

Figure 76: 40 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5300 MHz

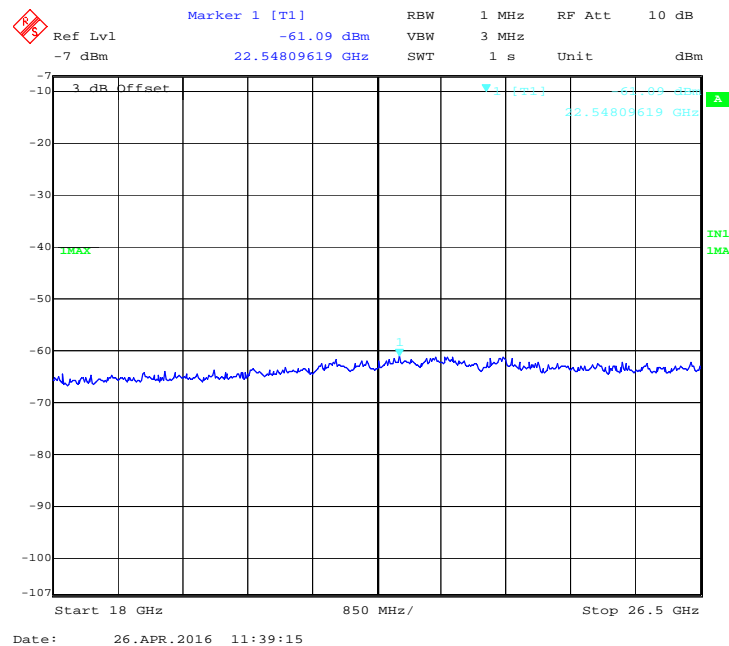


Figure 77: 40 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5300 MHz

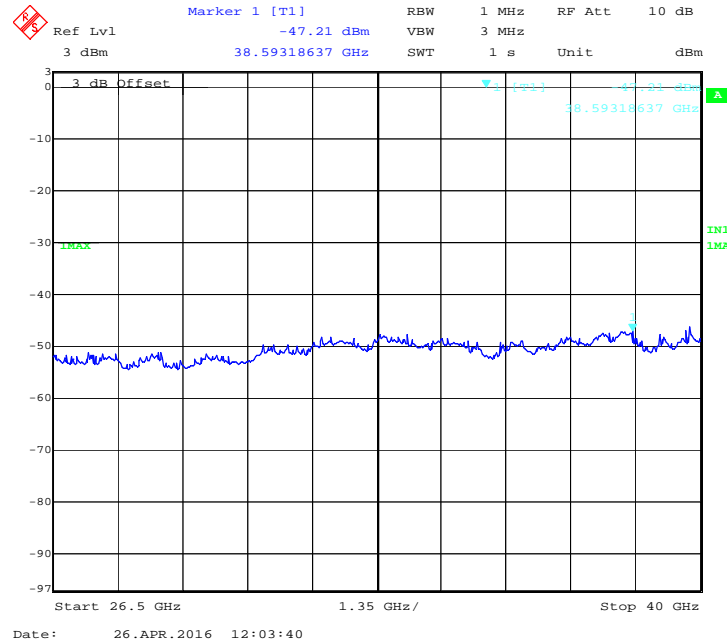


Figure 78: 40 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5300 MHz

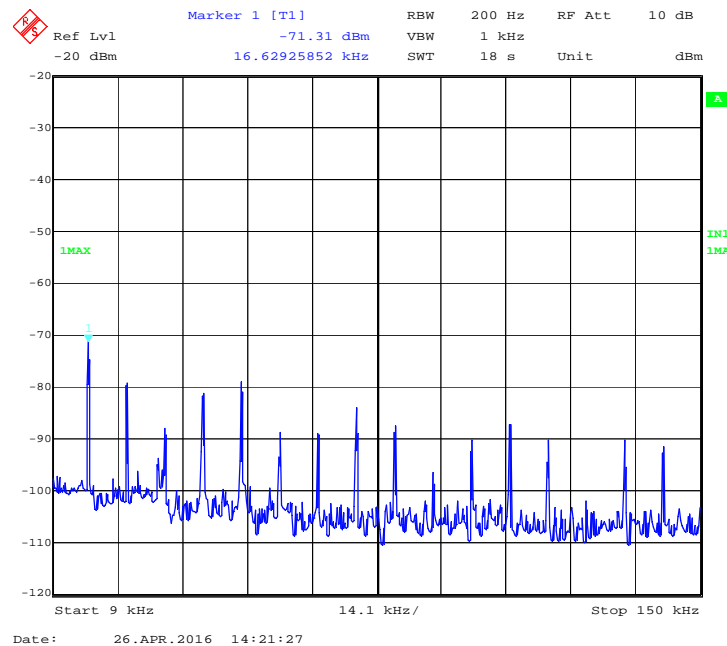


Figure 79: 40 MHz, 17 dBi, Mid channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5300 MHz

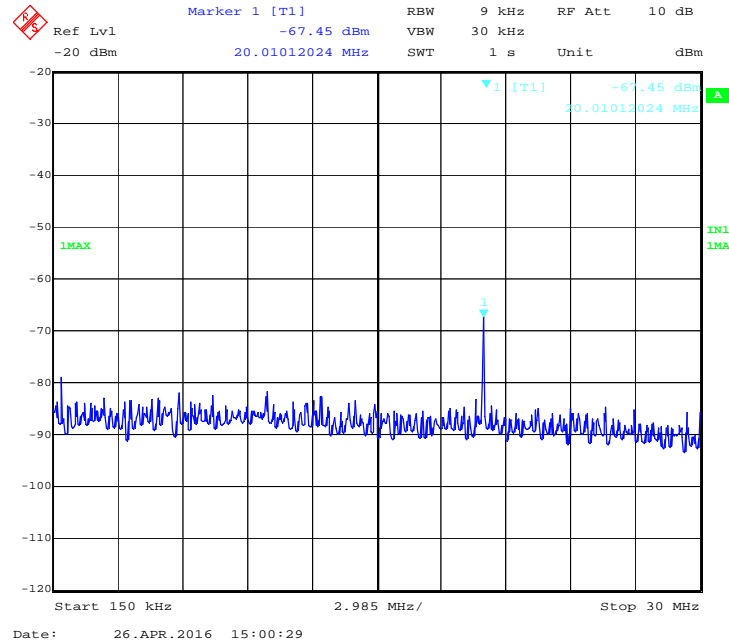


Figure 80: 40 MHz, 17 dBi, Mid channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 –5300 MHz

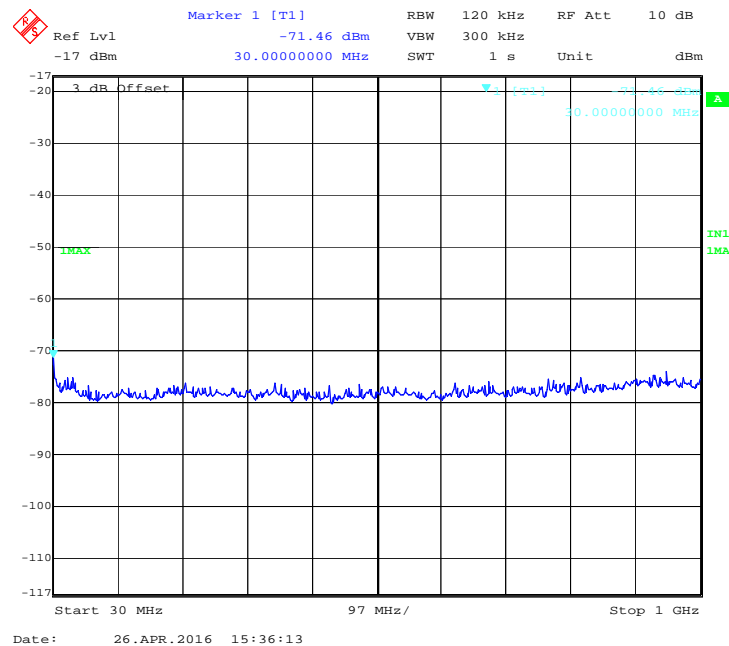


Figure 81: 40 MHz, 17 dBi, Mid channel: Peak emission from 30 MHz to 1 GHz at Ch. 1–5300 MHz

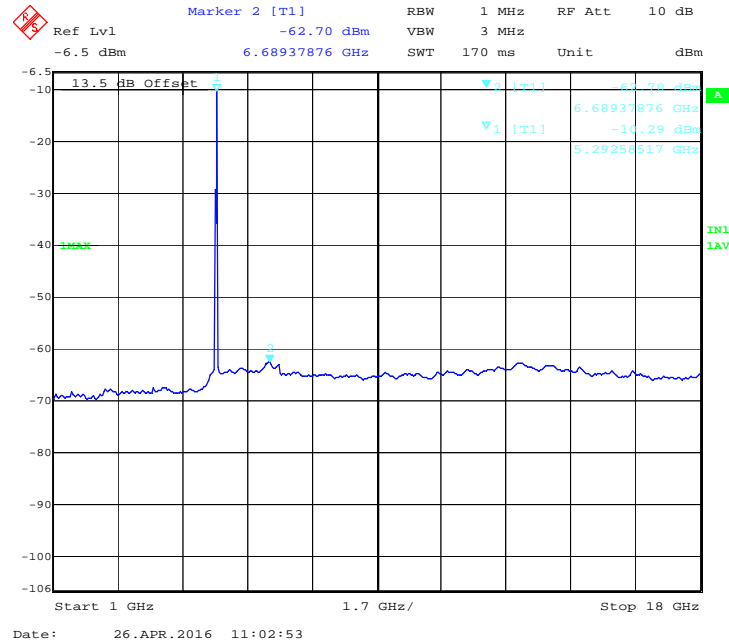


Figure 82: 40 MHz, 17 dBi, Mid channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5300 MHz

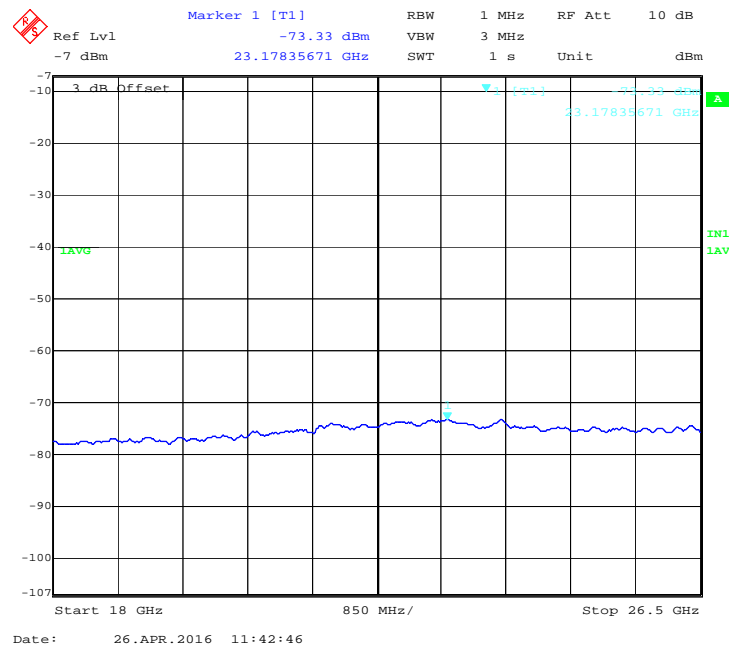


Figure 83: 40 MHz, 17 dBi, Mid channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5300 MHz

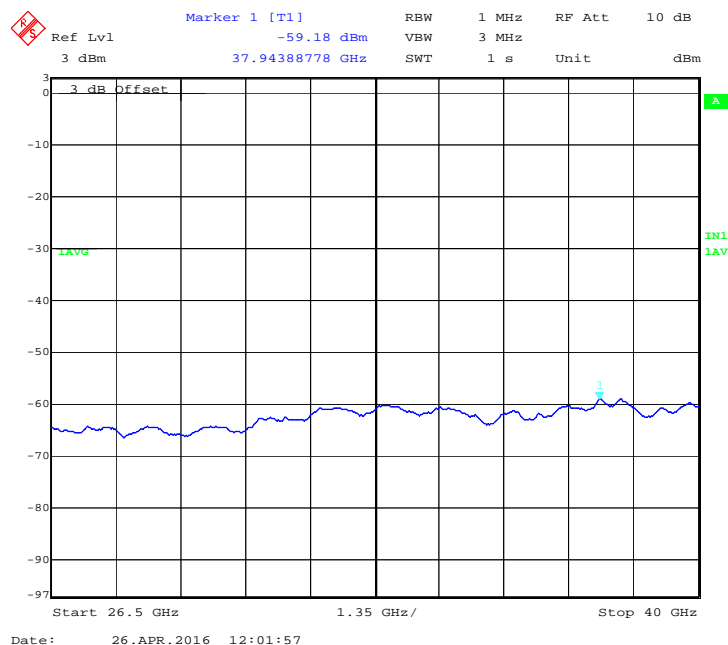


Figure 84: 40 MHz, 17 dBi, Mid channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5300 MHz

