

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\
 Data File : VN061530.D
 Acq On : 21 May 2020 15:04
 Operator : JC/MD
 Sample : PB129027ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

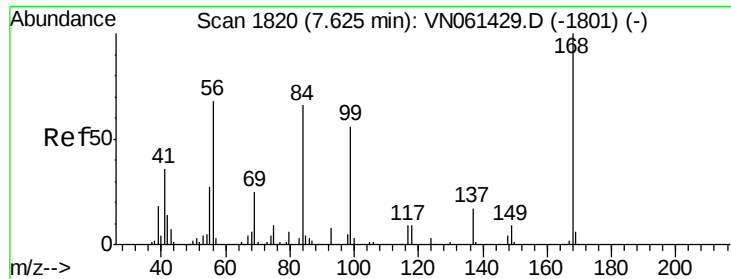
Quant Time: May 22 07:16:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	298127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	546290	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	551975	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	244271	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	198318	44.57	ug/l	0.00
Spiked Amount			Recovery	=	89.14%	
35) Dibromofluoromethane	7.55	113	144050	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
50) Toluene-d8	10.06	98	683472	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
62) 4-Bromofluorobenzene	12.38	95	262626	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	126	Below Cal	#	3
16) Acetone	3.78	43	14619	1.469	ug/l	96
17) Carbon Disulfide	4.01	76	255	Below Cal	#	75
18) Methyl Acetate	4.28	43	1737	Below Cal	#	78
20) Methylene Chloride	4.51	84	12373	3.384	ug/l	91
25) 2-Butanone	6.80	43	2303	1.137	ug/l	93
31) Cyclohexane	7.62	56	6386	Below Cal	#	3
36) 1,1-Dichloropropene	7.63	75	22865	4.476	ug/l	# 50
38) Carbon Tetrachloride	7.63	117	30325	6.447	ug/l	# 15
43) Isopropyl Acetate	8.13	43	74705	9.246	ug/l	# 91
45) 1,2-Dichloropropane	9.24	63	1626	0.422	ug/l	# 43
48) Methyl methacrylate	9.14	41	3728	0.999	ug/l	# 9
51) 4-Methyl-2-Pentanone	9.95	43	6857	1.558	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	39055	5.890	ug/l	# 58
57) 1,3-Dichloropropane	10.74	76	6351	0.984	ug/l	# 42
59) 2-Hexanone	10.73	43	74422	23.371	ug/l	# 52
71) Bromoform	12.37	173	583	2.199	ug/l	# 29
74) N-amyl acetate	12.00	43	2513	0.350	ug/l	# 46
76) 1,2,3-Trichloropropane	12.37	75	130153	24.832	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.71	105	4715	0.294	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.37	75	130153	65.872	ug/l	# 12

(#) = 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: VN061530.D

Acq: 21 May 2020 15:04

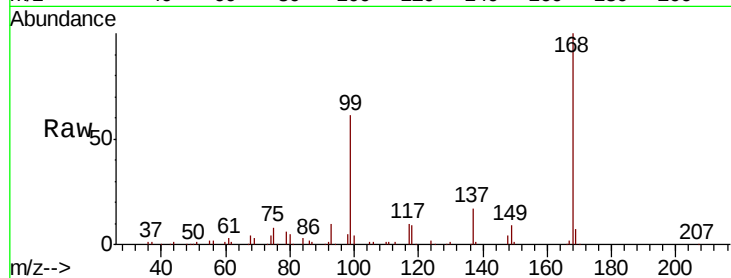
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 298127

Ion Ratio Lower Upper

168 100

99 60.8 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

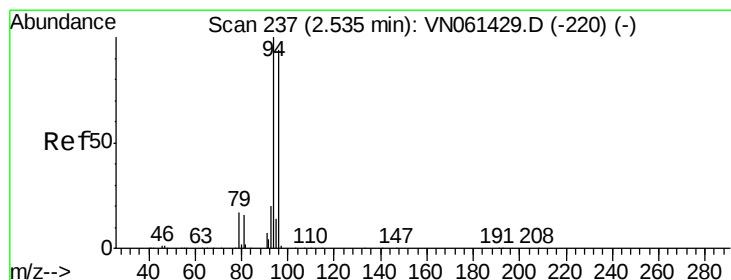
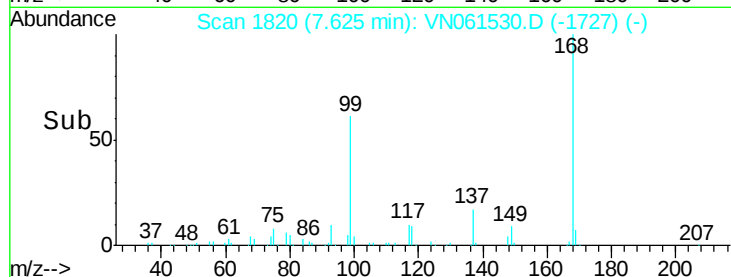
150000

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 236

Delta R.T. -0.00 min

Lab File: VN061530.D

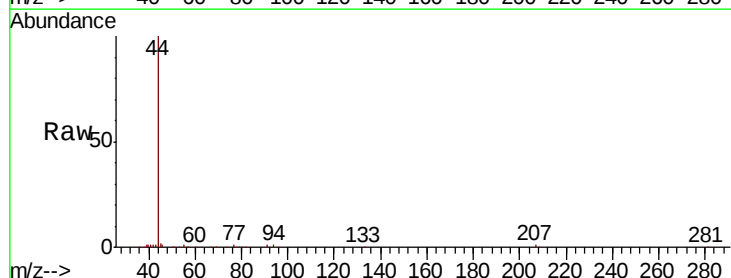
Acq: 21 May 2020 15:04

Tgt Ion: 94 Resp: 126

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

400

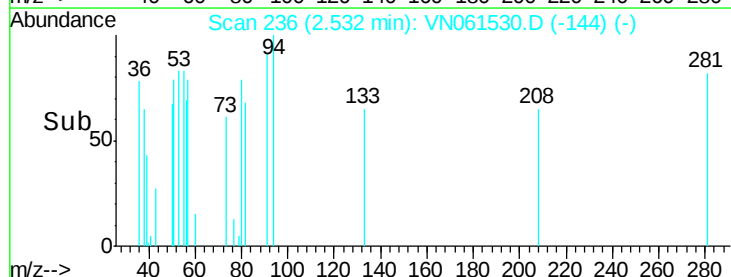
300

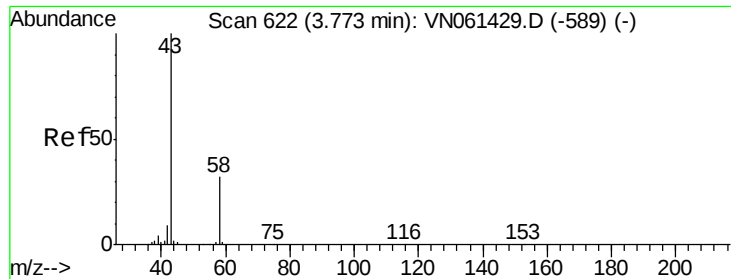
200

100

0

Time--> 2.52 2.53 2.54

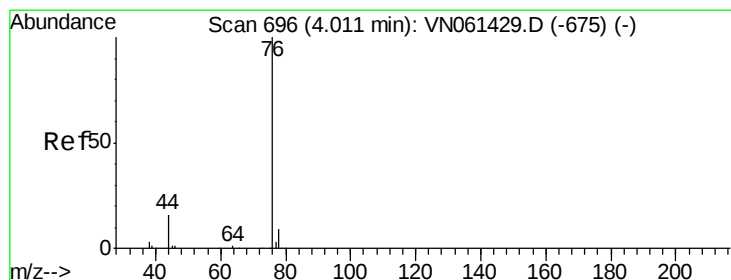
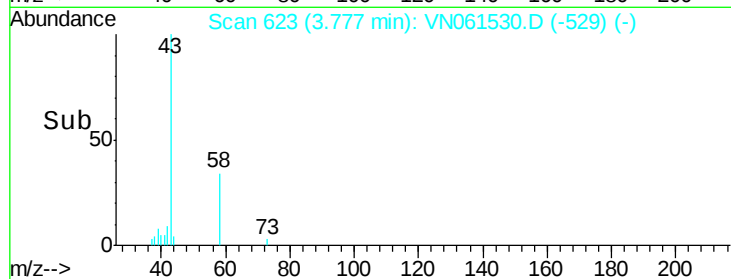
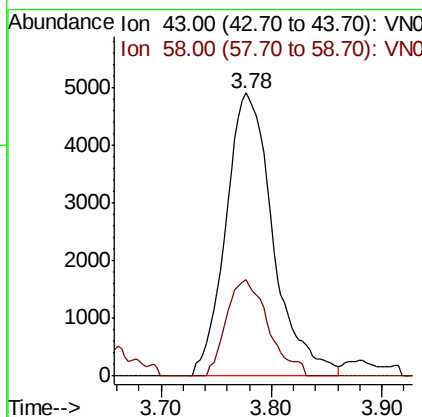
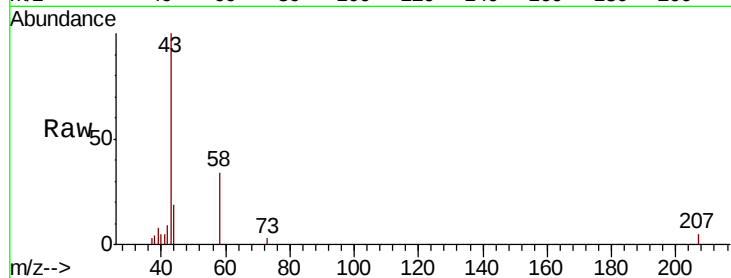




