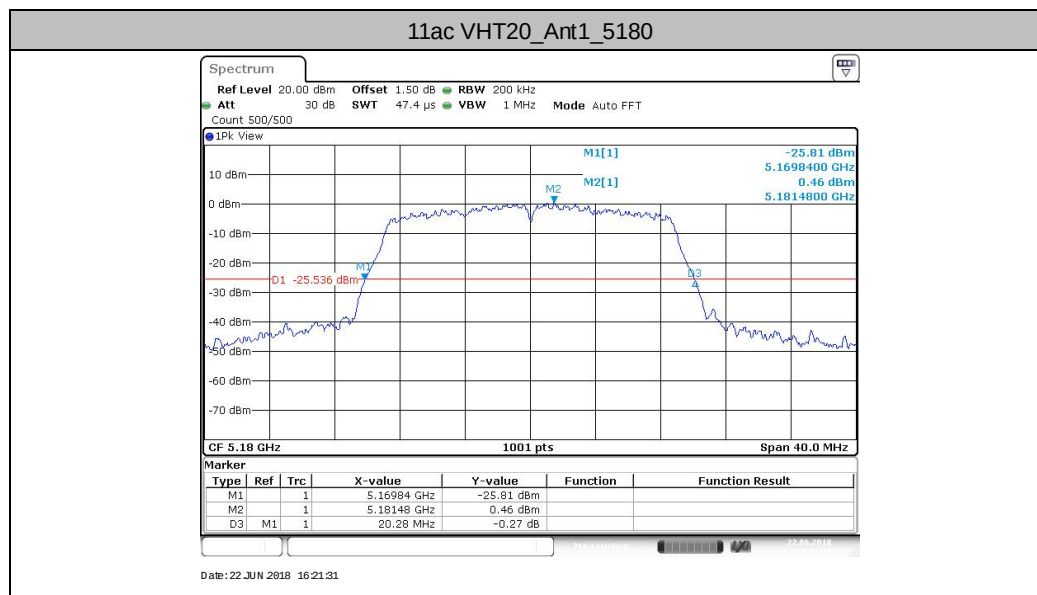


Appendix D1: Emission Bandwidth

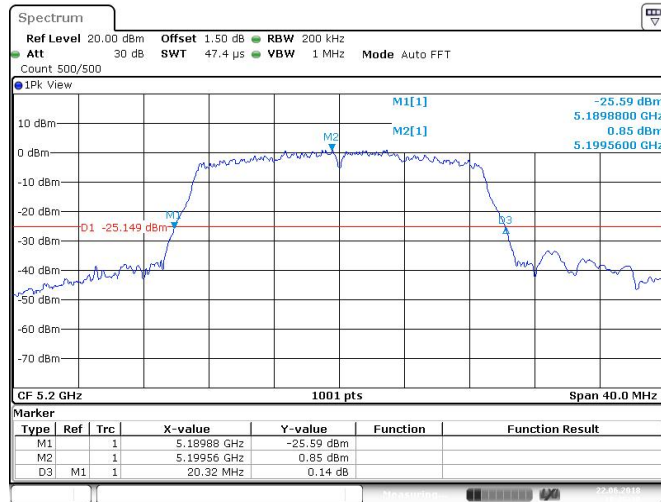
Test Result

TestMode	Antenna	Channel (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11ac VHT20	Ant1	5180	20.280	5169.840	5190.120	---	PASS
		5200	20.320	5189.880	5210.200	---	PASS
		5240	20.280	5229.840	5250.120	---	PASS
		5260	20.240	5249.920	5270.160	---	PASS
		5280	20.280	5269.920	5290.200	---	PASS
		5320	20.200	5309.920	5330.120	---	PASS
		5500	20.280	5489.840	5510.120	---	PASS
		5580	20.320	5569.880	5590.200	---	PASS
		5700	20.680	5689.960	5710.640	---	PASS
		5720	19.960	5710.000	5729.960	---	PASS
		5745	19.920	5735.040	5754.960	---	PASS
		5785	19.880	5775.040	5794.920	---	PASS
		5825	20.000	5815.080	5835.080	---	PASS

