

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063064.D
 Acq On : 21 Aug 2020 3:41
 Operator : JC/MD
 Sample : L3698-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 39-OWS-081320

Quant Time: Aug 21 06:42:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	147698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	243001	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	252077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	91731	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	97839	55.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.78%	
35) Dibromofluoromethane	7.55	113	85587	54.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.10%	
50) Toluene-d8	10.06	98	311163	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
62) 4-Bromofluorobenzene	12.38	95	103974	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	

Target Compounds

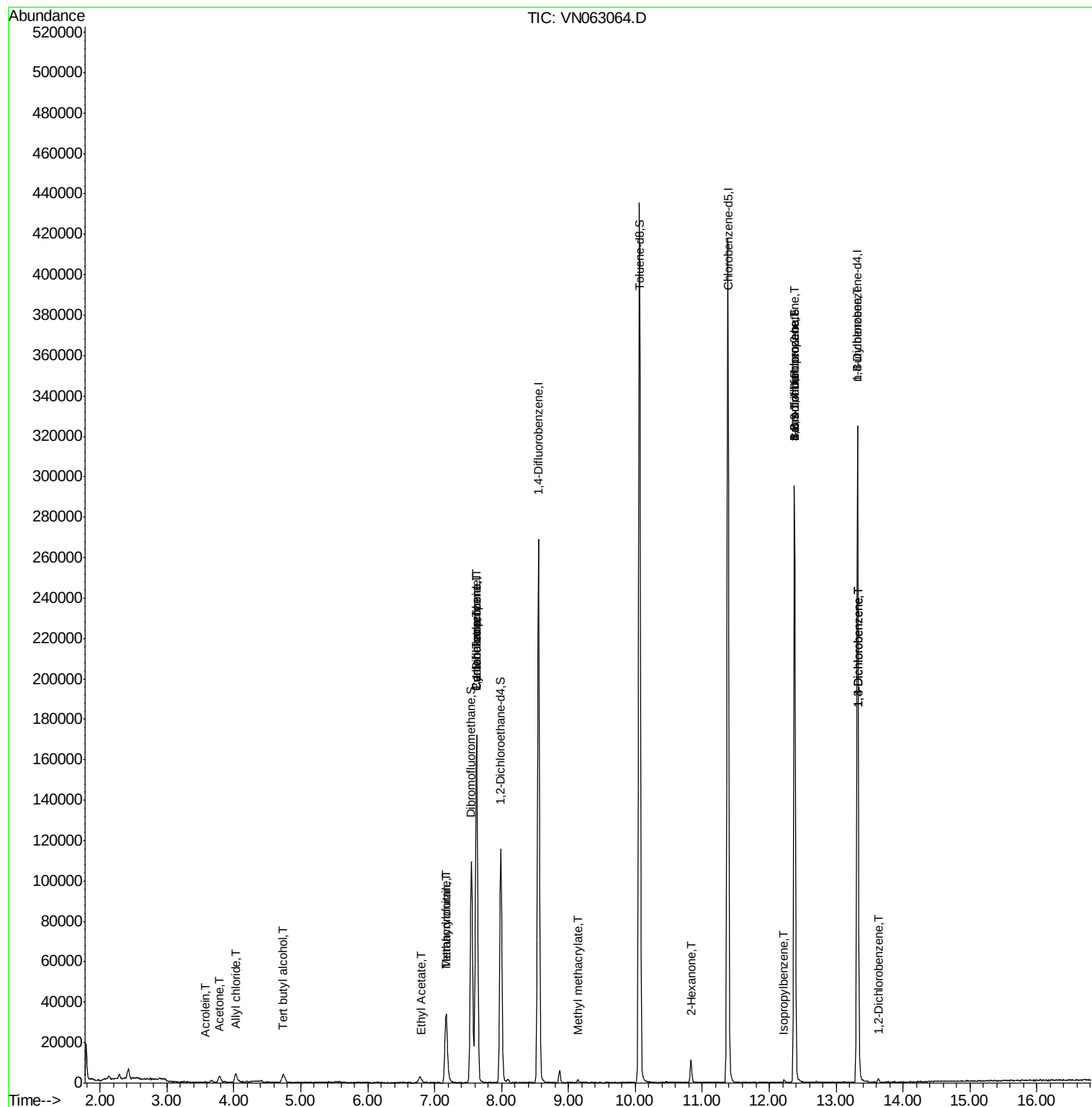
						Qvalue
11) Tert butyl alcohol	4.73	59	7794	31.434	ug/l #	93
13) Acrolein	3.58	56	173	2.227	ug/l #	13
14) Allyl chloride	4.03	41	763	0.345	ug/l #	68
16) Acetone	3.79	43	6001	7.184	ug/l	96
20) Methylene Chloride	4.50	84	67	Below Cal	#	9
29) Tetrahydrofuran	7.17	42	28369	47.298	ug/l	99
31) Cyclohexane	7.63	56	2728	1.057	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	10537	4.920	ug/l #	50
37) Ethyl Acetate	6.81	43	531	0.265	ug/l #	68
38) Carbon Tetrachloride	7.63	117	13382	6.190	ug/l #	17
41) Methacrylonitrile	7.17	41	17503	18.308	ug/l #	38
48) Methyl methacrylate	9.14	41	454	0.289	ug/l #	28
59) 2-Hexanone	10.83	43	2466	1.683	ug/l #	23
71) Bromoform	12.38	173	1005	0.641	ug/l #	1
73) Isopropylbenzene	12.22	105	1409	0.224	ug/l	88
76) 1,2,3-Trichloropropane	12.38	75	50119	28.109	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	50119	77.199	ug/l #	15
87) 1,3-Dichlorobenzene	13.34	146	1434	0.483	ug/l #	36
88) 1,4-Dichlorobenzene	13.34	146	1434	0.476	ug/l #	37
89) n-Butylbenzene	13.33	91	131	2.795	ug/l #	34
91) 1,2-Dichlorobenzene	13.63	146	996	0.347	ug/l	80

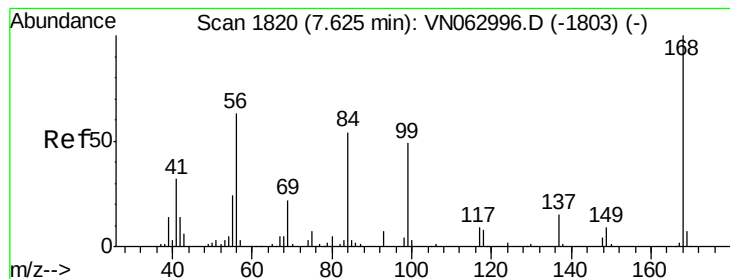
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

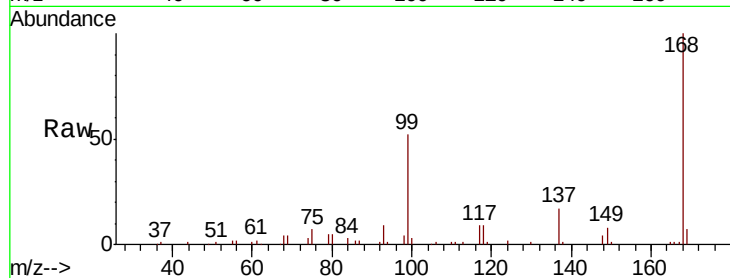
39-OWS-081320

Tot Ion:168 Resp: 147698

Ion Ratio Lower Upper

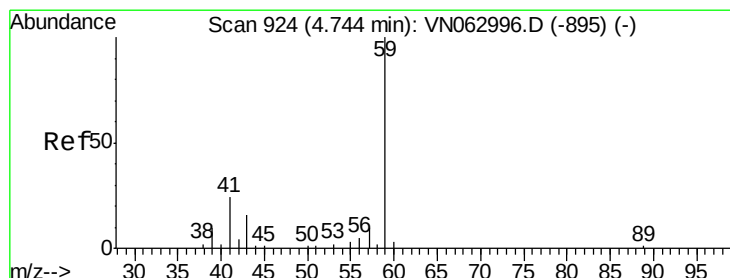
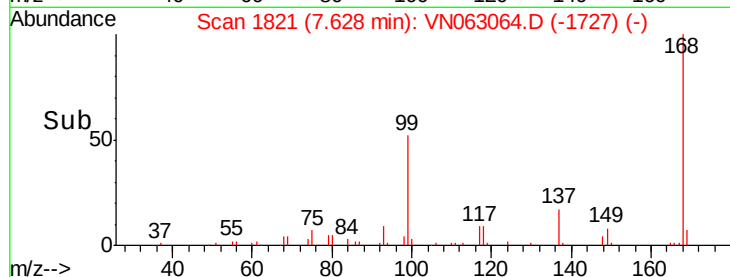
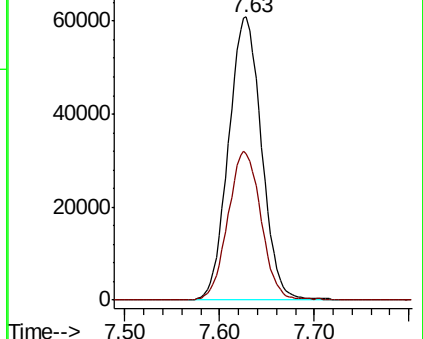
168 100

99 51.8 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 31.434 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.01 min

Lab File: VN063064.D

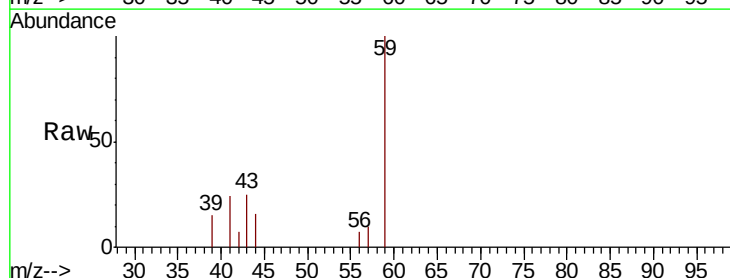
Acq: 21 Aug 2020 3:41

Tgt Ion: 59 Resp: 7794

Ion Ratio Lower Upper

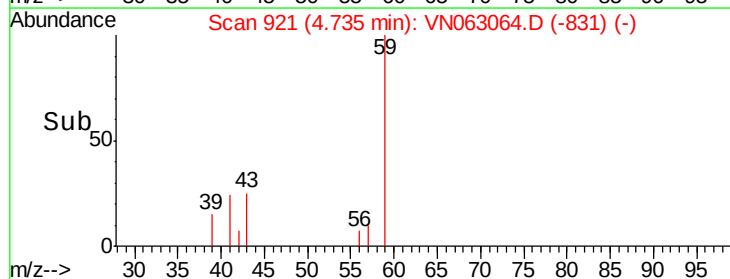
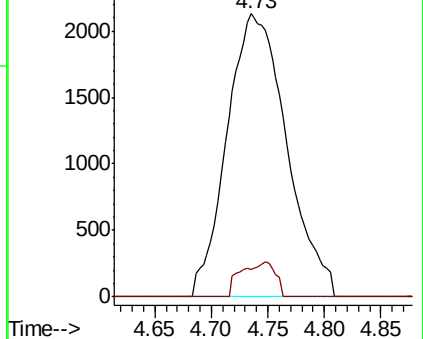
59 100

