

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060680.D
 Acq On : 24 Mar 2020 18:16
 Operator : JC/MD
 Sample : L1994-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:56:50 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	200374	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	333009	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	314308	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148522	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	130703	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	
35) Dibromofluoromethane	7.57	113	98184	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
50) Toluene-d8	10.08	98	412923	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	12.40	95	155139	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	

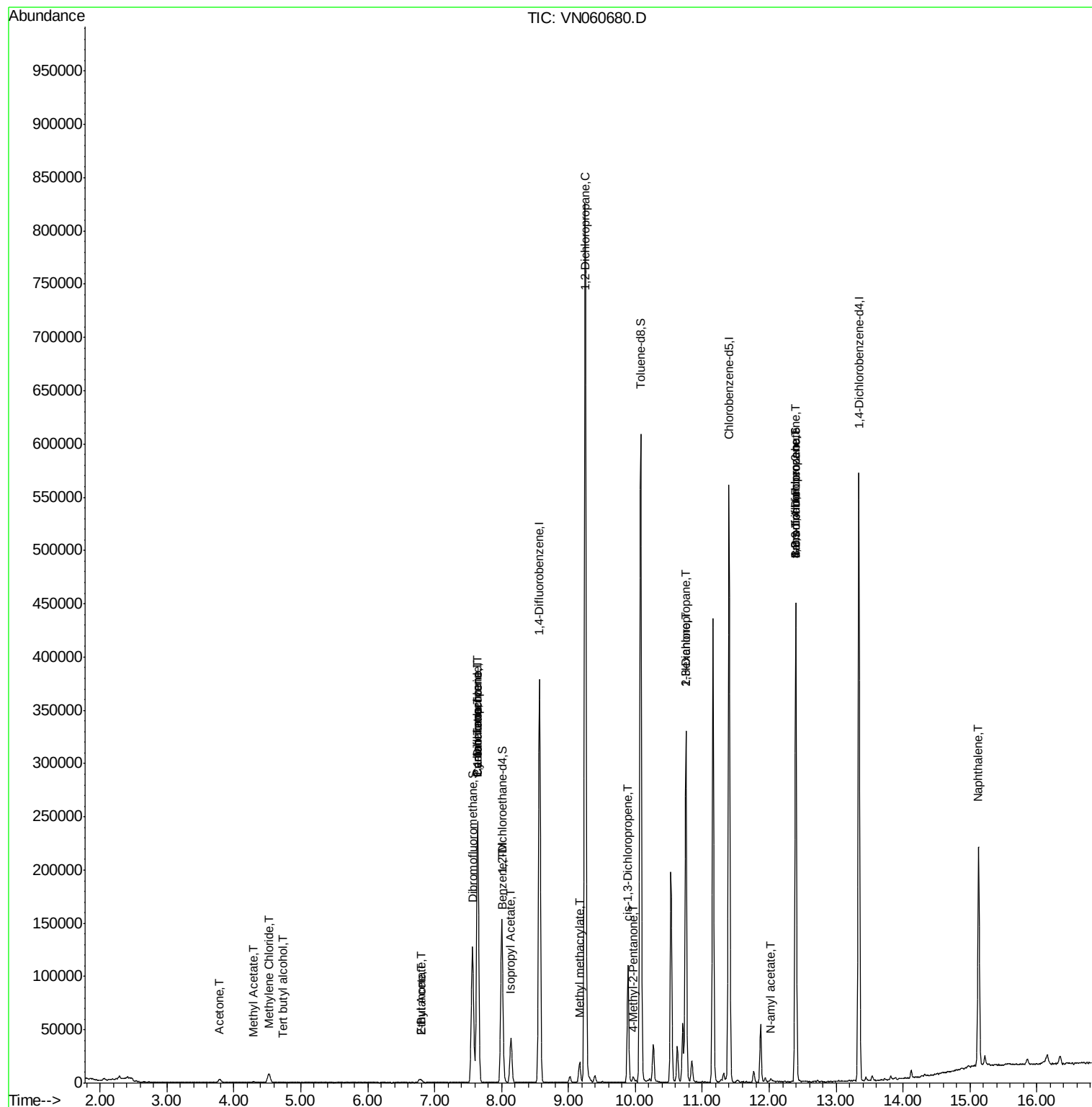
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	91	0.225	ug/l #	72
16) Acetone	3.79	43	6168	6.330	ug/l	91
18) Methyl Acetate	4.29	43	1612	0.588	ug/l #	66
20) Methylene Chloride	4.53	84	6724	2.805	ug/l	94
25) 2-Butanone	6.81	43	2782	1.764	ug/l	99
31) Cyclohexane	7.64	56	4145	0.936	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15897	4.930	ug/l #	50
37) Ethyl Acetate	6.81	43	2782	0.798	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19517	6.753	ug/l #	17
40) Benzene	8.02	78	2340	0.240	ug/l	96
43) Isopropyl Acetate	8.14	43	49471	8.609	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	921	0.359	ug/l #	43
48) Methyl methacrylate	9.16	41	2742	1.072	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3823	1.169	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	19535	4.804	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3360	0.856	ug/l #	42
59) 2-Hexanone	10.75	43	49098	20.845	ug/l #	52
71) Bromoform	12.40	173	822	2.104	ug/l #	1
74) N-amyl acetate	12.02	43	2647	0.514	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	78734	24.568	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78734	63.097	ug/l #	13
95) Naphthalene	15.13	128	176114	21.051	ug/l	99

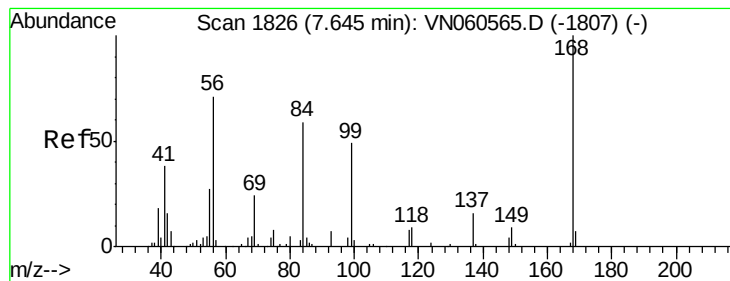
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

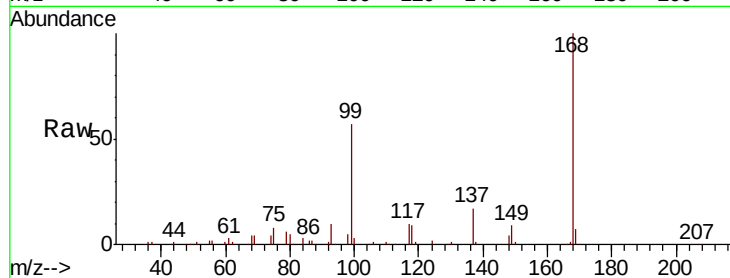
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 200374

Ion Ratio Lower Upper

168 100

99 56.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

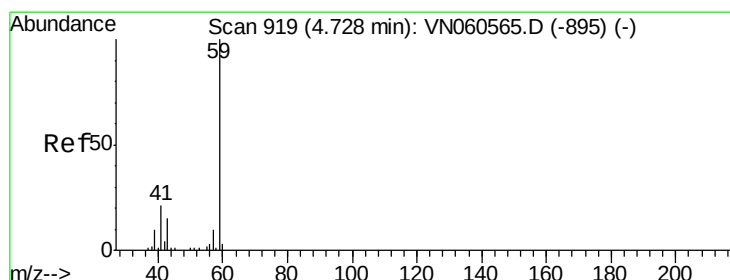
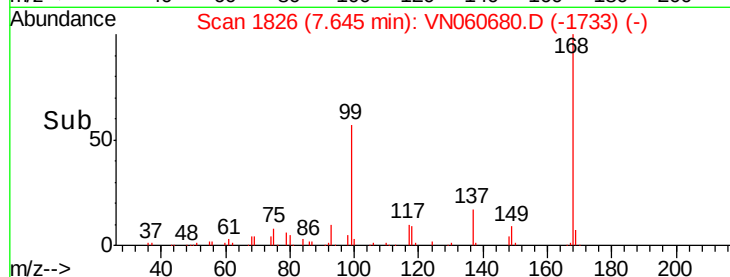
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.225 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN060680.D

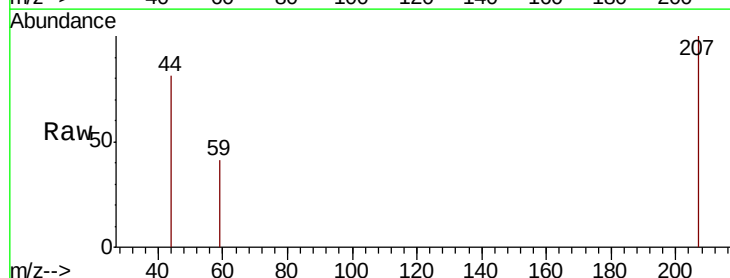
Acq: 24 Mar 2020 18:16

Tgt Ion: 59 Resp: 91

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

150

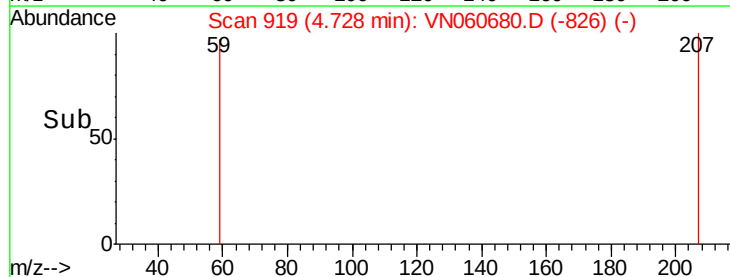
100

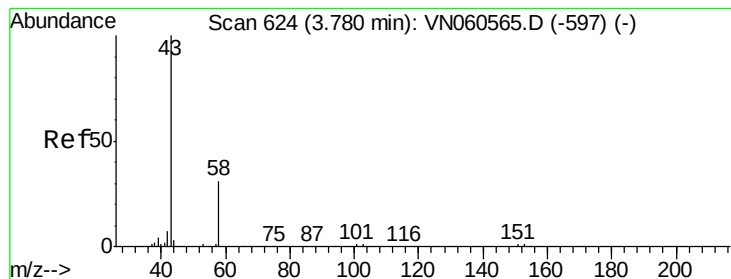
50

0

4.71 4.72 4.73 4.74

Time-->





#16

Acetone

Concen: 6.330 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :

MSVOA_N

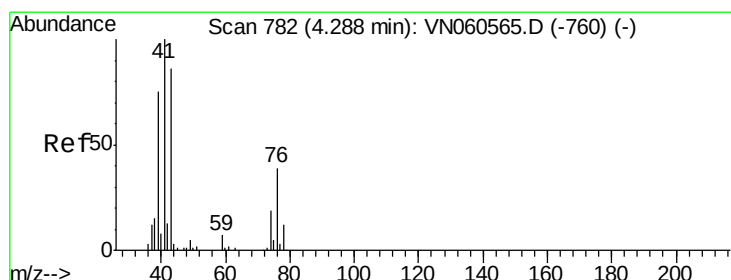
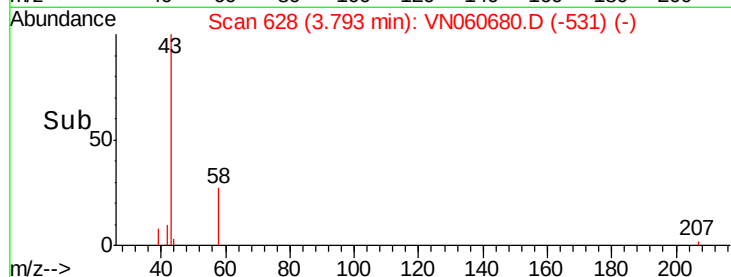
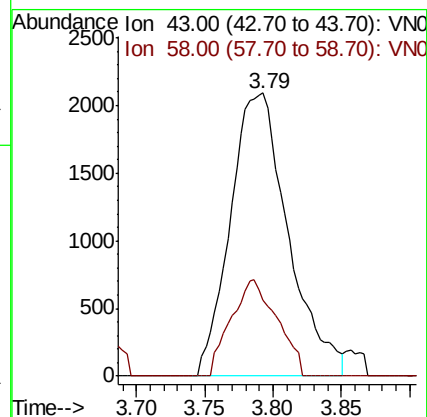
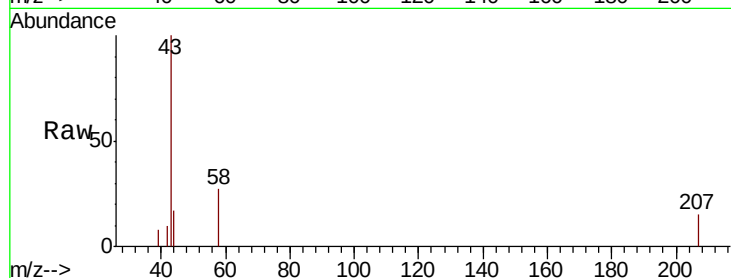
ClientSampleId :

Tot Ion: 43 Resp: 6168

Ion Ratio Lower Upper

43 100

58 26.6 25.1 37.7



#18

Methyl Acetate

Concen: 0.588 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060680.D

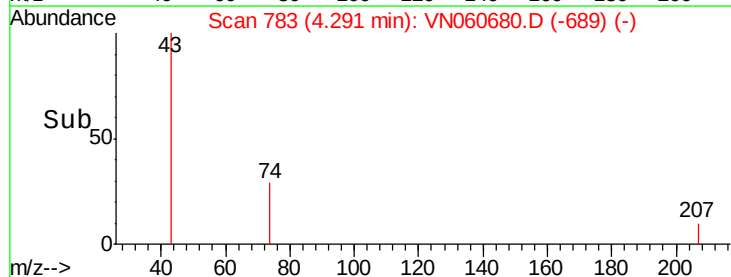
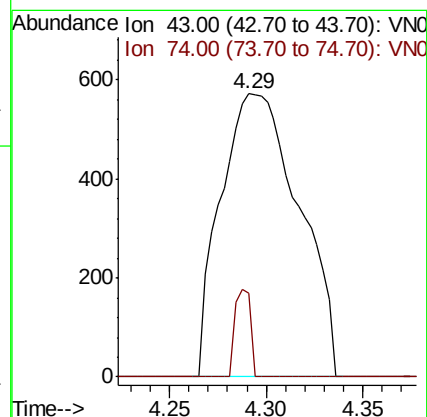
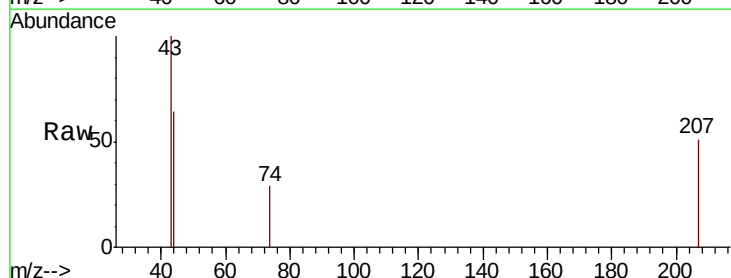
Acq: 24 Mar 2020 18:16

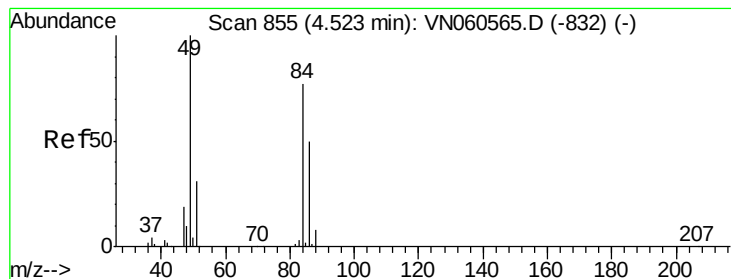
Tgt Ion: 43 Resp: 1612

Ion Ratio Lower Upper

43 100

74 6.0 17.5 26.3#





#20

Methvlene Chloride

Concen: 2.805 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 6724

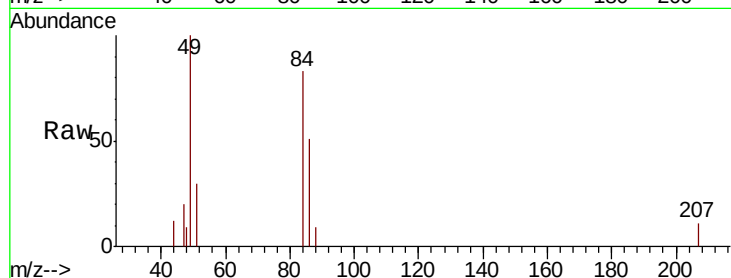
Ion Ratio Lower Upper

84 100

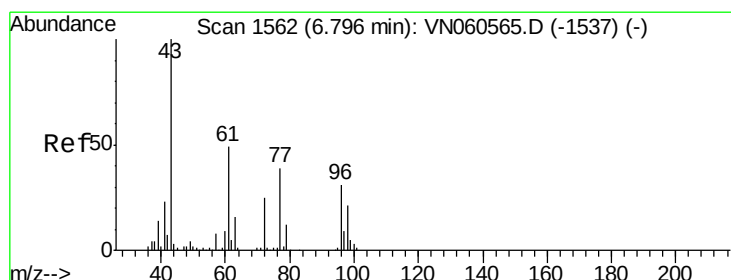
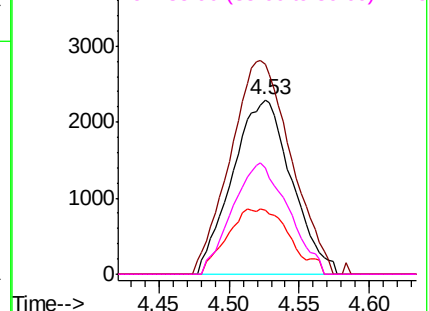
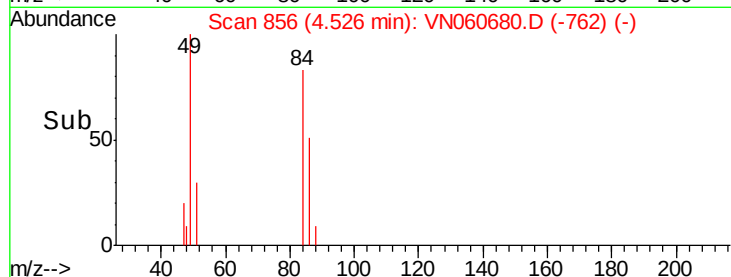
49 120.5 103.3 154.9

51 36.3 31.6 47.4

86 61.1 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.764 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.02 min

Lab File: VN060680.D

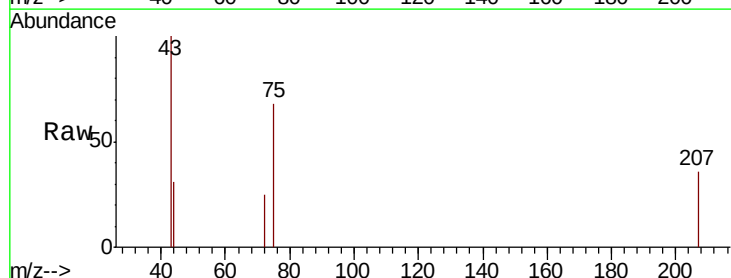
Acq: 24 Mar 2020 18:16

Tgt Ion: 43 Resp: 2782

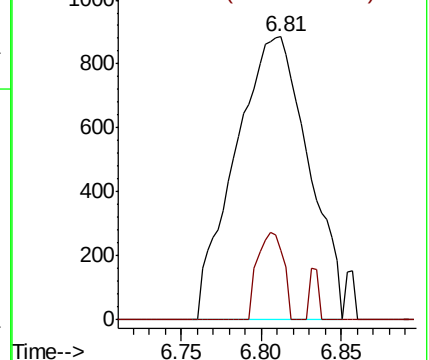
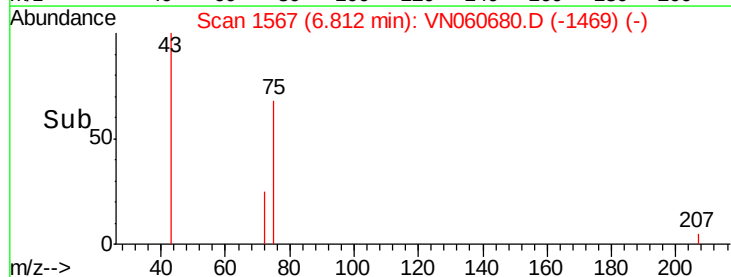
Ion Ratio Lower Upper

