

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\
 Data File : VN061952.D
 Acq On : 19 Jun 2020 15:14
 Operator : JC/MD
 Sample : L2984-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0567

Quant Time: Jun 20 07:34:23 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	149340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	270039	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	260451	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	105537	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	99035	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
35) Dibromofluoromethane	7.55	113	86594	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
50) Toluene-d8	10.06	98	335566	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	12.38	95	113230	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	

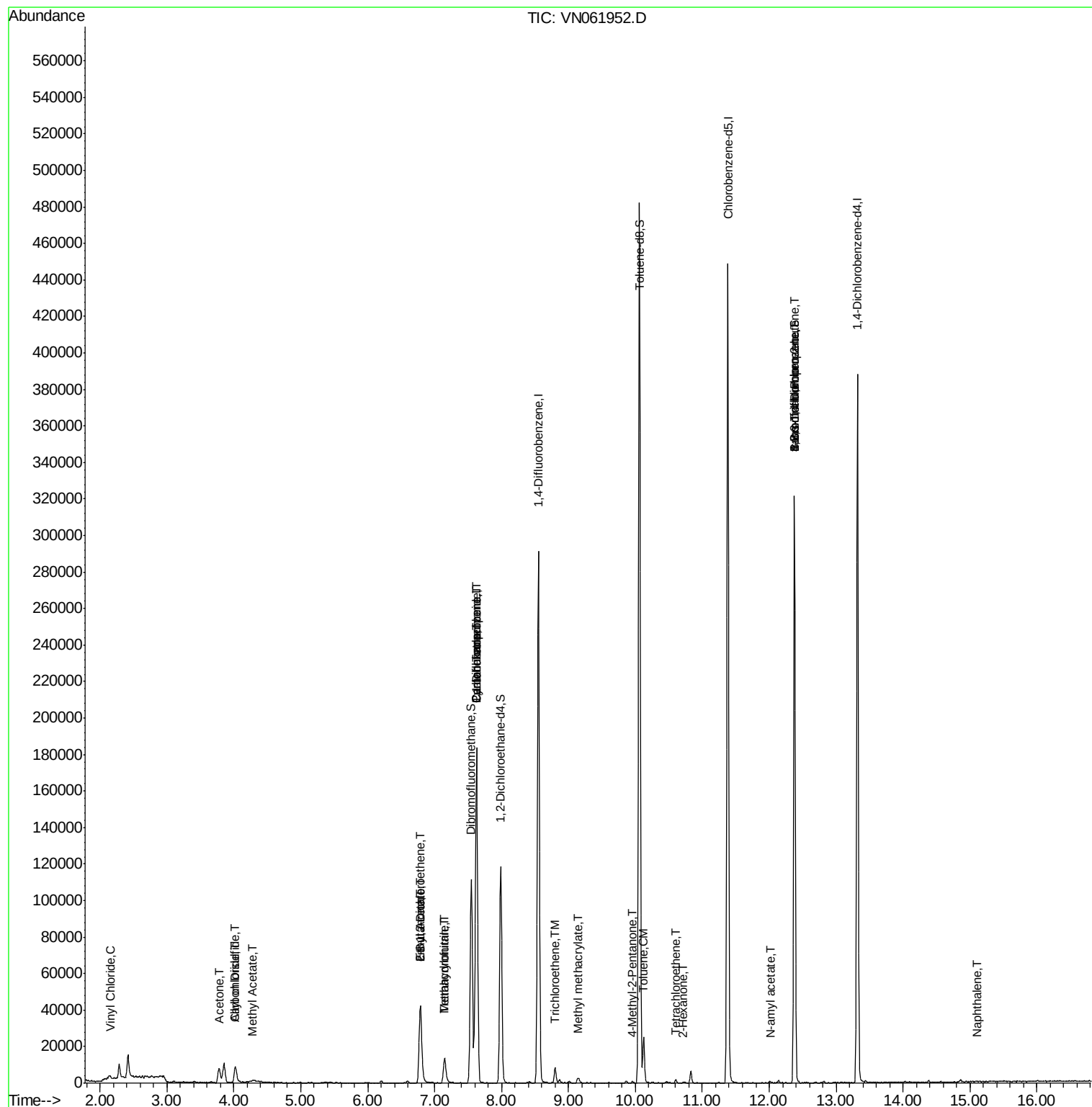
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	754	0.305	ug/l #	79
14) Allyl chloride	4.02	41	1137	0.565	ug/l #	55
16) Acetone	3.78	43	14378	24.303	ug/l	93
17) Carbon Disulfide	4.01	76	1221	0.275	ug/l #	75
18) Methyl Acetate	4.27	43	748	0.439	ug/l #	46
25) 2-Butanone	6.79	43	69592	80.625	ug/l	98
27) cis-1,2-Dichloroethene	6.78	96	1913	0.951	ug/l	71
29) Tetrahydrofuran	7.15	42	691	1.216	ug/l #	50
31) Cyclohexane	7.62	56	3093	1.172	ug/l #	4
36) 1,1-Dichloropropene	7.63	75	11809	4.794	ug/l #	49
37) Ethyl Acetate	6.79	43	69592	36.182	ug/l #	69
38) Carbon Tetrachloride	7.62	117	15034	6.164	ug/l #	16
41) Methacrylonitrile	7.15	41	2783	3.384	ug/l #	100
44) Trichloroethene	8.80	130	3408	1.736	ug/l	94
48) Methyl methacrylate	9.13	41	619	0.420	ug/l #	36
51) 4-Methyl-2-Pentanone	9.96	43	913	0.477	ug/l #	60
52) Toluene	10.12	92	11169	2.384	ug/l	96
59) 2-Hexanone	10.71	43	259	13.567	ug/l #	20
64) Tetrachloroethene	10.60	164	346	0.208	ug/l #	77
71) Bromoform	12.37	173	588	0.421	ug/l #	1
74) N-amyl acetate	12.04	43	155	3.118	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	56282	27.164	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	56282	74.087	ug/l #	14
95) Naphthalene	15.10	128	149	3.510	ug/l #	69

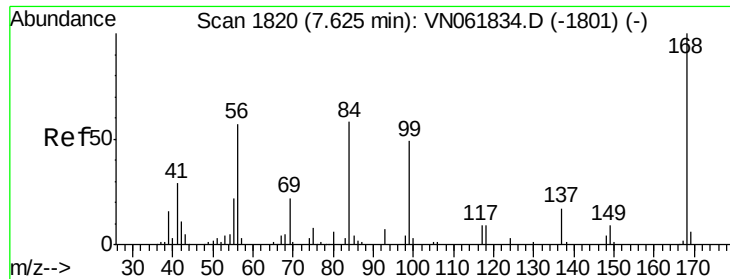
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061952.D

Acq: 19 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampleId :

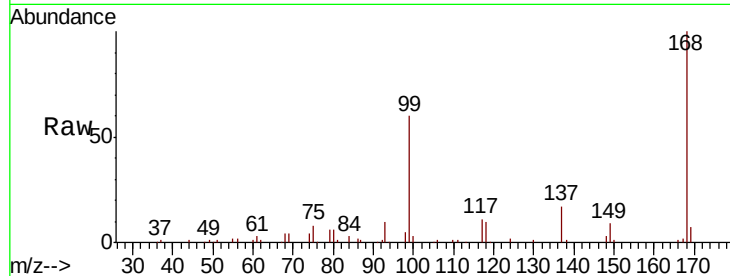
S49-0567

Tot Ion:168 Resp: 149340

Ion Ratio Lower Upper

168 100

99 59.7 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): VN061834.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-1801) (-)

7.63

60000

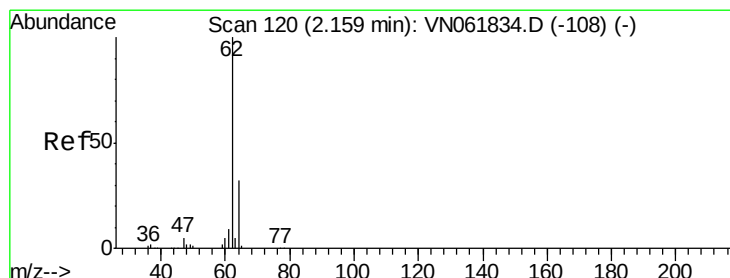
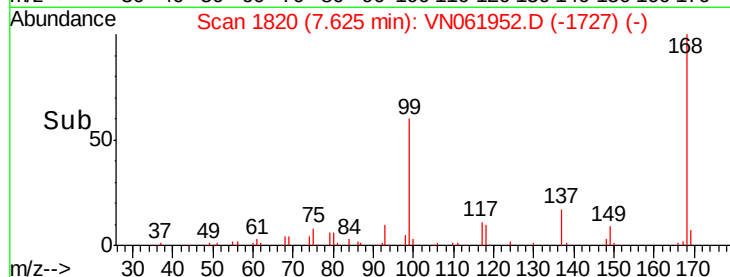
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#4

Vinyl Chloride

Concen: 0.305 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN061952.D

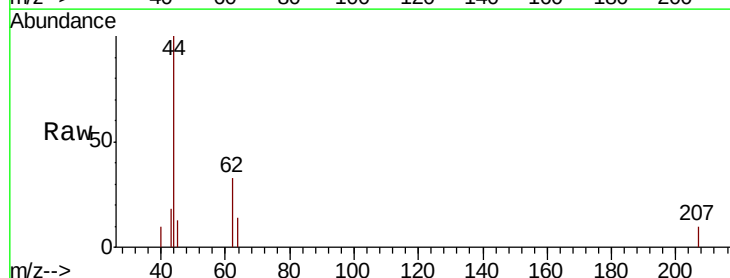
Acq: 19 Jun 2020 15:14

Tgt Ion: 62 Resp: 754

Ion Ratio Lower Upper

62 100

64 43.5 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VN061834.D (-108) (-)

Ion 63.90 (63.60 to 64.60): VN061834.D (-108) (-)

2.16

600

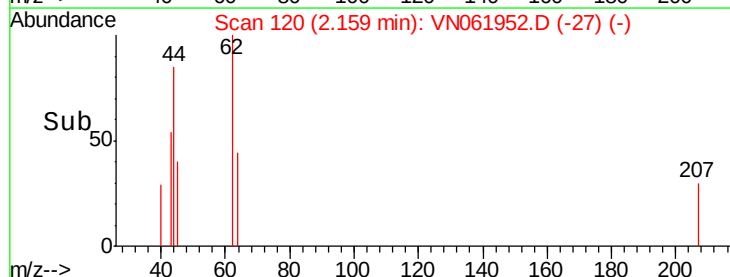
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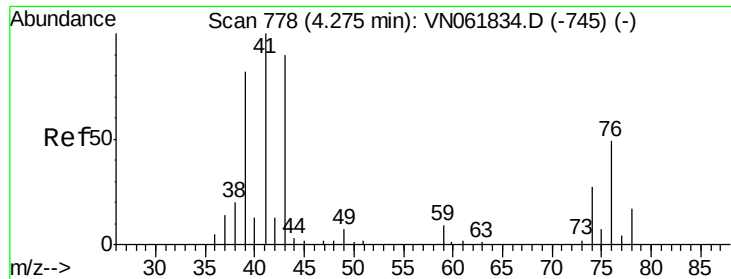
200