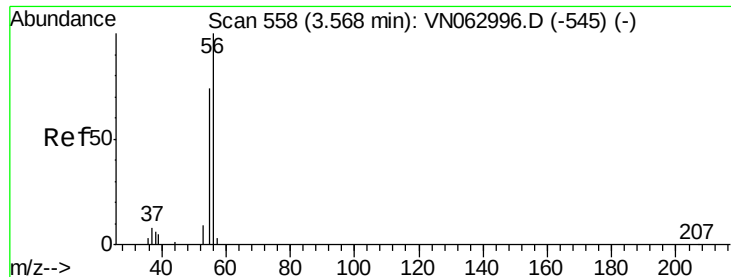
57 7.1 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#13

Acrolein

Concen: 2.227 ug/l

RT: 3.58 min Scan# 561

Delta R.T. 0.01 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

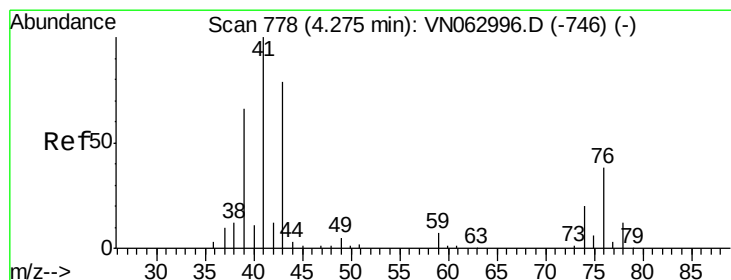
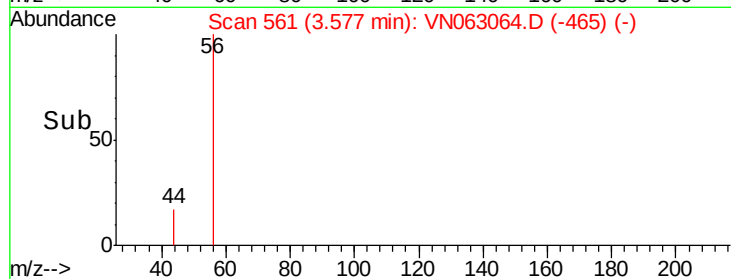
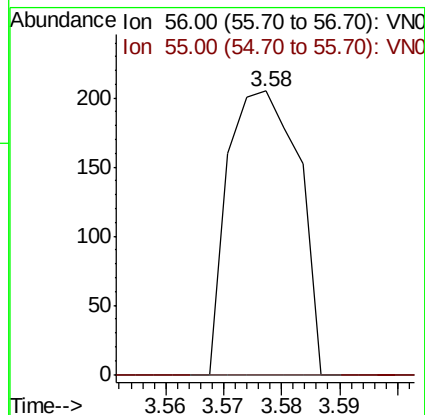
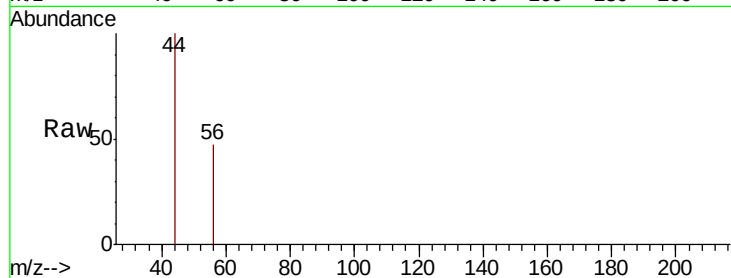
39-OWS-081320

Tot Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#14

Allyl chloride

Concen: 0.345 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.24 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

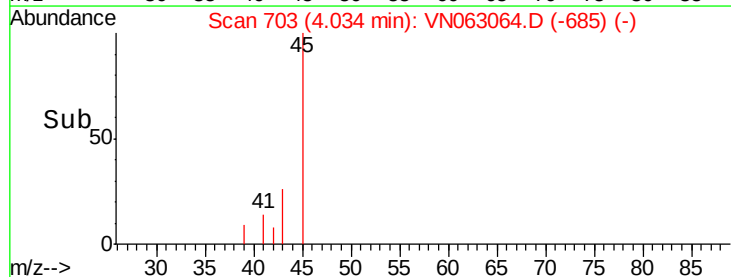
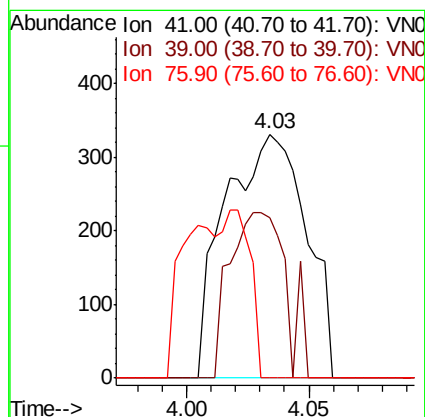
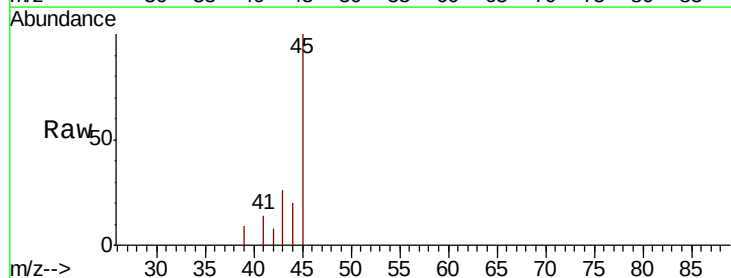
Tgt Ion: 41 Resp: 763

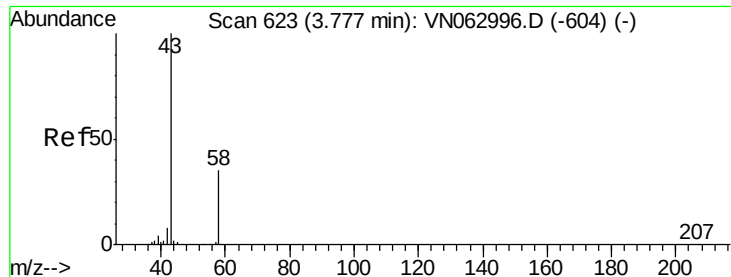
Ion Ratio Lower Upper

41 100

39 47.4 47.9 71.9#

76 0.0 27.0 40.6#





#16

Acetone

Concen: 7.184 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

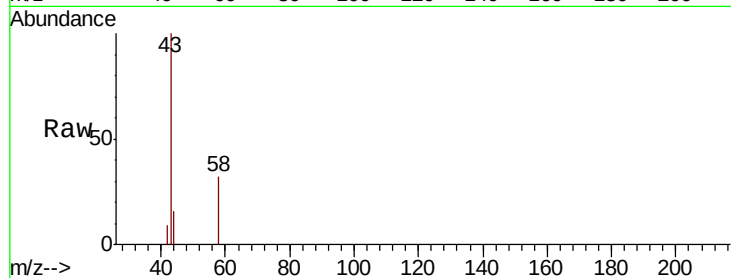
39-OWS-081320

Tot Ion: 43 Resp: 6001

Ion Ratio Lower Upper

43 100

58 32.4 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-604) (-)

3.79

2500

2000

1500

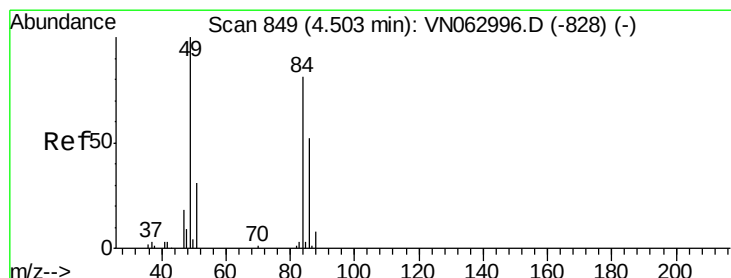
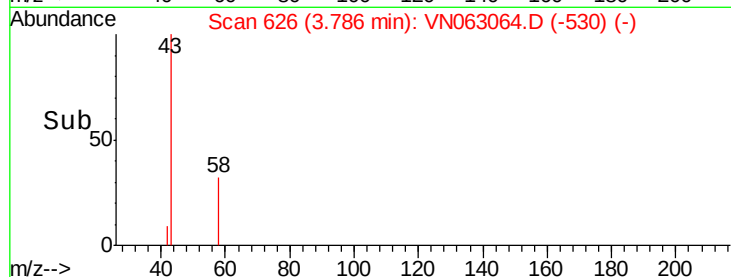
1000

500

0

3.70 3.75 3.80 3.85

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 849

Delta R.T. 0.00 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Tgt Ion: 84 Resp: 67

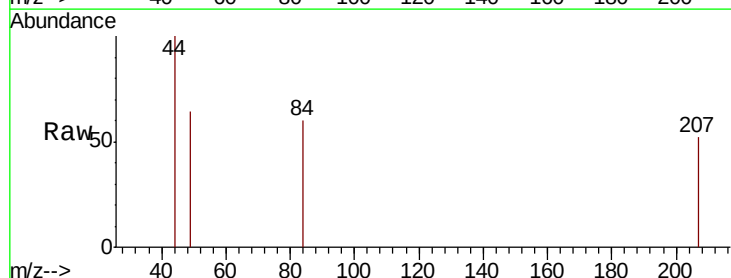
Ion Ratio Lower Upper

84 100

49 5.1 98.7 148.1#

51 0.0 30.8 46.2#

86 0.0 51.2 76.8#



Abundance Ion 83.90 (83.60 to 84.60): VN062996.D (-828) (-)

Ion 48.90 (48.60 to 49.60): VN062996.D (-828) (-)

Ion 50.90 (50.60 to 51.60): VN062996.D (-828) (-)

