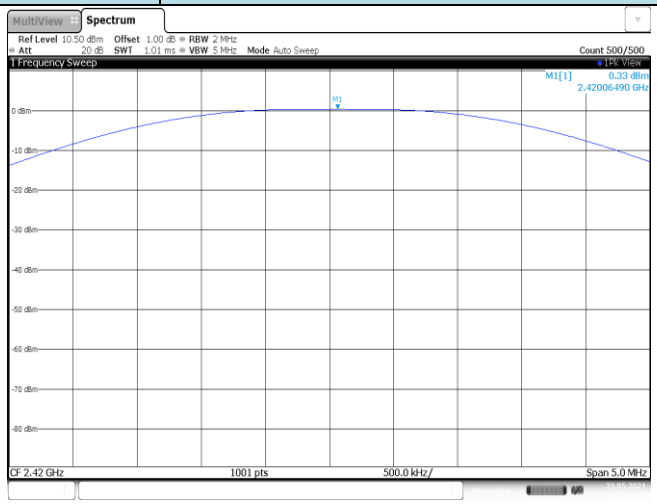
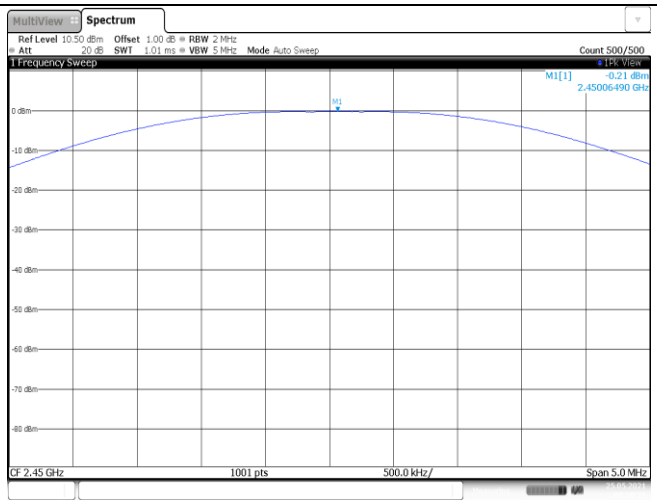
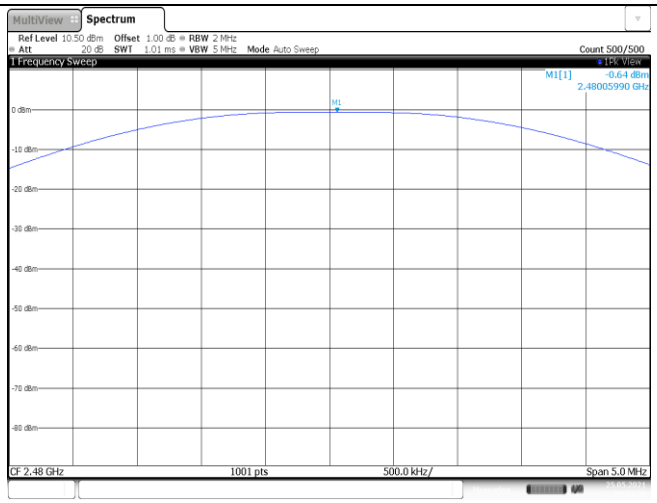
APPENDIX REPORT

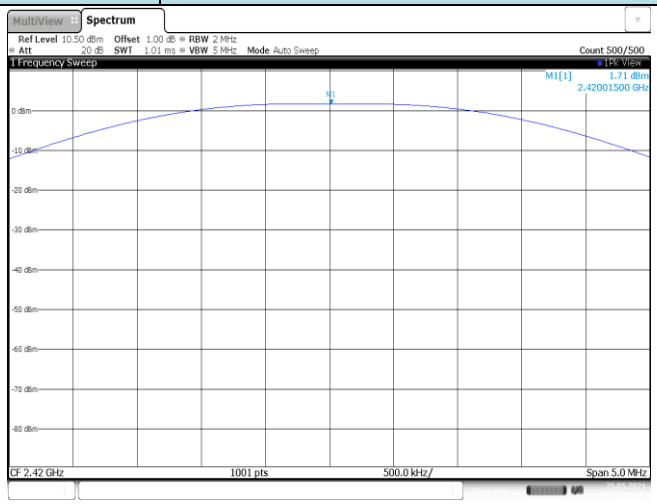
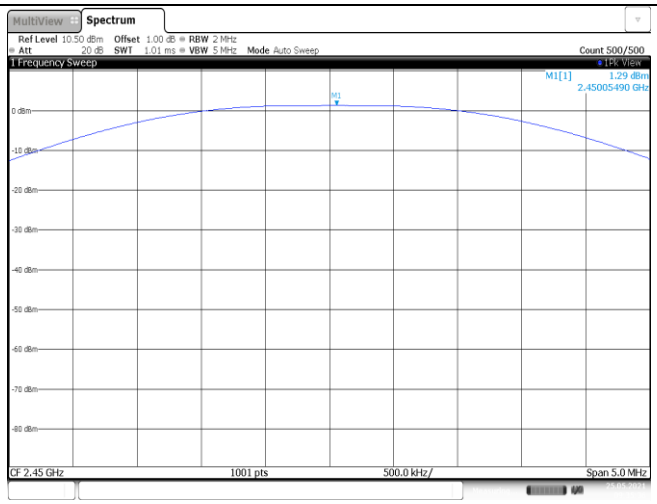
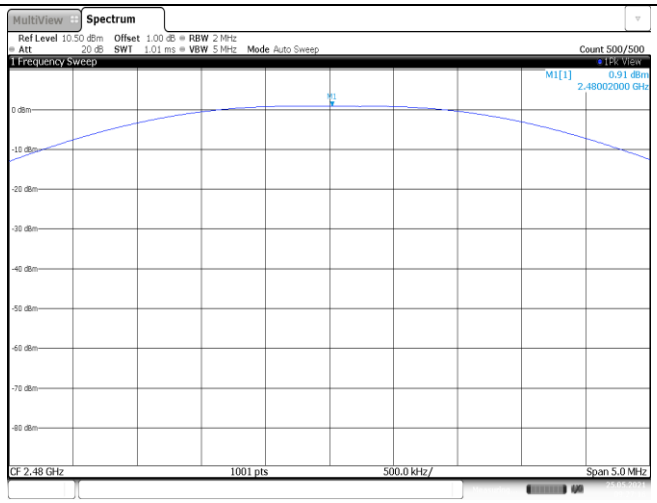
Project No.	SHT2103084409EW	Radio Specification	GFSK
Model No.	SWAN-K1		
Start test date	2021-05-25	Finish date	2021-05-25
Temperature	24.6°C	Humidity	32%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions(coducted)	PASS

