

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063823.D
 Acq On : 2 Oct 2020 15:56
 Operator : JC/MD
 Sample : PB132030ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#02

Quant Time: Oct 05 04:16:04 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	217077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	408560	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	428178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	172465	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	189242	52.77	ug/l	0.00
Spiked Amount			Recovery	=	105.54%	
35) Dibromofluoromethane	7.55	113	132392	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	
50) Toluene-d8	10.06	98	526677	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
62) 4-Bromofluorobenzene	12.38	95	211840	52.44	ug/l	0.00
Spiked Amount			Recovery	=	104.88%	

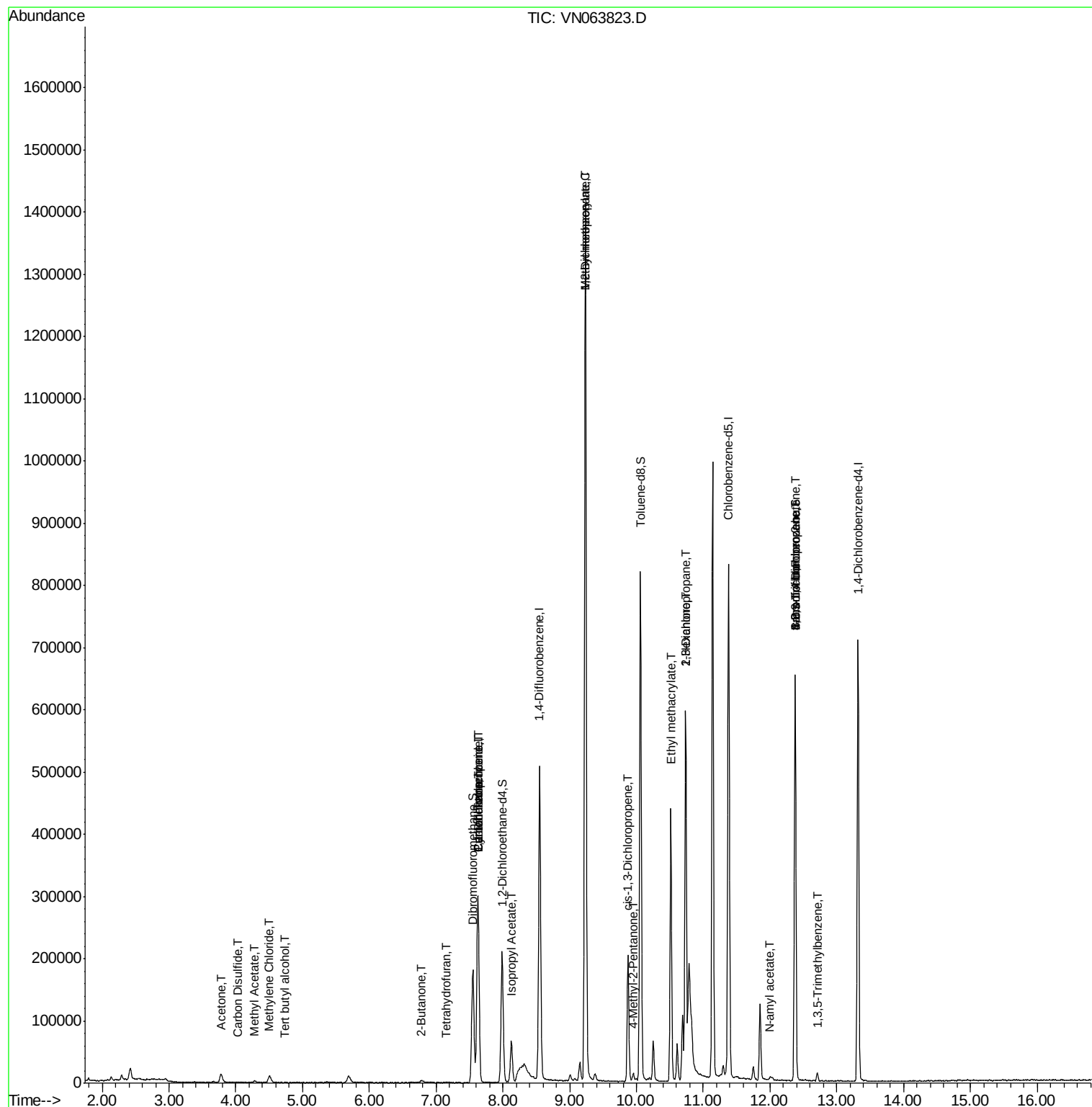
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	166	0.419	ug/l #	71
16) Acetone	3.78	43	24175	21.898	ug/l	95
17) Carbon Disulfide	4.02	76	265	0.745	ug/l #	76
18) Methyl Acetate	4.28	43	4126	1.439	ug/l #	88
20) Methylene Chloride	4.50	84	6769	2.770	ug/l	91
25) 2-Butanone	6.78	43	1413	0.903	ug/l #	51
29) Tetrahydrofuran	7.16	42	403	0.384	ug/l #	36
31) Cyclohexane	7.62	56	6404	1.538	ug/l #	43
36) 1,1-Dichloropropene	7.63	75	19627	4.742	ug/l #	50
38) Carbon Tetrachloride	7.63	117	24555	5.290	ug/l #	15
43) Isopropyl Acetate	8.13	43	80148	11.816	ug/l	99
45) 1,2-Dichloropropane	9.23	63	784	0.246	ug/l #	44
48) Methyl methacrylate	9.23	41	143609	42.853	ug/l #	47
51) 4-Methyl-2-Pentanone	9.95	43	7682	1.930	ug/l #	87
54) cis-1,3-Dichloropropene	9.87	75	31050	6.101	ug/l #	74
56) Ethyl methacrylate	10.51	69	2361	0.568	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5472	1.103	ug/l #	43
59) 2-Hexanone	10.74	43	64766	21.902	ug/l	65
71) Bromoform	12.38	173	1150	0.447	ug/l #	1
74) N-amyl acetate	12.00	43	3887	2.851	ug/l #	57
76) 1,2,3-Trichloropropane	12.38	75	121605	31.986	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6195	0.587	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	121605	92.125	ug/l #	6

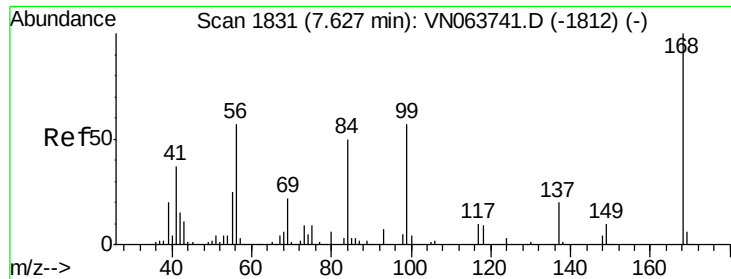
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 05 04:16:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 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: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

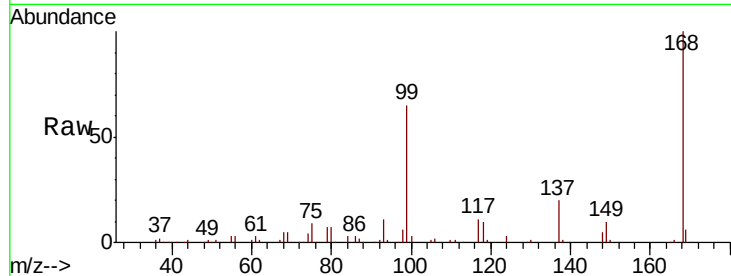
PB132030ZHE#02

Tot Ion:168 Resp: 217077

Ion Ratio Lower Upper

168 100

99 65.2 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

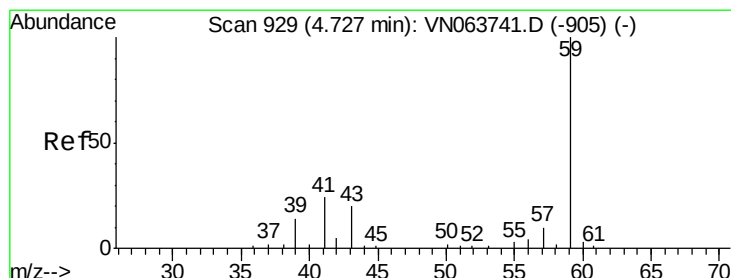
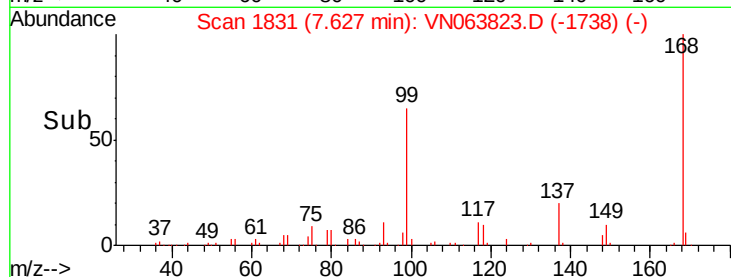
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.419 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063823.D

