

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032020\
 Data File : VN060652.D
 Acq On : 20 Mar 2020 15:02
 Operator : JC/MD
 Sample : PB127692ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 20 23:24:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	194433	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	323158	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	303092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139074	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	126343	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
35) Dibromofluoromethane	7.56	113	95772	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
50) Toluene-d8	10.08	98	396748	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.40	95	149749	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4487	4.746	ug/l	97
18) Methyl Acetate	4.29	43	1650	0.620	ug/l #	54
20) Methylene Chloride	4.53	84	4223	1.816	ug/l	94
25) 2-Butanone	6.80	43	1305	0.853	ug/l #	50
31) Cyclohexane	7.64	56	3879	0.902	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15342	4.903	ug/l #	49
37) Ethyl Acetate	6.80	43	1305	0.386	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18798	6.703	ug/l #	16
43) Isopropyl Acetate	8.14	43	52545	9.423	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	985	0.395	ug/l #	43
48) Methyl methacrylate	9.16	41	2853	1.149	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4354	1.372	ug/l #	83
54) cis-1,3-Dichloropropene	9.89	75	22394	5.675	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3679	0.966	ug/l #	42
59) 2-Hexanone	10.75	43	56806	24.852	ug/l #	51
71) Bromoform	12.38	173	118	1.744	ug/l #	29
74) N-amyl acetate	12.02	43	2278	0.472	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	76160	25.379	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3123	0.353	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	76160	65.180	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	524	0.201	ug/l #	58

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

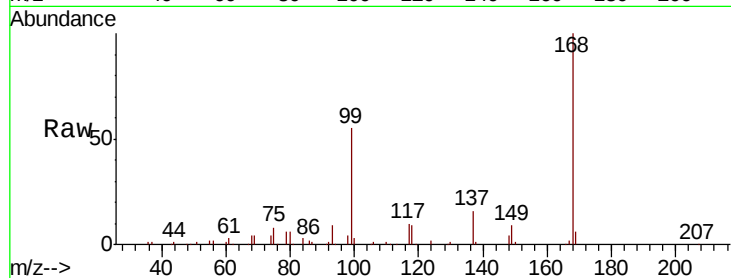
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 194433

Ion Ratio Lower Upper

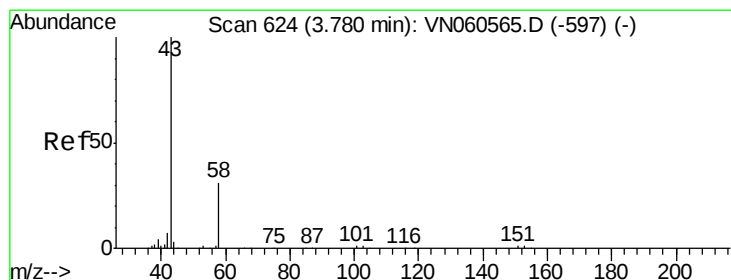
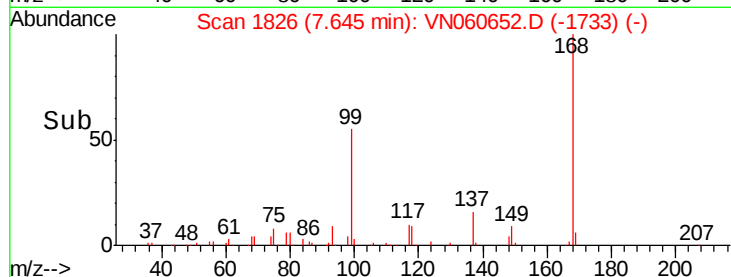
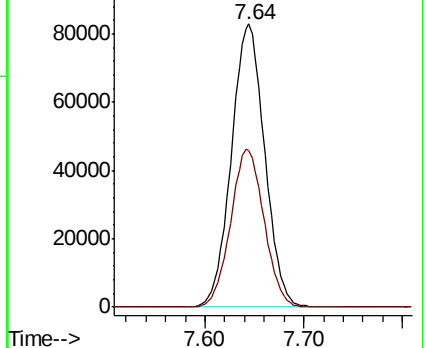
168 100

99 55.5 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 4.746 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060652.D

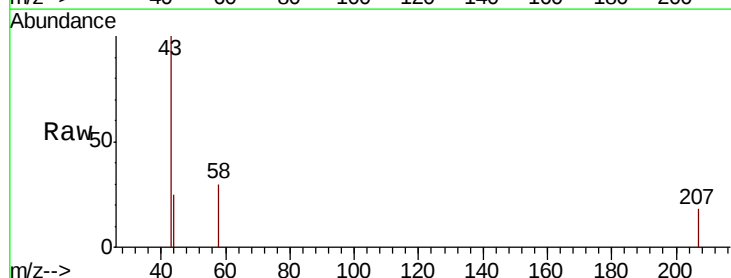
Acq: 20 Mar 2020 15:02

Tgt Ion: 43 Resp: 4487

Ion Ratio Lower Upper

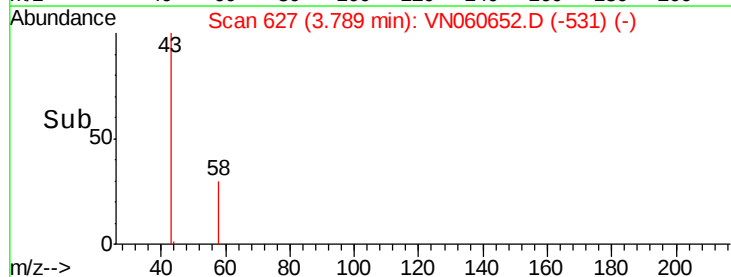
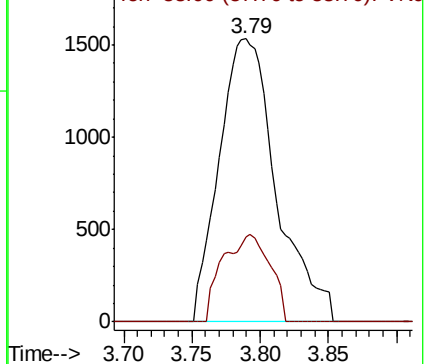
43 100

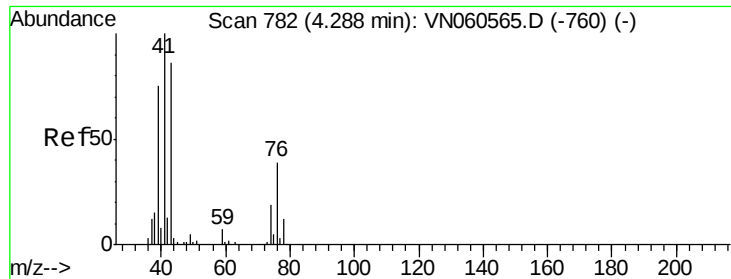
58 30.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

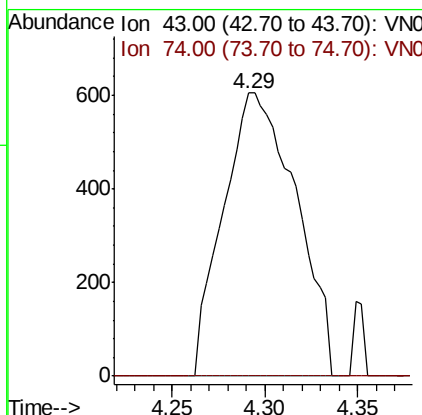
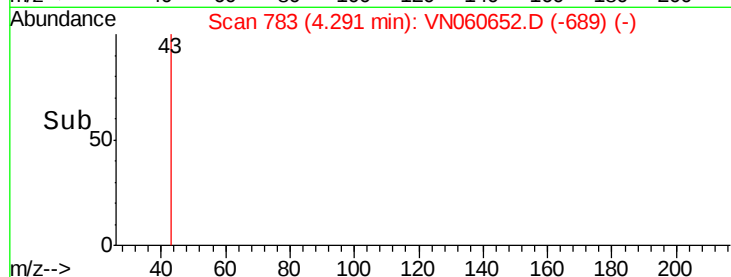
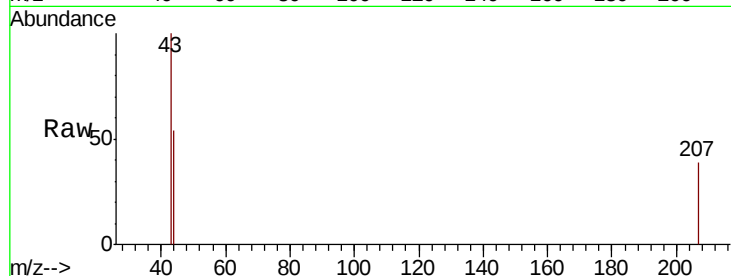




#18
Methyl Acetate
Concen: 0.620 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

