

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071520\
 Data File : VN062538.D
 Acq On : 15 Jul 2020 16:08
 Operator : JC/MD
 Sample : L3187-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 16 01:06:39 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	190565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	348935	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	341608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	124252	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	146083	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
35) Dibromofluoromethane	7.55	113	109399	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	10.06	98	454039	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
62) 4-Bromofluorobenzene	12.38	95	162141	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	

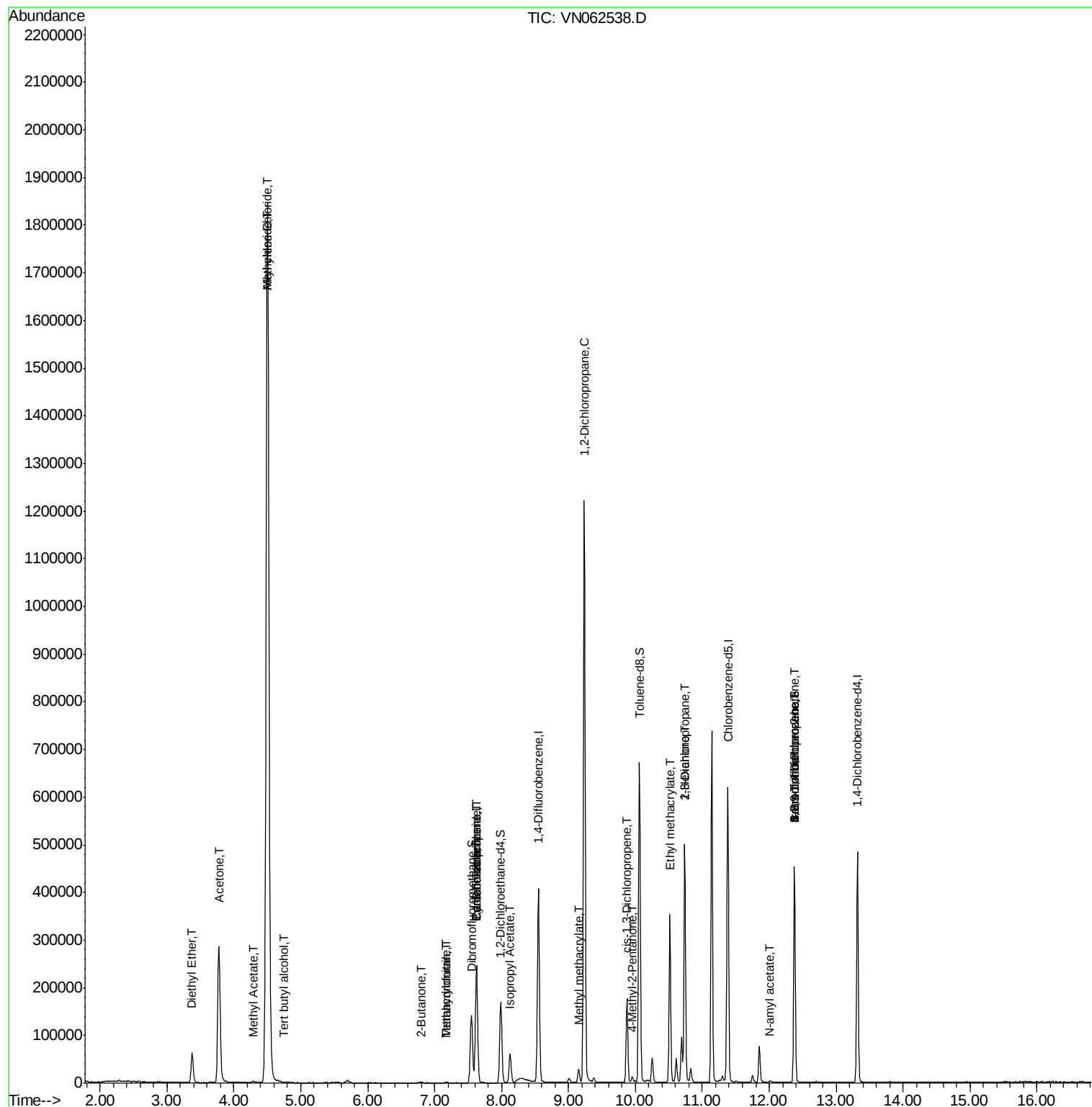
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	30519	21.060	ug/l	95
11) Tert butyl alcohol	4.75	59	98	0.202	ug/l #	74
14) Allyl chloride	4.50	41	60040	13.052	ug/l #	28
16) Acetone	3.78	43	484336	389.203	ug/l	97
18) Methyl Acetate	4.29	43	4569	1.471	ug/l #	91
20) Methylene Chloride	4.50	84	1320642	496.350	ug/l	95
25) 2-Butanone	6.80	43	3245	1.786	ug/l #	53
29) Tetrahydrofuran	7.17	42	452	0.369	ug/l #	39
31) Cyclohexane	7.63	56	4427	0.994	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16510	4.696	ug/l #	48
38) Carbon Tetrachloride	7.63	117	19887	6.292	ug/l #	15
41) Methacrylonitrile	7.18	41	609	0.355	ug/l #	26
43) Isopropyl Acetate	8.13	43	74032	11.401	ug/l #	93
45) 1,2-Dichloropropane	9.24	63	1403	0.466	ug/l #	44
48) Methyl methacrylate	9.15	41	4371	1.372	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	8730	2.251	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	29145	6.497	ug/l #	61
56) Ethyl methacrylate	10.52	69	1148	1.968	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4984	1.146	ug/l #	43
59) 2-Hexanone	10.74	43	75606	26.851	ug/l #	55
71) Bromoform	12.38	173	931	0.519	ug/l #	1
74) N-amyl acetate	12.01	43	2078	0.444	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	83954	27.537	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	83954	73.706	ug/l #	10
95) Naphthalene	15.11	128	147	Below Cal	#	70

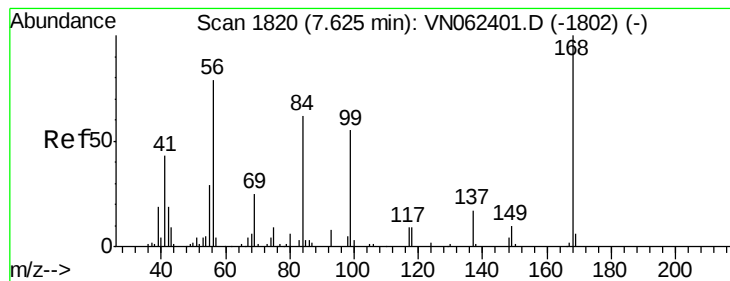
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN071520\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

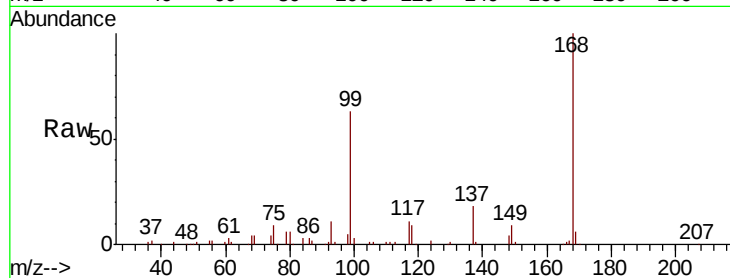
ClientSampleId :

Tot Ion:168 Resp: 190565

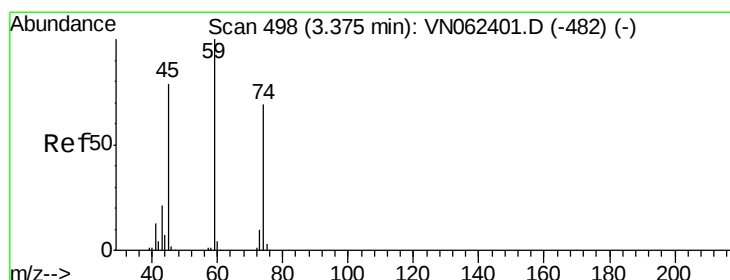
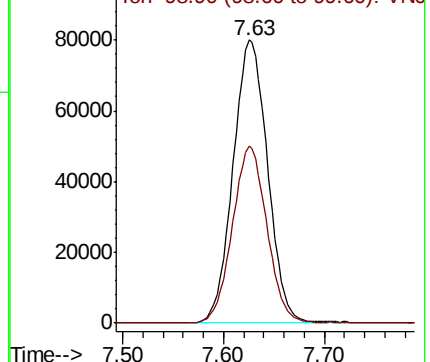
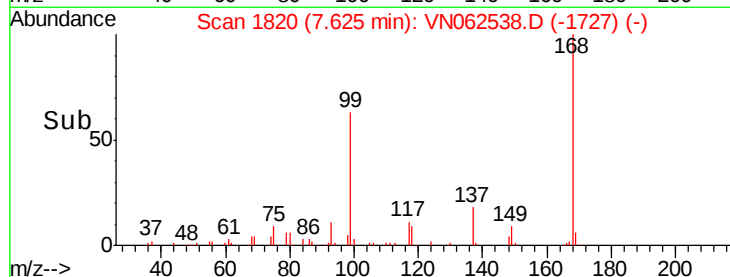
Ion Ratio Lower Upper

168 100

99 62.5 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): VN062538.D (-1727) (-)



#8

Diethyl Ether

Concen: 21.060 ug/l

RT: 3.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VN062538.D

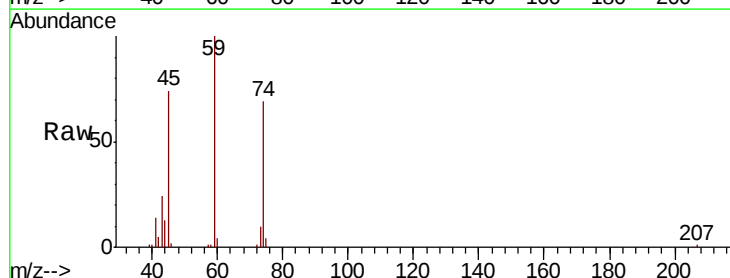
Acq: 15 Jul 2020 16:08

Tgt Ion: 74 Resp: 30519

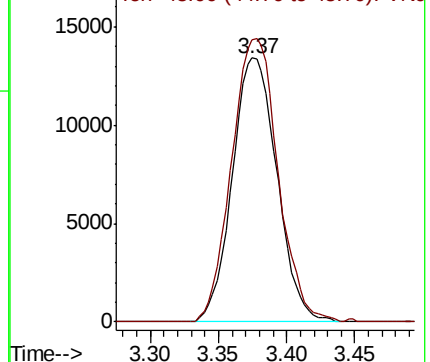
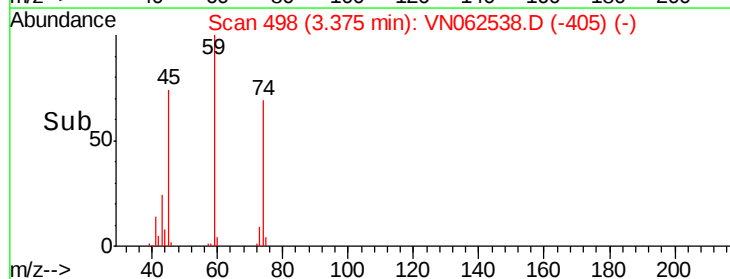
Ion Ratio Lower Upper

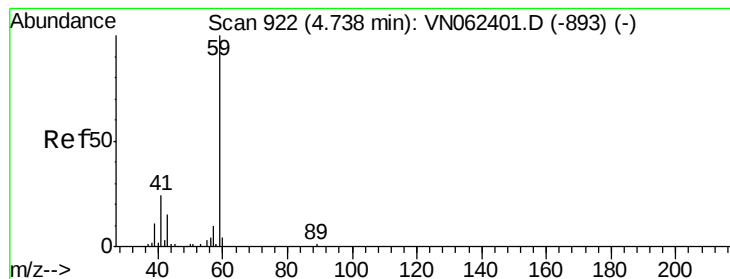
74 100

45 111.7 58.5 175.3



Abundance Ion 74.00 (73.70 to 74.70): VN062538.D (-405) (-)



