

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060522.D
 Acq On : 16 Mar 2020 14:52
 Operator : JC/MD
 Sample : L1933-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-12002

Quant Time: Mar 17 08:44:26 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	225199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	377120	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	350506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152808	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	145965	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
35) Dibromofluoromethane	7.56	113	110762	63.28	ug/l	0.00
Spiked Amount			Recovery	=	126.56%	
50) Toluene-d8	10.08	98	465764	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	12.40	95	169880	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	

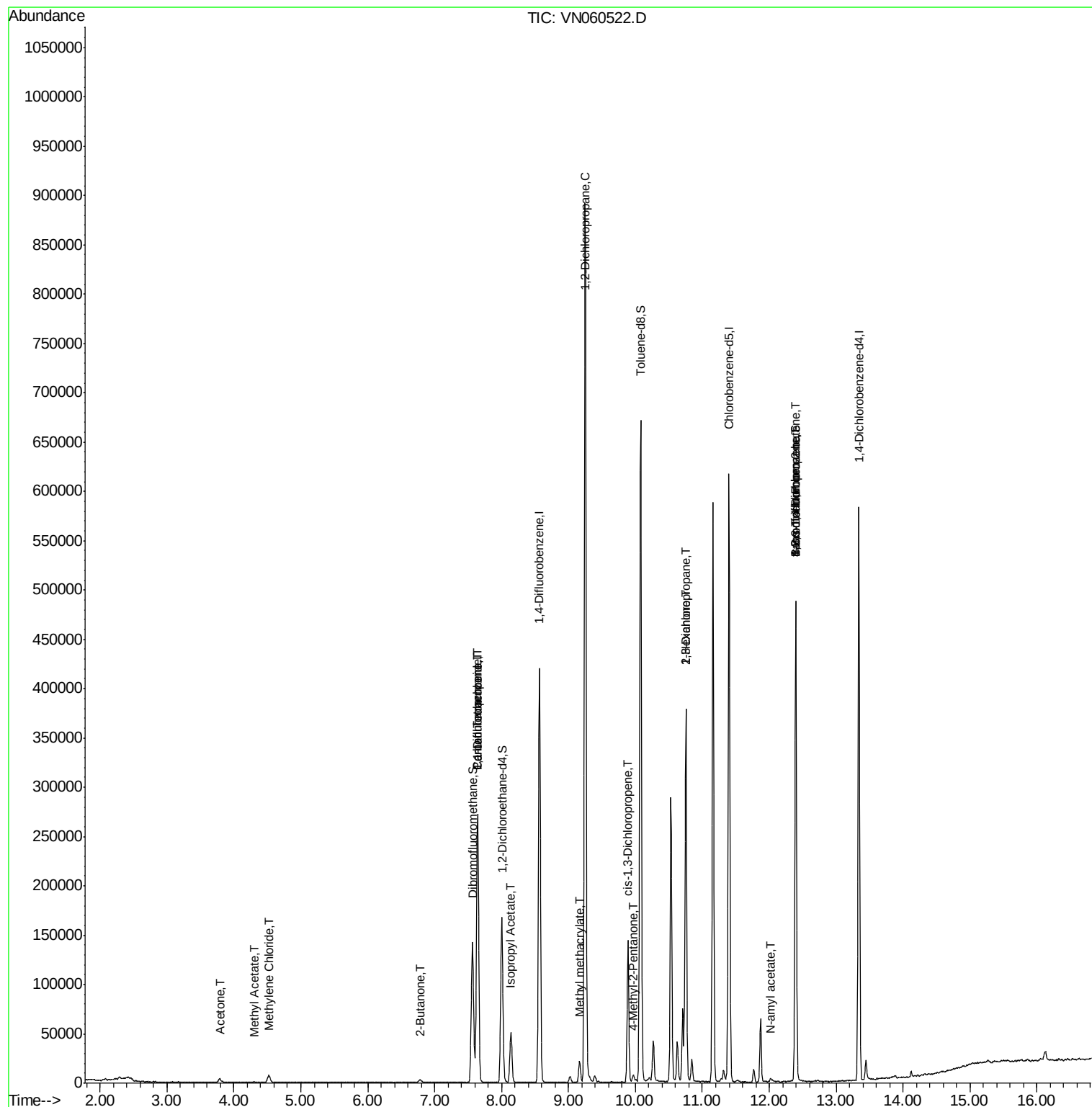
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7955	8.526	ug/l	94
17) Carbon Disulfide	4.03	76	122	Below Cal	#	75
18) Methyl Acetate	4.30	43	1570	0.504	ug/l #	60
20) Methylene Chloride	4.52	84	5751	2.244	ug/l	95
25) 2-Butanone	6.80	43	1789	1.187	ug/l #	49
31) Cyclohexane	7.64	56	4741	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	17380	4.836	ug/l #	49
38) Carbon Tetrachloride	7.64	117	21481	6.139	ug/l #	16
43) Isopropyl Acetate	8.14	43	61180	10.269	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	973	0.356	ug/l #	44
48) Methyl methacrylate	9.17	41	3179	1.170	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5551	1.643	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	25604	5.587	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3767	0.874	ug/l #	42
59) 2-Hexanone	10.75	43	55491	22.373	ug/l #	52
71) Bromoform	12.40	173	735	0.390	ug/l #	1
74) N-amyl acetate	12.02	43	2968	0.600	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	84676	25.257	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	84676	69.720	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	32	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	267	Below Cal	#	25
95) Naphthalene	15.13	128	767	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	63	Below Cal	#	12

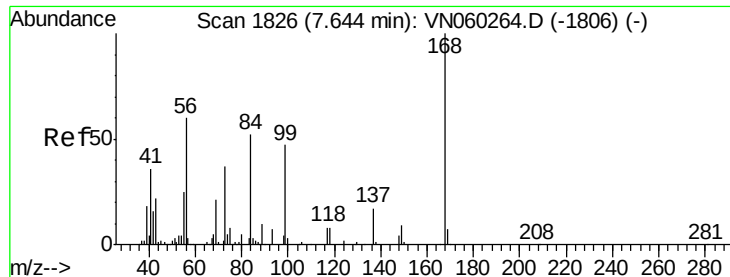
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
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: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampleId :

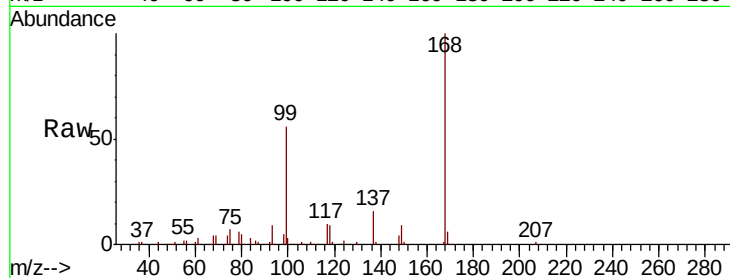
72-12002

Tot Ion:168 Resp: 225199

Ion Ratio Lower Upper

168 100

99 55.7 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

100000

80000

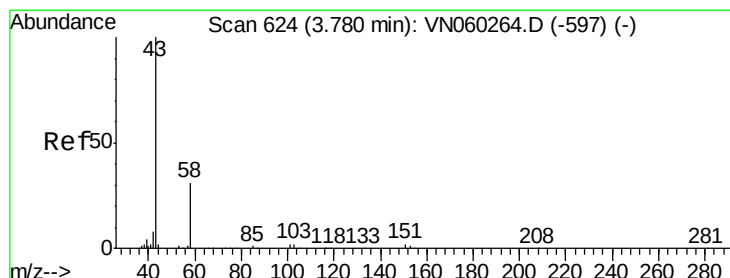
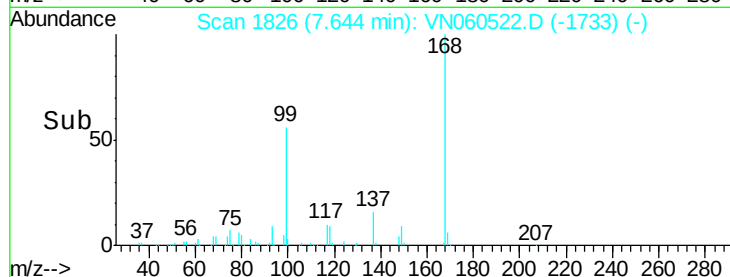
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 8.526 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060522.D

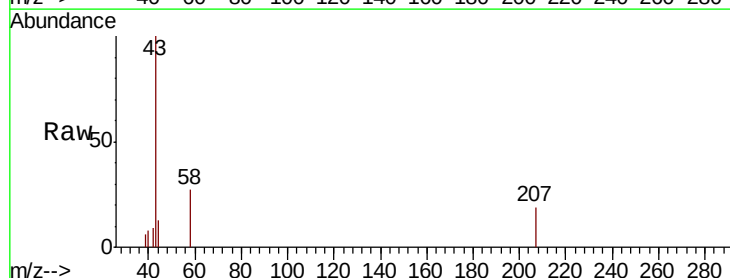
Acq: 16 Mar 2020 14:52

Tgt Ion: 43 Resp: 7955

Ion Ratio Lower Upper

43 100

58 27.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.79

3000

2500

2000

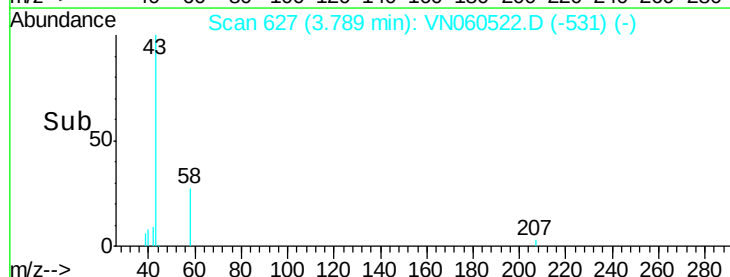
1500

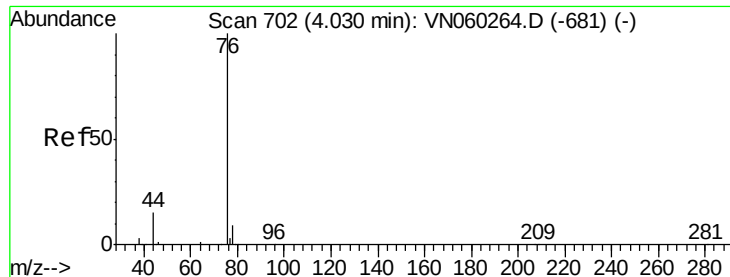
1000

500

0

Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampleId :

