

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060320\
 Data File : VN061639.D
 Acq On : 3 Jun 2020 15:32
 Operator : JC/MD
 Sample : L2837-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP

Quant Time: Jun 04 07:47:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	293005	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	513933	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	530860	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	237128	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	175097	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
35) Dibromofluoromethane	7.55	113	135341	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
50) Toluene-d8	10.06	98	637122	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
62) 4-Bromofluorobenzene	12.38	95	236631	53.68	ug/l	0.00
Spiked Amount			Recovery	=	107.36%	

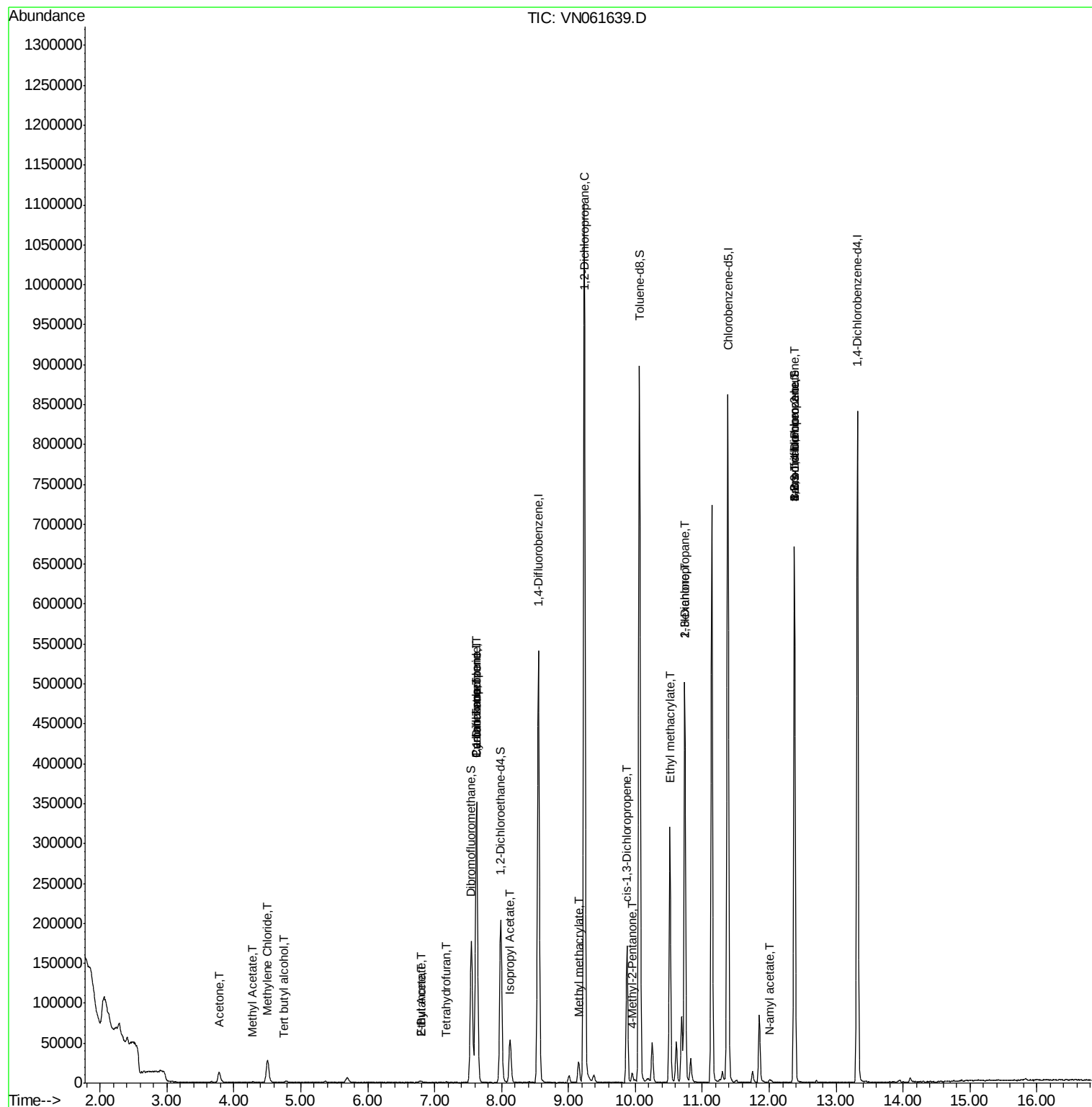
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	243	0.523	ug/l #	72
16) Acetone	3.78	43	21749	16.822	ug/l	93
18) Methyl Acetate	4.28	43	1468	0.465	ug/l	94
20) Methylene Chloride	4.51	84	23214	5.777	ug/l	90
25) 2-Butanone	6.80	43	4080	2.466	ug/l	93
29) Tetrahydrofuran	7.16	42	481	0.441	ug/l #	39
31) Cyclohexane	7.63	56	5330	1.083	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	21310	4.684	ug/l #	42
37) Ethyl Acetate	6.80	43	4080	1.113	ug/l #	66
38) Carbon Tetrachloride	7.63	117	29131	6.638	ug/l #	16
43) Isopropyl Acetate	8.13	43	62390	9.463	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1620	0.486	ug/l #	44
48) Methyl methacrylate	9.15	41	3292	1.110	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	7975	2.147	ug/l	90
54) cis-1,3-Dichloropropene	9.88	75	35226	6.004	ug/l #	62
56) Ethyl methacrylate	10.51	69	1100	0.216	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5513	0.944	ug/l #	42
59) 2-Hexanone	10.74	43	63469	23.788	ug/l #	48
71) Bromoform	12.37	173	1877	0.593	ug/l #	1
74) N-amyl acetate	12.00	43	2180	0.400	ug/l #	40
76) 1,2,3-Trichloropropane	12.38	75	115583	26.806	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	115583	68.549	ug/l #	15

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061639.D

Acq: 3 Jun 2020 15:32

Instrument :

MSVOA_N

ClientSampleId :

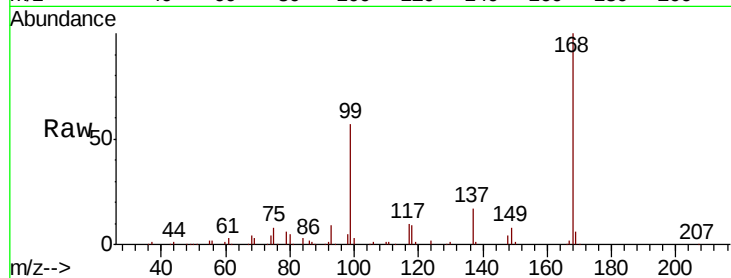
SP

Tot Ion:168 Resp: 293005

Ion Ratio Lower Upper

168 100

99 56.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

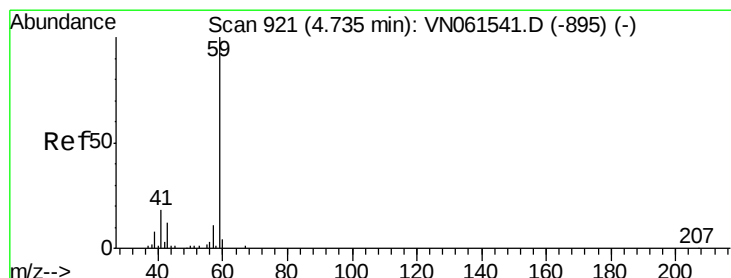
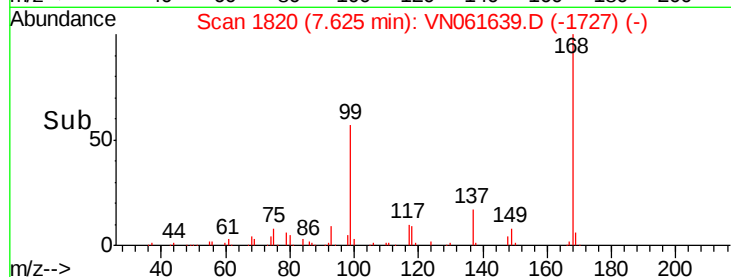
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.523 ug/l

RT: 4.74 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN061639.D

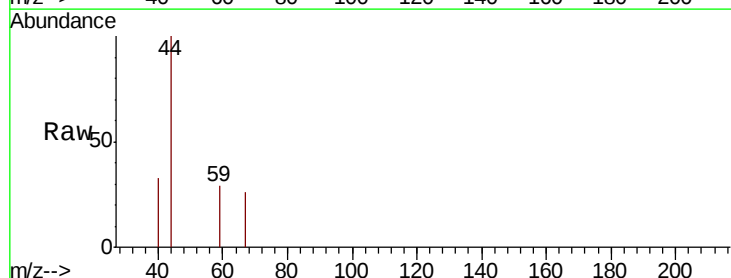
Acq: 3 Jun 2020 15:32

Tgt Ion: 59 Resp: 243

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

200

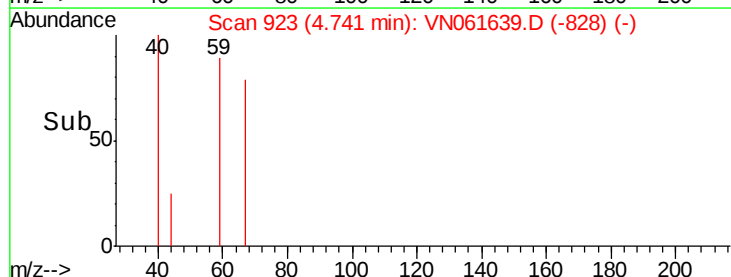
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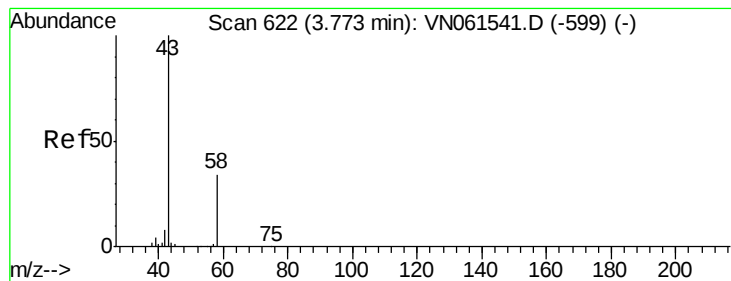
100

50

0

Time--> 4.70 4.72 4.74 4.76





#16

Acetone

Concen: 16.822 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061639.D

Acq: 3 Jun 2020 15:32

Instrument :

MSVOA_N

ClientSampleId :

