

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060500.D
 Acq On : 13 Mar 2020 14:19
 Operator : JC/MD
 Sample : PB127506ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:28:50 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	200591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	330920	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307302	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143837	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	130835	50.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.68%	
35) Dibromofluoromethane	7.57	113	97253	63.31	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	126.62%	
50) Toluene-d8	10.08	98	408476	52.54	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.08%	
62) 4-Bromofluorobenzene	12.40	95	151630	51.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6639	7.988	ug/l	98
18) Methyl Acetate	4.30	43	1818	0.655	ug/l #	70
20) Methylene Chloride	4.52	84	3809	1.669	ug/l	91
25) 2-Butanone	6.80	43	639	0.476	ug/l #	49
29) Tetrahydrofuran	7.19	42	191	0.205	ug/l #	33
31) Cyclohexane	7.64	56	4353	Below Cal	#	9
36) 1,1-Dichloropropene	7.64	75	15415	4.888	ug/l #	49
37) Ethyl Acetate	6.80	43	639	0.214	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19410	6.321	ug/l #	16
43) Isopropyl Acetate	8.14	43	66988	12.813	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1214	0.506	ug/l #	44
48) Methyl methacrylate	9.16	41	3392	1.423	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5844	1.972	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	28309	7.040	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	4676	1.237	ug/l #	42
59) 2-Hexanone	10.75	43	69604	31.982	ug/l #	51
74) N-amyl acetate	12.02	43	3411	0.732	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	76961	24.387	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4793	0.534	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	76961	67.320	ug/l #	8
95) Naphthalene	15.13	128	337	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Instrument :

MSVOA_N

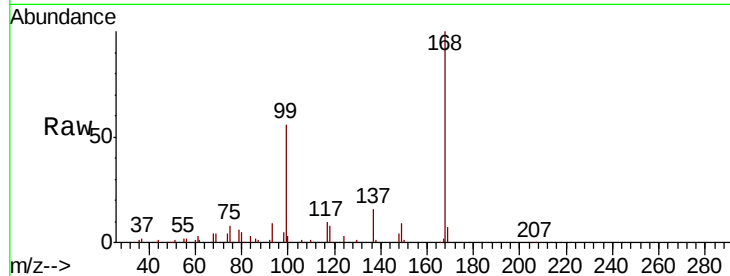
ClientSampled :

Tot Ion:168 Resp: 200591

Ion Ratio Lower Upper

168 100

99 56.3 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

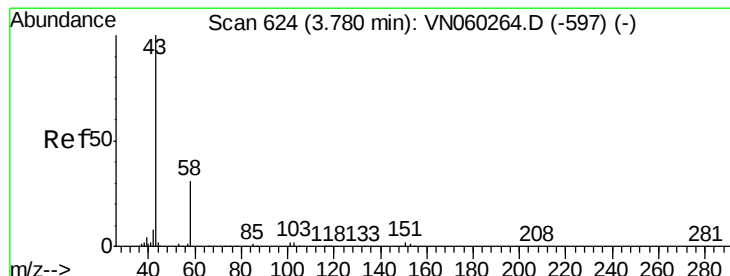
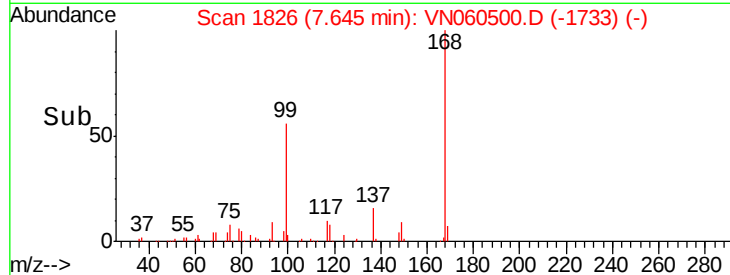
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#16

Acetone

Concen: 7.988 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060500.D

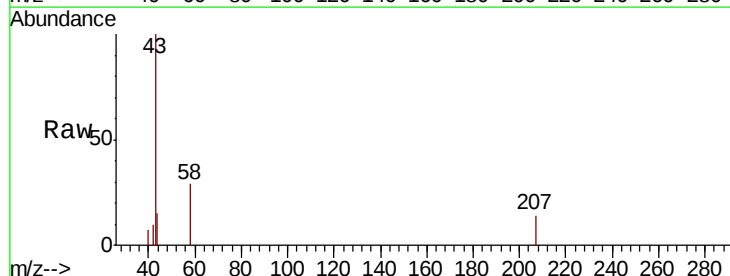
Acq: 13 Mar 2020 14:19

Tgt Ion: 43 Resp: 6639

Ion Ratio Lower Upper

43 100

58 29.5 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

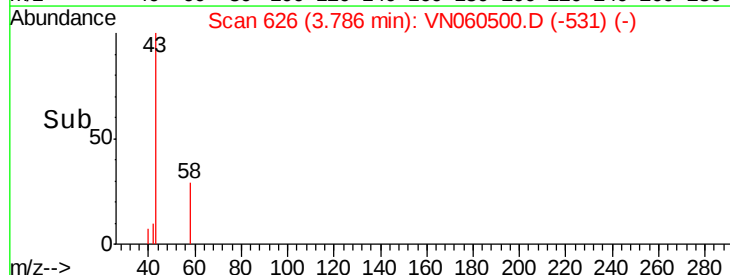
1000

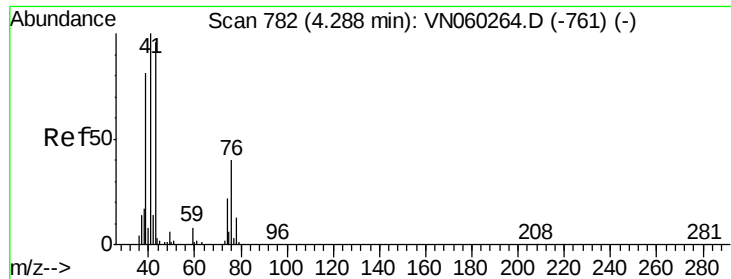
500

0

3.70 3.75 3.80 3.85 3.90

Time-->

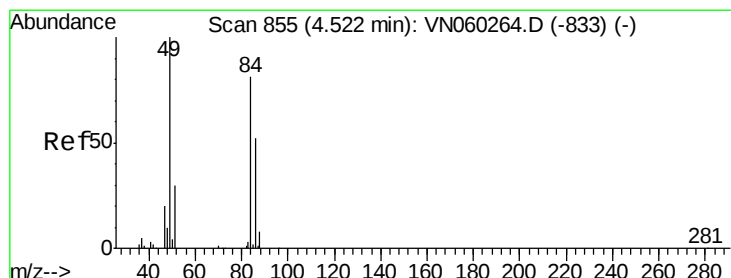
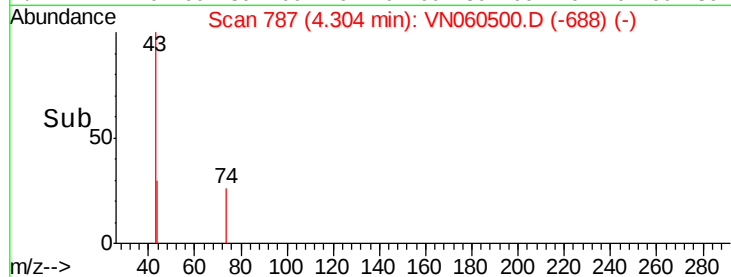
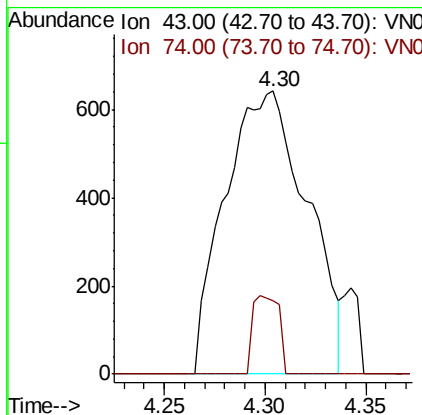
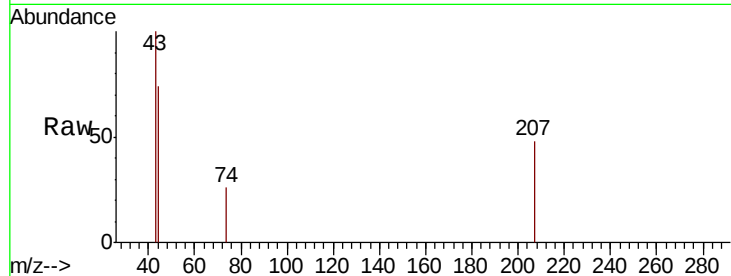




#18
Methyl Acetate
Concen: 0.655 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