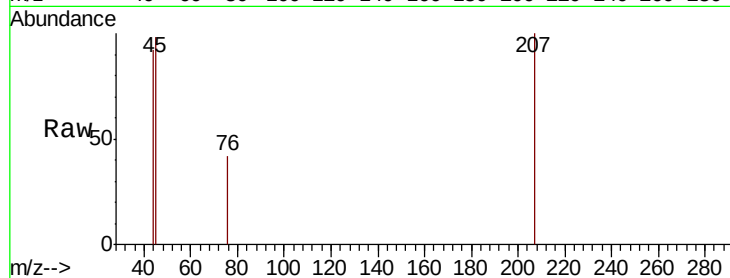
72-12002

Tot Ion: 76 Resp: 122

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

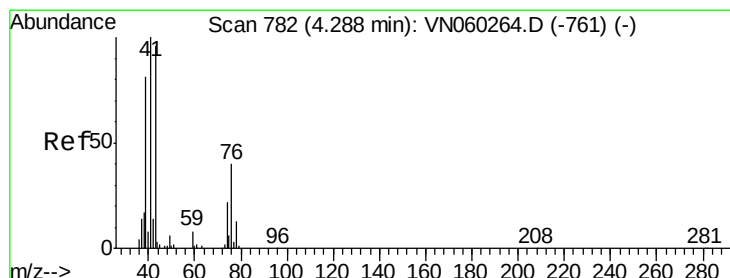
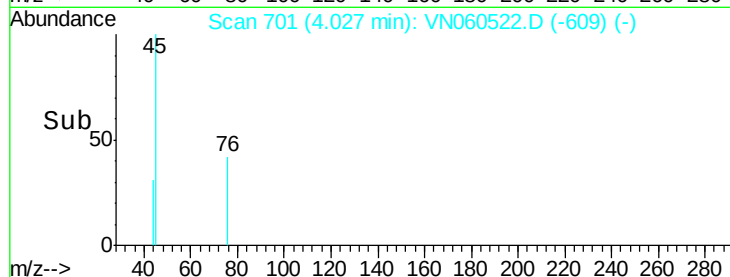
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 0.504 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.02 min

Lab File: VN060522.D

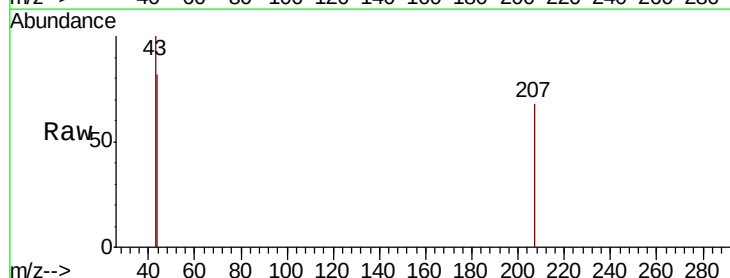
Acq: 16 Mar 2020 14:52

Tgt Ion: 43 Resp: 1570

Ion Ratio Lower Upper

43 100

74 3.8 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.30

600

500

400

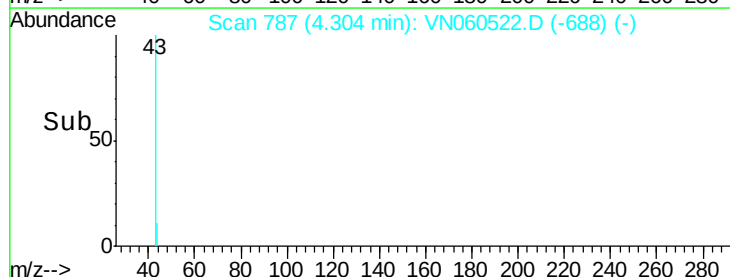
300

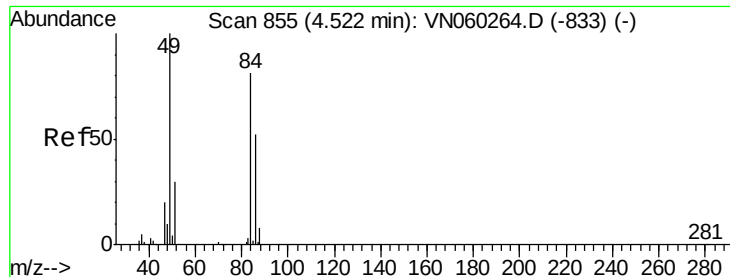
200

100

0

Time-->

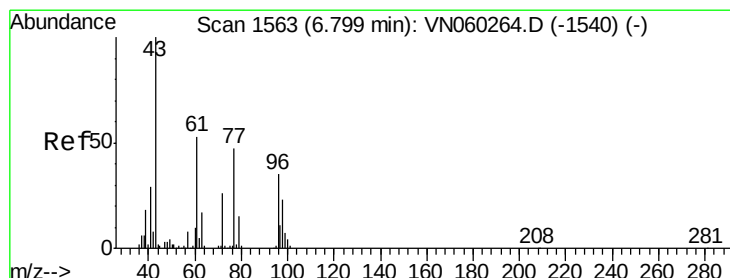
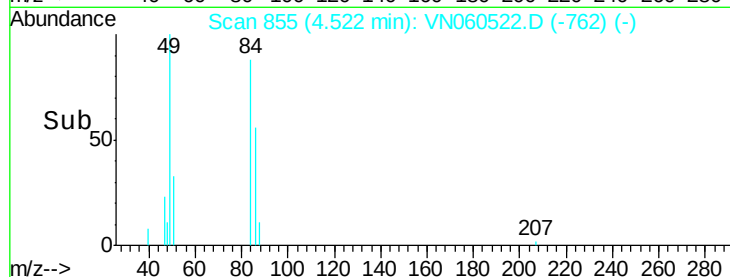
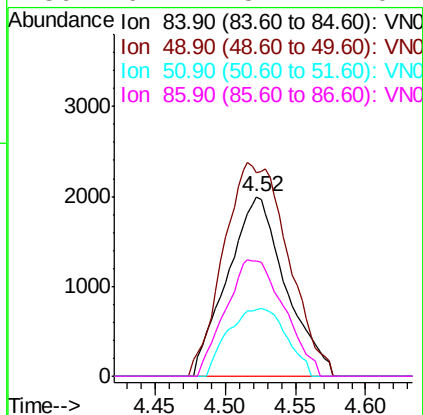
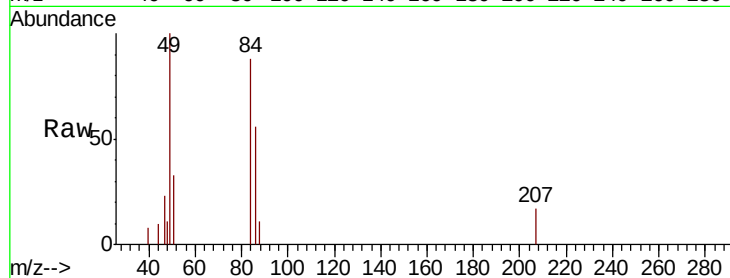




#20
Methvlene Chloride
Concen: 2.244 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060522.D
Acq: 16 Mar 2020 14:52

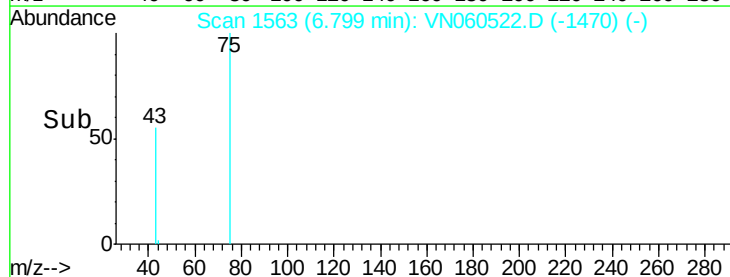
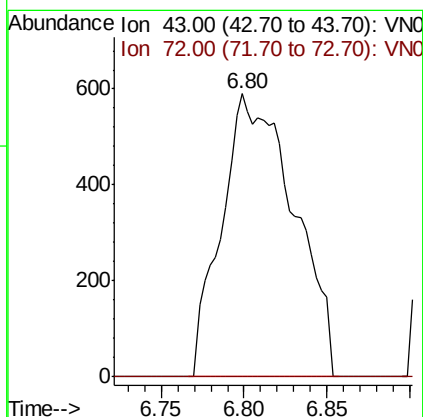
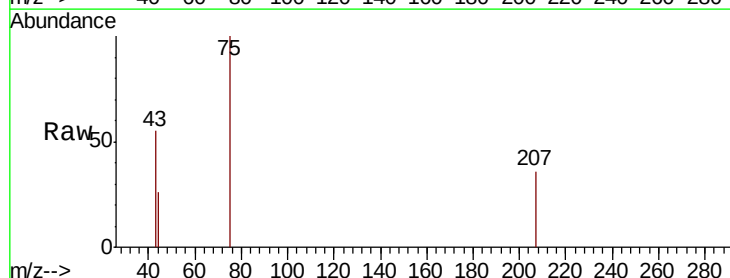
Instrument :
MSVOA_N
ClientSampleId :
72-12002

