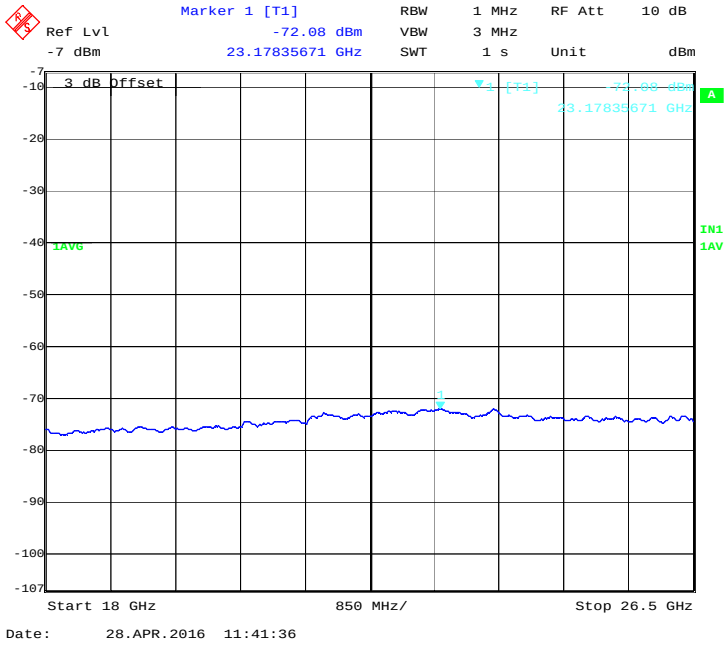

Figure 56: 40 MHz, 17 dBi, Low channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5495 MHz

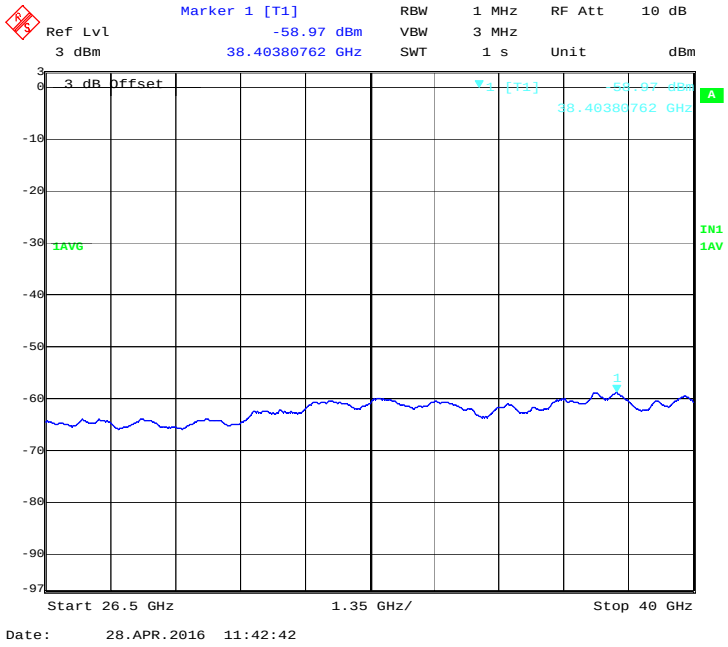

Figure 57: 40 MHz, 17 dBi, Low channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5495 MHz

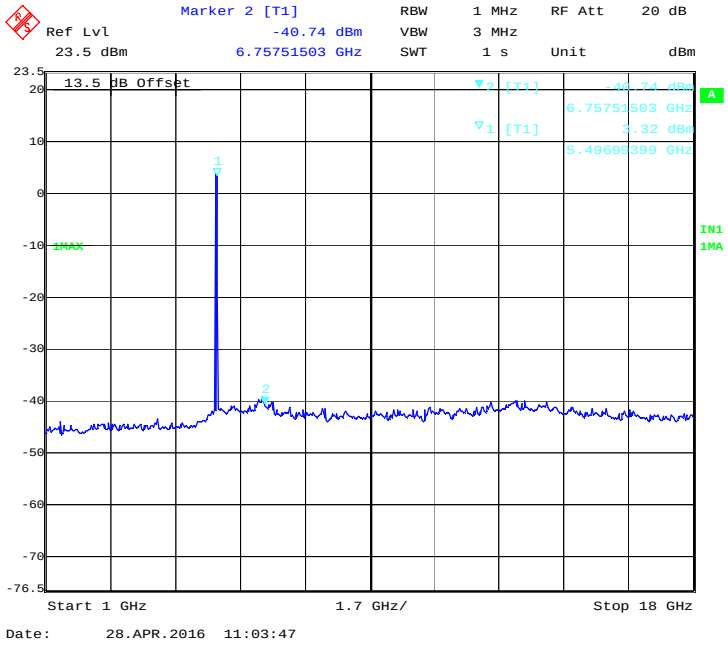

Figure 58: 40 MHz, 17 dBi, Low channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5495 MHz

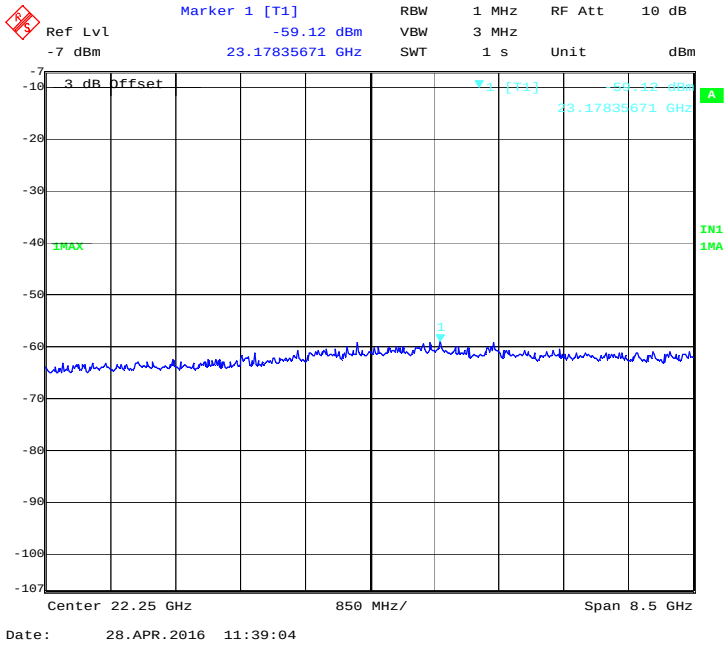

Figure 59: 40 MHz, 17 dBi, Low channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5495 MHz

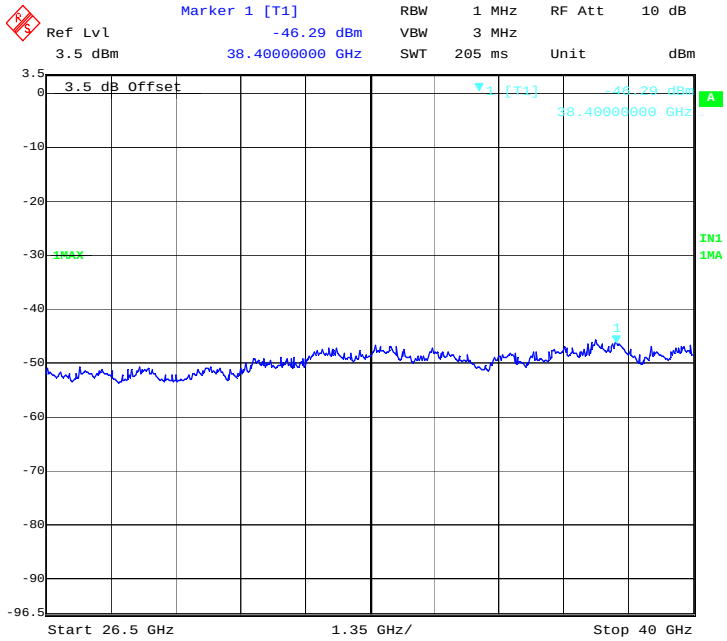

Figure 60: 40 MHz, 17 dBi, Low channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5495 MHz

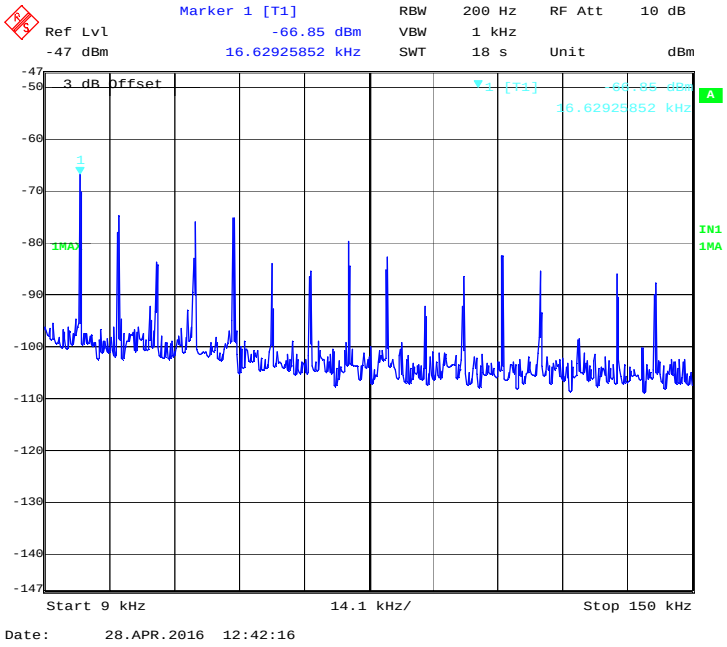

Figure 61: 40 MHz, 17 dBi, Low channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5495 MHz

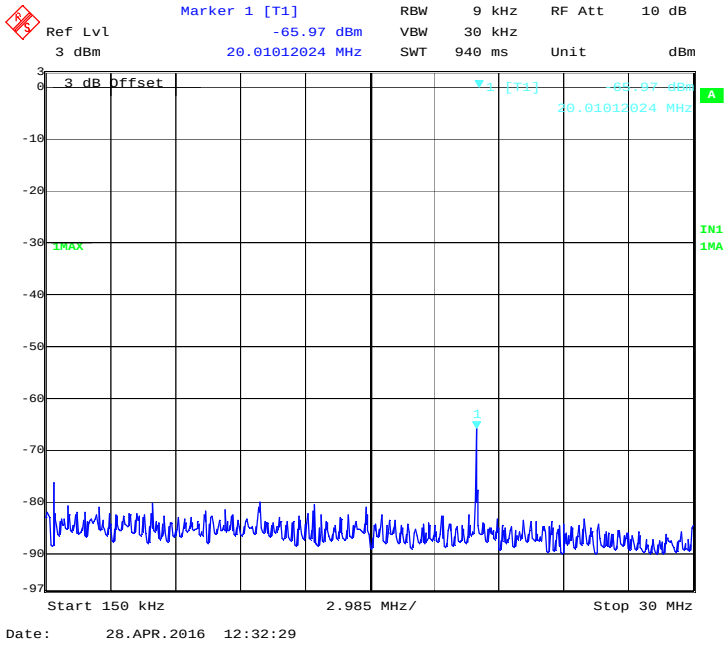

Figure 62: 40 MHz, 17 dBi, Low channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 –5495 MHz

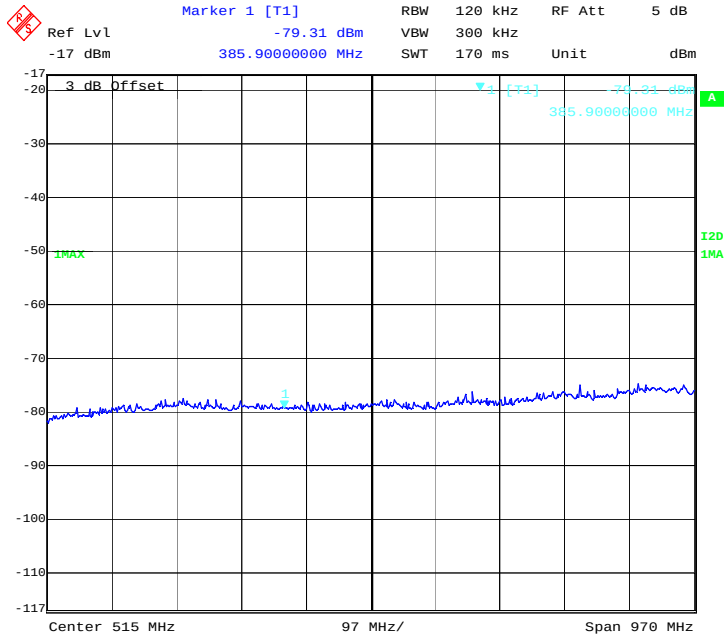

Figure 63: 40 MHz, 17 dBi, Low channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 –5495 MHz

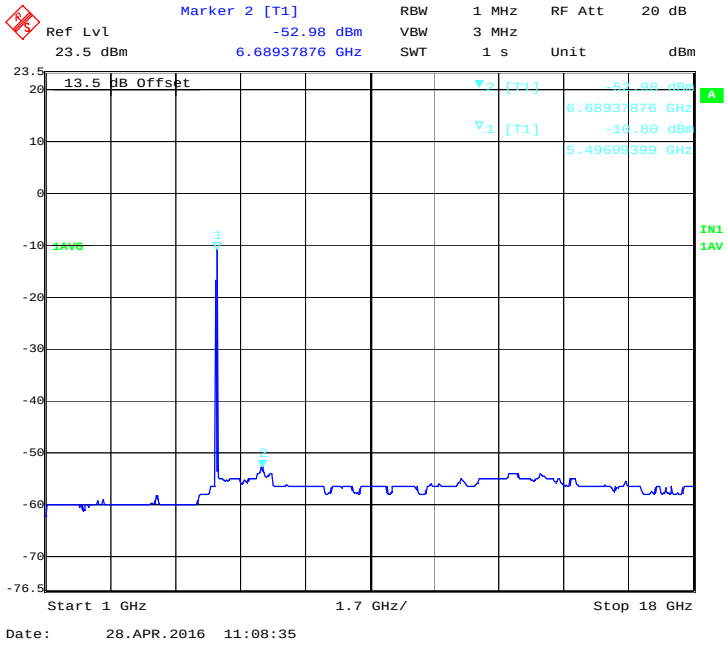

Figure 64: 40 MHz, 17 dBi, Low channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5495 MHz

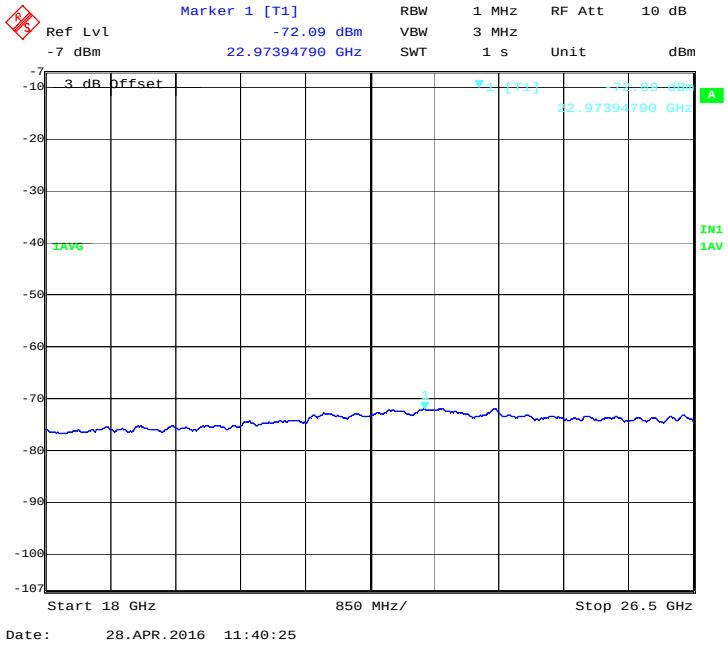

Figure 65: 40 MHz, 17 dBi, Low channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5495 MHz

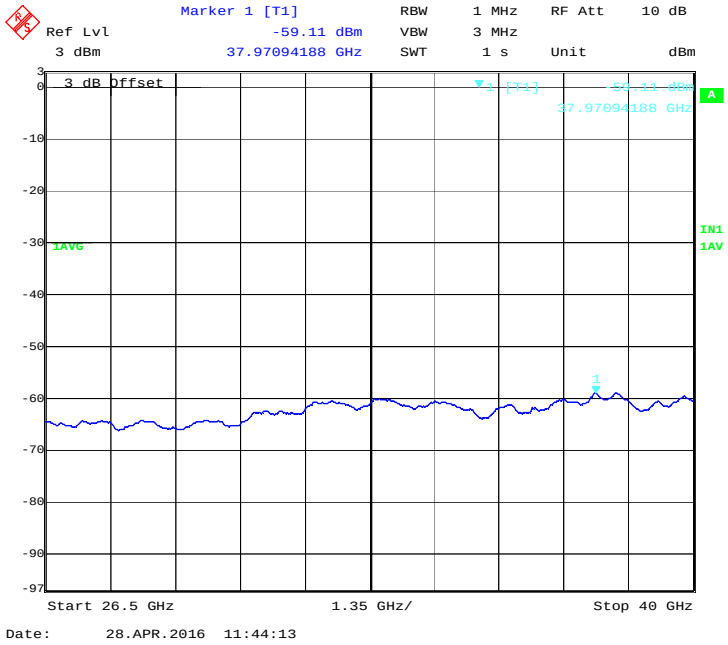

Figure 66: 40 MHz, 17 dBi, Low channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5495 MHz

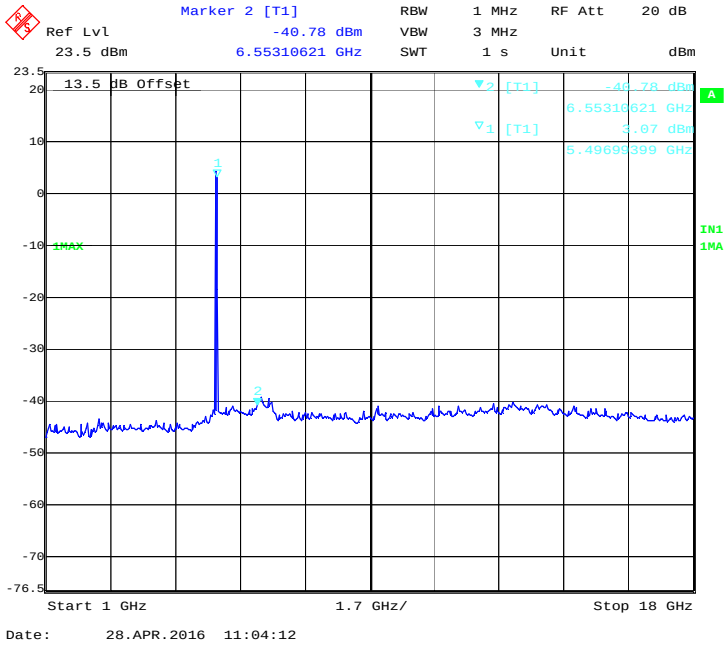

Figure 67: 40 MHz, 17 dBi, Low channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5495 MHz

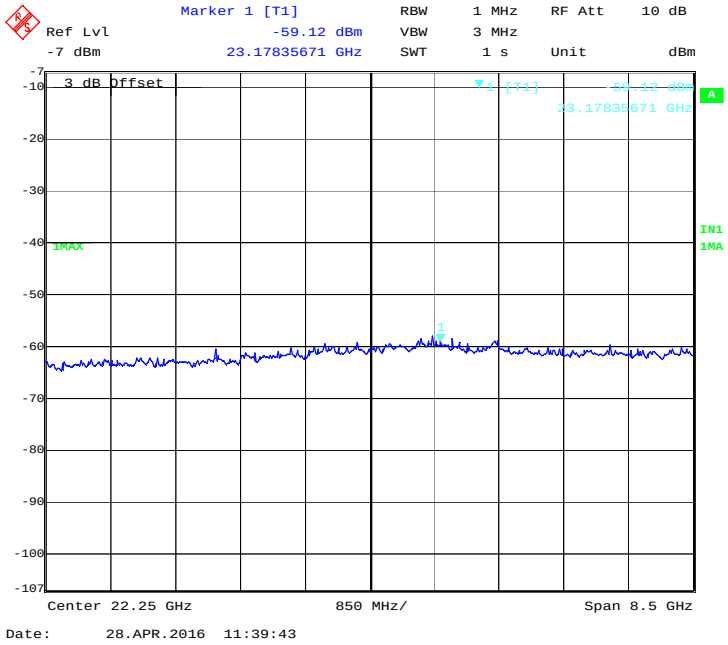

Figure 68: 40 MHz, 17 dBi, Low channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 –5495 MHz

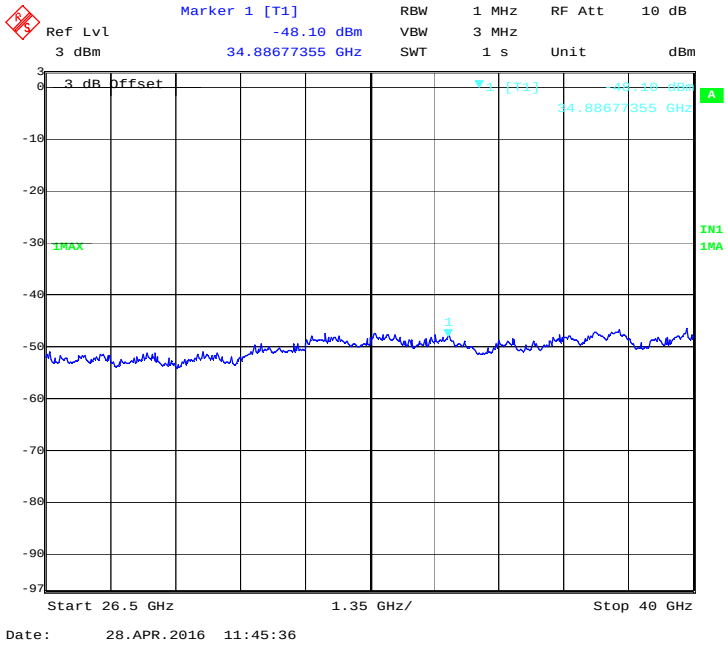

Figure 69: 40 MHz, 17 dBi, Low channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 –5495 MHz

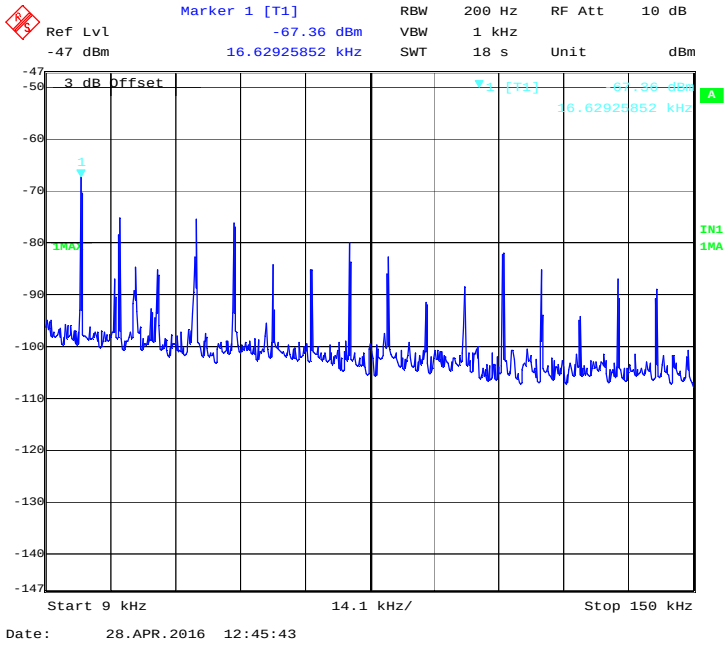

Figure 70: 40 MHz, 17 dBi, Mid channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 –5595 MHz

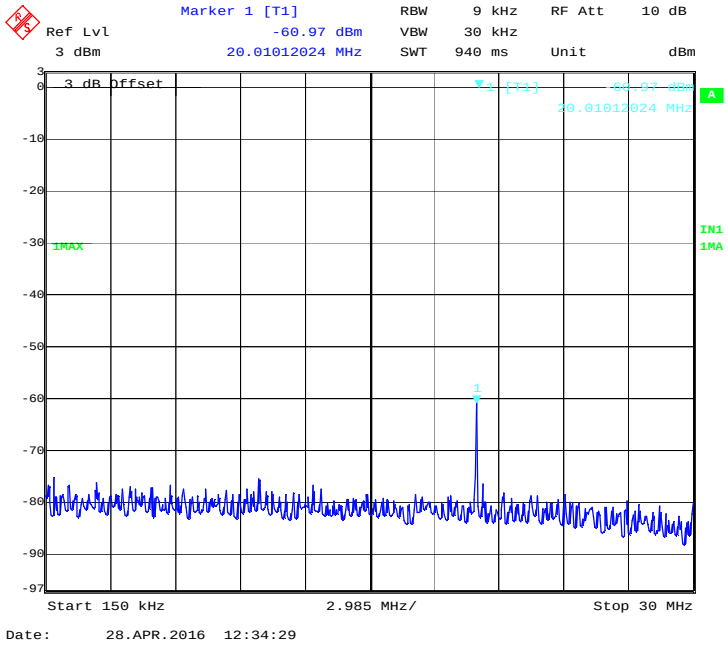

Figure 71: 40 MHz, 17 dBi, Mid channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 –5595MHz

