

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060501.D
 Acq On : 13 Mar 2020 14:41
 Operator : JC/MD
 Sample : PB127506ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:29:03 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	192487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	315778	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	298425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139450	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	125185	50.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.38%	
35) Dibromofluoromethane	7.56	113	94229	64.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	128.58%	
50) Toluene-d8	10.08	98	391572	52.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.56%	
62) 4-Bromofluorobenzene	12.40	95	148173	52.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.38%	

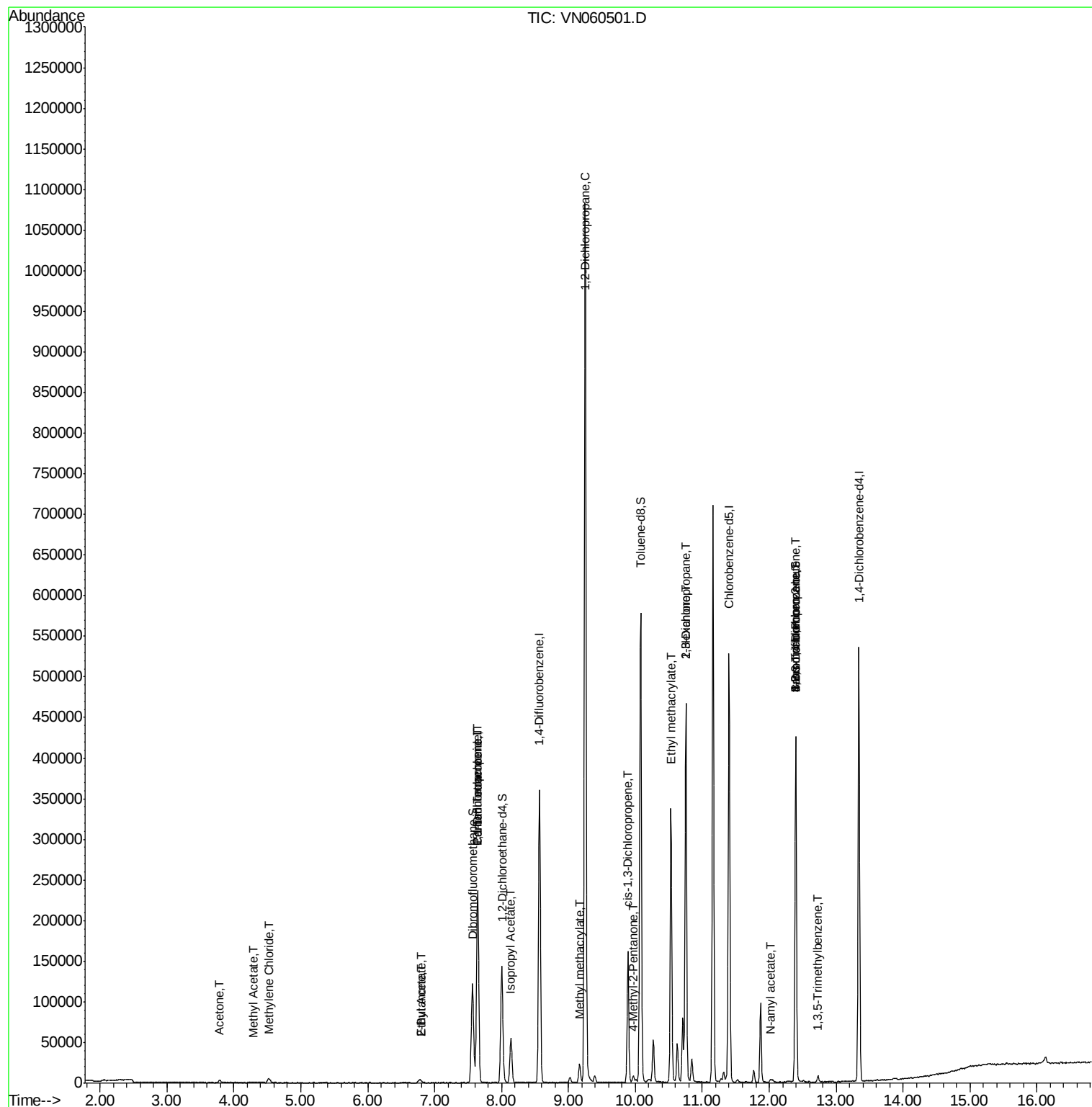
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6140	7.699	ug/l	99
18) Methyl Acetate	4.29	43	1720	0.646	ug/l #	52
20) Methylene Chloride	4.52	84	4008	1.830	ug/l	92
25) 2-Butanone	6.81	43	1109	0.861	ug/l #	49
31) Cyclohexane	7.64	56	4097	Below Cal	#	16
36) 1,1-Dichloropropene	7.64	75	15155	5.036	ug/l #	49
37) Ethyl Acetate	6.81	43	1109	0.389	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18419	6.286	ug/l #	16
43) Isopropyl Acetate	8.14	43	66582	13.346	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1189	0.519	ug/l #	44
48) Methyl methacrylate	9.16	41	3387	1.489	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4949	1.750	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	27934	7.279	ug/l #	60
56) Ethyl methacrylate	10.54	69	644	0.203	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4630	1.283	ug/l #	42
59) 2-Hexanone	10.75	43	68892	33.172	ug/l #	52
71) Bromoform	12.40	173	469	0.292	ug/l #	1
74) N-amyl acetate	12.02	43	2410	0.534	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	74898	24.480	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4730	0.544	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	74898	67.577	ug/l #	8
95) Naphthalene	15.13	128	93	Below Cal	#	69

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

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

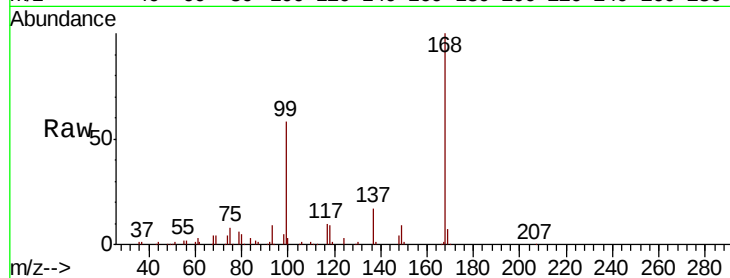
ClientSampled :

Tot Ion:168 Resp: 192487

Ion Ratio Lower Upper

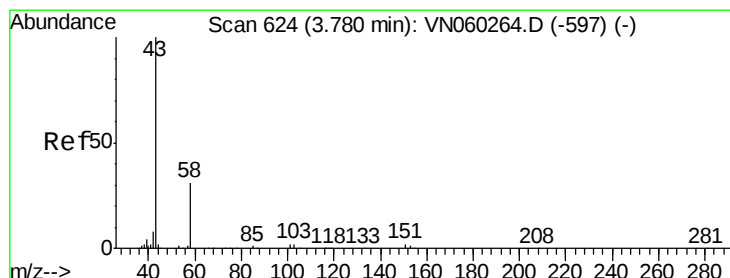
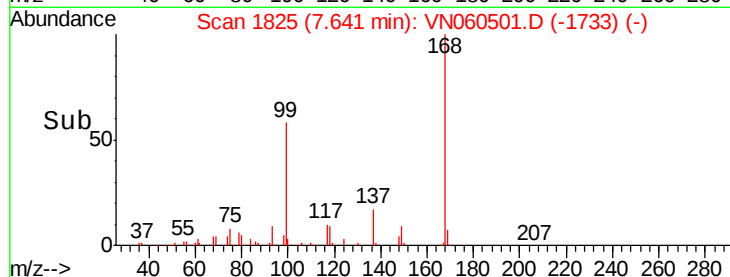
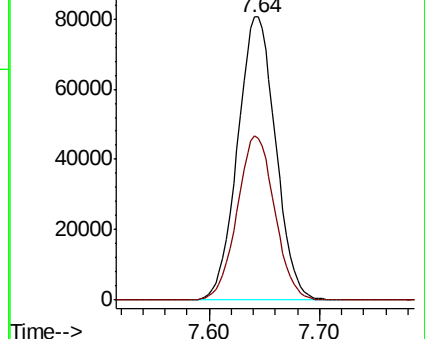
168 100

99 57.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 7.699 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060501.D

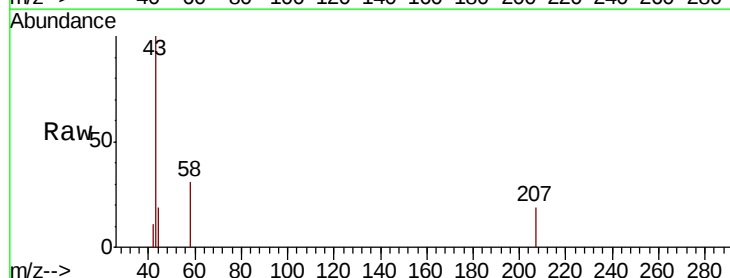
Acq: 13 Mar 2020 14:41

Tgt Ion: 43 Resp: 6140

Ion Ratio Lower Upper

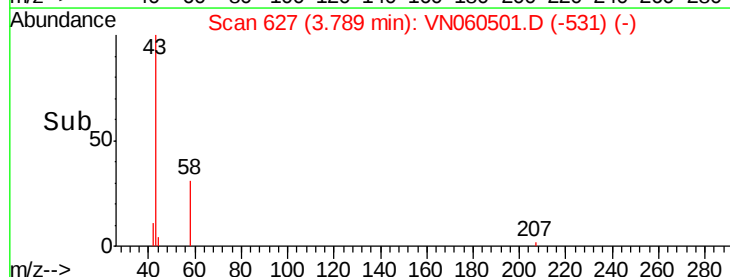
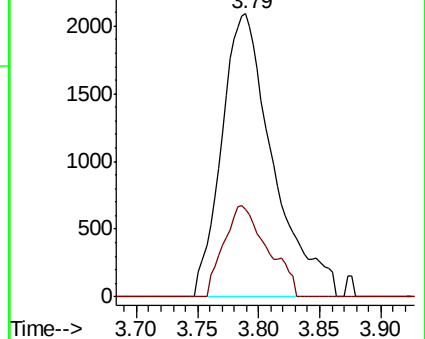
43 100

