

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090120\
 Data File : VN063163.D
 Acq On : 1 Sep 2020 18:29
 Operator : JC/MD
 Sample : L3849-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 04:04:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	379301	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	729072	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	726802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	288768	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	291626	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
35) Dibromofluoromethane	7.55	113	231015	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	10.06	98	935510	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
62) 4-Bromofluorobenzene	12.38	95	333313	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	

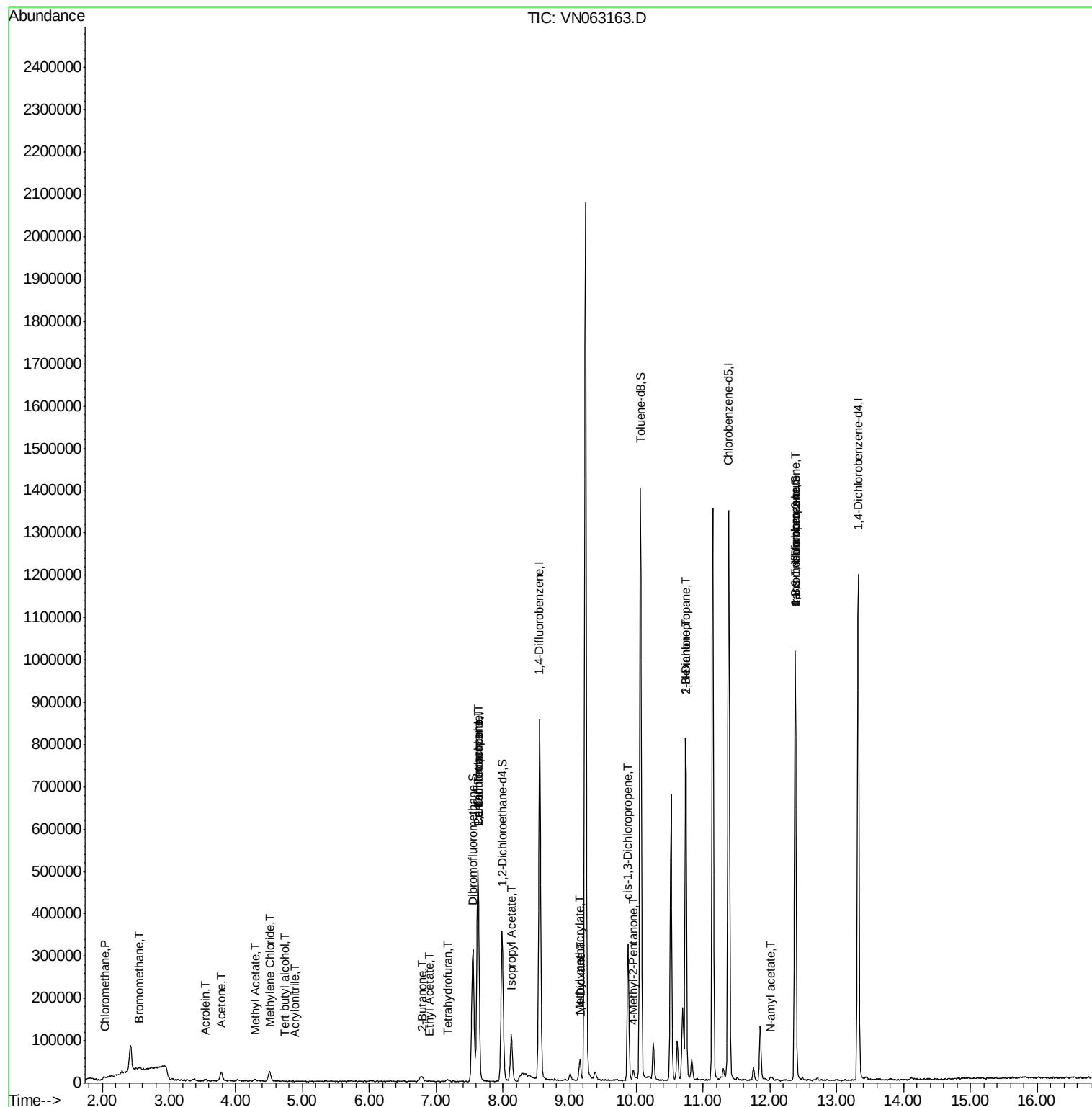
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2830	0.520	ug/l	98
5) Bromomethane	2.54	94	2815	0.557	ug/l	87
7) Trichlorofluoromethane	2.99	101	127	Below Cal	#	19
11) Tert butyl alcohol	4.73	59	245	0.322	ug/l #	72
13) Acrolein	3.55	56	69	15.992	ug/l #	1
15) Acrylonitrile	4.90	53	66	2.435	ug/l #	1
16) Acetone	3.78	43	37337	21.183	ug/l	91
18) Methyl Acetate	4.28	43	8298	1.836	ug/l #	73
20) Methylene Chloride	4.51	84	16024	2.768	ug/l	94
25) 2-Butanone	6.79	43	6584	2.412	ug/l #	84
29) Tetrahydrofuran	7.18	42	2455	1.301	ug/l #	79
31) Cyclohexane	7.62	56	10750	Below Cal	#	44
36) 1,1-Dichloropropene	7.62	75	35629	5.083	ug/l #	47
37) Ethyl Acetate	6.89	43	414	0.442	ug/l #	45
38) Carbon Tetrachloride	7.63	117	41398	5.824	ug/l #	14
43) Isopropyl Acetate	8.13	43	137517	12.031	ug/l #	90
48) Methyl methacrylate	9.15	41	6485	1.259	ug/l #	14
49) 1,4-Dioxane	9.17	88	464	5.822	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	17613	2.836	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	55593	6.250	ug/l #	63
57) 1,3-Dichloropropane	10.74	76	9563	1.092	ug/l #	43
59) 2-Hexanone	10.74	43	125925	28.847	ug/l #	51
74) N-amyl acetate	12.01	43	6954	0.758	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	191148	33.690	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	191148	81.429	ug/l #	11

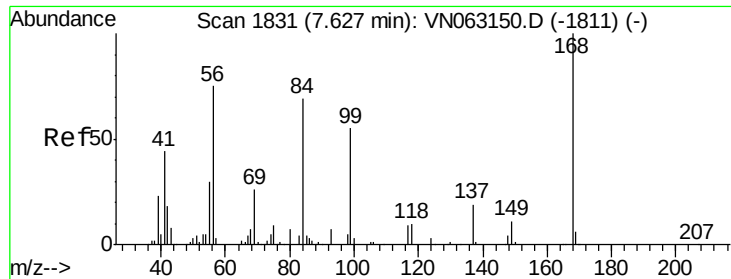
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063163.D

Acq: 1 Sep 2020 18:29

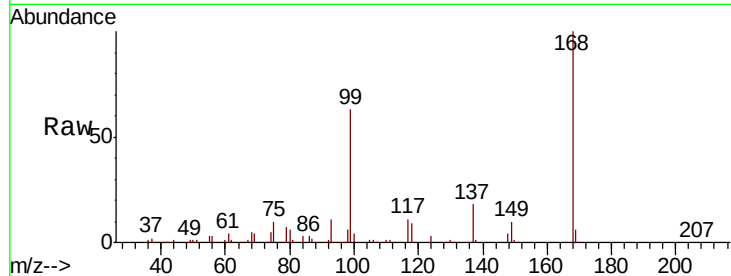
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 379301

Ion Ratio Lower Upper

168 100

99 63.1 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

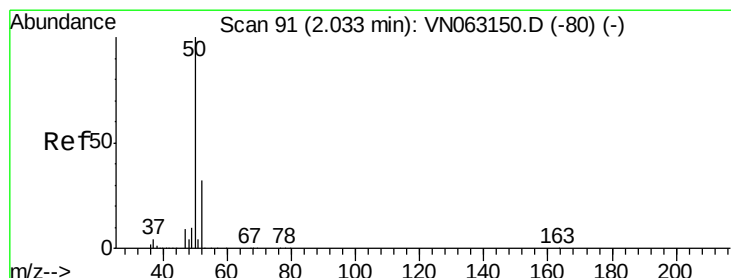
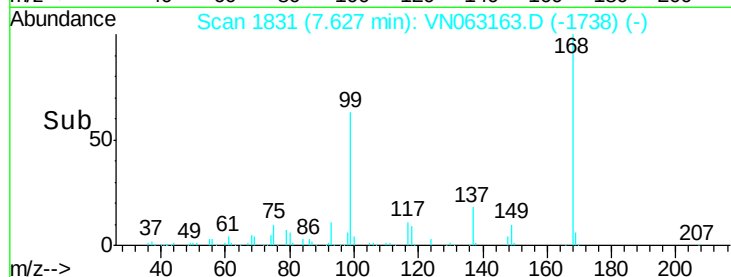
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.520 ug/l

RT: 2.03 min Scan# 91

Delta R.T. 0.00 min

Lab File: VN063163.D

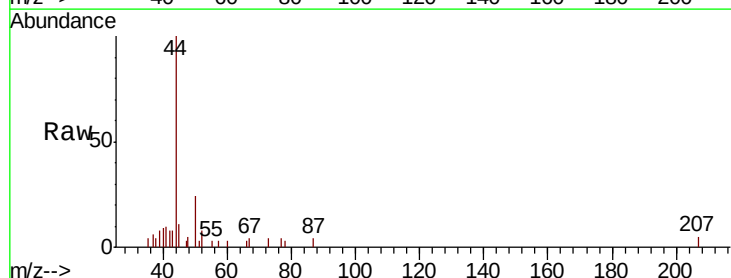
Acq: 1 Sep 2020 18:29

Tgt Ion: 50 Resp: 2830

Ion Ratio Lower Upper

50 100

52 31.3 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

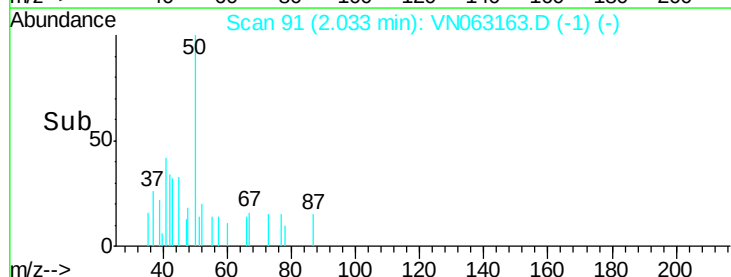
1500

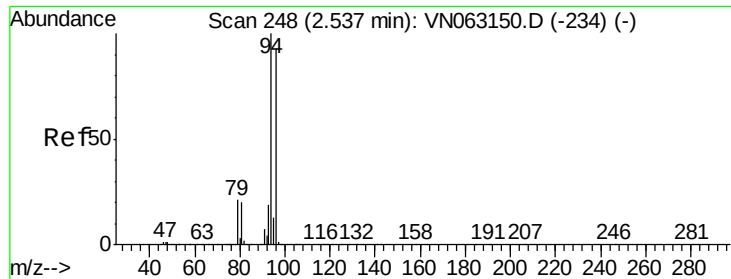
1000

500

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.557 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN063163.D

Acq: 1 Sep 2020 18:29

Instrument :

MSVOA_N

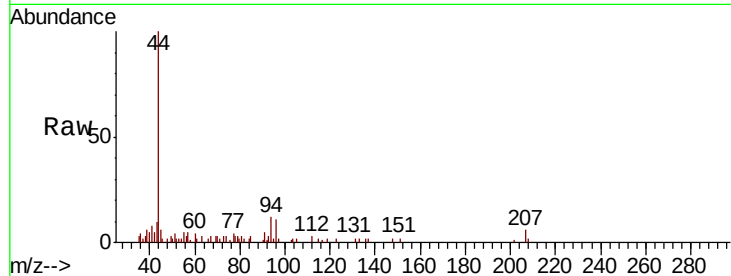
ClientSampleId :