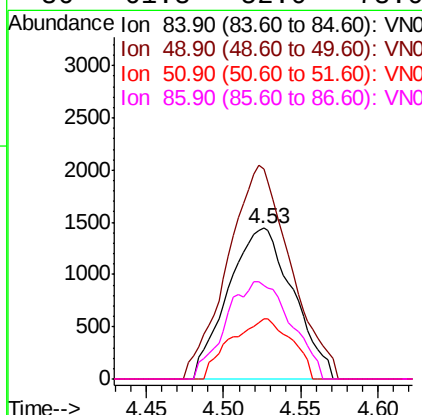
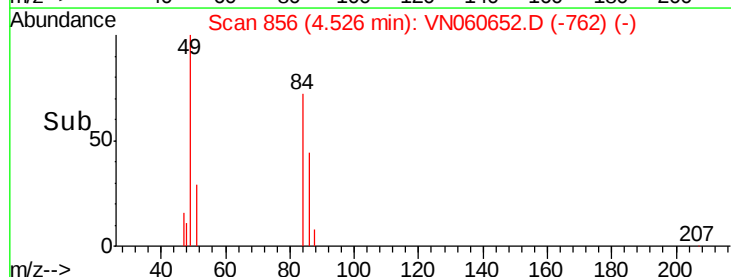
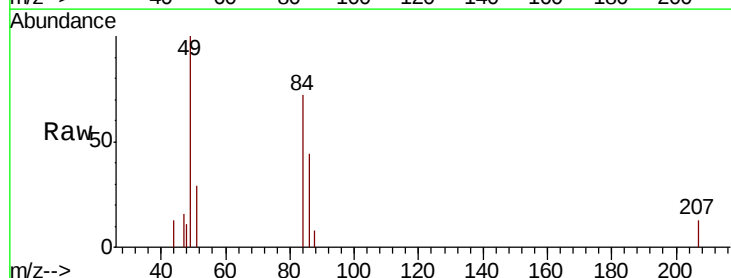
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1650
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.816 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

Tgt Ion: 84 Resp: 4223
Ion Ratio Lower Upper
84 100
49 139.6 103.3 154.9
51 39.9 31.6 47.4
86 61.8 52.0 78.0





#25

2-Butanone

Concen: 0.853 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

Instrument :

MSVOA_N

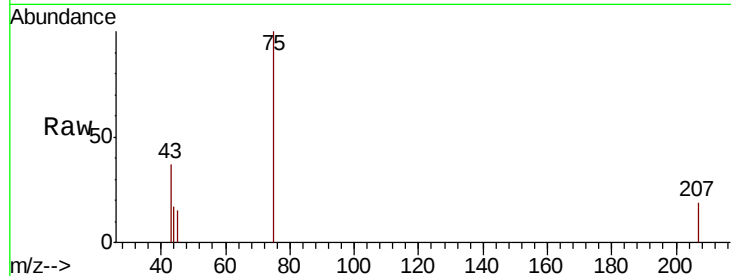
ClientSampled :

Tot Ion: 43 Resp: 1305

Ion Ratio Lower Upper

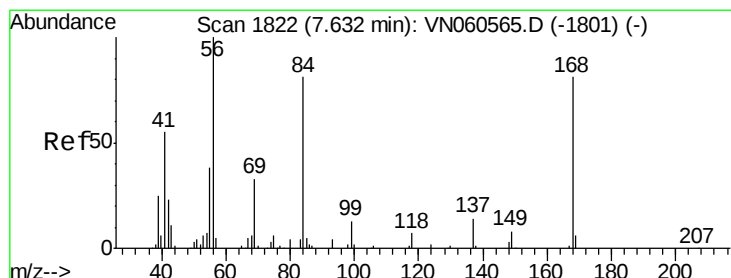
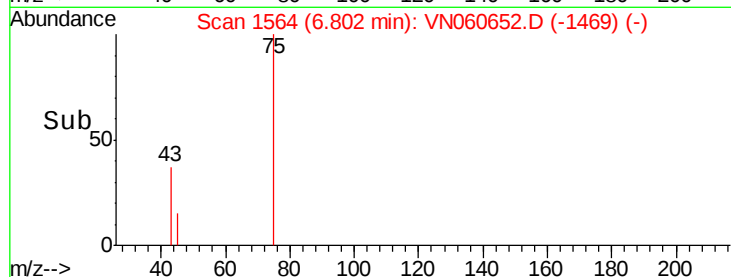
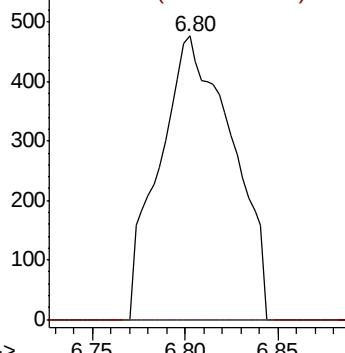
43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.902 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

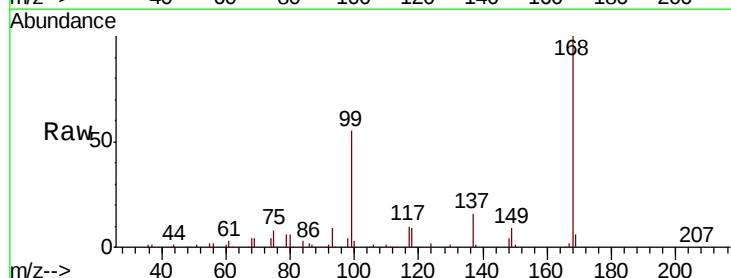
Tgt Ion: 56 Resp: 3879

Ion Ratio Lower Upper

56 100

69 182.1 26.6 40.0#

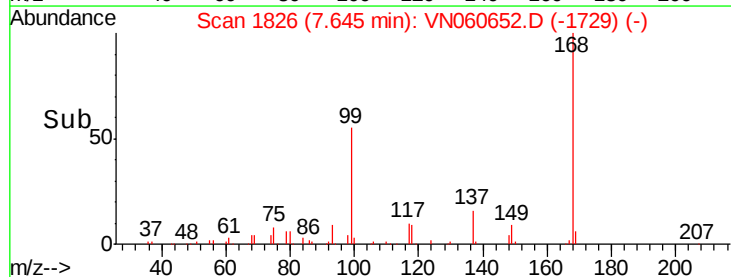
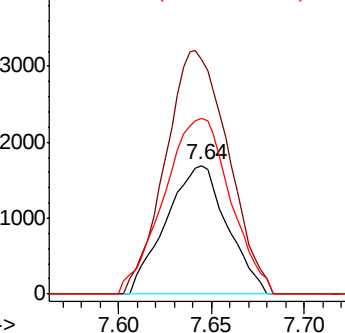
84 136.7 64.3 96.5#



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

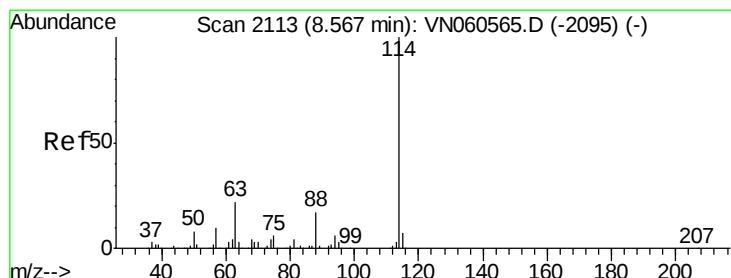
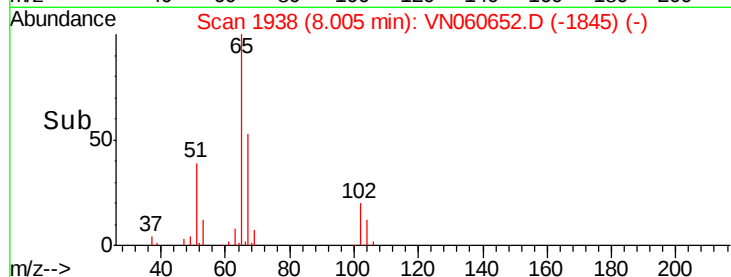
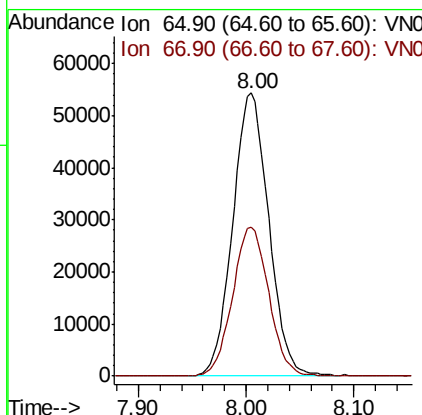
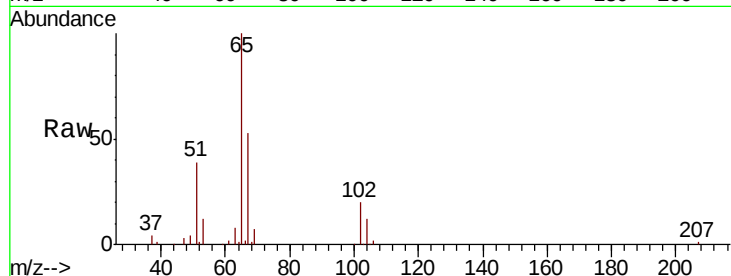




