

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060499.D
 Acq On : 13 Mar 2020 13:56
 Operator : JC/MD
 Sample : PB127506TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

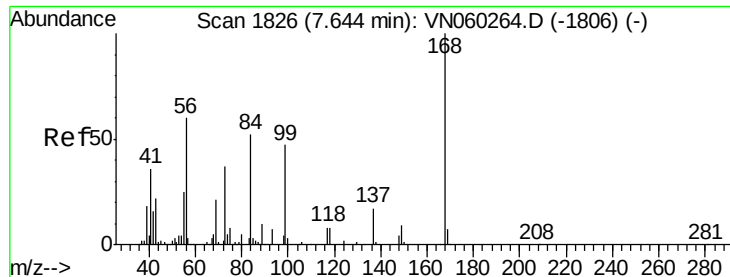
Quant Time: Mar 16 04:28:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	334432	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	317988	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150321	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	134115	51.72	ug/l	0.00
Spiked Amount						
			Recovery	=	103.44%	
35) Dibromofluoromethane	7.57	113	99620	64.17	ug/l	0.00
Spiked Amount						
			Recovery	=	128.34%	
50) Toluene-d8	10.08	98	417085	53.09	ug/l	0.00
Spiked Amount						
			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.40	95	157212	52.79	ug/l	0.00
Spiked Amount						
			Recovery	=	105.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6846	8.175	ug/l	100
17) Carbon Disulfide	4.04	76	31	Below Cal	#	75
18) Methyl Acetate	4.30	43	2068	0.740	ug/l #	52
20) Methylene Chloride	4.52	84	4881	2.122	ug/l	95
25) 2-Butanone	6.81	43	1210	0.895	ug/l #	49
29) Tetrahydrofuran	7.19	42	199	0.212	ug/l #	33
31) Cyclohexane	7.64	56	4277	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15635	4.905	ug/l #	50
37) Ethyl Acetate	6.81	43	1210	0.401	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19145	6.169	ug/l #	16
43) Isopropyl Acetate	8.14	43	66279	12.545	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1245	0.513	ug/l #	44
48) Methyl methacrylate	9.16	41	3441	1.428	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	6290	2.100	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	28434	6.996	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	4532	1.186	ug/l #	42
59) 2-Hexanone	10.75	43	69352	31.531	ug/l #	52
74) N-amyl acetate	12.02	43	4444	0.913	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	80143	24.300	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4265	0.455	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	80143	67.080	ug/l #	8
87) 1,3-Dichlorobenzene	13.36	146	108	Below Cal	#	1
88) 1,4-Dichlorobenzene	13.36	146	108	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.51	75	138	0.201	ug/l #	3
95) Naphthalene	15.13	128	464	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	32	Below Cal	#	12

(#) = 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: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

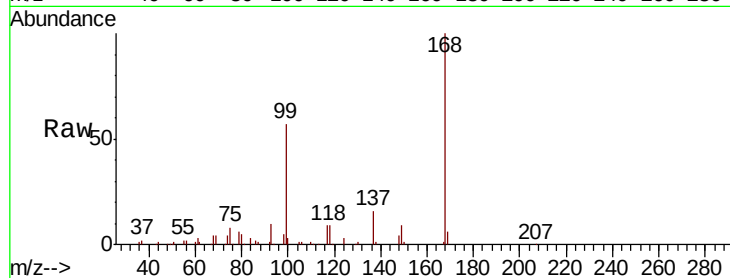
ClientSampleId :

Tot Ion:168 Resp: 202110

Ion Ratio Lower Upper

168 100

99 57.3 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

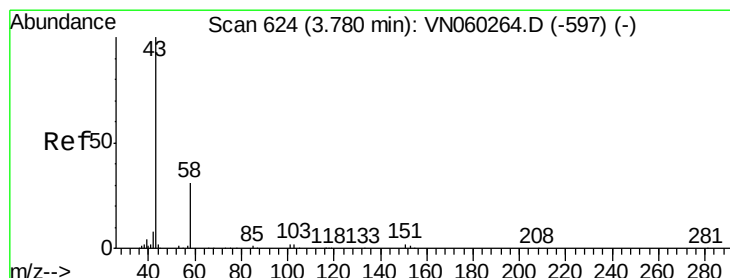
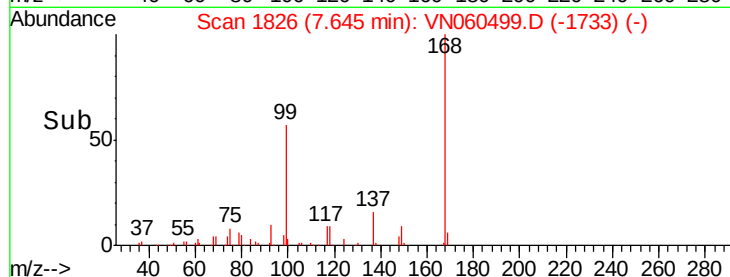
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#16

Acetone

Concen: 8.175 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060499.D

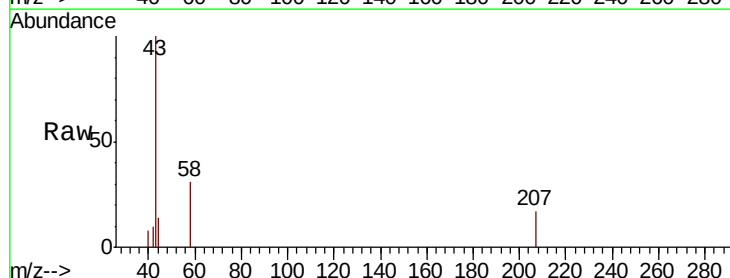
Acq: 13 Mar 2020 13:56

Tgt Ion: 43 Resp: 6846

Ion Ratio Lower Upper

43 100

58 30.7 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

2500

2000

1500

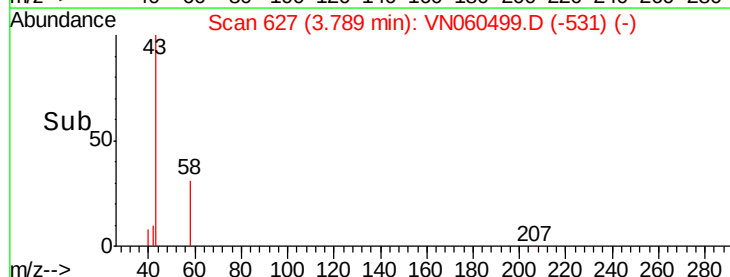
1000

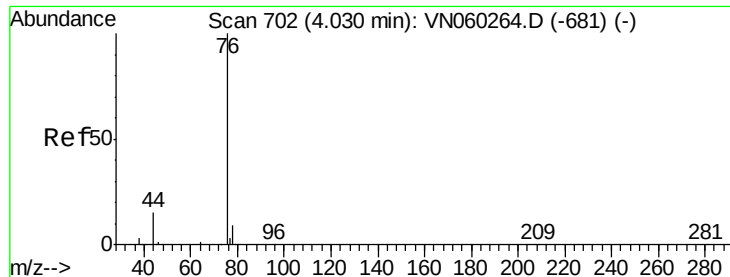
500

0

3.70 3.75 3.80 3.85 3.90

Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 704

Delta R.T. 0.01 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

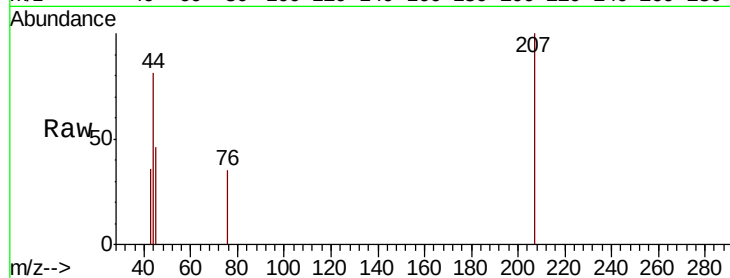
ClientSampleId :

Tot Ion: 76 Resp: 31

Ion Ratio Lower Upper

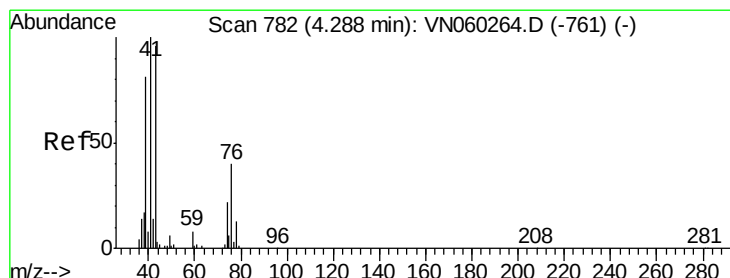
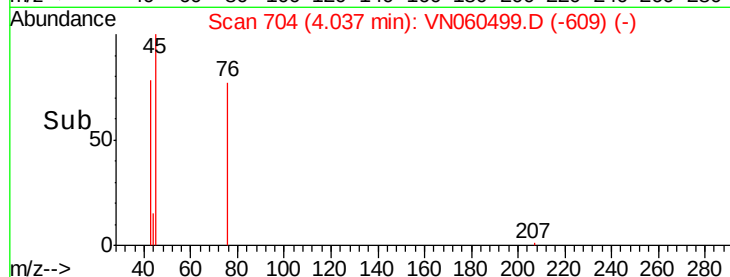
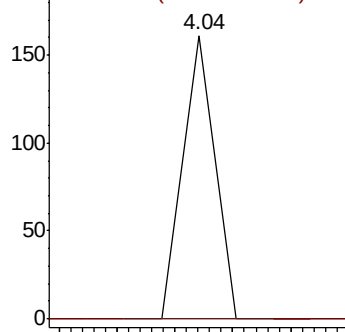
76 100

