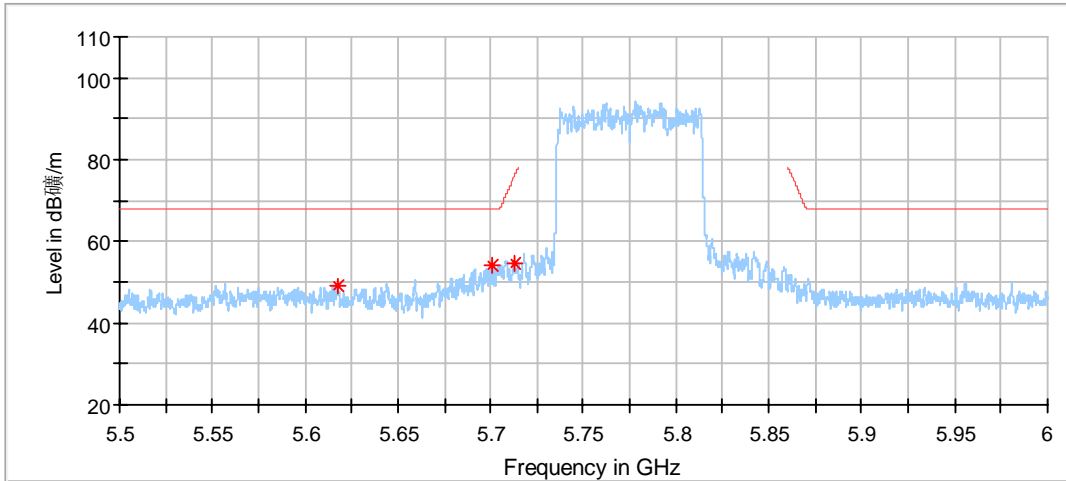
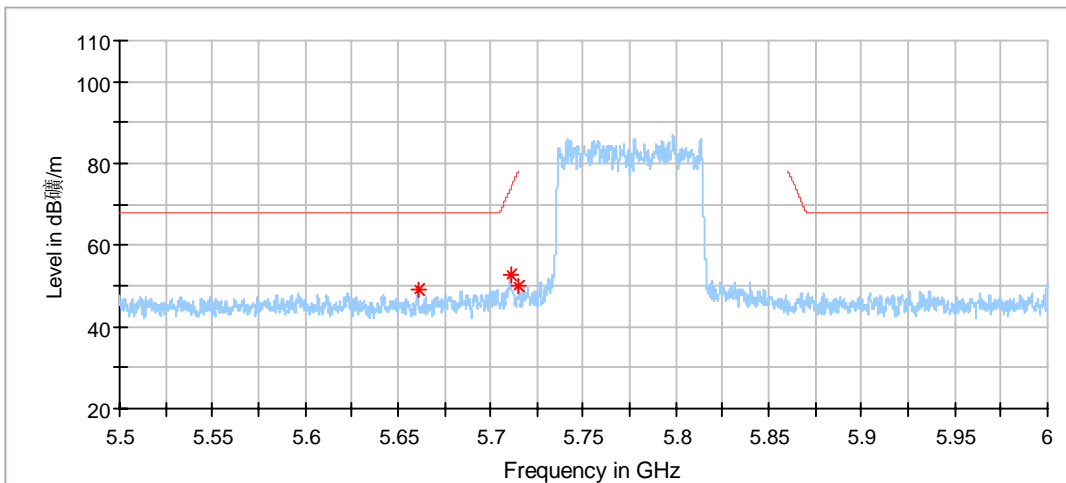


802.11AC Modulation 5775MHz Test Result



**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5617.541667	48.85	68.20	19.35	150.0	H	69.0	5.55
5701.208333	54.05	68.20	14.15	150.0	H	187.0	5.40
5712.583333	54.71	75.78	21.08	150.0	H	143.0	5.40



**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5661.041667	49.08	68.20	19.12	150.0	V	151.0	5.29
5710.458333	52.59	73.66	21.07	150.0	V	239.0	5.40
5715.208333	50.19	---	---	150.0	V	246.0	5.40

## 9.7 Frequencies Stability

### Test Method

1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10KHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

Technical description temperature is 0°C to 45°C

Limit: 20ppm

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)

Remark: NV is normal: 120V, HV is high Voltage: 138VAC, LV is Low Voltage: 102VAC, NT is normal Temperature: 25°C, HT is high temperature: 45°C, LT is Low temperature: 0°C



**Test result:**

Test Mode	Antenna	Channel	Voltage					Limit (ppm)	Verdict	
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)				
11A	Ant1	5180	NV	NT	13000	2.509653	20	PASS		
			LV	NT	13000	2.509653	20	PASS		
			HV	NT	14000	2.702703	20	PASS		
		5200	NV	NT	16000	3.076923	20	PASS		
			LV	NT	17000	3.269231	20	PASS		
			HV	NT	17000	3.269231	20	PASS		
		5240	NV	NT	17000	3.244275	20	PASS		
			LV	NT	18000	3.435115	20	PASS		
			HV	NT	18000	3.435115	20	PASS		
		5260	NV	NT	17000	3.231939	20	PASS		
			LV	NT	18000	3.422053	20	PASS		
			HV	NT	18000	3.422053	20	PASS		
		5280	NV	NT	18000	3.409091	20	PASS		
			LV	NT	19000	3.598485	20	PASS		
			HV	NT	20000	3.787879	20	PASS		
		5320	NV	NT	18000	3.383459	20	PASS		
			LV	NT	19000	3.571429	20	PASS		
			HV	NT	20000	3.759398	20	PASS		
		5500	NV	NT	18000	3.272727	20	PASS		
			LV	NT	20000	3.636364	20	PASS		
			HV	NT	20000	3.636364	20	PASS		
		5580	NV	NT	13000	2.329749	20	PASS		
			LV	NT	13000	2.329749	20	PASS		
			HV	NT	14000	2.508961	20	PASS		
		5700	NV	NT	17000	2.982456	20	PASS		
			LV	NT	18000	3.157895	20	PASS		
			HV	NT	18000	3.157895	20	PASS		
		5720	NV	NT	19000	3.321678	20	PASS		
			LV	NT	21000	3.671329	20	PASS		
			HV	NT	21000	3.671329	20	PASS		
		5745	NV	NT	21000	3.655352	20	PASS		
			LV	NT	23000	4.003481	20	PASS		
			HV	NT	23000	4.003481	20	PASS		
		5785	NV	NT	22000	3.802939	20	PASS		
			LV	NT	24000	4.14866	20	PASS		
			HV	NT	24000	4.14866	20	PASS		
		5825	NV	NT	23000	3.948498	20	PASS		
			LV	NT	25000	4.291845	20	PASS		
			HV	NT	25000	4.291845	20	PASS		
		11AC40SISO	Ant1	5190	NV	NT	22000	4.238921	20	PASS
					LV	NT	22000	4.238921	20	PASS
					HV	NT	21000	4.046243	20	PASS
5230	NV			NT	19000	3.632887	20	PASS		
	LV			NT	20000	3.824092	20	PASS		
	HV			NT	20000	3.824092	20	PASS		
5270	NV			NT	19000	3.605313	20	PASS		
	LV			NT	21000	3.98482	20	PASS		
	HV			NT	21000	3.98482	20	PASS		
5310	NV			NT	20000	3.766478	20	PASS		
	LV			NT	21000	3.954802	20	PASS		
	HV			NT	21000	3.954802	20	PASS		
5510	NV			NT	21000	3.811252	20	PASS		
	LV			NT	22000	3.99274	20	PASS		
	HV			NT	22000	3.99274	20	PASS		
5550	NV			NT	21000	3.783784	20	PASS		
	LV			NT	23000	4.144144	20	PASS		
	HV			NT	23000	4.144144	20	PASS		
5670	NV			NT	22000	3.880071	20	PASS		



