

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061932.D
 Acq On : 19 Jun 2020 5:18
 Operator : JC/MD
 Sample : PB129596ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Quant Time: Jun 19 07:35:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	142576	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	275505	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	270480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	101949	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	98236	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
35) Dibromofluoromethane	7.55	113	85460	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
50) Toluene-d8	10.06	98	345263	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
62) 4-Bromofluorobenzene	12.38	95	112386	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	

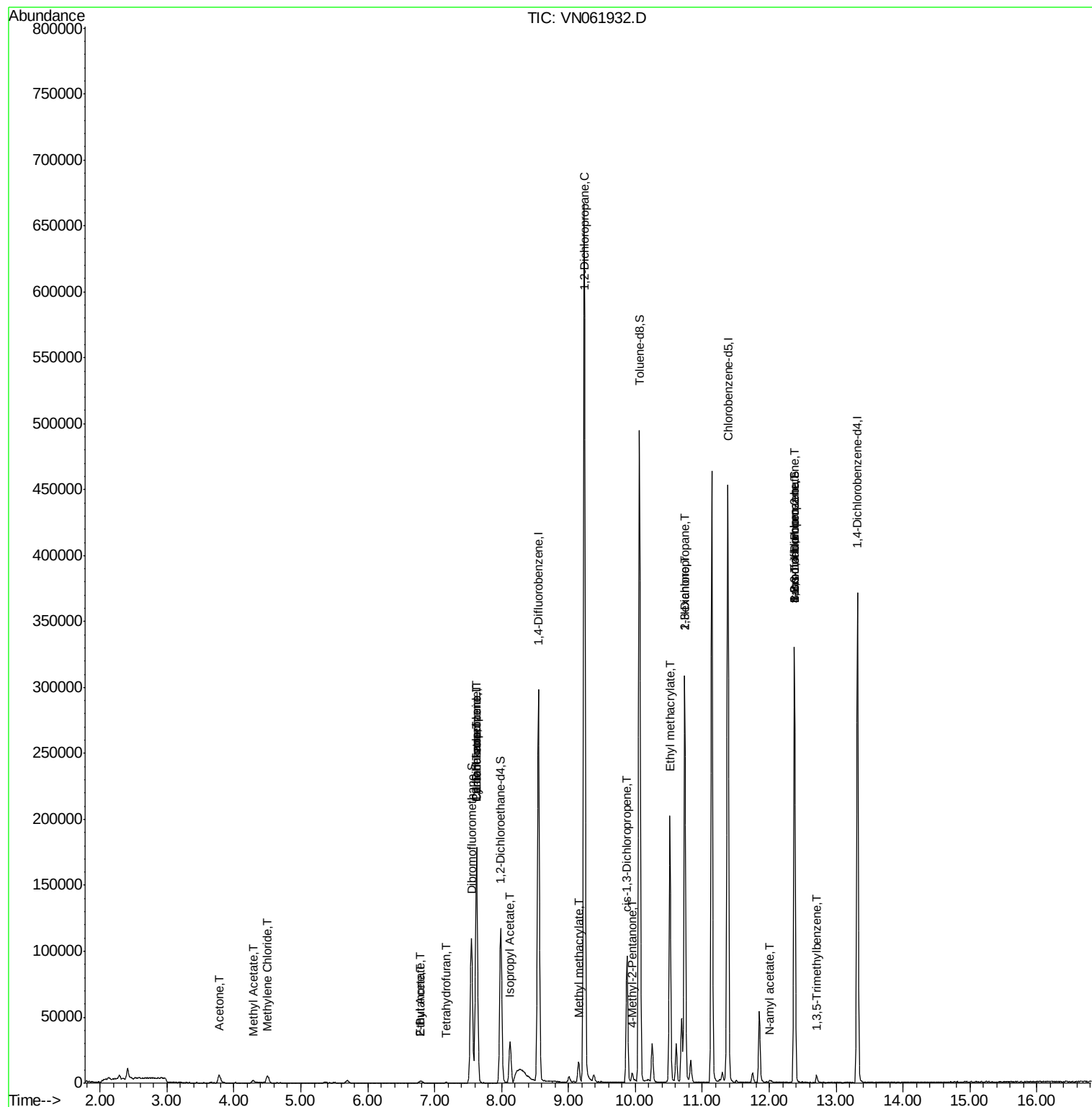
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	10580	18.732	ug/l	92
18) Methyl Acetate	4.28	43	3550	2.183	ug/l #	77
20) Methylene Chloride	4.50	84	4497	2.444	ug/l	92
25) 2-Butanone	6.79	43	2297	2.787	ug/l #	84
29) Tetrahydrofuran	7.17	42	416	0.767	ug/l #	26
31) Cyclohexane	7.63	56	2945	1.169	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	11232	4.470	ug/l #	48
37) Ethyl Acetate	6.79	43	2297	1.171	ug/l #	65
38) Carbon Tetrachloride	7.63	117	13959	5.609	ug/l #	16
43) Isopropyl Acetate	8.13	43	34223	10.349	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	710	0.380	ug/l #	43
48) Methyl methacrylate	9.14	41	2140	1.423	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	3872	1.981	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	18131	5.829	ug/l #	68
56) Ethyl methacrylate	10.52	69	806	3.167	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3486	1.094	ug/l #	42
59) 2-Hexanone	10.74	43	39893	37.588	ug/l #	50
71) Bromoform	12.38	173	891	0.614	ug/l #	1
74) N-amyl acetate	12.00	43	1068	3.446	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	56810	28.384	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3729	0.622	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	56810	77.414	ug/l #	14

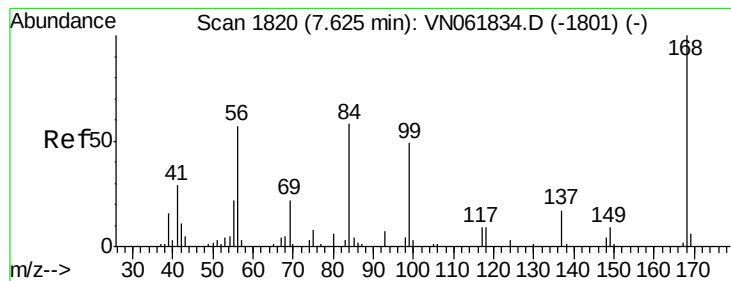
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 19 07:35:11 2020
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Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 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: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampleId :

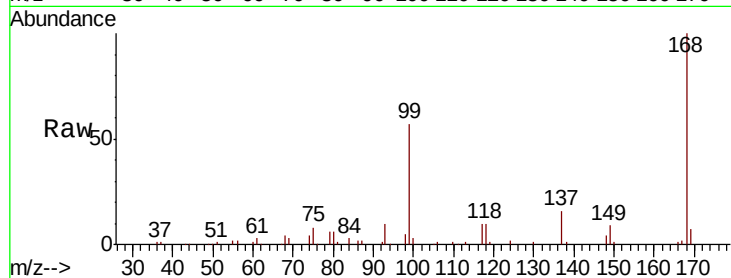
BFB

Tot Ion:168 Resp: 142576

Ion Ratio Lower Upper

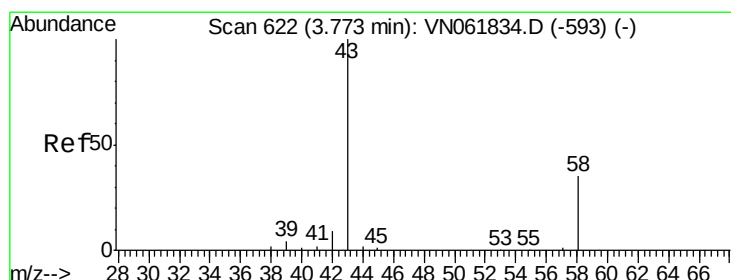
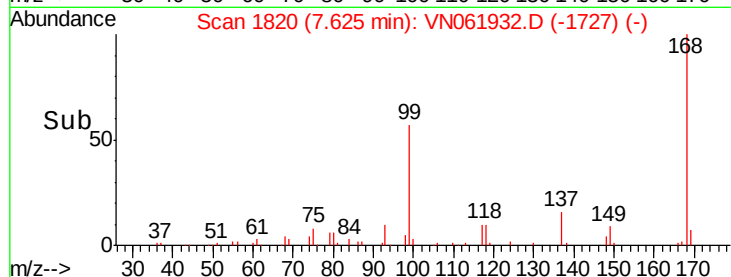
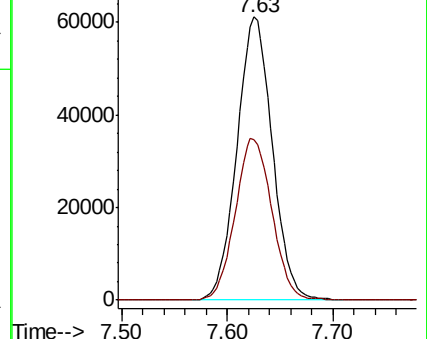
168 100

99 56.7 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 18.732 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061932.D

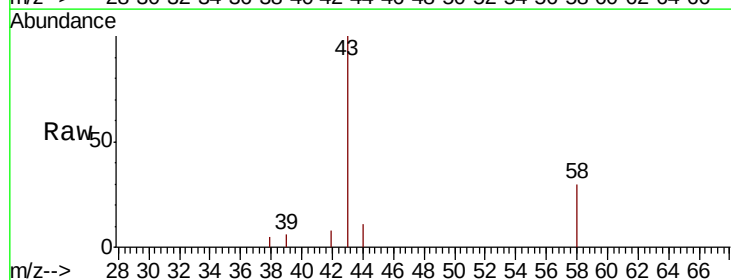
Acq: 19 Jun 2020 5:18

Tgt Ion: 43 Resp: 10580

Ion Ratio Lower Upper

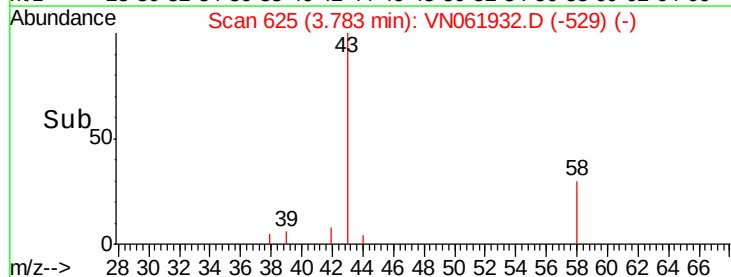
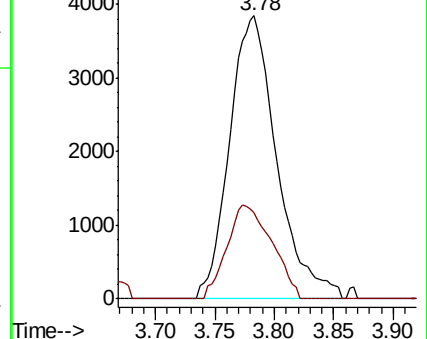
43 100

