

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060752.D
 Acq On : 27 Mar 2020 19:31
 Operator : JC/MD
 Sample : L2040-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-350

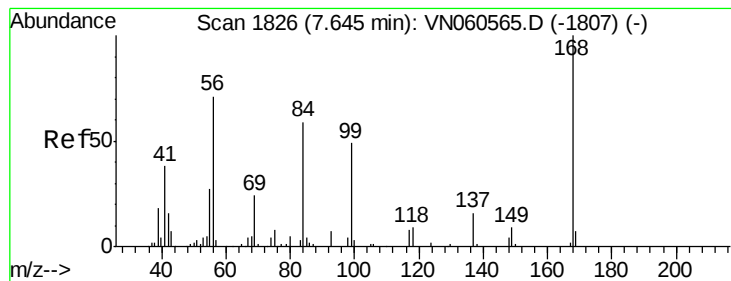
Quant Time: Mar 28 02:02:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	197146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	328246	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	311608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141687	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	128985	47.66	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.57	113	98442	49.60	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	406447	50.13	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	151629	51.03	ug/l	0.00
Spiked Amount						

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5796	6.046	ug/l	96
18) Methyl Acetate	4.29	43	2082	0.772	ug/l #	54
20) Methylene Chloride	4.53	84	4567	1.937	ug/l	95
25) 2-Butanone	6.80	43	1186	0.765	ug/l #	50
31) Cyclohexane	7.64	56	3734	0.857	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15401	4.845	ug/l #	50
37) Ethyl Acetate	6.80	43	1186	0.345	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19445	6.826	ug/l #	16
43) Isopropyl Acetate	8.14	43	61947	10.937	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	1029	0.406	ug/l #	43
48) Methyl methacrylate	9.16	41	3370	1.336	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4548	1.411	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	25674	6.406	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	4010	1.037	ug/l #	42
59) 2-Hexanone	10.75	43	60027	25.855	ug/l #	52
71) Bromoform	12.39	173	210	1.790	ug/l #	1
74) N-amyl acetate	12.02	43	3248	0.661	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	76566	25.044	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76566	64.319	ug/l #	13

(#) = 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: VN060752.D

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Instrument :

MSVOA_N

ClientSampleId :

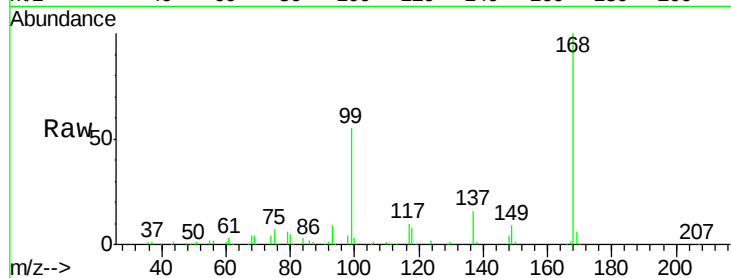
RO-350

Tgt Ion:168 Resp: 197146

Ion Ratio Lower Upper

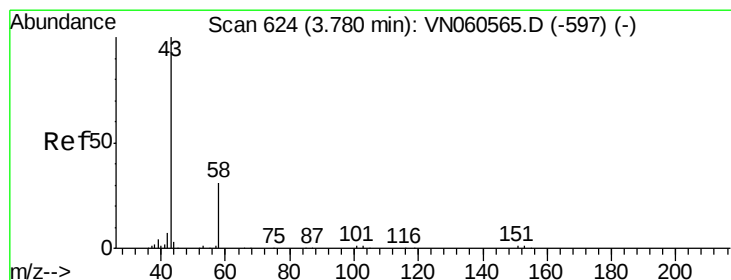
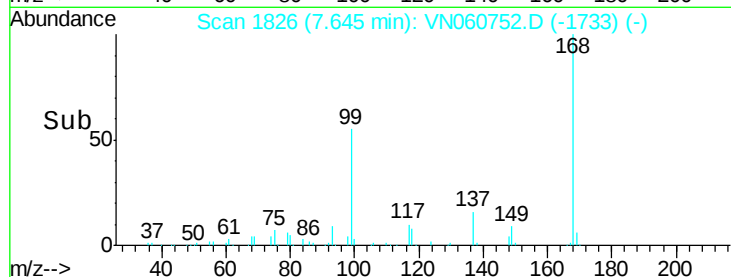
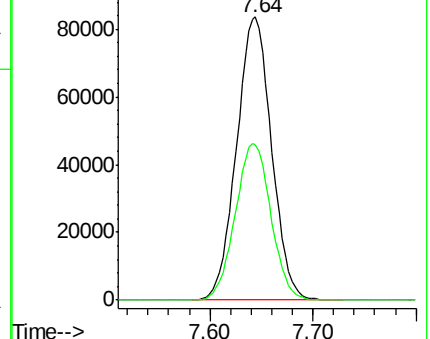
168 100

99 55.0 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: 6.046 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060752.D

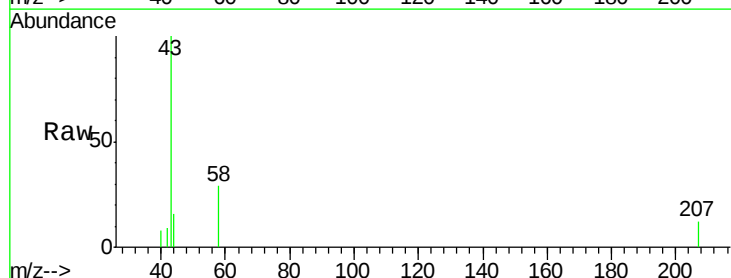
Acq: 27 Mar 2020 19:31

Tgt Ion: 43 Resp: 5796

Ion Ratio Lower Upper

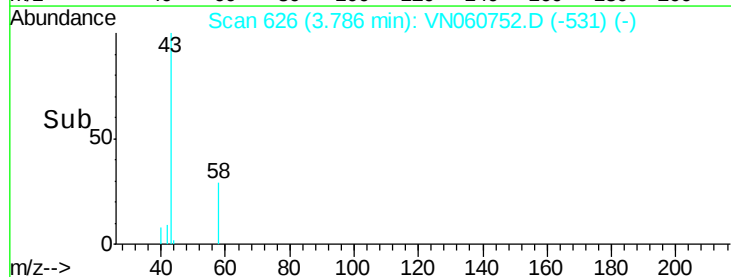
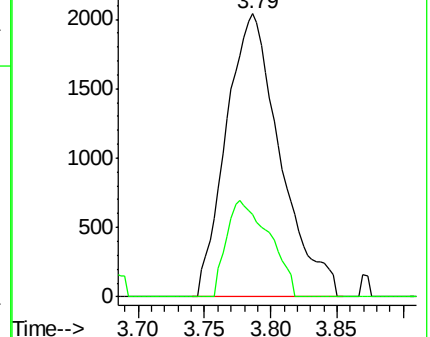
43 100

58 28.9 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

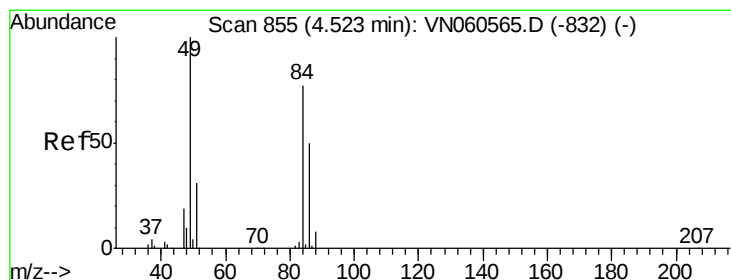
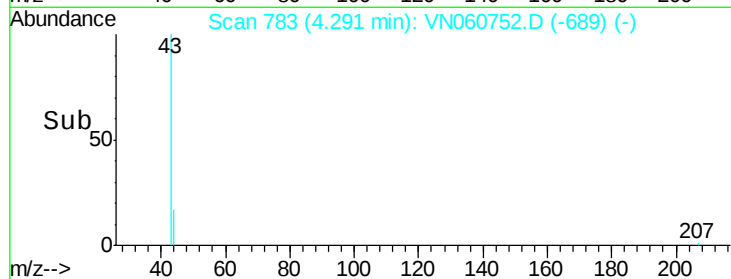
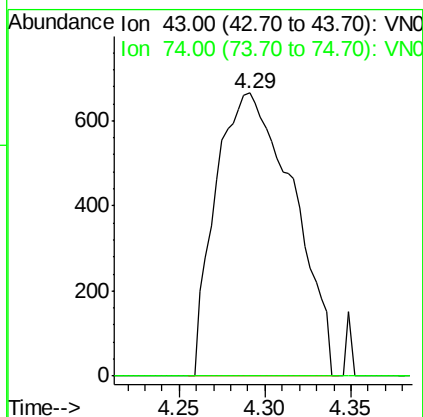
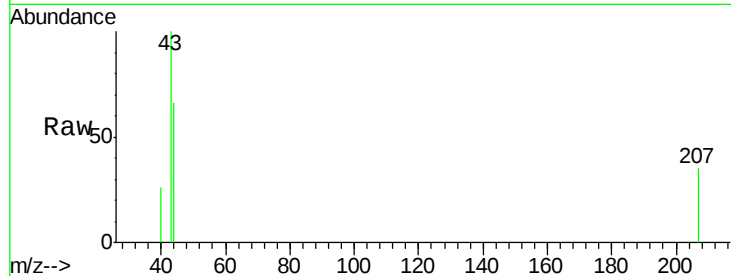




