

Annex 1: Measurement diagrams  
to TEST REPORT  
No.: 17-1-0290002T24a

According to:  
**FCC Regulations**  
Part 15.225








**ISED-Regulations**  
RSS-Gen, Issue 4  
RSS-210, Issue 9

for

peiker acoustic GmbH

WMI - Wireless Mobile Interface  
WMI2-W205

**FCC-ID: QWY-WMI2W205**  
**ISED: 6588A-WMI2W205**

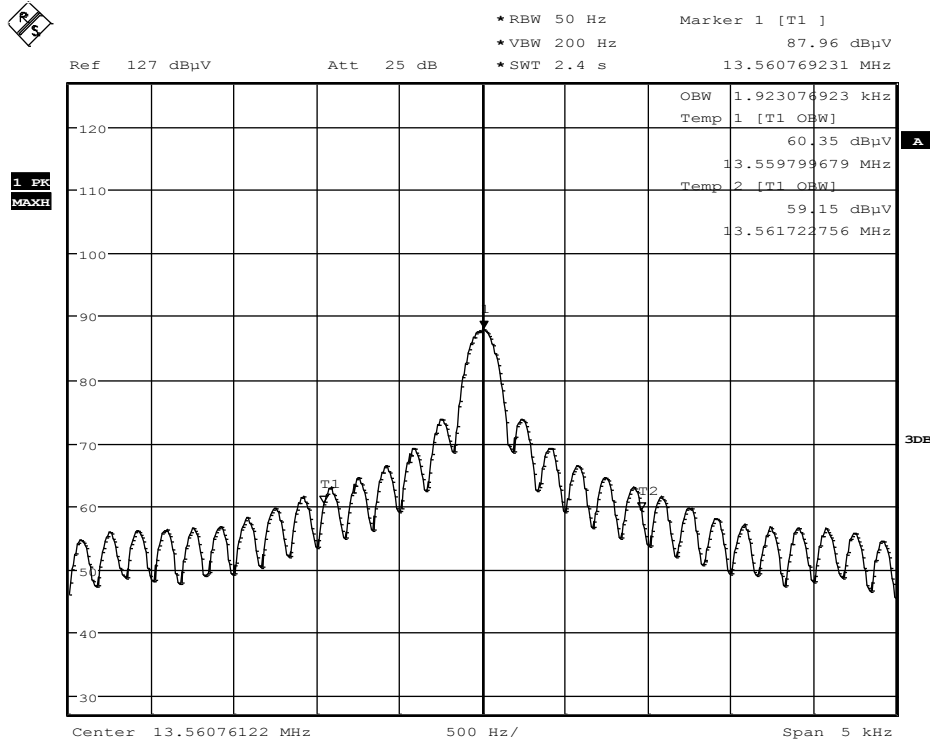
Laboratory Accreditation and Listings		
 Deutsche Akkreditierungsstelle D-PL-12047-01-01  Accredited EMC-Test Laboratory	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions  Reg. No.: R-20013, C-20009, T-20006, G-20013
 	 Lab Code: 20011130-00	 MRA US-EU 0003
accredited according to DIN EN ISO/IEC 17025		
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Laboratory Accreditation and Listings		

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# 1. Measurement diagrams with external antenna