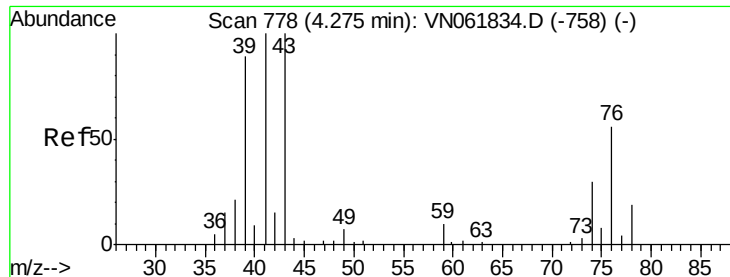
58 30.4 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

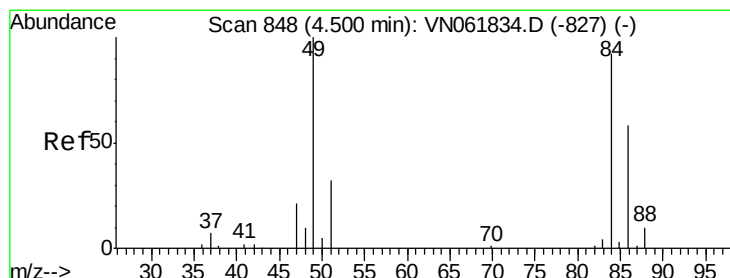
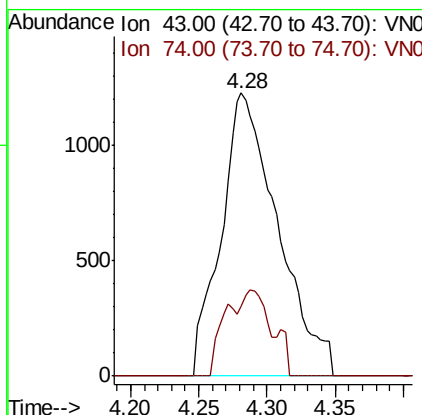
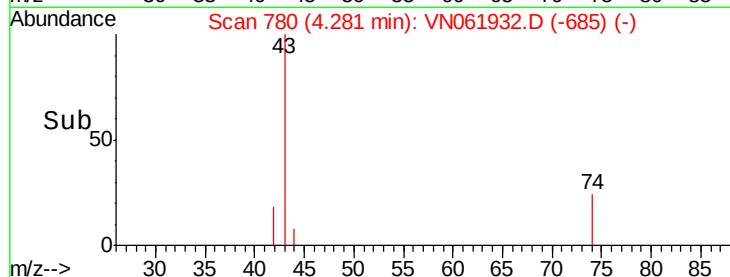
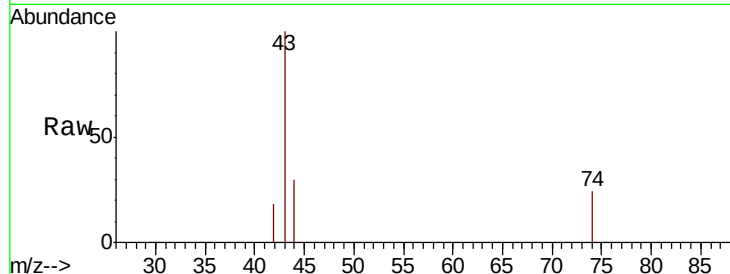




#18
Methyl Acetate
Concen: 2.183 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

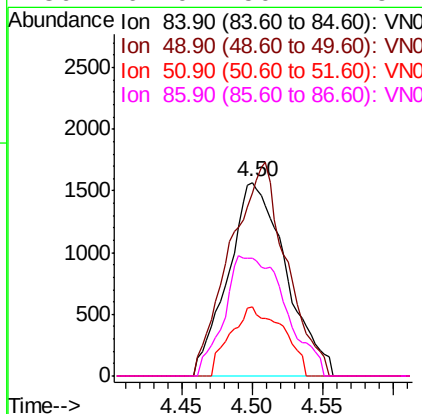
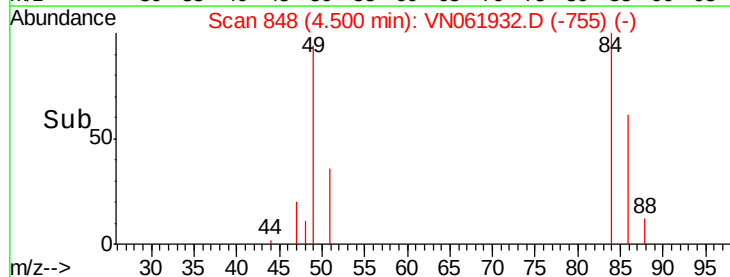
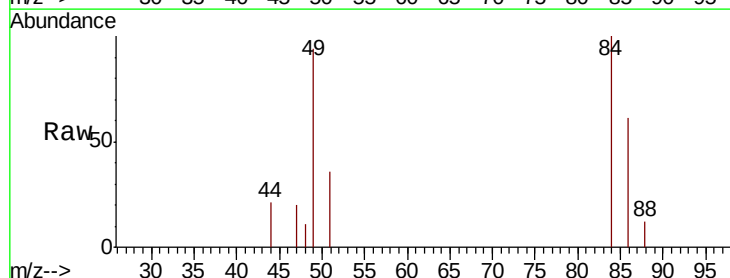
Instrument :
MSVOA_N
ClientSampled :
BFB

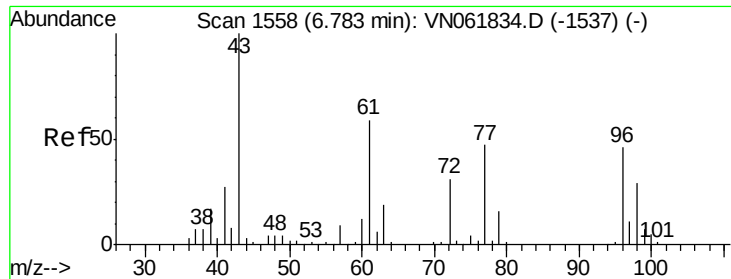
Tot Ion: 43 Resp: 3550
Ion Ratio Lower Upper
43 100
74 16.3 23.0 34.4#



#20
Methylene Chloride
Concen: 2.444 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Tgt Ion: 84 Resp: 4497
Ion Ratio Lower Upper
84 100
49 94.4 87.0 130.4
51 35.7 27.8 41.6
86 61.0 50.2 75.2

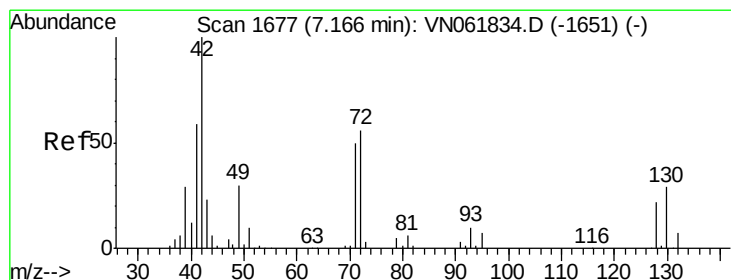
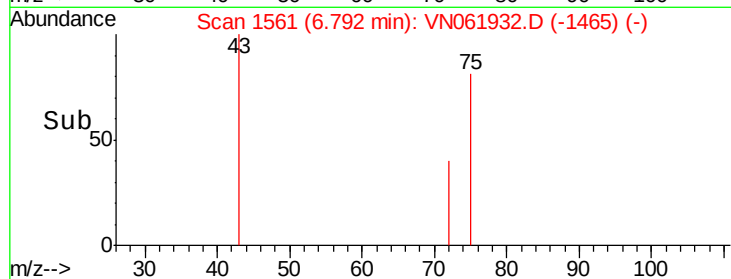
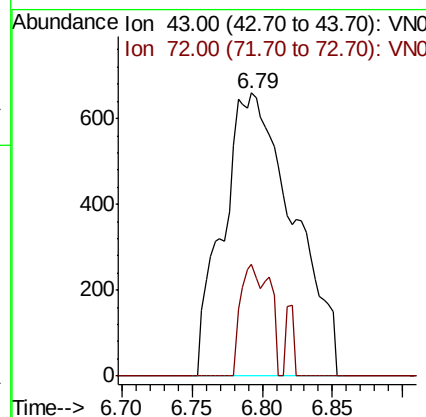
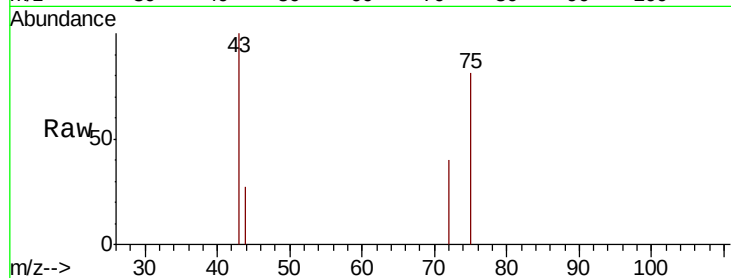




#25
2-Butanone
Concen: 2.787 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

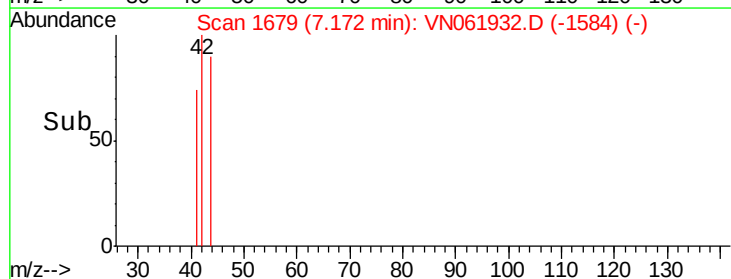
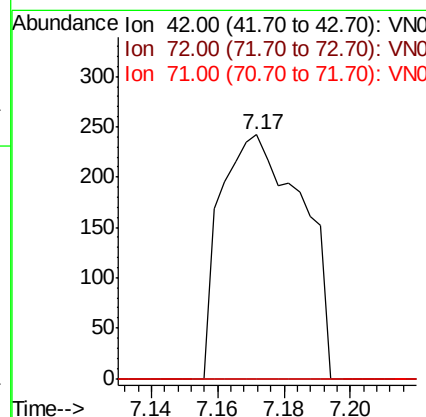
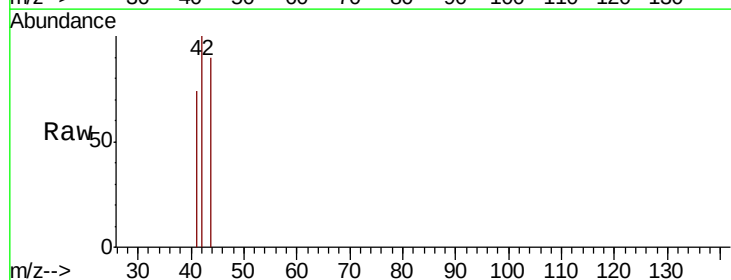
Instrument :
MSVOA_N
ClientSampled :
BFB

