

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060290.D
 Acq On : 28 Feb 2020 17:20
 Operator : JC/MD
 Sample : L1718-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

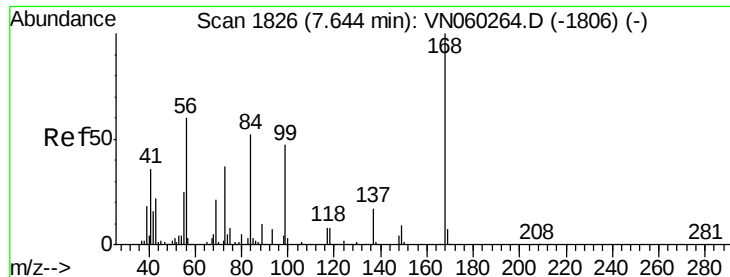
Quant Time: Feb 29 00:39:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	328419	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	308774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148891	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	127616	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
35) Dibromofluoromethane	7.56	113	90160	59.14	ug/l	0.00
Spiked Amount			Recovery	=	118.28%	
50) Toluene-d8	10.08	98	403727	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
62) 4-Bromofluorobenzene	12.40	95	152078	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.83	96	30	Below Cal	#	1
16) Acetone	3.79	43	11953	14.278	ug/l	98
17) Carbon Disulfide	4.02	76	29	Below Cal	#	75
18) Methyl Acetate	4.29	43	962	0.344	ug/l #	58
20) Methylene Chloride	4.52	84	5520	2.401	ug/l #	94
21) trans-1,2-Dichloroethene	4.96	96	162	Below Cal	#	1
25) 2-Butanone	6.81	43	1907	1.410	ug/l	98
31) Cyclohexane	7.64	56	4424	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16014	5.116	ug/l #	49
37) Ethyl Acetate	6.81	43	1907	0.643	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19622	6.439	ug/l #	16
43) Isopropyl Acetate	8.14	43	54191	10.444	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	948	0.398	ug/l #	44
48) Methyl methacrylate	9.16	41	2855	1.207	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4846	1.647	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	22945	5.749	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	3646	0.971	ug/l #	42
59) 2-Hexanone	10.75	43	53020	24.547	ug/l #	52
74) N-amyl acetate	12.02	43	4267	0.885	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	79537	24.348	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79537	67.212	ug/l #	8
87) 1,3-Dichlorobenzene	13.27	146	63	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.35	146	98	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.25	75	179	0.264	ug/l #	3
95) Naphthalene	15.13	128	725	Below Cal	#	69

(#) = 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: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

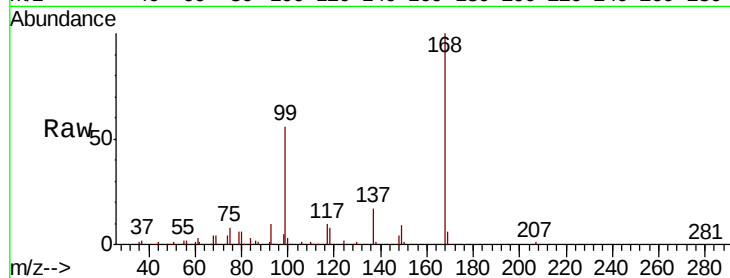
ClientSampled :

Tot Ion:168 Resp: 202058

Ion Ratio Lower Upper

168 100

99 56.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

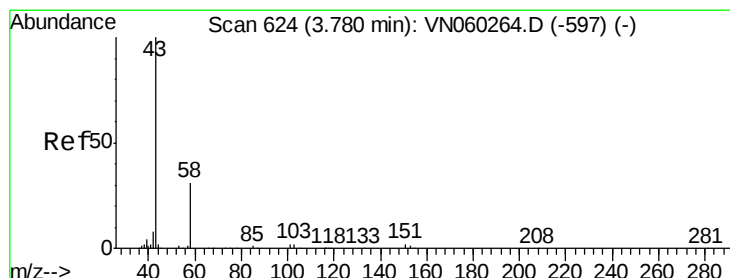
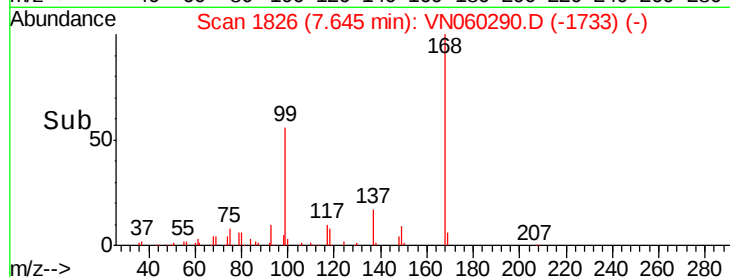
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 14.278 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060290.D

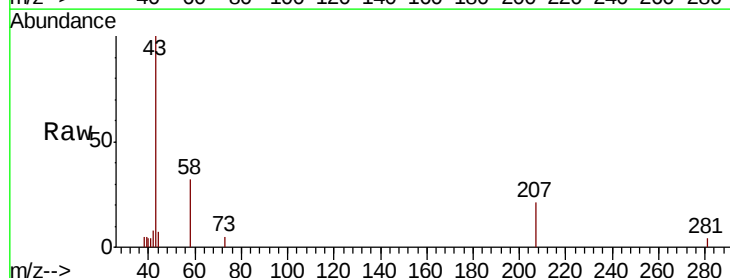
Acq: 28 Feb 2020 17:20

Tgt Ion: 43 Resp: 11953

Ion Ratio Lower Upper

43 100

58 32.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

5000

4000

3000

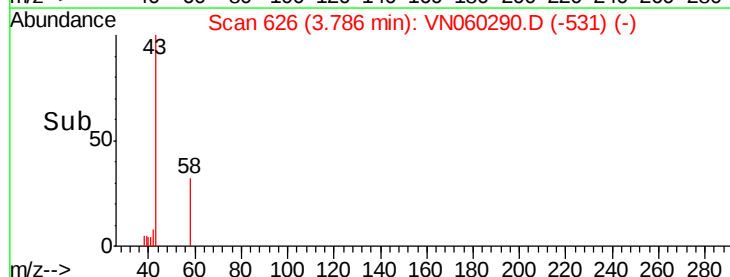
2000

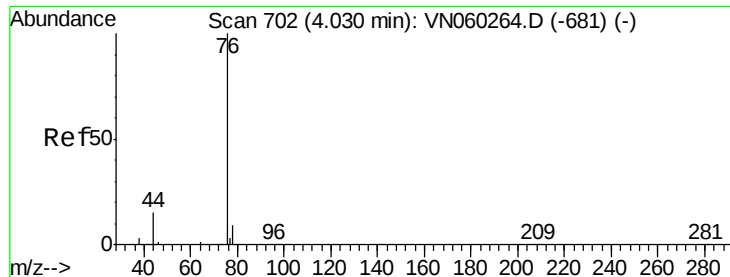
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

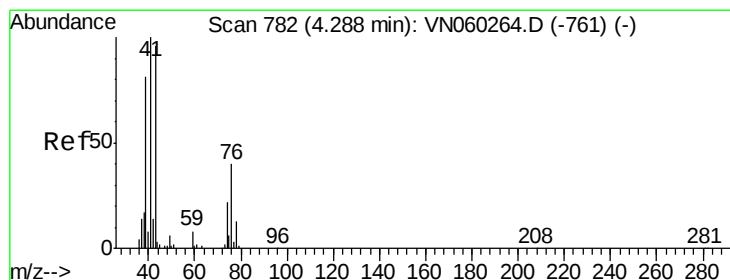
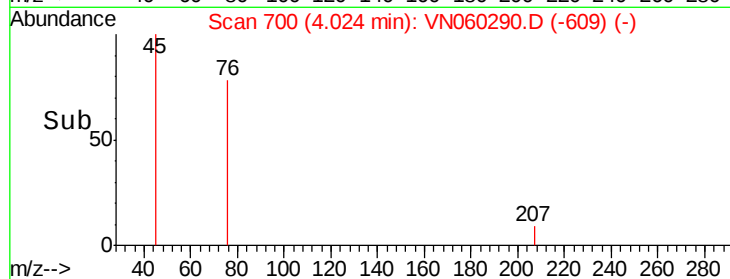
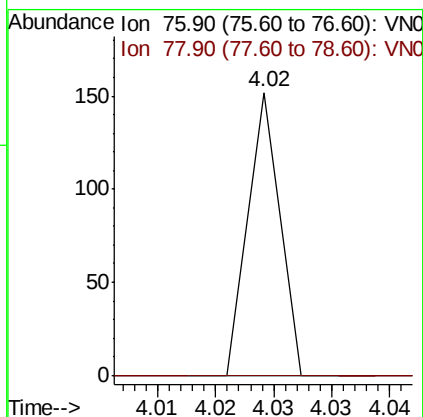
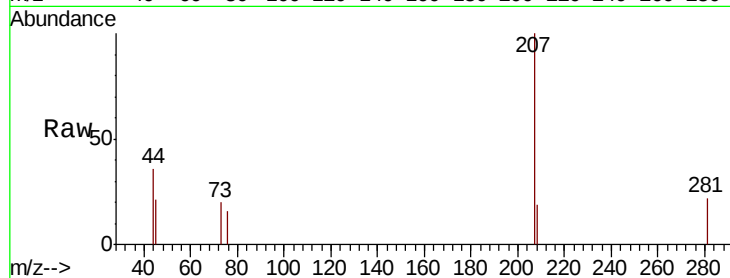




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.02 min Scan# 700
Delta R.T. -0.01 min
Lab File: VN060290.D
Acq: 28 Feb 2020 17:20