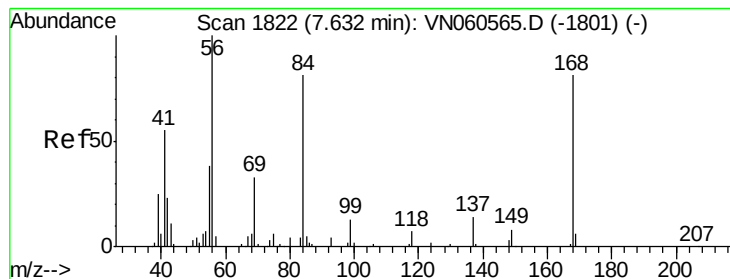
43 100

72 24.7 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: 0.936 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :
MSVOA_N
ClientSampled :

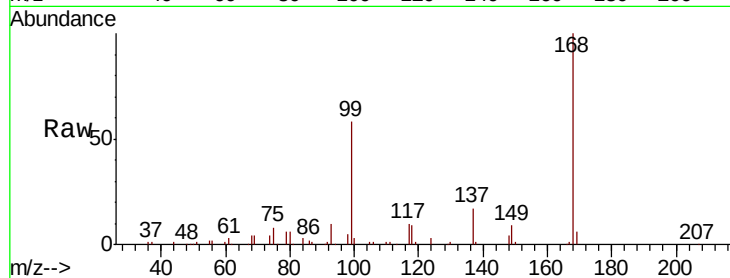
Tot Ion: 56 Resp: 4145

Ion Ratio Lower Upper

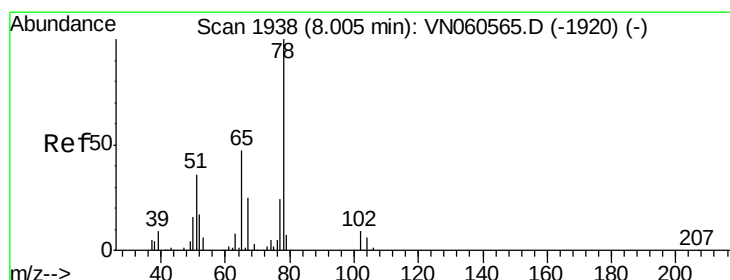
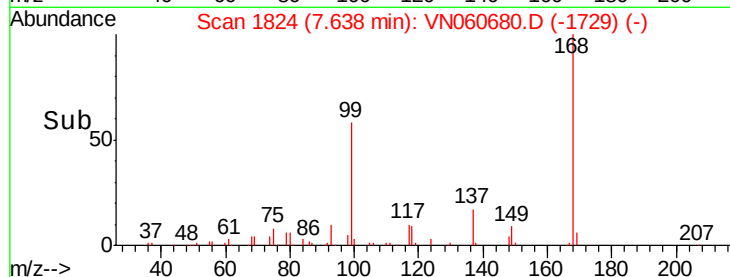
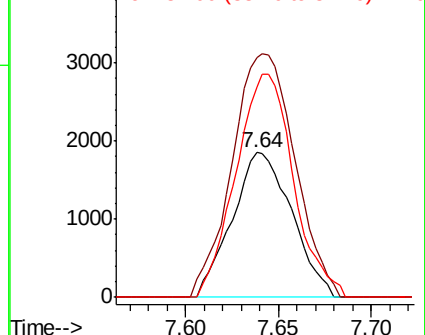
56 100

69 165.6 26.6 40.0#

84 145.0 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: 47.517 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060680.D

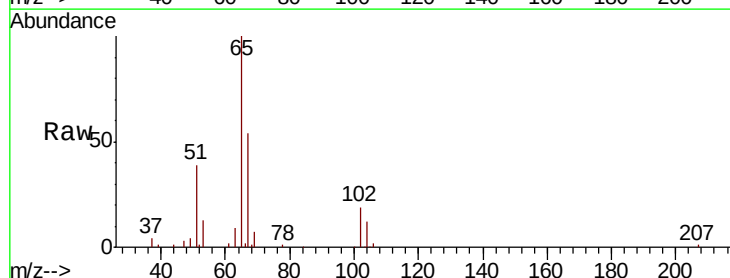
Acq: 24 Mar 2020 18:16

Tgt Ion: 65 Resp: 130703

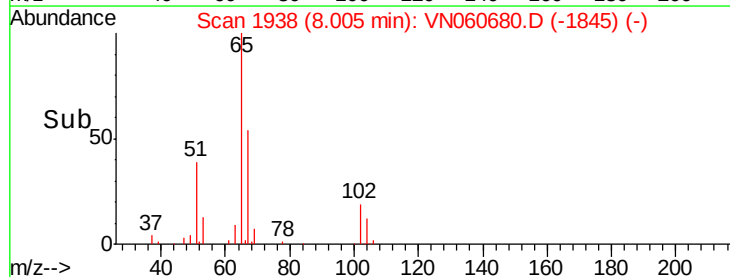
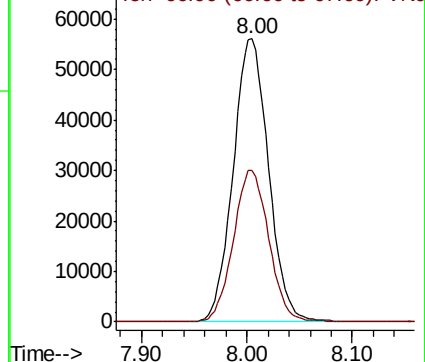
Ion Ratio Lower Upper

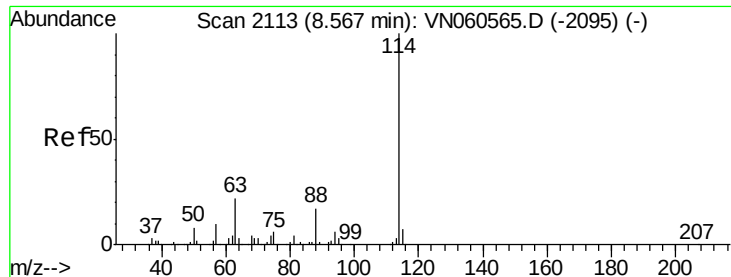
65 100

67 53.6 0.0 107.6



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

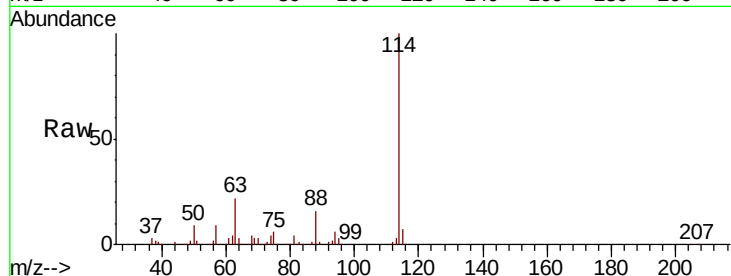




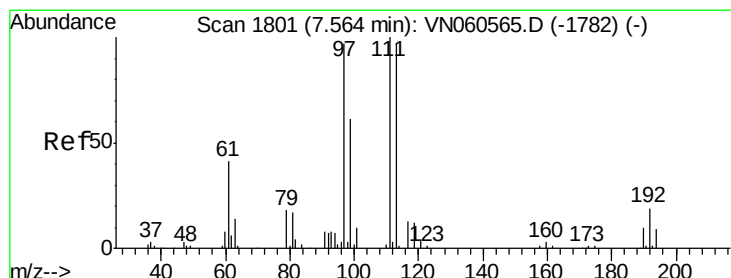
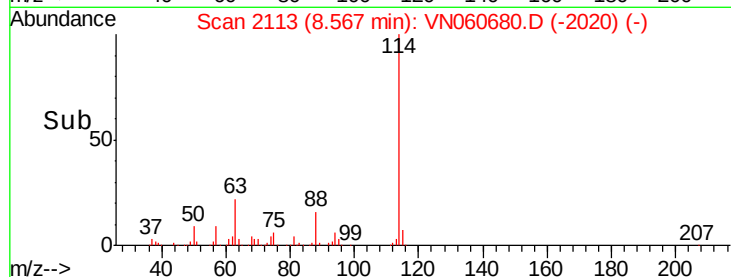
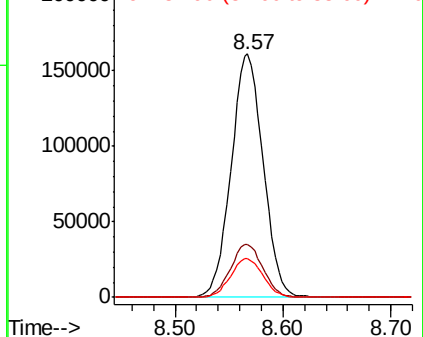
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060680.D
 Acq: 24 Mar 2020 18:16

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 333009
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.8
 88 15.9 0.0 33.0

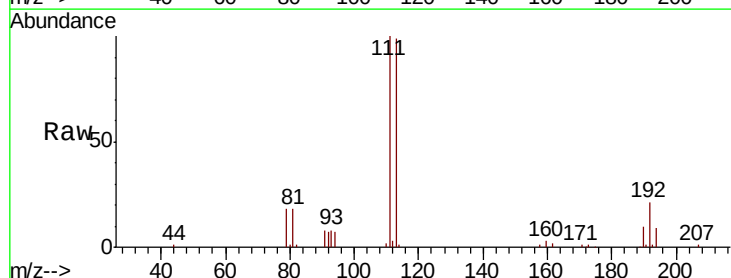


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

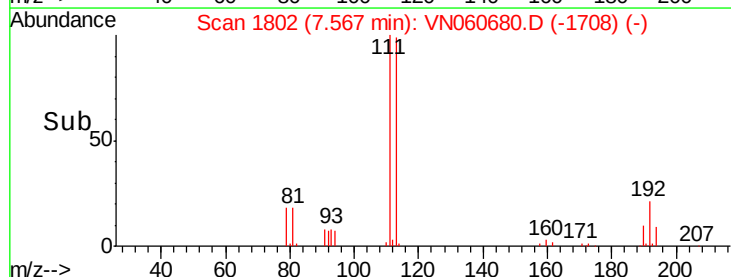
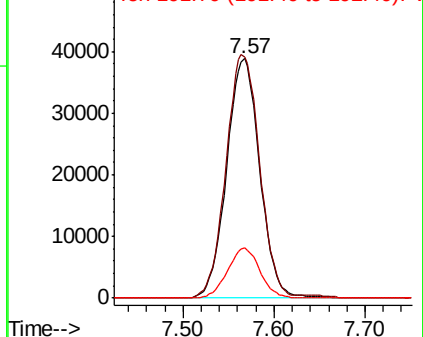