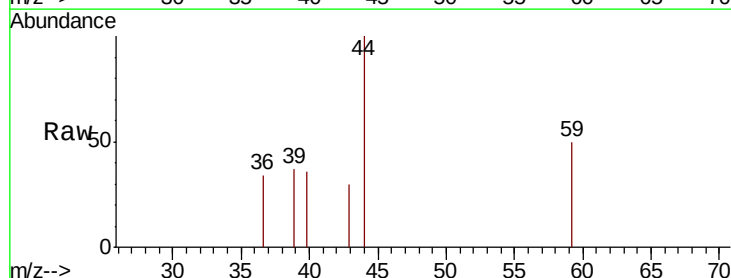
Acq: 2 Oct 2020 15:56

Tgt Ion: 59 Resp: 166

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

4.72

250

200

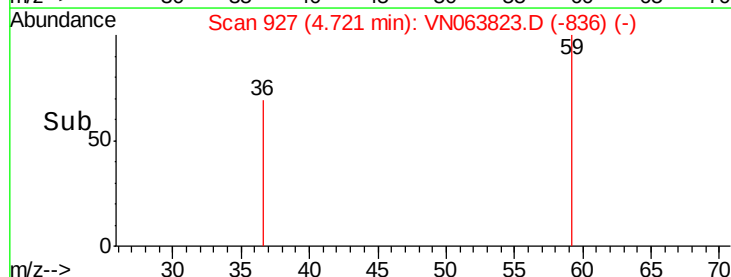
150

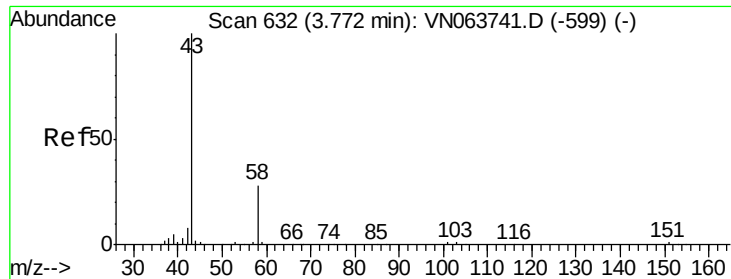
100

50

0

Time-->





#16

Acetone

Concen: 21.898 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

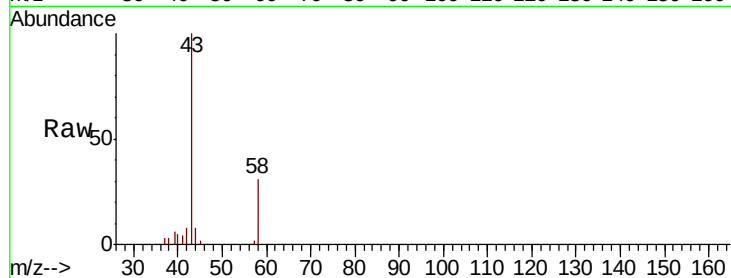
PB132030ZHE#02

Tot Ion: 43 Resp: 24175

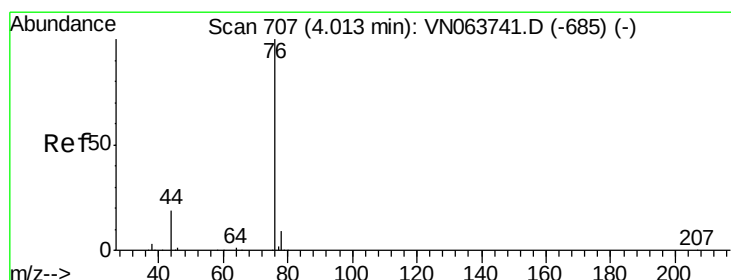
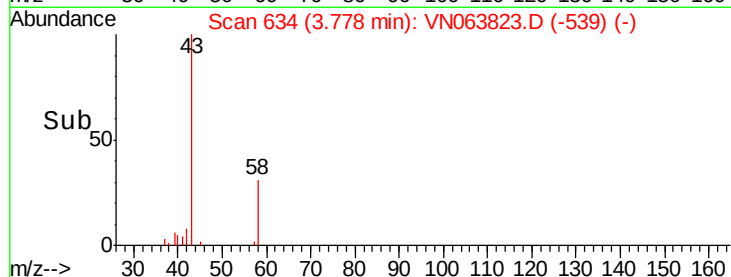
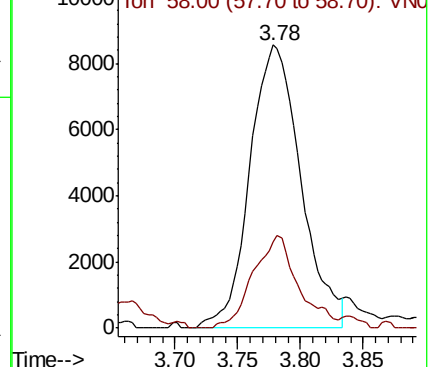
Ion Ratio Lower Upper

43 100

58 30.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063823.D (-539) (-)



#17

Carbon Disulfide

Concen: 0.745 ug/l

RT: 4.02 min Scan# 710

Delta R.T. 0.01 min

Lab File: VN063823.D

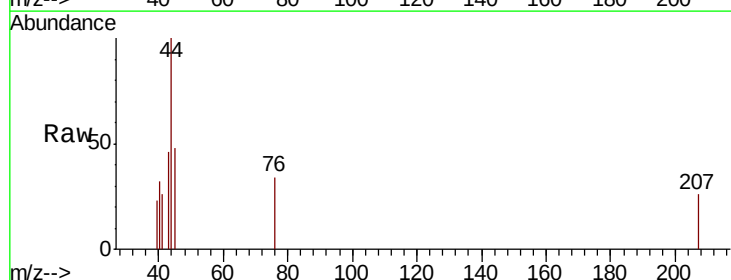
Acq: 2 Oct 2020 15:56

Tgt Ion: 76 Resp: 265

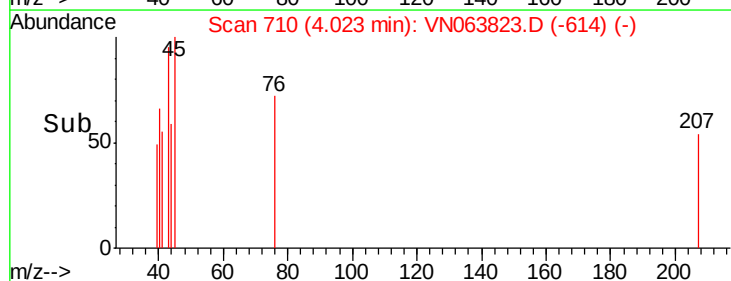
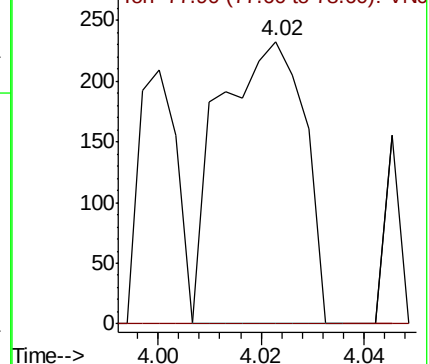
Ion Ratio Lower Upper

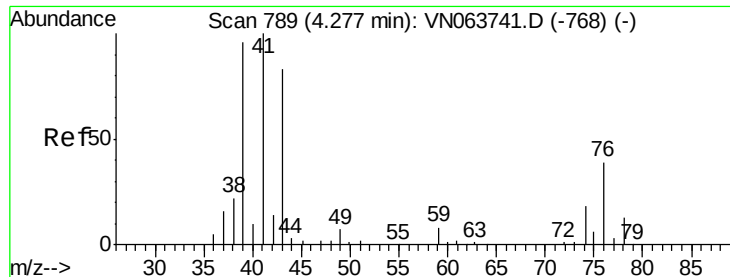
76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063823.D (-614) (-)

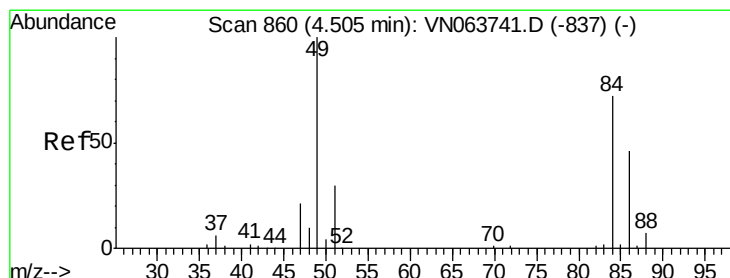
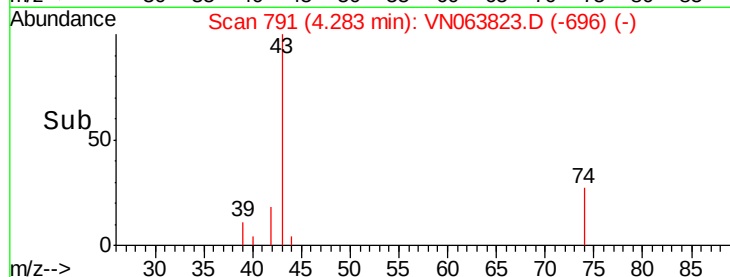
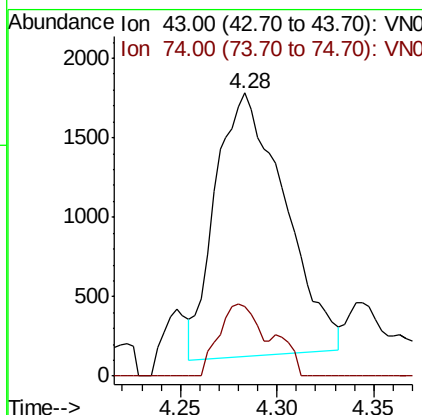
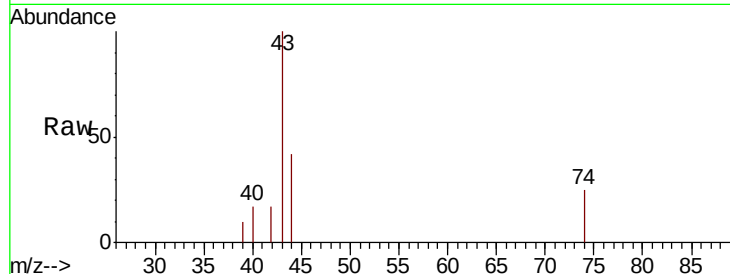




#18
Methvl Acetate
Concen: 1.439 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

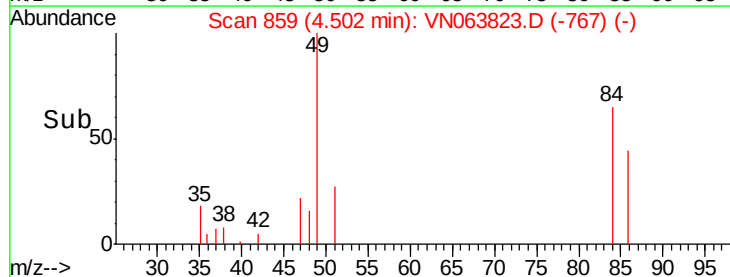
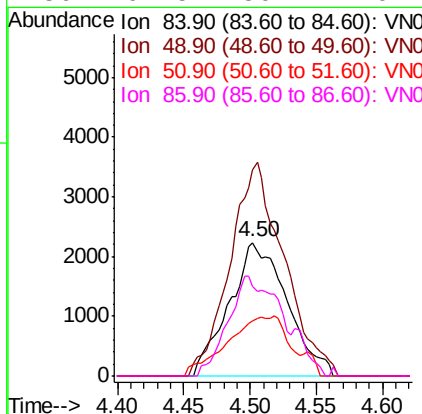
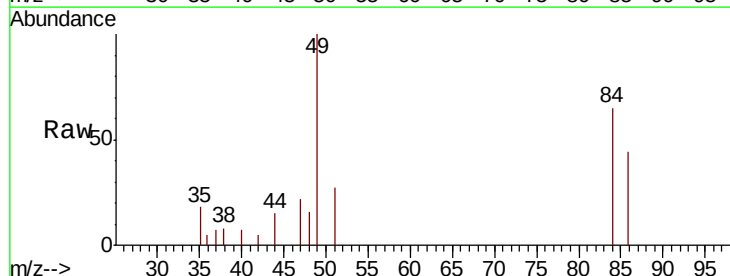
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#02

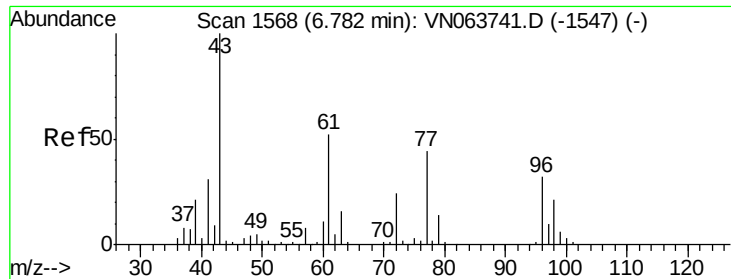
Tot Ion: 43 Resp: 4126
Ion Ratio Lower Upper
43 100
74 16.3 17.4 26.2#