#16
Acetone
Concen: 1.469 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

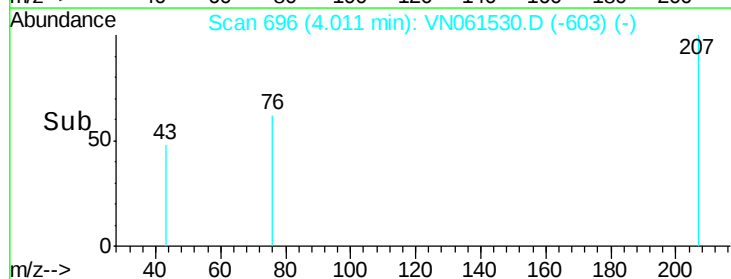
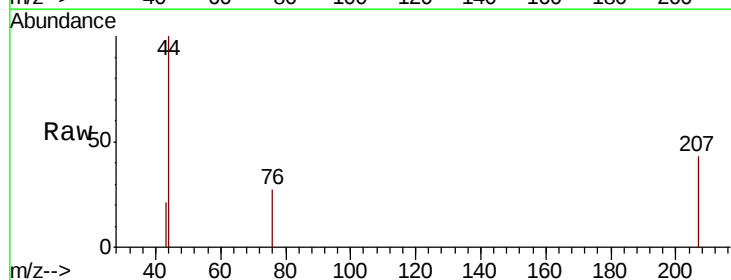
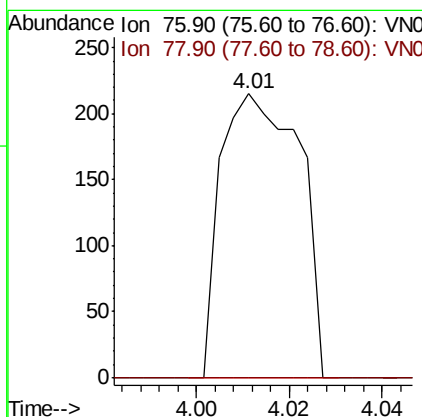
Instrument :
MSVOA_N
ClientSampled :

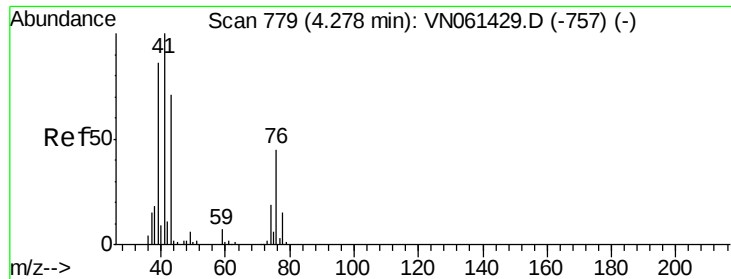
Tot Ion: 43 Resp: 14619
Ion Ratio Lower Upper
43 100
58 34.0 25.6 38.4



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.01 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

Tgt Ion: 76 Resp: 255
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

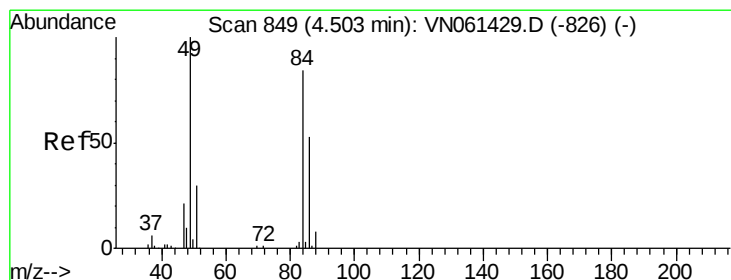
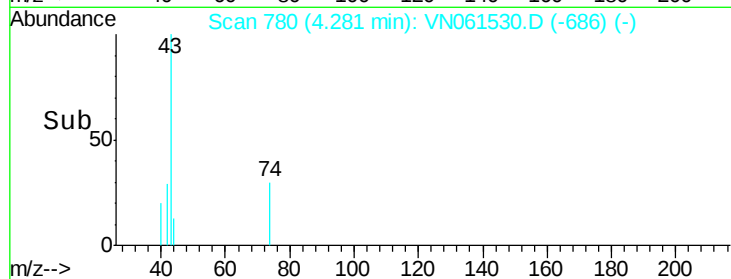
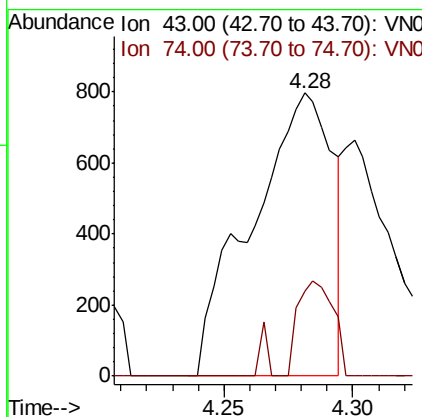
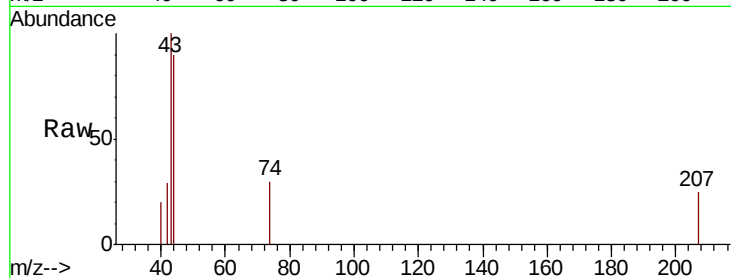




#18
Methyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

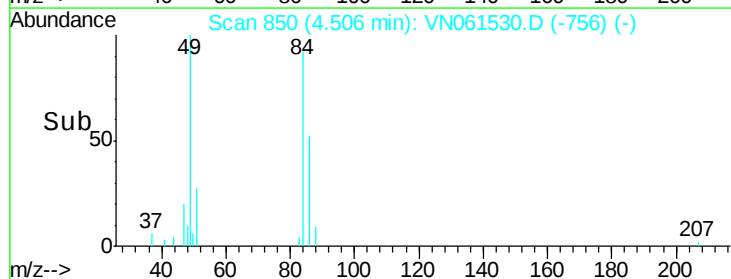
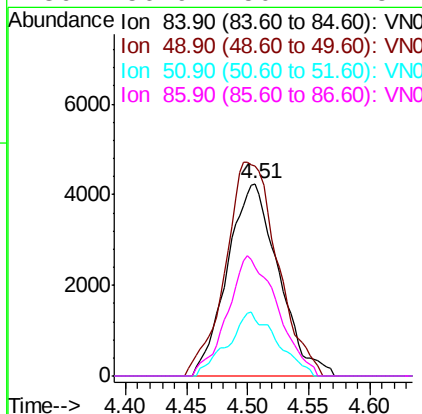
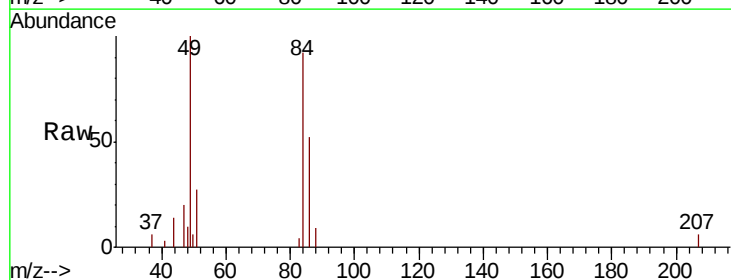
Instrument :
MSVOA_N
ClientSampled :

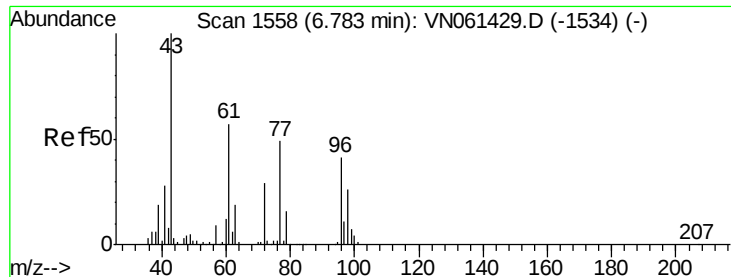
Tot Ion: 43 Resp: 1737
Ion Ratio Lower Upper
43 100
74 14.7 20.8 31.2#



#20
Methylene Chloride
Concen: 3.384 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

Tgt Ion: 84 Resp: 12373
Ion Ratio Lower Upper
84 100
49 109.2 95.3 142.9
51 29.6 29.0 43.6
86 56.9 50.2 75.2





#25

2-Butanone

Concen: 1.137 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

Instrument :

MSVOA_N

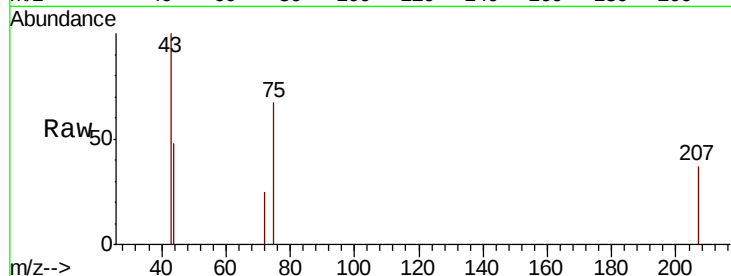
ClientSampleId :

