

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060753.D
 Acq On : 27 Mar 2020 19:53
 Operator : JC/MD
 Sample : L2040-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-06

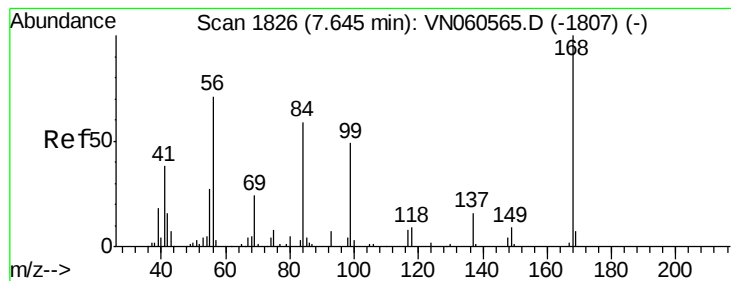
Quant Time: Mar 28 02:03:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	191519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	320499	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307238	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142151	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	126853	48.25	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.50%	
35) Dibromofluoromethane	7.56	113	96369	49.73	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.46%	
50) Toluene-d8	10.08	98	402131	50.80	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	12.40	95	151540	52.24	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	6401	6.873	ug/l	92
18) Methyl Acetate	4.29	43	1919	0.732	ug/l #	61
20) Methylene Chloride	4.52	84	4532	1.978	ug/l #	90
25) 2-Butanone	6.78	43	479	0.318	ug/l #	50
31) Cyclohexane	7.64	56	4126	0.974	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15142	4.879	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18453	6.634	ug/l #	16
43) Isopropyl Acetate	8.14	43	62492	11.300	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1042	0.422	ug/l #	43
48) Methyl methacrylate	9.16	41	3214	1.305	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4597	1.461	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	26142	6.680	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3969	1.051	ug/l #	42
59) 2-Hexanone	10.75	43	61895	27.304	ug/l #	52
71) Bromoform	12.40	173	538	1.964	ug/l #	1
74) N-amyl acetate	12.02	43	3520	0.714	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	76322	24.882	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76322	63.905	ug/l #	13
95) Naphthalene	15.13	128	1786	0.223	ug/l #	71

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Instrument :

MSVOA_N

ClientSampled :

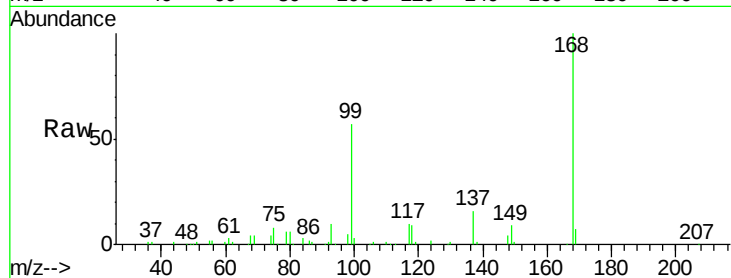
RO-06

Tgt Ion:168 Resp: 191519

Ion Ratio Lower Upper

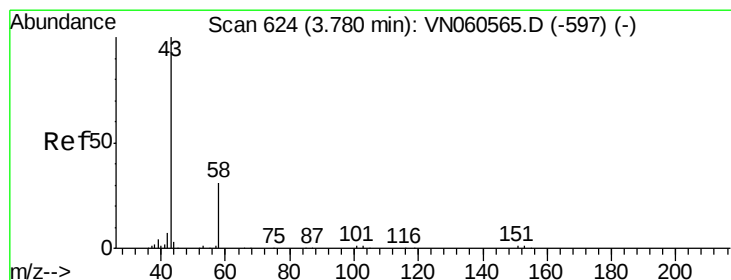
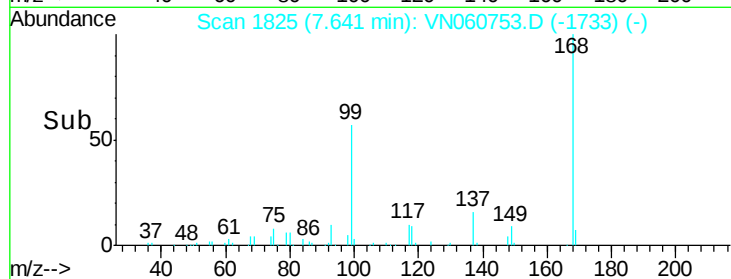
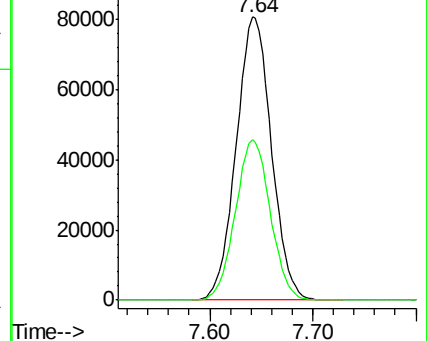
168 100

99 56.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 6.873 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060753.D

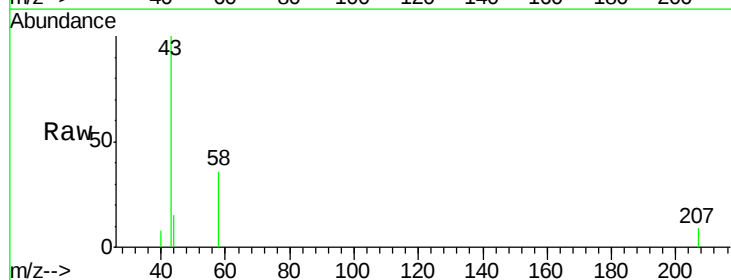
Acq: 27 Mar 2020 19:53

Tgt Ion: 43 Resp: 6401

Ion Ratio Lower Upper

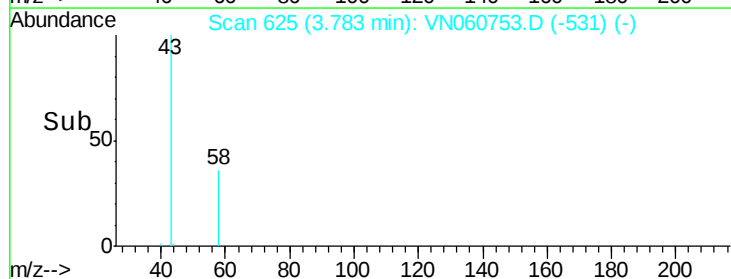
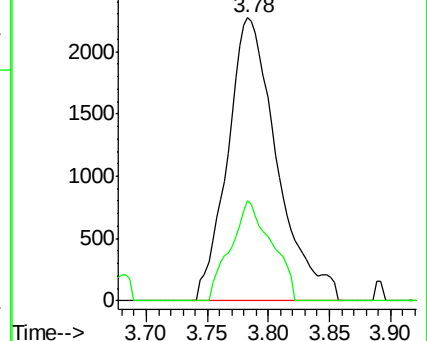
43 100

58 35.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

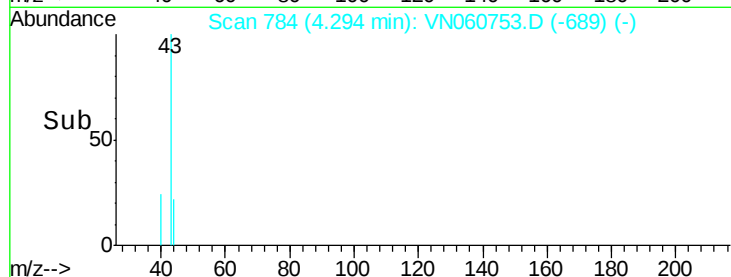
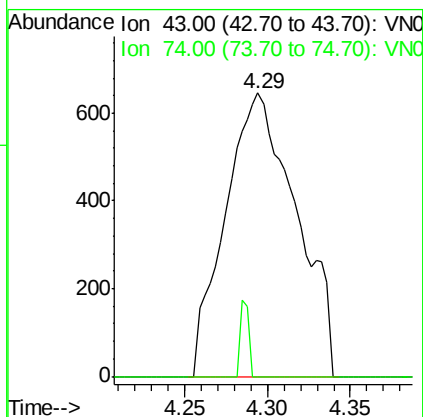
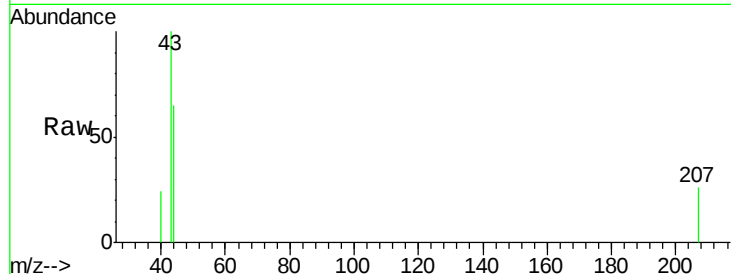




#18
Methyl Acetate
Concen: 0.732 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

