HYPER Taiwan Technology Inc.

Bluetooth Qualification Report

Customer: Enzytek Technology, Inc.

Date: 2009/1/16

CNLA/TAF Accredited Laboratory to ISO/IEC 17025

- for the scope of *Bluetooth* Testing

Certificate Number 0916

Job Number: 0188-2009Jan01

Signature

The below listed HYPER Taiwan Technology Inc.
Personnel take responsibility for the contents of this Test Report.

Date ： 2009/1/16 Reviewed/Approved by ： 

Table of Content

1. List of Revisions

Version	Date	Author(s)	Description
001	2009/1/16	Min-Hsun Chiang	Initial Version

2. Disclaimer Notice

This test report applies only to the IUT (Implementation Under Test) and the results of the specifications called out in this report.

3. Company Information

3.1. Test Lab information

Company Detail	
Company Name	HYPER Taiwan Technology Inc., LTD
Address	No17-2,Dahu 1st Rd., Dahu Village, Gueisgan Taoyuan County 333, Taiwan ,
TEL	+886-3-3961088
FAX	+886-3-3960669
URL	http://www.hypertaiwan.com.tw/

3.2. Customer information

Company Detail	
Company Name	Enzytek Technology, Inc.
Address	7F,No.35, Hsueh Fu Road, HsinChu 300, Taiwan (新竹市學府路 35 號 7F, 30068)
Contact Person	Kevin Chang
TEL	03-573-6708 EXT 301
Email	kevin.chang@enzytek.com

4. Implementation Under Test

4.1. IUT Information

IUT Detail	
Product Name	BTM-BC4E03-2H
Product General Description	Bluetooth Class II module with CSR BC4-EXT
Product ID	BTM-BC4E03-2H
Date received	2009/01/05
Date(s) tested	2009/01/07 ~ 2009/01/13
Condition of IUT	The IUT was received in good condition.
Hardware Version	BC4-EXT
Software Version	FBTA-BC4E03-2
Specification Version	2.0
Product Type	Controller Subsystem

4.2. List of Bluetooth Core Protocols supported

Bluetooth Core Protocols		
☒	RF	Radio Frequency
☒	BB	BaseBand
☒	LMP	Link Manager
☐	L2CAP	Logical Link Control and Adaptation Protocol
☐	SDP	Service Discovery Protocol
☐	GAP	Generic Access Profile
☒	HCI	Host Controller Interface

4.3. List of Bluetooth External to Core Protocols and Profiles supported

Bluetooth External to Core Protocols and Profiles		
☐	A2DP 1.0	Advanced Audio Distribution Profile 1.0
☐	AVCTP 1.0	Audio / Video Control Transport Protocol 1.0
☐	AVDTP 1.0	Audio / Video Distribution Transport Protocol 1.0
☐	AVRCP 1.0	Audio / Video Remote Control Profile 1.0
☐	BIP	Basic Imaging Profile
☐	BNEP	Bluetooth Network Encapsulation Protocol
☐	BPP	Basic Printing Profile
☐	BPP1.2	Basic Printing Profile 1.2
☐	CTP	Cordless Telephony Profile
☐	DUN	Dial Up Networking Profile
☐	DID	Device ID
☐	FAX	FAX Profile
☐	FTP	File Transfer Profile
☐	GAVDP 1.0	Generic Audio/Video Distribution Profile 1.0
☐	HCRP	Hard Copy Cable Replacement Profile
☐	HCRP1.2	Hard Copy Cable Replacement Profile 1.2
☐	HFP1.5	Hands-Free Profile 1.5
☐	HDP	Health Device Profile
☐	HID	Human Interface Device Profile
☐	HSP	Headset Profile
☐	ICP	Intercom Profile
☐	IOPT	Interoperability Test Specification
☐	OPP	Object Push Profile
☐	MCAP	Multi-Channel Adaptation Protocol
☐	PAN	Personal Area Networking Profile
☐	PBAP	Phone Book Access Profile
☐	RFCOMM	RF COMM Protocol
☐	SAP	SIM Access Profile
☐	SDAP	Service Discovery Application Profile
☐	SPP	Serial Port Profile
☐	SYNC	Synchronization Profile
☐	VDP	Video Distribution Profile

4.4. List of Applicable Qualified Pre-tested Components

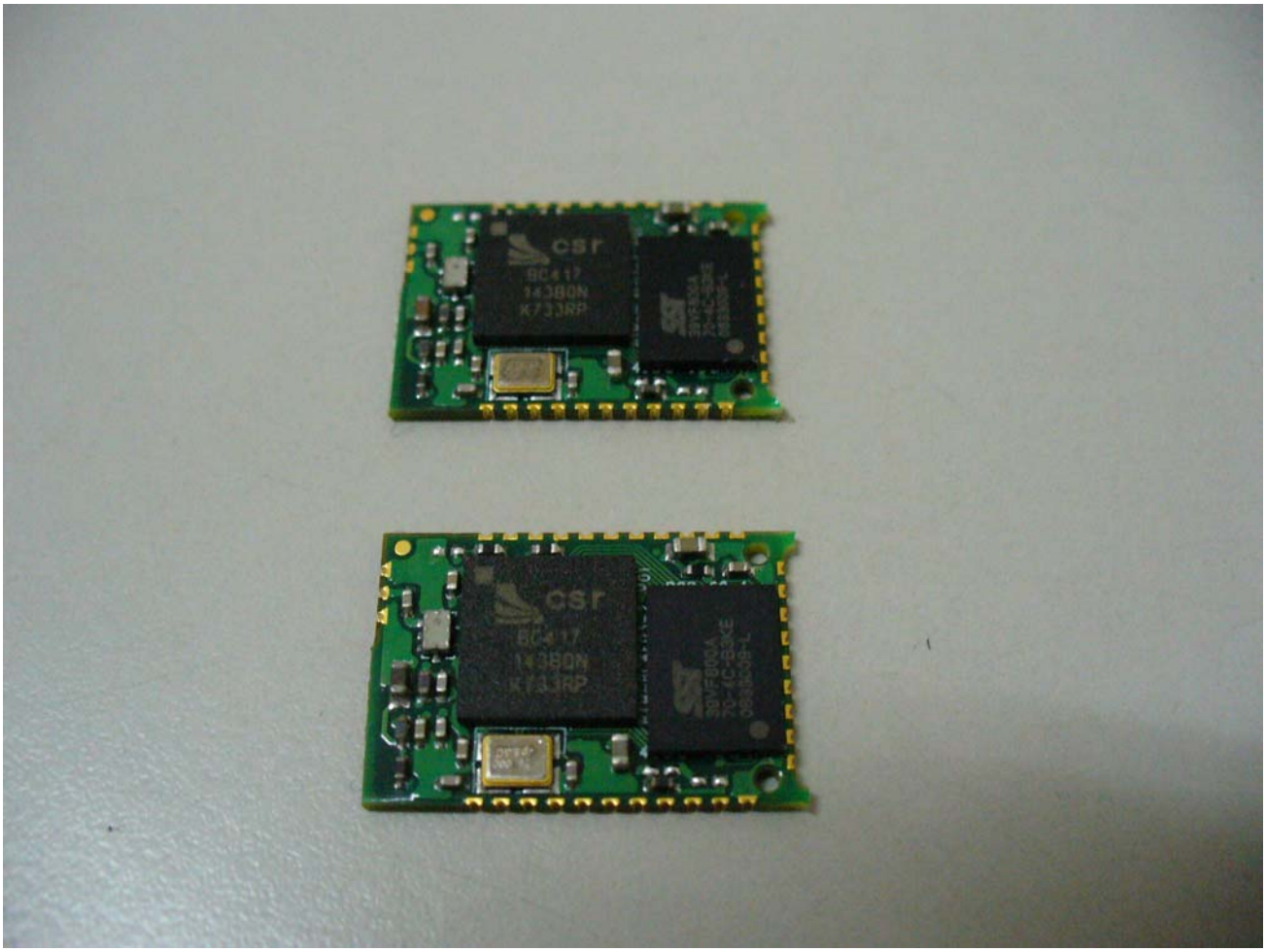
Bluetooth QDID	Product ID	Manufacturer
B01867	BC4-Ext (BC417143B)	Cambridge Silicon Radio

4.5. PIXIT for RF Conformance Test

Parameter Name	Type	Test case reference	Value
Timer for TX power control	ms	TRM/CA/03 Power Control	N/A
In band Image frequency	MHz	RCV/CA/03 C/I Performance	N/A
Value n for Intermodulation test	Integer	RCV/CA/05 Intermodulation Performance	N/A
Nominal power source voltage	V	Chapter 6.3, RF Test Specification	3.3V
Operating temperature range	°C	Chapter 6.4, RF Test Specification	0-70°C
Extreme power source voltage	V	Chapter 6.4, RF Test Specification	2.7V ~ 3.6V
Antenna gain	dB	Chapter 6.4, RF Test Specification	0dB
Nominal Temperature	°C	Chapter 6.4, RF Test Specification	25-28°C
Nominal Humidity	%	Chapter 6.4, RF Test Specification	25% – 65%

4.6. IUT Photograph

RF



5. List of Test Equipment Used

5.1. Test Equipment for RF

Description	Manufacturer	Cal Date	Cal Due
BRITS	Hyper Taiwan Technology	2008/06/24	2009/06/23

6. Reference Test Requirement Document

Description	Document Version
TCRL	TCRL_2.0_EDR_2008-2
RF Test Spec	RF.TS/2.1.E.2

7. Test Summary

Test Item	Test Verdict	Note
RF	PASS	See detail test result in Part A

Part A: RF Conformance Test Report

Part A

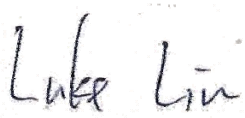
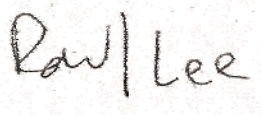
RF Conformance Test Report

Product Name：BTM-BC4E03-2H

Signature

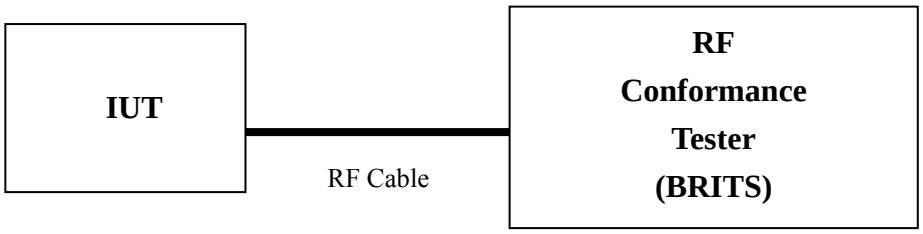
The below listed HYPER Taiwan Technology Inc.

Date ： 2009/01/16

Test Engineer：  Reviewed/Approved by ： 

Content

1. RF Test Platform



2. Test Case Result Summary

Test Case	Description	Cat.	Verdict
TRM/CA/01/C	Output Power	A	Pass
TRM/CA/02/C	Power Density	B	Pass
TRM/CA/03/C	Power Control	A	Pass
TRM/CA/04/C	TX Output Spectrum - Frequency Range	A	Pass
TRM/CA/05/C	TX Output Spectrum - 20 dB Bandwidth	A	Pass
TRM/CA/06/C	TX Output Spectrum - Adjacent Channel Power	A	Pass
TRM/CA/07/C	Modulation Characteristics	A	Pass
TRM/CA/08/C	Initial Carrier Frequency Tolerance	A	Pass
TRM/CA/09/C	Carrier Frequency Drift	A	Pass
RCV/CA/01/C	Sensitivity - Single Slot Packets	A	Pass
RCV/CA/02/C	Sensitivity - Multi-Slot Packets	A	Pass
RCV/CA/03/C	C/I Performance	A	Pass
RCV/CA/04/C	Blocking Performance	A	Pass
RCV/CA/05/C	Intermodulation Performance	A	Pass
RCV/CA/06/C	Maximum Input Level	A	Pass

2.1. Test Case List for Normal Condition

2.1.1. RF Description

EUT Power Class	Class 2
EUT Antenna Gain	0 dBi
Test Condition	Normal Condition
EUT To Spectrum Loss (Low)	8.82
EUT To Spectrum Loss (Mid)	8.55
EUT To Spectrum Loss (High)	8.83

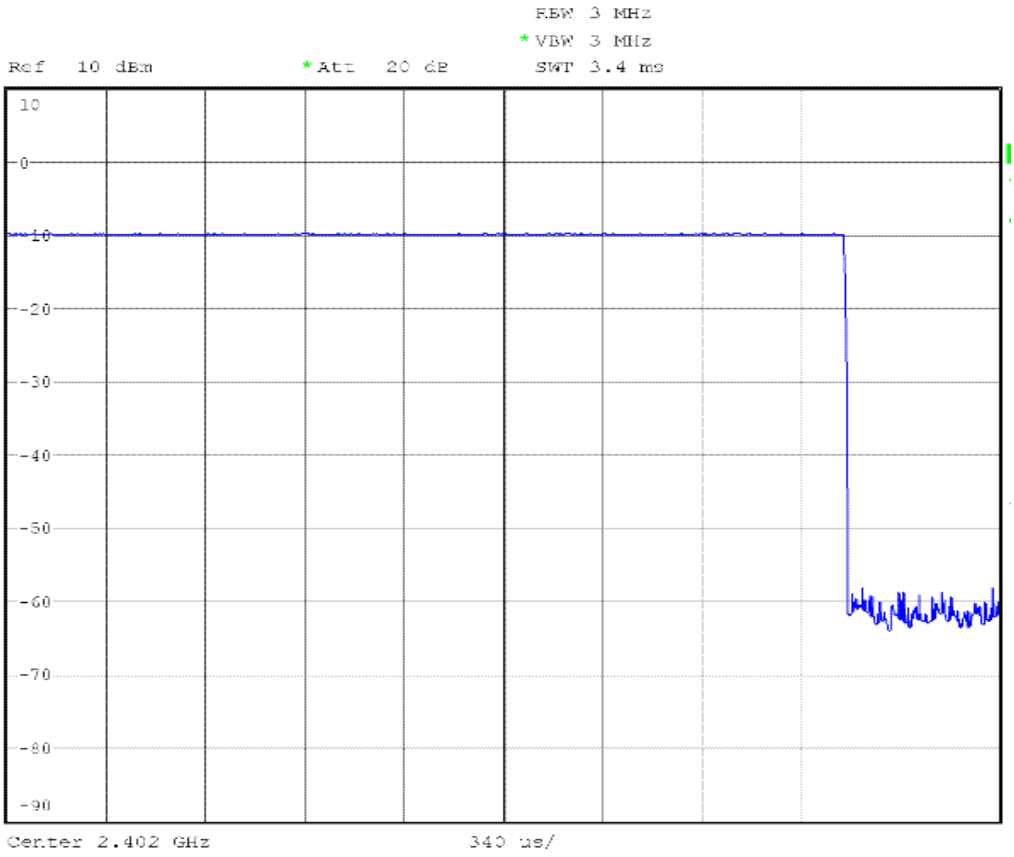
2.1.2. Test Case: TRM/CA/01/C - Output Power

Expected Outcome:

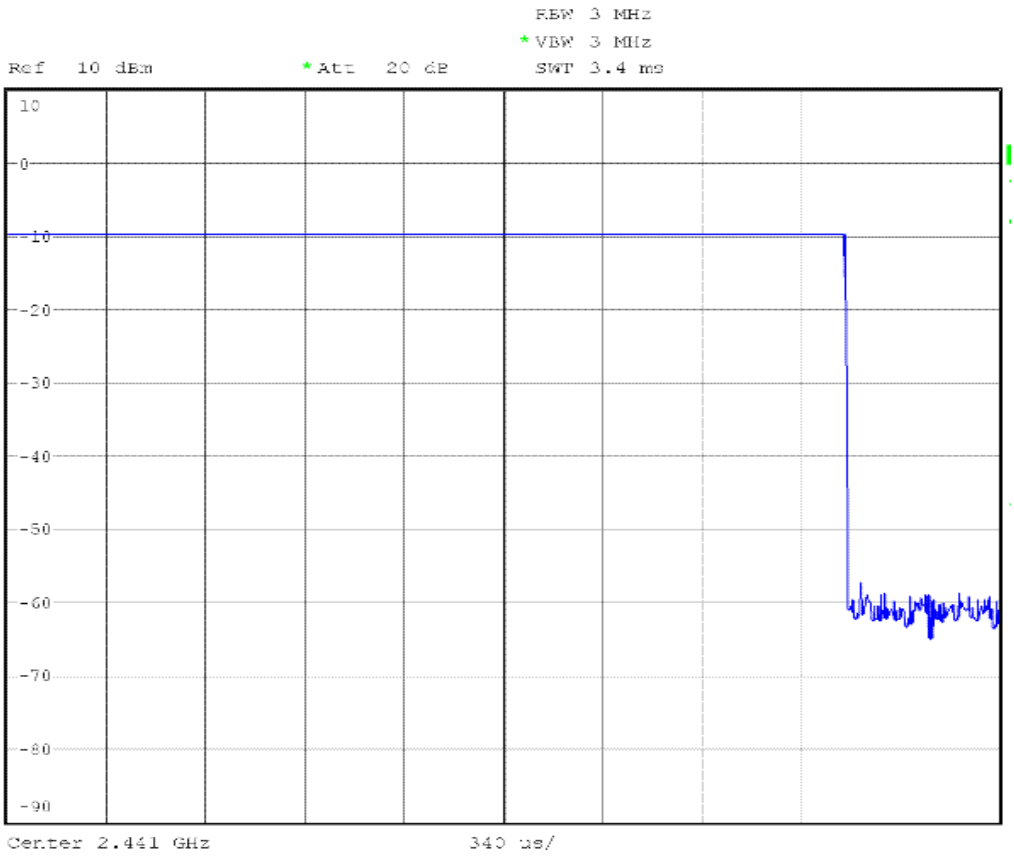
All values as measured must fulfill the following conditions:

1. P av < 100mW (20 dBm) EIRP
2. P pk < 200mW (23 dBm) EIRP
3. If the EUT is a power class 1 equipment :P av > 1mW (0dBm)
4. If the EUT is a power class 2 equipment :0.25mW (-6 dBm) < P av < 2.5mW (4dBm)
5. If the EUT is a power class 3 equipment :P av < 1mW (0dBm)

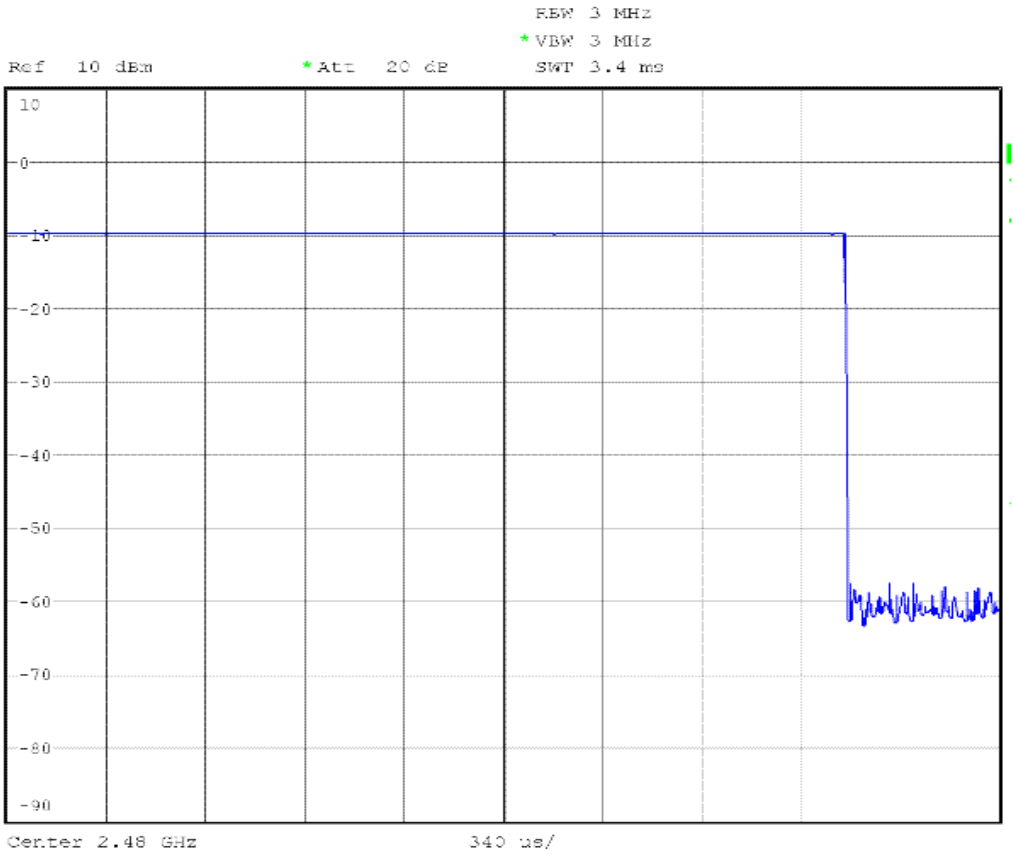
Test Frequency	Item	Value(dBm)	Verdict
Low operating frequency (2402MHz)	Peak Power	-1.10	N/A
	Average Power	-1.15	Pass
	Peak Power (EIRP)	-1.10	Pass
	Average Power (EIRP)	-1.15	Pass
Mid operating frequency (2441MHz)	Peak Power	-1.24	N/A
	Average Power	-1.28	Pass
	Peak Power (EIRP)	-1.24	Pass
	Average Power (EIRP)	-1.28	Pass
High operating frequency (2480MHz)	Peak Power	-1.05	N/A
	Average Power	-1.09	Pass
	Peak Power (EIRP)	-1.05	Pass
	Average Power (EIRP)	-1.09	Pass



Output Power (Low operating frequency)



Output Power (Mid operating frequency)



Output Power (High operating frequency)

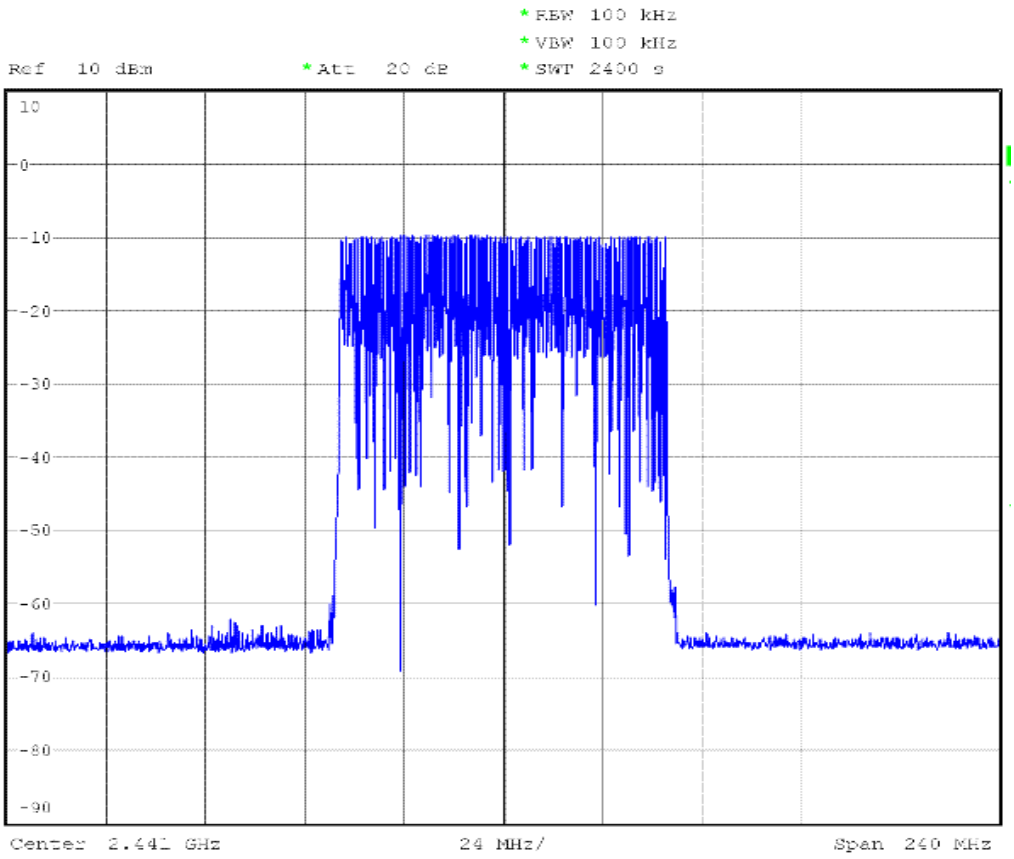
2.1.3. Test Case: TRM/CA/02/C - Power Density

Expected Outcome:

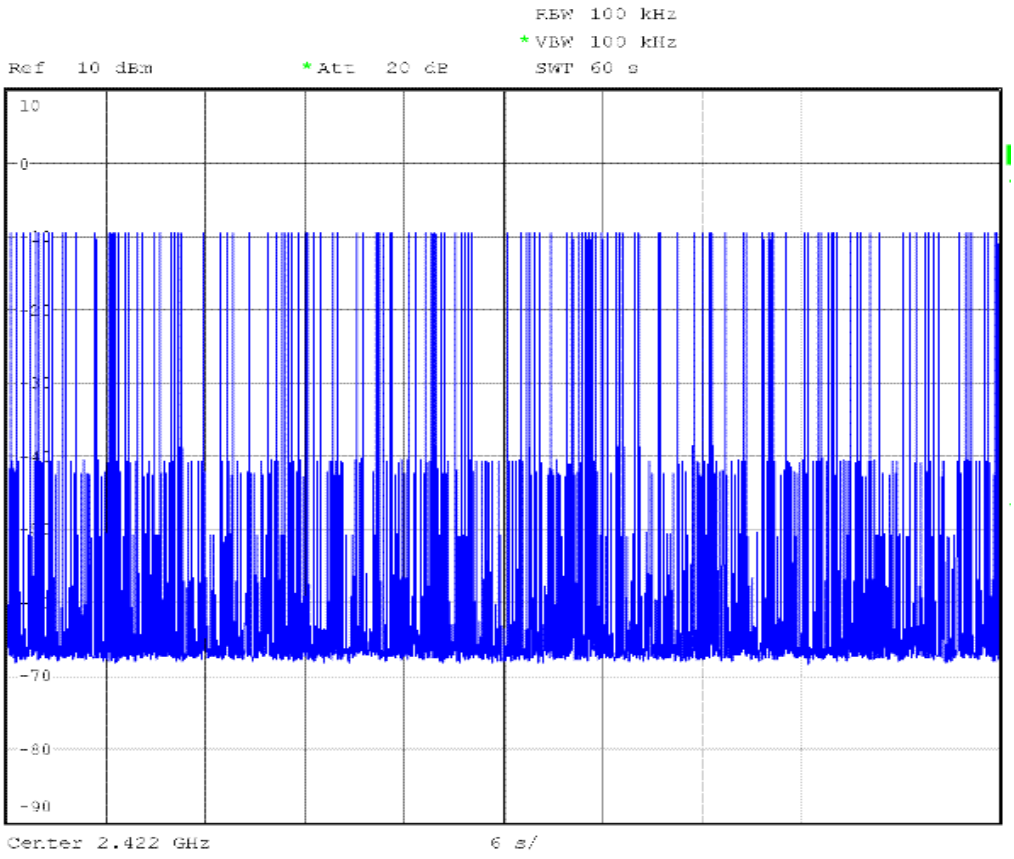
All values as measured must fulfill the following conditions:

1. Power Density < 100 mW (20dBm) per 100 kHz EIRP

Max Frequency (MHz)	Peak Power (dBm)	Power Density (dBm/100KHz)	Limit (dBm/100KHz)	Verdict
2422.00 MHz	-1.27	-1.04	<20	Pass



Power Density (Step1)



Power Density (Step2)

2.1.4. Test Case: TRM/CA/03/C - Power Control

Expected Outcome:

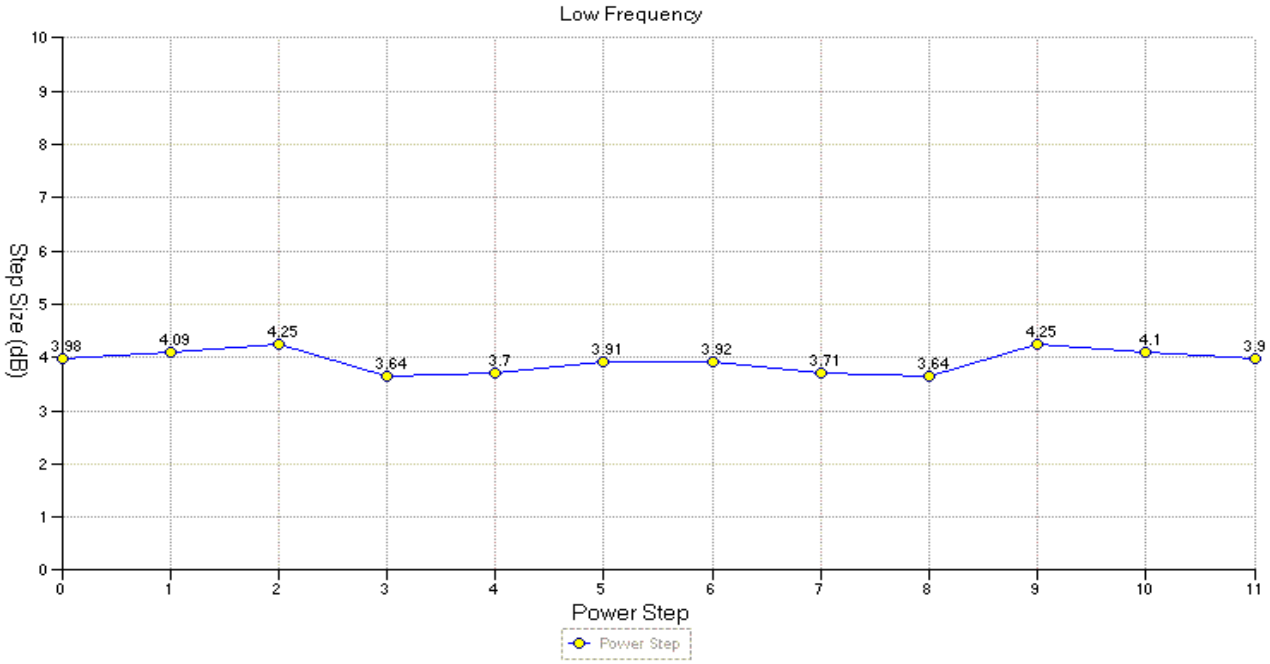
All values as measured must fulfill the following conditions:

Expected Outcome refer to the step size and to the minimum output power. The latter depends on the power class of the EUT.

