

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061447.D
 Acq On : 18 May 2020 20:10
 Operator : JC/MD
 Sample : L2506-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 19 03:32:53 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	258633	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	481111	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	480098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	205853	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	187323	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
35) Dibromofluoromethane	7.55	113	137037	54.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.74%	
50) Toluene-d8	10.06	98	617920	52.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.72%	
62) 4-Bromofluorobenzene	12.37	95	233930	53.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.12%	

Target Compounds

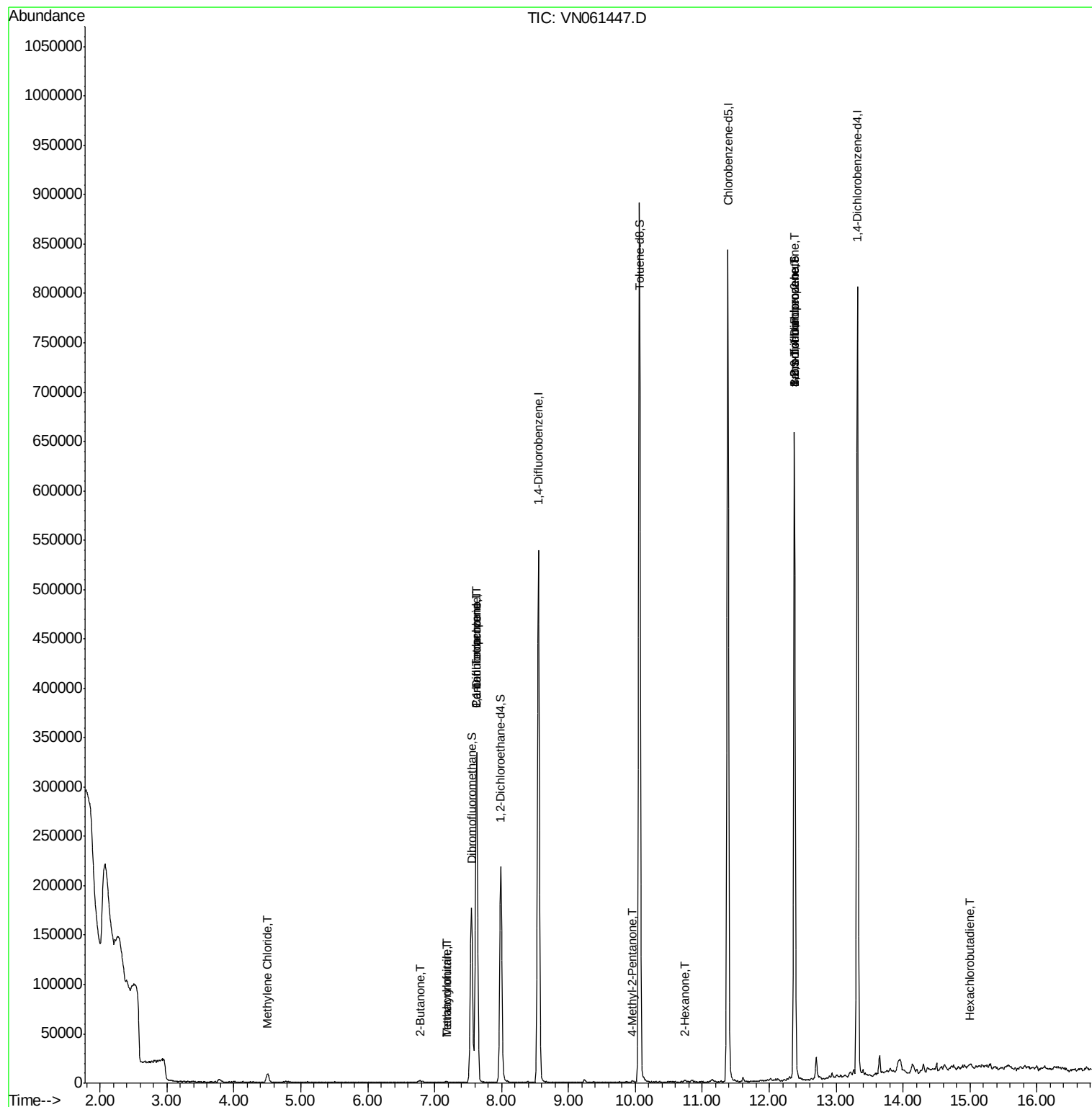
						Qvalue
5) Bromomethane	2.53	94	328	Below Cal	#	3
16) Acetone	3.79	43	5504	Below Cal		98
17) Carbon Disulfide	4.00	76	579	Below Cal	#	75
18) Methyl Acetate	4.27	43	29	Below Cal	#	49
20) Methylene Chloride	4.50	84	6367	2.007	ug/l #	92
25) 2-Butanone	6.79	43	887	0.505	ug/l #	46
29) Tetrahydrofuran	7.18	42	571	0.491	ug/l #	42
31) Cyclohexane	7.63	56	6219	Below Cal	#	5
36) 1,1-Dichloropropene	7.62	75	22939	5.099	ug/l #	48
38) Carbon Tetrachloride	7.63	117	26890	6.492	ug/l #	15
41) Methacrylonitrile	7.19	41	472	0.274	ug/l #	24
51) 4-Methyl-2-Pentanone	9.95	43	1218	0.314	ug/l #	85
59) 2-Hexanone	10.74	43	727	0.259	ug/l #	22
71) Bromoform	12.38	173	1821	2.660	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	125871	28.496	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	125871	75.594	ug/l #	12
94) Hexachlorobutadiene	14.99	225	307	0.202	ug/l #	19

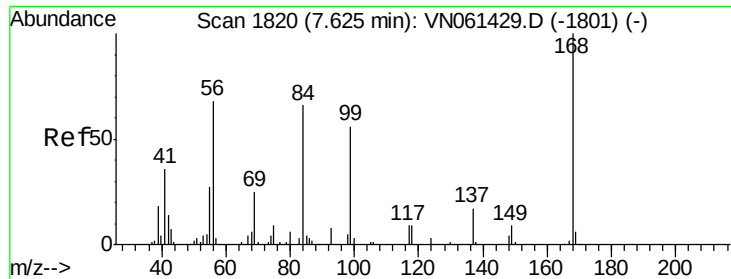
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

Instrument :

MSVOA_N

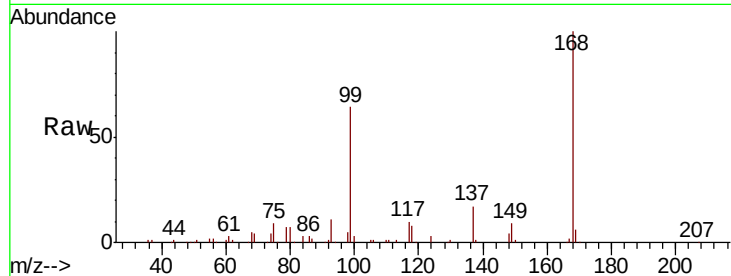
ClientSampled :

Tot Ion:168 Resp: 258633

Ion Ratio Lower Upper

168 100

99 63.6 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): VN061447.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN061447.D (-1727) (-)

7.63

120000

100000

80000

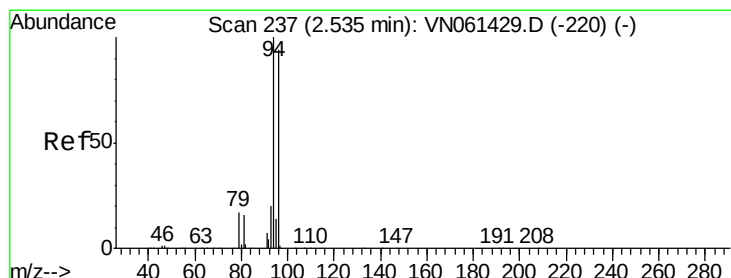
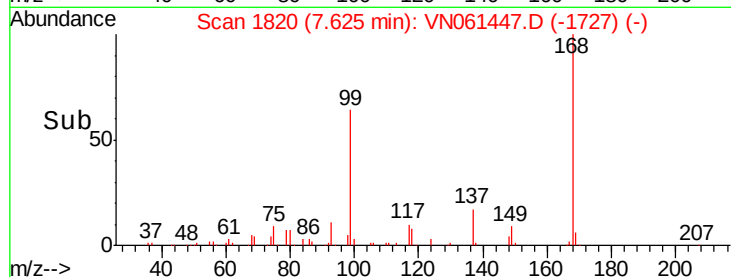
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. -0.01 min

Lab File: VN061447.D

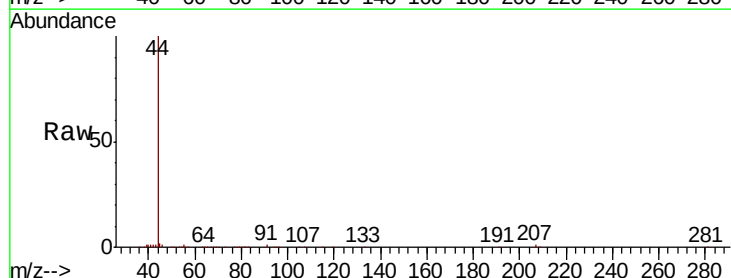
Acq: 18 May 2020 20:10

Tgt Ion: 94 Resp: 328

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN061447.D (-144) (-)