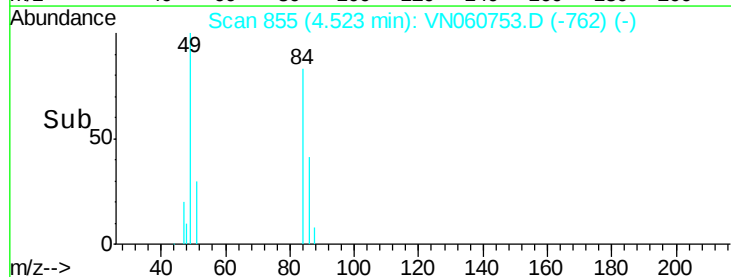
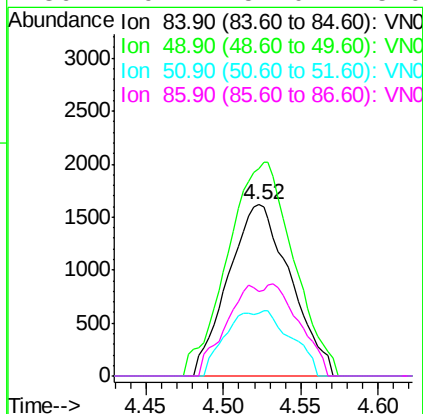
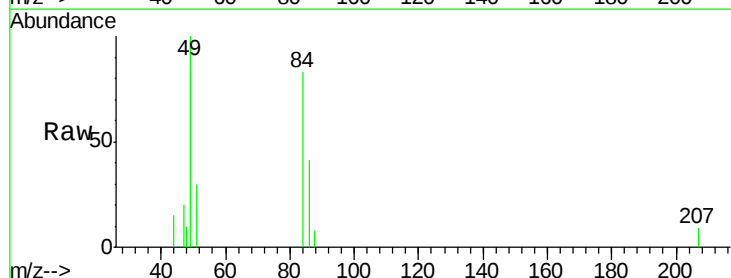
Instrument :
MSVOA_N
ClientSampleId :
RO-06

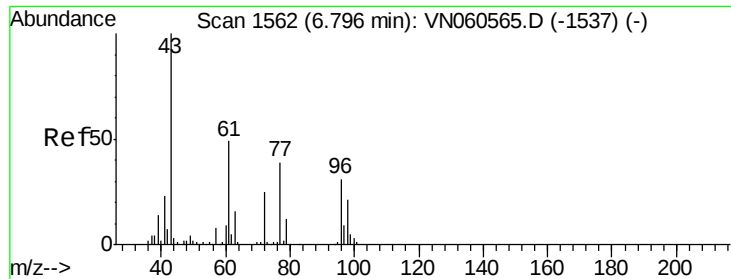
Tgt Ion: 43 Resp: 1919
Ion Ratio Lower Upper
43 100
74 3.3 17.5 26.3#



#20
Methylene Chloride
Concen: 1.978 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

Tgt Ion: 84 Resp: 4532
Ion Ratio Lower Upper
84 100
49 120.8 103.3 154.9
51 36.5 31.6 47.4
86 49.2 52.0 78.0#

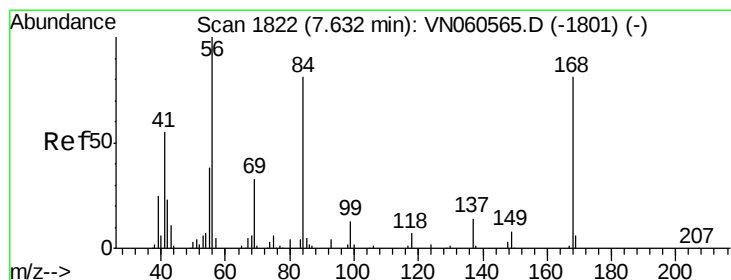
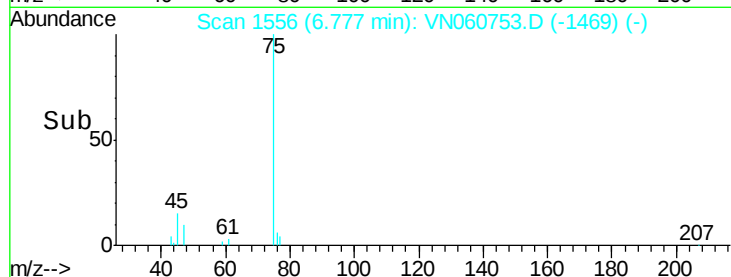
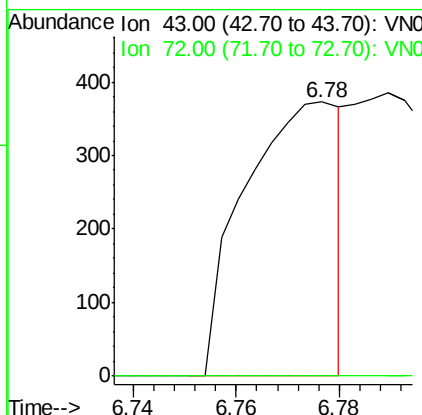
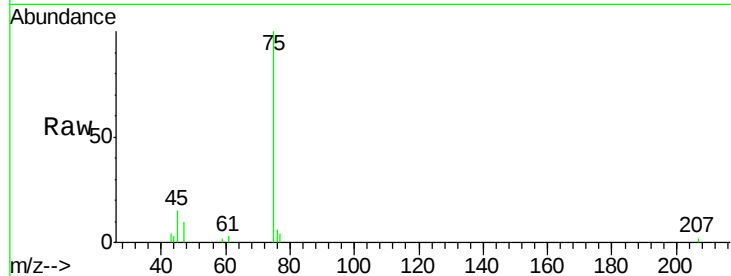




#25
2-Butanone
Concen: 0.318 ug/l
RT: 6.78 min Scan# 1556
Delta R.T. -0.02 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

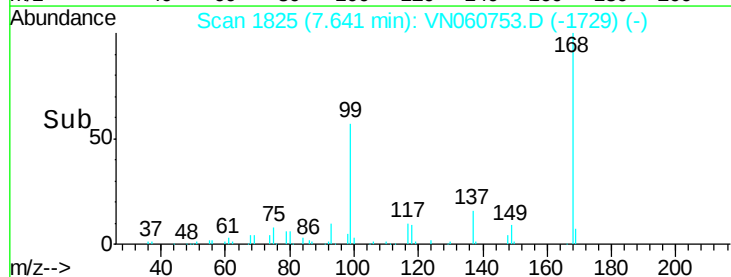
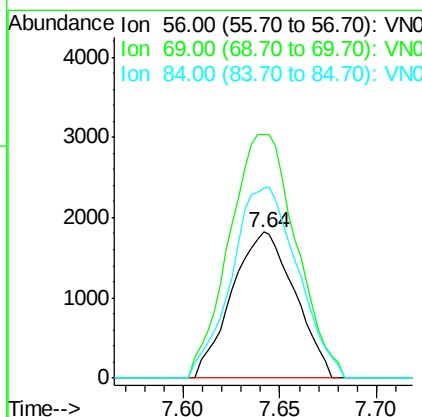
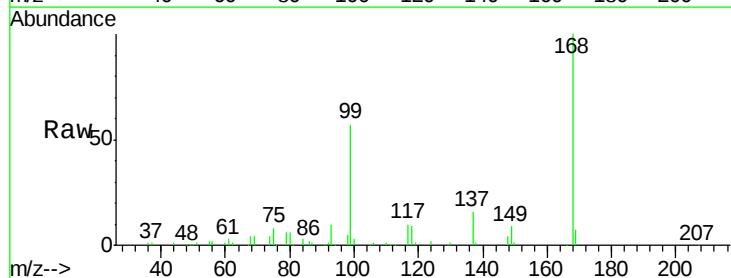
Instrument :
MSVOA_N
ClientSampleId :
RO-06

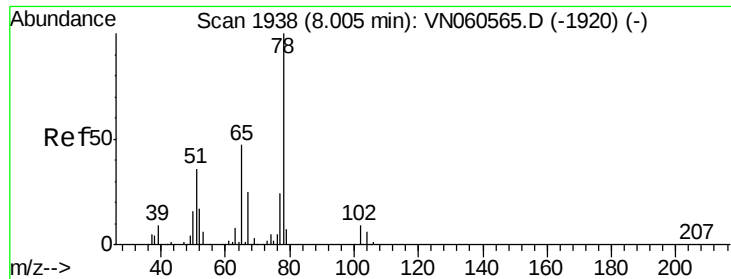
Tgt Ion: 43 Resp: 479
Ion Ratio Lower Upper
43 100
72 0.0 20.4 30.6#



#31
Cyclohexane
Concen: 0.974 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

Tgt Ion: 56 Resp: 4126
Ion Ratio Lower Upper
56 100
69 166.9 26.6 40.0#
84 130.1 64.3 96.5#