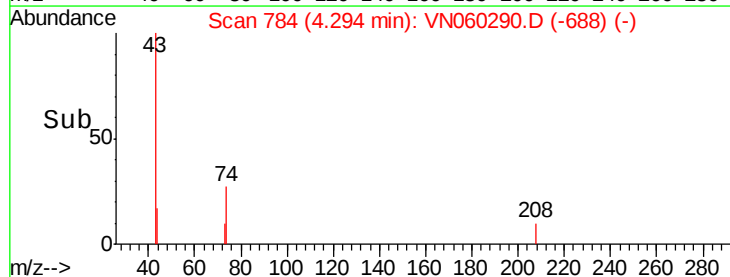
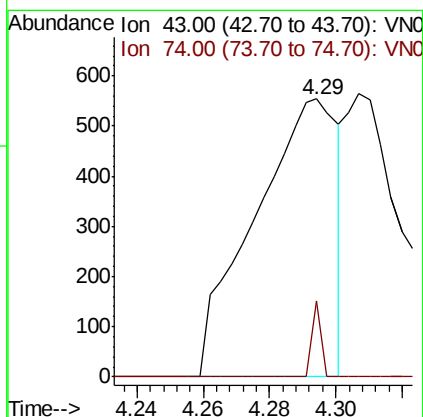
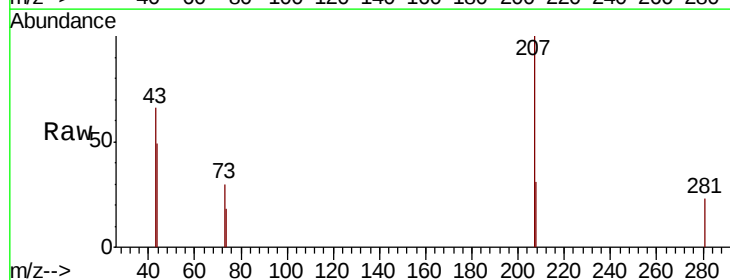
Instrument :
MSVOA_N
ClientSampleId :

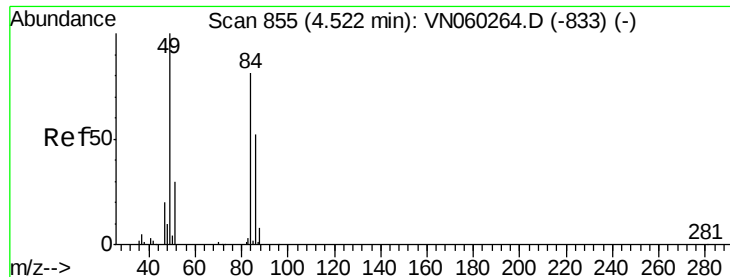
Tot Ion: 76 Resp: 29
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.344 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060290.D
Acq: 28 Feb 2020 17:20

Tgt Ion: 43 Resp: 962
Ion Ratio Lower Upper
43 100
74 3.0 18.8 28.2#





#20

Methylene Chloride

Concen: 2.401 ug/l

RT: 4.52 min Scan# 855

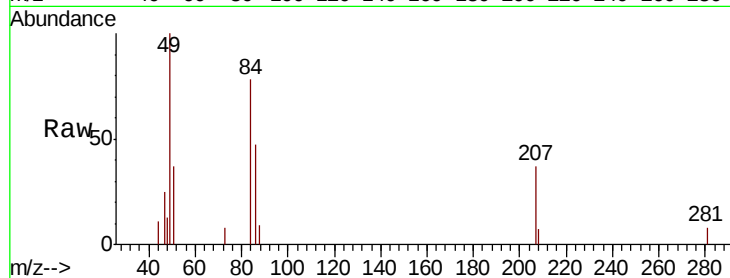
Delta R.T. 0.00 min

Lab File: VN060290.D

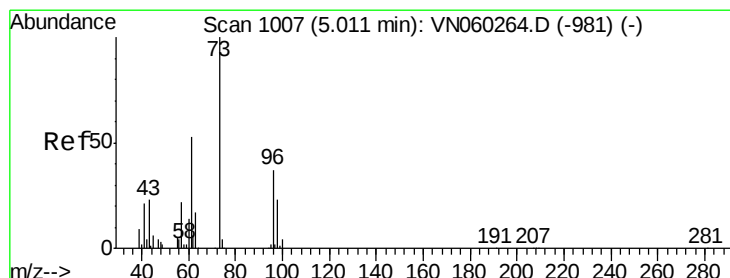
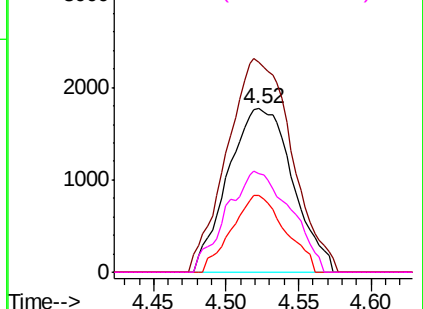
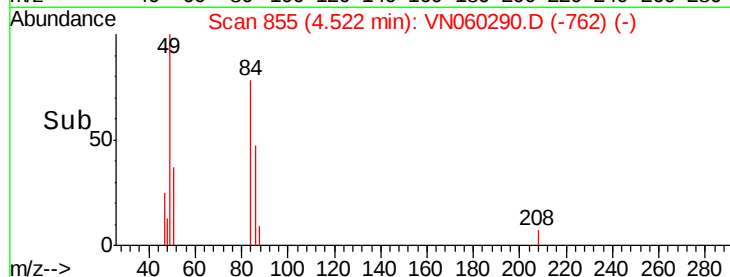
Acq: 28 Feb 2020 17:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	5520
Ion	Ratio	Lower	Upper
84	100		
49	128.7	99.3	148.9
51	47.2	30.1	45.1#
86	60.7	51.1	76.7



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



#21

trans-1,2-Dichloroethene

Concen: Below Cal

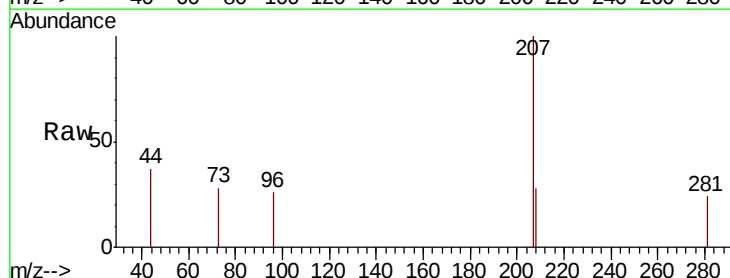
RT: 4.96 min Scan# 992

Delta R.T. -0.05 min

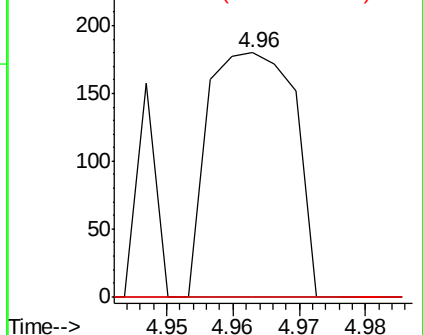
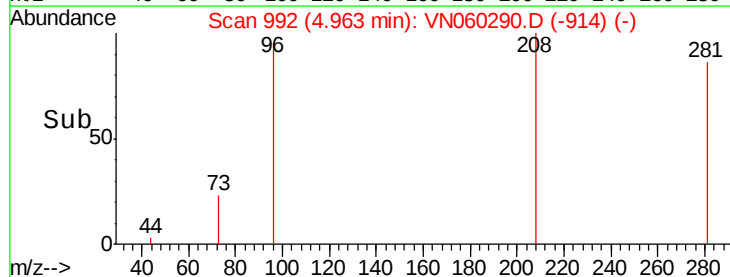
Lab File: VN060290.D

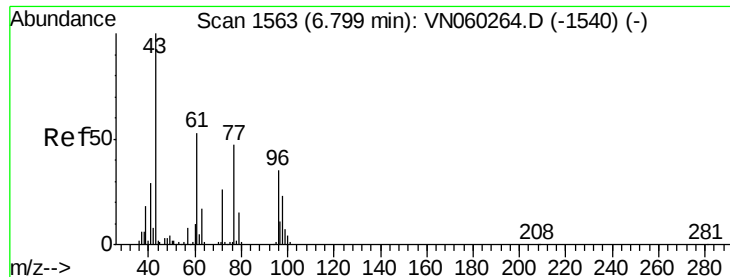
Acq: 28 Feb 2020 17:20

Tgt Ion:	96	Resp:	162
Ion	Ratio	Lower	Upper
96	100		
61	0.0	113.8	170.8#
98	0.0	48.8	73.2#



