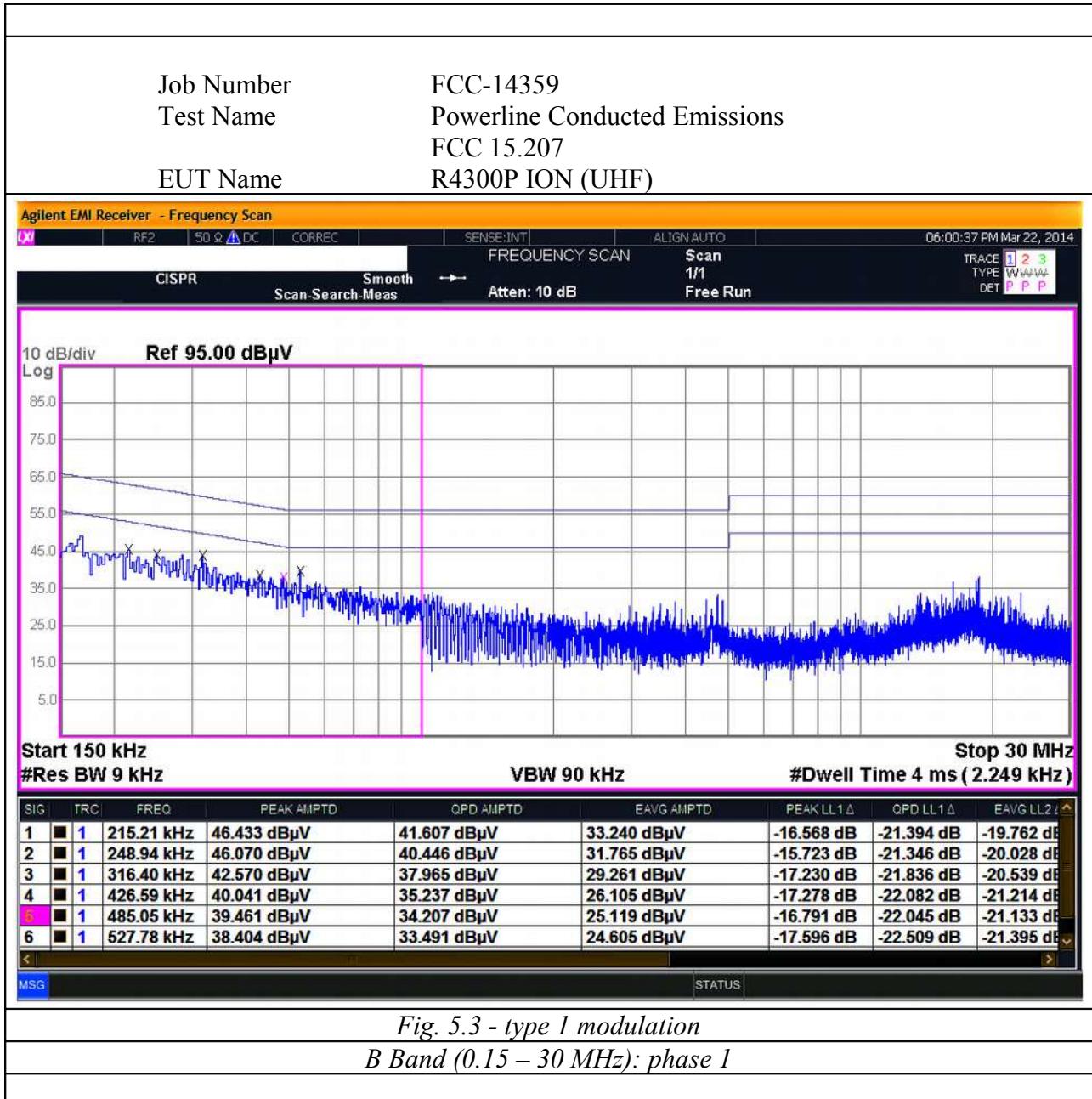


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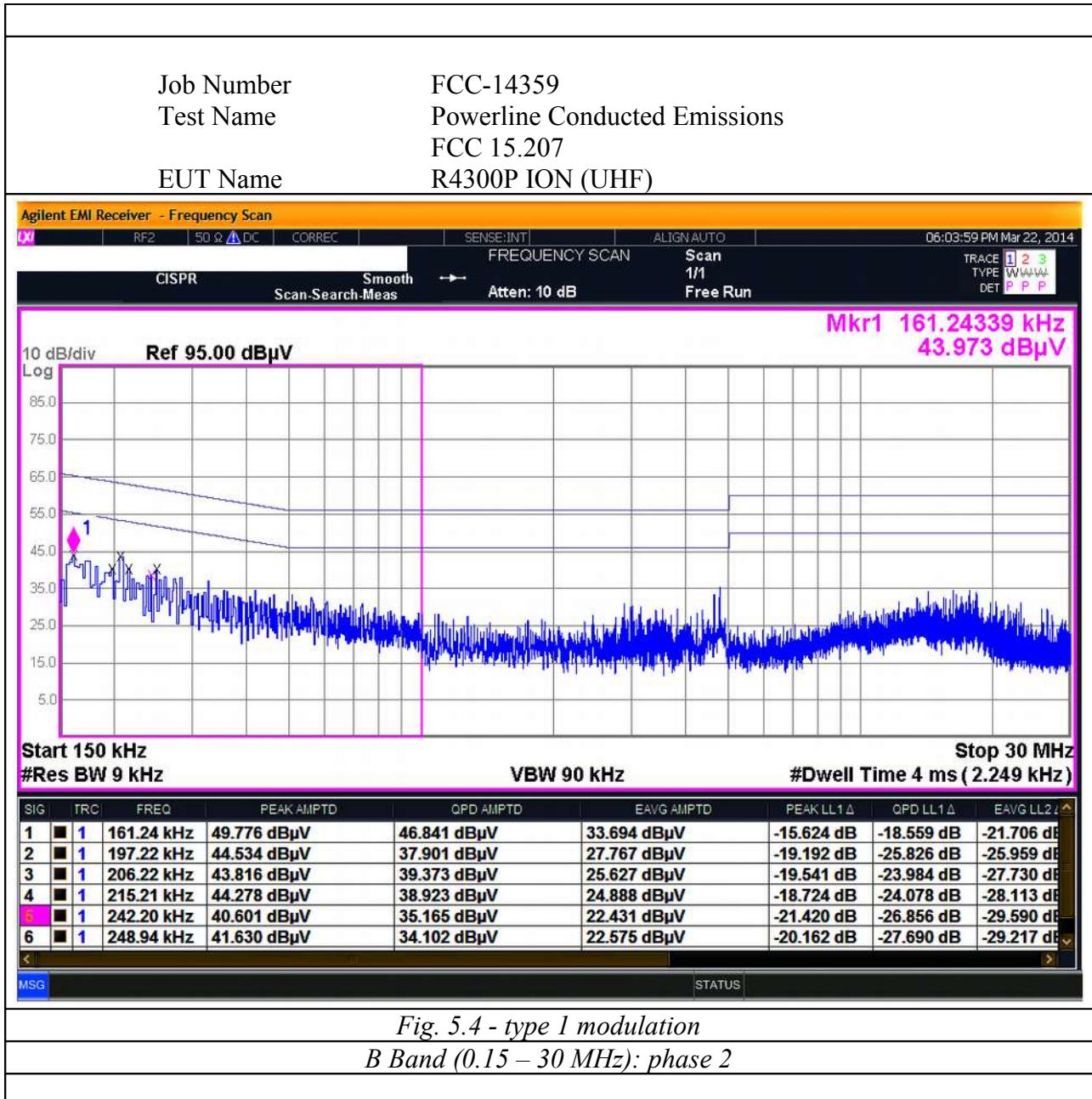


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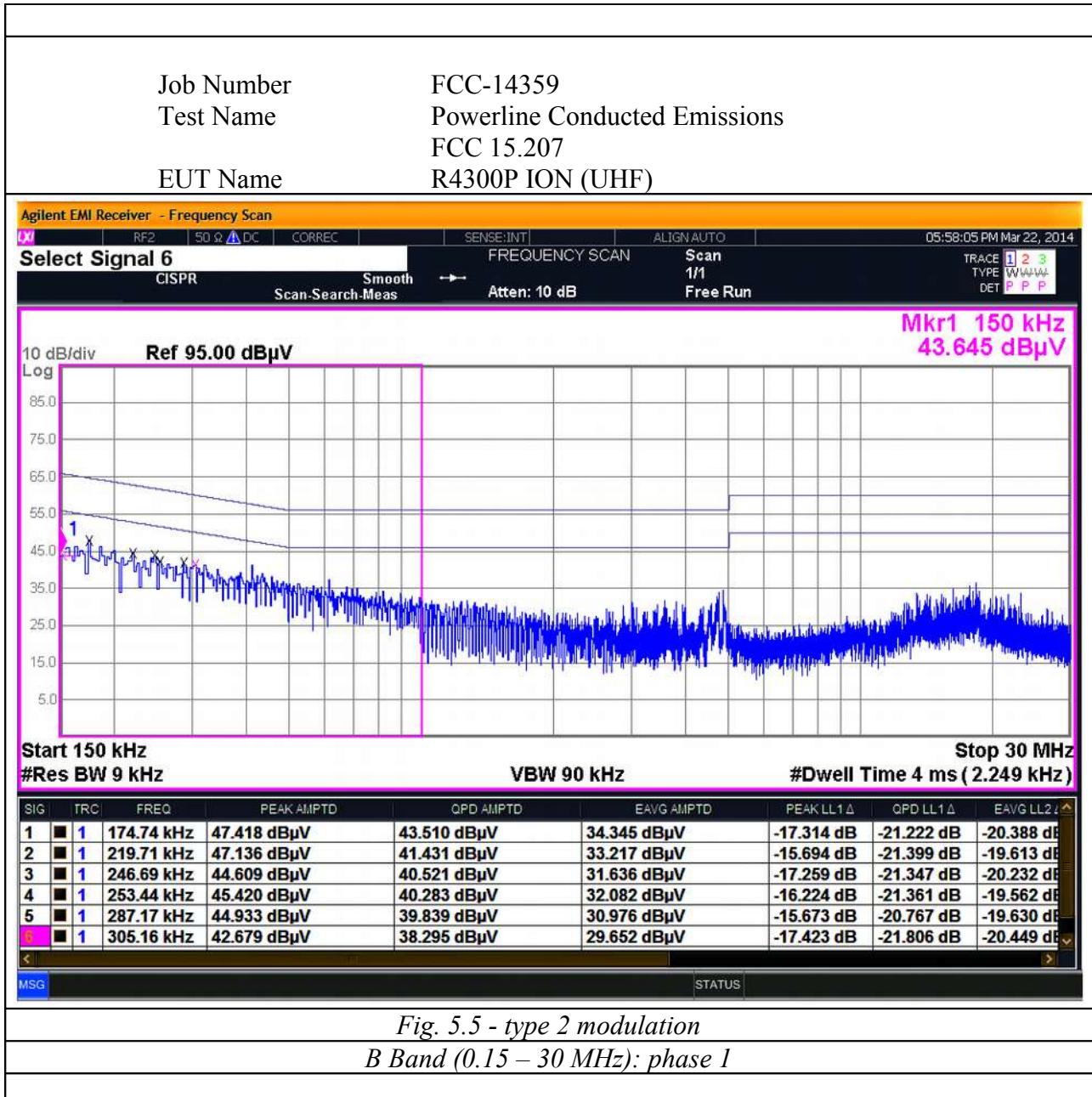
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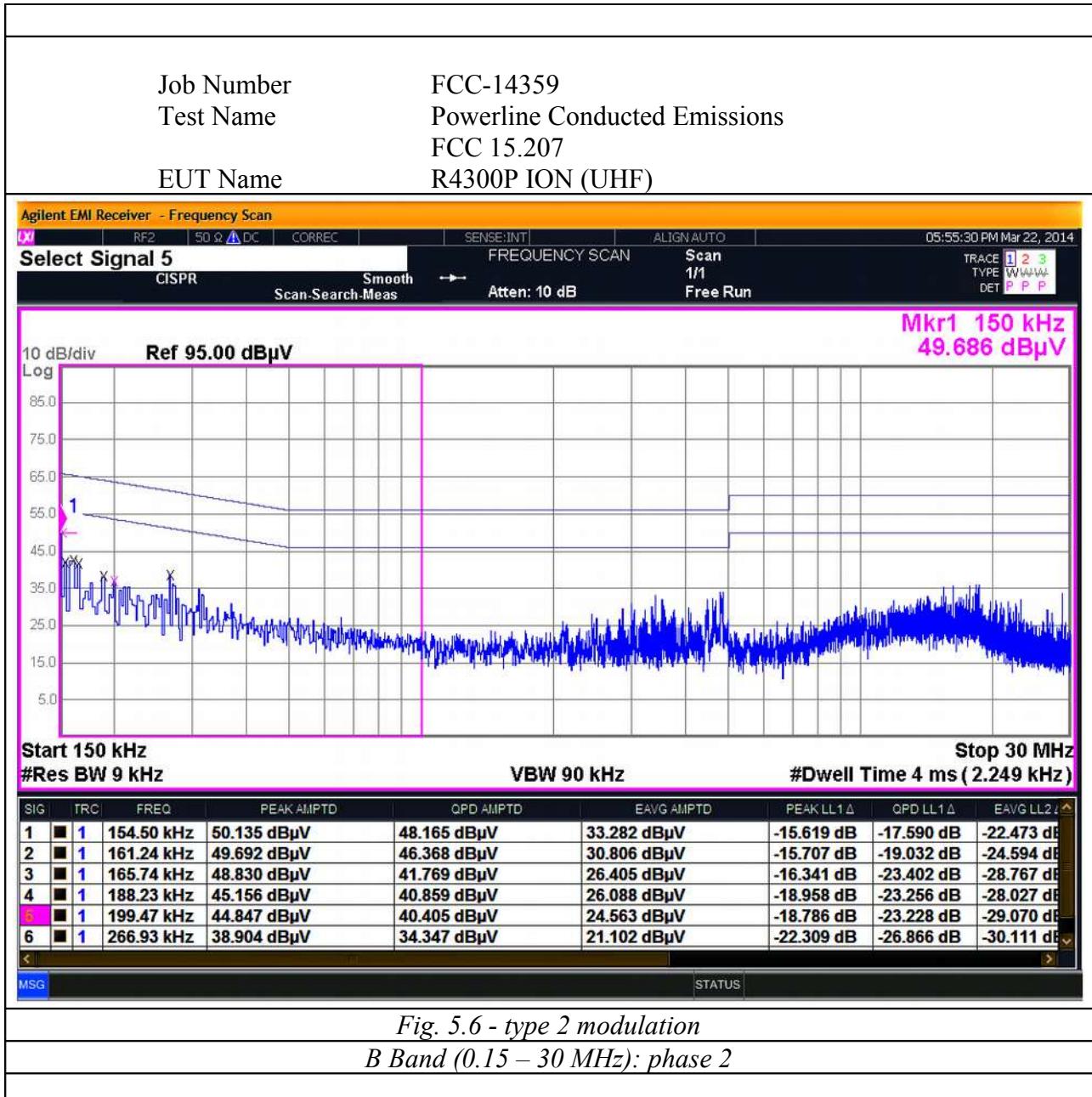
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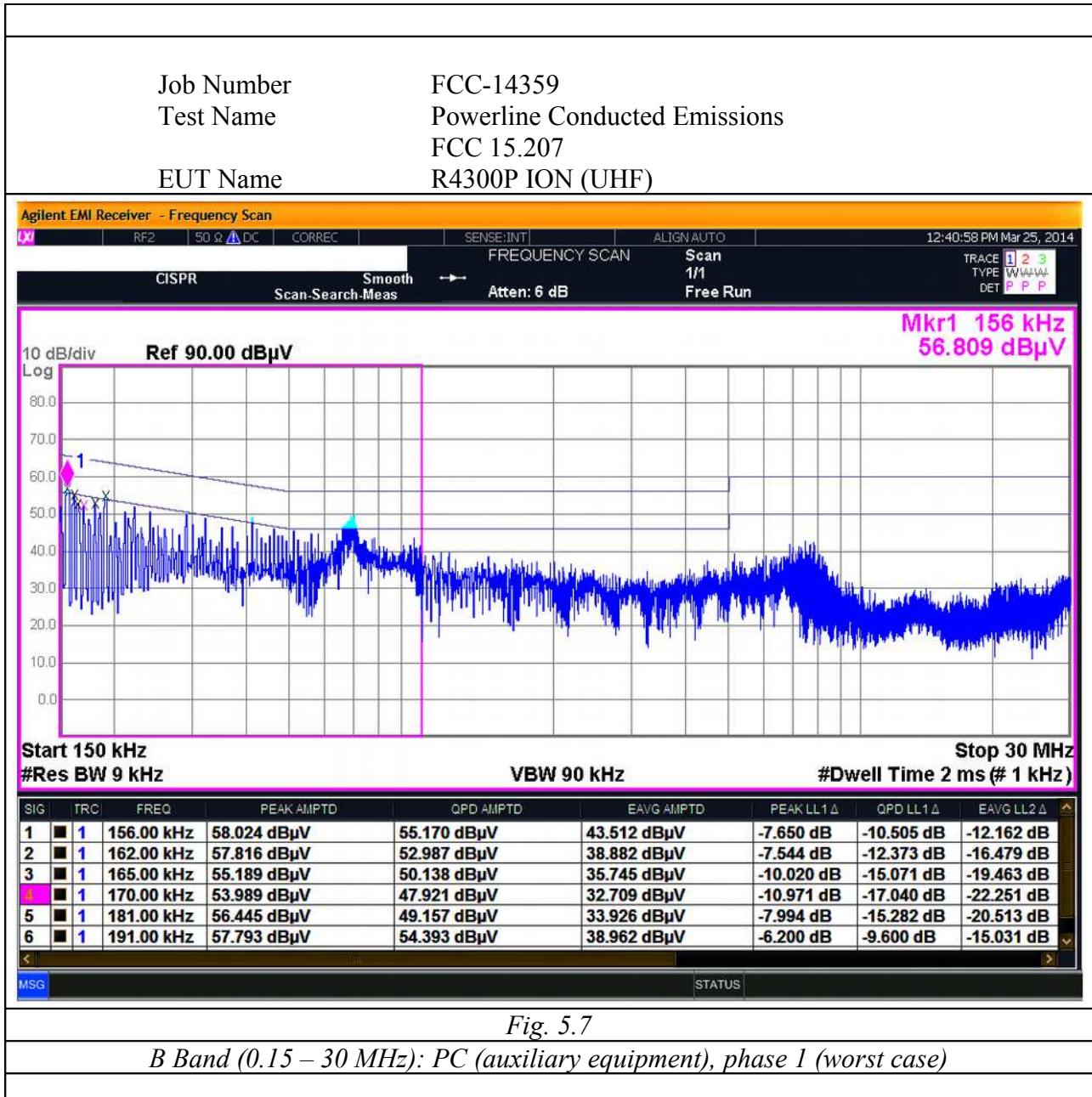
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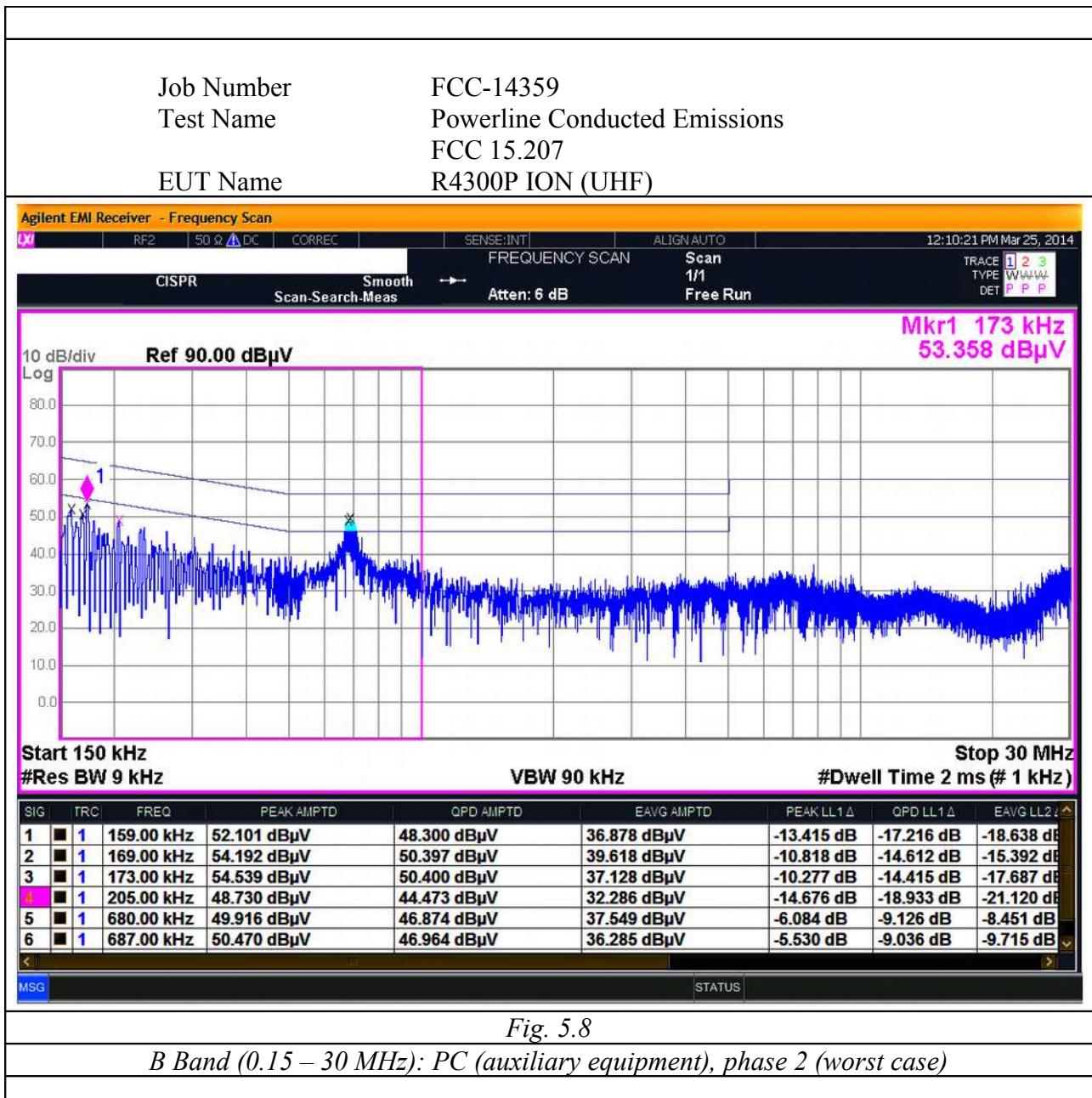
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**6. OPERATION WITHIN THE BAND 902 - 928 MHz: PEAK OUTPUT POWER – SPURIOUS RF EMISSION – BAND EDGE**

