

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090120\
 Data File : VN063176.D
 Acq On : 1 Sep 2020 23:40
 Operator : JC/MD
 Sample : L3853-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 04:09:23 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	375790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	735186	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	737707	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	302341	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	304276	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	7.55	113	232523	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
50) Toluene-d8	10.06	98	949011	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	
62) 4-Bromofluorobenzene	12.38	95	346005	54.49	ug/l	0.00
Spiked Amount			Recovery	=	108.98%	

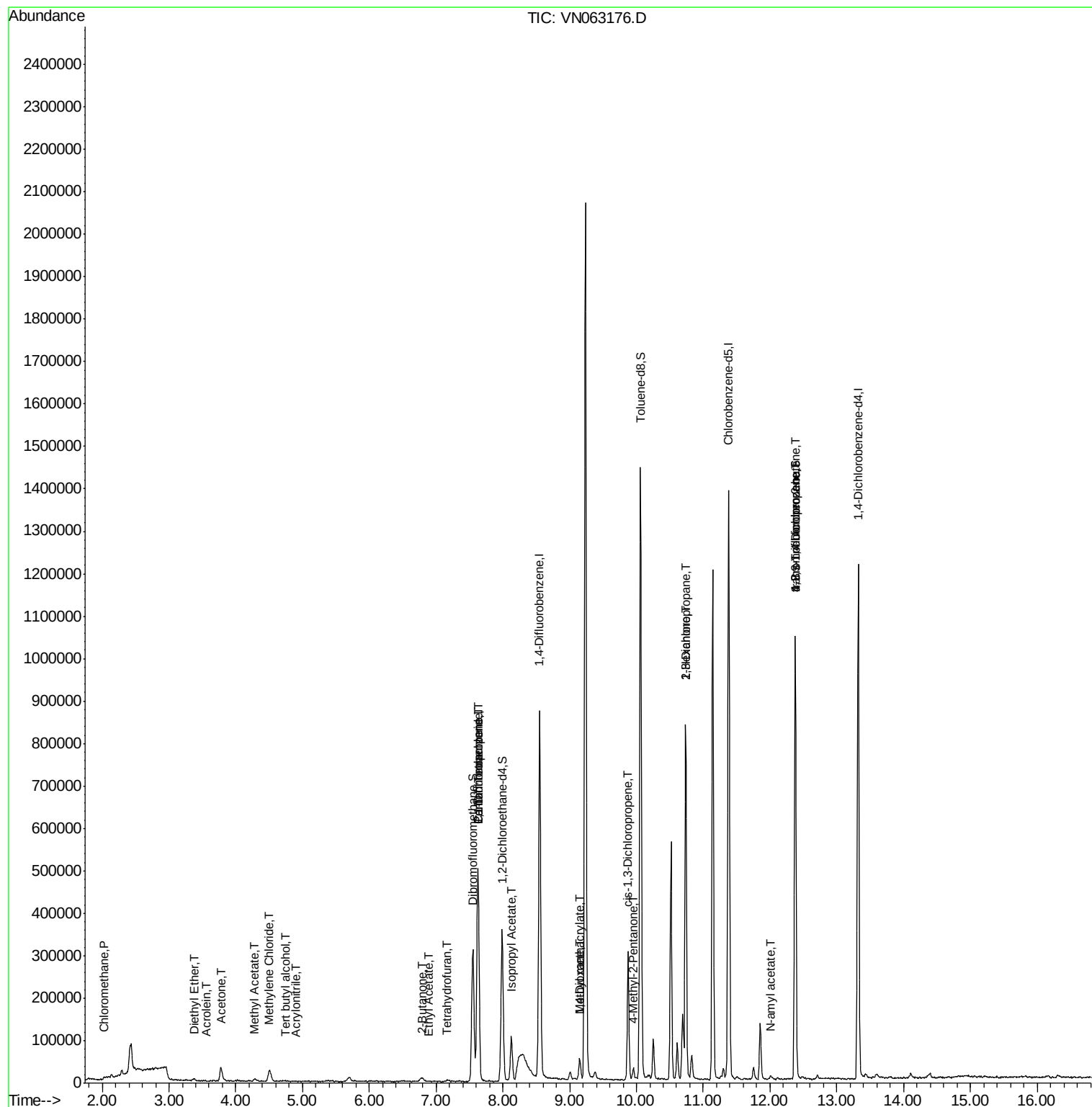
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2850	0.529	ug/l #	87
7) Trichlorofluoromethane	2.96	101	67	Below Cal	#	1
8) Diethyl Ether	3.37	74	1323	0.464	ug/l #	1
11) Tert butyl alcohol	4.73	59	1258	1.668	ug/l #	72
13) Acrolein	3.56	56	60	15.965	ug/l #	15
15) Acrylonitrile	4.89	53	69	2.436	ug/l #	1
16) Acetone	3.78	43	51943	29.745	ug/l #	89
18) Methyl Acetate	4.27	43	3694	0.825	ug/l	91
20) Methylene Chloride	4.51	84	18903	3.391	ug/l #	94
25) 2-Butanone	6.79	43	10741	3.972	ug/l #	78
29) Tetrahydrofuran	7.16	42	1315	0.703	ug/l #	60
31) Cyclohexane	7.62	56	11624	Below Cal	#	47
36) 1,1-Dichloropropene	7.62	75	36116	5.110	ug/l #	49
37) Ethyl Acetate	6.89	43	371	0.435	ug/l #	72
38) Carbon Tetrachloride	7.62	117	42349	5.908	ug/l #	16
43) Isopropyl Acetate	8.13	43	126694	10.992	ug/l #	90
48) Methyl methacrylate	9.14	41	6371	1.226	ug/l #	13
49) 1,4-Dioxane	9.16	88	141	1.754	ug/l #	25
51) 4-Methyl-2-Pentanone	9.96	43	16491	2.633	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	52270	5.828	ug/l #	67
57) 1,3-Dichloropropane	10.74	76	8728	0.989	ug/l #	43
59) 2-Hexanone	10.74	43	125970	28.617	ug/l #	53
74) N-amyl acetate	12.01	43	6969	0.726	ug/l #	55
76) 1,2,3-Trichloropropane	12.38	75	199476	33.580	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	199476	81.162	ug/l #	10

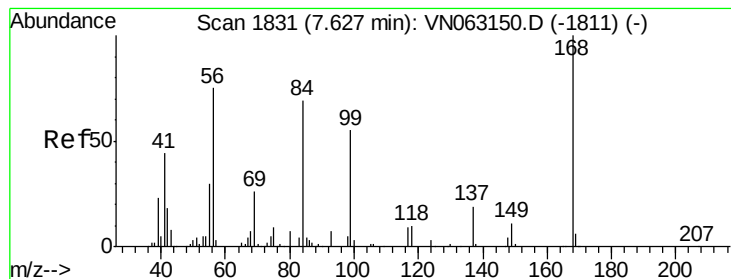
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 01 04:21:28 2020
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: VN063176.D

Acq: 1 Sep 2020 23:40

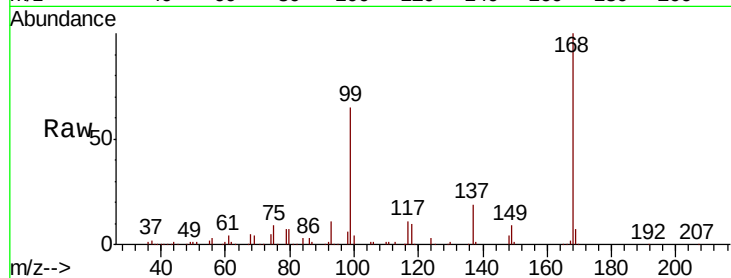
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 375790

Ion Ratio Lower Upper

168 100

99 64.6 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

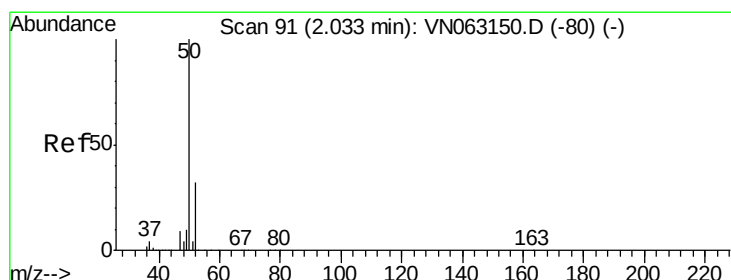
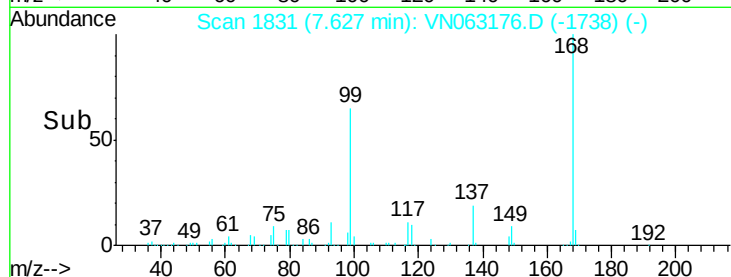
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.529 ug/l

RT: 2.03 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN063176.D

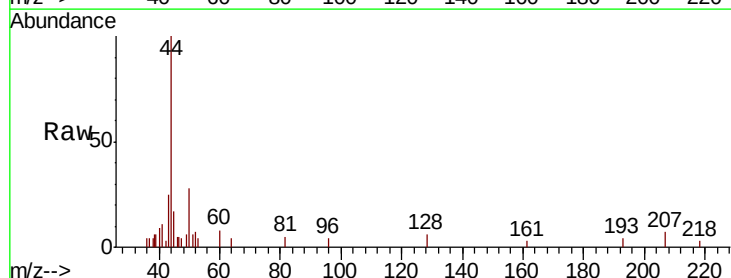
Acq: 1 Sep 2020 23:40

Tgt Ion: 50 Resp: 2850

Ion Ratio Lower Upper

50 100

52 25.1 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

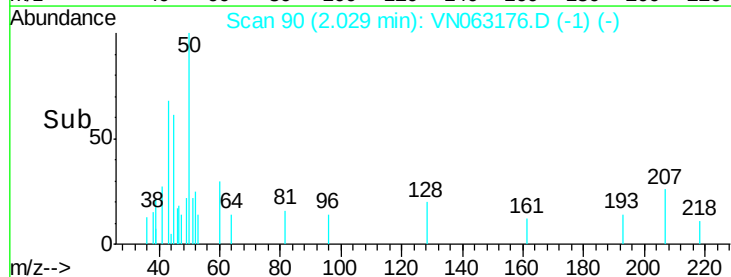
1500

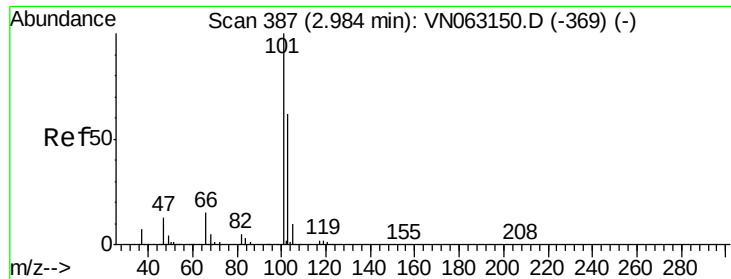
1000

500

0

Time--> 2.00 2.05 2.10



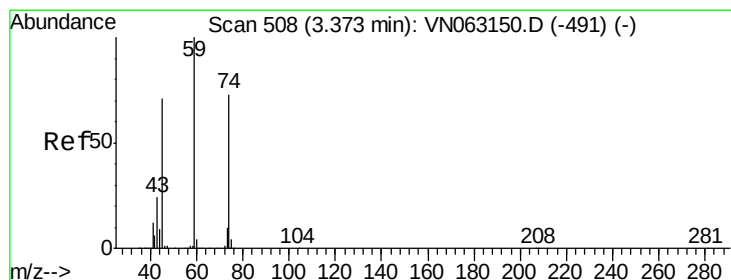
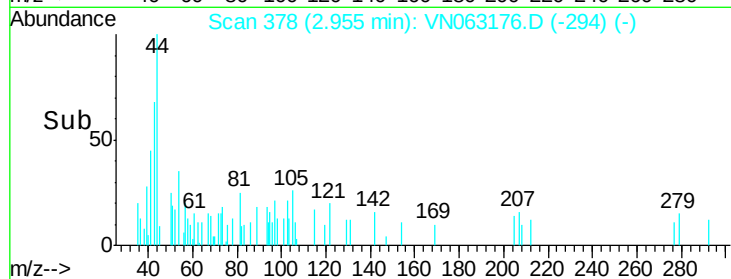
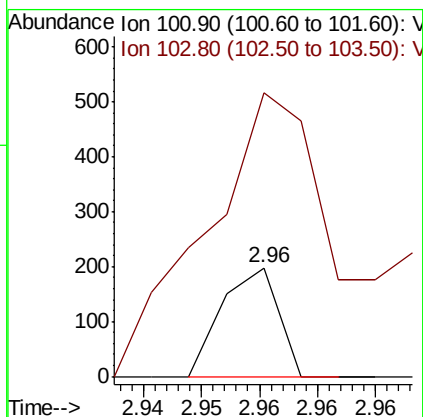
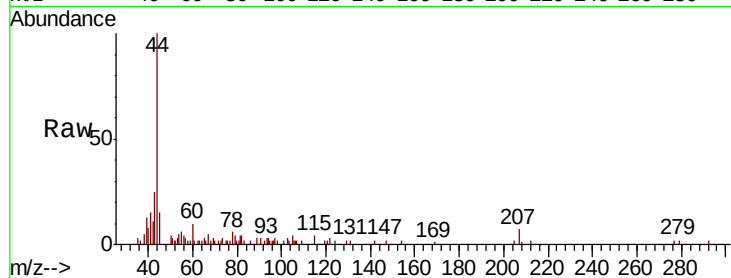


