

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060504.D
 Acq On : 13 Mar 2020 15:49
 Operator : JC/MD
 Sample : PB127506ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:29:41 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	190470	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	311670	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293478	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136002	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	122237	50.02	ug/l	0.00
Spiked Amount						
			Recovery	=	100.04%	
35) Dibromofluoromethane	7.57	113	92544	63.97	ug/l	0.00
Spiked Amount						
			Recovery	=	127.94%	
50) Toluene-d8	10.08	98	385193	52.61	ug/l	0.00
Spiked Amount						
			Recovery	=	105.22%	
62) 4-Bromofluorobenzene	12.40	95	144171	51.94	ug/l	0.00
Spiked Amount						
			Recovery	=	103.88%	

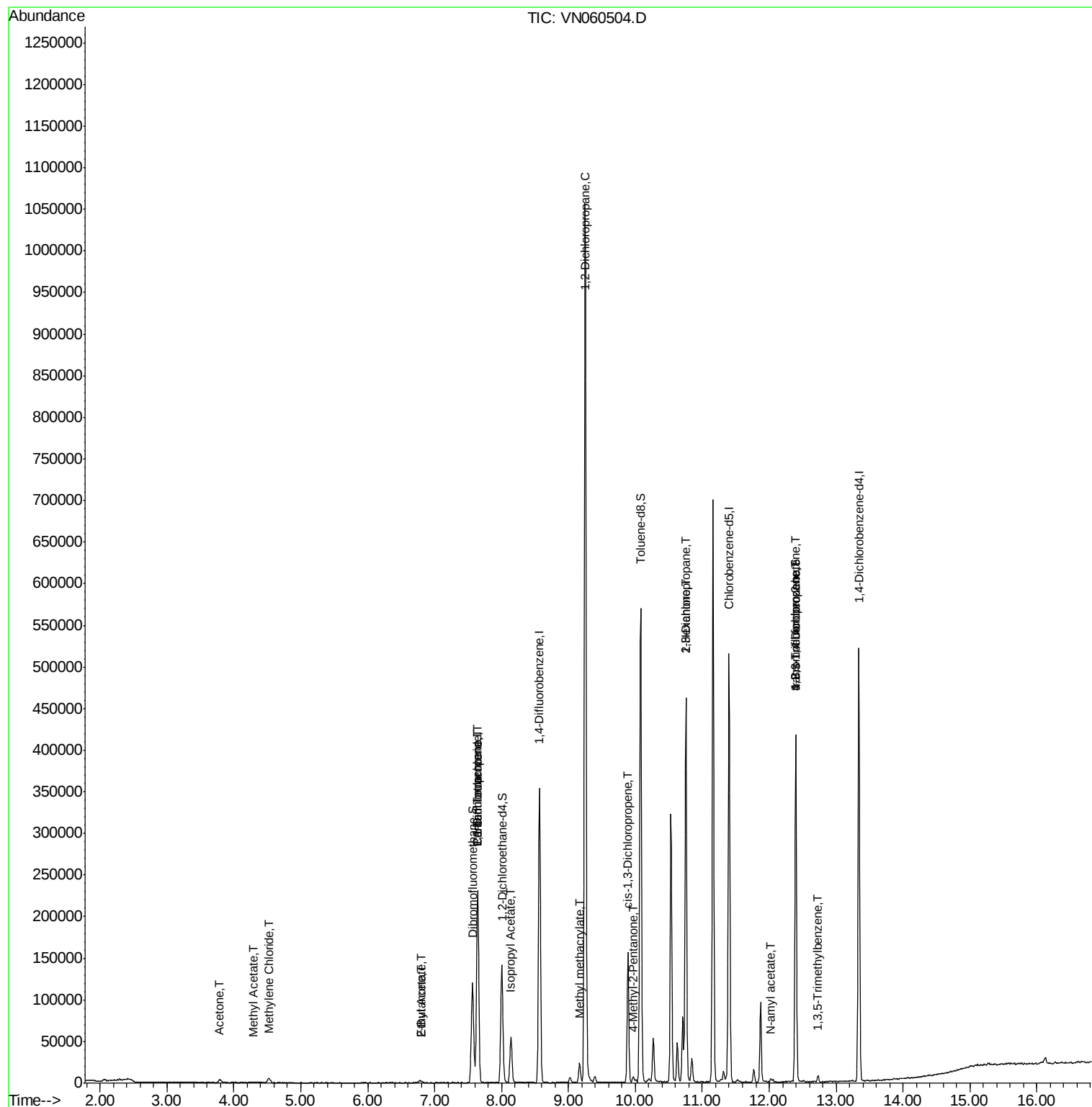
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6541	8.289	ug/l	97
18) Methyl Acetate	4.29	43	2030	0.771	ug/l #	52
20) Methylene Chloride	4.52	84	4339	2.002	ug/l #	93
25) 2-Butanone	6.82	43	1187	0.931	ug/l #	49
31) Cyclohexane	7.64	56	3855	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15170	5.107	ug/l #	48
37) Ethyl Acetate	6.82	43	1187	0.422	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18061	6.245	ug/l #	16
43) Isopropyl Acetate	8.14	43	64550	13.110	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1152	0.510	ug/l #	44
48) Methyl methacrylate	9.16	41	3144	1.400	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5465	1.958	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	27546	7.273	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	4662	1.309	ug/l #	42
59) 2-Hexanone	10.75	43	67896	33.124	ug/l #	51
74) N-amyl acetate	12.02	43	3283	0.745	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	74401	24.934	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4493	0.529	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	74401	68.830	ug/l #	8
95) Naphthalene	15.13	128	90	Below Cal	#	69

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

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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: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

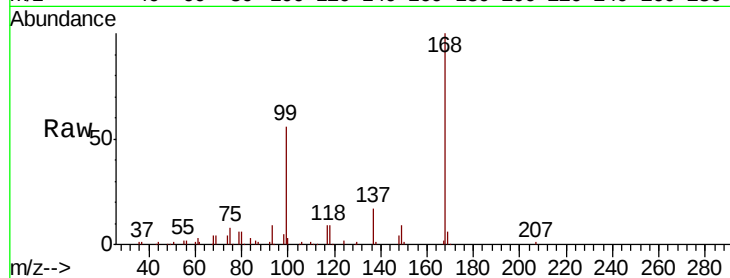
ClientSampled :

Tot Ion:168 Resp: 190470

Ion Ratio Lower Upper

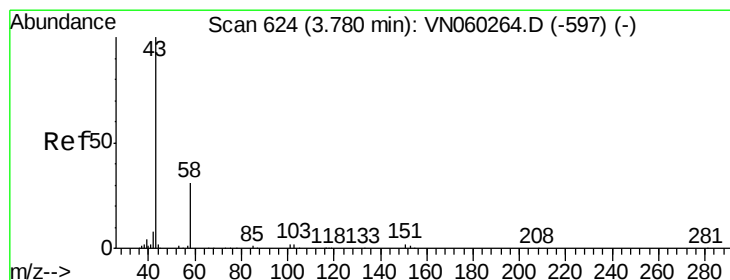
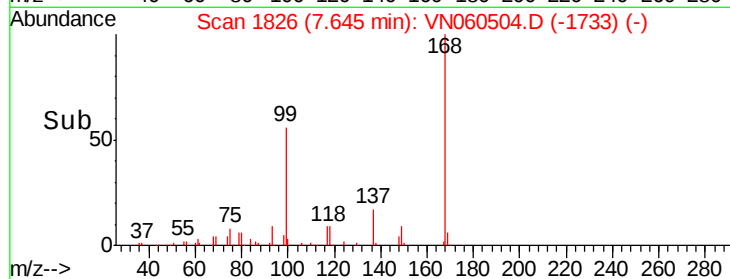
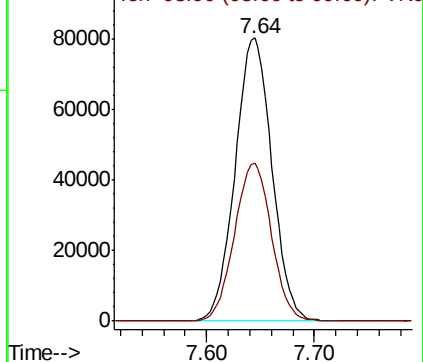
168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 8.289 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060504.D

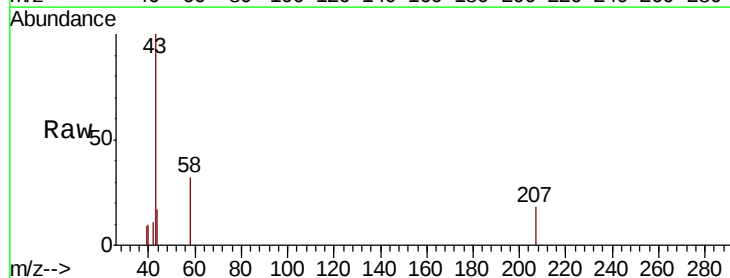
Acq: 13 Mar 2020 15:49

Tgt Ion: 43 Resp: 6541

Ion Ratio Lower Upper

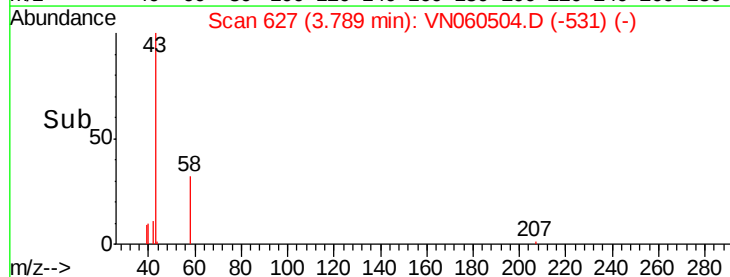
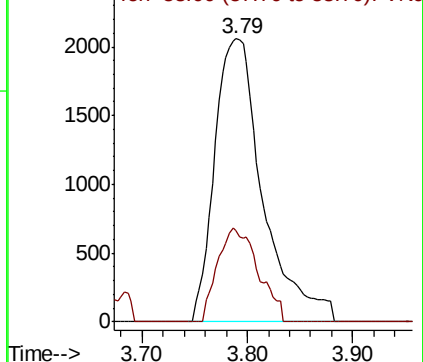
43 100