*Peak Output Power*

Equipment shall meet the limits below.

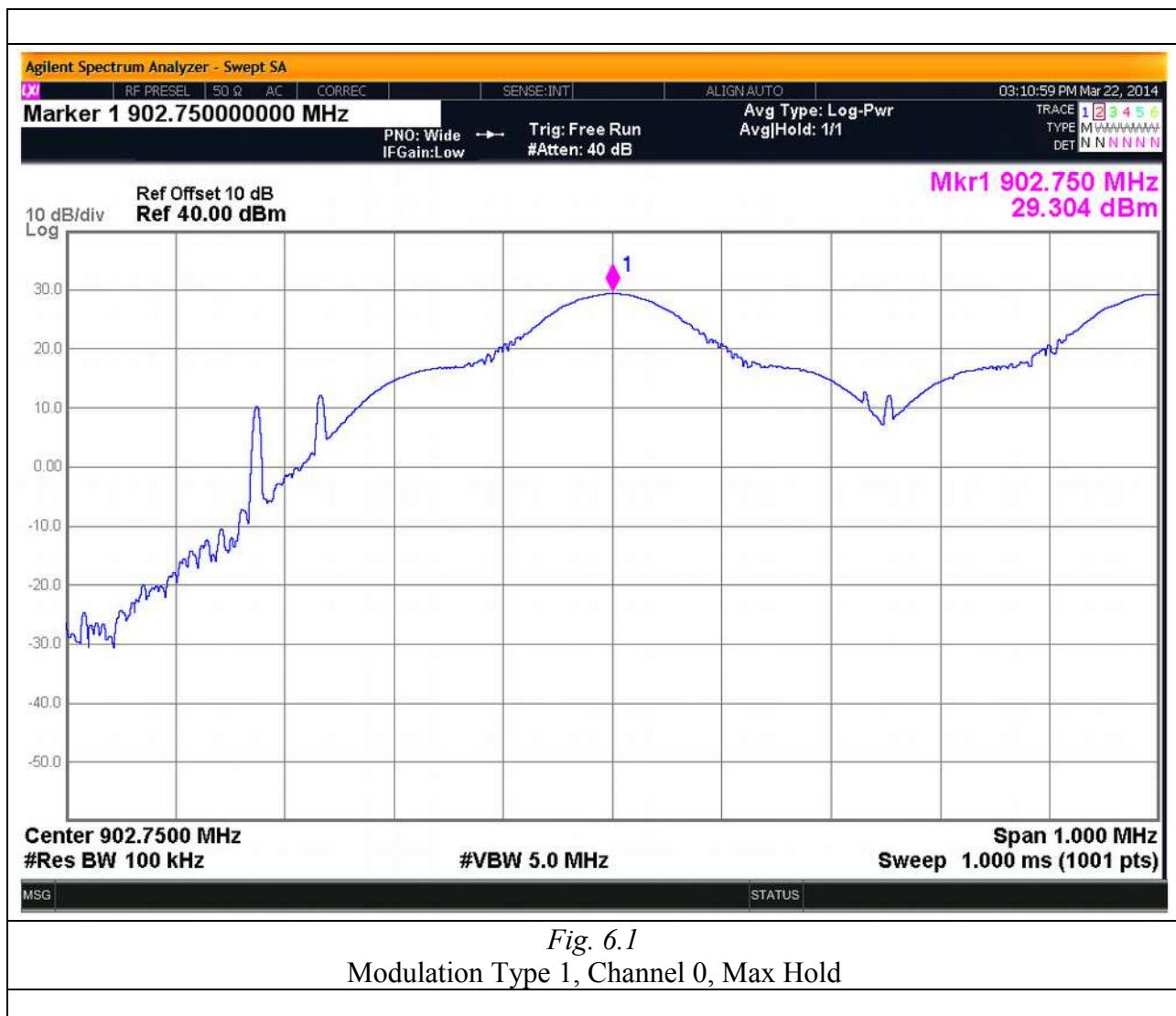
<b>FREQUENCY RANGE (MHz)</b>	<b>RF power output Limit dBm</b>
902 - 928	30,0

The measured values are:

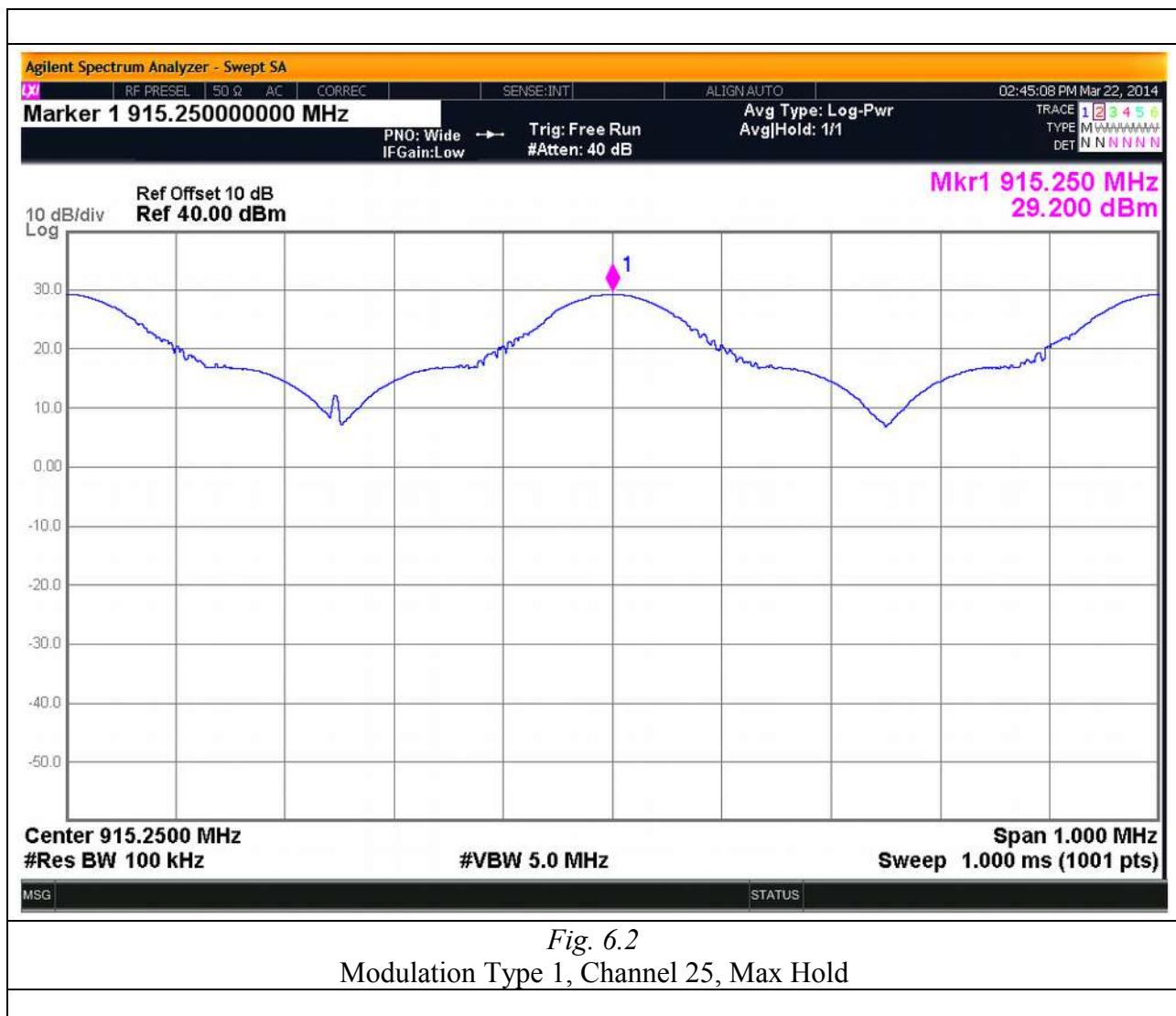
Channel	Output Power	
	Modulation type 1	Modulation type 2
0	29.3	29.3
25	29.2	29.3
49	29.3	29.3