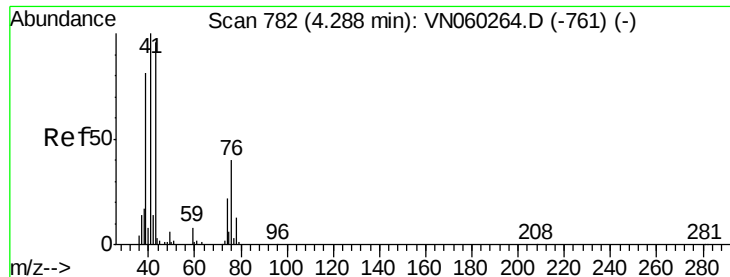
58 31.1 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

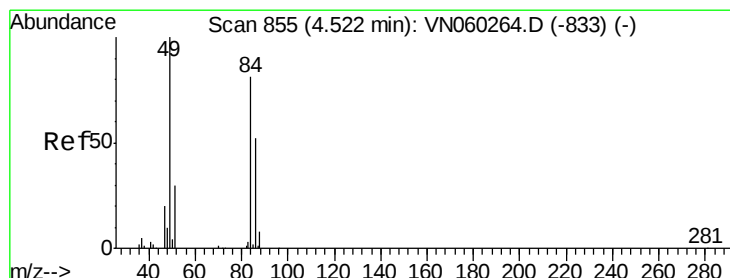
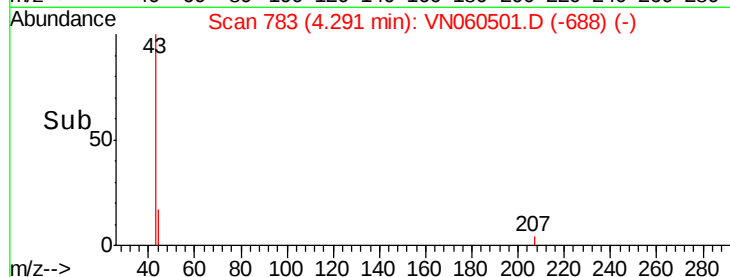
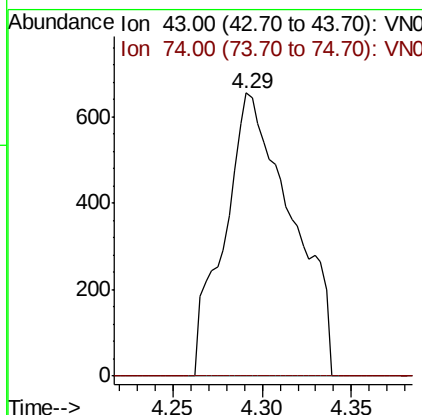
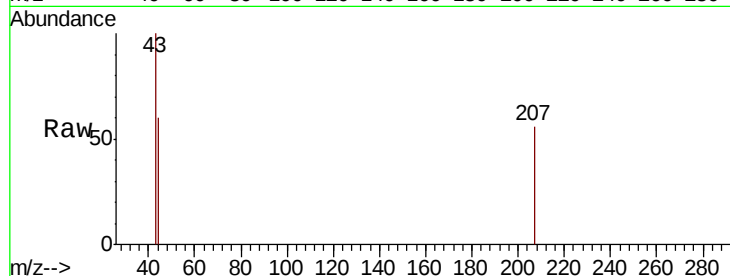




#18
Methyl Acetate
Concen: 0.646 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060501.D
Acq: 13 Mar 2020 14:41

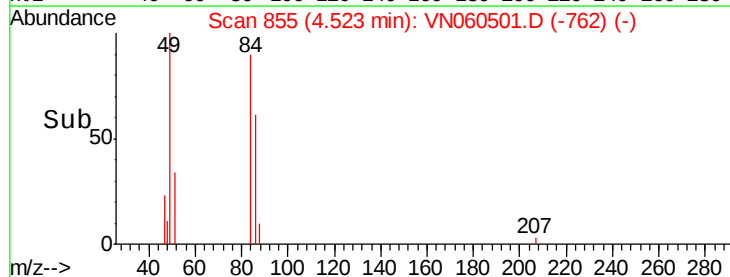
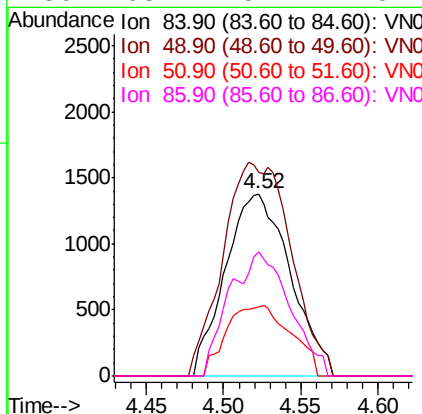
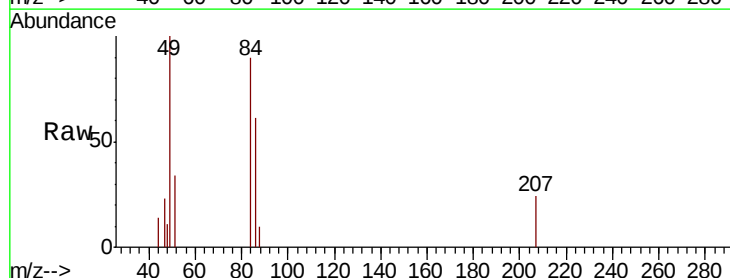
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1720
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.830 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060501.D
Acq: 13 Mar 2020 14:41

Tgt Ion: 84 Resp: 4008
Ion Ratio Lower Upper
84 100
49 111.5 99.3 148.9
51 38.2 30.1 45.1
86 68.4 51.1 76.7





#25

2-Butanone

Concen: 0.861 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

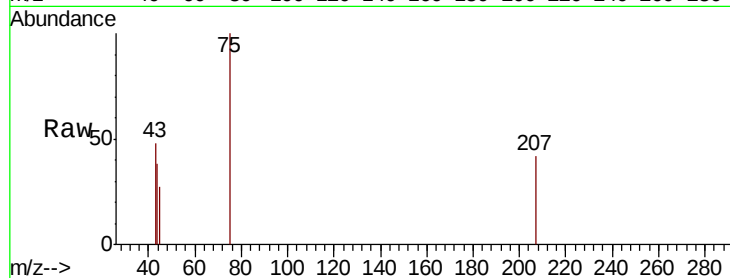
ClientSampleId :

Tot Ion: 43 Resp: 1109

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

6.81

400

300

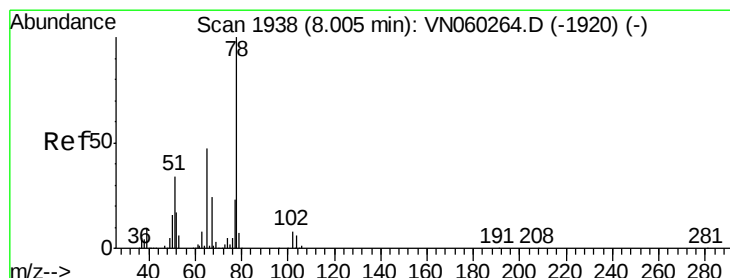
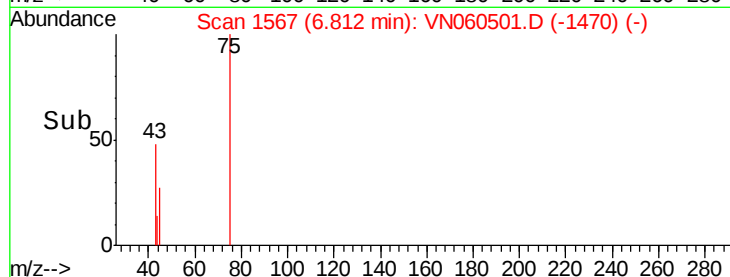
200

100

0

6.80 6.85

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.690 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060501.D

