

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061511.D
 Acq On : 20 May 2020 19:24
 Operator : JC/MD
 Sample : PB129002TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

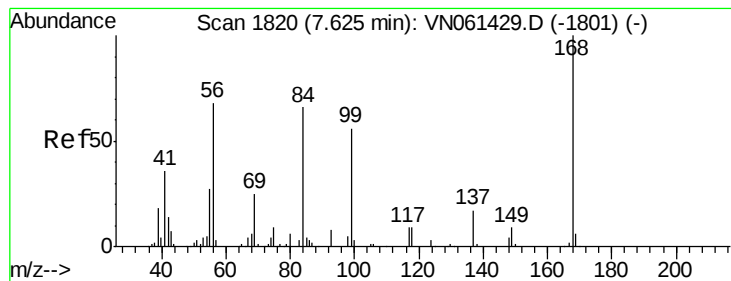
Quant Time: May 21 01:14:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	289296	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	529778	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	533709	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	237998	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	197732	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
35) Dibromofluoromethane	7.55	113	136871	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
50) Toluene-d8	10.06	98	668401	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	
62) 4-Bromofluorobenzene	12.38	95	259495	53.96	ug/l	0.00
Spiked Amount			Recovery	=	107.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	278	Below Cal	#	13
16) Acetone	3.78	43	10555	Below Cal		98
17) Carbon Disulfide	4.01	76	237	Below Cal	#	75
18) Methyl Acetate	4.28	43	1596	Below Cal	#	70
20) Methylene Chloride	4.50	84	11261	3.174	ug/l	93
31) Cyclohexane	7.63	56	6290	Below Cal	#	5
36) 1,1-Dichloropropene	7.62	75	22877	4.618	ug/l #	50
38) Carbon Tetrachloride	7.63	117	30551	6.698	ug/l #	16
43) Isopropyl Acetate	8.13	43	80994	10.337	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1817	0.486	ug/l #	43
48) Methyl methacrylate	9.15	41	4334	1.197	ug/l #	9
49) 1,4-Dioxane	9.24	88	66	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.95	43	6360	1.490	ug/l	94
54) cis-1,3-Dichloropropene	9.88	75	42397	6.593	ug/l #	57
56) Ethyl methacrylate	10.52	69	1154	0.204	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	7368	1.177	ug/l #	42
59) 2-Hexanone	10.74	43	83483	27.034	ug/l #	50
71) Bromoform	12.38	173	1528	2.503	ug/l #	1
74) N-amyl acetate	12.00	43	2213	0.316	ug/l #	41
76) 1,2,3-Trichloropropane	12.37	75	131608	25.771	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3780	0.242	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.37	75	131608	68.364	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.45	75	371	0.349	ug/l #	25

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

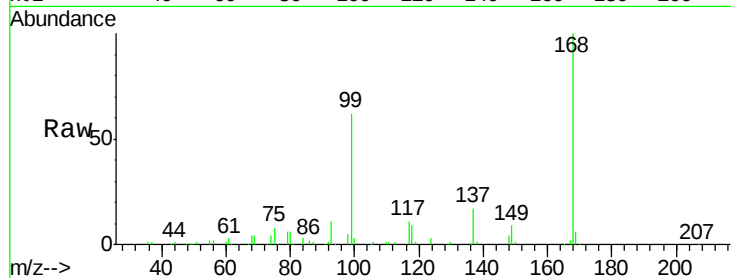
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 289296

Ion Ratio Lower Upper

168 100

99 62.2 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

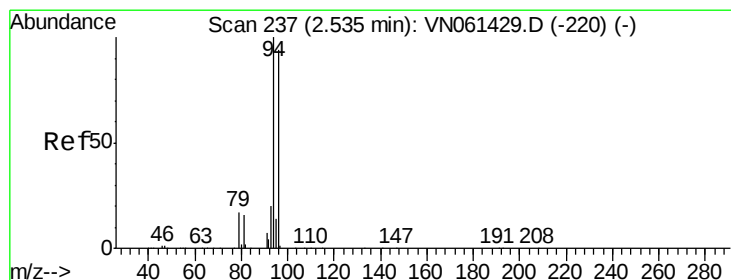
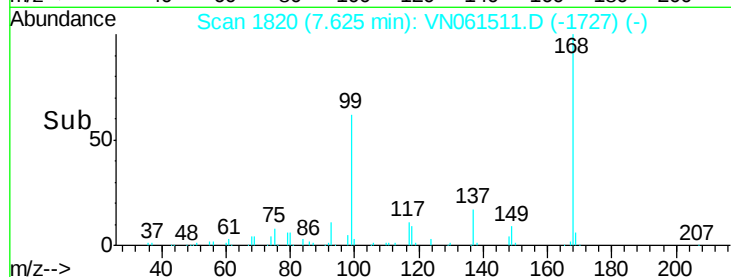
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN061511.D

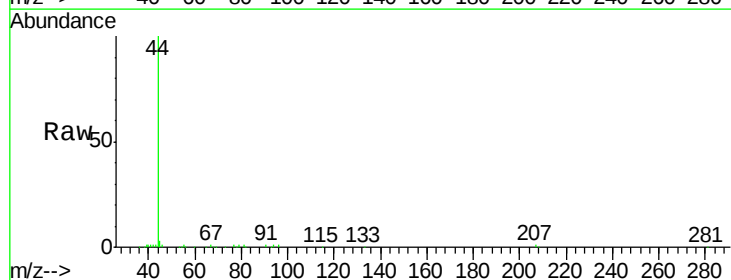
Acq: 20 May 2020 19:24

Tgt Ion: 94 Resp: 278

Ion Ratio Lower Upper

94 100

96 10.2 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

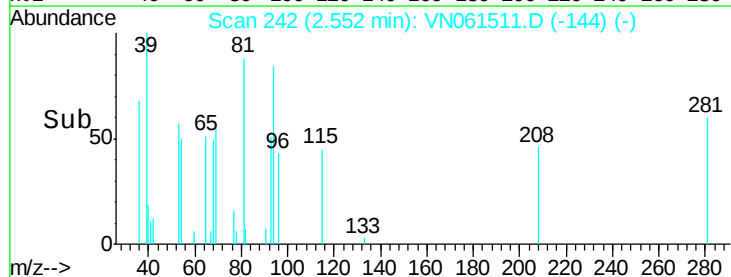
300

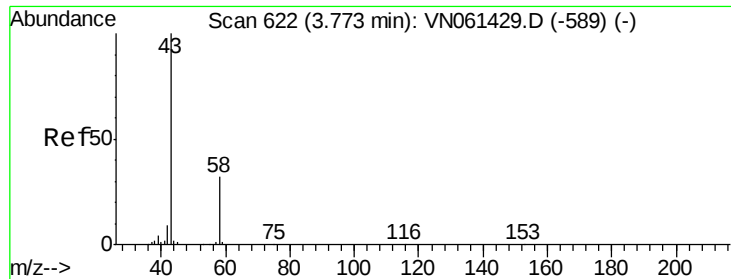
200

100

0

Time--> 2.53 2.54 2.55 2.56





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

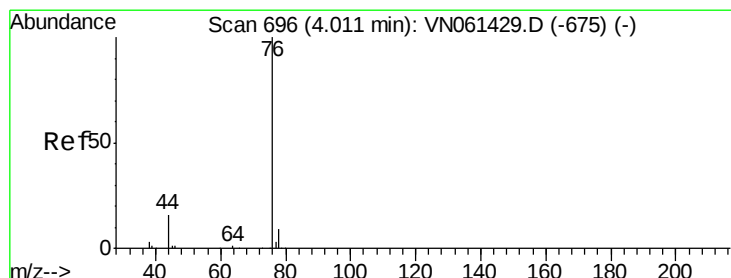
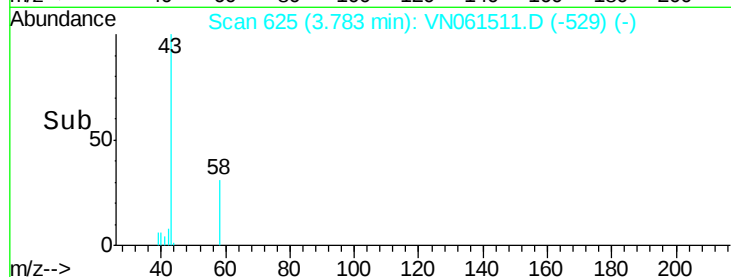
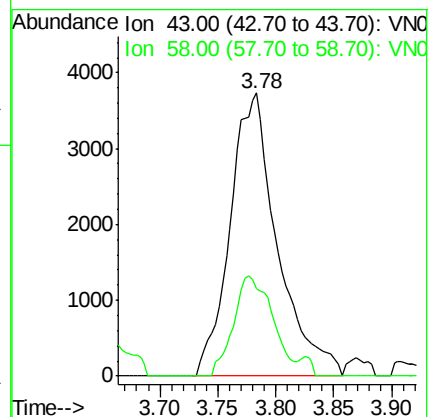
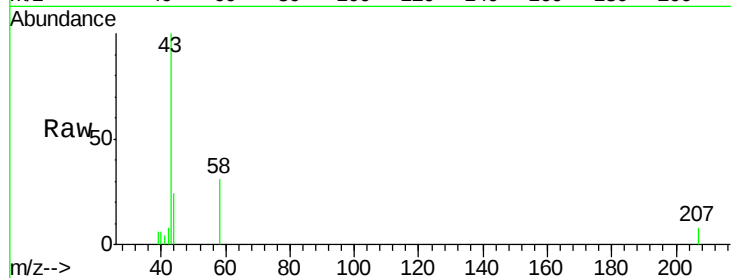
ClientSampleId :

Tot Ion: 43 Resp: 10555

Ion Ratio Lower Upper

43 100

58 31.0 25.6 38.4



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 697

Delta R.T. 0.00 min

Lab File: VN061511.D

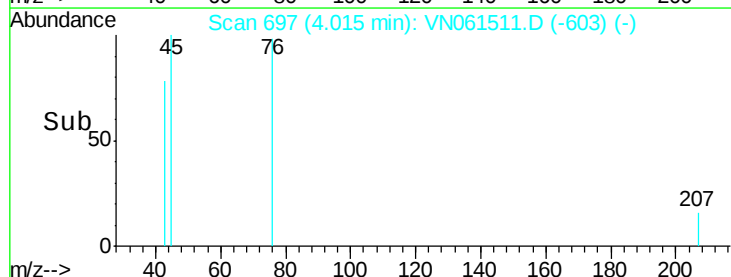
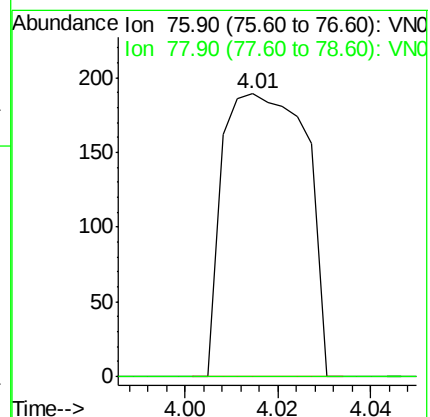
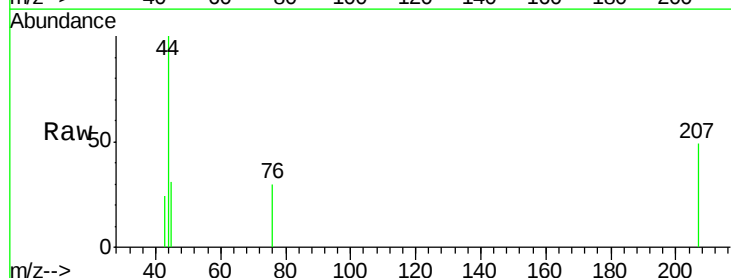
Acq: 20 May 2020 19:24