Ion 85.90 (85.60 to 86.60): VN062996.D (-828) (-)

4.50

300

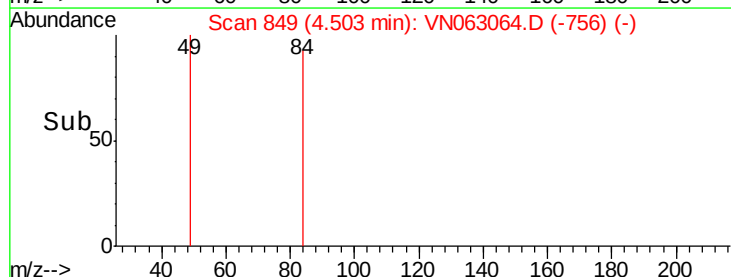
200

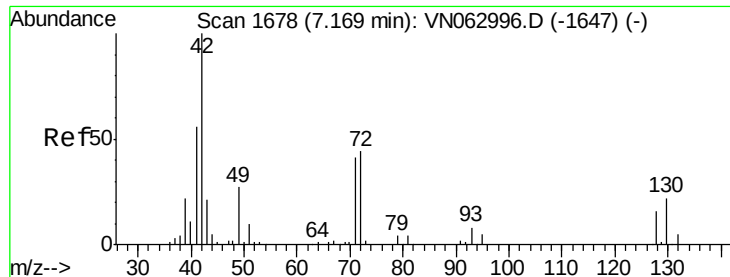
100

0

4.49 4.50 4.51

Time-->

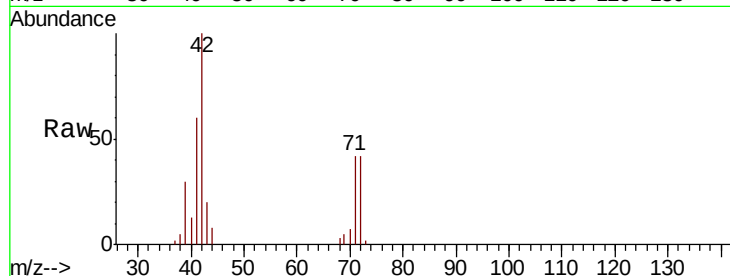




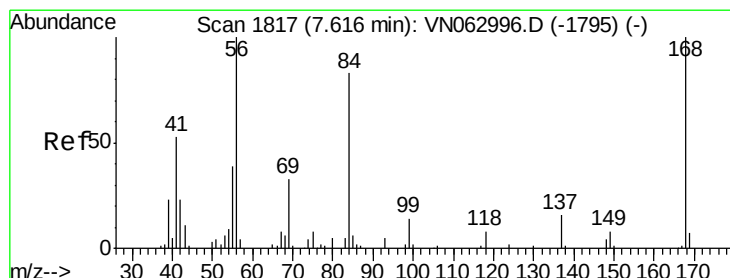
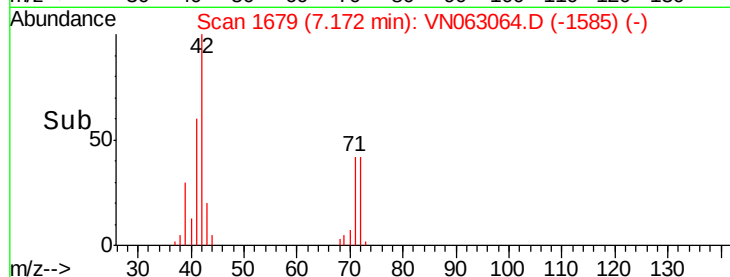
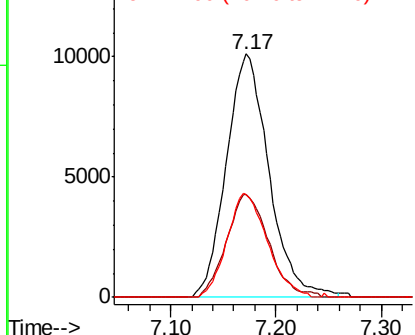
#29
Tetrahydrofuran
Concen: 47.298 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

Instrument :
MSVOA_N
ClientSampled :
39-OWS-081320

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	34.6	52.0
71	40.5	32.3	48.5

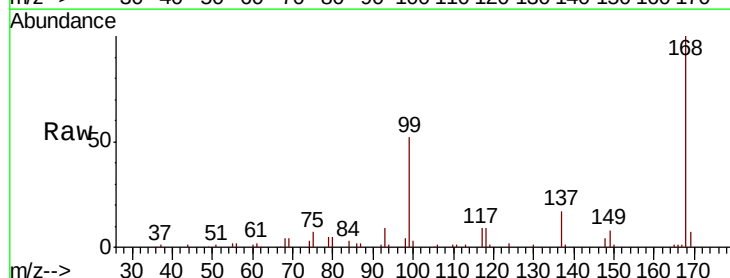


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

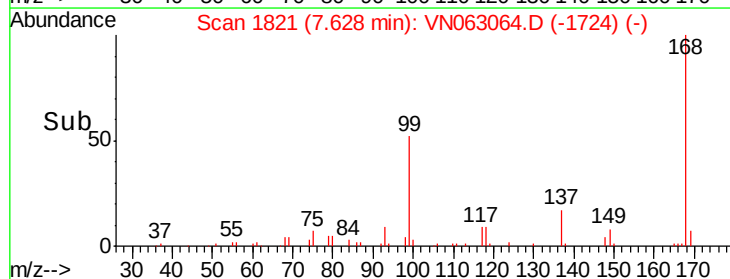
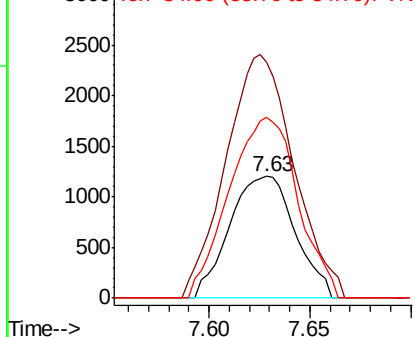


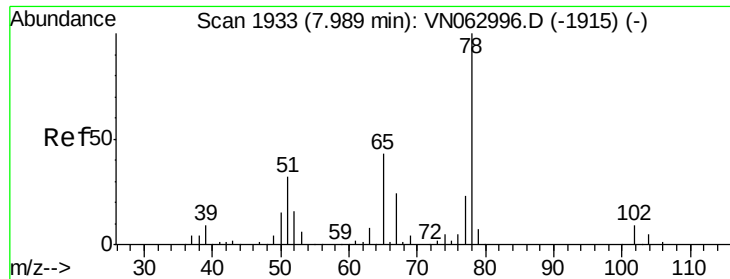
#31
Cyclohexane
Concen: 1.057 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.01 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

Tgt Ion	Ratio	Lower	Upper
56	100		
69	179.8	26.6	40.0#
84	149.0	66.4	99.6#



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

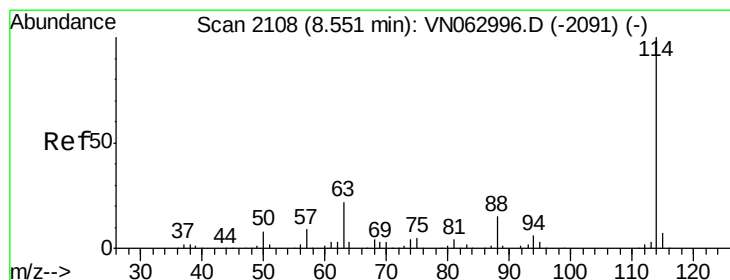
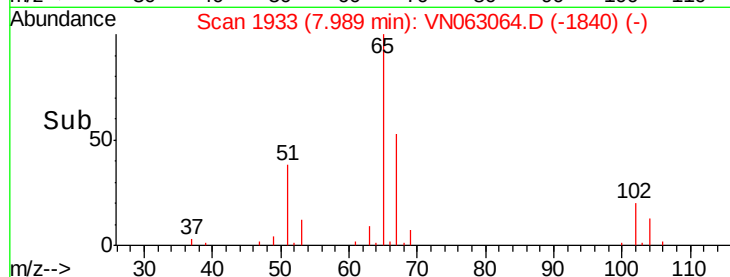
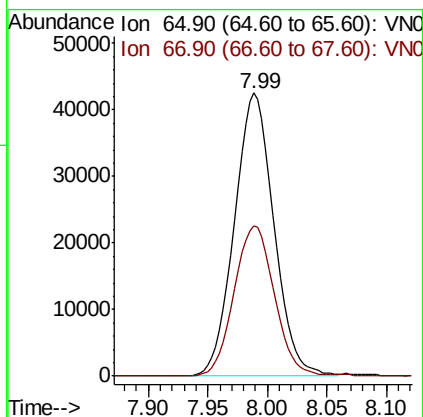
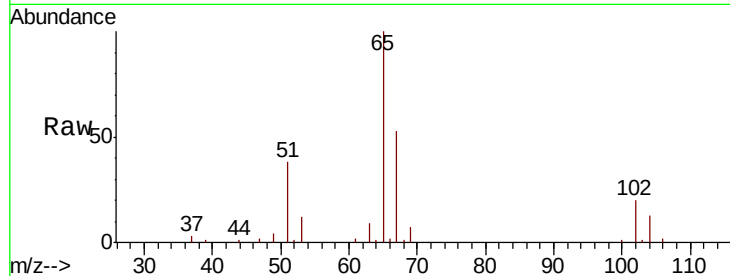




#33
 1,2-Dichloroethane-d4
 Concen: 55.892 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN063064.D
 Acq: 21 Aug 2020 3:41