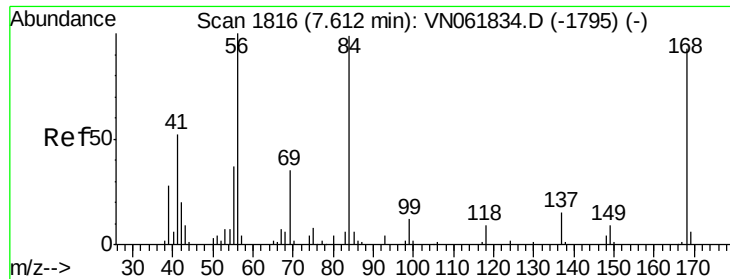
Tot Ion: 43 Resp: 2297
Ion Ratio Lower Upper
43 100
72 39.6 24.6 37.0#



#29
Tetrahydrofuran
Concen: 0.767 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Tgt Ion: 42 Resp: 416
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 40.0 60.0#

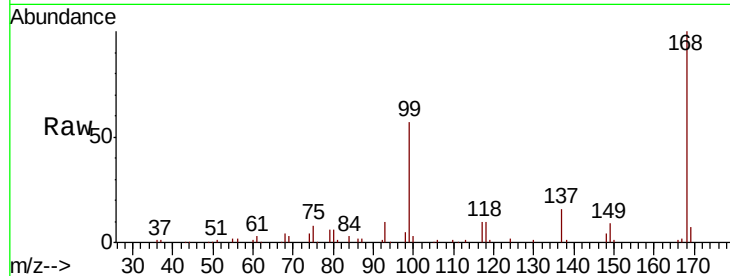




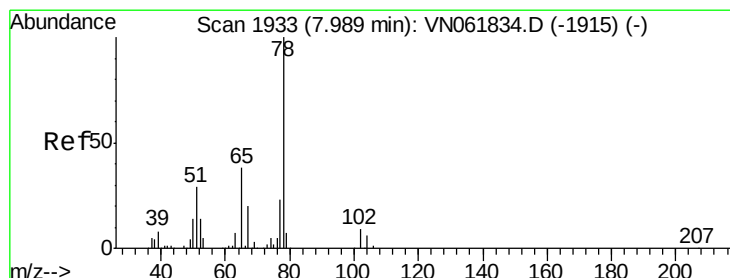
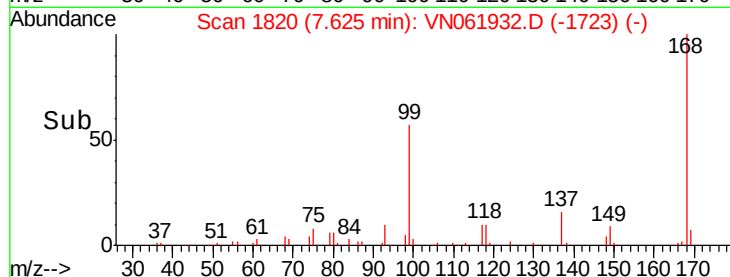
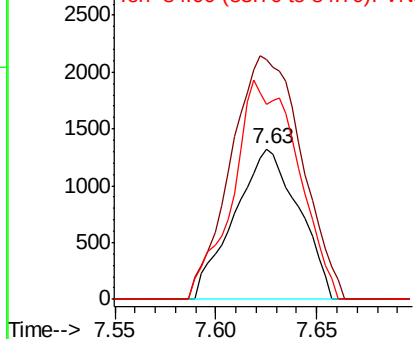
#31
Cyclohexane
Concen: 1.169 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Instrument :
MSVOA_N
ClientSampled :
BFB

Tot Ion: 56 Resp: 2945
Ion Ratio Lower Upper
56 100
69 158.7 27.7 41.5#
84 129.3 79.1 118.7#

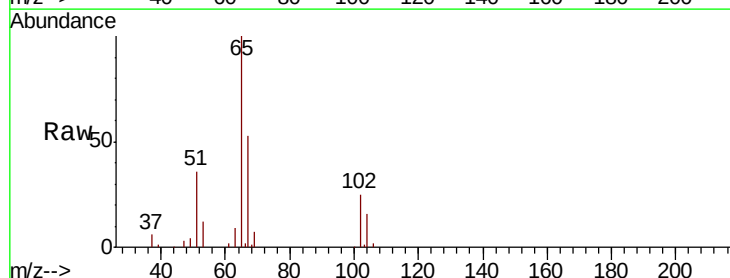


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

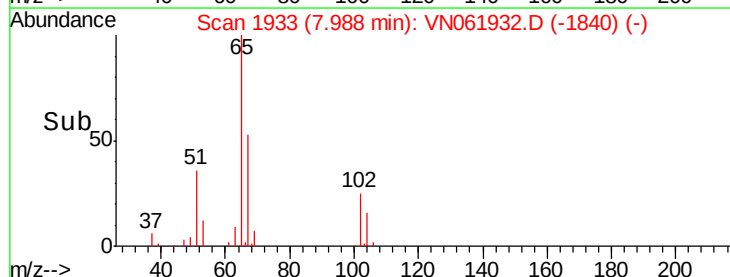
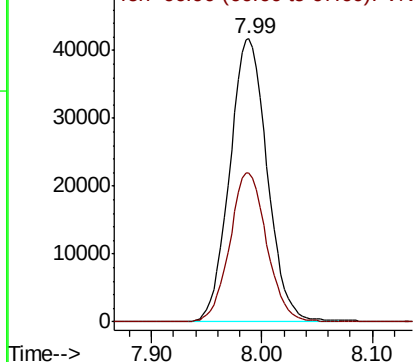


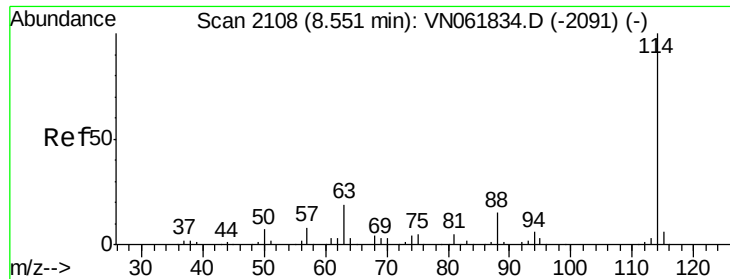
#33
1,2-Dichloroethane-d4
Concen: 51.375 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Tgt Ion: 65 Resp: 98236
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

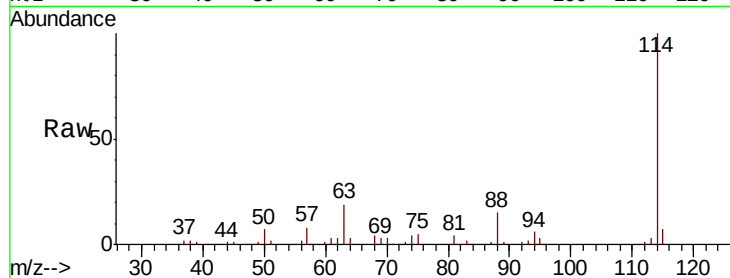




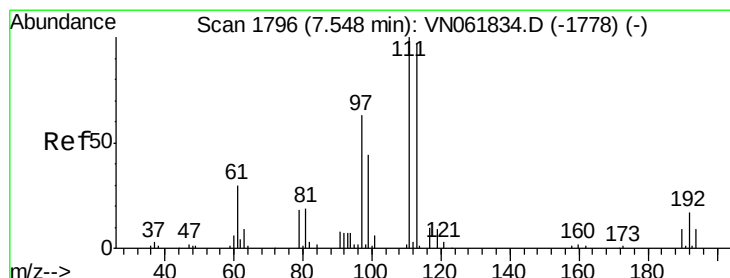
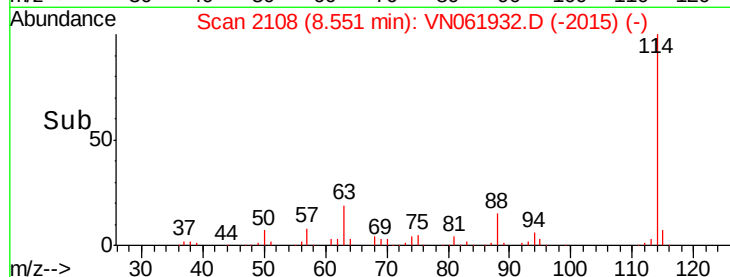
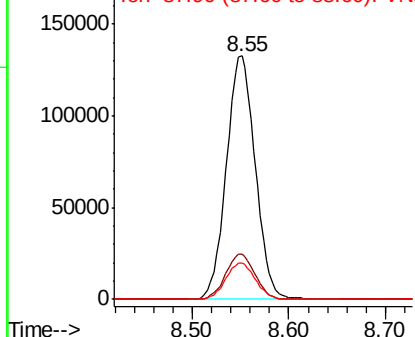
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tot Ion:114 Resp: 275505
Ion Ratio Lower Upper
114 100
63 18.6 0.0 37.6
88 14.8 0.0 31.0