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO

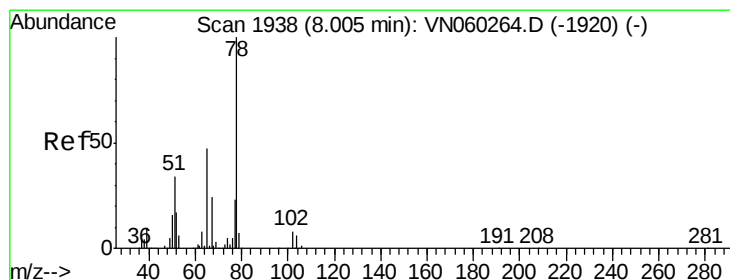
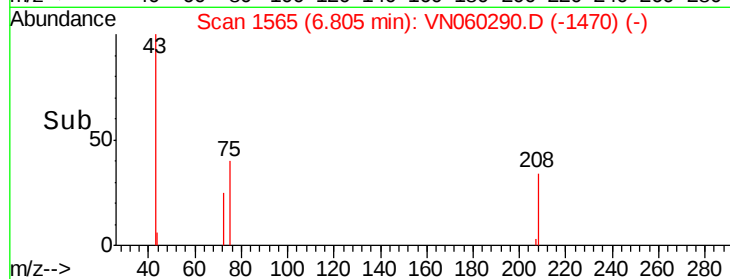
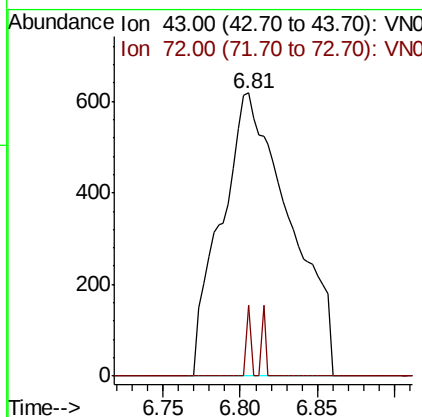
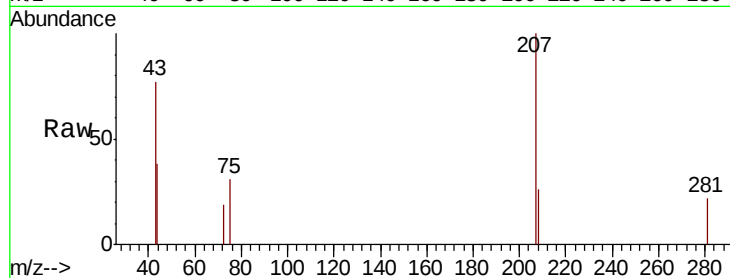




#25
 2-Butanone
 Concen: 1.410 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VN060290.D
 Acq: 28 Feb 2020 17:20

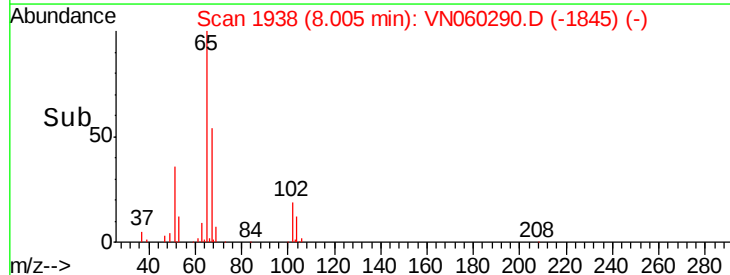
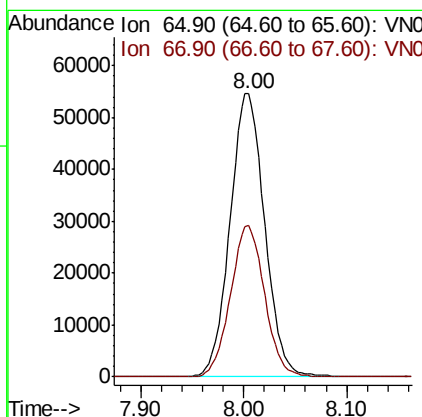
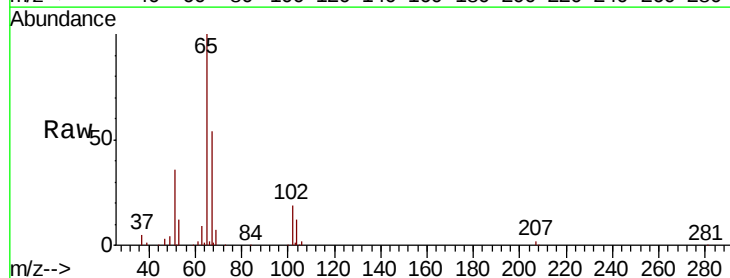
Instrument :
 MSVOA_N
 ClientSampleId :

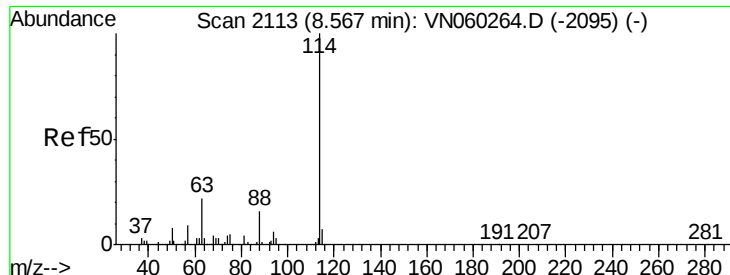
Tot Ion: 43 Resp: 1907
 Ion Ratio Lower Upper
 43 100
 72 24.9 20.9 31.3



#33
 1,2-Dichloroethane-d4
 Concen: 49.226 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060290.D
 Acq: 28 Feb 2020 17:20

Tgt Ion: 65 Resp: 127616
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.8

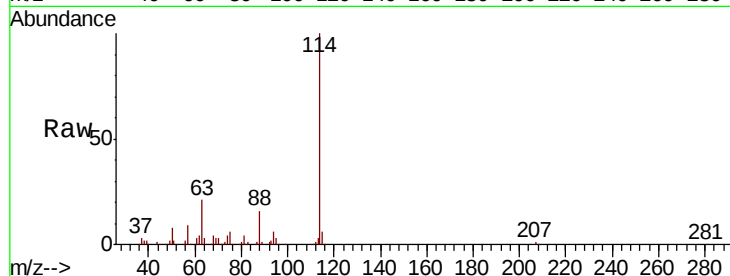




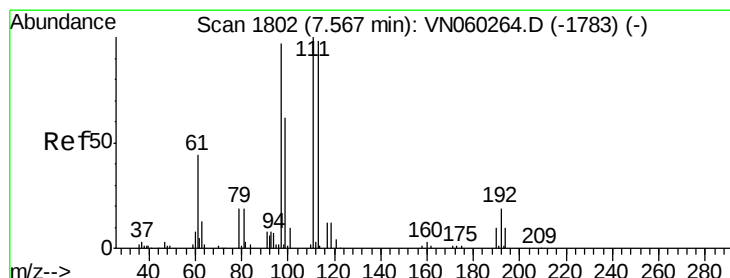
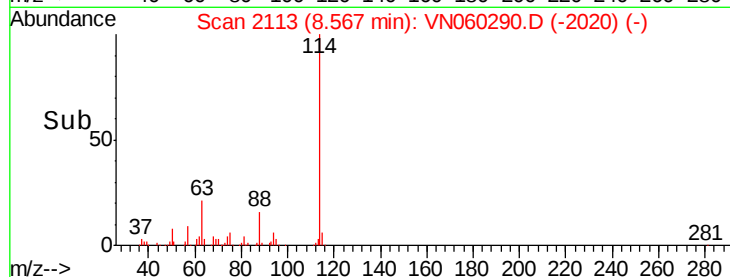
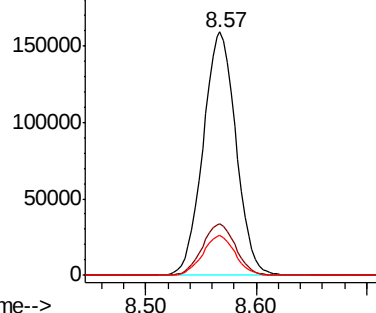
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060290.D
Acq: 28 Feb 2020 17:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.2
88	16.4	0.0	31.6

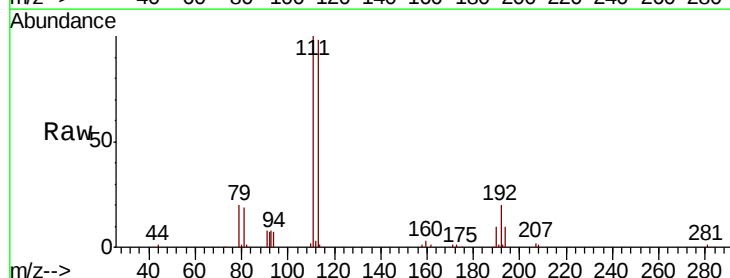


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

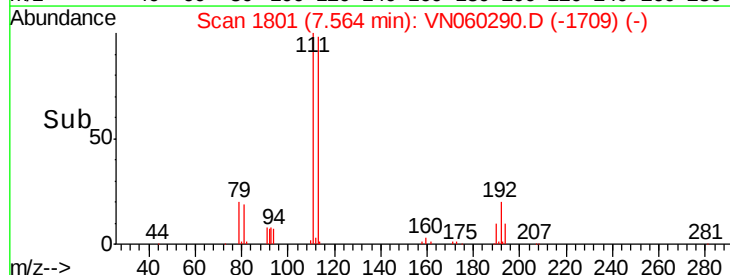
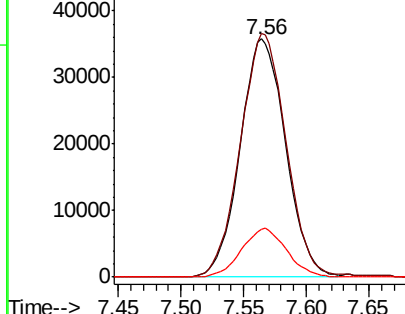


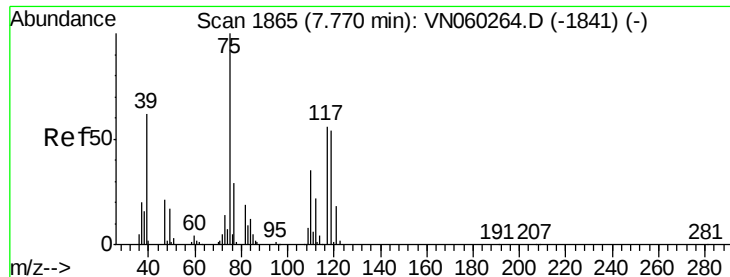
#35
Dibromofluoromethane
Concen: 59.144 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060290.D
Acq: 28 Feb 2020 17:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.4	123.6
192	20.1	16.2	24.2