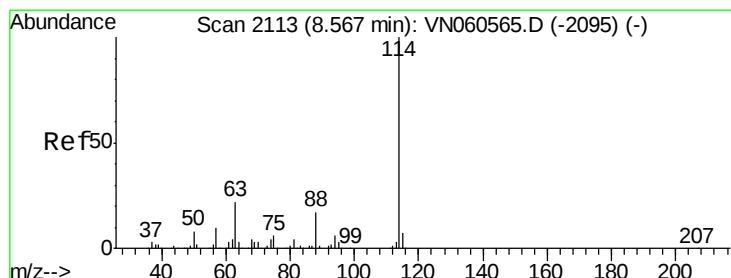
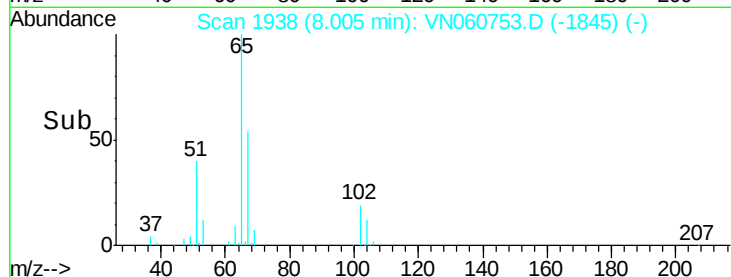
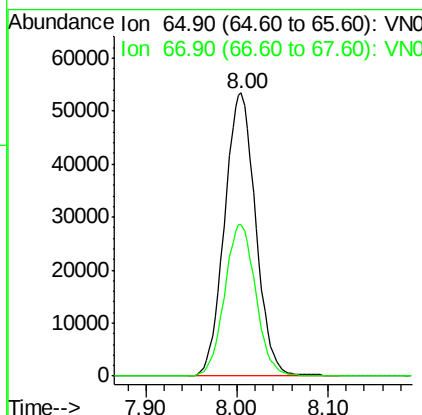
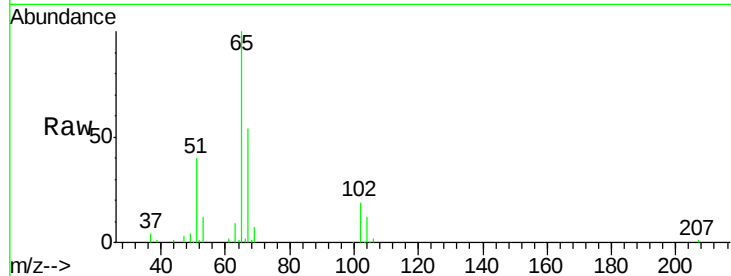




#33
 1,2-Dichloroethane-d4
 Concen: 48.249 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060753.D
 Acq: 27 Mar 2020 19:53

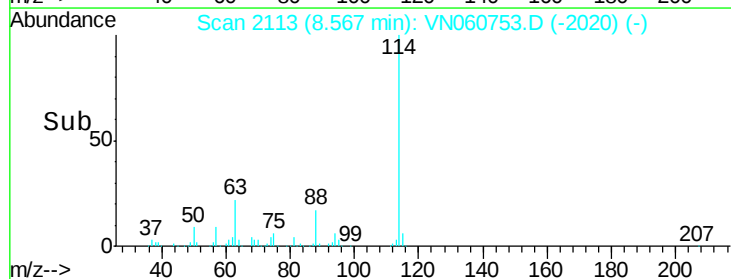
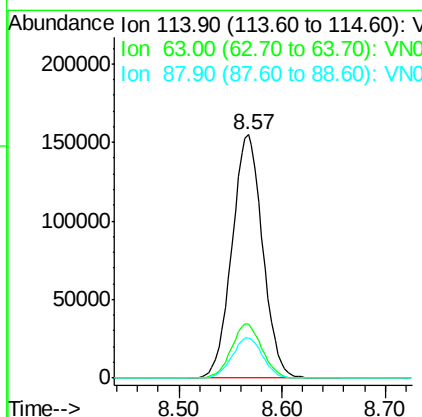
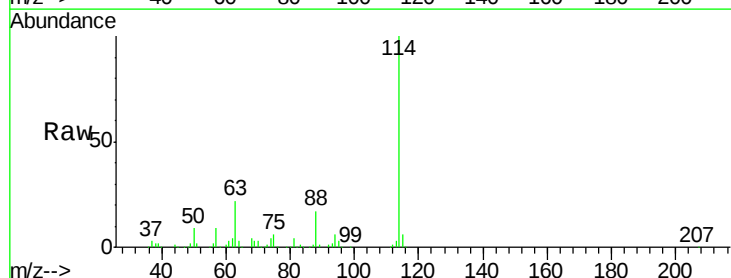
Instrument :
 MSVOA_N
 ClientSampled :
 RO-06

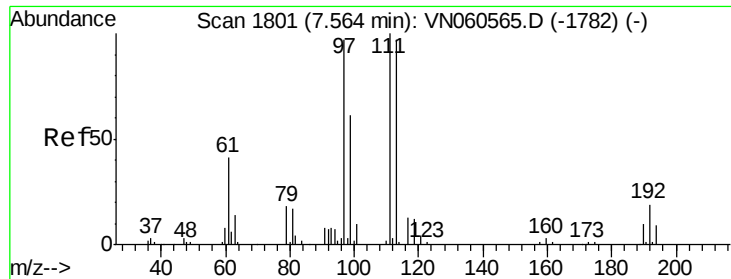
Tgt Ion: 65 Resp: 126853
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060753.D
 Acq: 27 Mar 2020 19:53

Tgt Ion: 114 Resp: 320499
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.8
 88 16.6 0.0 33.0

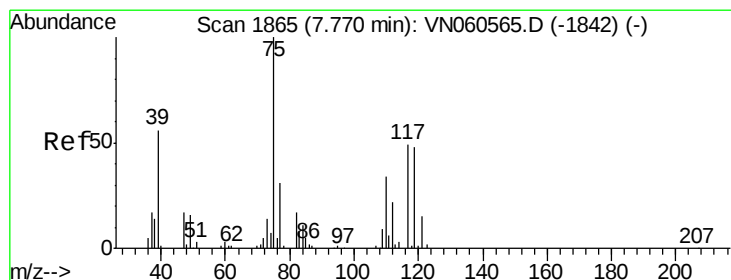
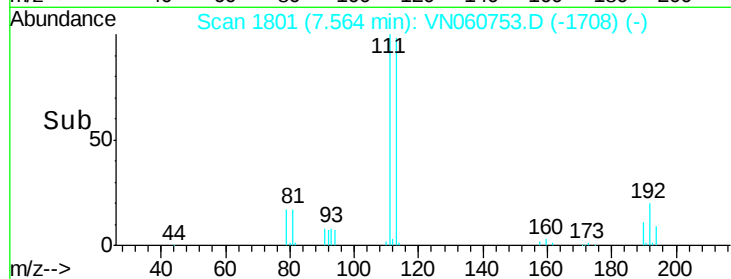
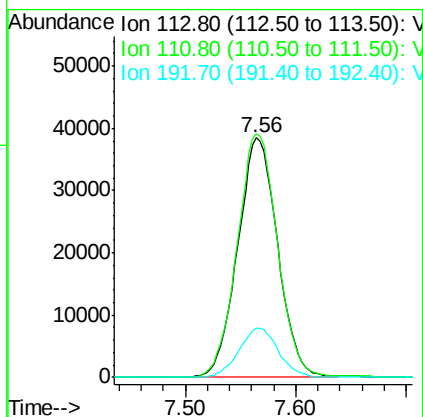
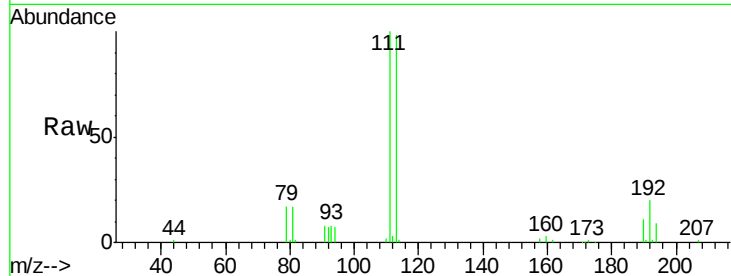




#35
 Dibromofluoromethane
 Concen: 49.727 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060753.D
 Acq: 27 Mar 2020 19:53

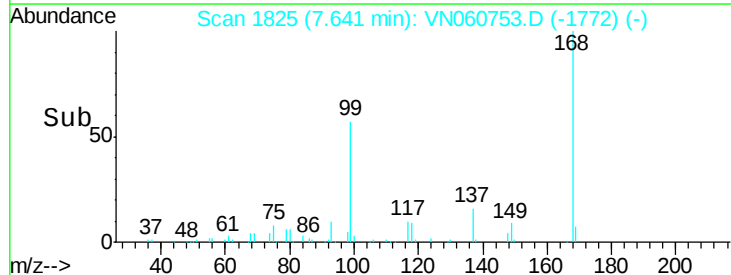
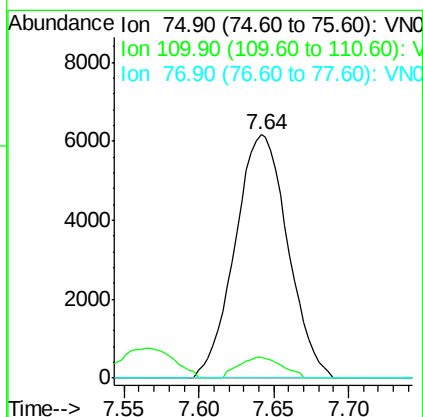
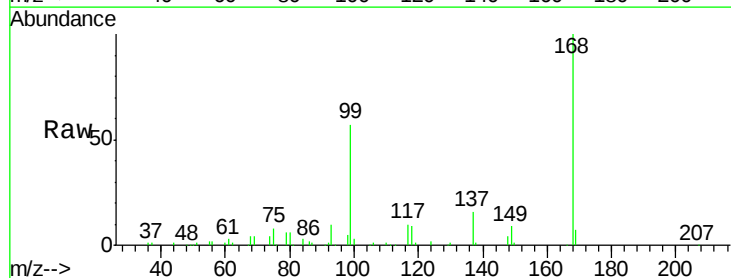
Instrument :
 MSVOA_N
 ClientSampled :
 RO-06