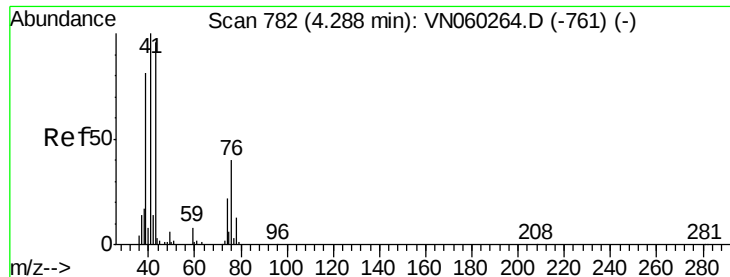
58 32.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

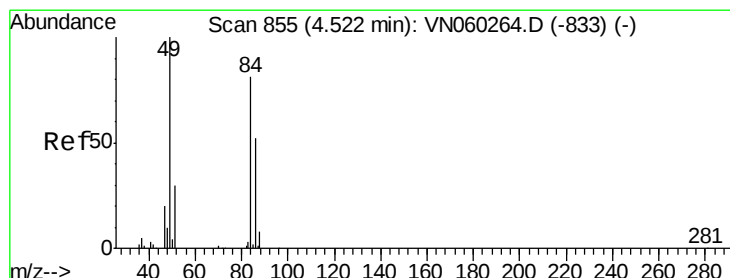
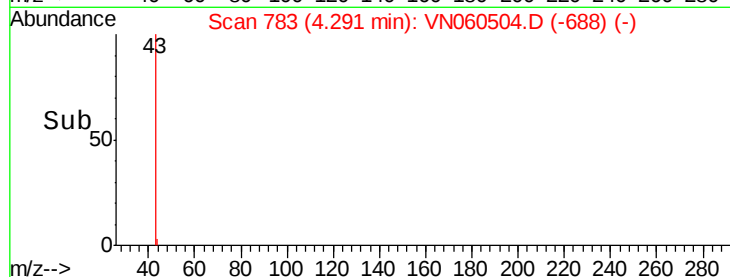
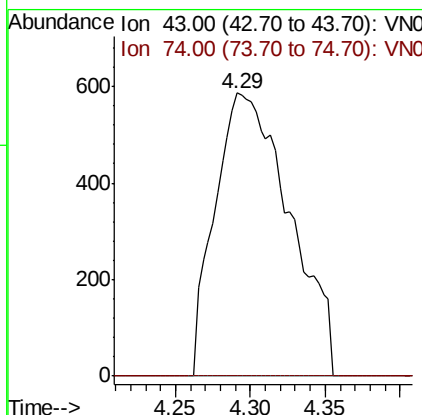
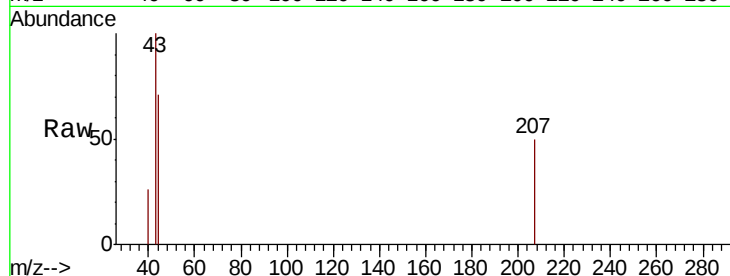




#18
Methyl Acetate
Concen: 0.771 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060504.D
Acq: 13 Mar 2020 15:49

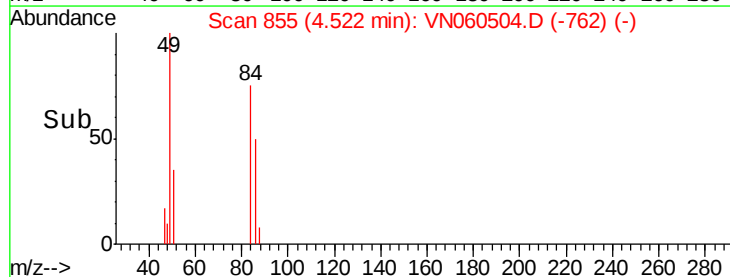
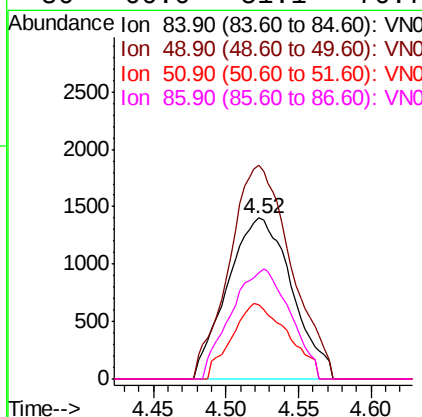
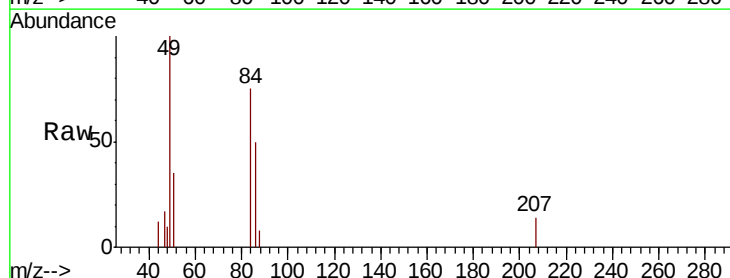
Instrument :
MSVOA_N
ClientSampled :

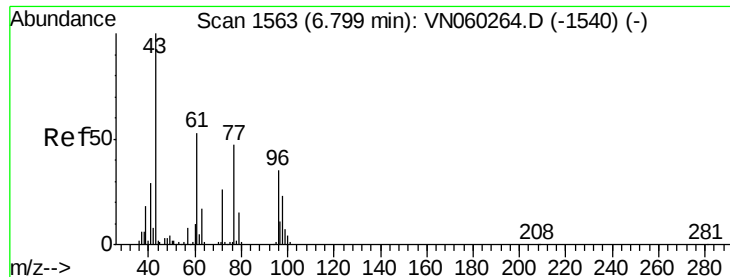
Tot Ion: 43 Resp: 2030
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 2.002 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060504.D
Acq: 13 Mar 2020 15:49

Tgt Ion: 84 Resp: 4339
Ion Ratio Lower Upper
84 100
49 132.7 99.3 148.9
51 46.0 30.1 45.1#
86 66.0 51.1 76.7





#25

2-Butanone

Concen: 0.931 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

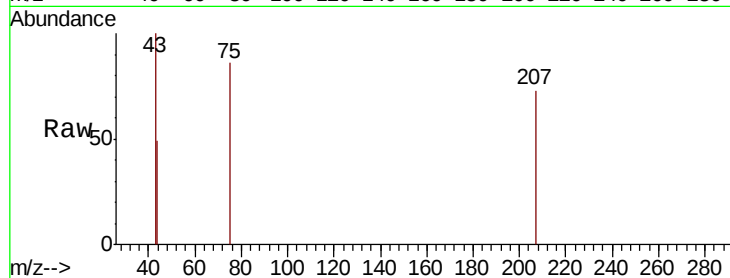
ClientSampled :

Tot Ion: 43 Resp: 1187

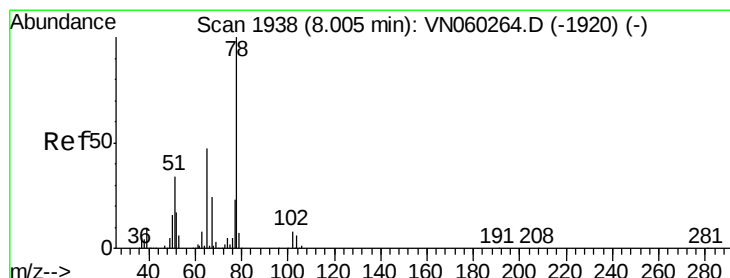
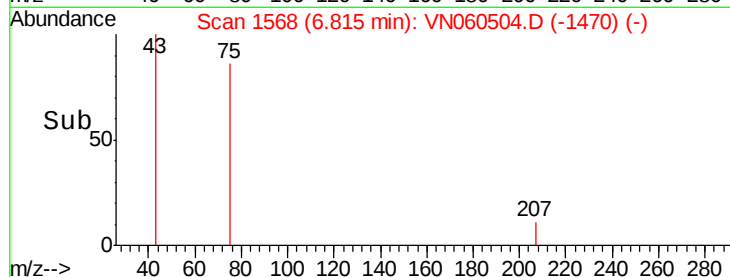
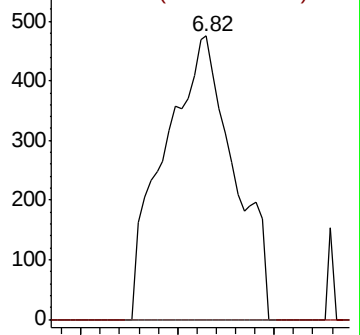
Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1540) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.020 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060504.D