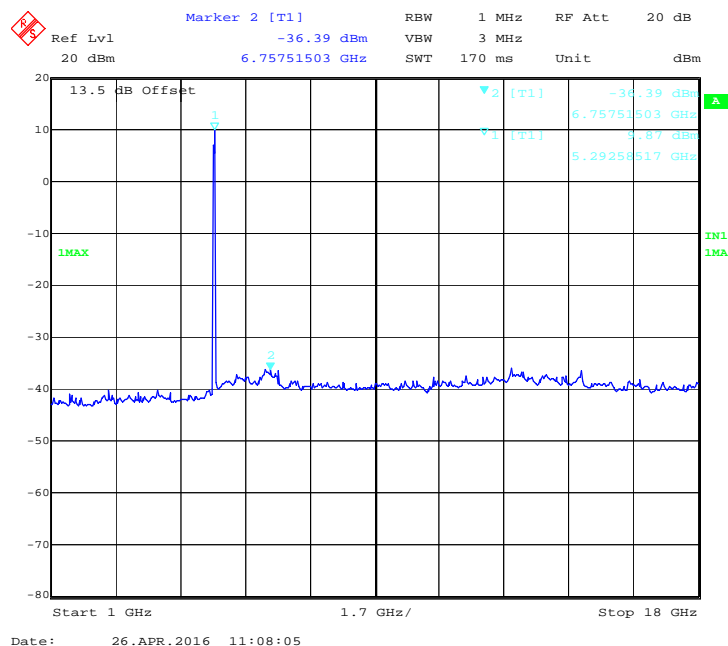


Figure 85: 40 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5300 MHz

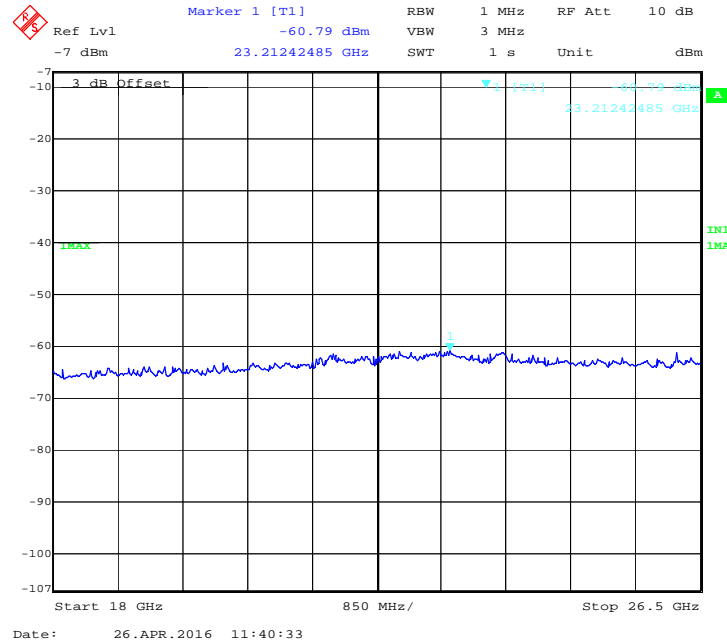


Figure 86: 40 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 -5300 MHz

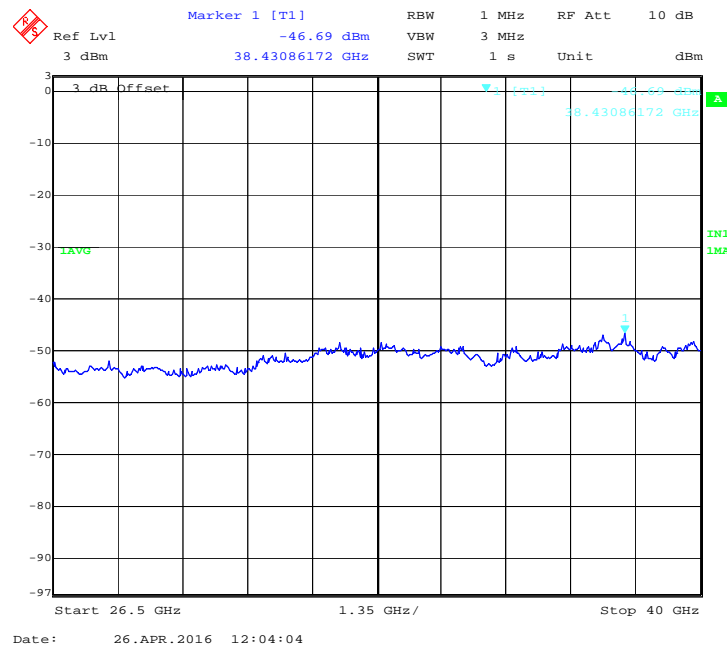


Figure 87: 40 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 -5300 MHz

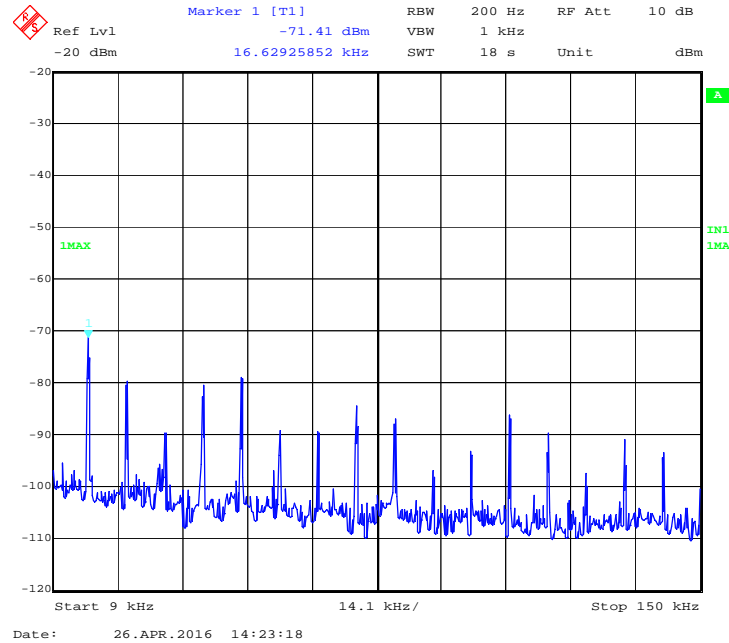


Figure 88: 40 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 -5320 MHz

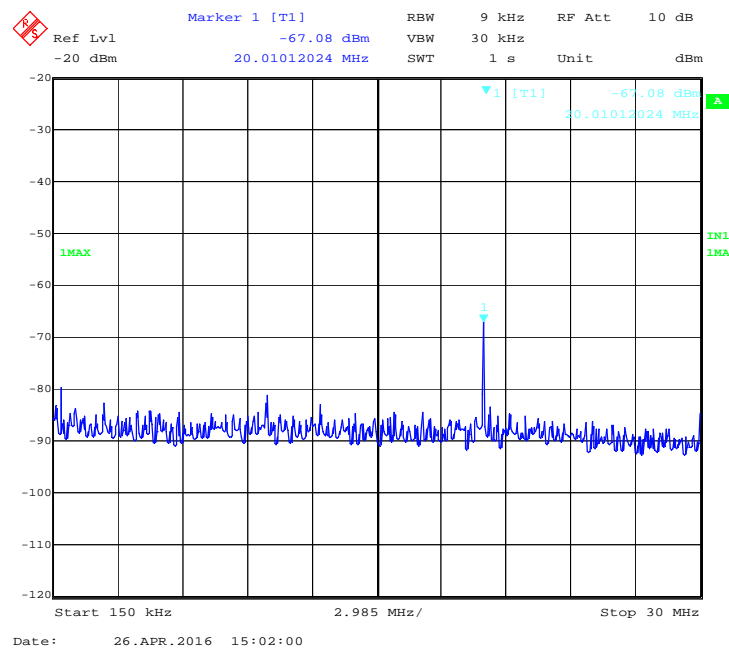


Figure 89: 40 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 -5320 MHz

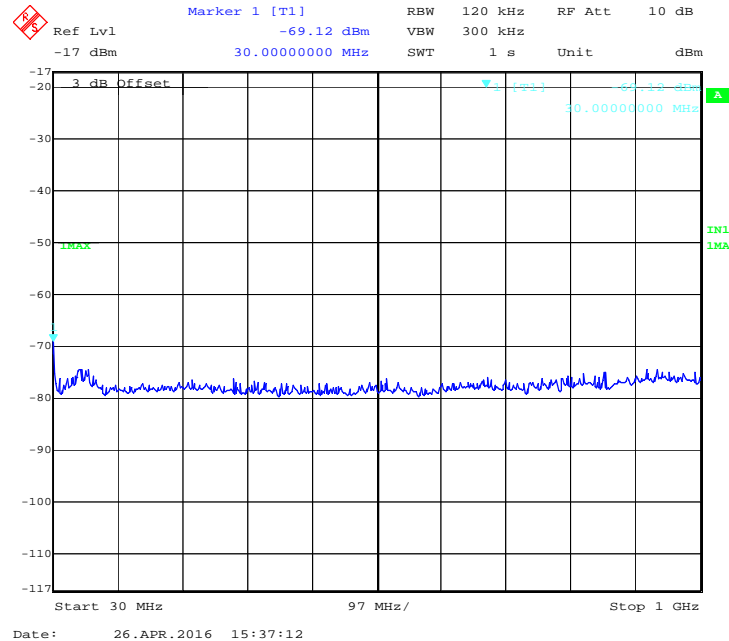


Figure 90: 40 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 –5320 MHz

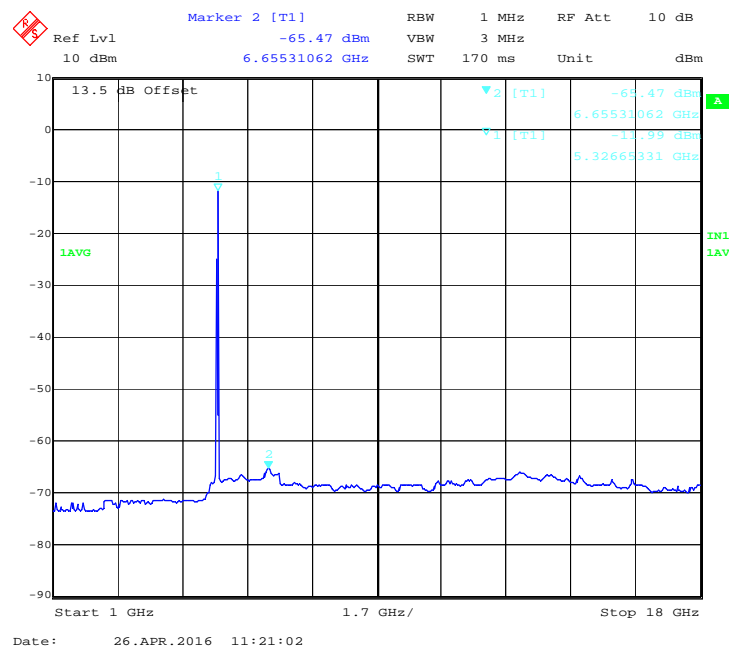


Figure 91: 40 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 0 –5320 MHz



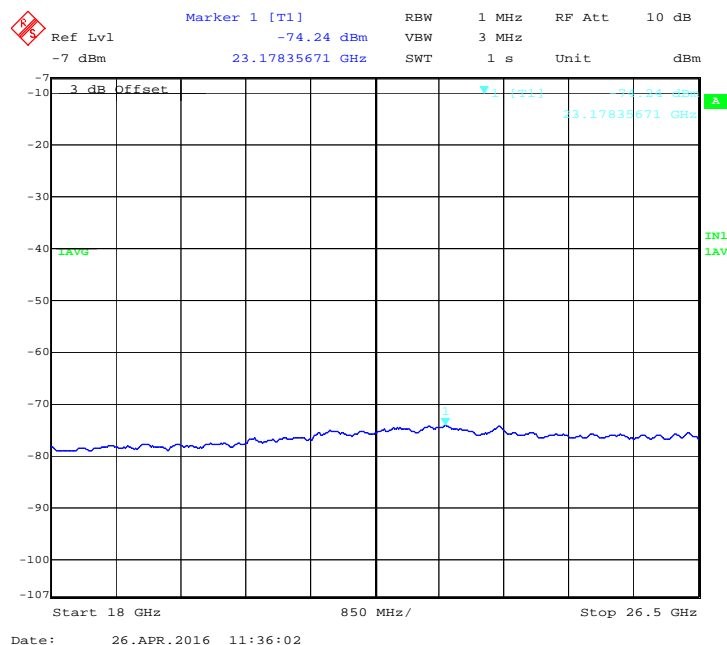


Figure 92: 40 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5320 MHz

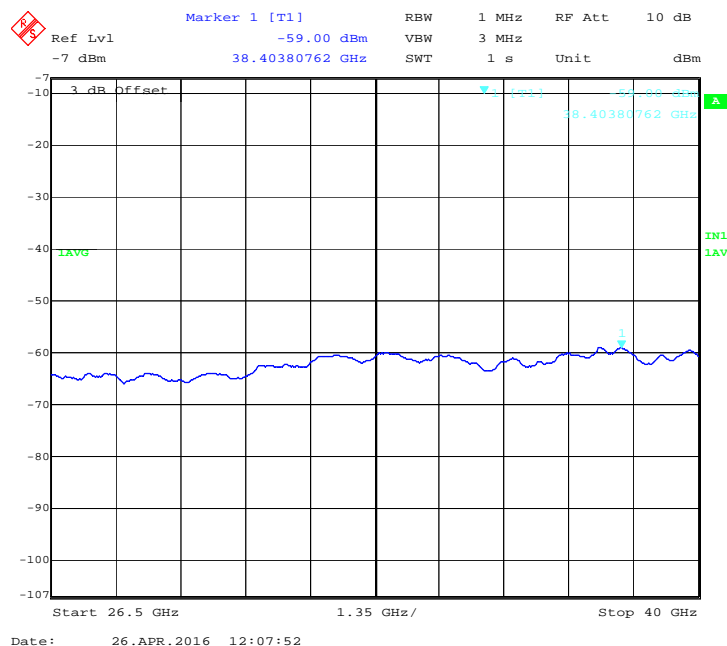


Figure 93: 40 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5320 MHz

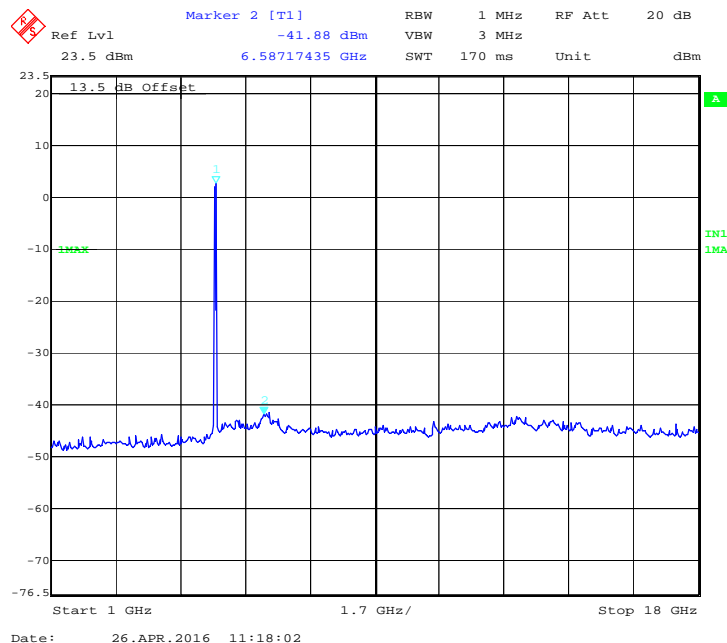


Figure 94: 40 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5320 MHz

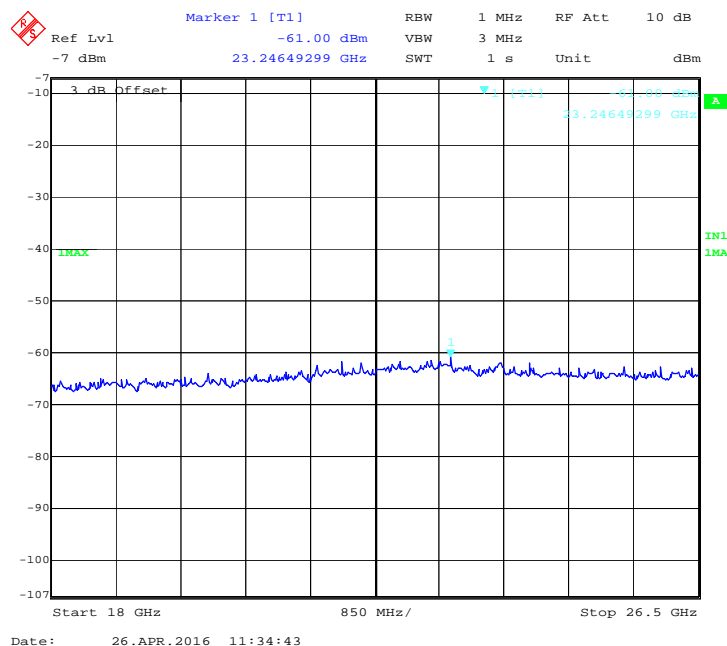


Figure 95: 40 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5320 MHz

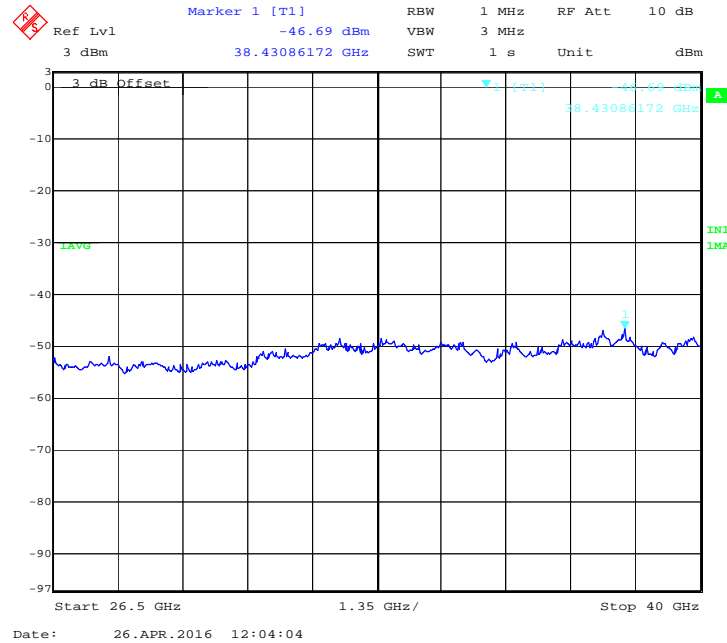


Figure 96: 40 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5320 MHz

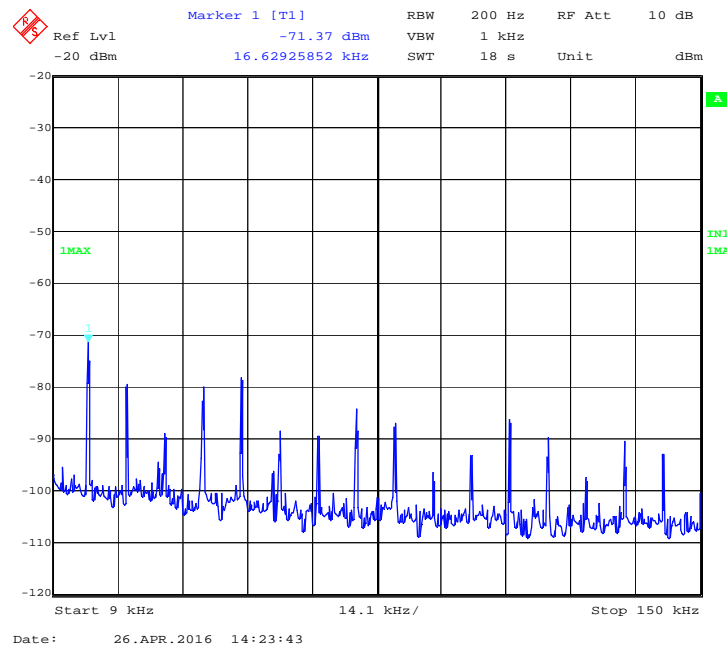
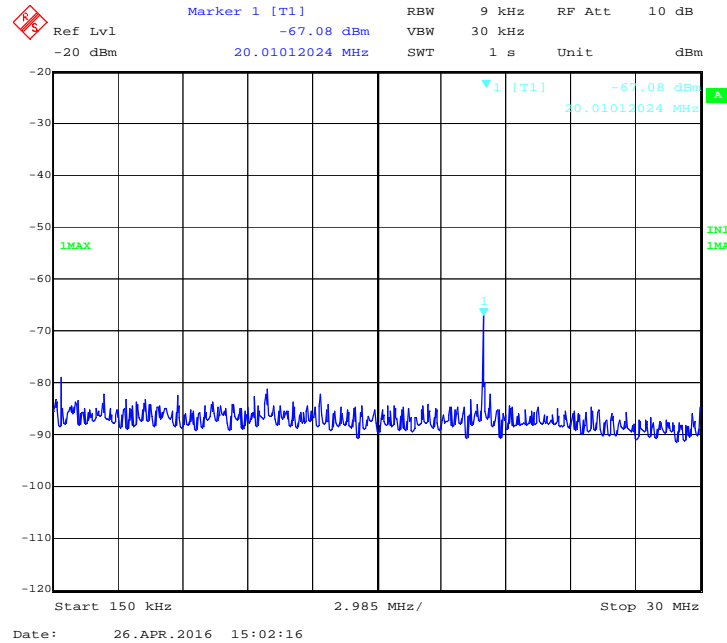
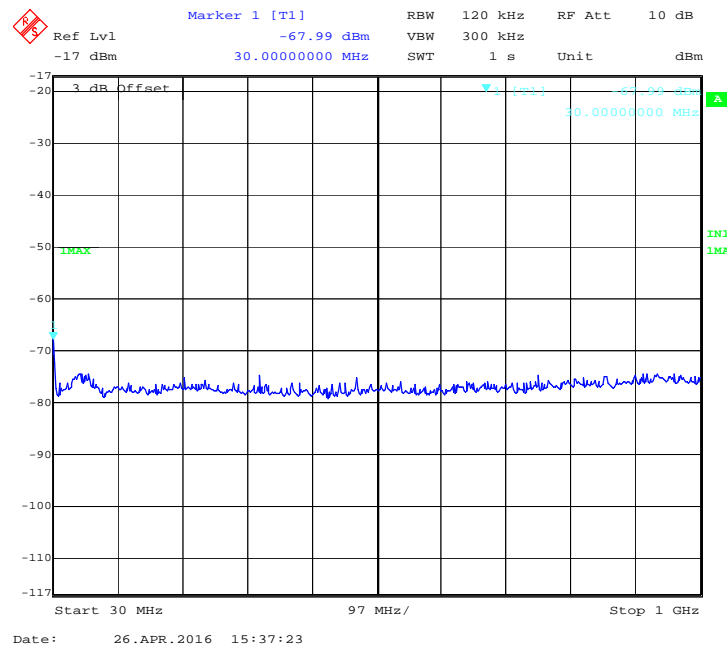


Figure 97: 40 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5320 MHz



**Figure 98: 40 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 -5320 MHz**



**Figure 99: 40 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 -5320 MHz**

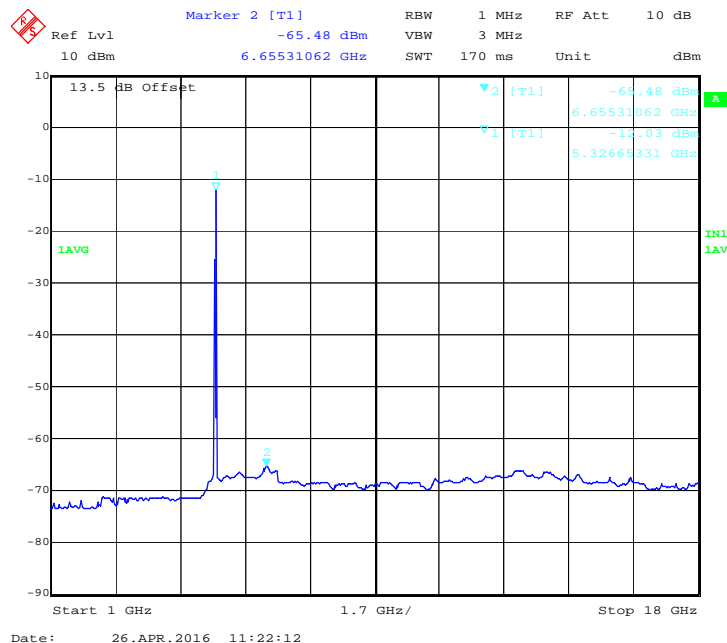


Figure 100: 40 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5320 MHz

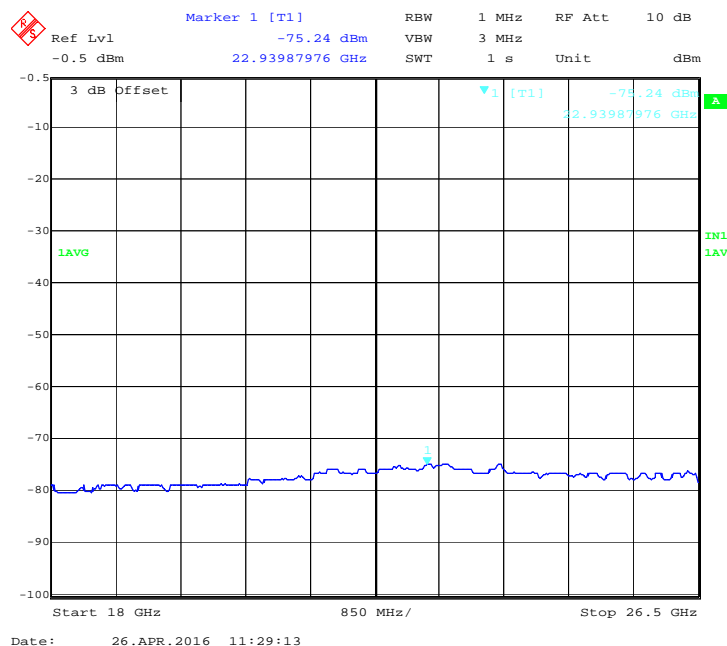
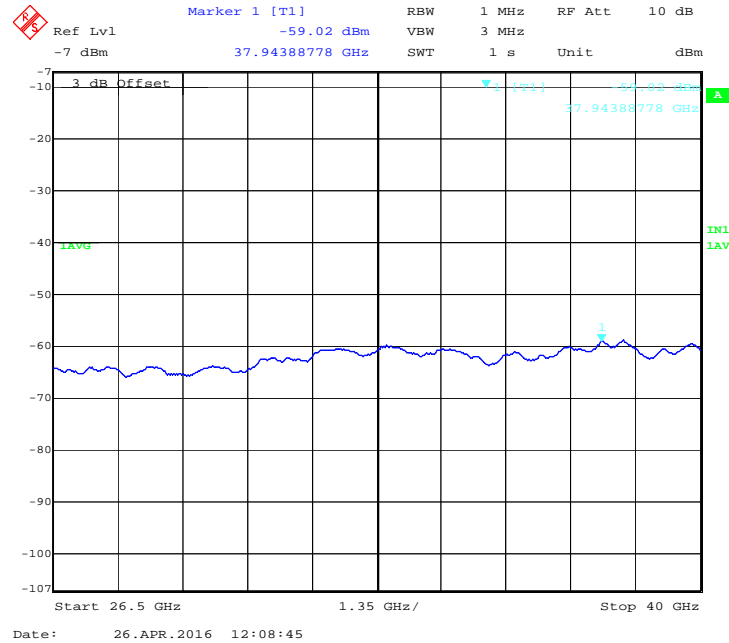
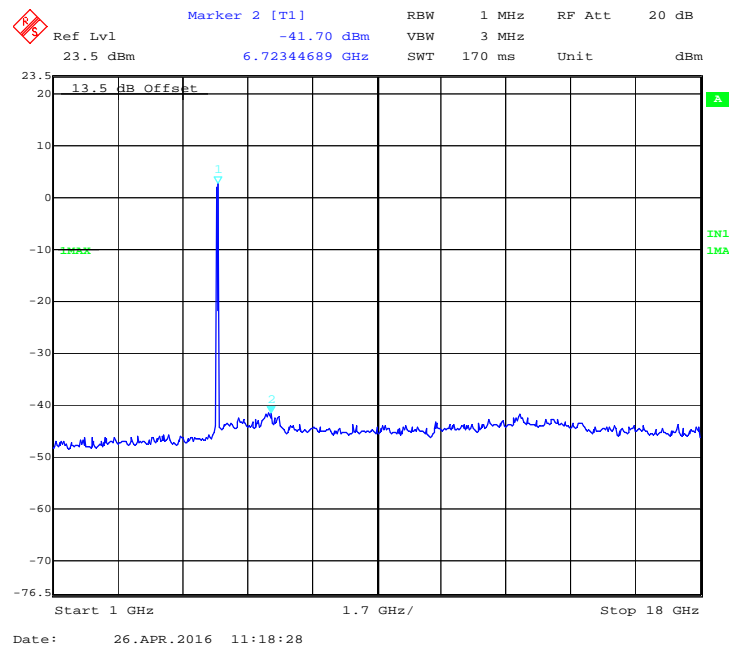


