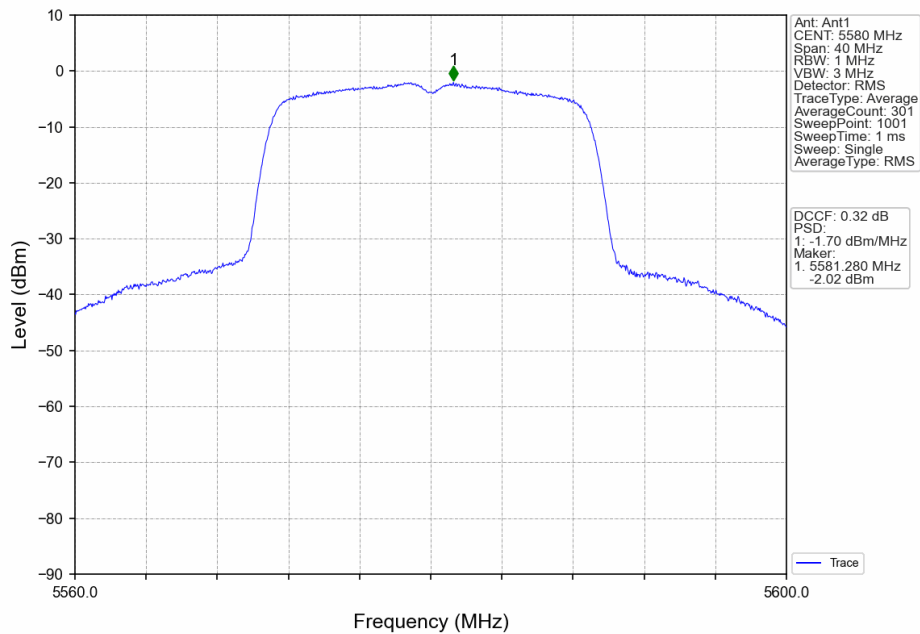
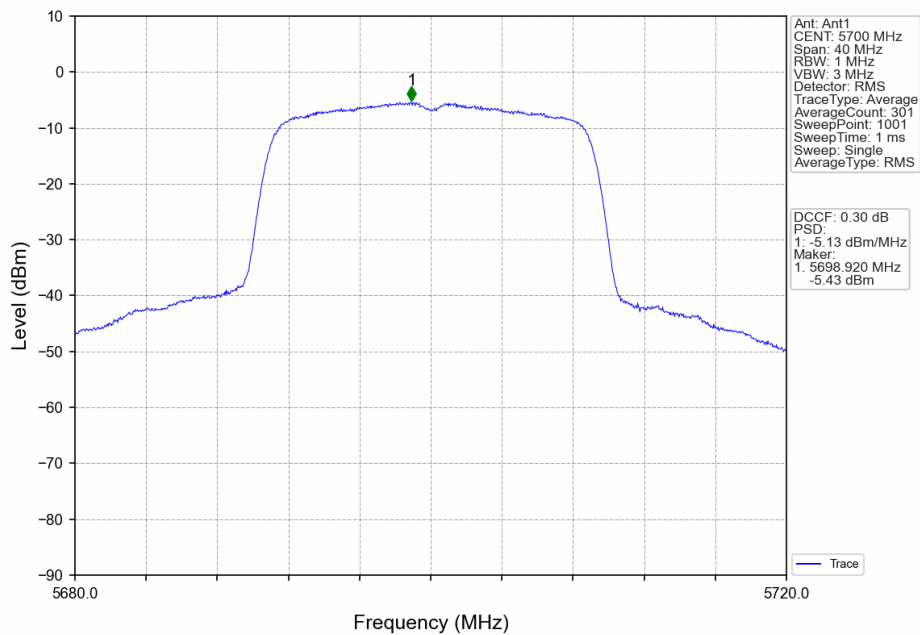


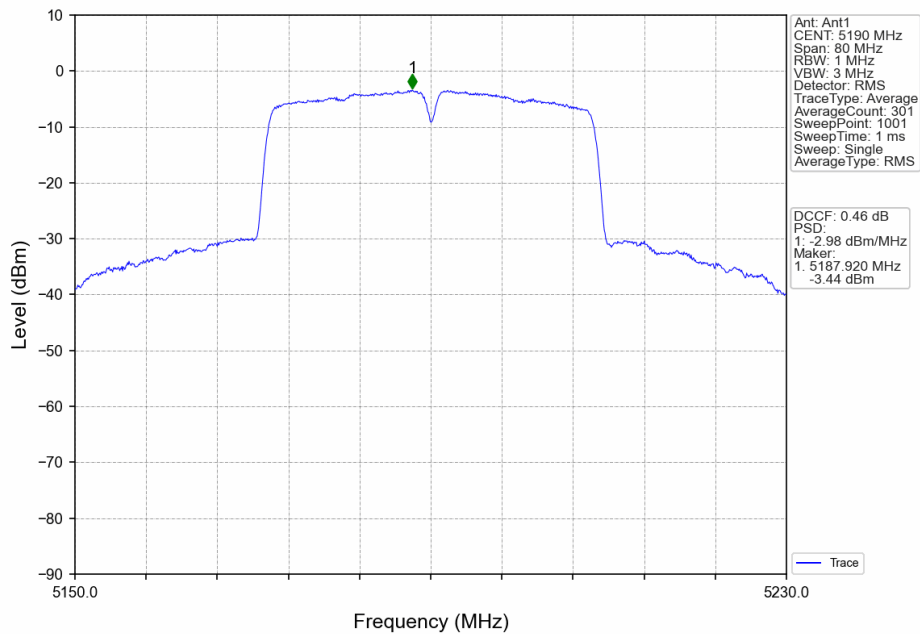
802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV



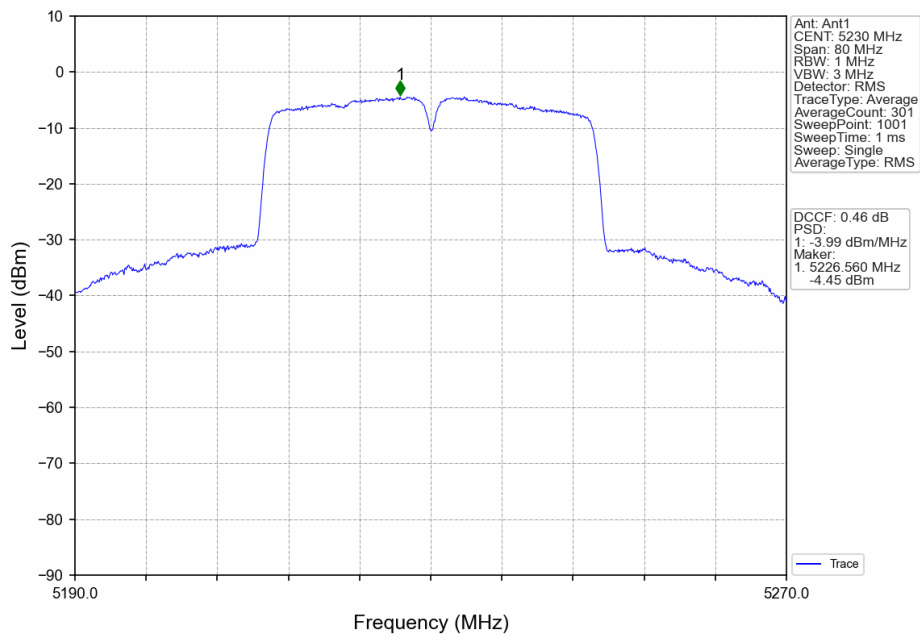
802.11n(HT20)\_HCH\_5700MHz\_Ant1\_NTNV



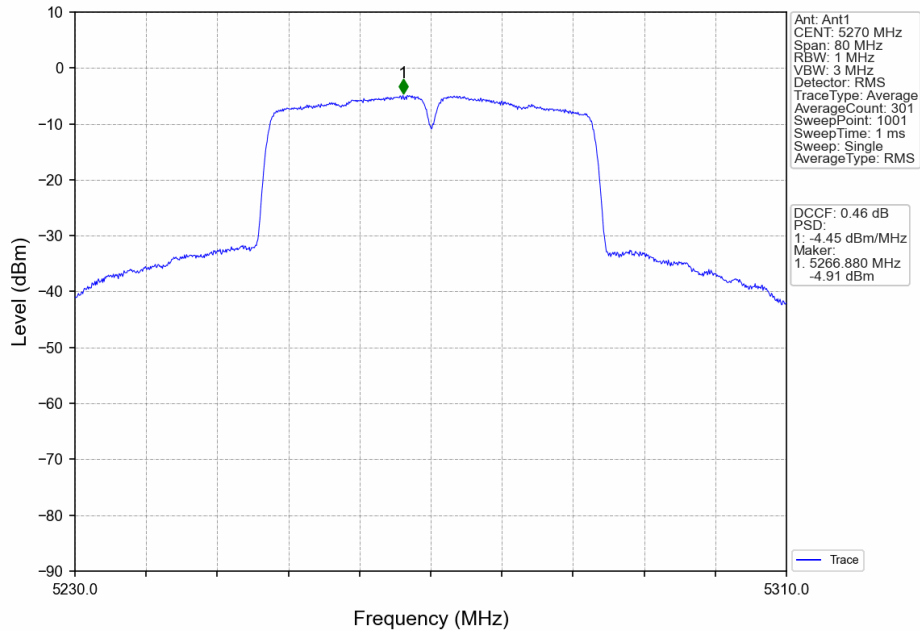
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



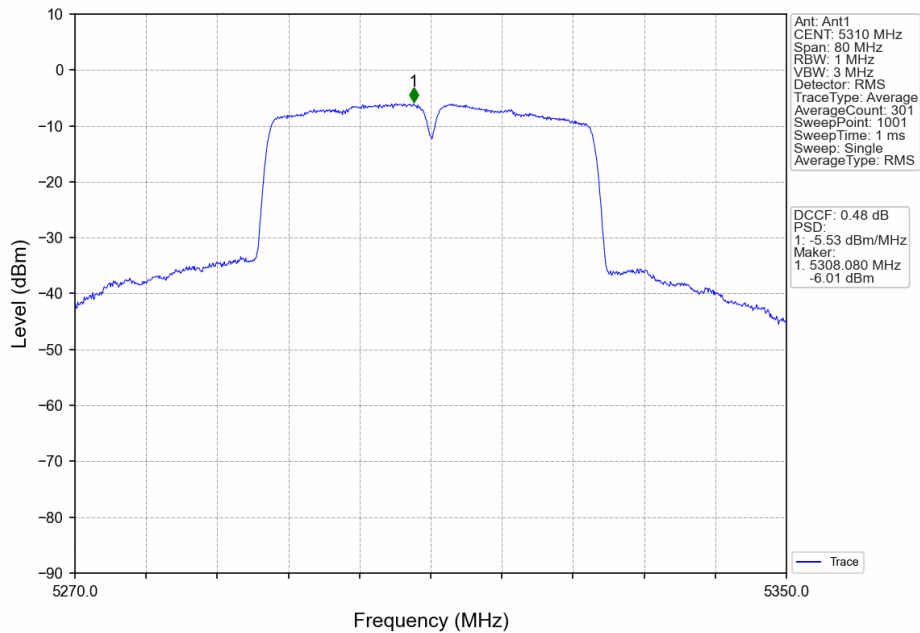
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



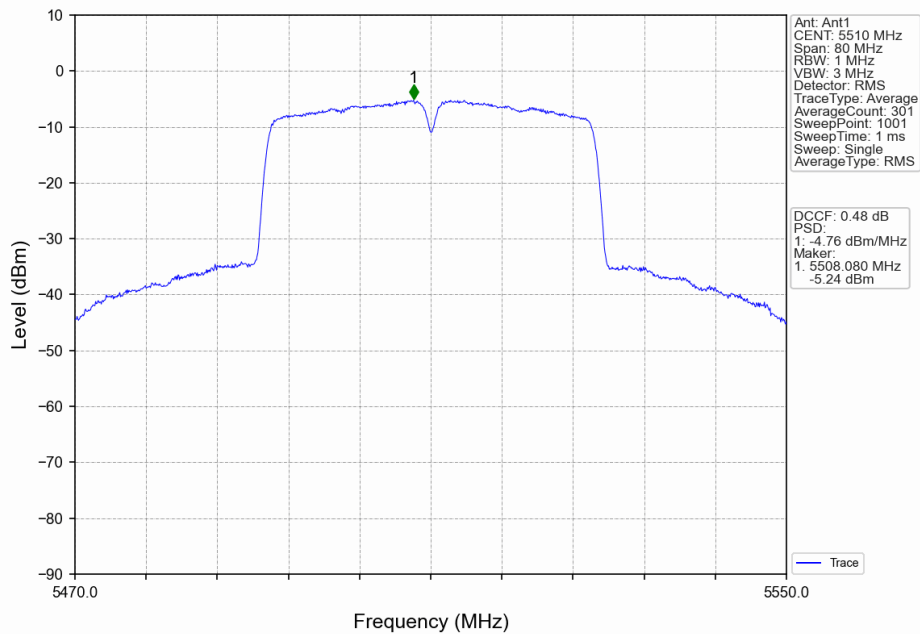
802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



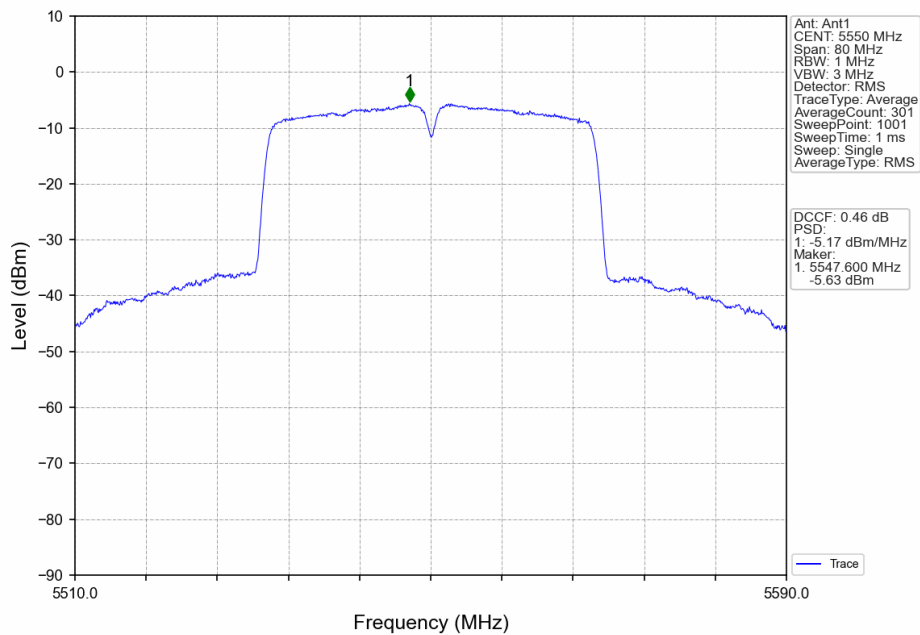
802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