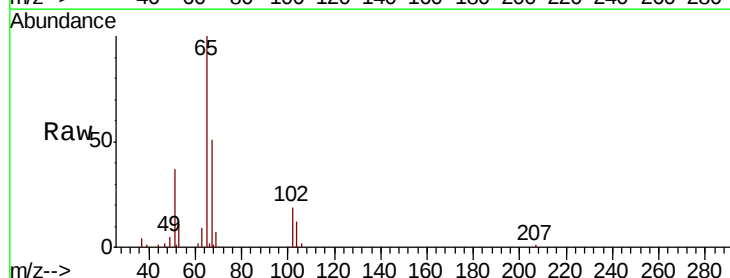
Acq: 13 Mar 2020 14:41

Tgt Ion: 65 Resp: 125185

Ion Ratio Lower Upper

65 100

67 52.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.00

60000

50000

40000

30000

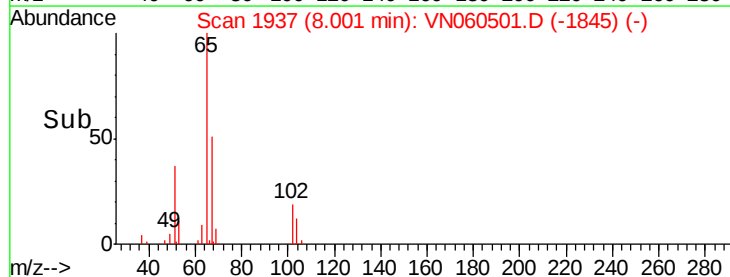
20000

10000

0

7.90 8.00 8.10

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

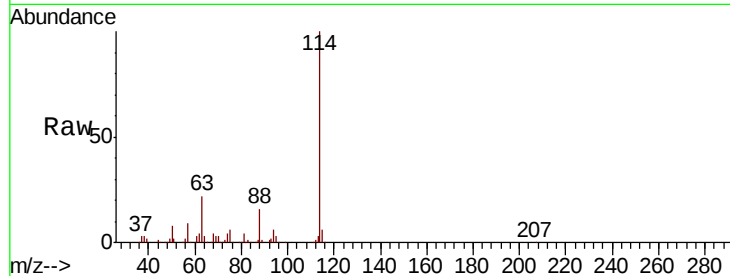
Tot Ion:114 Resp: 315778

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.2

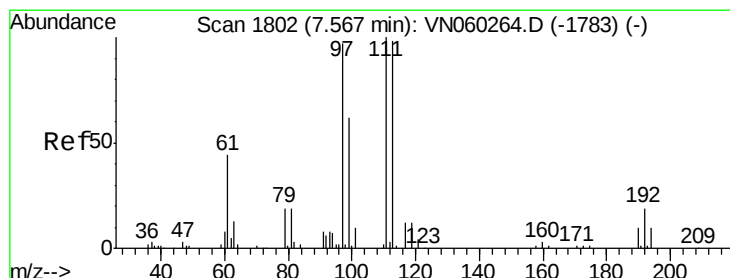
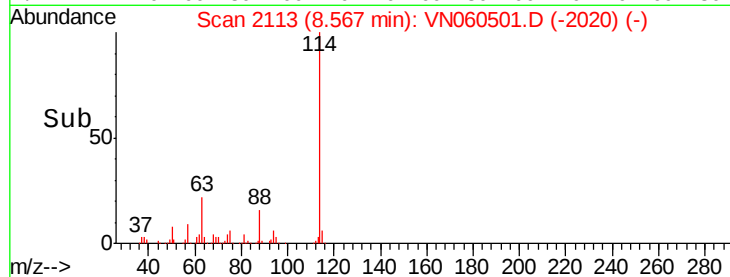
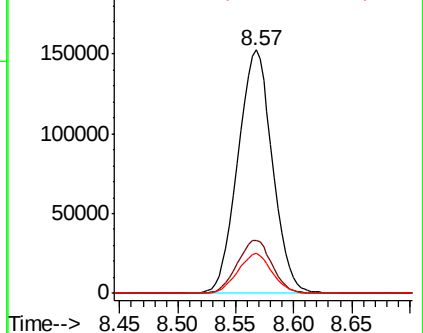
88 16.2 0.0 31.6



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: 64.288 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

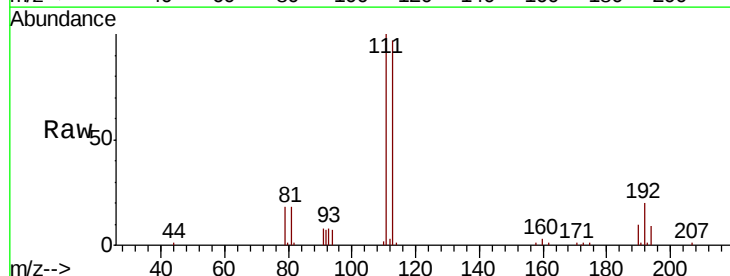
Tgt Ion:113 Resp: 94229

Ion Ratio Lower Upper

113 100

111 102.2 82.4 123.6

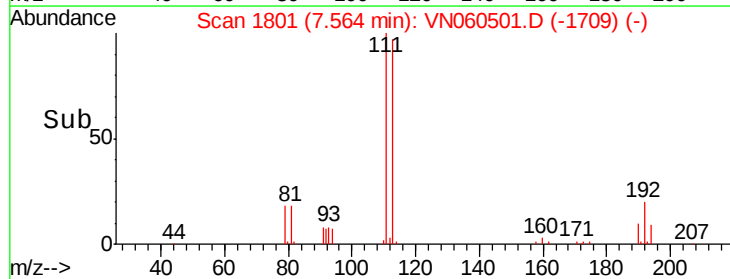
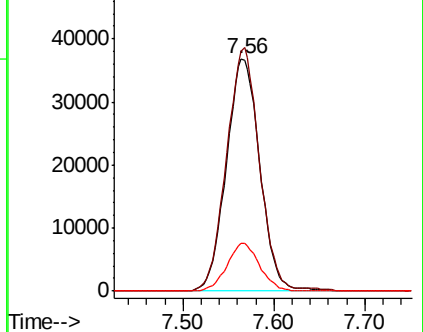
192 19.8 16.2 24.2

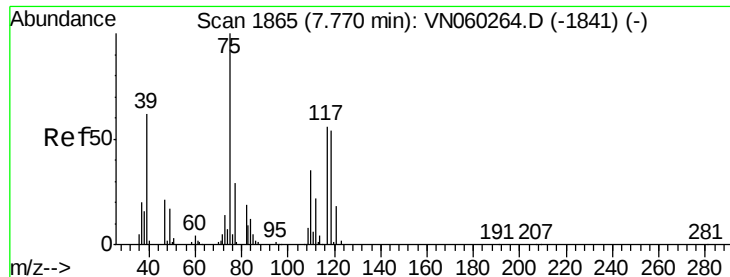


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.036 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

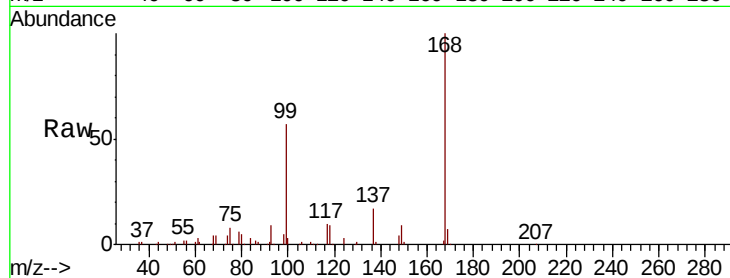
Tot Ion: 75 Resp: 15155

Ion Ratio Lower Upper

75 100

110 7.6 17.3 52.0#

77 0.0 24.2 36.2#

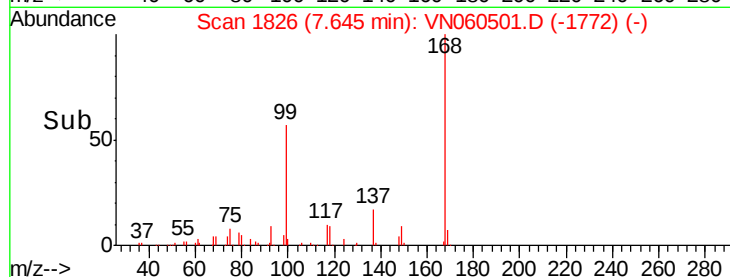


Abundance Ion 74.90 (74.60 to 75.60): VN060501.D (-1772) (-)

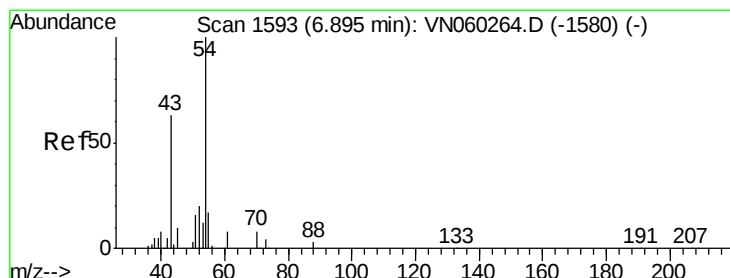
Ion 109.90 (109.60 to 110.60): VN060501.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060501.D (-1772) (-)

Time-->



Time-->



#37

Ethyl Acetate

Concen: 0.389 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.08 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

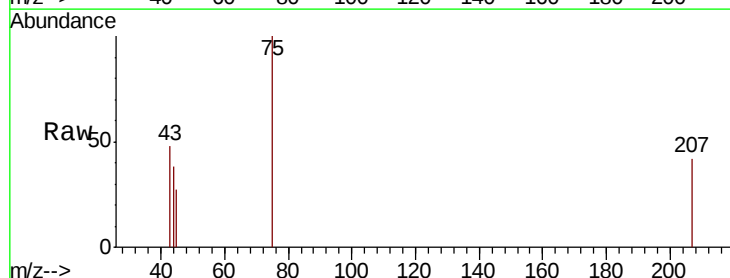
Tgt Ion: 43 Resp: 1109

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

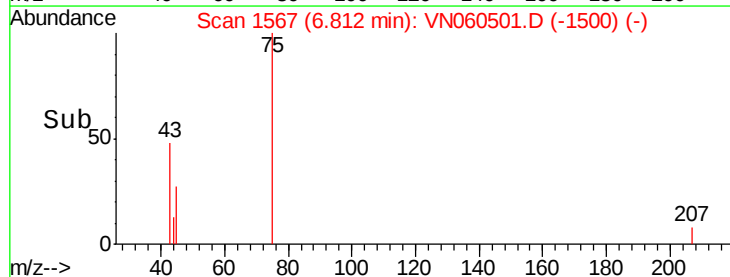


Abundance Ion 43.00 (42.70 to 43.70): VN060501.D (-1500) (-)