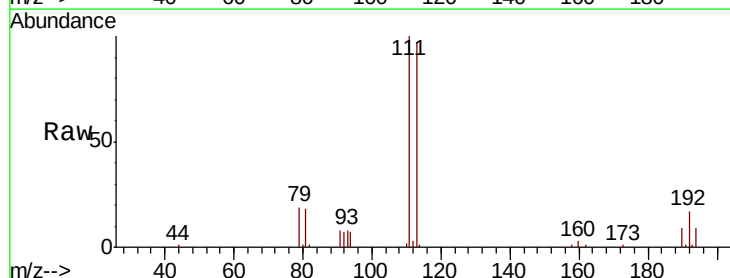


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

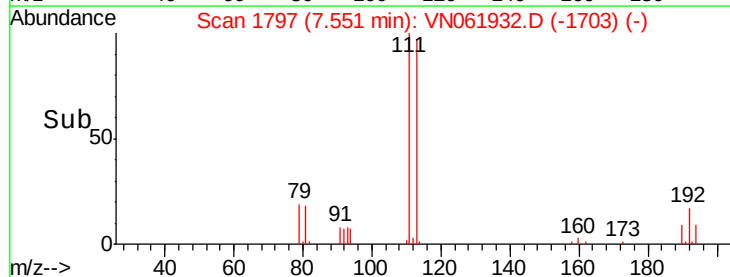
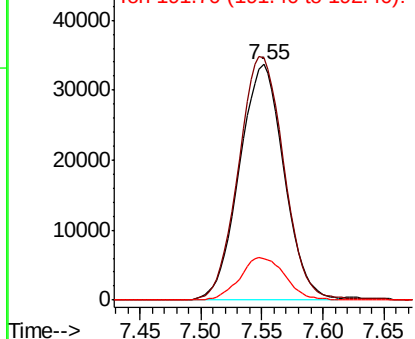


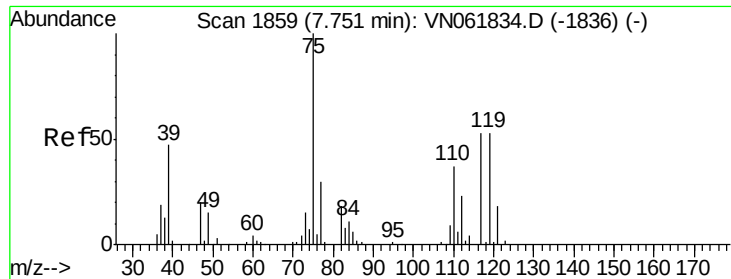
#35
Dibromofluoromethane
Concen: 48.487 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Tgt Ion:113 Resp: 85460
Ion Ratio Lower Upper
113 100
111 104.8 83.7 125.5
192 18.1 13.9 20.9



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

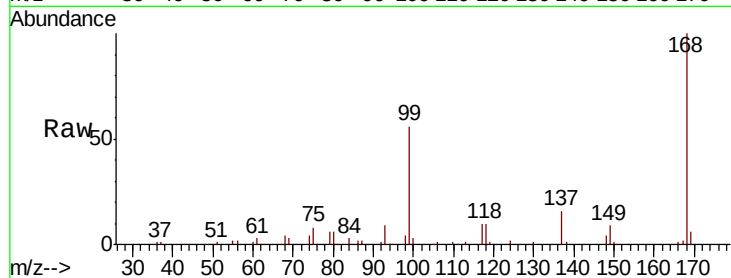




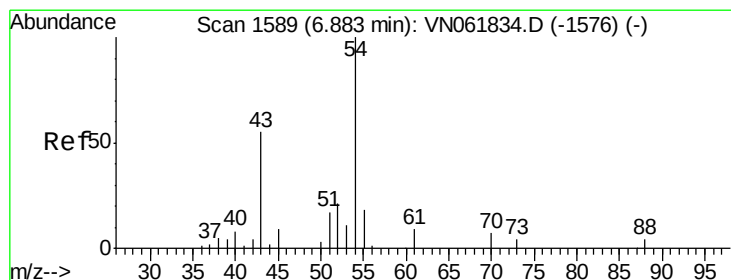
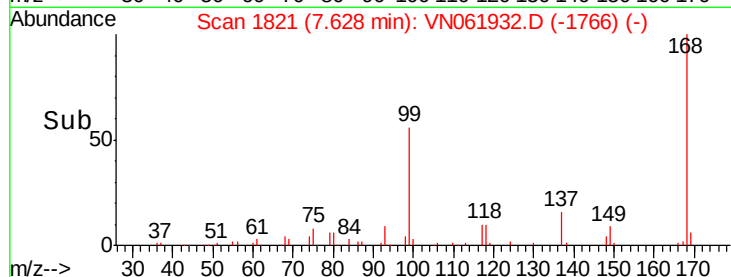
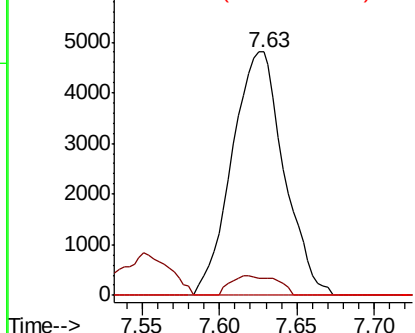
#36
 1,1-Dichloropropene
 Concen: 4.470 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061932.D
 Acq: 19 Jun 2020 5:18

Instrument :
 MSVOA_N
 ClientSampled :
 BFB

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.2	18.2	54.6#
77	0.0	24.2	36.4#

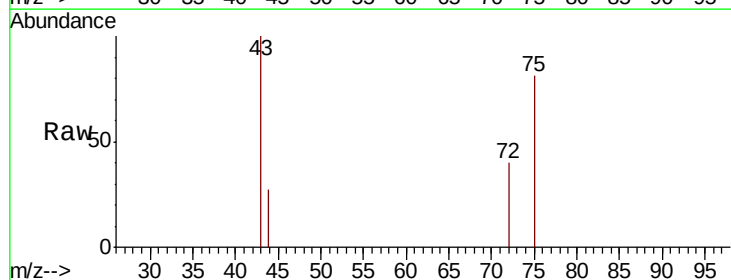


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

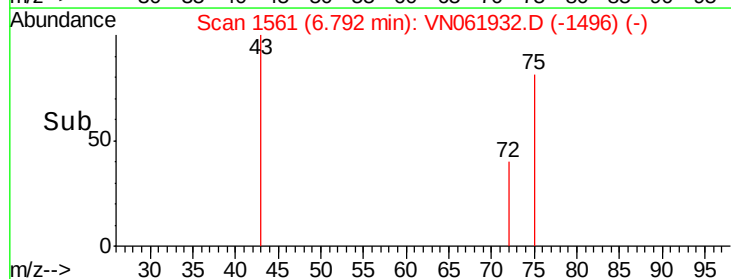
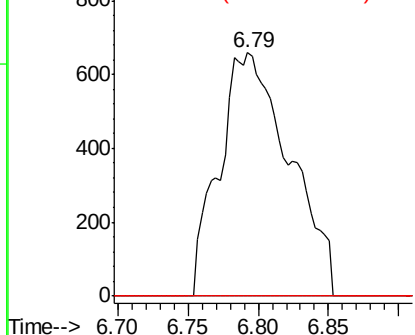


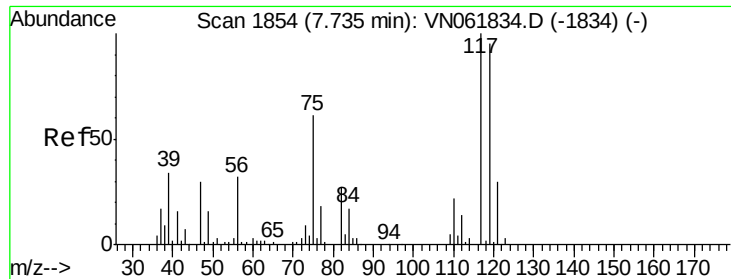
#37
 Ethyl Acetate
 Concen: 1.171 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.09 min
 Lab File: VN061932.D
 Acq: 19 Jun 2020 5:18

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.0	19.4#
70	0.0	9.4	14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.609 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampled :

BFB

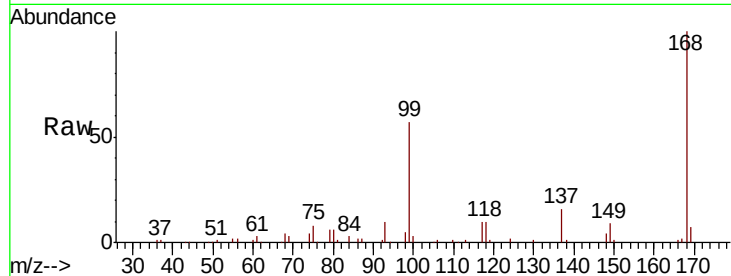
Tot Ion:117 Resp: 13959

Ion Ratio Lower Upper

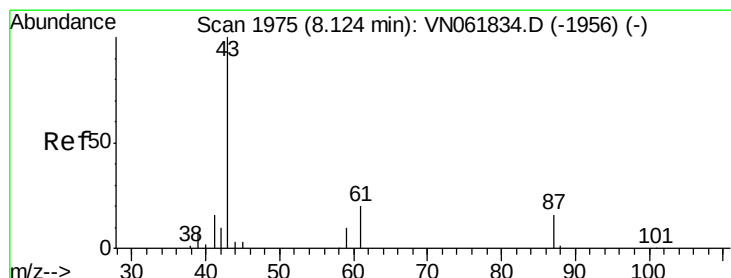
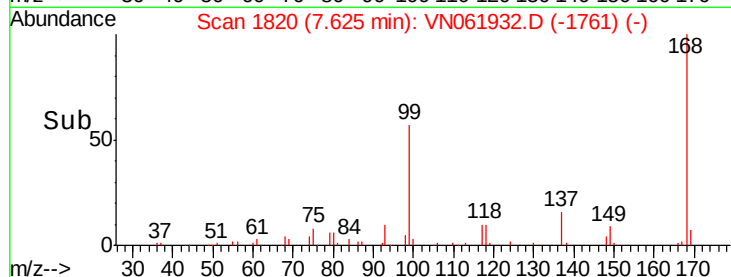
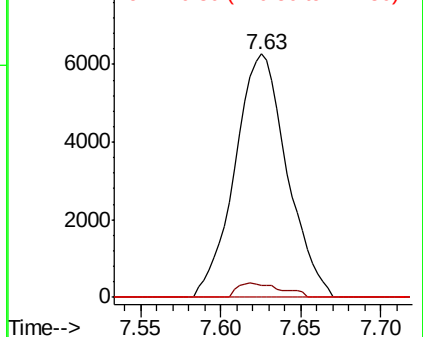
117 100