Figure 101: 40 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5320 MHz



**Figure 102: 40 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5320 MHz**



**Figure 103: 40 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5320 MHz**

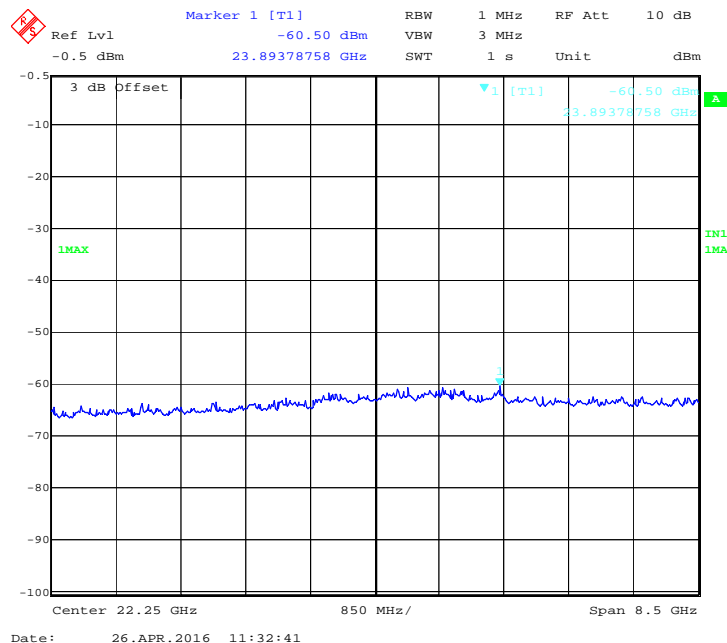


Figure 104: 40 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 -5320 MHz

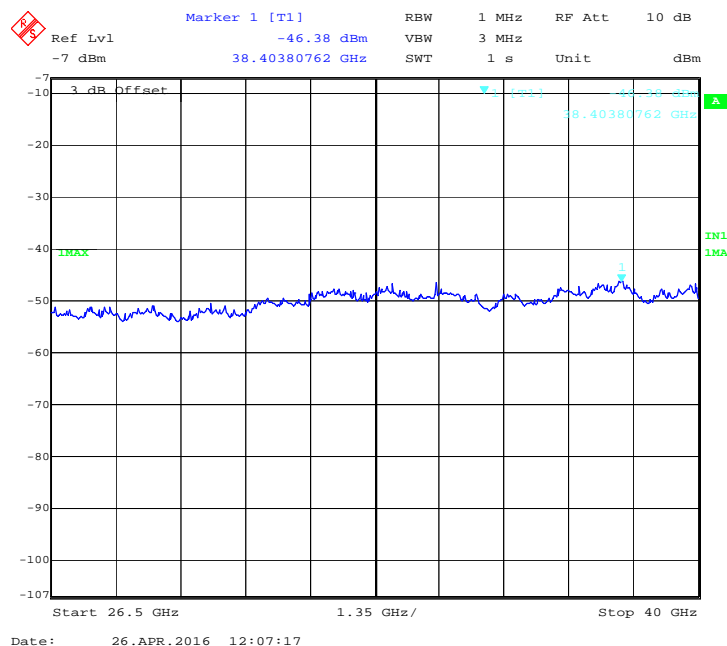
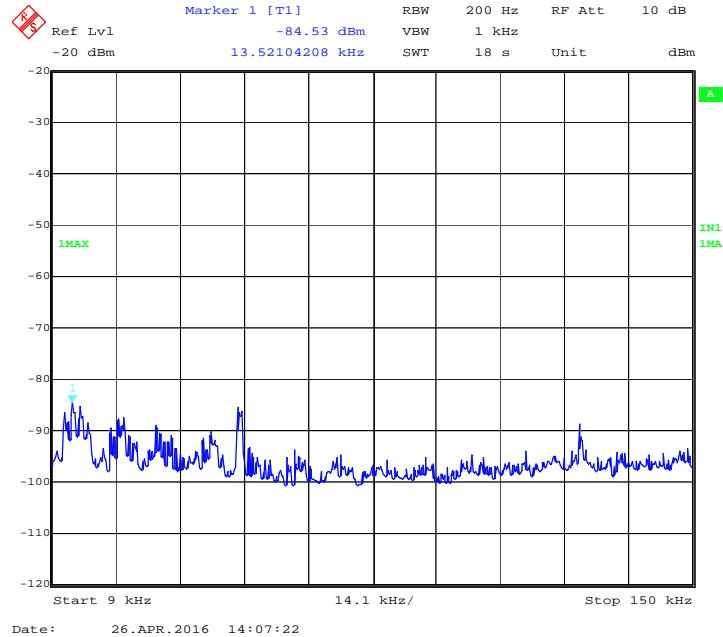
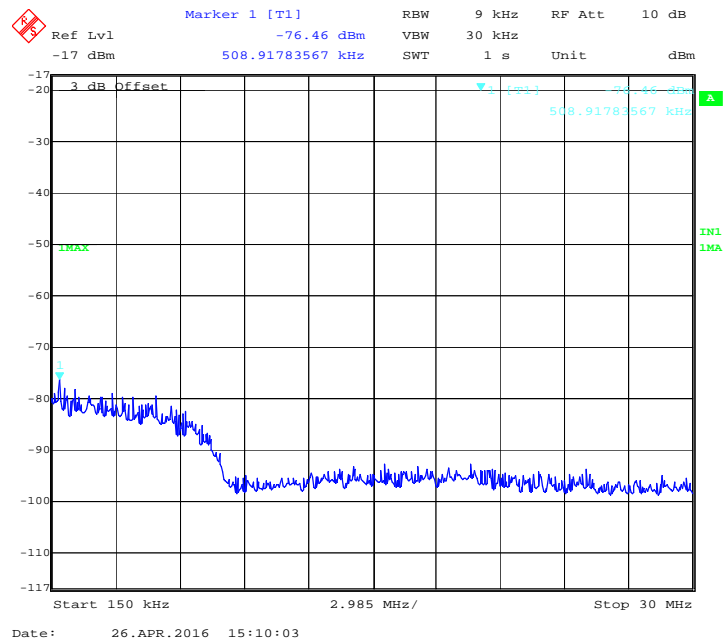


Figure 105: 40 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 -5320 MHz



**Figure 106: 10 MHz, 17 dBi, Low channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 -5265 MHz**



**Figure 107: 10 MHz, 17 dBi, Low channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 -5265 MHz**



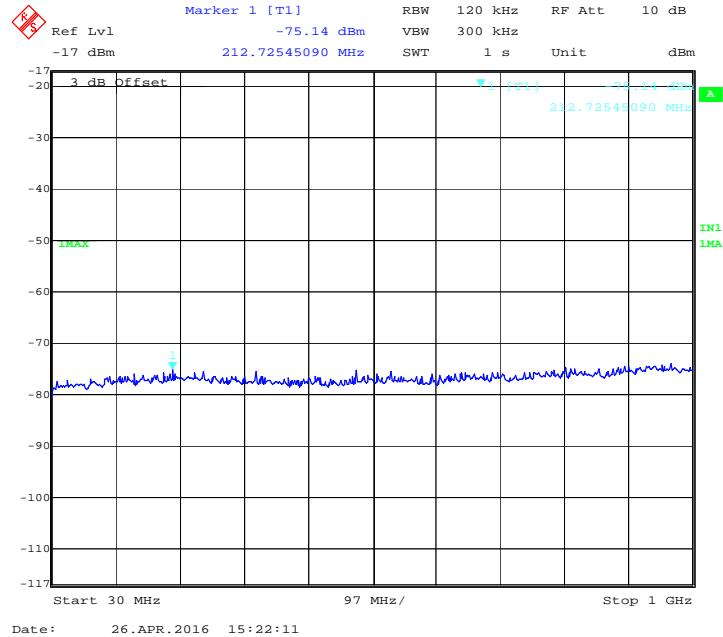


Figure 108: 10 MHz, 17 dBi, Low channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 –5265 MHz

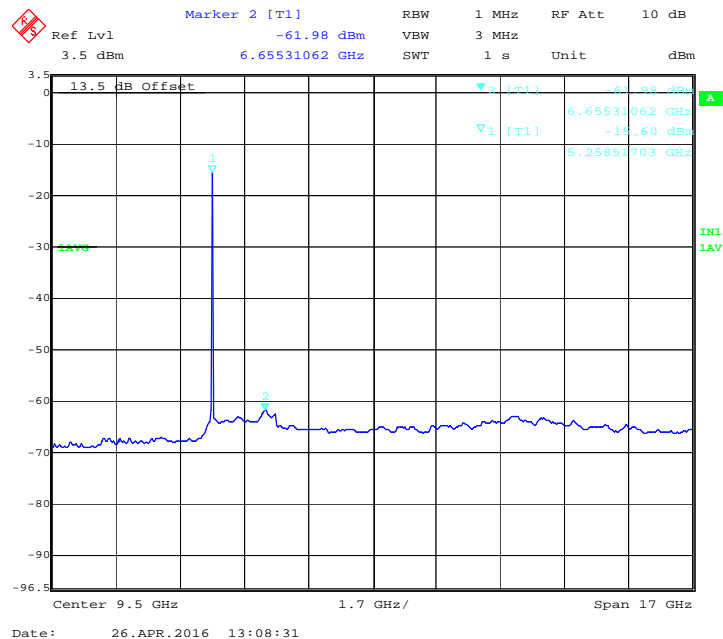


Figure 109: 10 MHz, 17 dBi, Low channel: Average emission from 1 GHz to 18 GHz at Ch. 0 –5265 MHz

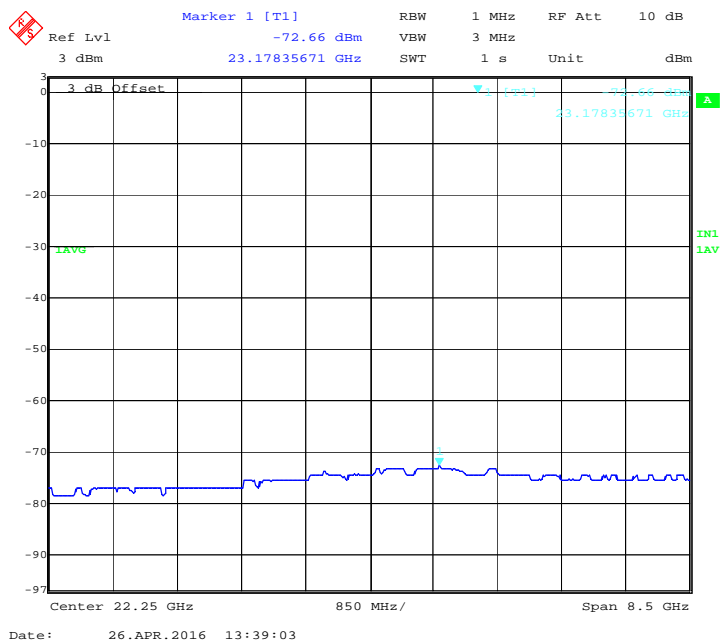


Figure 110: 10 MHz, 17 dBi, Low channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 -5265 MHz

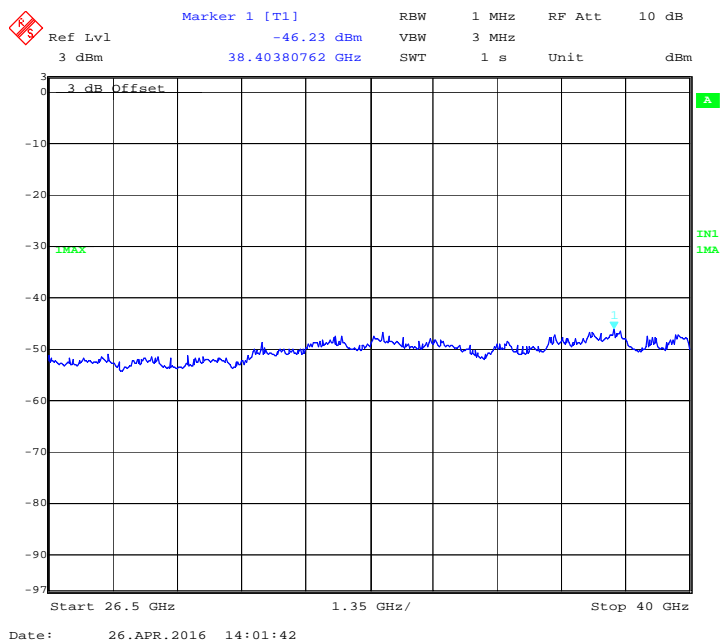


Figure 111: 10 MHz, 17 dBi, Low channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 -5265 MHz

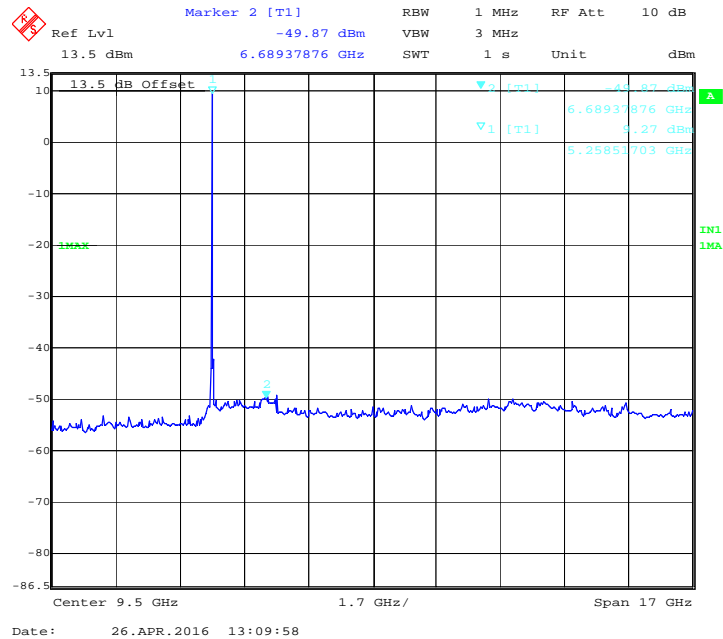


Figure 112: 10 MHz, 17 dBi, Low channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 -5265 MHz

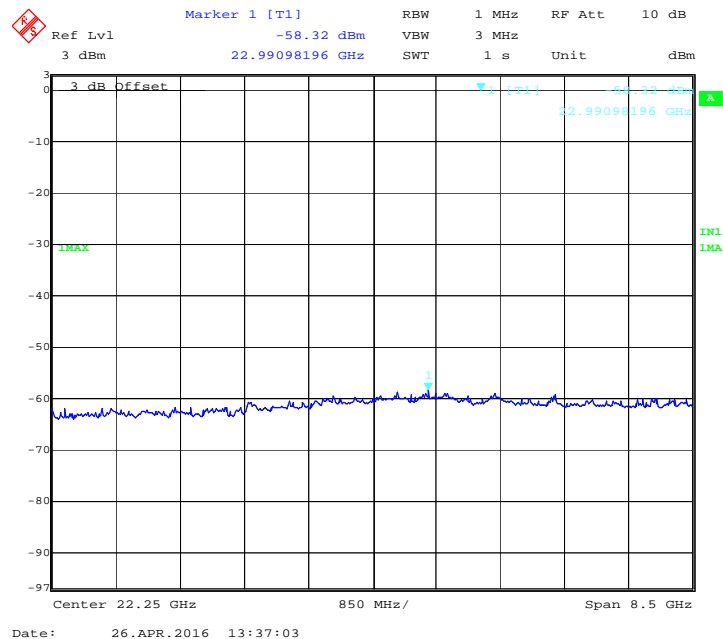


Figure 113: 10 MHz, 17 dBi, Low channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 -5265 MHz

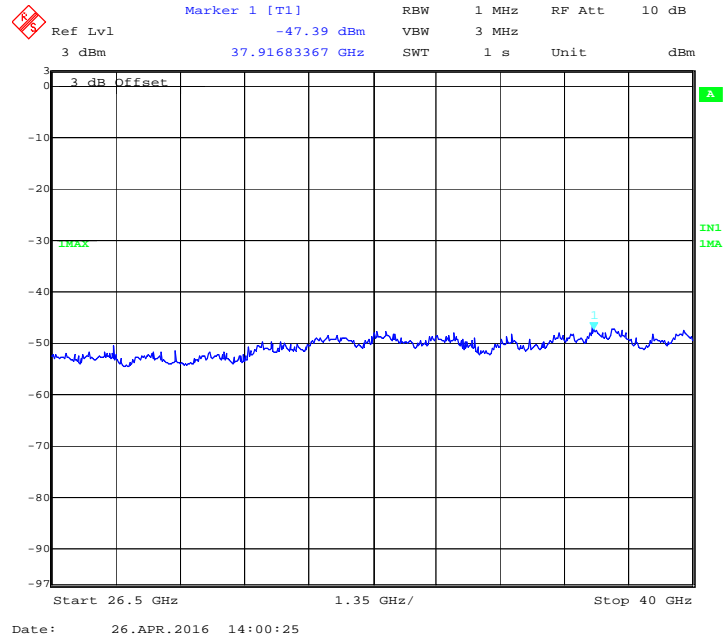


Figure 114: 10 MHz, 17 dBi, Low channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 -5265 MHz

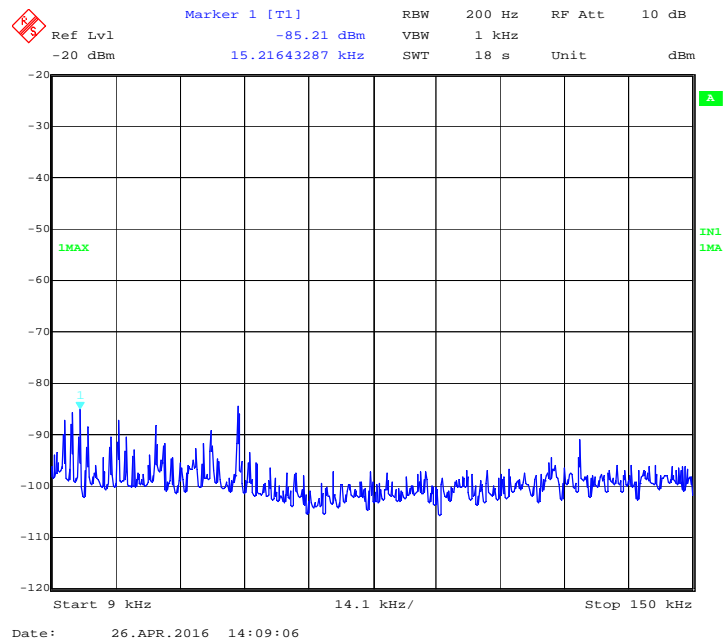


Figure 115: 10 MHz, 17 dBi, Low channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 -5265 MHz