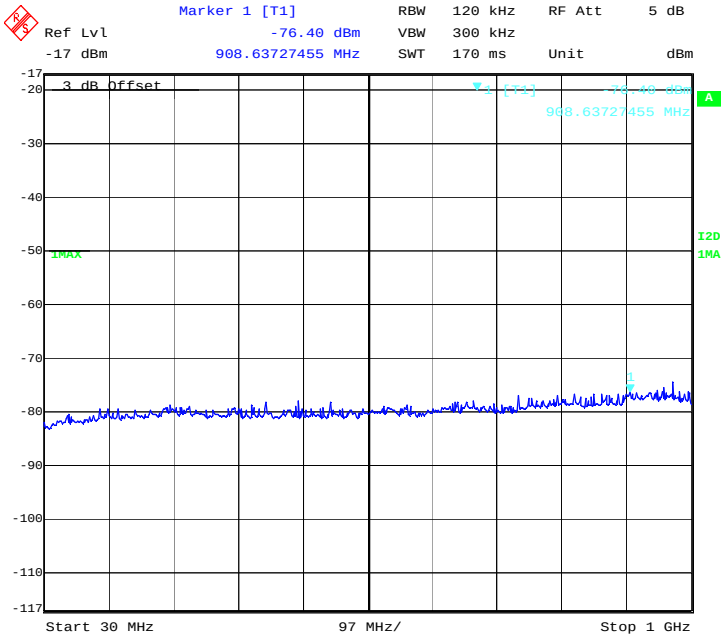

Figure 72: 40 MHz, 17 dBi, Mid channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 –5595 MHz

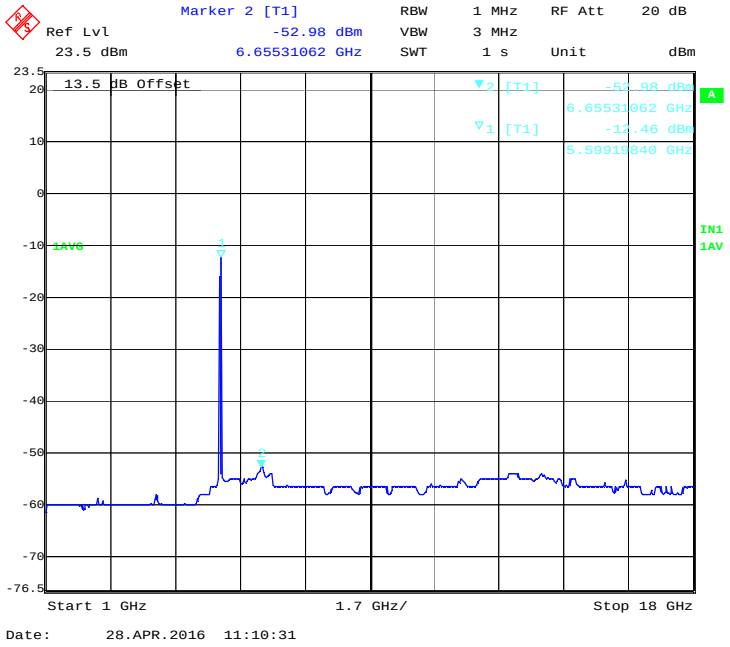

Figure 73: 40 MHz, 17 dBi, Mid channel: Average emission from 1 GHz to 18 GHz at Ch. 0 –5595 MHz

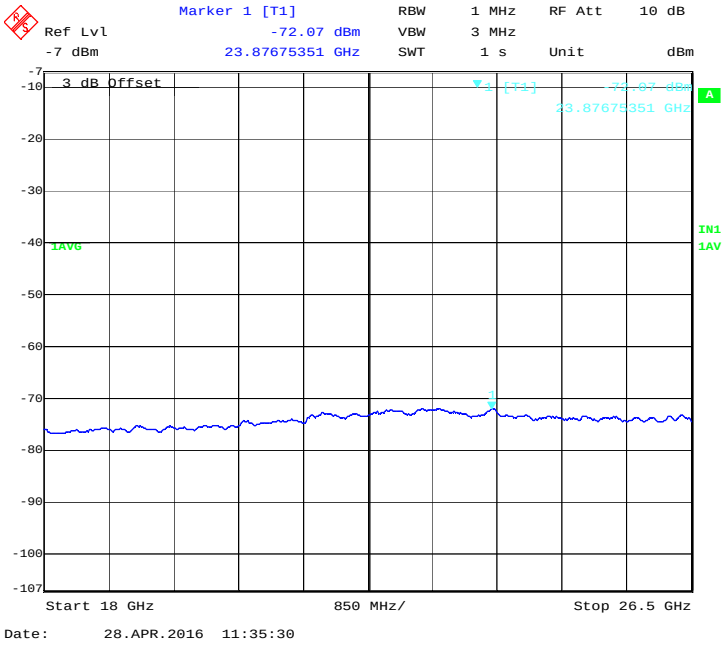

Figure 74: 40 MHz, 17 dBi, Mid channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5595 MHz

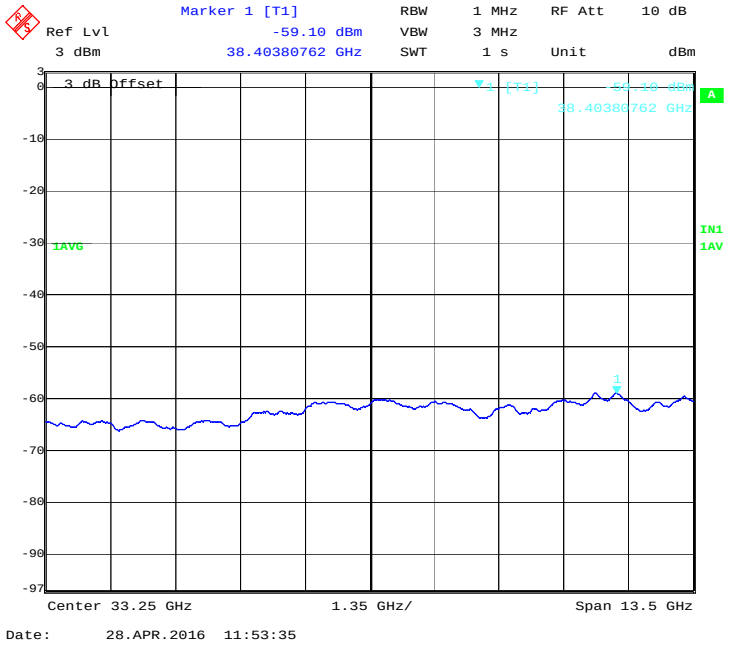

Figure 75: 40 MHz, 17 dBi, Mid channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5595 MHz

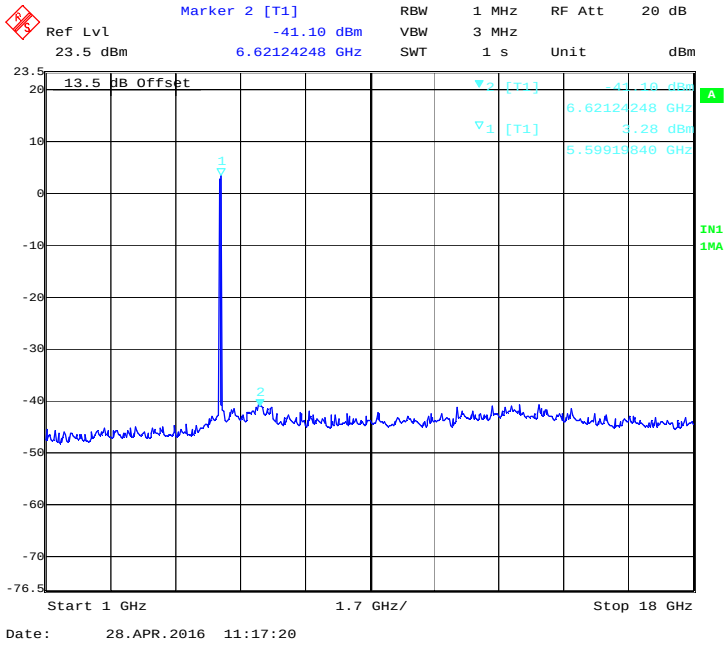

Figure 76: 40 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5595 MHz

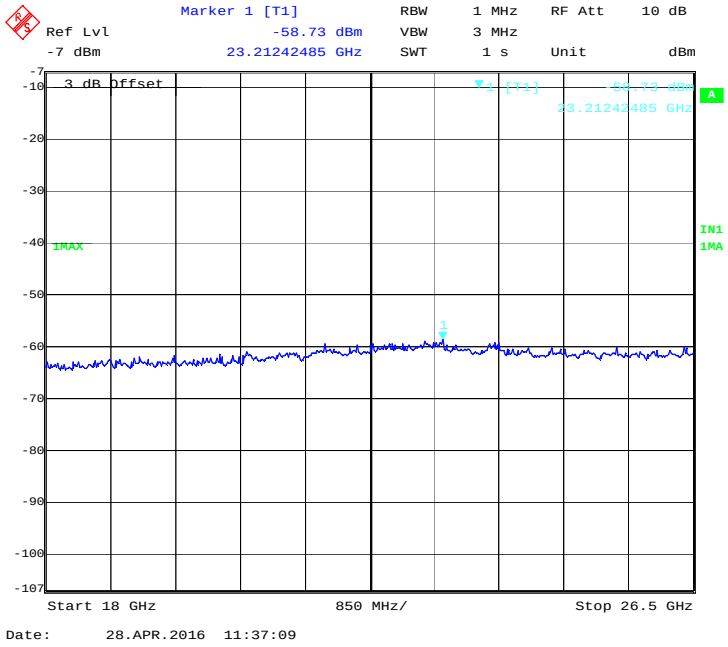

Figure 77: 40 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5595 MHz

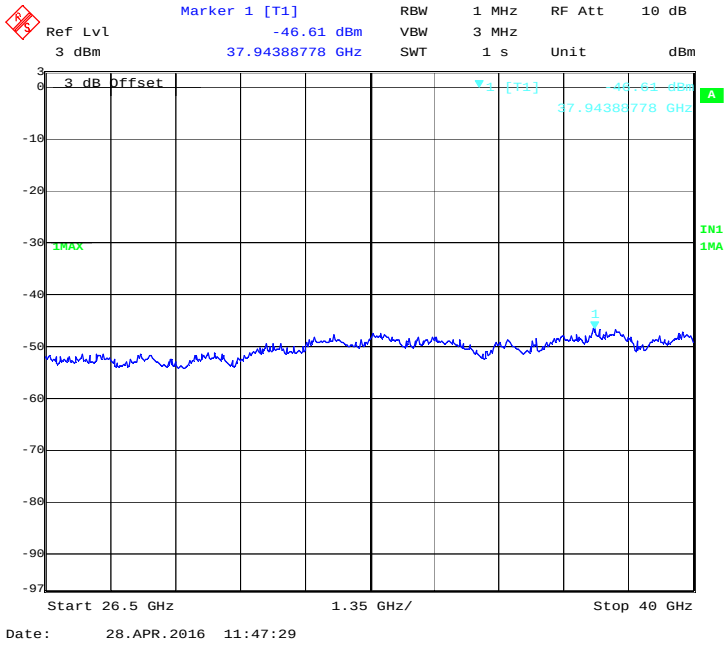

Figure 78: 40 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5595 MHz

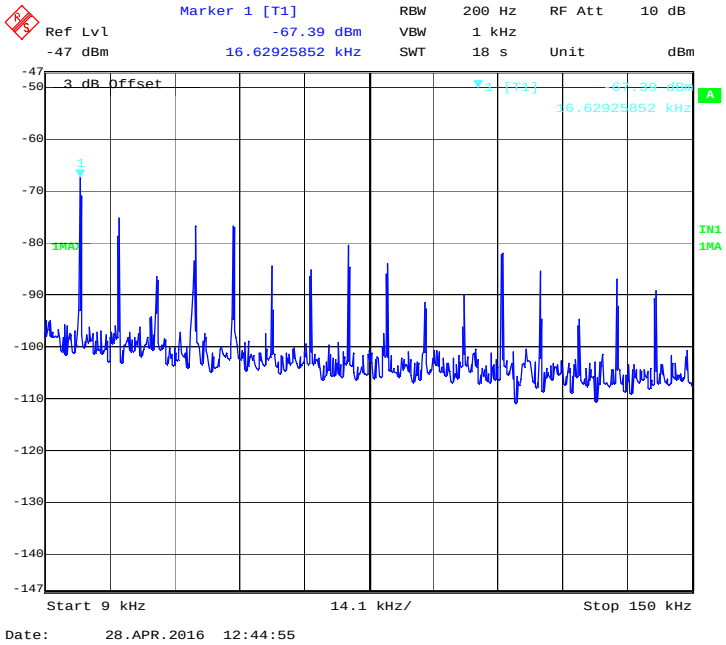

Figure 79: 40 MHz, 17 dBi, Mid channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5595 MHz

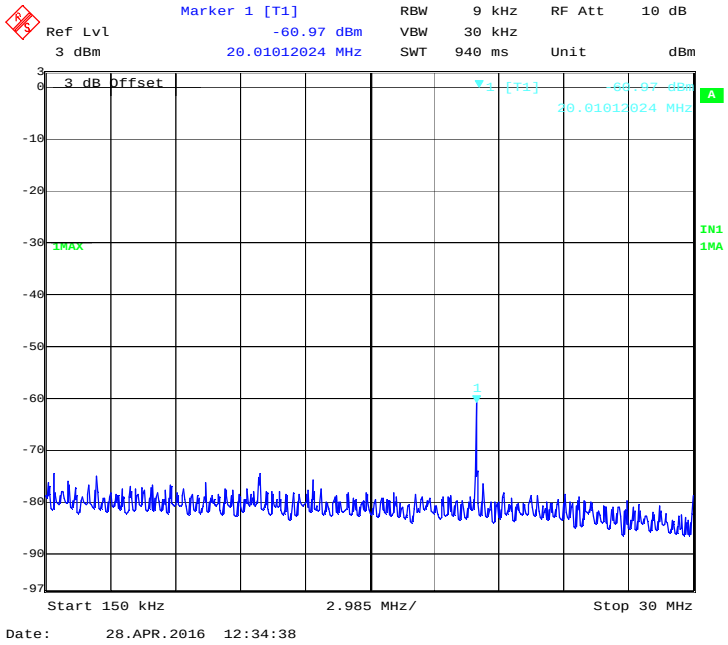

Figure 80: 40 MHz, 17 dBi, Mid channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 –5595 MHz

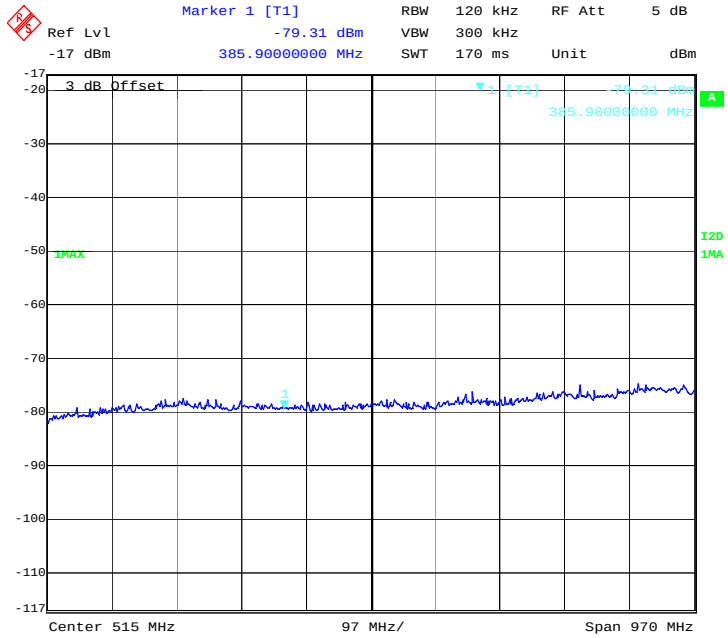

Figure 81: 40 MHz, 17 dBi, Mid channel: Peak emission from 30 MHz to 1 GHz at Ch. 1–5595 MHz

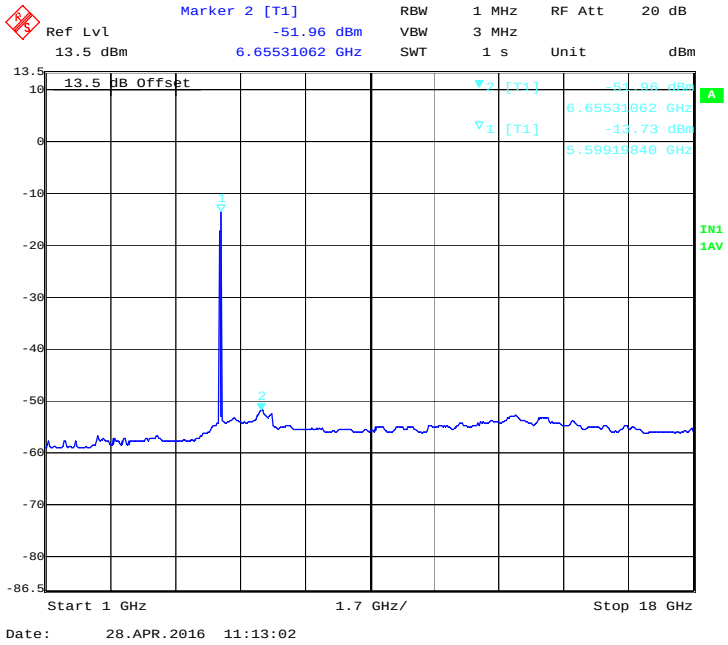

Figure 82: 40 MHz, 17 dBi, Mid channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5595 MHz

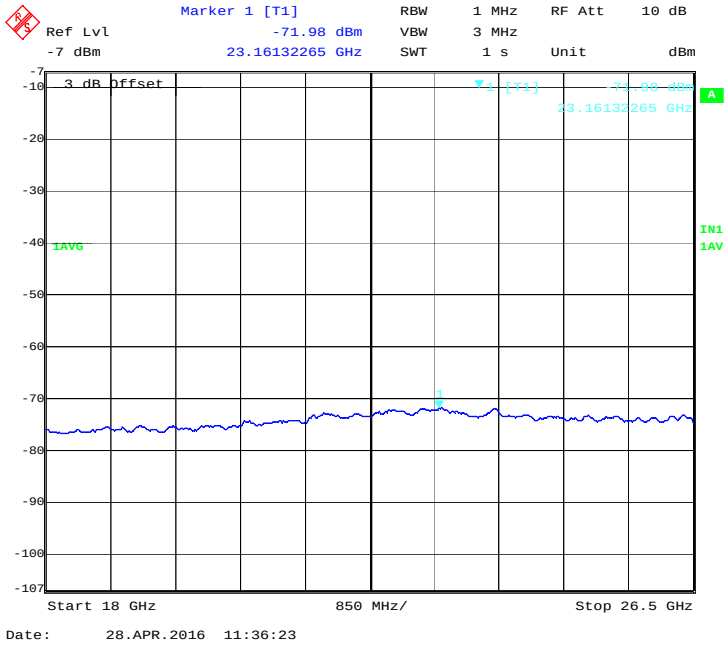

Figure 83: 40 MHz, 17 dBi, Mid channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5595 MHz

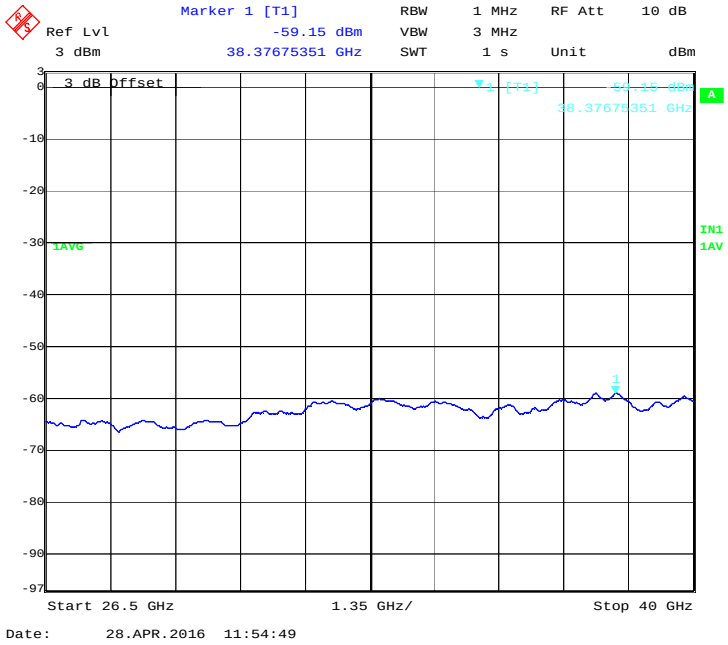

Figure 84: 40 MHz, 17 dBi, Mid channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5595 MHz

