

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060420\
 Data File : VN061655.D
 Acq On : 4 Jun 2020 16:01
 Operator : JC/MD
 Sample : L2871-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 05 07:29:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	296687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	514400	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	520532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	242322	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	171467	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
35) Dibromofluoromethane	7.55	113	137895	52.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.68%	
50) Toluene-d8	10.06	98	621797	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
62) 4-Bromofluorobenzene	12.38	95	236917	53.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.40%	

Target Compounds

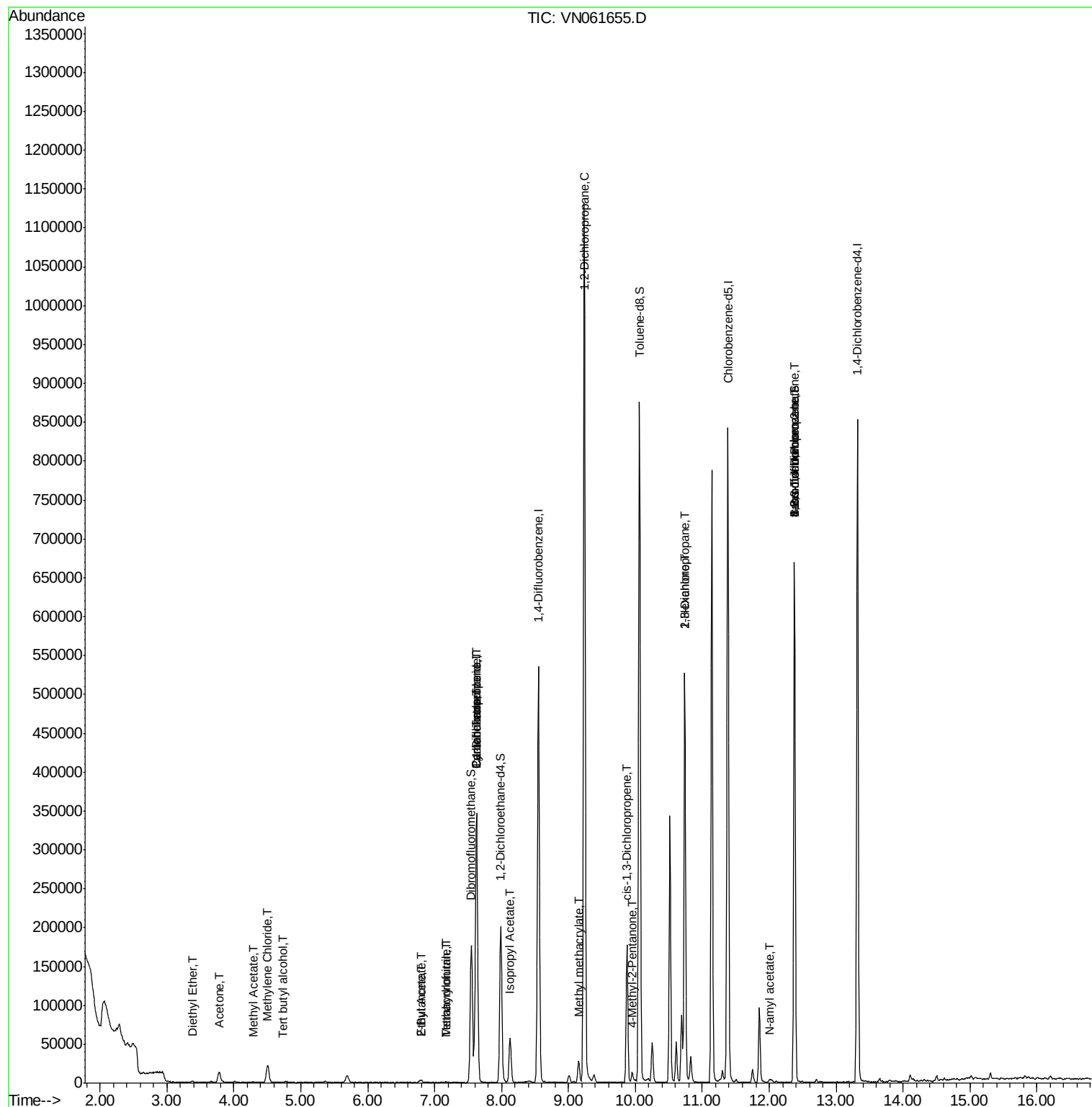
						Qvalue
8) Diethyl Ether	3.38	74	758	0.388	ug/l	100
11) Tert butyl alcohol	4.74	59	221	0.470	ug/l #	72
16) Acetone	3.78	43	23127	17.985	ug/l	96
18) Methyl Acetate	4.29	43	1796	0.561	ug/l #	63
20) Methylene Chloride	4.50	84	9447	1.244	ug/l	95
25) 2-Butanone	6.80	43	3907	2.332	ug/l #	87
29) Tetrahydrofuran	7.18	42	964	0.873	ug/l #	56
31) Cyclohexane	7.62	56	5359	1.076	ug/l #	7
36) 1,1-Dichloropropene	7.63	75	20707	4.547	ug/l #	48
37) Ethyl Acetate	6.80	43	3907	1.065	ug/l #	66
38) Carbon Tetrachloride	7.63	117	28647	6.522	ug/l #	16
41) Methacrylonitrile	7.17	41	374	0.223	ug/l #	18
43) Isopropyl Acetate	8.13	43	65150	9.873	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1557	0.467	ug/l #	44
48) Methyl methacrylate	9.15	41	3349	1.128	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	7444	2.002	ug/l	100
54) cis-1,3-Dichloropropene	9.88	75	36916	6.287	ug/l #	60
57) 1,3-Dichloropropane	10.74	76	6370	1.090	ug/l #	42
59) 2-Hexanone	10.74	43	67889	25.421	ug/l #	48
71) Bromoform	12.38	173	1861	0.599	ug/l #	1
74) N-amyl acetate	12.00	43	1461	0.262	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	115363	26.181	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	115363	66.952	ug/l #	15

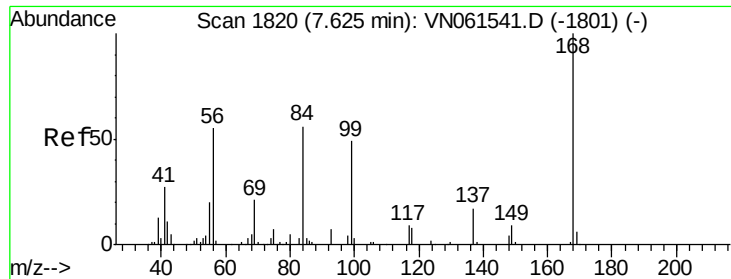
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061655.D

Acq: 4 Jun 2020 16:01

Instrument :

MSVOA_N

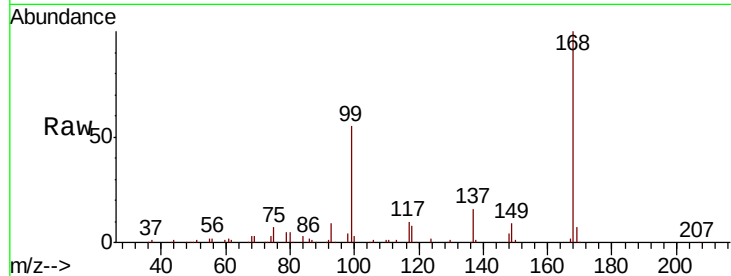
ClientSampled :

Tot Ion:168 Resp: 296687

Ion Ratio Lower Upper

168 100

99 54.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

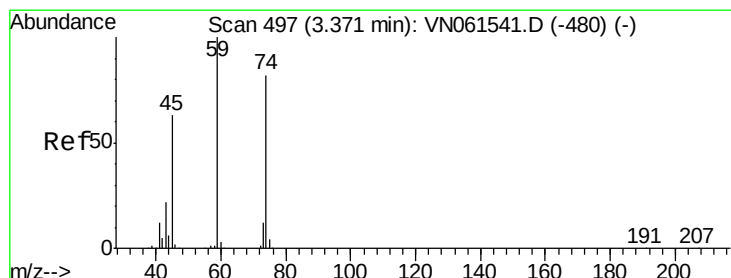
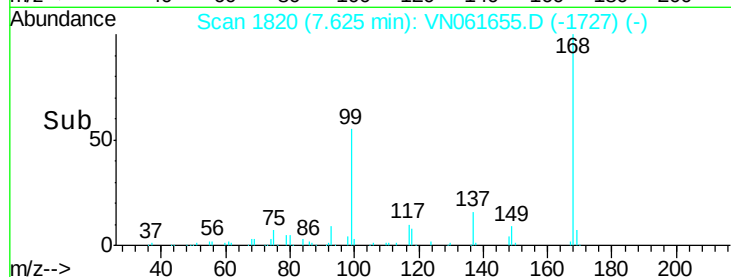
7.63