119 4.9 75.8 113.6#

121 0.0 23.8 35.6#



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



#43

Isopropyl Acetate

Concen: 10.349 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

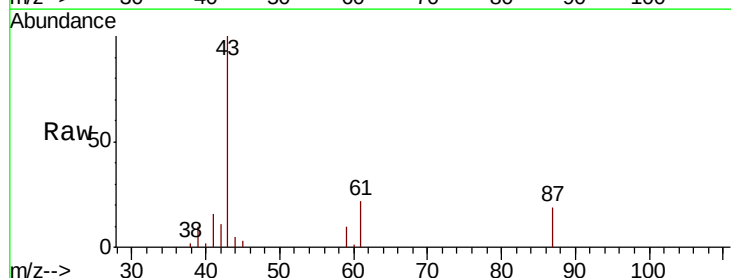
Tgt Ion: 43 Resp: 34223

Ion Ratio Lower Upper

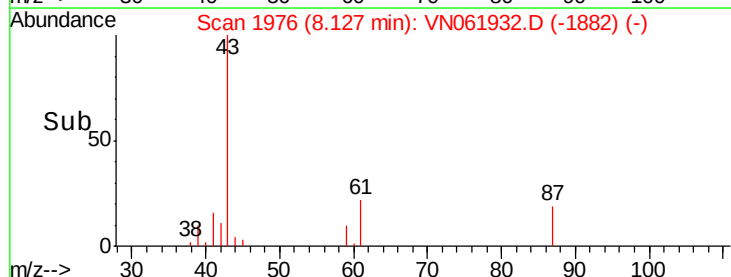
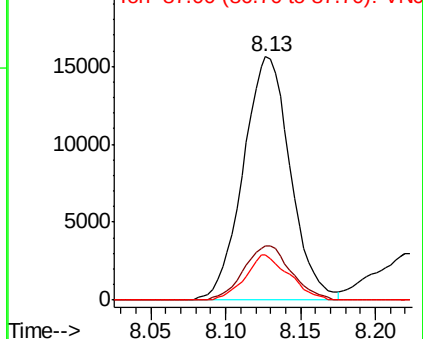
43 100

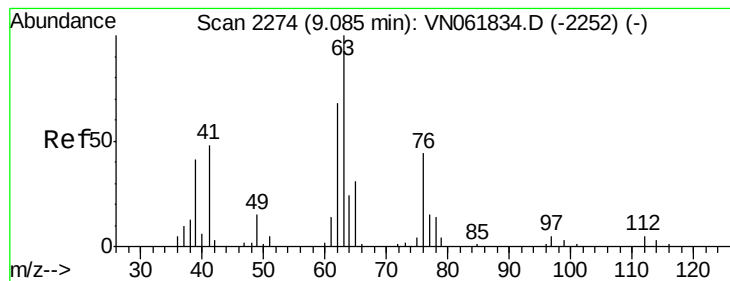
61 22.3 24.0 36.0#

87 17.2 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.380 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampleId :

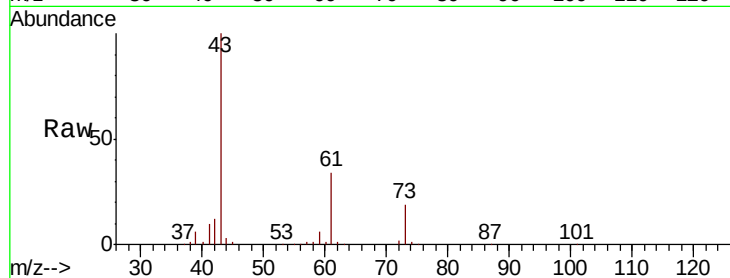
BFB

Tot Ion: 63 Resp: 710

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

400

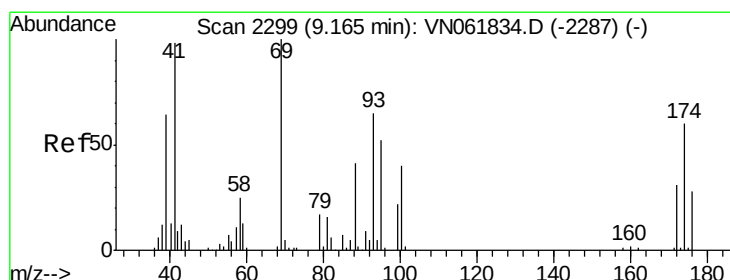
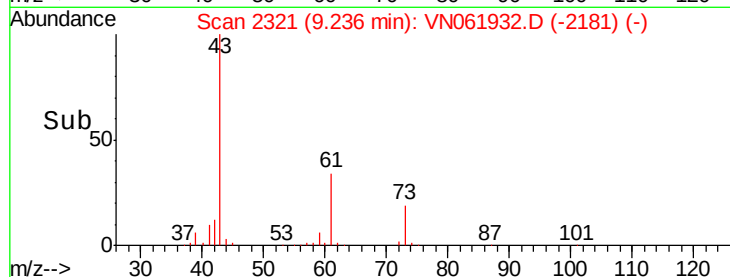
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.423 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

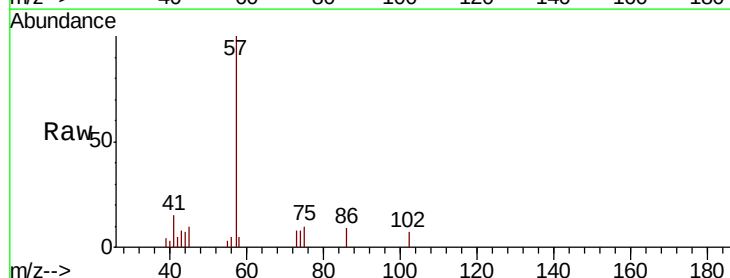
Tgt Ion: 41 Resp: 2140

Ion Ratio Lower Upper

41 100

69 0.0 83.0 124.4#

39 0.0 55.1 82.7#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

12000

10000

8000

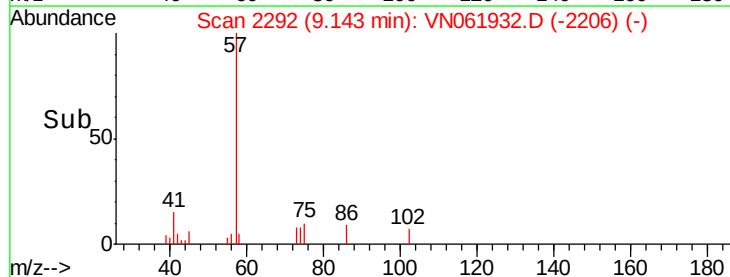
6000

4000

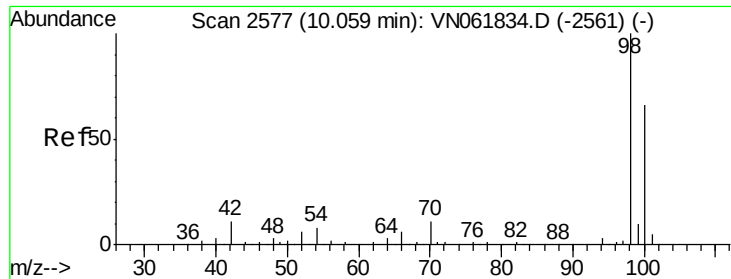
2000

0

Time-->



Time-->



#50

Toluene-d8

Concen: 49.827 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampled :

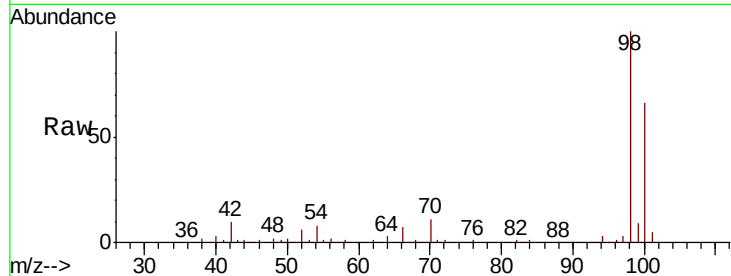
BFB

Tot Ion: 98 Resp: 345263

Ion Ratio Lower Upper

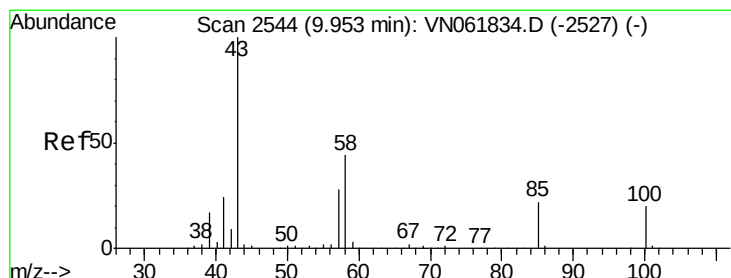
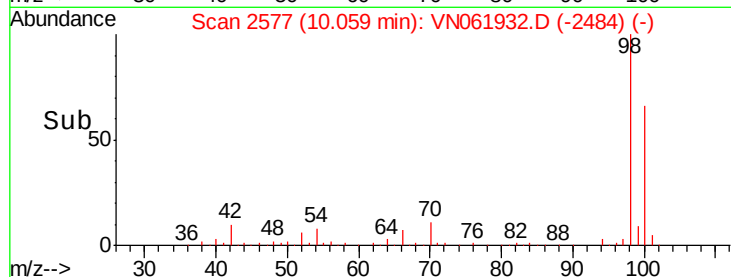
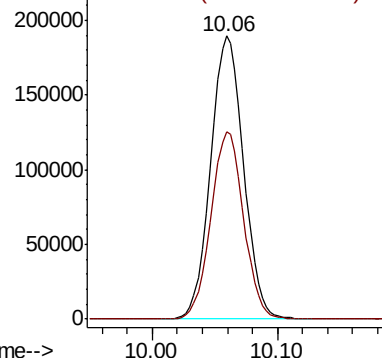
98 100

100 66.0 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.981 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061932.D

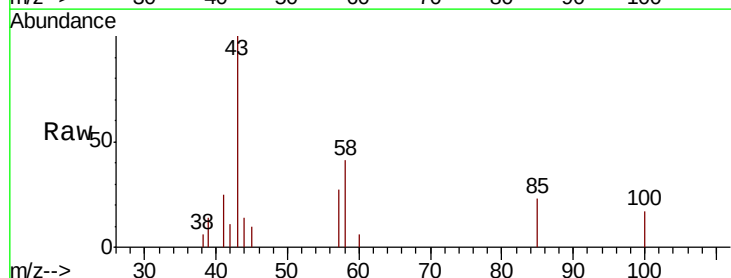
Acq: 19 Jun 2020 5:18

Tgt Ion: 43 Resp: 3872

Ion Ratio Lower Upper

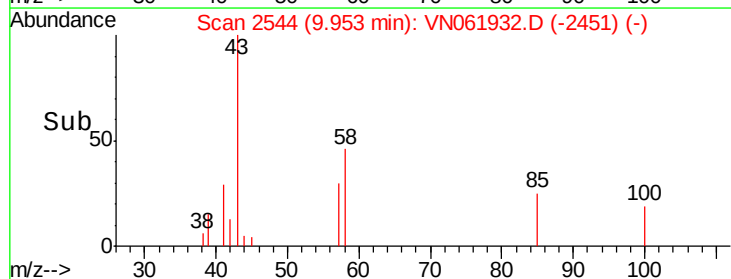
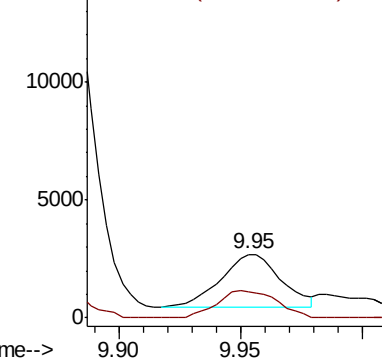
43 100