0

2.12 2.14 2.16 2.18

Time-->

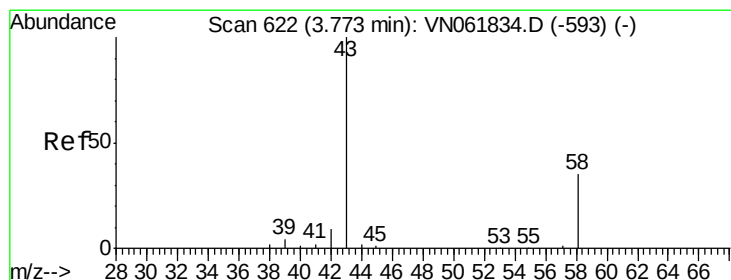
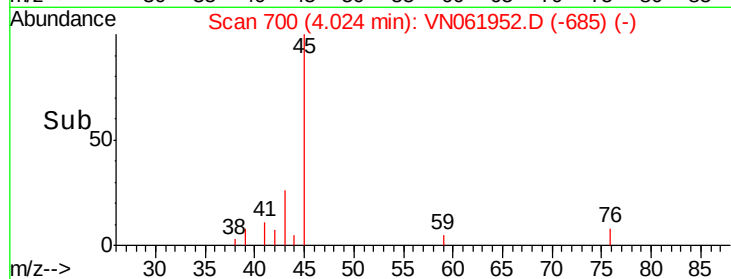
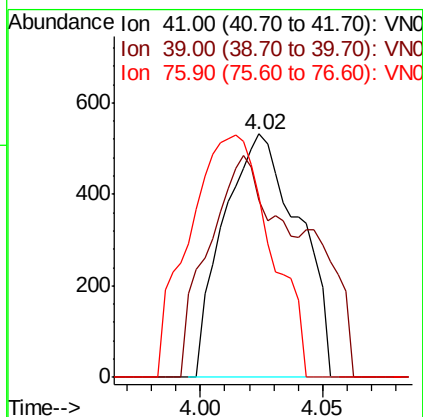
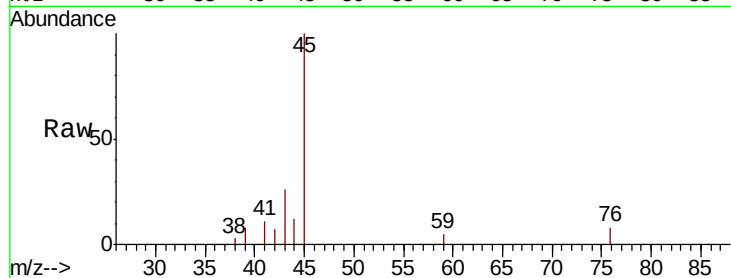




#14
Allvl chloride
Concen: 0.565 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.25 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

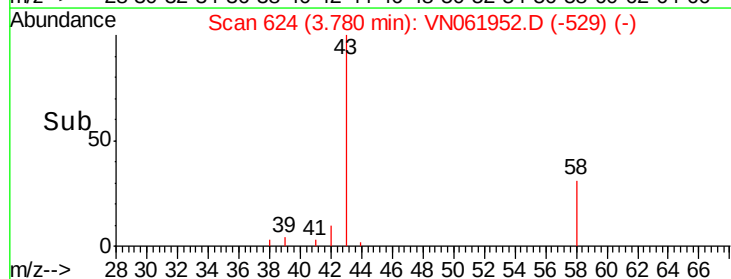
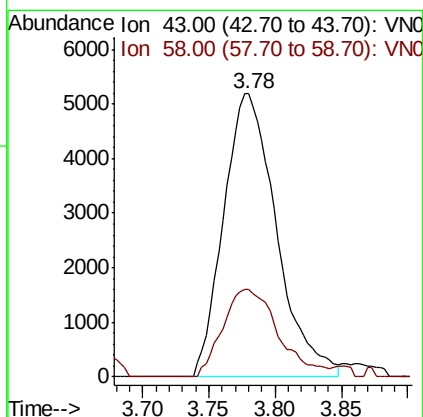
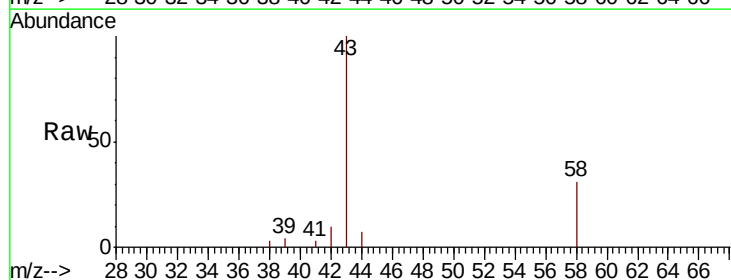
Instrument :
MSVOA_N
ClientSampleId :
S49-0567

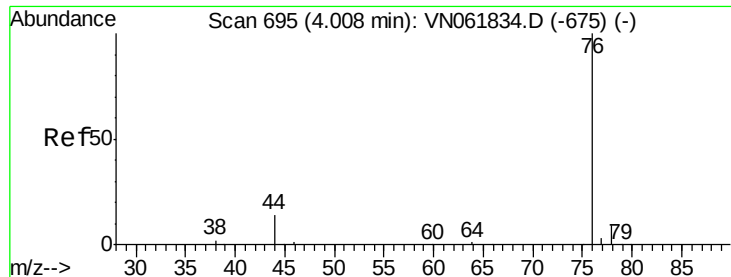
Tot Ion: 41 Resp: 1137
Ion Ratio Lower Upper
41 100
39 88.1 60.2 90.2
76 107.4 36.3 54.5#



#16
Acetone
Concen: 24.303 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Tgt Ion: 43 Resp: 14378
Ion Ratio Lower Upper
43 100
58 31.0 27.8 41.8





#17

Carbon Disulfide

Concen: 0.275 ug/l

RT: 4.01 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN061952.D

Acq: 19 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampleId :

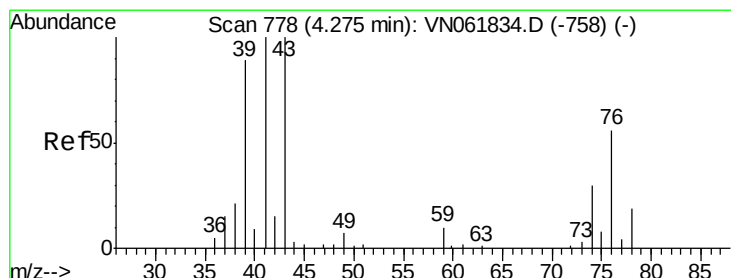
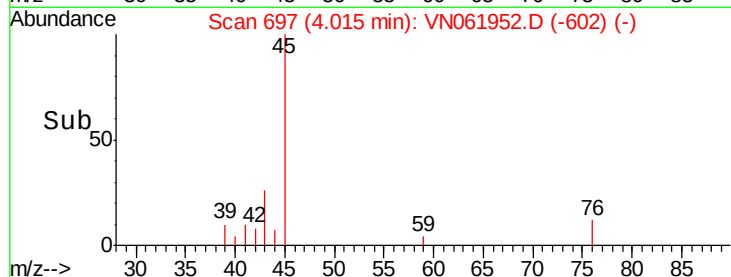
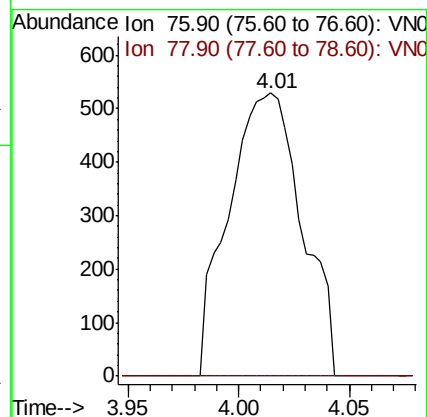
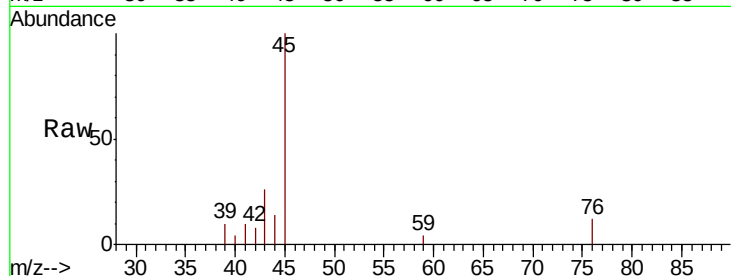
S49-0567

Tot Ion: 76 Resp: 1221

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#18

Methyl Acetate

Concen: 0.439 ug/l

RT: 4.27 min Scan# 778

Delta R.T. 0.00 min

Lab File: VN061952.D

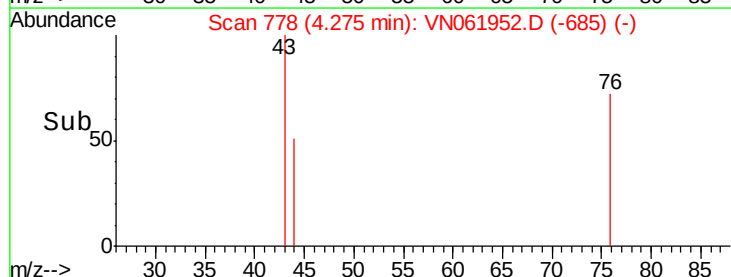
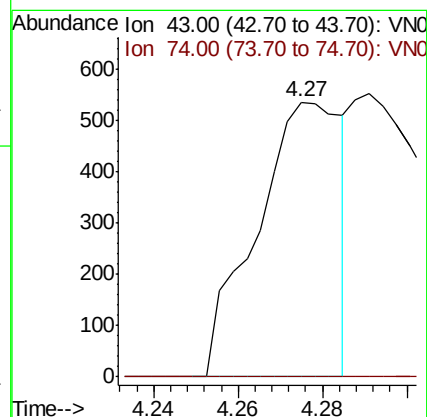
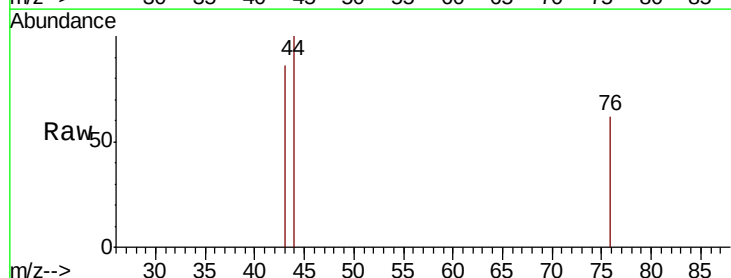
Acq: 19 Jun 2020 15:14

