

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063821.D
 Acq On : 2 Oct 2020 15:09
 Operator : JC/MD
 Sample : PB132030TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030TB

Quant Time: Oct 05 04:15:29 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	217881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	403837	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	432785	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179814	50.00	ug/l	0.00

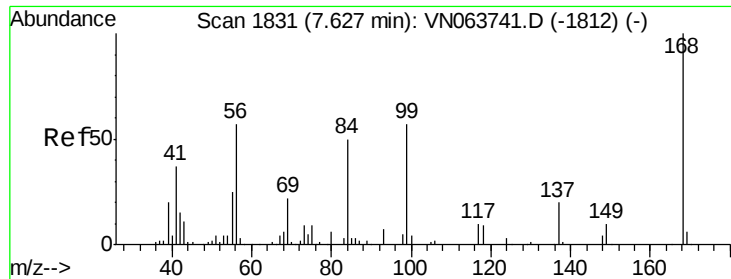
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	188184	52.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.56%	
35) Dibromofluoromethane	7.55	113	135555	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
50) Toluene-d8	10.06	98	525262	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
62) 4-Bromofluorobenzene	12.38	95	218510	54.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.44%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.73	59	2241	5.639	ug/l	97
16) Acetone	3.78	43	20025	18.072	ug/l	93
17) Carbon Disulfide	4.03	76	338	0.757	ug/l #	76
18) Methyl Acetate	4.28	43	1926	0.669	ug/l #	61
20) Methylene Chloride	4.51	84	19455	7.749	ug/l	96
25) 2-Butanone	6.79	43	15644	9.958	ug/l	98
29) Tetrahydrofuran	7.17	42	987	0.937	ug/l #	64
31) Cyclohexane	7.63	56	6366	1.523	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	19710	4.818	ug/l #	53
37) Ethyl Acetate	6.79	43	15644	3.849	ug/l #	70
38) Carbon Tetrachloride	7.63	117	24584	5.359	ug/l #	14
43) Isopropyl Acetate	8.13	43	69477	10.363	ug/l	96
45) 1,2-Dichloropropane	9.23	63	827	0.262	ug/l #	44
48) Methyl methacrylate	9.15	41	5889	1.778	ug/l #	12
49) 1,4-Dioxane	9.17	88	30	0.637	ug/l #	20
51) 4-Methyl-2-Pentanone	9.96	43	8583	2.181	ug/l #	85
54) cis-1,3-Dichloropropene	9.87	75	25512	5.072	ug/l #	65
56) Ethyl methacrylate	10.51	69	1725	0.420	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4776	0.974	ug/l #	43
59) 2-Hexanone	10.74	43	77475	26.507	ug/l #	61
74) N-amyl acetate	12.00	43	6259	3.197	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	121716	30.707	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3164	0.288	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	121716	88.440	ug/l #	6
95) Naphthalene	15.11	128	1280	2.051	ug/l #	93

(#) = 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: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

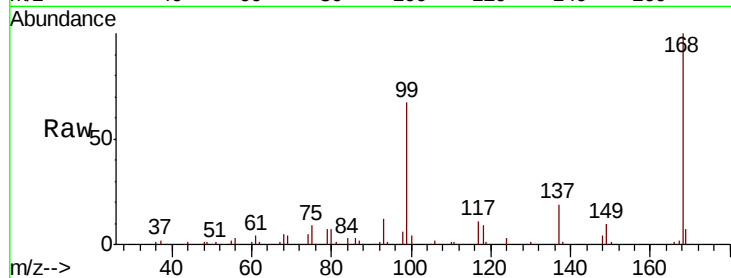
PB132030TB

Tot Ion:168 Resp: 217881

Ion Ratio Lower Upper

168 100

99 67.0 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

100000

80000

60000

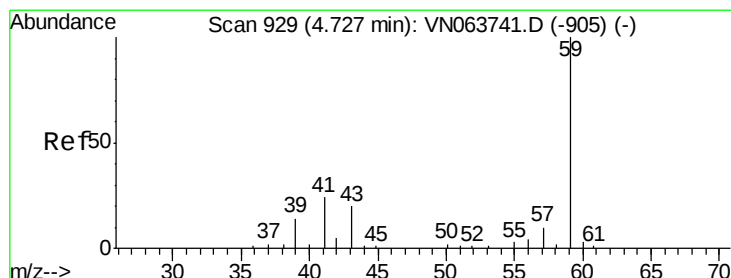
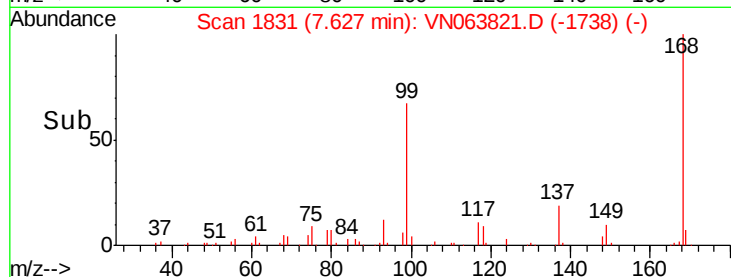
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 5.639 ug/l

RT: 4.73 min Scan# 930

Delta R.T. 0.00 min

Lab File: VN063821.D

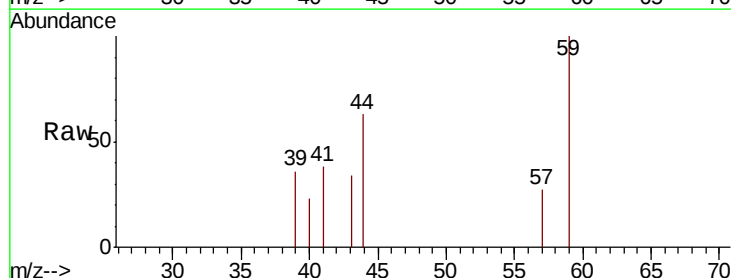
Acq: 2 Oct 2020 15:09

Tgt Ion: 59 Resp: 2241

Ion Ratio Lower Upper

59 100

57 9.7 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

800

600

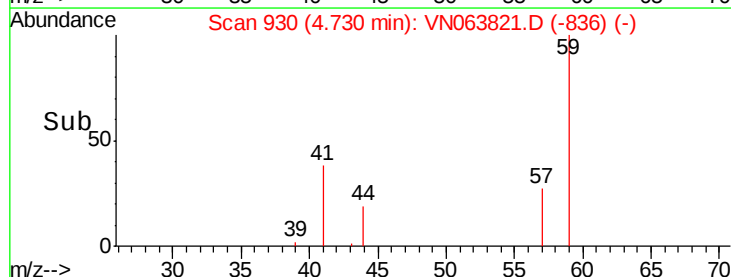
400

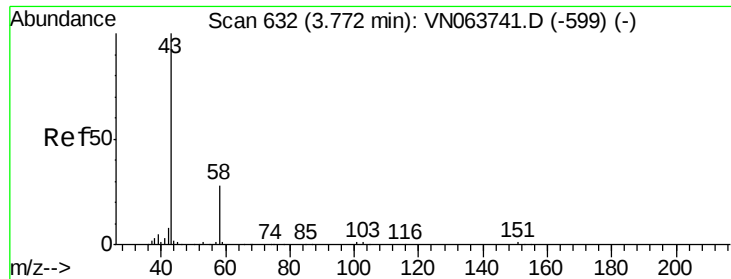
200

0

Time-->

4.65 4.70 4.75 4.80





#16

Acetone

Concen: 18.072 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

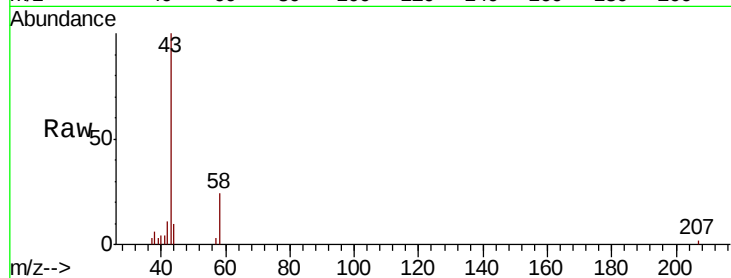
PB132030TB

Tot Ion: 43 Resp: 20025

Ion Ratio Lower Upper

43 100

58 24.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

8000

6000

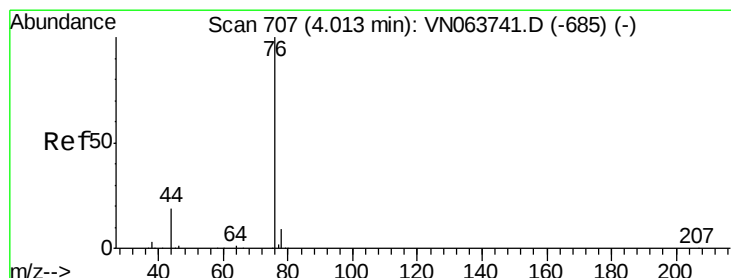
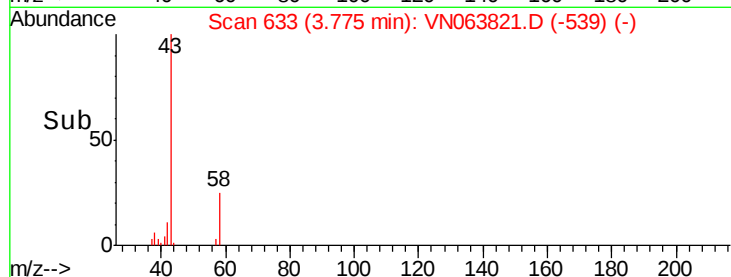
4000

