

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082620\
 Data File : VN063137.D
 Acq On : 26 Aug 2020 16:59
 Operator : JC/MD
 Sample : L3787-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1498

Quant Time: Aug 27 00:54:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	154556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	259865	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	266628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	115681	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	97051	52.98	ug/l	0.00
Spiked Amount			Recovery	=	105.96%	
35) Dibromofluoromethane	7.55	113	86110	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
50) Toluene-d8	10.06	98	331026	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	12.38	95	121685	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	

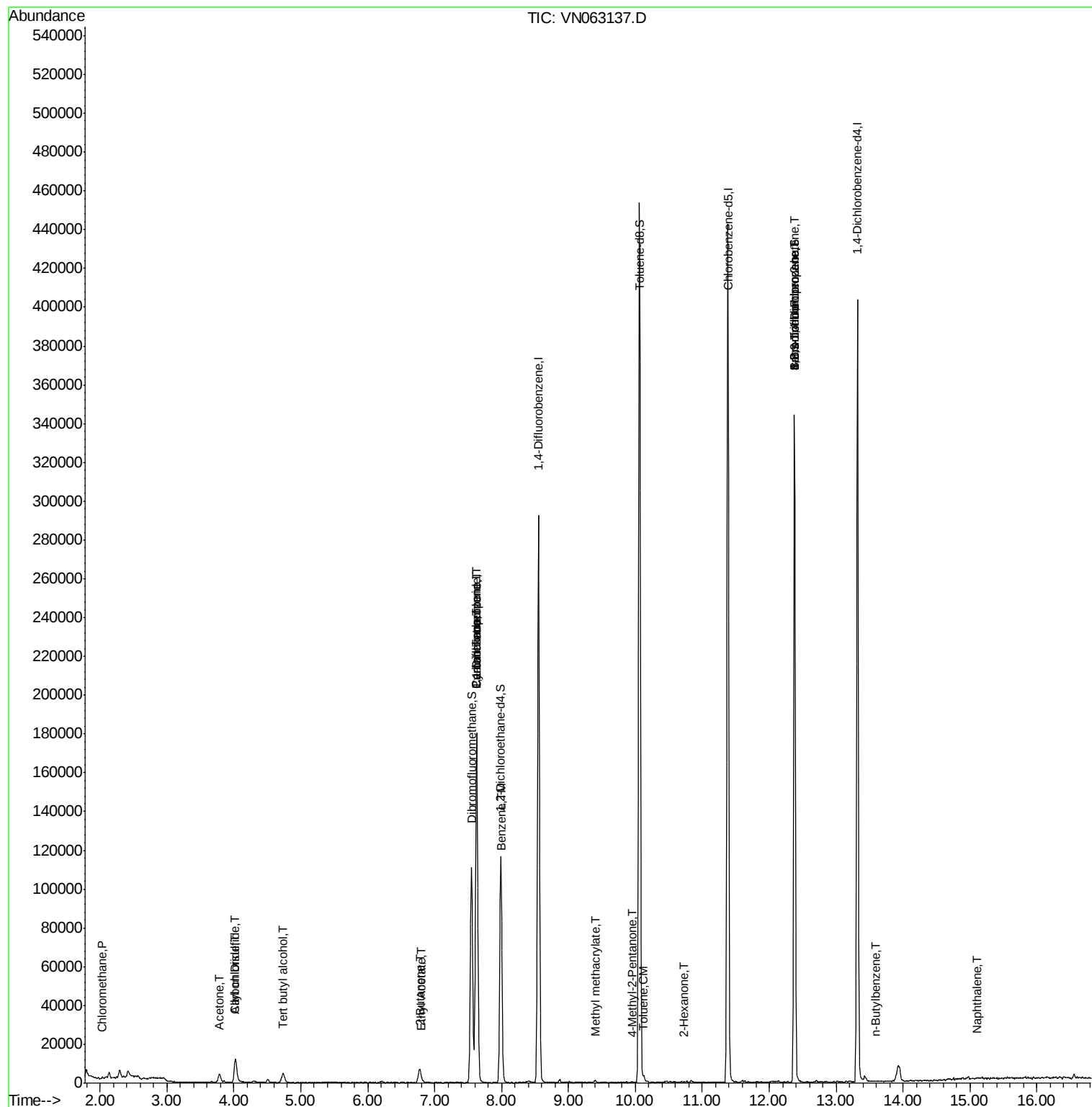
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	615	0.290	ug/l #	42
11) Tert butyl alcohol	4.73	59	9859	37.998	ug/l #	94
14) Allyl chloride	4.03	41	2174	0.940	ug/l #	83
16) Acetone	3.78	43	8634	11.371	ug/l	96
17) Carbon Disulfide	4.01	76	943	0.274	ug/l #	76
20) Methylene Chloride	4.52	84	1090	Below Cal	#	61
25) 2-Butanone	6.79	43	1176	1.209	ug/l	94
31) Cyclohexane	7.62	56	2940	1.089	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11290	4.930	ug/l #	49
37) Ethyl Acetate	6.81	43	1022	0.476	ug/l #	68
38) Carbon Tetrachloride	7.63	117	13947	6.032	ug/l #	16
40) Benzene	8.01	78	1531	0.211	ug/l	95
48) Methyl methacrylate	9.40	41	547	0.325	ug/l #	11
51) 4-Methyl-2-Pentanone	9.95	43	829	0.369	ug/l #	35
52) Toluene	10.13	92	1188	0.271	ug/l	96
59) 2-Hexanone	10.73	43	374	0.239	ug/l #	23
71) Bromoform	12.37	173	1007	0.607	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	57033	25.364	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	57033	69.661	ug/l #	15
89) n-Butylbenzene	13.59	91	219	2.803	ug/l #	34
95) Naphthalene	15.11	128	843	5.804	ug/l #	69

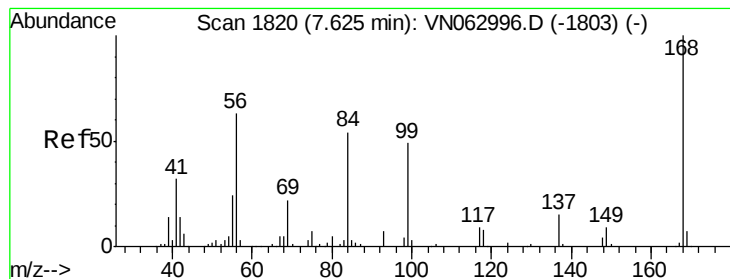
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN063137.D

Acq: 26 Aug 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

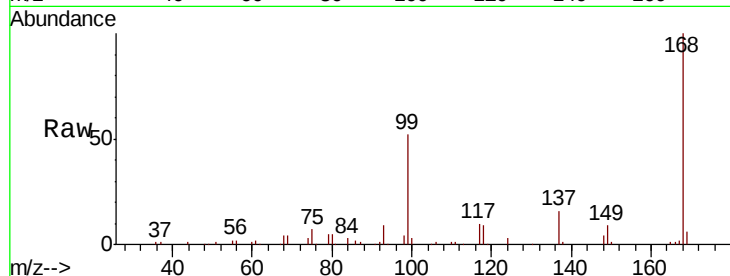
1498

Tot Ion:168 Resp: 154556

Ion Ratio Lower Upper

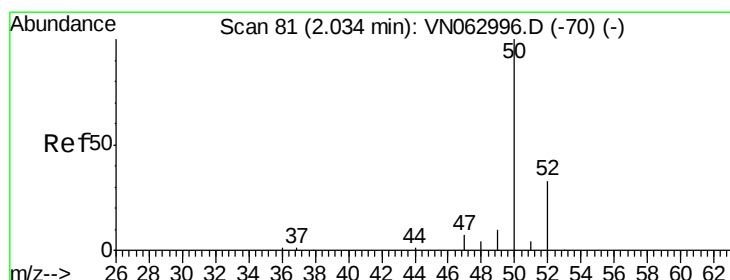
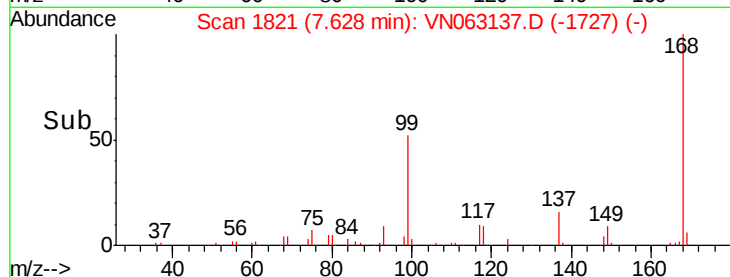
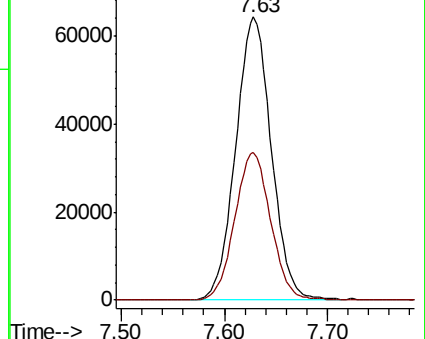
168 100

99 52.2 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.290 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN063137.D

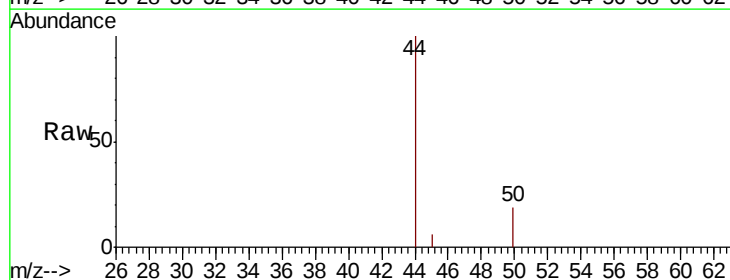
Acq: 26 Aug 2020 16:59

Tgt Ion: 50 Resp: 615

Ion Ratio Lower Upper

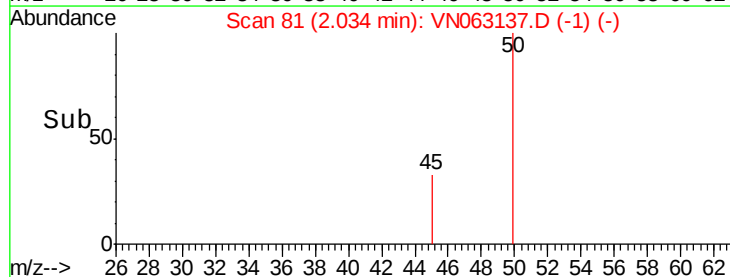
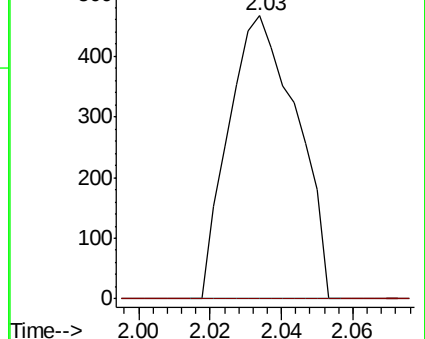
50 100

