

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090120\
 Data File : VN063174.D
 Acq On : 1 Sep 2020 22:52
 Operator : JC/MD
 Sample : L3852-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 04:08:28 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	354972	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	705127	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	708623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	284981	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	283244	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
35) Dibromofluoromethane	7.55	113	220225	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	10.06	98	887122	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.38	95	323125	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	

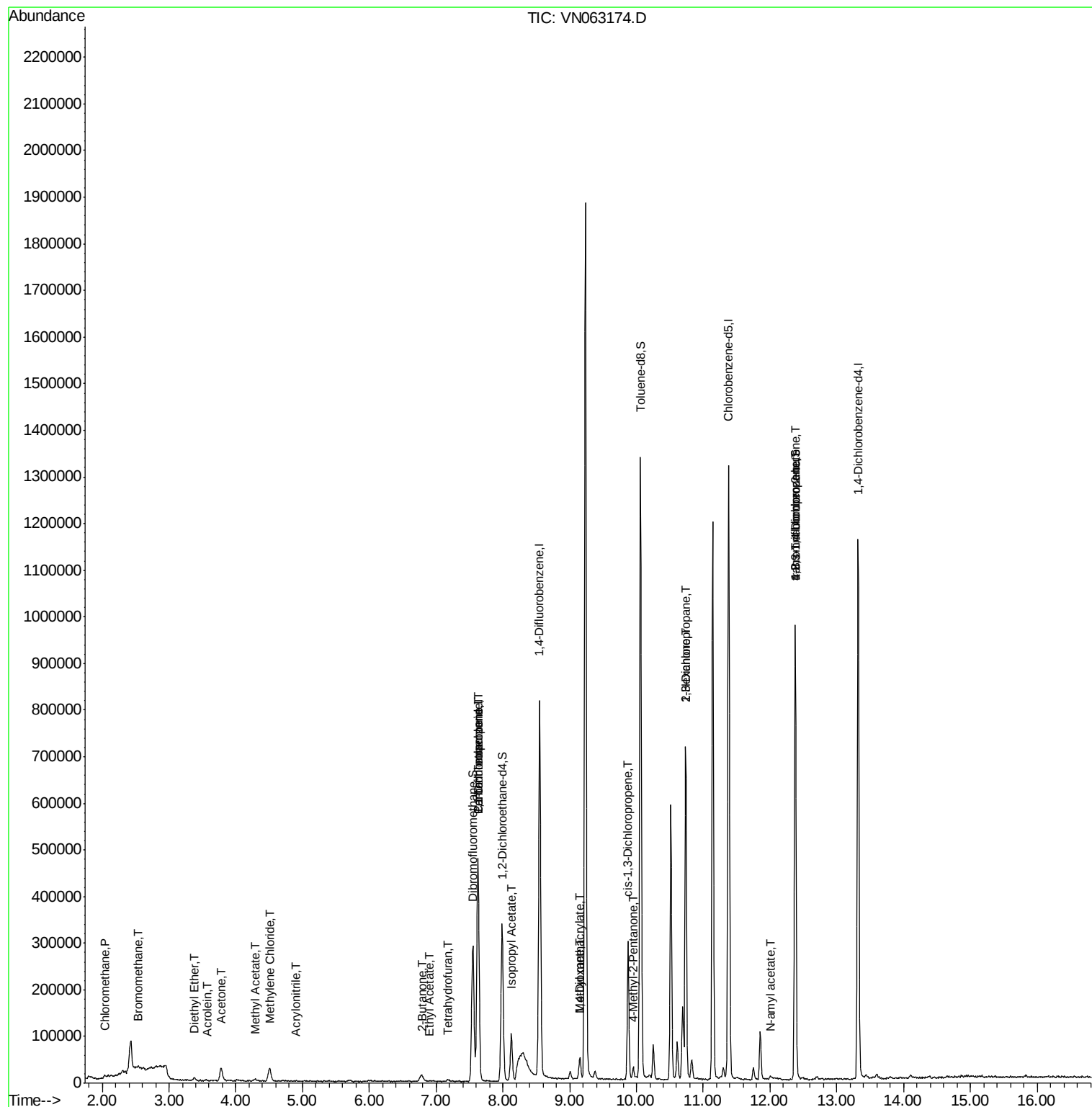
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	3475	0.683	ug/l #	83
5) Bromomethane	2.55	94	1475	0.312	ug/l #	73
7) Trichlorofluoromethane	2.99	101	63	Below Cal	#	19
8) Diethyl Ether	3.38	74	2925	1.087	ug/l	57
13) Acrolein	3.58	56	67	16.001	ug/l #	15
15) Acrylonitrile	4.89	53	231	2.519	ug/l #	41
16) Acetone	3.78	43	50787	30.788	ug/l	93
18) Methyl Acetate	4.29	43	8601	2.034	ug/l #	86
20) Methylene Chloride	4.51	84	19182	3.680	ug/l	93
25) 2-Butanone	6.80	43	5833	2.284	ug/l #	89
29) Tetrahydrofuran	7.17	42	1960	1.110	ug/l #	68
31) Cyclohexane	7.63	56	11039	Below Cal	#	47
36) 1,1-Dichloropropene	7.63	75	32706	4.825	ug/l #	50
37) Ethyl Acetate	6.89	43	386	0.440	ug/l #	30
38) Carbon Tetrachloride	7.63	117	40527	5.895	ug/l #	16
43) Isopropyl Acetate	8.13	43	121117	10.956	ug/l #	90
48) Methyl methacrylate	9.15	41	5852	1.174	ug/l #	13
49) 1,4-Dioxane	9.16	88	164	2.128	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	15458	2.573	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	52630	6.118	ug/l #	61
57) 1,3-Dichloropropane	10.74	76	7177	0.848	ug/l #	44
59) 2-Hexanone	10.74	43	111966	26.520	ug/l #	52
74) N-amyl acetate	12.01	43	6651	0.735	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	185965	33.212	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	185965	80.274	ug/l #	10

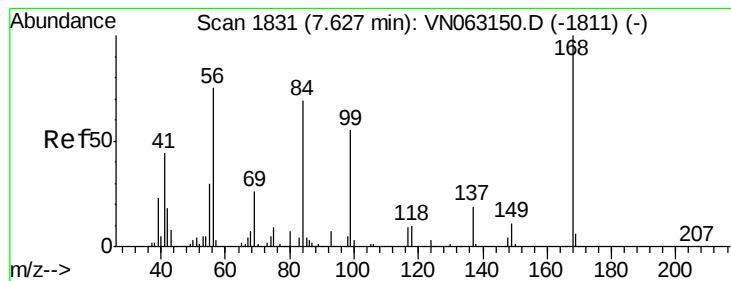
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063174.D

Acq: 1 Sep 2020 22:52

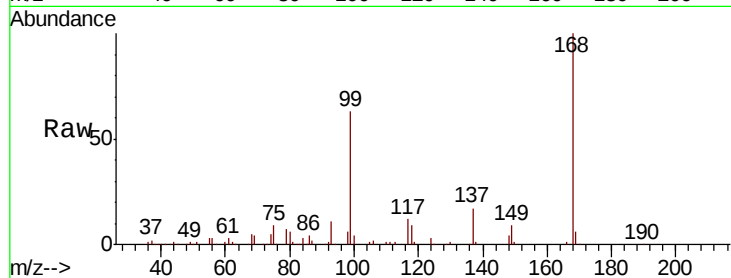
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 354972

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

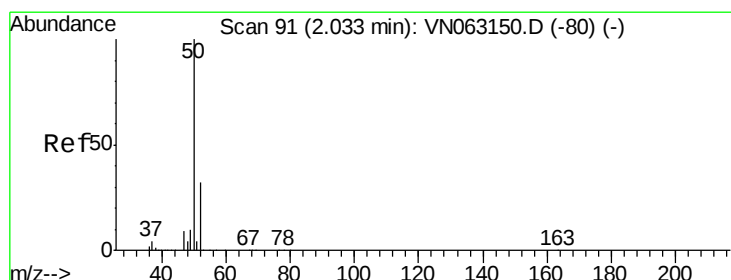
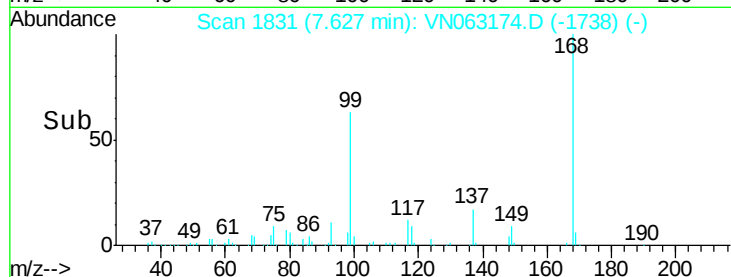
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.683 ug/l

RT: 2.03 min Scan# 91

Delta R.T. 0.00 min

Lab File: VN063174.D

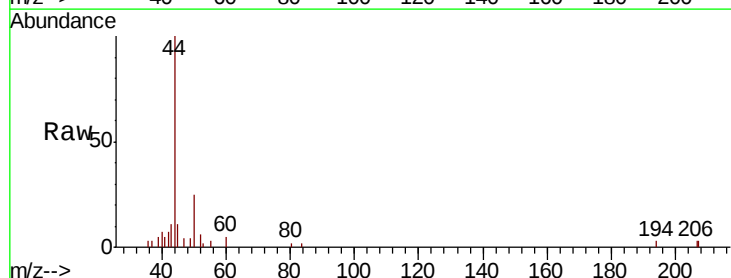
Acq: 1 Sep 2020 22:52

Tgt Ion: 50 Resp: 3475

Ion Ratio Lower Upper

50 100

52 22.9 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

2000

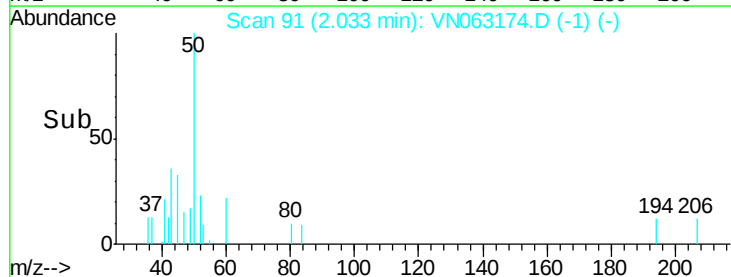
1500

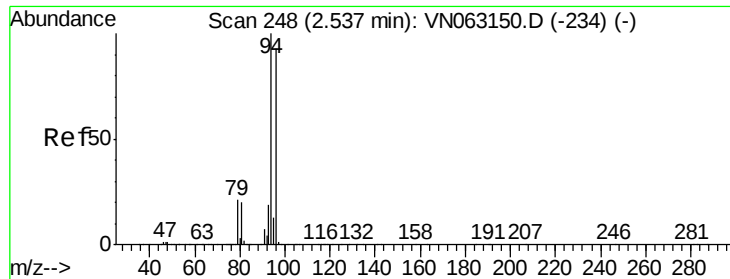
1000

500

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: 0.312 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

Instrument :

MSVOA_N

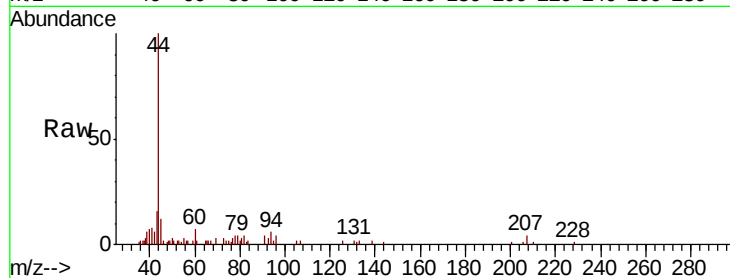
ClientSampled :