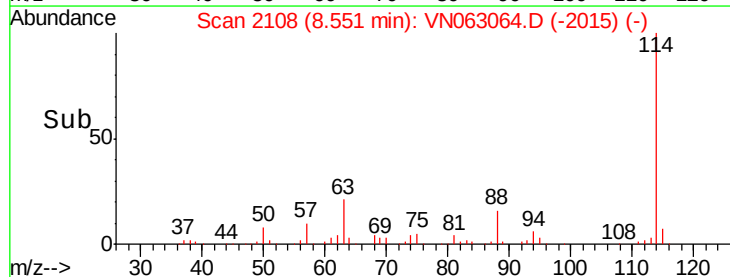
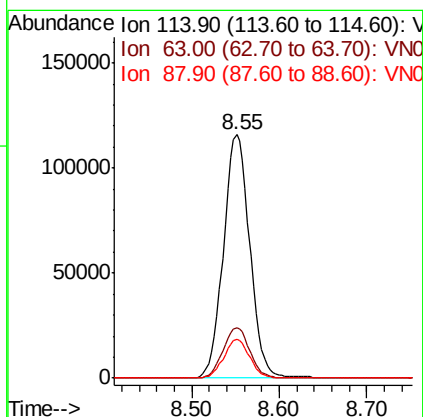
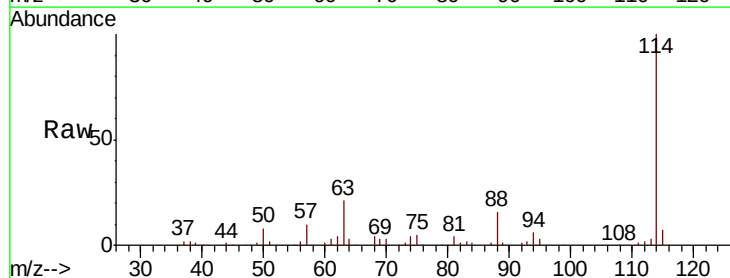
Instrument :
 MSVOA_N
 ClientSampleId :
 39-OWS-081320

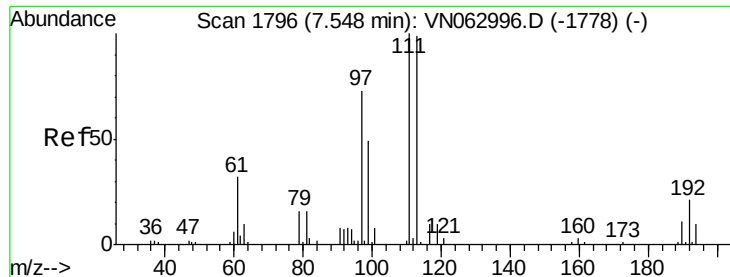
Tot Ion: 65 Resp: 97839
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063064.D
 Acq: 21 Aug 2020 3:41

Tgt Ion: 114 Resp: 243001
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.2
 88 15.8 0.0 30.6

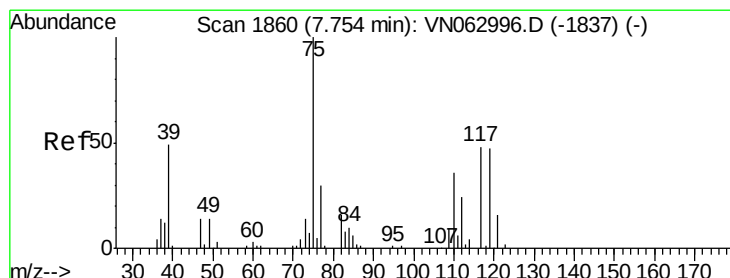
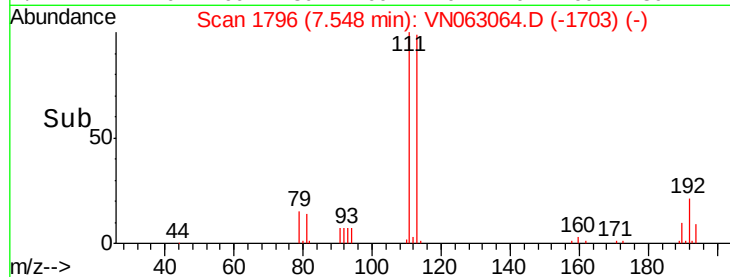
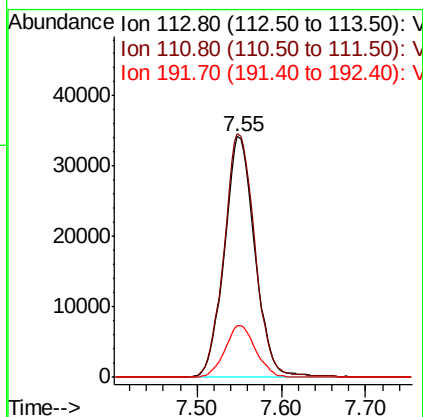
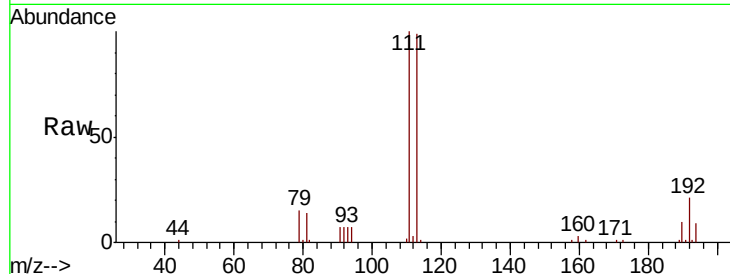




#35
 Dibromofluoromethane
 Concen: 54.053 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN063064.D
 Acq: 21 Aug 2020 3:41

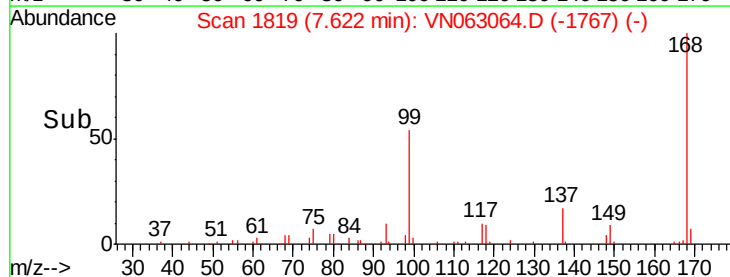
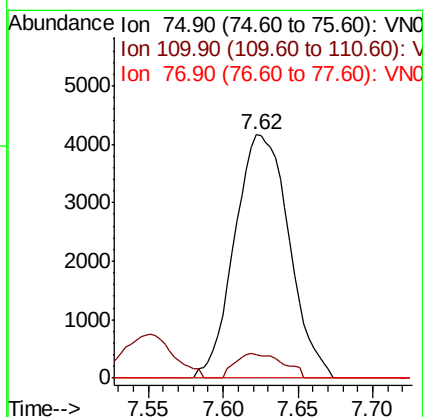
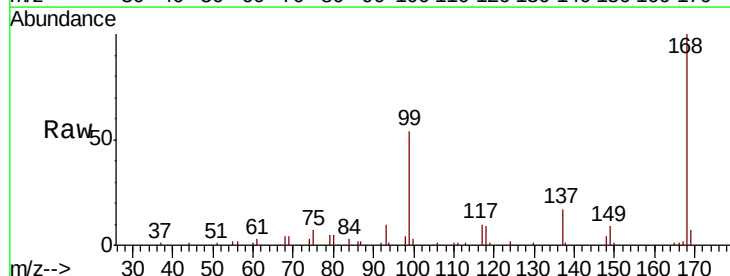
Instrument :
 MSVOA_N
 ClientSampleId :
 39-OWS-081320

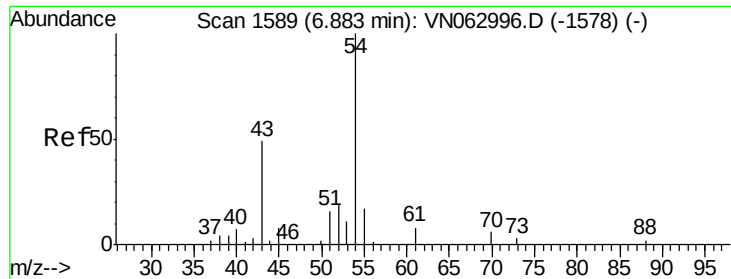
Tot Ion:113 Resp: 85587
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.7 122.5
 192 21.6 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.920 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN063064.D
 Acq: 21 Aug 2020 3:41

Tgt Ion: 75 Resp: 10537
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.5 52.6#
 77 0.0 24.2 36.4#

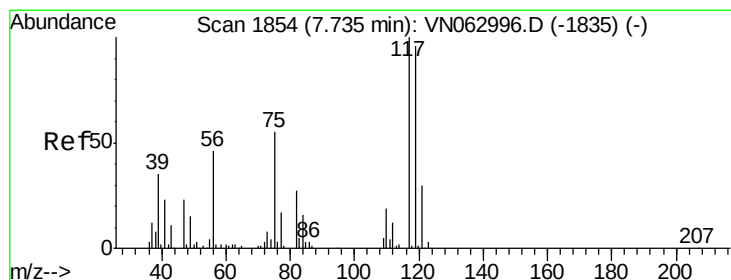
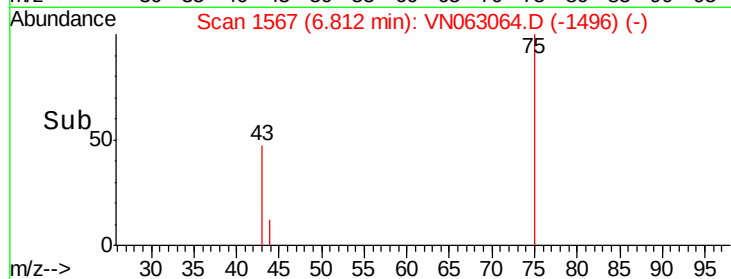
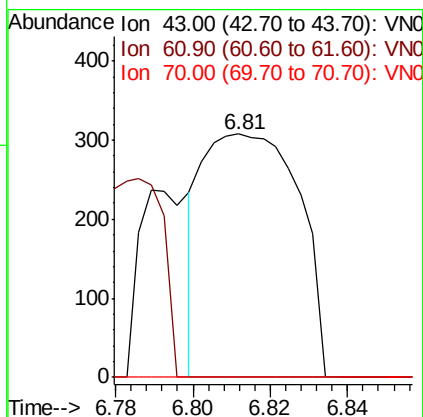
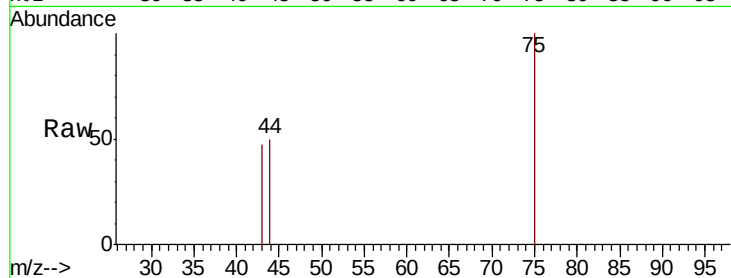




#37
Ethyl Acetate
Concen: 0.265 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.07 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