Test Graphs

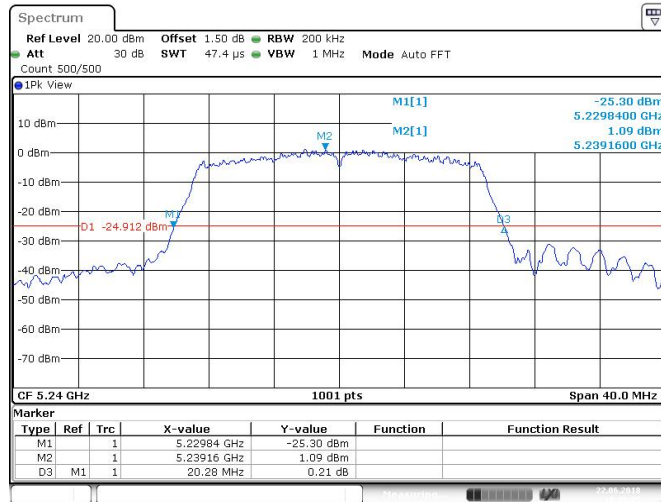


11ac VHT20_Ant1_5200



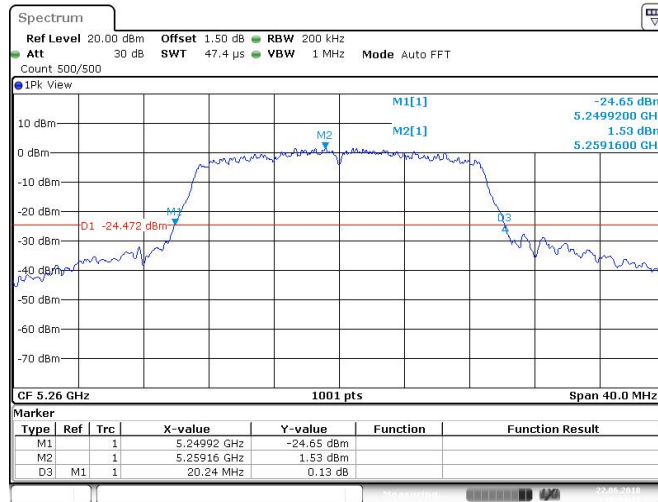
Date: 22 JUN 2018 16:25:30

11ac VHT20_Ant1_5240



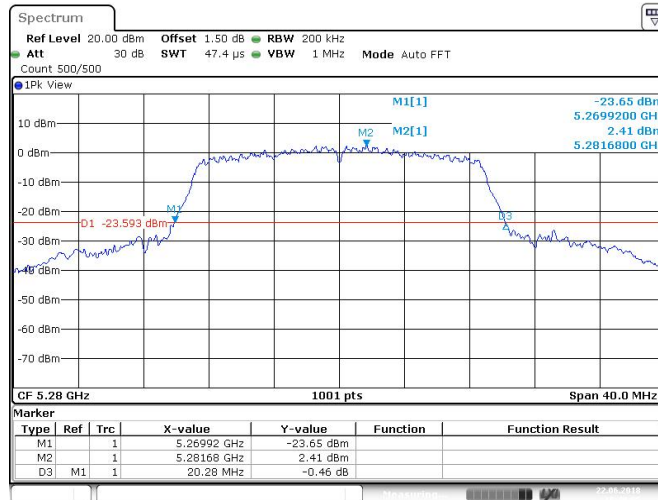
Date: 22 JUN 2018 16:29:05

11ac VHT20_Ant1_5260



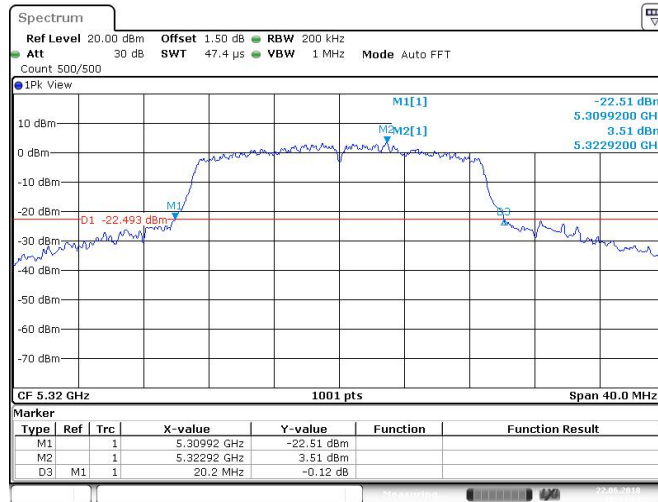
Date: 22 JUN 2018 16:34:14

11ac VHT20_Ant1_5280



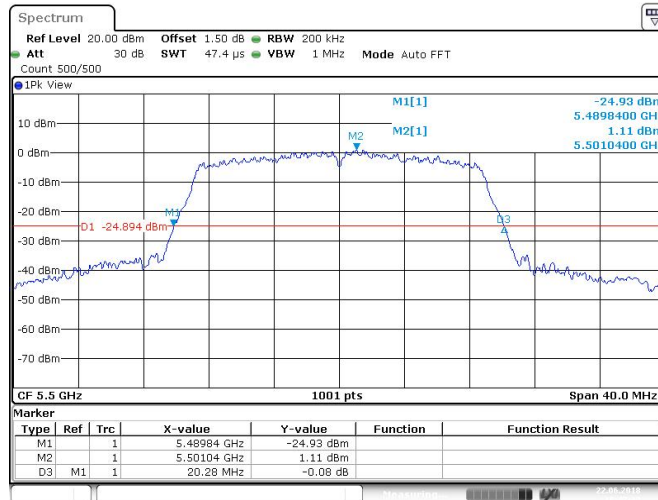
Date: 22 JUN 2018 16:40:06

11ac VHT20_Ant1_5320



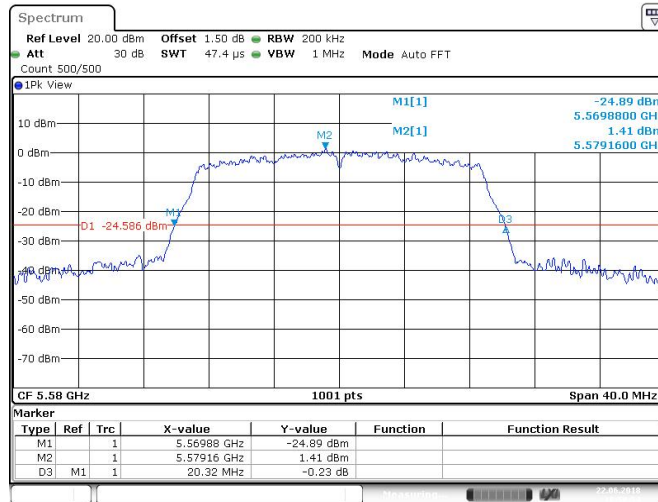
Date: 22 JUN 2018 16:44:04

11ac VHT20_Ant1_5500



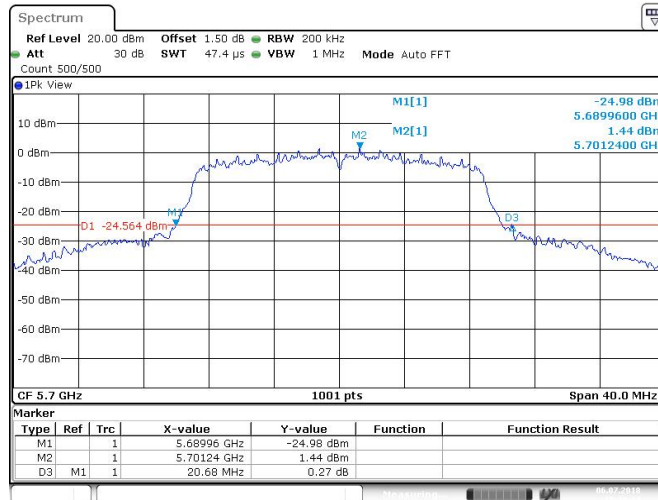
Date: 22 JUN 2018 16:47:23

11ac VHT20_Ant1_5580



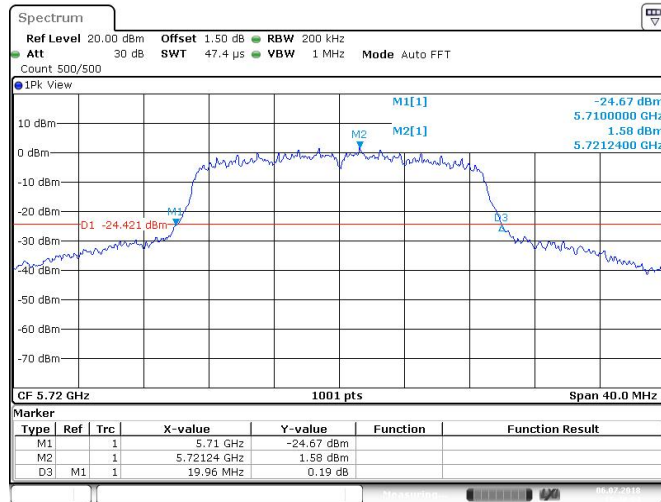
Date: 22 JUN 2018 16:59:54

11ac VHT20_Ant1_5700



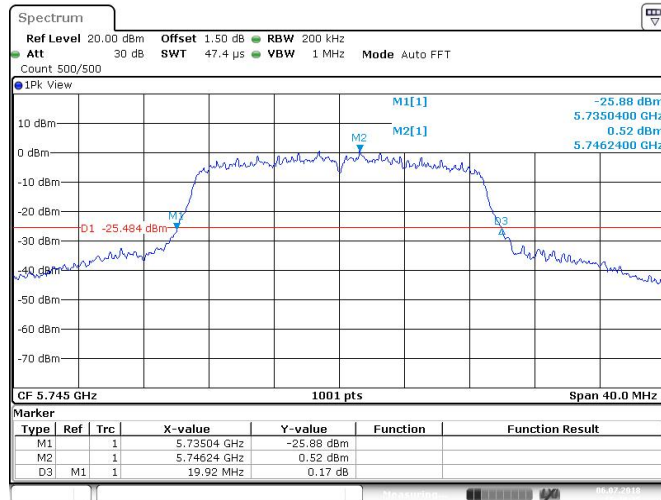
Date: 6 JUL 2018 15:39:34

11ac VHT20_Ant1_5720



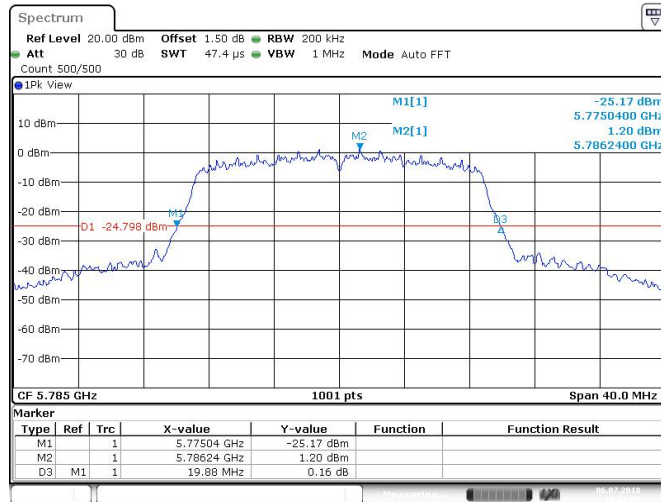
Date: 6 JUL 2018 15:40:04

11ac VHT20_Ant1_5745



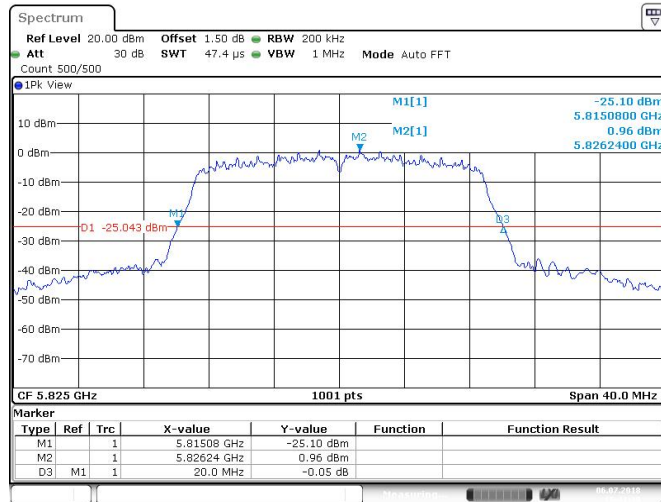
Date: 6 JUL 2018 15:40:05

11ac VHT20_Ant1_5785



Date: 6 JUL 2018 15:41:07

11ac VHT20_Ant1_5825



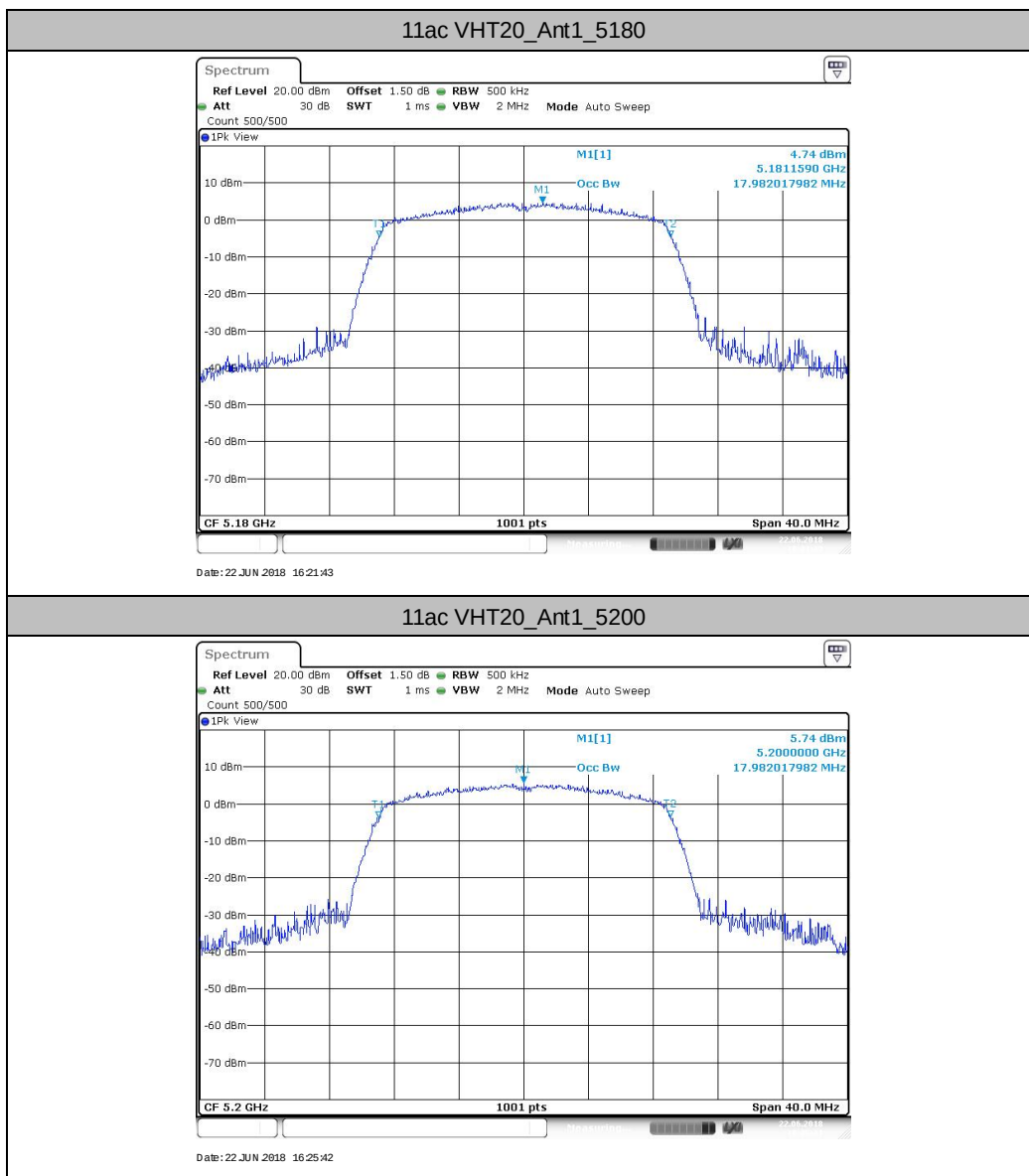
Date: 6 JUL 2018 15:41:40

Appendix D2: Occupied Channel (MHz) bandwidth

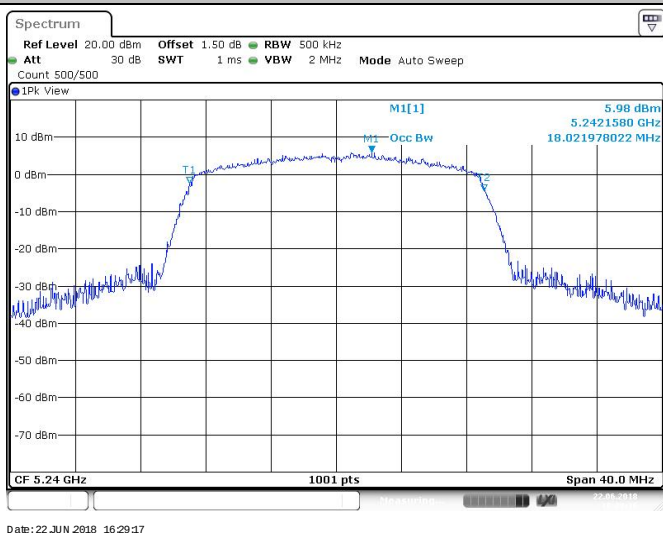
Test Result

TestMode	Antenna	Channel (MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11ac VHT20	Ant1	5180	17.982	5171.089	5189.071	---	PASS
		5200	17.982	5191.049	5209.031	---	PASS
		5240	18.022	5231.009	5249.031	---	PASS
		5260	18.102	5251.009	5269.111	---	PASS
		5280	18.182	5271.009	5289.191	---	PASS
		5320	18.262	5310.929	5329.191	---	PASS
		5500	18.062	5491.009	5509.071	---	PASS
		5580	18.062	5571.009	5589.071	---	PASS
		5700	22.098	5689.610	5711.708	---	PASS
		5720	22.817	5708.931	5731.748	---	PASS
		5745	23.696	5733.452	5757.148	---	PASS
		5785	23.576	5773.132	5796.708	---	PASS
		5825	19.78	5815.050	5834.830	---	PASS