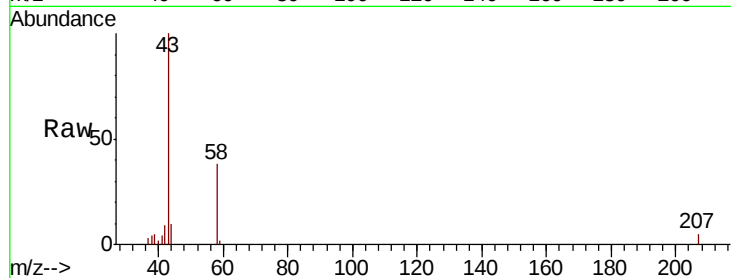
SP

Tot Ion: 43 Resp: 21749

Ion Ratio Lower Upper

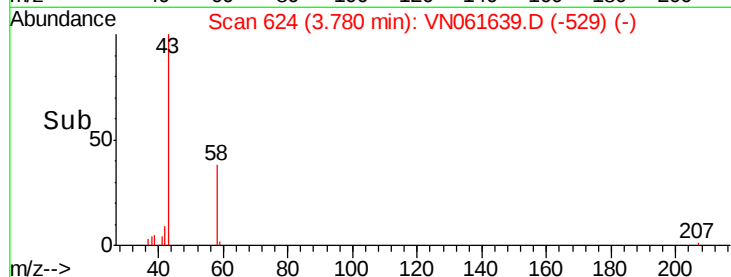
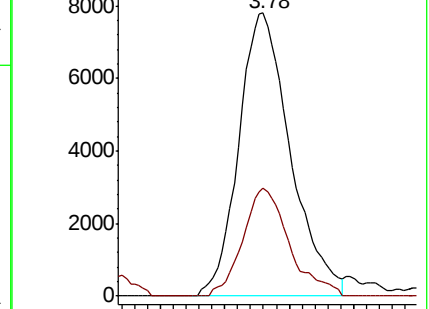
43 100

58 38.1 27.2 40.8

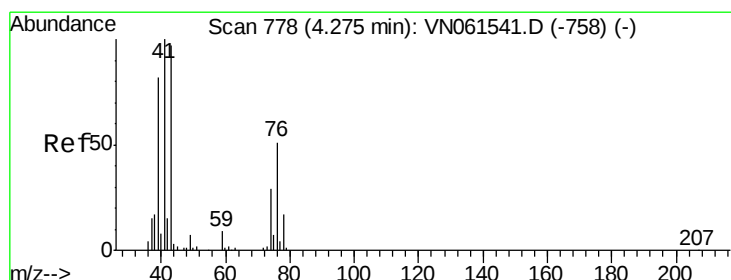


Abundance Ion 43.00 (42.70 to 43.70): VN061639.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN061639.D (-529) (-)



Time-->



#18

Methyl Acetate

Concen: 0.465 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.01 min

Lab File: VN061639.D

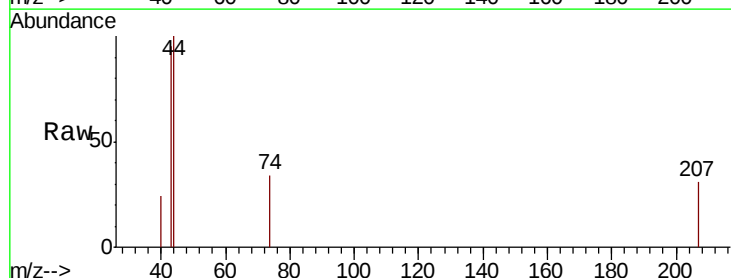
Acq: 3 Jun 2020 15:32

Tgt Ion: 43 Resp: 1468

Ion Ratio Lower Upper

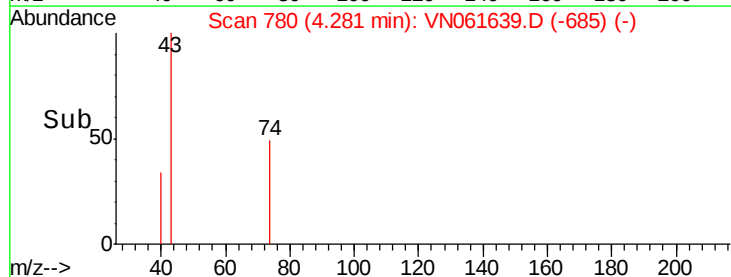
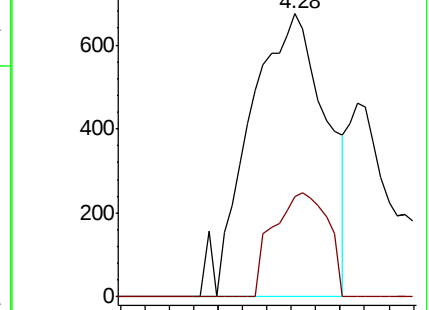
43 100

74 26.0 23.2 34.8

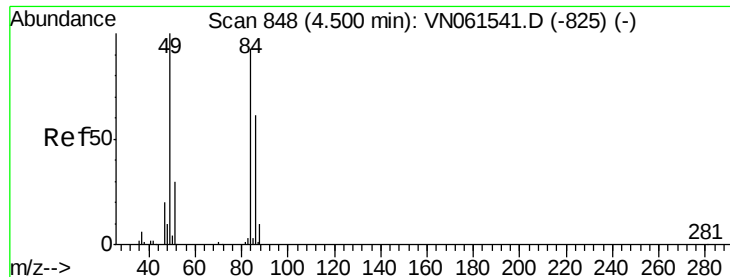


Abundance Ion 43.00 (42.70 to 43.70): VN061639.D (-685) (-)

Ion 74.00 (73.70 to 74.70): VN061639.D (-685) (-)



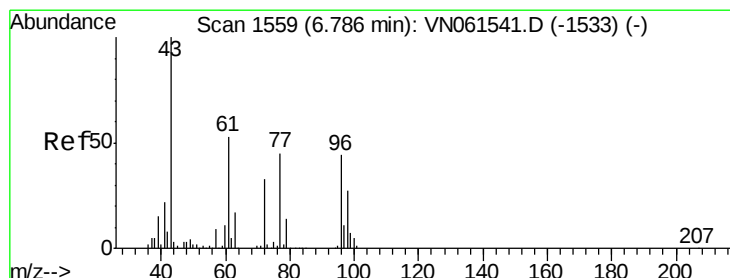
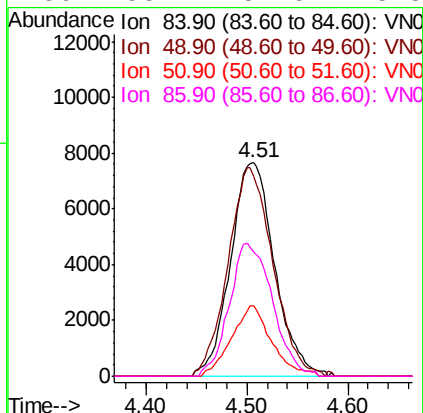
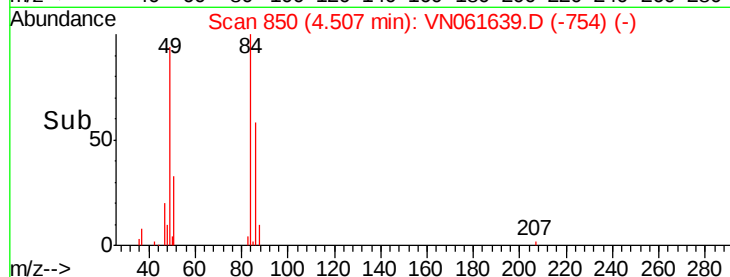
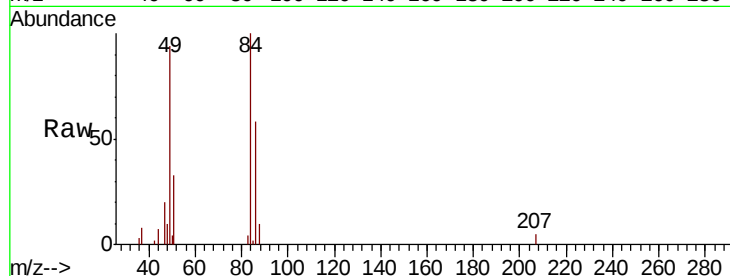
Time-->



#20
Methvlene Chloride
Concen: 5.777 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

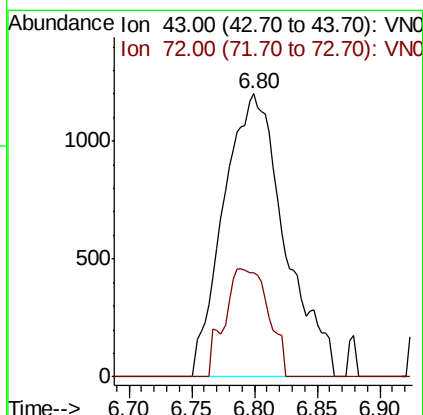
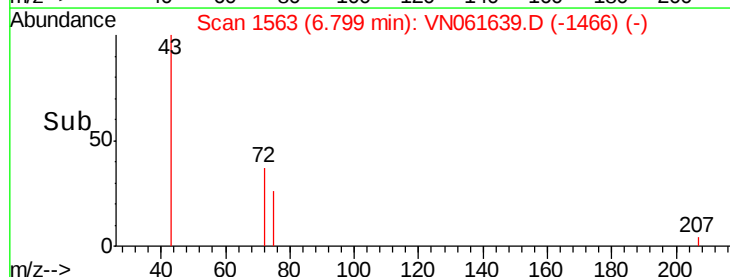
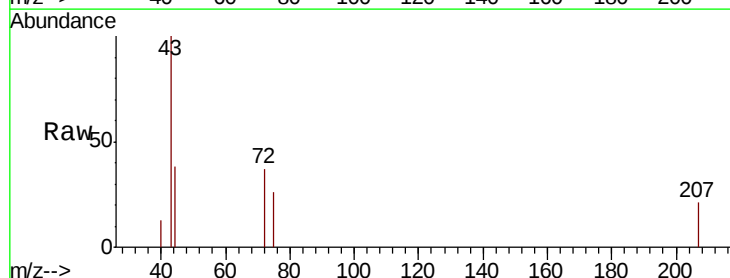
Instrument :
MSVOA_N
ClientSampled :
SP

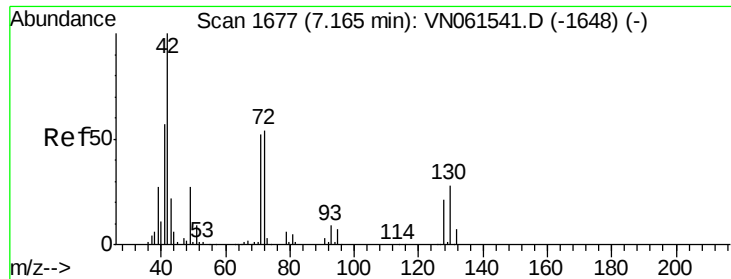
Tot Ion:	84	Resp:	23214
Ion	Ratio	Lower	Upper
84	100		
49	93.7	85.8	128.8
51	33.1	26.2	39.2
86	58.4	52.6	78.8