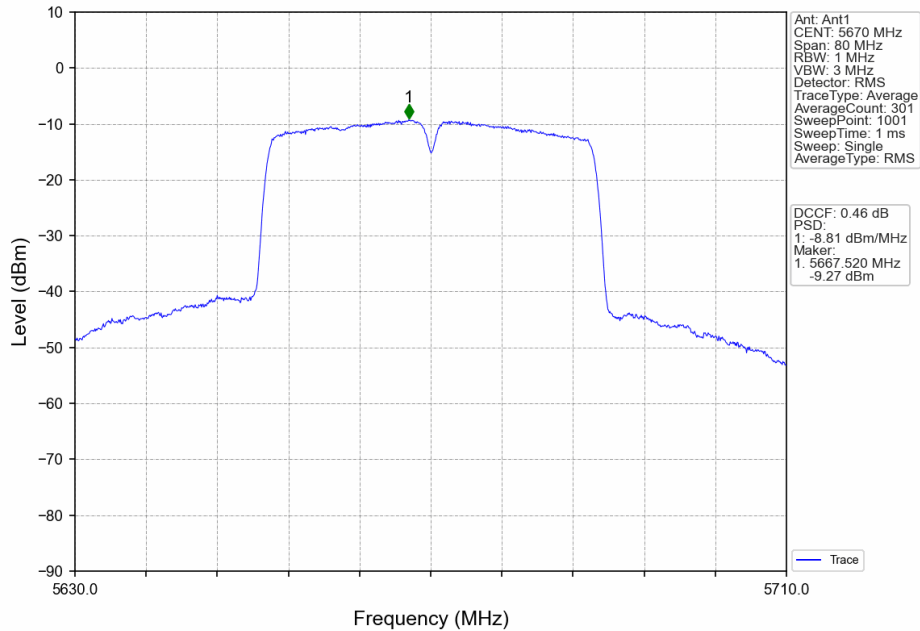
802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 274 of 292

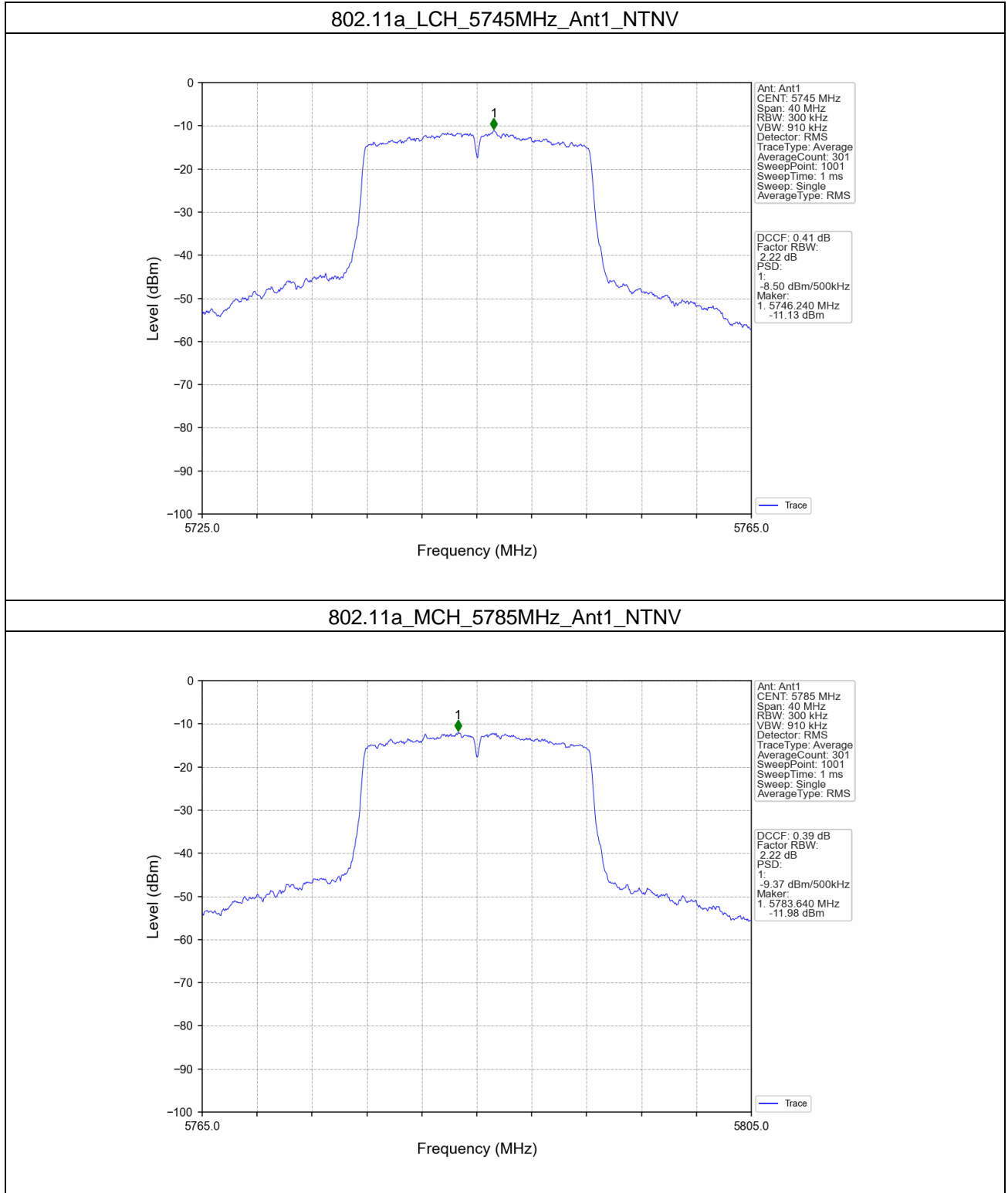
## 4.2 PSD-Band3

### 4.2.1 Test Result

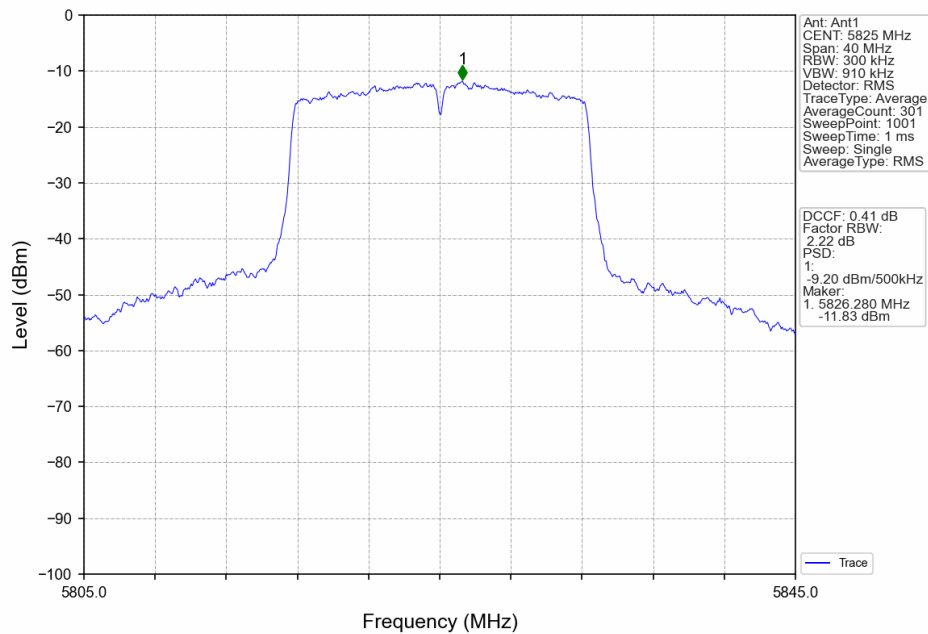
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-8.50	<=30	Pass
		5785	-9.37	<=30	Pass
		5825	-9.20	<=30	Pass
802.11n (HT20)	SISO	5745	-9.48	<=30	Pass
		5785	-10.10	<=30	Pass
		5825	-9.66	<=30	Pass
802.11n (HT40)	SISO	5755	-12.98	<=30	Pass
		5795	-12.86	<=30	Pass