		5710	LV	NT	24000	4.232804	20	PASS		
			HV	NT	24000	4.232804	20	PASS		
			NV	NT	22000	3.85289	20	PASS		
			LV	NT	24000	4.203152	20	PASS		
			HV	NT	24000	4.203152	20	PASS		
			NV	NT	22000	3.822763	20	PASS		
		5755	LV	NT	24000	4.170287	20	PASS		
			HV	NT	25000	4.344049	20	PASS		
			NV	NT	24000	4.141501	20	PASS		
		5795	LV	NT	25000	4.314064	20	PASS		
			HV	NT	26000	4.486626	20	PASS		
			NV	NT	20000	3.838772	20	PASS		
		11AC80SISO	Ant1	5210	LV	NT	20000	3.838772	20	PASS
					HV	NT	20000	3.838772	20	PASS
					NV	NT	17000	3.213611	20	PASS
5290	LV			NT	20000	3.780718	20	PASS		
	HV			NT	20000	3.780718	20	PASS		
	NV			NT	21000	3.797468	20	PASS		
5530	LV			NT	22000	3.9783	20	PASS		
	HV			NT	23000	4.159132	20	PASS		
5690	NV			NT	23000	4.042179	20	PASS		
	LV			NT	25000	4.393673	20	PASS		
	HV			NT	25000	4.393673	20	PASS		
5775	NV			NT	23000	3.982684	20	PASS		
	LV			NT	23000	3.982684	20	PASS		
					HV	NT	22000	3.809524	20	PASS

Temperature								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A20SISO 11AC40SISO 11AC80SISO	Ant1	5180	NV	0	16000	3.088803	20	PASS
			NV	10	15000	2.895753	20	PASS
			NV	20	16000	3.088803	20	PASS
			NV	30	16000	3.088803	20	PASS
			NV	40	16000	3.088803	20	PASS
			NV	50	16000	3.088803	20	PASS
		5200	NV	0	18000	3.461538	20	PASS
			NV	10	18000	3.461538	20	PASS
			NV	20	18000	3.461538	20	PASS
			NV	30	18000	3.461538	20	PASS
			NV	40	18000	3.461538	20	PASS
			NV	50	18000	3.461538	20	PASS
		5240	NV	0	18000	3.435115	20	PASS
			NV	10	18000	3.435115	20	PASS
			NV	20	18000	3.435115	20	PASS
			NV	30	18000	3.435115	20	PASS
			NV	40	17000	3.244275	20	PASS
			NV	50	18000	3.435115	20	PASS
		5260	NV	0	19000	3.612167	20	PASS
			NV	10	19000	3.612167	20	PASS
			NV	20	19000	3.612167	20	PASS
			NV	30	19000	3.612167	20	PASS
			NV	40	19000	3.612167	20	PASS
			NV	50	19000	3.612167	20	PASS
		5280	NV	0	20000	3.787879	20	PASS
			NV	10	20000	3.787879	20	PASS
			NV	20	20000	3.787879	20	PASS
			NV	30	20000	3.787879	20	PASS
			NV	40	20000	3.787879	20	PASS
			NV	50	20000	3.787879	20	PASS
5320	NV	0	20000	3.759398	20	PASS		
	NV	10	20000	3.759398	20	PASS		
	NV	20	20000	3.759398	20	PASS		



			NV	30	20000	3.759398	20	PASS
			NV	40	19000	3.571429	20	PASS
			NV	50	20000	3.759398	20	PASS
		5500	NV	0	20000	3.636364	20	PASS
			NV	10	20000	3.636364	20	PASS
			NV	20	20000	3.636364	20	PASS
			NV	30	20000	3.636364	20	PASS
			NV	40	20000	3.636364	20	PASS
			NV	50	20000	3.636364	20	PASS
		5580	NV	0	15000	2.688172	20	PASS
			NV	10	16000	2.867384	20	PASS
			NV	20	16000	2.867384	20	PASS
			NV	30	16000	2.867384	20	PASS
			NV	40	17000	3.046595	20	PASS
			NV	50	17000	3.046595	20	PASS
		5700	NV	0	19000	3.333333	20	PASS
			NV	10	20000	3.508772	20	PASS
			NV	20	20000	3.508772	20	PASS
			NV	30	20000	3.508772	20	PASS
			NV	40	20000	3.508772	20	PASS
			NV	50	21000	3.684211	20	PASS
		5720	NV	0	22000	3.846154	20	PASS
			NV	10	22000	3.846154	20	PASS
			NV	20	23000	4.020979	20	PASS
			NV	30	22000	3.846154	20	PASS
			NV	40	23000	4.020979	20	PASS
			NV	50	23000	4.020979	20	PASS
		5745	NV	0	24000	4.177546	20	PASS
			NV	10	24000	4.177546	20	PASS
			NV	20	24000	4.177546	20	PASS
			NV	30	24000	4.177546	20	PASS
			NV	40	24000	4.177546	20	PASS
			NV	50	24000	4.177546	20	PASS
		5785	NV	0	24000	4.14866	20	PASS
			NV	10	25000	4.321521	20	PASS
			NV	20	25000	4.321521	20	PASS
			NV	30	25000	4.321521	20	PASS
			NV	40	25000	4.321521	20	PASS
			NV	50	25000	4.321521	20	PASS
		5825	NV	0	26000	4.463519	20	PASS
			NV	10	26000	4.463519	20	PASS
			NV	20	26000	4.463519	20	PASS
			NV	30	27000	4.635193	20	PASS
			NV	40	26000	4.463519	20	PASS
			NV	50	26000	4.463519	20	PASS
		5190	NV	0	20000	3.853565	20	PASS
			NV	10	20000	3.853565	20	PASS
			NV	20	20000	3.853565	20	PASS
			NV	30	21000	4.046243	20	PASS
			NV	40	20000	3.853565	20	PASS
			NV	50	20000	3.853565	20	PASS
		5230	NV	0	20000	3.824092	20	PASS
			NV	10	20000	3.824092	20	PASS
			NV	20	21000	4.015296	20	PASS
			NV	30	20000	3.824092	20	PASS
			NV	40	21000	4.015296	20	PASS
			NV	50	21000	4.015296	20	PASS
		5270	NV	0	21000	3.98482	20	PASS
			NV	10	21000	3.98482	20	PASS
			NV	20	21000	3.98482	20	PASS
			NV	30	21000	3.98482	20	PASS
			NV	40	22000	4.174573	20	PASS
			NV	50	21000	3.98482	20	PASS
		5310	NV	0	21000	3.954802	20	PASS



