

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063835.D
 Acq On : 2 Oct 2020 20:44
 Operator : JC/MD
 Sample : PB132030ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#14

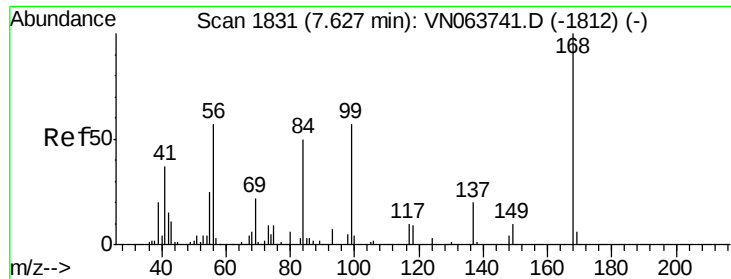
Quant Time: Oct 05 04:19:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	209831	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	409691	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	416277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	165094	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	188955	54.51	ug/l	0.00
Spiked Amount			Recovery	=	109.02%	
35) Dibromofluoromethane	7.55	113	134011	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
50) Toluene-d8	10.06	98	512202	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
62) 4-Bromofluorobenzene	12.38	95	204602	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	183	0.478	ug/l #	71
16) Acetone	3.78	43	13855	12.984	ug/l	98
17) Carbon Disulfide	4.01	76	30	0.706	ug/l #	76
18) Methyl Acetate	4.29	43	1748	0.631	ug/l #	73
20) Methylene Chloride	4.50	84	12244	5.098	ug/l	96
25) 2-Butanone	6.77	43	1079	0.713	ug/l #	51
29) Tetrahydrofuran	7.17	42	545	0.537	ug/l #	45
31) Cyclohexane	7.62	56	5949	1.478	ug/l #	28
36) 1,1-Dichloropropene	7.62	75	19572	4.715	ug/l #	47
38) Carbon Tetrachloride	7.62	117	23040	4.950	ug/l #	16
43) Isopropyl Acetate	8.13	43	74412	10.940	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1873	0.585	ug/l #	44
48) Methyl methacrylate	9.23	41	144305	42.942	ug/l #	46
49) 1,4-Dioxane	9.23	88	139	2.910	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	8441	2.115	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	29431	5.767	ug/l #	75
56) Ethyl methacrylate	10.51	69	2043	0.490	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5208	1.047	ug/l #	43
59) 2-Hexanone	10.74	43	90180	30.413	ug/l #	55
74) N-amyl acetate	12.01	43	3877	2.878	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	114828	31.552	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	5991	0.593	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	114828	90.875	ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

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MSVOA_N

ClientSampleId :

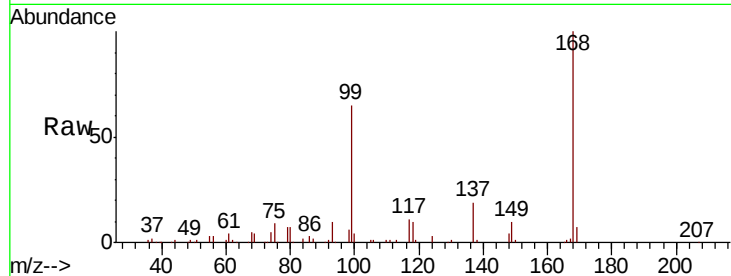
PB132030ZHE#14

Tot Ion:168 Resp: 209831

Ion Ratio Lower Upper

168 100

99 64.7 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

60000

40000

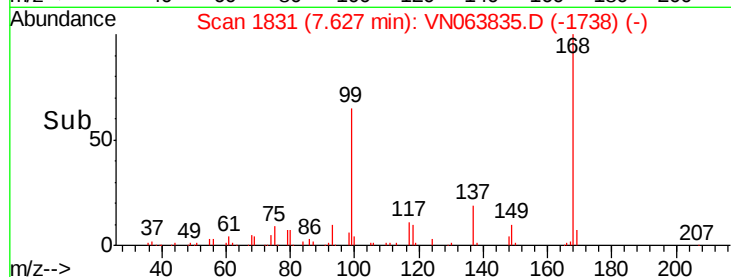
20000

0

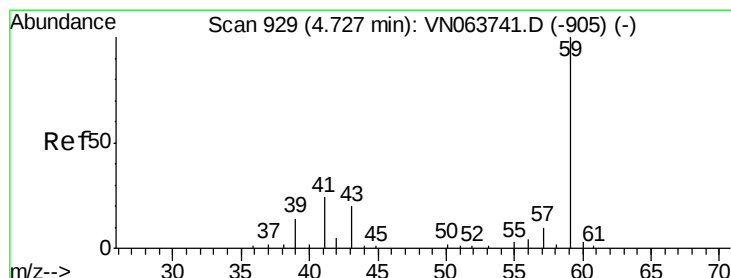
7.50

7.60

7.70



Time-->



#11

Tert butyl alcohol

Concen: 0.478 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.01 min

Lab File: VN063835.D

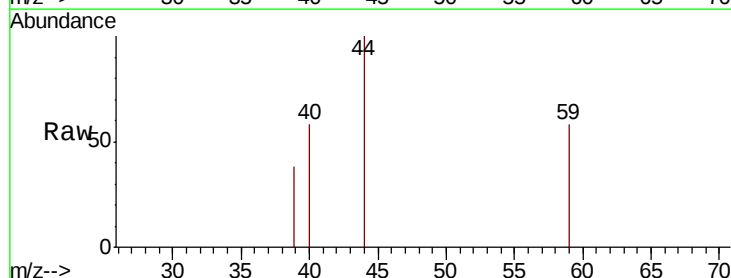
Acq: 2 Oct 2020 20:44

Tgt Ion: 59 Resp: 183

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

300

250

200

150

100

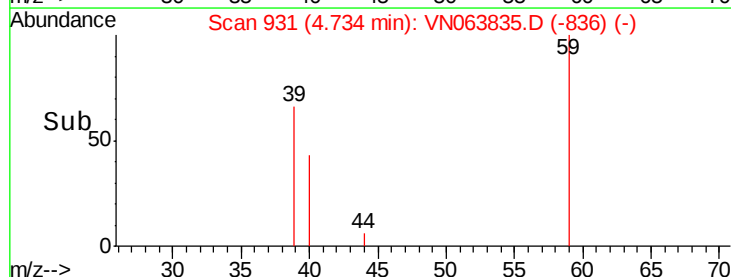
50

0

4.72

4.73

4.74



Time-->



#16

Acetone

Concen: 12.984 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

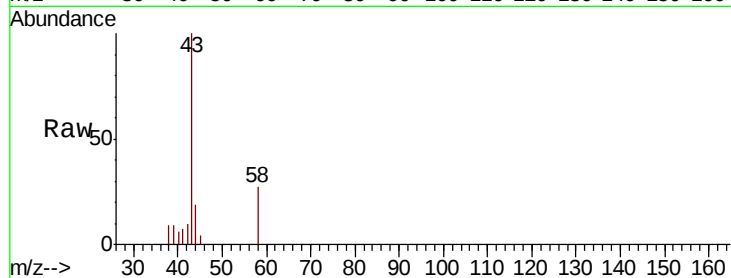
PB132030ZHE#14

Tot Ion: 43 Resp: 13855

Ion Ratio Lower Upper

43 100

58 26.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063835.D (-635) (-)

Ion 58.00 (57.70 to 58.70): VN063835.D (-635) (-)

3.78

5000

4000

3000

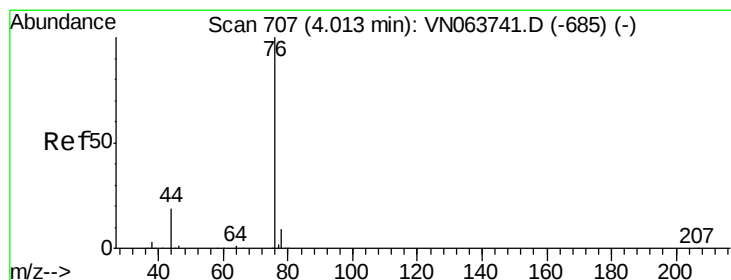
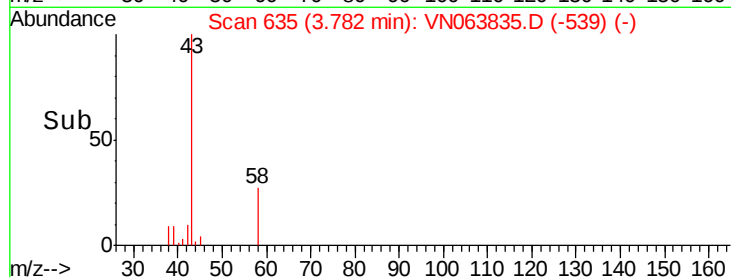
2000

1000

0

3.70 3.75 3.80 3.85

Time-->



#17

Carbon Disulfide

Concen: 0.706 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063835.D

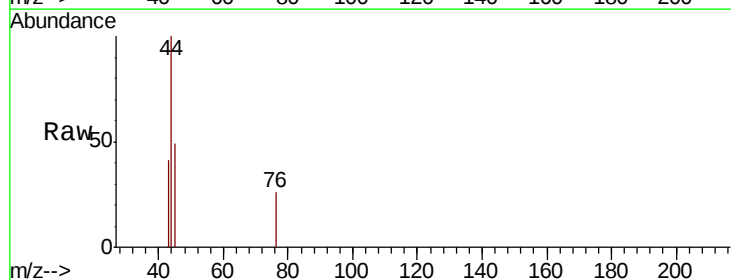
Acq: 2 Oct 2020 20:44

Tgt Ion: 76 Resp: 30

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063835.D (-706) (-)

Ion 77.90 (77.60 to 78.60): VN063835.D (-706) (-)

