

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060420\
 Data File : VN061653.D
 Acq On : 4 Jun 2020 15:14
 Operator : JC/MD
 Sample : PB129284ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

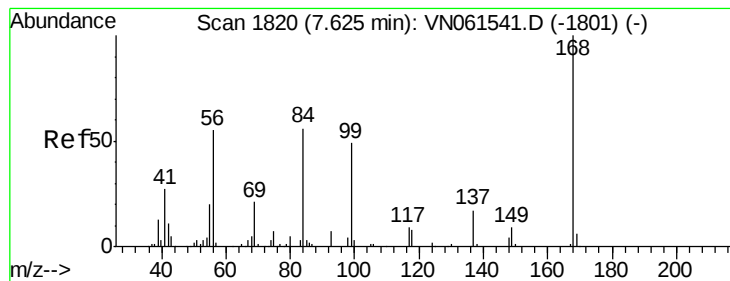
Quant Time: Jun 05 07:28:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	312636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	540110	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	545421	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	251962	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	180069	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
35) Dibromofluoromethane	7.55	113	138457	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
50) Toluene-d8	10.06	98	654953	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
62) 4-Bromofluorobenzene	12.38	95	247998	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	641	0.214	ug/l #	19
8) Diethyl Ether	3.37	74	492	0.239	ug/l	75
11) Tert butyl alcohol	4.74	59	326	0.658	ug/l #	72
16) Acetone	3.78	43	21342	14.960	ug/l	97
18) Methyl Acetate	4.28	43	921	0.273	ug/l	93
20) Methylene Chloride	4.51	84	12563	2.042	ug/l	96
25) 2-Butanone	6.80	43	3255	1.844	ug/l #	85
29) Tetrahydrofuran	7.18	42	1170	1.005	ug/l #	39
31) Cyclohexane	7.63	56	5398	1.028	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	21602	4.518	ug/l #	48
37) Ethyl Acetate	6.80	43	3255	0.845	ug/l #	66
38) Carbon Tetrachloride	7.63	117	29486	6.393	ug/l #	16
43) Isopropyl Acetate	8.13	43	70777	10.215	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1764	0.504	ug/l #	44
48) Methyl methacrylate	9.14	41	3670	1.177	ug/l #	5
49) 1,4-Dioxane	9.24	88	134	2.775	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7550	1.934	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	40493	6.568	ug/l #	62
56) Ethyl methacrylate	10.52	69	1114	0.208	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6253	1.019	ug/l #	42
59) 2-Hexanone	10.74	43	72974	26.025	ug/l #	49
74) N-amyl acetate	12.00	43	2443	0.422	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	118493	25.863	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	5779	0.376	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	118493	66.137	ug/l #	15

(#) = 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: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

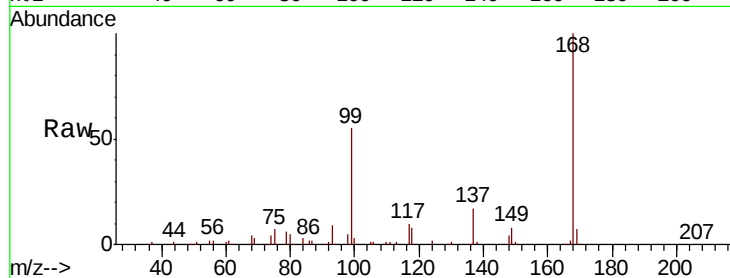
ClientSampleId :

Tot Ion:168 Resp: 312636

Ion Ratio Lower Upper

168 100

99 55.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061653.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN061653.D (-1727) (-)

7.63

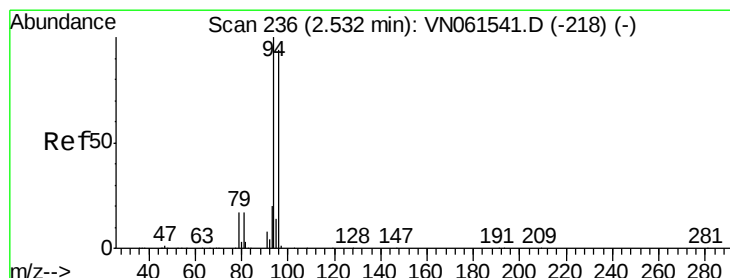
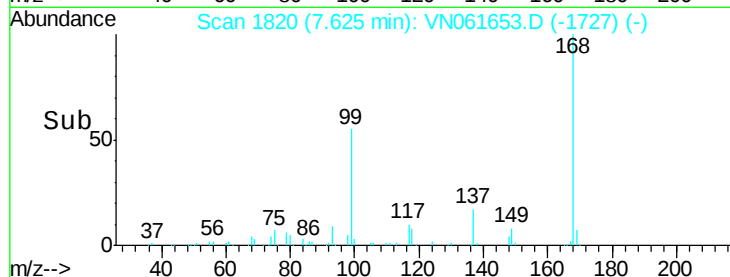
150000

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#5

Bromomethane

Concen: 0.214 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN061653.D

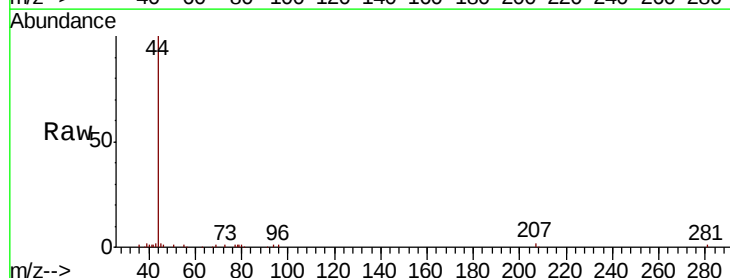
Acq: 4 Jun 2020 15:14

Tgt Ion: 94 Resp: 641

Ion Ratio Lower Upper

94 100

96 15.9 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VN061653.D (-143) (-)

Ion 95.90 (95.60 to 96.60): VN061653.D (-143) (-)

2.54

500

400

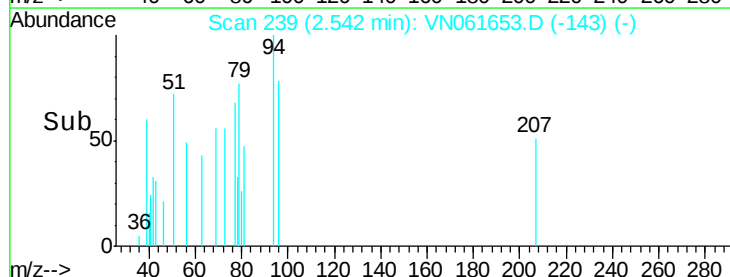
300

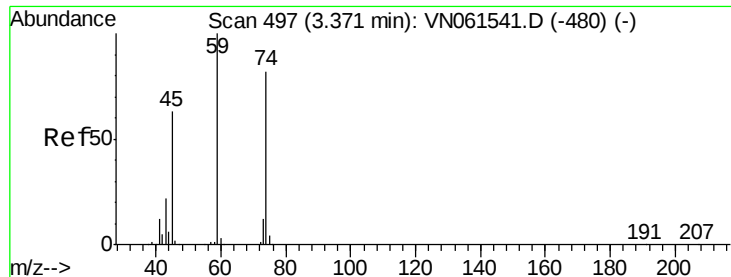
200

100

0

Time--> 2.52 2.54 2.56 2.58





#8

Diethyl Ether

Concen: 0.239 ug/l

RT: 3.37 min Scan# 495

Delta R.T. -0.01 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

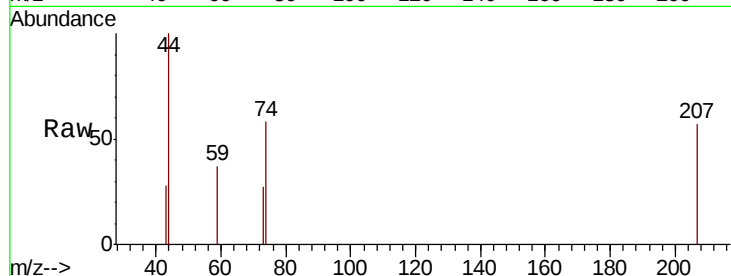
ClientSampleId :

Tot Ion: 74 Resp: 492

Ion Ratio Lower Upper

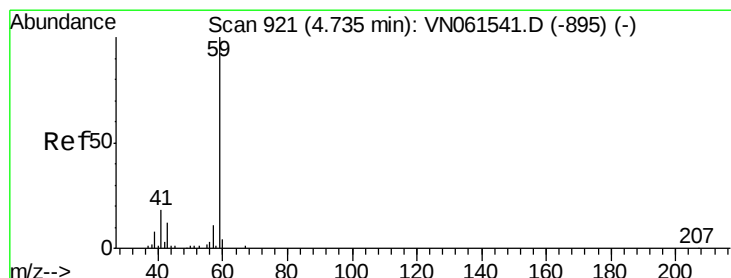
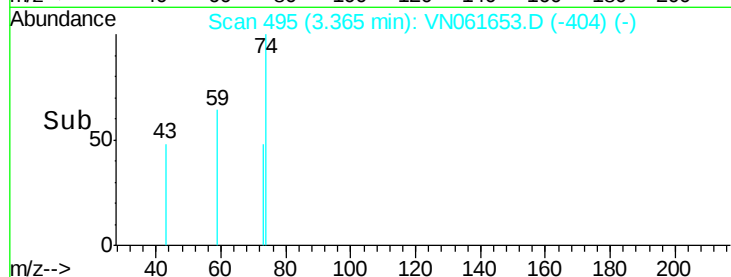
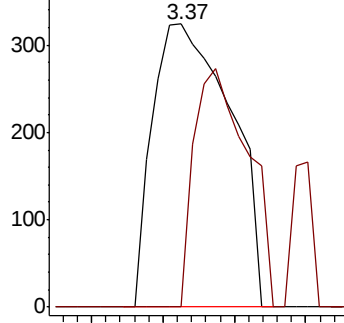
74 100

45 57.9 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#11

Tert butyl alcohol

Concen: 0.658 ug/l

RT: 4.74 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN061653.D

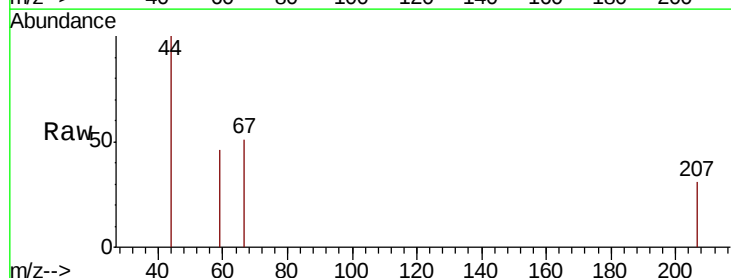
Acq: 4 Jun 2020 15:14

Tgt Ion: 59 Resp: 326

Ion Ratio Lower Upper

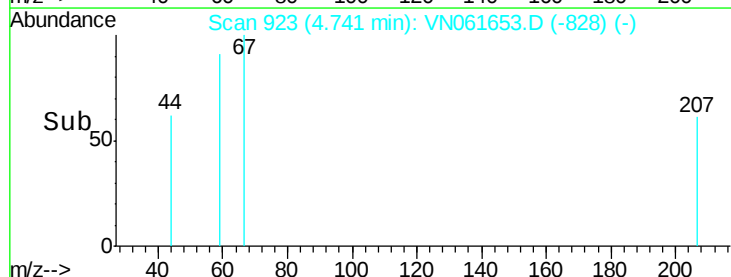
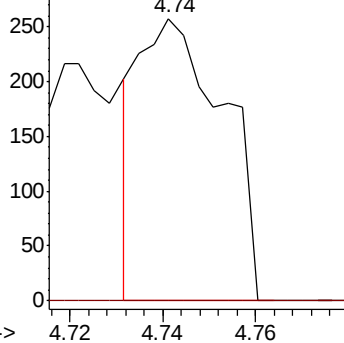
59 100

