

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060498.D
 Acq On : 13 Mar 2020 13:33
 Operator : JC/MD
 Sample : PB127465ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:28:19 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	204038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	335399	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	320127	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152159	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	132661	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
35) Dibromofluoromethane	7.56	113	99735	64.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.12%	
50) Toluene-d8	10.08	98	418901	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
62) 4-Bromofluorobenzene	12.40	95	160025	53.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.16%	

Target Compounds

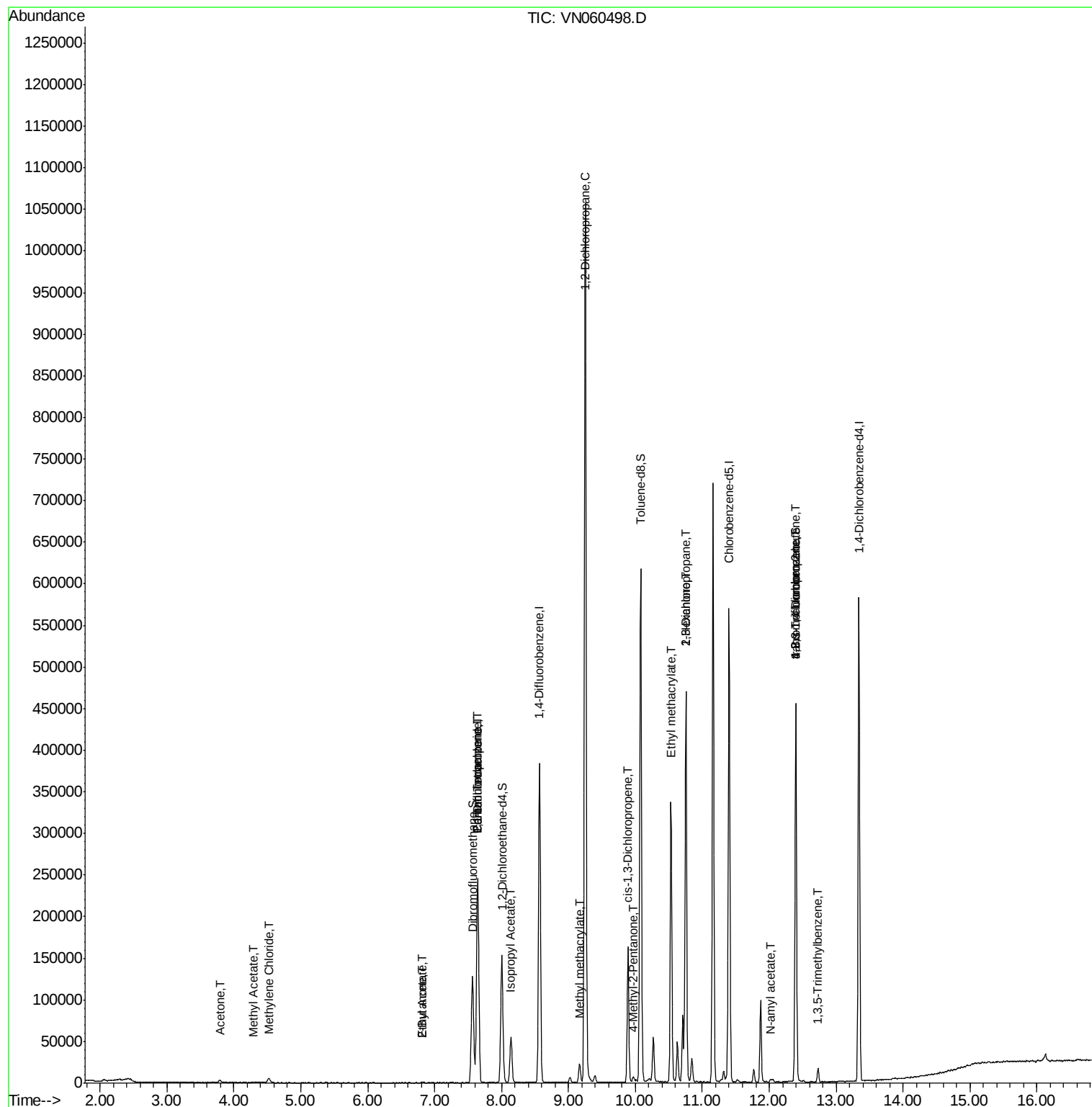
					Qvalue	
16) Acetone	3.79	43	5744	6.795	ug/l	96
18) Methyl Acetate	4.30	43	1760	0.624	ug/l #	52
20) Methylene Chloride	4.52	84	3928	1.692	ug/l	94
25) 2-Butanone	6.82	43	1063	0.778	ug/l #	49
31) Cyclohexane	7.64	56	4551	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15957	4.992	ug/l #	49
37) Ethyl Acetate	6.82	43	1063	0.351	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19222	6.176	ug/l #	16
43) Isopropyl Acetate	8.14	43	65692	12.398	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1128	0.464	ug/l #	44
48) Methyl methacrylate	9.16	41	3353	1.388	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5305	1.766	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	28918	7.095	ug/l #	57
56) Ethyl methacrylate	10.53	69	712	0.211	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4571	1.193	ug/l #	42
59) 2-Hexanone	10.75	43	69645	31.573	ug/l #	52
74) N-amyl acetate	12.03	43	3470	0.704	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	81069	24.284	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8600	0.906	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	81069	67.035	ug/l #	8
87) 1,3-Dichlorobenzene	13.35	146	228	Below Cal	#	1
88) 1,4-Dichlorobenzene	13.35	146	228	Below Cal	#	1
95) Naphthalene	15.13	128	544	Below Cal	#	69