#7

Trichlorofluoromethane
Concen: Below Cal
RT: 2.96 min Scan# 378
Delta R.T. -0.03 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Instrument :
MSVOA_N
ClientSampled :

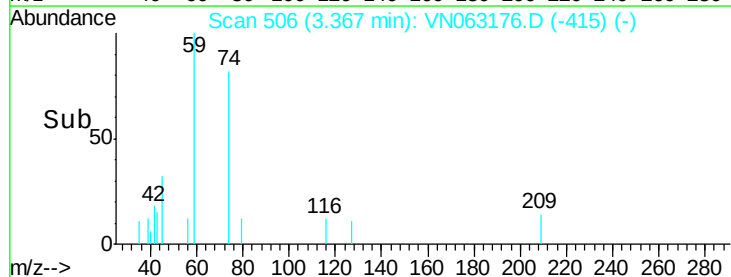
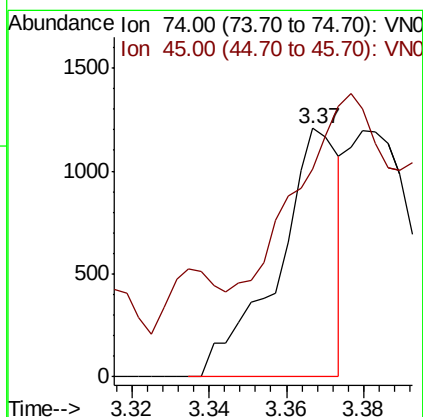
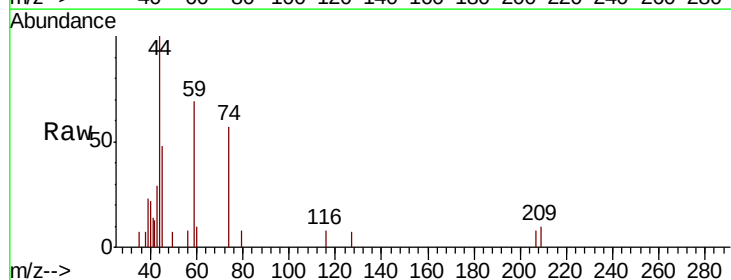
Tot Ion:101 Resp: 67
Ion Ratio Lower Upper
101 100
103 171.2 49.7 74.5#

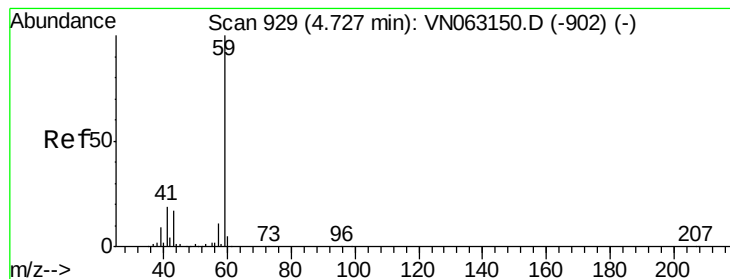


#8

Diethyl Ether
Concen: 0.464 ug/l
RT: 3.37 min Scan# 506
Delta R.T. -0.01 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Tgt Ion: 74 Resp: 1323
Ion Ratio Lower Upper
74 100
45 201.0 49.5 148.5#



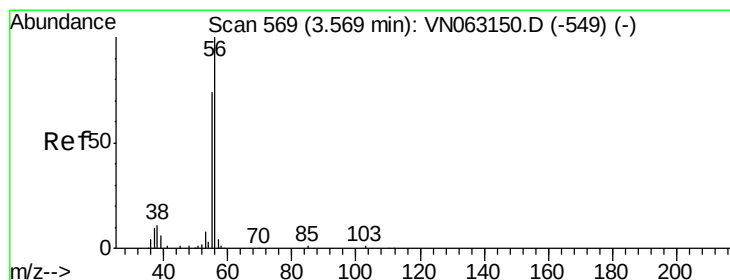
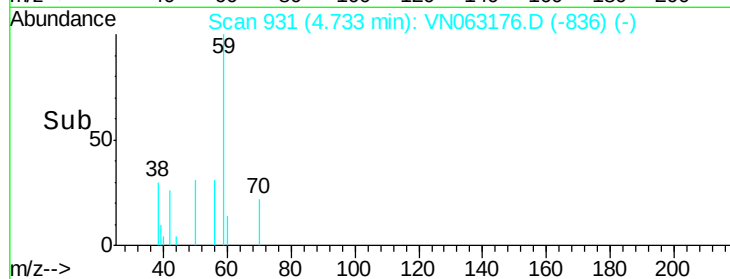
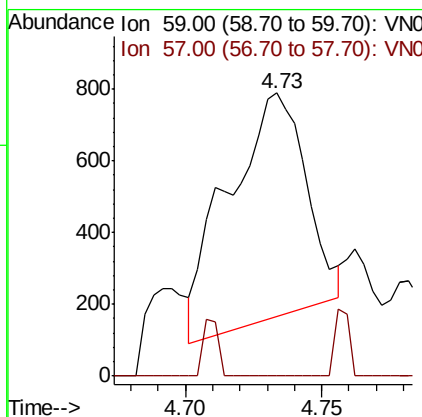
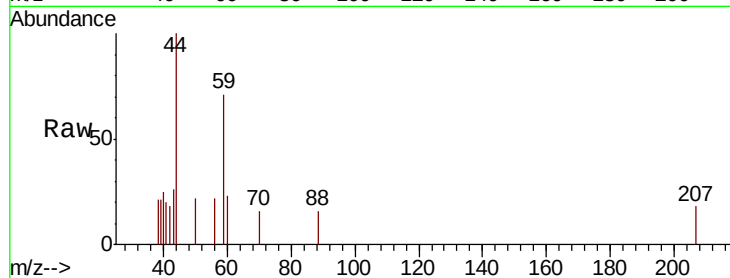


#11

Tert butyl alcohol
 Concen: 1.668 ug/l
 RT: 4.73 min Scan# 931
 Delta R.T. 0.01 min
 Lab File: VN063176.D
 Acq: 1 Sep 2020 23:40

Instrument :
 MSVOA_N
 ClientSampled :

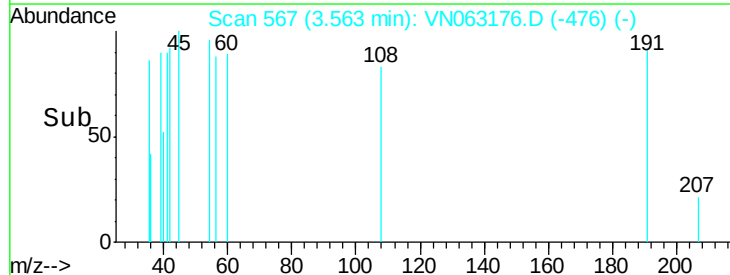
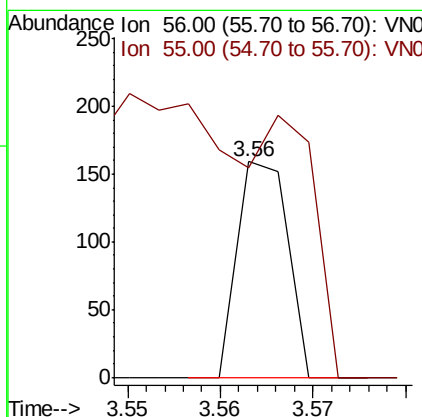
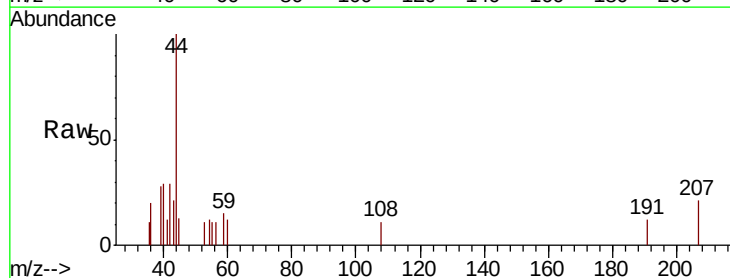
Tot Ion: 59 Resp: 1258
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

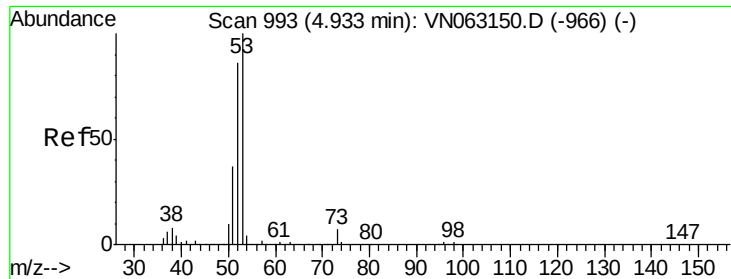


#13

Acrolein
 Concen: 15.965 ug/l
 RT: 3.56 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VN063176.D
 Acq: 1 Sep 2020 23:40

Tgt Ion: 56 Resp: 60
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.4 83.0#

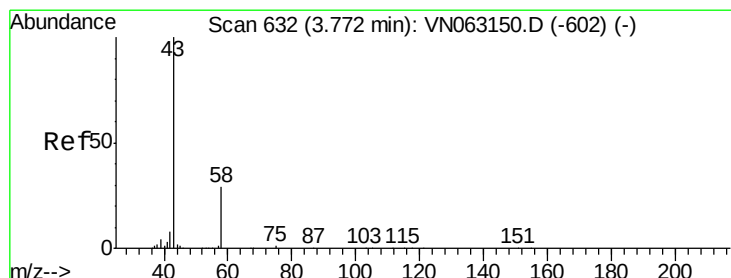
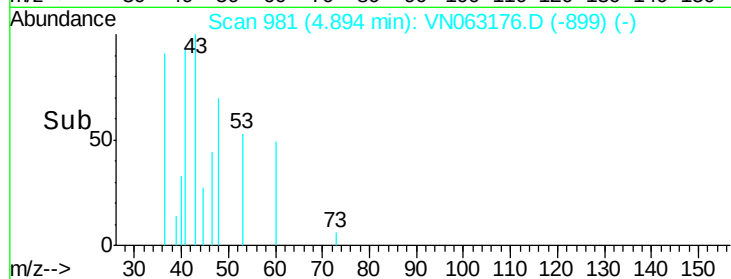
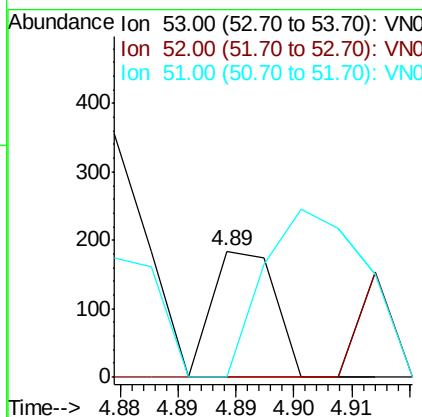
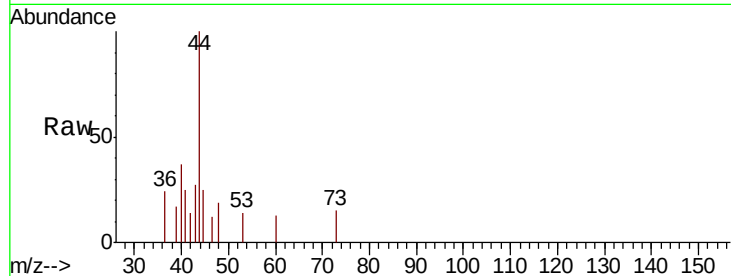