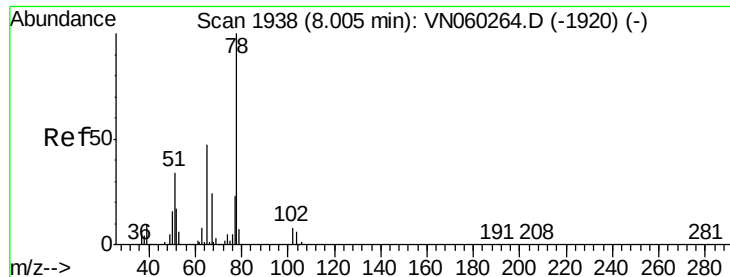
Tot Ion:	84	Resp:	5751
Ion	Ratio	Lower	Upper
84	100		
49	113.5	99.3	148.9
51	37.3	30.1	45.1
86	64.1	51.1	76.7



#25
2-Butanone
Concen: 1.187 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VN060522.D
Acq: 16 Mar 2020 14:52

Tgt Ion:	43	Resp:	1789
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#

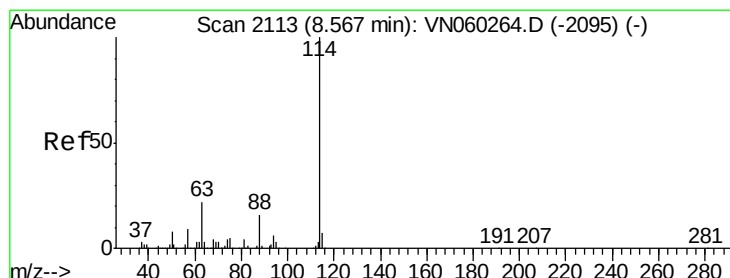
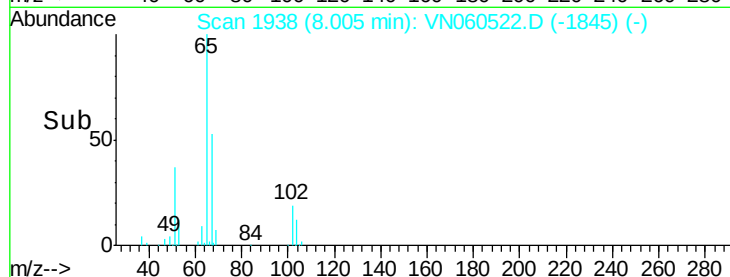
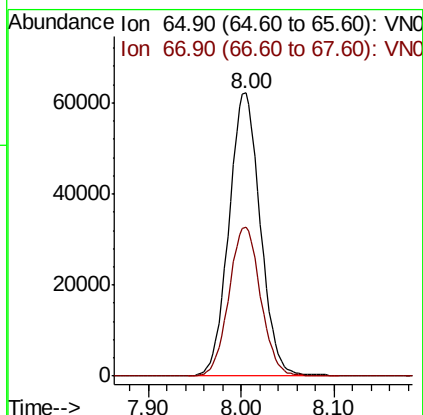
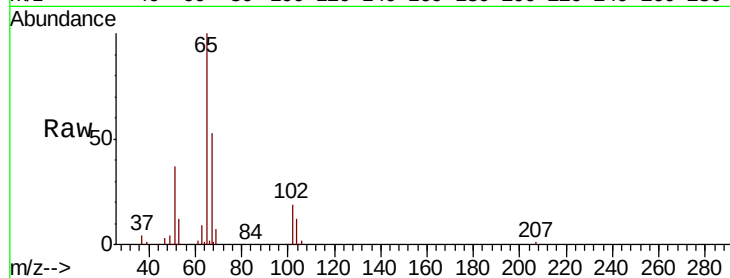




#33
 1,2-Dichloroethane-d4
 Concen: 50.519 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060522.D
 Acq: 16 Mar 2020 14:52

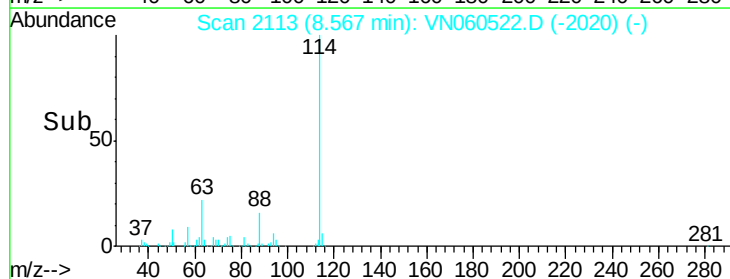
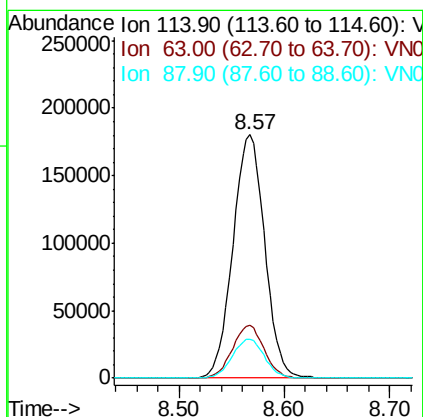
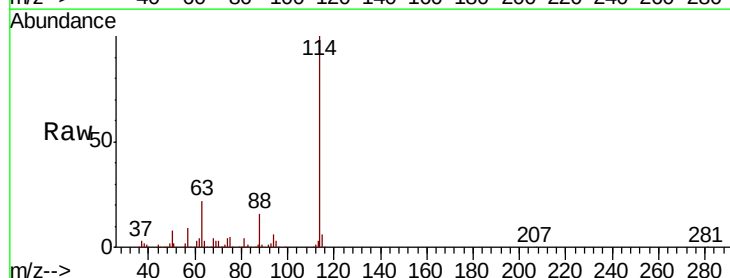
Instrument :
 MSVOA_N
 ClientSampleId :
 72-12002

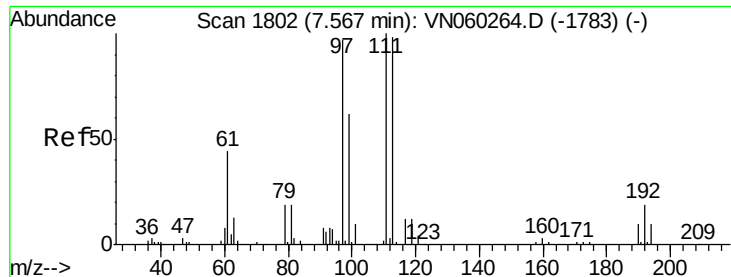
Tot Ion: 65 Resp: 145965
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060522.D
 Acq: 16 Mar 2020 14:52

Tgt Ion: 114 Resp: 377120
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 15.8 0.0 31.6

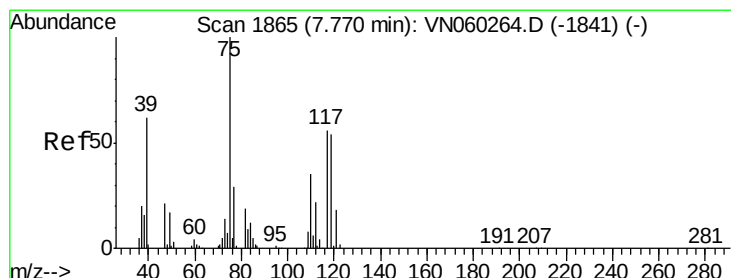
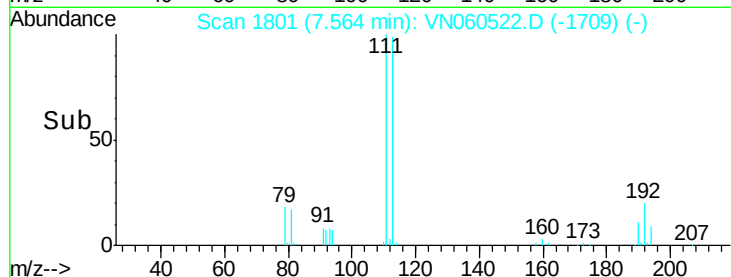
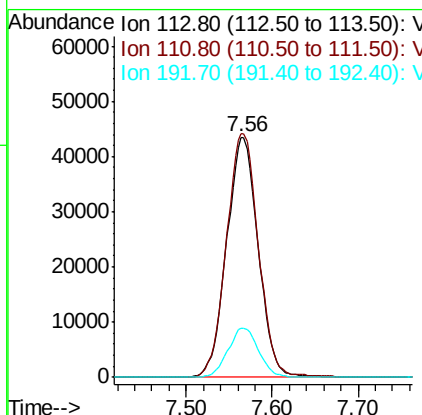
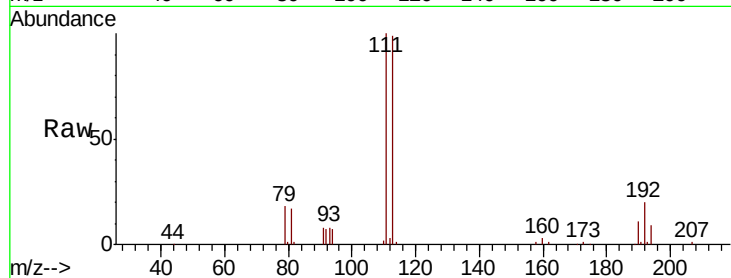




#35
 Dibromofluoromethane
 Concen: 63.276 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060522.D
 Acq: 16 Mar 2020 14:52