Appendix A：Conducted Peak Output Power

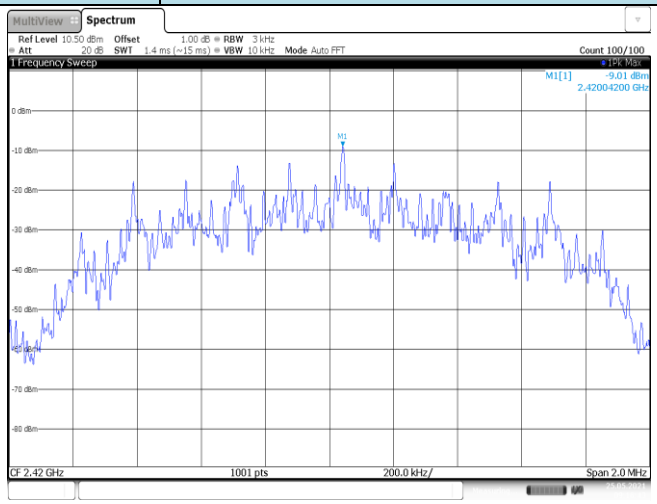
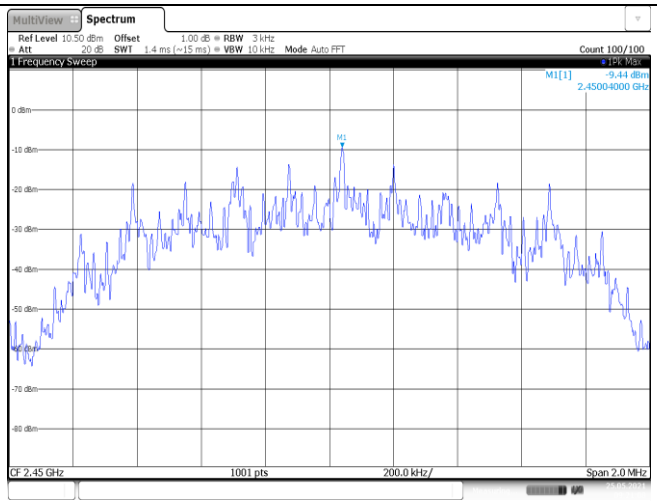
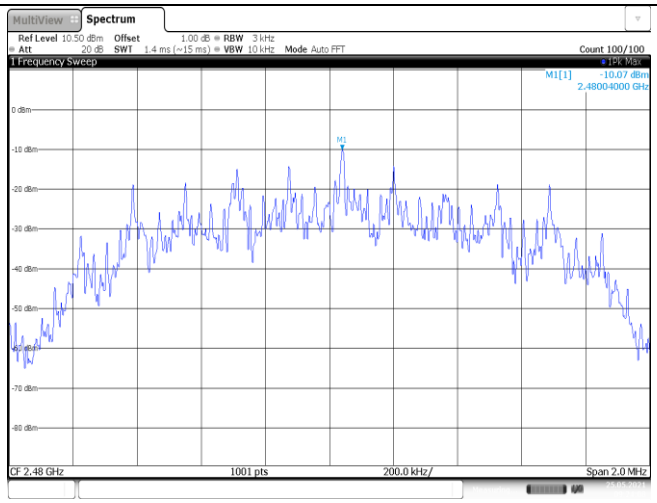
Type	Channel	Peak Output power (dBm)			Average Output power (dBm)			Limit (dBm)	Result
		Antenna 0	Antenna 1	Total	Antenna 0	Antenna 1	Total		
GFSK	CH_L	0.33	1.71	4.08	0.27	1.65	4.02	≤30.00	Pass
	CH_M	-0.21	1.29	3.61	-0.26	1.24	3.56		
	CH_H	-0.64	0.91	3.21	-0.71	0.84	3.14		

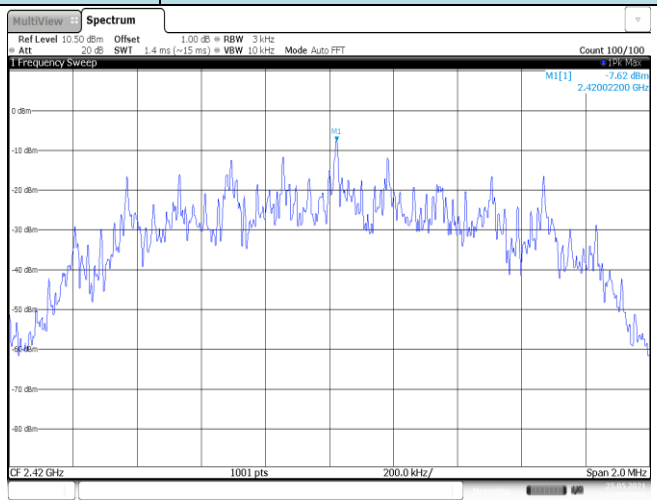
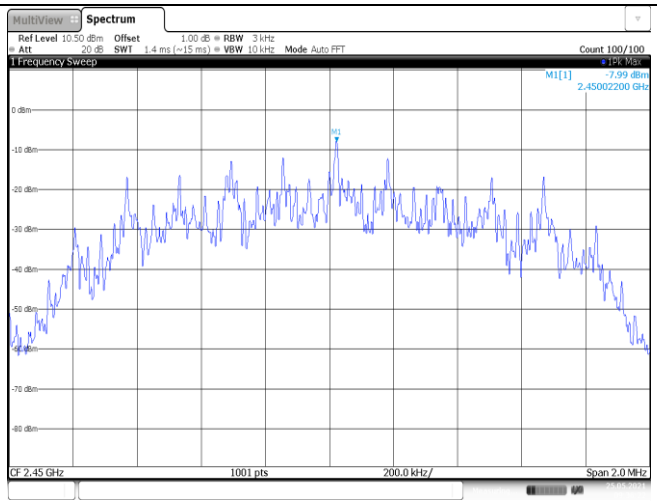
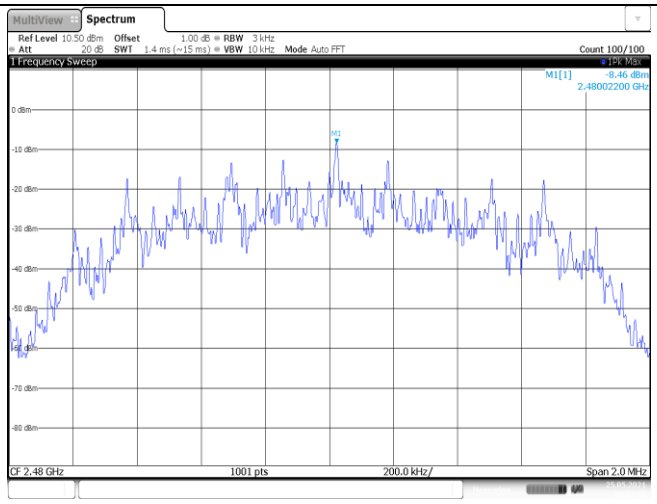
GFSK	Antenna 0
CH_L	
CH_M	
CH_H	