			NV	10	21000	3.954802	20	PASS
			NV	20	21000	3.954802	20	PASS
			NV	30	21000	3.954802	20	PASS
			NV	40	21000	3.954802	20	PASS
			NV	50	22000	4.143126	20	PASS
		5510	NV	0	23000	4.174229	20	PASS
			NV	10	23000	4.174229	20	PASS
			NV	20	23000	4.174229	20	PASS
			NV	30	22000	3.99274	20	PASS
			NV	40	22000	3.99274	20	PASS
			NV	50	22000	3.99274	20	PASS
		5550	NV	0	23000	4.144144	20	PASS
			NV	10	24000	4.324324	20	PASS
			NV	20	24000	4.324324	20	PASS
			NV	30	23000	4.144144	20	PASS
			NV	40	24000	4.324324	20	PASS
			NV	50	24000	4.324324	20	PASS
		5670	NV	0	24000	4.232804	20	PASS
			NV	10	25000	4.409171	20	PASS
			NV	20	25000	4.409171	20	PASS
			NV	30	24000	4.232804	20	PASS
			NV	40	24000	4.232804	20	PASS
			NV	50	24000	4.232804	20	PASS
		5710	NV	0	24000	4.203152	20	PASS
			NV	10	24000	4.203152	20	PASS
			NV	20	24000	4.203152	20	PASS
			NV	30	24000	4.203152	20	PASS
			NV	40	24000	4.203152	20	PASS
			NV	50	24000	4.203152	20	PASS
		5755	NV	0	26000	4.517811	20	PASS
			NV	10	26000	4.517811	20	PASS
			NV	20	26000	4.517811	20	PASS
			NV	30	25000	4.344049	20	PASS
			NV	40	25000	4.344049	20	PASS
			NV	50	25000	4.344049	20	PASS
		5795	NV	0	26000	4.486626	20	PASS
			NV	10	26000	4.486626	20	PASS
			NV	20	26000	4.486626	20	PASS
			NV	30	26000	4.486626	20	PASS
			NV	40	26000	4.486626	20	PASS
			NV	50	26000	4.486626	20	PASS
		5210	NV	0	18000	3.454894	20	PASS
			NV	10	18000	3.454894	20	PASS
			NV	20	18000	3.454894	20	PASS
			NV	30	18000	3.454894	20	PASS
			NV	40	18000	3.454894	20	PASS
			NV	50	18000	3.454894	20	PASS
		5290	NV	0	20000	3.780718	20	PASS
			NV	10	21000	3.969754	20	PASS
			NV	20	21000	3.969754	20	PASS
			NV	30	21000	3.969754	20	PASS
			NV	40	21000	3.969754	20	PASS
			NV	50	21000	3.969754	20	PASS
		5530	NV	0	23000	4.159132	20	PASS
			NV	10	23000	4.159132	20	PASS
			NV	20	24000	4.339964	20	PASS
			NV	30	24000	4.339964	20	PASS
			NV	40	24000	4.339964	20	PASS
			NV	50	24000	4.339964	20	PASS
		5690	NV	0	26000	4.56942	20	PASS
			NV	10	27000	4.745167	20	PASS
			NV	20	27000	4.745167	20	PASS
			NV	30	26000	4.56942	20	PASS
			NV	40	27000	4.745167	20	PASS



			NV	50	27000	4.745167	20	PASS
		5775	NV	0	21000	3.636364	20	PASS
			NV	10	20000	3.463203	20	PASS
			NV	20	20000	3.463203	20	PASS
			NV	30	20000	3.463203	20	PASS
			NV	40	20000	3.463203	20	PASS
			NV	50	20000	3.463203	20	PASS

## 9.8 Dynamic Frequency Selection (DFS)

### General Test Condition

Parameters of EUT	
Frequency	5250 – 5350 MHz & 5470 – 5725 MHz
Operational Mode	Slave
Modulation:	OFDM
Channel Bandwidth:	20 MHz , 40 MHz, 80 MHz

Note: This device was functioned as a Slave device during the DFS

### Test requirement

The manufacturer shall whether the EUT is capable of operating as a master and a client. If the EUT is capable of operating in more than one operating mode then each operating mode shall be tested separately.

#### DFS Applicability

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

#### DFS Applicability During Normal Operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Yes	Not required
Uniform Spreading	Yes	Yes	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes



## Test Limited

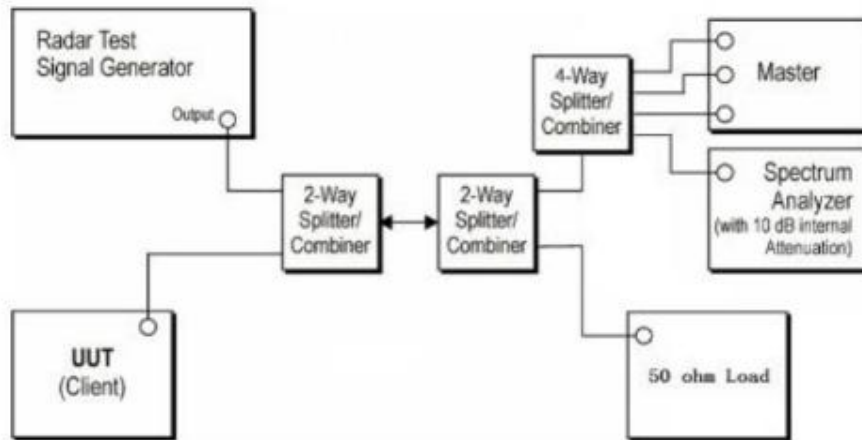
According to KDB 905462 D02 Table 4 DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