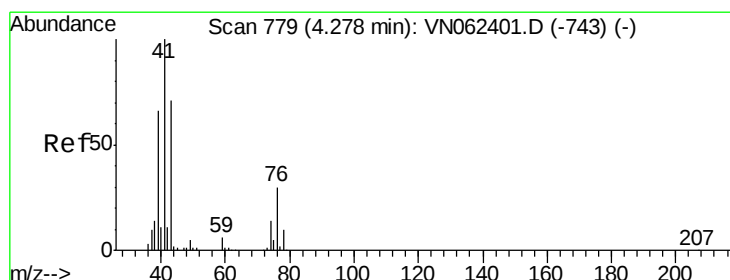
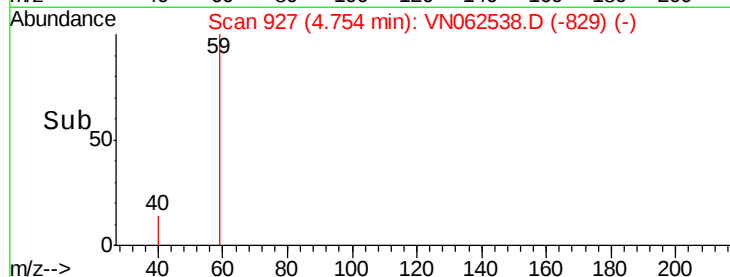
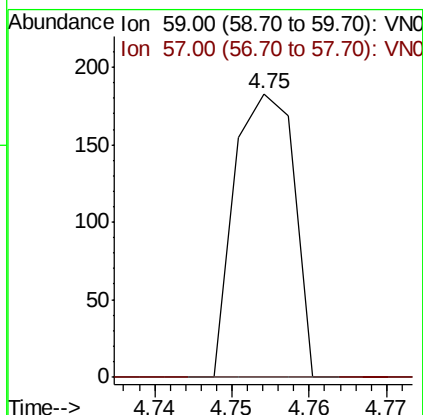
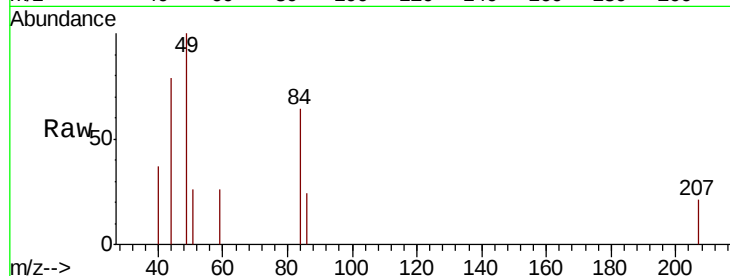


#11

Tert butyl alcohol
 Concen: 0.202 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. 0.02 min
 Lab File: VN062538.D
 Acq: 15 Jul 2020 16:08

Instrument :
 MSVOA_N
 ClientSampleId :

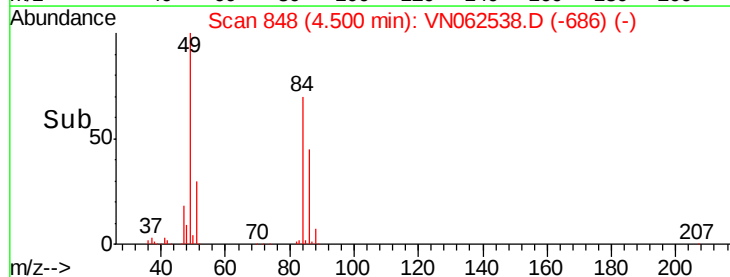
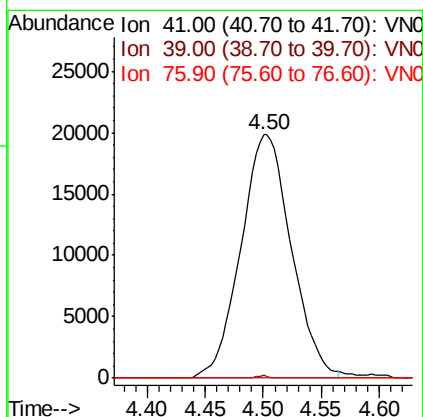
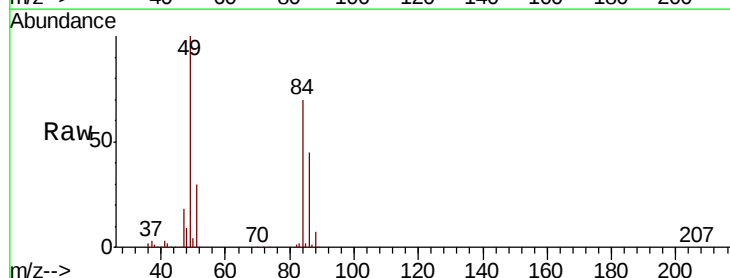
Tot Ion: 59 Resp: 98
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

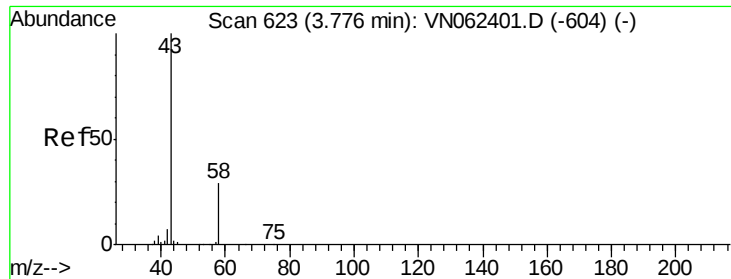


#14

Allyl chloride
 Concen: 13.052 ug/l
 RT: 4.50 min Scan# 848
 Delta R.T. 0.22 min
 Lab File: VN062538.D
 Acq: 15 Jul 2020 16:08

Tgt Ion: 41 Resp: 60040
 Ion Ratio Lower Upper
 41 100
 39 0.2 49.6 74.4#
 76 0.0 22.2 33.4#

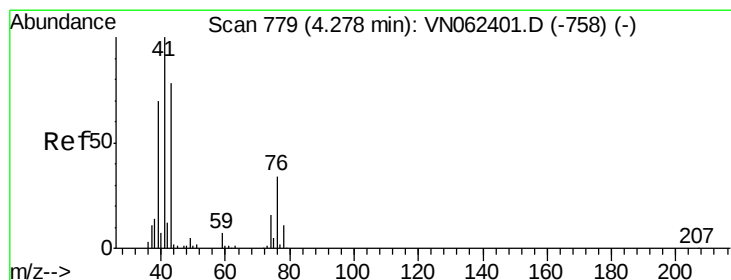
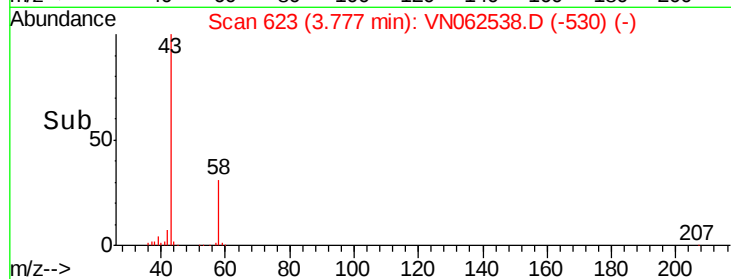
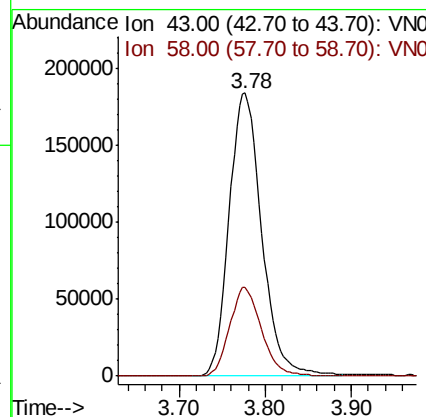
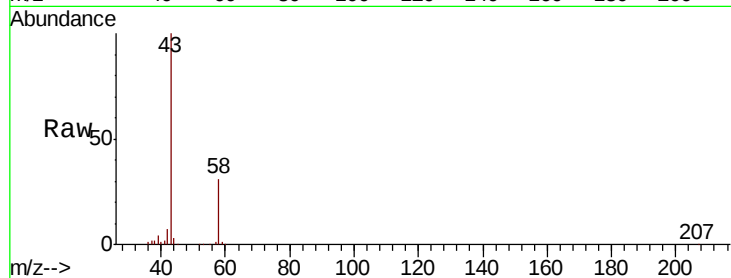




#16
Acetone
Concen: 389.203 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

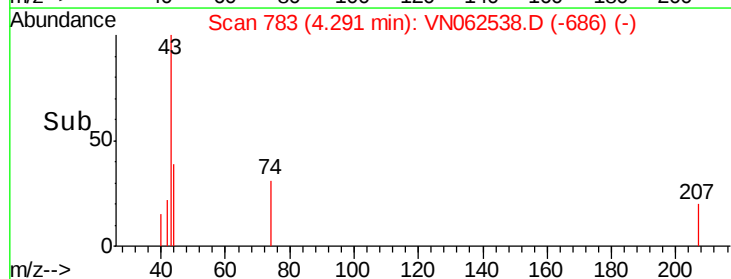
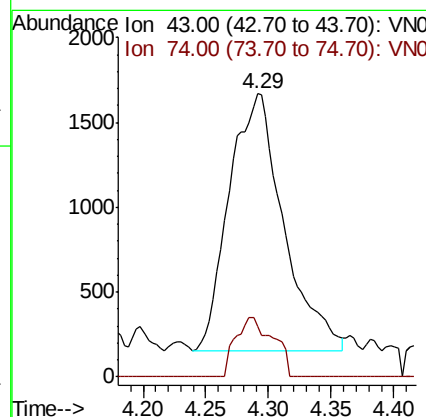
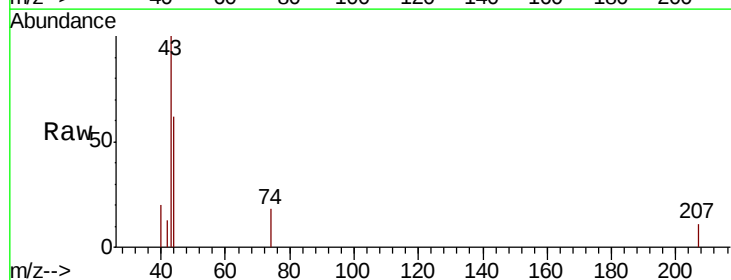
Instrument :
MSVOA_N
ClientSampled :

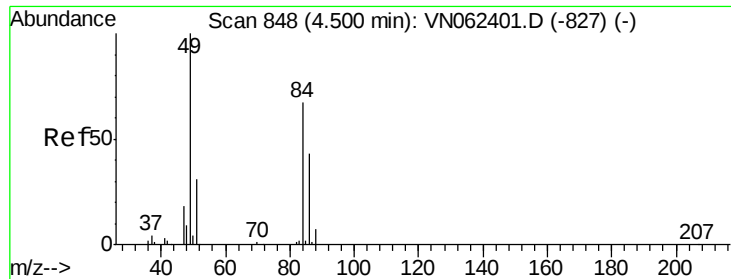
Tot Ion: 43 Resp: 484336
Ion Ratio Lower Upper
43 100
58 31.2 23.5 35.3



#18
Methyl Acetate
Concen: 1.471 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