#25
2-Butanone
Concen: 2.466 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Tgt Ion:	43	Resp:	4080
Ion	Ratio	Lower	Upper
43	100		
72	36.6	26.0	39.0

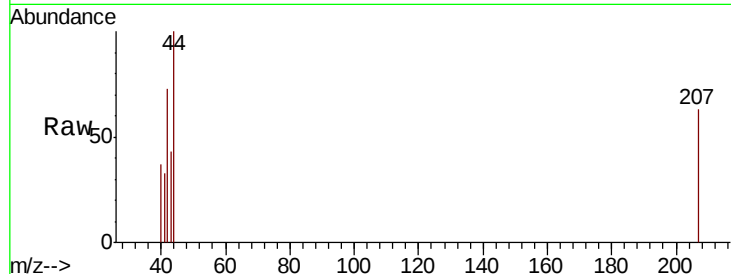




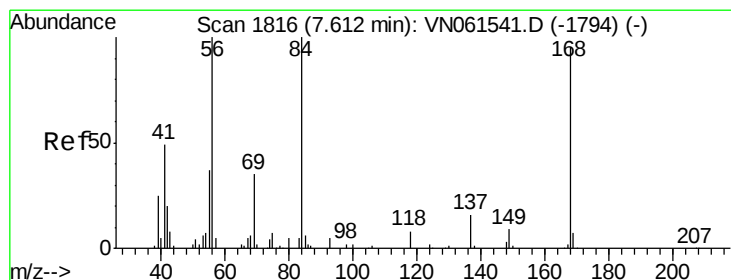
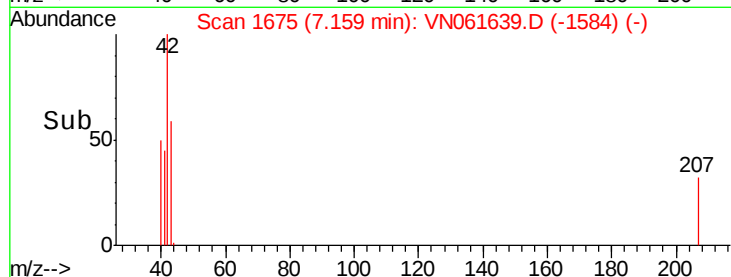
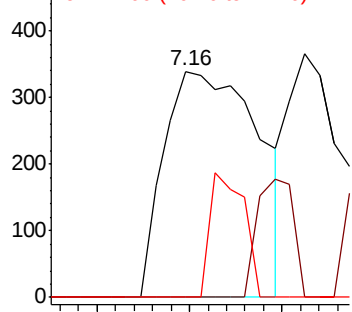
#29
Tetrahydrofuran
Concen: 0.441 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Instrument :
MSVOA_N
ClientSampled :
SP

Tot Ion: 42 Resp: 481
Ion Ratio Lower Upper
42 100
72 0.0 43.6 65.4#
71 20.0 41.2 61.8#

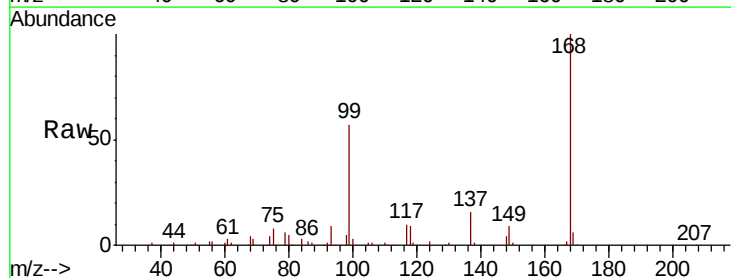


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

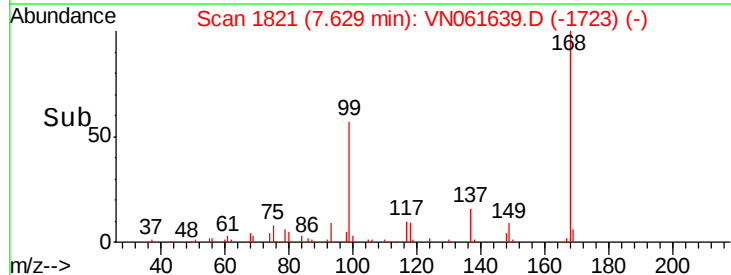
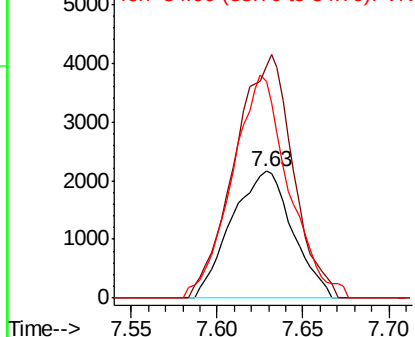


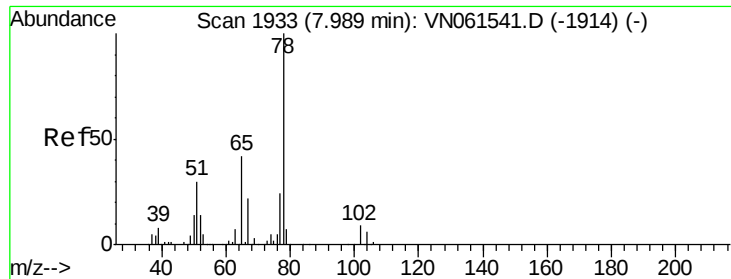
#31
Cyclohexane
Concen: 1.083 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Tgt Ion: 56 Resp: 5330
Ion Ratio Lower Upper
56 100
69 182.8 27.8 41.8#
84 162.2 79.9 119.9#



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

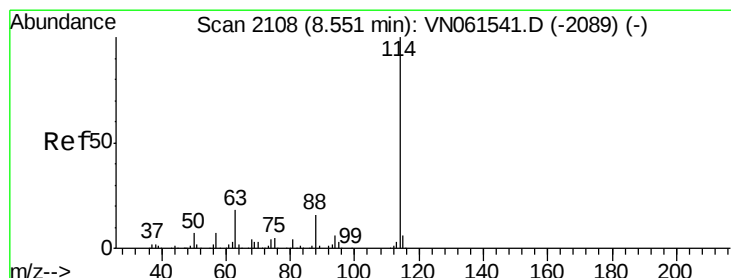
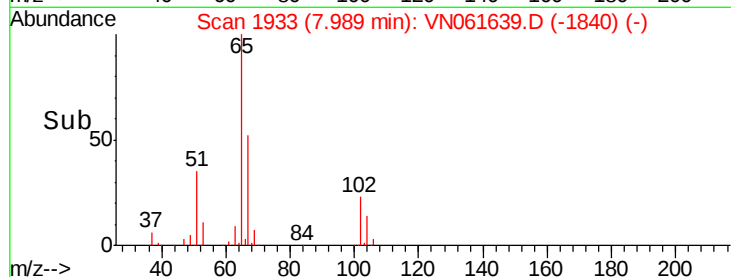
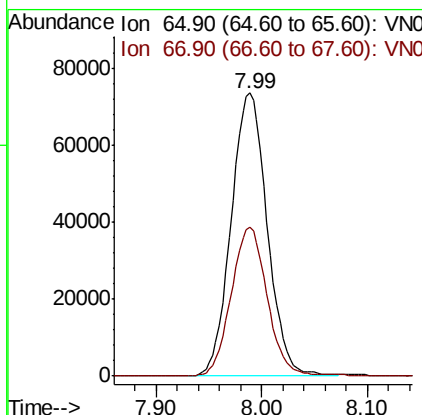
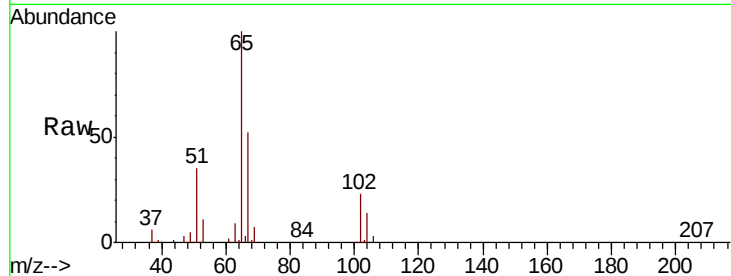




#33
 1,2-Dichloroethane-d4
 Concen: 50.157 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

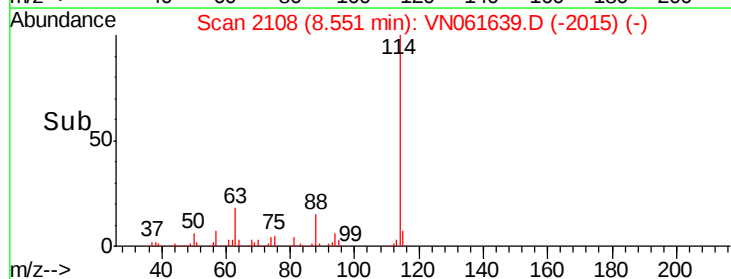
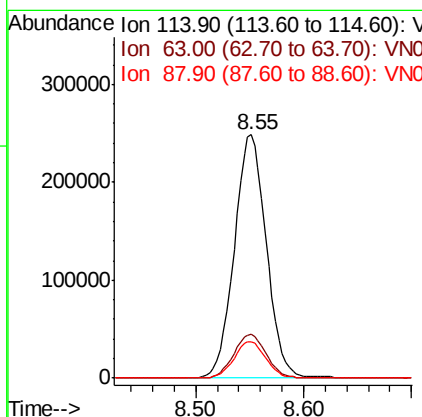
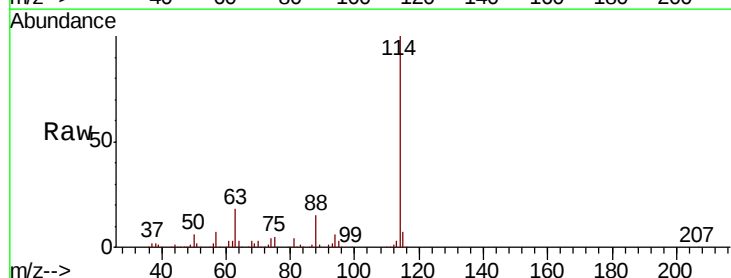
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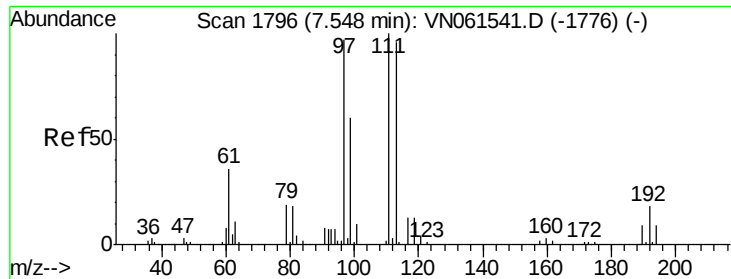
Tot Ion: 65 Resp: 175097
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