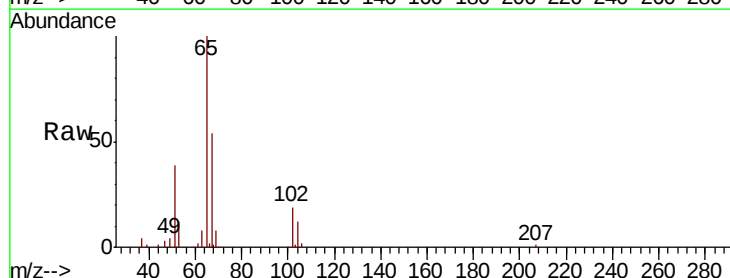
Acq: 13 Mar 2020 15:49

Tgt Ion: 65 Resp: 122237

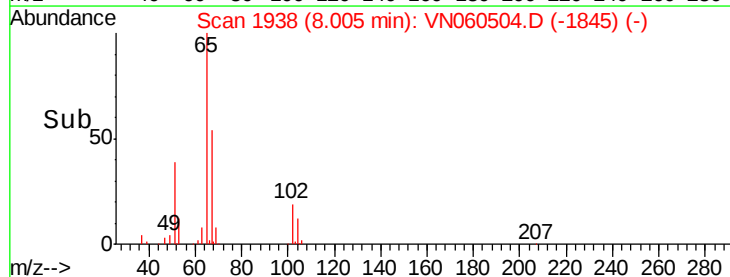
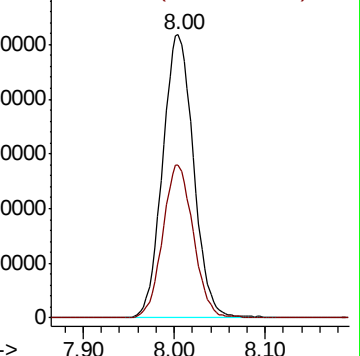
Ion Ratio Lower Upper

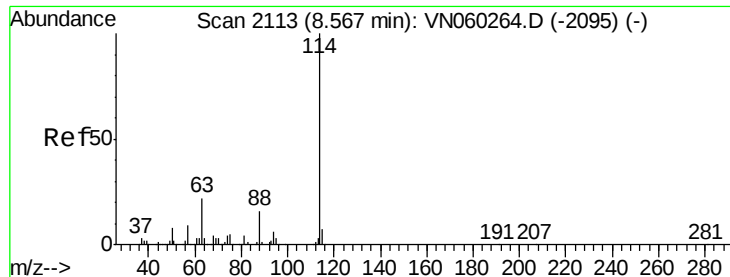
65 100

67 53.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060264.D (-1920) (-)

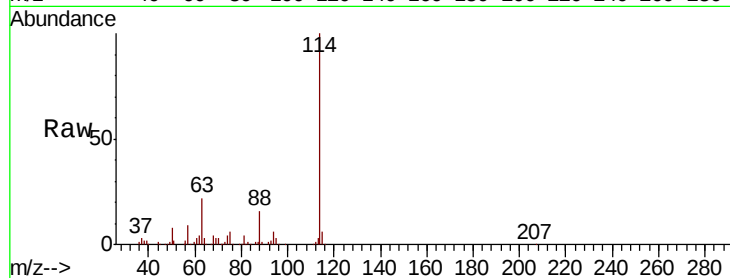




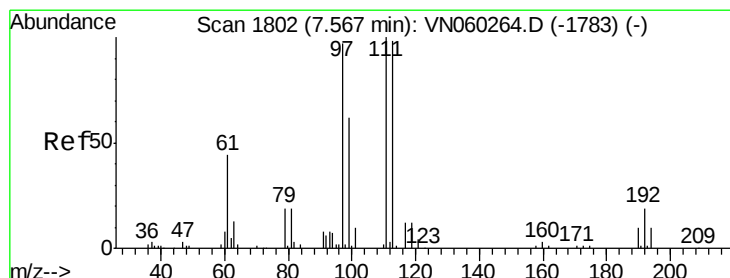
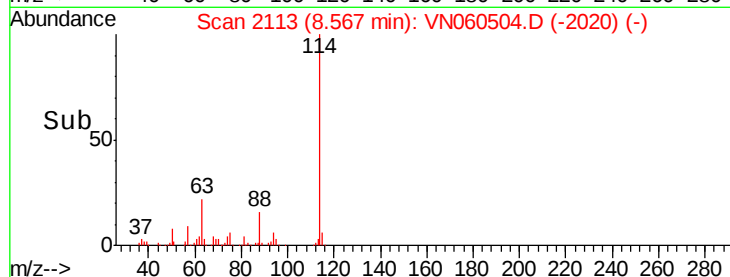
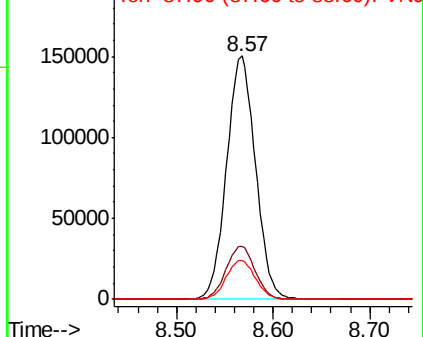
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 311670
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.2
 88 16.0 0.0 31.6

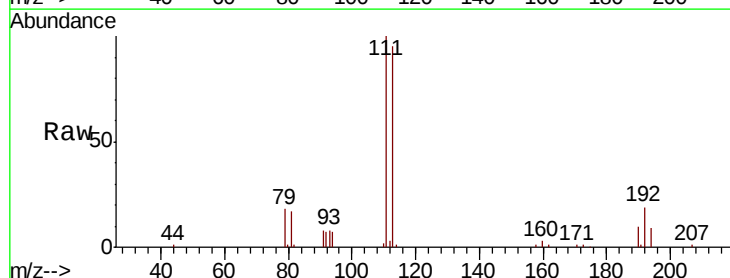


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

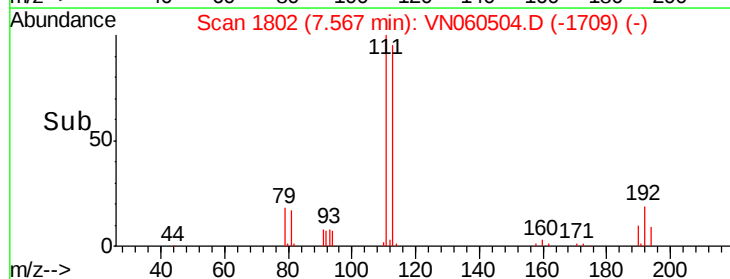
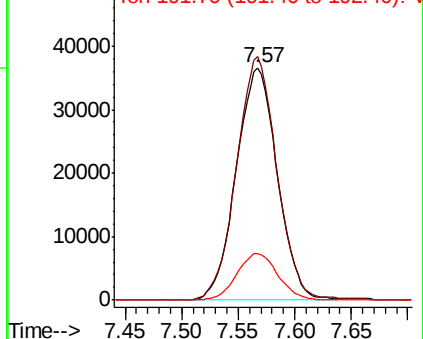


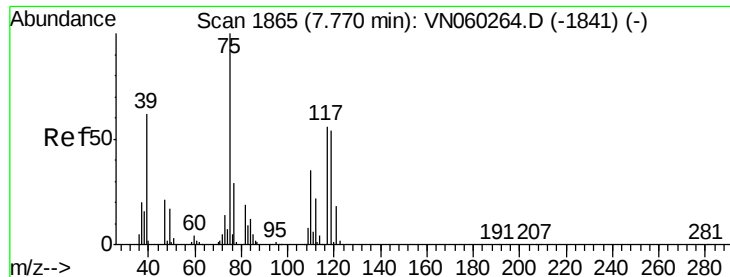
#35
 Dibromofluoromethane
 Concen: 63.970 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

Tgt Ion:113 Resp: 92544
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.4 123.6
 192 19.9 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