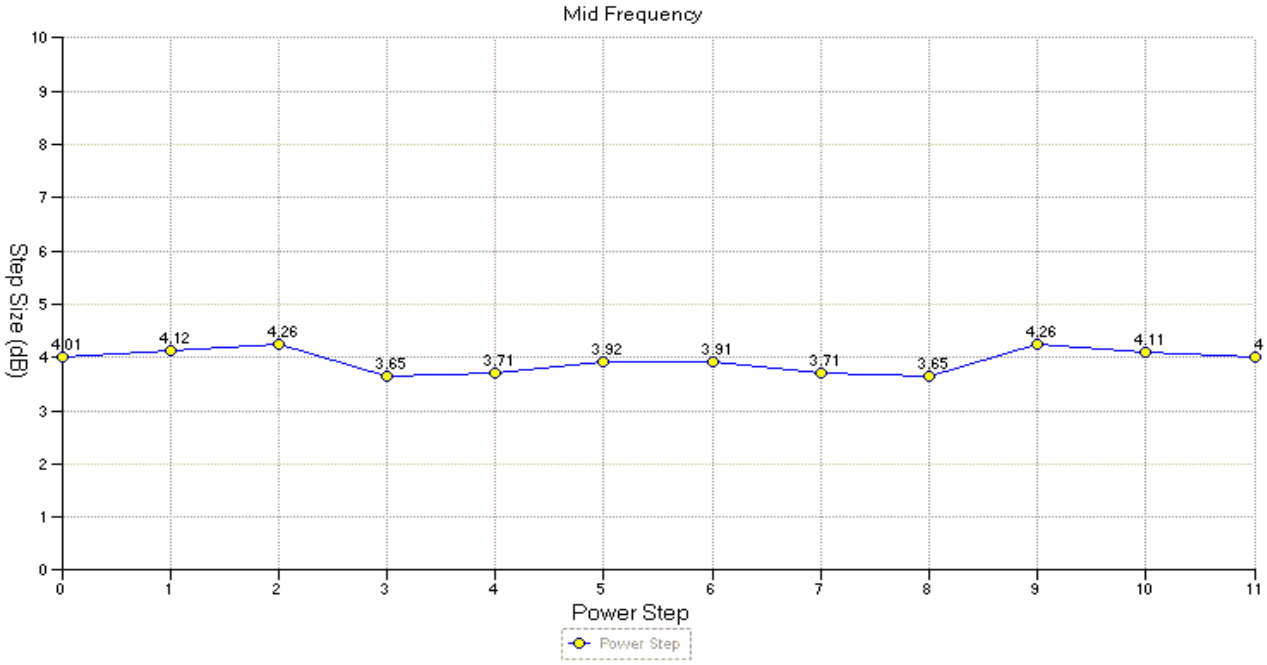
1. Step size of the power control: 2dB ≤ step size ≤ 8 dB.
2. For power class 1 equipment :At minimum power step: Pav < 4dBm

Test Frequency (MHz)	Decrement OR Increment	Step	Power Value (dBm)	2dBm≤Step Size≤8dBm	Verdict
Low operating Frequency (2402 MHz)	Max	0	-1.11	N/A	N/A
	Decrement	1	-5.09	2dBm≤3.98≤8dBm	Pass
	Decrement	2	-9.19	2dBm≤4.1≤8dBm	Pass
	Decrement	3	-13.44	2dBm≤4.25≤8dBm	Pass
	Decrement	4	-17.08	2dBm≤3.64≤8dBm	Pass
	Decrement	5	-20.78	2dBm≤3.7≤8dBm	Pass
	Decrement	6	-24.69	2dBm≤3.91≤8dBm	Pass
	Min	0	-24.69	N/A	N/A
	Increment	1	-20.78	2dBm≤3.91≤8dBm	Pass
	Increment	2	-17.07	2dBm≤3.71≤8dBm	Pass
	Increment	3	-13.43	2dBm≤3.64≤8dBm	Pass
	Increment	4	-9.18	2dBm≤4.25≤8dBm	Pass
	Increment	5	-5.08	2dBm≤4.1≤8dBm	Pass
	Increment	6	-1.1	2dBm≤3.98≤8dBm	Pass
Mid operating Frequency (2441 MHz)	Max	0	-1.19	N/A	N/A
	Decrement	1	-5.19	2dBm≤4≤8dBm	Pass
	Decrement	2	-9.31	2dBm≤4.12≤8dBm	Pass
	Decrement	3	-13.57	2dBm≤4.26≤8dBm	Pass
	Decrement	4	-17.22	2dBm≤3.65≤8dBm	Pass
	Decrement	5	-20.93	2dBm≤3.71≤8dBm	Pass
	Decrement	6	-24.85	2dBm≤3.92≤8dBm	Pass
	Min	0	-24.85	N/A	N/A
	Increment	1	-20.94	2dBm≤3.91≤8dBm	Pass
	Increment	2	-17.22	2dBm≤3.72≤8dBm	Pass
	Increment	3	-13.57	2dBm≤3.65≤8dBm	Pass

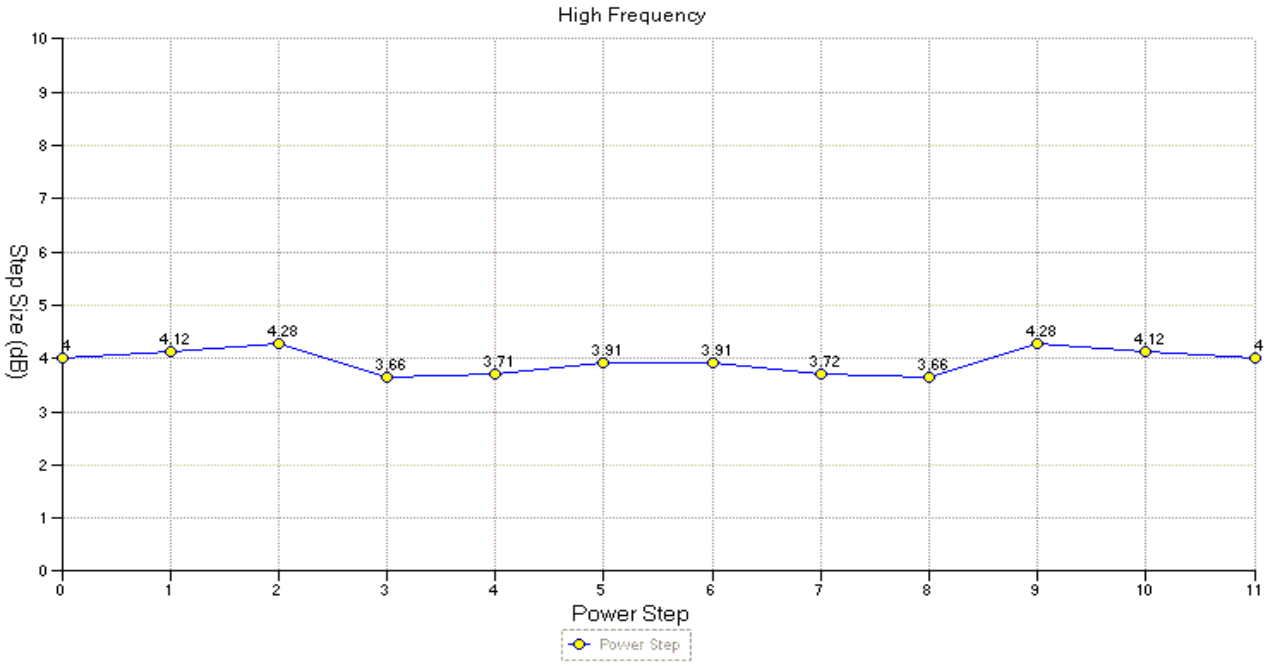
	Increment	4	-9.31	2dBm≤4.26≤8dBm	Pass
	Increment	5	-5.19	2dBm≤4.12≤8dBm	Pass
	Increment	6	-1.19	2dBm≤4≤8dBm	Pass
High operating Frequency (2480 MHz)	Max	0	-0.98	N/A	N/A
	Decrement	1	-4.98	2dBm≤4≤8dBm	Pass
	Decrement	2	-9.1	2dBm≤4.12≤8dBm	Pass
	Decrement	3	-13.38	2dBm≤4.28≤8dBm	Pass
	Decrement	4	-17.04	2dBm≤3.66≤8dBm	Pass
	Decrement	5	-20.75	2dBm≤3.71≤8dBm	Pass
	Decrement	6	-24.66	2dBm≤3.91≤8dBm	Pass
	Min	0	-24.66	N/A	N/A
	Increment	1	-20.75	2dBm≤3.91≤8dBm	Pass
	Increment	2	-17.03	2dBm≤3.72≤8dBm	Pass
	Increment	3	-13.37	2dBm≤3.66≤8dBm	Pass
	Increment	4	-9.09	2dBm≤4.28≤8dBm	Pass
	Increment	5	-4.97	2dBm≤4.12≤8dBm	Pass
	Increment	6	-0.97	2dBm≤4≤8dBm	Pass



Power Control (Low operating Frequency)



Power Control (Mid operating Frequency)



Power Control (High operating Frequency)

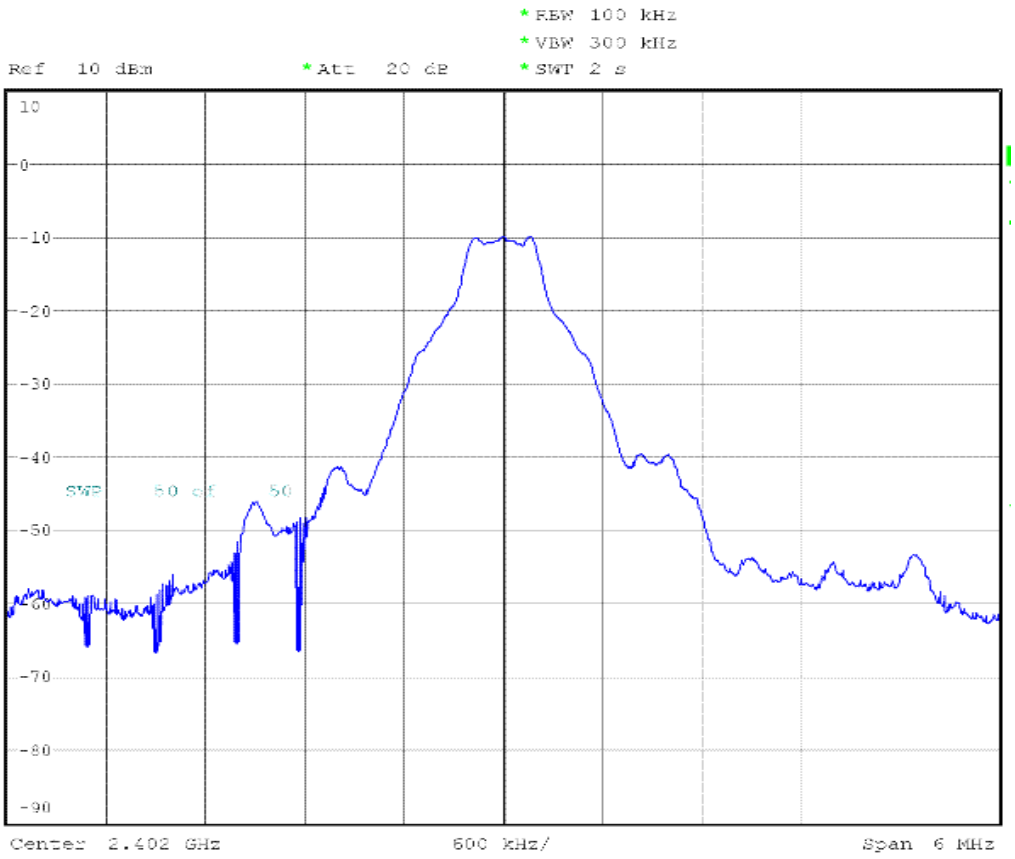
2.1.5. Test Case: TRM/CA/04/C - TX Output Spectrum - Frequency Range

Expected Outcome:

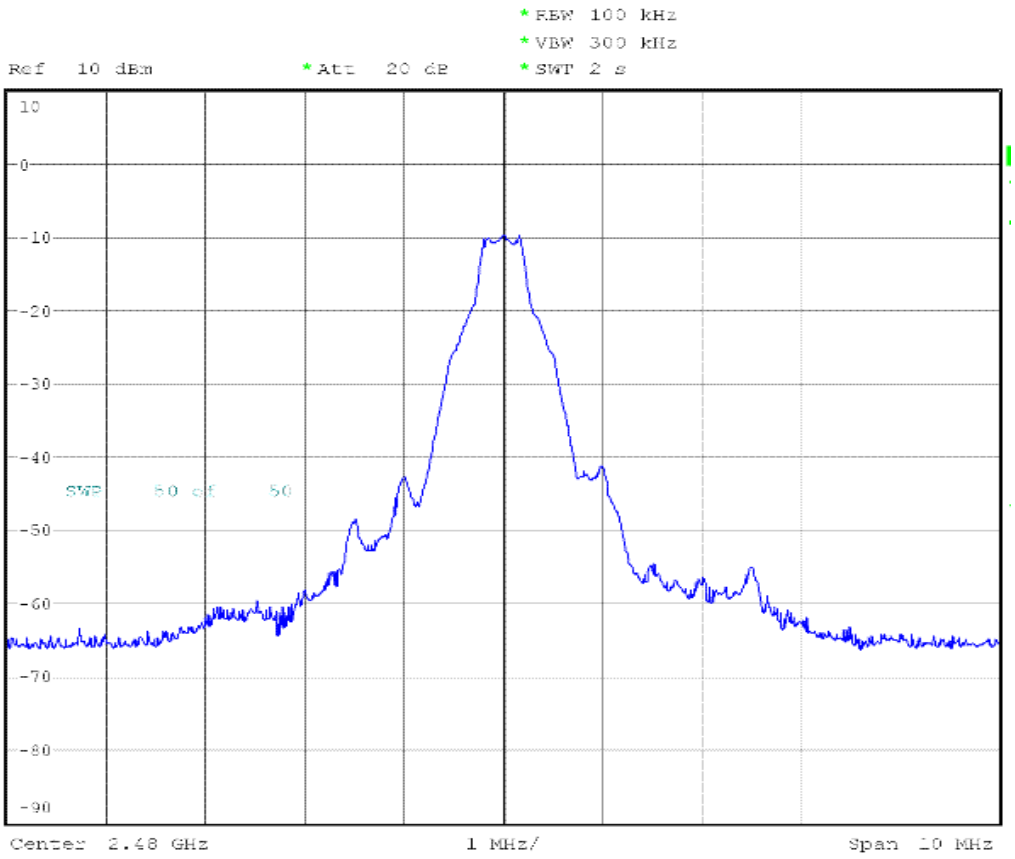
All values as measured must fulfill the following conditions:

1. fL, fH within the allowed frequency band :2.4 GHz – 2.4835 GHz

Frequency (MHz)		Limit(MHz)	Verdict
Lowest(fL)	2401.28	fL>2400.0	Pass
Highest(fH)	2478.43	fH <2483.5	Pass



TX Output Spectrum – Frequency range (fL)



TX Output Spectrum – Frequency range (fH)

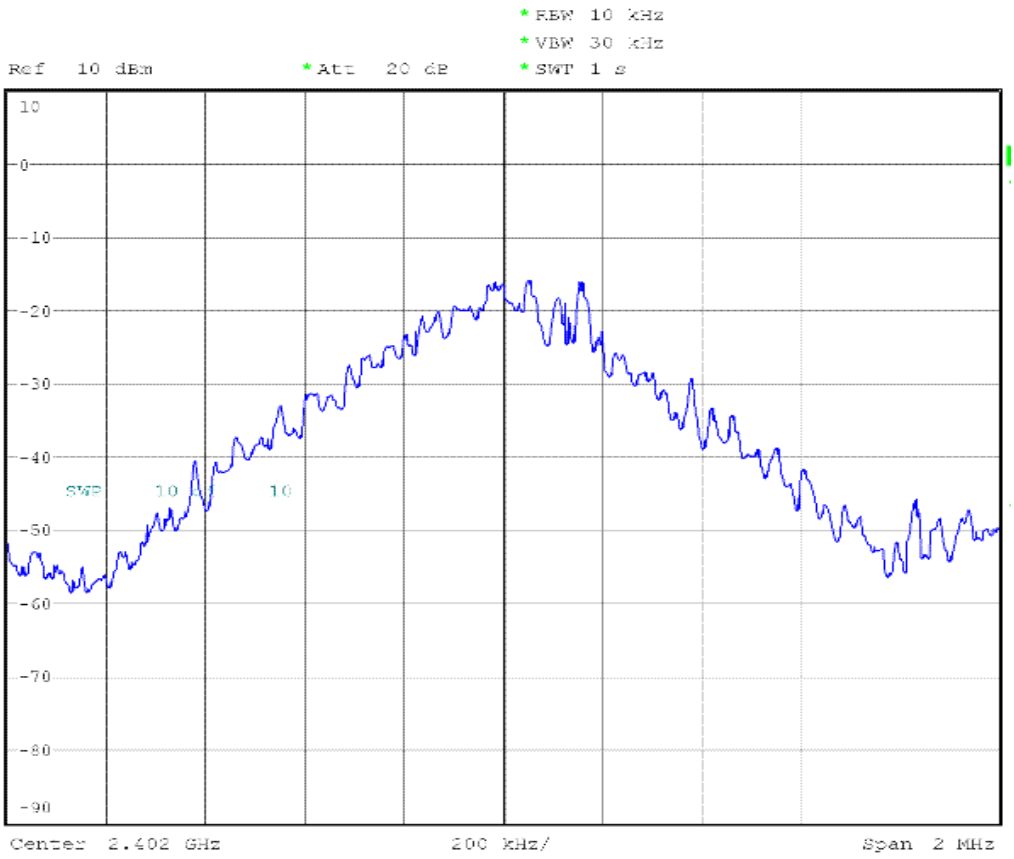
2.1.6. Test Case: TRM/CA/05/C - TX Output Spectrum - 20 dB Bandwidth

Expected Outcome:

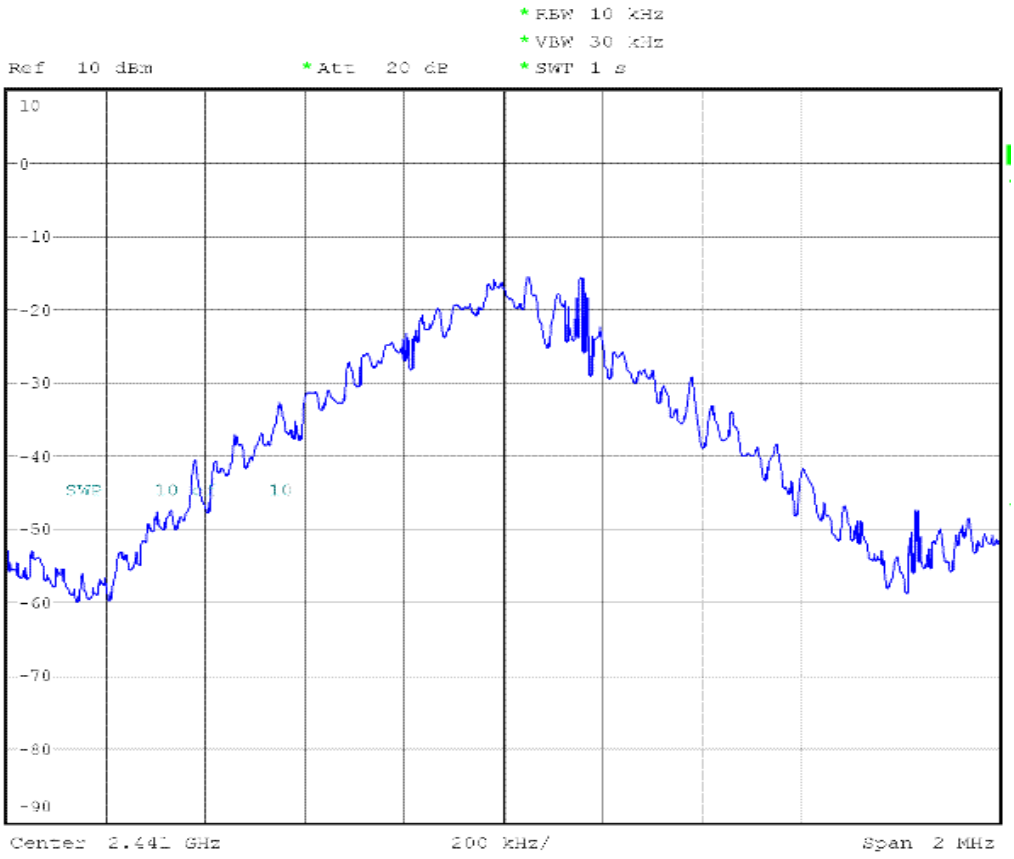
All values as measured must fulfill the following conditions:

1.The Transmit spectrum shall fulfill the following mask :Δf = |fH - fL| ≤ 1.0 MHz

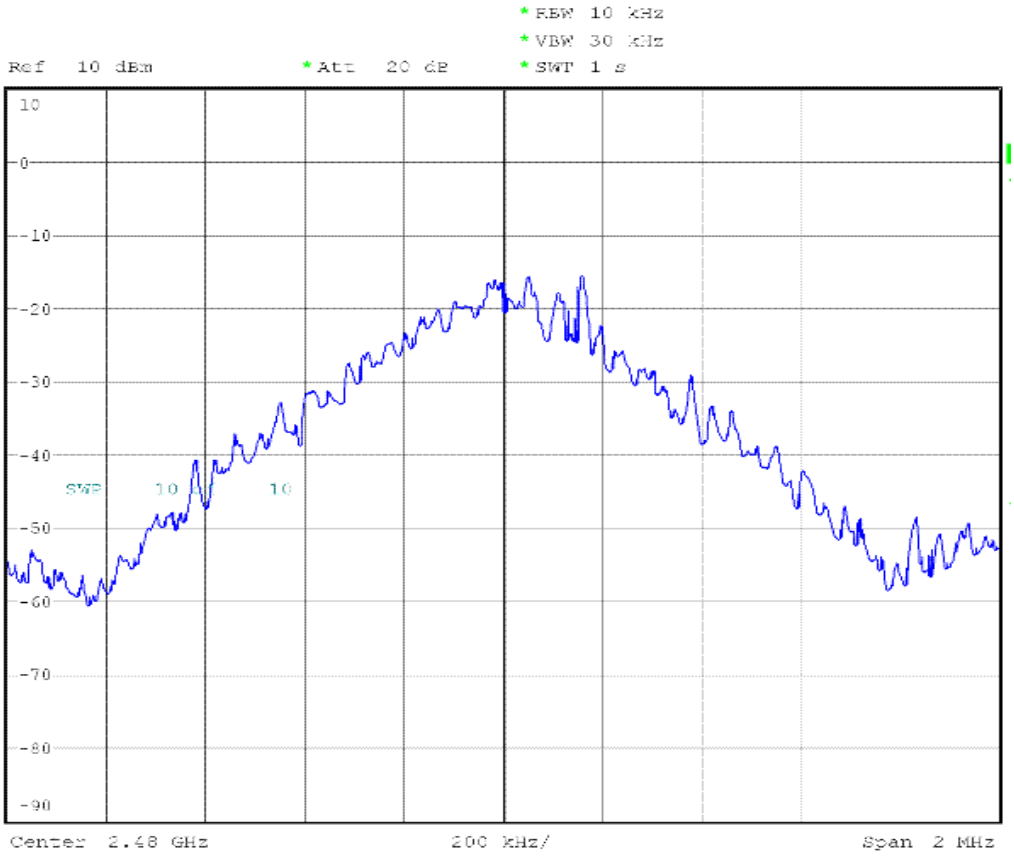
Test Frequency (MHz)		fL (MHz)	fH (MHz)	Δ f = | fH - fL | (MHz)	Limit	Verdict
Low Frequency	2402	2401.53	2402.47	0.93	≤1.0	Pass
Mid Frequency	2441	2440.59	2441.40	0.80	≤1.0	Pass
High Frequency	2480	2479.59	2480.36	0.76	≤1.0	Pass



TX Output Spectrum – 20 dB Bandwidth (Low Frequency)



TX Output Spectrum – 20 dB Bandwidth (Mid Frequency)



TX Output Spectrum – 20 dB Bandwidth (High Frequency)

2.1.7. Test Case: TRM/CA/06/C - TX Output Spectrum - Adjacent Channel Power

Expected Outcome:

All values as measured must fulfill the following conditions:

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency which is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

1. Ptx (f) ≤ – 20 dBm for ｜M-N｜= 2
2. Ptx (f) ≤ – 40 dBm for ｜M-N｜≥ 3

Test Frequency (MHz)	Adjacent Channel Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
Low Frequency (2402 MHz)	2402	-52.99	≤ -40	Pass
	2403	-44.69	≤ -20	Pass
	2404	-25.84	N/A	N/A
	2405	-0.57	N/A	N/A
	2406	-26.55	N/A	N/A
	2407	-46.07	≤ -20	Pass
	2408	-51.98	≤ -40	Pass
	2409	-60.82	≤ -40	Pass
	2410	-62.63	≤ -40	Pass
	2411	-61.80	≤ -40	Pass
	2412	-63.49	≤ -40	Pass
	2413	-61.23	≤ -40	Pass
	2414	-63.91	≤ -40	Pass
	2415	-64.41	≤ -40	Pass
	2416	-64.66	≤ -40	Pass
	2417	-64.33	≤ -40	Pass
	2418	-64.76	≤ -40	Pass
	2419	-64.87	≤ -40	Pass
	2420	-65.02	≤ -40	Pass
	2421	-61.47	≤ -40	Pass
	2422	-65.02	≤ -40	Pass
	2423	-64.90	≤ -40	Pass
	2424	-64.91	≤ -40	Pass
	2425	-64.76	≤ -40	Pass
	2426	-65.21	≤ -40	Pass

	2427	-65.29	≤ -40	Pass
	2428	-65.36	≤ -40	Pass
	2429	-65.30	≤ -40	Pass
	2430	-65.47	≤ -40	Pass
	2431	-62.39	≤ -40	Pass
	2432	-65.53	≤ -40	Pass
	2433	-65.30	≤ -40	Pass
	2434	-65.69	≤ -40	Pass
	2435	-65.63	≤ -40	Pass
	2436	-65.80	≤ -40	Pass
	2437	-64.32	≤ -40	Pass
	2438	-65.86	≤ -40	Pass
	2439	-65.67	≤ -40	Pass
	2440	-65.79	≤ -40	Pass
	2441	-65.67	≤ -40	Pass
	2442	-65.87	≤ -40	Pass
	2443	-65.83	≤ -40	Pass
	2444	-65.78	≤ -40	Pass
	2445	-65.80	≤ -40	Pass
	2446	-65.90	≤ -40	Pass
	2447	-65.76	≤ -40	Pass
	2448	-65.83	≤ -40	Pass
	2449	-65.48	≤ -40	Pass
	2450	-65.75	≤ -40	Pass
	2451	-65.79	≤ -40	Pass
	2452	-65.77	≤ -40	Pass
	2453	-65.29	≤ -40	Pass
	2454	-65.98	≤ -40	Pass
	2455	-65.40	≤ -40	Pass
	2456	-65.58	≤ -40	Pass
	2457	-65.71	≤ -40	Pass
	2458	-65.86	≤ -40	Pass
	2459	-65.72	≤ -40	Pass
	2460	-65.79	≤ -40	Pass
	2461	-65.68	≤ -40	Pass
	2462	-65.73	≤ -40	Pass
	2463	-65.79	≤ -40	Pass
	2464	-65.68	≤ -40	Pass

