

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071520\
 Data File : VN062534.D
 Acq On : 15 Jul 2020 14:31
 Operator : JC/MD
 Sample : PB130207ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 16 01:05:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	188069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	332435	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	332271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	121910	50.00	ug/l	0.00

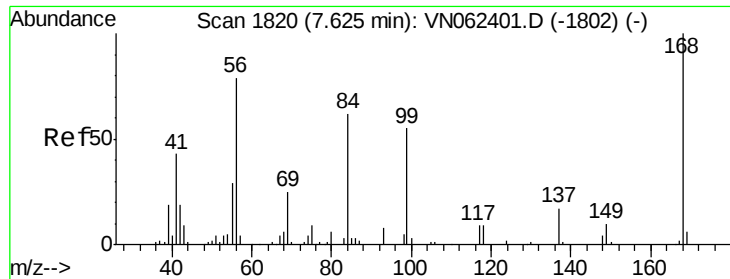
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	142219	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
35) Dibromofluoromethane	7.55	113	105019	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	
50) Toluene-d8	10.06	98	441599	54.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.88%	
62) 4-Bromofluorobenzene	12.38	95	158403	53.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.86%	

Target Compounds

						Qvalue
8) Diethyl Ether	3.38	74	581	0.406	ug/l	94
14) Allyl chloride	4.50	41	1777	0.391	ug/l #	28
16) Acetone	3.78	43	22043	17.948	ug/l	95
18) Methyl Acetate	4.28	43	3033	0.990	ug/l #	66
20) Methylene Chloride	4.50	84	33347	12.699	ug/l	95
25) 2-Butanone	6.80	43	3046	1.698	ug/l	99
29) Tetrahydrofuran	7.18	42	609	0.504	ug/l #	43
31) Cyclohexane	7.63	56	4283	0.975	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16208	4.839	ug/l #	51
38) Carbon Tetrachloride	7.63	117	19343	6.424	ug/l #	15
43) Isopropyl Acetate	8.13	43	79239	12.808	ug/l	94
45) 1,2-Dichloropropane	9.23	63	1527	0.533	ug/l #	44
48) Methyl methacrylate	9.15	41	4411	1.453	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	7698	2.083	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	32138	7.520	ug/l #	61
56) Ethyl methacrylate	10.52	69	1546	2.074	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5675	1.370	ug/l #	43
59) 2-Hexanone	10.74	43	87308	32.546	ug/l #	54
71) Bromoform	12.38	173	1069	0.612	ug/l #	1
74) N-amyl acetate	12.00	43	2159	0.470	ug/l #	48
76) 1,2,3-Trichloropropane	12.37	75	84154	28.133	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6950	0.899	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.37	75	84154	75.301	ug/l #	10
95) Naphthalene	15.11	128	562	Below Cal	#	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062534.D

Acq: 15 Jul 2020 14:31

Instrument :

MSVOA_N

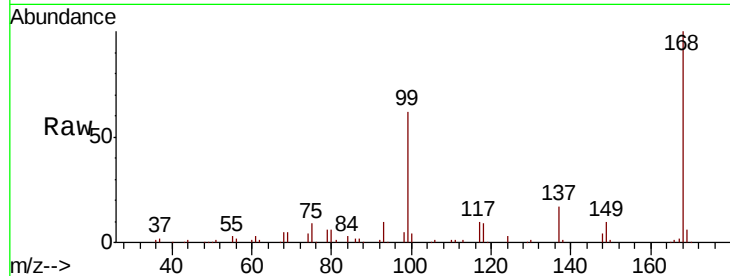
ClientSampled :

Tot Ion:168 Resp: 188069

Ion Ratio Lower Upper

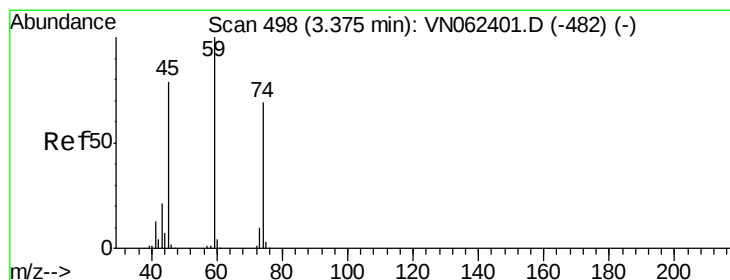
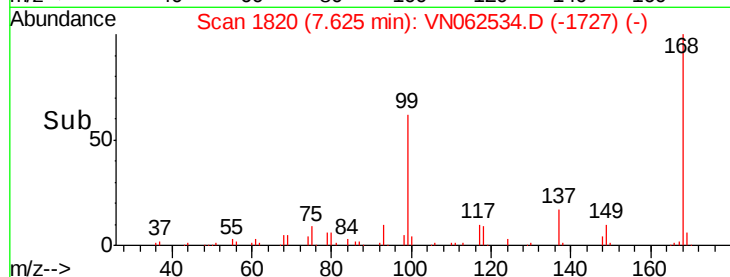
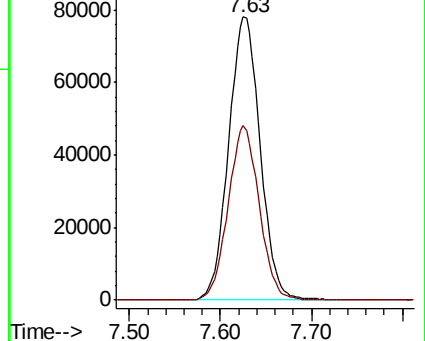
168 100

99 61.5 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#8

Diethyl Ether

Concen: 0.406 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.00 min

Lab File: VN062534.D

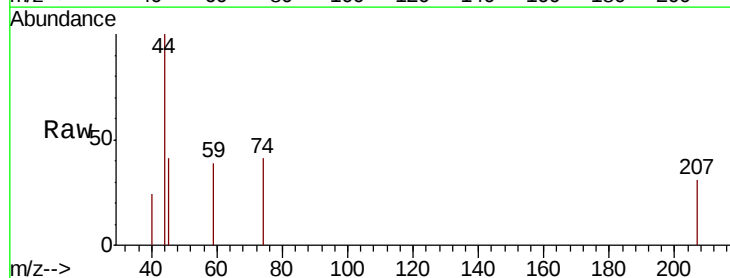
Acq: 15 Jul 2020 14:31

Tgt Ion: 74 Resp: 581

Ion Ratio Lower Upper

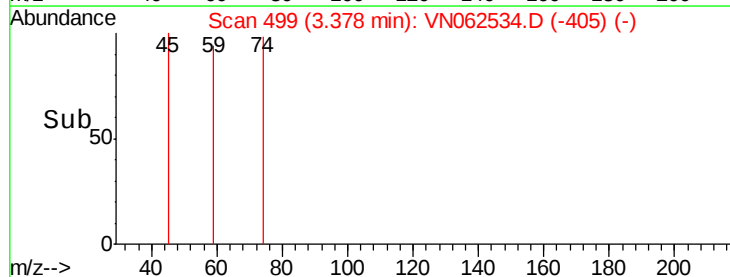
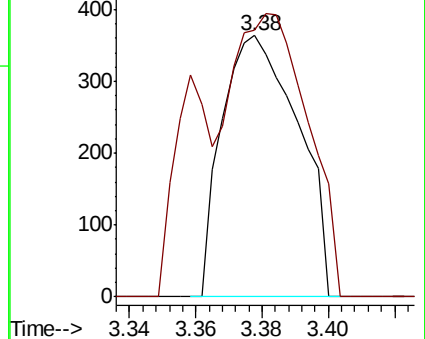
74 100

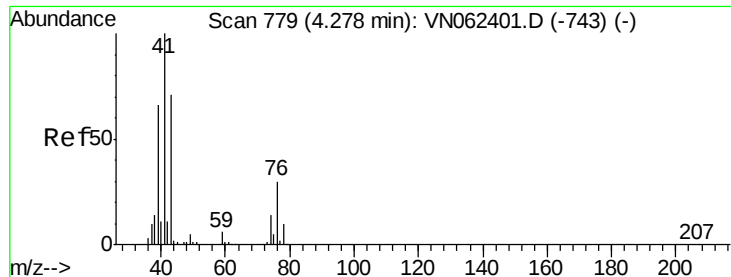
45 110.7 58.5 175.3



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

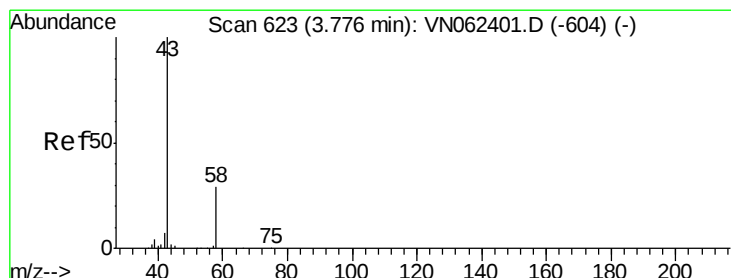
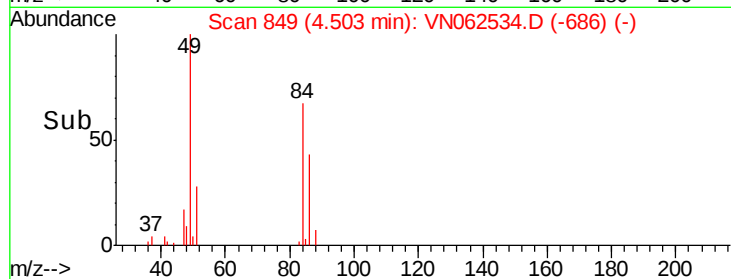
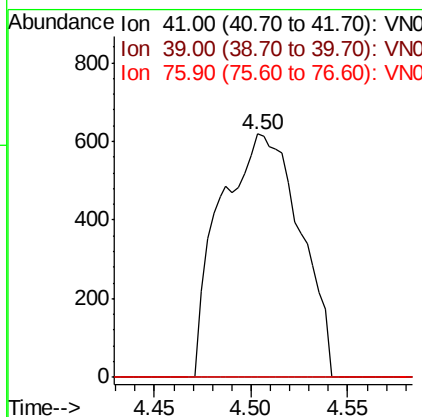
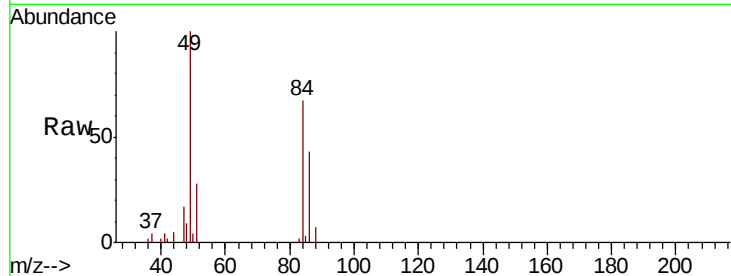




#14
Allvl chloride
Concen: 0.391 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.23 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