Note1: Antenna Gain: Ant1: 3.02dBi;

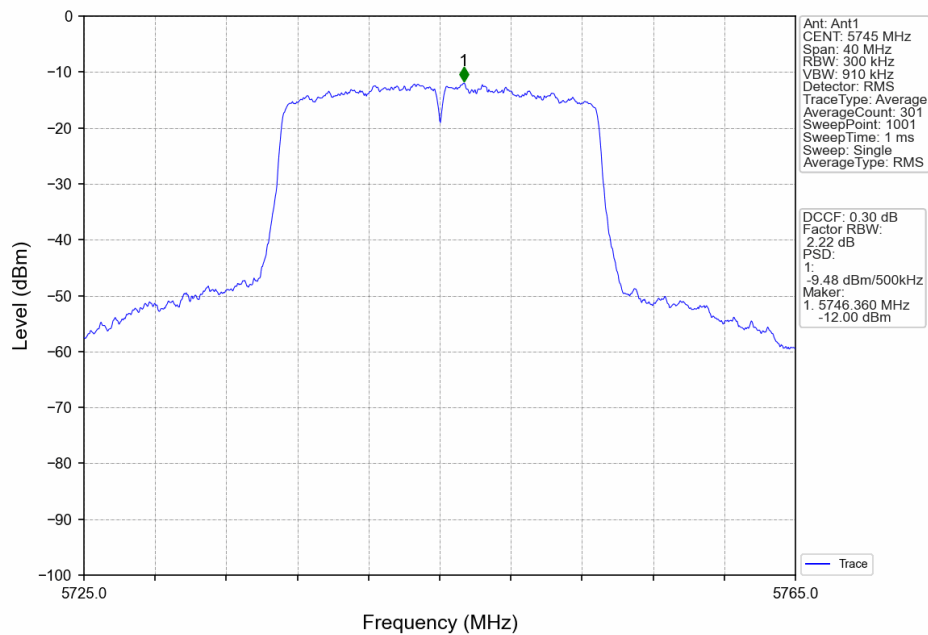
### 4.2.2 Test Graph



802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



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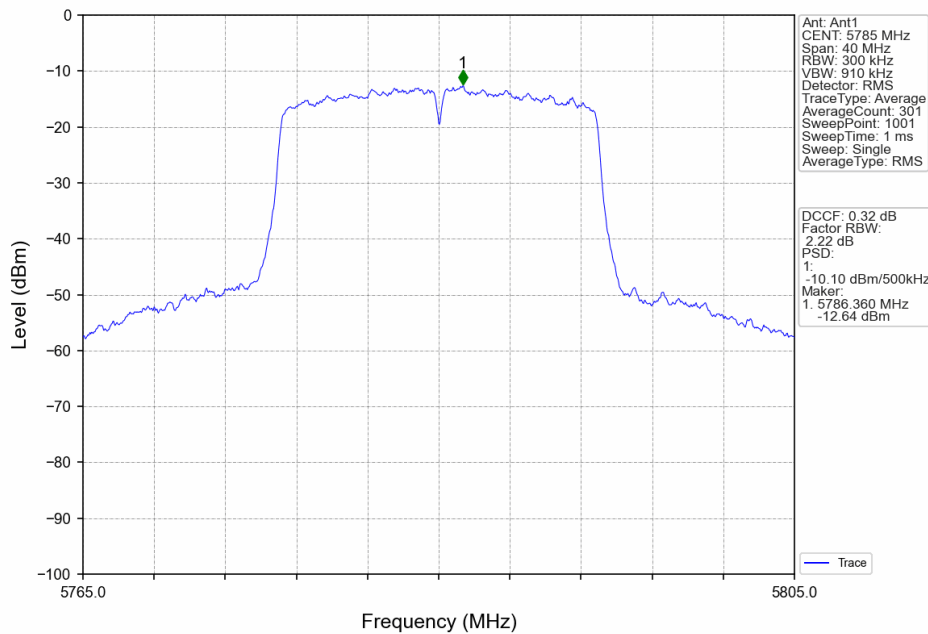
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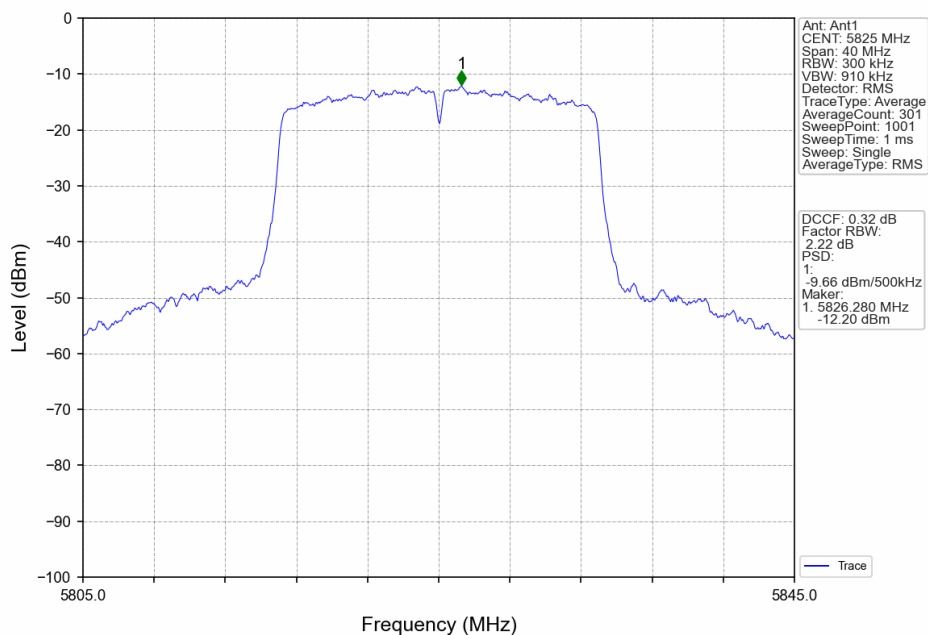
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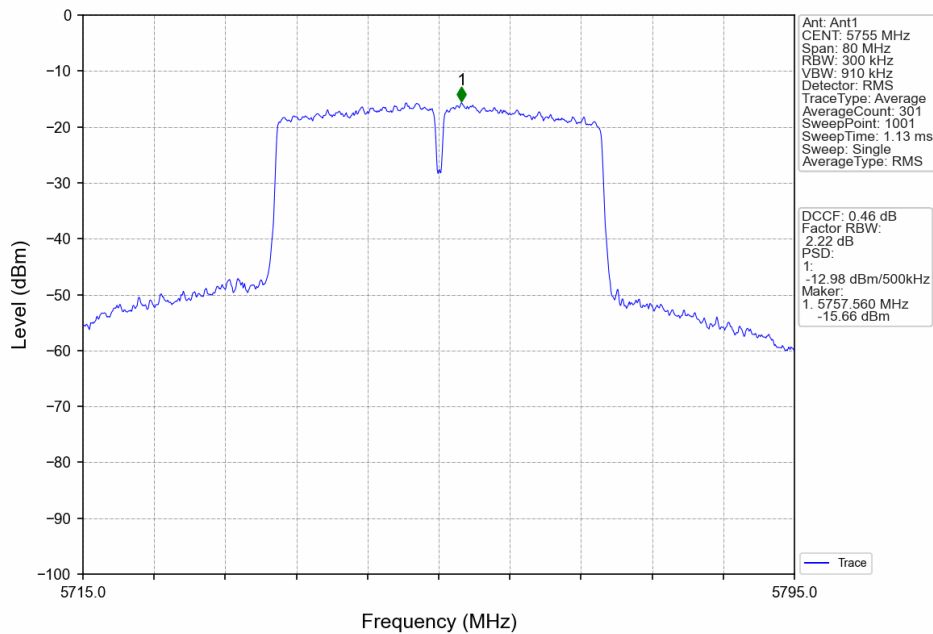
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