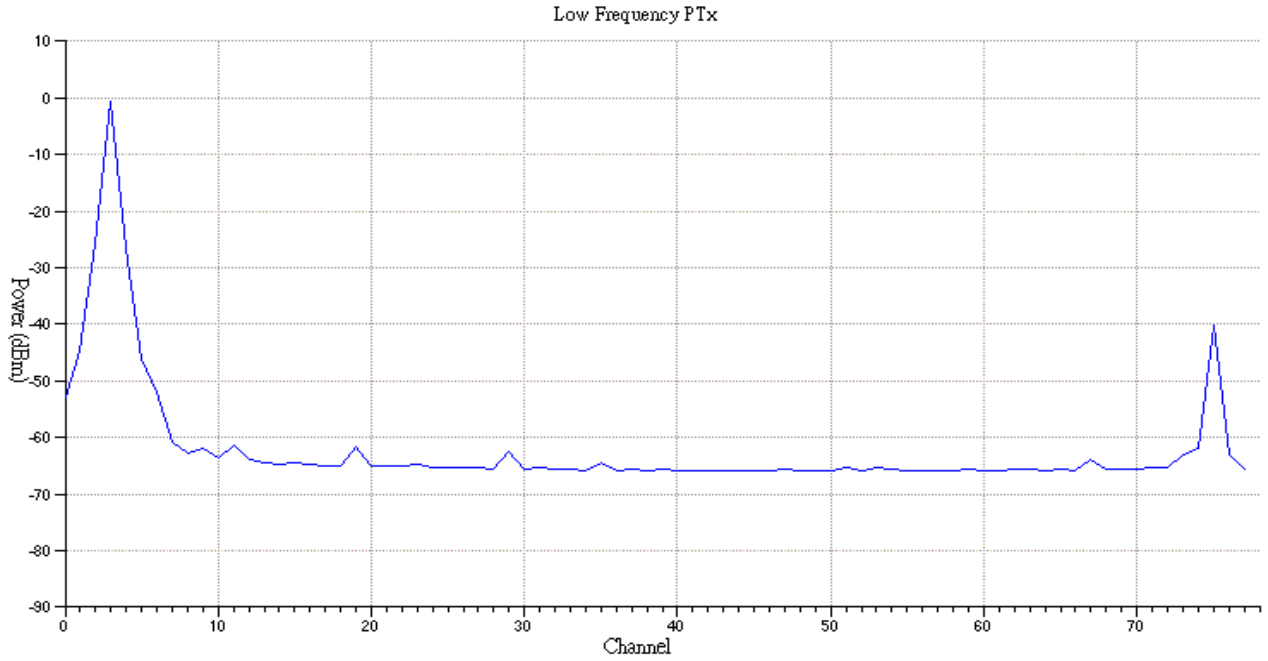
	2465	-65.54	≤ -40	Pass
	2466	-65.75	≤ -40	Pass
	2467	-65.60	≤ -40	Pass
	2468	-65.72	≤ -40	Pass
	2469	-63.92	≤ -40	Pass
	2470	-65.59	≤ -40	Pass
	2471	-65.49	≤ -40	Pass
	2472	-65.50	≤ -40	Pass
	2473	-65.30	≤ -40	Pass
	2474	-65.39	≤ -40	Pass
	2475	-63.16	≤ -40	Pass
	2476	-61.94	≤ -40	Pass
	2477	-40.09	≤ -40	Pass
	2478	-63.07	≤ -40	Pass
	2479	-65.59	≤ -40	Pass
	2480	-65.62	≤ -40	Pass
Mid Frequency (2441 MHz)	2402	-65.52	≤ -40	Pass
	2403	-63.15	≤ -40	Pass
	2404	-58.49	≤ -40	Pass
	2405	-33.38	≤ -40	Fail
	2406	-59.08	≤ -40	Pass
	2407	-65.47	≤ -40	Pass
	2408	-65.39	≤ -40	Pass
	2409	-56.27	≤ -40	Pass
	2410	-65.24	≤ -40	Pass
	2411	-65.25	≤ -40	Pass
	2412	-65.30	≤ -40	Pass
	2413	-64.81	≤ -40	Pass
	2414	-65.28	≤ -40	Pass
	2415	-61.78	≤ -40	Pass
	2416	-65.02	≤ -40	Pass
	2417	-64.62	≤ -40	Pass
	2418	-65.08	≤ -40	Pass
	2419	-65.00	≤ -40	Pass
	2420	-64.84	≤ -40	Pass
	2421	-64.27	≤ -40	Pass
	2422	-64.82	≤ -40	Pass
	2423	-64.93	≤ -40	Pass

	2424	-64.78	≤ -40	Pass
	2425	-61.47	≤ -40	Pass
	2426	-64.53	≤ -40	Pass
	2427	-64.72	≤ -40	Pass
	2428	-64.69	≤ -40	Pass
	2429	-63.17	≤ -40	Pass
	2430	-64.32	≤ -40	Pass
	2431	-63.97	≤ -40	Pass
	2432	-64.16	≤ -40	Pass
	2433	-62.88	≤ -40	Pass
	2434	-63.05	≤ -40	Pass
	2435	-58.68	≤ -40	Pass
	2436	-60.47	≤ -40	Pass
	2437	-60.50	≤ -40	Pass
	2438	-54.01	≤ -40	Pass
	2439	-45.53	≤ -20	Pass
	2440	-26.01	N/A	N/A
	2441	-0.55	N/A	N/A
	2442	-26.79	N/A	N/A
	2443	-47.06	≤ -20	Pass
	2444	-52.42	≤ -40	Pass
	2445	-59.63	≤ -40	Pass
	2446	-61.89	≤ -40	Pass
	2447	-61.93	≤ -40	Pass
	2448	-63.54	≤ -40	Pass
	2449	-63.83	≤ -40	Pass
	2450	-64.41	≤ -40	Pass
	2451	-64.11	≤ -40	Pass
	2452	-64.58	≤ -40	Pass
	2453	-64.42	≤ -40	Pass
	2454	-64.89	≤ -40	Pass
	2455	-65.01	≤ -40	Pass
	2456	-64.73	≤ -40	Pass
	2457	-61.47	≤ -40	Pass
	2458	-64.99	≤ -40	Pass
	2459	-65.07	≤ -40	Pass
	2460	-65.16	≤ -40	Pass
	2461	-64.70	≤ -40	Pass

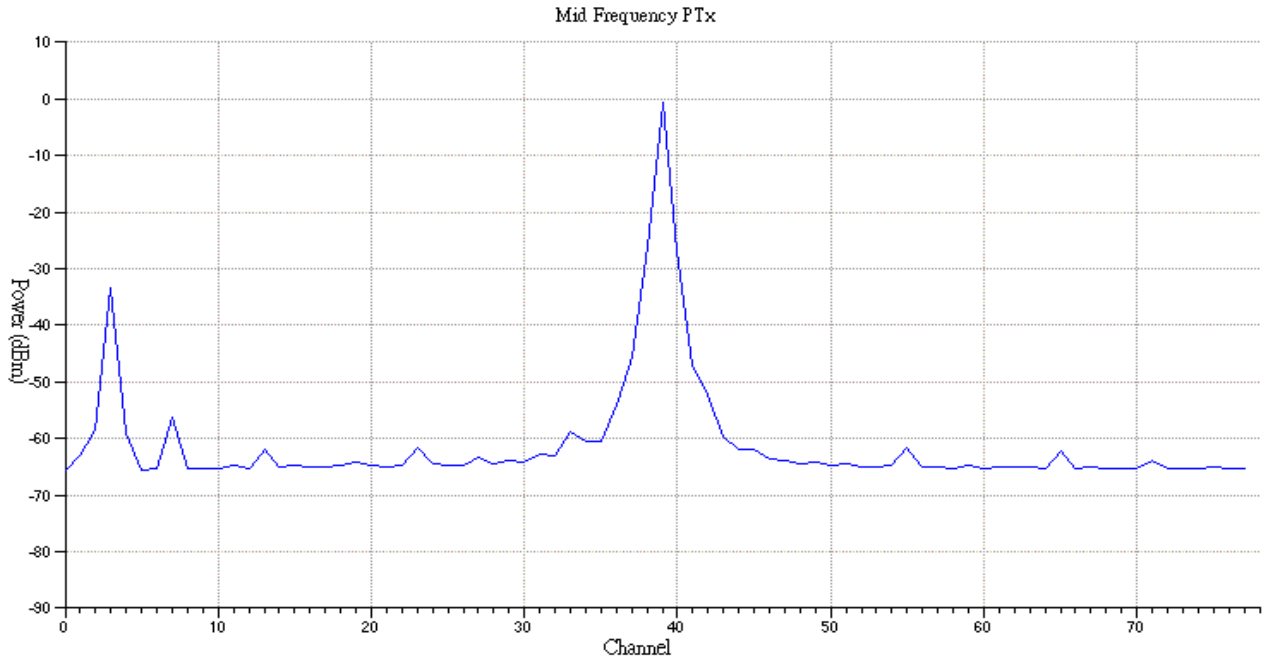
	2462	-65.15	≤ -40	Pass
	2463	-65.05	≤ -40	Pass
	2464	-65.06	≤ -40	Pass
	2465	-65.10	≤ -40	Pass
	2466	-65.23	≤ -40	Pass
	2467	-62.28	≤ -40	Pass
	2468	-65.20	≤ -40	Pass
	2469	-64.98	≤ -40	Pass
	2470	-65.26	≤ -40	Pass
	2471	-65.29	≤ -40	Pass
	2472	-65.38	≤ -40	Pass
	2473	-63.92	≤ -40	Pass
	2474	-65.32	≤ -40	Pass
	2475	-65.40	≤ -40	Pass
	2476	-65.35	≤ -40	Pass
	2477	-64.89	≤ -40	Pass
	2478	-65.29	≤ -40	Pass
	2479	-65.41	≤ -40	Pass
	2480	-65.32	≤ -40	Pass
High Frequency (2480 MHz)	2402	-65.92	≤ -40	Pass
	2403	-63.19	≤ -40	Pass
	2404	-60.27	≤ -40	Pass
	2405	-36.15	≤ -40	Fail
	2406	-61.11	≤ -40	Pass
	2407	-65.73	≤ -40	Pass
	2408	-65.91	≤ -40	Pass
	2409	-65.75	≤ -40	Pass
	2410	-65.89	≤ -40	Pass
	2411	-65.77	≤ -40	Pass
	2412	-65.69	≤ -40	Pass
	2413	-61.38	≤ -40	Pass
	2414	-65.79	≤ -40	Pass
	2415	-65.67	≤ -40	Pass
	2416	-65.75	≤ -40	Pass
	2417	-65.80	≤ -40	Pass
	2418	-65.86	≤ -40	Pass
	2419	-65.74	≤ -40	Pass
	2420	-65.99	≤ -40	Pass

	2421	-65.82	≤ -40	Pass
	2422	-65.85	≤ -40	Pass
	2423	-65.87	≤ -40	Pass
	2424	-65.78	≤ -40	Pass
	2425	-65.03	≤ -40	Pass
	2426	-65.75	≤ -40	Pass
	2427	-65.83	≤ -40	Pass
	2428	-65.82	≤ -40	Pass
	2429	-64.69	≤ -40	Pass
	2430	-65.85	≤ -40	Pass
	2431	-65.88	≤ -40	Pass
	2432	-65.84	≤ -40	Pass
	2433	-65.73	≤ -40	Pass
	2434	-65.89	≤ -40	Pass
	2435	-66.00	≤ -40	Pass
	2436	-65.83	≤ -40	Pass
	2437	-65.00	≤ -40	Pass
	2438	-65.70	≤ -40	Pass
	2439	-65.61	≤ -40	Pass
	2440	-65.66	≤ -40	Pass
	2441	-65.64	≤ -40	Pass
	2442	-65.63	≤ -40	Pass
	2443	-65.72	≤ -40	Pass
	2444	-65.55	≤ -40	Pass
	2445	-56.49	≤ -40	Pass
	2446	-65.60	≤ -40	Pass
	2447	-65.46	≤ -40	Pass
	2448	-65.49	≤ -40	Pass
	2449	-64.88	≤ -40	Pass
	2450	-65.32	≤ -40	Pass
	2451	-61.89	≤ -40	Pass
	2452	-65.24	≤ -40	Pass
	2453	-64.78	≤ -40	Pass
	2454	-65.03	≤ -40	Pass
	2455	-64.98	≤ -40	Pass
	2456	-64.94	≤ -40	Pass
	2457	-64.36	≤ -40	Pass
	2458	-64.91	≤ -40	Pass

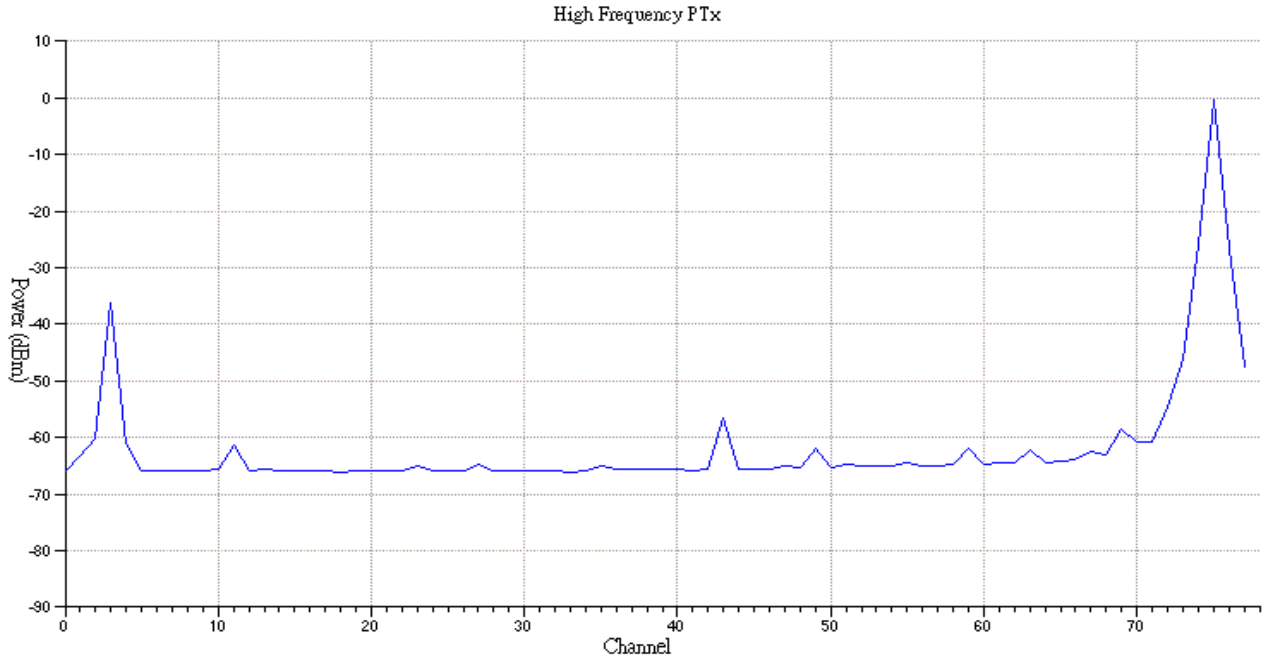
	2459	-64.86	≤ -40	Pass
	2460	-64.64	≤ -40	Pass
	2461	-62.03	≤ -40	Pass
	2462	-64.62	≤ -40	Pass
	2463	-64.36	≤ -40	Pass
	2464	-64.30	≤ -40	Pass
	2465	-62.16	≤ -40	Pass
	2466	-64.33	≤ -40	Pass
	2467	-64.16	≤ -40	Pass
	2468	-63.99	≤ -40	Pass
	2469	-62.52	≤ -40	Pass
	2470	-62.98	≤ -40	Pass
	2471	-58.43	≤ -40	Pass
	2472	-60.83	≤ -40	Pass
	2473	-60.63	≤ -40	Pass
	2474	-54.60	≤ -40	Pass
	2475	-46.05	≤ -20	Pass
	2476	-25.80	N/A	N/A
	2477	-0.32	N/A	N/A
	2478	-26.68	N/A	N/A
	2479	-47.46	≤ -20	Pass
	2480	-52.69	≤ -40	Pass



TX Output Spectrum – Adjacent channel power（Low Frequency)



TX Output Spectrum – Adjacent channel power (Mid Frequency)



TX Output Spectrum – Adjacent channel power (High Frequency)

2.1.8. Test Case: TRM/CA/07/C - Modulation Characteristics

Expected Outcome:
All values as measured must fulfill the following conditions:
1. 140 kHz ≤ Δf1avg ≤ 175 kHz
2. Δf2max ≥ 115 kHz for at least 99.9% of all Δf2max
3. Δf2avg/Δf1avg ≥ 0.8

Test Frequency (MHz)	Packet Number	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402 MHz)	1	Δ f1avg (kHz)	162.53	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	176.28	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.81	N/A	N/A
		Δ f2avg/Δf1avg	1.03	≥ 0.8	Pass
	2	Δ f1avg (kHz)	158.12	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	180.06	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.89	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	3	Δ f1avg (kHz)	162.65	140 kHz≤Δf1avg≤175 kHz	Pass

		Δ f2max (kHz)	175.84	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.31	N/A	N/A
		Δ f2avg/Δf1avg	1.02	≥ 0.8	Pass
	4	Δ f1avg (kHz)	157.54	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	177.03	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.33	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	5	Δ f1avg (kHz)	158.27	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	178.38	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	167.34	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	6	Δ f1avg (kHz)	157.85	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	175.82	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.18	N/A	N/A
		Δ f2avg/Δf1avg	1.05	≥ 0.8	Pass
	7	Δ f1avg (kHz)	158.55	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	175.51	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	167.32	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	8	Δ f1avg (kHz)	159.79	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	178.19	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	167.57	N/A	N/A
		Δ f2avg/Δf1avg	1.05	≥ 0.8	Pass
	9	Δ f1avg (kHz)	158.22	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	179.05	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	167.37	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	10	Δ f1avg (kHz)	158.28	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	176.49	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.79	N/A	N/A

		Δ f2avg/Δf1avg	1.05	≥ 0.8	Pass
Mid operating Frequency (2441 MHz)	1	Δ f1avg (kHz)	159.23	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	180.39	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	170.21	N/A	N/A
		Δ f2avg/Δf1avg	1.07	≥ 0.8	Pass
	2	Δ f1avg (kHz)	167.31	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	181.57	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	169.61	N/A	N/A
		Δ f2avg/Δf1avg	1.01	≥ 0.8	Pass
	3	Δ f1avg (kHz)	160.17	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	182.70	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	170.82	N/A	N/A
		Δ f2avg/Δf1avg	1.07	≥ 0.8	Pass
	4	Δ f1avg (kHz)	159.18	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	181.86	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	171.14	N/A	N/A
		Δ f2avg/Δf1avg	1.08	≥ 0.8	Pass
	5	Δ f1avg (kHz)	157.18	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	183.49	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	170.47	N/A	N/A
		Δ f2avg/Δf1avg	1.08	≥ 0.8	Pass
	6	Δ f1avg (kHz)	168.05	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	179.46	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	169.94	N/A	N/A
		Δ f2avg/Δf1avg	1.01	≥ 0.8	Pass
	7	Δ f1avg (kHz)	156.95	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	180.46	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	169.69	N/A	N/A
		Δ f2avg/Δf1avg	1.08	≥ 0.8	Pass
	8	Δ f1avg (kHz)	162.13	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	182.41	≥ 115 kHz	Pass

		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	171.10	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	9	Δ f1avg (kHz)	160.22	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	183.14	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	171.22	N/A	N/A
		Δ f2avg/Δf1avg	1.07	≥ 0.8	Pass
	10	Δ f1avg (kHz)	158.27	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	179.61	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	169.37	N/A	N/A
		Δ f2avg/Δf1avg	1.07	≥ 0.8	Pass
High operating Frequency (2480 MHz)	1	Δ f1avg (kHz)	157.44	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	181.74	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	172.28	N/A	N/A
		Δ f2avg/Δf1avg	1.09	≥ 0.8	Pass
	2	Δ f1avg (kHz)	165.31	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	180.25	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	171.66	N/A	N/A
		Δ f2avg/Δf1avg	1.04	≥ 0.8	Pass
	3	Δ f1avg (kHz)	157.10	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	182.85	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	171.97	N/A	N/A
		Δ f2avg/Δf1avg	1.09	≥ 0.8	Pass
	4	Δ f1avg (kHz)	162.72	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	182.71	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	172.36	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	5	Δ f1avg (kHz)	156.03	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	182.05	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	172.07	N/A	N/A
		Δ f2avg/Δf1avg	1.1	≥ 0.8	Pass

	6	Δ f1avg (kHz)	157.26	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	181.48	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	171.72	N/A	N/A
		Δ f2avg/Δf1avg	1.09	≥ 0.8	Pass
	7	Δ f1avg (kHz)	161.04	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	182.00	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	172.10	N/A	N/A
		Δ f2avg/Δf1avg	1.07	≥ 0.8	Pass
	8	Δ f1avg (kHz)	157.08	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	185.53	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	173.60	N/A	N/A
		Δ f2avg/Δf1avg	1.11	≥ 0.8	Pass
	9	Δ f1avg (kHz)	165.95	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	181.57	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	172.24	N/A	N/A
		Δ f2avg/Δf1avg	1.04	≥ 0.8	Pass
	10	Δ f1avg (kHz)	156.91	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	183.87	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	172.48	N/A	N/A
		Δ f2avg/Δf1avg	1.1	≥ 0.8	Pass

2.1.9. Test Case: TRM/CA/08/C - Initial Carrier Frequency Tolerance

Expected Outcome:

All values as measured must fulfill the following conditions:

Each of the EUT's carrier frequency f0 as measured must be within ±75kHz from the Eut's chosen nominal carrier frequency fTX

1. fTX – 75 kHz ≤ f 0 ≤ fTX + 75 kHz.

Test Frequency (MHz)	Packets No.	Carrier Frequency (KHz)	Limit (kHz)	Verdict
Low operating Frequency (2402 MHz)	1	-3.28	-75≤ f0 ≤ +75	Pass
	2	-6.03	-75≤ f0 ≤ +75	Pass
	3	-3.49	-75≤ f0 ≤ +75	Pass
	4	-8.16	-75≤ f0 ≤ +75	Pass
	5	-9.03	-75≤ f0 ≤ +75	Pass
	6	1.40	-75≤ f0 ≤ +75	Pass
	7	-4.22	-75≤ f0 ≤ +75	Pass
	8	0.38	-75≤ f0 ≤ +75	Pass
	9	1.14	-75≤ f0 ≤ +75	Pass
	10	0.71	-75≤ f0 ≤ +75	Pass
Mid operating Frequency (2441 MHz)	1	-2.96	-75≤ f0 ≤ +75	Pass
	2	-10.88	-75≤ f0 ≤ +75	Pass
	3	-1.47	-75≤ f0 ≤ +75	Pass
	4	-8.76	-75≤ f0 ≤ +75	Pass
	5	0.50	-75≤ f0 ≤ +75	Pass
	6	-6.32	-75≤ f0 ≤ +75	Pass
	7	-3.91	-75≤ f0 ≤ +75	Pass
	8	0.41	-75≤ f0 ≤ +75	Pass
	9	-1.16	-75≤ f0 ≤ +75	Pass
	10	-3.49	-75≤ f0 ≤ +75	Pass
High operating Frequency (2480 MHz)	1	-6.02	-75≤ f0 ≤ +75	Pass
	2	-1.93	-75≤ f0 ≤ +75	Pass
	3	-0.37	-75≤ f0 ≤ +75	Pass
	4	-5.36	-75≤ f0 ≤ +75	Pass
	5	-3.02	-75≤ f0 ≤ +75	Pass
	6	-3.14	-75≤ f0 ≤ +75	Pass
	7	-1.92	-75≤ f0 ≤ +75	Pass
	8	-3.75	-75≤ f0 ≤ +75	Pass

	9	-12.41	-75≤ f0 ≤ +75	Pass
	10	-7.99	-75≤ f0 ≤ +75	Pass

2.1.10. Test Case: TRM/CA/09/C - Carrier Frequency Drift

Expected Outcome:

All values as measured must fulfill the following conditions:

1. One slot packet -25kHz≤ MAX Frequency Drift ≤+25kHz
2. Three slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
3. Five slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
4. The maximum drift rate is 20000 Hz / 50μs.

Packet Type: DH1

Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	-4.88	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.81	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-4.03	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.87	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	4.61	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	5.33	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	4.01	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	4.85	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-3.52	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.47	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	3.93	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.77	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-3.27	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	3.78	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	3.31	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.84	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	4.62	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.03	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	3.78	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	4.25	≤ 20	Pass
Mid operating Frequency	1	MAX Frequency Drift(kHz)	3.10	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.45	≤ 20	Pass

(2441 MHz)	2	MAX Frequency Drift(kHz)	-4.88	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.03	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	2.69	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.38	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	5.51	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	5.26	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	2.31	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.63	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	4.84	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.22	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	4.72	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.83	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	4.78	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.82	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	5.62	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	7.91	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	5.91	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.29	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-4.70	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.10	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	4.44	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.76	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-4.35	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	5.28	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-8.58	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	12.67	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	4.89	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	6.62	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-6.05	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	7.60	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.62	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	7.56	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	4.55	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.17	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	4.64	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.98	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	5.88	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.89	≤ 20	Pass

Packet Type: DH3					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	5.59	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.39	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	4.97	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.94	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	4.34	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	5.46	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	5.26	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	7.65	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	3.78	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	4.66	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	4.24	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	8.05	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	3.76	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	5.63	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.41	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.17	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-4.44	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.32	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	5.07	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	6.02	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	-5.12	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	7.60	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.30	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.28	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	4.89	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	7.02	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-8.45	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	8.94	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.35	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	7.59	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.98	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	7.62	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-7.17	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	9.36	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-8.79	-25≤ fmax≤+25	Pass

	8	Maximum Drift Rate(kHz/50μs)	11.78	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-7.55	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	8.29	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-5.10	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	6.32	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	4.29	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.41	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.38	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.03	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-6.46	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.46	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-5.52	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.86	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.09	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	6.98	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	3.93	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	6.34	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-5.11	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.69	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	6.04	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	6.57	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.09	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.71	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-8.15	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	12.04	≤ 20	Pass
Packet Type: DH5					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	4.24	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.08	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-6.47	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	6.41	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-4.74	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	7.79	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-4.85	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	5.82	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.08	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	6.42	≤ 20	Pass

	6	MAX Frequency Drift(kHz)	4.72	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	6.73	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	4.44	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	5.75	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.00	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	7.03	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	4.66	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	7.71	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.01	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	8.57	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	6.76	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.07	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-6.18	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.03	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-11.11	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	11.10	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-5.49	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.42	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	7.07	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	7.92	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	5.45	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	5.66	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	6.57	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	7.51	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	5.56	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	8.37	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.87	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.63	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	5.94	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	7.09	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	5.69	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.39	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.06	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	6.89	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-11.27	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	13.44	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-4.73	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.13	≤ 20	Pass

	5	MAX Frequency Drift(kHz)	6.70	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	8.00	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	5.67	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	6.65	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-6.49	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	9.11	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	4.92	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	7.02	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-9.06	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	9.53	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-5.12	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	7.41	≤ 20	Pass

2.1.11. Test Case: RCV/CA/01/C - Sensitivity - Single Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.)

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

2.1.12. Test Case: RCV/CA/02/C - Sensitivity - Multi-Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

2.1.13. Test Case: RCV/CA/03/C - C/I Performance

Expected Outcome:

All values as measured must fulfill the following conditions:

BER ≤ 0.1 %

Frequencies where the requirements are not met are called spurious response frequencies. For each RX frequency five spurious response frequencies are allowed at frequencies with a distance of ≥ 2 MHz from the wanted signal. On these spurious response frequencies a relaxed interference requirement C/I = -17 dB must be met.