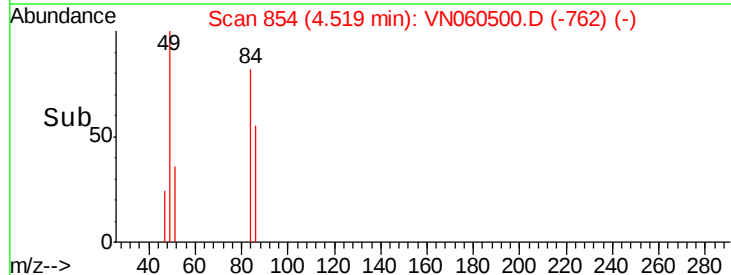
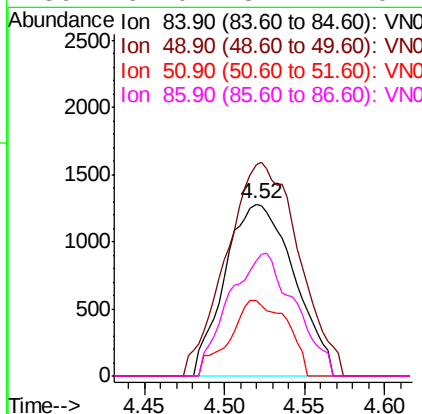
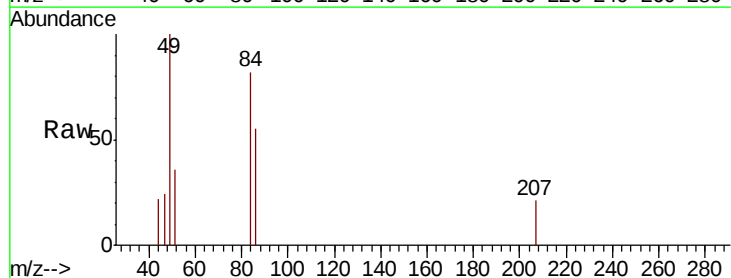
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1818
Ion Ratio Lower Upper
43 100
74 8.9 18.8 28.2#



#20
Methylene Chloride
Concen: 1.669 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Tgt Ion: 84 Resp: 3809
Ion Ratio Lower Upper
84 100
49 110.8 99.3 148.9
51 44.2 30.1 45.1
86 67.0 51.1 76.7

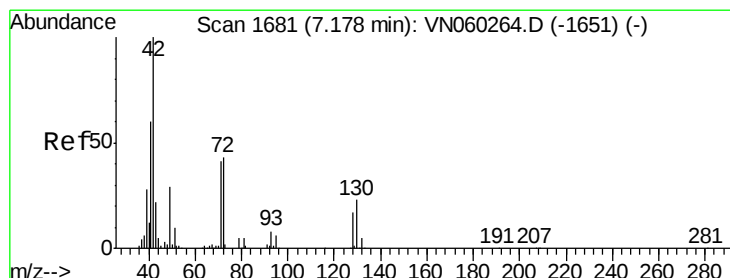
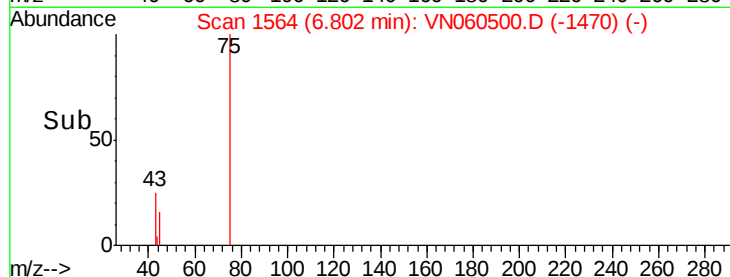
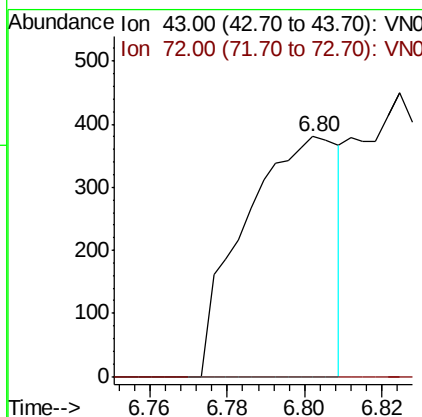
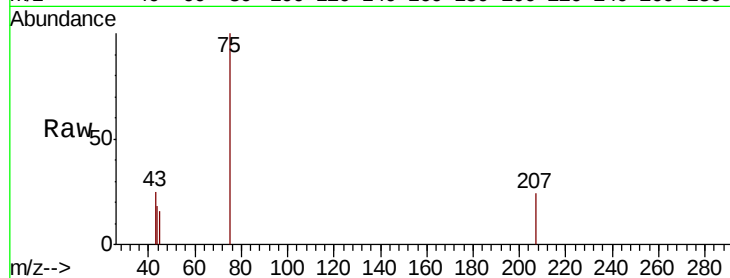




#25
2-Butanone
Concen: 0.476 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

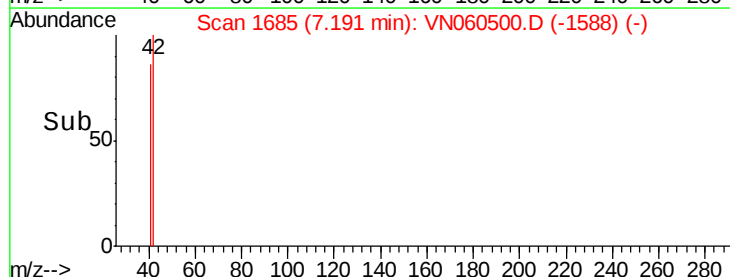
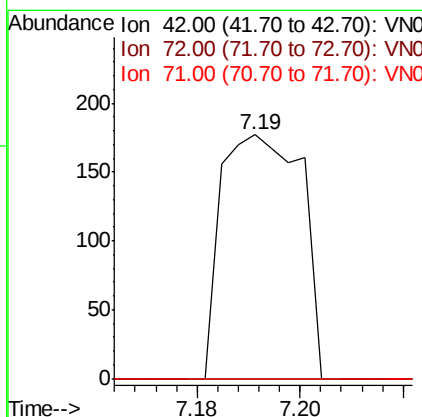
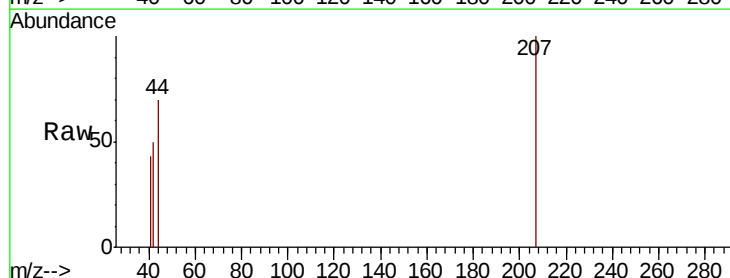
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 639
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#29
Tetrahydrofuran
Concen: 0.205 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Tgt Ion: 42 Resp: 191
Ion Ratio Lower Upper
42 100
72 0.0 34.6 52.0#
71 0.0 32.9 49.3#





#33

1,2-Dichloroethane-d4

Concen: 50.837 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Instrument :

MSVOA_N

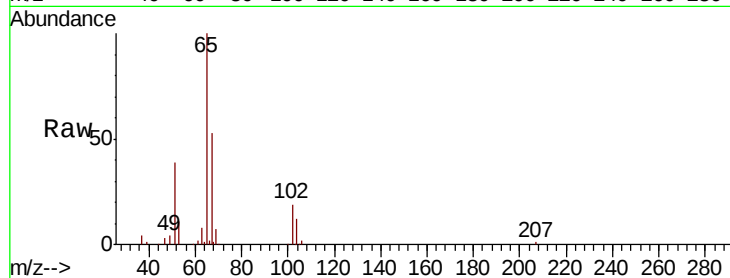
ClientSampleId :

Tot Ion: 65 Resp: 130835

Ion Ratio Lower Upper

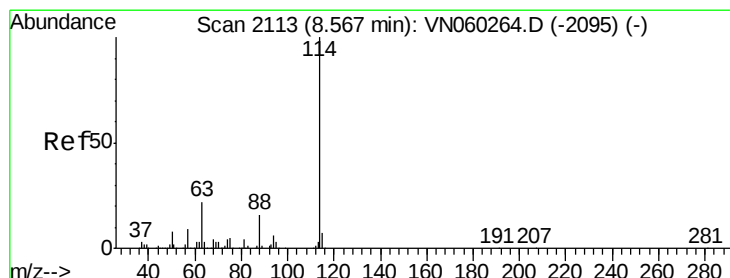
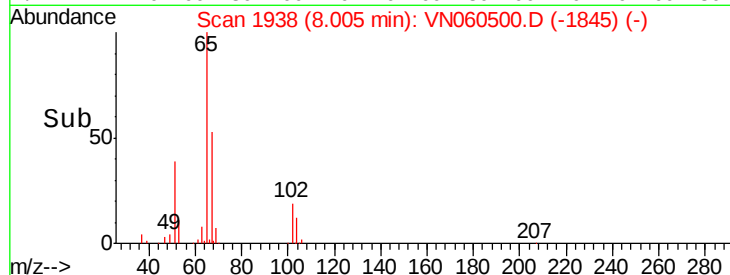
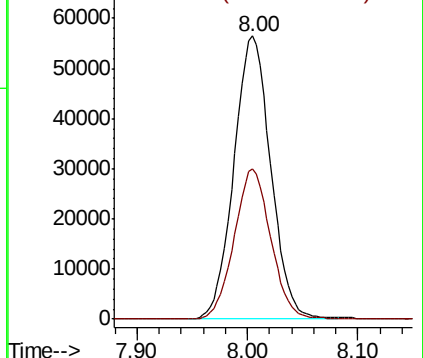
65 100