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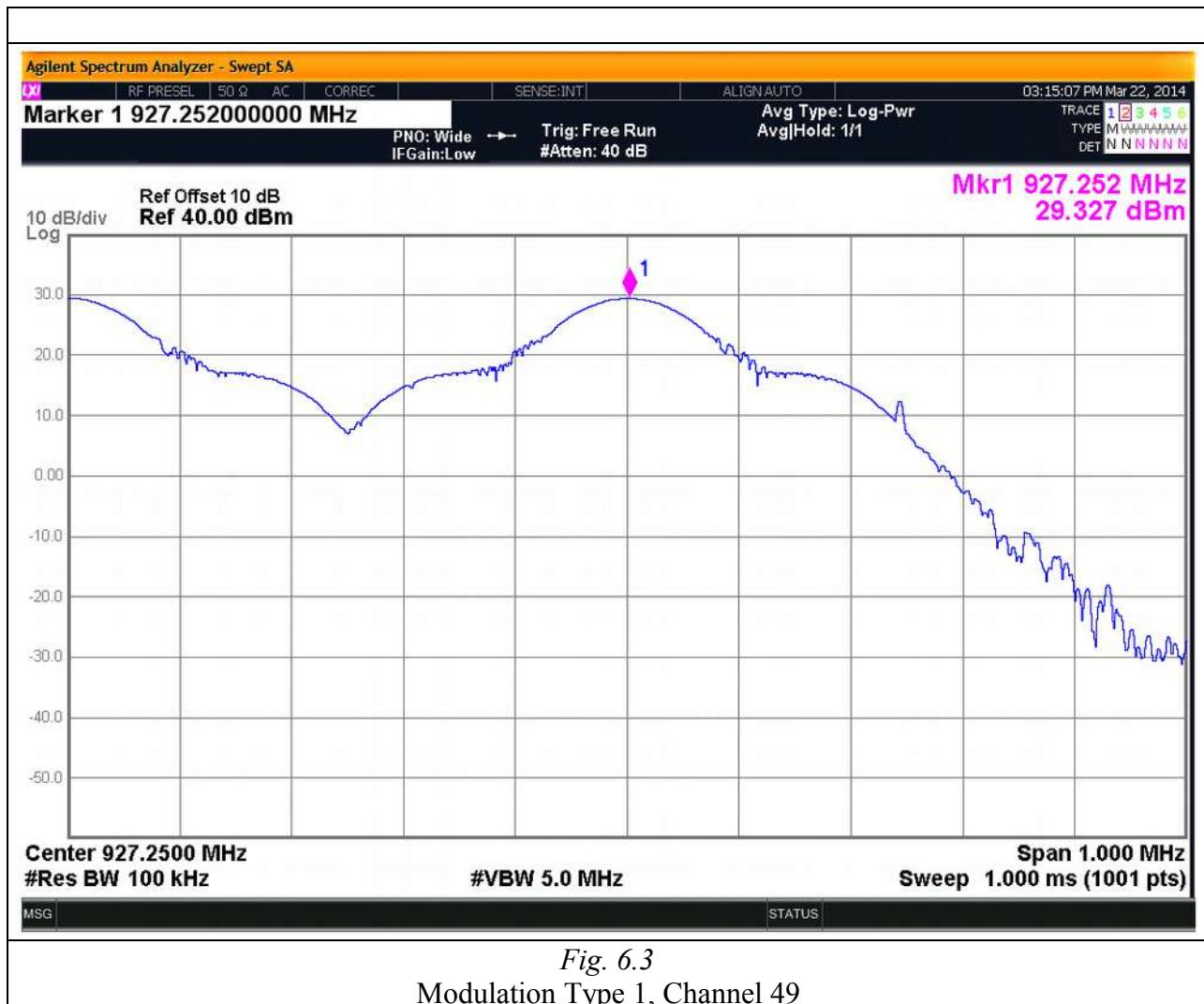
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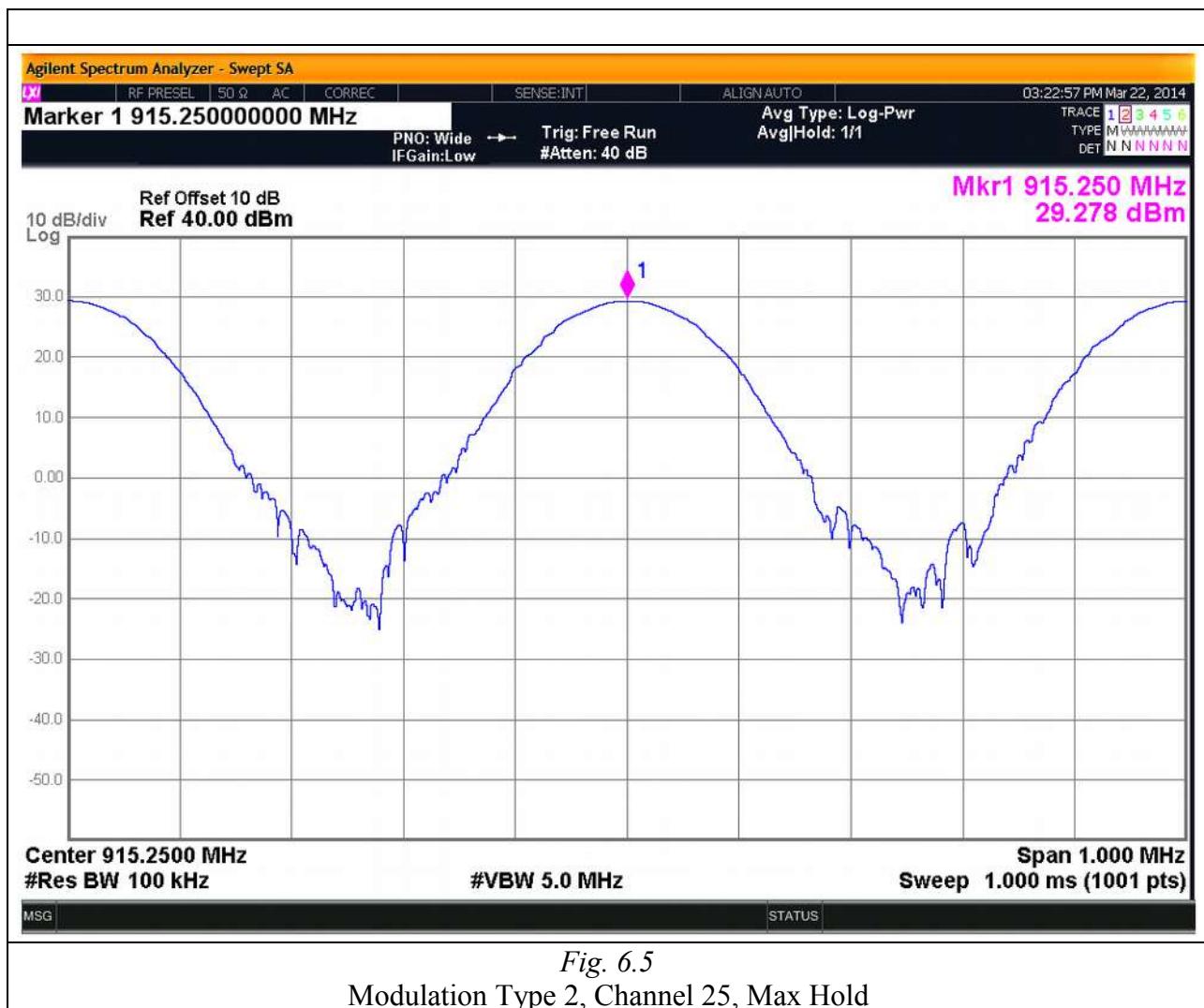


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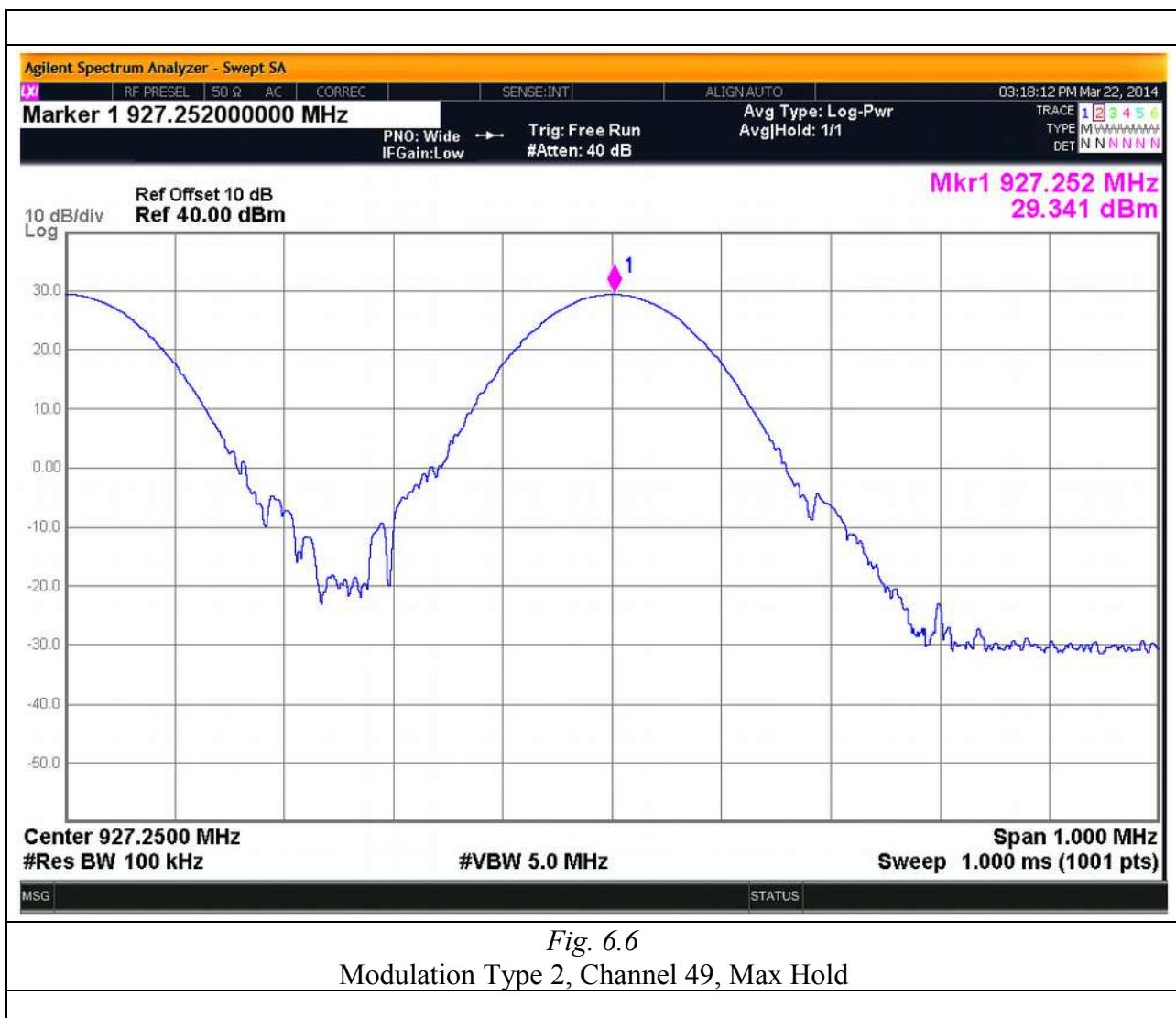
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Spurious Emissions										
Nr Harmonics	AV Level (dB $\mu$ V/m)						AV Limits (dB $\mu$ V/m)	Remark		
	Ch 0		Ch 25		Ch 49					
	F (MHz)	(dB $\mu$ V/m)	F (MHz)	(dB $\mu$ V/m)	F (MHz)	(dB $\mu$ V/m)				
2	1805.5	--	1830.5	--	1854.5	--	54.0			
3		--		--		--	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 (--).
---

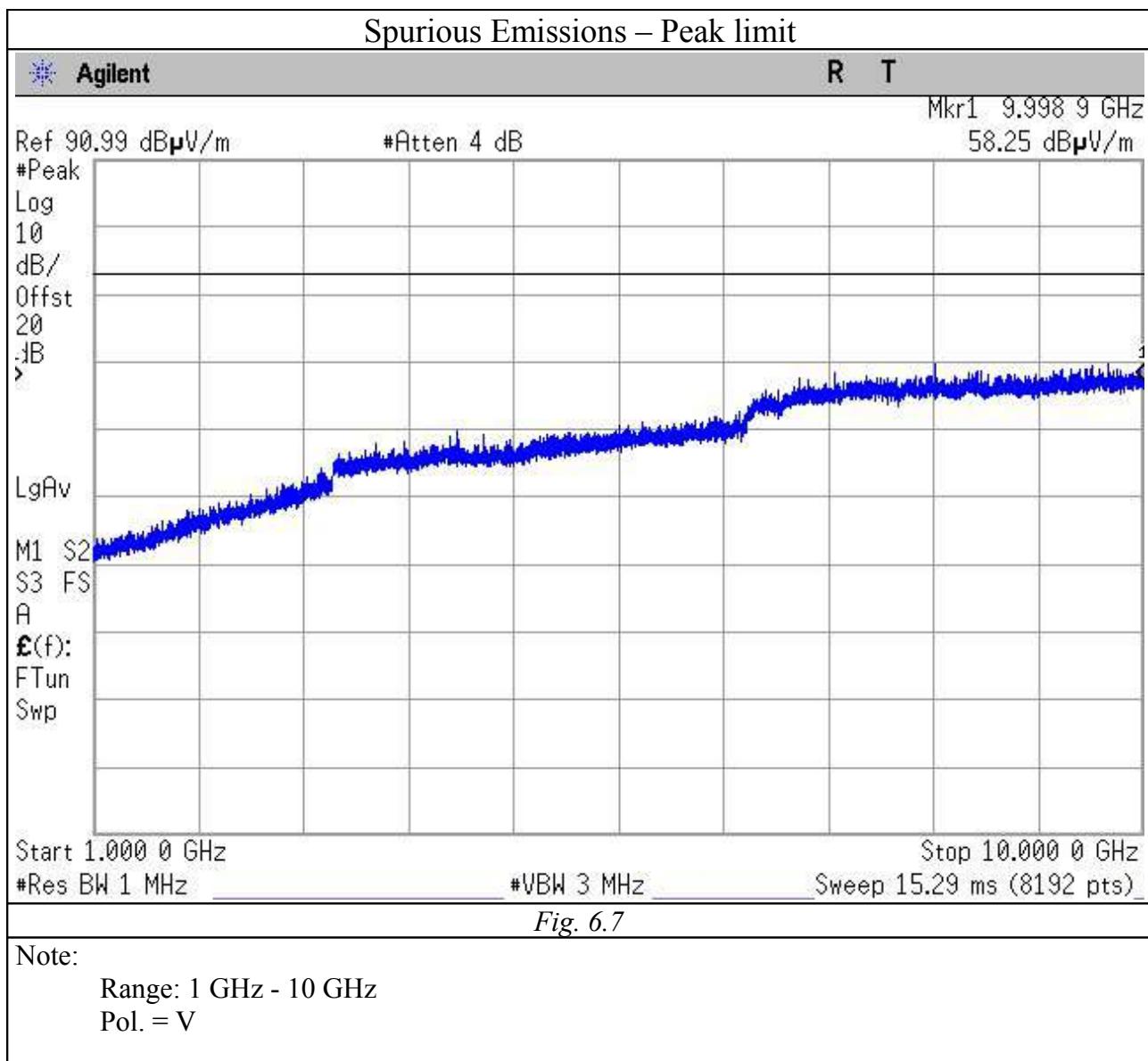
Peak Level (dB $\mu$ V/m)									AV Limits (dB $\mu$ V/m)	Remark		
Nr Harmonics	Ch 0		Ch 25		Ch 49							
	F (MHz)	(dB $\mu$ V/m)	F (MHz)	(dB $\mu$ V/m)	F (MHz)	(dB $\mu$ V/m)						
2	1805.5	--	1830.5	--	1854.5	--	74.0					
3		--		--		--	74.0					
4		--		--		--	74.0					
5		--		--		--	74.0					
6		--		--		--	74.0					
7		--		--		--	74.0					
8		--		--		--	74.0					
9		--		--		--	74.0					
10		--		--		--	74.0					