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



#18

Methyl Acetate

Concen: 0.740 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060499.D

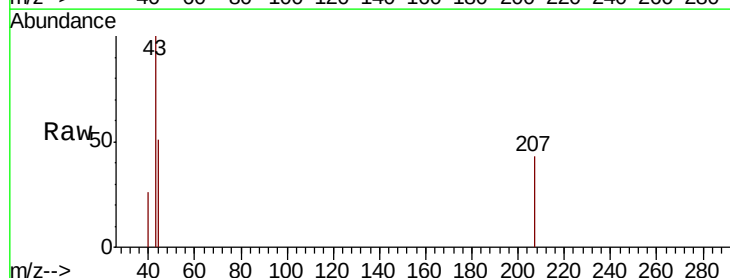
Acq: 13 Mar 2020 13:56

Tgt Ion: 43 Resp: 2068

Ion Ratio Lower Upper

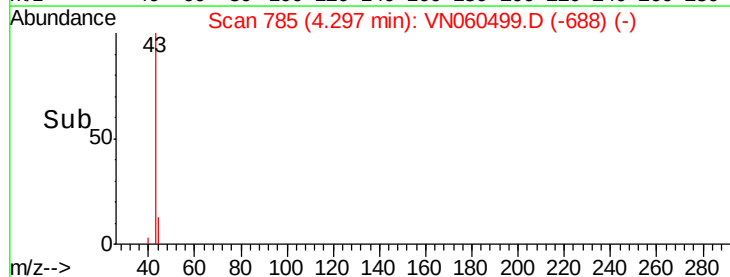
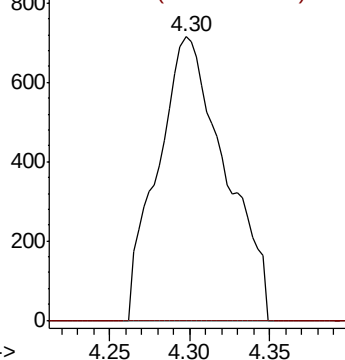
43 100

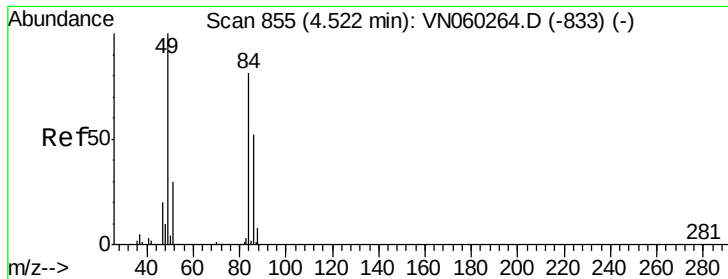
74 0.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

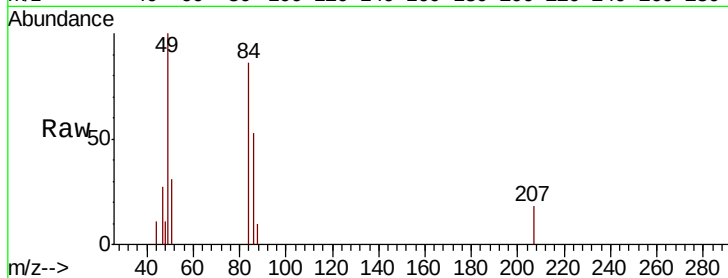




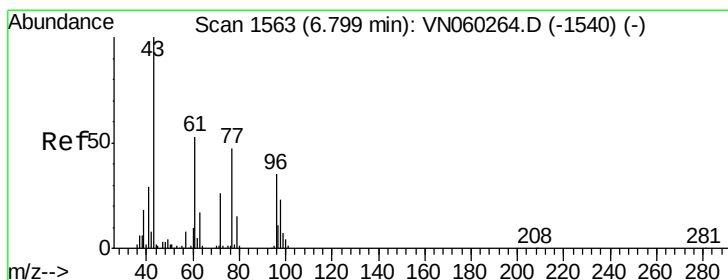
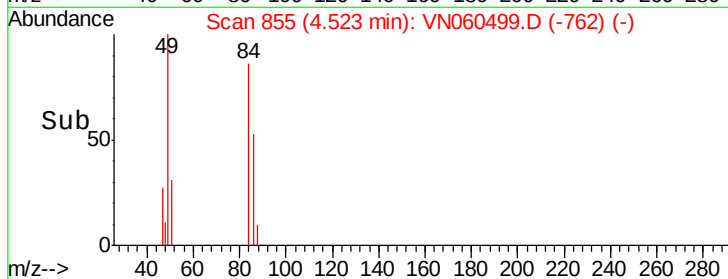
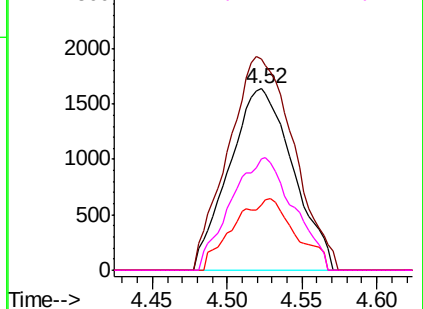
#20
Methylene Chloride
Concen: 2.122 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	4881
Ion	Ratio	Lower	Upper
84	100		
49	116.4	99.3	148.9
51	36.3	30.1	45.1
86	61.6	51.1	76.7

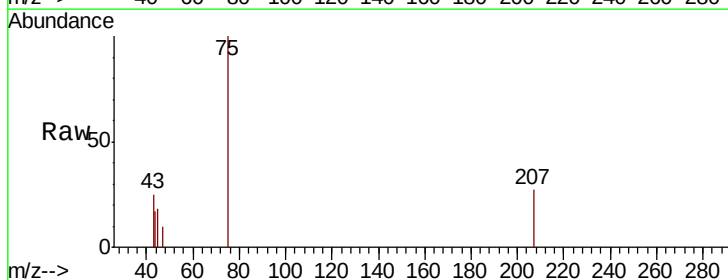


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

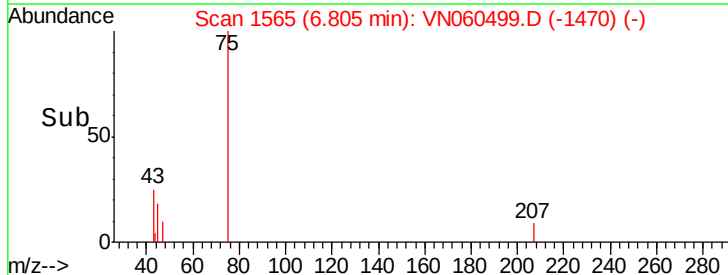
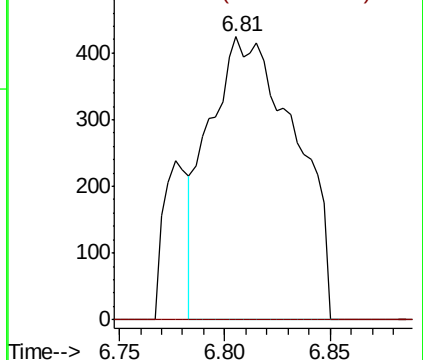


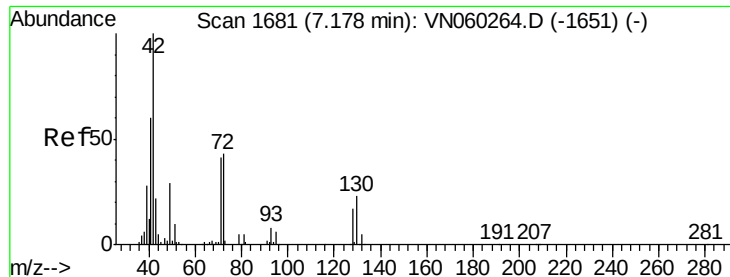
#25
2-Butanone
Concen: 0.895 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Tgt Ion:	43	Resp:	1210
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.212 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampled :

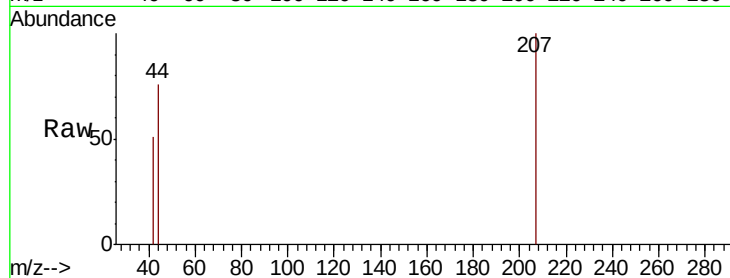
Tot Ion: 42 Resp: 199

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

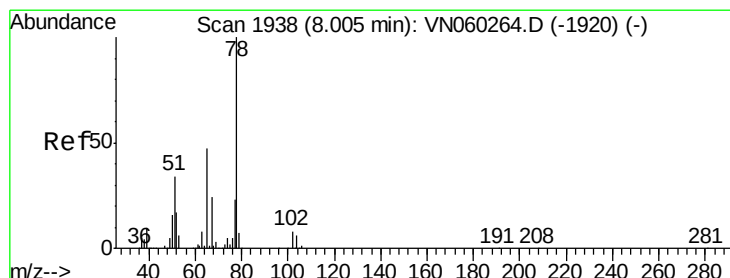
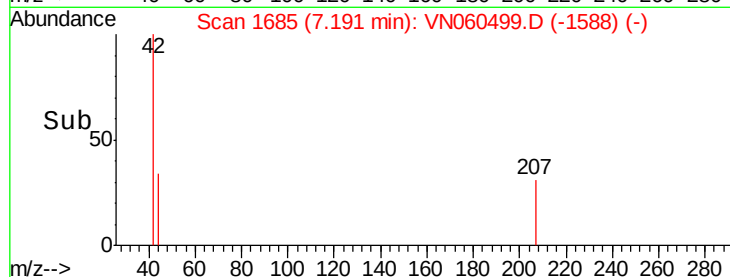
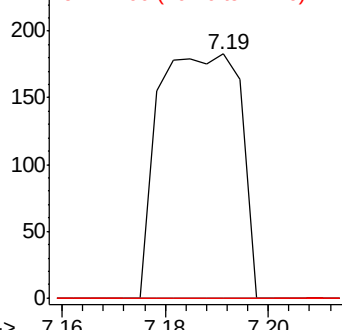
71 0.0 32.9 49.3#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.720 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060499.D