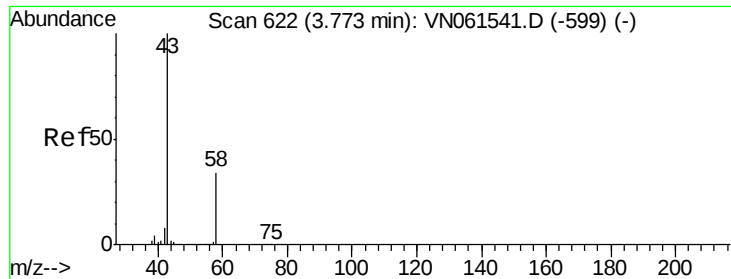
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 14.960 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

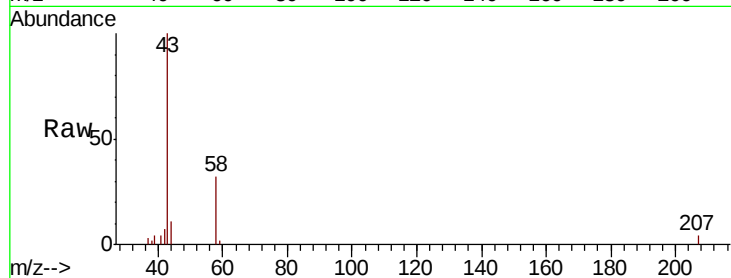
ClientSampleId :

Tot Ion: 43 Resp: 21342

Ion Ratio Lower Upper

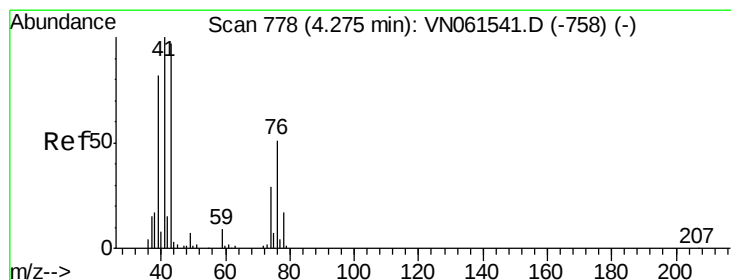
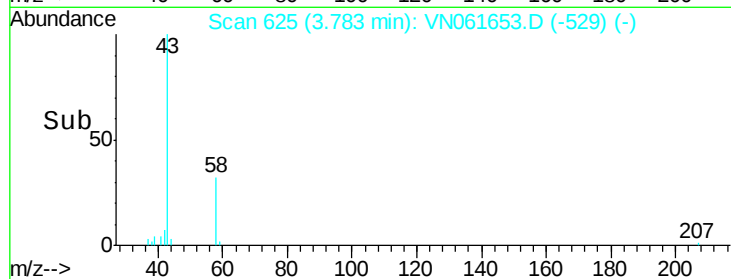
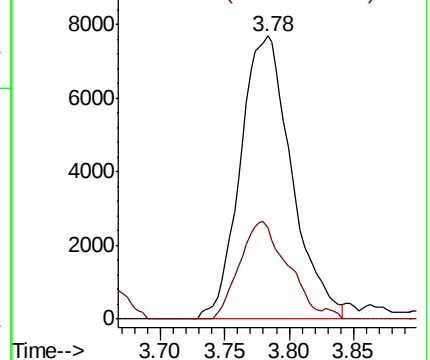
43 100

58 32.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.273 ug/l

RT: 4.28 min Scan# 778

Delta R.T. 0.00 min

Lab File: VN061653.D

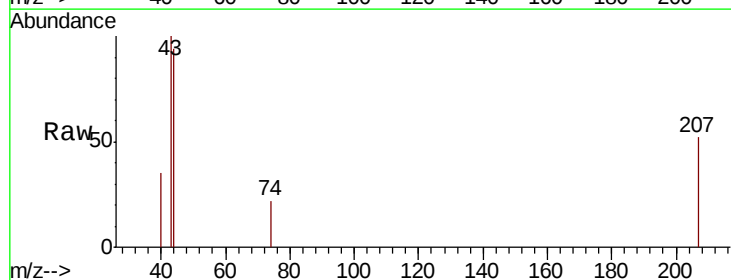
Acq: 4 Jun 2020 15:14

Tgt Ion: 43 Resp: 921

Ion Ratio Lower Upper

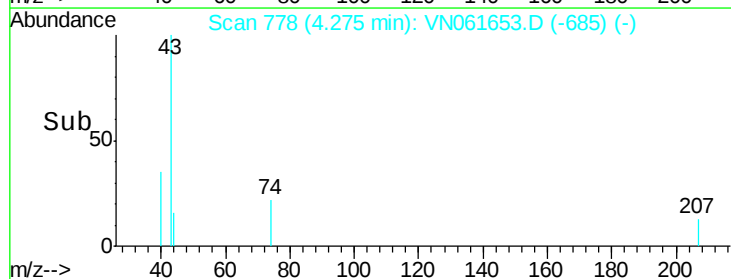
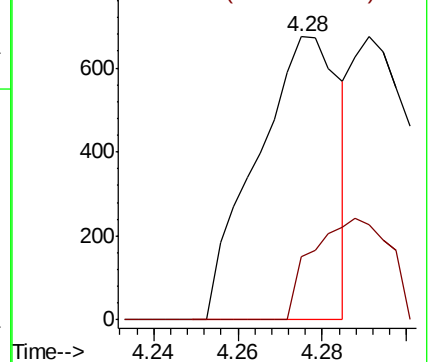
43 100

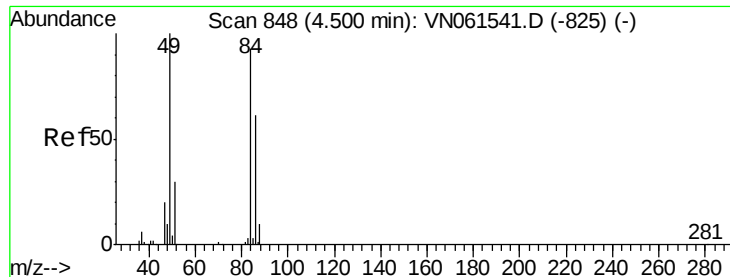
74 32.9 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

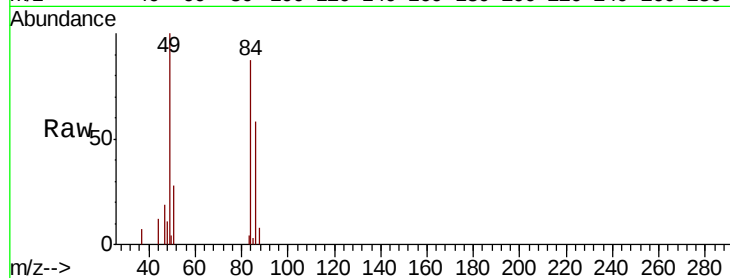




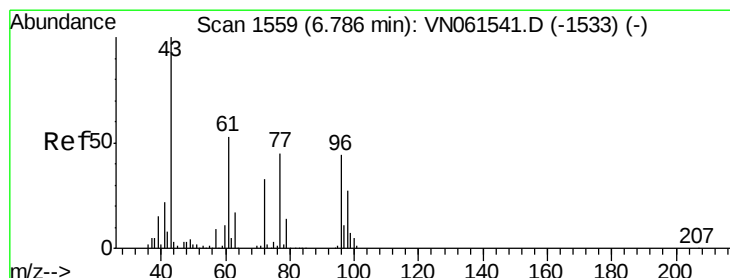
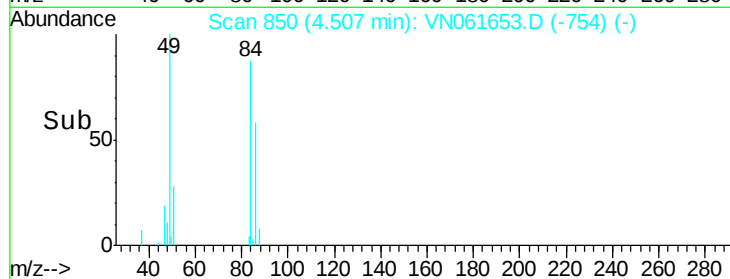
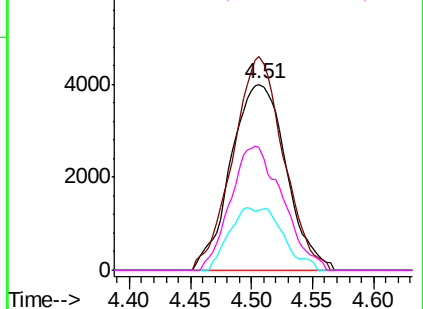
#20
Methvlene Chloride
Concen: 2.042 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 12563
Ion Ratio Lower Upper
84 100
49 114.7 85.8 128.8
51 32.1 26.2 39.2
86 66.0 52.6 78.8

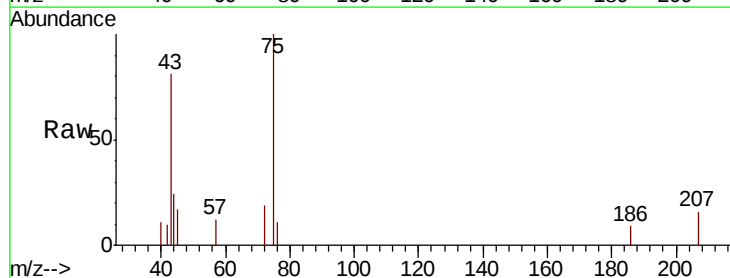


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

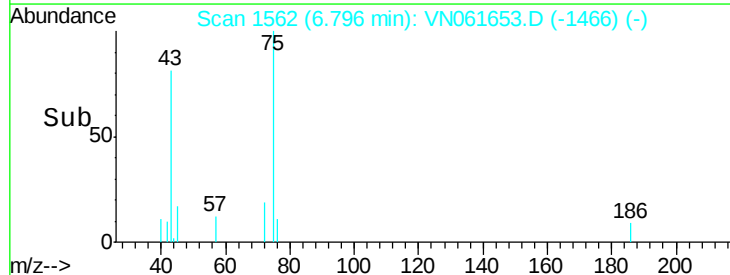
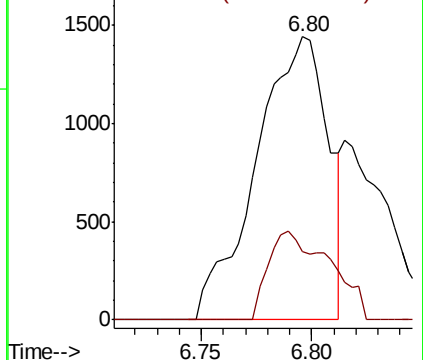