The image frequency = -3 MHz

Test Frequency (MHz)	Wanted Level (dBm)	Interference Frequency (MHz)	Interference Level (dBm)	C/I (dB)	BER (%)	Limit (%)	Verdict
2405	-67	2402	-27	-40	0.00	≤0.1	Pass
2405	-60	2403	-30	-30	5.16	≤0.1	Fail
2405	-60	2404	-60	0	0.00	≤0.1	Pass
2405	-60	2405	-71	11	0.00	≤0.1	Pass
2405	-60	2406	-60	0	0.00	≤0.1	Pass
2405	-67	2407	-47	-20	0.00	≤0.1	Pass
2405	-67	2408	-58	-9	0.00	≤0.1	Pass
2405	-67	2409	-47	-20	0.00	≤0.1	Pass
2405	-67	2410	-27	-40	0.00	≤0.1	Pass
2405	-67	2411	-27	-40	0.00	≤0.1	Pass
2405	-67	2412	-27	-40	0.00	≤0.1	Pass
2405	-67	2413	-27	-40	0.00	≤0.1	Pass
2405	-67	2414	-27	-40	0.00	≤0.1	Pass
2405	-67	2415	-27	-40	0.00	≤0.1	Pass
2405	-67	2416	-27	-40	0.00	≤0.1	Pass
2405	-67	2417	-27	-40	0.00	≤0.1	Pass
2405	-67	2418	-27	-40	0.00	≤0.1	Pass
2405	-67	2419	-27	-40	0.00	≤0.1	Pass
2405	-67	2420	-27	-40	0.00	≤0.1	Pass
2405	-67	2421	-27	-40	0.00	≤0.1	Pass
2405	-67	2422	-27	-40	0.00	≤0.1	Pass
2405	-67	2423	-27	-40	0.00	≤0.1	Pass
2405	-67	2424	-27	-40	0.00	≤0.1	Pass
2405	-67	2425	-27	-40	0.00	≤0.1	Pass

2405	-67	2426	-27	-40	0.00	≤0.1	Pass
2405	-67	2427	-27	-40	0.00	≤0.1	Pass
2405	-67	2428	-27	-40	0.00	≤0.1	Pass
2405	-67	2429	-27	-40	0.00	≤0.1	Pass
2405	-67	2430	-27	-40	0.00	≤0.1	Pass
2405	-67	2431	-27	-40	0.00	≤0.1	Pass
2405	-67	2432	-27	-40	0.00	≤0.1	Pass
2405	-67	2433	-27	-40	0.00	≤0.1	Pass
2405	-67	2434	-27	-40	0.00	≤0.1	Pass
2405	-67	2435	-27	-40	0.00	≤0.1	Pass
2405	-67	2436	-27	-40	0.00	≤0.1	Pass
2405	-67	2437	-27	-40	0.00	≤0.1	Pass
2405	-67	2438	-27	-40	0.00	≤0.1	Pass
2405	-67	2439	-27	-40	0.00	≤0.1	Pass
2405	-67	2440	-27	-40	0.00	≤0.1	Pass
2405	-67	2441	-27	-40	0.00	≤0.1	Pass
2405	-67	2442	-27	-40	0.00	≤0.1	Pass
2405	-67	2443	-27	-40	0.00	≤0.1	Pass
2405	-67	2444	-27	-40	0.00	≤0.1	Pass
2405	-67	2445	-27	-40	0.00	≤0.1	Pass
2405	-67	2446	-27	-40	0.00	≤0.1	Pass
2405	-67	2447	-27	-40	0.00	≤0.1	Pass
2405	-67	2448	-27	-40	0.00	≤0.1	Pass
2405	-67	2449	-27	-40	0.00	≤0.1	Pass
2405	-67	2450	-27	-40	0.00	≤0.1	Pass
2405	-67	2451	-27	-40	0.00	≤0.1	Pass
2405	-67	2452	-27	-40	0.00	≤0.1	Pass
2405	-67	2453	-27	-40	0.00	≤0.1	Pass
2405	-67	2454	-27	-40	0.00	≤0.1	Pass
2405	-67	2455	-27	-40	0.00	≤0.1	Pass
2405	-67	2456	-27	-40	0.00	≤0.1	Pass
2405	-67	2457	-27	-40	0.00	≤0.1	Pass
2405	-67	2458	-27	-40	0.00	≤0.1	Pass
2405	-67	2459	-27	-40	0.00	≤0.1	Pass
2405	-67	2460	-27	-40	0.00	≤0.1	Pass
2405	-67	2461	-27	-40	0.00	≤0.1	Pass
2405	-67	2462	-27	-40	0.00	≤0.1	Pass
2405	-67	2463	-27	-40	0.00	≤0.1	Pass

2405	-67	2464	-27	-40	0.00	≤0.1	Pass
2405	-67	2465	-27	-40	0.00	≤0.1	Pass
2405	-67	2466	-27	-40	0.00	≤0.1	Pass
2405	-67	2467	-27	-40	0.00	≤0.1	Pass
2405	-67	2468	-27	-40	0.00	≤0.1	Pass
2405	-67	2469	-27	-40	0.00	≤0.1	Pass
2405	-67	2470	-27	-40	0.00	≤0.1	Pass
2405	-67	2471	-27	-40	0.00	≤0.1	Pass
2405	-67	2472	-27	-40	0.00	≤0.1	Pass
2405	-67	2473	-27	-40	0.00	≤0.1	Pass
2405	-67	2474	-27	-40	0.00	≤0.1	Pass
2405	-67	2475	-27	-40	0.00	≤0.1	Pass
2405	-67	2476	-27	-40	0.00	≤0.1	Pass
2405	-67	2477	-27	-40	0.00	≤0.1	Pass
2405	-67	2478	-27	-40	0.00	≤0.1	Pass
2405	-67	2479	-27	-40	0.00	≤0.1	Pass
2405	-67	2480	-27	-40	0.00	≤0.1	Pass
2441	-67	2402	-27	-40	0.00	≤0.1	Pass
2441	-67	2403	-27	-40	0.00	≤0.1	Pass
2441	-67	2404	-27	-40	0.00	≤0.1	Pass
2441	-67	2405	-27	-40	0.00	≤0.1	Pass
2441	-67	2406	-27	-40	0.00	≤0.1	Pass
2441	-67	2407	-27	-40	0.00	≤0.1	Pass
2441	-67	2408	-27	-40	0.00	≤0.1	Pass
2441	-67	2409	-27	-40	0.00	≤0.1	Pass
2441	-67	2410	-27	-40	0.00	≤0.1	Pass
2441	-67	2411	-27	-40	0.00	≤0.1	Pass
2441	-67	2412	-27	-40	0.00	≤0.1	Pass
2441	-67	2413	-27	-40	0.00	≤0.1	Pass
2441	-67	2414	-27	-40	0.00	≤0.1	Pass
2441	-67	2415	-27	-40	0.00	≤0.1	Pass
2441	-67	2416	-27	-40	0.00	≤0.1	Pass
2441	-67	2417	-27	-40	0.00	≤0.1	Pass
2441	-67	2418	-27	-40	0.00	≤0.1	Pass
2441	-67	2419	-27	-40	0.00	≤0.1	Pass
2441	-67	2420	-27	-40	0.00	≤0.1	Pass
2441	-67	2421	-27	-40	0.00	≤0.1	Pass
2441	-67	2422	-27	-40	0.00	≤0.1	Pass

2441	-67	2423	-27	-40	0.00	≤0.1	Pass
2441	-67	2424	-27	-40	0.00	≤0.1	Pass
2441	-67	2425	-27	-40	0.00	≤0.1	Pass
2441	-67	2426	-27	-40	0.00	≤0.1	Pass
2441	-67	2427	-27	-40	0.00	≤0.1	Pass
2441	-67	2428	-27	-40	0.00	≤0.1	Pass
2441	-67	2429	-27	-40	0.00	≤0.1	Pass
2441	-67	2430	-27	-40	0.00	≤0.1	Pass
2441	-67	2431	-27	-40	0.00	≤0.1	Pass
2441	-67	2432	-27	-40	0.00	≤0.1	Pass
2441	-67	2433	-27	-40	0.00	≤0.1	Pass
2441	-67	2434	-27	-40	0.00	≤0.1	Pass
2441	-67	2435	-27	-40	0.00	≤0.1	Pass
2441	-67	2436	-27	-40	0.00	≤0.1	Pass
2441	-67	2437	-27	-40	0.14	≤0.1	Fail
2441	-67	2438	-27	-40	100.00	≤0.1	Fail
2441	-60	2439	-30	-30	7.66	≤0.1	Fail
2441	-60	2440	-60	0	0.00	≤0.1	Pass
2441	-60	2441	-71	11	0.00	≤0.1	Pass
2441	-60	2442	-60	0	0.00	≤0.1	Pass
2441	-67	2443	-47	-20	0.00	≤0.1	Pass
2441	-67	2444	-58	-9	0.00	≤0.1	Pass
2441	-67	2445	-47	-20	0.00	≤0.1	Pass
2441	-67	2446	-27	-40	0.00	≤0.1	Pass
2441	-67	2447	-27	-40	0.00	≤0.1	Pass
2441	-67	2448	-27	-40	0.00	≤0.1	Pass
2441	-67	2449	-27	-40	0.00	≤0.1	Pass
2441	-67	2450	-27	-40	0.00	≤0.1	Pass
2441	-67	2451	-27	-40	0.00	≤0.1	Pass
2441	-67	2452	-27	-40	0.00	≤0.1	Pass
2441	-67	2453	-27	-40	0.00	≤0.1	Pass
2441	-67	2454	-27	-40	0.00	≤0.1	Pass
2441	-67	2455	-27	-40	0.00	≤0.1	Pass
2441	-67	2456	-27	-40	0.00	≤0.1	Pass
2441	-67	2457	-27	-40	0.00	≤0.1	Pass
2441	-67	2458	-27	-40	0.00	≤0.1	Pass
2441	-67	2459	-27	-40	0.00	≤0.1	Pass
2441	-67	2460	-27	-40	0.00	≤0.1	Pass

2441	-67	2461	-27	-40	0.00	≤0.1	Pass
2441	-67	2462	-27	-40	0.00	≤0.1	Pass
2441	-67	2463	-27	-40	0.00	≤0.1	Pass
2441	-67	2464	-27	-40	0.00	≤0.1	Pass
2441	-67	2465	-27	-40	0.00	≤0.1	Pass
2441	-67	2466	-27	-40	0.00	≤0.1	Pass
2441	-67	2467	-27	-40	0.00	≤0.1	Pass
2441	-67	2468	-27	-40	0.00	≤0.1	Pass
2441	-67	2469	-27	-40	0.00	≤0.1	Pass
2441	-67	2470	-27	-40	0.00	≤0.1	Pass
2441	-67	2471	-27	-40	0.00	≤0.1	Pass
2441	-67	2472	-27	-40	0.00	≤0.1	Pass
2441	-67	2473	-27	-40	0.00	≤0.1	Pass
2441	-67	2474	-27	-40	0.00	≤0.1	Pass
2441	-67	2475	-27	-40	0.00	≤0.1	Pass
2441	-67	2476	-27	-40	0.00	≤0.1	Pass
2441	-67	2477	-27	-40	0.00	≤0.1	Pass
2441	-67	2478	-27	-40	0.00	≤0.1	Pass
2441	-67	2479	-27	-40	0.00	≤0.1	Pass
2441	-67	2480	-27	-40	0.00	≤0.1	Pass
2477	-67	2402	-27	-40	0.00	≤0.1	Pass
2477	-67	2403	-27	-40	0.00	≤0.1	Pass
2477	-67	2404	-27	-40	0.00	≤0.1	Pass
2477	-67	2405	-27	-40	0.00	≤0.1	Pass
2477	-67	2406	-27	-40	0.00	≤0.1	Pass
2477	-67	2407	-27	-40	0.00	≤0.1	Pass
2477	-67	2408	-27	-40	0.00	≤0.1	Pass
2477	-67	2409	-27	-40	0.00	≤0.1	Pass
2477	-67	2410	-27	-40	0.00	≤0.1	Pass
2477	-67	2411	-27	-40	0.00	≤0.1	Pass
2477	-67	2412	-27	-40	0.00	≤0.1	Pass
2477	-67	2413	-27	-40	0.00	≤0.1	Pass
2477	-67	2414	-27	-40	0.00	≤0.1	Pass
2477	-67	2415	-27	-40	0.00	≤0.1	Pass
2477	-67	2416	-27	-40	0.00	≤0.1	Pass
2477	-67	2417	-27	-40	0.00	≤0.1	Pass
2477	-67	2418	-27	-40	0.00	≤0.1	Pass
2477	-67	2419	-27	-40	0.00	≤0.1	Pass

2477	-67	2420	-27	-40	0.00	≤0.1	Pass
2477	-67	2421	-27	-40	0.00	≤0.1	Pass
2477	-67	2422	-27	-40	0.00	≤0.1	Pass
2477	-67	2423	-27	-40	0.00	≤0.1	Pass
2477	-67	2424	-27	-40	0.00	≤0.1	Pass
2477	-67	2425	-27	-40	0.00	≤0.1	Pass
2477	-67	2426	-27	-40	0.00	≤0.1	Pass
2477	-67	2427	-27	-40	0.00	≤0.1	Pass
2477	-67	2428	-27	-40	0.00	≤0.1	Pass
2477	-67	2429	-27	-40	0.00	≤0.1	Pass
2477	-67	2430	-27	-40	0.00	≤0.1	Pass
2477	-67	2431	-27	-40	0.00	≤0.1	Pass
2477	-67	2432	-27	-40	0.00	≤0.1	Pass
2477	-67	2433	-27	-40	0.00	≤0.1	Pass
2477	-67	2434	-27	-40	0.00	≤0.1	Pass
2477	-67	2435	-27	-40	0.00	≤0.1	Pass
2477	-67	2436	-27	-40	0.00	≤0.1	Pass
2477	-67	2437	-27	-40	0.00	≤0.1	Pass
2477	-67	2438	-27	-40	0.00	≤0.1	Pass
2477	-67	2439	-27	-40	0.00	≤0.1	Pass
2477	-67	2440	-27	-40	0.00	≤0.1	Pass
2477	-67	2441	-27	-40	0.00	≤0.1	Pass
2477	-67	2442	-27	-40	0.00	≤0.1	Pass
2477	-67	2443	-27	-40	0.00	≤0.1	Pass
2477	-67	2444	-27	-40	0.00	≤0.1	Pass
2477	-67	2445	-27	-40	0.00	≤0.1	Pass
2477	-67	2446	-27	-40	0.00	≤0.1	Pass
2477	-67	2447	-27	-40	0.00	≤0.1	Pass
2477	-67	2448	-27	-40	0.00	≤0.1	Pass
2477	-67	2449	-27	-40	0.00	≤0.1	Pass
2477	-67	2450	-27	-40	0.00	≤0.1	Pass
2477	-67	2451	-27	-40	0.00	≤0.1	Pass
2477	-67	2452	-27	-40	0.00	≤0.1	Pass
2477	-67	2453	-27	-40	0.00	≤0.1	Pass
2477	-67	2454	-27	-40	0.00	≤0.1	Pass
2477	-67	2455	-27	-40	0.00	≤0.1	Pass
2477	-67	2456	-27	-40	0.00	≤0.1	Pass
2477	-67	2457	-27	-40	0.00	≤0.1	Pass

2477	-67	2458	-27	-40	0.00	≤0.1	Pass
2477	-67	2459	-27	-40	0.00	≤0.1	Pass
2477	-67	2460	-27	-40	0.00	≤0.1	Pass
2477	-67	2461	-27	-40	0.00	≤0.1	Pass
2477	-67	2462	-27	-40	0.00	≤0.1	Pass
2477	-67	2463	-27	-40	0.00	≤0.1	Pass
2477	-67	2464	-27	-40	0.00	≤0.1	Pass
2477	-67	2465	-27	-40	0.00	≤0.1	Pass
2477	-67	2466	-27	-40	0.00	≤0.1	Pass
2477	-67	2467	-27	-40	0.00	≤0.1	Pass
2477	-67	2468	-27	-40	0.00	≤0.1	Pass
2477	-67	2469	-27	-40	0.00	≤0.1	Pass
2477	-67	2470	-27	-40	0.00	≤0.1	Pass
2477	-67	2471	-27	-40	0.00	≤0.1	Pass
2477	-67	2472	-27	-40	0.00	≤0.1	Pass
2477	-67	2473	-27	-40	0.14	≤0.1	Fail
2477	-67	2474	-27	-40	100.00	≤0.1	Fail
2477	-60	2475	-30	-30	2.11	≤0.1	Fail
2477	-60	2476	-60	0	0.00	≤0.1	Pass
2477	-60	2477	-71	11	0.00	≤0.1	Pass
2477	-60	2478	-60	0	0.00	≤0.1	Pass
2477	-67	2479	-47	-20	0.00	≤0.1	Pass
2477	-67	2480	-58	-9	0.00	≤0.1	Pass
Relaxed							
2441	-67	2437	-50	-17	0.00	≤0.1	Pass
2441	-67	2438	-50	-17	0.00	≤0.1	Pass
2441	-67	2439	-50	-17	0.00	≤0.1	Pass
2477	-67	2473	-50	-17	0.00	≤0.1	Pass
2477	-67	2474	-50	-17	0.00	≤0.1	Pass
2477	-67	2475	-50	-17	0.00	≤0.1	Pass

2.1.14. Test Case: RCV/CA/04/C - Blocking Performance

Expected Outcome:

All values as measured must fulfill the following conditions:

1. At step1 BER ≤ 0.1% (Minimum number of samples, 100,000 returned payload bits.)
   If BER is measured to be >0.1% the frequency of the blocking signal is recorded.
2. At step2 BER ≤ 0.1% (Minimum number of samples, 1,600,000 returned payload bits.)
   If BER is measured to be >0.1% the frequency of the blocking signal is recorded.
3. At step3 BER ≤ 0.1% (Minimum number of samples, 1,600,000 returned payload bits.)
   If BER is measured to be >0.1% the frequency of the blocking signal is recorded.

The number of frequencies recorded in step 2 must not exceed 24 and the number of frequencies recorded in step 3 must not exceed 5 .

Step 1

Test Frequency (MHz)	Wanted (dBm)	Interfering (dBm)	BER (%)	Limit (%)	Verdict
1230	-67	-8	100.00	≤0.1	Fail

Step 2

Test Frequency (MHz)	Wanted (dBm)	Interfering (dBm)	BER (%)	Limit (%)	Verdict
1230	-67	-10	100.00	≤0.1	Fail

Step 3

30 MHz ~ 12750 MHz Over all Verdict is Pass

2.1.15. Test Case: RCV/CA/05/C - Intermodulation Performance

Expected Outcome:
All values as measured must fulfill the following conditions.
1.BER ≤ 0.1%

TX=RX Frequency (MHz)	Wanted (dBm)	f1 Frequency (MHz)	CW (dBm)	f2 Frequency (MHz)	BT (dBm)	BER (%)	Limit (%)	Verdict
2402	-64	2407	-39	2412	-39	0.00	≤0.1	Pass
2441		2436		2431		0.00	≤0.1	Pass
2441		2446		2451		0.00	≤0.1	Pass
2480		2475		2470		0.00	≤0.1	Pass

2.1.16. Test Case: RCV/CA/06/C - Maximum Input Level

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.)

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

2.2. Test Case List for High Temperature

2.2.1. RF Description

EUT Power Class	Class 2
EUT Antenna Gain	0 dBi
Test Condition	High Temperature
EUT To Spectrum Loss (Low)	8.82
EUT To Spectrum Loss (Mid)	8.55
EUT To Spectrum Loss (High)	8.83

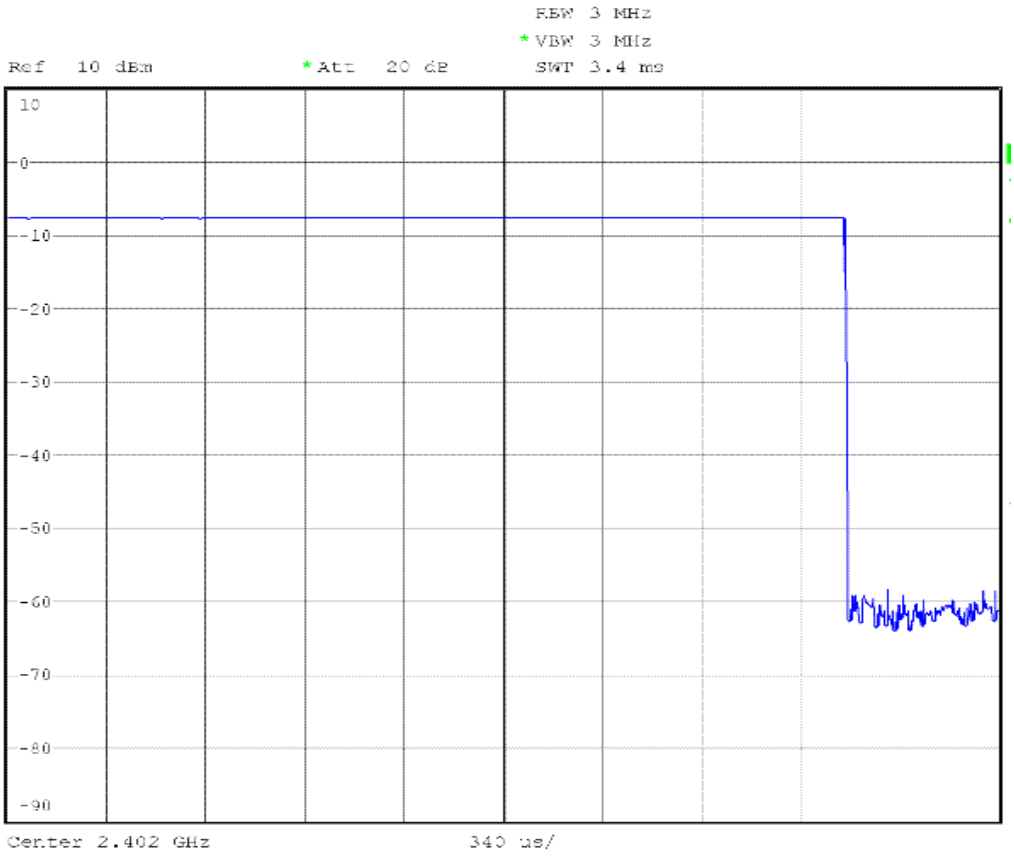
2.2.2. Test Case: TRM/CA/01/C - Output Power

Expected Outcome:

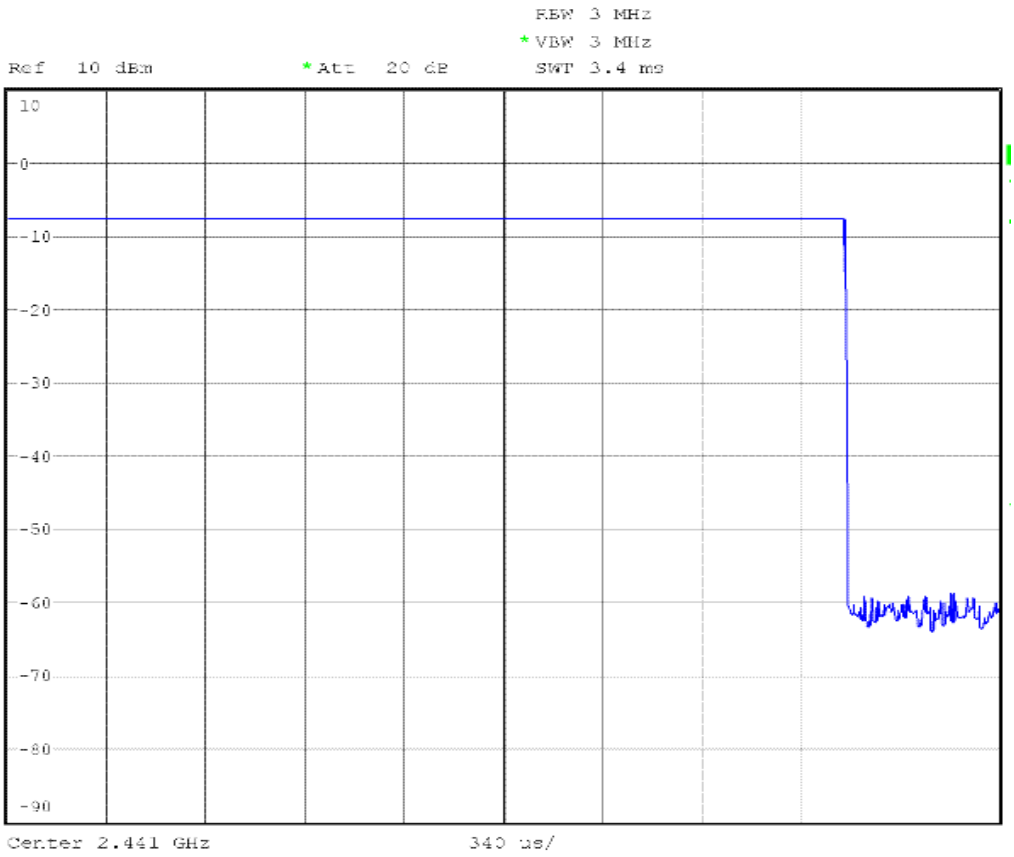
All values as measured must fulfill the following conditions:

1. P av < 100mW (20 dBm) EIRP
2. P pk < 200mW (23 dBm) EIRP
3. If the EUT is a power class 1 equipment :P av > 1mW (0dBm)
4. If the EUT is a power class 2 equipment :0.25mW (-6 dBm) < P av < 2.5mW (4dBm)
5. If the EUT is a power class 3 equipment :P av < 1mW (0dBm)

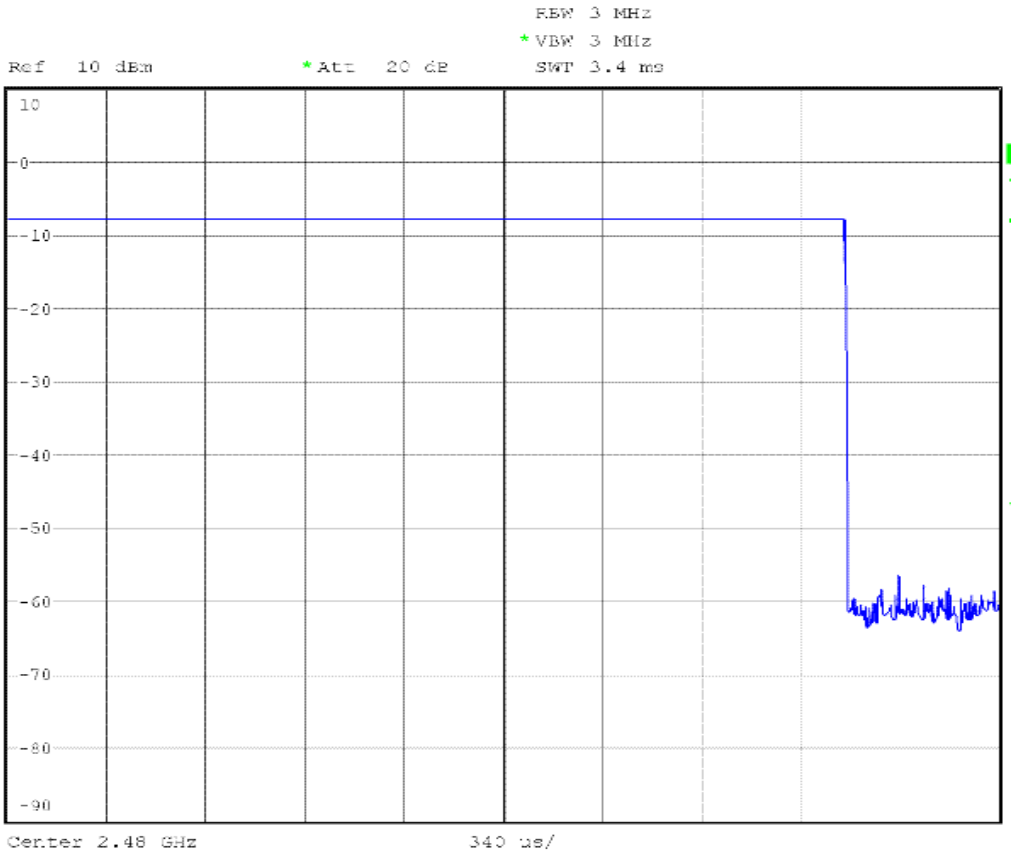
Test Frequency	Item	Value(dBm)	Verdict
Low operating frequency (2402MHz)	Peak Power	1.05	N/A
	Average Power	1.02	Pass
	Peak Power (EIRP)	1.05	Pass
	Average Power (EIRP)	1.02	Pass
Mid operating frequency (2441MHz)	Peak Power	0.87	N/A
	Average Power	0.83	Pass
	Peak Power (EIRP)	0.87	Pass
	Average Power (EIRP)	0.83	Pass
High operating frequency (2480MHz)	Peak Power	0.88	N/A
	Average Power	0.84	Pass
	Peak Power (EIRP)	0.88	Pass
	Average Power (EIRP)	0.84	Pass