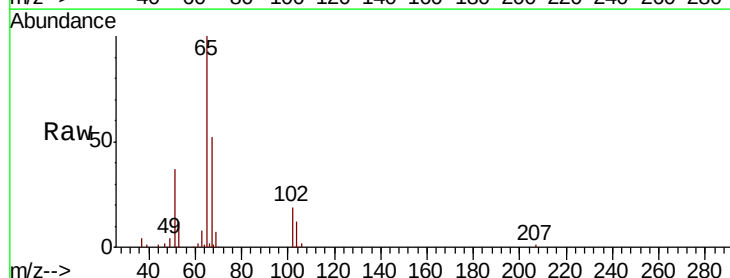
Acq: 13 Mar 2020 13:56

Tgt Ion: 65 Resp: 134115

Ion Ratio Lower Upper

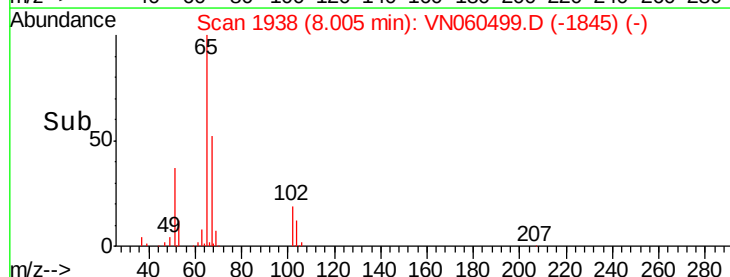
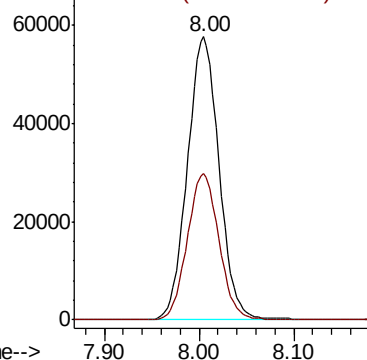
65 100

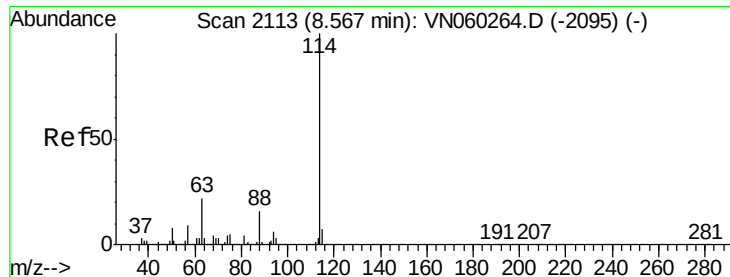
67 51.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

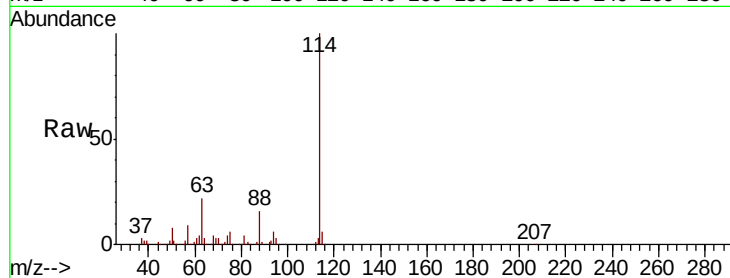




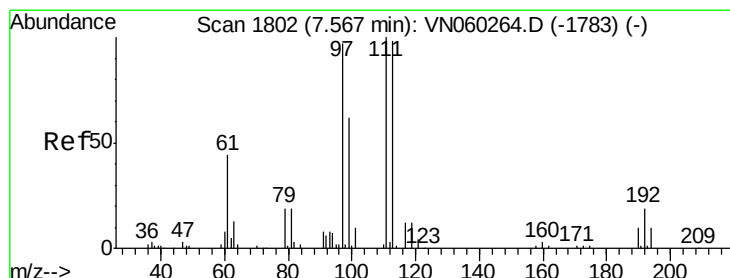
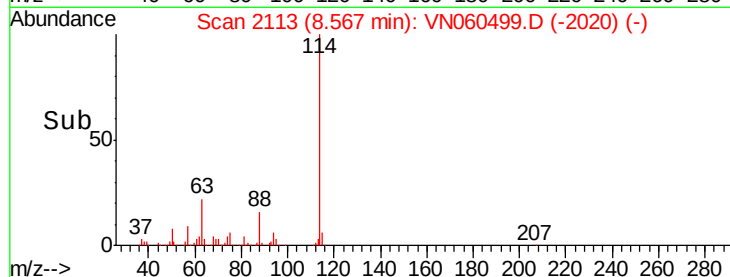
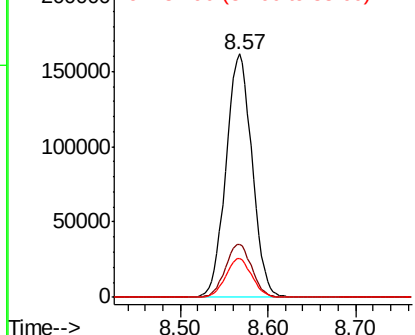
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	43.2
88	16.1	0.0	31.6

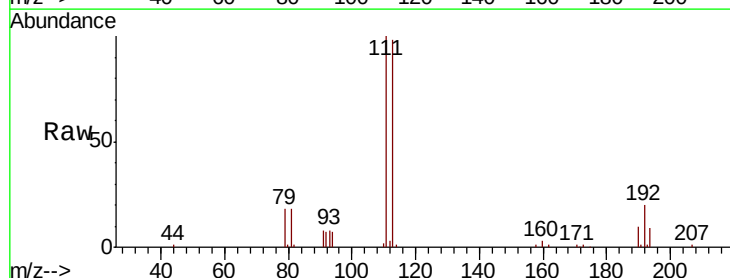


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

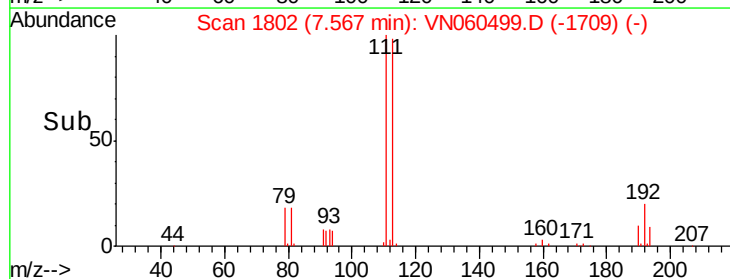
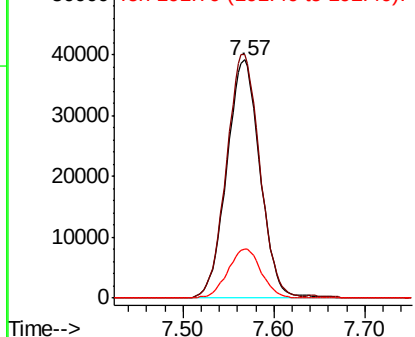


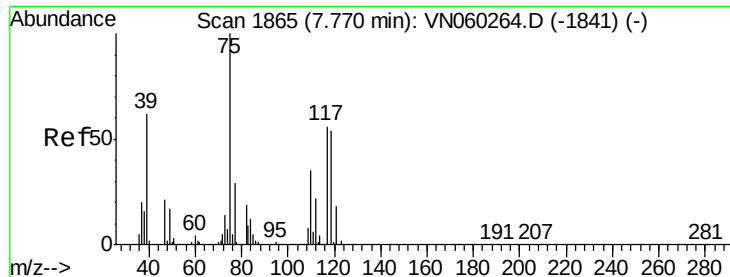
#35
Dibromofluoromethane
Concen: 64.175 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	20.7	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: 4.905 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

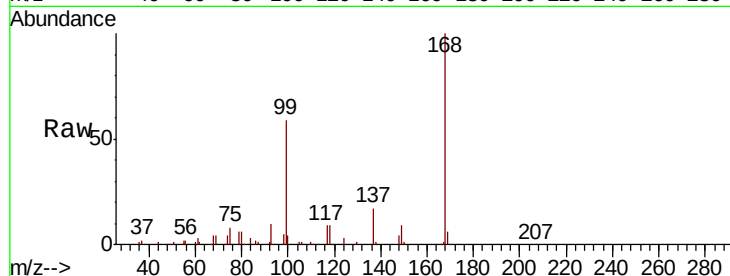
Tot Ion: 75 Resp: 15635

Ion Ratio Lower Upper

75 100

110 8.2 17.3 52.0#

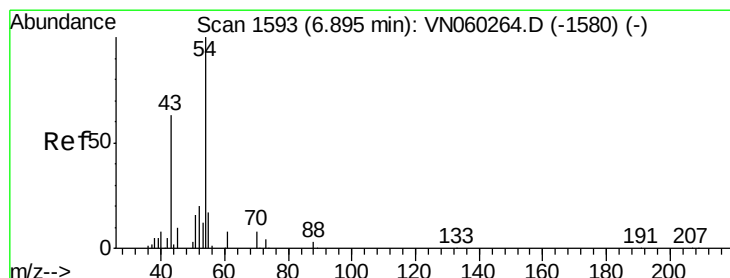
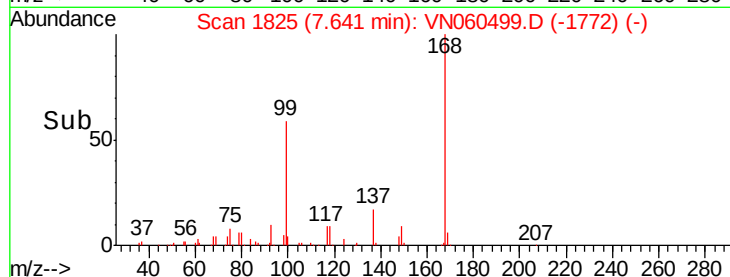
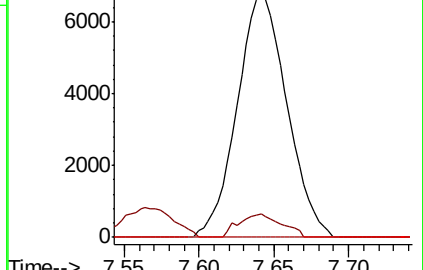
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060499.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060499.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060499.D (-1772) (-)



#37

Ethyl Acetate

Concen: 0.401 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

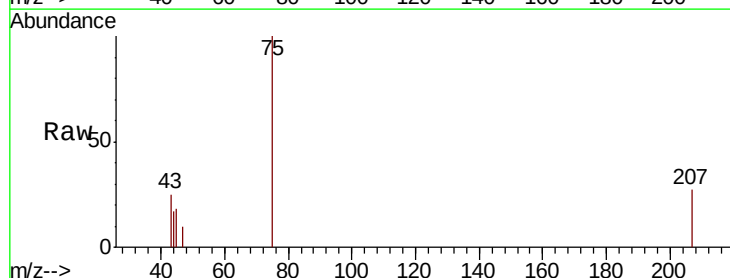
Tgt Ion: 43 Resp: 1210

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

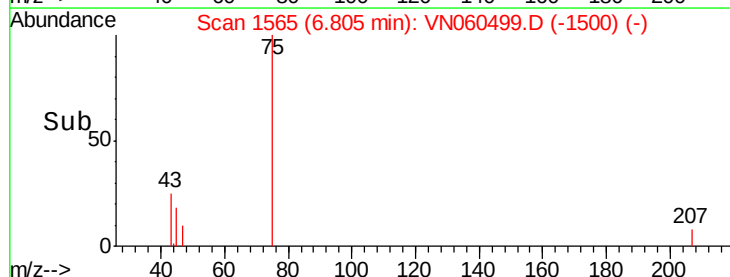
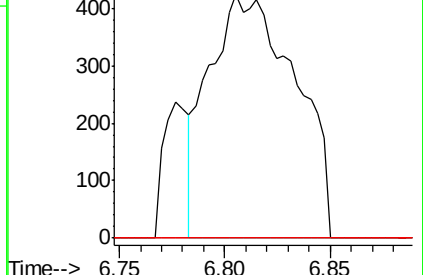
70 0.0 8.4 12.6#