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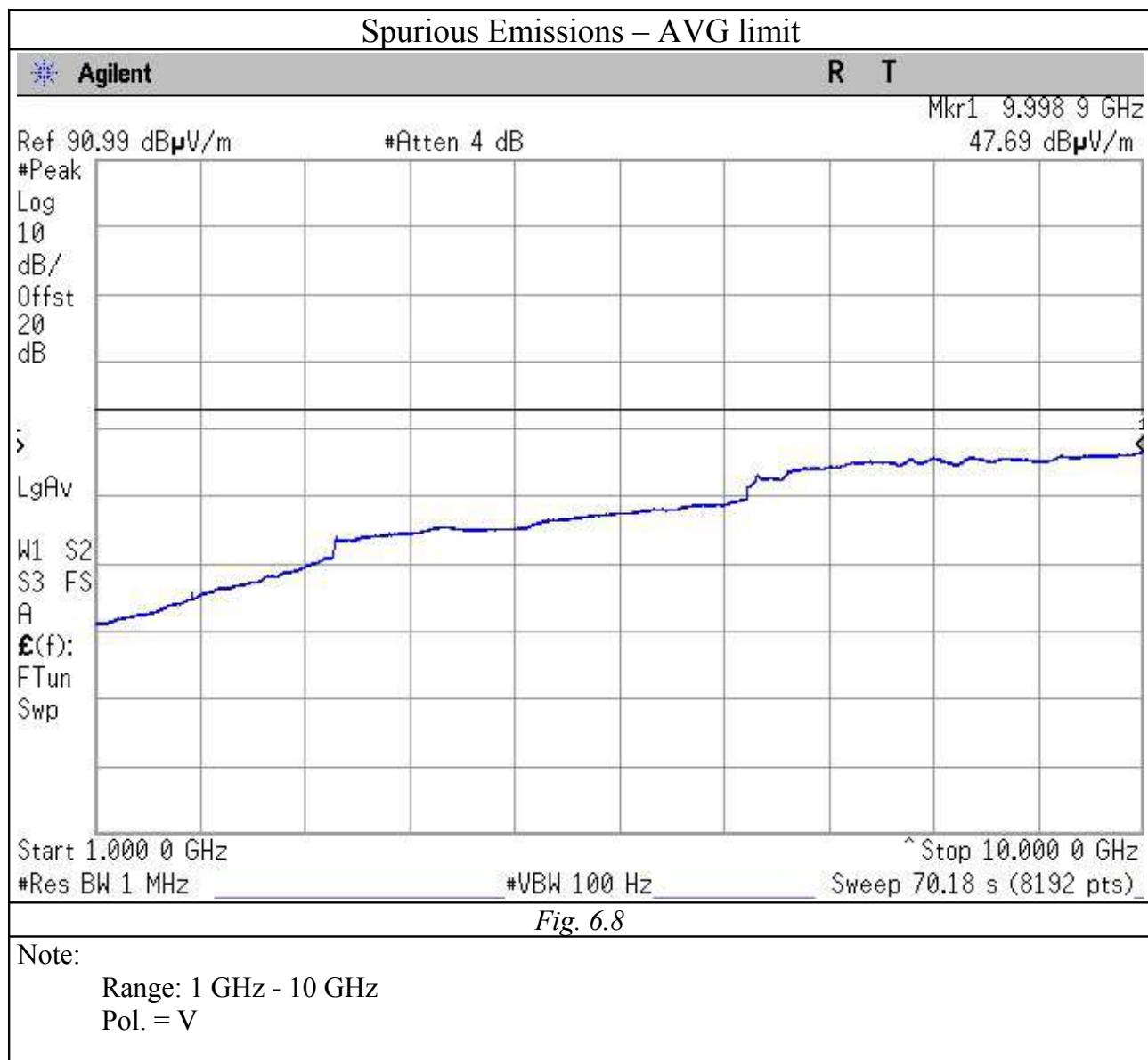
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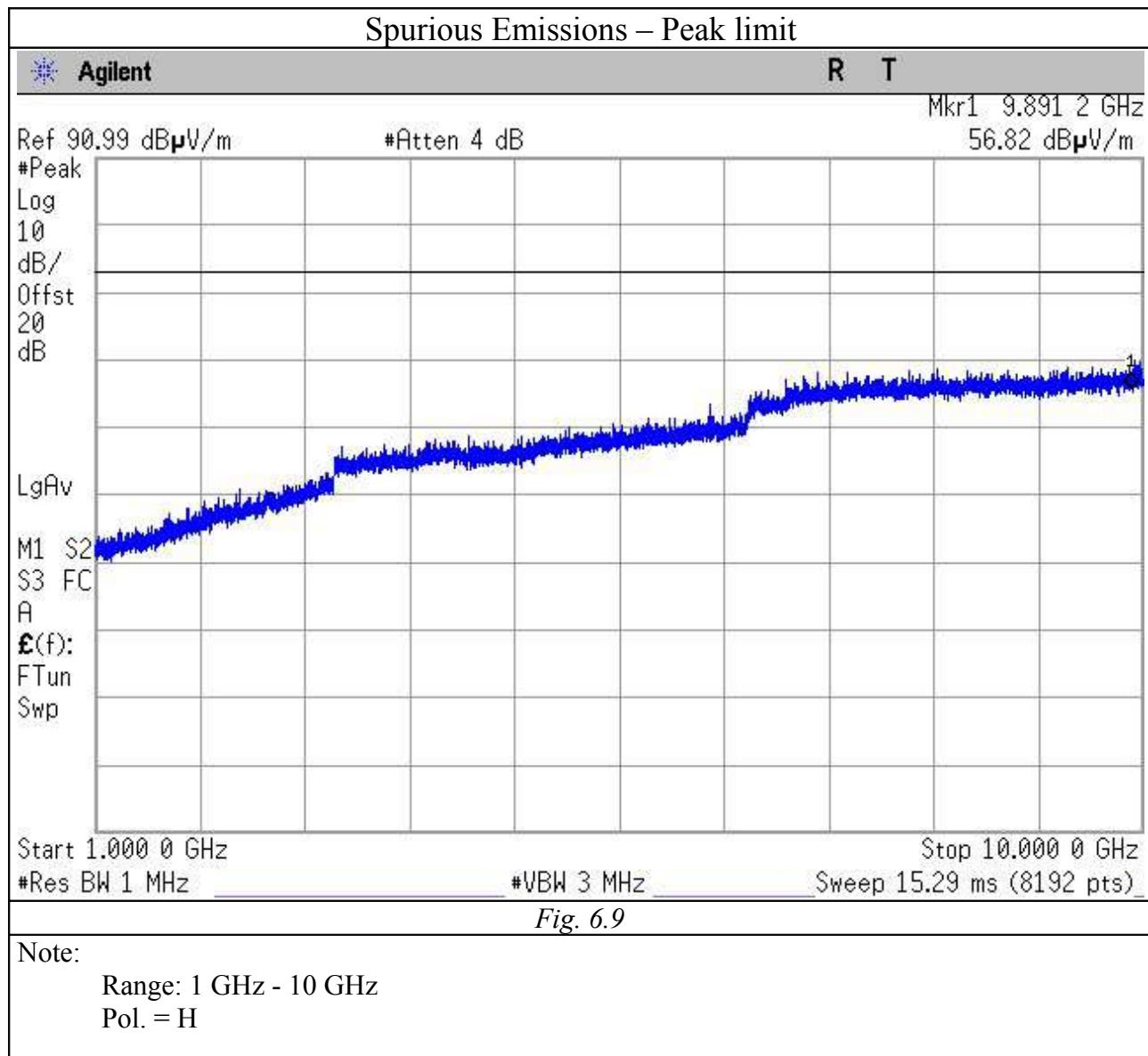
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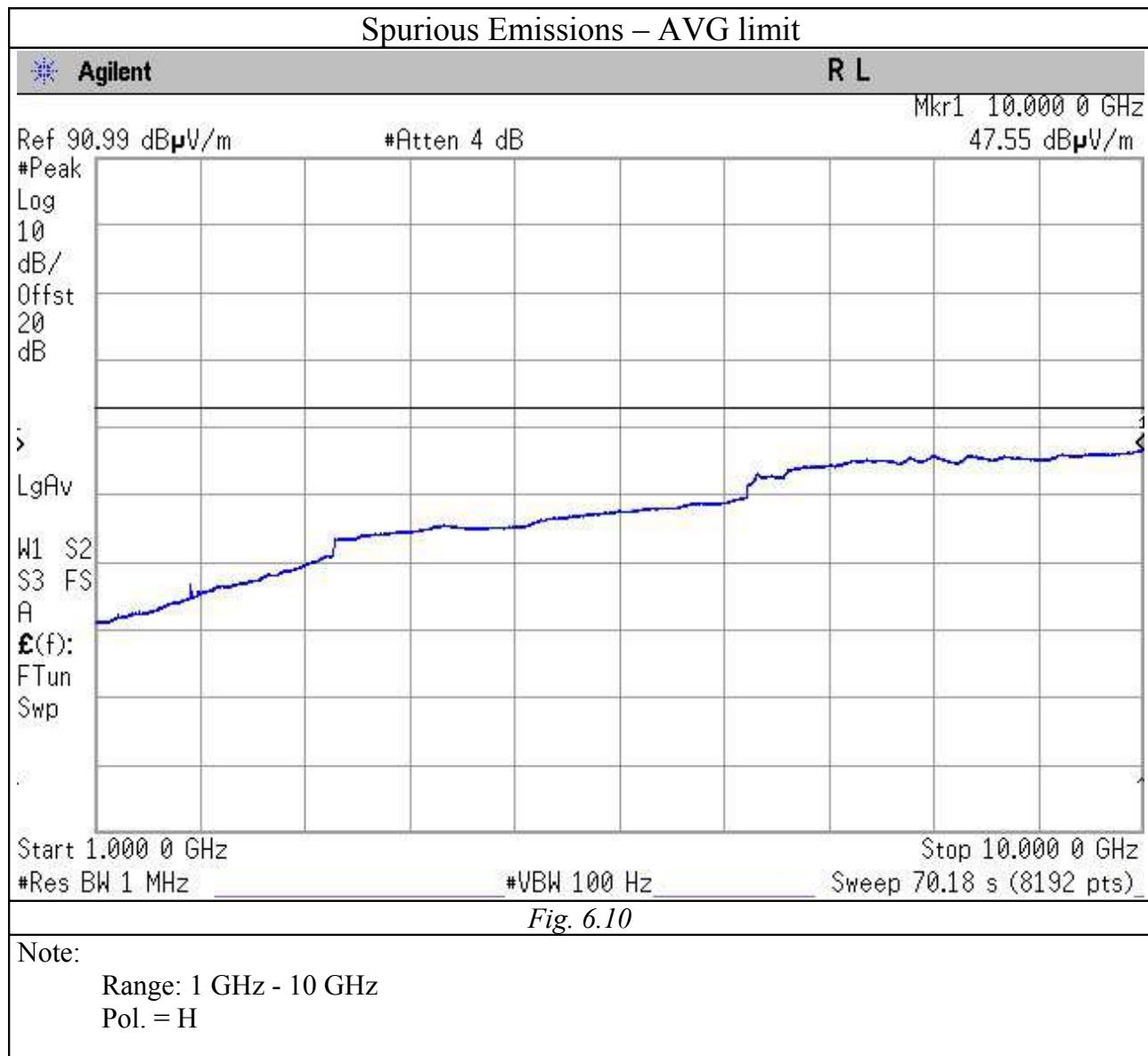
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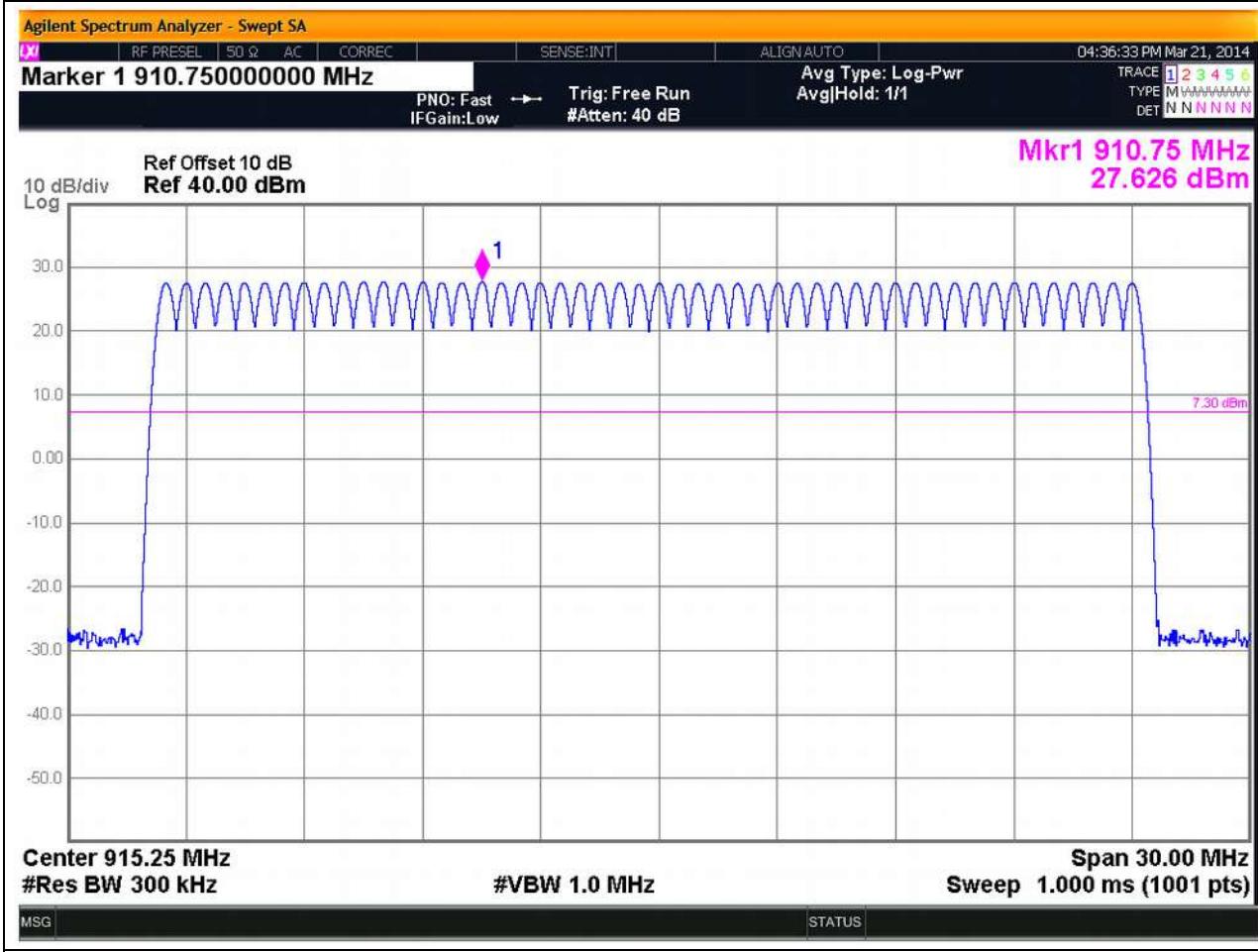
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*Band Edge*

Emissions must be within the band 902-928 MHz.