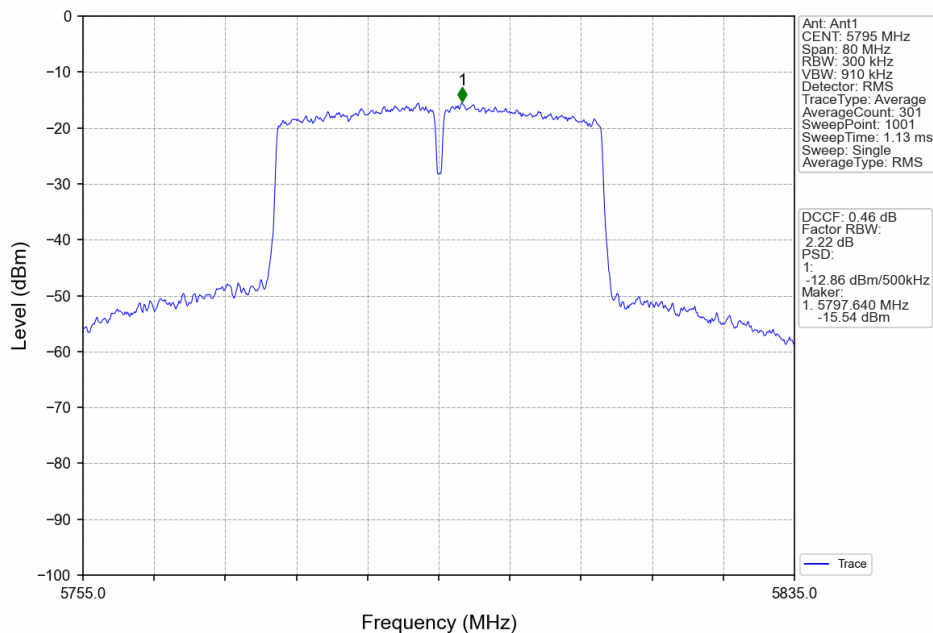
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



### 5. Frequency Stability

#### 5.1 Ant1

##### 5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5180.040	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
				138	5180.040	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5180.040	5150 to 5250	Pass
			-10	120	5180.040	5150 to 5250	Pass
			0	120	5180.000	5150 to 5250	Pass
			10	120	5180.040	5150 to 5250	Pass
			30	120	5180.040	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass
			50	120	5180.040	5150 to 5250	Pass
		5200	20	102	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
			-20	120	5200.040	5150 to 5250	Pass
			-10	120	5200.020	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass
			30	120	5200.020	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.020	5150 to 5250	Pass
				138	5240.020	5150 to 5250	Pass
			-30	120	5240.040	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.020	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass
			30	120	5240.020	5150 to 5250	Pass



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## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 280 of 292

			40	120	5240.020	5150 to 5250	Pass
			50	120	5240.020	5150 to 5250	Pass
		5260	20	102	5260.020	5250 to 5350	Pass
				120	5260.020	5250 to 5350	Pass
				138	5260.020	5250 to 5350	Pass
			-30	120	5260.020	5250 to 5350	Pass
			-20	120	5260.020	5250 to 5350	Pass
			-10	120	5260.040	5250 to 5350	Pass
			0	120	5260.020	5250 to 5350	Pass
			10	120	5260.040	5250 to 5350	Pass
			30	120	5260.020	5250 to 5350	Pass
			40	120	5260.020	5250 to 5350	Pass
			50	120	5260.020	5250 to 5350	Pass
		5300	20	102	5300.040	5250 to 5350	Pass
				120	5300.040	5250 to 5350	Pass
				138	5300.020	5250 to 5350	Pass
			-30	120	5300.040	5250 to 5350	Pass
			-20	120	5300.020	5250 to 5350	Pass
			-10	120	5300.040	5250 to 5350	Pass
			0	120	5300.040	5250 to 5350	Pass
			10	120	5300.040	5250 to 5350	Pass
			30	120	5300.040	5250 to 5350	Pass
			40	120	5300.020	5250 to 5350	Pass
			50	120	5300.040	5250 to 5350	Pass
		5320	20	102	5320.020	5250 to 5350	Pass
				120	5320.020	5250 to 5350	Pass
				138	5320.040	5250 to 5350	Pass
			-30	120	5320.040	5250 to 5350	Pass
			-20	120	5320.020	5250 to 5350	Pass
			-10	120	5320.040	5250 to 5350	Pass
			0	120	5320.040	5250 to 5350	Pass
			10	120	5320.040	5250 to 5350	Pass
			30	120	5320.040	5250 to 5350	Pass
			40	120	5320.020	5250 to 5350	Pass
			50	120	5320.020	5250 to 5350	Pass
		5500	20	102	5500.020	5470 to 5725	Pass
				120	5500.020	5470 to 5725	Pass
				138	5500.020	5470 to 5725	Pass
			-30	120	5500.040	5470 to 5725	Pass
			-20	120	5500.040	5470 to 5725	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 281 of 292

			-10	120	5500.020	5470 to 5725	Pass
			0	120	5500.040	5470 to 5725	Pass
			10	120	5500.020	5470 to 5725	Pass
			30	120	5500.020	5470 to 5725	Pass
			40	120	5500.020	5470 to 5725	Pass
			50	120	5500.040	5470 to 5725	Pass
		5580	20	102	5580.020	5470 to 5725	Pass
				120	5580.020	5470 to 5725	Pass
				138	5580.020	5470 to 5725	Pass
			-30	120	5580.040	5470 to 5725	Pass
			-20	120	5580.040	5470 to 5725	Pass
			-10	120	5580.020	5470 to 5725	Pass
			0	120	5580.020	5470 to 5725	Pass
			10	120	5580.020	5470 to 5725	Pass
			30	120	5580.020	5470 to 5725	Pass
			40	120	5580.020	5470 to 5725	Pass
			50	120	5580.040	5470 to 5725	Pass
		5700	20	102	5700.020	5470 to 5725	Pass
				120	5700.020	5470 to 5725	Pass
				138	5700.020	5470 to 5725	Pass
			-30	120	5700.020	5470 to 5725	Pass
			-20	120	5700.000	5470 to 5725	Pass
			-10	120	5700.020	5470 to 5725	Pass
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			40	120	5700.020	5470 to 5725	Pass
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		5745	20	102	5745.020	5725 to 5850	Pass
				120	5745.040	5725 to 5850	Pass
				138	5745.020	5725 to 5850	Pass
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			-20	120	5745.020	5725 to 5850	Pass
			-10	120	5745.040	5725 to 5850	Pass
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			40	120	5745.020	5725 to 5850	Pass
			50	120	5745.020	5725 to 5850	Pass
		5785	20	102	5785.020	5725 to 5850	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 282 of 292