Tot Ion: 94 Resp: 2815

Ion Ratio Lower Upper

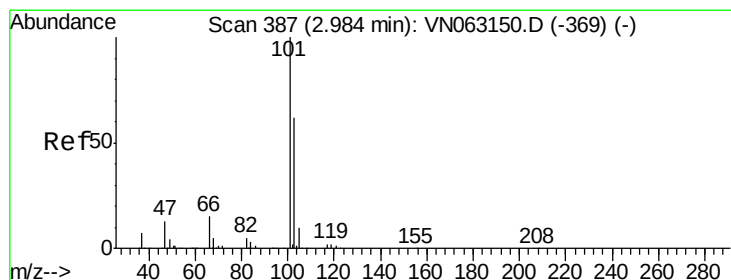
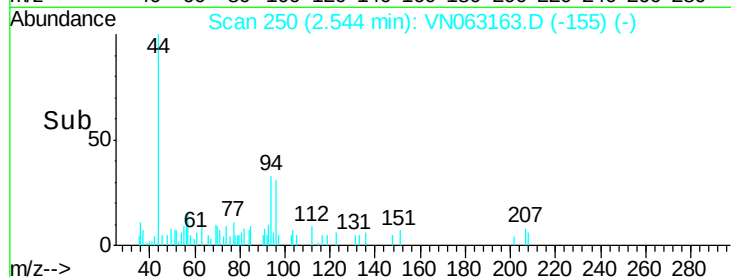
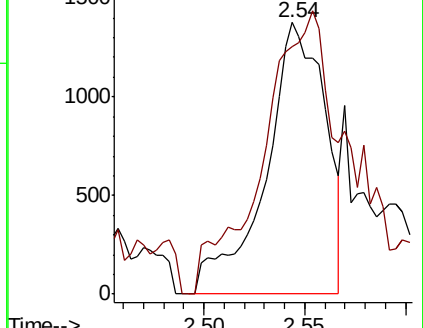
94 100

96 80.1 74.4 111.6



Abundance Ion 93.90 (93.60 to 94.60): VN063150.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN063150.D (-234) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.99 min Scan# 388

Delta R.T. 0.00 min

Lab File: VN063163.D

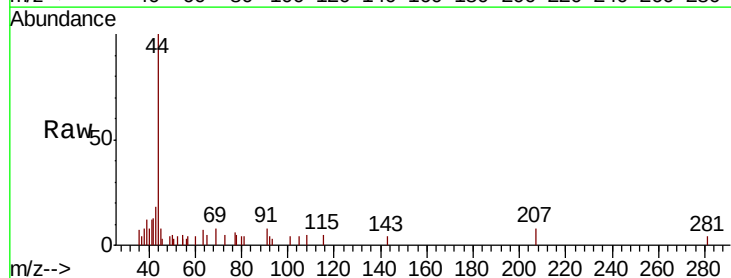
Acq: 1 Sep 2020 18:29

Tgt Ion: 101 Resp: 127

Ion Ratio Lower Upper

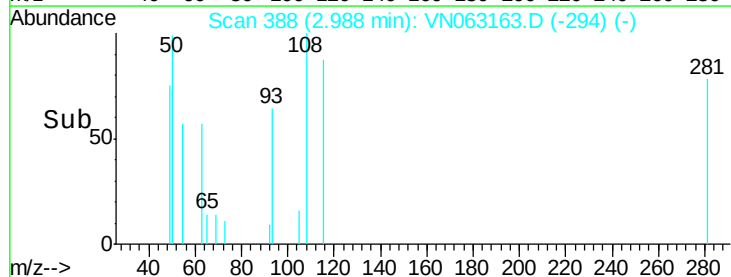
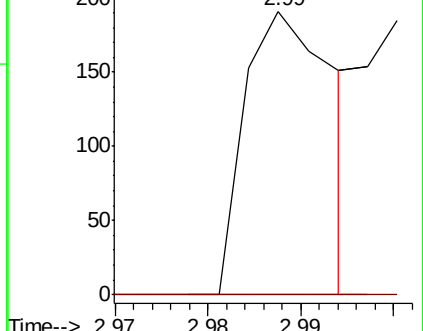
101 100

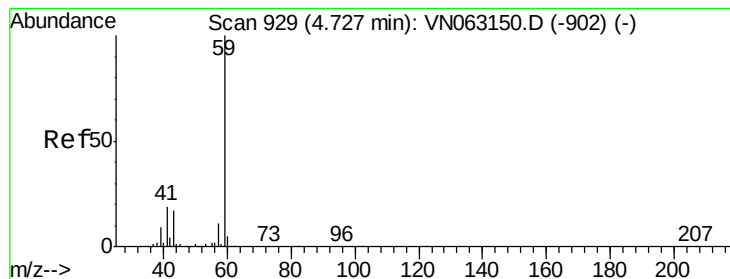
103 0.0 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): VN063150.D (-369) (-)

Ion 102.80 (102.50 to 103.50): VN063150.D (-369) (-)





#11

Tert butyl alcohol

Concen: 0.322 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN063163.D

Acq: 1 Sep 2020 18:29

Instrument :

MSVOA_N

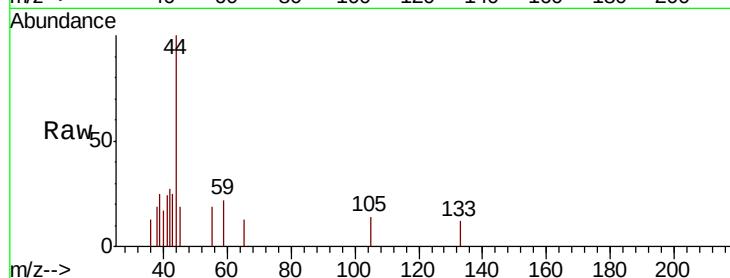
ClientSampled :

Tot Ion: 59 Resp: 245

Ion Ratio Lower Upper

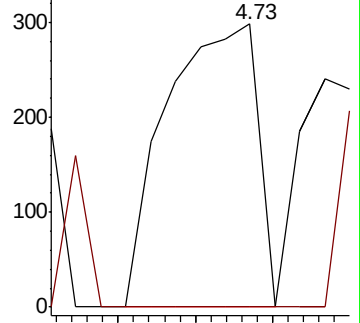
59 100

57 0.0 8.4 12.6#

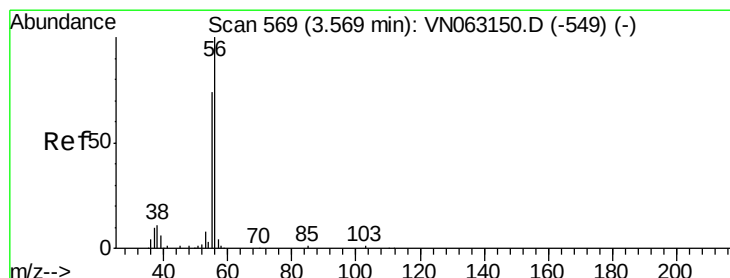
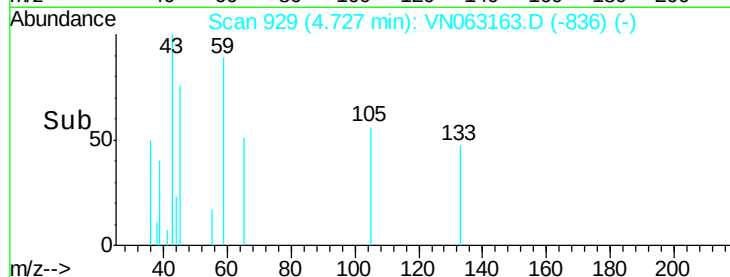


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time-->



#13

Acrolein

Concen: 15.992 ug/l

RT: 3.55 min Scan# 563

Delta R.T. -0.02 min

Lab File: VN063163.D

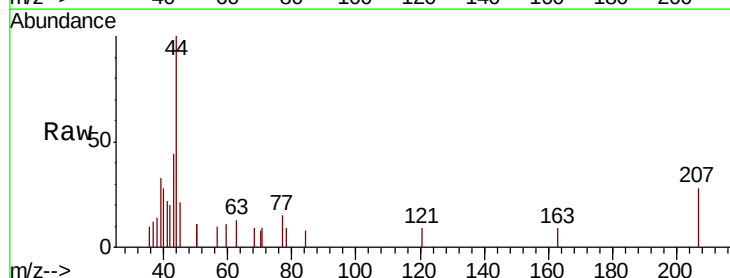
Acq: 1 Sep 2020 18:29

Tgt Ion: 56 Resp: 69

Ion Ratio Lower Upper

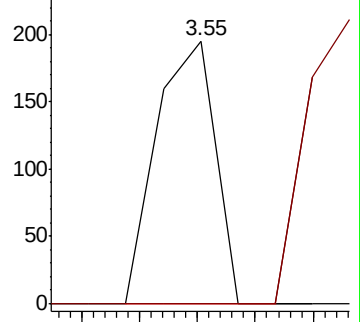
56 100

55 220.3 55.4 83.0#

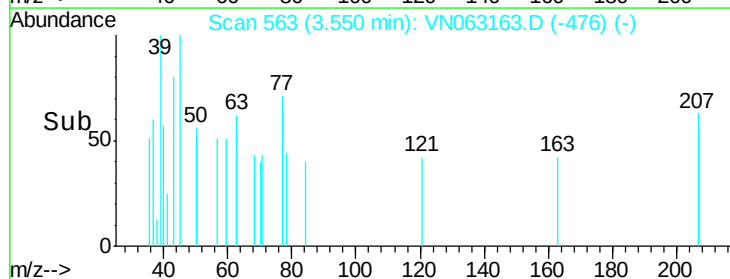


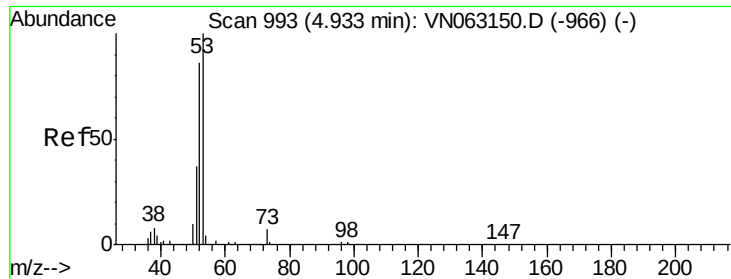
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->





#15

Acrylonitrile

Concen: 2.435 ug/l

RT: 4.90 min Scan# 982

Delta R.T. -0.03 min

Lab File: VN063163.D

Acq: 1 Sep 2020 18:29

Instrument :

MSVOA_N

ClientSampled :

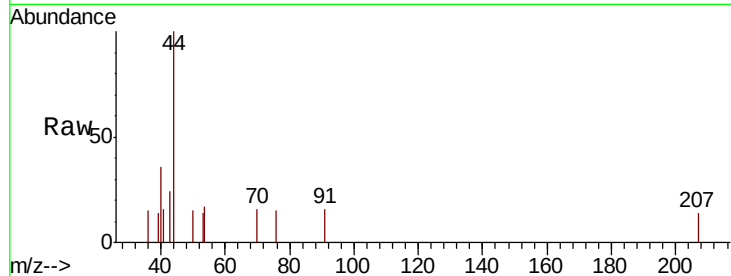
Tot Ion: 53 Resp: 66

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

51 337.9 30.2 45.4#

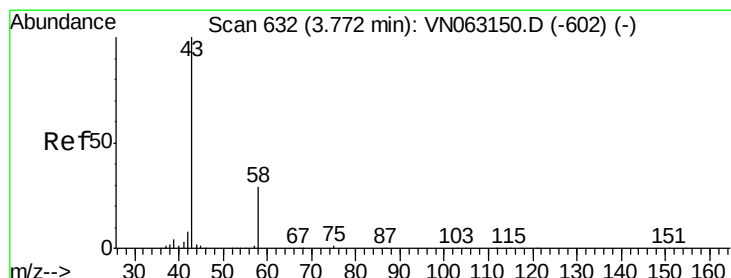
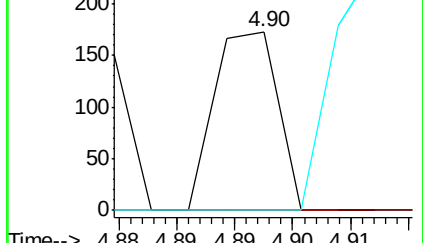
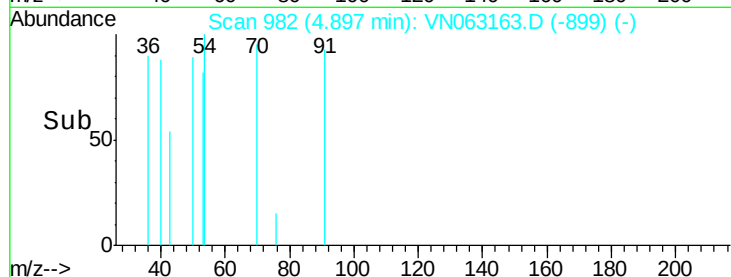