4.01

150

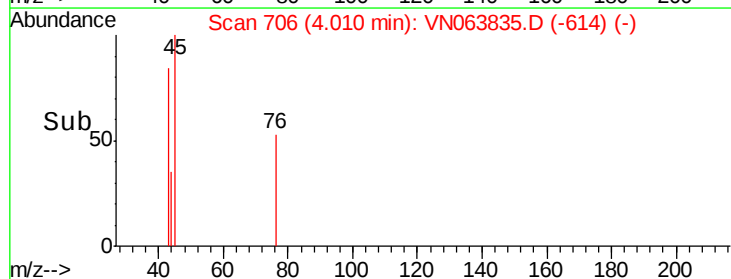
100

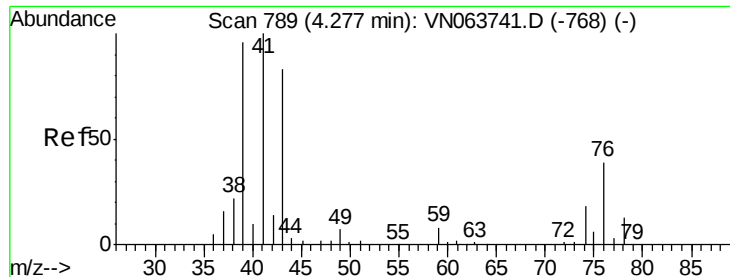
50

0

4.00 4.00 4.01 4.01 4.02

Time-->

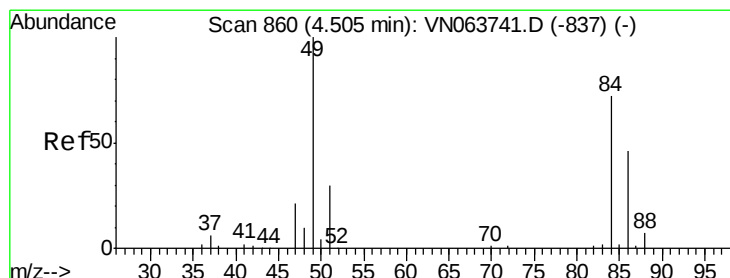
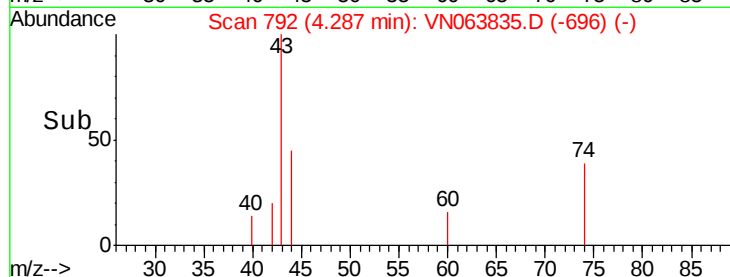
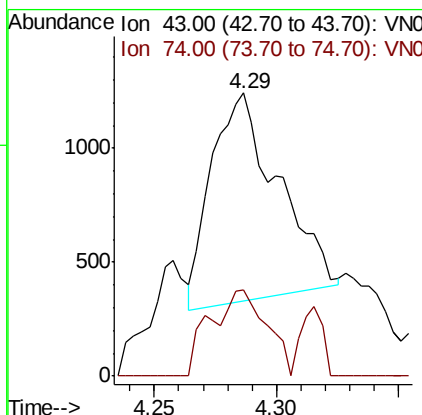
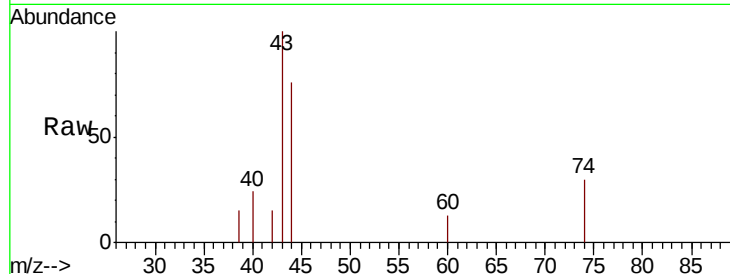




#18
Methyl Acetate
Concen: 0.631 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

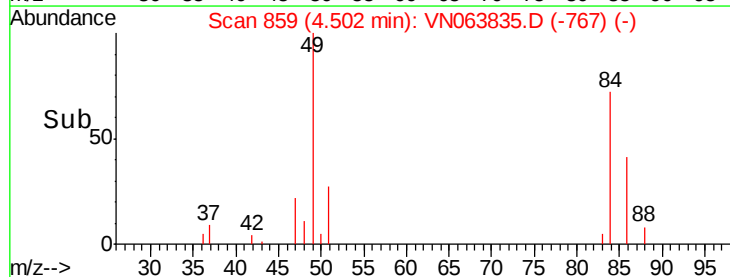
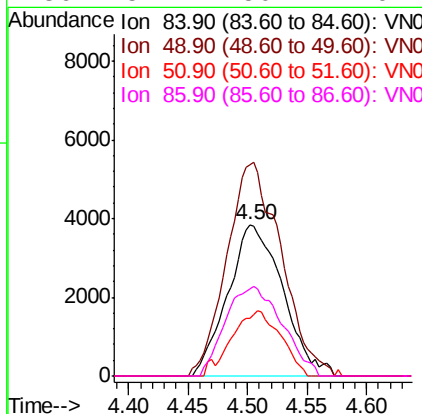
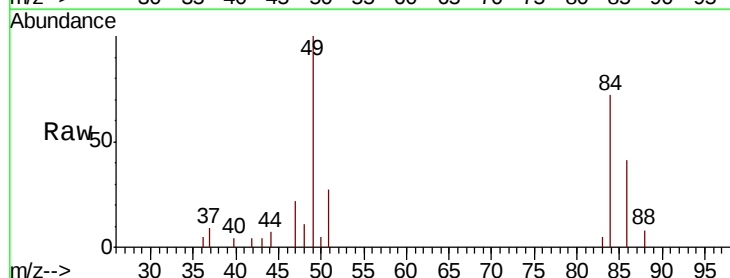
Instrument :
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PB132030ZHE#14

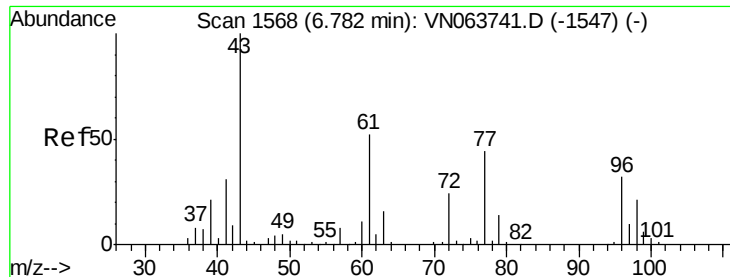
Tot Ion: 43 Resp: 1748
Ion Ratio Lower Upper
43 100
74 34.4 17.4 26.2#



#20
Methylene Chloride
Concen: 5.098 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

Tgt Ion: 84 Resp: 12244
Ion Ratio Lower Upper
84 100
49 139.4 110.4 165.6
51 38.1 33.3 49.9
86 57.4 50.7 76.1

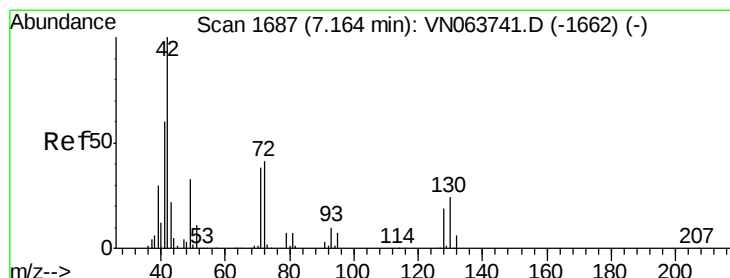
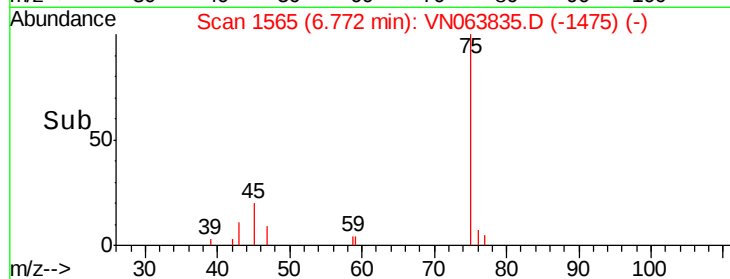
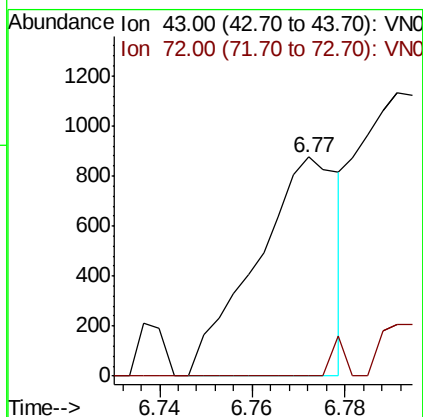
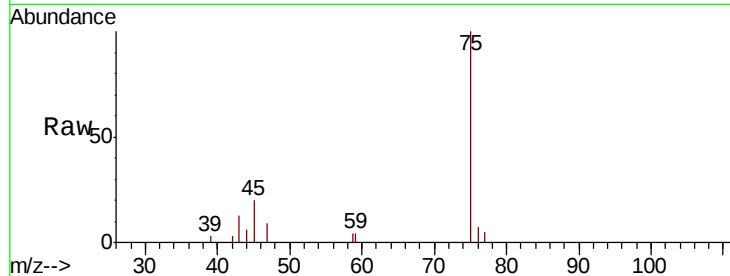




#25
2-Butanone
Concen: 0.713 ug/l
RT: 6.77 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

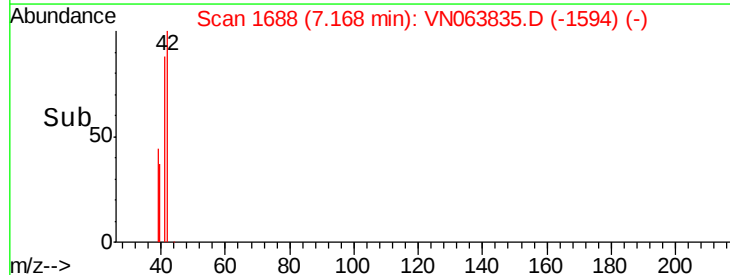
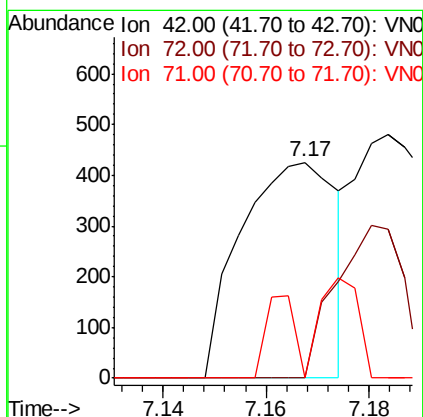
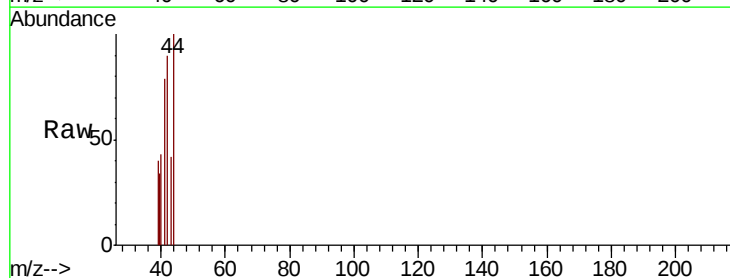
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#14