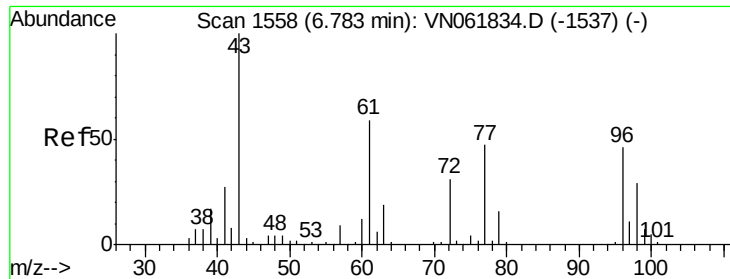
Tgt Ion: 43 Resp: 748

Ion Ratio Lower Upper

43 100

74 0.0 23.0 34.4#

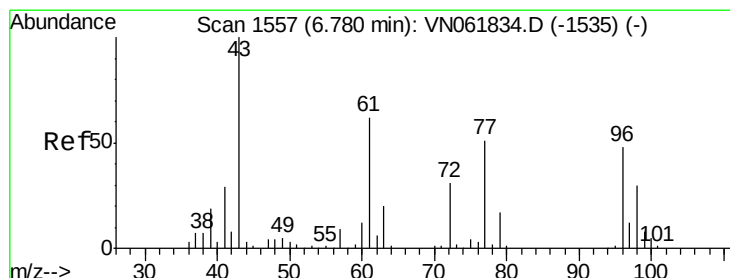
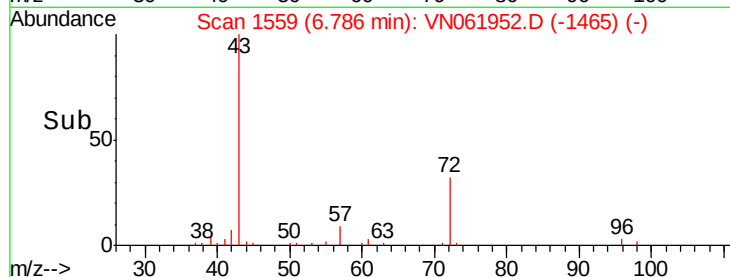
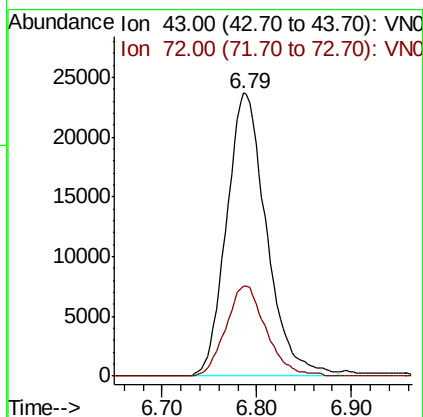
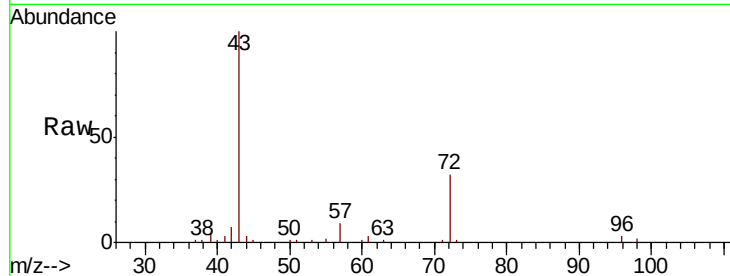




#25
2-Butanone
Concen: 80.625 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

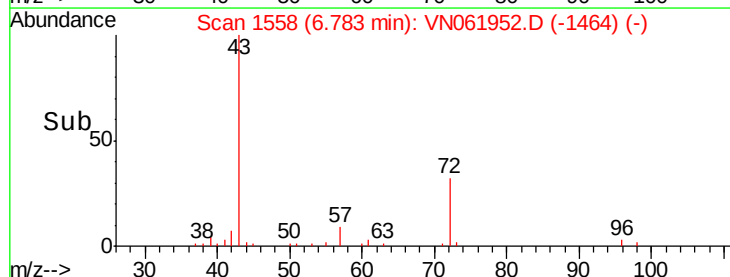
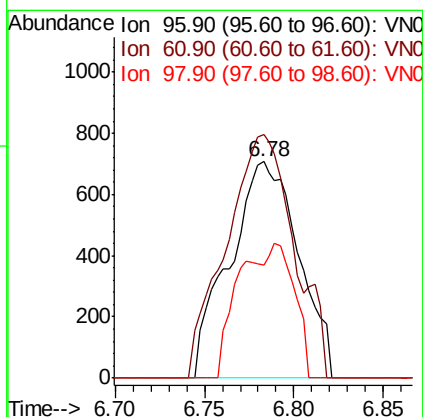
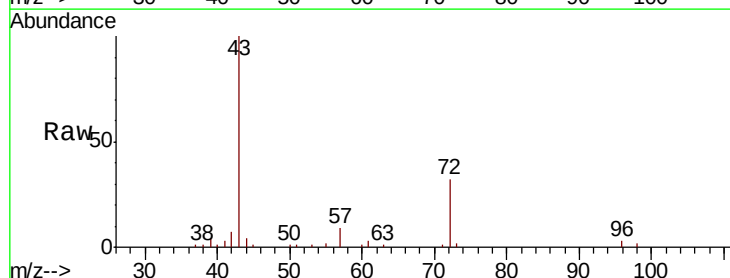
Instrument :
MSVOA_N
ClientSampled :
S49-0567

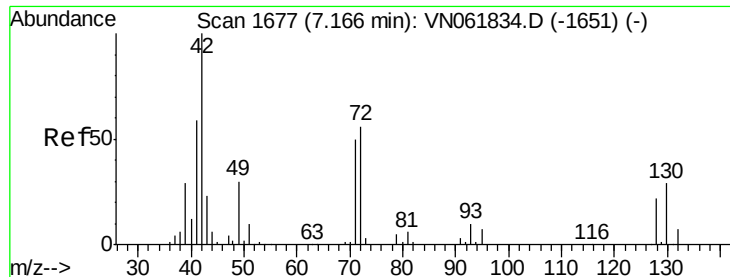
Tot Ion: 43 Resp: 69592
Ion Ratio Lower Upper
43 100
72 31.6 24.6 37.0



#27
cis-1,2-Dichloroethene
Concen: 0.951 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Tgt Ion: 96 Resp: 1913
Ion Ratio Lower Upper
96 100
61 110.6 0.0 265.6
98 25.7 0.0 128.2

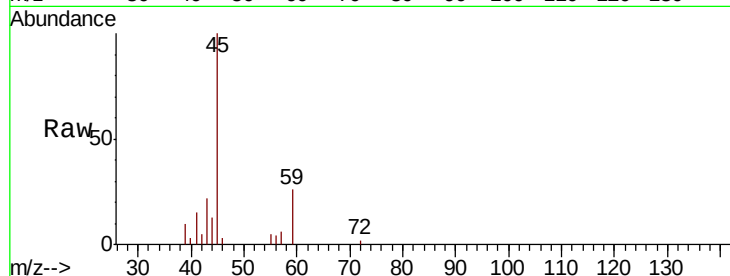




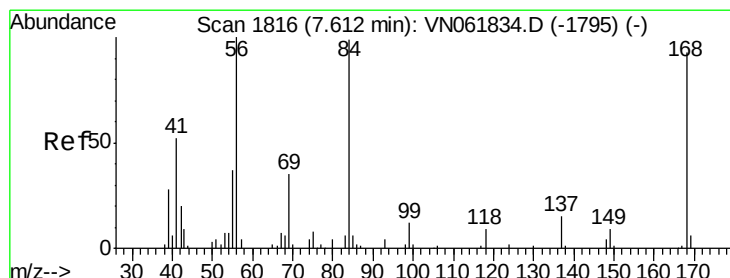
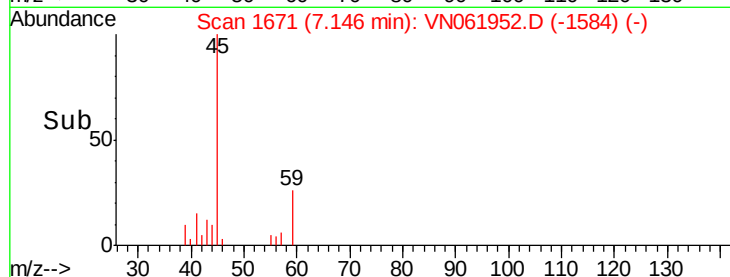
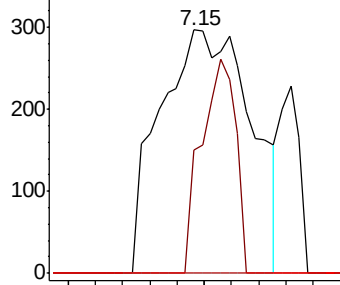
#29
Tetrahydrofuran
Concen: 1.216 ug/l
RT: 7.15 min Scan# 1671
Delta R.T. -0.02 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Instrument :
MSVOA_N
ClientSampleId :
S49-0567

Tot Ion: 42 Resp: 691
Ion Ratio Lower Upper
42 100
72 33.1 44.0 66.0#
71 0.0 40.0 60.0#

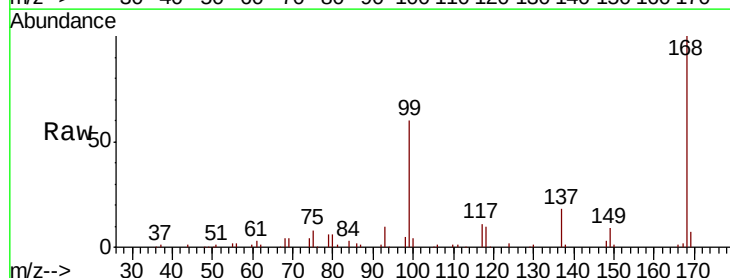


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

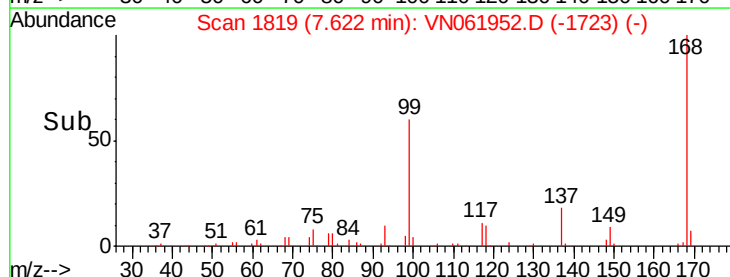
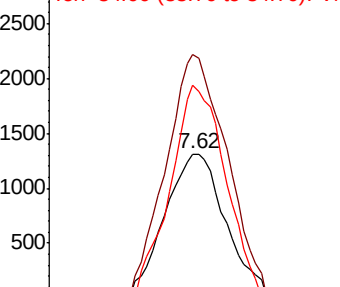


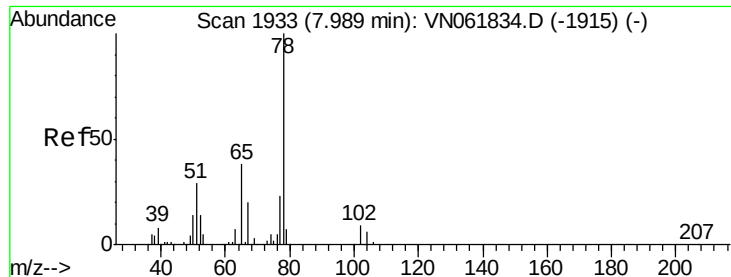
#31
Cyclohexane
Concen: 1.172 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Tgt Ion: 56 Resp: 3093
Ion Ratio Lower Upper
56 100
69 168.7 27.7 41.5#
84 147.5 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