GFSK	Antenna 1
CH_L	
CH_M	
CH_H	

Appendix B：Power Spectral Density

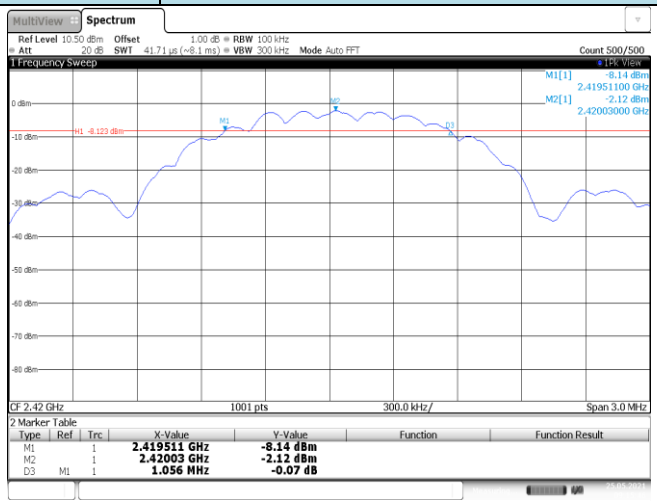
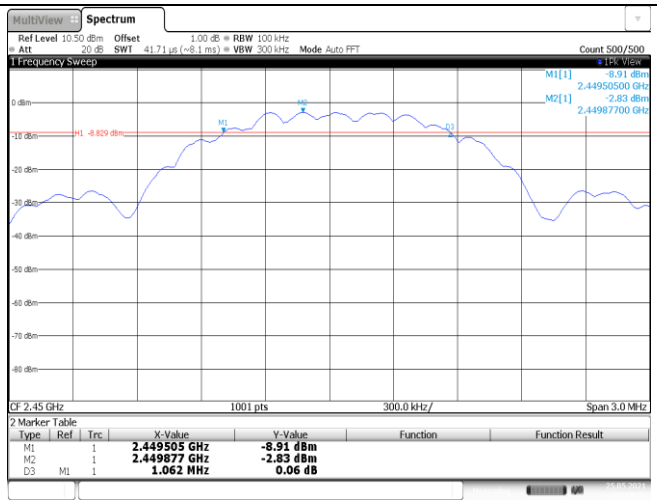
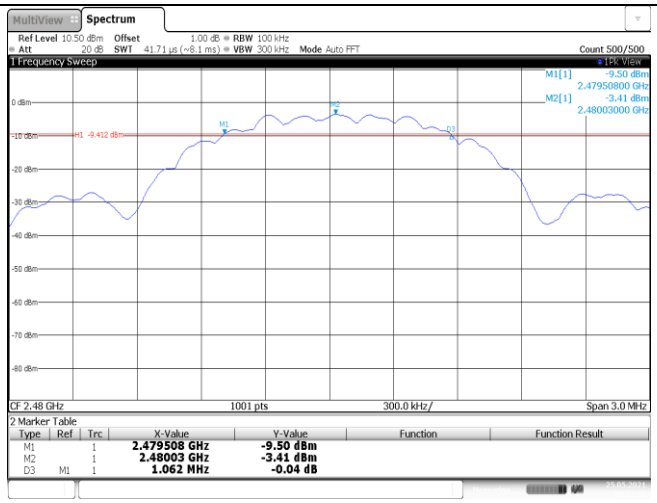
Type	Channel	Power Spectral Density (dBm/30KHz)		Total Power Spectral Density (dBm/3KHz)	Limit (dBm/ 3KHz)	Result
		Antenna 0	Antenna 1			
GFSK	CH_L	-9.01	-7.62	-5.25	≤8.00	Pass
	CH_M	-9.44	-7.99	-5.64		
	CH_H	-10.07	-8.46	-6.18		

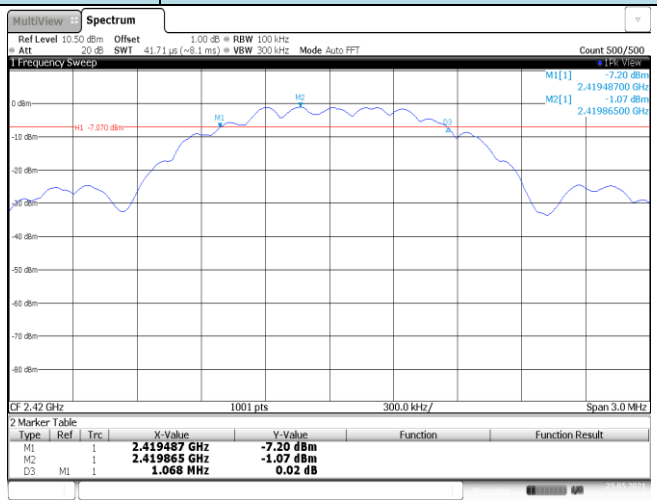
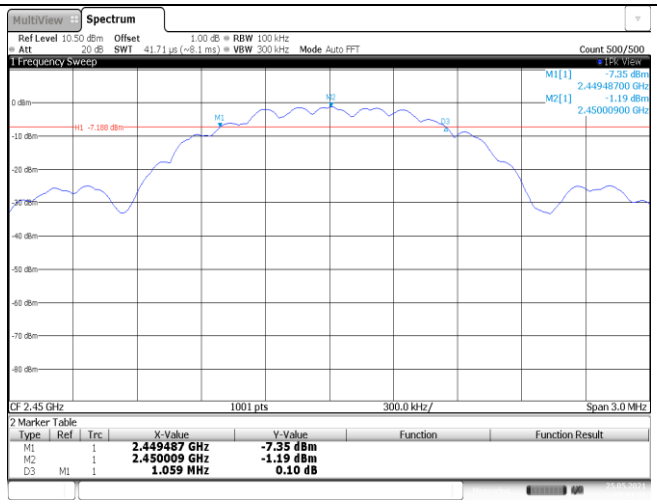
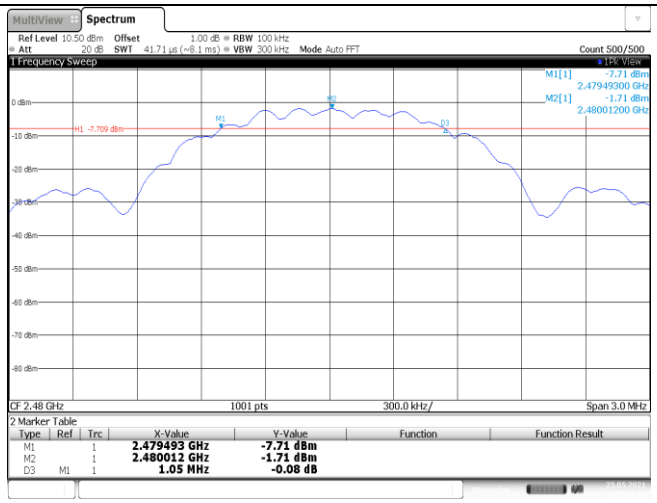
GFSK	Antenna 0
CH_L	
CH_M	
CH_H	