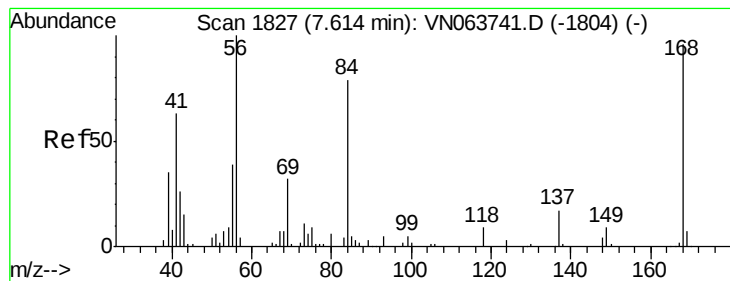
Tot Ion: 43 Resp: 1079
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.537 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

Tgt Ion: 42 Resp: 545
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 11.4 30.6 45.8#





#31

Cyclohexane

Concen: 1.478 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#14

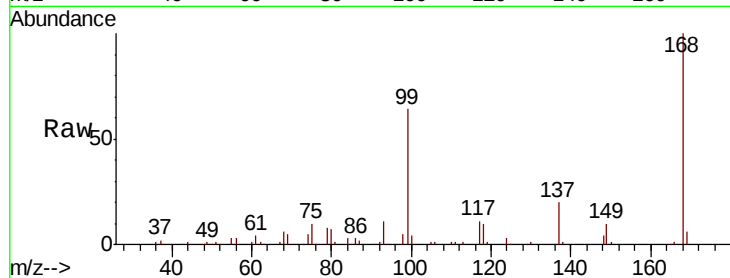
Tot Ion: 56 Resp: 5949

Ion Ratio Lower Upper

56 100

69 148.7 25.4 38.2#

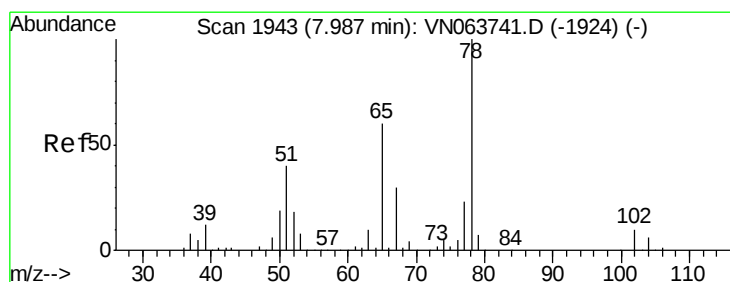
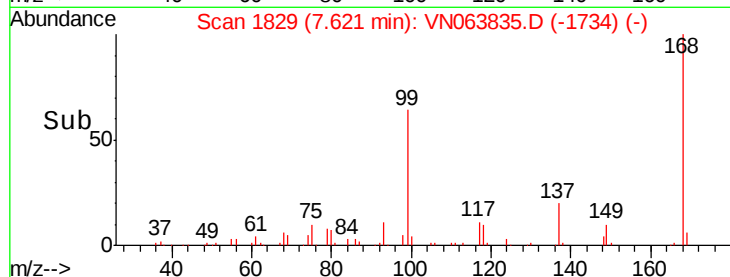
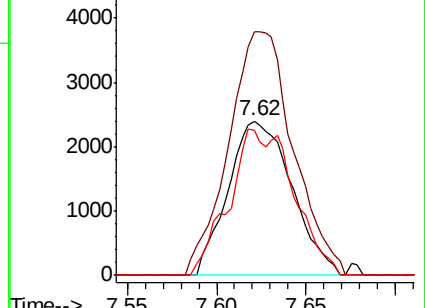
84 93.7 63.3 94.9



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.508 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063835.D

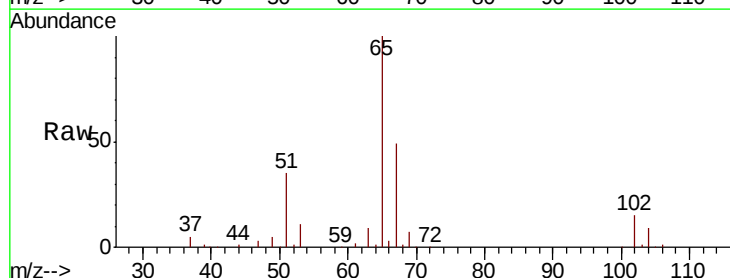
Acq: 2 Oct 2020 20:44

Tgt Ion: 65 Resp: 188955

Ion Ratio Lower Upper

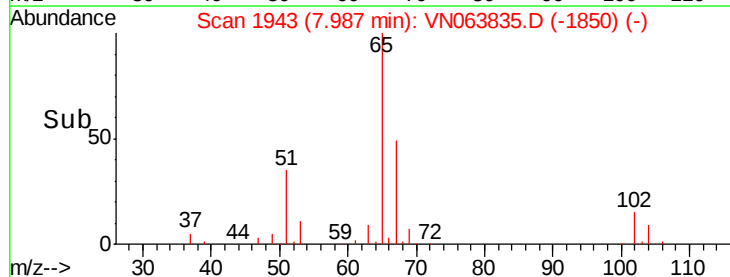
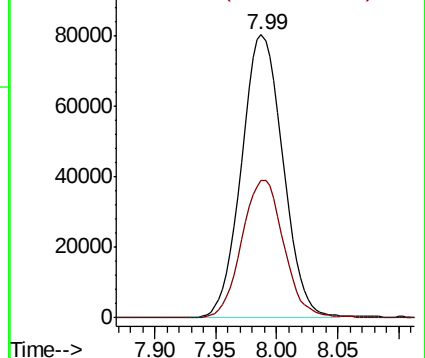
65 100

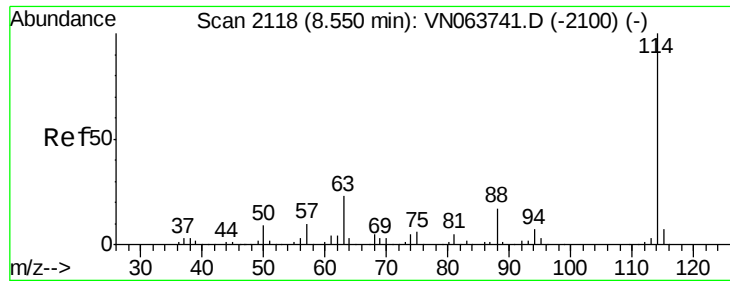
67 48.9 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

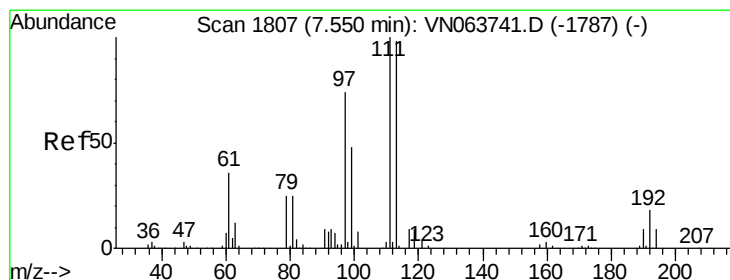
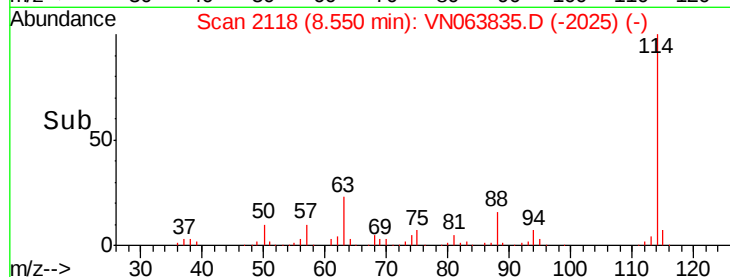
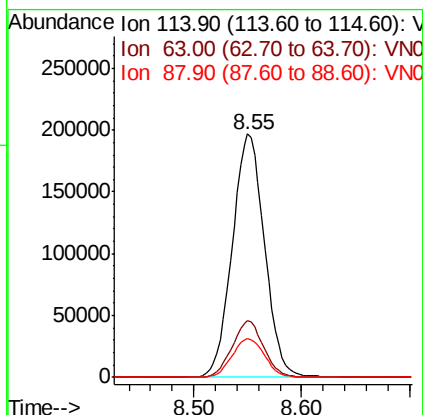
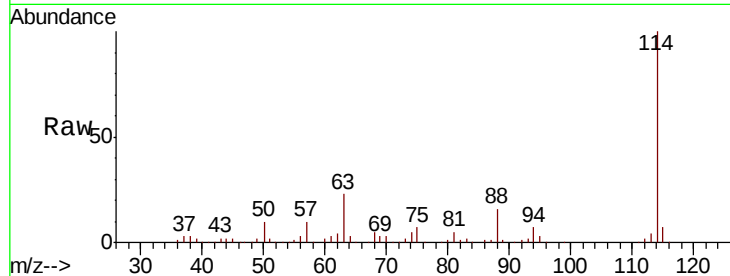




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063835.D
 Acq: 2 Oct 2020 20:44