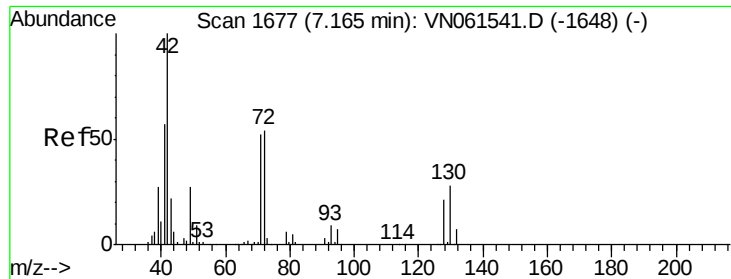
#25
2-Butanone
Concen: 1.844 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

Tgt Ion: 43 Resp: 3255
Ion Ratio Lower Upper
43 100
72 24.1 26.0 39.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

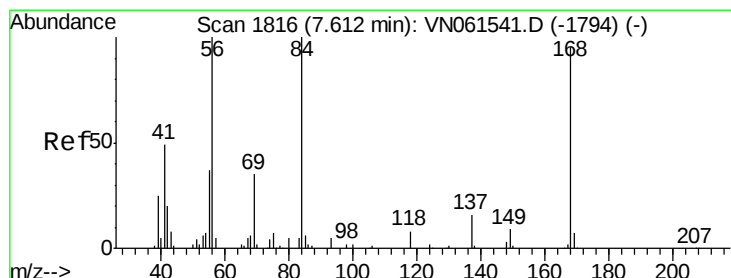
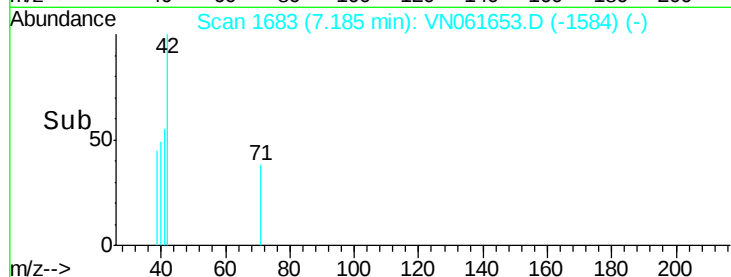
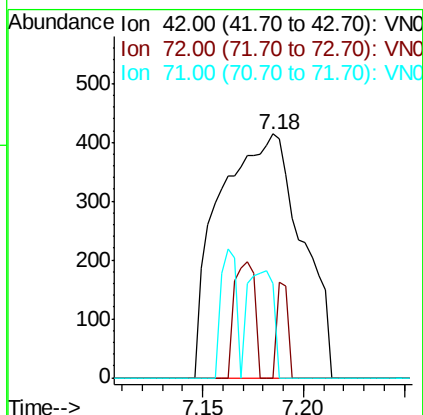
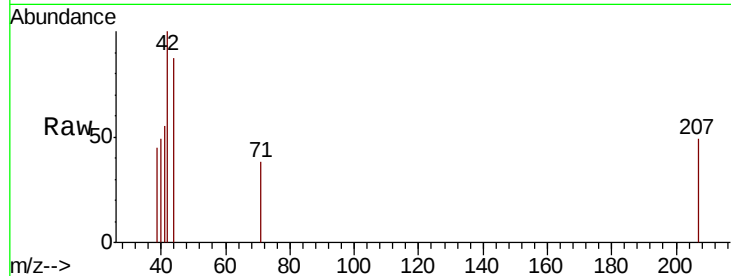




#29
Tetrahydrofuran
Concen: 1.005 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.02 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

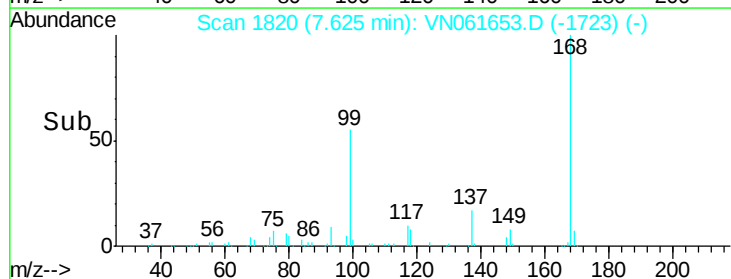
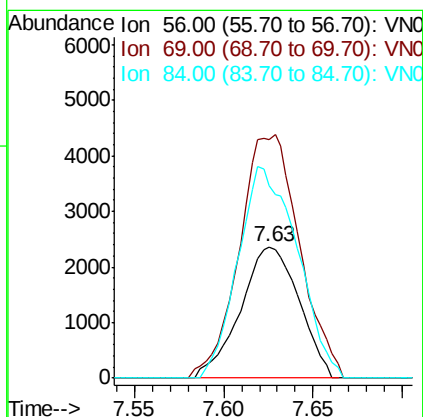
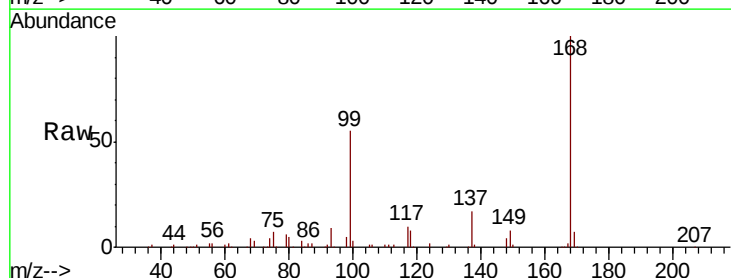
Instrument :
MSVOA_N
ClientSampled :

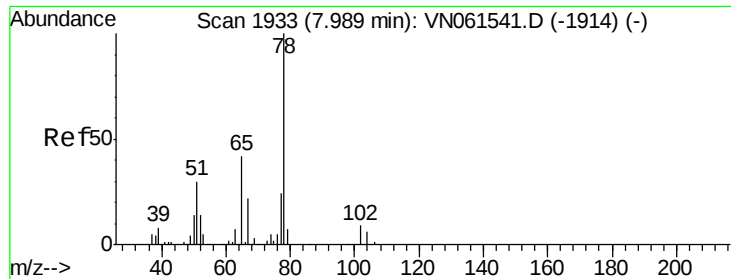
Tot Ion: 42 Resp: 1170
Ion Ratio Lower Upper
42 100
72 5.2 43.6 65.4#
71 14.0 41.2 61.8#



#31
Cyclohexane
Concen: 1.028 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

Tgt Ion: 56 Resp: 5398
Ion Ratio Lower Upper
56 100
69 181.9 27.8 41.8#
84 155.0 79.9 119.9#





#33

1,2-Dichloroethane-d4

Concen: 48.342 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

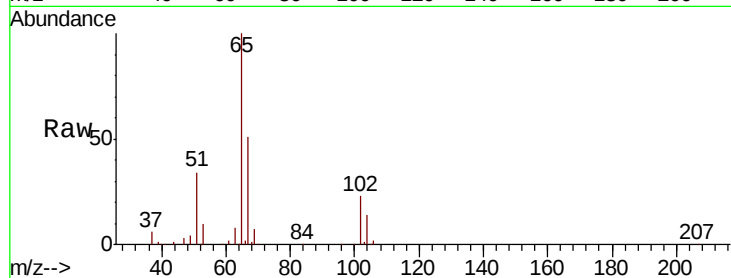
ClientSampleId :

Tot Ion: 65 Resp: 180069

Ion Ratio Lower Upper

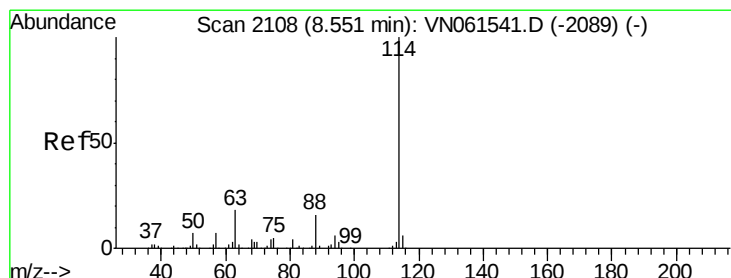
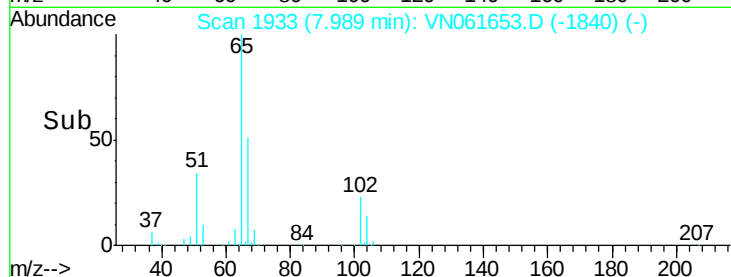
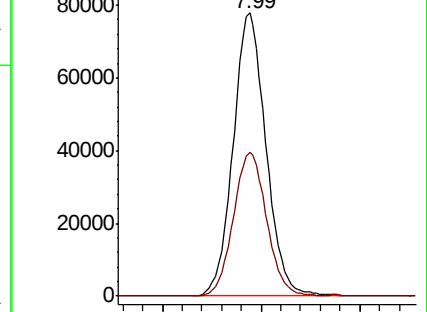
65 100

67 51.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061653.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061653.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: VN061653.D

Acq: 4 Jun 2020 15:14

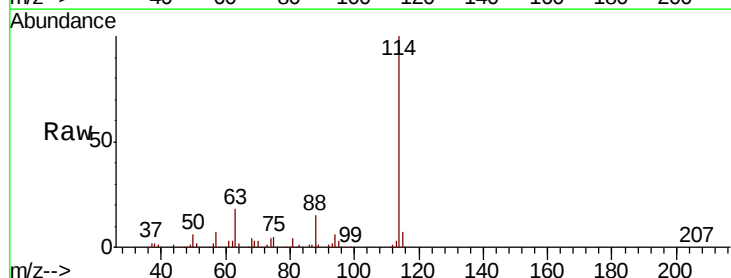
Tgt Ion: 114 Resp: 540110

Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.8

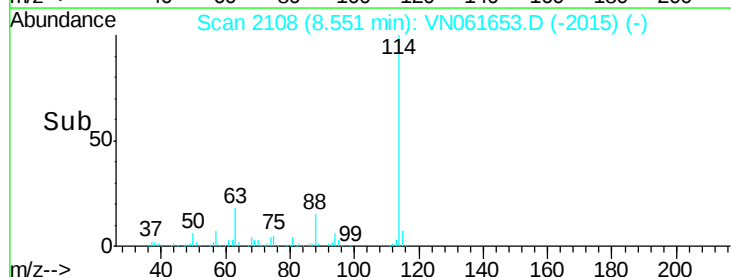
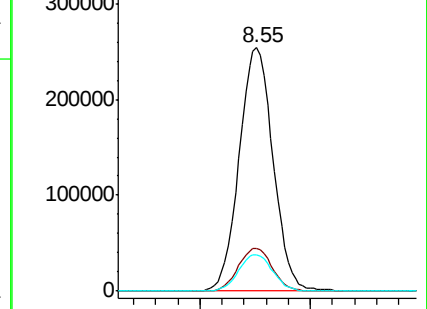
88 14.8 0.0 31.0