#18
Methyl Acetate
Concen: 0.772 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060752.D
Acq: 27 Mar 2020 19:31

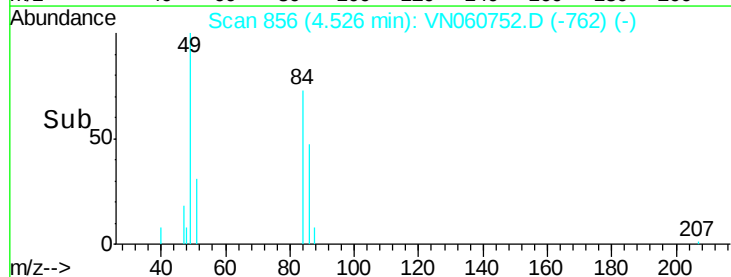
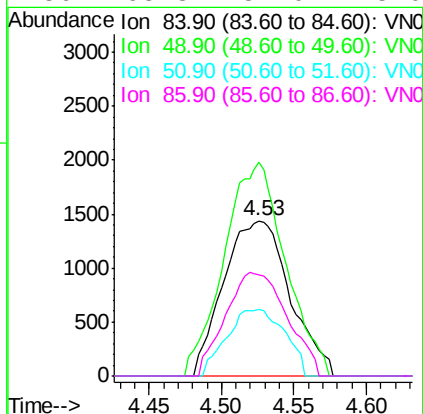
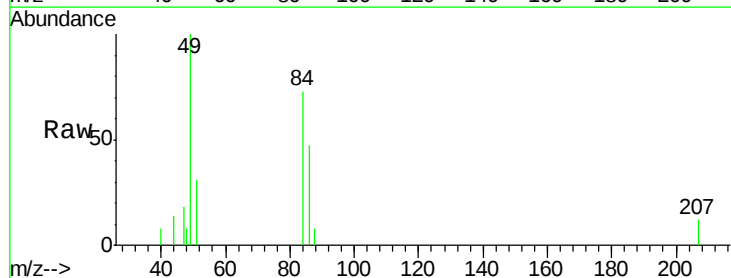
Instrument :
MSVOA_N
ClientSampled :
RO-350

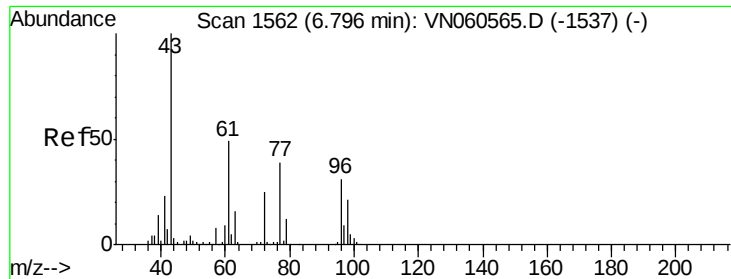
Tgt Ion: 43 Resp: 2082
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.937 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060752.D
Acq: 27 Mar 2020 19:31

Tgt Ion: 84 Resp: 4567
Ion Ratio Lower Upper
84 100
49 137.9 103.3 154.9
51 43.1 31.6 47.4
86 65.3 52.0 78.0





#25

2-Butanone

Concen: 0.765 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

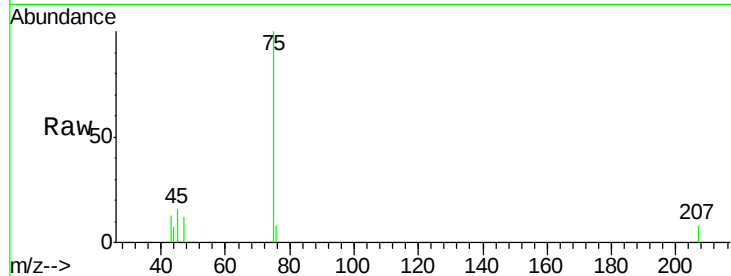
RO-350

Tgt Ion: 43 Resp: 1186

Ion Ratio Lower Upper

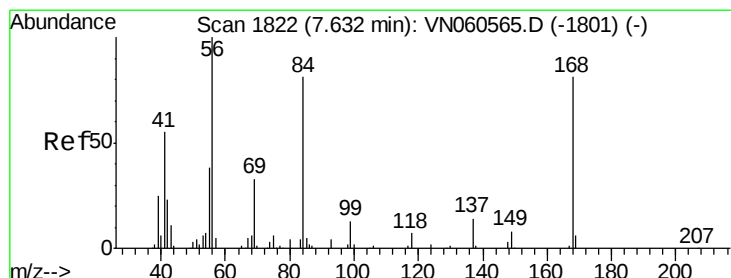
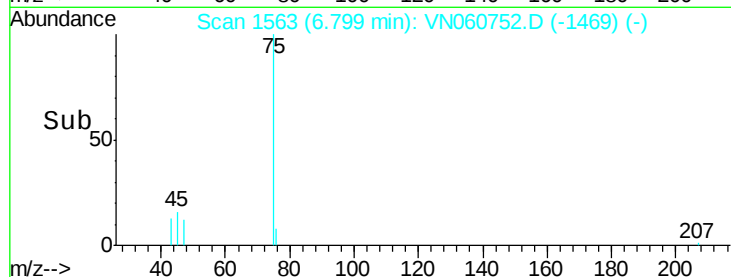
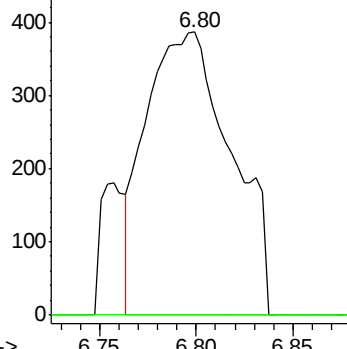
43 100

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: 0.857 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

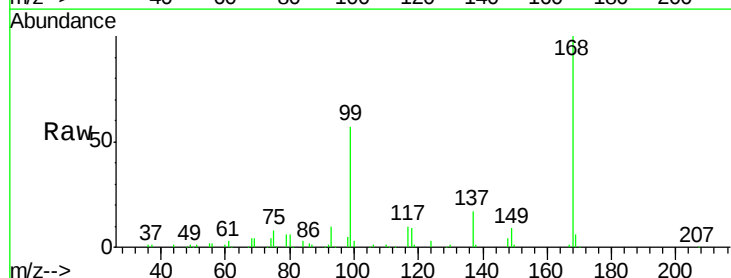
Tgt Ion: 56 Resp: 3734

Ion Ratio Lower Upper

56 100

69 190.2 26.6 40.0#

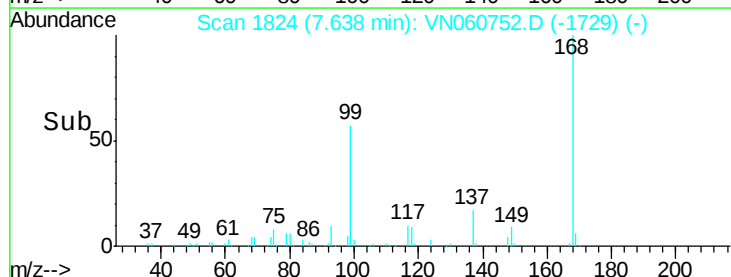
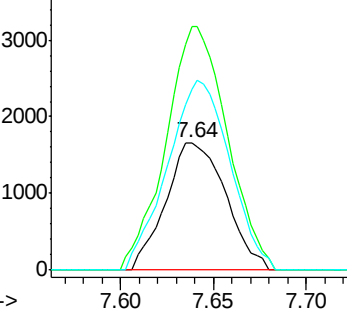
84 141.8 64.3 96.5#