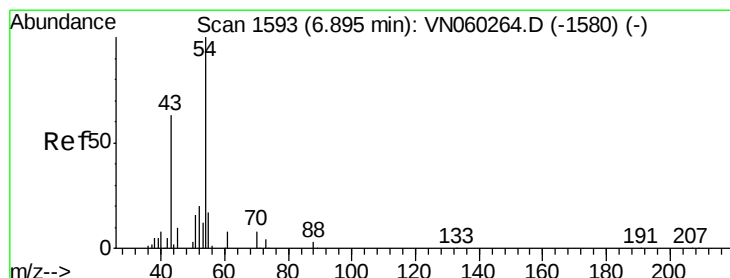
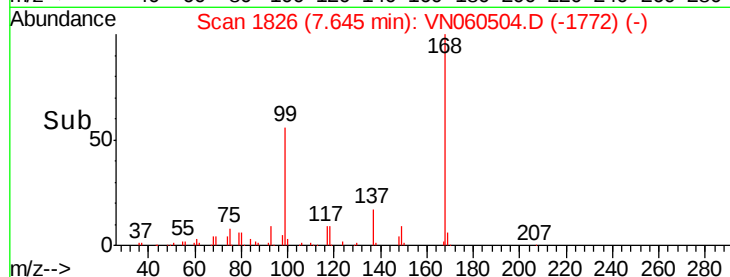
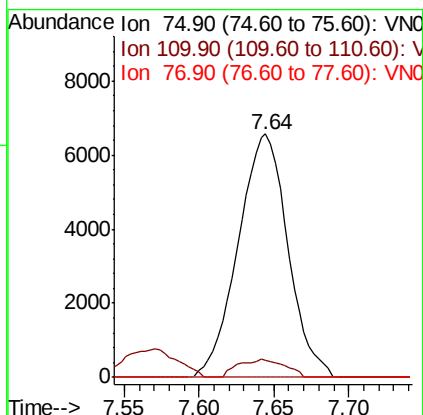
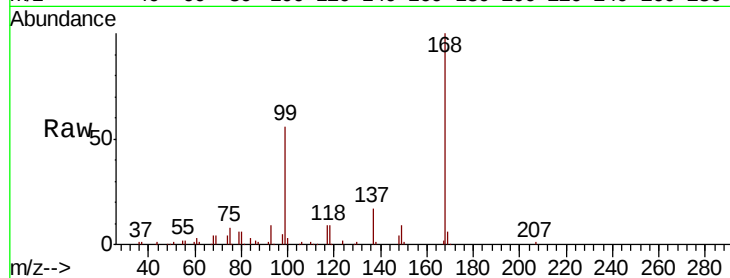




#36
 1,1-Dichloropropene
 Concen: 5.107 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

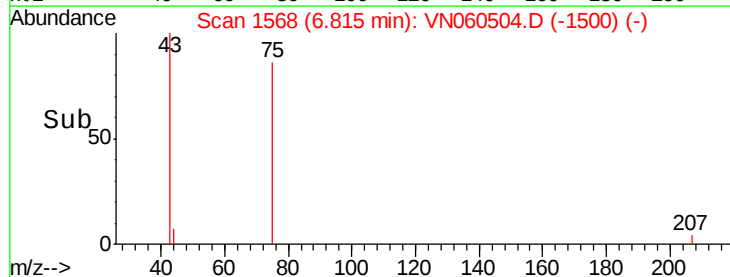
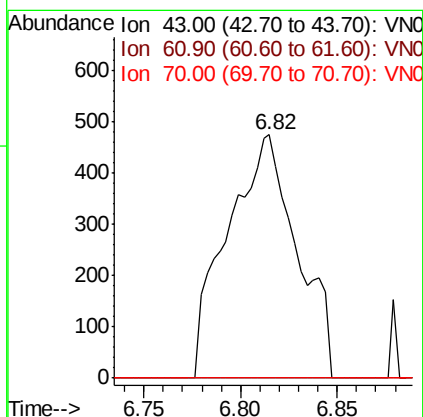
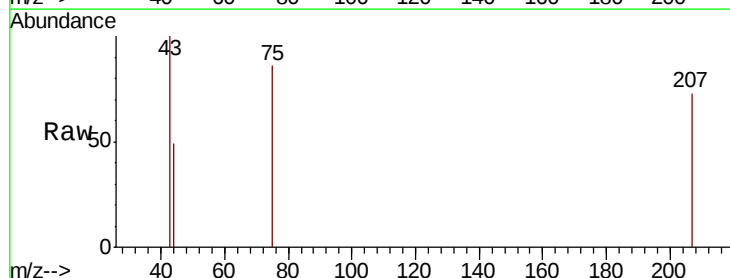
Instrument :
 MSVOA_N
 ClientSampleId :

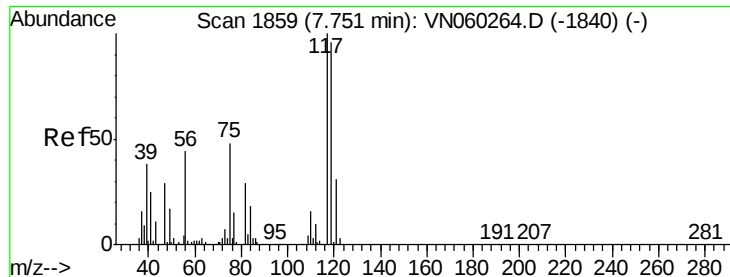
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	17.3	52.0#
77	0.0	24.2	36.2#



#37
 Ethyl Acetate
 Concen: 0.422 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. -0.08 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	8.4	12.6#





#38

Carbon Tetrachloride

Concen: 6.245 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

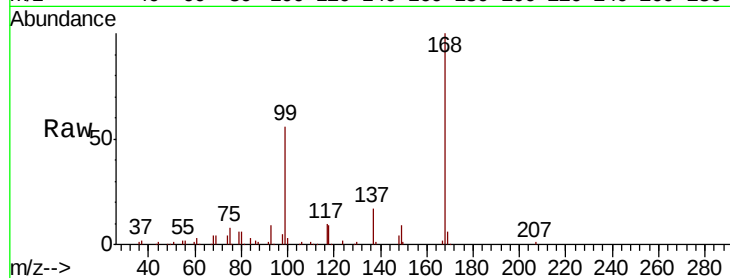
Tot Ion:117 Resp: 18061

Ion Ratio Lower Upper

117 100

119 4.8 76.7 115.1#

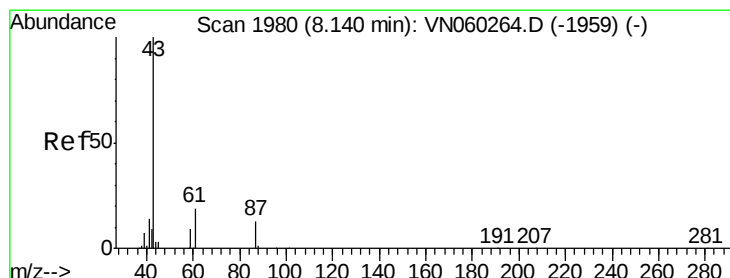
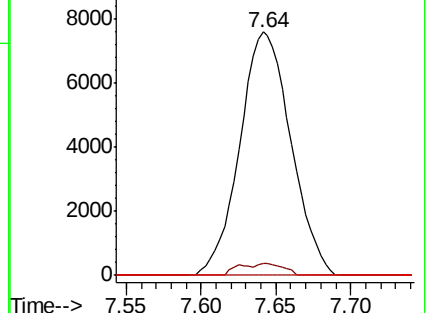
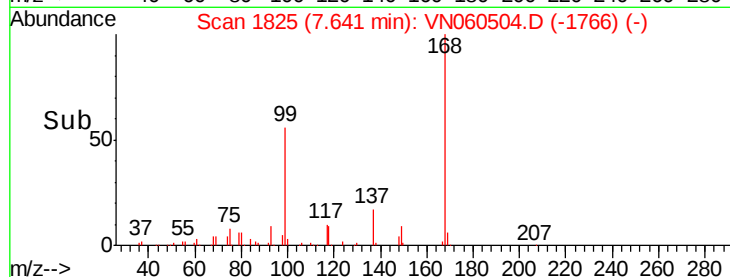
121 0.0 24.5 36.7#



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: 13.110 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

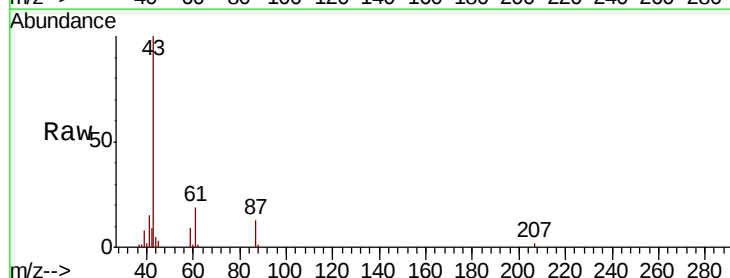
Tgt Ion: 43 Resp: 64550

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

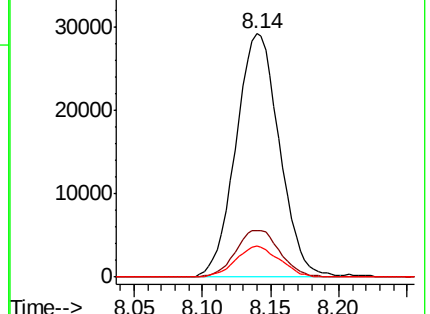
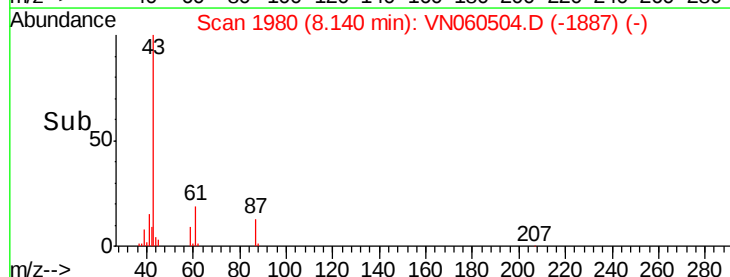
87 12.6 10.6 16.0