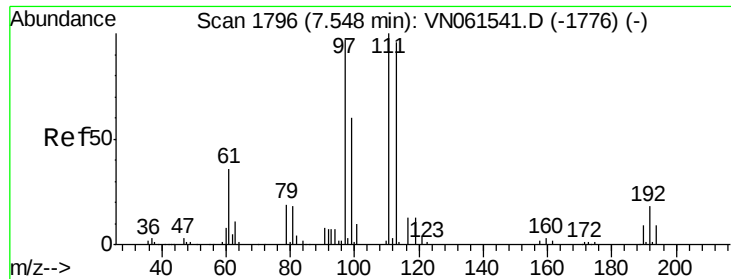


Abundance Ion 113.90 (113.60 to 114.60): VN061653.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN061653.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN061653.D (-2015) (-)

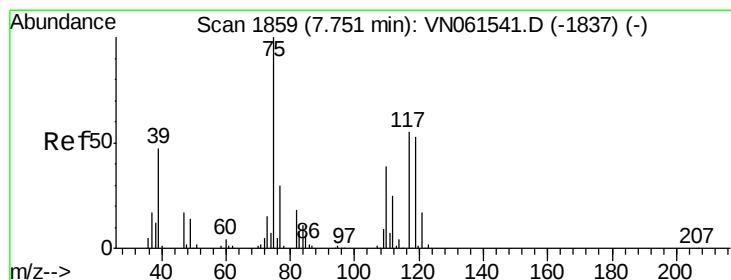
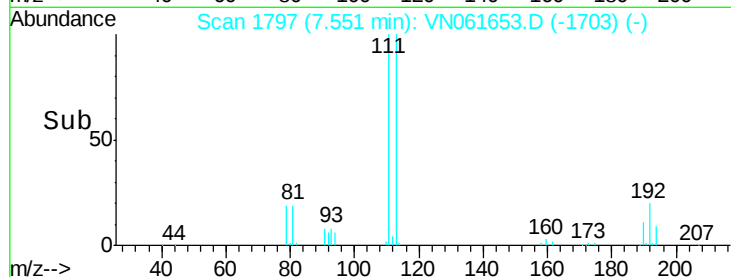
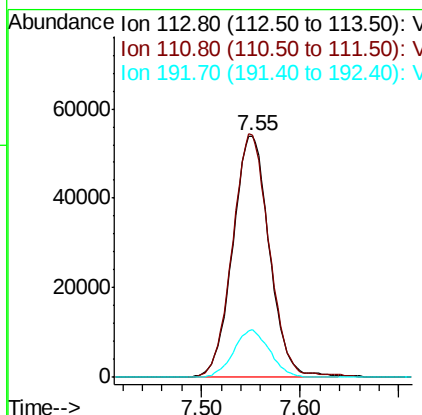
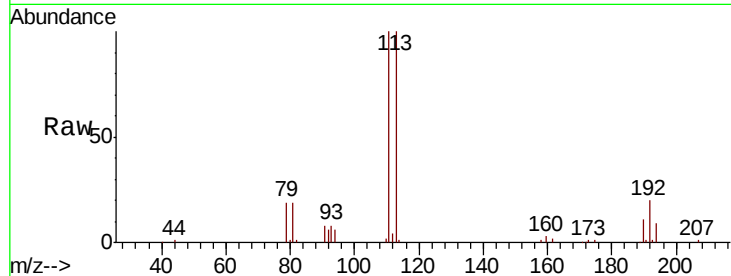




#35
 Dibromofluoromethane
 Concen: 50.534 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061653.D
 Acq: 4 Jun 2020 15:14

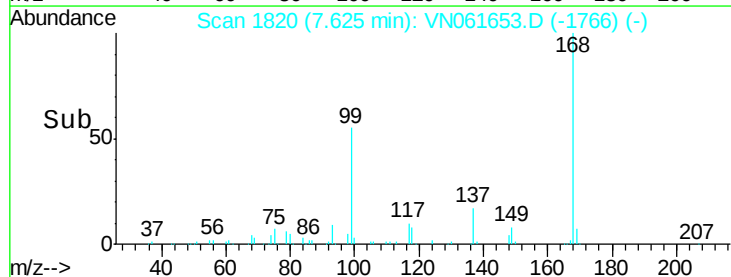
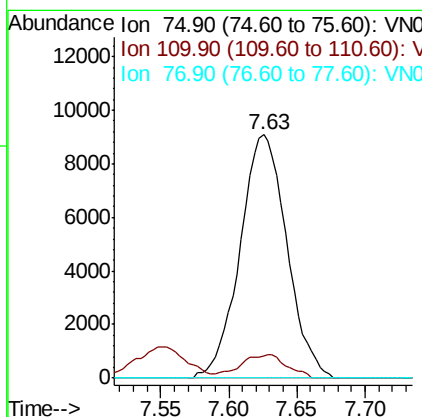
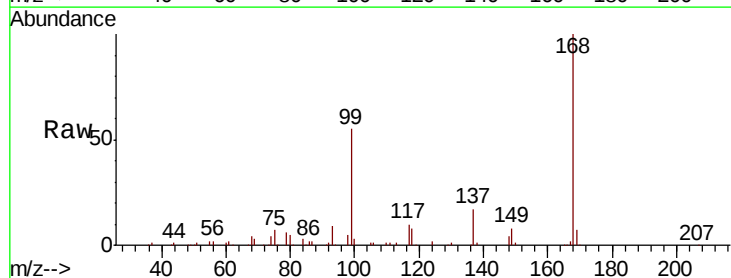
Instrument :
 MSVOA_N
 ClientSampleId :

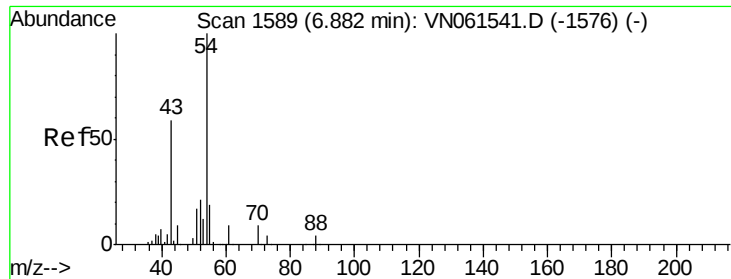
Tot Ion:113 Resp: 138457
 Ion Ratio Lower Upper
 113 100
 111 100.1 83.4 125.0
 192 19.3 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.518 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061653.D
 Acq: 4 Jun 2020 15:14

Tgt Ion: 75 Resp: 21602
 Ion Ratio Lower Upper
 75 100
 110 9.5 19.5 58.5#
 77 0.0 24.7 37.1#

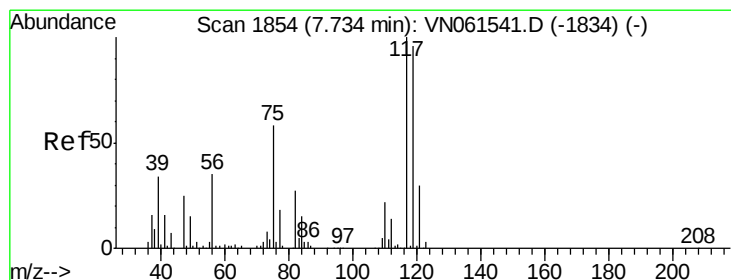
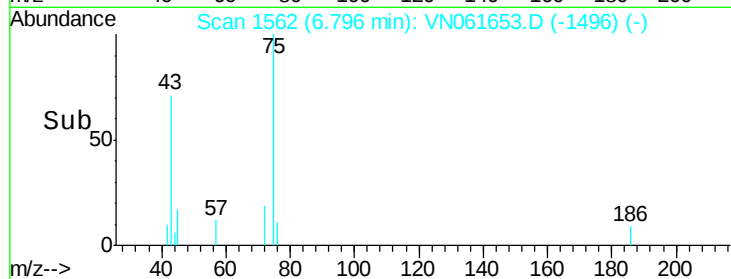
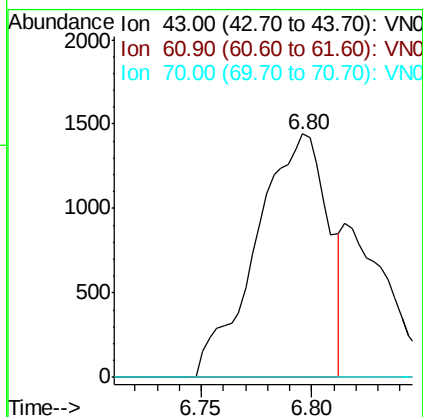
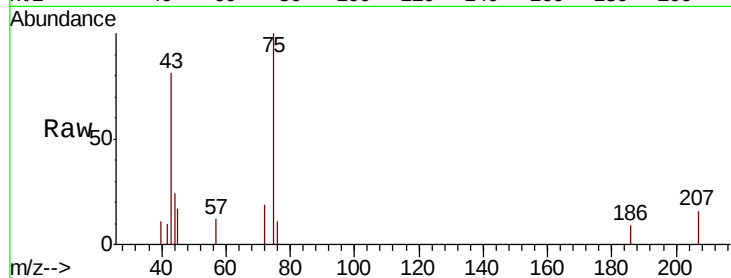




#37
Ethyl Acetate
Concen: 0.845 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.09 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

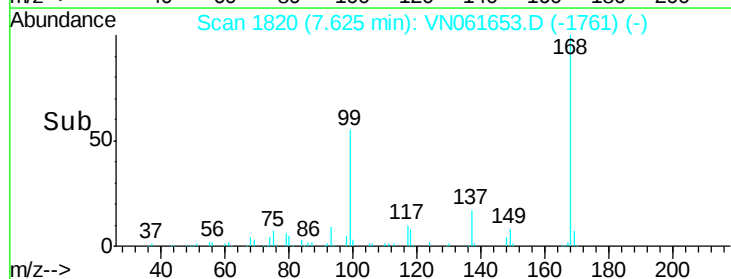
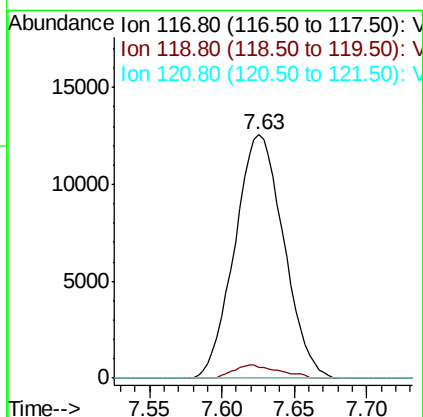
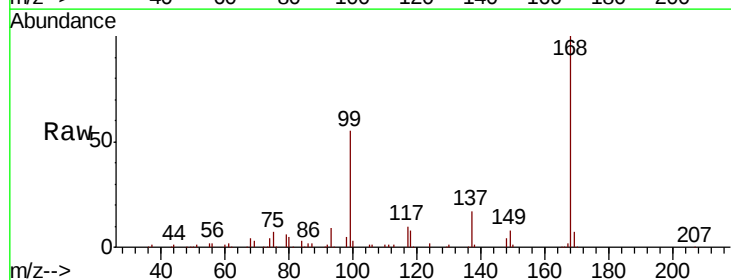
Instrument :
MSVOA_N
ClientSampleId :