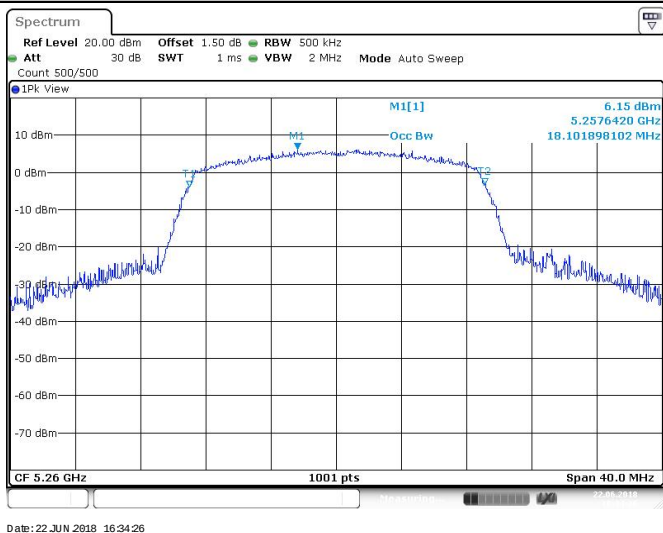
Test Graphs

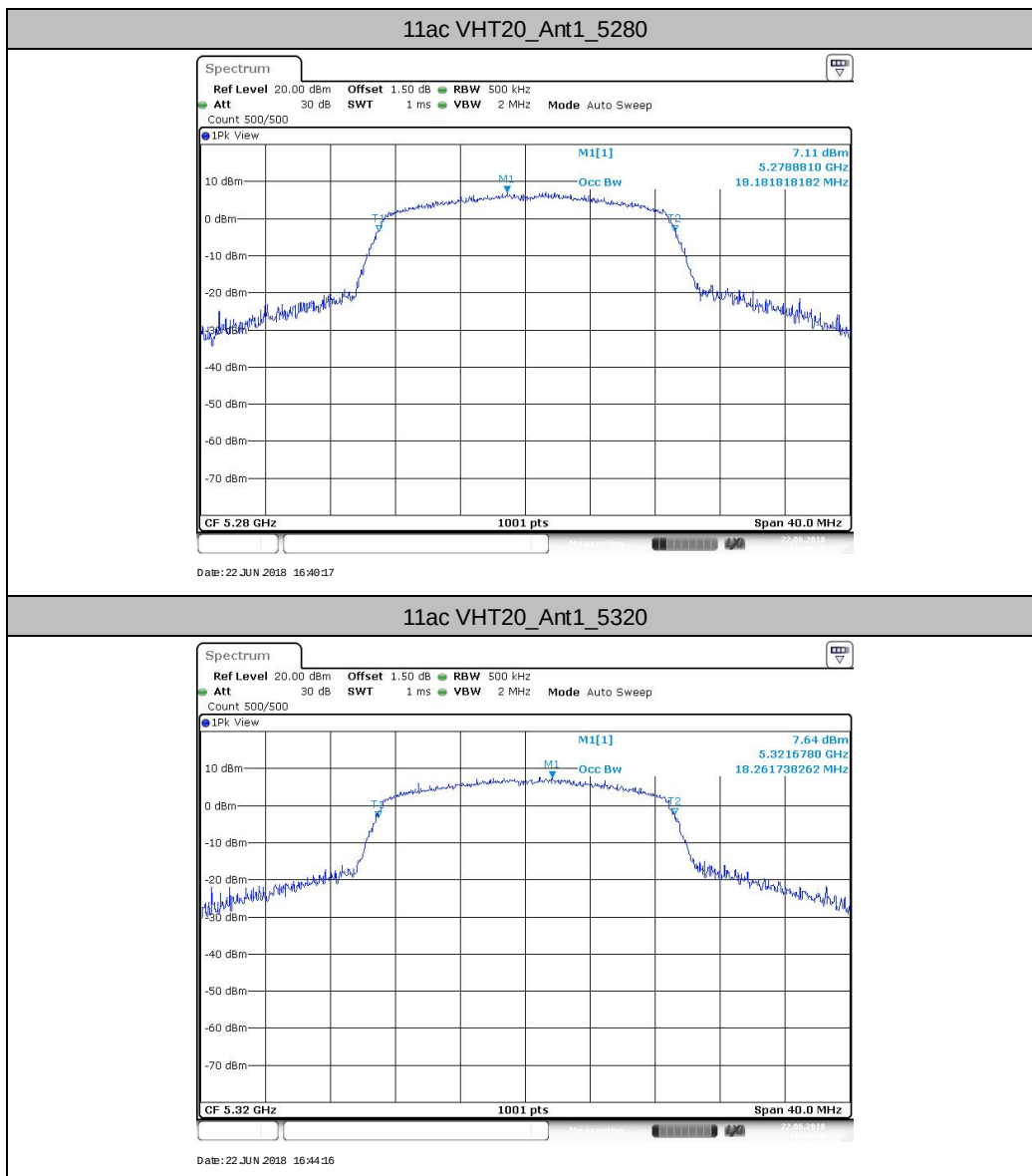


11ac VHT20_Ant1_5240

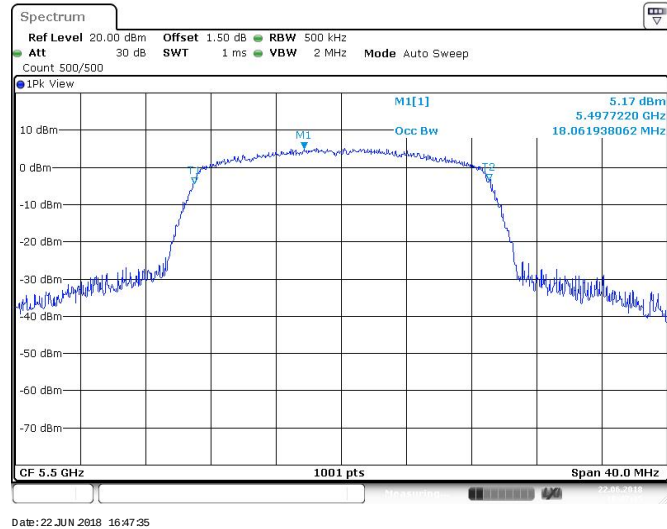


11ac VHT20_Ant1_5260

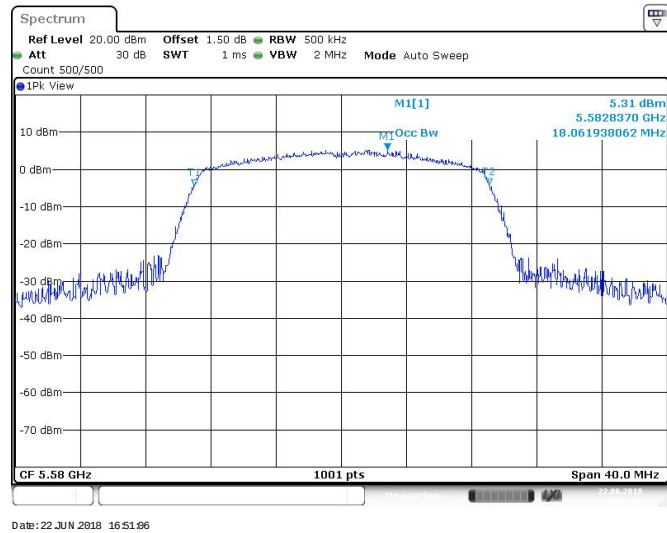




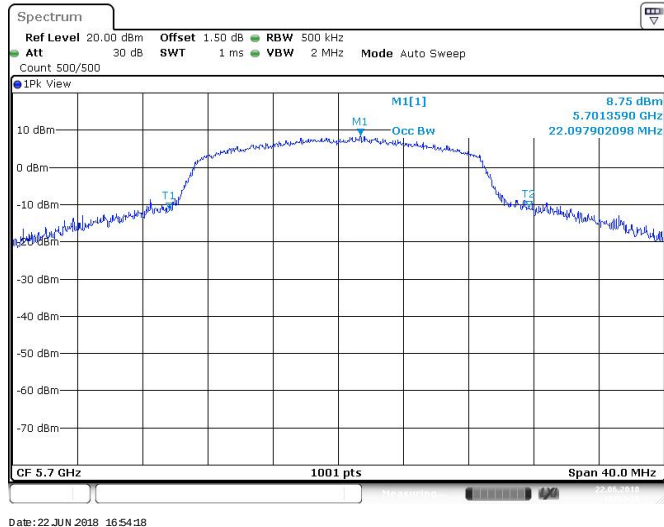
11ac VHT20_Ant1_5500



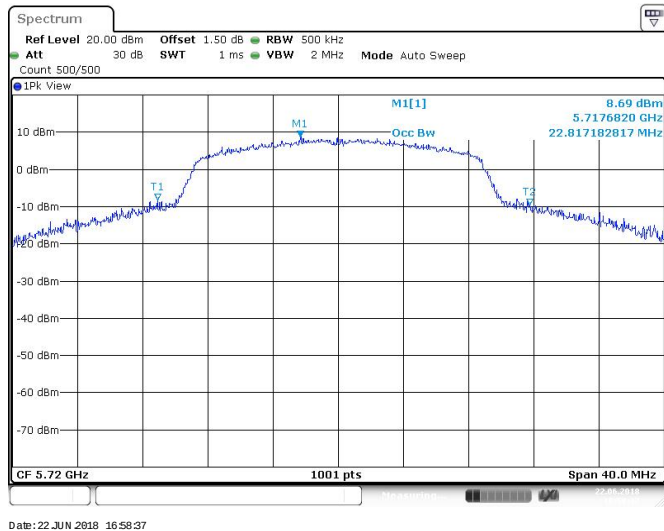
11ac VHT20_Ant1_5580



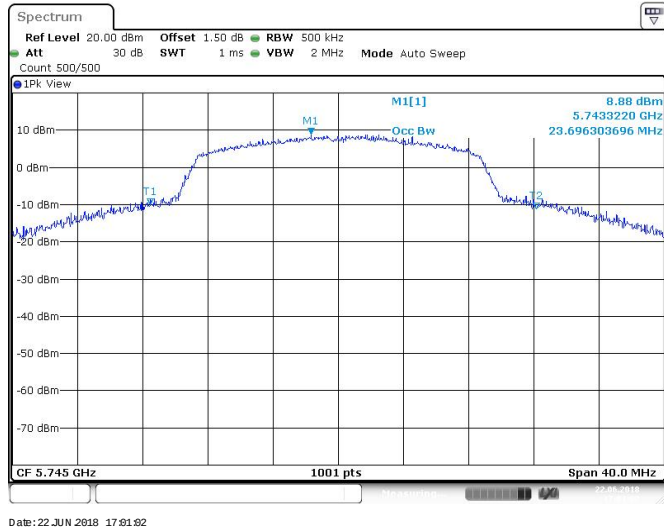
11ac VHT20_Ant1_5700



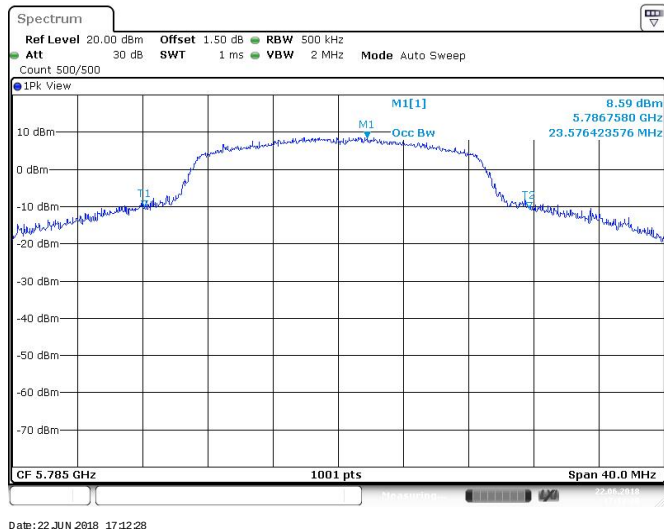
11ac VHT20_Ant1_5720

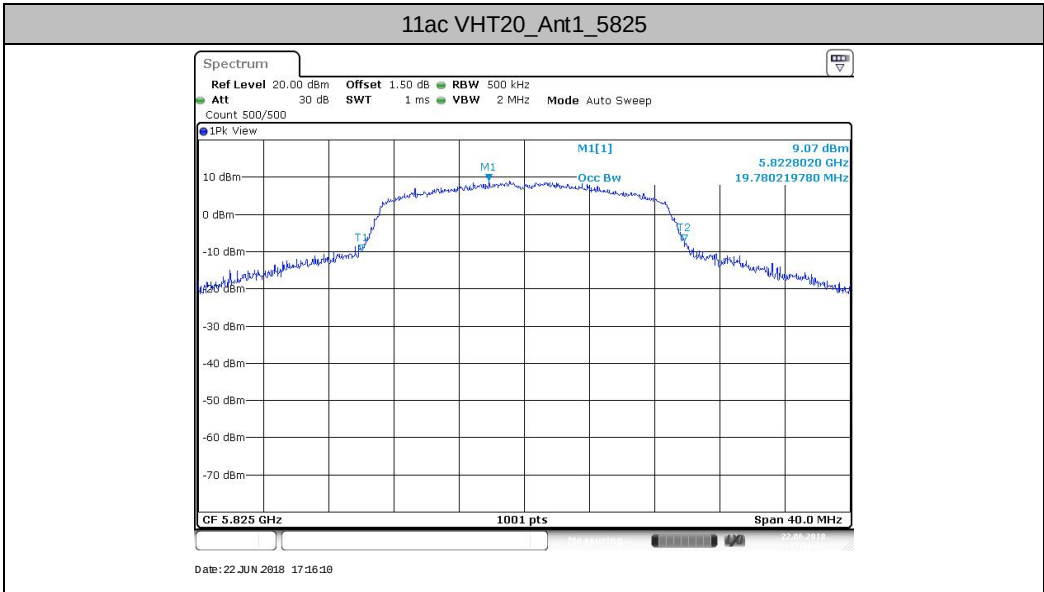


11ac VHT20_Ant1_5745



11ac VHT20_Ant1_5785



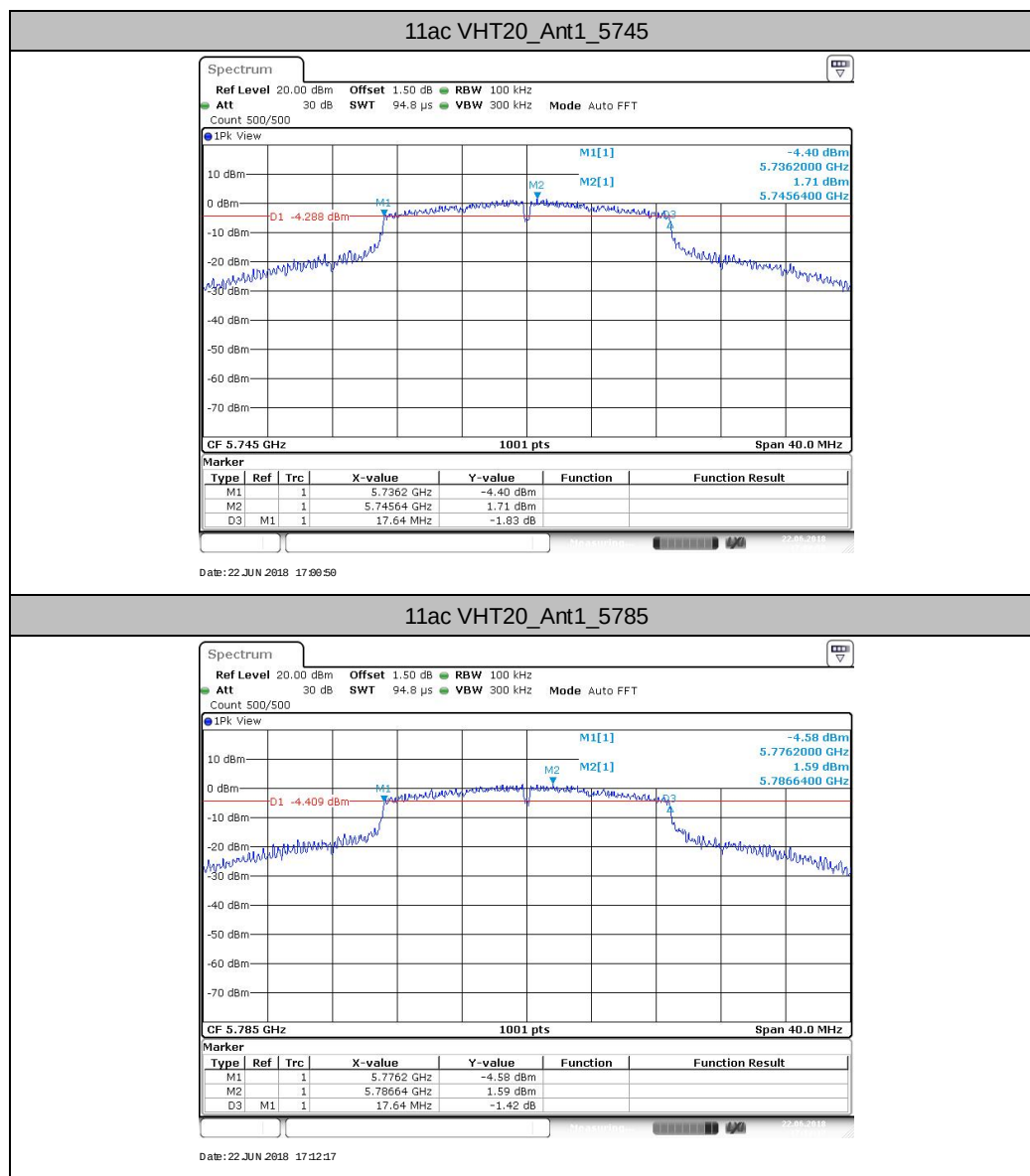


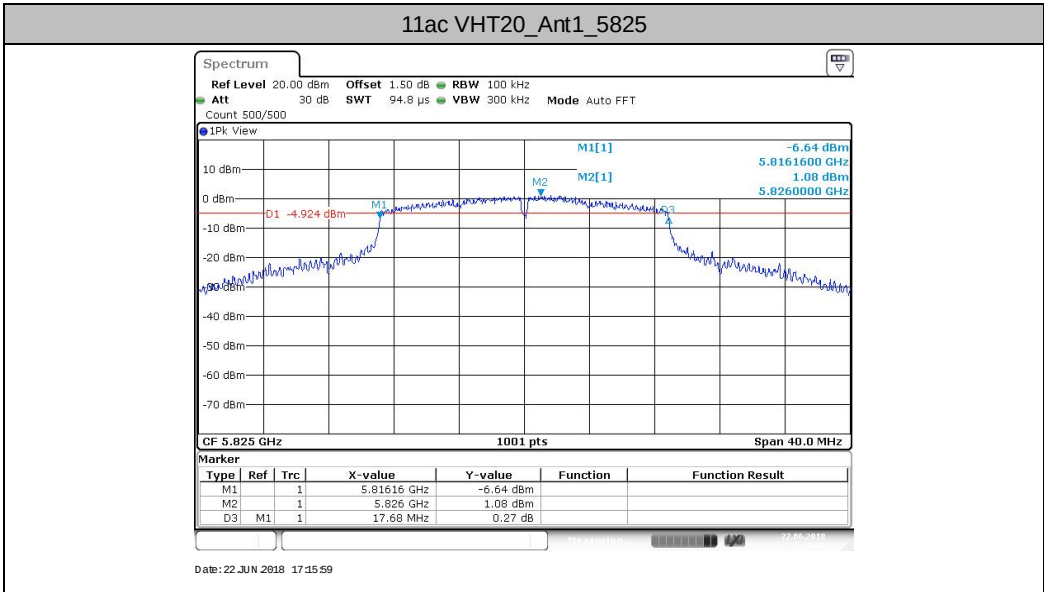
Appendix D3: Min emission bandwidth

Test Result

TestMode	Antenna	Channel (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11ac VHT20	Ant1	5745	17.640	5736.200	5753.840	0.5	PASS
		5785	17.640	5776.200	5793.840	0.5	PASS
		5825	17.680	5816.160	5833.840	0.5	PASS

Test Graphs





Appendix D4: Maximum conducted output power

Test Result

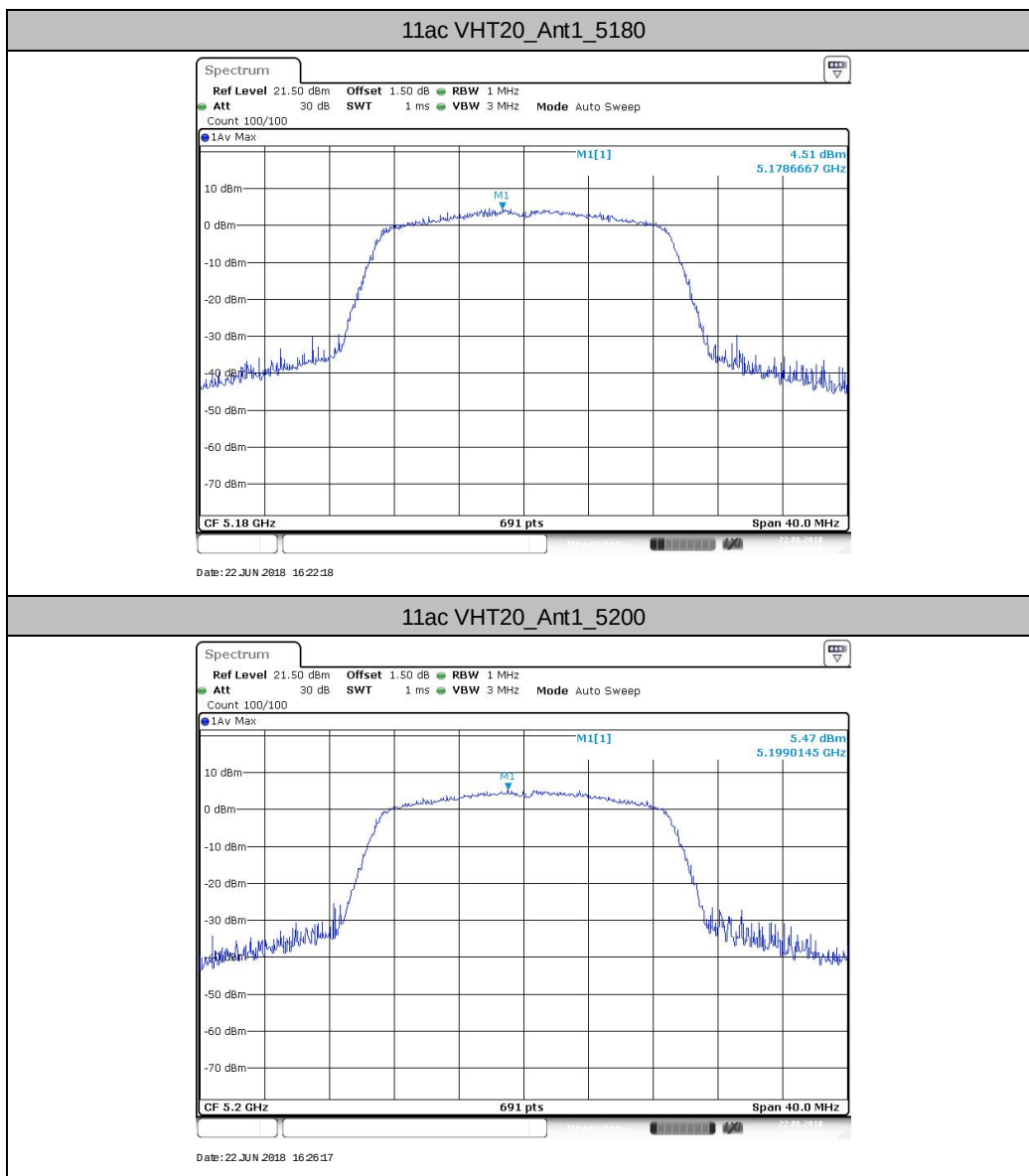
TestMode	Antenna	Channel (MHz)	Result (dBm)	Limit (dBm)	Verdict
11ac VHT20	Ant1	5180	13.87	23.98	PASS
		5200	13.96	23.98	PASS
		5240	14.14	23.98	PASS
		5260	13.64	23.98	PASS
		5280	13.50	23.98	PASS
		5320	13.73	23.98	PASS
		5500	13.68	23.98	PASS
		5580	13.54	23.98	PASS
		5700	13.40	23.98	PASS
		5720	13.51	23.98	PASS
		5745	12.34	30	PASS
		5785	12.66	30	PASS
		5825	12.51	30	PASS

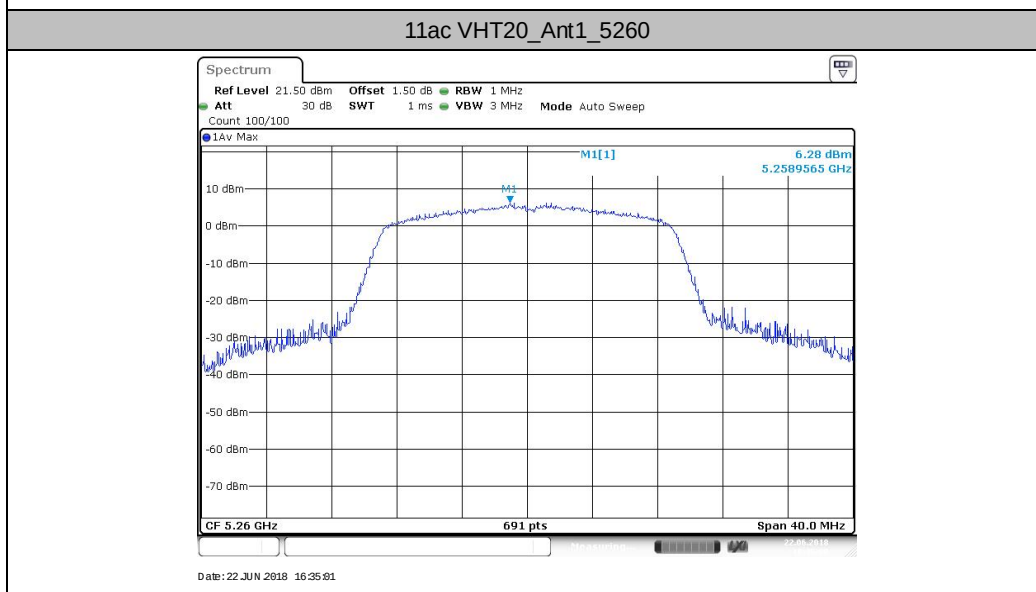
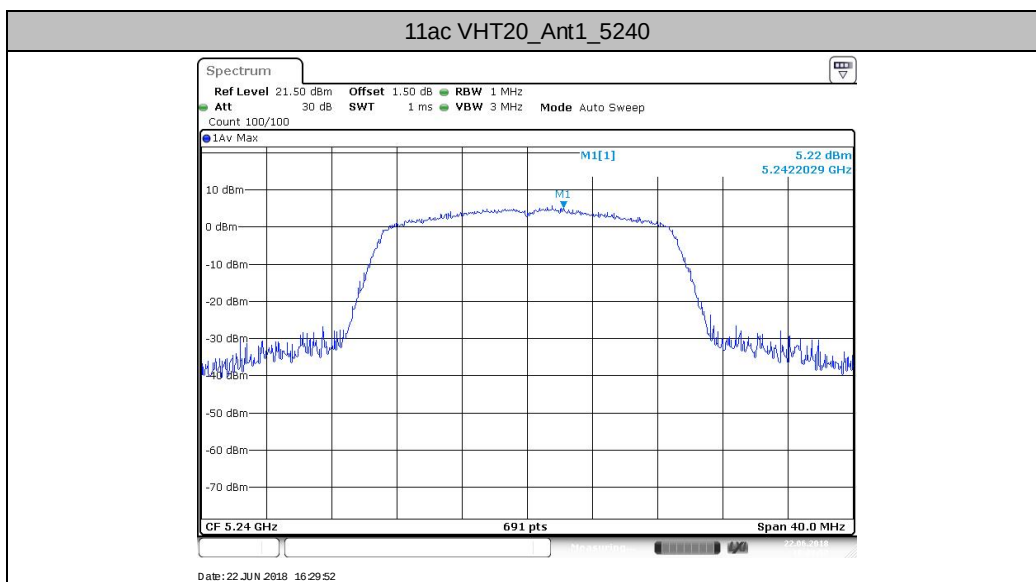
Appendix D5: Maximum power spectral density