#33
 1,2-Dichloroethane-d4
 Concen: 47.335 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

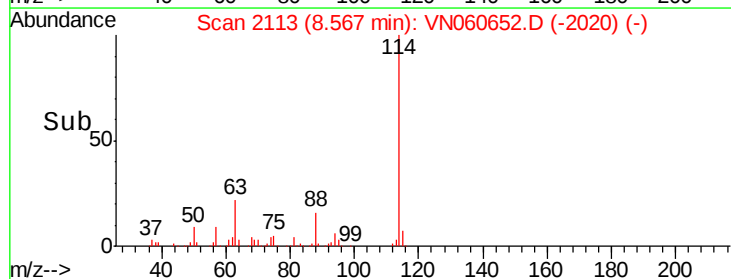
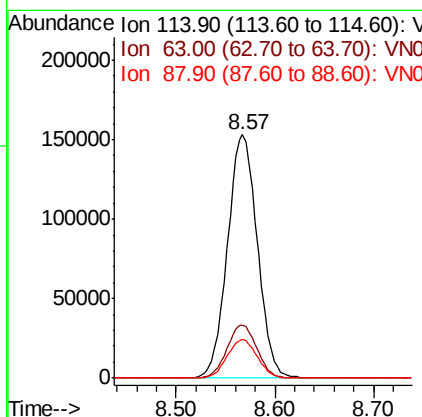
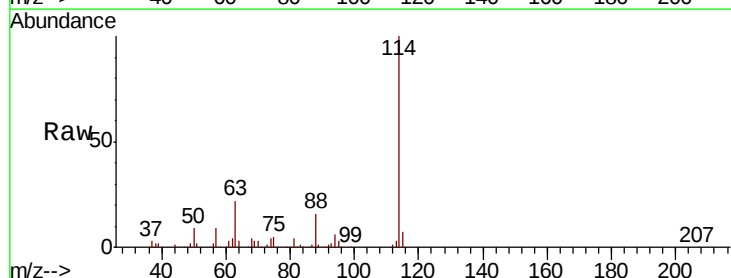
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 65 Resp: 126343
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

Tgt Ion: 114 Resp: 323158
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.8
 88 15.8 0.0 33.0

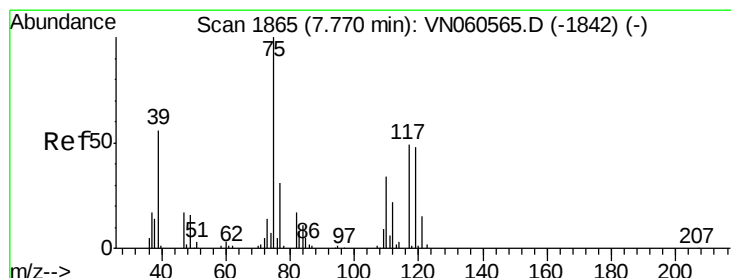
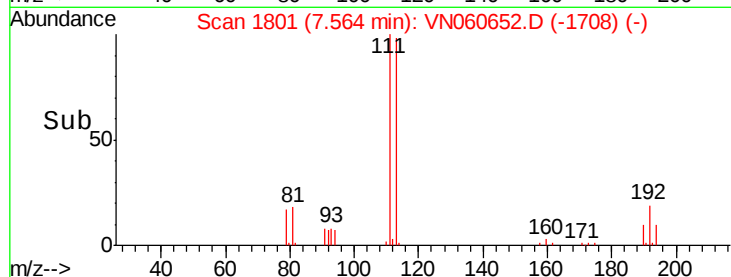
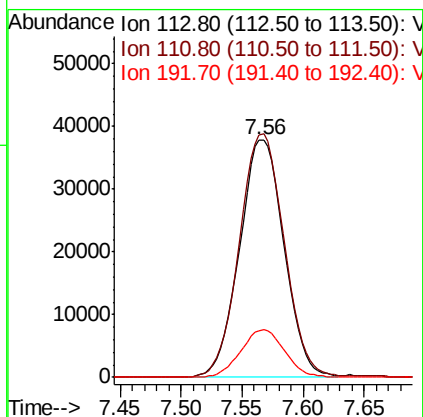
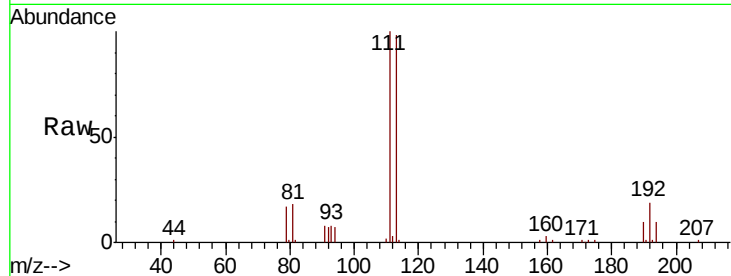




#35
 Dibromofluoromethane
 Concen: 49.012 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

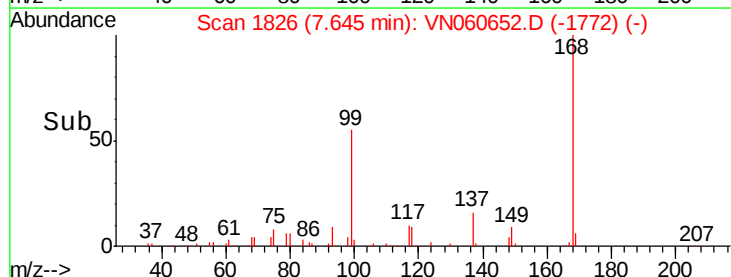
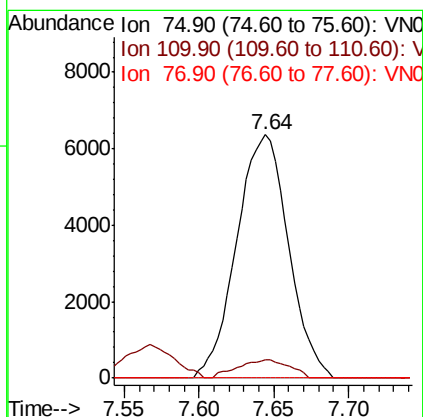
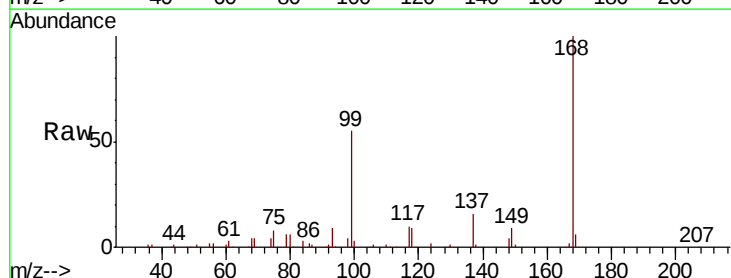
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 95772
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.9 124.3
 192 19.8 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.903 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

Tgt Ion: 75 Resp: 15342
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.9 50.6#
 77 0.0 24.6 36.8#

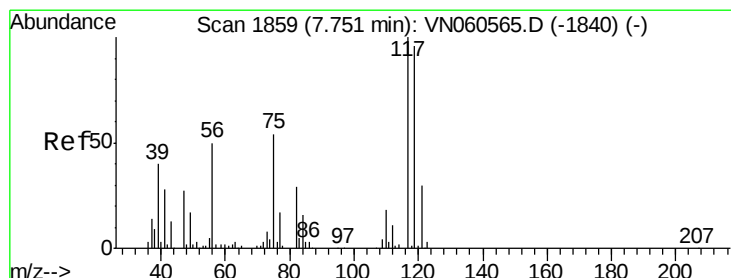
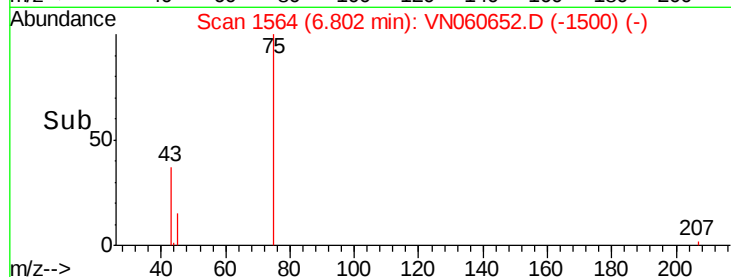
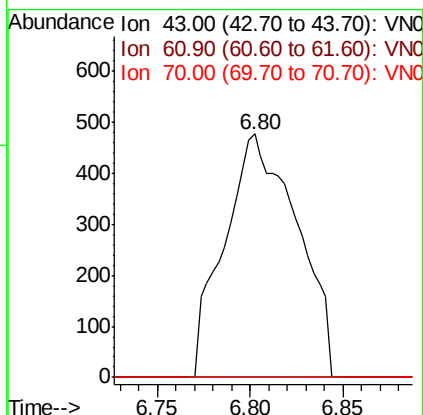
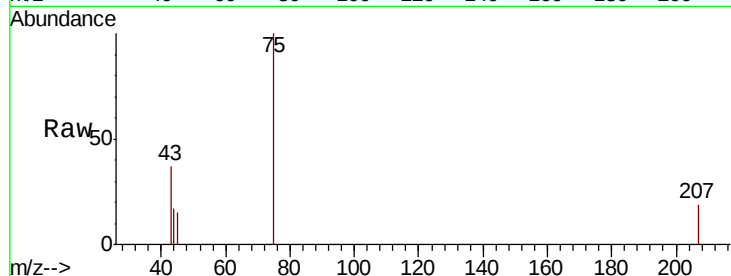