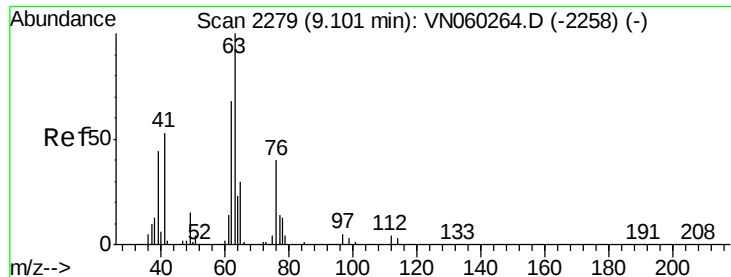


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

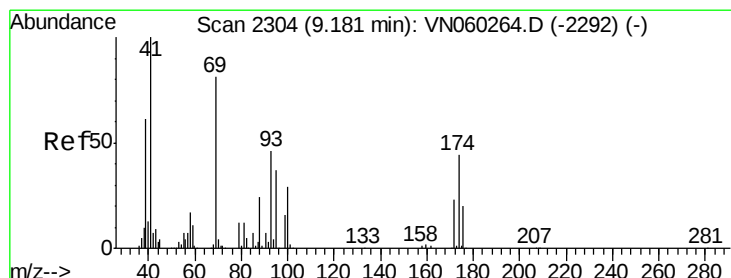
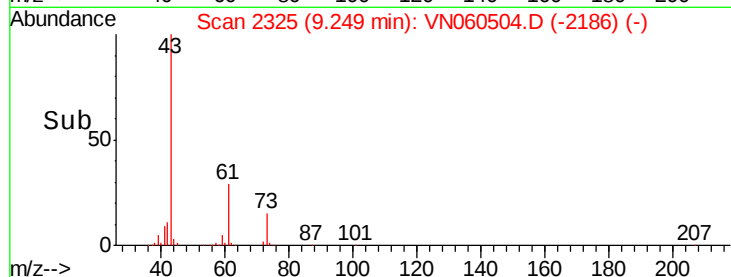
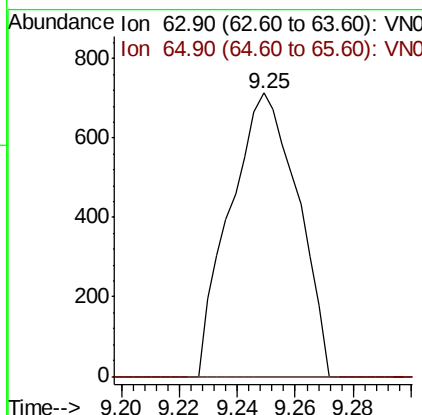
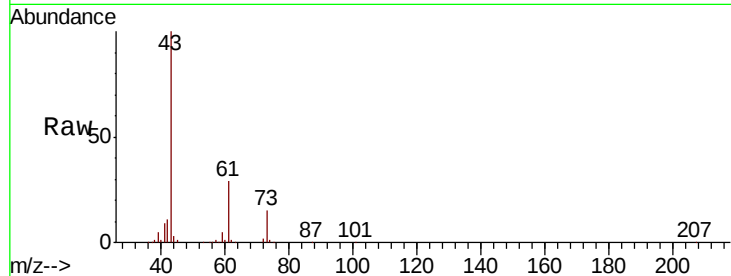




#45
 1,2-Dichloropropane
 Concen: 0.510 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

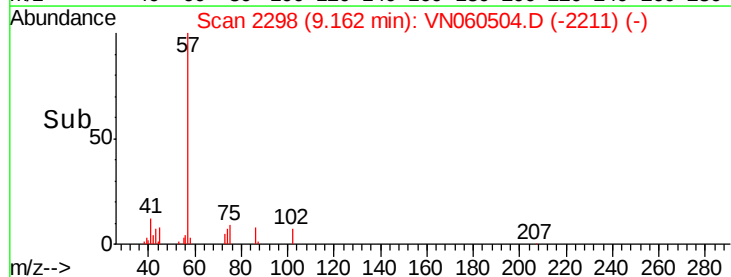
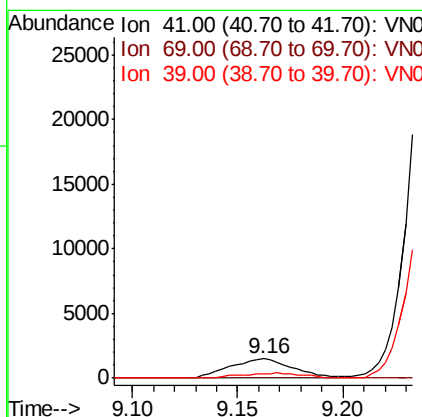
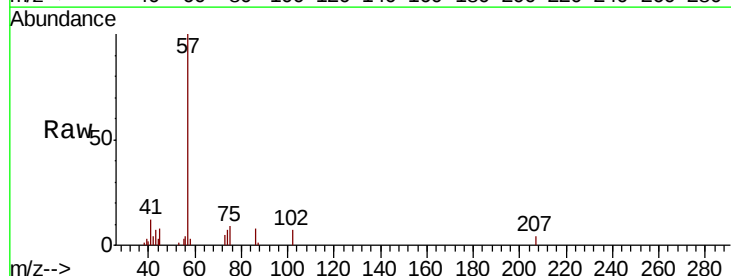
Instrument :
 MSVOA_N
 ClientSampled :

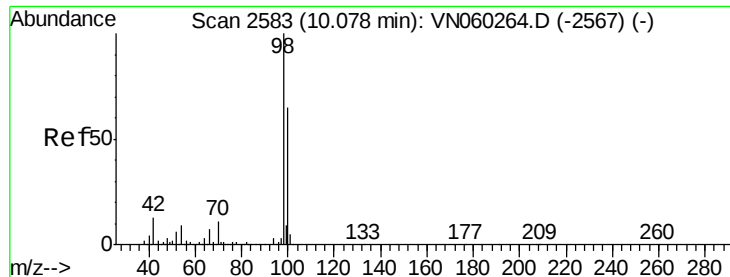
Tot Ion: 63 Resp: 1152
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.400 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

Tgt Ion: 41 Resp: 3144
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.609 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

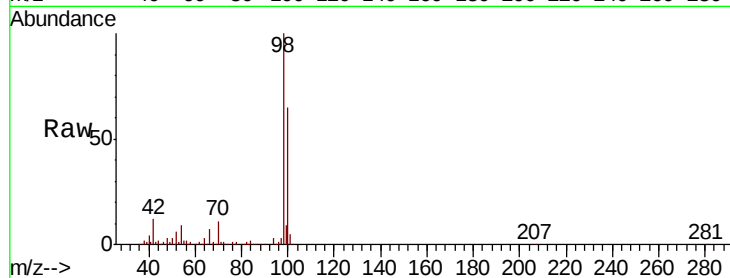
ClientSampled :

Tot Ion: 98 Resp: 385193

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060264.D (-2567) (-)

10.08

200000

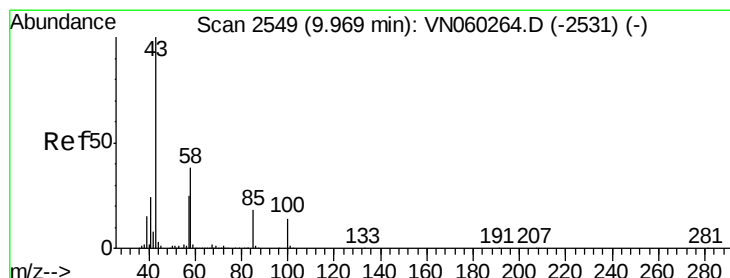
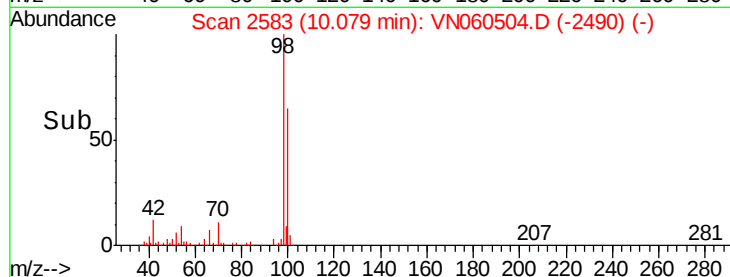
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.958 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060504.D

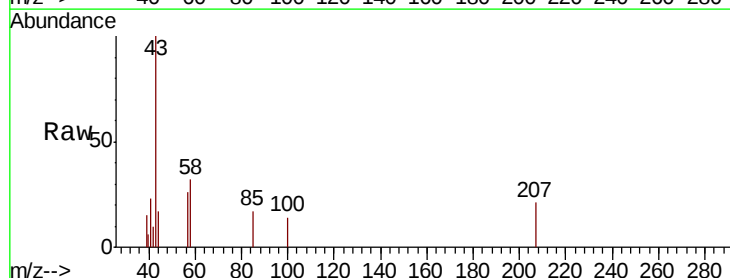
Acq: 13 Mar 2020 15:49

Tgt Ion: 43 Resp: 5465

Ion Ratio Lower Upper

43 100

58 34.1 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)