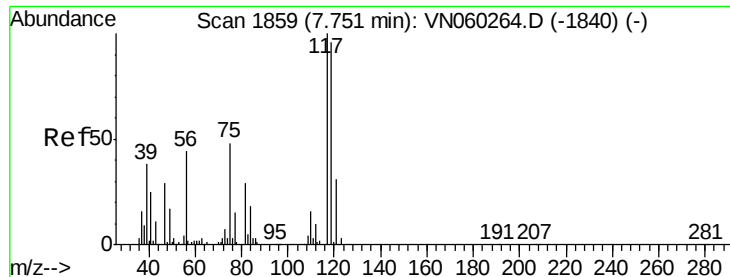
Ion 60.90 (60.60 to 61.60): VN060501.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060501.D (-1500) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.286 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

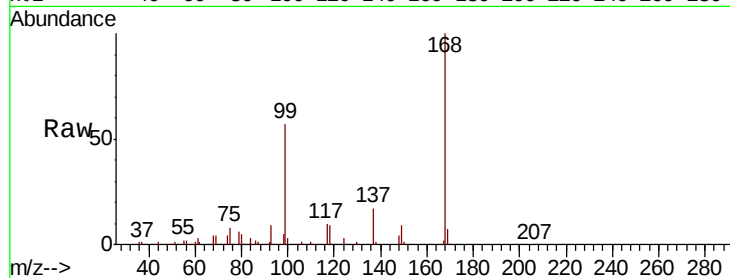
Tot Ion:117 Resp: 18419

Ion Ratio Lower Upper

117 100

119 4.6 76.7 115.1#

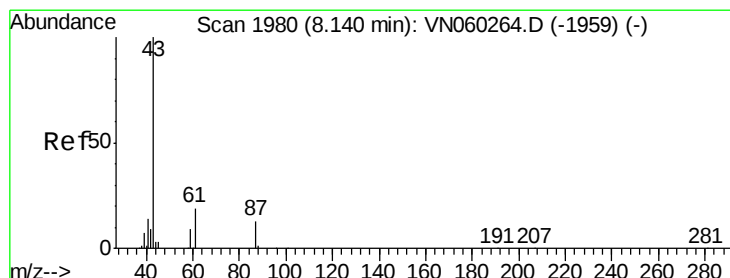
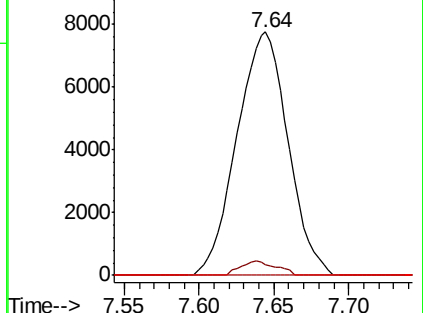
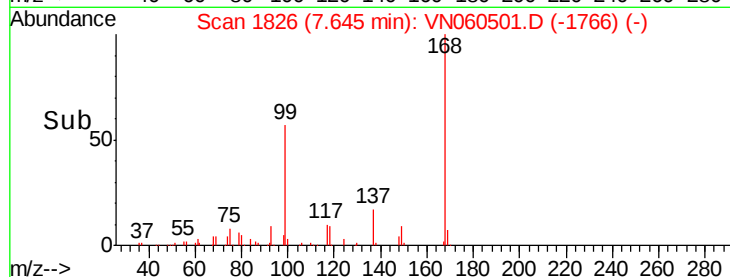
121 0.0 24.5 36.7#



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: 13.346 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

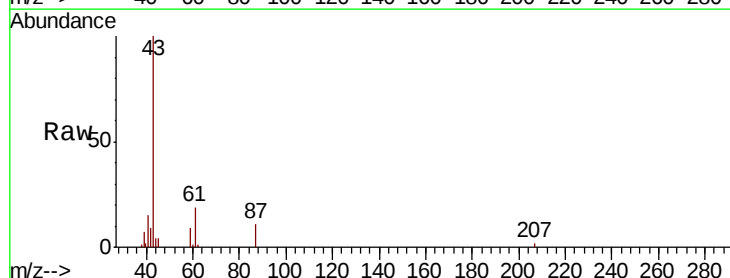
Tgt Ion: 43 Resp: 66582

Ion Ratio Lower Upper

43 100

61 18.6 20.9 31.3#

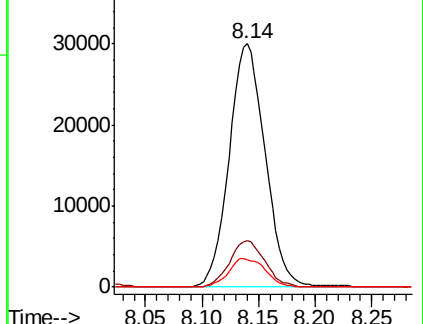
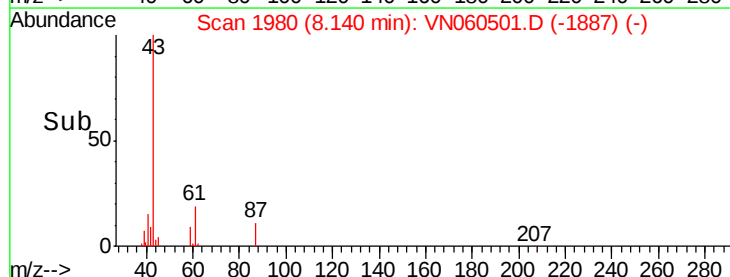
87 11.8 10.6 16.0

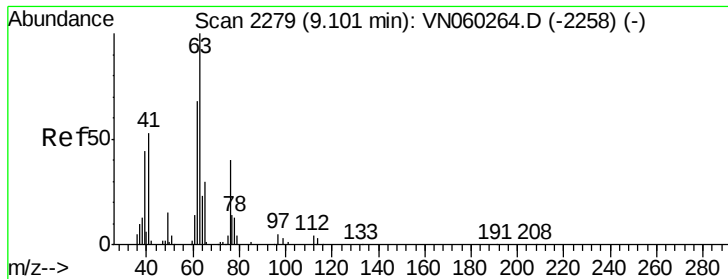


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.519 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

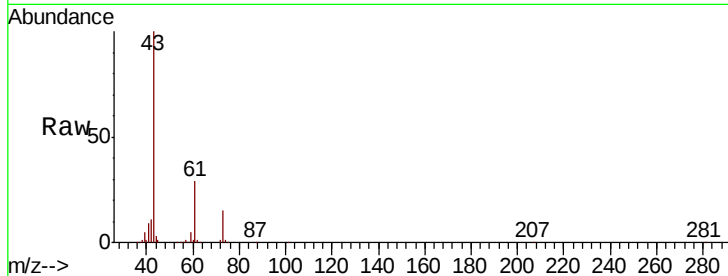
ClientSampleId :

Tot Ion: 63 Resp: 1189

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.25

800

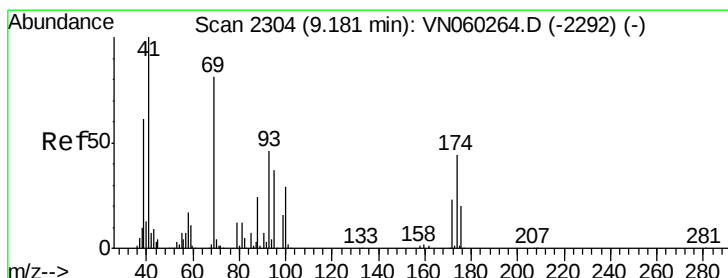
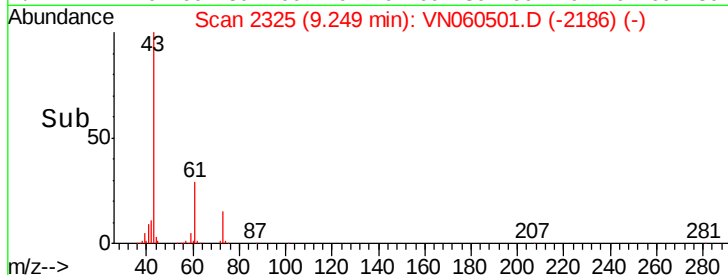
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.489 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

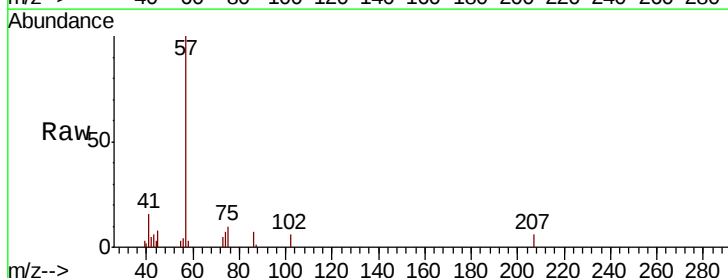
Tgt Ion: 41 Resp: 3387

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

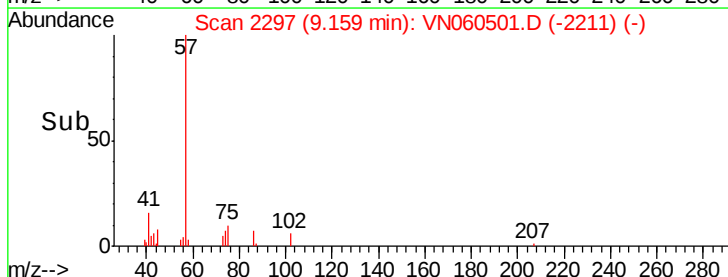
30000

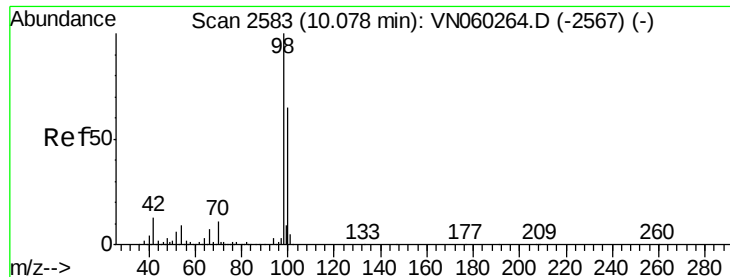
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 52.785 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