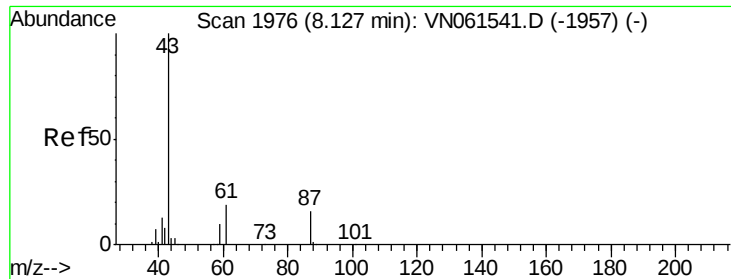
Tot Ion: 43 Resp: 3255
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.4#
70 0.0 9.4 14.2#



#38
Carbon Tetrachloride
Concen: 6.393 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

Tgt Ion: 117 Resp: 29486
Ion Ratio Lower Upper
117 100
119 4.6 76.5 114.7#
121 0.0 24.1 36.1#



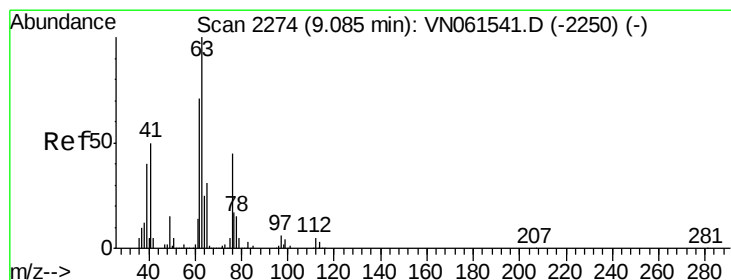
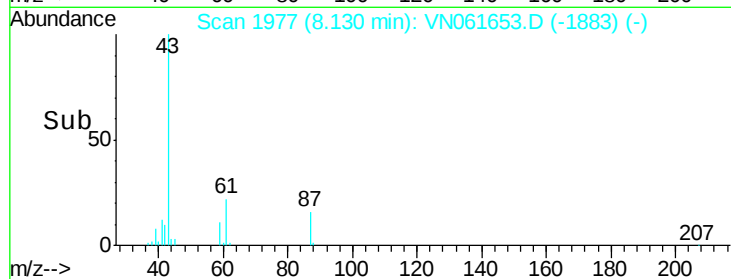
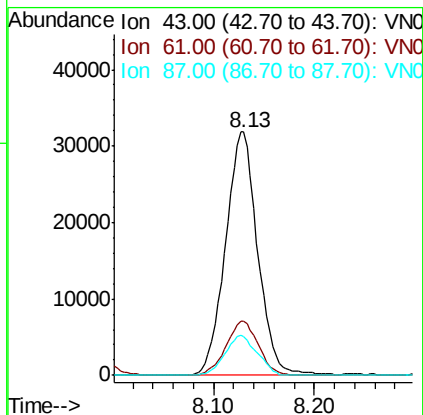
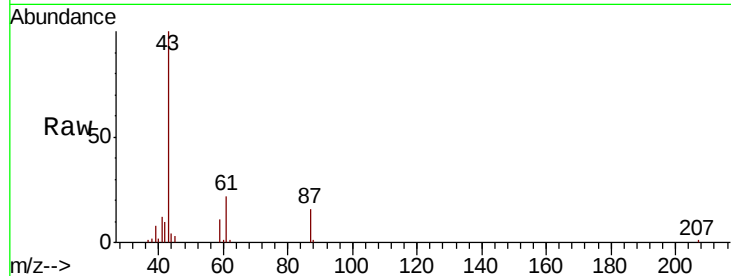


#43

Isopropyl Acetate
 Concen: 10.215 ug/l
 RT: 8.13 min Scan# 1977
 Delta R.T. 0.00 min
 Lab File: VN061653.D
 Acq: 4 Jun 2020 15:14

Instrument :
 MSVOA_N
 ClientSampleId :

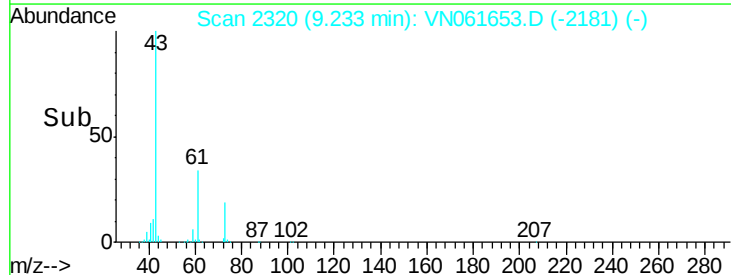
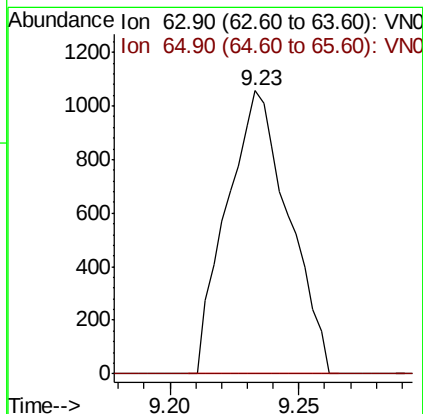
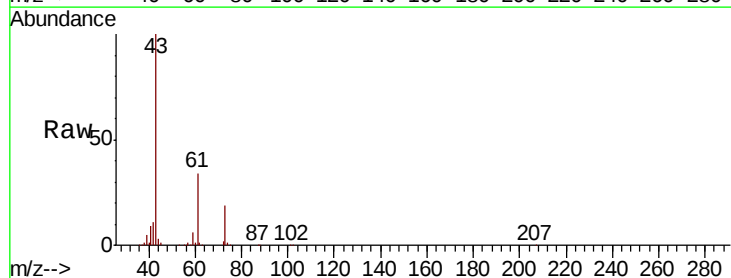
Tot Ion: 43 Resp: 70777
 Ion Ratio Lower Upper
 43 100
 61 22.3 23.6 35.4#
 87 16.2 13.0 19.6

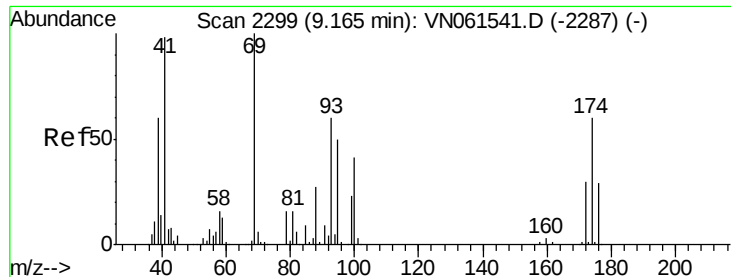


#45

1,2-Dichloropropane
 Concen: 0.504 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN061653.D
 Acq: 4 Jun 2020 15:14

Tgt Ion: 63 Resp: 1764
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#

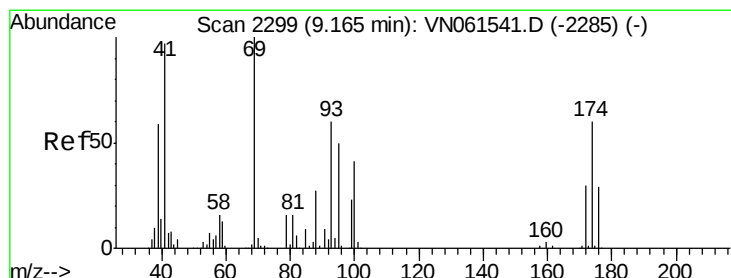
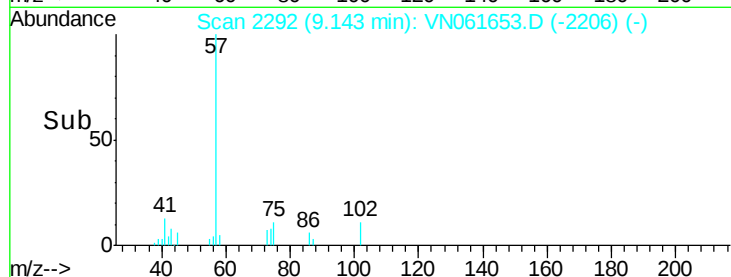
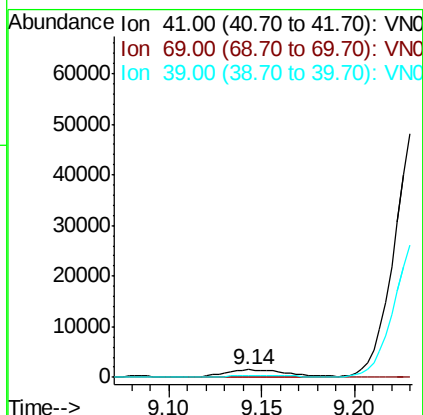
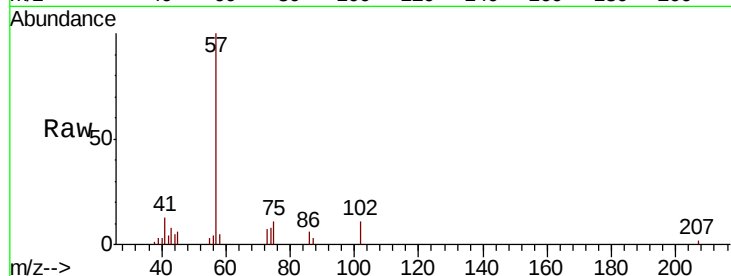




#48
Methvl methacrylate
Concen: 1.177 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

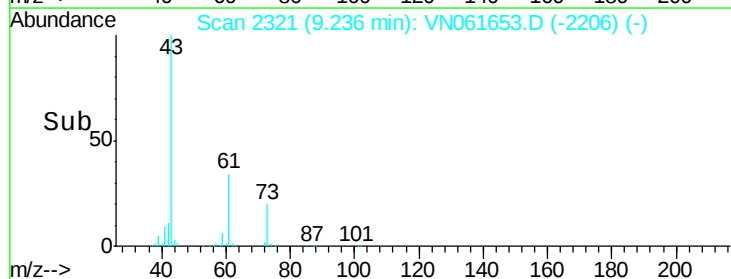
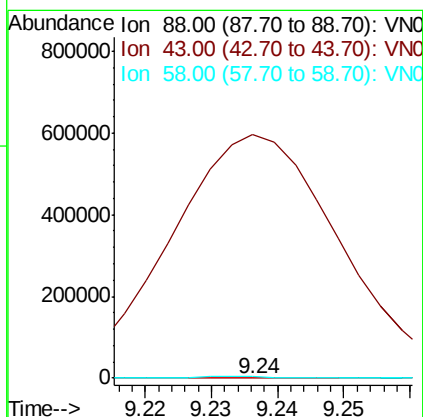
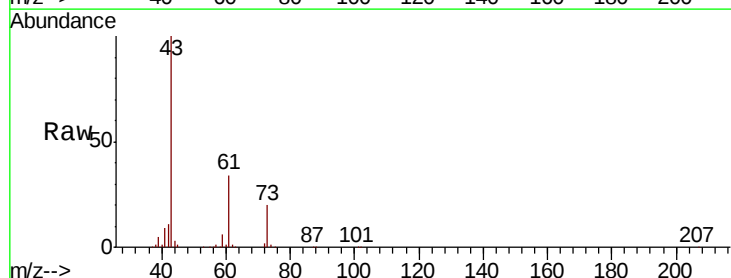
Instrument :
MSVOA_N
ClientSampled :