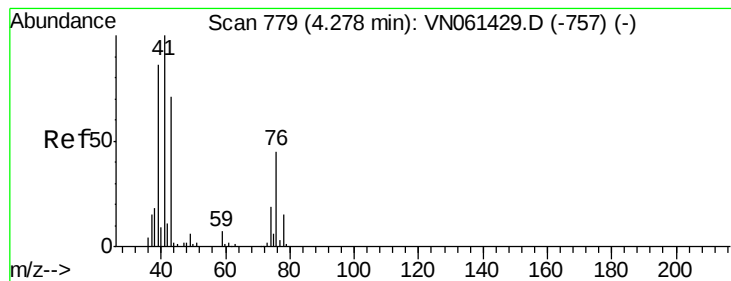
Tgt Ion: 76 Resp: 237

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 780

Delta R.T. 0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

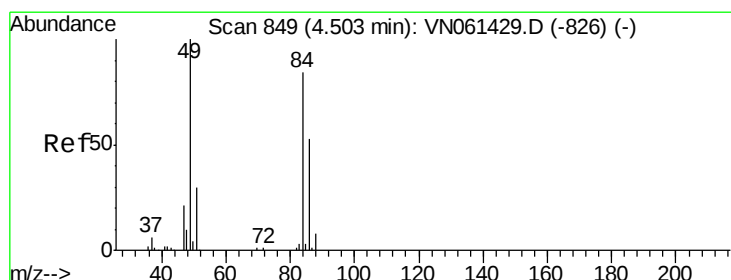
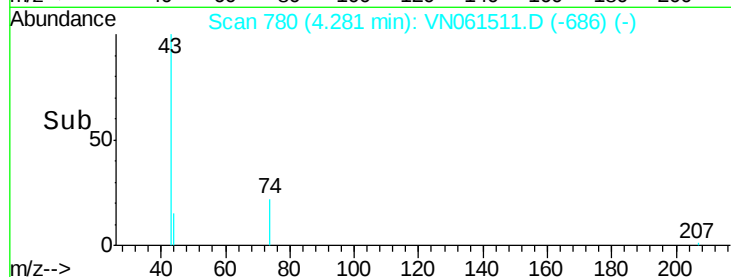
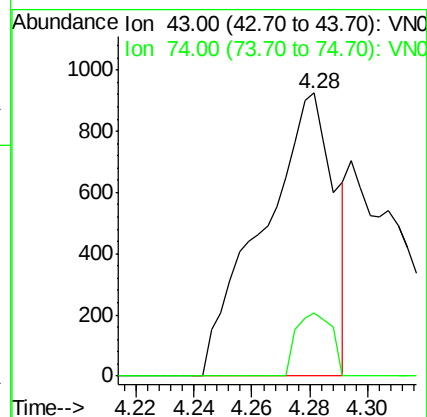
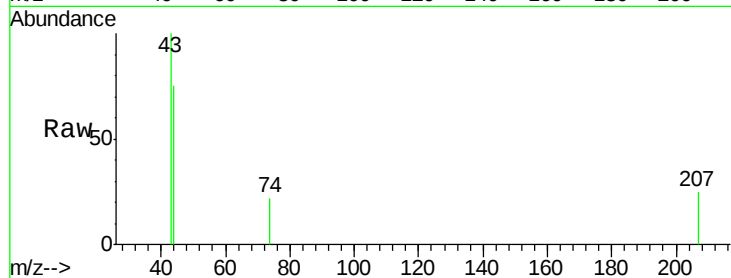
ClientSampled :

Tot Ion: 43 Resp: 1596

Ion Ratio Lower Upper

43 100

74 10.8 20.8 31.2#



#20

Methylene Chloride

Concen: 3.174 ug/l

RT: 4.50 min Scan# 848

Delta R.T. -0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Tgt Ion: 84 Resp: 11261

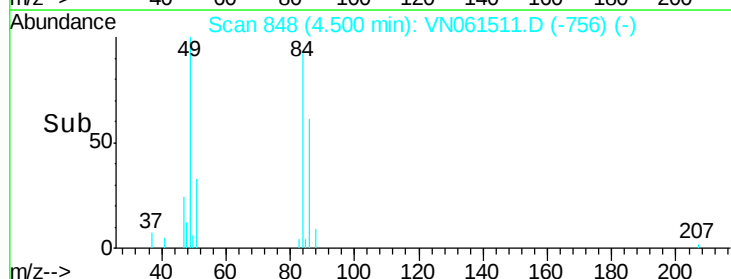
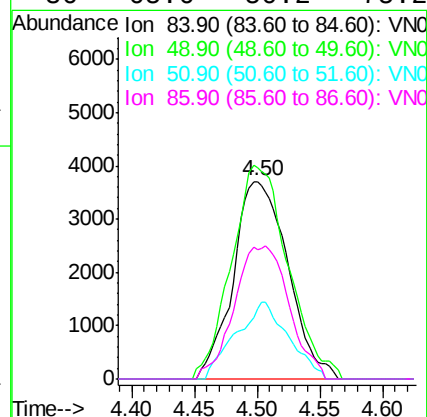
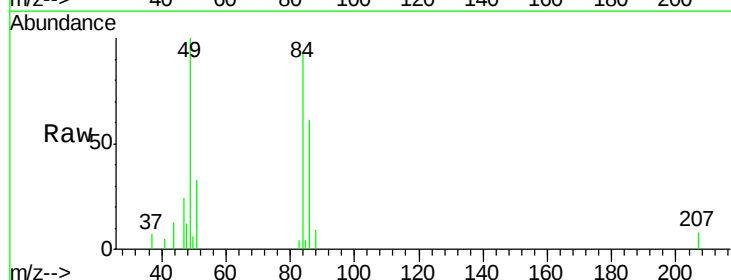
Ion Ratio Lower Upper

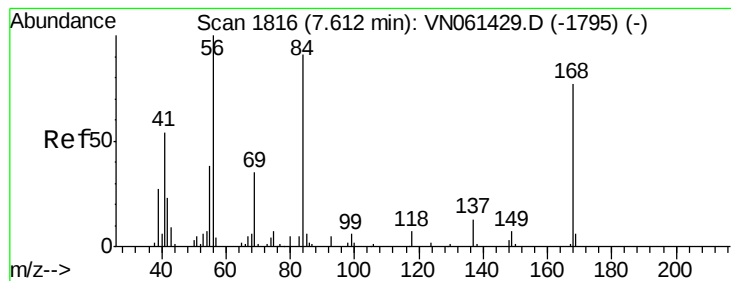
84 100

49 107.0 95.3 142.9

51 35.6 29.0 43.6

86 65.6 50.2 75.2





#31

Cvclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :
MSVOA_N
ClientSampled :

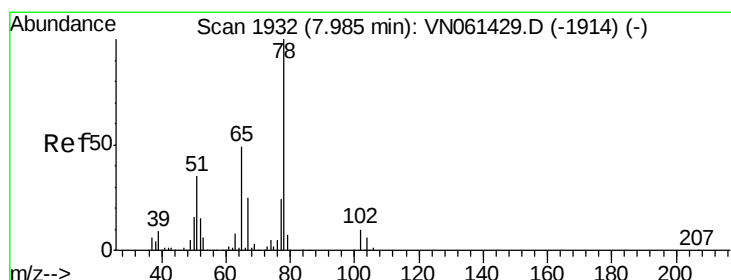
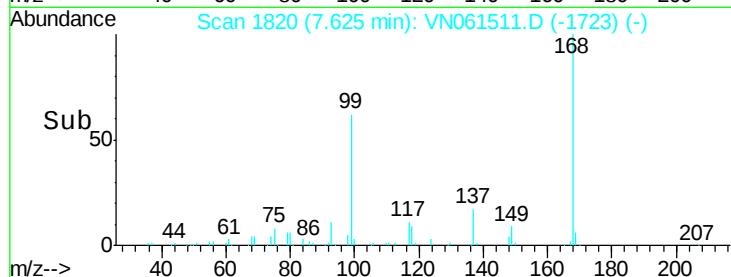
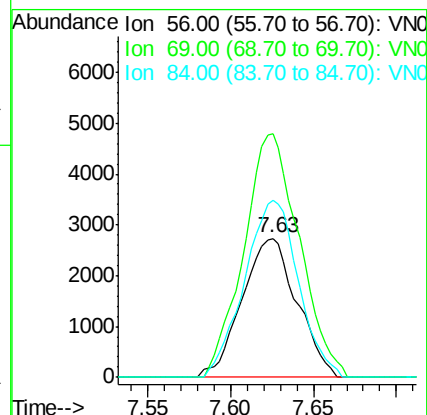
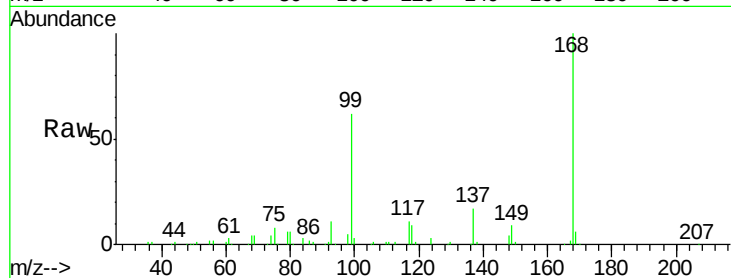
Tot Ion: 56 Resp: 6290