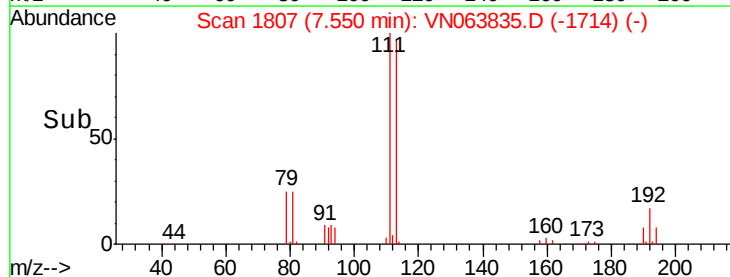
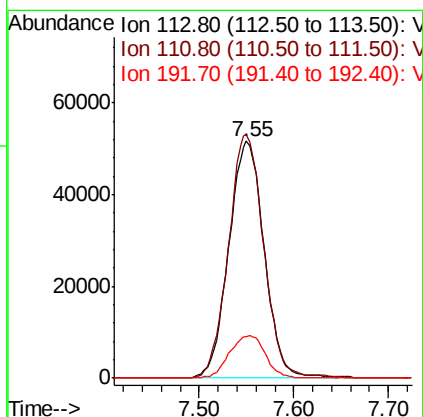
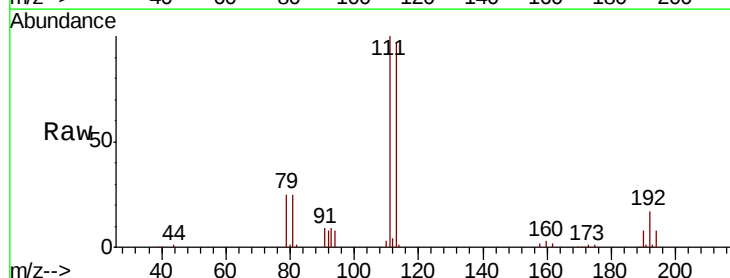
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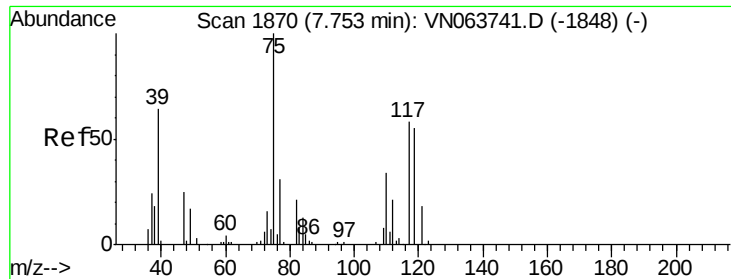
Tot Ion:114 Resp: 409691
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.0
 88 15.8 0.0 34.0



#35
 Dibromofluoromethane
 Concen: 47.141 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063835.D
 Acq: 2 Oct 2020 20:44

Tgt Ion:113 Resp: 134011
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.8 122.8
 192 18.2 14.2 21.2





#36

1,1-Dichloropropene

Concen: 4.715 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#14

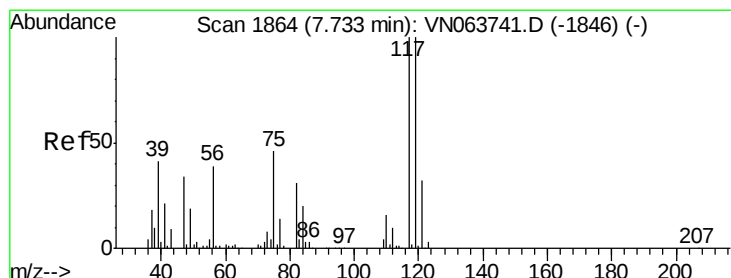
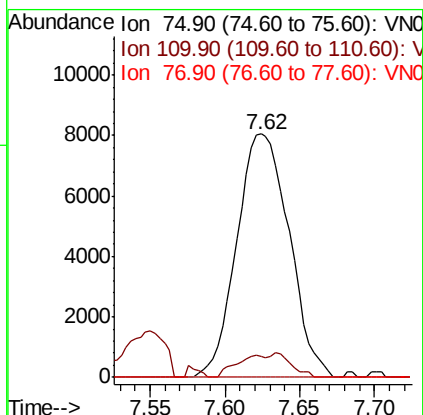
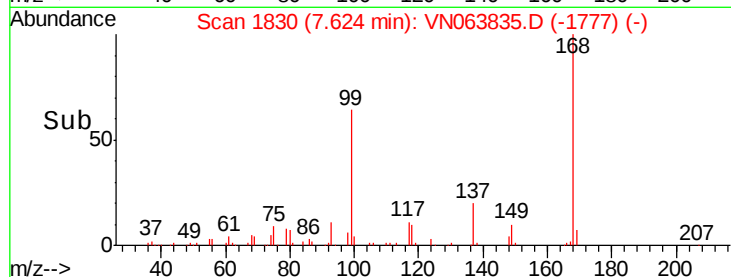
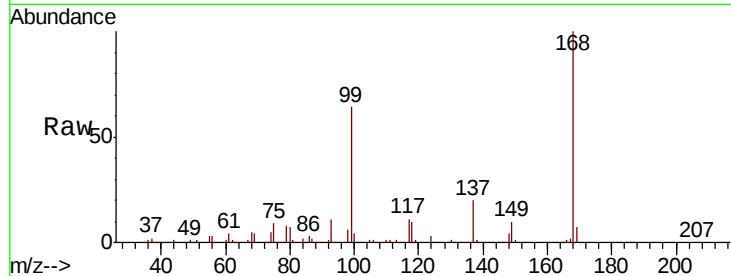
Tot Ion: 75 Resp: 19572

Ion Ratio Lower Upper

75 100

110 5.3 16.9 50.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 4.950 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

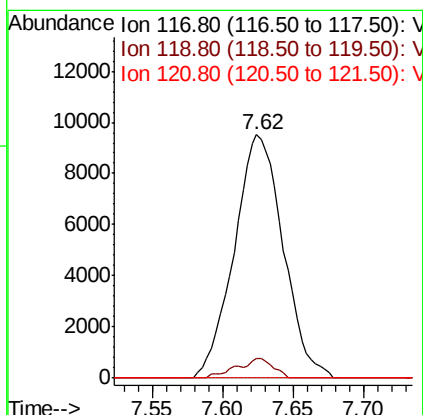
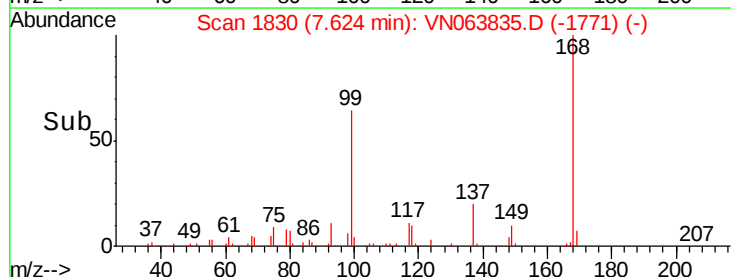
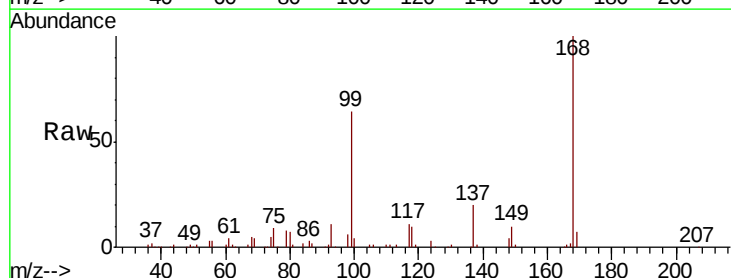
Tgt Ion: 117 Resp: 23040

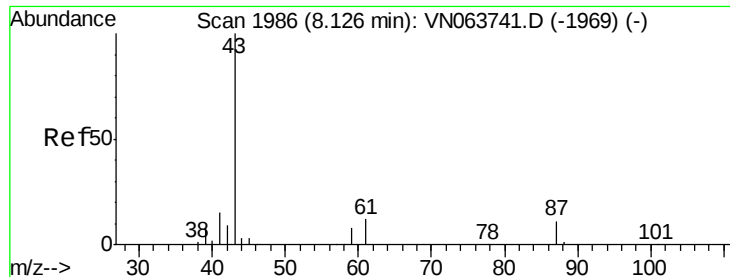
Ion Ratio Lower Upper

117 100

119 8.0 80.1 120.1#

121 0.0 25.7 38.5#



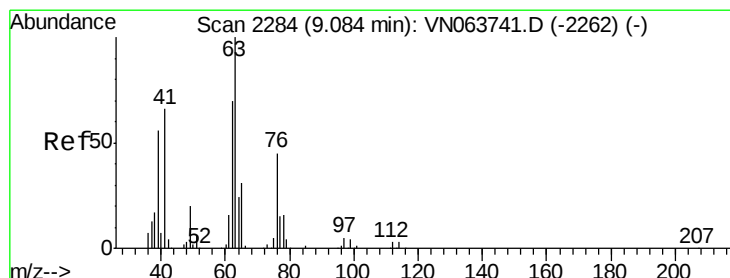
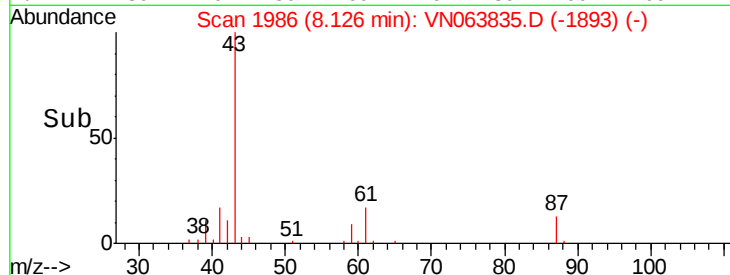
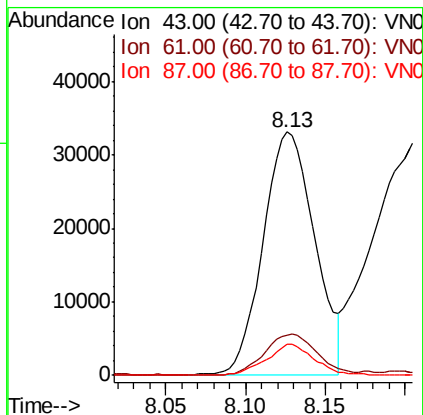
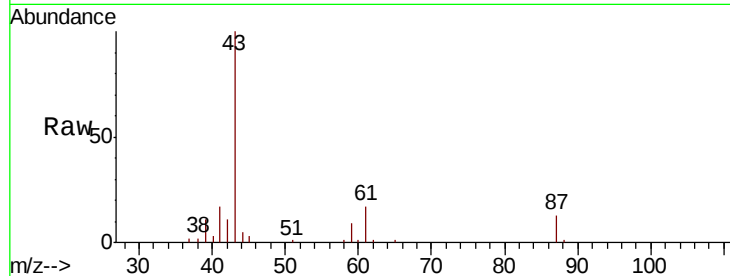