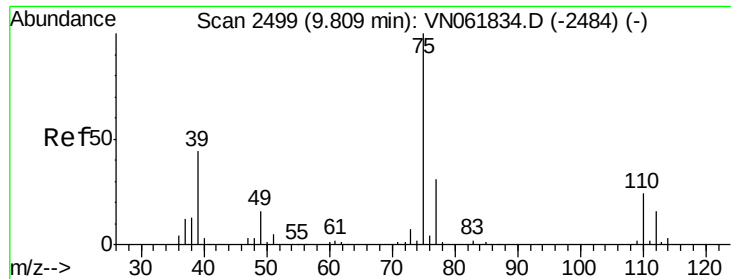
58 50.6 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



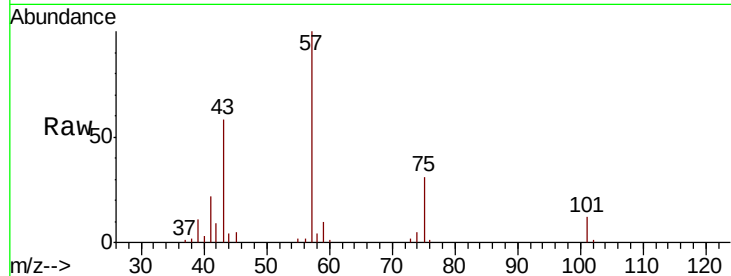


#54

cis-1,3-Dichloropropene
Concen: 5.829 ug/l
RT: 9.87 min Scan# 2519
Delta R.T. 0.06 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Instrument :
MSVOA_N
ClientSampled :
BFB

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	34.5	35.4	53.0#

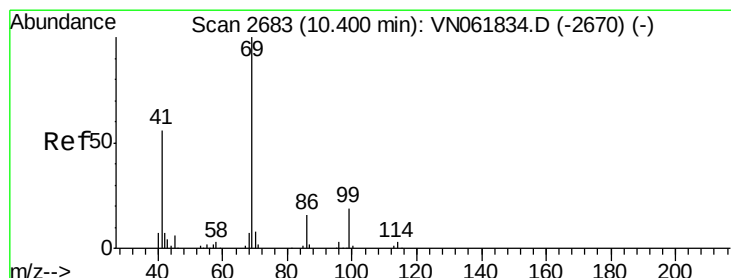
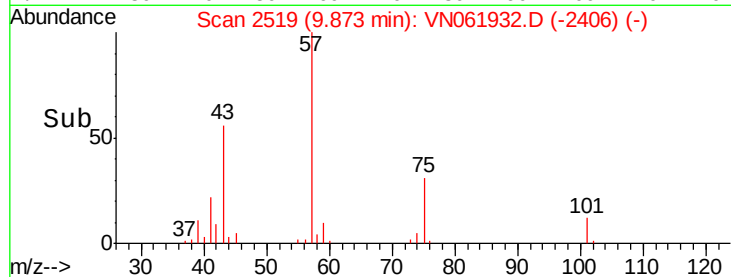
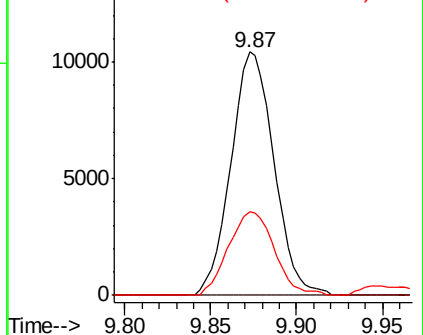


Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

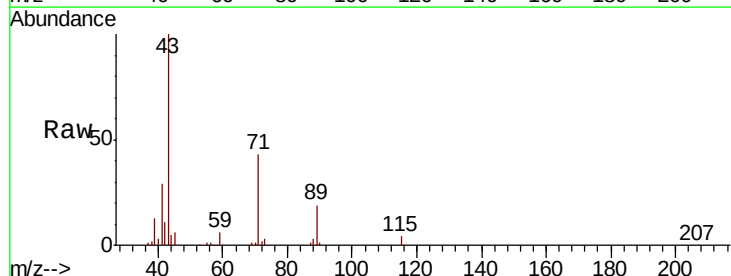
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate
Concen: 3.167 ug/l
RT: 10.52 min Scan# 2719
Delta R.T. 0.12 min
Lab File: VN061932.D
Acq: 19 Jun 2020 5:18

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4787.6	44.9	67.3#
39	2165.1	30.0	45.0#

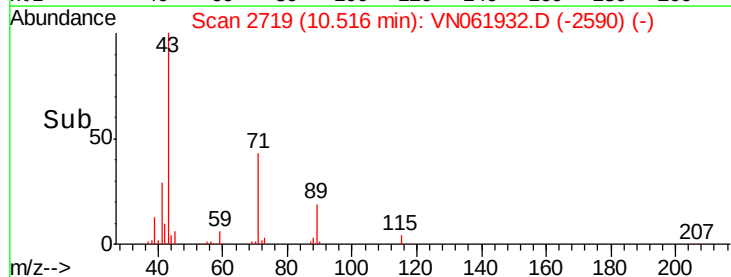
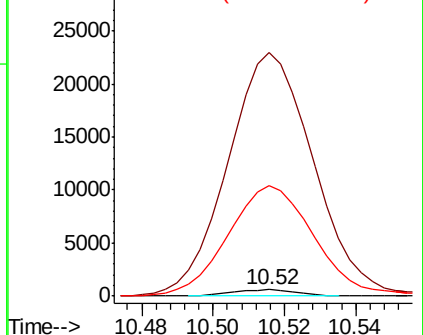


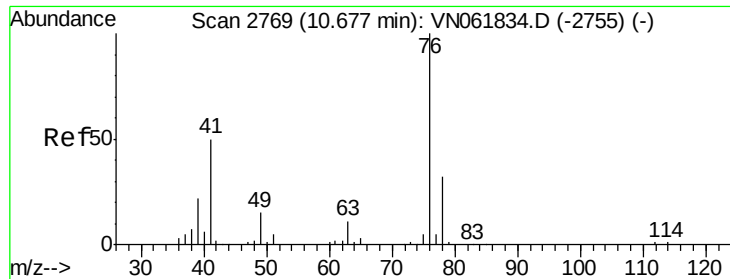
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

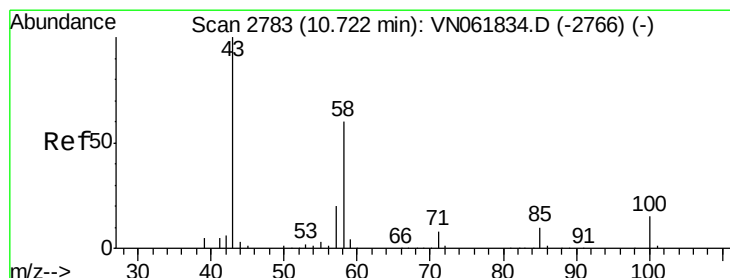
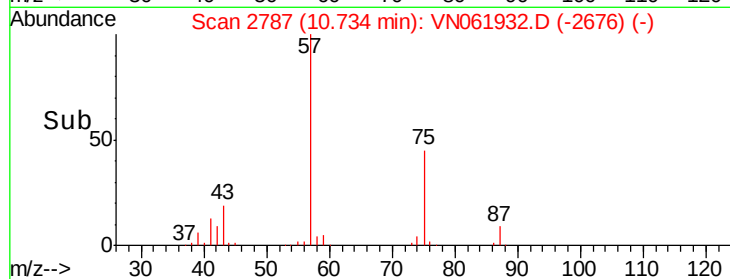
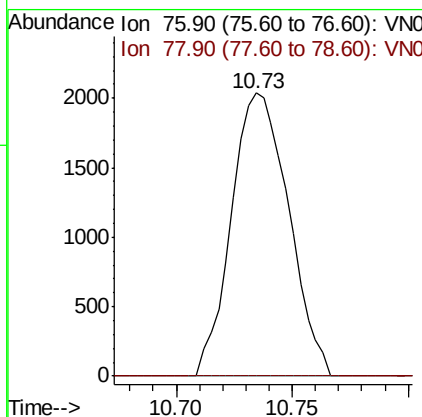
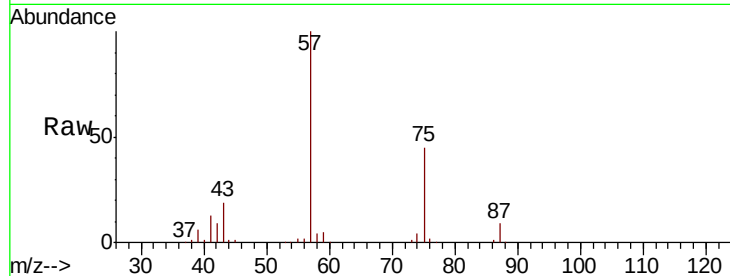




#57
 1,3-Dichloropropane
 Concen: 1.094 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN061932.D
 Acq: 19 Jun 2020 5:18

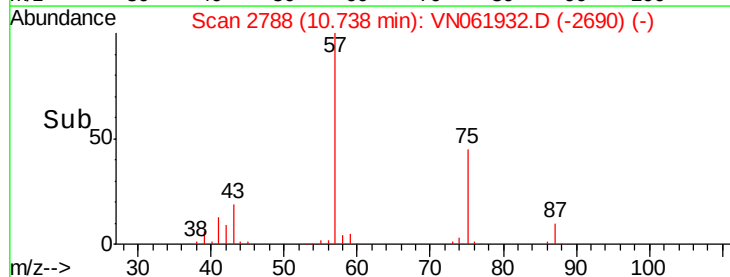
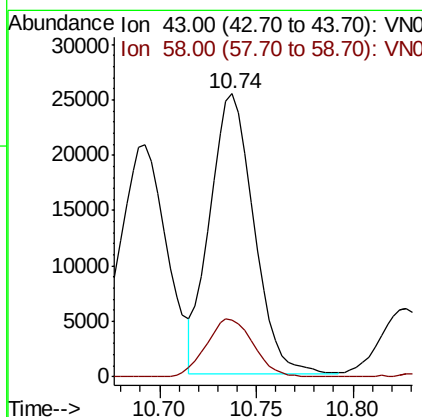
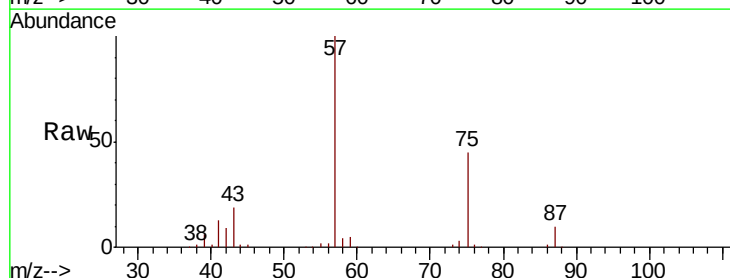
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