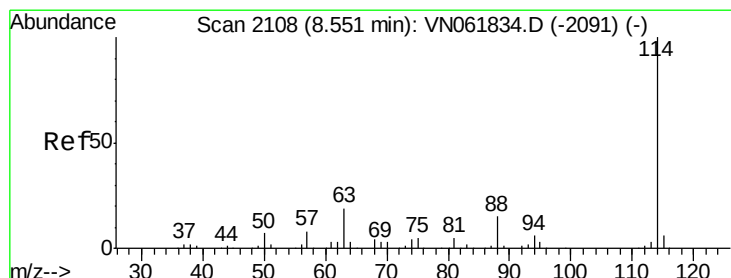
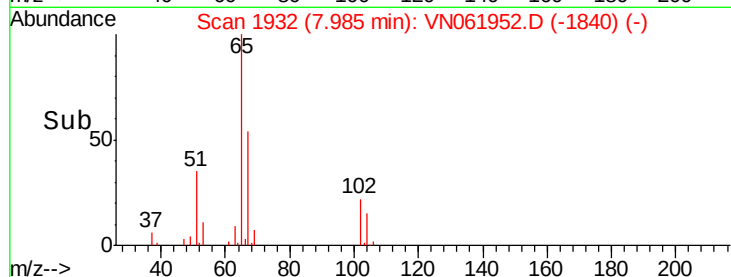
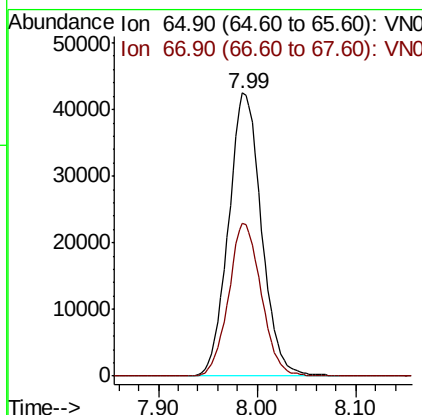
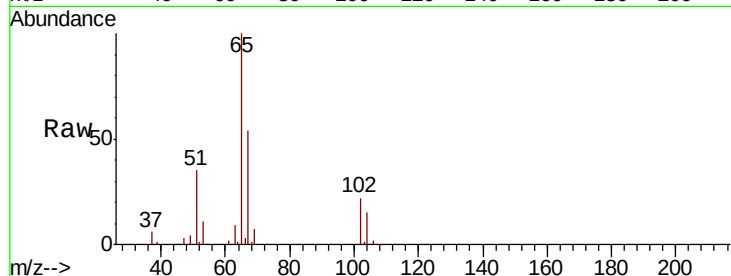




#33
 1,2-Dichloroethane-d4
 Concen: 49.447 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061952.D
 Acq: 19 Jun 2020 15:14

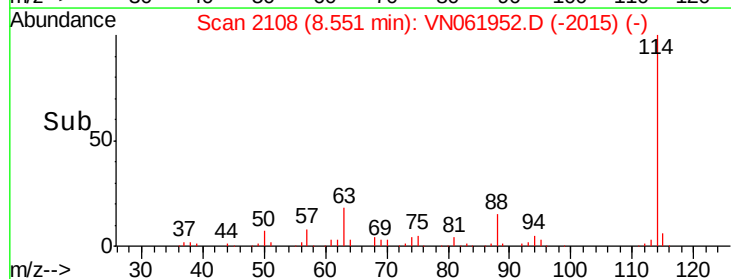
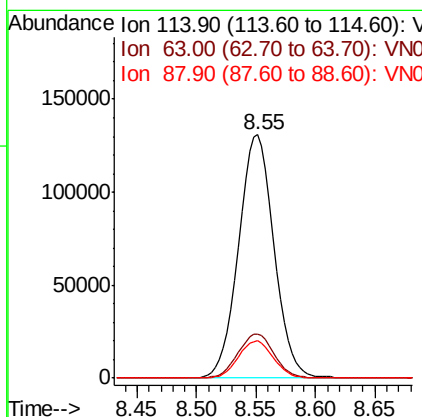
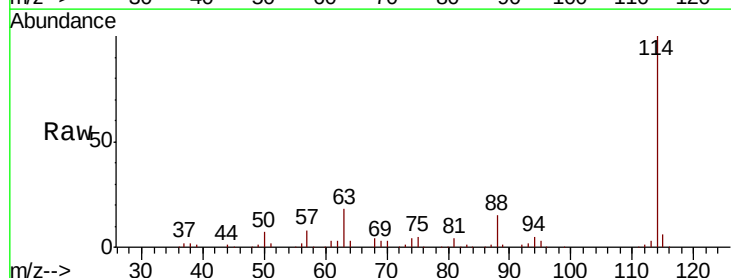
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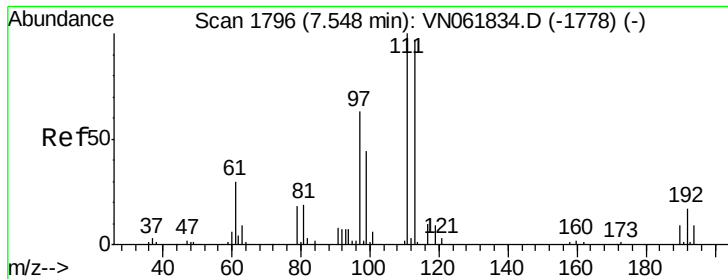
Tot Ion: 65 Resp: 99035
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061952.D
 Acq: 19 Jun 2020 15:14

Tgt Ion: 114 Resp: 270039
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 37.6
 88 15.2 0.0 31.0

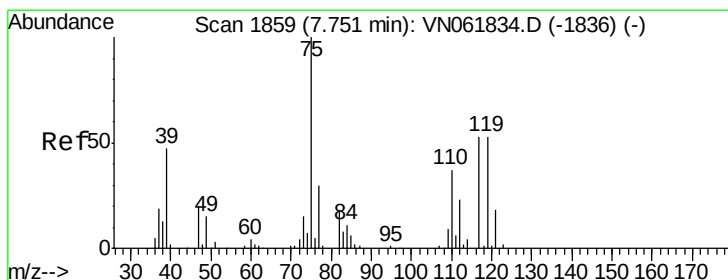
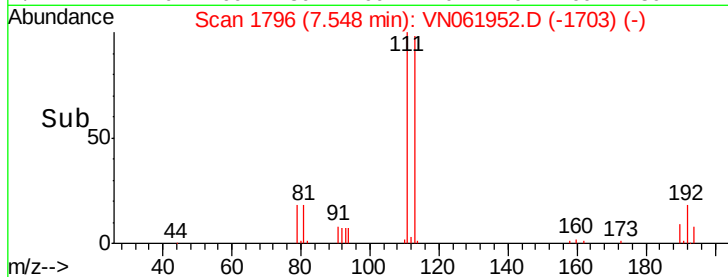
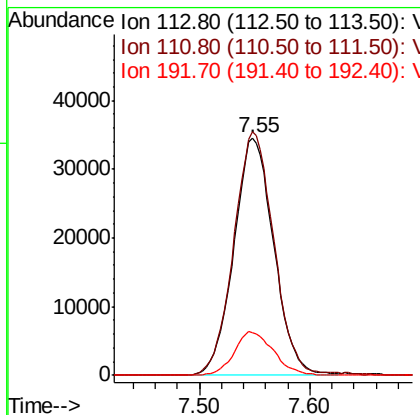
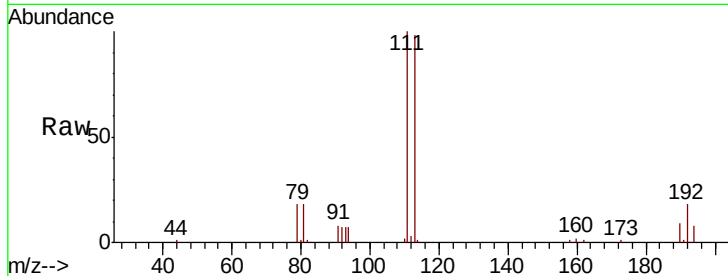




#35
 Dibromofluoromethane
 Concen: 50.125 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061952.D
 Acq: 19 Jun 2020 15:14

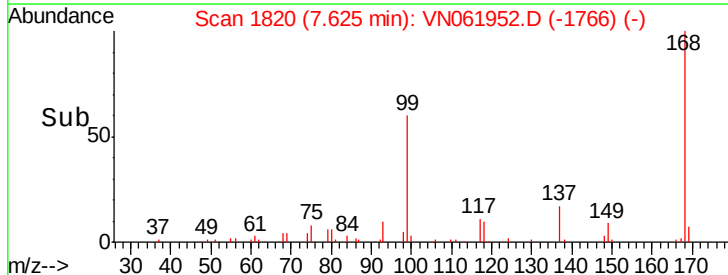
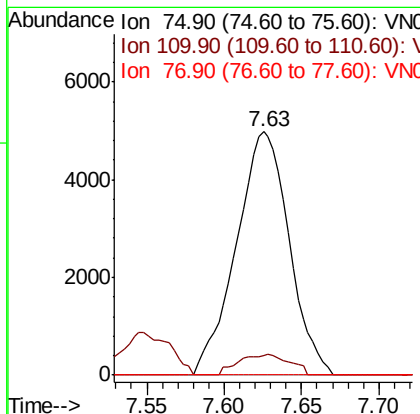
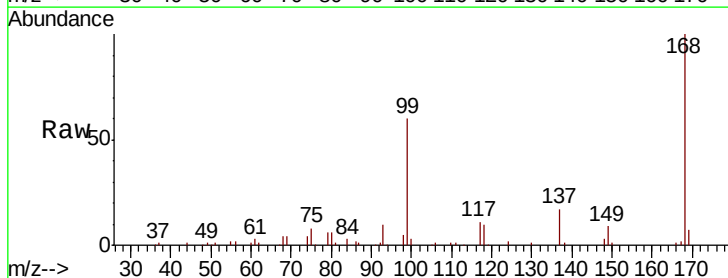
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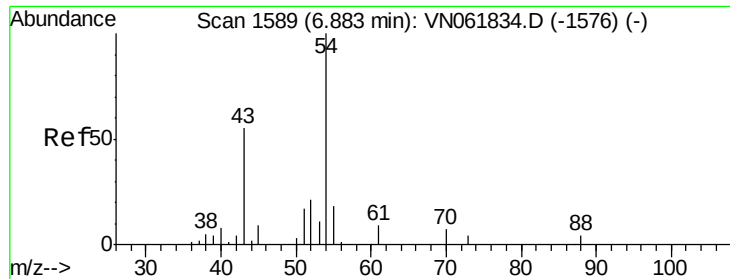
Tot Ion:113 Resp: 86594
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.7 125.5
 192 18.0 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.794 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061952.D
 Acq: 19 Jun 2020 15:14

Tgt Ion: 75 Resp: 11809
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.2 54.6#
 77 0.0 24.2 36.4#

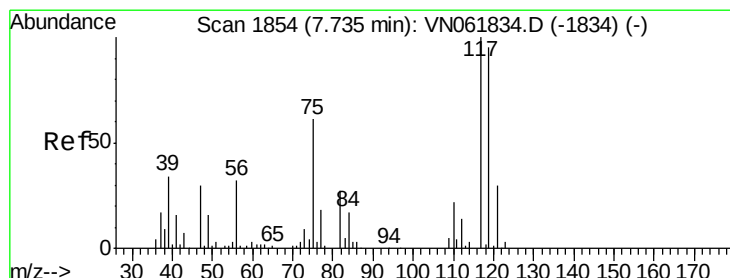
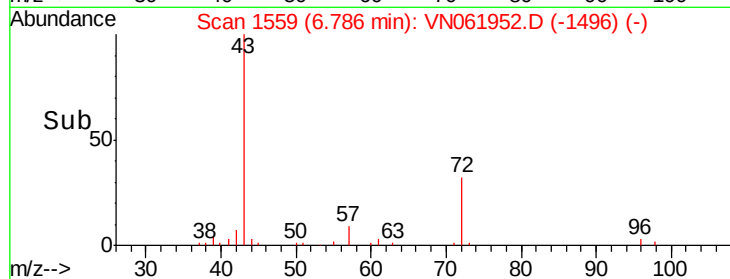
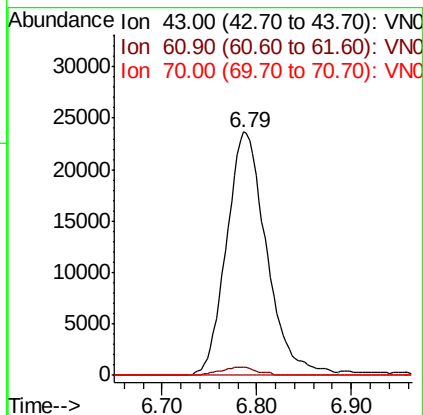
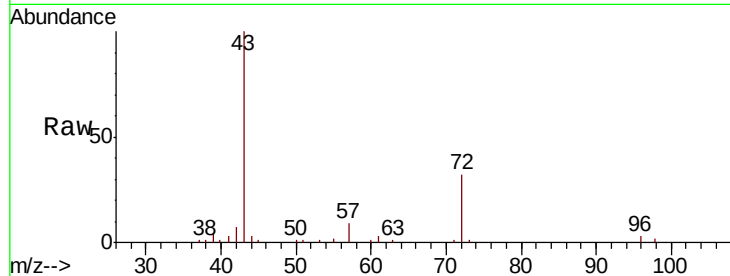