Tgt Ion: 114 Resp: 513933
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 35.8
 88 15.1 0.0 31.0

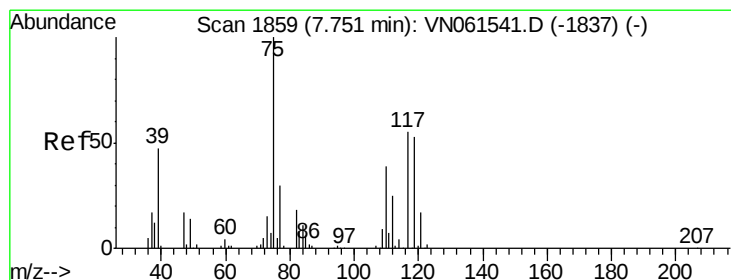
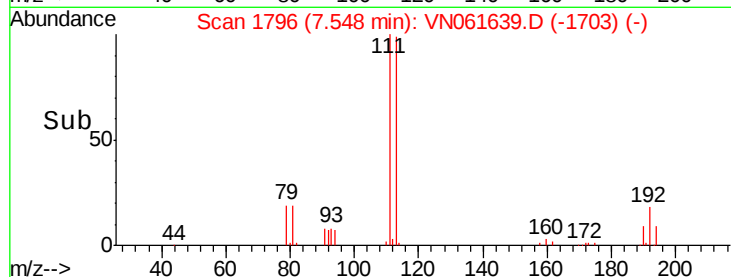
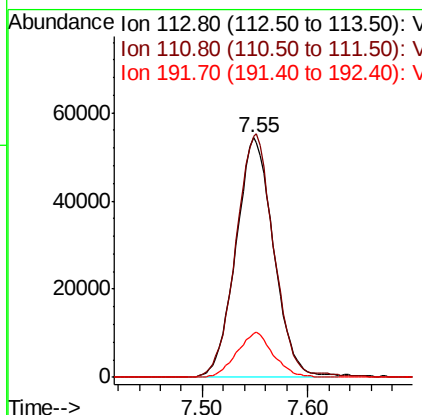
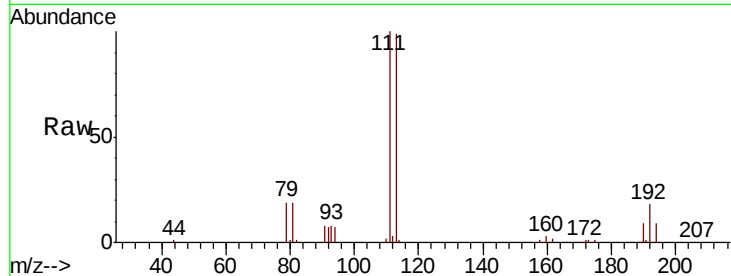




#35
 Dibromofluoromethane
 Concen: 51.913 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

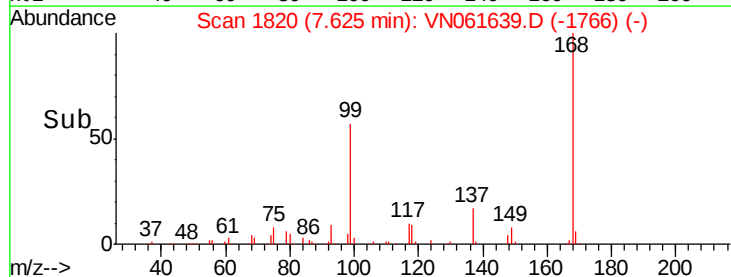
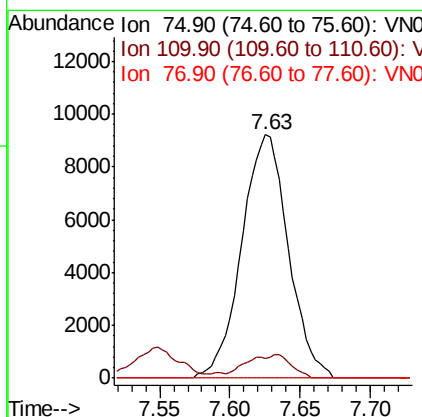
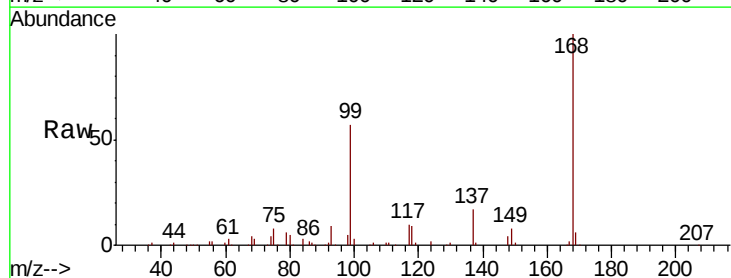
Instrument :
 MSVOA_N
 ClientSampled :
 SP

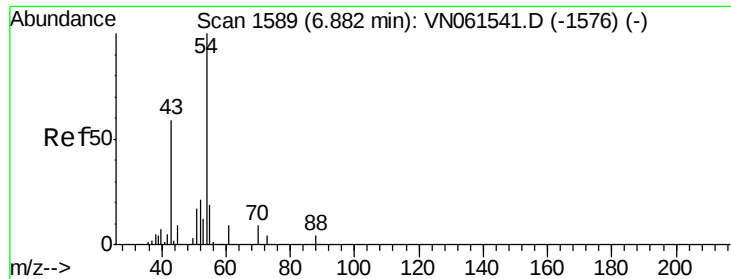
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.4	125.0
192	18.1	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.684 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.2	19.5	58.5#
77	0.0	24.7	37.1#

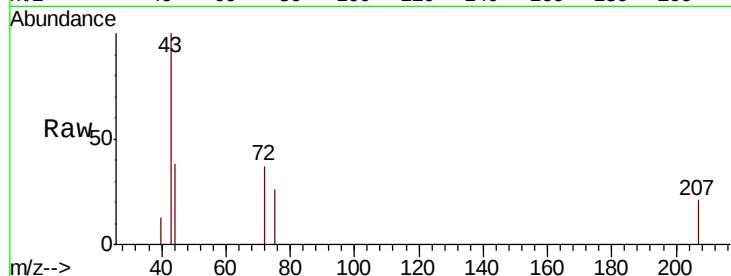




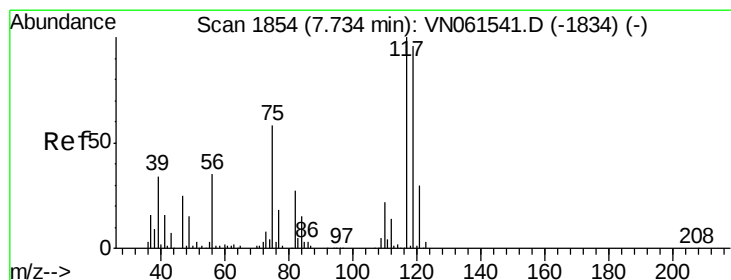
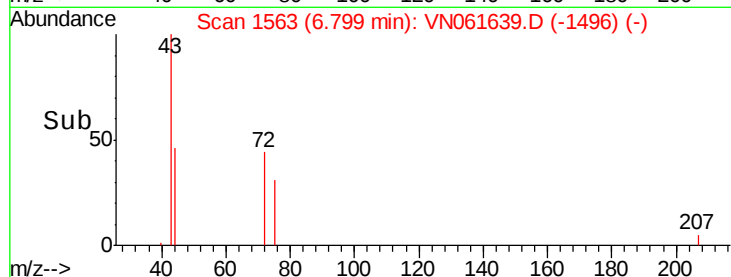
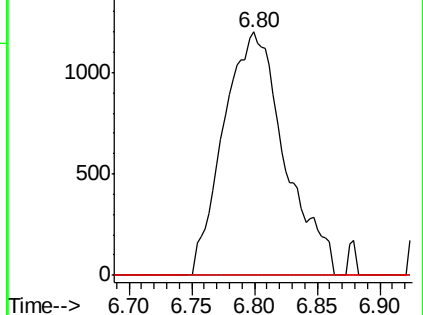
#37
Ethyl Acetate
Concen: 1.113 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.08 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Instrument :
MSVOA_N
ClientSampleId :
SP

Tot Ion: 43 Resp: 4080
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.4#
70 0.0 9.4 14.2#

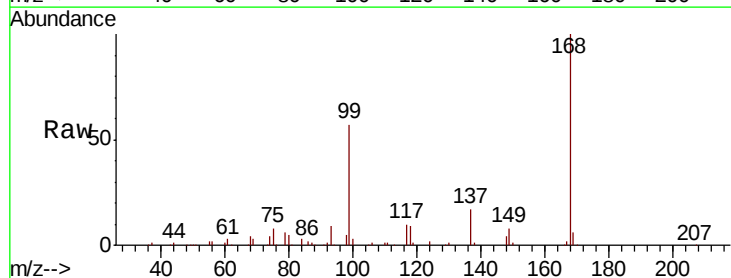


Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-1576) (-)
Ion 60.90 (60.60 to 61.60): VN061541.D (-1576) (-)
Ion 70.00 (69.70 to 70.70): VN061541.D (-1576) (-)

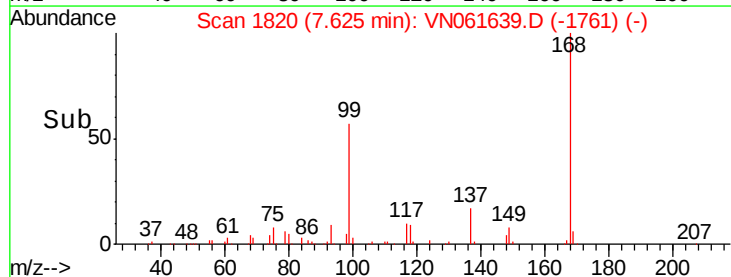
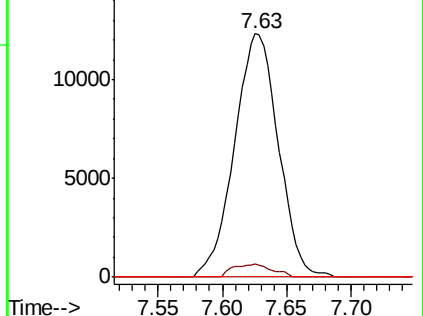


