

Data File : VN055645.D
Acq On : 18 May 2019 6:07
Operator : JC/SP
Sample : K2903-09
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 53 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-17B_R2

Quant Time: May 20 02:17:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	403809	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	567849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	476912	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	190764	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	186177	42.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.12%	
35) Dibromofluoromethane	7.59	113	173337	48.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.10%	
50) Toluene-d8	10.09	98	650216	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
62) 4-Bromofluorobenzene	12.40	95	208728	44.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.64%	

Target Compounds

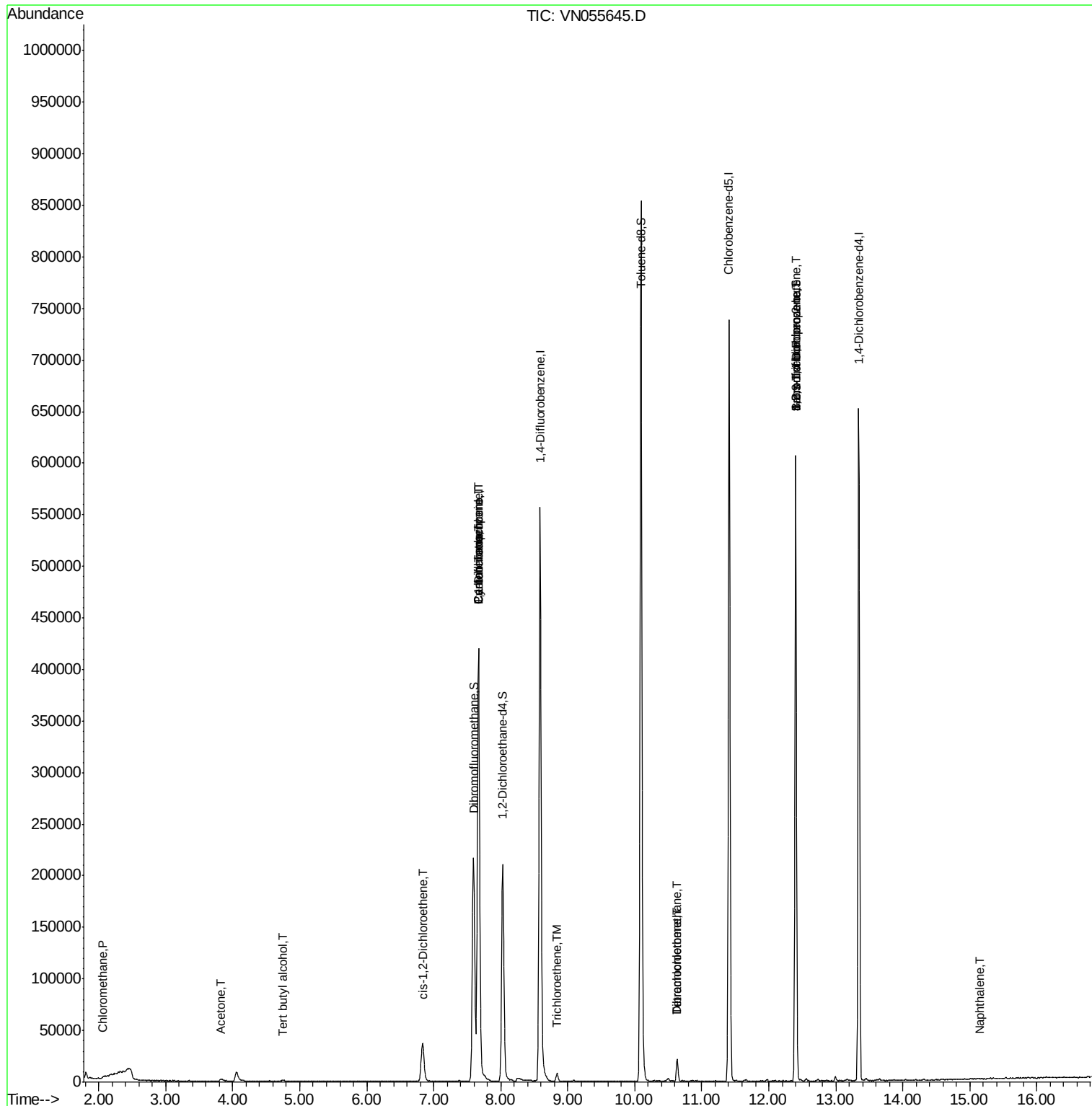
						Qvalue
3) Chloromethane	2.06	50	902	0.218	ug/l	99
11) Tert butyl alcohol	4.74	59	466	0.565	ug/l #	74
16) Acetone	3.82	43	4478	2.479	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	26601	5.815	ug/l	88
31) Cyclohexane	7.66	56	6177	0.941	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23859	4.713	ug/l #	48
38) Carbon Tetrachloride	7.67	117	33107	6.120	ug/l #	15
44) Trichloroethene	8.84	130	3518	0.837	ug/l	95
60) Dibromochloromethane	10.63	129	4886	1.121	ug/l #	11
64) Tetrachloroethene	10.63	164	5683	1.511	ug/l	97
71) Bromoform	12.40	173	1345	0.409	ug/l #	1
73) Isopropylbenzene	12.25	105	278	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.56	83	134	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	96376	24.759	ug/l #	100
79) 2-Chlorotoluene	12.68	91	185	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	302	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	96376	63.645	ug/l #	17
83) tert-Butylbenzene	12.99	119	2422	Below Cal		95
84) 1,2,4-Trimethylbenzene	13.05	105	283	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	1000	Below Cal		98
86) p-Isopropyltoluene	13.29	119	458	Below Cal	#	51
95) Naphthalene	15.13	128	439	1.807	ug/l #	69

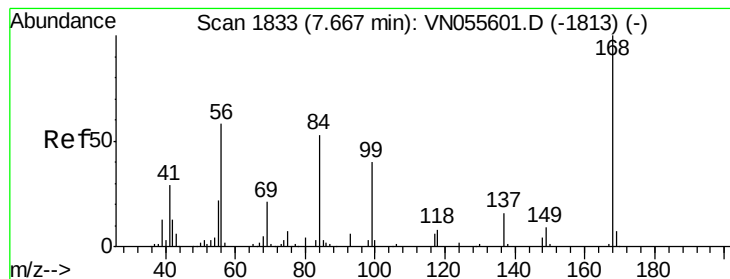
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampleId :

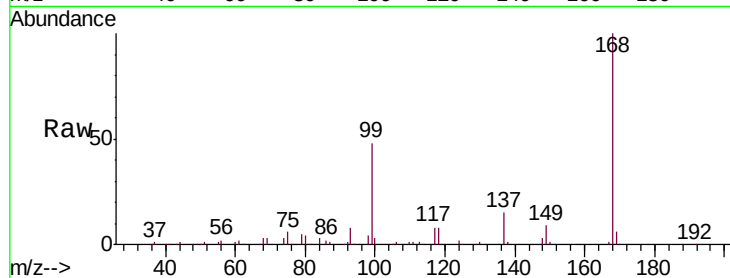
MW-17B_R2

Tgt Ion:168 Resp: 403809

Ion Ratio Lower Upper

168 100

99 47.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

150000

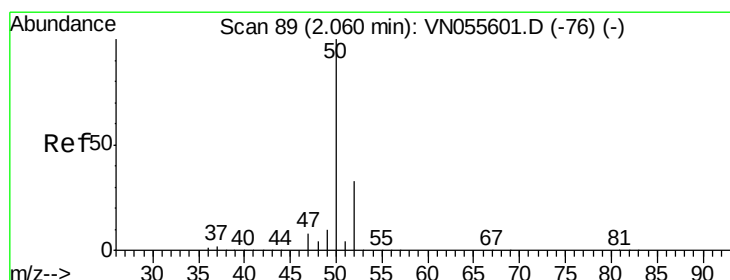
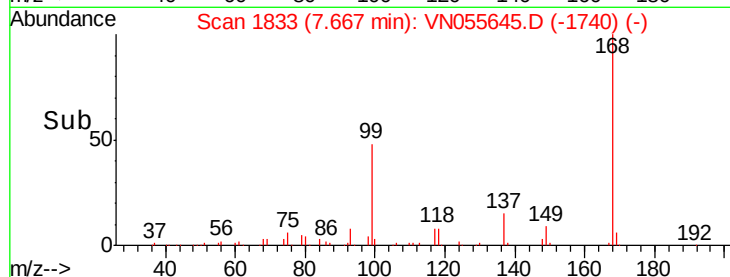
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#3