#37
Ethyl Acetate
Concen: 36.182 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. -0.10 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

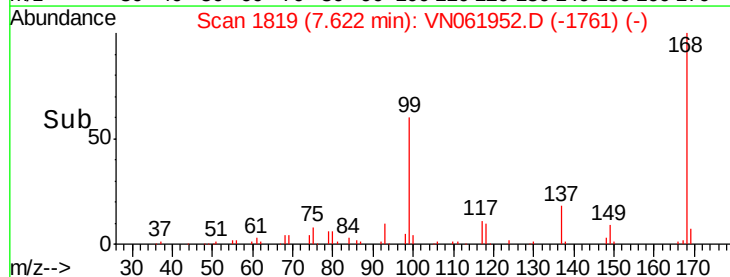
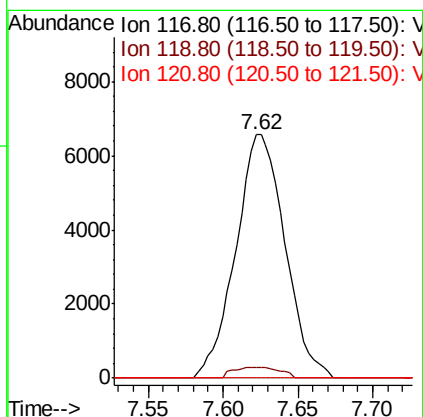
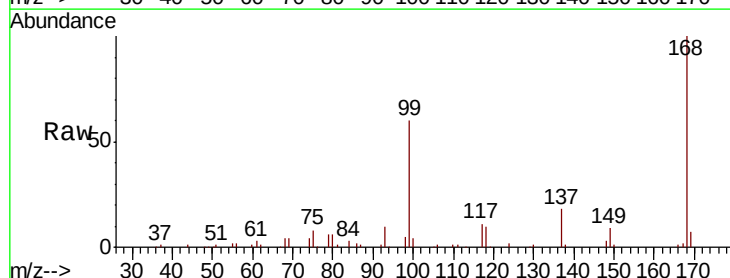
Instrument :
MSVOA_N
ClientSampleId :
S49-0567

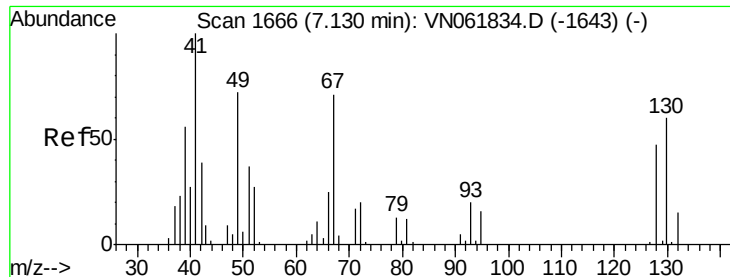
Tot Ion: 43 Resp: 69592
Ion Ratio Lower Upper
43 100
61 3.0 13.0 19.4#
70 0.0 9.4 14.2#



#38
Carbon Tetrachloride
Concen: 6.164 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Tgt Ion: 117 Resp: 15034
Ion Ratio Lower Upper
117 100
119 4.5 75.8 113.6#
121 0.0 23.8 35.6#

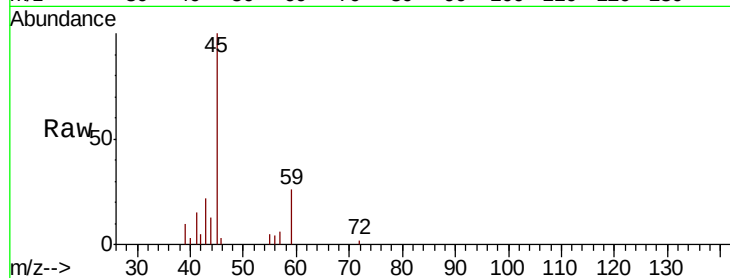




#41
Methacrylonitrile
Concen: 3.384 ug/l
RT: 7.15 min Scan# 1671
Delta R.T. 0.02 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Instrument :
MSVOA_N
ClientSampled :
S49-0567

Tot Ion:	41	Resp:	2783
Ion	Ratio	Lower	Upper
41	100		
39	57.0	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

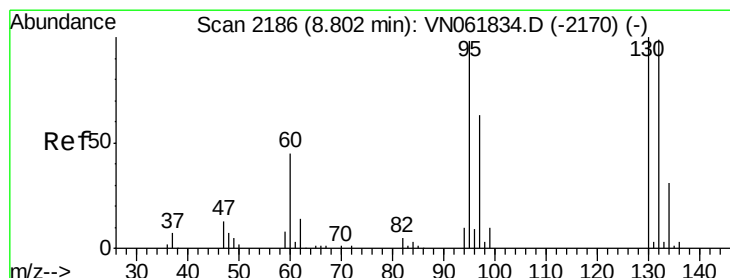
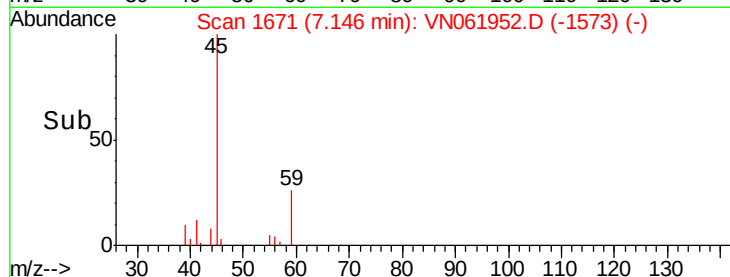
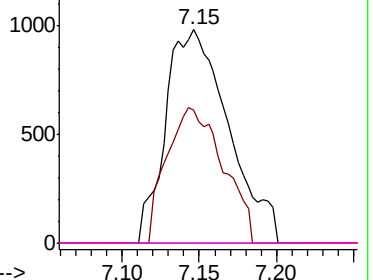


Abundance Ion 41.00 (40.70 to 41.70): VN061834.D (-1643) (-)

Ion 39.00 (38.70 to 39.70): VN061834.D (-1643) (-)

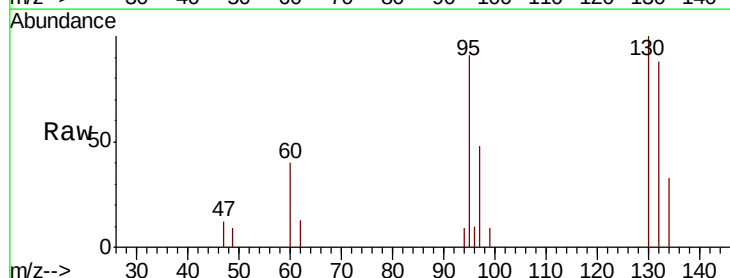
Ion 67.00 (66.70 to 67.70): VN061834.D (-1643) (-)

Ion 52.00 (51.70 to 52.70): VN061834.D (-1643) (-)



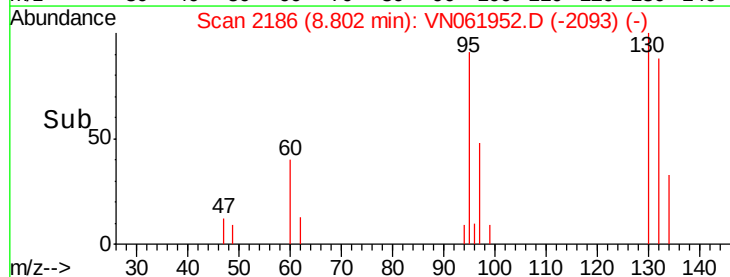
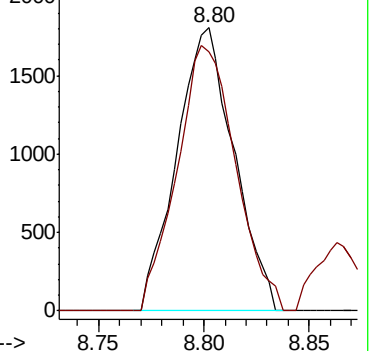
#44
Trichloroethene
Concen: 1.736 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

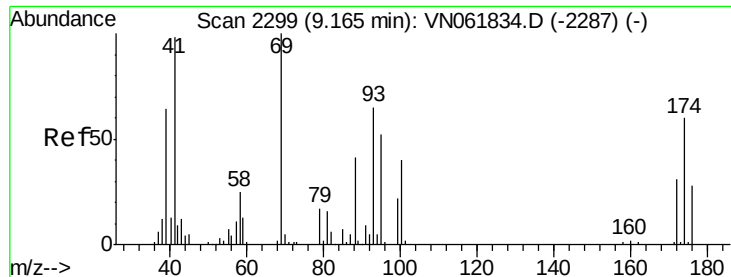
Tgt Ion:	130	Resp:	3408
Ion	Ratio	Lower	Upper
130	100		
95	91.4	0.0	195.6



Abundance Ion 129.80 (129.50 to 130.50): VN061834.D (-2170) (-)

Ion 94.90 (94.60 to 95.60): VN061834.D (-2170) (-)

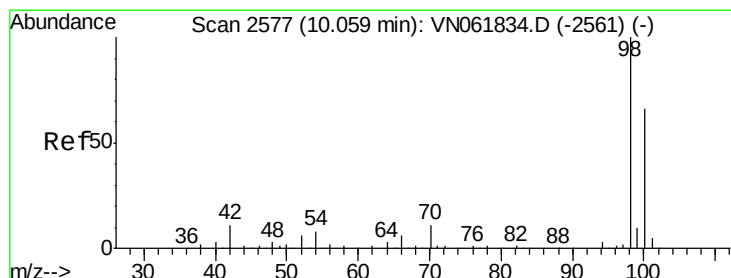
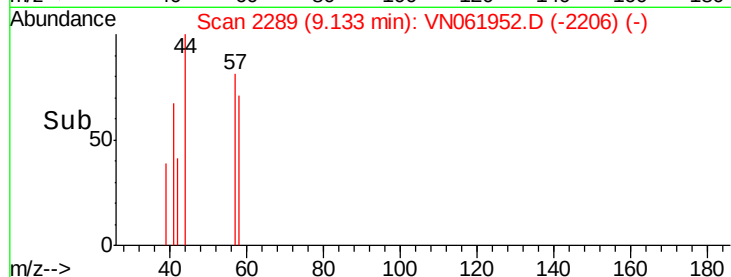
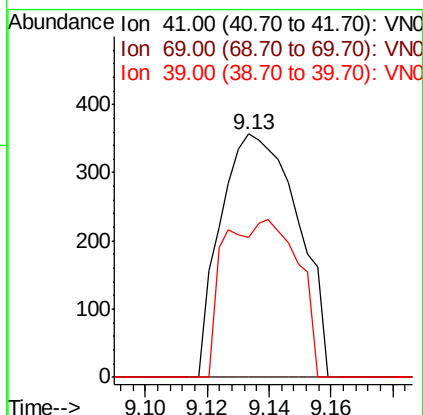
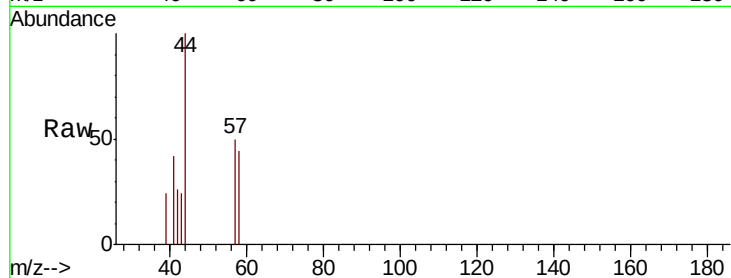