67 52.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060500.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060500.D (-1845) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

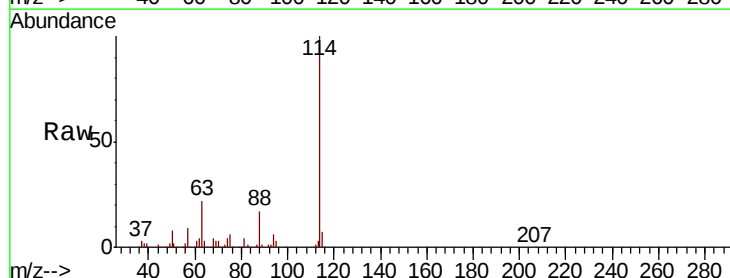
Tgt Ion: 114 Resp: 330920

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.2

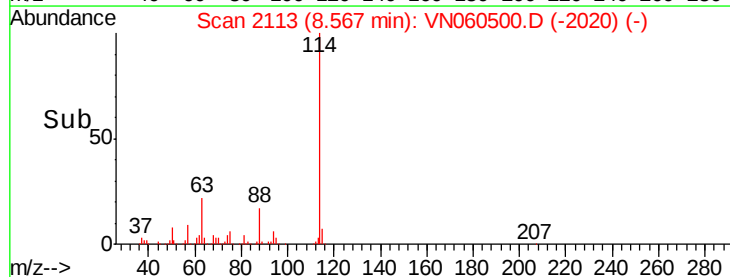
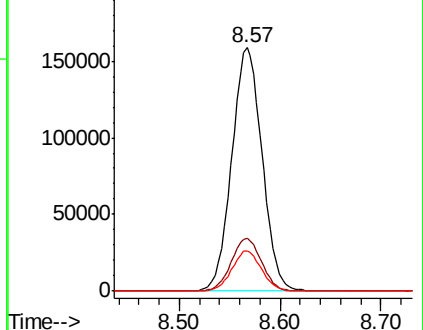
88 16.7 0.0 31.6

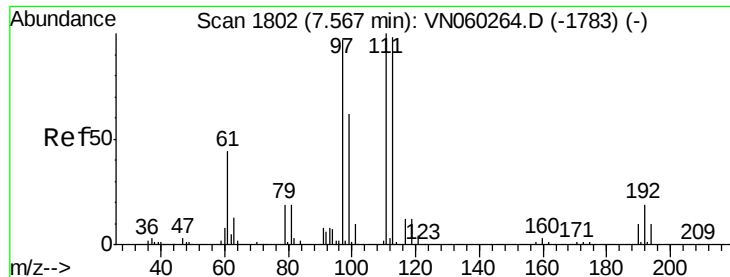


Abundance Ion 113.90 (113.60 to 114.60): VN060500.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060500.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060500.D (-2020) (-)

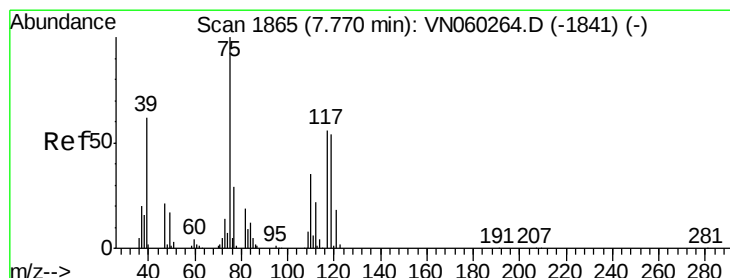
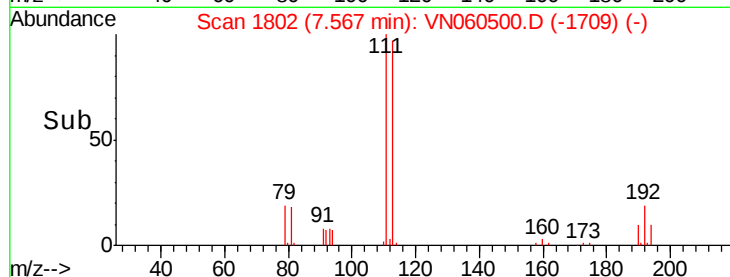
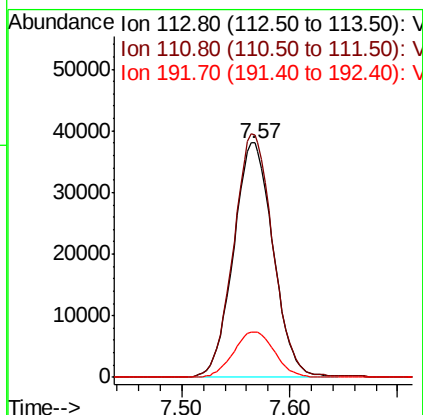
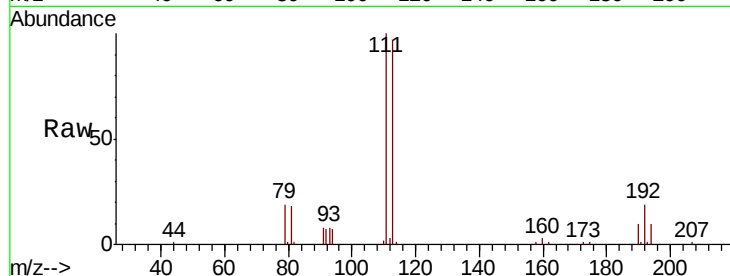




#35
 Dibromofluoromethane
 Concen: 63.315 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060500.D
 Acq: 13 Mar 2020 14:19

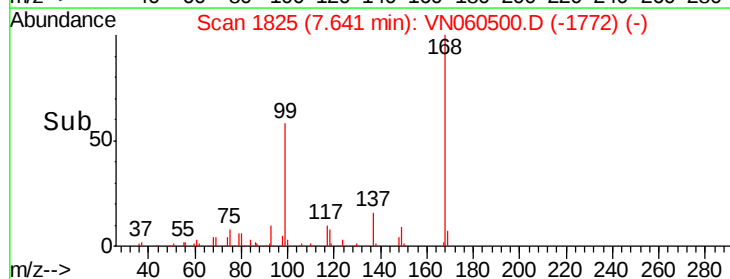
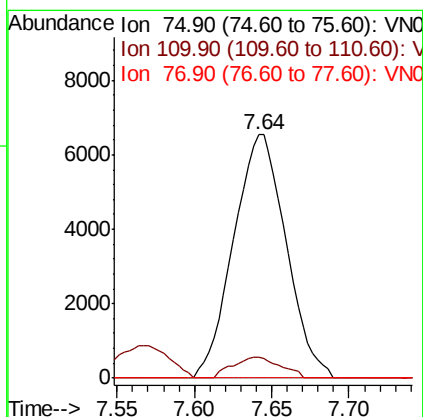
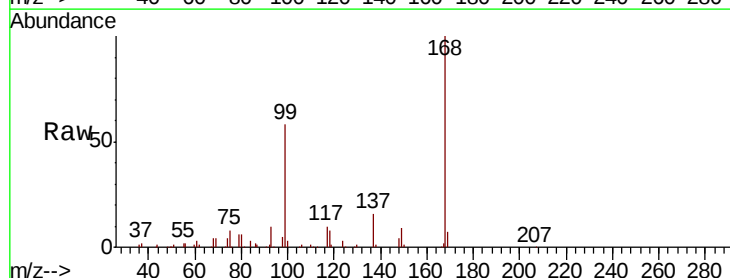
Instrument :
 MSVOA_N
 ClientSampled :

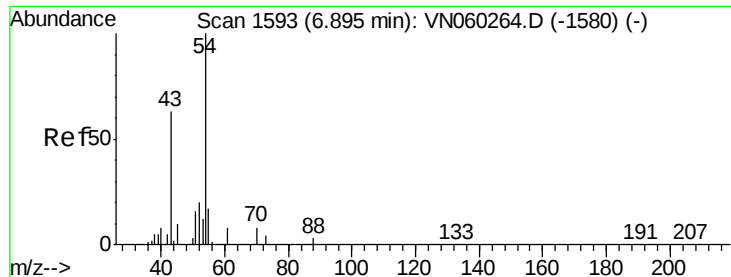
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.4	123.6
192	20.0	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.888 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060500.D
 Acq: 13 Mar 2020 14:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.3	52.0#
77	0.0	24.2	36.2#

