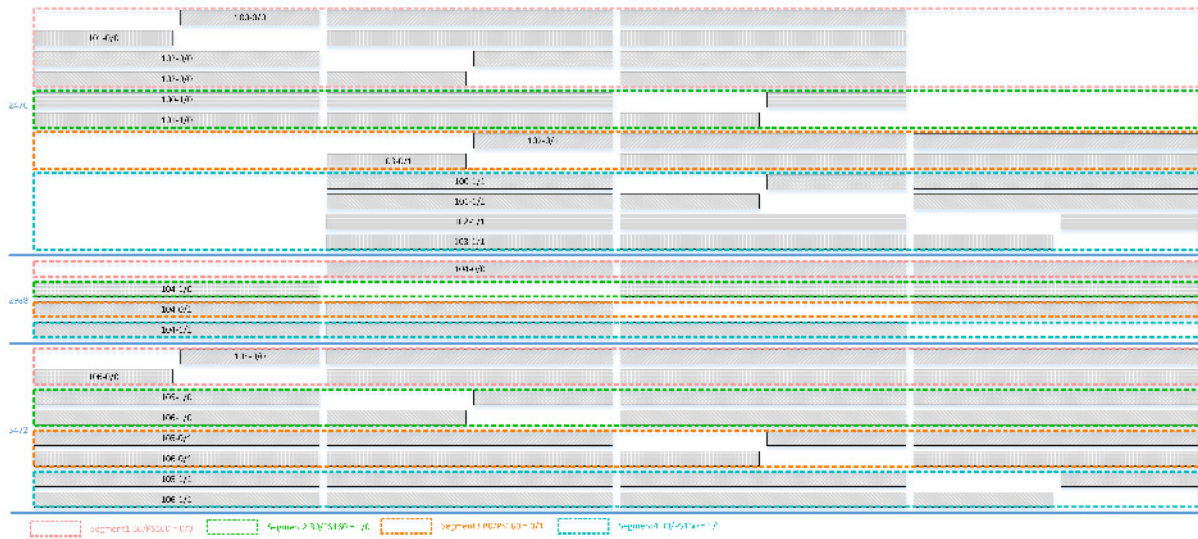




- Set data rate
- Set MU NSS/LDPC/stream index/length
 "MU Nss=1" for Antenna number.
 Set LDPC or non-LDPC to do transmitting.
 Set "Nss=1" to do transmitting.
 Set "stream index=1"
 Refer to the "Length" from below table. (For example, set to 128 at RU26/MCS0.....)

RU size	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	128	256	512	512	1024	1024	1024	1024	1024	2048	2048	2048	2048	2048		32
52	256	512	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024		64
78	384	768	1536	1536	1536	1536	1536	1536	1536	1536	1536	1536	1536	1536		96
106	512	1024	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048		128
132	768	1536	3072	3072	3072	3072	3072	3072	3072	3072	3072	3072	3072	3072		192
BW20 - 242	1024	2048	4096	4096	4096	4096	4096	4096	4096	4096	4096	4096	4096	4096		256
BW40 - 484	2048	4096	8192	8192	8192	8192	8192	8192	8192	8192	8192	8192	8192	8192		512
484+242	3072	6144	12288	12288	12288	12288	12288	12288	12288	12288	12288	12288	12288	12288		768
BW80 - 996	4096	8192	16384	16384	16384	16384	16384	16384	16384	16384	16384	16384	16384	16384	512	1024
996+484	6144	12288	24576	24576	24576	24576	24576	24576	24576	24576	24576	24576	24576	24576		1536
996+484+242	7168	14336	28672	28672	28672	28672	28672	28672	28672	28672	28672	28672	28672	28672		1792
BW160 - 996*2	8192	16384	32768	32768	32768	32768	32768	32768	32768	32768	32768	32768	32768	32768	1024	2048
996*2+484	10240	20480	40960	40960	40960	40960	40960	40960	40960	40960	40960	40960	40960	40960		2560
996*3	12288	24576	49152	49152	49152	49152	49152	49152	49152	49152	49152	49152	49152	49152		3072
996*3+484	14336	28672	57344	57344	57344	57344	57344	57344	57344	57344	57344	57344	57344	57344		3584
BW320 - 996*4	16384	32768	65536	65536	65536	65536	65536	65536	65536	65536	65536	65536	65536	65536	2048	4096

- Click "ADD" button to added test case.
- Click "SET" button to set test case.
- If user wanted to test another case can select origin test case and click "Remove" button to remove old case and resetting another case again.

MT7925 QA 0.0.2.99

TX/RX Band 0 | EEPROM | MAC BBP | RF Page | **RU Page** | About

RU

Select Band: **0**

a.

b.

c.

Category : **1: RU26*9**

Allocation (binary): **000000000**

Sta ID : **0**

d.

e.

MCS : **MCS7=7;**

PwrBoost Factor: **0**

f.

MU Nss: **1** LDPC: ☐ Nss: **2** Stream Idx: **1** Length: **128**

Disable

Disable

Disable

0: Disable

g.

Segment 0:

ADD

Category Allocation Sta ID RU Index Rates

1: RU26*9 000000... 0 7

Remove

i.

g.