Tgt Ion: 43 Resp: 4569
Ion Ratio Lower Upper
43 100
74 15.8 16.0 24.0#

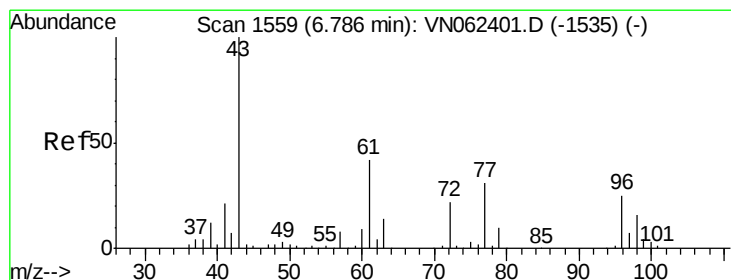
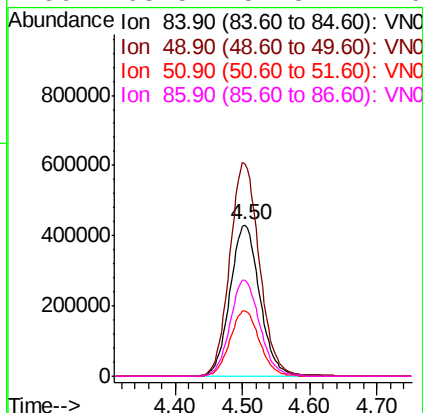
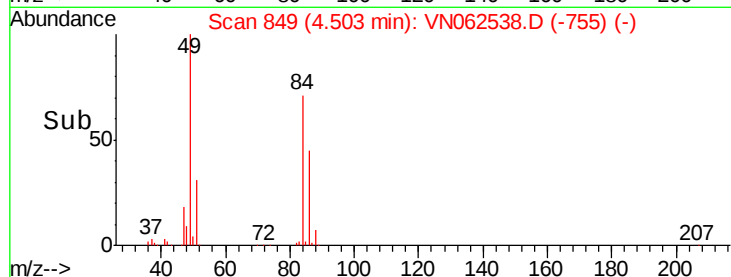
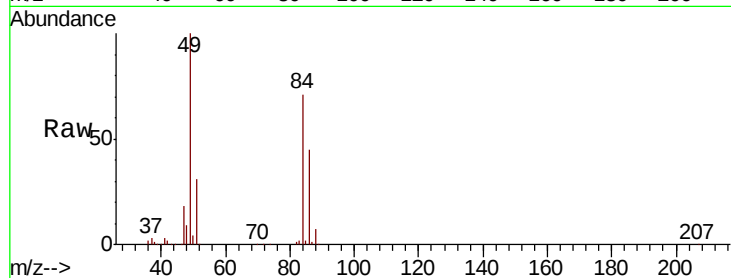




#20
Methvlene Chloride
Concen: 496.350 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

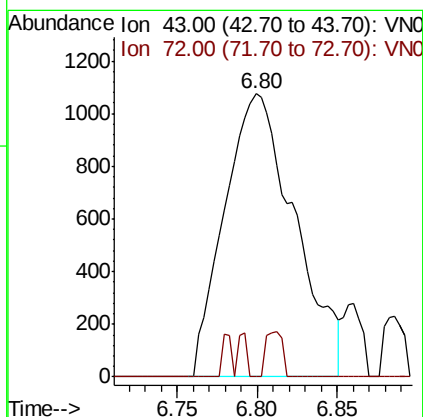
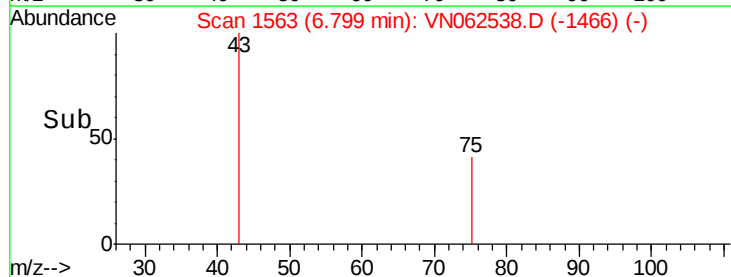
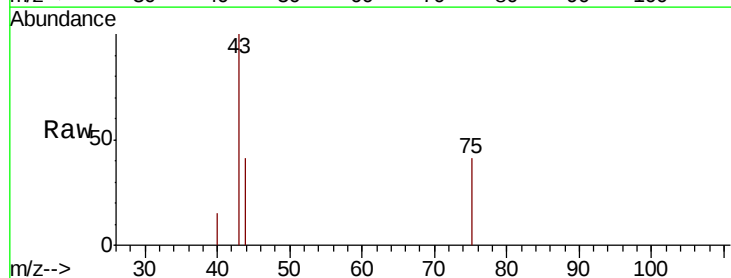
Instrument :
MSVOA_N
ClientSampled :

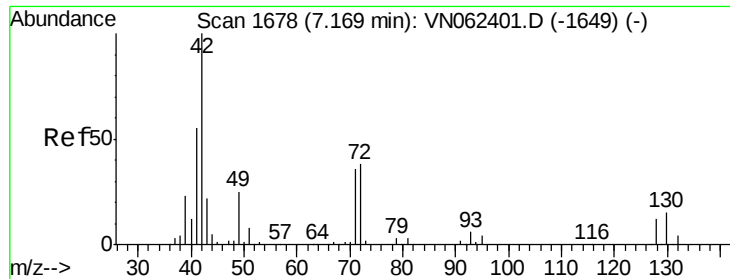
Tot Ion: 84 Resp: 1320642
Ion Ratio Lower Upper
84 100
49 140.8 120.0 180.0
51 43.4 37.0 55.6
86 63.5 51.8 77.6



#25
2-Butanone
Concen: 1.786 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

Tgt Ion: 43 Resp: 3245
Ion Ratio Lower Upper
43 100
72 0.0 17.9 26.9#





#29

Tetrahydrofuran

Concen: 0.369 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

ClientSampled :

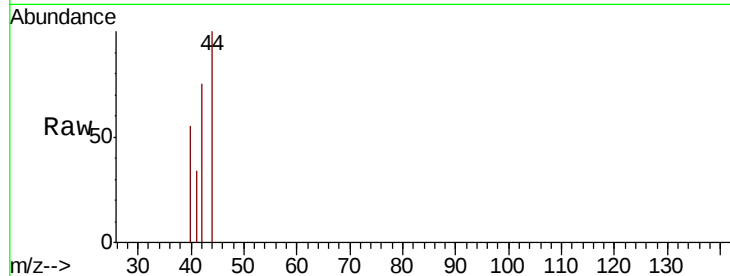
Tot Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 0.0 29.1 43.7#

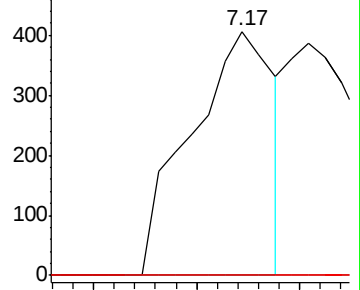
71 0.0 28.1 42.1#



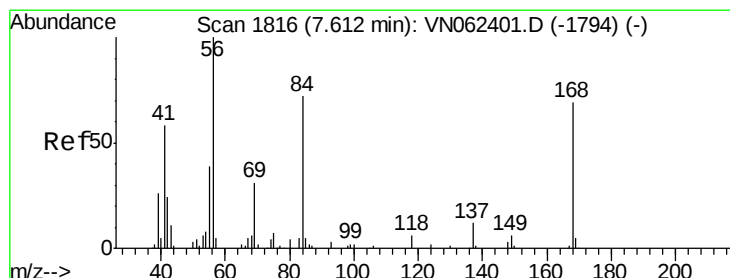
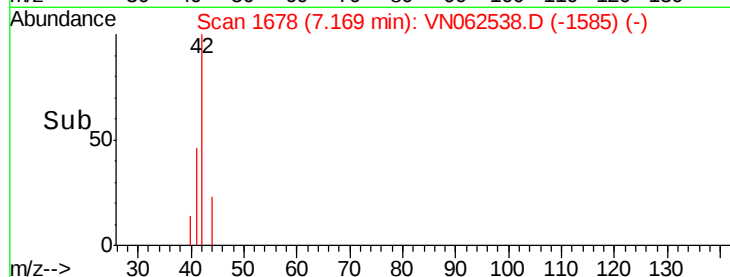
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 0.994 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

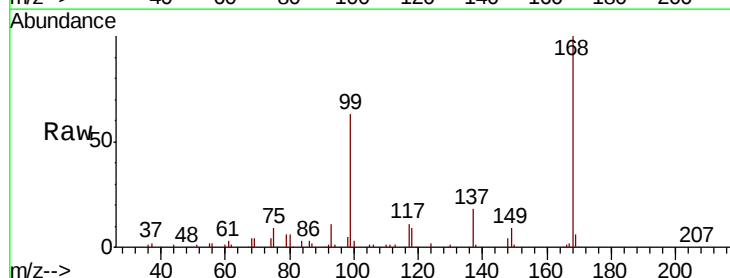
Tgt Ion: 56 Resp: 4427

Ion Ratio Lower Upper

56 100

69 175.4 24.5 36.7#

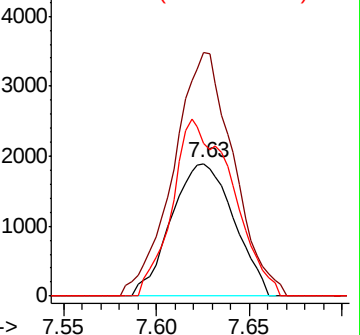
84 115.0 57.4 86.2#



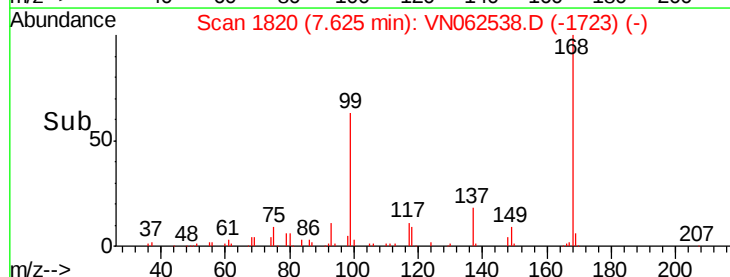
Abundance Ion 56.00 (55.70 to 56.70): VN0

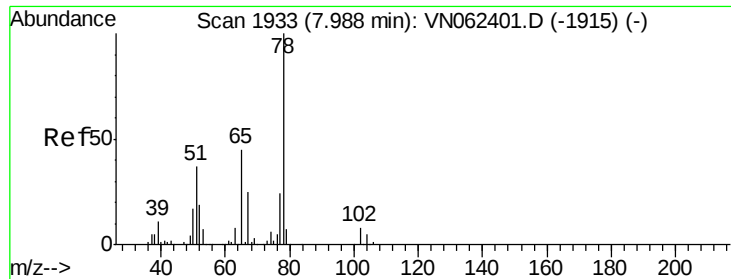
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