#48
Methvl methacrylate
Concen: 0.420 ug/l
RT: 9.13 min Scan# 2289
Delta R.T. -0.03 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

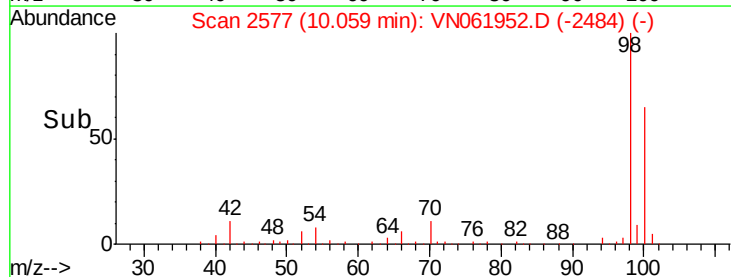
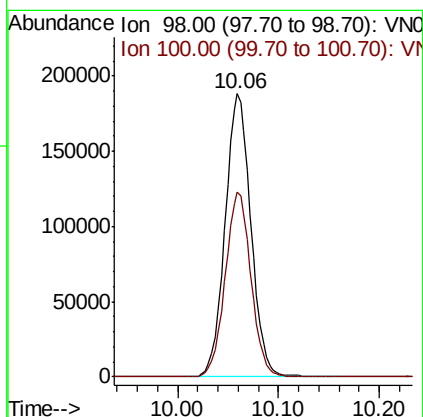
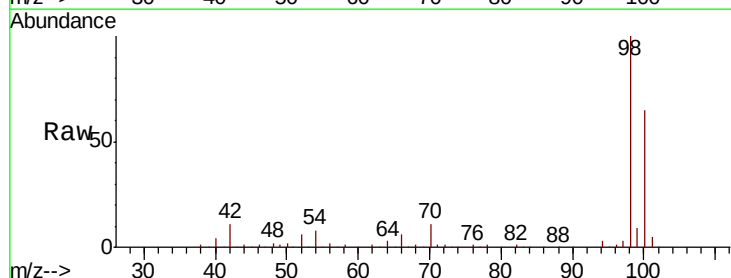
Instrument :
MSVOA_N
ClientSampleId :
S49-0567

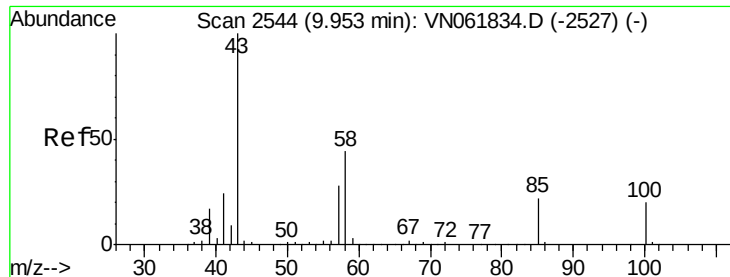
Tot Ion: 41 Resp: 619
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.4#
39 62.7 55.1 82.7



#50
Toluene-d8
Concen: 49.408 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Tgt Ion: 98 Resp: 335566
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 0.477 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061952.D

Acq: 19 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampled :

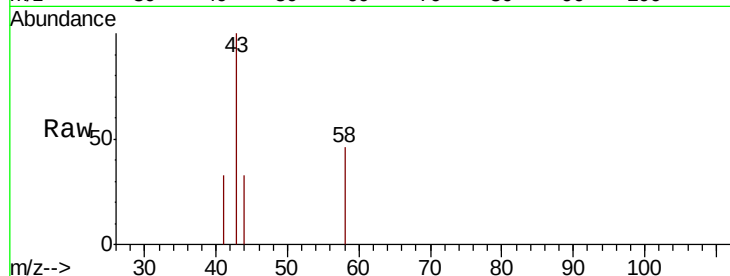
S49-0567

Tot Ion: 43 Resp: 913

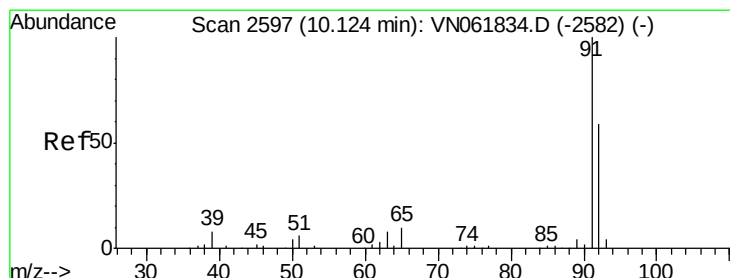
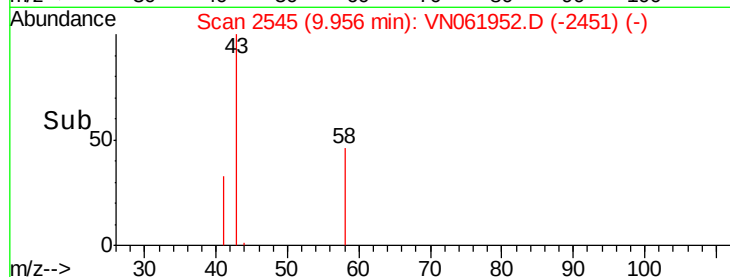
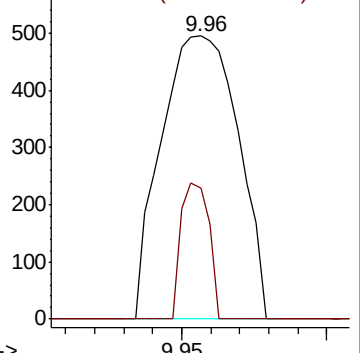
Ion Ratio Lower Upper

43 100

58 17.4 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)



#52

Toluene

Concen: 2.384 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. 0.00 min

Lab File: VN061952.D

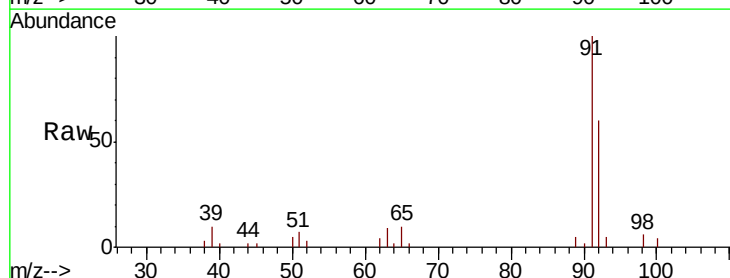
Acq: 19 Jun 2020 15:14

Tgt Ion: 92 Resp: 11169

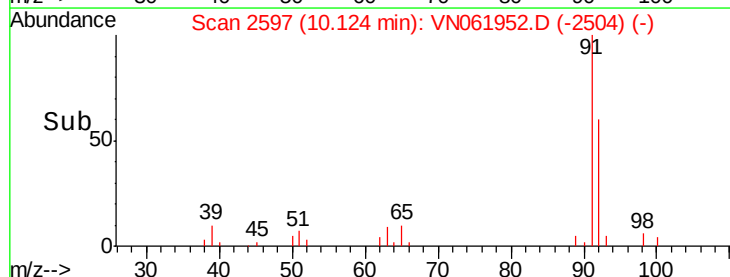
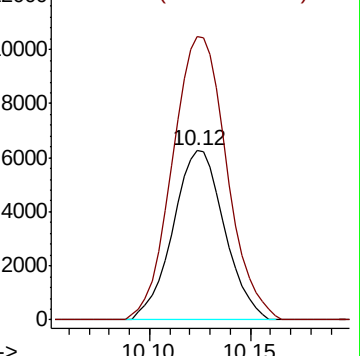
Ion Ratio Lower Upper

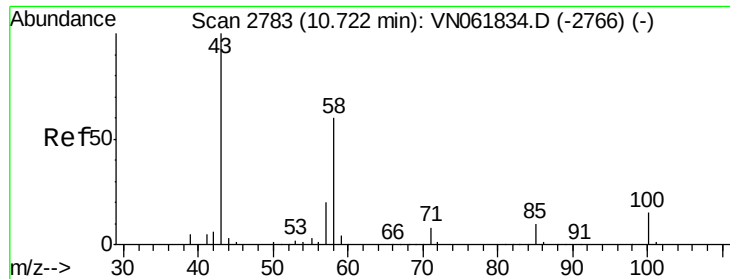
92 100

91 176.6 137.1 205.7



Abundance Ion 92.00 (91.70 to 92.70): VN061834.D (-2582) (-)

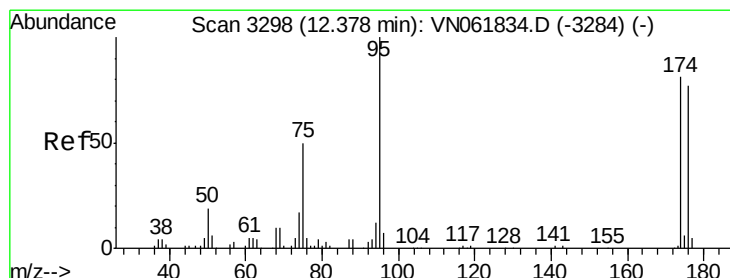
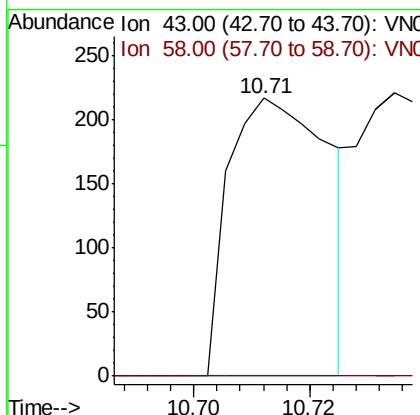
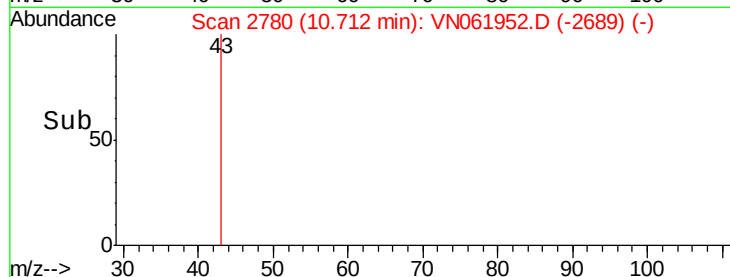
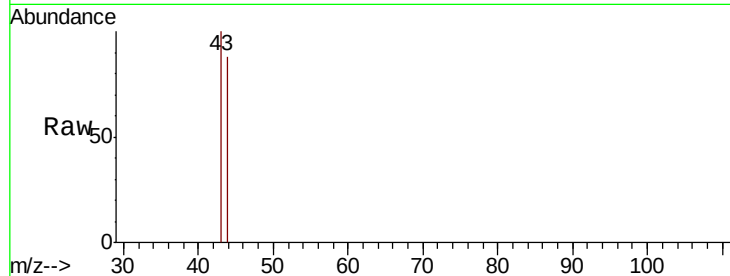