Abundance Ion 53.00 (52.70 to 53.70): VN063150.D (-966) (-)

Ion 52.00 (51.70 to 52.70): VN063150.D (-966) (-)

Ion 51.00 (50.70 to 51.70): VN063150.D (-966) (-)

Time-->



#16

Acetone

Concen: 21.183 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063163.D

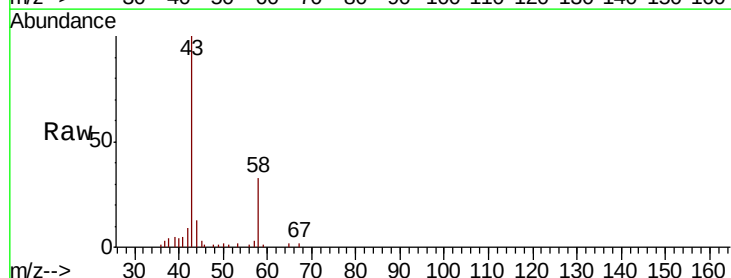
Acq: 1 Sep 2020 18:29

Tgt Ion: 43 Resp: 37337

Ion Ratio Lower Upper

43 100

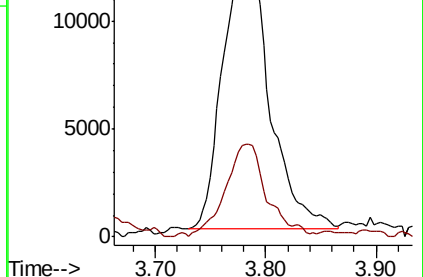
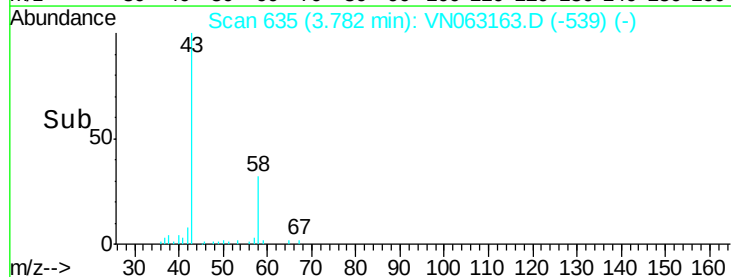
58 33.8 23.1 34.7

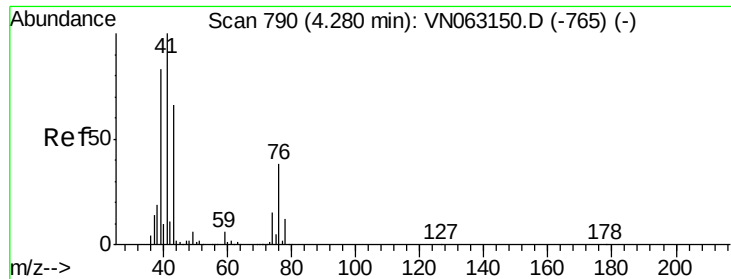


Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-602) (-)

Ion 58.00 (57.70 to 58.70): VN063150.D (-602) (-)

Time-->

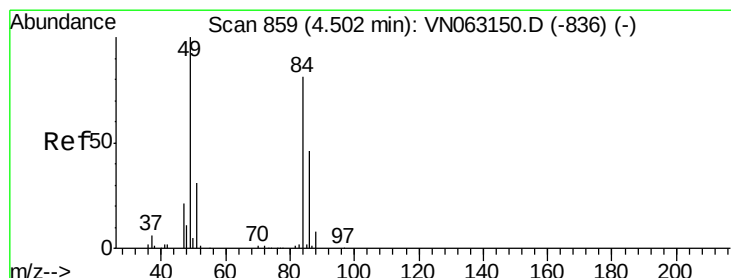
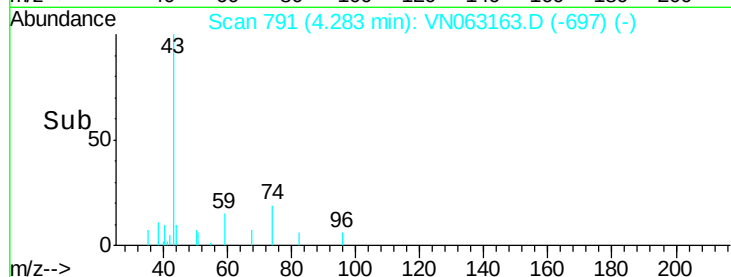
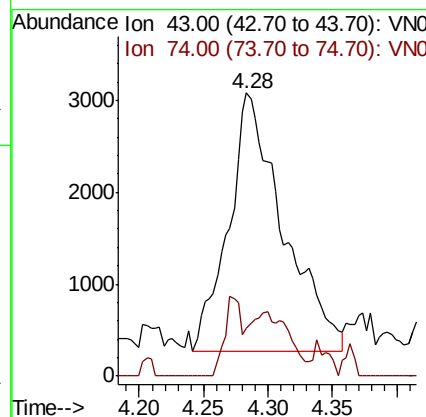
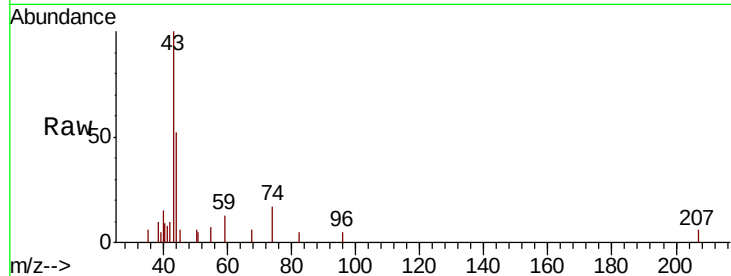




#18
Methyl Acetate
Concen: 1.836 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

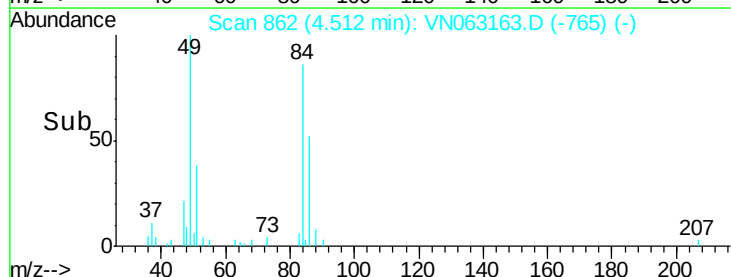
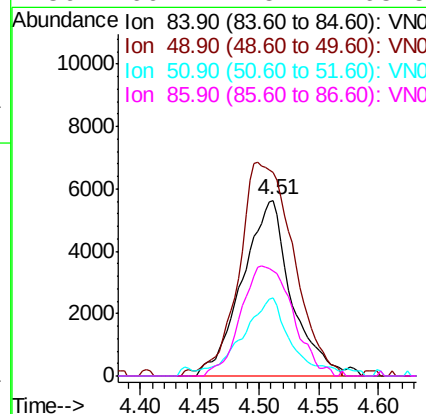
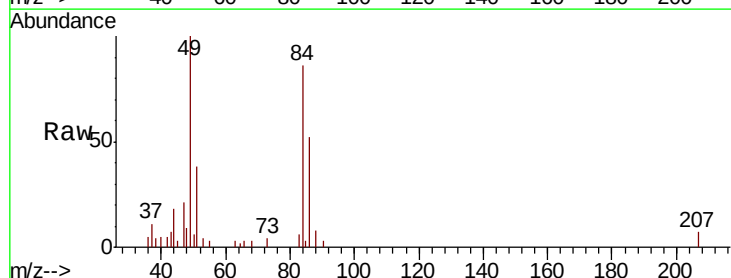
Instrument :
MSVOA_N
ClientSampleId :

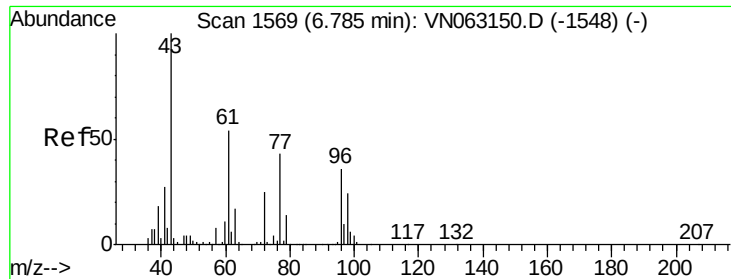
Tot Ion: 43 Resp: 8298
Ion Ratio Lower Upper
43 100
74 10.3 19.0 28.6#



#20
Methylene Chloride
Concen: 2.768 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion: 84 Resp: 16024
Ion Ratio Lower Upper
84 100
49 115.9 98.4 147.6
51 41.6 30.4 45.6
86 60.2 45.7 68.5

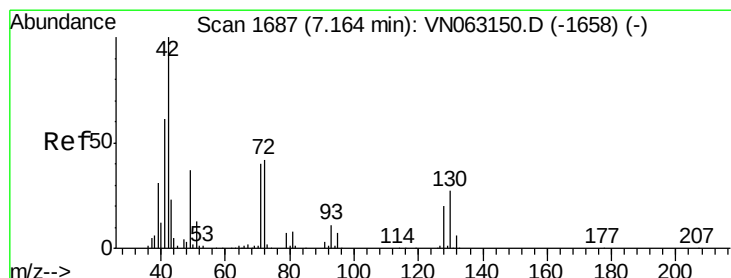
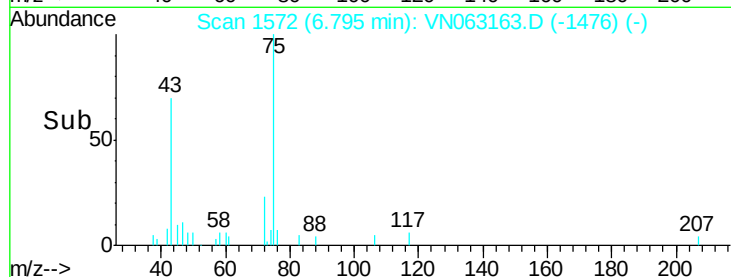
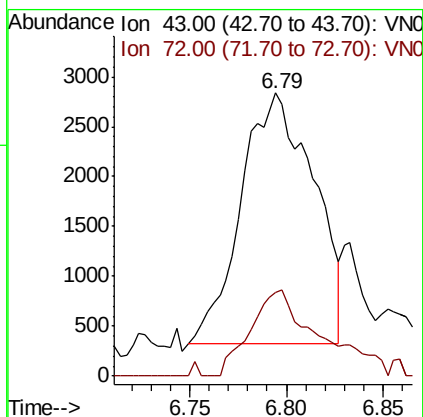
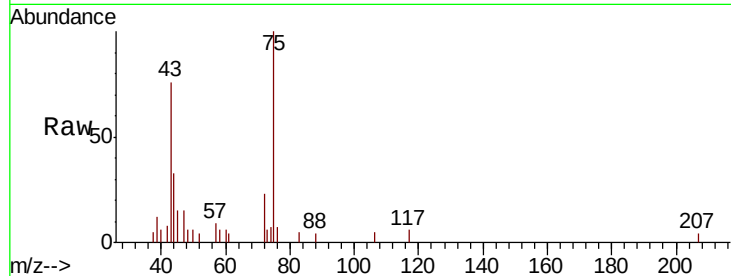