Tot Ion: 43 Resp: 2303

Ion Ratio Lower Upper

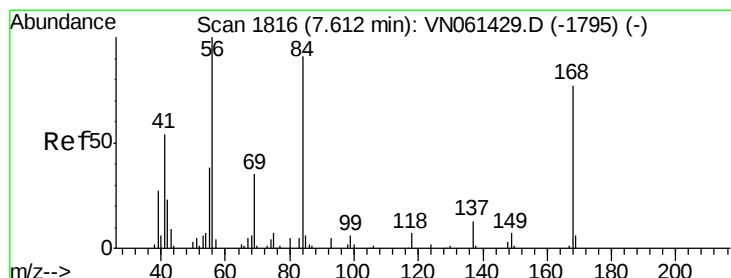
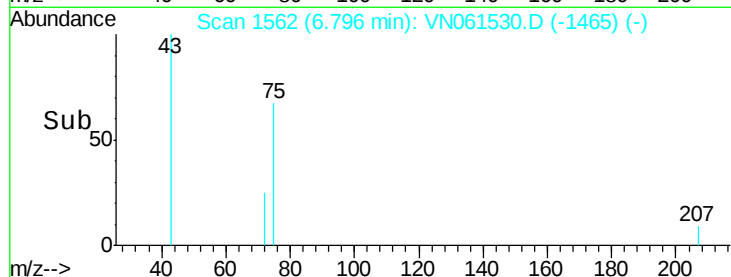
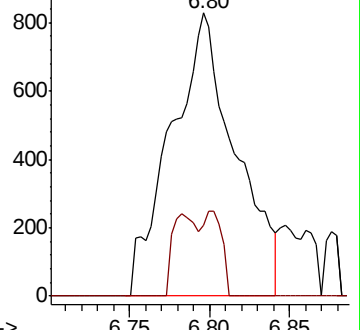
43 100

72 25.1 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

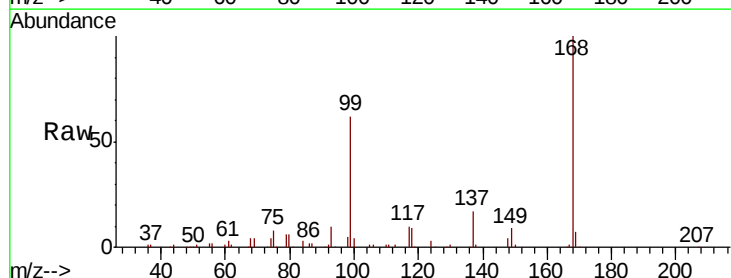
Tgt Ion: 56 Resp: 6386

Ion Ratio Lower Upper

56 100

69 159.7 27.8 41.6#

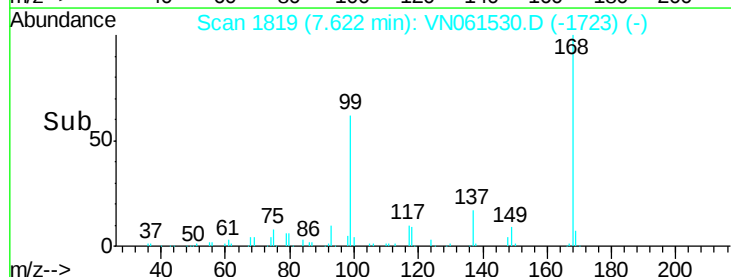
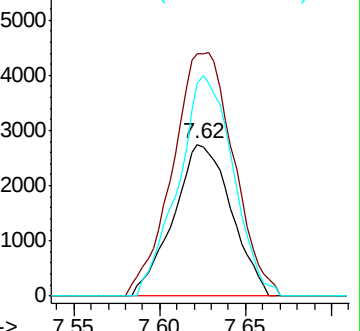
84 140.0 72.7 109.1#

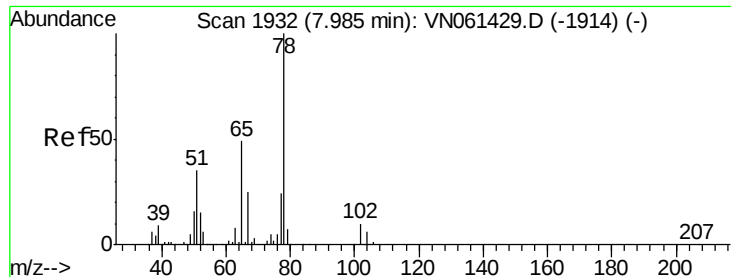


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

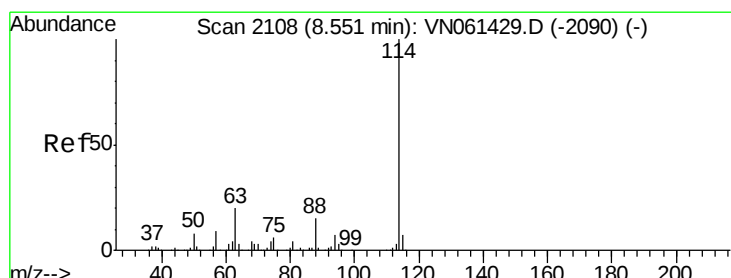
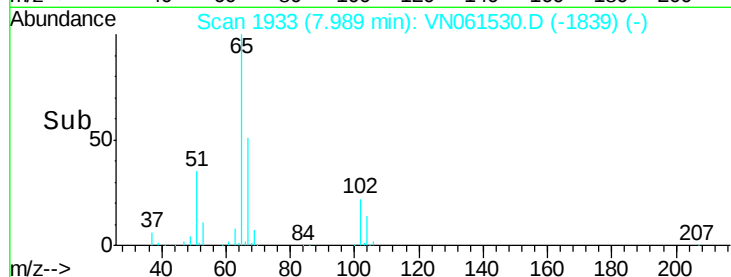
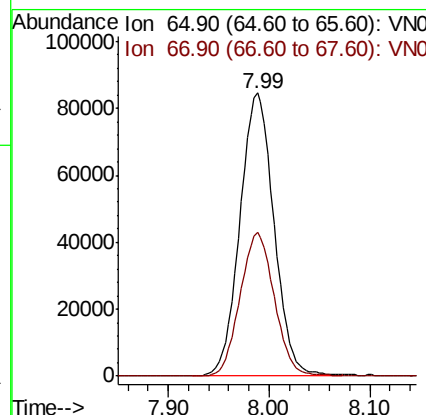
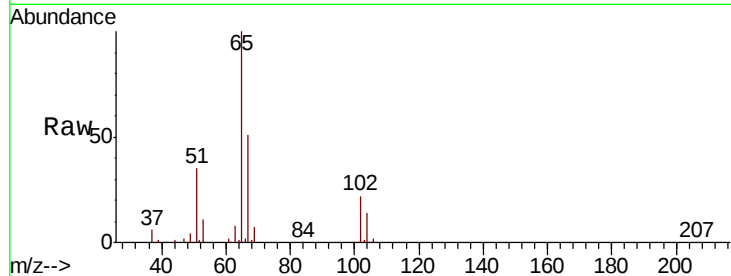




#33
 1,2-Dichloroethane-d4
 Concen: 44.572 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

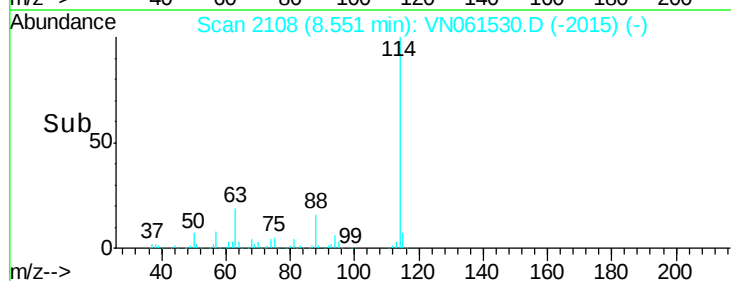
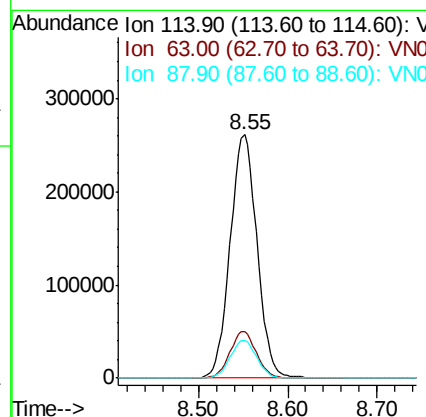
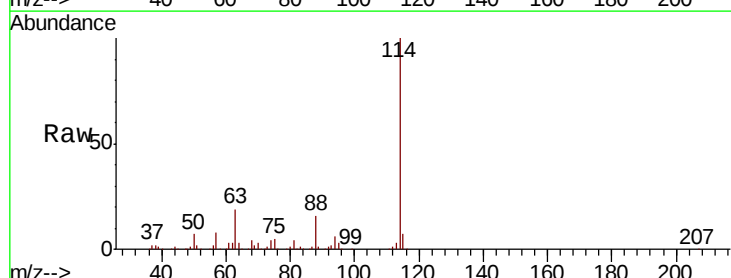
Instrument :
 MSVOA_N
 ClientSampleId :

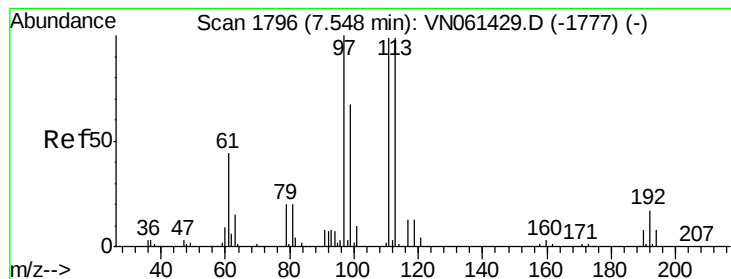
Tot Ion: 65 Resp: 198318
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

Tgt Ion: 114 Resp: 546290
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.8
 88 15.6 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.334 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

Instrument :
MSVOA_N
ClientSampled :