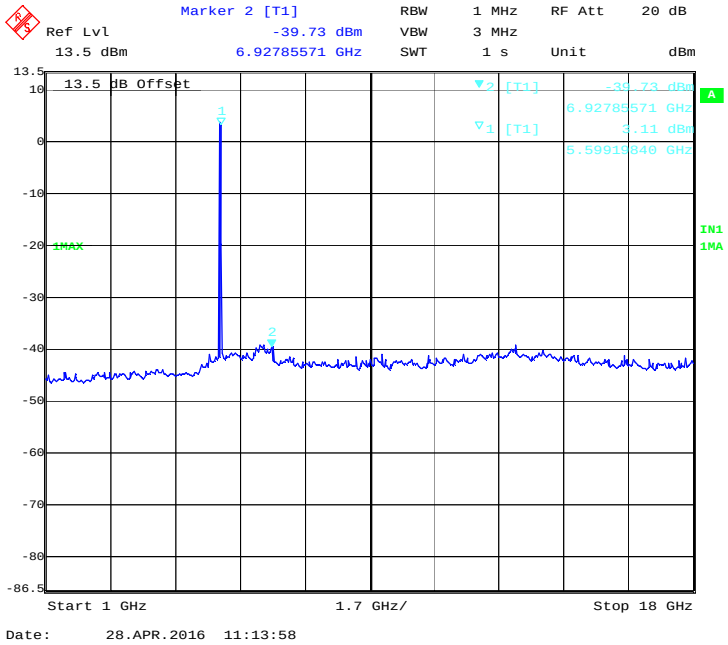

Figure 85: 40 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5595 MHz

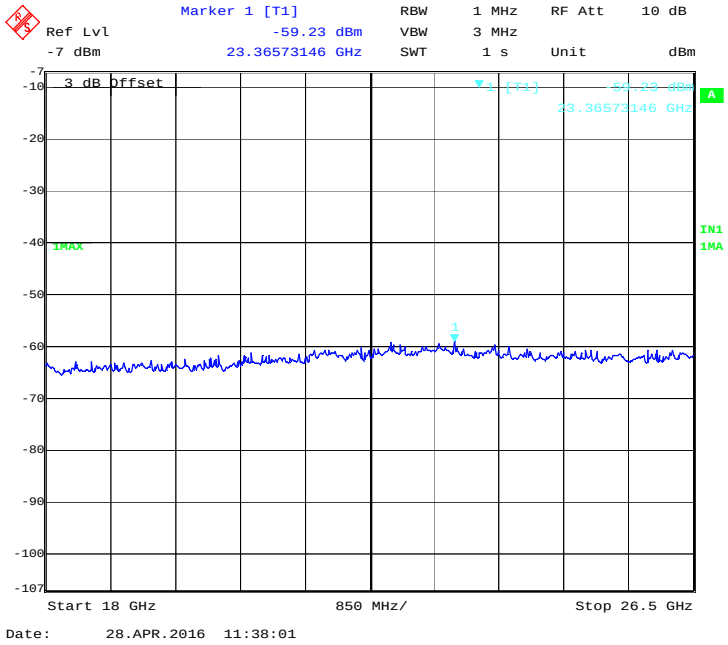

Figure 86: 40 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 –5595 MHz

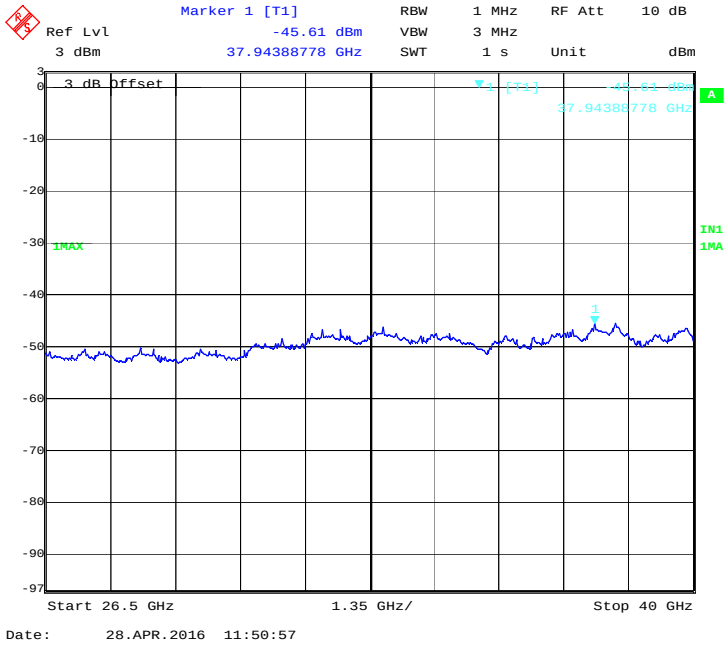

Figure 87: 40 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 –5595 MHz

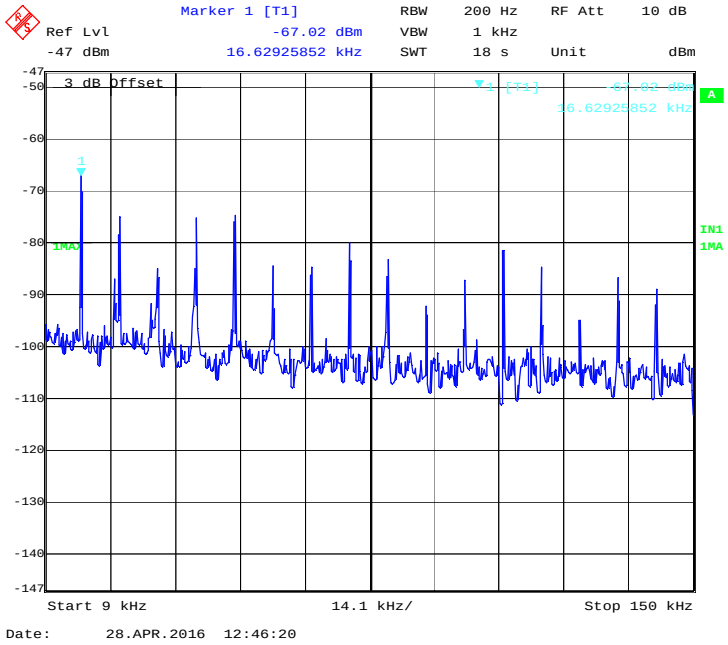

Figure 88: 40 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 –5700 MHz

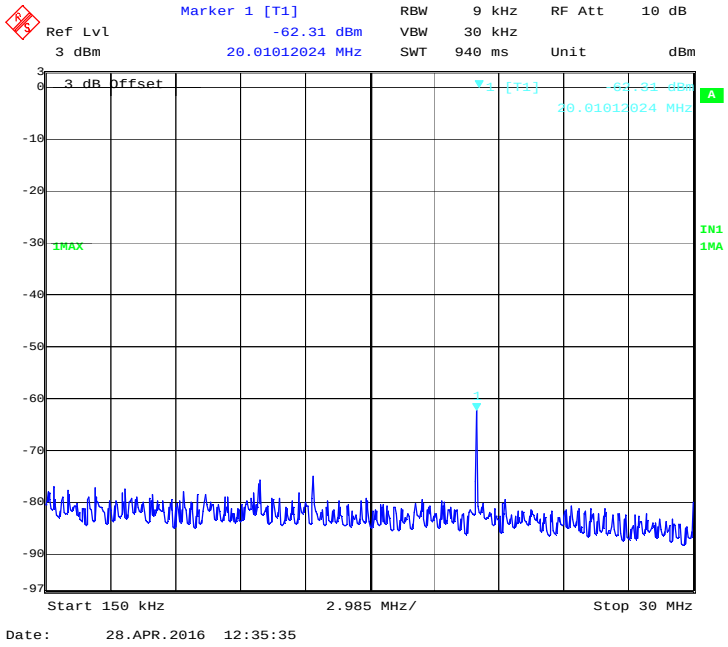

Figure 89: 40 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 –5700 MHz

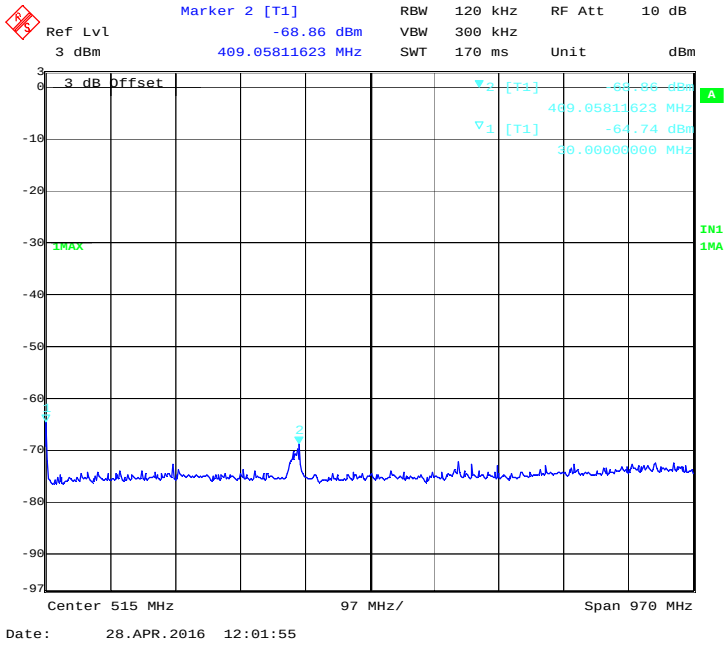

Figure 90: 40 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 –5700 MHz

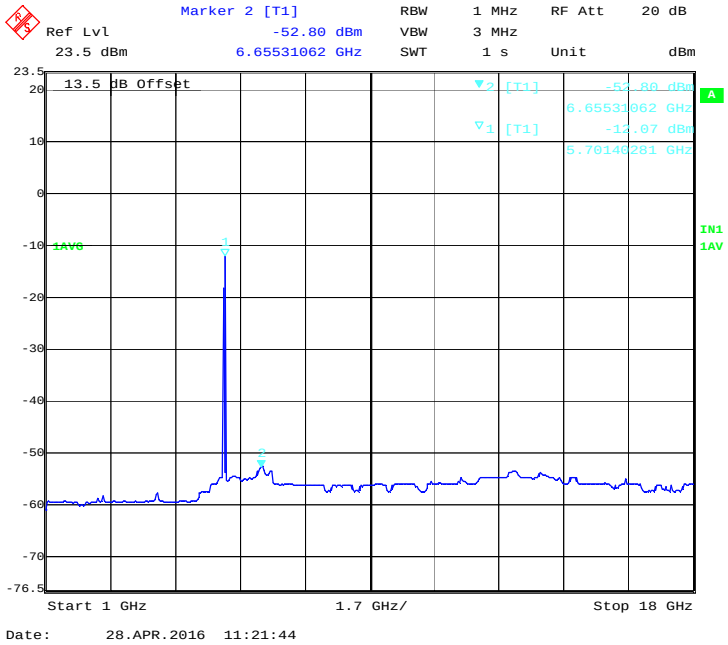

Figure 91: 40 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 0 –5700 MHz

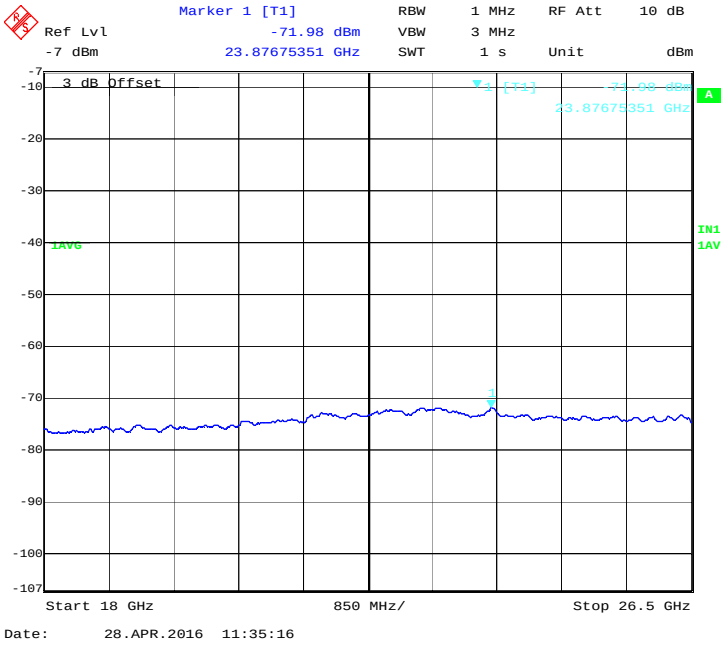

Figure 92: 40 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5700 MHz

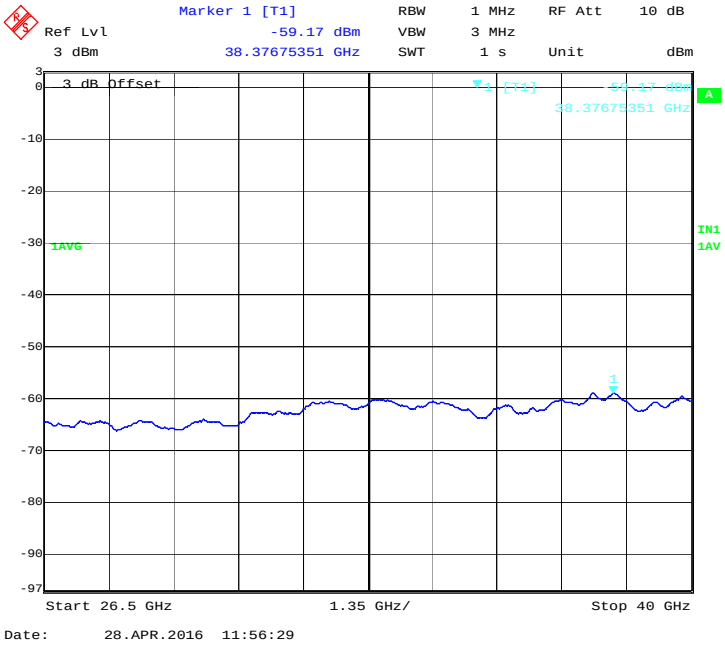

Figure 93: 40 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5700 MHz

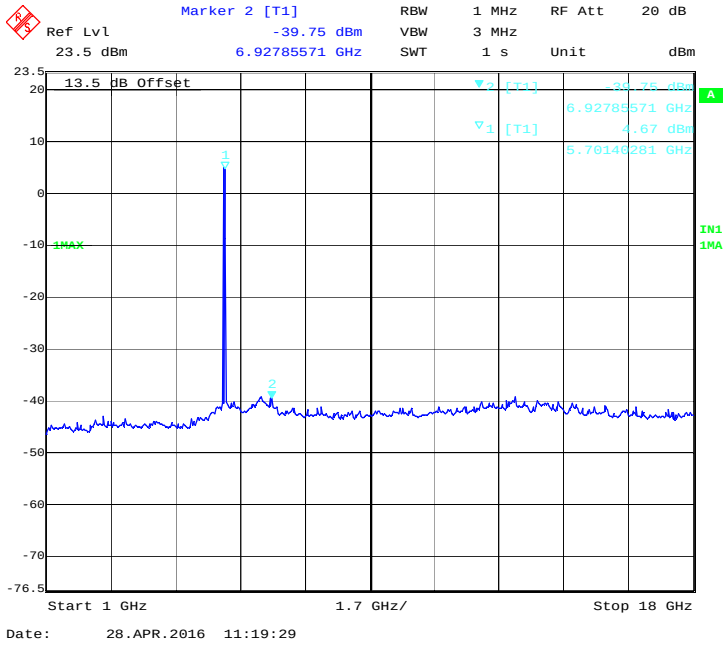

Figure 94: 40 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5700 MHz

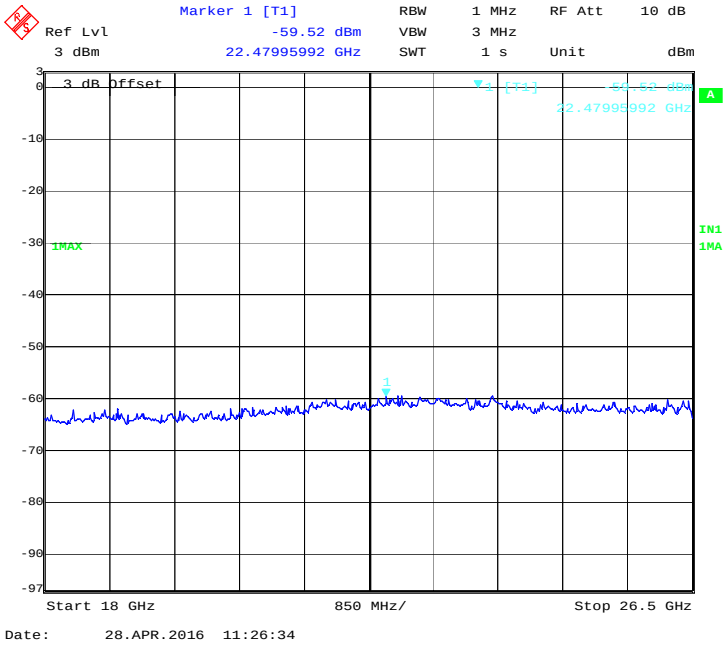

Figure 95: 40 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5700 MHz

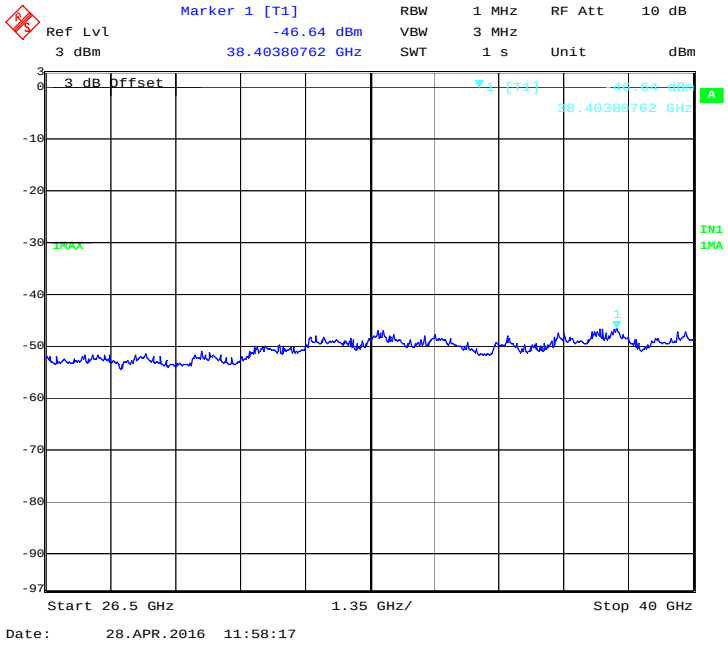

Figure 96: 40 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5700 MHz

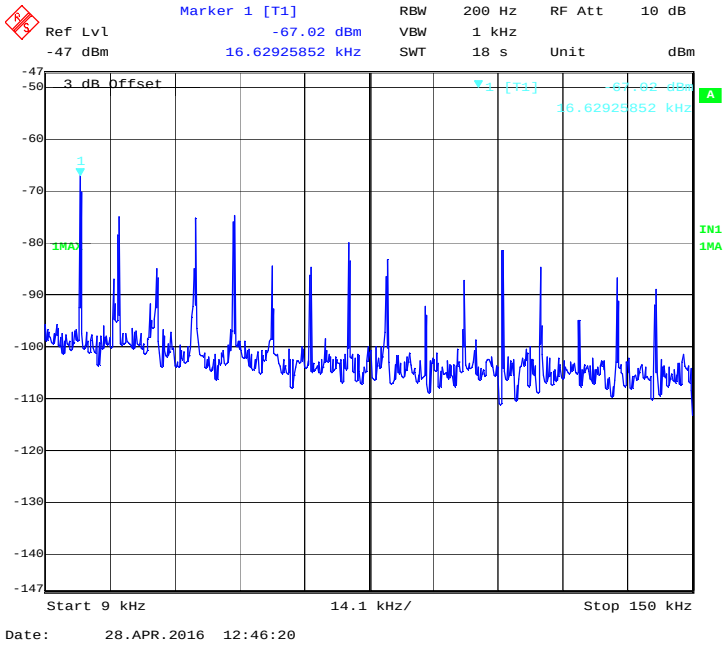

Figure 97: 40 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5700 MHz

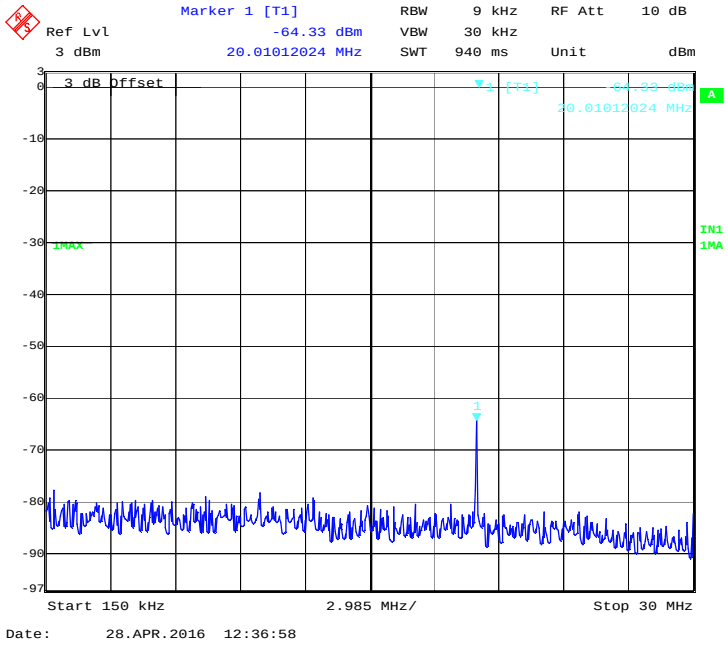

Figure 98: 40 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 –5700 MHz

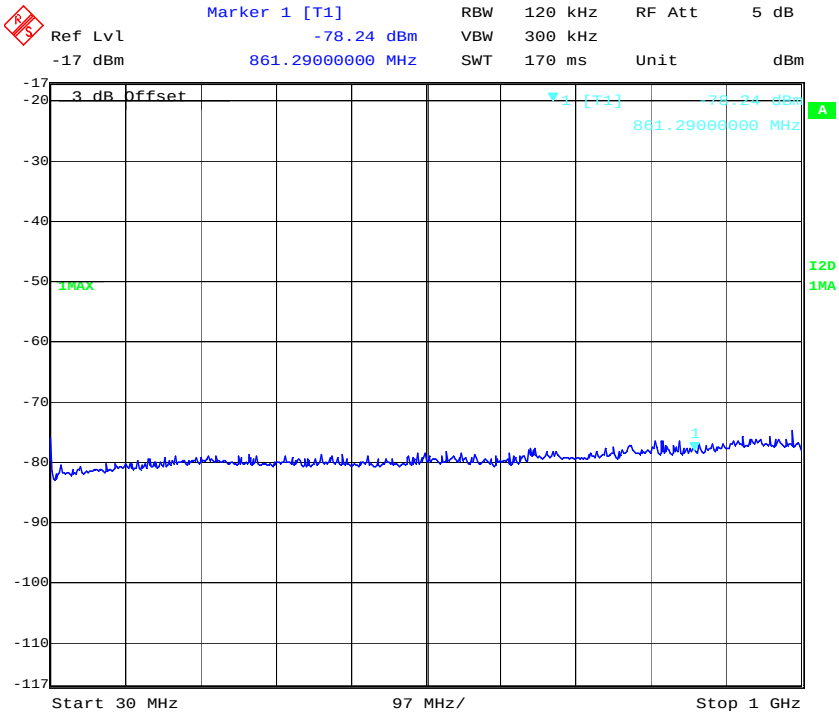

Figure 99: 40 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 –5700 MHz

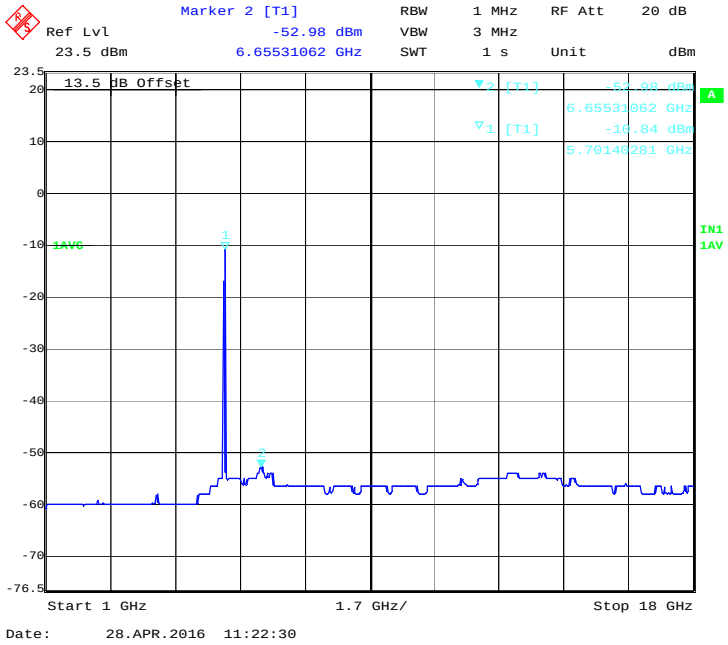

Figure 100: 40 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5700 MHz

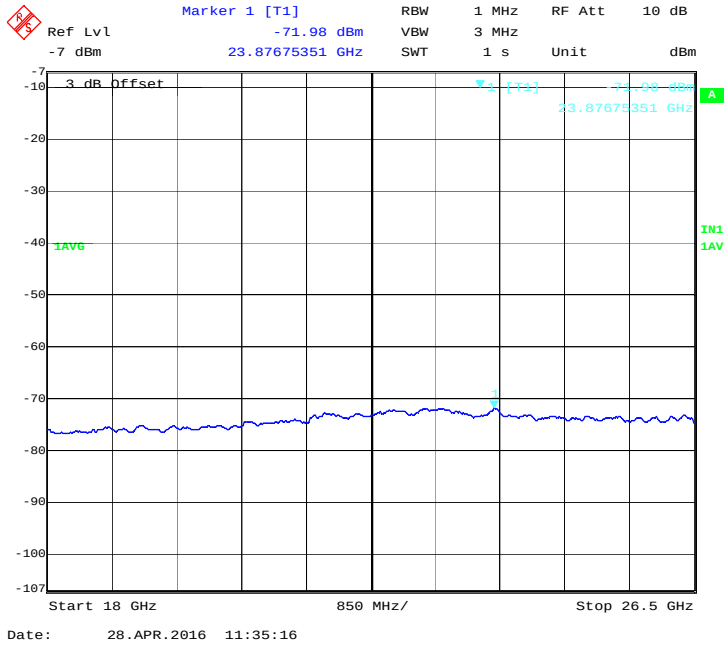

Figure 101: 40 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5700 MHz

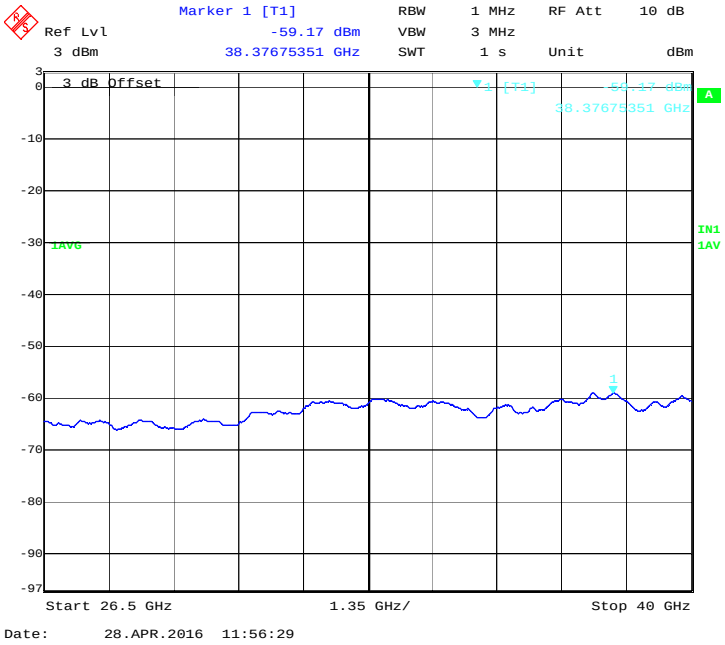