#25
 2-Butanone
 Concen: 2.412 ug/l
 RT: 6.79 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: VN063163.D
 Acq: 1 Sep 2020 18:29

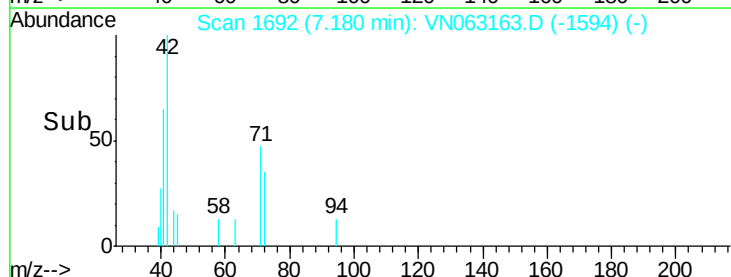
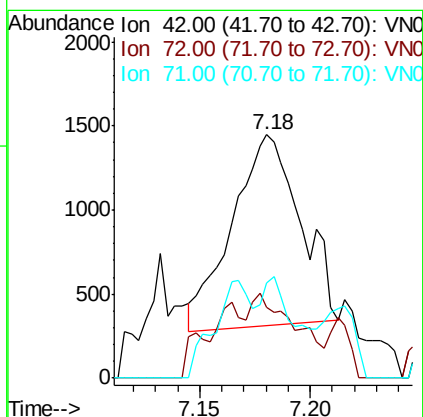
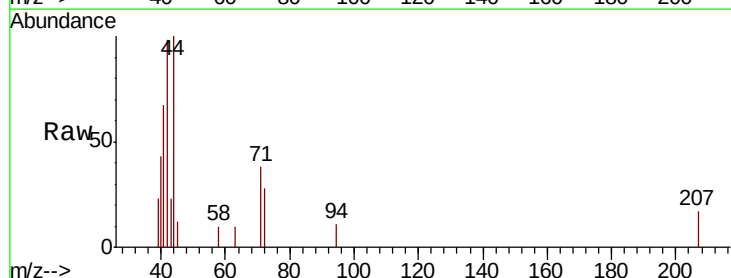
Instrument :
 MSVOA_N
 ClientSampleId :

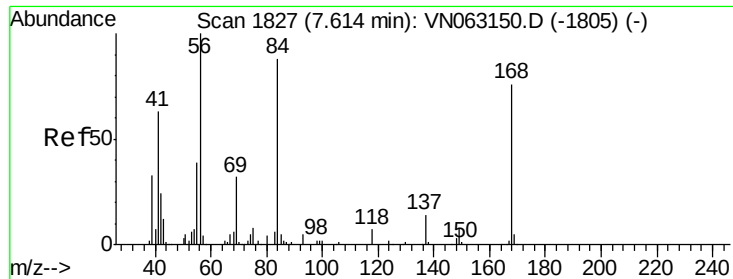
Tot Ion: 43 Resp: 6584
 Ion Ratio Lower Upper
 43 100
 72 33.6 20.2 30.4#



#29
 Tetrahydrofuran
 Concen: 1.301 ug/l
 RT: 7.18 min Scan# 1692
 Delta R.T. 0.02 min
 Lab File: VN063163.D
 Acq: 1 Sep 2020 18:29

Tgt Ion: 42 Resp: 2455
 Ion Ratio Lower Upper
 42 100
 72 29.8 33.9 50.9#
 71 26.4 31.9 47.9#

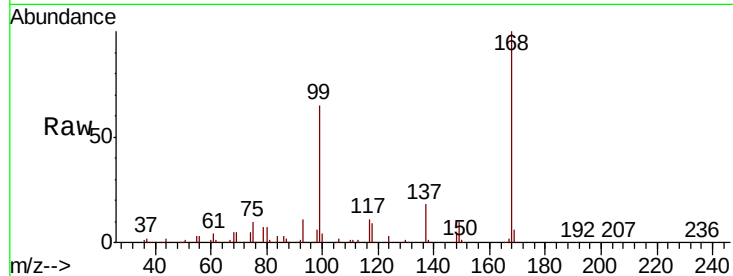




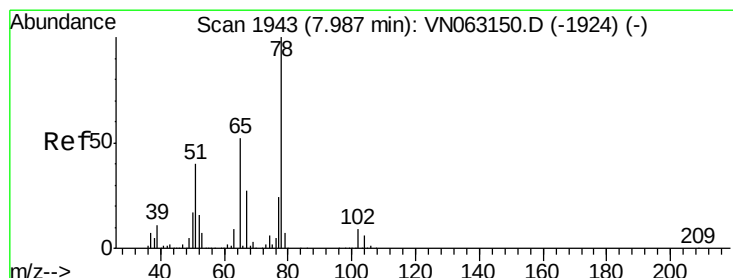
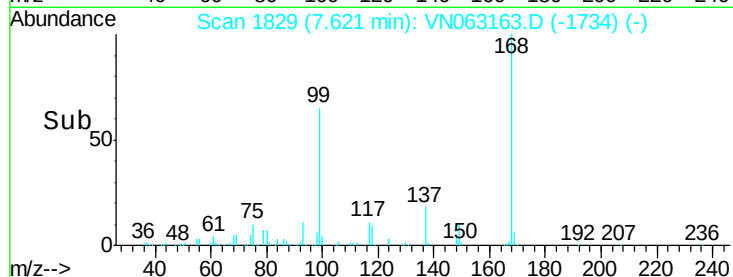
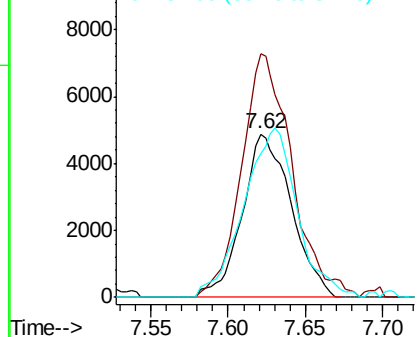
#31
Cyclohexane
Concen: Below Cal
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 10750
Ion Ratio Lower Upper
56 100
69 149.0 25.4 38.0#
84 88.3 70.2 105.4

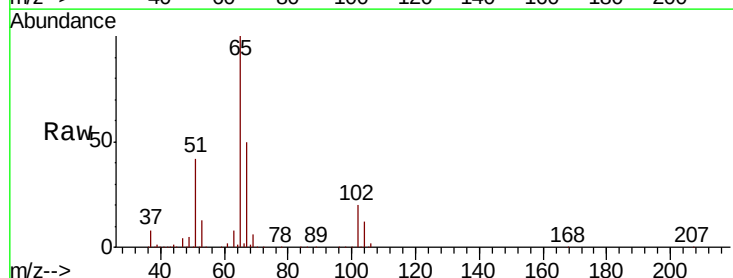


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

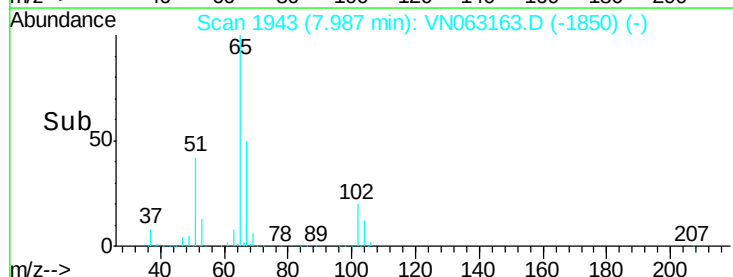
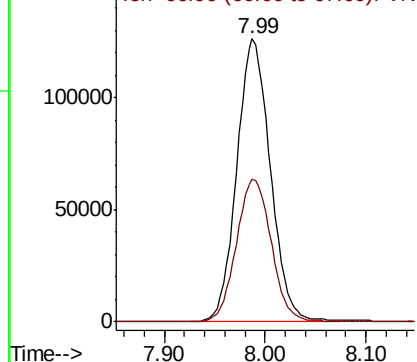


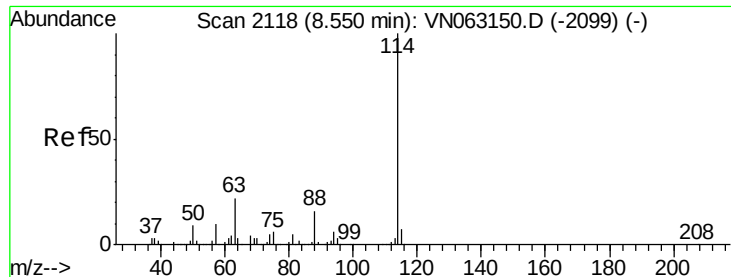
#33
1,2-Dichloroethane-d4
Concen: 47.033 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion: 65 Resp: 291626
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063163.D

Acq: 1 Sep 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

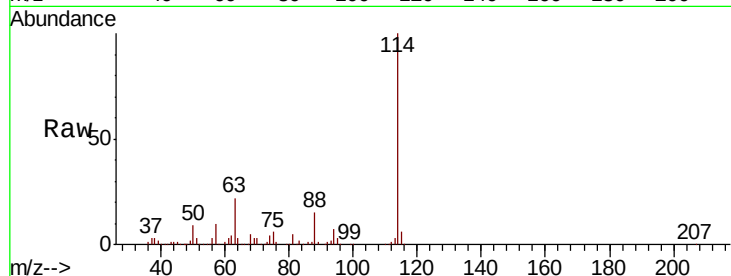
Tot Ion:114 Resp: 729072

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.0

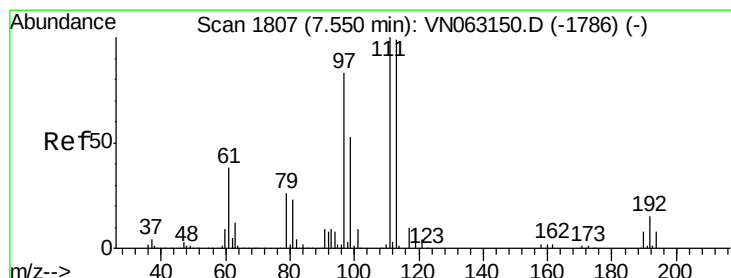
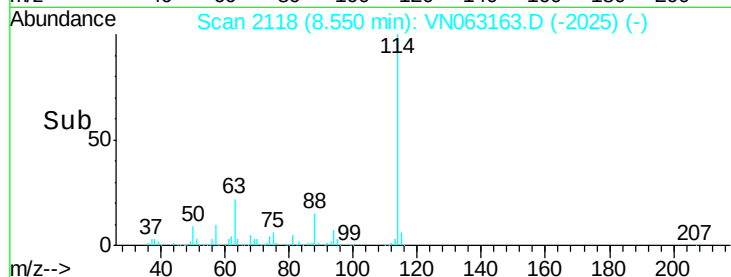
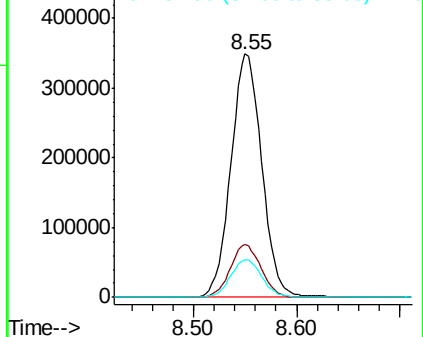
88 15.3 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.390 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063163.D