Tot Ion: 94 Resp: 1475

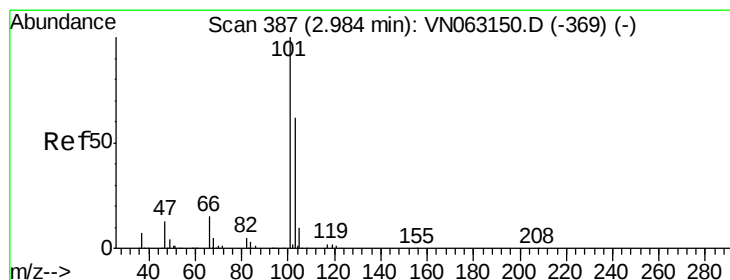
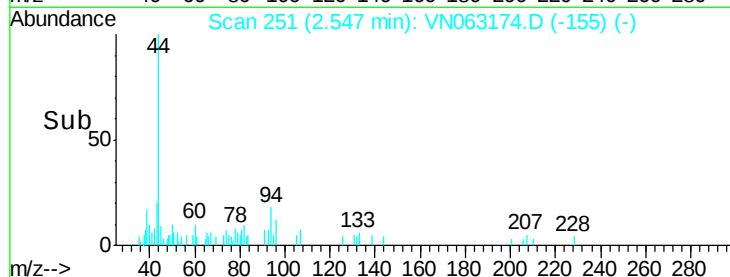
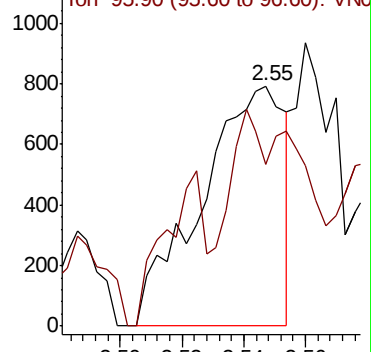
Ion Ratio Lower Upper

94 100

96 67.3 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VN063174.D (-155) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.99 min Scan# 390

Delta R.T. 0.01 min

Lab File: VN063174.D

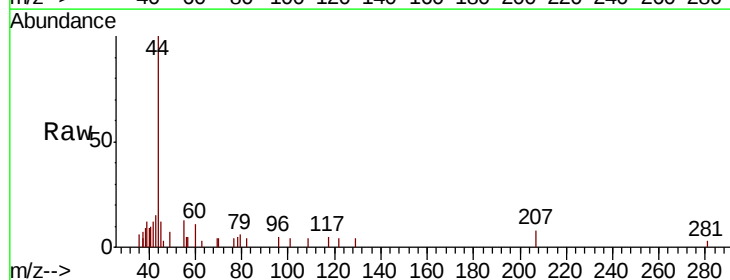
Acq: 1 Sep 2020 22:52

Tgt Ion: 101 Resp: 63

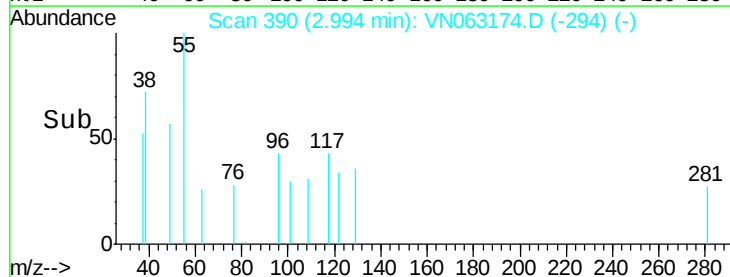
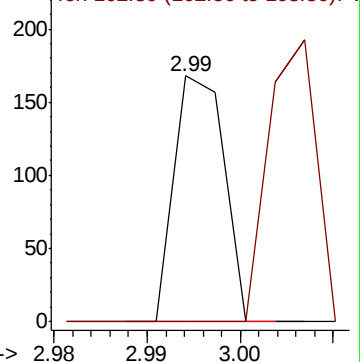
Ion Ratio Lower Upper

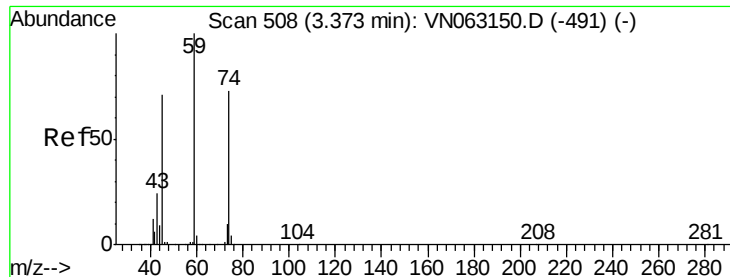
101 100

103 0.0 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): VN063174.D (-294) (-)





#8

Diethyl Ether

Concen: 1.087 ug/l

RT: 3.38 min Scan# 511

Delta R.T. 0.01 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

Instrument :

MSVOA_N

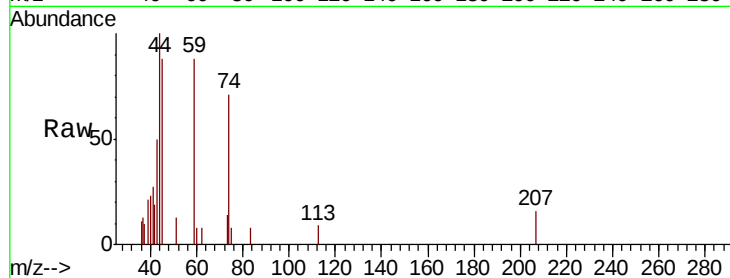
ClientSampled :

Tot Ion: 74 Resp: 2925

Ion Ratio Lower Upper

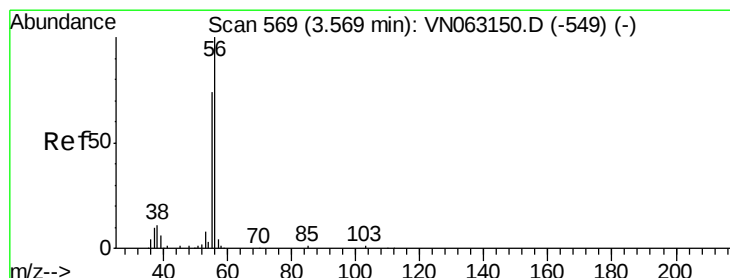
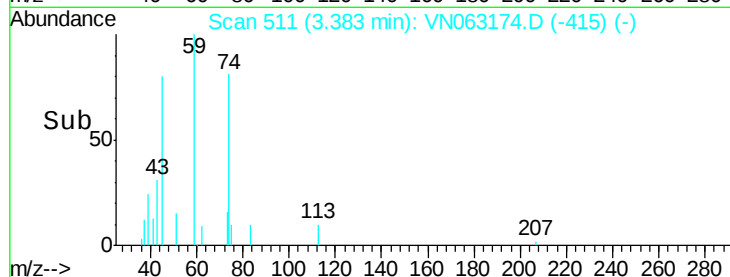
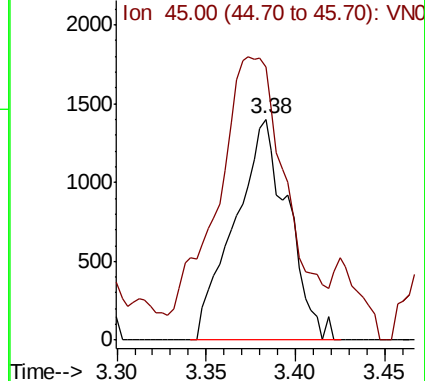
74 100

45 142.2 49.5 148.5



Abundance Ion 74.00 (73.70 to 74.70): VN063174.D (-415) (-)

Ion 45.00 (44.70 to 45.70): VN063174.D (-415) (-)



#13

Acrolein

Concen: 16.001 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN063174.D

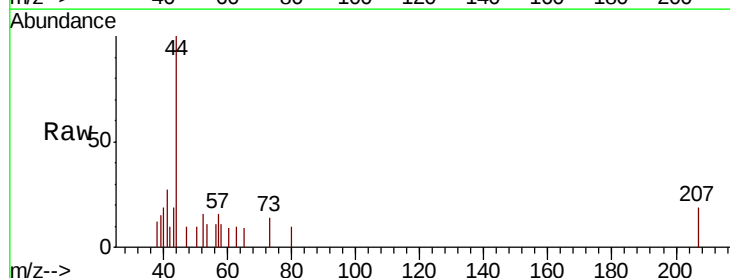
Acq: 1 Sep 2020 22:52

Tgt Ion: 56 Resp: 67

Ion Ratio Lower Upper

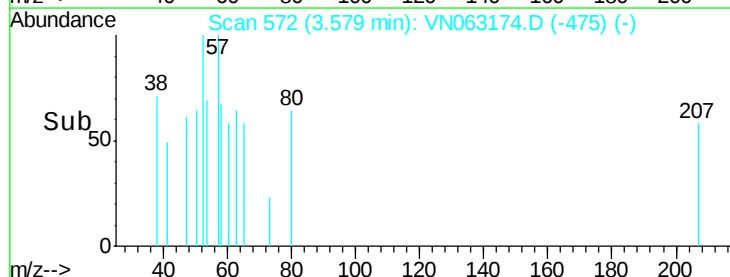
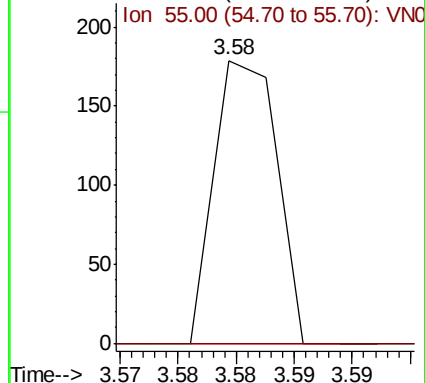
56 100

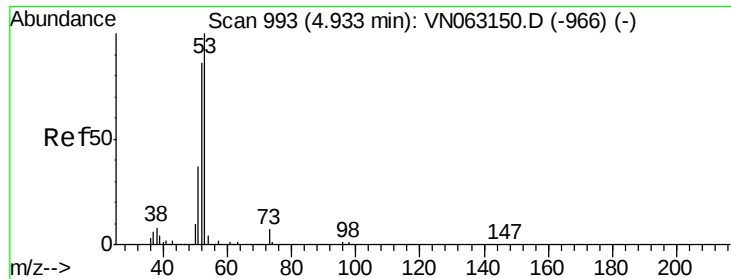
55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN063174.D (-475) (-)

Ion 55.00 (54.70 to 55.70): VN063174.D (-475) (-)

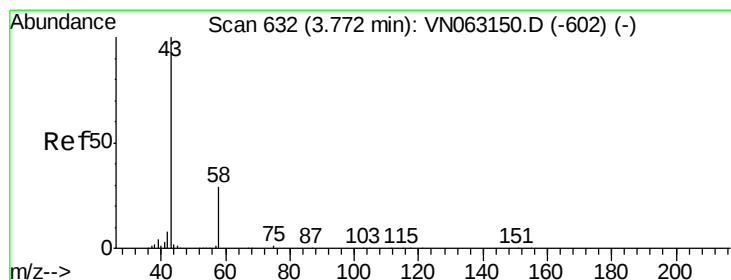
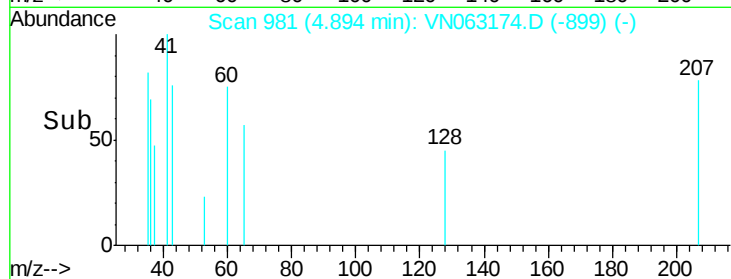
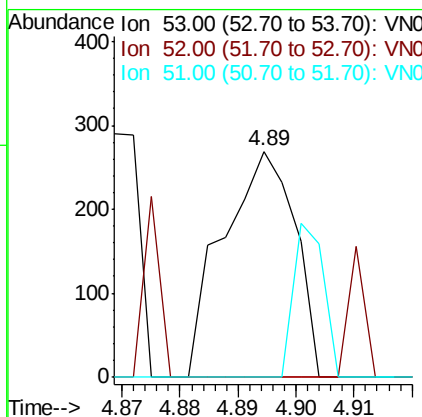
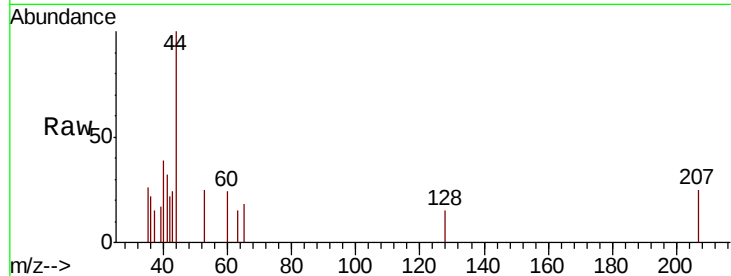