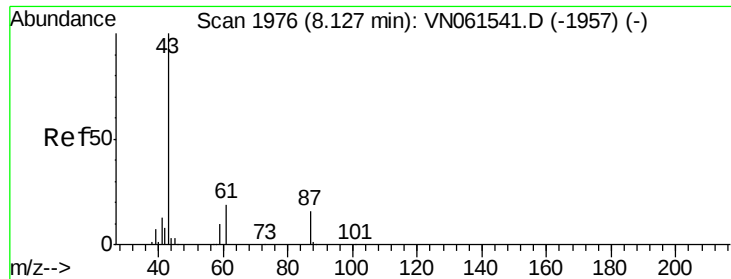
#38
Carbon Tetrachloride
Concen: 6.638 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Tgt Ion: 117 Resp: 29131
Ion Ratio Lower Upper
117 100
119 5.3 76.5 114.7#
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): VN061541.D (-1834) (-)
Ion 118.80 (118.50 to 119.50): VN061541.D (-1834) (-)
Ion 120.80 (120.50 to 121.50): VN061541.D (-1834) (-)



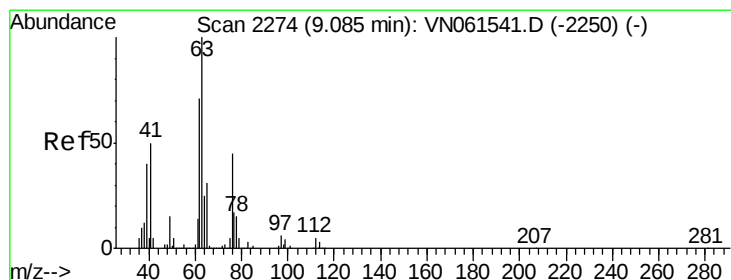
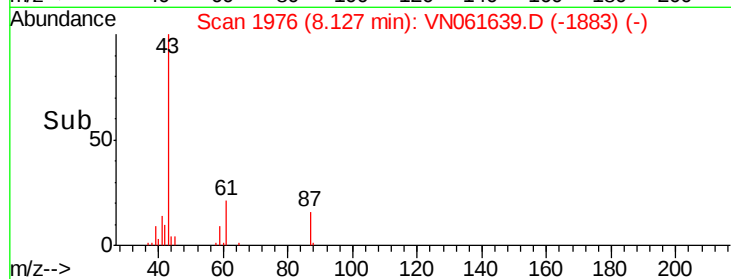
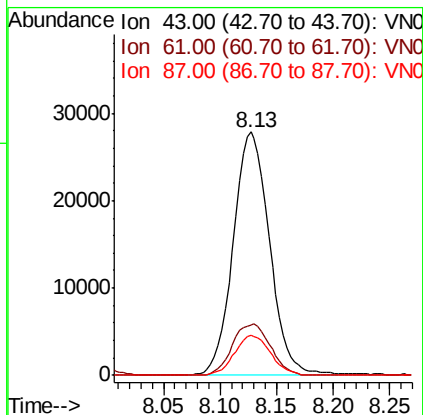
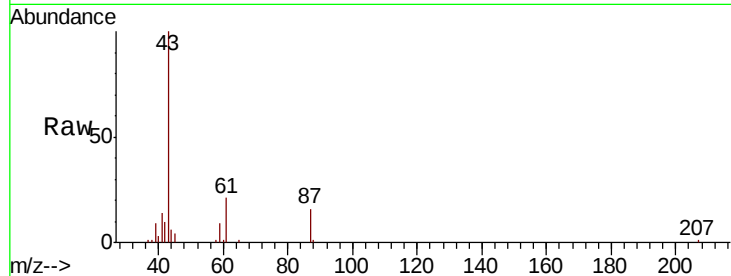


#43

Isopropyl Acetate
 Concen: 9.463 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 SP

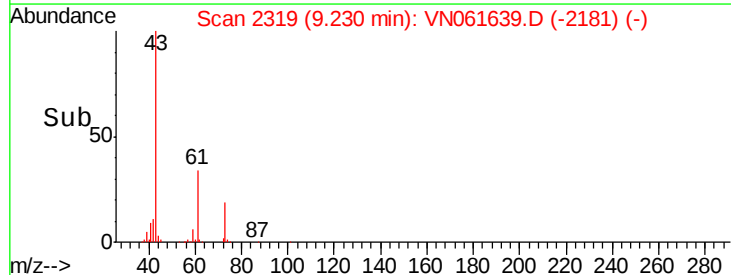
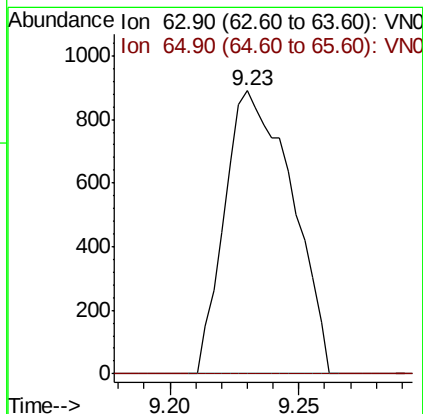
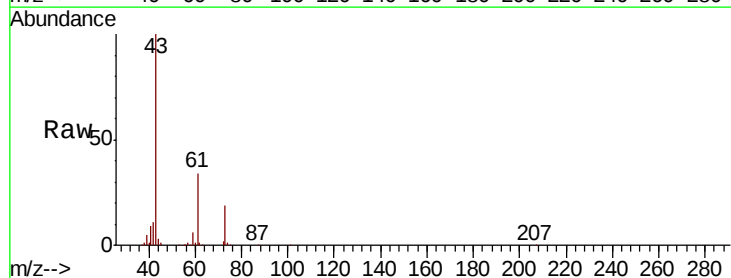
Tot Ion: 43 Resp: 62390
 Ion Ratio Lower Upper
 43 100
 61 22.0 23.6 35.4#
 87 16.3 13.0 19.6

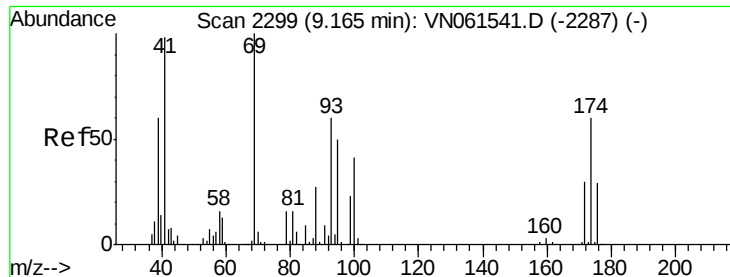


#45

1,2-Dichloropropane
 Concen: 0.486 ug/l
 RT: 9.23 min Scan# 2319
 Delta R.T. 0.14 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

Tgt Ion: 63 Resp: 1620
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#

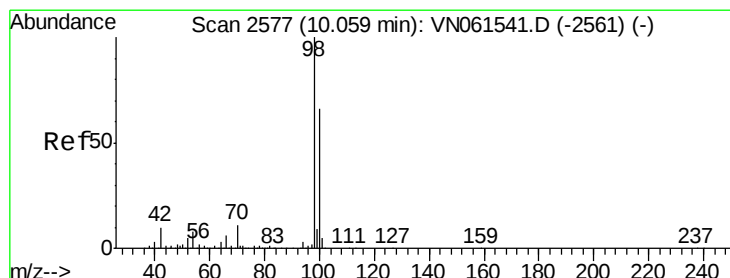
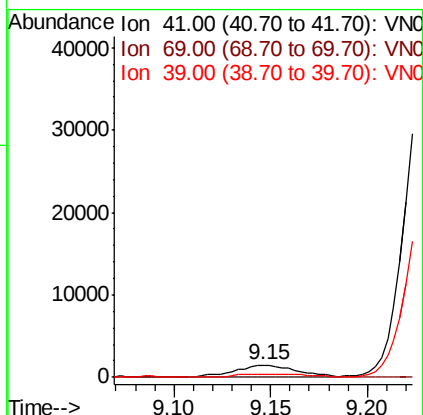
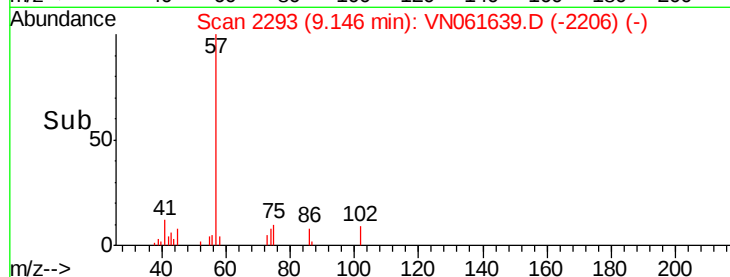
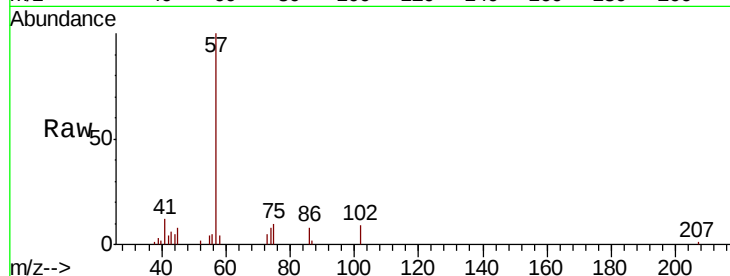




#48
Methvl methacrylate
Concen: 1.110 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

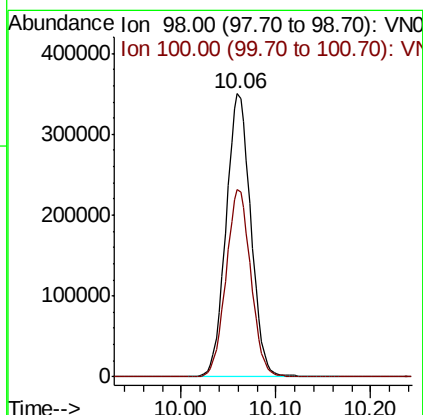
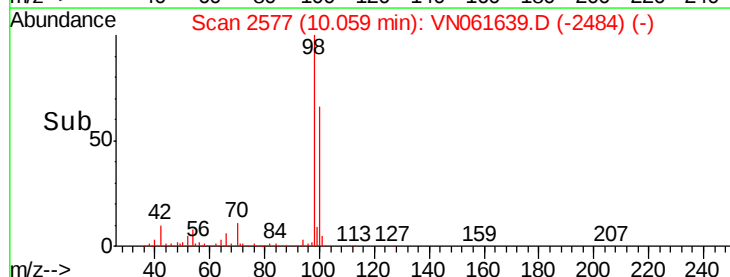
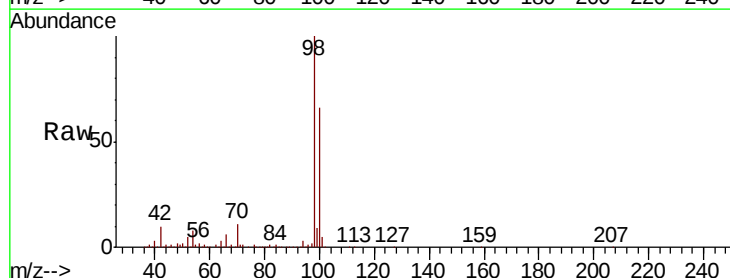
Instrument :
MSVOA_N
ClientSampled :
SP