GFSK	Antenna 1
CH_L	
CH_M	
CH_H	

Appendix C：6dB Bandwidth

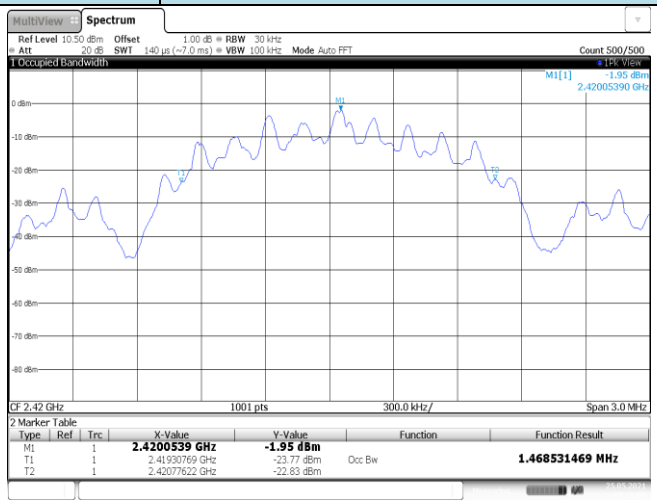
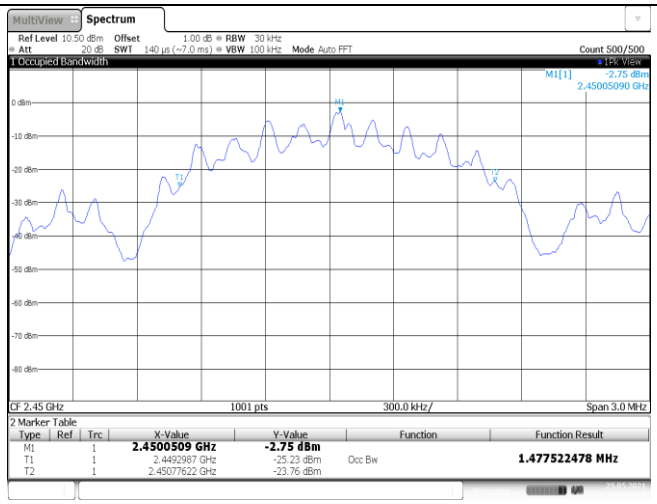
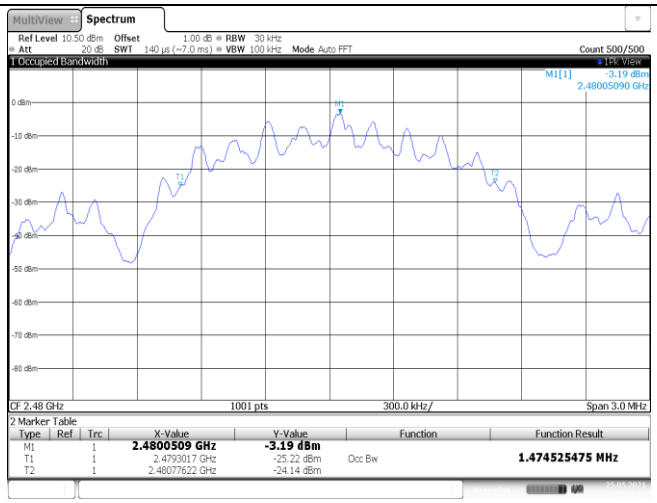
Type	Channel	6dB Bandwidth (MHz)		Limit (kHz)	Result
		Antenna 0	Antenna 1		
GFSK	CH_L	1.056	1.068	≥500	Pass
	CH_M	1.062	1.059		
	CH_H	1.062	1.050		

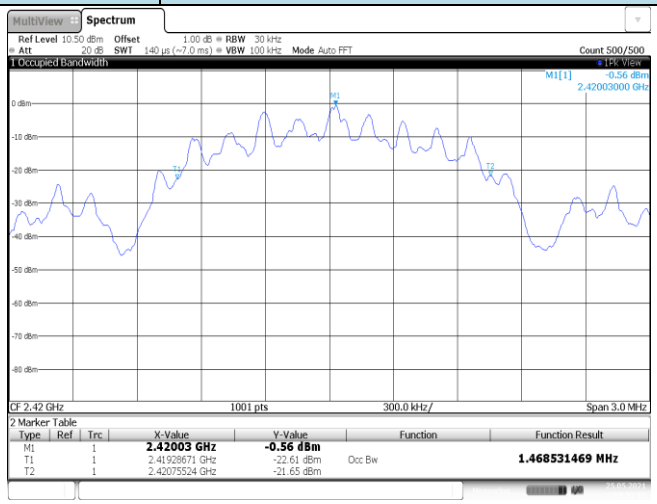
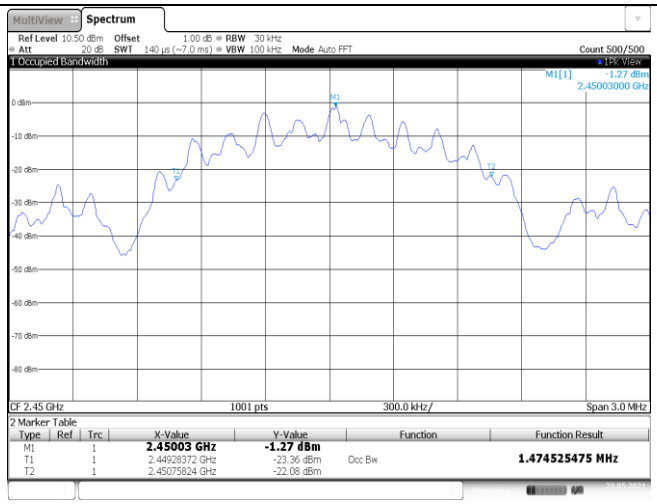
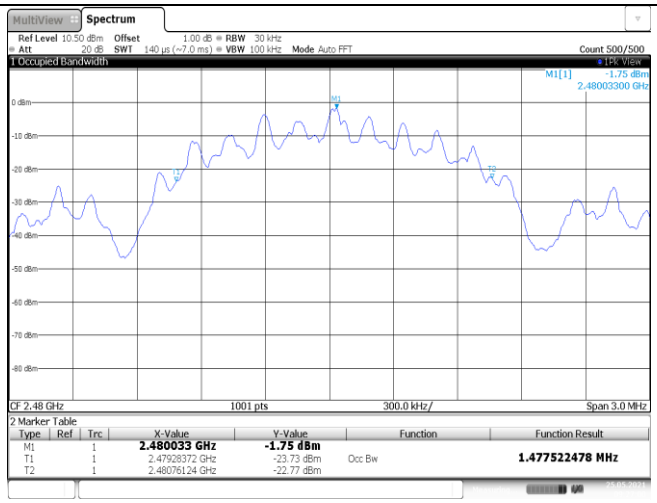
GFSK	Antenna 0
CH_L	
CH_M	
CH_H	