Figure 102: 40 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5700 MHz

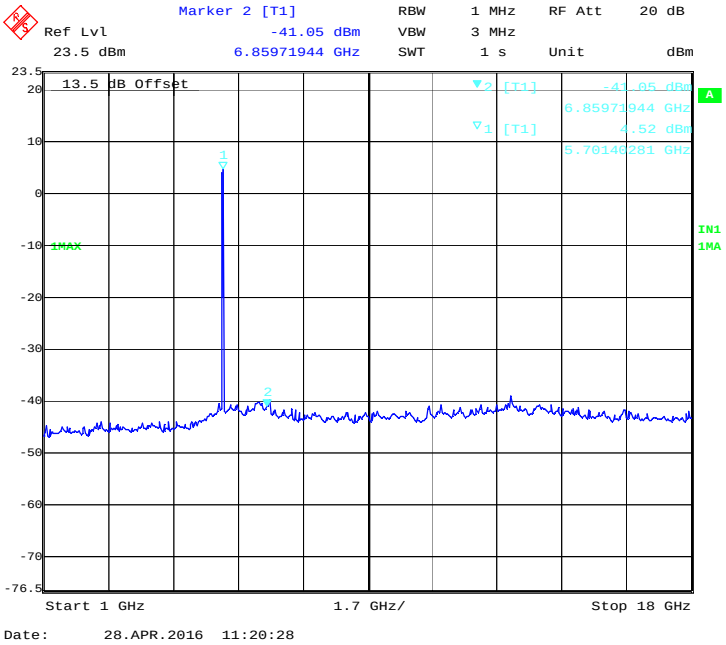

Figure 103: 40 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5700 MHz

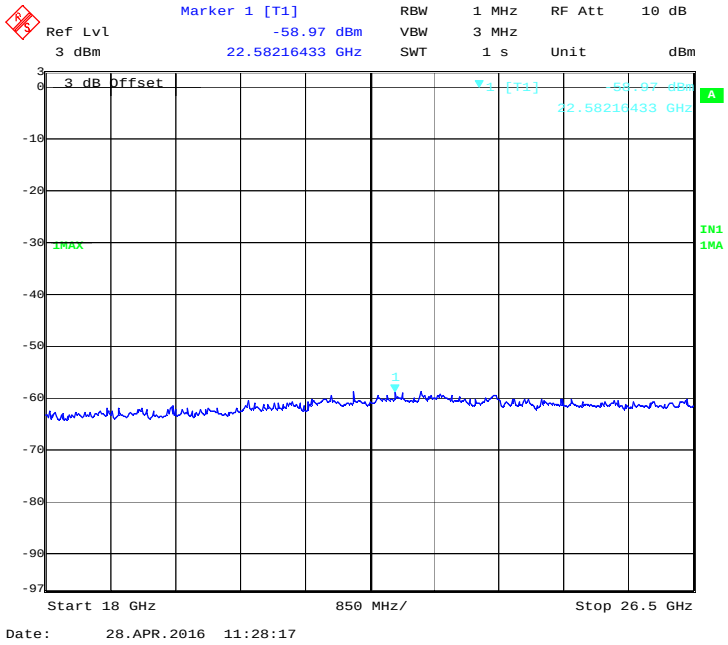

Figure 104: 40 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 –5700 MHz

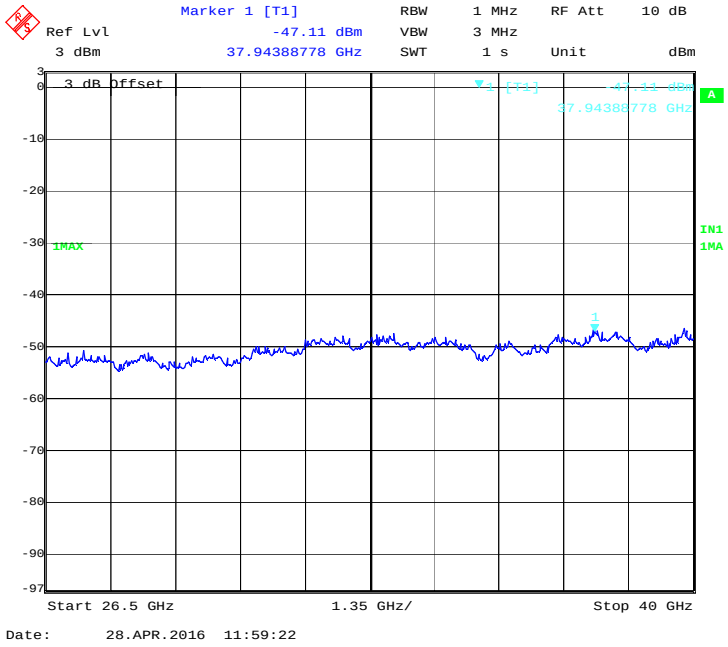

Figure 105: 40 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 –5700 MHz

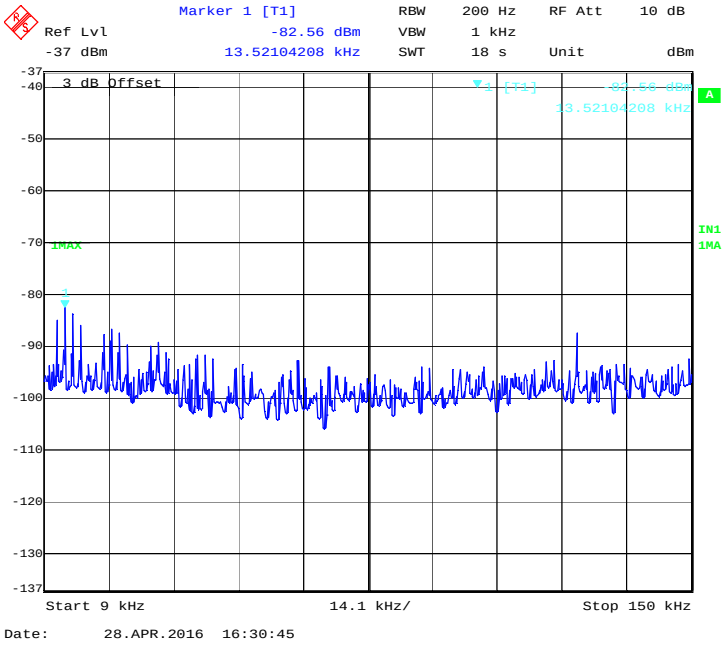

Figure 106: 10 MHz, 17 dBi, Low channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 –5485 MHz

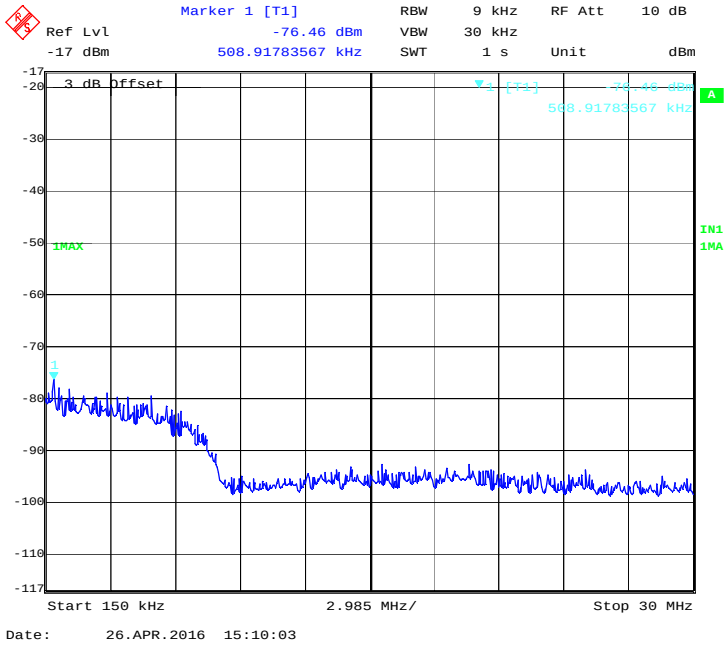

Figure 107: 10 MHz, 17 dBi, Low channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 –5485 MHz

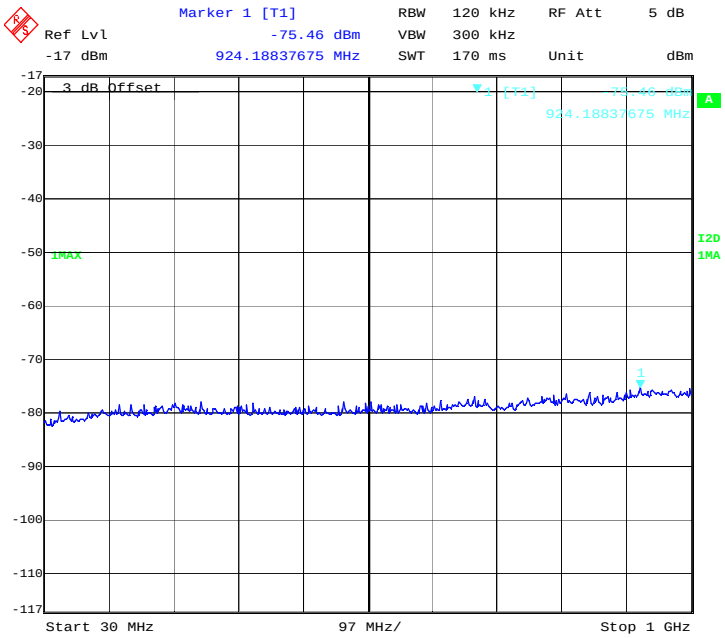

Figure 108: 10 MHz, 17 dBi, Low channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 –5485 MHz

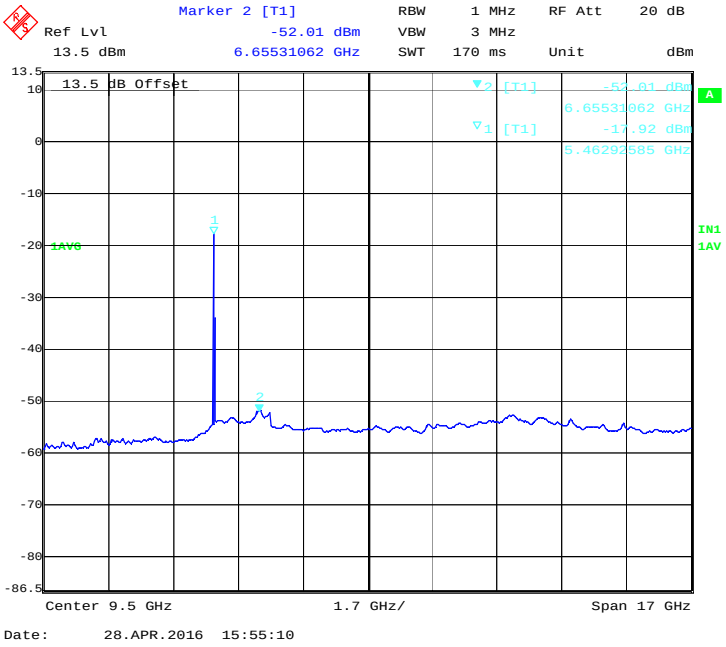

Figure 109: 10 MHz, 17 dBi, Low channel: Average emission from 1 GHz to 18 GHz at Ch. 0 –5485 MHz

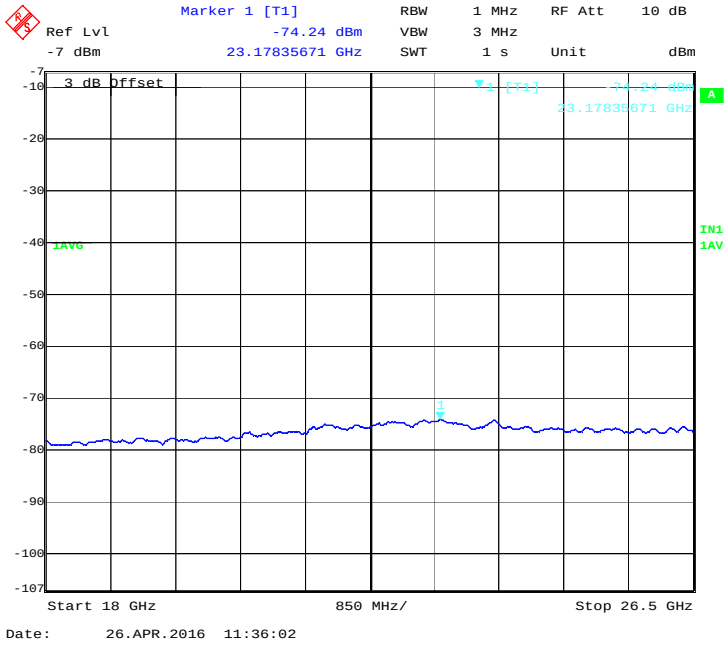

Figure 110: 10 MHz, 17 dBi, Low channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5485 MHz

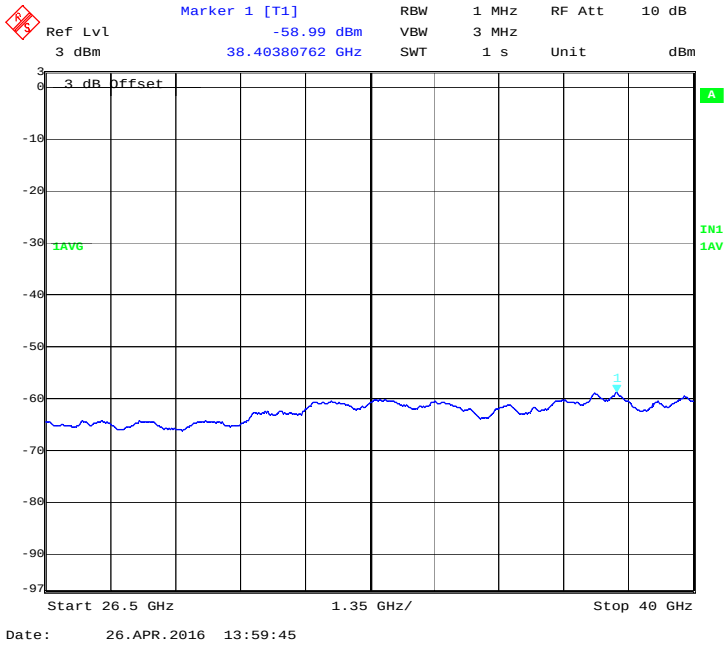

Figure 111: 10 MHz, 17 dBi, Low channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5485 MHz

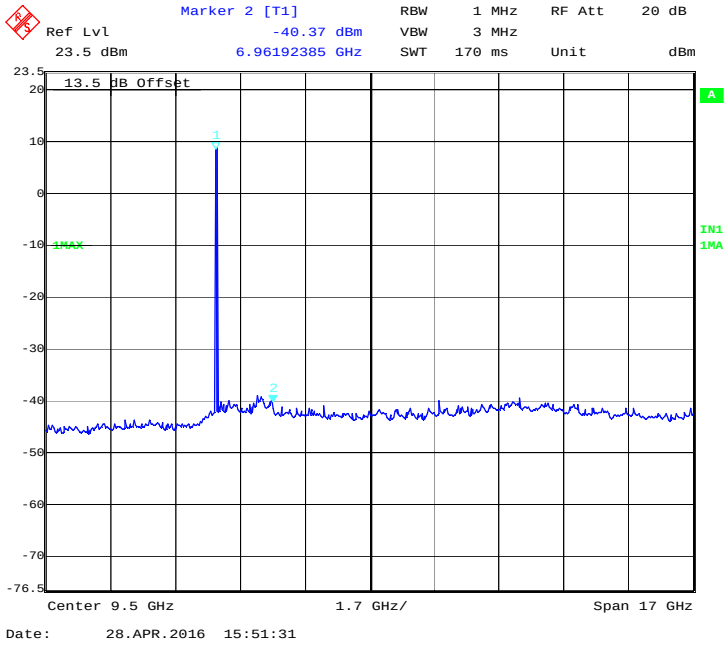

Figure 112: 10 MHz, 17 dBi, Low channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5485 MHz

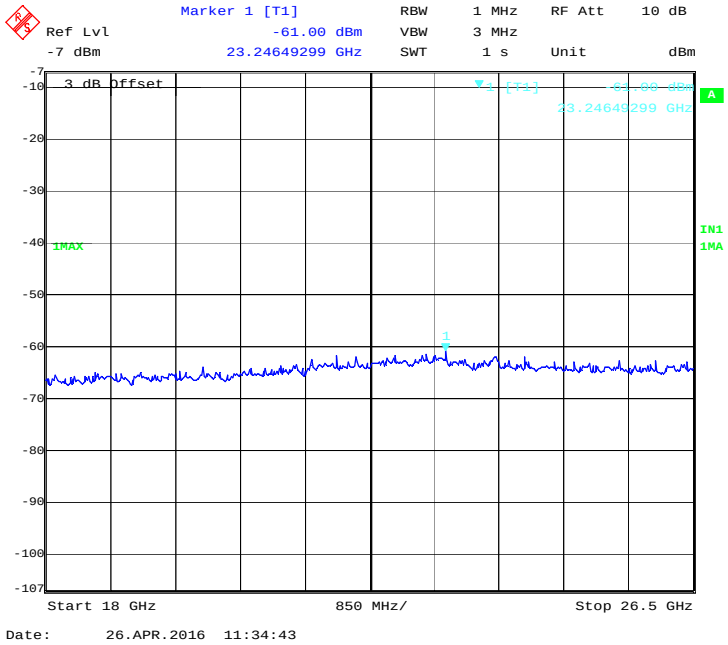

Figure 113: 10 MHz, 17 dBi, Low channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5485 MHz

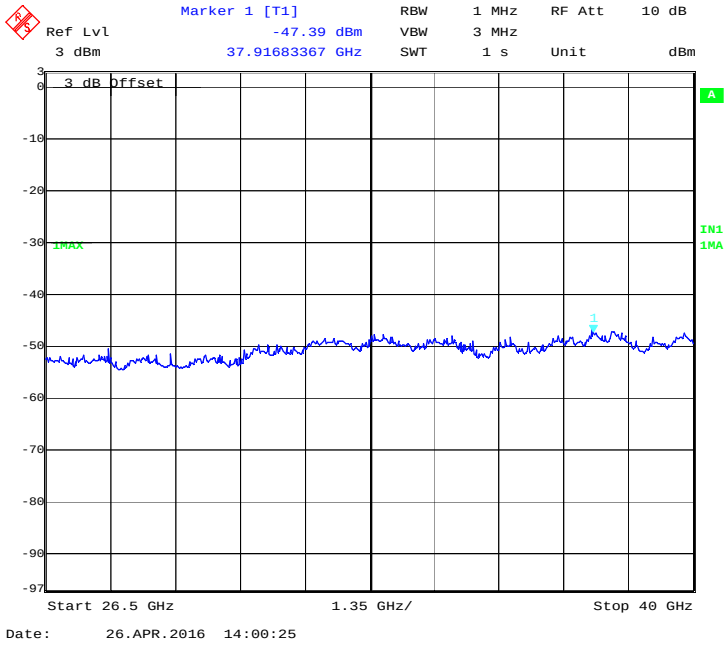

Figure 114: 10 MHz, 17 dBi, Low channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5485 MHz

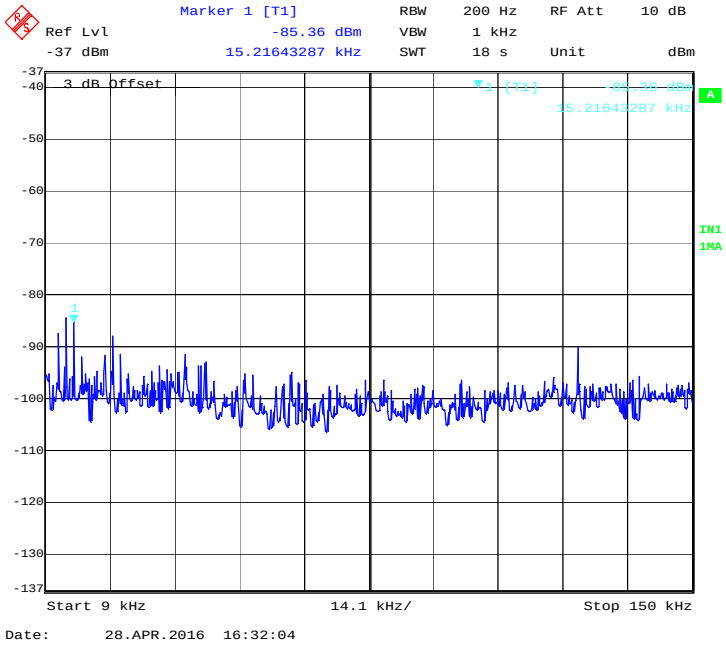

Figure 115: 10 MHz, 17 dBi, Low channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5485 MHz

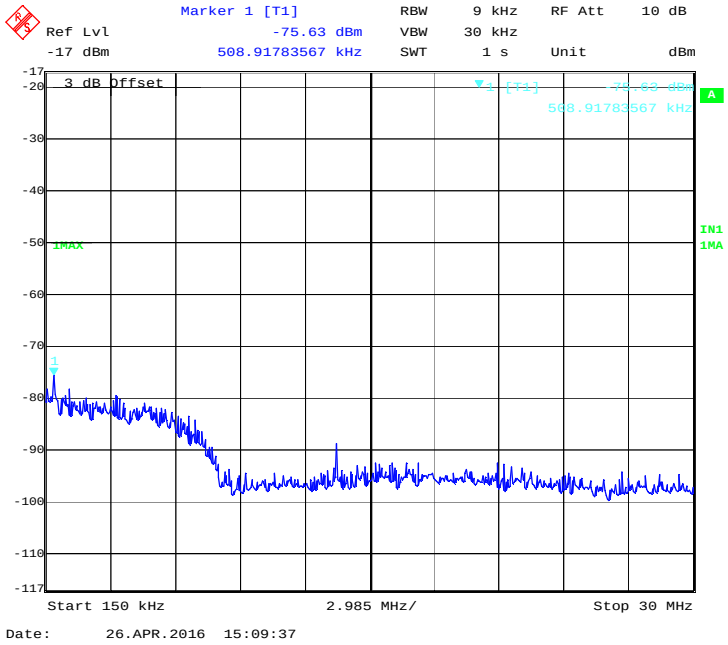

Figure 116: 10 MHz, 17 dBi, Low channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 –5485 MHz

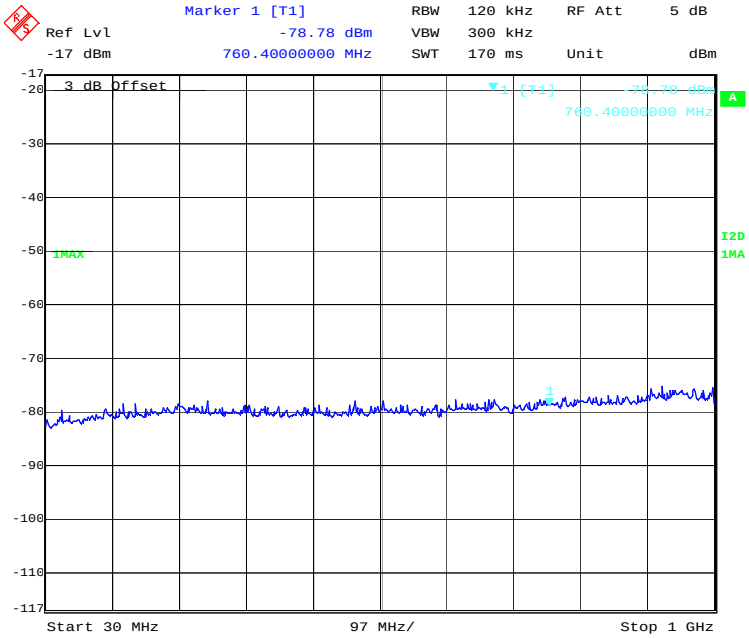

Figure 117: 10 MHz, 17 dBi, Low channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 –5485 MHz