Ion 95.90 (95.60 to 96.60): VN061447.D (-144) (-)

2.53

500

400

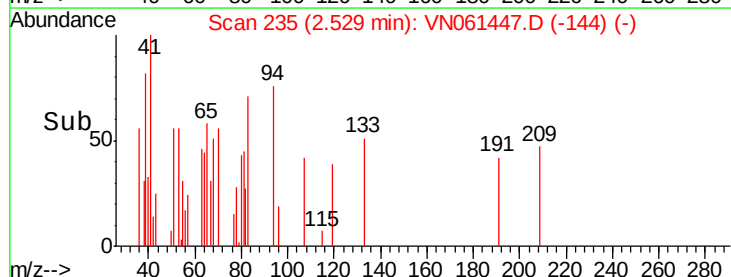
300

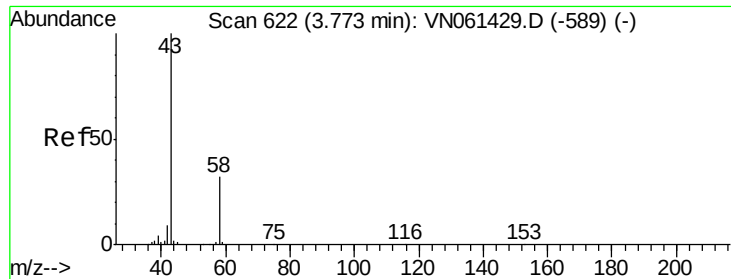
200

100

0

Time--> 2.50 2.51 2.52 2.53 2.54





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

Instrument :

MSVOA_N

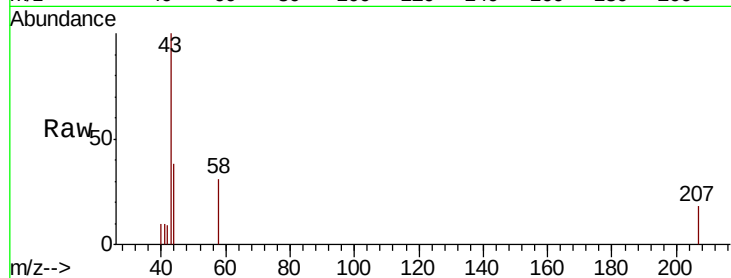
ClientSampled :

Tot Ion: 43 Resp: 5504

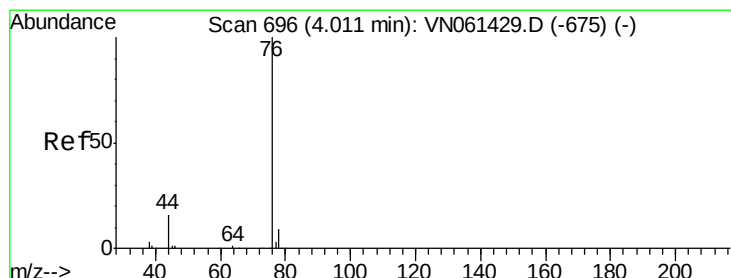
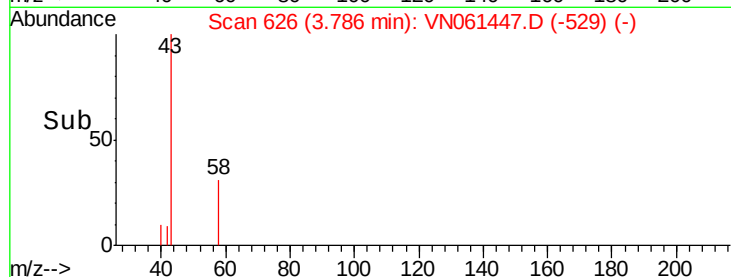
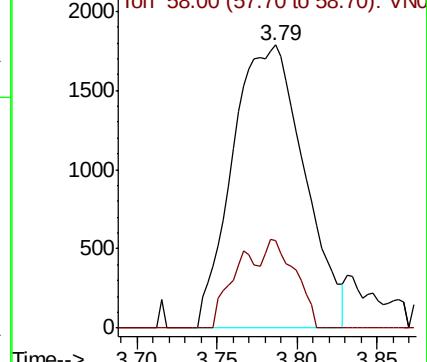
Ion Ratio Lower Upper

43 100

58 30.8 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-589) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN061447.D

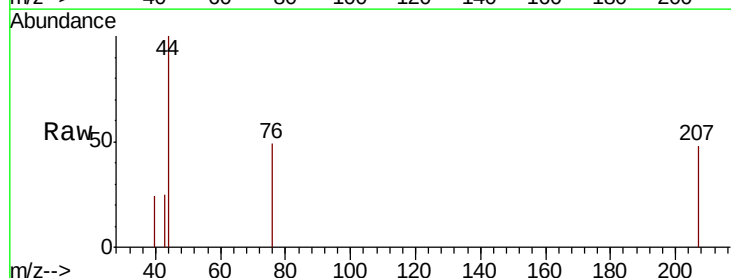
Acq: 18 May 2020 20:10

Tgt Ion: 76 Resp: 579

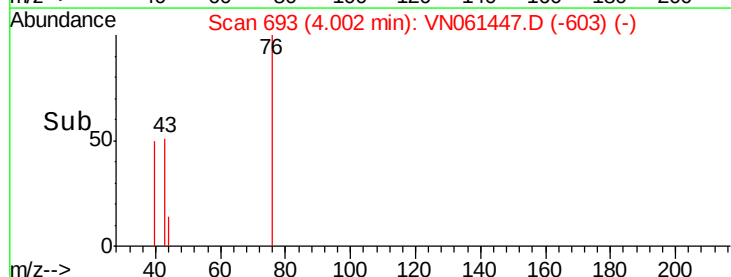
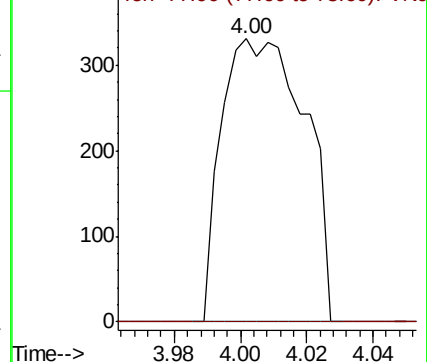
Ion Ratio Lower Upper

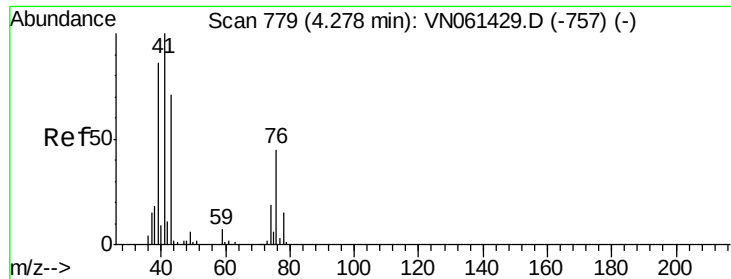
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN061429.D (-675) (-)

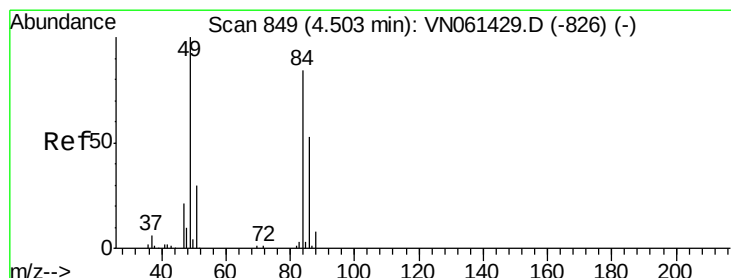
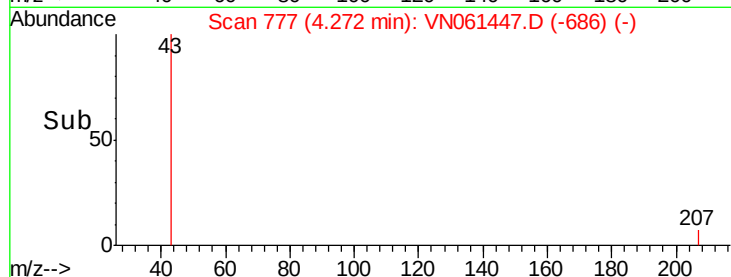
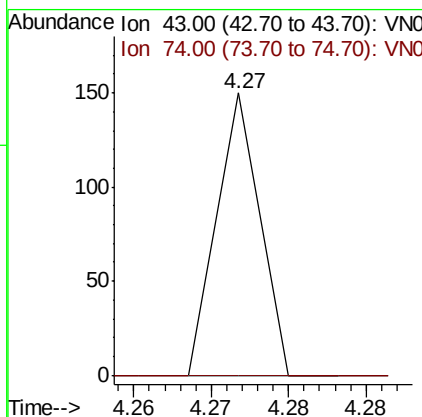
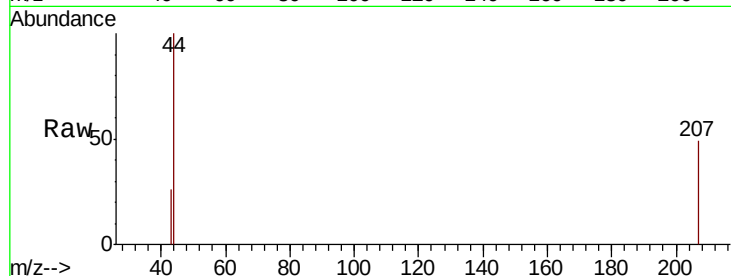