Segment 1:

Category Allocation Sta ID RU Index Rates

ADD

Remove

Segment 2:

Category Allocation Sta ID RU Index Rates

ADD

Remove

Segment 3:

Category Allocation Sta ID RU Index Rates

ADD

Remove

SET

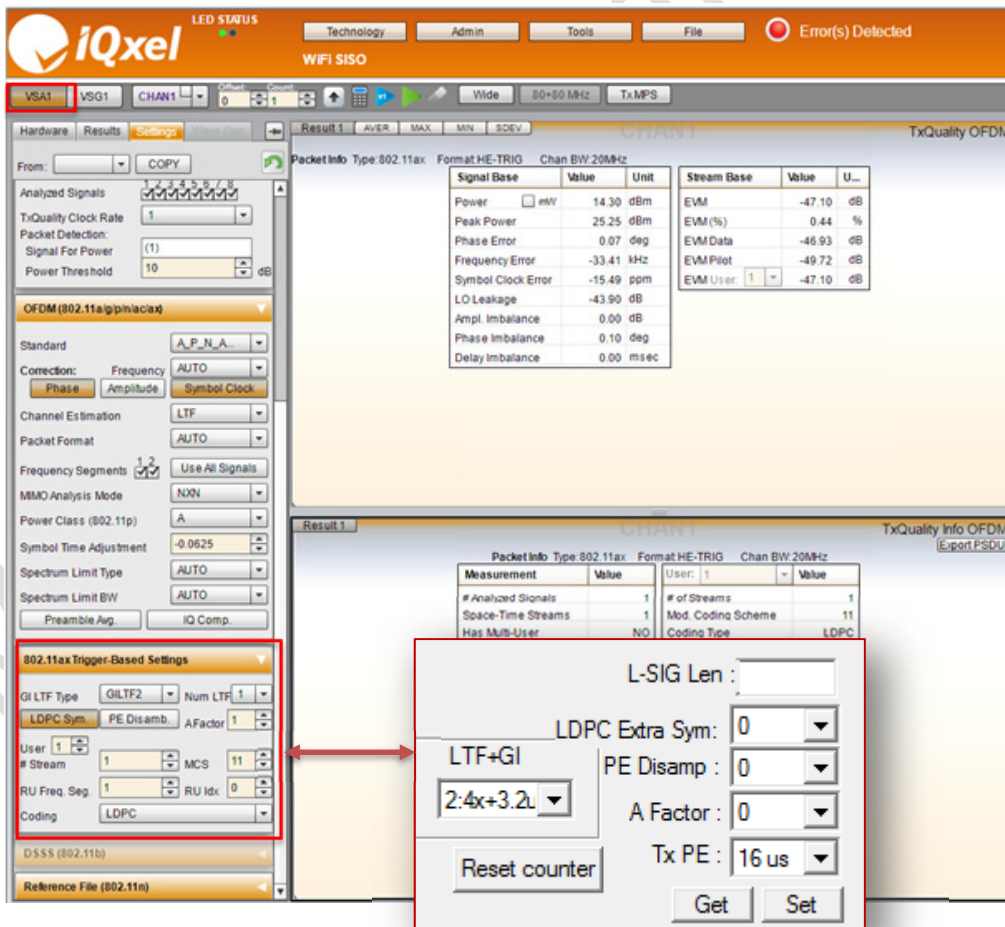
h.

Save to File Load from File Clear All

2.3.5 VSA Setting

Open Litepoint MW Web page select VSA
Setting RU info.

- litepoint GI LTF Type align to QAtool LTF+GI
- litepoint LDPC sym.(1=Orange light; 0=Gray light) align to QAtool LDPC Extra Sym
- litepoint PE Disamb.(1=Orange light; 0=Gray light) align to QAtool Tx PE
- A Factor:
 - If QAtool A Factor set =0, set litepoint A Factor =4
 - If QAtool A Factor set =1, set litepoint A Factor =1
 - If QAtool A Factor set =2, set litepoint A Factor =2
 - If QAtool A Factor set =3, set litepoint A Factor =3
- Litepoint Stream setting (1 or 2) align to QAtool RU-page stream setting.
- Litepoint MCS rate setting align to QAtool RU-page MCS setting.
- Litepoint RU idx setting align to QAtool RU-page RU index setting.
- If QAtool RU-page LDPC checked, set litepoint Coding : LDPC; Otherwise, set litepoint Coding : BCC.