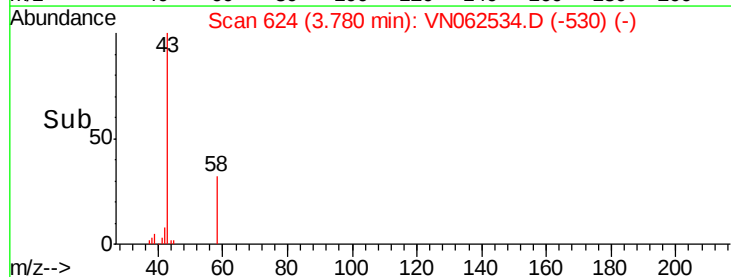
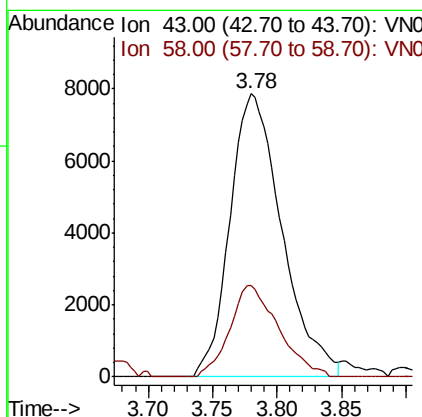
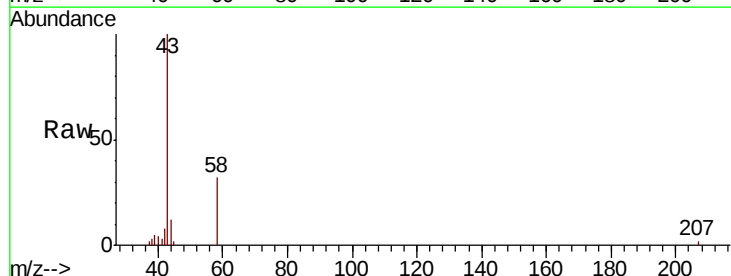
Instrument :
MSVOA_N
ClientSampled :

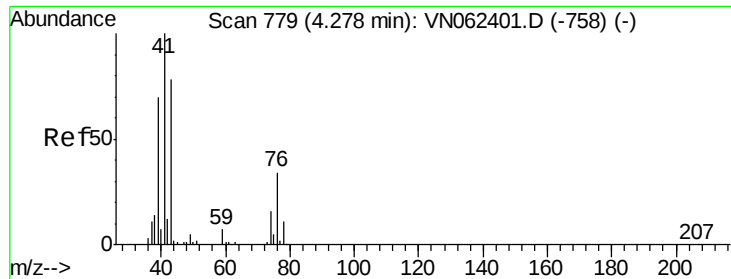
Tot Ion: 41 Resp: 1777
Ion Ratio Lower Upper
41 100
39 0.0 49.6 74.4#
76 0.0 22.2 33.4#



#16
Acetone
Concen: 17.948 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.00 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion: 43 Resp: 22043
Ion Ratio Lower Upper
43 100
58 32.3 23.5 35.3

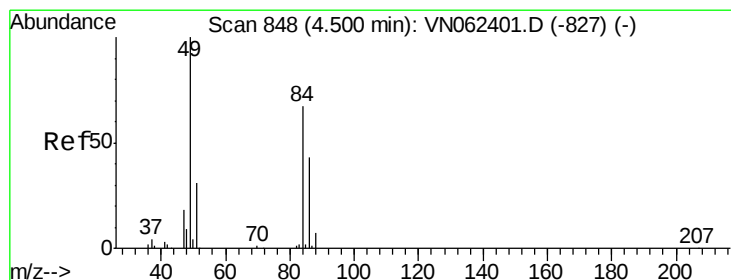
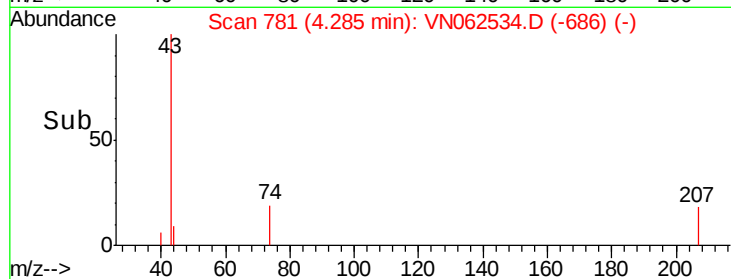
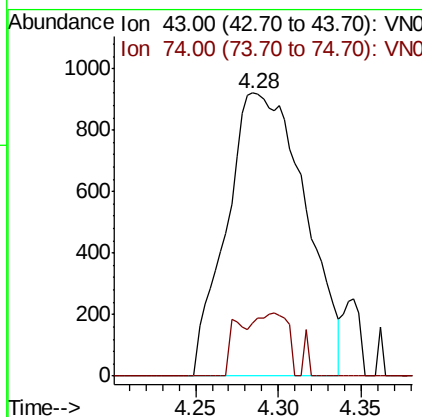
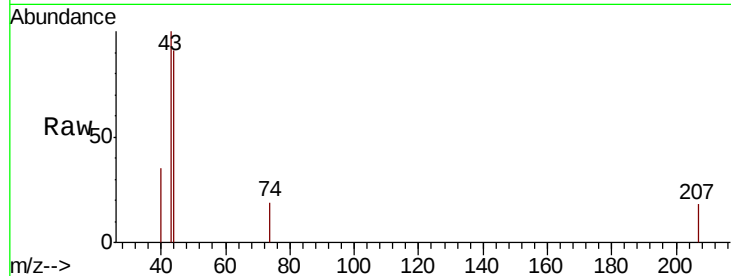




#18
Methyl Acetate
Concen: 0.990 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

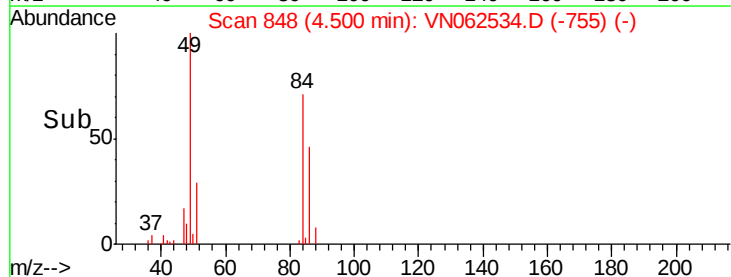
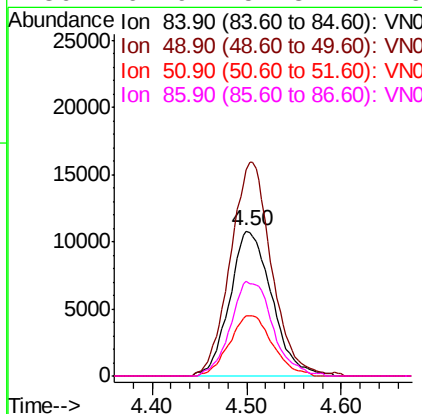
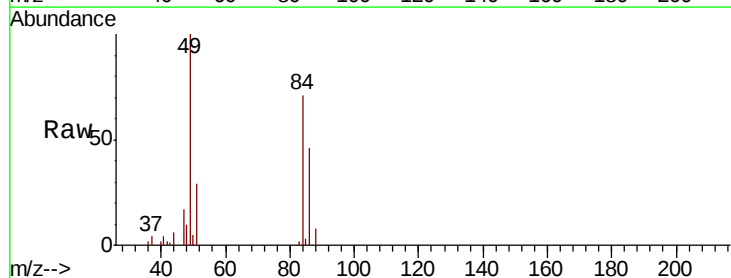
Instrument :
MSVOA_N
ClientSampled :

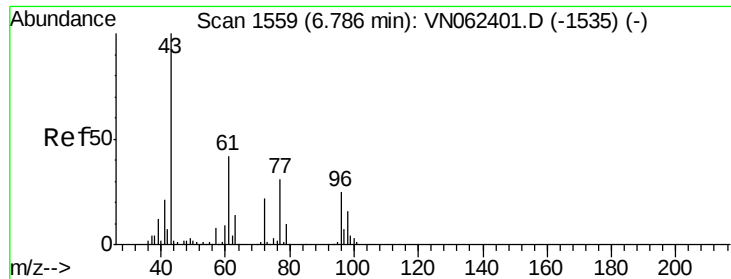
Tot Ion: 43 Resp: 3033
Ion Ratio Lower Upper
43 100
74 4.3 16.0 24.0#



#20
Methylene Chloride
Concen: 12.699 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion: 84 Resp: 33347
Ion Ratio Lower Upper
84 100
49 141.5 120.0 180.0
51 41.3 37.0 55.6
86 64.9 51.8 77.6

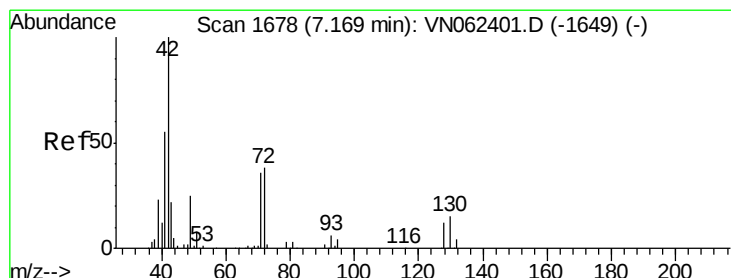
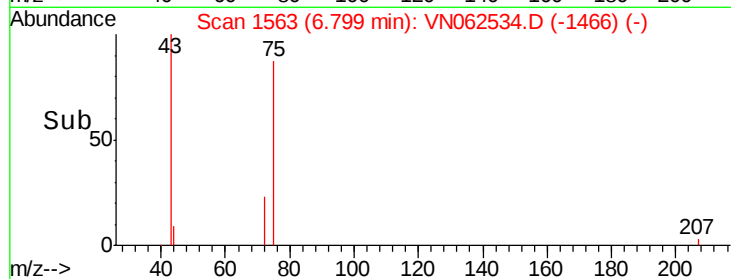
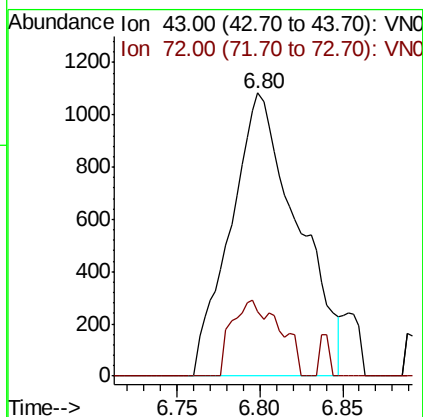
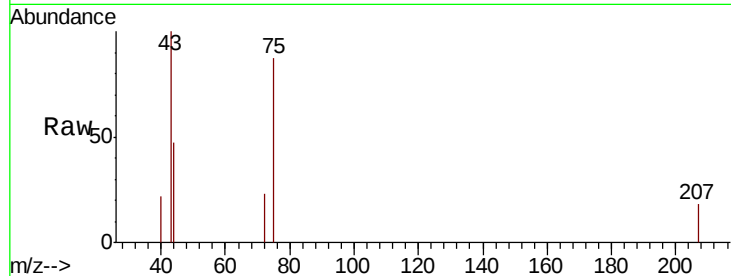




#25
2-Butanone
Concen: 1.698 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