#15
 Acrylonitrile
 Concen: 2.436 ug/l
 RT: 4.89 min Scan# 981
 Delta R.T. -0.04 min
 Lab File: VN063176.D
 Acq: 1 Sep 2020 23:40

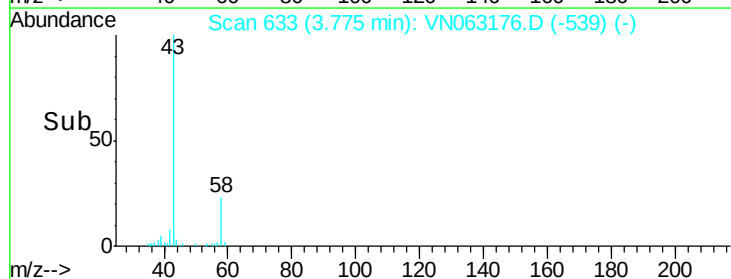
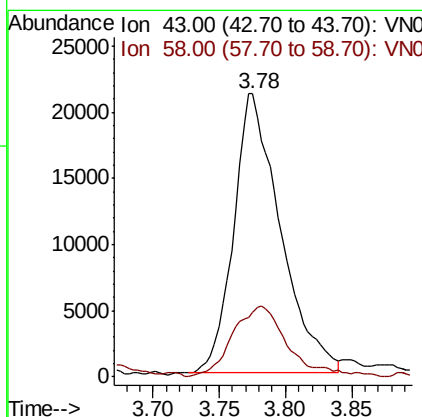
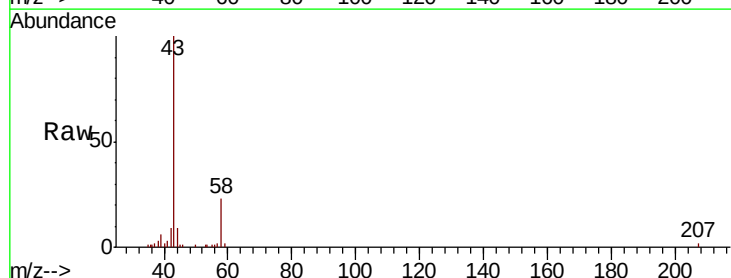
Instrument :
 MSVOA_N
 ClientSampled :

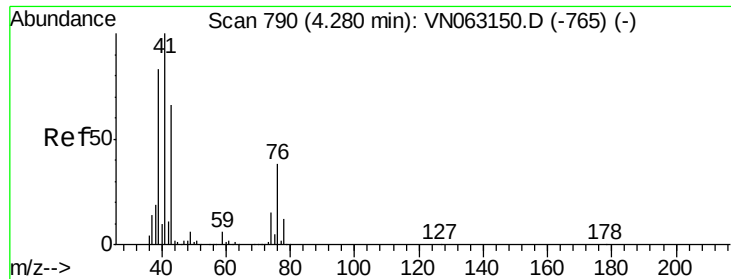
Tot Ion: 53 Resp: 69
 Ion Ratio Lower Upper
 53 100
 52 43.5 67.2 100.8#
 51 217.4 30.2 45.4#



#16
 Acetone
 Concen: 29.745 ug/l
 RT: 3.78 min Scan# 633
 Delta R.T. 0.00 min
 Lab File: VN063176.D
 Acq: 1 Sep 2020 23:40

Tgt Ion: 43 Resp: 51943
 Ion Ratio Lower Upper
 43 100
 58 23.1 23.1 34.7#

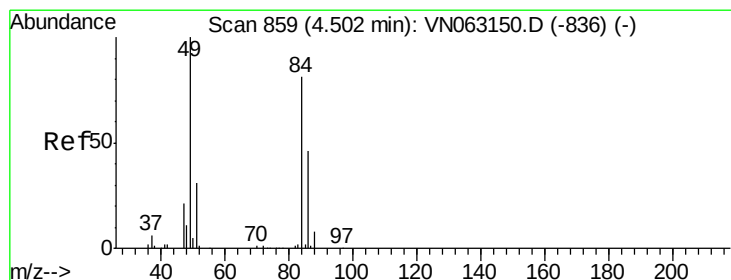
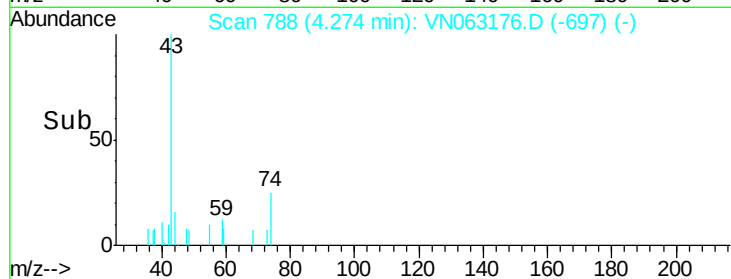
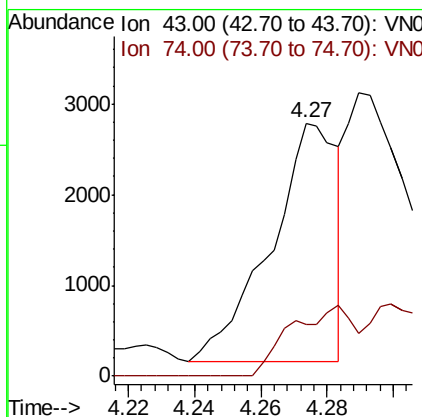
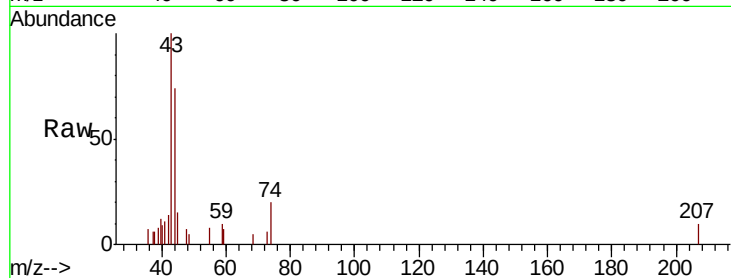




#18
Methyl Acetate
Concen: 0.825 ug/l
RT: 4.27 min Scan# 788
Delta R.T. -0.01 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

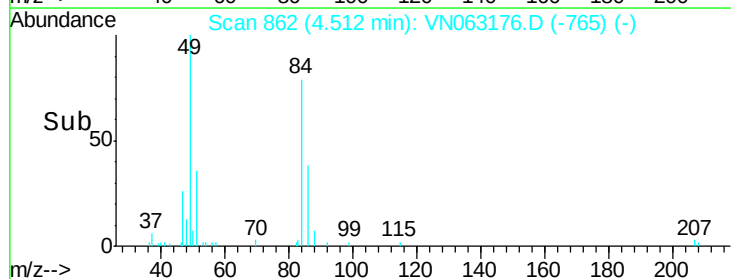
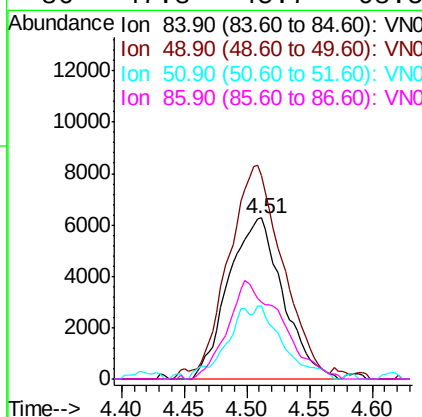
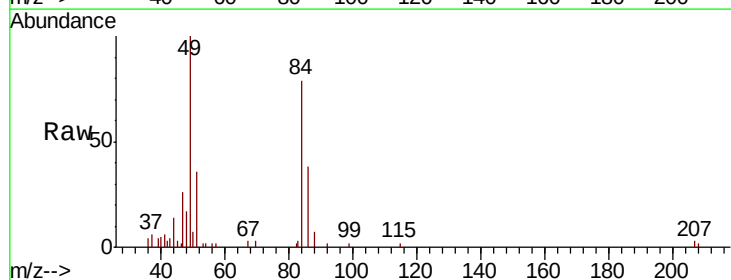
Instrument :
MSVOA_N
ClientSampleId :

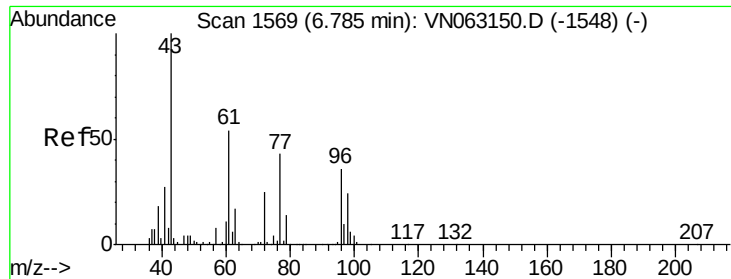
Tot Ion: 43 Resp: 3694
Ion Ratio Lower Upper
43 100
74 28.0 19.0 28.6



#20
Methylene Chloride
Concen: 3.391 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Tgt Ion: 84 Resp: 18903
Ion Ratio Lower Upper
84 100
49 121.6 98.4 147.6
51 45.7 30.4 45.6#
86 47.8 45.7 68.5





#25

2-Butanone

Concen: 3.972 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

Instrument :

MSVOA_N

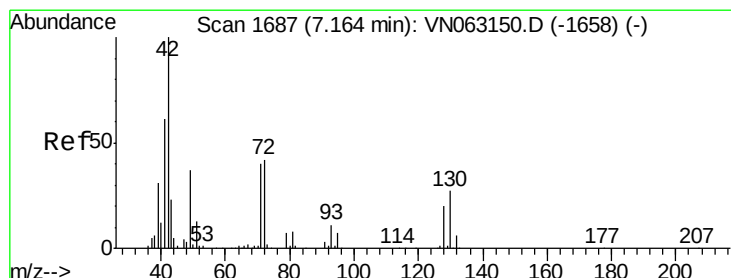
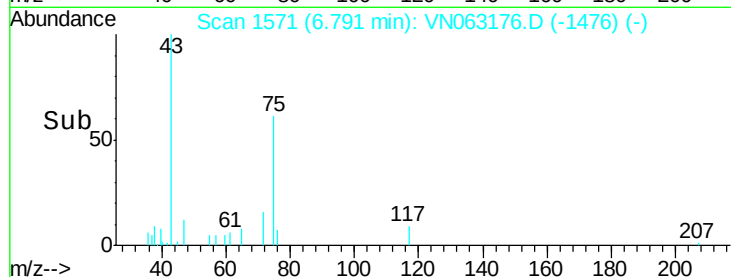
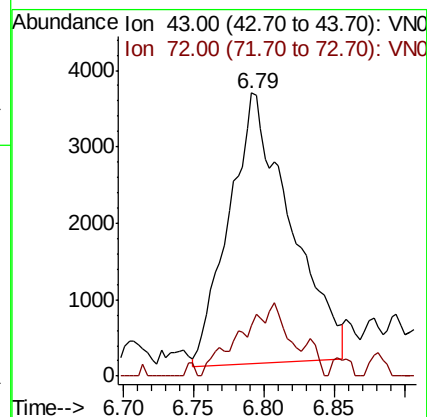
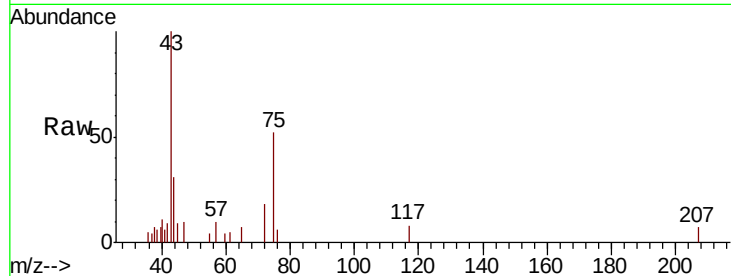
ClientSampled :