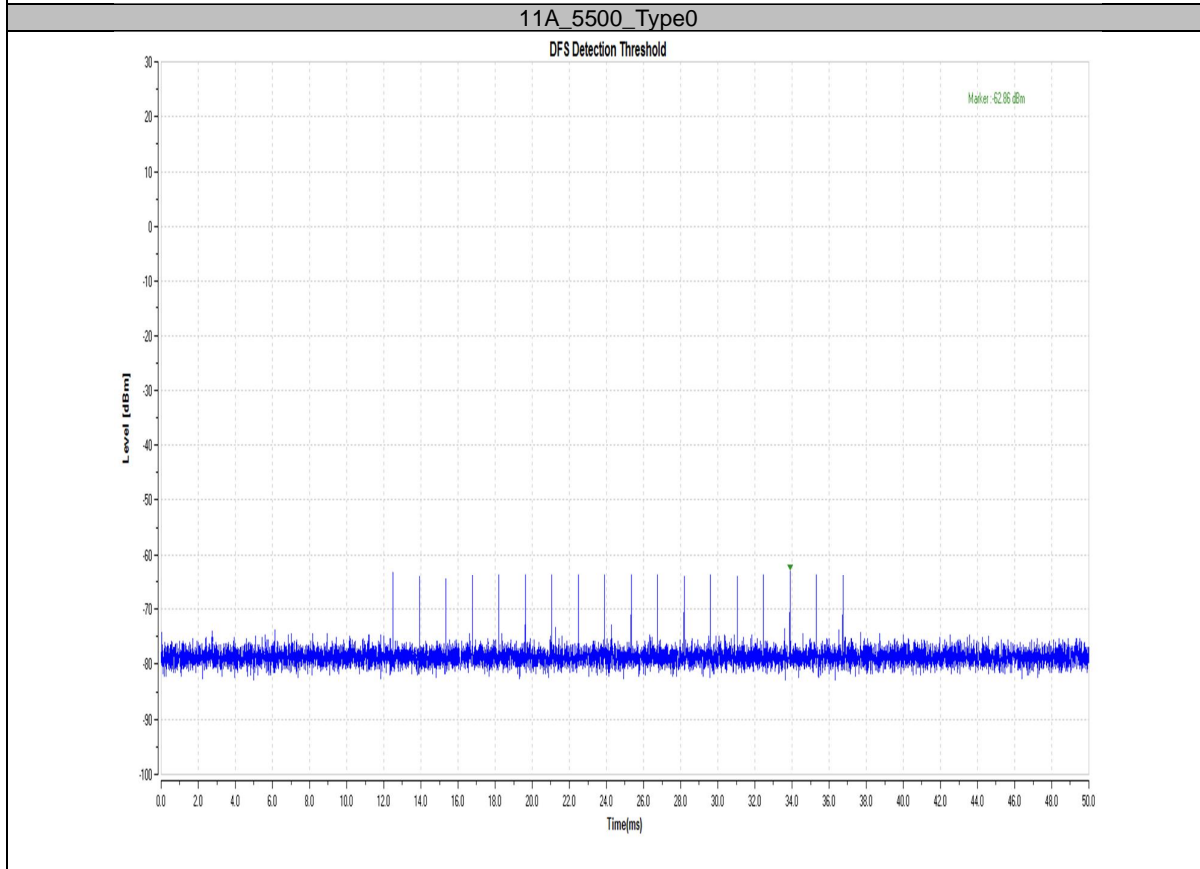
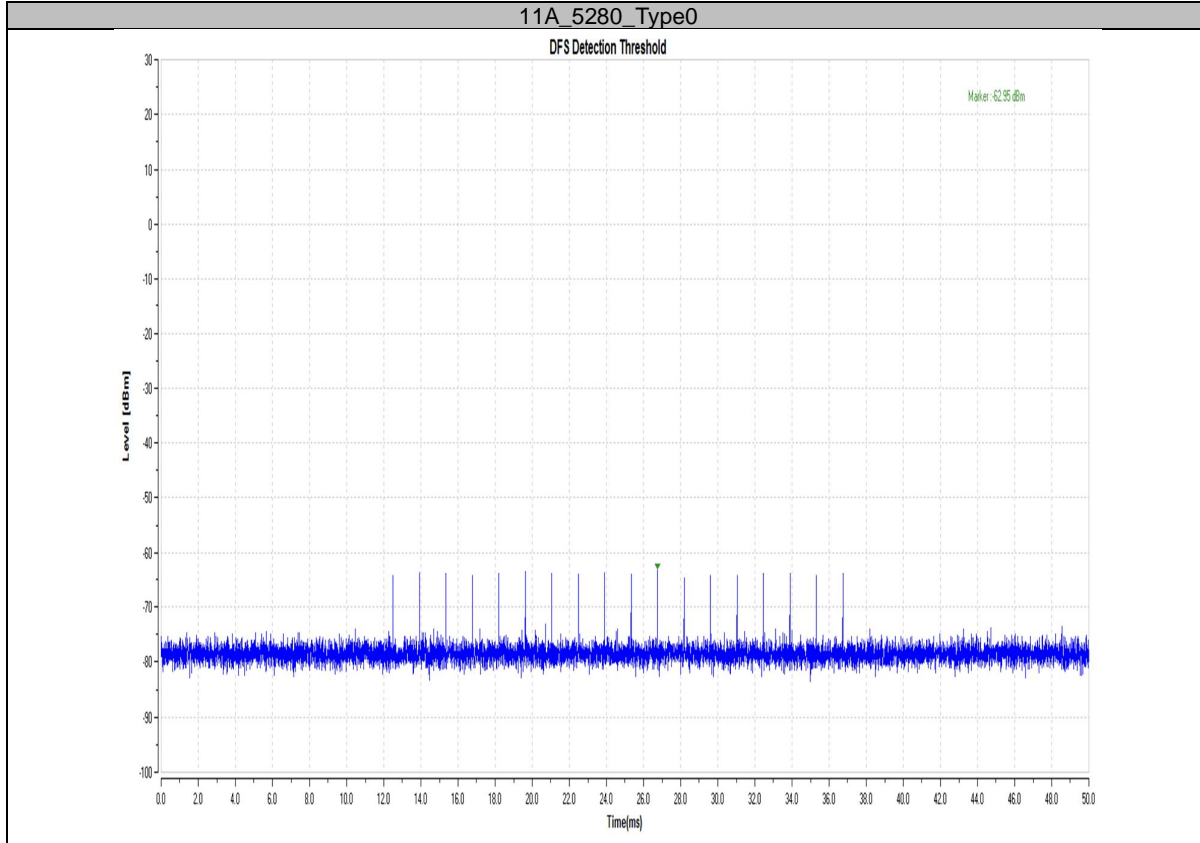
## Calibration of Radar Waveform