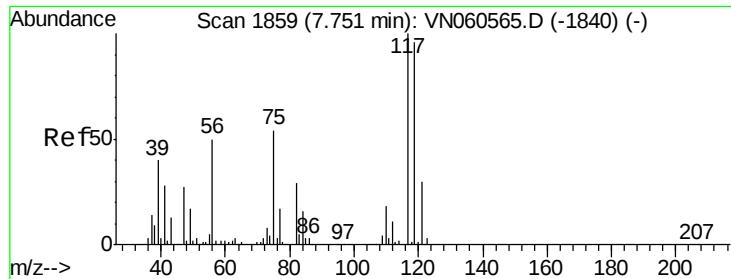
Tgt Ion:113 Resp: 96369
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.9 124.3
 192 20.2 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.879 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060753.D
 Acq: 27 Mar 2020 19:53

Tgt Ion: 75 Resp: 15142
 Ion Ratio Lower Upper
 75 100
 110 7.1 16.9 50.6#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.634 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Instrument :

MSVOA_N

ClientSampled :

RO-06

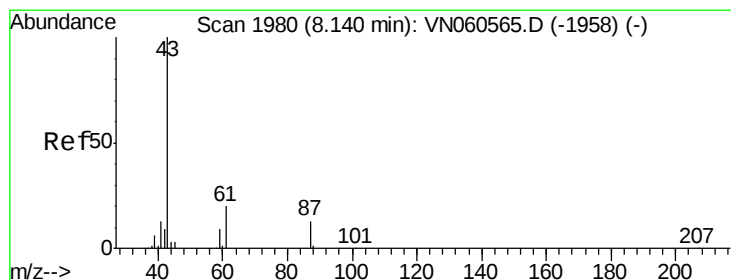
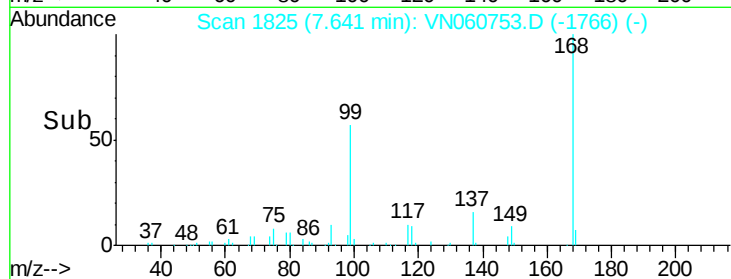
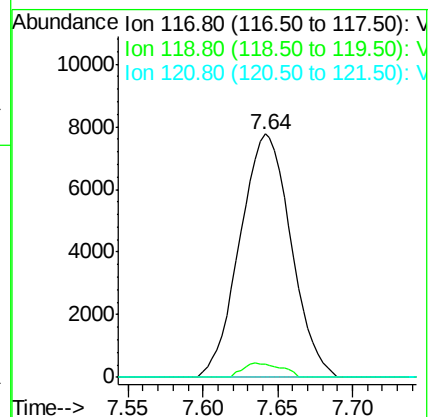
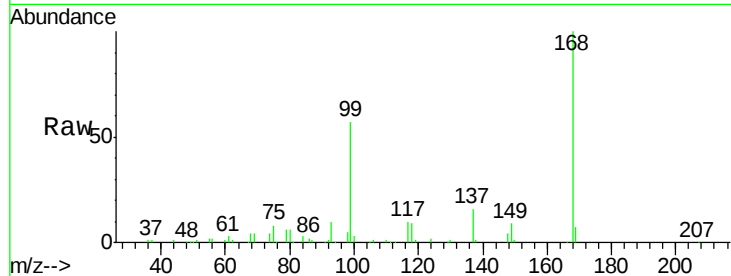
Tgt Ion:117 Resp: 18453

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

121 0.0 23.7 35.5#



#43

Isopropyl Acetate

Concen: 11.300 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

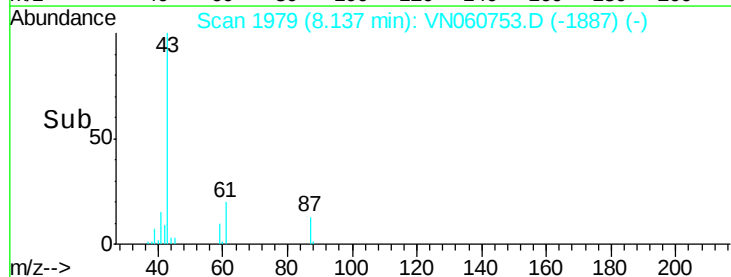
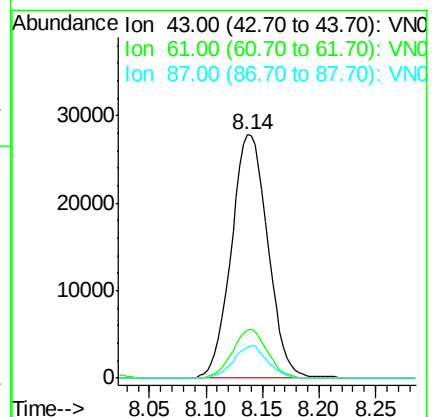
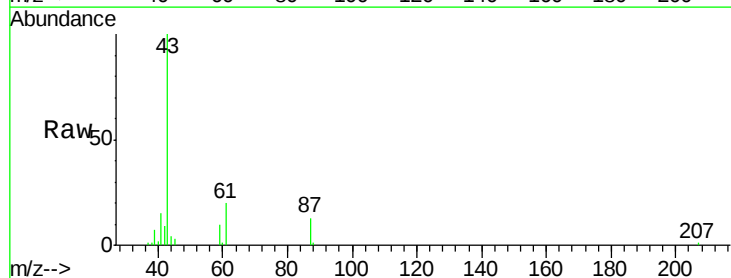
Tgt Ion: 43 Resp: 62492

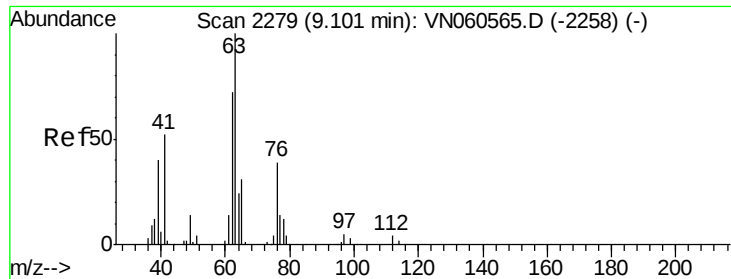
Ion Ratio Lower Upper

43 100

61 19.0 20.7 31.1#

87 12.3 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.422 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Instrument :

MSVOA_N

ClientSampleId :

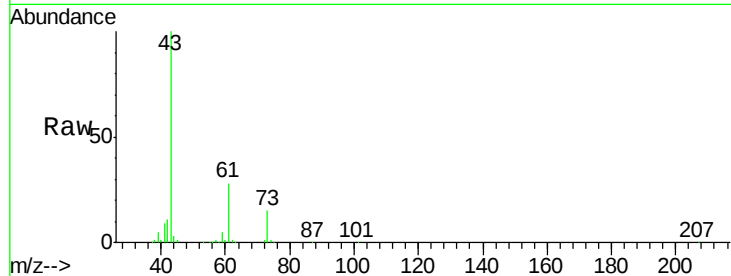
RO-06

Tgt Ion: 63 Resp: 1042

Ion Ratio Lower Upper

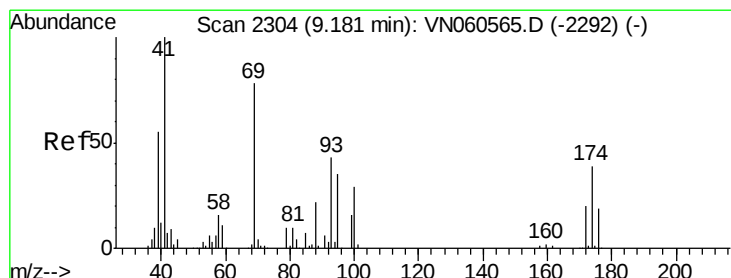
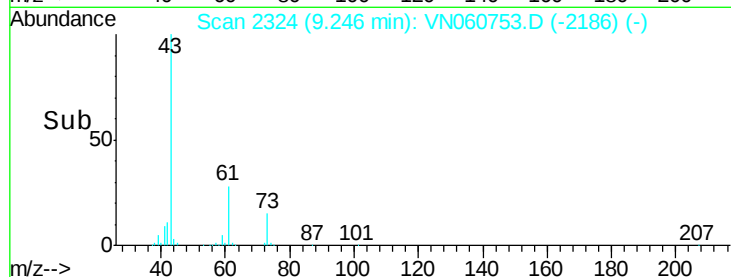
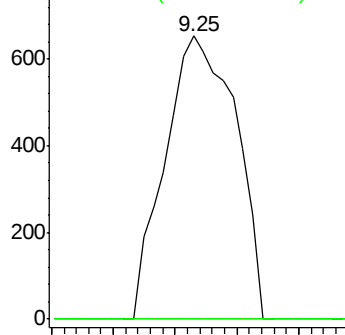
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.305 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