#15
 Acrylonitrile
 Concen: 2.519 ug/l
 RT: 4.89 min Scan# 981
 Delta R.T. -0.04 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

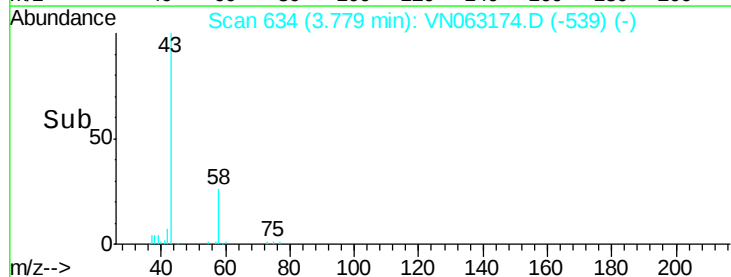
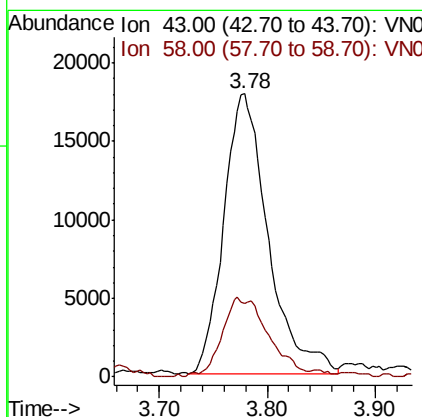
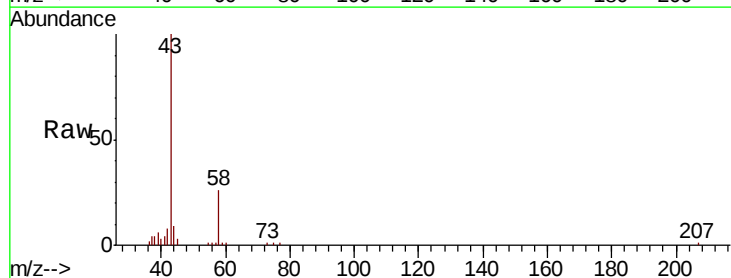
Instrument :
 MSVOA_N
 ClientSampled :

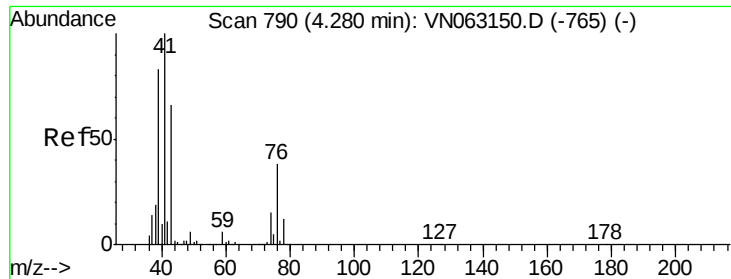
Tot Ion: 53 Resp: 231
 Ion Ratio Lower Upper
 53 100
 52 13.0 67.2 100.8#
 51 28.6 30.2 45.4#



#16
 Acetone
 Concen: 30.788 ug/l
 RT: 3.78 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

Tgt Ion: 43 Resp: 50787
 Ion Ratio Lower Upper
 43 100
 58 25.2 23.1 34.7

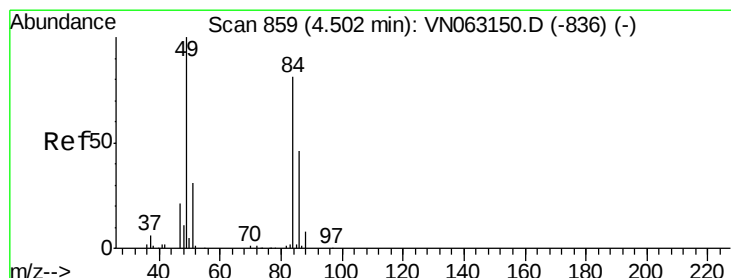
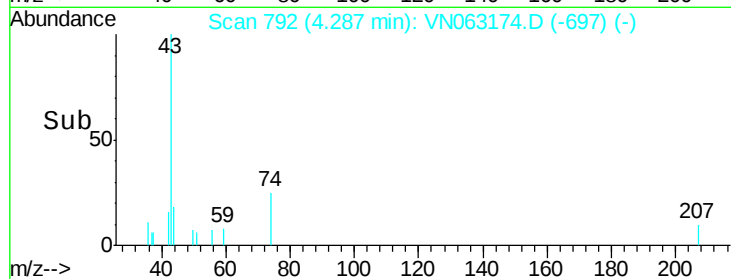
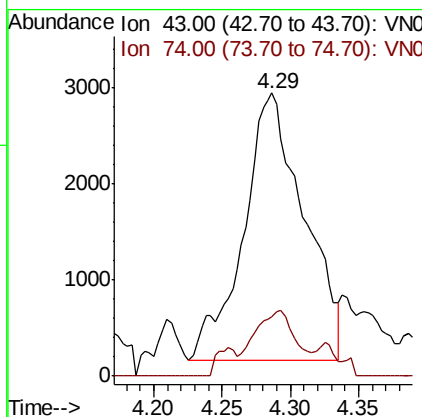
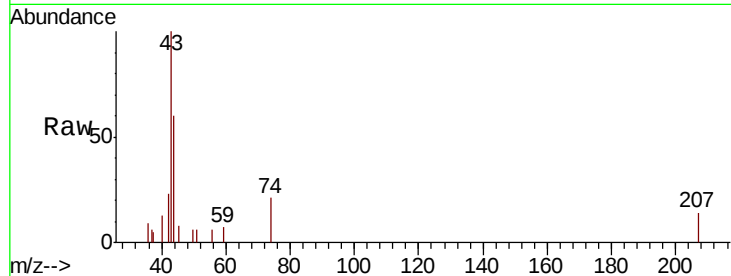




#18
Methyl Acetate
Concen: 2.034 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

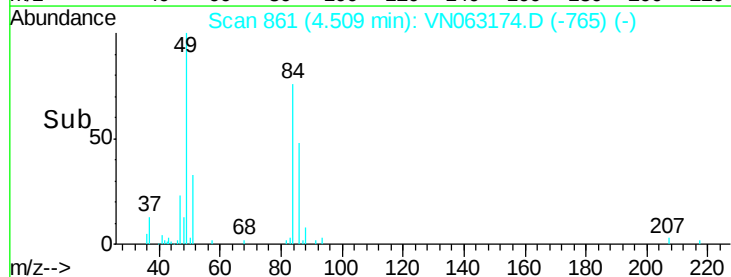
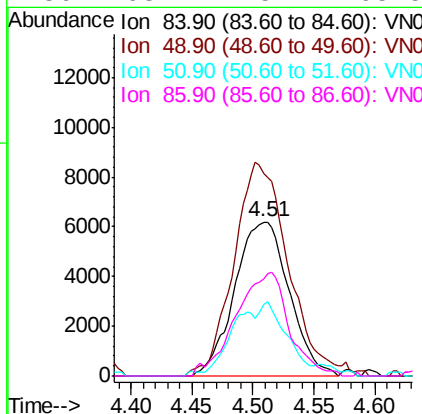
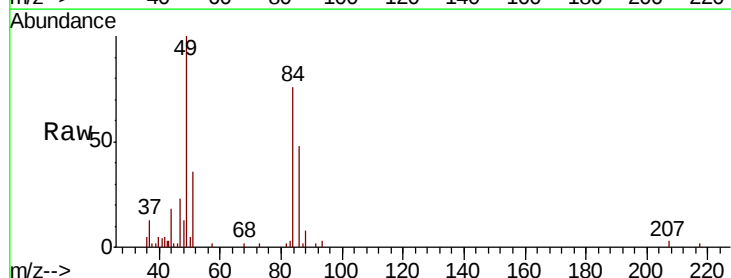
Instrument :
MSVOA_N
ClientSampled :

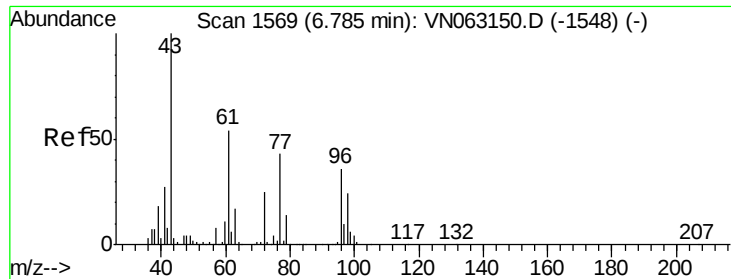
Tot Ion: 43 Resp: 8601
Ion Ratio Lower Upper
43 100
74 17.2 19.0 28.6#



#20
Methylene Chloride
Concen: 3.680 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

Tgt Ion: 84 Resp: 19182
Ion Ratio Lower Upper
84 100
49 128.5 98.4 147.6
51 44.2 30.4 45.6
86 63.4 45.7 68.5





#25

2-Butanone

Concen: 2.284 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

Instrument :

MSVOA_N

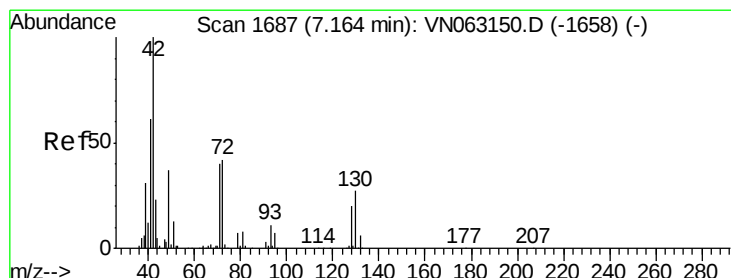
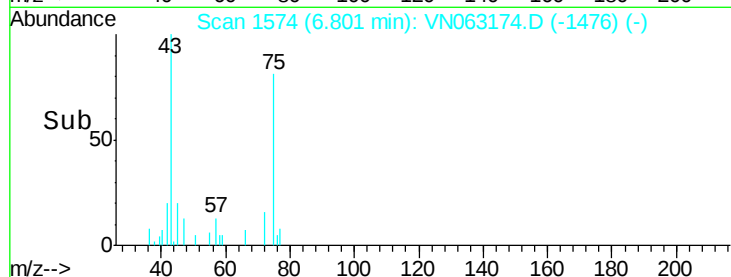
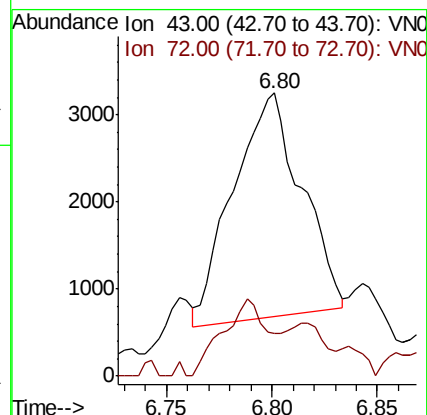
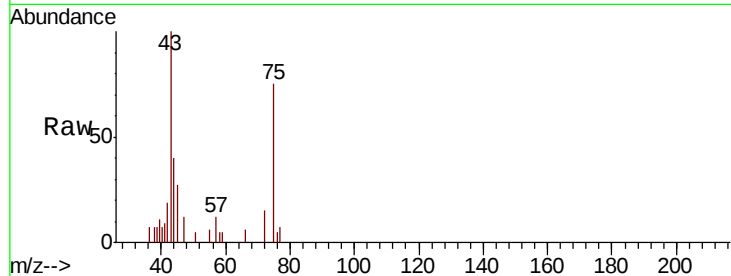
ClientSampleId :