#20
Methylene Chloride
Concen: 2.770 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

Tgt Ion: 84 Resp: 6769
Ion Ratio Lower Upper
84 100
49 154.3 110.4 165.6
51 41.4 33.3 49.9
86 67.5 50.7 76.1





#25

2-Butanone

Concen: 0.903 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

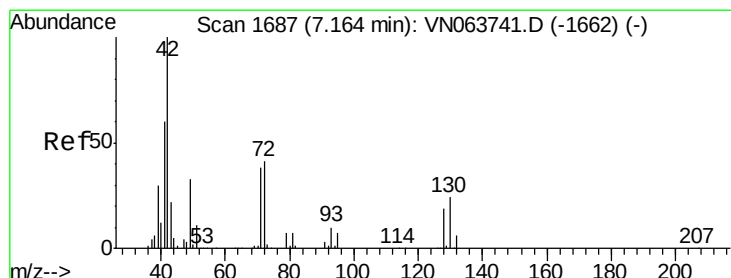
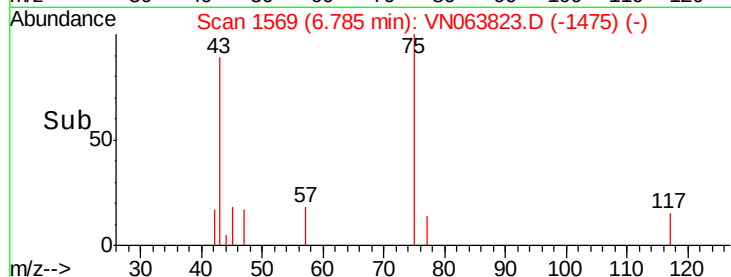
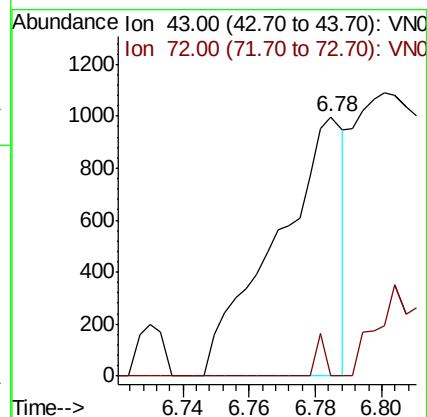
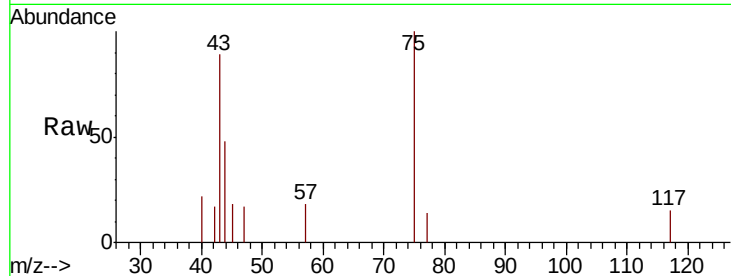
PB132030ZHE#02

Tot Ion: 43 Resp: 1413

Ion Ratio Lower Upper

43 100

72 0.0 19.3 28.9#



#29

Tetrahydrofuran

Concen: 0.384 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

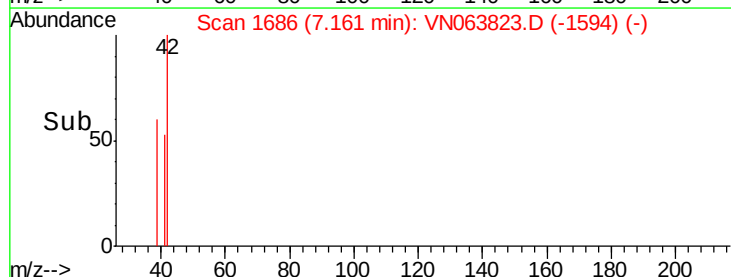
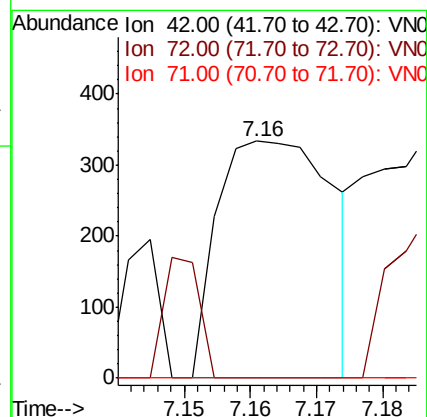
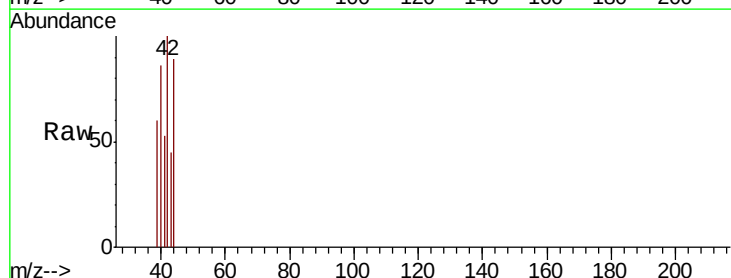
Tgt Ion: 42 Resp: 403

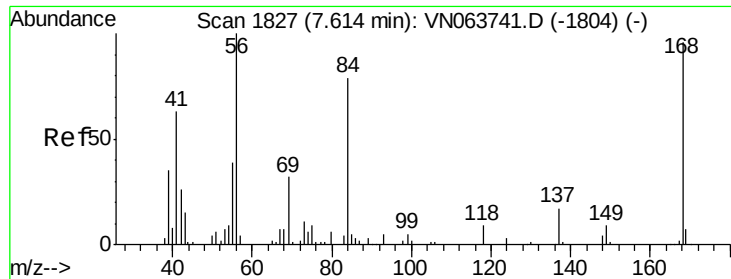
Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 30.6 45.8#

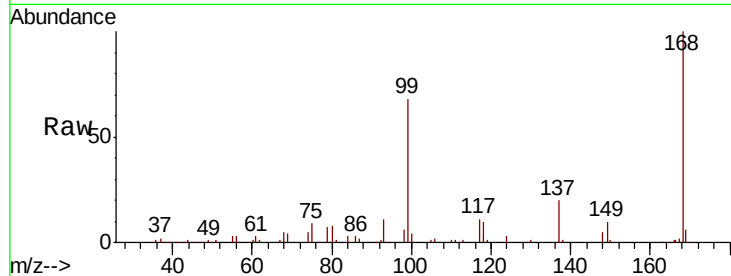




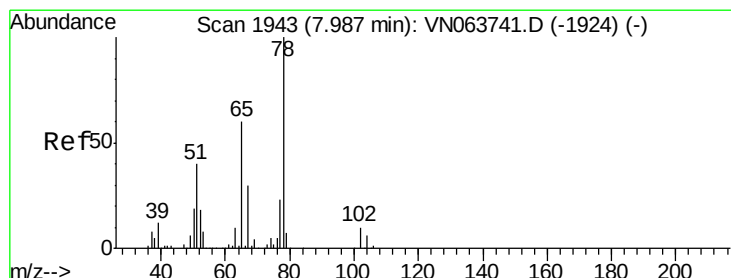
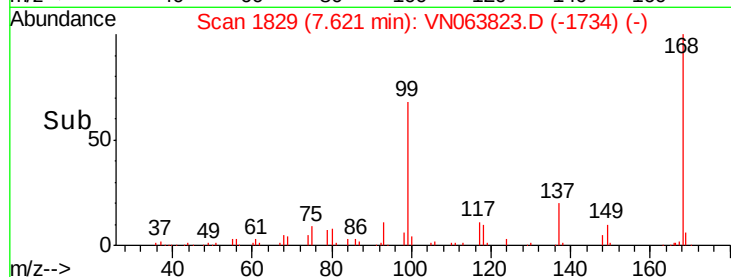
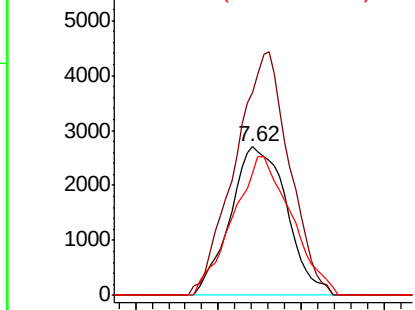
#31
Cyclohexane
Concen: 1.538 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#02

Tot Ion: 56 Resp: 6404
Ion Ratio Lower Upper
56 100
69 136.5 25.4 38.2#
84 82.5 63.3 94.9

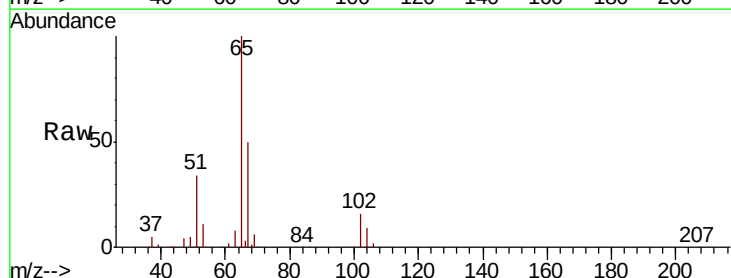


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

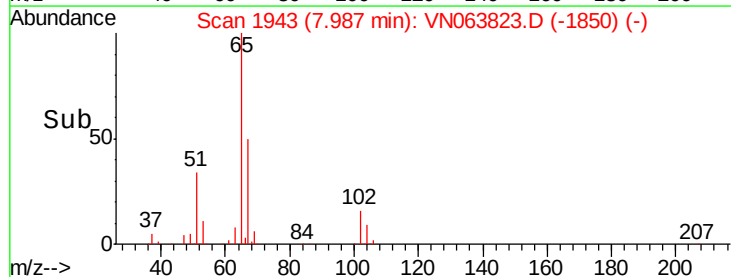
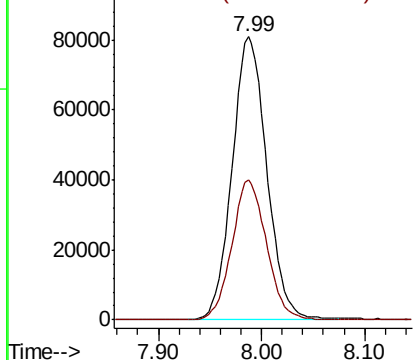


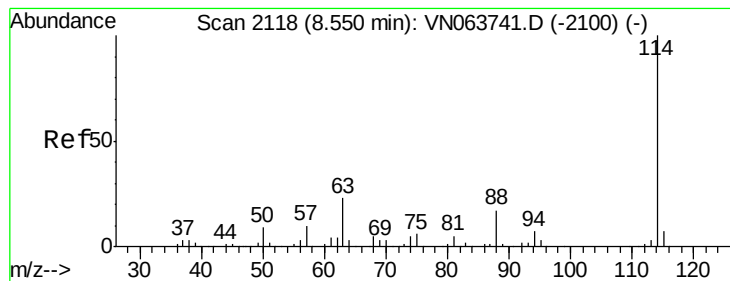
#33
1,2-Dichloroethane-d4
Concen: 52.769 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