#43

Isopropyl Acetate
 Concen: 10.940 ug/l
 RT: 8.13 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VN063835.D
 Acq: 2 Oct 2020 20:44

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#14

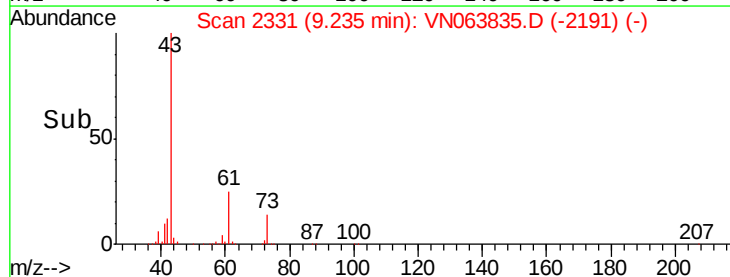
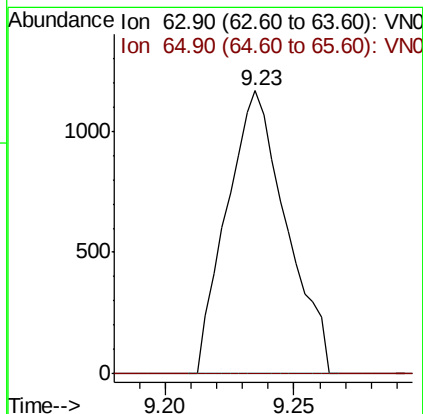
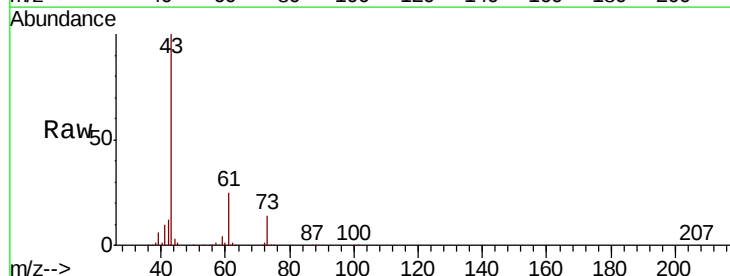
Tot Ion: 43 Resp: 74412
 Ion Ratio Lower Upper
 43 100
 61 17.1 14.2 21.4
 87 11.8 9.0 13.6

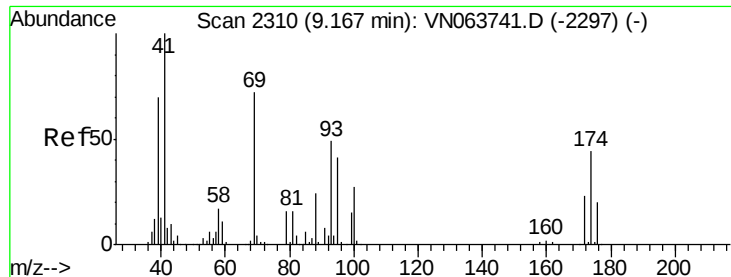


#45

1,2-Dichloropropane
 Concen: 0.585 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN063835.D
 Acq: 2 Oct 2020 20:44

Tgt Ion: 63 Resp: 1873
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#

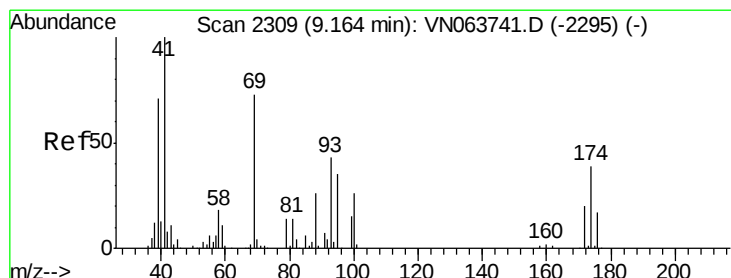
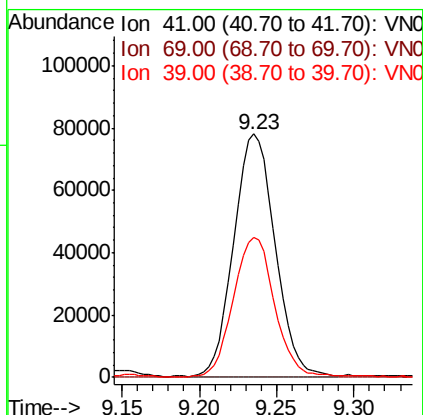
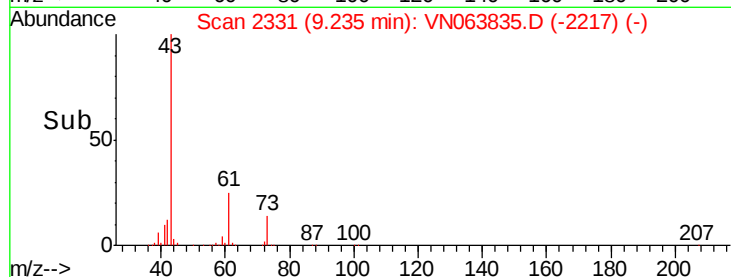
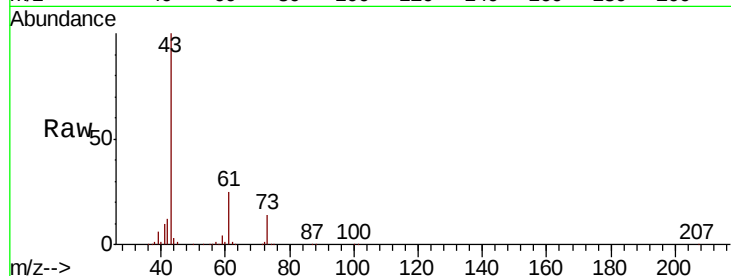




#48
Methvl methacrylate
Concen: 42.942 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

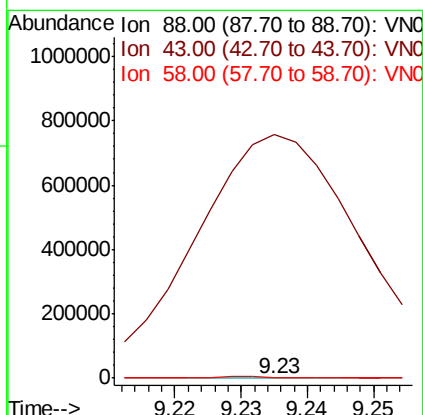
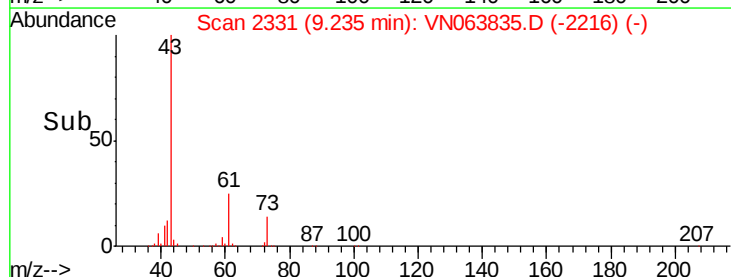
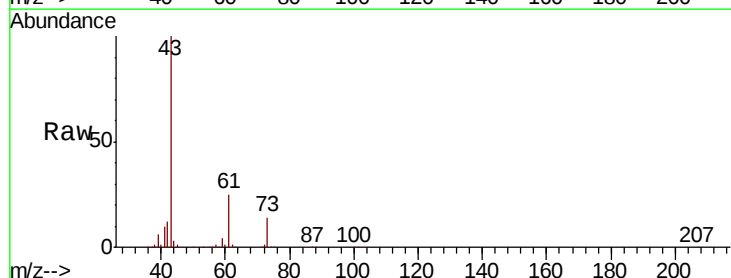
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#14

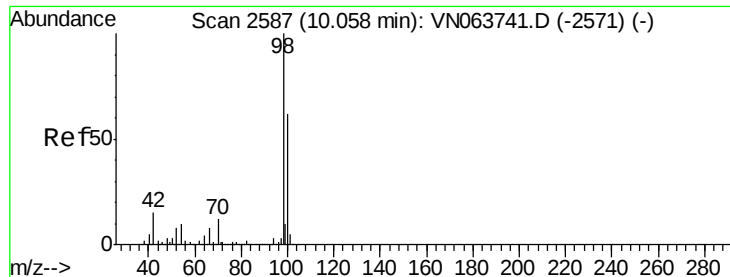
Tot Ion: 41 Resp: 144305
Ion Ratio Lower Upper
41 100
69 0.1 60.9 91.3#
39 57.4 57.5 86.3#



#49
1,4-Dioxane
Concen: 2.910 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

Tgt Ion: 88 Resp: 139
Ion Ratio Lower Upper
88 100
43 988292.1 33.1 49.7#
58 4544.6 58.9 88.3#





#50

Toluene-d8

Concen: 47.529 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

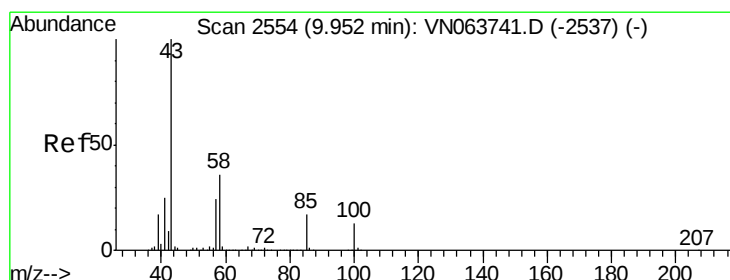
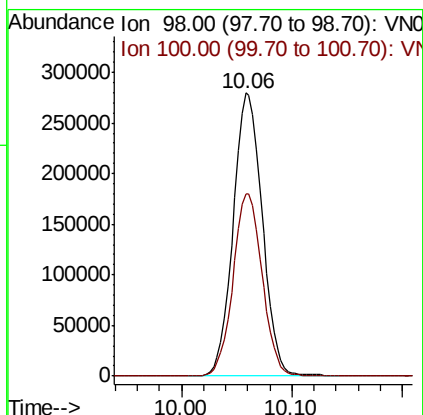
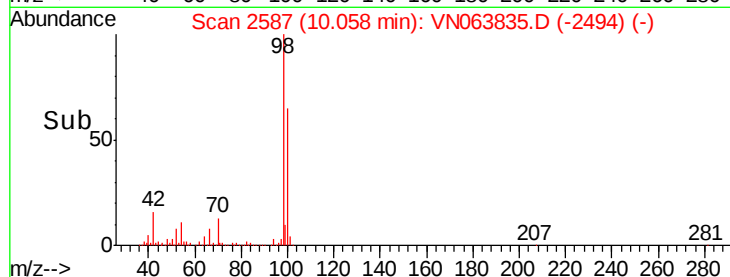
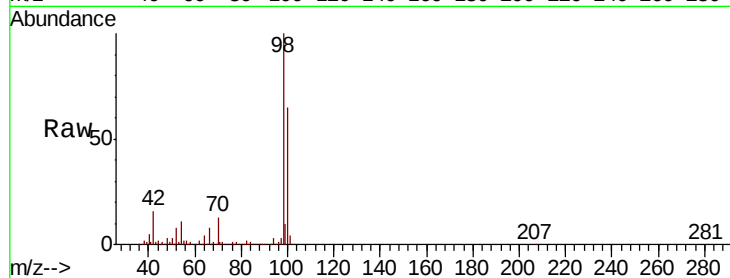
PB132030ZHE#14