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#8

Diethyl Ether

Concen: 0.388 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN061655.D

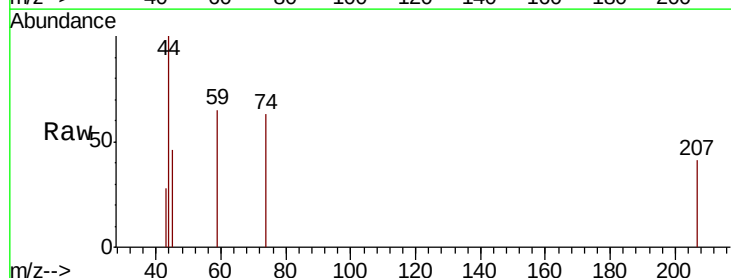
Acq: 4 Jun 2020 16:01

Tgt Ion: 74 Resp: 758

Ion Ratio Lower Upper

74 100

45 80.1 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.38

500

400

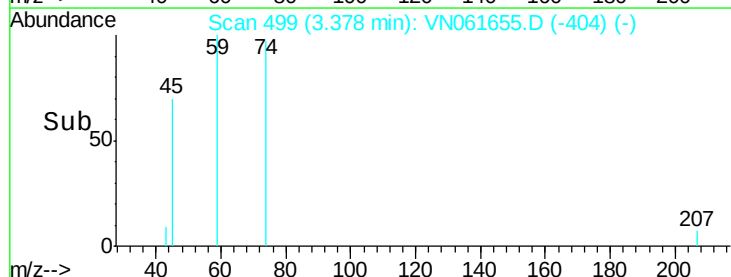
300

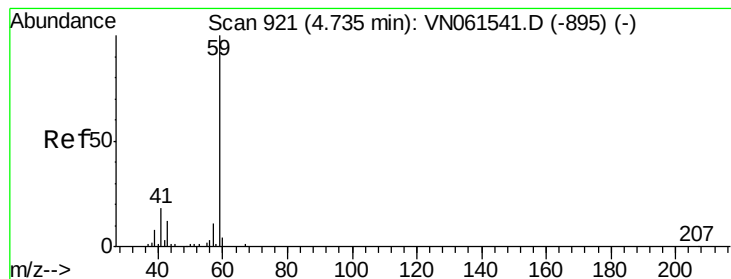
200

100

0

Time--> 3.34 3.36 3.38 3.40



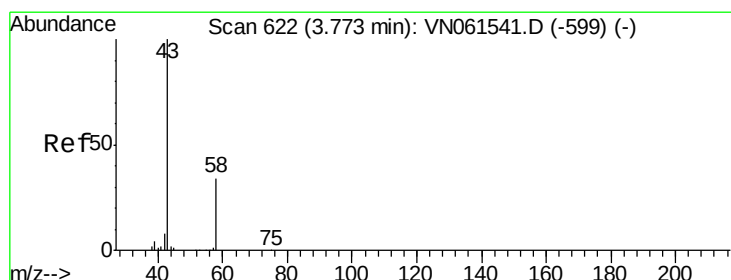
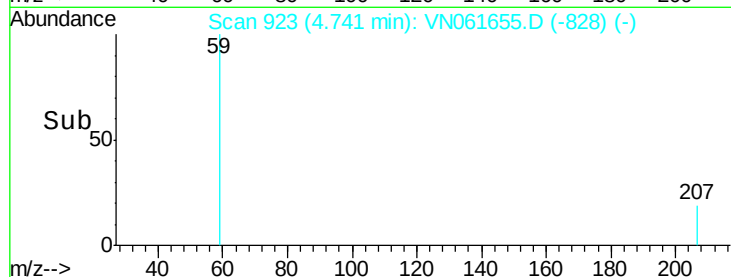
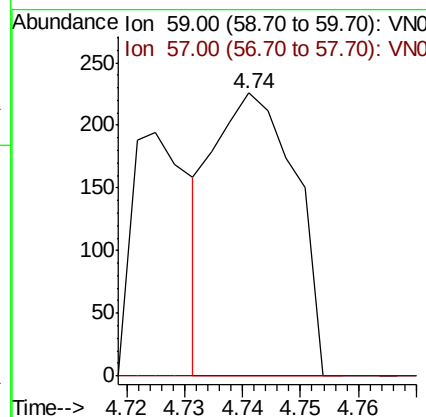
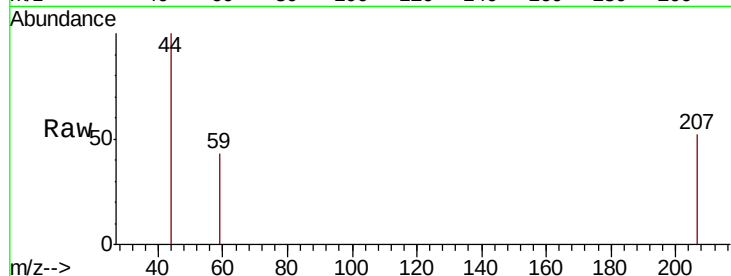


#11

Tert butyl alcohol
 Concen: 0.470 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. 0.01 min
 Lab File: VN061655.D
 Acq: 4 Jun 2020 16:01

Instrument :
 MSVOA_N
 ClientSampled :

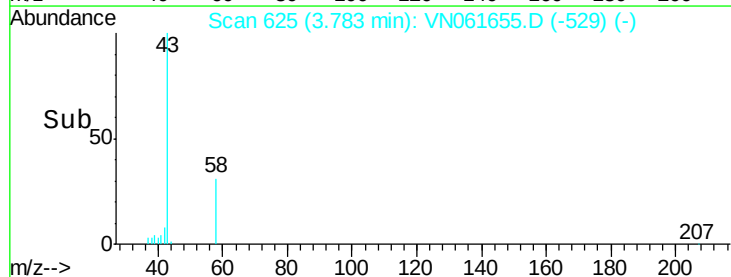
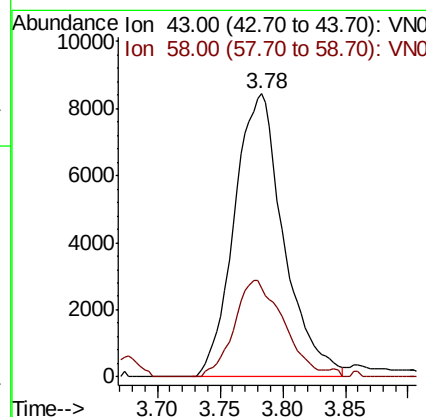
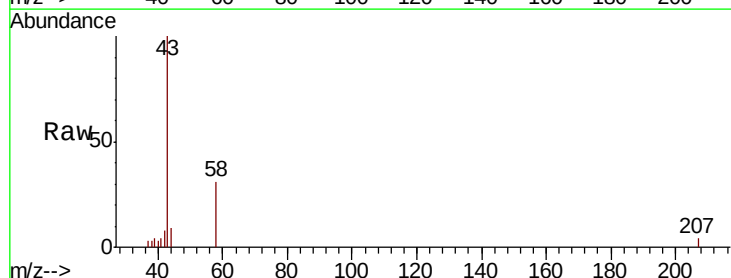
Tot Ion: 59 Resp: 221
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

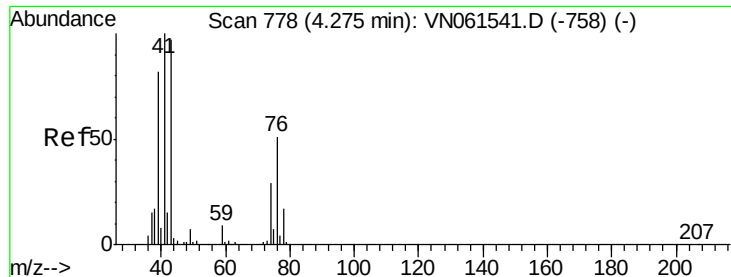


#16

Acetone
 Concen: 17.985 ug/l
 RT: 3.78 min Scan# 625
 Delta R.T. 0.01 min
 Lab File: VN061655.D
 Acq: 4 Jun 2020 16:01

Tgt Ion: 43 Resp: 23127
 Ion Ratio Lower Upper
 43 100
 58 31.5 27.2 40.8

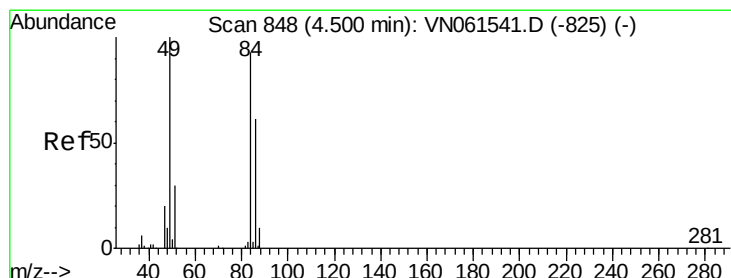
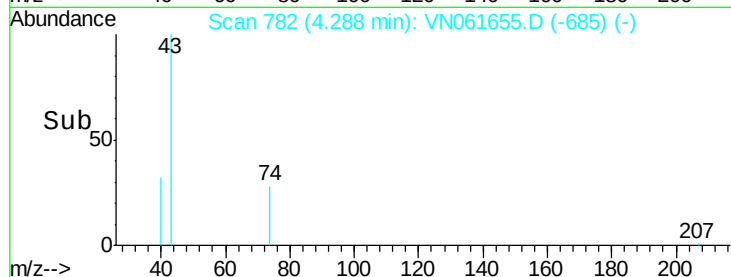
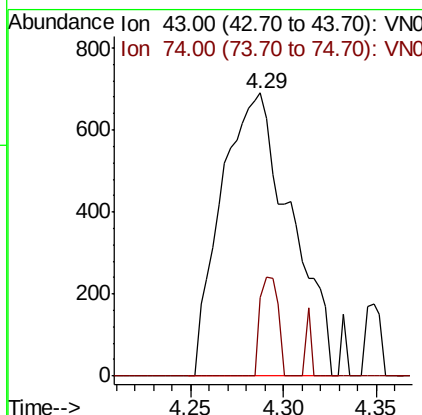
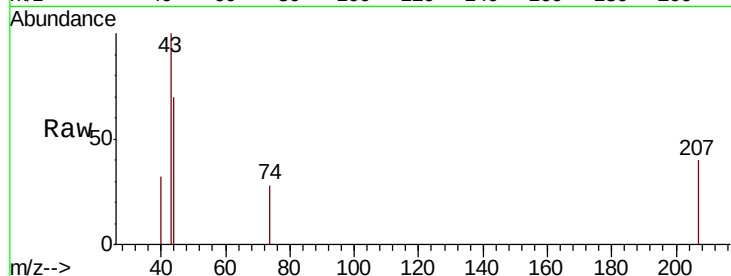




#18
Methvl Acetate
Concen: 0.561 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

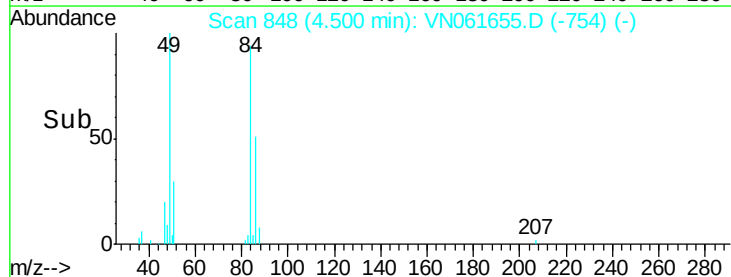
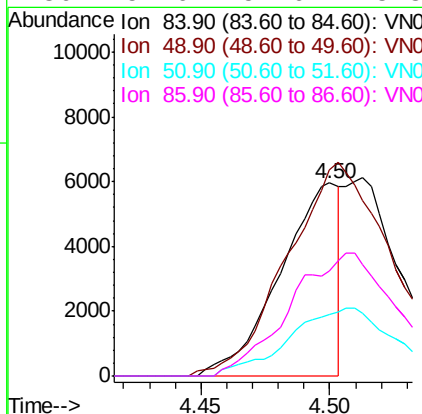
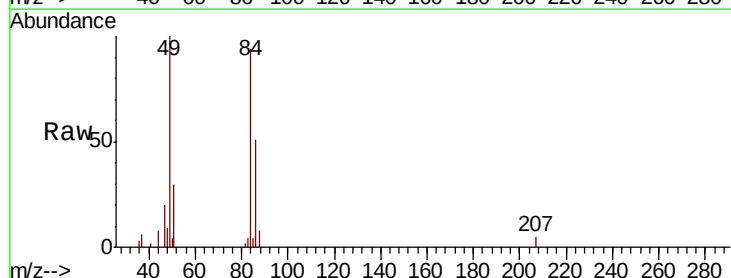
Instrument :
MSVOA_N
ClientSampleId :

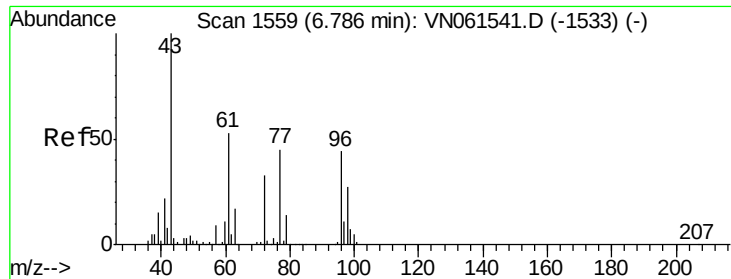
Tot Ion: 43 Resp: 1796
Ion Ratio Lower Upper
43 100
74 9.1 23.2 34.8#



#20
Methylene Chloride
Concen: 1.244 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

Tgt Ion: 84 Resp: 9447
Ion Ratio Lower Upper
84 100
49 106.9 85.8 128.8
51 31.7 26.2 39.2
86 54.6 52.6 78.8