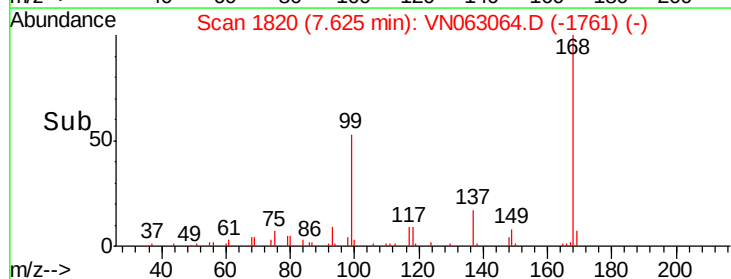
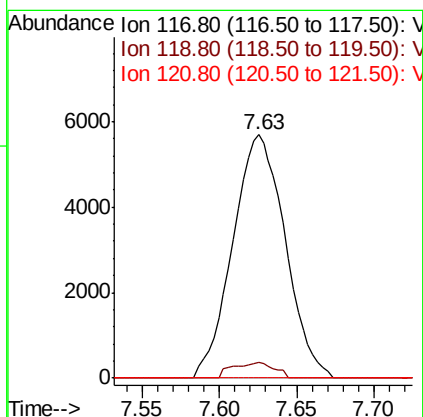
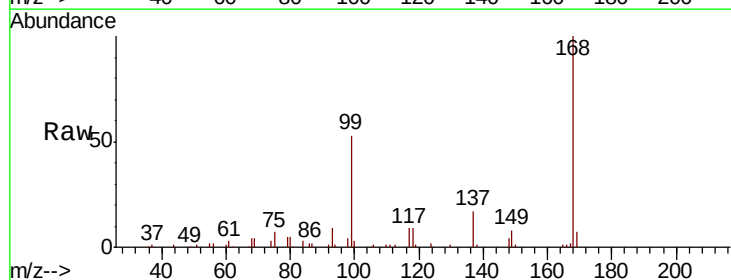
Instrument :
MSVOA_N
ClientSampleId :
39-OWS-081320

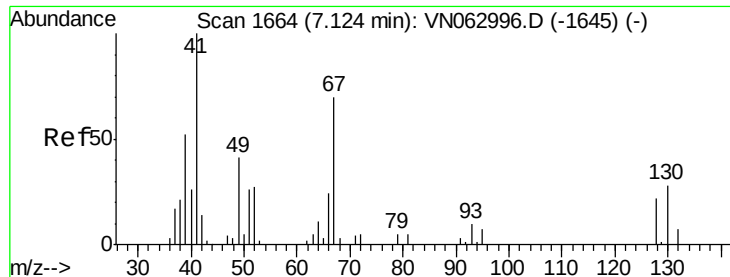
Tot Ion: 43 Resp: 531
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 6.190 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

Tgt Ion: 117 Resp: 13382
Ion Ratio Lower Upper
117 100
119 6.5 76.2 114.4#
121 0.0 24.2 36.2#

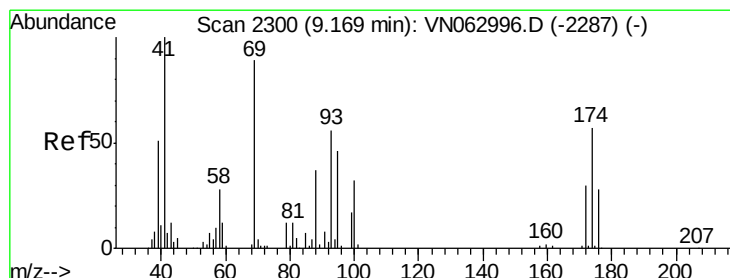
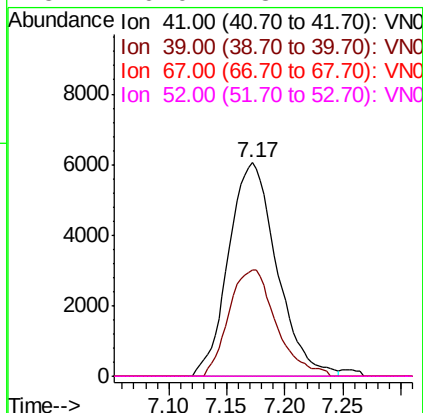
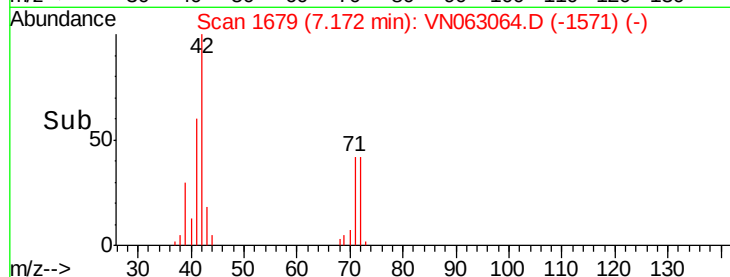
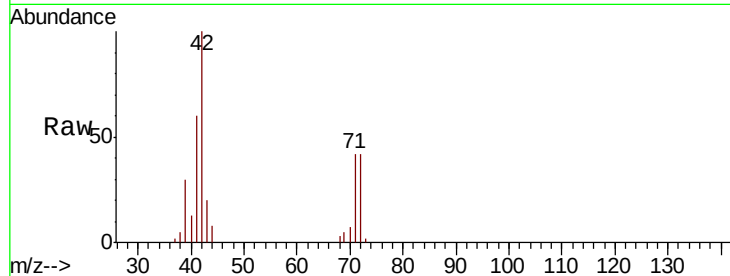




#41
Methacrylonitrile
Concen: 18.308 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.05 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

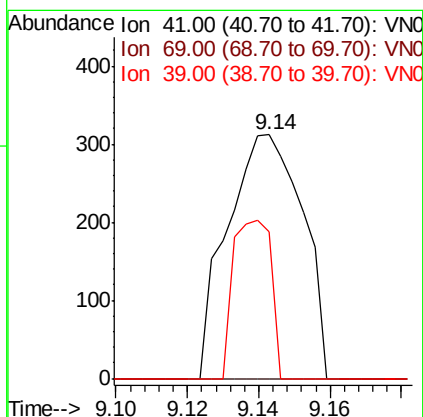
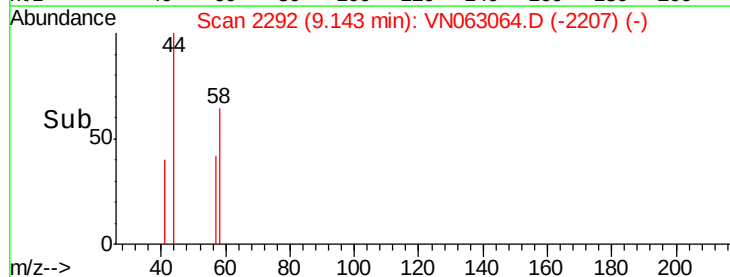
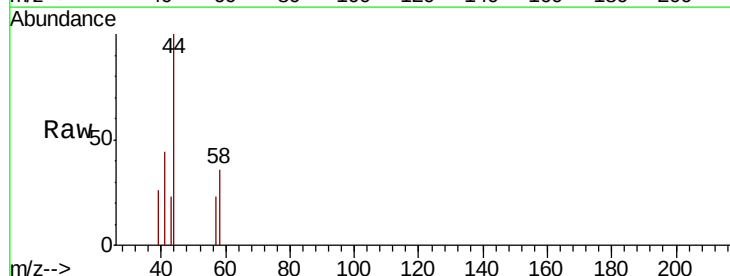
Instrument :
MSVOA_N
ClientSampleId :
39-OWS-081320

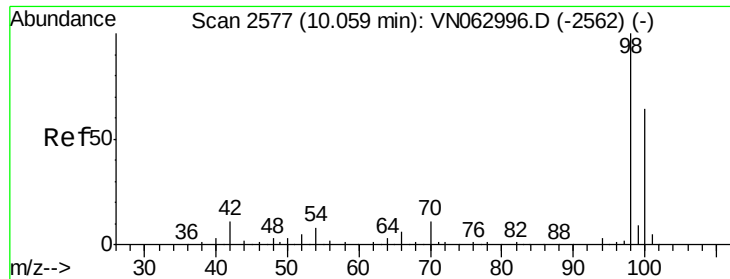
Tot Ion: 41 Resp: 17503
Ion Ratio Lower Upper
41 100
39 48.6 41.6 62.4
67 0.0 71.8 107.8#
52 0.0 28.2 42.4#



#48
Methyl methacrylate
Concen: 0.289 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.03 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

Tgt Ion: 41 Resp: 454
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.4#
39 32.8 42.5 63.7#





#50

Toluene-d8

Concen: 51.162 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

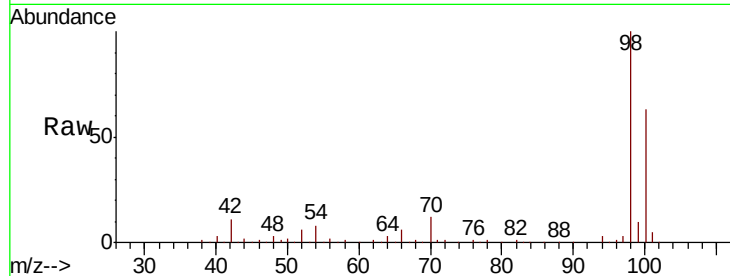
39-OWS-081320

Tot Ion: 98 Resp: 311163

Ion Ratio Lower Upper

98 100

100 63.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062996.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062996.D (-2562) (-)

10.06

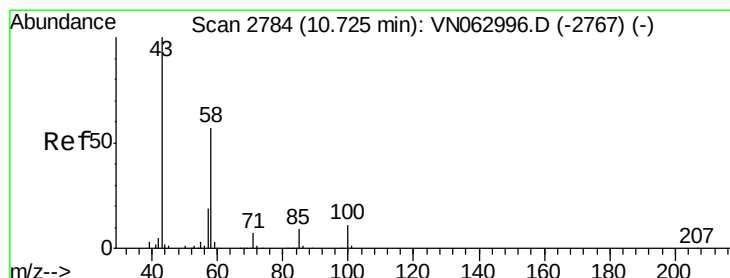
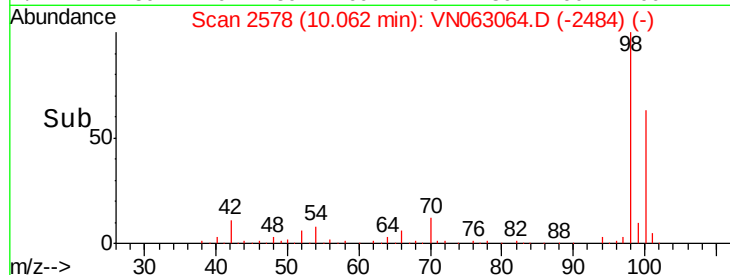
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 1.683 ug/l