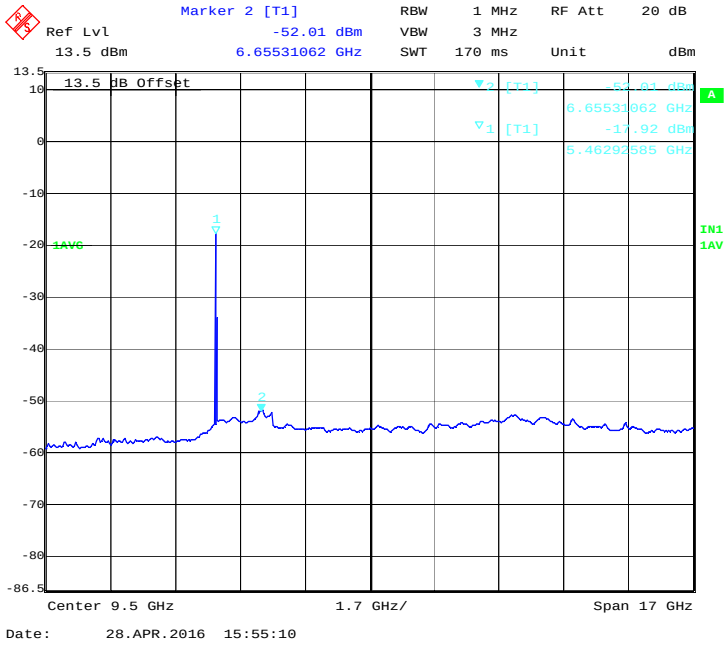

Figure 118: 10 MHz, 17 dBi, Low channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5485 MHz

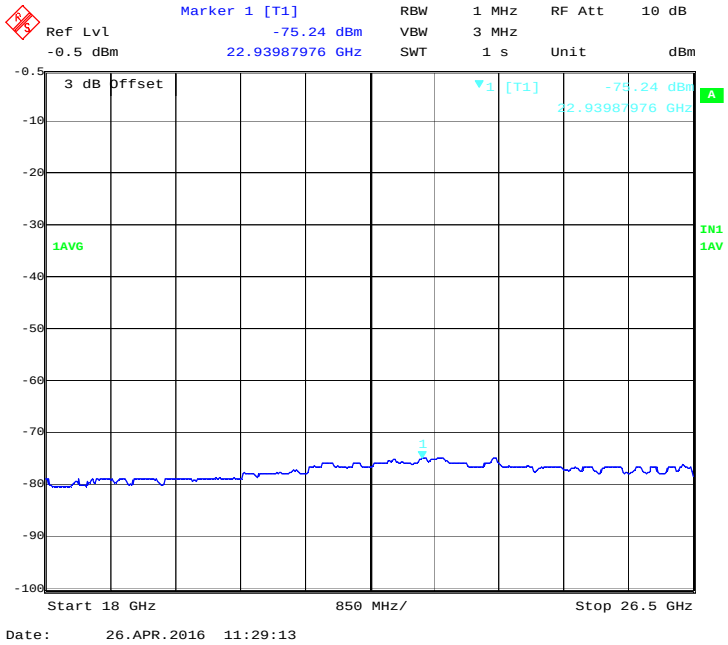

Figure 119: 10 MHz, 17 dBi, Low channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5485 MHz

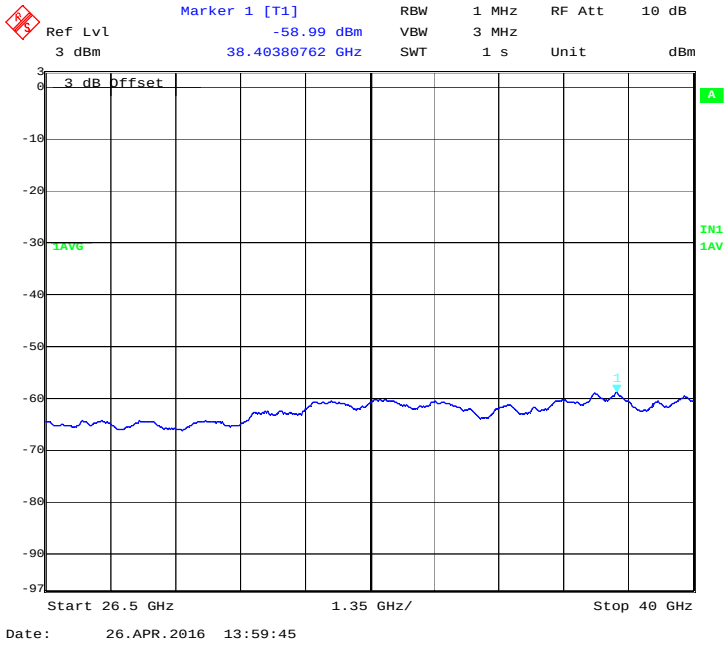

Figure 120: 10 MHz, 17 dBi, Low channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5485 MHz

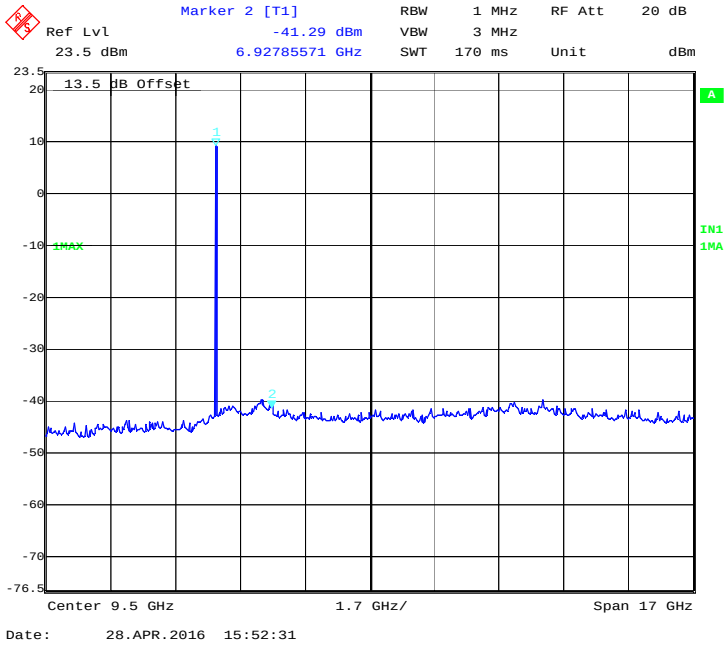

Figure 121: 10 MHz, 17 dBi, Low channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5485 MHz

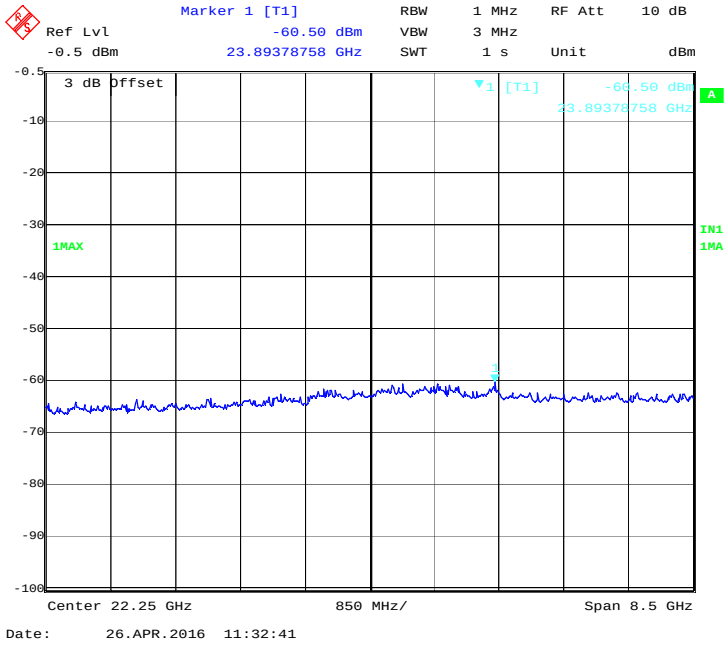

Figure 122: 10 MHz, 17 dBi, Low channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 –5485 MHz

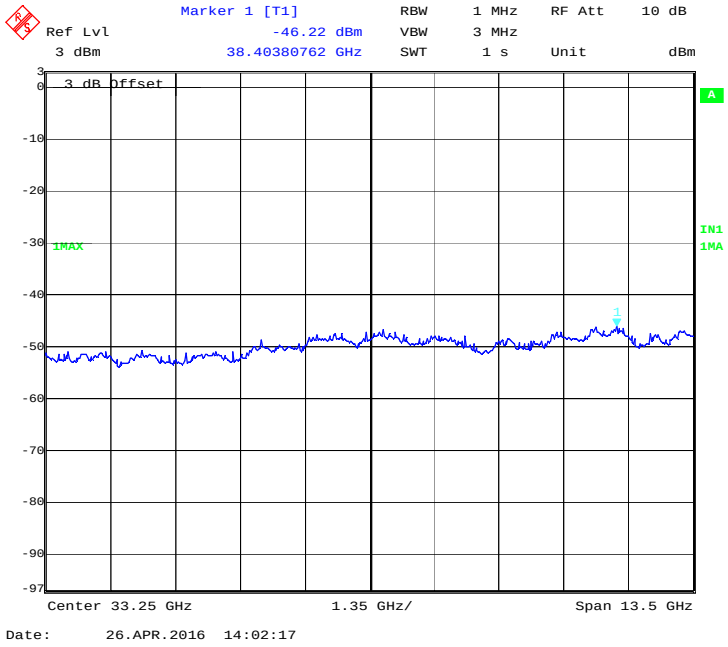

Figure 123: 10 MHz, 17 dBi, Low channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 –5485 MHz

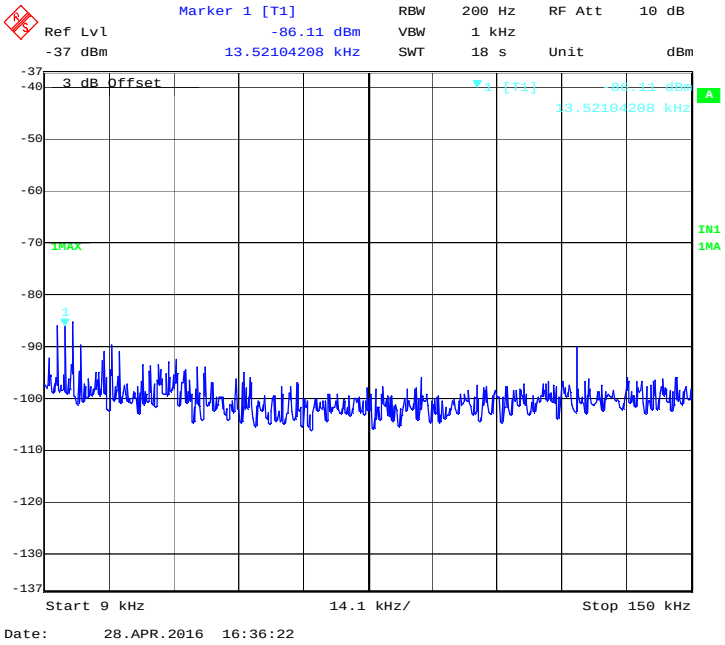

Figure 124: 10 MHz, 17 dBi, Mid channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 –5595 MHz

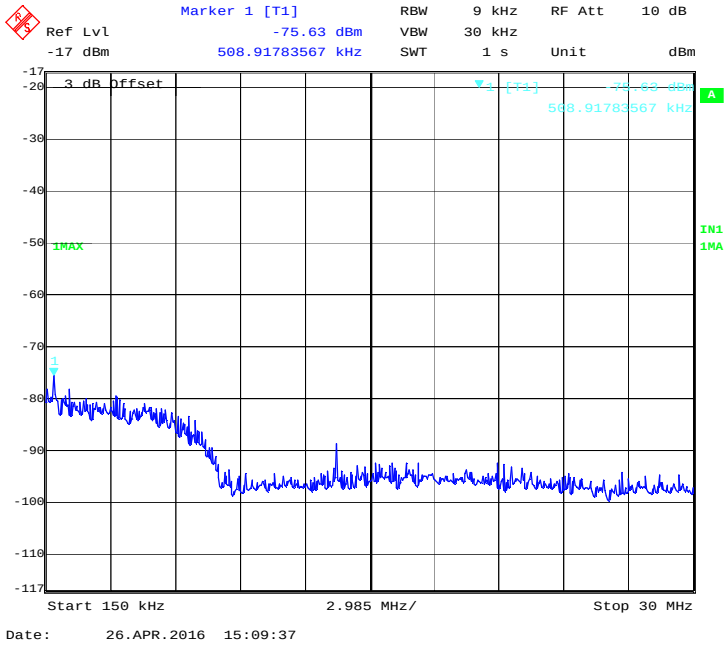

Figure 125: 10 MHz, 17 dBi, Mid channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 –5595 MHz

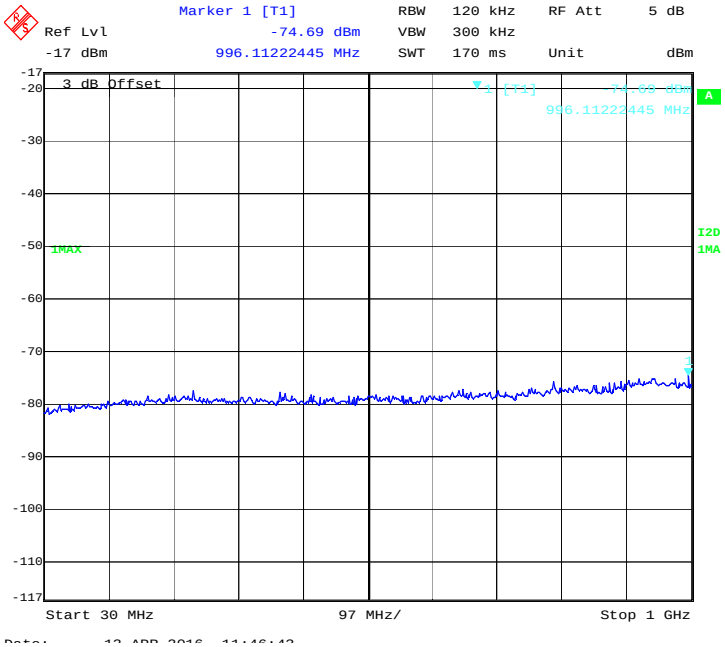

Figure 126: 10 MHz, 17 dBi, Mid channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 –5595 MHz

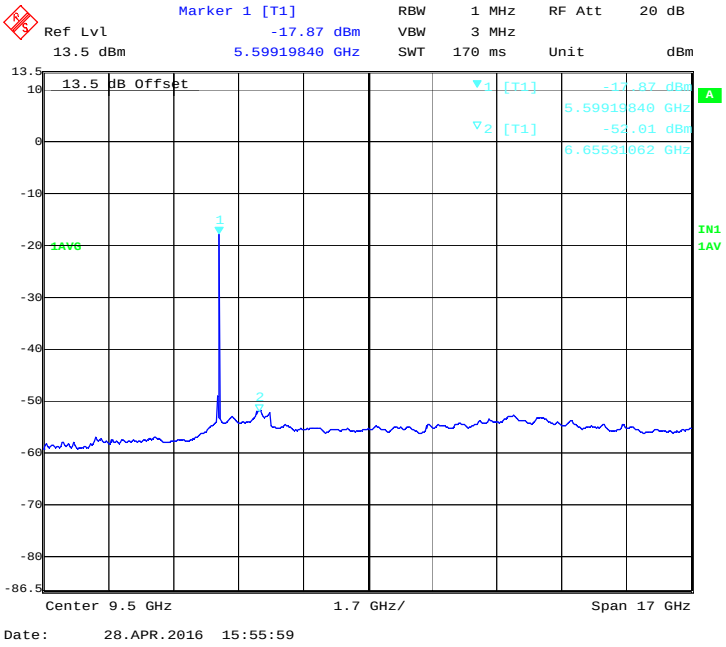

Figure 127: 10 MHz, 17 dBi, Mid channel: Average emission from 1 GHz to 18 GHz at Ch. 0 –5595 MHz

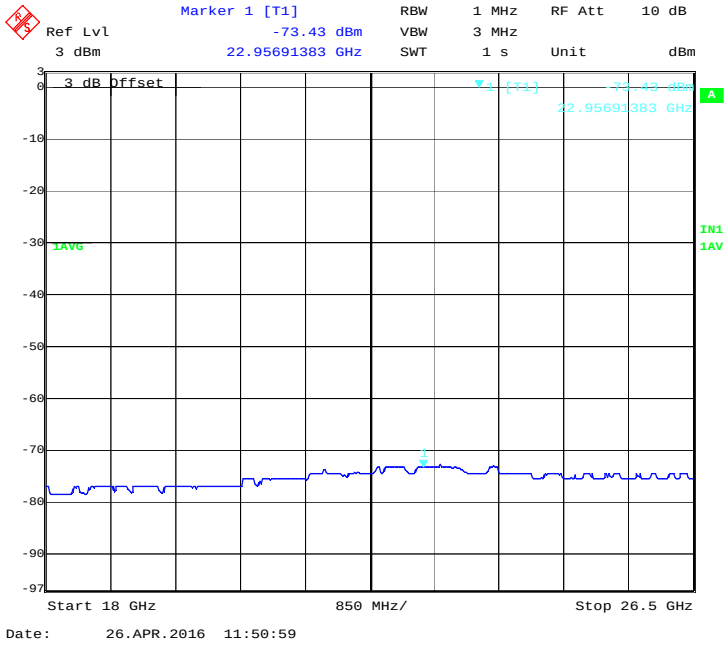

Figure 128: 10 MHz, 17 dBi, Mid channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5595 MHz

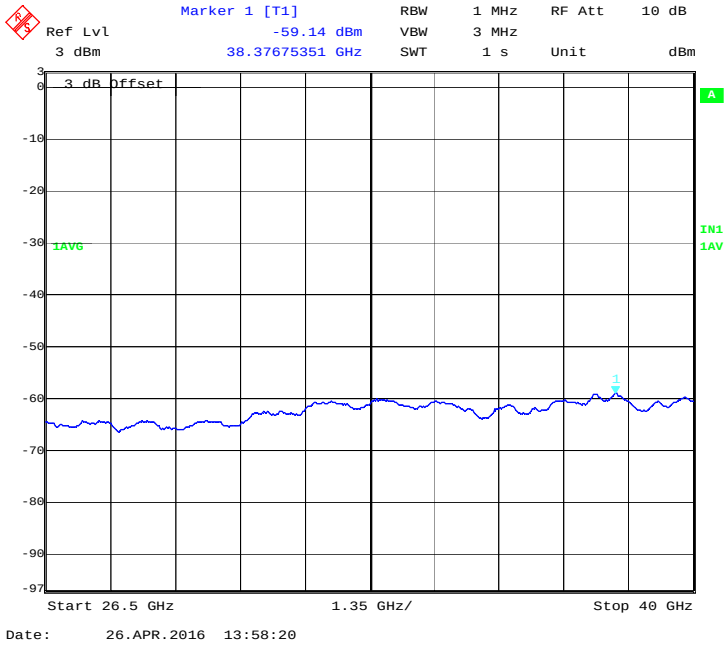

Figure 129: 10 MHz, 17 dBi, Mid channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5595 MHz

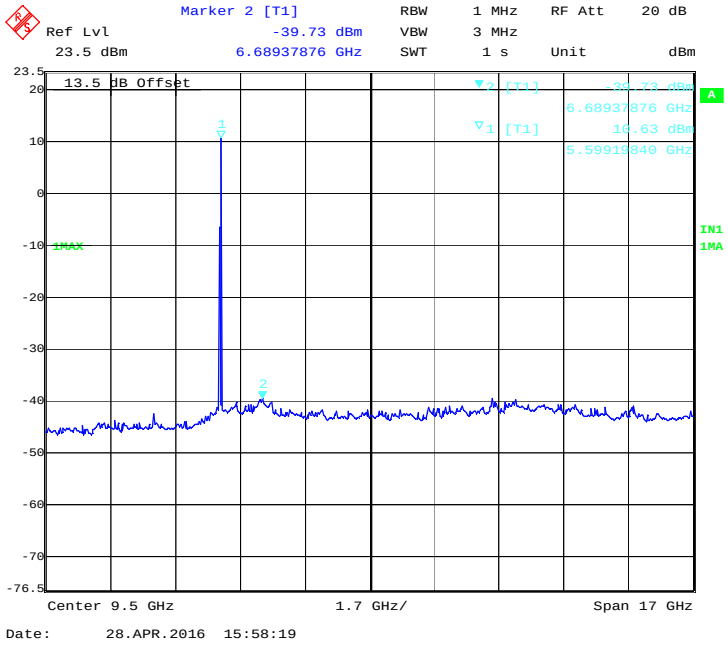

Figure 130: 10 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5595 MHz

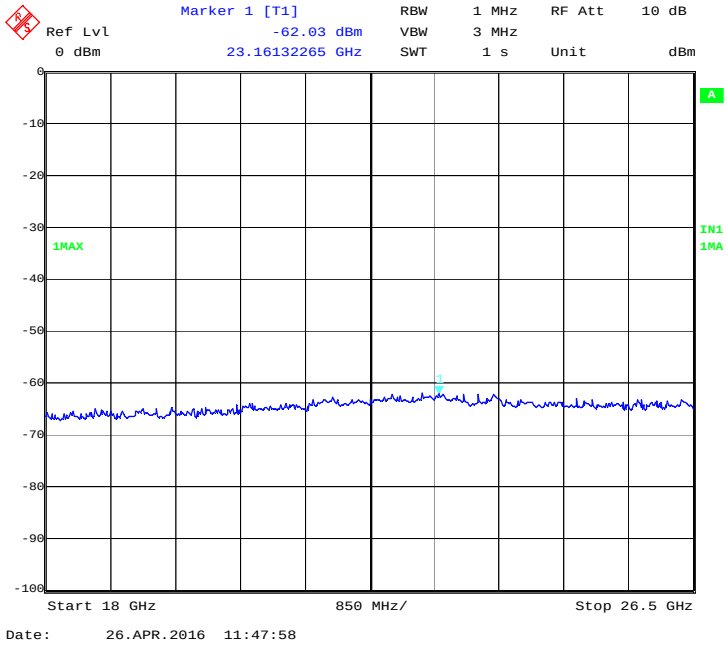

Figure 131: 10 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5595 MHz

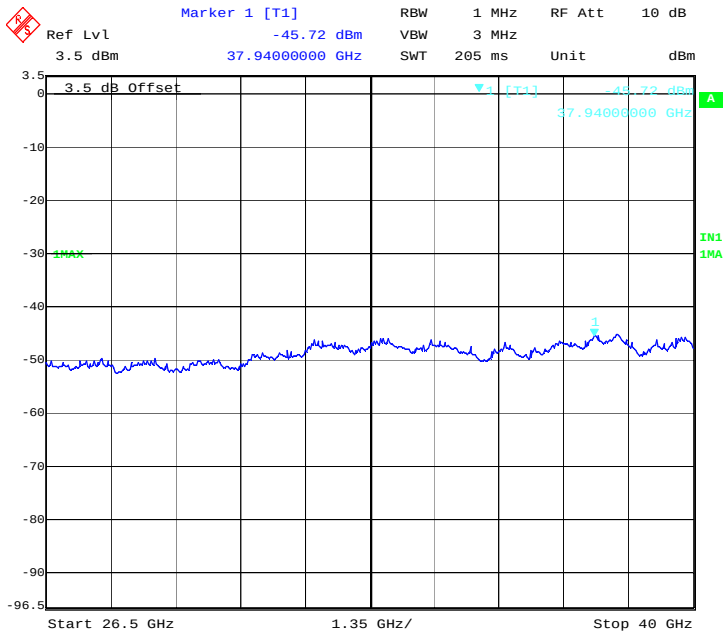

Figure 132: 10 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5595 MHz

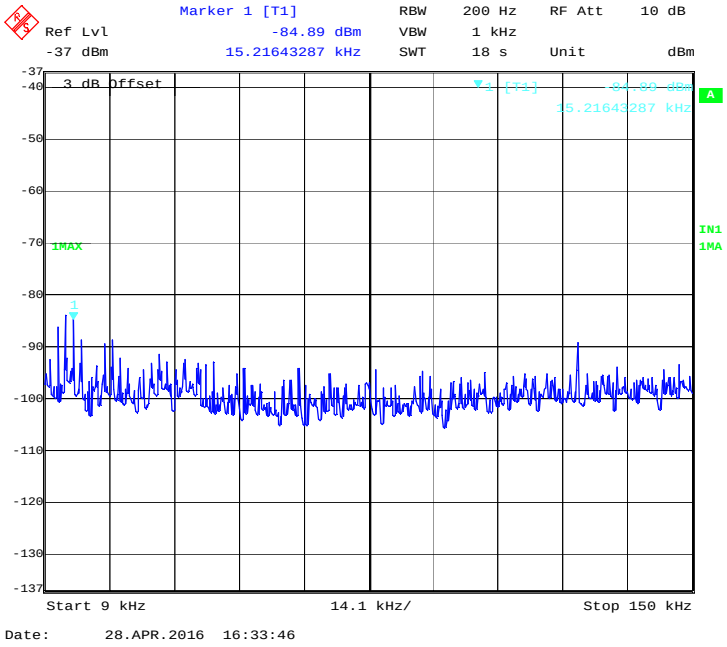

Figure 133: 10 MHz, 17 dBi, Mid channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5595 MHz