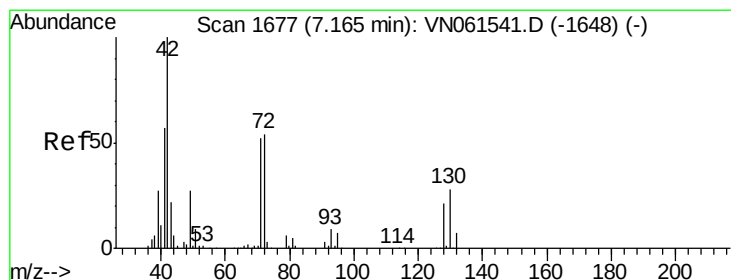
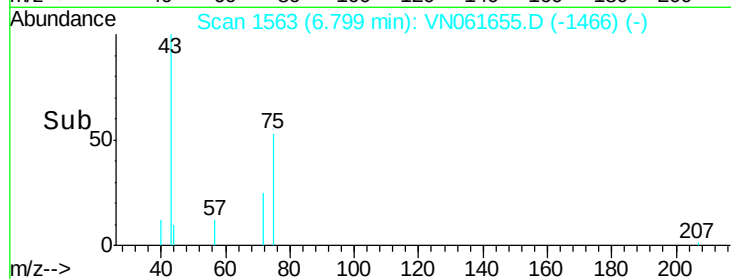
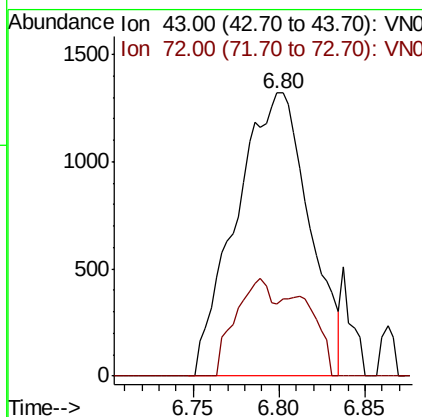
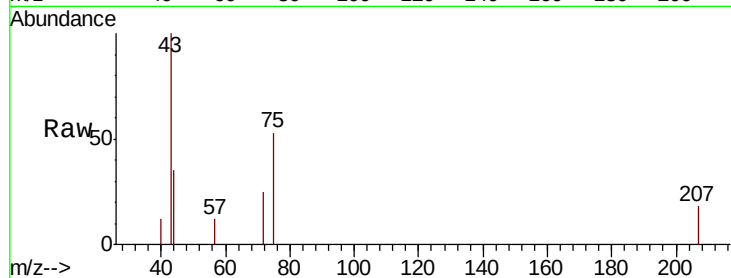




#25
2-Butanone
Concen: 2.332 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

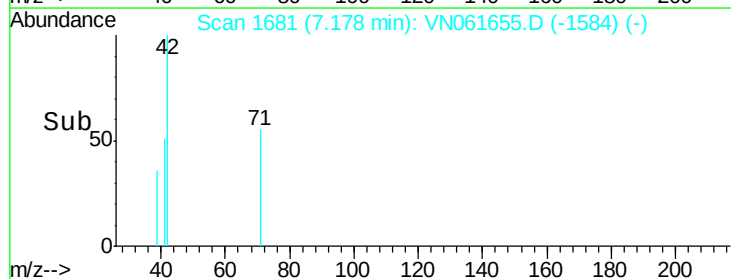
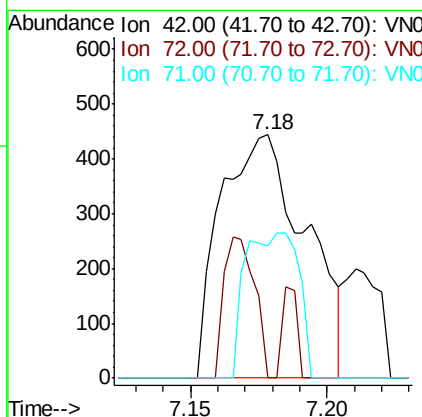
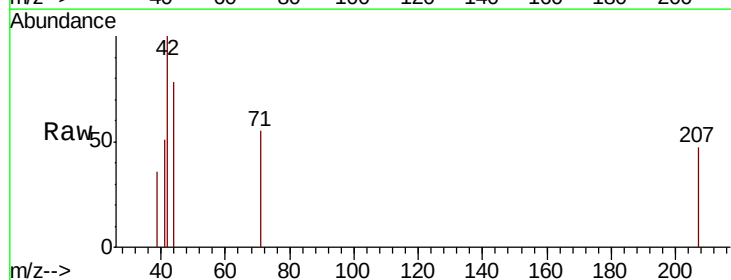
Instrument :
MSVOA_N
ClientSampleId :

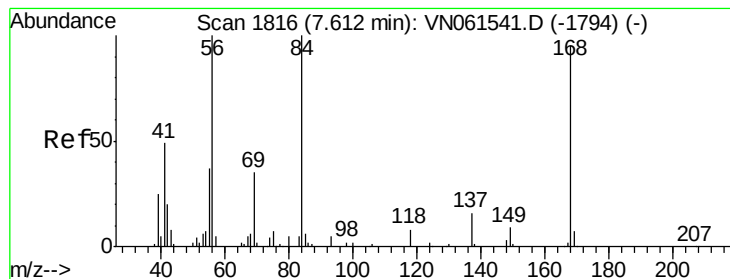
Tot Ion: 43 Resp: 3907
Ion Ratio Lower Upper
43 100
72 25.4 26.0 39.0#



#29
Tetrahydrofuran
Concen: 0.873 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

Tgt Ion: 42 Resp: 964
Ion Ratio Lower Upper
42 100
72 6.5 43.6 65.4#
71 37.4 41.2 61.8#





#31

Cyclohexane

Concen: 1.076 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061655.D

Acq: 4 Jun 2020 16:01

Instrument :

MSVOA_N

ClientSampled :

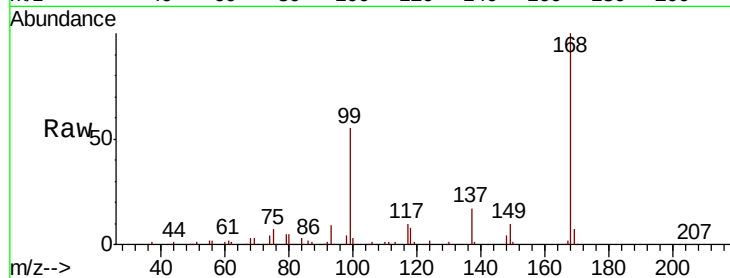
Tot Ion: 56 Resp: 5359

Ion Ratio Lower Upper

56 100

69 162.2 27.8 41.8#

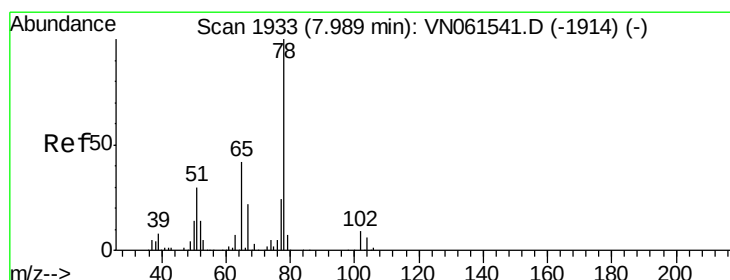
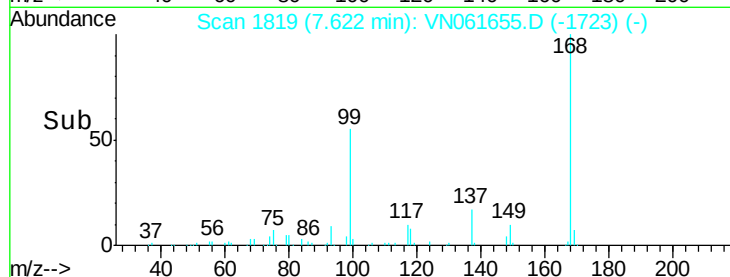
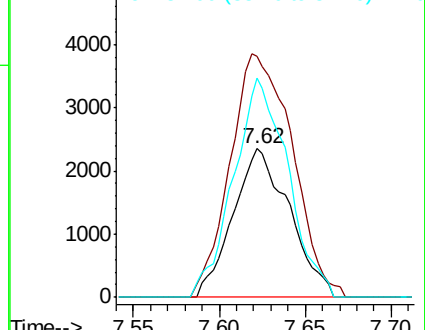
84 148.2 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061655.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061655.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061655.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.508 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061655.D

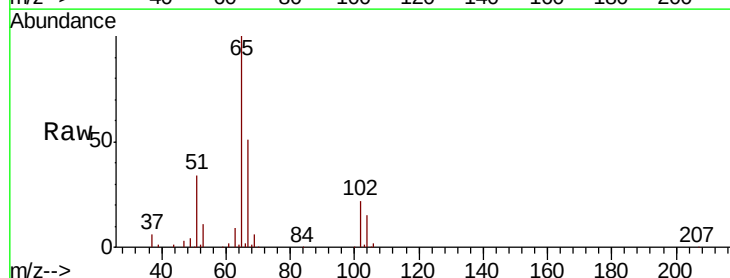
Acq: 4 Jun 2020 16:01

Tgt Ion: 65 Resp: 171467

Ion Ratio Lower Upper

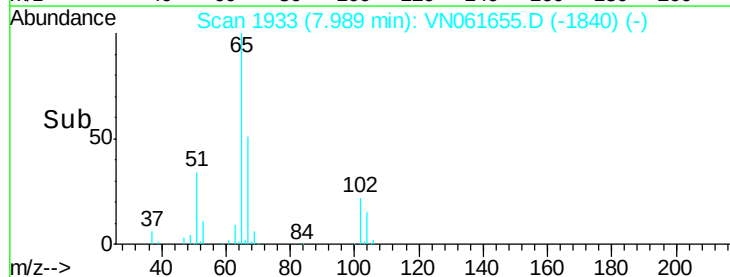
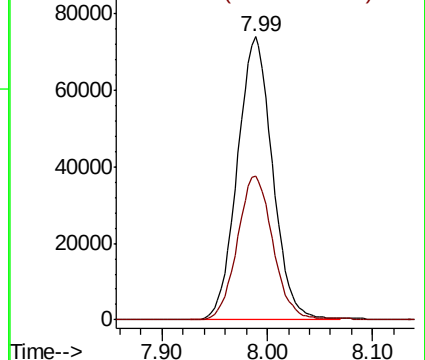
65 100

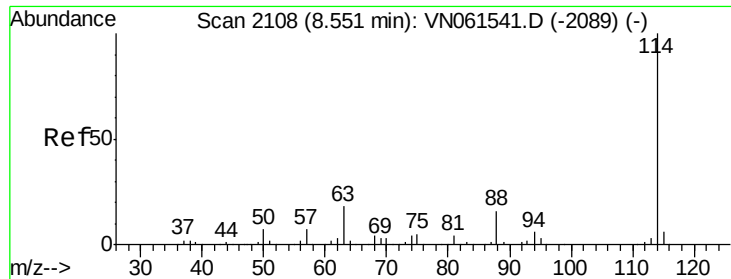
67 51.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061655.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061655.D (-1840) (-)