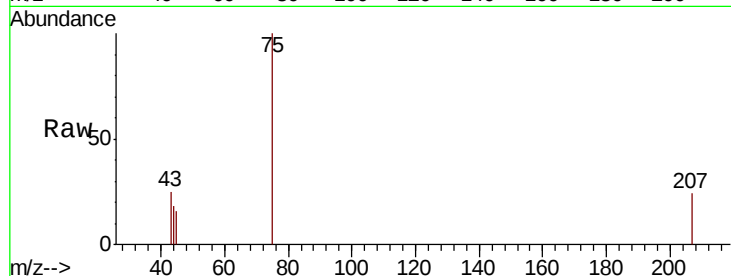




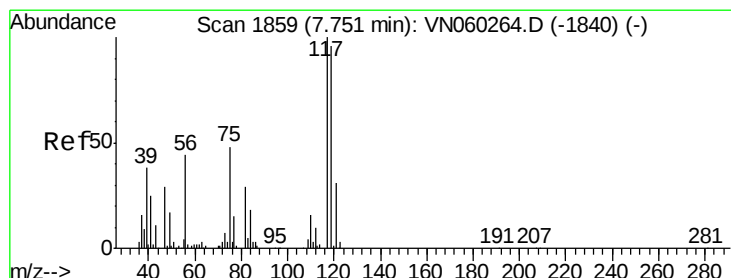
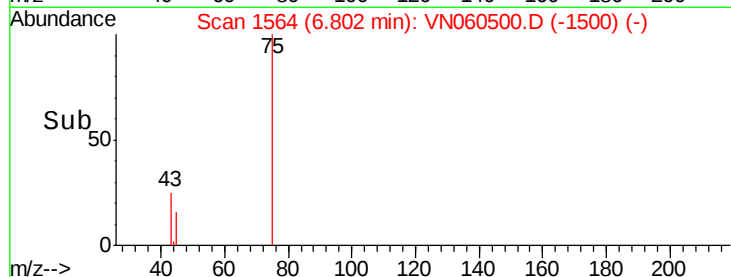
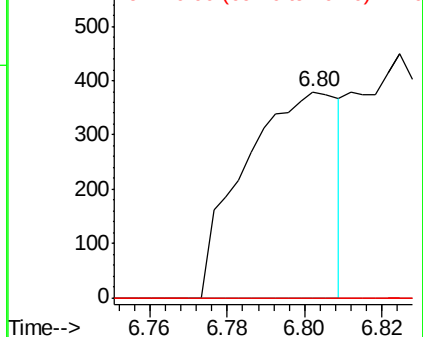
#37
Ethyl Acetate
Concen: 0.214 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 639
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#

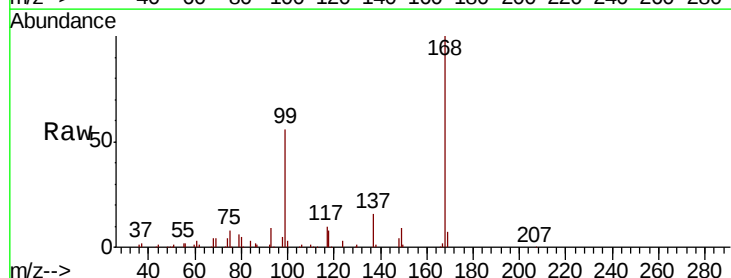


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

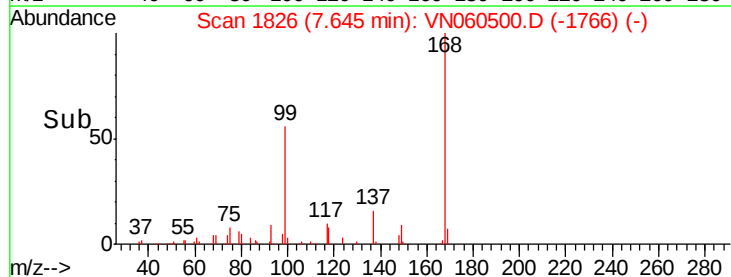
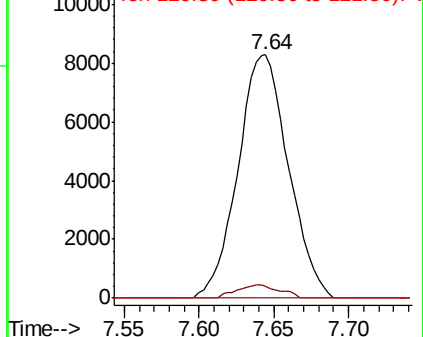


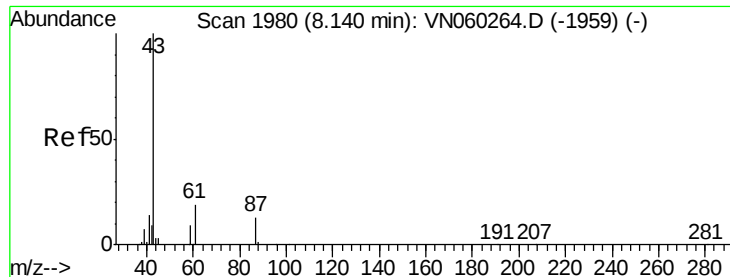
#38
Carbon Tetrachloride
Concen: 6.321 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Tgt Ion: 117 Resp: 19410
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: 12.813 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Instrument :

MSVOA_N

ClientSampleId :

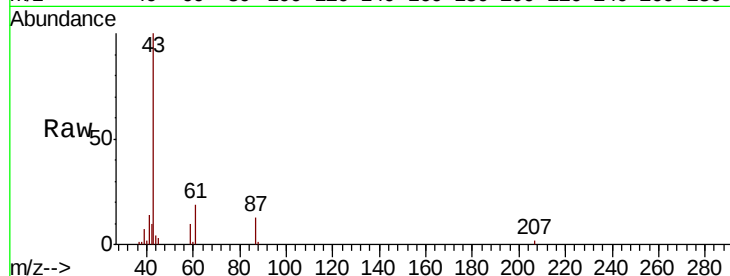
Tot Ion: 43 Resp: 66988

Ion Ratio Lower Upper

43 100

61 19.3 20.9 31.3#

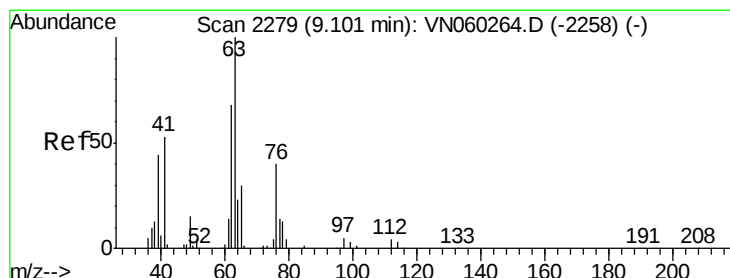
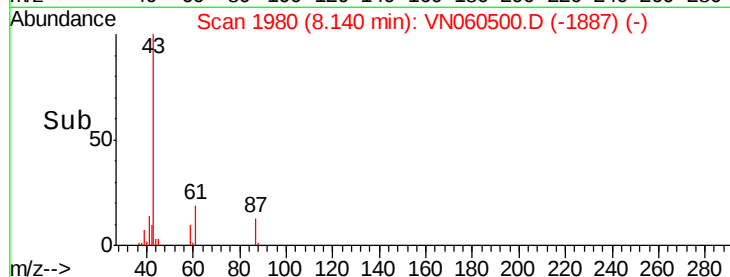
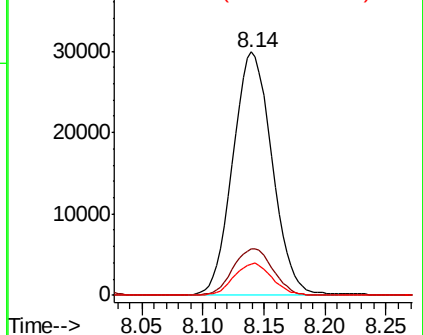
87 12.6 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060264.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.506 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060500.D

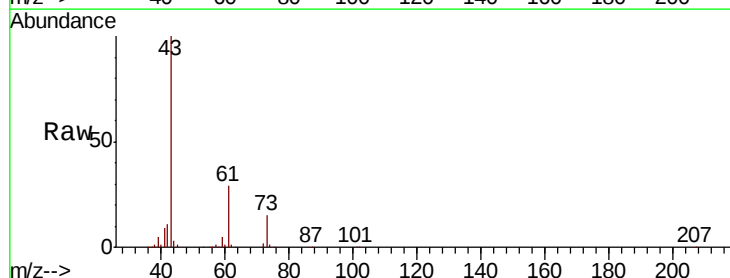
Acq: 13 Mar 2020 14:19

Tgt Ion: 63 Resp: 1214

Ion Ratio Lower Upper

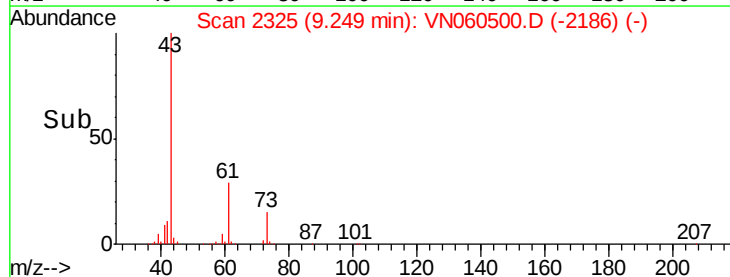
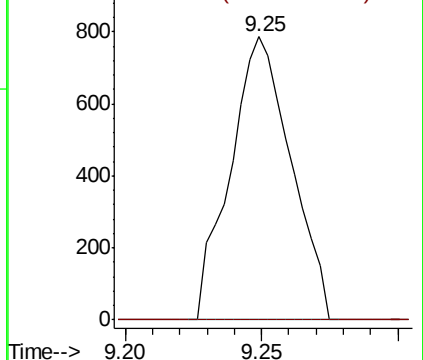
63 100