#18
Methyl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 777
Delta R.T. -0.01 min
Lab File: VN061447.D
Acq: 18 May 2020 20:10

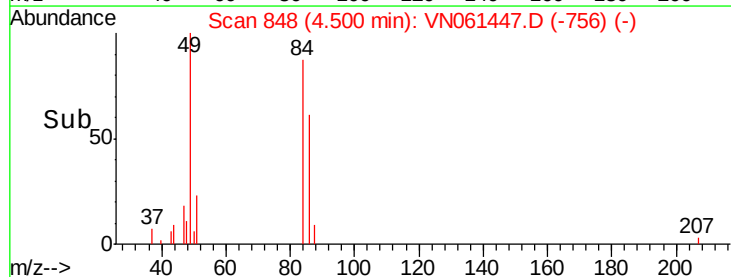
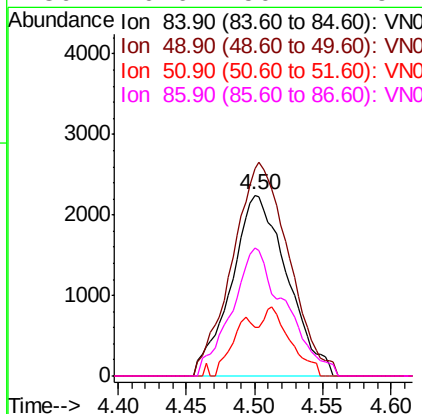
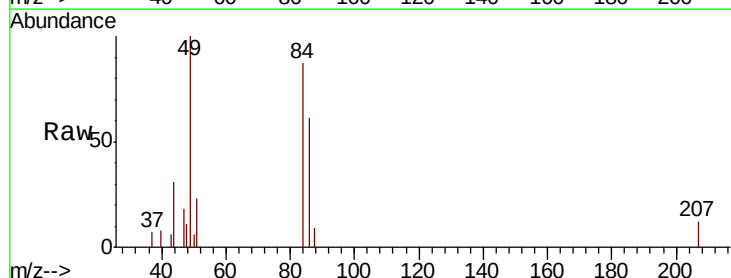
Instrument :
MSVOA_N
ClientSampleId :

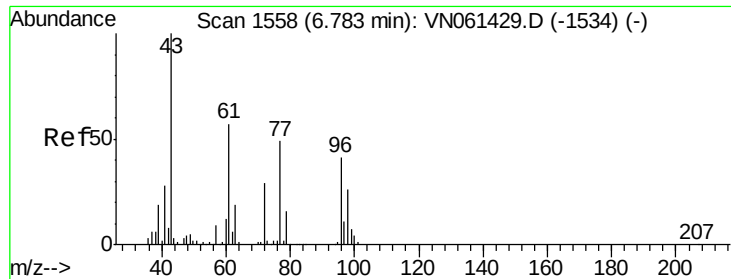
Tot Ion: 43 Resp: 29
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#20
Methylene Chloride
Concen: 2.007 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061447.D
Acq: 18 May 2020 20:10

Tgt Ion: 84 Resp: 6367
Ion Ratio Lower Upper
84 100
49 115.1 95.3 142.9
51 26.8 29.0 43.6#
86 70.6 50.2 75.2

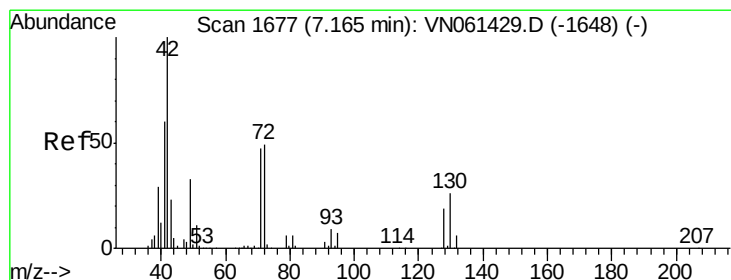
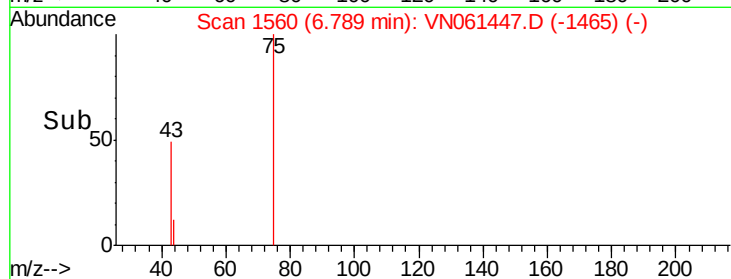
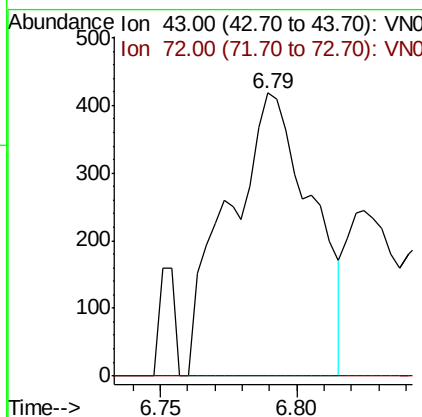
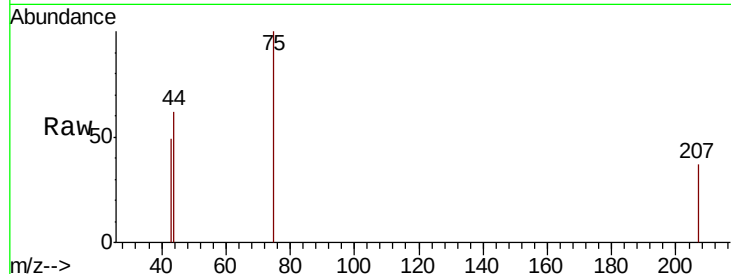




#25
2-Butanone
Concen: 0.505 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061447.D
Acq: 18 May 2020 20:10

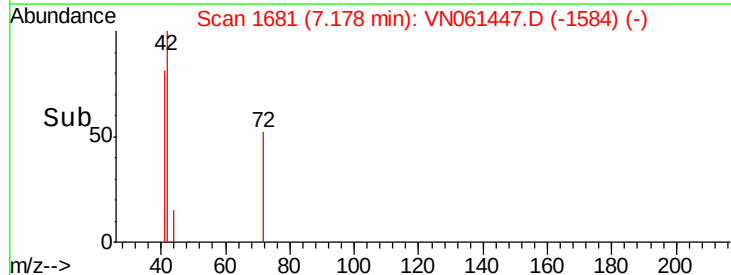
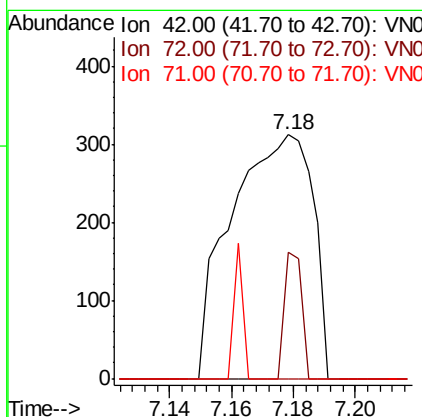
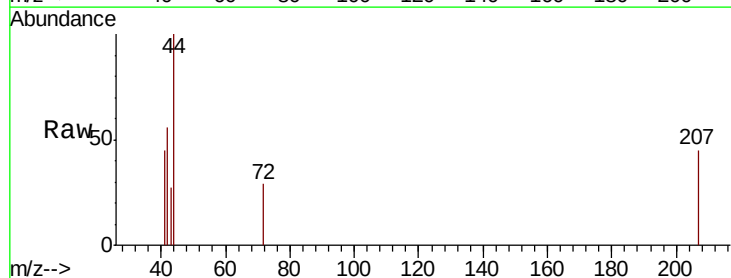
Instrument :
MSVOA_N
ClientSampled :

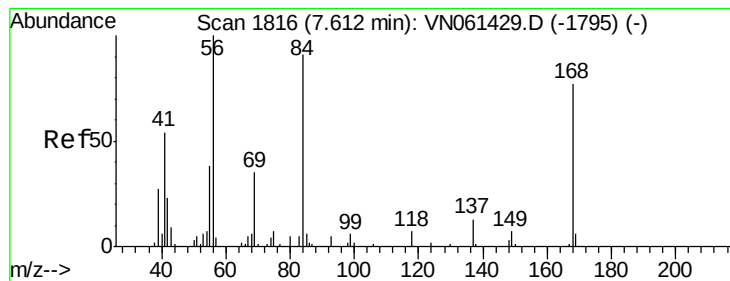
Tot Ion: 43 Resp: 887
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.491 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN061447.D
Acq: 18 May 2020 20:10

Tgt Ion: 42 Resp: 571
Ion Ratio Lower Upper
42 100
72 10.7 39.0 58.6#
71 5.8 36.9 55.3#