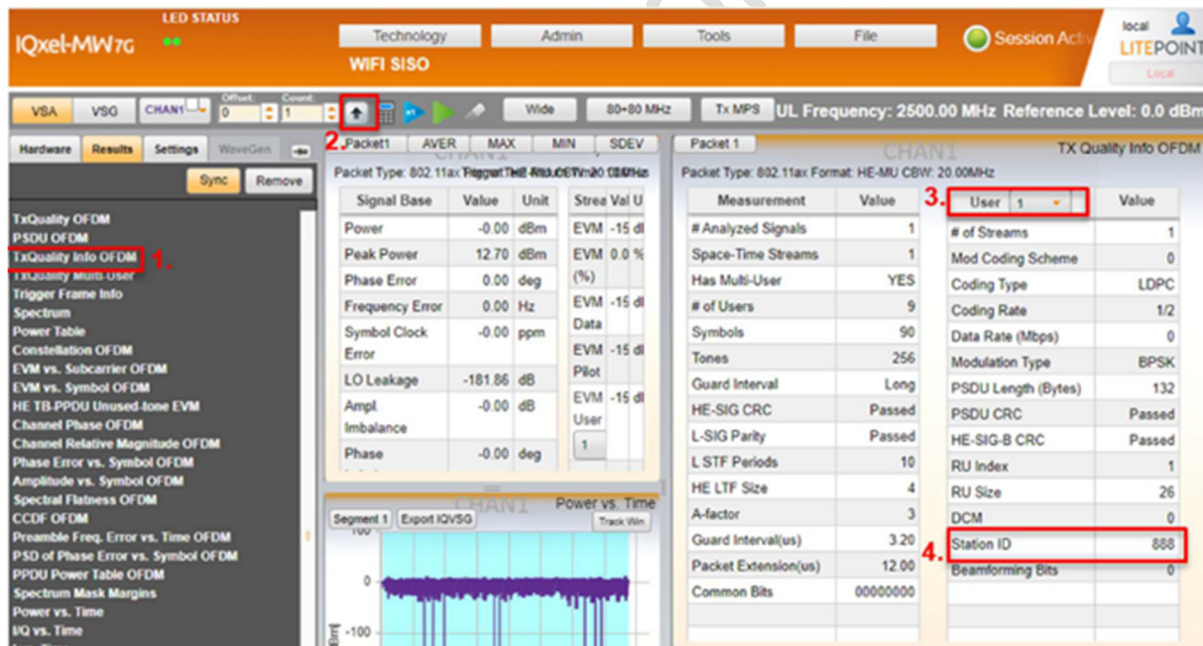
2.3.6 WIFI Packets Receiving –1 stream

On TX/RX page

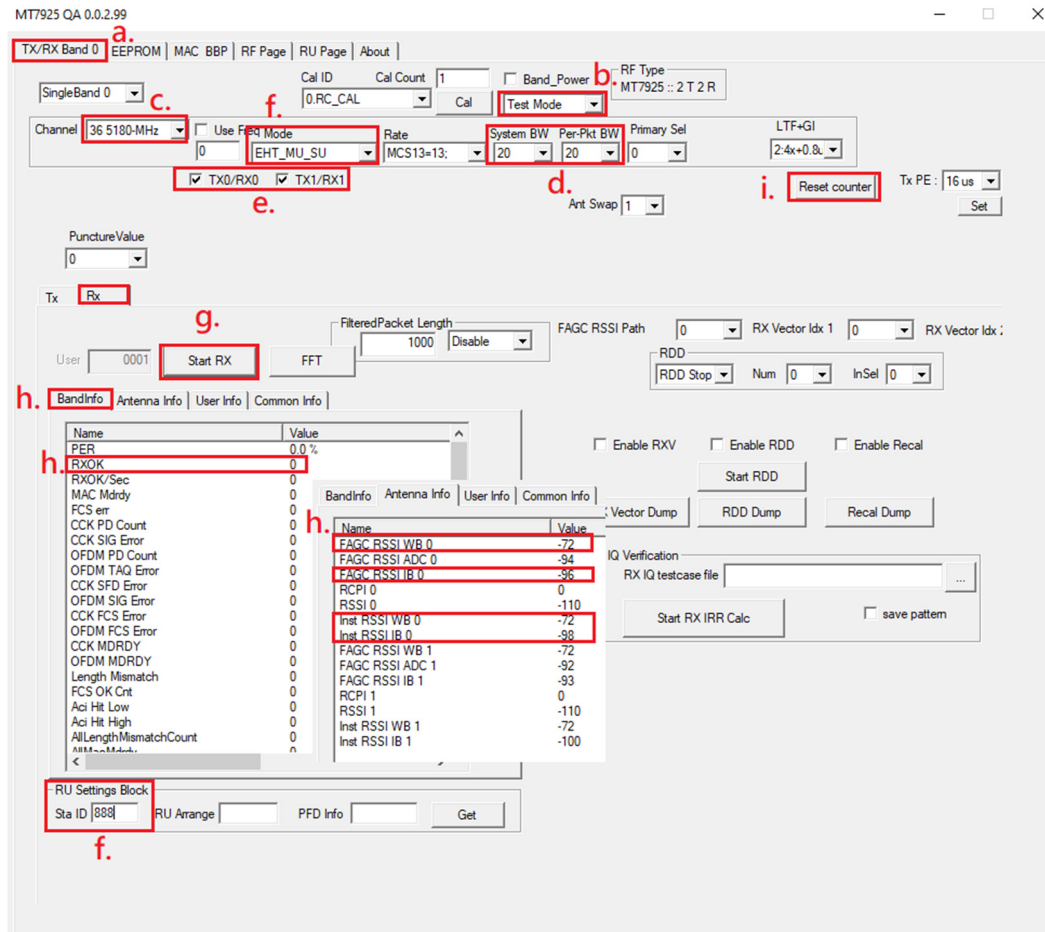
- Select “TX/RX Band0”.
- Select RX sub-page and “Test Mode” as following figure.
- Set Channel frequency.
- Set BW. (Generally, System BW = Pre-Packet BW).
- Choose “TX0/RX0” or TX1/RX1 to do receiving.
- Select HE_MU mode and Set RU Station ID (wanted RU location station ID) (this step for HE_MU/ EHT_MU_SU and the default sta ID is “888” or you can refer below step to check the correct sta ID)

Check Station ID of wanted RU (MRU follow RU):

- Setting RU info
 - Choose TxQuality Info OFDM
 - Load test waveform
 - Choose wanted RU user
 - RU check Station ID



- Click “Start RX” button to receive WIFI packets.
Enable WIFI signal generator to transmit packets. Click “Stop RX” button to stop receiving.
- Successful received packets number would be shown at “RX OK” area and RSSI shown at “inst RSSI IB 0” area.
- Users can click “Reset counter” button to reset counter value.