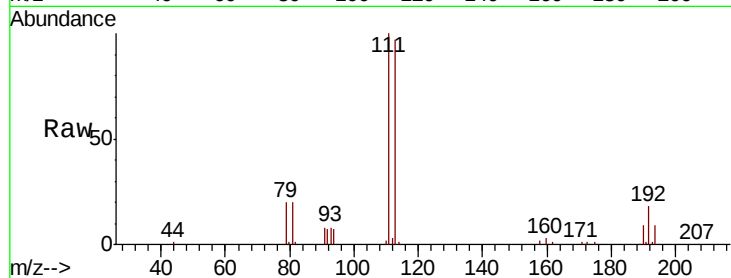
Tot Ion:113 Resp: 144050

Ion Ratio Lower Upper

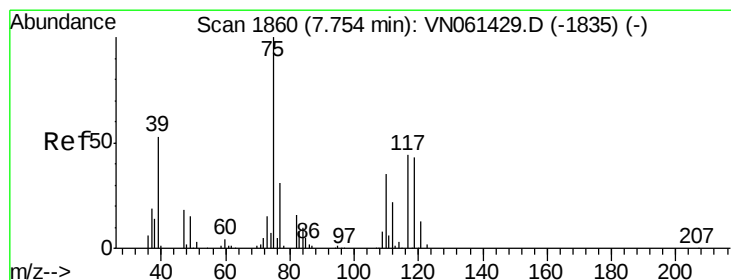
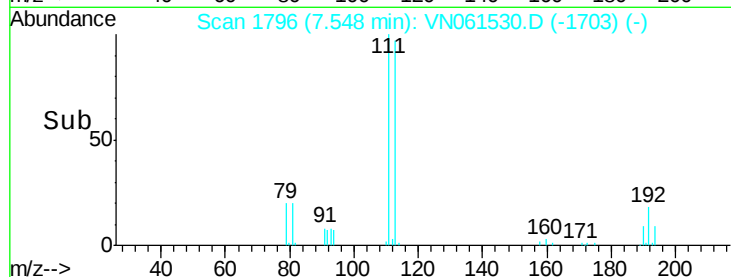
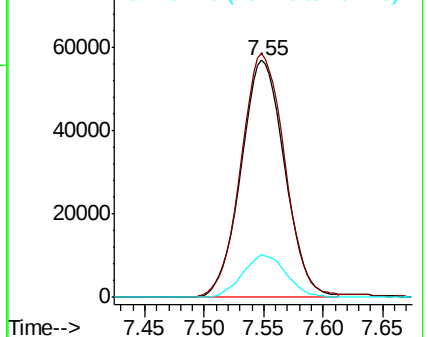
113 100

111 103.7 80.6 121.0

192 18.1 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: 4.476 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

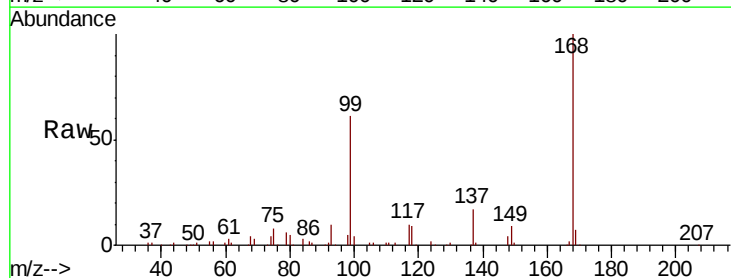
Tgt Ion: 75 Resp: 22865

Ion Ratio Lower Upper

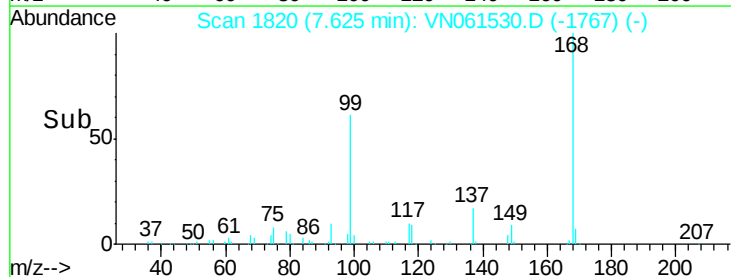
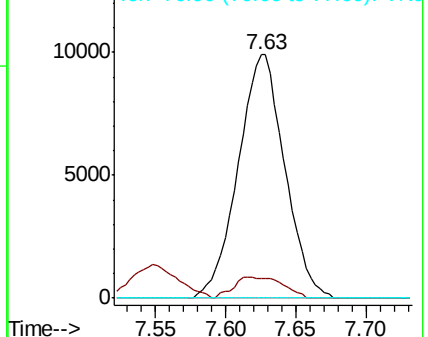
75 100

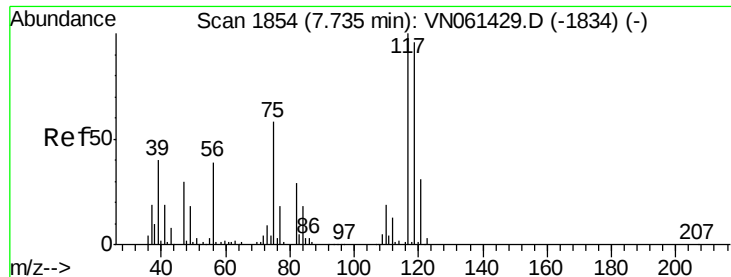
110 9.1 17.3 51.9#

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

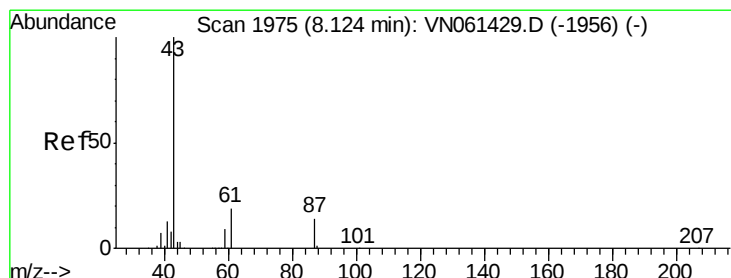
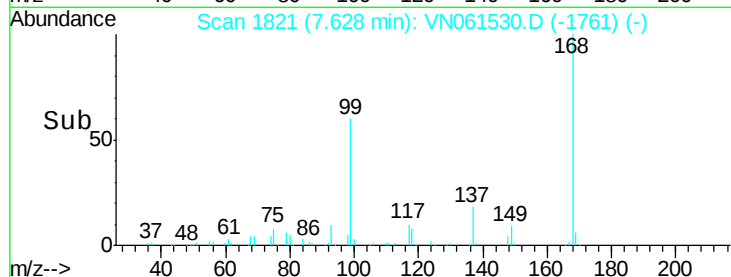
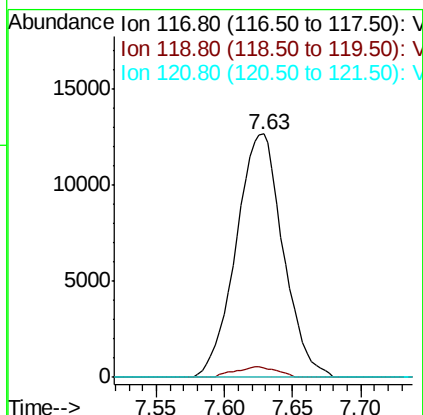
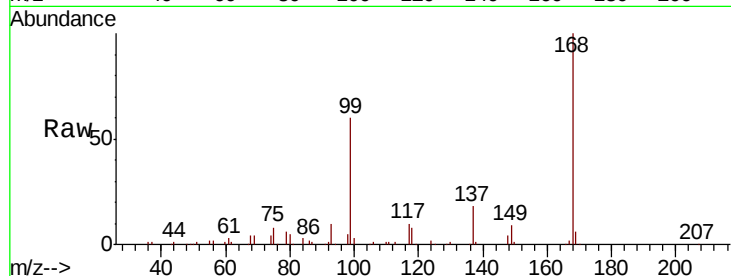




#38
Carbon Tetrachloride
Concen: 6.447 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.11 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

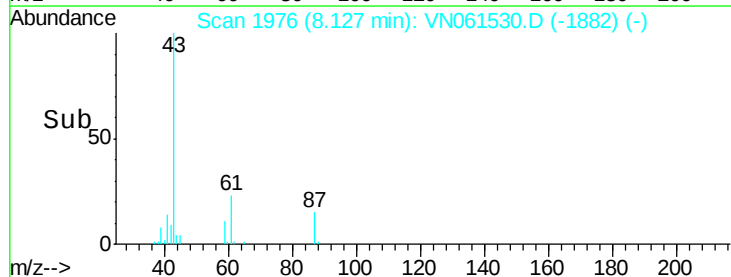
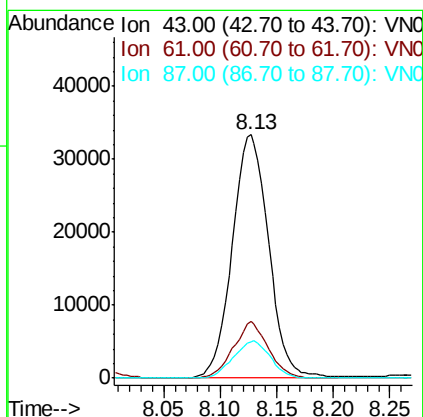
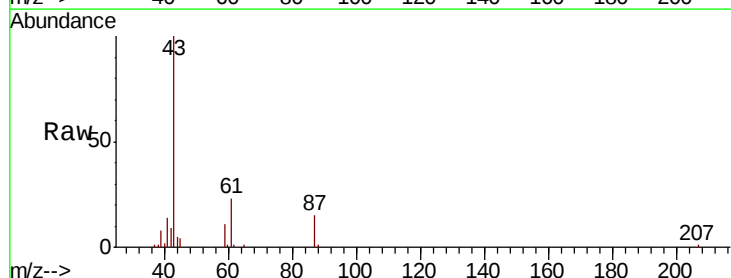
Instrument :
MSVOA_N
ClientSampled :