Tot Ion: 43 Resp: 5833

Ion Ratio Lower Upper

43 100

72 19.8 20.2 30.4#



#29

Tetrahydrofuran

Concen: 1.110 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

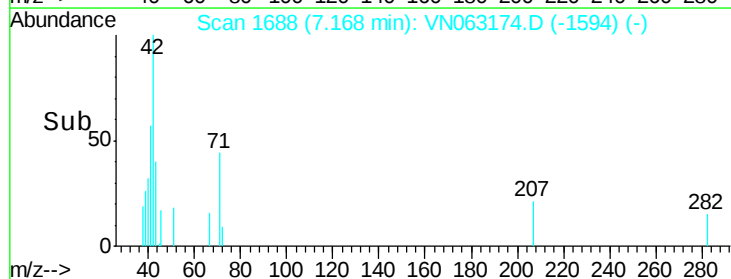
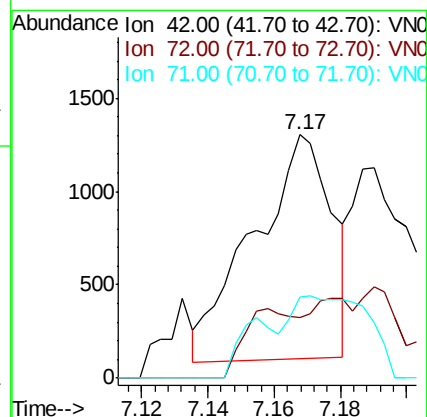
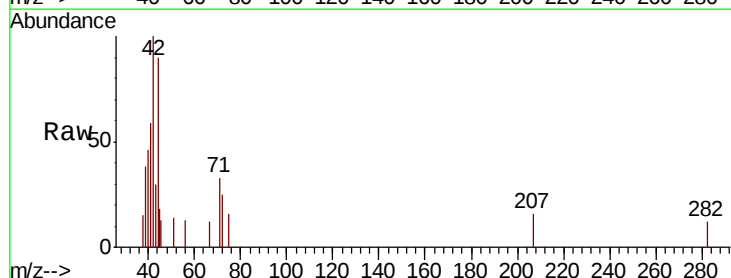
Tgt Ion: 42 Resp: 1960

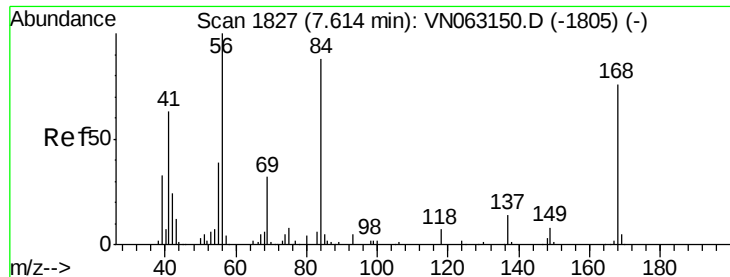
Ion Ratio Lower Upper

42 100

72 6.1 33.9 50.9#

71 36.5 31.9 47.9

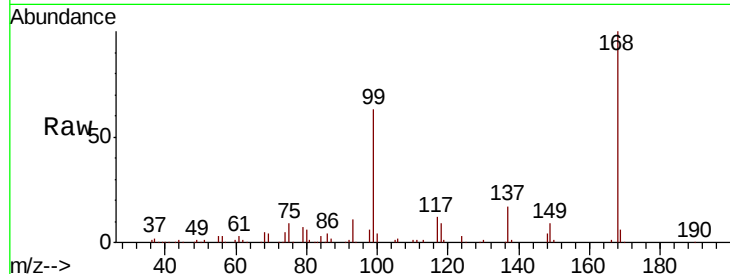




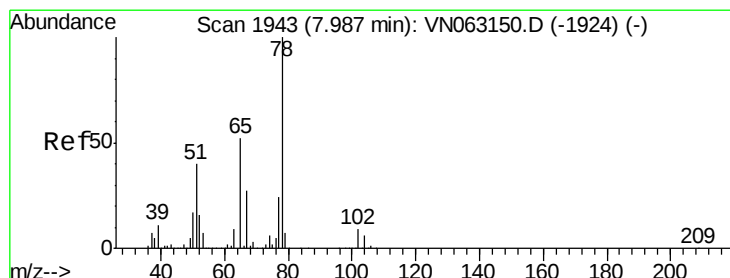
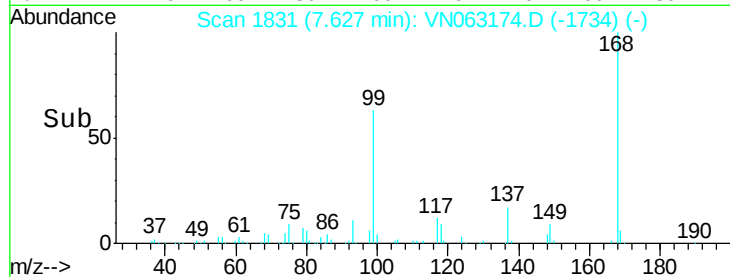
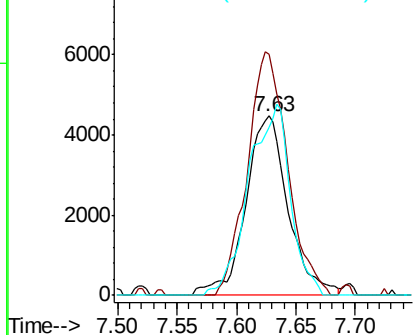
#31
Cyclohexane
Concen: Below Cal
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11039
Ion Ratio Lower Upper
56 100
69 134.4 25.4 38.0#
84 93.3 70.2 105.4

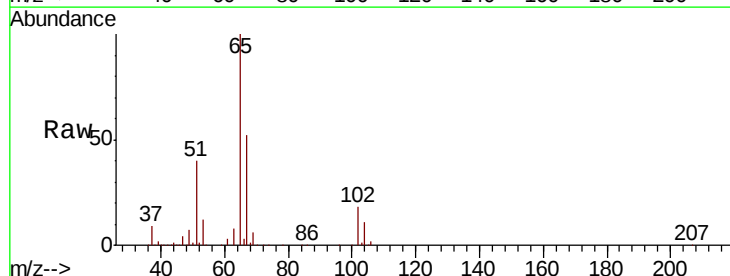


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

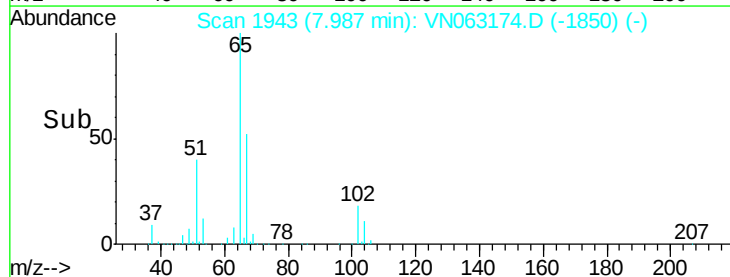
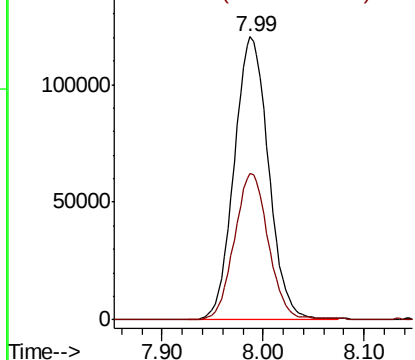


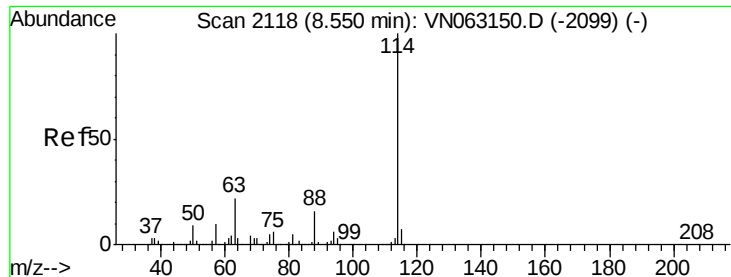
#33
1,2-Dichloroethane-d4
Concen: 48.812 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

Tgt Ion: 65 Resp: 283244
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.4



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

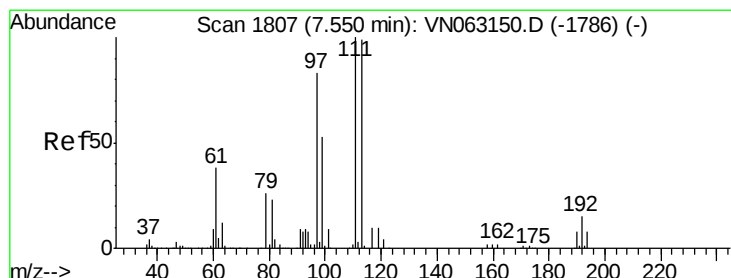
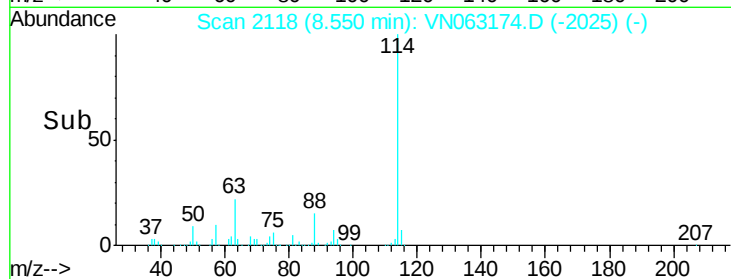
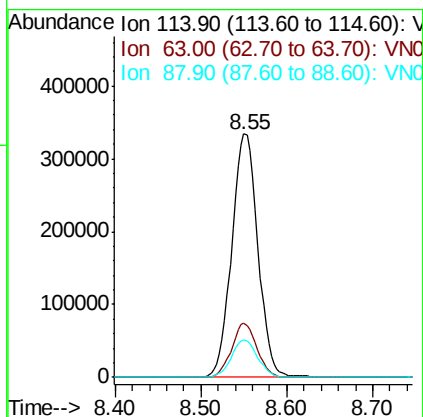
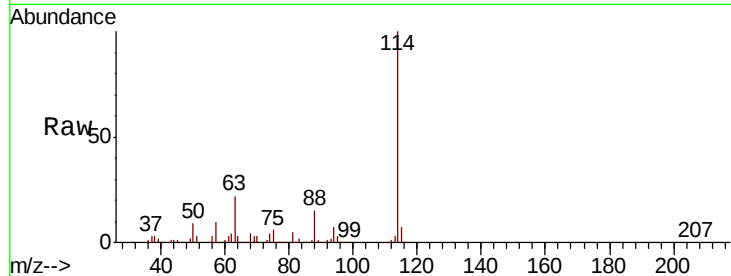