## 1.1. Operating frequency range (99% OBW)

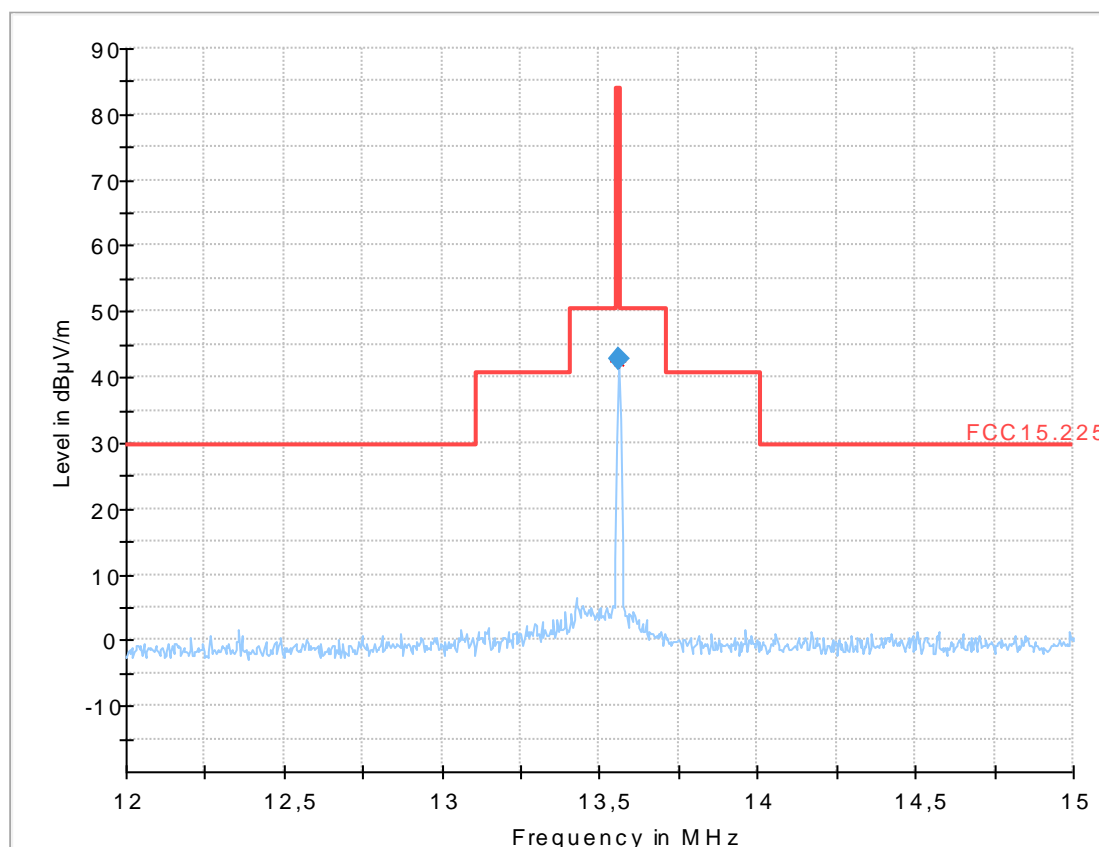


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**Diagram 1:** OBW 99% under Tnom Vnom with external antenna

## 1.2. Field strength emissions within band 13.110-14.010 MHz

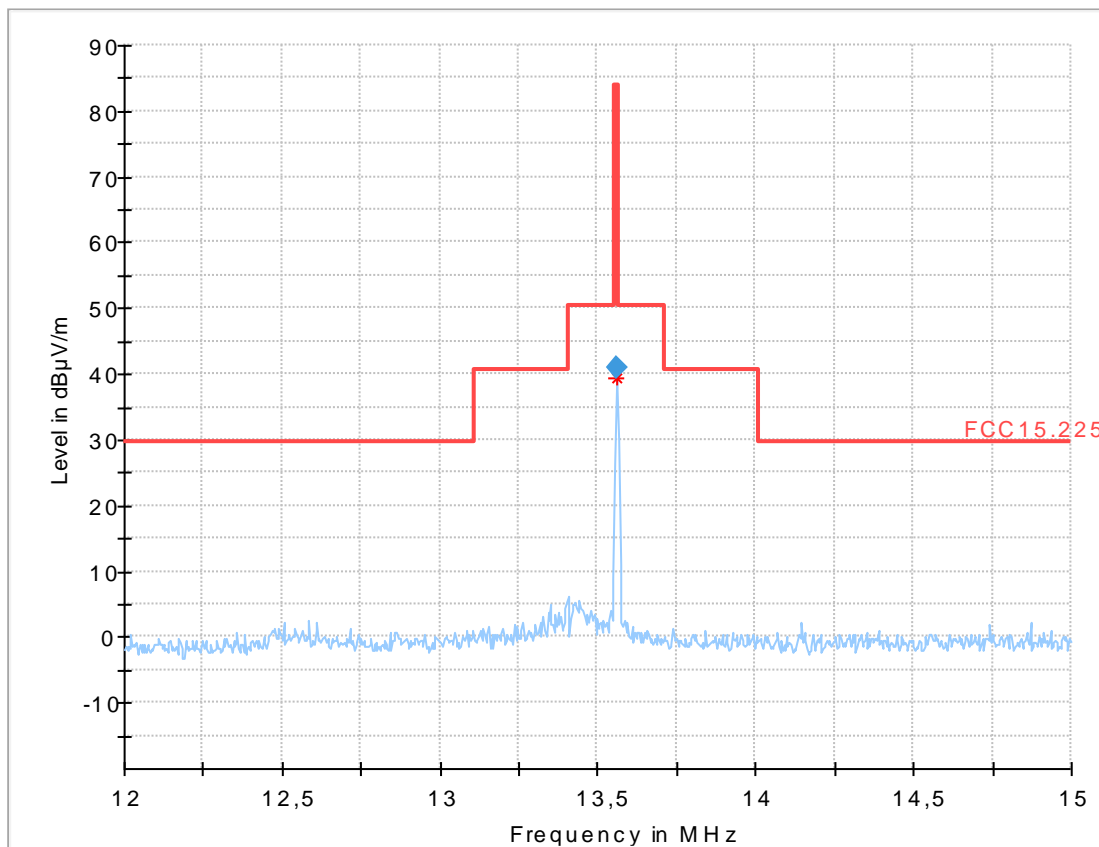
### Diagram 2.01\_External antenna\_TX\_Spectrum\_Mask\_laying



#### Final Result

Frequency (MHz)	Value PK (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
13.562000	42.69	84.00	41.31	1000.0	10.000	100.0	V	142.0	-11.8