GFSK	Antenna 1
CH_L	
CH_M	
CH_H	

Appendix D：99% Occupied Bandwidth

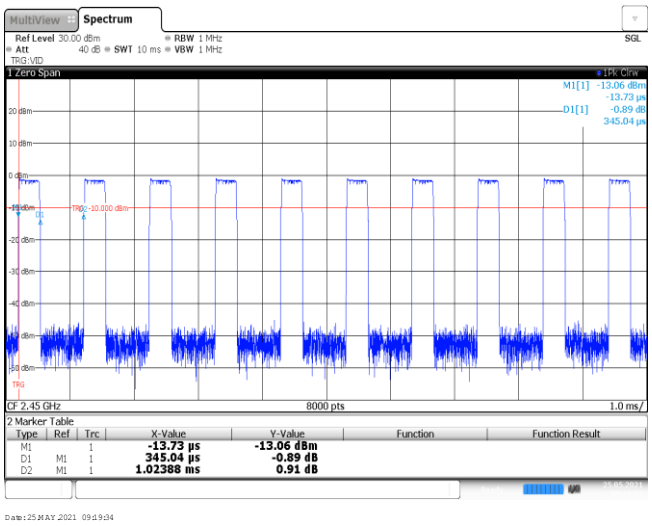
Type	Channel	99% Bandwidth (MHz)		Limit (kHz)	Result
		Antenna 0	Antenna 1		
GFSK	CH_L	1.47	1.47	-	Pass
	CH_M	1.48	1.47		
	CH_H	1.47	1.48		

GFSK	Antenna 0
CH_L	
CH_M	
CH_H	

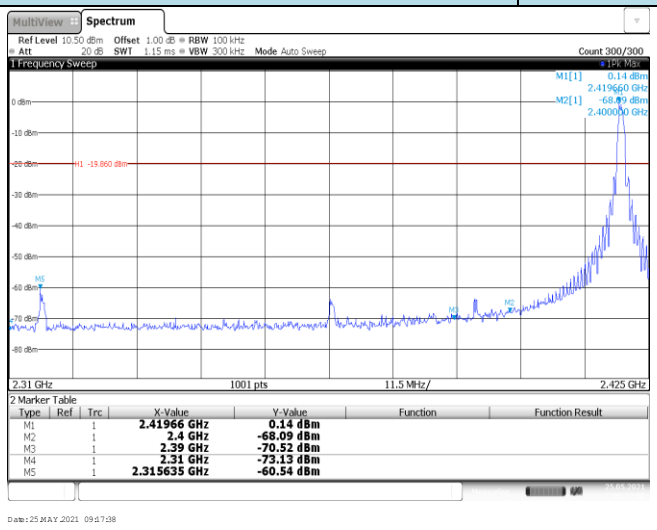
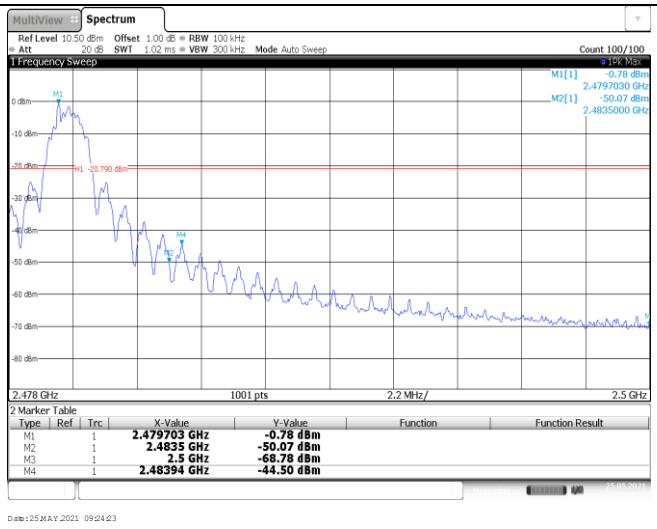
GFSK	Antenna 1
CH_L	
CH_M	
CH_H	

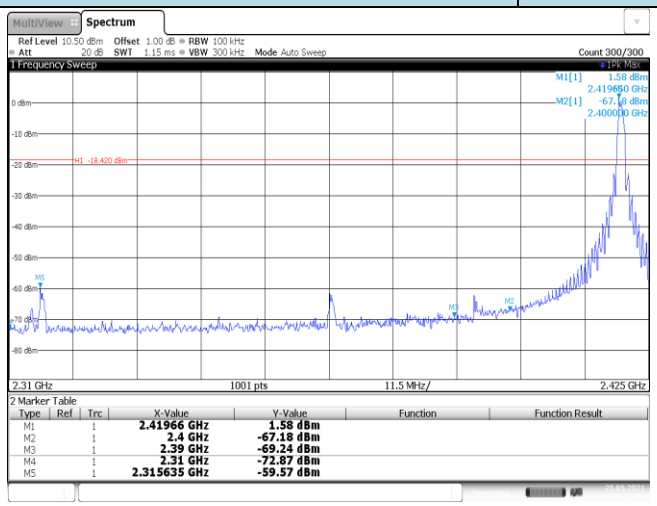
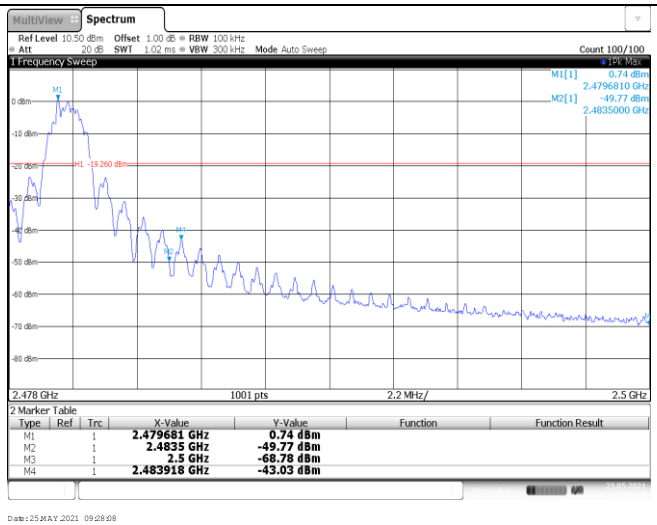
Appendix E：Duty Cycle