Tgt Ion: 65 Resp: 189242
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: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#02

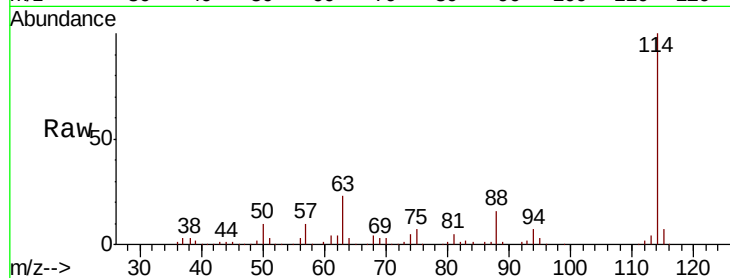
Tot Ion:114 Resp: 408560

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.0

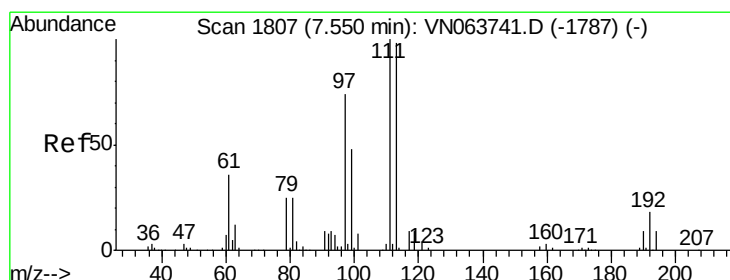
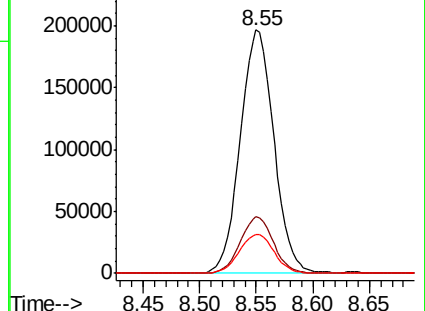
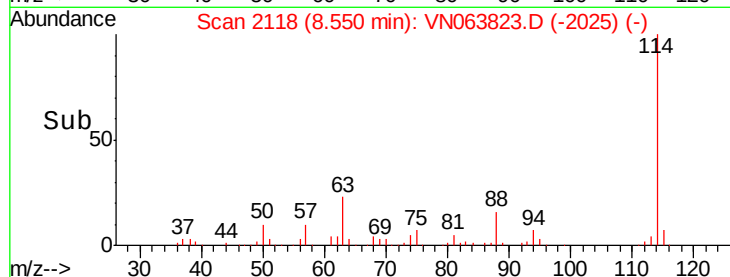
88 15.9 0.0 34.0



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: 46.701 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

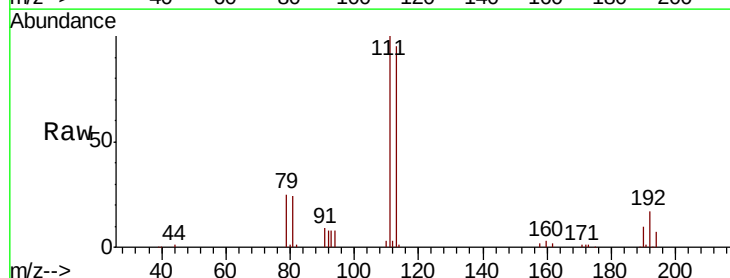
Tgt Ion:113 Resp: 132392

Ion Ratio Lower Upper

113 100

111 104.3 81.8 122.8

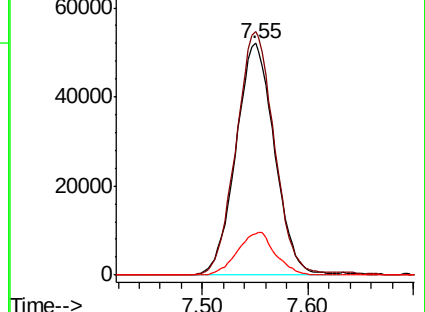
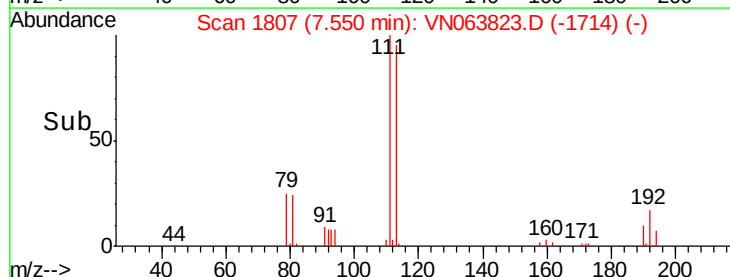
192 18.1 14.2 21.2

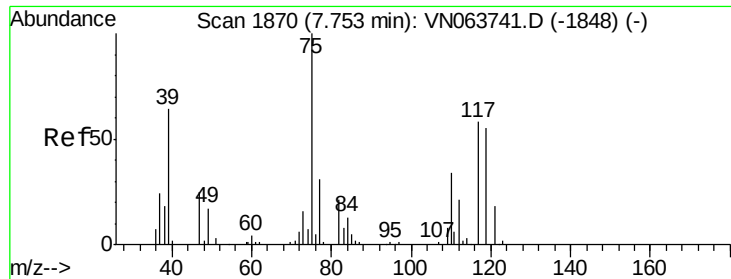


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

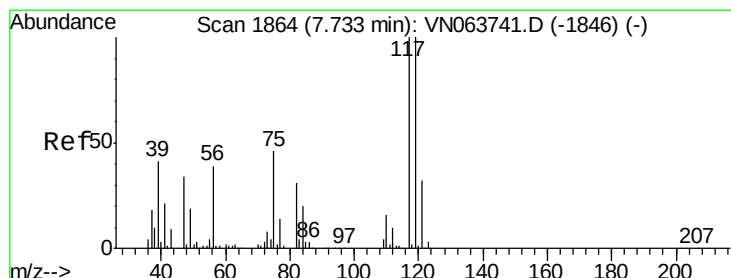
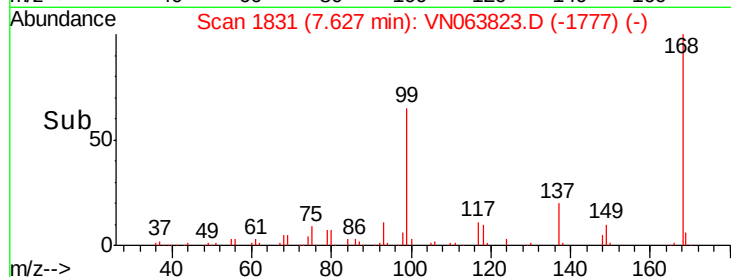
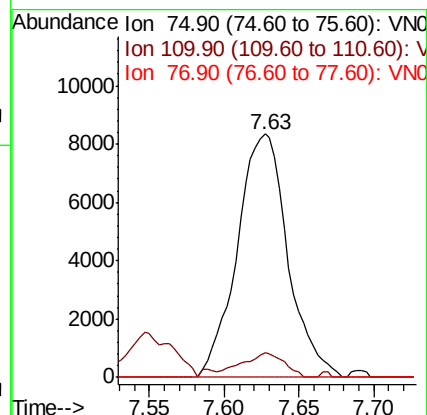
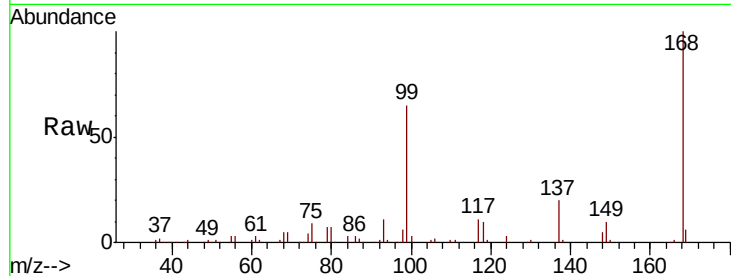




#36
 1,1-Dichloropropene
 Concen: 4.742 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063823.D
 Acq: 2 Oct 2020 15:56

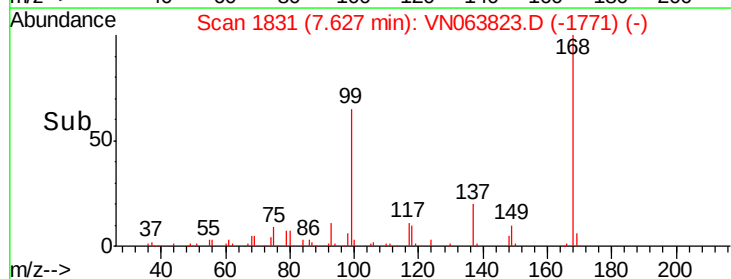
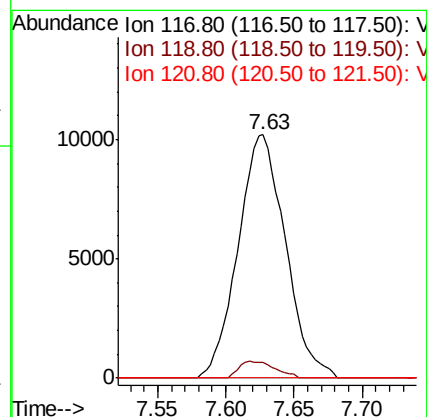
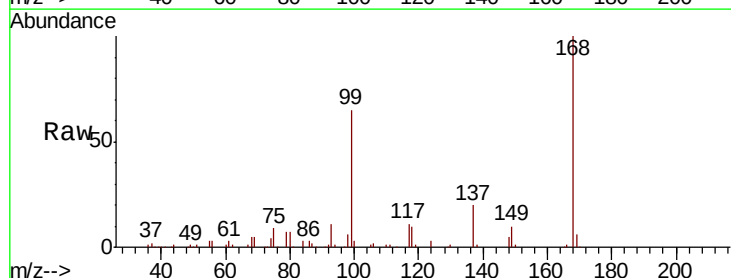
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#02

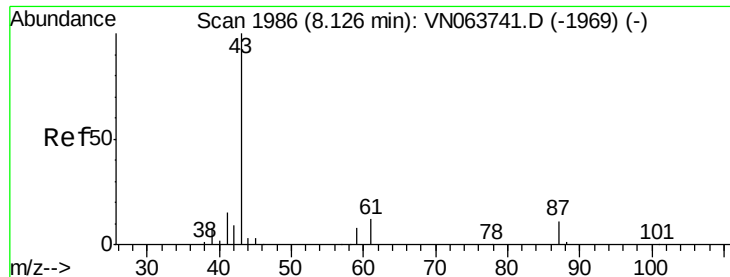
Tot Ion: 75 Resp: 19627
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.290 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063823.D
 Acq: 2 Oct 2020 15:56

Tgt Ion: 117 Resp: 24555
 Ion Ratio Lower Upper
 117 100
 119 6.5 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 11.816 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#02