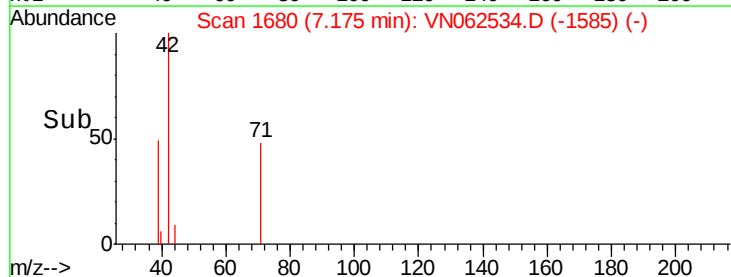
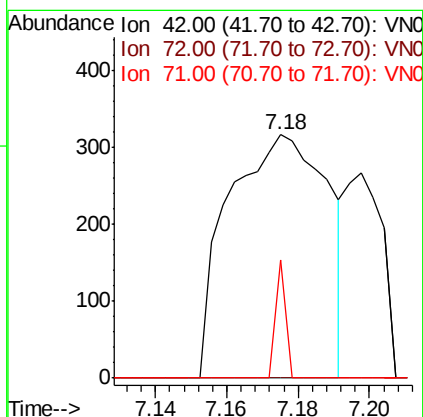
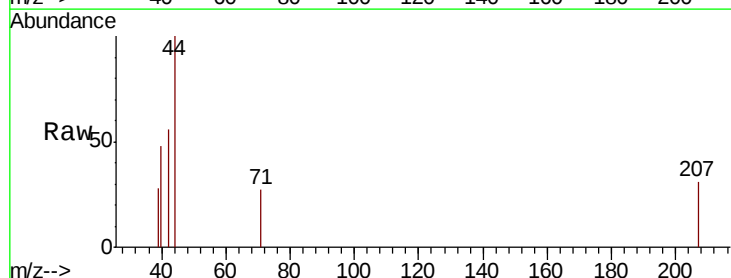
Instrument :
MSVOA_N
ClientSampleId :

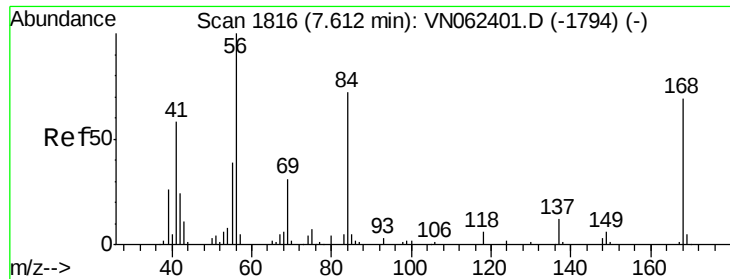
Tot Ion: 43 Resp: 3046
Ion Ratio Lower Upper
43 100
72 22.7 17.9 26.9



#29
Tetrahydrofuran
Concen: 0.504 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion: 42 Resp: 609
Ion Ratio Lower Upper
42 100
72 0.0 29.1 43.7#
71 4.8 28.1 42.1#

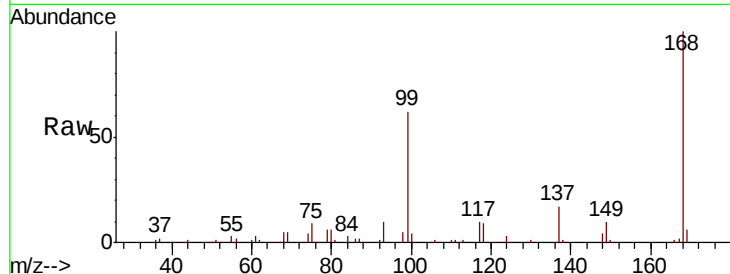




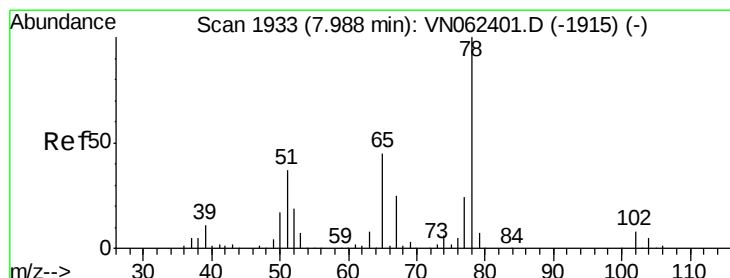
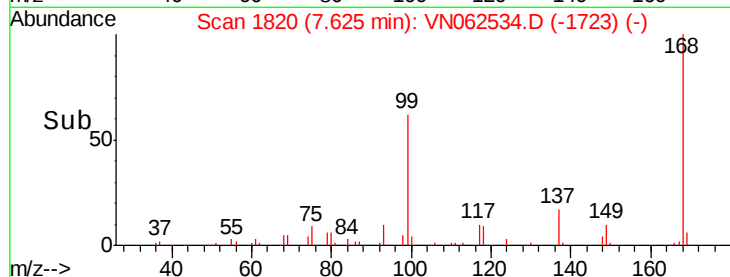
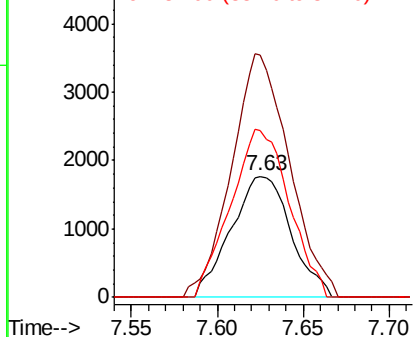
#31
Cyclohexane
Concen: 0.975 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4283
Ion Ratio Lower Upper
56 100
69 200.5 24.5 36.7#
84 137.5 57.4 86.2#

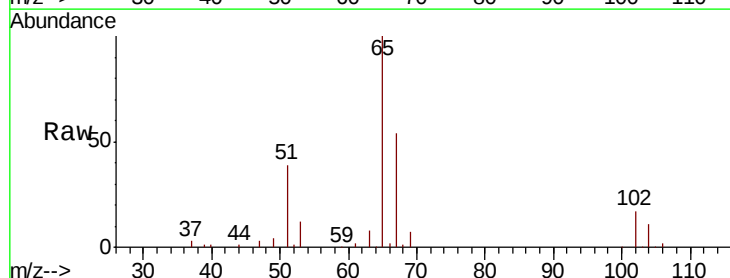


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

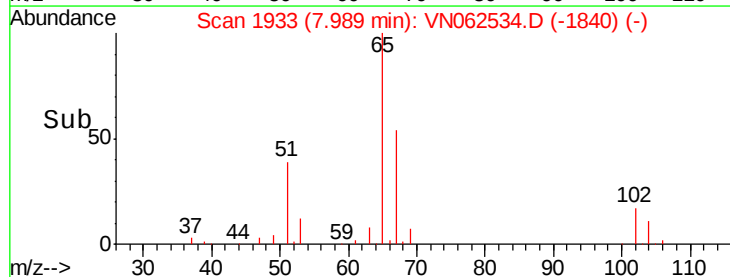
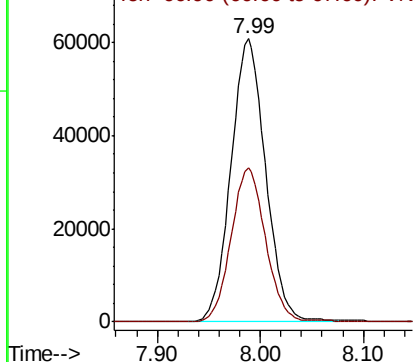


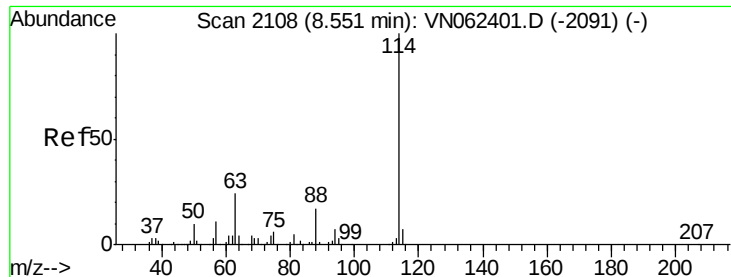
#33
1,2-Dichloroethane-d4
Concen: 49.164 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion: 65 Resp: 142219
Ion Ratio Lower Upper
65 100
67 54.0 0.0 107.6



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

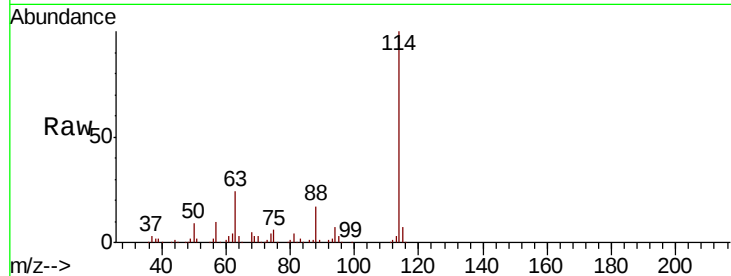




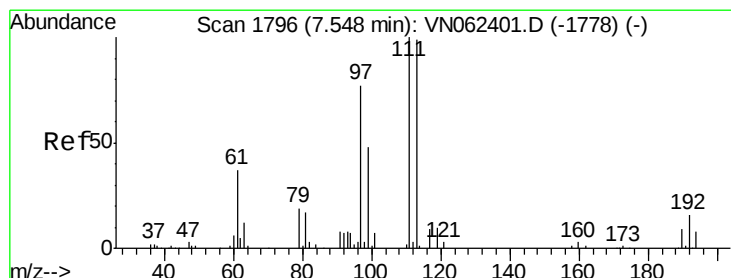
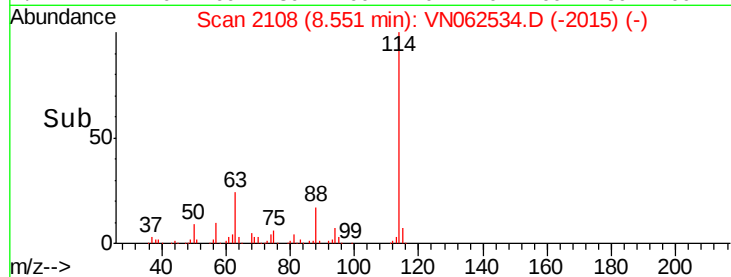
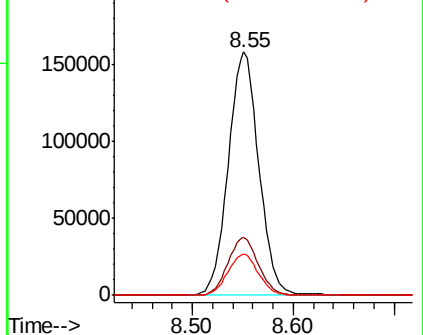
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062534.D
 Acq: 15 Jul 2020 14:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	48.4
88	17.1	0.0	33.8