Acq: 1 Sep 2020 18:29

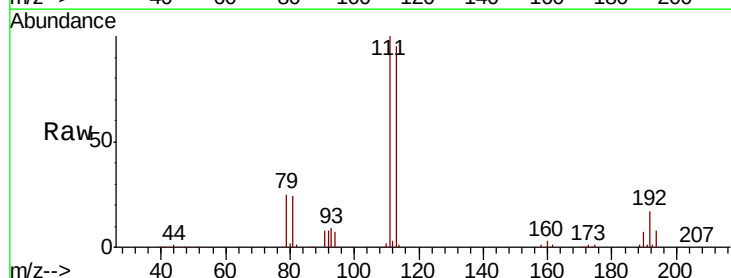
Tgt Ion:113 Resp: 231015

Ion Ratio Lower Upper

113 100

111 103.0 80.7 121.1

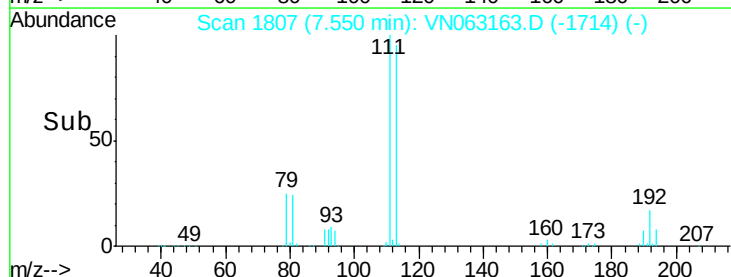
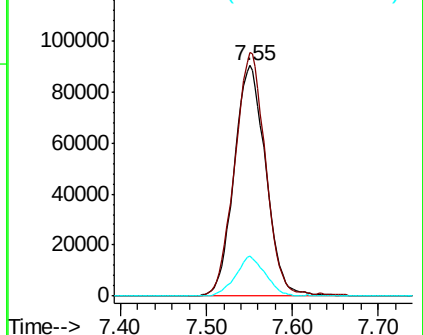
192 16.2 12.6 19.0

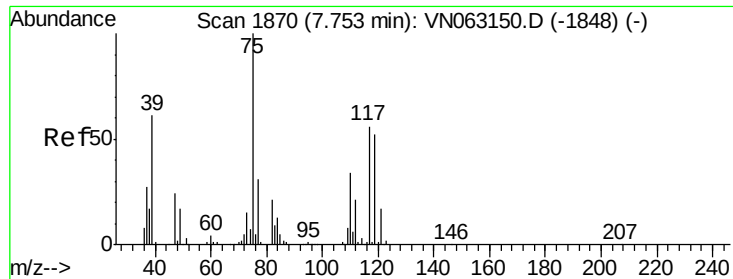


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

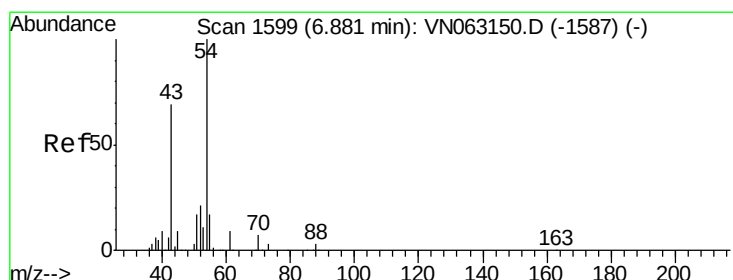
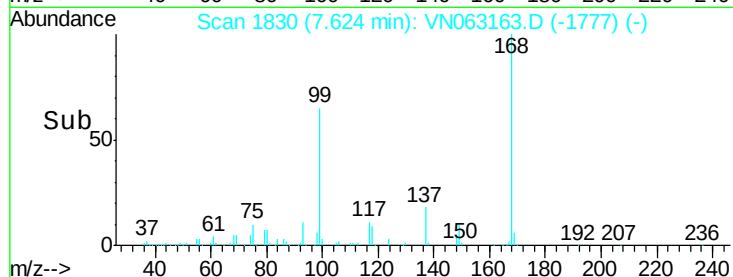
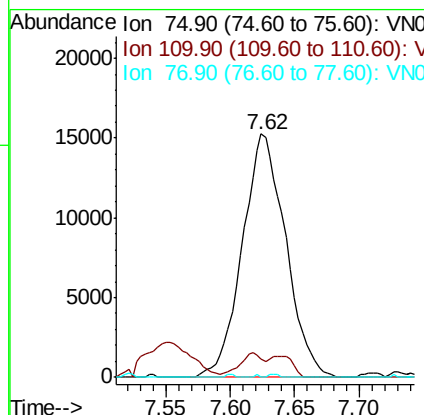
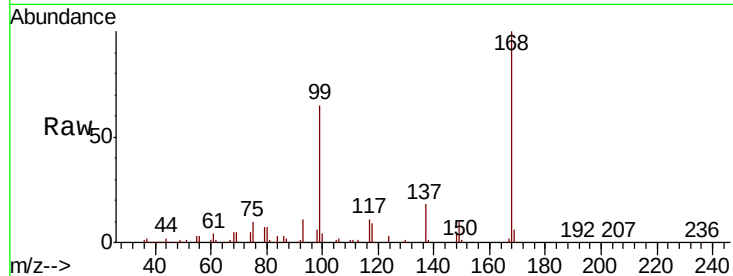




#36
 1,1-Dichloropropene
 Concen: 5.083 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063163.D
 Acq: 1 Sep 2020 18:29

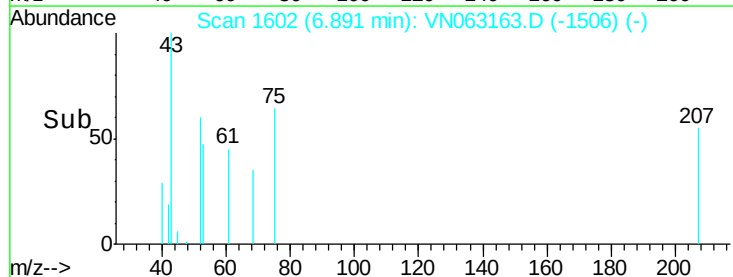
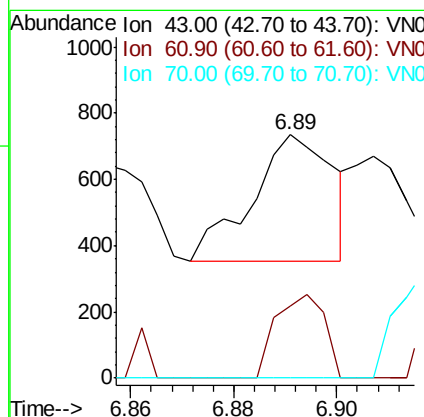
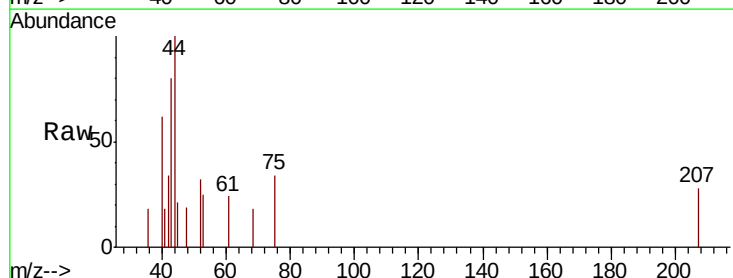
Instrument :
 MSVOA_N
 ClientSampled :

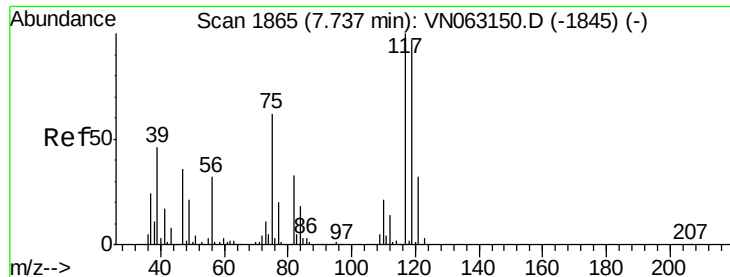
Tot Ion: 75 Resp: 35629
 Ion Ratio Lower Upper
 75 100
 110 5.5 16.6 49.8#
 77 0.1 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 0.442 ug/l
 RT: 6.89 min Scan# 1602
 Delta R.T. 0.01 min
 Lab File: VN063163.D
 Acq: 1 Sep 2020 18:29

Tgt Ion: 43 Resp: 414
 Ion Ratio Lower Upper
 43 100
 61 39.6 10.2 15.4#
 70 0.0 3.0 4.6#

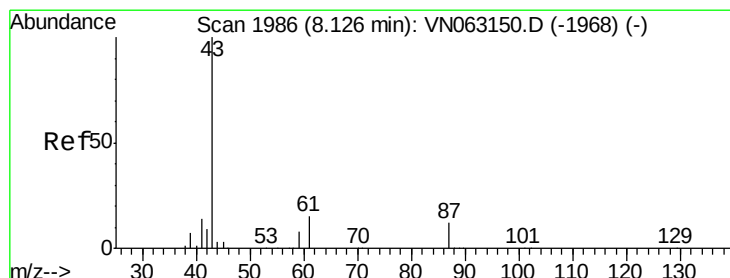
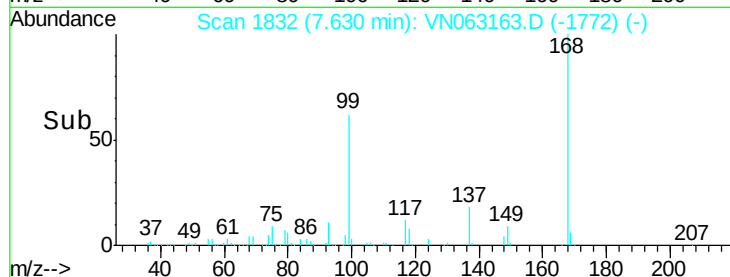
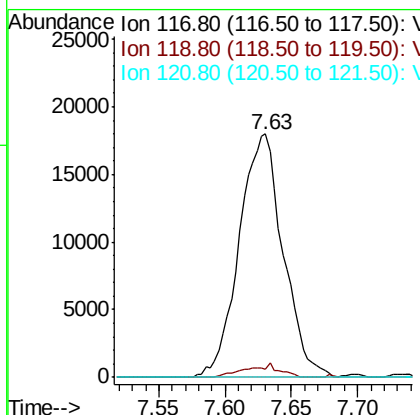
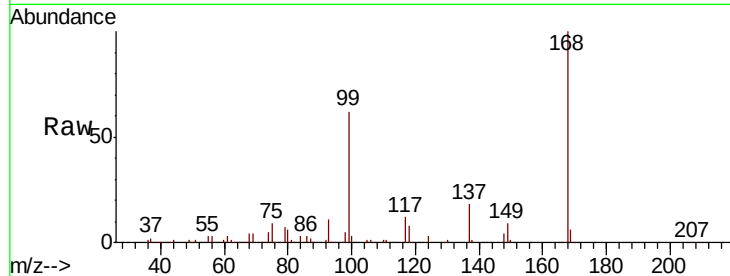




#38
Carbon Tetrachloride
Concen: 5.824 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

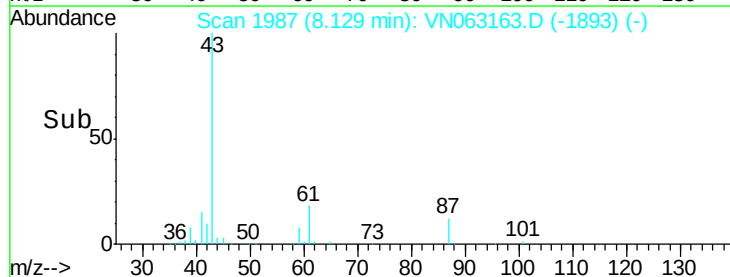
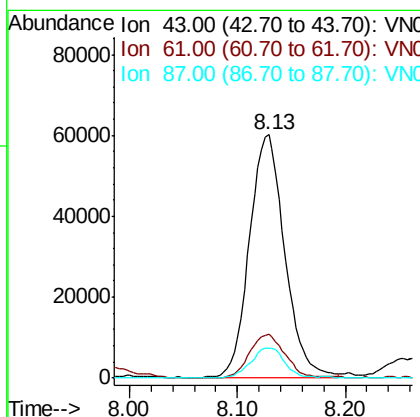
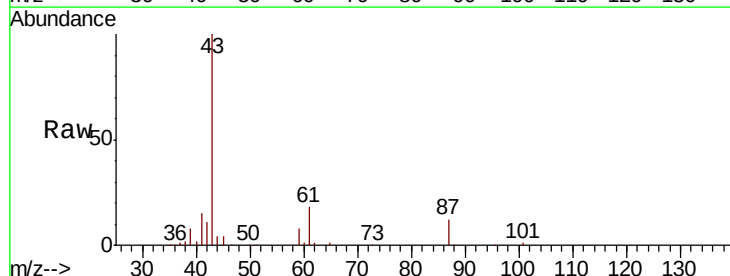
Instrument :
MSVOA_N
ClientSampleId :