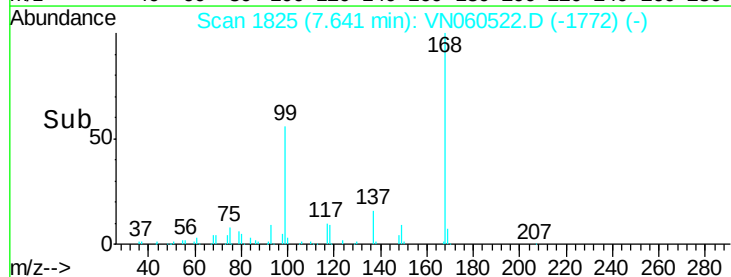
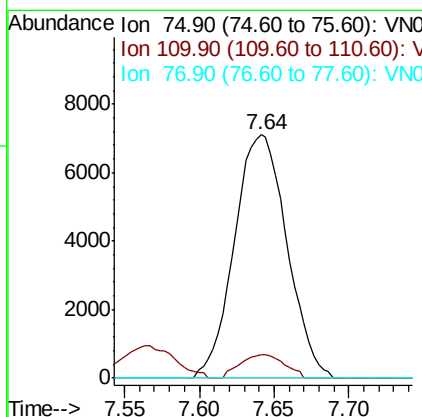
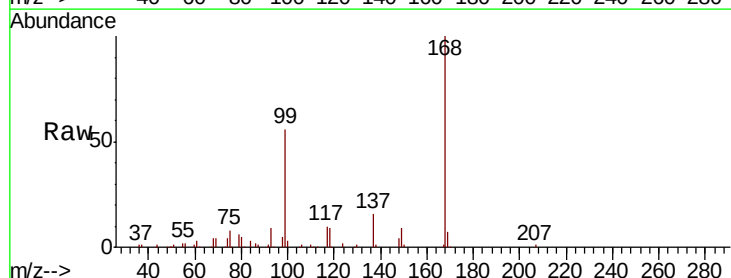
Instrument :
 MSVOA_N
 ClientSampleId :
 72-12002

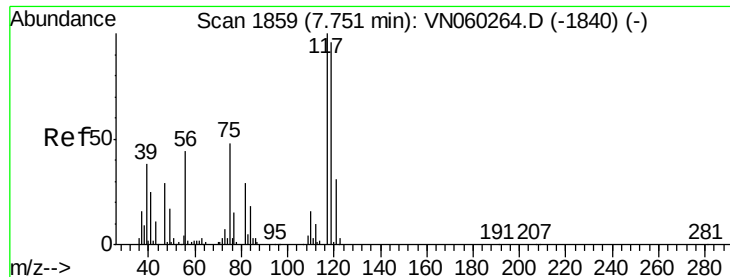
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	19.8	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.836 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060522.D
 Acq: 16 Mar 2020 14:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.3	52.0#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.139 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampleId :

72-12002

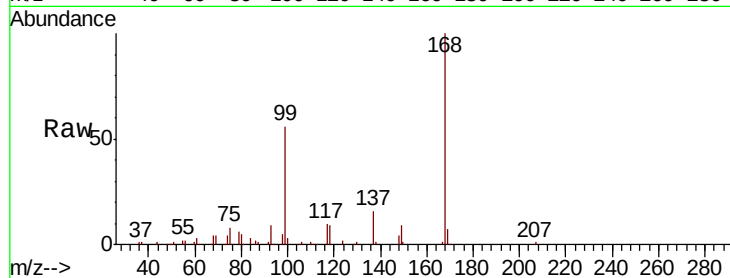
Tot Ion:117 Resp: 21481

Ion Ratio Lower Upper

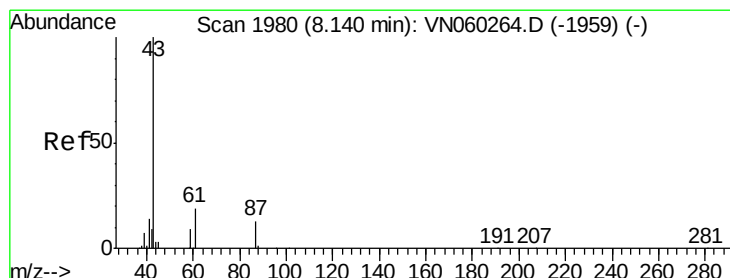
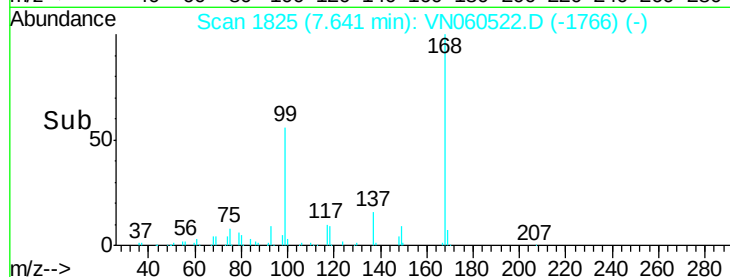
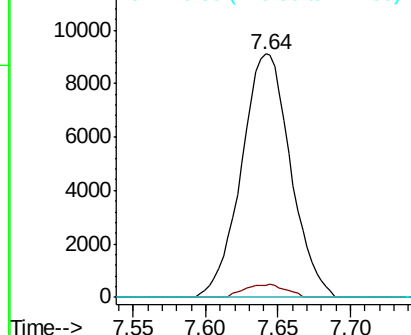
117 100

119 4.9 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: 10.269 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

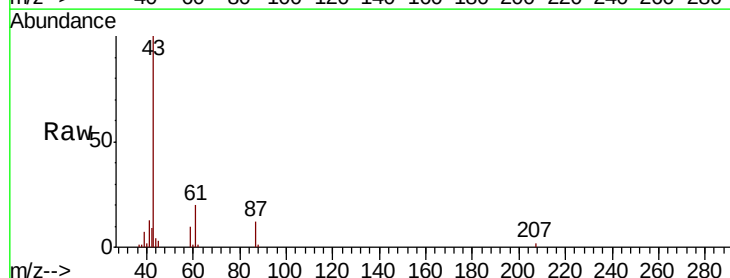
Tgt Ion: 43 Resp: 61180

Ion Ratio Lower Upper

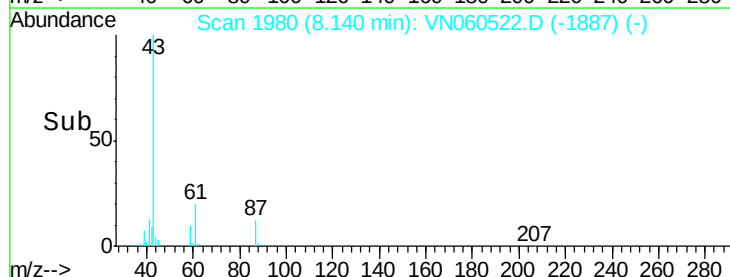
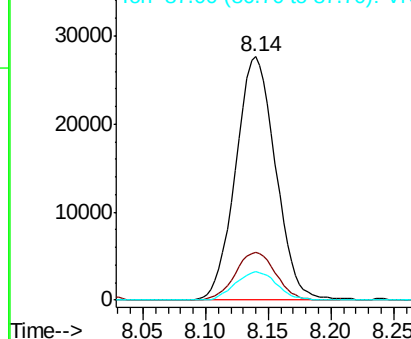
43 100

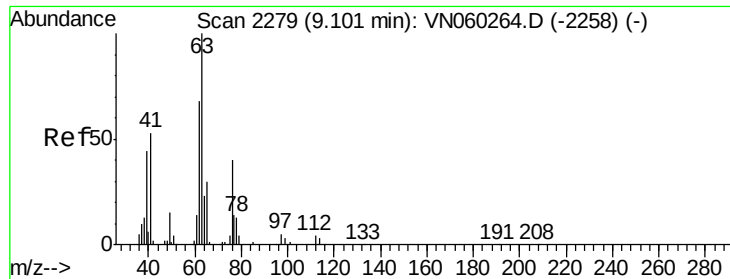
61 19.8 20.9 31.3#

87 12.0 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

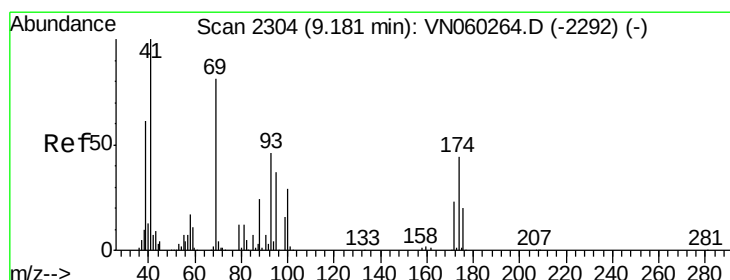
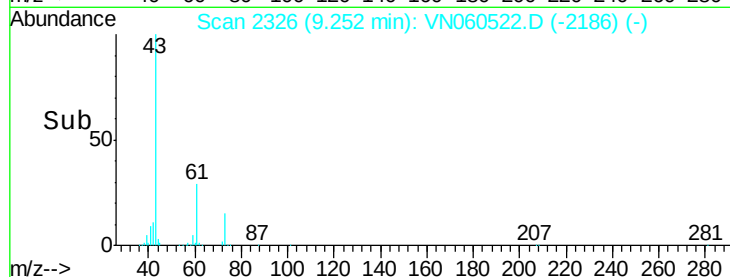
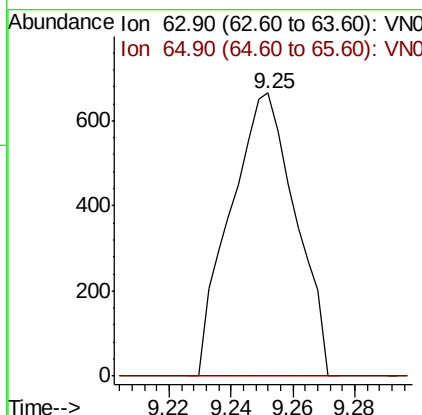
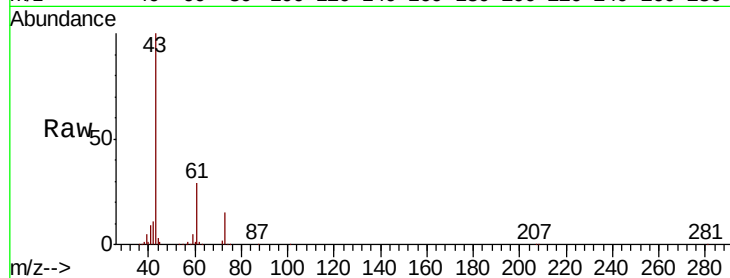