### Diagram 2.02\_External antenna\_TX\_Spectrum\_Mask\_standing

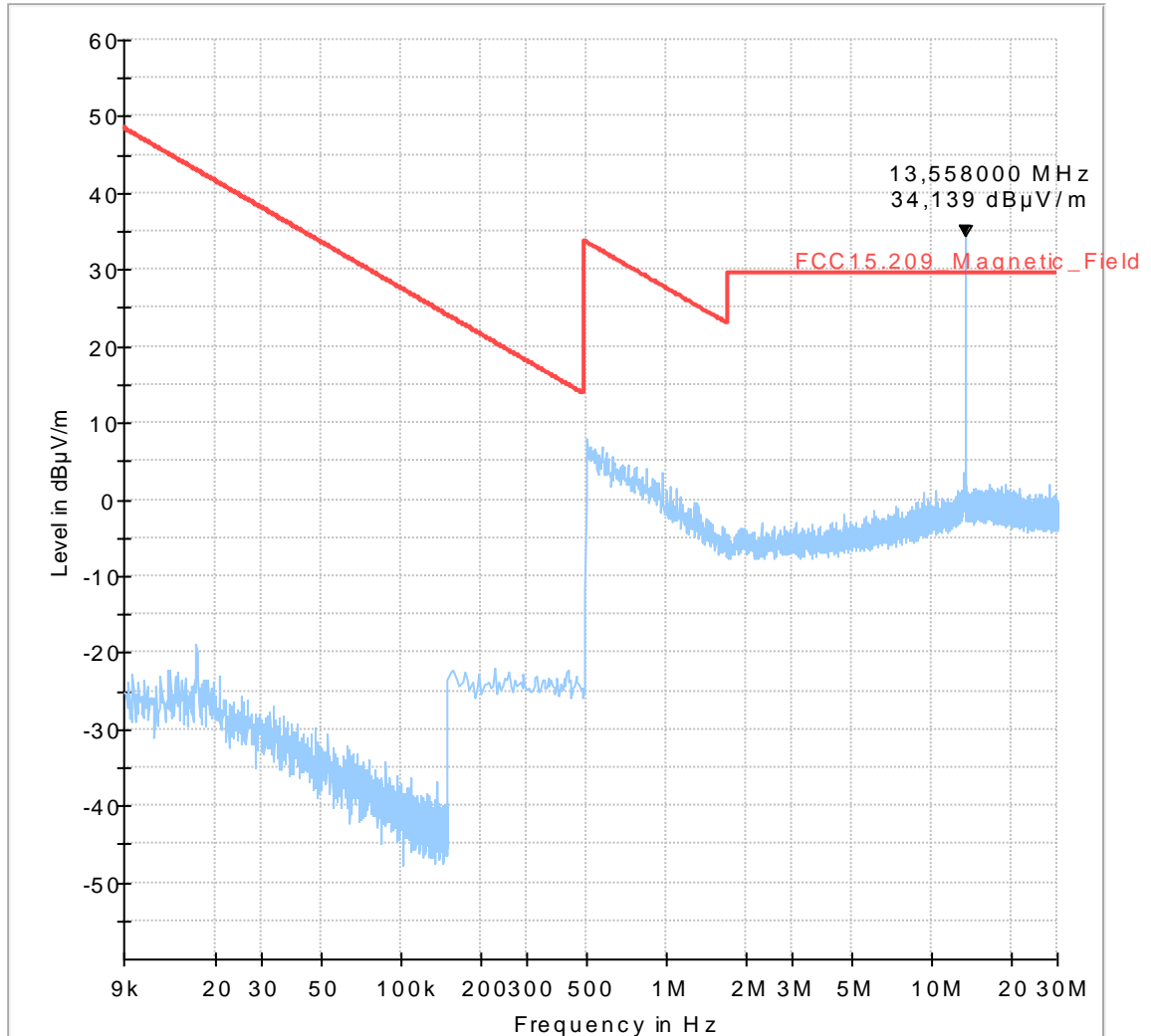


**Final Result**

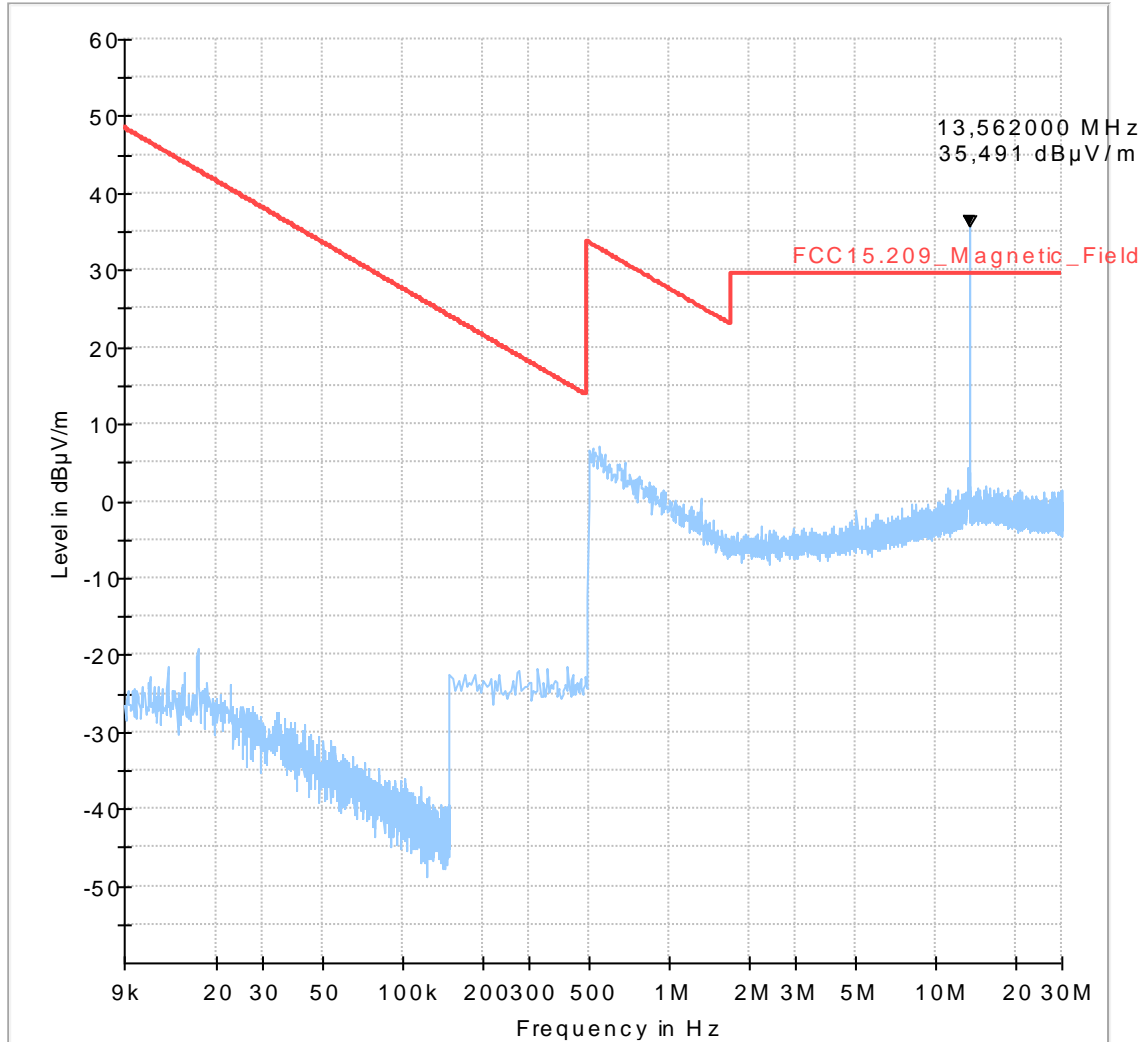
Frequency (MHz)	Value Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
13.562000	40.86	84.00	43.14	1000.0	10.000	100.0	V	144.0	-11.8