Output Power (Low operating frequency)



Output Power (Mid operating frequency)



Output Power (High operating frequency)

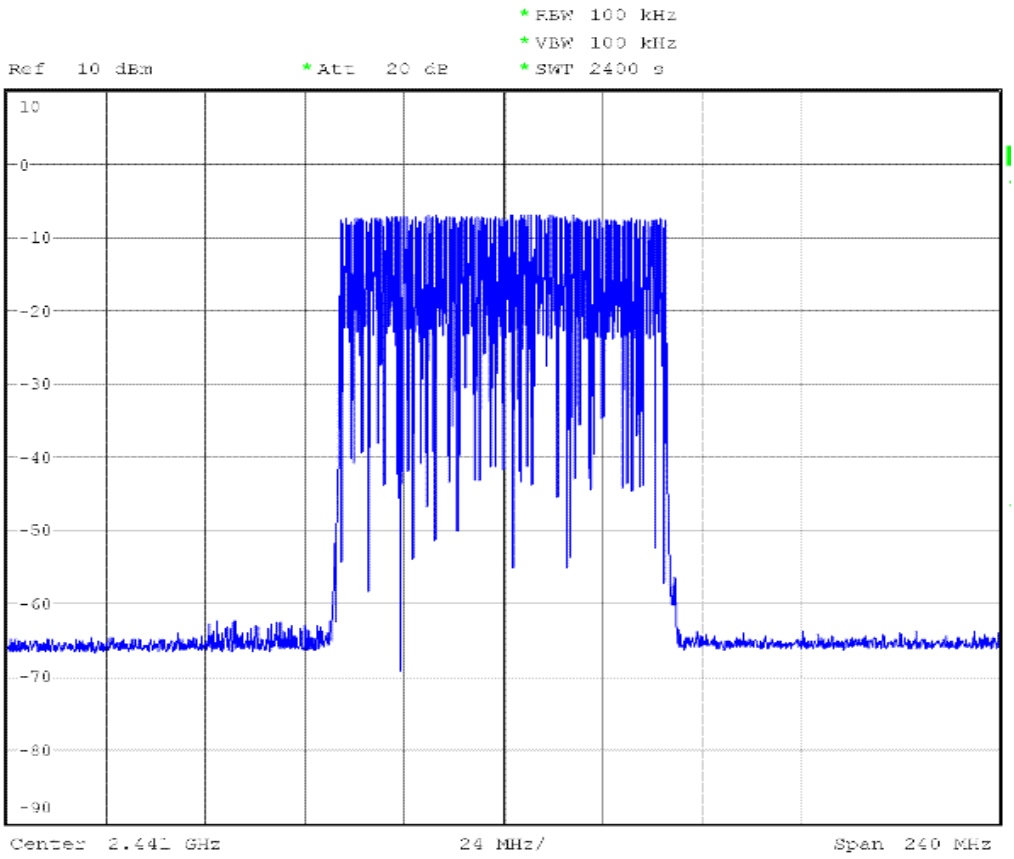
2.2.3. Test Case: TRM/CA/02/C - Power Density

Expected Outcome:

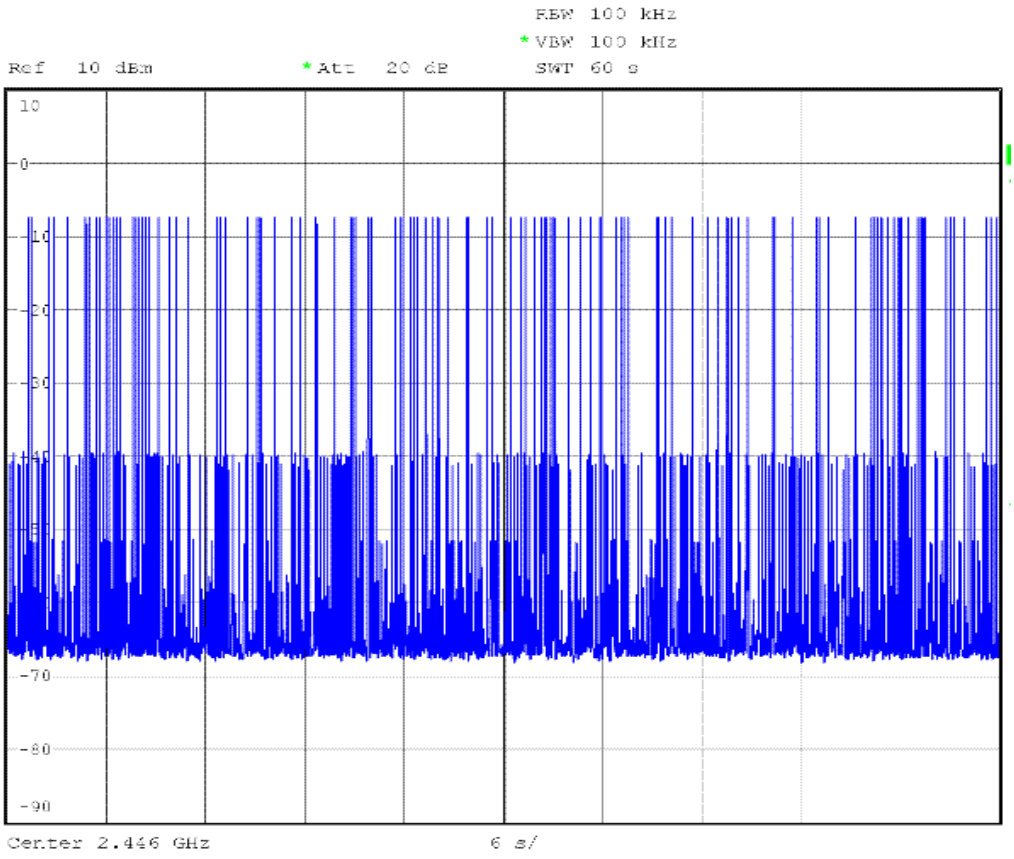
All values as measured must fulfill the following conditions:

1. Power Density < 100 mW (20dBm) per 100 kHz EIRP

Max Frequency (MHz)	Peak Power (dBm)	Power Density (dBm/100KHz)	Limit (dBm/100KHz)	Verdict
2446.00 MHz	1.53	1.10	<20	Pass



Power Density (Step1)



Power Density (Step2)

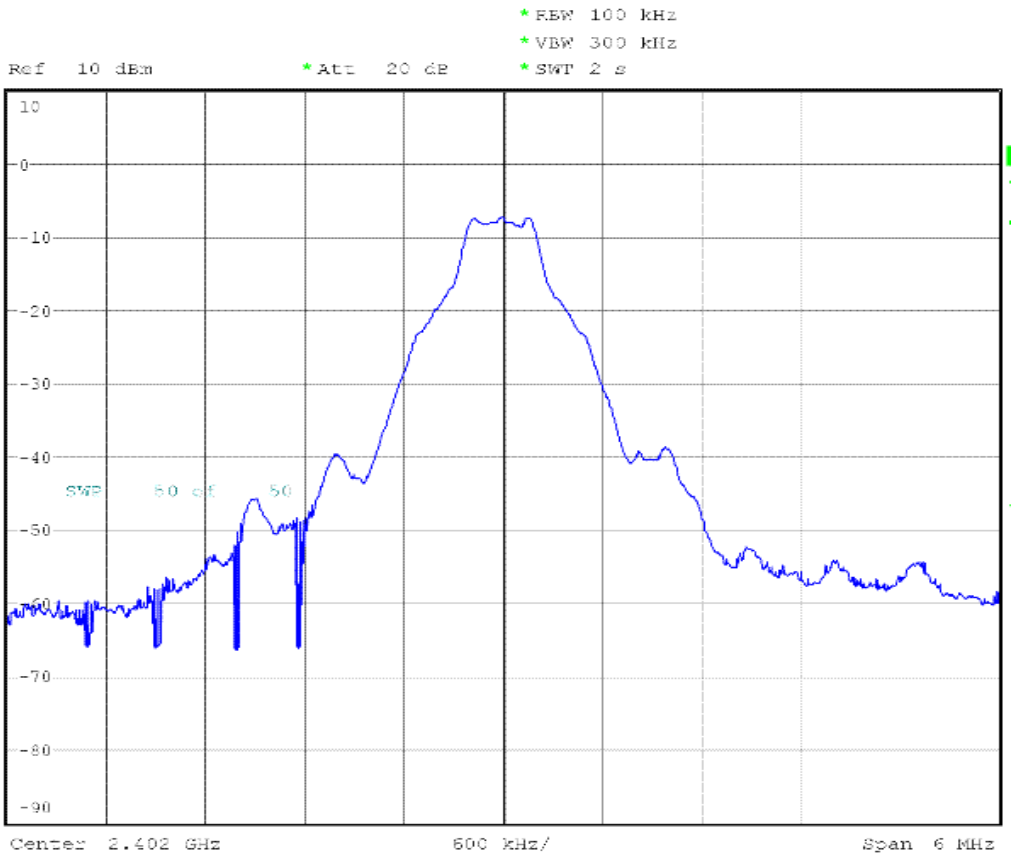
2.2.4. Test Case: TRM/CA/04/C - TX Output Spectrum - Frequency Range

Expected Outcome:

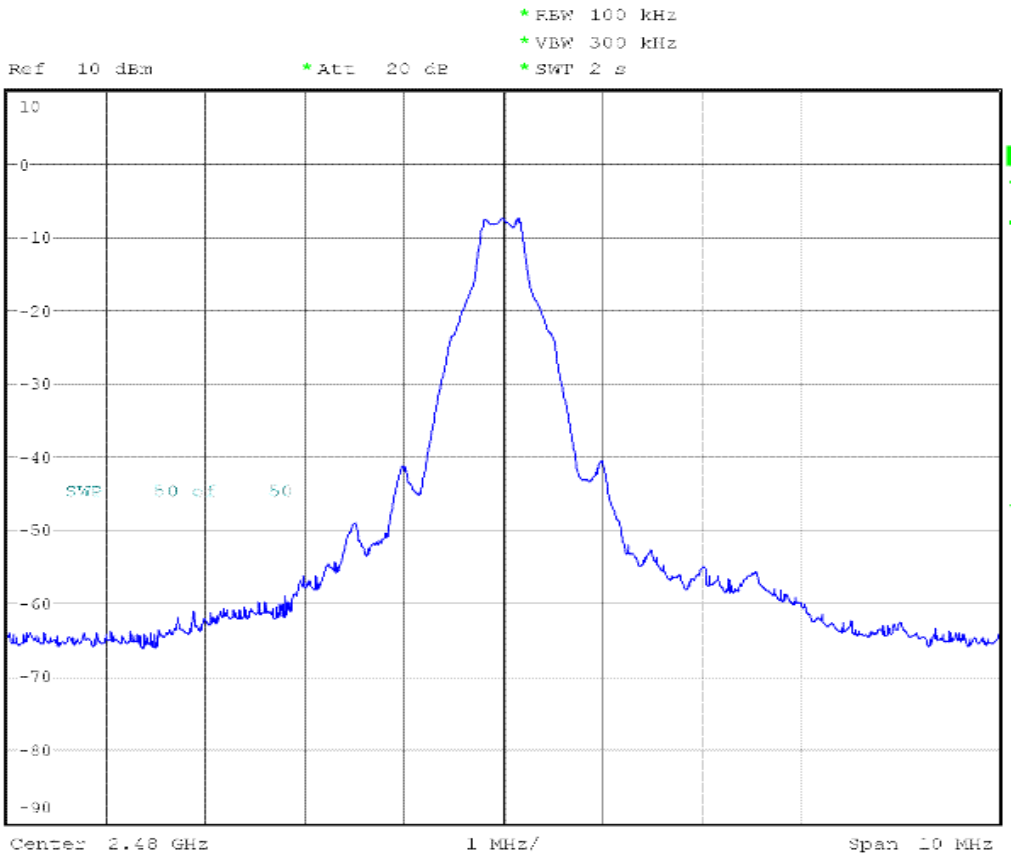
All values as measured must fulfill the following conditions:

1. fL, fH within the allowed frequency band :2.4 GHz – 2.4835 GHz

Frequency (MHz)		Limit(MHz)	Verdict
Lowest(fL)	2401.24	fL>2400.0	Pass
Highest(fH)	2478.43	fH <2483.5	Pass



TX Output Spectrum – Frequency range (fL)



TX Output Spectrum – Frequency range (fH)

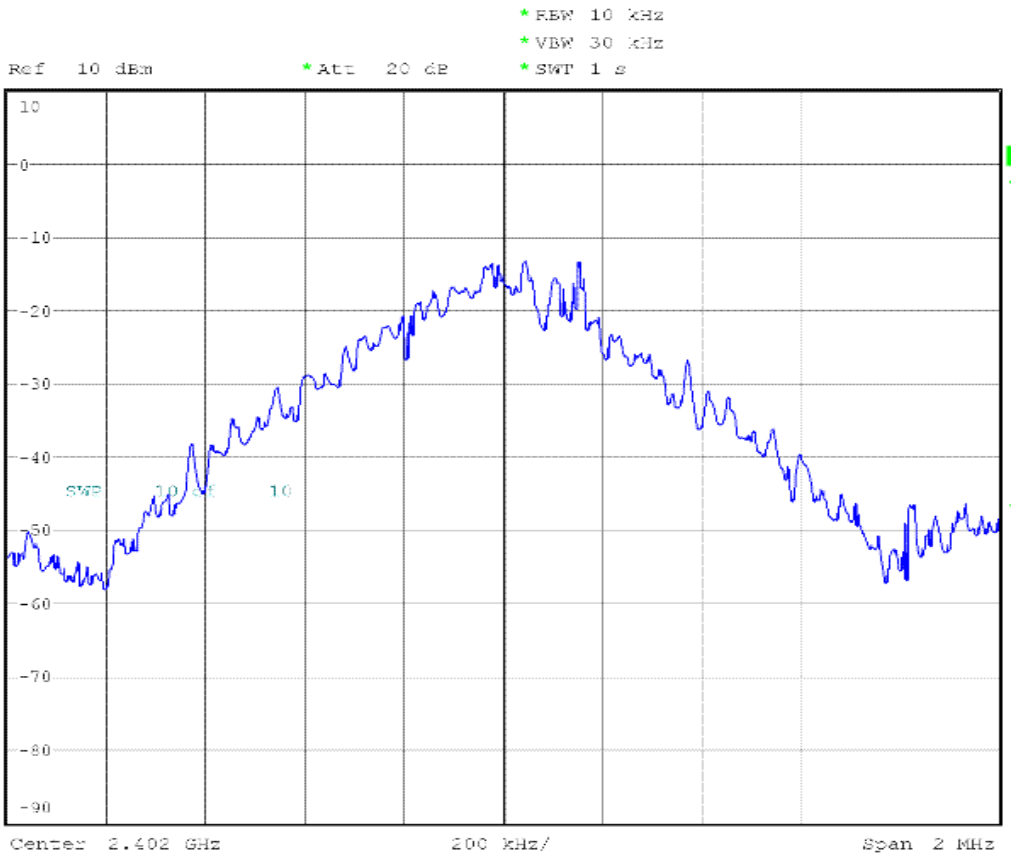
2.2.5. Test Case: TRM/CA/05/C - TX Output Spectrum - 20 dB Bandwidth

Expected Outcome:

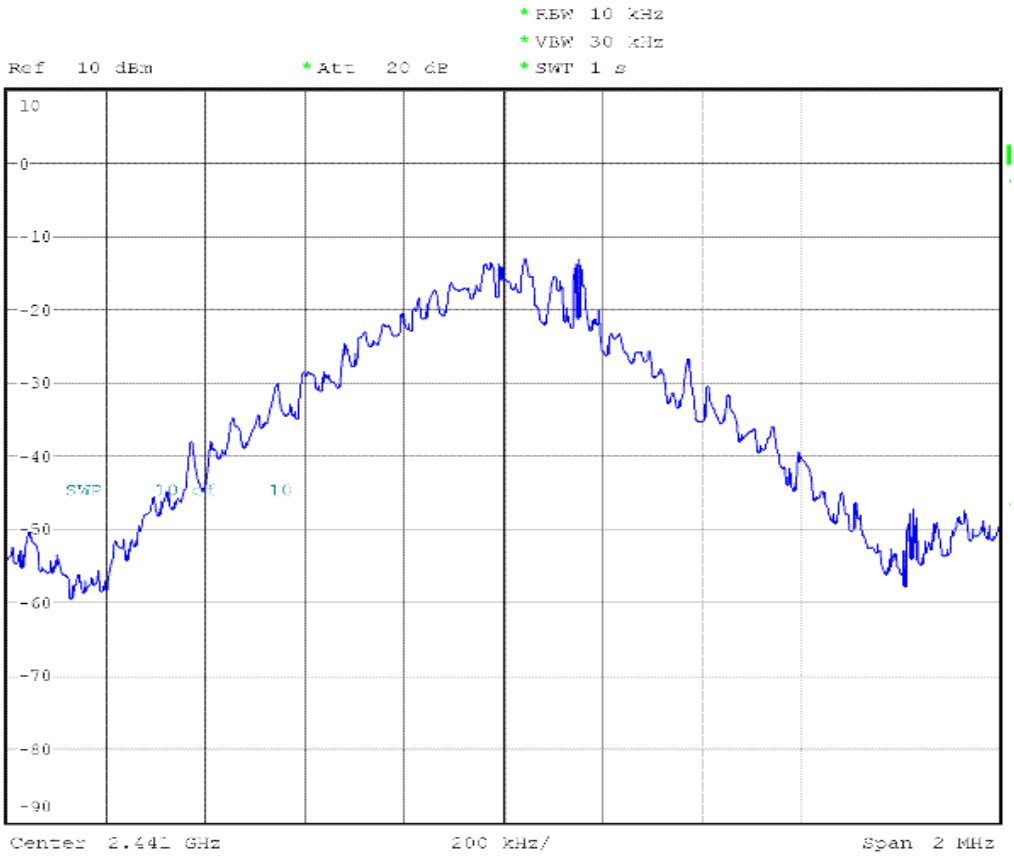
All values as measured must fulfill the following conditions:

1.The Transmit spectrum shall fulfill the following mask :Δf = |fH - fL| ≤ 1.0 MHz

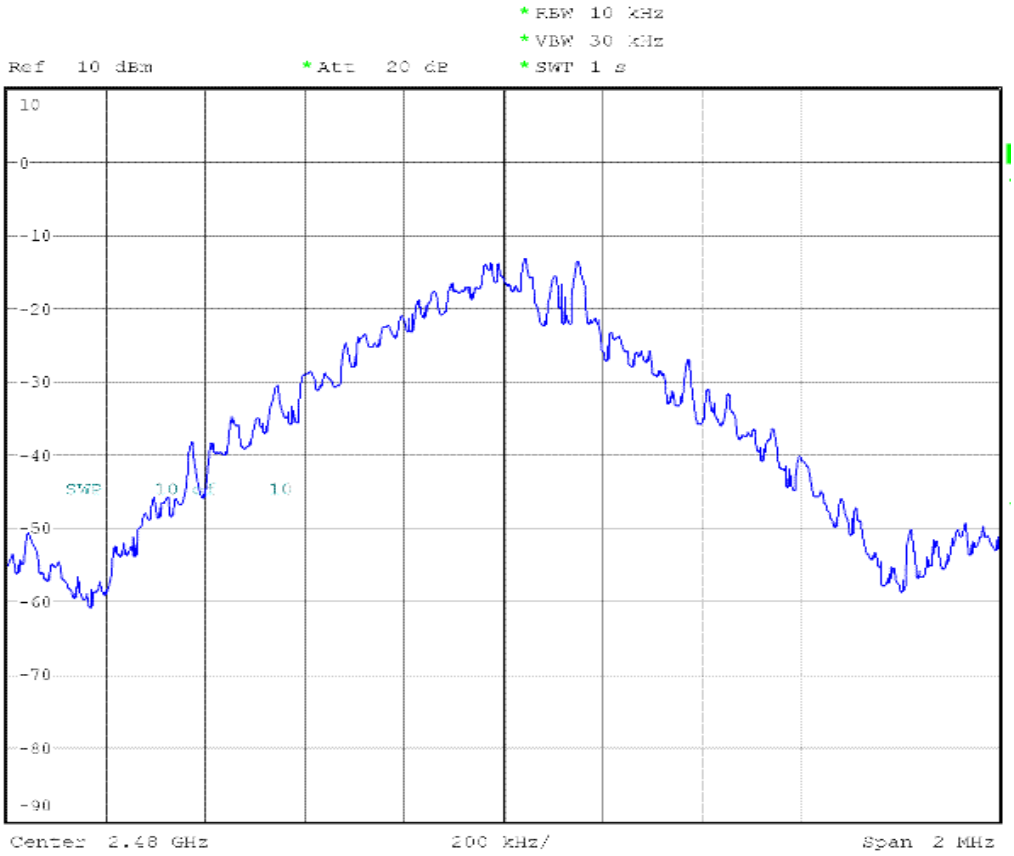
Test Frequency (MHz)		fL (MHz)	fH (MHz)	Δ f = | fH - fL | (MHz)	Limit	Verdict
Low Frequency	2402	2401.53	2402.46	0.93	≤1.0	Pass
Mid Frequency	2441	2440.58	2441.35	0.77	≤1.0	Pass
High Frequency	2480	2479.59	2480.35	0.76	≤1.0	Pass



TX Output Spectrum – 20 dB Bandwidth (Low Frequency)



TX Output Spectrum – 20 dB Bandwidth (Mid Frequency)



TX Output Spectrum – 20 dB Bandwidth (High Frequency)

2.2.6. Test Case: TRM/CA/06/C - TX Output Spectrum - Adjacent Channel Power

Expected Outcome:

All values as measured must fulfill the following conditions:

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency which is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

1. Ptx (f) ≤ – 20 dBm for | M-N | = 2
2. Ptx (f) ≤ – 40 dBm for | M-N | ≥ 3

Test Frequency (MHz)	Adjacent Channel Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
Low Frequency (2402 MHz)	2402	-54.20	≤ -40	Pass
	2403	-42.05	≤ -20	Pass
	2404	-23.15	N/A	N/A
	2405	1.97	N/A	N/A

	2406	-24.36	N/A	N/A
	2407	-46.35	≤ -20	Pass
	2408	-50.93	≤ -40	Pass
	2409	-57.96	≤ -40	Pass
	2410	-60.48	≤ -40	Pass
	2411	-60.43	≤ -40	Pass
	2412	-62.57	≤ -40	Pass
	2413	-61.22	≤ -40	Pass
	2414	-63.09	≤ -40	Pass
	2415	-63.71	≤ -40	Pass
	2416	-63.73	≤ -40	Pass
	2417	-62.82	≤ -40	Pass
	2418	-63.78	≤ -40	Pass
	2419	-63.91	≤ -40	Pass
	2420	-64.06	≤ -40	Pass
	2421	-61.78	≤ -40	Pass
	2422	-64.07	≤ -40	Pass
	2423	-63.02	≤ -40	Pass
	2424	-64.32	≤ -40	Pass
	2425	-63.66	≤ -40	Pass
	2426	-64.37	≤ -40	Pass
	2427	-64.71	≤ -40	Pass
	2428	-64.70	≤ -40	Pass
	2429	-64.61	≤ -40	Pass
	2430	-64.81	≤ -40	Pass
	2431	-60.87	≤ -40	Pass
	2432	-64.91	≤ -40	Pass
	2433	-64.34	≤ -40	Pass
	2434	-65.17	≤ -40	Pass
	2435	-65.28	≤ -40	Pass
	2436	-65.33	≤ -40	Pass
	2437	-63.78	≤ -40	Pass
	2438	-65.36	≤ -40	Pass
	2439	-65.22	≤ -40	Pass
	2440	-65.38	≤ -40	Pass
	2441	-65.26	≤ -40	Pass
	2442	-65.66	≤ -40	Pass
	2443	-65.78	≤ -40	Pass

	2444	-65.71	≤ -40	Pass
	2445	-65.59	≤ -40	Pass
	2446	-65.69	≤ -40	Pass
	2447	-65.63	≤ -40	Pass
	2448	-65.58	≤ -40	Pass
	2449	-65.52	≤ -40	Pass
	2450	-65.60	≤ -40	Pass
	2451	-65.72	≤ -40	Pass
	2452	-65.45	≤ -40	Pass
	2453	-65.26	≤ -40	Pass
	2454	-65.58	≤ -40	Pass
	2455	-64.10	≤ -40	Pass
	2456	-65.56	≤ -40	Pass
	2457	-65.50	≤ -40	Pass
	2458	-65.74	≤ -40	Pass
	2459	-65.68	≤ -40	Pass
	2460	-65.73	≤ -40	Pass
	2461	-65.71	≤ -40	Pass
	2462	-65.70	≤ -40	Pass
	2463	-65.75	≤ -40	Pass
	2464	-65.75	≤ -40	Pass
	2465	-65.50	≤ -40	Pass
	2466	-65.73	≤ -40	Pass
	2467	-65.46	≤ -40	Pass
	2468	-65.74	≤ -40	Pass
	2469	-63.81	≤ -40	Pass
	2470	-65.47	≤ -40	Pass
	2471	-65.69	≤ -40	Pass
	2472	-65.65	≤ -40	Pass
	2473	-65.46	≤ -40	Pass
	2474	-65.62	≤ -40	Pass
	2475	-63.27	≤ -40	Pass
	2476	-61.04	≤ -40	Pass
	2477	-39.58	≤ -40	Fail
	2478	-63.98	≤ -40	Pass
	2479	-65.53	≤ -40	Pass
	2480	-65.54	≤ -40	Pass
	2402	-65.39	≤ -40	Pass

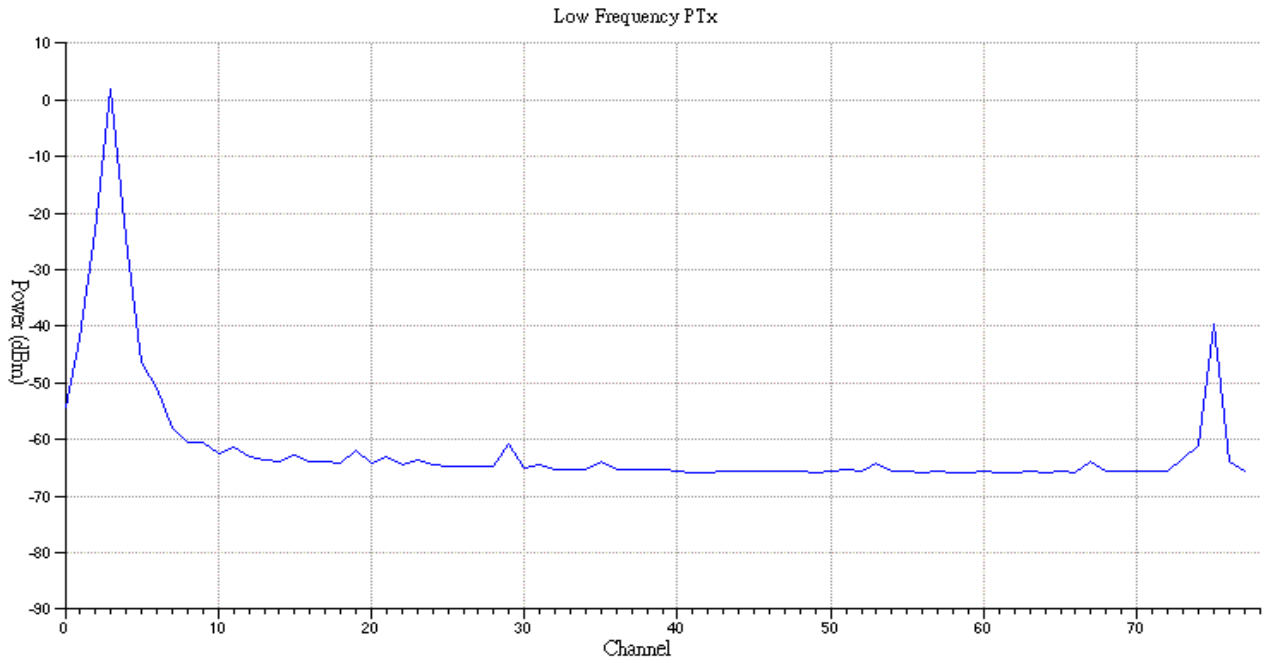
Mid Frequency (2441 MHz)	2403	-63.24	≤ -40	Pass
	2404	-57.20	≤ -40	Pass
	2405	-33.42	≤ -40	Fail
	2406	-61.01	≤ -40	Pass
	2407	-65.29	≤ -40	Pass
	2408	-65.06	≤ -40	Pass
	2409	-55.90	≤ -40	Pass
	2410	-64.91	≤ -40	Pass
	2411	-65.04	≤ -40	Pass
	2412	-64.92	≤ -40	Pass
	2413	-64.55	≤ -40	Pass
	2414	-64.74	≤ -40	Pass
	2415	-60.53	≤ -40	Pass
	2416	-64.33	≤ -40	Pass
	2417	-63.87	≤ -40	Pass
	2418	-64.31	≤ -40	Pass
	2419	-64.16	≤ -40	Pass
	2420	-63.93	≤ -40	Pass
	2421	-62.80	≤ -40	Pass
	2422	-64.09	≤ -40	Pass
	2423	-64.00	≤ -40	Pass
	2424	-63.96	≤ -40	Pass
	2425	-61.68	≤ -40	Pass
	2426	-64.03	≤ -40	Pass
	2427	-64.06	≤ -40	Pass
	2428	-63.64	≤ -40	Pass
	2429	-62.14	≤ -40	Pass
	2430	-62.94	≤ -40	Pass
	2431	-61.63	≤ -40	Pass
	2432	-63.27	≤ -40	Pass
	2433	-62.16	≤ -40	Pass
	2434	-61.97	≤ -40	Pass
	2435	-57.35	≤ -40	Pass
	2436	-58.08	≤ -40	Pass
	2437	-57.89	≤ -40	Pass
	2438	-54.53	≤ -40	Pass
	2439	-44.43	≤ -20	Pass
	2440	-23.61	N/A	N/A