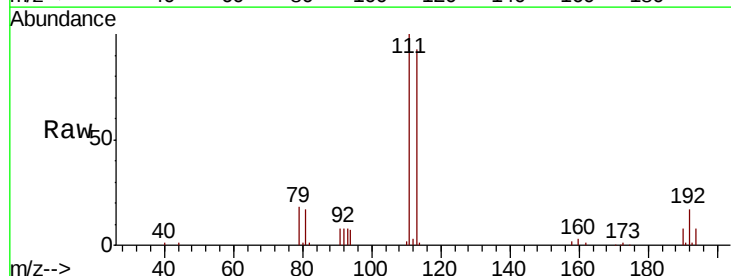


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

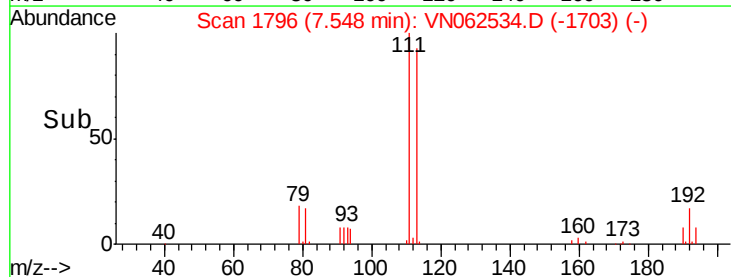
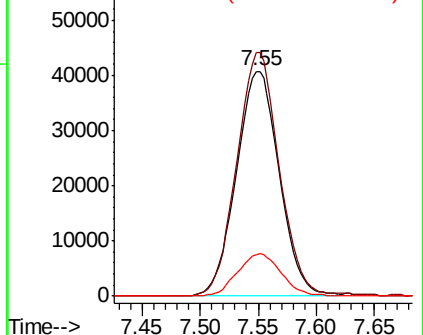


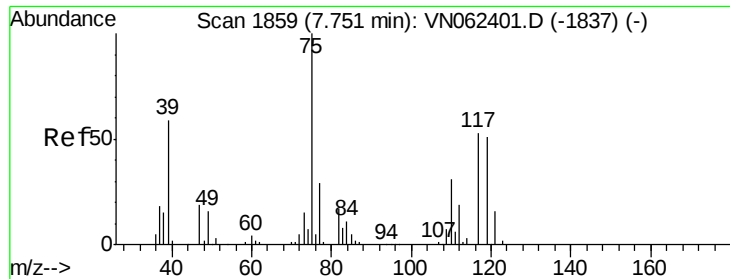
#35
 Dibromofluoromethane
 Concen: 51.107 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062534.D
 Acq: 15 Jul 2020 14:31

Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.3	83.1	124.7
192	19.1	14.1	21.1



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

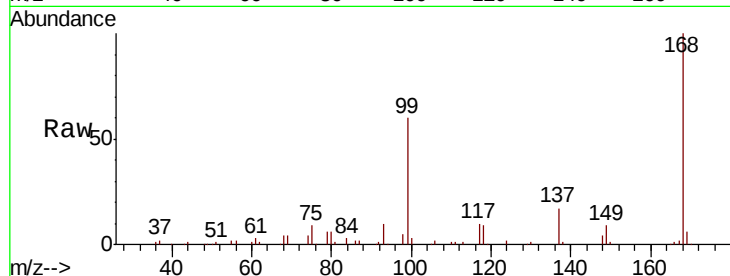




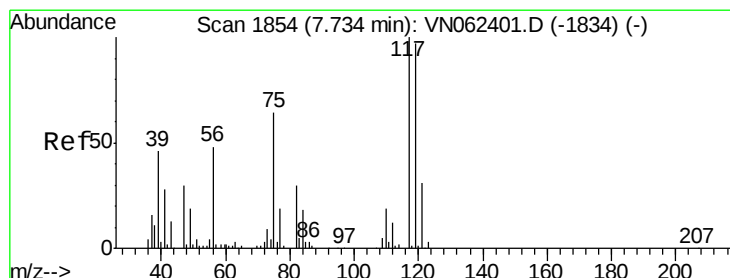
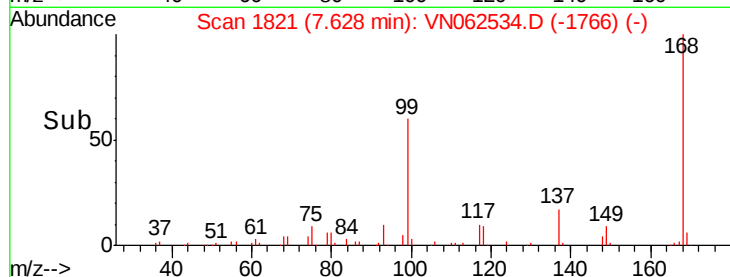
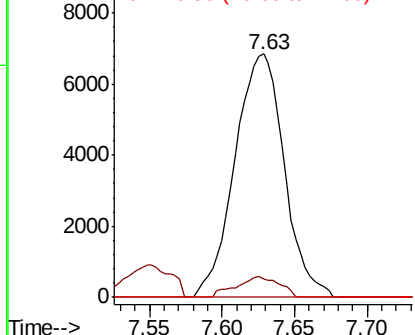
#36
 1,1-Dichloropropene
 Concen: 4.839 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062534.D
 Acq: 15 Jul 2020 14:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 16208
 Ion Ratio Lower Upper
 75 100
 110 7.5 15.4 46.2#
 77 0.0 24.1 36.1#

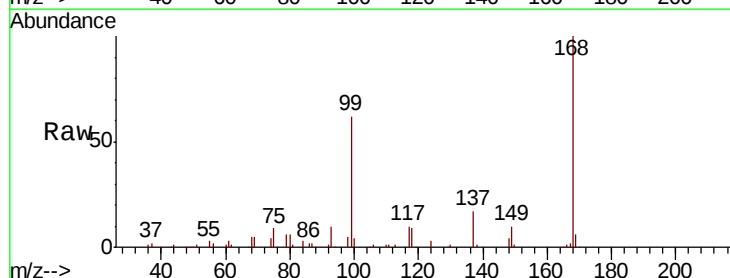


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

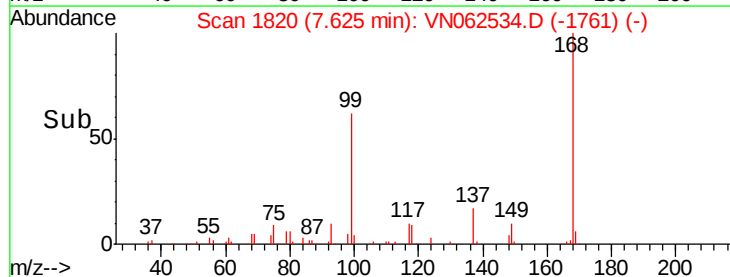
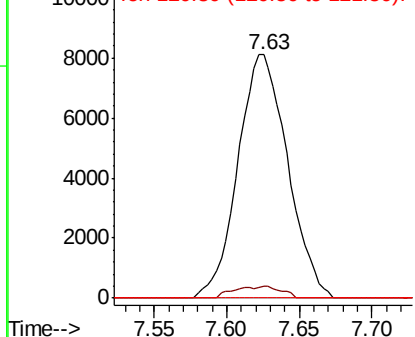


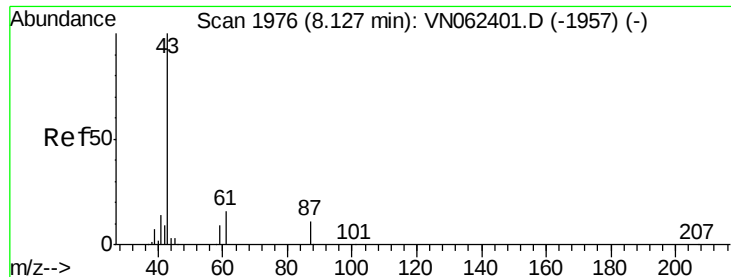
#38
 Carbon Tetrachloride
 Concen: 6.424 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062534.D
 Acq: 15 Jul 2020 14:31

Tgt Ion: 117 Resp: 19343
 Ion Ratio Lower Upper
 117 100
 119 4.7 77.2 115.8#
 121 0.0 24.8 37.2#



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: 12.808 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062534.D

Acq: 15 Jul 2020 14:31

Instrument :

MSVOA_N

ClientSampleId :

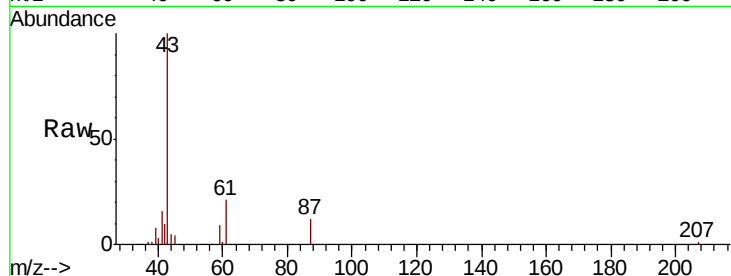
Tot Ion: 43 Resp: 79239

Ion Ratio Lower Upper

43 100

61 19.9 19.3 28.9

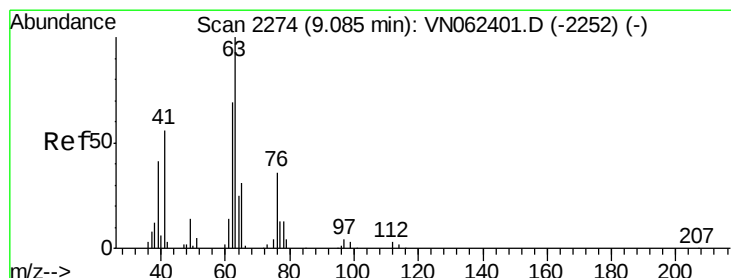
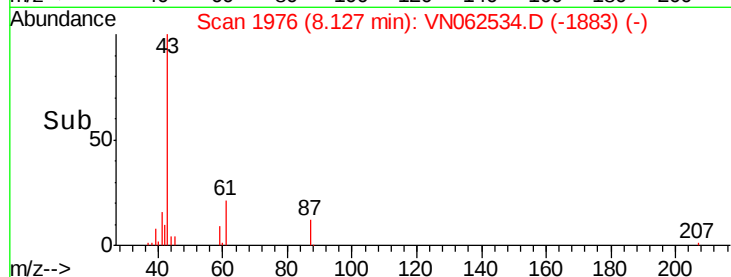
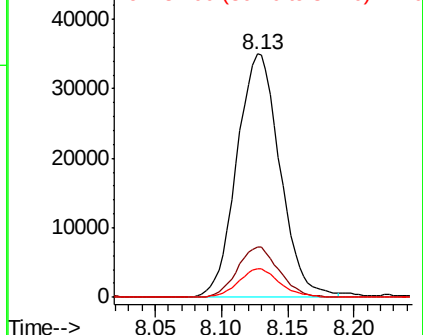
87 11.2 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VN062534.D (-1957) (-)

Ion 61.00 (60.70 to 61.70): VN062534.D (-1957) (-)

Ion 87.00 (86.70 to 87.70): VN062534.D (-1957) (-)