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

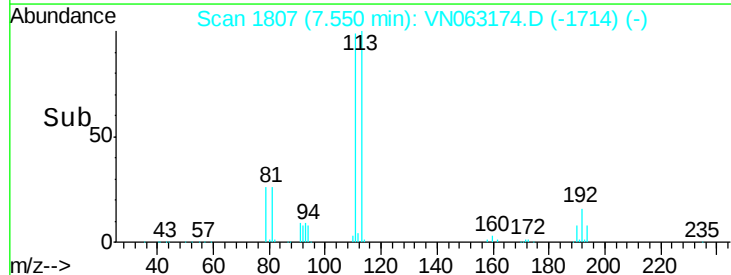
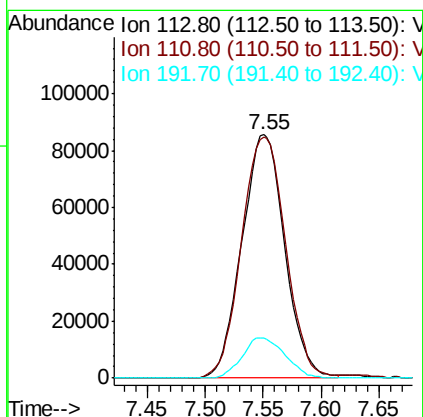
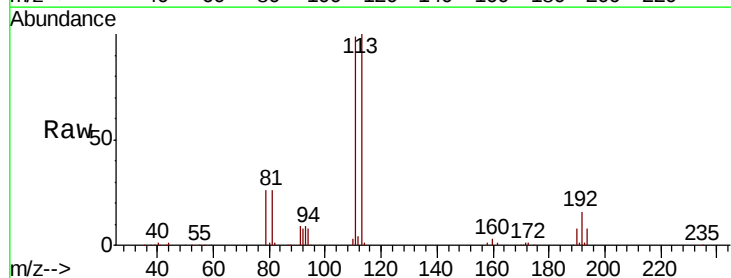
Instrument :
 MSVOA_N
 ClientSampleId :

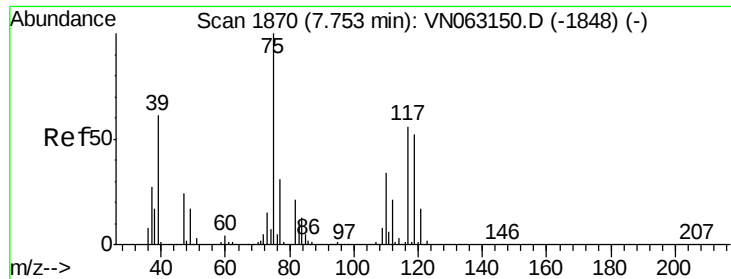
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	43.0
88	15.2	0.0	31.6



#35
 Dibromofluoromethane
 Concen: 48.682 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.7	121.1
192	16.7	12.6	19.0

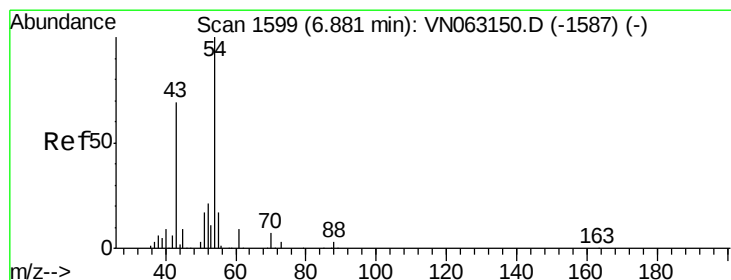
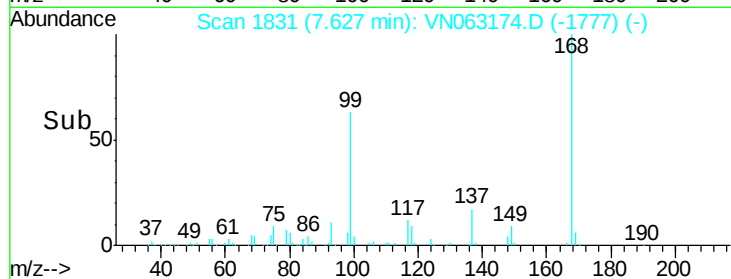
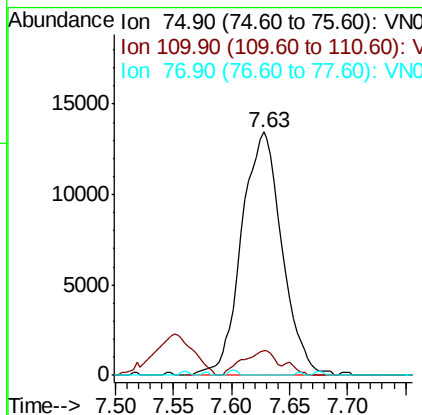
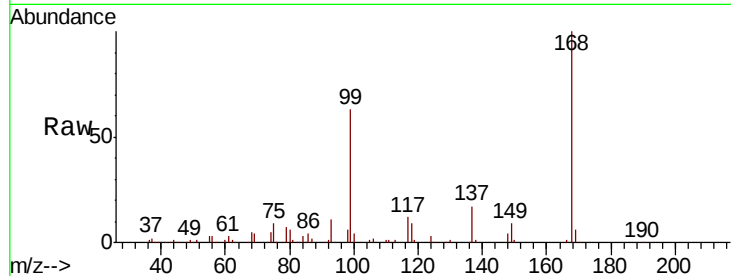




#36
 1,1-Dichloropropene
 Concen: 4.825 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

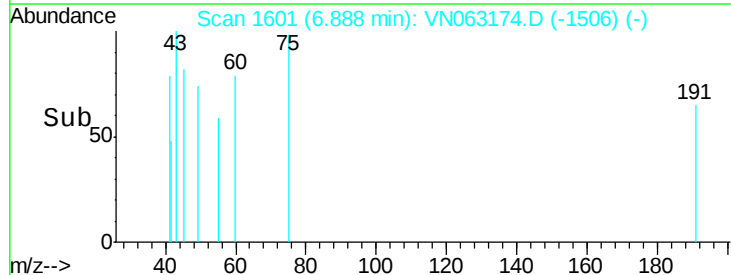
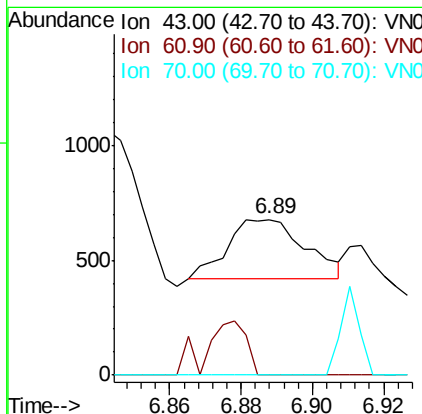
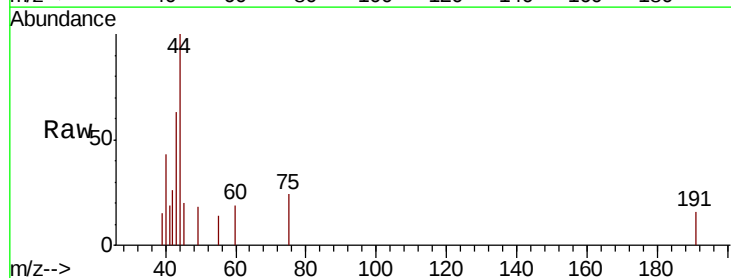
Instrument :
 MSVOA_N
 ClientSampled :

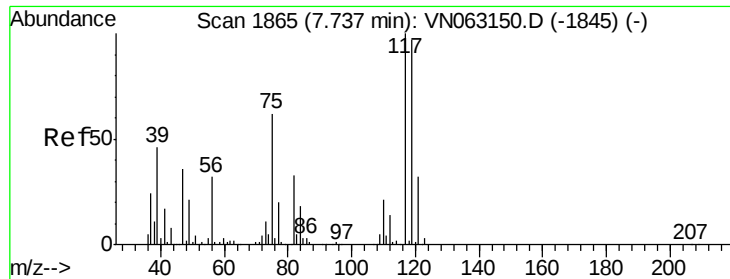
Tot Ion: 75 Resp: 32706
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.6 49.8#
 77 0.0 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 0.440 ug/l
 RT: 6.89 min Scan# 1601
 Delta R.T. 0.01 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

Tgt Ion: 43 Resp: 386
 Ion Ratio Lower Upper
 43 100
 61 47.4 10.2 15.4#
 70 0.0 3.0 4.6#





#38

Carbon Tetrachloride

Concen: 5.895 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

Instrument :

MSVOA_N

ClientSampleId :

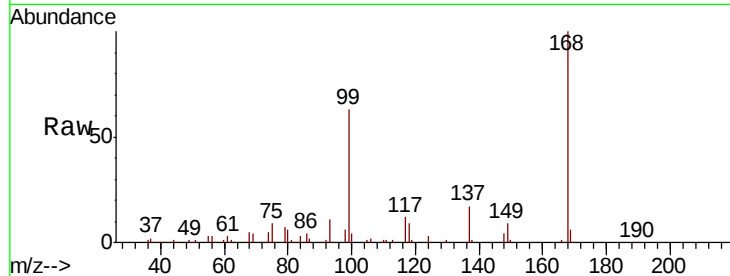
Tot Ion:117 Resp: 40527

Ion Ratio Lower Upper

117 100

119 5.4 77.2 115.8#

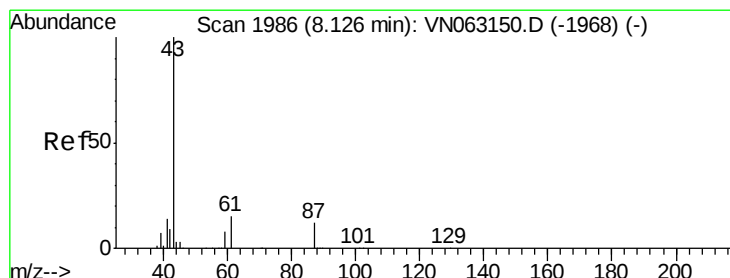
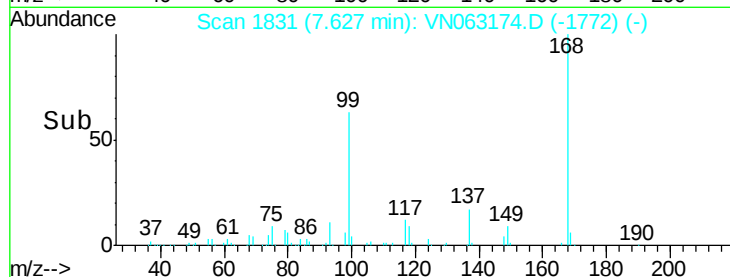
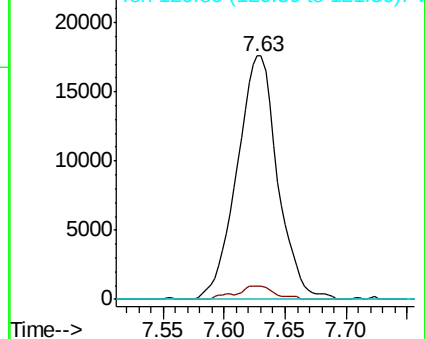
121 0.0 25.6 38.4#



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: 10.956 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

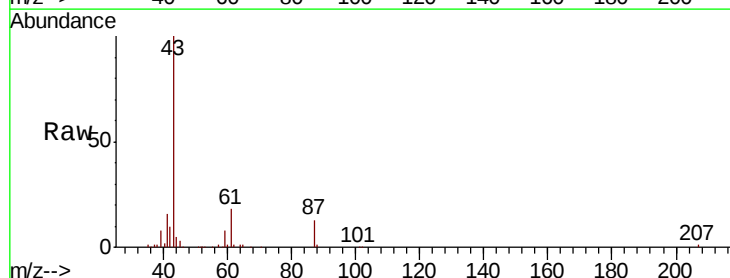
Tgt Ion: 43 Resp: 121117

Ion Ratio Lower Upper

43 100

61 18.0 20.2 30.4#

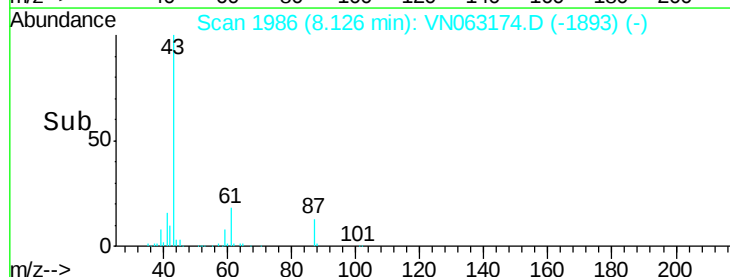
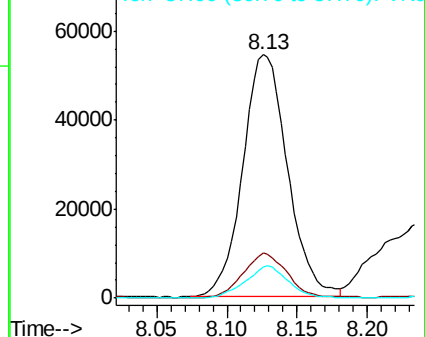
87 12.7 9.8 14.6