Test Result

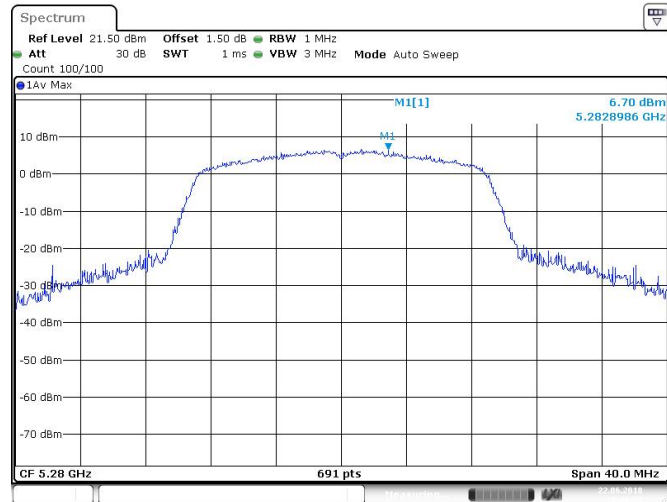
TestMode	Antenna	Channel (MHz)	Result (dBm)	Limit (dBm)	Verdict
11ac VHT20	Ant1	5180	4.51	11	PASS
		5200	5.47	11	PASS
		5240	5.22	11	PASS
		5260	6.28	11	PASS
		5280	6.7	11	PASS
		5320	7.51	11	PASS
		5500	5.42	11	PASS
		5580	5	11	PASS
		5700	7.88	11	PASS
		5745	7.47	30	PASS
		5785	7.78	30	PASS
		5825	7.45	30	PASS

Test Graphs



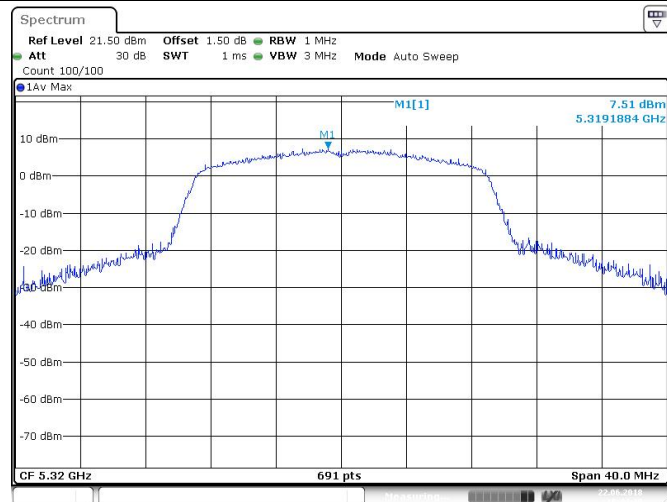


11ac VHT20_Ant1_5280



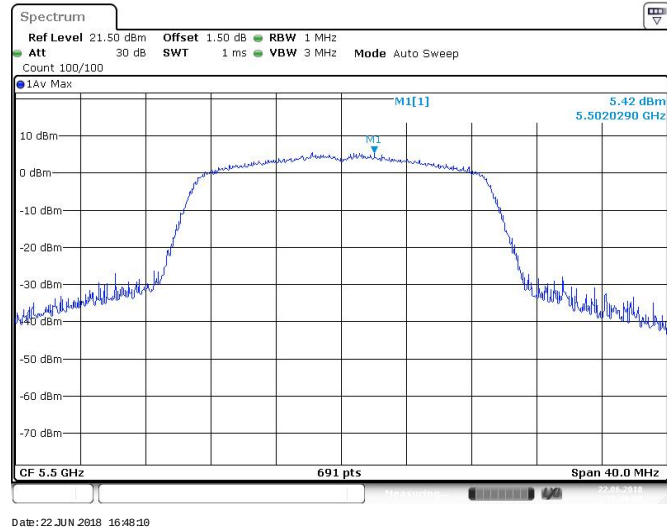
Date: 22 JUN 2018 16:46:52

11ac VHT20_Ant1_5320

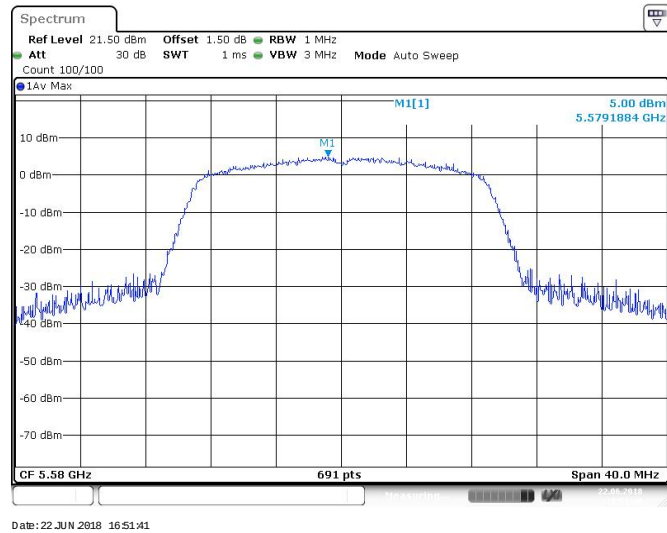


Date: 22 JUN 2018 16:44:41

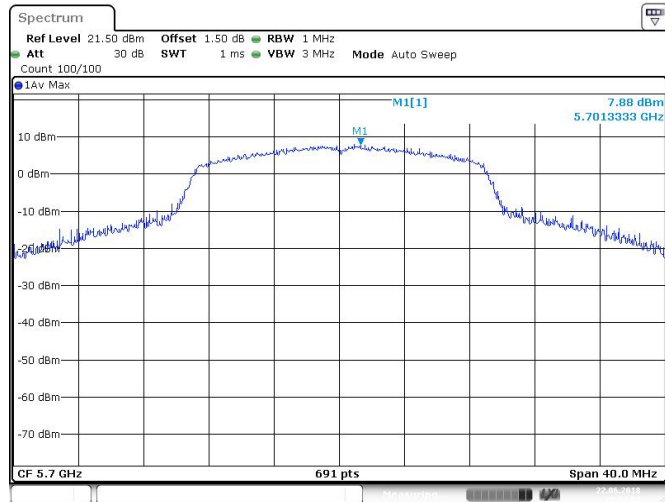
11ac VHT20_Ant1_5500



11ac VHT20_Ant1_5580

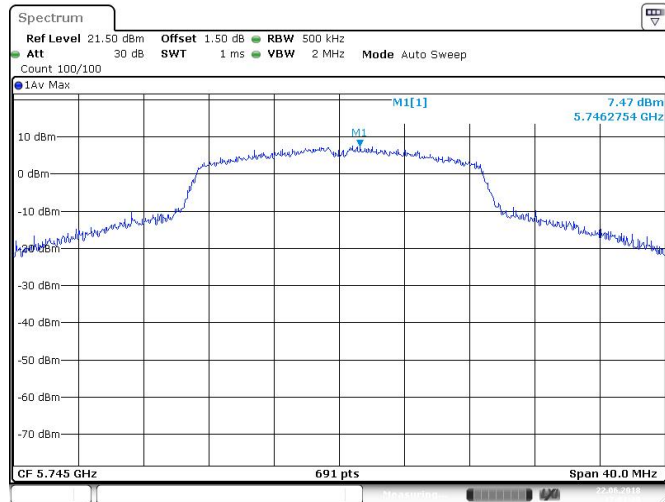


11ac VHT20_Ant1_5700



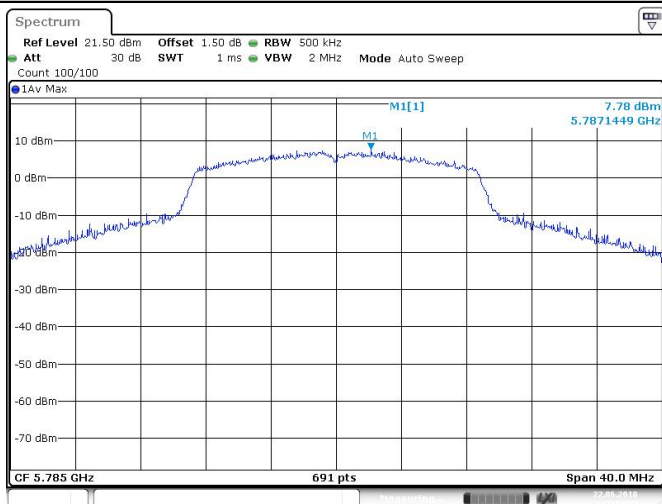
Date: 22 JUN 2018 16:54:53

11ac VHT20_Ant1_5745



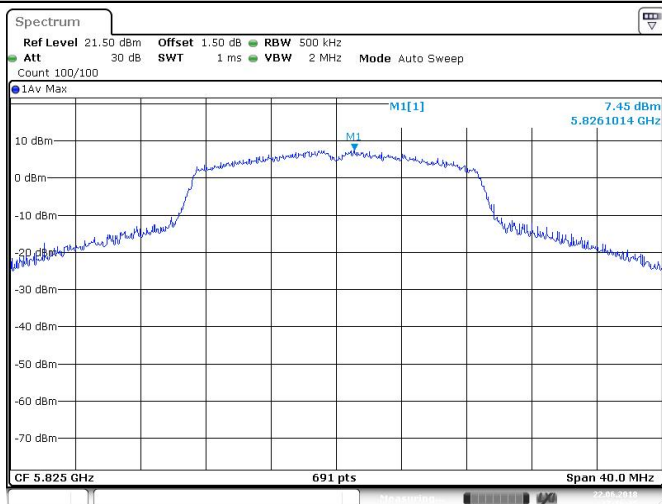
Date: 22 JUN 2018 17:01:30

11ac VHT20_Ant1_5785



Date: 22 JUN 2018 17:13:93

11ac VHT20_Ant1_5825



Date: 22 JUN 2018 17:16:45

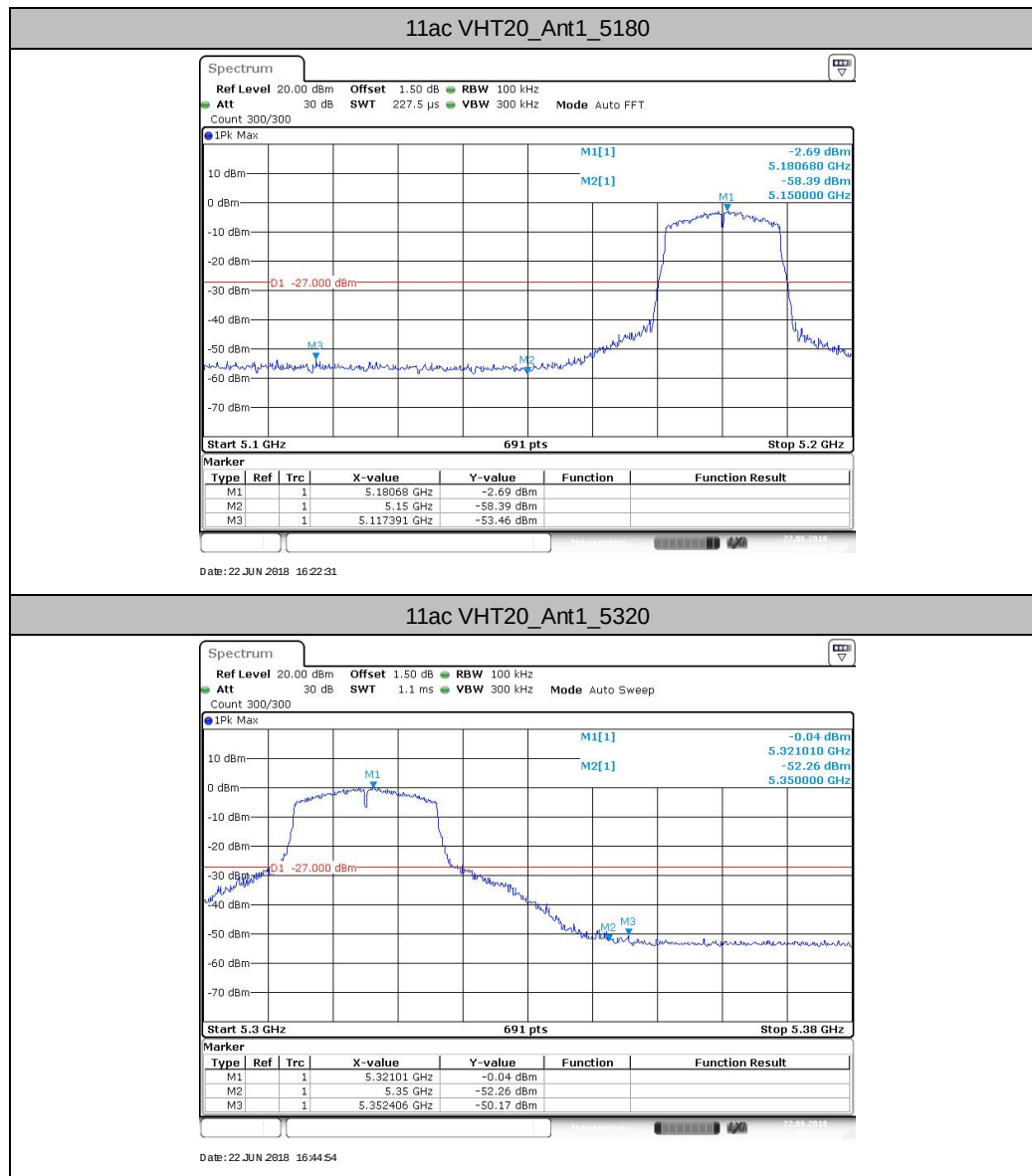
Appendix D6: Band edge measurements

Test Result

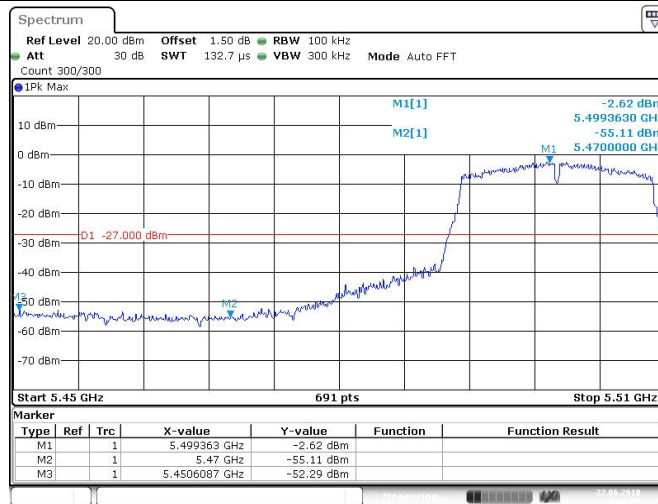
TestMode	Antenna	ChName	Channel (MHz)	Result (dBm)	Limit (dBm)	Verdict
11ac VHT20	Ant1	Low	5180	-53.46	-27	PASS
		High	5320	-50.17	-27	PASS
		Low	5500	-52.29	-27	PASS
		High	5700	-36.86	-27	PASS

TestMode	Antenna	ChName	Channel (MHz)	FreqRange (MHz)	Result (dBm)	Limit (dBm)	Verdict
11ac VHT20	Ant1	Low	5745	5650~5700	-51.05	10.00	PASS
		Low	5745	5700~5720	-37.24	15.41	PASS
		Low	5745	5720~5725	-27.31	27.00	PASS
		Low	5745	5760~5650	-54.06	-27	PASS
		High	5825	5850~5855	-41.89	15.80	PASS
		High	5825	5855~5875	-48.36	10.10	PASS
		High	5825	5875~5925	-51.75	2.63	PASS
		High	5825	5925~5935	-53.24	-27	PASS