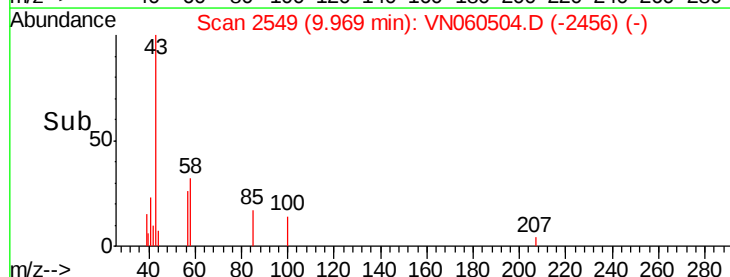
15000

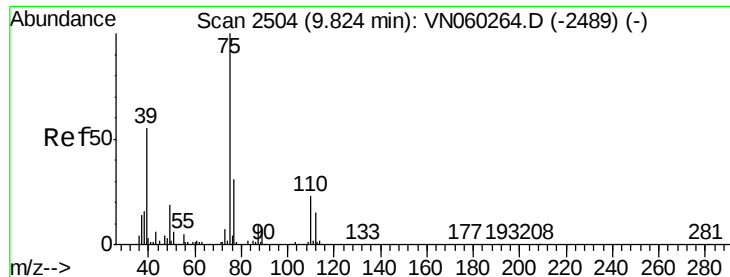
10000

5000

0

Time-->



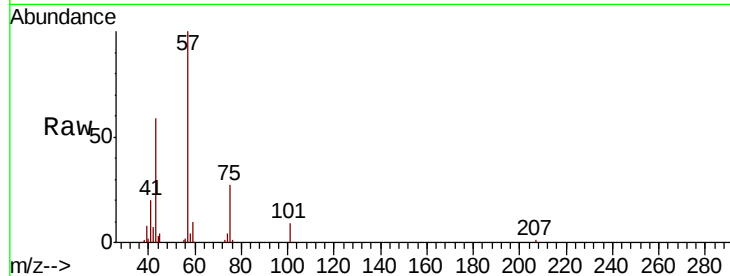


#54

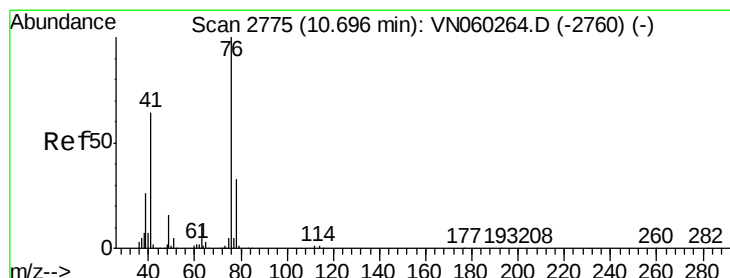
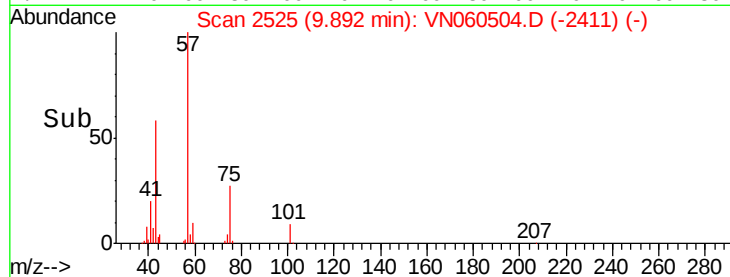
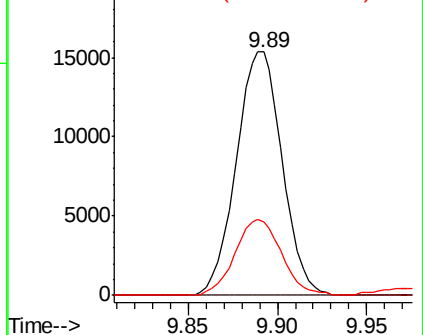
cis-1,3-Dichloropropene
 Concen: 7.273 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	30.1	43.8	65.8#



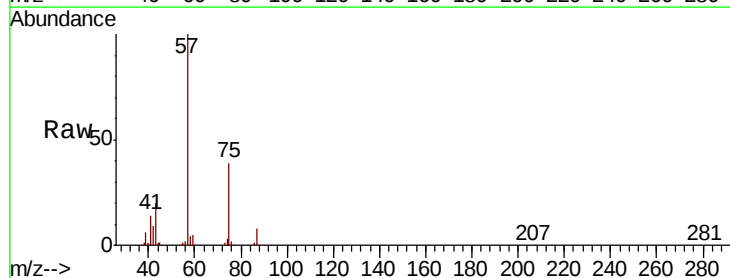
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



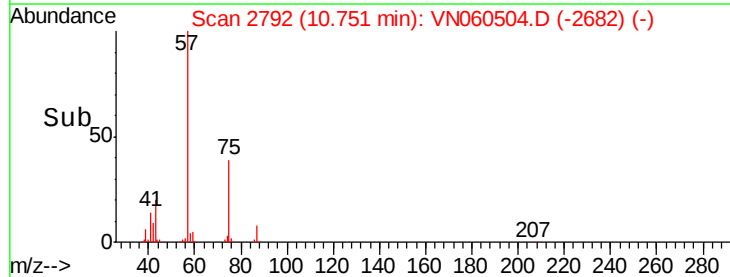
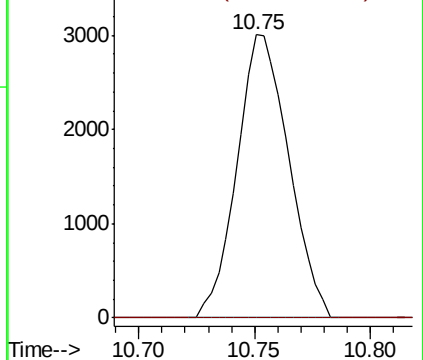
#57

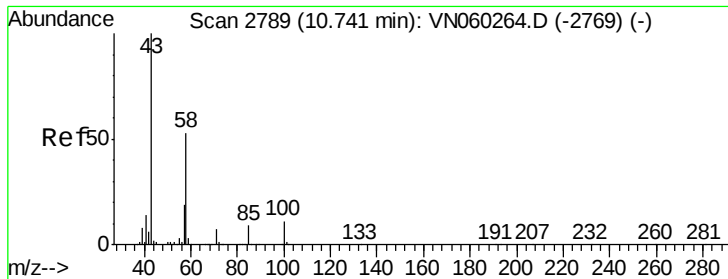
1,3-Dichloropropane
 Concen: 1.309 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060504.D
 Acq: 13 Mar 2020 15:49

Tgt 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

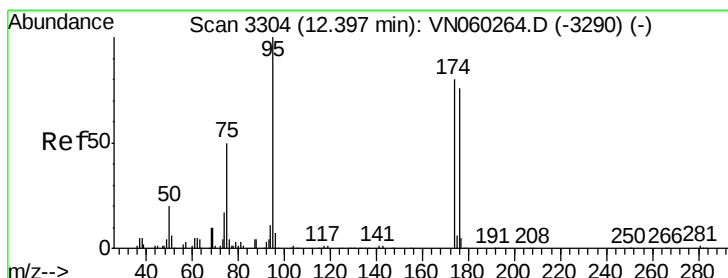
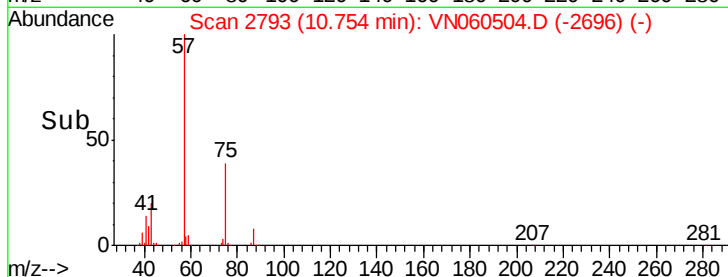
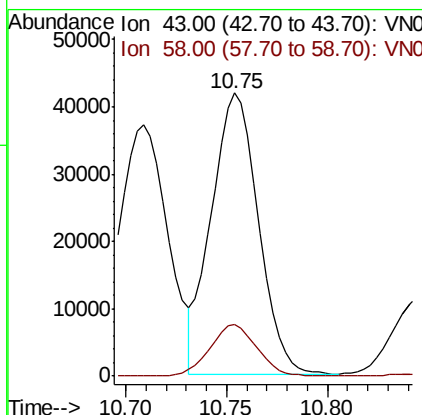
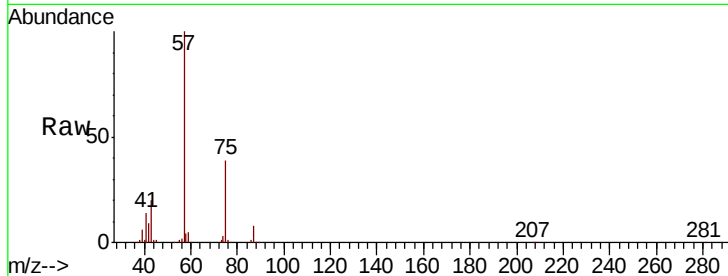




#59
2-Hexanone
Concen: 33.124 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060504.D
Acq: 13 Mar 2020 15:49