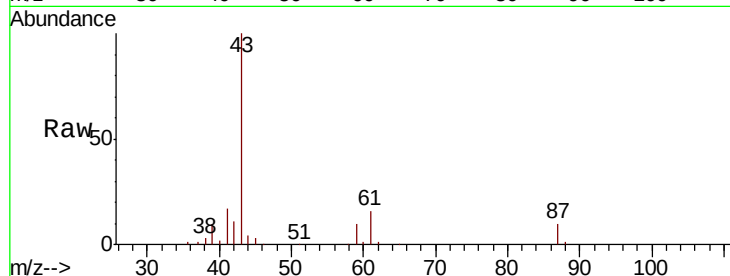
Tot Ion: 43 Resp: 80148

Ion Ratio Lower Upper

43 100

61 17.3 14.2 21.4

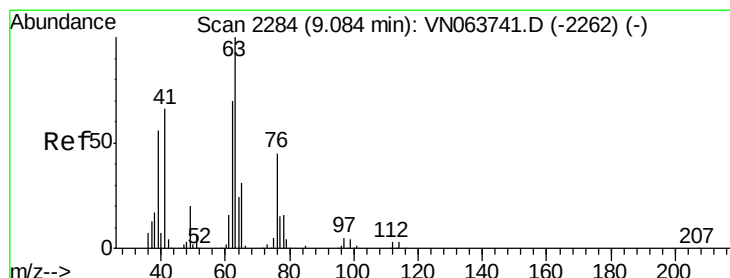
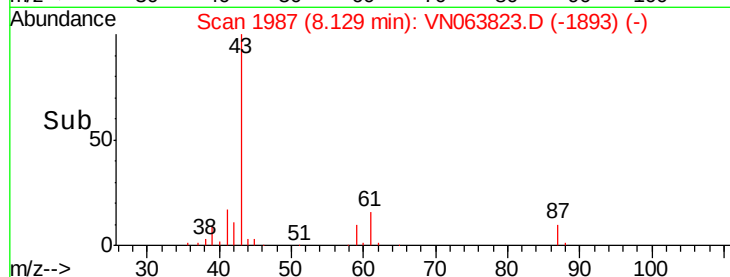
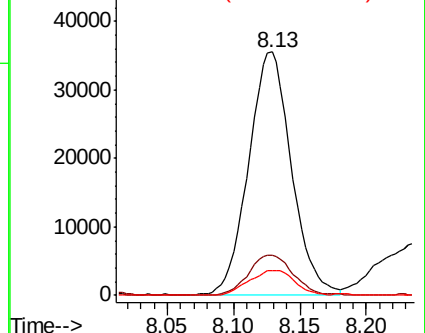
87 10.9 9.0 13.6



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: 0.246 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063823.D

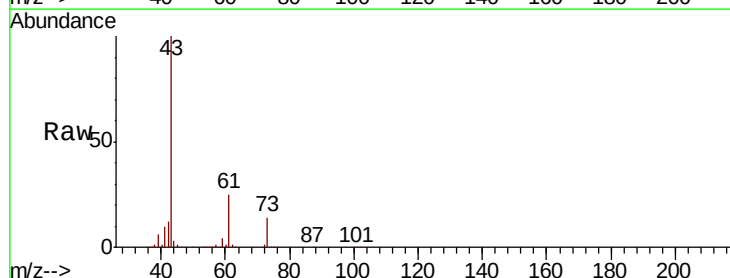
Acq: 2 Oct 2020 15:56

Tgt Ion: 63 Resp: 784

Ion Ratio Lower Upper

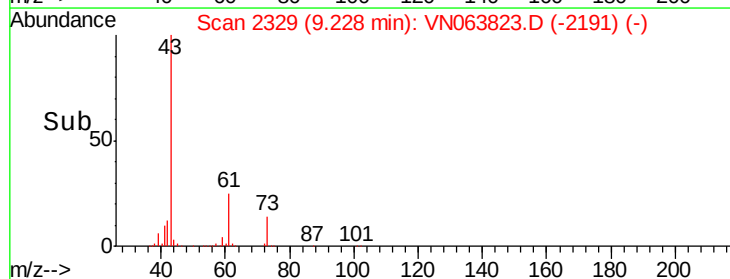
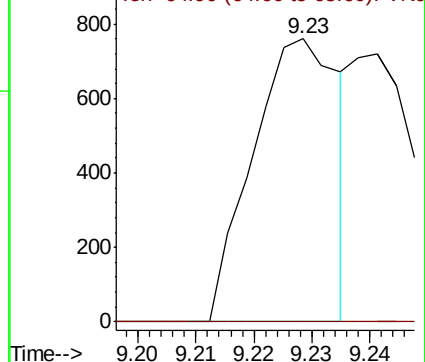
63 100

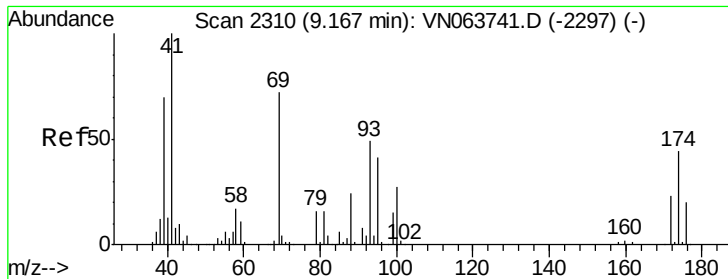
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

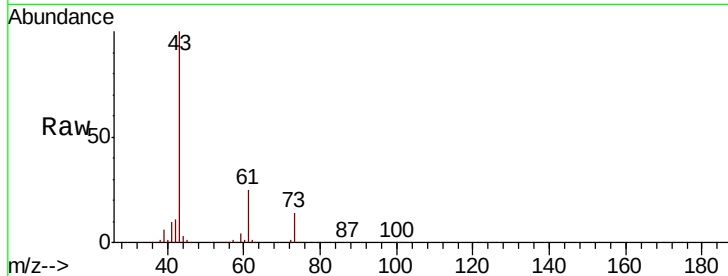




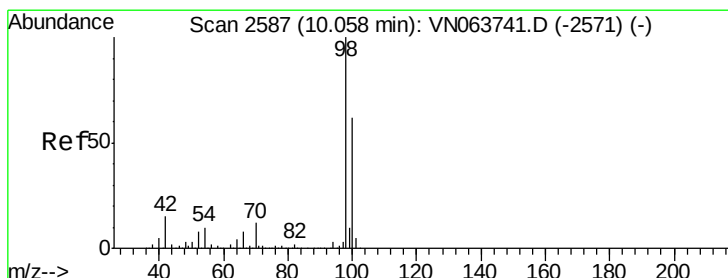
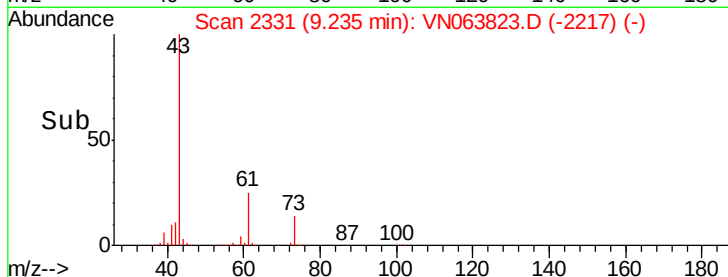
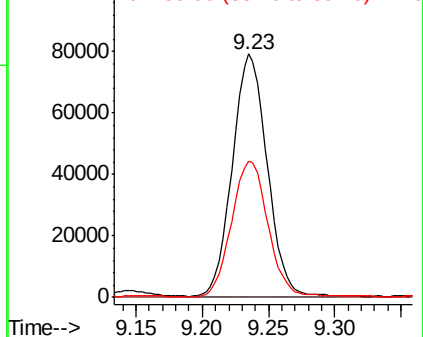
#48
Methyl methacrylate
Concen: 42.853 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#02

Tot Ion: 41 Resp: 143609
Ion Ratio Lower Upper
41 100
69 0.1 60.9 91.3#
39 58.9 57.5 86.3

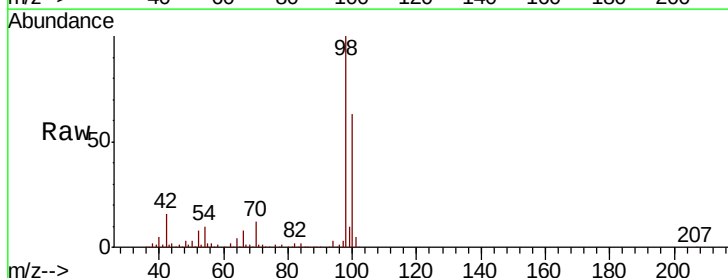


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

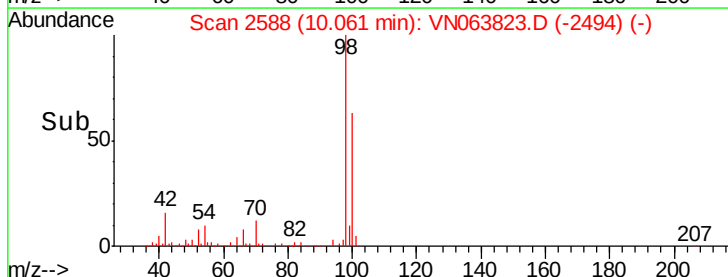
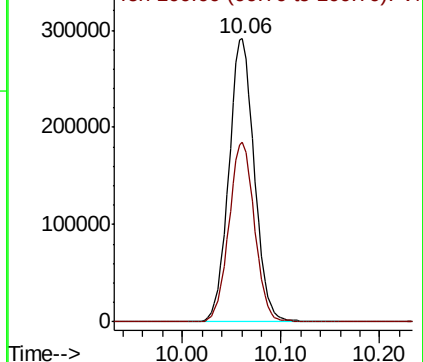


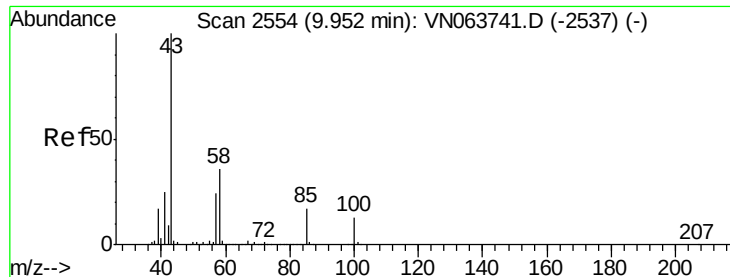
#50
Toluene-d8
Concen: 49.008 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

Tgt Ion: 98 Resp: 526677
Ion Ratio Lower Upper
98 100
100 63.5 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