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

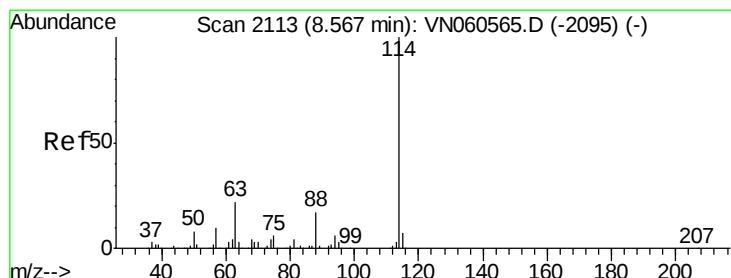
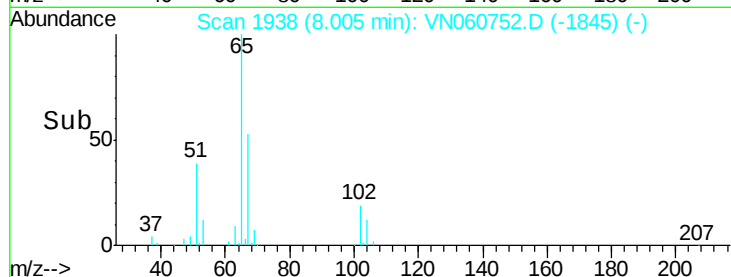
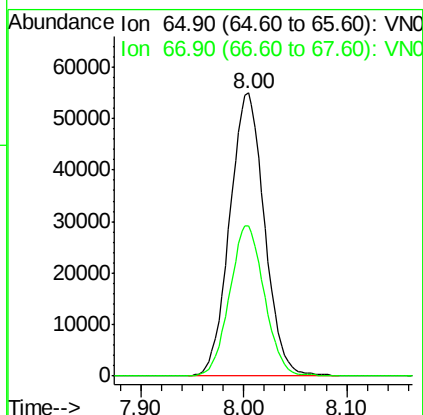
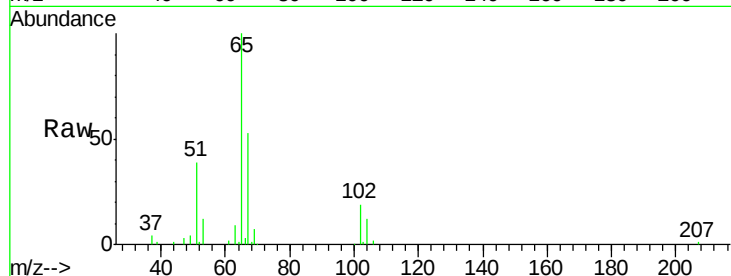




#33
 1,2-Dichloroethane-d4
 Concen: 47.660 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

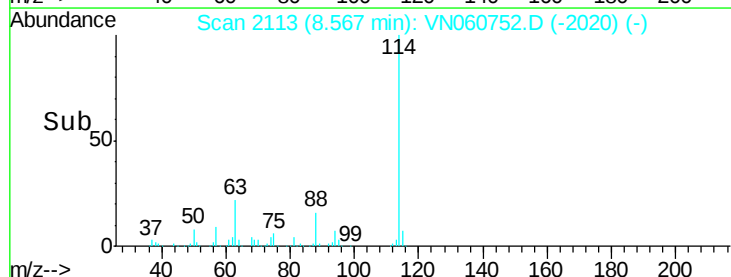
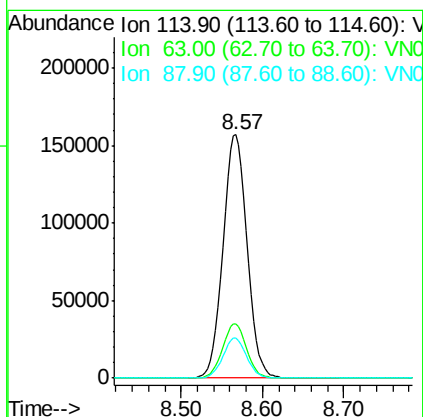
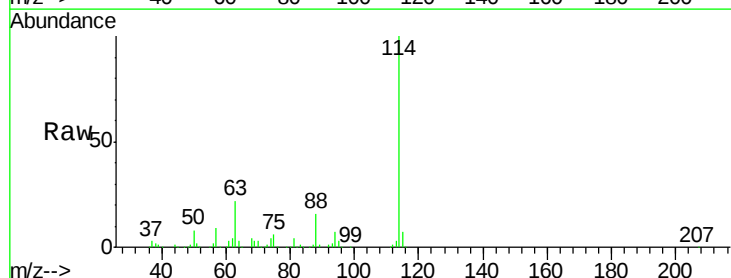
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-350

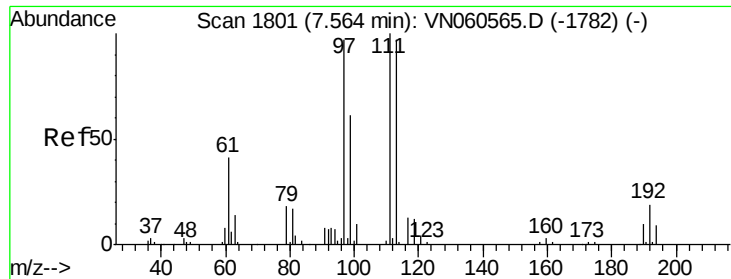
Tgt Ion: 65 Resp: 128985
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

Tgt Ion: 114 Resp: 328246
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 16.4 0.0 33.0

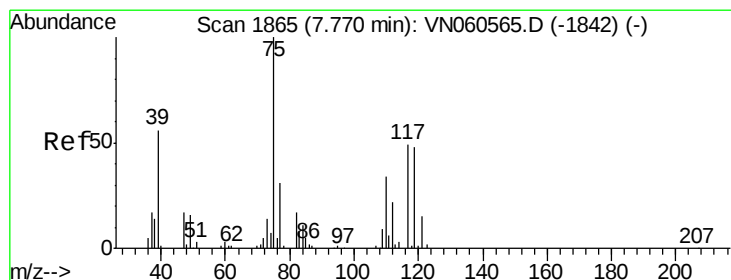
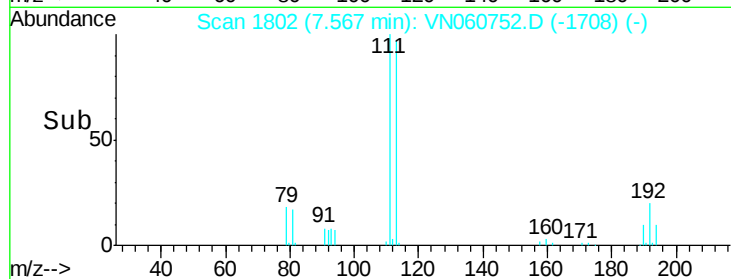
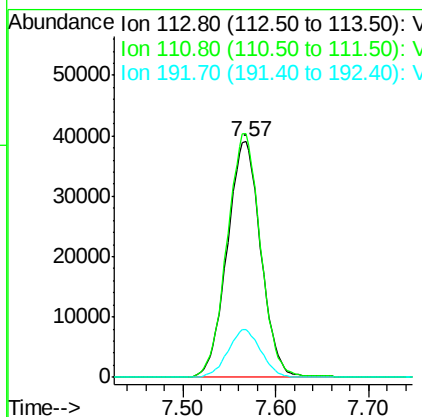
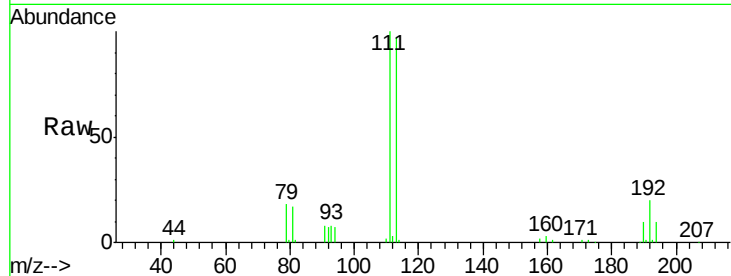




#35
 Dibromofluoromethane
 Concen: 49.598 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