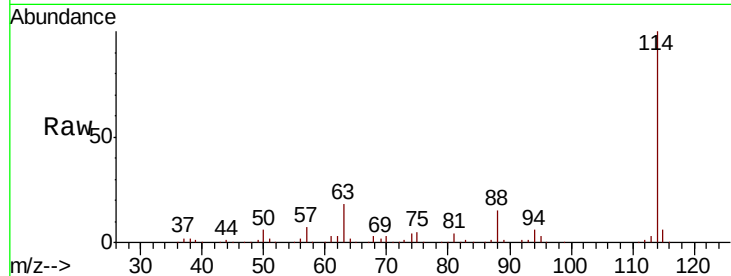




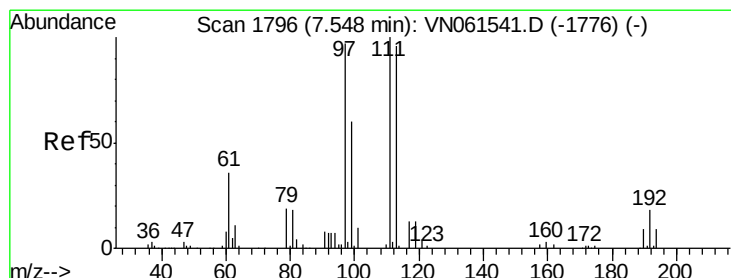
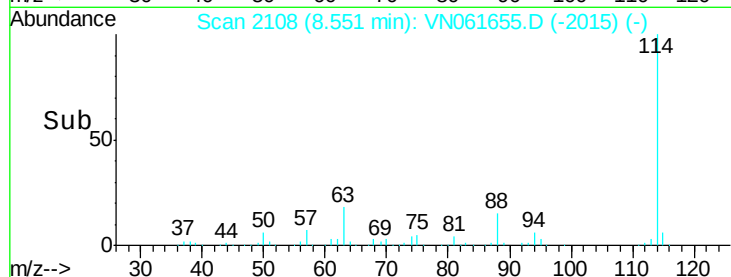
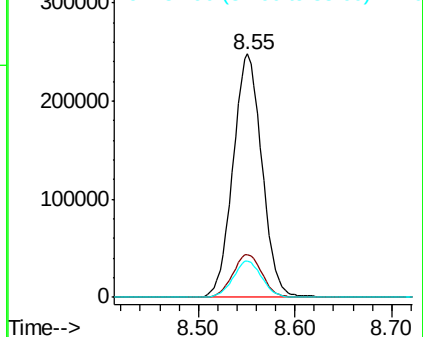
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061655.D
 Acq: 4 Jun 2020 16:01

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 514400
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 35.8
 88 15.1 0.0 31.0

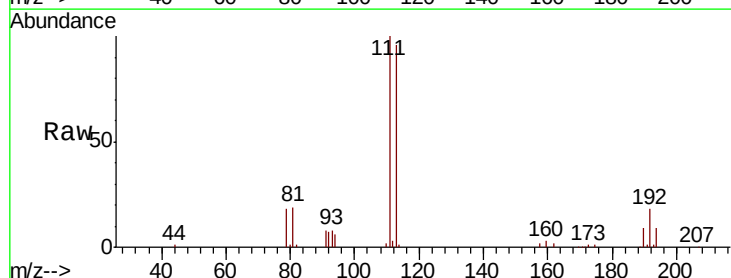


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

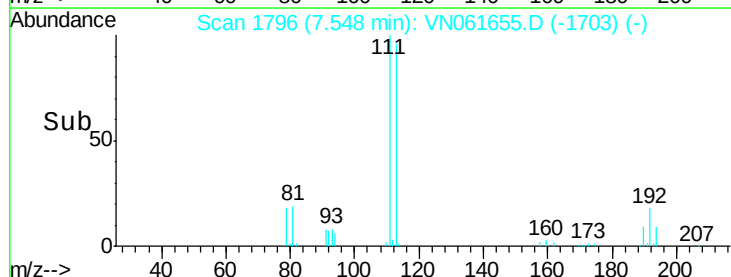
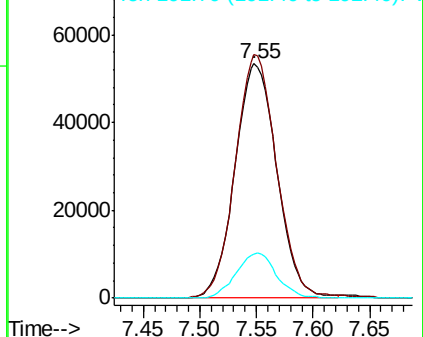


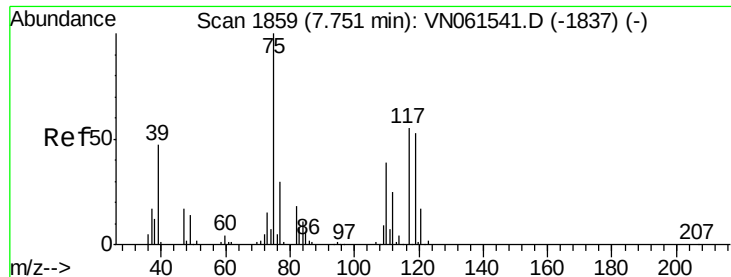
#35
 Dibromofluoromethane
 Concen: 52.844 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061655.D
 Acq: 4 Jun 2020 16:01

Tgt Ion:113 Resp: 137895
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.4 125.0
 192 18.5 15.4 23.2



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

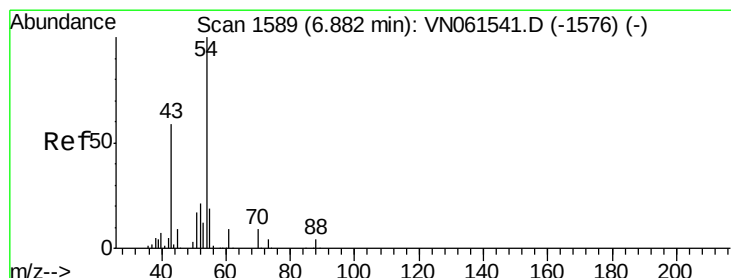
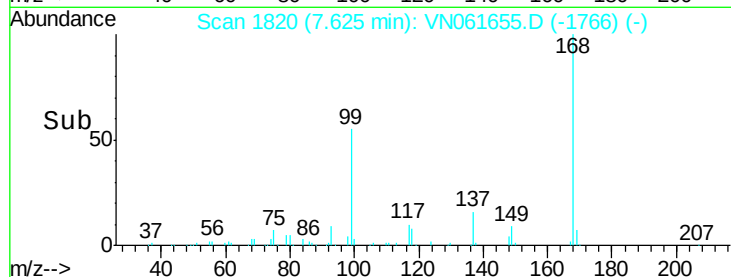
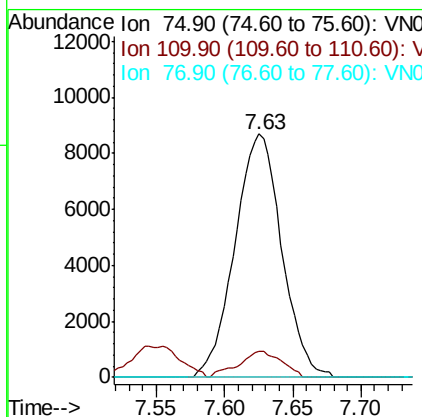
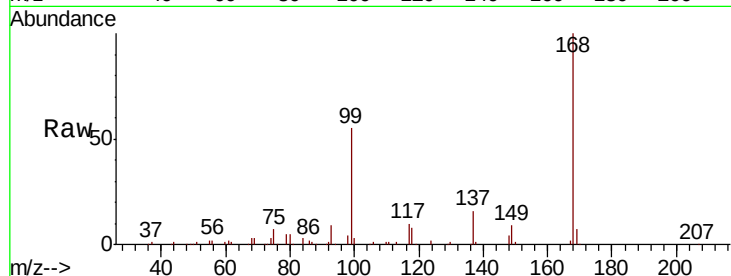




#36
 1,1-Dichloropropene
 Concen: 4.547 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061655.D
 Acq: 4 Jun 2020 16:01

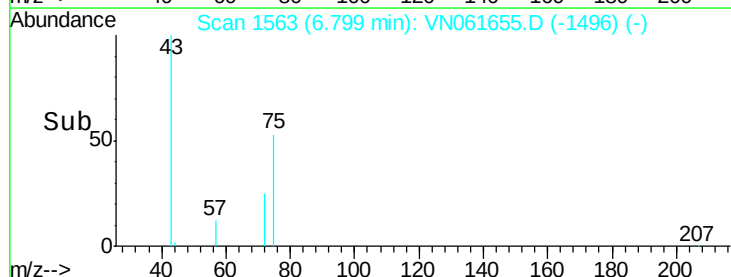
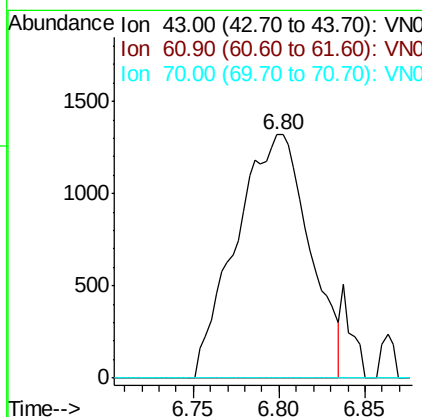
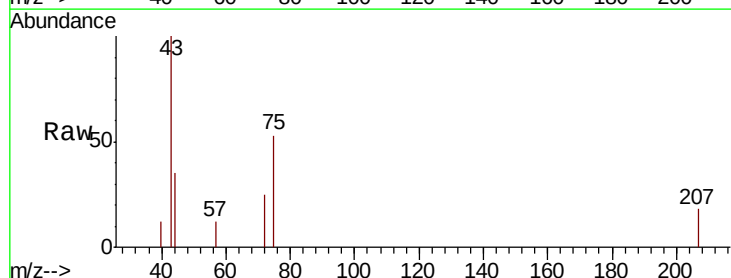
Instrument :
 MSVOA_N
 ClientSampled :

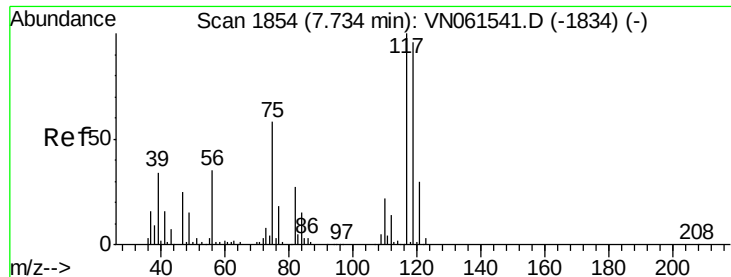
Tot Ion	75	Resp	20707
Ion Ratio	100	Lower	Upper
75	100		
110	9.8	19.5	58.5#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 1.065 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.08 min
 Lab File: VN061655.D
 Acq: 4 Jun 2020 16:01

Tgt Ion	43	Resp	3907
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	0.0	12.2	18.4#
70	0.0	9.4	14.2#





#38

Carbon Tetrachloride

Concen: 6.522 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN061655.D

Acq: 4 Jun 2020 16:01

Instrument :

MSVOA_N

ClientSampleId :