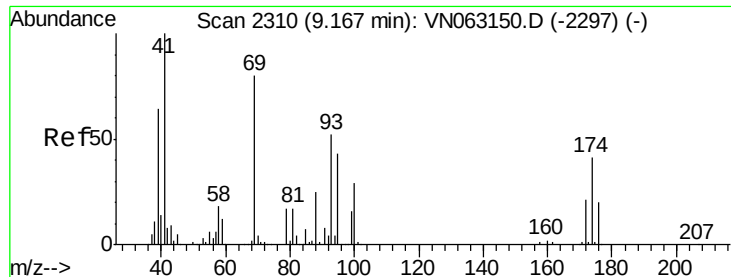
Tot Ion:117 Resp: 41398
Ion Ratio Lower Upper
117 100
119 3.4 77.2 115.8#
121 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 12.031 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion: 43 Resp: 137517
Ion Ratio Lower Upper
43 100
61 18.0 20.2 30.4#
87 11.9 9.8 14.6

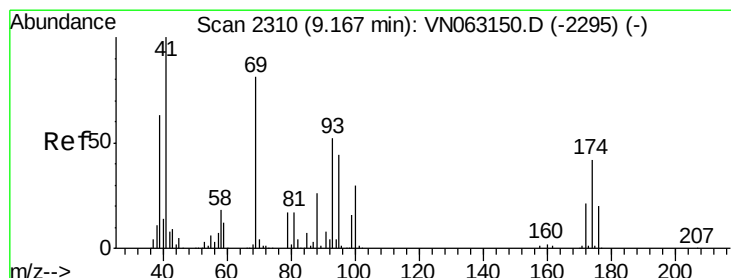
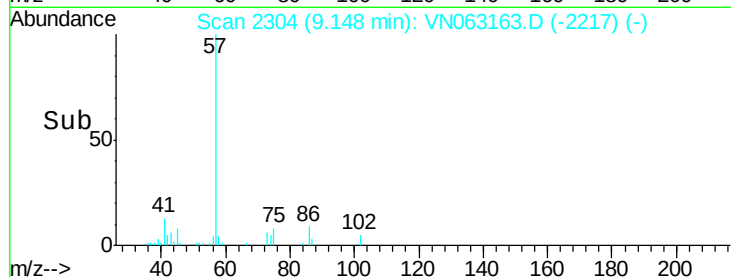
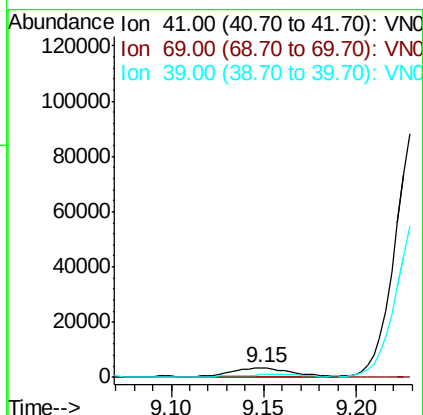
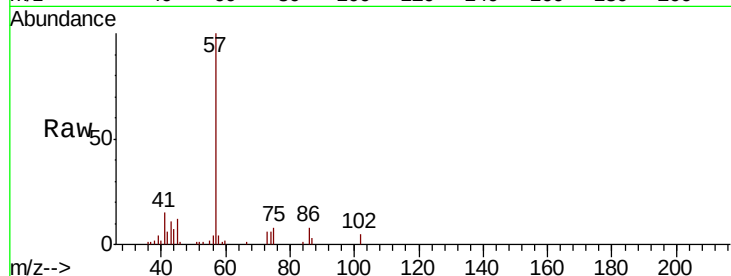




#48
Methvl methacrylate
Concen: 1.259 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

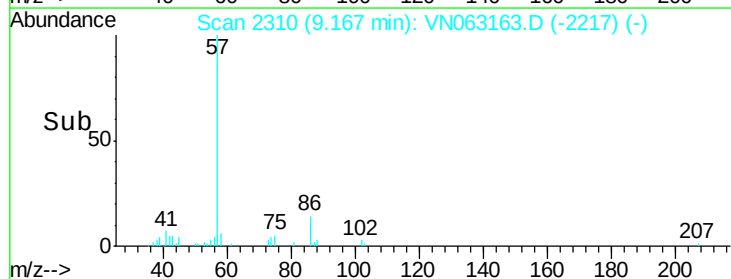
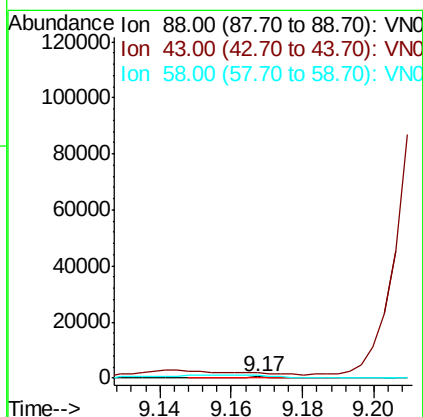
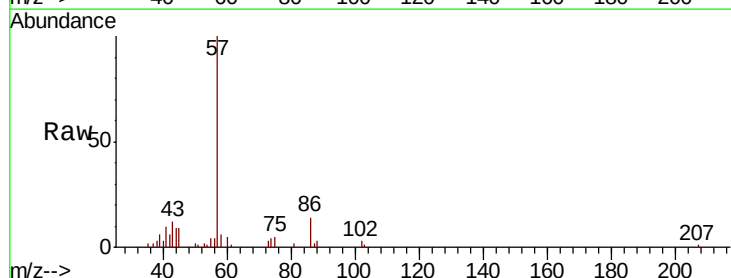
Instrument :
MSVOA_N
ClientSampled :

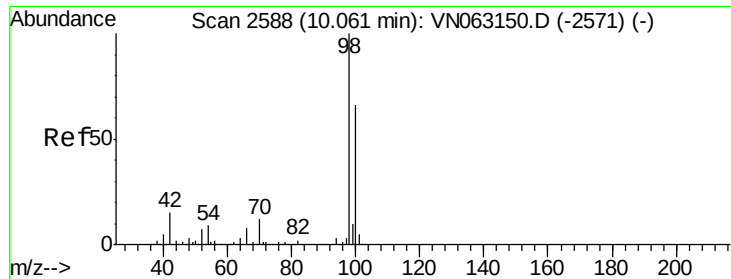
Tot Ion: 41 Resp: 6485
Ion Ratio Lower Upper
41 100
69 2.9 65.9 98.9#
39 0.0 52.0 78.0#



#49
1,4-Dioxane
Concen: 5.822 ug/l
RT: 9.17 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion: 88 Resp: 464
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 540.3 53.2 79.8#

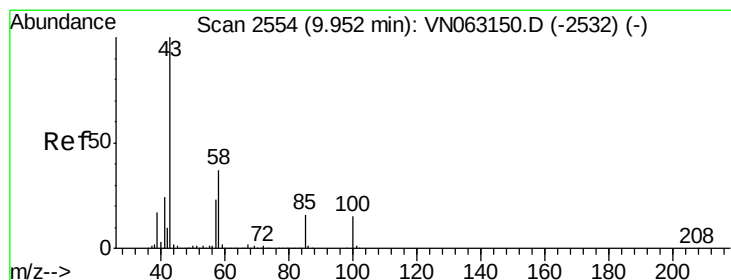
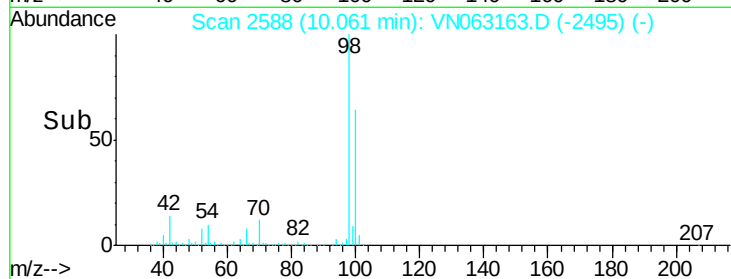
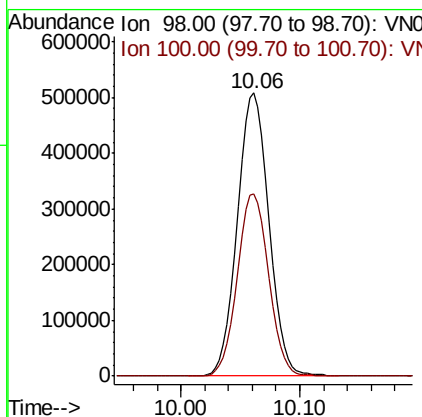
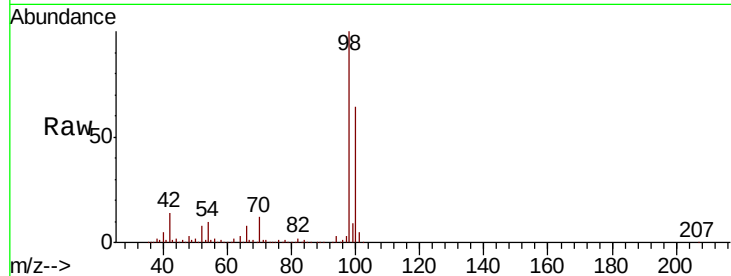




#50
Toluene-d8
Concen: 51.963 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

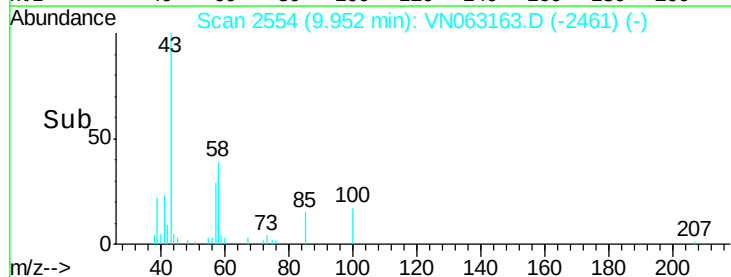
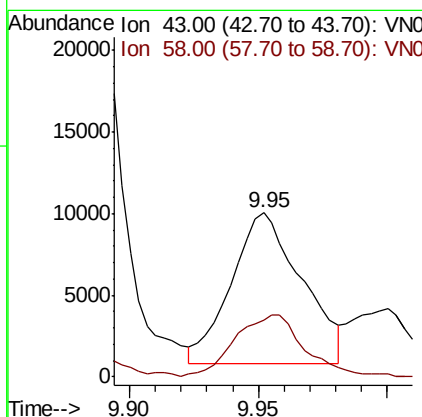
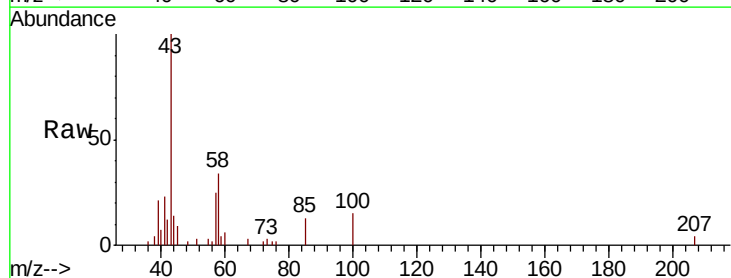
Instrument :
MSVOA_N
ClientSampled :