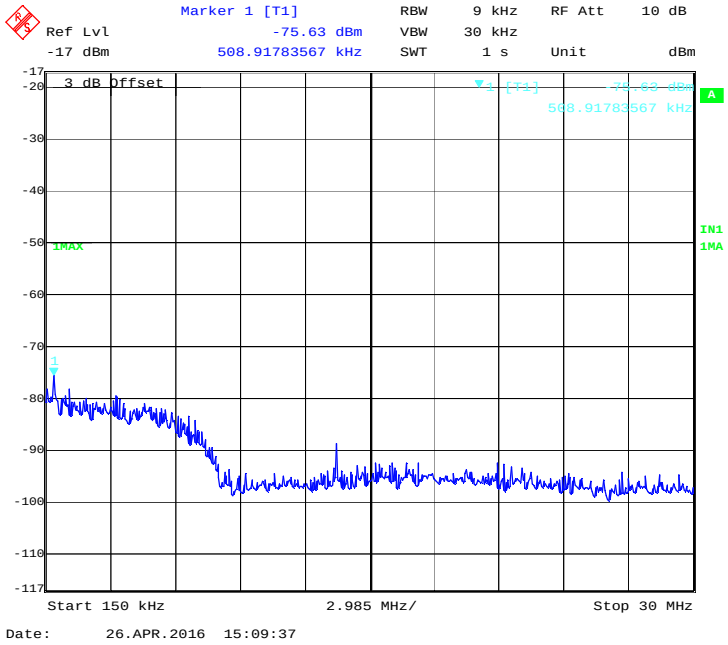

Figure 134: 10 MHz, 17 dBi, Mid channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 –5595 MHz

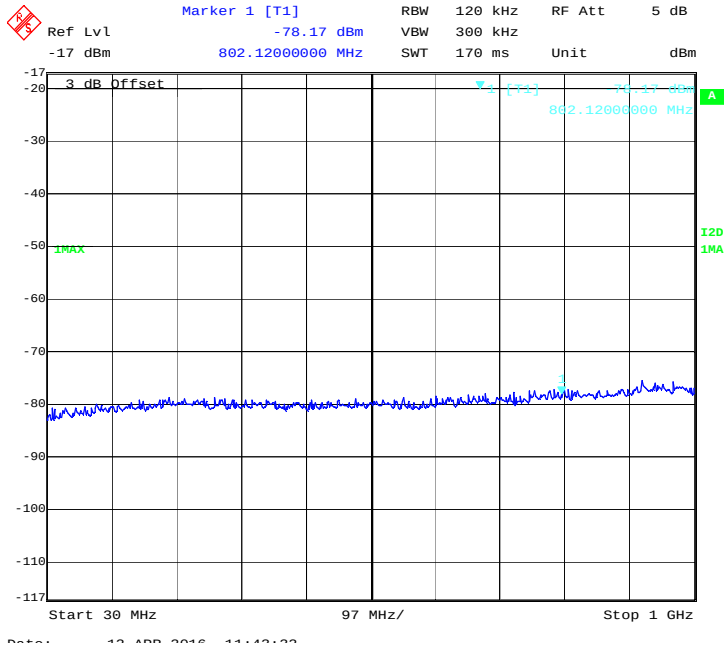

Figure 135: 10 MHz, 17 dBi, Mid channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 –5595 MHz

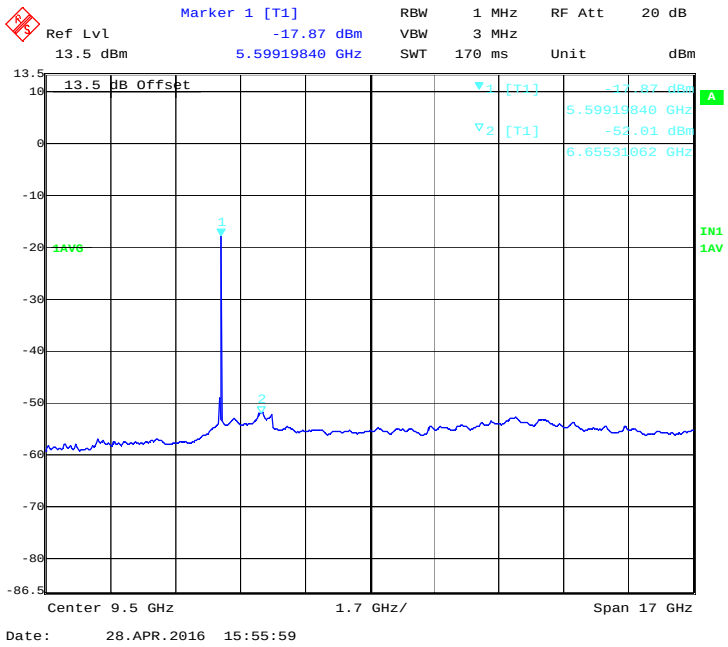

Figure 136: 10 MHz, 17 dBi, Mid channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5595 MHz

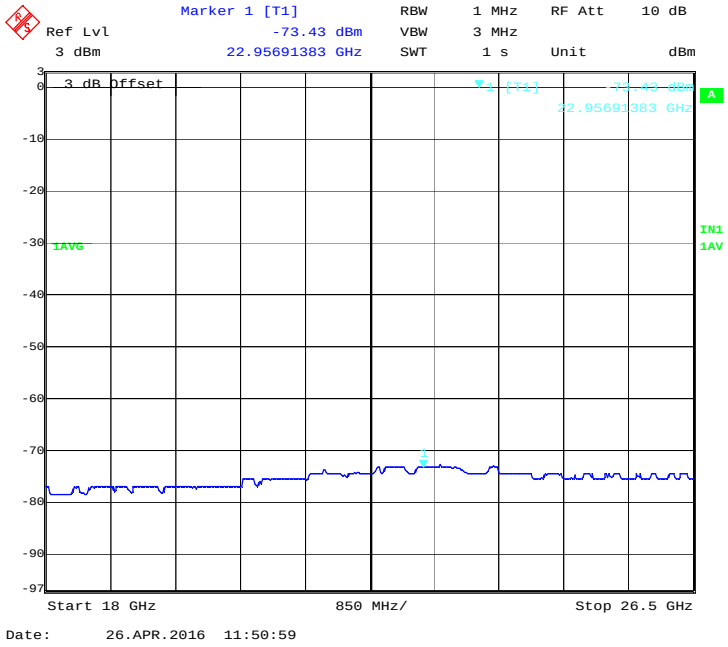

Figure 137: 10 MHz, 17 dBi, Mid channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5595 MHz

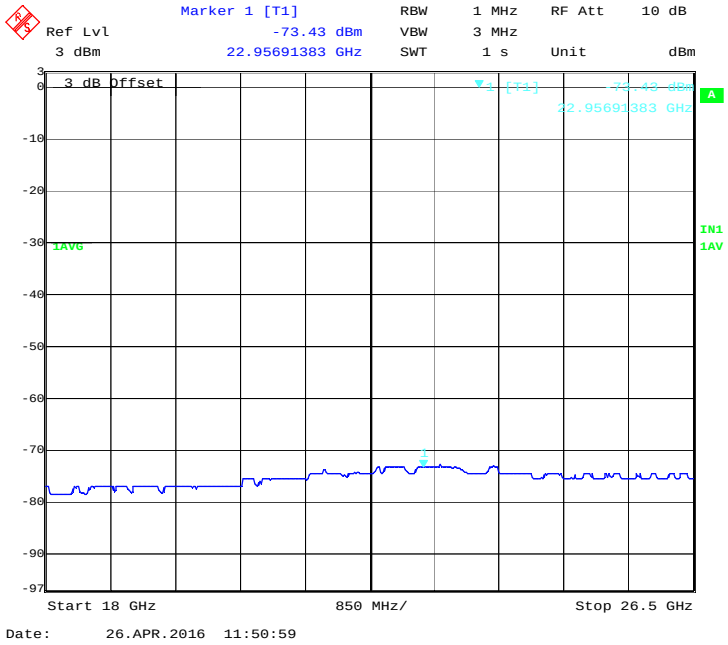

Figure 138: 10 MHz, 17 dBi, Mid channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5595 MHz

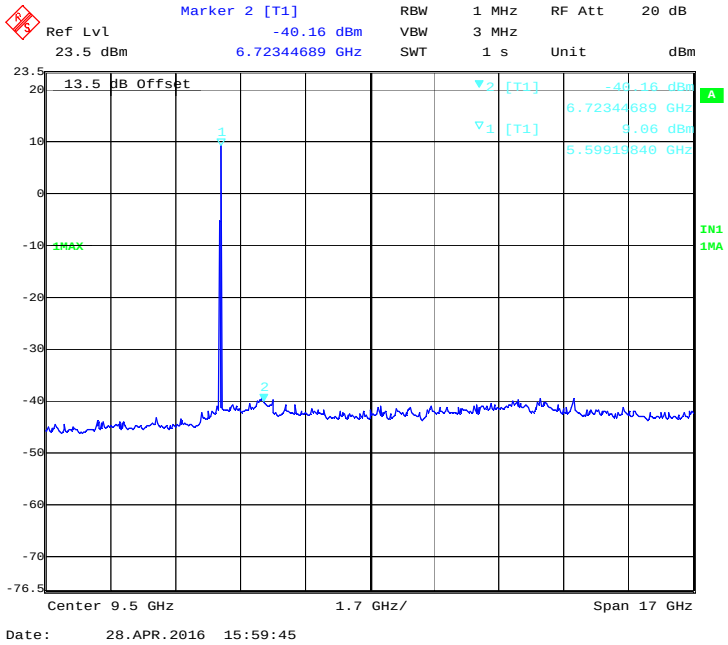

Figure 139: 10 MHz, 17 dBi, Mid channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5595 MHz

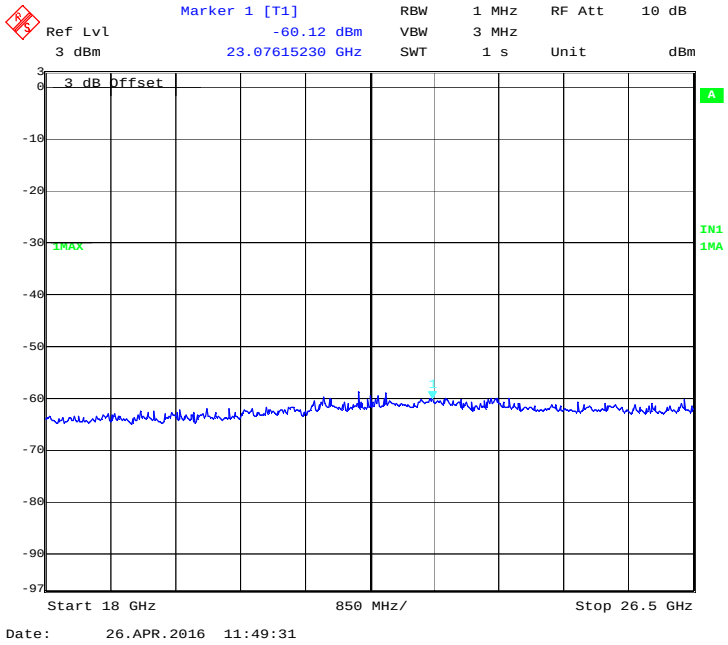

Figure 140: 10 MHz, 17 dBi, Mid channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 –5595 MHz

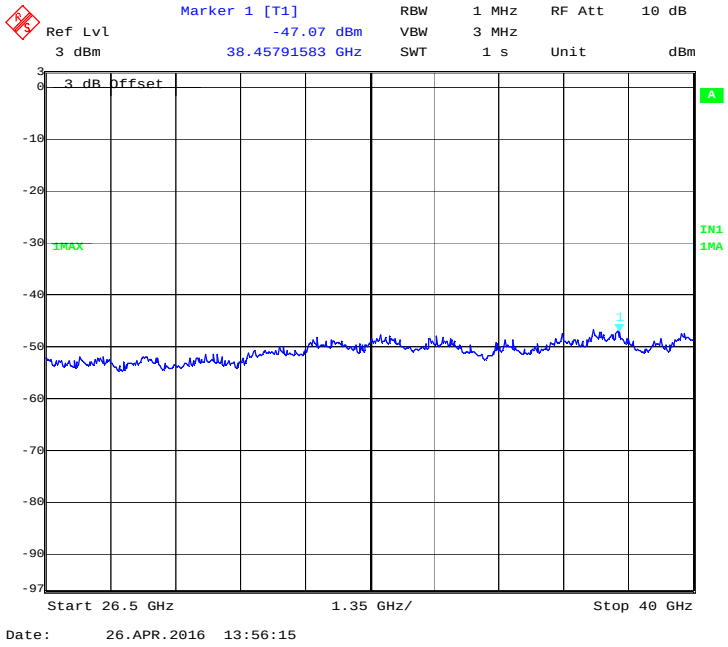

Figure 141: 10 MHz, 17 dBi, Mid channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 –5595 MHz