#45

1,2-Dichloropropane

Concen: 0.533 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN062534.D

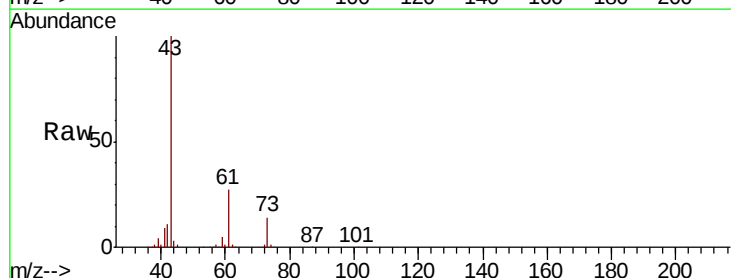
Acq: 15 Jul 2020 14:31

Tgt Ion: 63 Resp: 1527

Ion Ratio Lower Upper

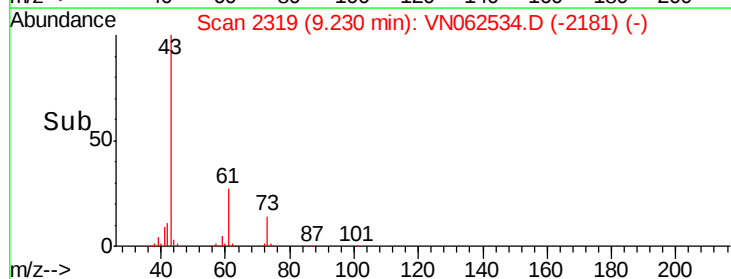
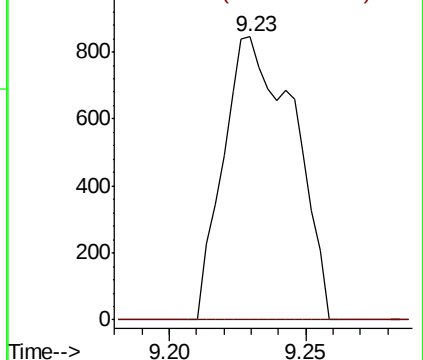
63 100

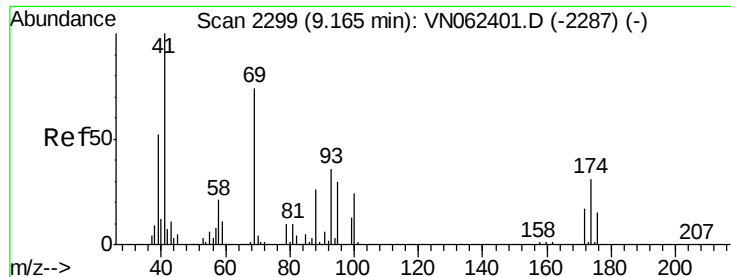
65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN062534.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062534.D (-2181) (-)

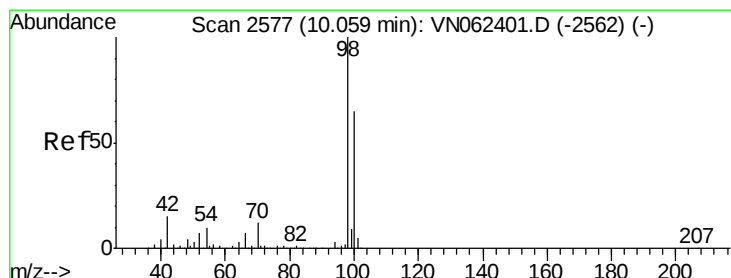
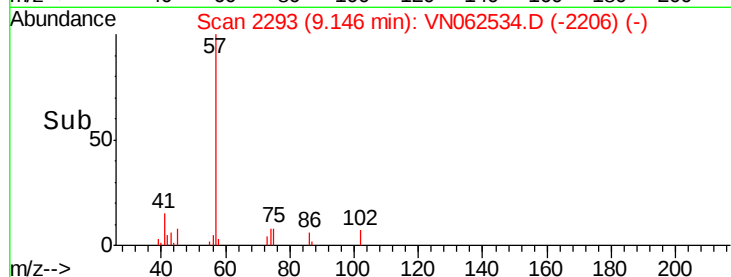
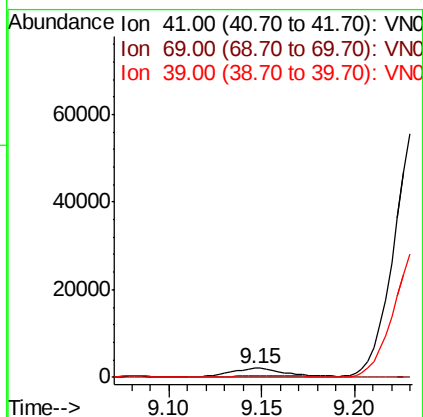
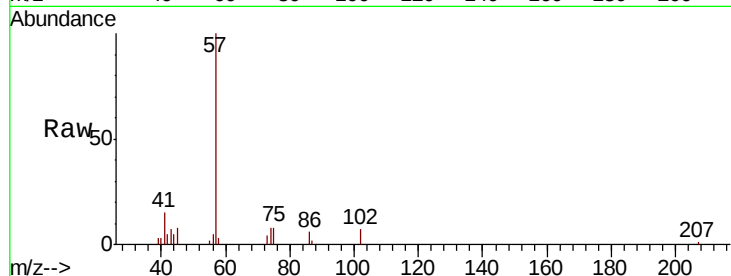




#48
Methvl methacrylate
Concen: 1.453 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

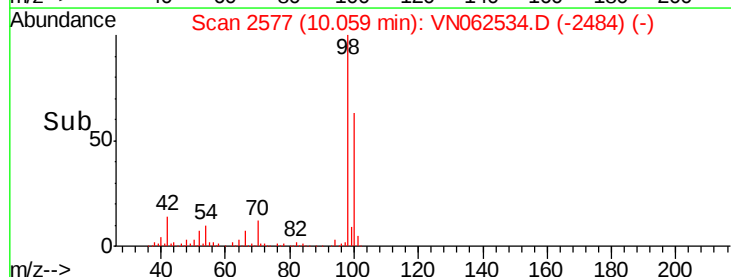
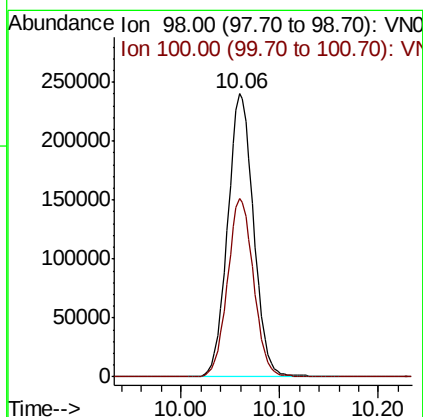
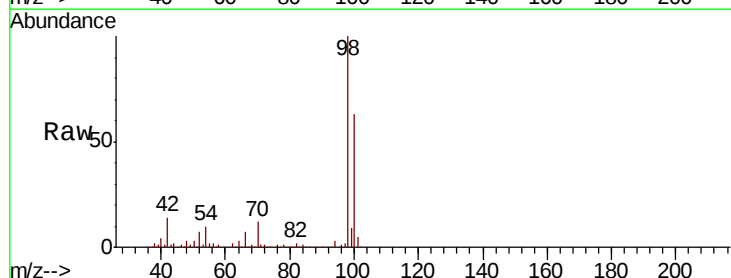
Instrument :
MSVOA_N
ClientSampleId :

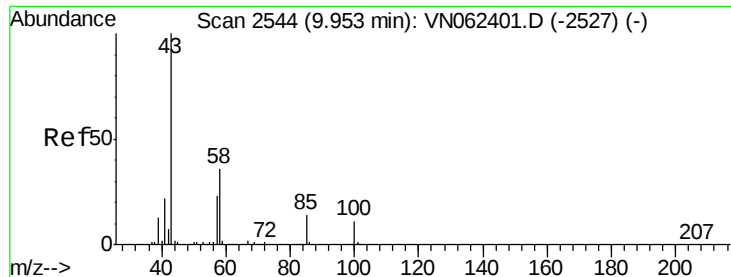
Tot Ion: 41 Resp: 4411
Ion Ratio Lower Upper
41 100
69 0.0 60.8 91.2#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 54.437 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion: 98 Resp: 441599
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 2.083 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062534.D

Acq: 15 Jul 2020 14:31

Instrument :

MSVOA_N

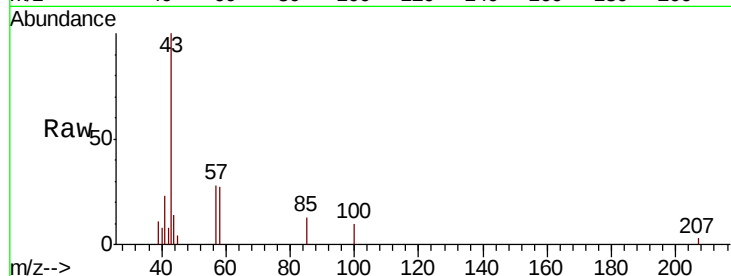
ClientSampled :

Tot Ion: 43 Resp: 7698

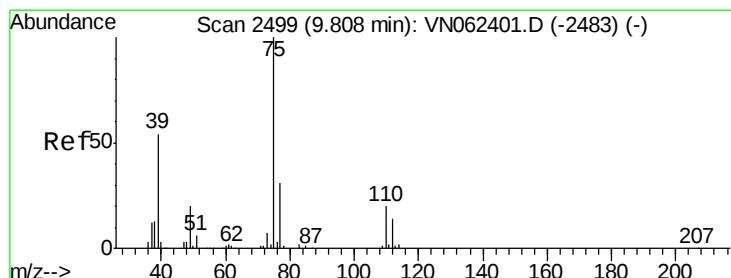
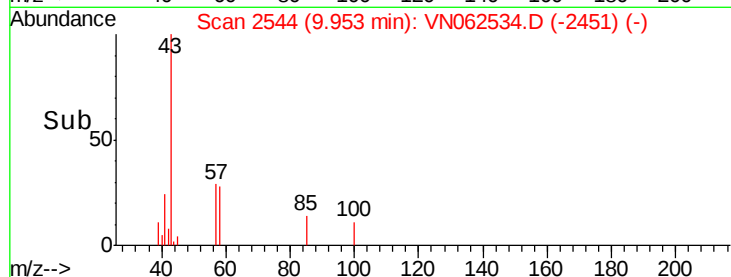
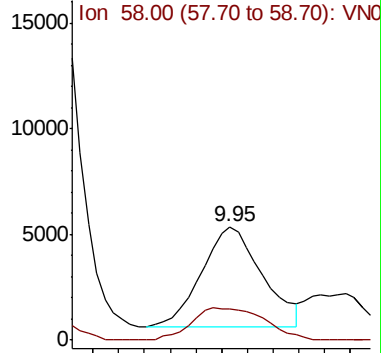
Ion Ratio Lower Upper

43 100

58 39.2 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN062534.D (-2451) (-)