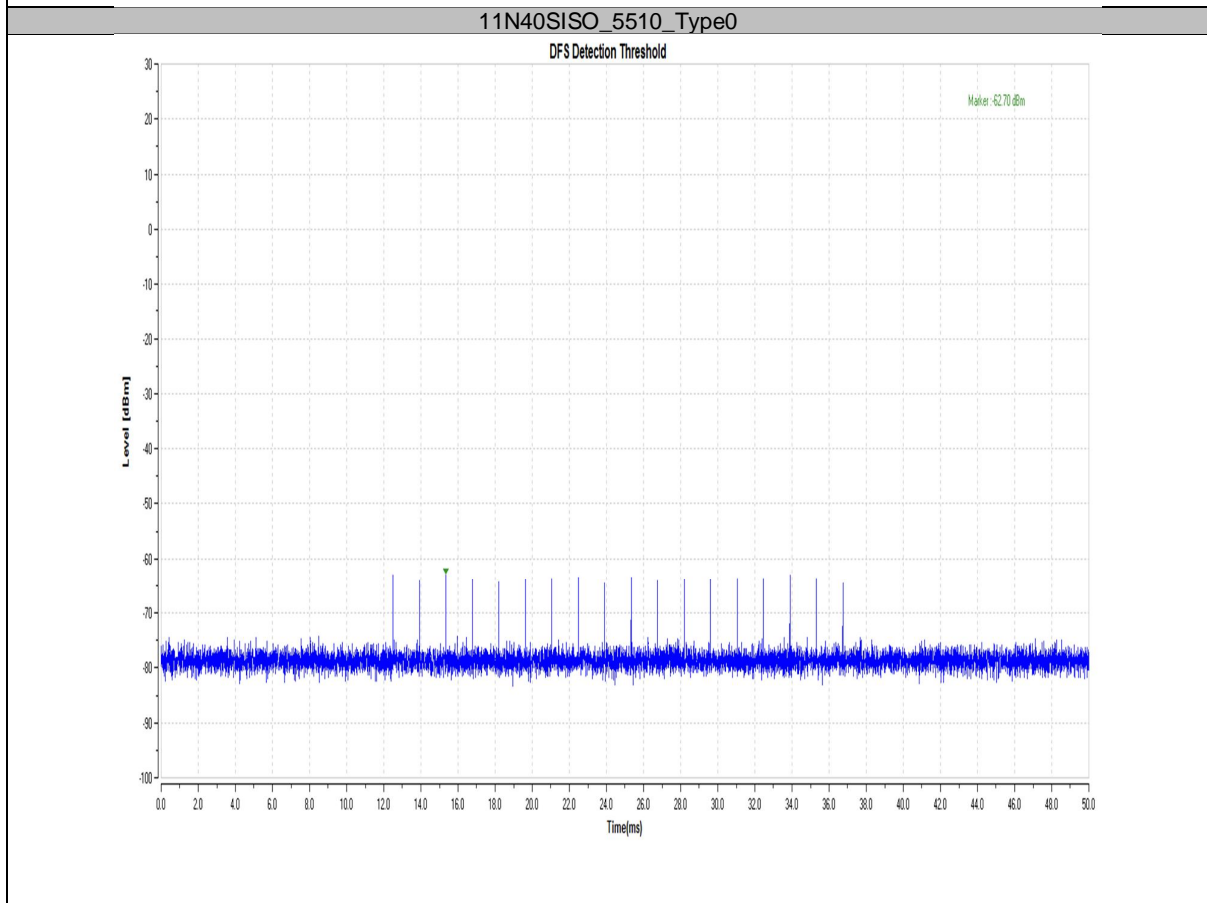
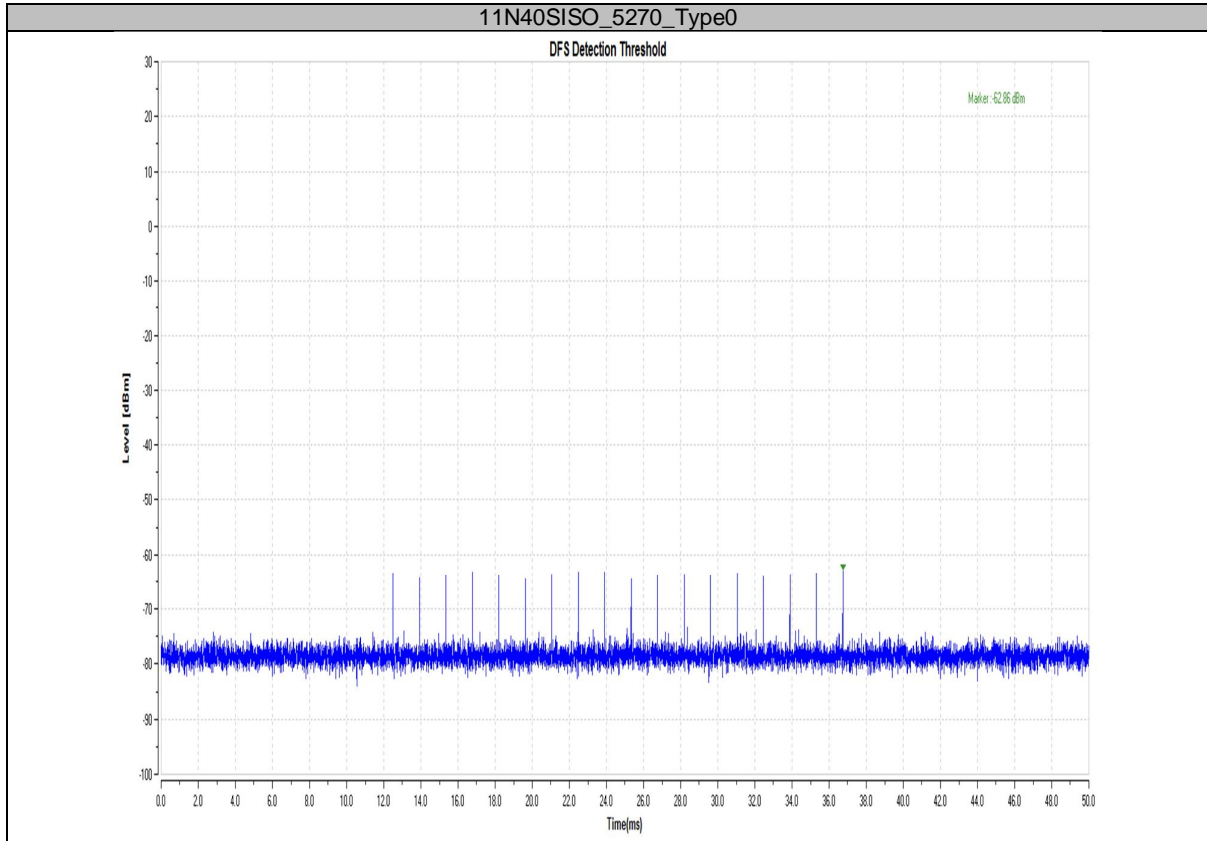
- (1) A 50ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master.
- (2) The interference Radar Detection Threshold Level is  $-62\text{dBm}+3.7\text{dB}+1.5\text{dB}=-55.8\text{dBm}$  that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz. The spectrum analyzer had offset -1.5dB to compensate RF cable loss 1.5dB.
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $-62\text{dBm}+3.7\text{dB}+1.5\text{dB}=-55.8\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar waveform.