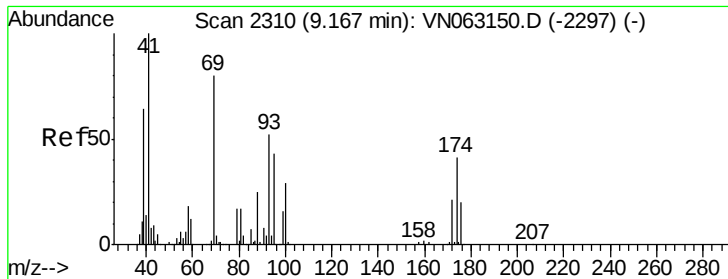


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

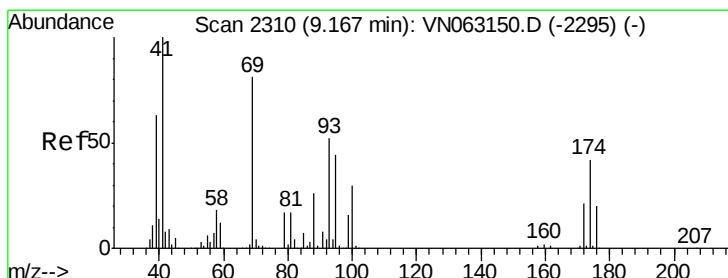
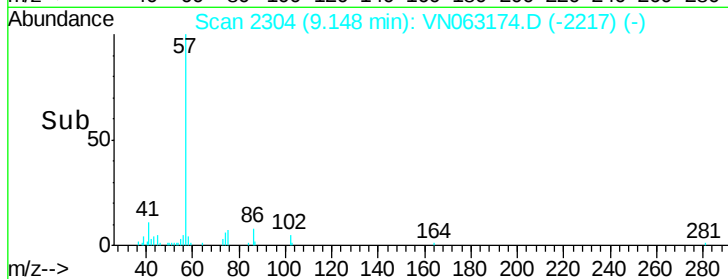
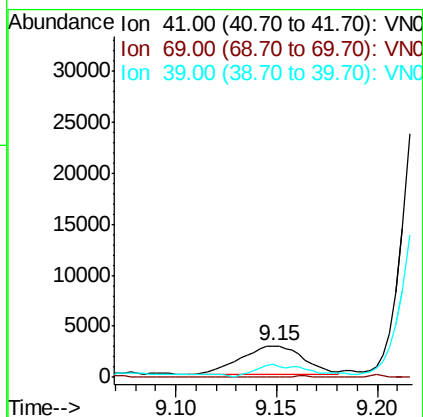
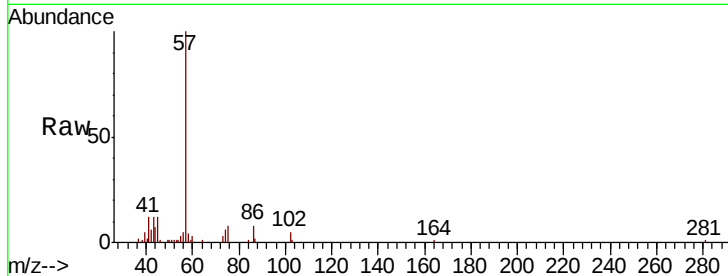




#48
Methvl methacrylate
Concen: 1.174 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

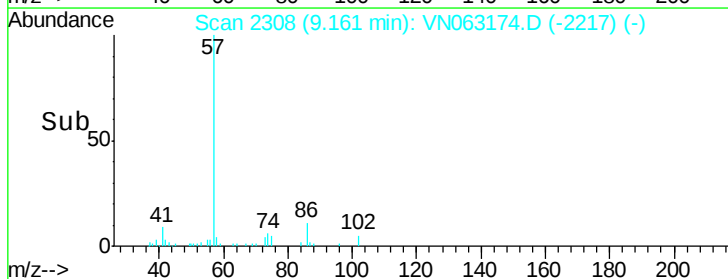
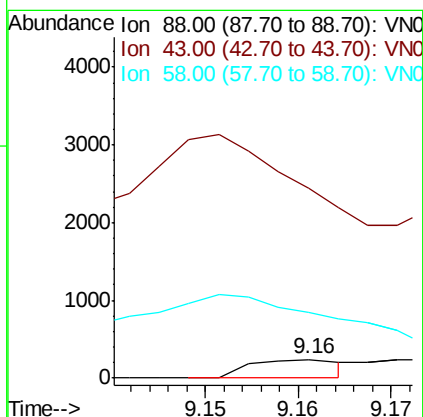
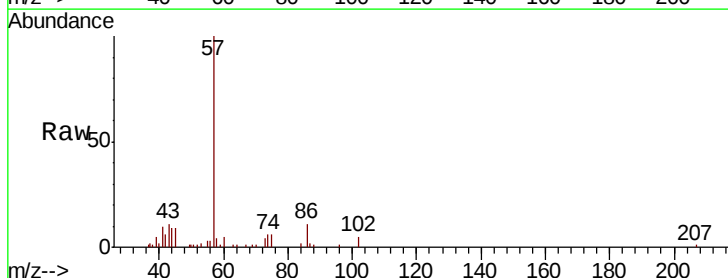
Instrument :
MSVOA_N
ClientSampleId :

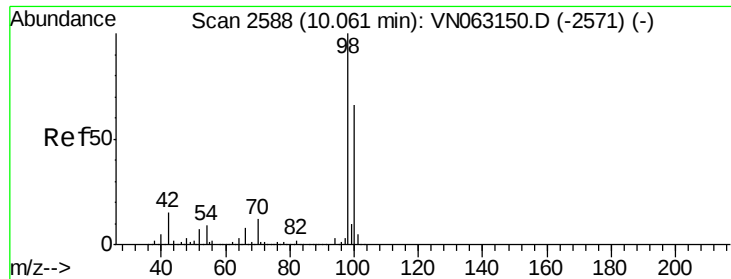
Tot Ion: 41 Resp: 5852
Ion Ratio Lower Upper
41 100
69 1.1 65.9 98.9#
39 0.0 52.0 78.0#



#49
1,4-Dioxane
Concen: 2.128 ug/l
RT: 9.16 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

Tgt Ion: 88 Resp: 164
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 1352.4 53.2 79.8#





#50

Toluene-d8

Concen: 50.949 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

Instrument :

MSVOA_N

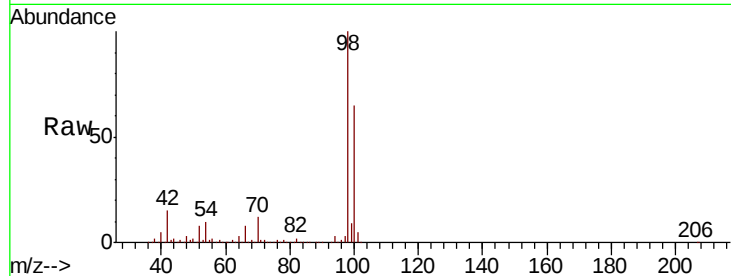
ClientSampled :

Tot Ion: 98 Resp: 887122

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN063150.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063150.D (-2571) (-)

10.06

500000

400000

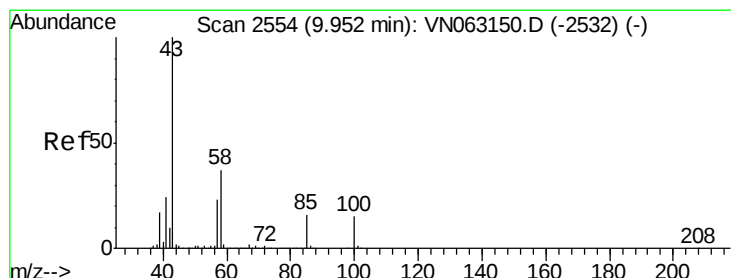
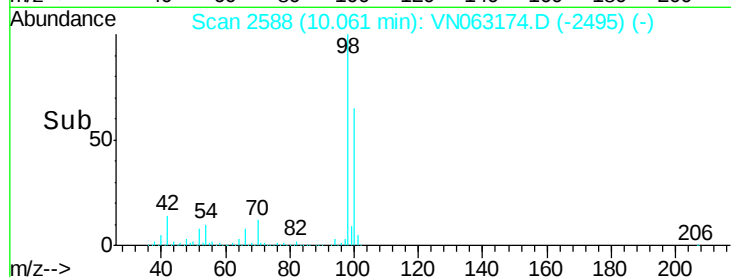
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.573 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063174.D

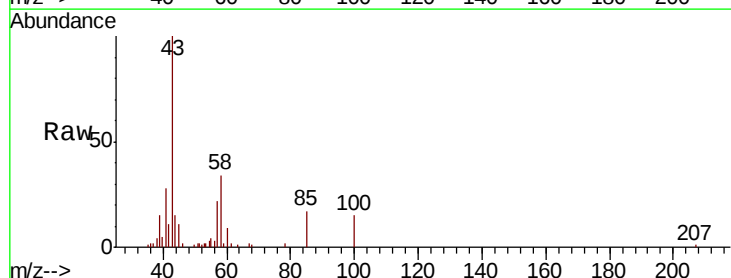
Acq: 1 Sep 2020 22:52

Tgt Ion: 43 Resp: 15458

Ion Ratio Lower Upper

43 100

58 38.7 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-2532) (-)

Ion 58.00 (57.70 to 58.70): VN063150.D (-2532) (-)