Ion Ratio Lower Upper

56 100

69 174.9 27.8 41.6#

84 127.2 72.7 109.1#



#33

1,2-Dichloroethane-d4

Concen: 45.797 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061511.D

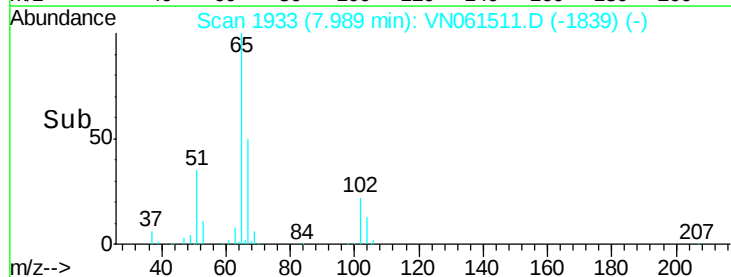
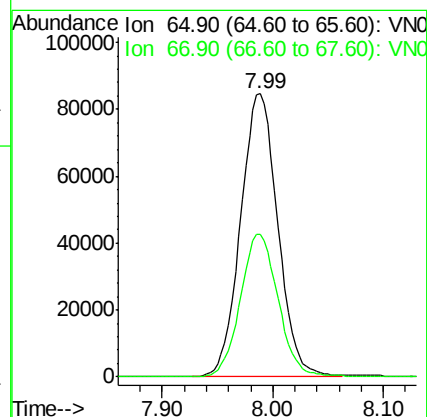
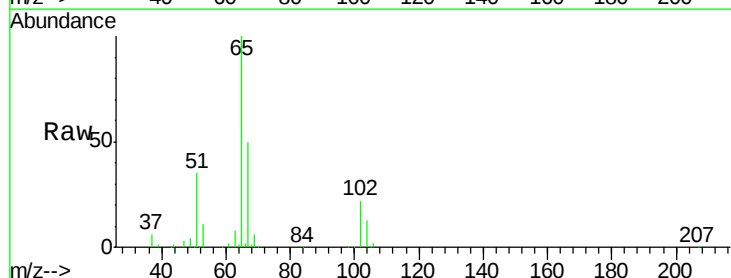
Acq: 20 May 2020 19:24

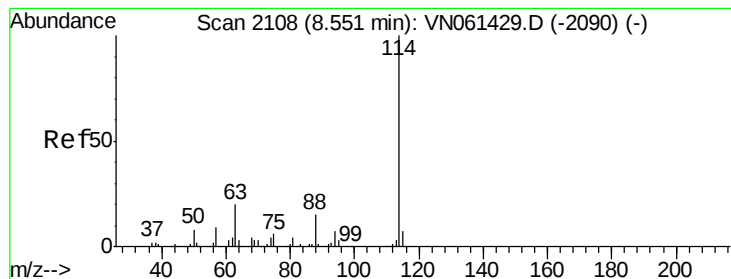
Tgt Ion: 65 Resp: 197732

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

ClientSampleId :

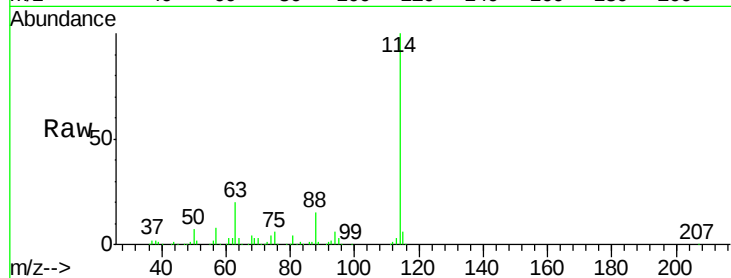
Tot Ion:114 Resp: 529778

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

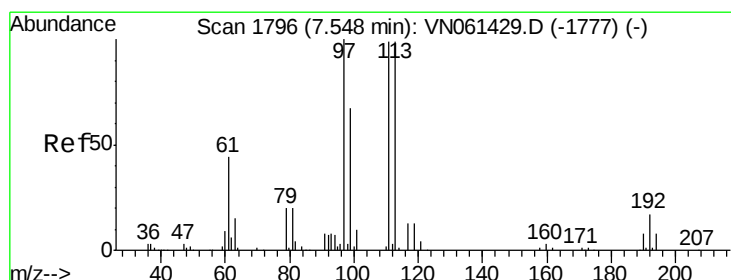
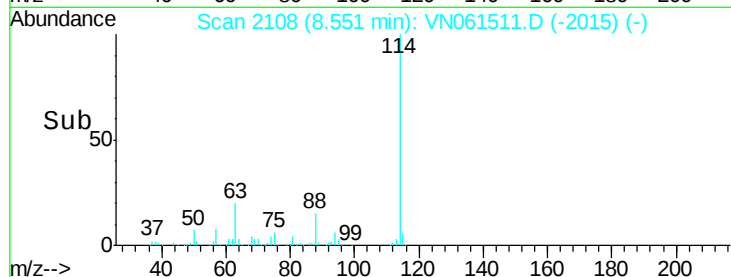
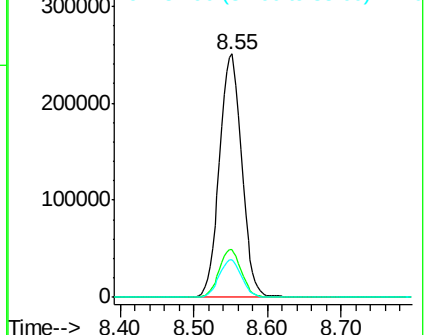
88 15.4 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.316 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

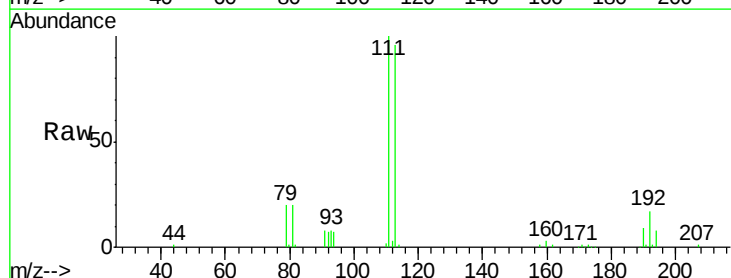
Tgt Ion:113 Resp: 136871

Ion Ratio Lower Upper

113 100

111 104.7 80.6 121.0

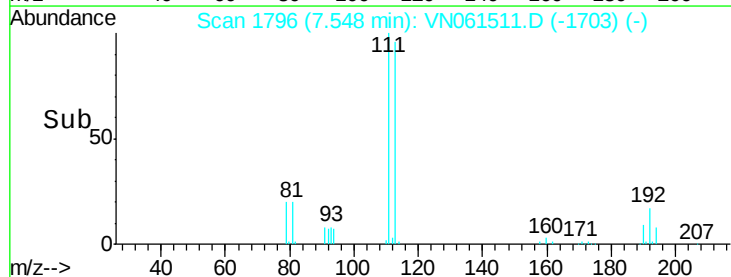
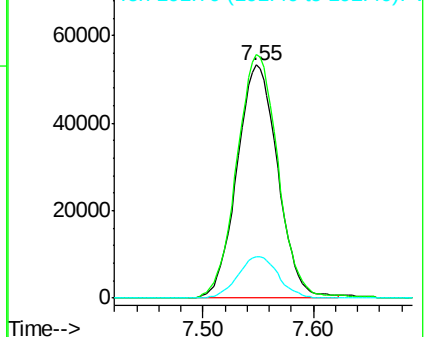
192 17.8 13.2 19.8

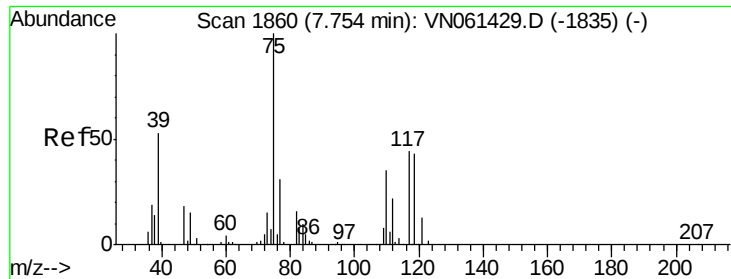


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

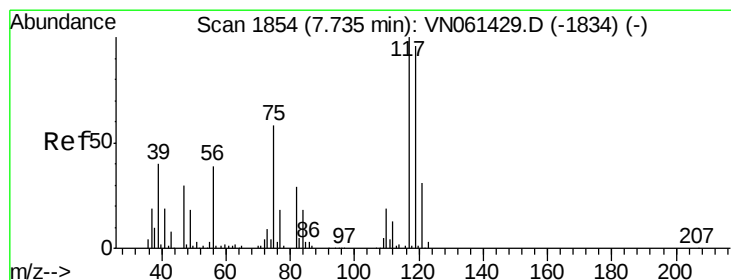
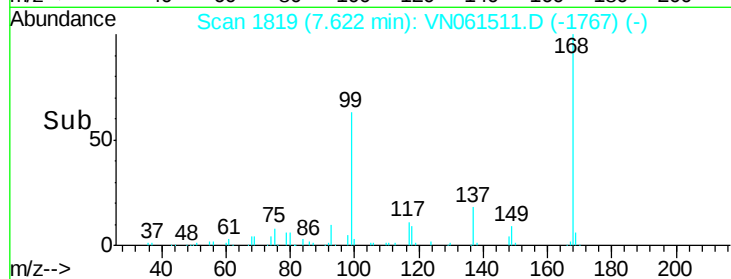
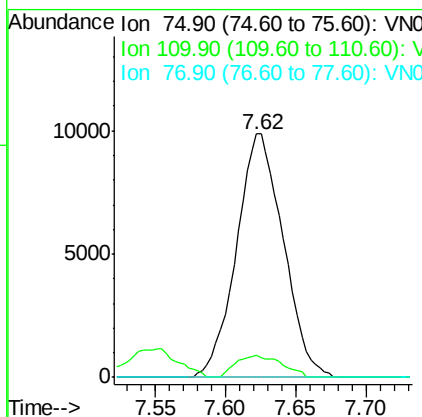
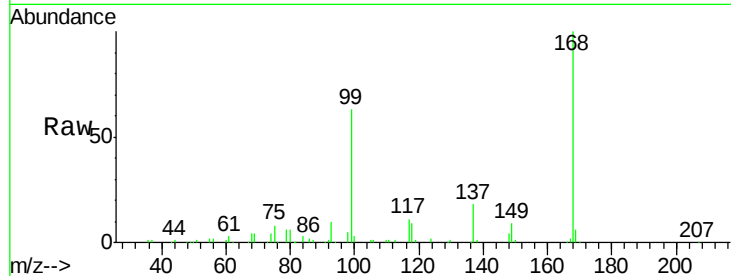




#36
 1,1-Dichloropropene
 Concen: 4.618 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061511.D
 Acq: 20 May 2020 19:24

