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Declaration Letter

To whom it may concerns:

Tonly Technology Co., Ltd. hereby make an explanation that how to blocked BLE CH 1&CH 39.

According to the Bluetooth Specification 《Core_v5.3》，2402/2426/2480MHz is named as primary advertising channel，Primary advertising channel 2402/2426/2480MHz are not available in BLE 2M mode.

⇨ So we claim that the first transmit channel should be **2404MHz** @BLE 2M mode，rather than 2402MHz.

⇨ while the last transmit channel should be **2478MHz** @BLE 2M mode，rather than 2480MHz.

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1.4.1 Physical channel indices

Table 1.3 shows the mapping from RF Channel to Physical Channel Index and RF Channel group. An '•' in Table 1.3 indicates the RF channel and index are part of the specified channel group.

RF Channel (Center Frequency)	Physical Channel Index	RF Channel Group	
		Primary Advertising	General purpose
2402 MHz	37	•	
2404 MHz	0		•
2406 MHz	1		•
...	...	...	...
2424 MHz	10		•
2426 MHz	38	•	
2428 MHz	11		•
2430 MHz	12		•
...	...	...	...
2478 MHz	38		•
2480 MHz	39	•	

Table 1.3: Mapping of RF channel to physical channel index and RF channel group

The PDU Type field of the advertising physical channel PDU that is contained in the header indicates the PDU type as defined in Table 2.3, which also shows which channel and which PHYs the packet may appear on.

PDU Type	PDU Name	Physical Channel	LE 1M	LE 2M	LE Coded
0b0000	ADV_IND	Primary Advertising	•		
0b0001	ADV_DIRECT_IND	Primary Advertising	•		
0b0010	ADV_NONCONN_IND	Primary Advertising	•		
0b0011	SCAN_REQ	Primary Advertising	•		
	AUX_SCAN_REQ	Secondary Advertising	•	•	•
0b0100	SCAN_RSP	Primary Advertising	•		
0b0101	CONNECT_IND	Primary Advertising	•		
	AUX_CONNECT_REQ	Secondary Advertising	•	•	•
0b0110	ADV_SCAN_IND	Primary Advertising	•		

Table 2.3: Advertising physical channel PDU header's PDU Type field encoding

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PDU Type	PDU Name	Physical Channel	LE 1M	LE 2M	LE Coded
0b0111	ADV_EXT_IND	Primary Advertising	•		•
	AUX_ADV_IND	Secondary Advertising	•	•	•
	AUX_SCAN_RSP	Secondary Advertising	•	•	•
	AUX_SYNC_IND	Periodic	•	•	•
	AUX_CHAIN_IND	Secondary Advertising and Periodic	•	•	•
0b1000	AUX_CONNECT_RSP	Secondary Advertising	•	•	•
All other values	Reserved for future use				

Table 2.3: Advertising physical channel PDU header's PDU Type field encoding

Best regards

Peter Cheng

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