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

Instrument :

MSVOA_N

ClientSampled :

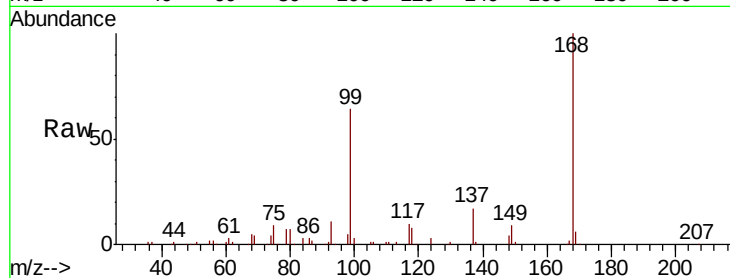
Tot Ion: 56 Resp: 6219

Ion Ratio Lower Upper

56 100

69 169.9 27.8 41.6#

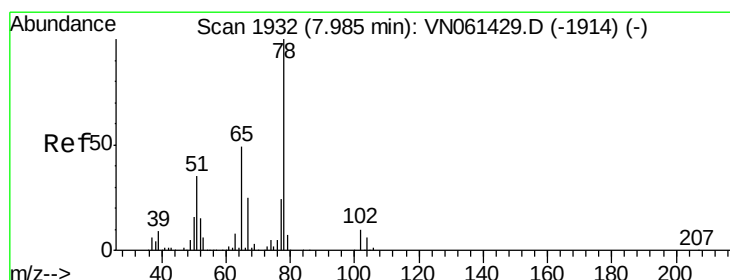
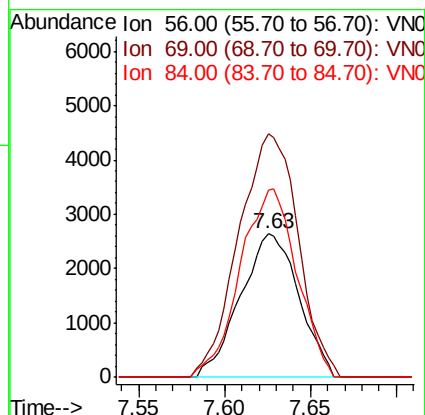
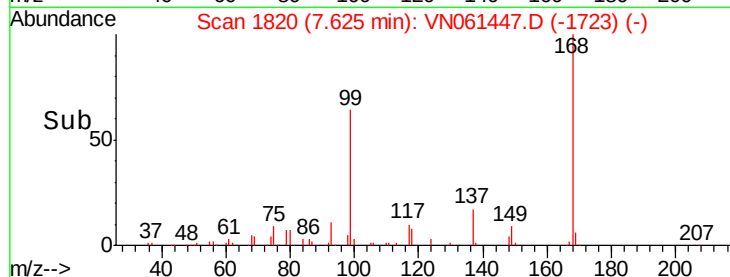
84 130.6 72.7 109.1#



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: 48.530 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061447.D

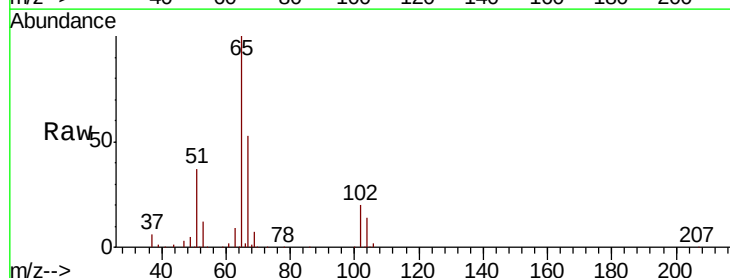
Acq: 18 May 2020 20:10

Tgt Ion: 65 Resp: 187323

Ion Ratio Lower Upper

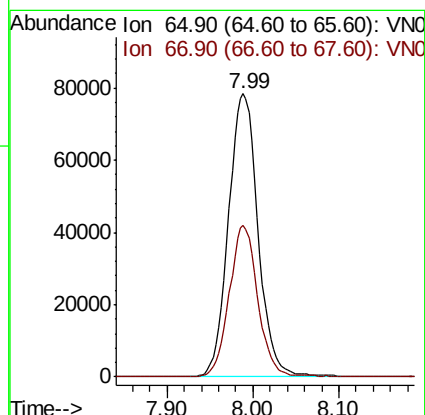
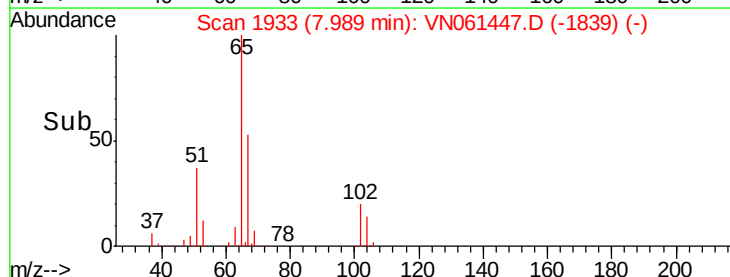
65 100

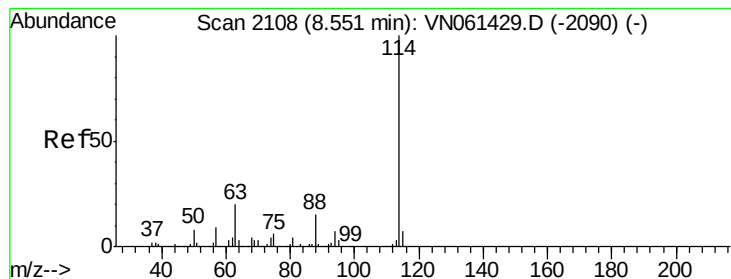
67 51.6 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

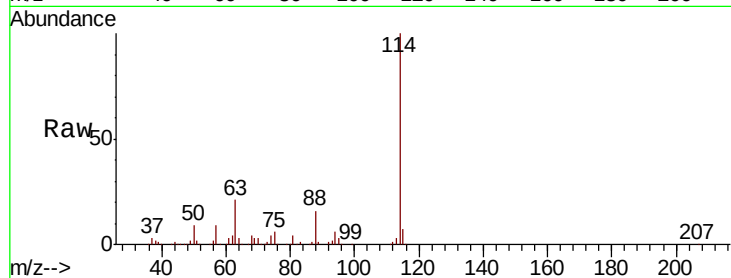
Tot Ion:114 Resp: 481111

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

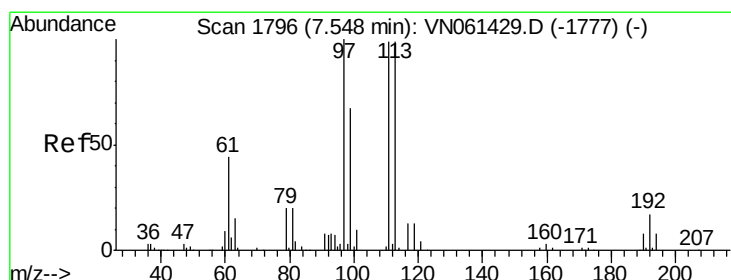
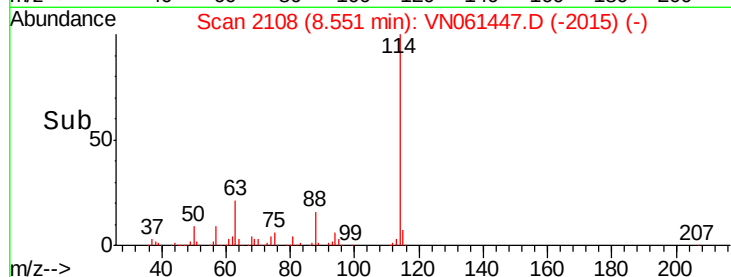
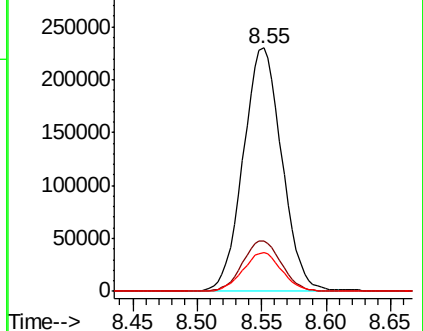
88 15.9 0.0 30.8



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: 54.371 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