#54

cis-1,3-Dichloropropene

Concen: 7.520 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062534.D

Acq: 15 Jul 2020 14:31

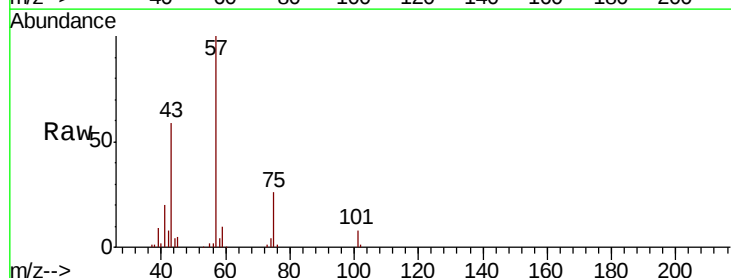
Tgt Ion: 75 Resp: 32138

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

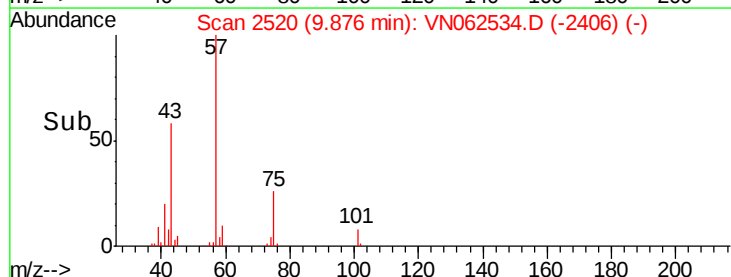
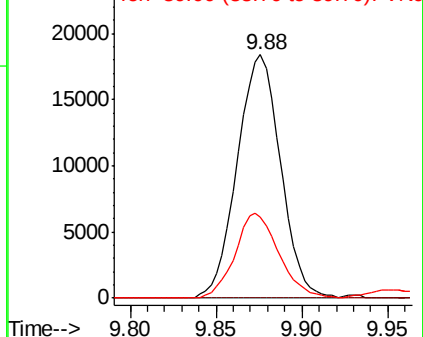
39 33.2 43.4 65.0#

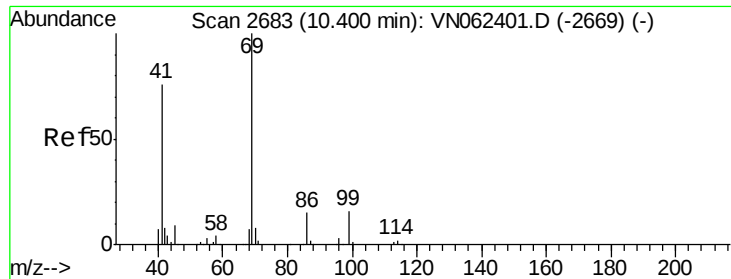


Abundance Ion 74.90 (74.60 to 75.60): VN062534.D (-2406) (-)

Ion 76.90 (76.60 to 77.60): VN062534.D (-2406) (-)

Ion 39.00 (38.70 to 39.70): VN062534.D (-2406) (-)





#56

Ethyl methacrylate

Concen: 2.074 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062534.D

Acq: 15 Jul 2020 14:31

Instrument :

MSVOA_N

ClientSampled :

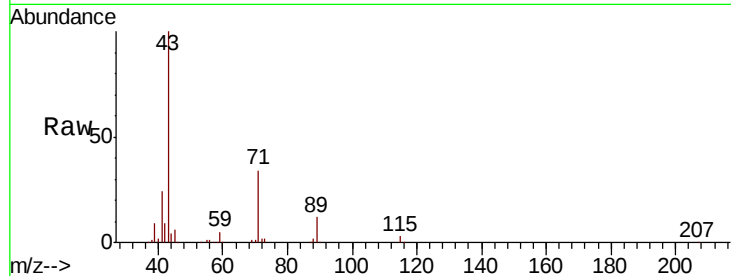
Tot Ion: 69 Resp: 1546

Ion Ratio Lower Upper

69 100

41 4778.9 59.7 89.5#

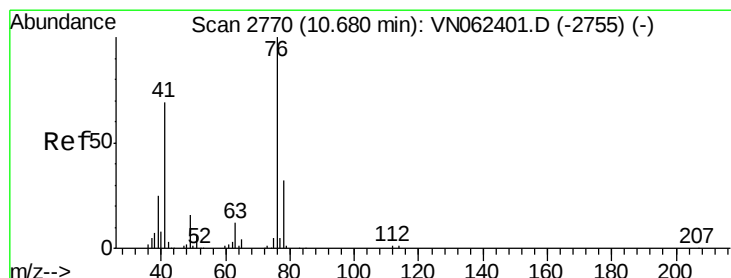
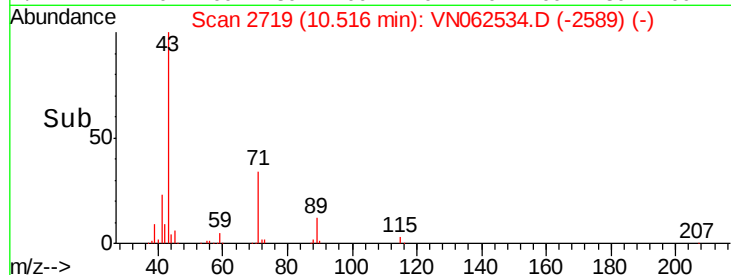
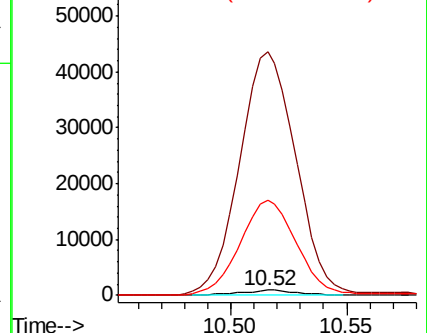
39 1880.9 30.6 45.8#



Abundance Ion 69.00 (68.70 to 69.70): VN062534.D (-2719) (-)

Ion 41.00 (40.70 to 41.70): VN062534.D (-2719) (-)

Ion 39.00 (38.70 to 39.70): VN062534.D (-2719) (-)



#57

1,3-Dichloropropane

Concen: 1.370 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062534.D

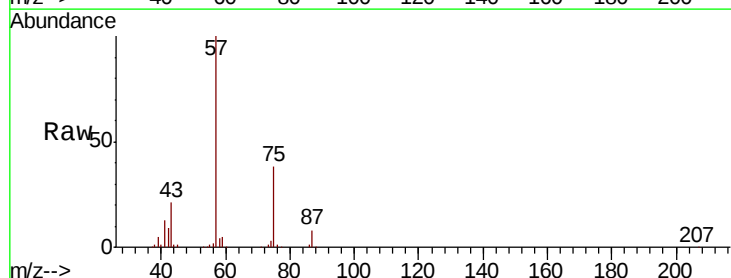
Acq: 15 Jul 2020 14:31

Tgt Ion: 76 Resp: 5675

Ion Ratio Lower Upper

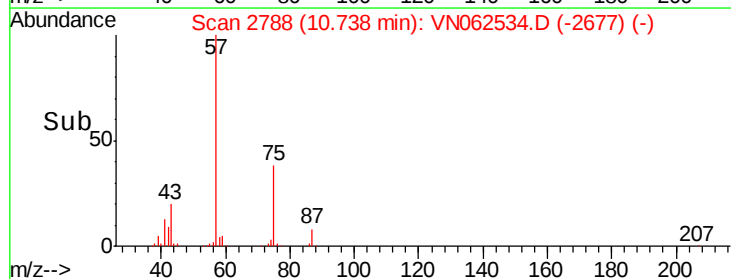
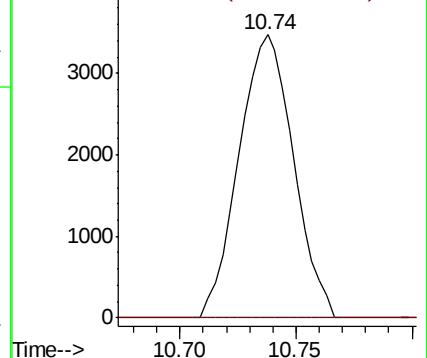
76 100

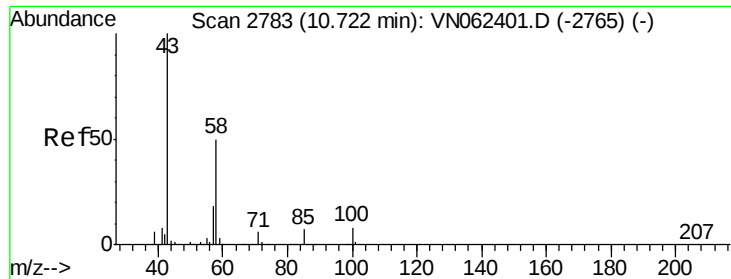
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN062534.D (-2788) (-)

Ion 77.90 (77.60 to 78.60): VN062534.D (-2788) (-)

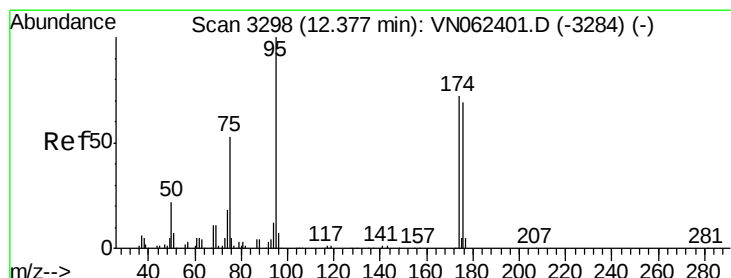
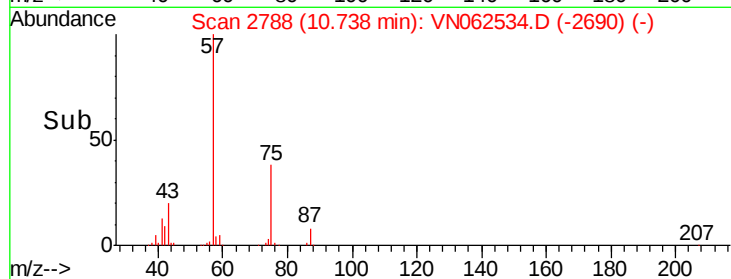
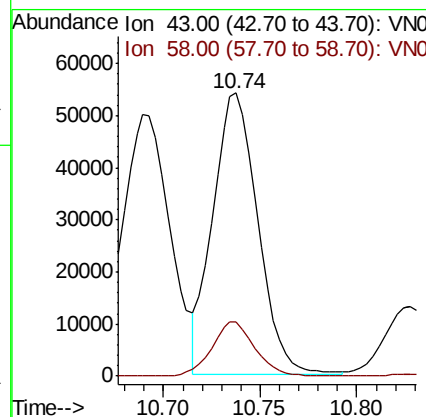
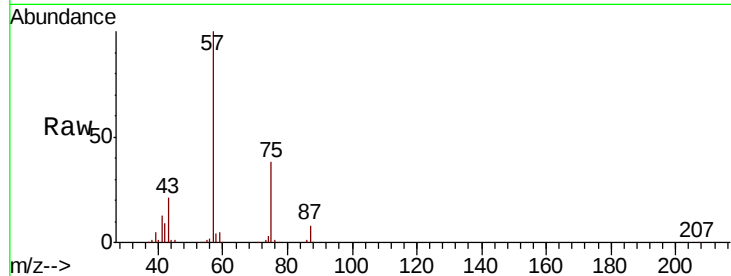