Chloromethane

Concen: 0.218 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055645.D

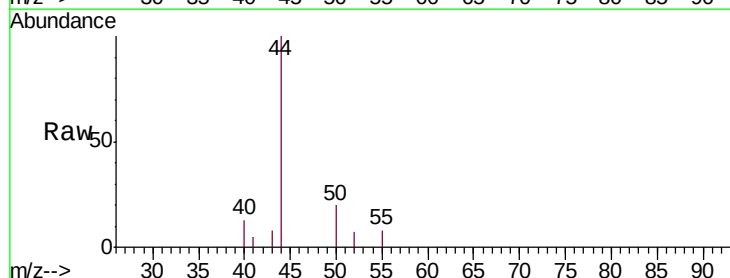
Acq: 18 May 2019 6:07

Tgt Ion: 50 Resp: 902

Ion Ratio Lower Upper

50 100

52 33.0 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

600

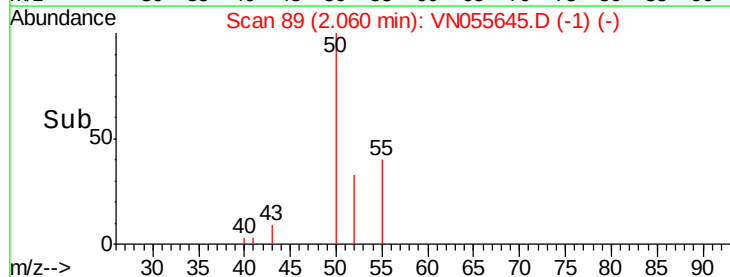
400

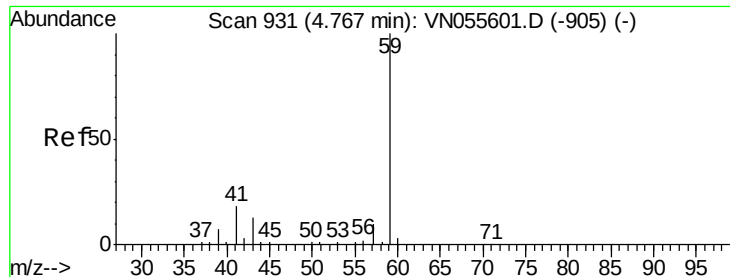
200

0

2.02 2.04 2.06 2.08

Time-->

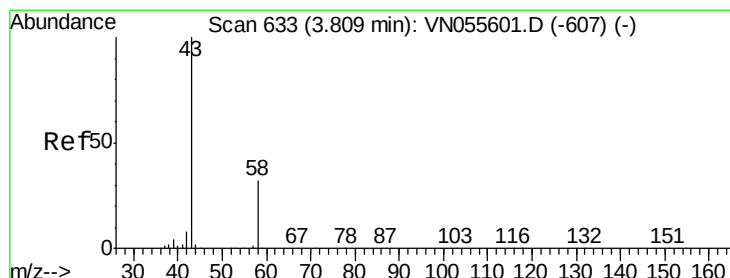
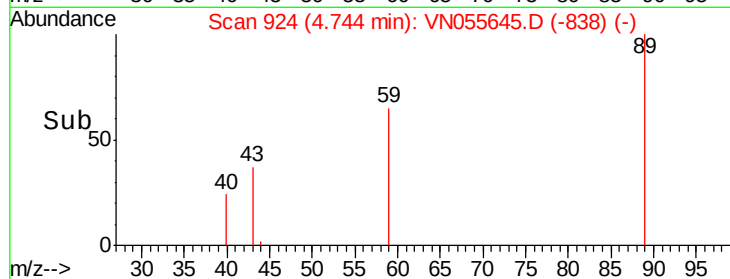
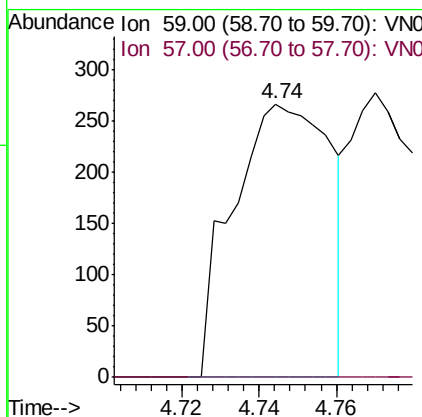
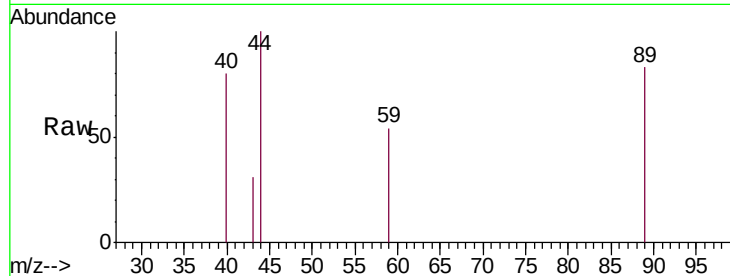




#11
Tert butyl alcohol
Concen: 0.565 ug/l
RT: 4.74 min Scan# 924
Delta R.T. -0.02 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

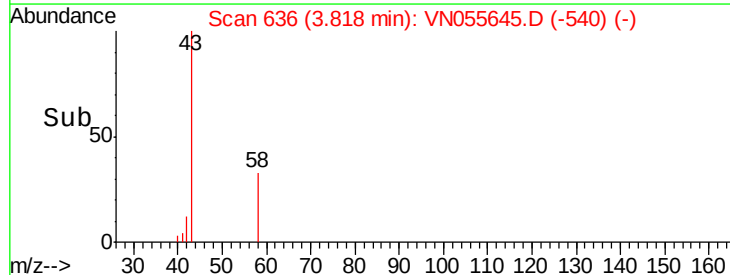
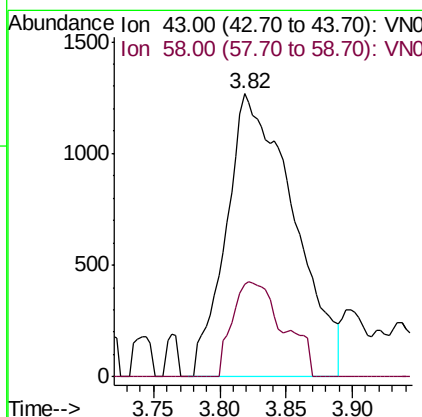
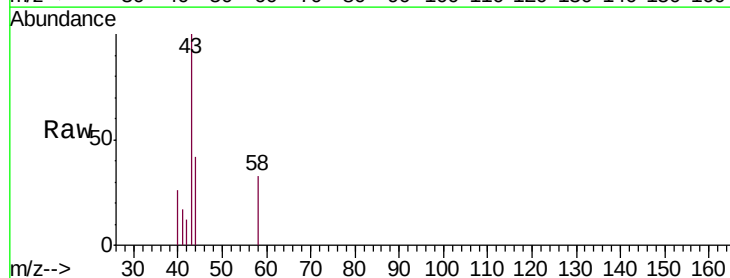
Instrument :
MSVOA_N
ClientSampled :
MW-17B_R2

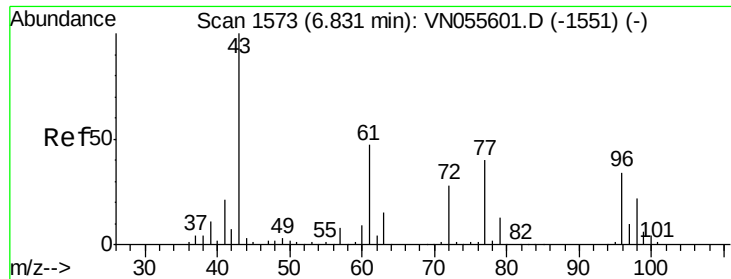
Tgt Ion: 59 Resp: 466
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#16
Acetone
Concen: 2.479 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.01 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

Tgt Ion: 43 Resp: 4478
Ion Ratio Lower Upper
43 100
58 32.8 26.0 39.0





#27

cis-1,2-Dichloroethene

Concen: 5.815 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampled :

MW-17B_R2

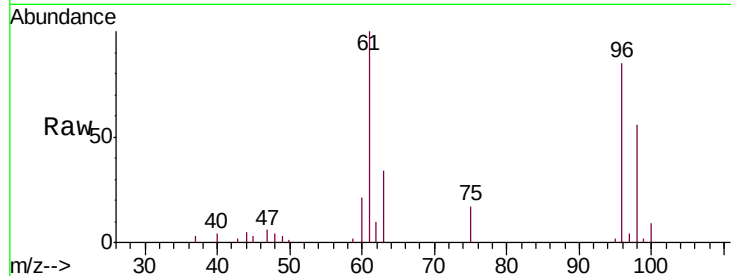
Tgt Ion: 96 Resp: 26601

Ion Ratio Lower Upper

96 100

61 118.6 0.0 279.0

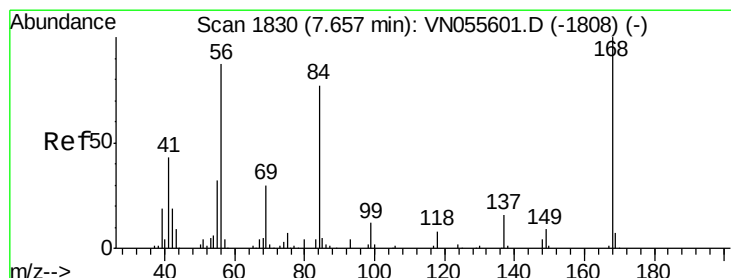
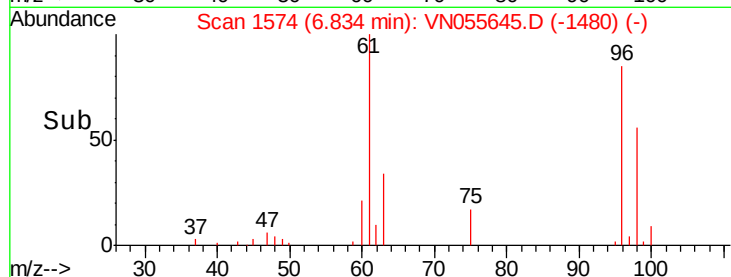
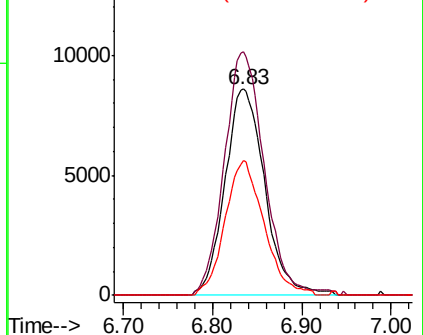
98 63.8 0.0 131.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.941 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

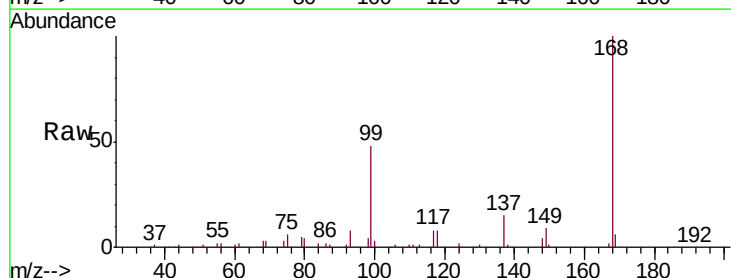
Tgt Ion: 56 Resp: 6177

Ion Ratio Lower Upper

56 100

69 199.6 27.2 40.8#

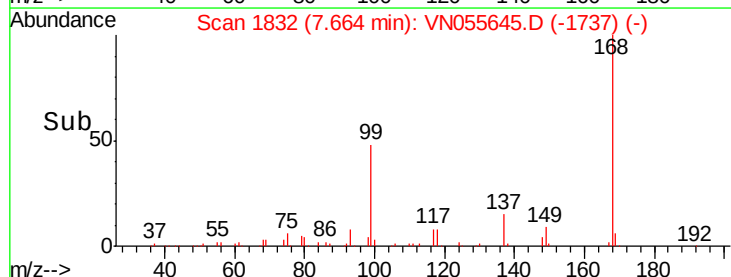
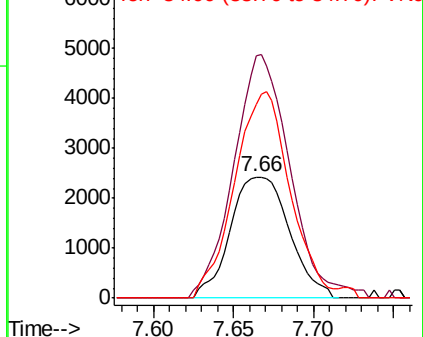
84 159.9 71.3 106.9#