				120	5785.020	5725 to 5850	Pass
				138	5785.040	5725 to 5850	Pass
			-30	120	5785.020	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
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			50	120	5785.020	5725 to 5850	Pass
		5825	20	102	5825.040	5725 to 5850	Pass
				120	5825.040	5725 to 5850	Pass
				138	5825.040	5725 to 5850	Pass
			-30	120	5825.020	5725 to 5850	Pass
			-20	120	5825.040	5725 to 5850	Pass
			-10	120	5825.040	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass
			10	120	5825.040	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5825.040	5725 to 5850	Pass
			50	120	5825.040	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	102	5180.020	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5180.020	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5180.040	5150 to 5250	Pass
			10	120	5180.020	5150 to 5250	Pass
			30	120	5180.040	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass
			50	120	5180.040	5150 to 5250	Pass
		5200	20	102	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.040	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
			-20	120	5200.040	5150 to 5250	Pass
			-10	120	5200.060	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 283 of 292

			30	120	5200.040	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
				138	5240.040	5150 to 5250	Pass
			-30	120	5240.020	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.040	5150 to 5250	Pass
			0	120	5240.040	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass
			30	120	5240.020	5150 to 5250	Pass
			40	120	5240.040	5150 to 5250	Pass
			50	120	5241.740	5150 to 5250	Pass
		5260	20	102	5260.040	5250 to 5350	Pass
				120	5260.040	5250 to 5350	Pass
				138	5260.020	5250 to 5350	Pass
			-30	120	5260.020	5250 to 5350	Pass
			-20	120	5260.020	5250 to 5350	Pass
			-10	120	5260.020	5250 to 5350	Pass
			0	120	5260.020	5250 to 5350	Pass
			10	120	5260.020	5250 to 5350	Pass
			30	120	5260.040	5250 to 5350	Pass
			40	120	5260.020	5250 to 5350	Pass
			50	120	5260.040	5250 to 5350	Pass
		5300	20	102	5300.020	5250 to 5350	Pass
				120	5300.020	5250 to 5350	Pass
				138	5300.020	5250 to 5350	Pass
			-30	120	5300.020	5250 to 5350	Pass
			-20	120	5300.020	5250 to 5350	Pass
			-10	120	5300.020	5250 to 5350	Pass
			0	120	5300.020	5250 to 5350	Pass
			10	120	5300.020	5250 to 5350	Pass
			30	120	5300.020	5250 to 5350	Pass
			40	120	5300.020	5250 to 5350	Pass
			50	120	5300.020	5250 to 5350	Pass
		5320	20	102	5320.020	5250 to 5350	Pass
				120	5320.020	5250 to 5350	Pass
				138	5320.020	5250 to 5350	Pass
			-30	120	5320.020	5250 to 5350	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 284 of 292

			-20	120	5320.040	5250 to 5350	Pass
			-10	120	5320.020	5250 to 5350	Pass
			0	120	5320.020	5250 to 5350	Pass
			10	120	5320.020	5250 to 5350	Pass
			30	120	5320.020	5250 to 5350	Pass
			40	120	5320.020	5250 to 5350	Pass
			50	120	5320.020	5250 to 5350	Pass
		5500	20	102	5500.020	5470 to 5725	Pass
				120	5500.020	5470 to 5725	Pass
				138	5500.040	5470 to 5725	Pass
			-30	120	5500.040	5470 to 5725	Pass
			-20	120	5500.020	5470 to 5725	Pass
			-10	120	5500.020	5470 to 5725	Pass
			0	120	5500.040	5470 to 5725	Pass
			10	120	5500.020	5470 to 5725	Pass
			30	120	5500.020	5470 to 5725	Pass
			40	120	5500.020	5470 to 5725	Pass
			50	120	5500.020	5470 to 5725	Pass
		5580	20	102	5580.020	5470 to 5725	Pass
				120	5580.020	5470 to 5725	Pass
				138	5580.020	5470 to 5725	Pass
			-30	120	5580.020	5470 to 5725	Pass
			-20	120	5580.020	5470 to 5725	Pass
			-10	120	5580.020	5470 to 5725	Pass
			0	120	5580.020	5470 to 5725	Pass
			10	120	5580.020	5470 to 5725	Pass
			30	120	5580.020	5470 to 5725	Pass
			40	120	5580.020	5470 to 5725	Pass
			50	120	5580.020	5470 to 5725	Pass
		5700	20	102	5700.020	5470 to 5725	Pass
				120	5700.020	5470 to 5725	Pass
				138	5700.040	5470 to 5725	Pass
			-30	120	5700.020	5470 to 5725	Pass
			-20	120	5700.020	5470 to 5725	Pass
			-10	120	5700.020	5470 to 5725	Pass
			0	120	5700.020	5470 to 5725	Pass
			10	120	5700.020	5470 to 5725	Pass
			30	120	5700.020	5470 to 5725	Pass
			40	120	5700.020	5470 to 5725	Pass
			50	120	5700.020	5470 to 5725	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 285 of 292

		5745	20	102	5745.020	5725 to 5850	Pass
				120	5745.020	5725 to 5850	Pass
				138	5745.020	5725 to 5850	Pass
			-30	120	5745.020	5725 to 5850	Pass
			-20	120	5745.020	5725 to 5850	Pass
			-10	120	5745.020	5725 to 5850	Pass
			0	120	5745.020	5725 to 5850	Pass
			10	120	5745.020	5725 to 5850	Pass
			30	120	5745.020	5725 to 5850	Pass
			40	120	5745.020	5725 to 5850	Pass
			50	120	5745.020	5725 to 5850	Pass
		5785	20	102	5785.020	5725 to 5850	Pass
				120	5785.020	5725 to 5850	Pass
				138	5785.020	5725 to 5850	Pass
			-30	120	5785.020	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
			-10	120	5785.020	5725 to 5850	Pass
			0	120	5785.020	5725 to 5850	Pass
			10	120	5785.020	5725 to 5850	Pass
			30	120	5785.020	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.020	5725 to 5850	Pass
		5825	20	102	5825.020	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
				138	5825.040	5725 to 5850	Pass
			-30	120	5825.020	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.020	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5825.020	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5825.020	5725 to 5850	Pass
			50	120	5825.020	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	102	5190.040	5150 to 5250	Pass
				120	5190.040	5150 to 5250	Pass
				138	5190.040	5150 to 5250	Pass
			-30	120	5190.040	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.040	5150 to 5250	Pass
			0	120	5190.040	5150 to 5250	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 286 of 292