#45
 1,2-Dichloropropane
 Concen: 0.356 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060522.D
 Acq: 16 Mar 2020 14:52

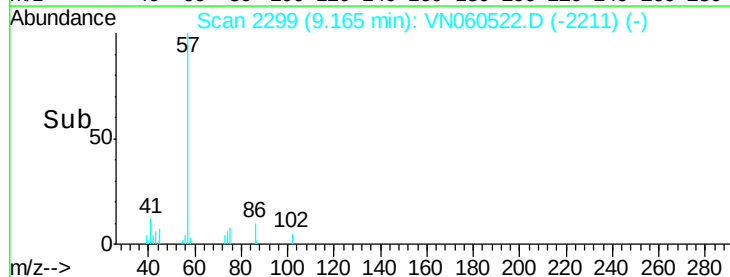
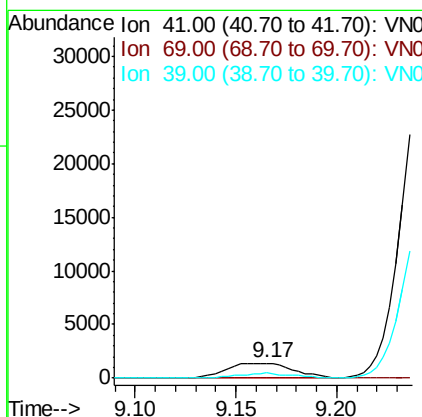
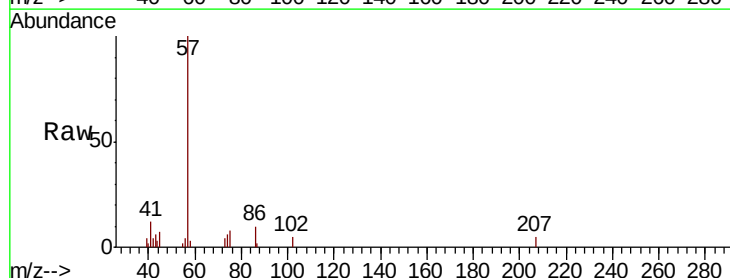
Instrument :
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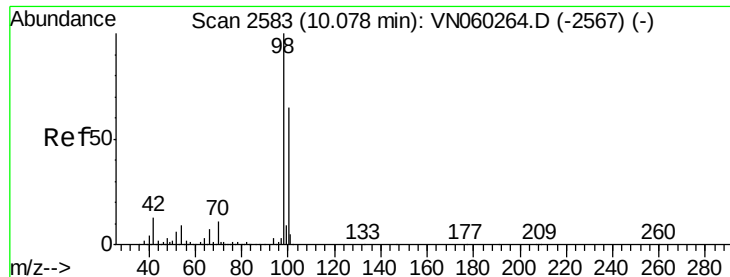
Tot Ion: 63 Resp: 973
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.170 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN060522.D
 Acq: 16 Mar 2020 14:52

Tgt Ion: 41 Resp: 3179
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.573 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampled :

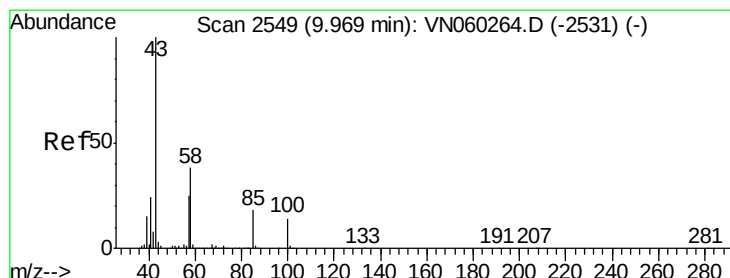
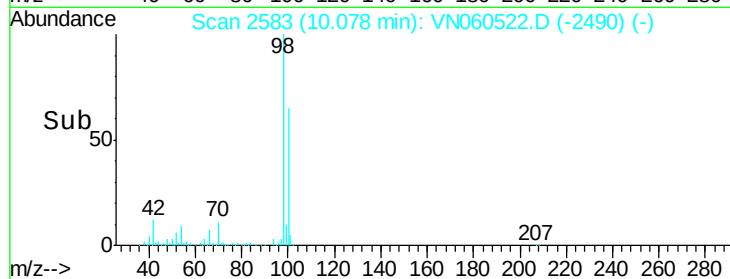
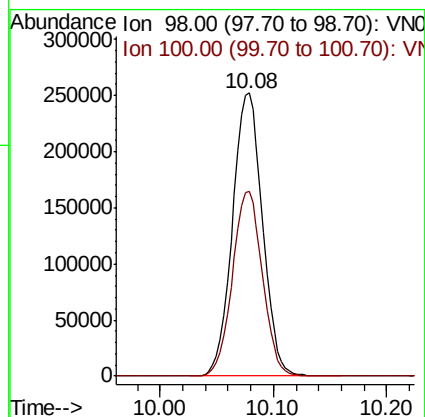
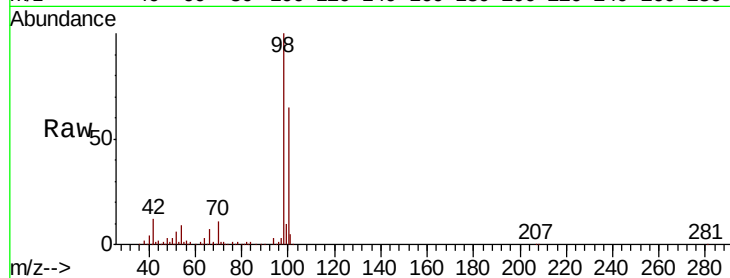
72-12002

Tot Ion: 98 Resp: 465764

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.643 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060522.D

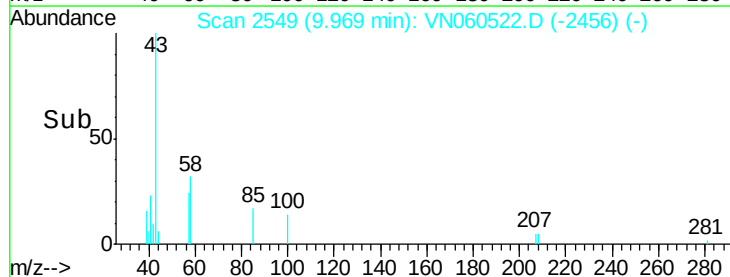
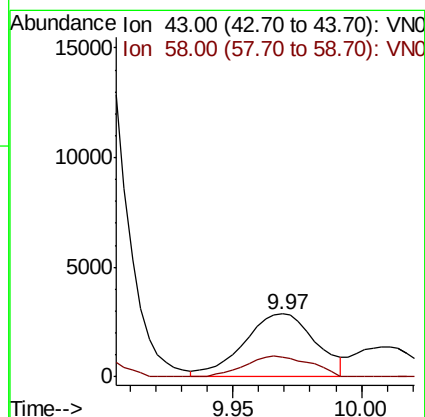
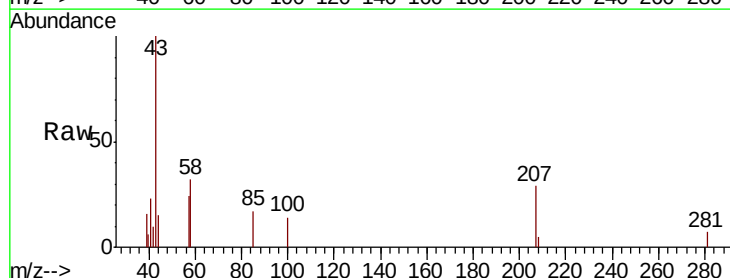
Acq: 16 Mar 2020 14:52

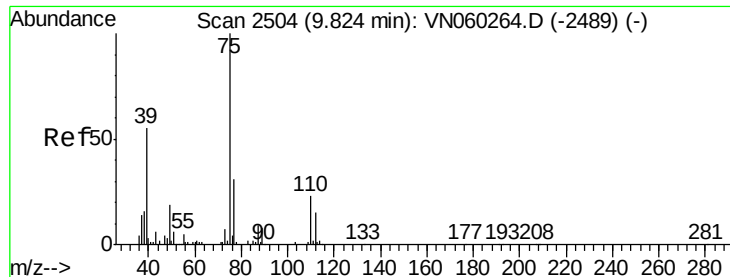
Tgt Ion: 43 Resp: 5551

Ion Ratio Lower Upper

43 100

58 30.5 30.9 46.3#





#54

cis-1,3-Dichloropropene

Concen: 5.587 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampleId :

72-12002

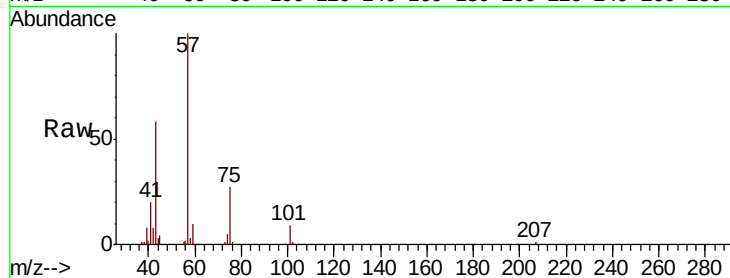
Tot Ion: 75 Resp: 25604

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

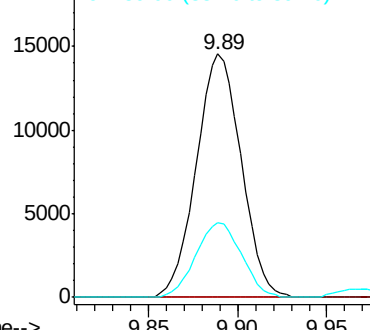
39 30.7 43.8 65.8#



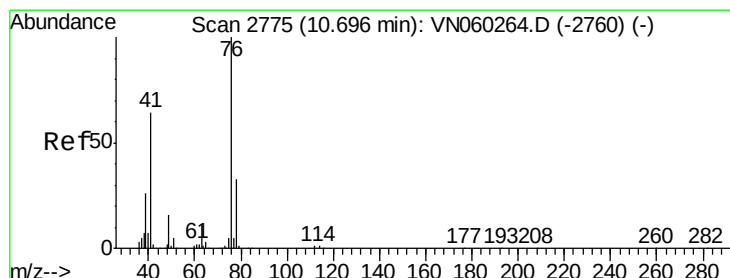
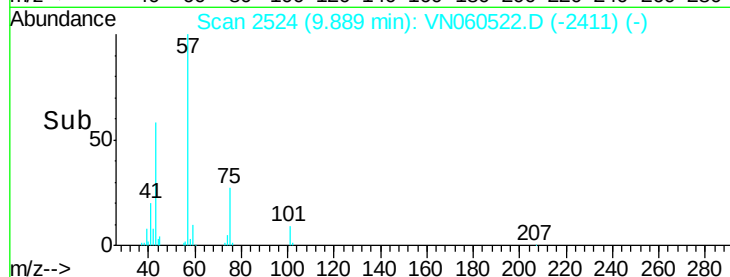
Abundance Ion 74.90 (74.60 to 75.60): VN060522.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060522.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060522.D (-2411) (-)



Time-->



#57

1,3-Dichloropropene

Concen: 0.874 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060522.D

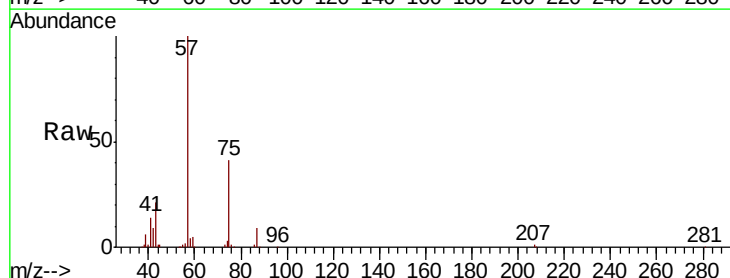
Acq: 16 Mar 2020 14:52

Tgt Ion: 76 Resp: 3767

Ion Ratio Lower Upper

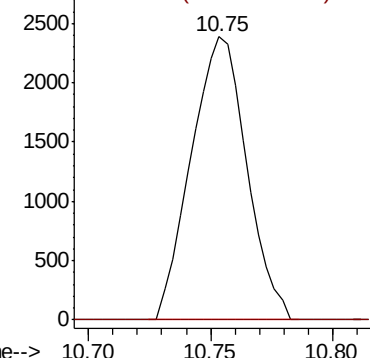
76 100

78 0.0 26.2 39.2#

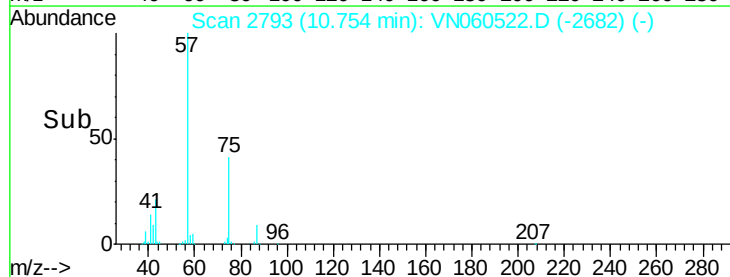


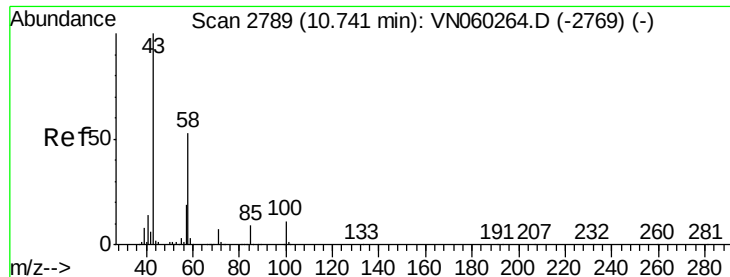
Abundance Ion 75.90 (75.60 to 76.60): VN060522.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060522.D (-2682) (-)



Time-->

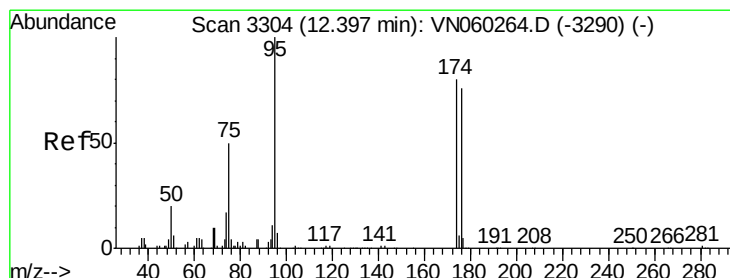
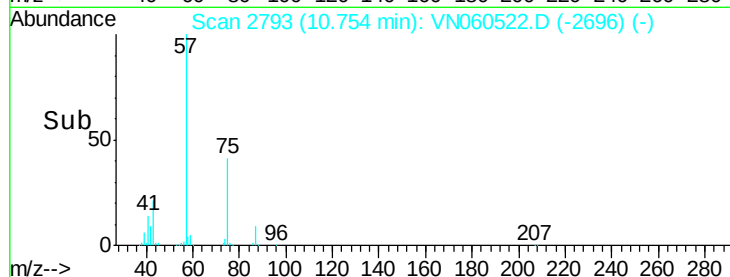
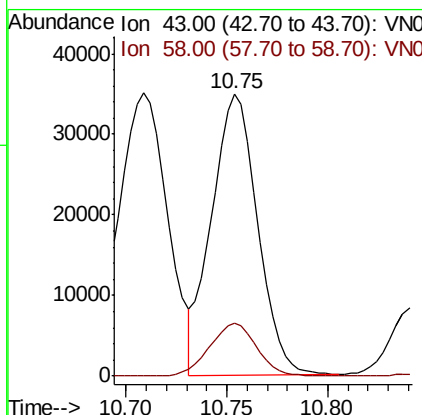
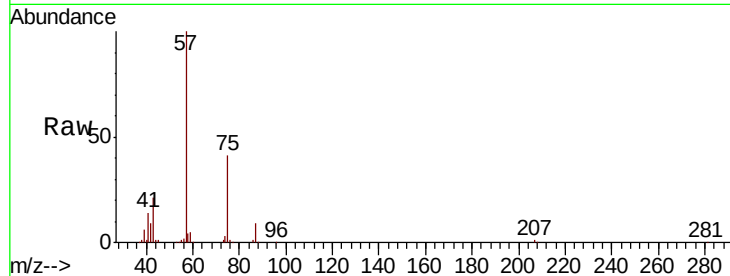




#59
2-Hexanone
Concen: 22.373 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060522.D
Acq: 16 Mar 2020 14:52

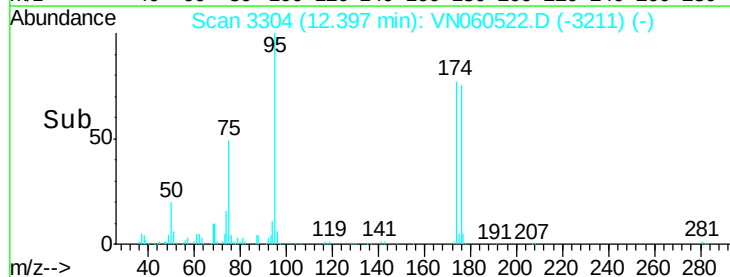
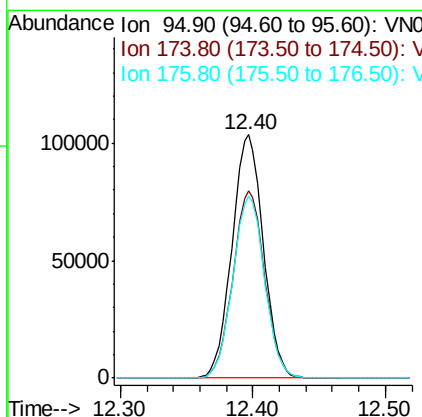
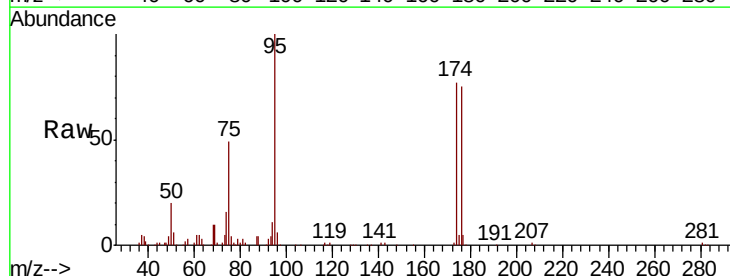
Instrument :
MSVOA_N
ClientSampleId :
72-12002