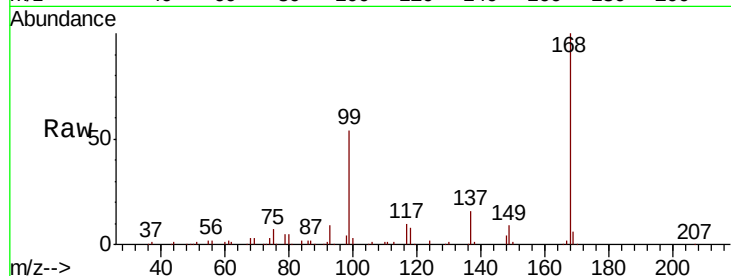
Tot Ion:117 Resp: 28647

Ion Ratio Lower Upper

117 100

119 4.5 76.5 114.7#

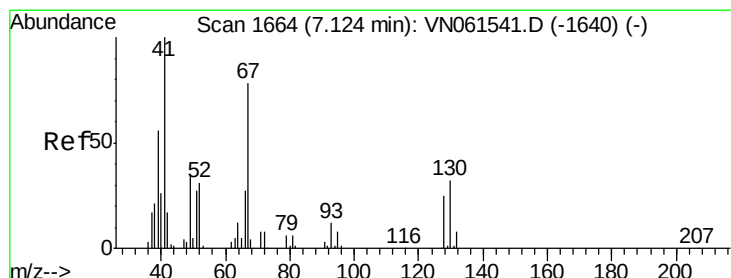
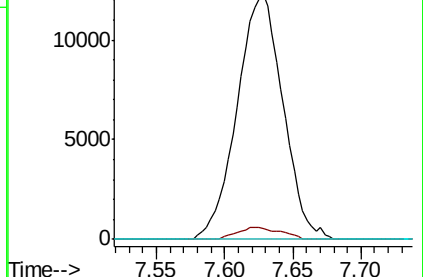
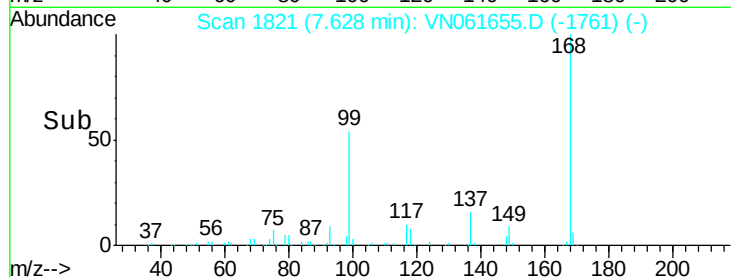
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.223 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. 0.04 min

Lab File: VN061655.D

Acq: 4 Jun 2020 16:01

Tgt Ion: 41 Resp: 374

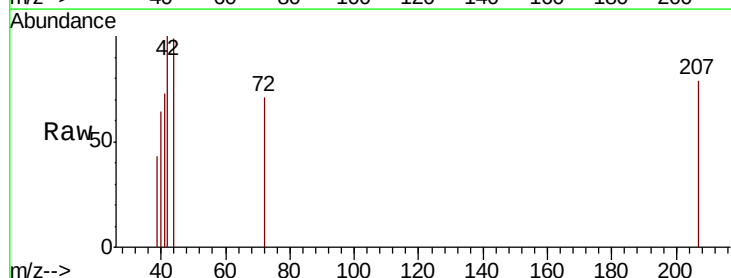
Ion Ratio Lower Upper

41 100

39 25.1 53.8 80.6#

67 0.0 91.1 136.7#

52 0.0 36.0 54.0#

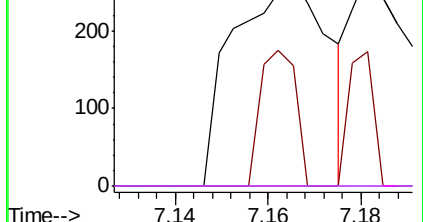
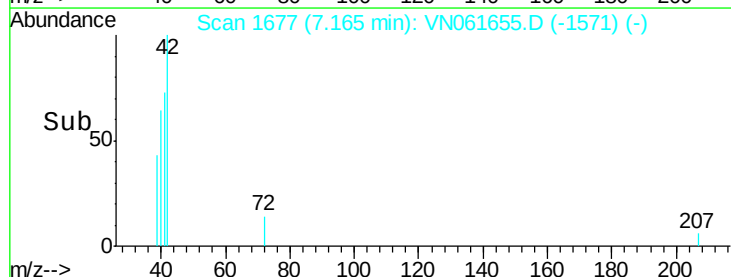


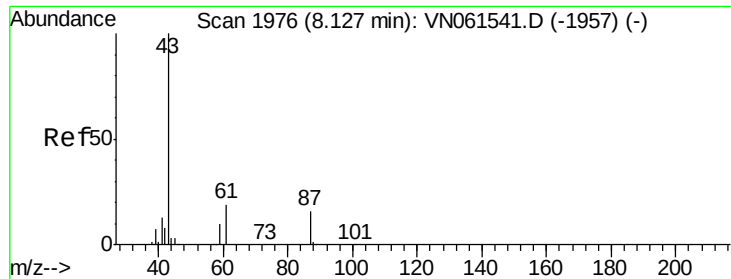
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 9.873 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061655.D

Acq: 4 Jun 2020 16:01

Instrument :

MSVOA_N

ClientSampleId :

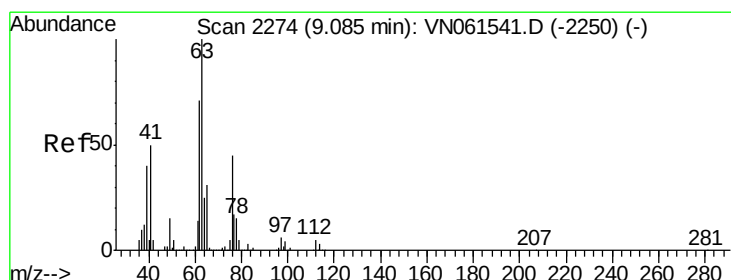
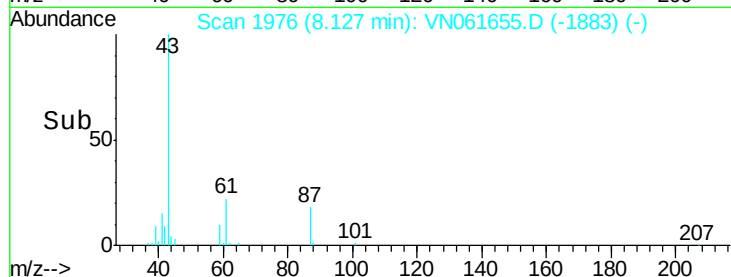
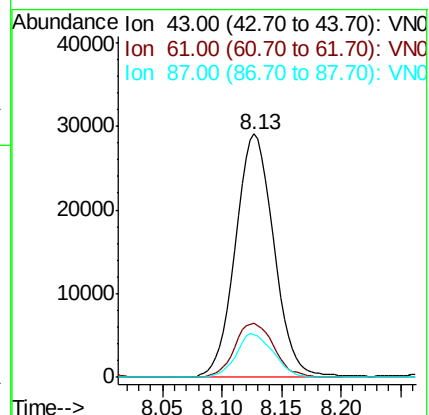
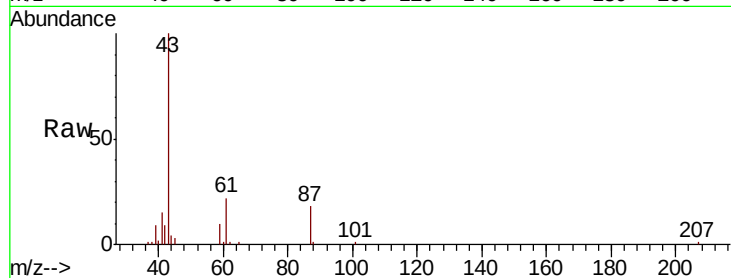
Tot Ion: 43 Resp: 65150

Ion Ratio Lower Upper

43 100

61 22.8 23.6 35.4#

87 17.2 13.0 19.6



#45

1,2-Dichloropropane

Concen: 0.467 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN061655.D

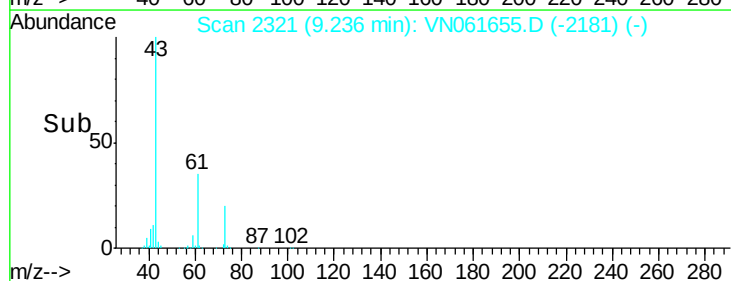
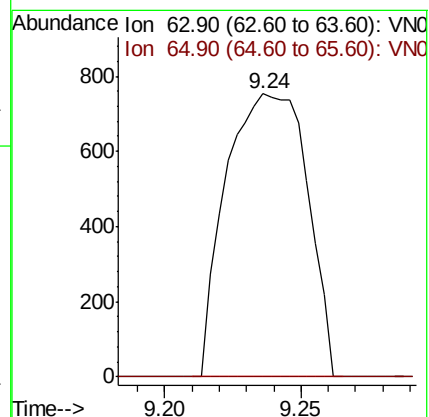
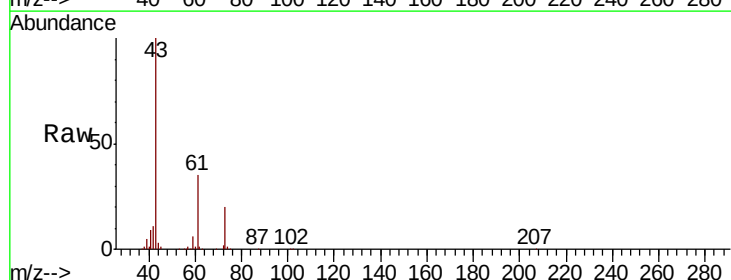
Acq: 4 Jun 2020 16:01