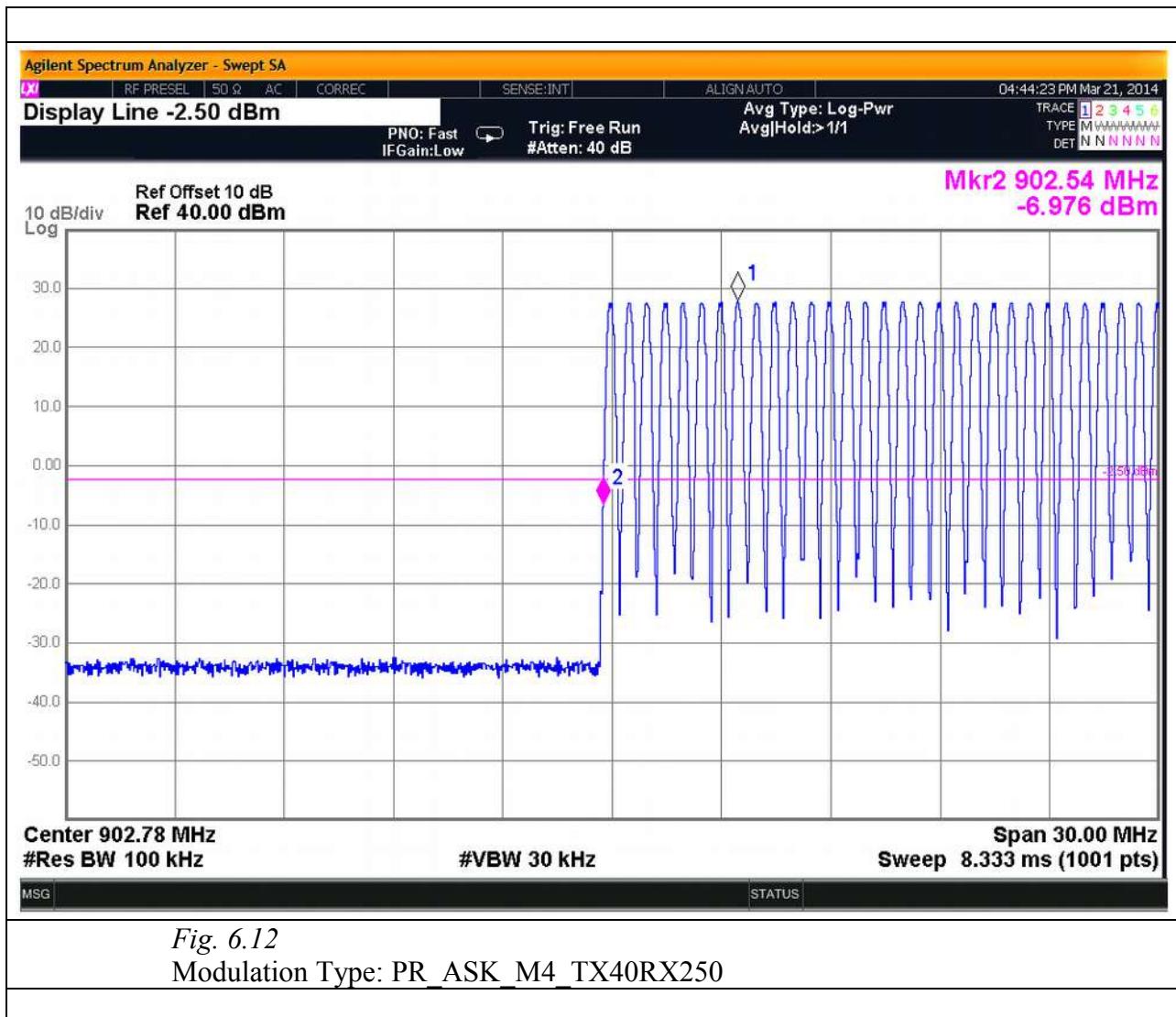
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.



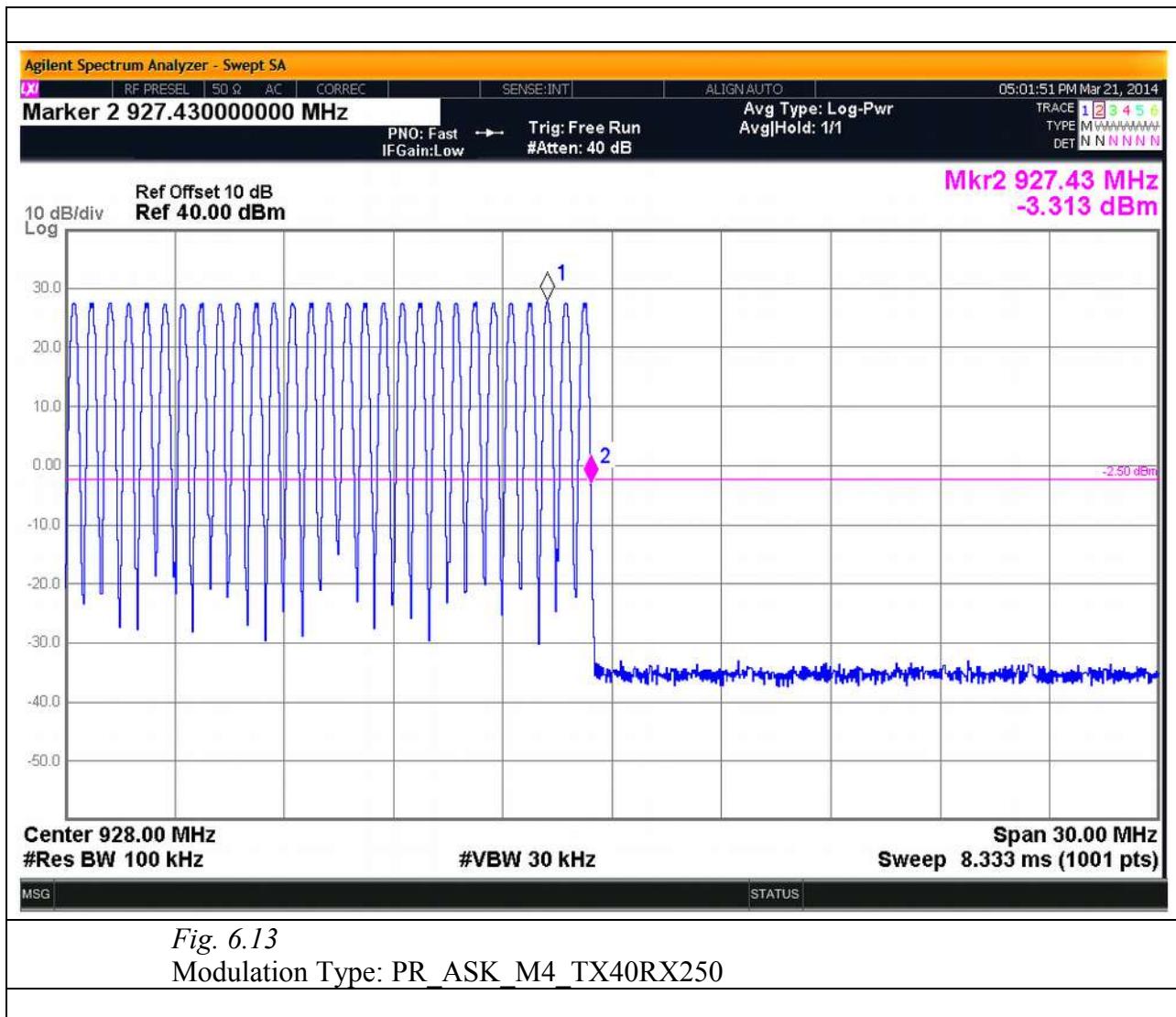
*Fig. 6.11*  
Modulation Type: PR\_ASK\_M4\_TX40RX250

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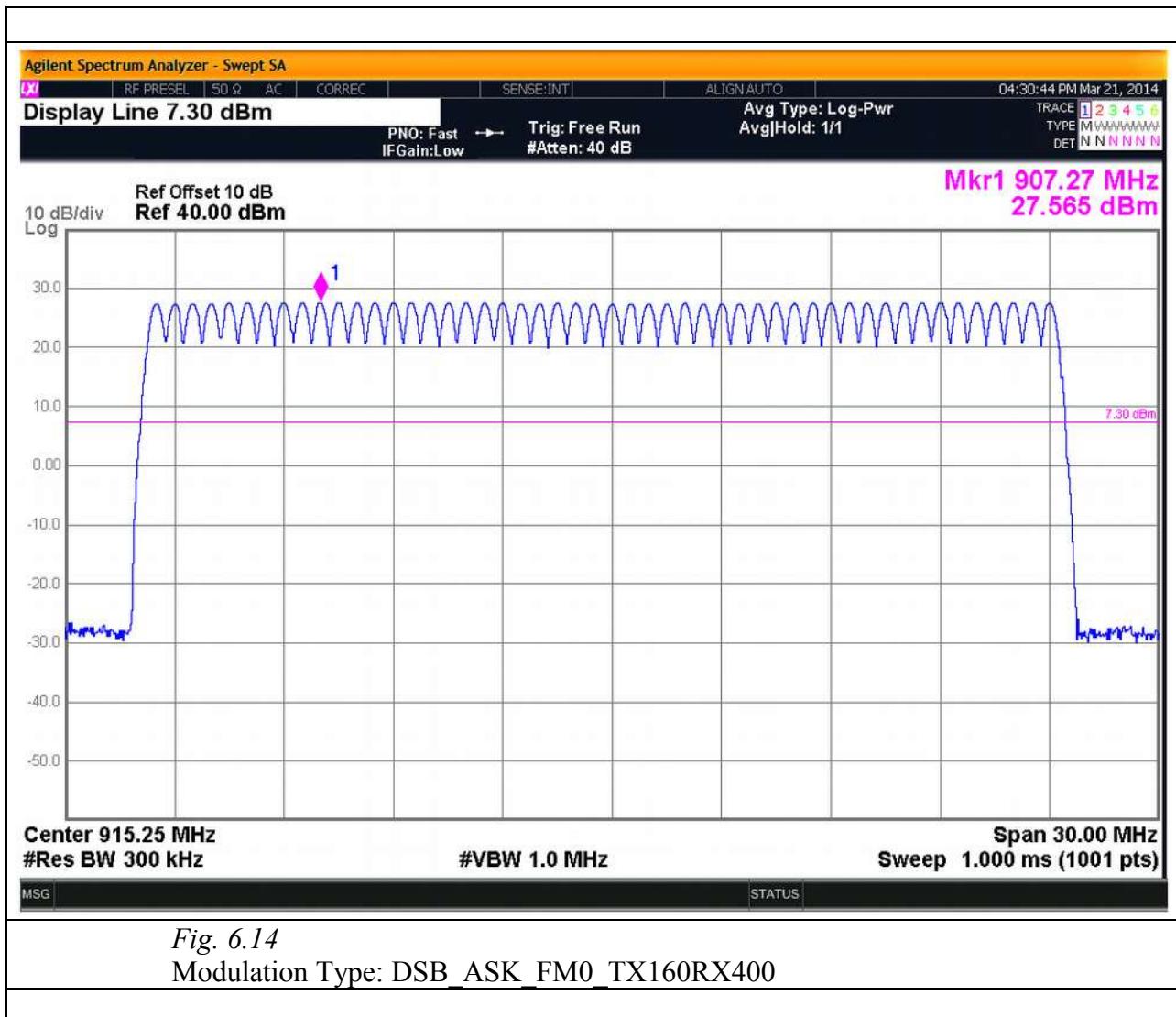


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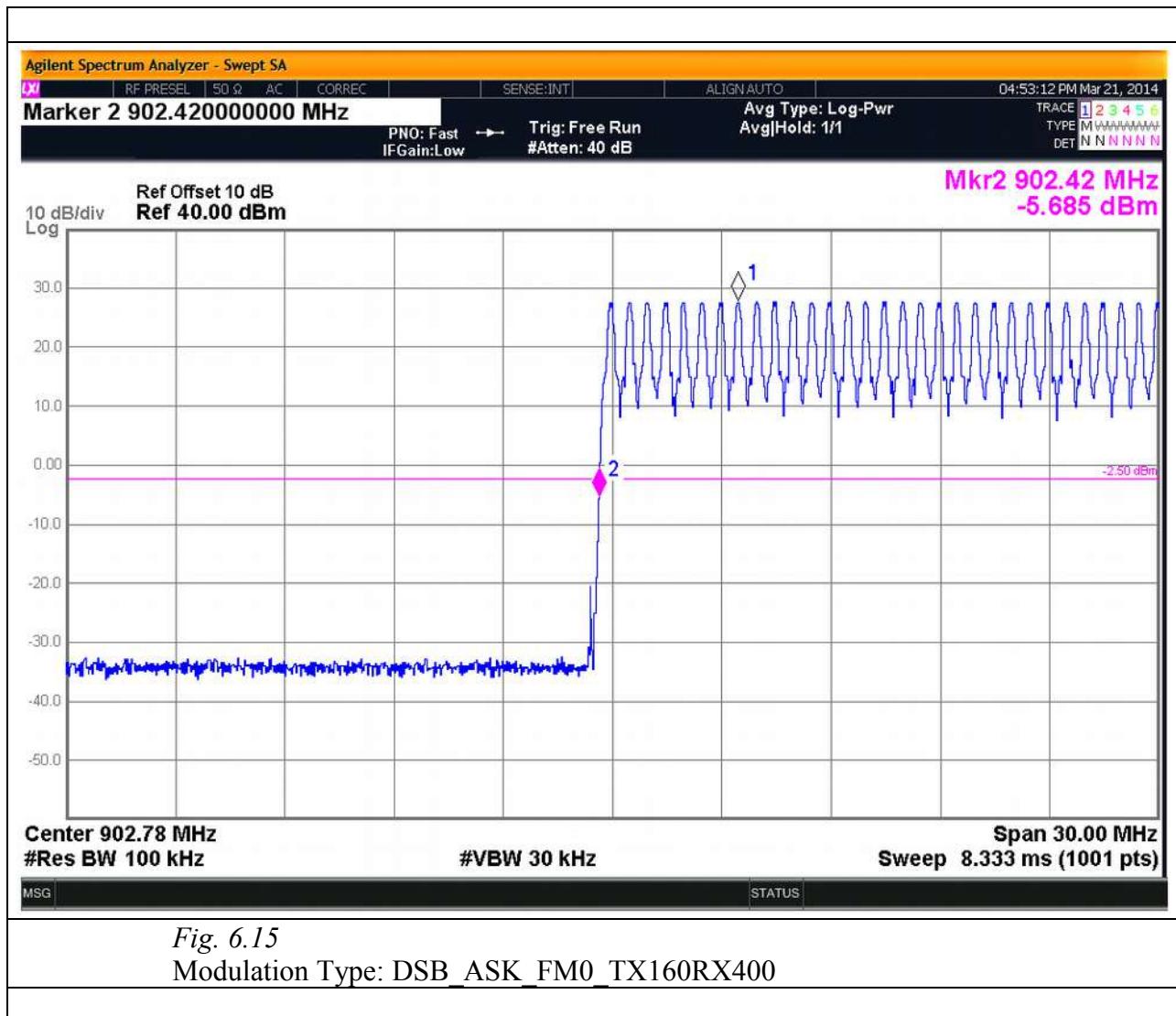