Test Graphs

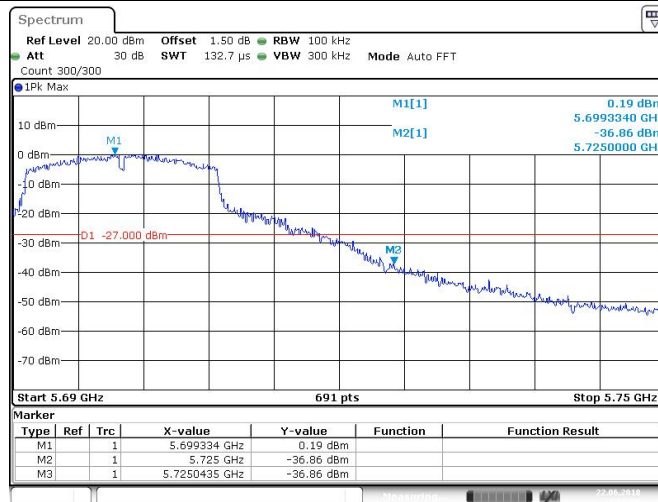


11ac VHT20_Ant1_5500



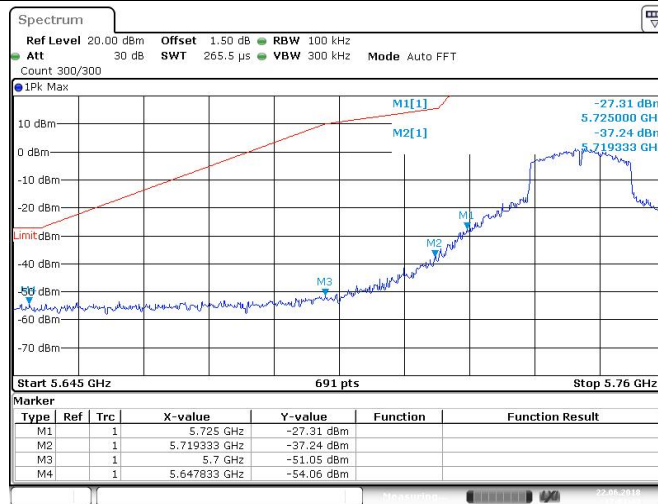
Date: 22 JUN 2018 16:48:23

11ac VHT20_Ant1_5700



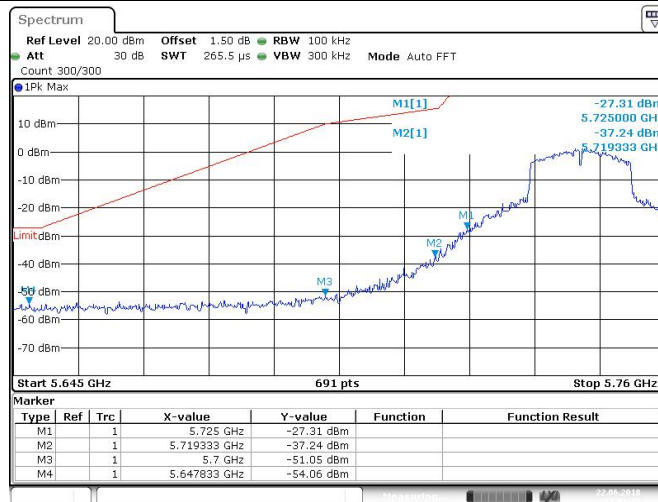
Date: 22 JUN 2018 16:55:06

11ac VHT20_Ant1_5745



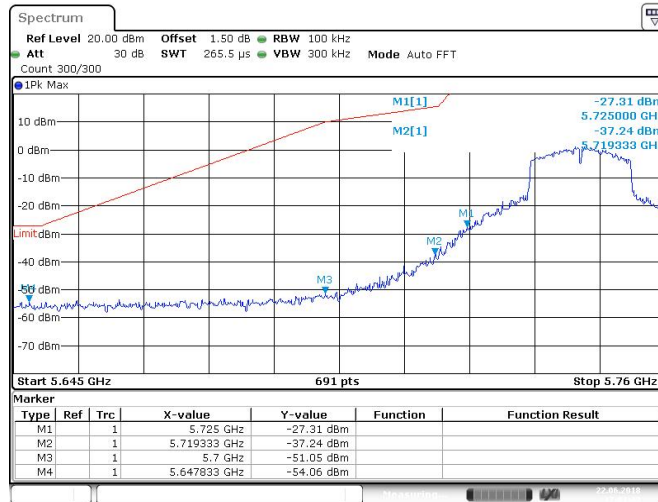
Date: 22 JUN 2018 17:01:43

11ac VHT20_Ant1_5745



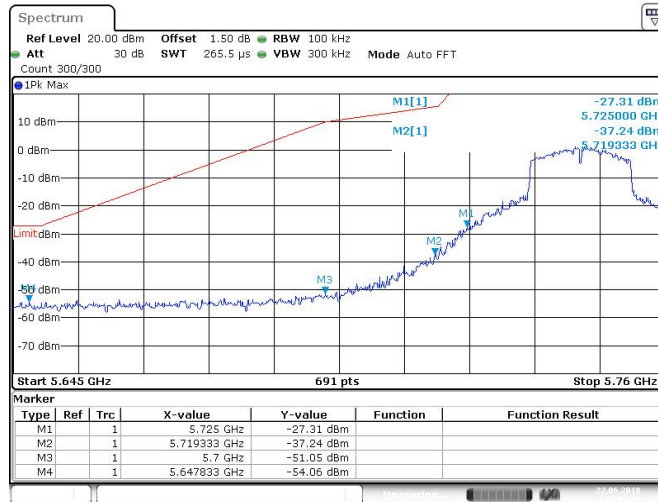
Date: 22 JUN 2018 17:01:43

11ac VHT20_Ant1_5745



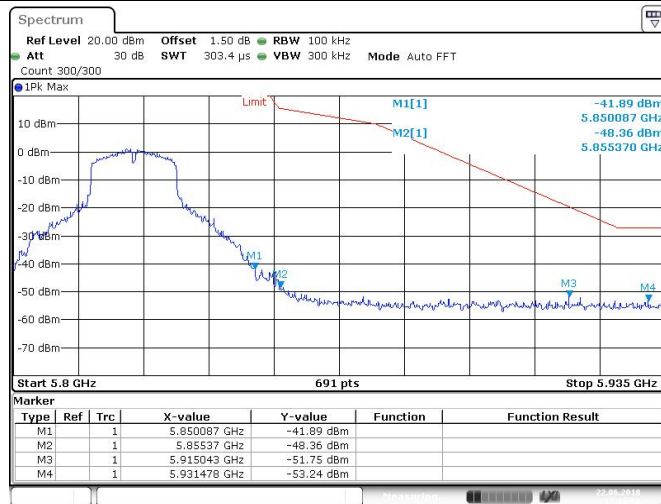
Date: 22 JUN 2018 17:01:43

11ac VHT20_Ant1_5745



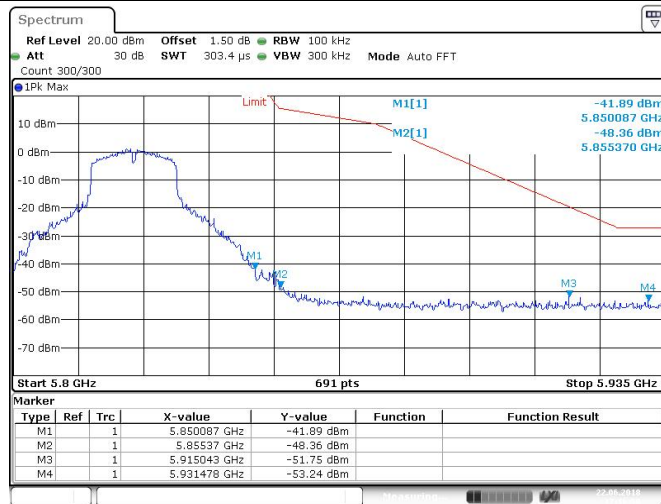
Date: 22 JUN 2018 17:01:43

11ac VHT20_Ant1_5825



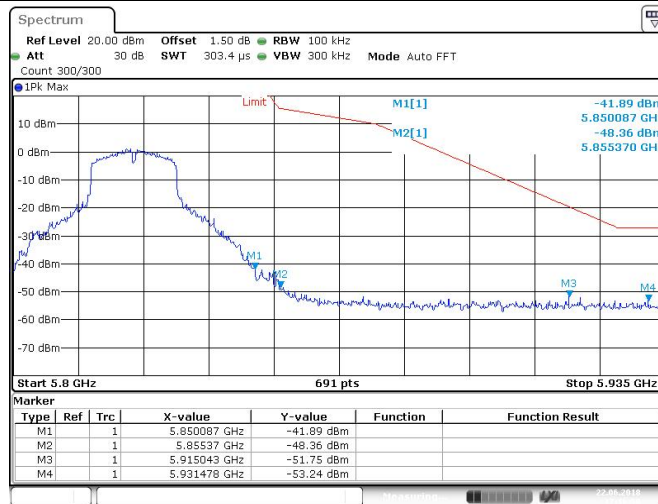
Date: 22 JUN 2018 17:16:58

11ac VHT20_Ant1_5825



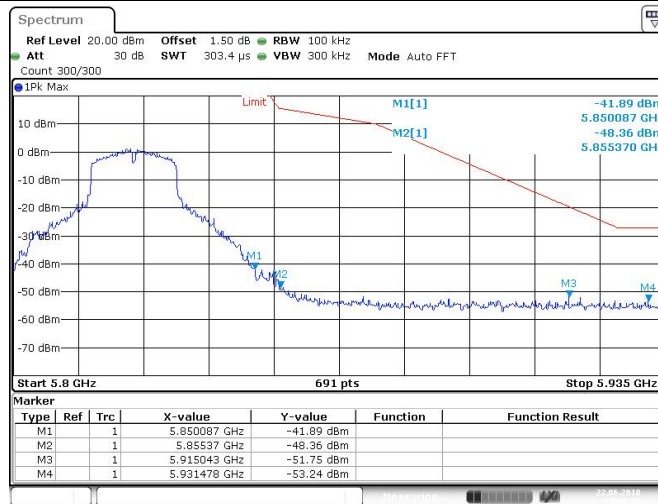
Date: 22 JUN 2018 17:16:58

11ac VHT20_Ant1_5825



Date: 22 JUN 2018 17:16:58

11ac VHT20_Ant1_5825



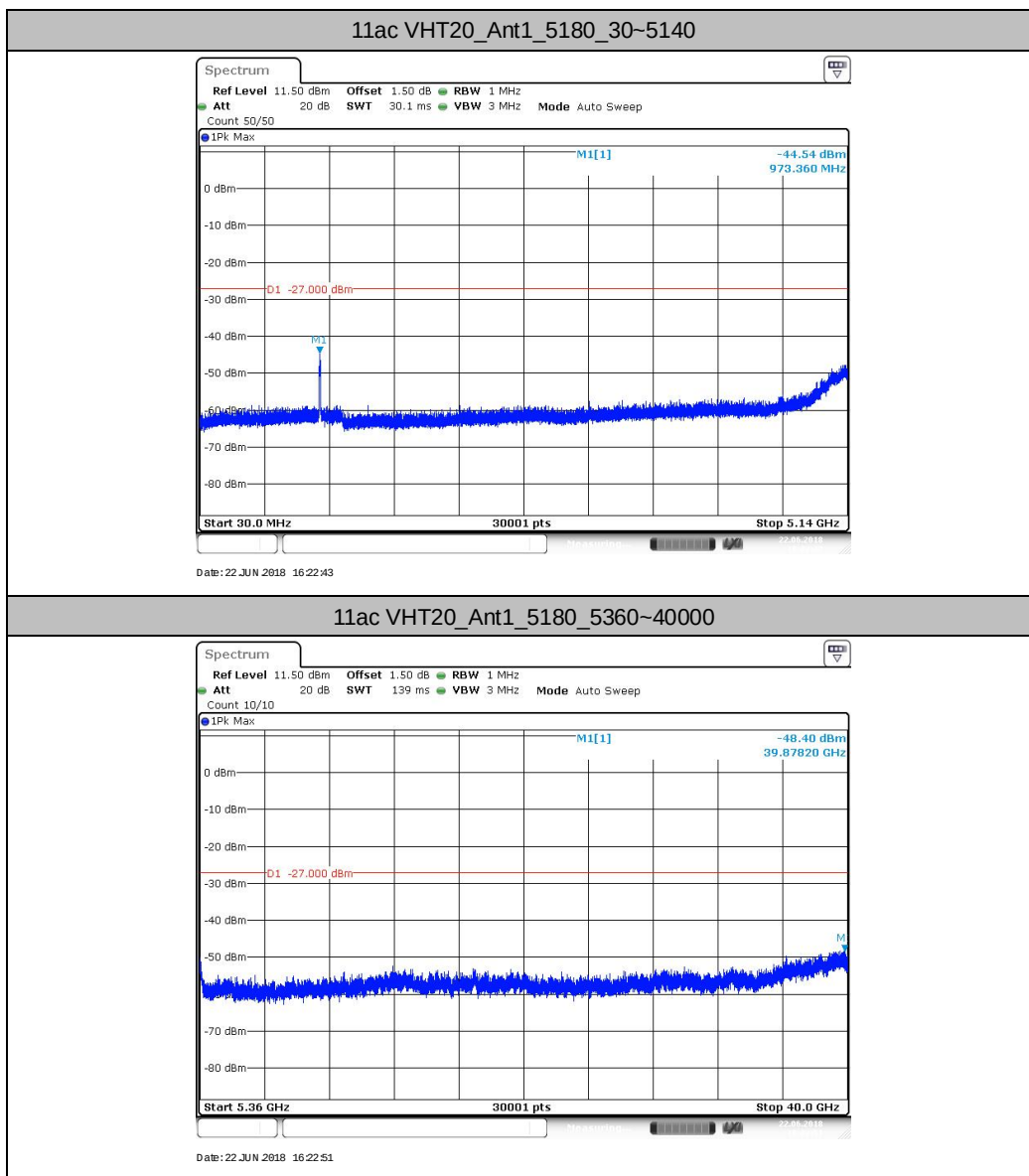
Date: 22 JUN 2018 17:16:58

Appendix D7: Conducted Spurious Emission

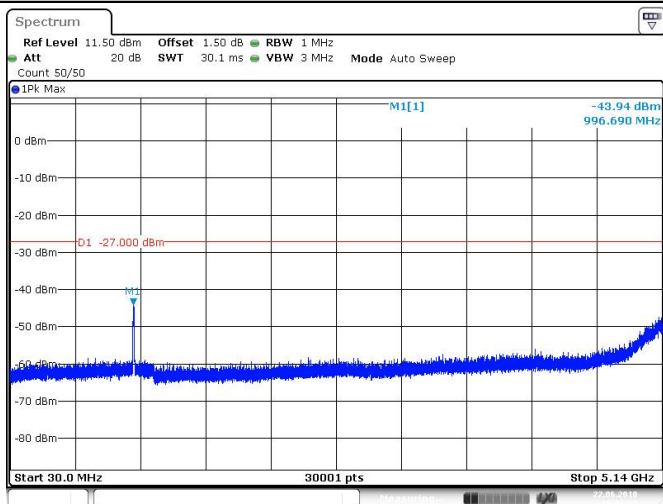
Test Result

TestMode	Antenna	Channel (MHz)	FreqRange (MHz)	Max. Fre (MHz)	Max. Level (dBm)	Limit (dBm)	Verdict
11ac VHT20	Ant1	5180	30~5140	973.36	-44.54	-27	PASS
		5180	5360~40000	39878.20	-48.4	-27	PASS
		5200	30~5140	996.69	-43.94	-27	PASS
		5200	5360~40000	39617.20	-47.72	-27	PASS
		5240	30~5140	1033.66	-44.75	-27	PASS
		5240	5360~40000	39728.10	-47.52	-27	PASS
		5260	30~5140	1054.61	-44.21	-27	PASS
		5260	5360~40000	5383.70	-46.94	-27	PASS
		5280	30~5140	1075.56	-43.18	-27	PASS
		5280	5360~40000	5368.70	-46.4	-27	PASS
		5320	30~5140	1116.61	-44.37	-27	PASS
		5320	5360~40000	5383.70	-44.93	-27	PASS
		5500	30~5460	5417.92	-45.65	-27	PASS
		5500	5735~40000	16496.70	-43.19	-27	PASS
		5580	30~5460	5455.75	-48.72	-27	PASS
		5580	5735~40000	16737.70	-44.92	-27	PASS
		5700	30~5460	1492.52	-52.24	-27	PASS
		5700	5735~40000	17103.20	-35.24	-27	PASS
		5745	30~5650	5649.91	-47.1	-27	PASS
		5745	5925~40000	17231.30	-35.74	-27	PASS
		5785	30~5650	5649.53	-49.07	-27	PASS
		5785	5925~40000	17359.60	-37.73	-27	PASS
		5825	30~5650	5649.16	-50.18	-27	PASS
		5825	5925~40000	17476.60	-38.05	-27	PASS