Tot Ion: 98 Resp: 512202

Ion Ratio Lower Upper

98 100

100 64.3 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 2.115 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063835.D

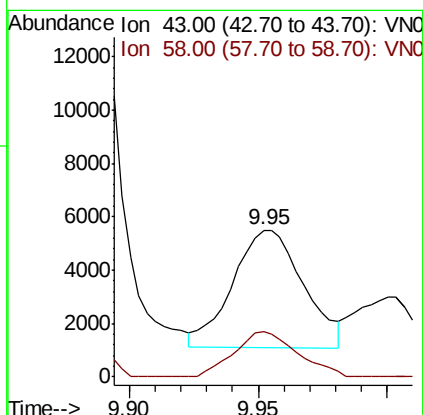
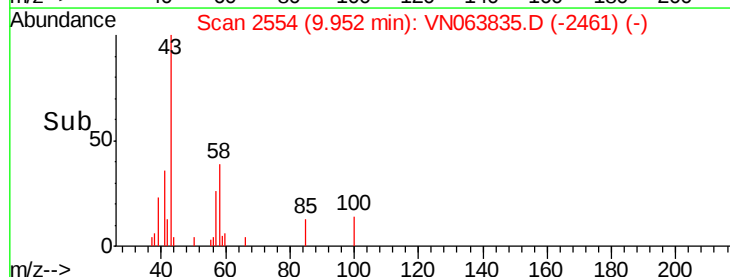
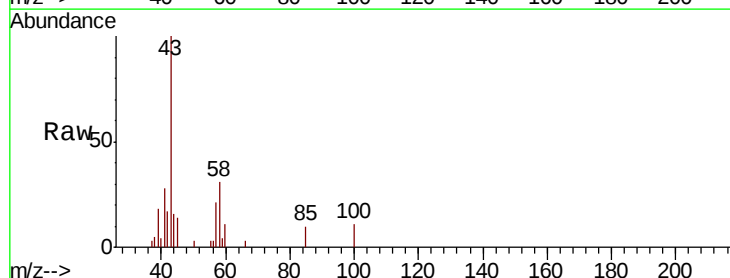
Acq: 2 Oct 2020 20:44

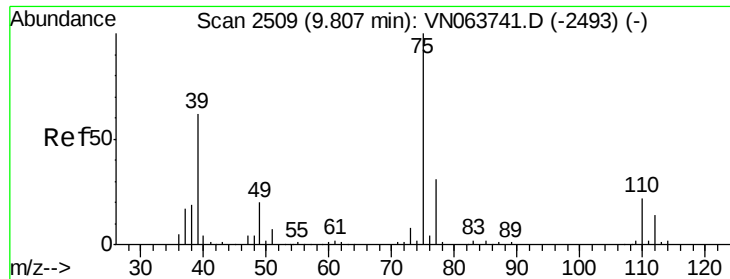
Tgt Ion: 43 Resp: 8441

Ion Ratio Lower Upper

43 100

58 34.6 28.4 42.6





#54

cis-1,3-Dichloropropene

Concen: 5.767 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#14

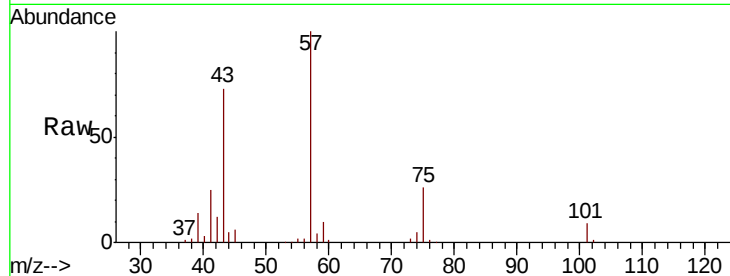
Tot Ion: 75 Resp: 29431

Ion Ratio Lower Upper

75 100

77 1.3 24.6 36.8#

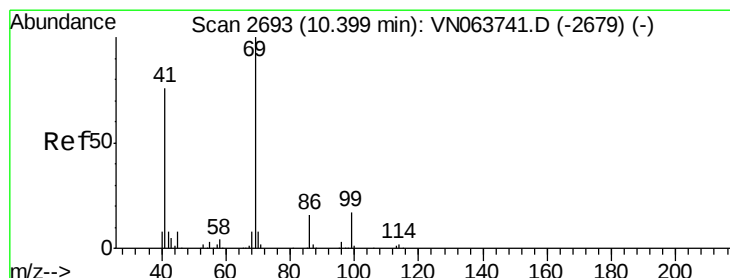
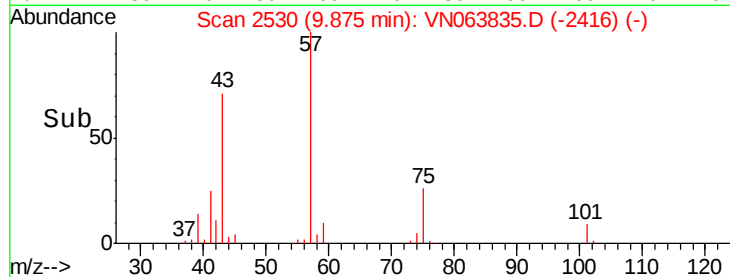
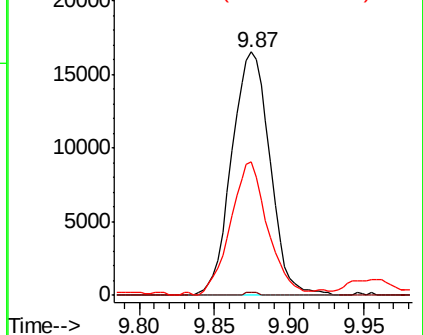
39 53.9 49.7 74.5



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



#56

Ethyl methacrylate

Concen: 0.490 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

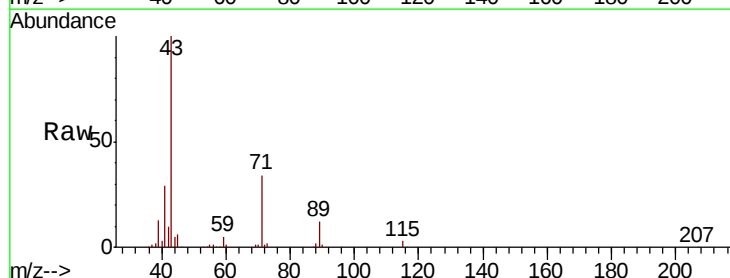
Tgt Ion: 69 Resp: 2043

Ion Ratio Lower Upper

69 100

41 4141.3 61.1 91.7#

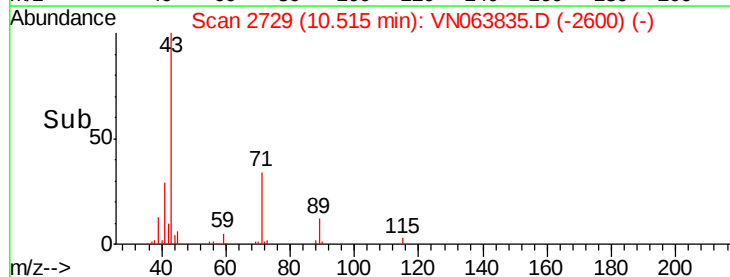
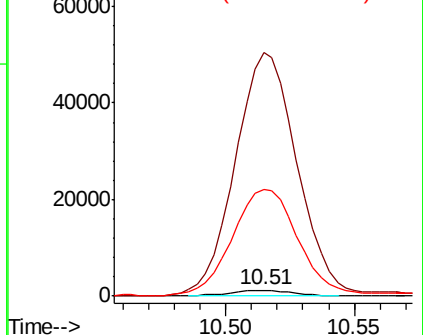
39 1951.8 42.2 63.4#

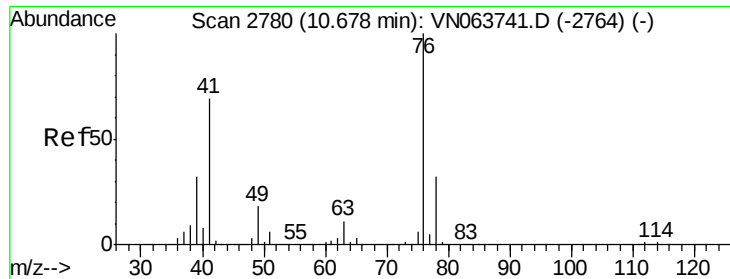


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.047 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