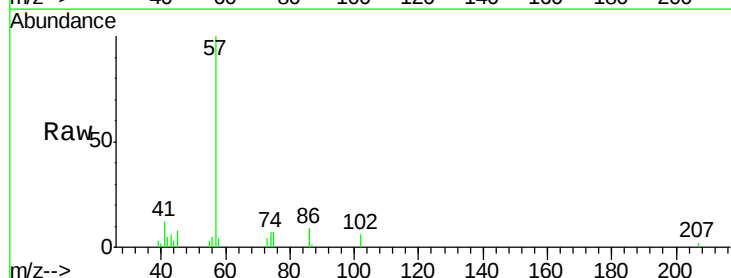
Tgt Ion: 41 Resp: 3214

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

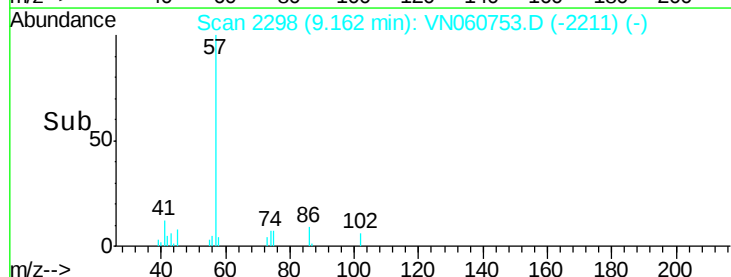
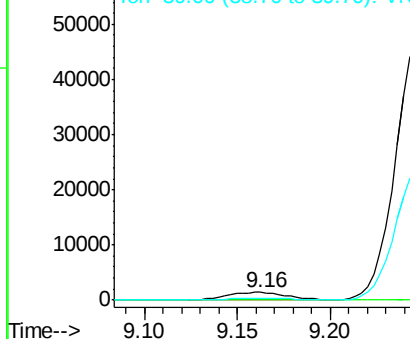
39 0.0 44.0 66.0#

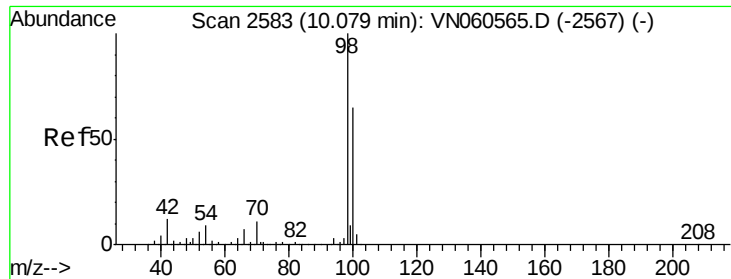


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

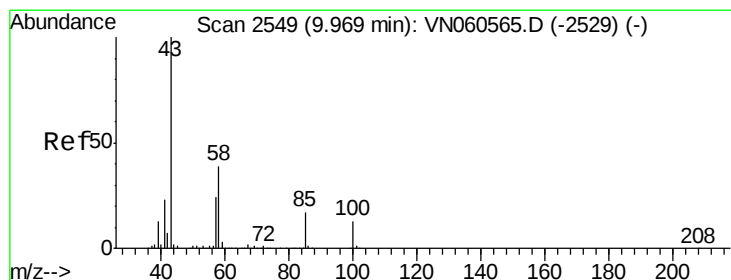
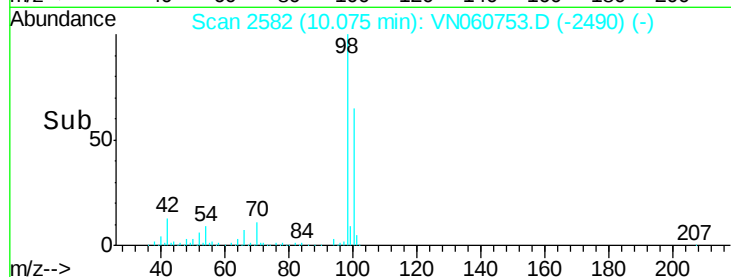
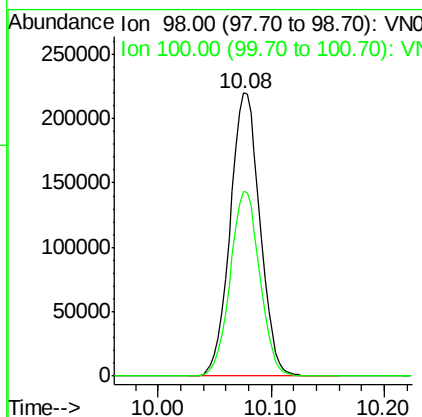
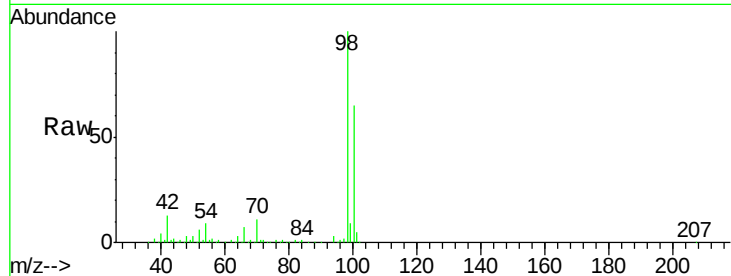




#50
Toluene-d8
Concen: 50.801 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

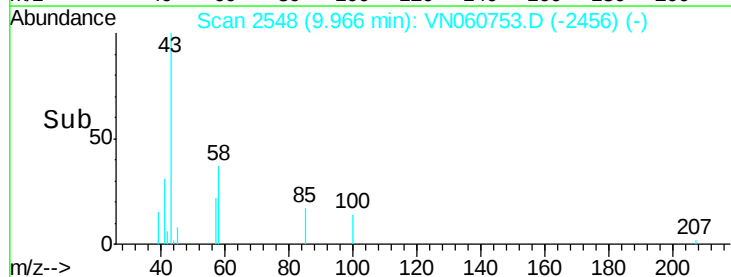
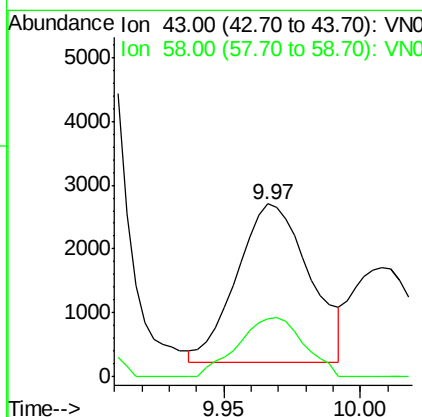
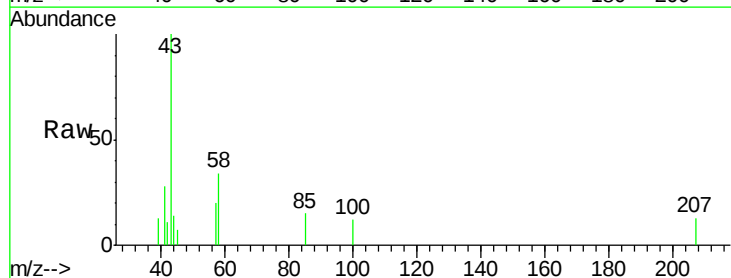
Instrument :
MSVOA_N
ClientSampled :
RO-06

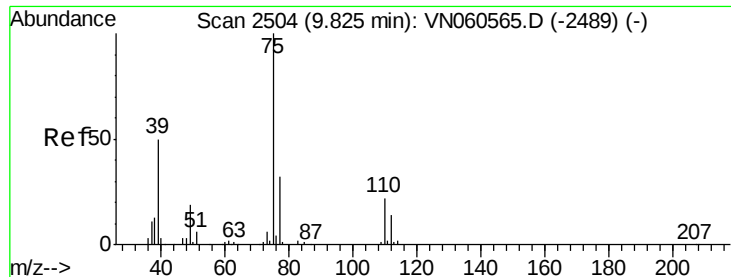
Tgt Ion: 98 Resp: 402131
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.461 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

Tgt Ion: 43 Resp: 4597
Ion Ratio Lower Upper
43 100
58 33.8 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 6.680 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Instrument :

MSVOA_N

ClientSampleId :