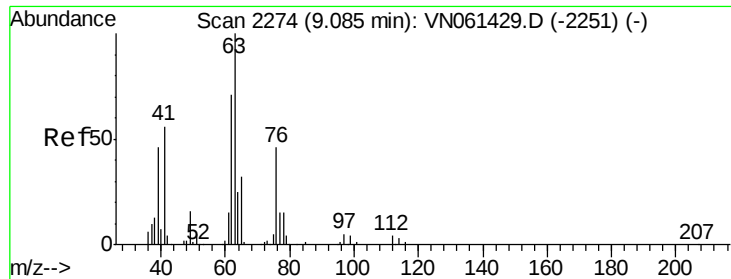
Tot Ion:117 Resp: 30325
Ion Ratio Lower Upper
117 100
119 3.8 77.0 115.6#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 9.246 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

Tgt Ion: 43 Resp: 74705
Ion Ratio Lower Upper
43 100
61 22.0 23.0 34.4#
87 15.3 11.6 17.4

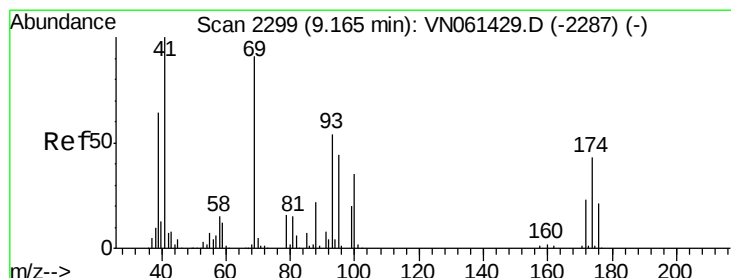
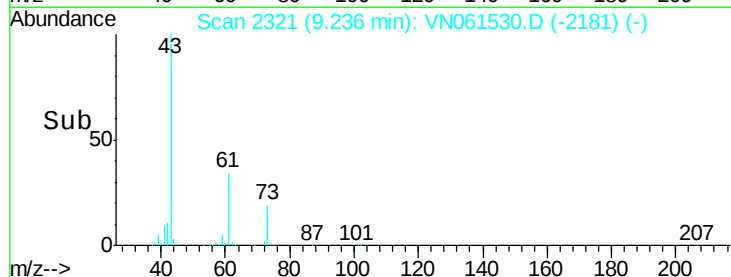
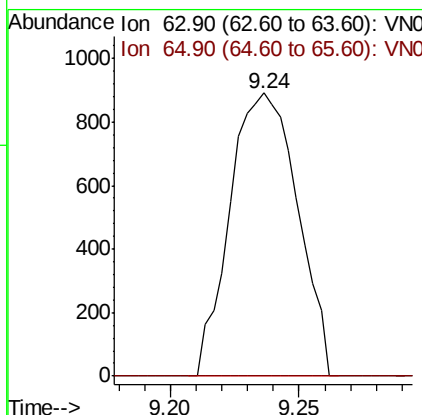
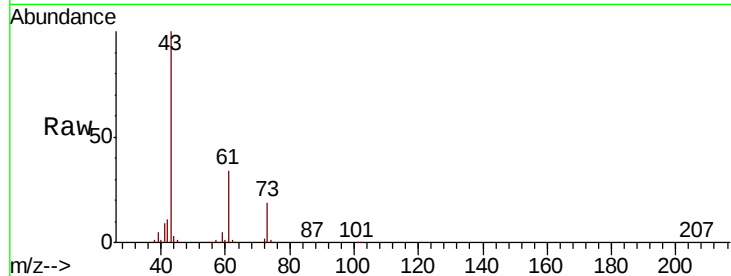




#45
 1,2-Dichloropropane
 Concen: 0.422 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

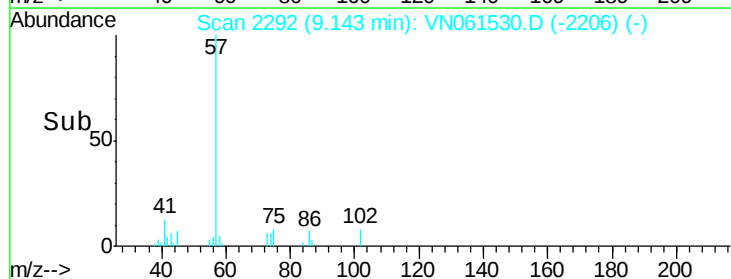
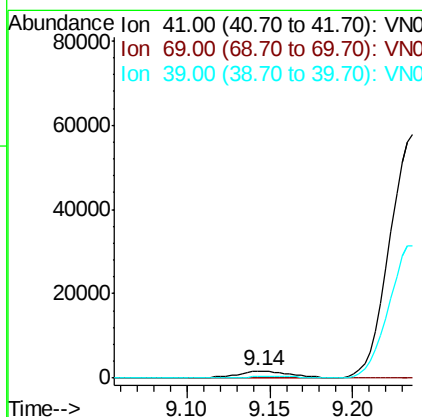
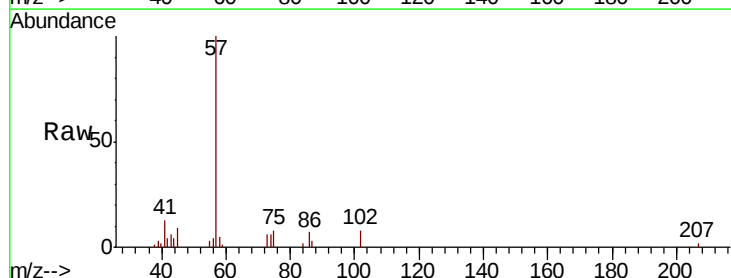
Instrument :
 MSVOA_N
 ClientSampleId :

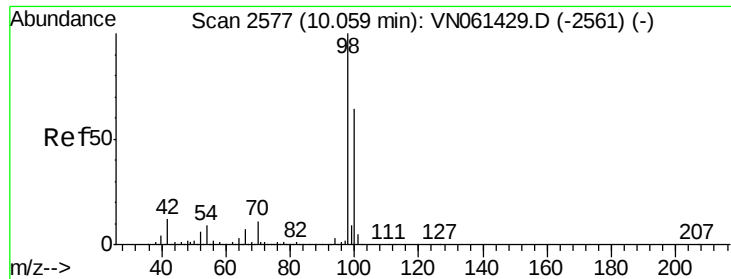
Tot Ion: 63 Resp: 1626
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 0.999 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. -0.02 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

Tgt Ion: 41 Resp: 3728
 Ion Ratio Lower Upper
 41 100
 69 0.0 75.3 112.9#
 39 0.0 52.6 79.0#





#50

Toluene-d8

Concen: 51.490 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

Instrument :

MSVOA_N

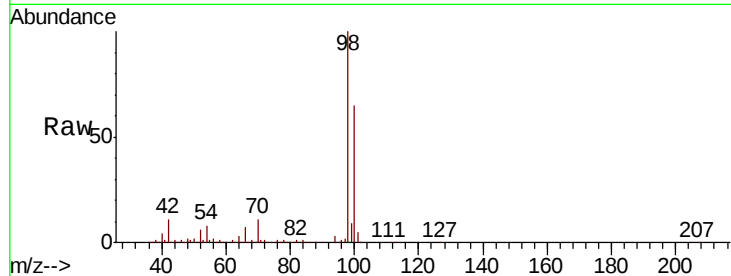
ClientSampleId :

Tot Ion: 98 Resp: 683472

Ion Ratio Lower Upper

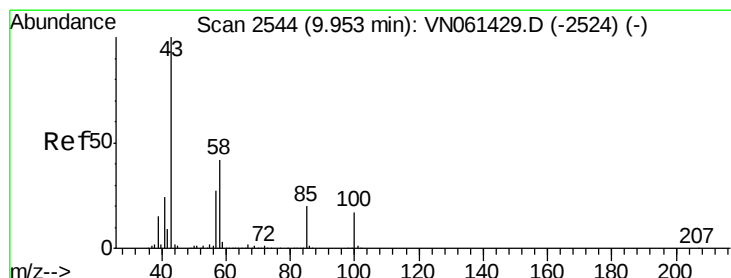
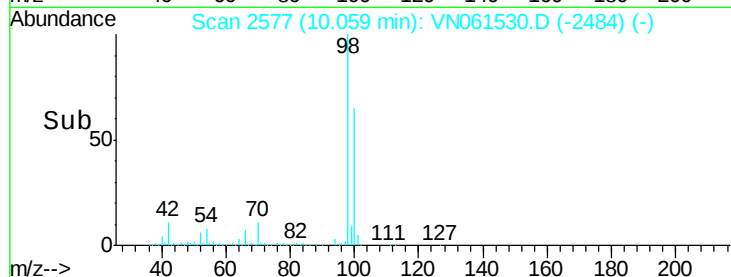
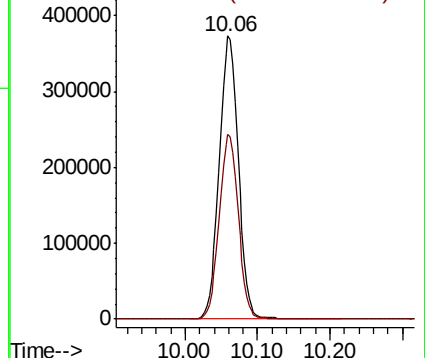
98 100

100 65.0 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: 1.558 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061530.D