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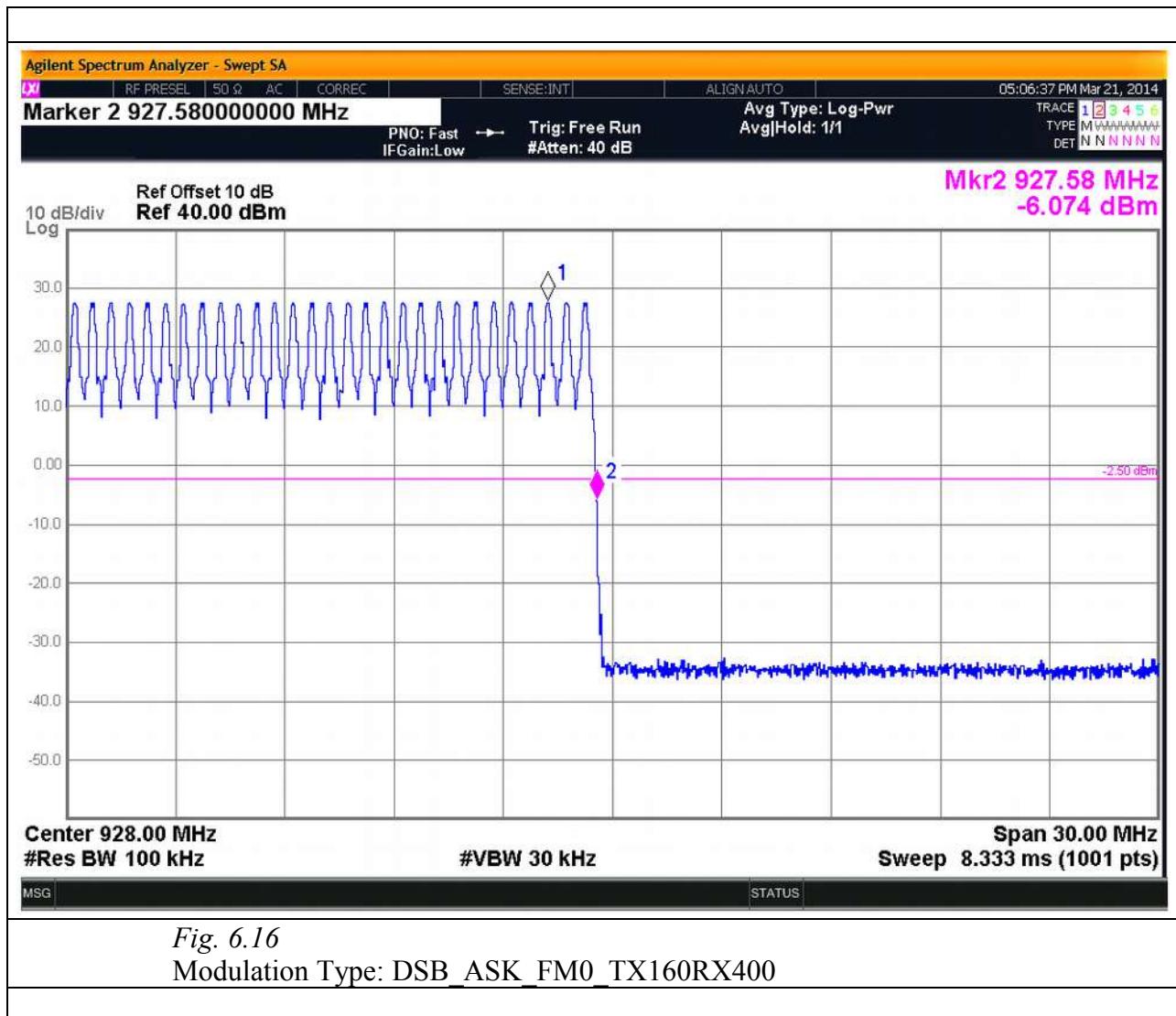


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<u>Test Equipment</u>			
EQUIPMENT	MANUFACTURER	MODEL	CAL. DUE
MXE EMI Receiver	Agilent	N9038A	01/2015
Anechoic Chamber	Comtest	CSA01	01/2015
Bilog Antenna	Schaffner	CBL6112B	01/2015
Horn Antenna	EMCO	3115	01/2015
Controller	Deisel	HD100	01/2015
Turn Table	Deisel	MA240	01/2015
Attenuator	Narda	768-10	01/2015

| Test procedure: CE22R01 |  |  |  |
|  |  |  |  |

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**7. BANDWIDTH AND AVERAGE TIME OF OCCUPANCY**

Equipment shall meet the limits below.

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 and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period.

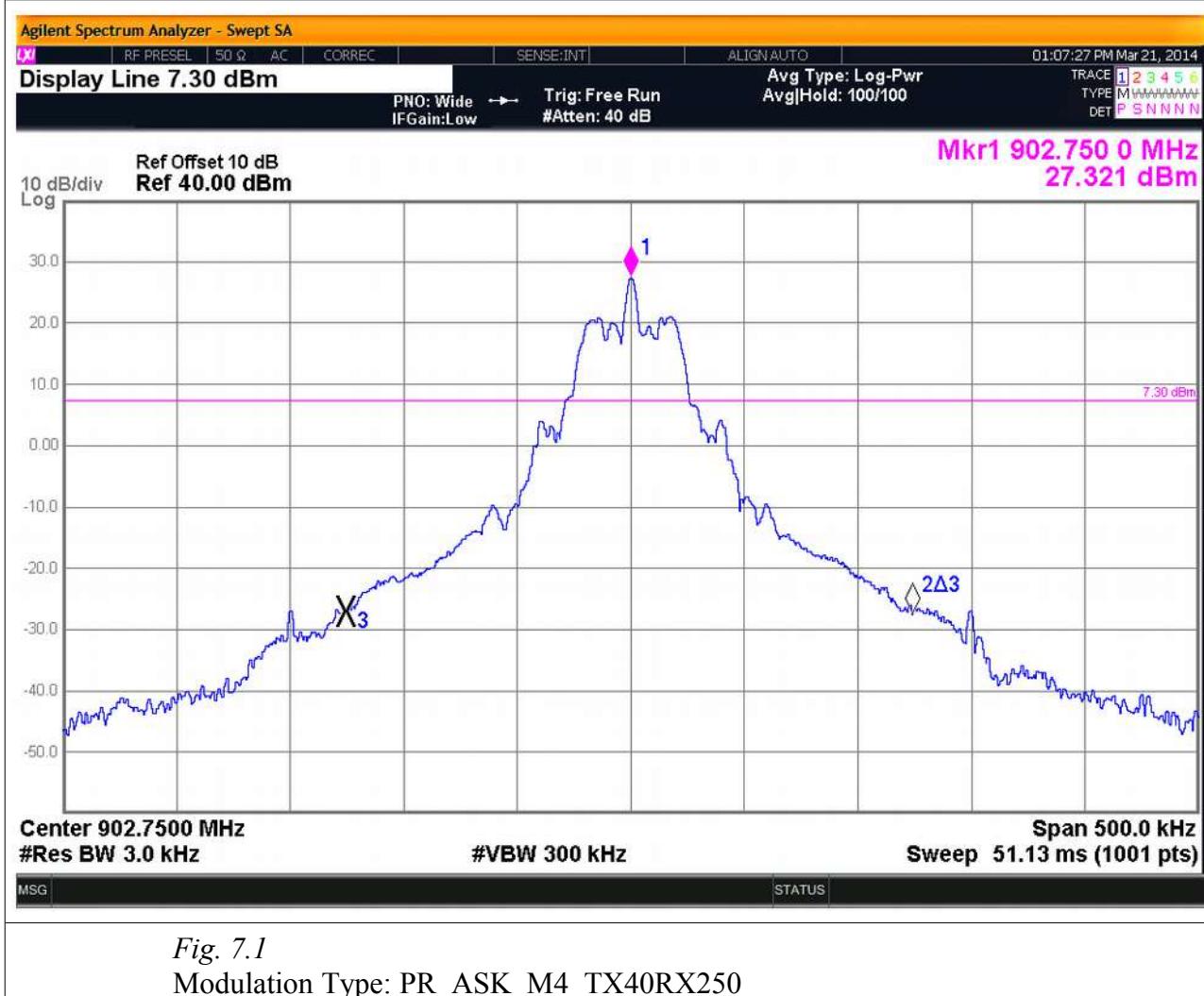
Bandwidth

Channel	Frequency	Bandwidth (Type1/Type2) [kHz]
0	902.75023 MHz	56.5/31.5
25	915.25022 MHz	55.0/30.5
49	927.25023 MHz	57.0/16.0

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Ch 0: Bandwidth

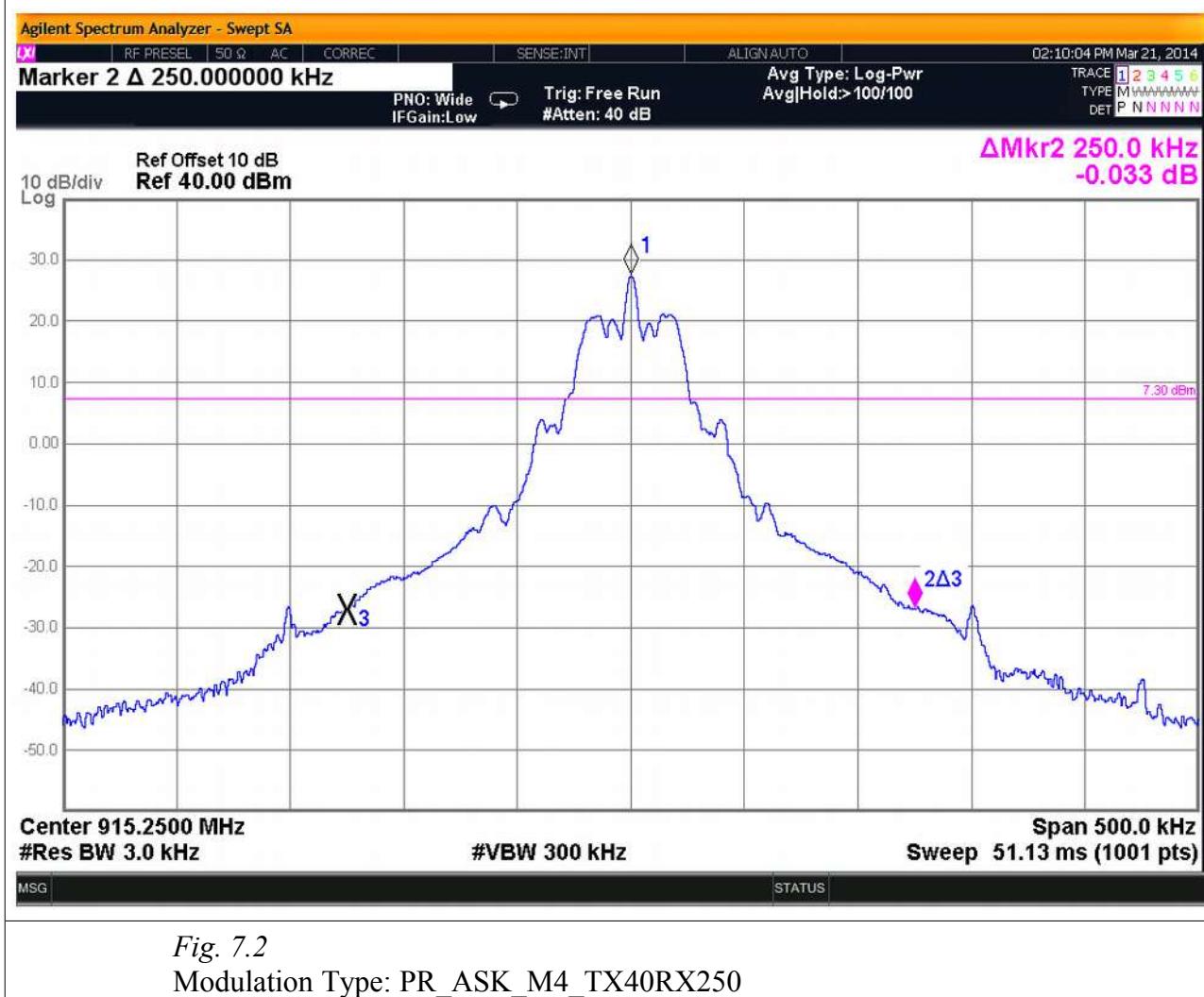


*Fig. 7.1*  
Modulation Type: PR\_ASK\_M4\_TX40RX250

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Ch 25: Bandwidth



Ch 49: Bandwidth



*Fig. 7.3*  
Modulation Type: PR\_ASK\_M4\_TX40RX250

Ch 0: Bandwidth

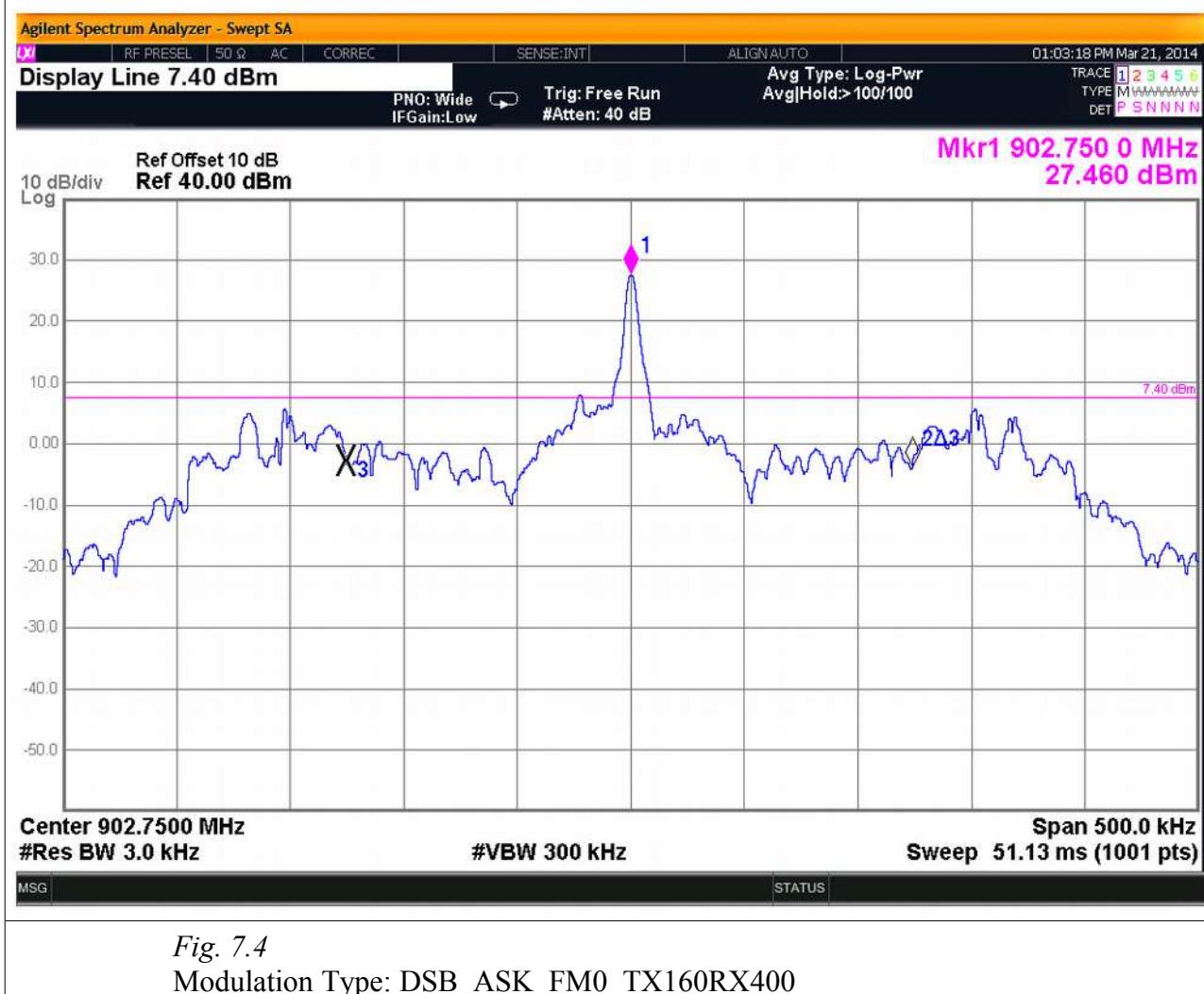
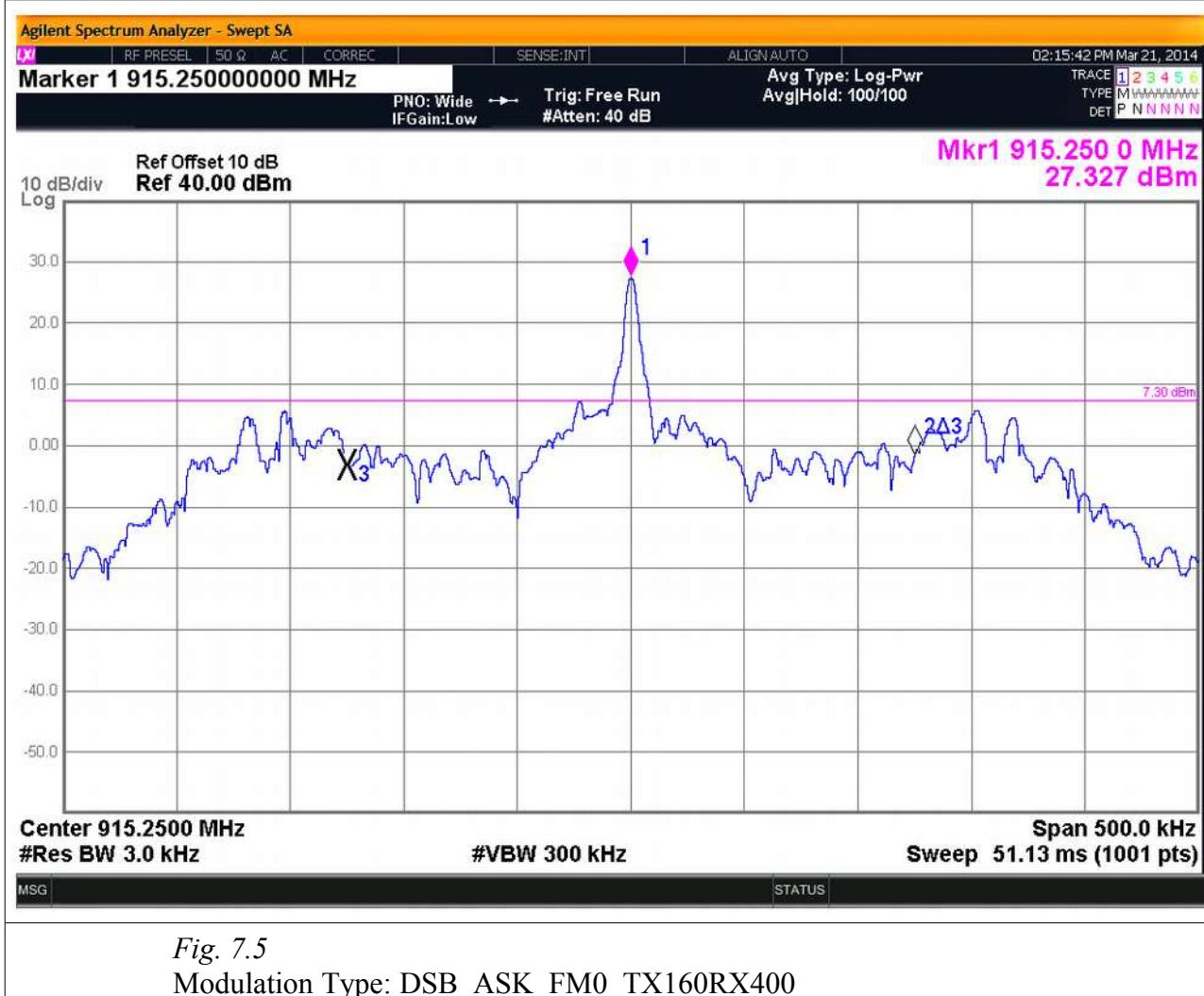