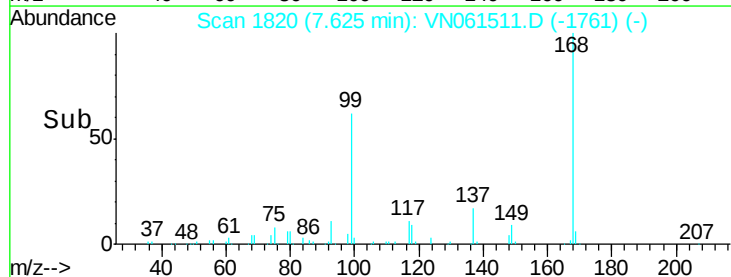
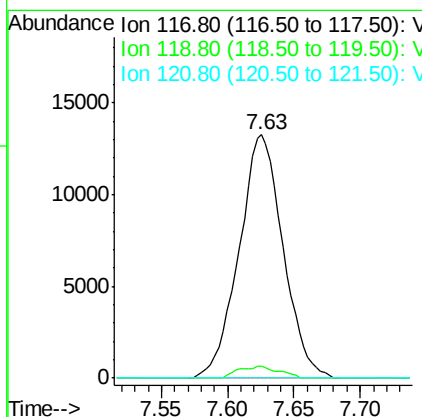
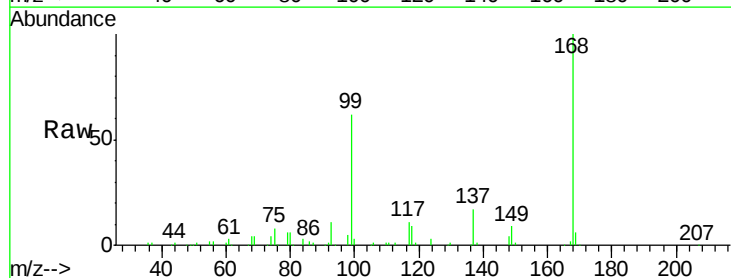
Instrument :
 MSVOA_N
 ClientSampled :

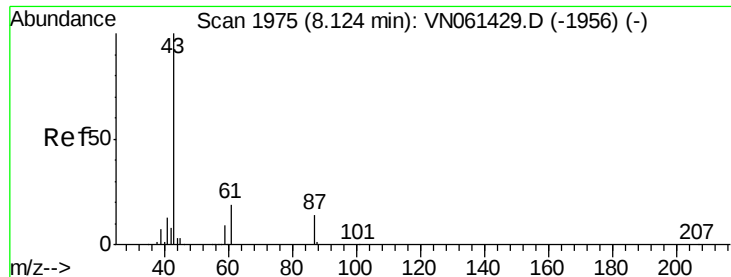
Tot Ion	75	Resp	22877
Ion Ratio	Lower	Upper	
75	100		
110	8.8	17.3	51.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.698 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061511.D
 Acq: 20 May 2020 19:24

Tgt Ion	117	Resp	30551
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.9	77.0	115.6#
121	0.0	24.7	37.1#

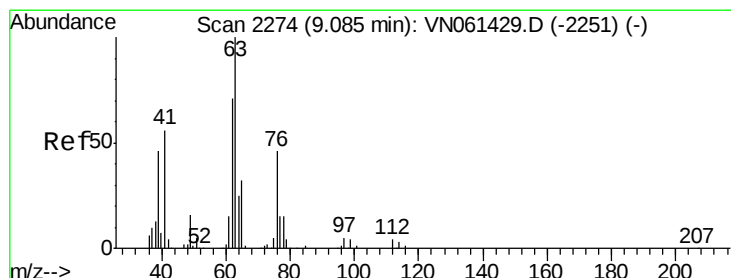
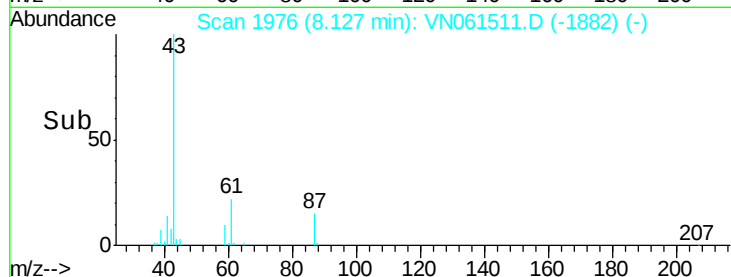
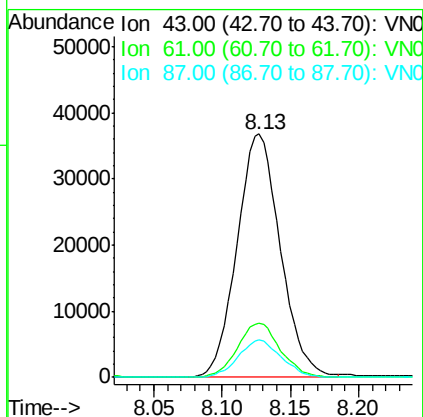
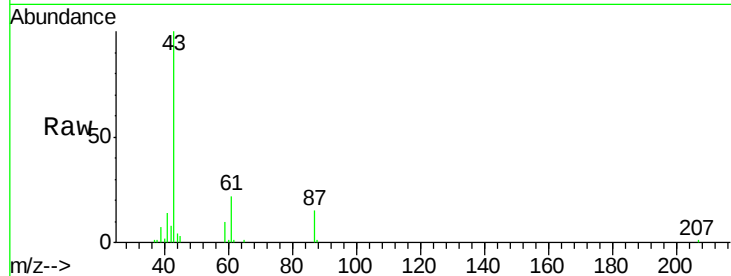




#43
Isopropyl Acetate
Concen: 10.337 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

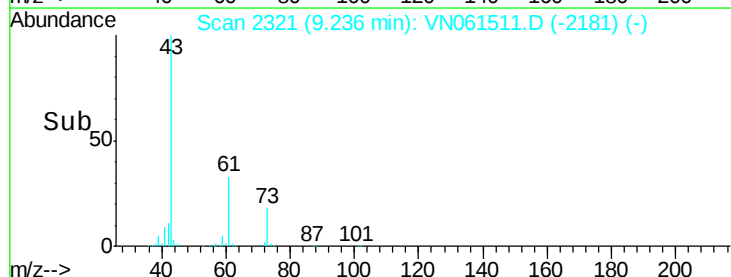
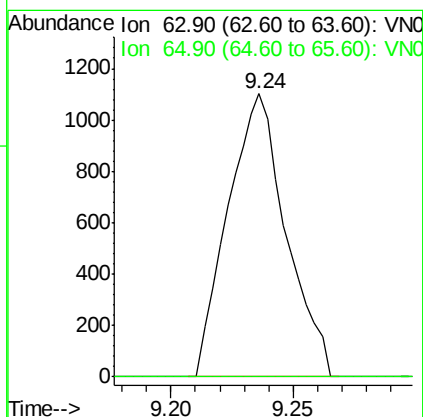
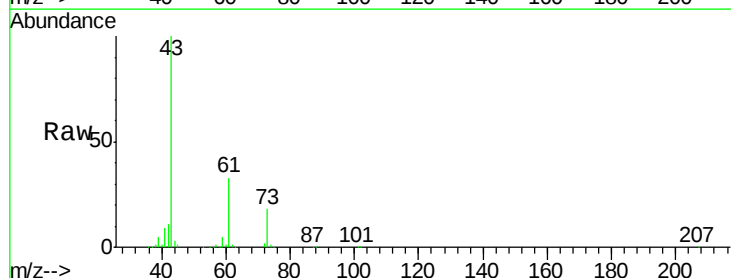
Instrument :
MSVOA_N
ClientSampleId :

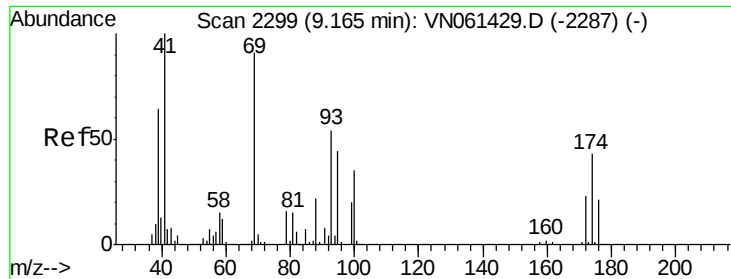
Tot Ion: 43 Resp: 80994
Ion Ratio Lower Upper
43 100
61 21.9 23.0 34.4#
87 15.1 11.6 17.4



#45
1,2-Dichloropropane
Concen: 0.486 ug/l
RT: 9.24 min Scan# 2321
Delta R.T. 0.15 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

Tgt Ion: 63 Resp: 1817
Ion Ratio Lower Upper
63 100
65 0.0 25.2 37.8#

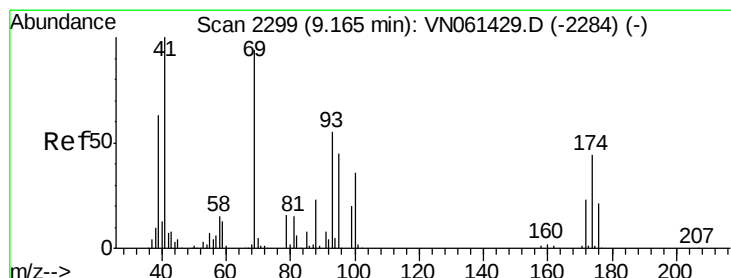
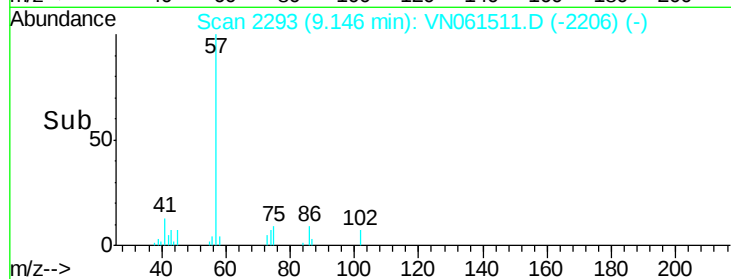
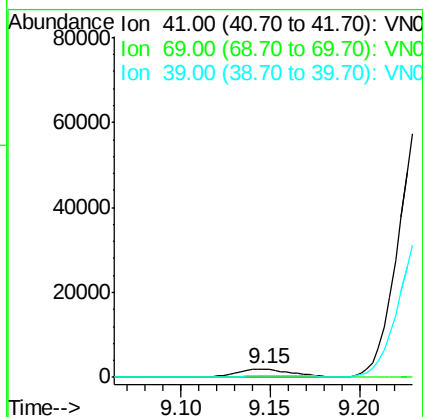
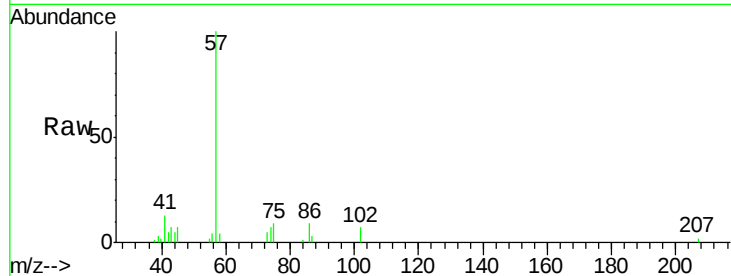