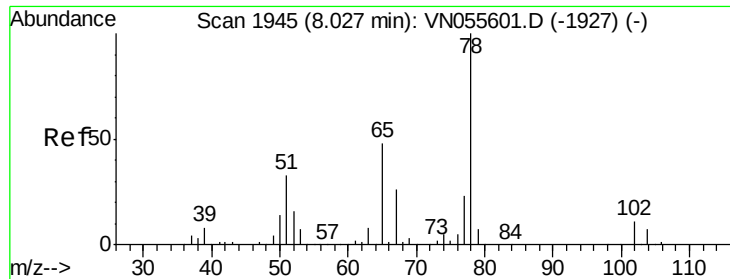


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

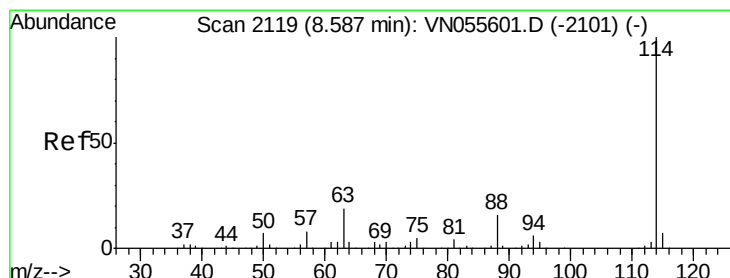
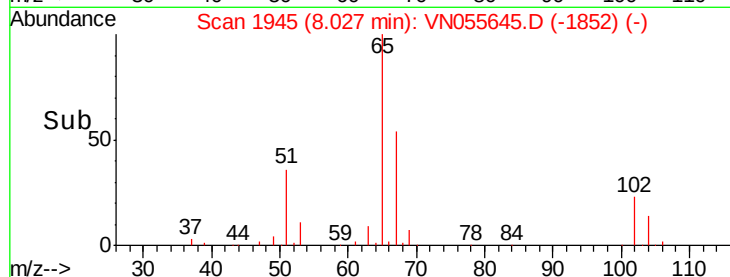
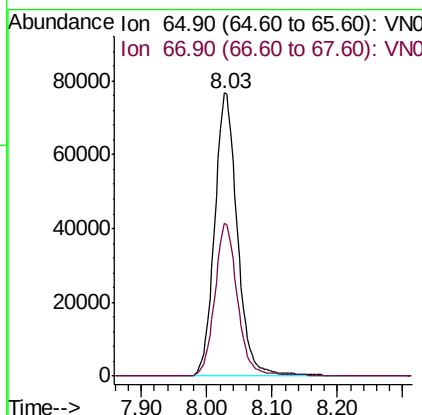
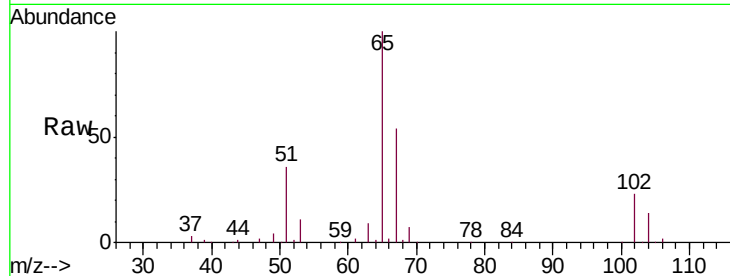




#33
 1,2-Dichloroethane-d4
 Concen: 42.059 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055645.D
 Acq: 18 May 2019 6:07

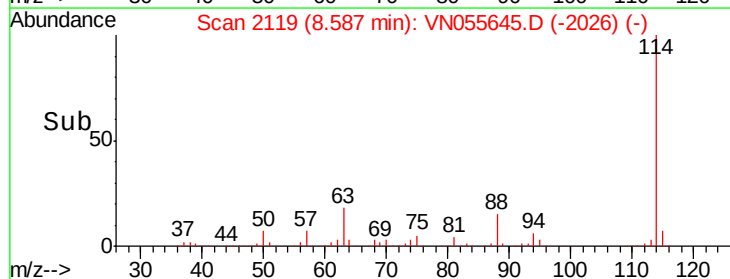
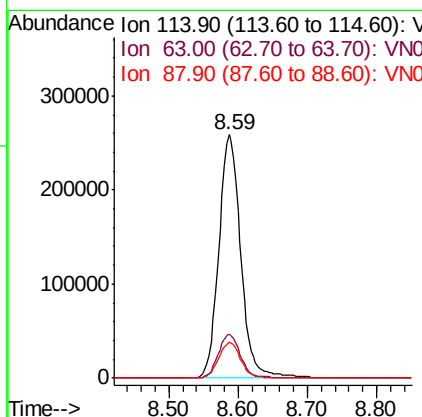
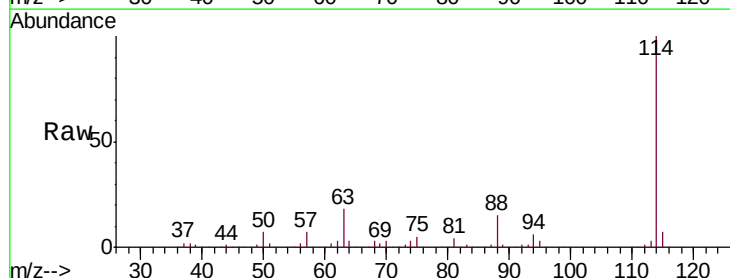
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17B_R2

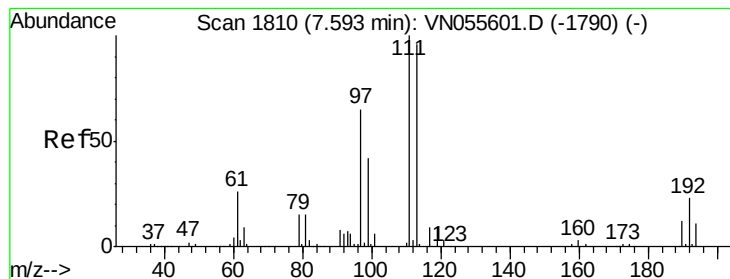
Tgt Ion: 65 Resp: 186177
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055645.D
 Acq: 18 May 2019 6:07

Tgt Ion: 114 Resp: 567849
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 38.2
 88 14.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.053 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampleId :

MW-17B_R2

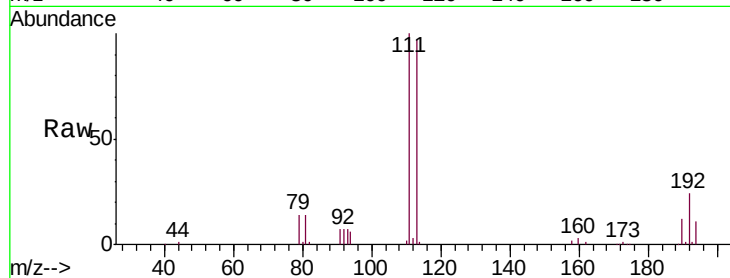
Tgt Ion: 113 Resp: 173337

Ion Ratio Lower Upper

113 100

111 102.3 82.5 123.7

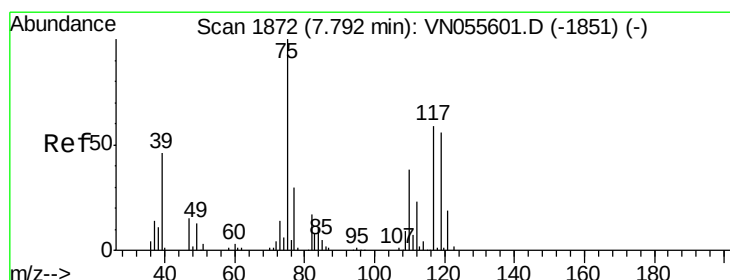
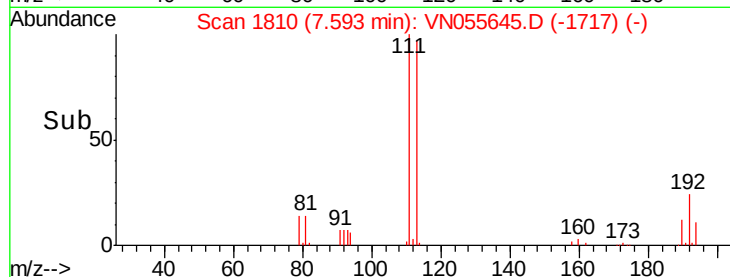
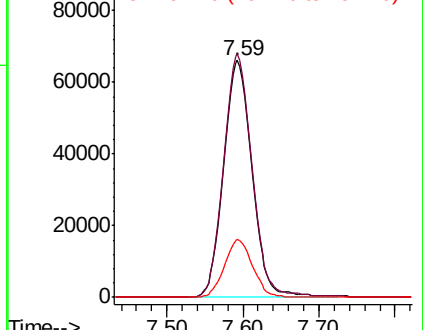
192 24.0 18.7 28.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.713 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

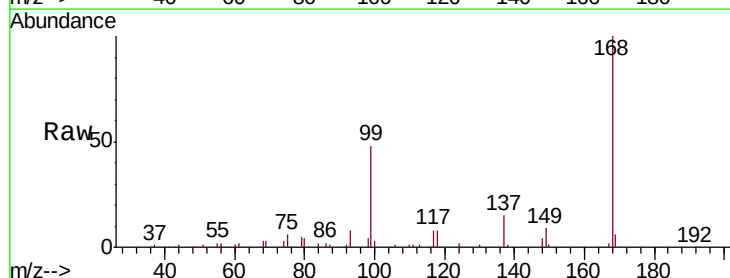
Tgt Ion: 75 Resp: 23859

Ion Ratio Lower Upper

75 100

110 8.8 18.6 55.6#

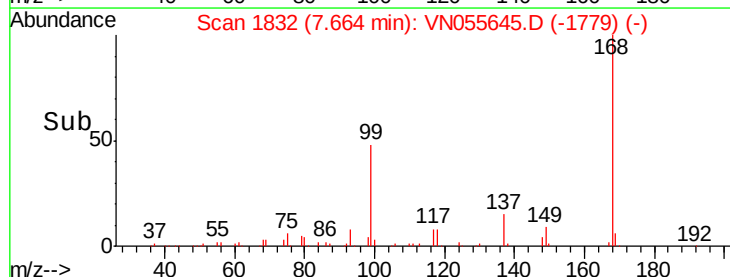
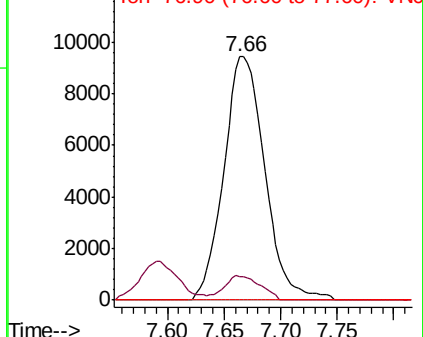
77 0.0 24.9 37.3#