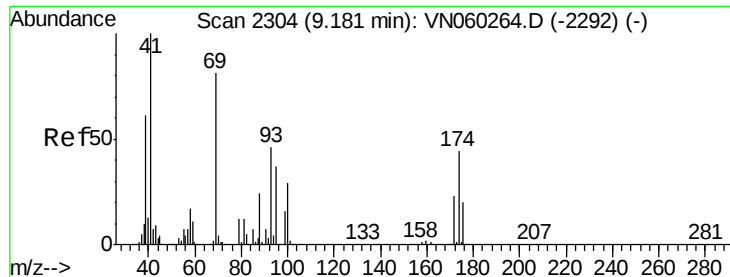
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060264.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060264.D (-2258) (-)

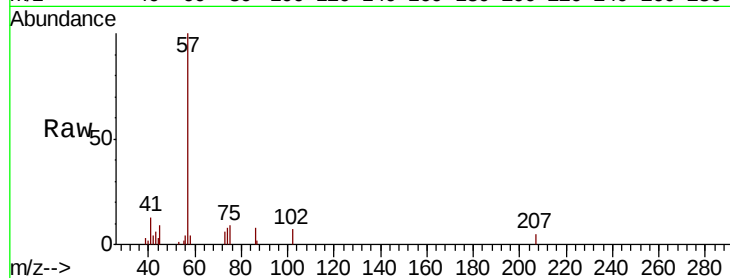




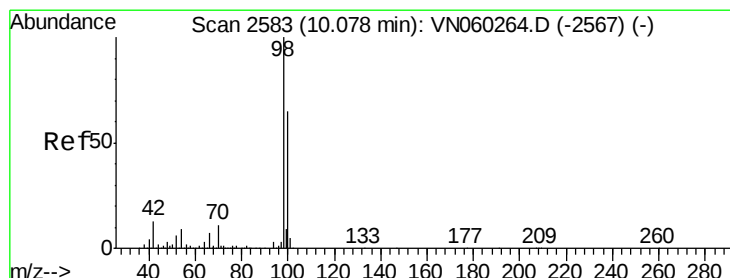
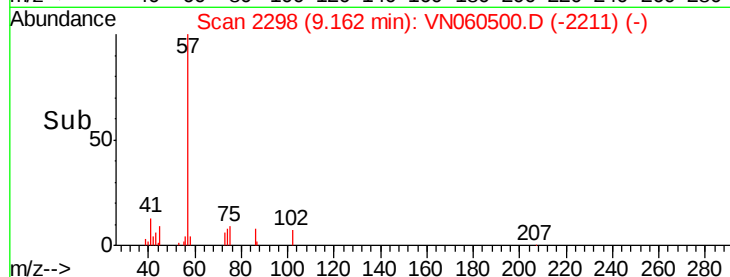
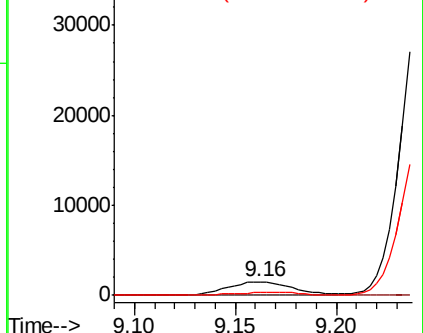
#48
Methvl methacrylate
Concen: 1.423 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3392
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

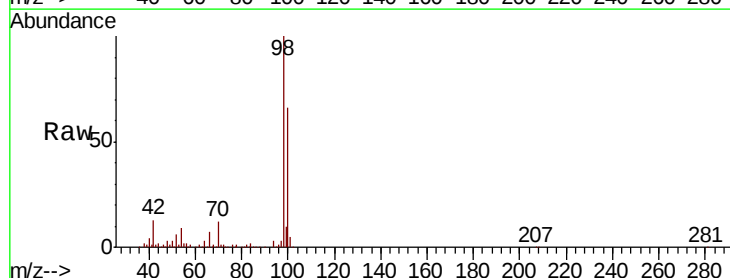


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

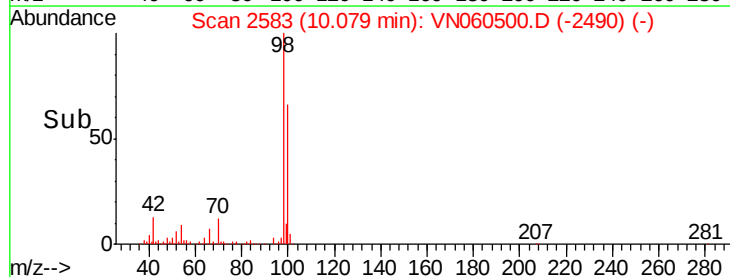
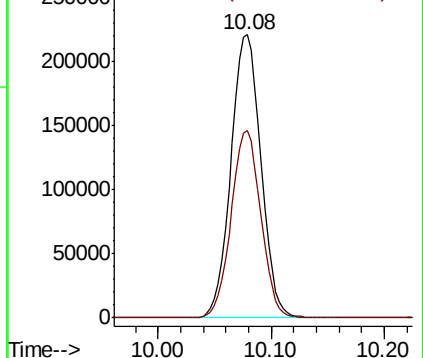


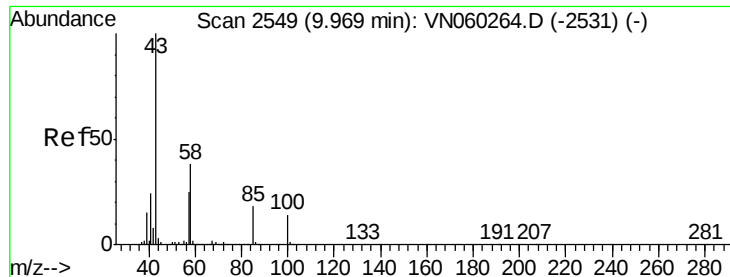
#50
Toluene-d8
Concen: 52.544 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Tgt Ion: 98 Resp: 408476
Ion Ratio Lower Upper
98 100
100 65.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VNO
Ion 100.00 (99.70 to 100.70): VNO





#51

4-Methyl-2-Pentanone

Concen: 1.972 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Instrument :

MSVOA_N

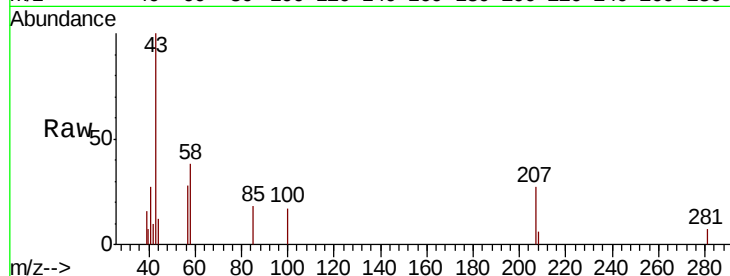
ClientSampled :

Tot Ion: 43 Resp: 5844

Ion Ratio Lower Upper

43 100

58 32.7 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) (-)

10000

8000

6000

4000

2000

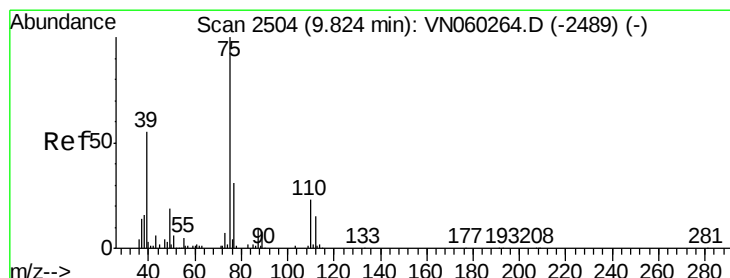
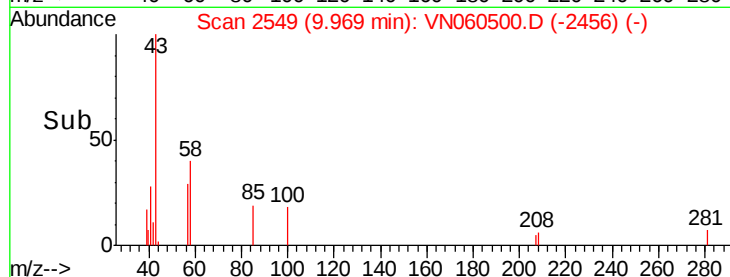
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.040 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