2000

0

Time-->

3.70 3.80 3.90



#17

Carbon Disulfide

Concen: 0.757 ug/l

RT: 4.03 min Scan# 712

Delta R.T. 0.02 min

Lab File: VN063821.D

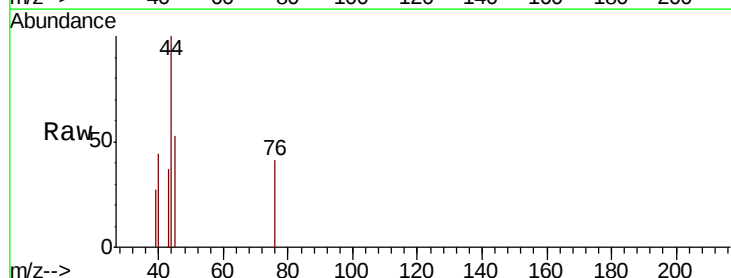
Acq: 2 Oct 2020 15:09

Tgt Ion: 76 Resp: 338

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

250

200

150

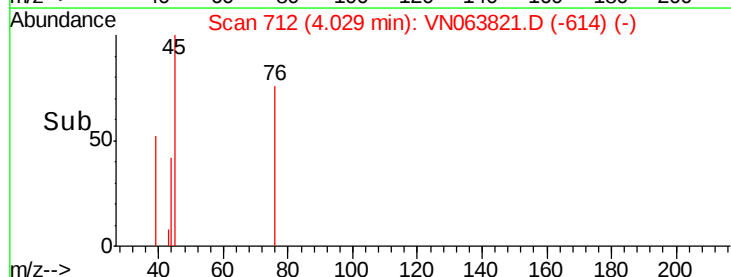
100

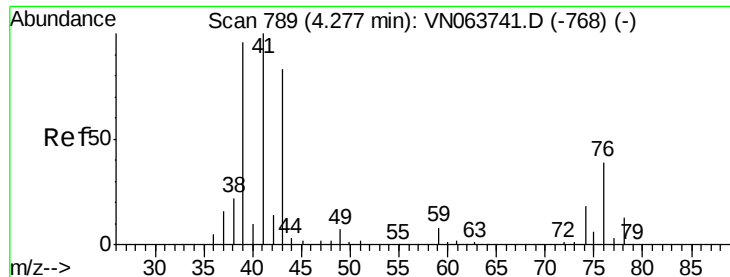
50

0

Time-->

4.00 4.02 4.04

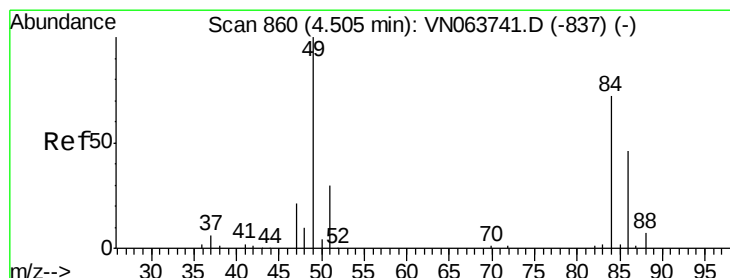
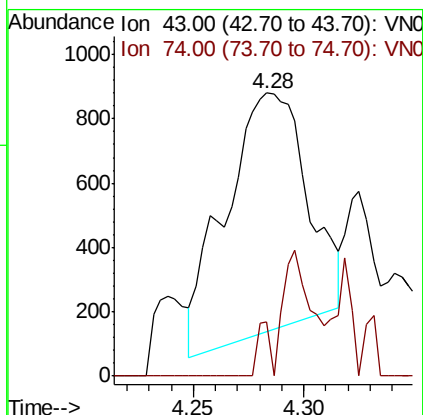
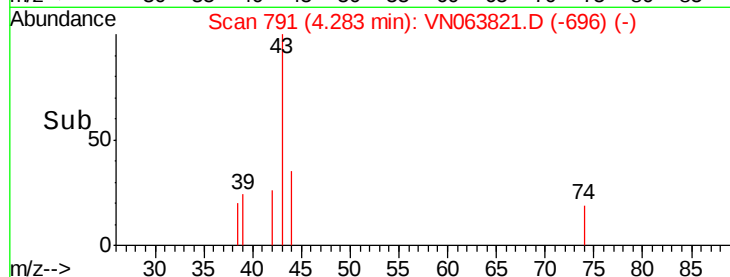
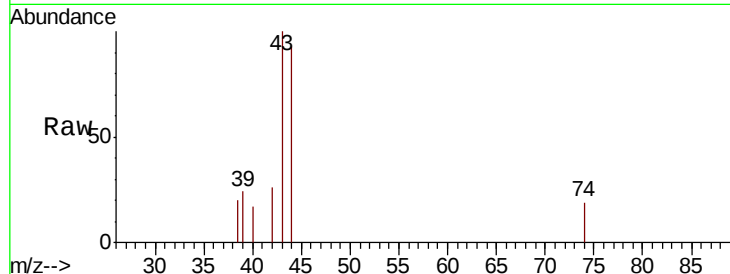




#18
Methyl Acetate
Concen: 0.669 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

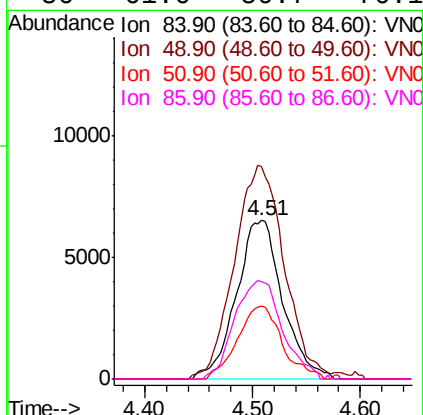
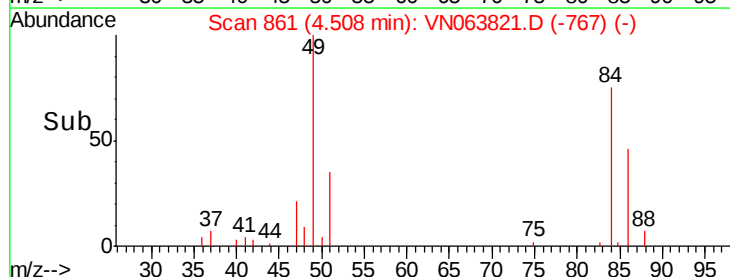
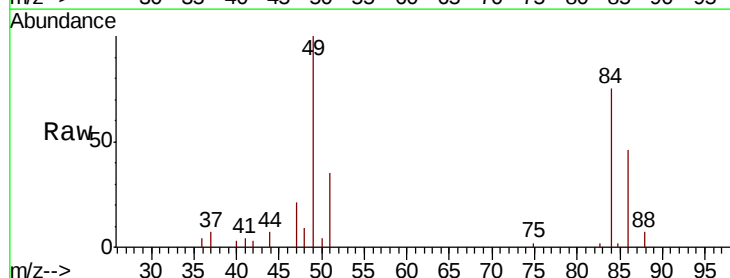
Instrument :
MSVOA_N
ClientSampled :
PB132030TB

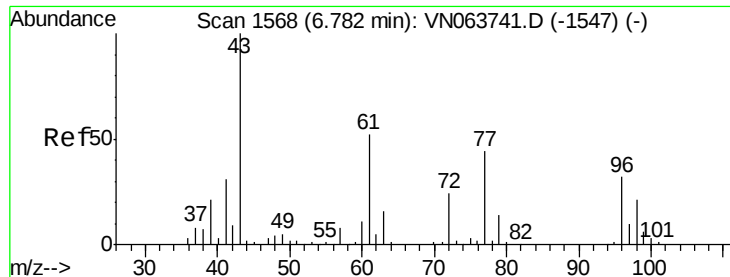
Tot Ion: 43 Resp: 1926
Ion Ratio Lower Upper
43 100
74 3.4 17.4 26.2#



#20
Methylene Chloride
Concen: 7.749 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

Tgt Ion: 84 Resp: 19455
Ion Ratio Lower Upper
84 100
49 134.0 110.4 165.6
51 46.5 33.3 49.9
86 61.6 50.7 76.1

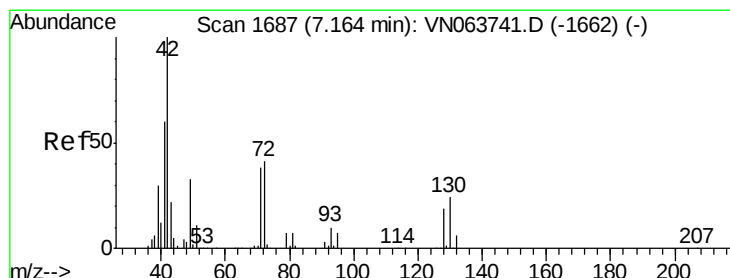
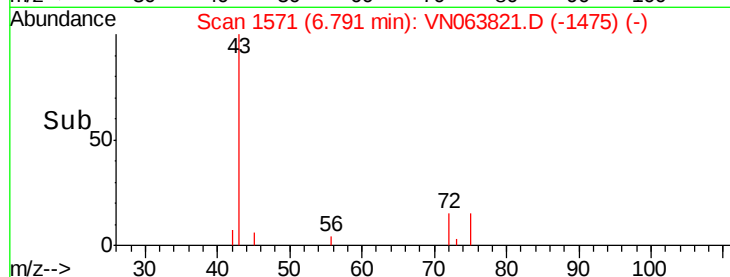
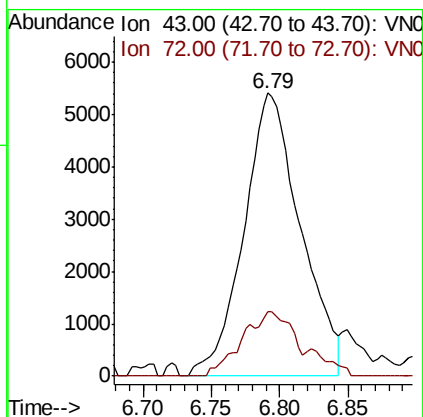
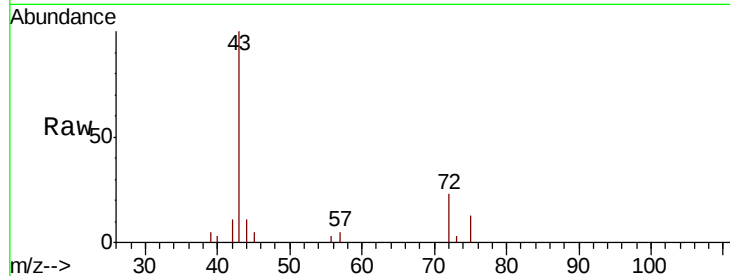




#25
2-Butanone
Concen: 9.958 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

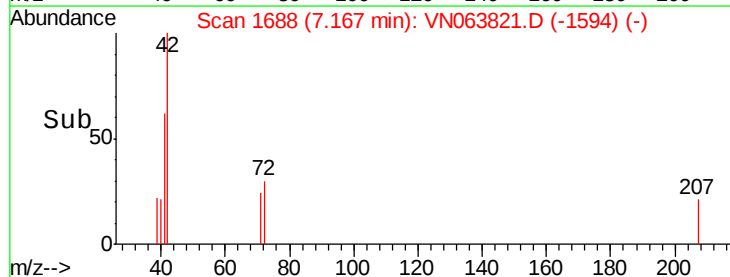
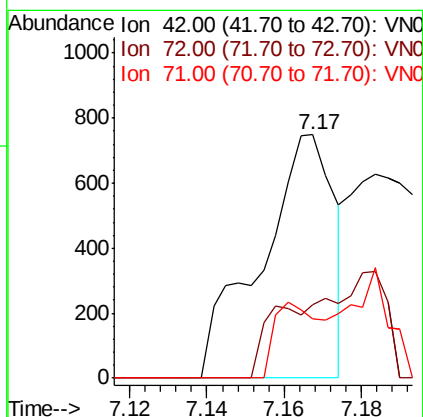
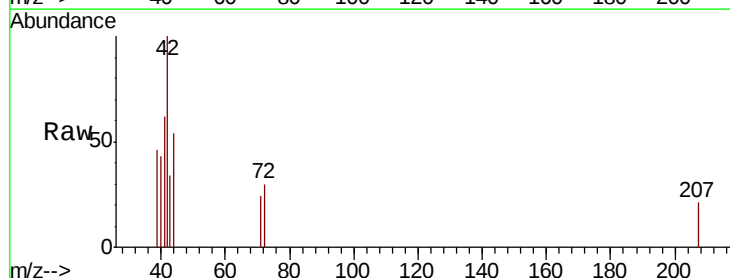
Instrument :
MSVOA_N
ClientSampled :
PB132030TB