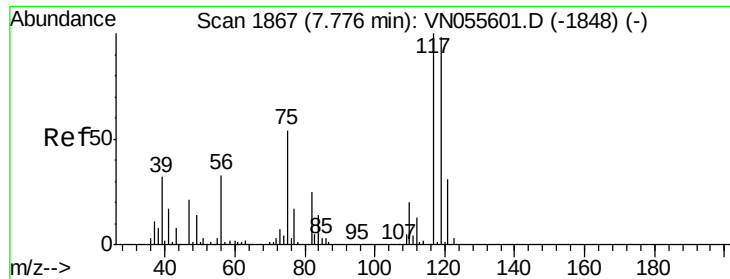


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

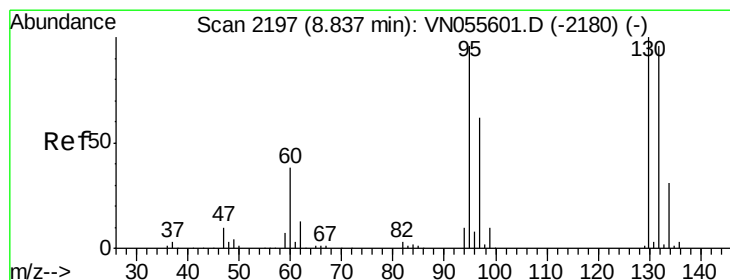
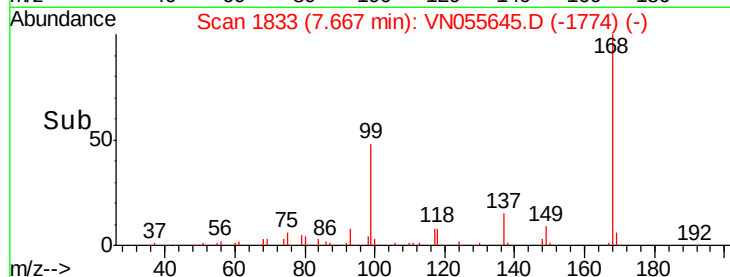
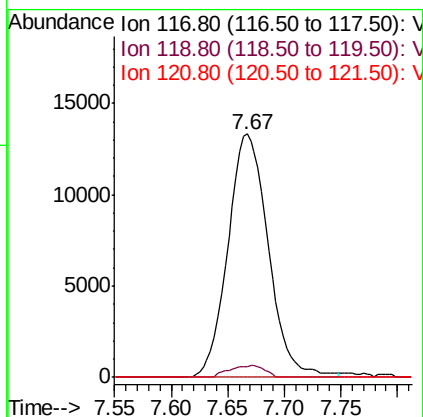
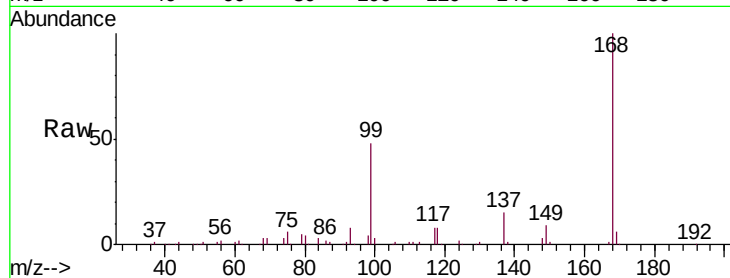




#38
Carbon Tetrachloride
Concen: 6.120 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

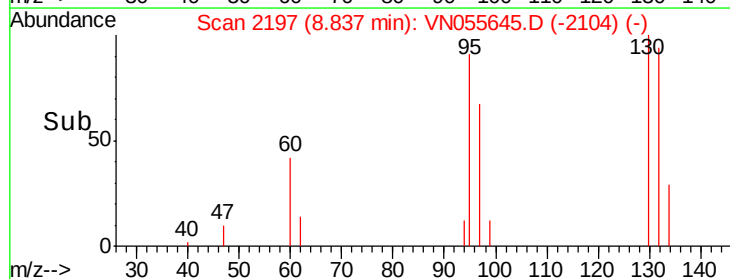
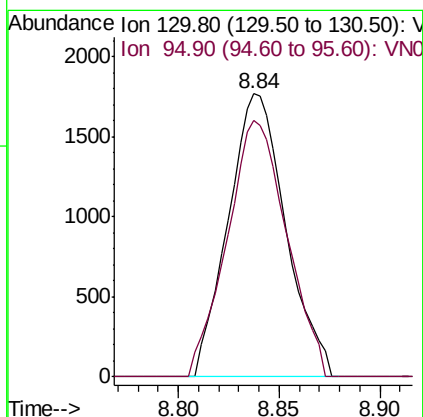
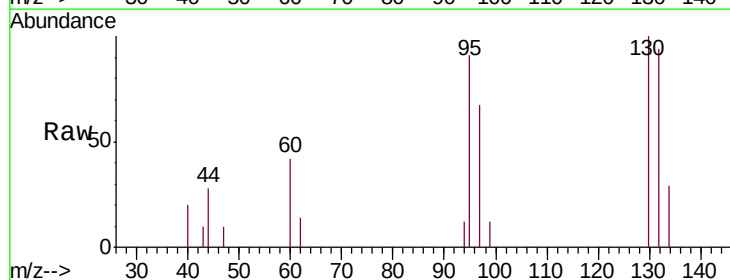
Instrument :
MSVOA_N
ClientSampled :
MW-17B_R2

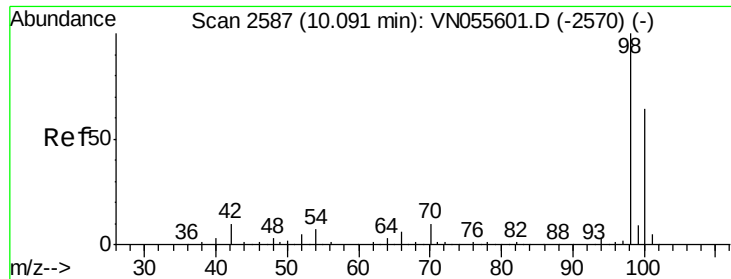
Tgt Ion:117 Resp: 33107
Ion Ratio Lower Upper
117 100
119 4.6 77.8 116.8#
121 0.0 24.6 37.0#



#44
Trichloroethene
Concen: 0.837 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

Tgt Ion:130 Resp: 3518
Ion Ratio Lower Upper
130 100
95 90.8 0.0 191.0





#50

Toluene-d8

Concen: 47.672 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampleId :

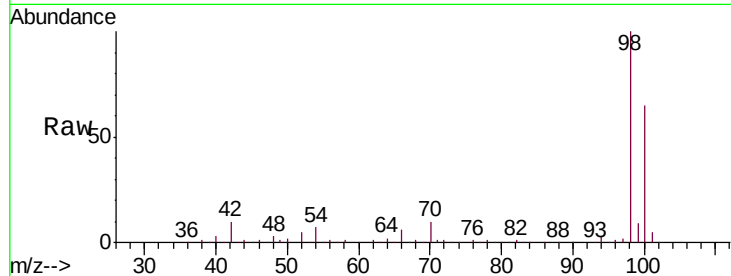
MW-17B_R2

Tgt Ion: 98 Resp: 650216

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055601.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055601.D (-2570) (-)

10.09

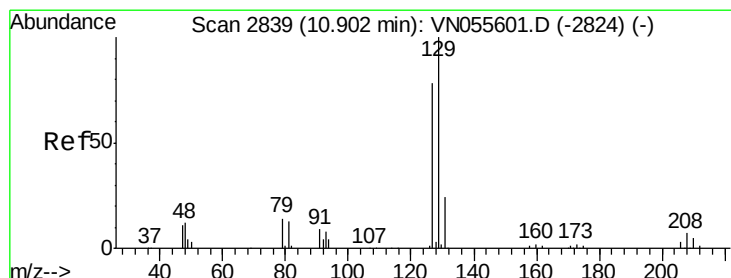
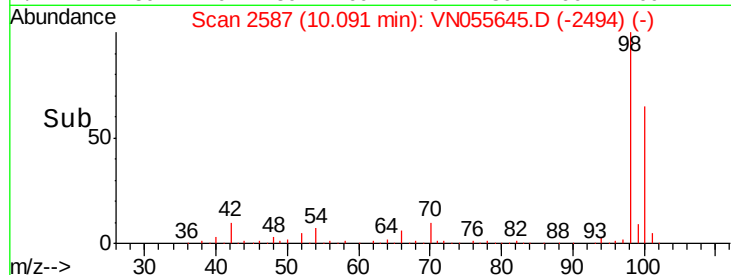
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 1.121 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN055645.D

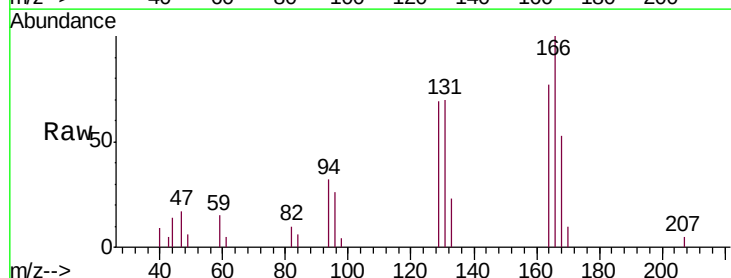
Acq: 18 May 2019 6:07

Tgt Ion: 129 Resp: 4886

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VN055601.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN055601.D (-2824) (-)