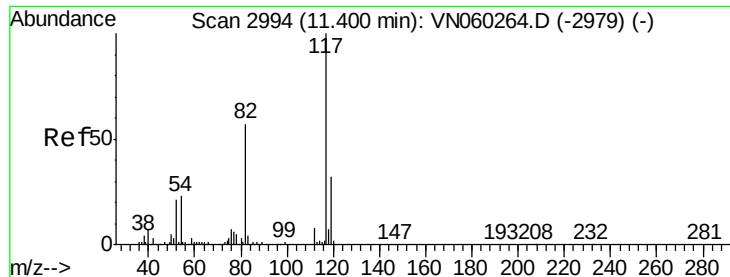
Tot Ion: 43 Resp: 55491
Ion Ratio Lower Upper
43 100
58 19.1 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 50.584 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060522.D
Acq: 16 Mar 2020 14:52

Tgt Ion: 95 Resp: 169880
Ion Ratio Lower Upper
95 100
174 77.6 0.0 159.2
176 75.6 0.0 153.8

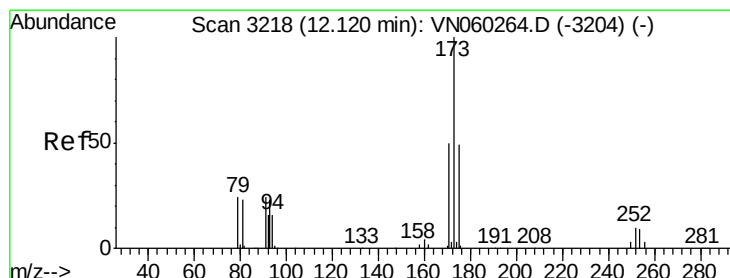
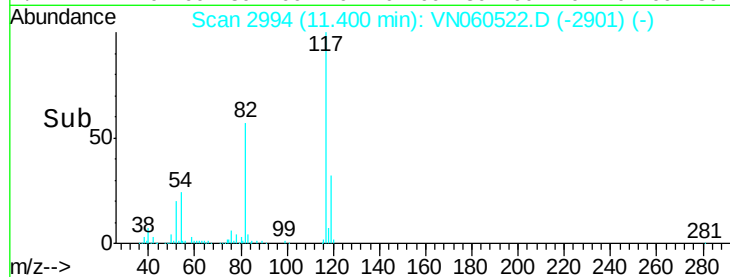
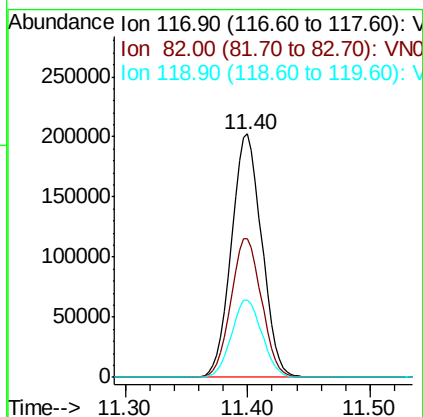
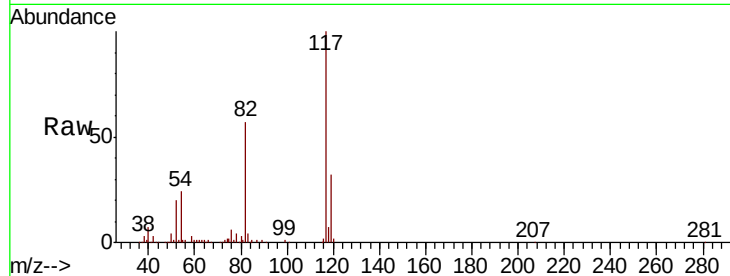




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060522.D
Acq: 16 Mar 2020 14:52

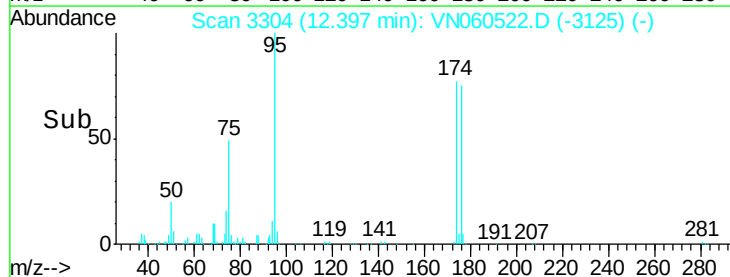
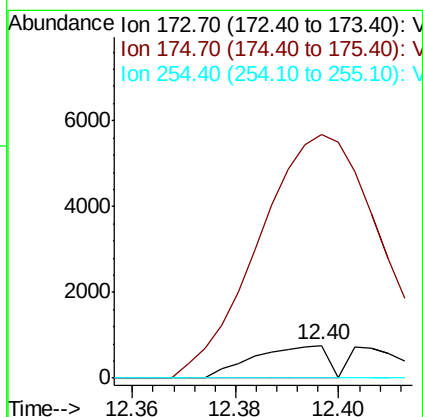
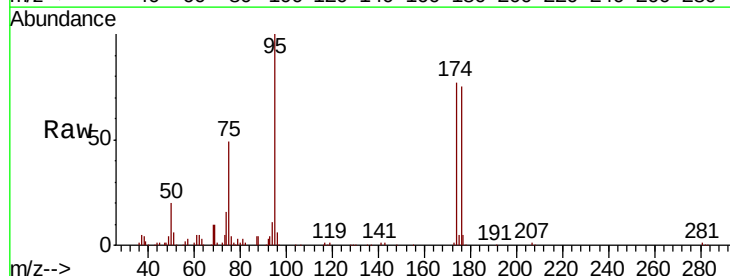
Instrument :
MSVOA_N
ClientSampled :
72-12002

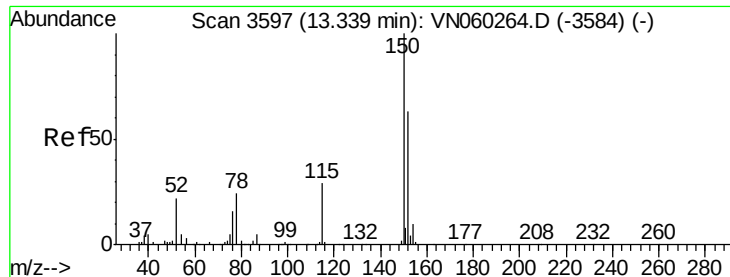
Tot Ion:117 Resp: 350506
Ion Ratio Lower Upper
117 100
82 57.1 45.8 68.6
119 32.0 25.8 38.8



#71
Bromoform
Concen: 0.390 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060522.D
Acq: 16 Mar 2020 14:52

Tgt Ion:173 Resp: 735
Ion Ratio Lower Upper
173 100
175 1088.7 24.1 72.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampleId :

72-12002

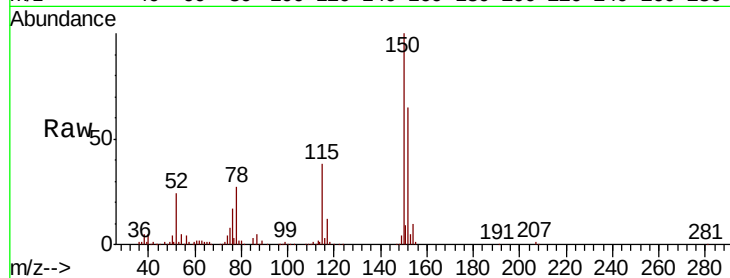
Tot Ion:152 Resp: 152808

Ion Ratio Lower Upper

152 100

115 59.6 30.0 90.0

150 156.4 0.0 349.6

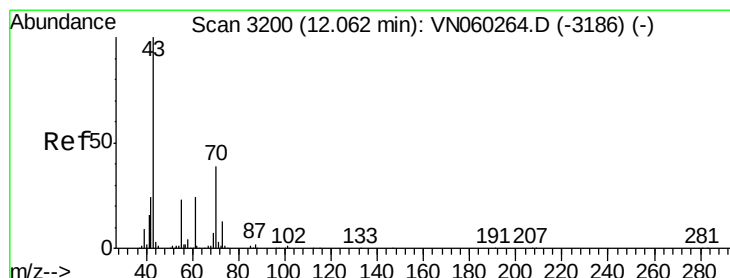
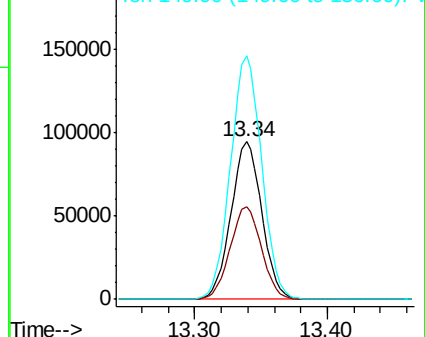
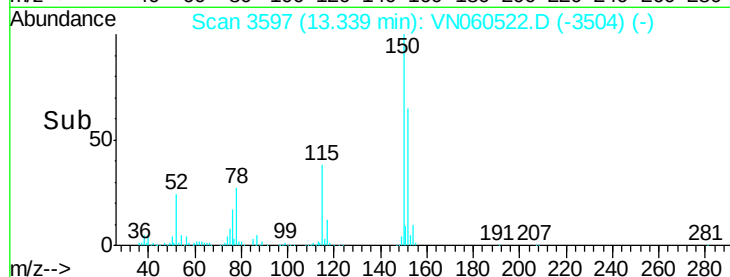