**1.3. Transmitter spurious emissions below 30 MHz**

**Diagram 2.03\_RSE\_TX\_magnetic\_9KHz-30MHz\_laying**

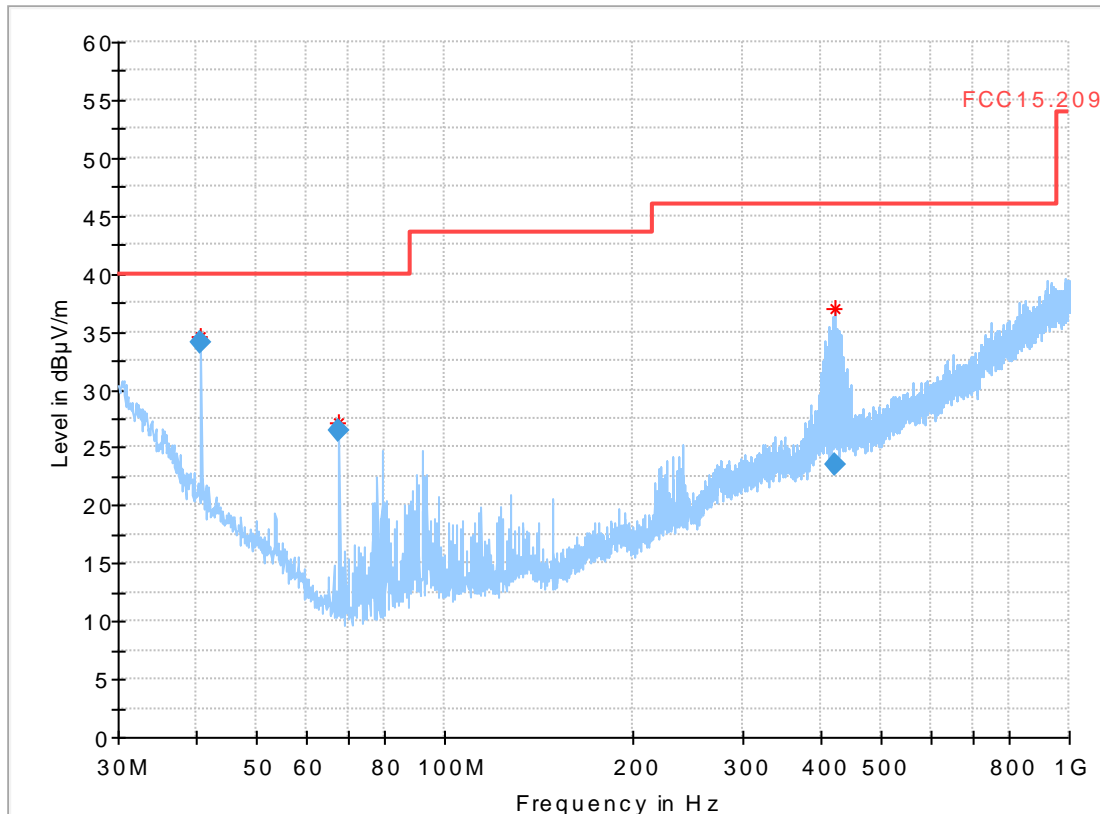


### Diagram 2.04\_RSE\_TX\_magnetic\_9KHz-30MHz\_standing



### 1.4. Transmitter spurious emissions above 30 MHz 3.01\_RSE\_TX\_30MHz-1GHz\_laying

Full Spectrum



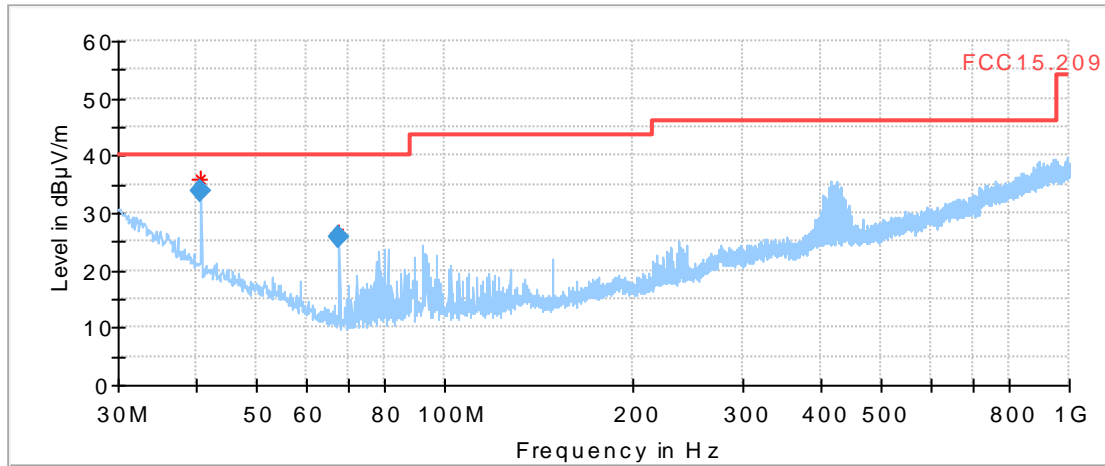
#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