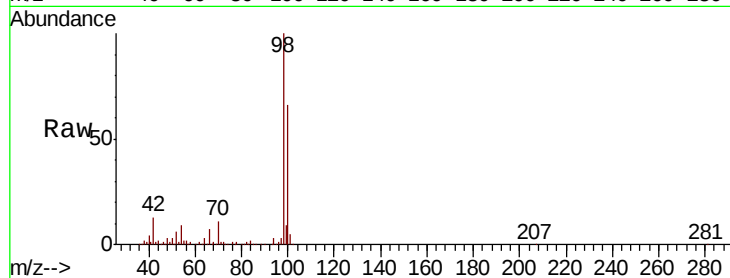
ClientSampled :

Tot Ion: 98 Resp: 391572

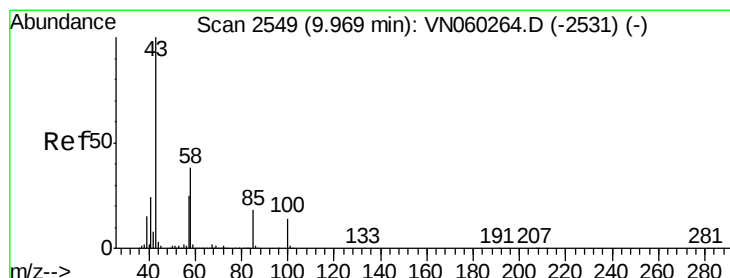
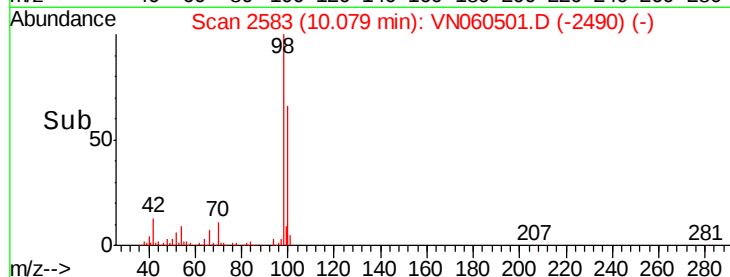
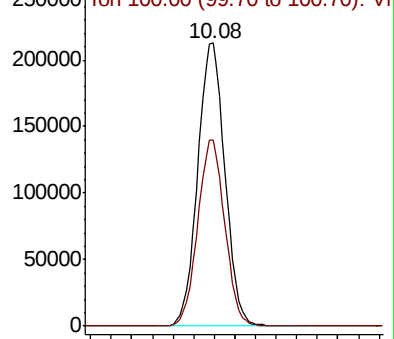
Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2



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



#51

4-Methyl-2-Pentanone

Concen: 1.750 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060501.D

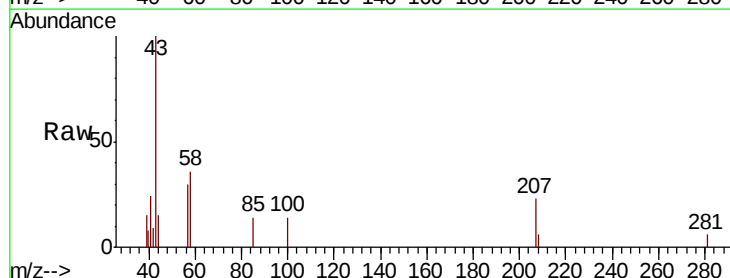
Acq: 13 Mar 2020 14:41

Tgt Ion: 43 Resp: 4949

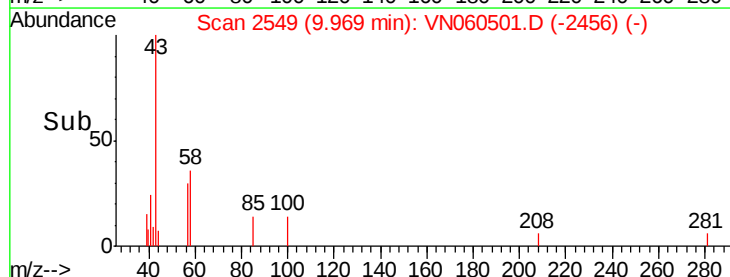
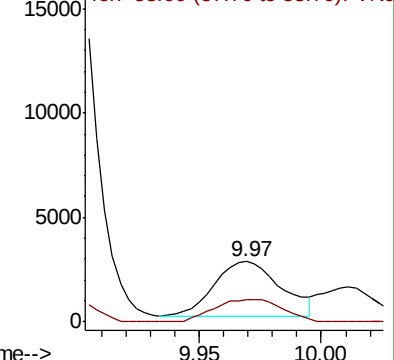
Ion Ratio Lower Upper

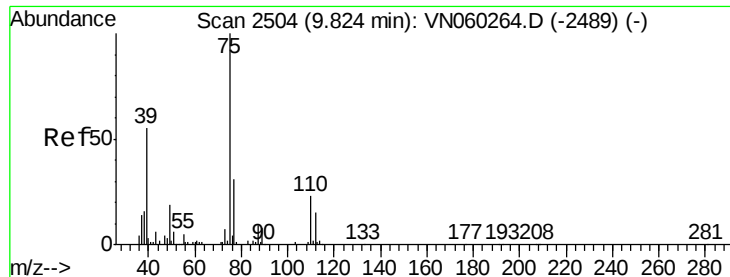
43 100

58 42.2 30.9 46.3



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





#54

cis-1,3-Dichloropropene

Concen: 7.279 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

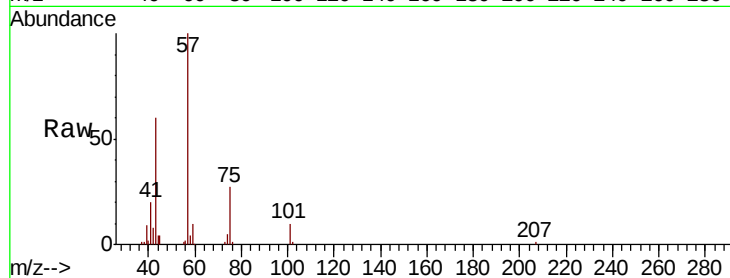
Tot Ion: 75 Resp: 27934

Ion Ratio Lower Upper

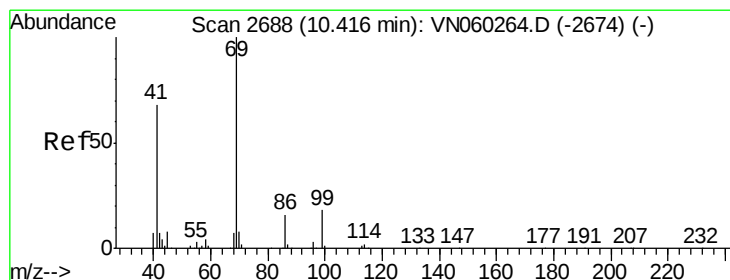
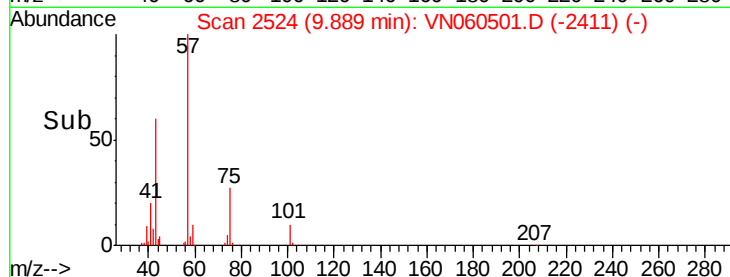
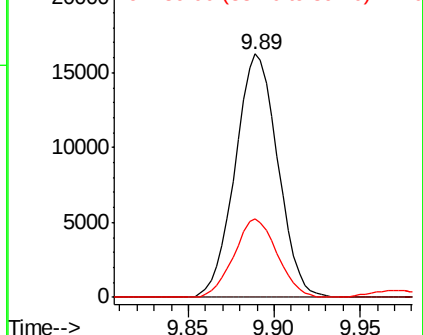
75 100

77 0.0 24.8 37.2#

39 32.2 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.203 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

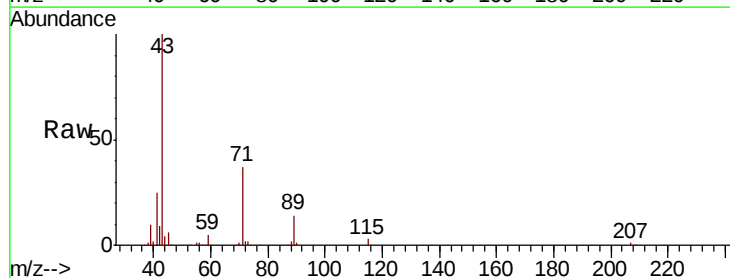
Tgt Ion: 69 Resp: 644

Ion Ratio Lower Upper

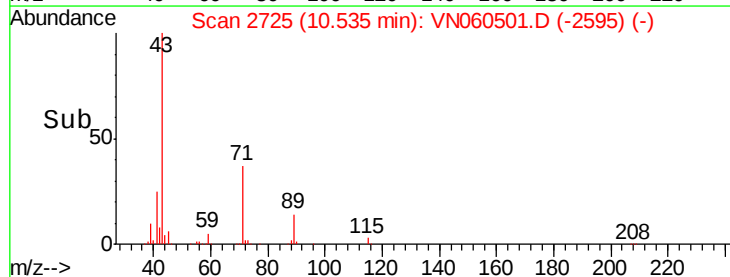
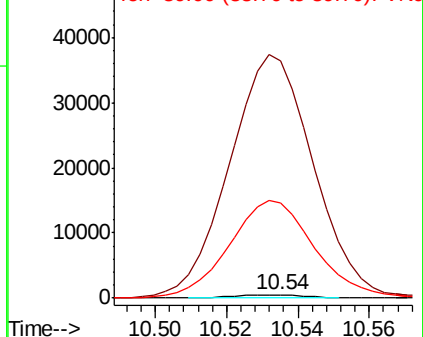
69 100