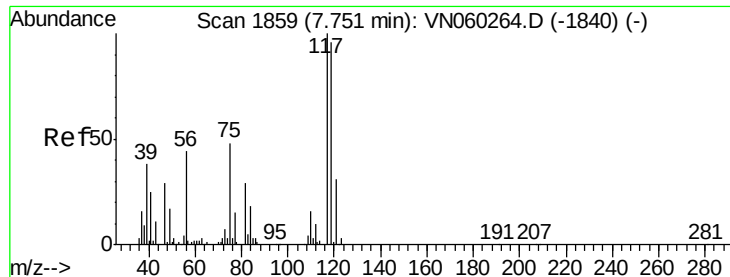


Abundance Ion 43.00 (42.70 to 43.70): VN060499.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060499.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060499.D (-1500) (-)

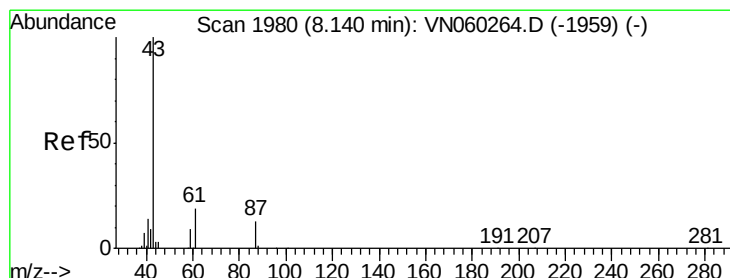
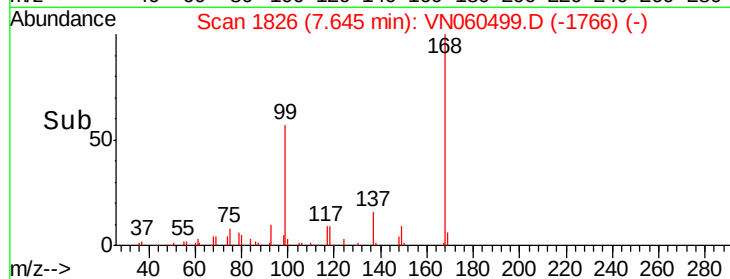
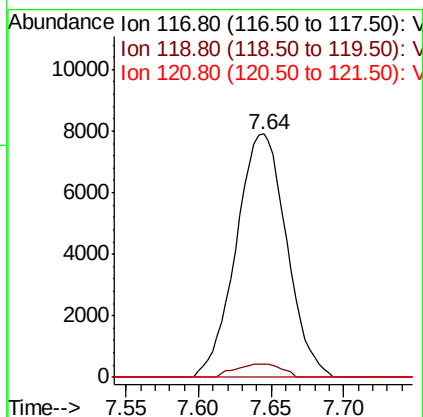
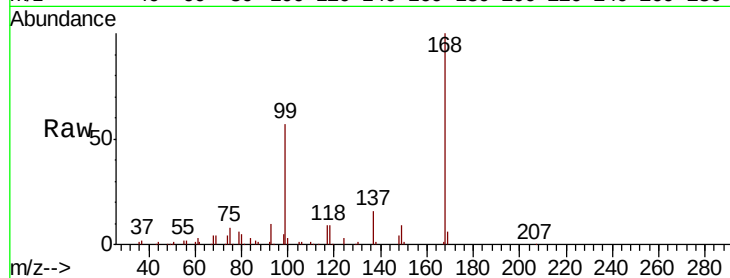




#38
Carbon Tetrachloride
Concen: 6.169 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

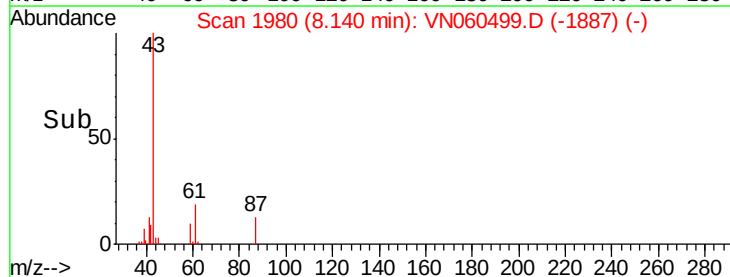
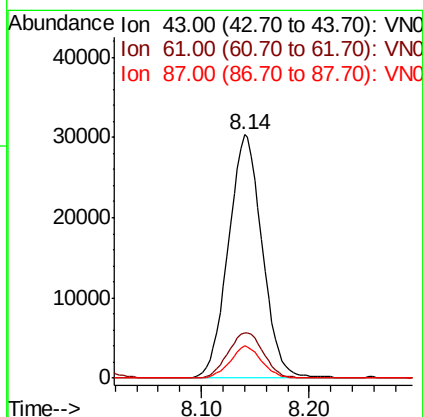
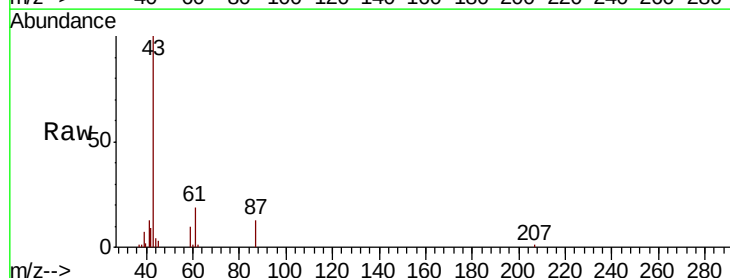
Instrument :
MSVOA_N
ClientSampleId :

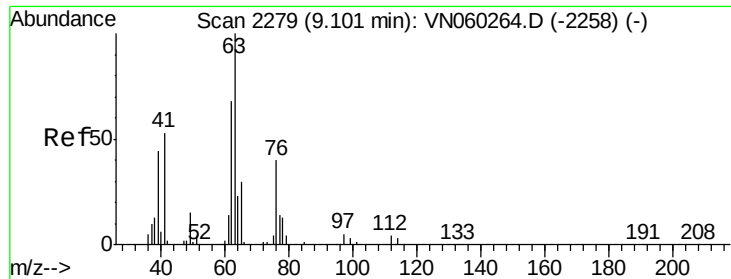
Tot Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.7	115.1#
121	0.0	24.5	36.7#



#43
Isopropyl Acetate
Concen: 12.545 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Tgt Ion	Ratio	Lower	Upper
43	100		
61	19.4	20.9	31.3#
87	12.2	10.6	16.0

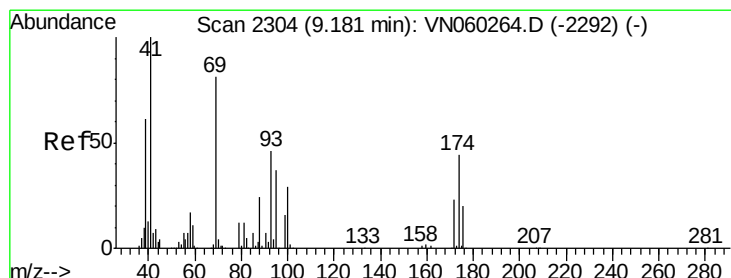
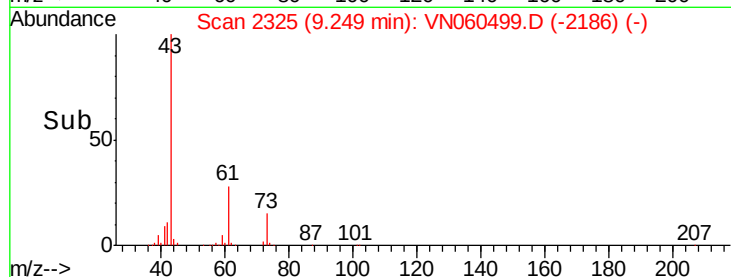
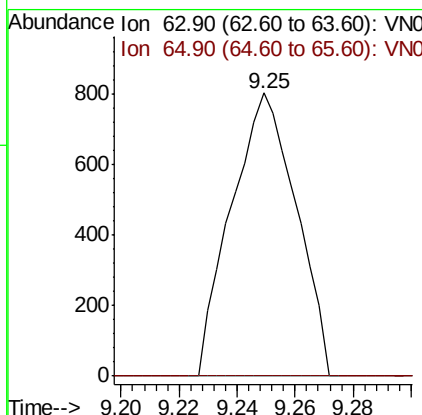
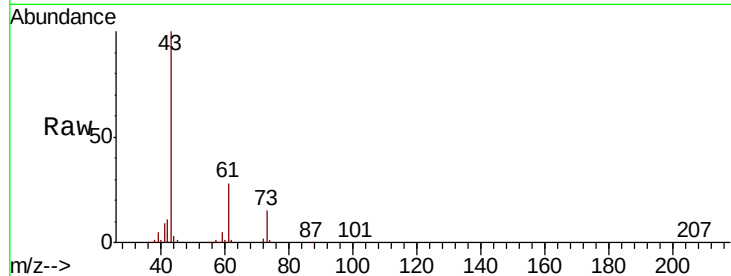




#45
 1,2-Dichloropropane
 Concen: 0.513 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060499.D
 Acq: 13 Mar 2020 13:56