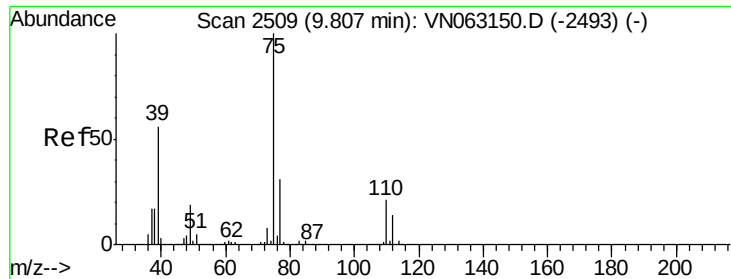
Tot Ion: 98 Resp: 935510
Ion Ratio Lower Upper
98 100
100 64.1 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.836 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion: 43 Resp: 17613
Ion Ratio Lower Upper
43 100
58 41.0 29.2 43.8



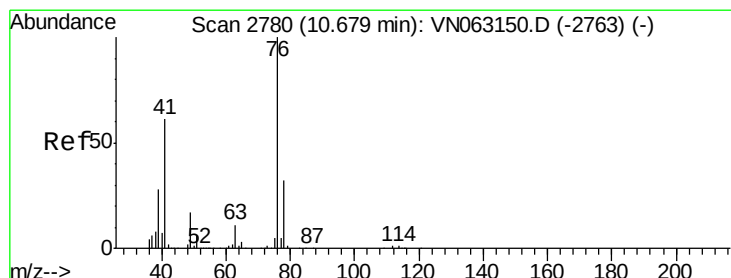
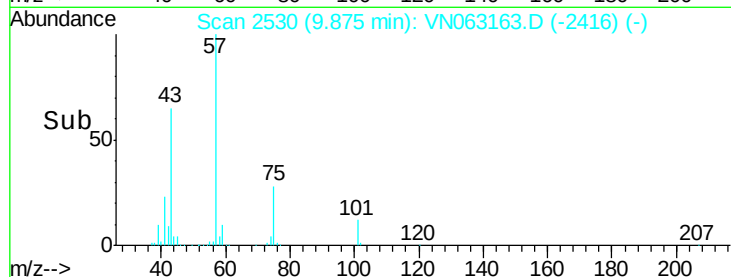
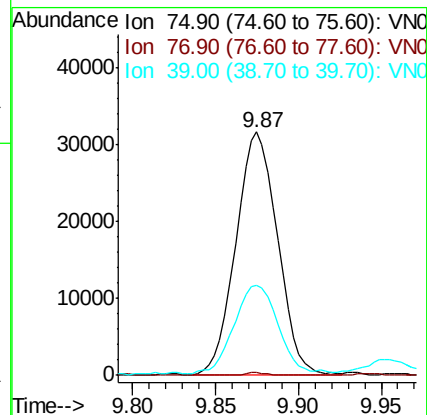
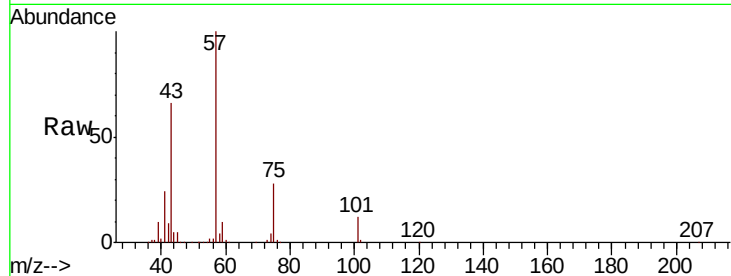


#54

cis-1,3-Dichloropropene
 Concen: 6.250 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063163.D
 Acq: 1 Sep 2020 18:29

Instrument :
 MSVOA_N
 ClientSampleId :

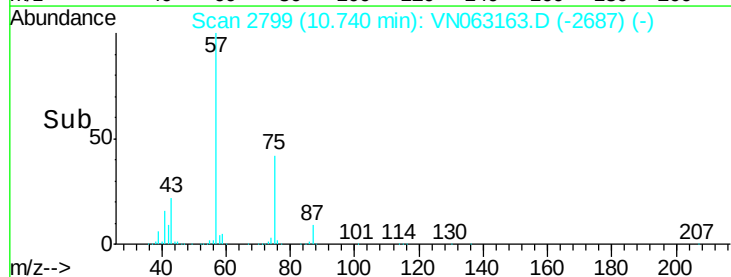
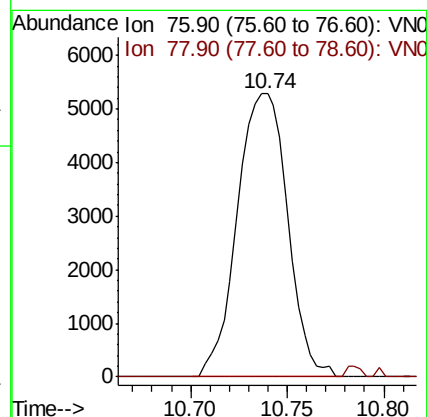
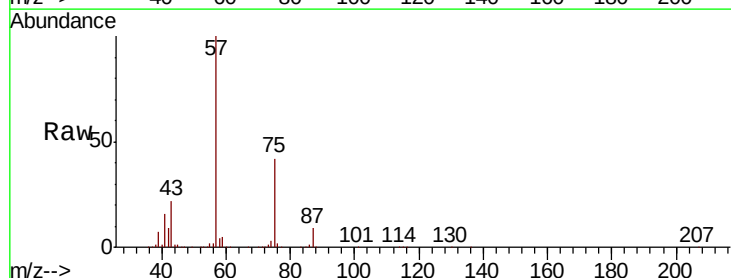
Tot Ion: 75 Resp: 55593
 Ion Ratio Lower Upper
 75 100
 77 1.1 24.8 37.2#
 39 36.5 45.0 67.6#

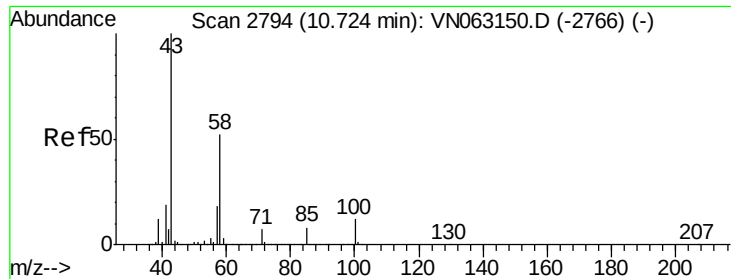


#57

1,3-Dichloropropane
 Concen: 1.092 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.06 min
 Lab File: VN063163.D
 Acq: 1 Sep 2020 18:29

Tgt Ion: 76 Resp: 9563
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#

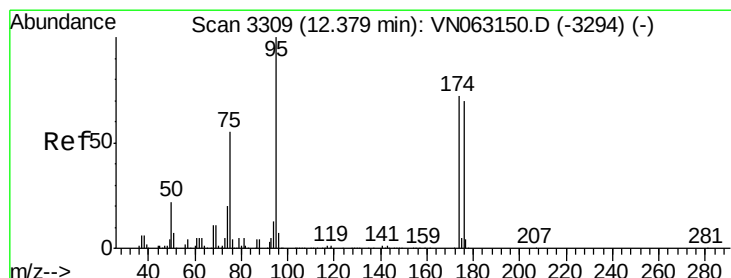
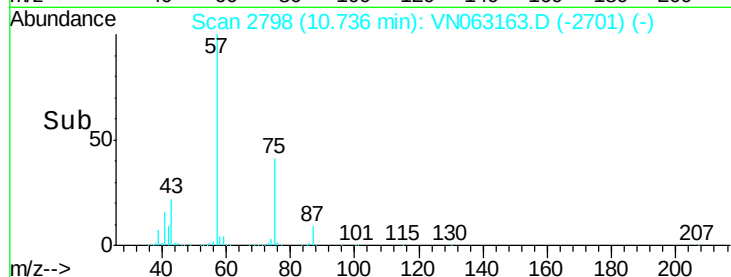
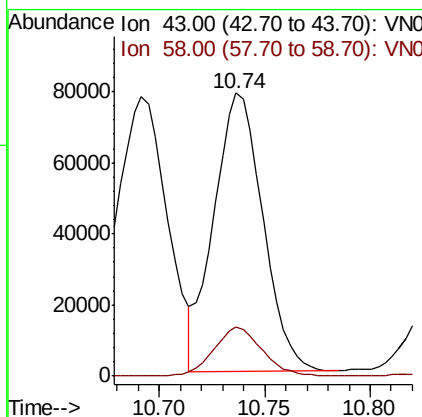
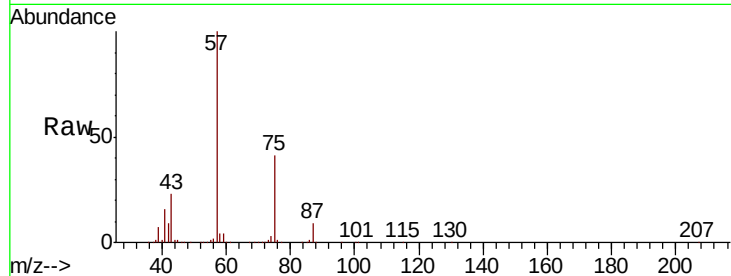




#59
2-Hexanone
Concen: 28.847 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

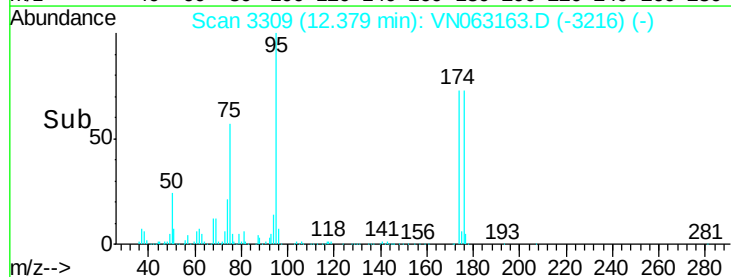
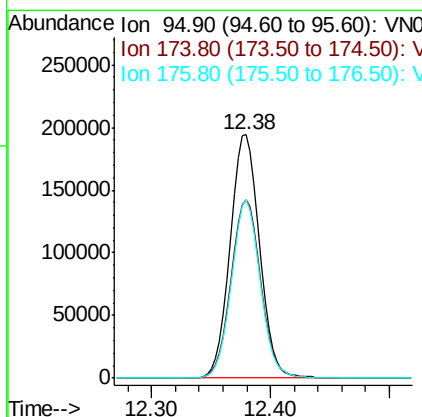
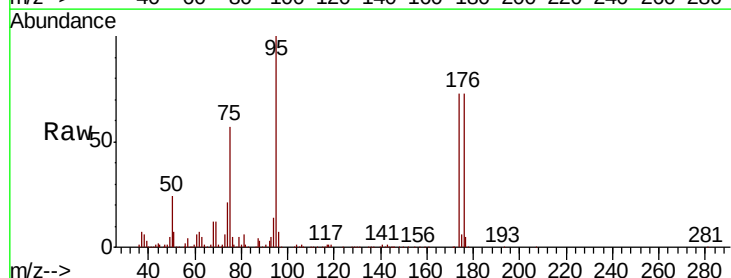
Instrument :
MSVOA_N
ClientSampleId :

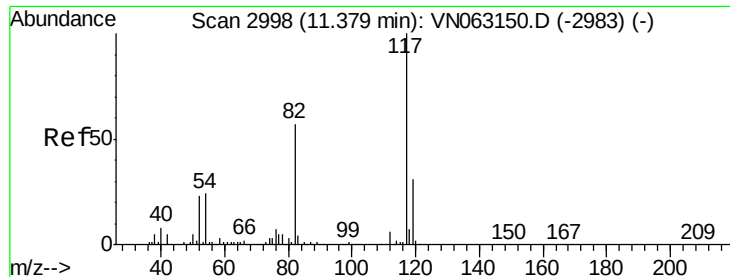
Tot Ion: 43 Resp: 125925
Ion Ratio Lower Upper
43 100
58 17.8 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 52.927 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion: 95 Resp: 333313
Ion Ratio Lower Upper
95 100
174 74.1 0.0 143.8
176 71.6 0.0 138.4