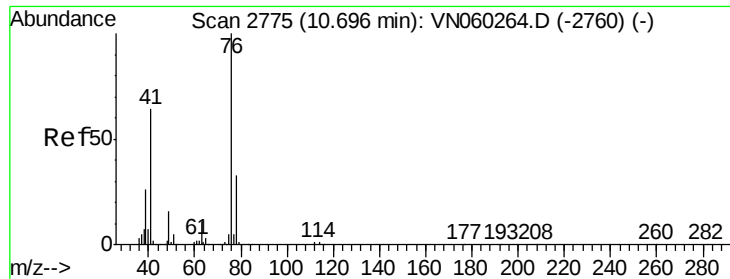
41 9531.5 54.1 81.1#

39 3849.7 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.283 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

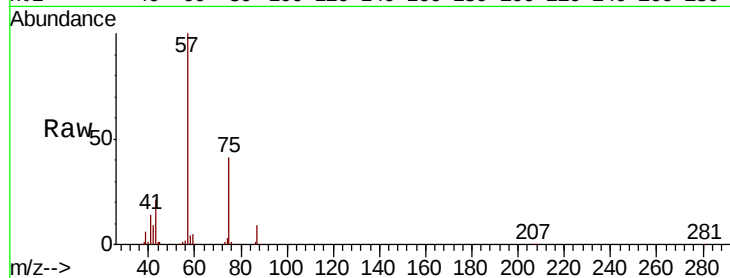
ClientSampleId :

Tot Ion: 76 Resp: 4630

Ion Ratio Lower Upper

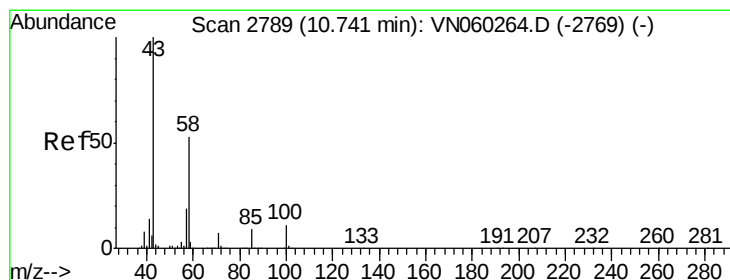
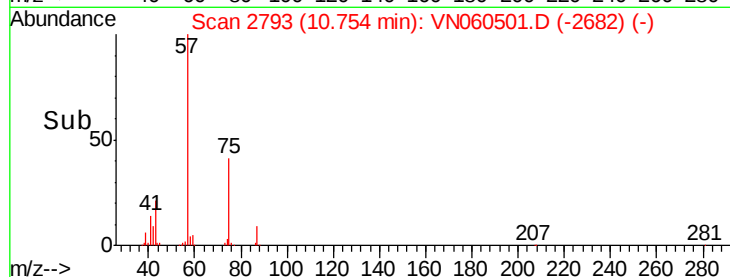
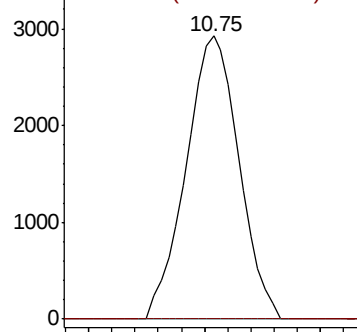
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 33.172 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060501.D

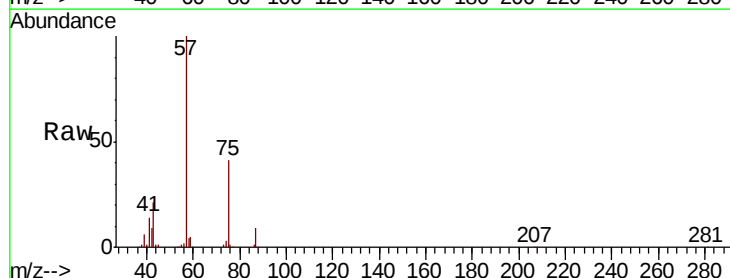
Acq: 13 Mar 2020 14:41

Tgt Ion: 43 Resp: 68892

Ion Ratio Lower Upper

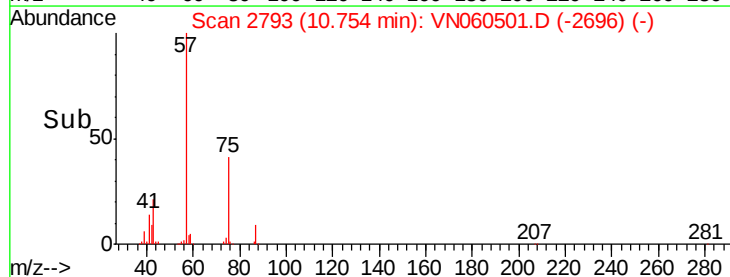
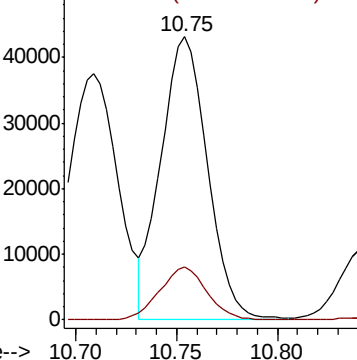
43 100

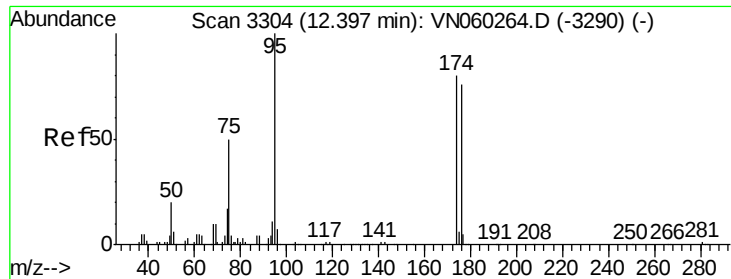
58 19.0 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.691 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

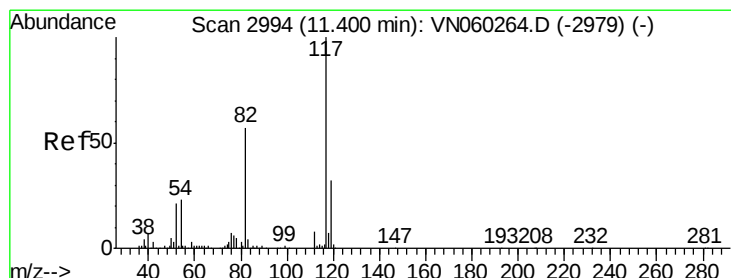
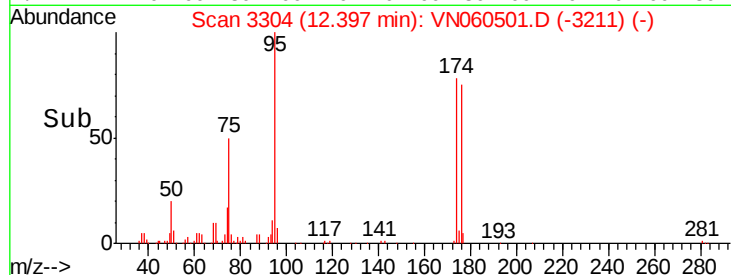
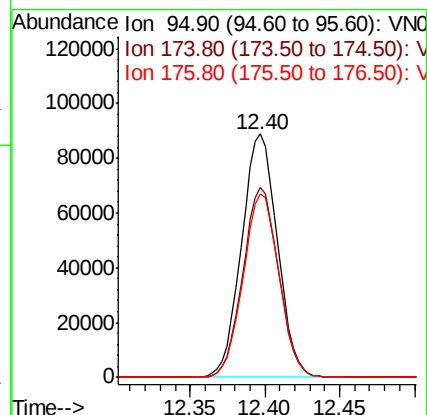
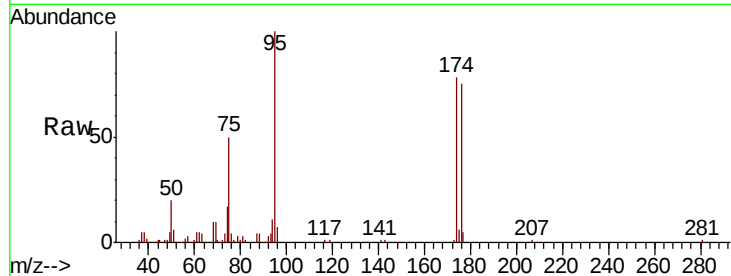
Tot Ion: 95 Resp: 148173