40.690000	34.01	40.00	5.99	1000.0	120.000	105.0	V	159.0	16.8
67.800000	26.51	40.00	13.49	1000.0	120.000	150.0	V	231.0	6.8
422.890000	23.51	46.00	22.49	1000.0	120.000	353.0	V	118.0	19.0



### 3.02\_RSE\_TX\_30MHz-1GHz\_standing

Full Spectrum

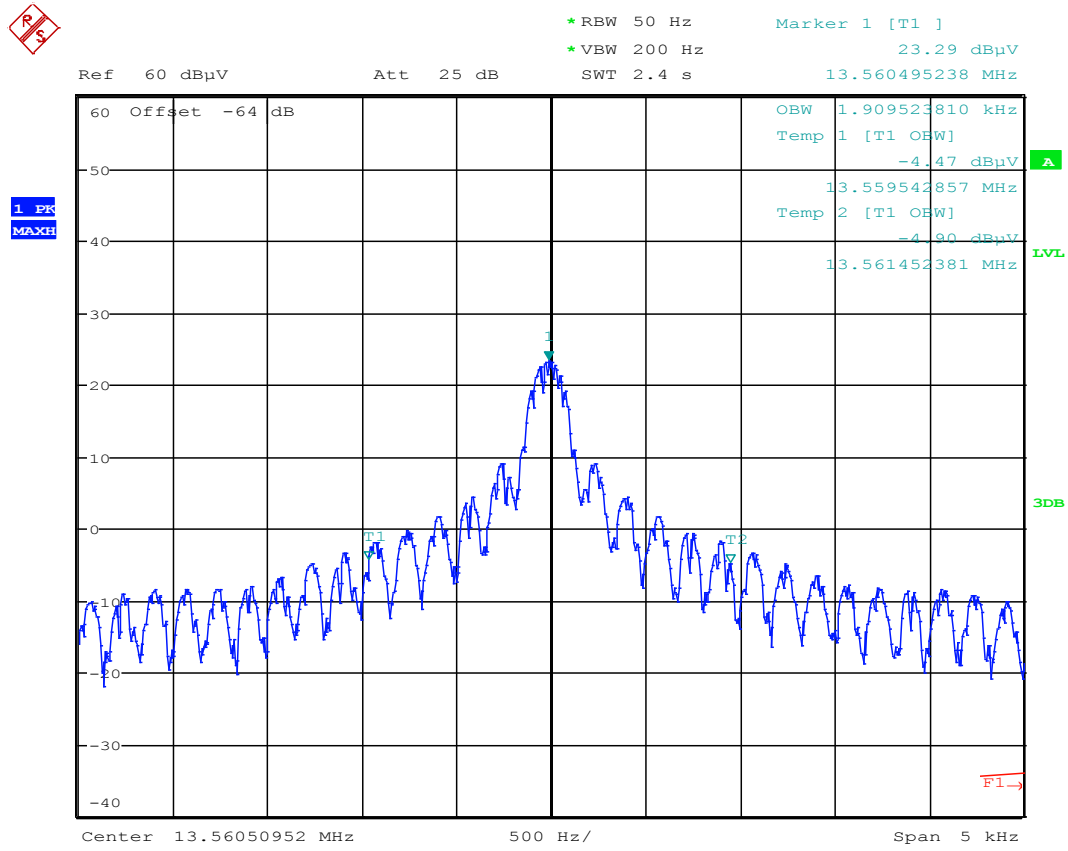


#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
40.670000	33.96	40.00	6.04	1000.0	120.000	105.0	V	166.0	16.8
67.810000	25.77	40.00	14.23	1000.0	120.000	163.0	V	237.0	6.8