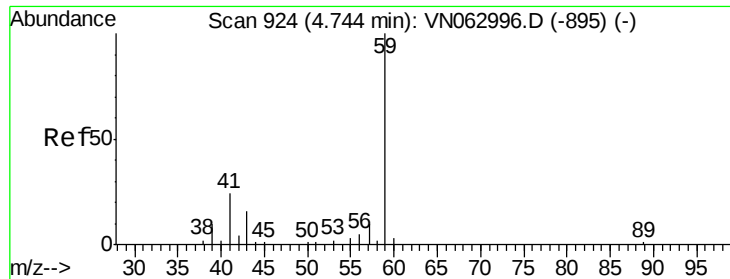
52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

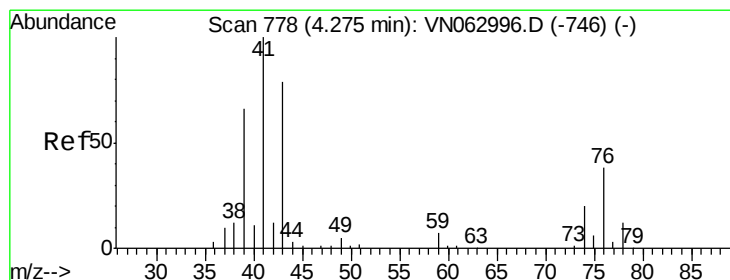
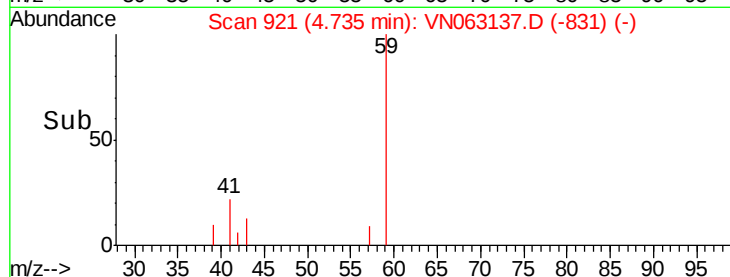
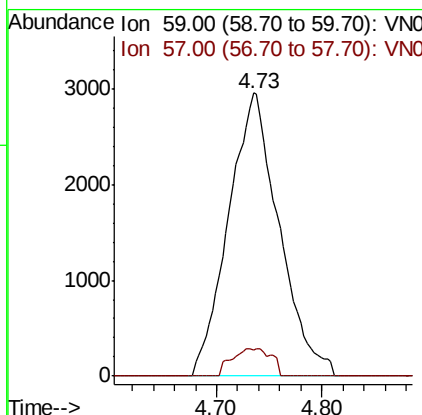
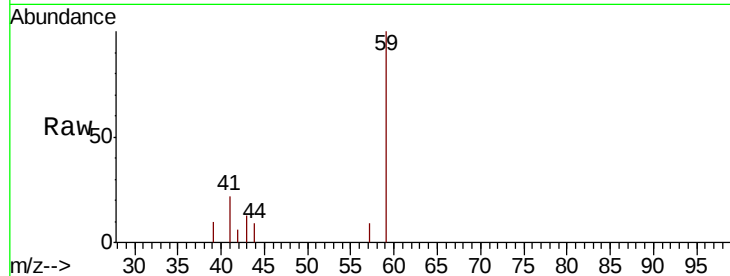




#11
Tert butyl alcohol
Concen: 37.998 ug/l
RT: 4.73 min Scan# 921
Delta R.T. -0.01 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

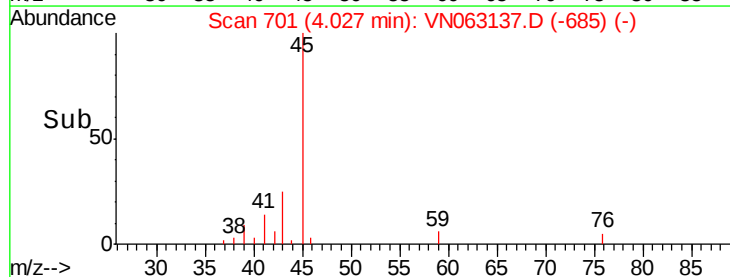
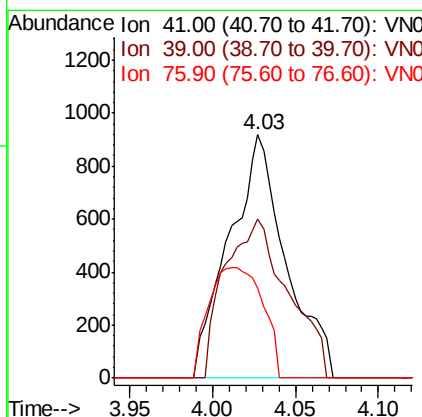
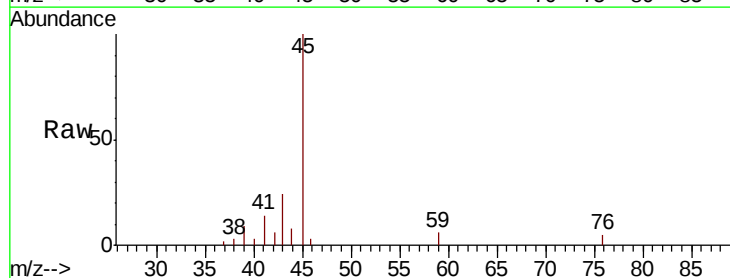
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MSVOA_N
ClientSampled :
1498

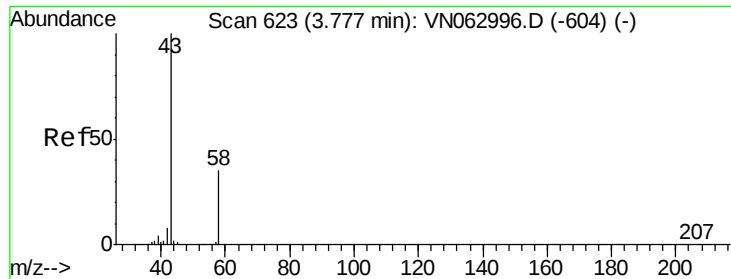
Tot Ion: 59 Resp: 9859
Ion Ratio Lower Upper
59 100
57 7.5 7.8 11.6#



#14
Allyl chloride
Concen: 0.940 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.25 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Tgt Ion: 41 Resp: 2174
Ion Ratio Lower Upper
41 100
39 73.0 47.9 71.9#
76 43.4 27.0 40.6#





#16

Acetone

Concen: 11.371 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN063137.D

Acq: 26 Aug 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

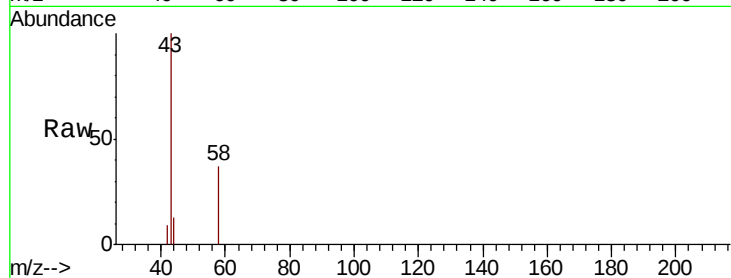
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Tot Ion: 43 Resp: 8634

Ion Ratio Lower Upper

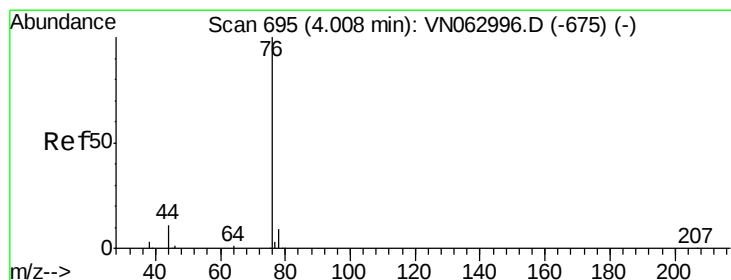
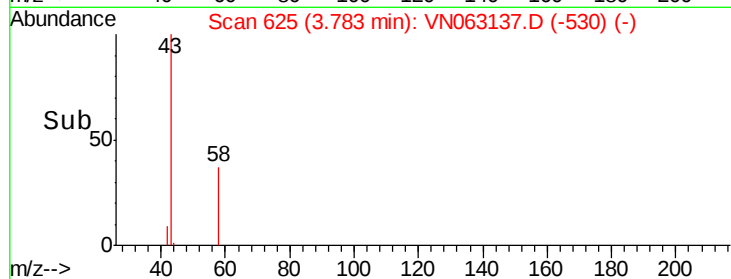
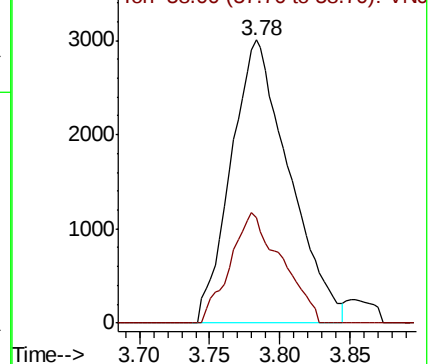
43 100

58 37.2 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.274 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN063137.D

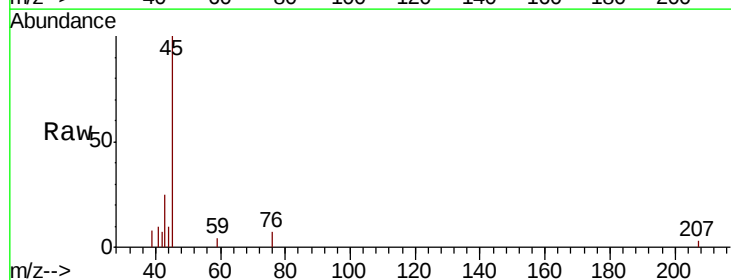
Acq: 26 Aug 2020 16:59

Tgt Ion: 76 Resp: 943

Ion Ratio Lower Upper

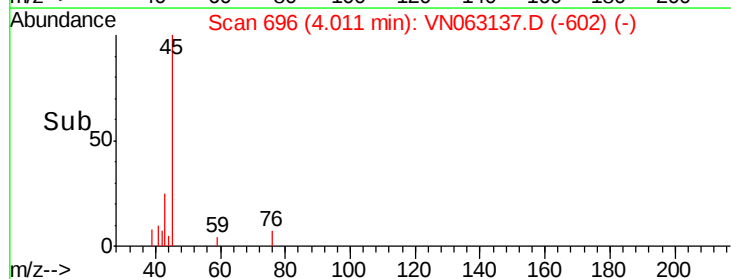
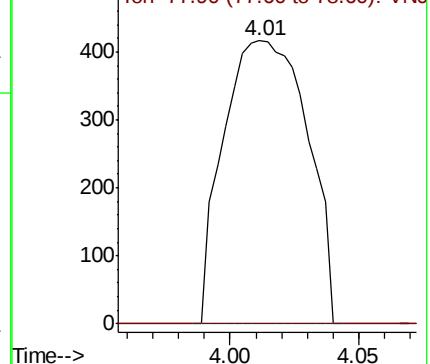
76 100