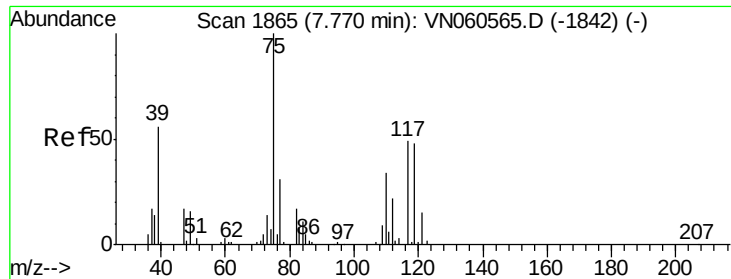
#35
 Dibromofluoromethane
 Concen: 48.760 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060680.D
 Acq: 24 Mar 2020 18:16

Tgt Ion:113 Resp: 98184
 Ion Ratio Lower Upper
 113 100
 111 104.1 82.9 124.3
 192 20.3 15.8 23.8



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: 4.930 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :

MSVOA_N

ClientSampled :

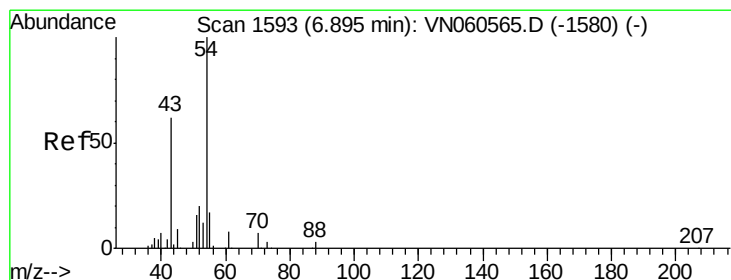
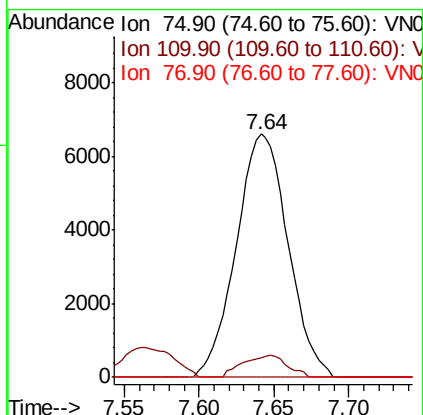
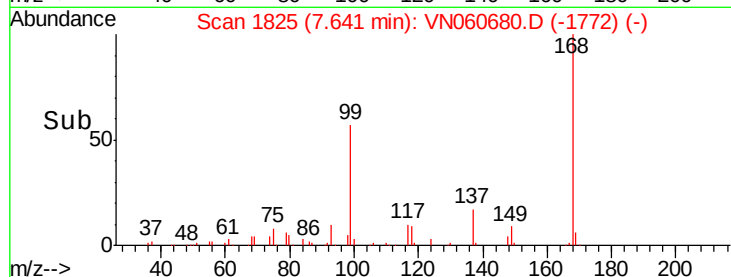
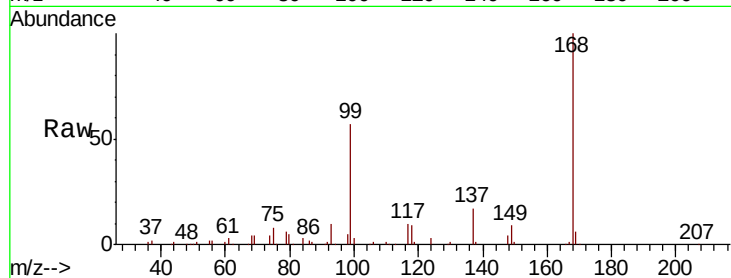
Tot Ion: 75 Resp: 15897

Ion Ratio Lower Upper

75 100

110 7.8 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 0.798 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.08 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

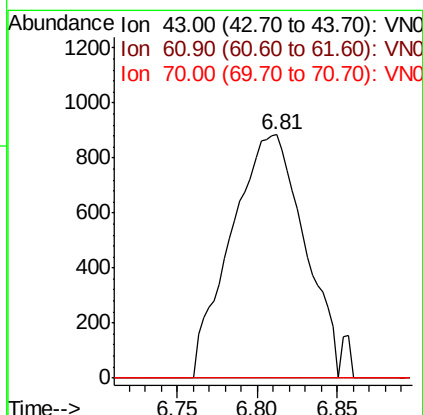
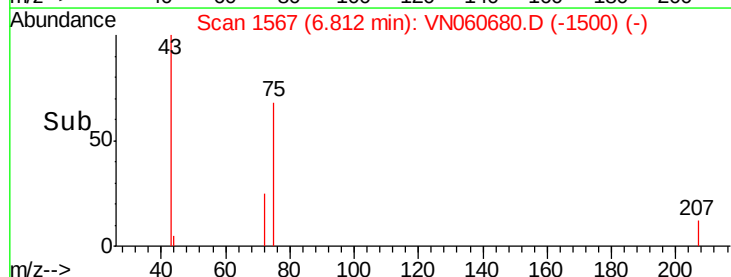
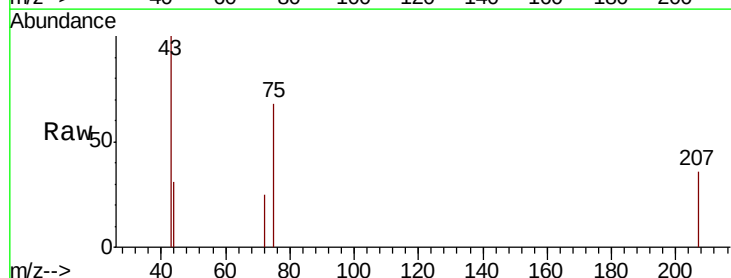
Tgt Ion: 43 Resp: 2782

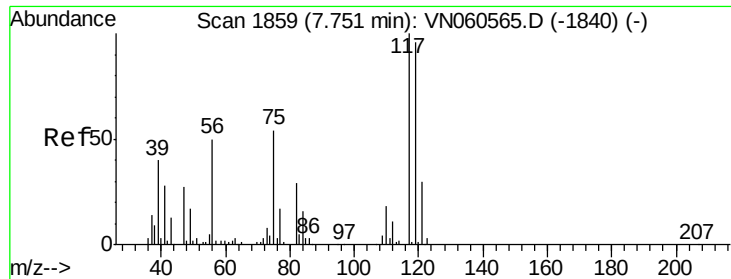
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.753 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :

MSVOA_N

ClientSampled :

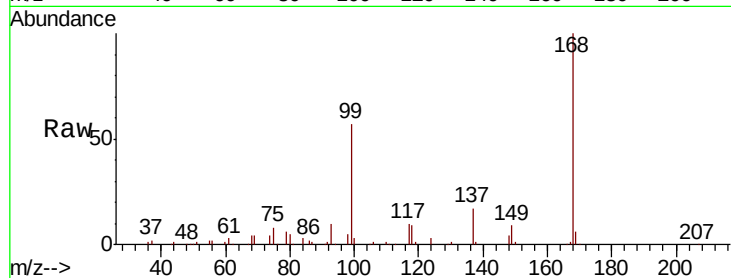
Tot Ion:117 Resp: 19517

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

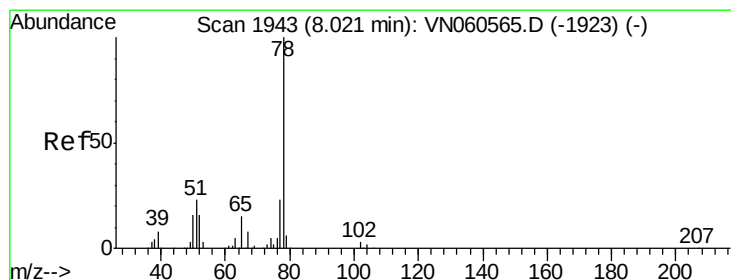
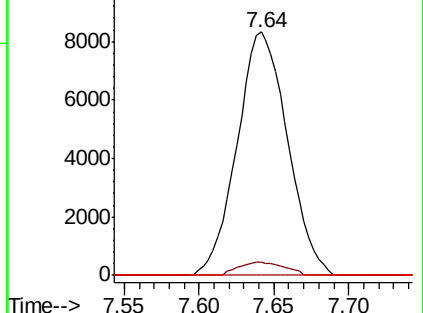
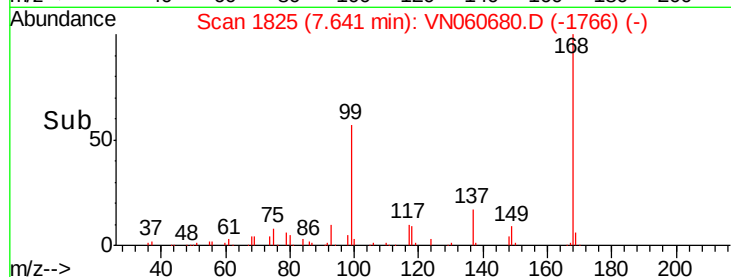
121 0.0 23.7 35.5#



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



#40

Benzene

Concen: 0.240 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN060680.D

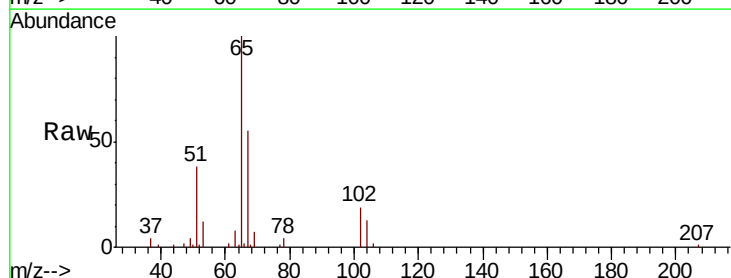
Acq: 24 Mar 2020 18:16

Tgt Ion: 78 Resp: 2340

Ion Ratio Lower Upper

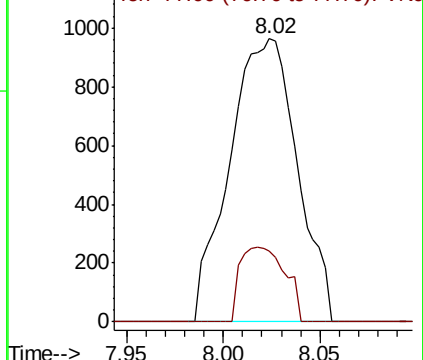
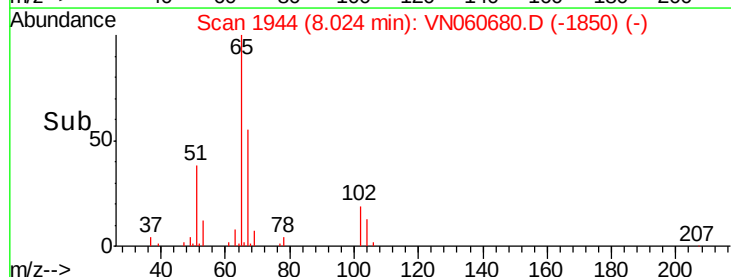
78 100