RO-06

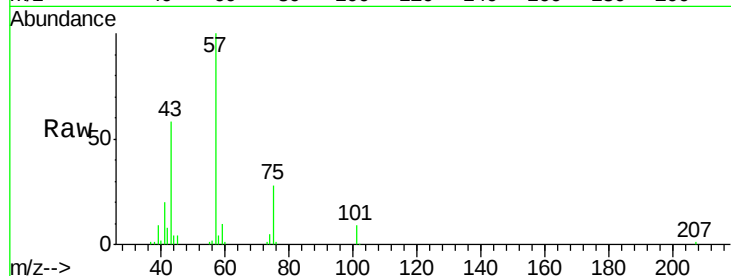
Tgt Ion: 75 Resp: 26142

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 31.5 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060753.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060753.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060753.D (-2411) (-)

9.89

15000

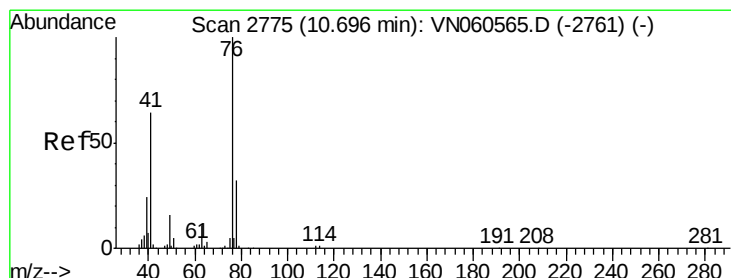
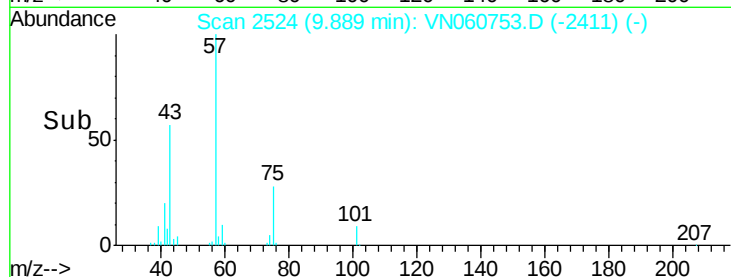
10000

5000

0

9.85 9.90 9.95

Time-->



#57

1,3-Dichloropropane

Concen: 1.051 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060753.D

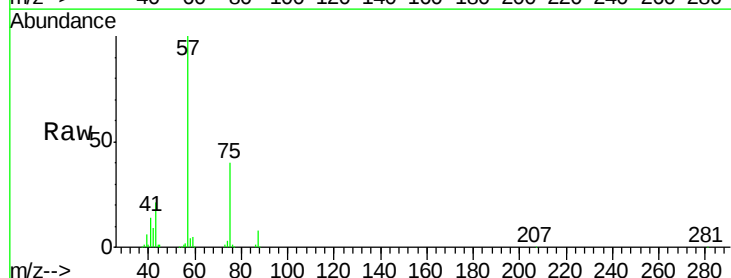
Acq: 27 Mar 2020 19:53

Tgt Ion: 76 Resp: 3969

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060753.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060753.D (-2682) (-)

10.75

2500

2000

1500

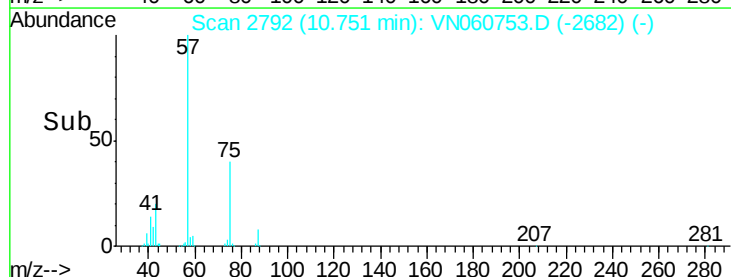
1000

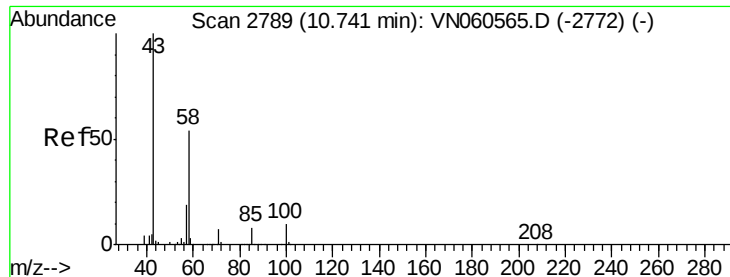
500

0

10.70 10.75 10.80

Time-->

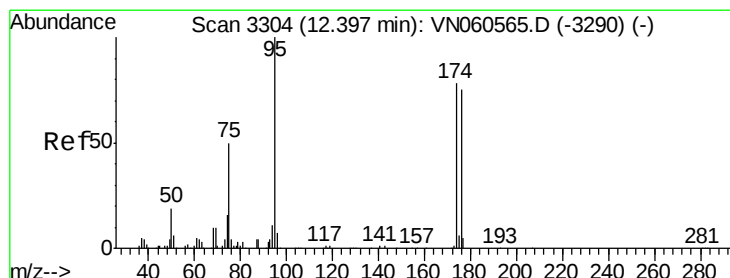
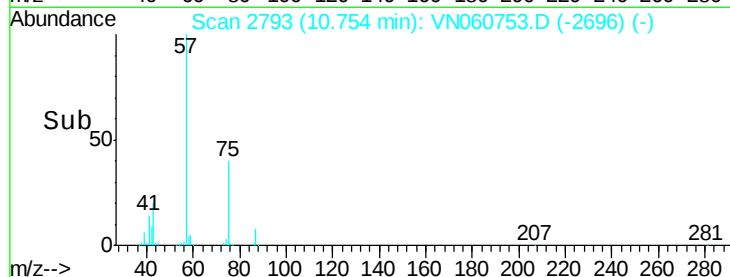
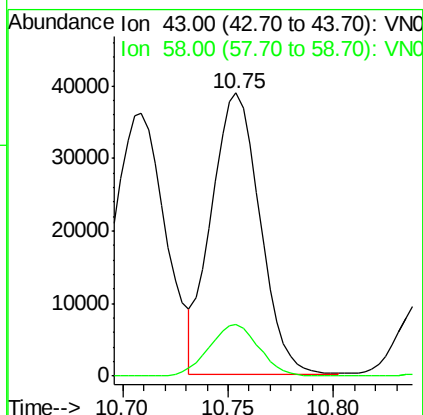
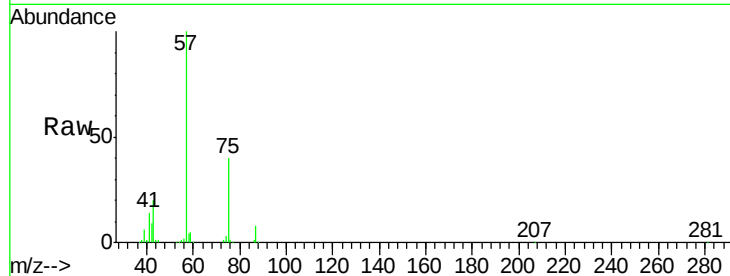




#59
2-Hexanone
Concen: 27.304 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

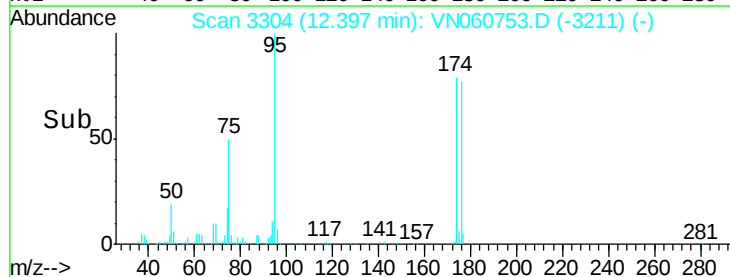
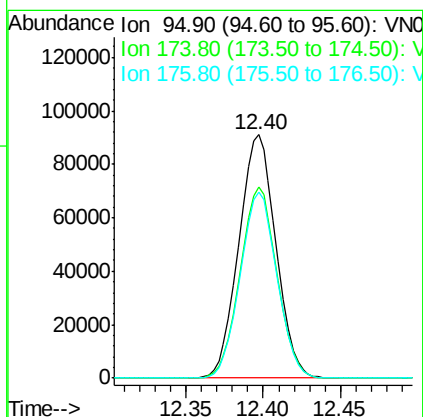
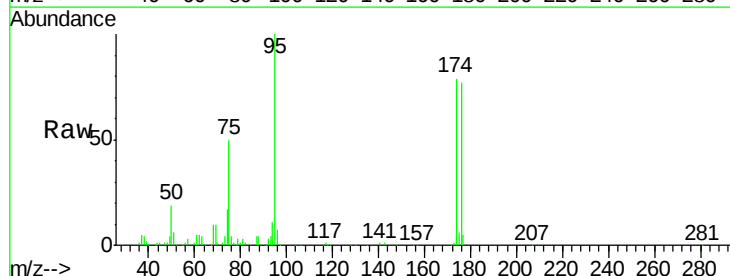
Instrument :
MSVOA_N
ClientSampled :
RO-06