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: 5.116 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

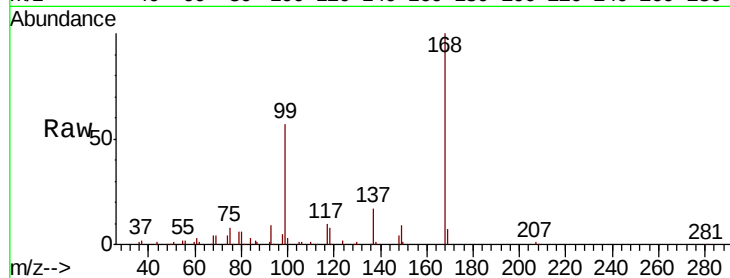
Tot Ion: 75 Resp: 16014

Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

77 0.0 24.2 36.2#

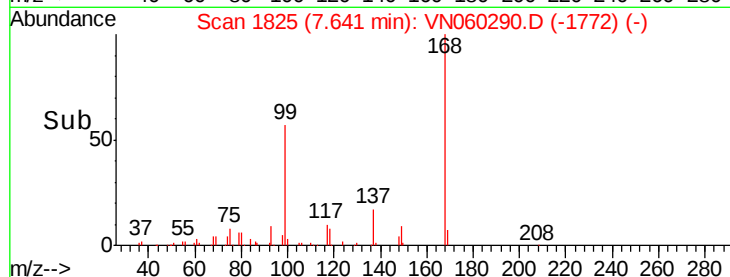


Abundance Ion 74.90 (74.60 to 75.60): VN060290.D (-1772) (-)

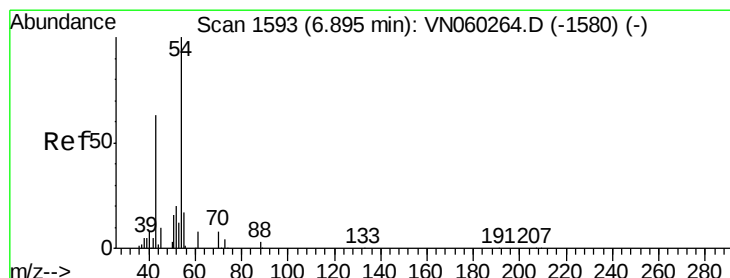
Ion 109.90 (109.60 to 110.60): VN060290.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060290.D (-1772) (-)

Time-->



Time-->



#37

Ethyl Acetate

Concen: 0.643 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

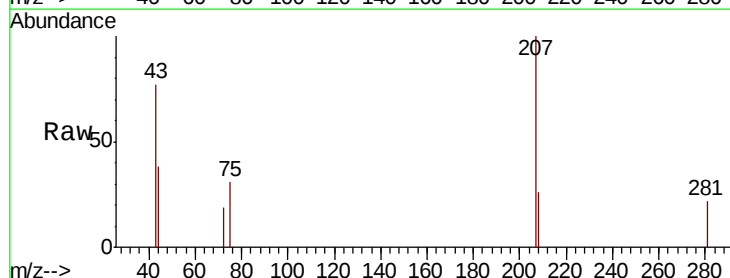
Tgt Ion: 43 Resp: 1907

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

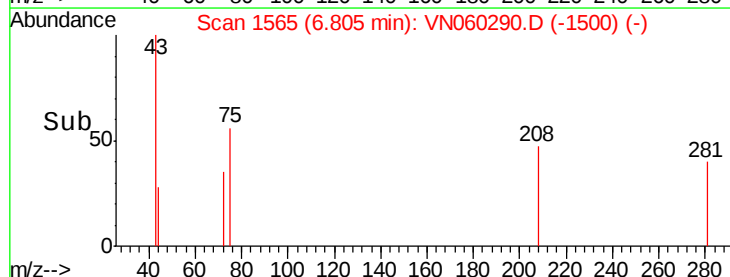


Abundance Ion 43.00 (42.70 to 43.70): VN060290.D (-1500) (-)

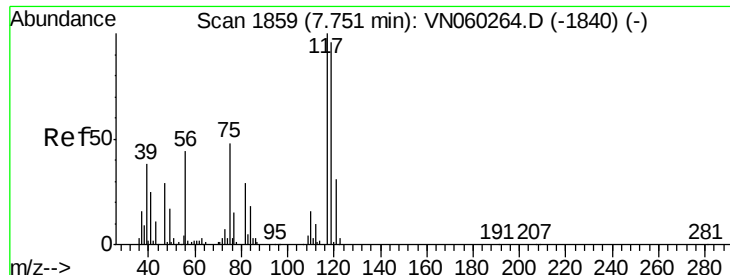
Ion 60.90 (60.60 to 61.60): VN060290.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060290.D (-1500) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.439 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

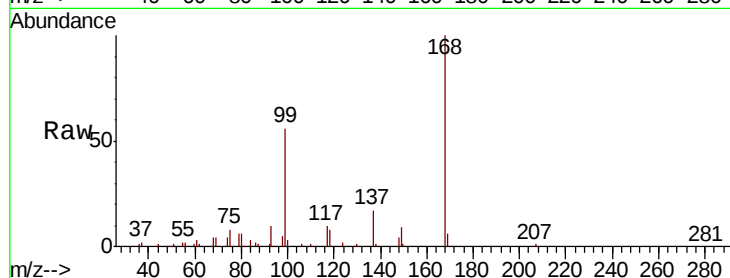
Tot Ion:117 Resp: 19622

Ion Ratio Lower Upper

117 100

119 5.2 76.7 115.1#

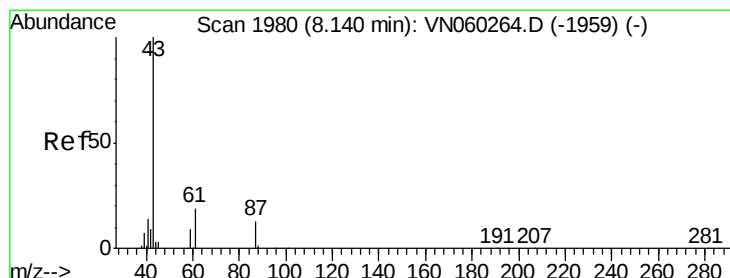
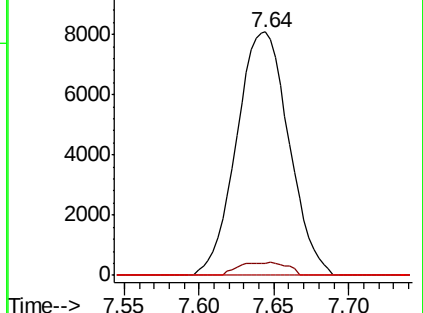
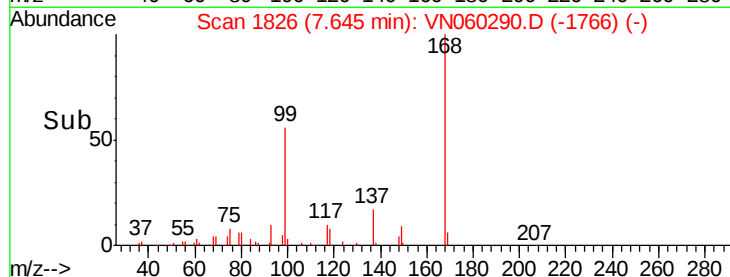
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.444 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

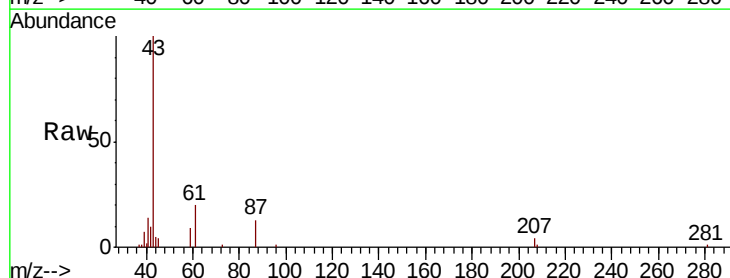
Tgt Ion: 43 Resp: 54191

Ion Ratio Lower Upper

43 100

61 18.5 20.9 31.3#

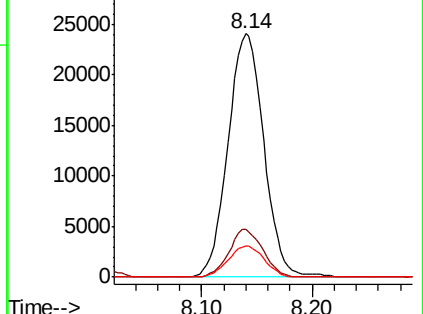
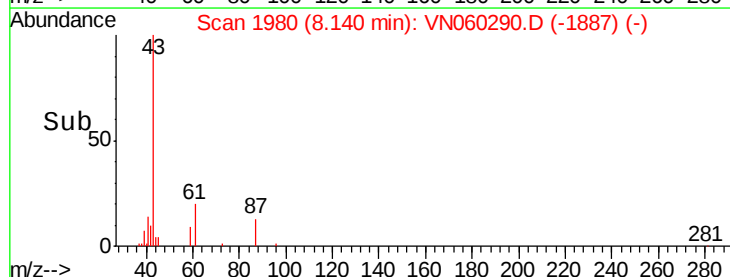
87 12.7 10.6 16.0