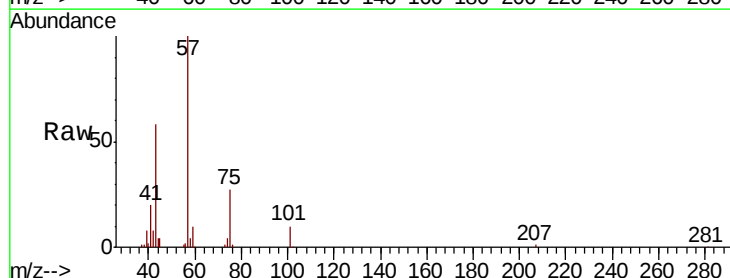
Tgt Ion: 75 Resp: 28309

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 31.1 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) (-)

20000

15000

10000

5000

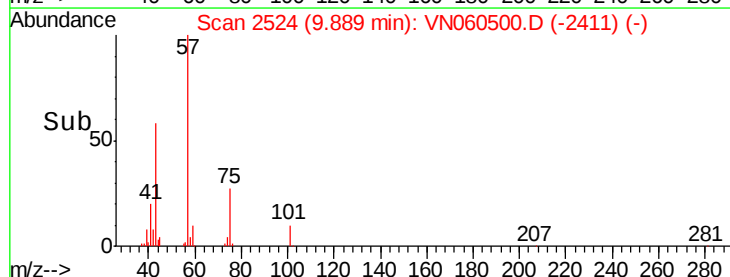
0

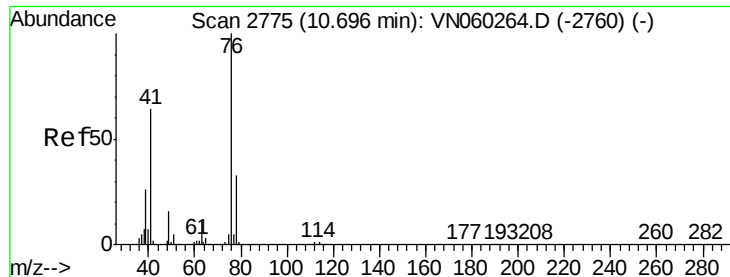
9.85

9.89

9.95

Time-->

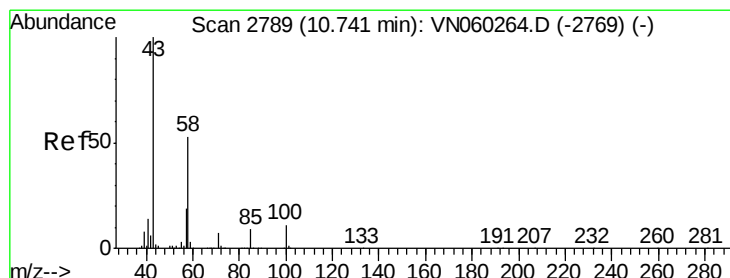
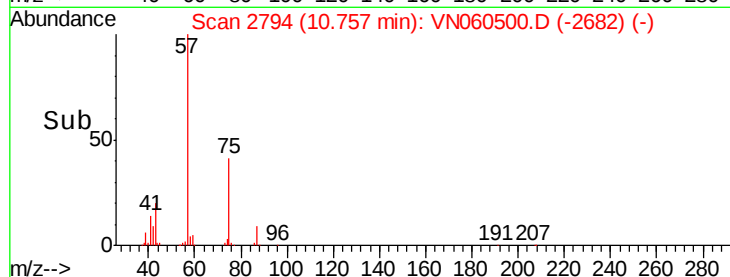
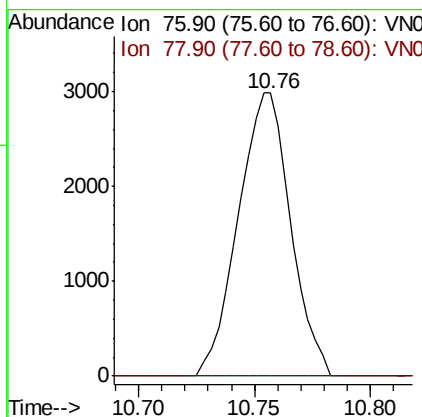
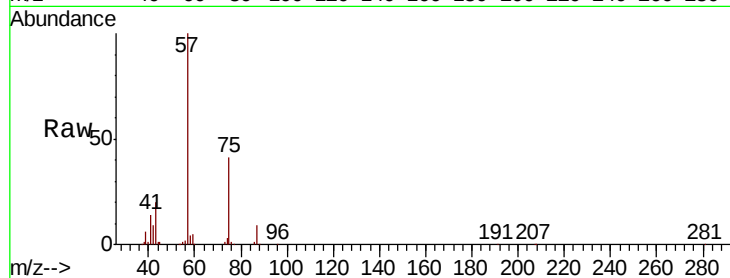




#57
 1,3-Dichloropropane
 Concen: 1.237 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN060500.D
 Acq: 13 Mar 2020 14:19

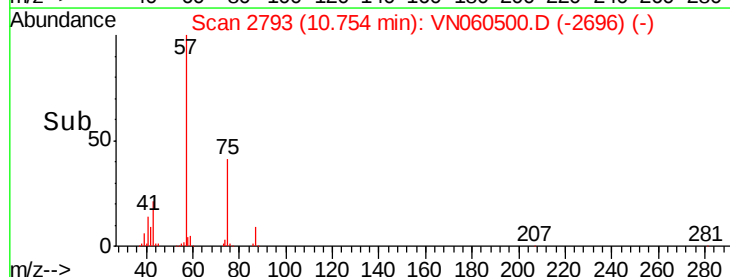
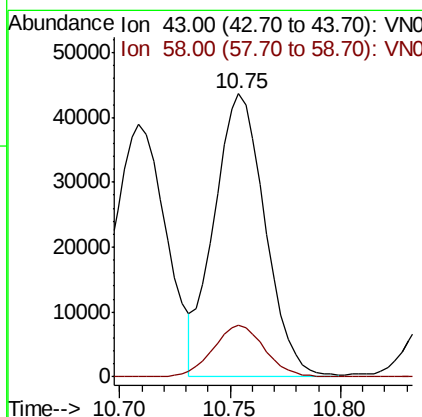
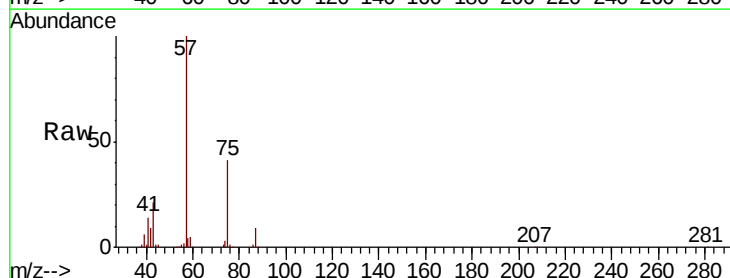
Instrument :
 MSVOA_N
 ClientSampleId :

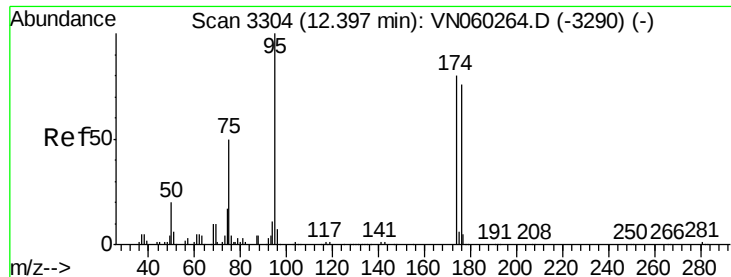
Tot Ion: 76 Resp: 4676
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 31.982 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060500.D
 Acq: 13 Mar 2020 14:19

Tgt Ion: 43 Resp: 69604
 Ion Ratio Lower Upper
 43 100
 58 18.5 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 51.453 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Instrument :

MSVOA_N

ClientSampleId :