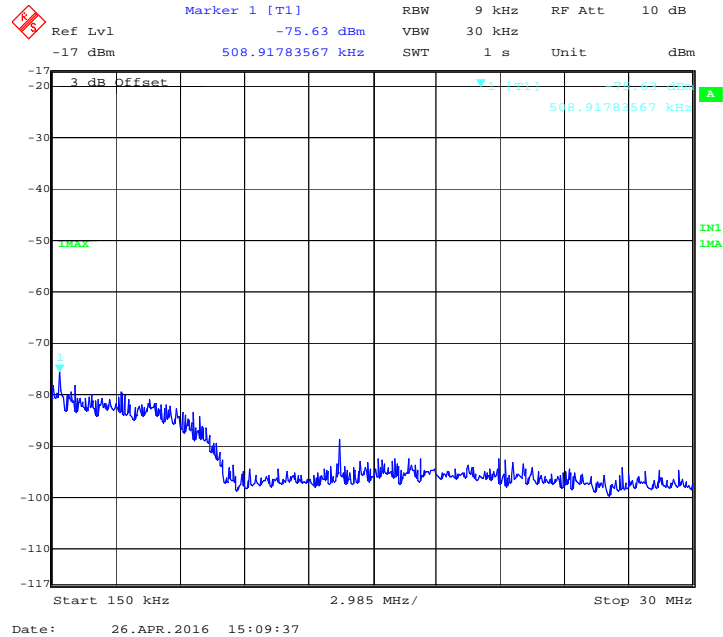


Figure 116: 10 MHz, 17 dBi, Low channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 -5265 MHz

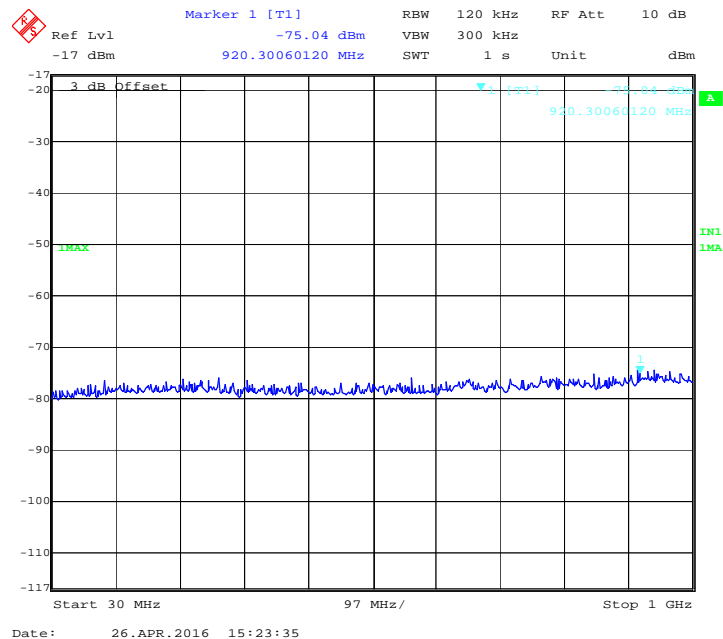


Figure 117: 10 MHz, 17 dBi, Low channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 -5265 MHz

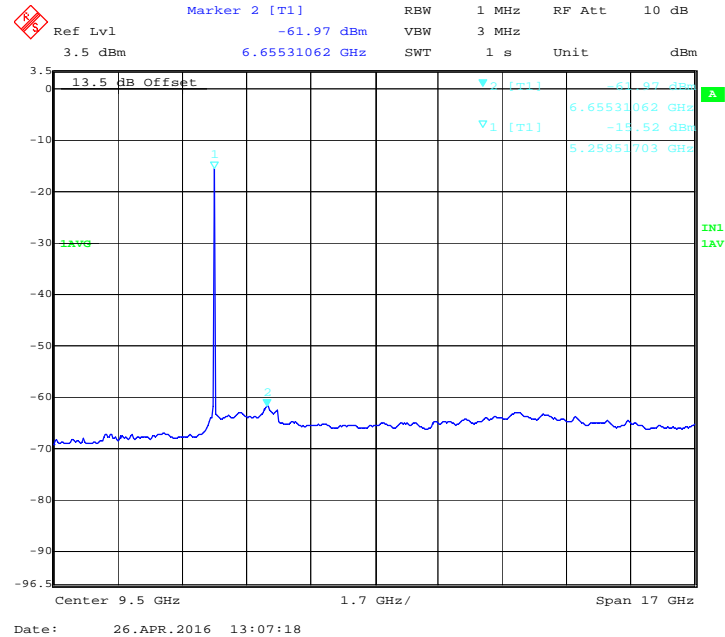


Figure 118: 10 MHz, 17 dB, Low channel: Average emission from 1 GHz to 18 GHz at Ch. 1 -5265 MHz

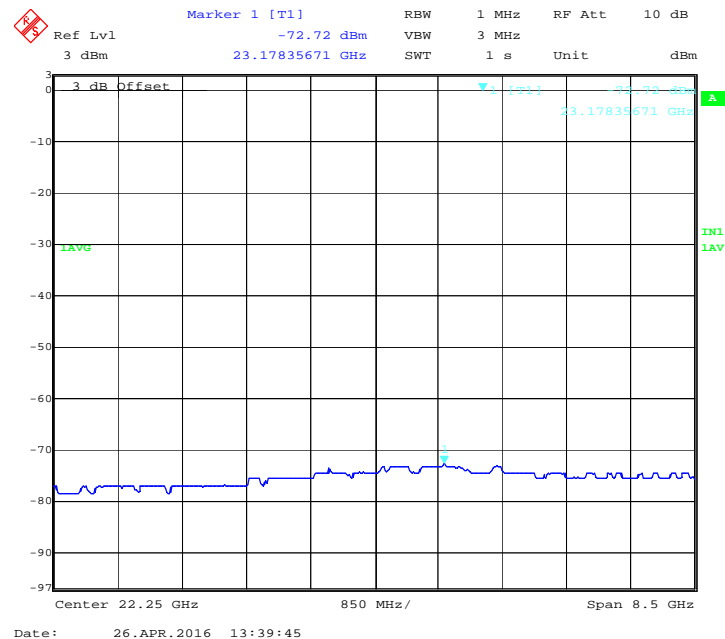


Figure 119: 10 MHz, 17 dB, Low channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 -5265 MHz

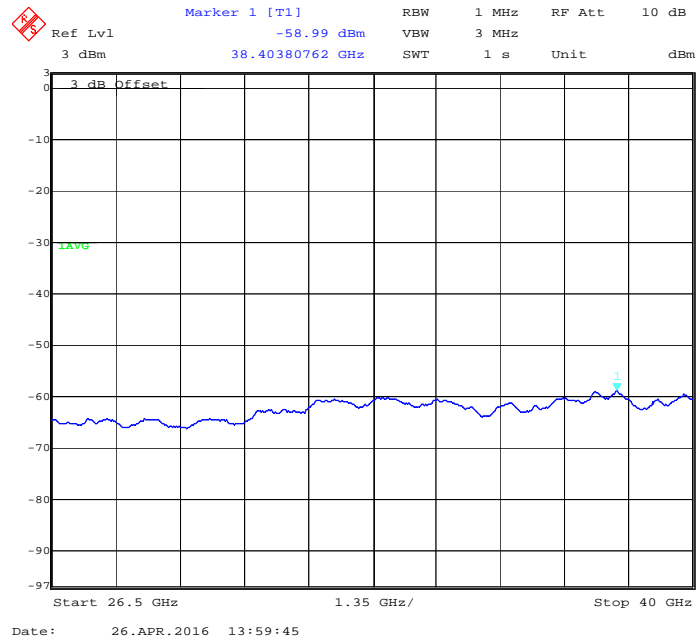


Figure 120: 10 MHz, 17 dBi, Low channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5265 MHz

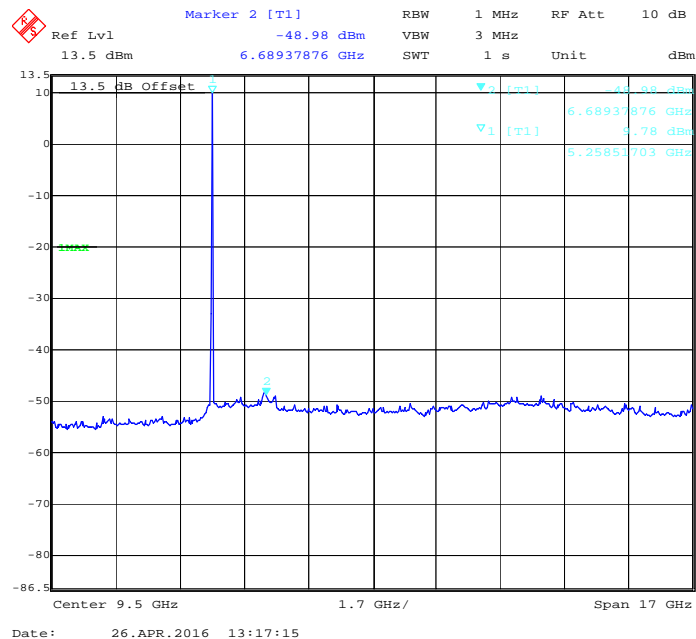
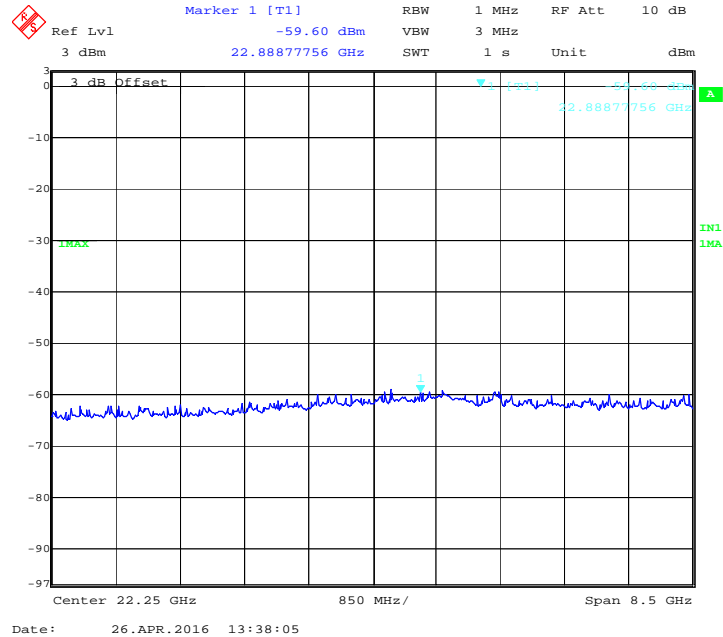
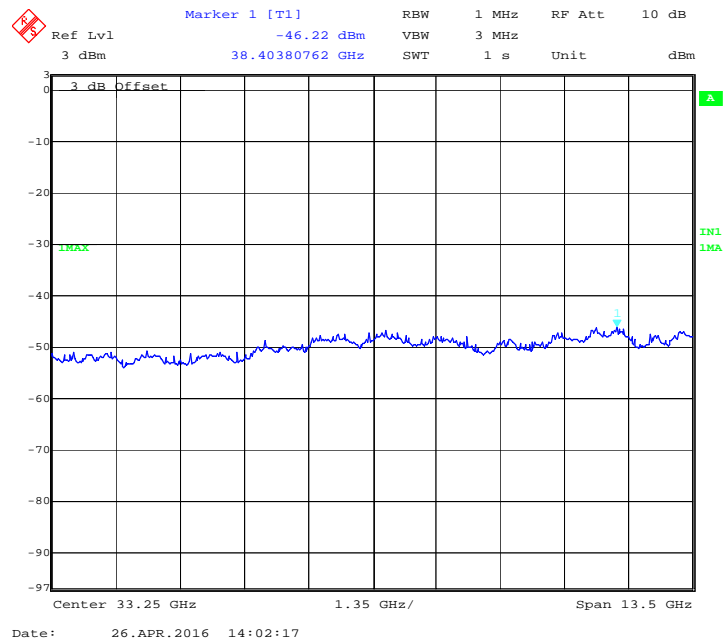


Figure 121: 10 MHz, 17 dBi, Low channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5265 MHz



**Figure 122: 10 MHz, 17 dBi, Low channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 –5265 MHz**



**Figure 123: 10 MHz, 17 dBi, Low channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 –5265 MHz**



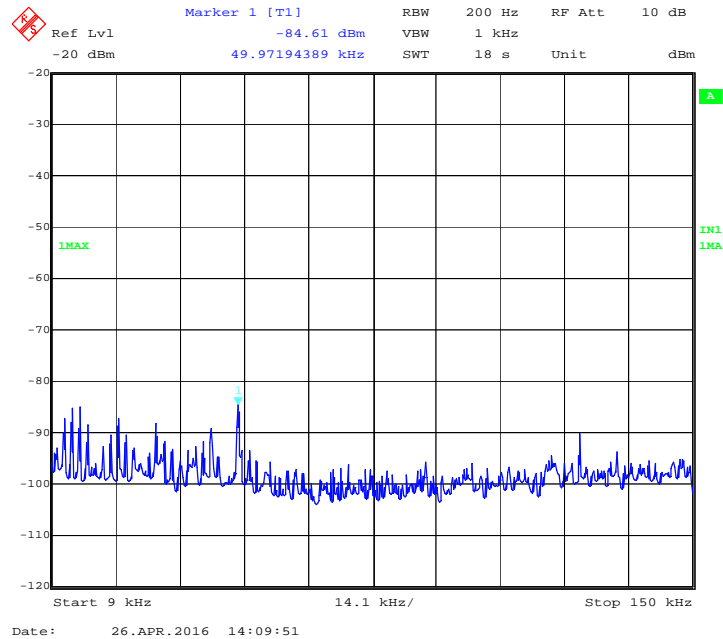


Figure 124: 10 MHz, 17 dBi, Mid channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 –5300 MHz

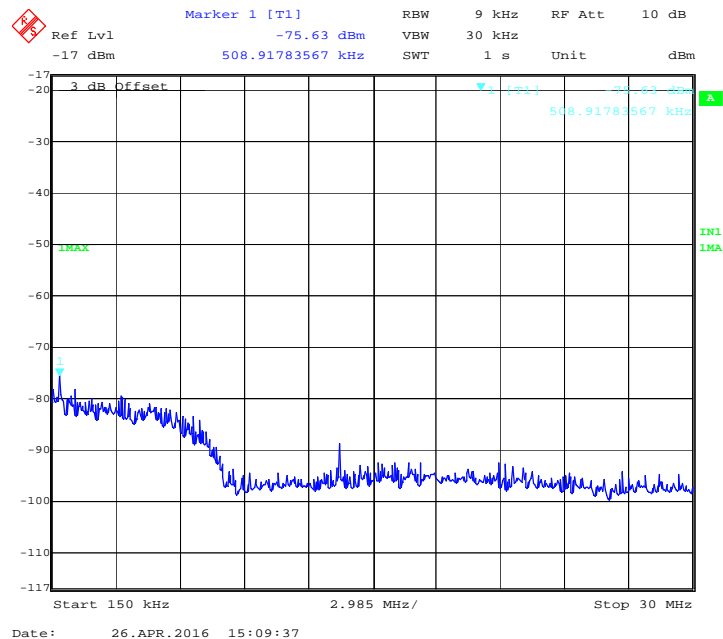


Figure 125: 10 MHz, 17 dBi, Mid channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 –5300 MHz

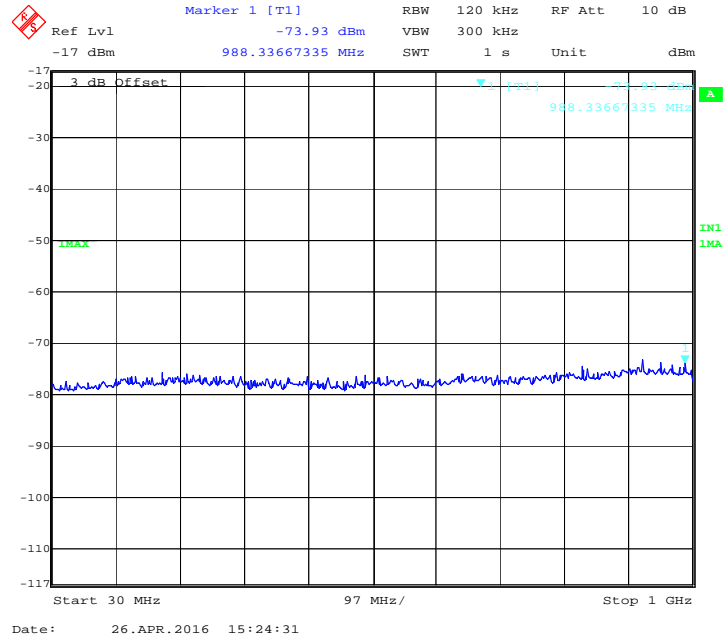


Figure 126: 10 MHz, 17 dBi, Mid channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 -5300 MHz

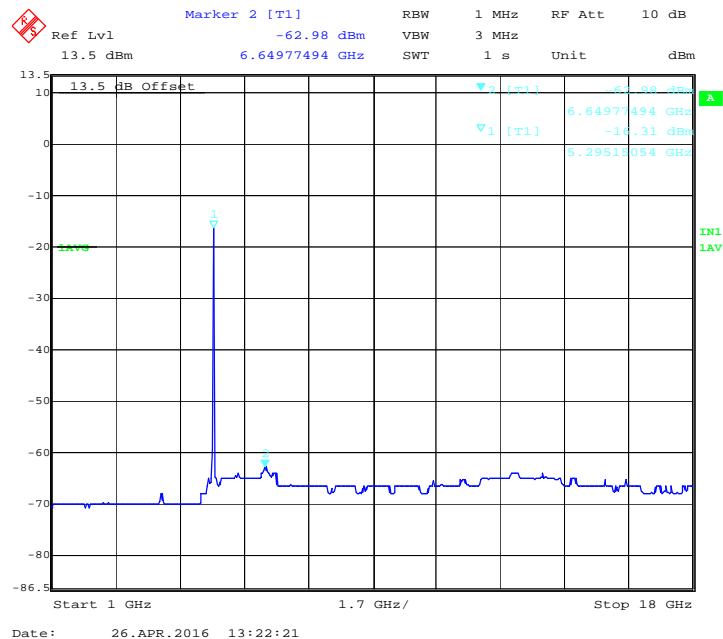


Figure 127: 10 MHz, 17 dBi, Mid channel: Average emission from 1 GHz to 18 GHz at Ch. 0 -5300 MHz

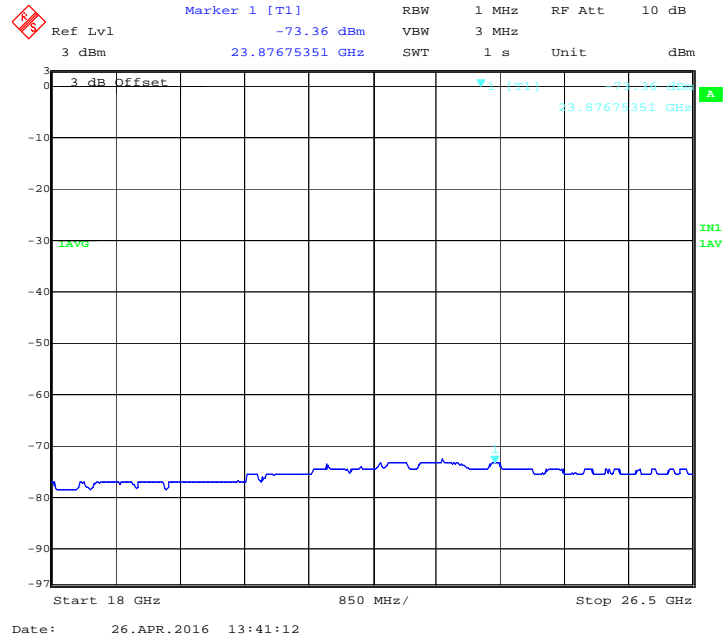


Figure 128: 10 MHz, 17 dBi, Mid channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 -5300 MHz

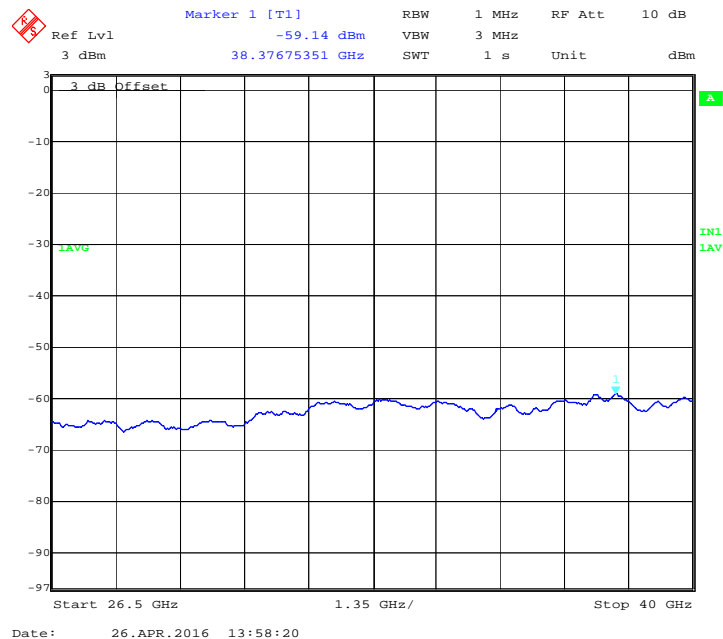


Figure 129: 10 MHz, 17 dBi, Mid channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 -5300 MHz