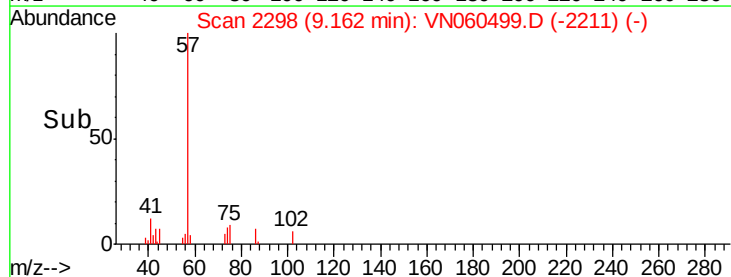
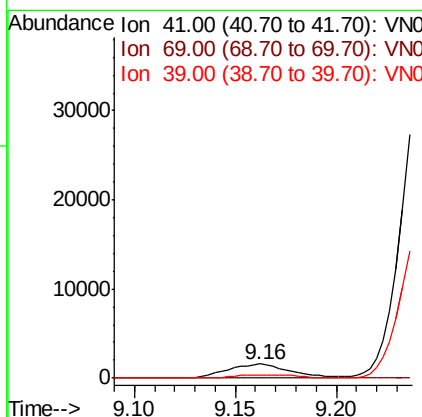
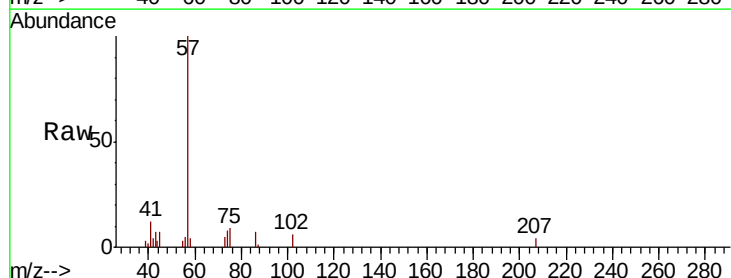
Instrument :
 MSVOA_N
 ClientSampled :

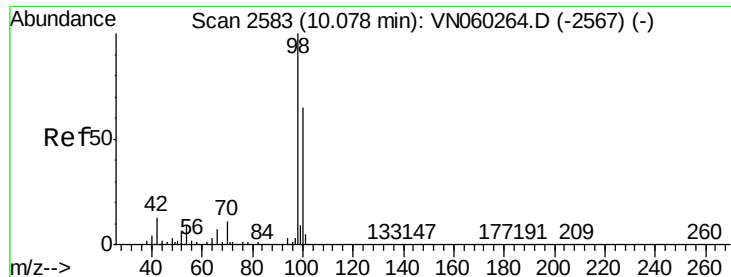
Tot Ion: 63 Resp: 1245
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.428 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060499.D
 Acq: 13 Mar 2020 13:56

Tgt Ion: 41 Resp: 3441
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 53.088 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

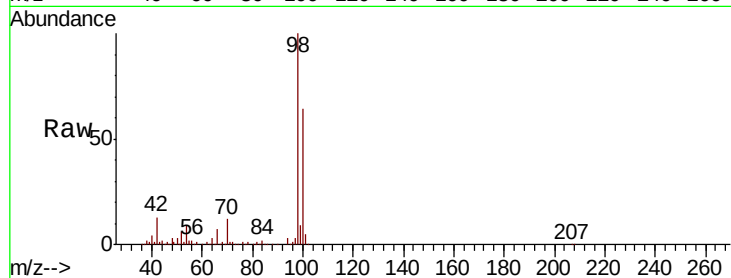
ClientSampled :

Tot Ion: 98 Resp: 417085

Ion Ratio Lower Upper

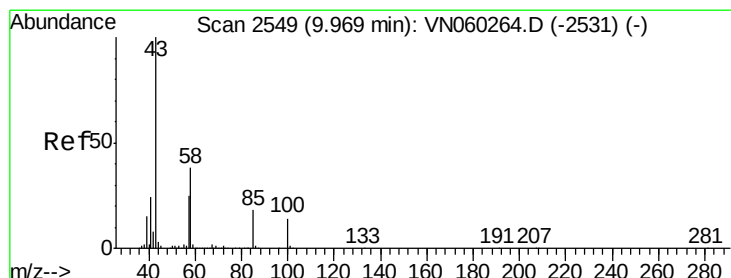
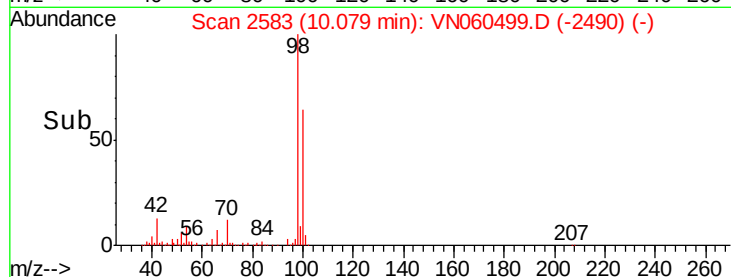
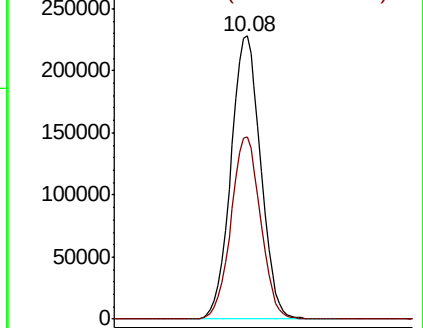
98 100

100 64.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.100 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060499.D

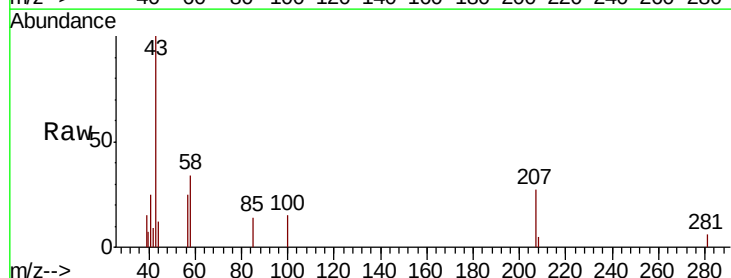
Acq: 13 Mar 2020 13:56

Tgt Ion: 43 Resp: 6290

Ion Ratio Lower Upper

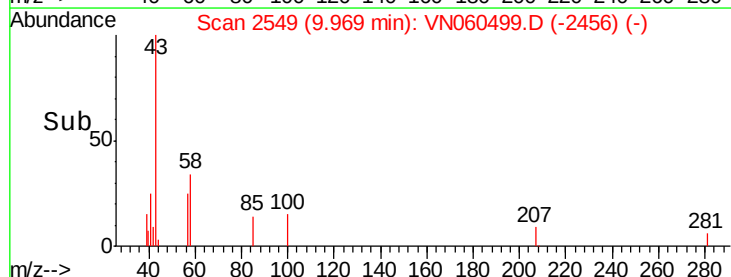
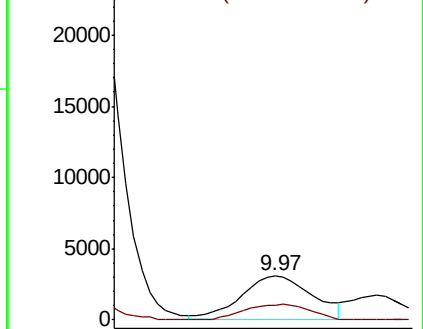
43 100

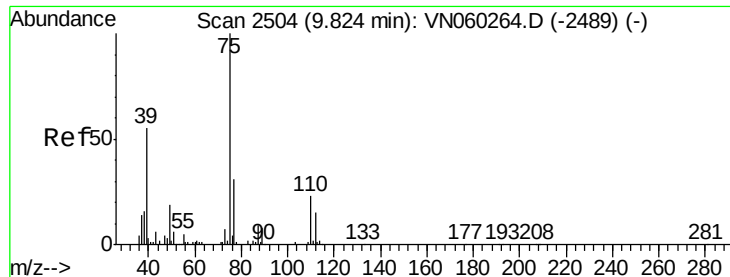
58 32.3 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.996 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

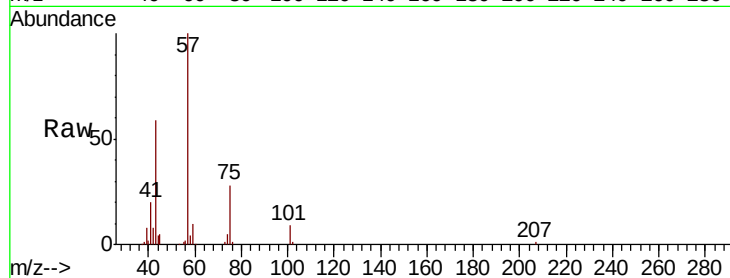
Tot Ion: 75 Resp: 28434

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

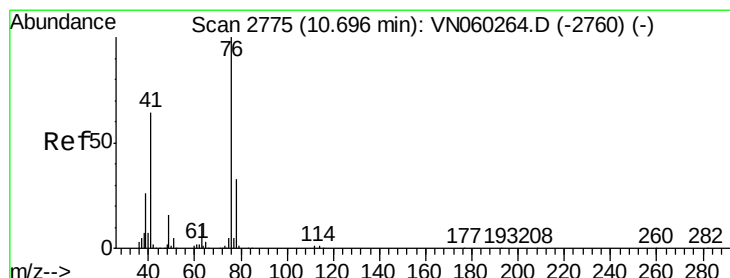
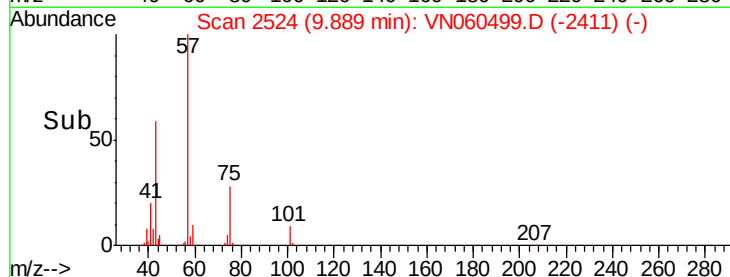
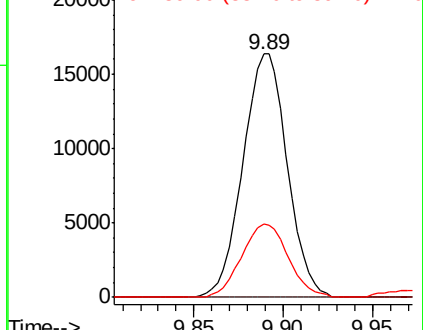
39 30.0 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060264.D (-2489) (-)