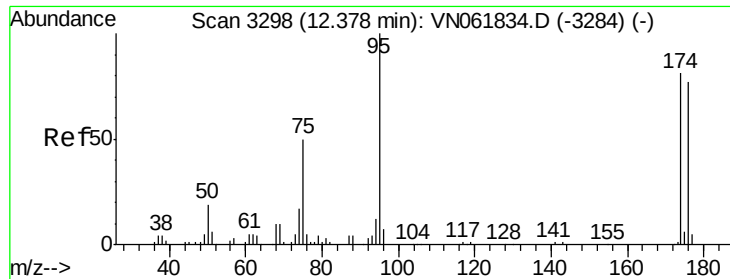
Tot Ion: 76 Resp: 3486
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 37.588 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061932.D
 Acq: 19 Jun 2020 5:18

Tgt Ion: 43 Resp: 39893
 Ion Ratio Lower Upper
 43 100
 58 22.2 30.1 90.5#





#62

4-Bromofluorobenzene

Concen: 47.284 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampled :

BFB

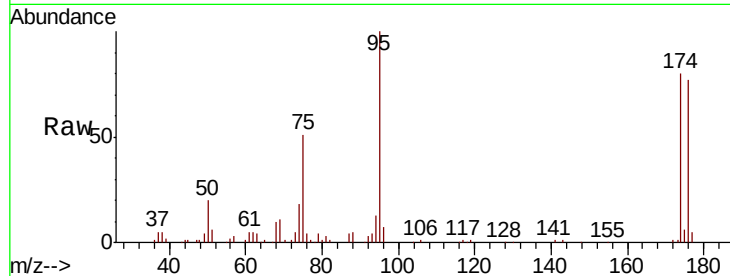
Tot Ion: 95 Resp: 112386

Ion Ratio Lower Upper

95 100

174 79.6 0.0 158.6

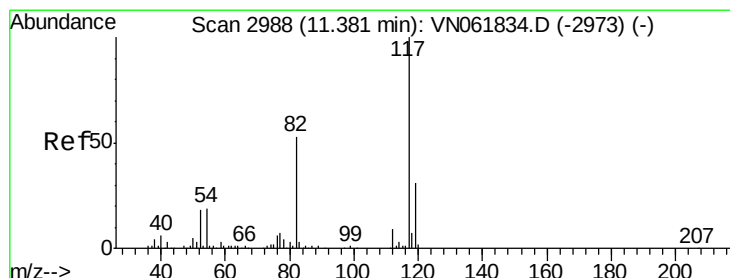
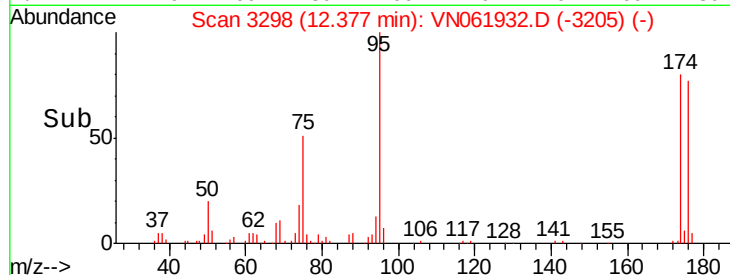
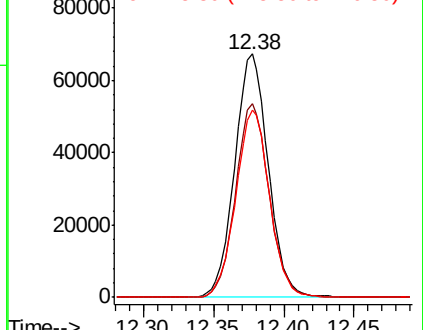
176 77.2 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061932.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061932.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061932.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

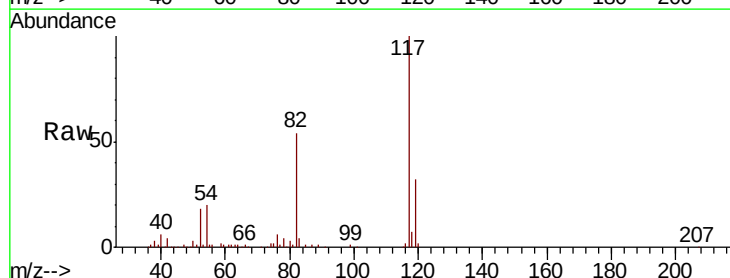
Tgt Ion: 117 Resp: 270480

Ion Ratio Lower Upper

117 100

82 54.2 42.6 64.0

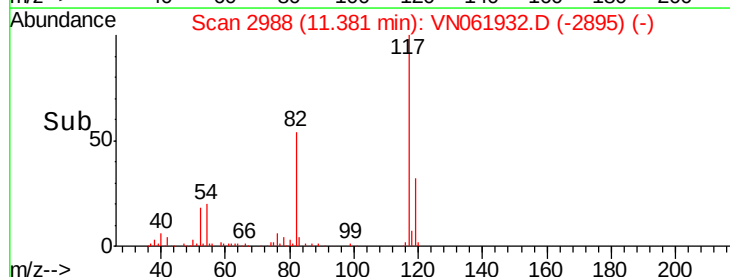
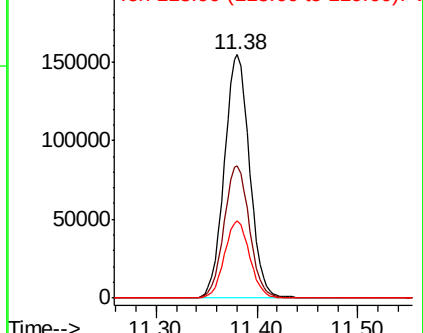
119 31.5 24.7 37.1

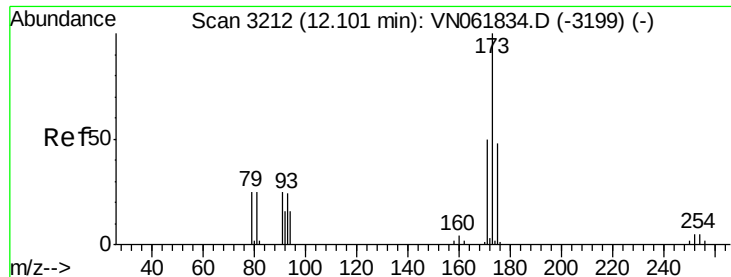


Abundance Ion 116.90 (116.60 to 117.60): VN061932.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061932.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061932.D (-2895) (-)





#71

Bromoform

Concen: 0.614 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampled :

BFB

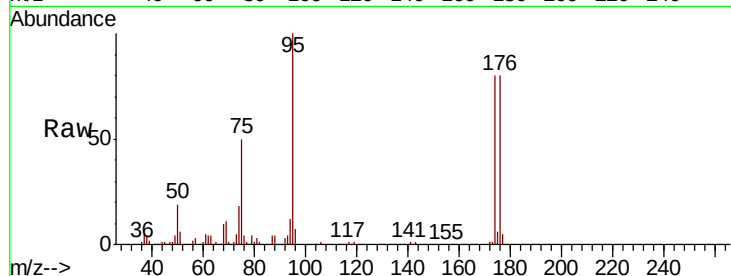
Tot Ion:173 Resp: 891

Ion Ratio Lower Upper

173 100

175 641.5 23.9 71.7#

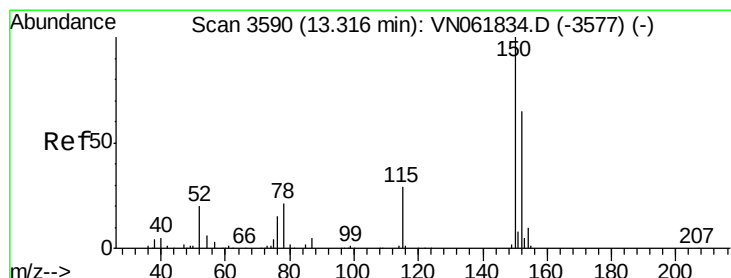
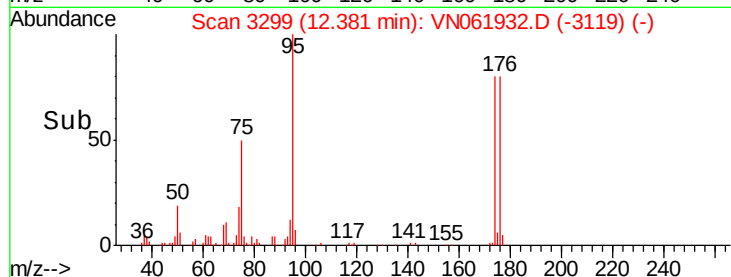
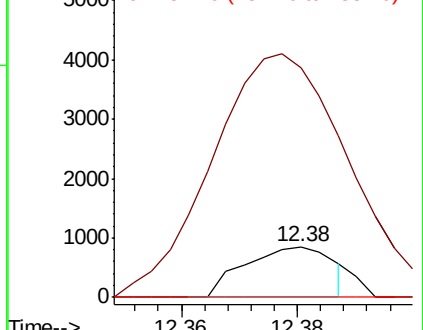
254 0.0 0.0 0.0