#48
Methvl methacrylate
Concen: 1.197 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

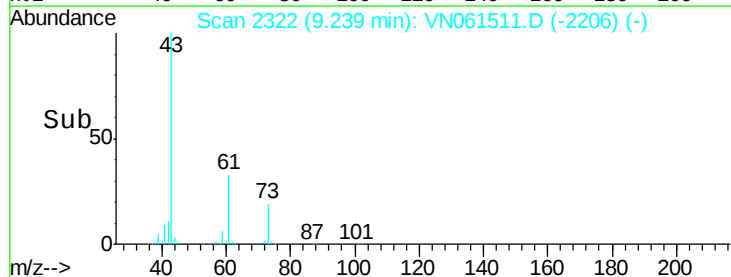
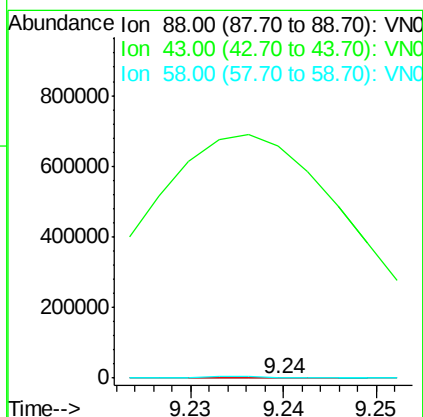
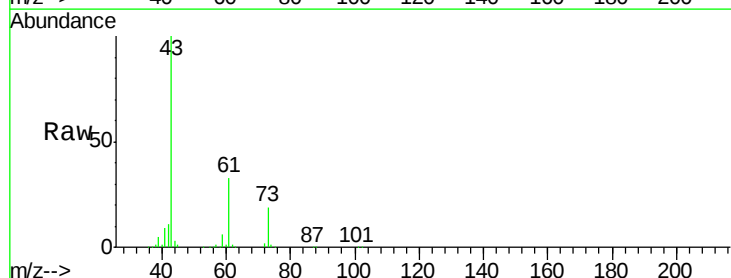
Instrument :
MSVOA_N
ClientSampleId :

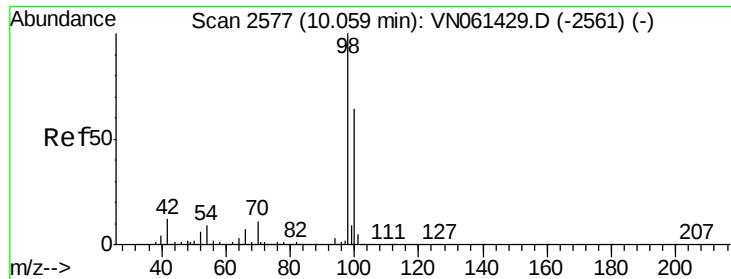
Tot Ion: 41 Resp: 4334
Ion Ratio Lower Upper
41 100
69 0.0 75.3 112.9#
39 0.0 52.6 79.0#



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.24 min Scan# 2322
Delta R.T. 0.07 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 1930907.6 26.3 39.5#
58 8527.3 54.1 81.1#





#50

Toluene-d8

Concen: 51.924 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

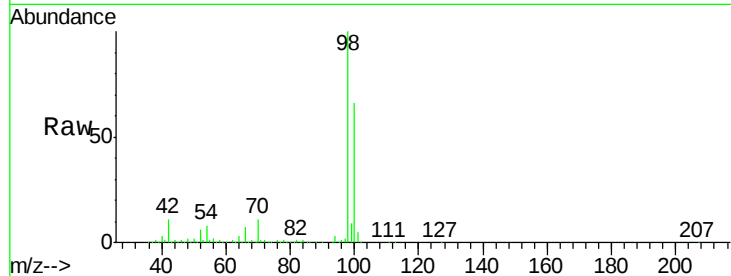
ClientSampled :

Tot Ion: 98 Resp: 668401

Ion Ratio Lower Upper

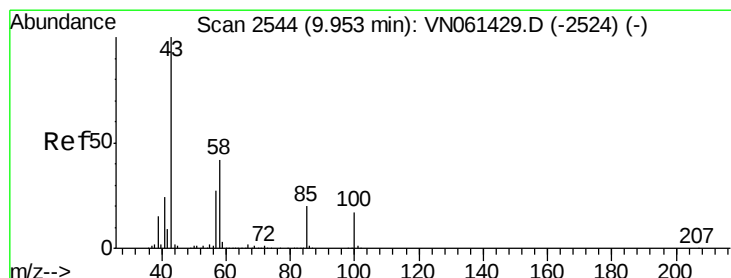
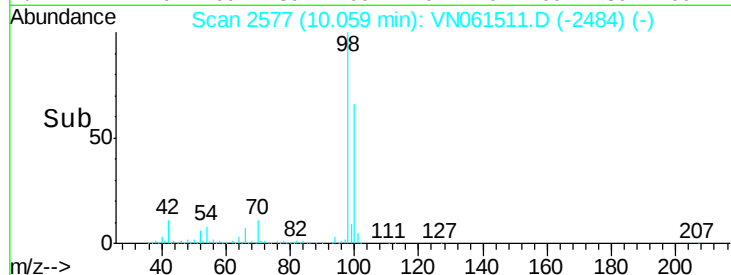
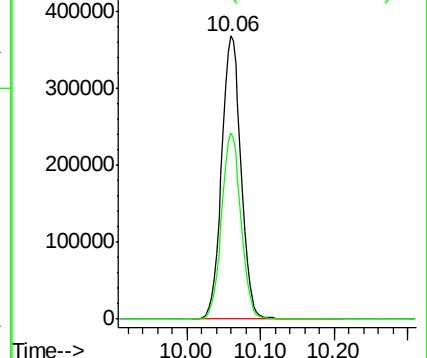
98 100

100 65.7 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.490 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061511.D

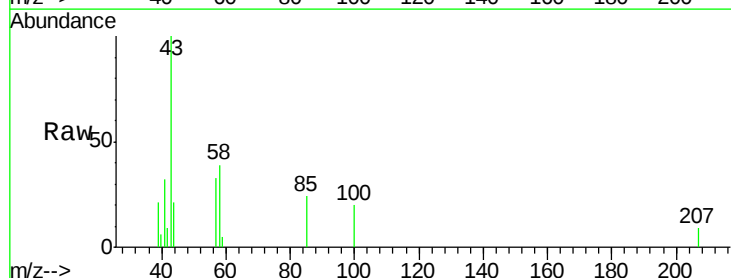
Acq: 20 May 2020 19:24

Tgt Ion: 43 Resp: 6360

Ion Ratio Lower Upper

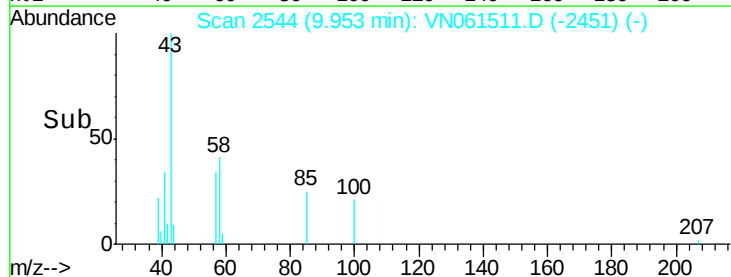
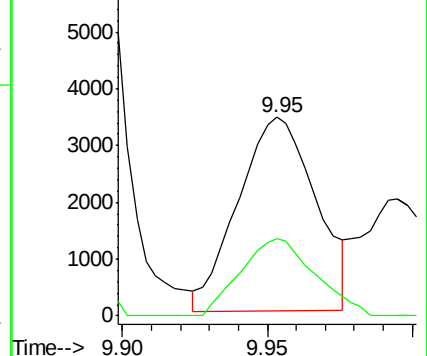
43 100

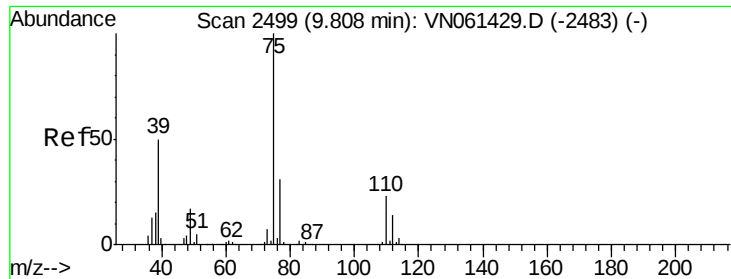
58 38.3 33.4 50.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

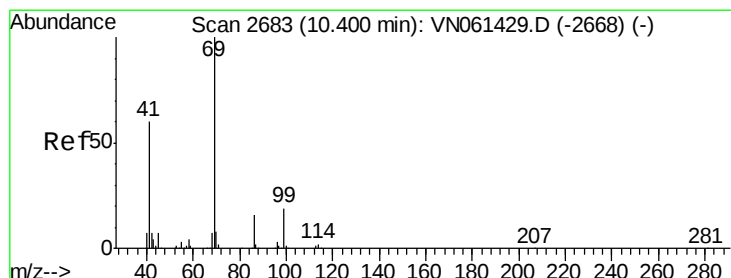
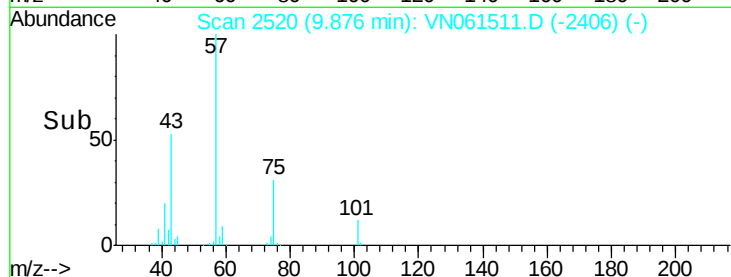
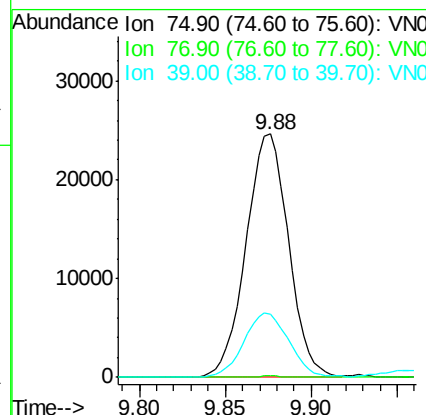
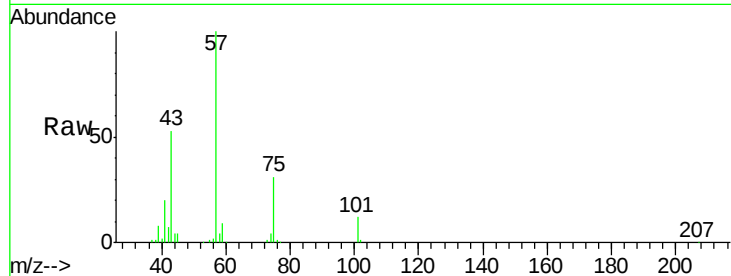