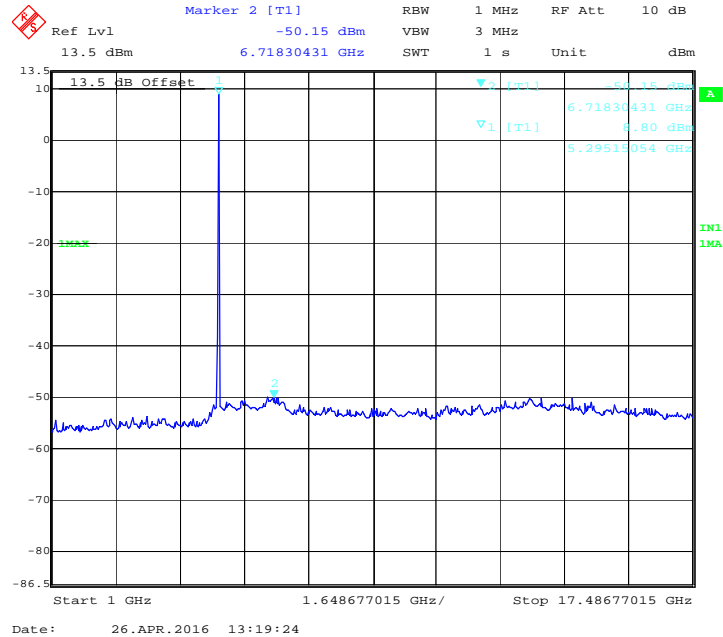


Figure 130: 10 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 -5300 MHz

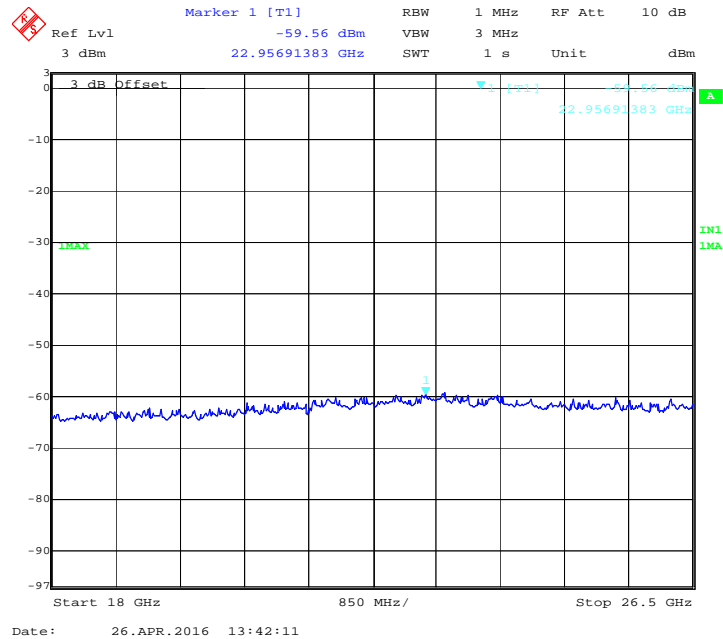


Figure 131: 10 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 -5300 MHz

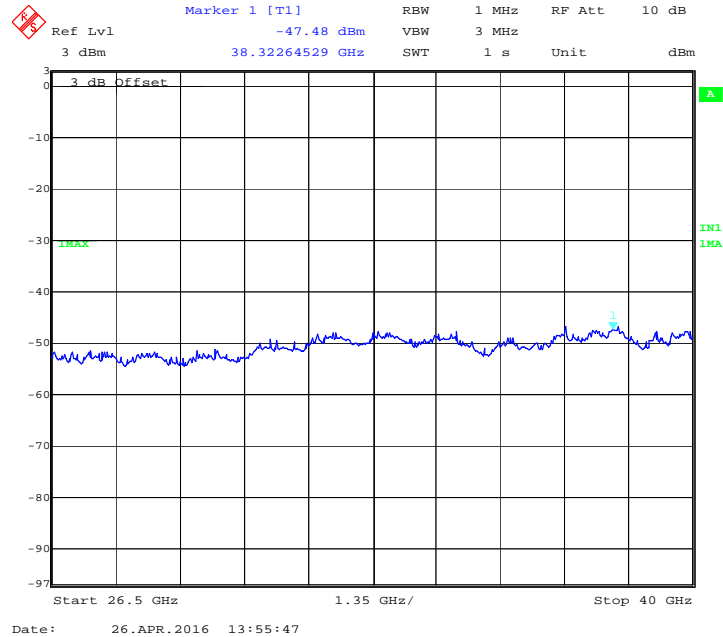


Figure 132: 10 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 -5300 MHz

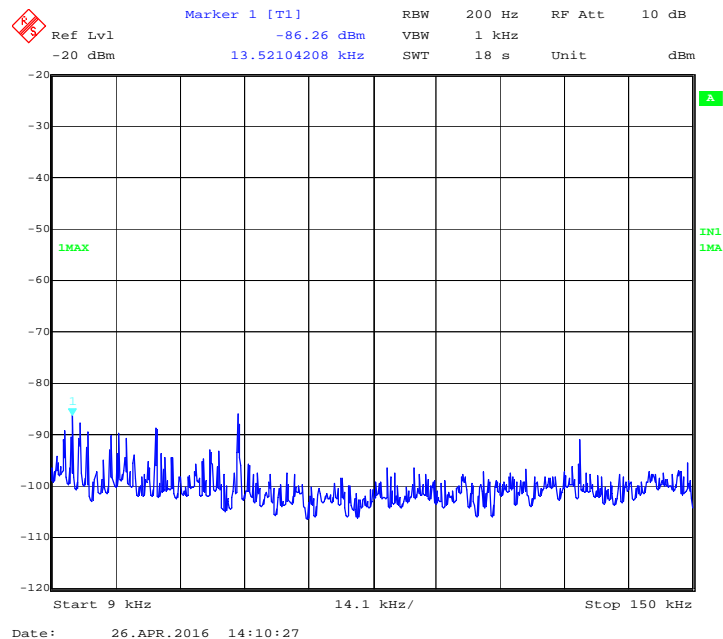


Figure 133: 10 MHz, 17 dBi, Mid channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 -5300 MHz

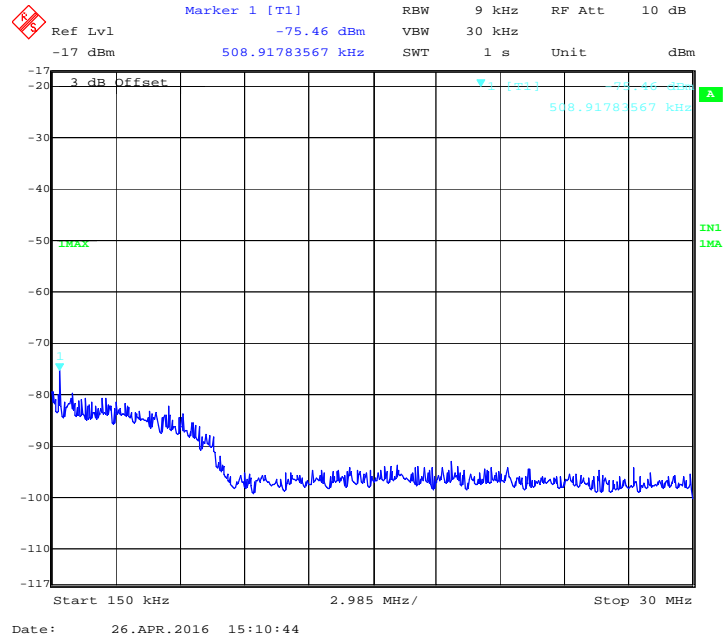


Figure 134: 10 MHz, 17 dBi, Mid channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 -5300 MHz

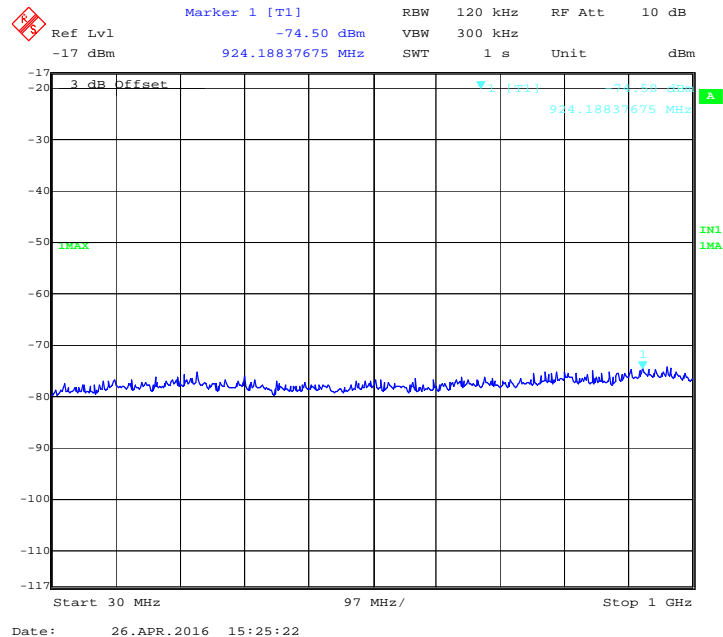


Figure 135: 10 MHz, 17 dBi, Mid channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 -5300 MHz

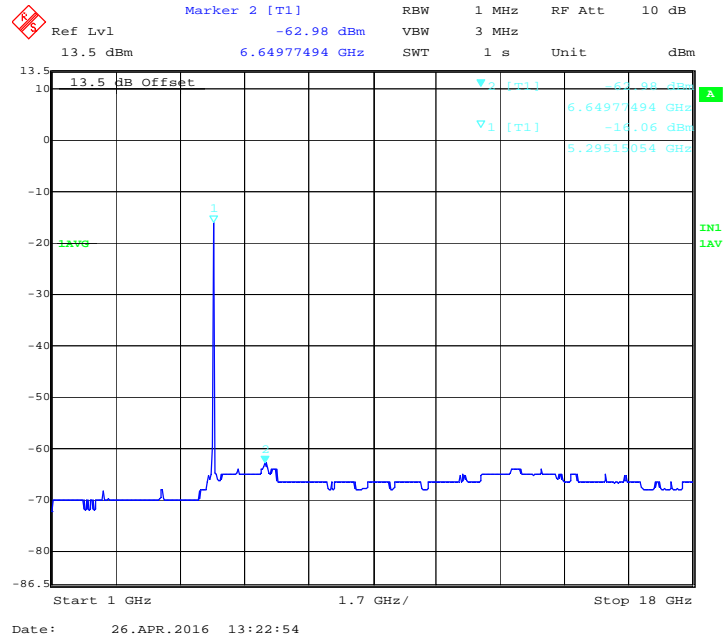


Figure 136: 10 MHz, 17 dBi, Mid channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5300 MHz

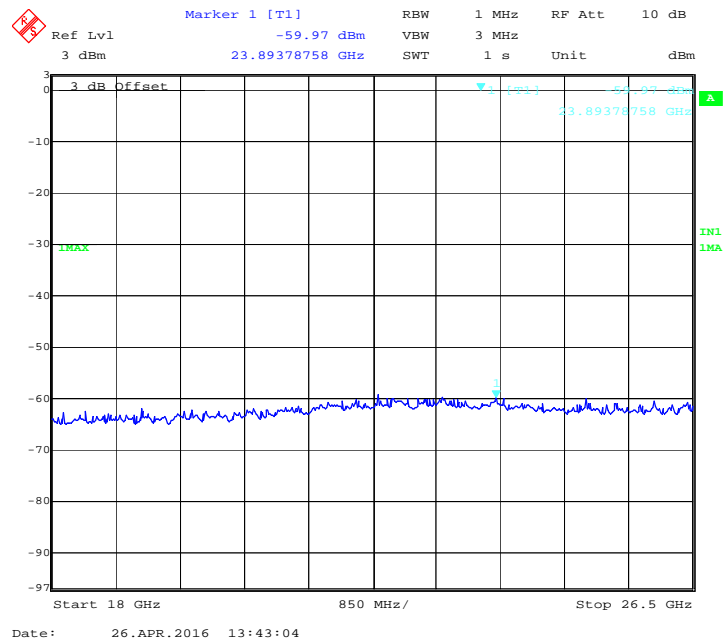


Figure 137: 10 MHz, 17 dBi, Mid channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5300 MHz

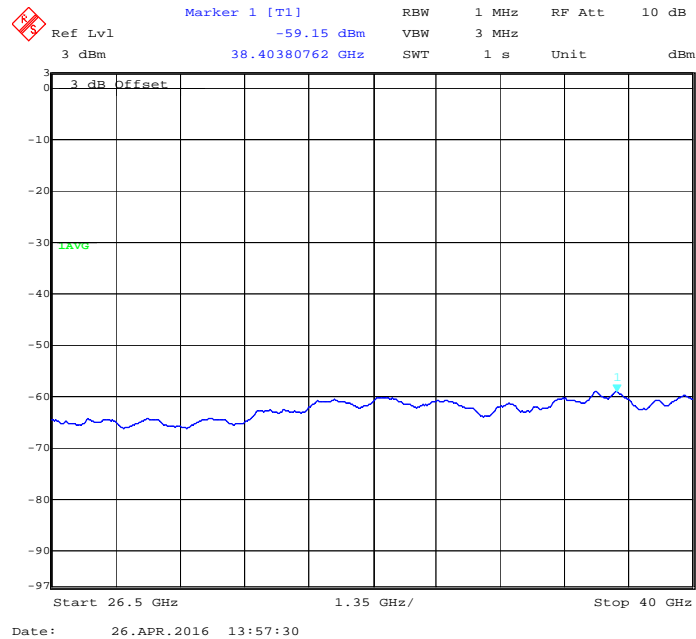


Figure 138: 10 MHz, 17 dBi, Mid channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5300 MHz

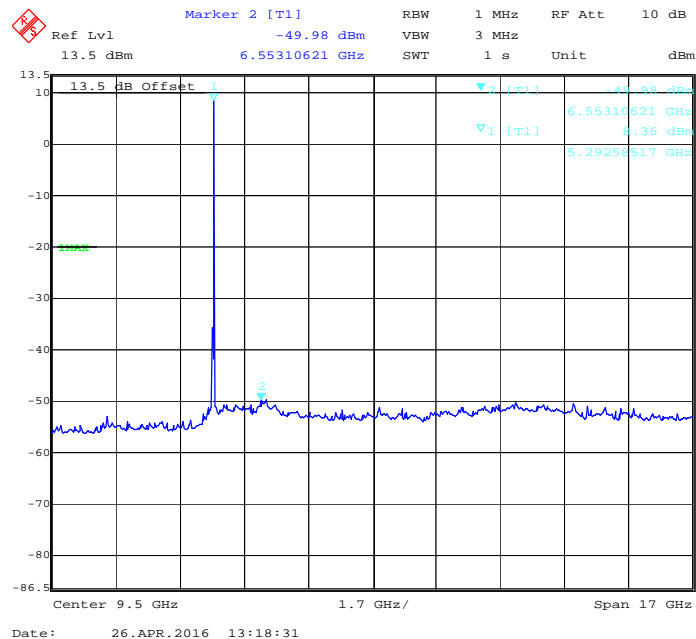
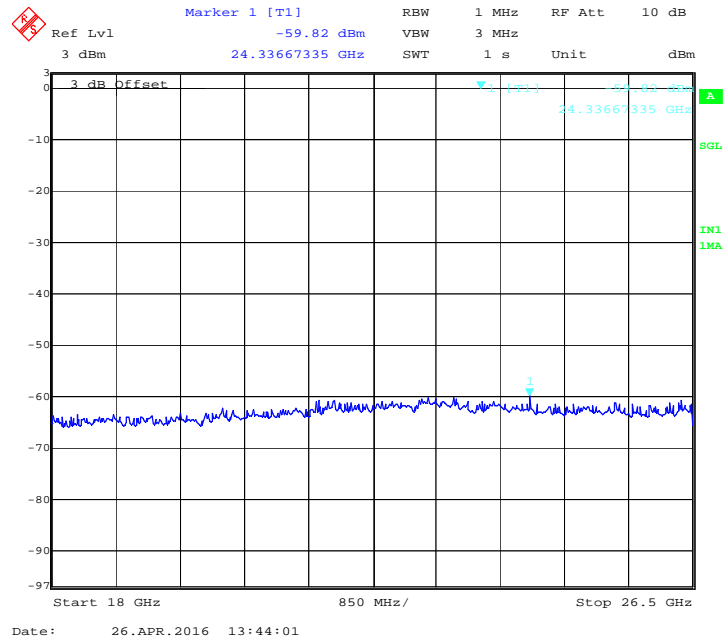
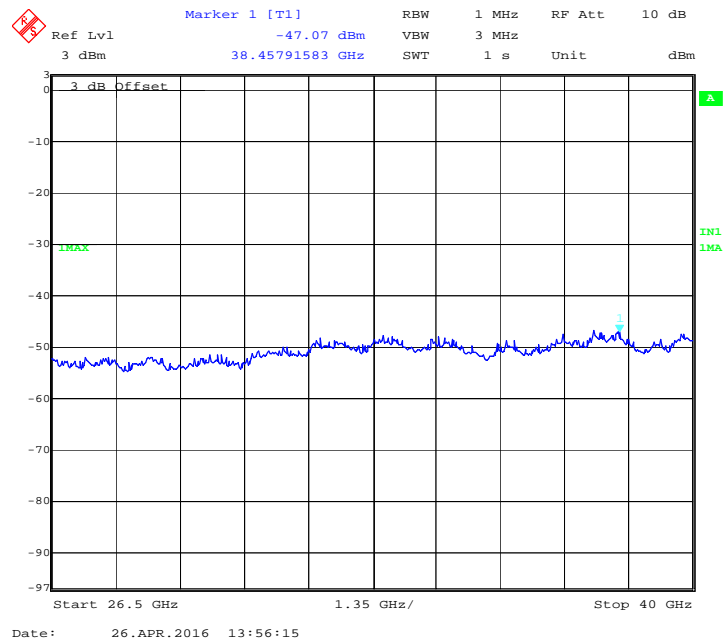


Figure 139: 10 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5300 MHz

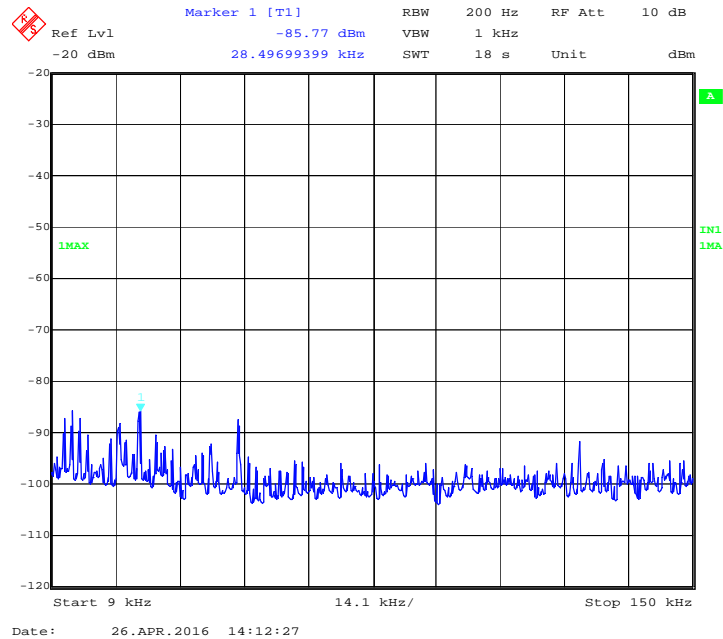




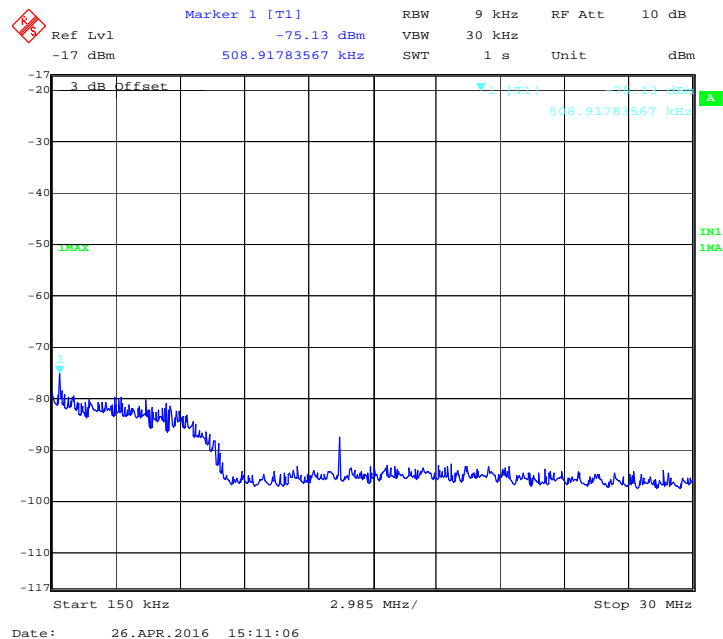
**Figure 140: 10 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 -5300 MHz**