#59
2-Hexanone
Concen: 32.546 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

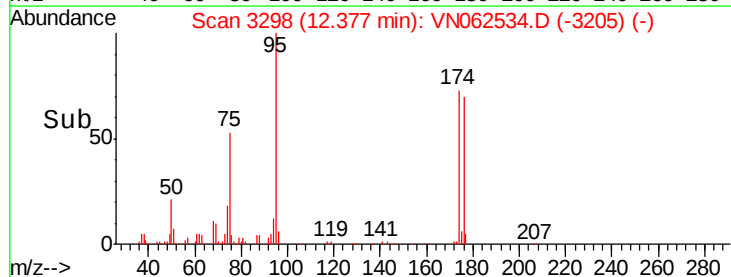
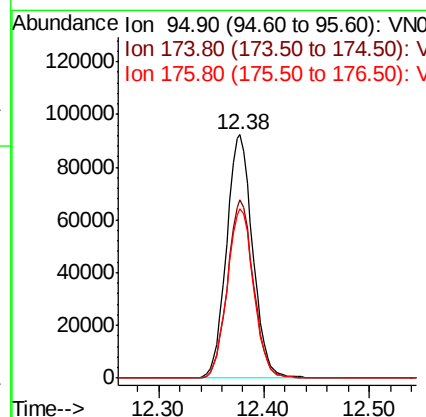
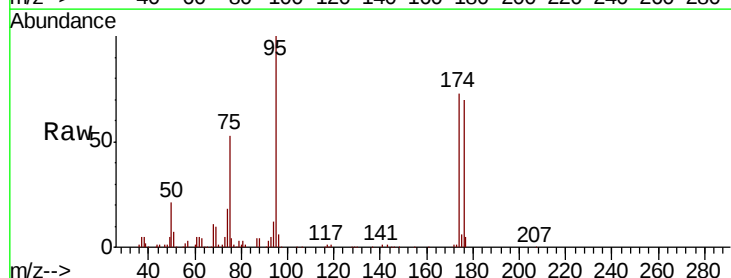
Instrument :
MSVOA_N
ClientSampled :

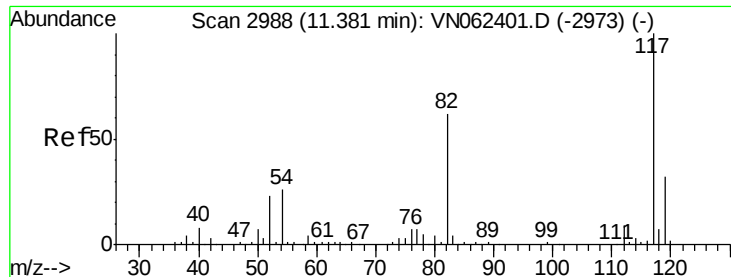
Tot Ion: 43 Resp: 87308
Ion Ratio Lower Upper
43 100
58 18.5 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 53.435 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion: 95 Resp: 158403
Ion Ratio Lower Upper
95 100
174 72.7 0.0 141.6
176 70.1 0.0 137.2

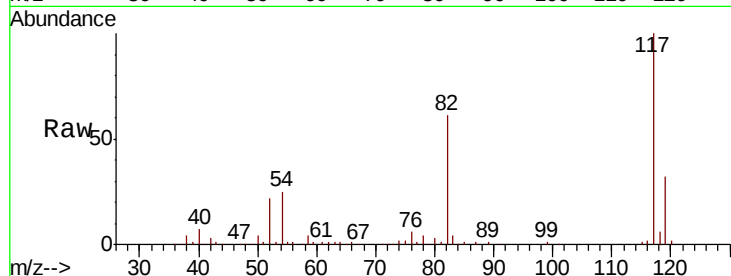




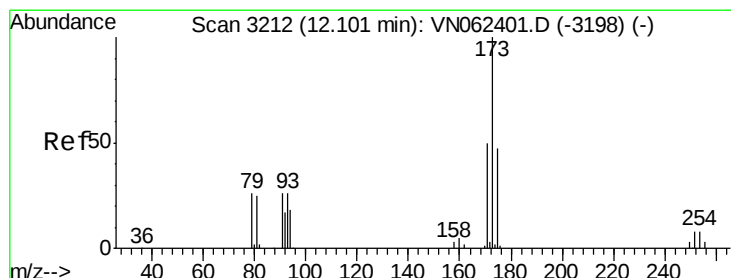
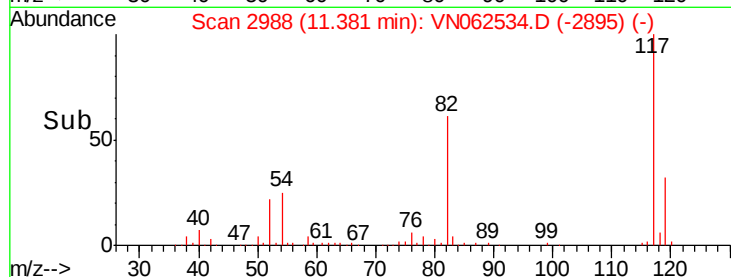
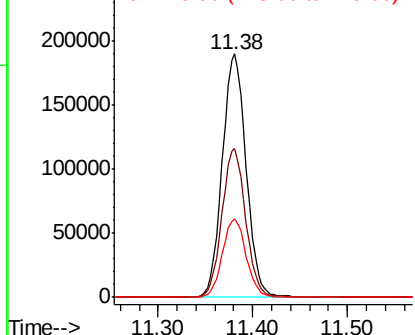
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 332271
Ion Ratio Lower Upper
117 100
82 60.9 49.6 74.4
119 32.0 25.4 38.0

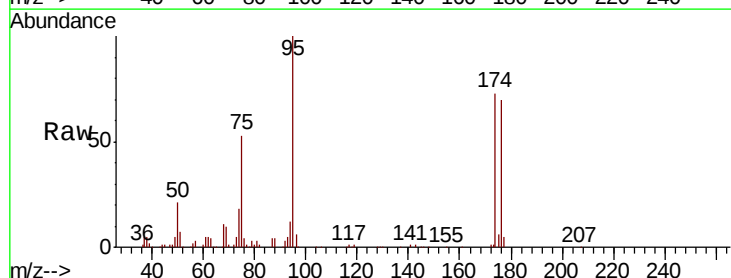


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

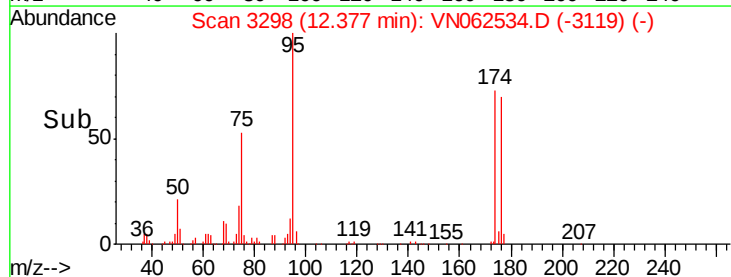
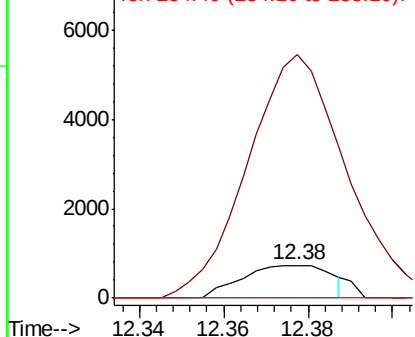


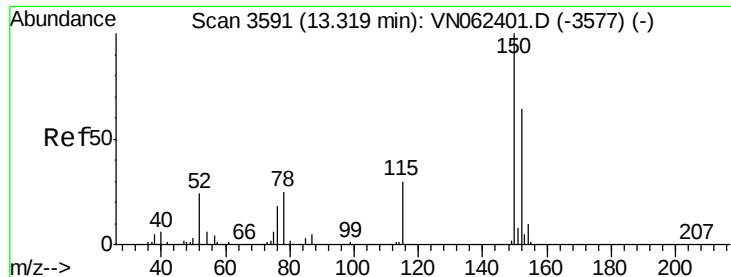
#71
Bromoform
Concen: 0.612 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion:173 Resp: 1069
Ion Ratio Lower Upper
173 100
175 692.8 23.7 71.1#
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: VN062534.D

Acq: 15 Jul 2020 14:31

Instrument :

MSVOA_N

ClientSampleId :

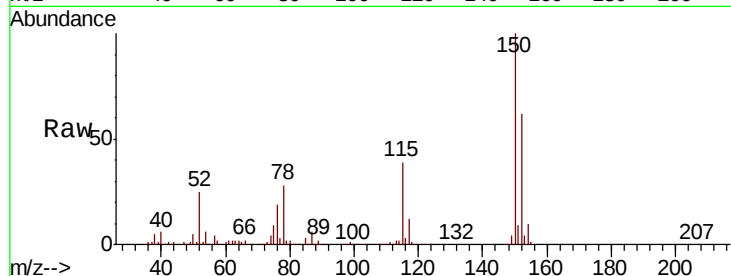
Tot Ion:152 Resp: 121910

Ion Ratio Lower Upper

152 100

115 62.2 31.4 94.2

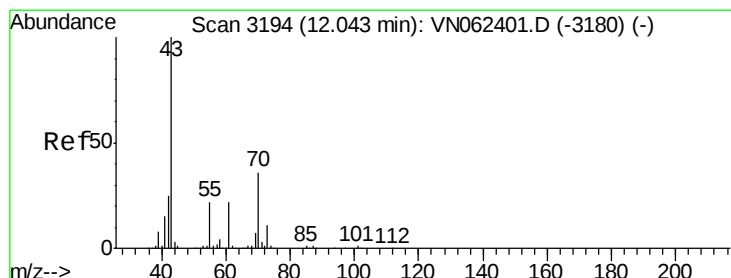
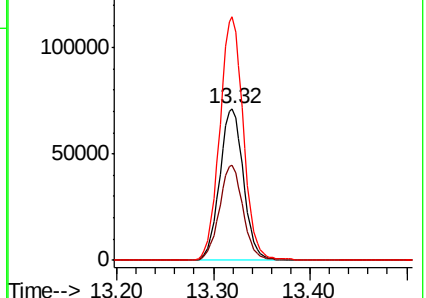
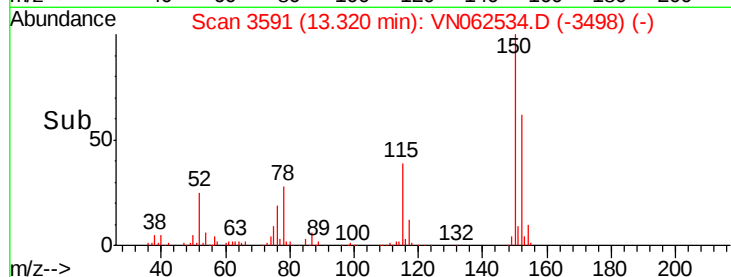
150 158.8 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.470 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062534.D