#57

1,3-Dichloropropane

Concen: 1.186 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060499.D

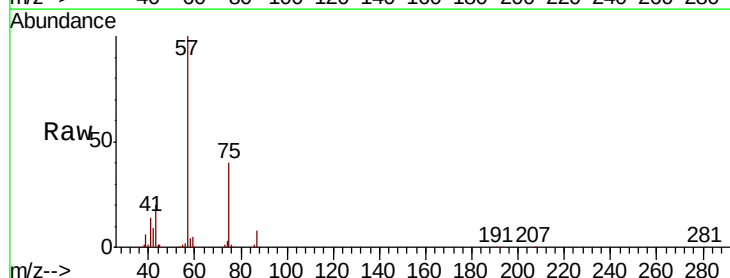
Acq: 13 Mar 2020 13:56

Tgt Ion: 76 Resp: 4532

Ion Ratio Lower Upper

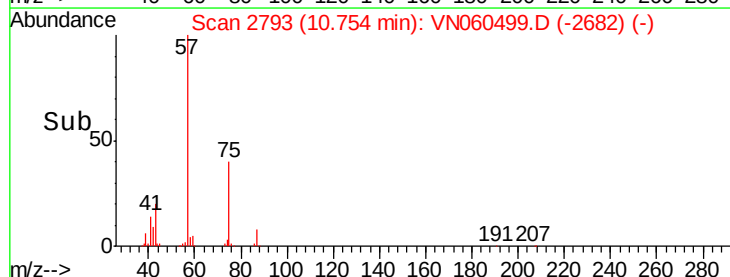
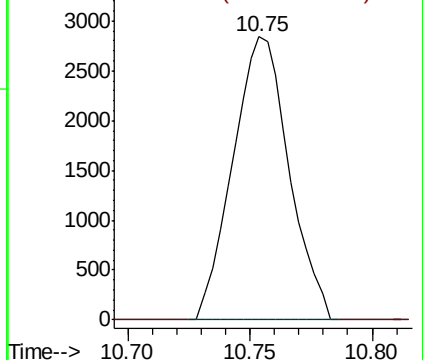
76 100

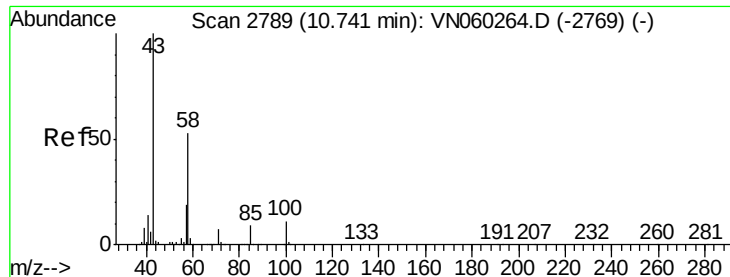
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-2760) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-2760) (-)

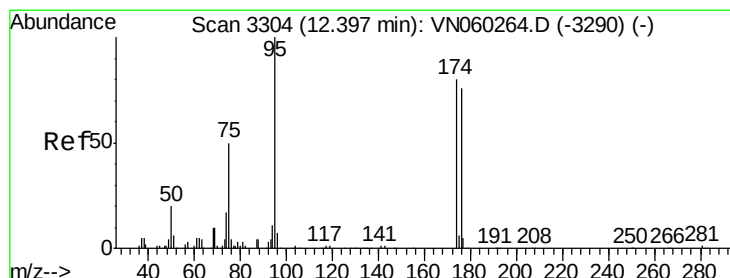
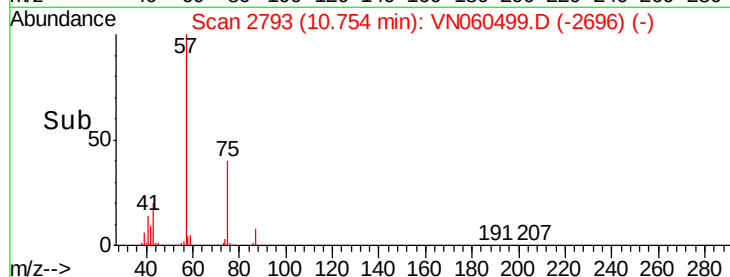
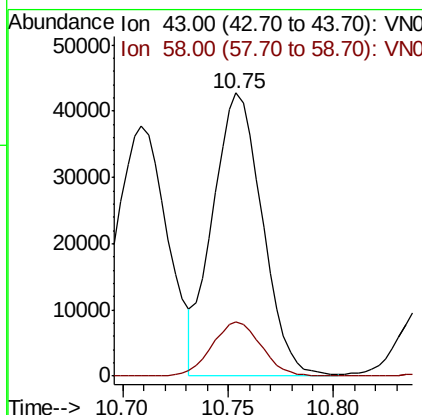
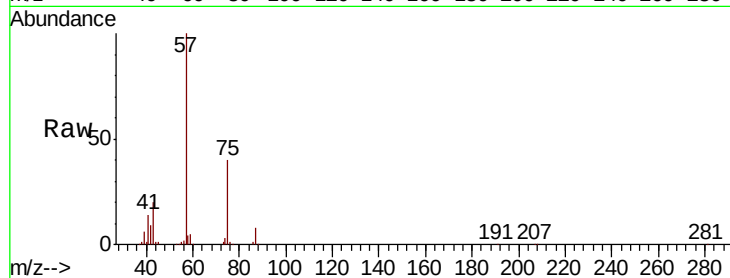




#59
2-Hexanone
Concen: 31.531 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

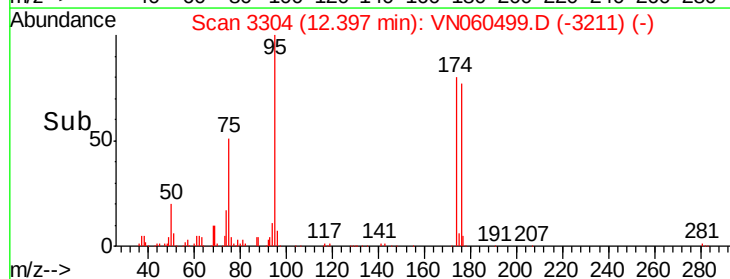
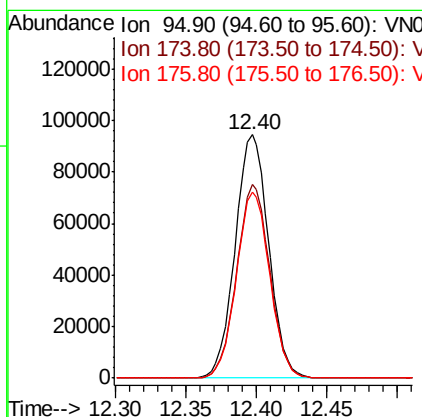
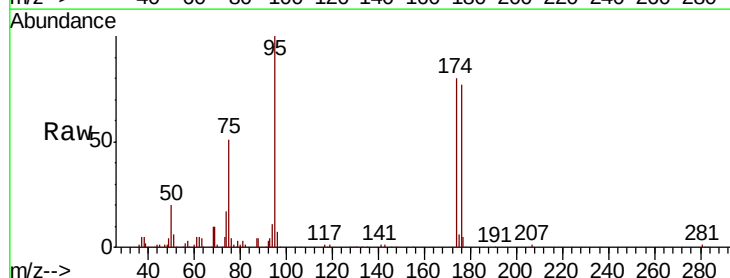
Instrument :
MSVOA_N
ClientSampled :

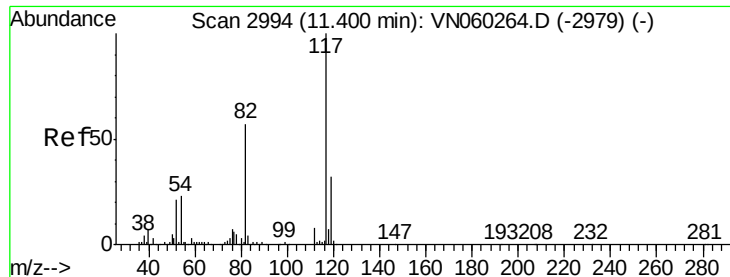
Tot Ion: 43 Resp: 69352
Ion Ratio Lower Upper
43 100
58 19.1 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.787 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Tgt Ion: 95 Resp: 157212
Ion Ratio Lower Upper
95 100
174 78.6 0.0 159.2
176 76.4 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: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampled :

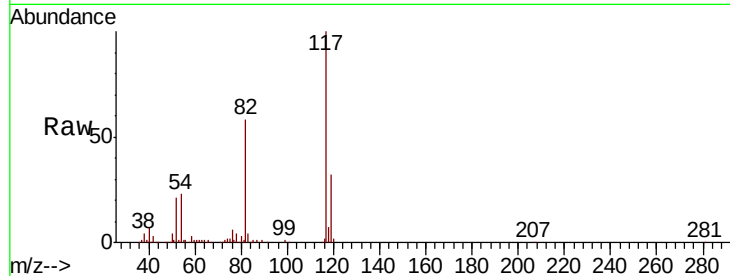
Tot Ion:117 Resp: 317988

Ion Ratio Lower Upper

117 100

82 57.9 45.8 68.6

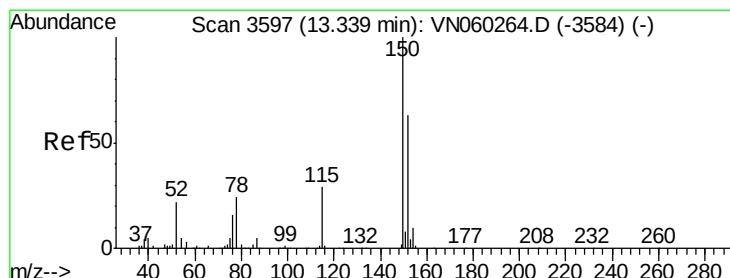
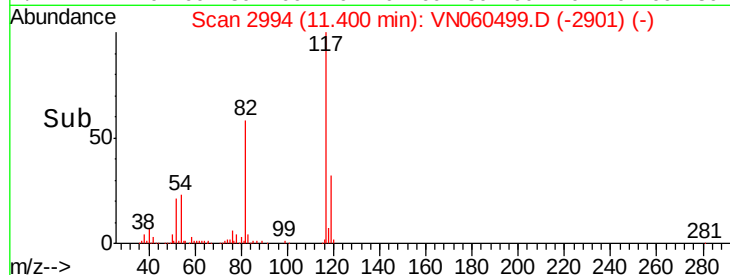
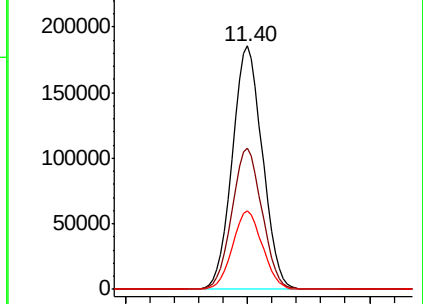
119 32.3 25.8 38.8