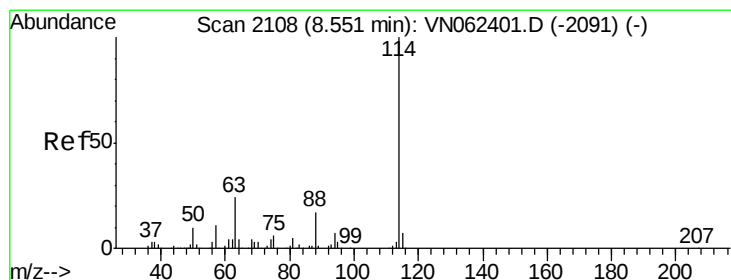
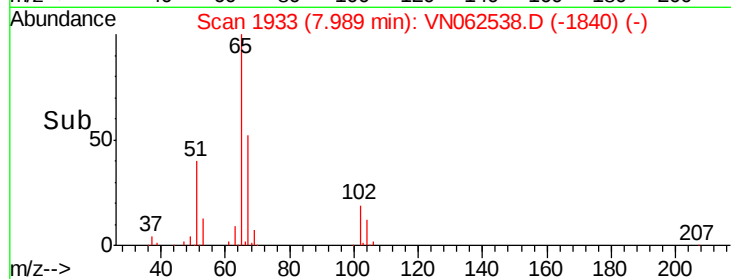
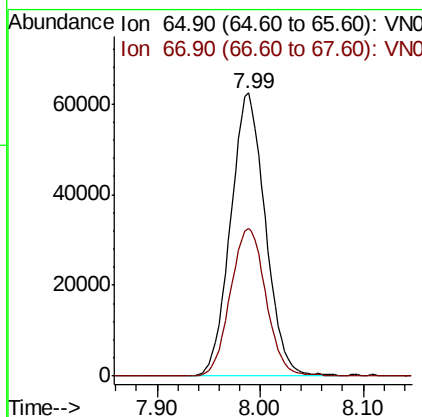
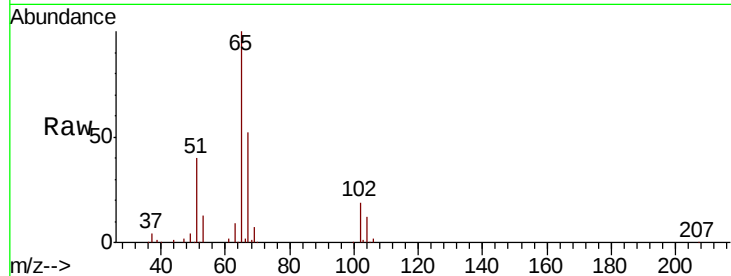




#33
 1,2-Dichloroethane-d4
 Concen: 49.838 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062538.D
 Acq: 15 Jul 2020 16:08

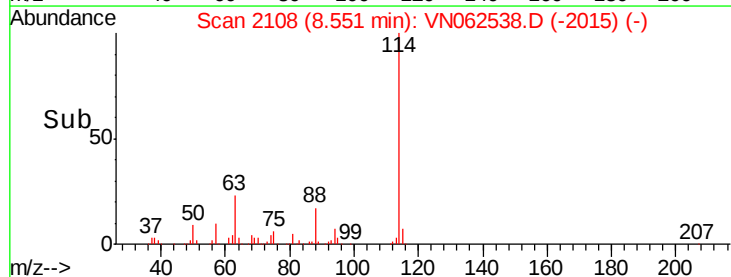
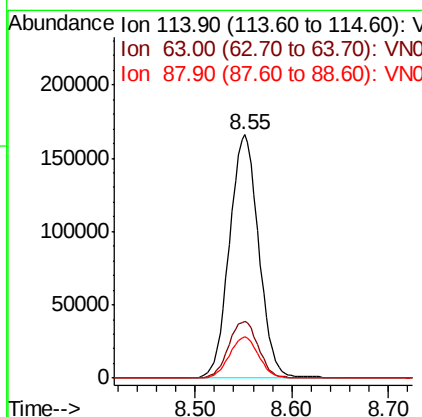
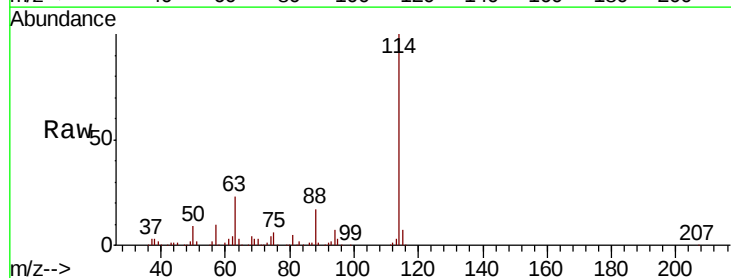
Instrument :
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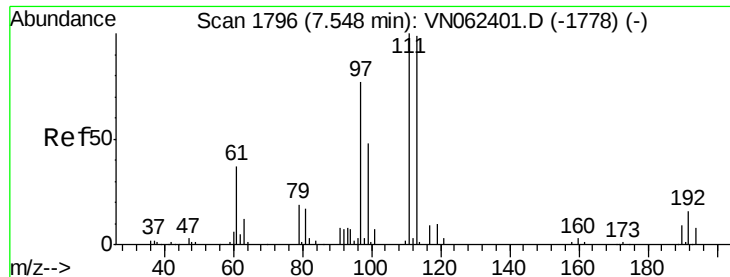
Tot Ion: 65 Resp: 146083
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062538.D
 Acq: 15 Jul 2020 16:08

Tgt Ion: 114 Resp: 348935
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 48.4
 88 16.8 0.0 33.8

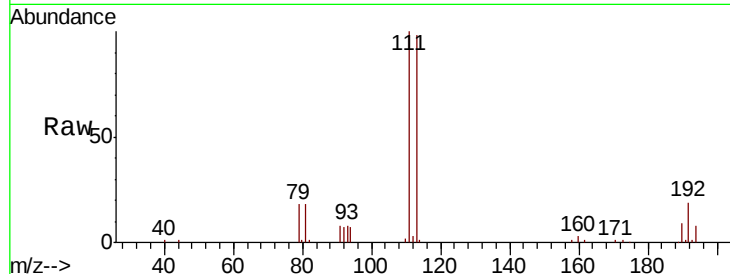




#35
 Dibromofluoromethane
 Concen: 50.721 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062538.D
 Acq: 15 Jul 2020 16:08

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.1	124.7
192	19.1	14.1	21.1

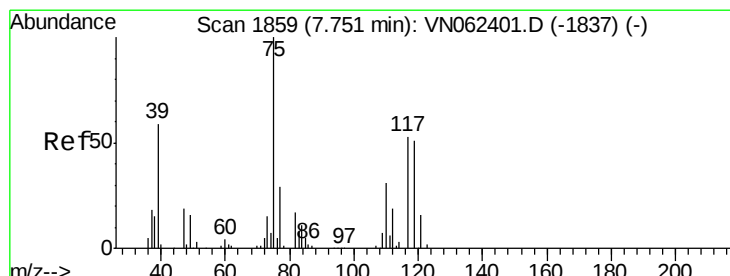
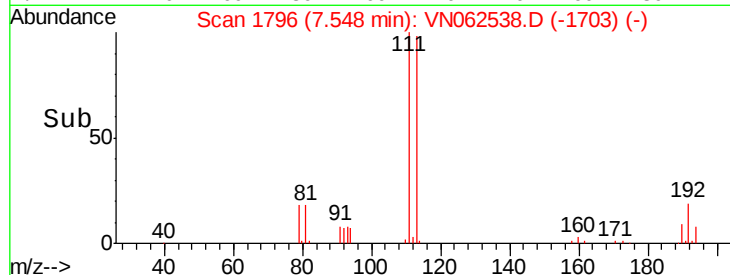
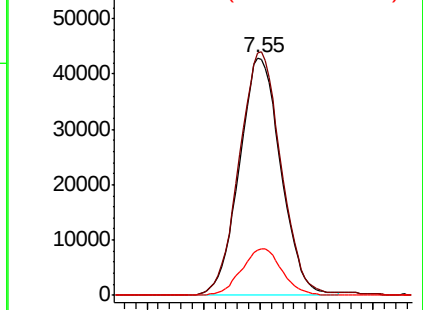


Abundance

Ion 112.80 (112.50 to 113.50): V

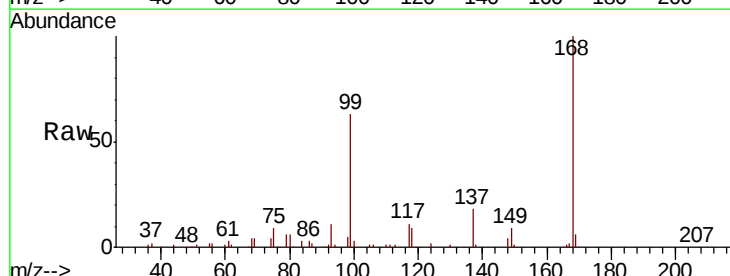
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.696 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062538.D
 Acq: 15 Jul 2020 16:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.7	15.4	46.2#
77	0.0	24.1	36.1#

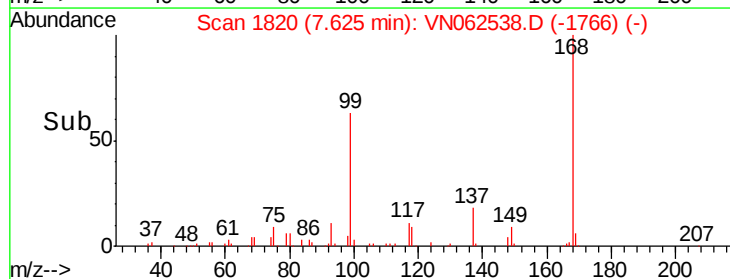
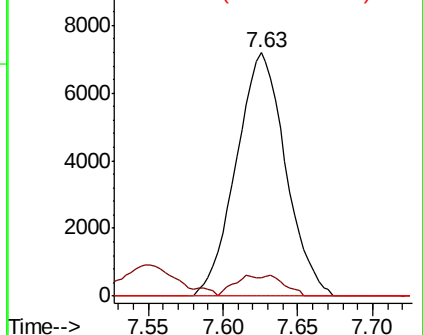


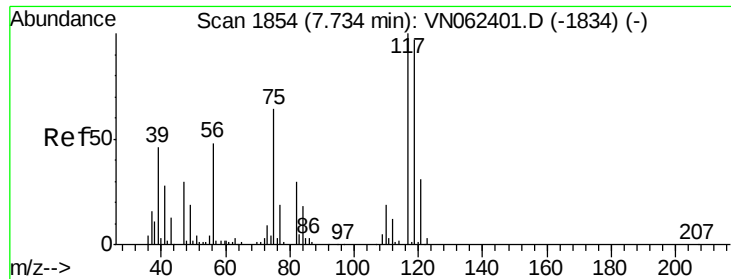
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.292 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

ClientSampleId :

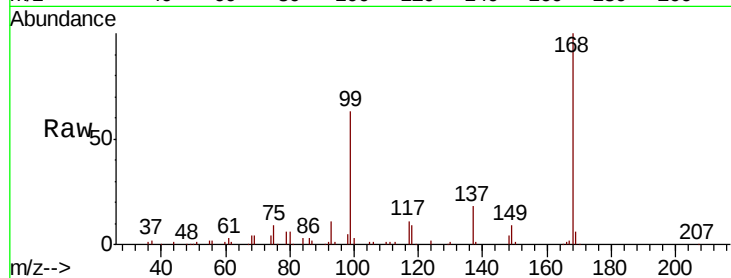
Tot Ion:117 Resp: 19887

Ion Ratio Lower Upper

117 100

119 4.0 77.2 115.8#

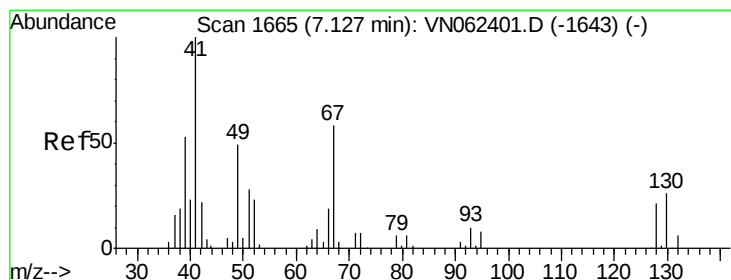
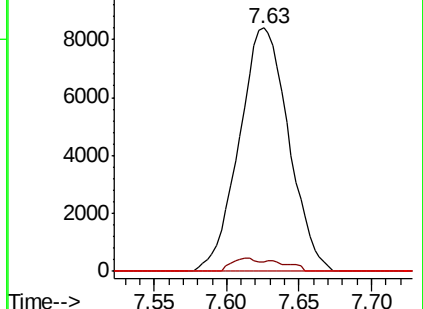
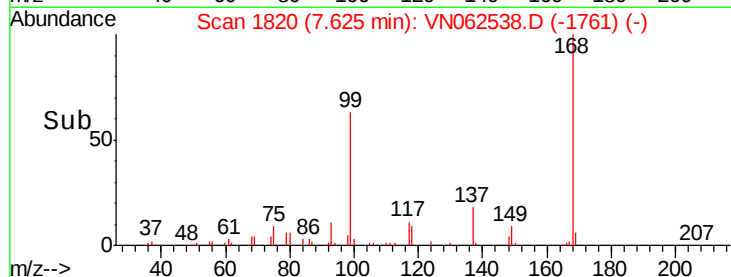
121 0.0 24.8 37.2#