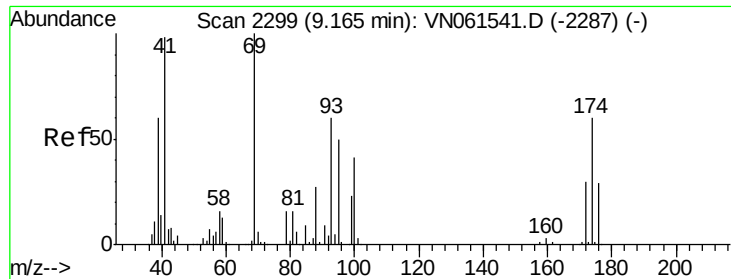
Tgt Ion: 63 Resp: 1557

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#

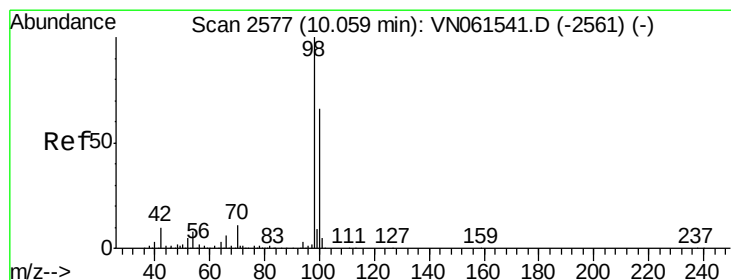
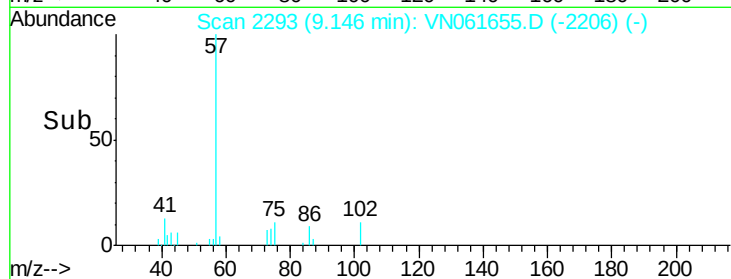
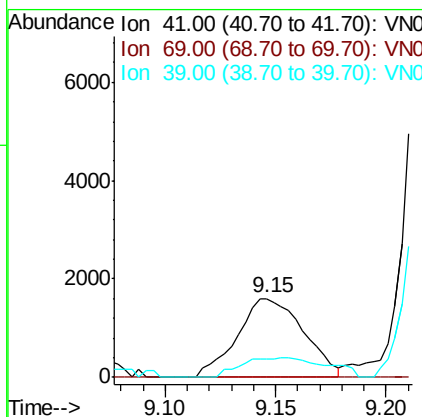
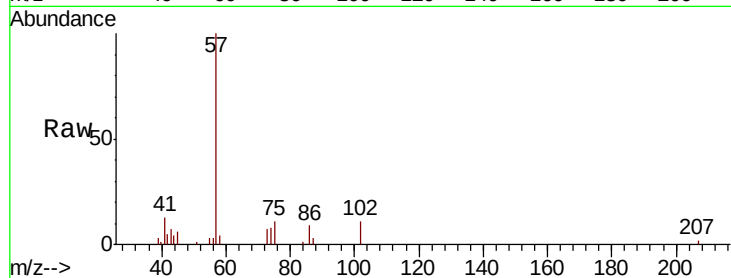




#48
Methvl methacrylate
Concen: 1.128 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

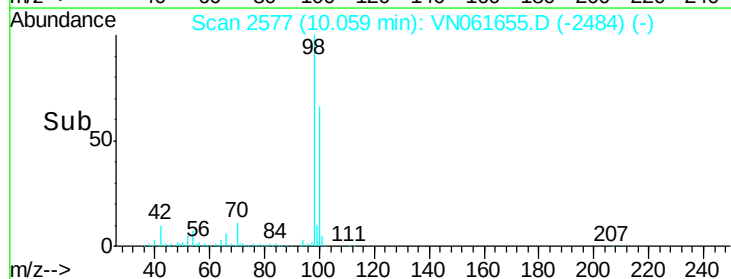
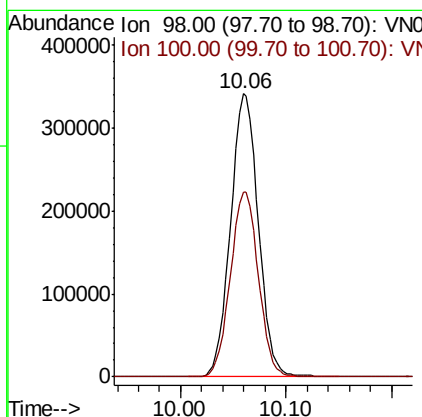
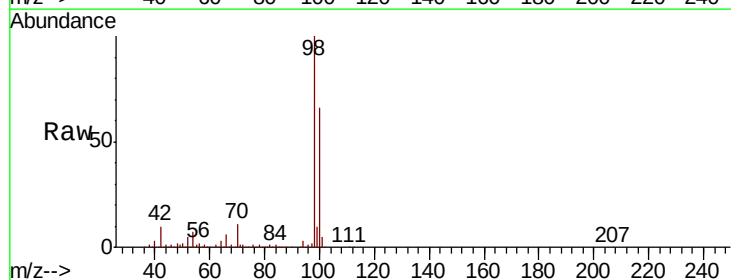
Instrument :
MSVOA_N
ClientSampleId :

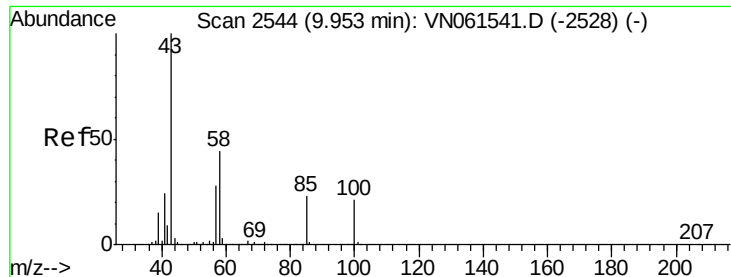
Tot Ion: 41 Resp: 3349
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#50
Toluene-d8
Concen: 51.420 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

Tgt Ion: 98 Resp: 621797
Ion Ratio Lower Upper
98 100
100 66.1 52.8 79.2

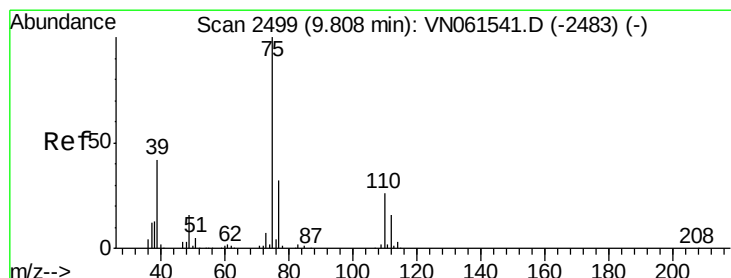
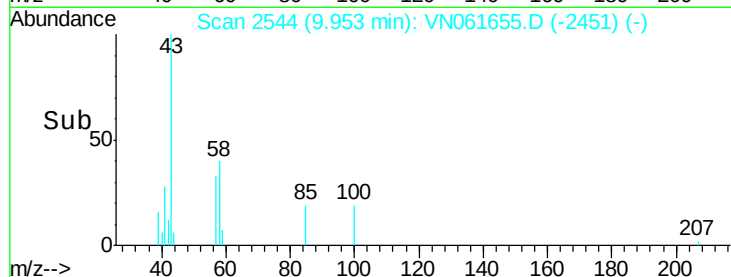
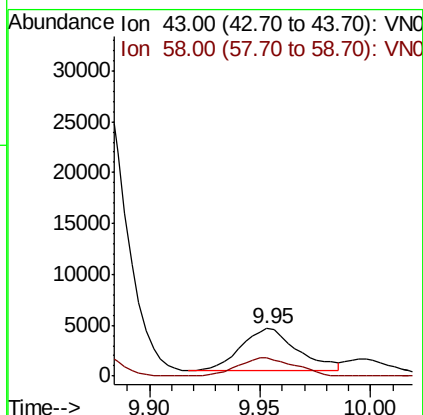
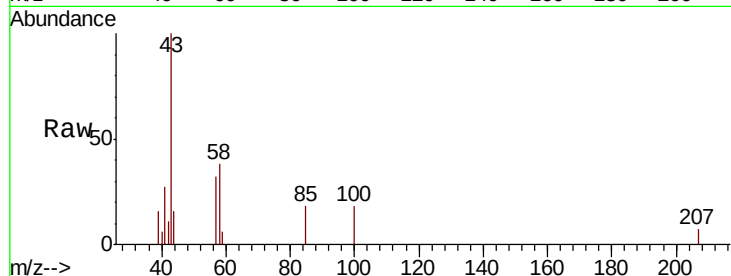




#51
4-Methyl-2-Pentanone
Concen: 2.002 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

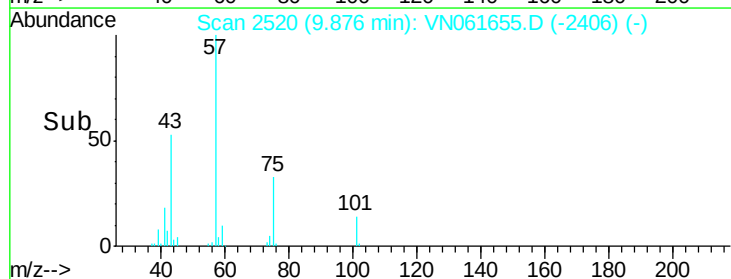
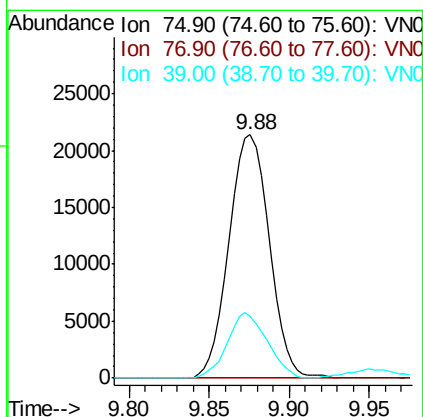
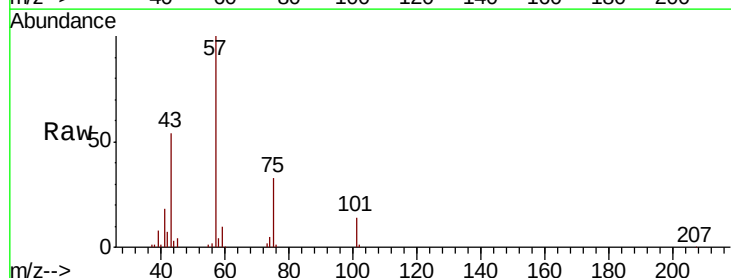
Instrument :
MSVOA_N
ClientSampled :

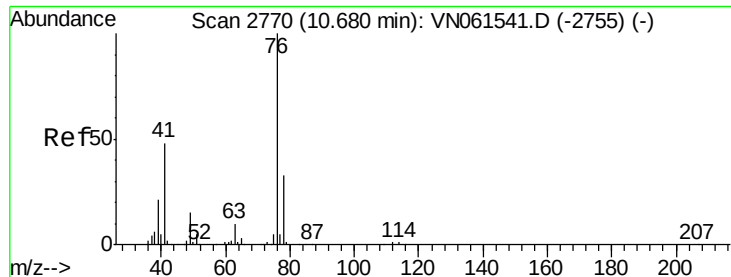
Tot Ion: 43 Resp: 7444
Ion Ratio Lower Upper
43 100
58 43.8 35.0 52.6



#54
cis-1,3-Dichloropropene
Concen: 6.287 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

Tgt Ion: 75 Resp: 36916
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#
39 25.2 33.8 50.6#





#57

1,3-Dichloropropane

Concen: 1.090 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061655.D

Acq: 4 Jun 2020 16:01

Instrument :

MSVOA_N

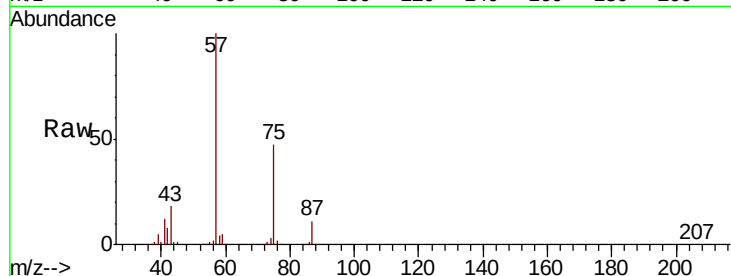
ClientSampled :