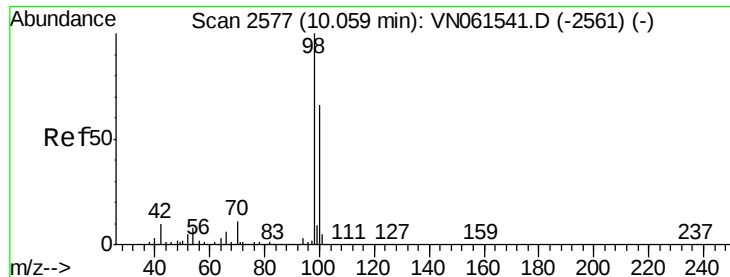
Tot Ion: 41 Resp: 3670
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#49
1,4-Dioxane
Concen: 2.775 ug/l
RT: 9.24 min Scan# 2321
Delta R.T. 0.07 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

Tgt Ion: 88 Resp: 134
Ion Ratio Lower Upper
88 100
43 824958.2 23.1 34.7#
58 3852.2 48.3 72.5#





#50

Toluene-d8

Concen: 51.583 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

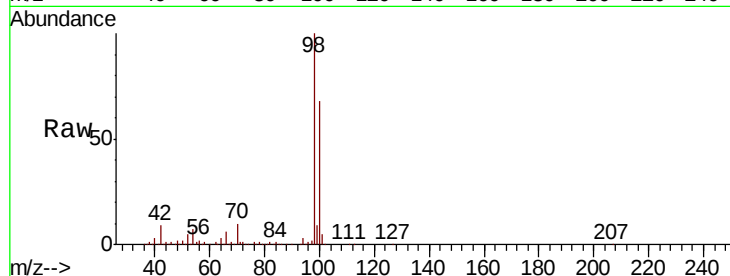
ClientSampled :

Tot Ion: 98 Resp: 654953

Ion Ratio Lower Upper

98 100

100 66.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061541.D (-2561) (-)

10.06

400000

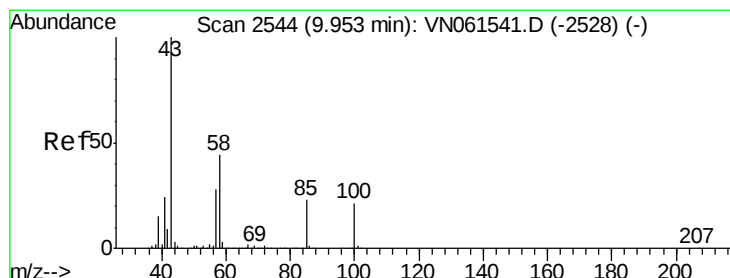
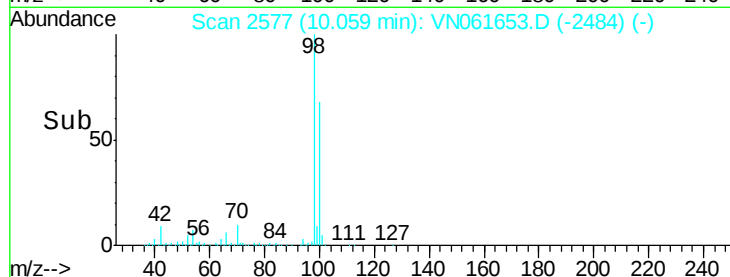
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.934 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061653.D

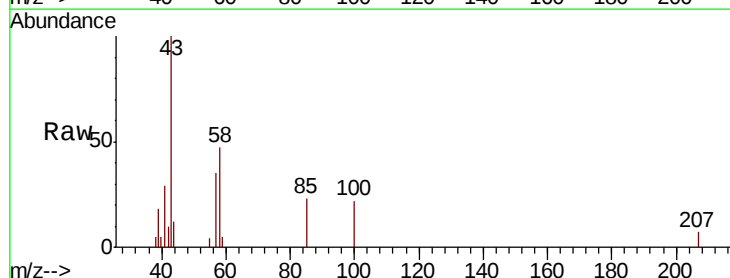
Acq: 4 Jun 2020 15:14

Tgt Ion: 43 Resp: 7550

Ion Ratio Lower Upper

43 100

58 47.2 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN061541.D (-2528) (-)

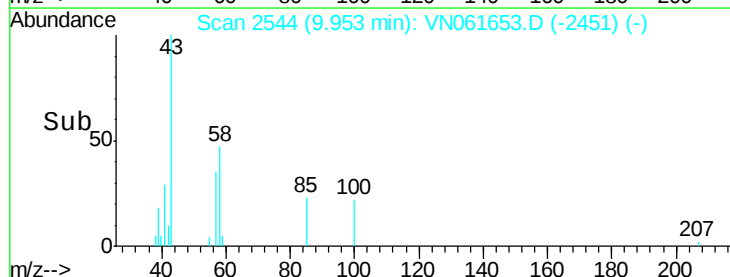
15000

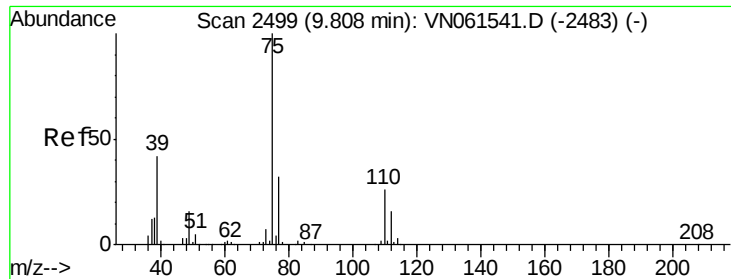
10000

5000

0

Time-->



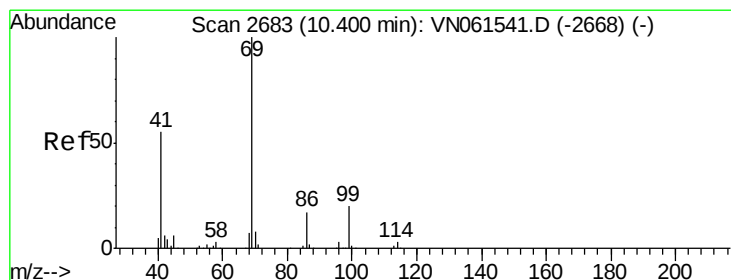
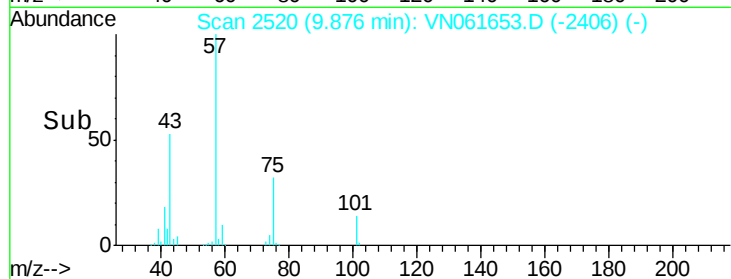
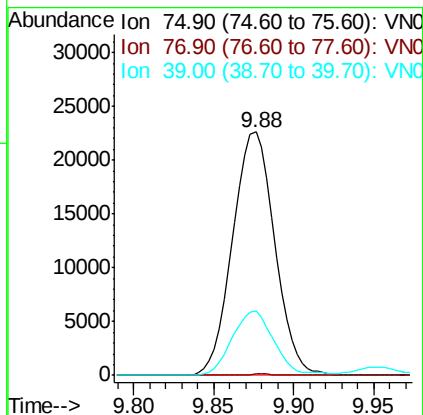
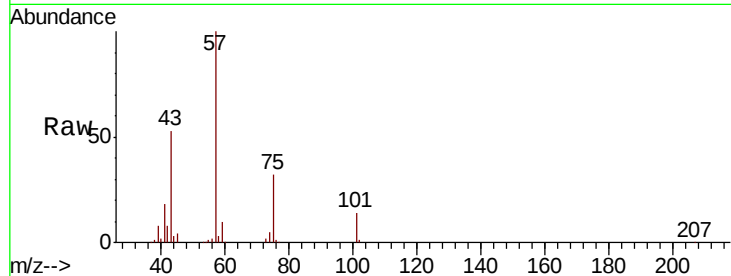


#54

cis-1,3-Dichloropropene
 Concen: 6.568 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061653.D
 Acq: 4 Jun 2020 15:14

Instrument :
 MSVOA_N
 ClientSampleId :

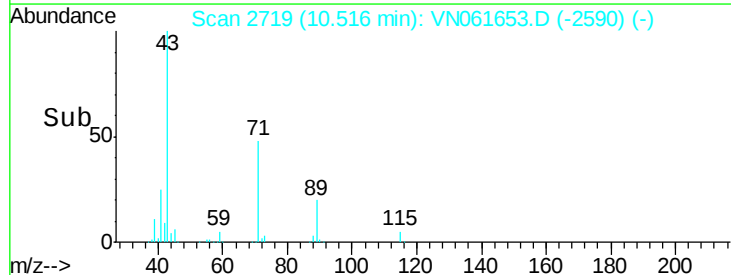
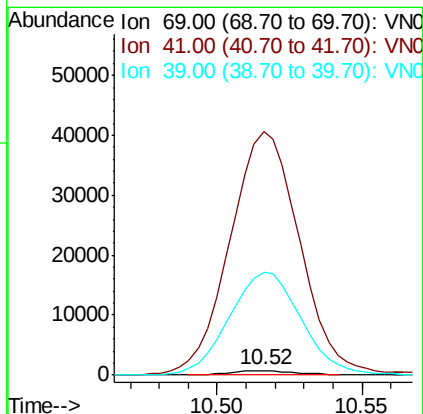
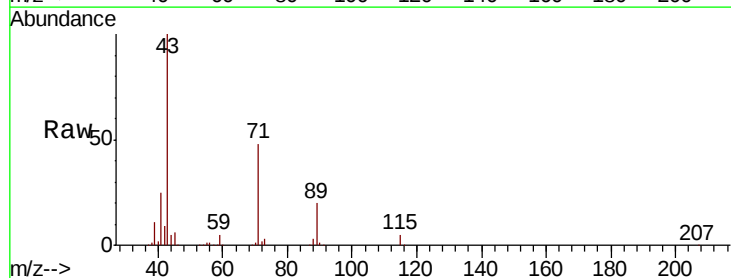
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.4	38.2#
39	26.3	33.8	50.6#