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: VN060499.D

Acq: 13 Mar 2020 13:56

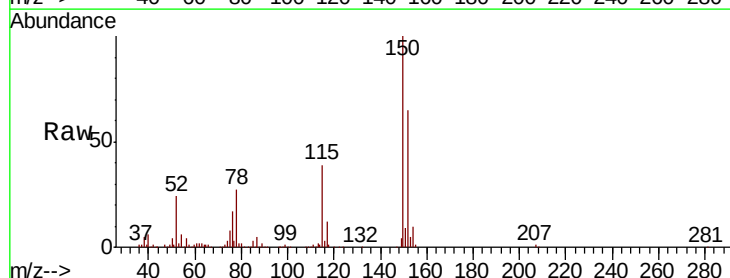
Tgt Ion:152 Resp: 150321

Ion Ratio Lower Upper

152 100

115 60.1 30.0 90.0

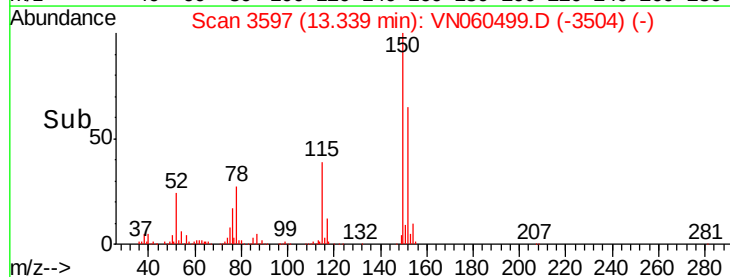
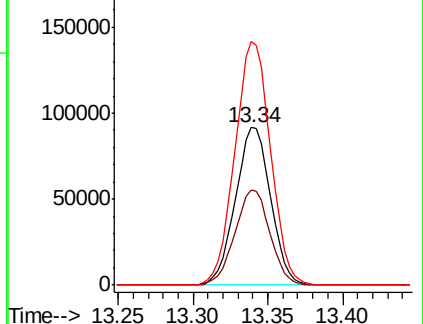
150 156.4 0.0 349.6

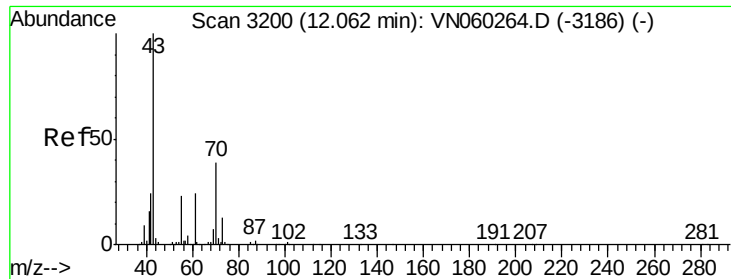


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

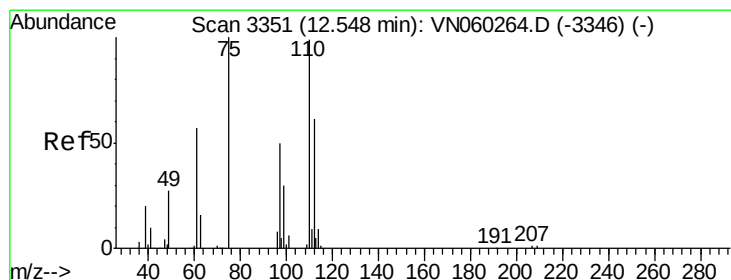
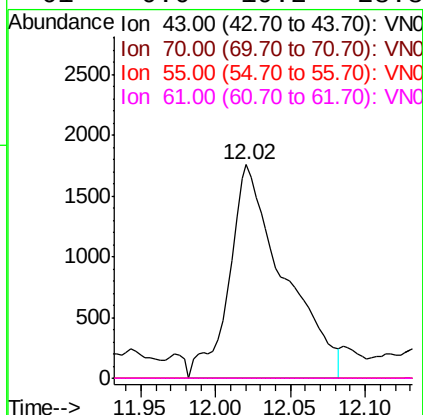
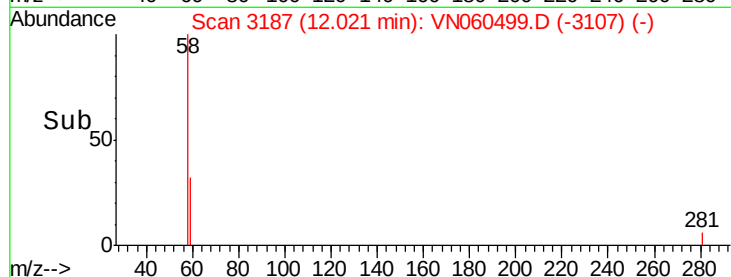
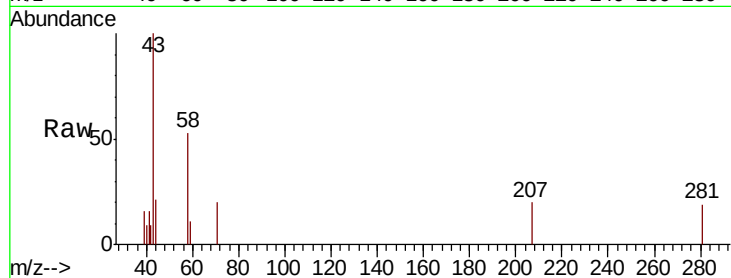




#74
N-amvl acetate
Concen: 0.913 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

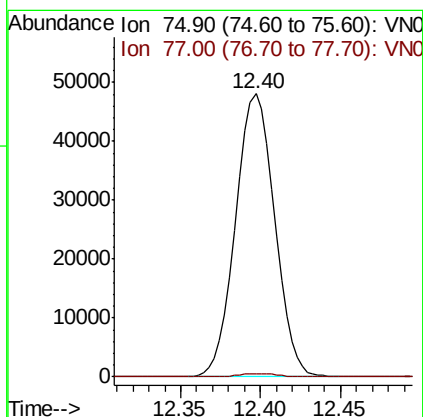
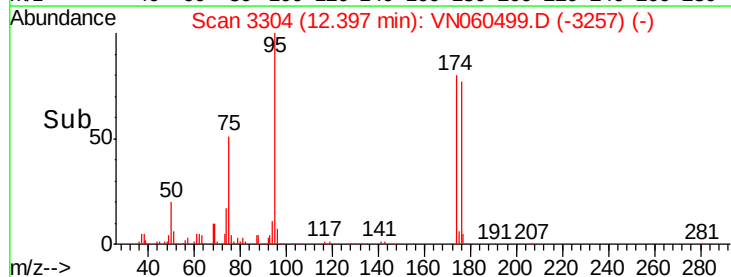
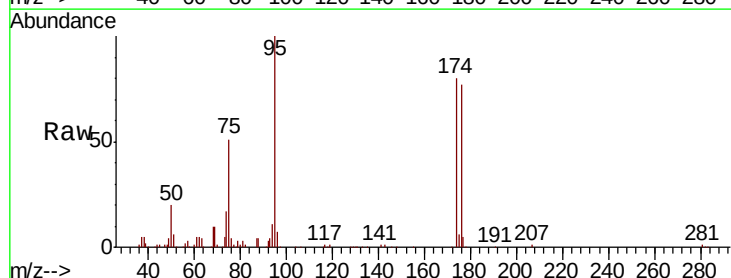
Instrument :
MSVOA_N
ClientSampled :

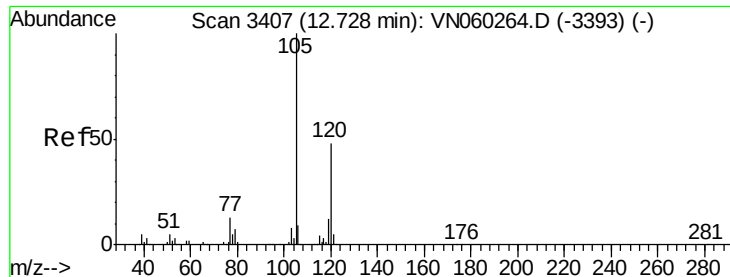
Tot Ion: 43 Resp: 4444
Ion Ratio Lower Upper
43 100
70 0.0 32.2 48.2#
55 0.0 18.2 27.4#
61 0.0 19.2 28.8#



#76
1,2,3-Trichloropropane
Concen: 24.300 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Tgt Ion: 75 Resp: 80143
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.455 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

Instrument :

MSVOA_N

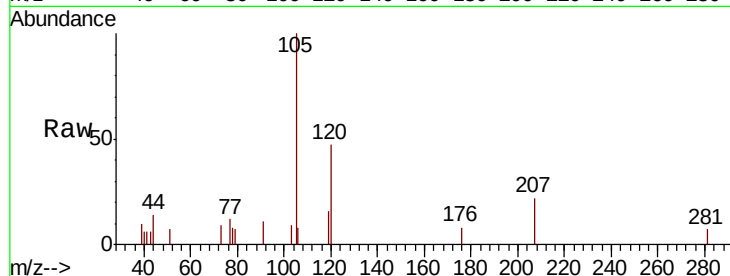
ClientSampleId :

Tot Ion:105 Resp: 4265

Ion Ratio Lower Upper

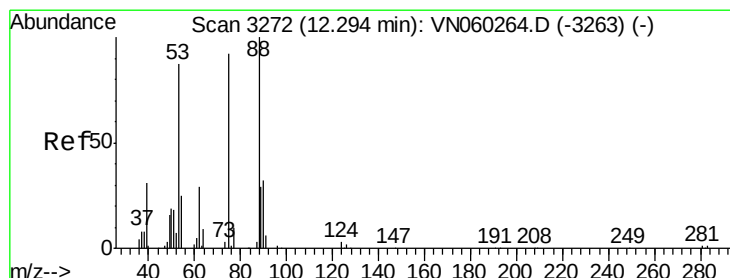
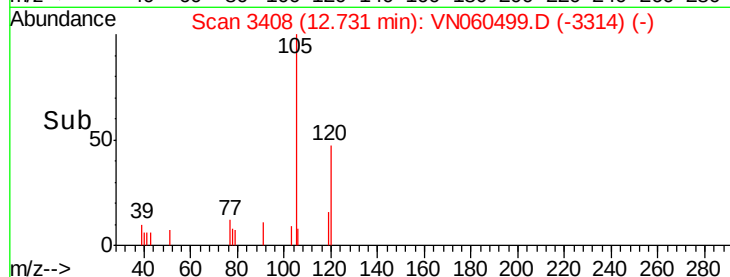
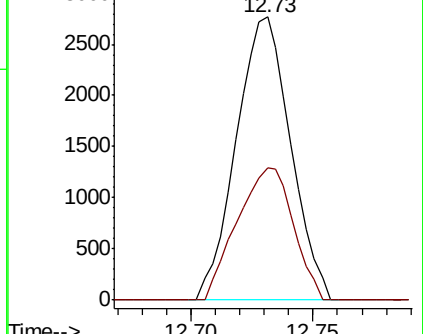
105 100