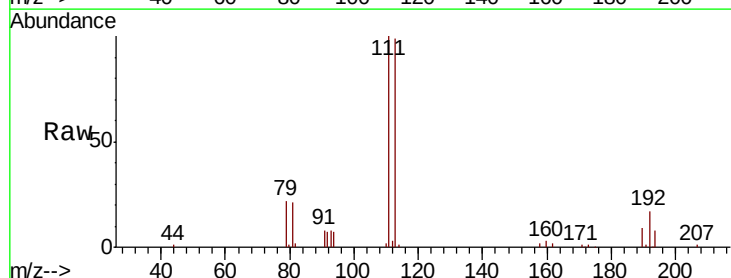
Tgt Ion:113 Resp: 137037

Ion Ratio Lower Upper

113 100

111 100.7 80.6 121.0

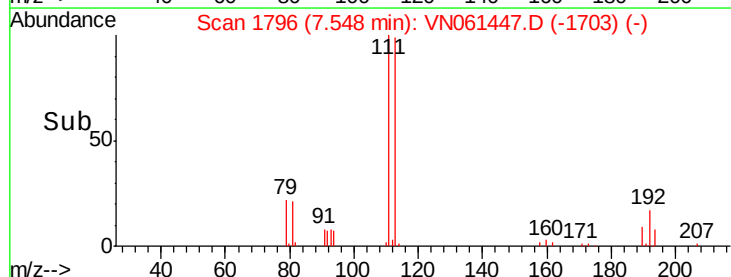
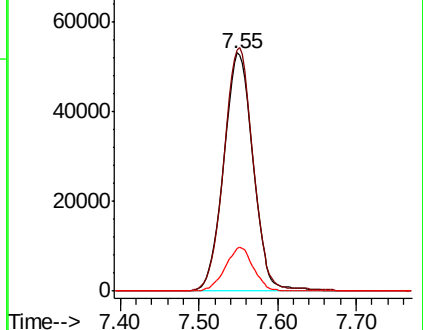
192 17.4 13.2 19.8

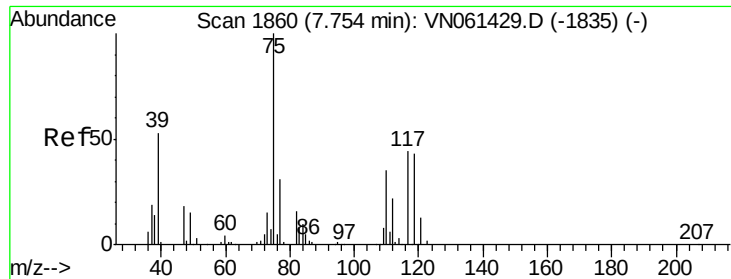


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

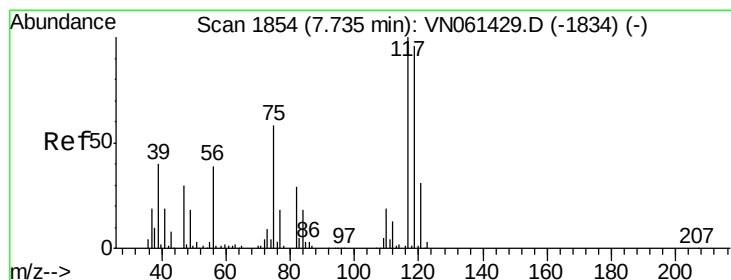
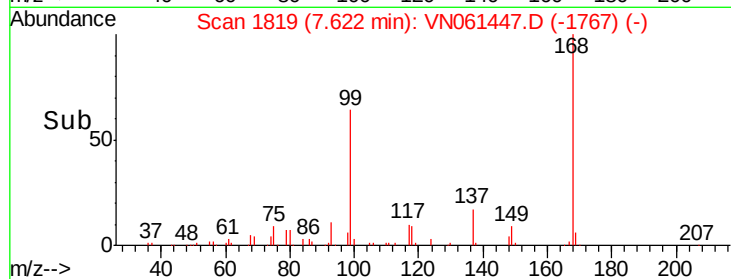
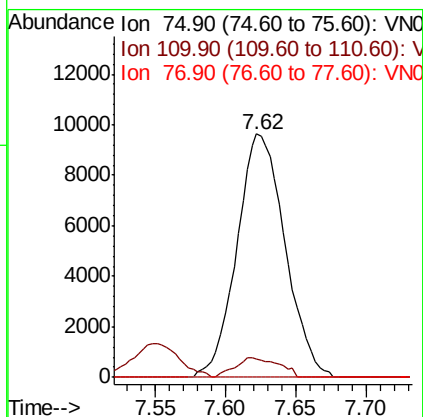
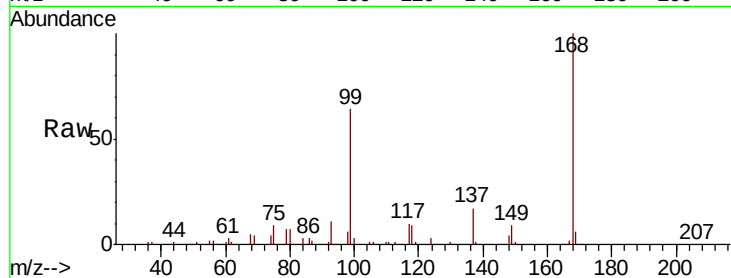




#36
 1,1-Dichloropropene
 Concen: 5.099 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061447.D
 Acq: 18 May 2020 20:10

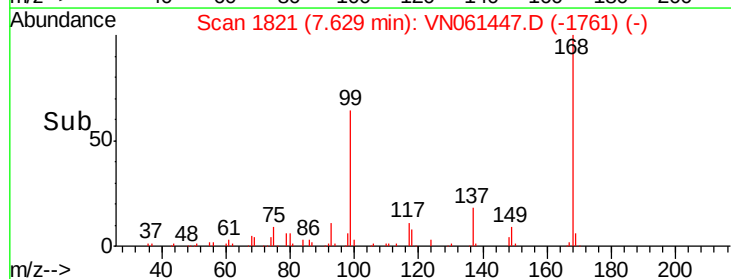
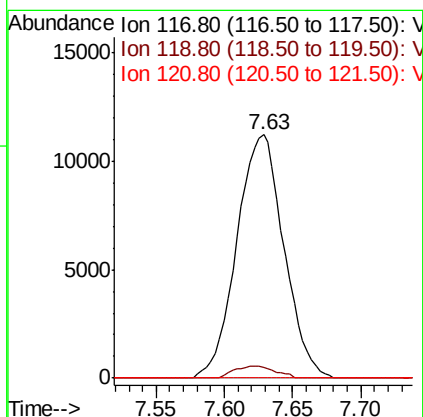
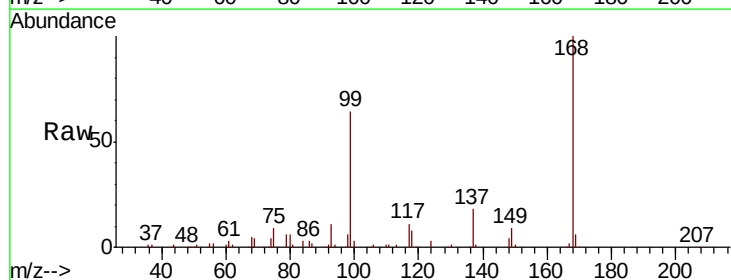
Instrument :
 MSVOA_N
 ClientSampled :

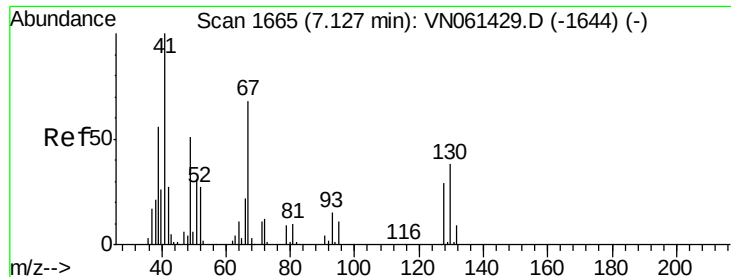
Tot Ion	75	Resp	22939
Ion Ratio	Lower	Upper	
75	100		
110	7.3	17.3	51.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.492 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN061447.D
 Acq: 18 May 2020 20:10

Tgt Ion	117	Resp	26890
Ion Ratio	Lower	Upper	
117	100		
119	4.4	77.0	115.6#
121	0.0	24.7	37.1#

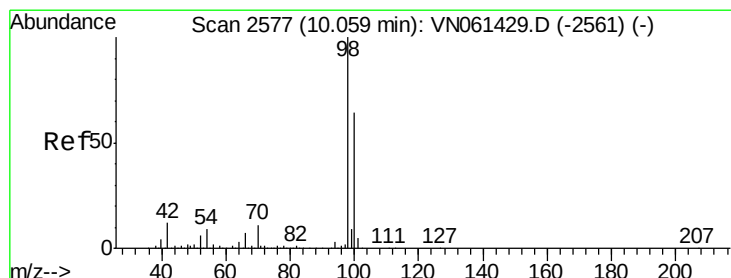
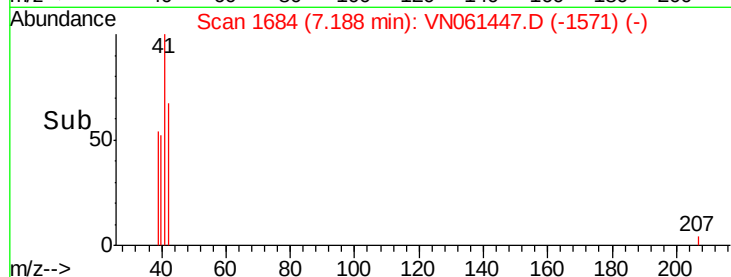
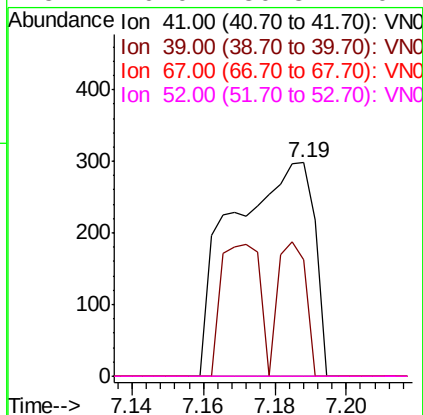
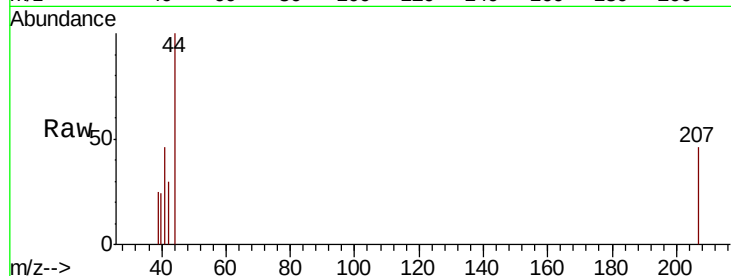