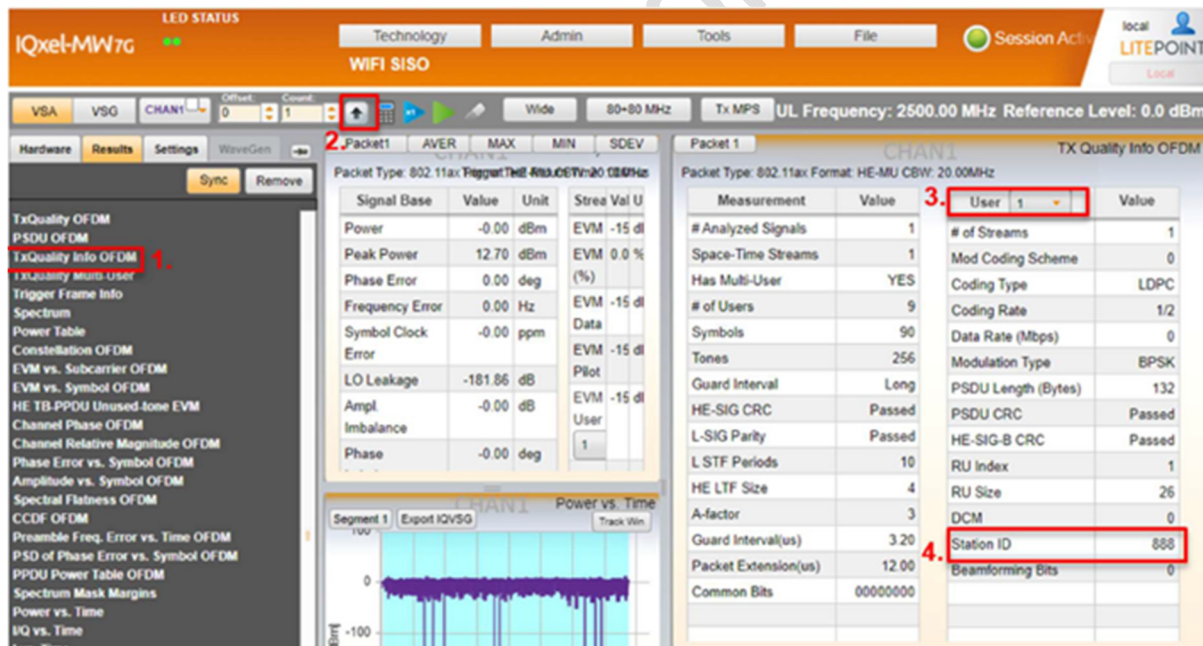
2.3.7 WIFI Packets Receiving –2 stream

On TX/RX page

- Select “TX/RX Band0”.
- Select RX sub-page and “Test Mode” as following figure.
- Set Channel frequency.
- Set BW. (Generally, System BW = Pre-Packet BW).
- Choose “TX0/RX0” and TX1/RX1 to do receiving.
- Select HE_MU mode and Set RU Station ID (wanted RU location station ID) (this step for HE_MU/ EHT_MU_SU and the default sta ID is “888” or you can refer below step to check the correct sta ID)

Check Station ID of wanted RU:

- Setting RU info
 - Choose TxQuality Info OFDM
 - Load test waveform
 - Choose wanted RU user
 - RU check Station ID



- Click “Start RX” button to receive WIFI packets.
Enable WIFI signal generator to transmit packets. Click “Stop RX” button to stop receiving.
- Successful received packets number would be shown at “RX OK” area and RSSI shown at “inst RSSI IB 0” area.

- i. Users can click “Reset counter” button to reset counter value.

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TX/RX Band 0 EEPROM MAC BBP RF Page RU Page About

SingleBand 0 Cal ID Cal Count 1 Band_Power RF Type MT7925 :: 2 T 2 R

Channel 36 5180-MHz Use Freq Mode Rate MCS13=13; System BW Per-Pkt BW Primary Sel LTF+GI

0 EHT_MU_SU 20 20 0 2.4x+0.8

☒ TX0/RX0 ☒ TX1/RX1 Ant Swap 1 Tx PE: 16 us

PunctureValue 0

Tx Rx

User 0001 Start RX FFT FilteredPacket Length 1000 Disable FAGC RSSI Path 0 RX Vector Idx 1 0 RX Vector Idx :