#59
2-Hexanone
Concen: 13.567 ug/l
RT: 10.71 min Scan# 2780
Delta R.T. -0.01 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

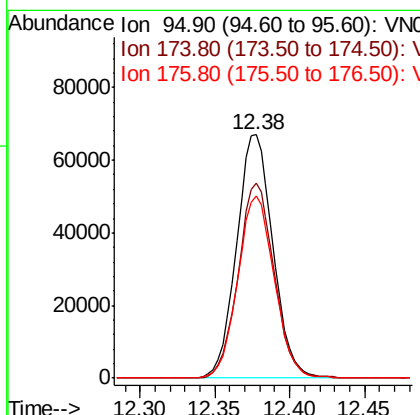
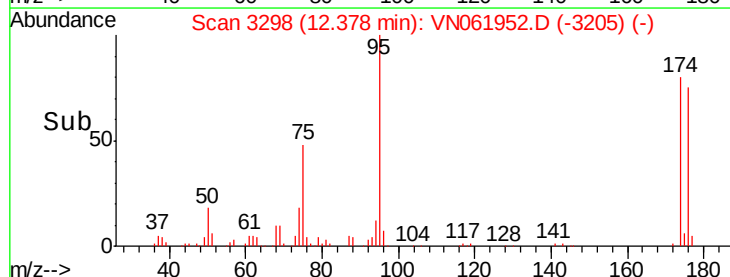
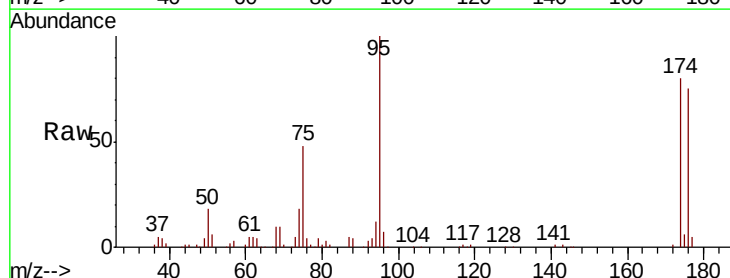
Instrument :
MSVOA_N
ClientSampleId :
S49-0567

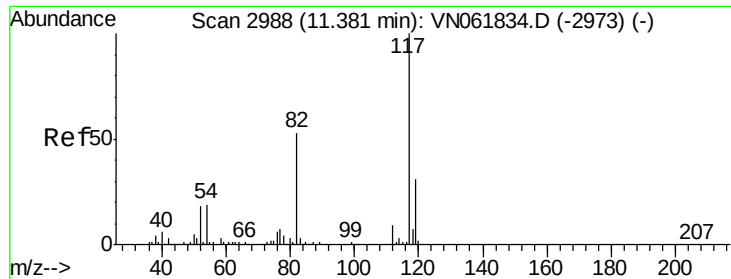
Tot Ion: 43 Resp: 259
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.5#



#62
4-Bromofluorobenzene
Concen: 48.603 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Tgt Ion: 95 Resp: 113230
Ion Ratio Lower Upper
95 100
174 79.3 0.0 158.6
176 75.1 0.0 152.0

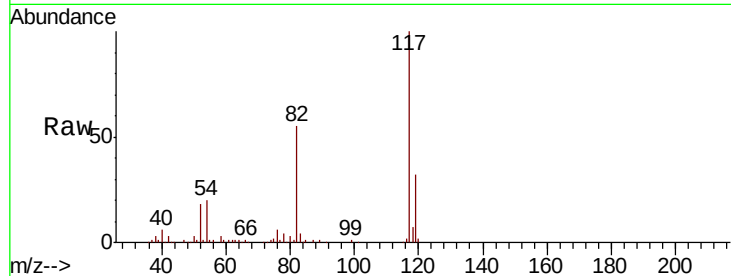




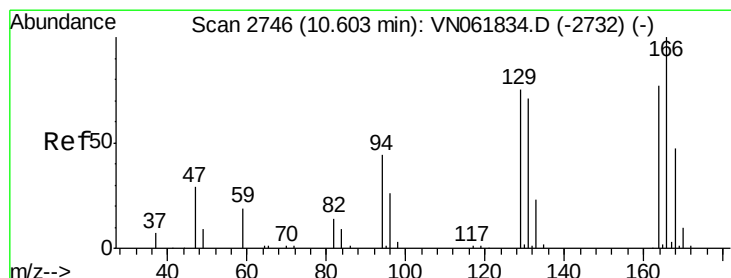
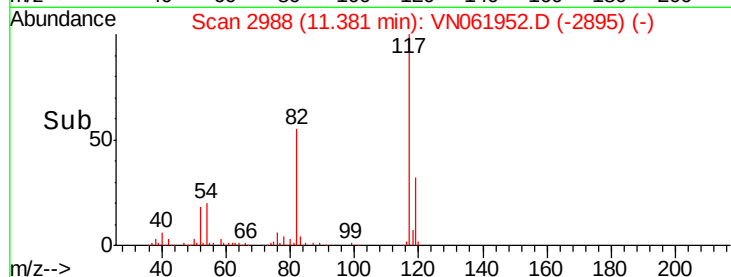
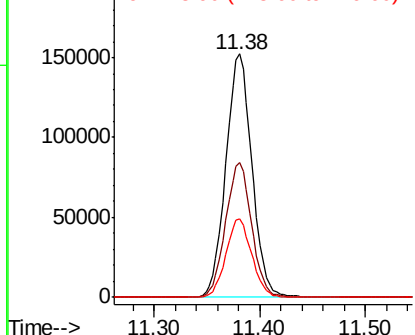
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Instrument :
MSVOA_N
ClientSampleId :
S49-0567

Tot Ion:117 Resp: 260451
Ion Ratio Lower Upper
117 100
82 55.2 42.6 64.0
119 32.0 24.7 37.1

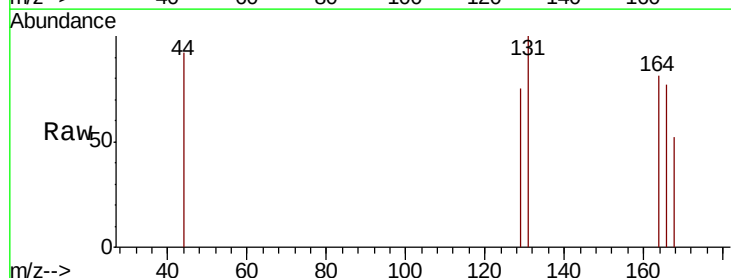


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

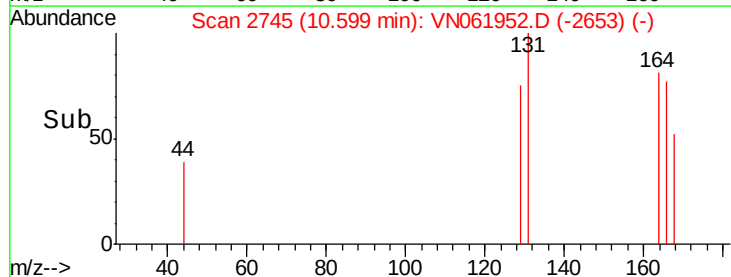
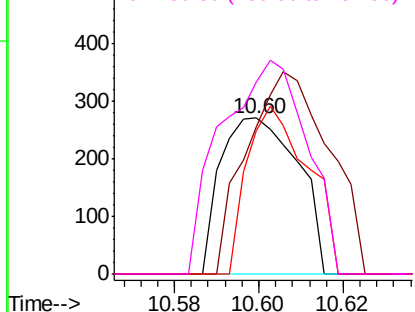


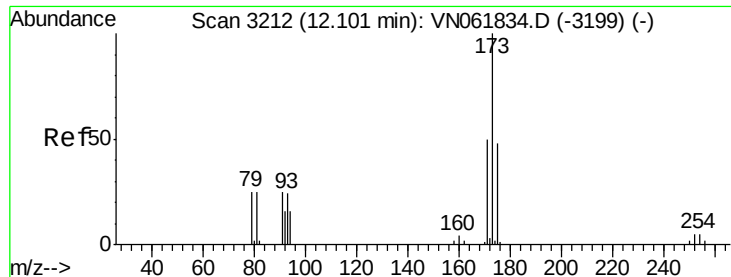
#64
Tetrachloroethene
Concen: 0.208 ug/l
RT: 10.60 min Scan# 2745
Delta R.T. -0.00 min
Lab File: VN061952.D
Acq: 19 Jun 2020 15:14

Tgt Ion:164 Resp: 346
Ion Ratio Lower Upper
164 100
166 94.8 103.5 155.3#
129 92.3 77.5 116.3
131 122.9 73.8 110.8#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.421 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061952.D

Acq: 19 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampleId :

S49-0567

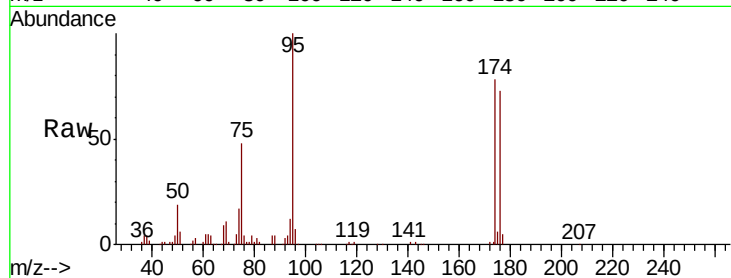
Tot Ion:173 Resp: 588

Ion Ratio Lower Upper

173 100

175 995.9 23.9 71.7#

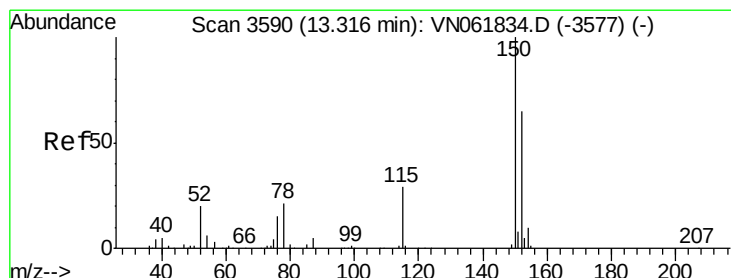
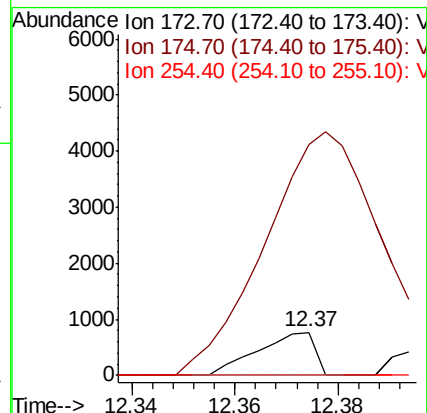
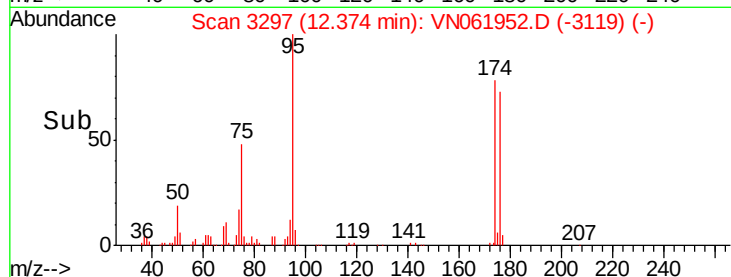
254 0.0 0.0 0.0