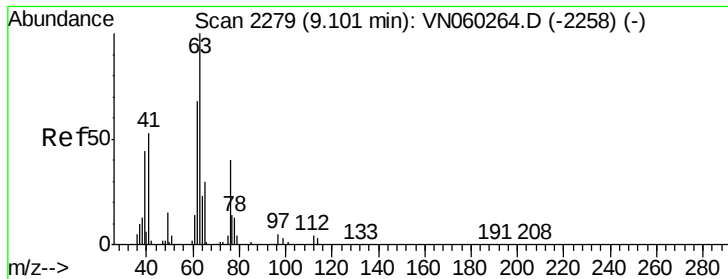


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.398 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

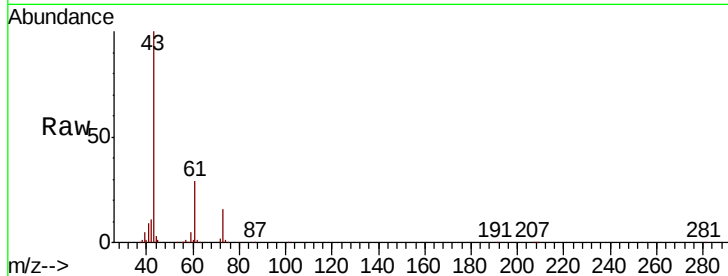
ClientSampleId :

Tot Ion: 63 Resp: 948

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.25

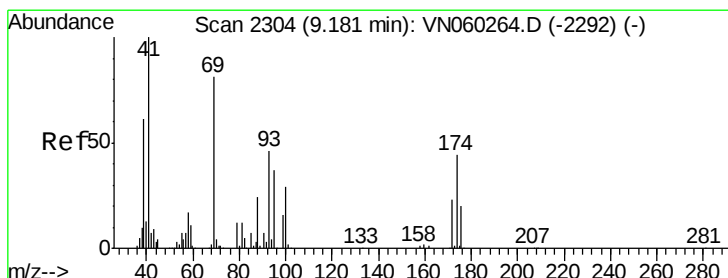
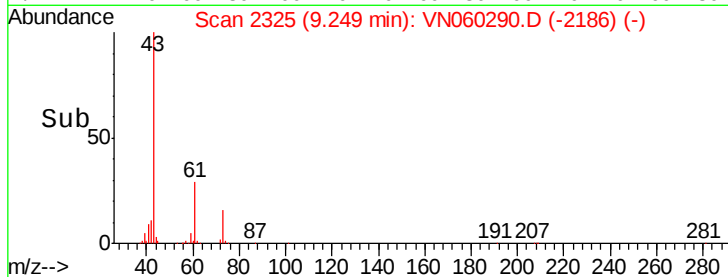
600

400

200

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.207 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

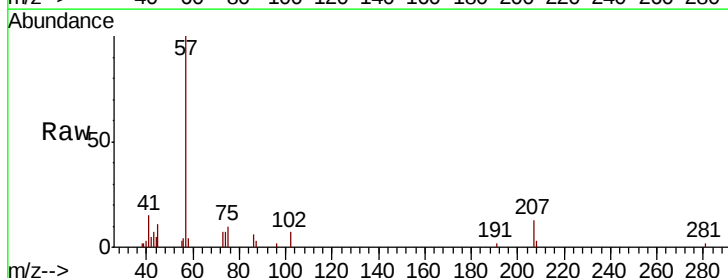
Tgt Ion: 41 Resp: 2855

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

20000

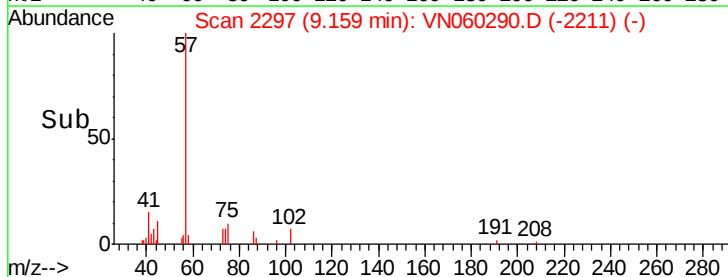
15000

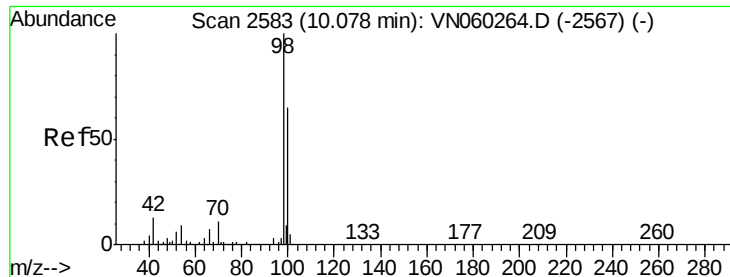
10000

5000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 52.328 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

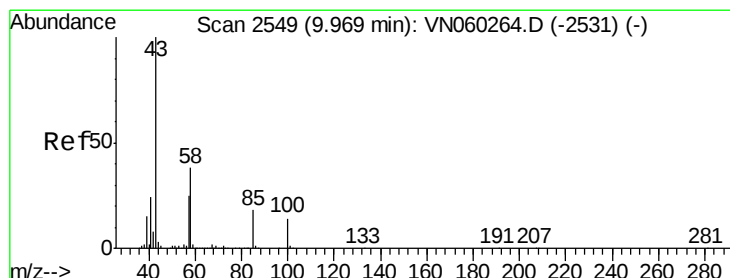
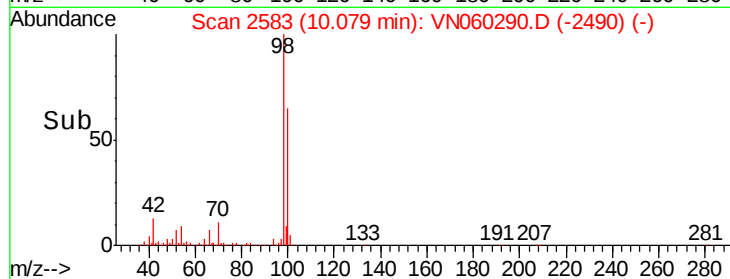
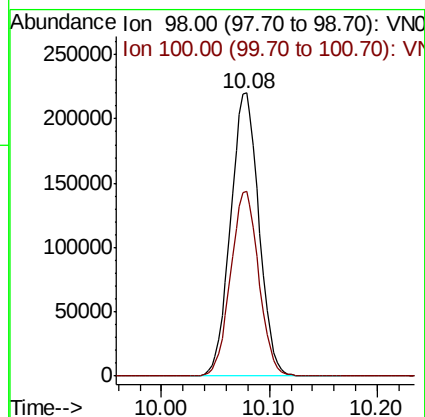
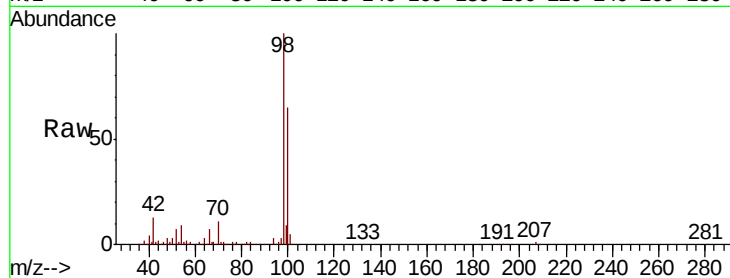
ClientSampled :

Tot Ion: 98 Resp: 403727

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.647 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060290.D

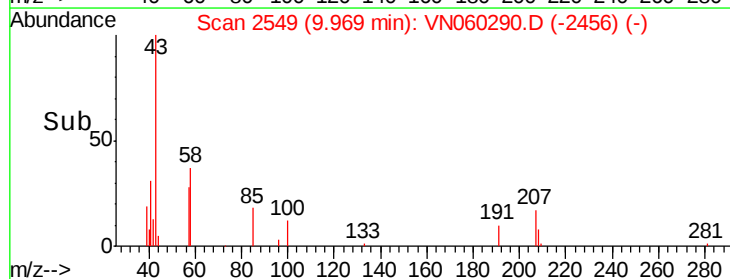
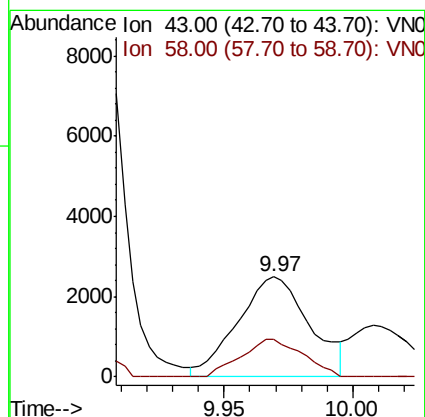
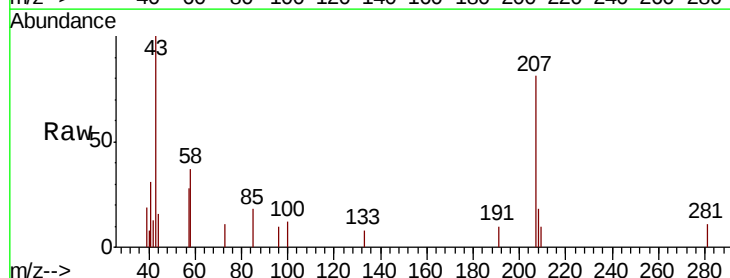
Acq: 28 Feb 2020 17:20