Tot Ion: 43 Resp: 10741

Ion Ratio Lower Upper

43 100

72 14.1 20.2 30.4#



#29

Tetrahydrofuran

Concen: 0.703 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

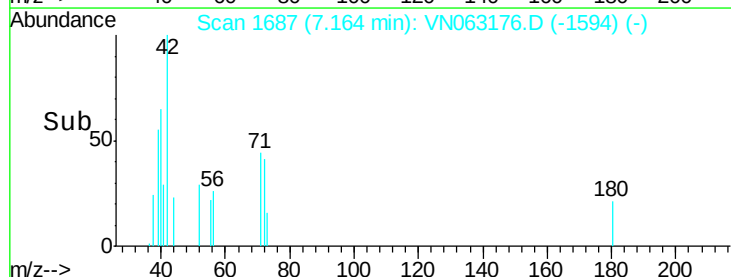
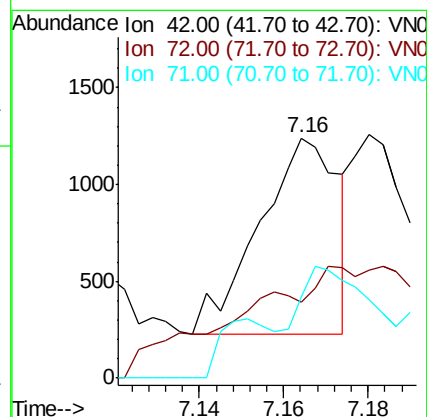
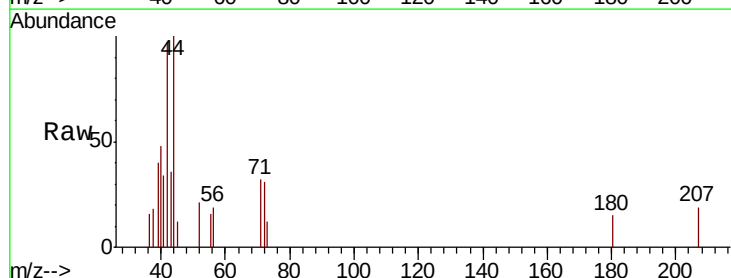
Tgt Ion: 42 Resp: 1315

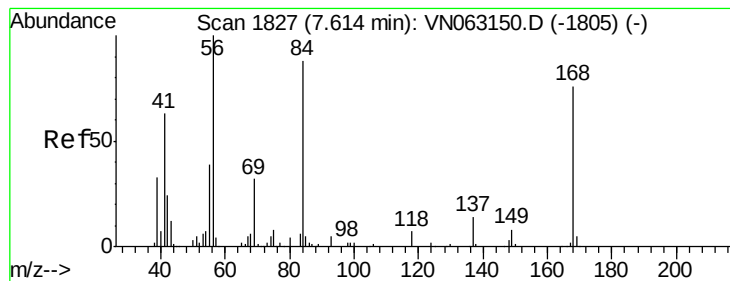
Ion Ratio Lower Upper

42 100

72 8.3 33.9 50.9#

71 55.4 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

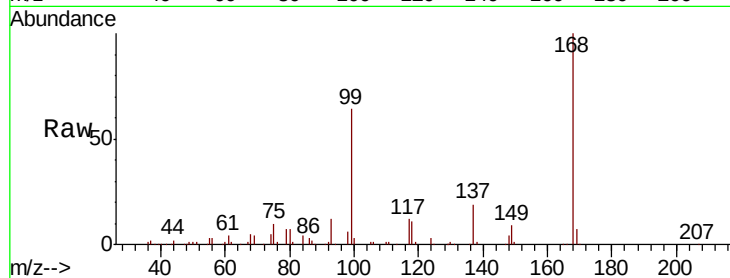
Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

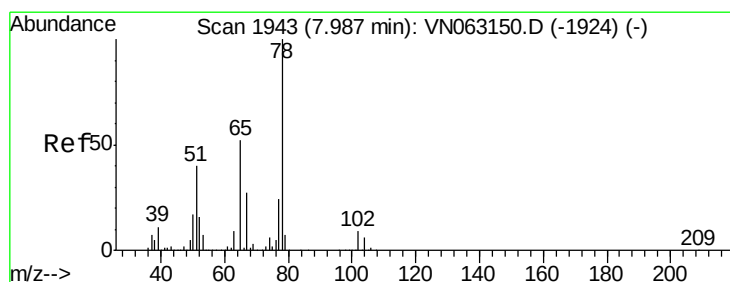
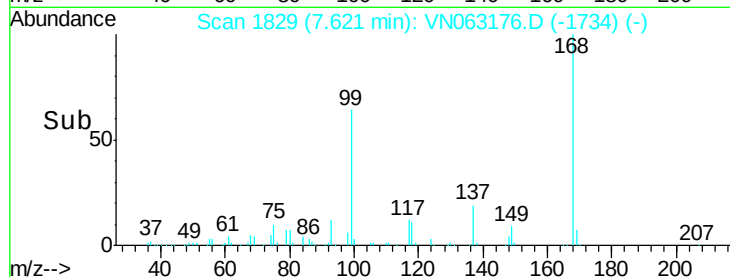
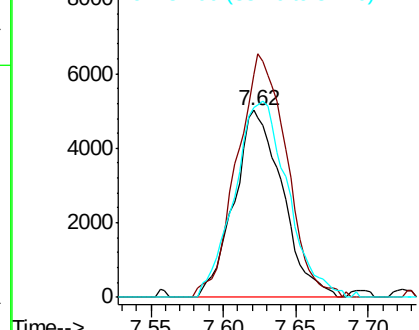
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 11624

Ion	Ratio	Lower	Upper
56	100		
69	119.6	25.4	38.0#
84	101.9	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: 49.532 ug/l

RT: 7.99 min Scan# 1943

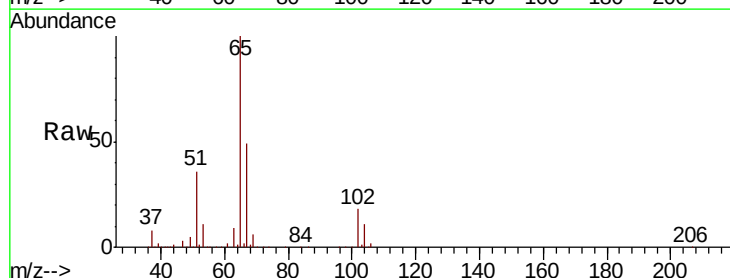
Delta R.T. 0.00 min

Lab File: VN063176.D

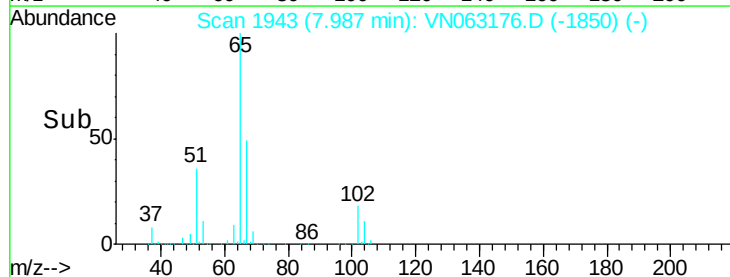
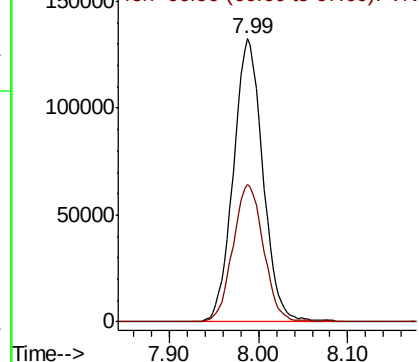
Acq: 1 Sep 2020 23:40

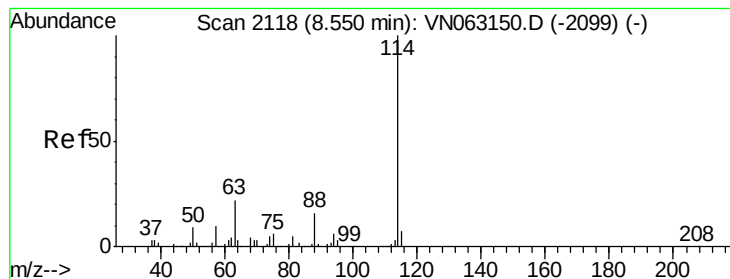
Tgt Ion: 65 Resp: 304276

Ion	Ratio	Lower	Upper
65	100		
67	49.8	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: VN063176.D

Acq: 1 Sep 2020 23:40

Instrument :

MSVOA_N

ClientSampleId :

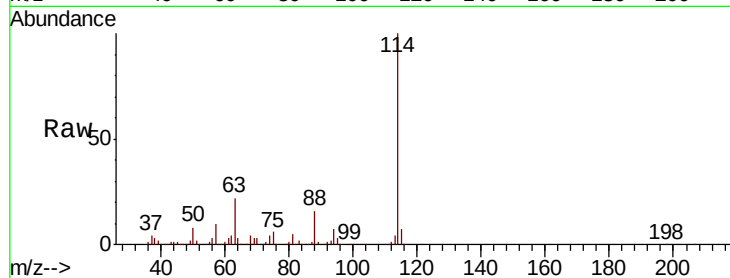
Tot Ion:114 Resp: 735186

Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.0

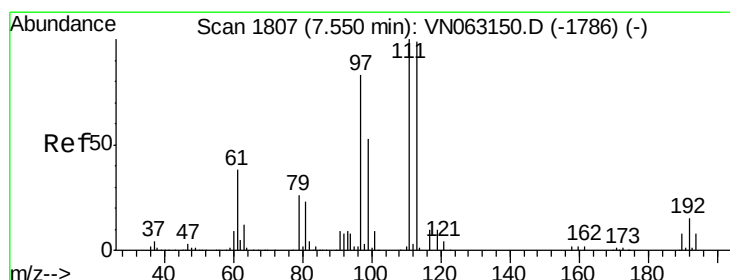
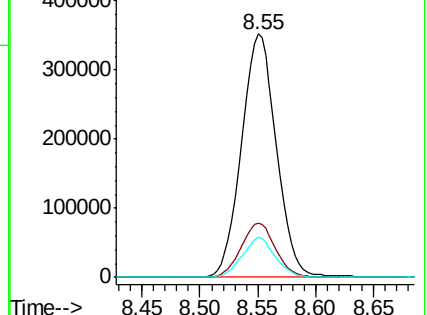
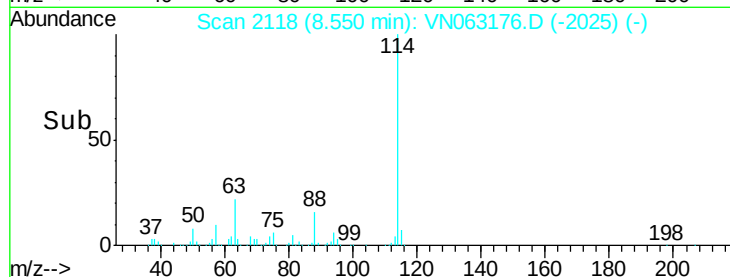
88 16.3 0.0 31.6