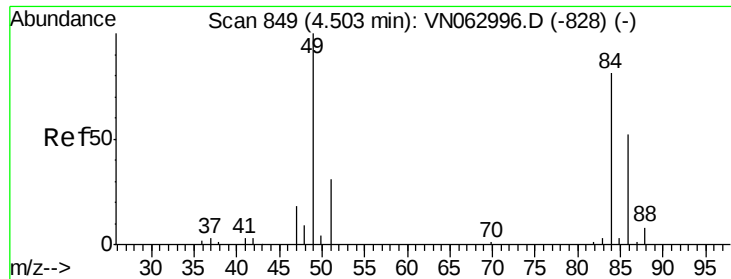
78 0.0 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

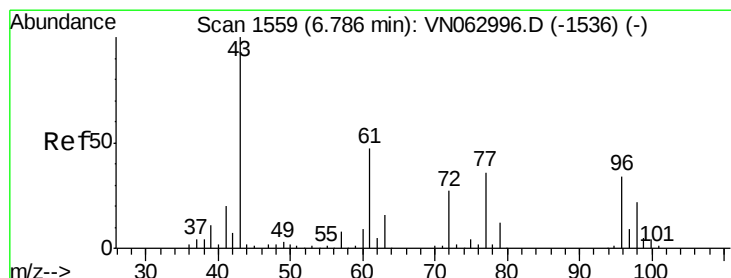
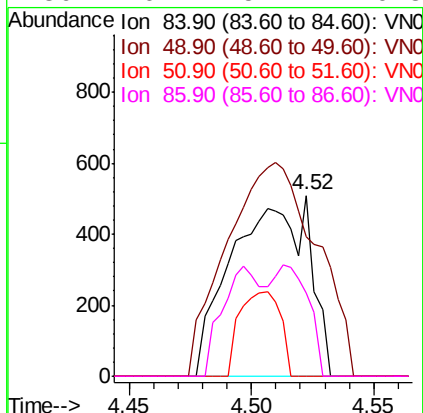
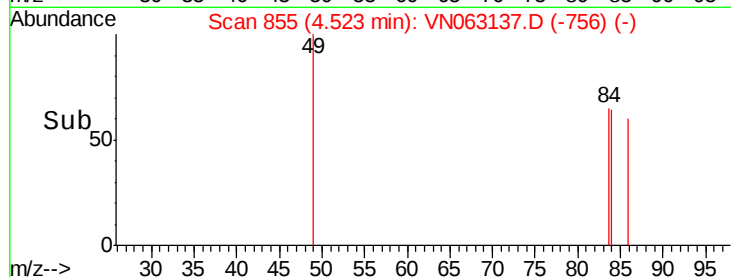
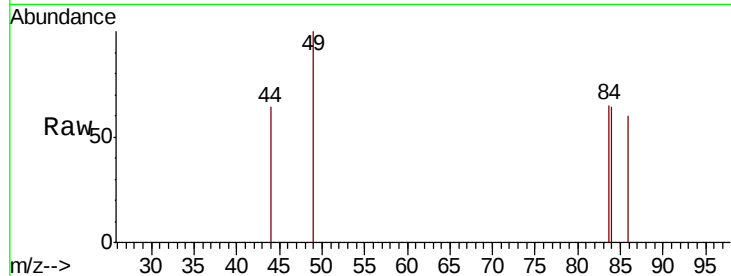




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 855
Delta R.T. 0.02 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

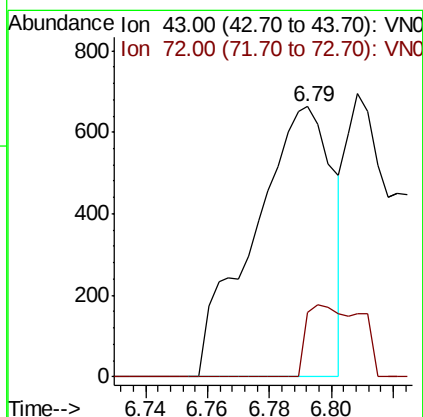
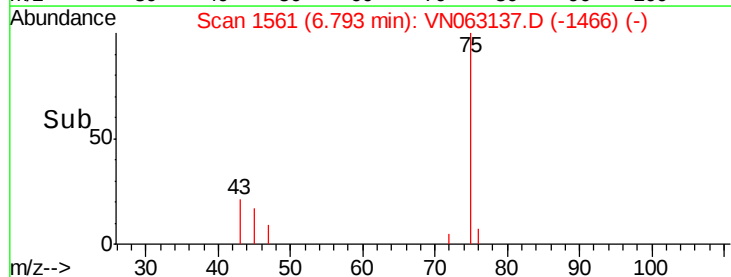
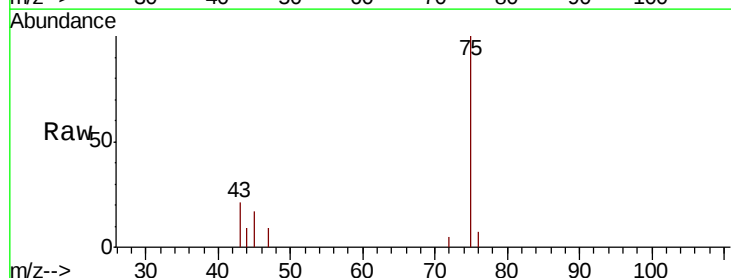
Instrument :
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ClientSampled :
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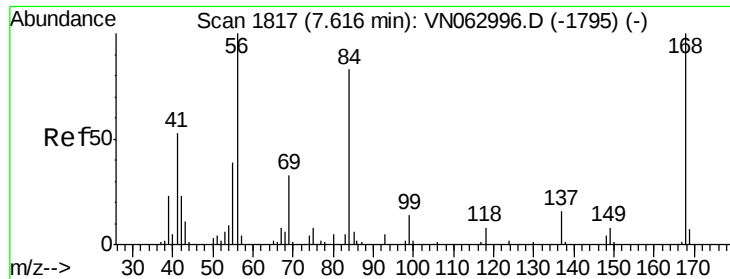
Tot Ion: 84 Resp: 1090
Ion Ratio Lower Upper
84 100
49 77.6 98.7 148.1#
51 0.0 30.8 46.2#
86 46.4 51.2 76.8#



#25
2-Butanone
Concen: 1.209 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Tgt Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
72 24.0 21.8 32.6

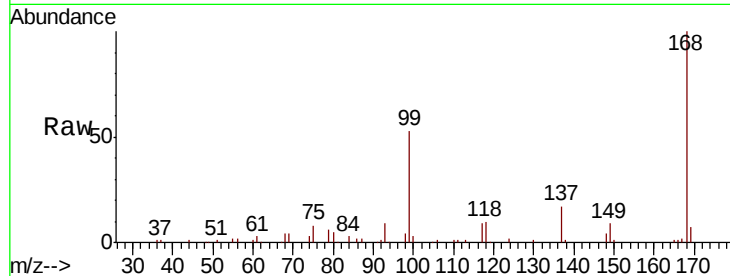




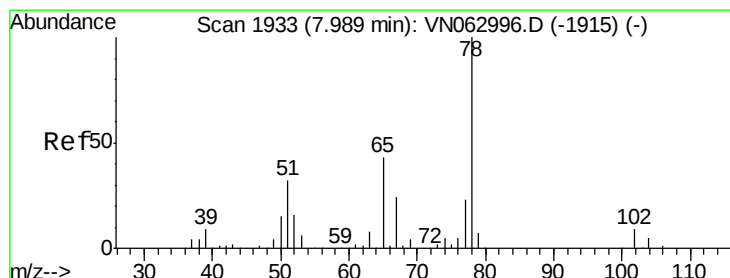
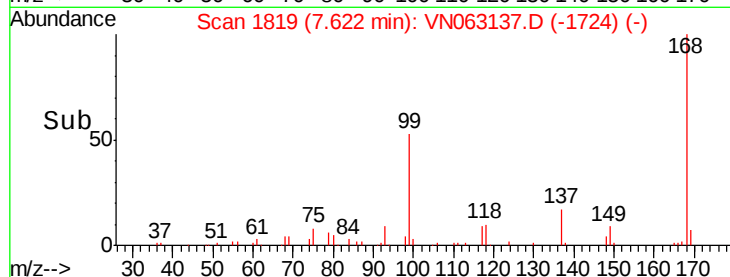
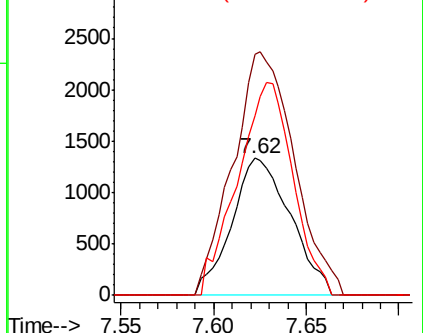
#31
Cyclohexane
Concen: 1.089 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Instrument :
MSVOA_N
ClientSampled :
1498

Tot Ion: 56 Resp: 2940
Ion Ratio Lower Upper
56 100
69 175.7 26.6 40.0#
84 131.2 66.4 99.6#