Ion Ratio Lower Upper

95 100

174 77.9 0.0 159.2

176 75.7 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: VN060501.D

Acq: 13 Mar 2020 14:41

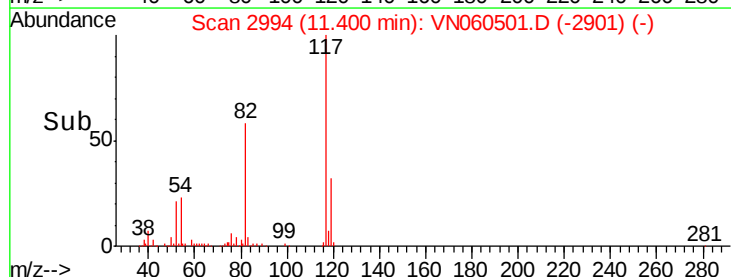
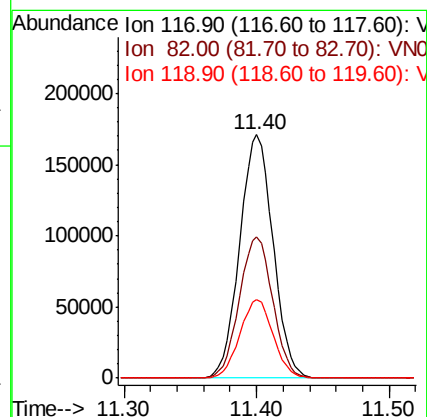
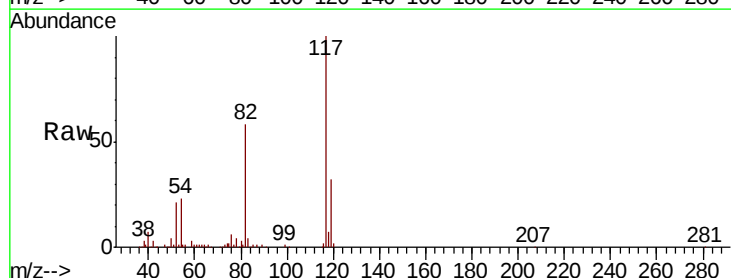
Tgt Ion: 117 Resp: 298425

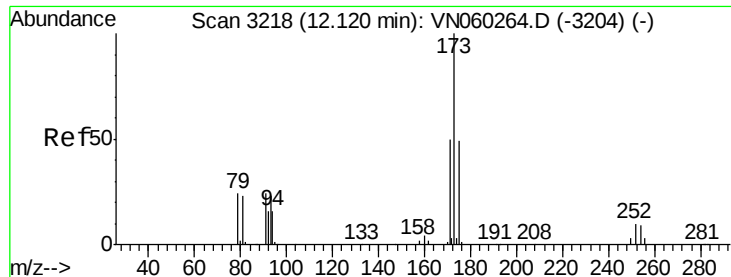
Ion Ratio Lower Upper

117 100

82 58.2 45.8 68.6

119 32.4 25.8 38.8





#71

Bromoform

Concen: 0.292 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

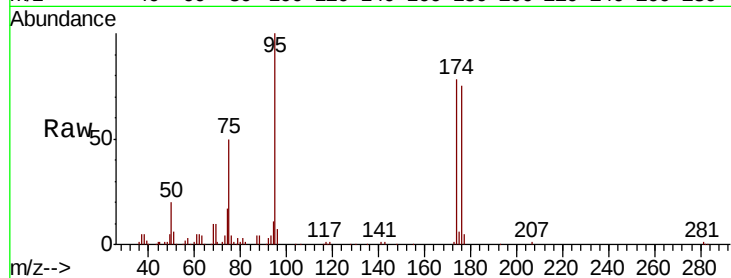
Tot Ion:173 Resp: 469

Ion Ratio Lower Upper

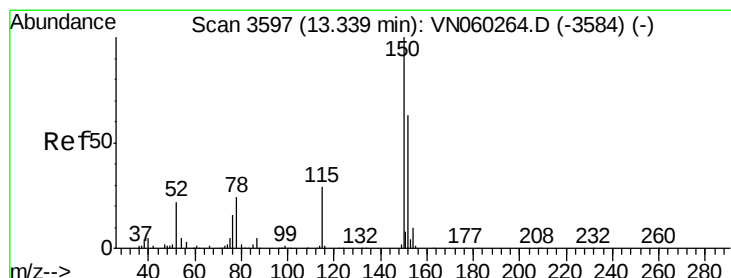
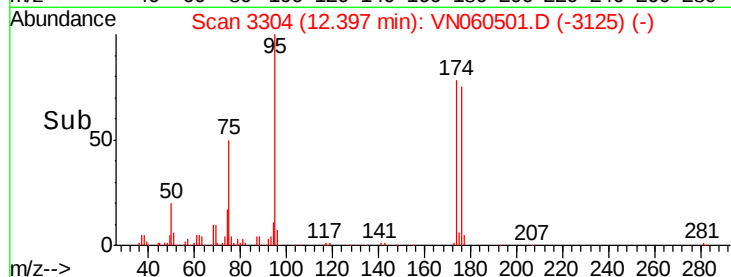
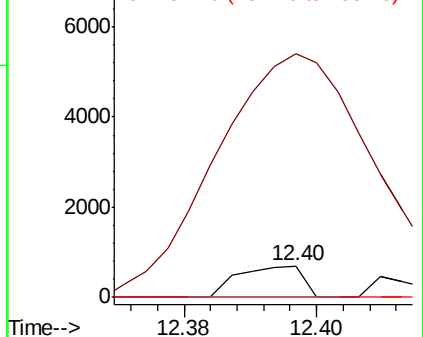
173 100

175 1608.1 24.1 72.2#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VN060501.D

Acq: 13 Mar 2020 14:41

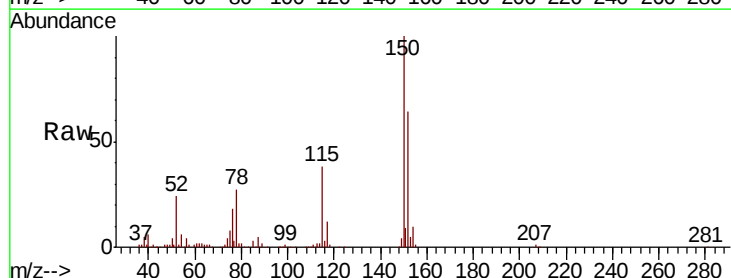
Tgt Ion:152 Resp: 139450

Ion Ratio Lower Upper

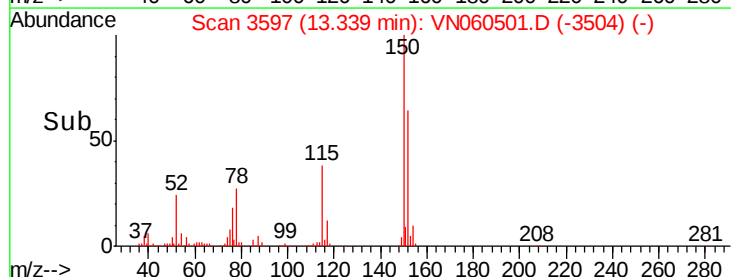
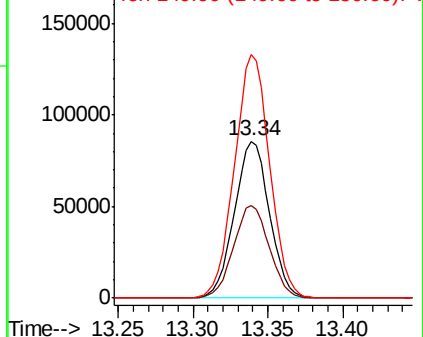
152 100

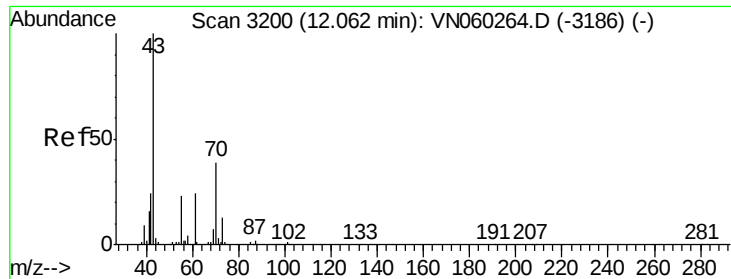
115 60.0 30.0 90.0

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: 0.534 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2410

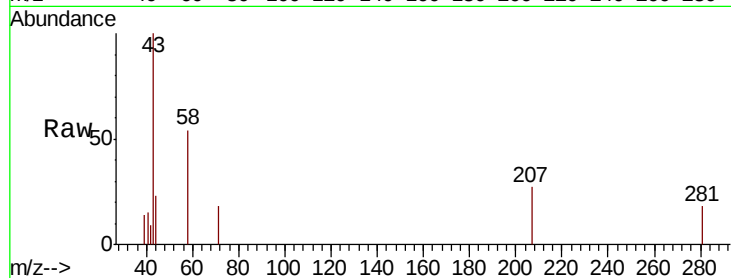
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