RT: 10.83 min Scan# 2817

Delta R.T. 0.11 min

Lab File: VN063064.D

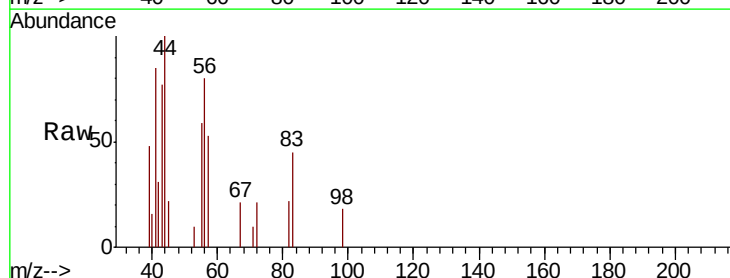
Acq: 21 Aug 2020 3:41

Tgt Ion: 43 Resp: 2466

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2767) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-2767) (-)

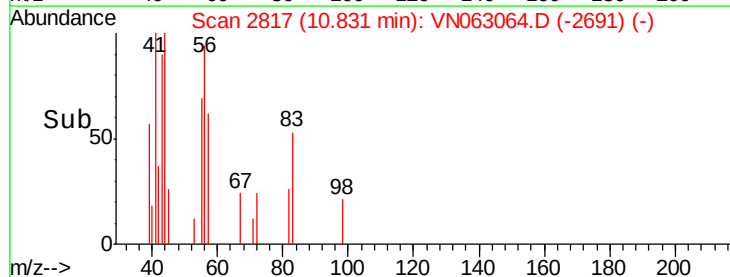
10.83

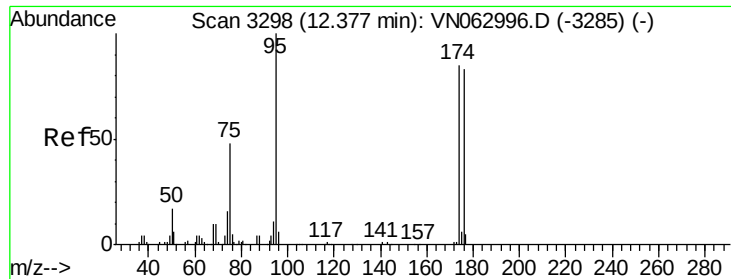
1000

500

0

Time-->

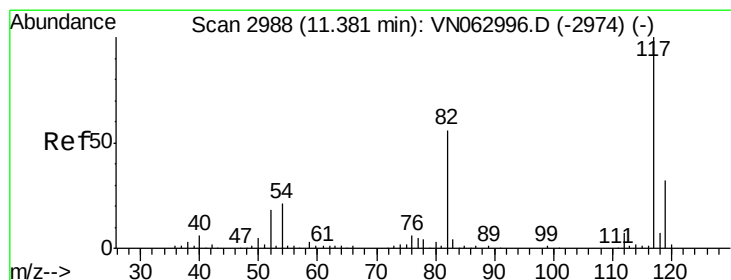
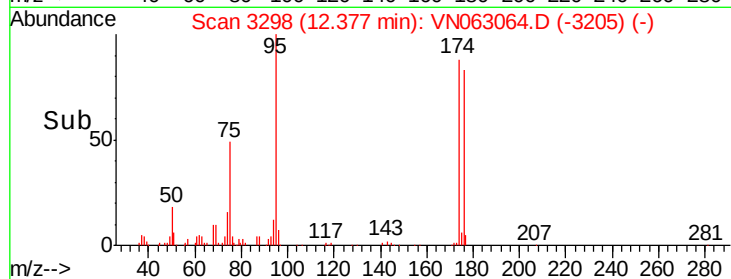
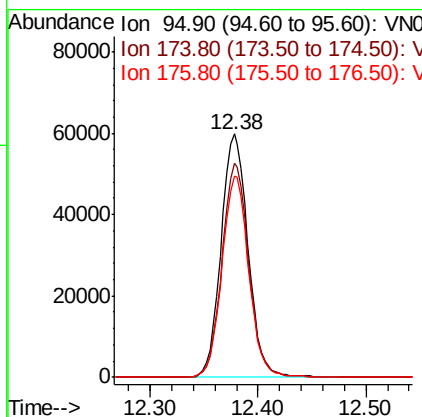
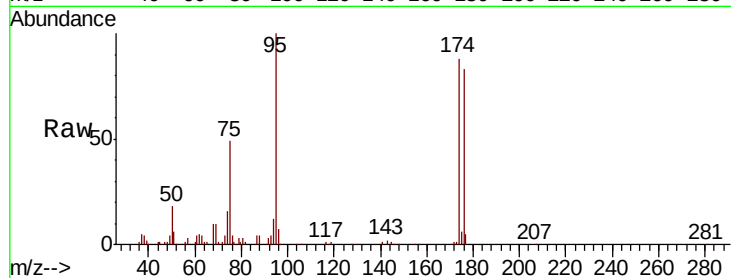




#62
4-Bromofluorobenzene
Concen: 48.446 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

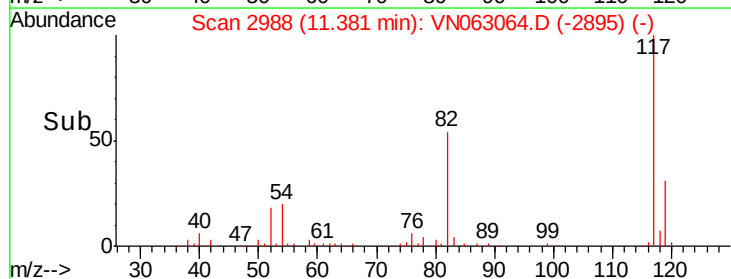
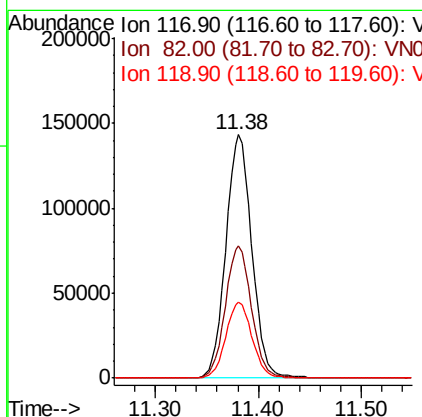
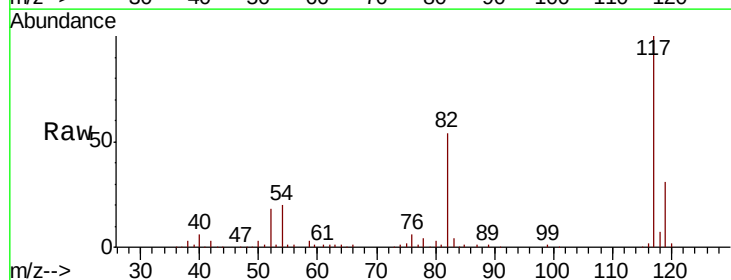
Instrument :
MSVOA_N
ClientSampleId :
39-OVS-081320

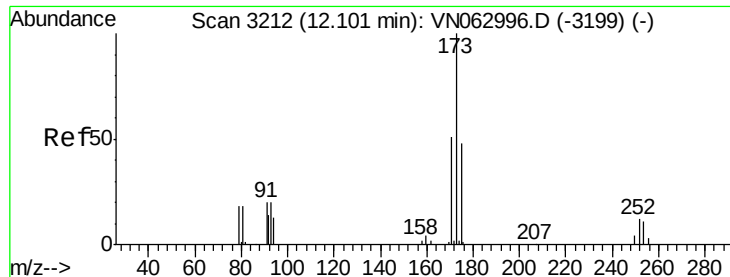
Tot Ion: 95 Resp: 103974
Ion Ratio Lower Upper
95 100
174 87.2 0.0 170.8
176 82.5 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

Tgt Ion: 117 Resp: 252077
Ion Ratio Lower Upper
117 100
82 54.2 44.5 66.7
119 31.4 25.5 38.3





#71

Bromoform

Concen: 0.641 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

39-OVS-081320

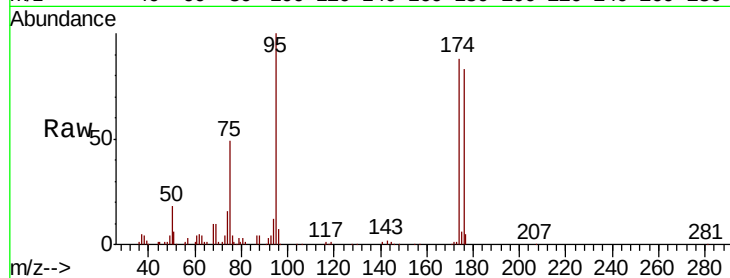
Tot Ion:173 Resp: 1005

Ion Ratio Lower Upper

173 100

175 518.7 24.3 72.8#

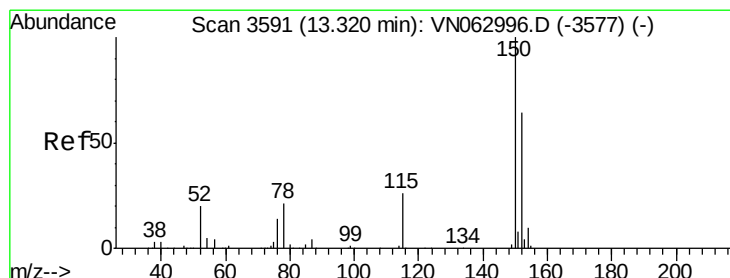
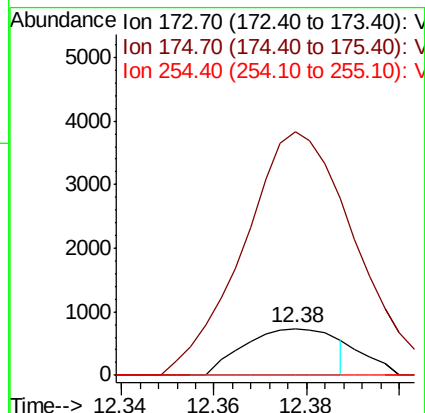
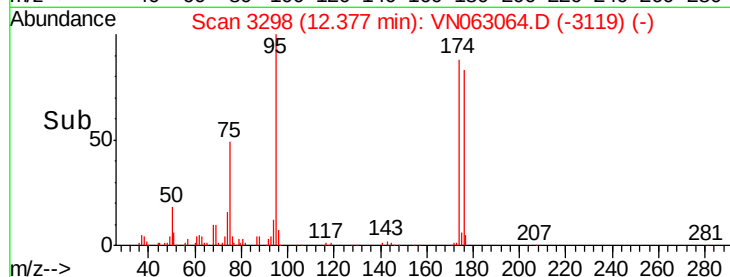
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