#37
Ethyl Acetate
Concen: 0.386 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

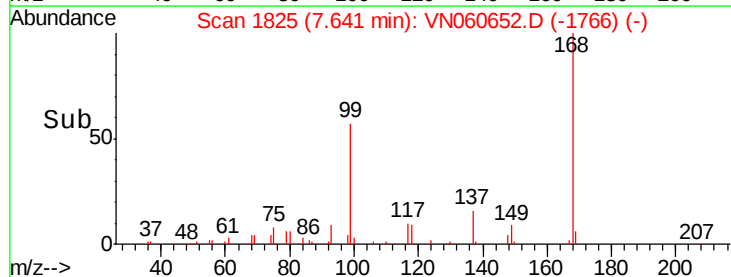
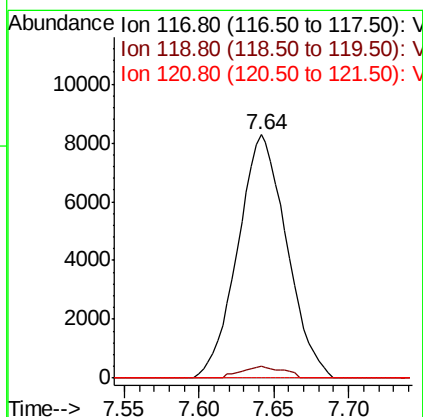
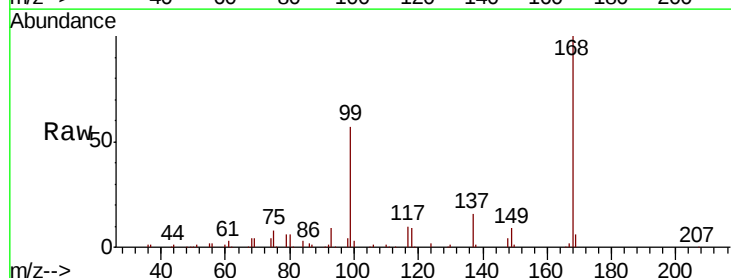
Instrument :
MSVOA_N
ClientSampleId :

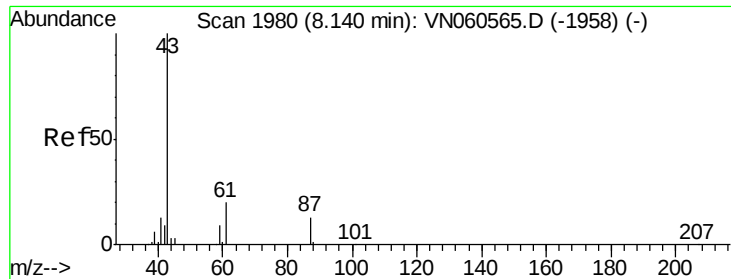
Tot Ion: 43 Resp: 1305
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.703 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

Tgt Ion: 117 Resp: 18798
Ion Ratio Lower Upper
117 100
119 4.8 76.2 114.2#
121 0.0 23.7 35.5#

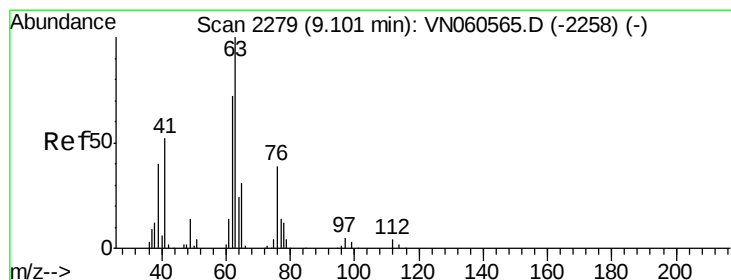
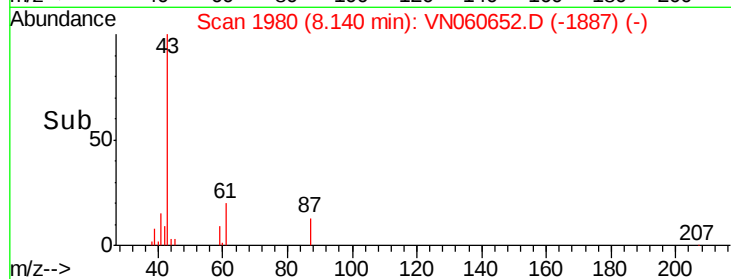
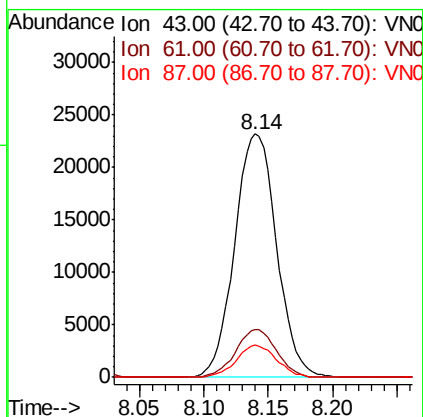
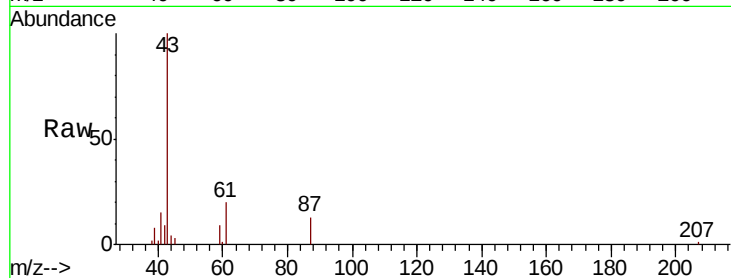




#43
Isopropyl Acetate
Concen: 9.423 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

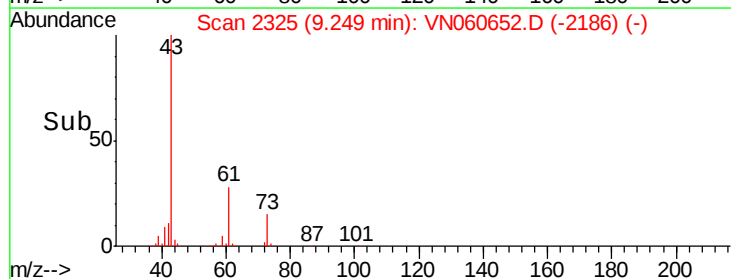
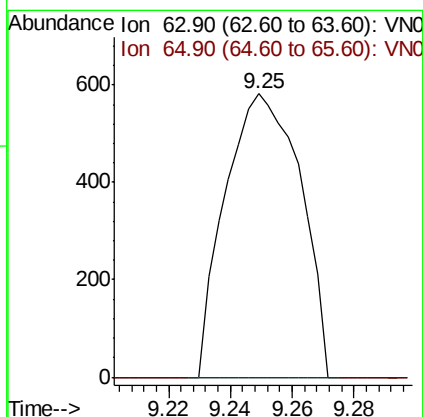
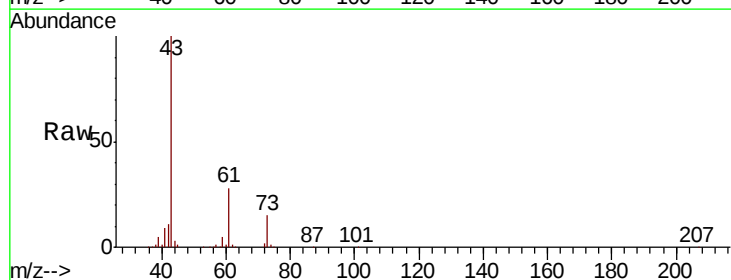
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 52545
Ion Ratio Lower Upper
43 100
61 19.1 20.7 31.1#
87 12.7 9.8 14.8



#45
1,2-Dichloropropane
Concen: 0.395 ug/l
RT: 9.25 min Scan# 2325
Delta R.T. 0.15 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