#41
Methacrylonitrile
Concen: 0.274 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.06 min
Lab File: VN061447.D
Acq: 18 May 2020 20:10

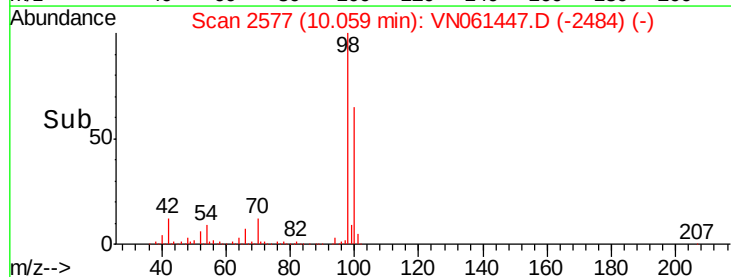
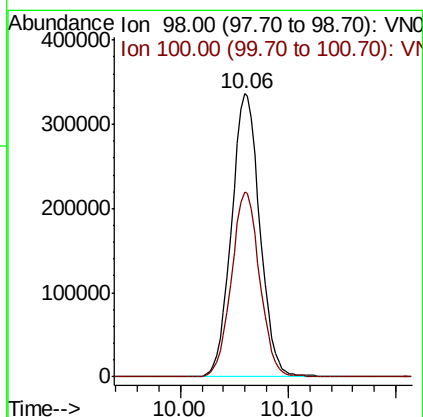
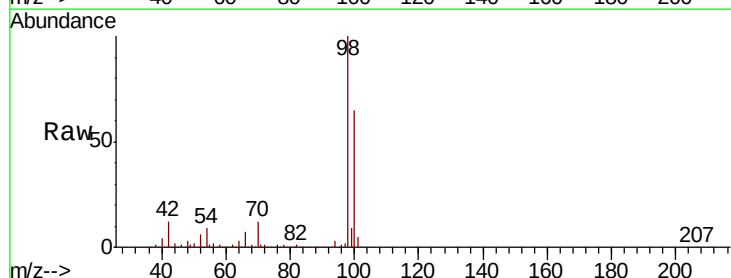
Instrument :
MSVOA_N
ClientSampleId :

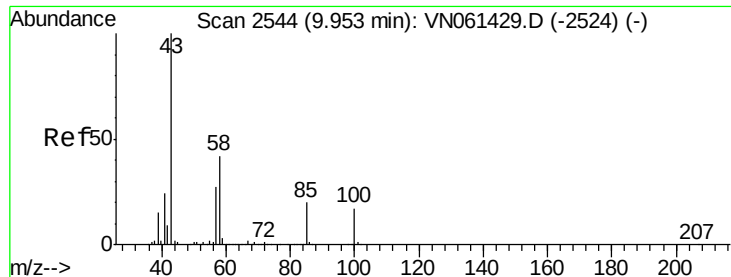
Tot Ion: 41 Resp: 472
Ion Ratio Lower Upper
41 100
39 21.2 48.3 72.5#
67 0.0 74.2 111.4#
52 0.0 30.8 46.2#



#50
Toluene-d8
Concen: 52.858 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061447.D
Acq: 18 May 2020 20:10

Tgt Ion: 98 Resp: 617920
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8

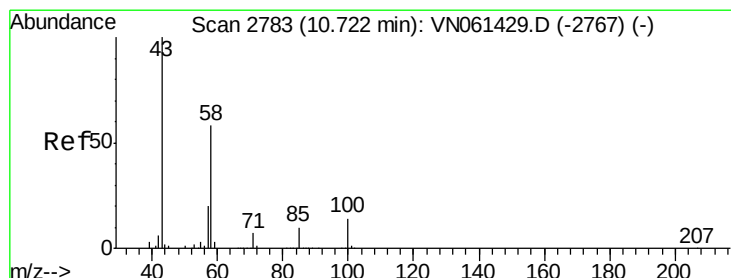
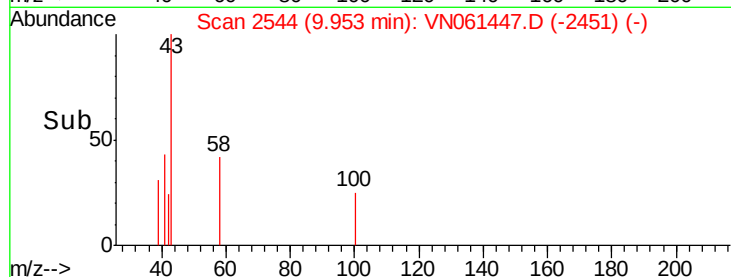
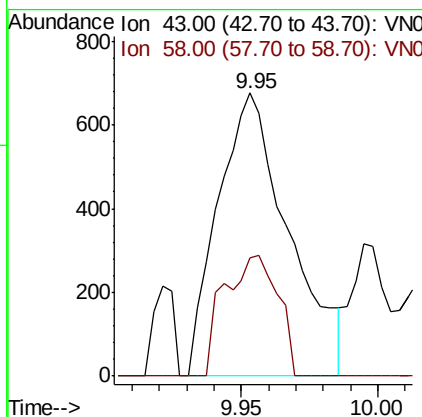
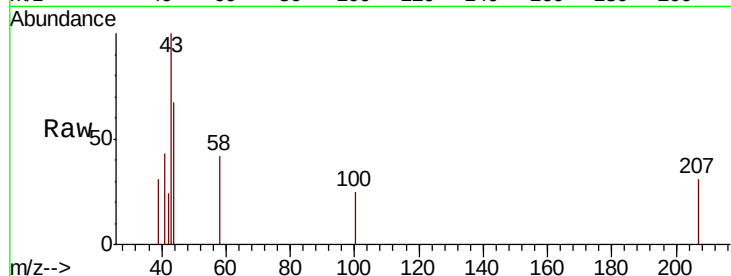




#51
 4-Methyl-2-Pentanone
 Concen: 0.314 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN061447.D
 Acq: 18 May 2020 20:10

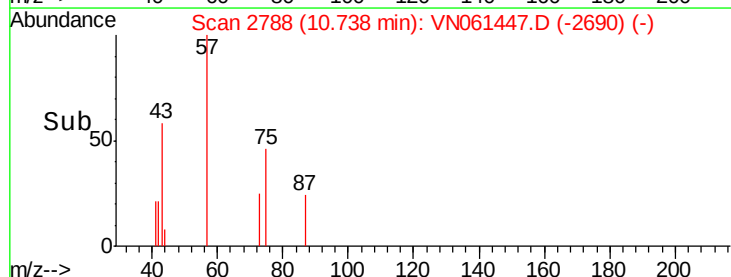
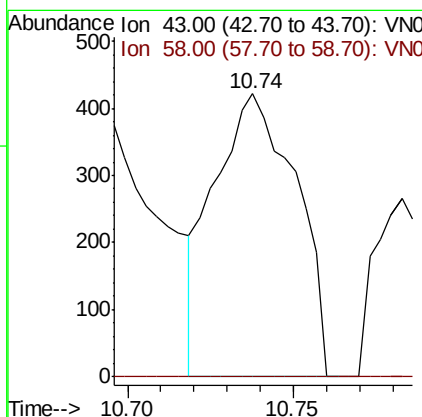
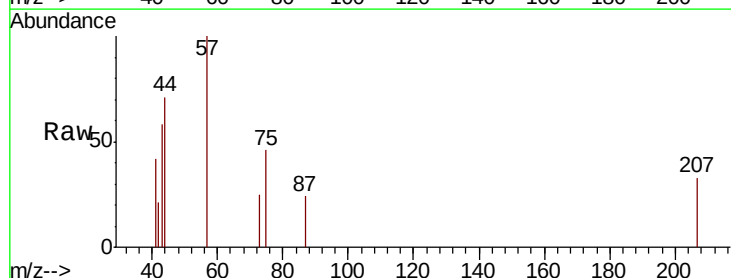
Instrument :
 MSVOA_N
 ClientSampleId :

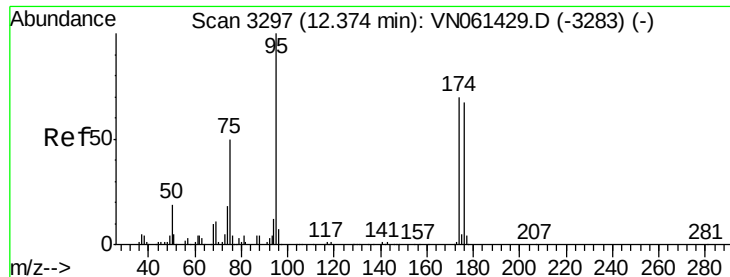
Tot Ion: 43 Resp: 1218
 Ion Ratio Lower Upper
 43 100
 58 32.2 33.4 50.2#