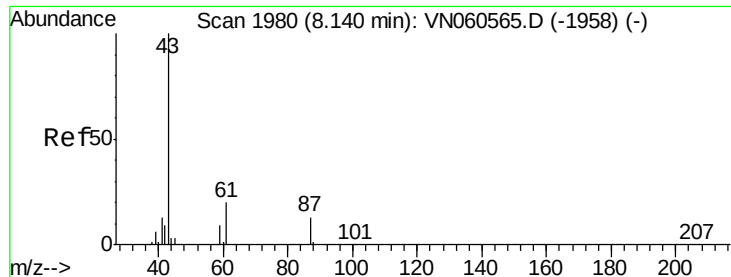
77 25.1 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 8.609 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

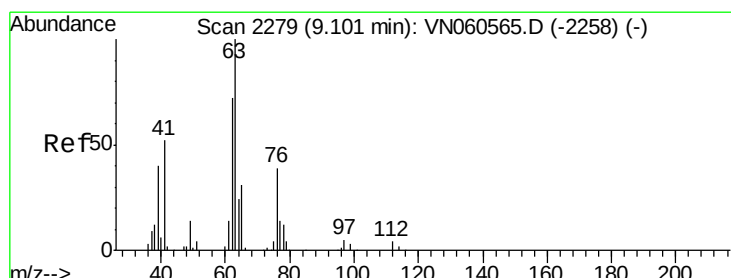
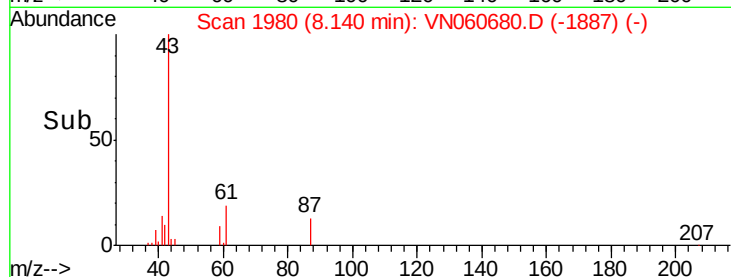
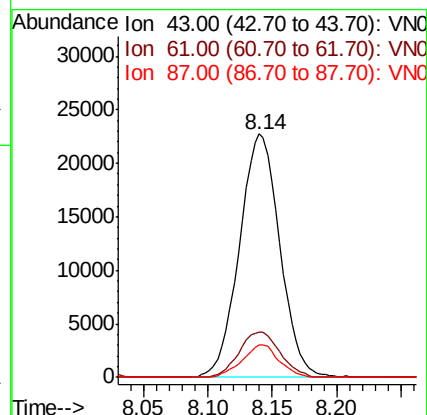
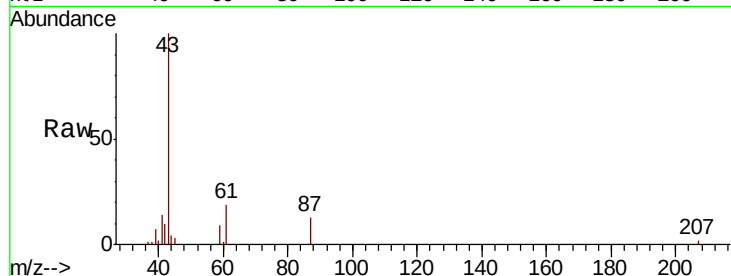
Tot Ion: 43 Resp: 49471

Ion Ratio Lower Upper

43 100

61 18.9 20.7 31.1#

87 12.1 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.359 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060680.D

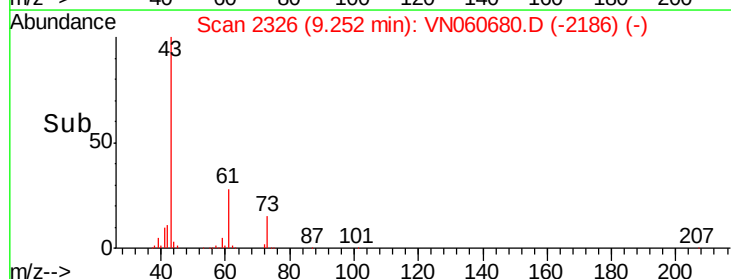
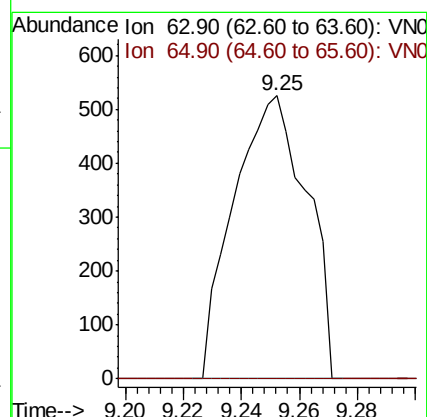
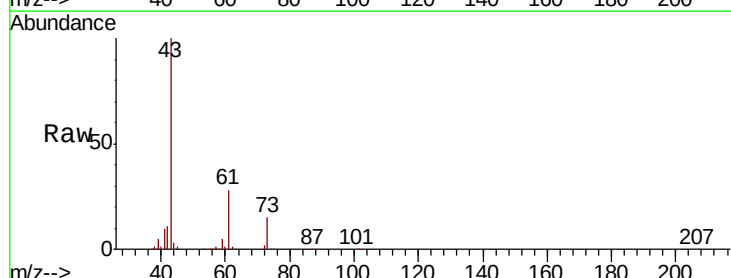
Acq: 24 Mar 2020 18:16

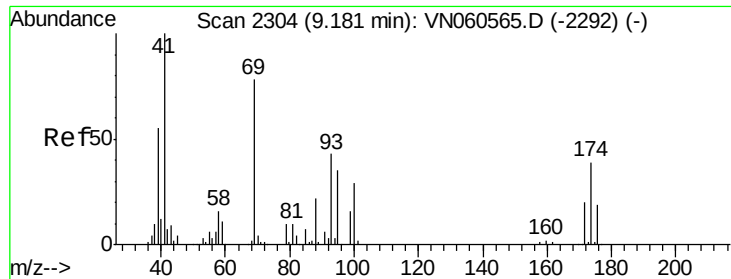
Tgt Ion: 63 Resp: 921

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

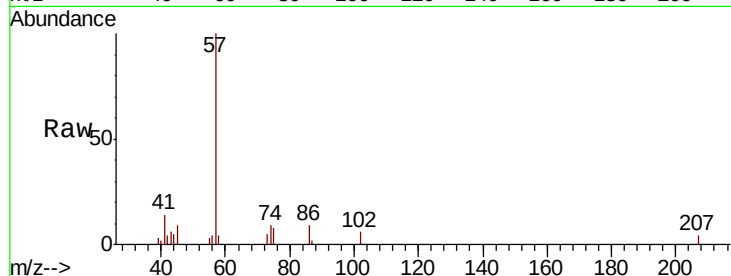




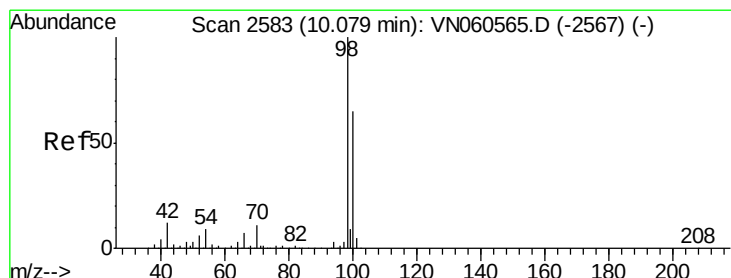
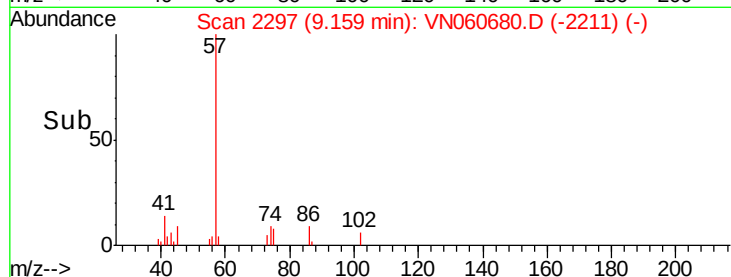
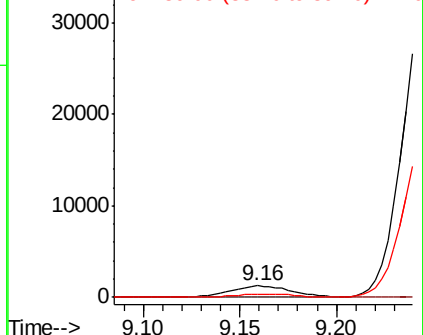
#48
Methvl methacrylate
Concen: 1.072 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2742
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