## 2. Measurement diagrams with internal antenna

### 2.1. Operating frequency range (99% OBW)



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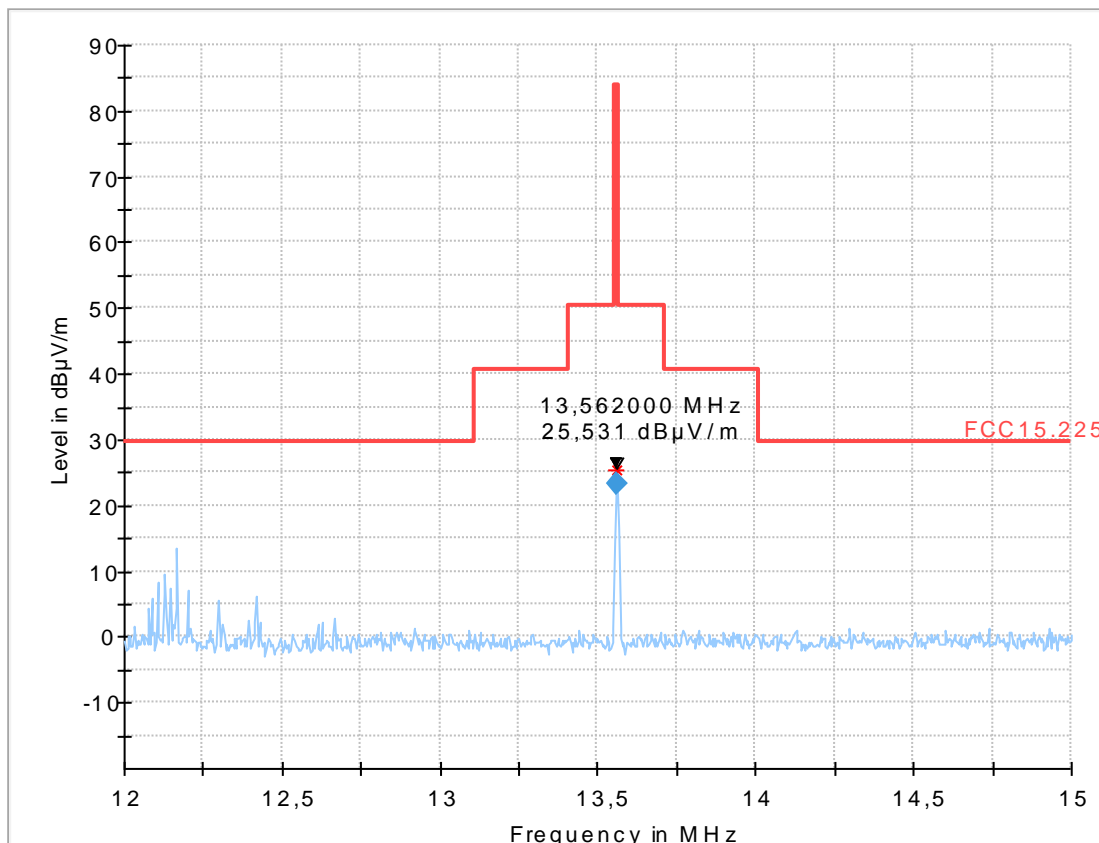
**Diagram 1:** OBW 99% under Tnom Vnom with internal antenna

## 2.2. Field strength emissions within band 13.110-14.010 MHz

### Diagram 2.02\_Internal antenna\_TX\_Spectrum\_Mask\_standing

#### Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Operating Conditions:	Humidity: 45%rH; Temperature: 20°C
Operator Name:	DLe
Comment:	DUT Standing



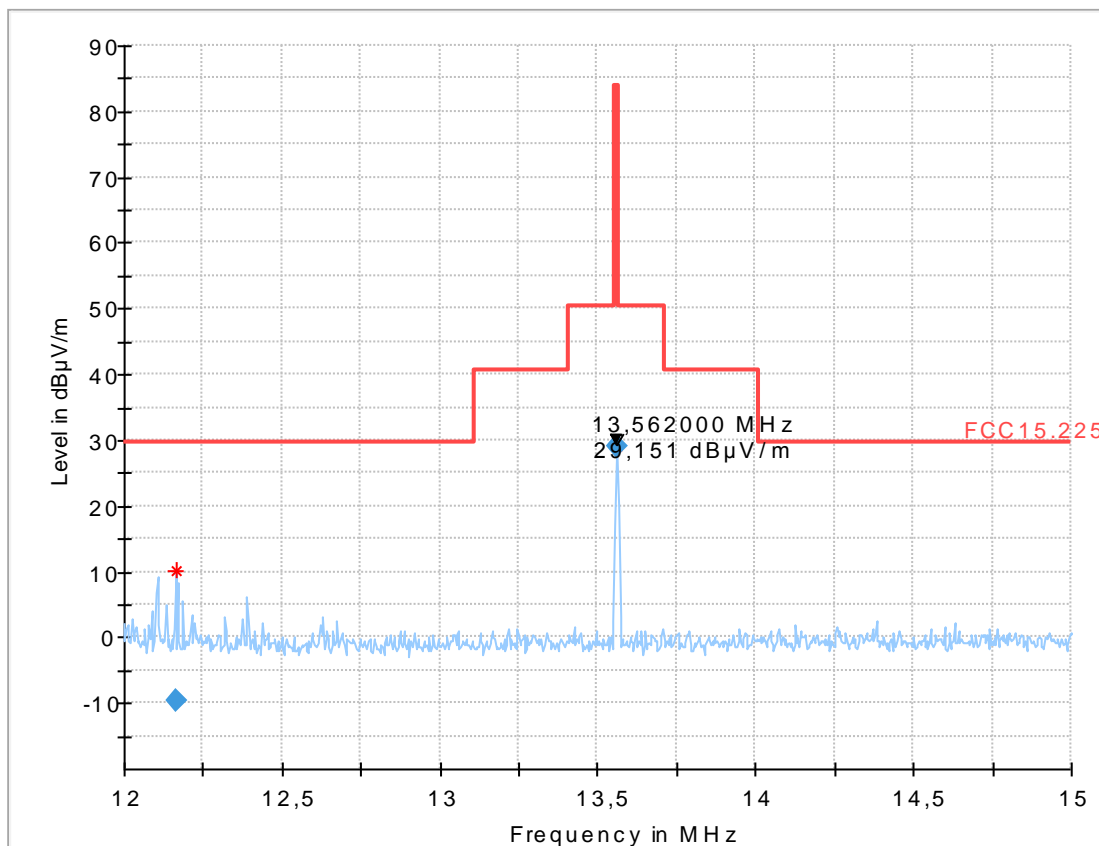
#### Final Result

Frequency (MHz)	Peak value (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
13.562000	23.40	84.00	60.60	1000.0	10.000	100.0	H	275.0	-11.8

(continuation of the "Final\_Result" table from column 16 ...)