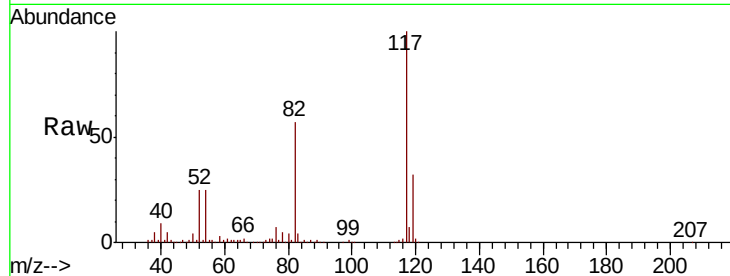




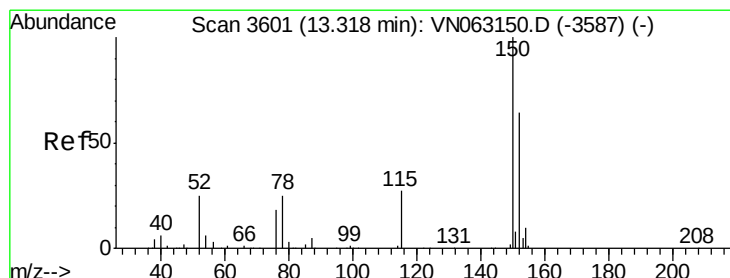
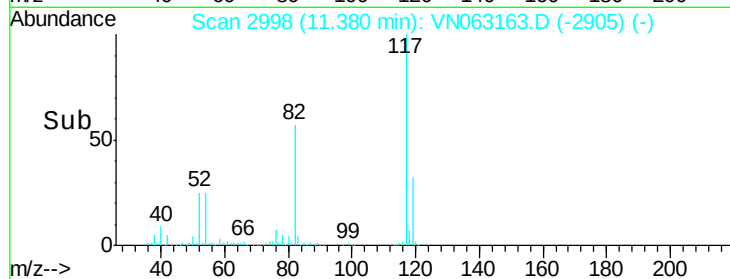
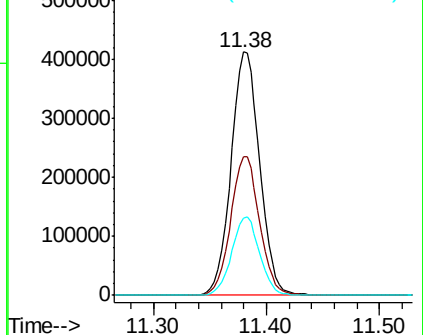
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 726802
Ion Ratio Lower Upper
117 100
82 56.7 45.4 68.0
119 31.7 24.6 37.0

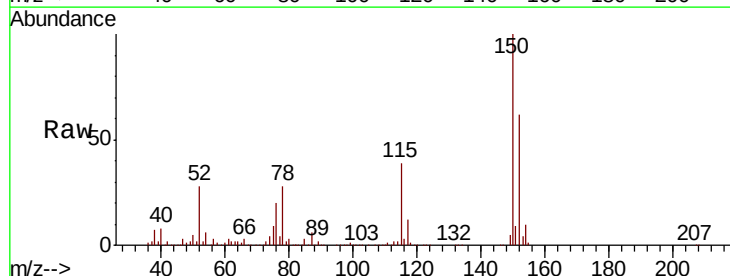


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

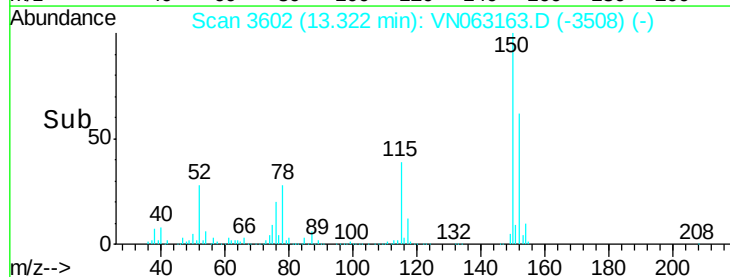
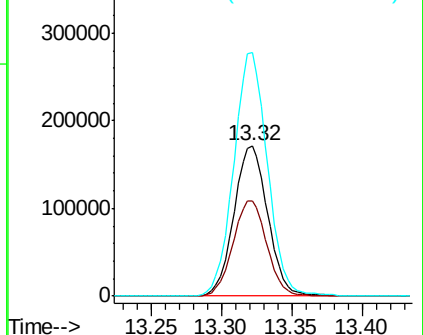


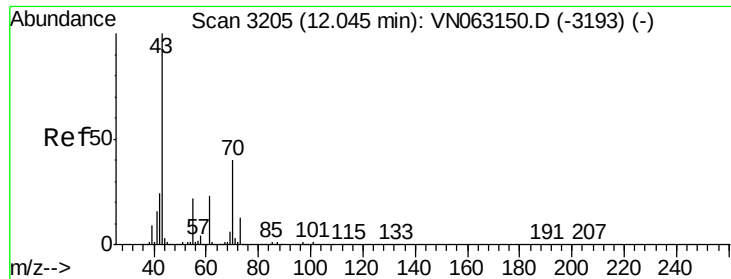
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3602
Delta R.T. 0.00 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion:152 Resp: 288768
Ion Ratio Lower Upper
152 100
115 63.2 32.0 96.2
150 161.4 0.0 353.0



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

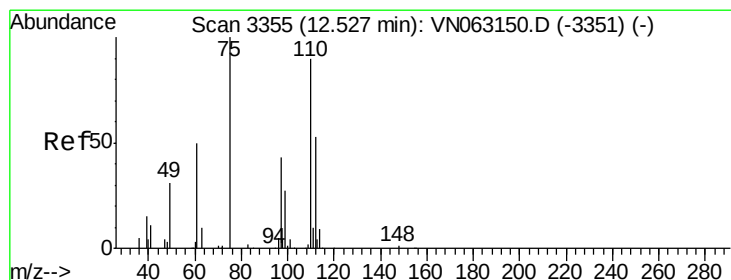
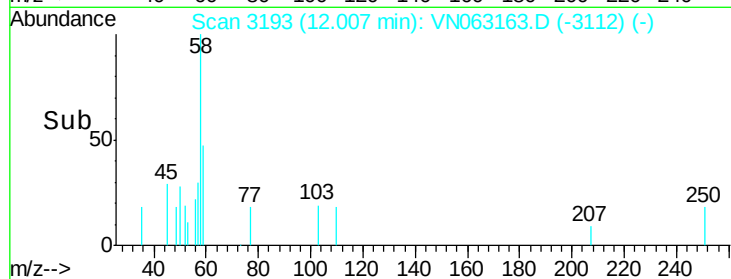
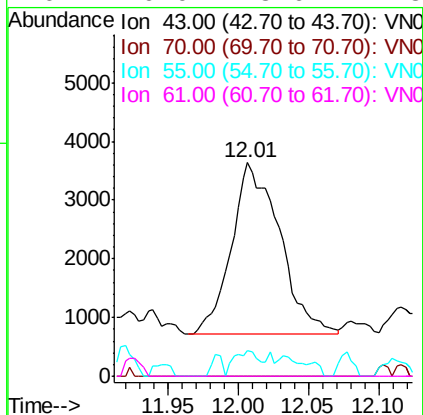
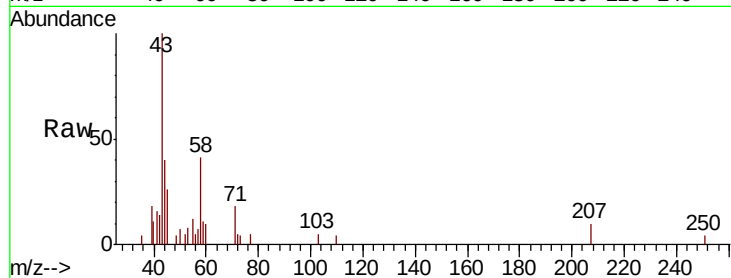




#74
N-amvl acetate
Concen: 0.758 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

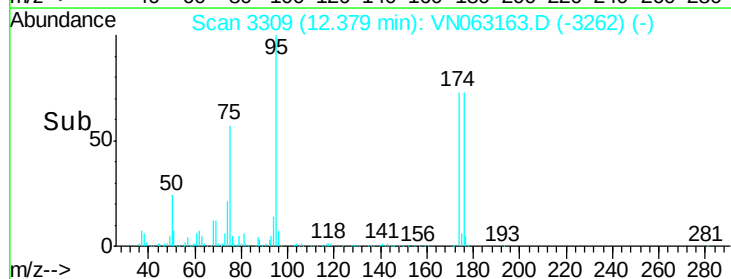
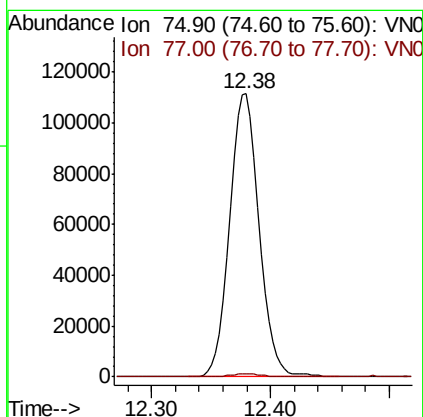
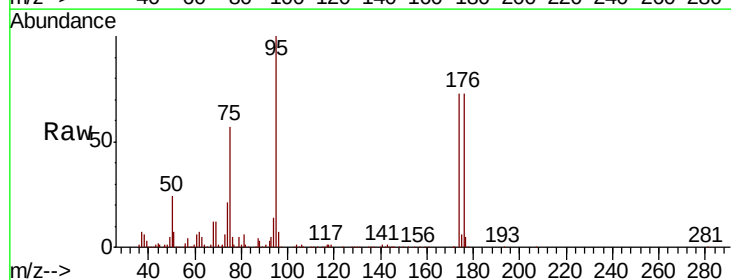
Instrument :
MSVOA_N
ClientSampled :

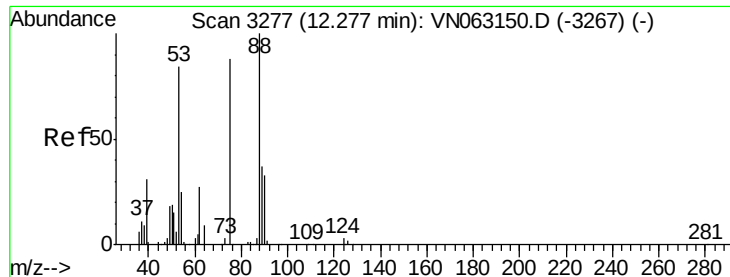
Tot Ion: 43 Resp: 6954
Ion Ratio Lower Upper
43 100
70 0.0 32.1 48.1#
55 8.2 17.4 26.0#
61 0.0 18.6 27.8#



#76
1,2,3-Trichloropropane
Concen: 33.690 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. -0.15 min
Lab File: VN063163.D
Acq: 1 Sep 2020 18:29

Tgt Ion: 75 Resp: 191148
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 81.429 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN063163.D

Acq: 1 Sep 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

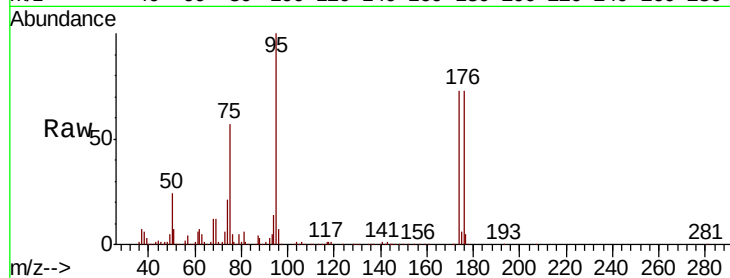
Tot Ion: 75 Resp: 191148

Ion Ratio Lower Upper

75 100

53 0.2 78.7 118.1#

89 0.1 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VNO
150000 Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