#54
 cis-1,3-Dichloropropene
 Concen: 6.593 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061511.D
 Acq: 20 May 2020 19:24

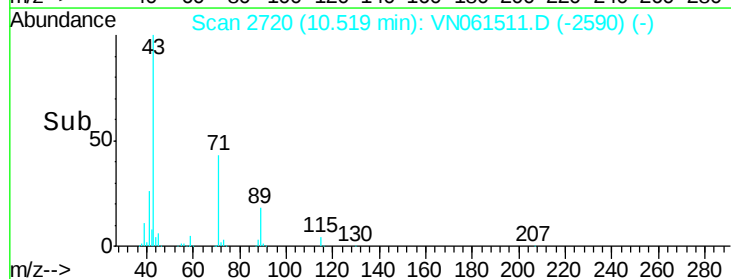
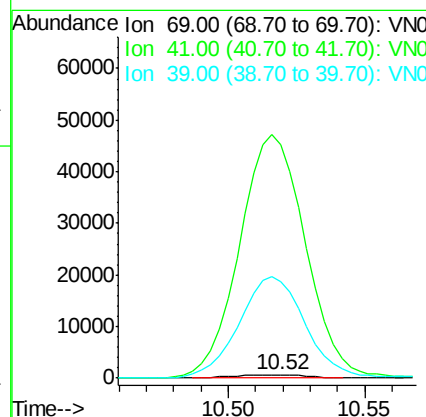
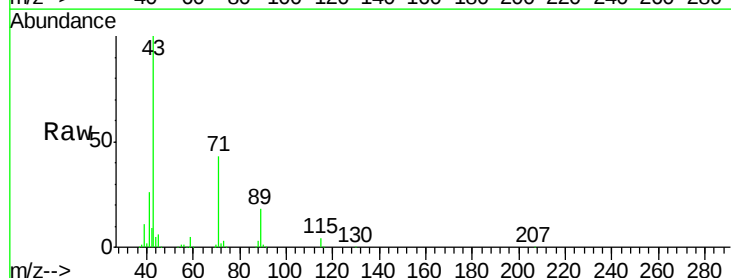
Instrument :
 MSVOA_N
 ClientSampleId :

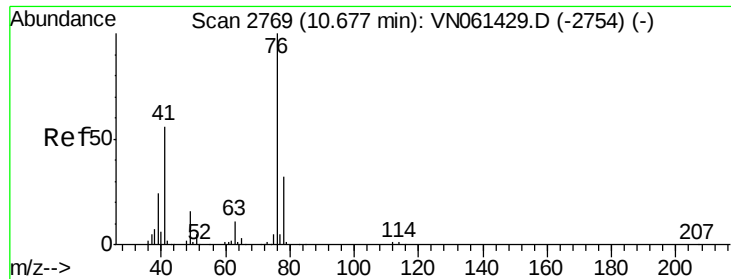
Tot Ion: 75 Resp: 42397
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.8 37.2#
 39 25.8 39.8 59.6#



#56
 Ethyl methacrylate
 Concen: 0.204 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN061511.D
 Acq: 20 May 2020 19:24

Tgt Ion: 69 Resp: 1154
 Ion Ratio Lower Upper
 69 100
 41 6889.6 48.3 72.5#
 39 2869.7 30.2 45.2#





#57

1,3-Dichloropropane

Concen: 1.177 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

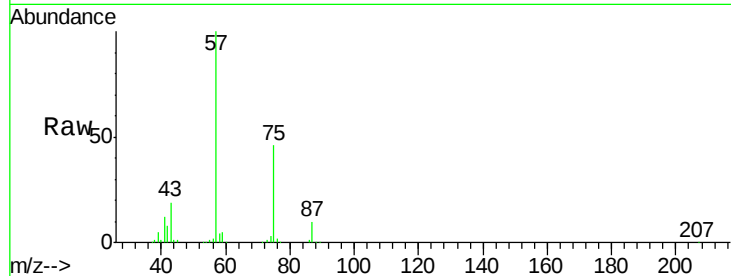
ClientSampled :

Tot Ion: 76 Resp: 7368

Ion Ratio Lower Upper

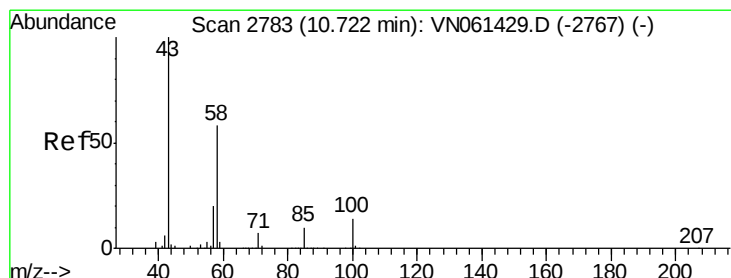
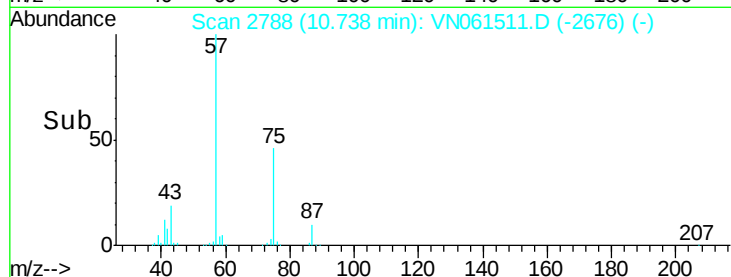
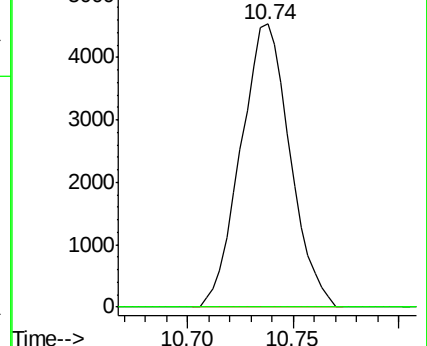
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 27.034 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061511.D

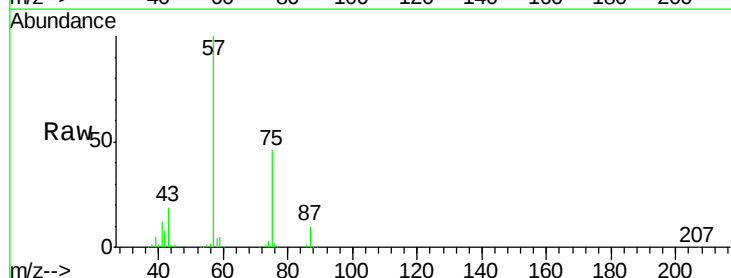
Acq: 20 May 2020 19:24

Tgt Ion: 43 Resp: 83483

Ion Ratio Lower Upper

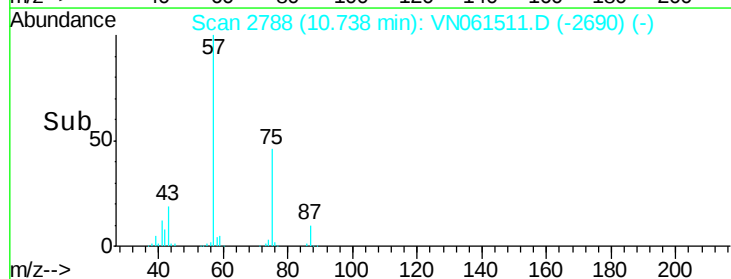
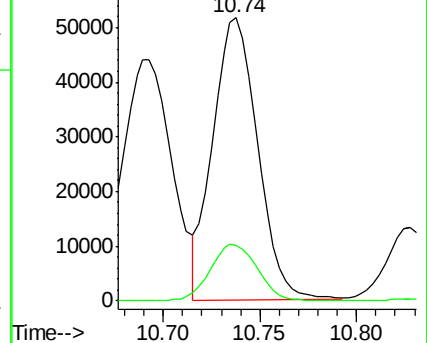
43 100

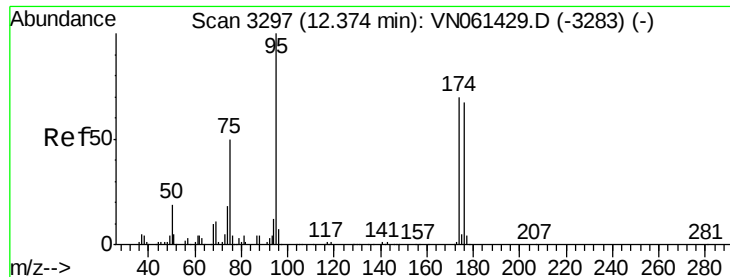
58 21.1 29.2 87.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

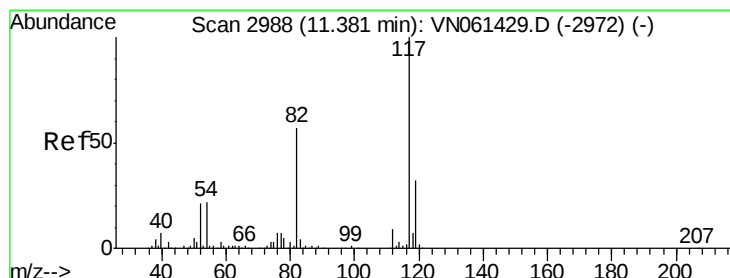
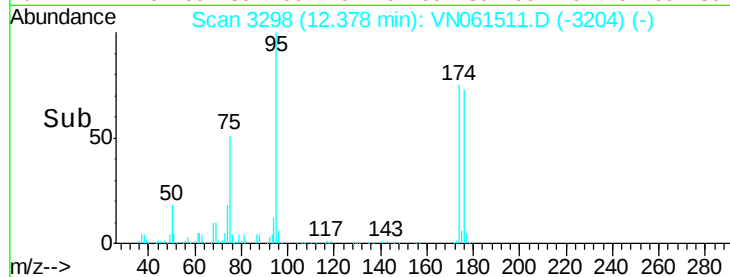
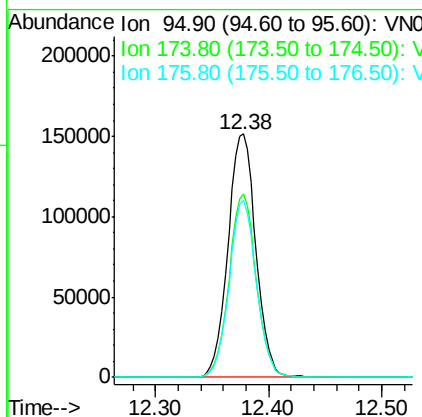
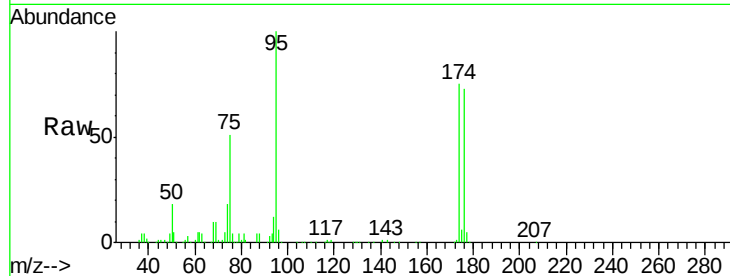