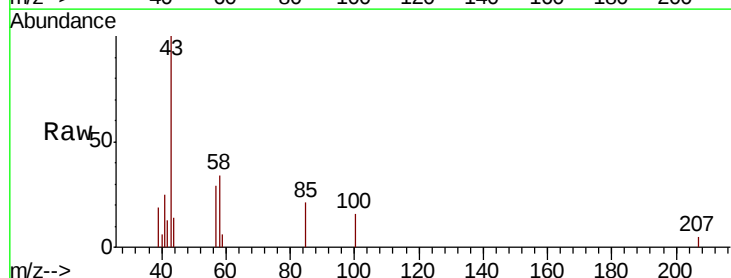
Acq: 21 May 2020 15:04

Tgt Ion: 43 Resp: 6857

Ion Ratio Lower Upper

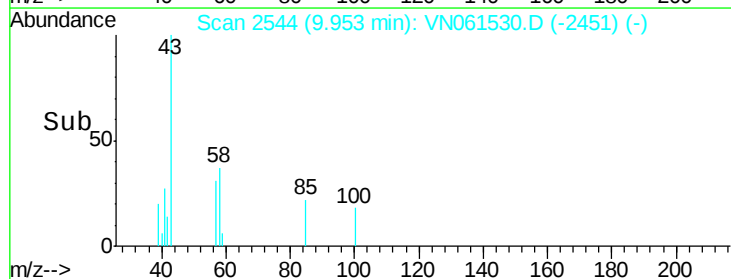
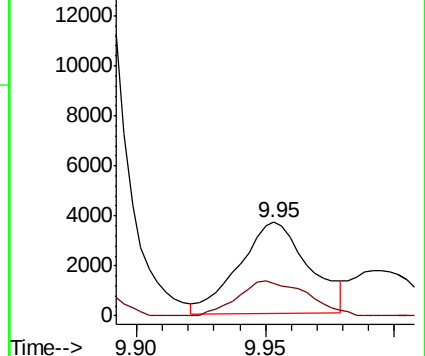
43 100

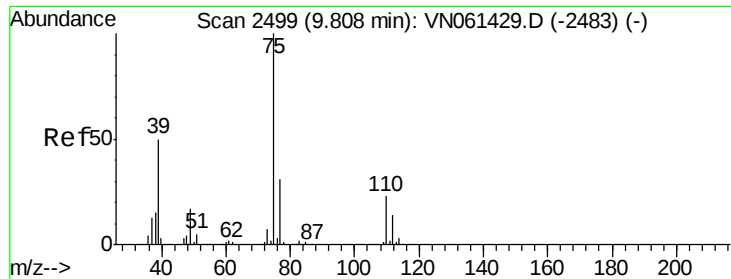
58 38.7 33.4 50.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



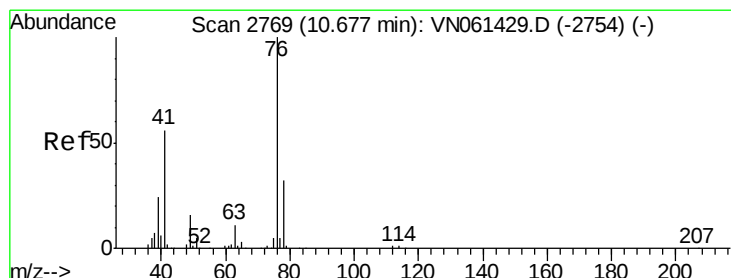
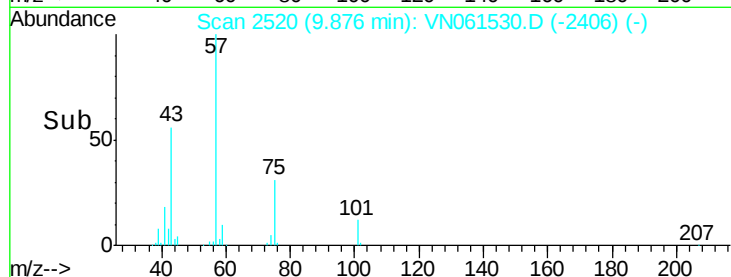
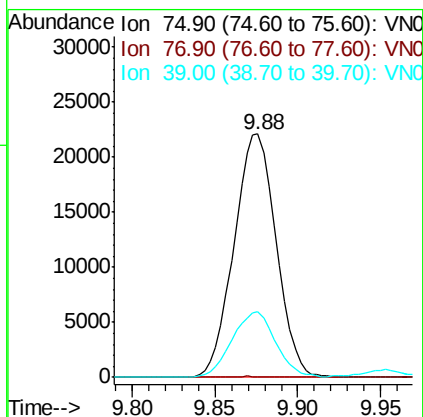
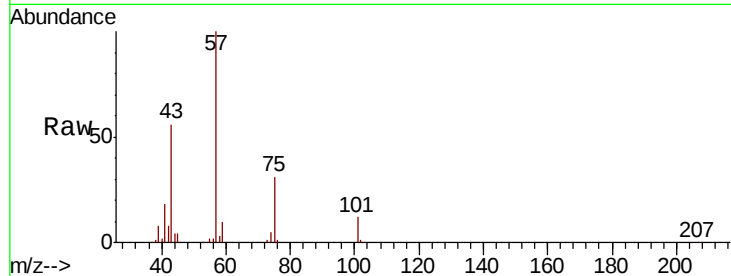


#54

cis-1,3-Dichloropropene
 Concen: 5.890 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

Instrument :
 MSVOA_N
 ClientSampleId :

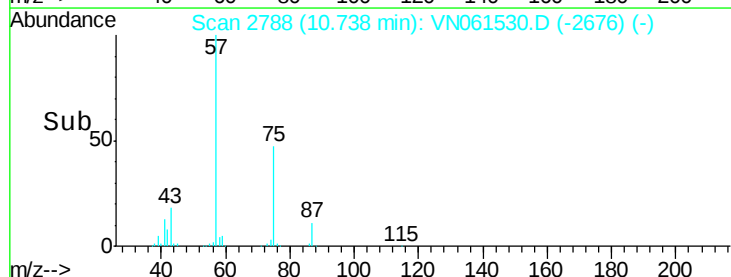
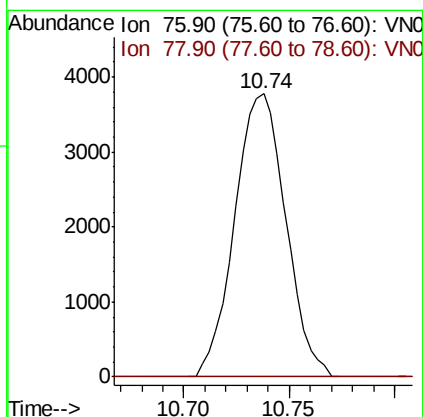
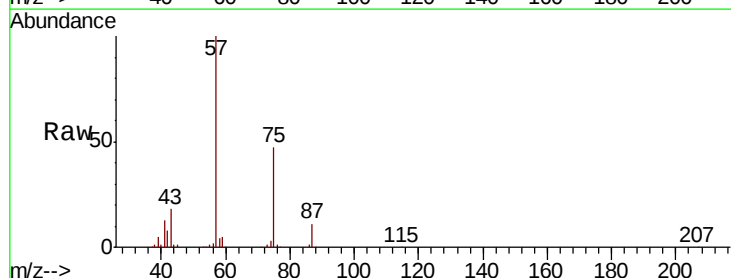
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	26.9	39.8	59.6#

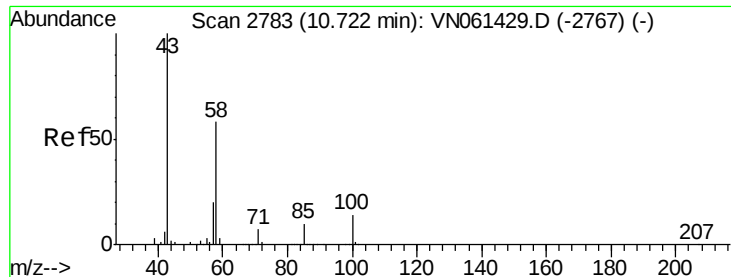


#57

1,3-Dichloropropane
 Concen: 0.984 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.0	39.0#

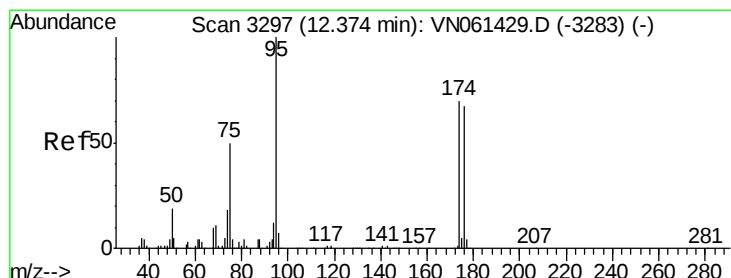
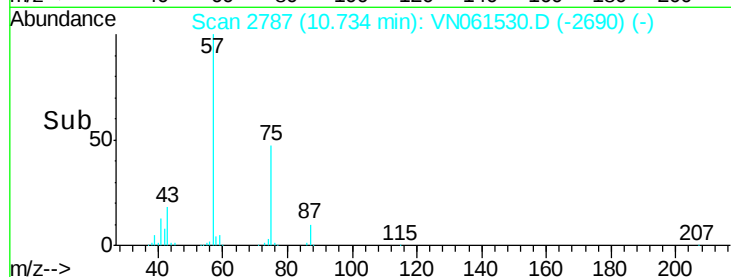
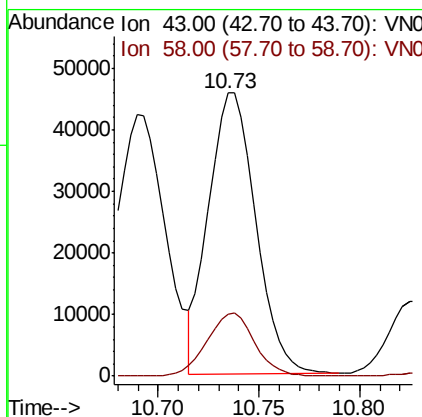
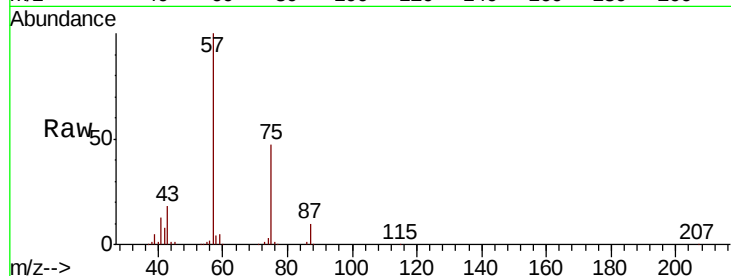