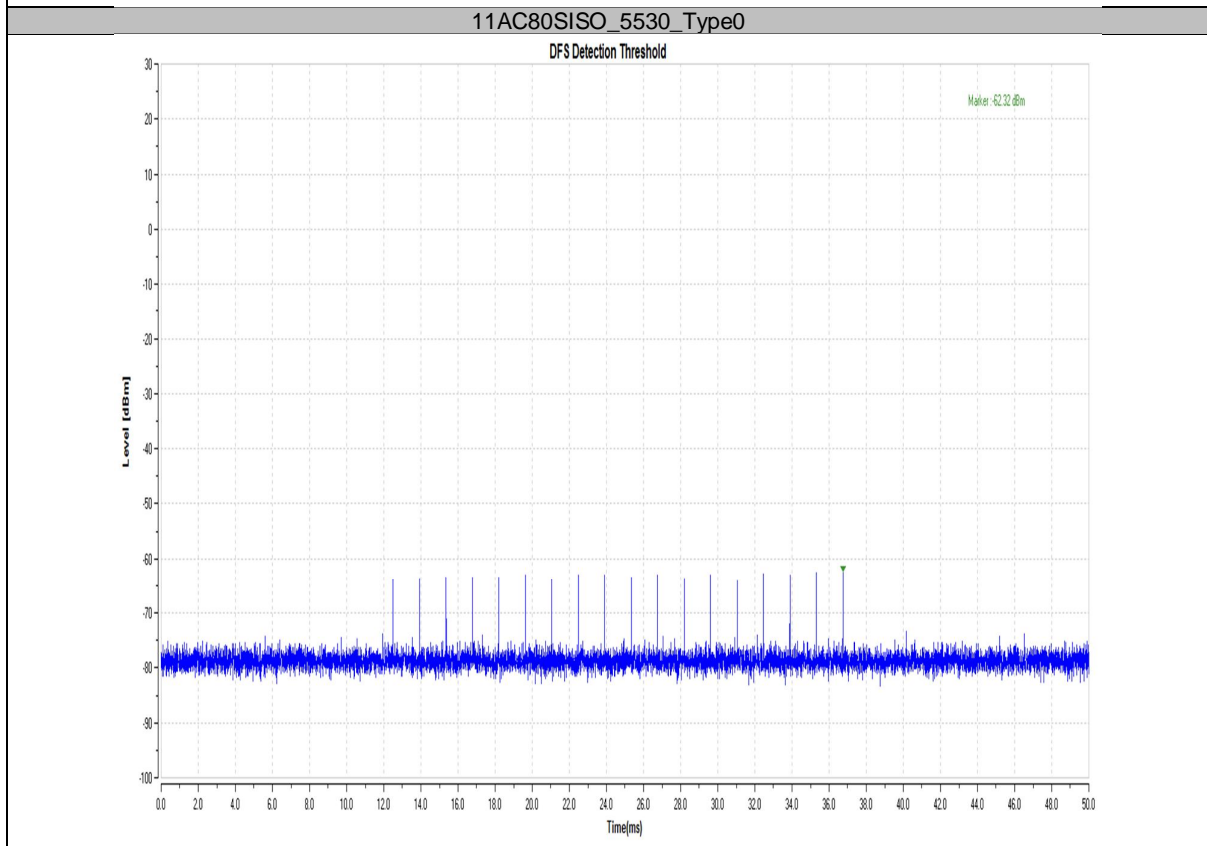
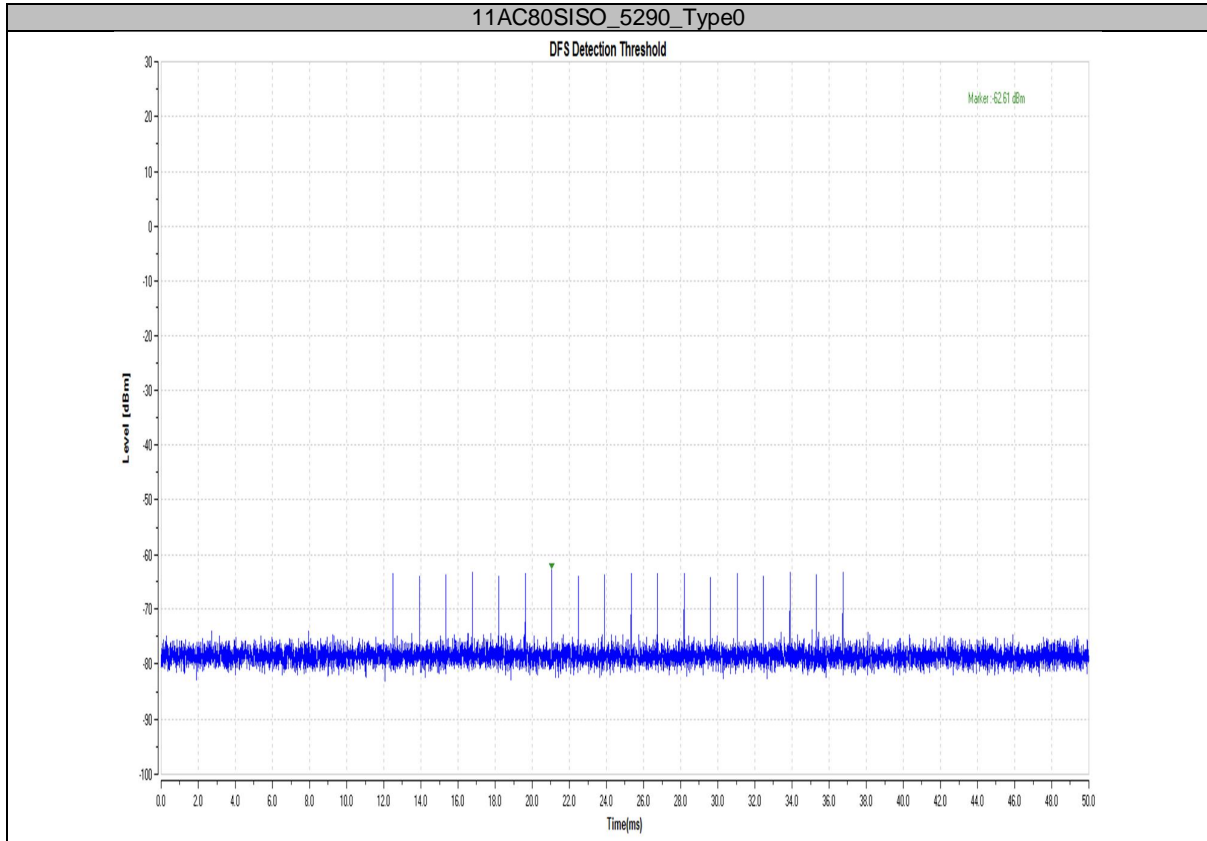
Conducted Calibration Setup:



Radar Waveform Calibration result:







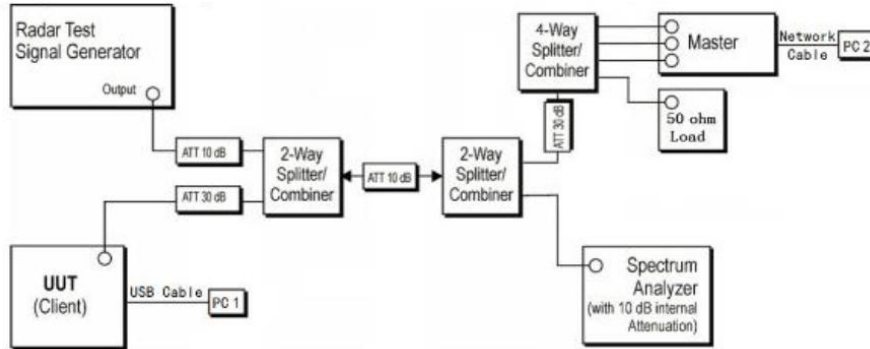
## Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period.