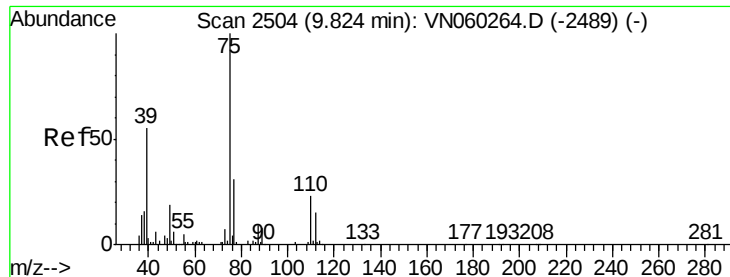
Tgt Ion: 43 Resp: 4846

Ion Ratio Lower Upper

43 100

58 32.3 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 5.749 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

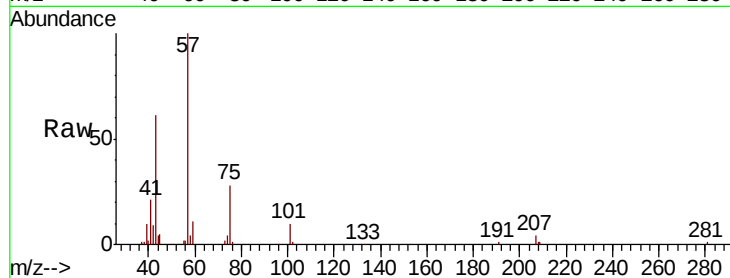
Tot Ion: 75 Resp: 22945

Ion Ratio Lower Upper

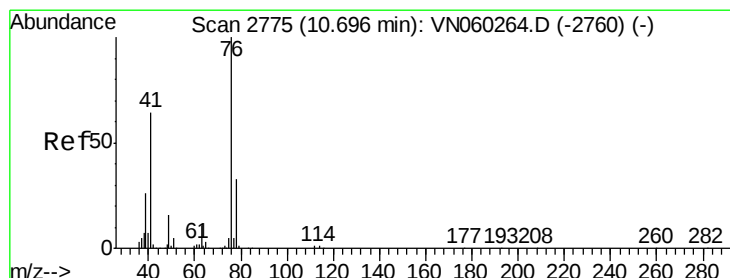
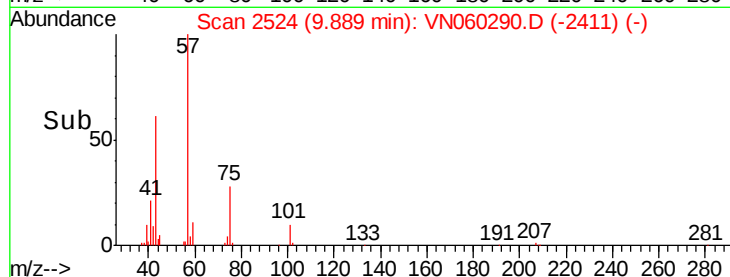
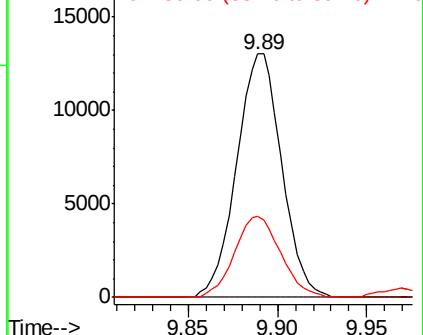
75 100

77 0.0 24.8 37.2#

39 33.5 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 0.971 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060290.D

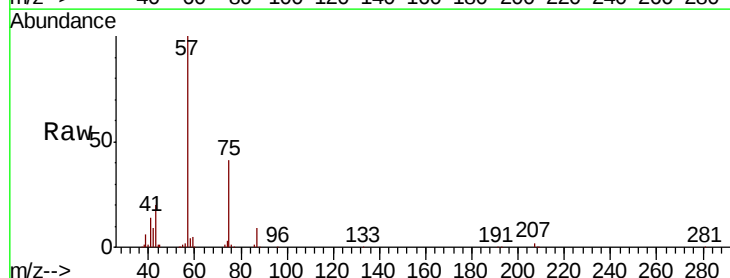
Acq: 28 Feb 2020 17:20

Tgt Ion: 76 Resp: 3646

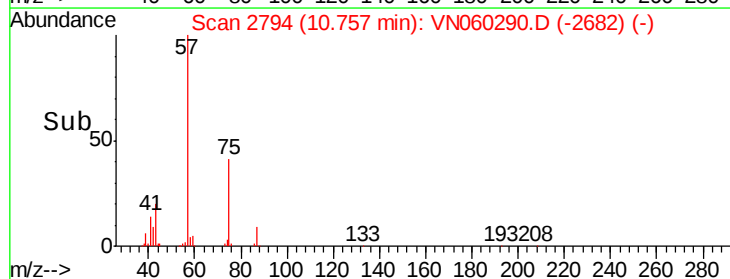
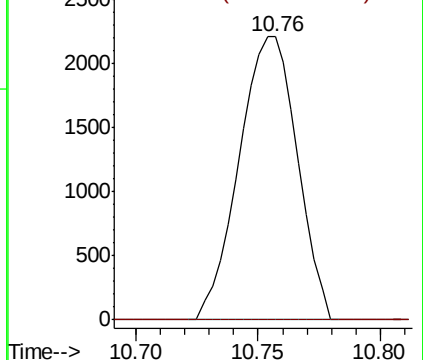
Ion Ratio Lower Upper

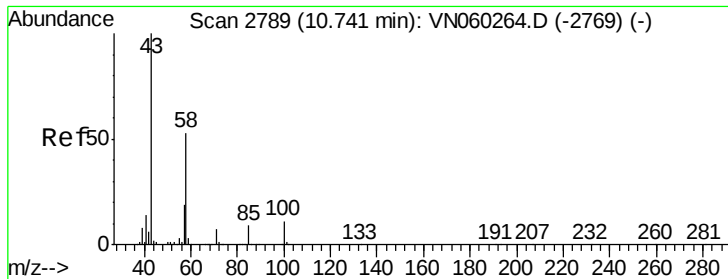
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO





#59

2-Hexanone

Concen: 24.547 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

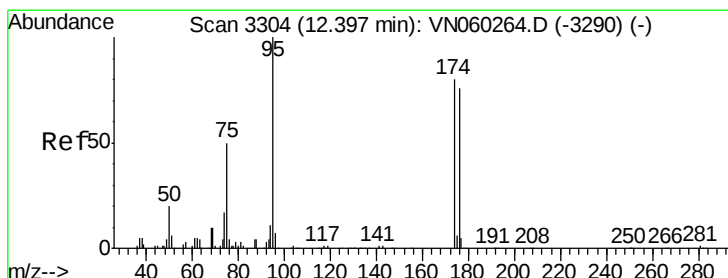
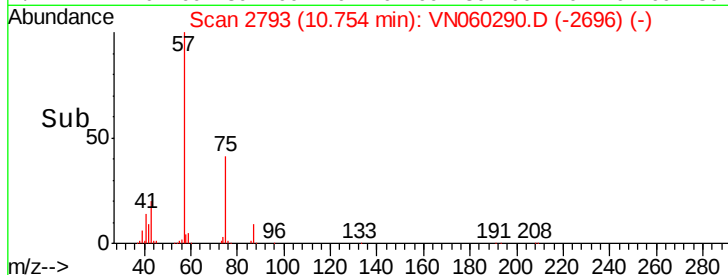
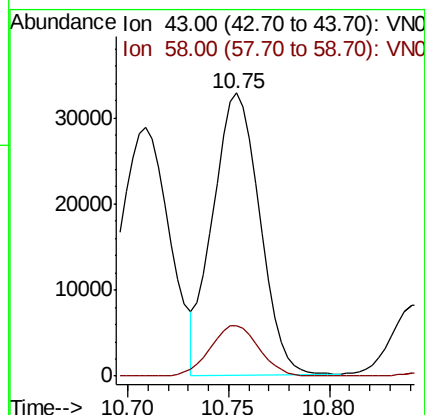
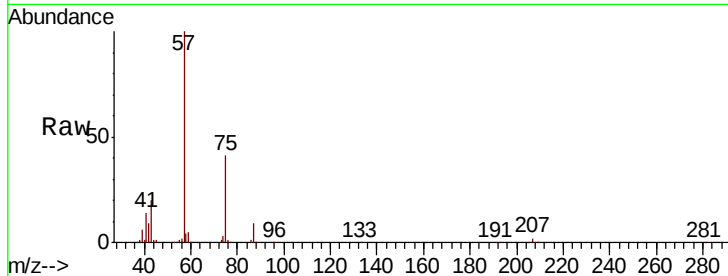
ClientSampleId :

Tot Ion: 43 Resp: 53020

Ion Ratio Lower Upper

43 100

58 18.6 26.5 79.5#



#62

4-Bromofluorobenzene

Concen: 51.998 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

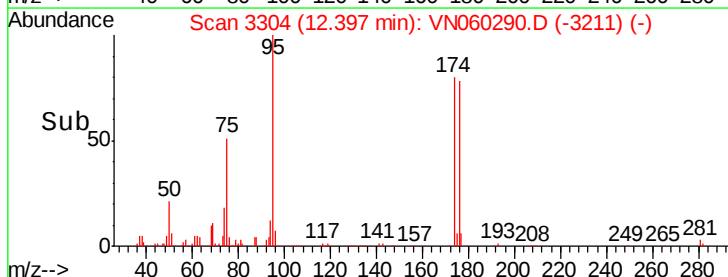
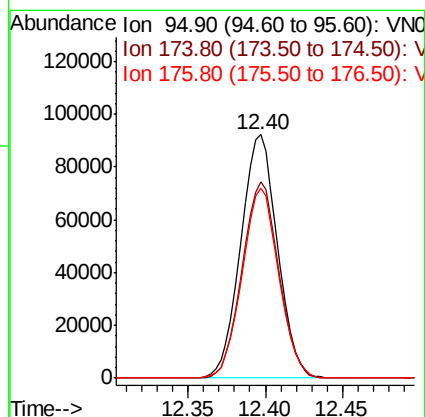
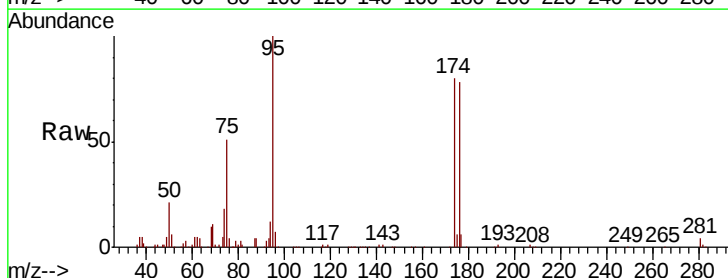
Tgt Ion: 95 Resp: 152078