#59
2-Hexanone
Concen: 23.371 ug/l
RT: 10.73 min Scan# 2787
Delta R.T. 0.01 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

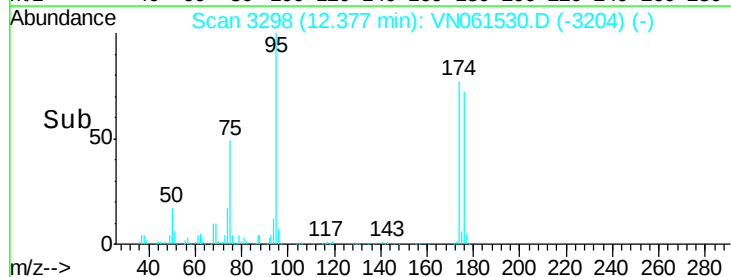
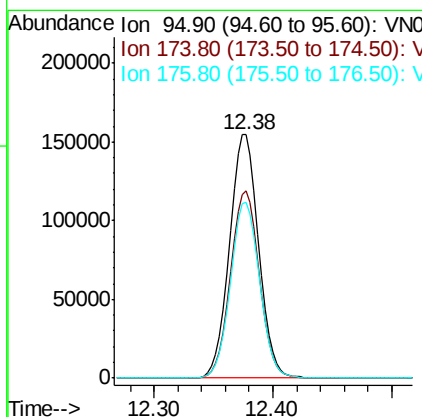
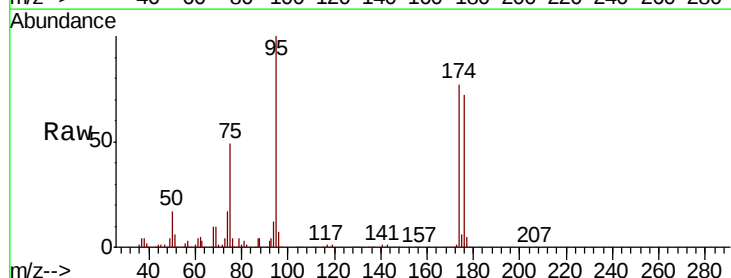
Instrument :
MSVOA_N
ClientSampled :

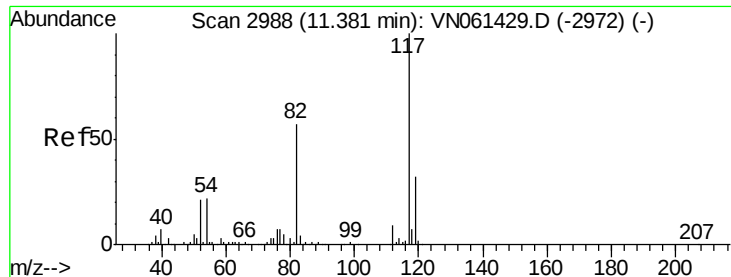
Tot Ion: 43 Resp: 74422
Ion Ratio Lower Upper
43 100
58 22.5 29.2 87.6#



#62
4-Bromofluorobenzene
Concen: 52.957 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

Tgt Ion: 95 Resp: 262626
Ion Ratio Lower Upper
95 100
174 76.0 0.0 141.2
176 72.2 0.0 137.6

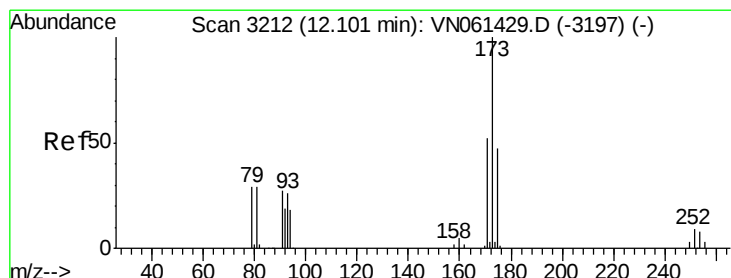
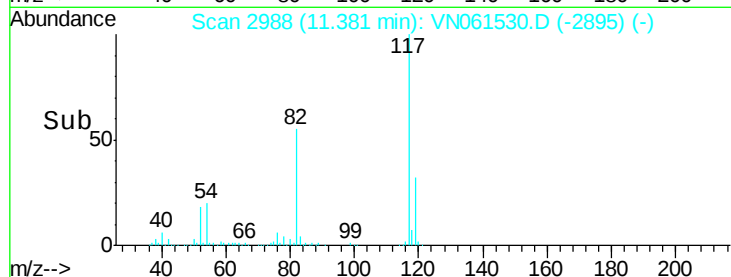
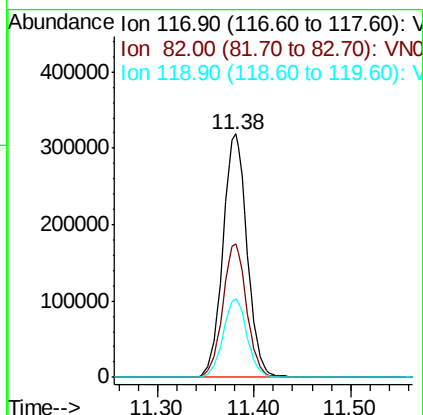
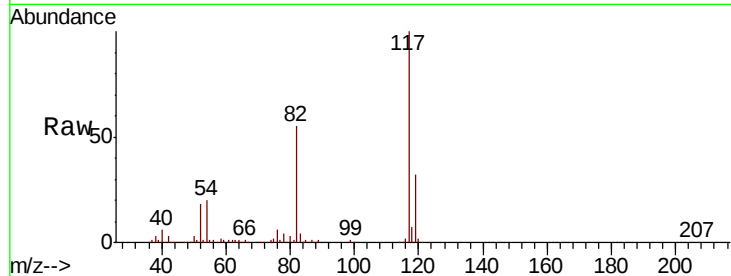




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

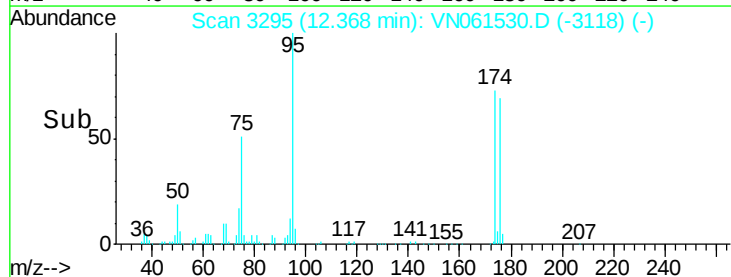
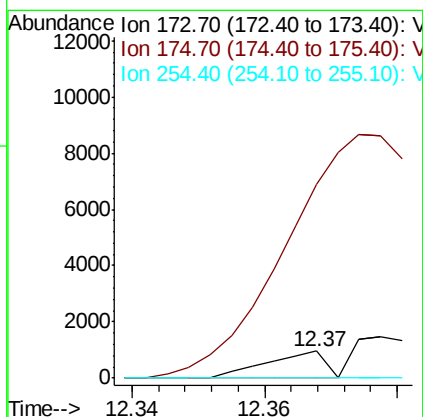
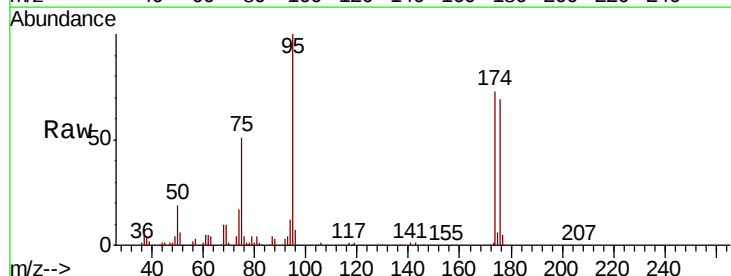
Instrument :
MSVOA_N
ClientSampleId :

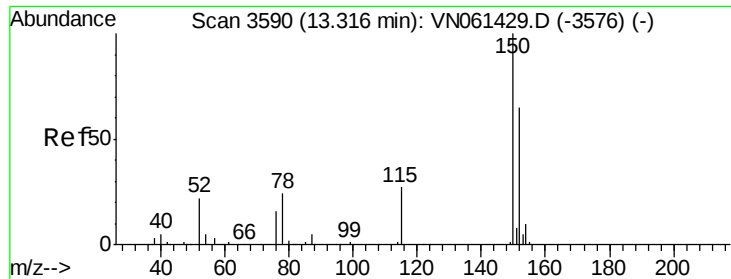
Tot Ion:117 Resp: 551975
Ion Ratio Lower Upper
117 100
82 54.7 45.2 67.8
119 32.1 25.3 37.9



#71
Bromoform
Concen: 2.199 ug/l
RT: 12.37 min Scan# 3295
Delta R.T. 0.27 min
Lab File: VN061530.D
Acq: 21 May 2020 15:04