RDD RDD Stop Num 0 InSel 0

h. BandInfo Antenna Info User Info Common Info

Name	Value
PER	0.0 %
RXOK	0
RXOK/Sec	0
MAC Mdrdy	0
FCS err	0
CCK PD Count	0
CCK SIG Error	0
OFDM PD Count	0
OFDM TAQ Error	0
CCK SFD Error	0
OFDM SIG Error	0
CCK FCS Error	0
OFDM FCS Error	0
CCK MDRDY	0
OFDM MDRDY	0
Length Mismatch	0
FCS OK Cnt	0
Aci Hit Low	0
Aci Hit High	0
AllLengthMismatchCount	0

h. Name Value

Name	Value
FAGC RSSI WB 0	-72
FAGC RSSI ADC 0	-94
FAGC RSSI IB 0	-96
RCPI 0	0
RSSI 0	-110
Inst RSSI WB 0	-72
Inst RSSI IB 0	-98
FAGC RSSI WB 1	-72
FAGC RSSI ADC 1	-92
FAGC RSSI IB 1	-93
RCPI 1	0
RSSI 1	-110
Inst RSSI WB 1	-72
Inst RSSI IB 1	-100

RU Settings Block

Sta ID 888 RU Arrange PFD Info Get

Enable RXV Enable RDD Enable Recal

Start RDD RDD Dump Recal Dump

IQ Verification

RX IQ testcase file

Start RX IRR Calc save pattern

Reset counter

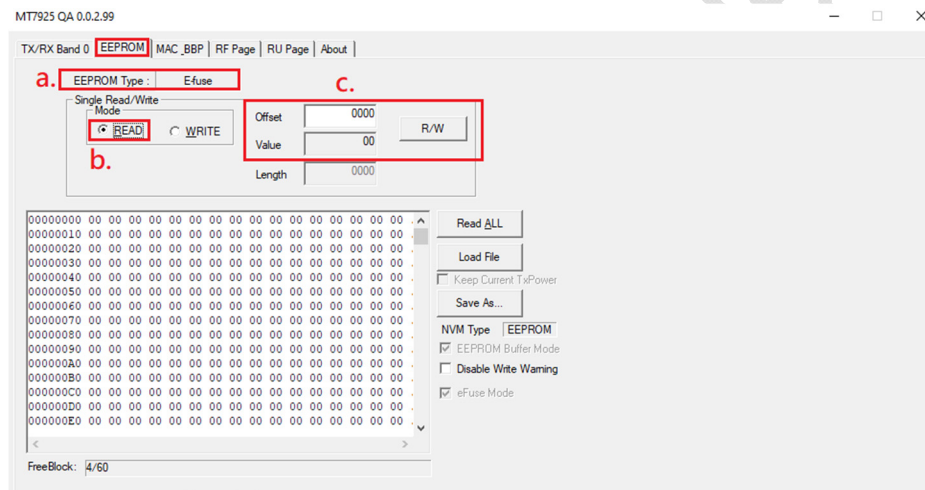
2.4 Read, Write E-fuse Table

2.4.1 Read a Value from E-fuse

Users can use QA-Tool to read a value from an address offset of E-fuse.

On EEPROM page:

- In E-fuse Mode, EEPROM Type is "E-fuse".
- Select Single Read/Write is "READ".
- Set address offset in "Offset" text box then click on "R/W" button. The value of assigned address offset would be shown in the "Value" text box.



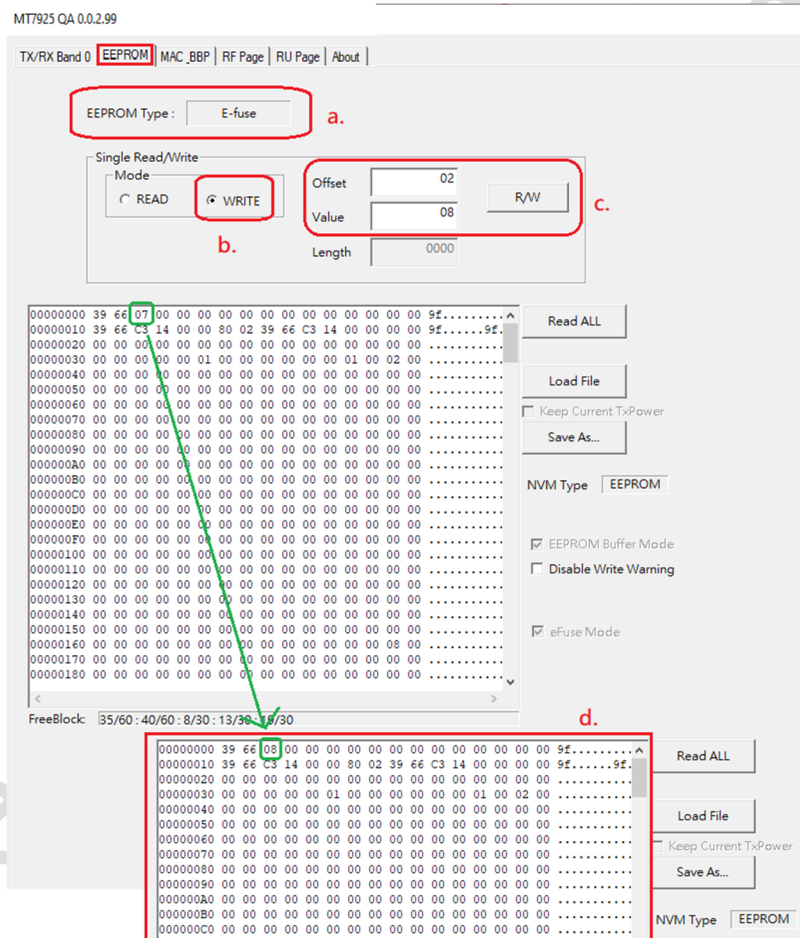
This is an example to read address offset_0x00 and get value 0x00 from E-fuse

2.4.2 Write a Value to E-fuse

Users can use QA-Tool to write a value to an address offset of E-fuse.