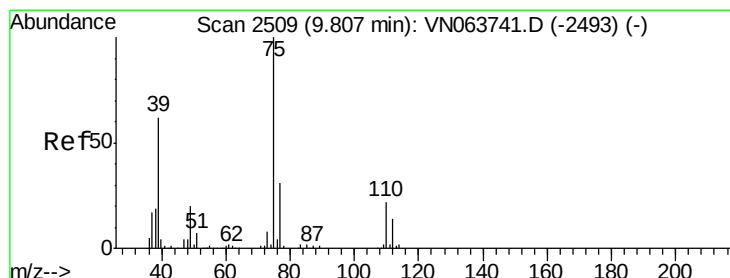
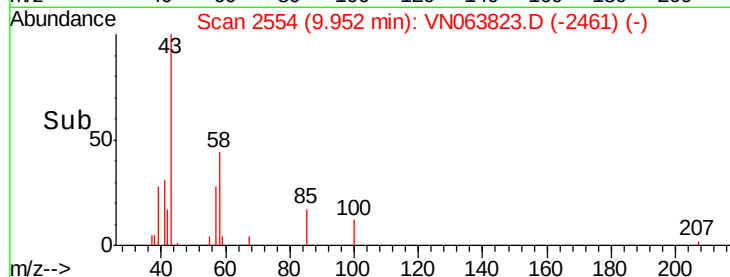
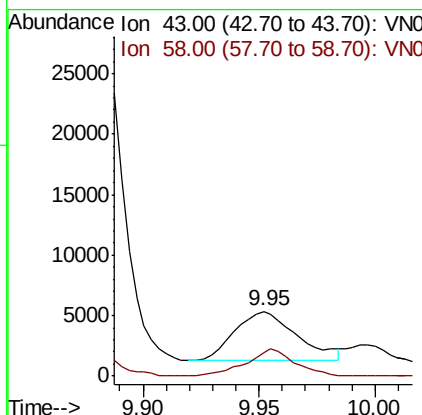
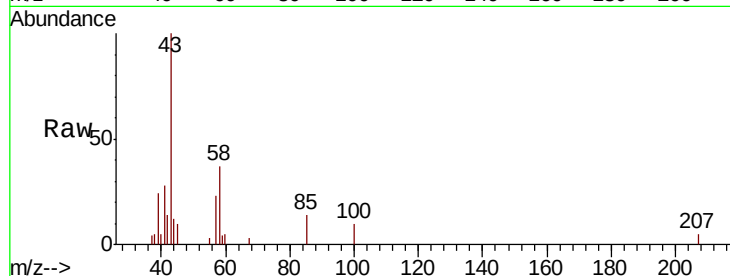




#51
 4-Methyl-2-Pentanone
 Concen: 1.930 ug/l
 RT: 9.95 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN063823.D
 Acq: 2 Oct 2020 15:56

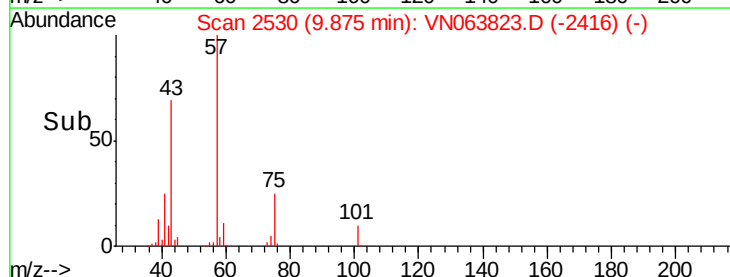
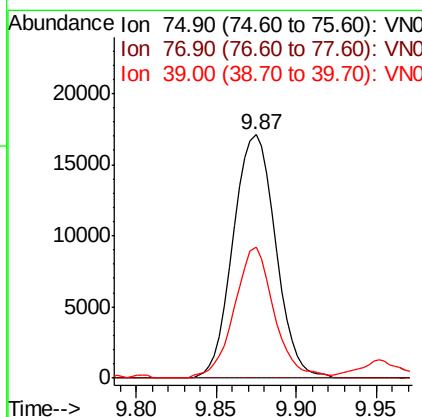
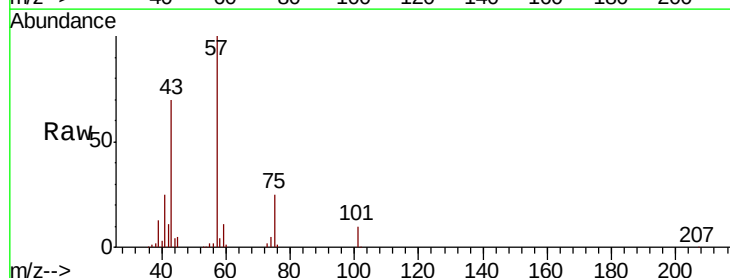
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#02

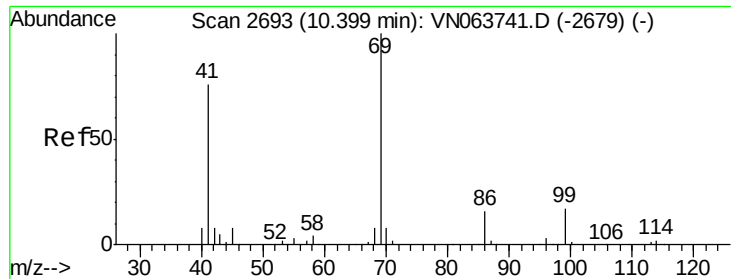
Tot Ion: 43 Resp: 7682
 Ion Ratio Lower Upper
 43 100
 58 43.1 28.4 42.6#



#54
 cis-1,3-Dichloropropene
 Concen: 6.101 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063823.D
 Acq: 2 Oct 2020 15:56

Tgt Ion: 75 Resp: 31050
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 53.8 49.7 74.5





#56

Ethyl methacrylate

Concen: 0.568 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#02

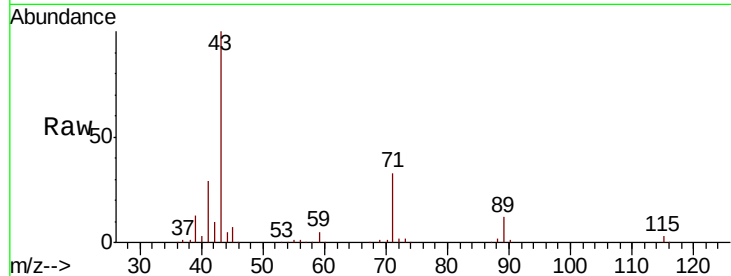
Tot Ion: 69 Resp: 2361

Ion Ratio Lower Upper

69 100

41 3884.7 61.1 91.7#

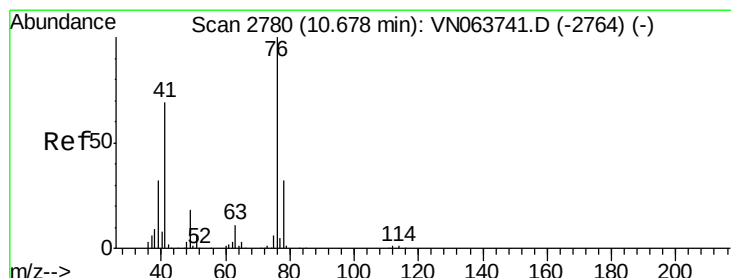
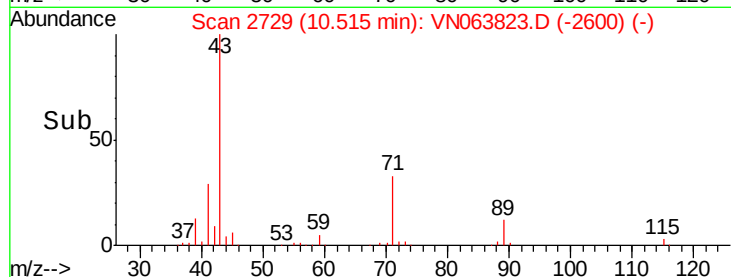
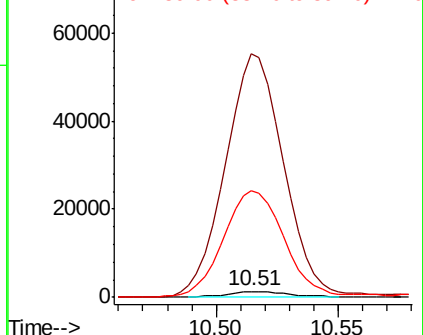
39 1781.0 42.2 63.4#



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: 1.103 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063823.D

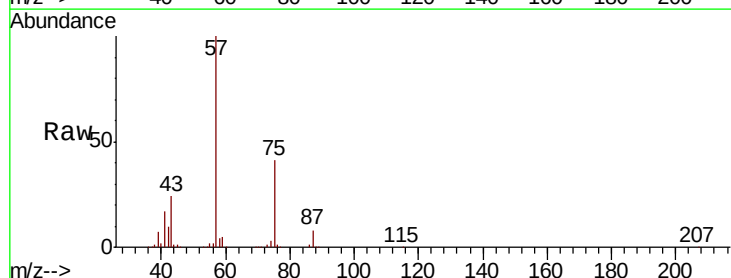
Acq: 2 Oct 2020 15:56

Tgt Ion: 76 Resp: 5472

Ion Ratio Lower Upper

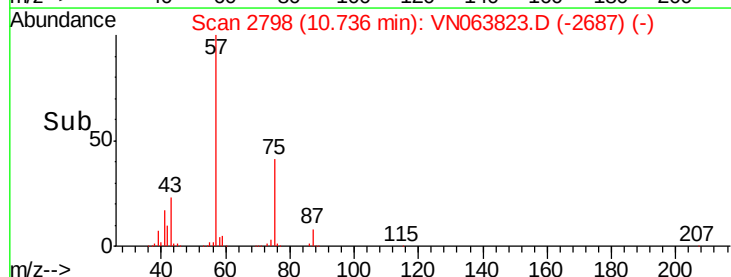
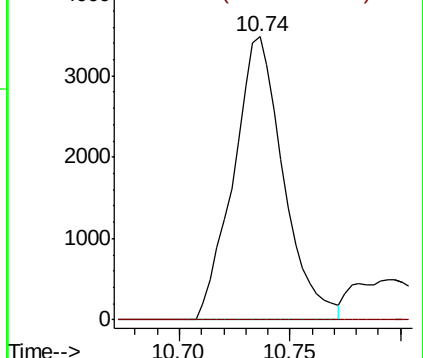
76 100

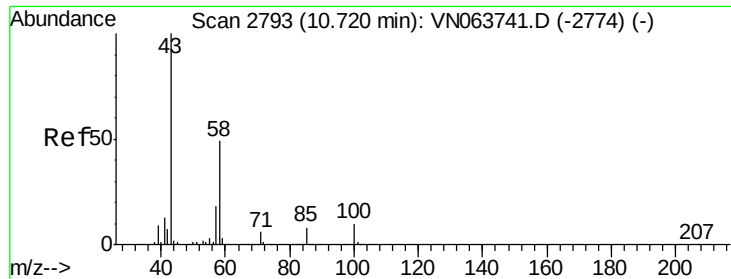
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 21.902 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