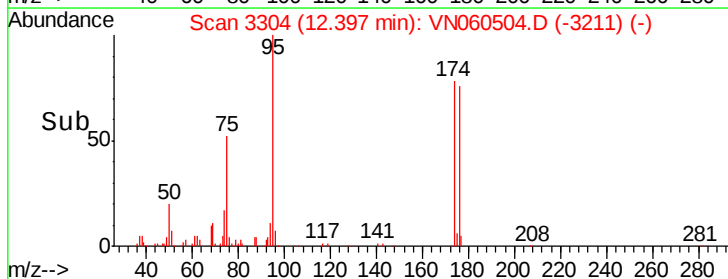
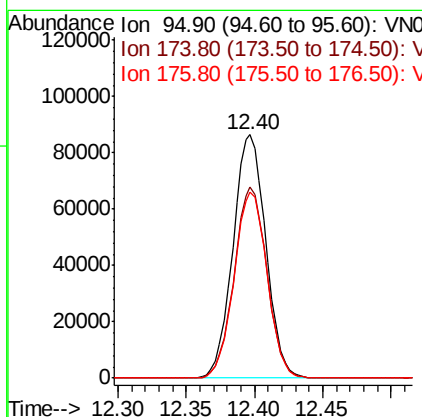
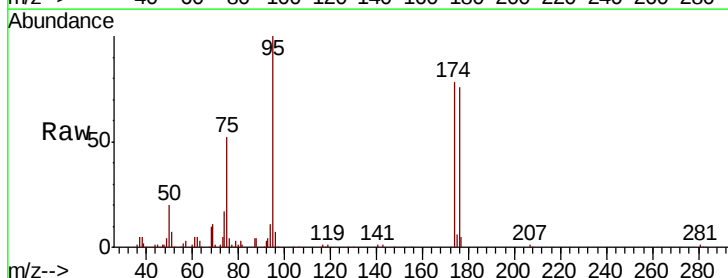
Instrument :
MSVOA_N
ClientSampleId :

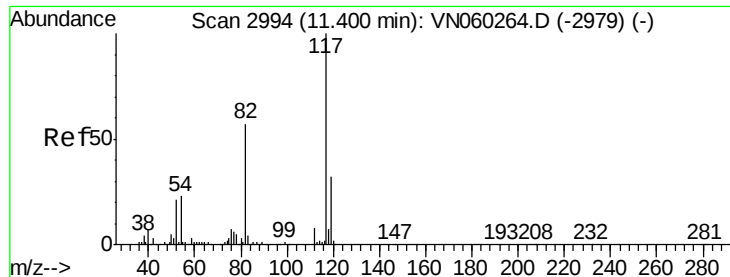
Tot Ion: 43 Resp: 67896
Ion Ratio Lower Upper
43 100
58 18.2 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.944 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060504.D
Acq: 13 Mar 2020 15:49

Tgt Ion: 95 Resp: 144171
Ion Ratio Lower Upper
95 100
174 78.3 0.0 159.2
176 76.8 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: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

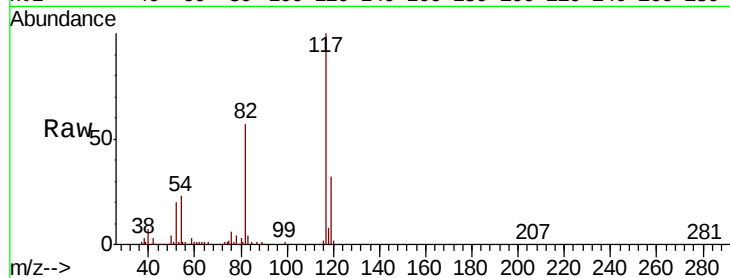
Tot Ion:117 Resp: 293478

Ion Ratio Lower Upper

117 100

82 57.4 45.8 68.6

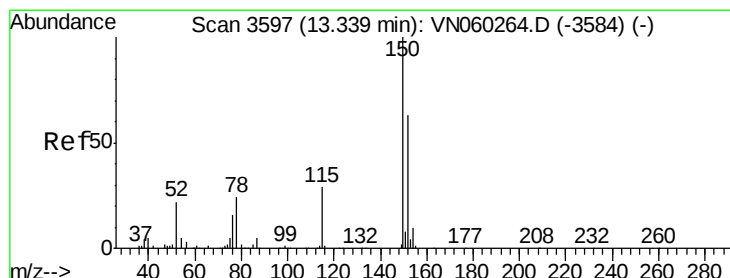
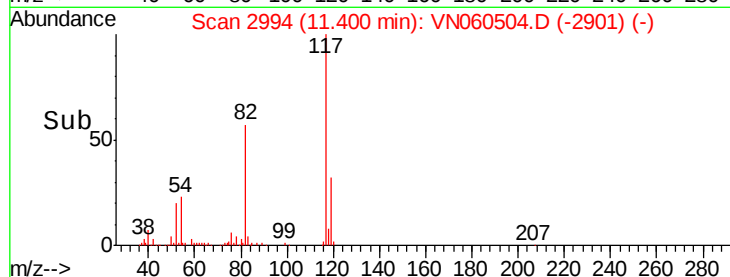
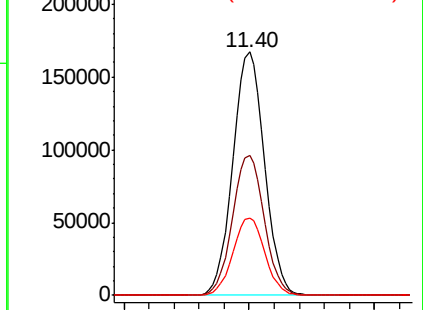
119 31.9 25.8 38.8



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: VN060504.D

Acq: 13 Mar 2020 15:49

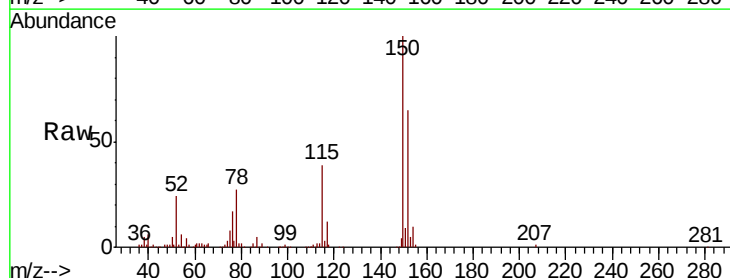
Tgt Ion:152 Resp: 136002

Ion Ratio Lower Upper

152 100

115 60.2 30.0 90.0

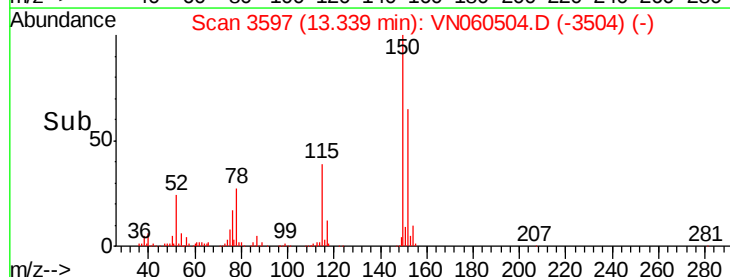
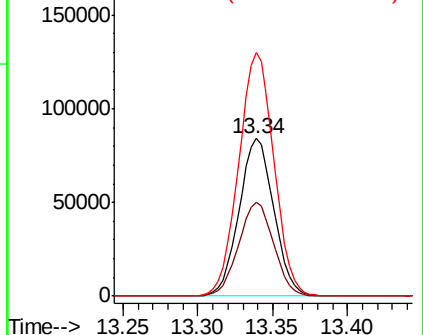
150 156.7 0.0 349.6

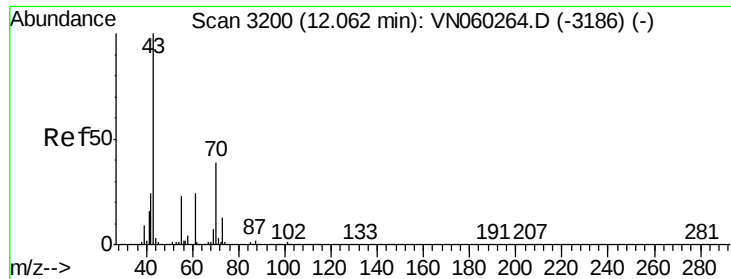


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.745 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3283

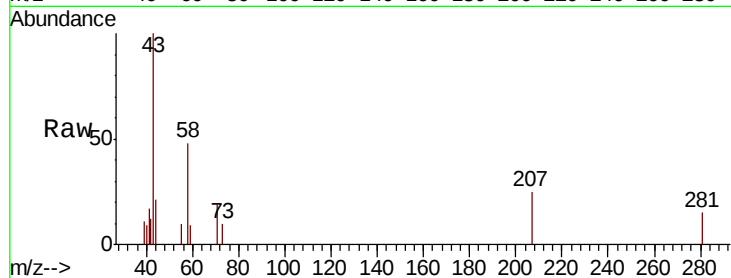
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 3.0 18.2 27.4#