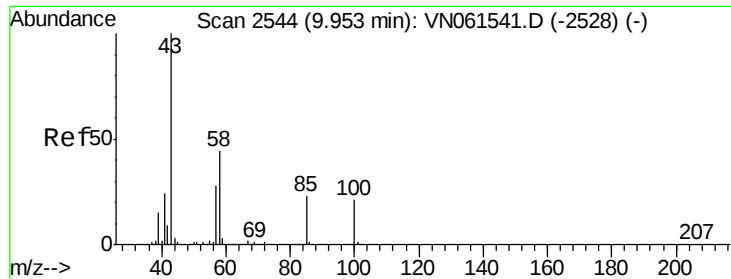
Tot Ion: 41 Resp: 3292
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#50
Toluene-d8
Concen: 52.735 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Tgt Ion: 98 Resp: 637122
Ion Ratio Lower Upper
98 100
100 66.4 52.8 79.2

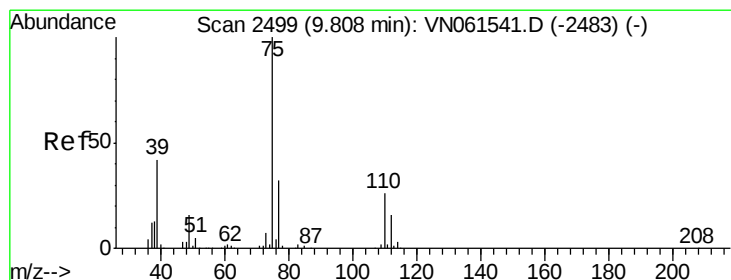
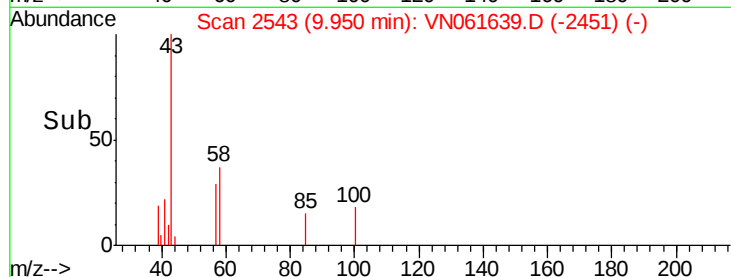
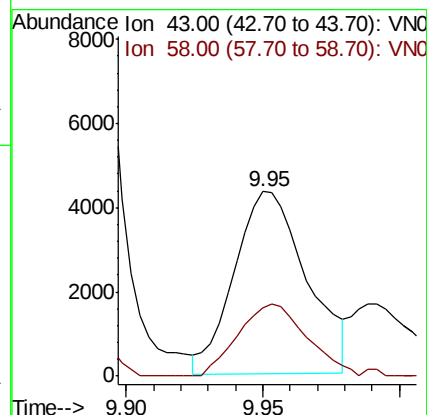
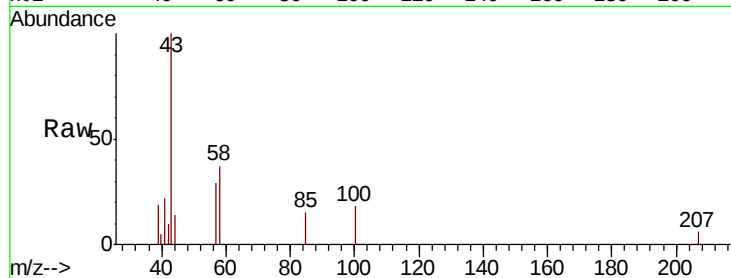




#51
 4-Methyl-2-Pentanone
 Concen: 2.147 ug/l
 RT: 9.95 min Scan# 2543
 Delta R.T. -0.00 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

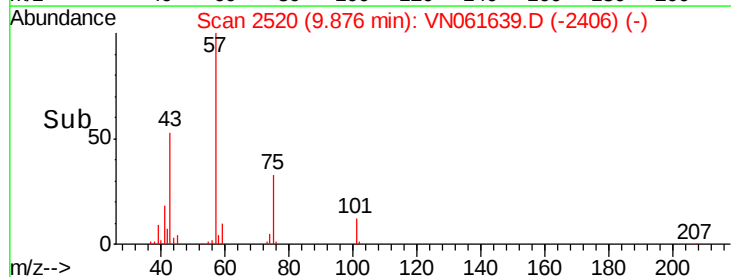
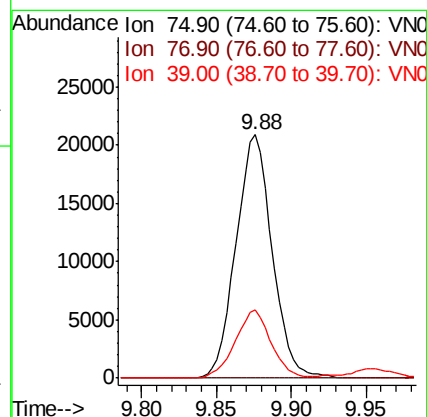
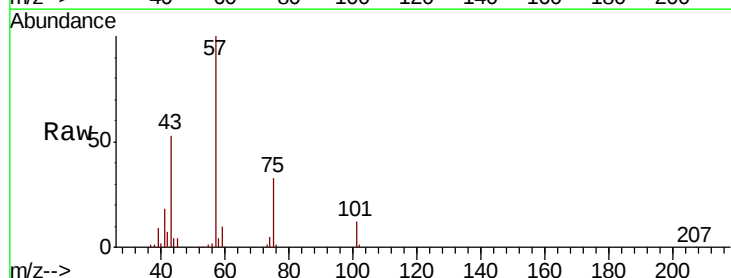
Instrument :
 MSVOA_N
 ClientSampled :
 SP

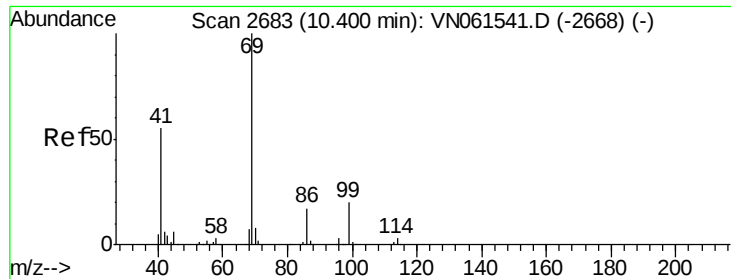
Tot Ion: 43 Resp: 7975
 Ion Ratio Lower Upper
 43 100
 58 37.5 35.0 52.6



#54
 cis-1,3-Dichloropropene
 Concen: 6.004 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

Tgt Ion: 75 Resp: 35226
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 27.8 33.8 50.6#





#56

Ethyl methacrylate

Concen: 0.216 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN061639.D

Acq: 3 Jun 2020 15:32

Instrument :

MSVOA_N

ClientSampleId :

SP

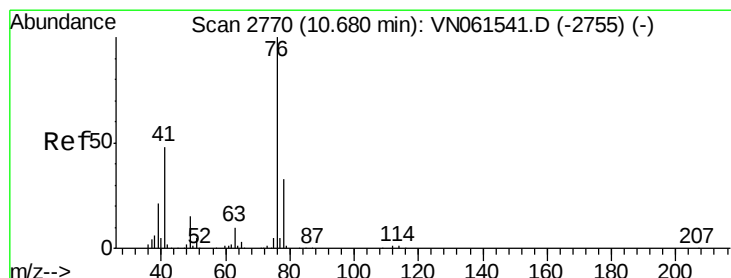
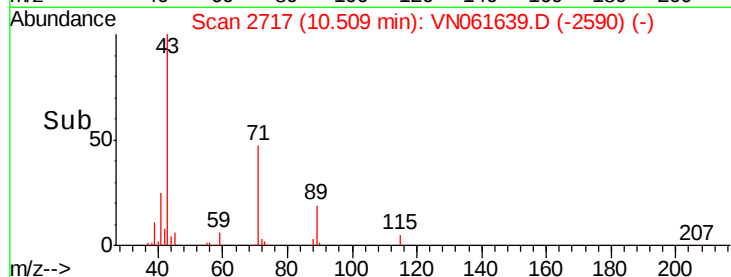
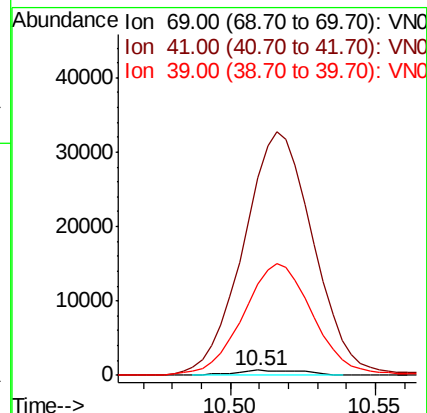
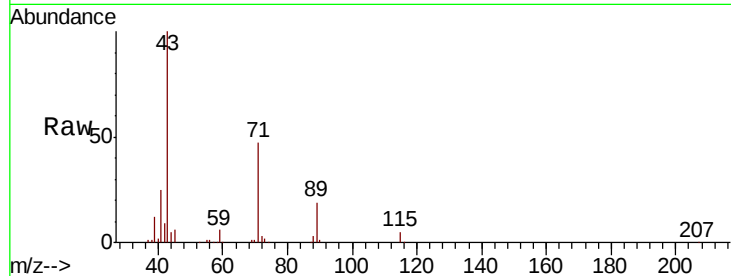
Tot Ion: 69 Resp: 1100