Tot Ion: 76 Resp: 6370

Ion Ratio Lower Upper

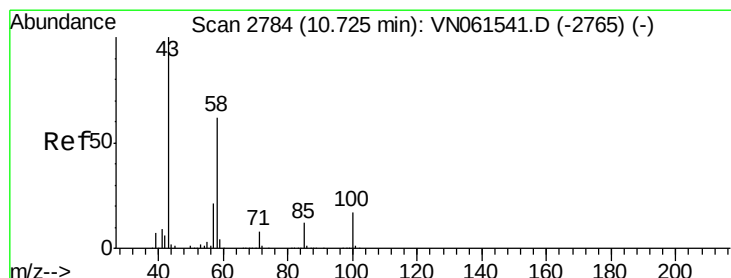
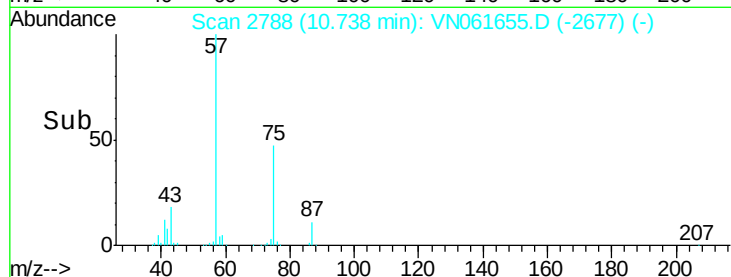
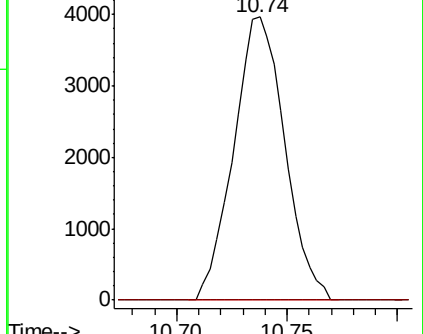
76 100

78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 25.421 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN061655.D

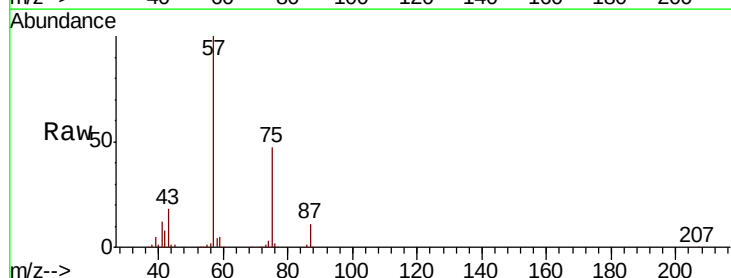
Acq: 4 Jun 2020 16:01

Tgt Ion: 43 Resp: 67889

Ion Ratio Lower Upper

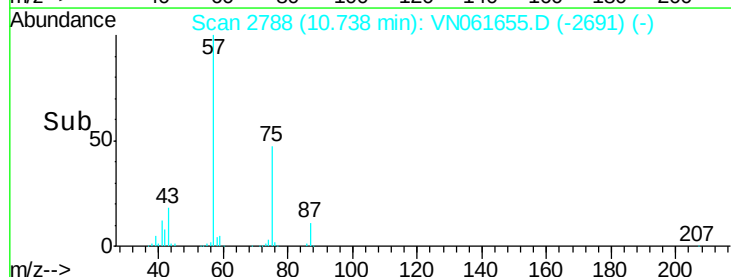
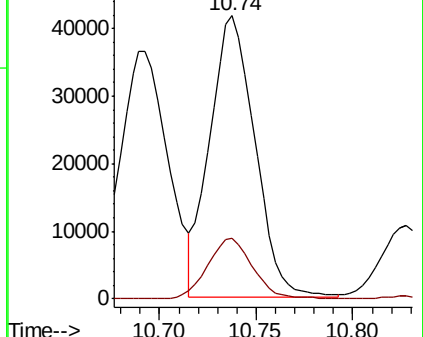
43 100

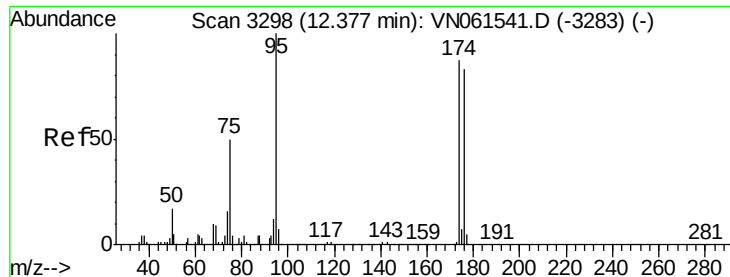
58 21.4 30.7 92.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

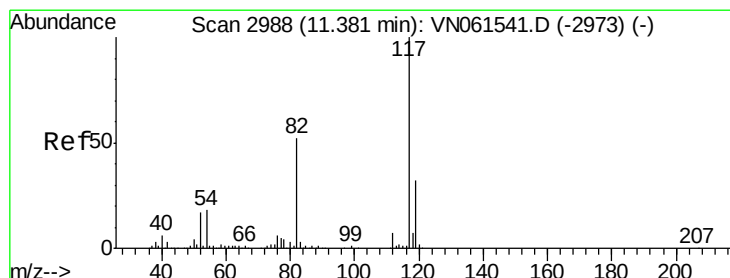
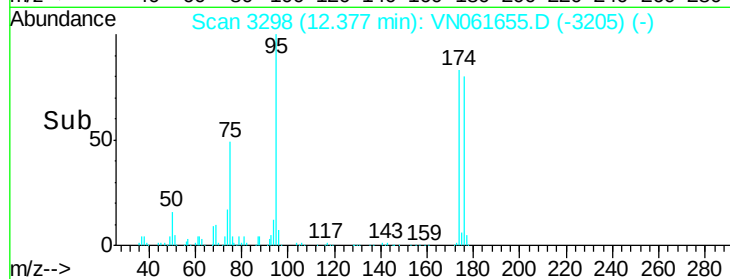
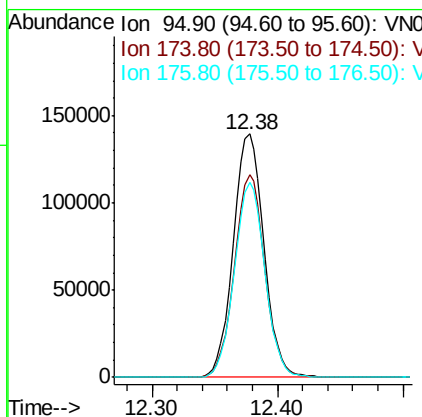
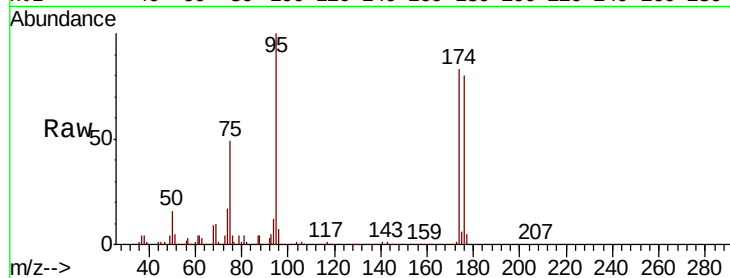




#62
4-Bromofluorobenzene
Concen: 53.701 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

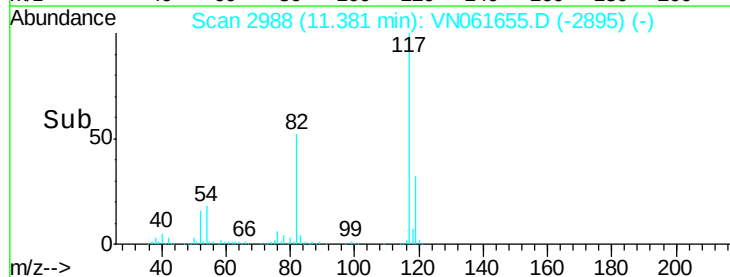
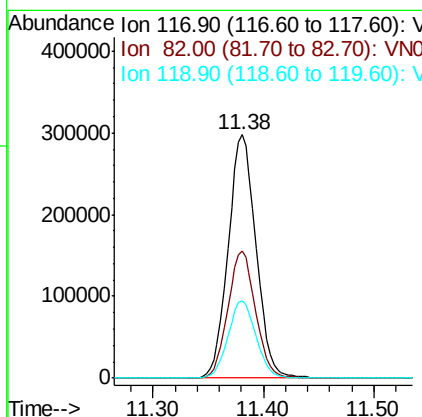
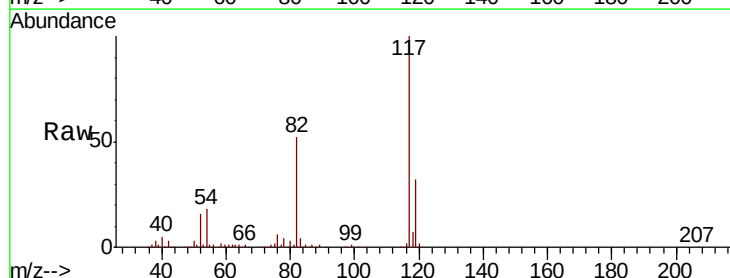
Instrument :
MSVOA_N
ClientSampled :

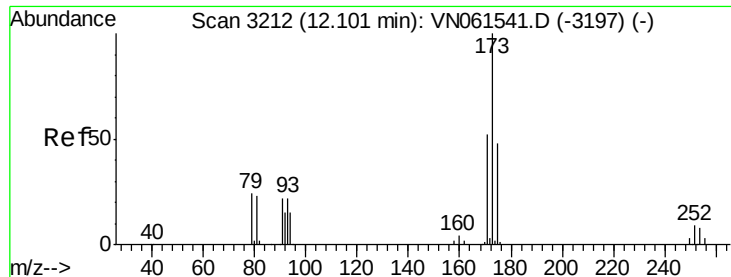
Tot Ion	Ratio	Lower	Upper
95	100		
174	82.4	0.0	172.8
176	79.5	0.0	164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	41.5	62.3
119	31.9	25.6	38.4