Tgt Ion: 63 Resp: 985
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#

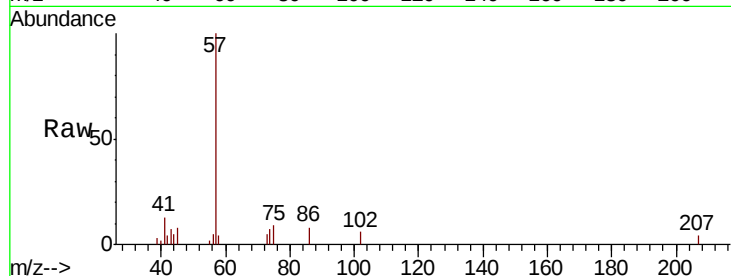




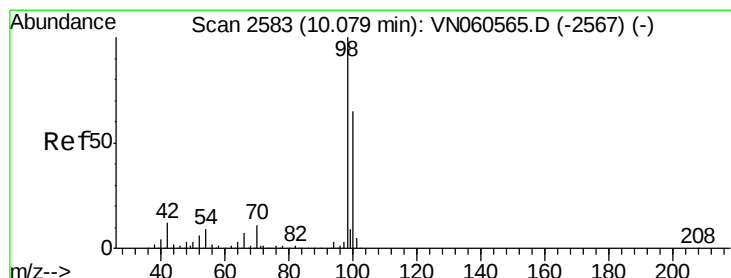
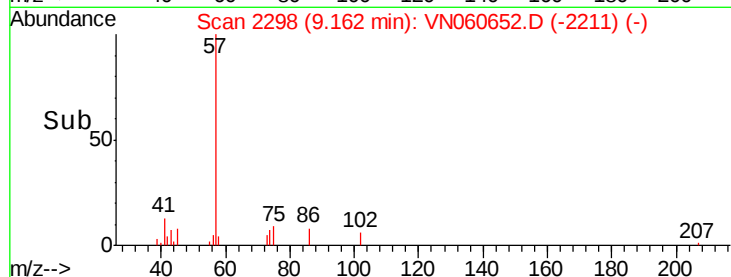
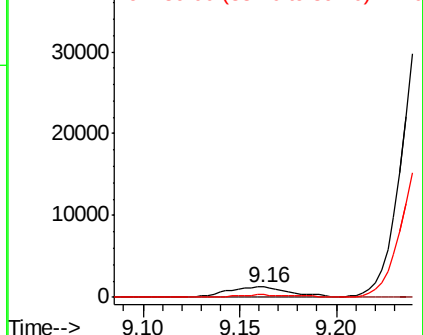
#48
Methvl methacrylate
Concen: 1.149 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2853
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

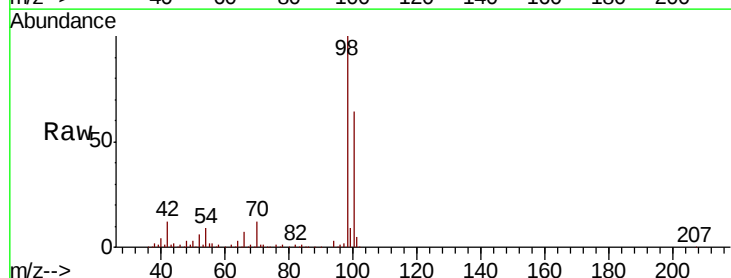


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

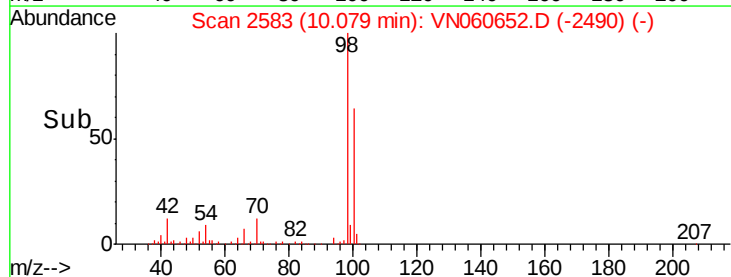
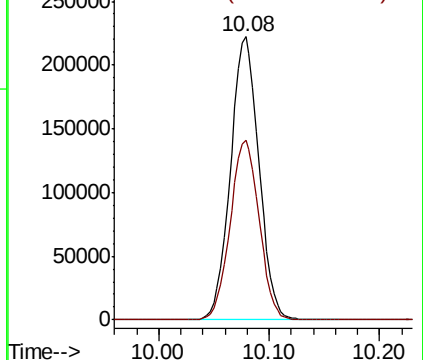


#50
Toluene-d8
Concen: 49.709 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060652.D
Acq: 20 Mar 2020 15:02

Tgt Ion: 98 Resp: 396748
Ion Ratio Lower Upper
98 100
100 64.7 51.8 77.8



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

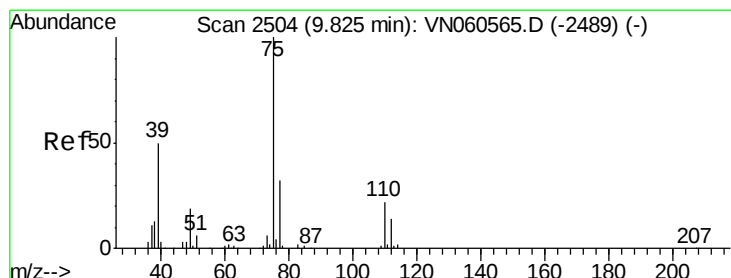
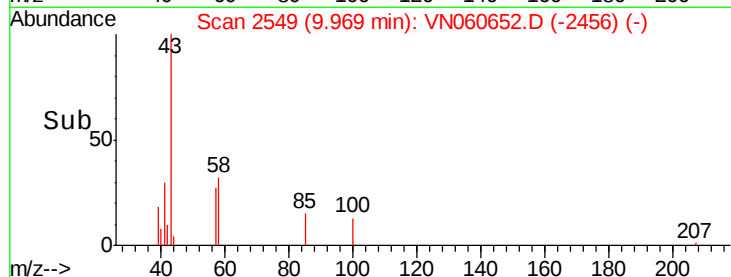
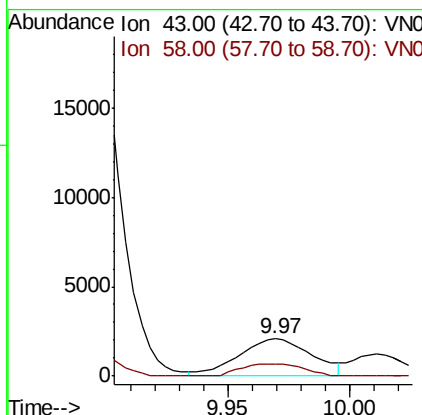
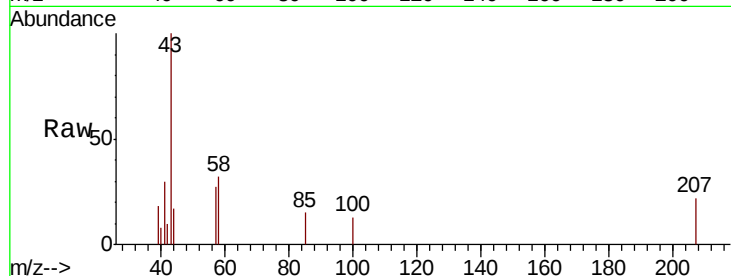




#51
 4-Methyl-2-Pentanone
 Concen: 1.372 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

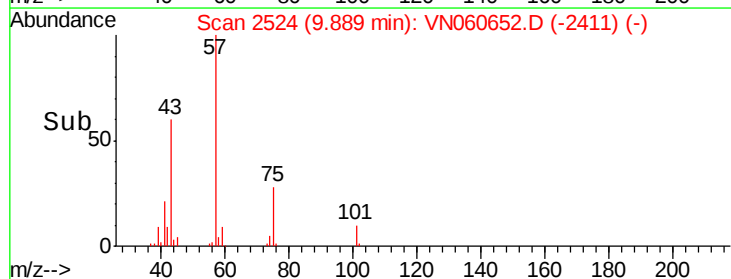
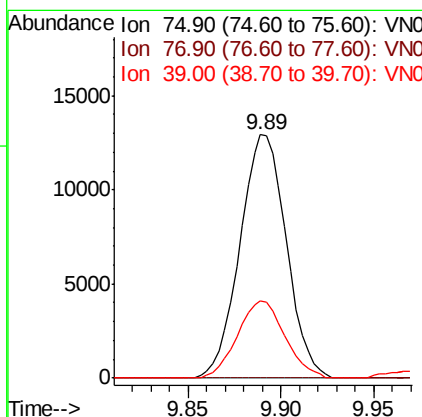
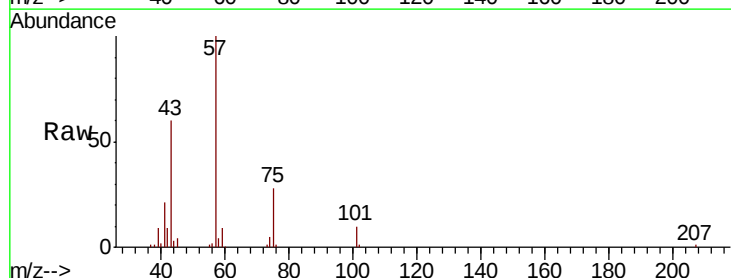
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 43 Resp: 4354
 Ion Ratio Lower Upper
 43 100
 58 28.2 30.8 46.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.675 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