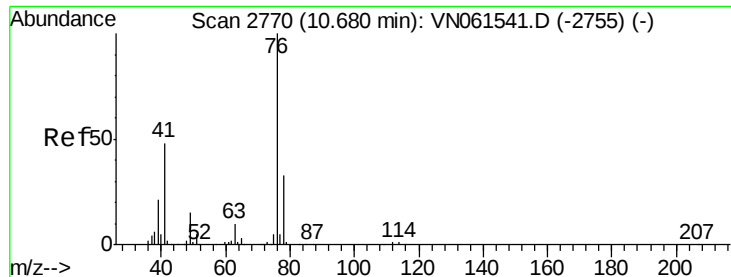


#56

Ethyl methacrylate
 Concen: 0.208 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061653.D
 Acq: 4 Jun 2020 15:14

Tgt Ion	Ratio	Lower	Upper
69	100		
41	6154.3	43.5	65.3#
39	2660.7	27.0	40.6#





#57

1,3-Dichloropropane

Concen: 1.019 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

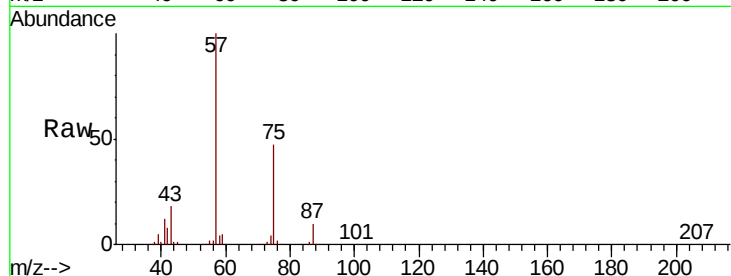
ClientSampleId :

Tot Ion: 76 Resp: 6253

Ion Ratio Lower Upper

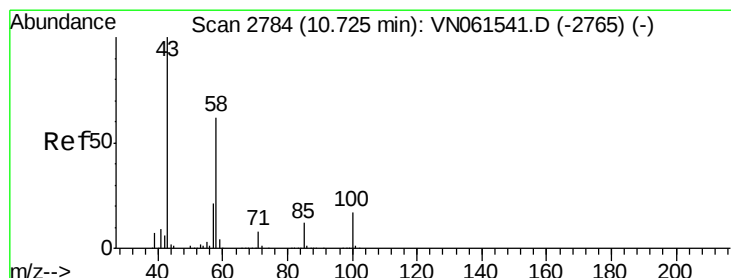
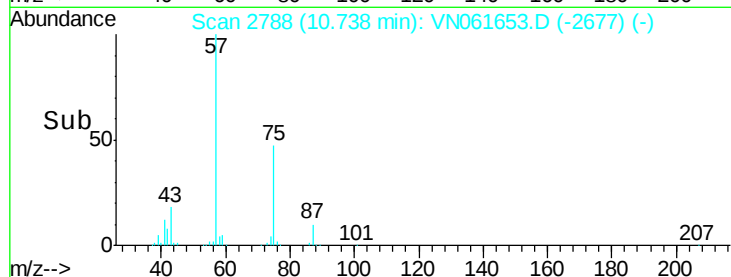
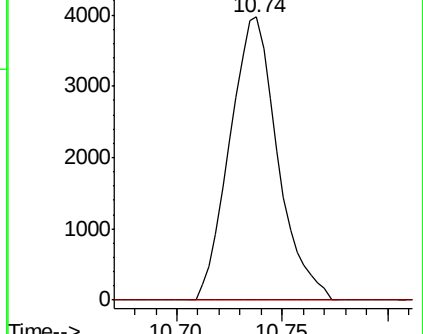
76 100

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: 26.025 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN061653.D

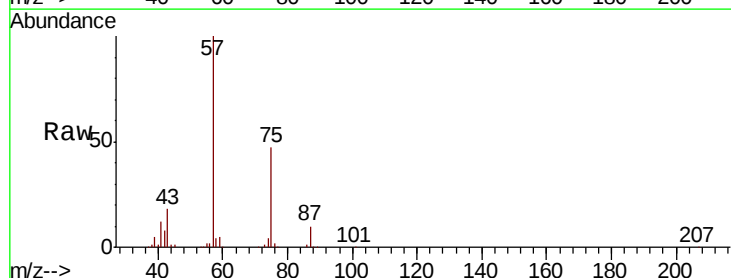
Acq: 4 Jun 2020 15:14

Tgt Ion: 43 Resp: 72974

Ion Ratio Lower Upper

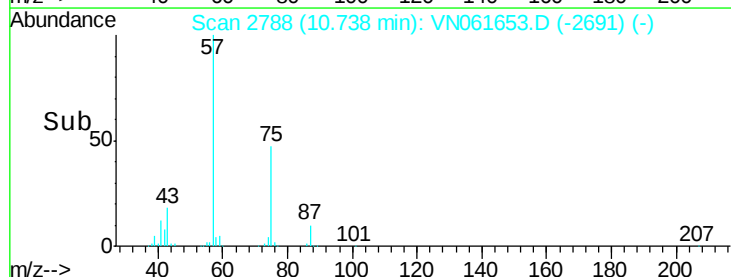
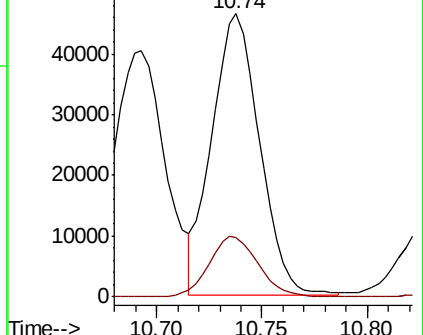
43 100

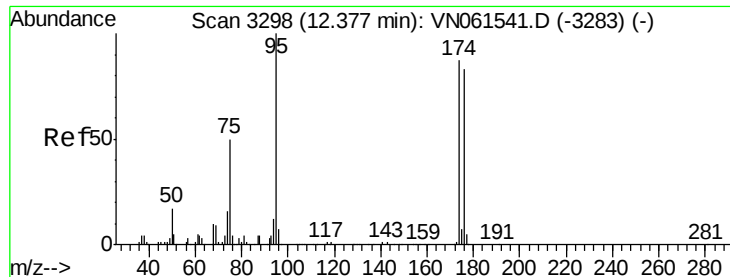
58 22.0 30.7 92.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

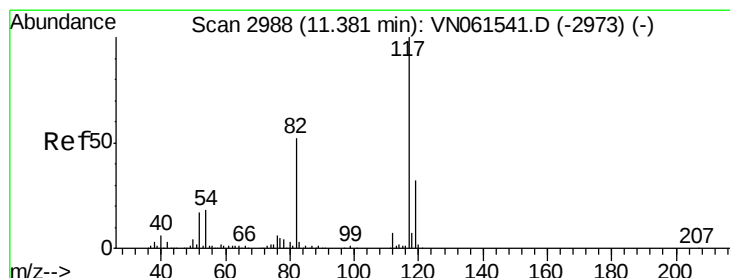
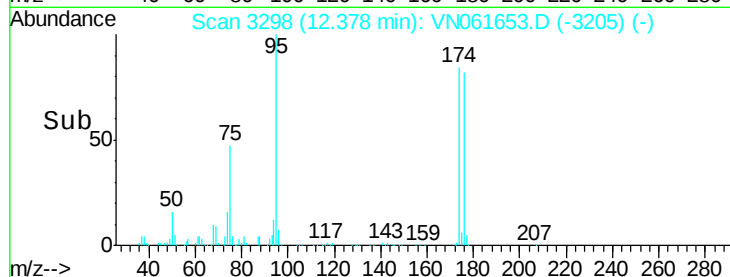
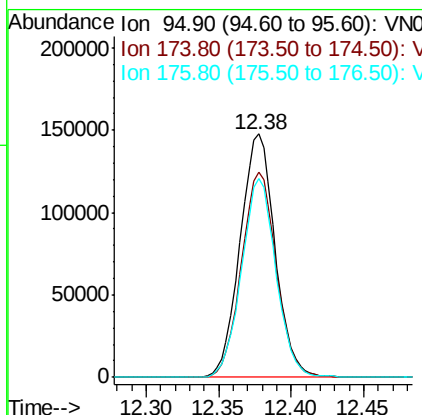
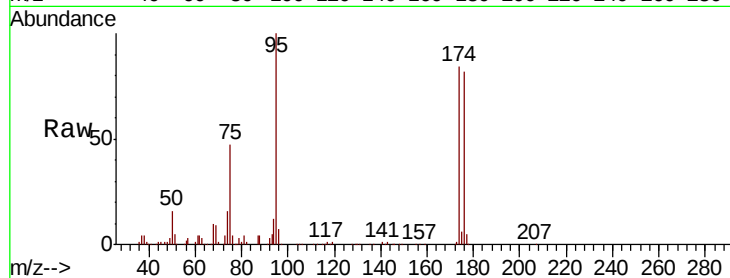




#62
4-Bromofluorobenzene
Concen: 53.537 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

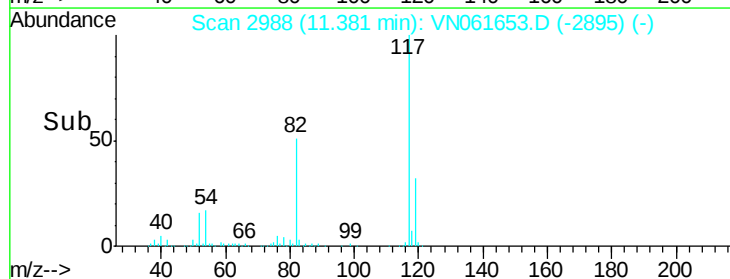
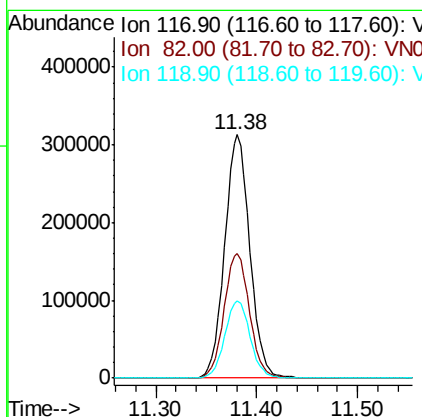
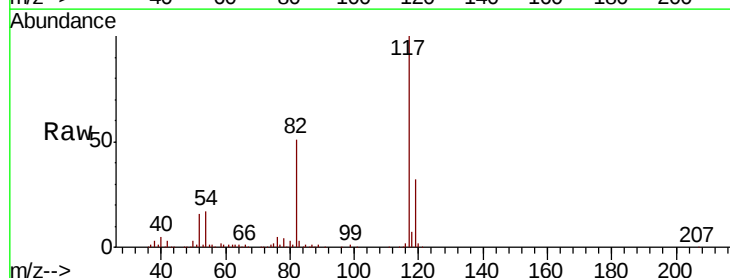
Instrument :
MSVOA_N
ClientSampleId :