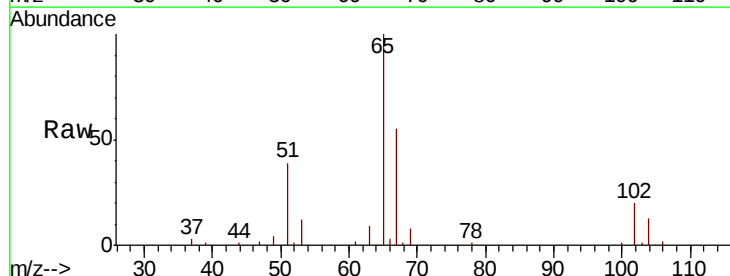


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

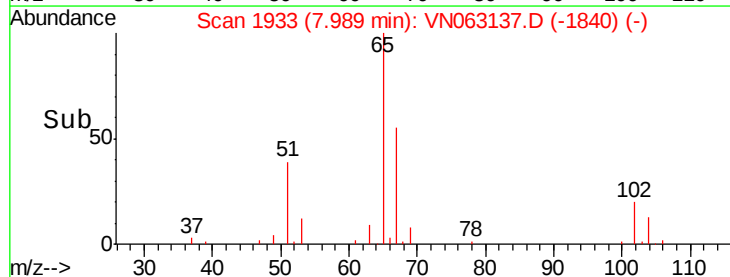
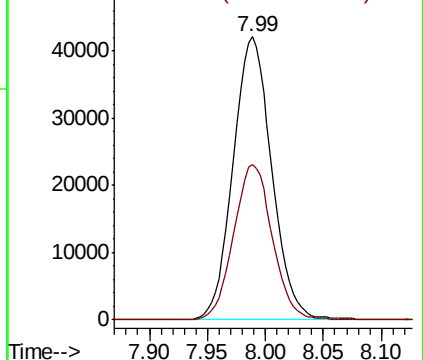


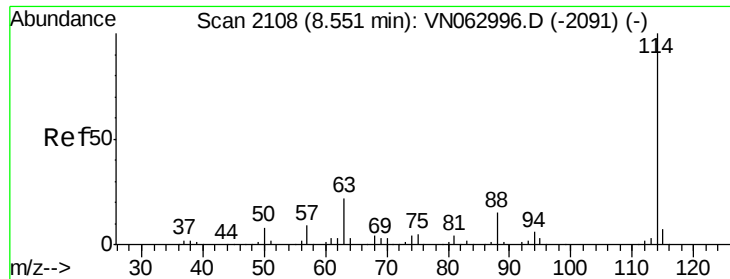
#33
1,2-Dichloroethane-d4
Concen: 52.982 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Tgt Ion: 65 Resp: 97051
Ion Ratio Lower Upper
65 100
67 54.9 0.0 112.0



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

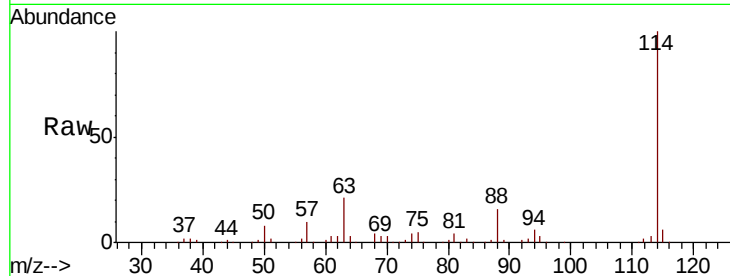




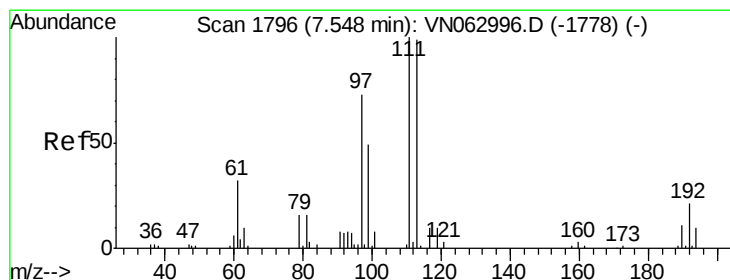
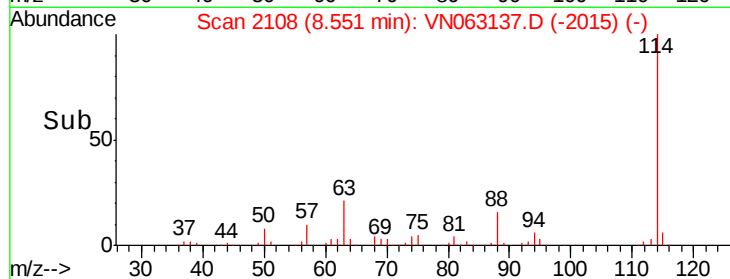
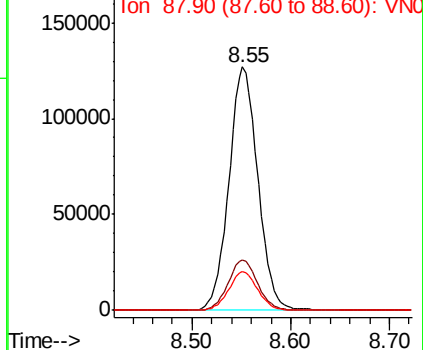
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063137.D
 Acq: 26 Aug 2020 16:59

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 1498

Tot Ion:114 Resp: 259865
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.2
 88 15.9 0.0 30.6

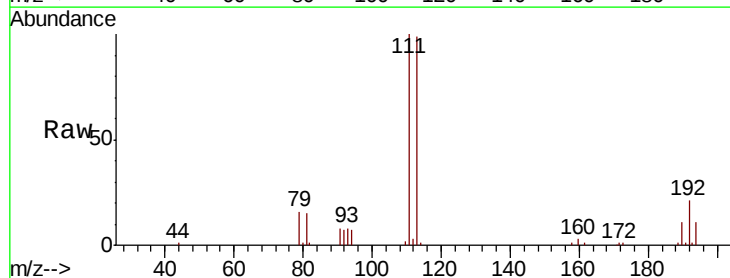


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

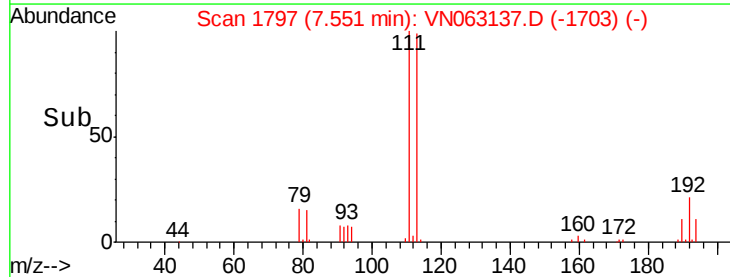
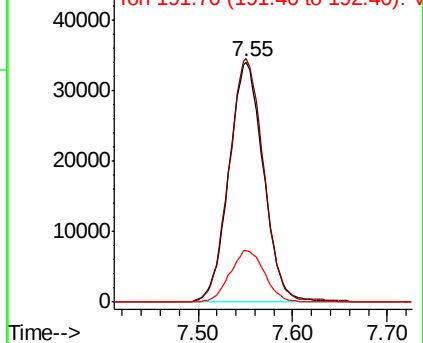


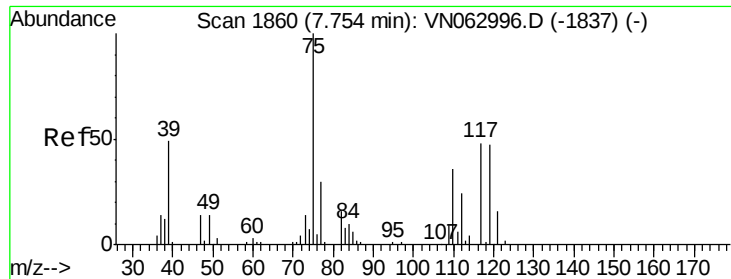
#35
 Dibromofluoromethane
 Concen: 50.854 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN063137.D
 Acq: 26 Aug 2020 16:59

Tgt Ion:113 Resp: 86110
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.7 122.5
 192 21.5 17.5 26.3



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

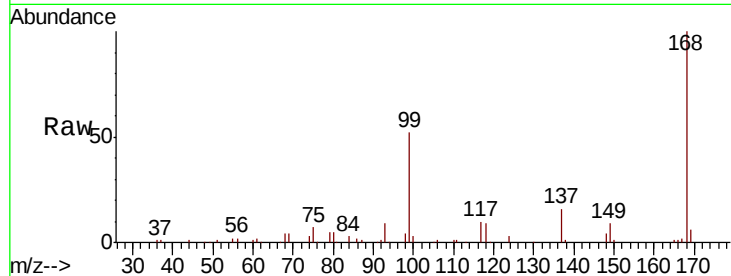




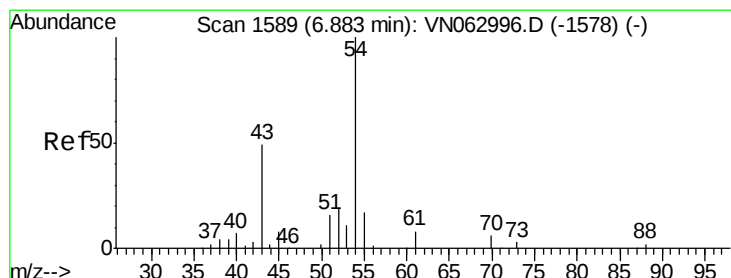
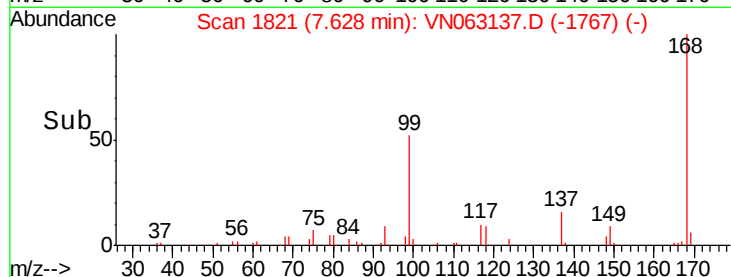
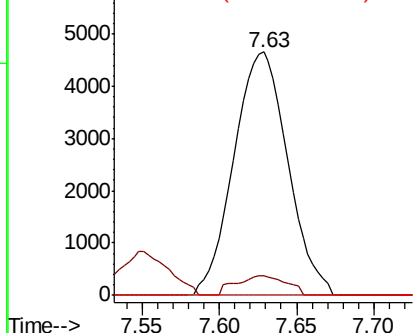
#36
 1,1-Dichloropropene
 Concen: 4.930 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.13 min
 Lab File: VN063137.D
 Acq: 26 Aug 2020 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 1498

Tot Ion: 75 Resp: 11290
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.5 52.6#
 77 0.0 24.2 36.4#