Tgt Ion:173 Resp: 583
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

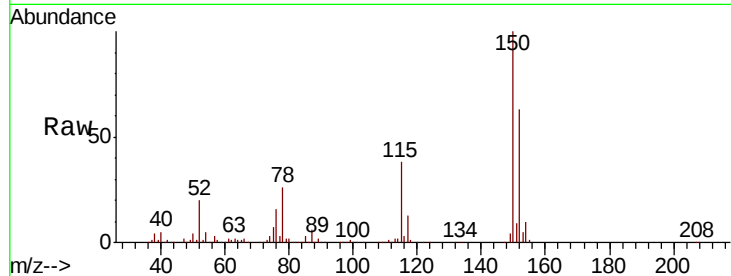
Tot Ion:152 Resp: 244271

Ion Ratio Lower Upper

152 100

115 59.6 30.9 92.5

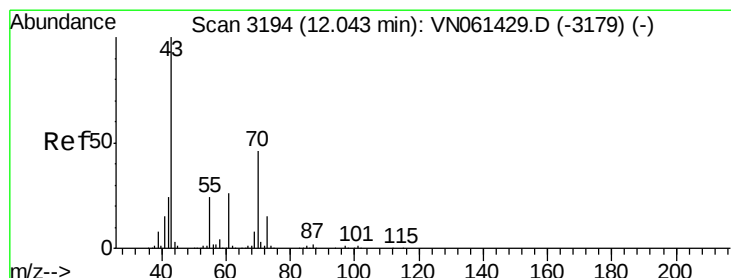
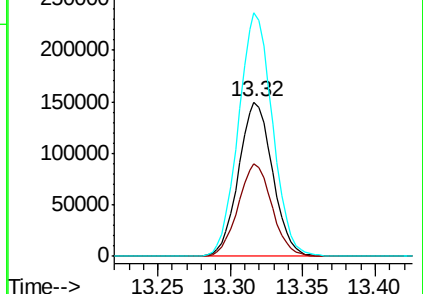
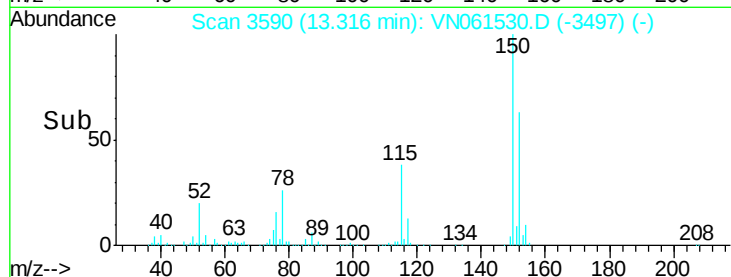
150 158.2 0.0 349.2



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-ethyl acetate

Concen: 0.350 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

Tgt Ion: 43 Resp: 2513

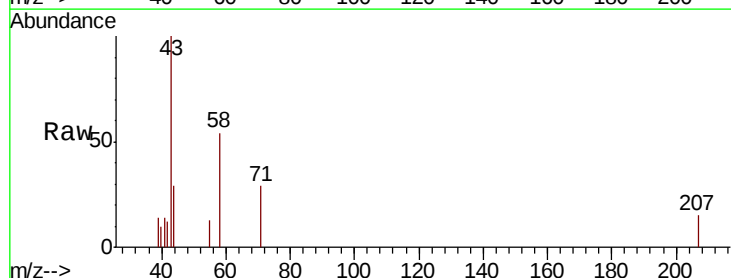
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 10.9 19.5 29.3#

61 0.0 20.8 31.2#

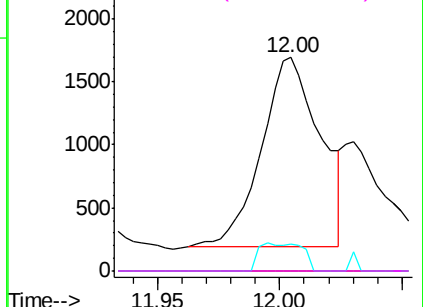
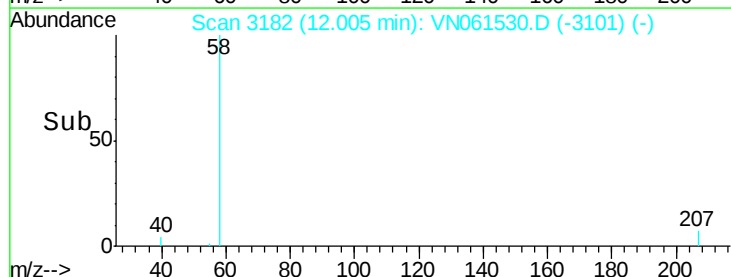


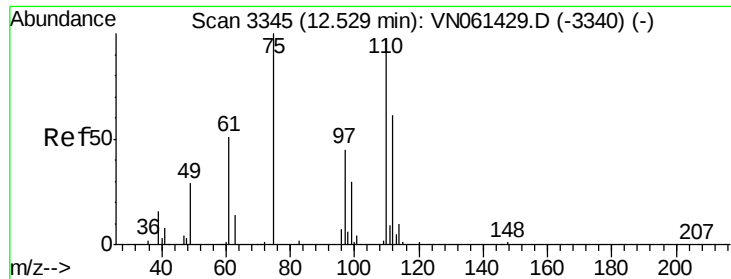
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

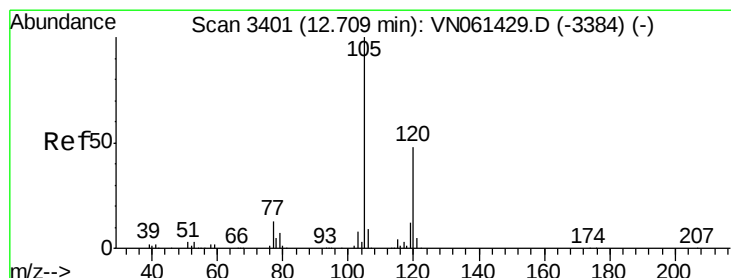
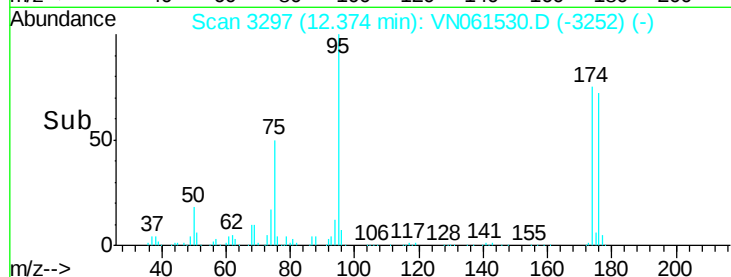
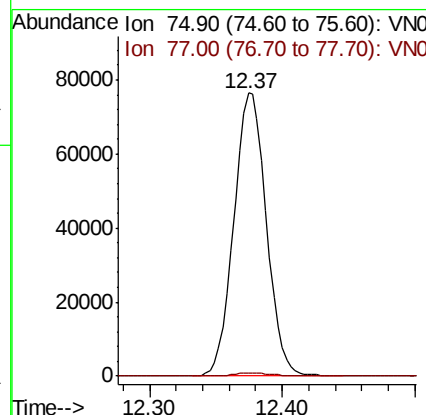
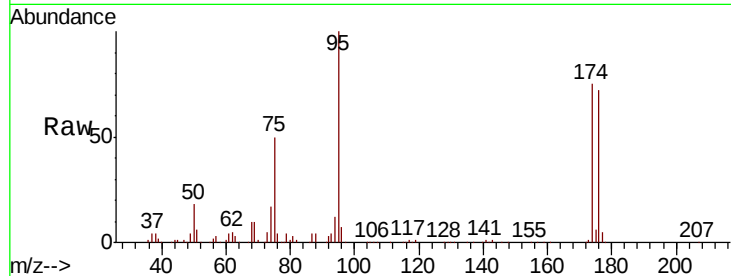




#76
 1,2,3-Trichloropropane
 Concen: 24.832 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. -0.15 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

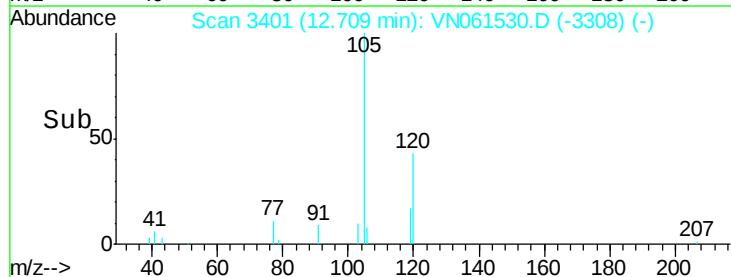
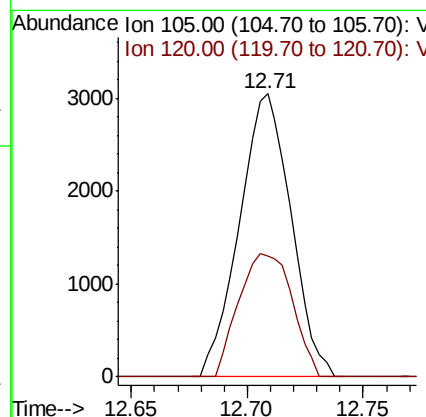
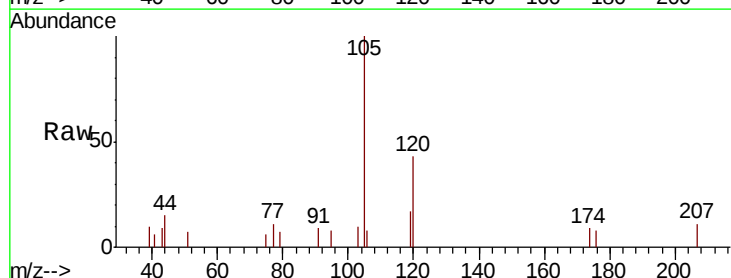
Instrument :
 MSVOA_N
 ClientSampled :

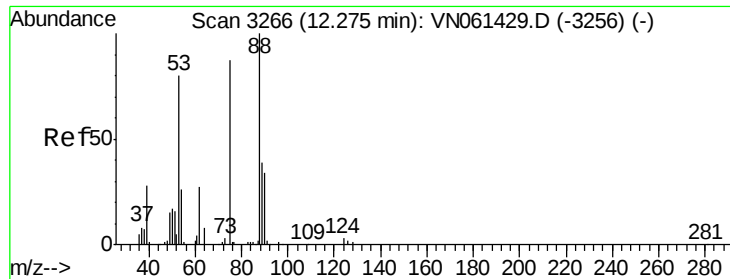
Tot Ion: 75 Resp: 130153
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.294 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN061530.D
 Acq: 21 May 2020 15:04

Tgt Ion: 105 Resp: 4715
 Ion Ratio Lower Upper
 105 100
 120 45.2 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 65.872 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061530.D

Acq: 21 May 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 130153

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#