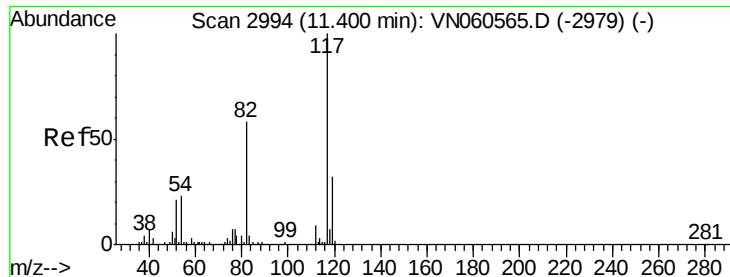
Tgt Ion: 43 Resp: 61895
Ion Ratio Lower Upper
43 100
58 18.9 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.237 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

Tgt Ion: 95 Resp: 151540
Ion Ratio Lower Upper
95 100
174 78.1 0.0 157.6
176 76.0 0.0 150.6

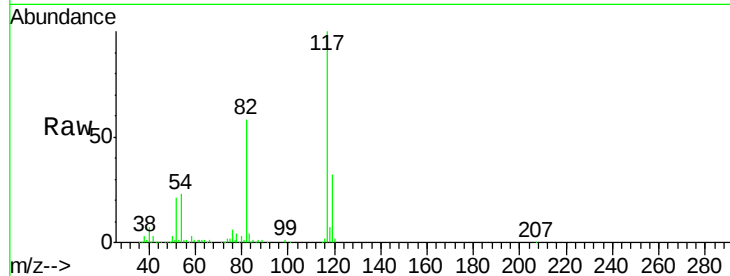




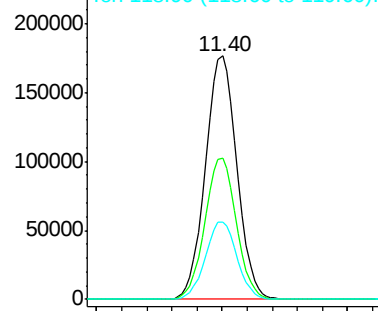
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

Instrument :
MSVOA_N
ClientSampled :
RO-06

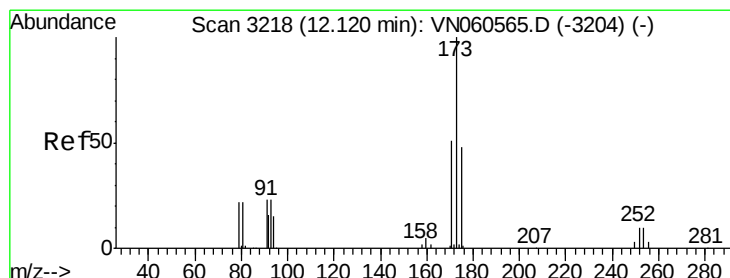
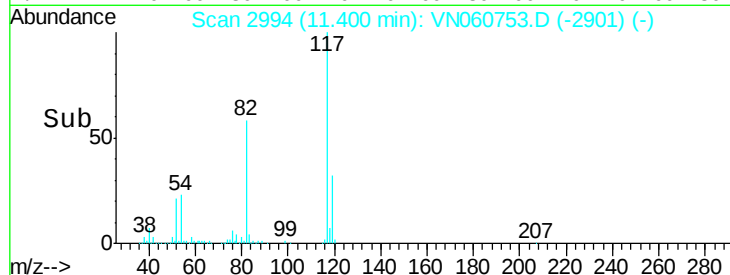
Tgt Ion:117 Resp: 307238
Ion Ratio Lower Upper
117 100
82 58.0 46.7 70.1
119 31.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

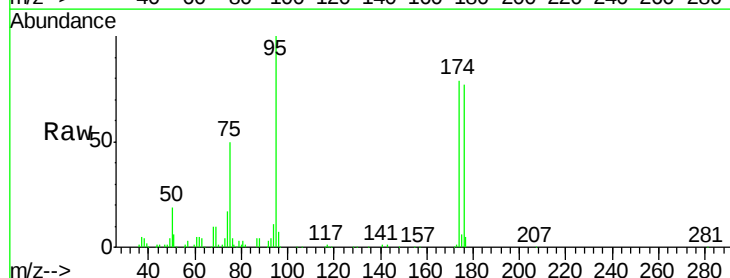


Time--> 11.30 11.40 11.50

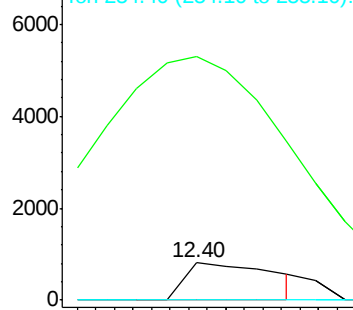


#71
Bromoform
Concen: 1.964 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060753.D
Acq: 27 Mar 2020 19:53

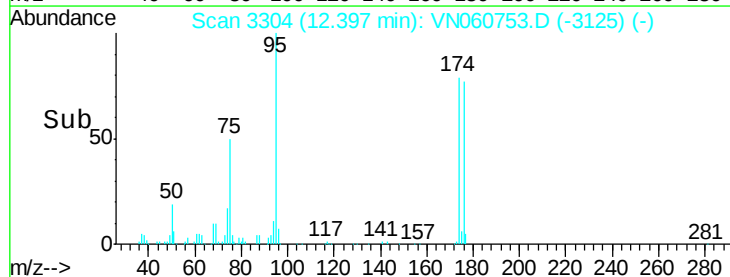
Tgt Ion:173 Resp: 538
Ion Ratio Lower Upper
173 100
175 1404.6 24.1 72.4#
254 0.0 0.0 0.0

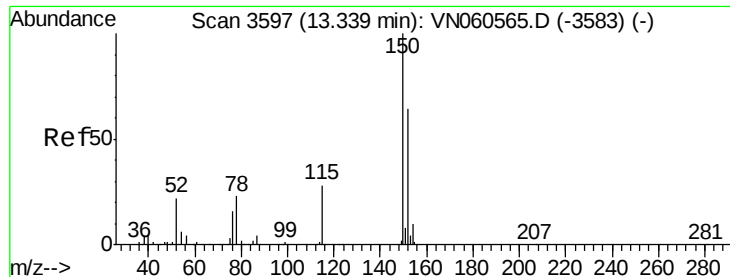


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



Time--> 12.39 12.40 12.41





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Instrument :

MSVOA_N

ClientSampleId :

RO-06

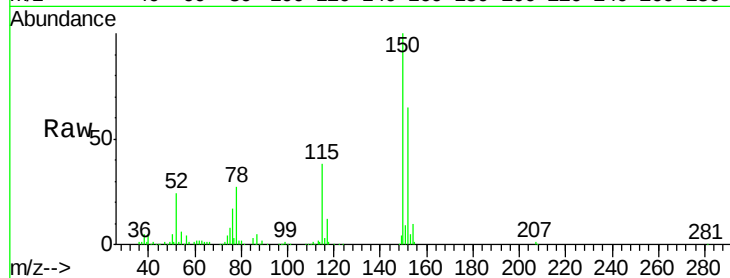
Tgt Ion:152 Resp: 142151

Ion Ratio Lower Upper

152 100

115 58.6 30.2 90.6

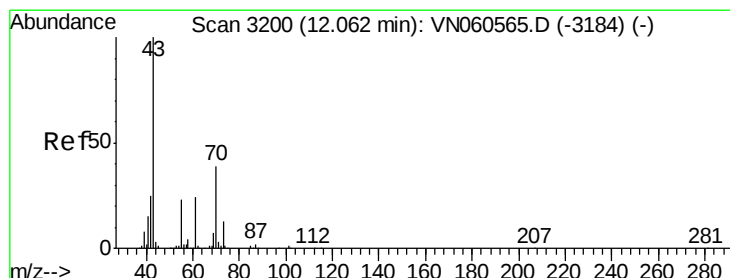
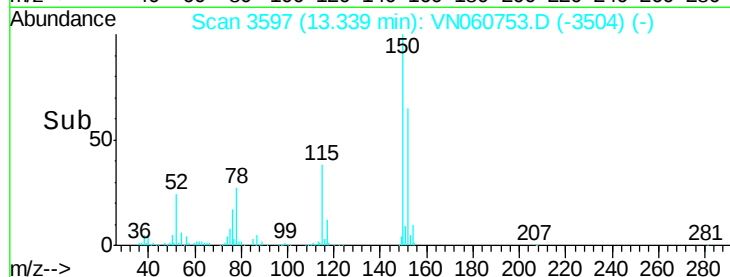
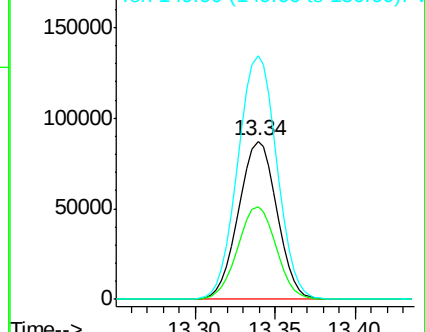
150 157.0 0.0 350.2