			10	120	5190.040	5150 to 5250	Pass
			30	120	5190.040	5150 to 5250	Pass
			40	120	5190.040	5150 to 5250	Pass
			50	120	5190.040	5150 to 5250	Pass
		5230	20	102	5230.040	5150 to 5250	Pass
				120	5230.040	5150 to 5250	Pass
				138	5230.040	5150 to 5250	Pass
			-30	120	5230.040	5150 to 5250	Pass
			-20	120	5230.040	5150 to 5250	Pass
			-10	120	5230.040	5150 to 5250	Pass
			0	120	5230.040	5150 to 5250	Pass
			10	120	5230.040	5150 to 5250	Pass
			30	120	5230.040	5150 to 5250	Pass
			40	120	5230.040	5150 to 5250	Pass
			50	120	5230.040	5150 to 5250	Pass
					5270	20	102
120	5270.040	5250 to 5350					Pass
138	5270.040	5250 to 5350					Pass
-30	120	5270.040				5250 to 5350	Pass
-20	120	5270.040				5250 to 5350	Pass
-10	120	5270.040				5250 to 5350	Pass
0	120	5270.040				5250 to 5350	Pass
10	120	5270.040				5250 to 5350	Pass
30	120	5270.040				5250 to 5350	Pass
40	120	5270.040				5250 to 5350	Pass
50	120	5270.040				5250 to 5350	Pass
		5310				20	102
			120	5310.040	5250 to 5350		Pass
			138	5310.040	5250 to 5350		Pass
			-30	120	5310.040	5250 to 5350	Pass
			-20	120	5310.040	5250 to 5350	Pass
			-10	120	5310.040	5250 to 5350	Pass
			0	120	5310.040	5250 to 5350	Pass
			10	120	5310.040	5250 to 5350	Pass
			30	120	5310.040	5250 to 5350	Pass
			40	120	5310.040	5250 to 5350	Pass
			50	120	5310.040	5250 to 5350	Pass
					5510	20	102
120	5510.040	5470 to 5725					Pass
138	5510.080	5470 to 5725					Pass



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Report No.: SZCR231200413010

Page: 287 of 292

			-30	120	5510.080	5470 to 5725	Pass
			-20	120	5510.040	5470 to 5725	Pass
			-10	120	5510.080	5470 to 5725	Pass
			0	120	5510.040	5470 to 5725	Pass
			10	120	5510.080	5470 to 5725	Pass
			30	120	5510.040	5470 to 5725	Pass
			40	120	5510.040	5470 to 5725	Pass
			50	120	5510.040	5470 to 5725	Pass
		5550	20	102	5550.040	5470 to 5725	Pass
				120	5550.040	5470 to 5725	Pass
				138	5550.040	5470 to 5725	Pass
			-30	120	5550.080	5470 to 5725	Pass
			-20	120	5550.040	5470 to 5725	Pass
			-10	120	5550.040	5470 to 5725	Pass
			0	120	5550.040	5470 to 5725	Pass
			10	120	5550.040	5470 to 5725	Pass
			30	120	5550.040	5470 to 5725	Pass
			40	120	5550.040	5470 to 5725	Pass
			50	120	5550.040	5470 to 5725	Pass
		5670	20	102	5670.040	5470 to 5725	Pass
				120	5670.040	5470 to 5725	Pass
				138	5670.040	5470 to 5725	Pass
			-30	120	5670.040	5470 to 5725	Pass
			-20	120	5670.040	5470 to 5725	Pass
			-10	120	5670.040	5470 to 5725	Pass
			0	120	5670.040	5470 to 5725	Pass
			10	120	5670.040	5470 to 5725	Pass
			30	120	5670.040	5470 to 5725	Pass
			40	120	5670.040	5470 to 5725	Pass
			50	120	5670.040	5470 to 5725	Pass
		5755	20	102	5755.040	5725 to 5850	Pass
				120	5755.040	5725 to 5850	Pass
				138	5755.040	5725 to 5850	Pass
			-30	120	5755.040	5725 to 5850	Pass
			-20	120	5755.040	5725 to 5850	Pass
			-10	120	5755.040	5725 to 5850	Pass
			0	120	5755.040	5725 to 5850	Pass
			10	120	5755.040	5725 to 5850	Pass
			30	120	5755.040	5725 to 5850	Pass
			40	120	5755.040	5725 to 5850	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 288 of 292

			50	120	5755.040	5725 to 5850	Pass
				102	5795.040	5725 to 5850	Pass
			20	120	5795.040	5725 to 5850	Pass
				138	5795.040	5725 to 5850	Pass
			-30	120	5795.040	5725 to 5850	Pass
			-20	120	5795.040	5725 to 5850	Pass
			-10	120	5795.040	5725 to 5850	Pass
			0	120	5795.040	5725 to 5850	Pass
			10	120	5795.040	5725 to 5850	Pass
			30	120	5795.040	5725 to 5850	Pass
			40	120	5795.040	5725 to 5850	Pass
			50	120	5795.040	5725 to 5850	Pass

## 6.DFS

### Test Result:

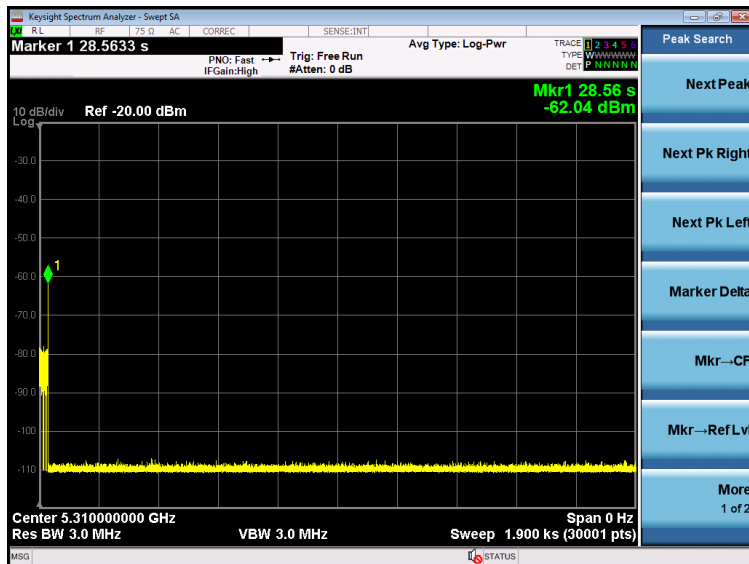
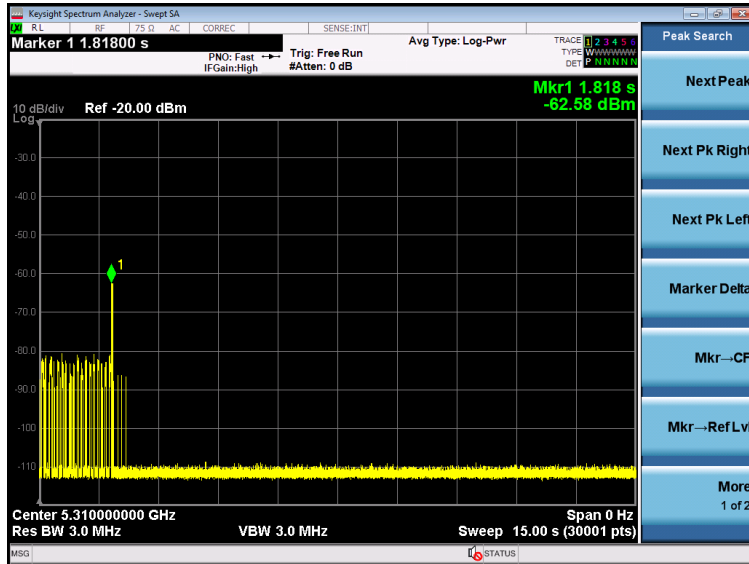
BW/Channel	Test Item	Result
80MHz/5290MHz	Channel Availability Check Time	N/A
	Minimum Off-Channel CAC Time	N/A
	Maximum Off-Channel CAC Time	N/A
	In-Service Monitoring	N/A
	Channel Move Time	Pass
	Channel Closing Transmission Time	Pass
	Non-Occupancy Period	Pass
	Uniform Spreading	N/A

The test plots was shown in the report below.