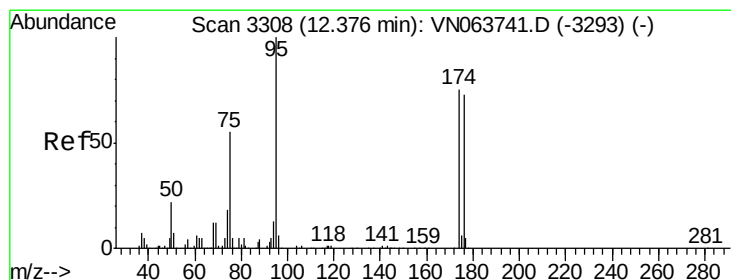
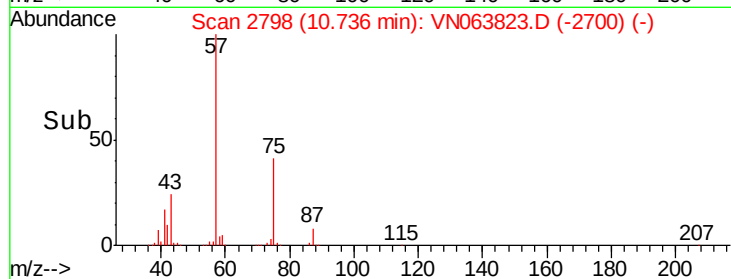
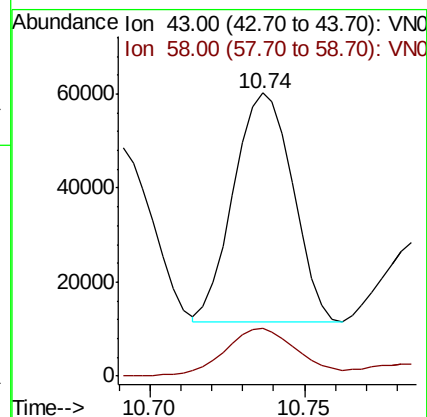
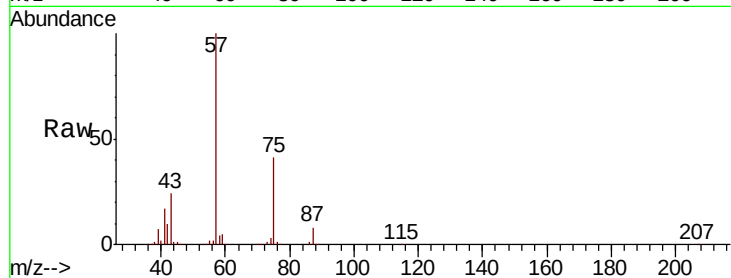
PB132030ZHE#02

Tot Ion: 43 Resp: 64766

Ion Ratio Lower Upper

43 100

58 25.5 24.6 73.8



#62

4-Bromofluorobenzene

Concen: 52.438 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

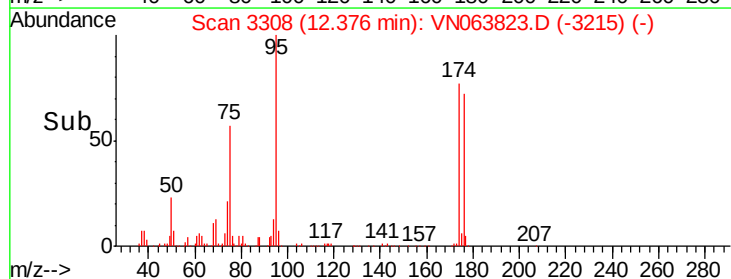
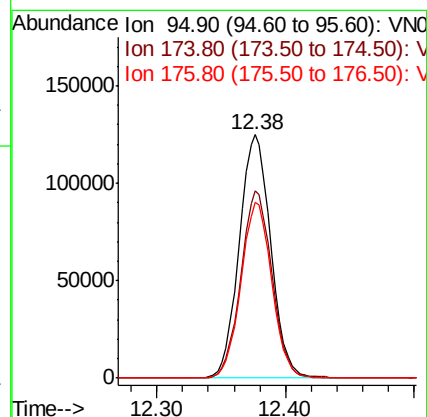
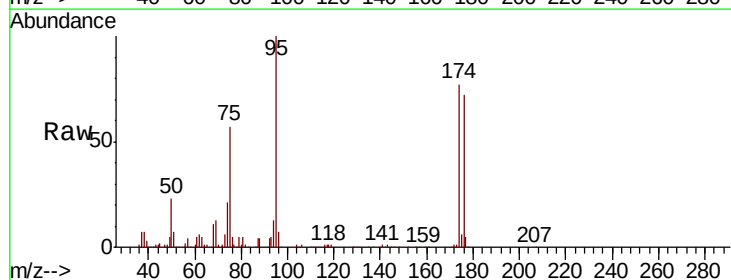
Tgt Ion: 95 Resp: 211840

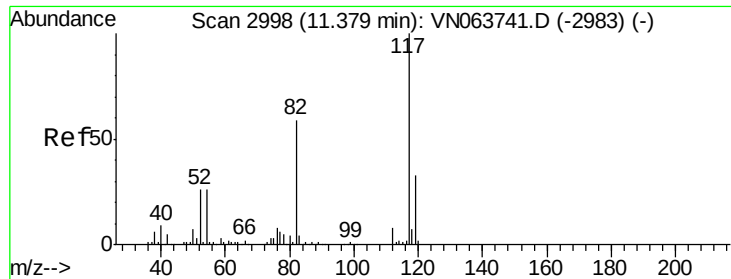
Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.6

176 70.8 0.0 145.4

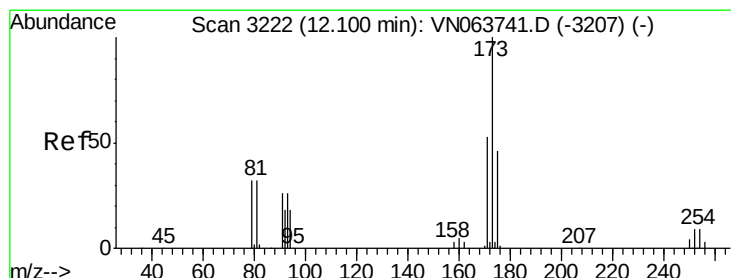
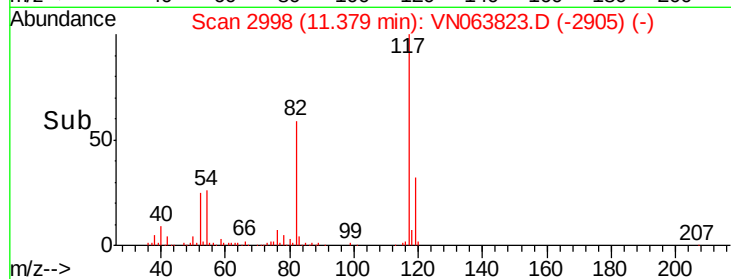
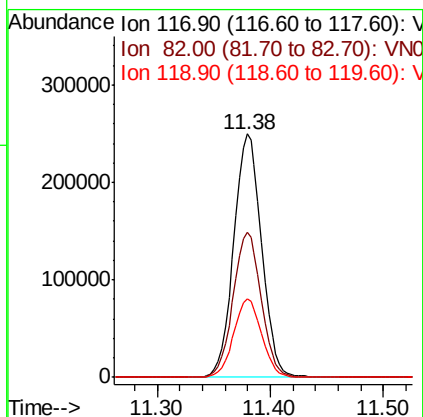
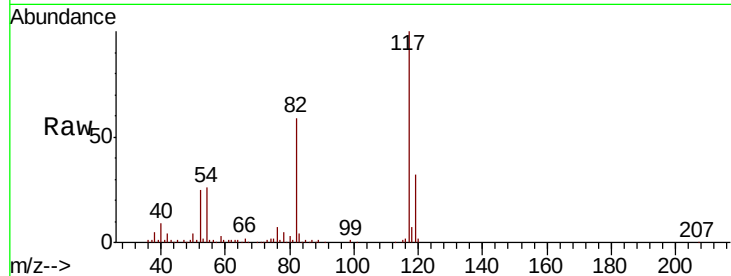




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

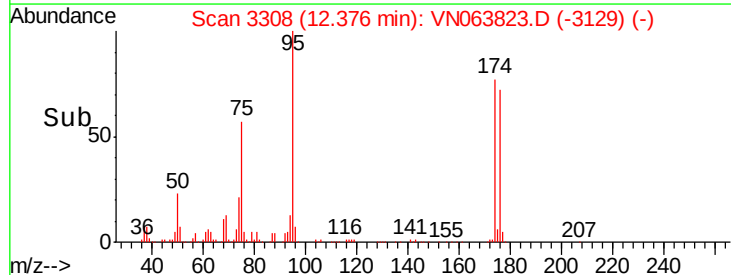
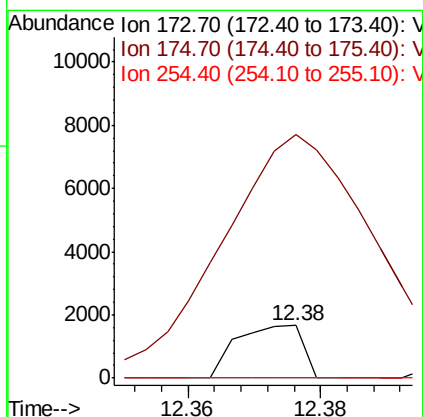
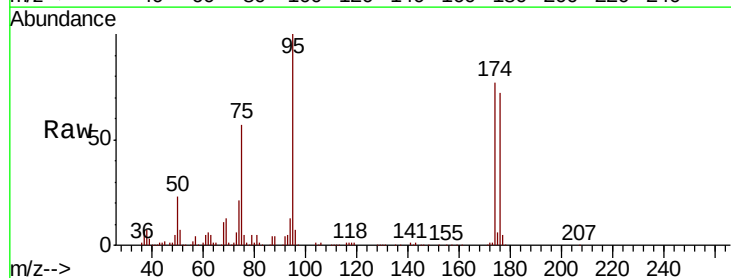
Instrument :
MSVOA_N
ClientSampleId :
PB132030ZHE#02

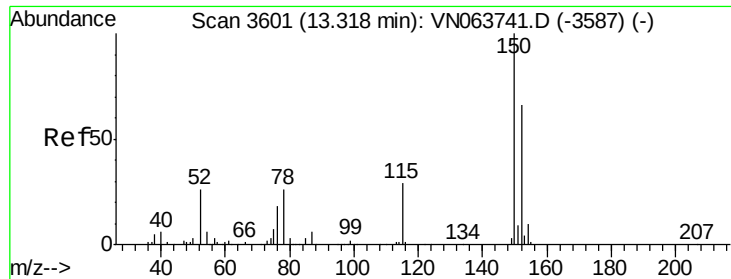
Tot Ion:117 Resp: 428178
Ion Ratio Lower Upper
117 100
82 59.4 47.4 71.2
119 32.1 26.4 39.6



#71
Bromoform
Concen: 0.447 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN063823.D
Acq: 2 Oct 2020 15:56

Tgt Ion:173 Resp: 1150
Ion Ratio Lower Upper
173 100
175 905.1 23.5 70.5#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB132030ZHE#02