On EEPROM page:

- In E-fuse Mode, EEPROM Type is "E-fuse".
- Select Single Read/Write mode is "WRITE".
- Set address offset and new value in "Offset" and "Value" text boxes then click on "R/W" button.
- Click "Read ALL" button to update e-fuse value in e-fuse table and check it.



This is an example writing 0x01 to address offset_0x55 of E-fuse and check value is correctly updated.

2.5 Homologation suggest setting

1. Normal Test item, we suggest Packet lengths use 512 Byte

The screenshot shows the 'Tx' tab of the MT7925B22M SW Tool AN: Part-I interface. The 'TX frame setting' section is visible, with the following fields and values:

- FC (2):** 0800
- Dur (2):** 0000
- Address1(6)Dest:** FFFFFFFF
- Address2(6)Source:** 000000000000
- Address3(6)BSSID:** 001122334455
- Seq (2):** 0000
- MPDU Tx Length:** 512 (highlighted with a red box)
- Packet Tx Time:** (unchecked)
- Repeat Pattern(3):** AA
- Random(1):** (unchecked)

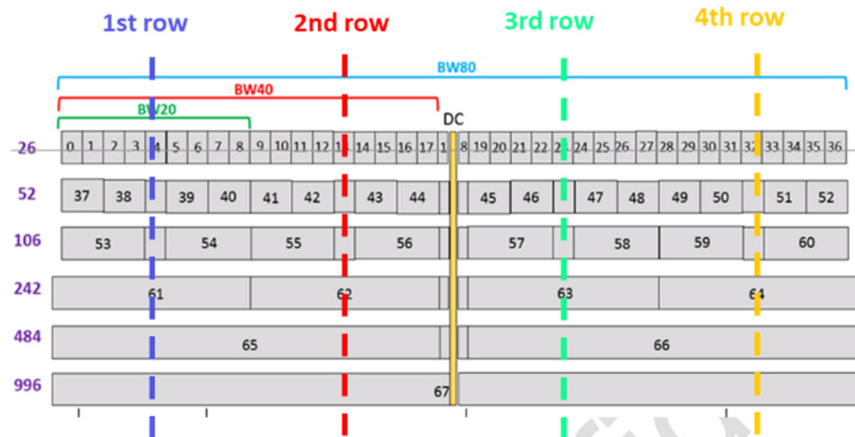
2. SAR test item, we suggest use HWTX, and adjust packet lengths that duty meet test conditions (duty 85%)

The screenshot shows the 'Tx' tab of the MT7925B22M SW Tool AN: Part-I interface. The 'TX frame setting' section is visible, with the following fields and values:

- FC (2):** 0800
- Dur (2):** 0000
- Address1(6)Dest:** FFFFFFFF
- Address2(6)Source:** 000000000000
- Address3(6)BSSID:** 001122334455
- Seq (2):** 0000
- HWTX:** (checked, highlighted with a red box)
- MPDU Tx Length:** 512 (highlighted with a red box)
- Packet Tx Time:** (unchecked)
- Repeat Pattern(3):** AA
- Random(1):** (unchecked)

2.6 RU Setting example

RU index setting under QA Tool



Ex: RU Index 61 Can find it at RU242 1st ROW

RU

Select Band: 1

1st row

Category:	Allocation (binary):	Sta ID:	RU Index:	MCS:	PwrBoost Factor	MU Nss	LDPC	Nss	Stream Idx	Length
11: RU242*1	001000000		61	MCS7=7;	0	1	☐	2	1	1024
11: RU242*1	001000000		62	MCS7=7;	0	1	☐	2	1	1024
11: RU242*1	001000000		63	MCS7=7;	0	1	☐	2	1	1024
11: RU242*1	001000000		64	MCS7=7;	0	1	☐	2	1	1024
0: Disable					0	1	☐	2	1	512

Segment 0: Segment 1:

3 General Information & Integration Instructions

3.1 General Description of MT7925B22M

Product	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand	MediaTek
Model	MT7925B22M
Sku 1	DVDDIO 3.3V, power from platform.
Sku 2	DVDDIO 1.8V, power from IC PMU. (Power Management Unit).
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	BT EDR: FHSS BT LE: DTS WLAN: DSSS, OFDM, OFDMA
Transfer Rate	BT EDR: up to 3 Mbps BT LE: 125kbps / 500kbps / 1Mbps / 2 Mbps 2.4GHz: 802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 300 Mbps VHT: up to 400 Mbps 802.11ax: up to 573.5 Mbps 802.11be: up to 688.2 Mbps 5GHz: 802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9Mbps 802.11be: up to 1441.2 Mbps 6GHz 802.11a: up to 54 Mbps 802.11ax: up to 2401.9 Mbps 802.11be: up to 2882.4 Mbps
Operating Frequency	BT EDR: 2402MHz ~ 2480MHz BT LE: 2402MHz ~ 2480MHz 2.4GHz: 2.412 ~ 2.472GHz 5GHz: 5.18~5.25GHz, 5.26~5.32GHz, 5.5 GHz ~5.72 GHz, 5.745 ~ 5.825GHz, 5.815GHz ~5.885GHz 6GHz: 5.955~6.415GHz, 6.435~6.525GHz, 6.535~6.865GHz, 6.875~7.115GHz
Number of Channel	BT EDR: 79 BT LE: 40 2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20), 802.11be (EHT20): 13 802.11n (HT40), VHT40, 802.11ax (HE40), 802.11be (EHT40): 9 5GHz: 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(he20):25 802.11n(HT40), 802.11ac(VHT40), 802.11ax(HE40):12