Tgt Ion: 75 Resp: 22394
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.6 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.966 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

Instrument :

MSVOA_N

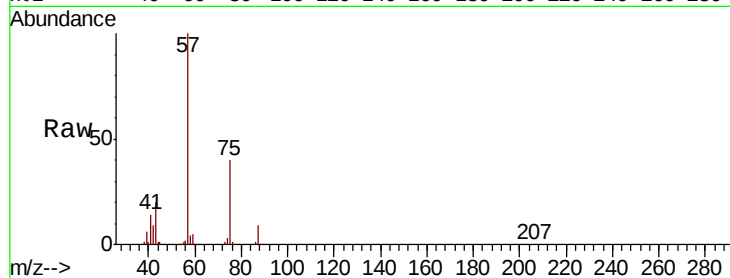
ClientSampled :

Tot Ion: 76 Resp: 3679

Ion Ratio Lower Upper

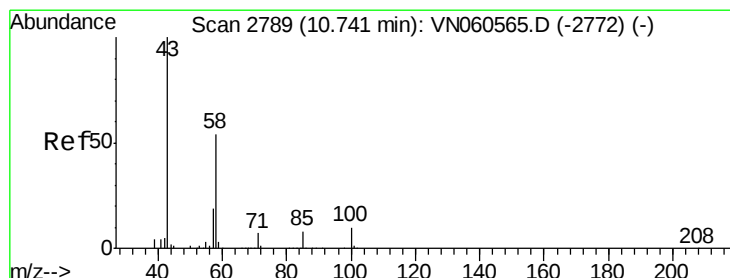
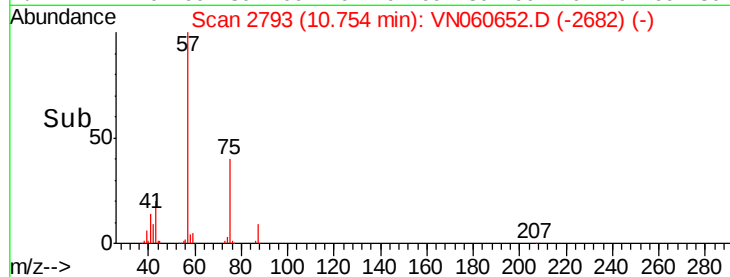
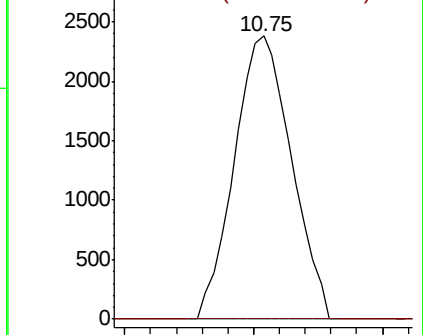
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 24.852 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060652.D

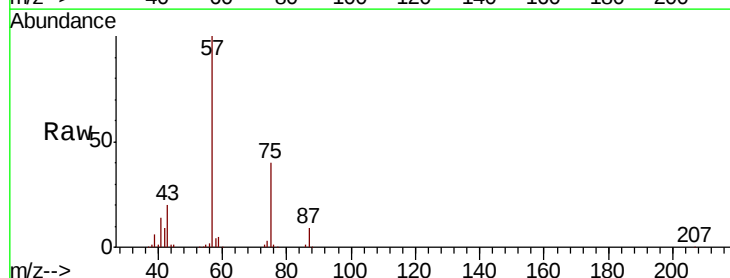
Acq: 20 Mar 2020 15:02

Tgt Ion: 43 Resp: 56806

Ion Ratio Lower Upper

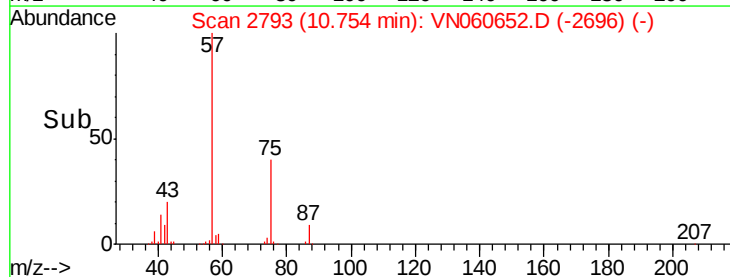
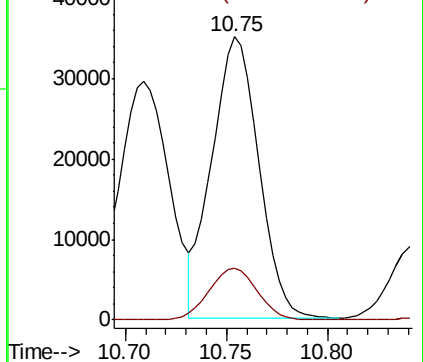
43 100

58 18.8 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.195 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

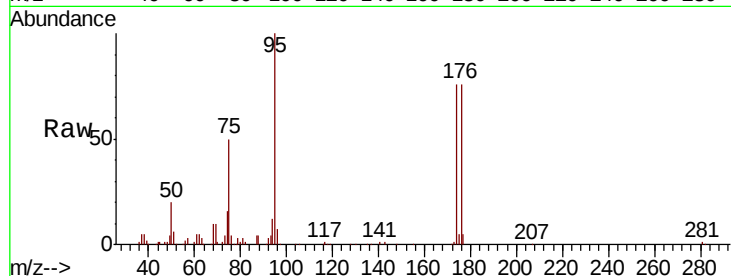
Tot Ion: 95 Resp: 149749

Ion Ratio Lower Upper

95 100

174 77.6 0.0 157.6

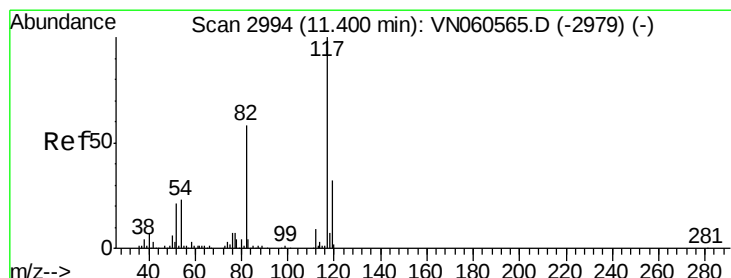
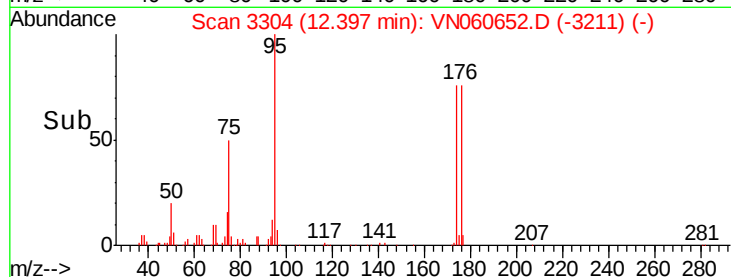
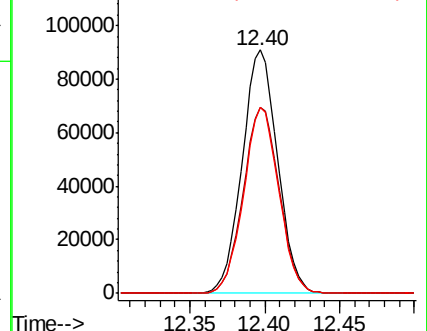
176 75.9 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060652.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060652.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060652.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