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



#41

Methacrylonitrile

Concen: 0.355 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.06 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Tgt Ion: 41 Resp: 609

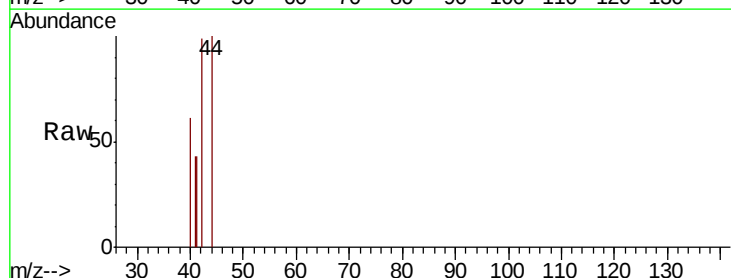
Ion Ratio Lower Upper

41 100

39 16.1 50.2 75.2#

67 0.0 64.2 96.2#

52 0.0 28.0 42.0#

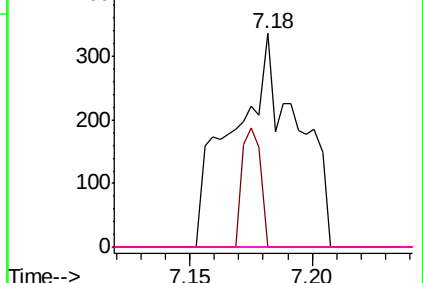
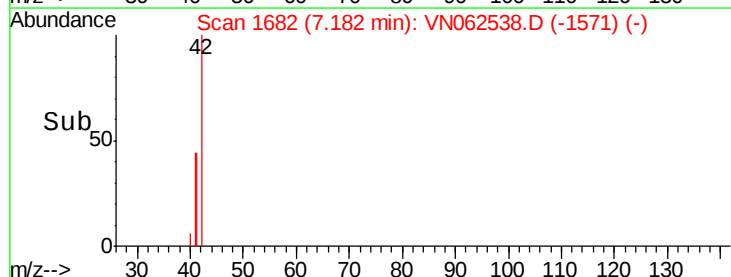


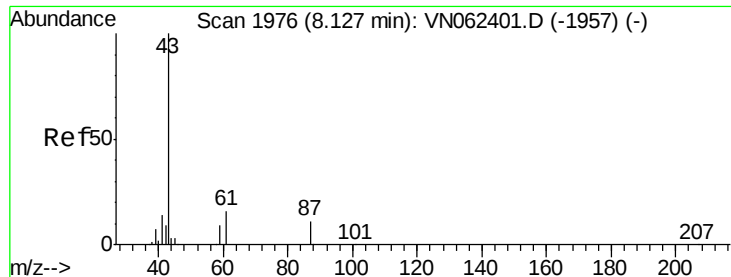
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 11.401 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

ClientSampleId :

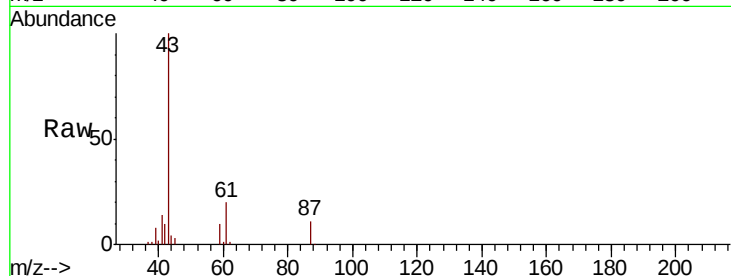
Tot Ion: 43 Resp: 74032

Ion Ratio Lower Upper

43 100

61 19.2 19.3 28.9#

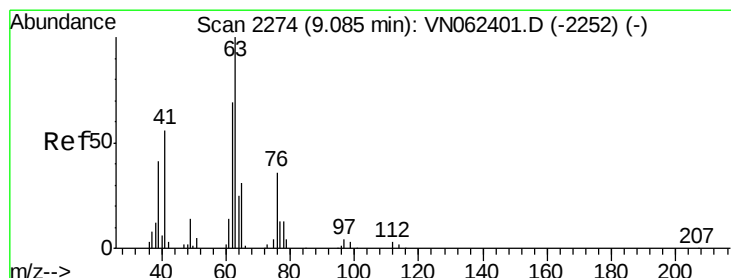
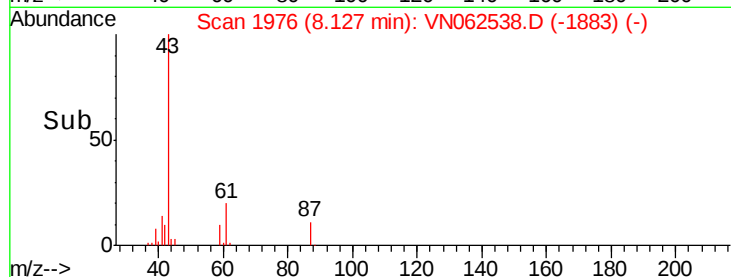
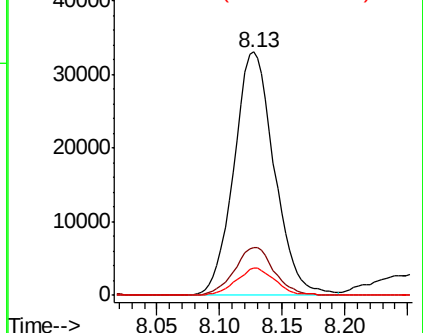
87 10.8 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VN062538.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062538.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062538.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.466 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062538.D

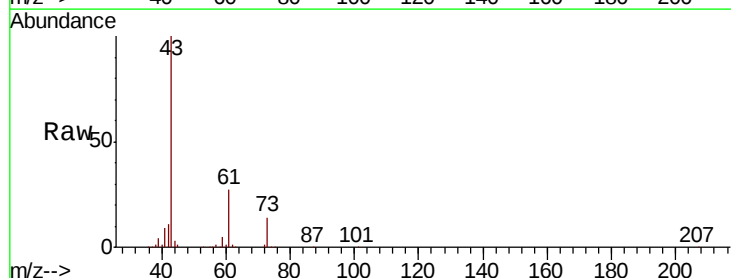
Acq: 15 Jul 2020 16:08

Tgt Ion: 63 Resp: 1403

Ion Ratio Lower Upper

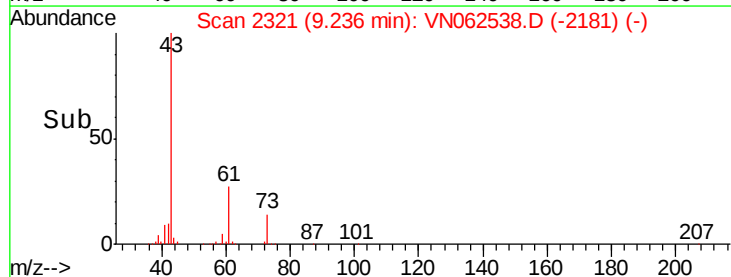
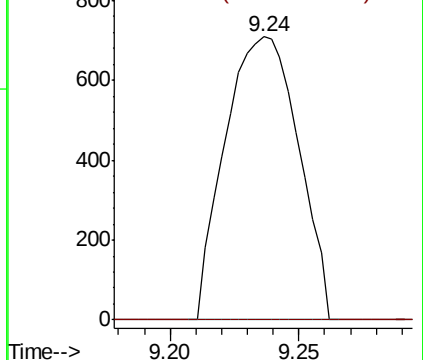
63 100

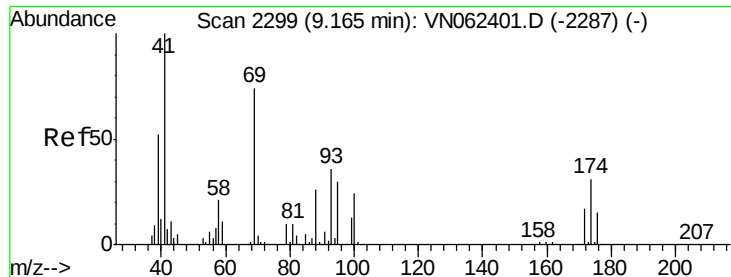
65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN062538.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062538.D (-2181) (-)

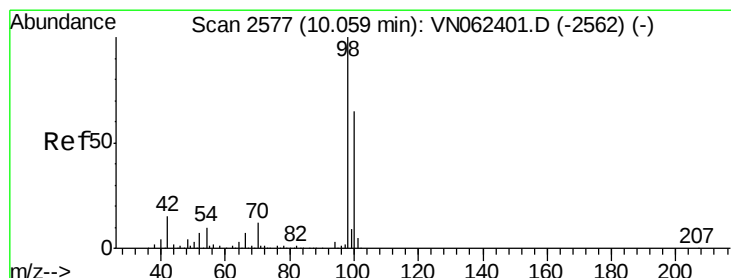
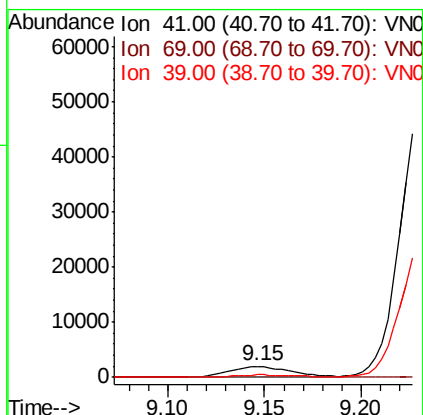
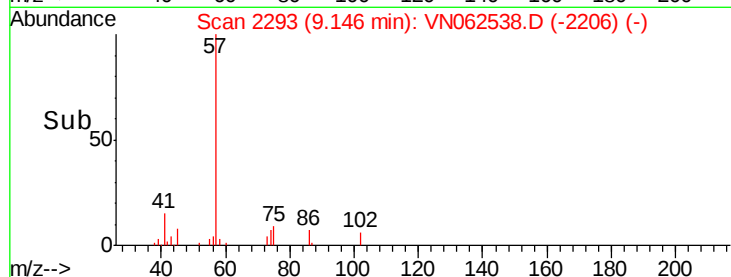
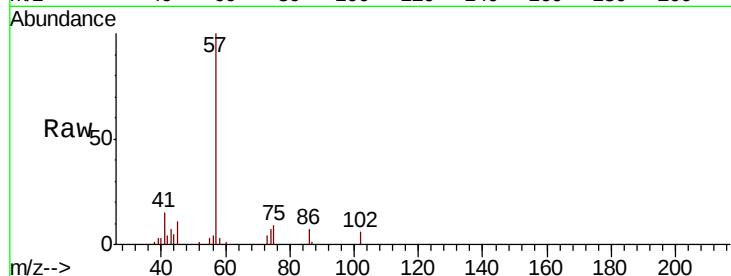




#48
Methvl methacrylate
Concen: 1.372 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