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: 49.299 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

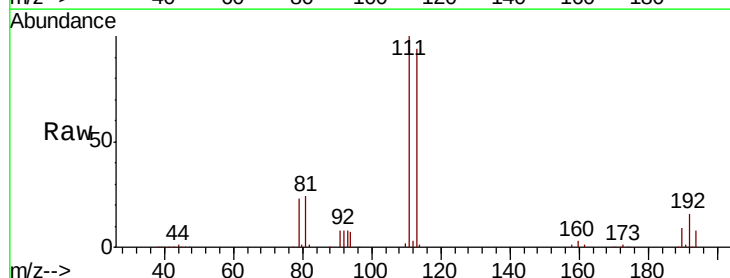
Tgt Ion:113 Resp: 232523

Ion Ratio Lower Upper

113 100

111 104.0 80.7 121.1

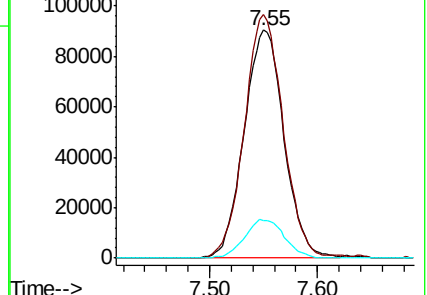
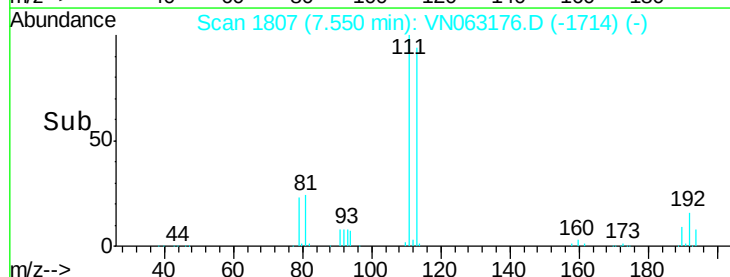
192 16.9 12.6 19.0

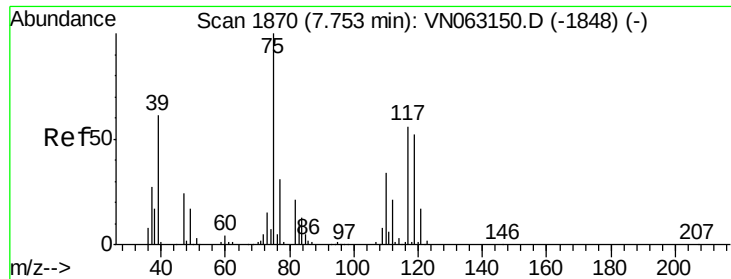


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

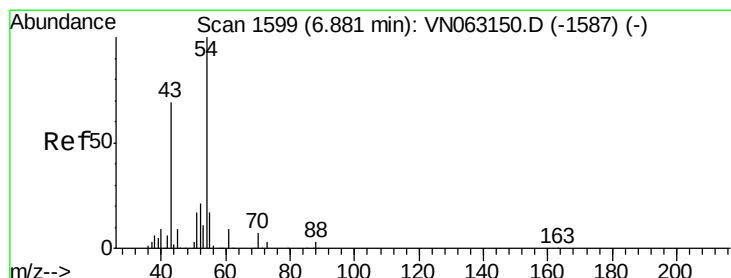
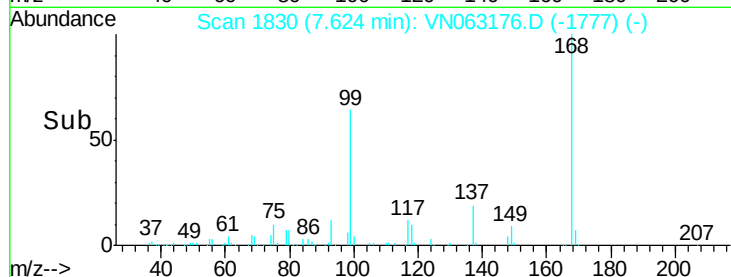
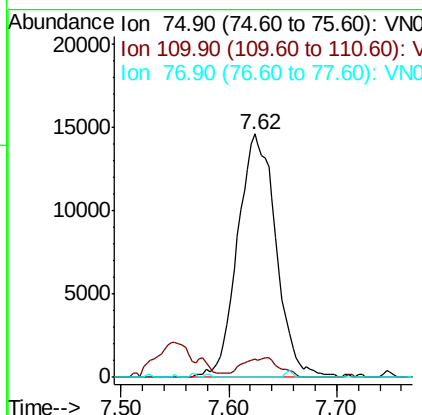
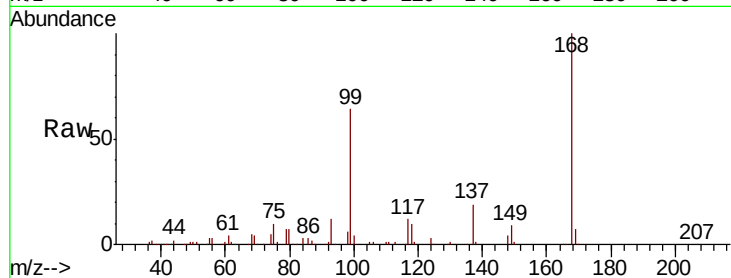




#36
 1,1-Dichloropropene
 Concen: 5.110 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063176.D
 Acq: 1 Sep 2020 23:40

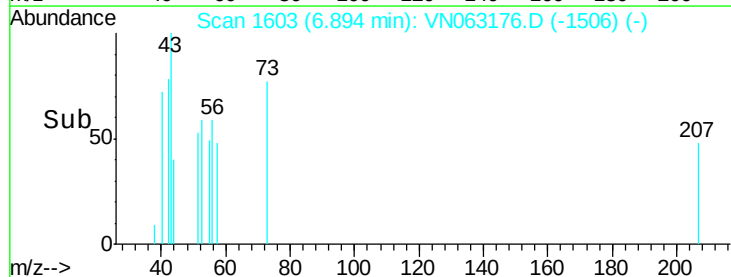
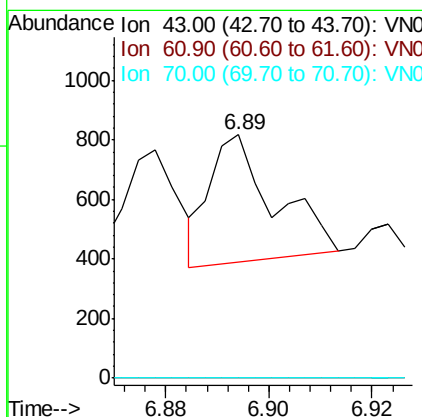
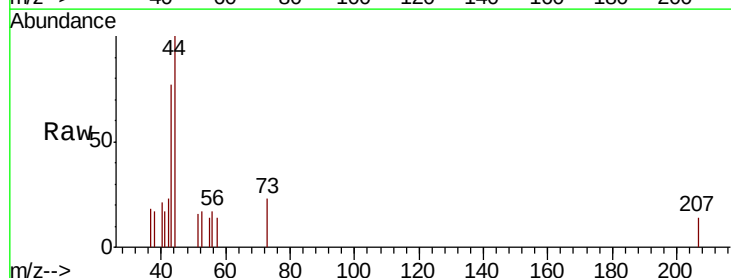
Instrument :
 MSVOA_N
 ClientSampleId :

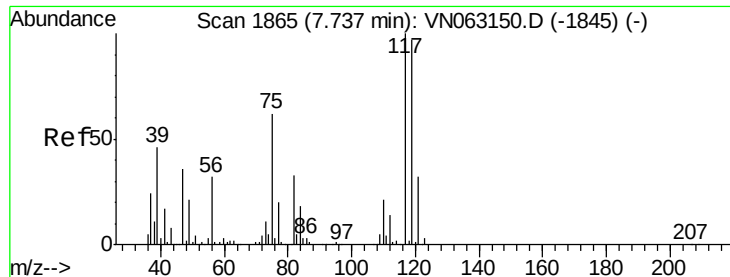
Tot Ion: 75 Resp: 36116
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.6 49.8#
 77 0.0 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 0.435 ug/l
 RT: 6.89 min Scan# 1603
 Delta R.T. 0.01 min
 Lab File: VN063176.D
 Acq: 1 Sep 2020 23:40

Tgt Ion: 43 Resp: 371
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 0.0 3.0 4.6#





#38

Carbon Tetrachloride

Concen: 5.908 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

Instrument :

MSVOA_N

ClientSampleId :

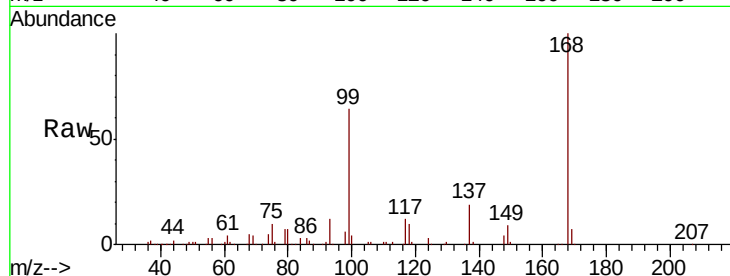
Tot Ion:117 Resp: 42349

Ion Ratio Lower Upper

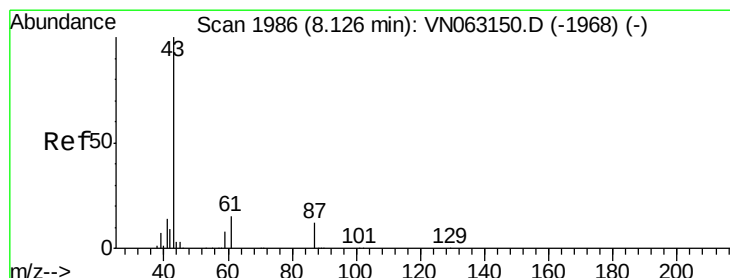
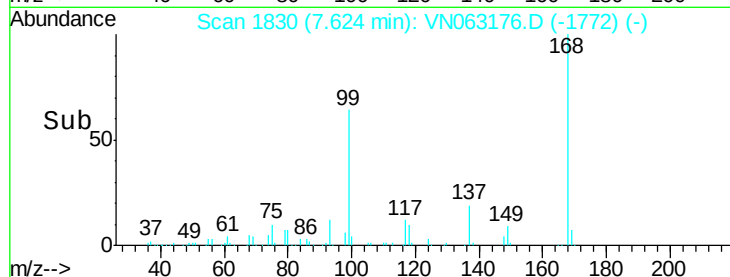
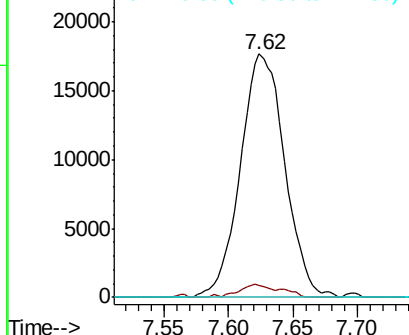
117 100

119 5.0 77.2 115.8#

121 0.0 25.6 38.4#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.992 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

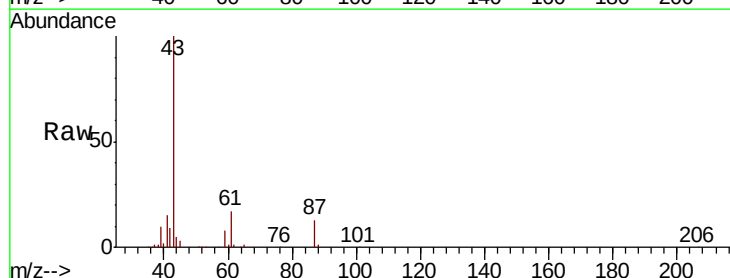
Tgt Ion: 43 Resp: 126694

Ion Ratio Lower Upper

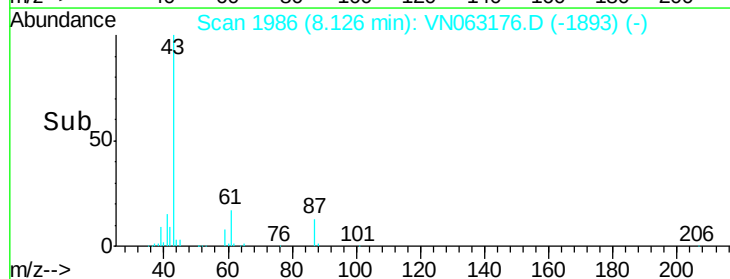
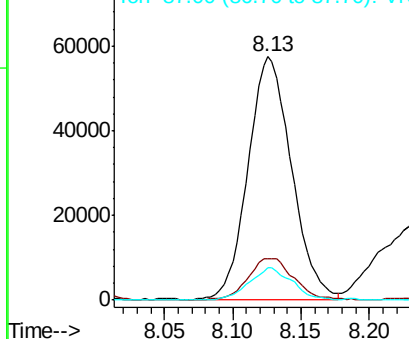
43 100