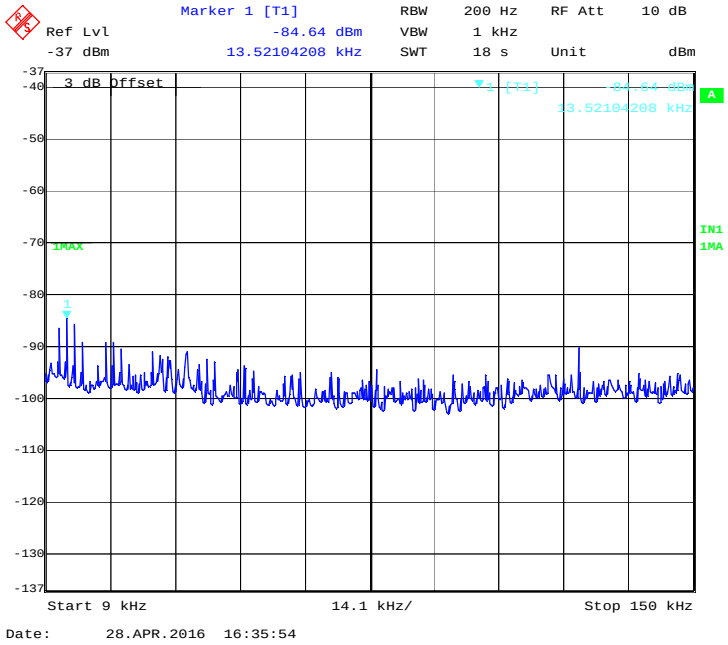

Figure 142: 10 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 0 –5710 MHz

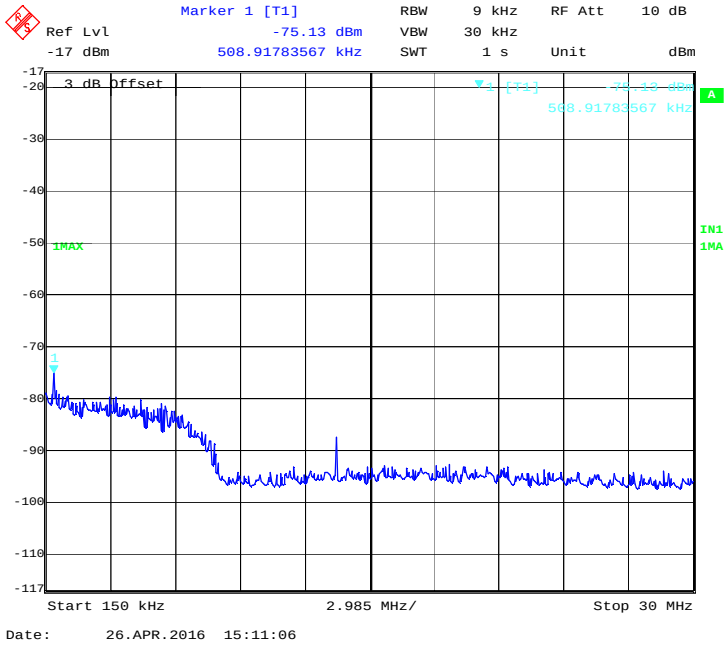

Figure 143: 10 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 0 –5710 MHz

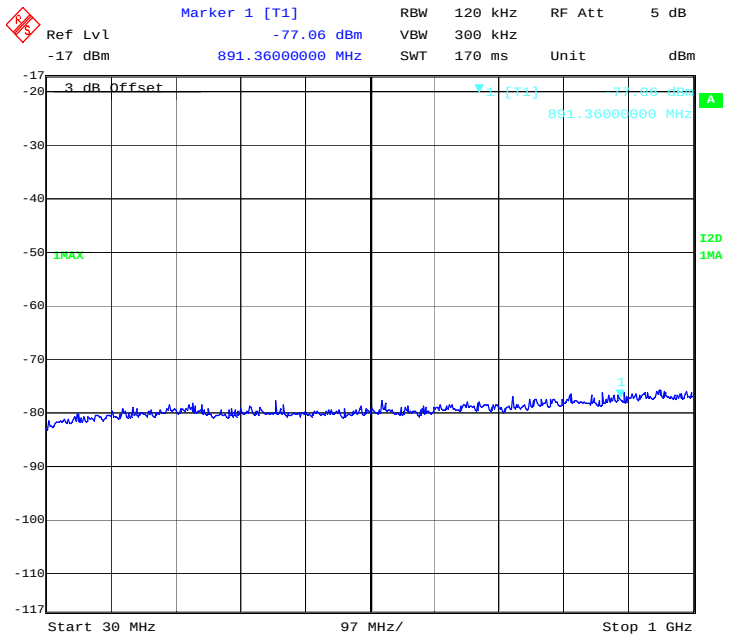

Figure 144: 10 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 0 –5710 MHz

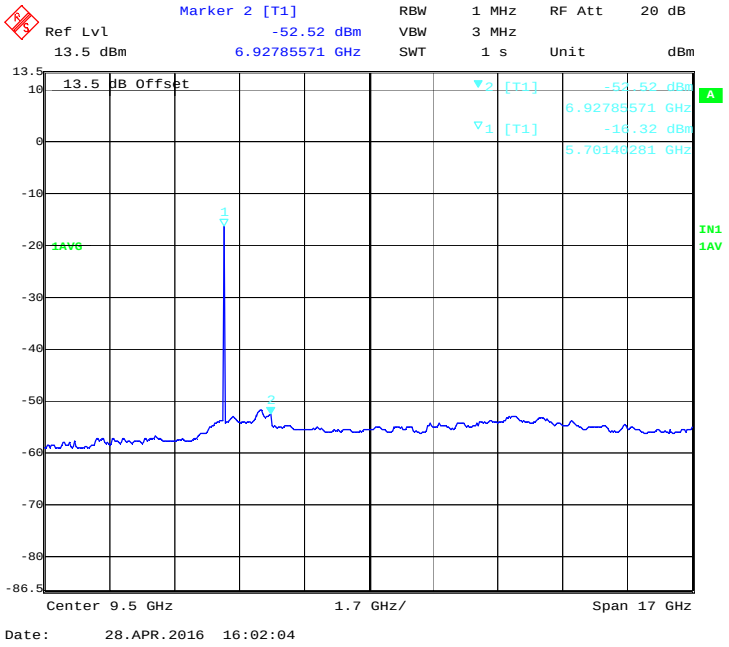

Figure 145: 10 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 0 –5710 MHz

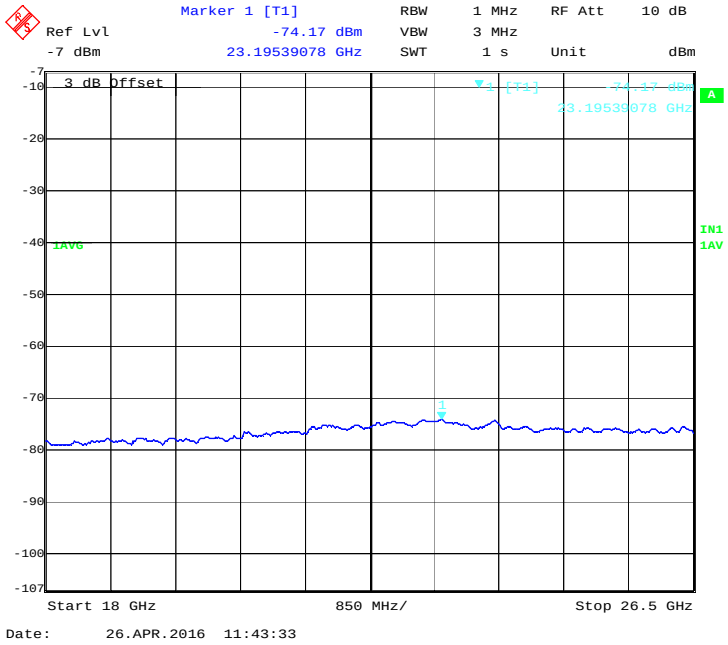

Figure 146: 10 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 0 –5710 MHz

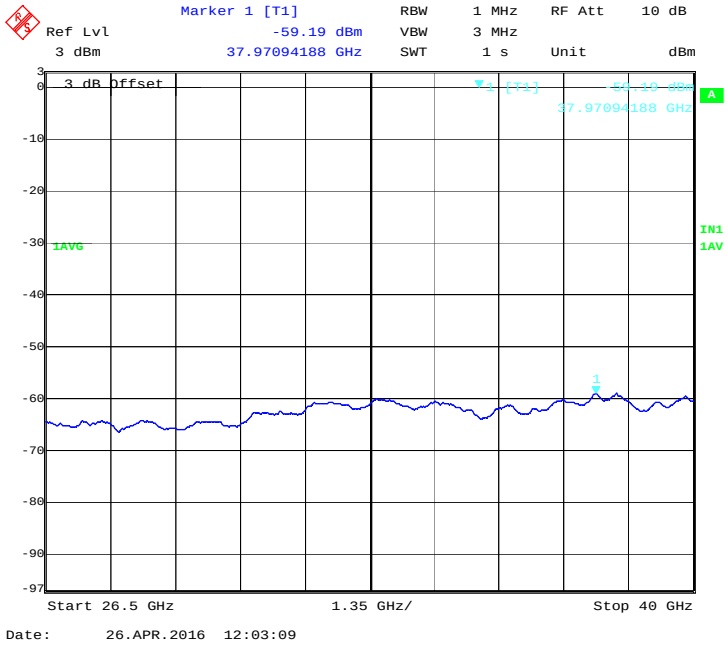

Figure 147: 10 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 0 –5710 MHz

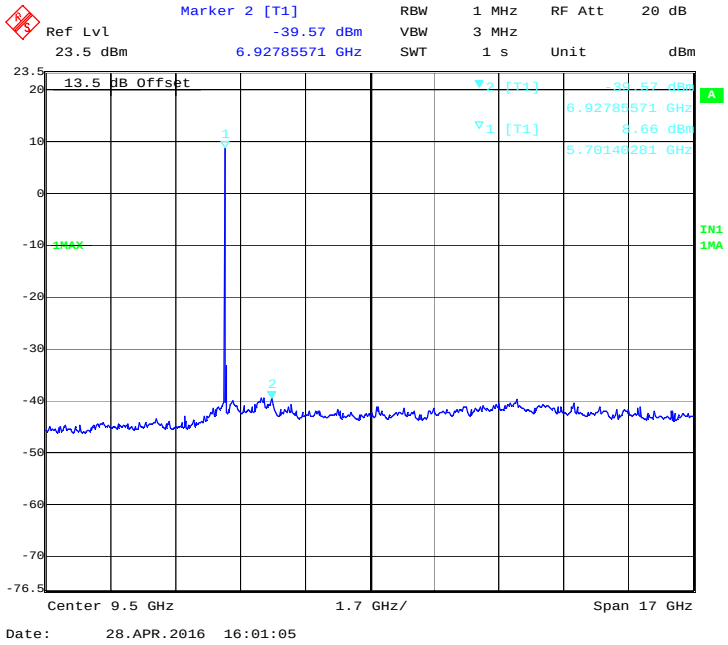

Figure 148: 10 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 0 –5710 MHz

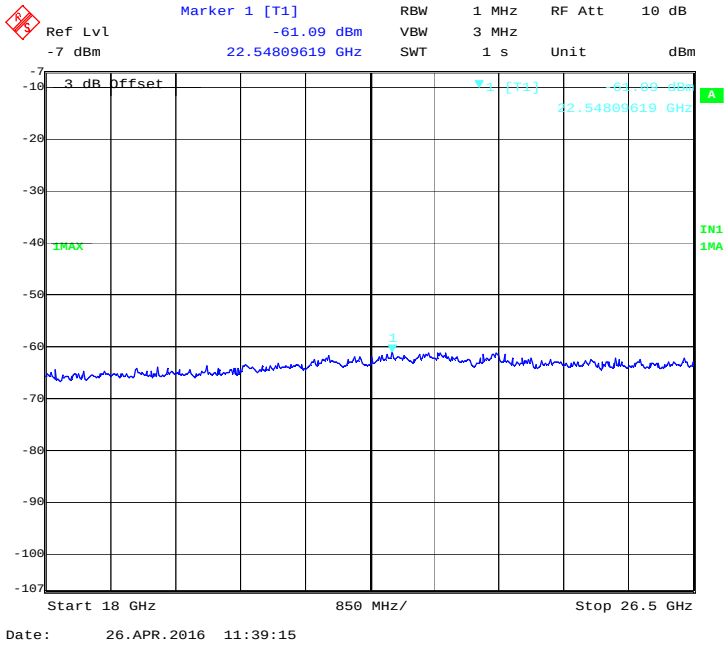

Figure 149: 10 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 0 –5710 MHz

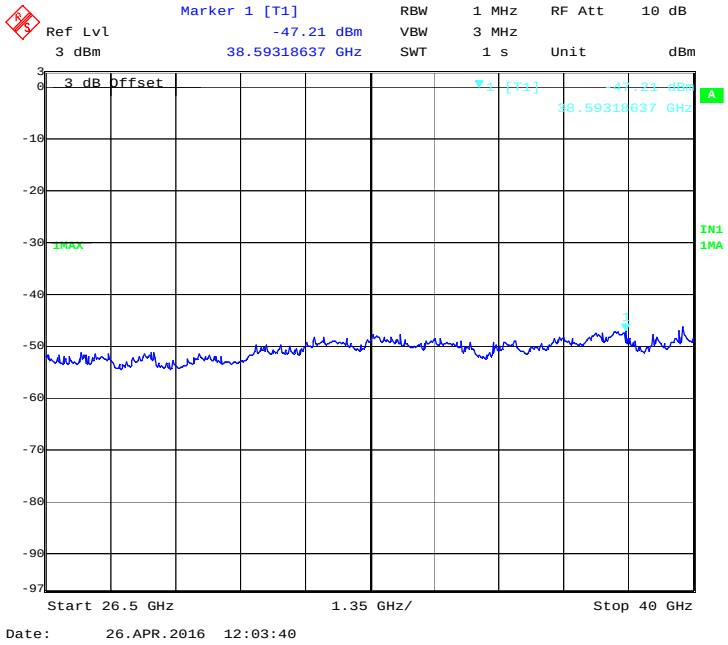

Figure 150: 10 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 0 –5710 MHz

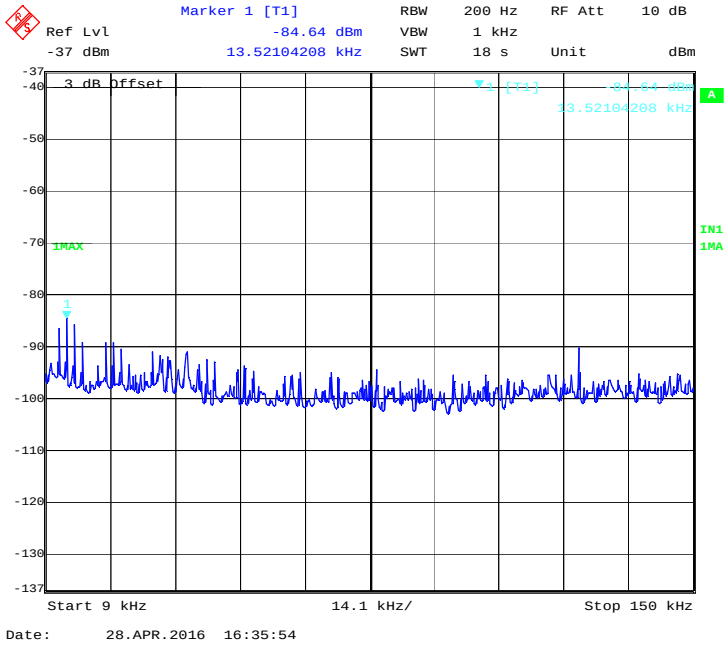

Figure 151: 10 MHz, 17 dBi, High channel: Peak emission from 9 kHz to 150 kHz at Ch. 1 –5710 MHz

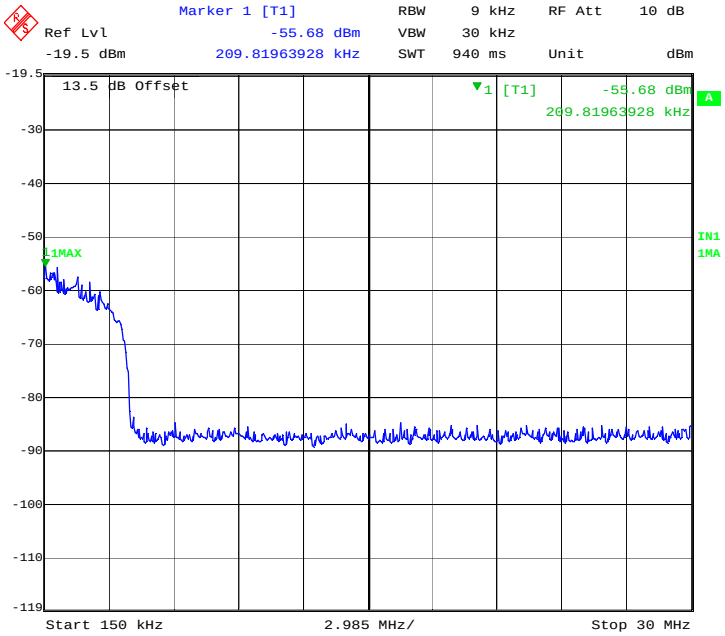

Figure 152: 10 MHz, 17 dBi, High channel: Peak emission from 150 kHz to 30 MHz at Ch. 1 –5710 MHz

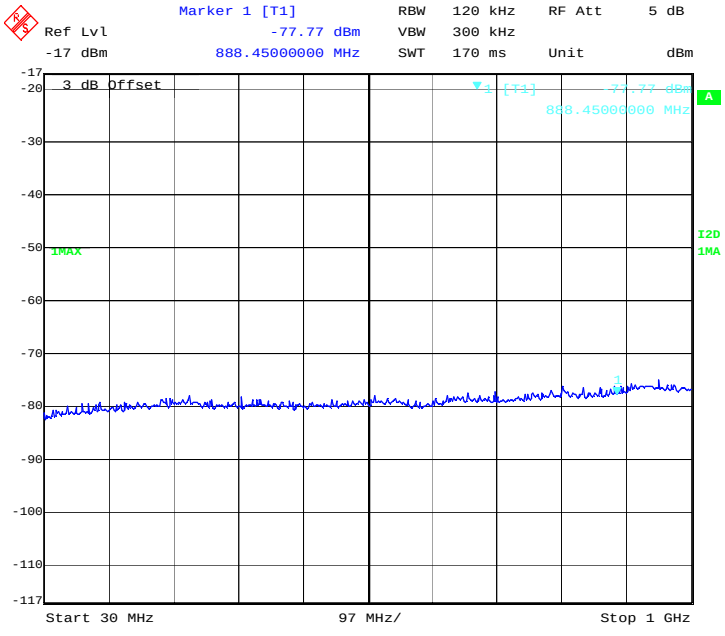

Figure 153: 10 MHz, 17 dBi, High channel: Peak emission from 30 MHz to 1 GHz at Ch. 1 –5710 MHz

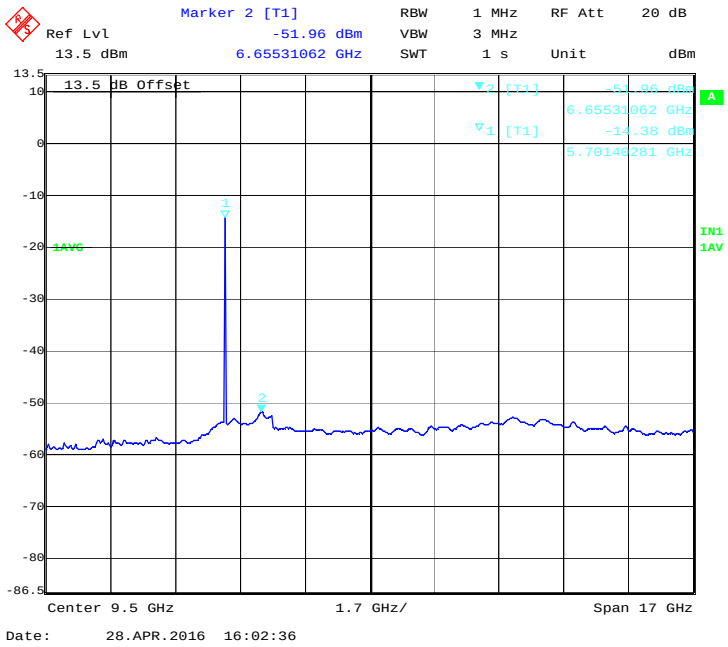

Figure 154: 10 MHz, 17 dBi, High channel: Average emission from 1 GHz to 18 GHz at Ch. 1 –5710 MHz

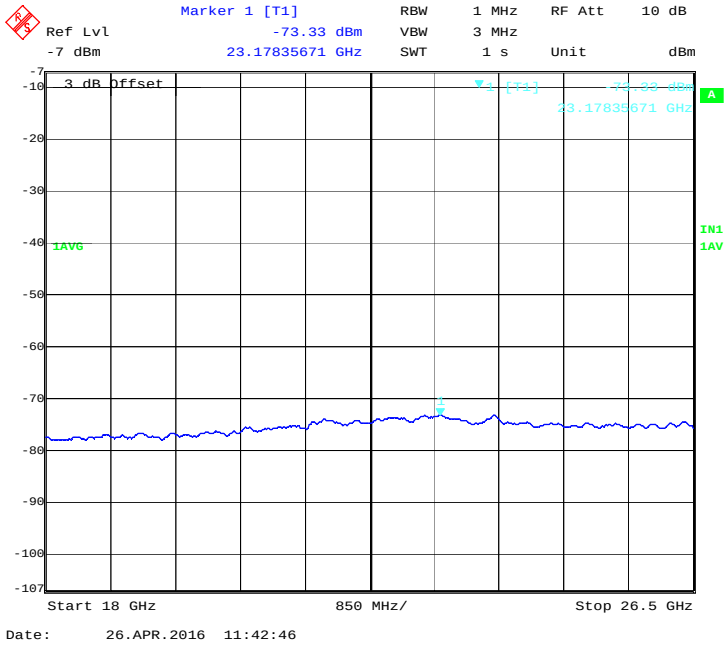

Figure 155: 10 MHz, 17 dBi, High channel: Average emission from 18 GHz to 26.5 GHz at Ch. 1 –5710 MHz

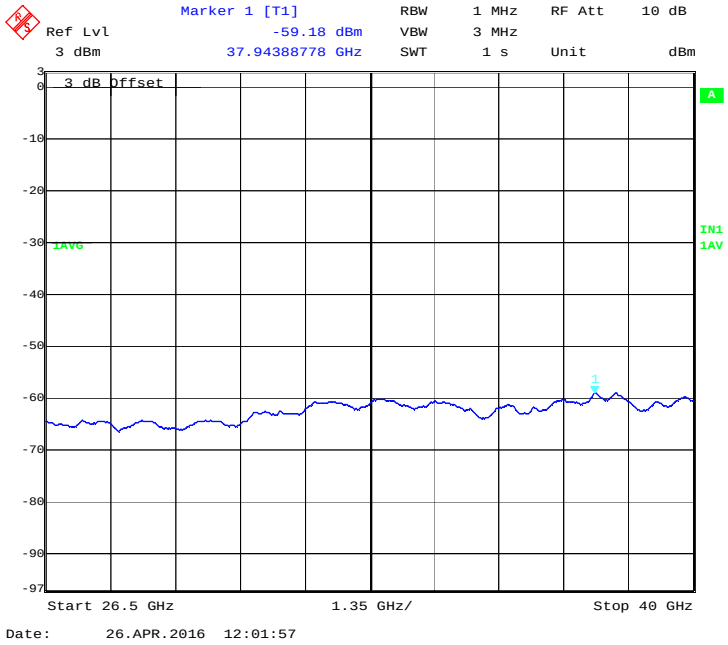

Figure 156: 10 MHz, 17 dBi, High channel: Average emission from 26.5 GHz to 40 GHz at Ch. 1 –5710 MHz

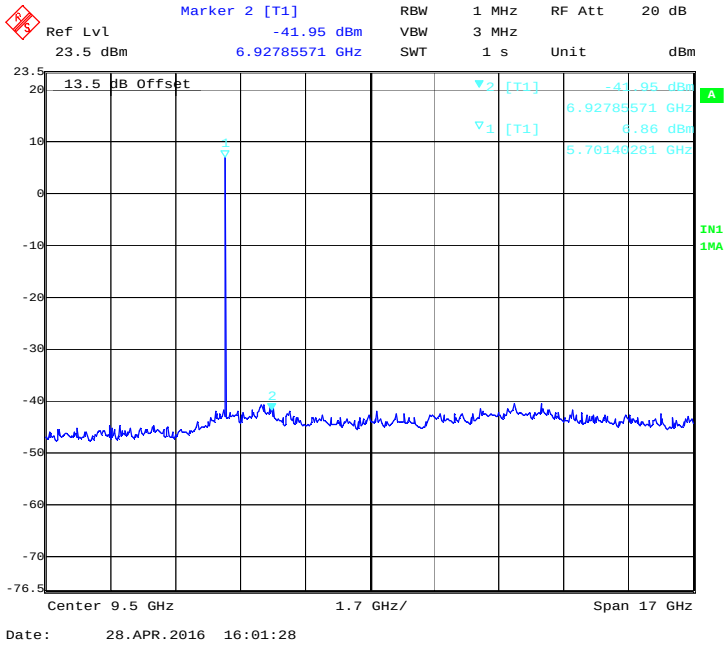

Figure 157: 10 MHz, 17 dBi, High channel: Peak emission from 1 GHz to 18 GHz at Ch. 1 –5710 MHz

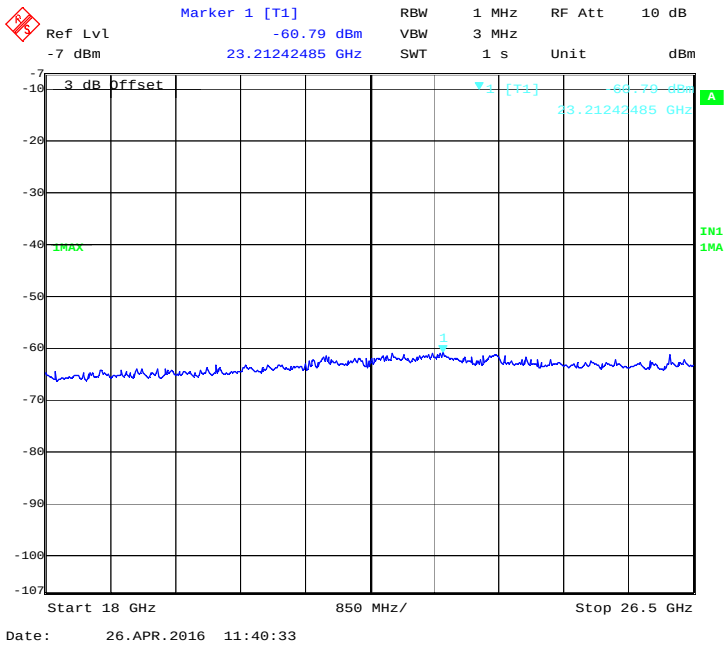

Figure 158: 10 MHz, 17 dBi, High channel: Peak emission from 18 GHz to 26.5 GHz at Ch. 1 –5710 MHz

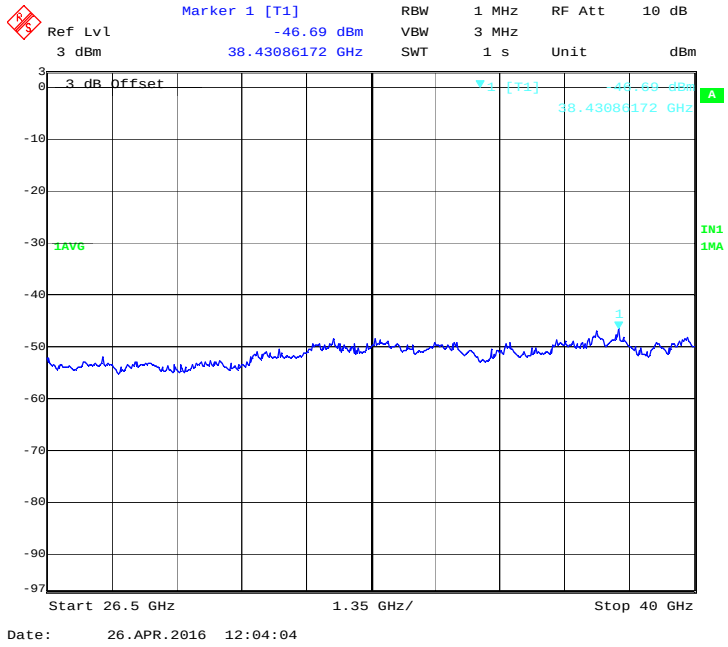

Figure 159: 10 MHz, 17 dBi, High channel: Peak emission from 26.5 GHz to 40 GHz at Ch. 1 –5710 MHz

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	16.62 k	-66.85	16.62k	-66.85	17.00	-43.85	-43.85	-40.84	54.42	120.52	-66.10
	PK	20 M	-62.21	20.01M	-65.97	17.00	-39.21	-42.97	-37.68	57.57	69.54	-11.97
	PK	906.69M	-75.16	906.69M	-75.16	17.00	-53.46	-53.46	-50.45	44.81	46.02	-1.21
	AVG	6.689G	-52.98	6.62G	-52.98	17.00	-35.98	-35.98	-32.97	62.29	80.00	-17.71
	AVG	23.17G	-72.08	22.97	-72.09	17.00	-55.08	-55.09	-52.07	43.18	54.00	-10.82
	AVG	38.4G	-58.97	37.9G	-59.11	17.00	-41.97	-42.11	-39.03	56.23	80.00	-23.77
	PK	6.75G	-40.74	6.655G	-40.78	17.00	-23.74	-23.78	-20.75	74.51	80.00	-5.49
	PK	23.17G	-59.12	23.17G	-59.12	17.00	-42.12	-42.12	-39.11	56.15	74.00	-17.85
	PK	38.4G	-46.29	34.88G	-48.10	17.00	-29.29	-31.10	-27.09	68.17	80.00	-11.83
Mid	PK	16.62k	-67.36	16.62k	-67.39	17.00	-44.36	-44.39	-41.36	53.89	120.52	-66.63
	PK	20.01M	-60.97	20.01M	-60.97	17.00	-37.97	-37.97	-34.96	60.30	69.54	-9.24
	PK	908.63M	-76.40	385.90	-79.31	17.00	-54.70	-57.61	-52.91	42.35	46.02	-3.67
	AVG	6.672G	-51.98	6.655G	-51.96	17.00	-35.98	-34.96	-32.43	62.83	80.00	-17.17
	AVG	23.87G	-72.07	23.16G	-71.98	17.00	-55.07	-54.98	-52.01	43.24	54.00	-10.76
	AVG	38.40G	-59.10	38.37G	-59.15	17.00	-42.10	-42.15	-39.11	56.14	80.00	-23.86
	PK	6.687G	-40.14	6.69G	-39.12	17.00	-24.10	-22.12	-19.99	75.27	80.00	-4.73
	PK	23.21G	-58.73	23.14G	-59.23	17.00	-41.73	-42.23	-38.96	56.30	74.00	-17.70
	PK	37.94G	-46.61	37.94G	-45.61	17.00	-29.61	-28.61	-26.07	69.19	80.00	-10.81
High	PK	16.62k	-67.02	16.62k	-67.02	17.00	-44.02	-44.02	-41.01	54.25	120.52	-66.27
	PK	20.01M	-62.31	20.01M	-64.33	17.00	-39.31	-41.33	-37.19	58.06	69.54	-11.48
	PK	861.29M	-78.24	86.21M	-78.24	17.00	-56.54	-65.94	-56.07	39.19	46.02	-6.83
	AVG	6.65G	-52.80	6.655G	-52.98	17.00	-35.80	-35.98	-32.88	62.38	80.00	-17.62
	AVG	23.87G	-71.98	23.87G	-71.98	17.00	-54.98	-54.98	-51.97	43.29	54.00	-10.71
	AVG	38.37G	-59.17	38.37G	-59.17	17.00	-42.17	-42.17	-39.16	56.10	80.00	-23.90
	PK	6.92G	-39.75	6.85G	-41.05	17.00	-22.75	-24.05	-20.34	74.92	80.00	-5.08
	PK	22.47G	-59.52	22.5G	-58.97	17.00	-42.52	-41.97	-39.23	56.03	74.00	-17.97
	PK	38.4G	-46.64	37.94G	-47.11	17.00	-29.64	-30.11	-26.86	68.40	80.00	-11.60

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/AVG)	(Hz)	(dBm)	(Hz)	(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBµV/m)		(dB)
Low	PK	13.52k	-82.56	15.21k	-85.36	17.00	-59.56	-62.36	-57.73	37.53	120.52	-82.99
	PK	508.91k	-76.46	508.91k	-75.63	17.00	-53.46	-52.63	-50.01	45.24	69.52	-24.28
	PK	924.18M	-75.46	760.40M	-78.78	17.00	-53.76	-57.08	-52.10	43.16	46.02	-2.86
	AVG	6.655G	-52.01	6.655G	-52.01	17.00	-35.01	-35.01	-32.00	63.26	80.00	-16.74
	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	-58.99	38.4G	-58.99	17.00	-41.99	-41.99	-38.98	56.28	80.00	-23.72
	PK	6.69G	-40.37	6.927G	-41.29	17.00	-23.37	-24.29	-20.80	74.46	80.00	-5.54
	PK	23.24G	-61.00	23.89G	-60.50	17.00	-44.00	-43.50	-40.73	54.53	74.00	-19.47
	PK	37.91G	-18.51	38.4G	-46.22	17.00	-1.51	-29.22	-1.50	93.75	80.00	13.75
Mid	PK	13.52k	-86.11	15.21k	-84.89	17.00	-63.11	-61.89	-59.45	35.81	120.52	-84.71
	PK	508k	-75.63	508.91k	-75.63	17.00	-52.63	-52.63	-49.62	45.64	73.80	-28.16
	PK	996.11M	-74.65	802.13	-78.17	17.00	-52.95	-56.47	-51.35	43.91	46.02	-2.11
	AVG	6.655G	-52.01	6.655G	-52.01	17.00	-35.01	-35.01	-32.00	63.26	80.00	-16.74
	AVG	22.95G	-73.43	22.95G	-73.43	17.00	-56.43	-56.43	-53.42	41.84	54.00	-12.16
	AVG	38.37G	-59.14	38.97G	-59.14	17.00	-42.14	-42.14	-39.13	56.13	80.00	-23.87
	PK	6.68G	-39.73	6.68G	-41.00	17.00	-22.73	-24.00	-20.31	74.95	80.00	-5.05
	PK	23.16G	-62.03	23.07G	-60.12	17.00	-45.03	-43.12	-40.96	54.30	74.00	-19.70
	PK	37.94G	-45.72	38.45G	-47.07	17.00	-28.72	-30.07	-26.33	68.93	80.00	-11.07
High	PK	13.52k	-84.64	13.52k	-84.64	17.00	-61.64	-61.64	-58.63	36.63	120.52	-83.89
	PK	508.9k	-75.13	209.98k	-55.68	17.00	-52.13	-32.68	-32.63	62.63	73.80	-11.17
	PK	891.36M	-77.06	888.45M	-77.77	17.00	-55.36	-56.07	-52.69	42.57	46.02	-3.45
	AVG	6.62G	-52.52	6.68G	-51.96	17.00	-35.52	-34.96	-32.22	63.04	80.00	-16.96
	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	-37.94	17.00	-42.19	-20.94	-20.91	74.35	80.00	-5.65
	PK	6.92G	-39.57	6.69G	-41.95	17.00	-22.57	-24.95	-20.59	74.67	80.00	-5.33
	PK	22.54G	-61.09	23.21G	-60.79	17.00	-44.09	-43.79	-40.93	54.33	74.00	-19.67
	PK	38.59G	-47.21	38.37G	-46.09	17.00	-30.21	-29.09	-26.60	68.65	80.00	-11.35