Ion Ratio Lower Upper

69 100

41 5028.9 43.5 65.3#

39 2285.4 27.0 40.6#



#57

1,3-Dichloropropane

Concen: 0.944 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061639.D

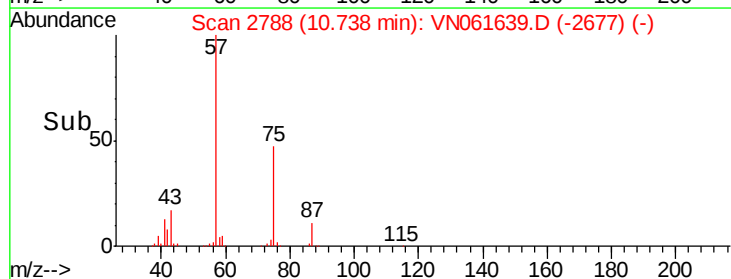
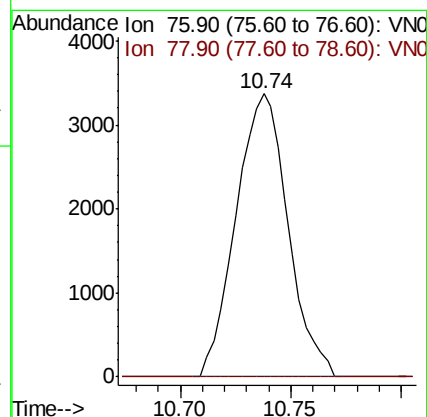
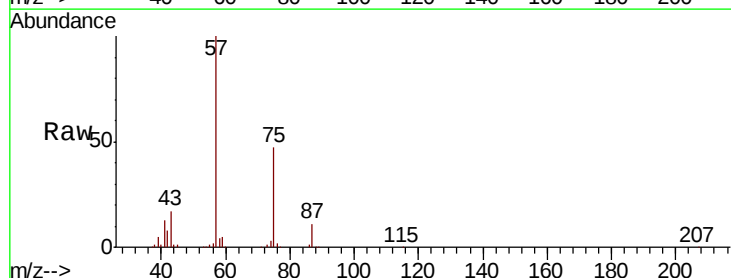
Acq: 3 Jun 2020 15:32

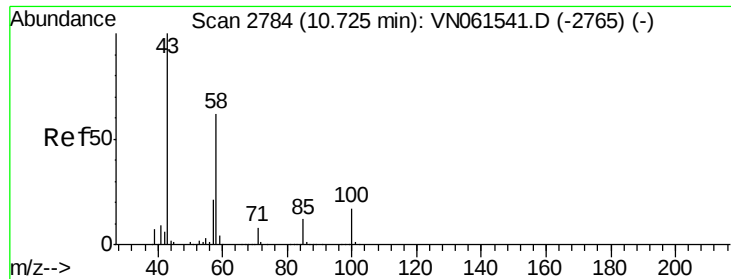
Tgt Ion: 76 Resp: 5513

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

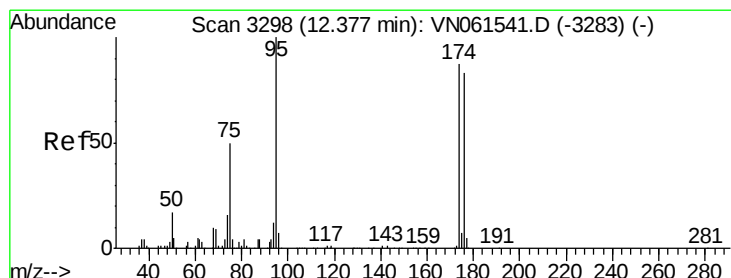
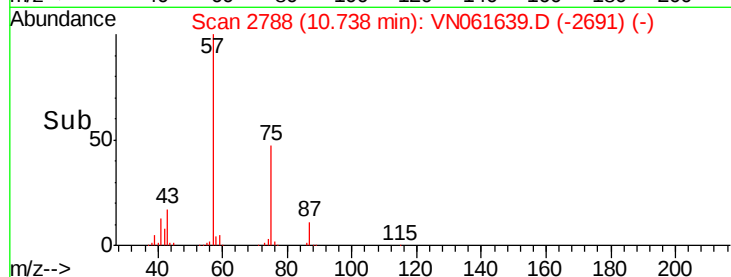
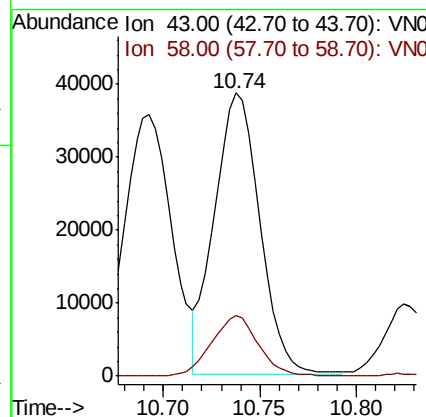
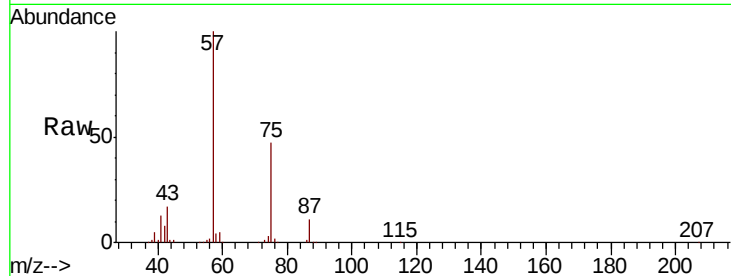




#59
2-Hexanone
Concen: 23.788 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

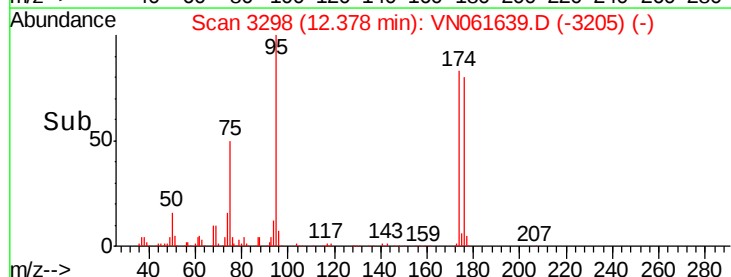
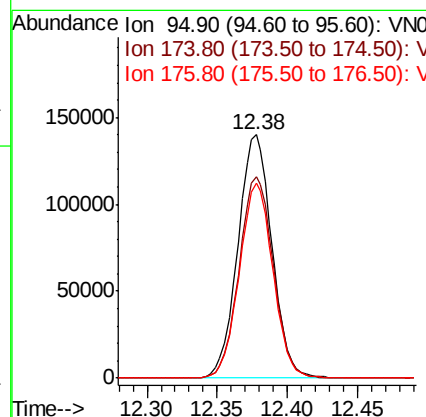
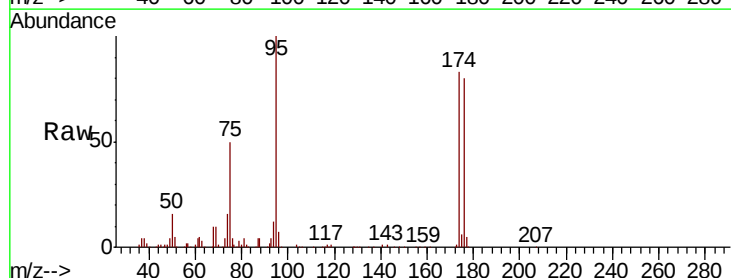
Instrument :
MSVOA_N
ClientSampled :
SP

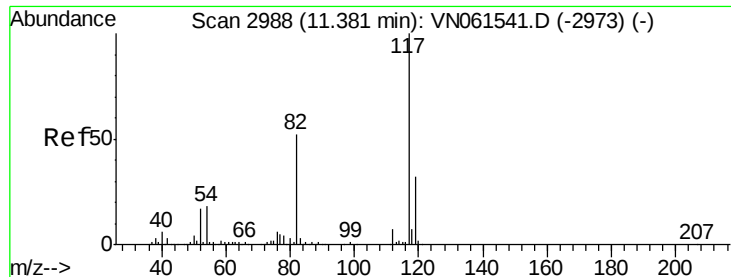
Tot Ion: 43 Resp: 63469
Ion Ratio Lower Upper
43 100
58 21.8 30.7 92.1#



#62
4-Bromofluorobenzene
Concen: 53.685 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Tgt Ion: 95 Resp: 236631
Ion Ratio Lower Upper
95 100
174 83.8 0.0 172.8
176 79.4 0.0 164.8

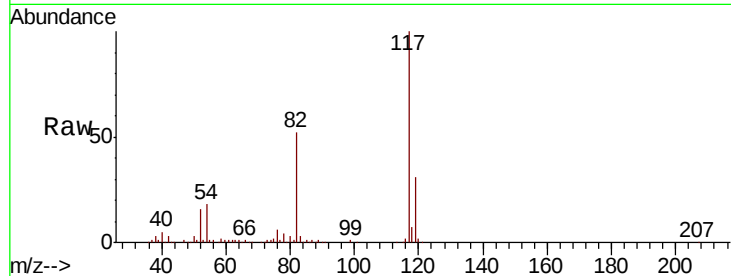




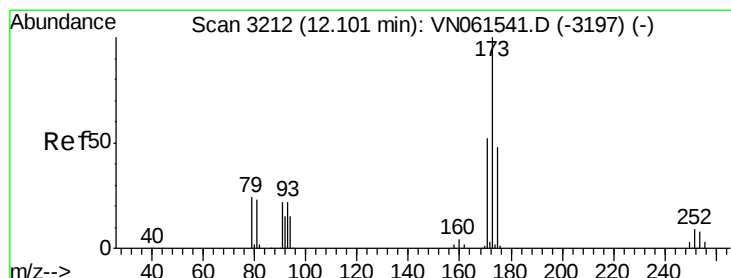
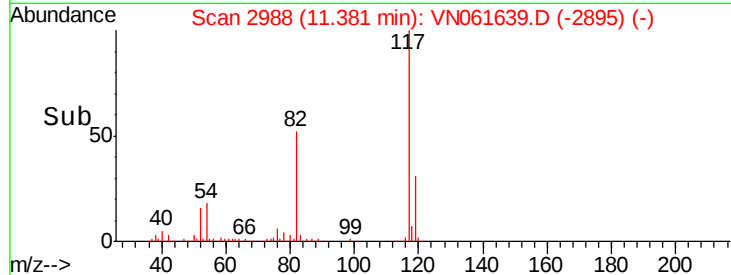
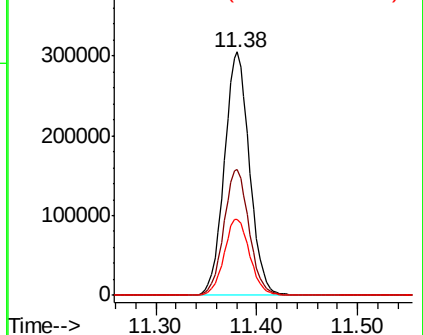
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Instrument :
MSVOA_N
ClientSampleId :
SP

Tot Ion:117 Resp: 530860
Ion Ratio Lower Upper
117 100
82 51.7 41.5 62.3
119 31.4 25.6 38.4