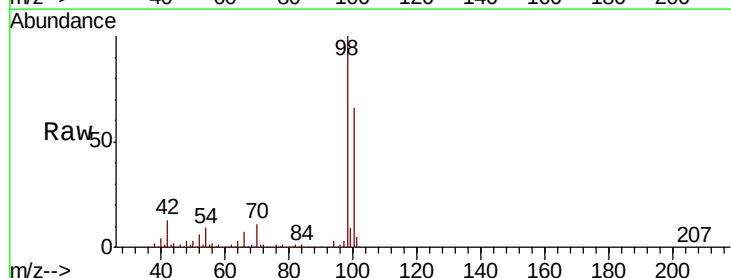


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

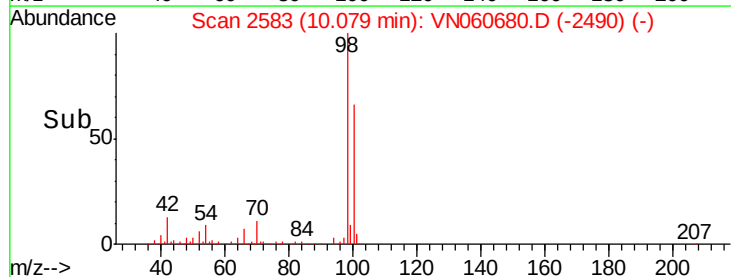
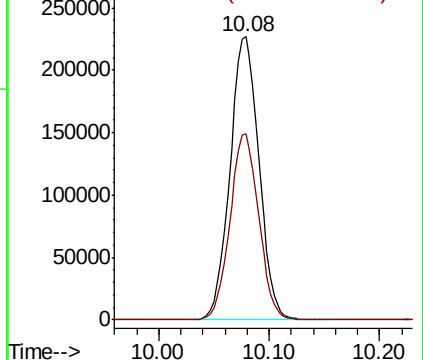


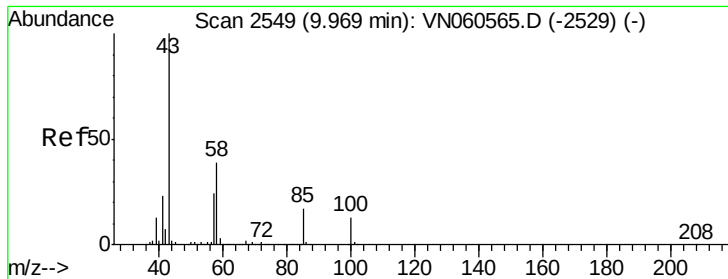
#50
Toluene-d8
Concen: 50.205 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

Tgt Ion: 98 Resp: 412923
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8



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

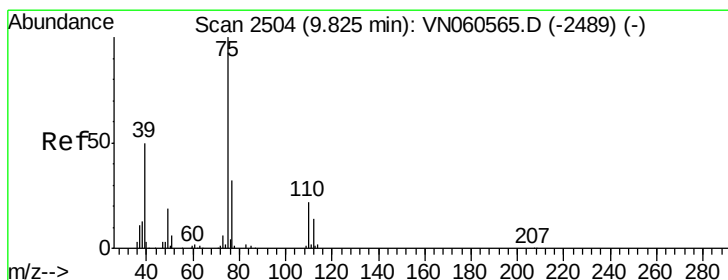
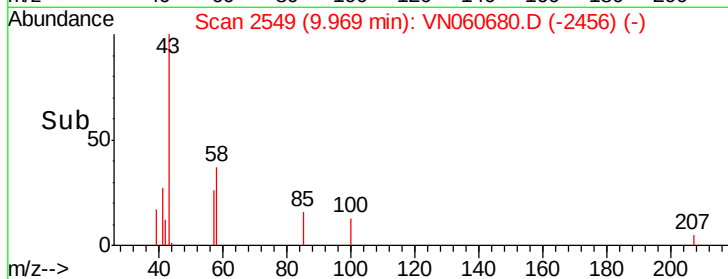
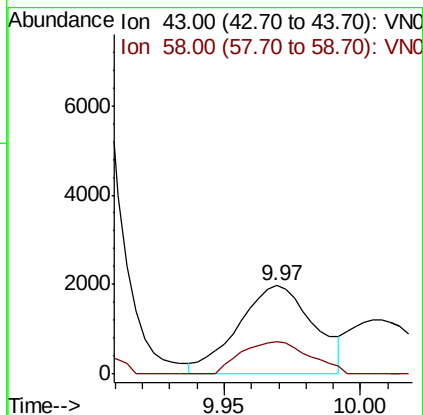
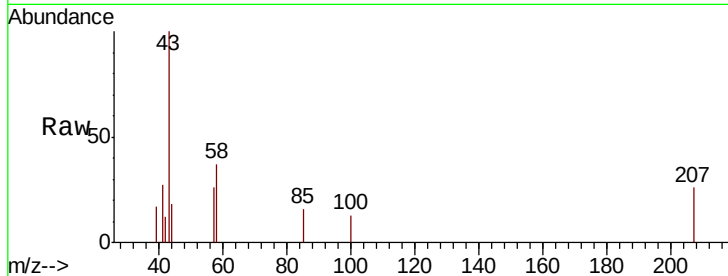




#51
 4-Methyl-2-Pentanone
 Concen: 1.169 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060680.D
 Acq: 24 Mar 2020 18:16

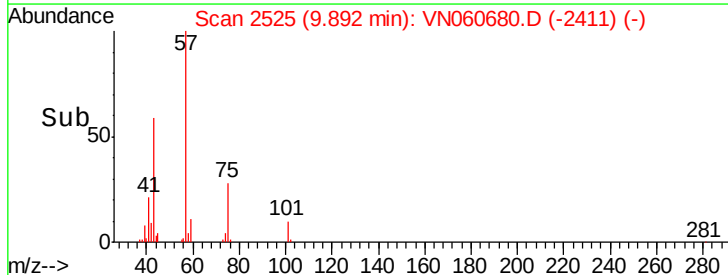
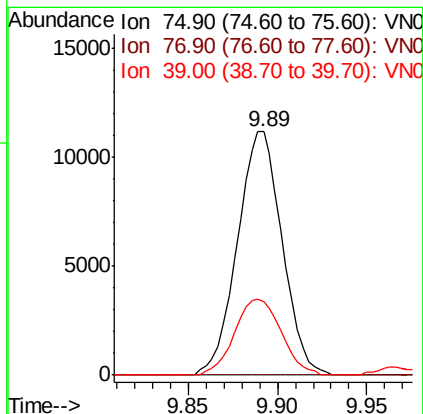
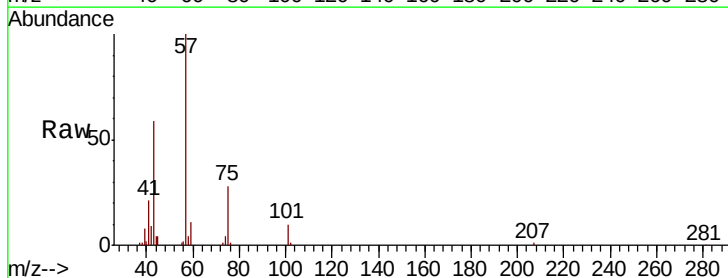
Instrument :
 MSVOA_N
 ClientSampleId :

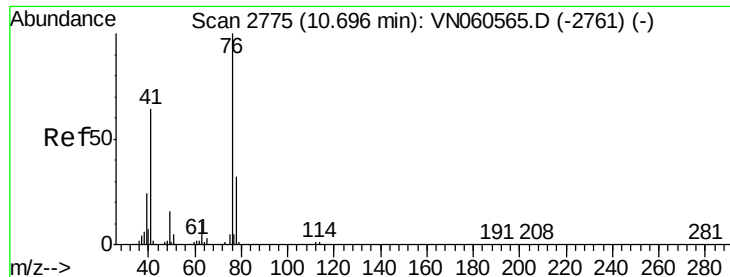
Tot Ion: 43 Resp: 3823
 Ion Ratio Lower Upper
 43 100
 58 33.2 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 4.804 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN060680.D
 Acq: 24 Mar 2020 18:16

Tgt Ion: 75 Resp: 19535
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 30.2 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.856 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :

MSVOA_N

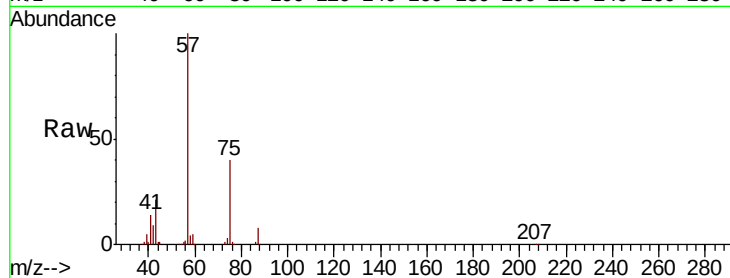
ClientSampleId :

Tot Ion: 76 Resp: 3360

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

2500

2000

1500

1000

500

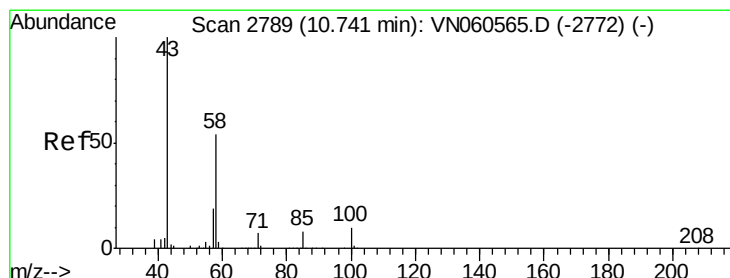
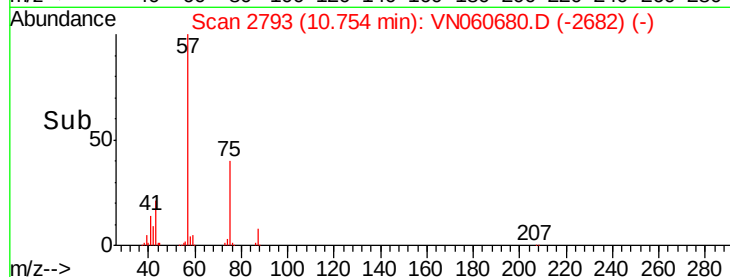
0