Test Graphs

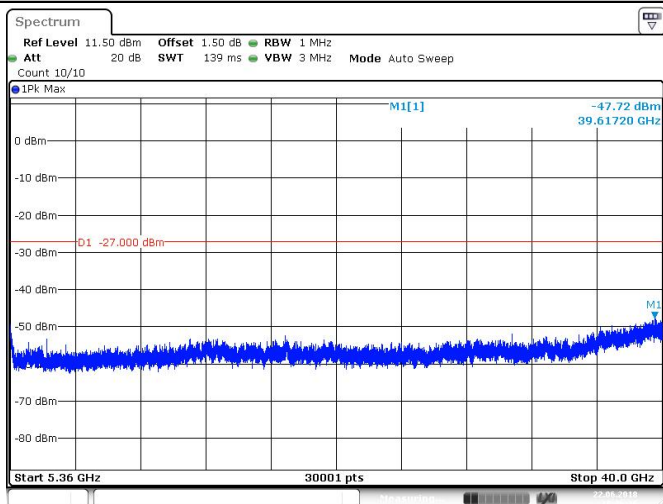


11ac VHT20_Ant1_5200_30~5140



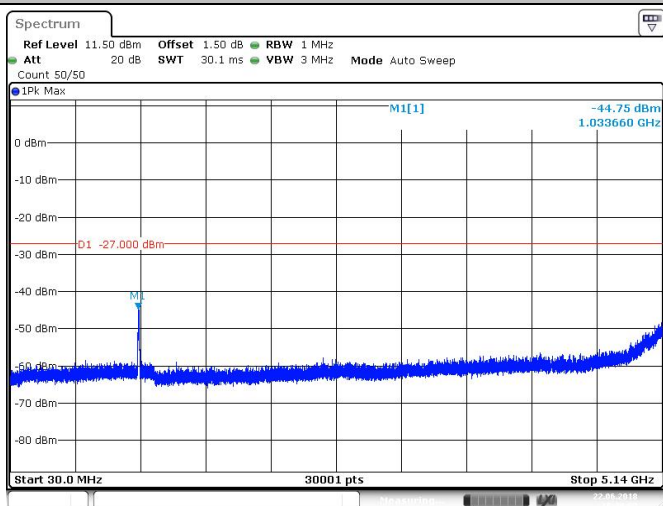
Date: 22 JUN 2018 16:26:28

11ac VHT20_Ant1_5200_5360~40000



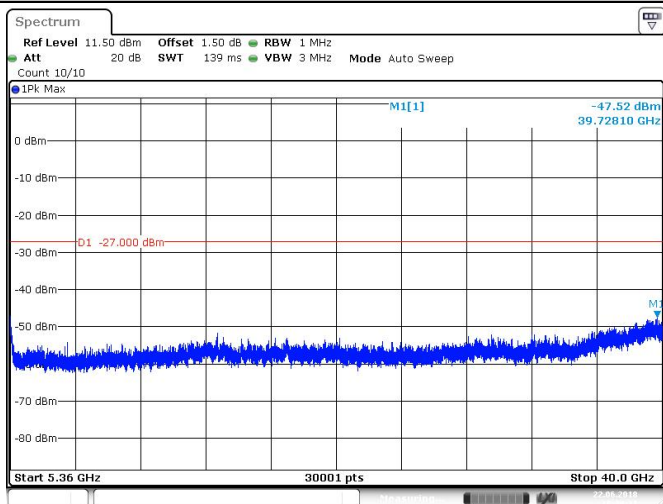
Date: 22 JUN 2018 16:26:36

11ac VHT20_Ant1_5240_30~5140



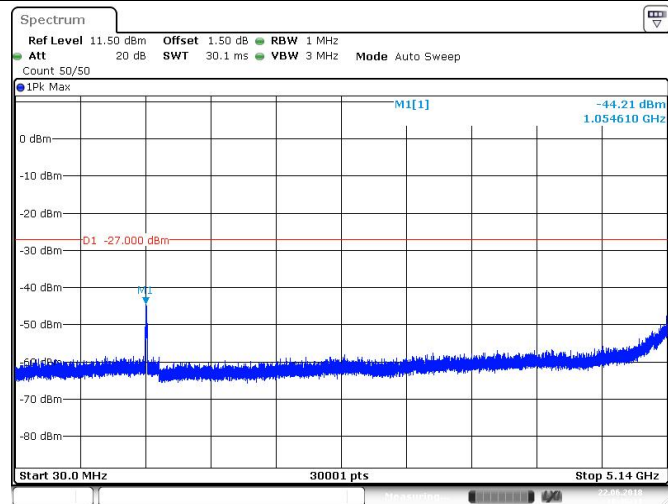
Date: 22 JUN 2018 16:38:93

11ac VHT20_Ant1_5240_5360~40000



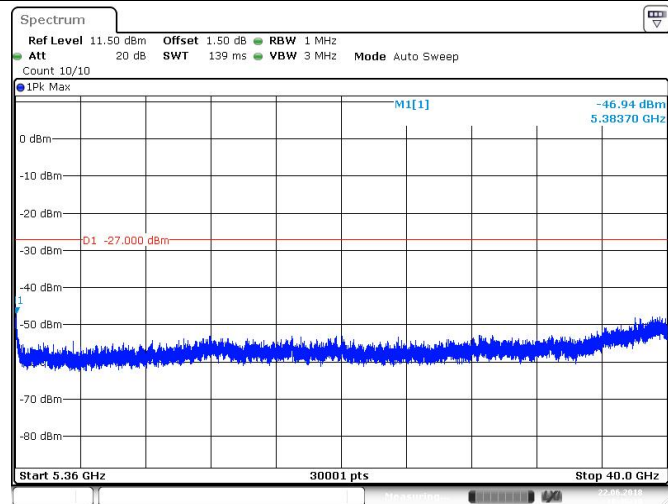
Date: 22 JUN 2018 16:38:11

11ac VHT20_Ant1_5260_30~5140



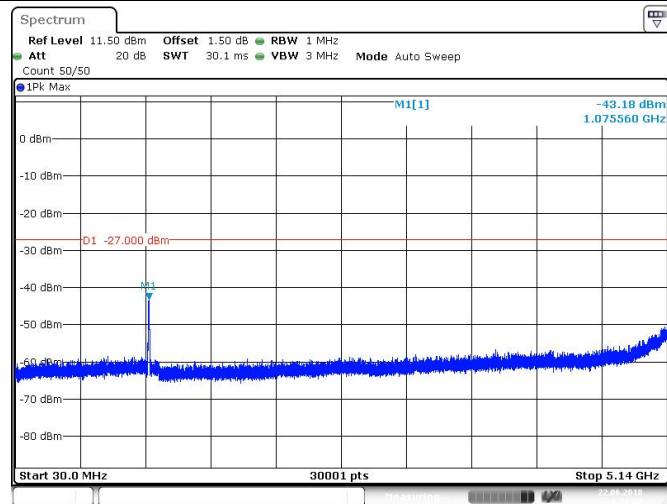
Date: 22 JUN 2018 16:35:11

11ac VHT20_Ant1_5260_5360~40000



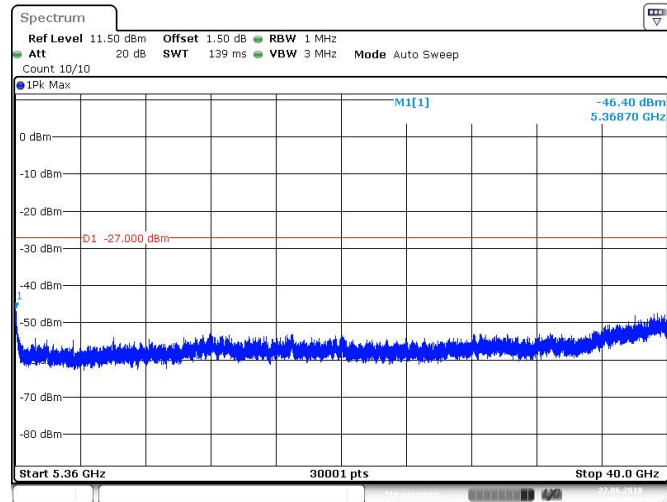
Date: 22 JUN 2018 16:35:29

11ac VHT20_Ant1_5280_30~5140



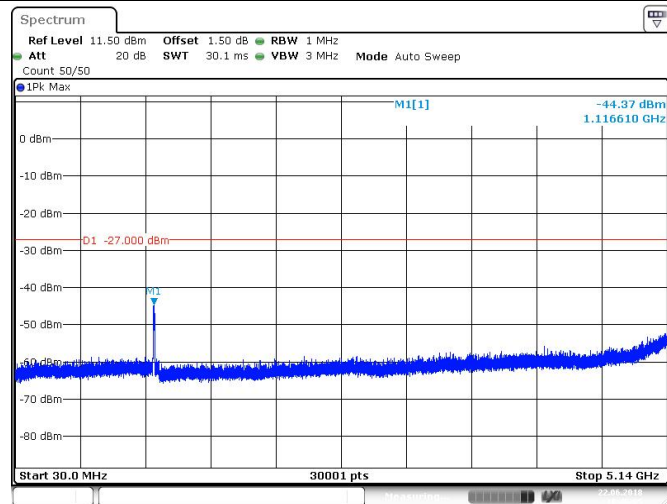
Date: 22 JUN 2018 16:41:93

11ac VHT20_Ant1_5280_5360~40000



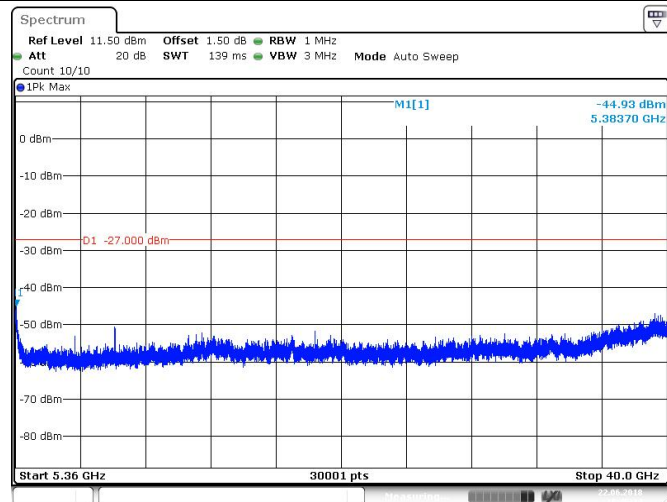
Date: 22 JUN 2018 16:41:11

11ac VHT20_Ant1_5320_30~5140



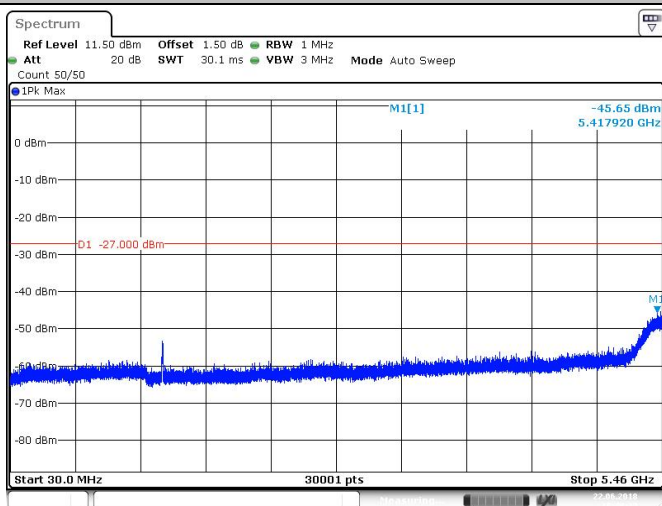
Date: 22 JUN 2018 16:45:05

11ac VHT20_Ant1_5320_5360~40000



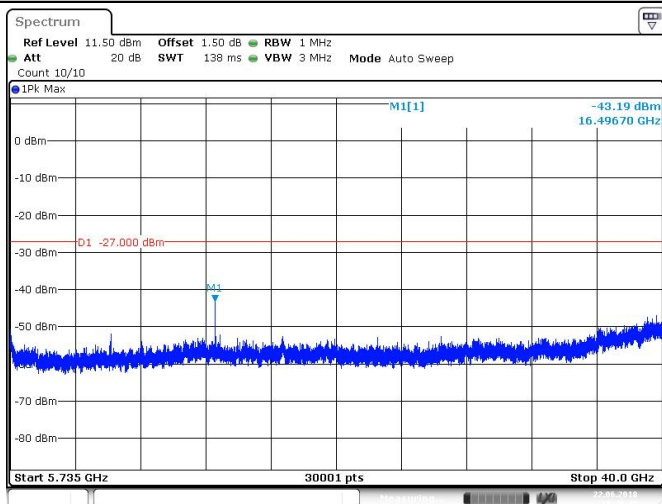
Date: 22 JUN 2018 16:45:14

11ac VHT20_Ant1_5500_30~5460



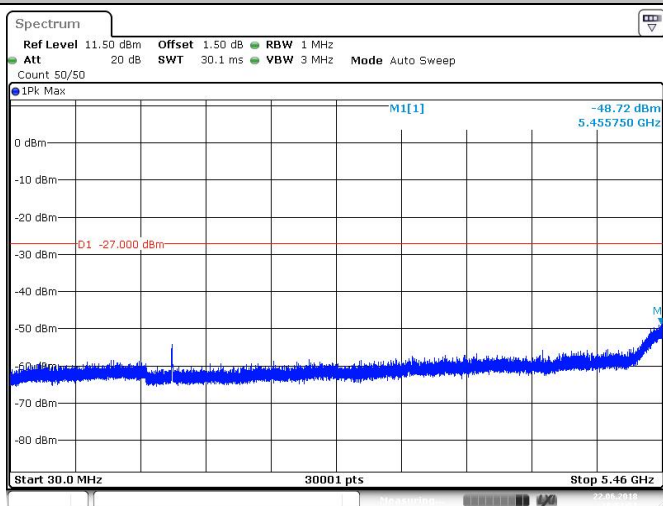
Date: 22 JUN 2018 16:48:34

11ac VHT20_Ant1_5500_5735~40000



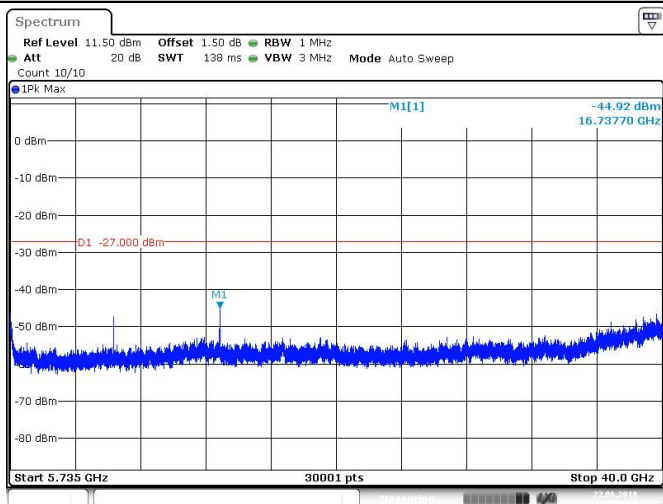
Date: 22 JUN 2018 16:48:43

11ac VHT20_Ant1_5580_30~5460



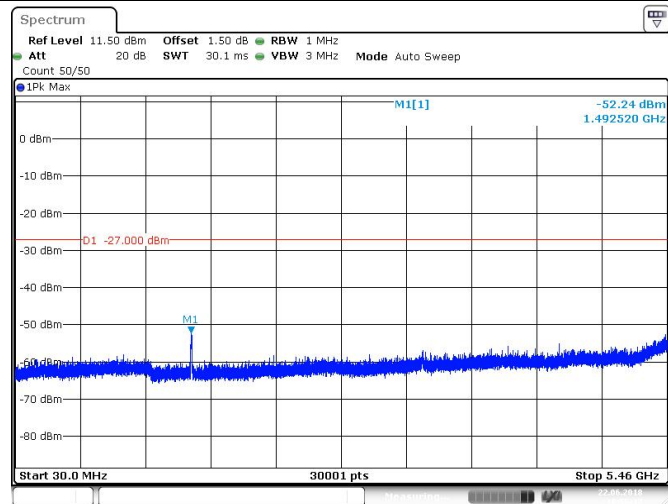
Date: 22 JUN 2018 16:51:52

11ac VHT20_Ant1_5580_5735~40000



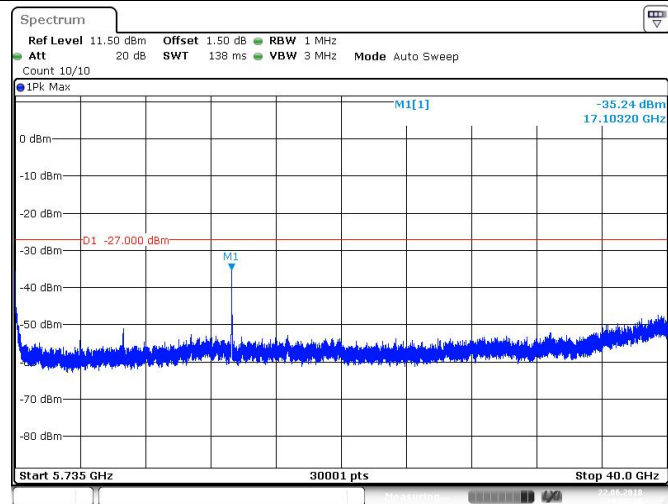
Date: 22 JUN 2018 16:52:00

11ac VHT20_Ant1_5700_30~5460



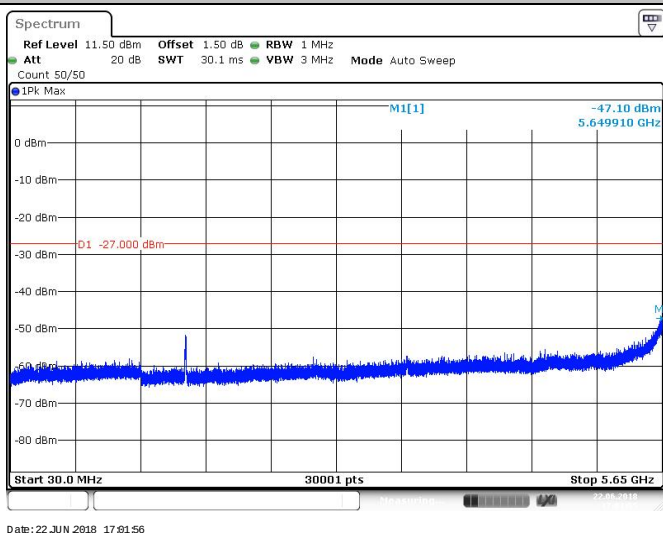
Date: 22 JUN 2018 16:55:18

11ac VHT20_Ant1_5700_5735~40000

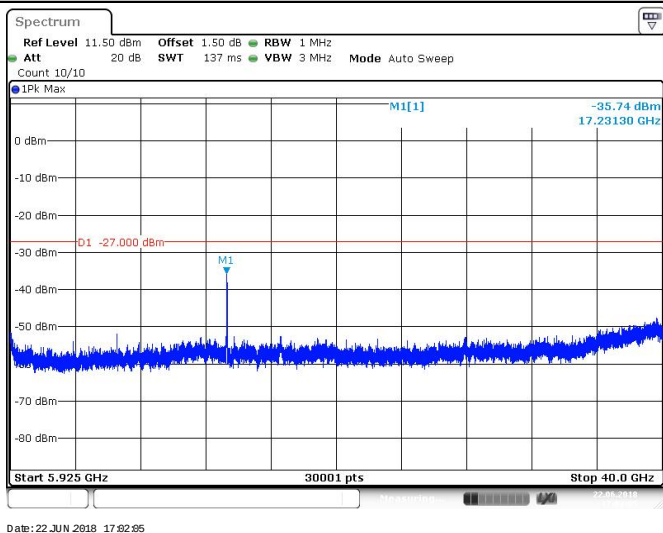


Date: 22 JUN 2018 16:55:26

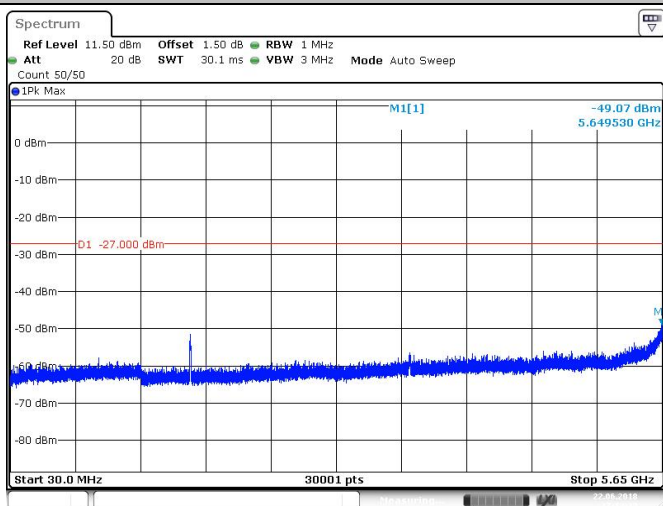
11ac VHT20_Ant1_5745_30~5650



11ac VHT20_Ant1_5745_5925~40000

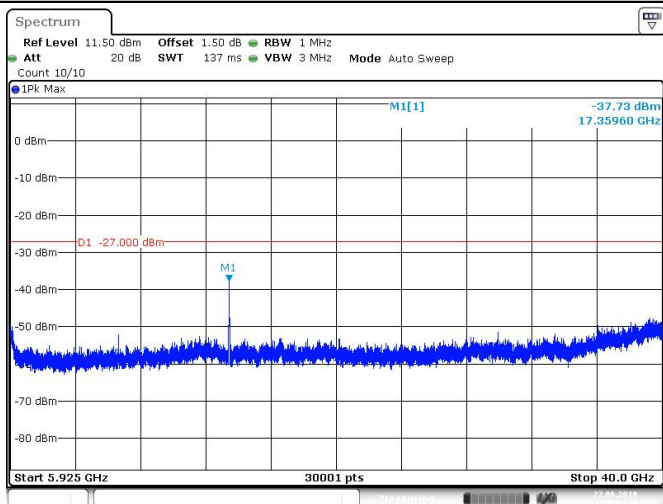


11ac VHT20_Ant1_5785_30~5650



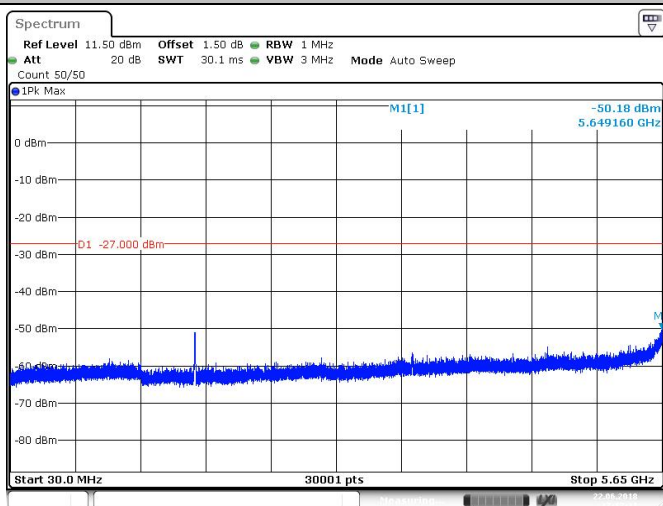
Date: 22 JUN 2018 17:13:14

11ac VHT20_Ant1_5785_5925~40000



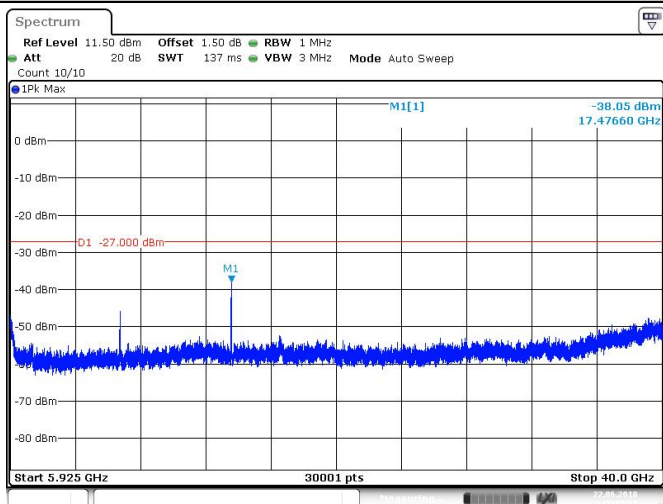
Date: 22 JUN 2018 17:13:22

11ac VHT20_Ant1_5825_30~5650



Date: 22 JUN 2018 17:17:11

11ac VHT20_Ant1_5825_5925~40000



Date: 22 JUN 2018 17:17:29