10.63

3000

2500

2000

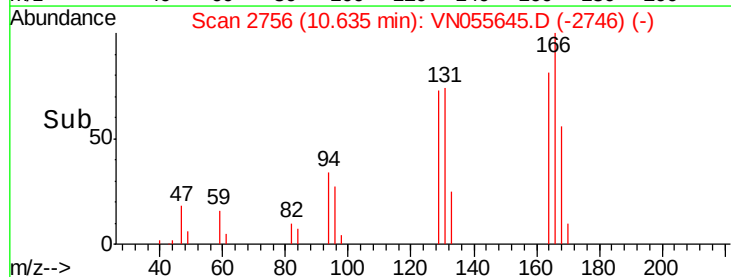
1500

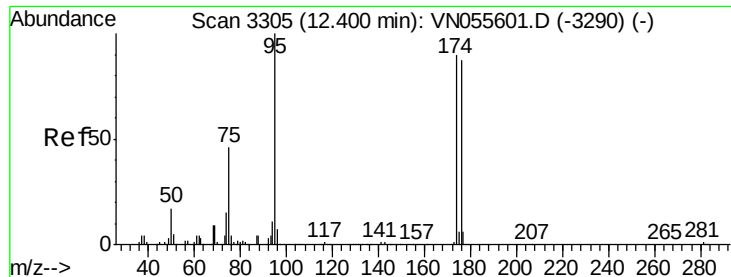
1000

500

0

Time-->

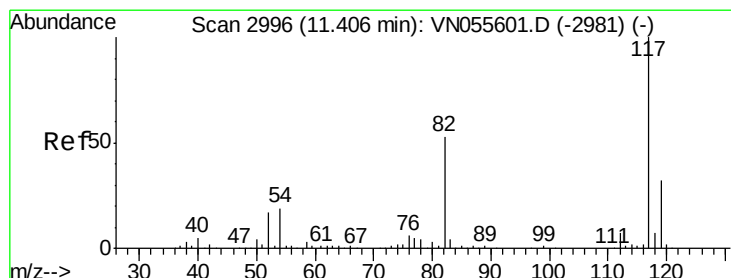
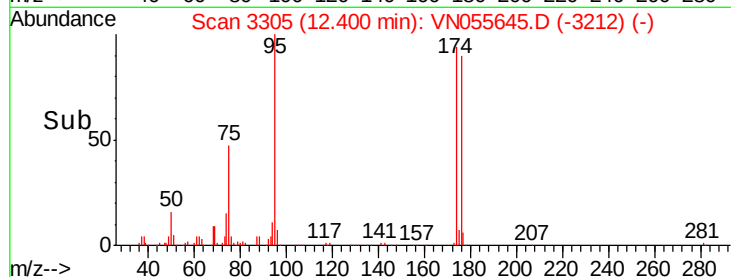
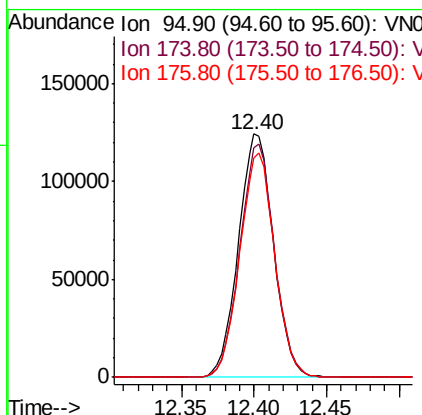
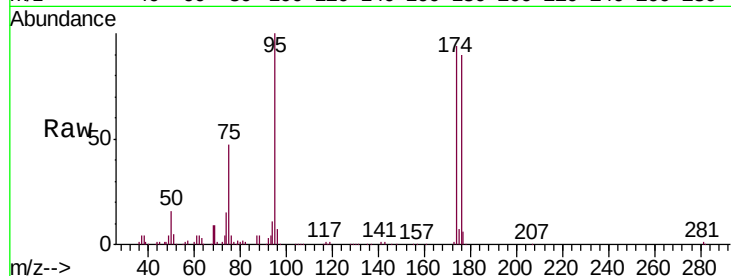




#62
4-Bromofluorobenzene
Concen: 44.317 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

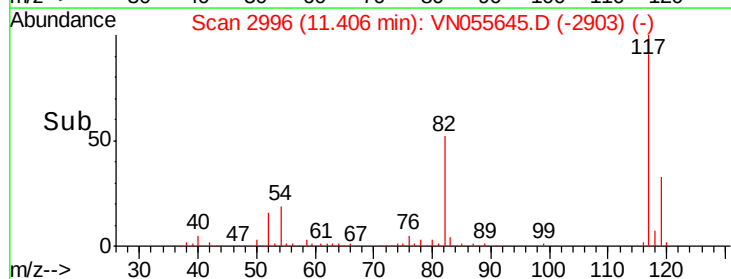
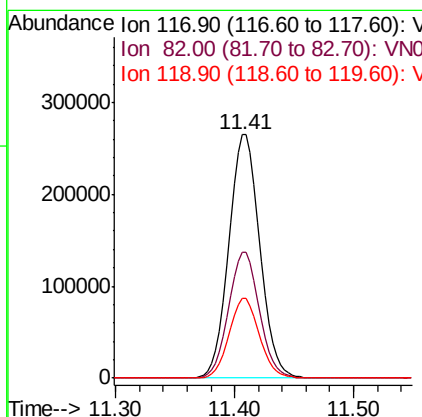
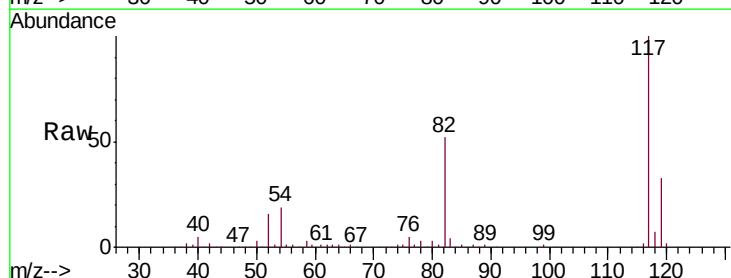
Instrument :
MSVOA_N
ClientSampleId :
MW-17B_R2

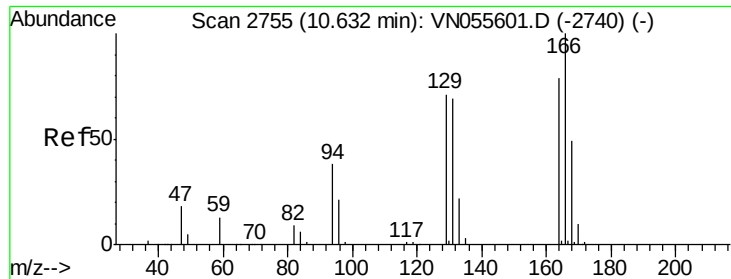
Tgt Ion: 95 Resp: 208728
Ion Ratio Lower Upper
95 100
174 94.4 0.0 180.6
176 91.3 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

Tgt Ion: 117 Resp: 476912
Ion Ratio Lower Upper
117 100
82 51.6 42.3 63.5
119 32.6 25.4 38.2





#64

Tetrachloroethene

Concen: 1.511 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampleId :

MW-17B_R2

Tgt Ion:164 Resp: 5683

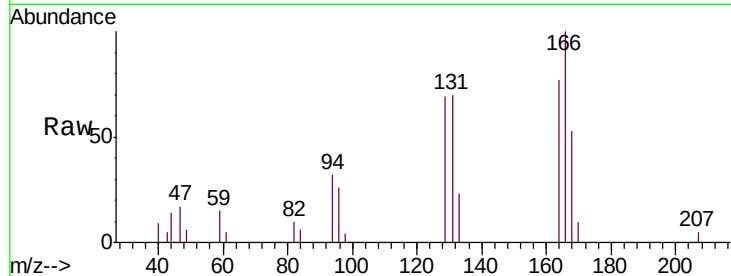
Ion Ratio Lower Upper

164 100

166 130.1 101.0 151.6

129 89.6 71.7 107.5

131 90.9 69.6 104.4



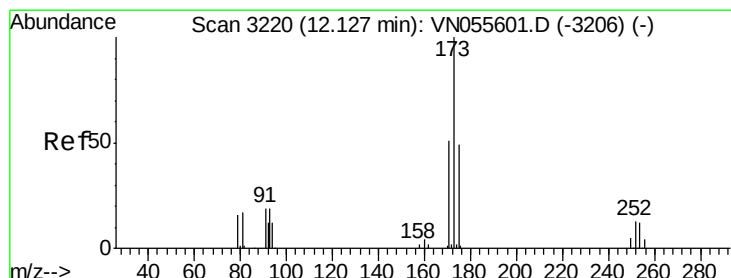
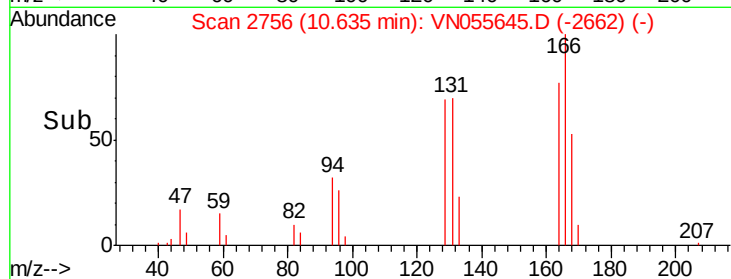
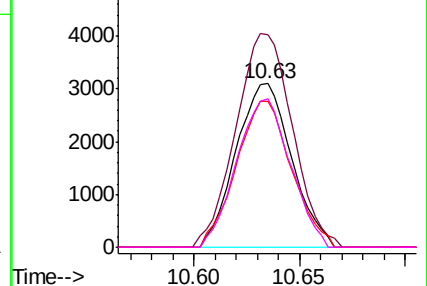
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.409 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

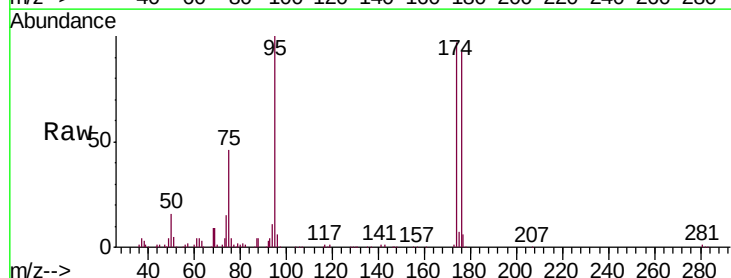
Tgt Ion:173 Resp: 1345

Ion Ratio Lower Upper

173 100

175 921.2 24.3 72.9#

254 0.0 0.1 0.1#

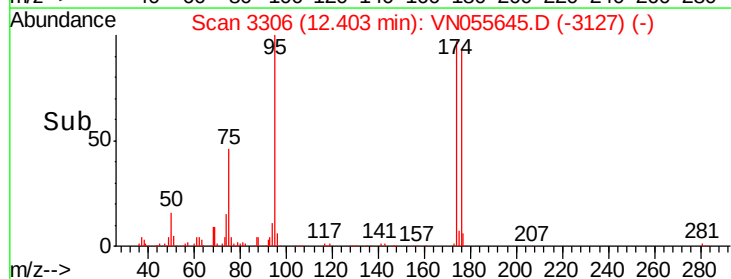
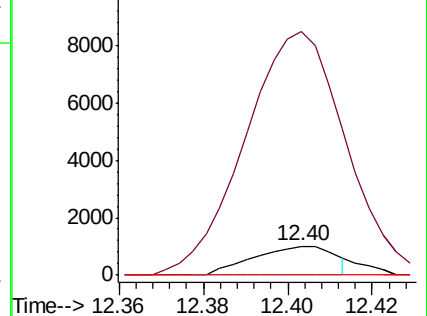