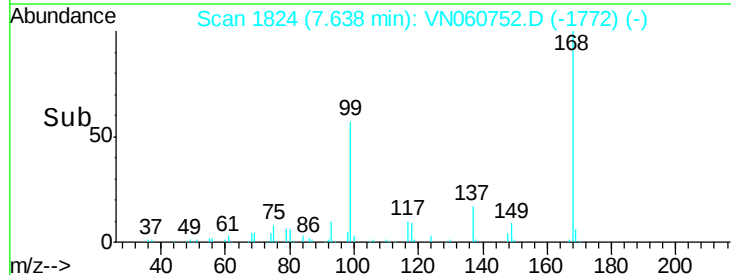
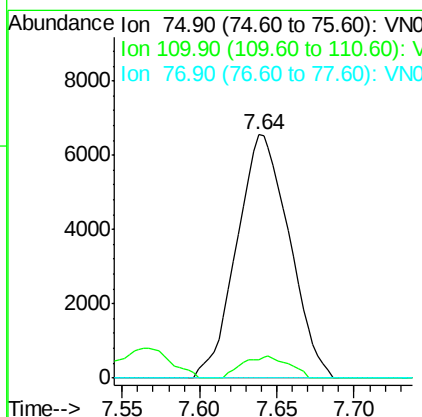
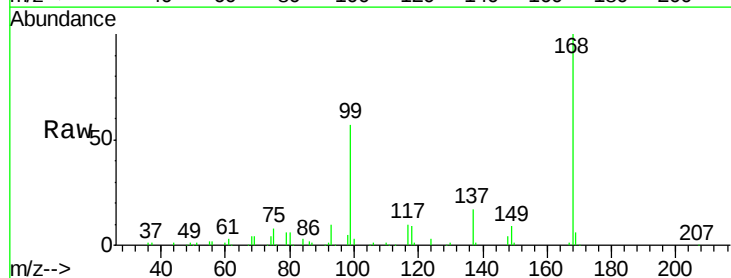
Instrument :
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 ClientSampled :
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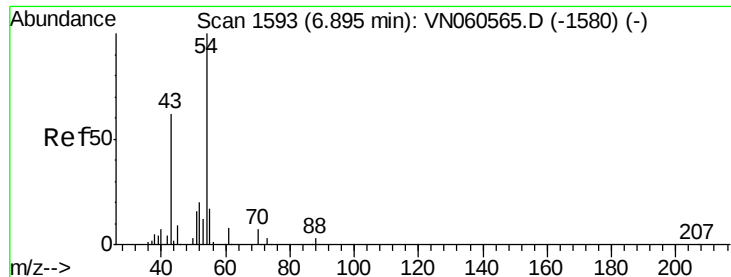
Tgt Ion:113 Resp: 98442
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.9 124.3
 192 19.9 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.845 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

Tgt Ion: 75 Resp: 15401
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.9 50.6#
 77 0.0 24.6 36.8#

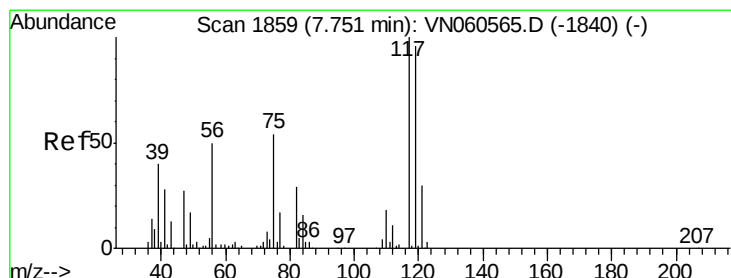
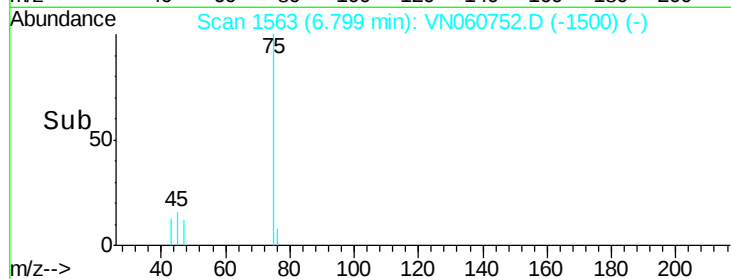
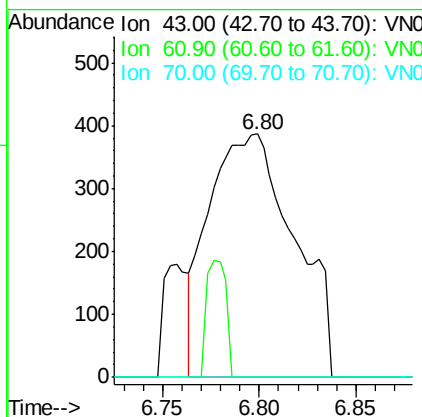
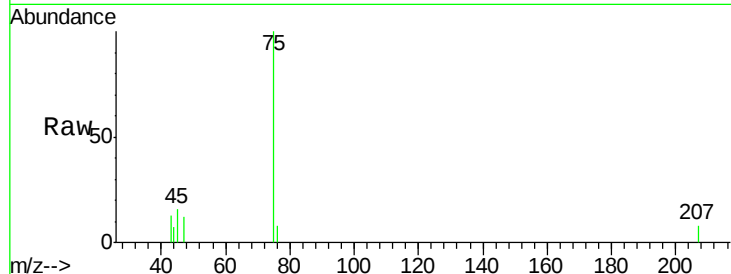




#37
 Ethyl Acetate
 Concen: 0.345 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.10 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

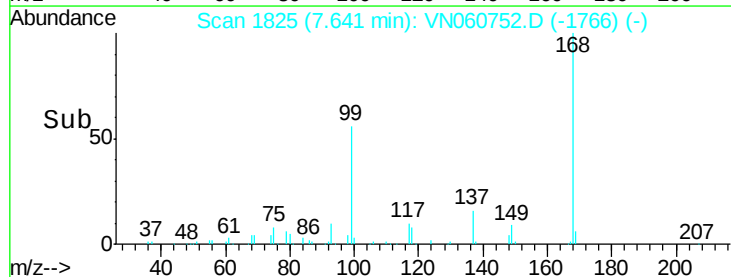
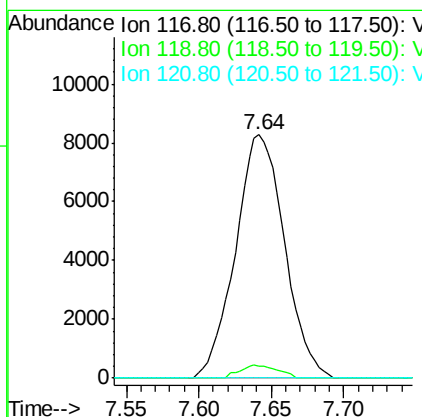
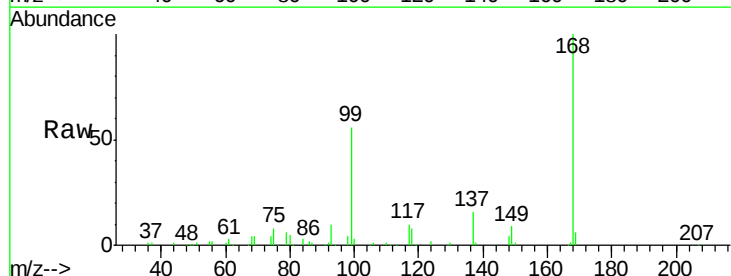
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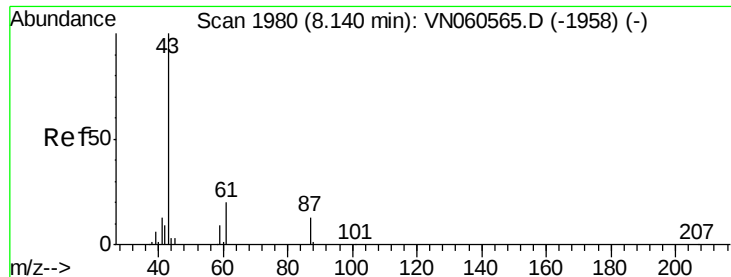
Tgt Ion: 43 Resp: 1186
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#



#38
 Carbon Tetrachloride
 Concen: 6.826 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

Tgt Ion: 117 Resp: 19445
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.2 114.2#
 121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.937 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

Instrument :

MSVOA_N

ClientSampled :