	2441	1.70	N/A	N/A
	2442	-25.21	N/A	N/A
	2443	-46.98	≤ -20	Pass
	2444	-51.18	≤ -40	Pass
	2445	-56.39	≤ -40	Pass
	2446	-59.34	≤ -40	Pass
	2447	-60.69	≤ -40	Pass
	2448	-62.56	≤ -40	Pass
	2449	-63.29	≤ -40	Pass
	2450	-63.71	≤ -40	Pass
	2451	-61.75	≤ -40	Pass
	2452	-63.48	≤ -40	Pass
	2453	-63.05	≤ -40	Pass
	2454	-64.17	≤ -40	Pass
	2455	-64.26	≤ -40	Pass
	2456	-64.03	≤ -40	Pass
	2457	-61.54	≤ -40	Pass
	2458	-64.19	≤ -40	Pass
	2459	-64.47	≤ -40	Pass
	2460	-64.39	≤ -40	Pass
	2461	-63.63	≤ -40	Pass
	2462	-64.48	≤ -40	Pass
	2463	-64.66	≤ -40	Pass
	2464	-64.60	≤ -40	Pass
	2465	-64.65	≤ -40	Pass
	2466	-64.66	≤ -40	Pass
	2467	-60.88	≤ -40	Pass
	2468	-64.76	≤ -40	Pass
	2469	-64.54	≤ -40	Pass
	2470	-64.74	≤ -40	Pass
	2471	-64.97	≤ -40	Pass
	2472	-65.03	≤ -40	Pass
	2473	-63.77	≤ -40	Pass
	2474	-65.17	≤ -40	Pass
	2475	-65.08	≤ -40	Pass
	2476	-65.18	≤ -40	Pass
	2477	-64.53	≤ -40	Pass
	2478	-65.17	≤ -40	Pass

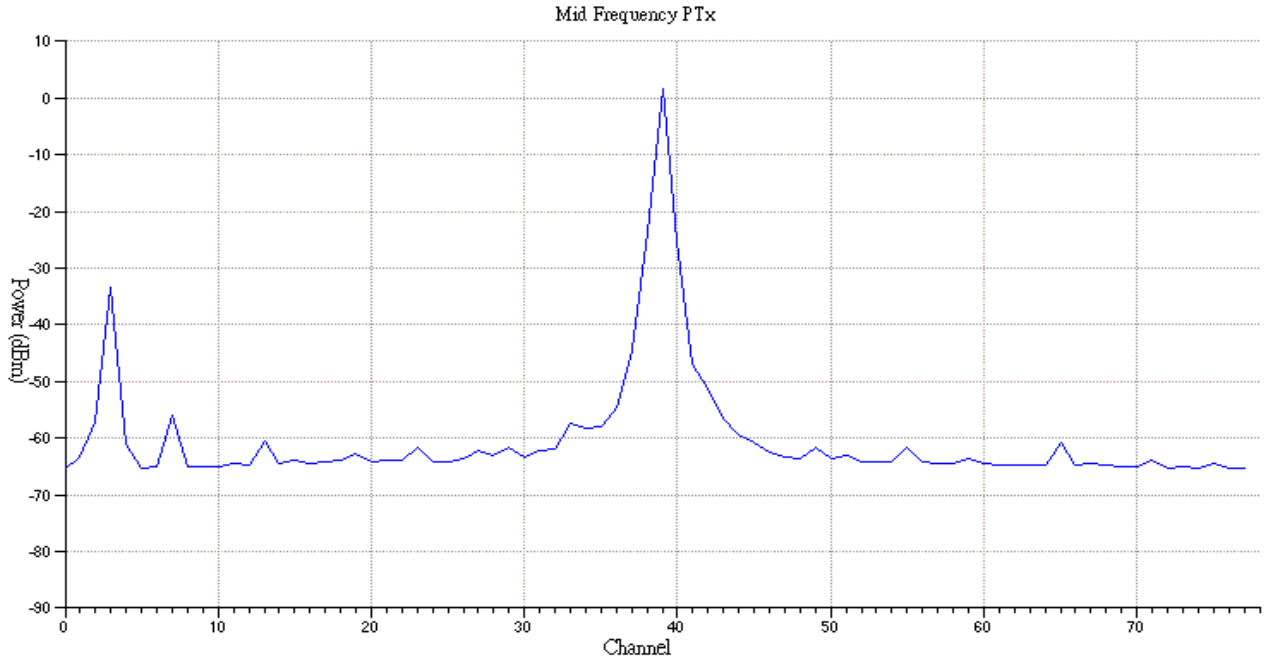
	2479	-65.21	≤ -40	Pass
	2480	-65.23	≤ -40	Pass
High Frequency (2480 MHz)	2402	-65.75	≤ -40	Pass
	2403	-63.46	≤ -40	Pass
	2404	-59.28	≤ -40	Pass
	2405	-36.29	≤ -40	Fail
	2406	-62.82	≤ -40	Pass
	2407	-65.76	≤ -40	Pass
	2408	-65.74	≤ -40	Pass
	2409	-65.66	≤ -40	Pass
	2410	-65.80	≤ -40	Pass
	2411	-65.48	≤ -40	Pass
	2412	-65.78	≤ -40	Pass
	2413	-61.07	≤ -40	Pass
	2414	-65.70	≤ -40	Pass
	2415	-65.76	≤ -40	Pass
	2416	-65.61	≤ -40	Pass
	2417	-65.80	≤ -40	Pass
	2418	-65.87	≤ -40	Pass
	2419	-65.71	≤ -40	Pass
	2420	-65.86	≤ -40	Pass
	2421	-65.85	≤ -40	Pass
	2422	-65.78	≤ -40	Pass
	2423	-65.79	≤ -40	Pass
	2424	-65.74	≤ -40	Pass
	2425	-64.14	≤ -40	Pass
	2426	-65.53	≤ -40	Pass
	2427	-65.81	≤ -40	Pass
	2428	-65.71	≤ -40	Pass
	2429	-64.50	≤ -40	Pass
	2430	-65.75	≤ -40	Pass
	2431	-65.68	≤ -40	Pass
	2432	-65.60	≤ -40	Pass
	2433	-65.57	≤ -40	Pass
	2434	-65.54	≤ -40	Pass
	2435	-65.64	≤ -40	Pass
	2436	-65.71	≤ -40	Pass
	2437	-65.27	≤ -40	Pass

	2438	-65.61	≤ -40	Pass
	2439	-65.33	≤ -40	Pass
	2440	-65.55	≤ -40	Pass
	2441	-64.81	≤ -40	Pass
	2442	-65.28	≤ -40	Pass
	2443	-65.41	≤ -40	Pass
	2444	-65.36	≤ -40	Pass
	2445	-56.18	≤ -40	Pass
	2446	-65.19	≤ -40	Pass
	2447	-65.17	≤ -40	Pass
	2448	-64.99	≤ -40	Pass
	2449	-64.69	≤ -40	Pass
	2450	-64.75	≤ -40	Pass
	2451	-60.86	≤ -40	Pass
	2452	-64.56	≤ -40	Pass
	2453	-63.99	≤ -40	Pass
	2454	-64.55	≤ -40	Pass
	2455	-64.45	≤ -40	Pass
	2456	-64.26	≤ -40	Pass
	2457	-62.82	≤ -40	Pass
	2458	-63.97	≤ -40	Pass
	2459	-64.16	≤ -40	Pass
	2460	-64.13	≤ -40	Pass
	2461	-62.47	≤ -40	Pass
	2462	-64.01	≤ -40	Pass
	2463	-62.53	≤ -40	Pass
	2464	-63.37	≤ -40	Pass
	2465	-61.14	≤ -40	Pass
	2466	-63.48	≤ -40	Pass
	2467	-63.32	≤ -40	Pass
	2468	-63.08	≤ -40	Pass
	2469	-62.00	≤ -40	Pass
	2470	-61.94	≤ -40	Pass
	2471	-57.30	≤ -40	Pass
	2472	-58.86	≤ -40	Pass
	2473	-58.32	≤ -40	Pass
	2474	-54.26	≤ -40	Pass
	2475	-46.36	≤ -20	Pass

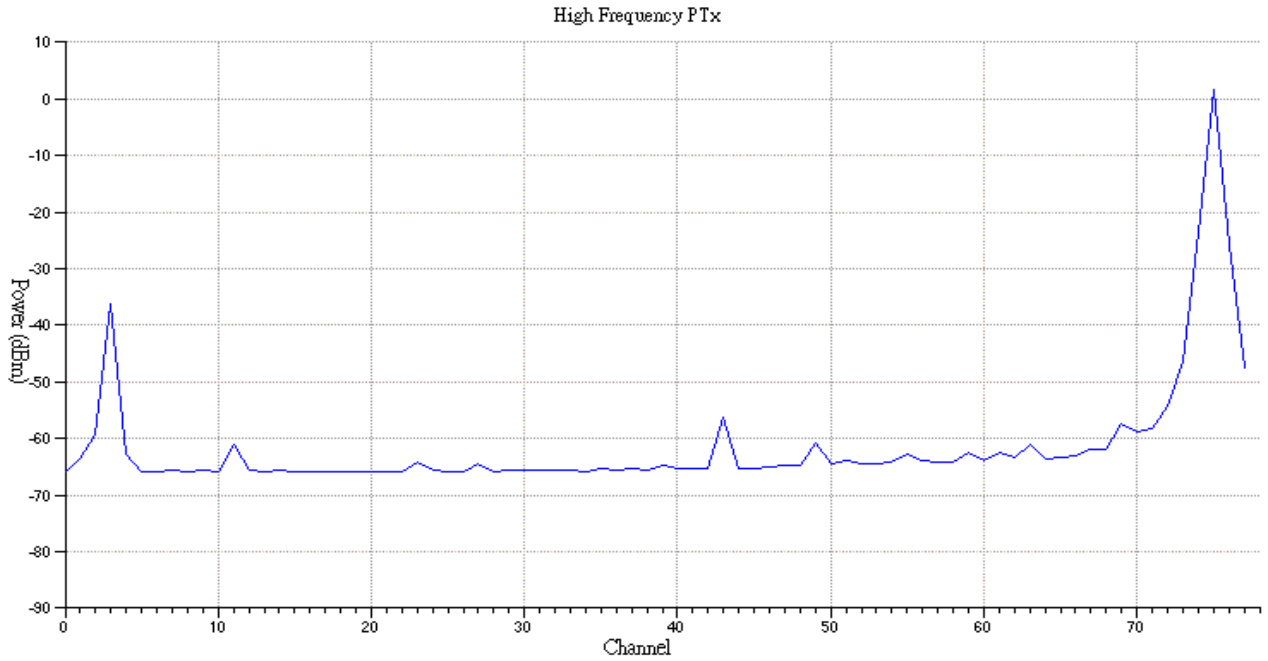
	2476	-23.60	N/A	N/A
	2477	1.79	N/A	N/A
	2478	-25.64	N/A	N/A
	2479	-47.39	≤ -20	Pass
	2480	-51.04	≤ -40	Pass



TX Output Spectrum – Adjacent channel power（Low Frequency)



TX Output Spectrum – Adjacent channel power (Mid Frequency)



TX Output Spectrum – Adjacent channel power (High Frequency)

2.2.7. Test Case: TRM/CA/07/C - Modulation Characteristics

Expected Outcome:
All values as measured must fulfill the following conditions:
1. 140 kHz ≤ Δf1avg ≤ 175 kHz
2. Δf2max ≥ 115 kHz for at least 99.9% of all Δf2max
3. Δf2avg/Δf1avg ≥ 0.8

Test Frequency (MHz)	Packet Number	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402 MHz)	1	Δ f1avg (kHz)	162.67	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.52	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.77	N/A	N/A
		Δ f2avg/Δf1avg	0.96	≥ 0.8	Pass
	2	Δ f1avg (kHz)	168.20	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.82	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	155.31	N/A	N/A
		Δ f2avg/Δf1avg	0.92	≥ 0.8	Pass
	3	Δ f1avg (kHz)	159.80	140 kHz≤Δf1avg≤175 kHz	Pass

		Δ f2max (kHz)	167.58	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.16	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	4	Δ f1avg (kHz)	160.99	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.77	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.03	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	5	Δ f1avg (kHz)	160.91	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.28	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.57	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	6	Δ f1avg (kHz)	161.52	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.35	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.68	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
	7	Δ f1avg (kHz)	160.71	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.83	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	155.77	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
	8	Δ f1avg (kHz)	162.50	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.03	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.59	N/A	N/A
		Δ f2avg/Δf1avg	0.96	≥ 0.8	Pass
	9	Δ f1avg (kHz)	164.65	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.65	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	155.44	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	10	Δ f1avg (kHz)	163.35	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.13	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	155.45	N/A	N/A

		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
Mid operating Frequency (2441 MHz)	1	Δ f1avg (kHz)	160.86	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.14	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.79	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	2	Δ f1avg (kHz)	166.67	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.77	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.30	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	3	Δ f1avg (kHz)	160.87	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.49	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.04	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	4	Δ f1avg (kHz)	164.70	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.24	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.98	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	5	Δ f1avg (kHz)	168.78	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.09	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.21	N/A	N/A
		Δ f2avg/Δf1avg	0.93	≥ 0.8	Pass
	6	Δ f1avg (kHz)	163.92	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.41	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.13	N/A	N/A
		Δ f2avg/Δf1avg	0.96	≥ 0.8	Pass
	7	Δ f1avg (kHz)	165.48	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	171.13	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.50	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	8	Δ f1avg (kHz)	161.75	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.19	≥ 115 kHz	Pass

		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.50	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
	9	Δ f1avg (kHz)	160.16	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.09	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.03	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	10	Δ f1avg (kHz)	160.63	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.09	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.01	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
High operating Frequency (2480 MHz)	1	Δ f1avg (kHz)	161.80	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	173.07	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	160.89	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	2	Δ f1avg (kHz)	168.26	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.00	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.58	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	3	Δ f1avg (kHz)	160.66	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	171.39	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	160.07	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	4	Δ f1avg (kHz)	160.98	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.80	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	160.02	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	5	Δ f1avg (kHz)	161.59	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	171.99	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.47	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass

	6	Δ f1avg (kHz)	162.11	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	173.11	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.21	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	7	Δ f1avg (kHz)	160.33	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.25	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	160.58	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	8	Δ f1avg (kHz)	160.94	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.89	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.88	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	9	Δ f1avg (kHz)	162.03	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.37	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.28	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	10	Δ f1avg (kHz)	164.91	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	173.36	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	159.21	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass

2.2.8. Test Case: TRM/CA/08/C - Initial Carrier Frequency Tolerance

Expected Outcome:

All values as measured must fulfill the following conditions:

Each of the EUT's carrier frequency f0 as measured must be within ±75kHz from the Eut's chosen nominal carrier frequency fTX

1. fTX – 75 kHz ≤ f 0 ≤ fTX + 75 kHz.

Test Frequency (MHz)	Packets No.	Carrier Frequency (KHz)	Limit (kHz)	Verdict
Low operating Frequency (2402 MHz)	1	-4.11	-75≤ f0 ≤ +75	Pass
	2	-6.87	-75≤ f0 ≤ +75	Pass
	3	-1.83	-75≤ f0 ≤ +75	Pass
	4	-4.76	-75≤ f0 ≤ +75	Pass
	5	-1.08	-75≤ f0 ≤ +75	Pass
	6	-1.52	-75≤ f0 ≤ +75	Pass
	7	-3.37	-75≤ f0 ≤ +75	Pass
	8	-0.56	-75≤ f0 ≤ +75	Pass
	9	-4.43	-75≤ f0 ≤ +75	Pass
	10	-1.17	-75≤ f0 ≤ +75	Pass
Mid operating Frequency (2441 MHz)	1	-1.29	-75≤ f0 ≤ +75	Pass
	2	-4.29	-75≤ f0 ≤ +75	Pass
	3	1.28	-75≤ f0 ≤ +75	Pass
	4	-7.27	-75≤ f0 ≤ +75	Pass
	5	-6.81	-75≤ f0 ≤ +75	Pass
	6	-0.76	-75≤ f0 ≤ +75	Pass
	7	-2.52	-75≤ f0 ≤ +75	Pass
	8	-0.99	-75≤ f0 ≤ +75	Pass
	9	-7.60	-75≤ f0 ≤ +75	Pass
	10	-3.77	-75≤ f0 ≤ +75	Pass
High operating Frequency (2480 MHz)	1	-2.93	-75≤ f0 ≤ +75	Pass
	2	3.57	-75≤ f0 ≤ +75	Pass
	3	-0.61	-75≤ f0 ≤ +75	Pass
	4	-0.19	-75≤ f0 ≤ +75	Pass
	5	-5.71	-75≤ f0 ≤ +75	Pass
	6	-9.62	-75≤ f0 ≤ +75	Pass
	7	-1.76	-75≤ f0 ≤ +75	Pass
	8	-8.65	-75≤ f0 ≤ +75	Pass

	9	0.73	-75≤ f0 ≤ +75	Pass
	10	-8.59	-75≤ f0 ≤ +75	Pass

2.2.9. Test Case: TRM/CA/09/C - Carrier Frequency Drift

Expected Outcome:

All values as measured must fulfill the following conditions:

1. One slot packet -25kHz≤ MAX Frequency Drift ≤+25kHz
2. Three slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
3. Five slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
4. The maximum drift rate is 20000 Hz / 50μs.

Packet Type: DH1

Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	4.95	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	5.63	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-4.41	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.94	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-5.03	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	7.16	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-5.71	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	8.84	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-3.16	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.03	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	4.82	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.65	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-3.55	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	3.68	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-6.90	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	6.11	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	4.32	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.91	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-4.82	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.90	≤ 20	Pass
	1	MAX Frequency Drift(kHz)	-4.87	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.43	≤ 20	Pass

Mid operating Frequency (2441 MHz)	2	MAX Frequency Drift(kHz)	-4.69	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.10	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-4.35	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	3.83	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	6.19	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	9.91	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-3.84	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	5.93	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	4.11	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	5.44	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-6.85	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.40	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.11	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.51	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	5.72	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	4.97	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	4.98	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.70	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	6.77	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	7.42	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-4.27	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.25	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-4.38	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	8.03	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-5.33	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	3.97	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-4.19	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	7.98	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-8.98	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	11.27	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.65	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	5.43	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-3.96	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.49	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	6.49	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	5.88	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	4.69	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.96	≤ 20	Pass

Packet Type: DH3					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	6.70	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	7.36	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-5.80	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.38	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	7.88	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	8.38	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	6.63	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.74	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.97	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	7.37	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.82	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	9.75	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.08	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.48	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.41	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	8.48	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-7.21	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	10.45	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.27	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	7.01	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	5.93	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.74	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.27	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.21	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	5.97	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.57	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	5.98	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	5.96	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	8.59	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	11.74	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	5.06	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	7.34	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-4.76	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.85	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	5.38	-25≤ fmax≤+25	Pass

	8	Maximum Drift Rate(kHz/50μs)	5.52	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.72	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	7.02	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-6.64	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	7.31	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-6.24	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	9.55	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	6.80	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.44	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-5.57	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	7.82	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-6.50	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	8.05	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.70	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	8.14	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.14	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	6.35	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-10.09	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	8.07	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.28	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	8.34	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.34	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.78	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.97	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	9.06	≤ 20	Pass
Packet Type: DH5					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	5.35	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.30	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.75	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.94	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	6.37	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	8.45	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-5.20	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.22	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	6.81	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	8.43	≤ 20	Pass

	6	MAX Frequency Drift(kHz)	-5.68	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	7.14	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-5.80	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.71	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	5.30	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.86	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.16	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.54	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-5.59	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	6.31	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	4.76	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.99	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	4.76	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.33	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	5.86	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	7.23	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	5.31	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.78	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.22	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	6.63	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.06	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	7.47	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	6.87	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	7.62	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	7.59	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	7.30	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-5.57	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.62	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	5.89	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.79	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-6.44	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	8.99	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	6.44	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	6.81	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-7.32	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	8.34	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	6.37	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	7.11	≤ 20	Pass

	5	MAX Frequency Drift(kHz)	6.29	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	8.26	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	6.19	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	7.58	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.55	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	8.57	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	6.83	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	6.90	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	6.82	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	9.57	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-5.80	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	8.15	≤ 20	Pass

2.2.10. Test Case: RCV/CA/01/C - Sensitivity - Single Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.)

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

2.2.11. Test Case: RCV/CA/02/C - Sensitivity - Multi-Slot Packets

Expected Outcome:
All values as measured must fulfill the following conditions.
1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

2.3. Test Case List for Low Temperature

2.3.1. RF Description

EUT Power Class	Class 2
EUT Antenna Gain	0 dBi
Test Condition	Low Temperature
EUT To Spectrum Loss (Low)	8.82
EUT To Spectrum Loss (Mid)	8.55
EUT To Spectrum Loss (High)	8.83

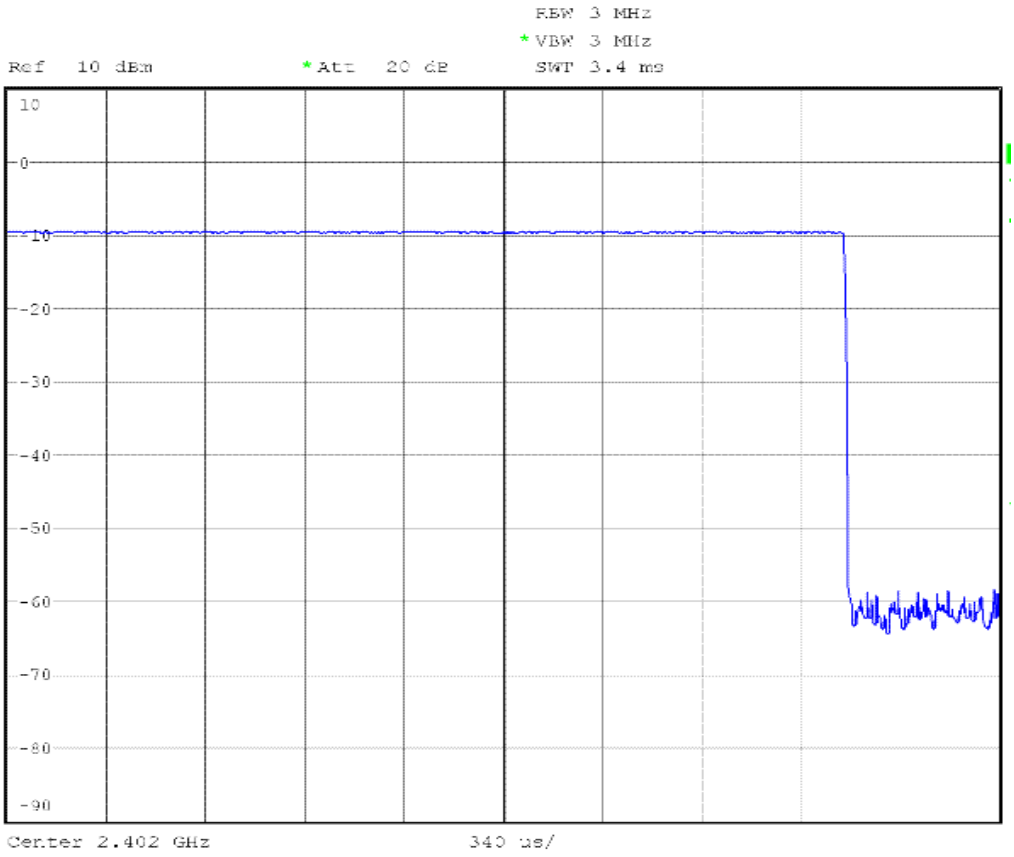
2.3.2. Test Case: TRM/CA/01/C - Output Power

Expected Outcome:

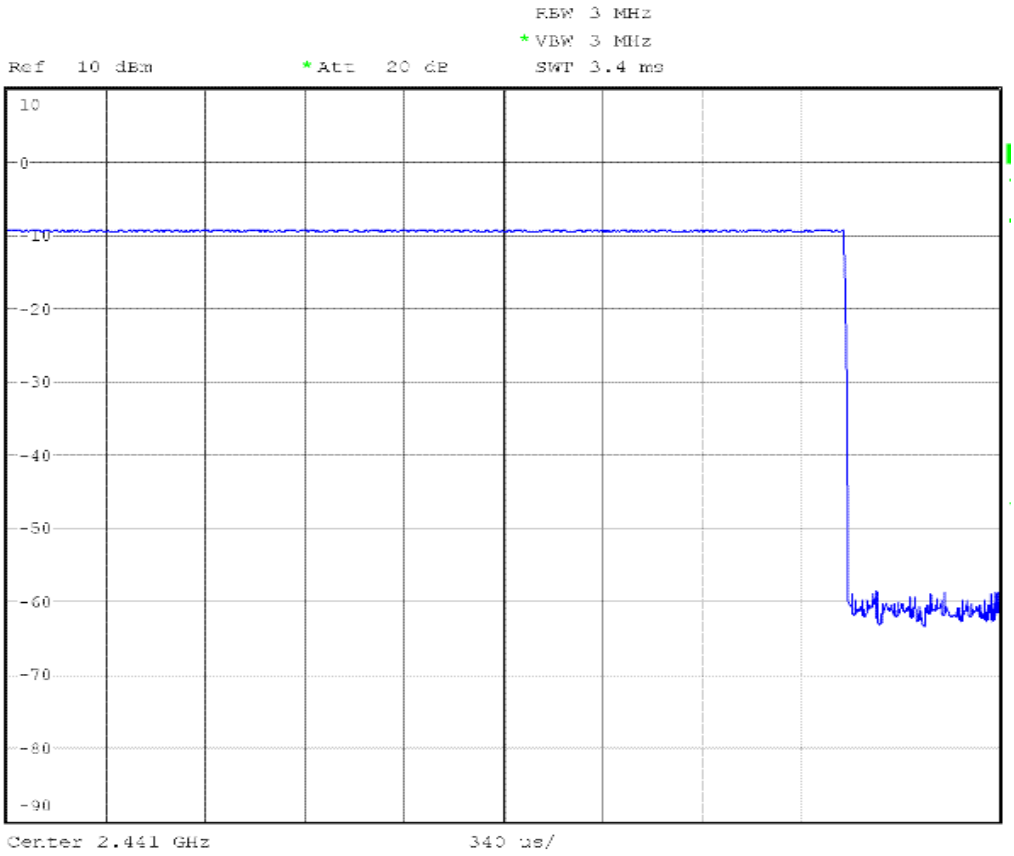
All values as measured must fulfill the following conditions:

1. P av < 100mW (20 dBm) EIRP
2. P pk < 200mW (23 dBm) EIRP
3. If the EUT is a power class 1 equipment :P av > 1mW (0dBm)
4. If the EUT is a power class 2 equipment :0.25mW (-6 dBm) < P av < 2.5mW (4dBm)
5. If the EUT is a power class 3 equipment :P av < 1mW (0dBm)