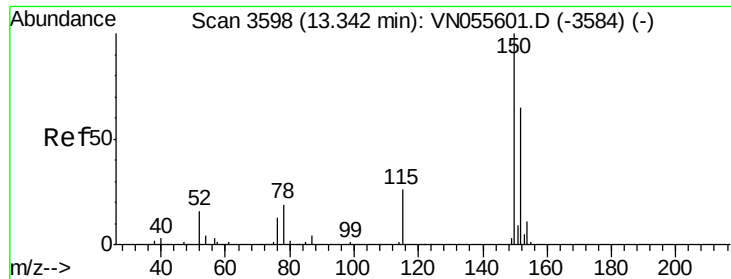
Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampleId :

MW-17B_R2

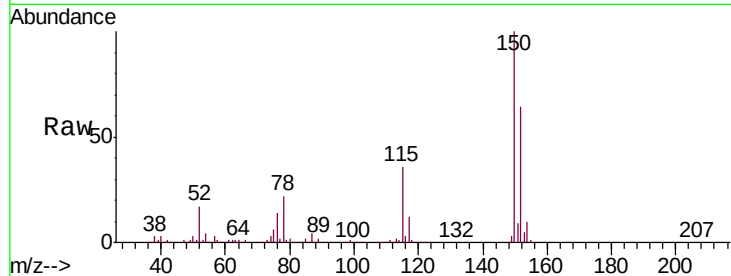
Tgt Ion:152 Resp: 190764

Ion Ratio Lower Upper

152 100

115 55.1 28.1 84.2

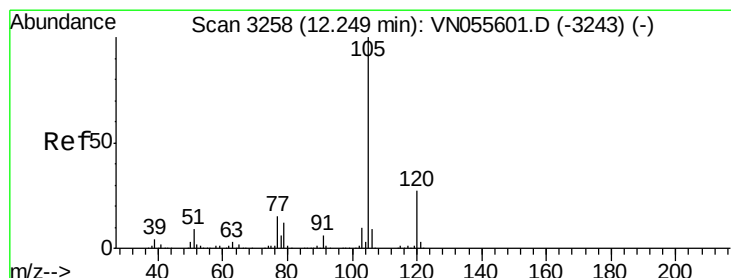
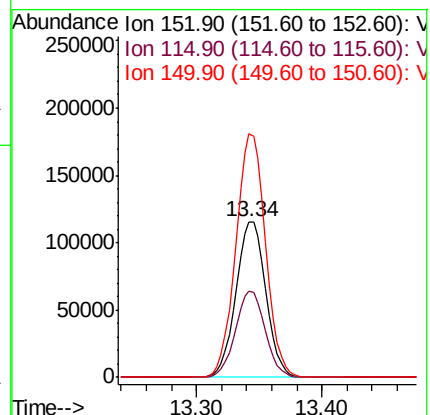
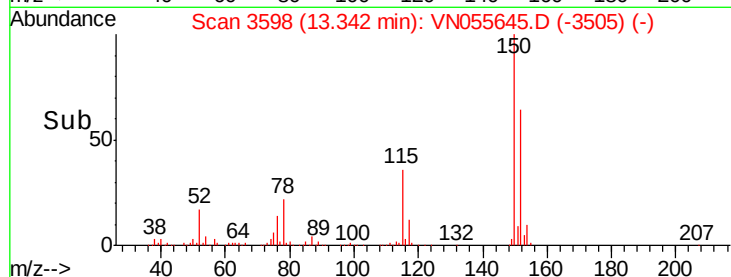
150 155.5 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055645.D

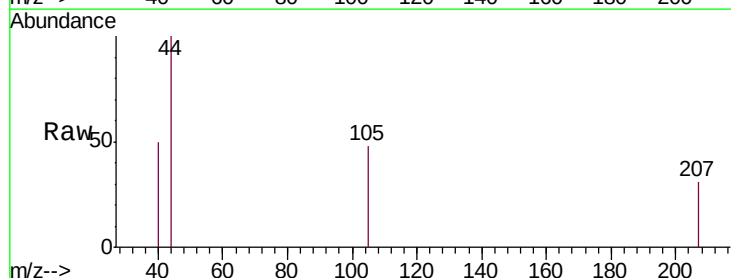
Acq: 18 May 2019 6:07

Tgt Ion:105 Resp: 278

Ion Ratio Lower Upper

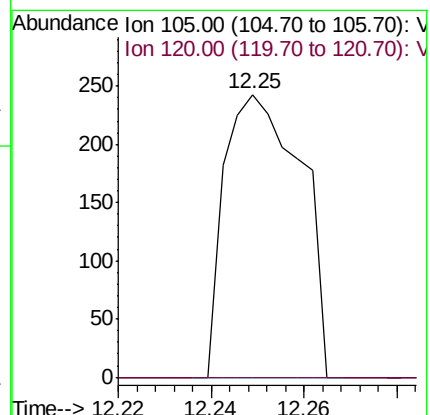
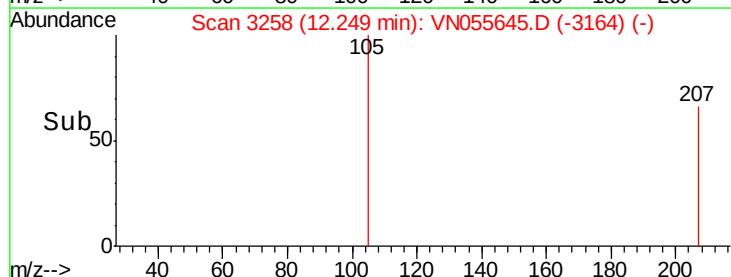
105 100

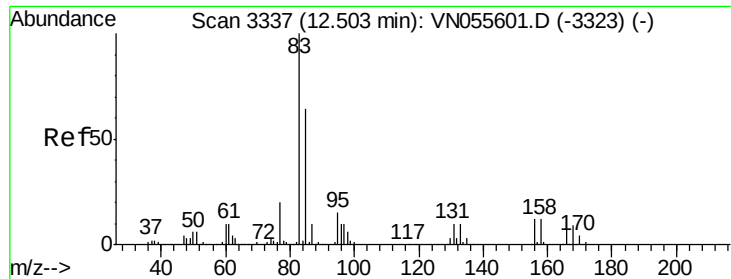
120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.56 min Scan# 3355

Delta R.T. 0.06 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampled :

MW-17B_R2

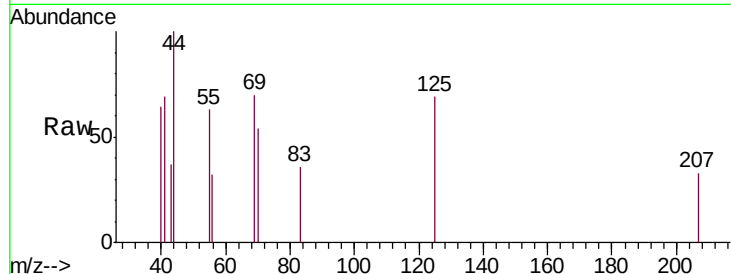
Tgt Ion: 83 Resp: 134

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

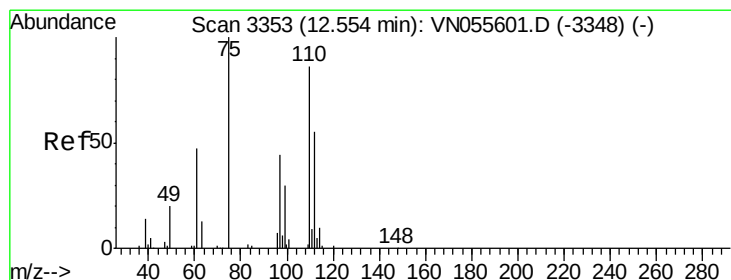
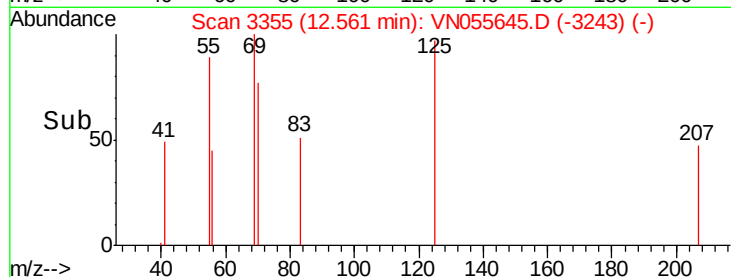
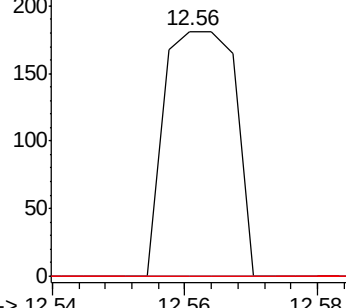
85 0.0 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 24.759 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055645.D

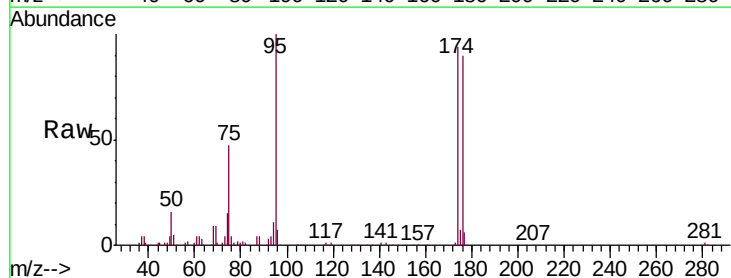
Acq: 18 May 2019 6:07

Tgt Ion: 75 Resp: 96376

Ion Ratio Lower Upper

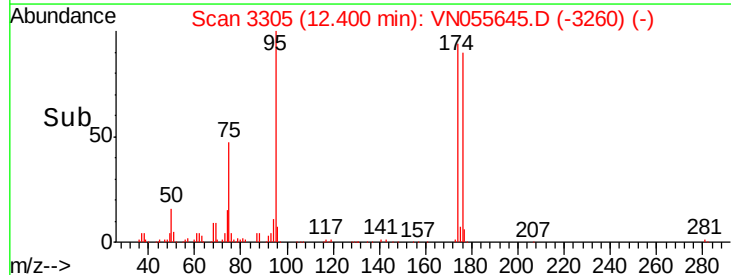
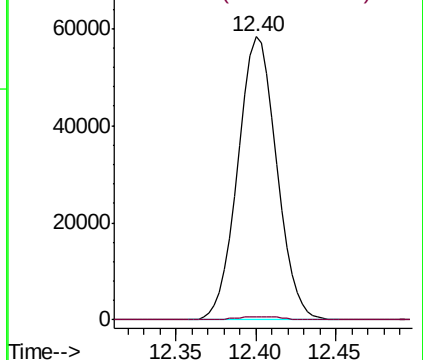
75 100