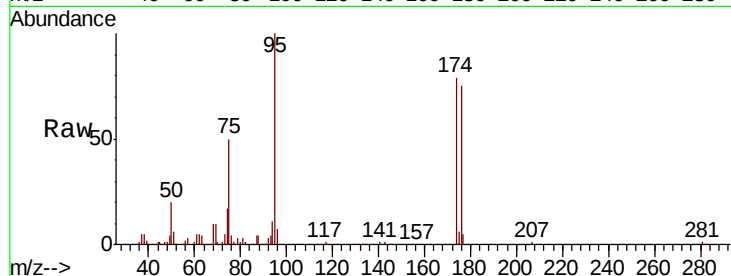
Tot Ion: 95 Resp: 151630

Ion Ratio Lower Upper

95 100

174 78.7 0.0 159.2

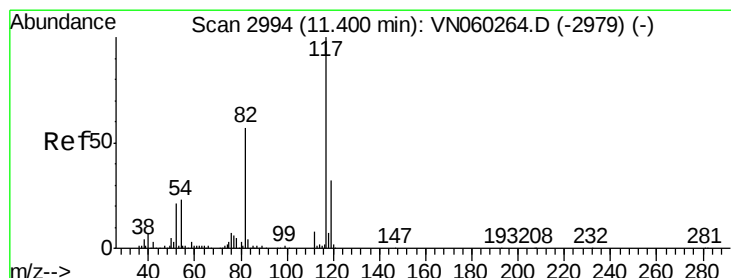
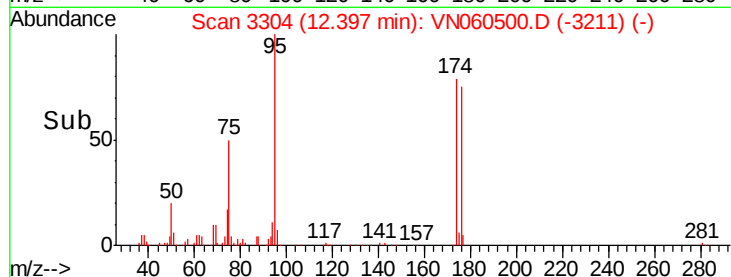
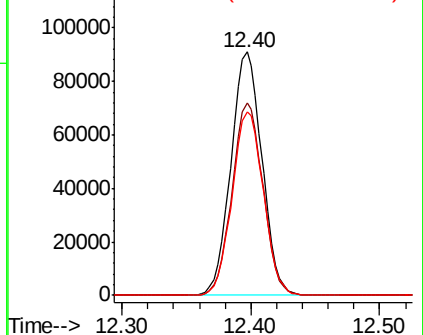
176 76.3 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060500.D (-2901) (-)

Ion 173.80 (173.50 to 174.50): VN060500.D (-2901) (-)

Ion 175.80 (175.50 to 176.50): VN060500.D (-2901) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

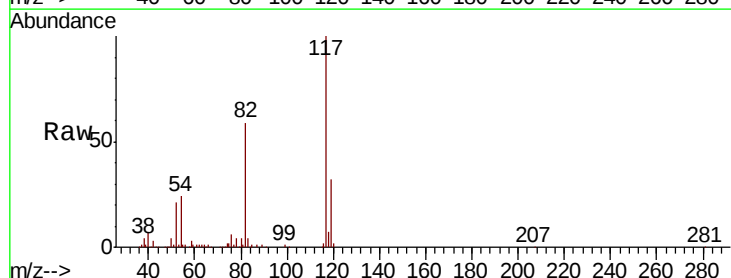
Tgt Ion: 117 Resp: 307302

Ion Ratio Lower Upper

117 100

82 58.8 45.8 68.6

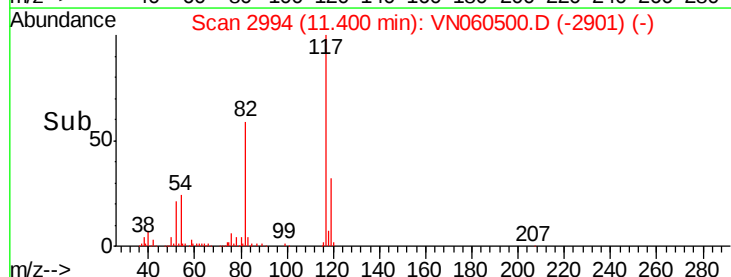
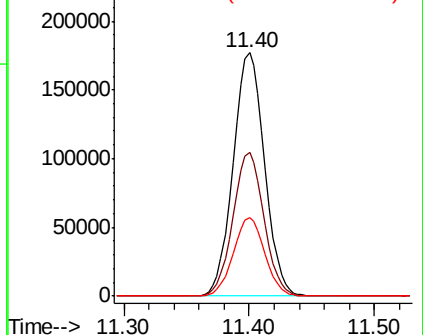
119 32.1 25.8 38.8

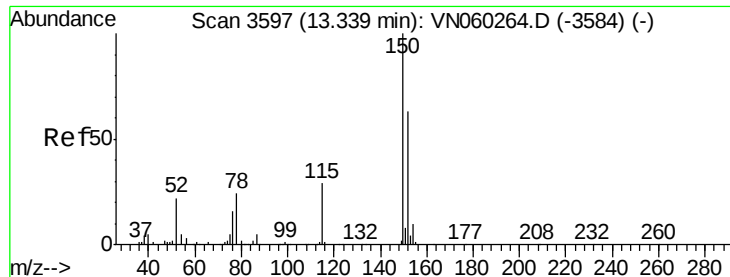


Abundance Ion 116.90 (116.60 to 117.60): VN060500.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060500.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060500.D (-2901) (-)



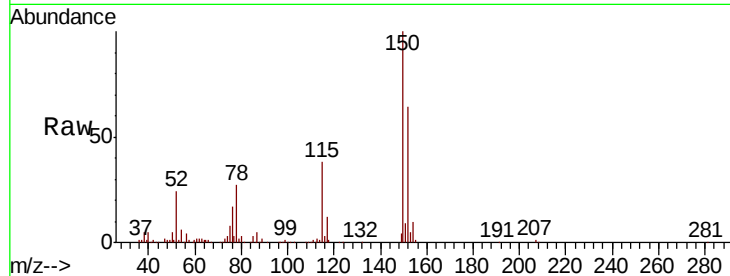


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.2	30.0	90.0
150	156.8	0.0	349.6

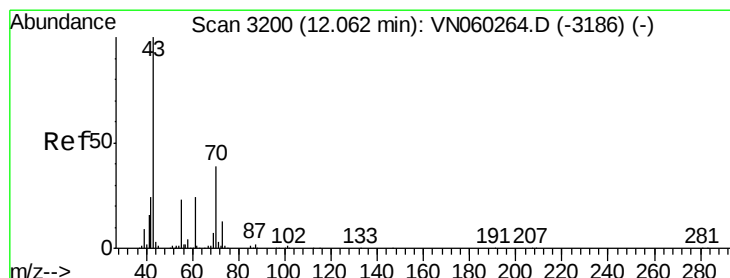
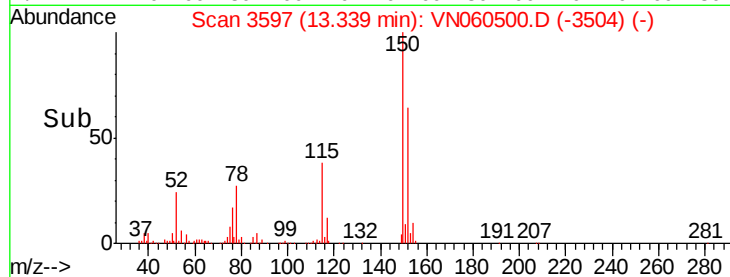
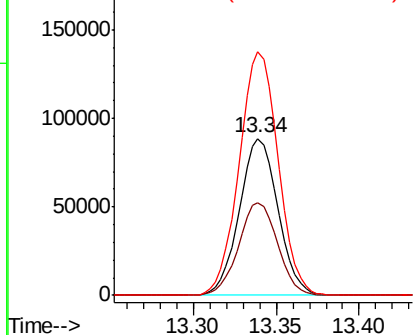


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

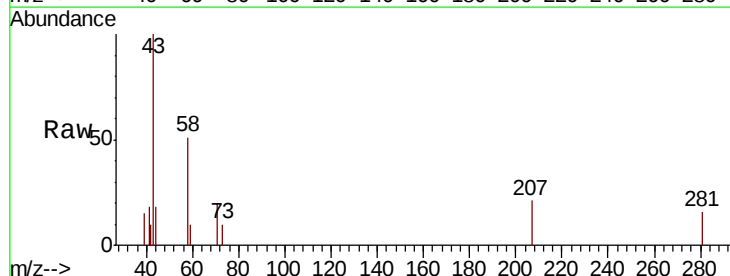
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.732 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060500.D
Acq: 13 Mar 2020 14:19

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	0.0	18.2	27.4#
61	0.0	19.2	28.8#



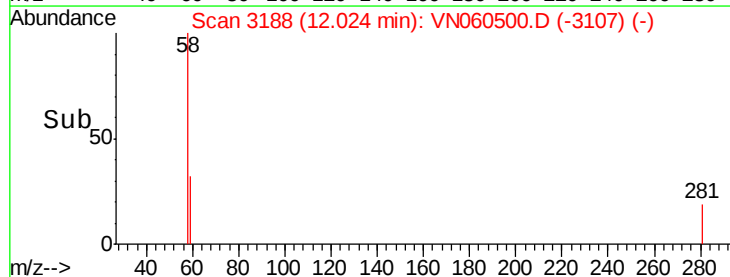
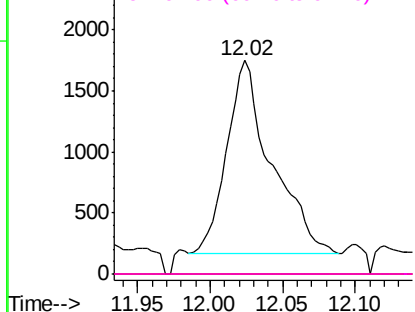
Abundance