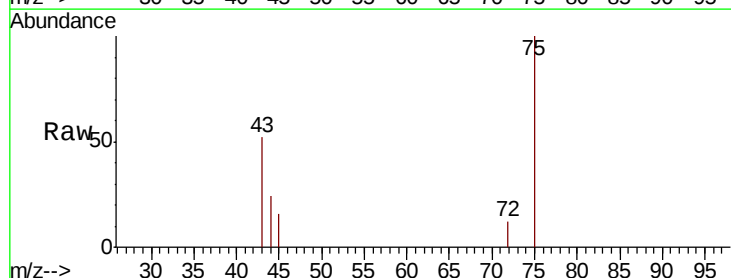


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

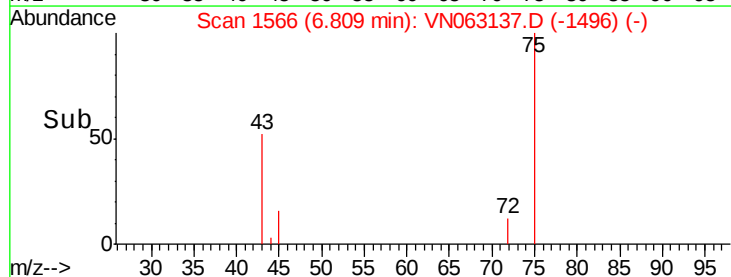
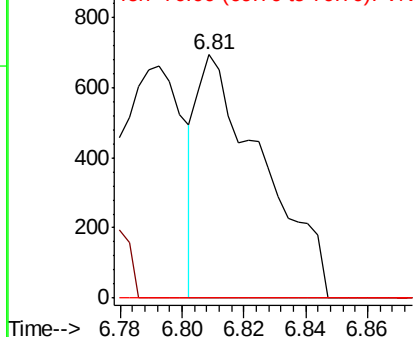


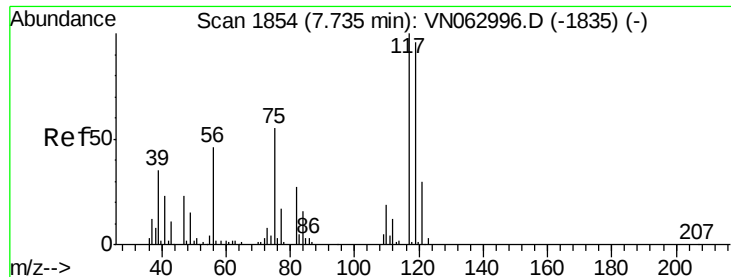
#37
 Ethyl Acetate
 Concen: 0.476 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.07 min
 Lab File: VN063137.D
 Acq: 26 Aug 2020 16:59

Tgt Ion: 43 Resp: 1022
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.8 17.8#
 70 0.0 8.2 12.2#



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

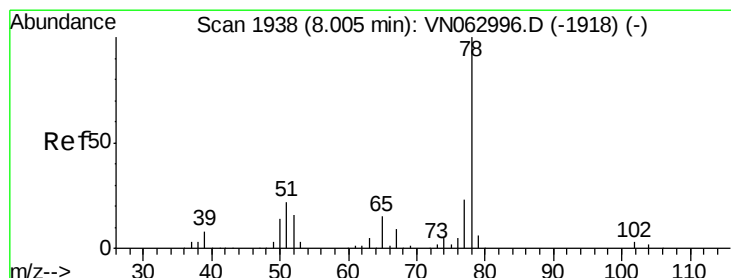
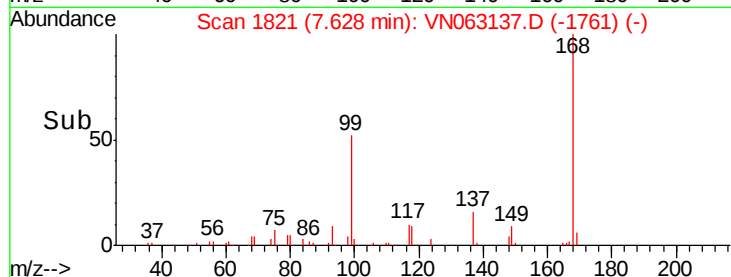
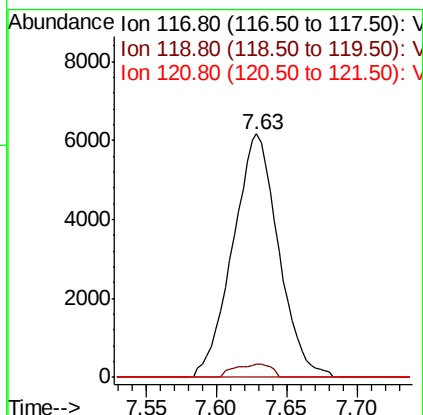
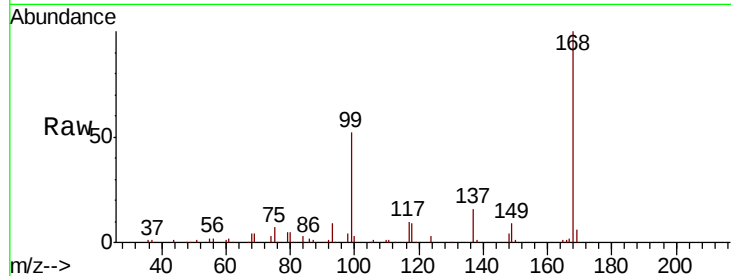




#38
Carbon Tetrachloride
Concen: 6.032 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.11 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

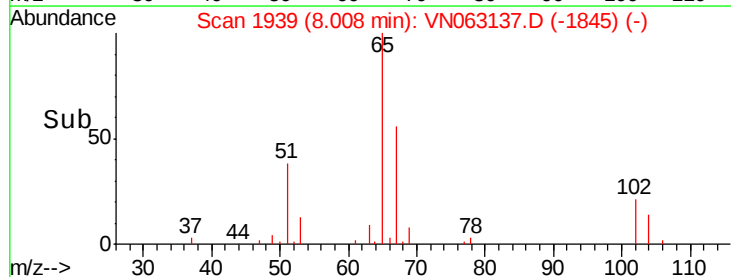
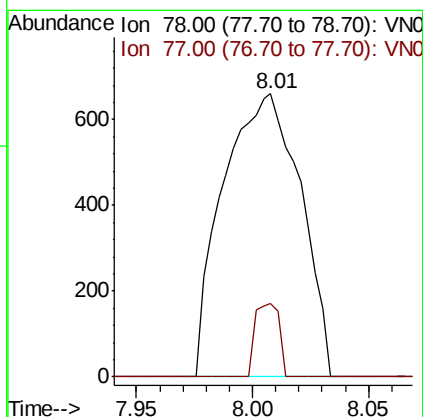
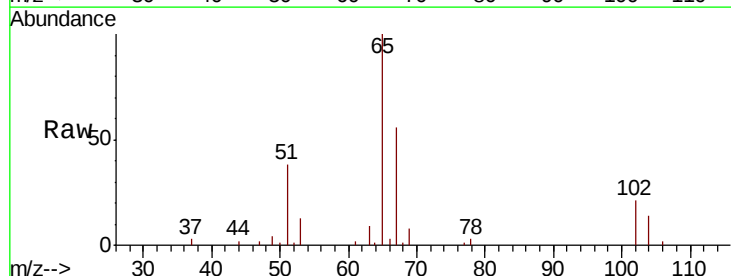
Instrument :
MSVOA_N
ClientSampled :
1498

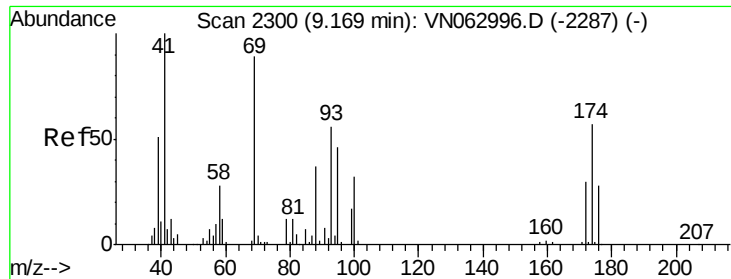
Tot Ion:117 Resp: 13947
Ion Ratio Lower Upper
117 100
119 5.2 76.2 114.4#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 0.211 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Tgt Ion: 78 Resp: 1531
Ion Ratio Lower Upper
78 100
77 25.8 18.8 28.2

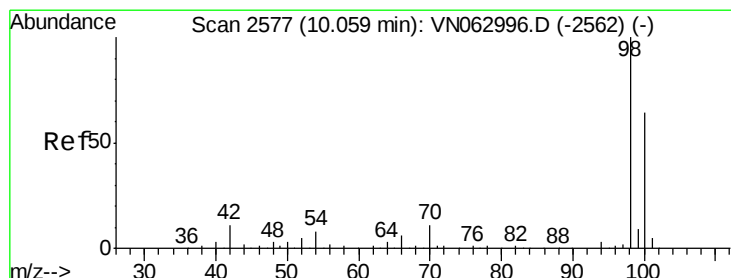
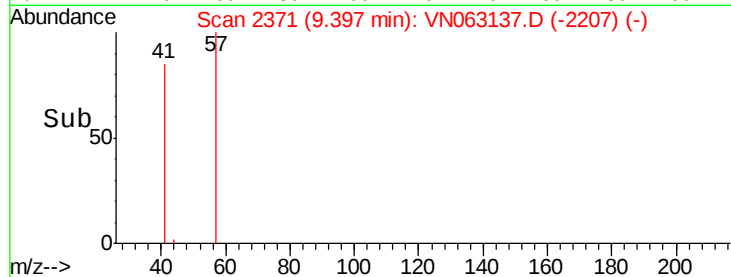
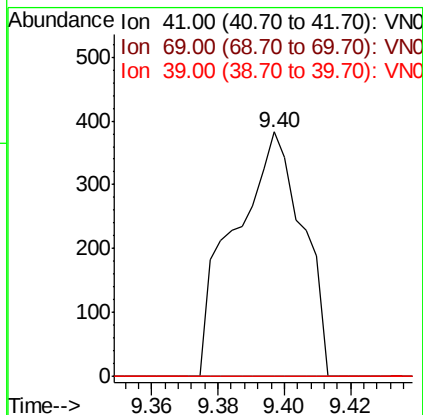
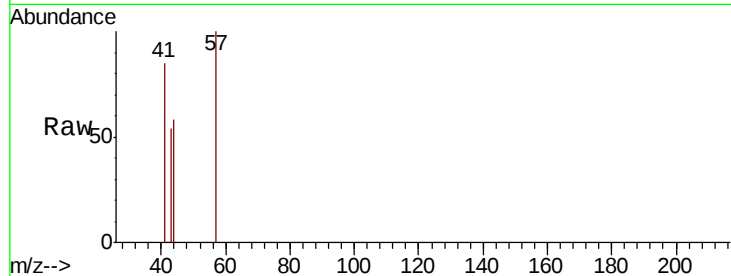




#48
Methvl methacrylate
Concen: 0.325 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.23 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