RO-350

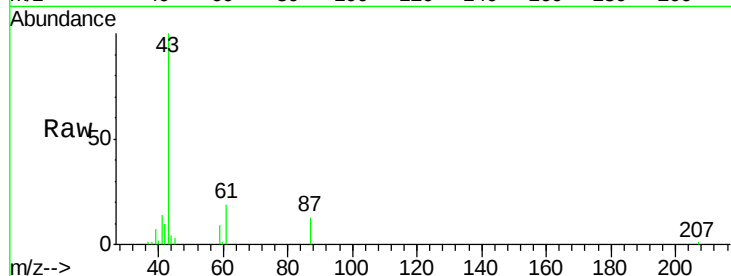
Tgt Ion: 43 Resp: 61947

Ion Ratio Lower Upper

43 100

61 19.6 20.7 31.1#

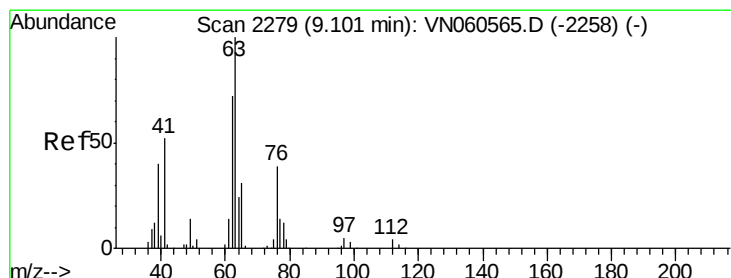
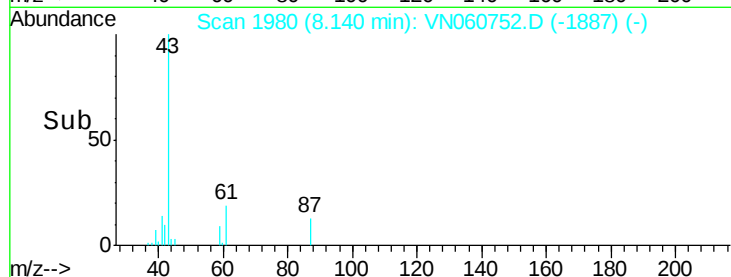
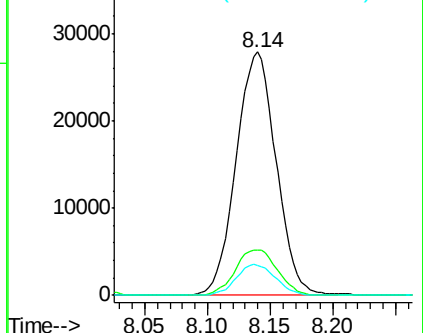
87 12.4 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060752.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060752.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060752.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060752.D

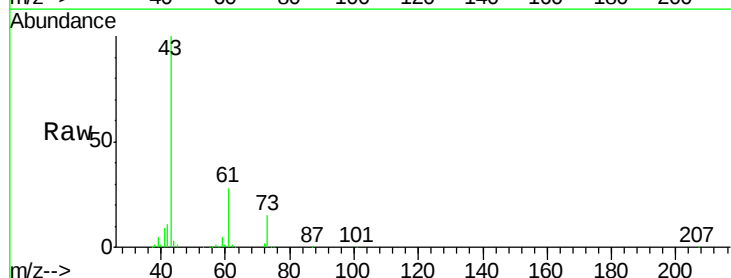
Acq: 27 Mar 2020 19:31

Tgt Ion: 63 Resp: 1029

Ion Ratio Lower Upper

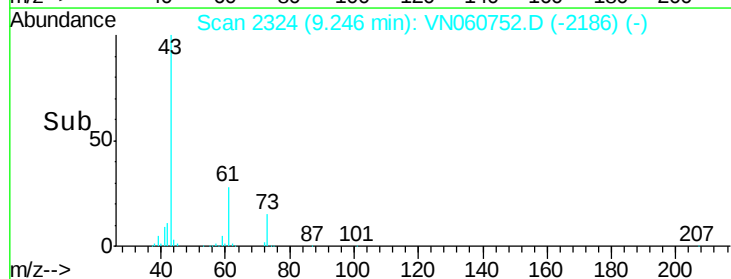
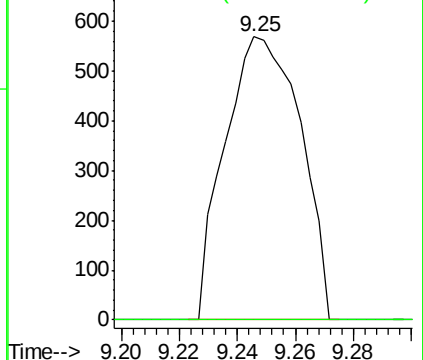
63 100

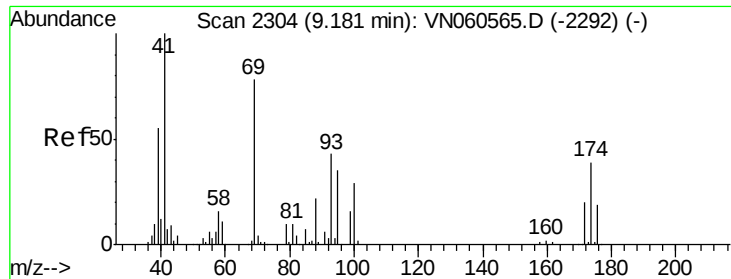
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060752.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060752.D (-2186) (-)

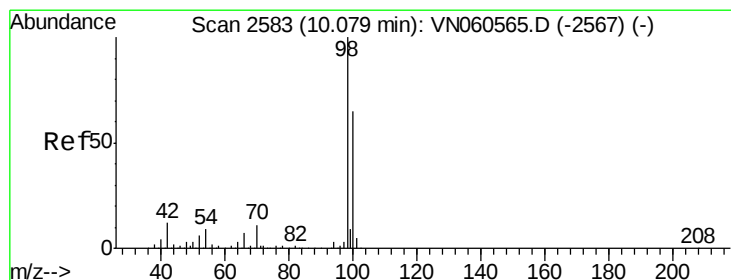
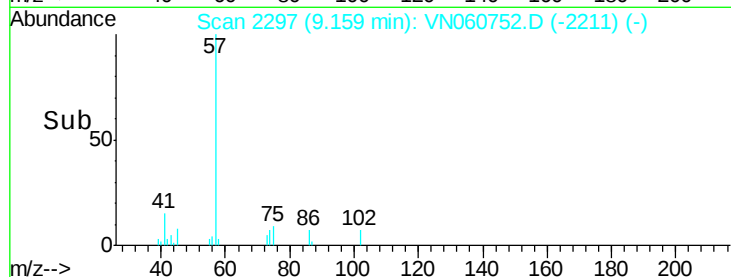
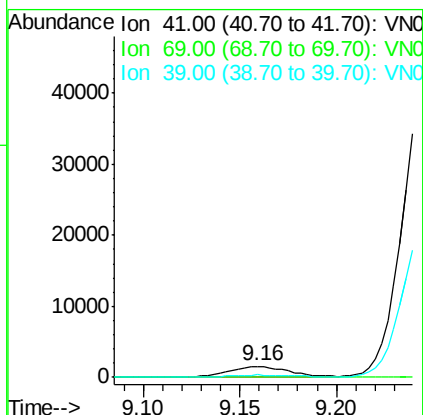
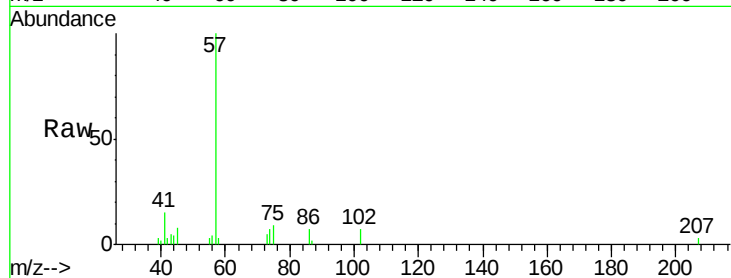




#48
Methyl methacrylate
Concen: 1.336 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060752.D
Acq: 27 Mar 2020 19:31

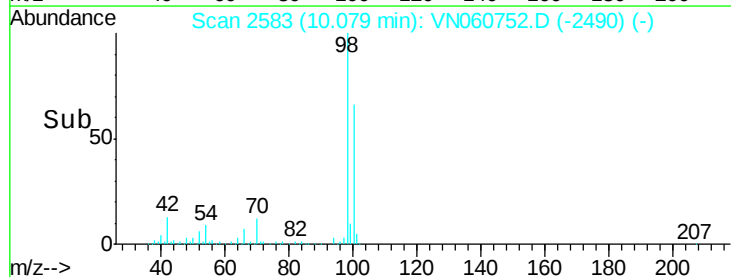
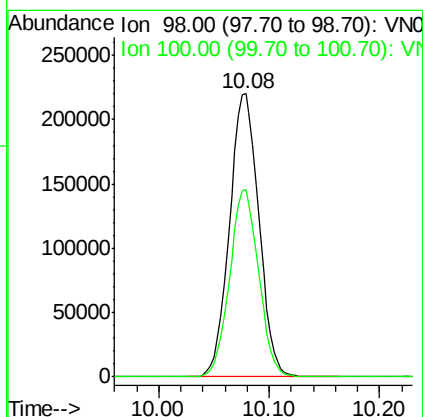
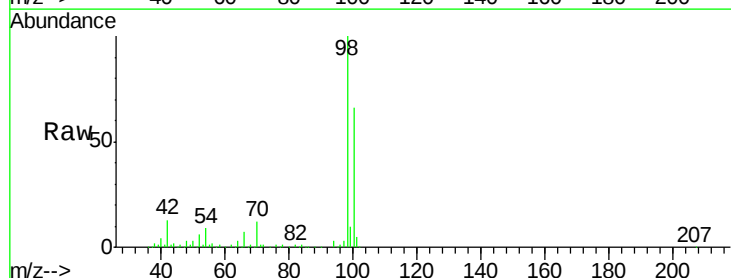
Instrument :
MSVOA_N
ClientSampled :
RO-350