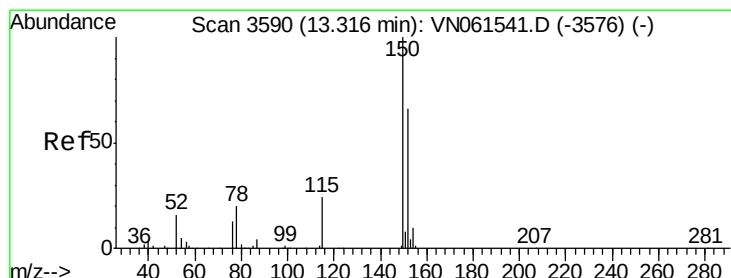
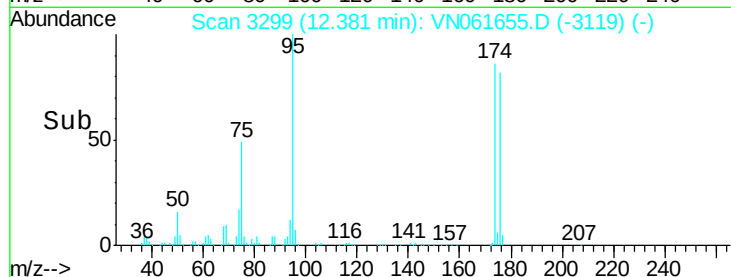
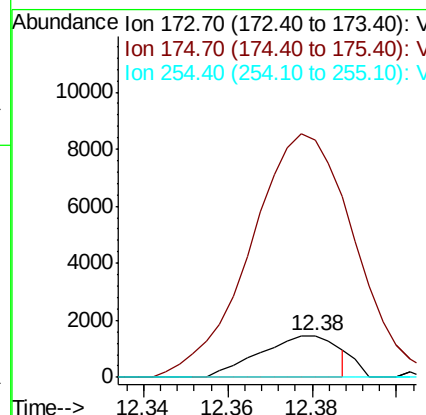
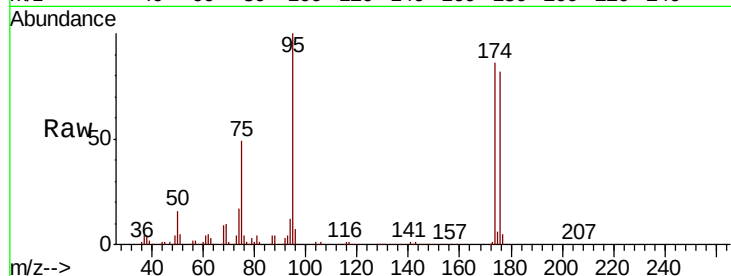




#71
Bromoform
Concen: 0.599 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

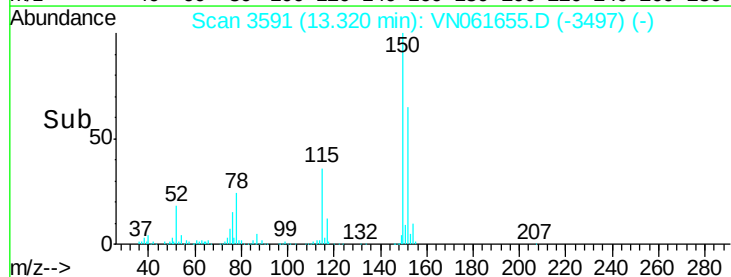
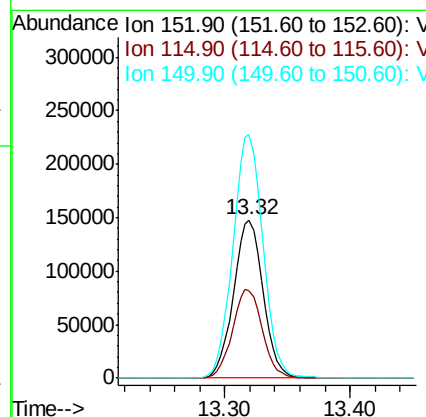
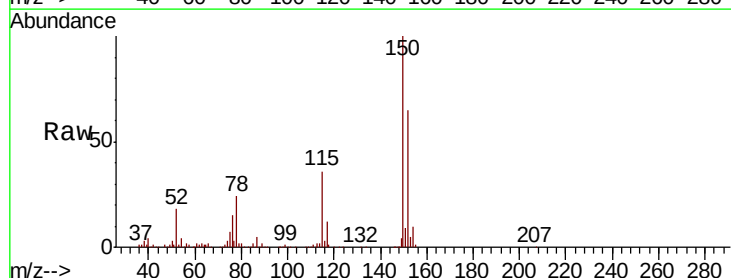
Instrument :
MSVOA_N
ClientSampled :

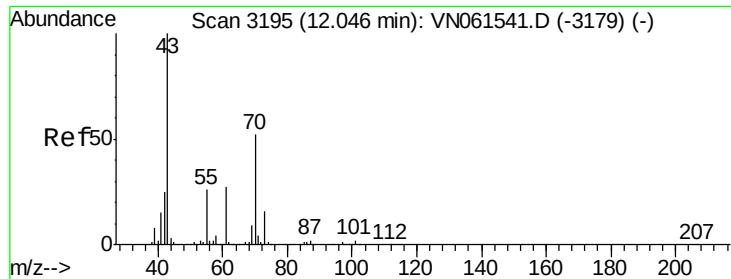
Tot Ion:173 Resp: 1861
Ion Ratio Lower Upper
173 100
175 656.3 24.4 73.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

Tgt Ion:152 Resp: 242322
Ion Ratio Lower Upper
152 100
115 56.8 28.0 84.0
150 156.0 0.0 344.0

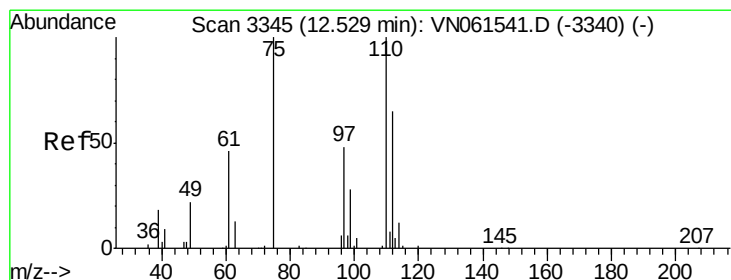
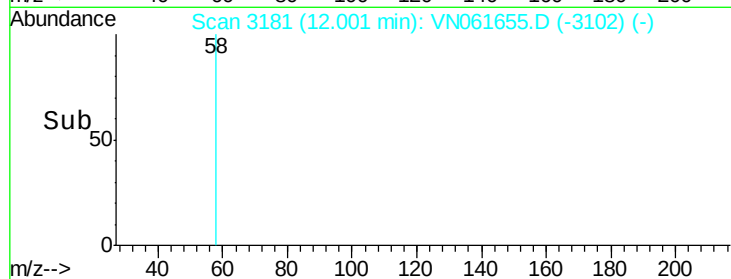
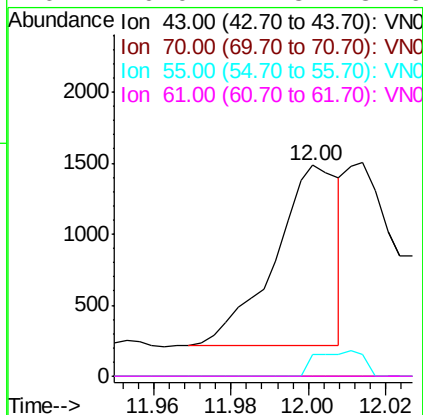
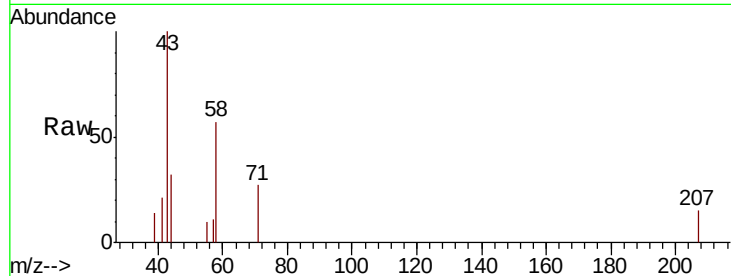




#74
N-amvl acetate
Concen: 0.262 ug/l
RT: 12.00 min Scan# 3181
Delta R.T. -0.05 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

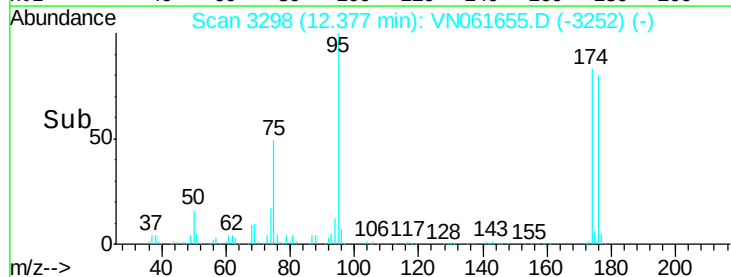
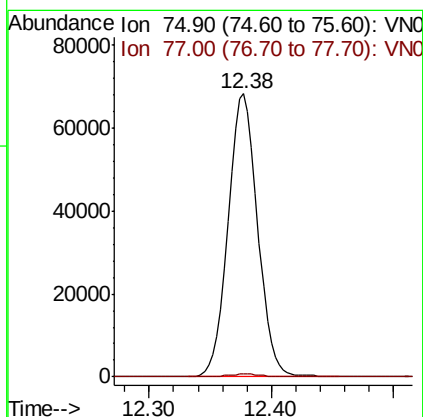
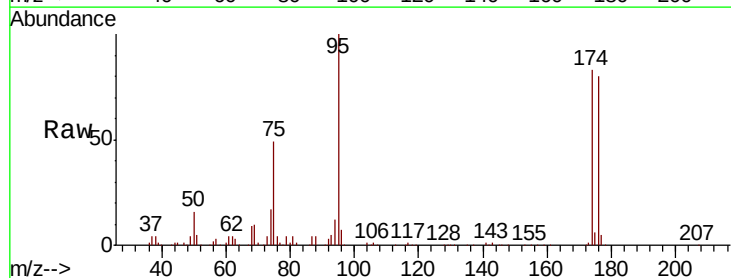
Instrument :
MSVOA_N
ClientSampleId :

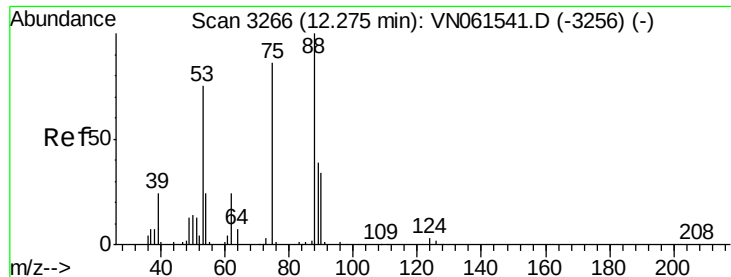
Tot Ion: 43 Resp: 1461
Ion Ratio Lower Upper
43 100
70 0.0 40.5 60.7#
55 10.3 20.6 31.0#
61 0.0 21.8 32.6#



#76
1,2,3-Trichloropropane
Concen: 26.181 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN061655.D
Acq: 4 Jun 2020 16:01

Tgt Ion: 75 Resp: 115363
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 66.952 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061655.D

Acq: 4 Jun 2020 16:01

Instrument :

MSVOA_N

ClientSampleId :

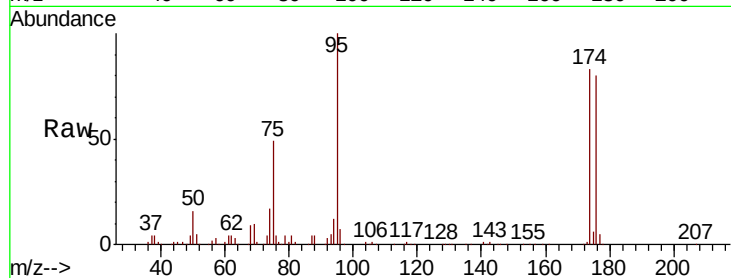
Tot Ion: 75 Resp: 115363

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.1 37.1 55.7#



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