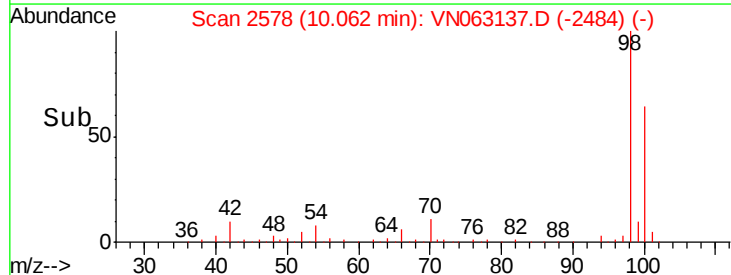
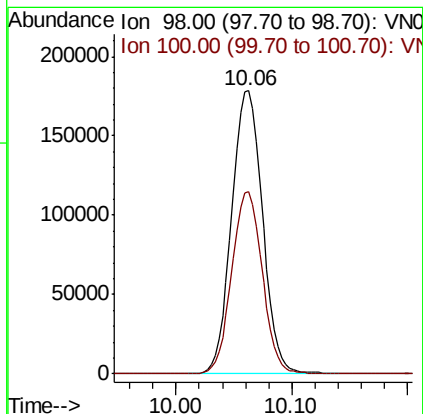
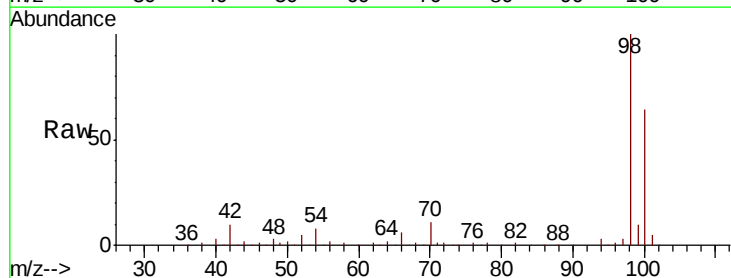
Instrument :
MSVOA_N
ClientSampled :
1498

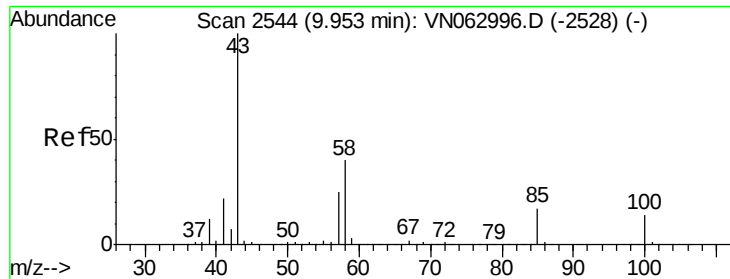
Tot Ion: 41 Resp: 547
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.4#
39 0.0 42.5 63.7#



#50
Toluene-d8
Concen: 50.896 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.00 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Tgt Ion: 98 Resp: 331026
Ion Ratio Lower Upper
98 100
100 63.6 51.2 76.8

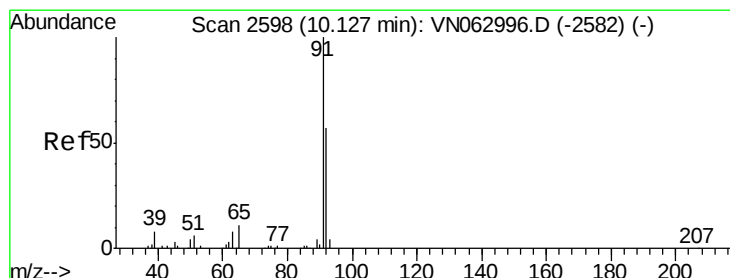
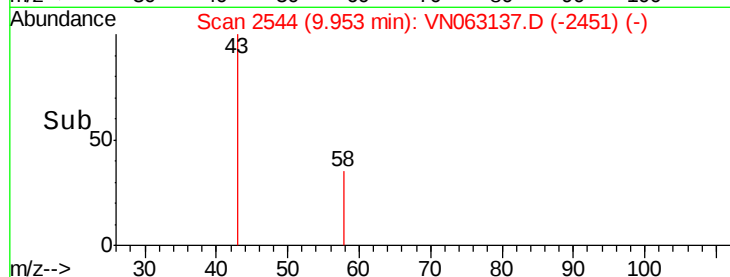
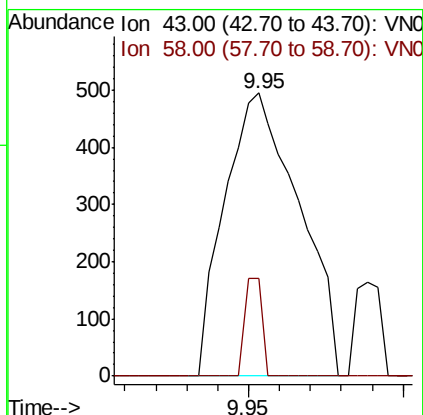
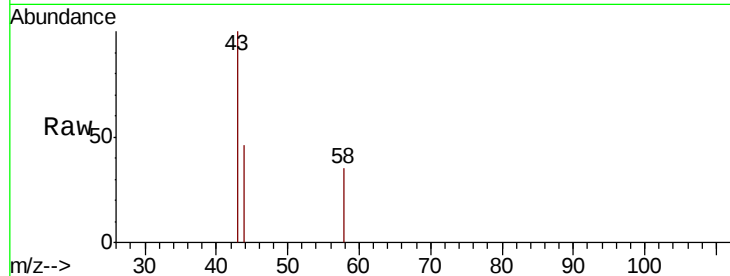




#51
 4-Methyl-2-Pentanone
 Concen: 0.369 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN063137.D
 Acq: 26 Aug 2020 16:59

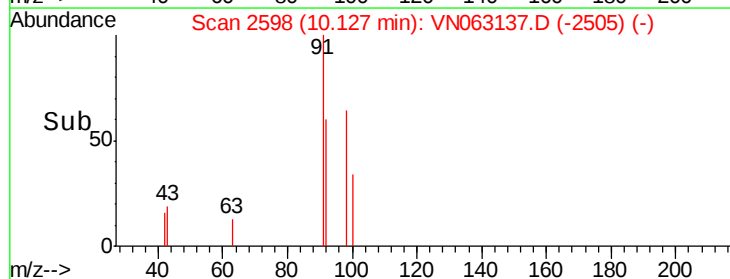
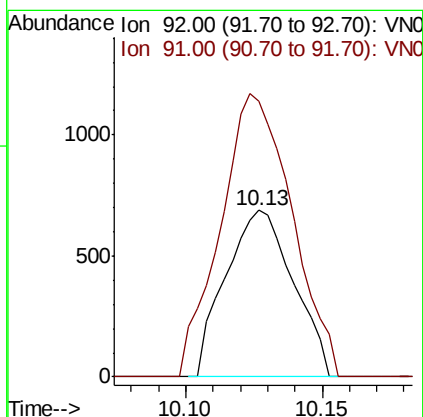
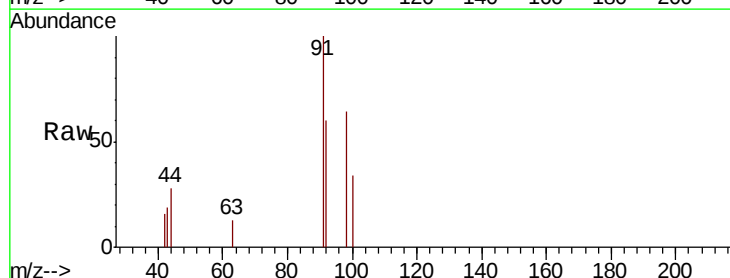
Instrument :
 MSVOA_N
 ClientSampled :
 1498

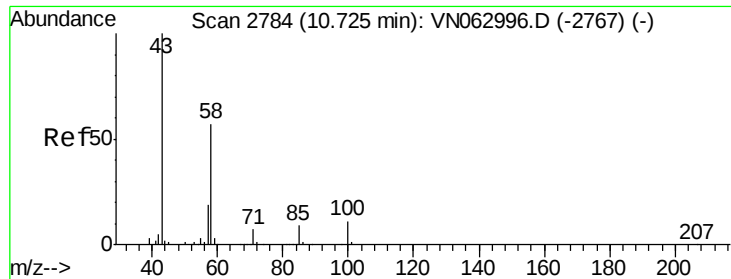
Tot Ion: 43 Resp: 829
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.2 48.2#



#52
 Toluene
 Concen: 0.271 ug/l
 RT: 10.13 min Scan# 2598
 Delta R.T. 0.00 min
 Lab File: VN063137.D
 Acq: 26 Aug 2020 16:59

Tgt Ion: 92 Resp: 1188
 Ion Ratio Lower Upper
 92 100
 91 179.0 139.2 208.8

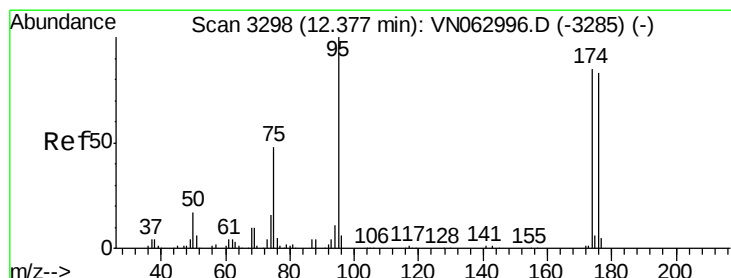
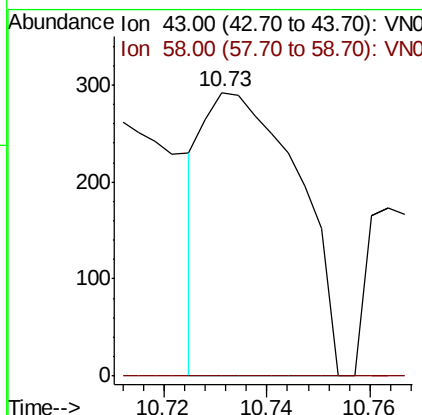
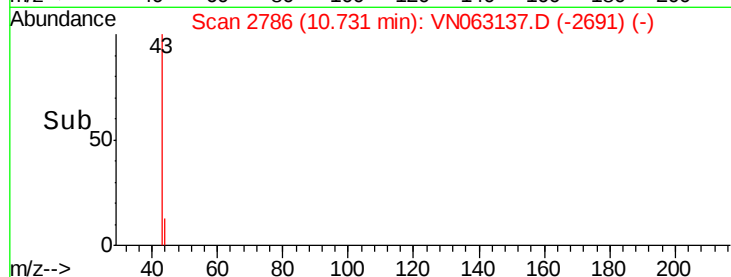
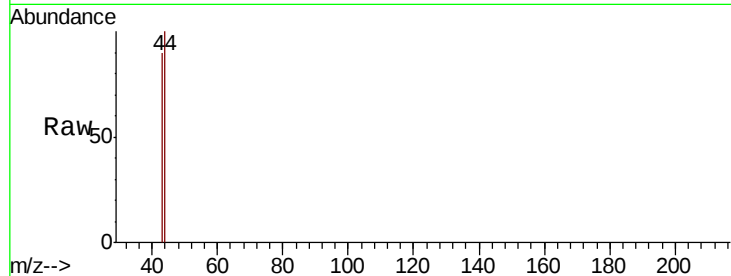