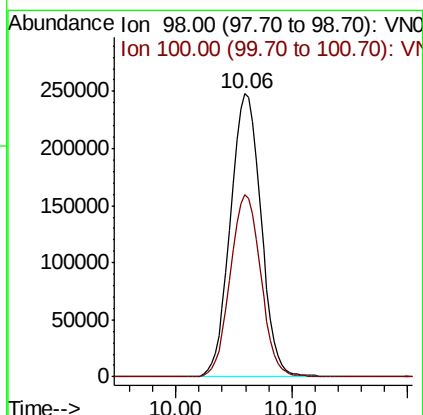
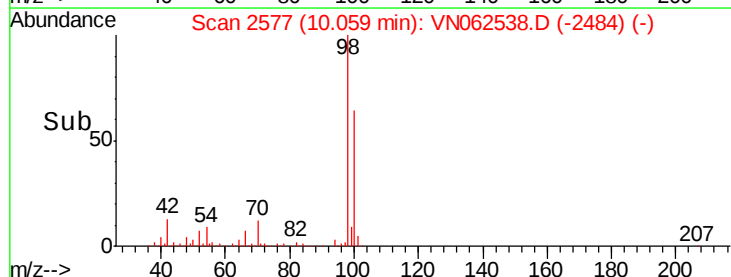
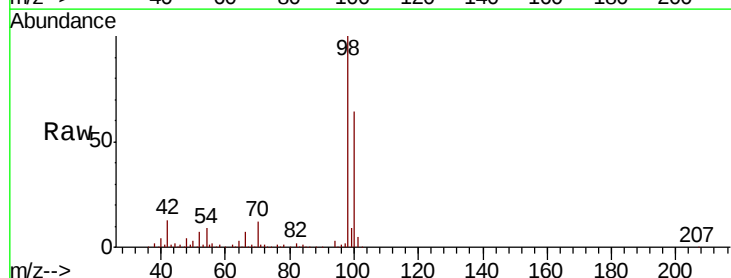
Instrument :
MSVOA_N
ClientSampleId :

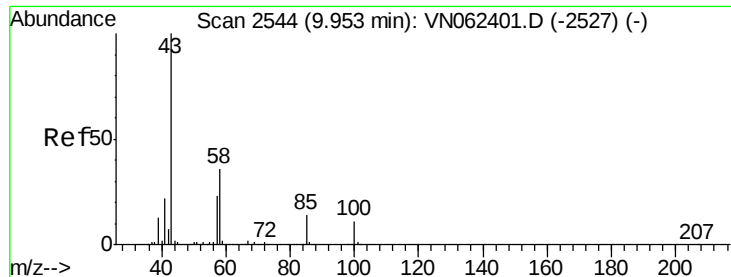
Tot Ion: 41 Resp: 4371
Ion Ratio Lower Upper
41 100
69 0.0 60.8 91.2#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 53.324 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

Tgt Ion: 98 Resp: 454039
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 2.251 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

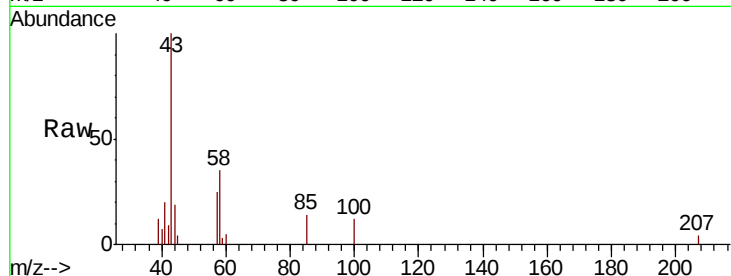
ClientSampled :

Tot Ion: 43 Resp: 8730

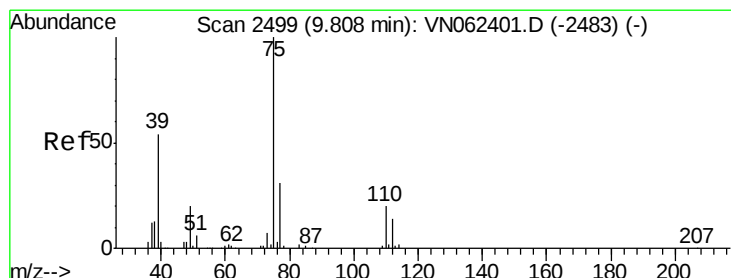
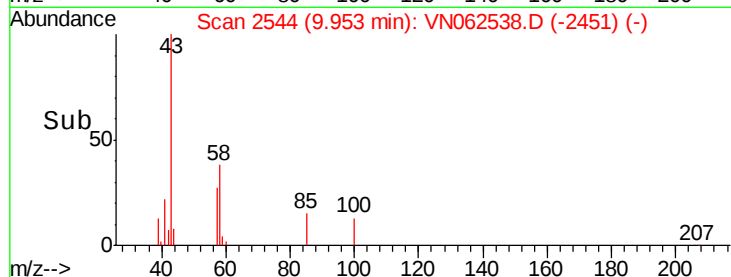
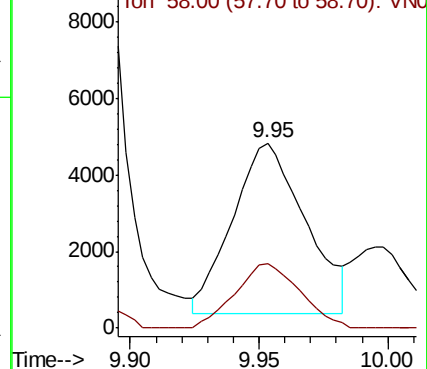
Ion Ratio Lower Upper

43 100

58 34.0 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN062538.D (-2451) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.497 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

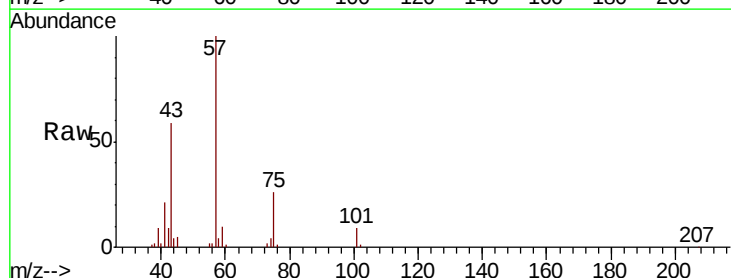
Tgt Ion: 75 Resp: 29145

Ion Ratio Lower Upper

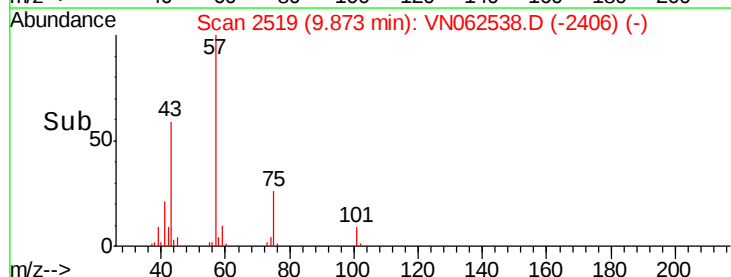
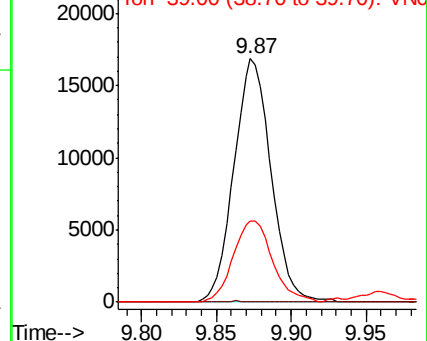
75 100

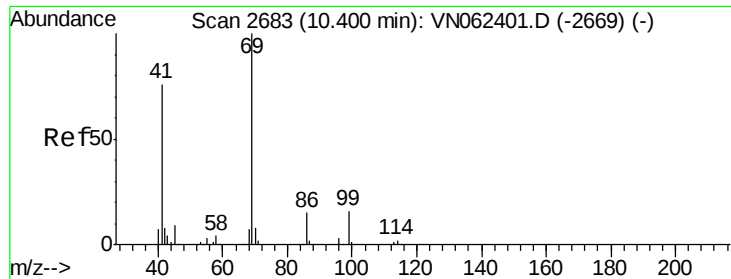
77 0.0 24.5 36.7#

39 33.5 43.4 65.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062538.D (-2406) (-)





#56

Ethyl methacrylate

Concen: 1.968 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

ClientSampled :

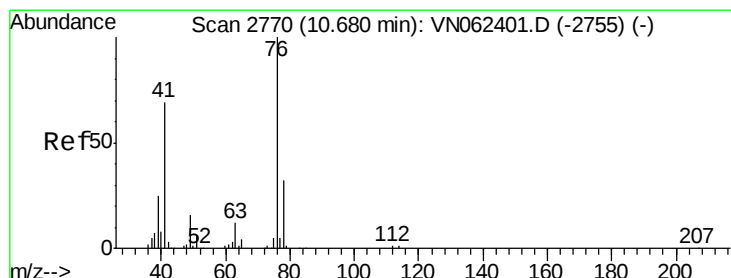
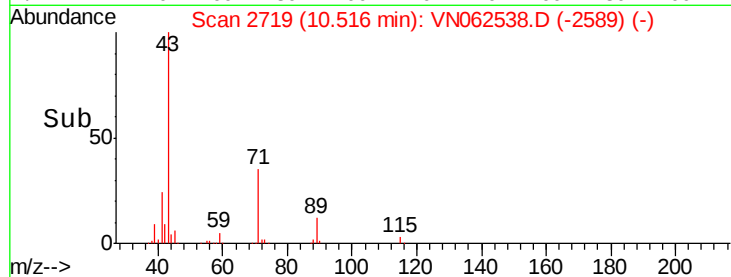
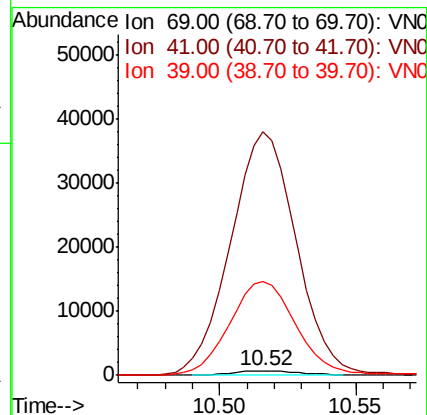
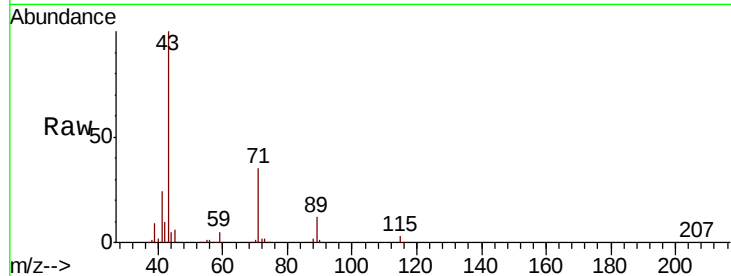
Tot Ion: 69 Resp: 1148

Ion Ratio Lower Upper

69 100

41 5567.2 59.7 89.5#

39 2150.2 30.6 45.8#



#57

1,3-Dichloropropane

Concen: 1.146 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062538.D

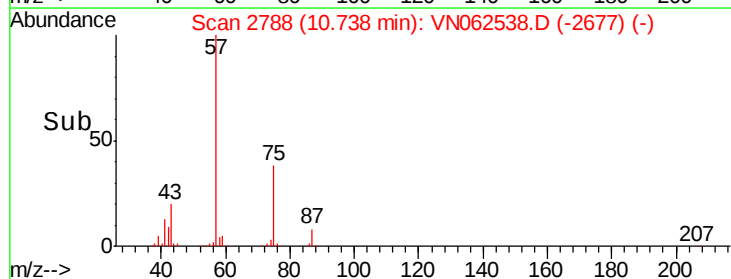
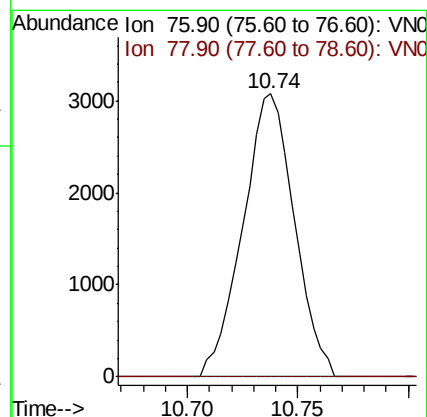
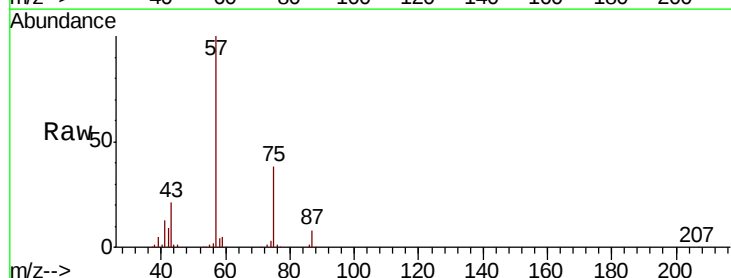
Acq: 15 Jul 2020 16:08