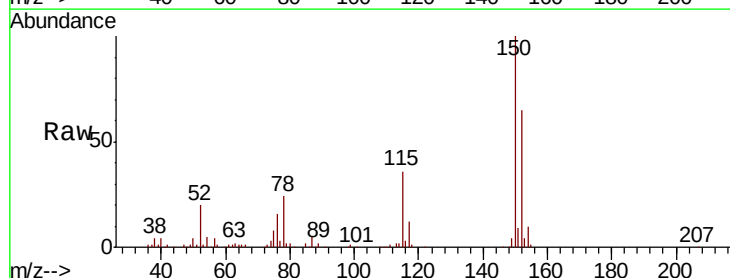
Tgt Ion:152 Resp: 91731

Ion Ratio Lower Upper

152 100

115 57.3 28.7 86.3

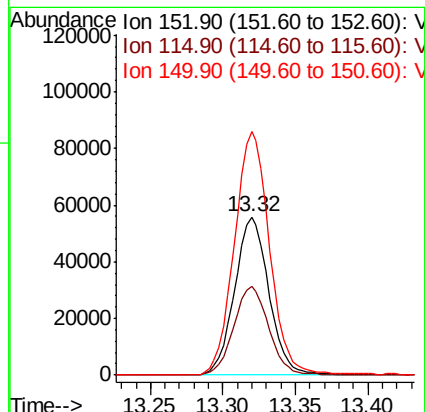
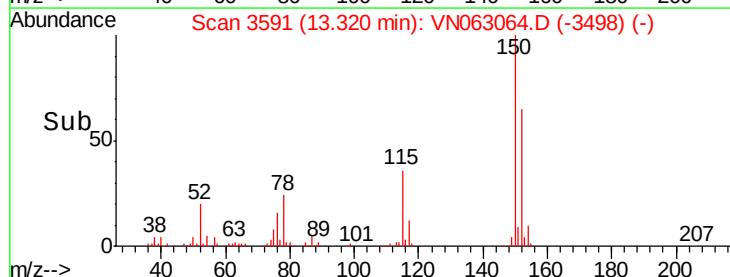
150 158.1 0.0 348.8

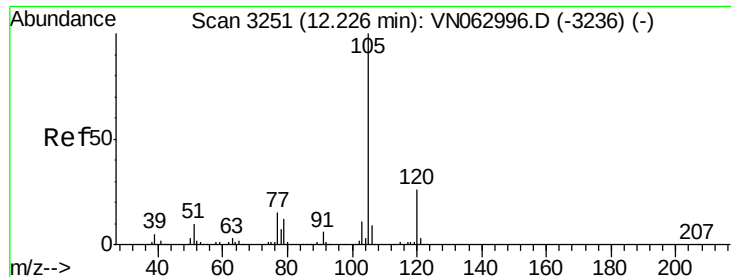


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.224 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. -0.00 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

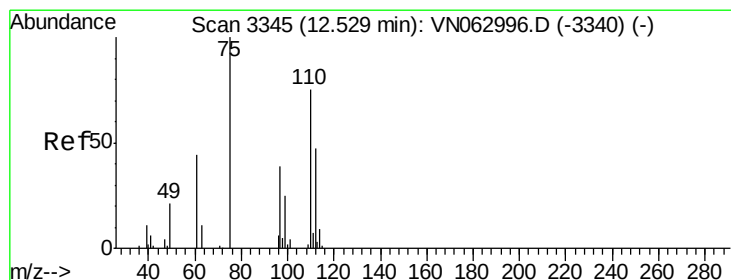
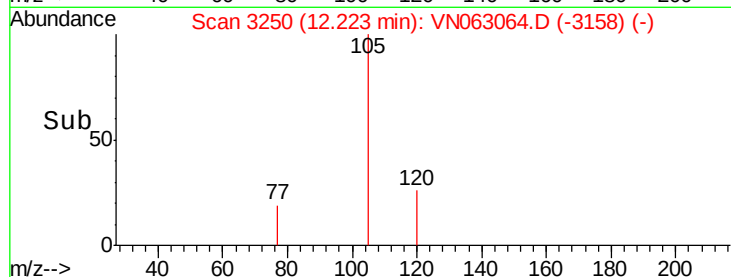
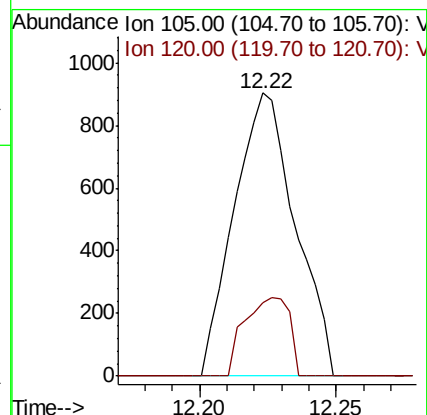
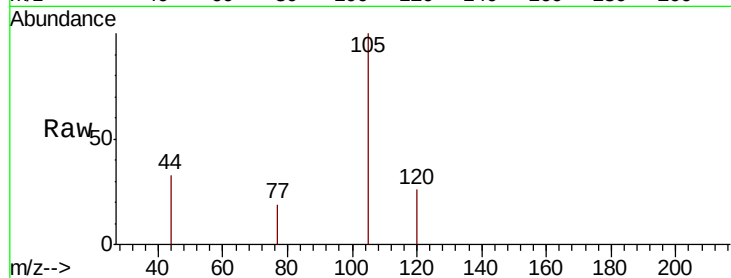
39-OWS-081320

Tot Ion:105 Resp: 1409

Ion Ratio Lower Upper

105 100

120 20.2 13.2 39.6



#76

1,2,3-Trichloropropane

Concen: 28.109 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063064.D

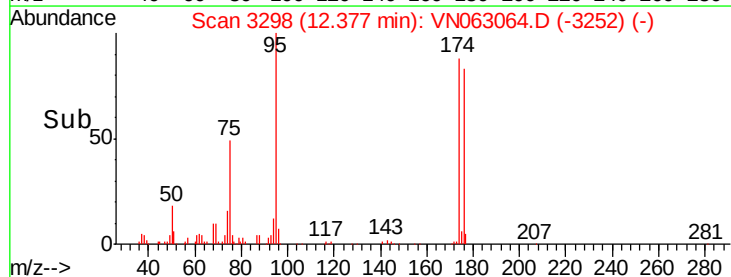
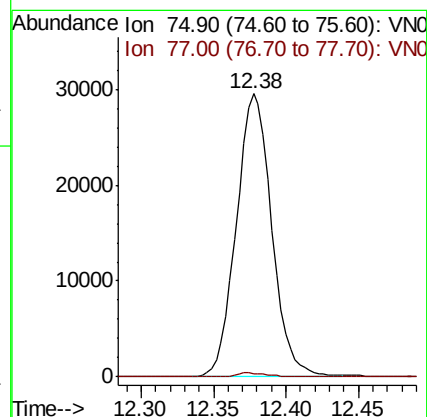
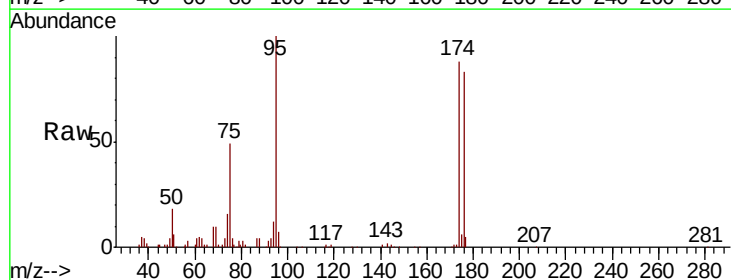
Acq: 21 Aug 2020 3:41

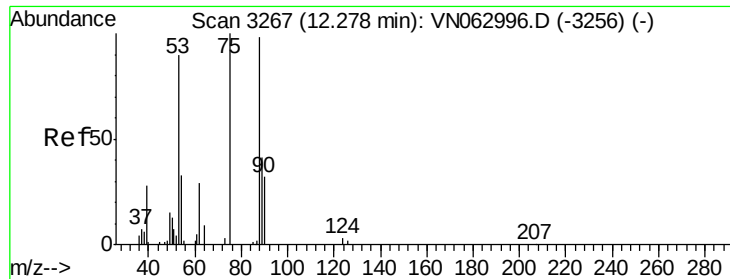
Tgt Ion: 75 Resp: 50119

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

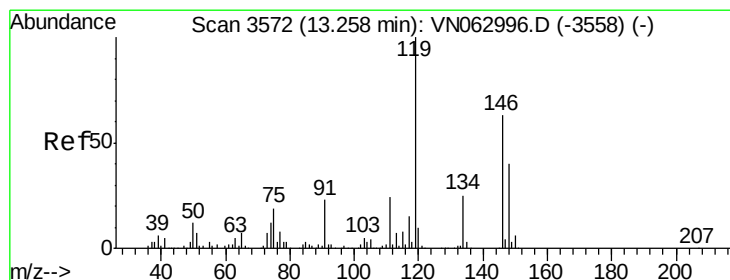
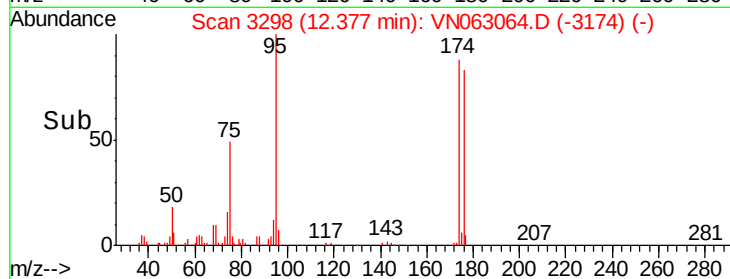
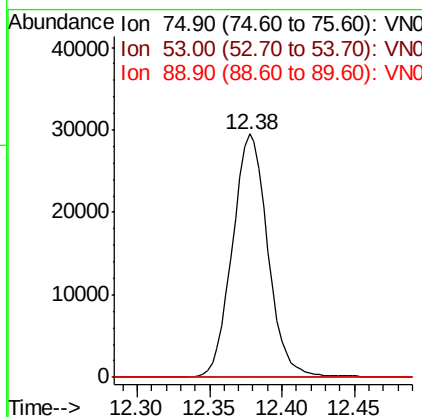
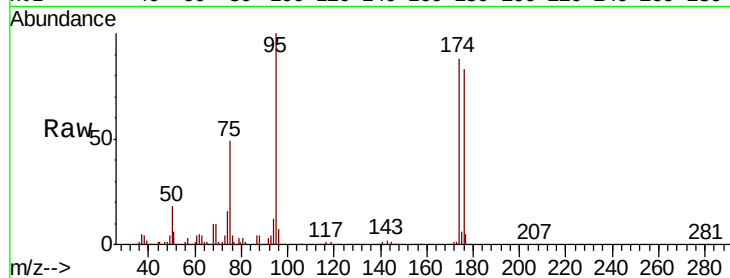