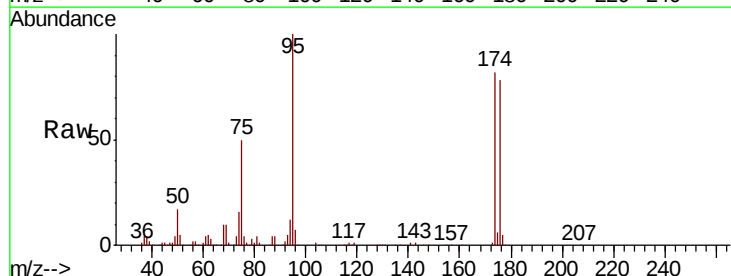


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

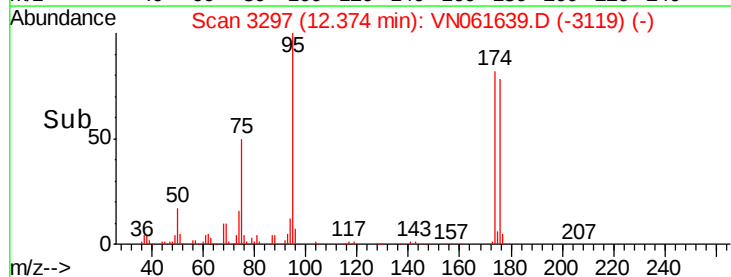
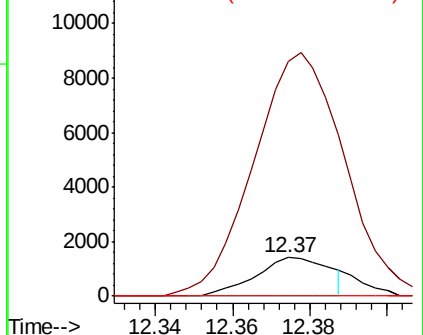


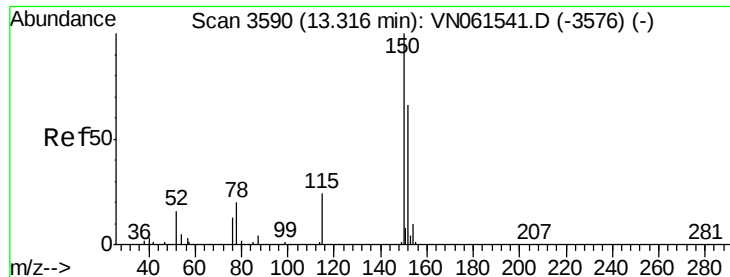
#71
Bromoform
Concen: 0.593 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061639.D
Acq: 3 Jun 2020 15:32

Tgt Ion:173 Resp: 1877
Ion Ratio Lower Upper
173 100
175 664.5 24.4 73.2#
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: VN061639.D

Acq: 3 Jun 2020 15:32

Instrument :

MSVOA_N

ClientSampleId :

SP

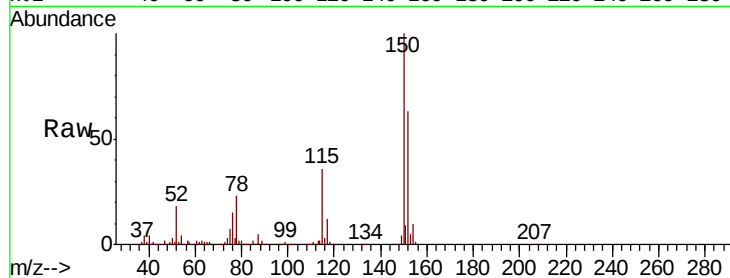
Tot Ion:152 Resp: 237128

Ion Ratio Lower Upper

152 100

115 57.7 28.0 84.0

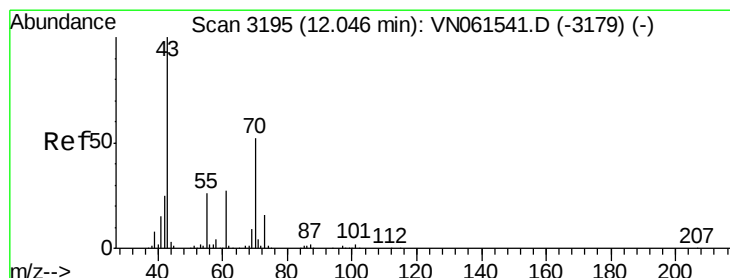
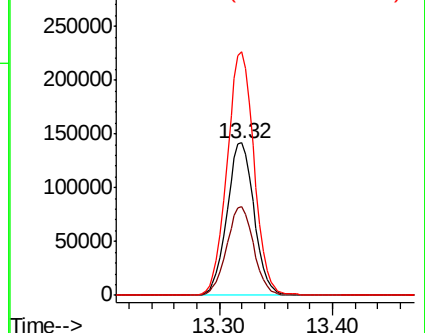
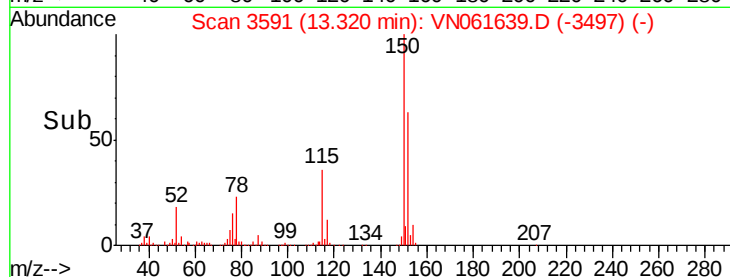
150 158.9 0.0 344.0



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: 0.400 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061639.D

Acq: 3 Jun 2020 15:32

Tgt Ion: 43 Resp: 2180

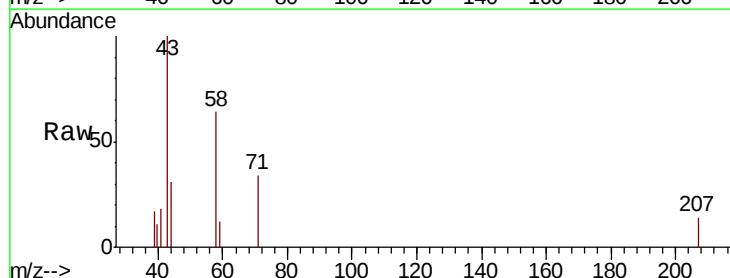
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 4.4 20.6 31.0#

61 0.0 21.8 32.6#

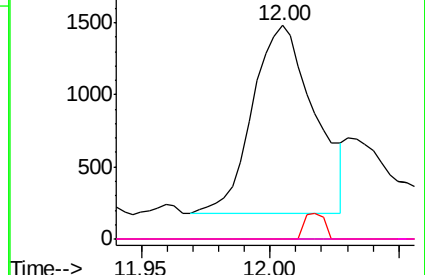
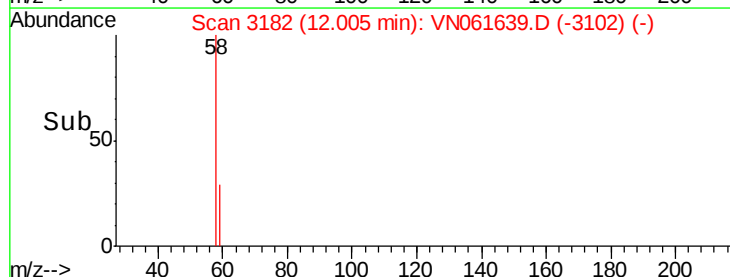


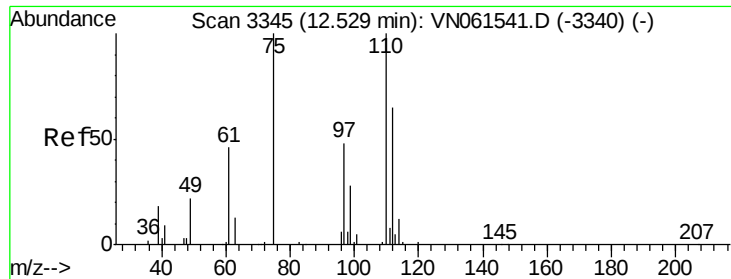
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

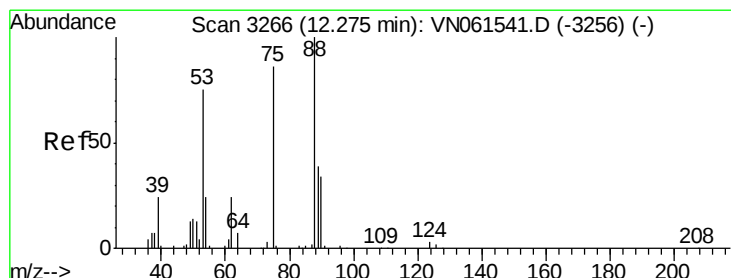
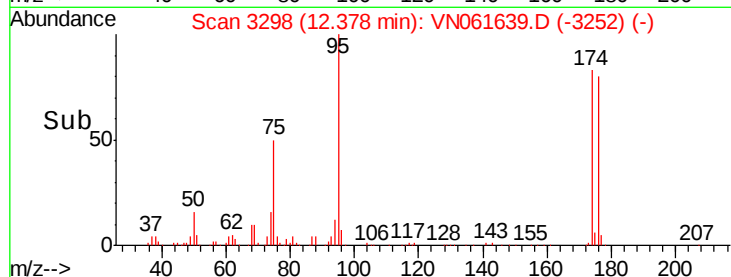
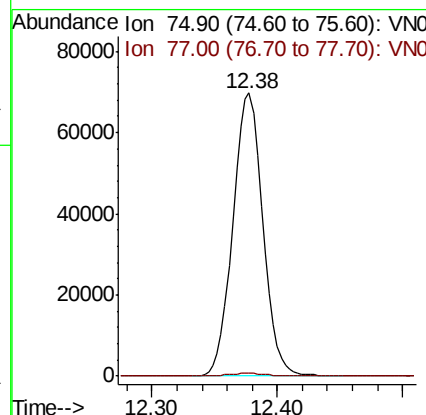
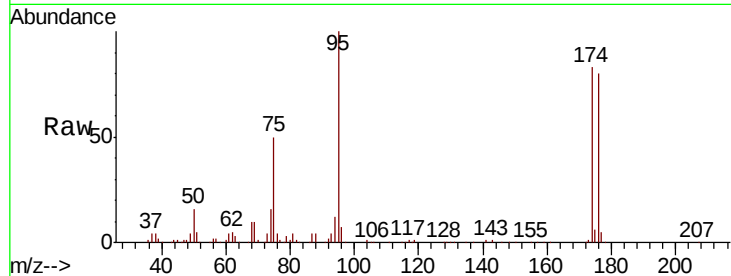




#76
 1,2,3-Trichloropropane
 Concen: 26.806 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

Instrument :
 MSVOA_N
 ClientSampled :
 SP

Tot Ion: 75 Resp: 115583
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.549 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061639.D
 Acq: 3 Jun 2020 15:32

Tgt Ion: 75 Resp: 115583
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