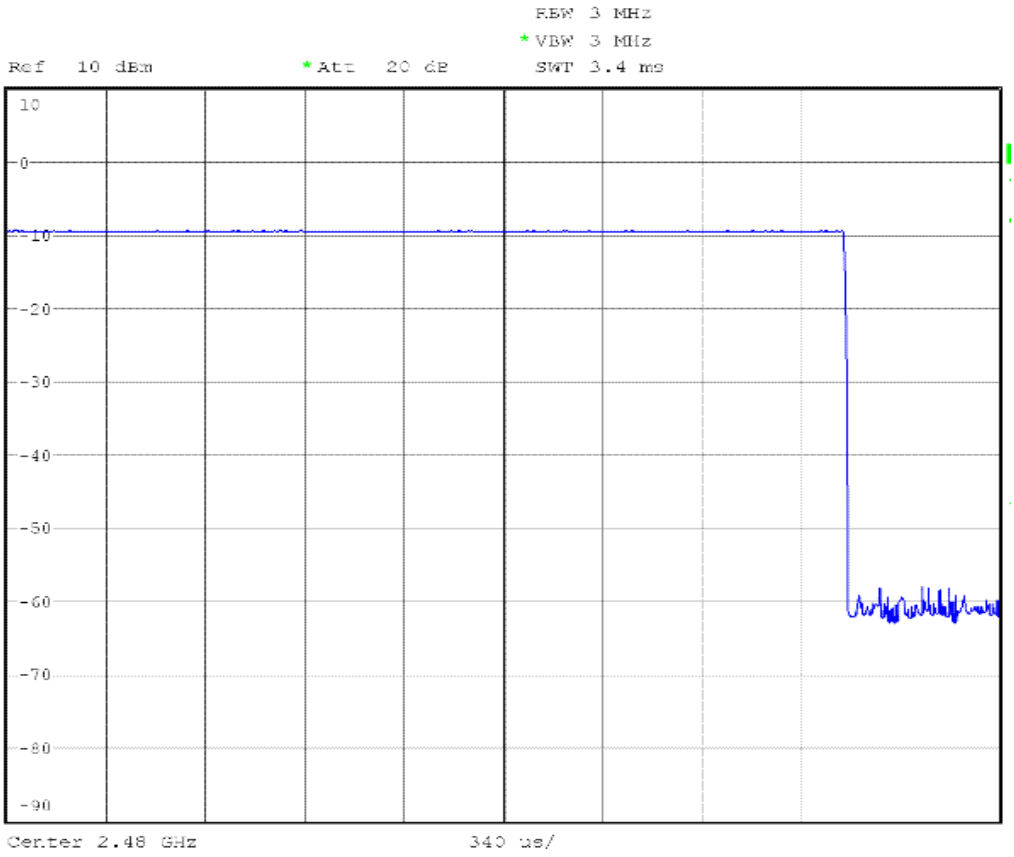
Test Frequency	Item	Value(dBm)	Verdict
Low operating frequency (2402MHz)	Peak Power	-0.86	N/A
	Average Power	-0.92	Pass
	Peak Power (EIRP)	-0.86	Pass
	Average Power (EIRP)	-0.92	Pass
Mid operating frequency (2441MHz)	Peak Power	-0.94	N/A
	Average Power	-0.98	Pass
	Peak Power (EIRP)	-0.94	Pass
	Average Power (EIRP)	-0.98	Pass
High operating frequency (2480MHz)	Peak Power	-0.68	N/A
	Average Power	-0.73	Pass
	Peak Power (EIRP)	-0.68	Pass
	Average Power (EIRP)	-0.73	Pass



Output Power (Low operating frequency)



Output Power (Mid operating frequency)



Output Power (High operating frequency)

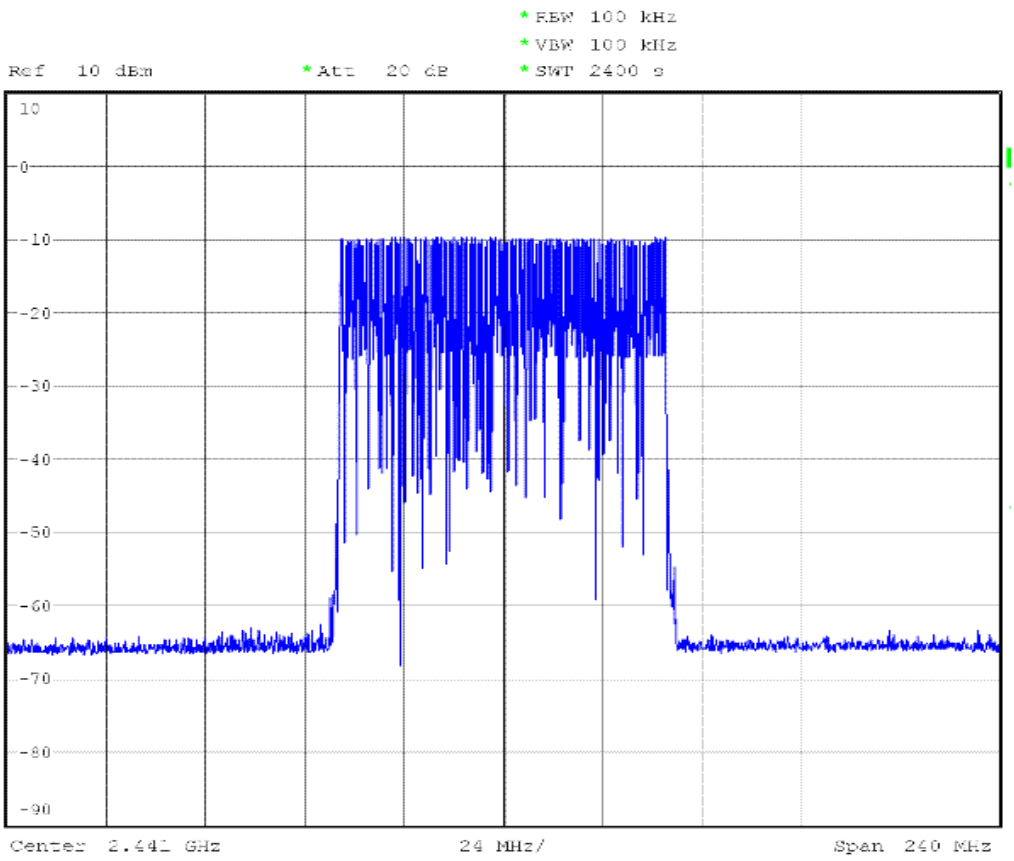
2.3.3. Test Case: TRM/CA/02/C - Power Density

Expected Outcome:

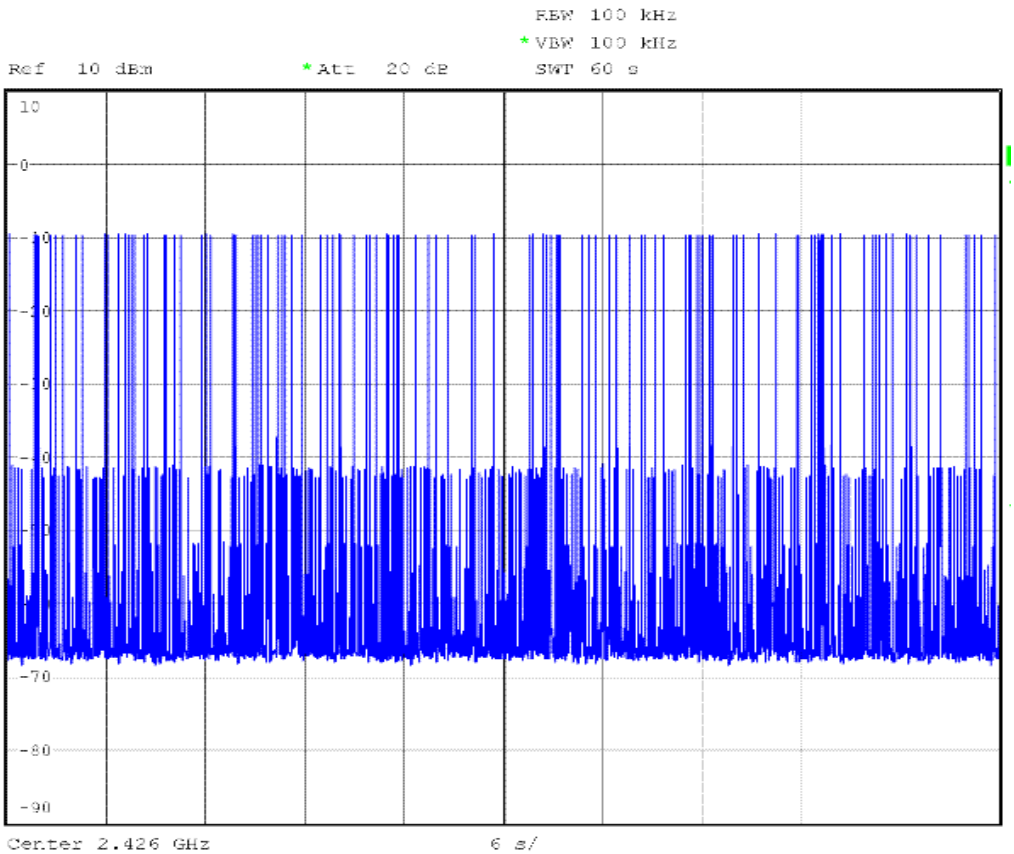
All values as measured must fulfill the following conditions:

1. Power Density < 100 mW (20dBm) per 100 kHz EIRP

Max Frequency (MHz)	Peak Power (dBm)	Power Density (dBm/100KHz)	Limit (dBm/100KHz)	Verdict
2426.00 MHz	-1.24	-1.09	<20	Pass



Power Density (Step1)



Power Density (Step2)

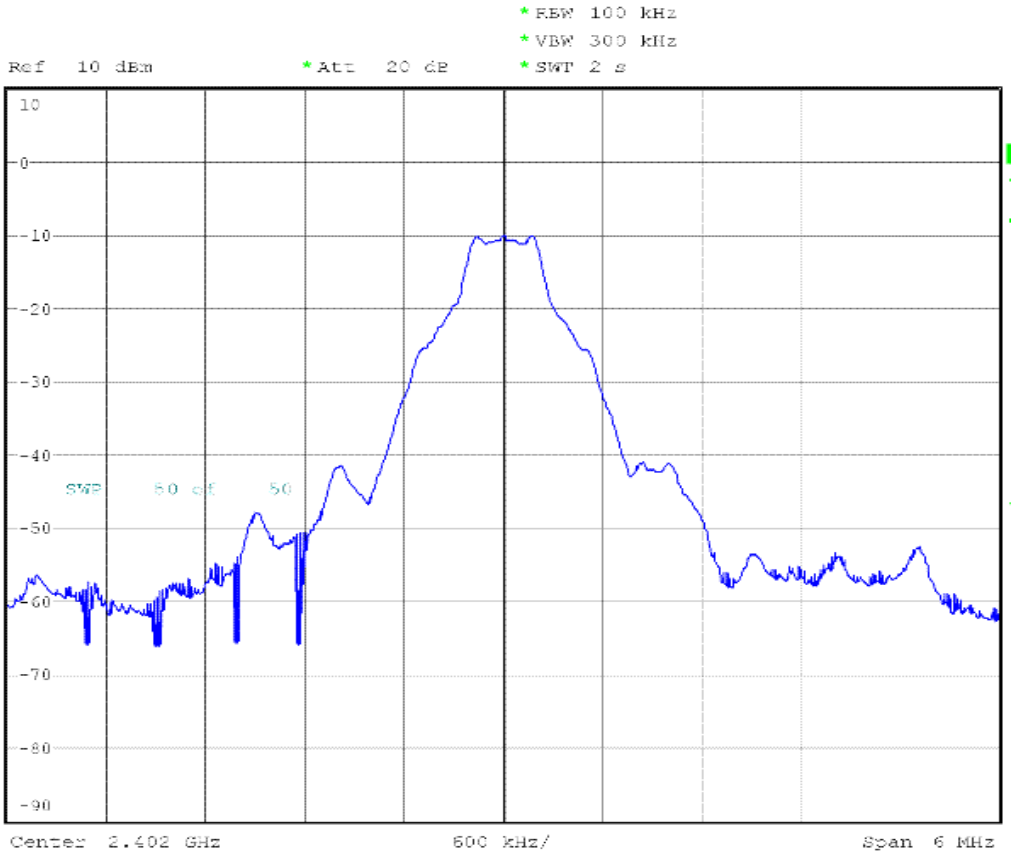
2.3.4. Test Case: TRM/CA/04/C - TX Output Spectrum - Frequency Range

Expected Outcome:

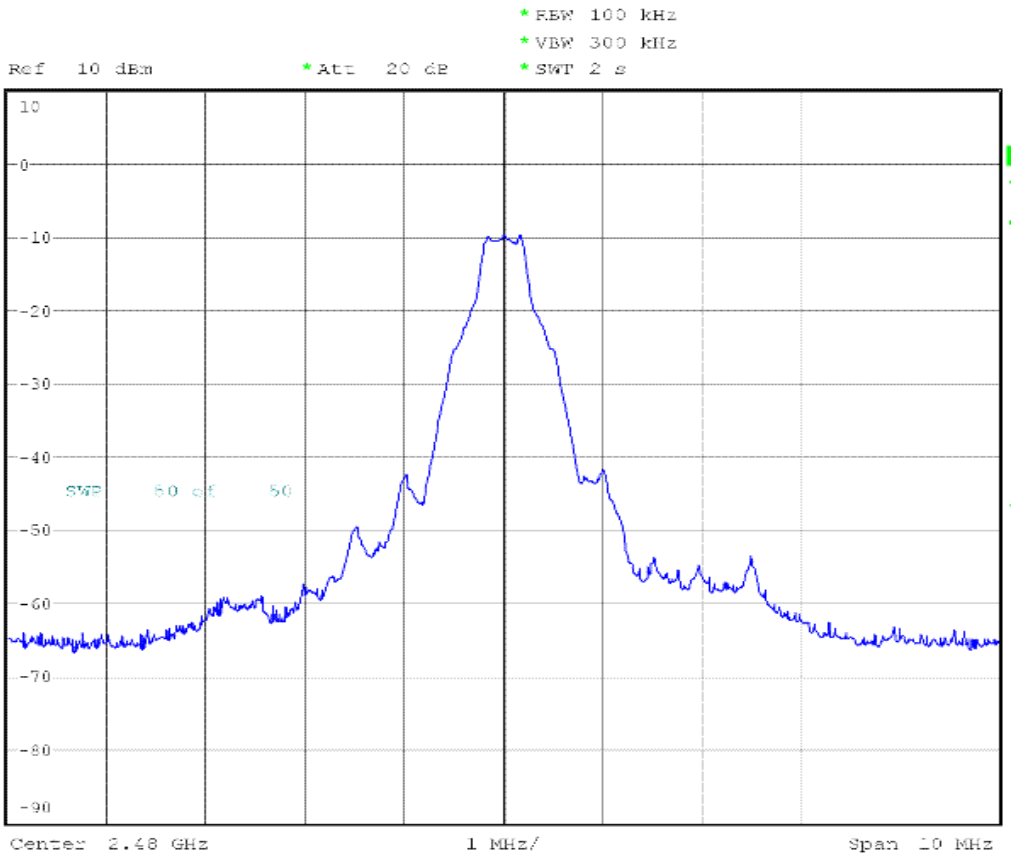
All values as measured must fulfill the following conditions:

1. fL, fH within the allowed frequency band :2.4 GHz – 2.4835 GHz

Frequency (MHz)		Limit(MHz)	Verdict
Lowest(fL)	2401.29	fL>2400.0	Pass
Highest(fH)	2478.43	fH <2483.5	Pass



TX Output Spectrum – Frequency range (fL)



TX Output Spectrum – Frequency range (fH)

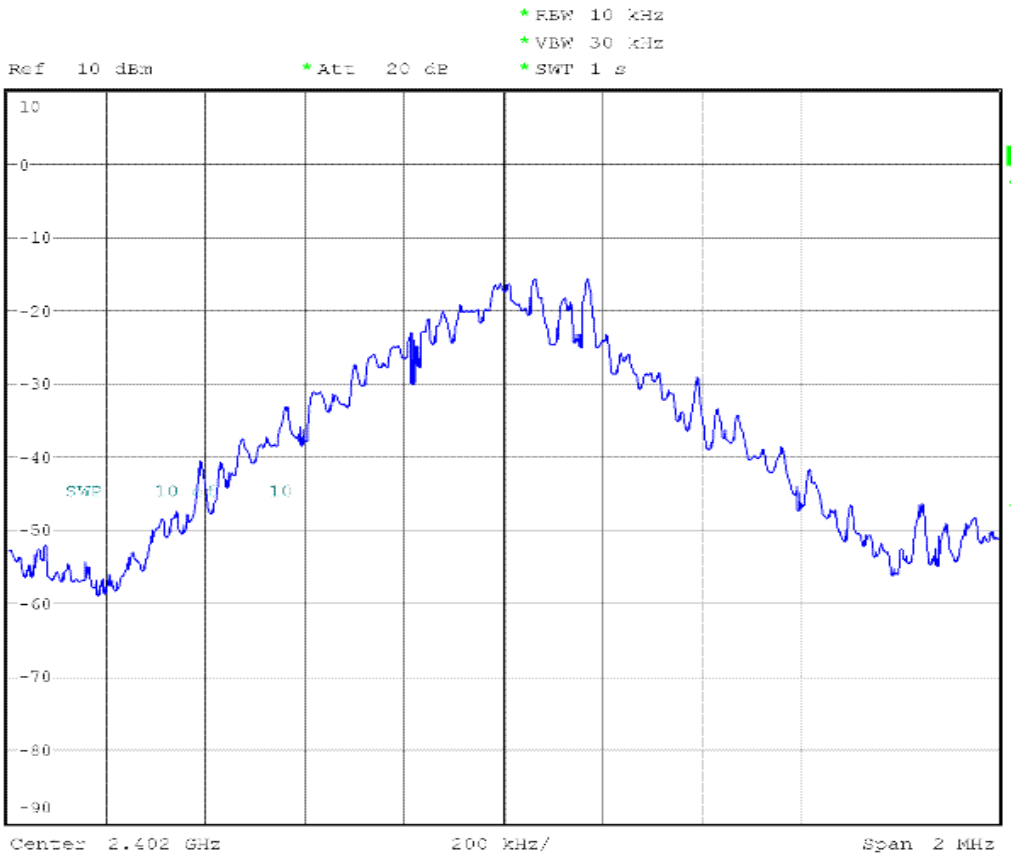
2.3.5. Test Case: TRM/CA/05/C - TX Output Spectrum - 20 dB Bandwidth

Expected Outcome:

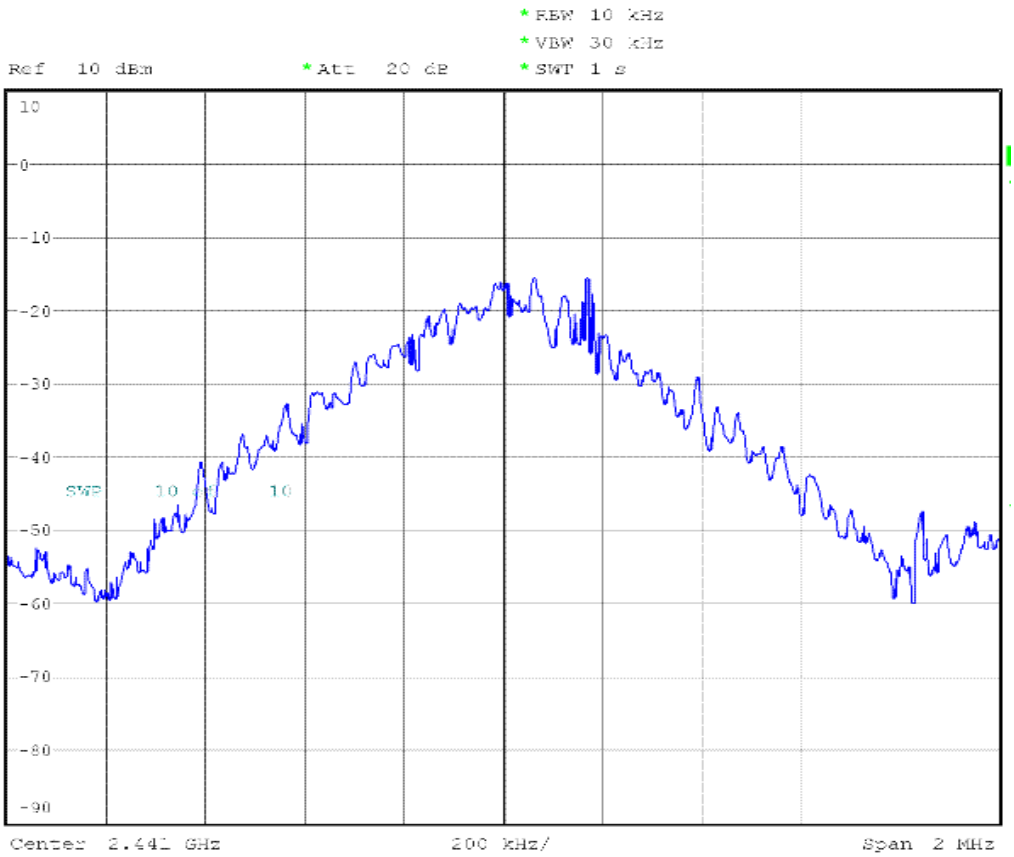
All values as measured must fulfill the following conditions:

1.The Transmit spectrum shall fulfill the following mask :Δf = |fH - fL| ≤ 1.0 MHz

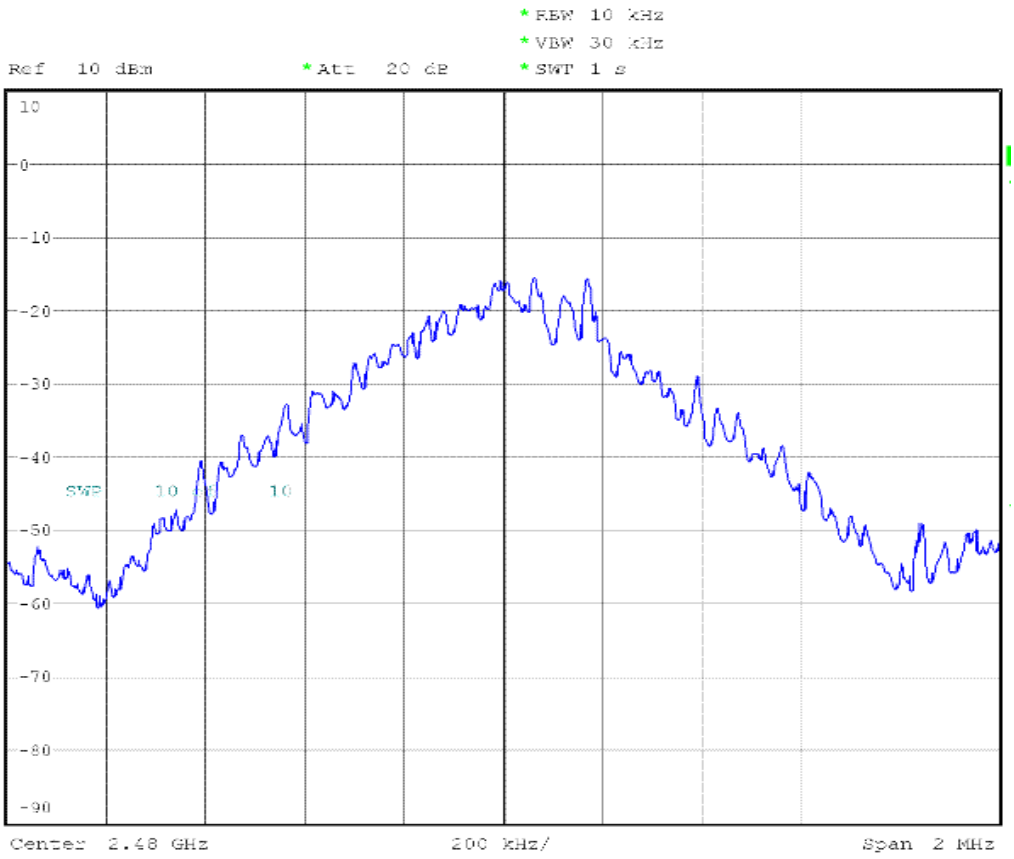
Test Frequency (MHz)		fL (MHz)	fH (MHz)	Δ f = | fH - fL | (MHz)	Limit	Verdict
Low Frequency	2402	2401.55	2402.48	0.93	≤1.0	Pass
Mid Frequency	2441	2440.60	2441.37	0.76	≤1.0	Pass
High Frequency	2480	2479.60	2480.37	0.76	≤1.0	Pass



TX Output Spectrum – 20 dB Bandwidth (Low Frequency)



TX Output Spectrum – 20 dB Bandwidth (Mid Frequency)



TX Output Spectrum – 20 dB Bandwidth (High Frequency)

2.3.6. Test Case: TRM/CA/06/C - TX Output Spectrum - Adjacent Channel Power

Expected Outcome:

All values as measured must fulfill the following conditions:

For each operating frequency exceptions in up to three bands of 1 MHz width centered on a frequency which is an integer multiple of 1 MHz are allowed. They must however comply with an absolute value of –20 dBm.