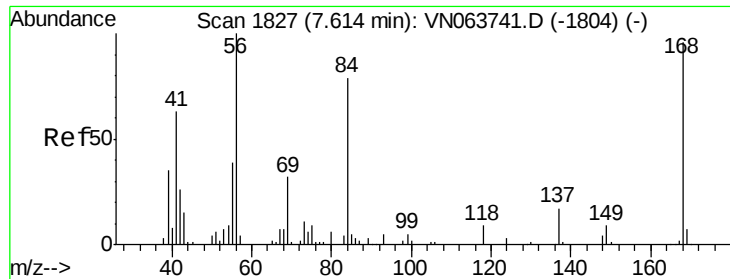
Tot Ion: 43 Resp: 15644
Ion Ratio Lower Upper
43 100
72 23.0 19.3 28.9



#29
Tetrahydrofuran
Concen: 0.937 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

Tgt Ion: 42 Resp: 987
Ion Ratio Lower Upper
42 100
72 15.7 32.8 49.2#
71 19.5 30.6 45.8#

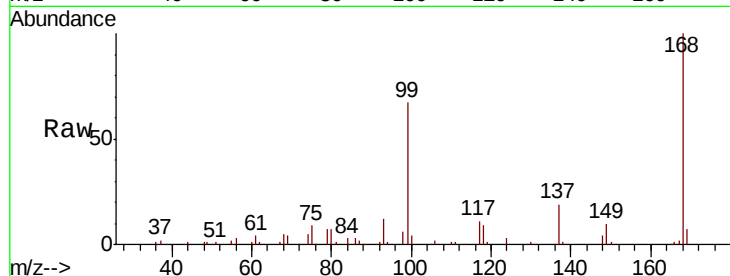




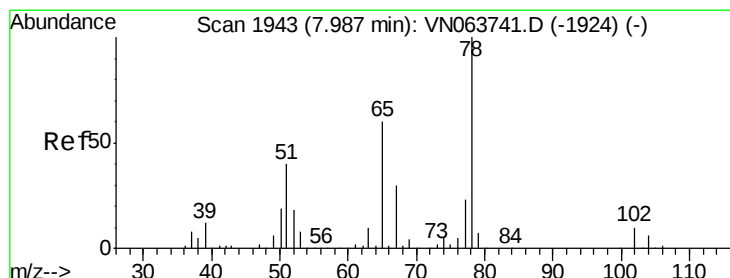
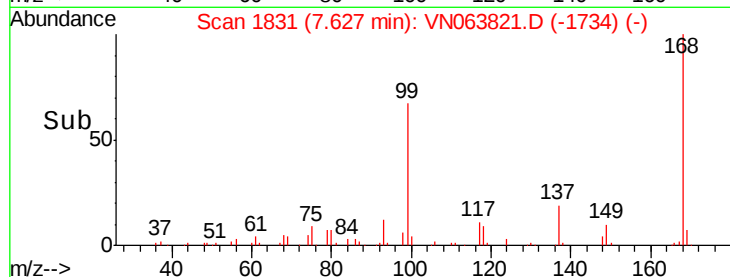
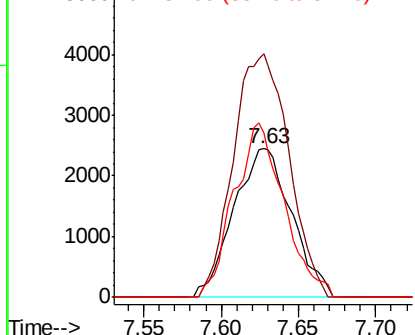
#31
Cyclohexane
Concen: 1.523 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

Instrument :
MSVOA_N
ClientSampleId :
PB132030TB

Tot Ion: 56 Resp: 6366
Ion Ratio Lower Upper
56 100
69 163.6 25.4 38.2#
84 110.2 63.3 94.9#

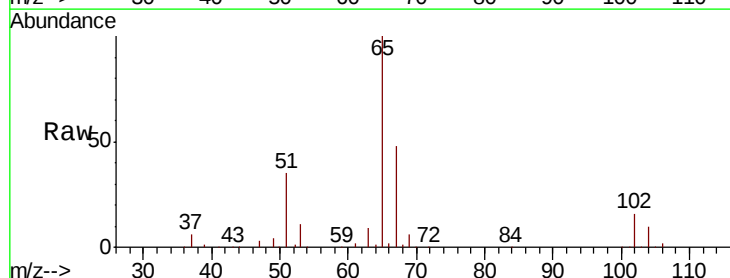


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

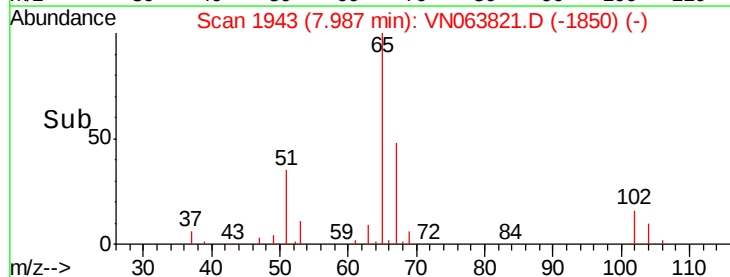
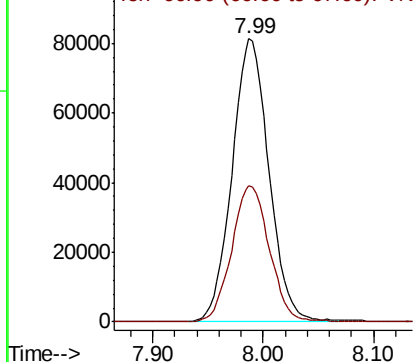


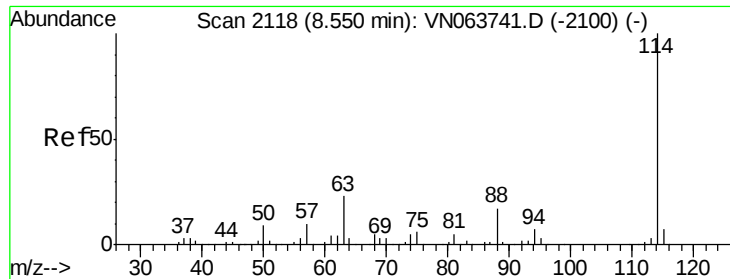
#33
1,2-Dichloroethane-d4
Concen: 52.280 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

Tgt Ion: 65 Resp: 188184
Ion Ratio Lower Upper
65 100
67 49.3 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: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

PB132030TB

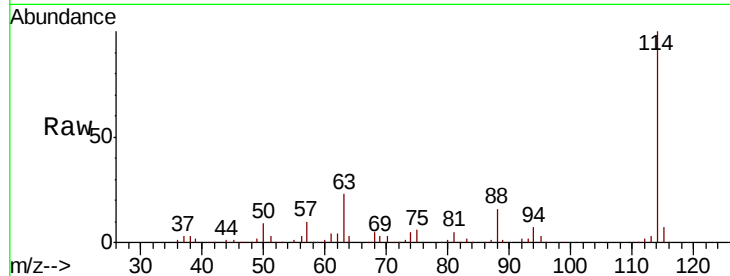
Tot Ion:114 Resp: 403837

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.0

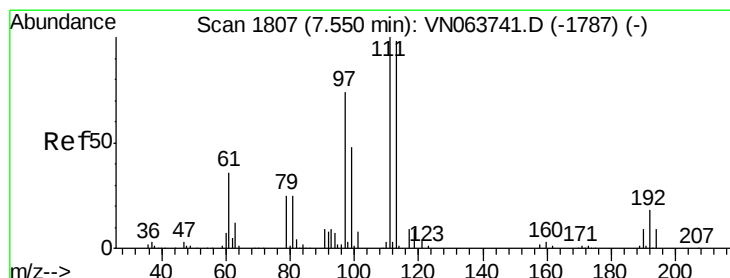
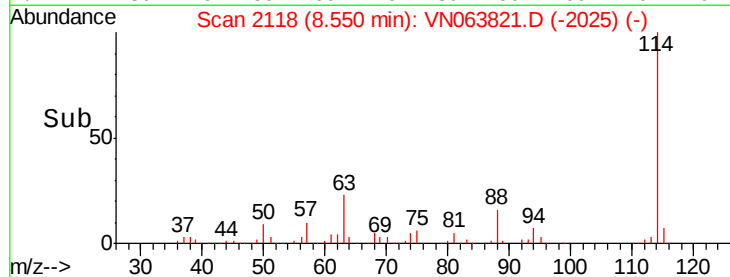
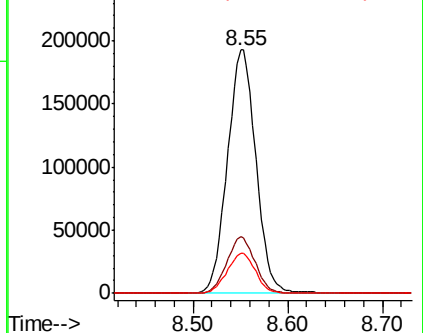
88 16.4 0.0 34.0



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: 48.376 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

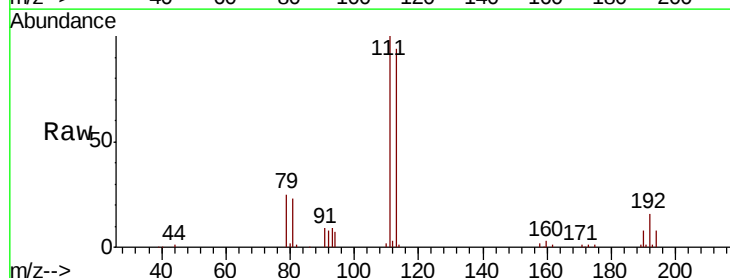
Tgt Ion:113 Resp: 135555

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

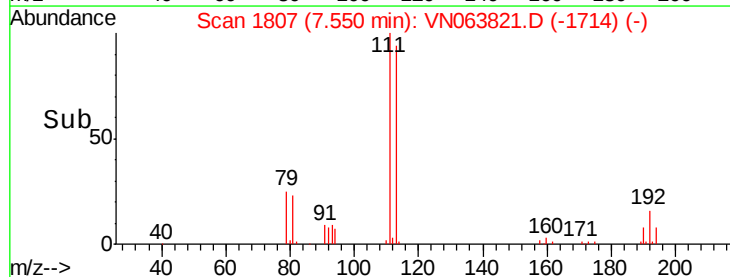
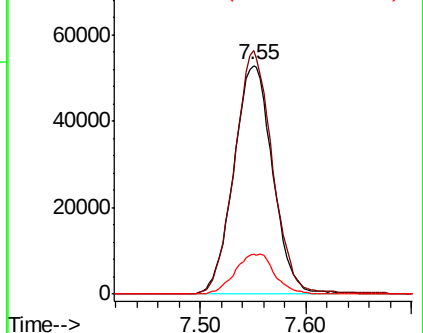
192 17.9 14.2 21.2