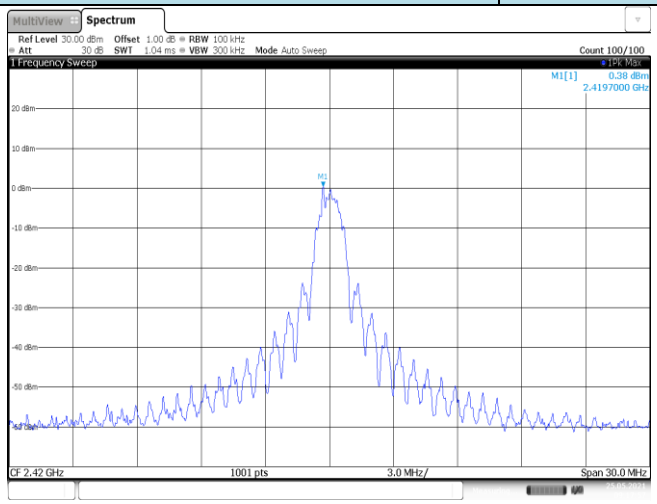
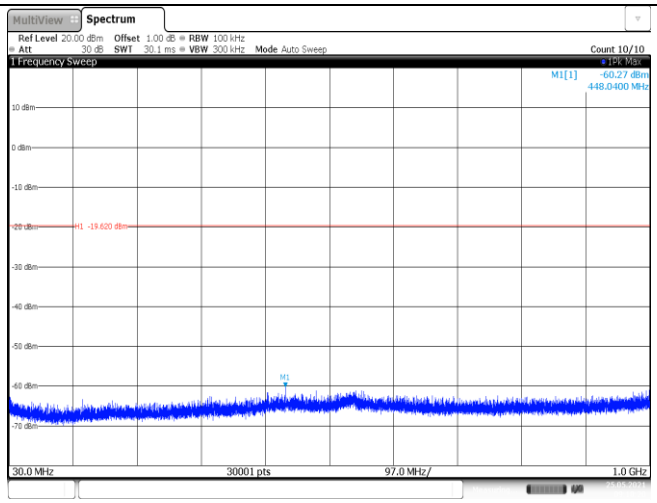
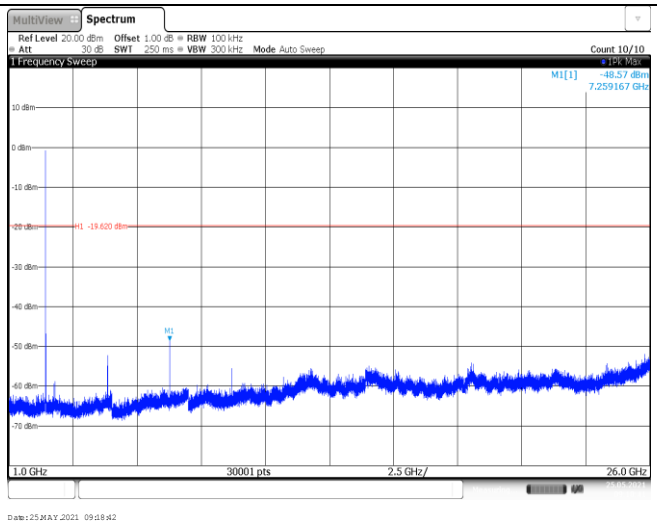
Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
2450	0.35	1.02	34.3%	2.9

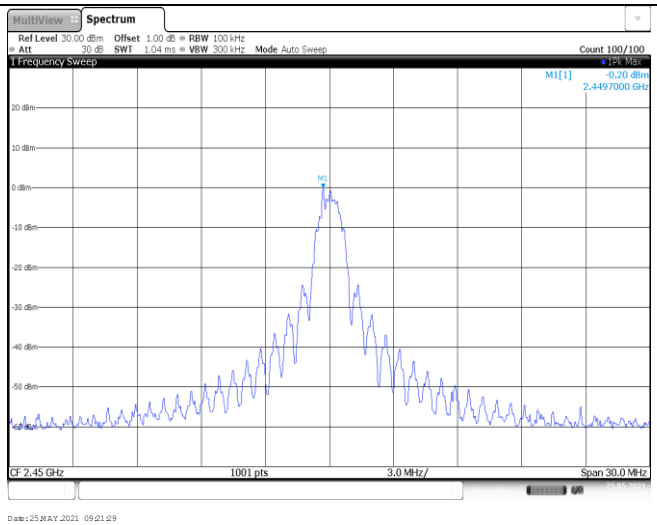
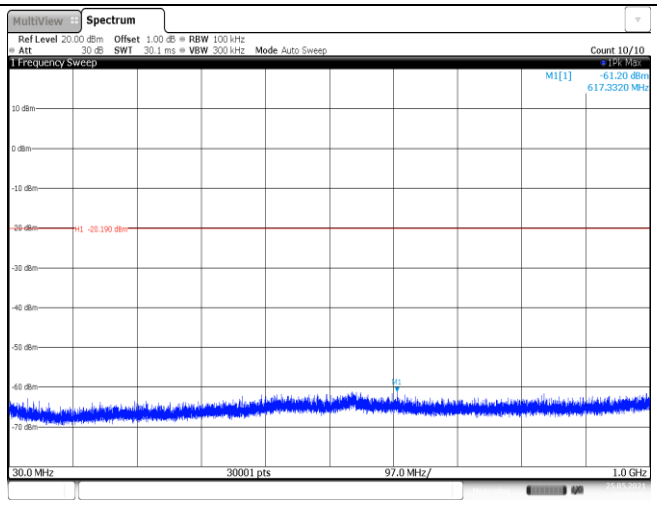
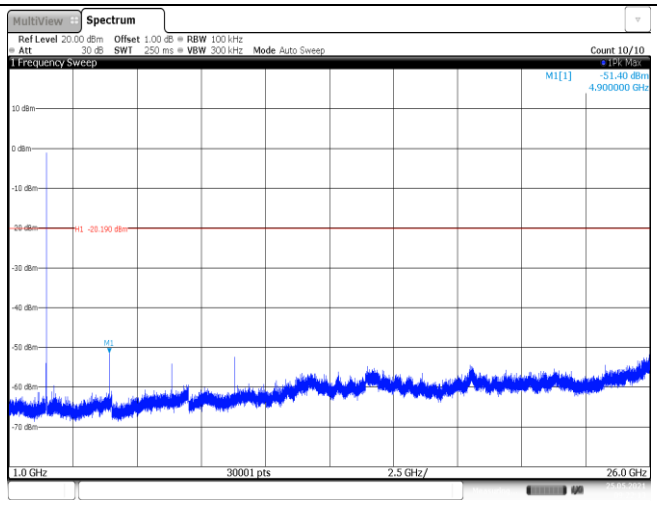