Appendix D8: Frequency Stability

Test Result

TestMod e	Antenn a	Voltage						
		Channe l (MHz)	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11ac VHT20	Ant1	5180	NV	NT	15000	2.895753	20	PASS
		5180	LV	NT	15000	2.895753	20	PASS
		5180	HV	NT	0	0	20	PASS
		5200	NV	NT	15000	2.884615	20	PASS
		5200	LV	NT	0	0	20	PASS
		5200	HV	NT	0	0	20	PASS
		5240	NV	NT	15000	2.862595	20	PASS
		5240	LV	NT	15000	2.862595	20	PASS
		5240	HV	NT	-15000	-2.862595	20	PASS
		5260	NV	NT	15000	2.851711	20	PASS
		5260	LV	NT	30000	5.703422	20	PASS
		5260	HV	NT	-15000	-2.851711	20	PASS
		5280	NV	NT	15000	2.840909	20	PASS
		5280	LV	NT	15000	2.840909	20	PASS
		5280	HV	NT	0	0	20	PASS
		5320	NV	NT	0	0	20	PASS
		5320	LV	NT	-15000	-2.819549	20	PASS
		5320	HV	NT	0	0	20	PASS
		5500	NV	NT	-30000	-5.454545	20	PASS
		5500	LV	NT	0	0	20	PASS
		5500	HV	NT	0	0	20	PASS
		5580	NV	NT	0	0	20	PASS
		5580	LV	NT	0	0	20	PASS
		5580	HV	NT	15000	2.688172	20	PASS
		5700	NV	NT	15000	2.631579	20	PASS
		5700	LV	NT	0	0	20	PASS
		5700	HV	NT	0	0	20	PASS
		5745	NV	NT	15000	2.610966	20	PASS
		5745	LV	NT	0	0	20	PASS
		5745	HV	NT	0	0	20	PASS
		5785	NV	NT	0	0	20	PASS
		5785	LV	NT	0	0	20	PASS
		5785	HV	NT	15000	2.592913	20	PASS
		5825	NV	NT	-15000	-2.575107	20	PASS
		5825	LV	NT	-15000	-2.575107	20	PASS
		5825	HV	NT	-15000	-2.575107	20	PASS

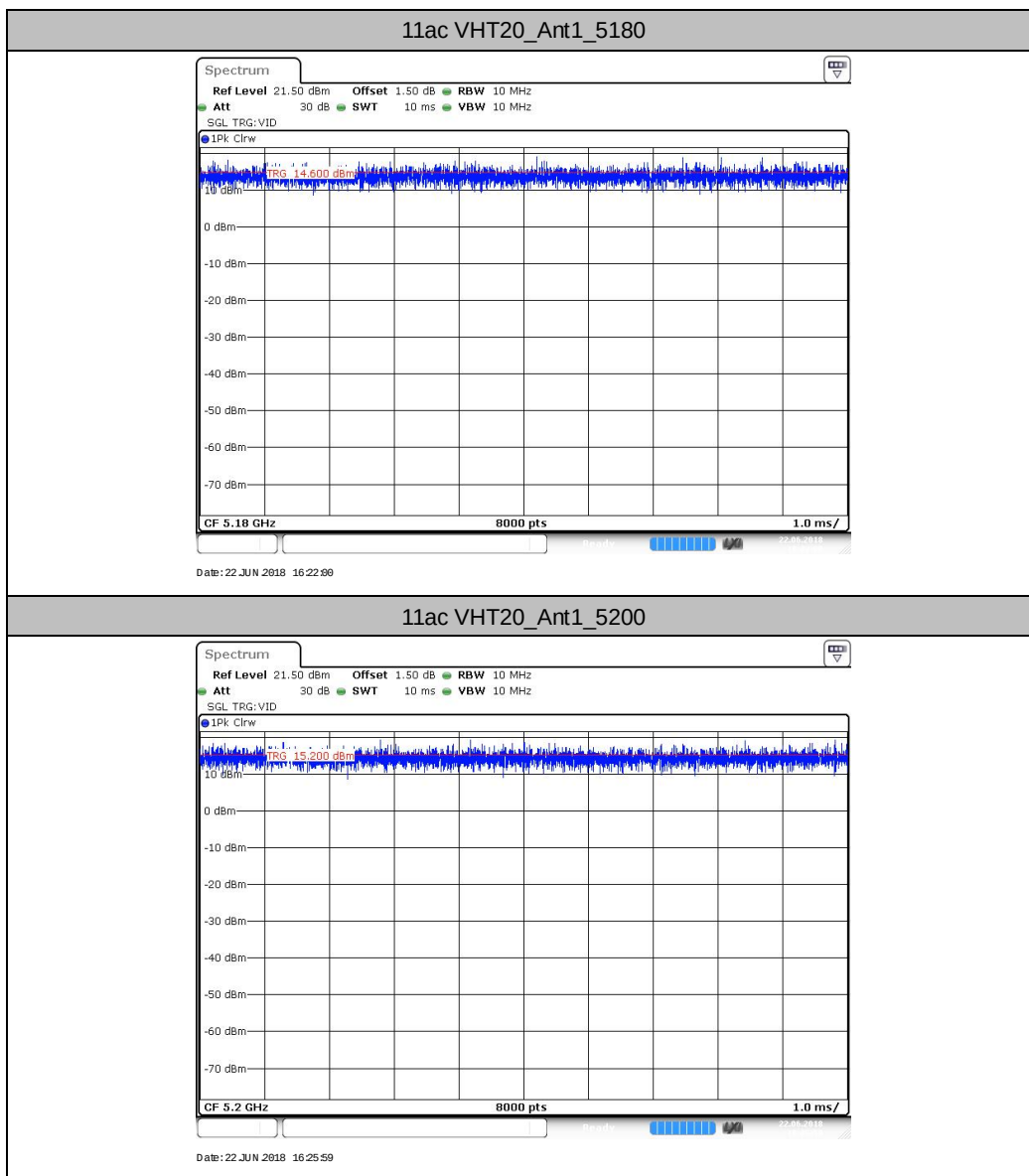
Temperature								
TestMod e	Antenn a	Channe l (MHz)	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11ac VHT20	Ant1	5180	NV	-5	0	0	20	PASS
		5180	NV	50	0	0	20	PASS
		5200	NV	-5	15000	2.884615	20	PASS
		5200	NV	50	0	0	20	PASS
		5240	NV	-5	0	0	20	PASS
		5240	NV	50	-15000	-2.862595	20	PASS
		5260	NV	-5	0	0	20	PASS
		5260	NV	50	15000	2.851711	20	PASS
		5280	NV	-5	0	0	20	PASS
		5280	NV	50	0	0	20	PASS
		5320	NV	-5	15000	2.819549	20	PASS
		5320	NV	50	-15000	-2.819549	20	PASS
		5500	NV	-5	0	0	20	PASS
		5500	NV	50	0	0	20	PASS
		5580	NV	-5	0	0	20	PASS
		5580	NV	50	15000	2.688172	20	PASS
		5700	NV	-5	15000	2.631579	20	PASS
		5700	NV	50	30000	5.263158	20	PASS
		5745	NV	-5	15000	2.610966	20	PASS
		5745	NV	50	0	0	20	PASS
		5785	NV	-5	15000	2.592913	20	PASS
		5785	NV	50	0	0	20	PASS
		5825	NV	-5	15000	2.575107	20	PASS
		5825	NV	50	15000	2.575107	20	PASS