**Remark:** Channel loading of Timing plots is greater than 17%.

This is the master device used to test DFS FCC ID: Q87-WRT3200ACM

5310MHz

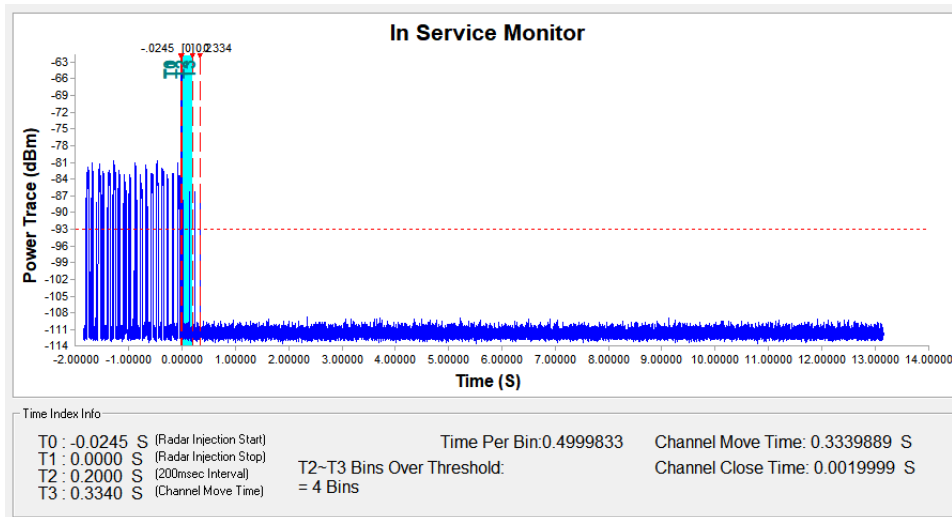


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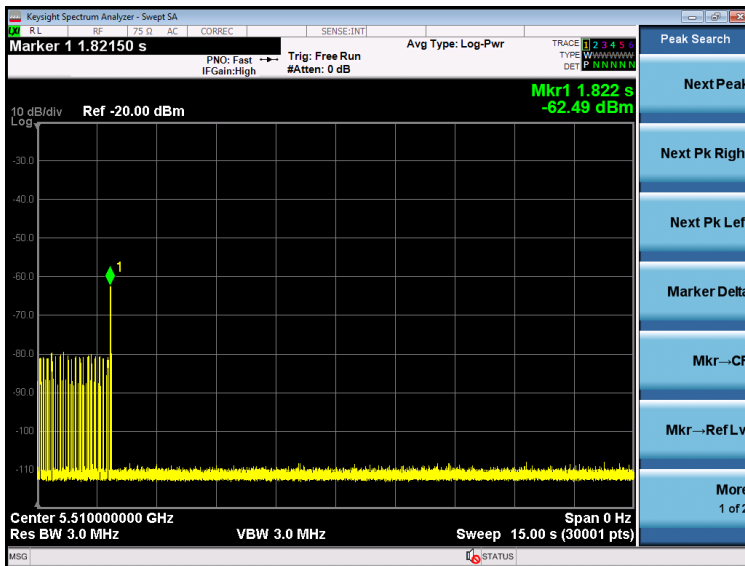
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413010

Page: 290 of 292



5510MHz



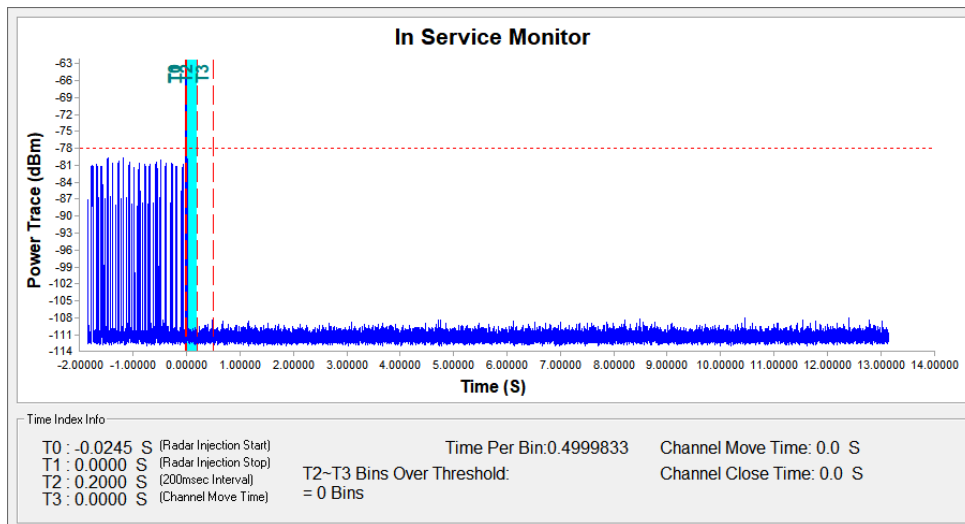
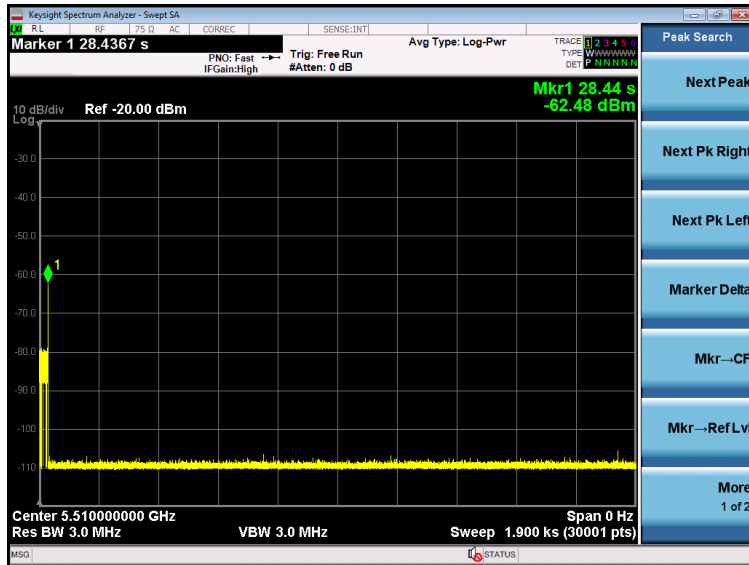


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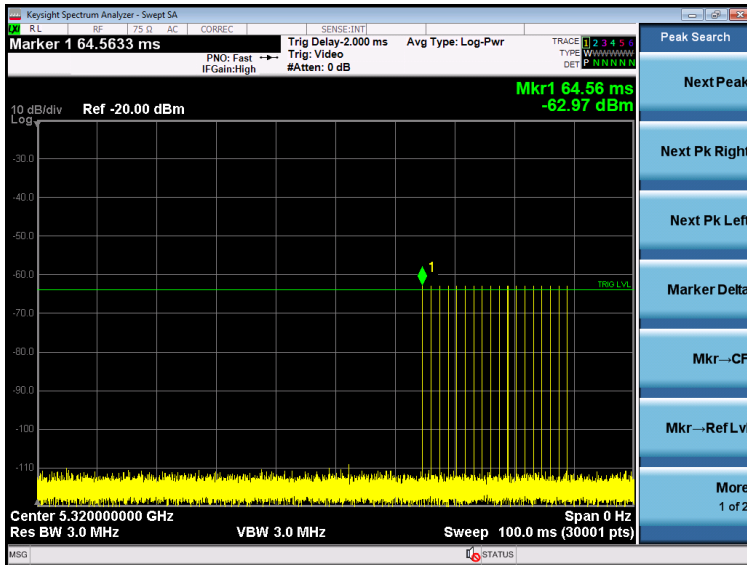
Report No.: SZCR231200413010

Page: 291 of 292





### Radar



- End of the Report -