#81
trans-1,4-Dichloro-2-butene
Concen: 77.199 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

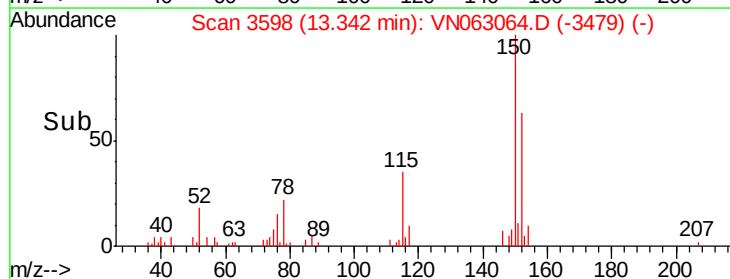
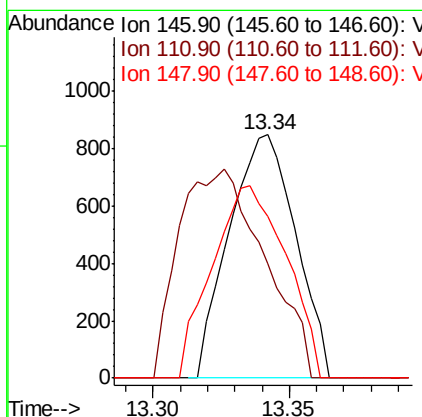
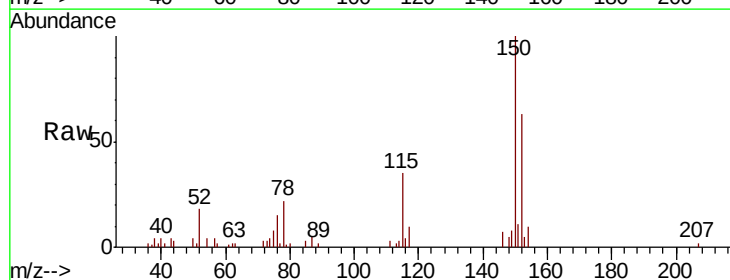
Instrument :
MSVOA_N
ClientSampleId :
39-OVS-081320

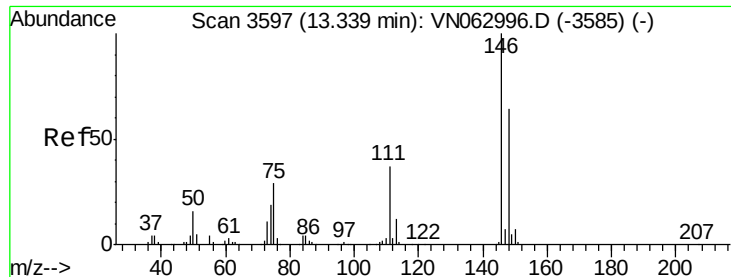
Tot Ion: 75 Resp: 50119
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 34.2 51.4#



#87
1,3-Dichlorobenzene
Concen: 0.483 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.08 min
Lab File: VN063064.D
Acq: 21 Aug 2020 3:41

Tgt Ion: 146 Resp: 1434
Ion Ratio Lower Upper
146 100
111 110.6 19.4 58.1#
148 87.8 32.0 96.0

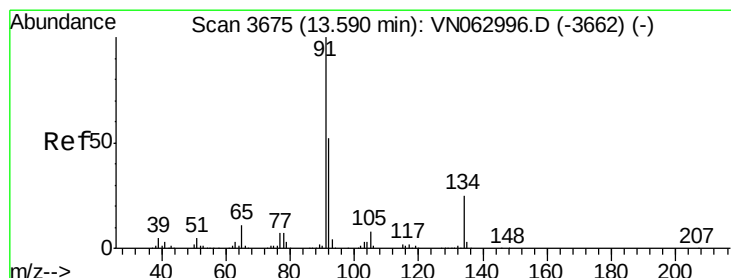
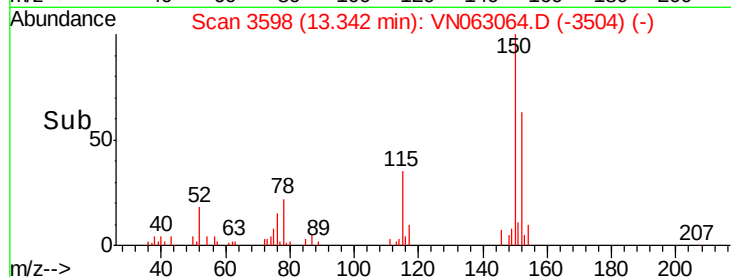
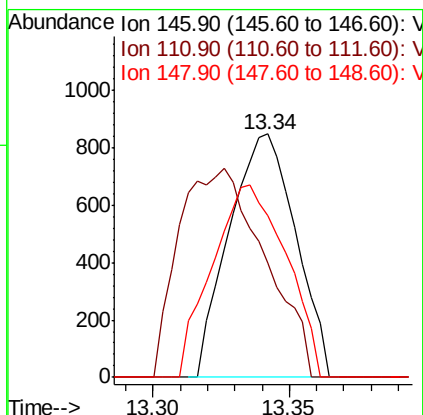
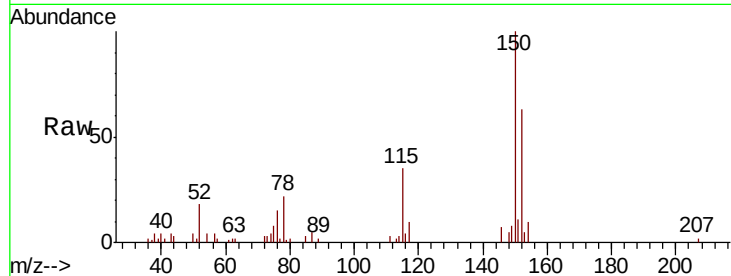




#88
 1,4-Dichlorobenzene
 Concen: 0.476 ug/l
 RT: 13.34 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VN063064.D
 Acq: 21 Aug 2020 3:41

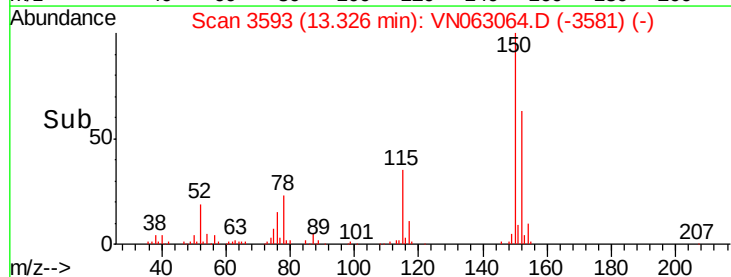
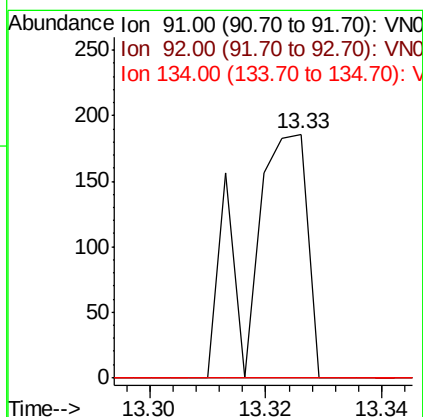
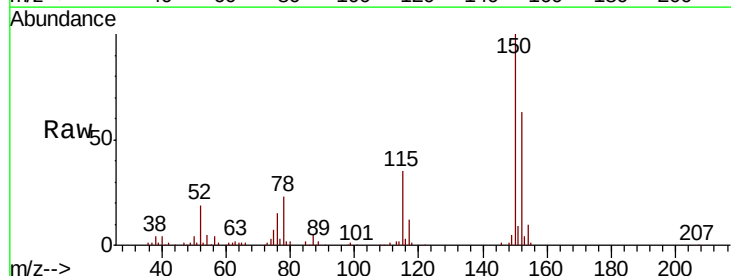
Instrument :
 MSVOA_N
 ClientSampleId :
 39-OVS-081320

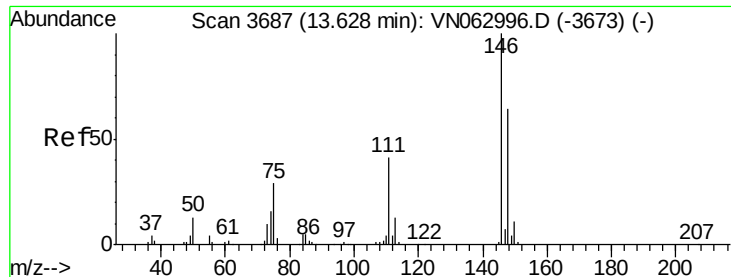
Tot Ion:146 Resp: 1434
 Ion Ratio Lower Upper
 146 100
 111 110.6 18.8 56.4#
 148 87.8 32.4 97.0



#89
 n-Butylbenzene
 Concen: 2.795 ug/l
 RT: 13.33 min Scan# 3593
 Delta R.T. -0.26 min
 Lab File: VN063064.D
 Acq: 21 Aug 2020 3:41

Tgt Ion: 91 Resp: 131
 Ion Ratio Lower Upper
 91 100
 92 0.0 25.9 77.6#
 134 0.0 12.4 37.0#





#91

1,2-Dichlorobenzene

Concen: 0.347 ug/l

RT: 13.63 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VN063064.D

Acq: 21 Aug 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

39-OWS-081320

Tot Ion:146 Resp: 996

Ion Ratio Lower Upper

146 100

111 30.2 20.2 60.5

148 46.3 31.9 95.5