10.70

10.75

10.80

Time-->



#59

2-Hexanone

Concen: 20.845 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060680.D

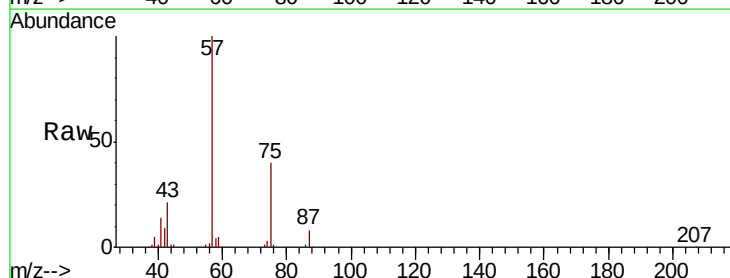
Acq: 24 Mar 2020 18:16

Tgt Ion: 43 Resp: 49098

Ion Ratio Lower Upper

43 100

58 19.0 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

30000

20000

10000

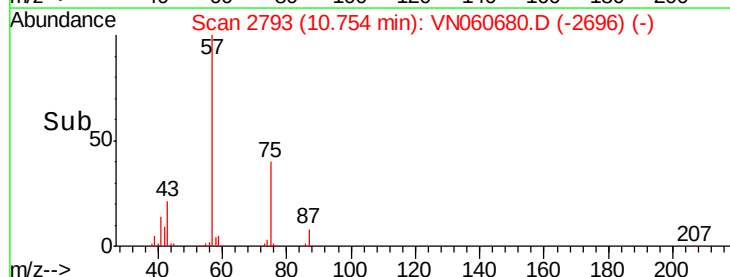
0

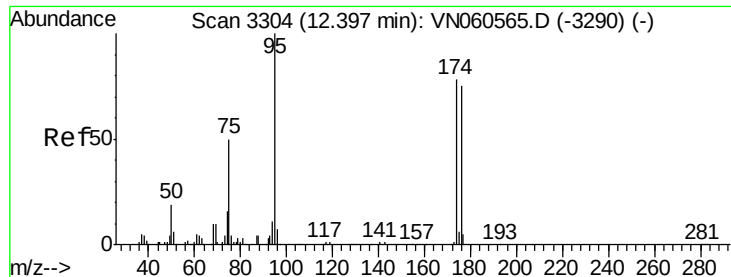
10.70

10.75

10.80

Time-->

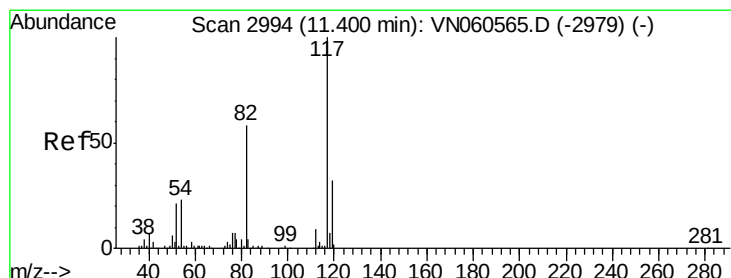
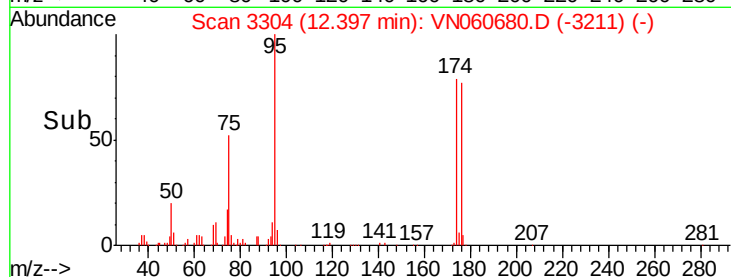
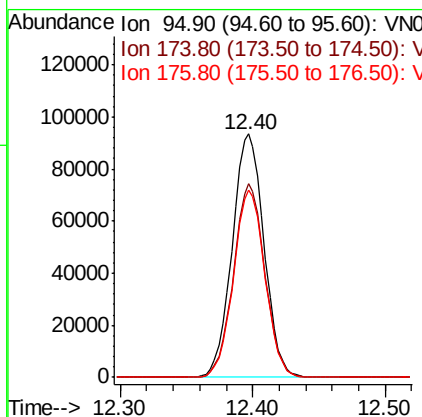
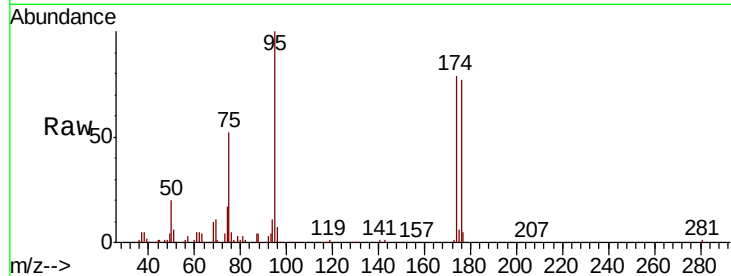




#62
4-Bromofluorobenzene
Concen: 51.468 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

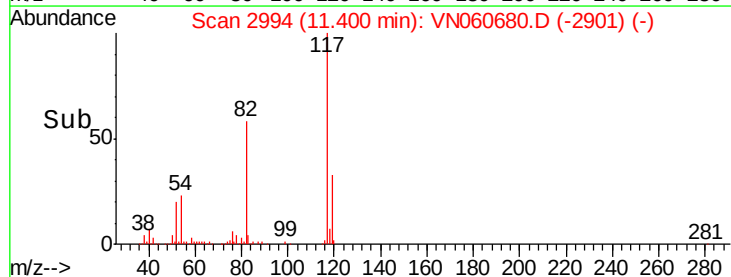
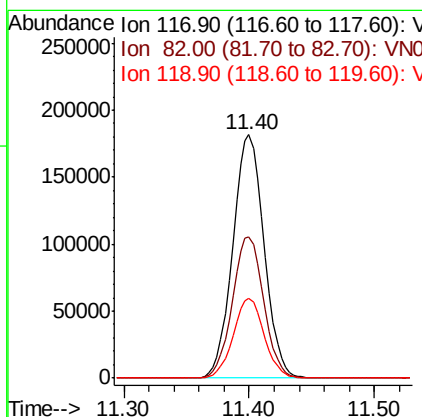
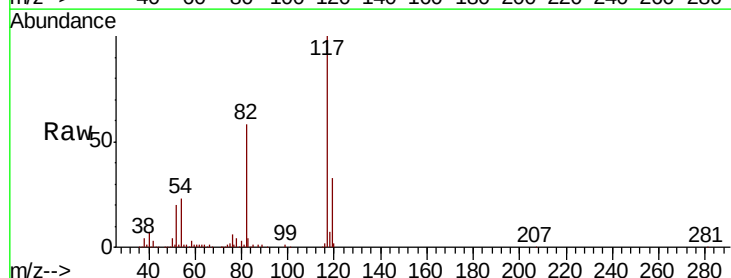
Instrument :
MSVOA_N
ClientSampleId :

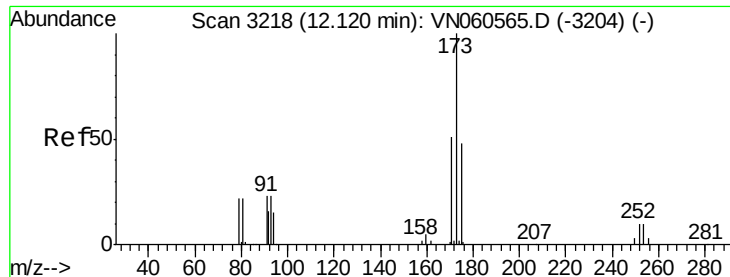
Tot Ion: 95 Resp: 155139
Ion Ratio Lower Upper
95 100
174 78.3 0.0 157.6
176 75.9 0.0 150.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

Tgt Ion: 117 Resp: 314308
Ion Ratio Lower Upper
117 100
82 58.3 46.7 70.1
119 33.0 25.5 38.3





#71

Bromoform

Concen: 2.104 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060680.D

Acq: 24 Mar 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

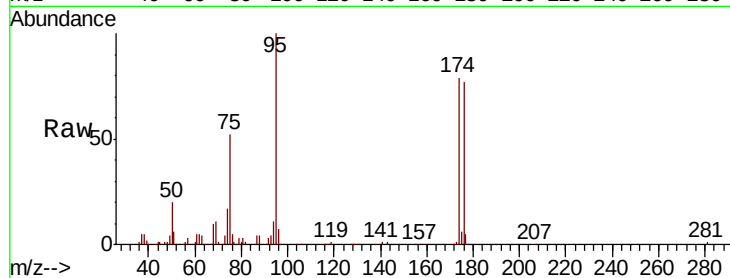
Tot Ion:173 Resp: 822

Ion Ratio Lower Upper

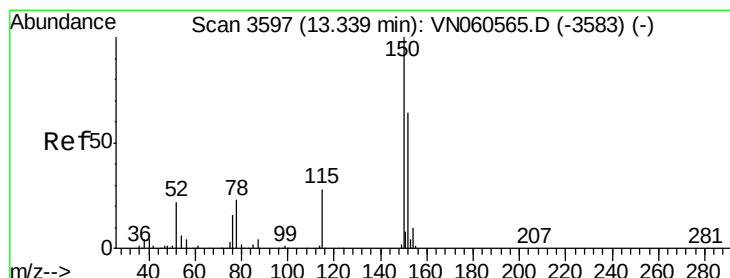
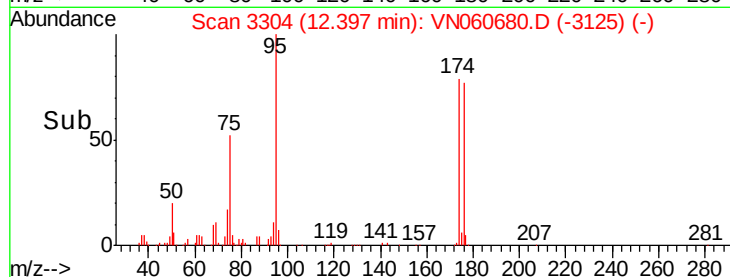
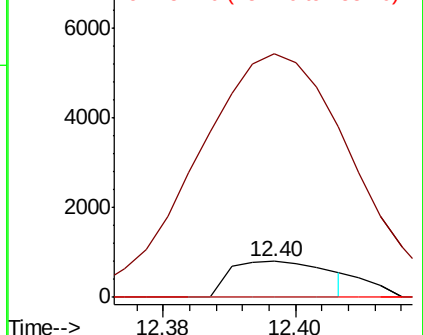
173 100