	802.11ac(VHT80), 802.11ax(HE80):6 802.11ac(VHT160), 802.11ax(HE160):2 802.11be(EHT20):9 802.11be(EHT40):4 802.11be(EHT80):2 5.9GHz: 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(he20), 801.11be(EHT20):3 802.11n(HT40), 802.11ac(VHT40), 802.11ax(HE40), 802.11be(EHT40):2 802.11ac(VHT80), 802.11ax(HE80), 802.11be(EHT80):1 802.11ac(VHT160), 802.11ax(HE160), 802.11be(EHT160):1 6GHz: 802.11a/ax(HE20), 802.11be(EHT20): 59 80211ax(HE40), 802.11be(EHT40): 29 80211ax(HE80), 802.11be(EHT80): 14 80211ax(HE160), 802.11be(EHT160): 7
Output power	BT EDR: 12.95 dBm BT LE: 12.94 dBm 2.4GHz: 1TX: 24.21 dBm 2TX: 26.03 dBm 5GHz: 5.18~5.24GHz: 23.79 dBm 5.26~5.32GHz: 23.48 dBm 5.5 GHz ~5.72 GHz: 23.21dBm 5.745 ~ 5.825GHz: 27.91dBm 5.9GHz: 29.93 dBm 6GHz: (under control of a low-power indoor AP) 5.955~6.415GHz: 20.15dBm 6.435~6.525GHz: 20.16 dBm 6.535~6.865GHz: 20.06 dBm 6.875~7.115GHz: 20.11 dBm (under control of a standard power AP) 5.955~6.415GHz: 29.99 dBm 6.535~6.855GHz: 29.96 dBm

3.2 Antenna information

The antennas mentioned below are covered in the certification scope and the HOST can only be used with the following antennas:

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
3	Chain0	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG
	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG
4	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	RP SMA
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	RP SMA
5	Chain0	PSA	RFPCA460632IMMB701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX
	Chain1	PSA	RFPCA460632IMMB701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX
6	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex

Only the above antennas are tested for compliance with the FCC rules, and all other antennas (even same type with lower gain) will require a re-assessment to be used with this module.

3.3 Host Integration instructions

The product is designed to be used with “NGFF (Next Generation Form Factor) M.2 2230” PCIE Bus, please install module into a M.2 2230 PCIE slot.

3.4 Host product testing guidance

HOST must follow the specific restrictions listed in “3.5 Regulatory notes” section below and section 3 of KDB996369 D04 V02 Module Integration Guide v01, to verify that the host product meets all the applicable rules.

FCC regulation requirements / installation restrictions

Dual Client 6CD

1. This device not 6PP category and the maximum power does not exceed authorized values.
2. This device will only associate and connect with a low-power indoor Access Point, subordinate device, or standard access point and never directly link to any other client devices.
3. This device will always initiate transmission under the control of a low-power indoor AP or subordinate or standard client except access point for brief communications before joining a network. These quick messages will only occur if the client has detected an indoor AP, subordinate, or standard access point operating on a channel. These brief messages will have a time-out mechanism such that if it does not receive a response from an AP it will not continually repeat the request.
4. This device, when associated and connected with a low-power indoor access point, subordinate or standard access point device, will operate at a power lower as advertised by the indoor access point, subordinate, or standard access point:
 - i. lower than or equal to the power advertised by the low-power indoor access point or subordinate and never above the maximum output power allowed by the FCC grant for clients associated with indoor clients or subordinates.
 - ii. lower than or 6 dB below the power advertised by the standard access point.
1. Contention-based protocol as demonstrated in the test report is permanently embedded in the module and is not host-dependent based protocol demonstrated in the test report.

Installation restrictions

1. Prohibited for control of or communications with unmanned aircraft systems, including drones.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Radiation Exposure Statement:

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual.

The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

This module is intended for OEM integrators only. Per FCC KDB 996369 D03 OEM Manual v01 guidance, the following conditions must be strictly followed when using this certified module:

KDB 996369 D03 OEM Manual v01 rule sections:

2.2 List of applicable FCC rules

This module has been tested for compliance to FCC Part 15 Subpart C (15.247) and Subpart E (15.407).

2.3 Summarize the specific operational use conditions

The module is tested for standalone mobile RF exposure use condition. Any other usage conditions such as co-location with other transmitter(s) will need a separate reassessment through a class II permissive change application or new certification.

2.4 Limited module procedures

Not applicable.

2.5 Trace antenna designs

Not applicable.

2.6 RF exposure considerations

This equipment complies with FCC mobile radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. A separate SAR/Power Density evaluation is required to confirm compliance with relevant FCC portable RF exposure rules.

This device was tested for typical body operations. To comply with RF exposure requirements, a minimum separation distance of 5 mm must be maintained between the user's body a including the antenna.

accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided.

2.7 Antennas

The following antennas have been certified with this module.