Frequency (MHz)	Comment
13.562000	14:35:16 - 29.11.2017

### Diagram 2.04. Internal antenna\_TX\_Spektrum\_Mask\_Laying



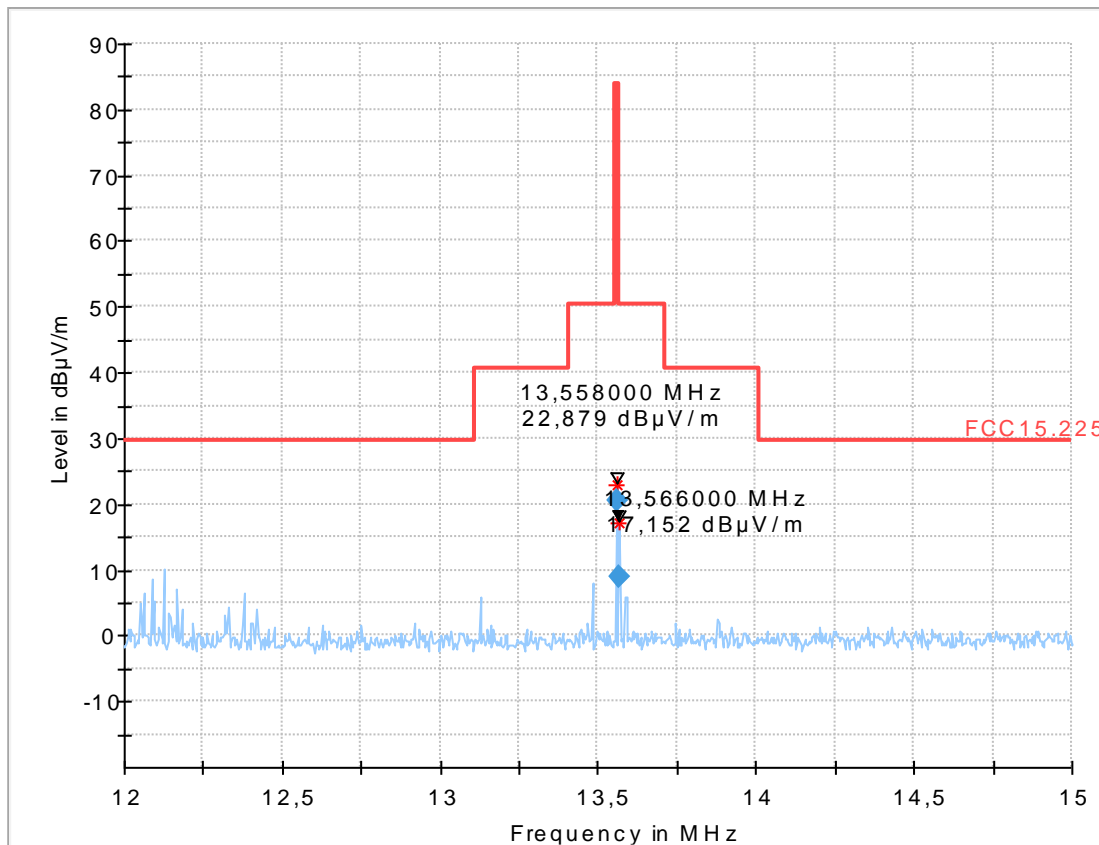
#### Final\_Result

Frequency (MHz)	Peak value (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
12.162000	-9.59	29.54	39.13	1000.0	10.000	100.0	H	319.0	-12.5
13.562000	29.15	84.00	54.85	1000.0	10.000	100.0	H	23.0	-11.8

(continuation of the "Final\_Result" table from column 16 ...)

Frequency (MHz)	Comment
12.162000	14:58:26 - 29.11.2017
13.562000	14:54:17 - 29.11.2017