9.95

30000

25000

20000

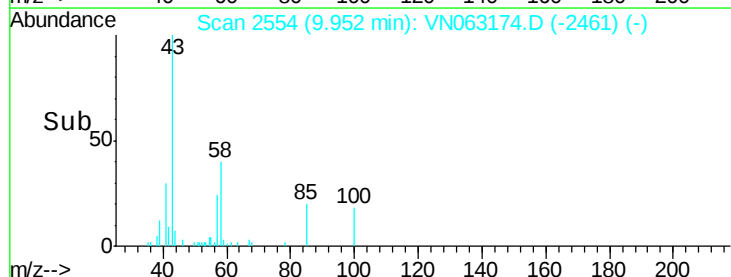
15000

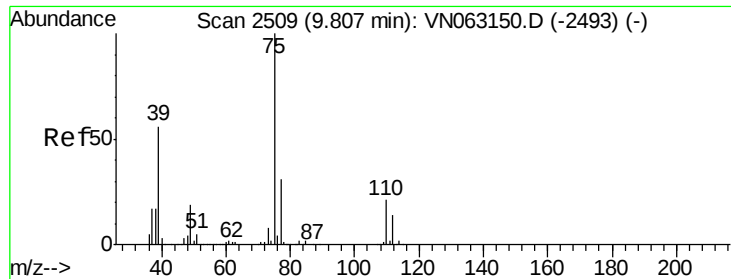
10000

5000

0

Time-->



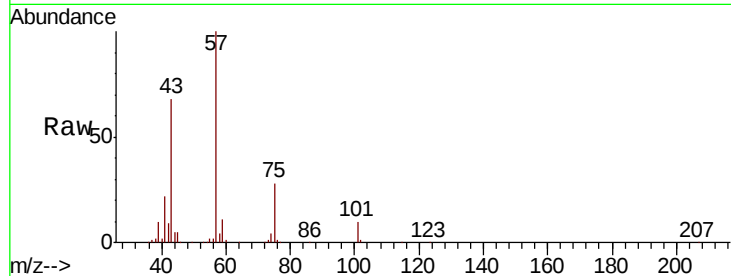


#54

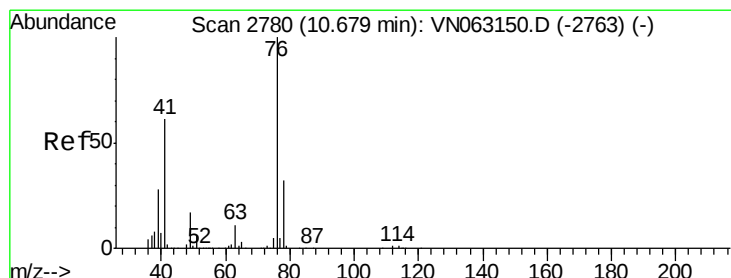
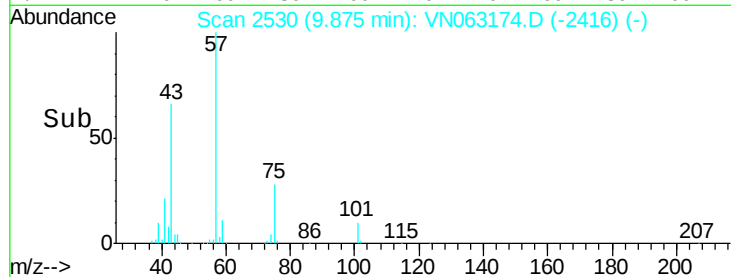
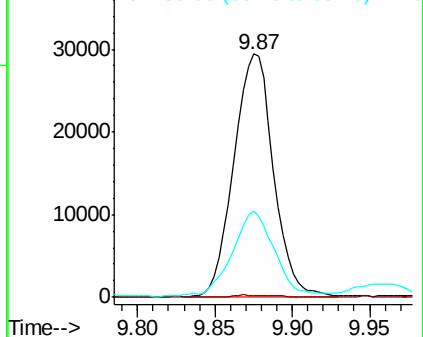
cis-1,3-Dichloropropene
 Concen: 6.118 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	24.8	37.2#
39	33.8	45.0	67.6#



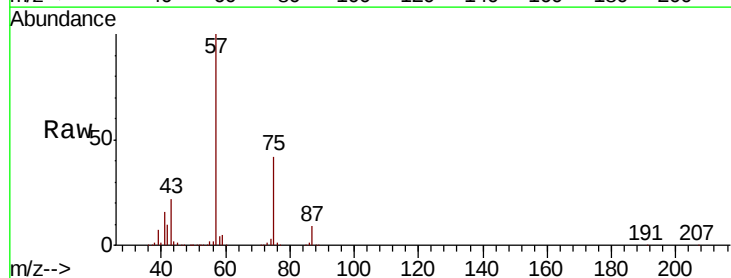
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



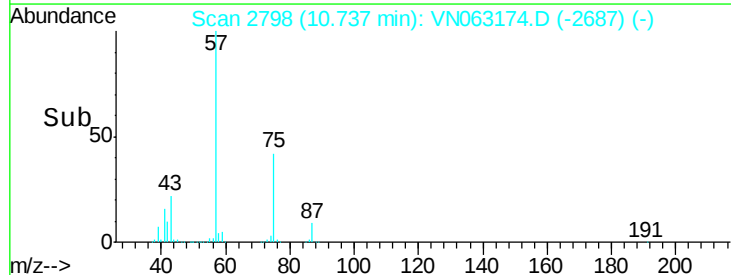
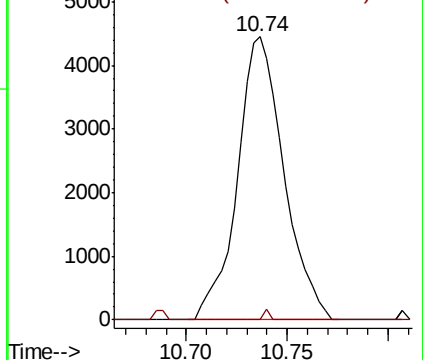
#57

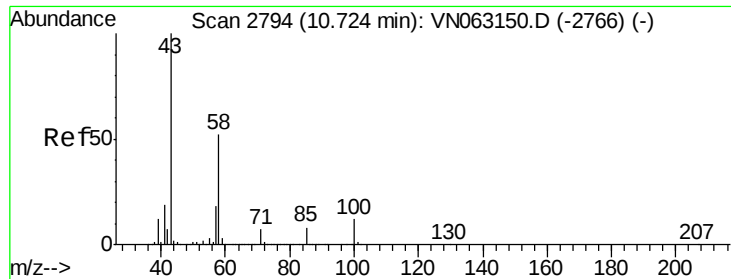
1,3-Dichloropropane
 Concen: 0.848 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063174.D
 Acq: 1 Sep 2020 22:52

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.4	25.5	38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

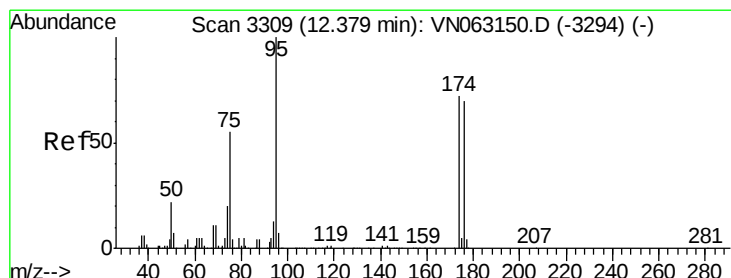
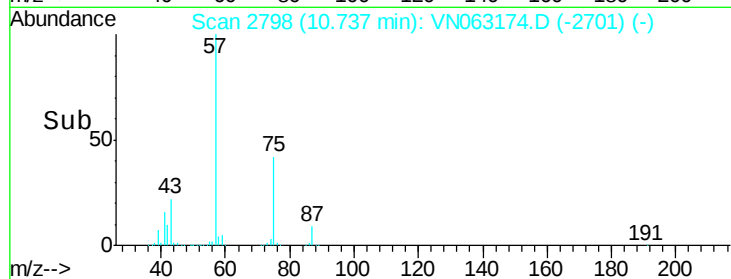
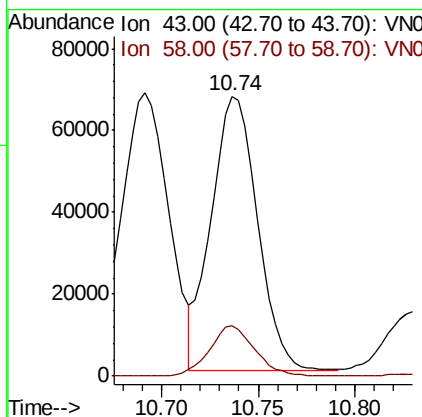
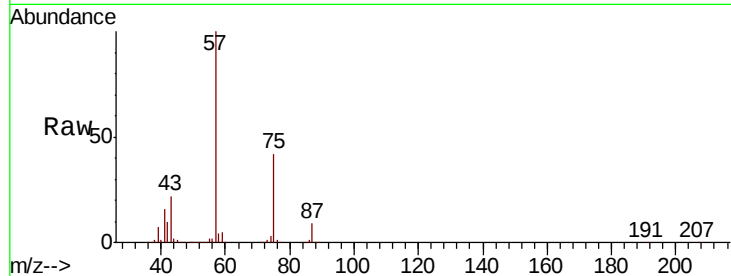




#59
2-Hexanone
Concen: 26.520 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

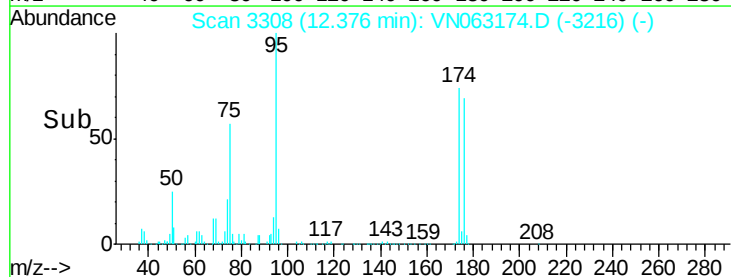
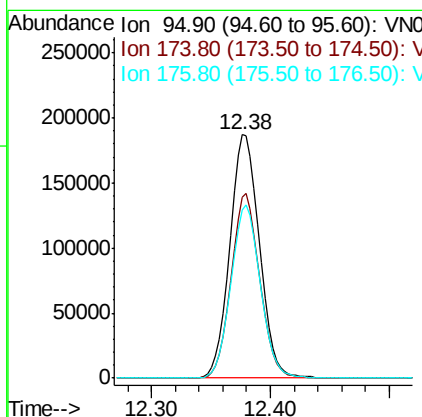
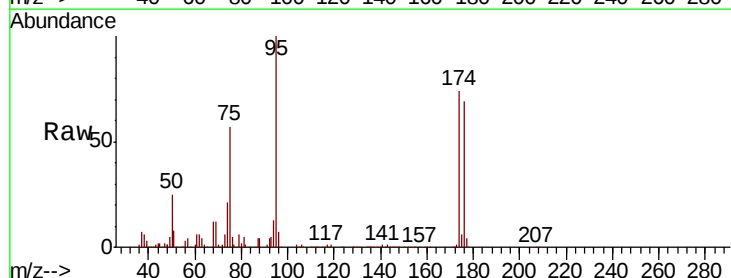
Instrument :
MSVOA_N
ClientSampled :

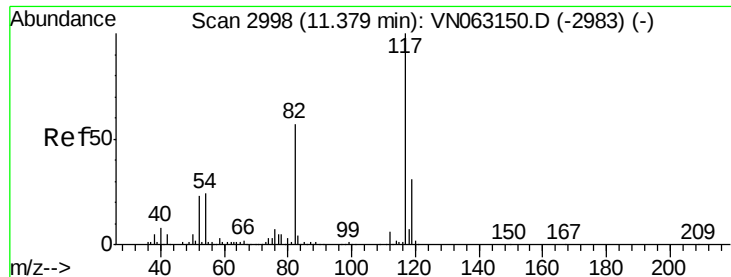
Tot Ion: 43 Resp: 111966
Ion Ratio Lower Upper
43 100
58 17.9 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 53.051 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

Tgt Ion: 95 Resp: 323125
Ion Ratio Lower Upper
95 100
174 73.0 0.0 143.8
176 70.3 0.0 138.4