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 measured power + Antenna gain
E = (EIRP+GRF) – 20log D + 104.8
Margin = E – Limit

5.3.7 BAND EDGE EMISSIONS

5.3.7.1 TEST SPECIFICATION

Test Standard	47 CFR, Part 15 Feb 2016
Test Procedure	789033 D2 General U-NII Test Procedures New Rule V01r01
Frequency Range	5470 MHz to 5725 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	24.0 °C
Humidity	55.0 %
Tested By	Dikshit Raviteja
Test Date	8th Feb 2016

5.3.7.2 LIMITS

Standard	Reference section	Frequency range	Limit
47 CFR, Part 15 Feb 2016	15.407 (b) (3)	5470 MHz to 5725 MHz	≤ -27 dBm in any 1MHz band Limit, Limit (for 17 dBi antenna configuration) : ≤ 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

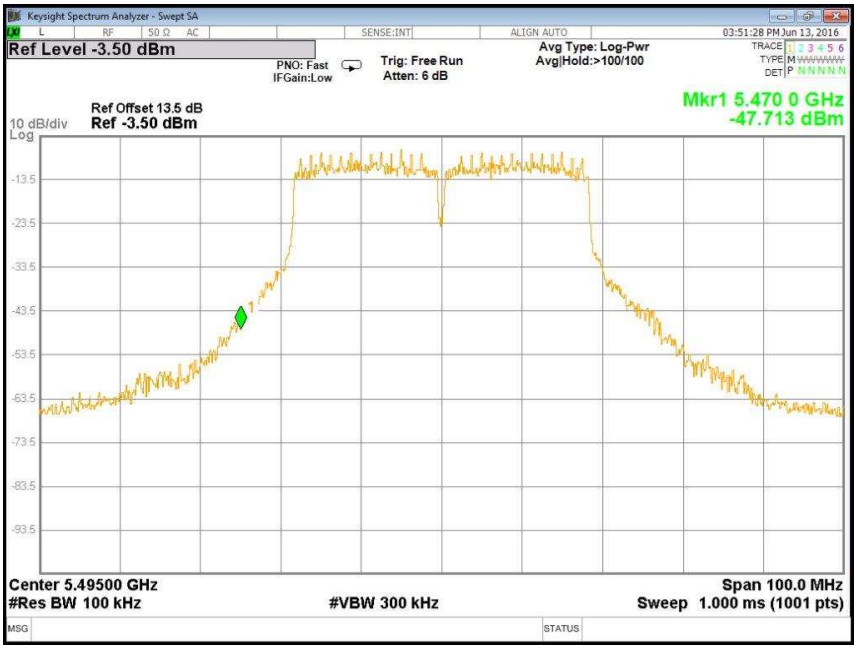

Figure 161: 40 MHz, 17 dBi, Low channel: Band edge measured at Ch.0 –5495 MHz

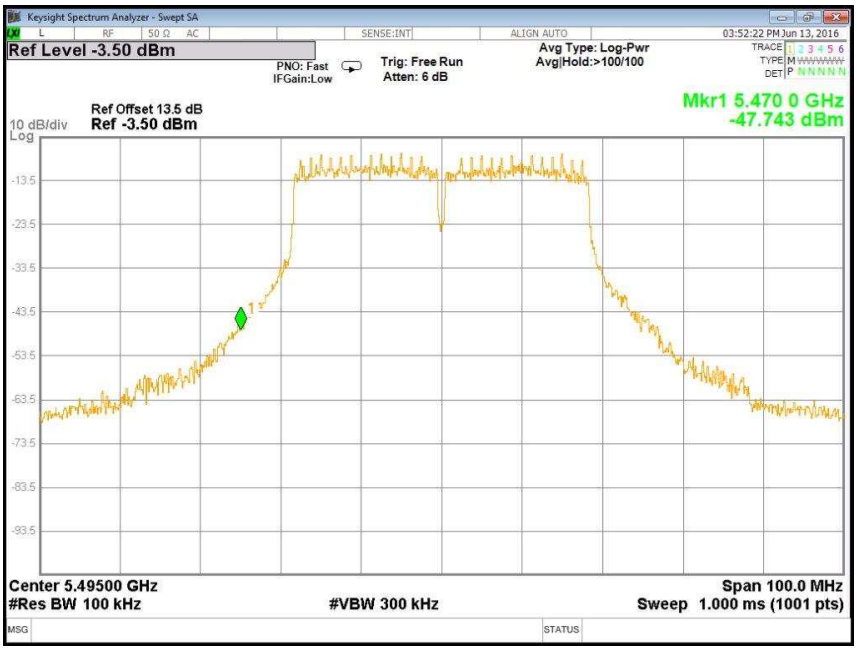

Figure 162: 40 MHz, 17 dBi, Low channel: Band edge measured at Ch.1 –5495 MHz

Figure 163: 40 MHz, 17 dBi, High channel: Band edge measured at Ch.0 –5700 MHz

Figure 164: 40 MHz, 17 dBi, High channel: Band edge measured at Ch.1 –5700 MHz

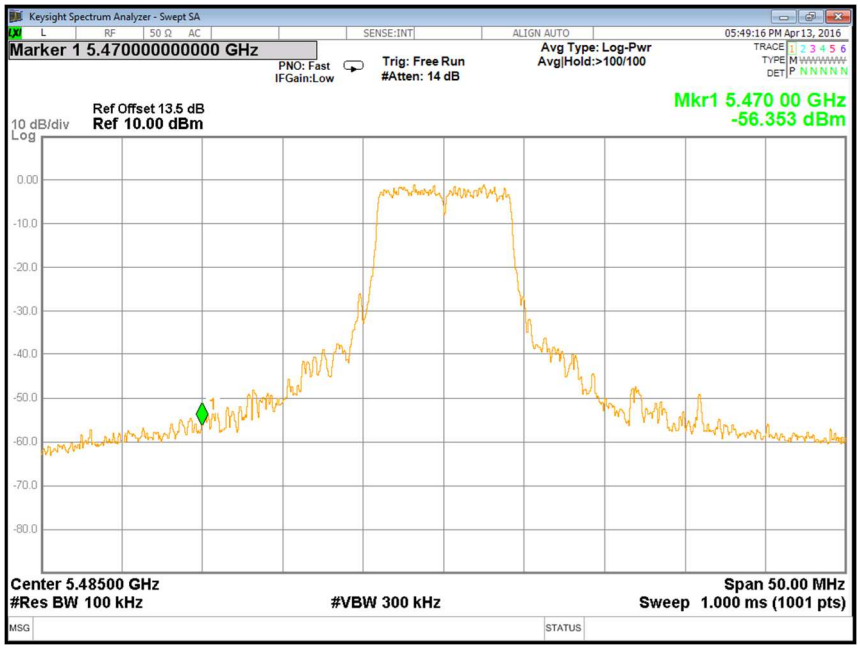

Figure 165: 10 MHz, 17 dBi, Low channel: Band edge measured at Ch.0 –5485 MHz

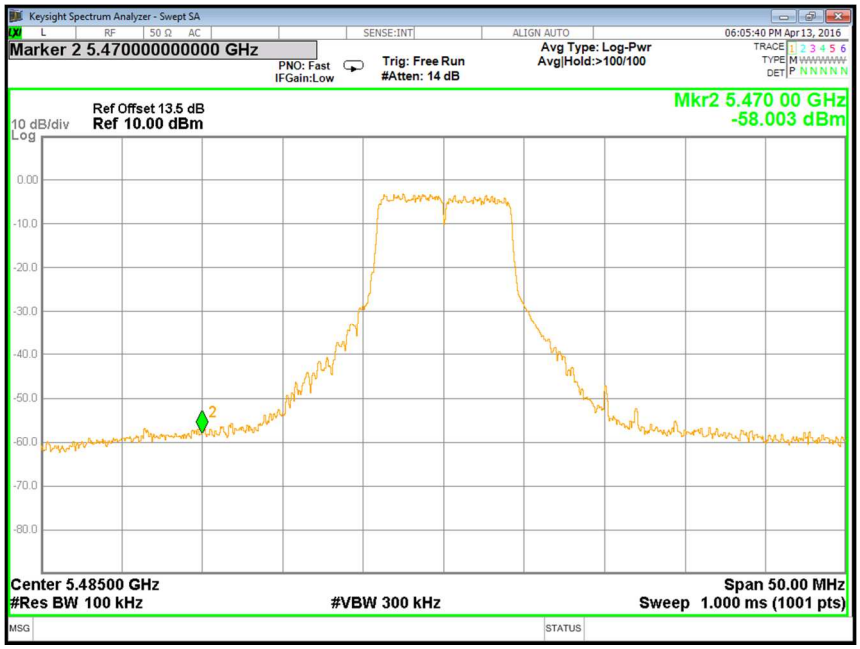

Figure 166: 10 MHz, 17 dBi, Low channel: Band edge measured at Ch.1 –5485 MHz

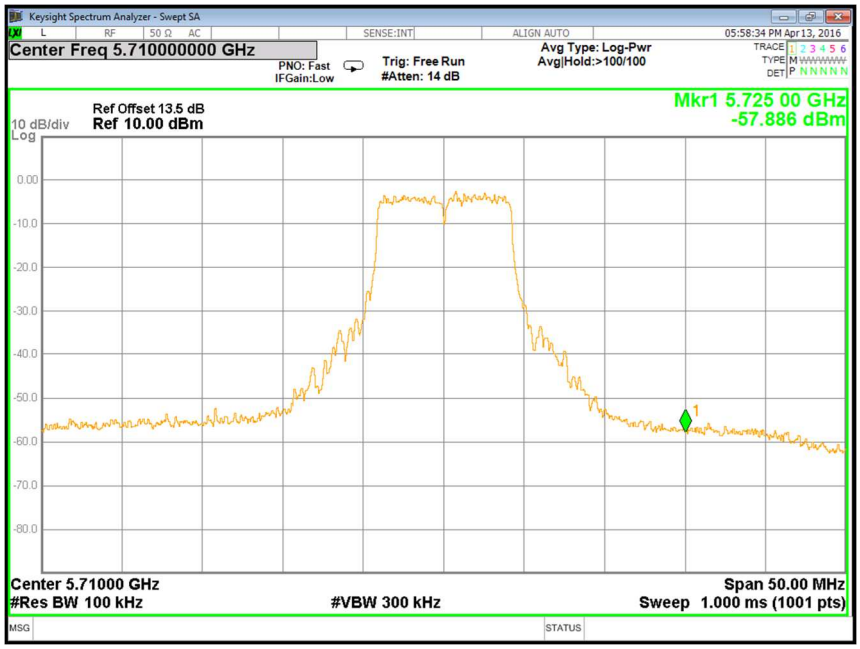

Figure 167: 10 MHz, 17 dBi, High channel: Band edge measured at Ch.0 –5710 MHz

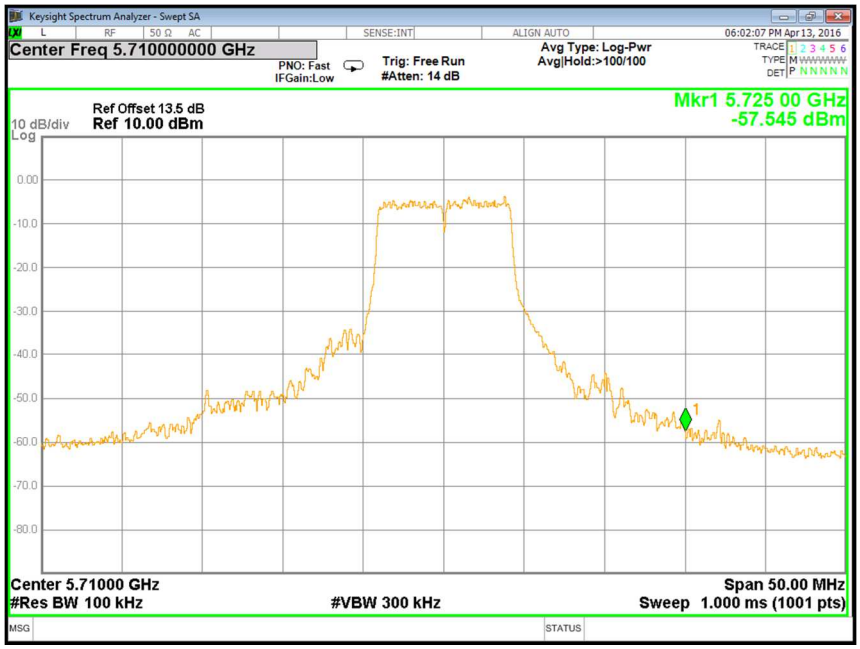

Figure 168: 10 MHz, 17 dBi, High channel: Band edge measured at Ch.1 –5710 MHz

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

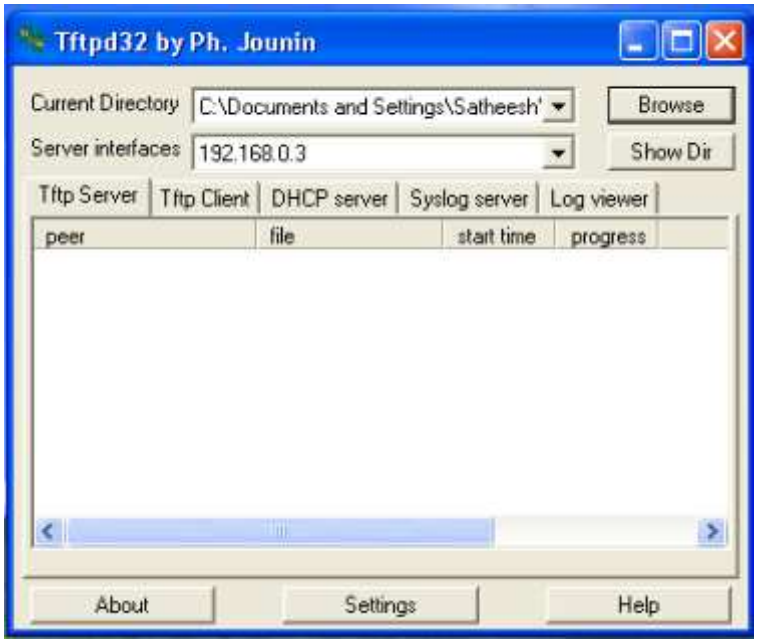

Figure 169: tftpd32 application screenshot

Figure 170: tftpd32 application initialization root_ screenshot

Figure 171: Tera term application screenshot

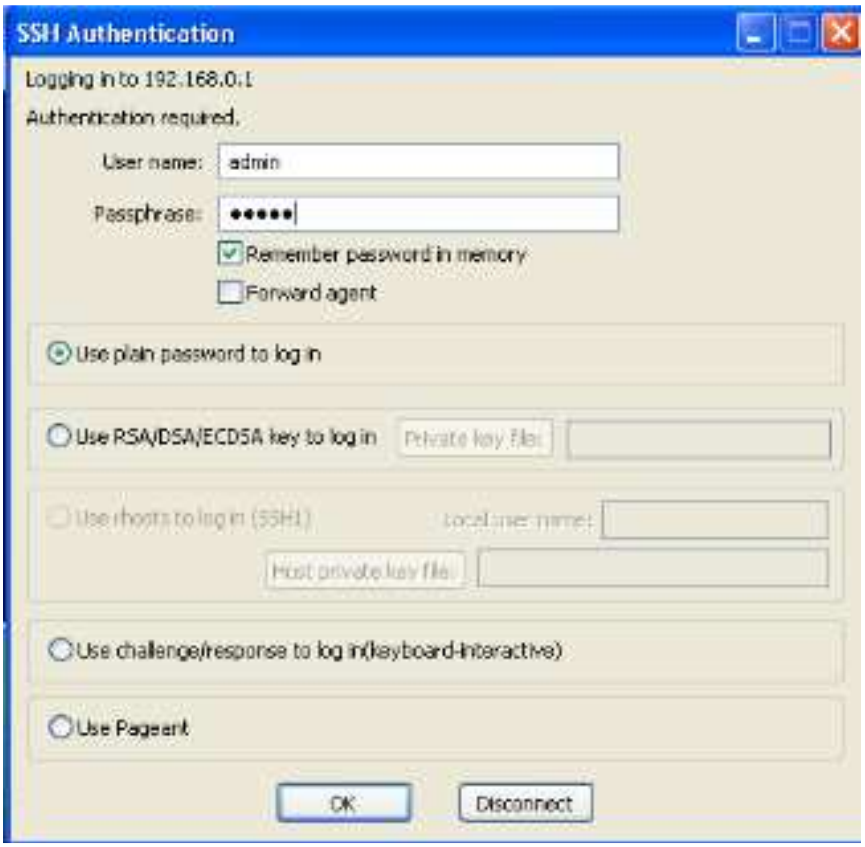

Figure 172: Tera term application Login screenshot

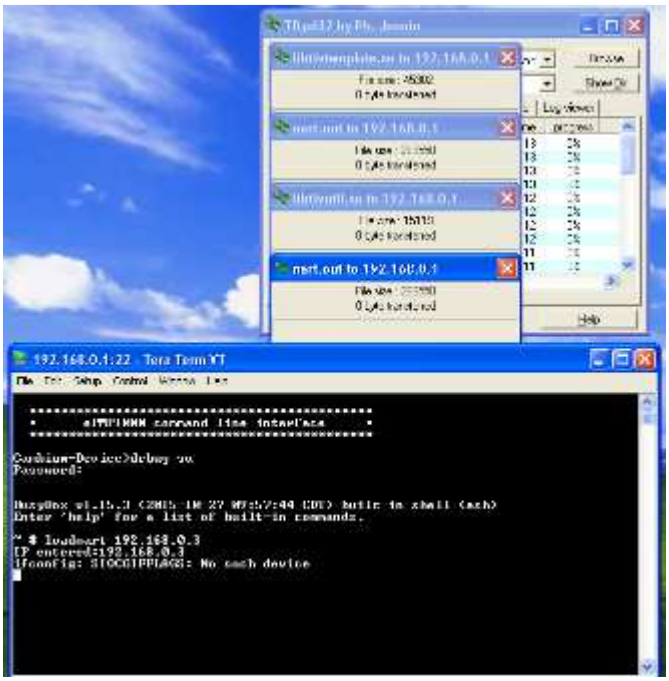

Figure 173: Initializing EUT screenshot

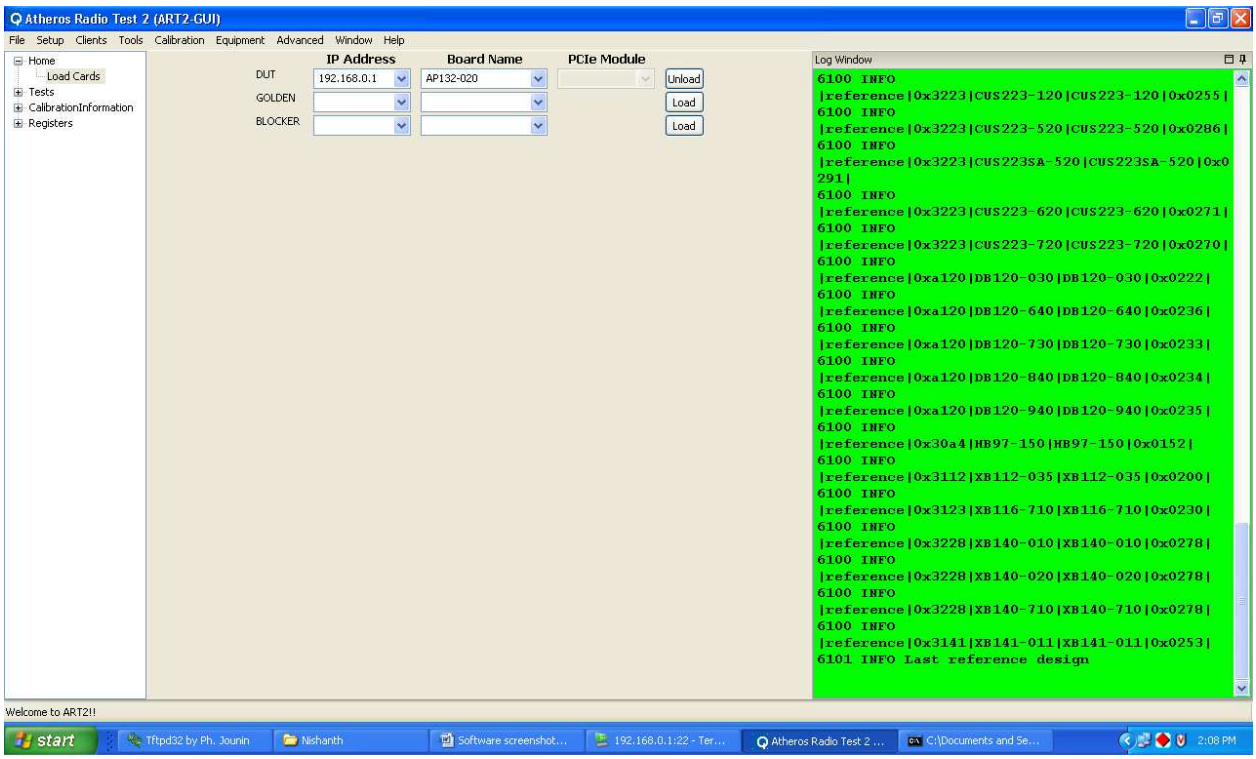

Figure 174: Atheros Radio Test GUI screenshot-1

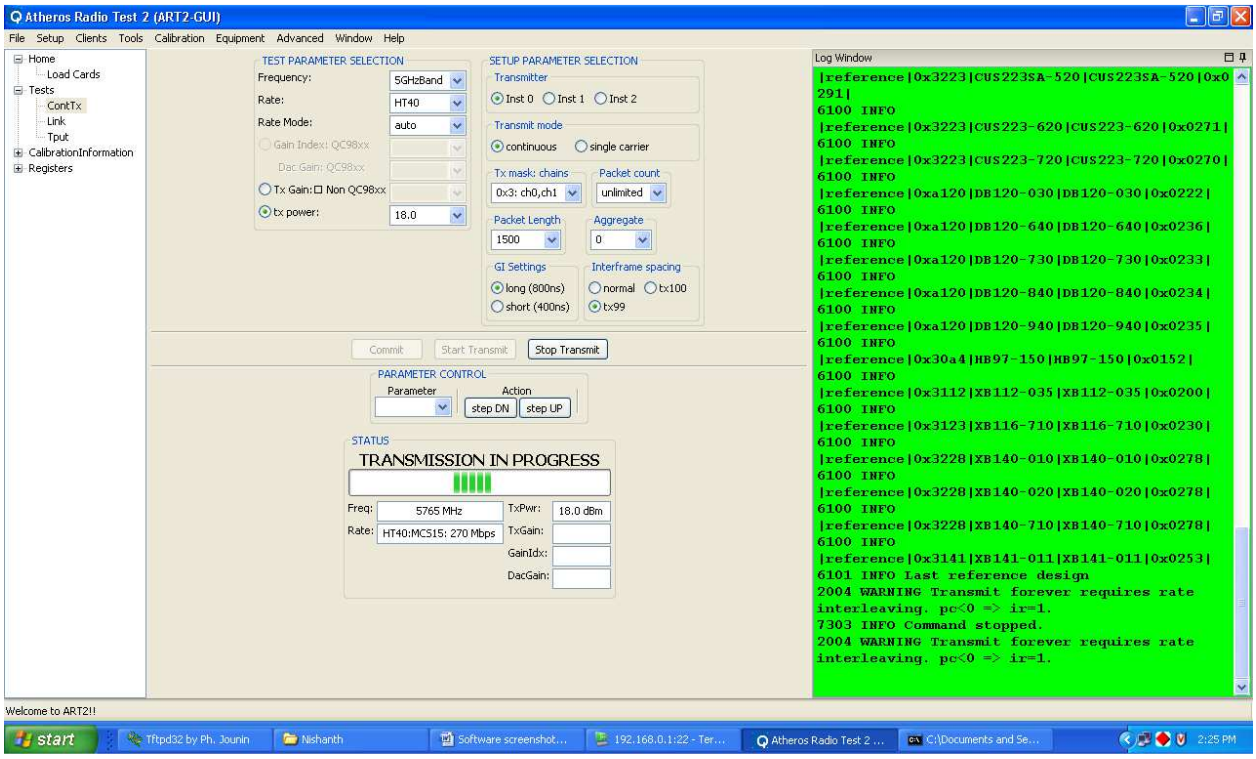

Figure 175: Atheros Radio Test GUI screenshot -2

ANNEXURE II: ACRONYMS

dBµV	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