1. Ptx (f) ≤ – 20 dBm for | M-N | = 2
2. Ptx (f) ≤ – 40 dBm for | M-N | ≥ 3

Test Frequency (MHz)	Adjacent Channel Frequency (MHz)	Ptx(f) (dBm)	Limit (dBm)	Verdict
Low Frequency (2402 MHz)	2402	-51.60	≤ -40	Pass
	2403	-45.90	≤ -20	Pass
	2404	-26.69	N/A	N/A
	2405	-0.53	N/A	N/A
	2406	-25.94	N/A	N/A

	2407	-45.70	≤ -20	Pass
	2408	-50.38	≤ -40	Pass
	2409	-61.00	≤ -40	Pass
	2410	-62.62	≤ -40	Pass
	2411	-61.45	≤ -40	Pass
	2412	-63.33	≤ -40	Pass
	2413	-61.88	≤ -40	Pass
	2414	-63.83	≤ -40	Pass
	2415	-64.22	≤ -40	Pass
	2416	-64.51	≤ -40	Pass
	2417	-63.93	≤ -40	Pass
	2418	-64.64	≤ -40	Pass
	2419	-64.74	≤ -40	Pass
	2420	-64.85	≤ -40	Pass
	2421	-61.02	≤ -40	Pass
	2422	-64.96	≤ -40	Pass
	2423	-64.43	≤ -40	Pass
	2424	-65.13	≤ -40	Pass
	2425	-64.77	≤ -40	Pass
	2426	-65.28	≤ -40	Pass
	2427	-65.25	≤ -40	Pass
	2428	-65.31	≤ -40	Pass
	2429	-65.24	≤ -40	Pass
	2430	-65.60	≤ -40	Pass
	2431	-62.36	≤ -40	Pass
	2432	-65.39	≤ -40	Pass
	2433	-65.32	≤ -40	Pass
	2434	-65.59	≤ -40	Pass
	2435	-65.73	≤ -40	Pass
	2436	-65.64	≤ -40	Pass
	2437	-65.01	≤ -40	Pass
	2438	-65.90	≤ -40	Pass
	2439	-65.58	≤ -40	Pass
	2440	-65.66	≤ -40	Pass
	2441	-65.79	≤ -40	Pass
	2442	-65.88	≤ -40	Pass
	2443	-65.95	≤ -40	Pass
	2444	-65.86	≤ -40	Pass

	2445	-65.69	≤ -40	Pass
	2446	-65.83	≤ -40	Pass
	2447	-65.77	≤ -40	Pass
	2448	-65.89	≤ -40	Pass
	2449	-65.54	≤ -40	Pass
	2450	-65.72	≤ -40	Pass
	2451	-65.90	≤ -40	Pass
	2452	-65.91	≤ -40	Pass
	2453	-65.44	≤ -40	Pass
	2454	-65.84	≤ -40	Pass
	2455	-65.62	≤ -40	Pass
	2456	-65.79	≤ -40	Pass
	2457	-65.79	≤ -40	Pass
	2458	-65.93	≤ -40	Pass
	2459	-65.78	≤ -40	Pass
	2460	-65.75	≤ -40	Pass
	2461	-65.74	≤ -40	Pass
	2462	-65.88	≤ -40	Pass
	2463	-65.77	≤ -40	Pass
	2464	-65.78	≤ -40	Pass
	2465	-65.54	≤ -40	Pass
	2466	-65.56	≤ -40	Pass
	2467	-65.70	≤ -40	Pass
	2468	-65.71	≤ -40	Pass
	2469	-64.47	≤ -40	Pass
	2470	-65.60	≤ -40	Pass
	2471	-65.52	≤ -40	Pass
	2472	-65.58	≤ -40	Pass
	2473	-65.48	≤ -40	Pass
	2474	-65.55	≤ -40	Pass
	2475	-64.25	≤ -40	Pass
	2476	-60.86	≤ -40	Pass
	2477	-40.27	≤ -40	Pass
	2478	-64.18	≤ -40	Pass
	2479	-65.69	≤ -40	Pass
	2480	-65.69	≤ -40	Pass
Mid Frequency (2441 MHz)	2402	-65.50	≤ -40	Pass
	2403	-64.11	≤ -40	Pass

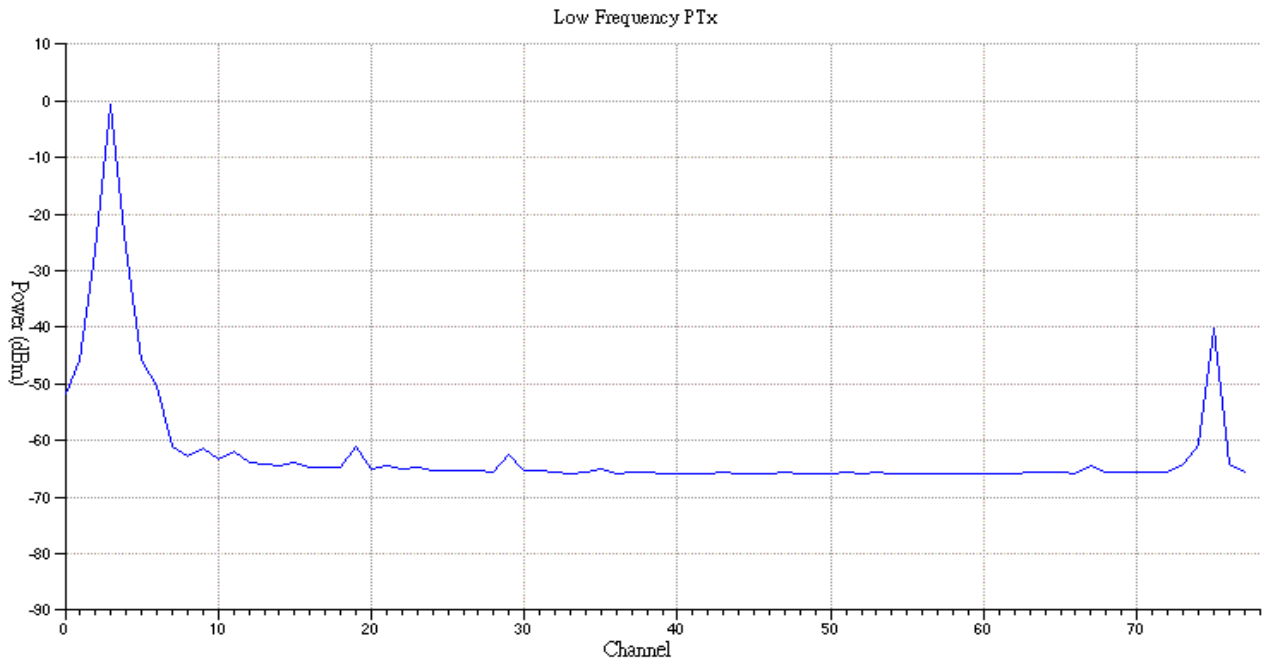
	2404	-56.75	≤ -40	Pass
	2405	-33.07	≤ -40	Fail
	2406	-60.78	≤ -40	Pass
	2407	-65.58	≤ -40	Pass
	2408	-65.42	≤ -40	Pass
	2409	-56.89	≤ -40	Pass
	2410	-65.40	≤ -40	Pass
	2411	-65.45	≤ -40	Pass
	2412	-65.23	≤ -40	Pass
	2413	-64.63	≤ -40	Pass
	2414	-65.42	≤ -40	Pass
	2415	-61.40	≤ -40	Pass
	2416	-65.06	≤ -40	Pass
	2417	-64.79	≤ -40	Pass
	2418	-65.04	≤ -40	Pass
	2419	-64.95	≤ -40	Pass
	2420	-64.78	≤ -40	Pass
	2421	-63.78	≤ -40	Pass
	2422	-64.88	≤ -40	Pass
	2423	-64.79	≤ -40	Pass
	2424	-64.75	≤ -40	Pass
	2425	-61.11	≤ -40	Pass
	2426	-64.58	≤ -40	Pass
	2427	-64.56	≤ -40	Pass
	2428	-64.62	≤ -40	Pass
	2429	-63.54	≤ -40	Pass
	2430	-63.78	≤ -40	Pass
	2431	-62.75	≤ -40	Pass
	2432	-63.78	≤ -40	Pass
	2433	-62.72	≤ -40	Pass
	2434	-62.82	≤ -40	Pass
	2435	-59.15	≤ -40	Pass
	2436	-60.72	≤ -40	Pass
	2437	-60.09	≤ -40	Pass
	2438	-53.00	≤ -40	Pass
	2439	-46.74	≤ -20	Pass
	2440	-26.79	N/A	N/A
	2441	-0.55	N/A	N/A

	2442	-26.21	N/A	N/A
	2443	-46.74	≤ -20	Pass
	2444	-51.23	≤ -40	Pass
	2445	-59.50	≤ -40	Pass
	2446	-61.79	≤ -40	Pass
	2447	-61.80	≤ -40	Pass
	2448	-63.44	≤ -40	Pass
	2449	-63.50	≤ -40	Pass
	2450	-64.15	≤ -40	Pass
	2451	-62.97	≤ -40	Pass
	2452	-64.18	≤ -40	Pass
	2453	-64.07	≤ -40	Pass
	2454	-64.96	≤ -40	Pass
	2455	-64.92	≤ -40	Pass
	2456	-64.86	≤ -40	Pass
	2457	-60.94	≤ -40	Pass
	2458	-65.12	≤ -40	Pass
	2459	-65.32	≤ -40	Pass
	2460	-64.92	≤ -40	Pass
	2461	-64.74	≤ -40	Pass
	2462	-64.92	≤ -40	Pass
	2463	-65.17	≤ -40	Pass
	2464	-65.16	≤ -40	Pass
	2465	-65.22	≤ -40	Pass
	2466	-65.22	≤ -40	Pass
	2467	-62.13	≤ -40	Pass
	2468	-65.32	≤ -40	Pass
	2469	-65.07	≤ -40	Pass
	2470	-65.26	≤ -40	Pass
	2471	-65.24	≤ -40	Pass
	2472	-65.30	≤ -40	Pass
	2473	-64.32	≤ -40	Pass
	2474	-65.43	≤ -40	Pass
	2475	-65.25	≤ -40	Pass
	2476	-65.29	≤ -40	Pass
	2477	-65.25	≤ -40	Pass
	2478	-65.36	≤ -40	Pass
	2479	-65.39	≤ -40	Pass

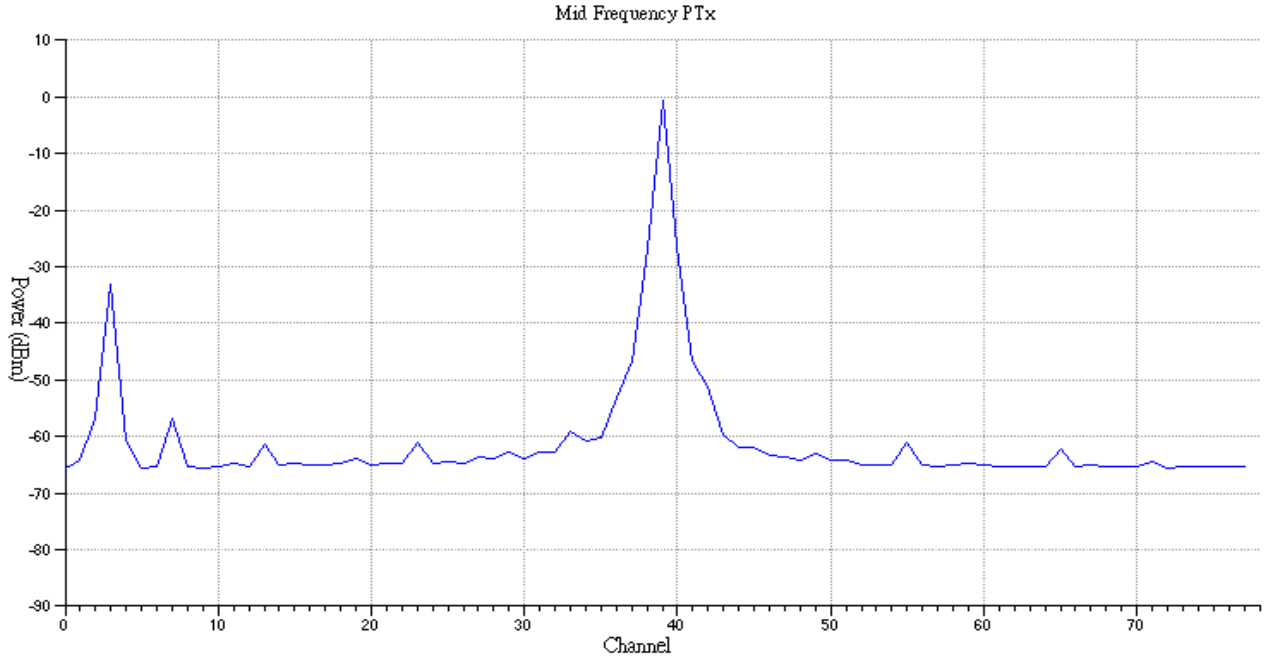
	2480	-65.40	≤ -40	Pass
High Frequency (2480 MHz)	2402	-65.80	≤ -40	Pass
	2403	-64.19	≤ -40	Pass
	2404	-58.81	≤ -40	Pass
	2405	-35.85	≤ -40	Fail
	2406	-62.71	≤ -40	Pass
	2407	-65.77	≤ -40	Pass
	2408	-65.96	≤ -40	Pass
	2409	-65.73	≤ -40	Pass
	2410	-65.87	≤ -40	Pass
	2411	-65.93	≤ -40	Pass
	2412	-65.80	≤ -40	Pass
	2413	-61.61	≤ -40	Pass
	2414	-65.99	≤ -40	Pass
	2415	-65.84	≤ -40	Pass
	2416	-65.76	≤ -40	Pass
	2417	-65.71	≤ -40	Pass
	2418	-65.86	≤ -40	Pass
	2419	-65.82	≤ -40	Pass
	2420	-66.03	≤ -40	Pass
	2421	-65.82	≤ -40	Pass
	2422	-65.77	≤ -40	Pass
	2423	-66.01	≤ -40	Pass
	2424	-65.88	≤ -40	Pass
	2425	-65.47	≤ -40	Pass
	2426	-65.87	≤ -40	Pass
	2427	-65.90	≤ -40	Pass
	2428	-65.85	≤ -40	Pass
	2429	-64.19	≤ -40	Pass
	2430	-65.78	≤ -40	Pass
	2431	-65.91	≤ -40	Pass
	2432	-65.86	≤ -40	Pass
	2433	-65.57	≤ -40	Pass
	2434	-65.90	≤ -40	Pass
	2435	-65.72	≤ -40	Pass
	2436	-65.90	≤ -40	Pass
	2437	-65.08	≤ -40	Pass
	2438	-65.78	≤ -40	Pass

	2439	-65.63	≤ -40	Pass
	2440	-65.69	≤ -40	Pass
	2441	-64.94	≤ -40	Pass
	2442	-65.57	≤ -40	Pass
	2443	-65.55	≤ -40	Pass
	2444	-65.58	≤ -40	Pass
	2445	-56.77	≤ -40	Pass
	2446	-65.63	≤ -40	Pass
	2447	-65.58	≤ -40	Pass
	2448	-65.38	≤ -40	Pass
	2449	-64.63	≤ -40	Pass
	2450	-65.16	≤ -40	Pass
	2451	-61.73	≤ -40	Pass
	2452	-65.15	≤ -40	Pass
	2453	-65.04	≤ -40	Pass
	2454	-65.17	≤ -40	Pass
	2455	-64.79	≤ -40	Pass
	2456	-64.88	≤ -40	Pass
	2457	-63.80	≤ -40	Pass
	2458	-64.80	≤ -40	Pass
	2459	-64.87	≤ -40	Pass
	2460	-64.81	≤ -40	Pass
	2461	-61.49	≤ -40	Pass
	2462	-64.52	≤ -40	Pass
	2463	-63.72	≤ -40	Pass
	2464	-64.39	≤ -40	Pass
	2465	-63.03	≤ -40	Pass
	2466	-64.22	≤ -40	Pass
	2467	-64.11	≤ -40	Pass
	2468	-63.66	≤ -40	Pass
	2469	-62.20	≤ -40	Pass
	2470	-62.60	≤ -40	Pass
	2471	-59.16	≤ -40	Pass
	2472	-61.10	≤ -40	Pass
	2473	-60.12	≤ -40	Pass
	2474	-53.25	≤ -40	Pass
	2475	-47.44	≤ -20	Pass
	2476	-26.63	N/A	N/A

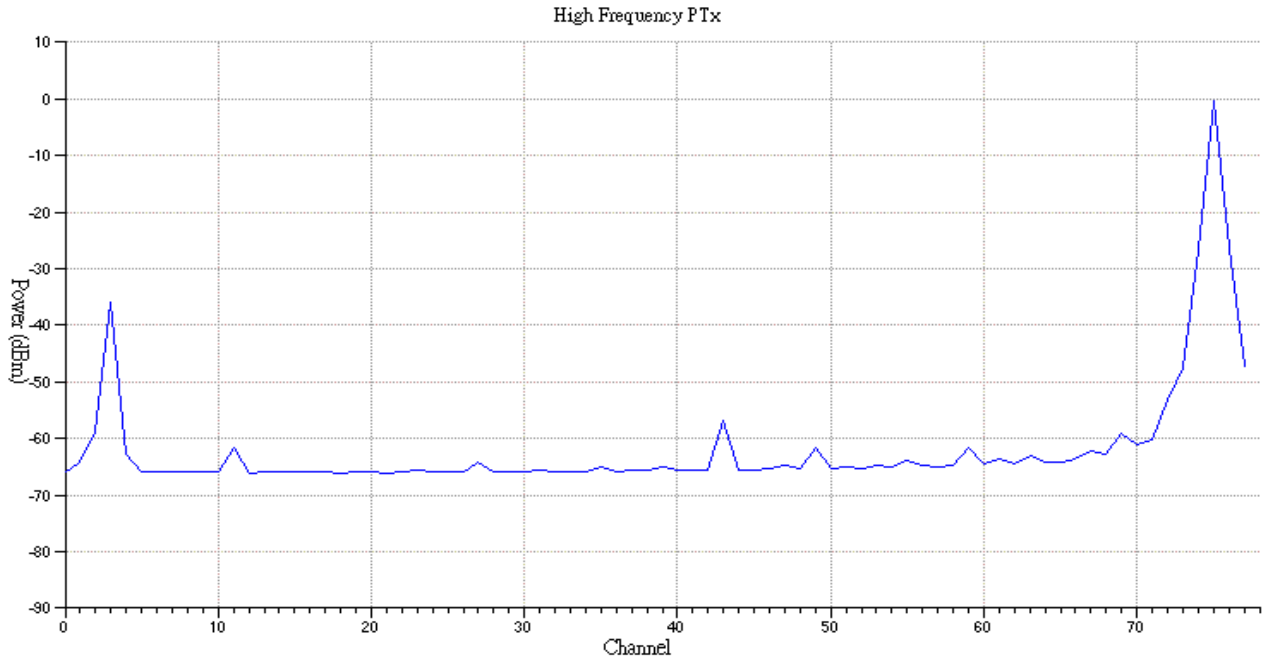
	2477	-0.37	N/A	N/A
	2478	-26.21	N/A	N/A
	2479	-47.17	≤ -20	Pass
	2480	-51.60	≤ -40	Pass



TX Output Spectrum – Adjacent channel power（Low Frequency)



TX Output Spectrum – Adjacent channel power (Mid Frequency)



TX Output Spectrum – Adjacent channel power (High Frequency)

2.3.7. Test Case: TRM/CA/07/C - Modulation Characteristics

Expected Outcome:

All values as measured must fulfill the following conditions:

1. 140 kHz ≤ Δf1avg ≤ 175 kHz
2. Δf2max ≥ 115 kHz for at least 99.9% of all Δf2max
3. Δf2avg/Δf1avg ≥ 0.8

Test Frequency (MHz)	Packet Number	Test Parameter	Result	Limit	Verdict
Low operating Frequency (2402 MHz)	1	Δ f1avg (kHz)	157.21	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	174.97	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.95	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	2	Δ f1avg (kHz)	161.17	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	178.15	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	168.09	N/A	N/A
		Δ f2avg/Δf1avg	1.04	≥ 0.8	Pass
	3	Δ f1avg (kHz)	157.97	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	175.25	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	167.20	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	4	Δ f1avg (kHz)	157.76	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	183.95	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	168.55	N/A	N/A
		Δ f2avg/Δf1avg	1.07	≥ 0.8	Pass
	5	Δ f1avg (kHz)	157.93	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	175.96	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	166.73	N/A	N/A
		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	6	Δ f1avg (kHz)	157.32	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	178.34	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	167.47	N/A	N/A

		Δ f2avg/Δf1avg	1.06	≥ 0.8	Pass
	7	Δ f1avg (kHz)	157.27	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	165.32	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.60	N/A	N/A
		Δ f2avg/Δf1avg	1	≥ 0.8	Pass
	8	Δ f1avg (kHz)	167.38	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.18	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.23	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	9	Δ f1avg (kHz)	164.94	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.30	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.88	N/A	N/A
		Δ f2avg/Δf1avg	0.96	≥ 0.8	Pass
	10	Δ f1avg (kHz)	161.05	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.77	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.65	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
Mid operating Frequency (2441 MHz)	1	Δ f1avg (kHz)	161.50	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.21	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.43	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
	2	Δ f1avg (kHz)	160.86	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.82	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.77	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
	3	Δ f1avg (kHz)	169.90	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.53	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.97	N/A	N/A
		Δ f2avg/Δf1avg	0.92	≥ 0.8	Pass
	4	Δ f1avg (kHz)	160.35	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.55	≥ 115 kHz	Pass

		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.37	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	5	Δ f1avg (kHz)	160.55	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.95	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.04	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	6	Δ f1avg (kHz)	164.91	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.00	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.07	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	7	Δ f1avg (kHz)	160.84	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.98	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.29	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	8	Δ f1avg (kHz)	163.22	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.08	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	156.24	N/A	N/A
		Δ f2avg/Δf1avg	0.96	≥ 0.8	Pass
	9	Δ f1avg (kHz)	161.49	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.99	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.47	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	10	Δ f1avg (kHz)	161.34	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.94	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.31	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
High operating Frequency (2480 MHz)	1	Δ f1avg (kHz)	161.43	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.98	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.96	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass

	2	Δ f1avg (kHz)	164.49	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.49	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.62	N/A	N/A
		Δ f2avg/Δf1avg	0.96	≥ 0.8	Pass
	3	Δ f1avg (kHz)	166.20	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	166.74	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.86	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	4	Δ f1avg (kHz)	161.24	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	164.98	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.14	N/A	N/A
		Δ f2avg/Δf1avg	0.98	≥ 0.8	Pass
	5	Δ f1avg (kHz)	161.09	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	169.40	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.90	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass
	6	Δ f1avg (kHz)	168.32	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	172.55	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.32	N/A	N/A
		Δ f2avg/Δf1avg	0.94	≥ 0.8	Pass
	7	Δ f1avg (kHz)	163.62	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	168.18	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.07	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
	8	Δ f1avg (kHz)	162.34	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	167.18	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	157.76	N/A	N/A
		Δ f2avg/Δf1avg	0.97	≥ 0.8	Pass
	9	Δ f1avg (kHz)	165.30	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	170.24	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass

		Δ f2avg(kHz)	157.78	N/A	N/A
		Δ f2avg/Δf1avg	0.95	≥ 0.8	Pass
	10	Δ f1avg (kHz)	161.17	140 kHz≤Δf1avg≤175 kHz	Pass
		Δ f2max (kHz)	173.11	≥ 115 kHz	Pass
		Δ f2max(%)	100%	≥99.9%	Pass
		Δ f2avg(kHz)	158.87	N/A	N/A
		Δ f2avg/Δf1avg	0.99	≥ 0.8	Pass

2.3.8. Test Case: TRM/CA/08/C - Initial Carrier Frequency Tolerance

Expected Outcome:

All values as measured must fulfill the following conditions:

Each of the EUT's carrier frequency f0 as measured must be within ±75kHz from the Eut's chosen nominal carrier frequency fTX

1. fTX – 75 kHz ≤ f 0 ≤ fTX + 75 kHz.

Test Frequency (MHz)	Packets No.	Carrier Frequency (KHz)	Limit (kHz)	Verdict
Low operating Frequency (2402 MHz)	1	-2.98	-75≤ f0 ≤ +75	Pass
	2	-0.64	-75≤ f0 ≤ +75	Pass
	3	-3.25	-75≤ f0 ≤ +75	Pass
	4	4.57	-75≤ f0 ≤ +75	Pass
	5	-5.78	-75≤ f0 ≤ +75	Pass
	6	1.36	-75≤ f0 ≤ +75	Pass
	7	5.95	-75≤ f0 ≤ +75	Pass
	8	5.92	-75≤ f0 ≤ +75	Pass
	9	-1.35	-75≤ f0 ≤ +75	Pass
	10	-2.86	-75≤ f0 ≤ +75	Pass
Mid operating Frequency (2441 MHz)	1	-2.57	-75≤ f0 ≤ +75	Pass
	2	-4.20	-75≤ f0 ≤ +75	Pass
	3	-13.18	-75≤ f0 ≤ +75	Pass
	4	-1.26	-75≤ f0 ≤ +75	Pass
	5	-1.80	-75≤ f0 ≤ +75	Pass
	6	-2.94	-75≤ f0 ≤ +75	Pass
	7	-3.79	-75≤ f0 ≤ +75	Pass
	8	-5.45	-75≤ f0 ≤ +75	Pass
	9	-1.63	-75≤ f0 ≤ +75	Pass
	10	-4.43	-75≤ f0 ≤ +75	Pass
High operating	1	-5.53	-75≤ f0 ≤ +75	Pass

Frequency (2480 MHz)	2	-12.64	-75≤ f0 ≤ +75	Pass
	3	-10.97	-75≤ f0 ≤ +75	Pass
	4	-1.84	-75≤ f0 ≤ +75	Pass
	5	-9.43	-75≤ f0 ≤ +75	Pass
	6	-6.94	-75≤ f0 ≤ +75	Pass
	7	-6.47	-75≤ f0 ≤ +75	Pass
	8	-7.73	-75≤ f0 ≤ +75	Pass
	9	-6.08	-75≤ f0 ≤ +75	Pass
	10	0.00	-75≤ f0 ≤ +75	Pass

2.3.9. Test Case: TRM/CA/09/C - Carrier Frequency Drift

Expected Outcome:

All values as measured must fulfill the following conditions:

1. One slot packet -25kHz≤ MAX Frequency Drift ≤+25kHz
2. Three slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
3. Five slot packet -40kHz≤ MAX Frequency Drift ≤+40kHz
4. The maximum drift rate is 20000 Hz / 50μs.

Packet Type: DH1

Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	2.80	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.77	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	3.95	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.74	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-4.82	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.98	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-6.50	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	7.83	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-2.98	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	3.42	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-4.59	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	3.78	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.43	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	4.82	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-3.83	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	4.21	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	3.42	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	3.34	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	3.91	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.61	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	-3.43	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	2.67	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	4.55	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	4.68	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-7.74	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	7.93	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-4.27	-25≤ fmax≤+25	Pass

	4	Maximum Drift Rate(kHz/50μs)	3.45	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.16	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	4.11	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-11.55	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	12.22	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.10	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.36	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	4.44	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	2.96	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	4.55	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.83	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-7.07	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	9.03	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-3.86	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	4.34	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.07	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	6.28	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	4.41	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	5.86	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-7.08	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	10.58	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-9.18	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	8.70	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	4.35	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	4.38	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-12.83	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	16.15	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.52	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	8.94	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-6.84	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	9.29	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-3.75	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	3.69	≤ 20	Pass
Packet Type: DH3					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency	1	MAX Frequency Drift(kHz)	4.21	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.51	≤ 20	Pass

(2402 MHz)	2	MAX Frequency Drift(kHz)	-5.24	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.47	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-5.44	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	4.70	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-4.23	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.27	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	4.20	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	4.39	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-4.66	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	5.09	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	6.34	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	7.14	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-5.92	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.54	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	4.43	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.57	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.93	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	7.95	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	7.01	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	7.01	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-6.08	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.08	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-5.60	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	5.96	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-9.27	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	7.25	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-9.44	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	10.79	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-4.83	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	7.71	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.74	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	8.03	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	3.99	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.98	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	4.52	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.00	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-5.19	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	4.86	≤ 20	Pass

High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-10.45	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	9.53	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-9.42	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	9.32	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	-7.28	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	7.32	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-4.76	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	6.74	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.75	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	5.79	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-9.94	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	10.42	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-5.56	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	6.54	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-6.35	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	7.17	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-9.88	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	11.72	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	-6.15	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	6.65	≤ 20	Pass
Packet Type: DH5					
Test Frequency (MHz)	Packets No.	Result		Limit (%)	Verdict
Low operating Frequency (2402 MHz)	1	MAX Frequency Drift(kHz)	4.67	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	5.63	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.83	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	5.95	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	5.26	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	8.41	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	4.63	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	5.26	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	4.83	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	6.62	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	5.52	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	6.03	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	5.54	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	5.90	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	-4.97	-25≤ fmax≤+25	Pass

	8	Maximum Drift Rate(kHz/50μs)	8.37	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	5.11	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.62	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	4.85	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	5.13	≤ 20	Pass
Mid operating Frequency (2441 MHz)	1	MAX Frequency Drift(kHz)	4.37	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.53	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	5.39	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	9.09	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	4.39	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.03	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-7.82	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	9.98	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	5.54	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	5.24	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-5.99	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	8.30	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-8.18	-25≤ fmax≤+25	Pass
	7	Maximum Drift Rate(kHz/50μs)	11.41	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	5.95	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	7.67	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-10.68	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	13.14	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	6.18	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	6.12	≤ 20	Pass
High operating Frequency (2480 MHz)	1	MAX Frequency Drift(kHz)	-6.70	-25≤ fmax≤+25	Pass
	1	Maximum Drift Rate(kHz/50μs)	6.18	≤ 20	Pass
	2	MAX Frequency Drift(kHz)	-5.72	-25≤ fmax≤+25	Pass
	2	Maximum Drift Rate(kHz/50μs)	7.20	≤ 20	Pass
	3	MAX Frequency Drift(kHz)	5.26	-25≤ fmax≤+25	Pass
	3	Maximum Drift Rate(kHz/50μs)	6.54	≤ 20	Pass
	4	MAX Frequency Drift(kHz)	-7.70	-25≤ fmax≤+25	Pass
	4	Maximum Drift Rate(kHz/50μs)	9.68	≤ 20	Pass
	5	MAX Frequency Drift(kHz)	-4.97	-25≤ fmax≤+25	Pass
	5	Maximum Drift Rate(kHz/50μs)	6.70	≤ 20	Pass
	6	MAX Frequency Drift(kHz)	-6.90	-25≤ fmax≤+25	Pass
	6	Maximum Drift Rate(kHz/50μs)	6.94	≤ 20	Pass
	7	MAX Frequency Drift(kHz)	-10.46	-25≤ fmax≤+25	Pass

	7	Maximum Drift Rate(kHz/50μs)	11.08	≤ 20	Pass
	8	MAX Frequency Drift(kHz)	5.17	-25≤ fmax≤+25	Pass
	8	Maximum Drift Rate(kHz/50μs)	5.43	≤ 20	Pass
	9	MAX Frequency Drift(kHz)	-4.74	-25≤ fmax≤+25	Pass
	9	Maximum Drift Rate(kHz/50μs)	6.63	≤ 20	Pass
	10	MAX Frequency Drift(kHz)	5.16	-25≤ fmax≤+25	Pass
	10	Maximum Drift Rate(kHz/50μs)	6.68	≤ 20	Pass

2.3.10. Test Case: RCV/CA/01/C - Sensitivity - Single Slot Packets

Expected Outcome:

All values as measured must fulfill the following conditions.

1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.)

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

2.3.11. Test Case: RCV/CA/02/C - Sensitivity - Multi-Slot Packets

Expected Outcome:

All values as measured must fulfill the following conditions.

1. BER ≤ 0.1% (minimum number of samples, 1,600,000 returned payload bits.

Test Frequency (MHz)	BER (%)	Limit (%)	Verdict
2402	0.00	≤0.1	Pass
2441	0.00	≤0.1	Pass
2480	0.00	≤0.1	Pass

Appendix: Test Data

Test Data for RF Testing： Test Evidence for RF Test.zip