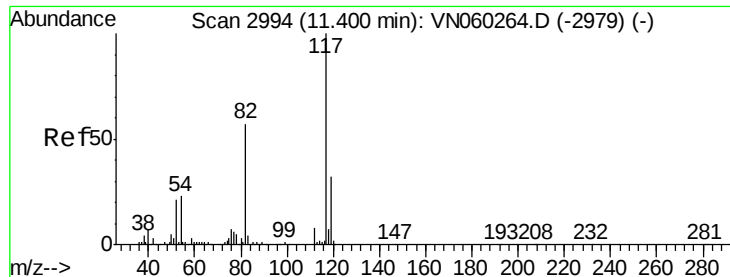
Ion Ratio Lower Upper

95 100

174 80.7 0.0 159.2

176 78.0 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

ClientSampled :

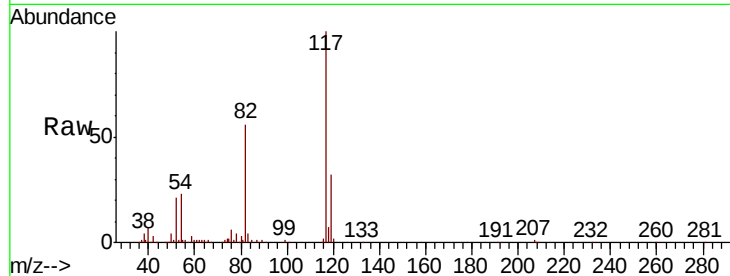
Tot Ion:117 Resp: 308774

Ion Ratio Lower Upper

117 100

82 56.2 45.8 68.6

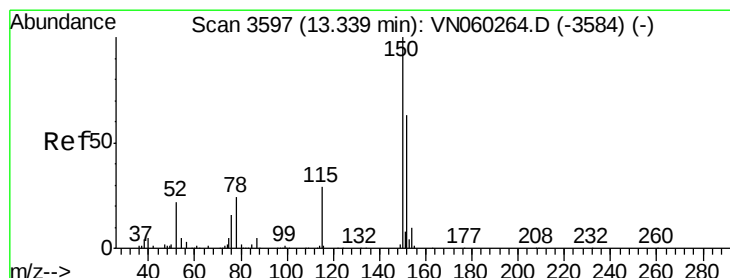
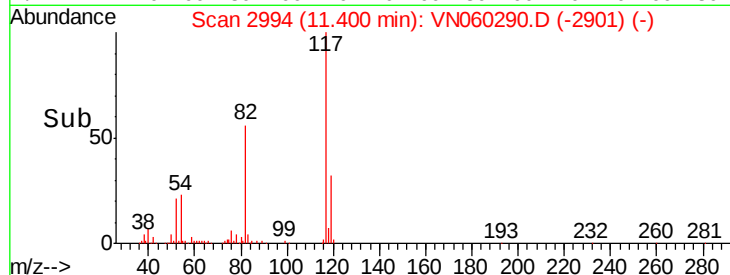
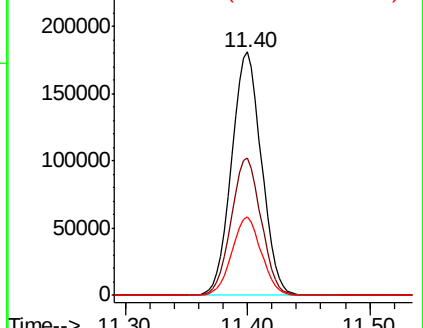
119 32.3 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): 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: VN060290.D

Acq: 28 Feb 2020 17:20

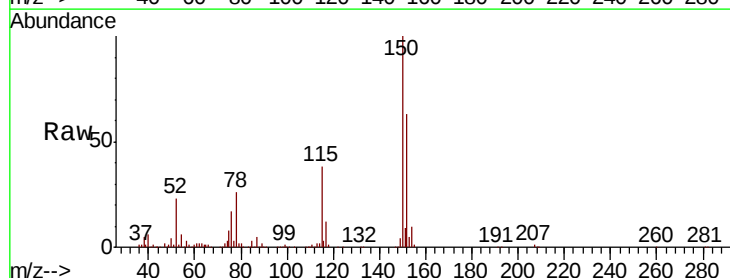
Tgt Ion:152 Resp: 148891

Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

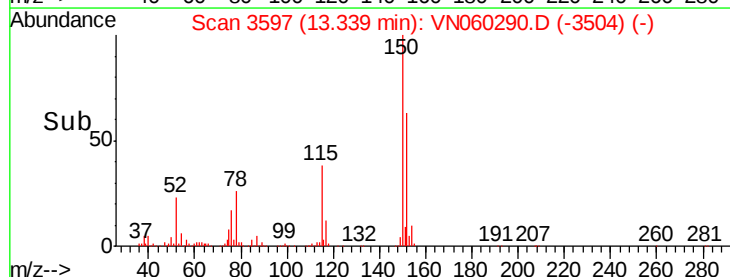
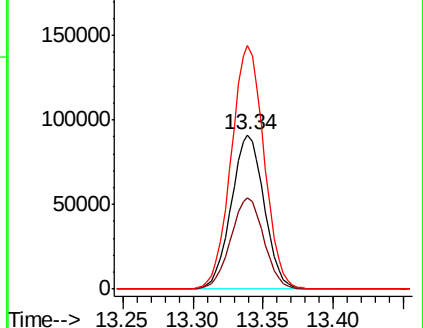
150 157.6 0.0 349.6

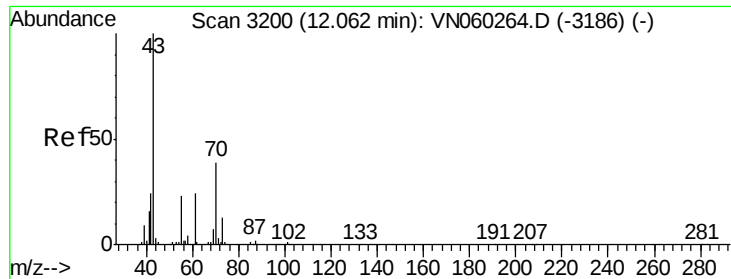


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.885 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4267

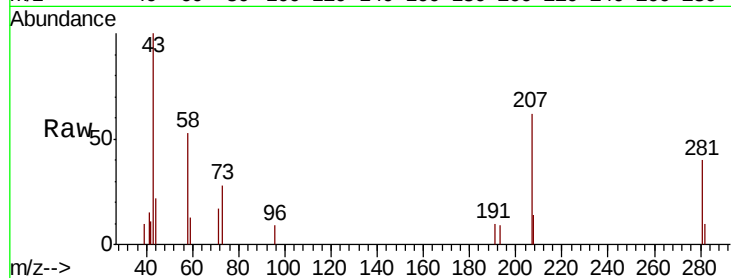
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

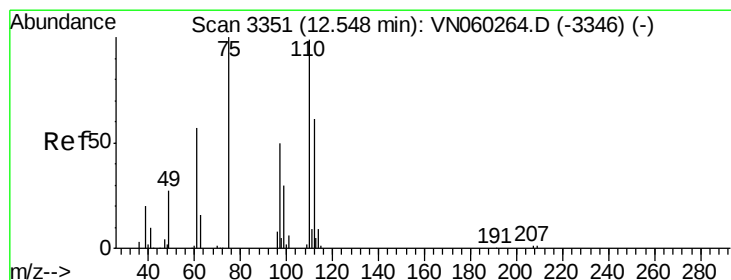
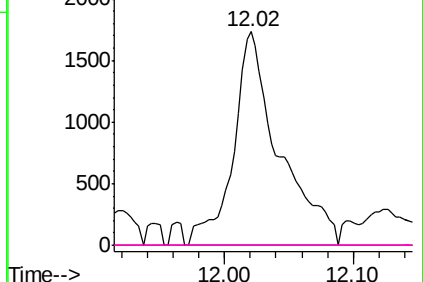
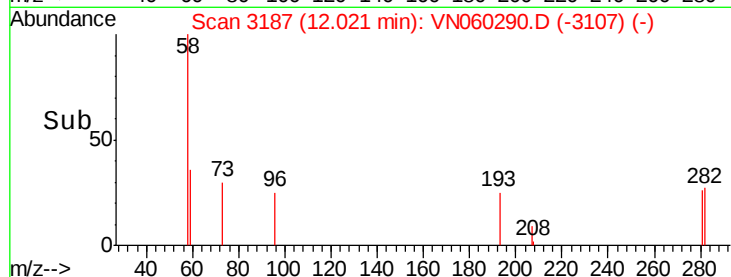


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.348 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060290.D