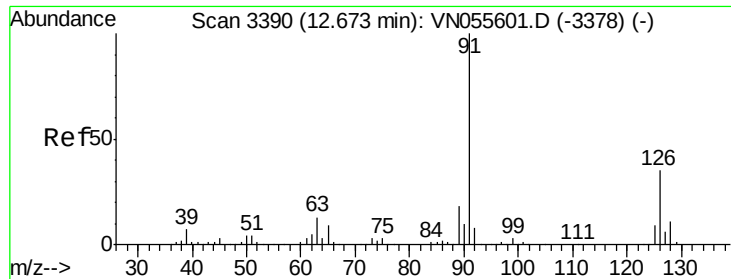
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

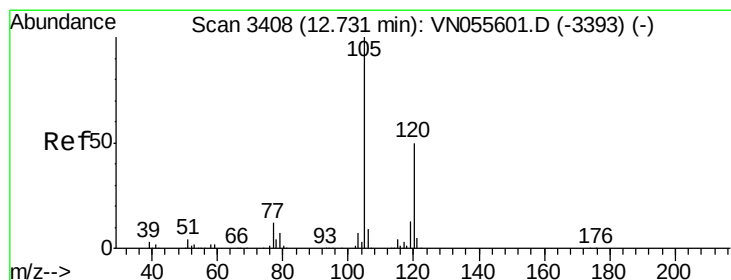
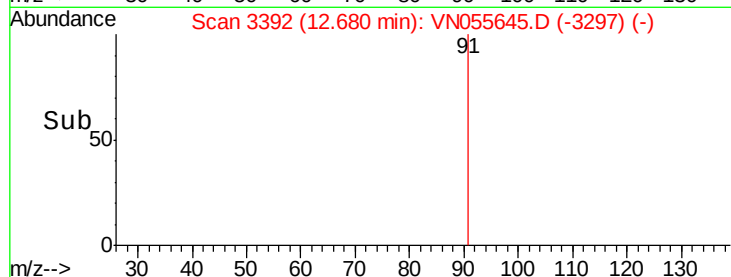
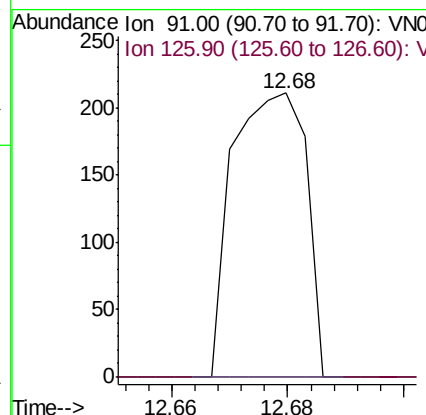
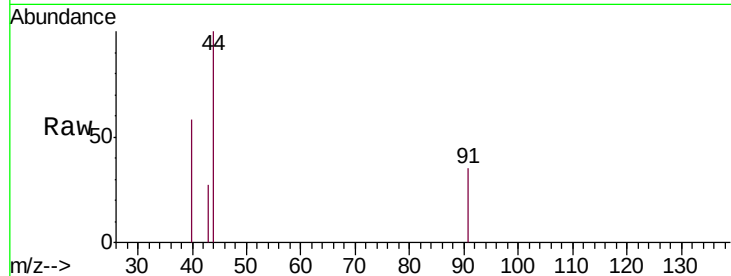




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.68 min Scan# 3392
 Delta R.T. 0.01 min
 Lab File: VN055645.D
 Acq: 18 May 2019 6:07

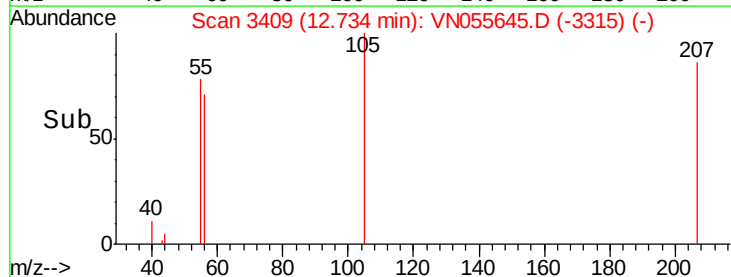
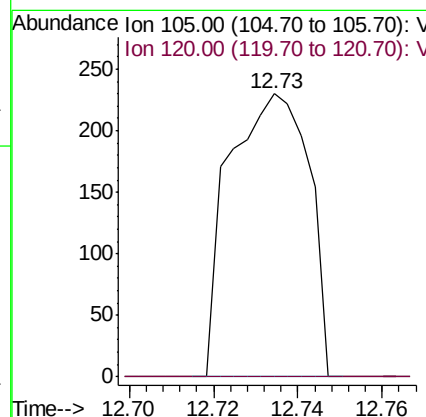
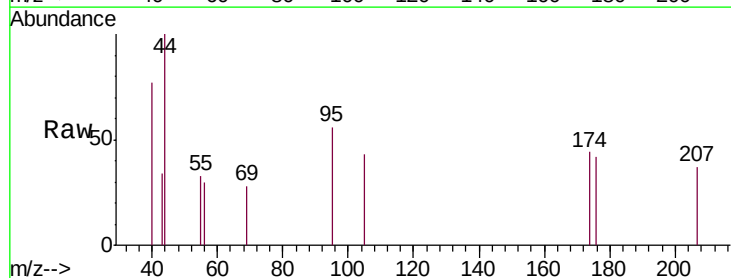
Instrument :
 MSVOA_N
 ClientSampled :
 MW-17B_R2

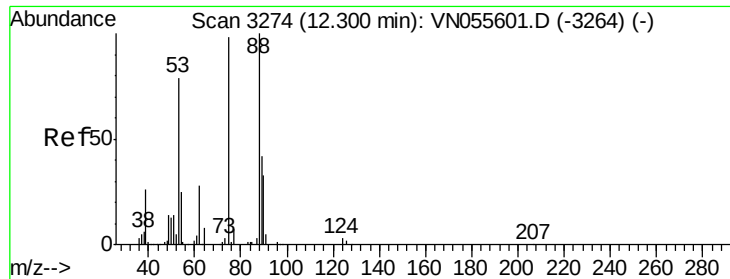
Tgt Ion: 91 Resp: 185
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055645.D
 Acq: 18 May 2019 6:07

Tgt Ion: 105 Resp: 302
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.6 74.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 63.645 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

Instrument :

MSVOA_N

ClientSampleId :

MW-17B_R2

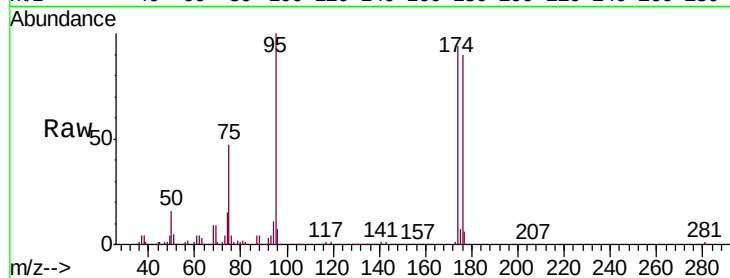
Tgt Ion: 75 Resp: 96376

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

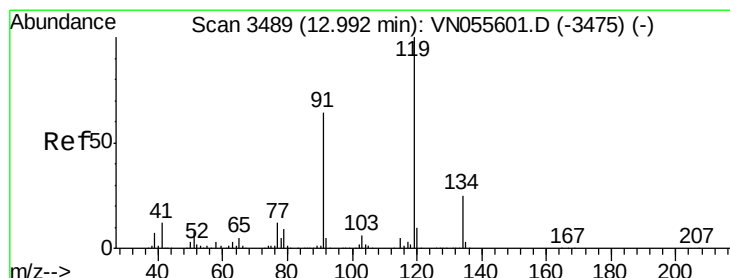
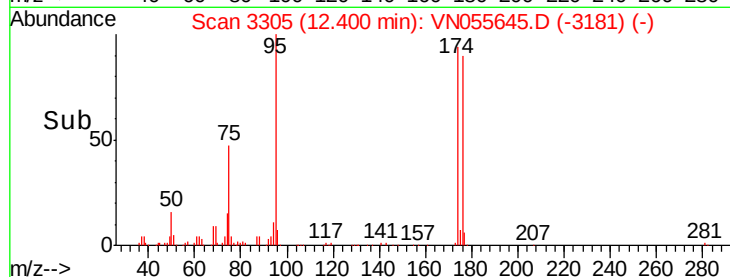
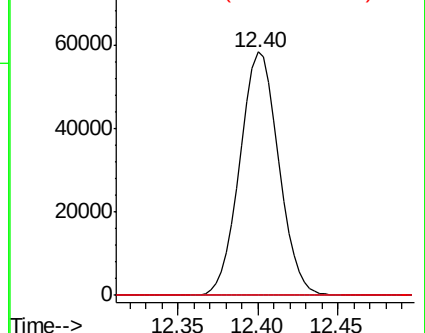
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055645.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055645.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055645.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055645.D