#62
4-Bromofluorobenzene
Concen: 53.956 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

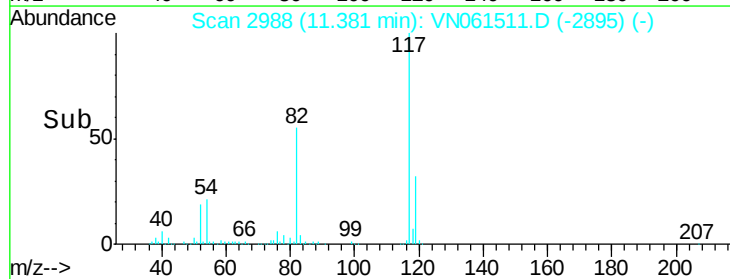
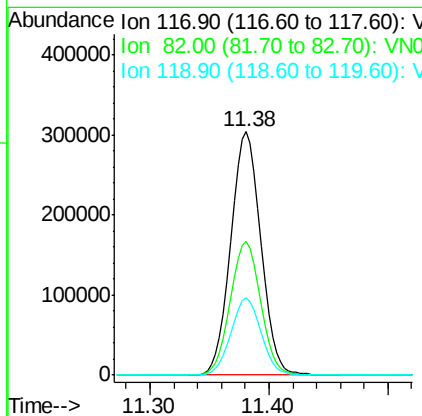
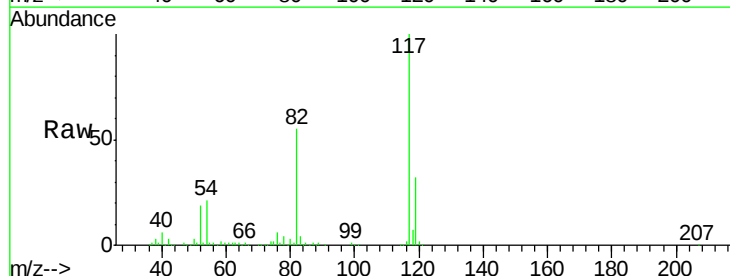
Instrument :
MSVOA_N
ClientSampled :

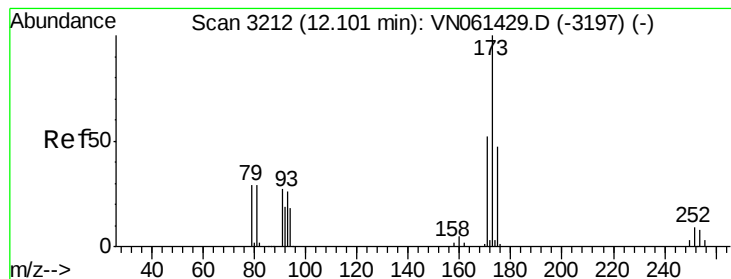
Tot Ion	95	Resp	259495
Ion Ratio	Lower	Upper	
95	100		
174	73.7	0.0	141.2
176	71.0	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

Tgt Ion	117	Resp	533709
Ion Ratio	Lower	Upper	
117	100		
82	55.0	45.2	67.8
119	31.7	25.3	37.9





#71

Bromoform

Concen: 2.503 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

ClientSampled :

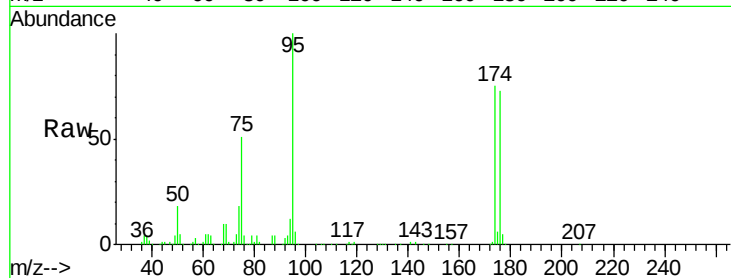
Tot Ion:173 Resp: 1528

Ion Ratio Lower Upper

173 100

175 793.9 23.9 71.8#

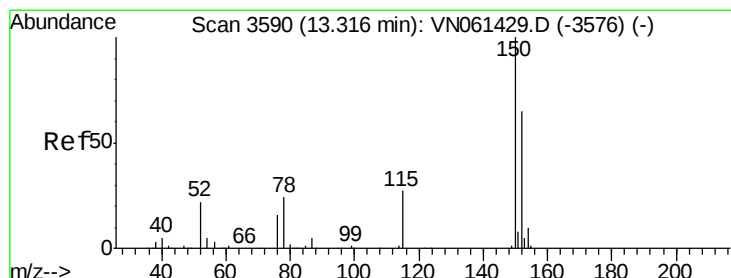
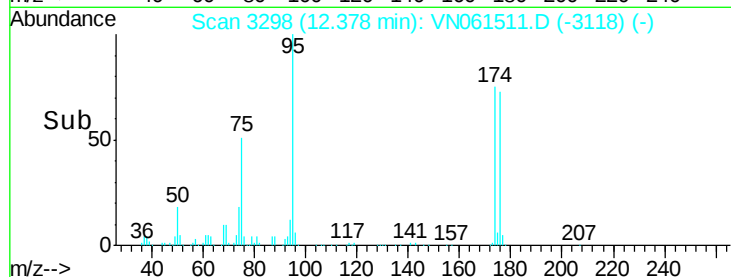
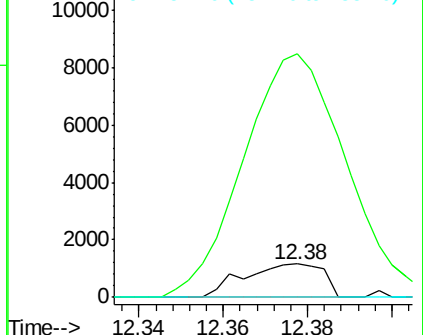
254 0.0 0.0 0.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

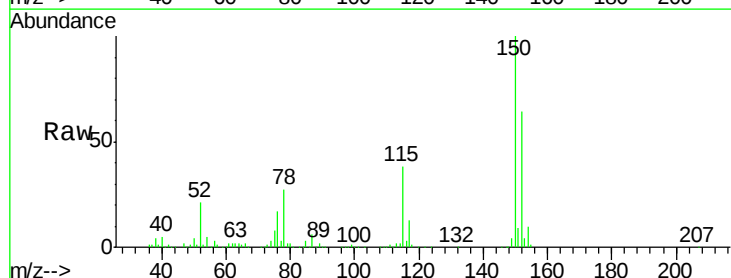
Tgt Ion:152 Resp: 237998

Ion Ratio Lower Upper

152 100

115 61.2 30.9 92.5

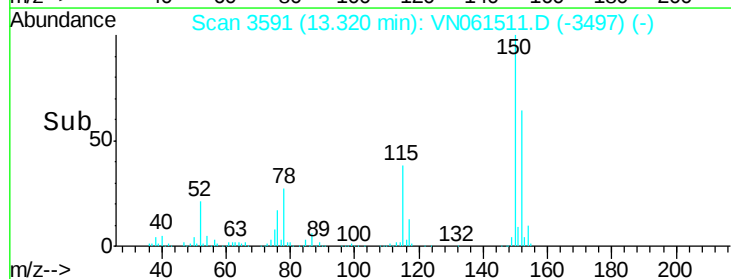
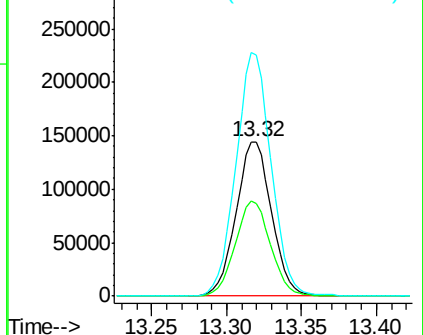
150 157.2 0.0 349.2

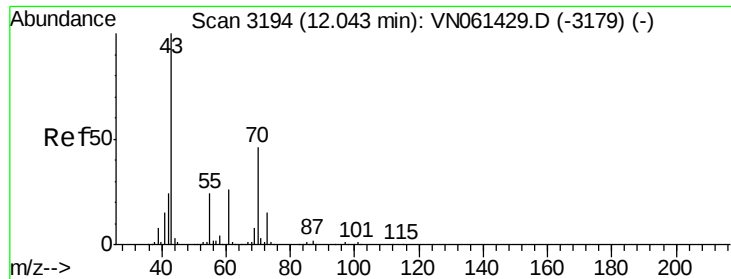


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

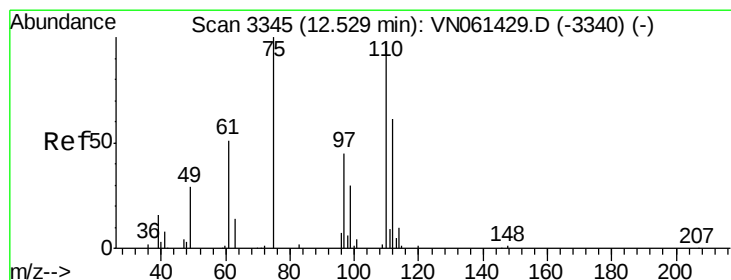
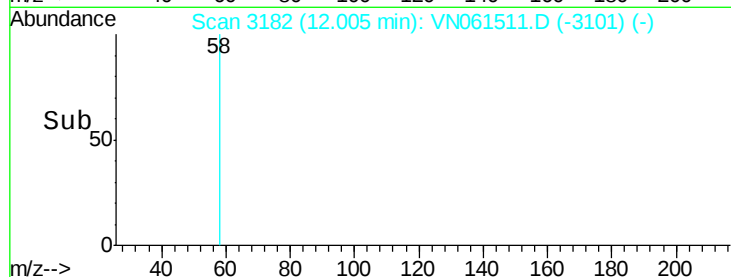
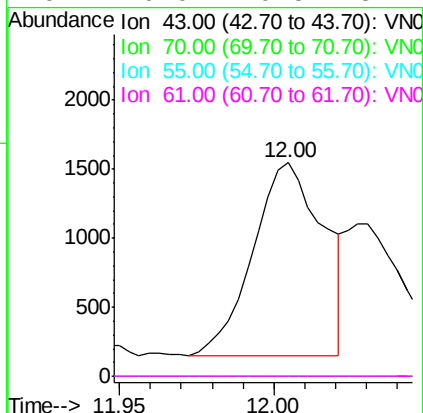
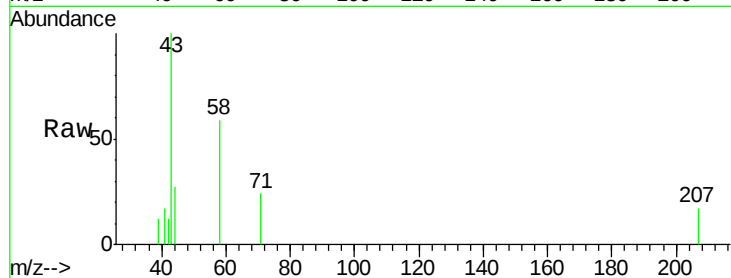