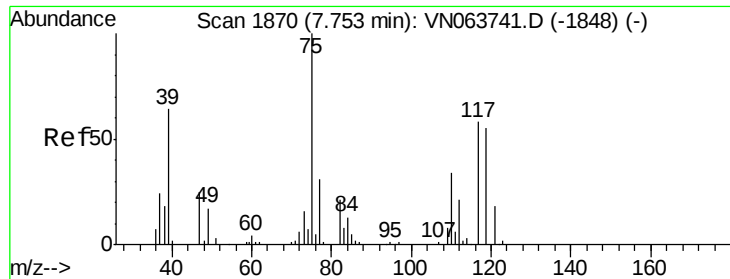


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

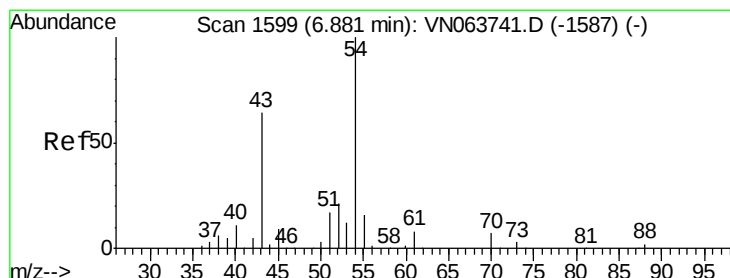
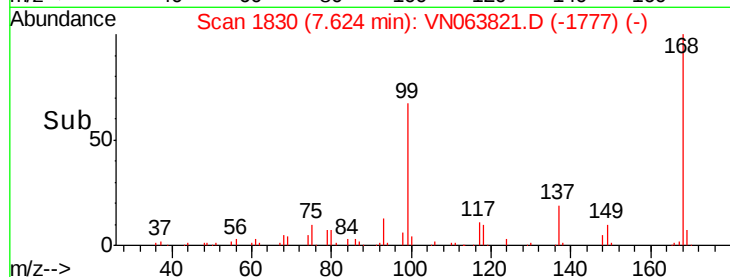
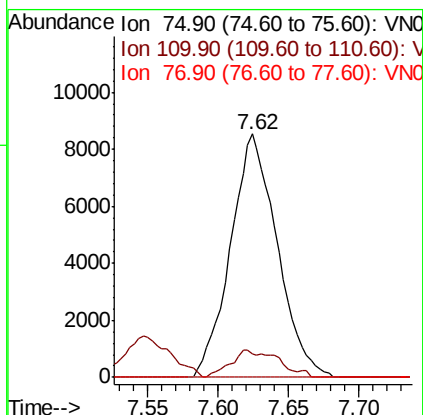
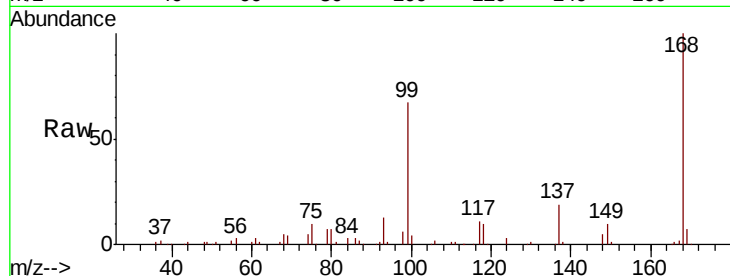




#36
 1,1-Dichloropropene
 Concen: 4.818 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063821.D
 Acq: 2 Oct 2020 15:09

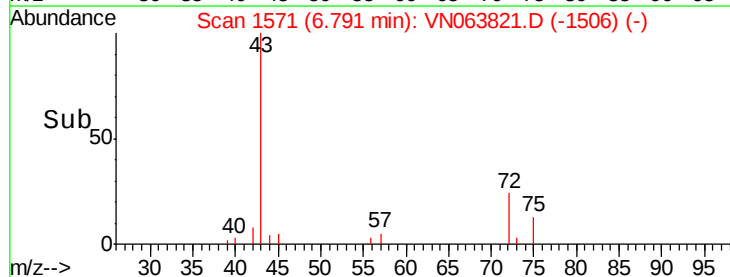
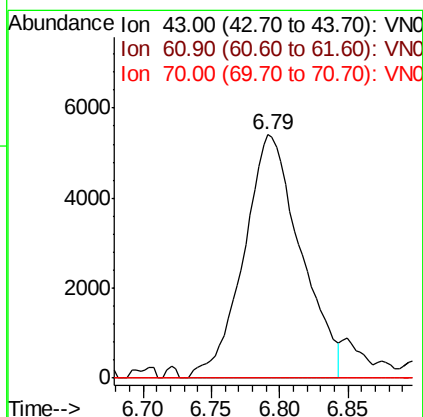
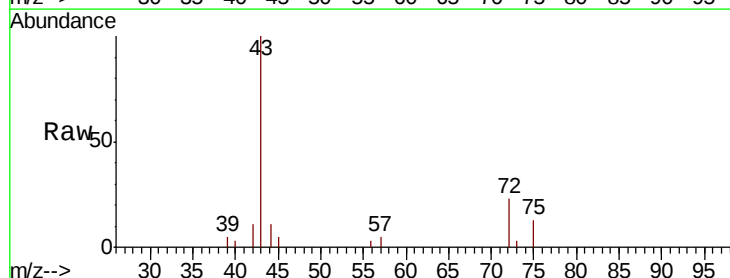
Instrument :
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 PB132030TB

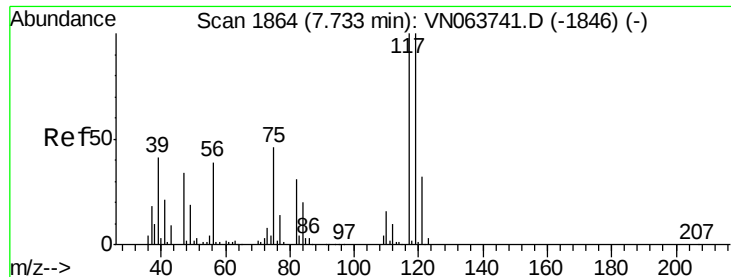
Tot Ion: 75 Resp: 19710
 Ion Ratio Lower Upper
 75 100
 110 11.5 16.9 50.6#
 77 0.0 24.5 36.7#



#37
 Ethyl Acetate
 Concen: 3.849 ug/l
 RT: 6.79 min Scan# 1571
 Delta R.T. -0.09 min
 Lab File: VN063821.D
 Acq: 2 Oct 2020 15:09

Tgt Ion: 43 Resp: 15644
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.4 15.6#
 70 0.0 7.3 10.9#





#38

Carbon Tetrachloride

Concen: 5.359 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampled :

PB132030TB

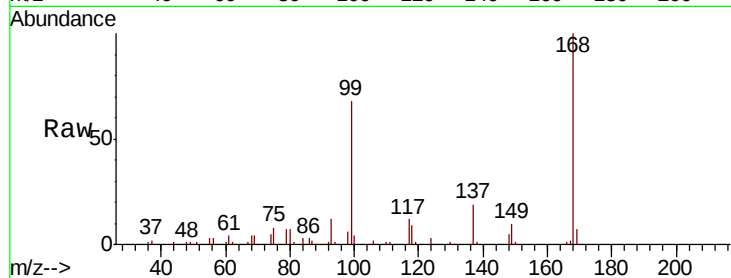
Tot Ion:117 Resp: 24584

Ion Ratio Lower Upper

117 100

119 4.3 80.1 120.1#

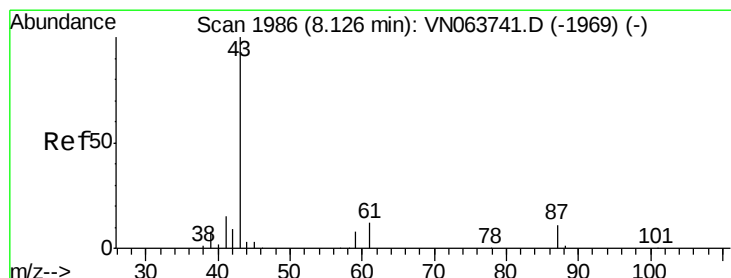
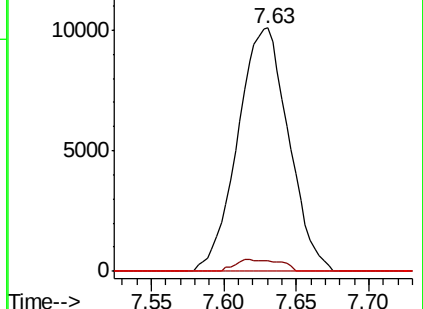
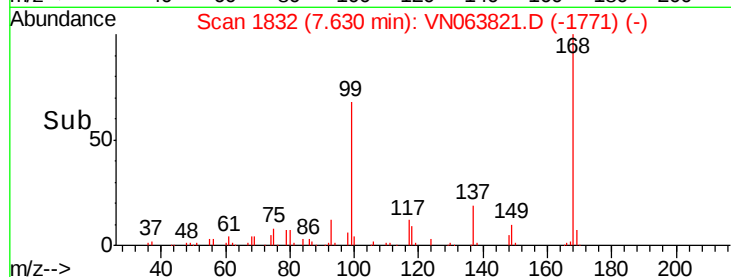
121 0.0 25.7 38.5#



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: 10.363 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

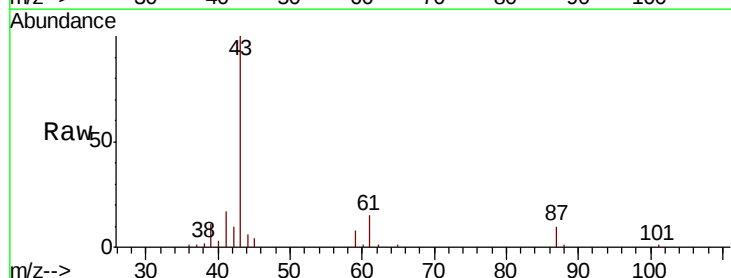
Tgt Ion: 43 Resp: 69477

Ion Ratio Lower Upper

43 100

61 15.9 14.2 21.4

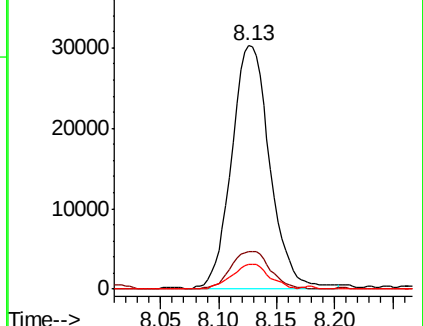
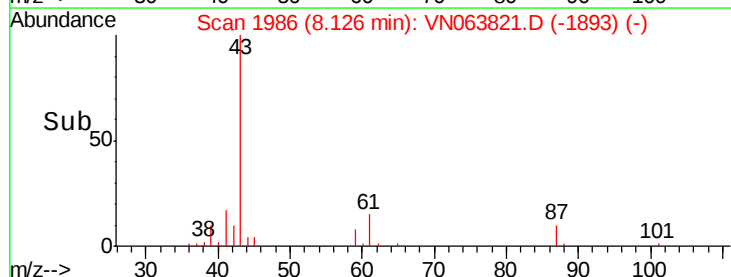
87 10.2 9.0 13.6

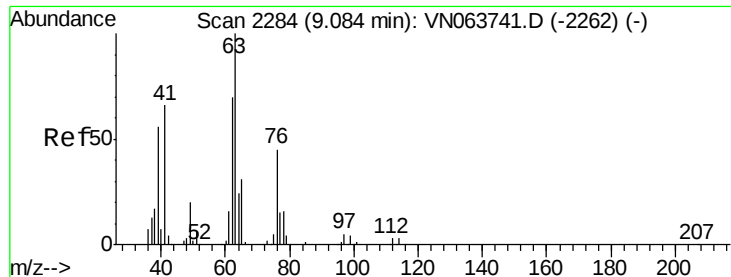


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.262 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