Block Diagram of test setup test procedure.

- (1) The Radar Pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -55.8dBm at the antenna of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using test software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a Level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection threshold +1dB.
- (6) Observer the transmissions of the EUT at the end of the radar Burst on the Operating channel. Measure and record the transmissions from the UUT during The observation time (channel move time). One 15 seconds plot is reported for the short pulse radar type 0. The plot for the short pulse radar burst. The channel move time will be calculated based on the zoom in 600ms plot of the short pulse radar type.
- (7) Measurement of the aggregate duration of the channel closed transmission time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  
 $Dwell (3.0) = S(12000ms) / B(4000)$ ; where dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of channel closing transmission time is calculated by:  
 $C(ms) = N \times Dwell (0.3ms)$ ; where C is the closing time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and dwell is the dwell time per bin.
- (8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.



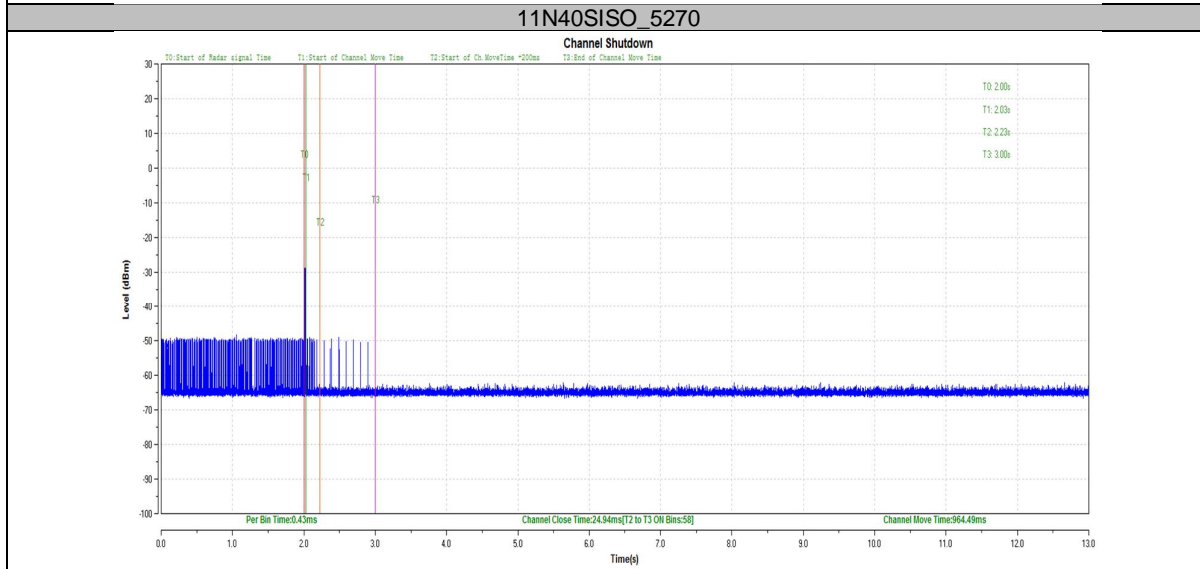
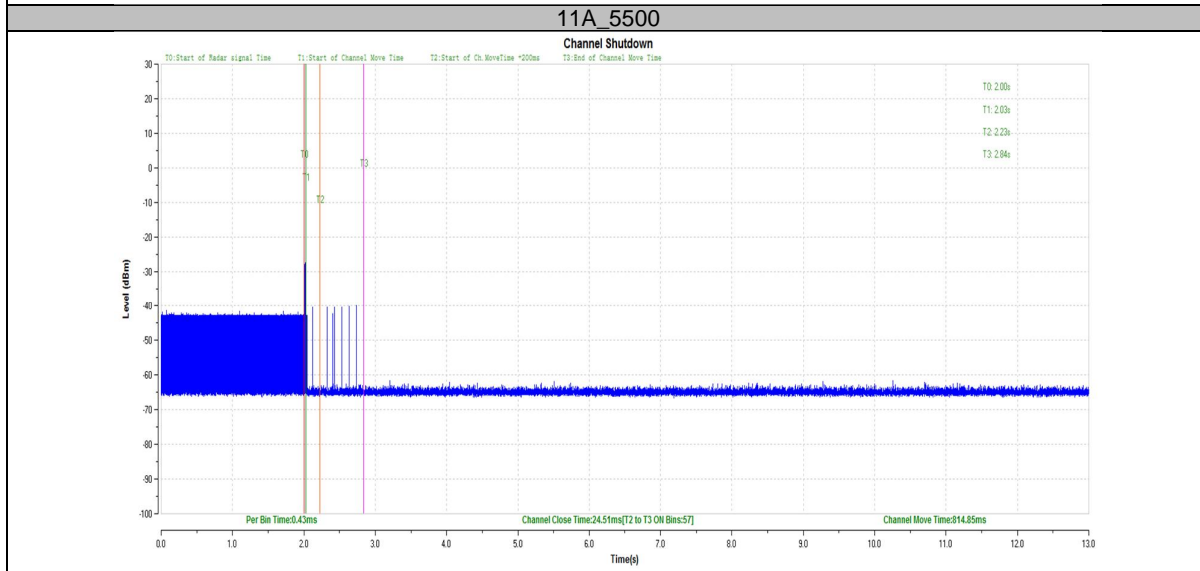
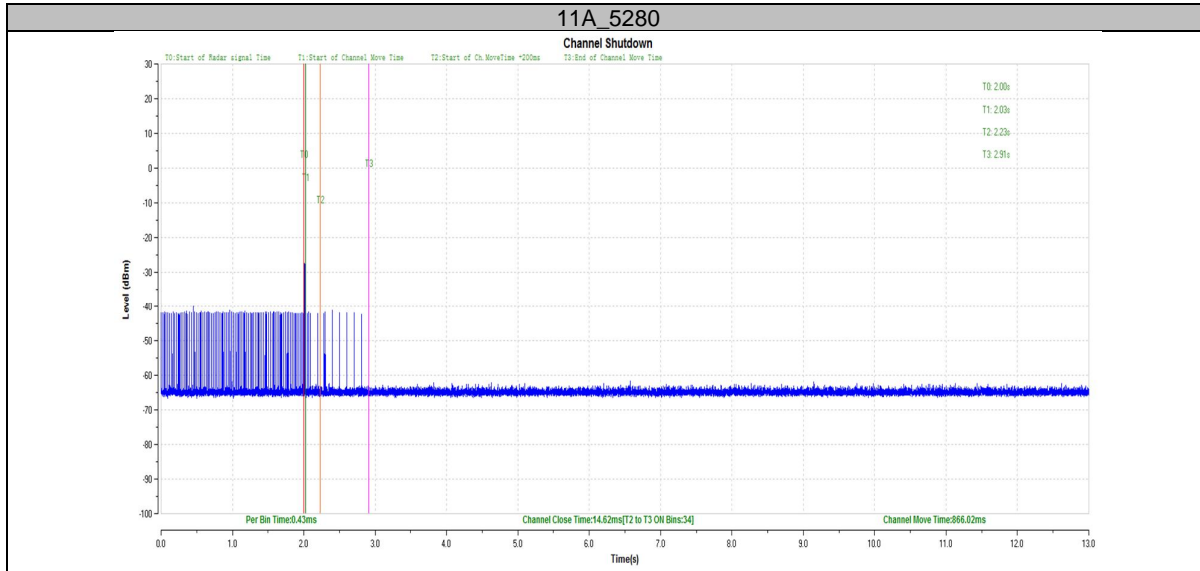
Test Setup:  
Setup for client with injection at the master.