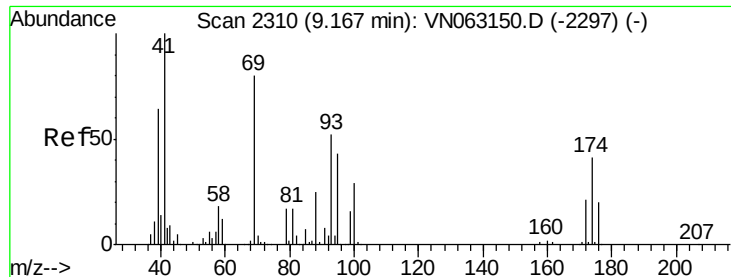
61 18.2 20.2 30.4#

87 13.1 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

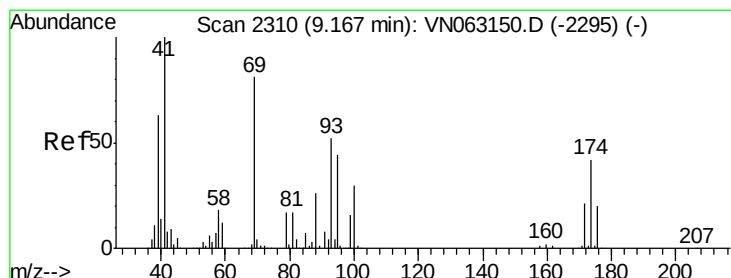
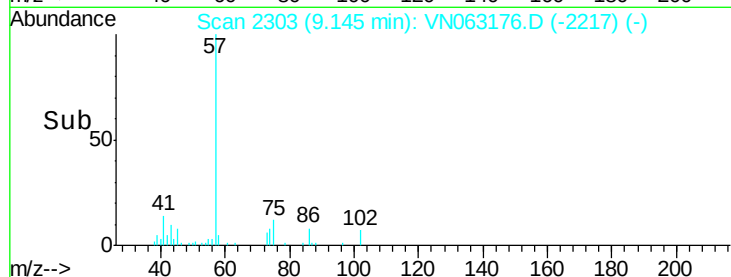
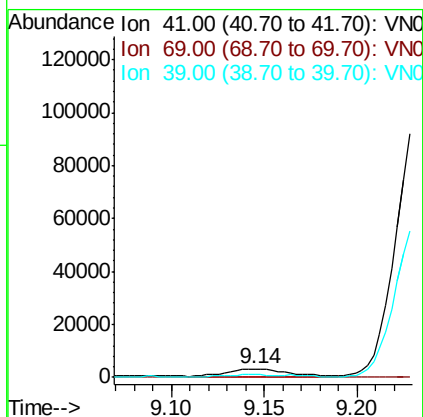
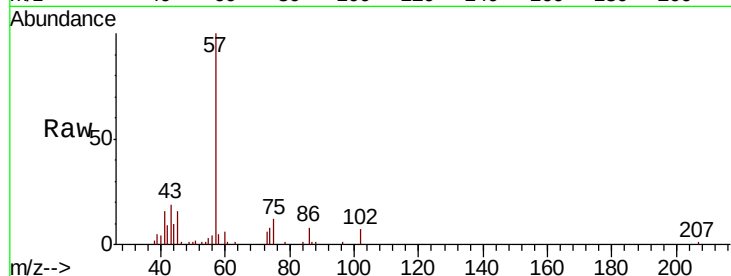




#48
Methvl methacrylate
Concen: 1.226 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

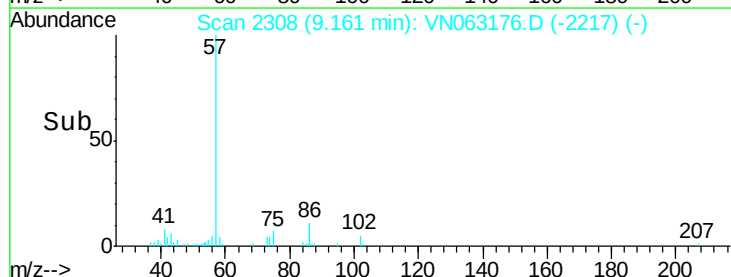
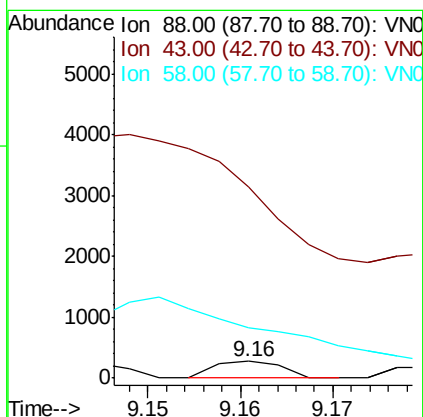
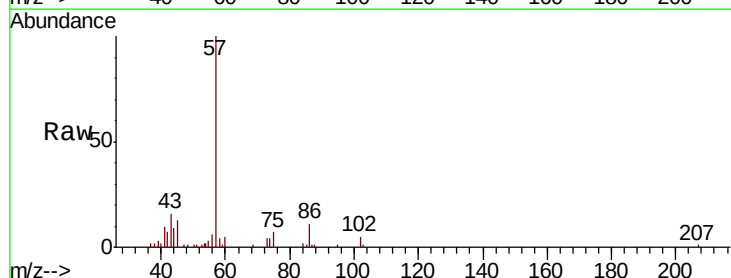
Instrument :
MSVOA_N
ClientSampleId :

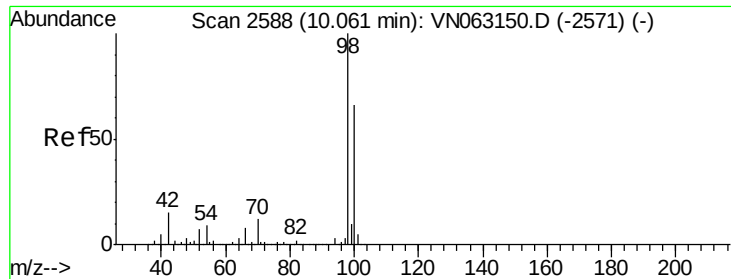
Tot Ion: 41 Resp: 6371
Ion Ratio Lower Upper
41 100
69 0.5 65.9 98.9#
39 0.0 52.0 78.0#



#49
1,4-Dioxane
Concen: 1.754 ug/l
RT: 9.16 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Tgt Ion: 88 Resp: 141
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 0.0 53.2 79.8#

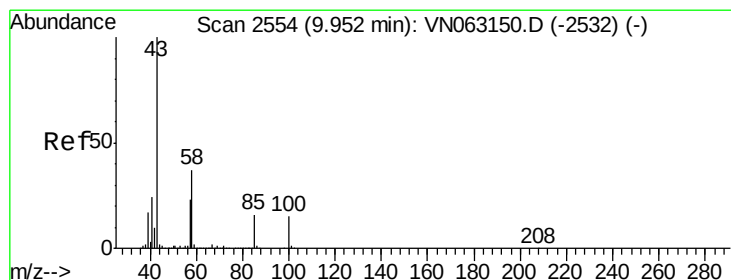
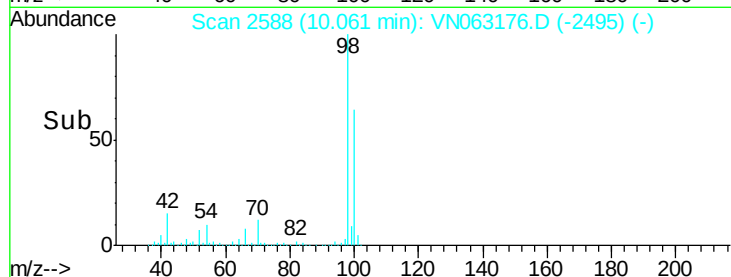
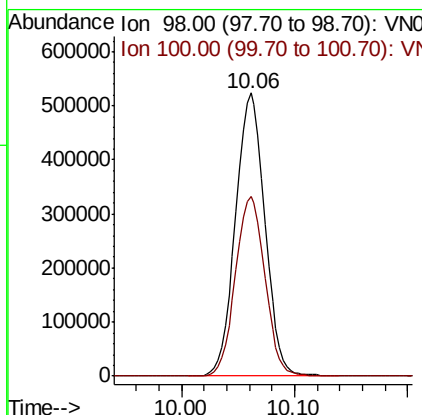
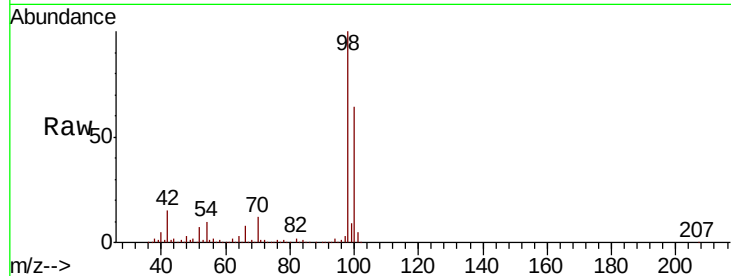




#50
Toluene-d8
Concen: 52.275 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

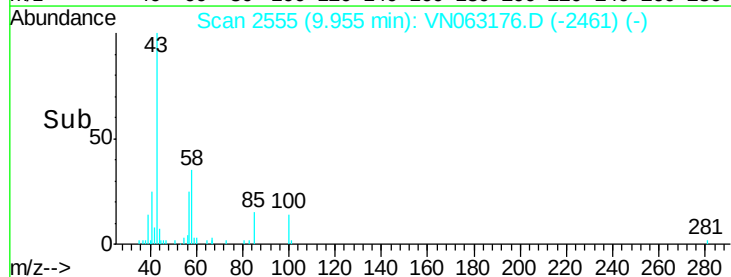
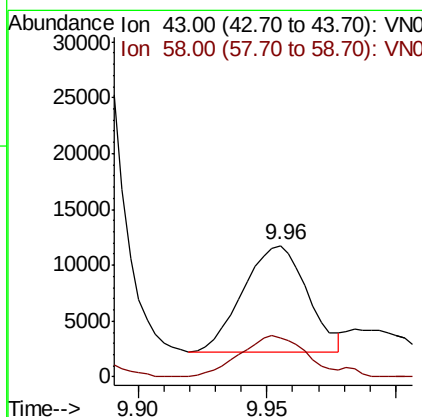
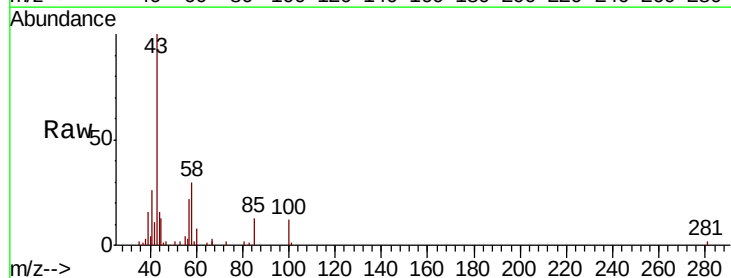
Instrument :
MSVOA_N
ClientSampled :