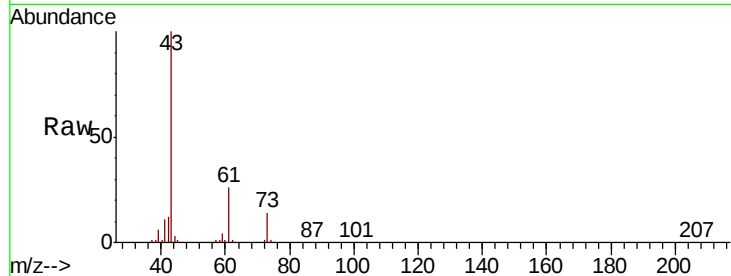
PB132030TB

Tot Ion: 63 Resp: 827

Ion Ratio Lower Upper

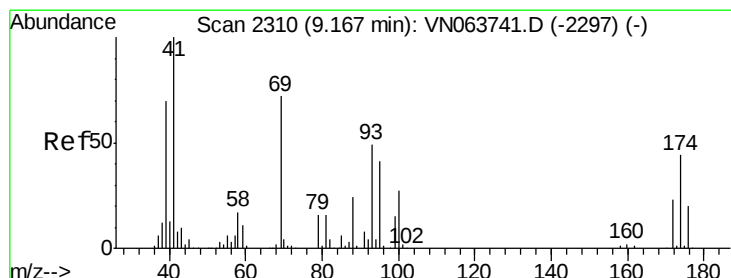
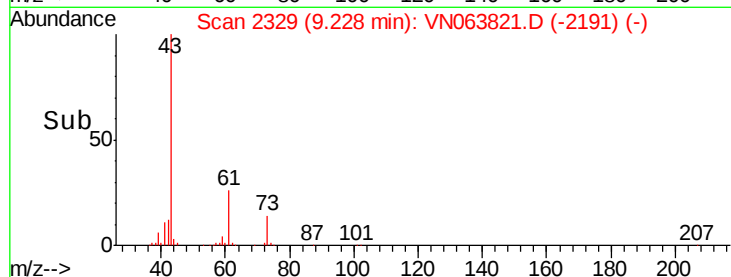
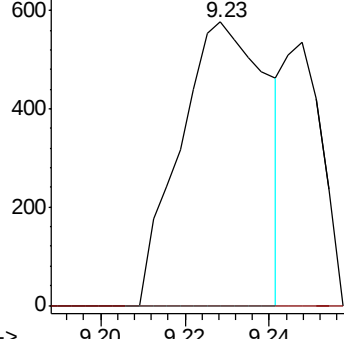
63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.778 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

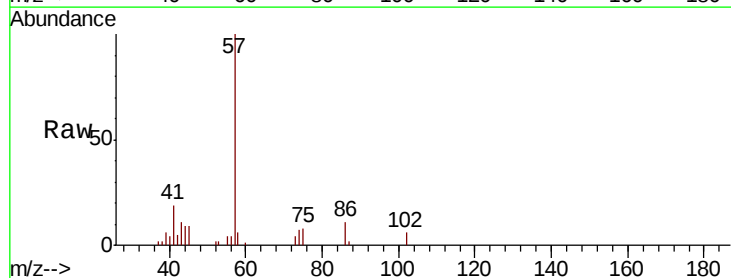
Tgt Ion: 41 Resp: 5889

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

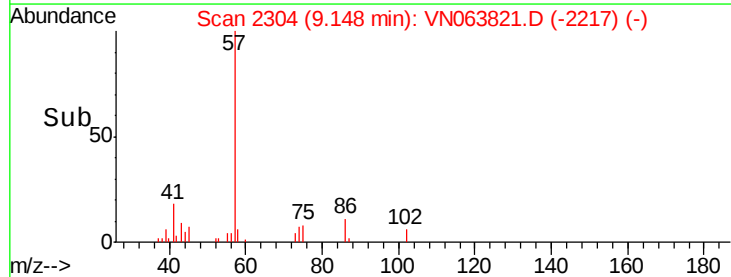
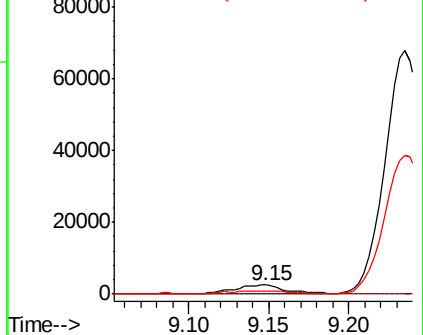
39 0.0 57.5 86.3#

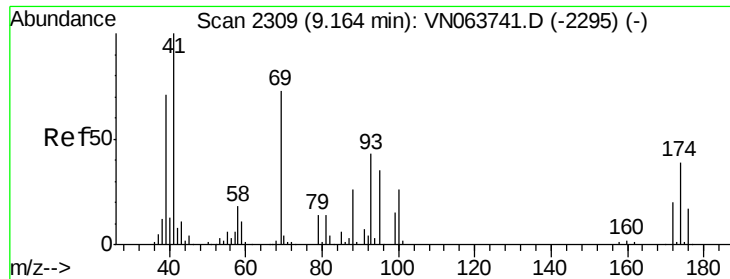


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

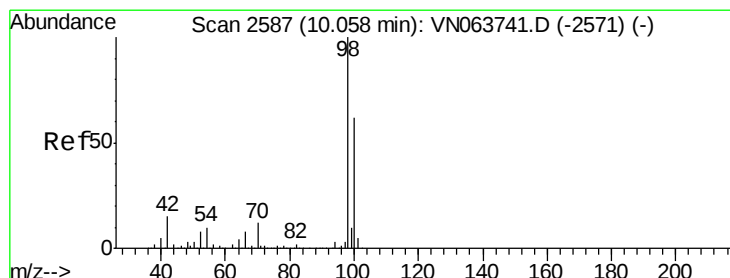
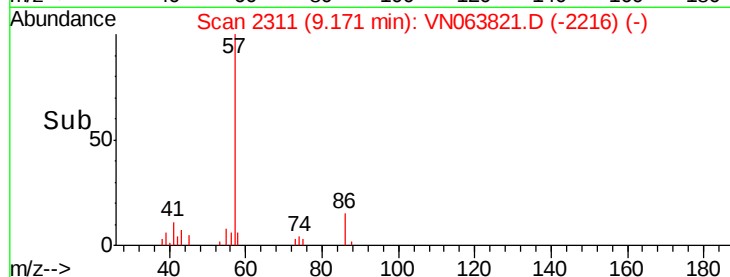
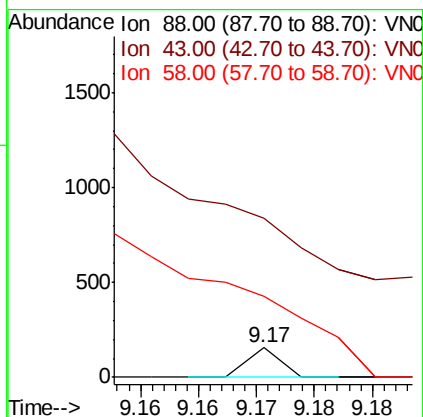
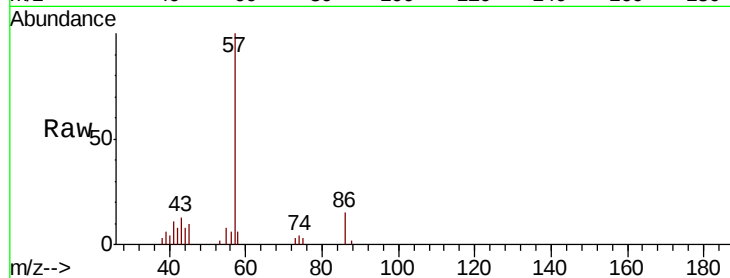




#49
1,4-Dioxane
Concen: 0.637 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

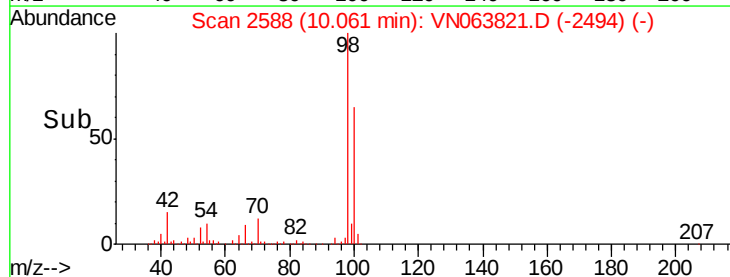
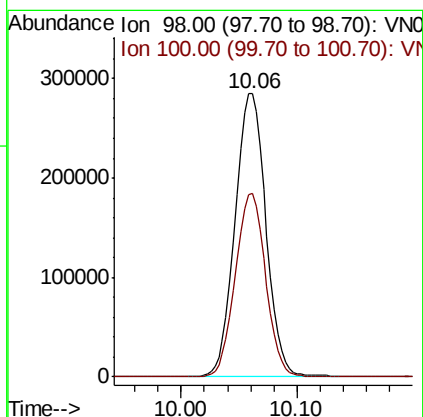
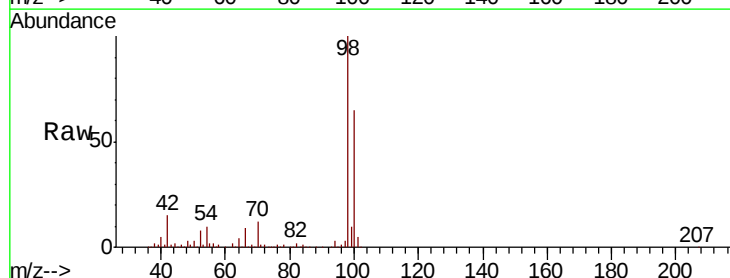
Instrument :
MSVOA_N
ClientSampleId :
PB132030TB

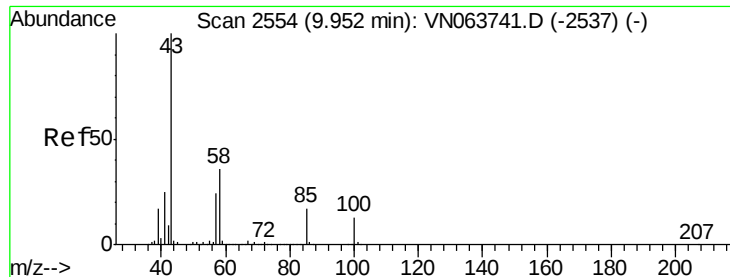
Tot Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 33.1 49.7#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 49.448 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