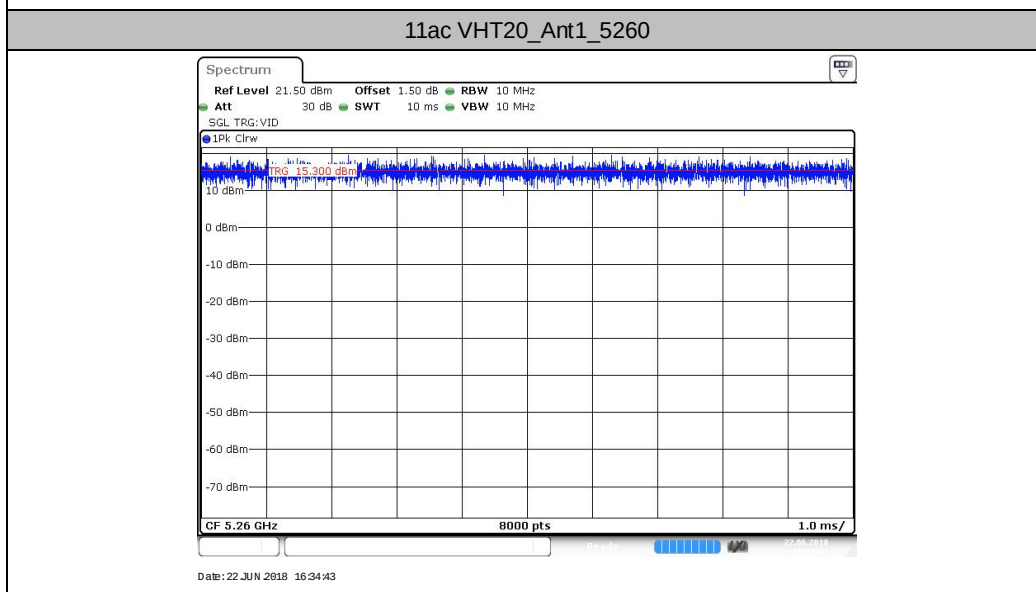
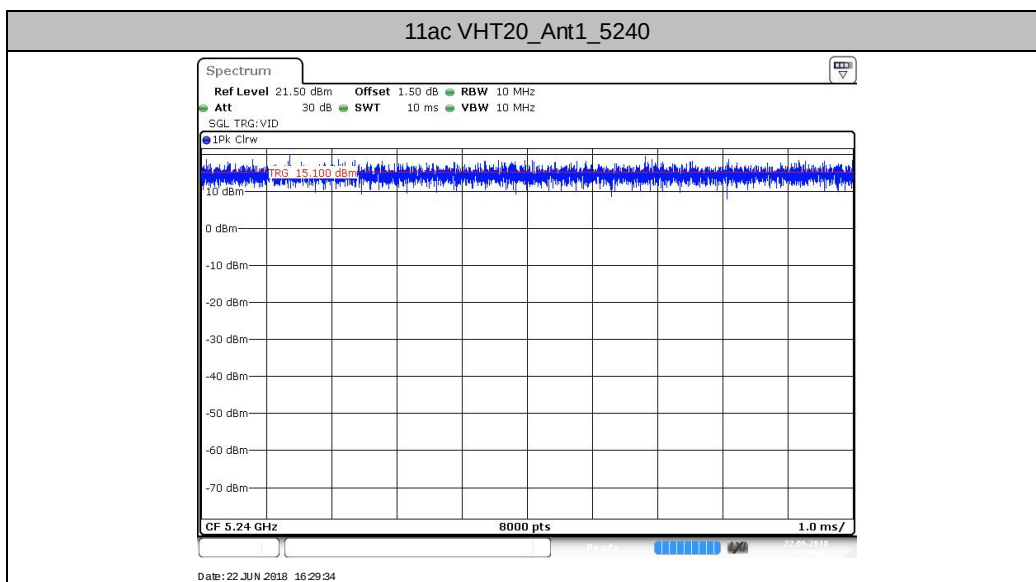
Appendix D9: Duty Cycle

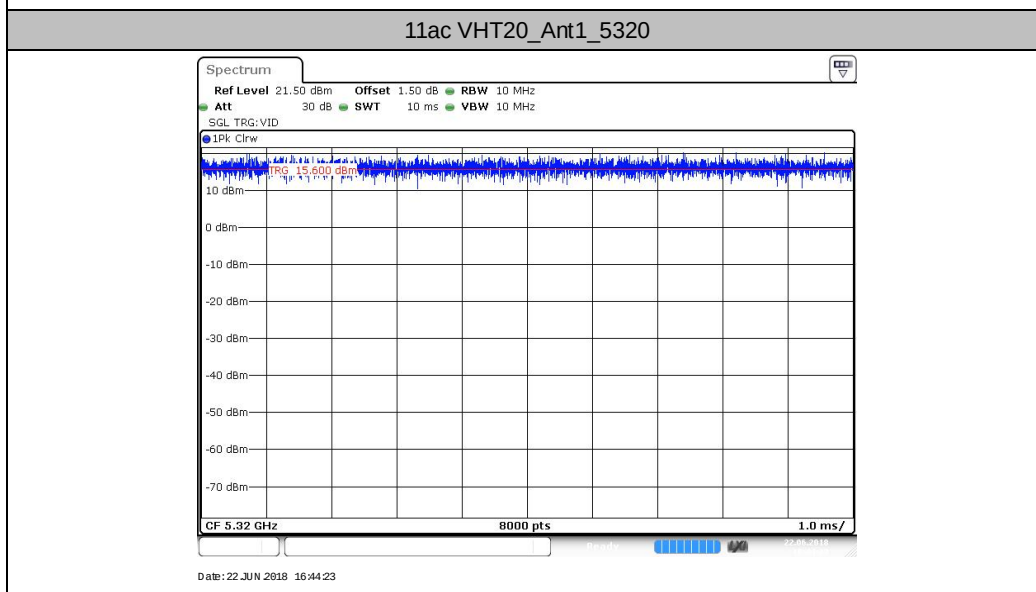
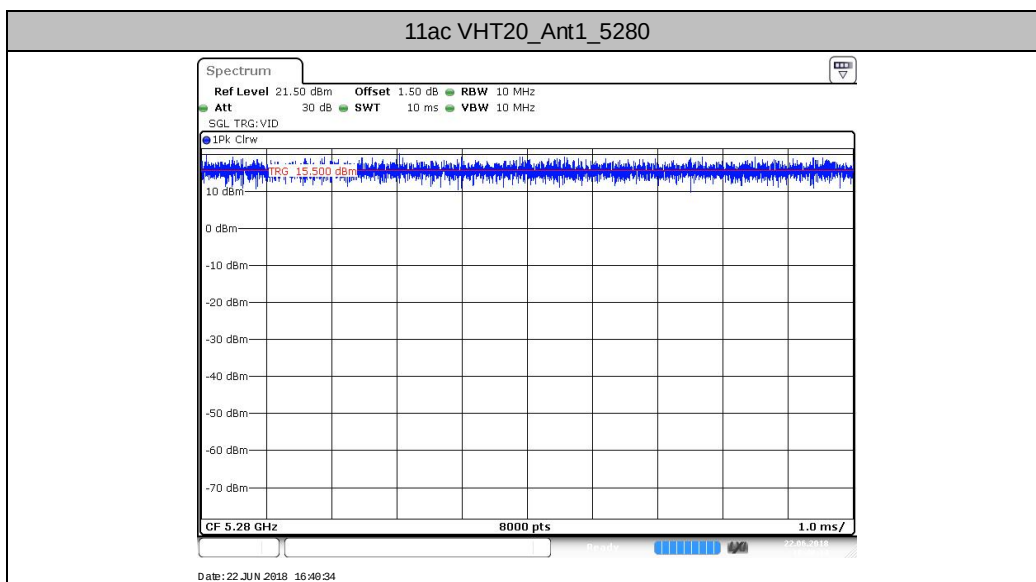
Test Result

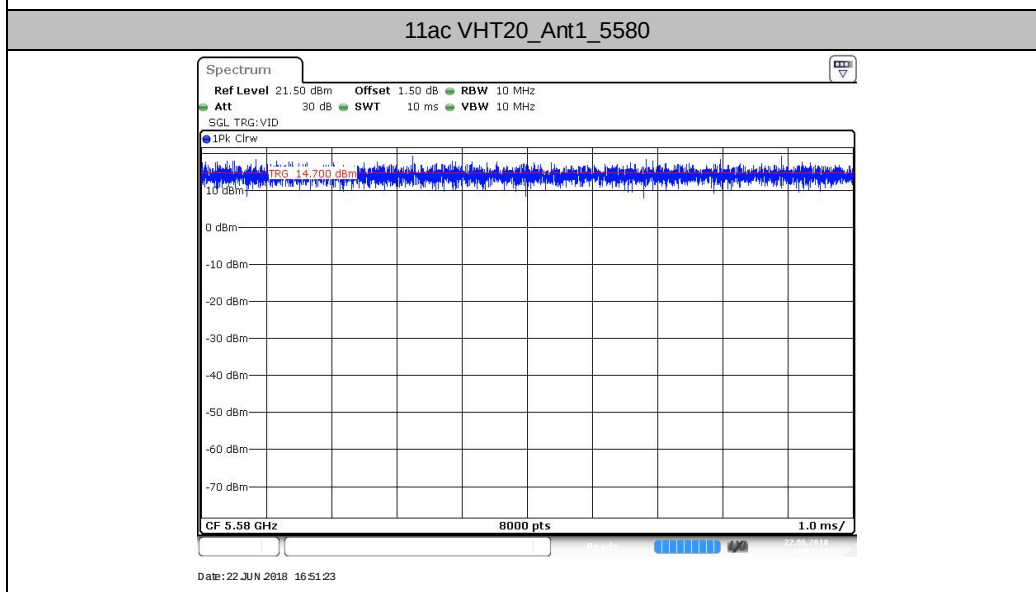
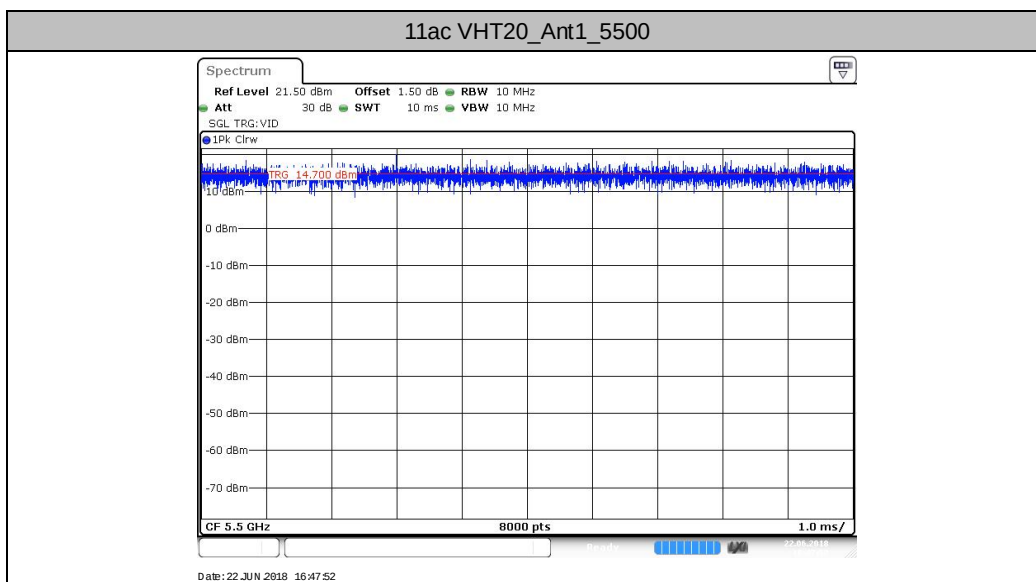
TestMode	Antenna	Channel (MHz)	Duty Cycle [%]
11ac VHT20	Ant1	5180	100
		5200	100
		5240	100
		5260	100
		5280	100
		5320	100
		5500	100
		5580	100
		5700	100
		5745	100
		5785	100
		5825	100

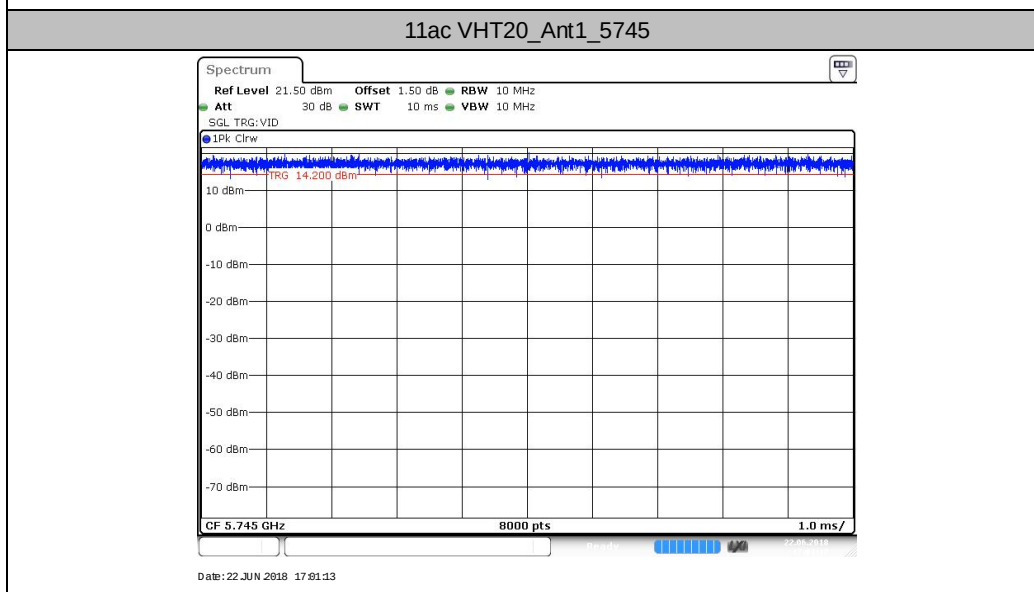
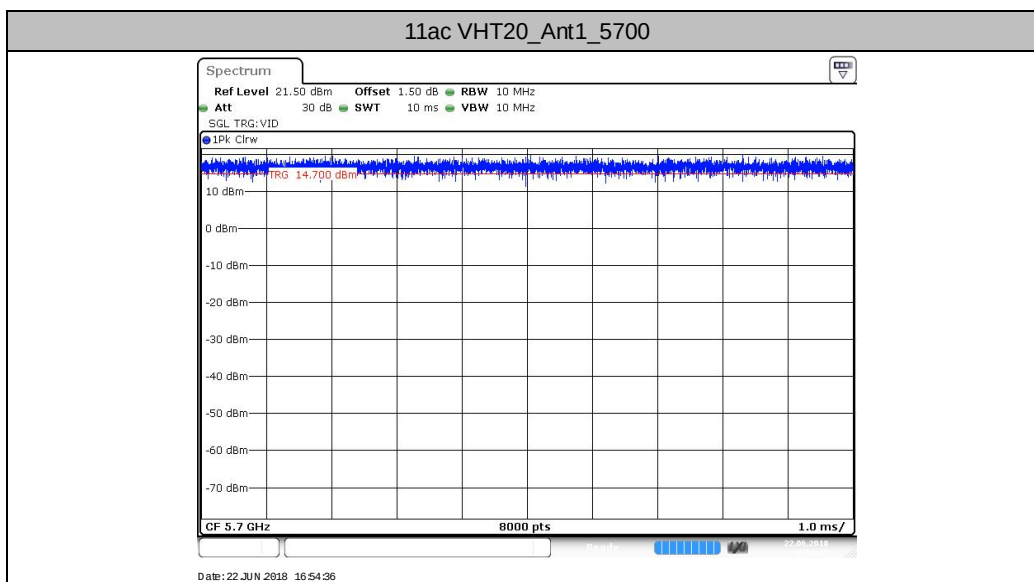
Test Graphs



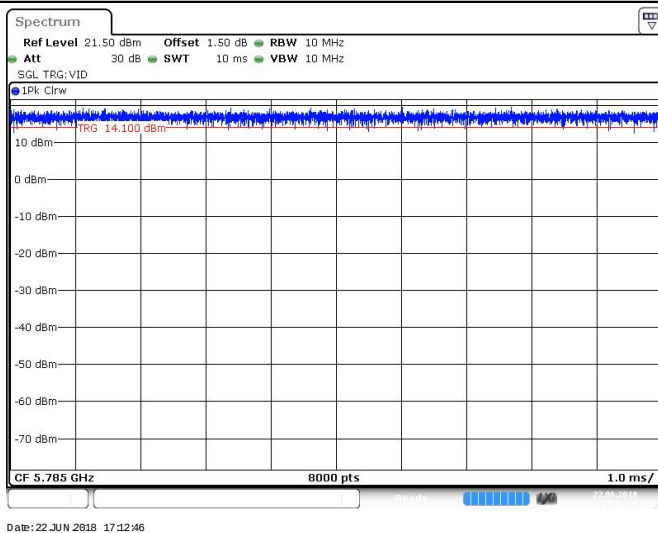








11ac VHT20_Ant1_5785



11ac VHT20_Ant1_5825