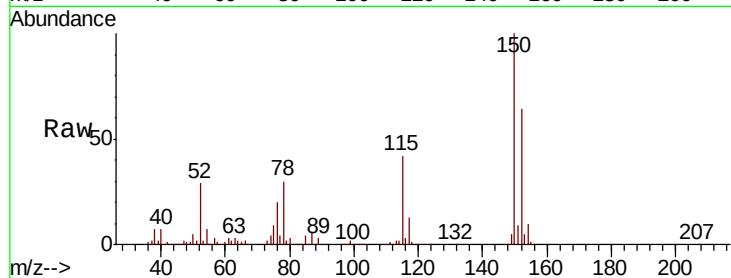
Tot Ion:152 Resp: 172465

Ion Ratio Lower Upper

152 100

115 63.9 31.3 93.8

150 156.4 0.0 341.8

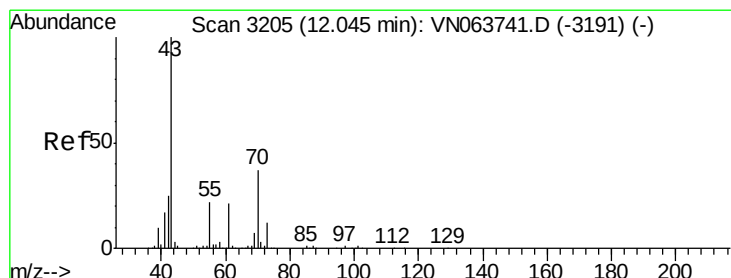
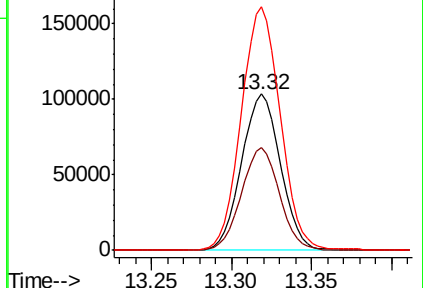
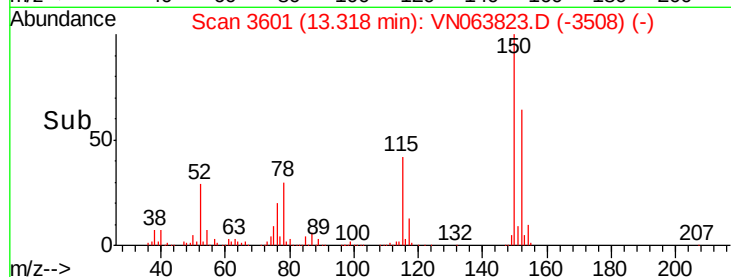


Abundance

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: 2.851 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN063823.D

Acq: 2 Oct 2020 15:56

Tgt Ion: 43 Resp: 3887

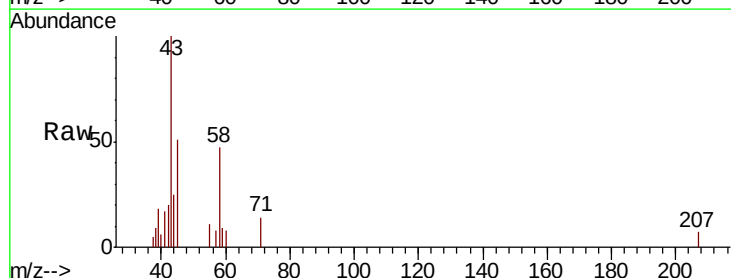
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 17.7 17.9 26.9#

61 0.0 17.0 25.4#



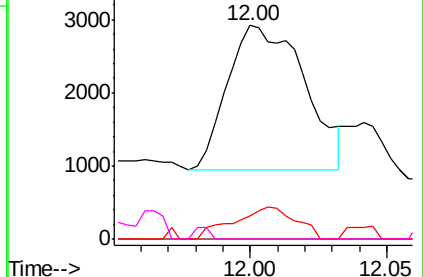
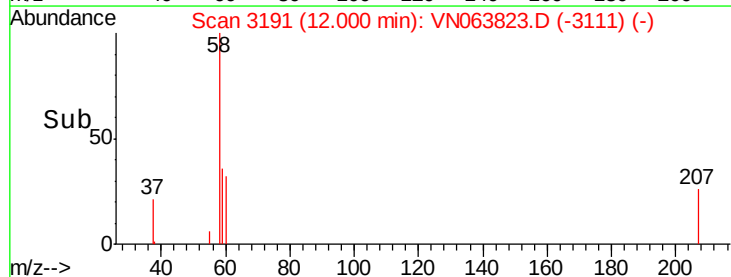
Abundance

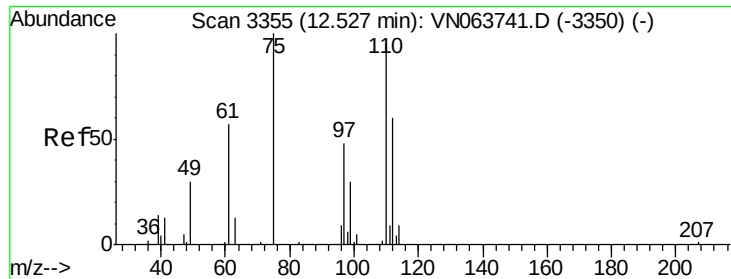
Ion 43.00 (42.70 to 43.70): VN0

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

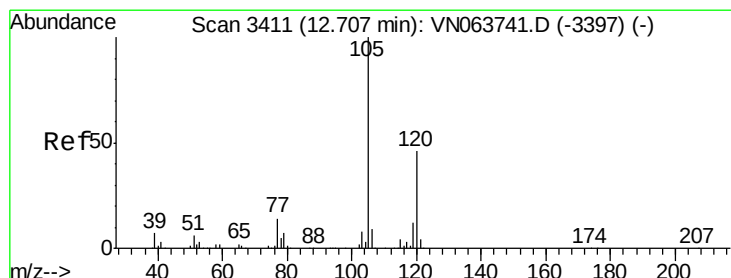
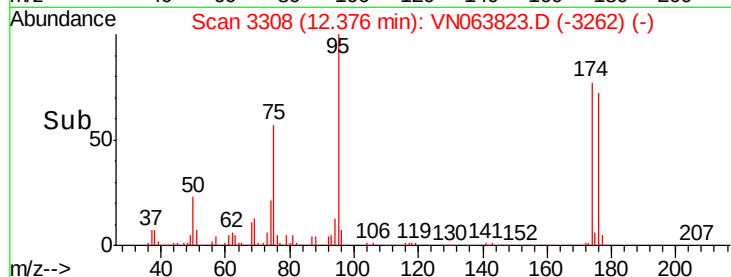
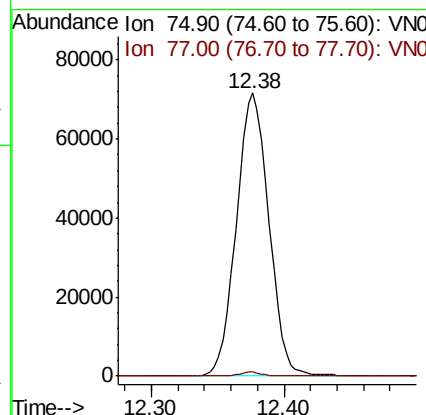
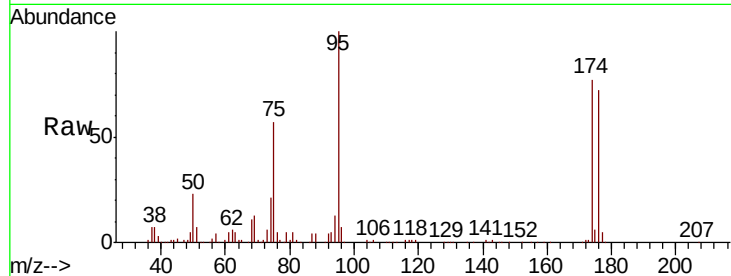




#76
 1,2,3-Trichloropropane
 Concen: 31.986 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063823.D
 Acq: 2 Oct 2020 15:56

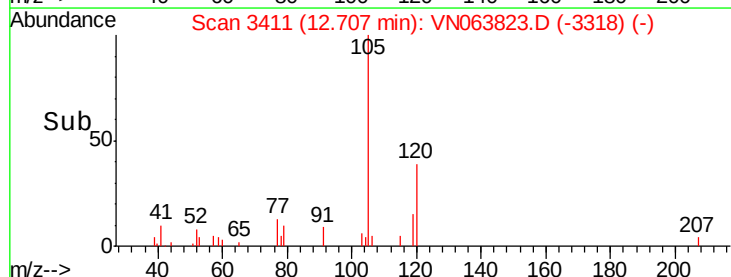
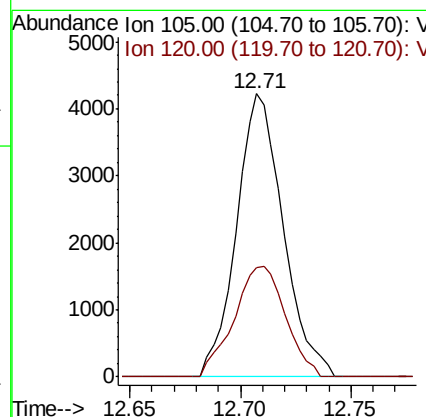
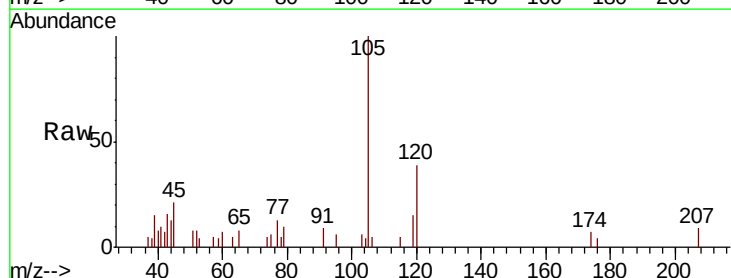
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#02

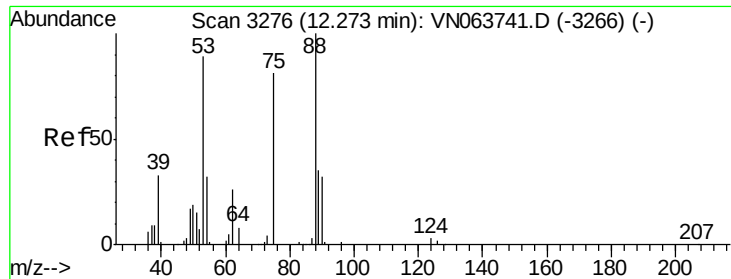
Tot Ion: 75 Resp: 121605
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.587 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN063823.D
 Acq: 2 Oct 2020 15:56

Tgt Ion: 105 Resp: 6195
 Ion Ratio Lower Upper
 105 100
 120 43.0 23.3 69.9





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.125 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063823.D
 Acq: 2 Oct 2020 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132030ZHE#02

Tot Ion: 75 Resp: 121605
 Ion Ratio Lower Upper
 75 100
 53 0.2 88.2 132.2#
 89 0.0 36.0 54.0#