#59
 2-Hexanone
 Concen: 0.259 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061447.D
 Acq: 18 May 2020 20:10

Tgt Ion: 43 Resp: 727
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.2 87.6#

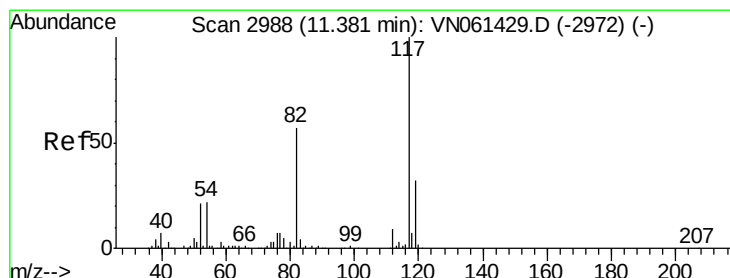
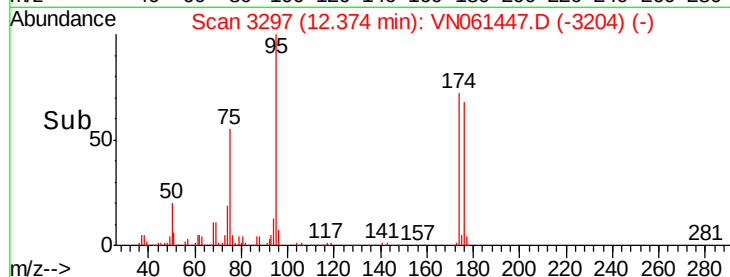
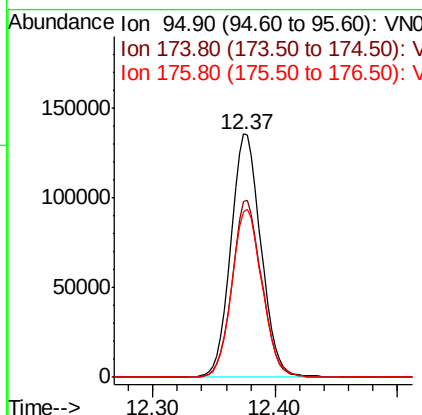
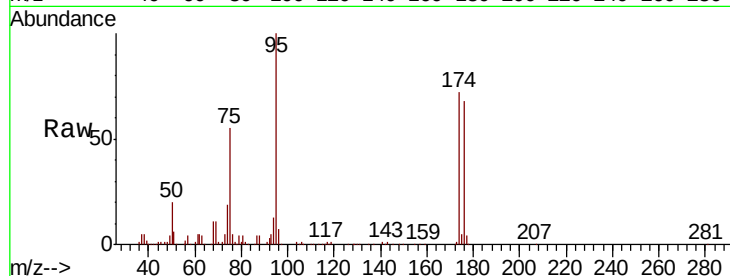




#62
 4-Bromofluorobenzene
 Concen: 53.561 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VN061447.D
 Acq: 18 May 2020 20:10

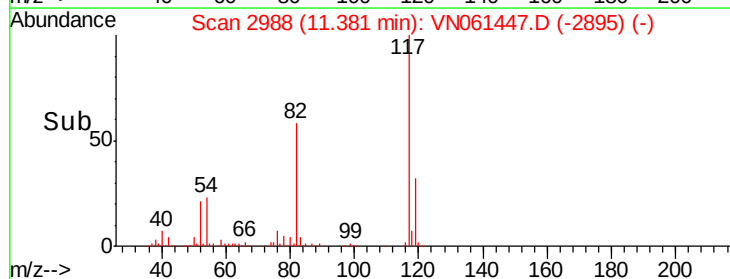
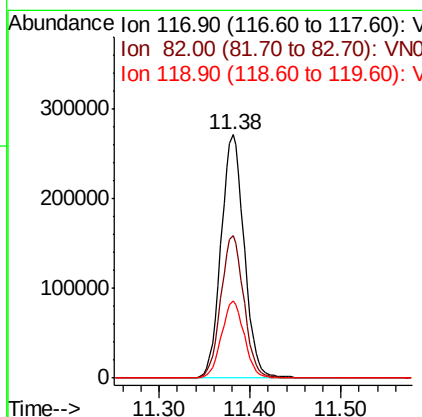
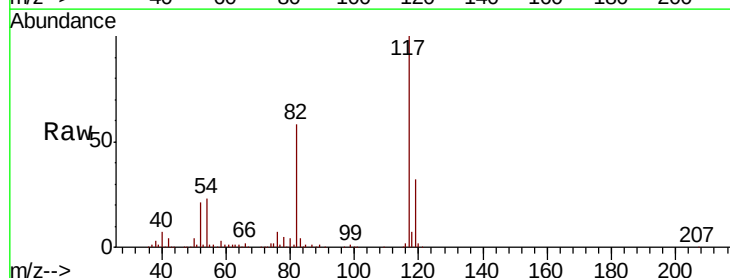
Instrument :
 MSVOA_N
 ClientSampled :

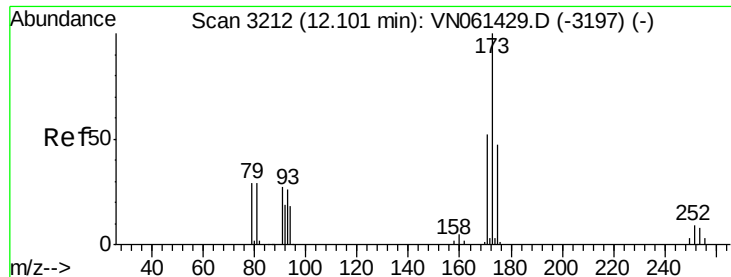
Tot Ion	95	Resp	233930
Ion Ratio	Lower	Upper	
95	100		
174	70.9	0.0	141.2
176	69.4	0.0	137.6



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. 0.00 min
 Lab File: VN061447.D
 Acq: 18 May 2020 20:10

Tgt Ion	117	Resp	480098
Ion Ratio	Lower	Upper	
117	100		
82	58.3	45.2	67.8
119	31.6	25.3	37.9





#71

Bromoform

Concen: 2.660 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

Instrument :

MSVOA_N

ClientSampled :

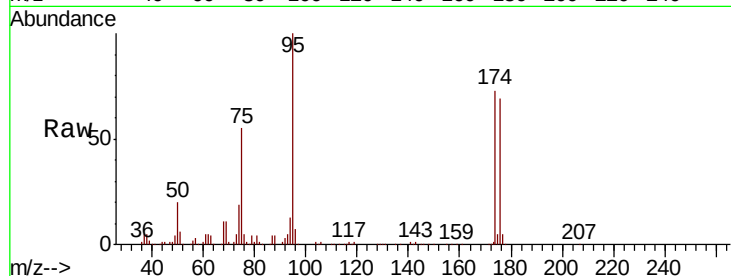
Tot Ion:173 Resp: 1821

Ion Ratio Lower Upper

173 100

175 593.1 23.9 71.8#

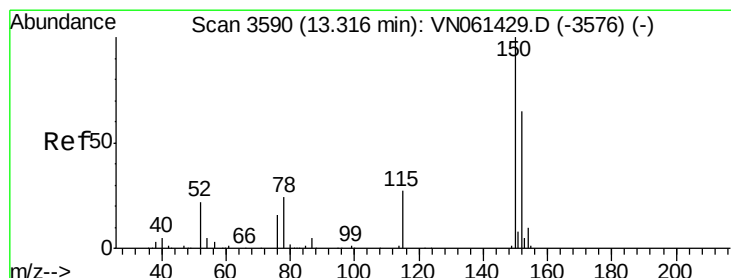
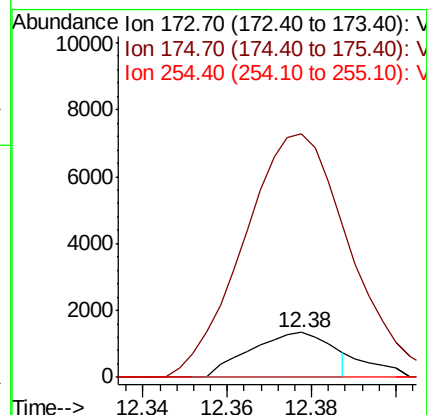
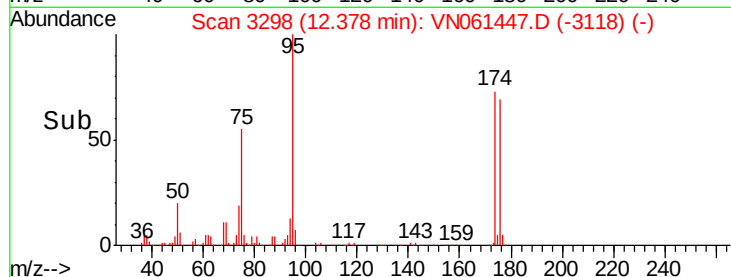
254 0.0 0.0 0.0