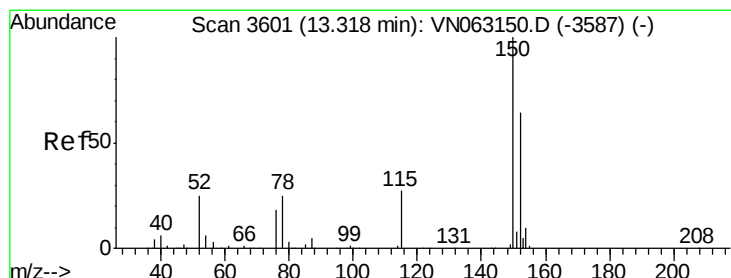
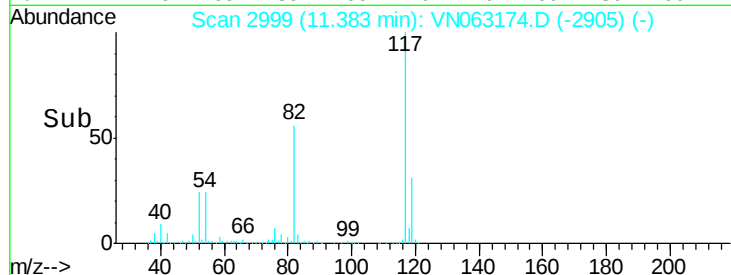
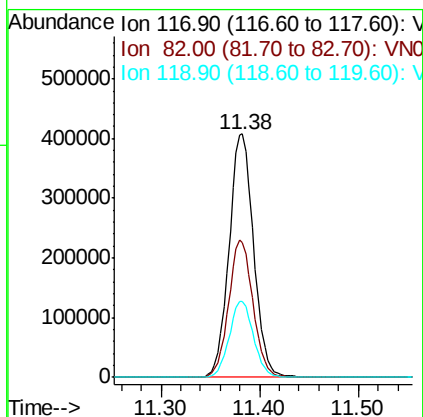
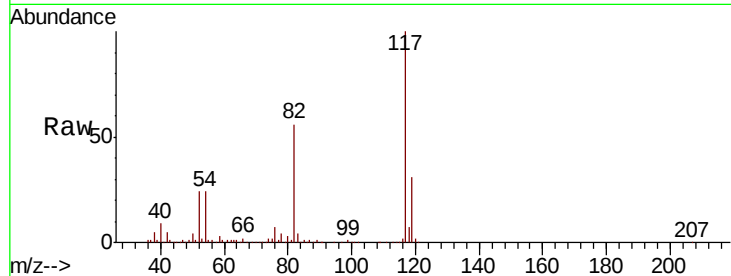




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2999
Delta R.T. 0.00 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

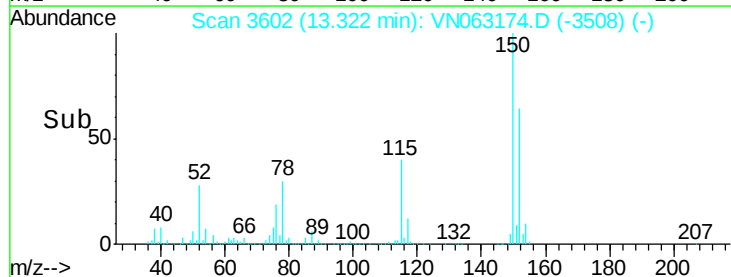
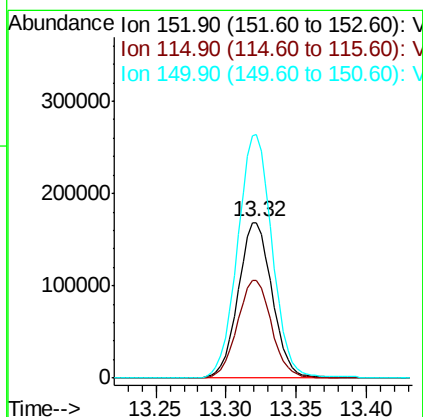
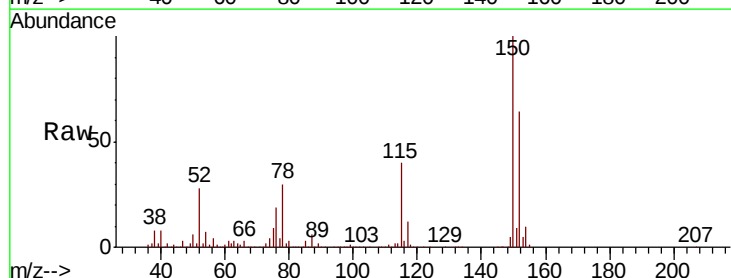
Instrument :
MSVOA_N
ClientSampled :

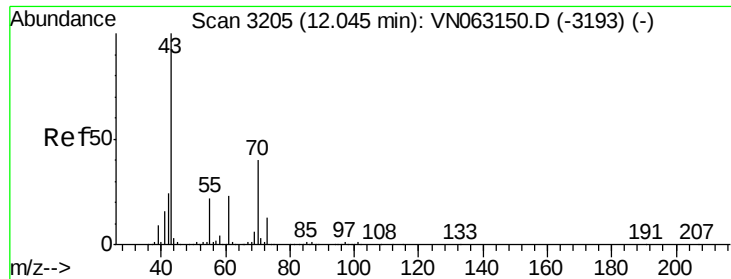
Tot Ion:117 Resp: 708623
Ion Ratio Lower Upper
117 100
82 55.6 45.4 68.0
119 31.4 24.6 37.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3602
Delta R.T. 0.00 min
Lab File: VN063174.D
Acq: 1 Sep 2020 22:52

Tgt Ion:152 Resp: 284981
Ion Ratio Lower Upper
152 100
115 63.3 32.0 96.2
150 160.0 0.0 353.0





#74

N-amvl acetate

Concen: 0.735 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 6651

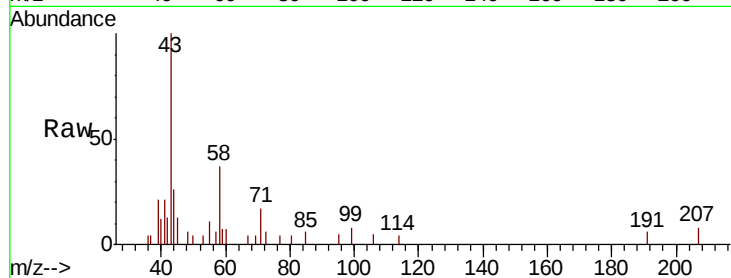
Ion Ratio Lower Upper

43 100

70 0.0 32.1 48.1#

55 0.0 17.4 26.0#

61 2.4 18.6 27.8#

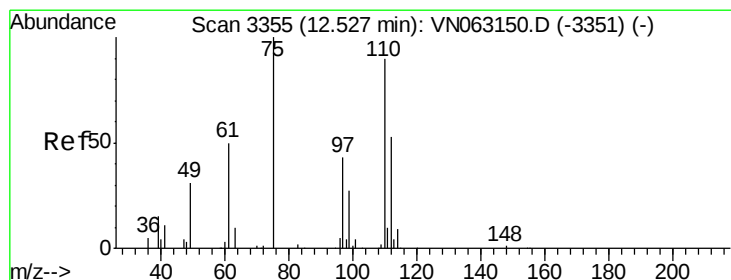
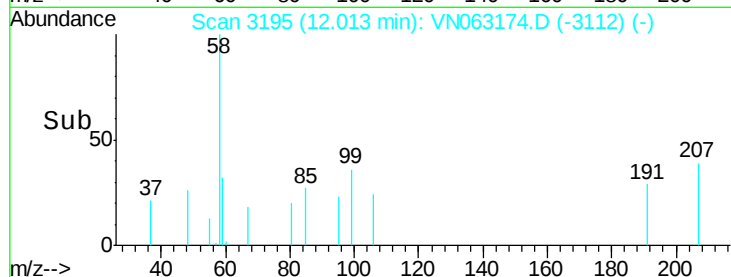
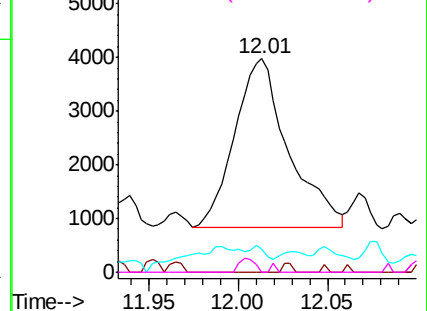


Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-3193) (-)

Ion 70.00 (69.70 to 70.70): VN063150.D (-3193) (-)

Ion 55.00 (54.70 to 55.70): VN063150.D (-3193) (-)

Ion 61.00 (60.70 to 61.70): VN063150.D (-3193) (-)



#76

1,2,3-Trichloropropane

Concen: 33.212 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063174.D

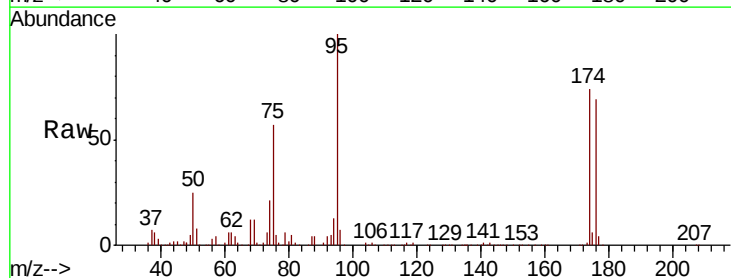
Acq: 1 Sep 2020 22:52

Tgt Ion: 75 Resp: 185965

Ion Ratio Lower Upper

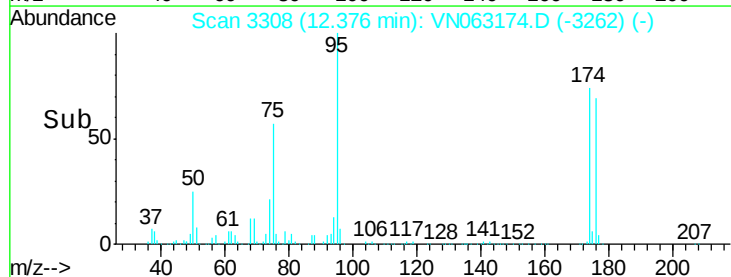
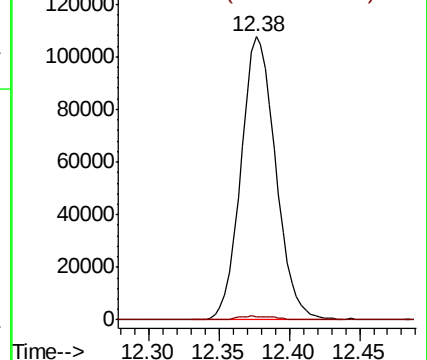
75 100

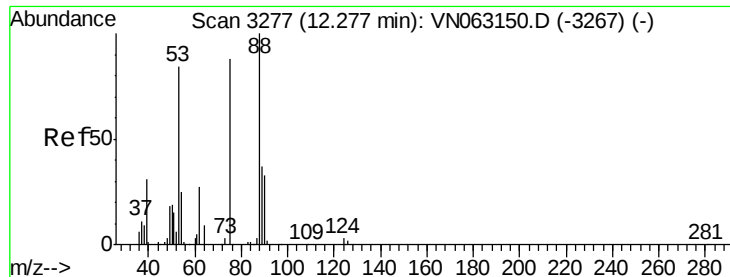
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063150.D (-3351) (-)

Ion 77.00 (76.70 to 77.70): VN063150.D (-3351) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 80.274 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063174.D

Acq: 1 Sep 2020 22:52

Instrument :

MSVOA_N

ClientSampleId :

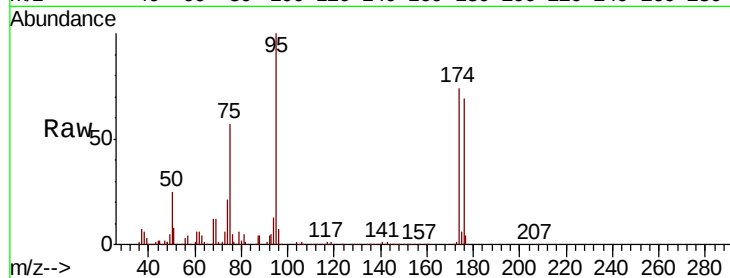
Tot Ion: 75 Resp: 185965

Ion Ratio Lower Upper

75 100

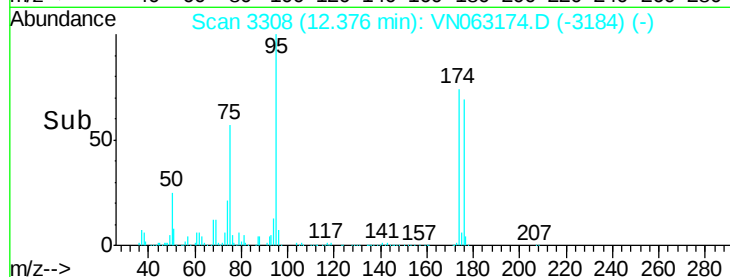
53 0.1 78.7 118.1#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

12.38



Time-->