### Diagram 2.01\_Internal antenna\_Modulation\_Spectrum\_Mask\_laying



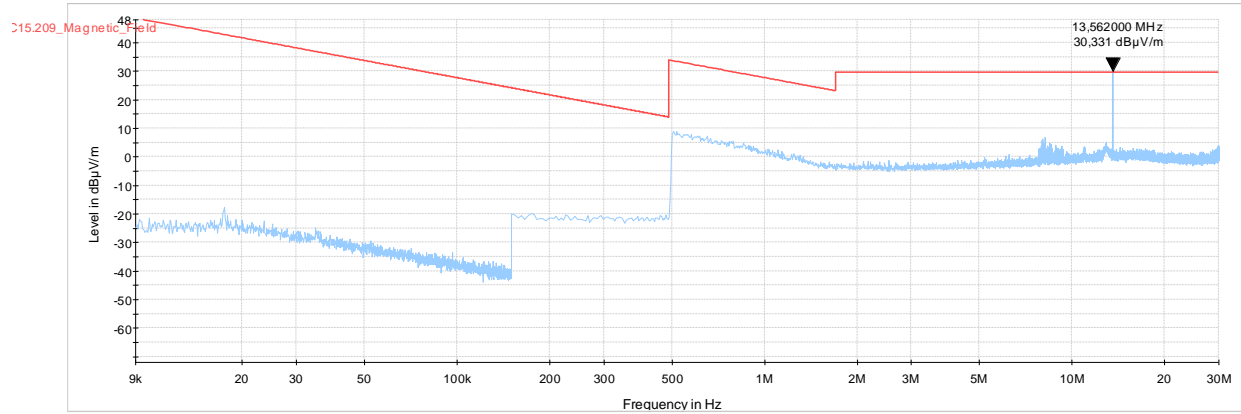
#### Final\_Result

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
13.558000	20.57	84.00	63.43	1000.0	10.000	100.0	V	36.0	-11.8
13.566000	8.83	84.00	75.17	1000.0	10.000	100.0	V	15.0	-11.8

(continuation of the "Final\_Result" table from column 16 ...)

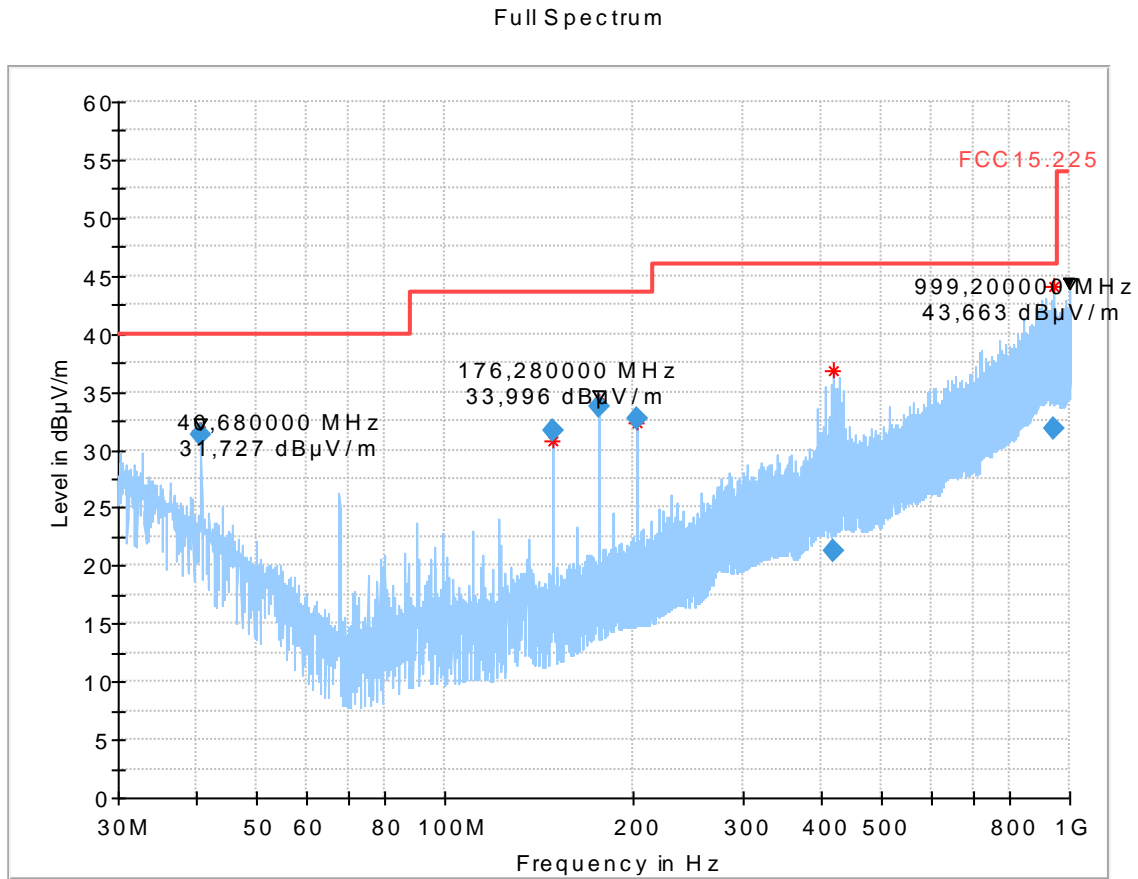
Frequency (MHz)	Comment
13.558000	13:12:43 - 29.11.2017
13.566000	13:08:13 - 29.11.2017

### 2.3. Transmitter spurious emissions below 30 MHz Diagram 2.02\_RSE\_TX\_magnetic\_9KHz-30MHz



## 2.4. Transmitter spurious emissions above 30 MHz

### Diagram 3.03\_RSE\_TX\_30MHz-1GHz



#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
40.680000	31.38	40.00	8.62	1000.0	120.000	221.0	H	296.0	90.0	16.8
149.164000	31.66	43.50	11.84	1000.0	120.000	134.0	H	257.0	90.0	8.6
176.284000	33.66	43.50	9.84	1000.0	120.000	109.0	H	278.0	0.0	10.5
203.408000	32.61	43.50	10.89	1000.0	120.000	146.0	H	186.0	0.0	11.4
419.080000	21.20	46.00	24.80	1000.0	120.000	360.0	V	125.0	90.0	18.8
939.516000	31.74	46.00	14.26	1000.0	120.000	368.0	H	61.0	0.0	27.1