61 0.0 19.2 28.8#

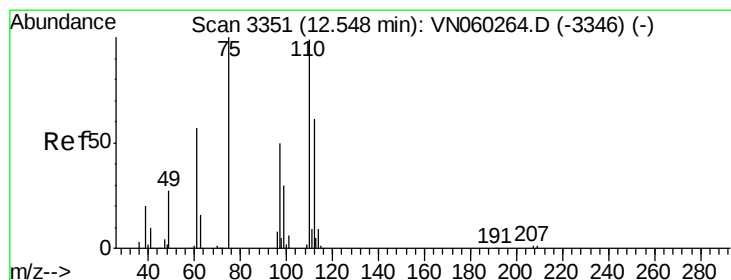
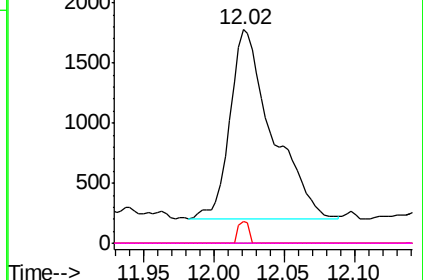
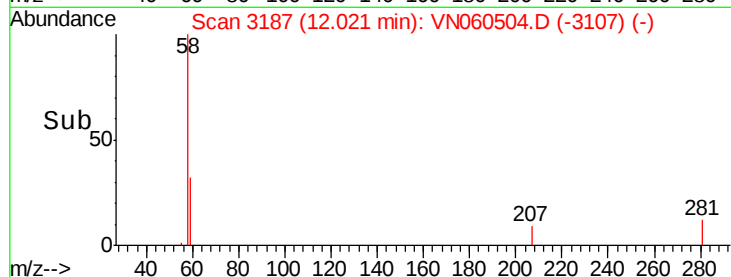


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.934 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060504.D

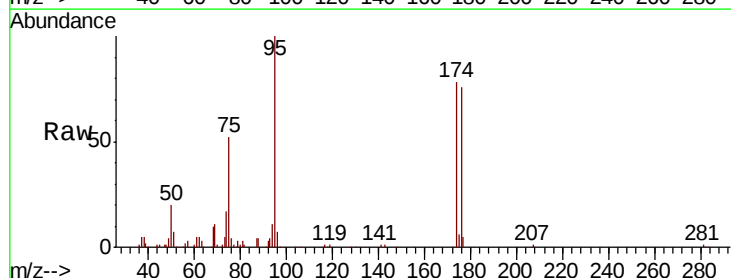
Acq: 13 Mar 2020 15:49

Tgt Ion: 75 Resp: 74401

Ion Ratio Lower Upper

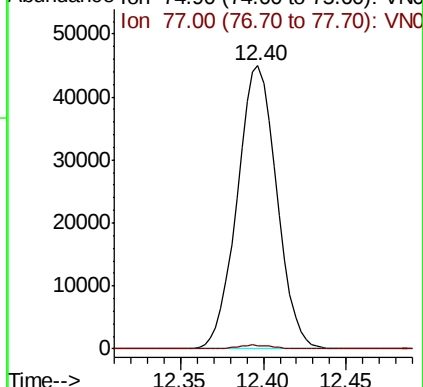
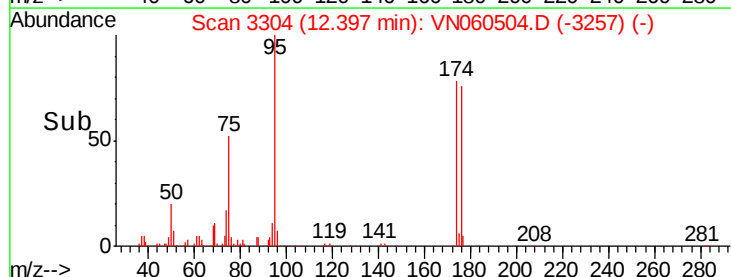
75 100

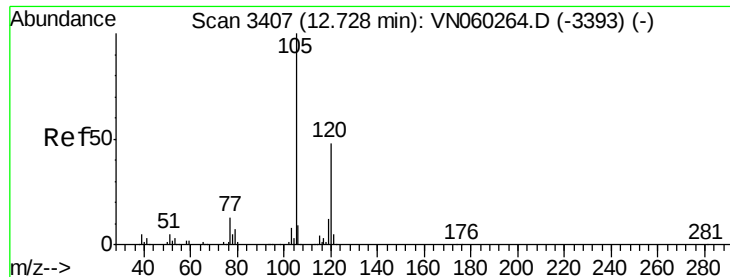
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.529 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

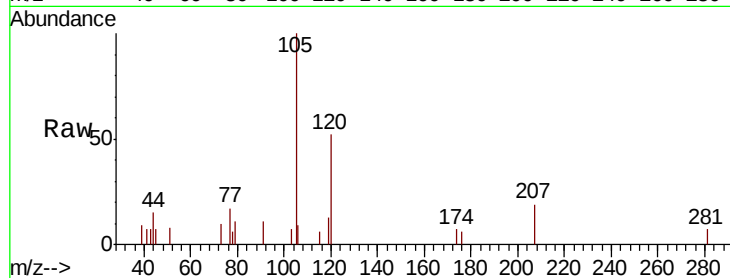
ClientSampleId :

Tot Ion: 105 Resp: 4493

Ion Ratio Lower Upper

105 100

120 46.9 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

2500

2000

1500

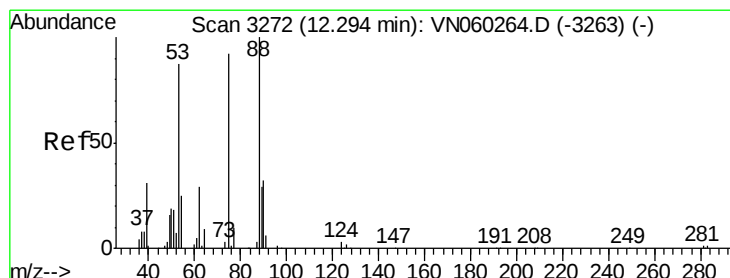
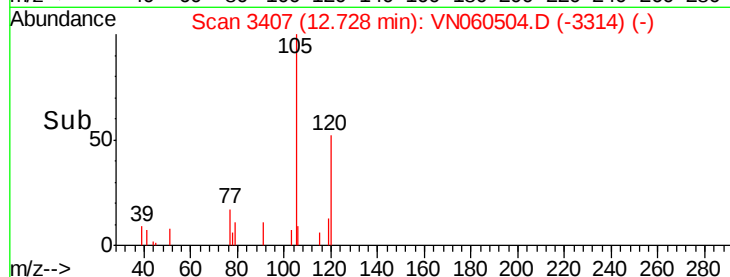
1000

500

0

12.70 12.75

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 68.830 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

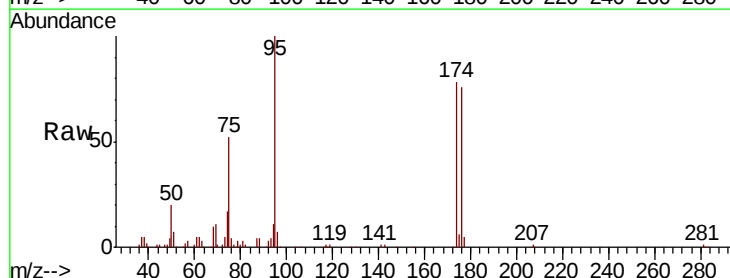
Tgt Ion: 75 Resp: 74401

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): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V

12.40

60000

50000

40000

30000

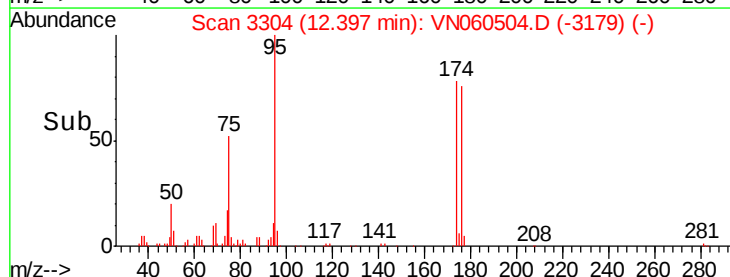
20000

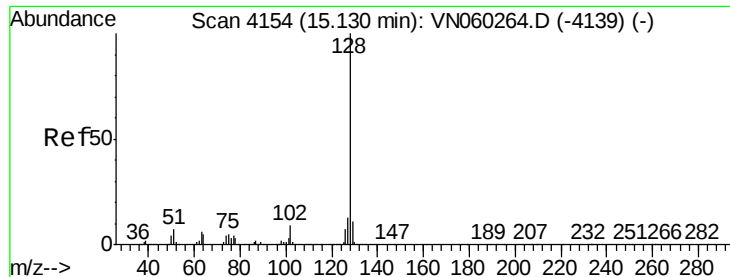
10000

0

12.35 12.40 12.45

Time-->





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060504.D

Acq: 13 Mar 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

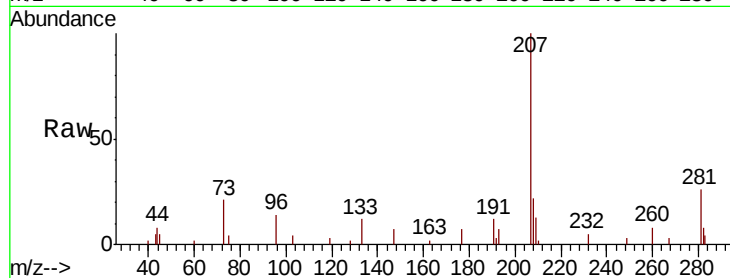
Tot Ion:128 Resp: 90

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