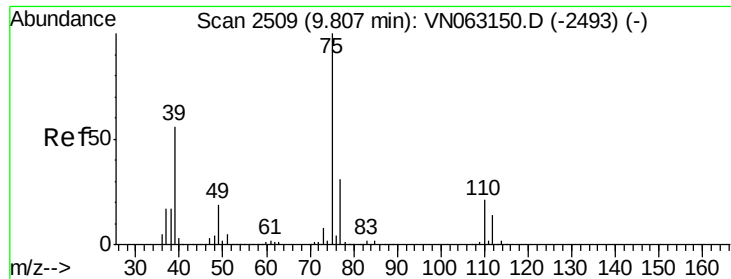
Tot Ion: 98 Resp: 949011
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.633 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Tgt Ion: 43 Resp: 16491
Ion Ratio Lower Upper
43 100
58 39.9 29.2 43.8





#54

cis-1,3-Dichloropropene

Concen: 5.828 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

Instrument :

MSVOA_N

ClientSampleId :

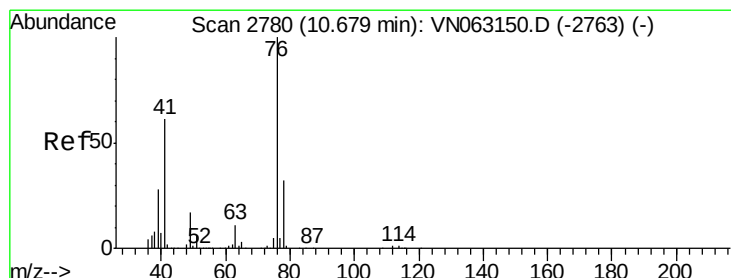
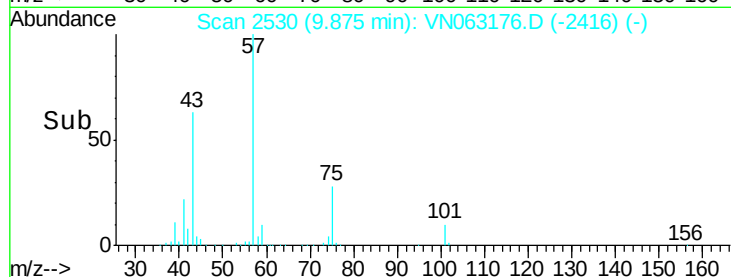
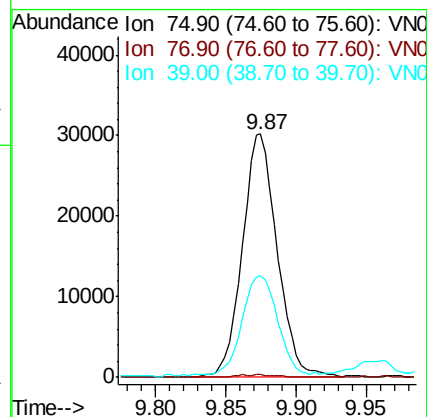
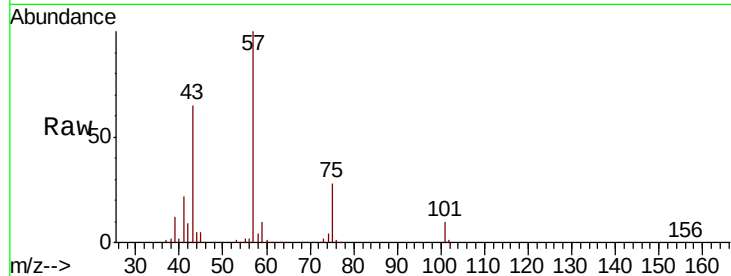
Tot Ion: 75 Resp: 52270

Ion Ratio Lower Upper

75 100

77 1.4 24.8 37.2#

39 40.5 45.0 67.6#



#57

1,3-Dichloropropane

Concen: 0.989 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063176.D

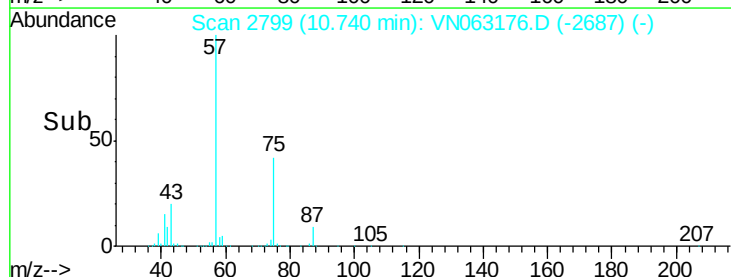
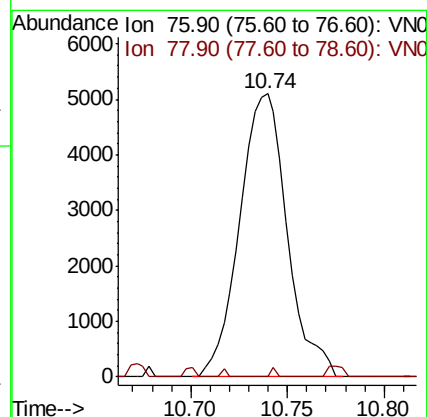
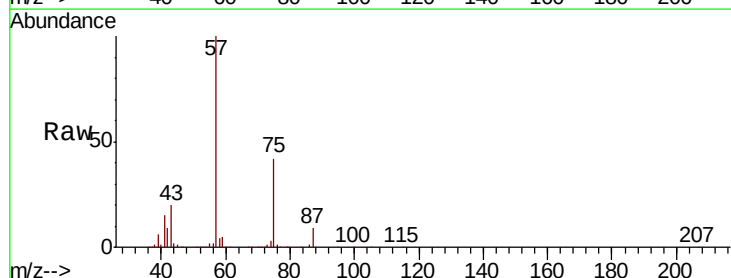
Acq: 1 Sep 2020 23:40

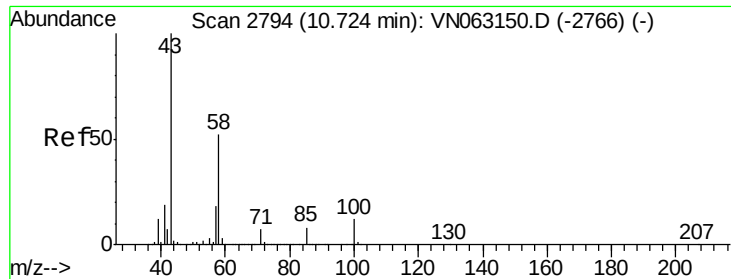
Tgt Ion: 76 Resp: 8728

Ion Ratio Lower Upper

76 100

78 0.4 25.5 38.3#

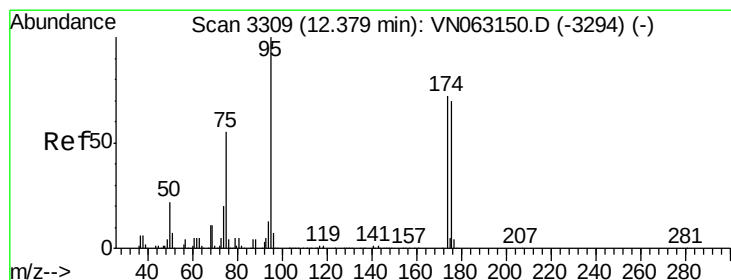
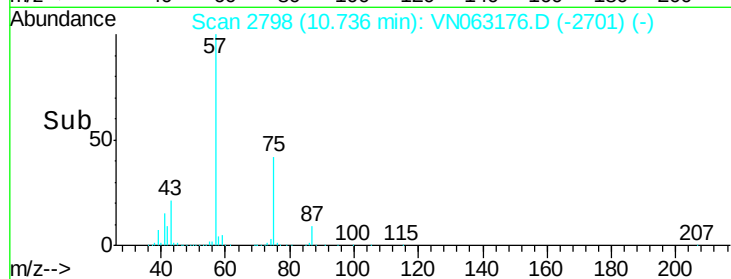
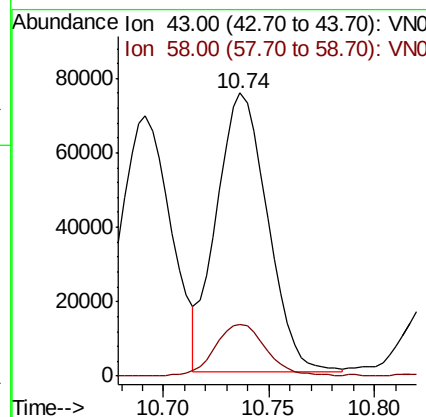
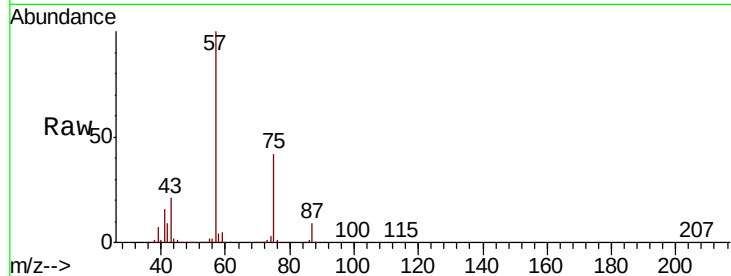




#59
2-Hexanone
Concen: 28.617 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

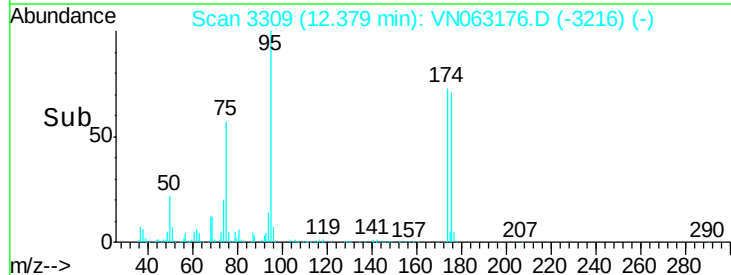
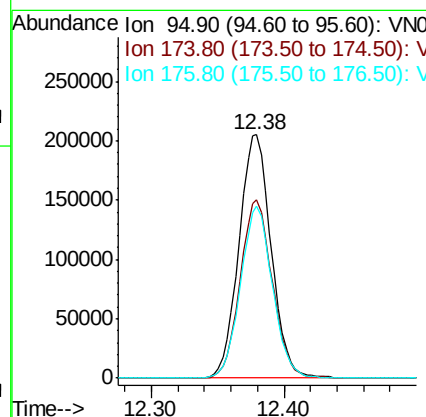
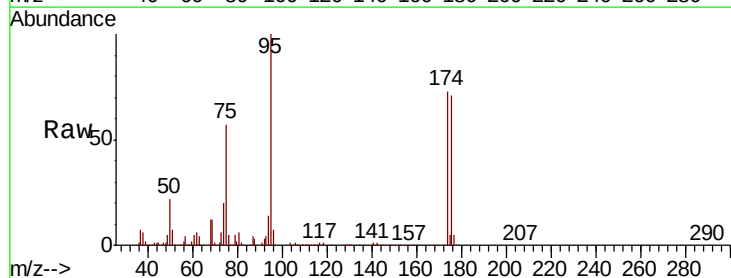
Instrument :
MSVOA_N
ClientSampleId :

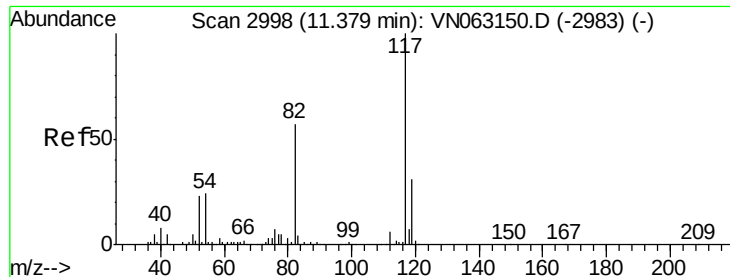
Tot Ion: 43 Resp: 125970
Ion Ratio Lower Upper
43 100
58 18.8 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 54.485 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Tgt Ion: 95 Resp: 346005
Ion Ratio Lower Upper
95 100
174 73.3 0.0 143.8
176 70.1 0.0 138.4