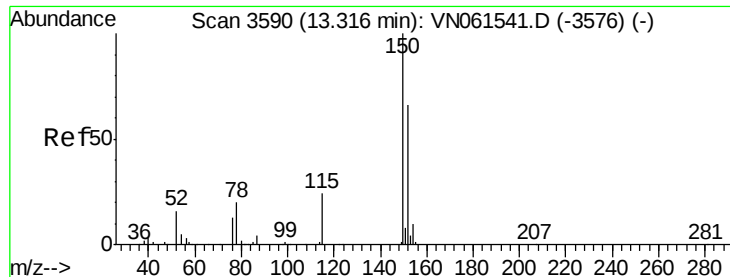
Tot Ion	Ratio	Lower	Upper
95	100		
174	84.1	0.0	172.8
176	80.6	0.0	164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061653.D
Acq: 4 Jun 2020 15:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.5	62.3
119	31.9	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampleId :

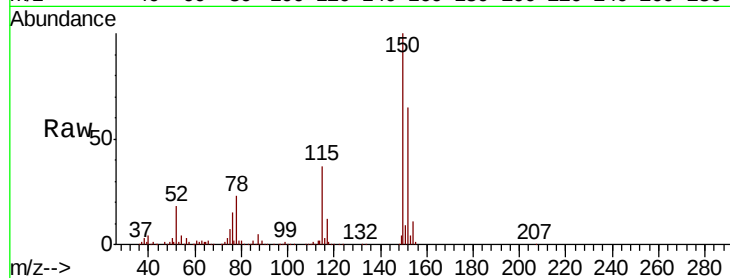
Tot Ion:152 Resp: 251962

Ion Ratio Lower Upper

152 100

115 57.4 28.0 84.0

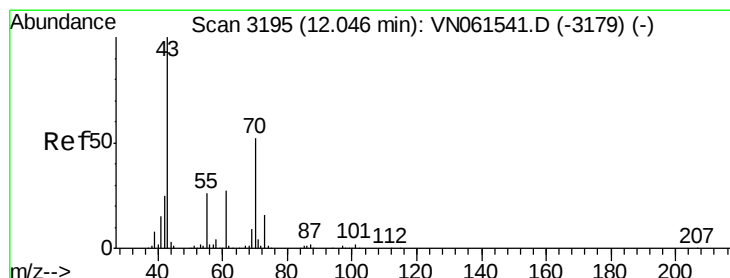
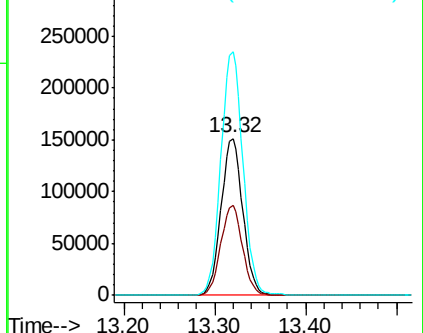
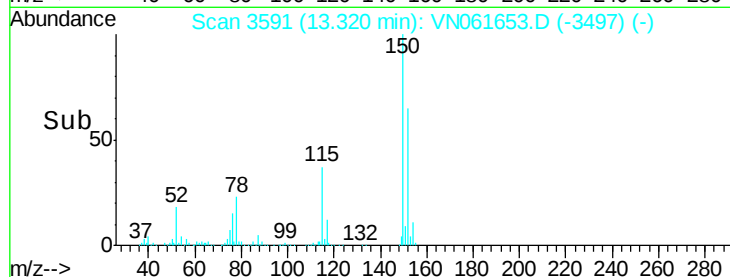
150 157.4 0.0 344.0



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: 0.422 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Tgt Ion: 43 Resp: 2443

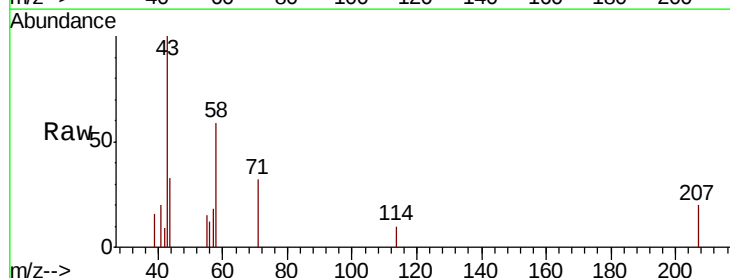
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 12.4 20.6 31.0#

61 0.0 21.8 32.6#

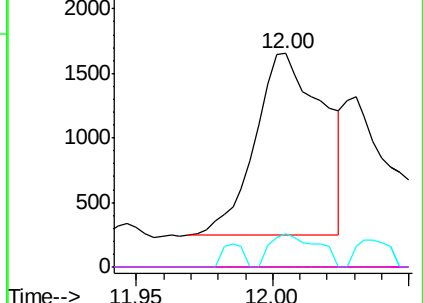
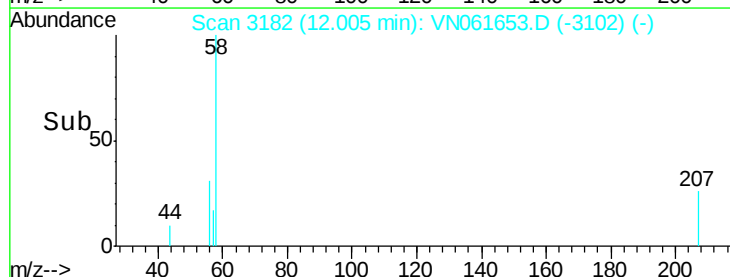


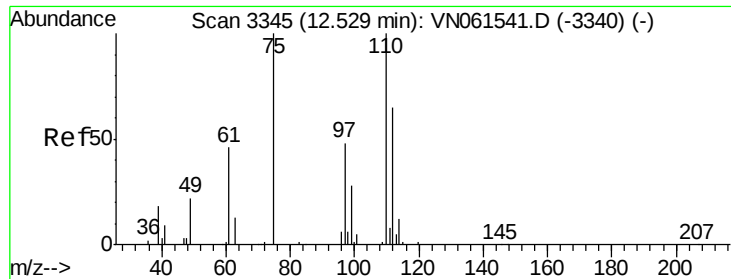
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 25.863 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

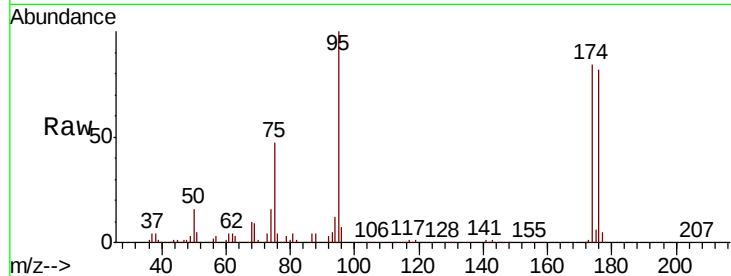
ClientSampleId :

Tot Ion: 75 Resp: 118493

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061541.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061541.D (-3340) (-)

12.38

80000

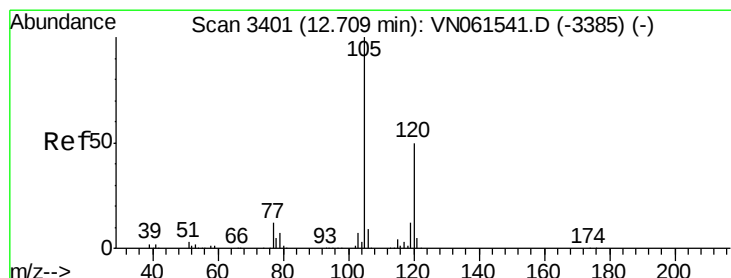
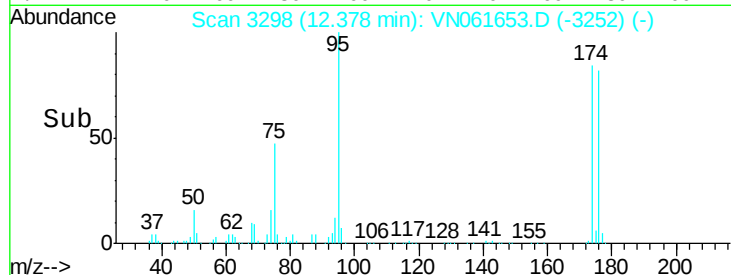
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.376 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061653.D

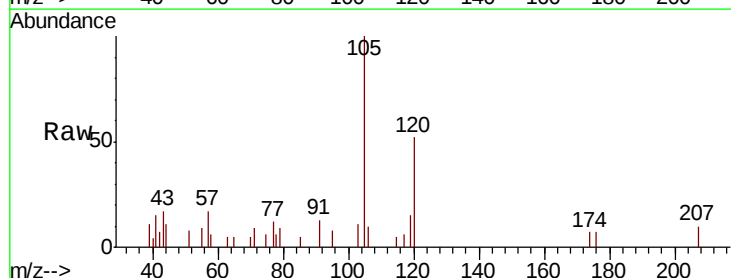
Acq: 4 Jun 2020 15:14

Tgt Ion:105 Resp: 5779

Ion Ratio Lower Upper

105 100

120 54.1 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN061541.D (-3385) (-)

Ion 120.00 (119.70 to 120.70): VN061541.D (-3385) (-)

12.71

4000

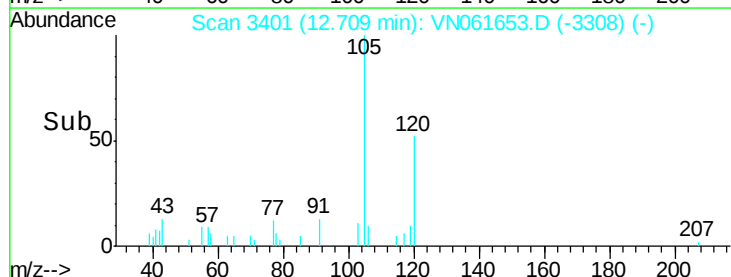
3000

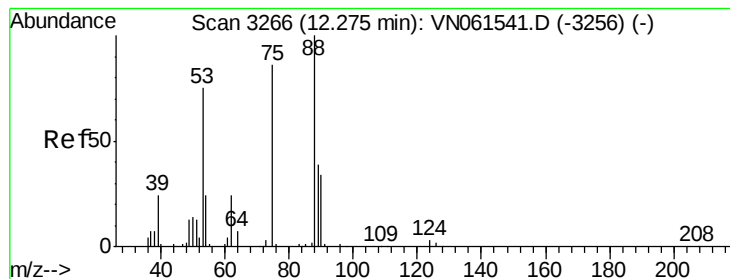
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 66.137 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061653.D

Acq: 4 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampleId :

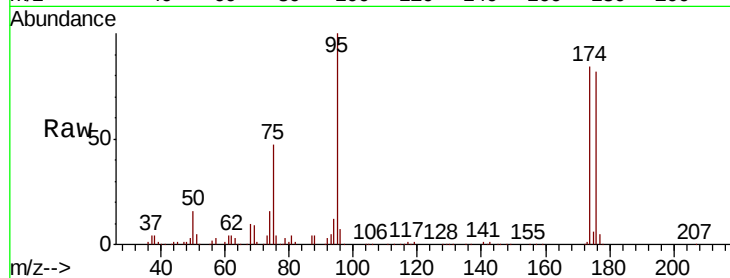
Tot Ion: 75 Resp: 118493

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 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