Fig. 7.4  
Modulation Type: DSB\_ASK\_FM0\_TX160RX400

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Ch 25: Bandwidth

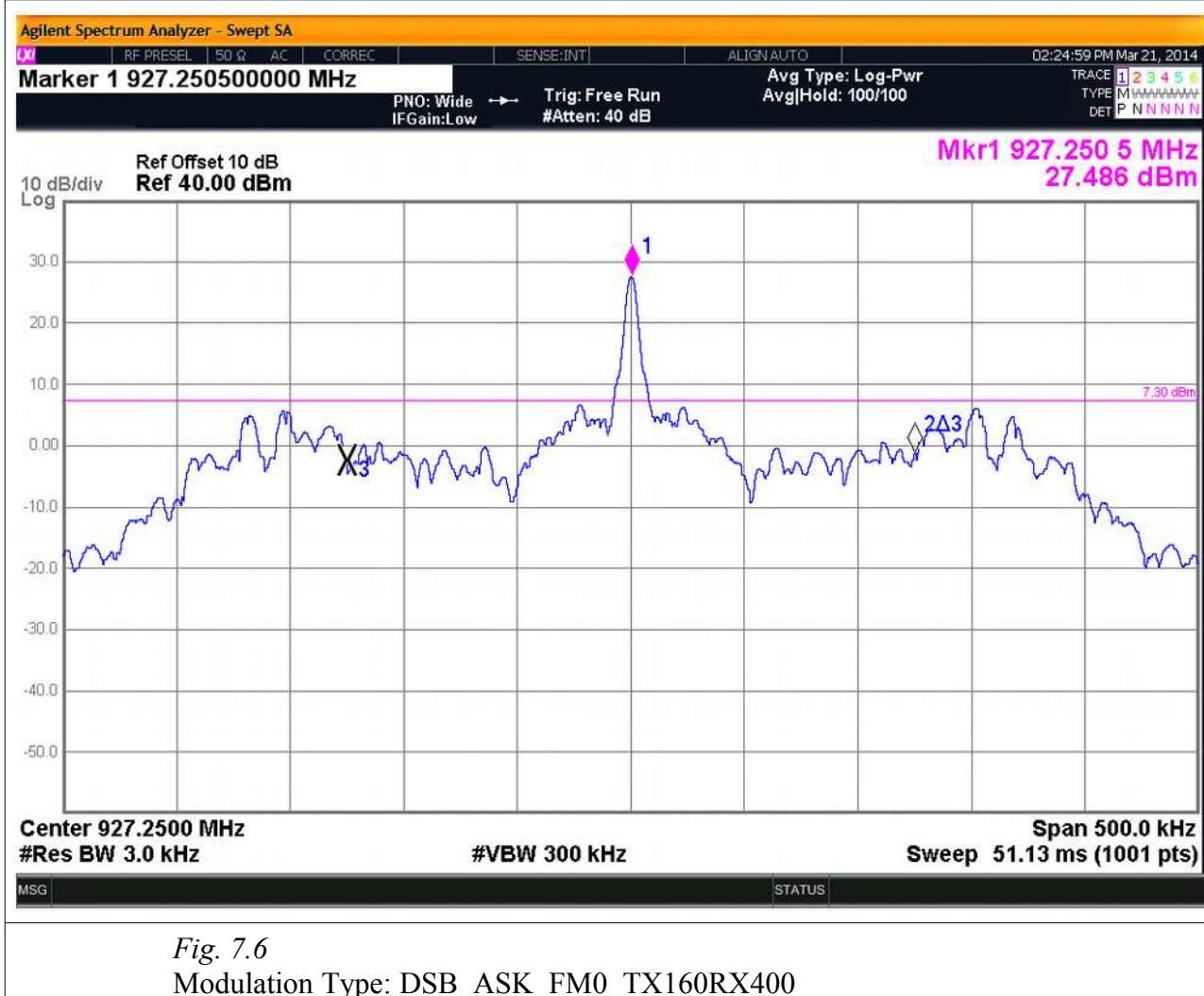


*Fig. 7.5*  
Modulation Type: DSB\_ASK\_FM0\_TX160RX400

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Ch 49: Bandwidth

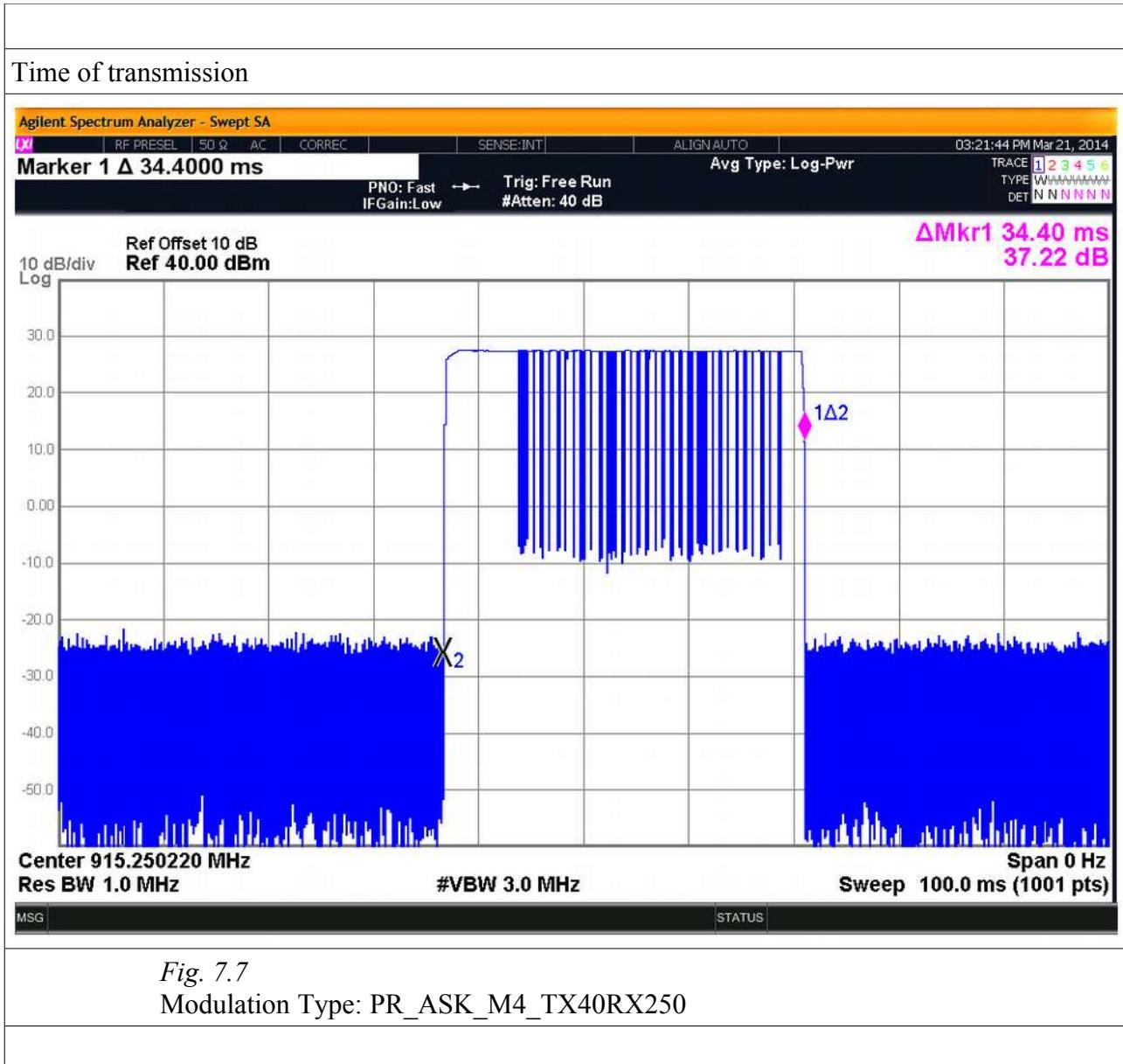


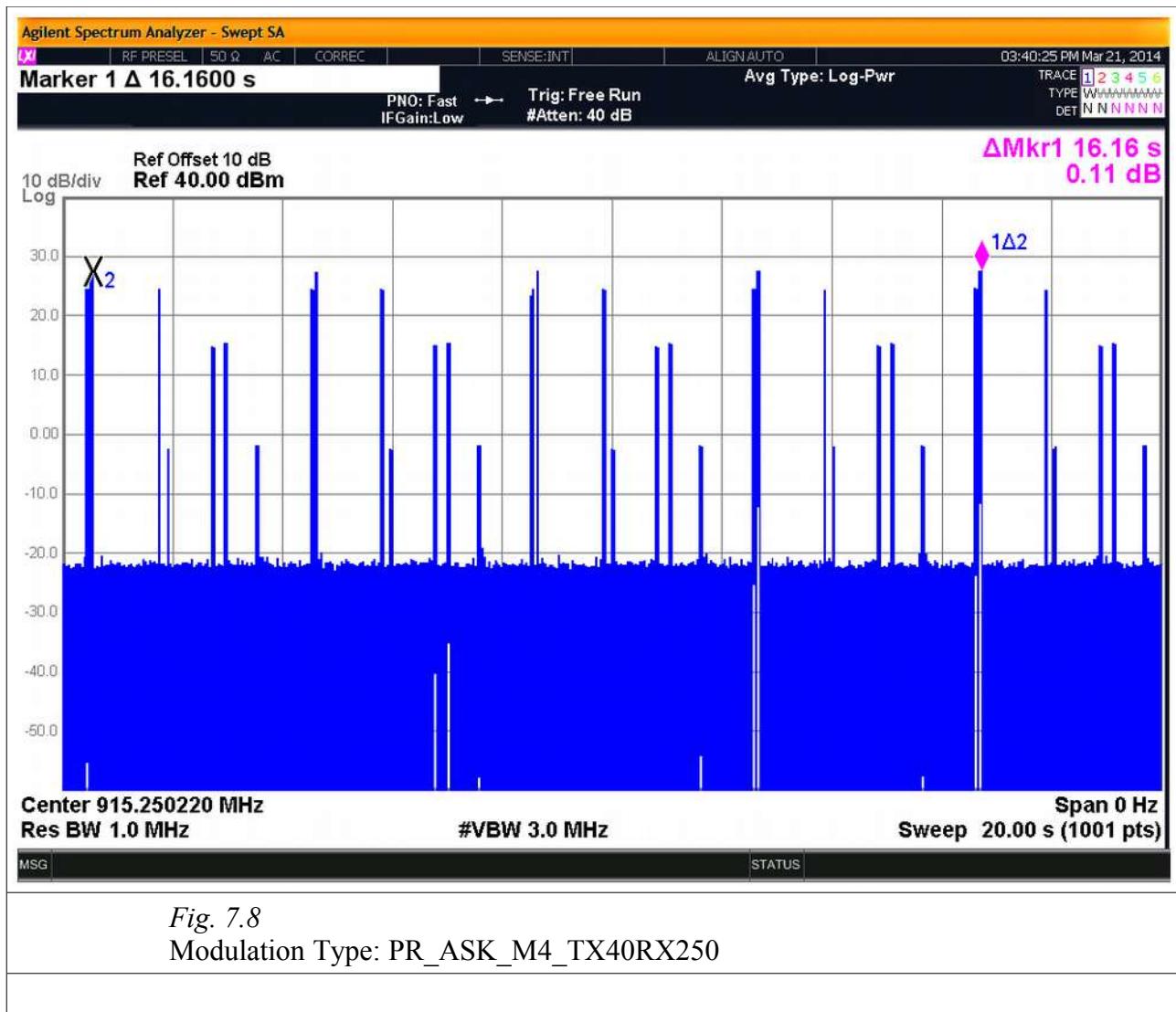
*Fig. 7.6*  
Modulation Type: DSB\_ASK\_FM0\_TX160RX400

Average Time of Occupancy:				
Channel	Dwell Time (ms)	Nr. of Transmission for channel (average)	Modulation	Time of Occupancy (ms)
25	11.7	7	Type 1	81.9
25	34.4	5.0	Type 2	172.0