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: VN061932.D

Acq: 19 Jun 2020 5:18

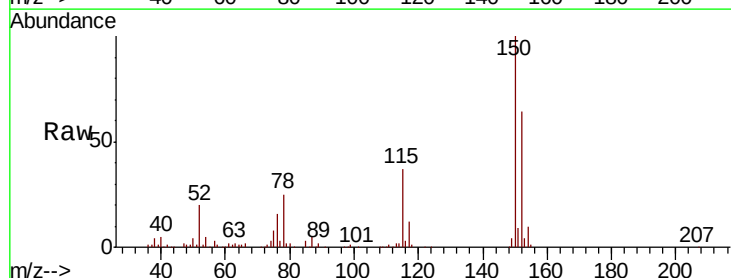
Tgt Ion:152 Resp: 101949

Ion Ratio Lower Upper

152 100

115 58.7 29.1 87.3

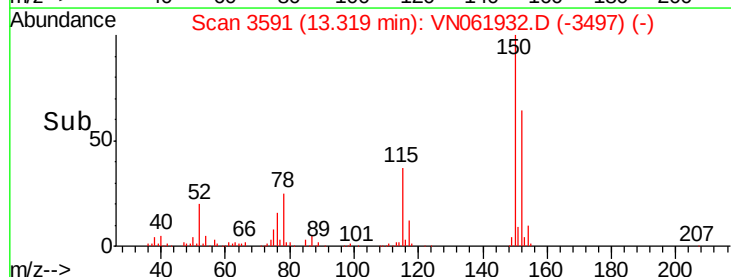
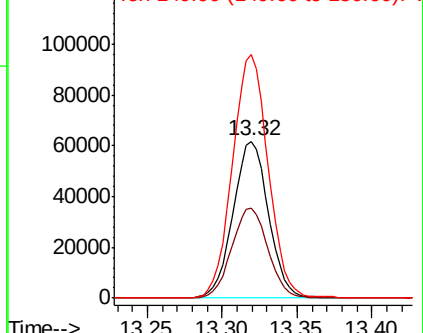
150 156.8 0.0 347.6

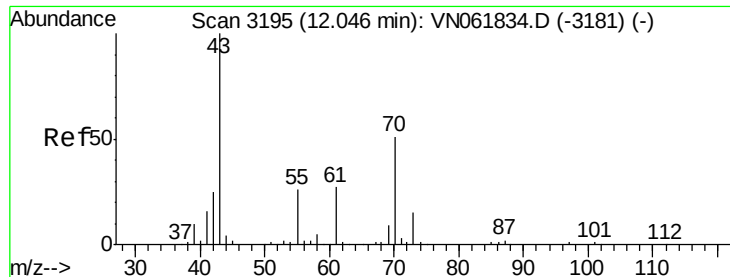


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.446 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampled :

BFB

Tot Ion: 43 Resp: 1068

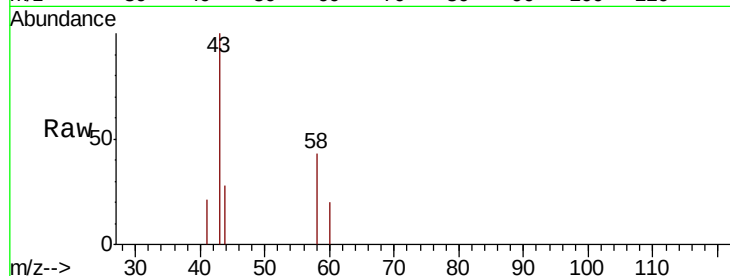
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

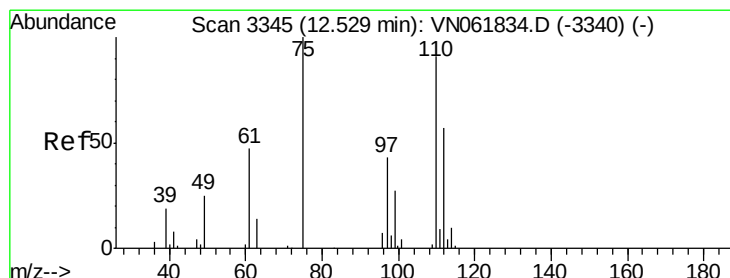
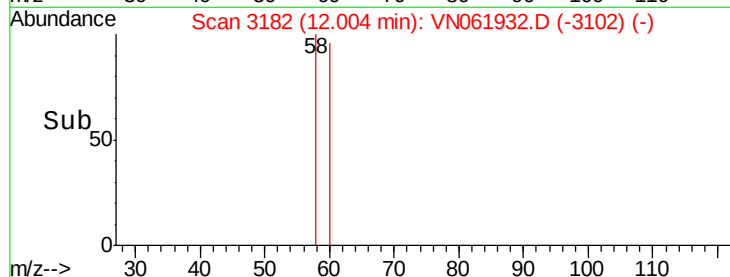
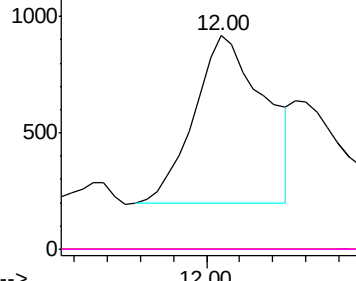


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.384 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061932.D

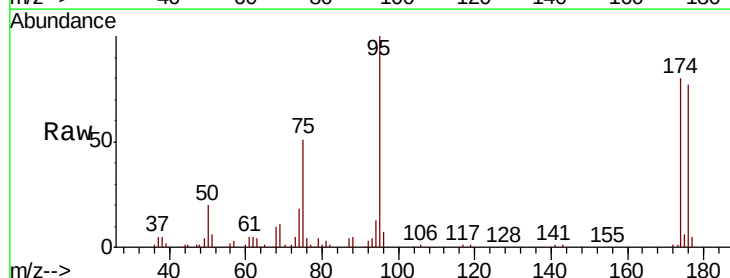
Acq: 19 Jun 2020 5:18

Tgt Ion: 75 Resp: 56810

Ion Ratio Lower Upper

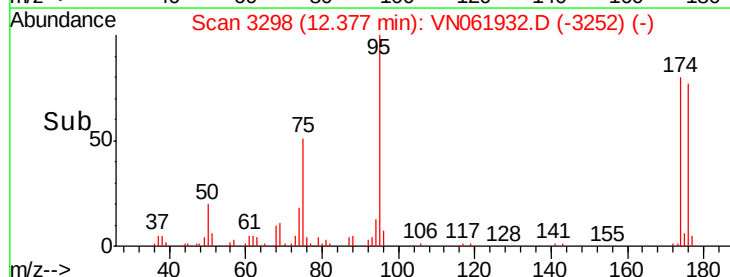
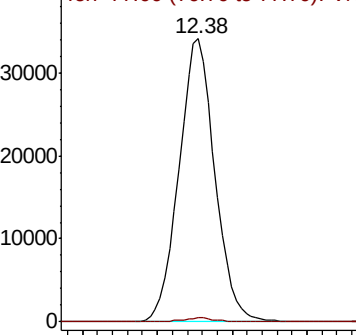
75 100

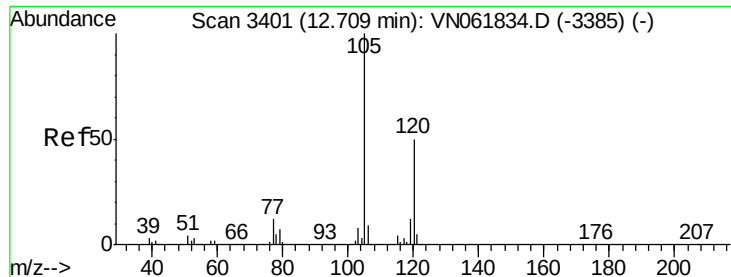
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.622 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

Instrument :

MSVOA_N

ClientSampleId :

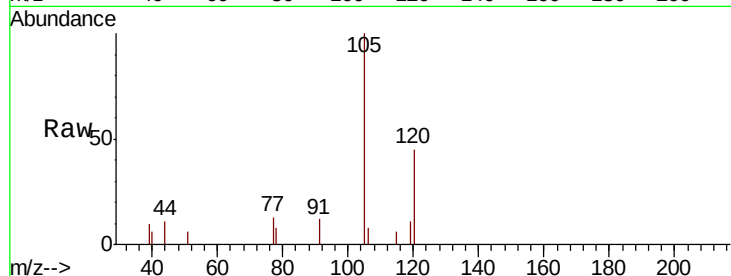
BFB

Tot Ion:105 Resp: 3729

Ion Ratio Lower Upper

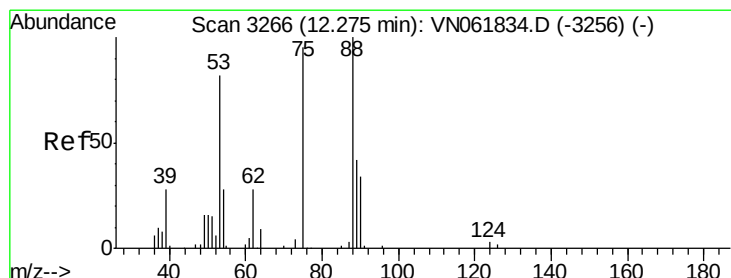
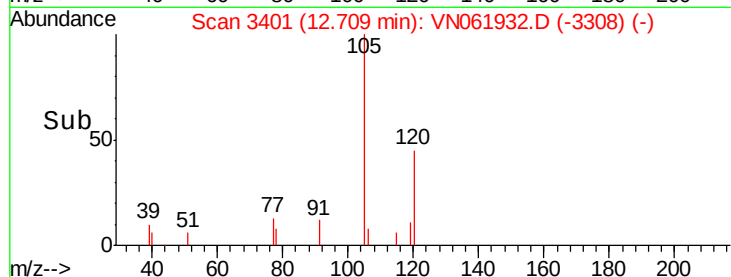
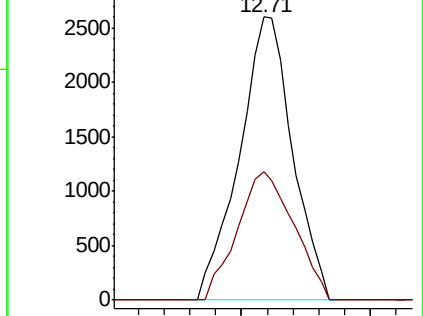
105 100

120 48.3 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 77.414 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061932.D

Acq: 19 Jun 2020 5:18

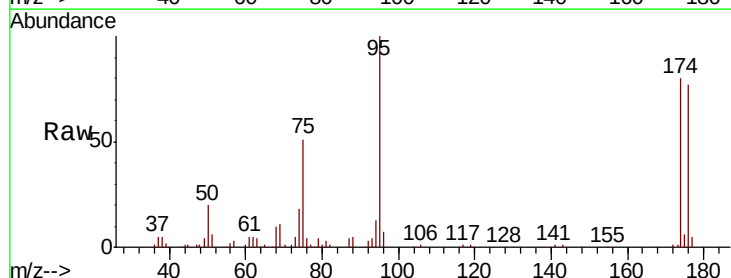
Tgt Ion: 75 Resp: 56810

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