#59
2-Hexanone
Concen: 0.239 ug/l
RT: 10.73 min Scan# 2786
Delta R.T. 0.01 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

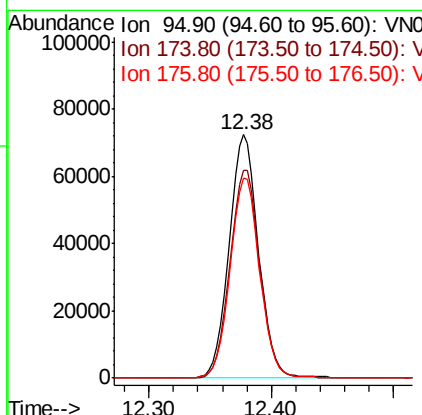
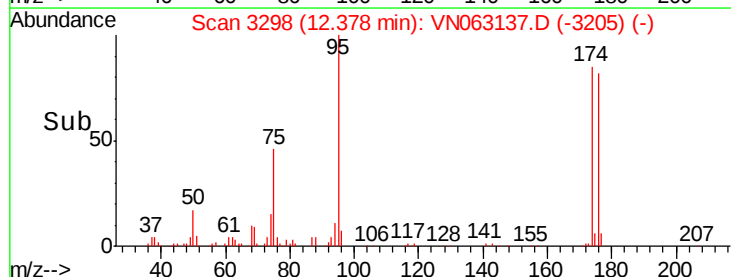
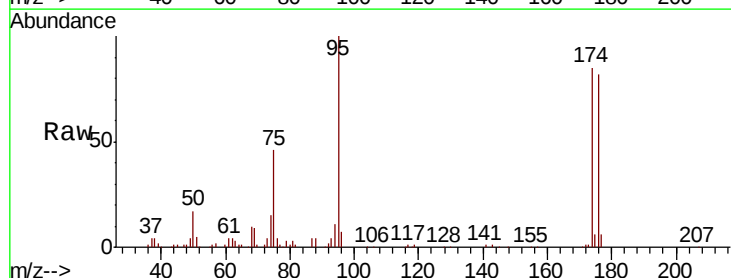
Instrument :
MSVOA_N
ClientSampled :
1498

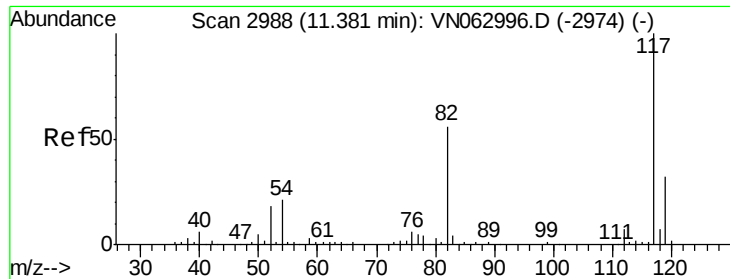
Tot Ion: 43 Resp: 374
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 53.019 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Tgt Ion: 95 Resp: 121685
Ion Ratio Lower Upper
95 100
174 86.6 0.0 170.8
176 82.9 0.0 164.8

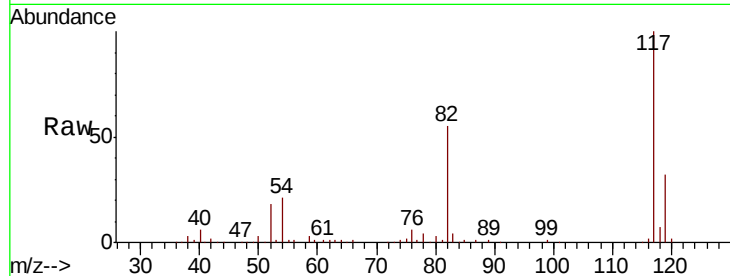




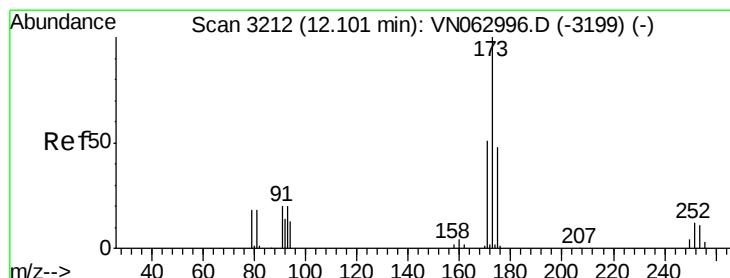
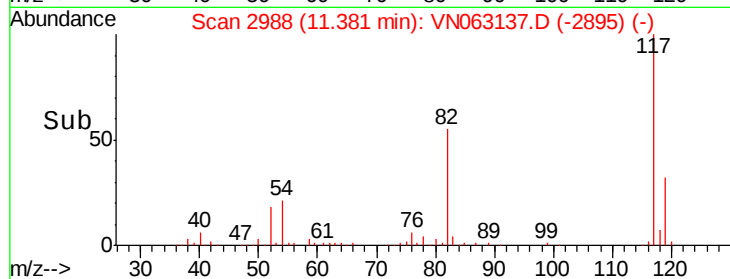
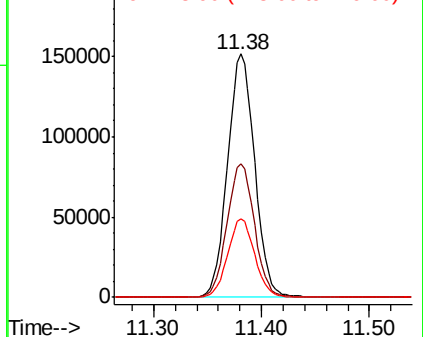
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Instrument :
MSVOA_N
ClientSampleId :
1498

Tot Ion:117 Resp: 266628
Ion Ratio Lower Upper
117 100
82 55.0 44.5 66.7
119 32.4 25.5 38.3

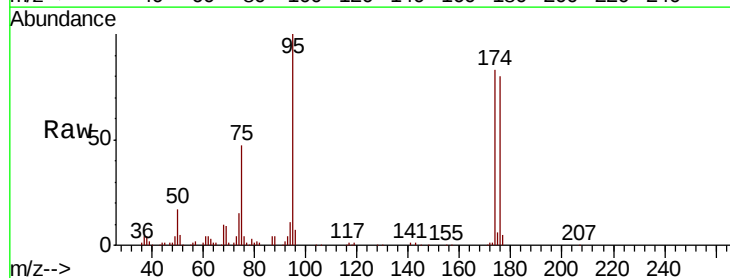


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

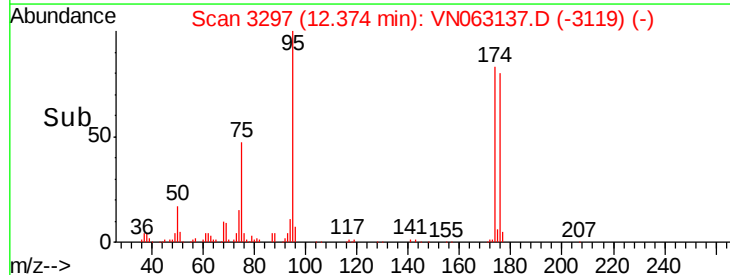
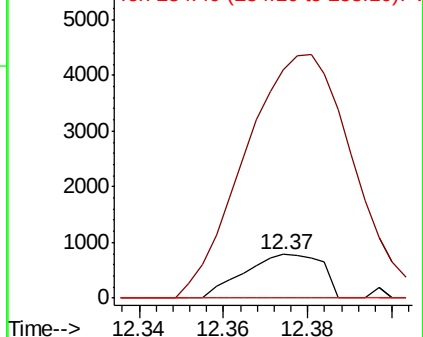


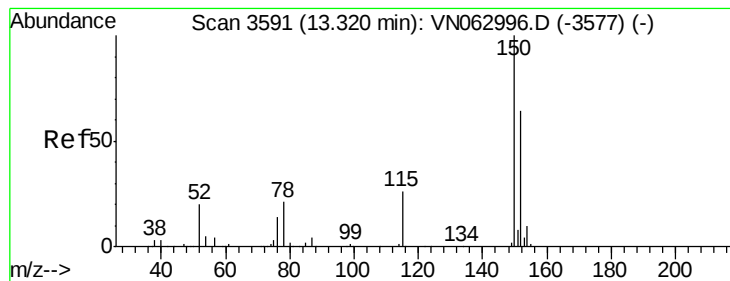
#71
Bromoform
Concen: 0.607 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN063137.D
Acq: 26 Aug 2020 16:59

Tgt Ion:173 Resp: 1007
Ion Ratio Lower Upper
173 100
175 641.0 24.3 72.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063137.D

Acq: 26 Aug 2020 16:59

Instrument :

MSVOA_N

ClientSampled :

1498

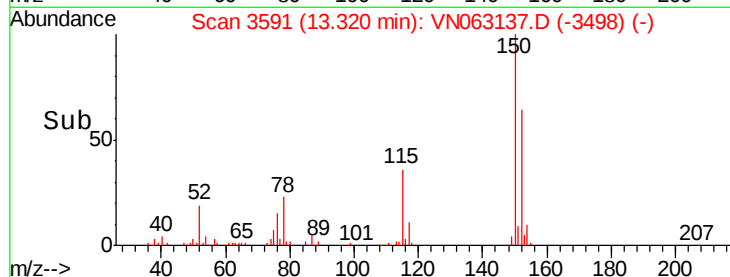
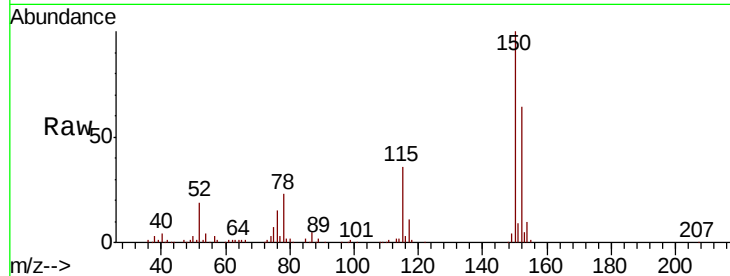
Tot Ion:152 Resp: 115681