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
3	Chain0	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG
	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG
4	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	RP SMA
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	RP SMA
5	Chain0	PSA	RFPCA460632IMMB701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX
	Chain1	PSA	RFPCA460632IMMB701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX
6	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex

Note1: Use of other antenna types or the same type of antenna with higher gain than listed above must performed additional testing and appropriate permissive change approval.

Note2: In the 5.925-7.125GHz band, use of other similar type antennas and the antenna gain not higher/lower than listed above may only require a C1PC without any additional testing/submission.

Note3: Contact MTK for additional guidance, if choose to use different antenna types or higher/lower gain antennas in the end system.

IMPORTANT: The final host product must have an integral antenna which is not removable by the end-user.

2.8 Label and compliance information

The final end product must be labeled in a visible area with the following: "Contains FCC ID: RAS-MT7925B22M". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

2.9 Information on test modes and additional testing requirements

This transmitter is tested in a standalone mobile RF exposure condition and any co-located or simultaneous transmission with other transmitter(s) class II permissive change re-evaluation or new certification.

2.10 Additional testing, Part 15 Subpart B disclaimer

This transmitter module is tested as a subsystem and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The final host will still need to be reassessed for compliance to this portion of rule requirements if applicable.

As long as all conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

OEM/Host manufacturer responsibilities

OEM/Host manufacturers are ultimately responsible for the compliance of the Host and Module. The final product must be reassessed against all the essential requirements of the FCC rule such as FCC Part 15 Subpart B before it can be placed on the US market. This includes reassessing the transmitter module for compliance with the Radio and EMF essential requirements of the FCC rules. This module must not be incorporated into any other device or system without retesting for compliance as multi-radio and combined equipment.

Modules: extended to host manufacturers by integration instructions.

Industry Canada statement:

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20 cm entre le radiateur et votre corps.

This device is intended only for OEM integrators under the following conditions: (For module device use)

- 1) The antenna must be installed and operated with greater than 20cm between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as **2** conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

Cet appareil est conçu uniquement pour les intégrateurs OEM dans les conditions suivantes: (Pour utilisation de dispositif module)

- 1) L'antenne doit être installée et exploitée avec plus de 20 cm entre l'antenne et les utilisateurs, et
- 2) Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

Tant que les **2** conditions ci-dessus sont remplies, des essais supplémentaires sur l'émetteur ne seront pas nécessaires. Toutefois, l'intégrateur OEM est toujours responsable des essais sur son produit final pour toutes exigences de conformité supplémentaires requises pour ce module installé.

IMPORTANT NOTE:

In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate Canada authorization.

IMPORTANTENOTE

Dans le cas où ces conditions ne peuvent être satisfaites (par exemple pour certaines configurations d'ordinateur portable ou de certaines co-localisation avec un autre émetteur), l'autorisation du Canada n'est plus considéré comme valide et l'ID IC ne peut pas être utilisé sur le produit final. Dans ces circonstances, l'intégrateur OEM sera chargé de réévaluer le produit final (y compris l'émetteur) et l'obtention d'une autorisation distincte au Canada.

End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed and operated with greater than 20cm between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains IC:7542A-MT7925B22M".

Plaque signalétique du produit final

Ce module émetteur est autorisé uniquement pour une utilisation dans un appareil où l'antenne peut être installée et utilisée à plus de 20 cm entre l'antenne et les utilisateurs. Le produit final doit être étiqueté dans un endroit visible avec l'inscription suivante: "Contient des IC: 7542A-MT7925B22M"

Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

Manuel d'information à l'utilisateur final

L'intégrateur OEM doit être conscient de ne pas fournir des informations à l'utilisateur final quant à la façon d'installer ou de supprimer ce module RF dans le manuel de l'utilisateur du produit final qui intègre ce module.

Le manuel de l'utilisateur final doit inclure toutes les informations réglementaires requises et avertissements comme indiqué dans ce manuel.

Caution :

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
- (iii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate;
- (iv) where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

Avertissement:

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5 250 à 5 350 MHz et de 5 470 à 5 725 MHz doit être conforme à la limite de la p.i.r.e.;
- (iii) pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée, selon le cas;
- (iv) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués

DETACHABLE ANTENNA USAGE

This radio transmitter (IC: 7542A- MT7925B22M / Model: MT7925B22M) has been approved by ISED to operate with the antenna type listed below with maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 7542A-MT7925B22M / Model: MT7925B22M) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Approved antenna(s) list

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)
3	Chain0	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG
	Chain1	VSO	JR2Q00340-1	1.62 3.2 3.93 3.61 3.61 3.14	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	RP SMA PLUG
4	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	RP SMA
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	RP SMA
5	Chain0	PSA	RFPCA460632IMMB701	-13.2 -13.67 -13.67 -13.09	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	Dipole	IPEX
	Chain1	PSA	RFPCA460632IMMB701	-13.2	5.925~6.425	Dipole	IPEX

				-13.67 -13.67 -13.09	6.425~6.525 6.525~6.875 6.875~7.125		
6	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex

IMPORTANT: The final host product must have an integral antenna which is not removable by the end-user.

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

本模組於取得認證後將依規定於模組本體標示審驗合格標籤。

系統廠商應於平台上標示「本產品內含射頻模組：XXXyyyLPDzzzz-x」字樣

應避免影響附近雷達系統之操作。

高增益指向性天線只得應用於固定式點對點系統。