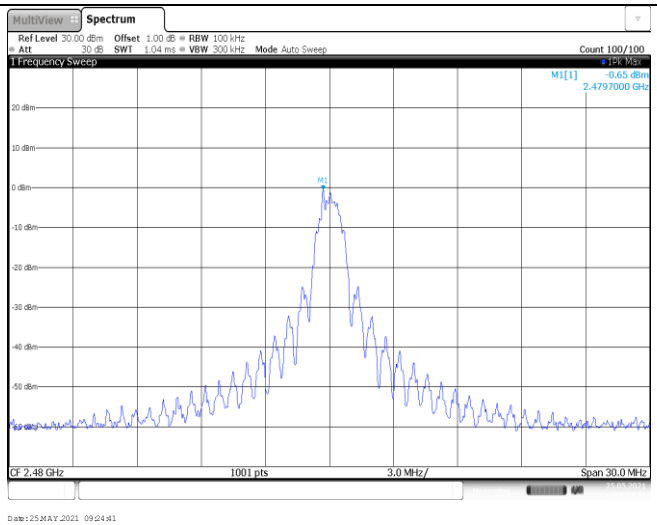
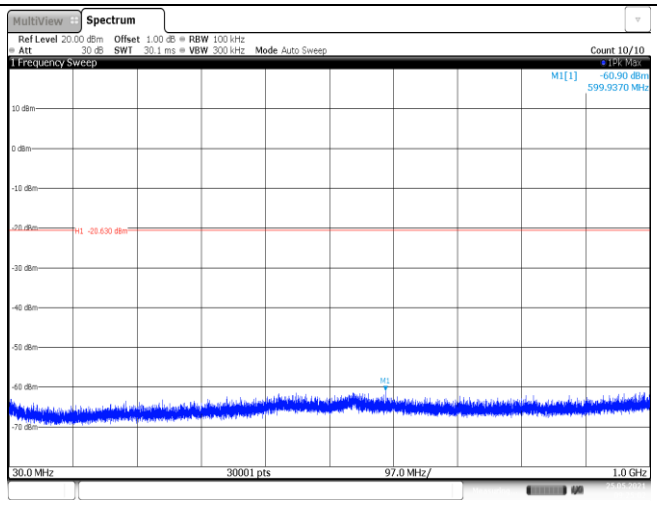
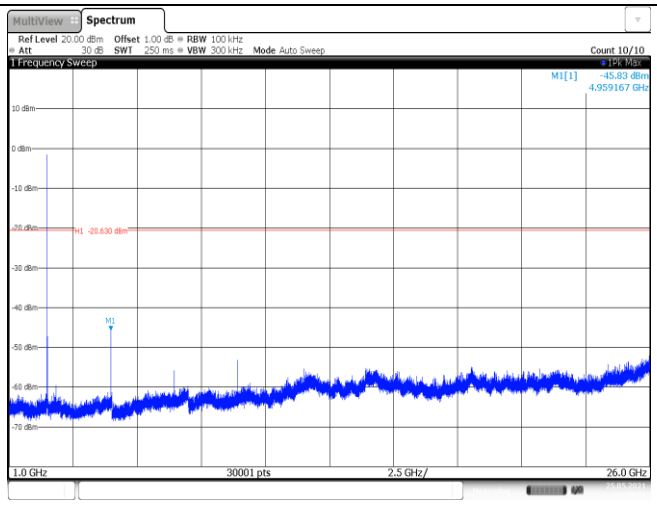
Appendix F：Band Edge and Spurious Emissions (Conducted)

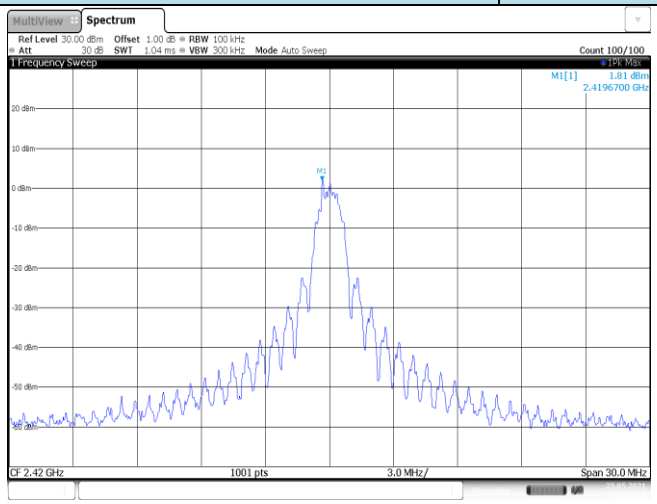
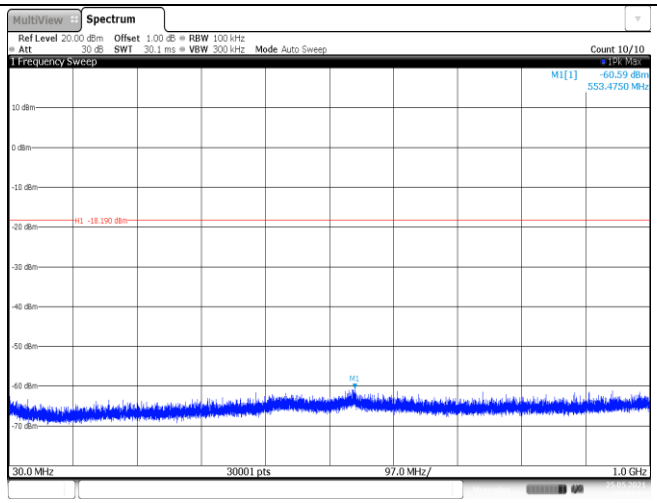
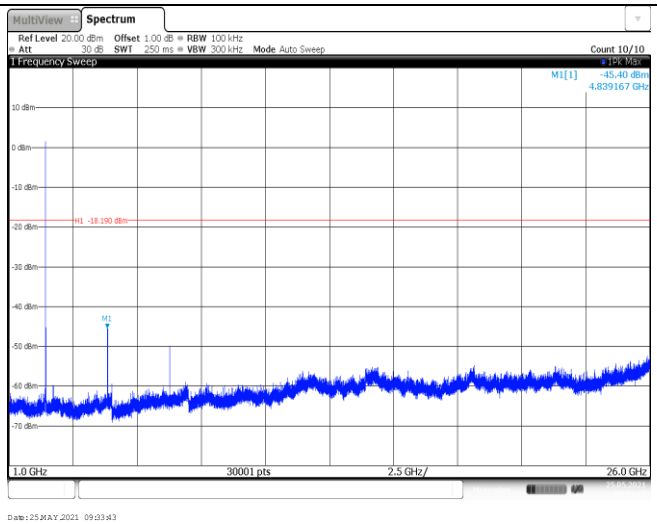
Test Item:	Bandedge	Antenna 0
CH_L		
CH_H		