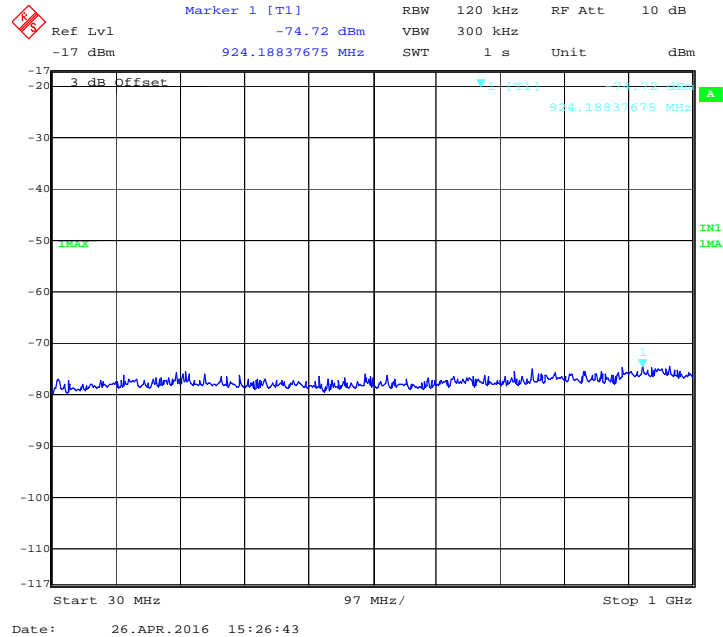
**Figure 141: 10 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 -5300 MHz**



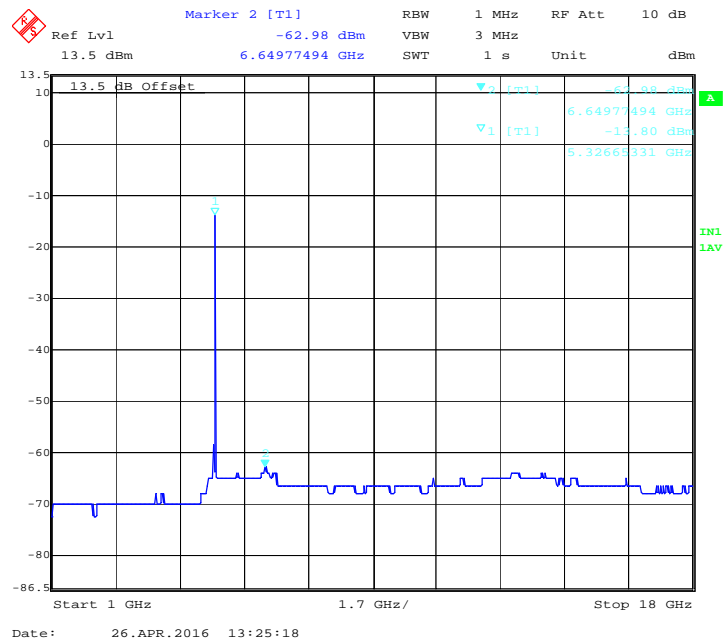
**Figure 142: 10 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 -5335 MHz**



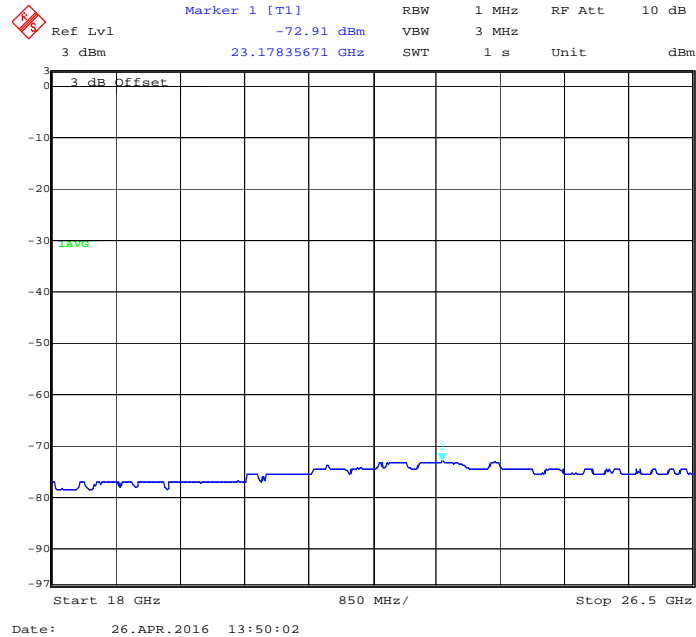
**Figure 143: 10 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 -5335 MHz**



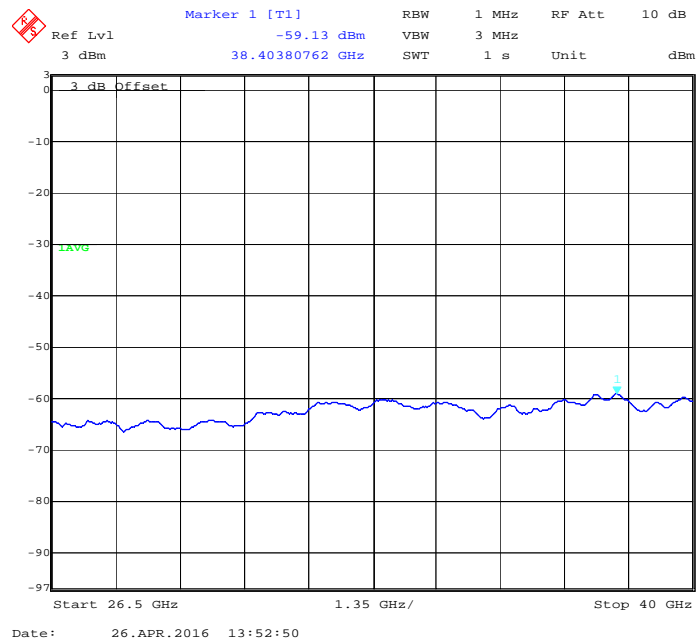
**Figure 144: 10 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 -5335 MHz**