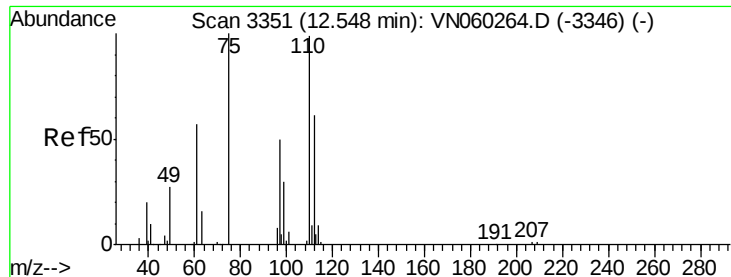
Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 24.387 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Instrument :

MSVOA_N

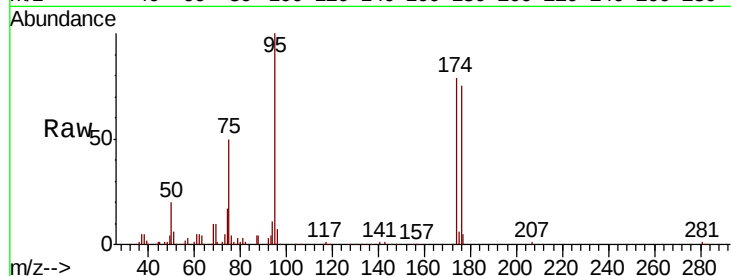
ClientSampled :

Tot Ion: 75 Resp: 76961

Ion Ratio Lower Upper

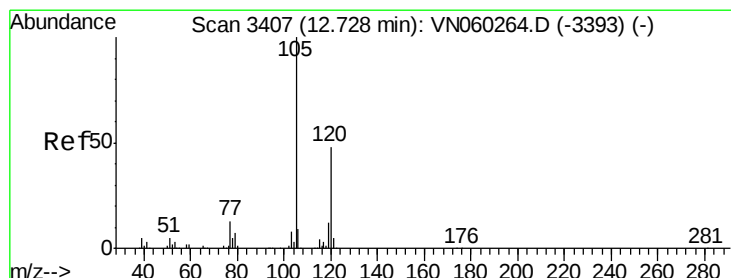
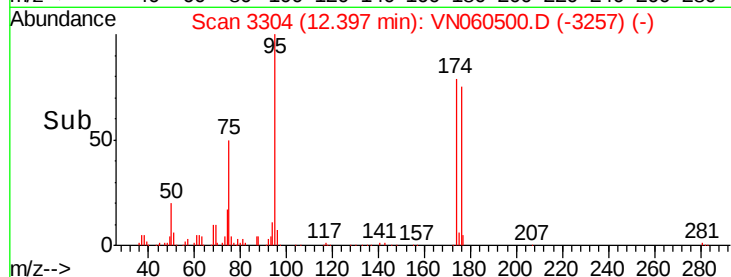
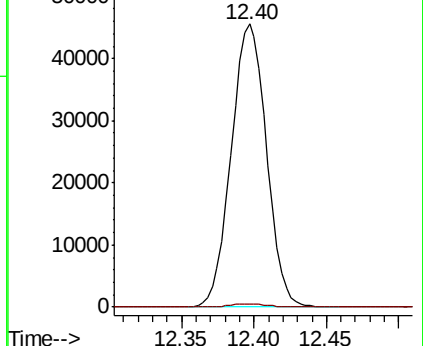
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060500.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060500.D (-3304) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.534 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060500.D

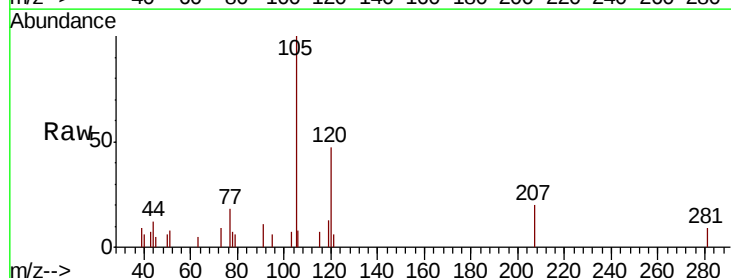
Acq: 13 Mar 2020 14:19

Tgt Ion: 105 Resp: 4793

Ion Ratio Lower Upper

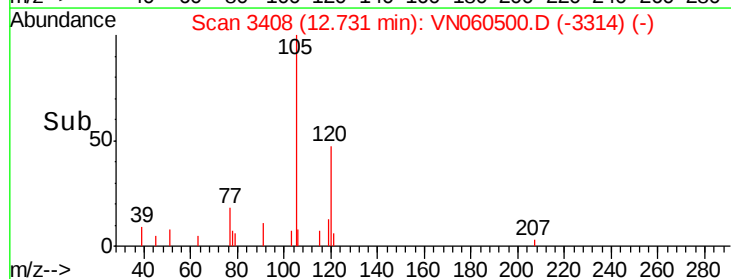
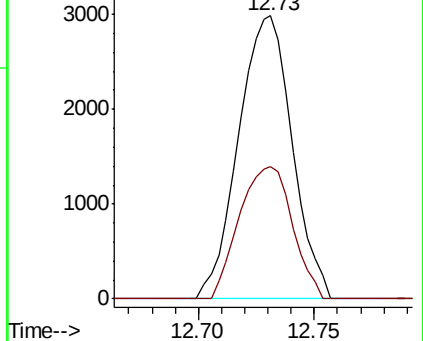
105 100

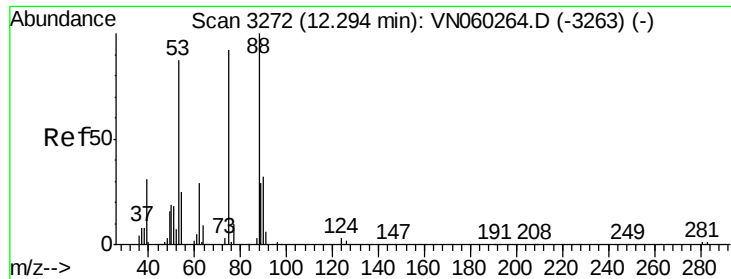
120 46.3 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060500.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN060500.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 67.320 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Instrument :

MSVOA_N

ClientSampleId :

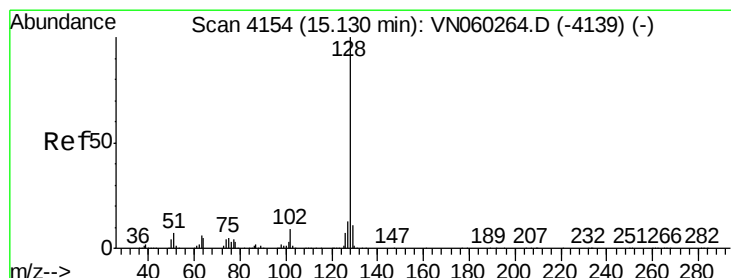
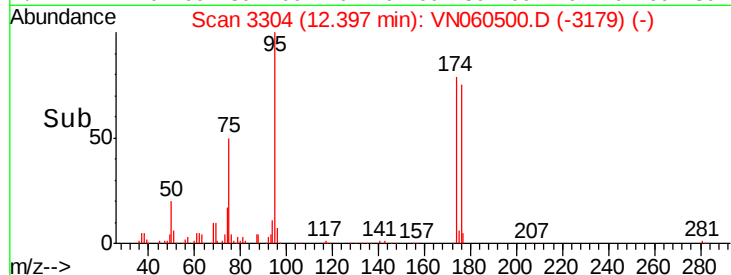
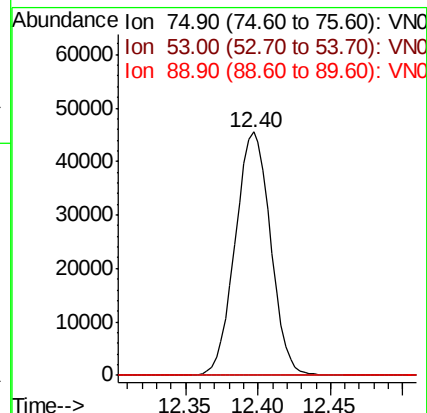
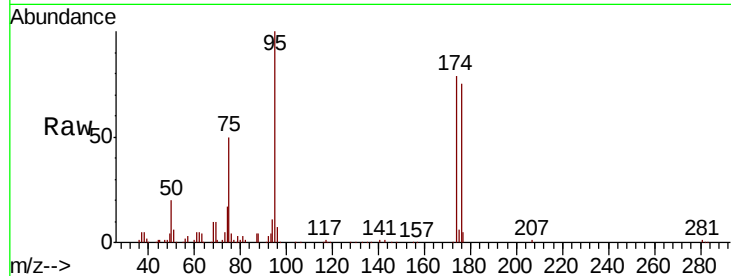
Tot Ion: 75 Resp: 76961

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060500.D

Acq: 13 Mar 2020 14:19

Tgt Ion: 128 Resp: 337

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#