Tgt Ion: 98 Resp: 525262
Ion Ratio Lower Upper
98 100
100 64.0 49.8 74.6

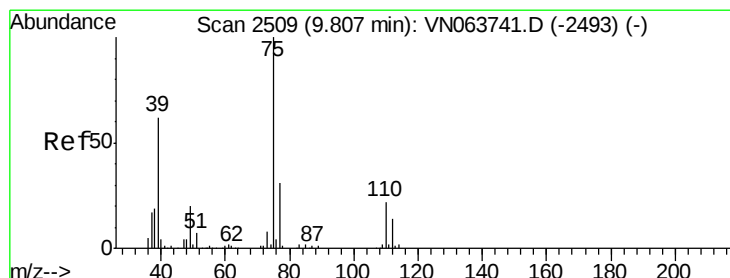
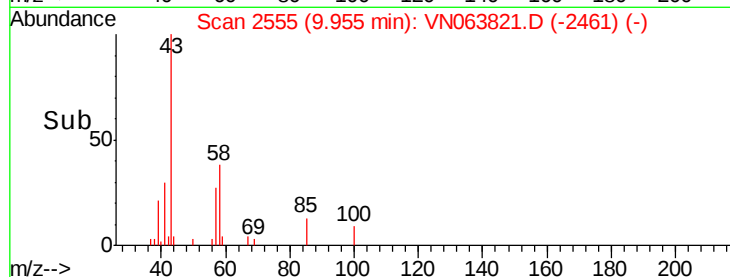
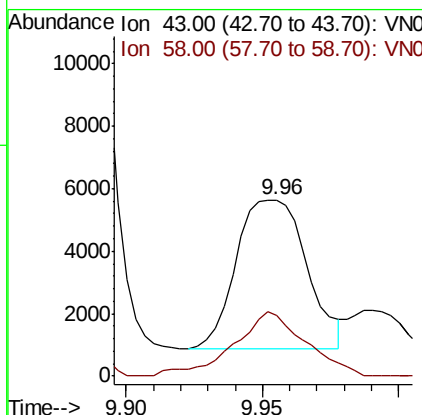
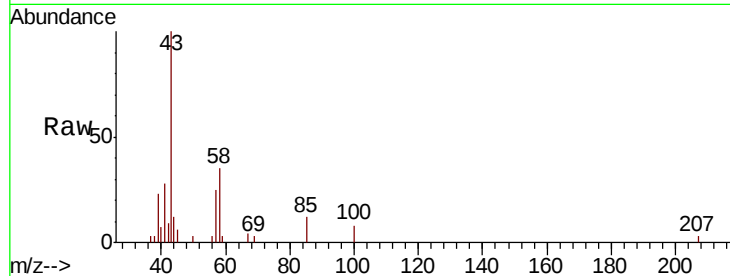




#51
 4-Methyl-2-Pentanone
 Concen: 2.181 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN063821.D
 Acq: 2 Oct 2020 15:09

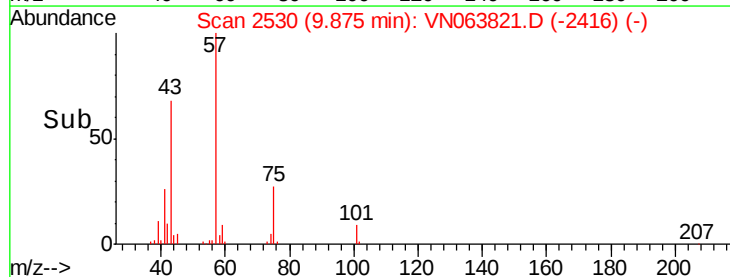
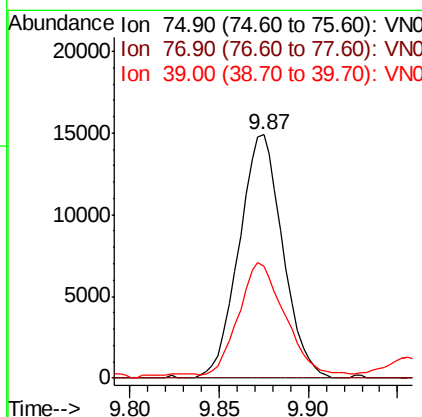
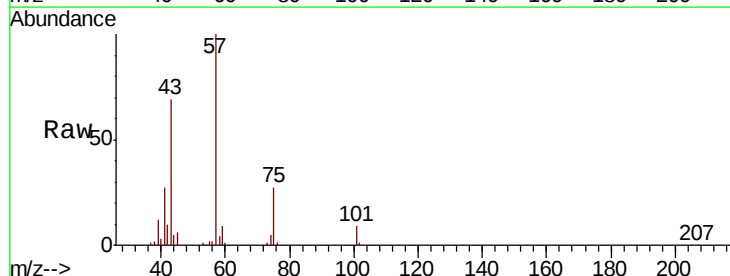
Instrument :
 MSVOA_N
 ClientSampleID :
 PB132030TB

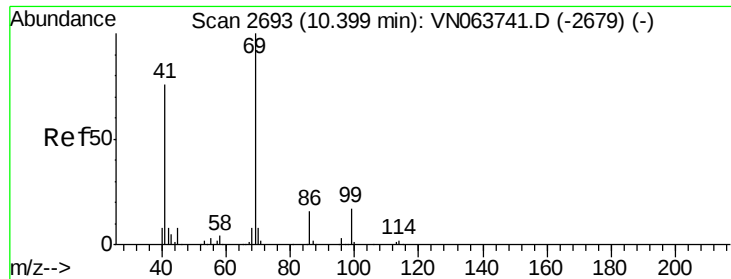
Tot Ion: 43 Resp: 8583
 Ion Ratio Lower Upper
 43 100
 58 44.0 28.4 42.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.072 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063821.D
 Acq: 2 Oct 2020 15:09

Tgt Ion: 75 Resp: 25512
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 43.7 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.420 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

PB132030TB

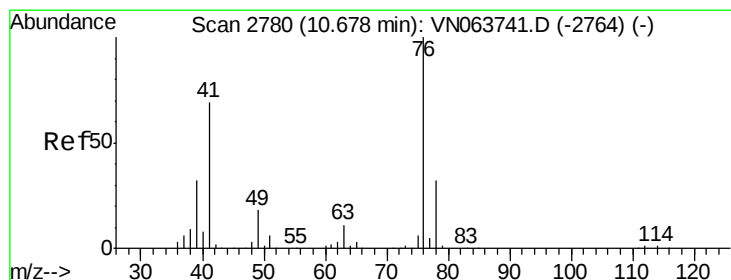
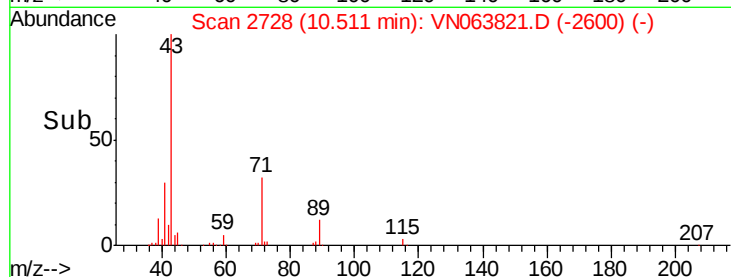
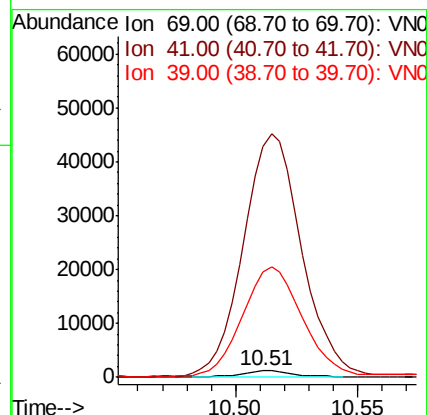
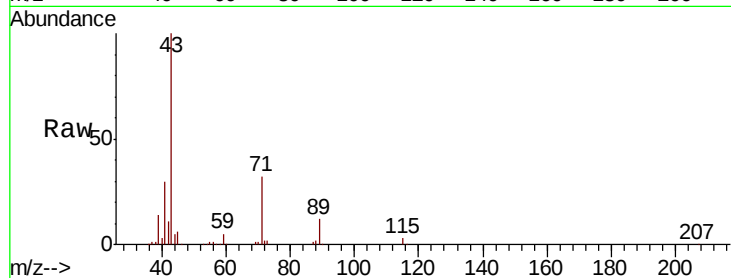
Tot Ion: 69 Resp: 1725

Ion Ratio Lower Upper

69 100

41 4386.9 61.1 91.7#

39 2005.1 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 0.974 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063821.D

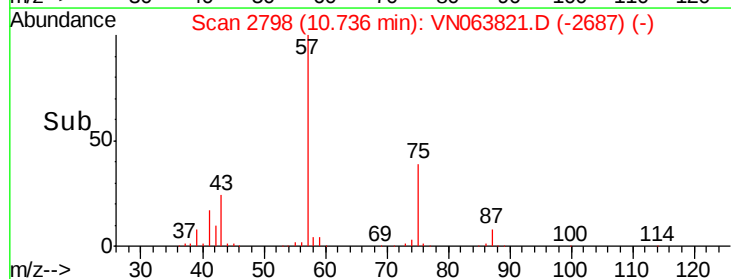
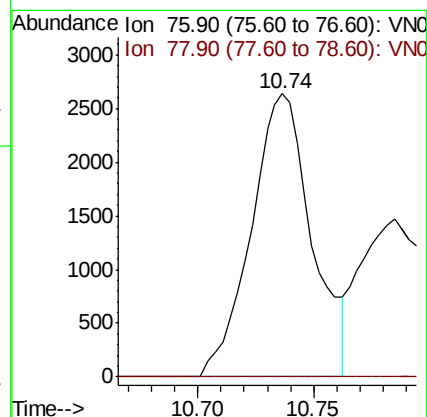
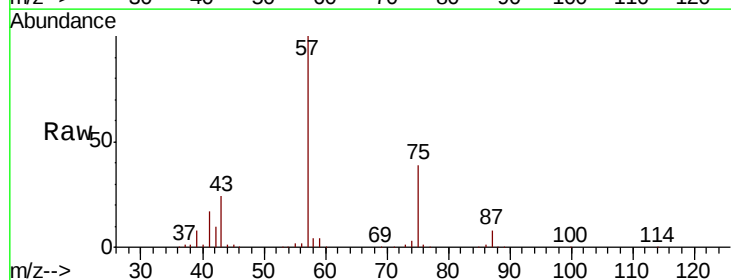
Acq: 2 Oct 2020 15:09

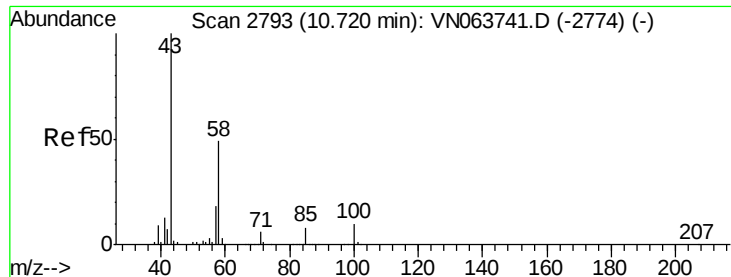
Tgt Ion: 76 Resp: 4776

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 26.507 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