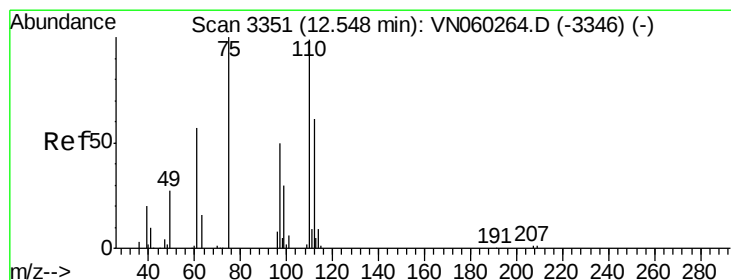
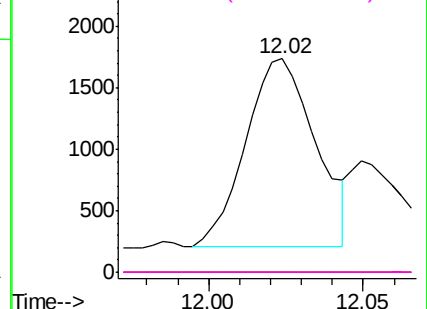
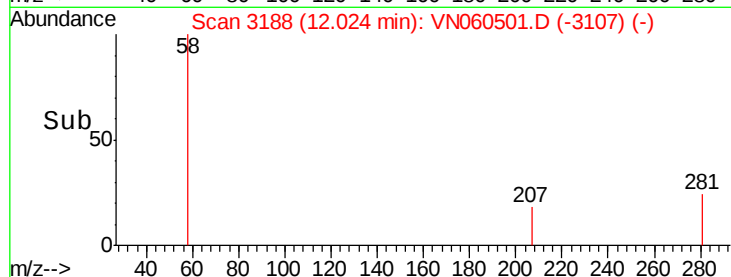


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.480 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060501.D

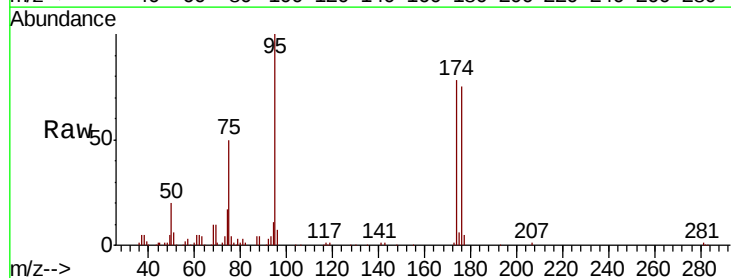
Acq: 13 Mar 2020 14:41

Tgt Ion: 75 Resp: 74898

Ion Ratio Lower Upper

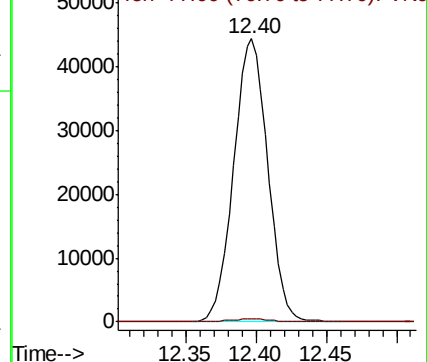
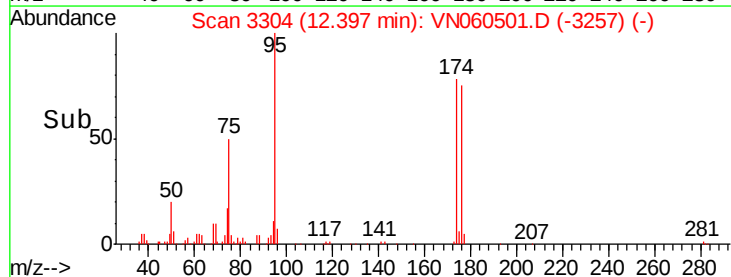
75 100

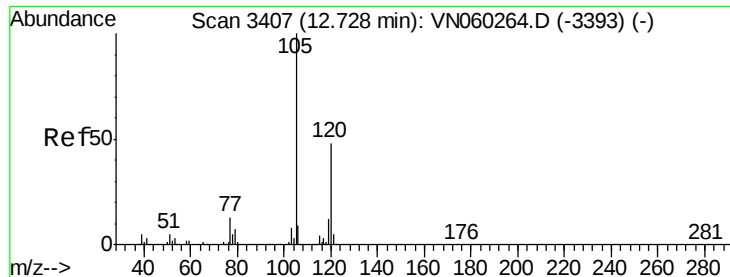
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.544 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

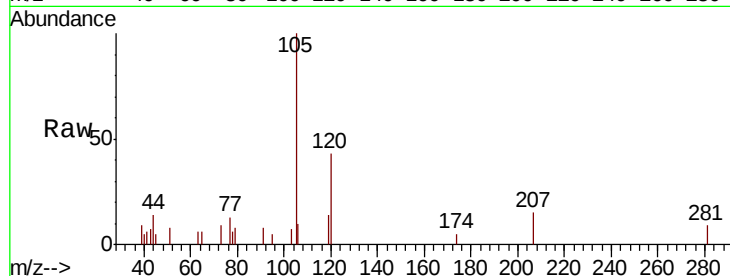
ClientSampleId :

Tot Ion:105 Resp: 4730

Ion Ratio Lower Upper

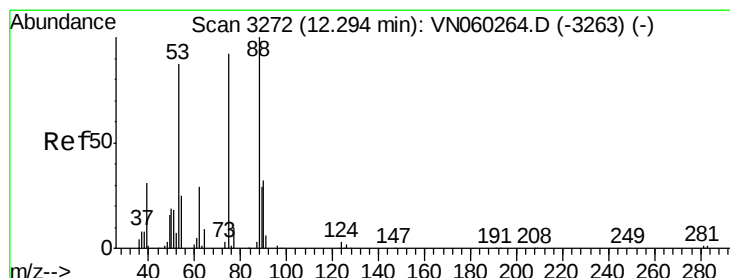
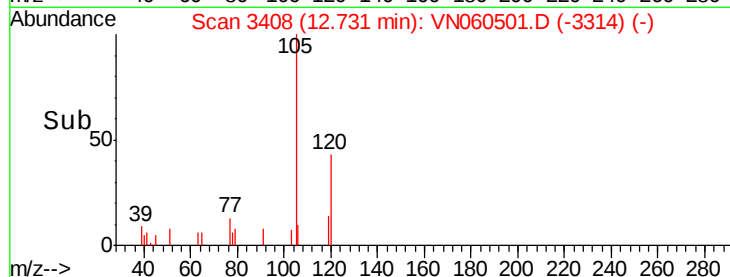
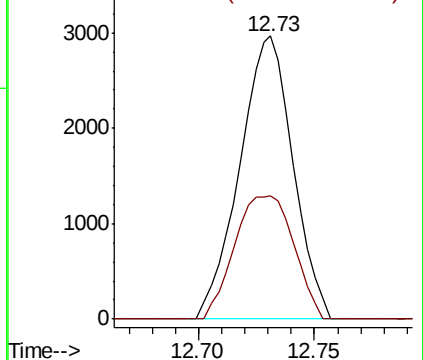
105 100

120 48.3 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: 67.577 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

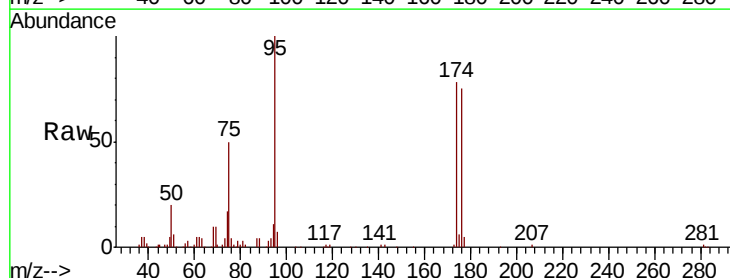
Tgt Ion: 75 Resp: 74898

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

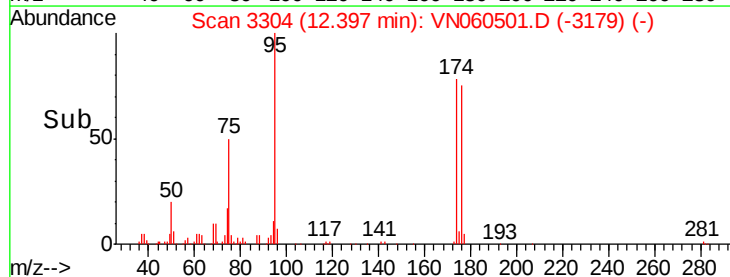
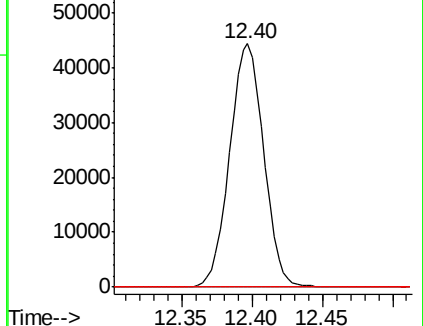
89 0.0 57.1 85.7#

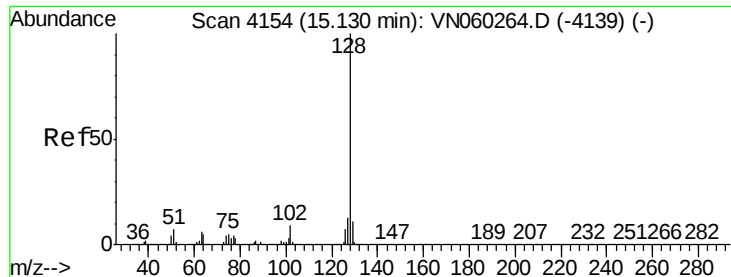


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060501.D

Acq: 13 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

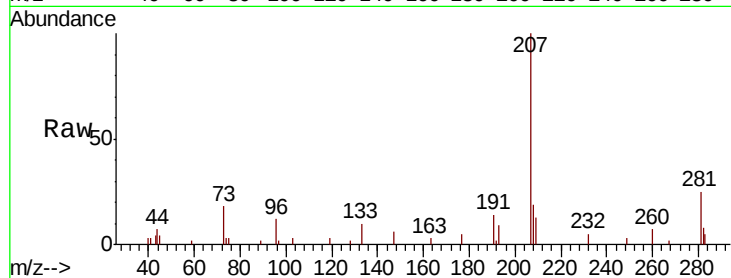
Tot Ion:128 Resp: 93

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