175 923.2 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: VN060680.D

Acq: 24 Mar 2020 18:16

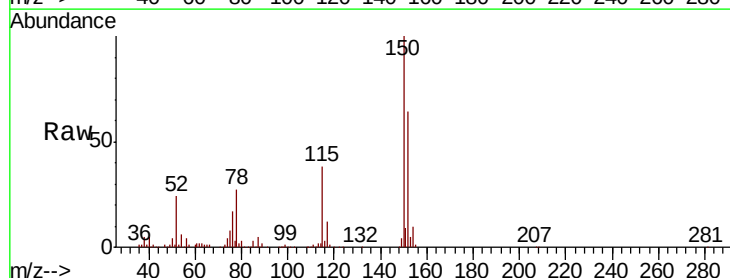
Tgt Ion:152 Resp: 148522

Ion Ratio Lower Upper

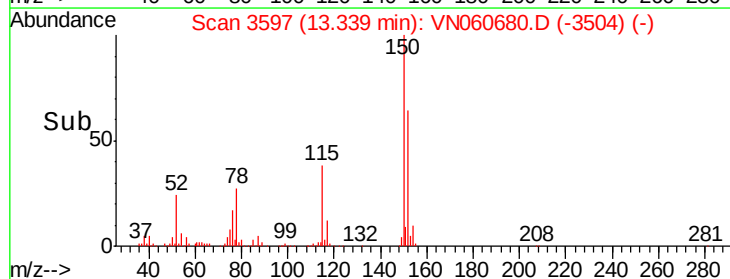
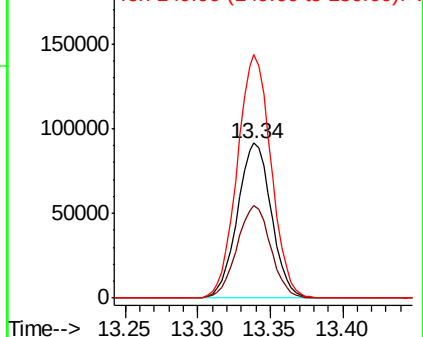
152 100

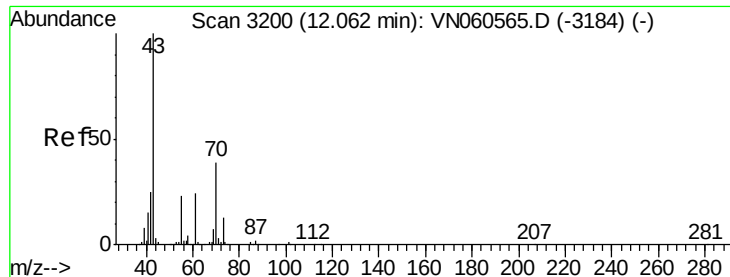
115 59.5 30.2 90.6

150 156.9 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

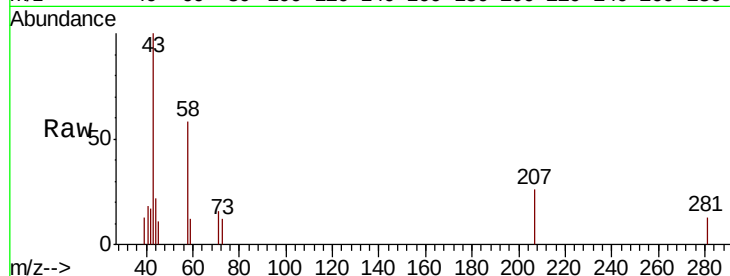




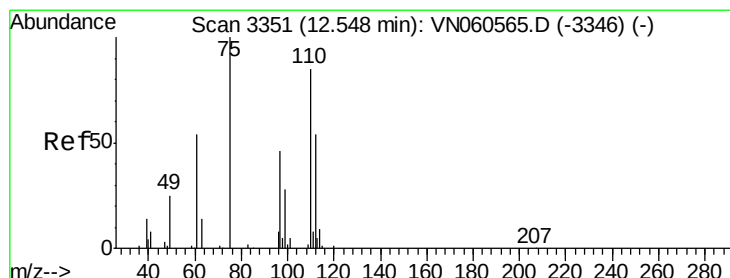
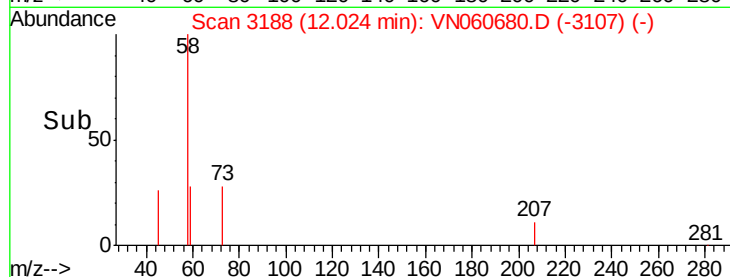
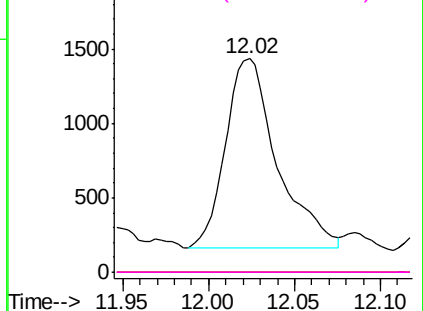
#74
N-amvl acetate
Concen: 0.514 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 2647
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#

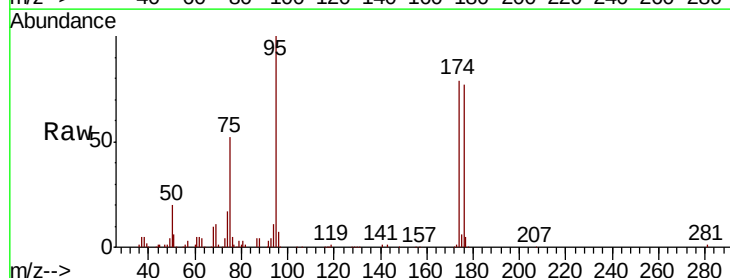


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 70.00 (69.70 to 70.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 61.00 (60.70 to 61.70): VN0

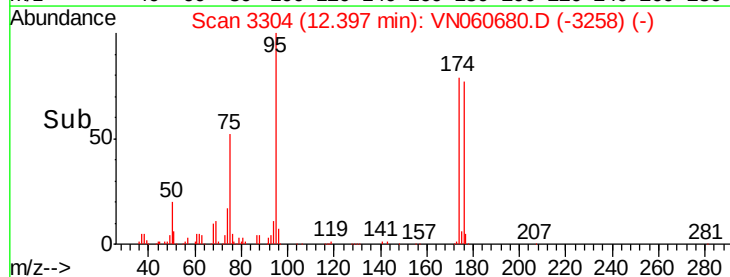
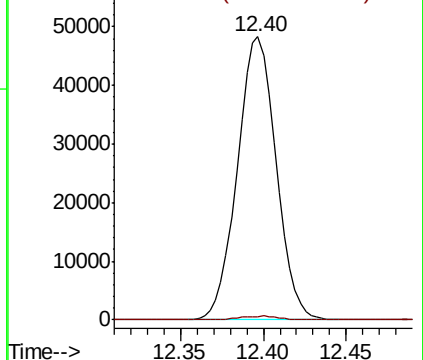


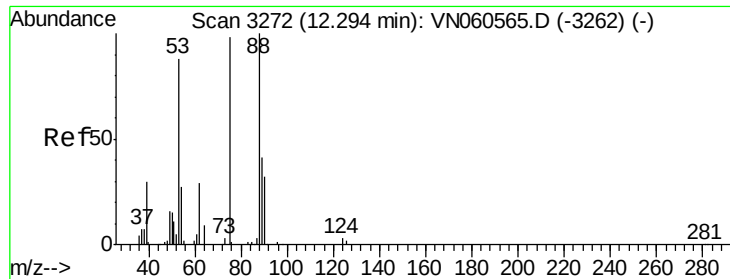
#76
1,2,3-Trichloropropane
Concen: 24.568 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

Tgt Ion: 75 Resp: 78734
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0

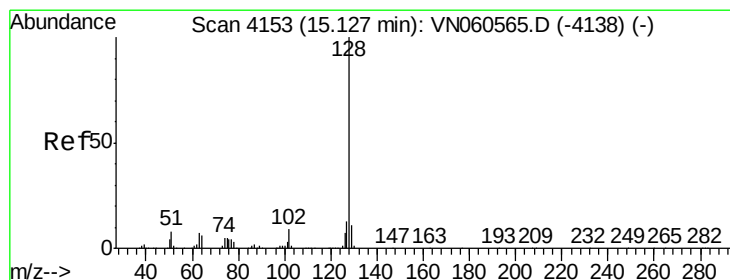
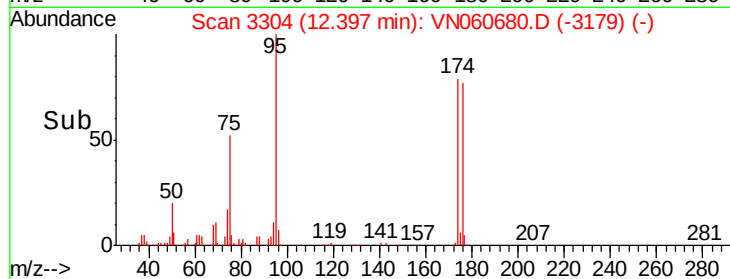
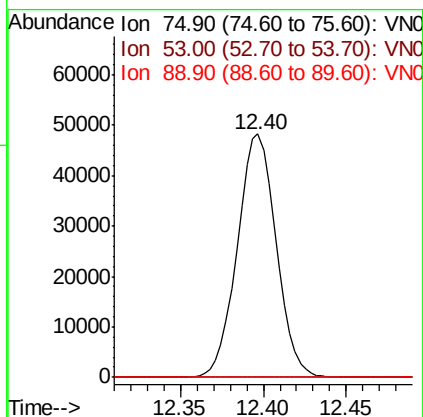
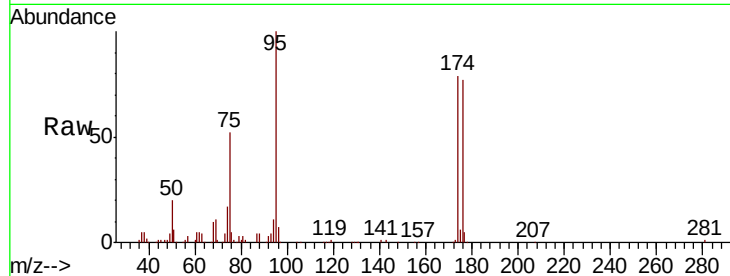




#81
trans-1,4-Dichloro-2-butene
Concen: 63.097 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 78734
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#95
Naphthalene
Concen: 21.051 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN060680.D
Acq: 24 Mar 2020 18:16

Tgt Ion: 128 Resp: 176114
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 10.7 8.8 13.2