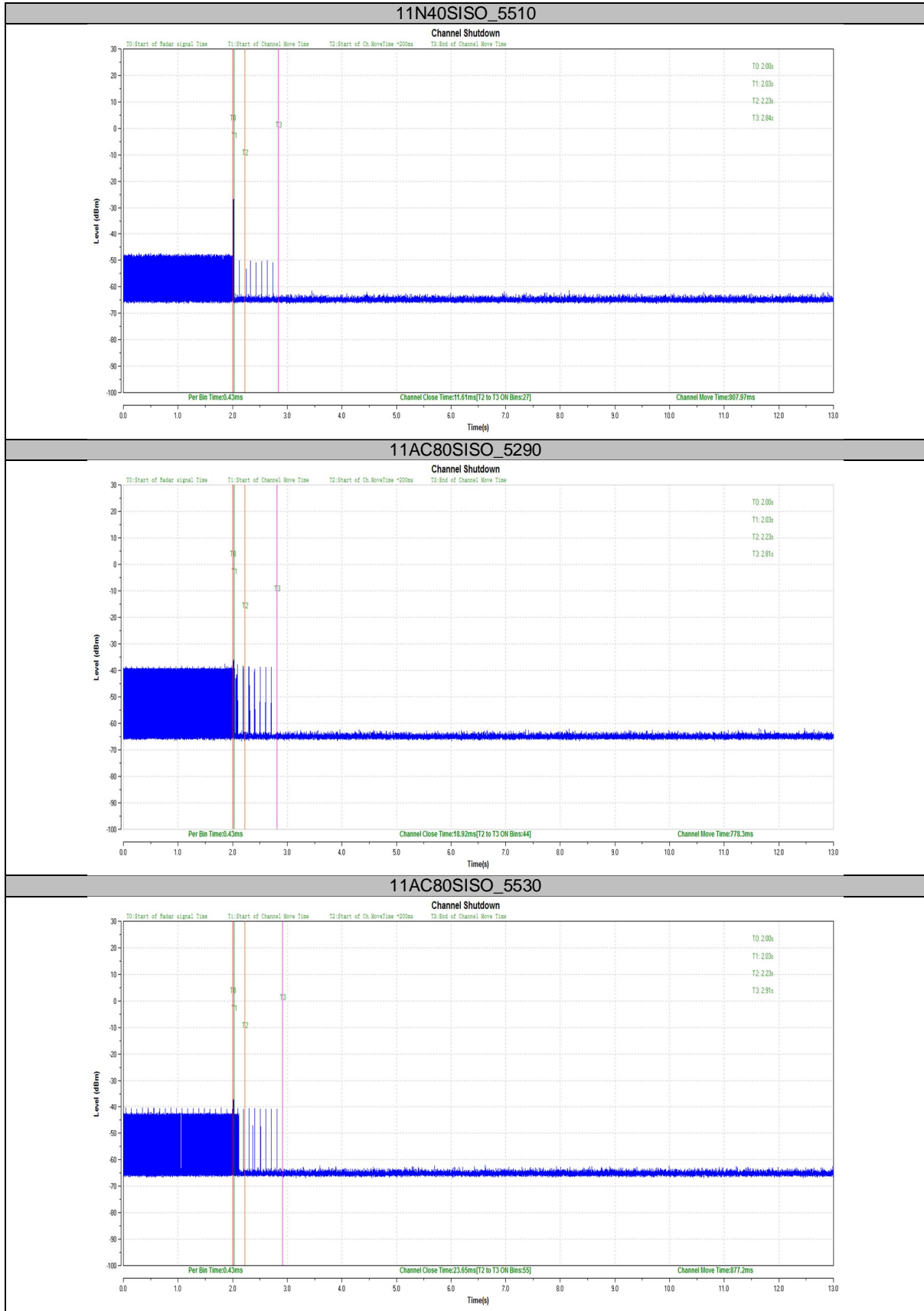
**Test Result**

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	No Applicable	N/A
15.407	Channel Availability Check time	No Applicable	N/A
15.407	Channel Move time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non-Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	No Applicable	N/A
15.407	U-NII Detection Bandwidth	No Applicable	N/A

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11A	5280	14.62	260	866.02	10000	PASS
	5500	24.51	260	814.85	10000	PASS
11N 40SISO	5270	23.65	260	963.63	10000	PASS
	5510	11.61	260	807.97	10000	PASS
11AC80SISO	5290	17.63	260	772.71	10000	PASS
	5530	23.65	260	877.2	10000	PASS







## 10 Test Equipment List

### Conducted Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2023-5-27
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2023-5-27
ISN	Rohde & Schwarz	ENY81	68-4-87-14-003	100177	1	2023-5-27
ISN	Rohde & Schwarz	ENY81-CA6	68-4-87-14-004	101664	1	2023-5-27
High Voltage Probe	Schwarzbeck	TK9420(VT9420)	68-4-27-14-001	9420-584	1	2023-5-27
RF Current Probe	Rohde & Schwarz	EZ-17	68-4-27-14-002	100816	1	2023-5-31
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2023-5-27
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	3	2022-11-07

### Radiated Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2023-5-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2023-1-17
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2023-5-9
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2023-5-28
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2023-5-28
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2022-7-12
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2023-7-27
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2023-5-27
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

### RF conducted test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
Signal Generator	Rohde & Schwarz	SMB100A	68-4-48-14-001	108272	1	2023-5-27
RF Switch Module	Rohde & Schwarz	OSP120/OS P-B157	68-4-93-14-003	101226/100851	1	2023-5-27
Power Splitter	Weinschel	1580	68-4-85-14-001	SC319	1	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-48-14-003-A10	Version 10.60.10	N/A	N/A
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A



## 11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.70dB
Uncertainty for Conducted Emission 150kHz-30MHz	3.33dB
Uncertainty for Radiated Spurious Emission 25MHz- 1000MHz	Horizontal: 4.59dB; Vertical: 4.75dB;
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	Horizontal: 5.08dB; Vertical: 5.09dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.51dB; Vertical: 4.50 dB;
Uncertainty for Conducted RF test	RF Power Conducted: 1.30dB Frequency test involved: $0.6 \times 10^{-8}$ or 1%

---THE END OF REPORT---