Ion Ratio Lower Upper

152 100

115 57.1 28.7 86.3

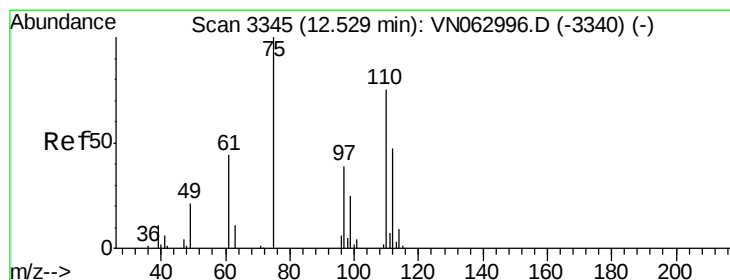
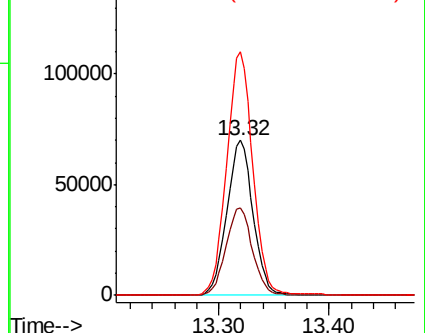
150 156.5 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.364 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063137.D

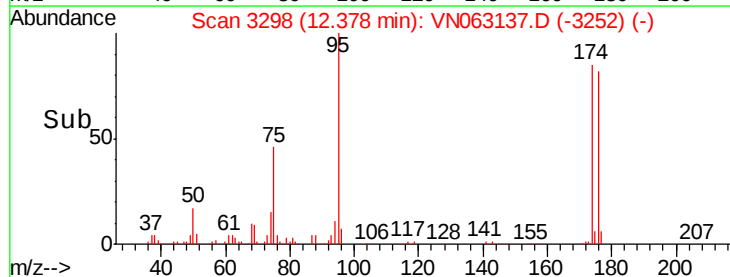
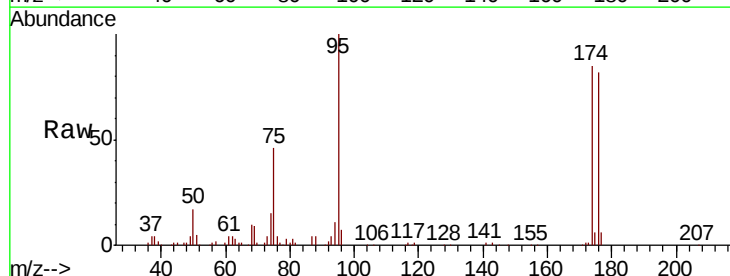
Acq: 26 Aug 2020 16:59

Tgt Ion: 75 Resp: 57033

Ion Ratio Lower Upper

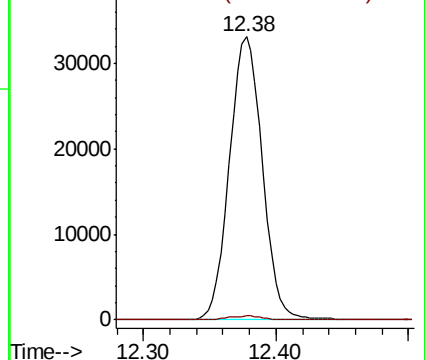
75 100

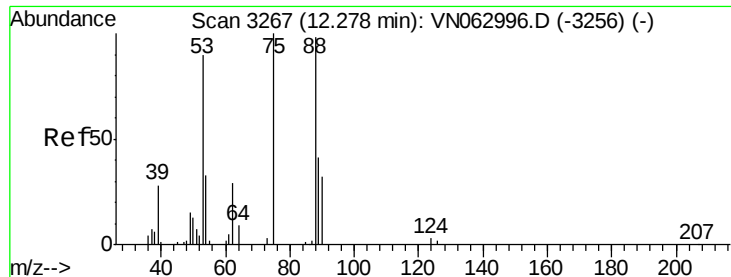
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 69.661 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063137.D

Acq: 26 Aug 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

1498

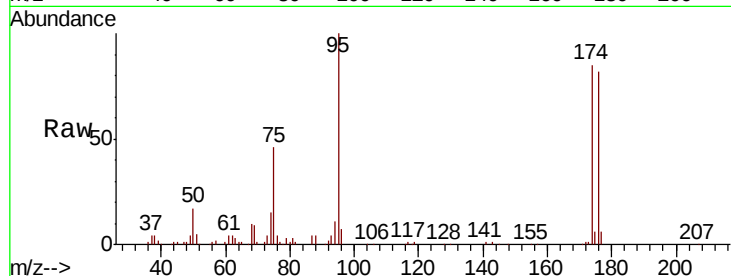
Tot Ion: 75 Resp: 57033

Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

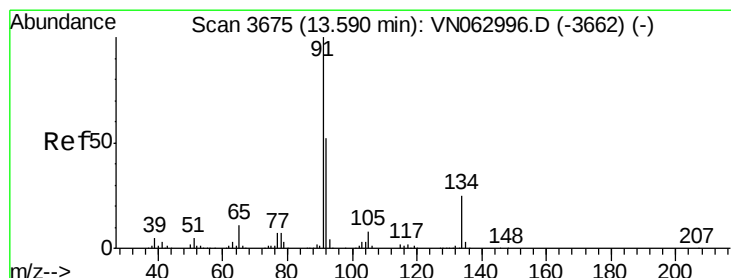
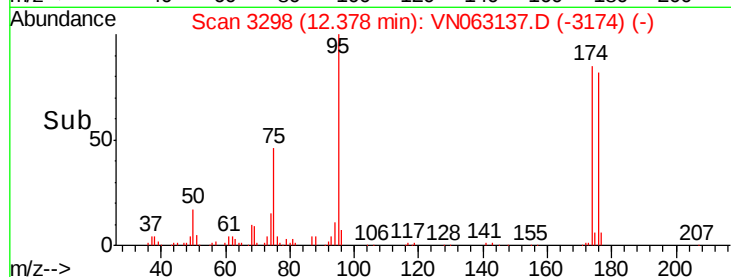
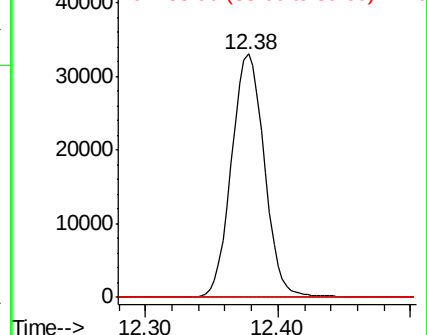
89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#89

n-Butylbenzene

Concen: 2.803 ug/l

RT: 13.59 min Scan# 3676

Delta R.T. 0.00 min

Lab File: VN063137.D

Acq: 26 Aug 2020 16:59

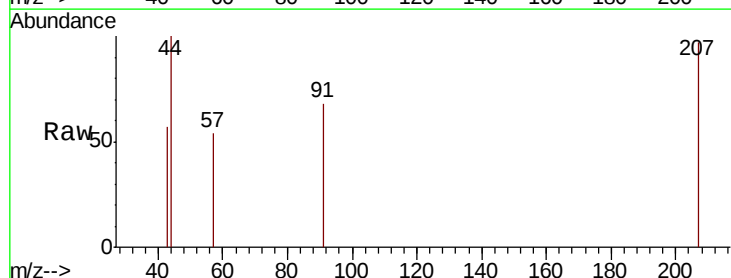
Tgt Ion: 91 Resp: 219

Ion Ratio Lower Upper

91 100

92 0.0 25.9 77.6#

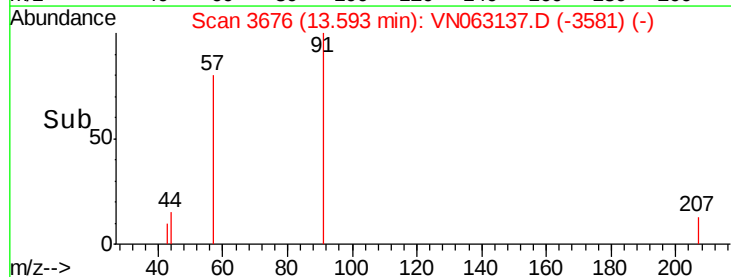
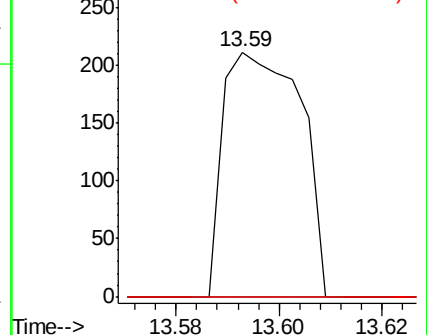
134 0.0 12.4 37.0#

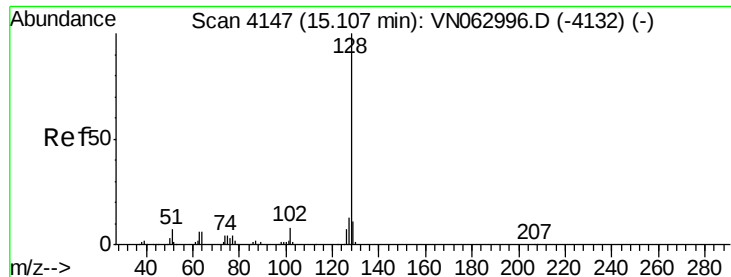


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 5.804 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.00 min

Lab File: VN063137.D

Acq: 26 Aug 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

1498

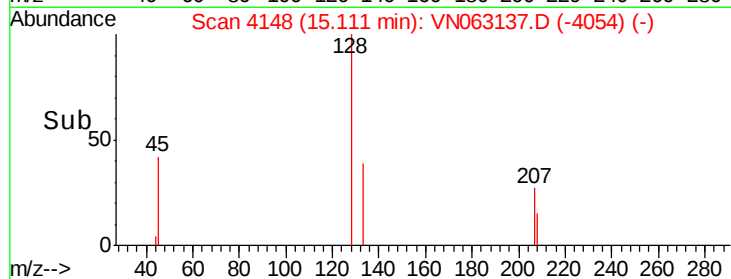
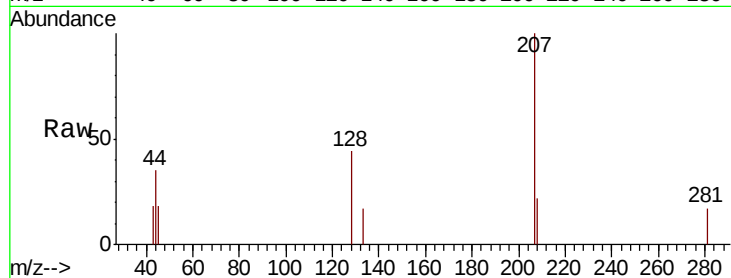
Tot Ion:128 Resp: 843

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