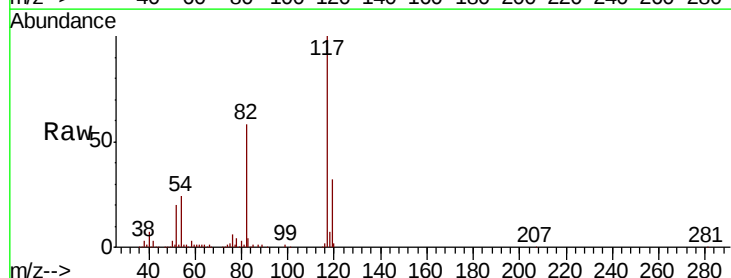
Tgt Ion: 117 Resp: 303092

Ion Ratio Lower Upper

117 100

82 58.0 46.7 70.1

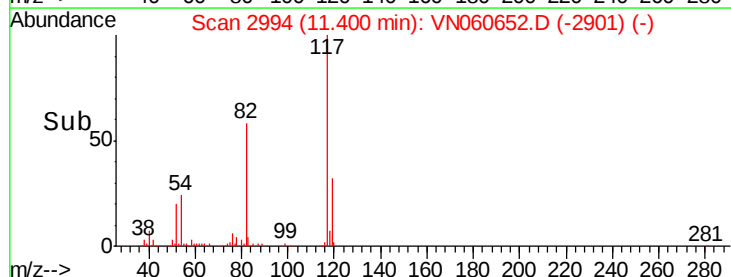
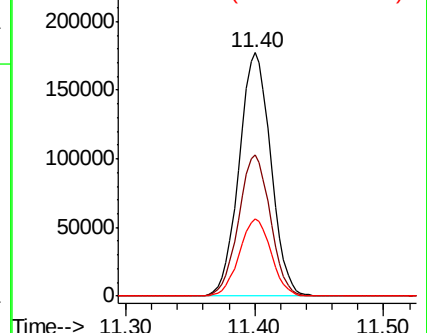
119 32.0 25.5 38.3

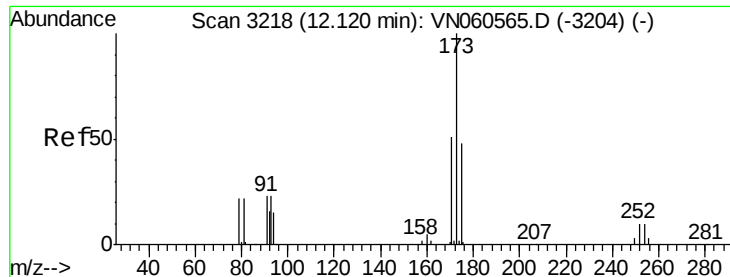


Abundance Ion 116.90 (116.60 to 117.60): VN060652.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060652.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060652.D (-2979) (-)





#71

Bromoform

Concen: 1.744 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

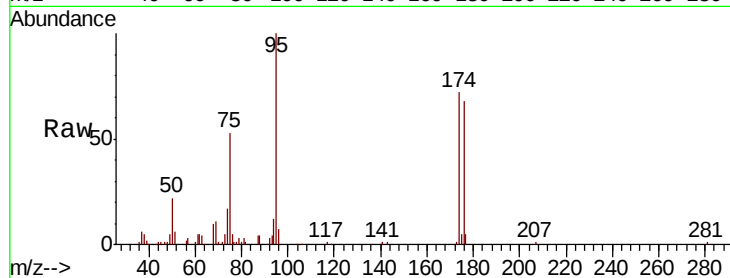
Tot Ion:173 Resp: 118

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.4#

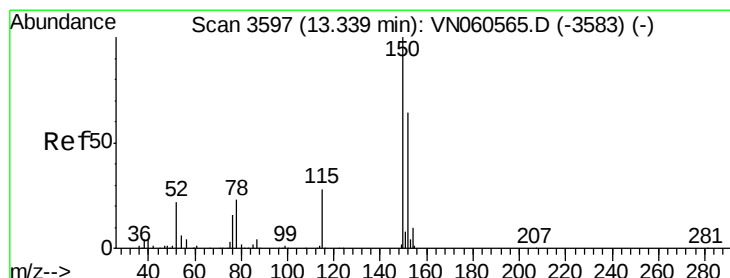
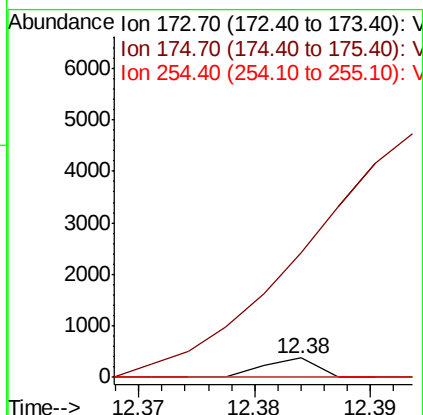
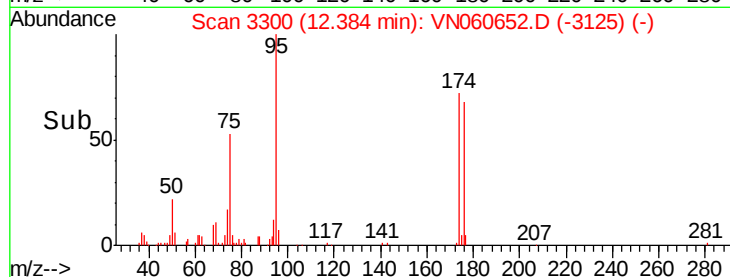
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

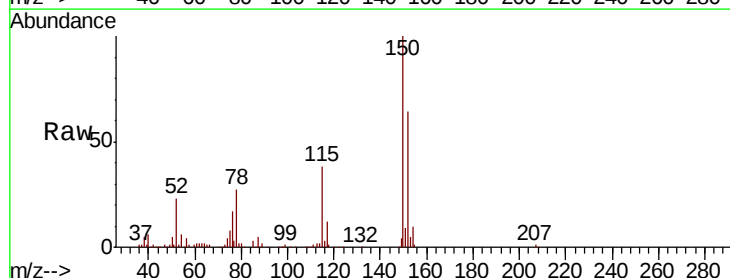
Tgt Ion:152 Resp: 139074

Ion Ratio Lower Upper

152 100

115 59.1 30.2 90.6

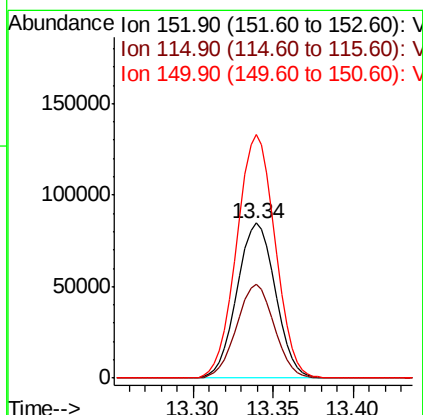
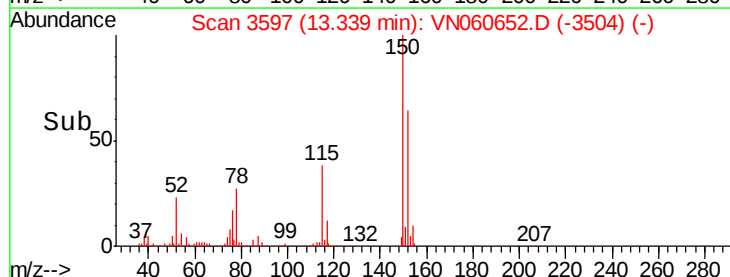
150 156.4 0.0 350.2



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-amvl acetate

Concen: 0.472 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060652.D

Acq: 20 Mar 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2278

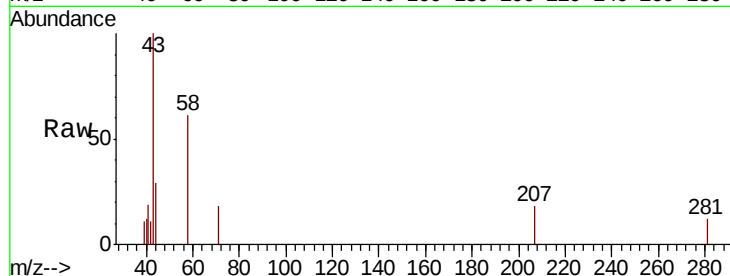
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

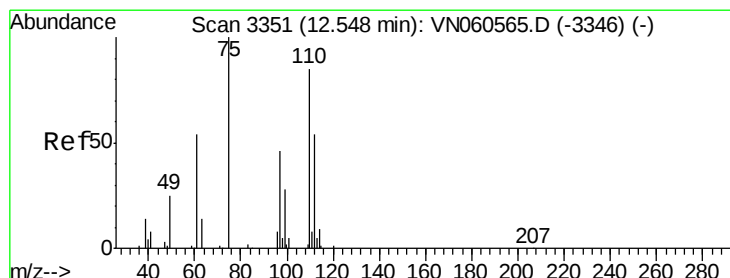
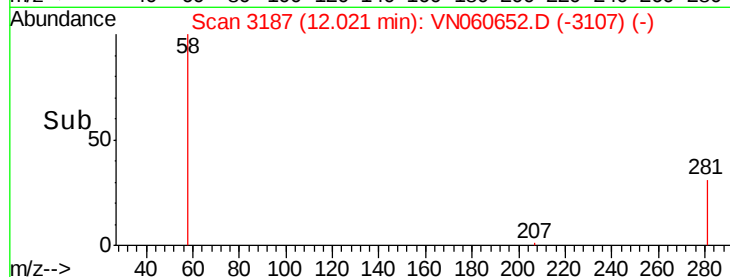
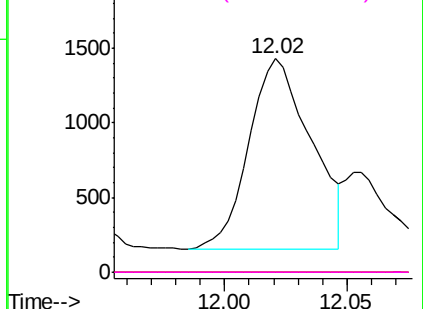