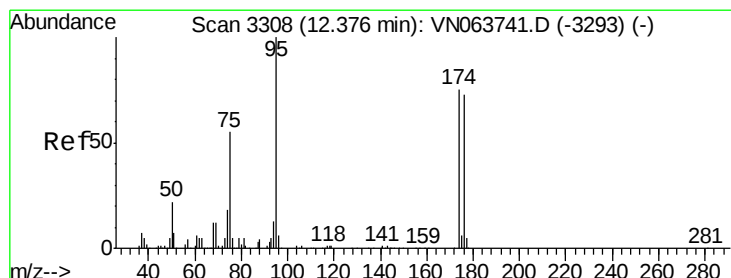
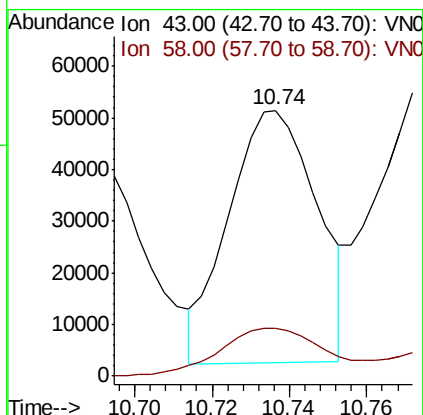
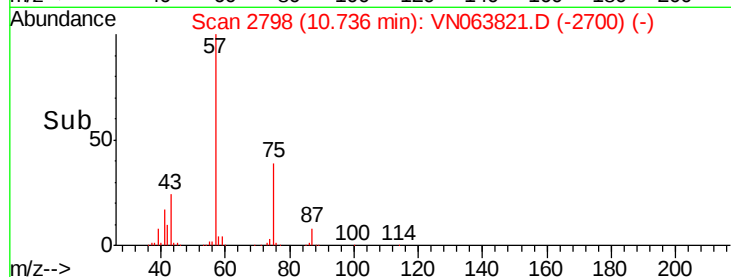
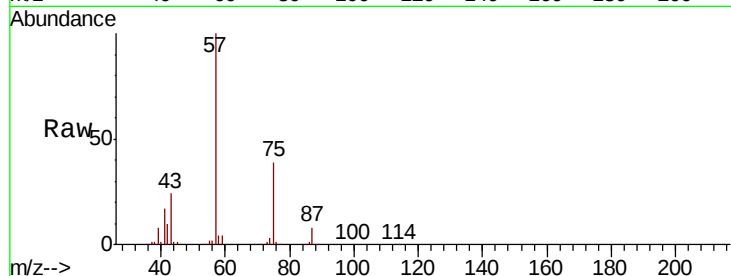
PB132030TB

Tot Ion: 43 Resp: 77475

Ion Ratio Lower Upper

43 100

58 22.6 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 54.721 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

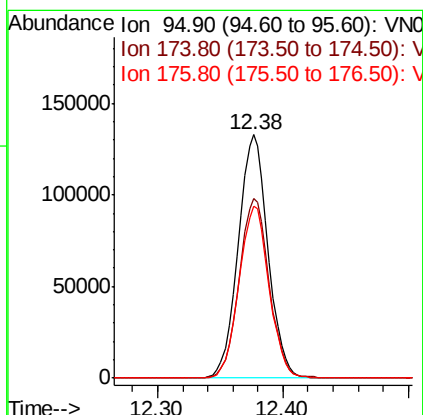
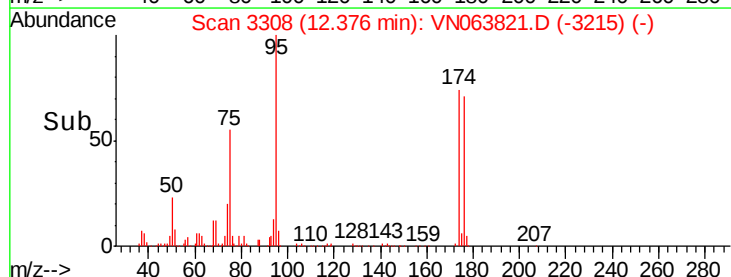
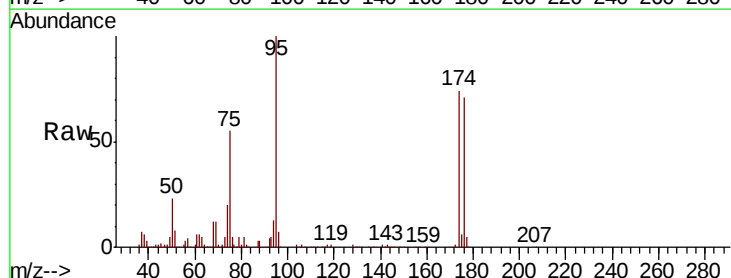
Tgt Ion: 95 Resp: 218510

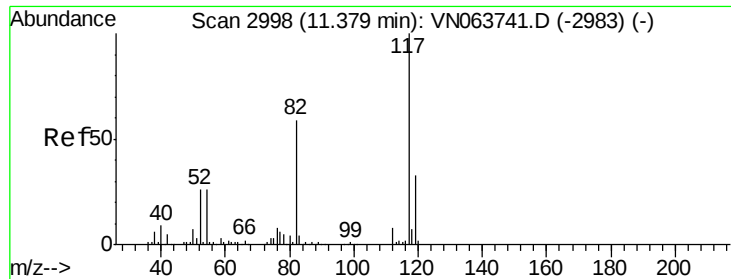
Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.6

176 71.5 0.0 145.4

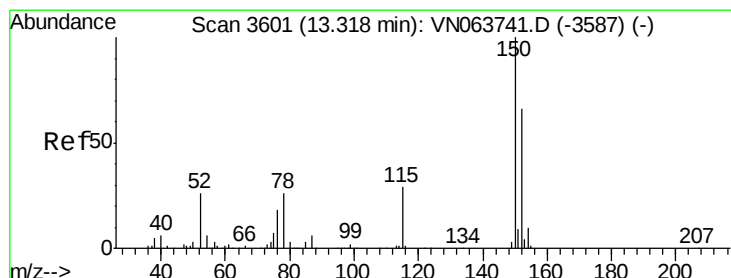
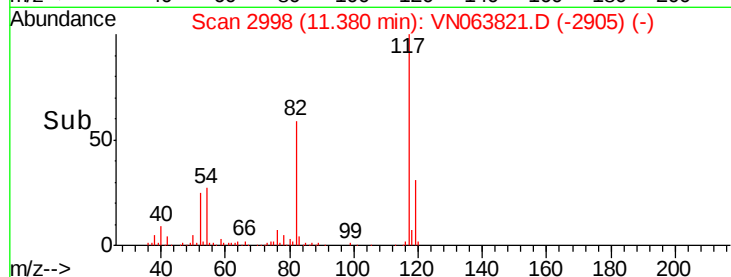
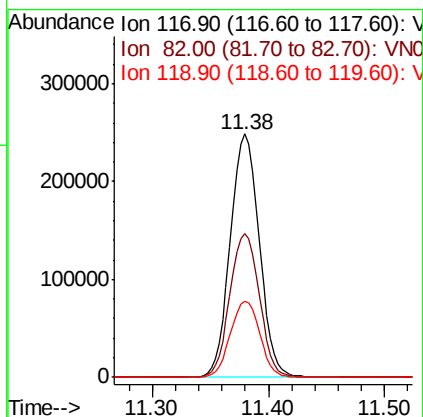
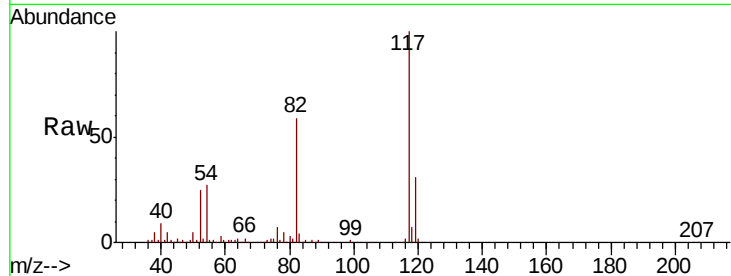




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

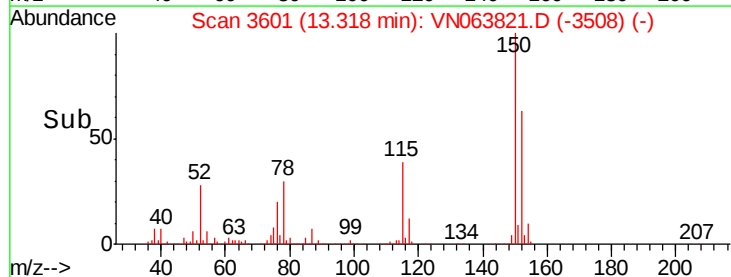
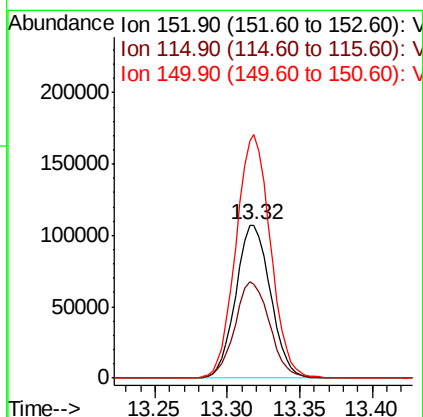
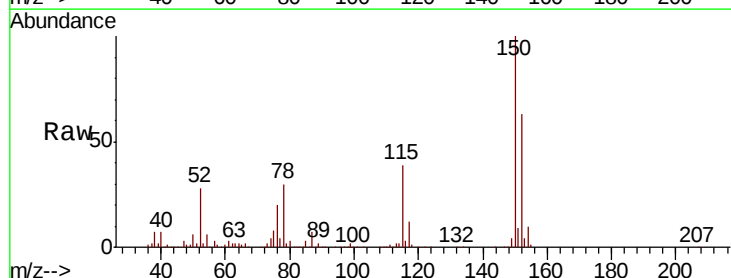
Instrument :
MSVOA_N
ClientSampleId :
PB132030TB

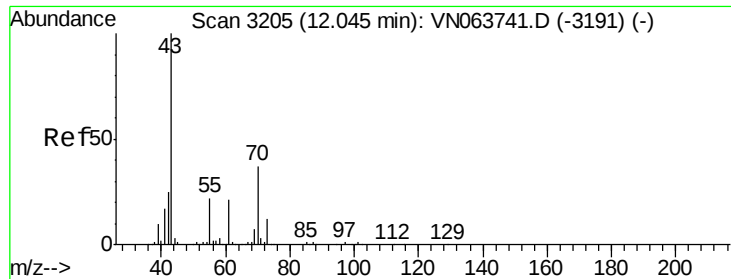
Tot Ion:117 Resp: 432785
Ion Ratio Lower Upper
117 100
82 59.1 47.4 71.2
119 31.3 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063821.D
Acq: 2 Oct 2020 15:09

Tgt Ion:152 Resp: 179814
Ion Ratio Lower Upper
152 100
115 62.8 31.3 93.8
150 157.3 0.0 341.8





#74

N-amvl acetate

Concen: 3.197 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

PB132030TB

Tot Ion: 43 Resp: 6259

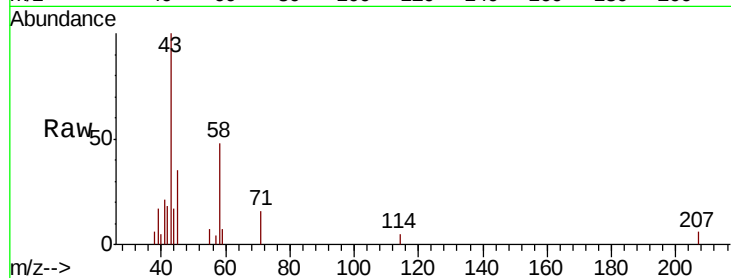
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 11.0 17.9 26.9#