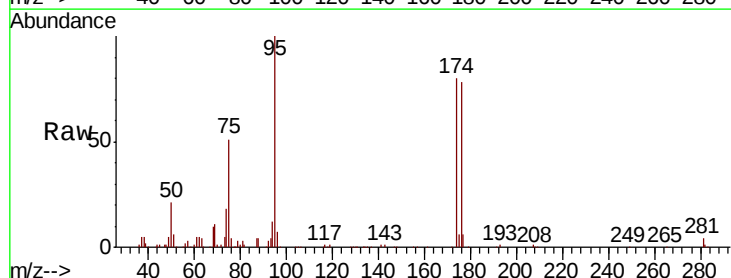
Acq: 28 Feb 2020 17:20

Tgt Ion: 75 Resp: 79537

Ion Ratio Lower Upper

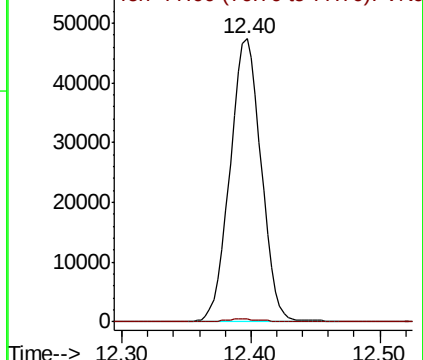
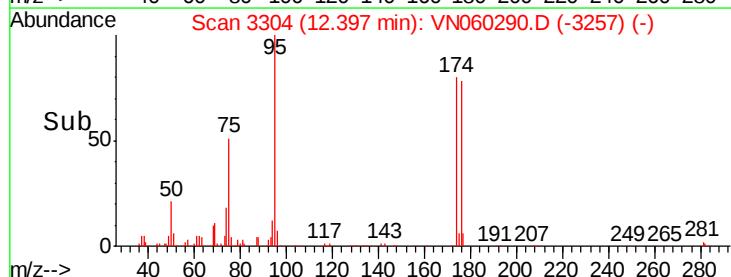
75 100

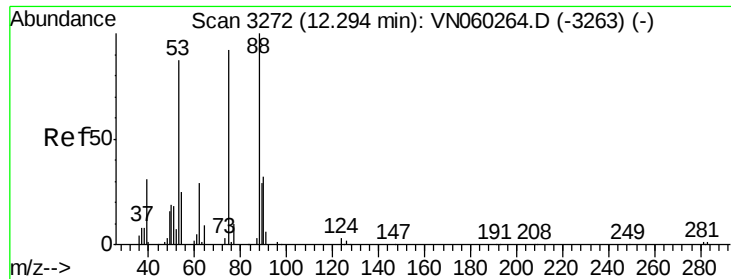
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.212 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

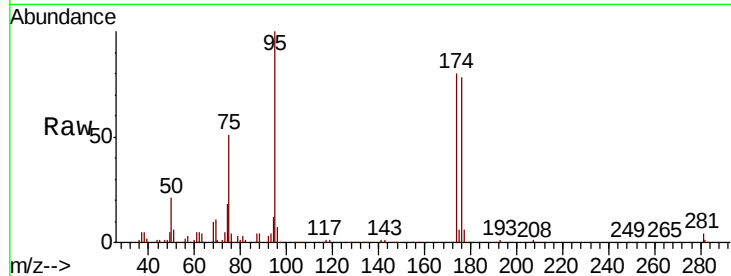
Tot Ion: 75 Resp: 79537

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

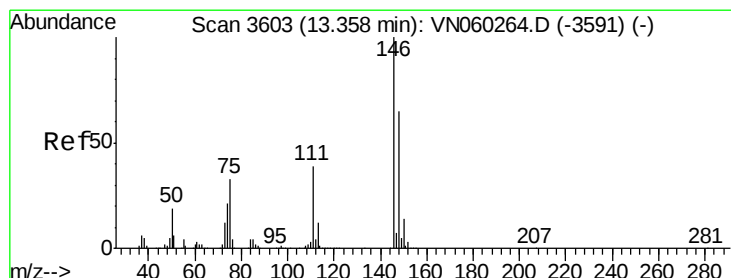
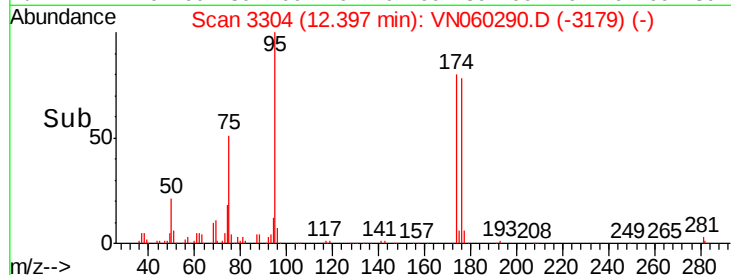
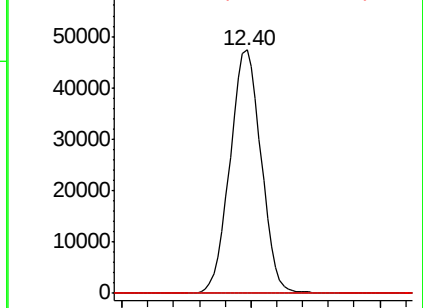
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060290.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060290.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060290.D (-3179) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.35 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

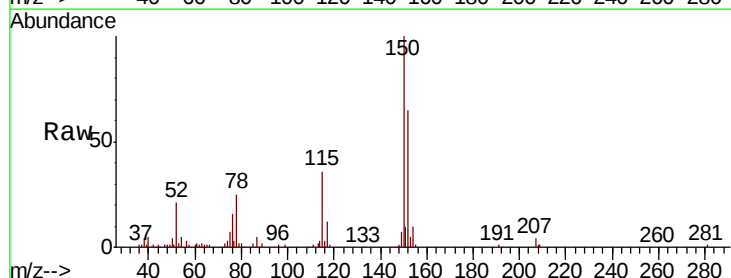
Tgt Ion: 146 Resp: 98

Ion Ratio Lower Upper

146 100

111 1927.6 19.8 59.4#

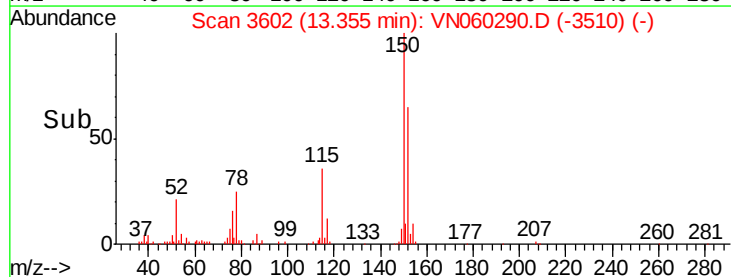
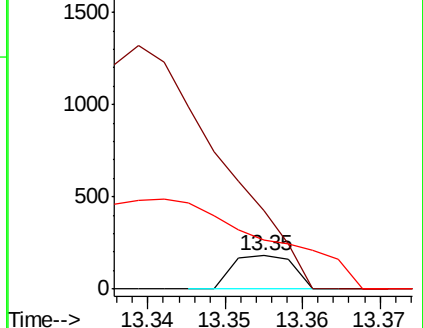
148 857.1 32.3 96.9#

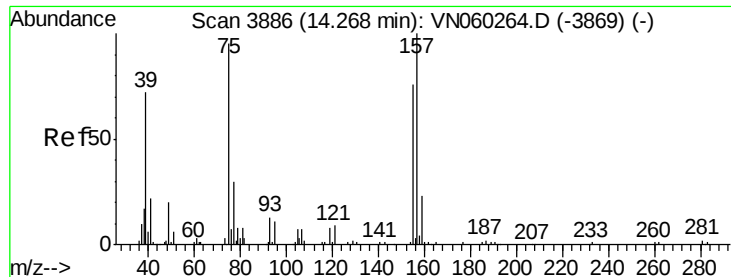


Abundance Ion 145.90 (145.60 to 146.60): VN060290.D (-3510) (-)

Ion 110.90 (110.60 to 111.60): VN060290.D (-3510) (-)

Ion 147.90 (147.60 to 148.60): VN060290.D (-3510) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.264 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN060290.D

Acq: 28 Feb 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

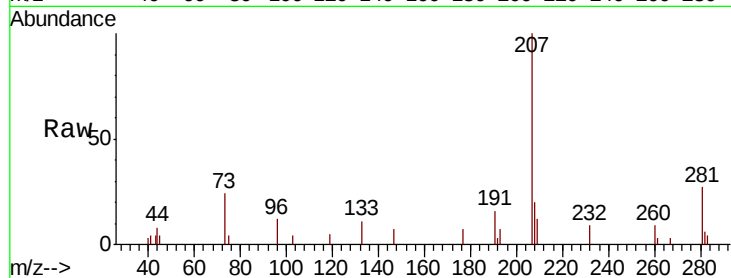
Tot Ion: 75 Resp: 179

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

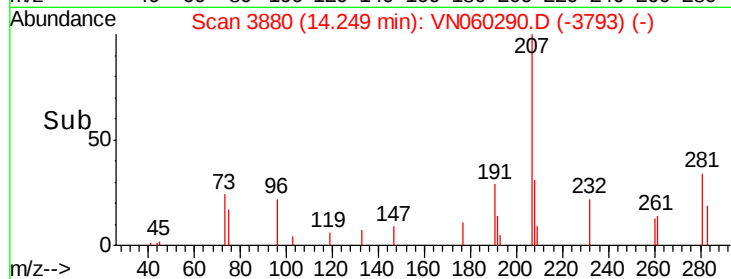
157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->