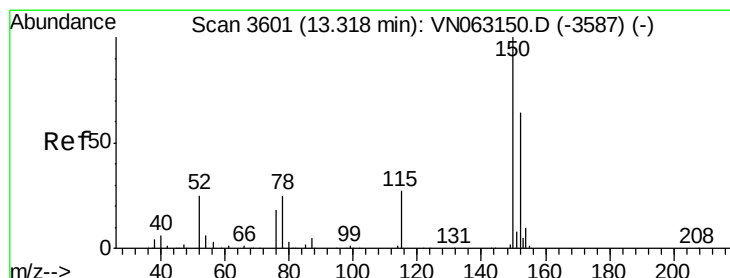
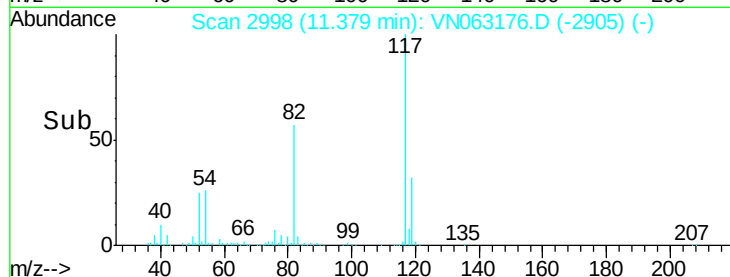
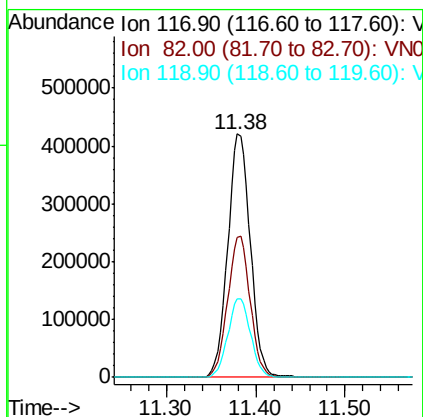
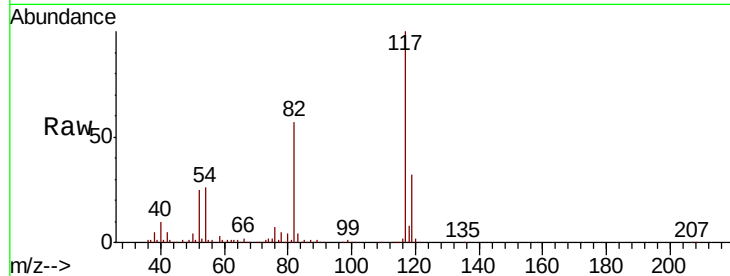




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

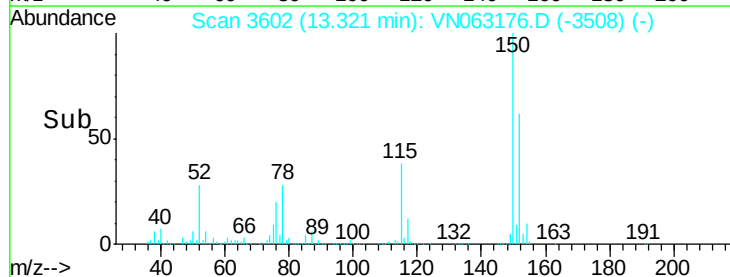
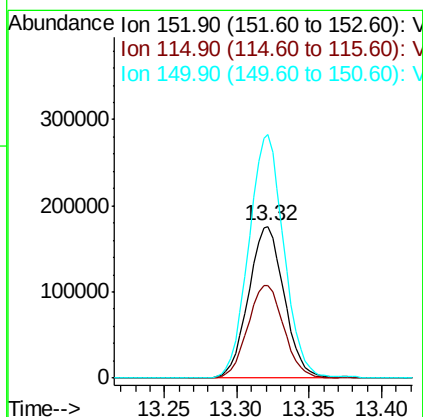
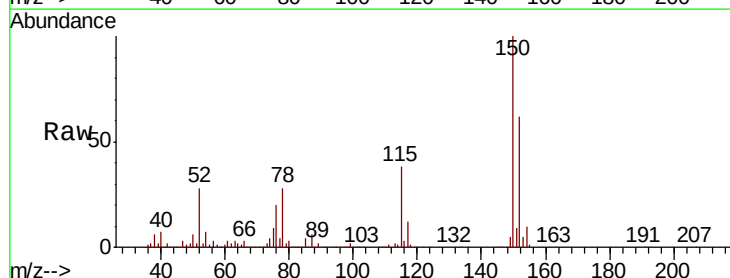
Instrument :
MSVOA_N
ClientSampled :

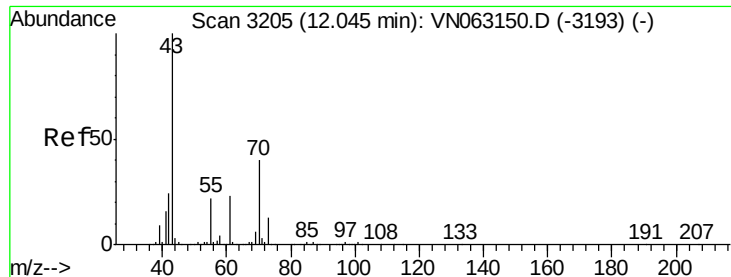
Tot Ion:117 Resp: 737707
Ion Ratio Lower Upper
117 100
82 57.2 45.4 68.0
119 32.3 24.6 37.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3602
Delta R.T. 0.00 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Tgt Ion:152 Resp: 302341
Ion Ratio Lower Upper
152 100
115 61.6 32.0 96.2
150 158.3 0.0 353.0

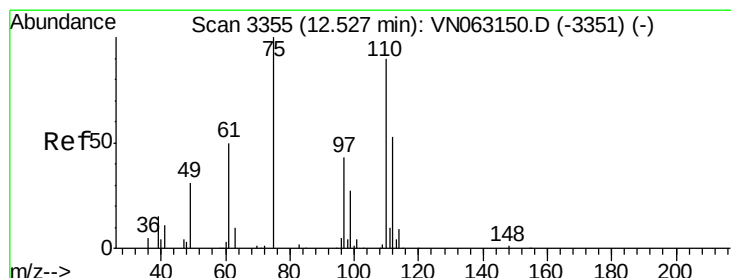
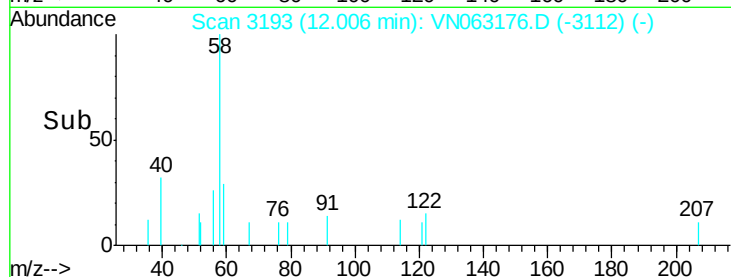
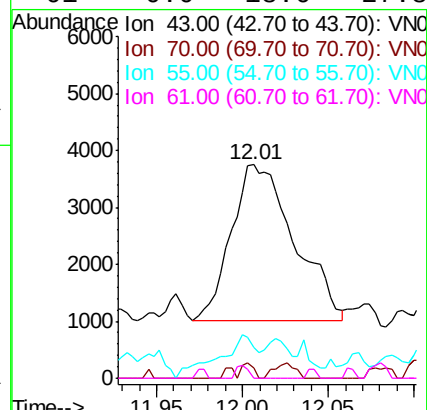
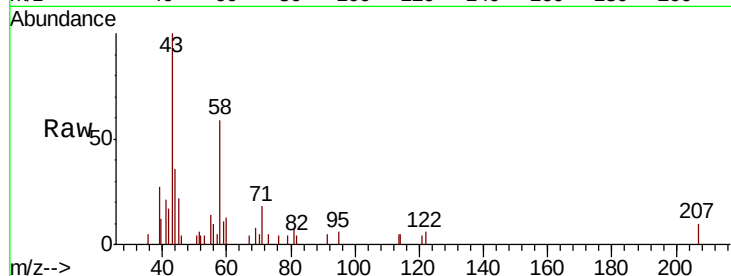




#74
N-amvl acetate
Concen: 0.726 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

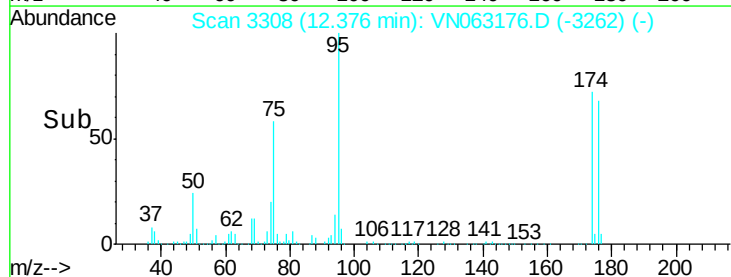
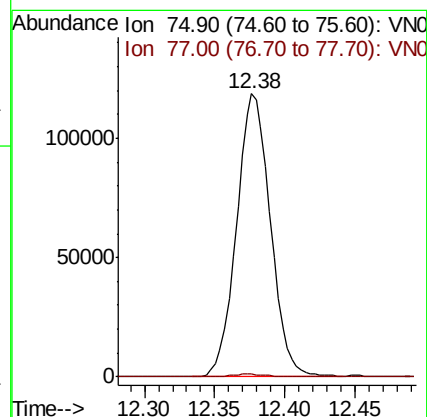
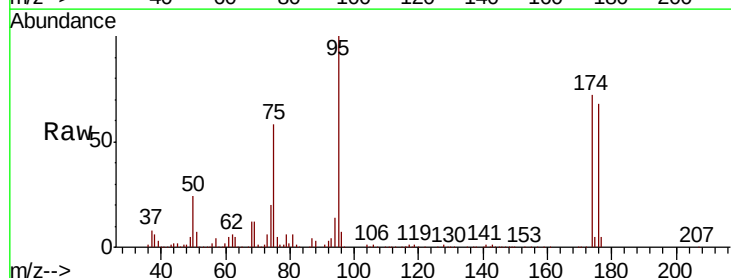
Instrument :
MSVOA_N
ClientSampleId :

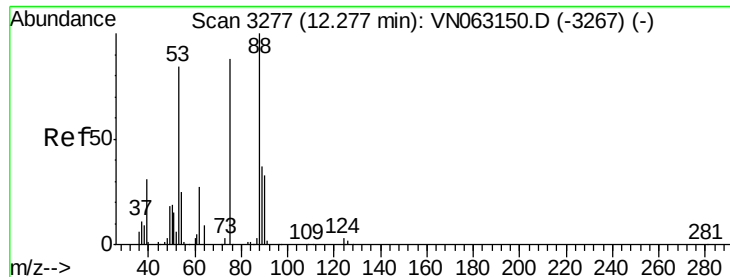
Tot Ion: 43 Resp: 6969
Ion Ratio Lower Upper
43 100
70 1.9 32.1 48.1#
55 16.5 17.4 26.0#
61 0.0 18.6 27.8#



#76
1,2,3-Trichloropropane
Concen: 33.580 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063176.D
Acq: 1 Sep 2020 23:40

Tgt Ion: 75 Resp: 199476
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 81.162 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063176.D

Acq: 1 Sep 2020 23:40

Instrument :

MSVOA_N

ClientSampleId :

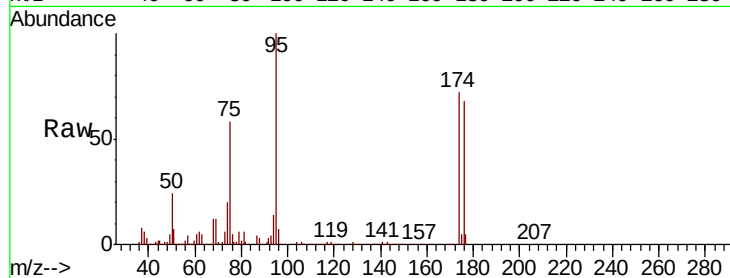
Tot Ion: 75 Resp: 199476

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.0 35.3 52.9#



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