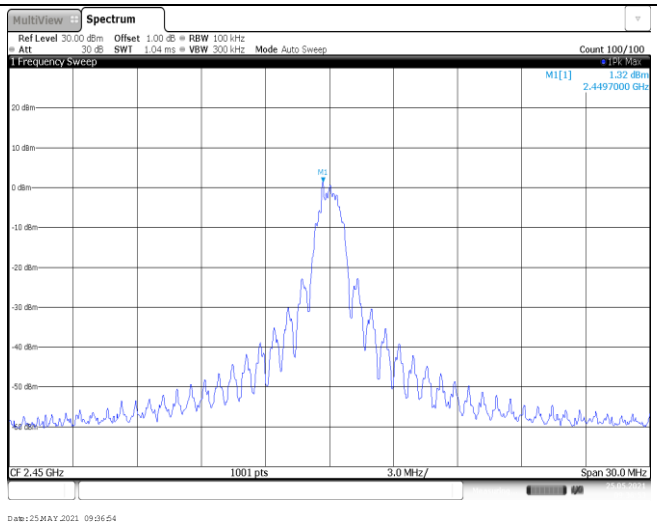
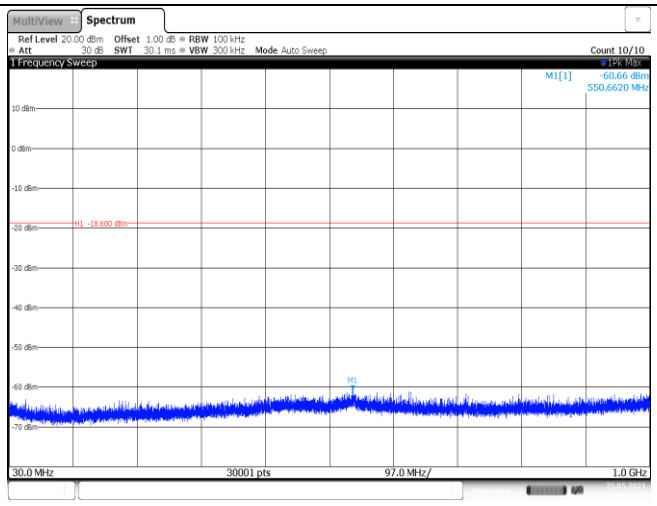
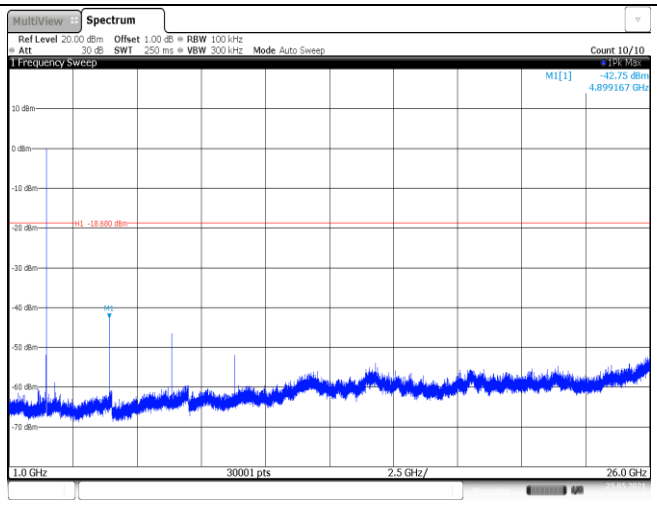
Test Item:	Bandedge	Antenna 1
CH_L		
CH_H		

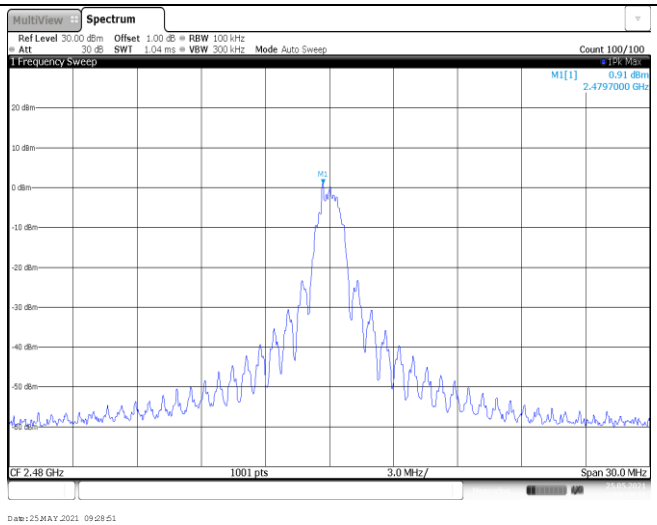
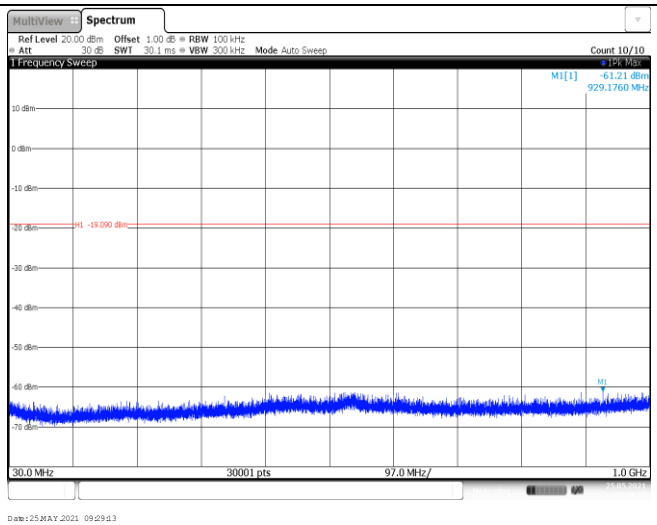
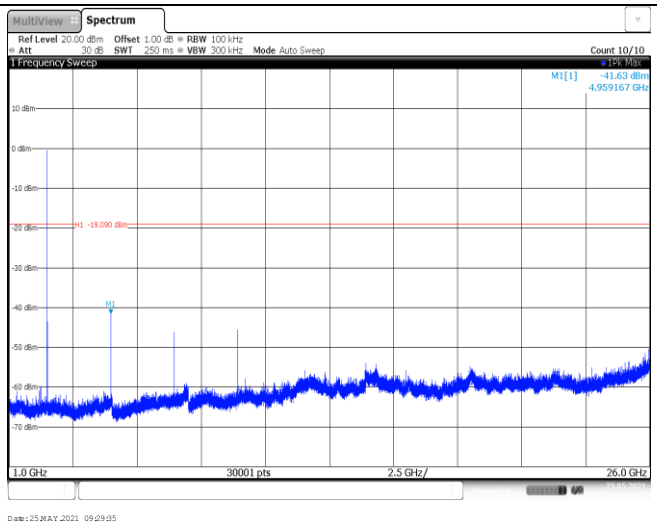
Test Item:	SE	Antenna 0
CH_L Reference level		
CH_L 30MHz~1000MHz		
CH_L 1GHz~26GHz		

CH_M Reference level	
CH_M 30MHz~1000MHz	
CH_M 1GHz~26GHz	

CH_H Reference level	
CH_H 30MHz~1000MHz	
CH_H 1GHz~26GHz	

Test Item:	SE	Antenna 1
CH_L Reference level		
CH_L 30MHz~1000MHz		
CH_L 1GHz~26GHz		

CH_M Reference level	
CH_M 30MHz~1000MHz	
CH_M 1GHz~26GHz	

CH_H Reference level	
CH_H 30MHz~1000MHz	
CH_H 1GHz~26GHz	

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