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



#74

N-ethyl acetate

Concen: 0.714 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Tgt Ion: 43 Resp: 3520

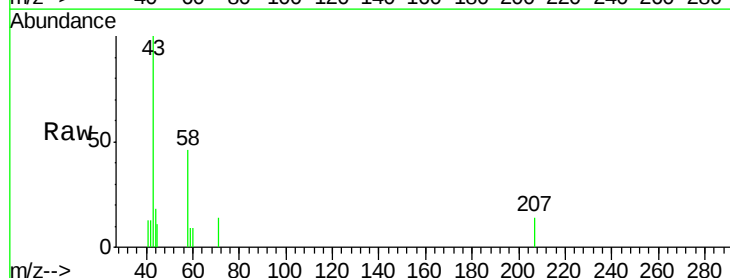
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

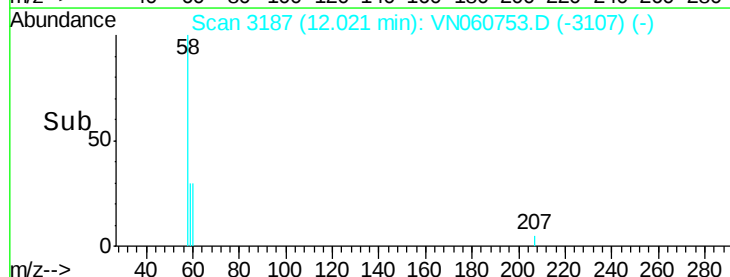
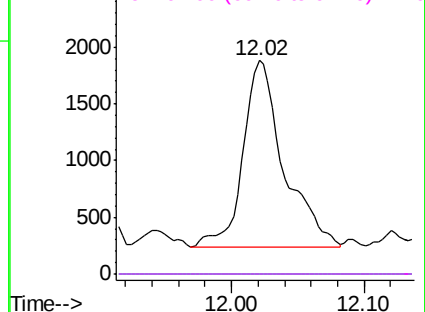


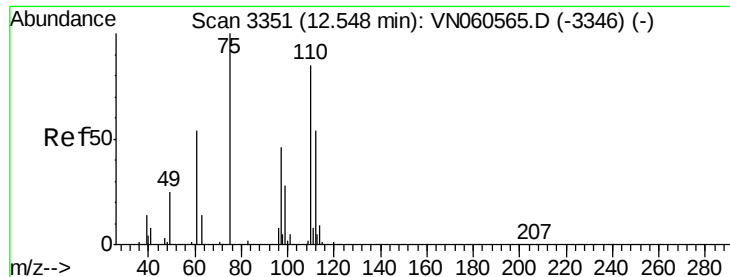
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.882 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Instrument :

MSVOA_N

ClientSampled :

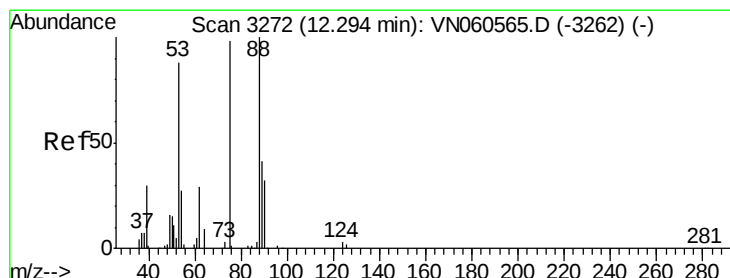
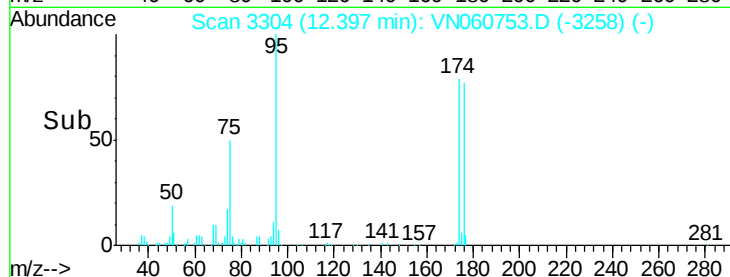
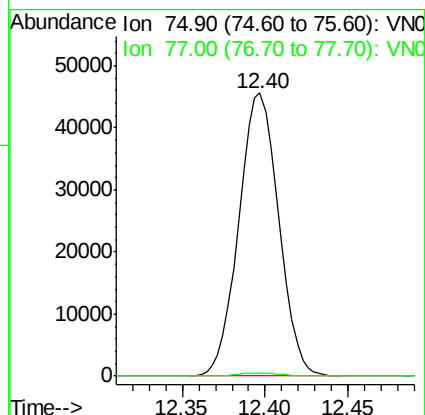
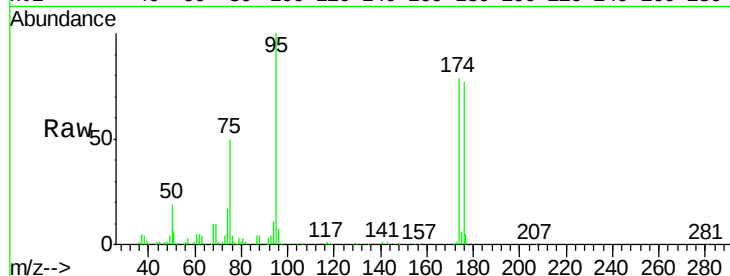
RO-06

Tgt Ion: 75 Resp: 76322

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.905 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

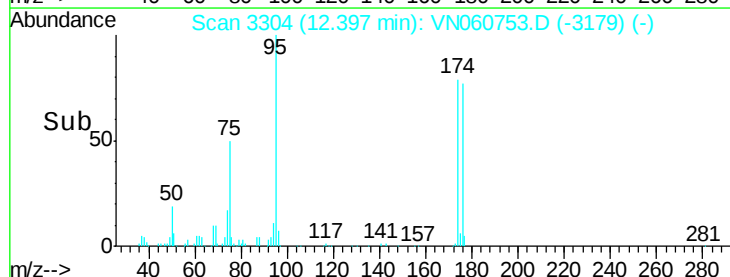
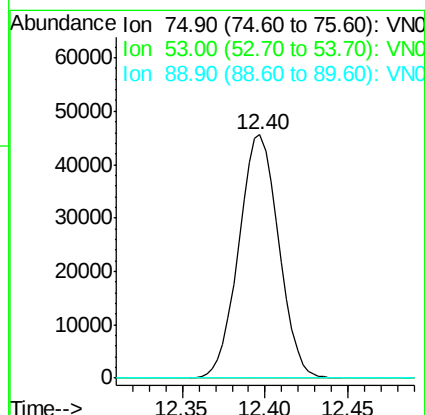
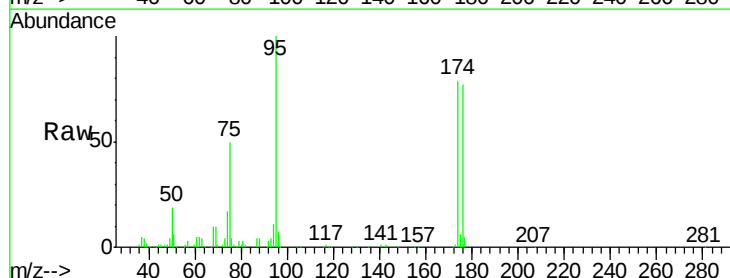
Tgt Ion: 75 Resp: 76322

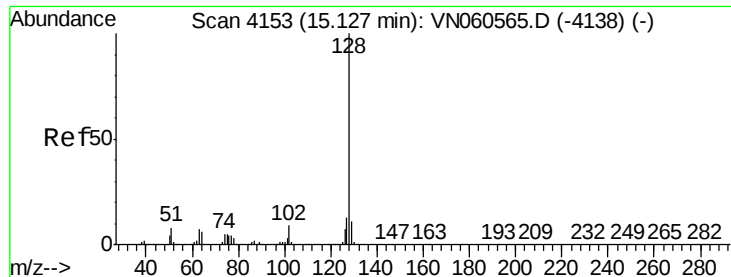
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#95

Naphthalene

Concen: 0.223 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060753.D

Acq: 27 Mar 2020 19:53

Instrument :

MSVOA_N

ClientSampleId :

RO-06

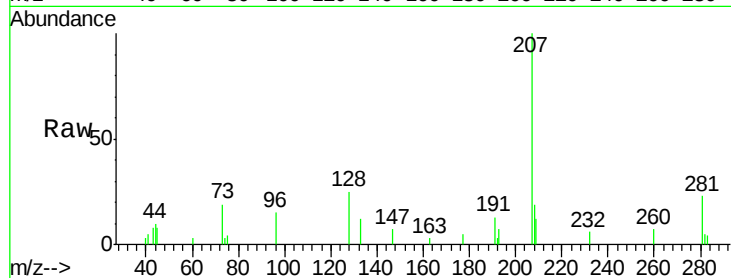
Tgt Ion:128 Resp: 1786

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 1.7 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