Acq: 15 Jul 2020 14:31

Tgt Ion: 43 Resp: 2159

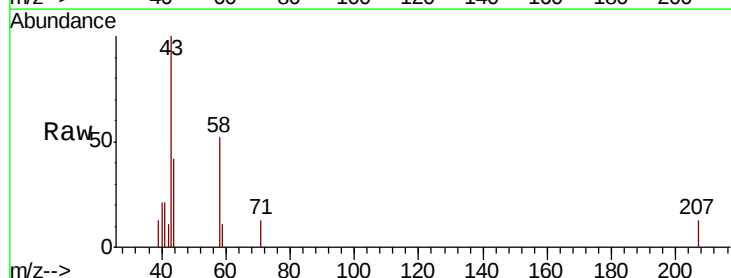
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 4.1 18.2 27.4#

61 0.0 17.7 26.5#

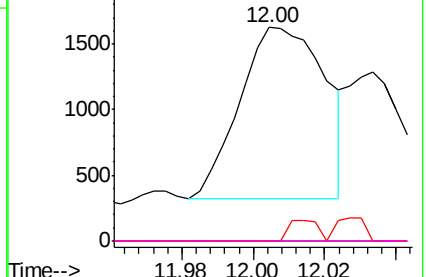
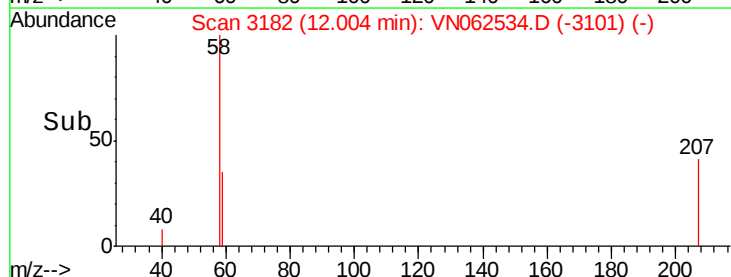


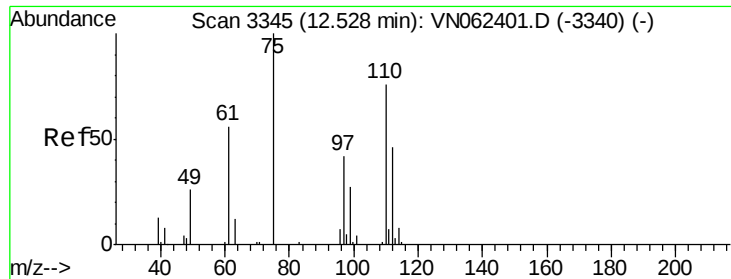
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

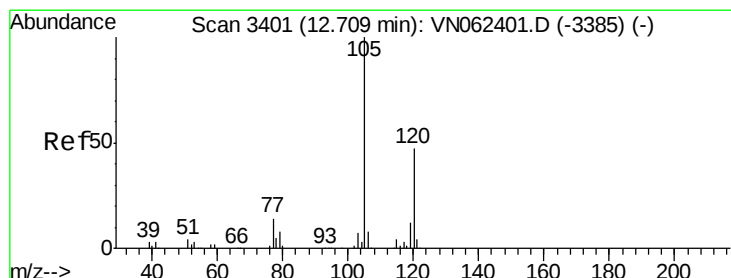
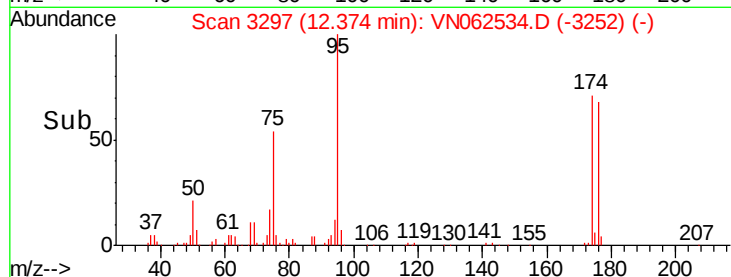
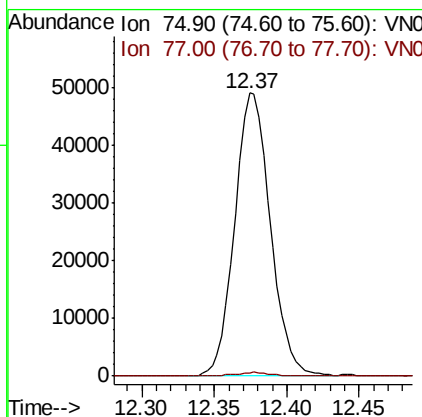
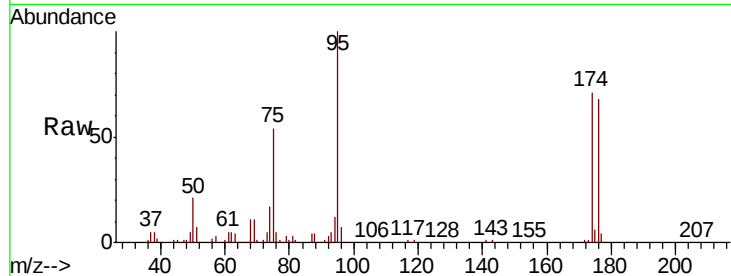




#76
 1,2,3-Trichloropropane
 Concen: 28.133 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. -0.15 min
 Lab File: VN062534.D
 Acq: 15 Jul 2020 14:31

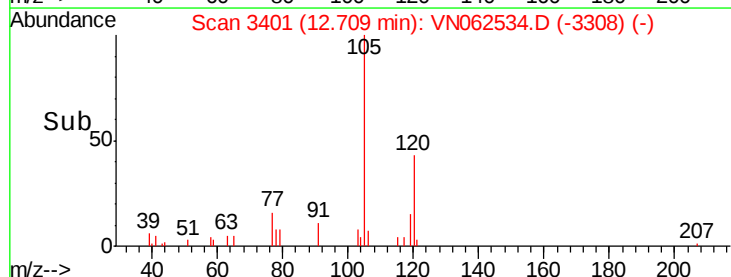
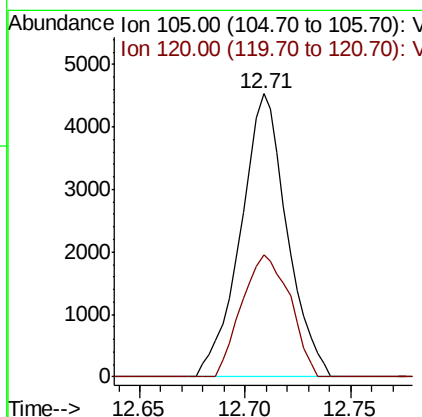
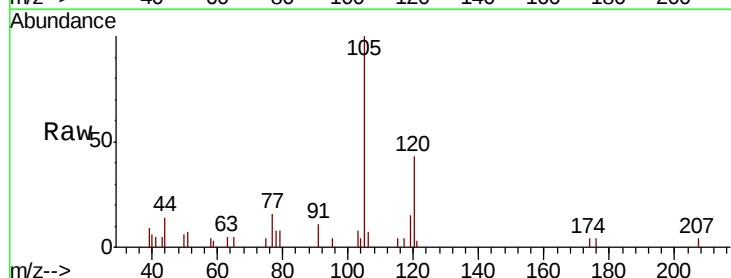
Instrument :
 MSVOA_N
 ClientSampleId :

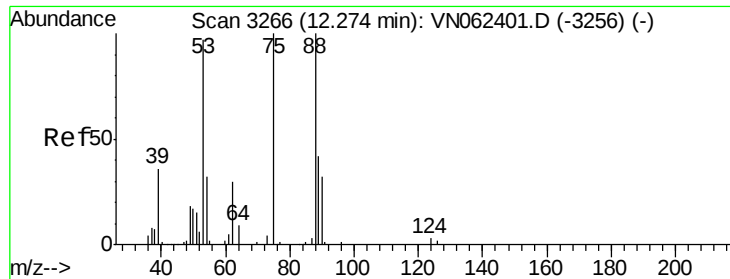
Tot Ion: 75 Resp: 84154
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.899 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN062534.D
 Acq: 15 Jul 2020 14:31

Tgt Ion: 105 Resp: 6950
 Ion Ratio Lower Upper
 105 100
 120 44.6 23.4 70.2

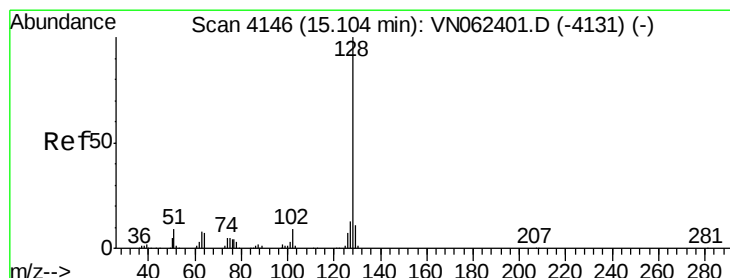
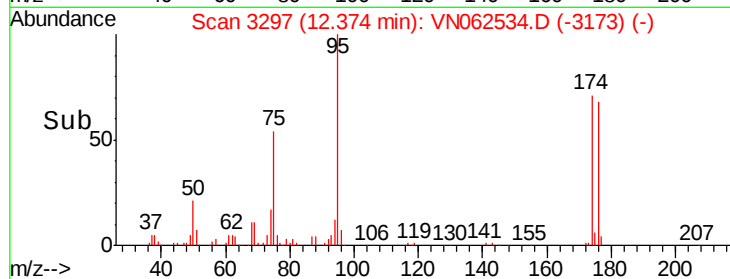
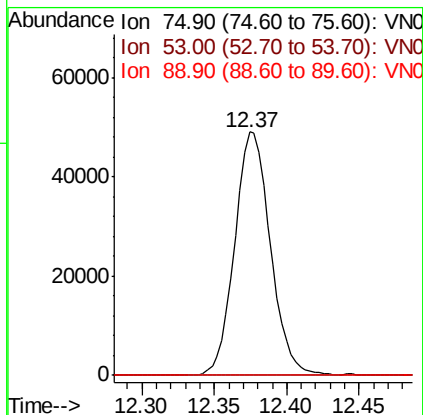
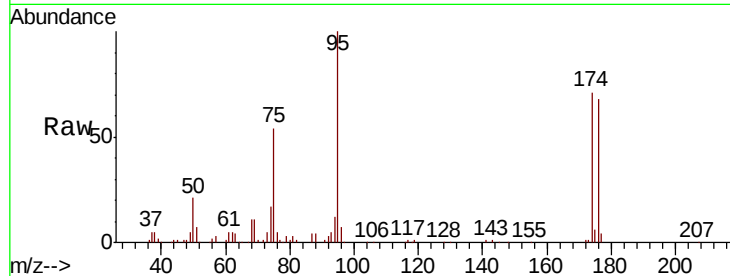




#81
trans-1,4-Dichloro-2-butene
Concen: 75.301 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.10 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 84154
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 34.6 52.0#



#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062534.D
Acq: 15 Jul 2020 14:31

Tgt Ion: 128 Resp: 562
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 12.8#