Tgt Ion: 41 Resp: 3370
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.135 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060752.D
Acq: 27 Mar 2020 19:31

Tgt Ion: 98 Resp: 406447
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8

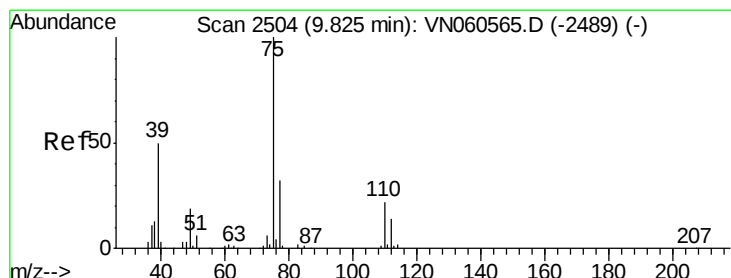
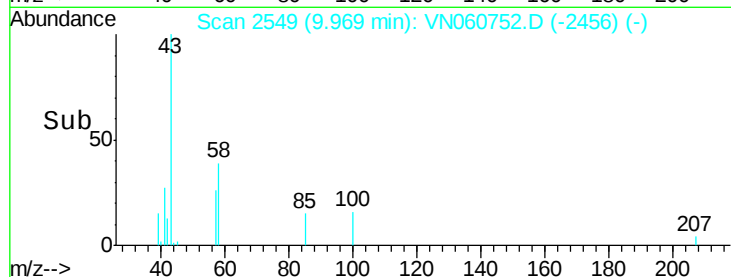
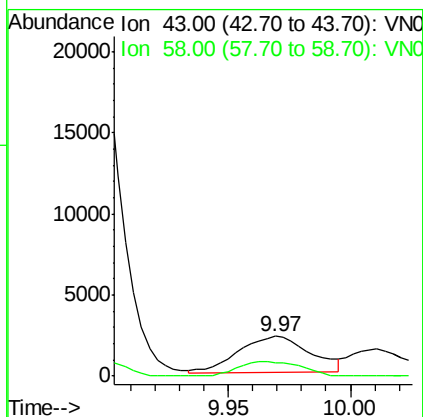
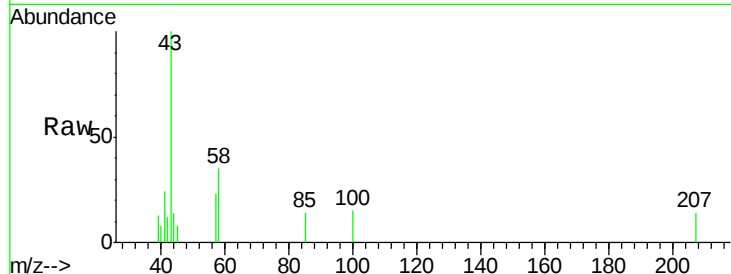




#51
 4-Methyl-2-Pentanone
 Concen: 1.411 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

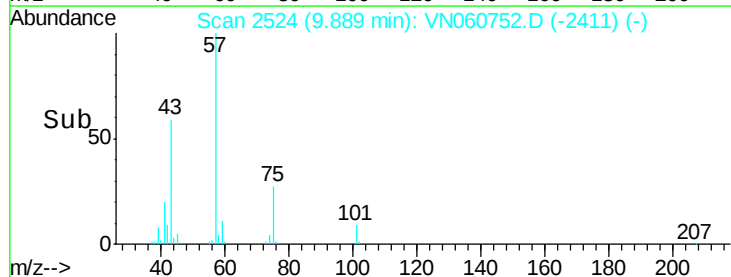
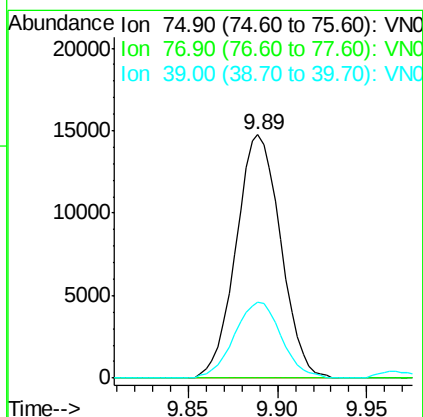
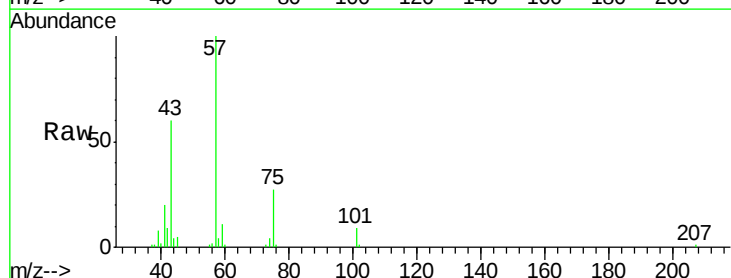
Instrument :
 MSVOA_N
 ClientSampled :
 RO-350

Tgt Ion: 43 Resp: 4548
 Ion Ratio Lower Upper
 43 100
 58 35.6 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 6.406 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060752.D
 Acq: 27 Mar 2020 19:31

Tgt Ion: 75 Resp: 25674
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.2 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 1.037 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

Instrument :

MSVOA_N

ClientSampled :

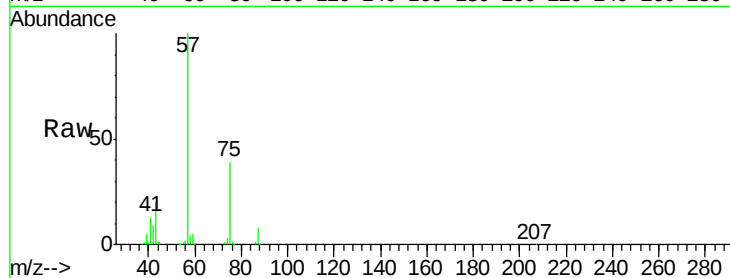
RO-350

Tgt Ion: 76 Resp: 4010

Ion Ratio Lower Upper

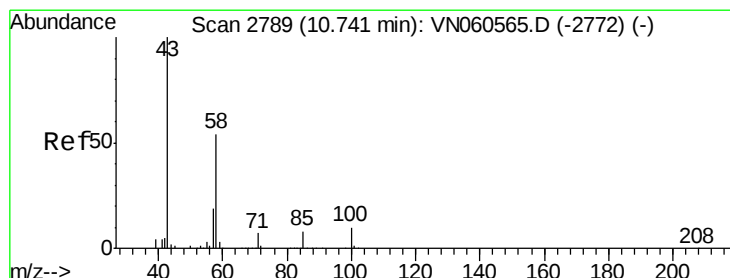
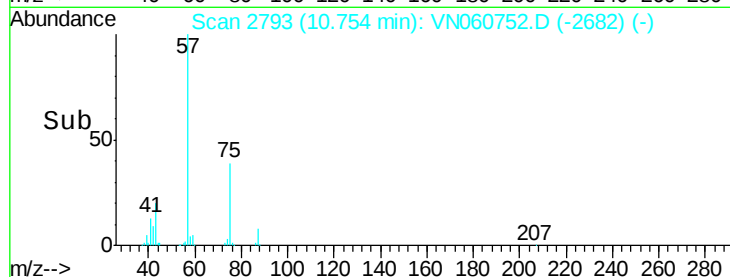
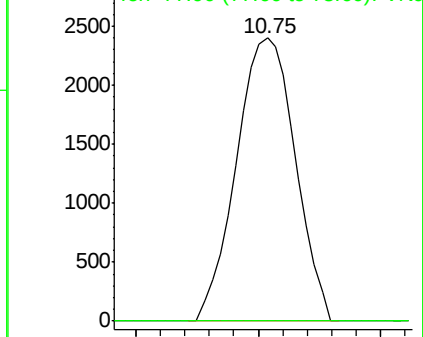
76 100

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: 25.855 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060752.D