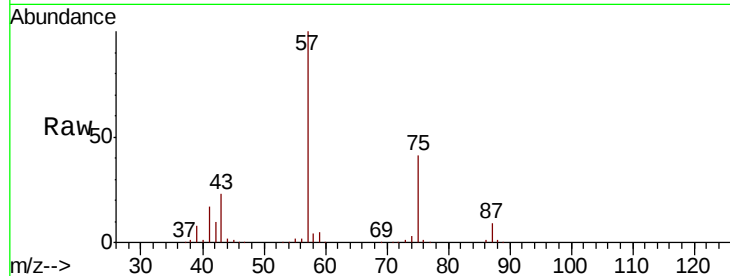
PB132030ZHE#14

Tot Ion: 76 Resp: 5208

Ion Ratio Lower Upper

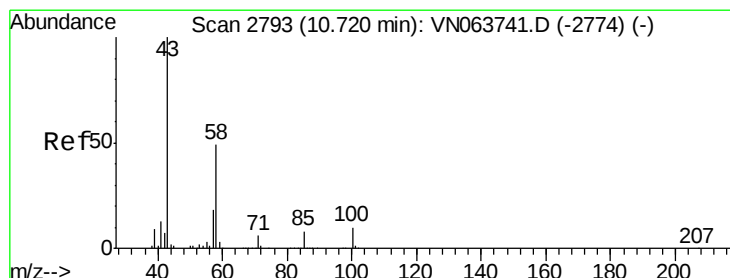
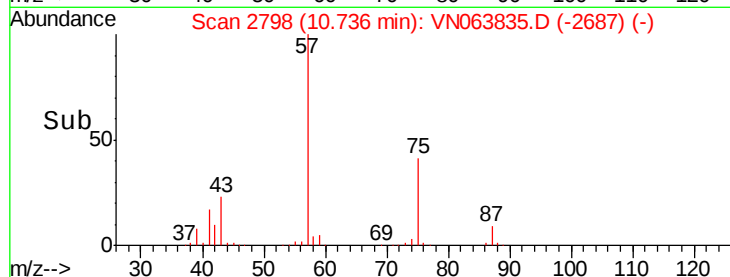
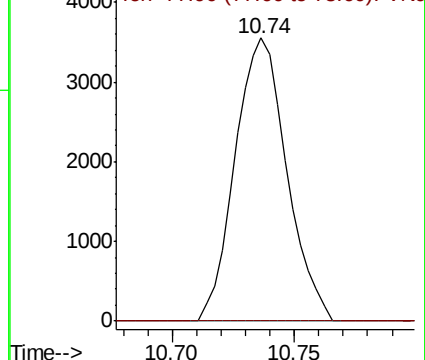
76 100

78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 30.413 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063835.D

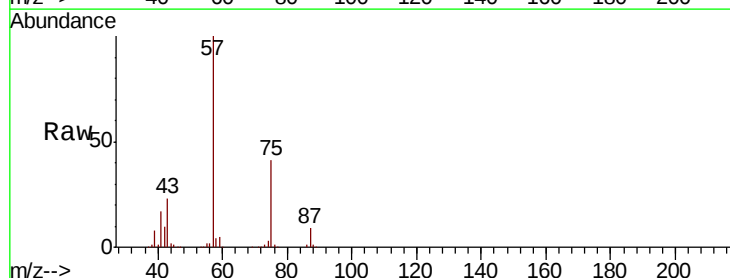
Acq: 2 Oct 2020 20:44

Tgt Ion: 43 Resp: 90180

Ion Ratio Lower Upper

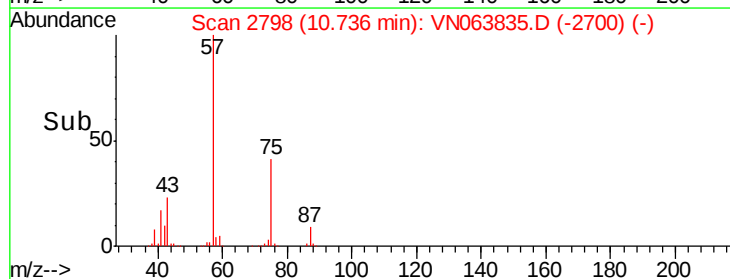
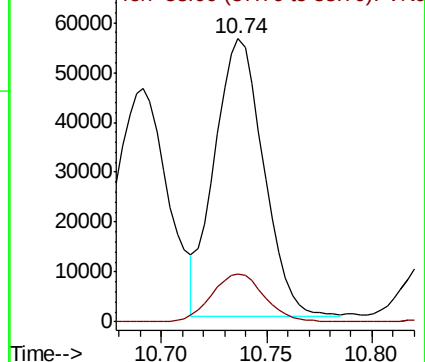
43 100

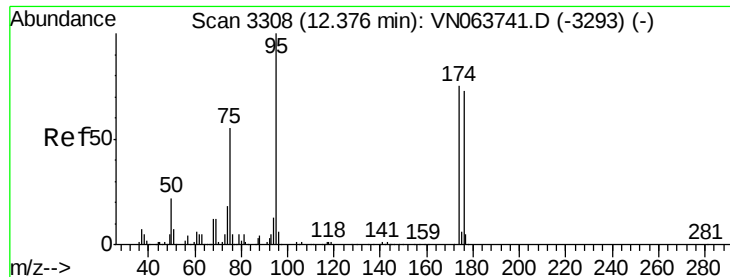
58 18.5 24.6 73.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

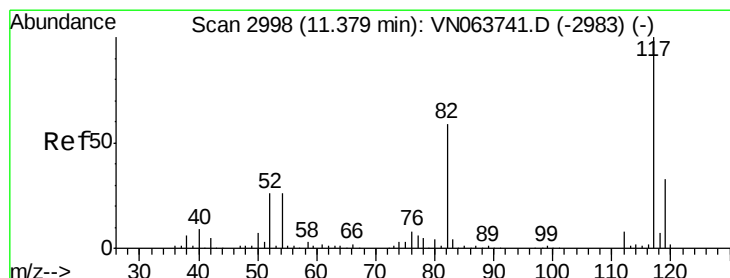
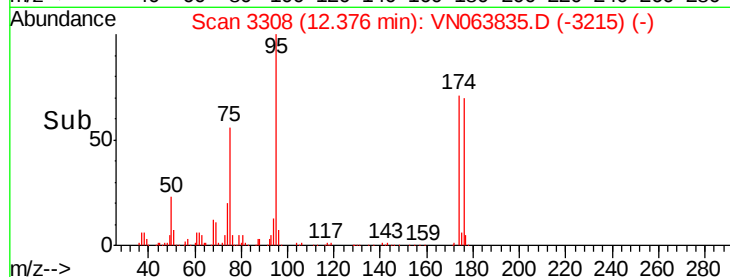
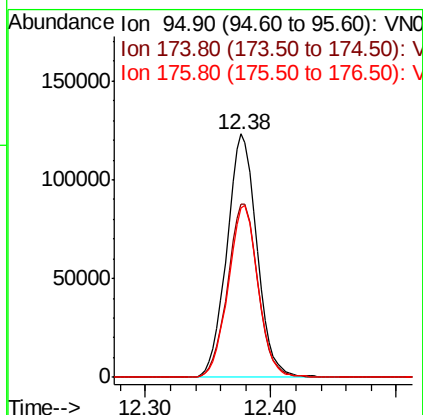
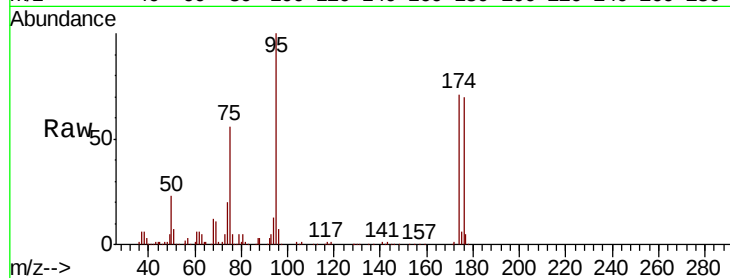




#62
4-Bromofluorobenzene
Concen: 50.506 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

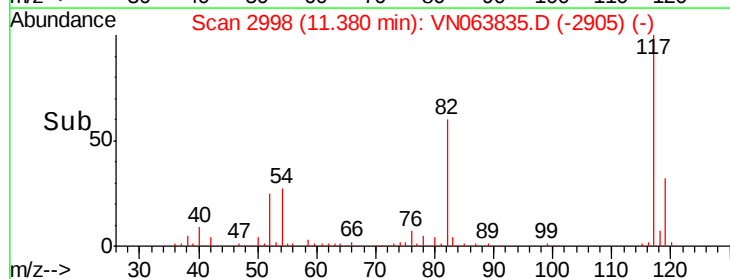
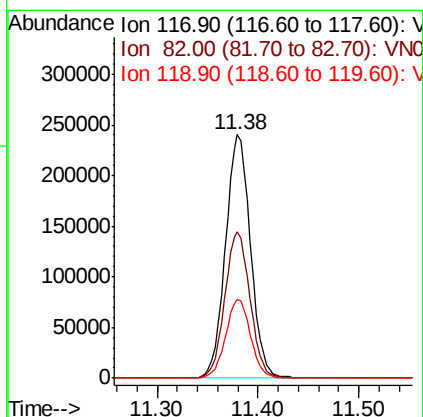
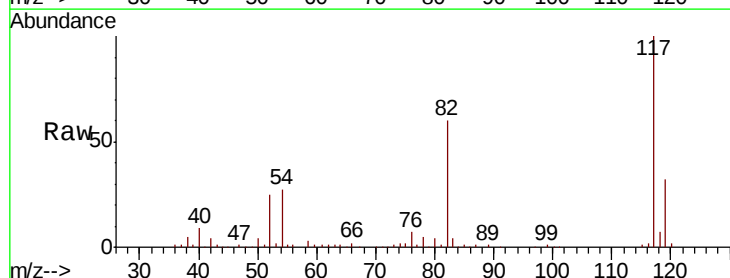
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#14

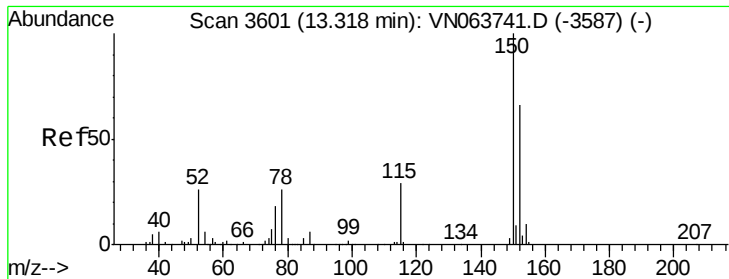
Tot Ion: 95 Resp: 204602
Ion Ratio Lower Upper
95 100
174 72.1 0.0 150.6
176 70.2 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063835.D
Acq: 2 Oct 2020 20:44

Tgt Ion: 117 Resp: 416277
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 32.5 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#14