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.379 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060652.D

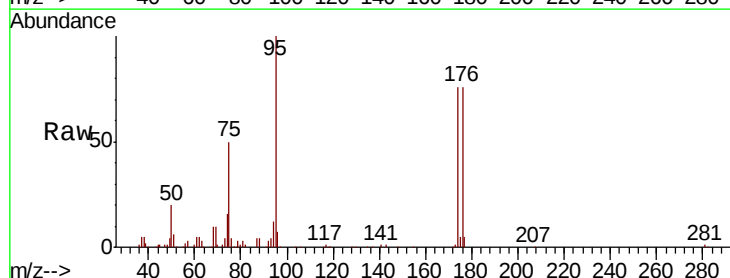
Acq: 20 Mar 2020 15:02

Tgt Ion: 75 Resp: 76160

Ion Ratio Lower Upper

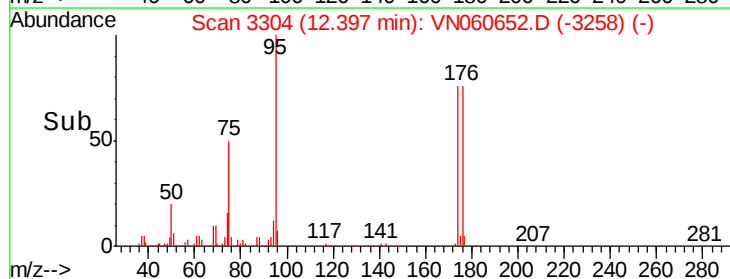
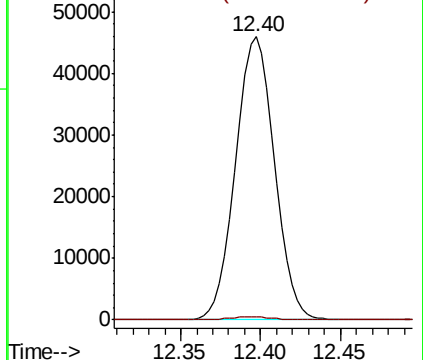
75 100

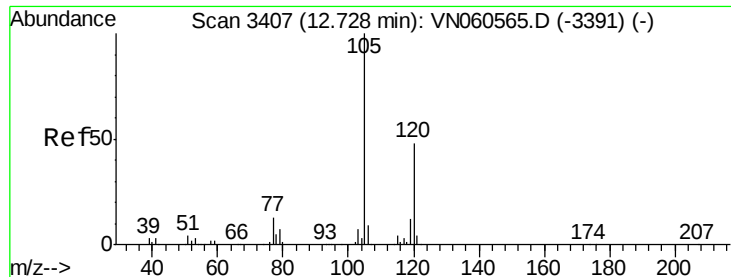
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

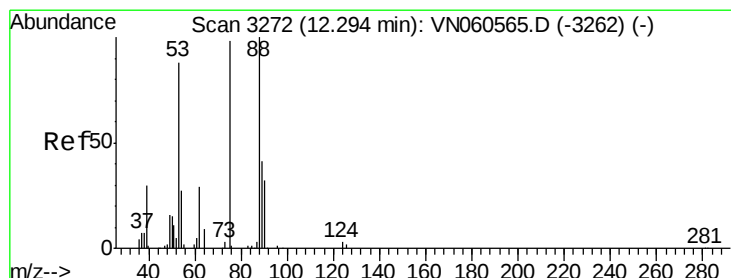
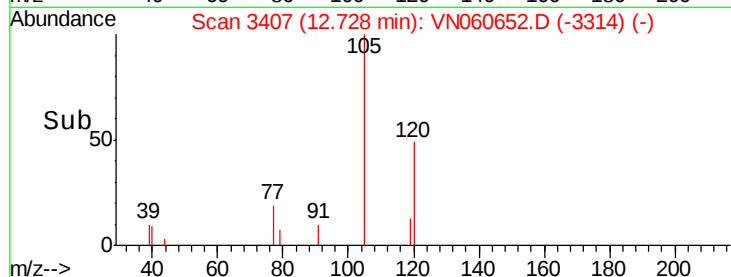
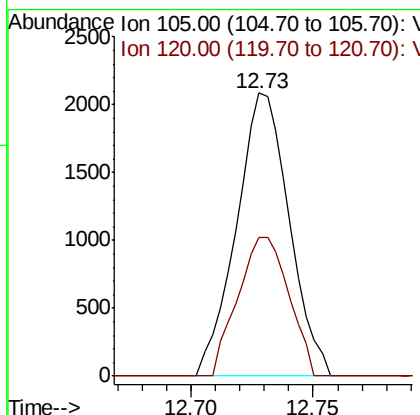
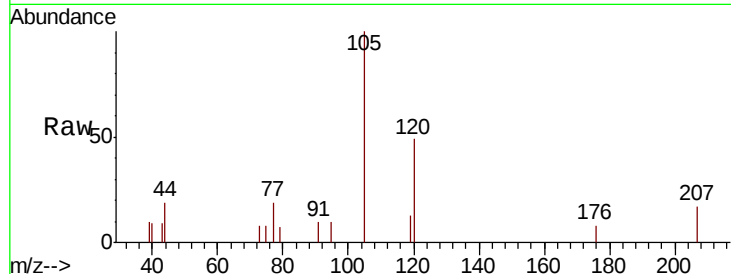




#80
 1,3,5-Trimethylbenzene
 Concen: 0.353 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

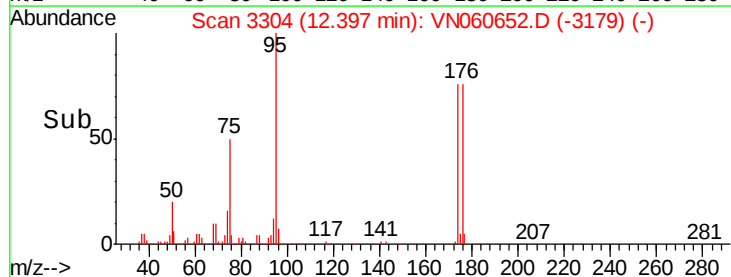
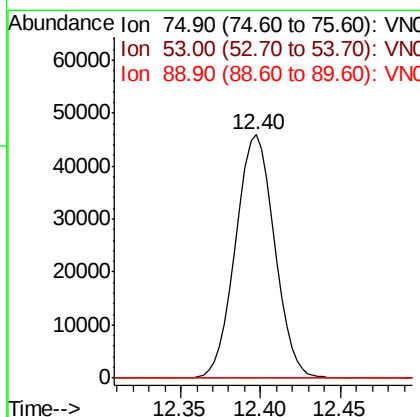
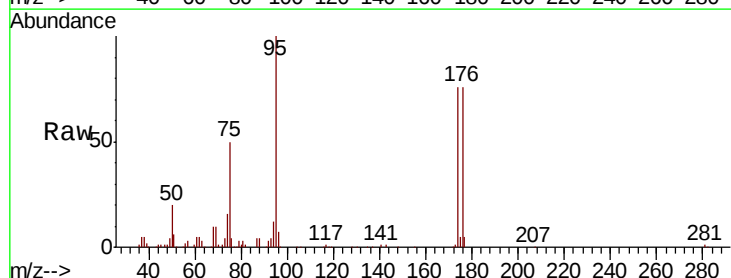
Instrument :
 MSVOA_N
 ClientSampled :

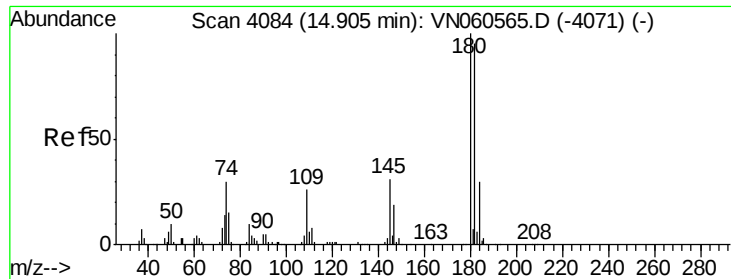
Tot Ion:105 Resp: 3123
 Ion Ratio Lower Upper
 105 100
 120 47.4 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.180 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

Tgt Ion: 75 Resp: 76160
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#





#93
 1,2,4-Trichlorobenzene
 Concen: 0.201 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060652.D
 Acq: 20 Mar 2020 15:02

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 524
 Ion Ratio Lower Upper
 180 100
 182 58.8 47.9 143.8
 145 0.0 15.4 46.2#