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: VN061952.D

Acq: 19 Jun 2020 15:14

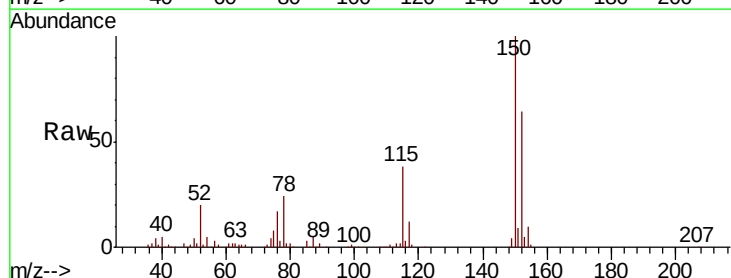
Tgt Ion:152 Resp: 105537

Ion Ratio Lower Upper

152 100

115 59.1 29.1 87.3

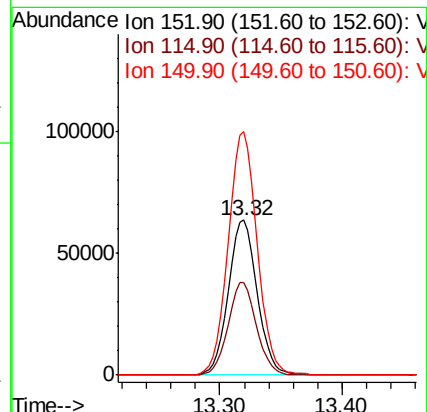
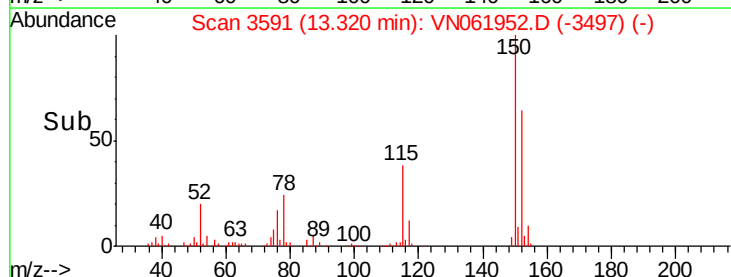
150 157.6 0.0 347.6

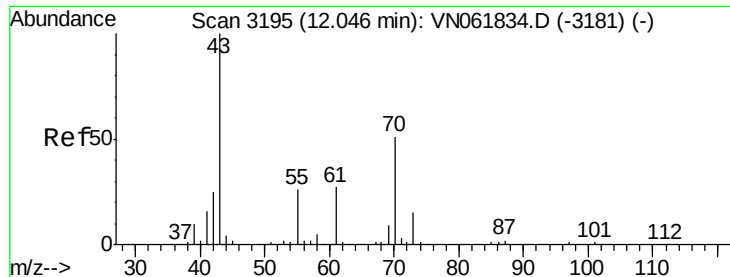


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.118 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VN061952.D

Acq: 19 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampleId :

S49-0567

Tot Ion: 43 Resp: 155

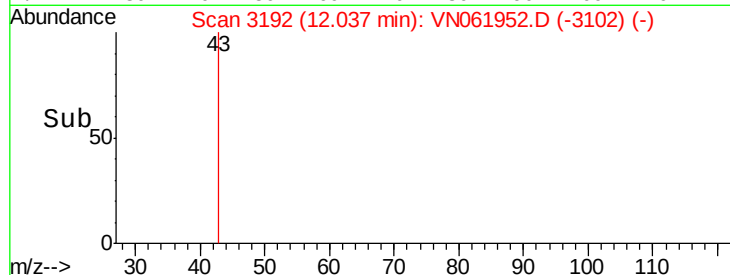
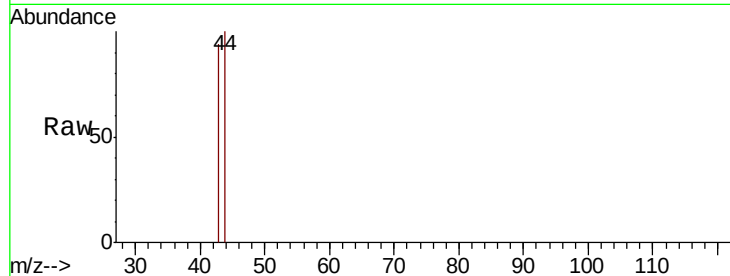
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

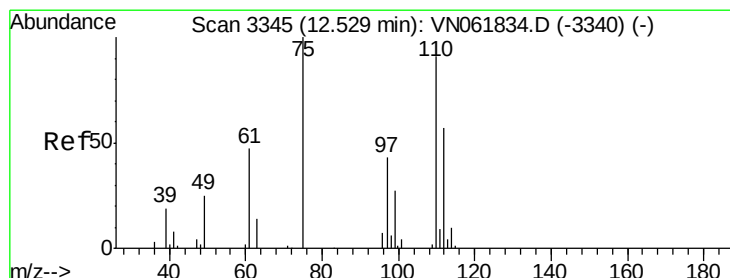
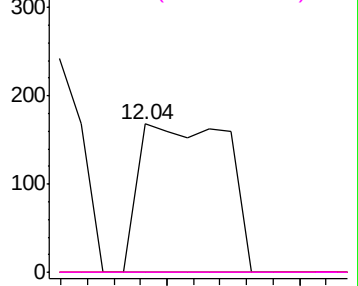


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.164 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061952.D

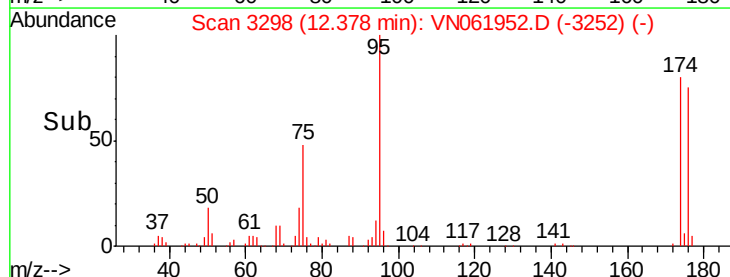
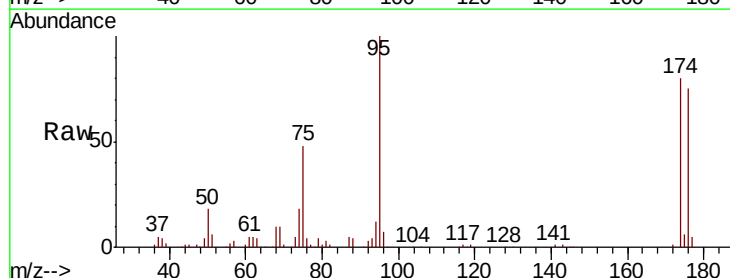
Acq: 19 Jun 2020 15:14

Tgt Ion: 75 Resp: 56282

Ion Ratio Lower Upper

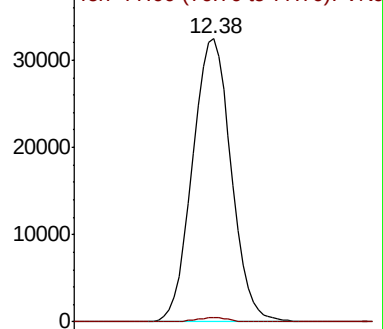
75 100

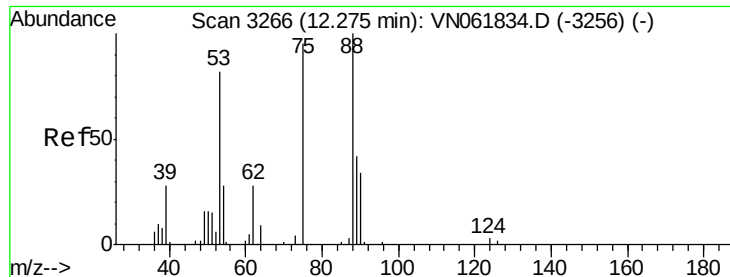
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.087 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061952.D

Acq: 19 Jun 2020 15:14

Instrument :

MSVOA_N

ClientSampleId :

S49-0567

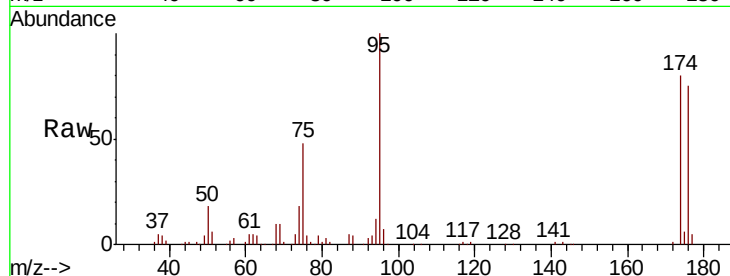
Tot Ion: 75 Resp: 56282

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#

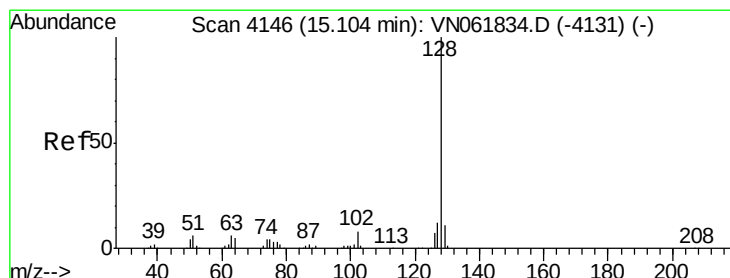
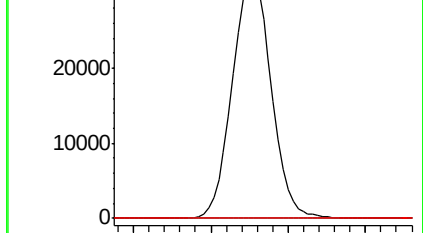
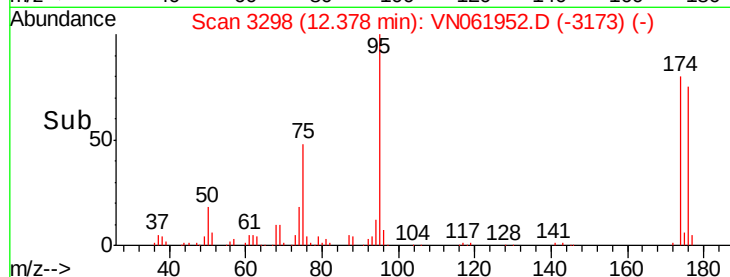


Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061834.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061834.D (-3256) (-)

Time-->



#95

Naphthalene

Concen: 3.510 ug/l

RT: 15.10 min Scan# 4145

Delta R.T. -0.00 min

Lab File: VN061952.D

Acq: 19 Jun 2020 15:14

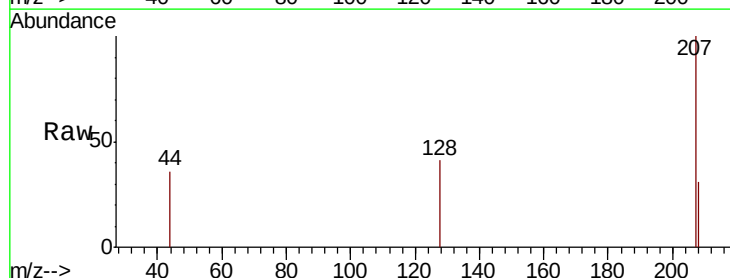
Tgt Ion: 128 Resp: 149

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN061834.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN061834.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN061834.D (-4131) (-)

Time-->