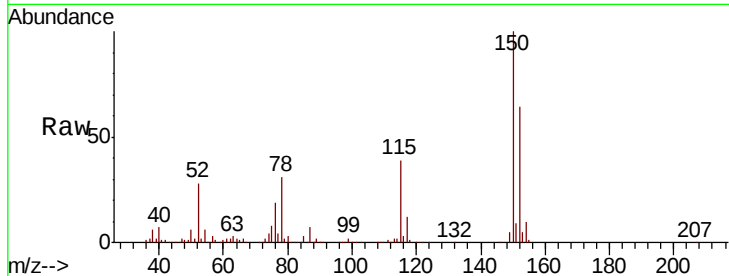
Tot Ion:152 Resp: 165094

Ion Ratio Lower Upper

152 100

115 62.9 31.3 93.8

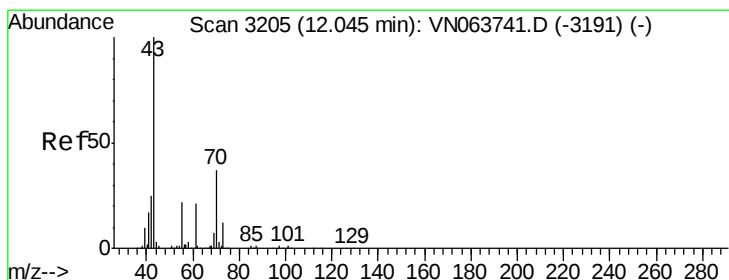
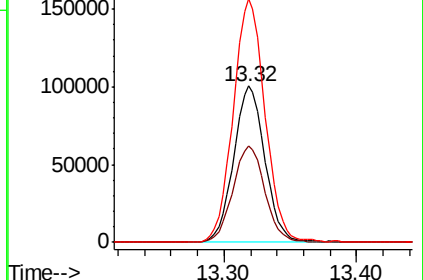
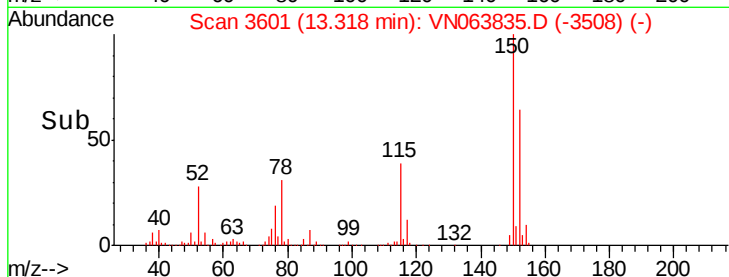
150 157.4 0.0 341.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.878 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Tgt Ion: 43 Resp: 3877

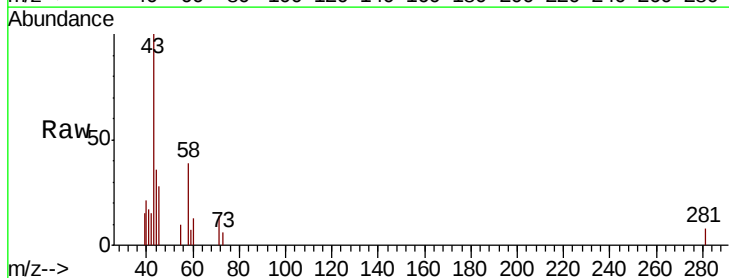
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 6.4 17.9 26.9#

61 0.0 17.0 25.4#

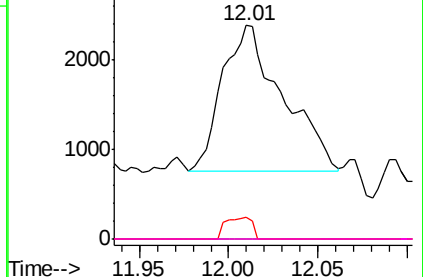
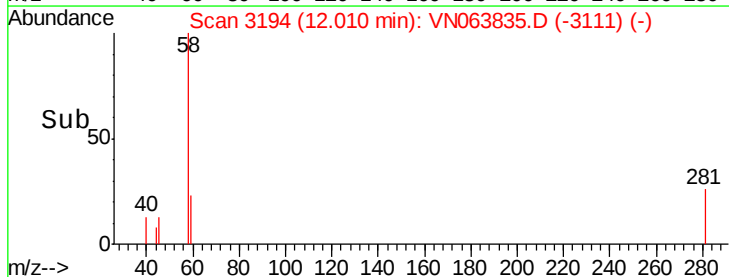


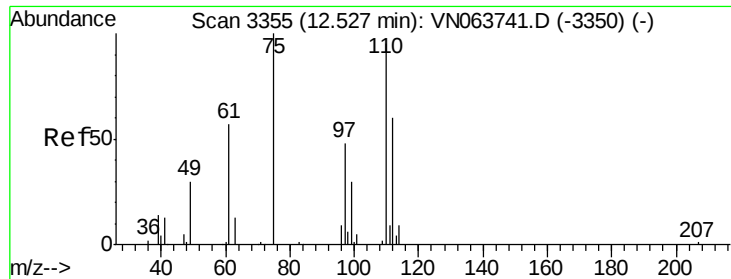
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.552 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

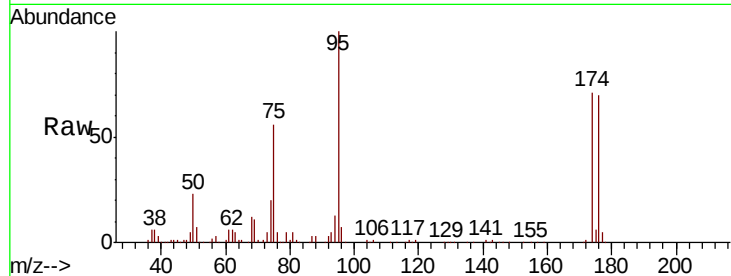
PB132030ZHE#14

Tot Ion: 75 Resp: 114828

Ion Ratio Lower Upper

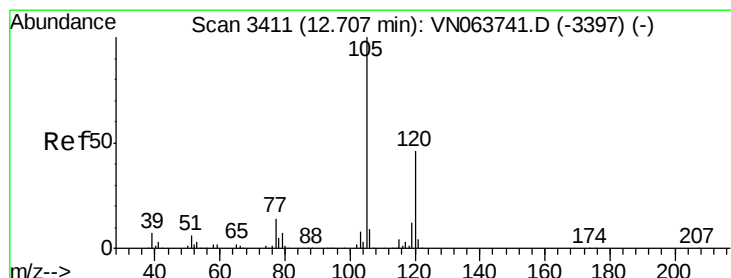
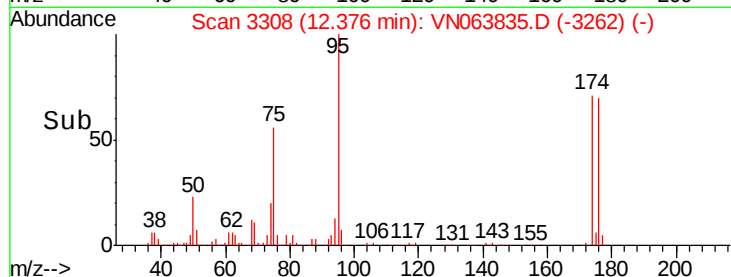
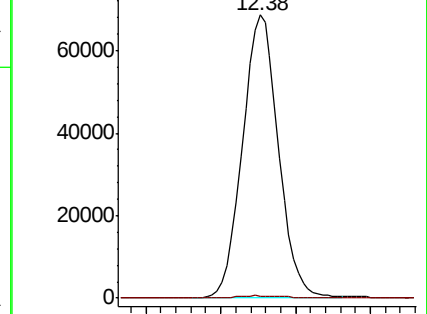
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063835.D (-3262) (-)

Ion 77.00 (76.70 to 77.70): VN063835.D (-3262) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.593 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN063835.D

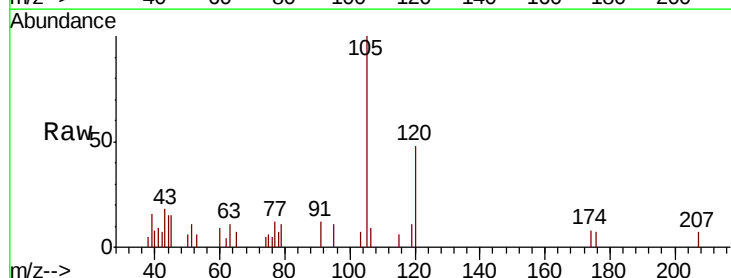
Acq: 2 Oct 2020 20:44

Tgt Ion: 105 Resp: 5991

Ion Ratio Lower Upper

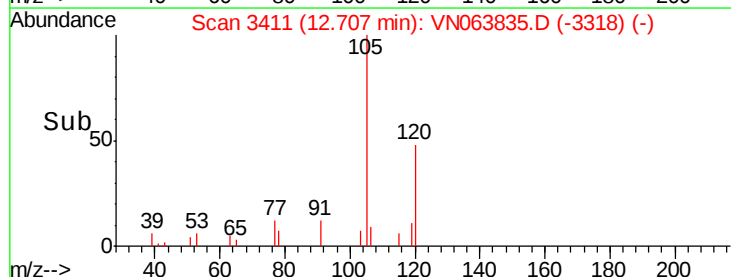
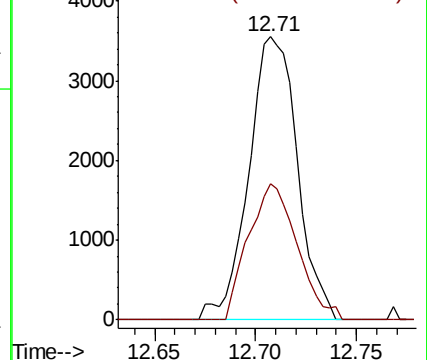
105 100

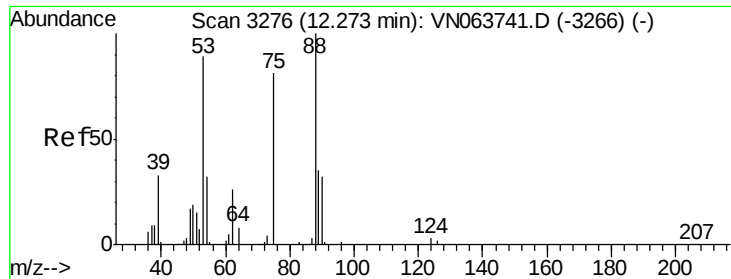
120 48.3 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VN063835.D (-3318) (-)

Ion 120.00 (119.70 to 120.70): VN063835.D (-3318) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 90.875 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063835.D

Acq: 2 Oct 2020 20:44

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#14

Tot Ion: 75 Resp: 114828

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.1 36.0 54.0#