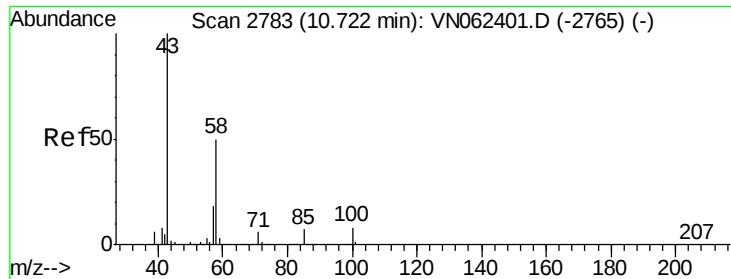
Tgt Ion: 76 Resp: 4984

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

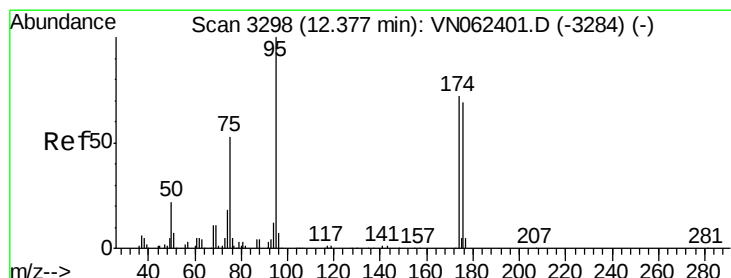
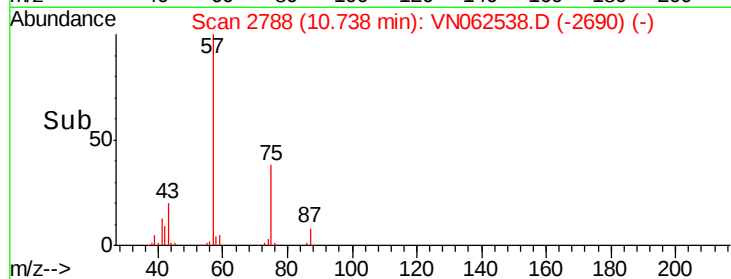
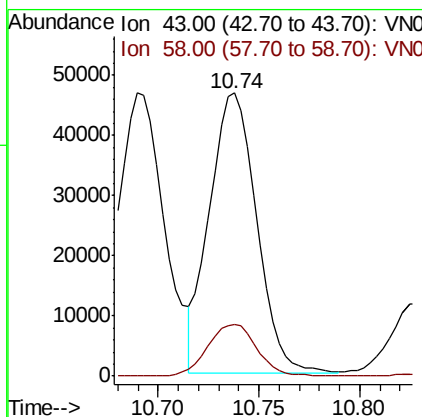
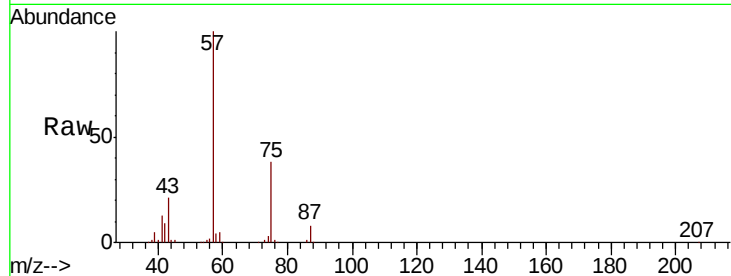




#59
2-Hexanone
Concen: 26.851 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

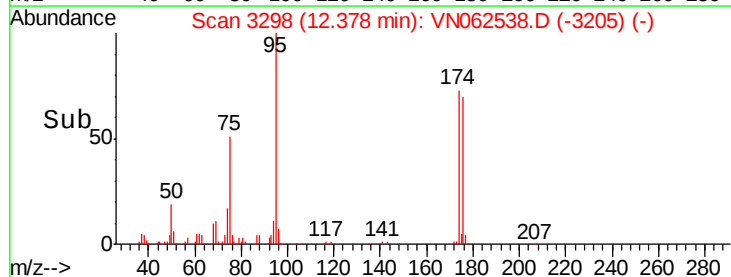
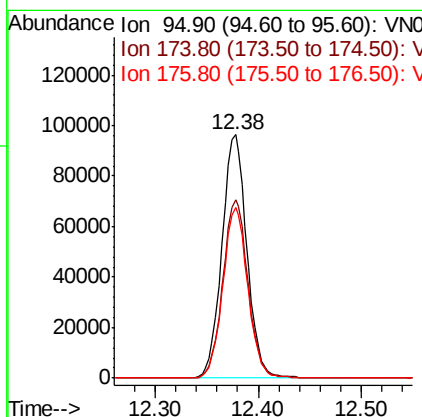
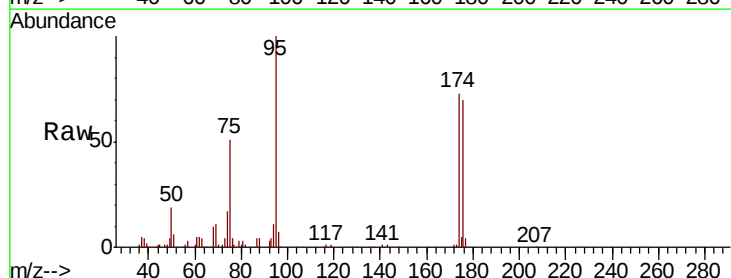
Instrument :
MSVOA_N
ClientSampled :

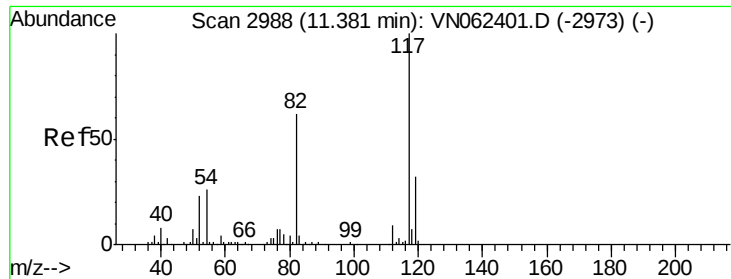
Tot Ion: 43 Resp: 75606
Ion Ratio Lower Upper
43 100
58 19.2 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 52.109 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

Tgt Ion: 95 Resp: 162141
Ion Ratio Lower Upper
95 100
174 73.8 0.0 141.6
176 70.2 0.0 137.2

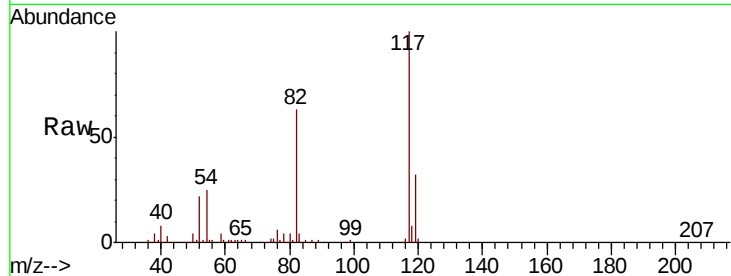




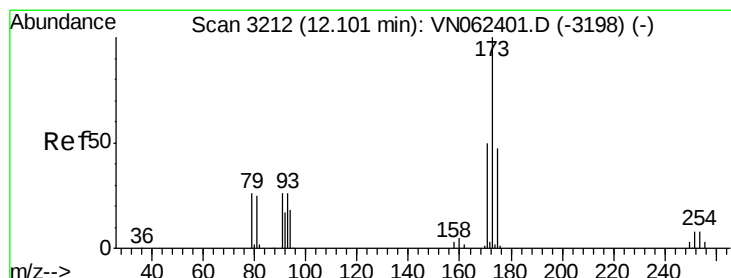
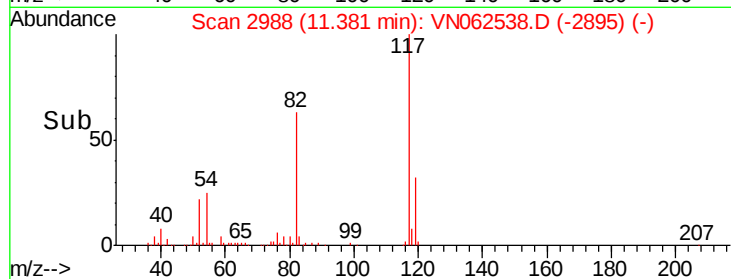
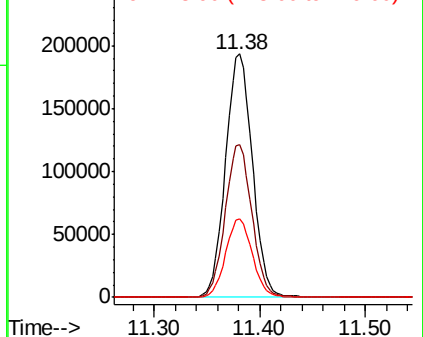
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 341608
Ion Ratio Lower Upper
117 100
82 62.7 49.6 74.4
119 32.0 25.4 38.0

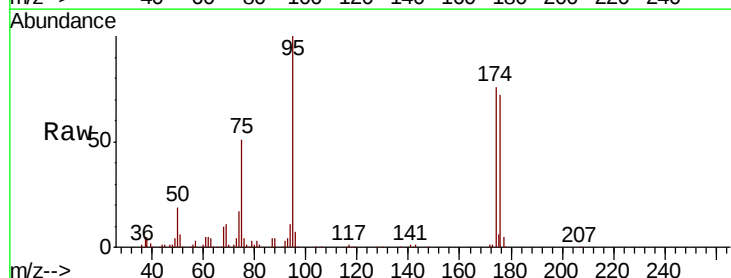


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

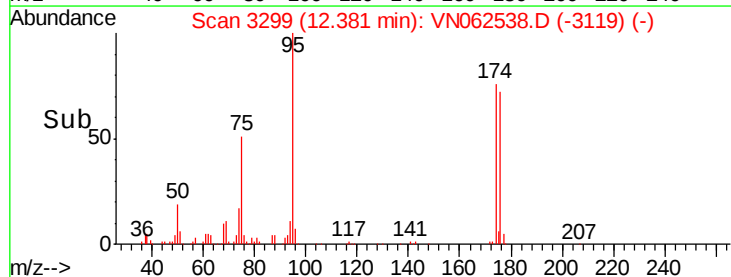
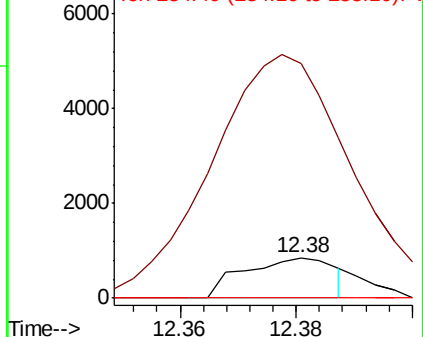