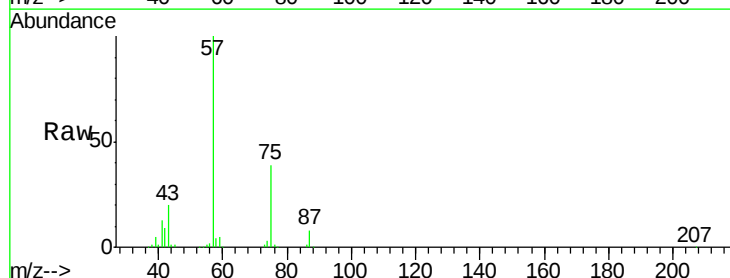
Acq: 27 Mar 2020 19:31

Tgt Ion: 43 Resp: 60027

Ion Ratio Lower Upper

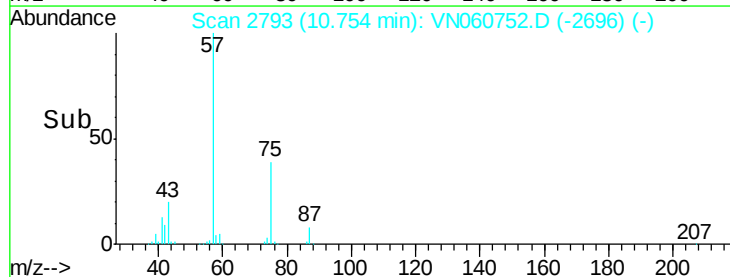
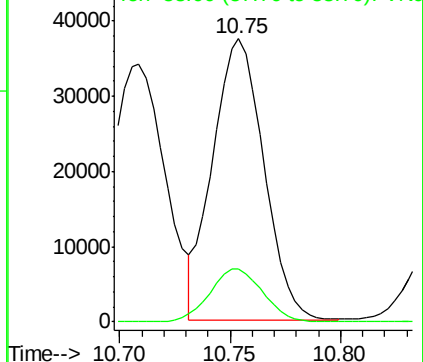
43 100

58 19.5 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: 51.034 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

RO-350

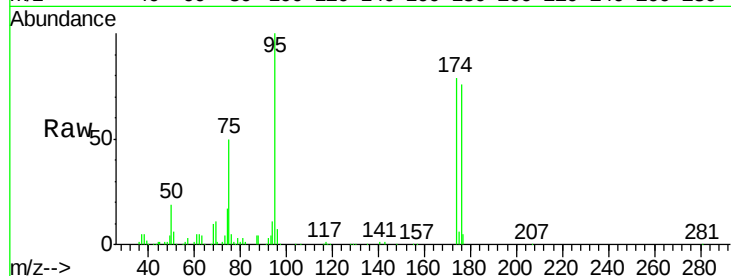
Tgt Ion: 95 Resp: 151629

Ion Ratio Lower Upper

95 100

174 78.4 0.0 157.6

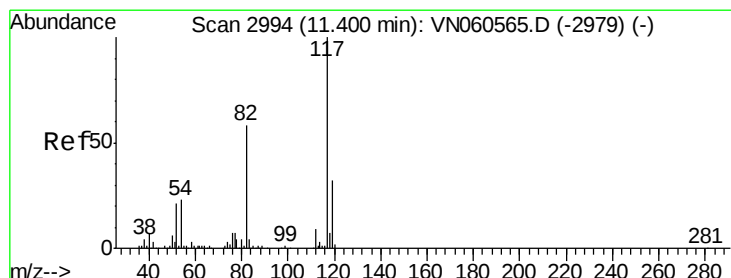
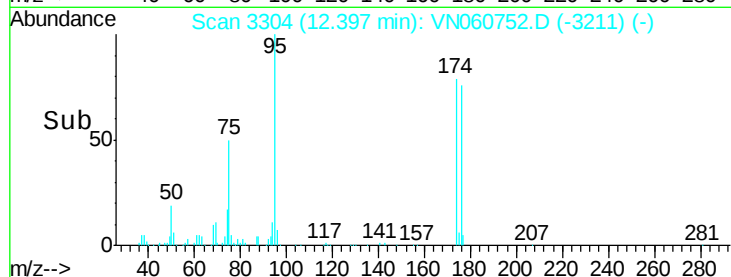
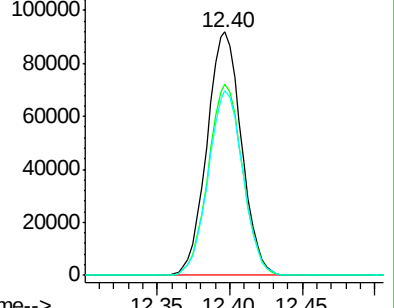
176 76.1 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060752.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060752.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060752.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

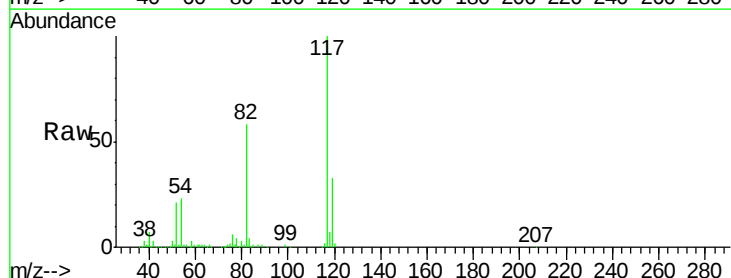
Tgt Ion: 117 Resp: 311608

Ion Ratio Lower Upper

117 100

82 58.1 46.7 70.1

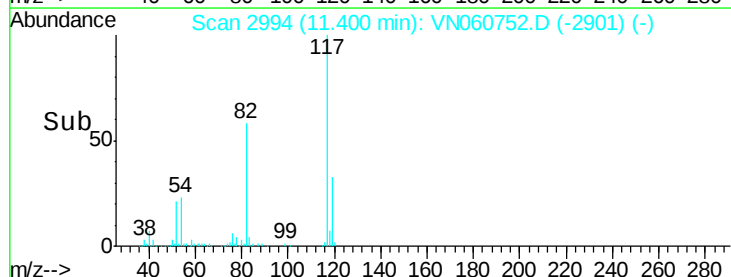
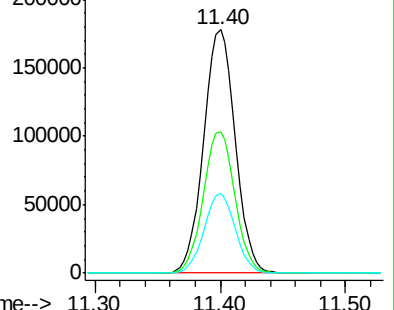
119 32.6 25.5 38.3

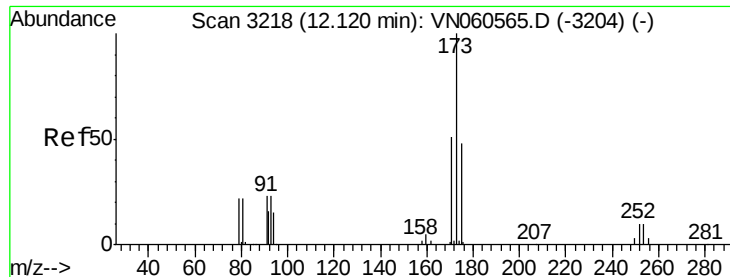


Abundance Ion 116.90 (116.60 to 117.60): VN060752.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060752.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060752.D (-2979) (-)





#71

Bromoform

Concen: 1.790 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.27 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

RO-350

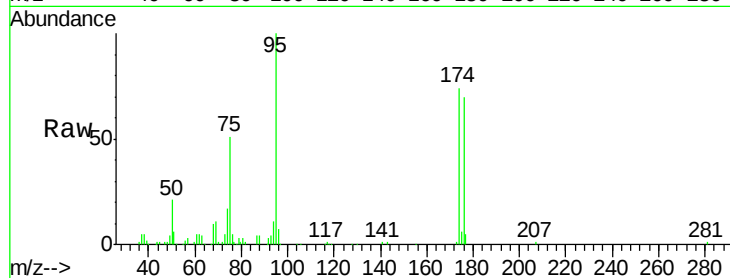
Tgt Ion:173 Resp: 210

Ion Ratio Lower Upper

173 100

175 3555.2 24.1 72.4#

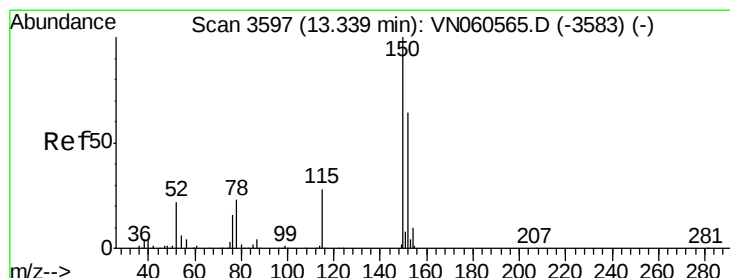
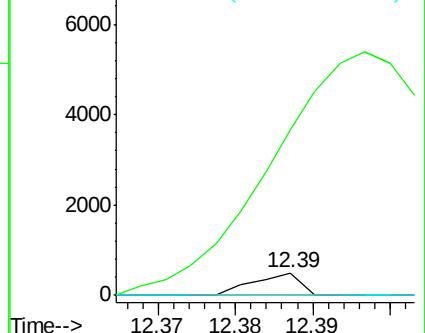
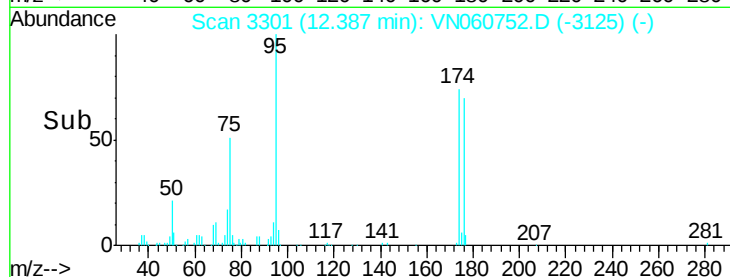
254 0.0 0.0 0.0