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: VN061447.D

Acq: 18 May 2020 20:10

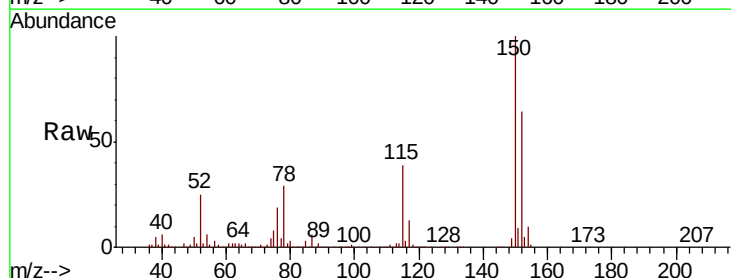
Tgt Ion:152 Resp: 205853

Ion Ratio Lower Upper

152 100

115 61.5 30.9 92.5

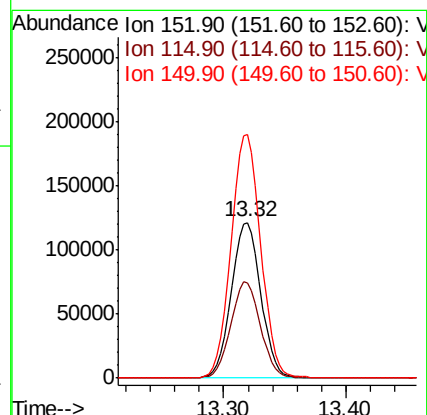
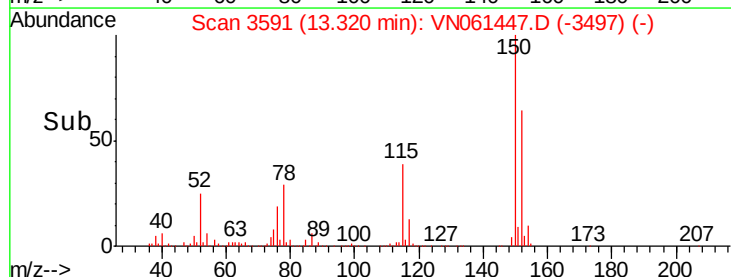
150 157.5 0.0 349.2

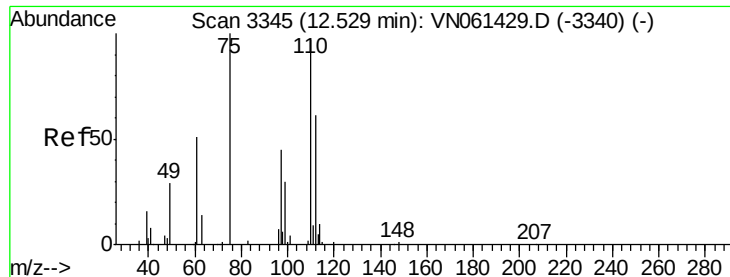


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.496 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

Instrument :

MSVOA_N

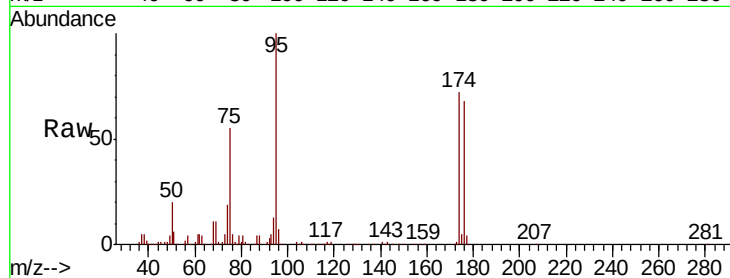
ClientSampleId :

Tot Ion: 75 Resp: 125871

Ion Ratio Lower Upper

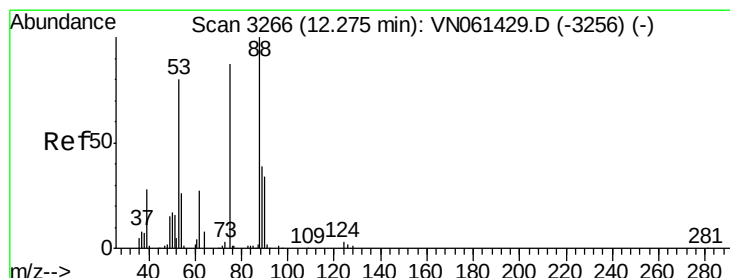
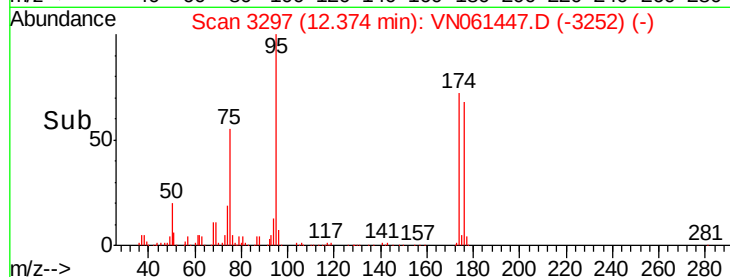
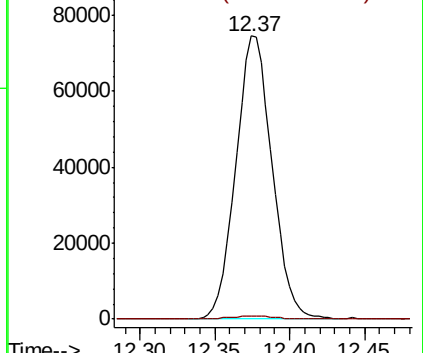
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 75.594 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

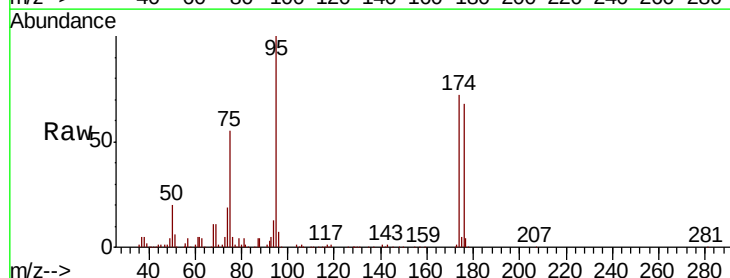
Tgt Ion: 75 Resp: 125871

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

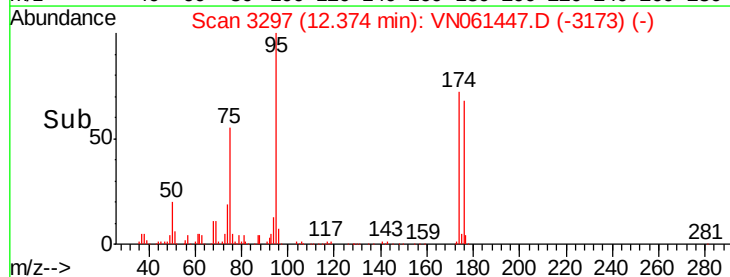
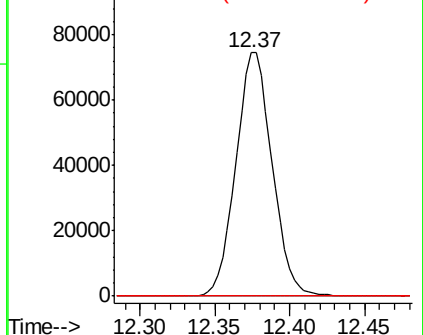
89 0.0 38.2 57.4#

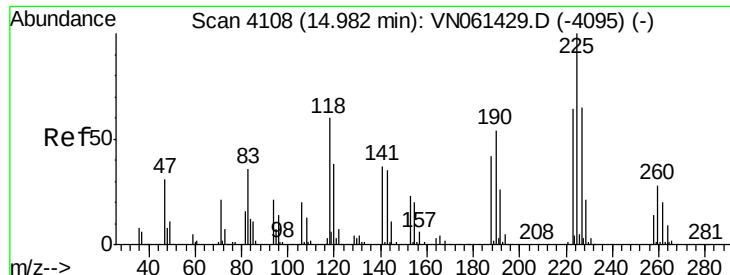


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#94

Hexachlorobutadiene

Concen: 0.202 ug/l

RT: 14.99 min Scan# 4110

Delta R.T. 0.01 min

Lab File: VN061447.D

Acq: 18 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

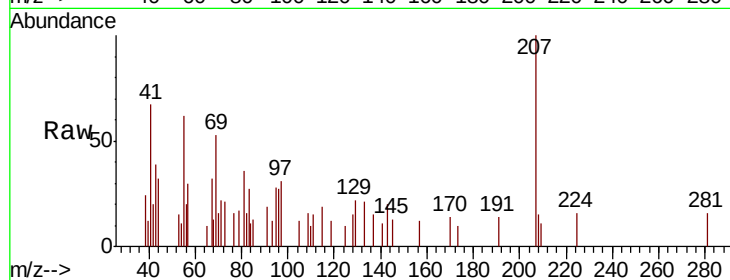
Tot Ion: 225 Resp: 307

Ion Ratio Lower Upper

225 100

223 0.0 31.9 95.7#

227 0.0 31.5 94.5#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