#74
N-amvl acetate
Concen: 0.316 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

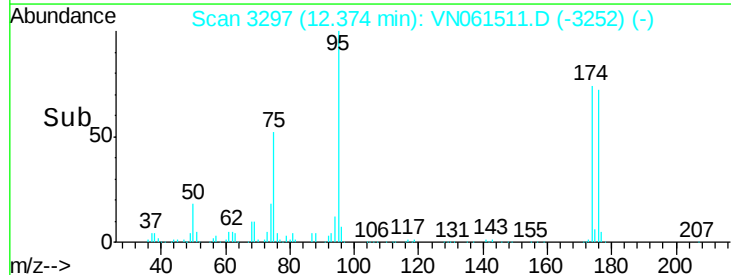
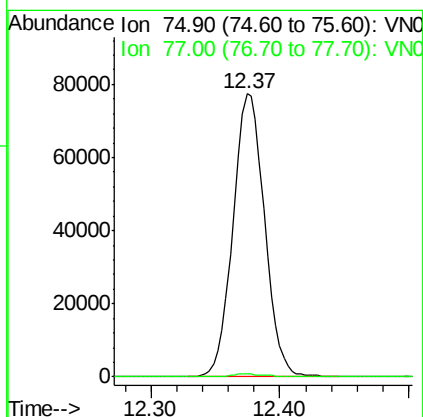
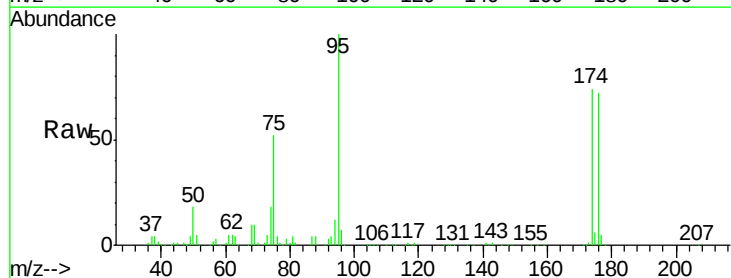
Instrument :
MSVOA_N
ClientSampleId :

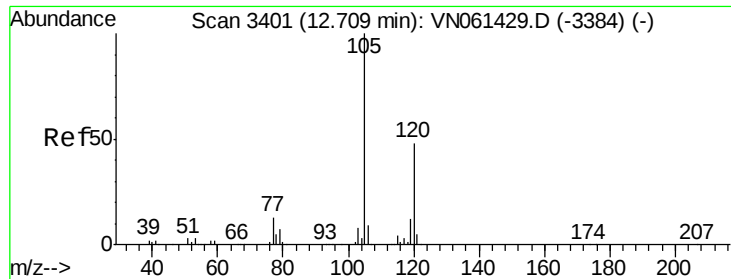
Tot Ion: 43 Resp: 2213
Ion Ratio Lower Upper
43 100
70 0.0 37.0 55.4#
55 0.0 19.5 29.3#
61 0.0 20.8 31.2#



#76
1,2,3-Trichloropropane
Concen: 25.771 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.15 min
Lab File: VN061511.D
Acq: 20 May 2020 19:24

Tgt Ion: 75 Resp: 131608
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.242 ug/l

RT: 12.71 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

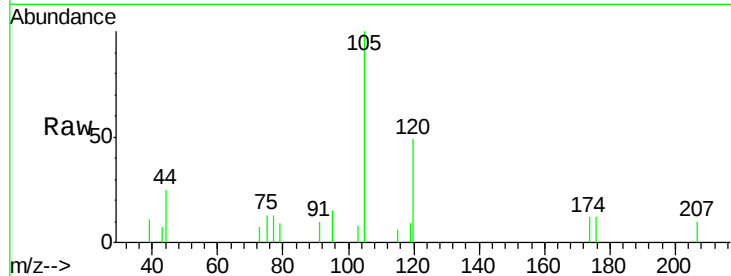
ClientSampled :

Tot Ion:105 Resp: 3780

Ion Ratio Lower Upper

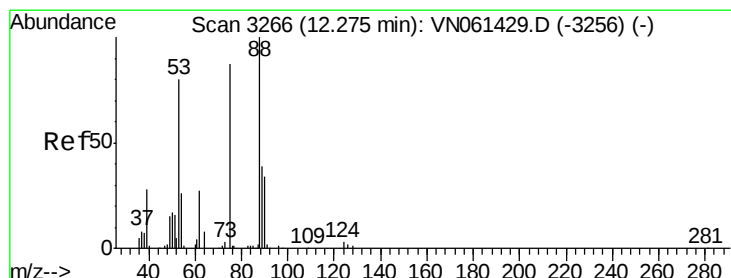
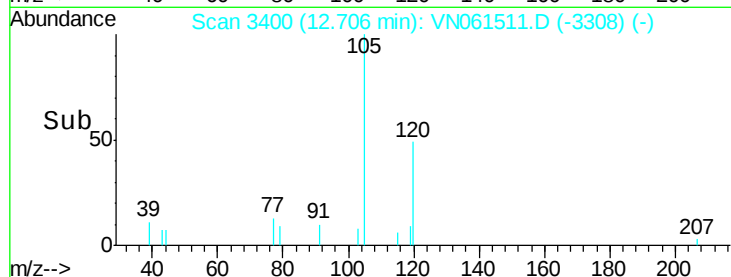
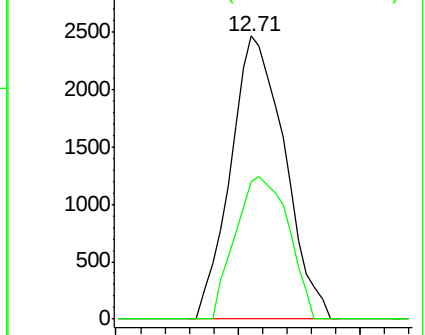
105 100

120 49.7 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 68.364 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

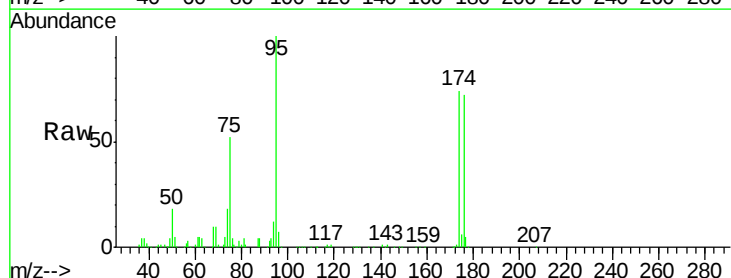
Tgt Ion: 75 Resp: 131608

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

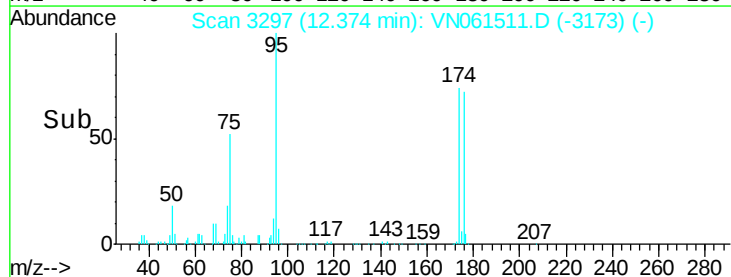
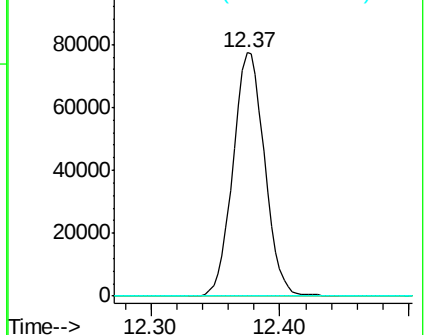
89 0.0 38.2 57.4#

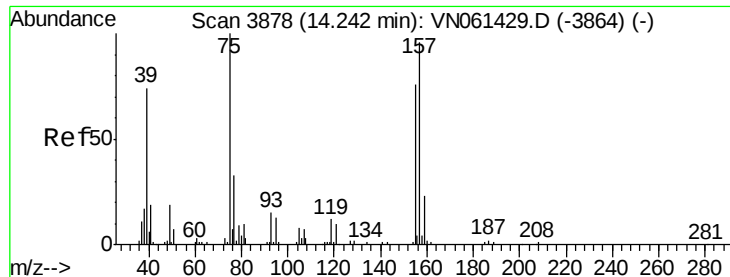


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.349 ug/l

RT: 14.45 min Scan# 3942

Delta R.T. 0.21 min

Lab File: VN061511.D

Acq: 20 May 2020 19:24

Instrument :

MSVOA_N

ClientSampleId :

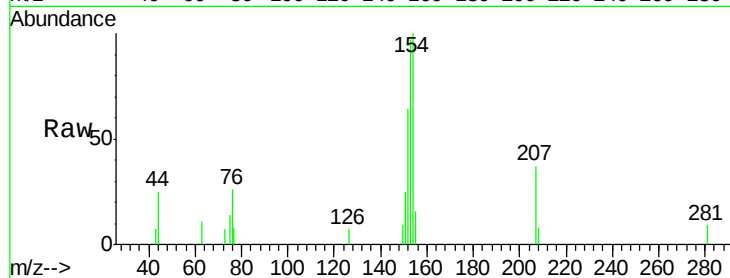
Tot Ion: 75 Resp: 371

Ion Ratio Lower Upper

75 100

155 38.8 38.9 116.7#

157 0.0 48.6 145.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