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: VN060752.D

Acq: 27 Mar 2020 19:31

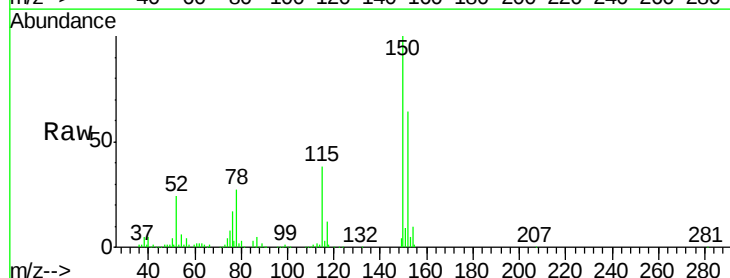
Tgt Ion:152 Resp: 141687

Ion Ratio Lower Upper

152 100

115 59.3 30.2 90.6

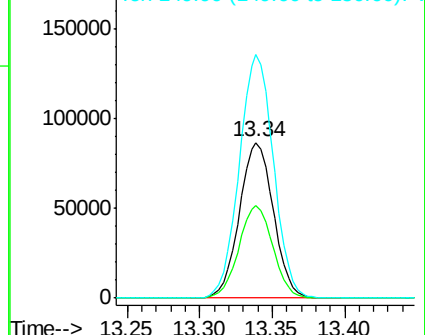
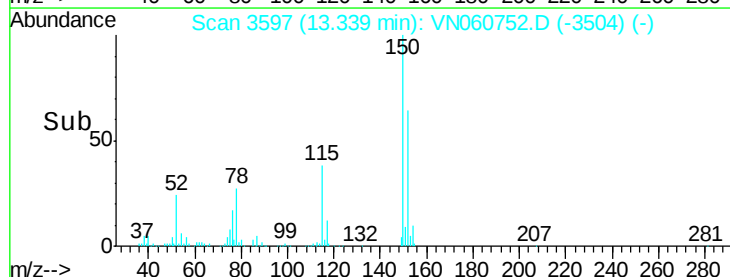
150 157.0 0.0 350.2

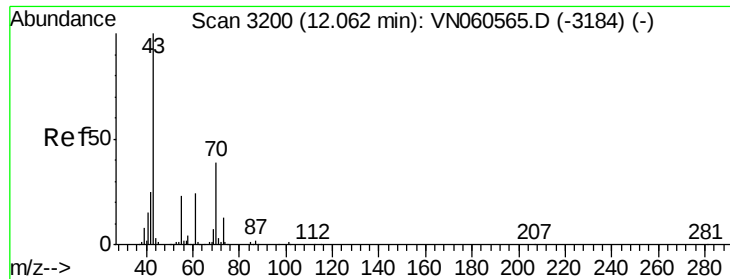


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.661 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

Instrument :

MSVOA_N

ClientSampled :

RO-350

Tgt Ion: 43 Resp: 3248

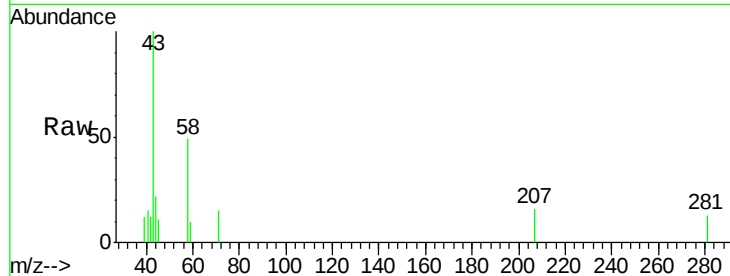
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

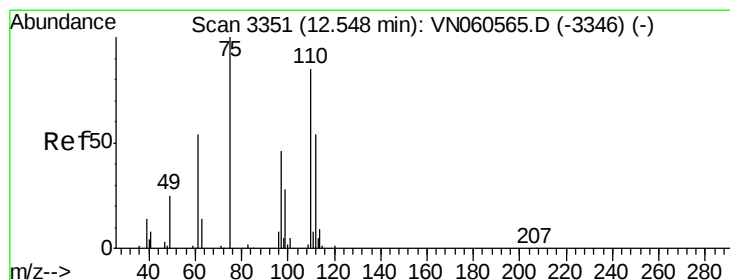
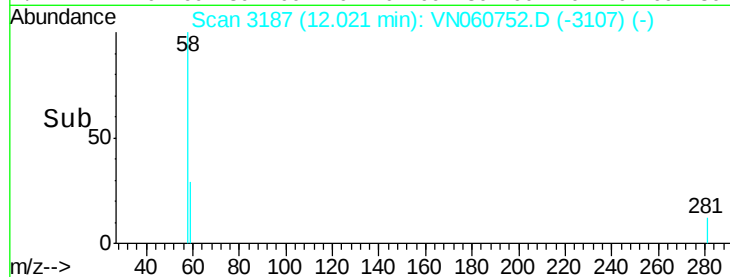
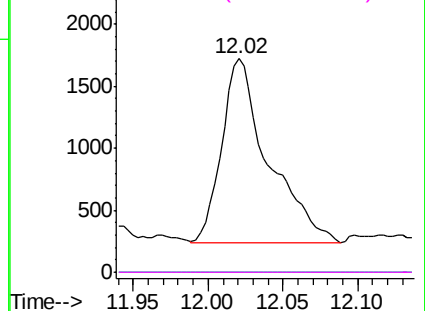


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.044 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060752.D

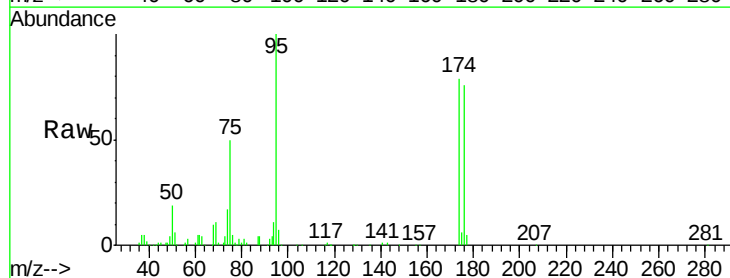
Acq: 27 Mar 2020 19:31

Tgt Ion: 75 Resp: 76566

Ion Ratio Lower Upper

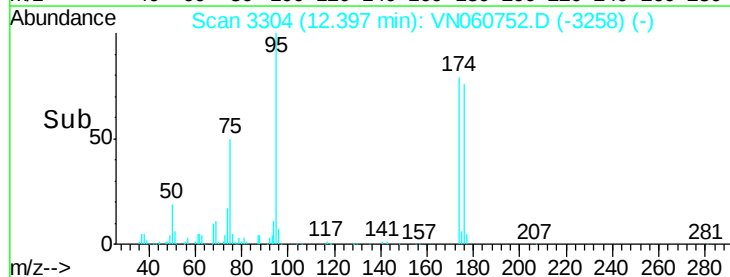
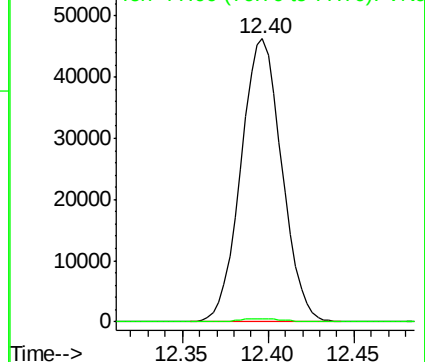
75 100

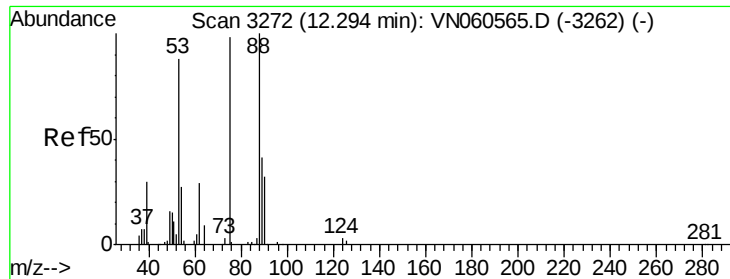
77 1.2 0.0 0.0#



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: 64.319 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060752.D

Acq: 27 Mar 2020 19:31

Instrument :

MSVOA_N

ClientSampleId :

RO-350

Tgt Ion: 75 Resp: 76566

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