120 48.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.080 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060499.D

Acq: 13 Mar 2020 13:56

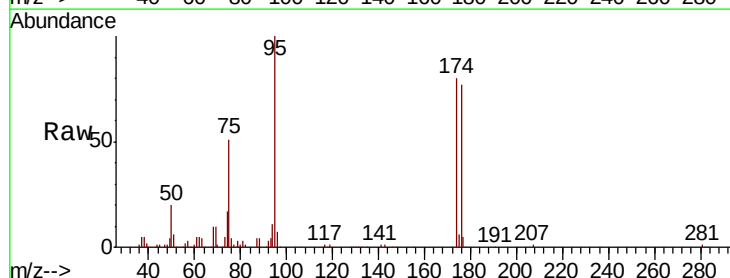
Tgt Ion: 75 Resp: 80143

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

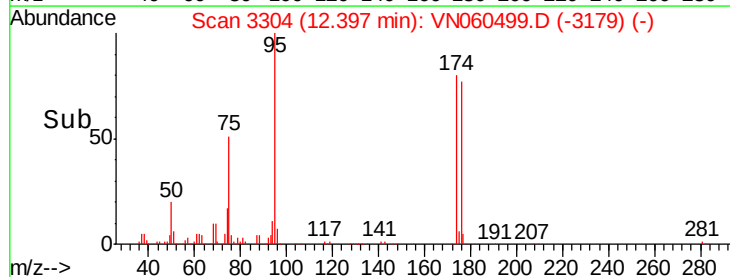
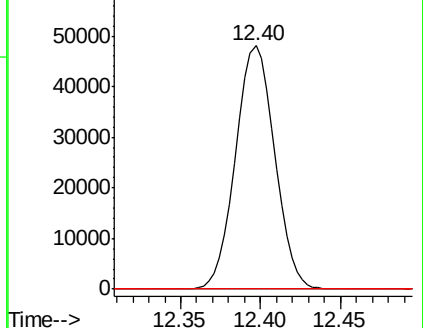
89 0.0 57.1 85.7#

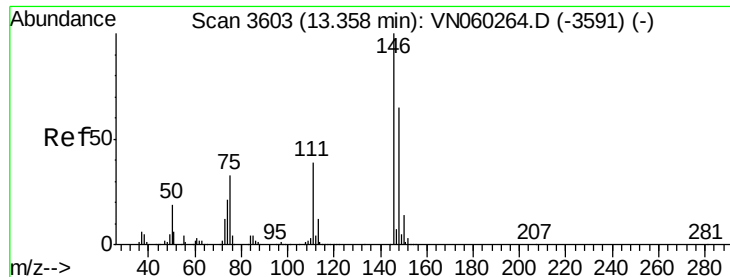


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

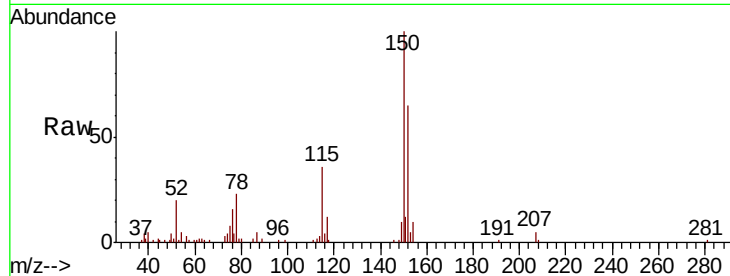




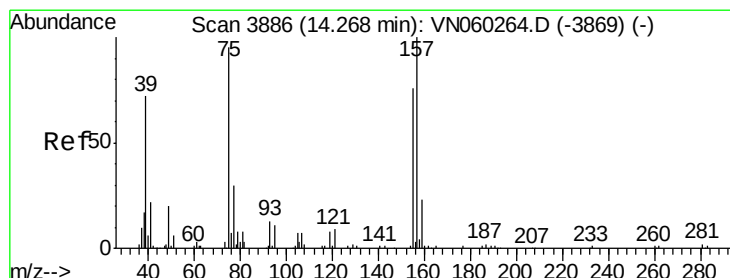
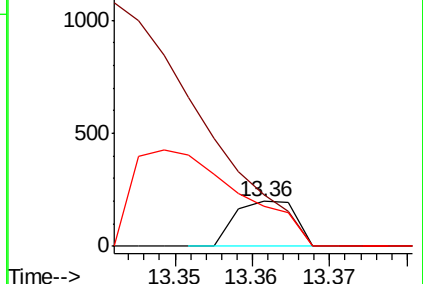
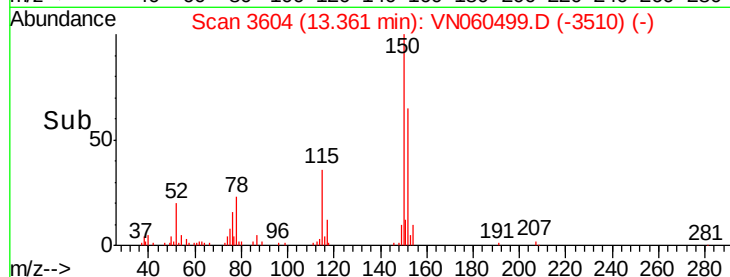
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN060499.D
 Acq: 13 Mar 2020 13:56

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 108
 Ion Ratio Lower Upper
 146 100
 111 1749.1 19.8 59.4#
 148 376.9 32.3 96.9#

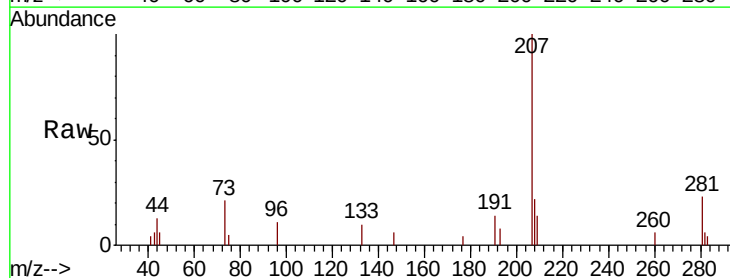


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

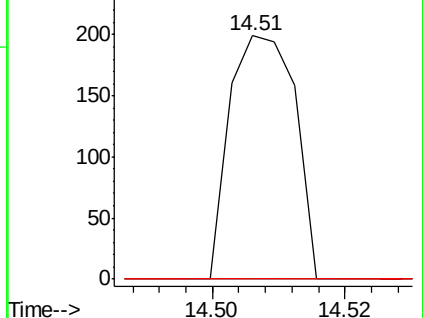
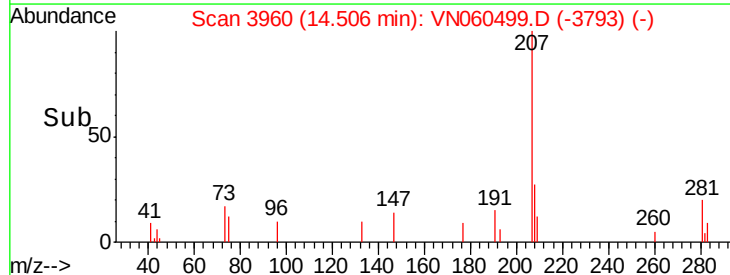


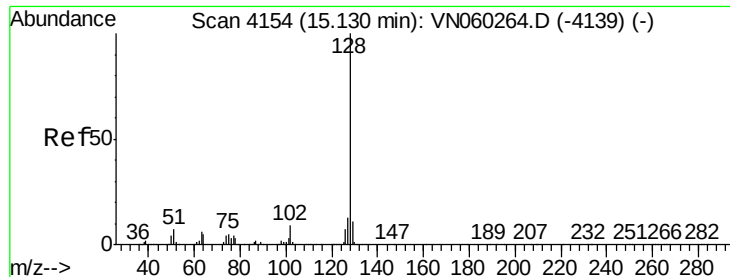
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.201 ug/l
 RT: 14.51 min Scan# 3960
 Delta R.T. 0.24 min
 Lab File: VN060499.D
 Acq: 13 Mar 2020 13:56

Tgt Ion: 75 Resp: 138
 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

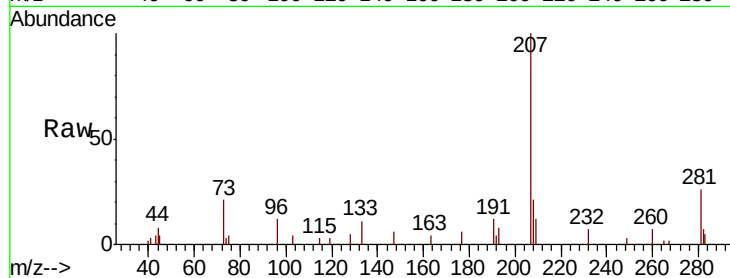




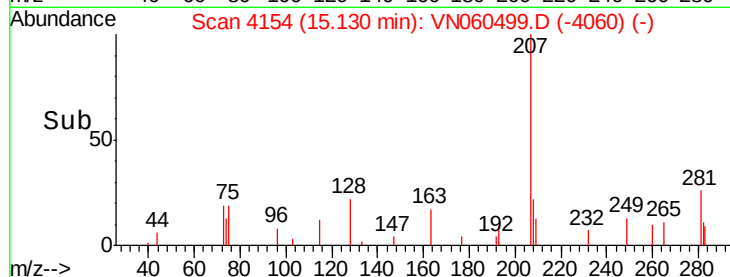
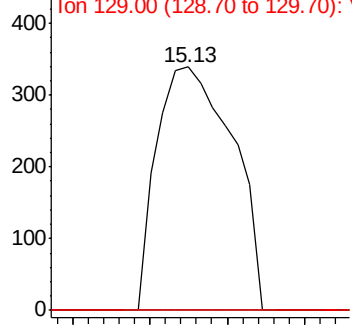
#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060499.D
Acq: 13 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



Time--> 15.10 15.12 15.14 15.16