**Figure 145: 10 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 0 -5335 MHz**



**Figure 146: 10 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5335 MHz**



**Figure 147: 10 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5335 MHz**

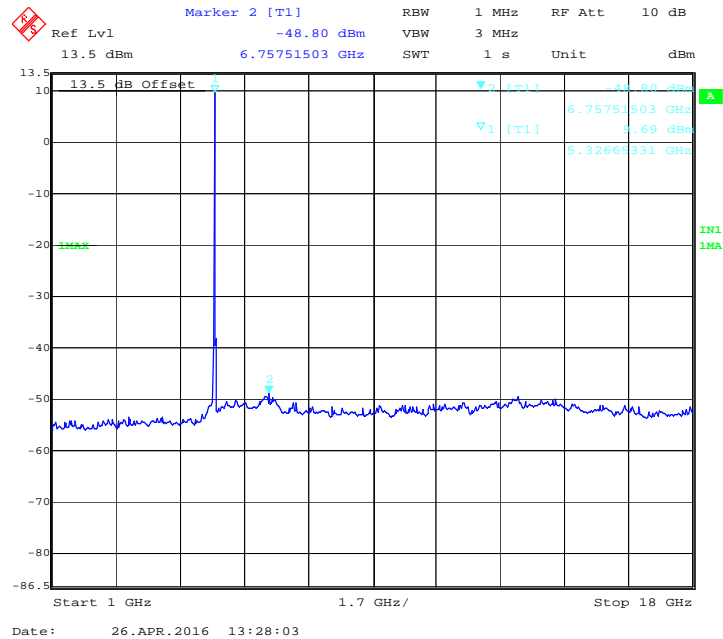


Figure 148: 10 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 -5335 MHz

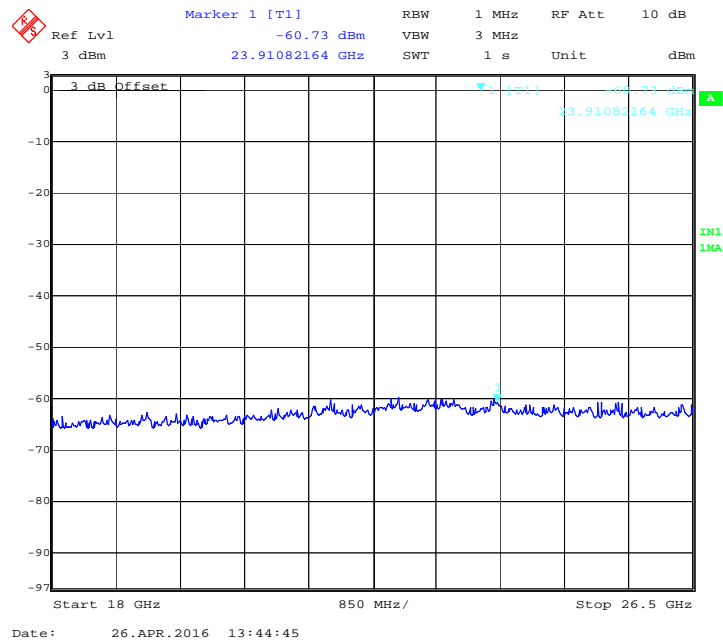


Figure 149: 10 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 -5335 MHz

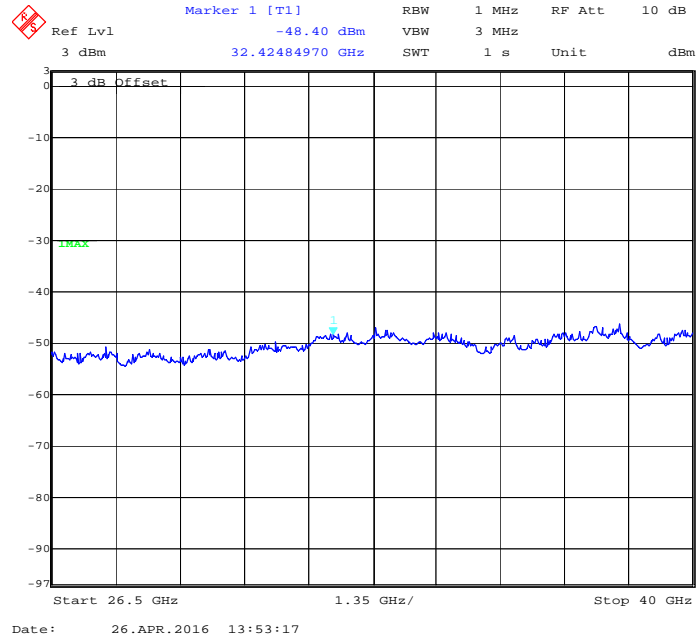


Figure 150: 10 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 -5335 MHz

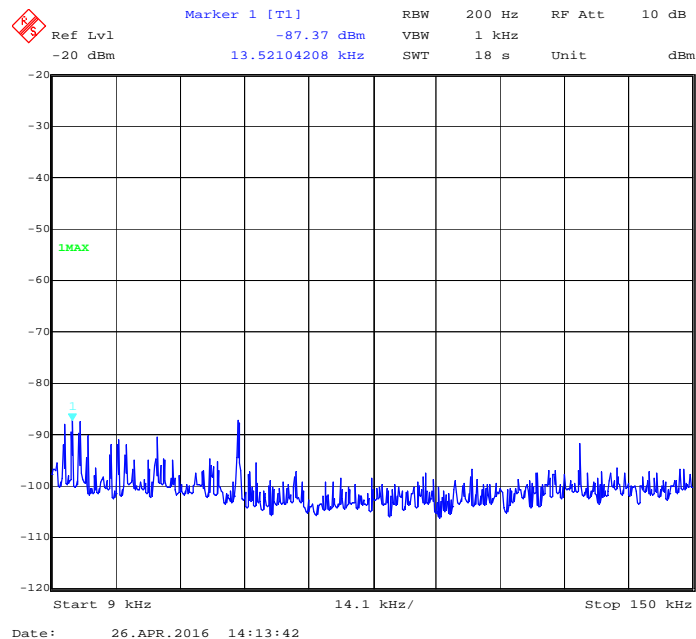


Figure 151: 10 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 -5335 MHz

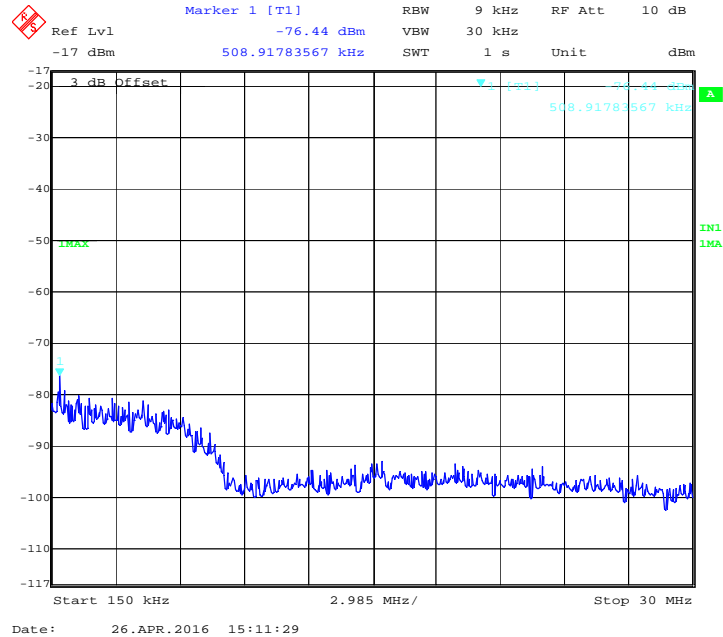


Figure 152: 10 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 -5335 MHz

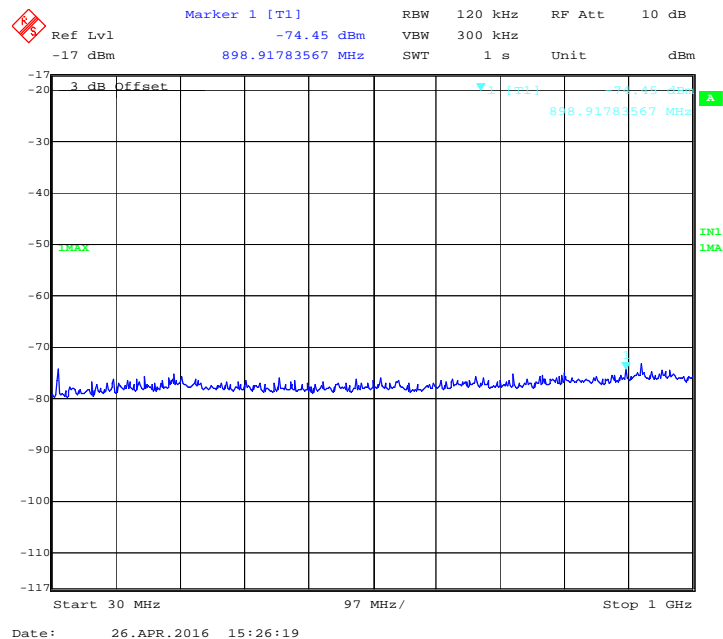


Figure 153: 10 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 -5335 MHz

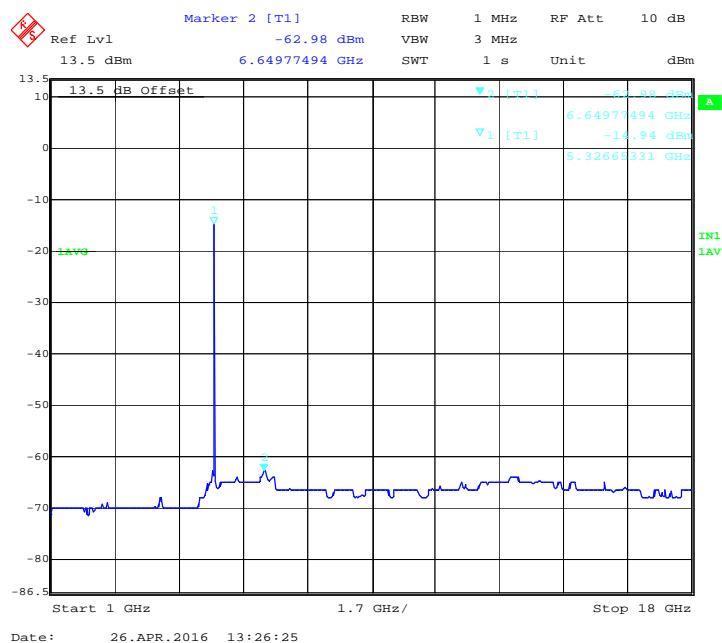


Figure 154: 10 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 1 -5335 MHz

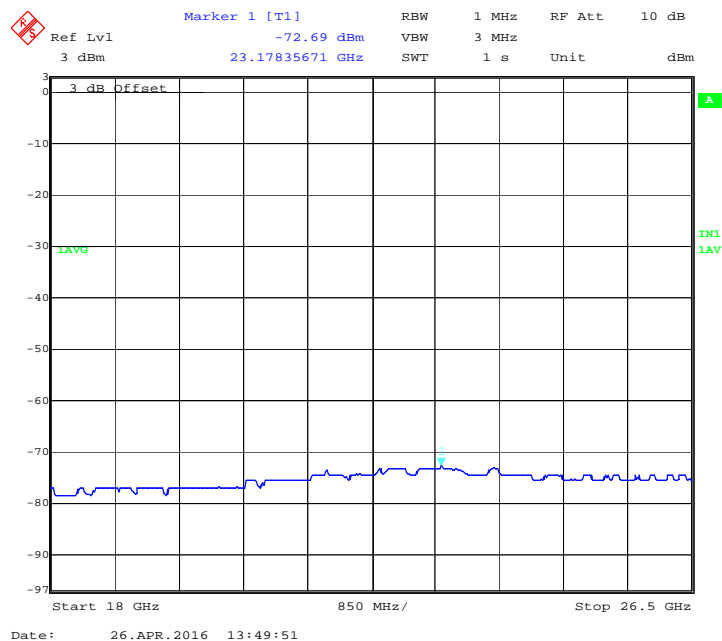


Figure 155: 10 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 -5335 MHz



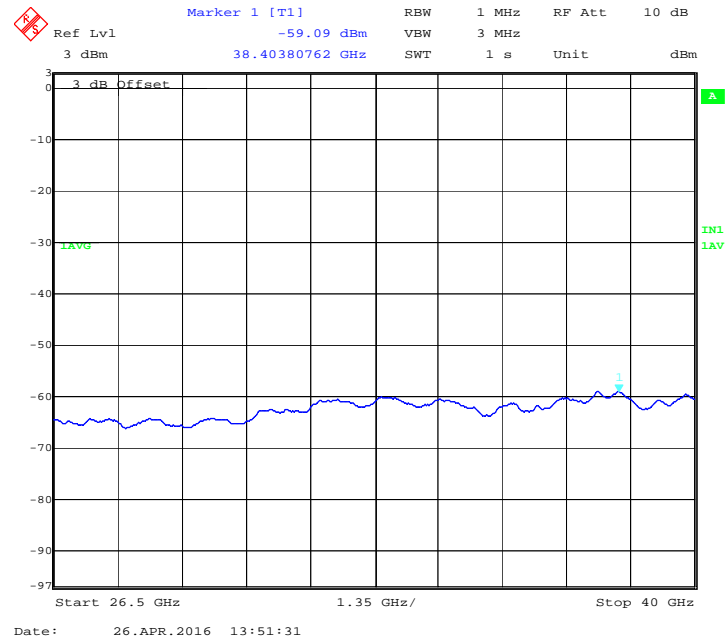


Figure 156: 10 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5335 MHz

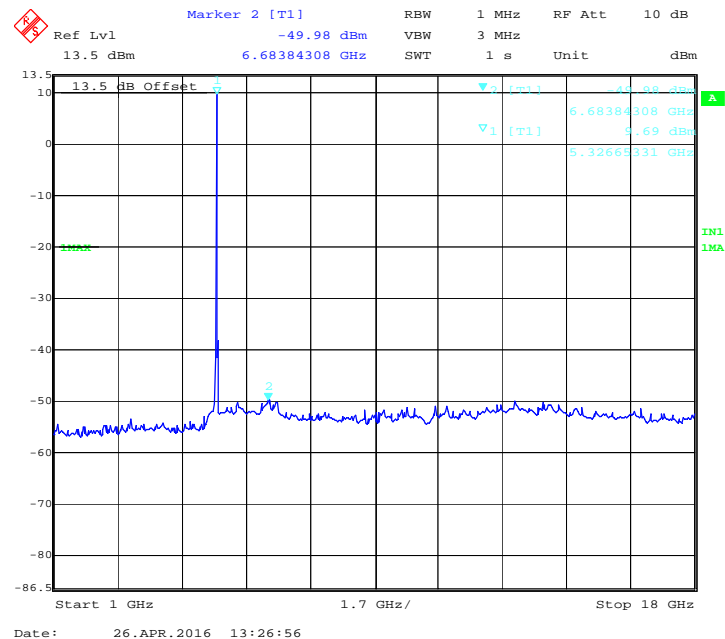
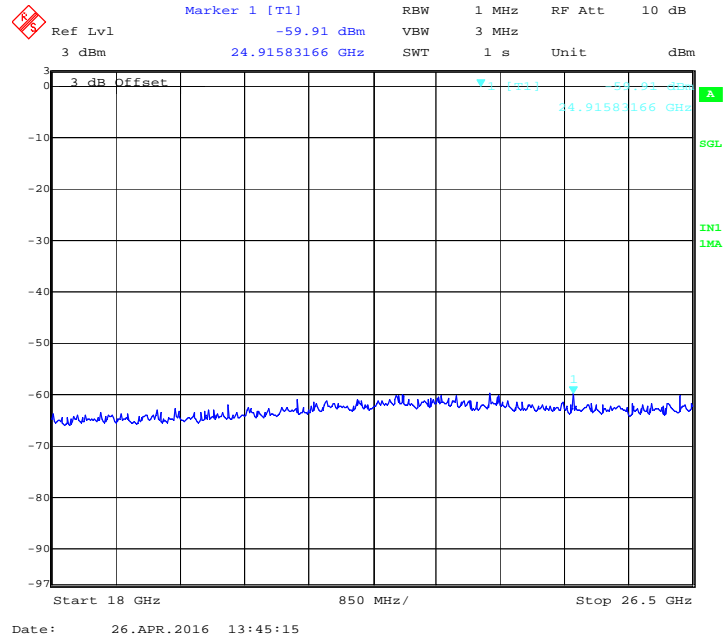
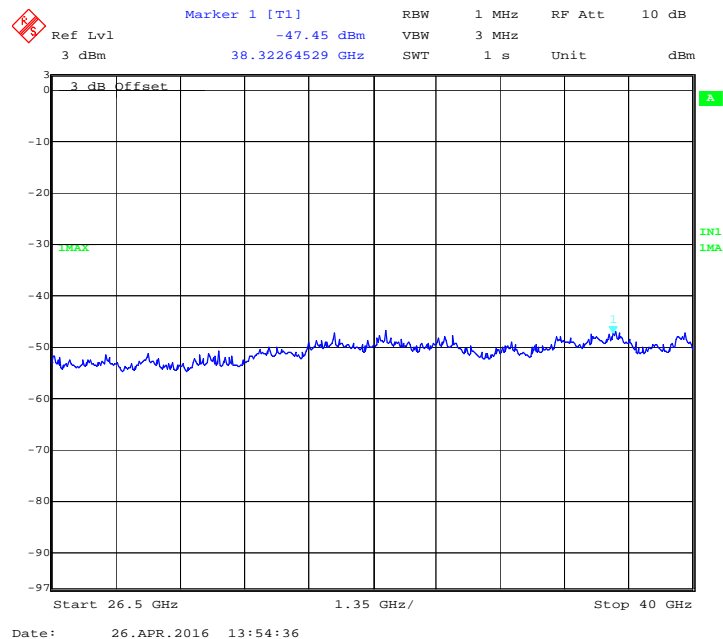


Figure 157: 10 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5335 MHz



**Figure 158: 10 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 -5335 MHz**



**Figure 159: 10 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 -5335 MHz**

### 5.3.6.6 RESULT

Conducted RF emission is within the restricted band of operation limit specified. Refer below table for consolidated data.

Channel	Detector	Freq.	Ch. 0	Freq.	Ch. 1	Ant Gain	EIRP + GRF Ch. 0	EIRP + GRF Ch. 1	Ch. 0 + Ch. 1	E	Limit	Margin
	(PK/AVG)	(Hz)	(dBm)	(Hz)	(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBμV/m)		(dB)
Low	PK	49.97k	-87.71	49.97k	-87.71	17.00	-64.71	-64.71	-61.70	33.56	120.52	-86.96
	PK	20.04M	-67.57	20.01M	-66.52	17.00	-44.57	-43.52	-41.00	54.25	69.54	-15.29
	PK	30M	-71.76	30M	-69.30	17.00	-50.06	-47.60	-45.65	49.61	69.54	-19.93
	AVG	6.655G	-62.79	6.92G	-63.48	17.00	-45.79	-46.48	-43.11	52.15	80.00	-27.85
	AVG	22.95G	-73.43	22.95G	-73.43	17.00	-56.43	-56.43	-53.42	41.84	54.00	-12.16
	AVG	38.4G	-59.14	38.4G	-59.15	17.00	-42.14	-42.15	-39.13	56.12	80.00	-23.88
	PK	6.55G	-41.06	6.82G	-41.00	17.00	-24.06	-24.00	-21.02	74.24	80.00	-5.76
	PK	23.16G	-62.03	23.07G	-60.12	17.00	-45.03	-43.12	-40.96	54.30	74.00	-19.70
	PK	38.5G	-46.10	39.83G	-47.02	17.00	-29.10	-30.02	-26.53	68.73	80.00	-11.27
Mid	PK	16.62k	-71.31	16.62k	-71.31	17.00	-48.31	-48.31	-45.30	49.96	120.52	-70.56
	PK	20.01M	-65.83	20.01M	-67.45	17.00	-42.83	-44.45	-40.55	54.70	69.54	-14.84
	PK	30M	-69.65	30M	-71.46	17.00	-47.95	-49.76	-45.75	49.51	69.54	-20.03
	AVG	6.292G	-62.98	6.689G	-62.70	17.00	-45.98	-45.70	-42.83	52.43	80.00	-27.57
	AVG	23.19G	-74.17	23.17G	-73.33	17.00	-57.17	-56.33	-53.72	41.54	54.00	-12.46
	AVG	37.97G	-59.19	37.94G	-59.18	17.00	-42.19	-42.18	-39.17	56.08	80.00	-23.92
	PK	6.7G	-41.45	6.75G	-36.39	17.00	-24.45	-19.39	-18.21	77.05	80.00	-2.95
	PK	22.54G	-61.09	23.21G	-60.79	17.00	-44.09	-43.79	-40.93	54.33	74.00	-19.67
	PK	38.5G	-47.21	38.43G	-46.69	17.00	-30.21	-29.69	-26.93	68.33	80.00	-11.67
High	PK	16.62k	-71.41	16.62k	-71.37	17.00	-48.41	-48.37	-45.38	49.88	120.52	-70.64
	PK	20.01M	-67.08	20.01M	-67.08	17.00	-44.08	-44.08	-41.07	54.19	69.54	-15.35
	PK	30M	-69.12	30M	-67.99	17.00	-47.42	-55.69	-46.82	48.44	69.54	-21.10
	AVG	6.655G	-65.47	6.655G	-65.48	17.00	-48.47	-48.48	-45.46	49.79	80.00	-30.21
	AVG	23.17G	-74.24	22.93G	-75.24	17.00	-57.24	-58.24	-54.70	40.56	54.00	-13.44
	AVG	38.4G	-59.00	37.94G	-59.02	17.00	-42.00	-42.02	-39.00	56.26	80.00	-23.74
	PK	6.58G	-41.88	6.72G	-41.70	17.00	-24.88	-24.70	-21.78	73.48	80.00	-6.52
	PK	23.24G	-61.00	23.89G	-60.50	17.00	-44.00	-43.50	-40.73	54.53	74.00	-19.47
	PK	38.43G	-46.69	38.4G	-46.38	17.00	-29.69	-29.38	-26.52	68.74	80.00	-11.26

Table 12: Result for 17 dBi configuration – 40 MHz modulation bandwidth

Channel	Detector	Freq.	Ch. 0	Freq.	Ch. 1	Ant Gain	EIRP + GRF Ch. 0	EIRP + GRF Ch. 1	Ch. 0 + Ch. 1	E	Limit	Margin
	(PK/AV G)	(Hz)	(dBm)	(Hz)	(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBμV/m)		(dB)
Low	PK	13.52k	-84.53	15.21k	-85.21	17.00	-61.53	-62.21	-58.85	36.41	120.52	-84.11
	PK	508.91k	-76.46	508.91k	-75.63	17.00	-53.46	-52.63	-50.01	45.24	69.52	-24.28
	PK	212.7M	-75.14	920.30 M	-75.04	17.00	-53.44	-53.34	-50.38	44.88	46.02	-1.14
	AVG	6.655G	-61.98	6.655G	-61.97	17.00	-44.98	-44.97	-41.96	53.29	80.00	-26.71
	AVG	23.17G	-72.66	23.178 G	-72.72	17.00	-55.66	-55.72	-52.68	42.58	54.00	-11.42
	AVG	38.4G	-46.23	38.4G	-58.99	17.00	-29.23	-41.99	-29.01	66.25	80.00	-13.75
	PK	6.68G	-49.87	6.68G	-48.98	17.00	-32.87	-31.98	-29.39	65.87	80.00	-14.13
	PK	22.99G	-58.32	23.88G	-59.60	17.00	-41.32	-42.60	-38.90	56.35	74.00	-17.65
	PK	37.91G	-47.39	38.4G	-46.22	17.00	-30.39	-29.22	-26.76	68.50	80.00	-11.50
Mid	PK	49.97k	-84.61	13.51k	-86.26	17.00	-61.61	-63.26	-59.35	35.91	120.52	-84.61
	PK	508.9k	-75.63	508.91k	-75.46	17.00	-52.63	-52.46	-49.53	45.72	73.80	-28.08
	PK	988.3M	-73.93	924.18	-74.50	17.00	-52.23	-52.80	-49.50	45.76	46.02	-0.26
	AVG	6.64G	-62.98	6.64G	-62.98	17.00	-45.98	-45.98	-42.97	52.29	80.00	-27.71
	AVG	23.87G	-73.36	23.89G	-59.97	17.00	-56.36	-42.97	-42.78	52.48	54.00	-1.52
	AVG	38.37G	-59.14	38.97G	-59.15	17.00	-42.14	-42.15	-39.13	56.12	80.00	-23.88
	PK	6.71G	-50.15	6.55G	-49.98	17.00	-33.15	-32.98	-30.05	65.20	80.00	-14.80
	PK	22.95G	-59.56	24.33G	-59.82	17.00	-42.56	-42.82	-39.68	55.58	74.00	-18.42
	PK	38.32G	-47.48	38.45G	-47.07	17.00	-30.48	-30.07	-27.26	68.00	80.00	-12.00
High	PK	28.49k	-85.77	13.52k	-87.37	17.00	-62.77	-64.37	-60.49	34.77	120.52	-85.75
	PK	508.9k	-75.13	508.9k	-76.44	17.00	-52.13	-53.44	-49.73	45.53	73.80	-28.27
	PK	924.1M	-74.70	898.91 M	-74.45	17.00	-53.00	-52.75	-49.86	45.39	46.02	-0.63
	AVG	6.64G	-62.98	6.64G	-62.98	17.00	-45.98	-45.98	-42.97	52.29	80.00	-27.71
	AVG	23.17G	-72.91	23.17G	-72.69	17.00	-55.91	-55.69	-52.79	42.47	54.00	-11.53
	AVG	37.97G	-59.13	38.4G	-59.09	17.00	-42.13	-42.09	-39.10	56.16	80.00	-23.84
	PK	6.75G	-48.80	6.68G	-49.98	17.00	-31.80	-32.98	-29.34	65.92	80.00	-14.08
	PK	23.91G	-60.73	24.91G	-59.91	17.00	-43.73	-42.91	-40.29	54.97	74.00	-19.03
	PK	38.42G	-48.40	38.32G	-47.45	17.00	-31.40	-30.45	-27.89	67.37	80.00	-12.63

**Table 13: Result for 17 dBi configuration - 10 MHz modulation bandwidth**

**Note:**

GRF is Ground Reflection Factor and it is considered to be 6dB for frequencies below 30MHz, 4.7dB for frequencies between 30MHz to 1GHz & 0dB for frequencies above 1GHz.

$EIRP = Ch. x \text{ measured power} + \text{Antenna gain}$

$E = (EIRP + GRF) - 20 \log D + 104.8$

$\text{Margin} = E - \text{Limit}$

## 5.3.7 BAND EDGE MEASUREMENTS

### 5.3.7.1 TEST SPECIFICATION

Test Standard	47 CFR, Part 15, Subpart E Feb 2016
Test Procedure	789033 D2 General U-NII Test Procedures New Rule V01r01
Frequency Range	5250-5350 MHz
Resolution Bandwidth	100 kHz
Video Bandwidth	300 kHz
Sweep Time	1 ms
Attenuation	Auto
Test Mode	Conducted
Detector	Peak
Input Voltage	120 V AC
Input Frequency	60 Hz
Temperature	23.0 °C
Humidity	54.0 %
Tested By	Suresh.G.N
Test Date	26 <sup>th</sup> Apr 2016

### 5.3.7.2 LIMITS

Standard	Reference section	Frequency range	Limit
47 CFR, Part 15 Feb 2016	§15.407 b (2)	5250 MHz - 5350 MHz	$\leq -27$ dBm in any 1MHz band Limit, Limit (for 17 dBi antenna configuration) : $\leq 47$ dBm/MHz

### 5.3.7.3 TEST SETUP



Figure 160: Typical test setup for Conducted Test

### 5.3.7.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per the “**789033 D2 General U-NII Test Procedures New Rule V01r01**”. The RF output of the EUT was connected to the input port of Spectrum analyzer using an attenuator. The graph and data captured from spectrum analyzer and recorded.