Abundance

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-ethyl acetate

Concen: 0.600 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Tgt Ion: 43 Resp: 2968

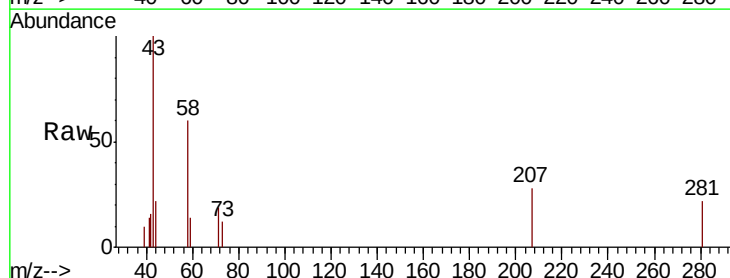
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



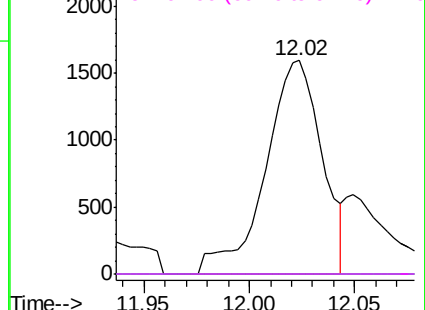
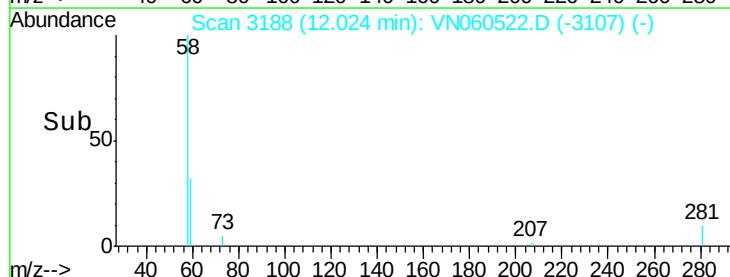
Abundance

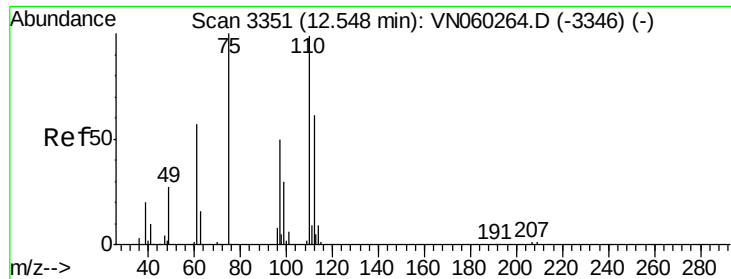
Ion 43.00 (42.70 to 43.70): VN0

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: 25.257 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampled :

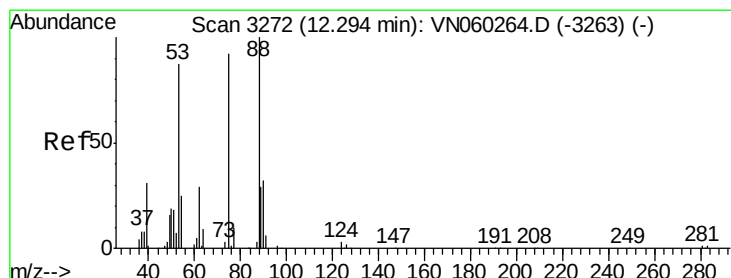
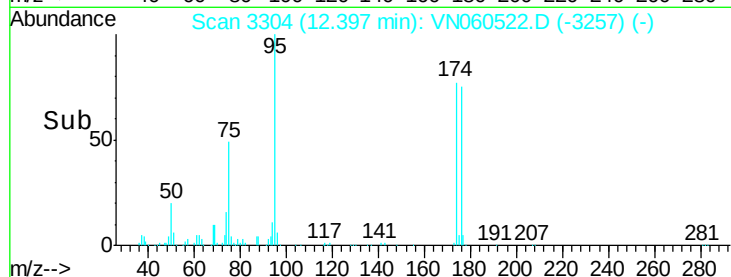
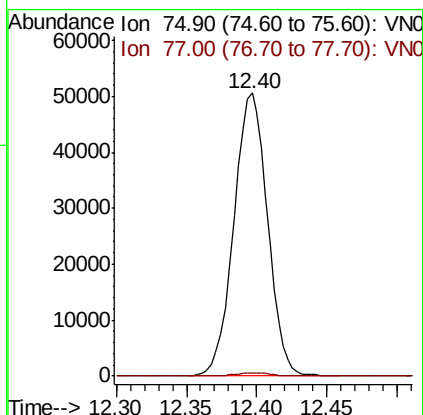
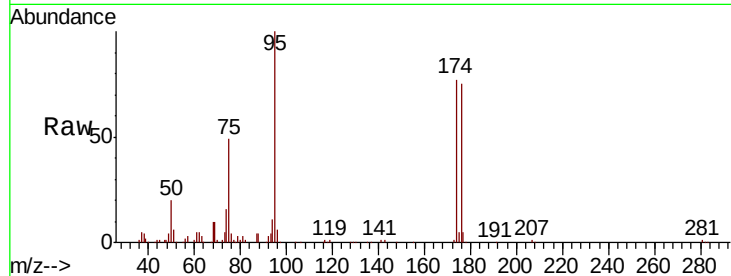
72-12002

Tot Ion: 75 Resp: 84676

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.720 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

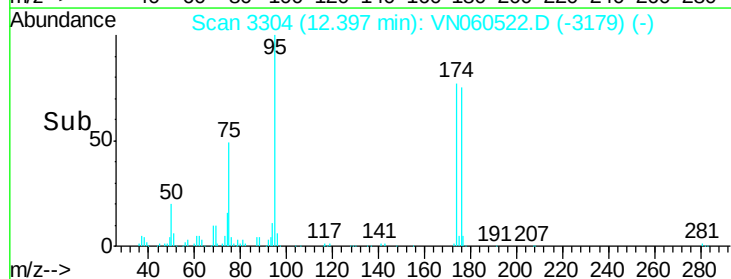
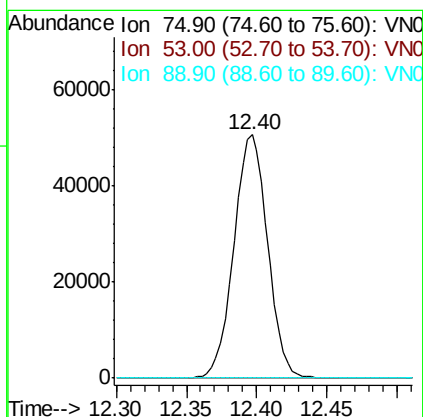
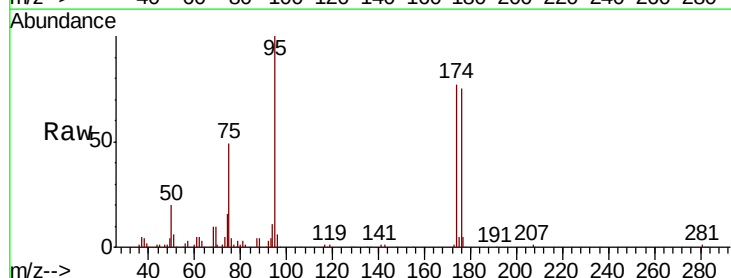
Tgt Ion: 75 Resp: 84676

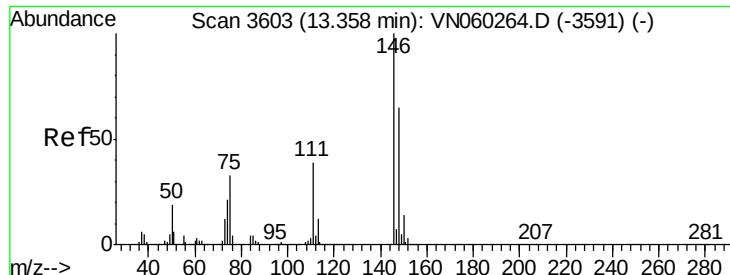
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN060522.D

Acq: 16 Mar 2020 14:52

Instrument :

MSVOA_N

ClientSampleId :

72-12002

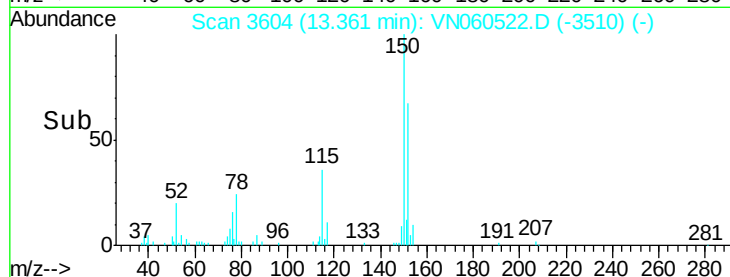
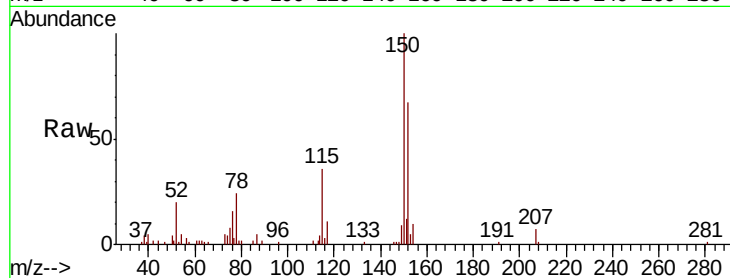
Tot Ion:146 Resp: 267

Ion Ratio Lower Upper

146 100

111 0.0 19.8 59.4#

148 0.0 32.3 96.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