61 0.0 17.0 25.4#

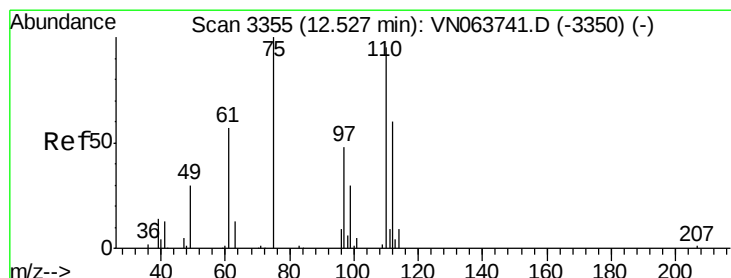
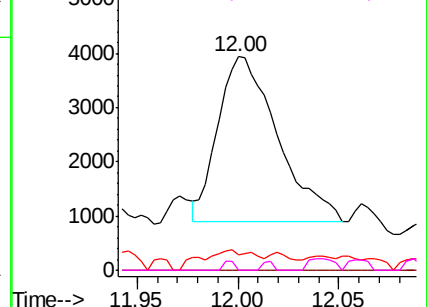
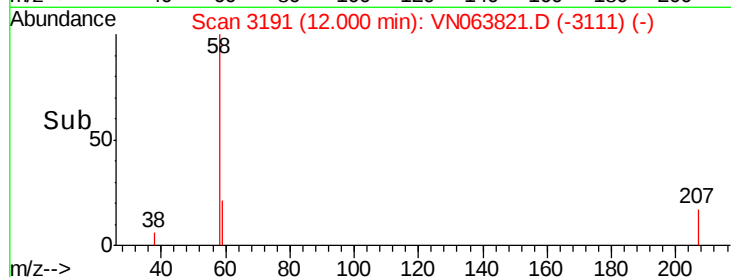


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.707 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063821.D

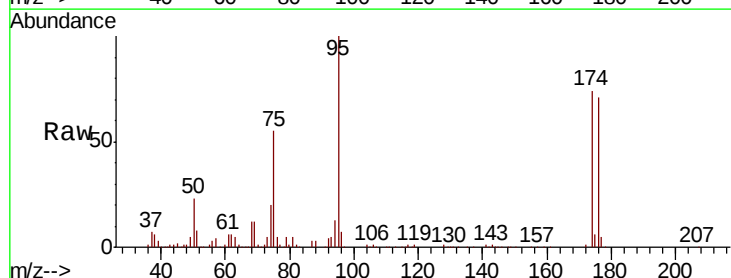
Acq: 2 Oct 2020 15:09

Tgt Ion: 75 Resp: 121716

Ion Ratio Lower Upper

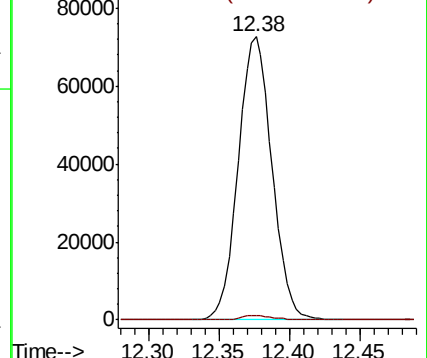
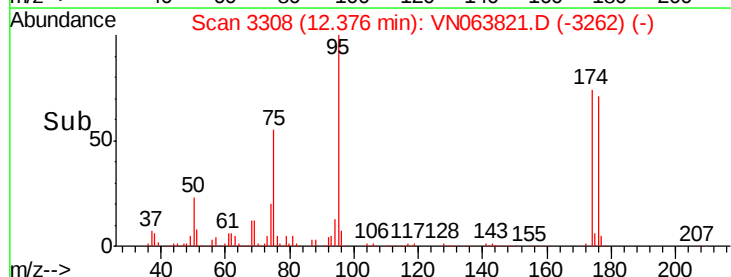
75 100

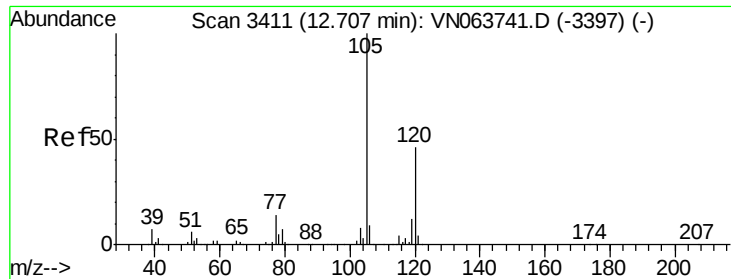
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

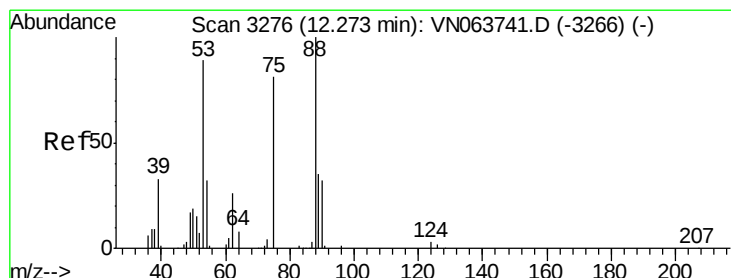
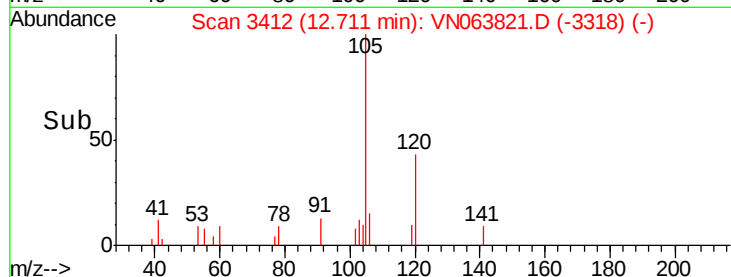
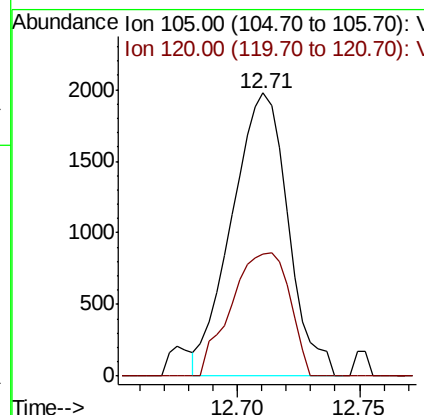
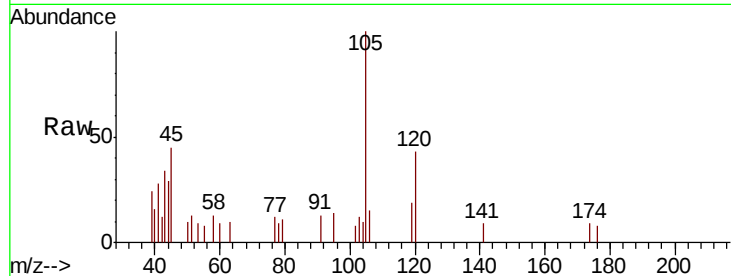




#80
 1,3,5-Trimethylbenzene
 Concen: 0.288 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063821.D
 Acq: 2 Oct 2020 15:09

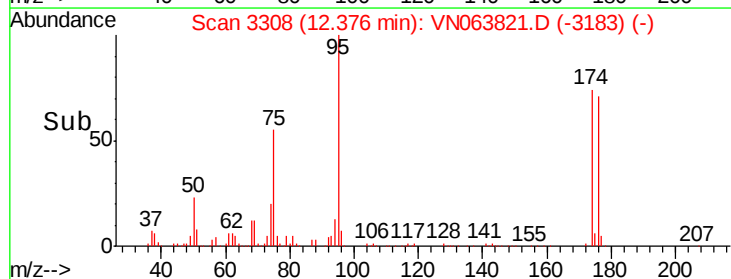
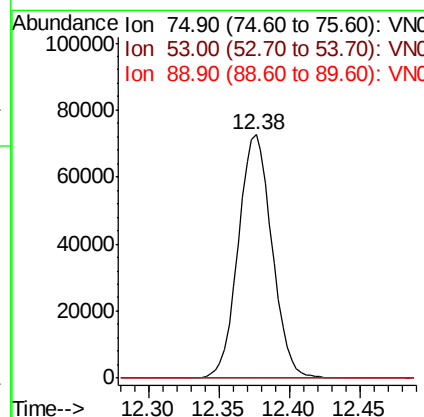
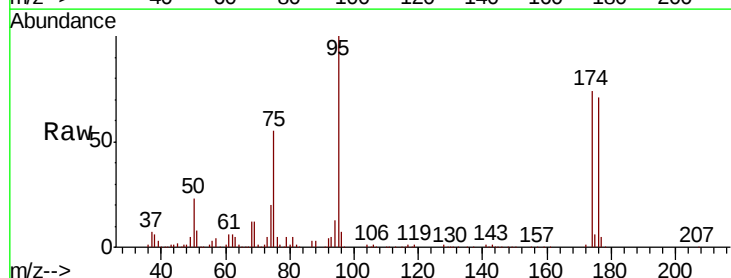
Instrument :
 MSVOA_N
 ClientSampled :
 PB132030TB

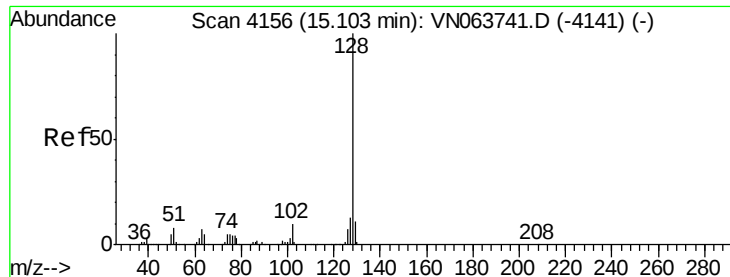
Tot Ion:105 Resp: 3164
 Ion Ratio Lower Upper
 105 100
 120 45.2 23.3 69.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.440 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063821.D
 Acq: 2 Oct 2020 15:09

Tgt Ion: 75 Resp: 121716
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 2.051 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063821.D

Acq: 2 Oct 2020 15:09

Instrument :

MSVOA_N

ClientSampleId :

PB132030TB

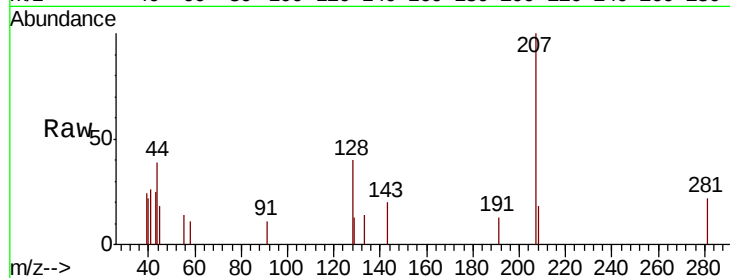
Tot Ion:128 Resp: 1280

Ion Ratio Lower Upper

128 100

127 10.2 10.5 15.7#

129 8.1 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