### 5.3.7.5 MEASUREMENT GRAPHS / DATA

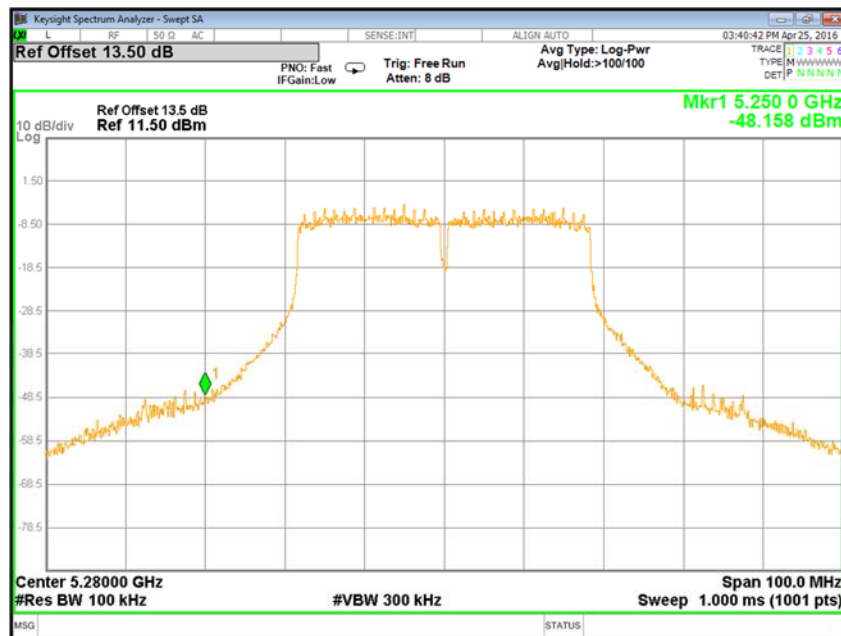


Figure 161: 40 MHz, 17 dBi, Low channel: Band edge measured at Ch.0 -5280 MHz



Figure 162: 40 MHz, 17 dBi, Low channel: Band edge measured at Ch.1 -5280 MHz

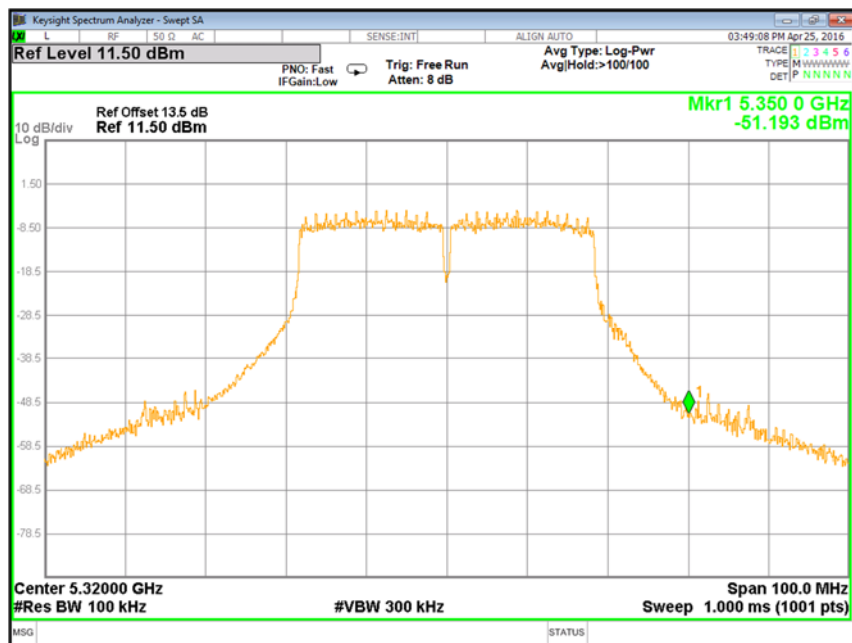


Figure 163: 40 MHz, 17 dBi, High channel: Band edge measured at Ch.0 -5320 MHz

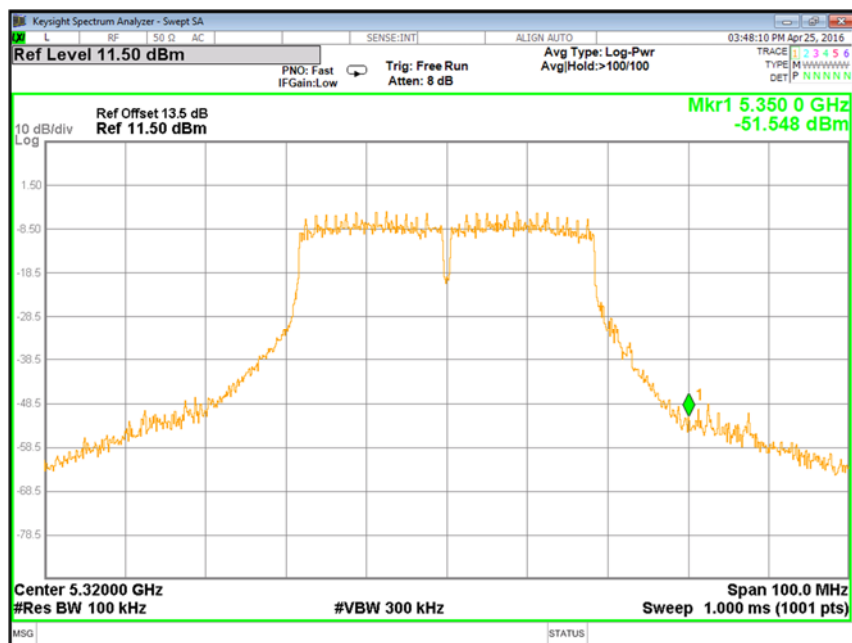


Figure 164: 40 MHz, 17 dBi, High channel: Band edge measured at Ch.1 -5320 MHz

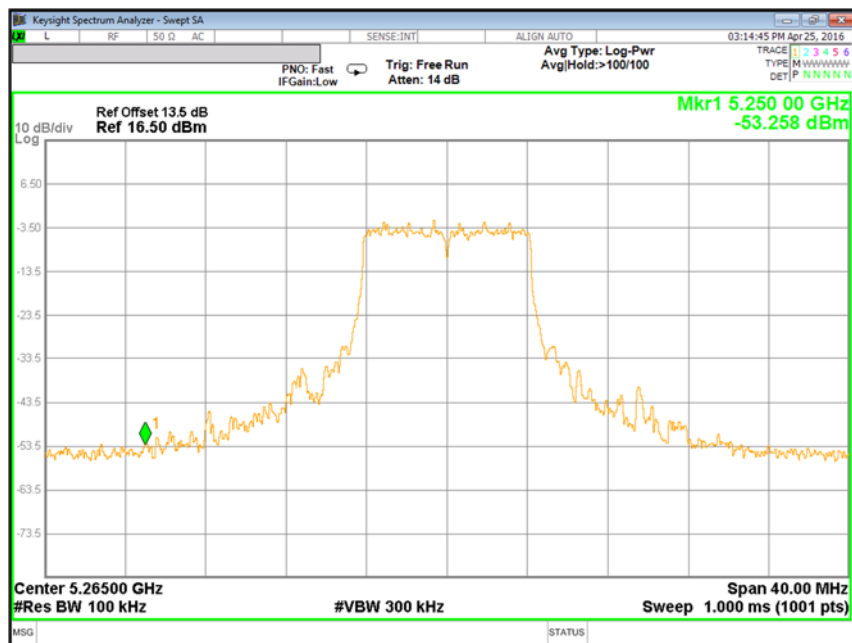


Figure 165: 10 MHz, 17 dBi, Low channel: Band edge measured at Ch.0 -5265 MHz

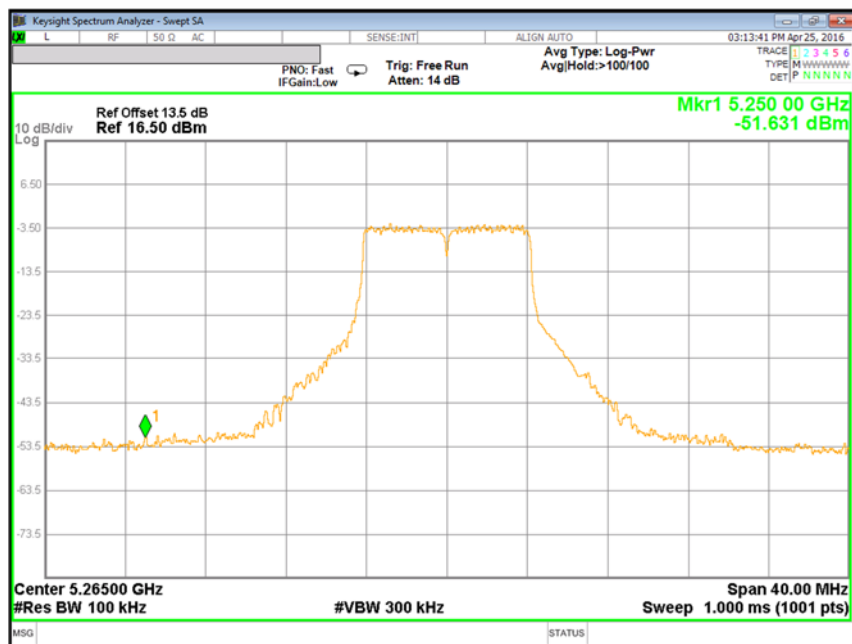


Figure 166: 10 MHz, 17 dBi, Low channel: Band edge measured at Ch.1 -5265 MHz



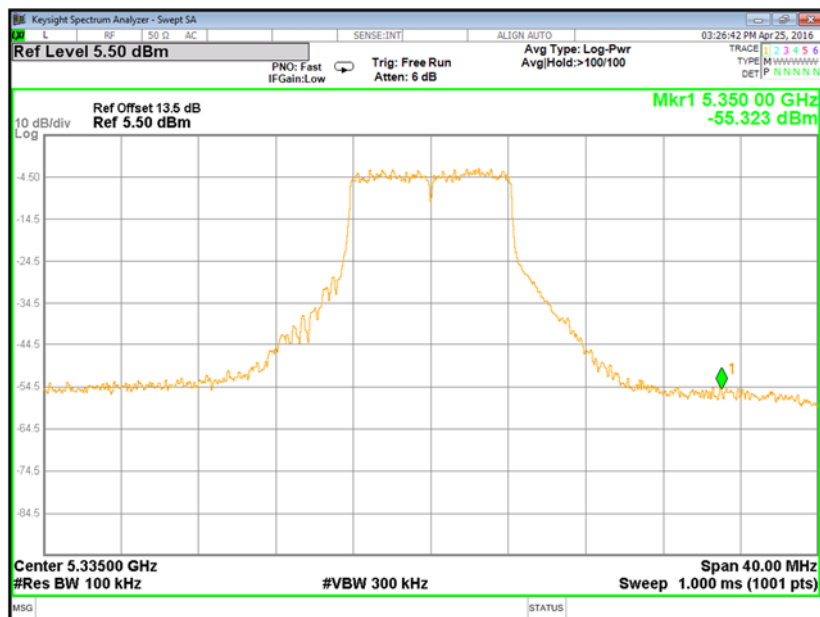


Figure 167: 10 MHz, 17 dBi, High channel: Band edge measured at Ch.0 -5335 MHz

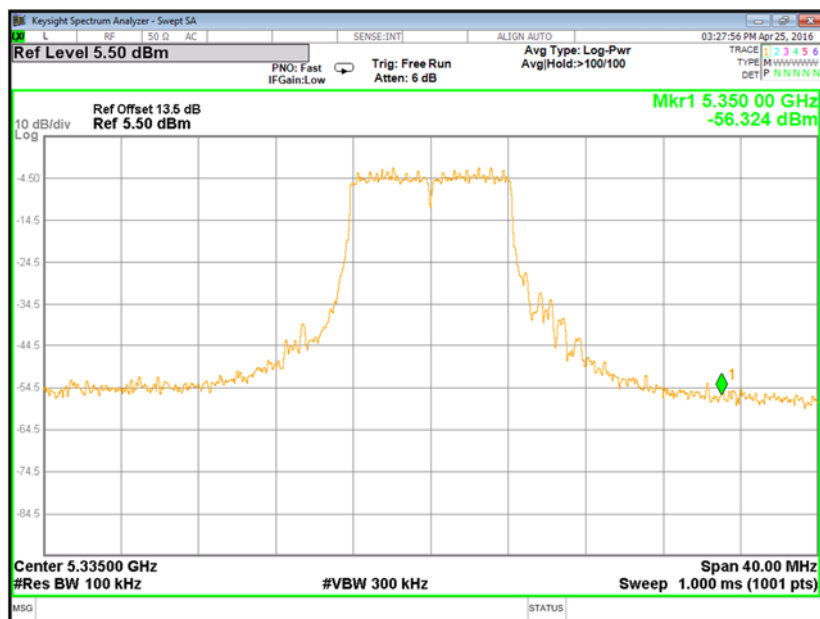


Figure 168: 10 MHz, 17 dBi, High channel: Band edge measured at Ch.1 -5335 MHz

### 5.3.7.6 RESULT

The Band Edge measurements for Low and High channels in both 40 MHz & 10 MHz modulation bandwidth is within the permissible levels.

## ANNEXURE I: EUT SOFTWARE SETTINGS

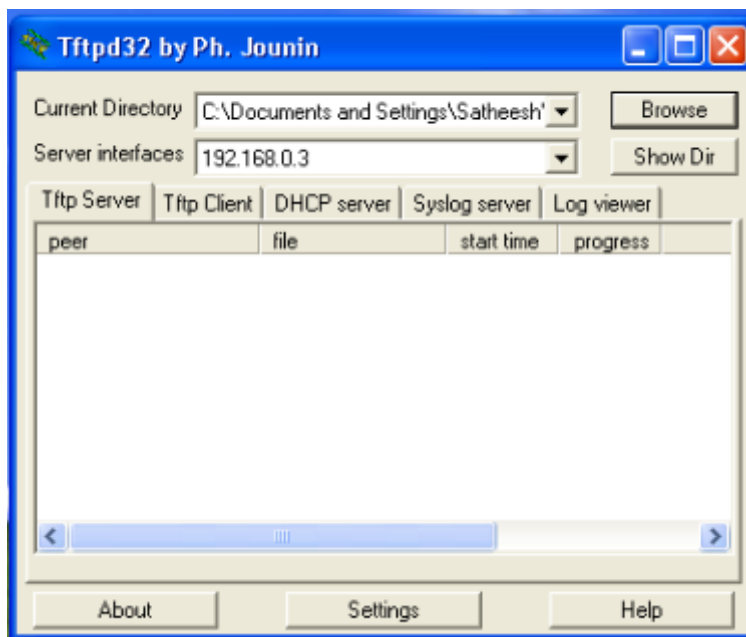


Figure 169: tftpd32 application screenshot

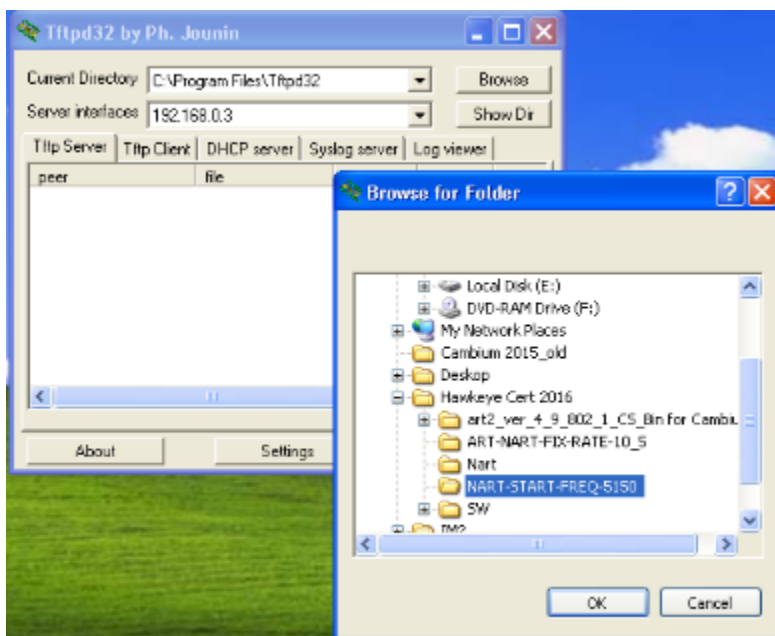


Figure 170: tftpd32 application initialization root\_ screenshot



Figure 171: Tera term application screenshot

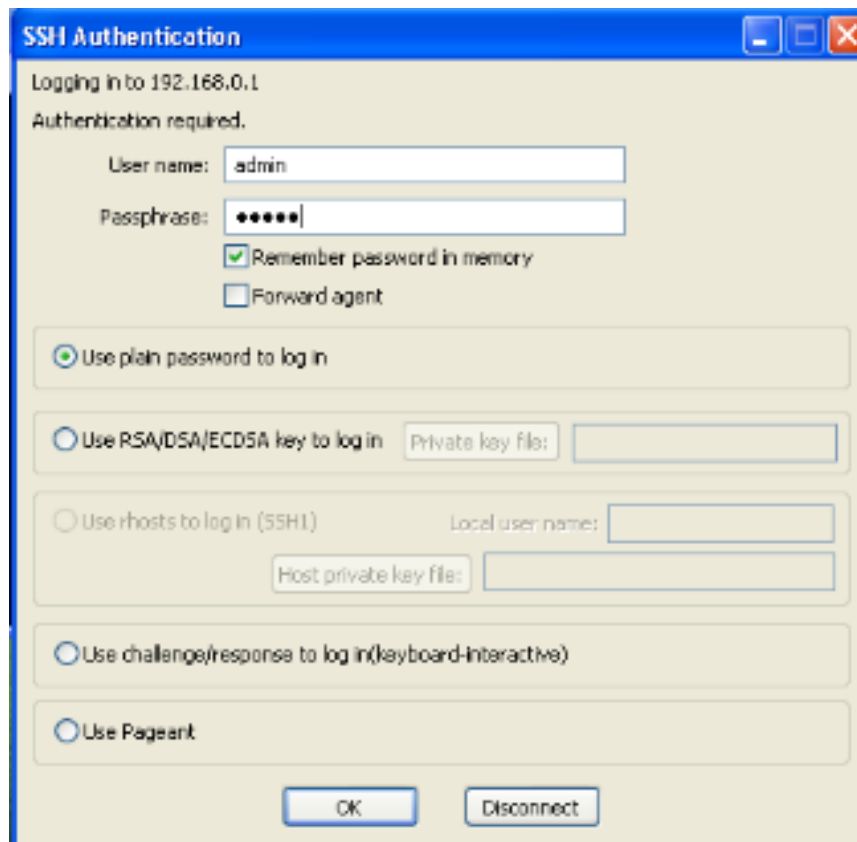


Figure 172: Tera term application Login screenshot

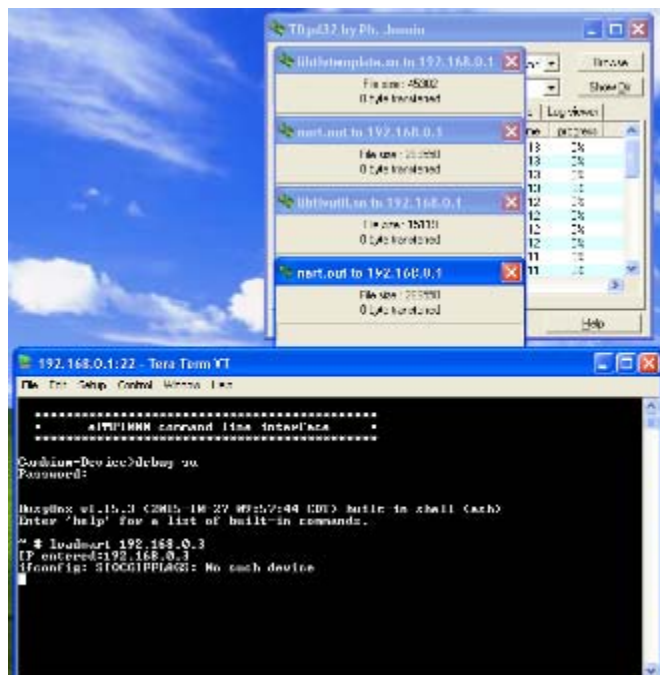


Figure 173: Initializing EUT screenshot

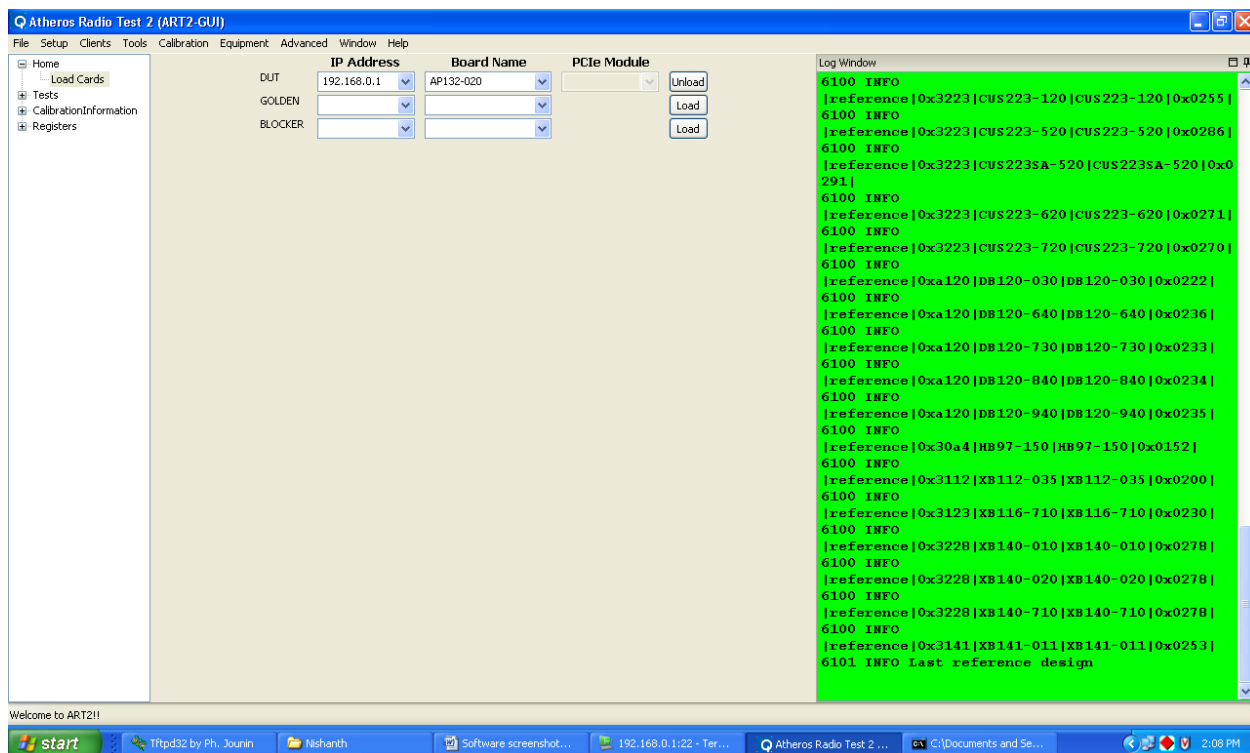


Figure 174: Atheros Radio Test GUI screenshot-1

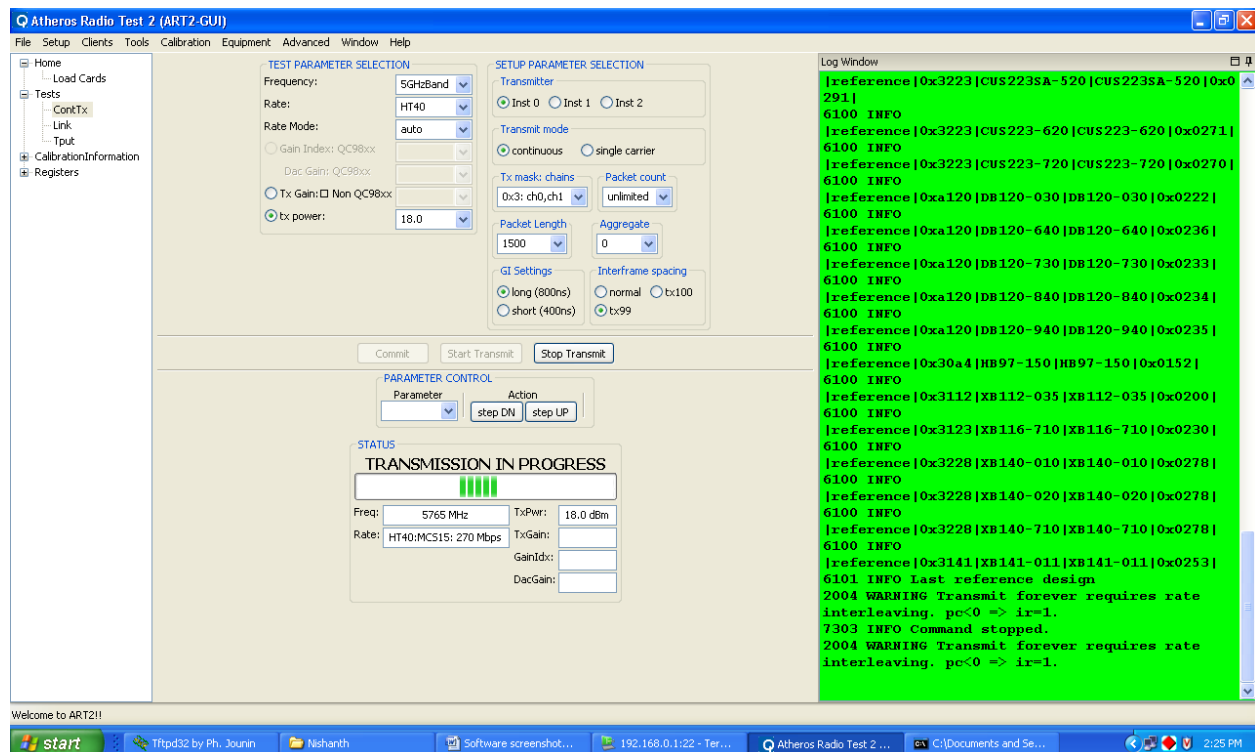


Figure 175: Atheros Radio Test GUI screenshot -2

## ANNEXURE II: ACRONYMS

dB $\mu$ V	Decibel micro Volts
dBm	Decibel in milli watt
EUT	Equipment Under Test
FCC	Federal Communications Commission
GHz	Giga Hertz
kHz	Kilo Hertz
LISN	Line Impedance Stabilization Network
MHz	Mega Hertz
POE	Power over Ethernet
PSD	Power Spectral density
QP	Quasi Peak
RF	Radio Frequency

**END OF REPORT**