Acq: 18 May 2019 6:07

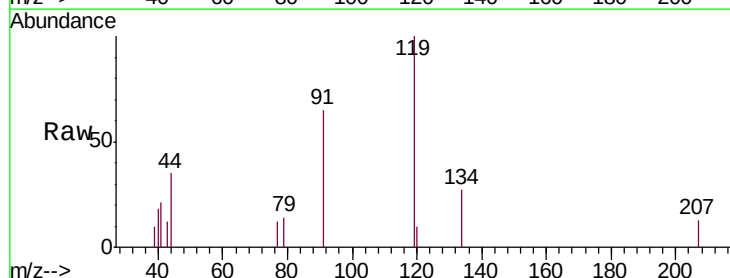
Tgt Ion: 119 Resp: 2422

Ion Ratio Lower Upper

119 100

91 66.1 31.3 93.8

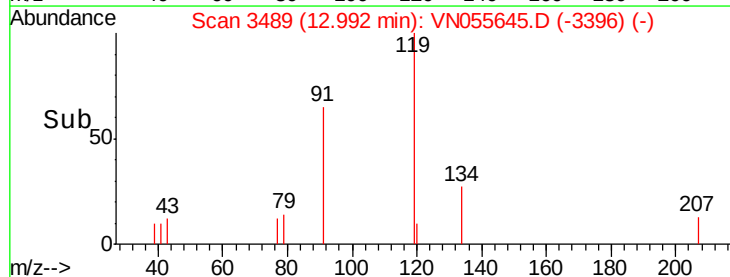
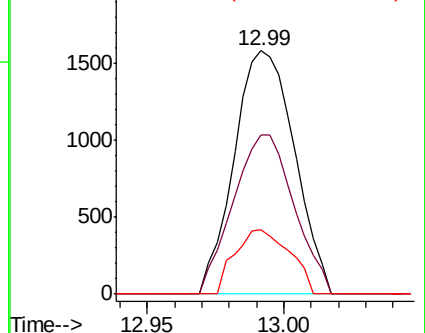
134 24.0 13.2 39.6

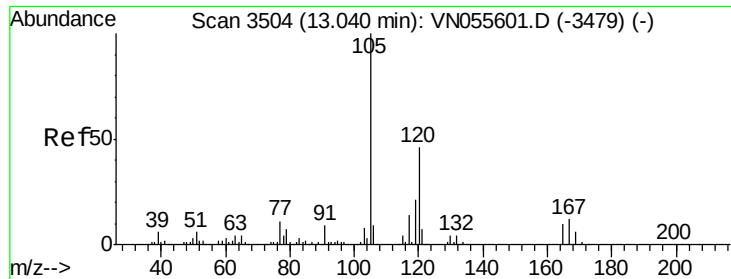


Abundance Ion 119.00 (118.70 to 119.70): VN055645.D (-3489) (-)

Ion 91.00 (90.70 to 91.70): VN055645.D (-3489) (-)

Ion 134.00 (133.70 to 134.70): VN055645.D (-3489) (-)

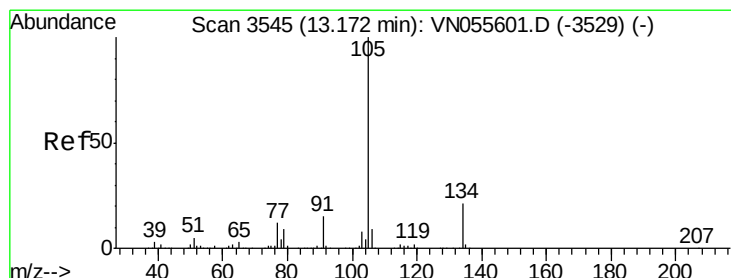
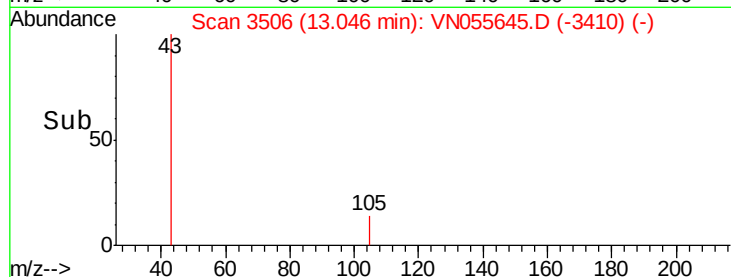
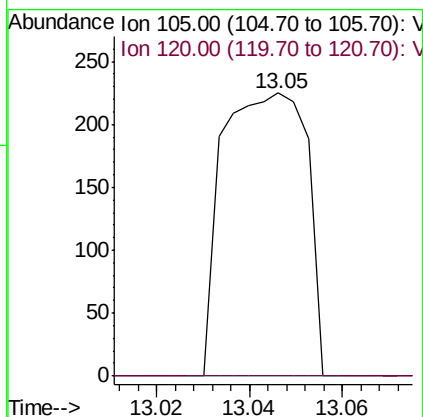
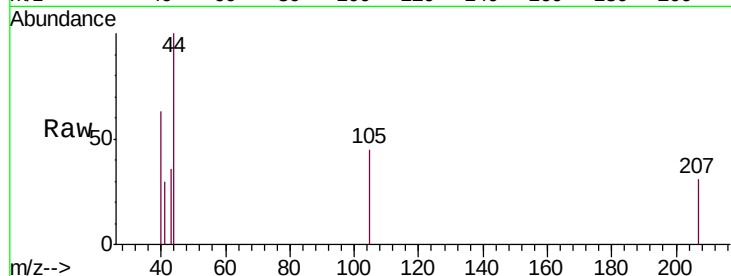




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.01 min
 Lab File: VN055645.D
 Acq: 18 May 2019 6:07

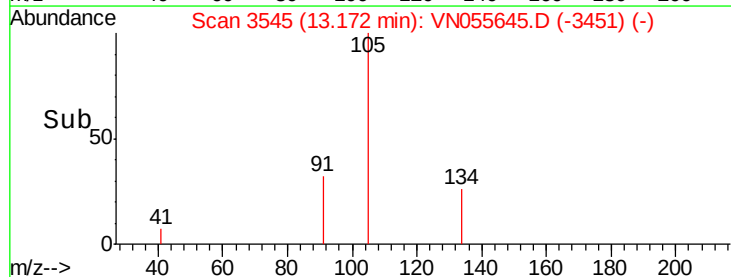
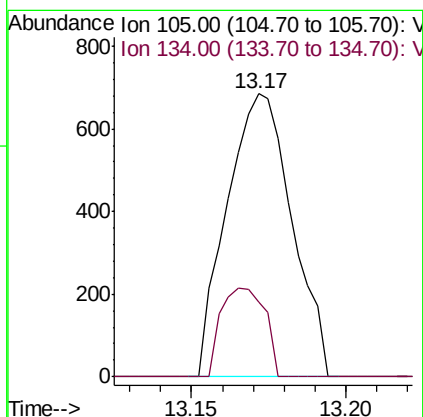
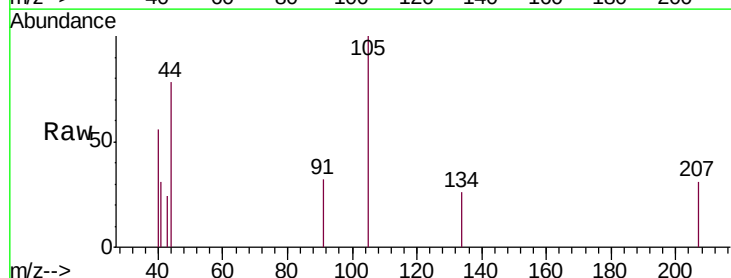
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17B_R2

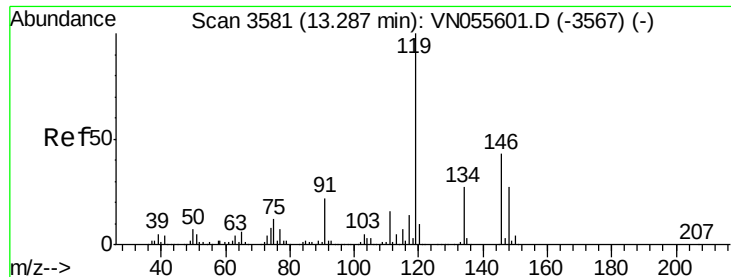
Tgt Ion:105 Resp: 283
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.2#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055645.D
 Acq: 18 May 2019 6:07

Tgt Ion:105 Resp: 1000
 Ion Ratio Lower Upper
 105 100
 134 21.5 10.3 30.9

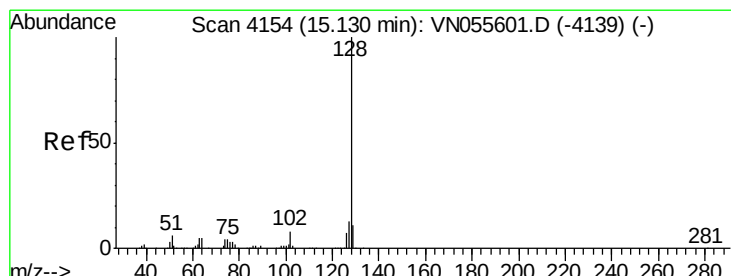
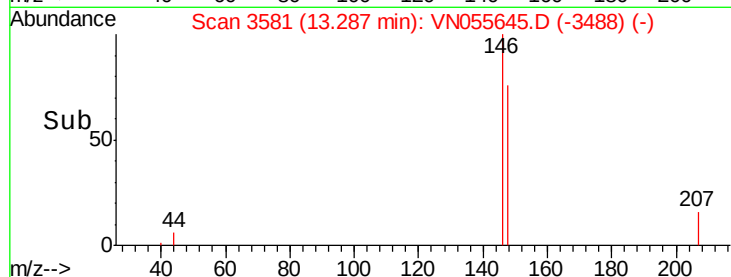
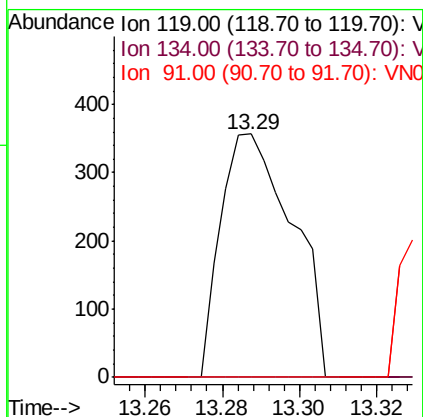
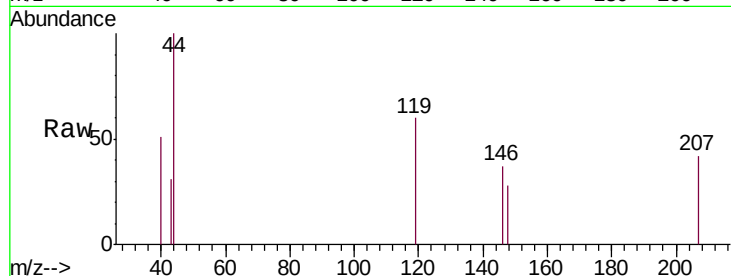




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

Instrument :
MSVOA_N
ClientSampled :
MW-17B_R2

Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.4	40.2#
91	0.0	11.0	33.0#



#95
Naphthalene
Concen: 1.807 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055645.D
Acq: 18 May 2019 6:07

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.6	12.8#