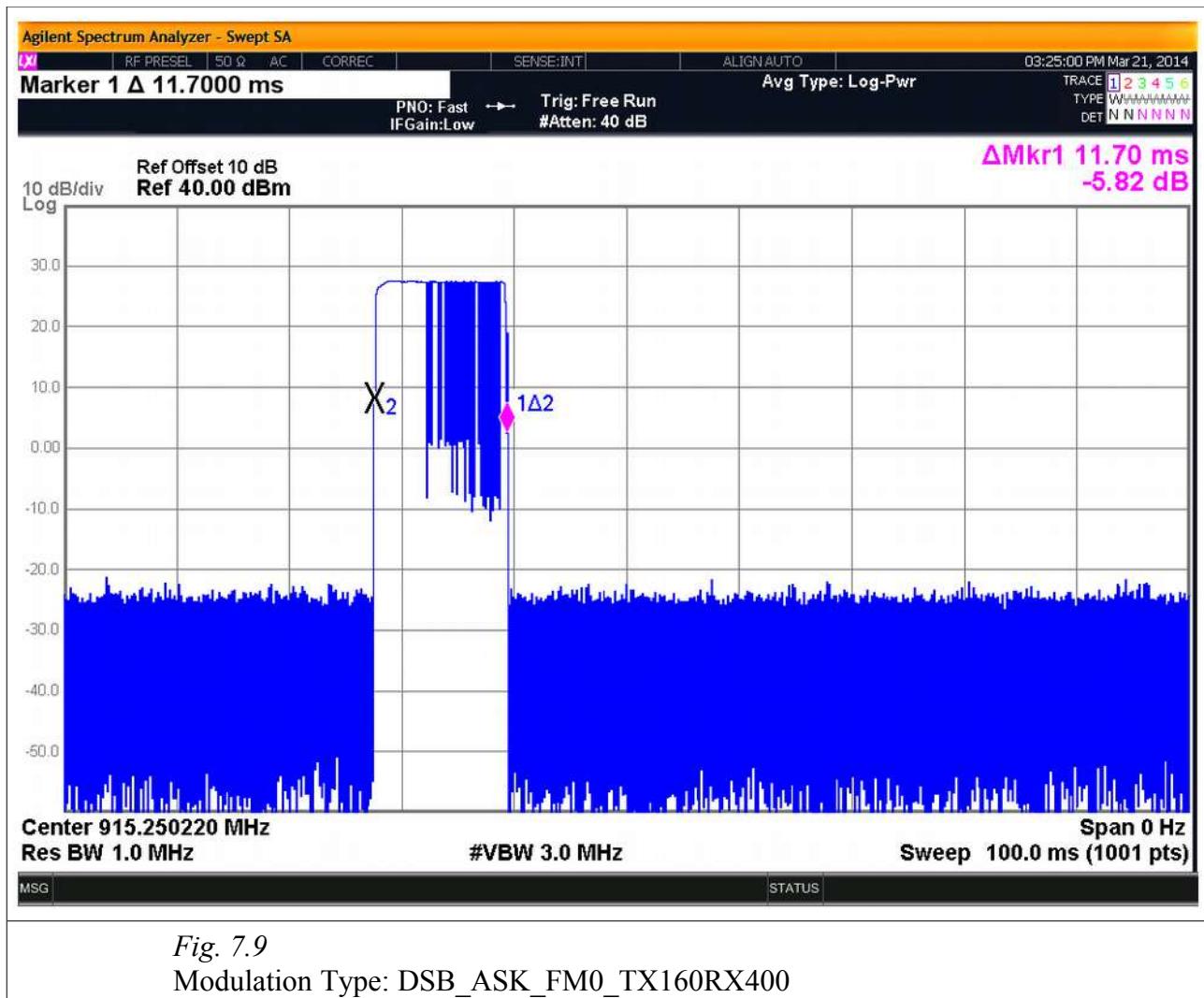
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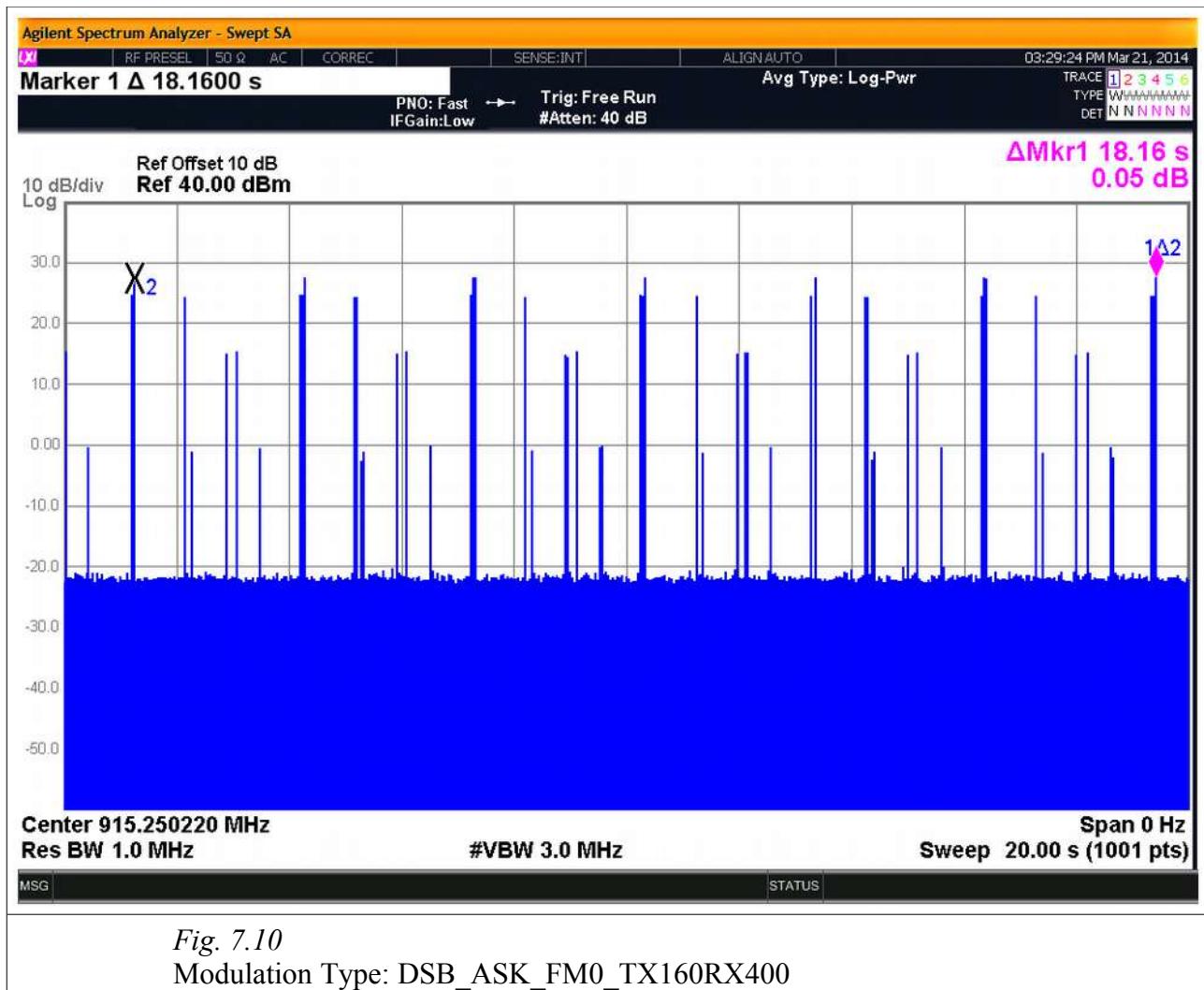




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<u>Test Equipment</u>			
EQUIPMENT	MANUFACTURER	MODEL	CAL. DUE
EMI Receiver	HP	HP8546A	01/2015
EMI Receiver Filter Section	HP	HP85460A	01/2015
MXE EMI Receiver	Agilent	N9038A	01/2015
Anechoic Chamber	Comtest	CSA01	01/2015
Bilog Antenna	Schaffner	CBL6112B	01/2015
Horn Antenna	EMCO	3115	01/2015
Controller	Deisel	HD100	01/2015
Turn Table	Deisel	MA240	01/2015
LISN	GSD	NTW06	01/2015

<u>Test procedure:</u> CE22R01
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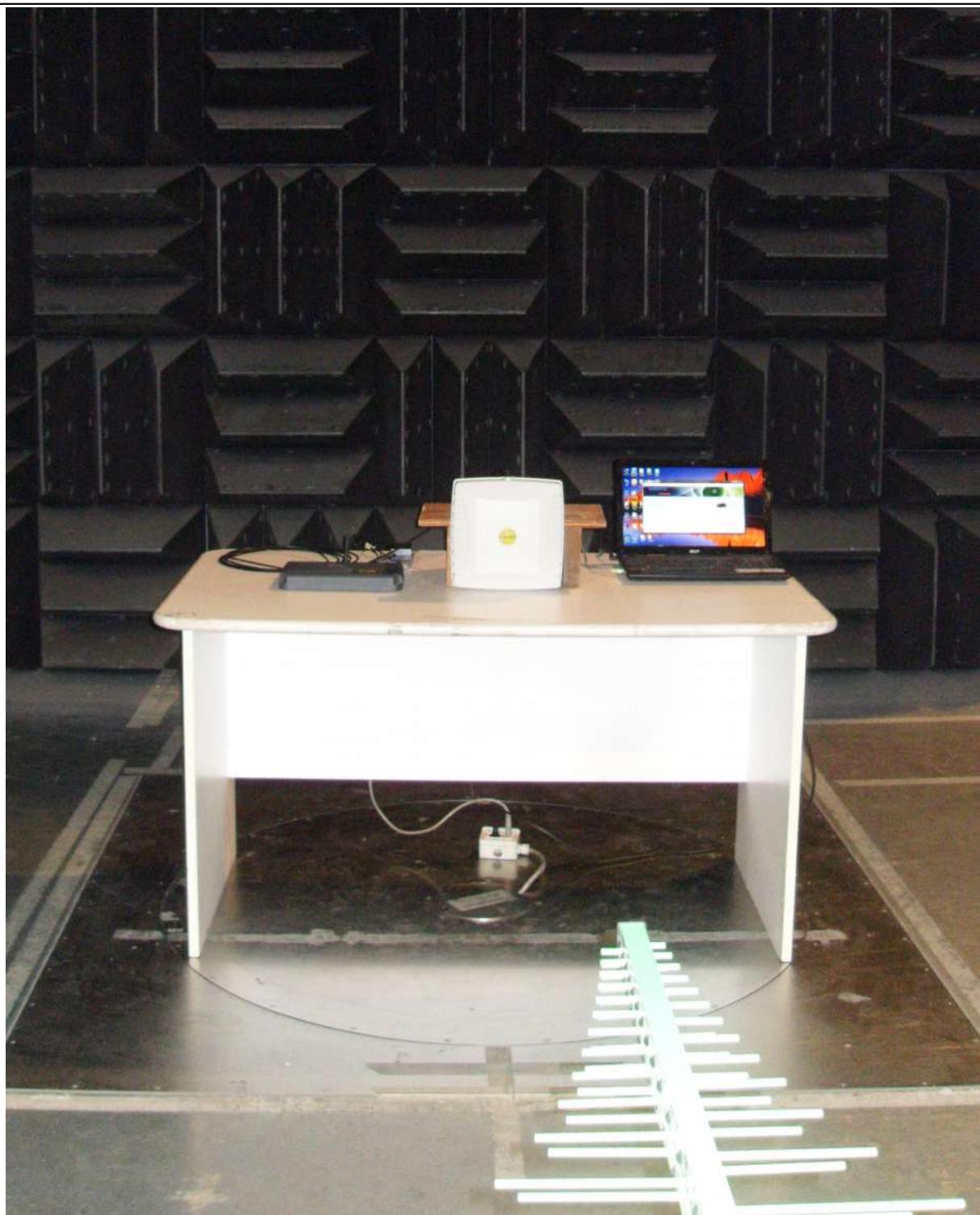
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**8. PHOTO**



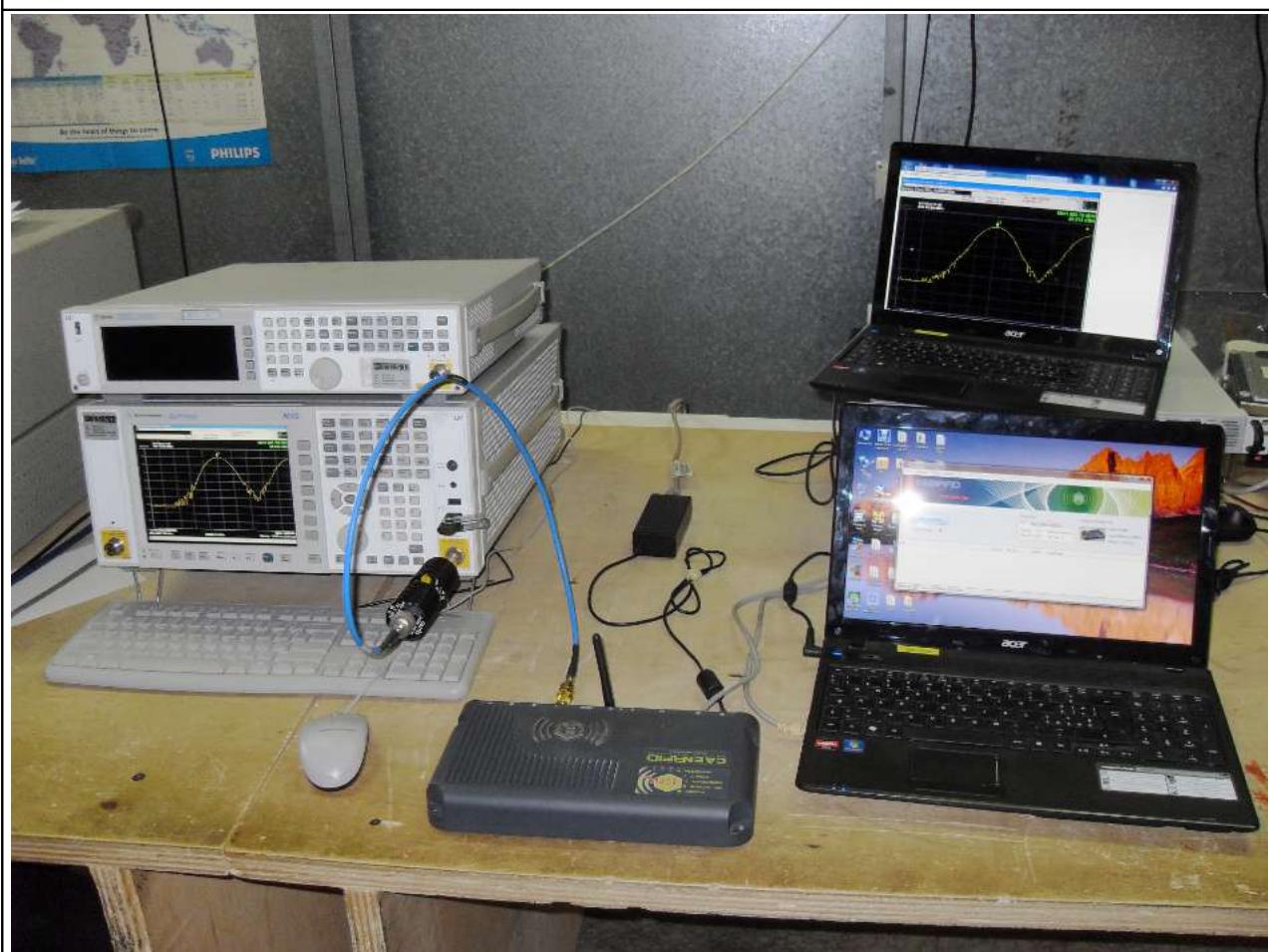
*Fig. 8.1  
Conducted Emissions Test Set-up*



*Fig. 8.2  
Radiated Emissions Test Set-up*



*Fig. 8.3  
Radiated Emissions Test Set-up*



*Fig. 8.4  
Conducted Transmission Test Set-up*