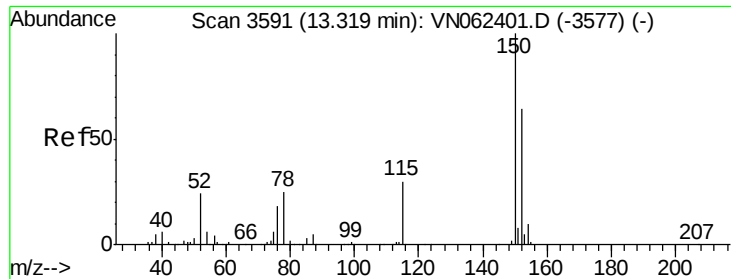
#71
Bromoform
Concen: 0.519 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

Tgt Ion:173 Resp: 931
Ion Ratio Lower Upper
173 100
175 781.4 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: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

ClientSampleId :

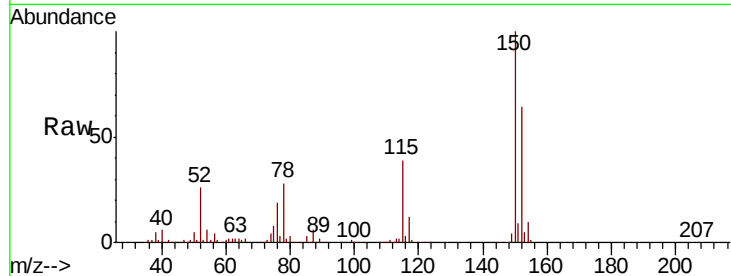
Tot Ion:152 Resp: 124252

Ion Ratio Lower Upper

152 100

115 60.9 31.4 94.2

150 157.8 0.0 347.4

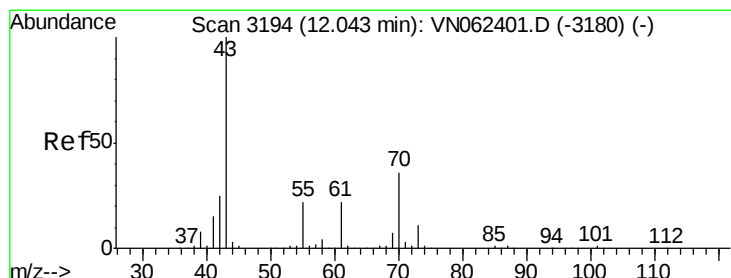
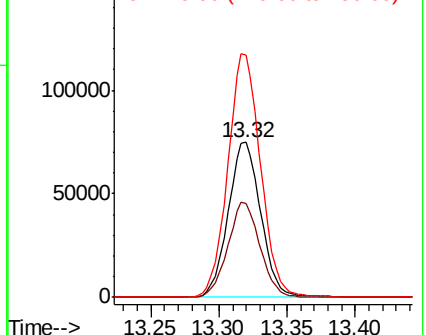
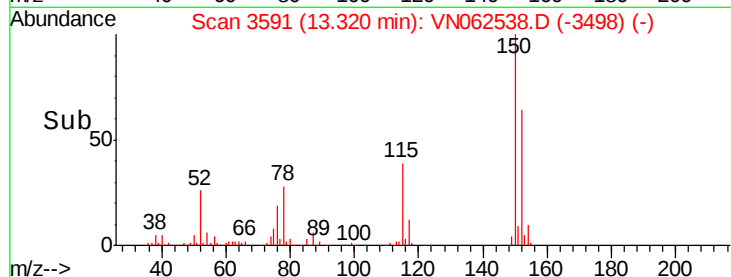


Abundance

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: 0.444 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Tgt Ion: 43 Resp: 2078

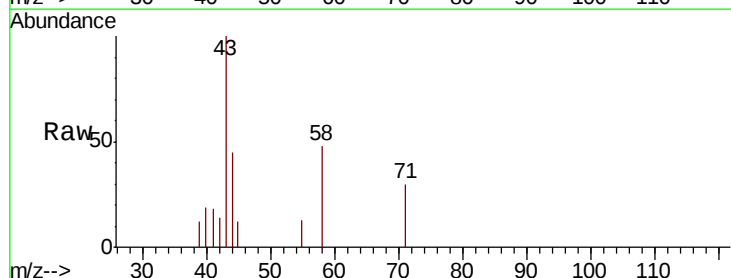
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 6.7 18.2 27.4#

61 0.0 17.7 26.5#



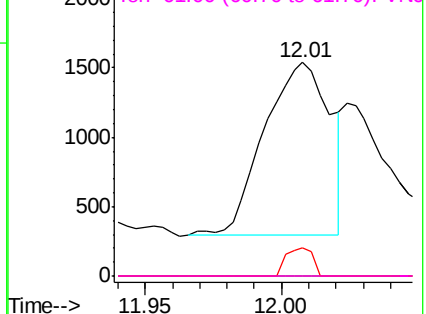
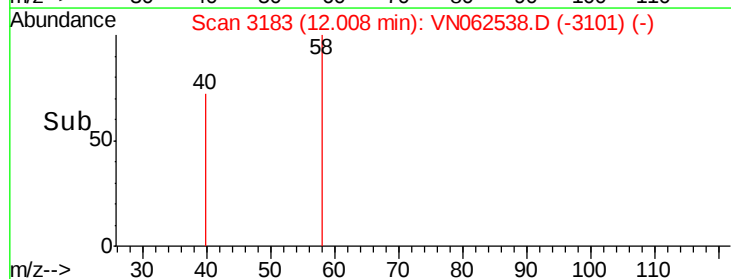
Abundance

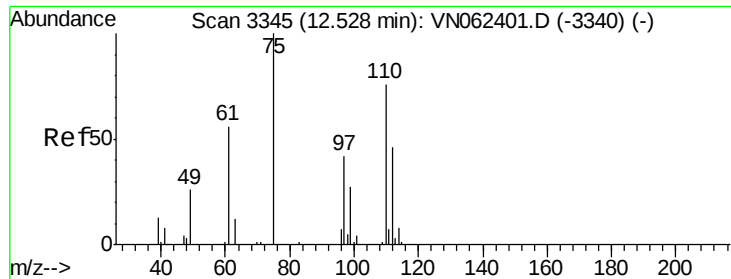
Ion 43.00 (42.70 to 43.70): VN0

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: 27.537 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

Instrument :

MSVOA_N

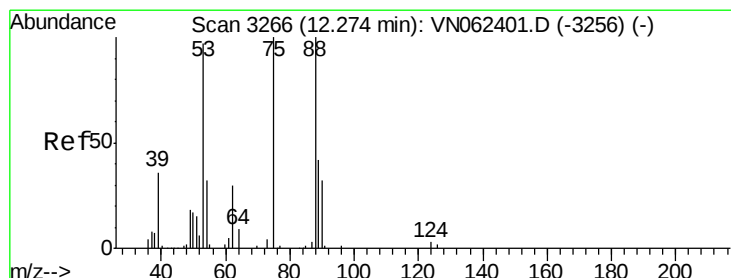
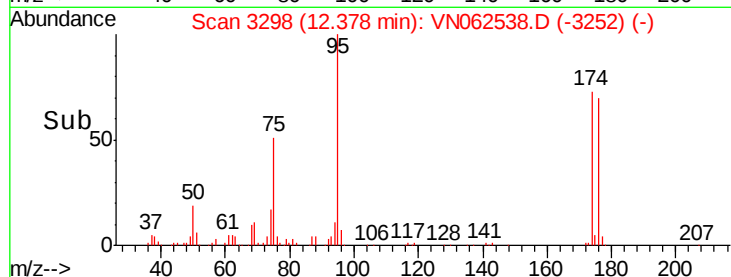
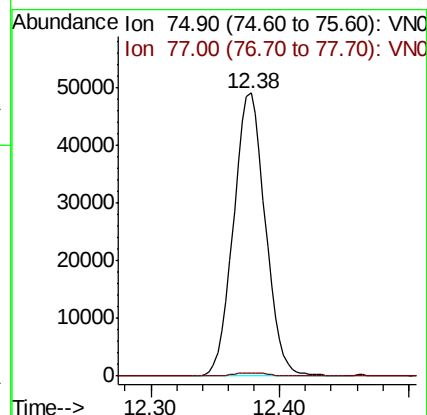
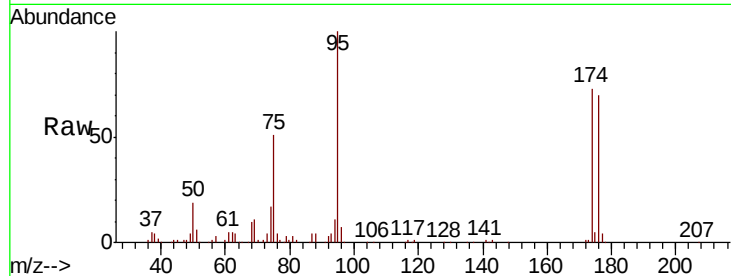
ClientSampled :

Tot Ion: 75 Resp: 83954

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.706 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062538.D

Acq: 15 Jul 2020 16:08

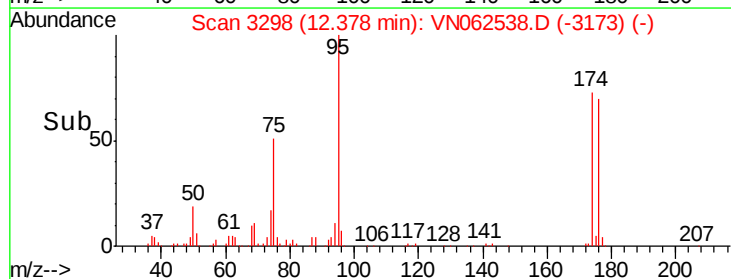
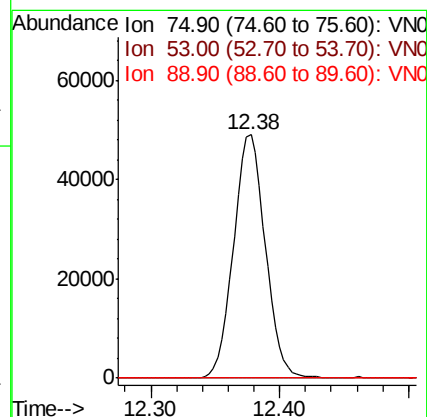
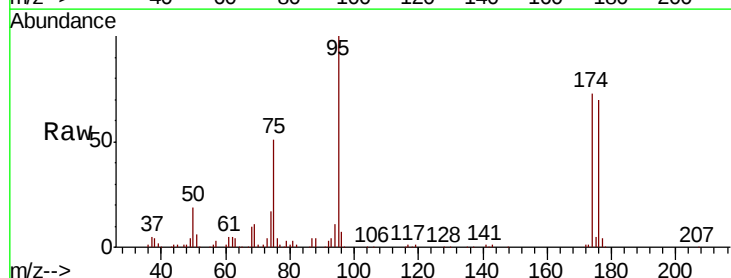
Tgt Ion: 75 Resp: 83954

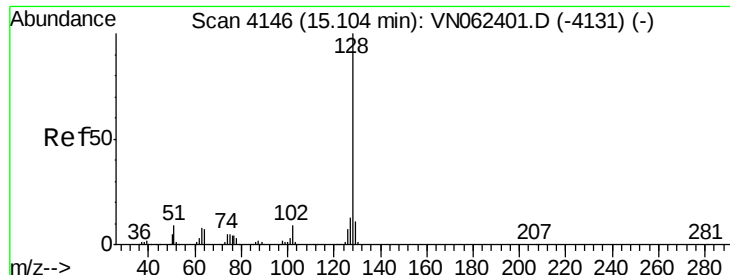
Ion Ratio Lower Upper

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# 4148
Delta R.T. 0.01 min
Lab File: VN062538.D
Acq: 15 Jul 2020 16:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 147
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 12.8#