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

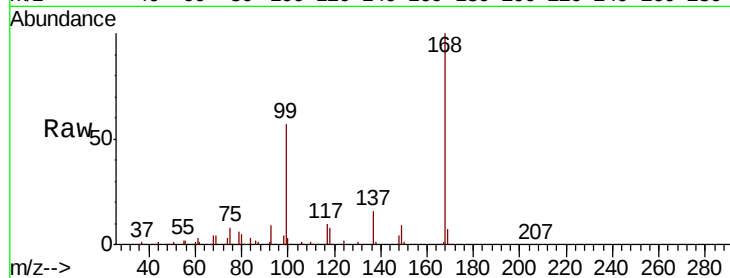
ClientSampleId :

Tot Ion:168 Resp: 204038

Ion Ratio Lower Upper

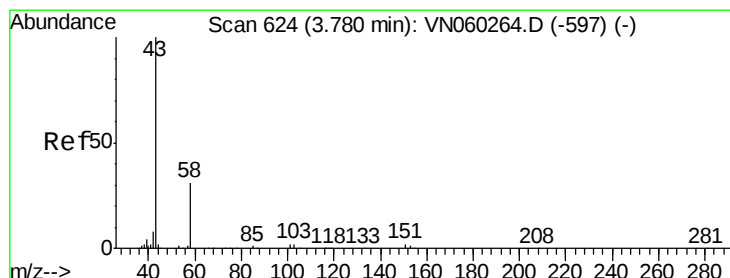
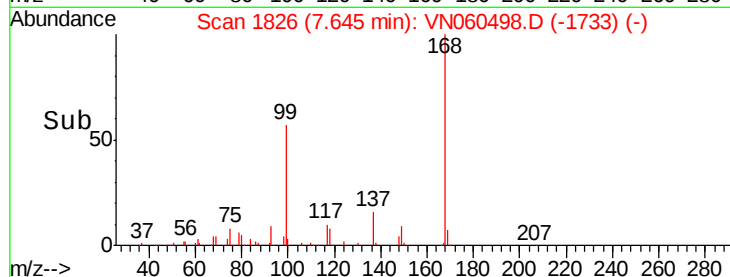
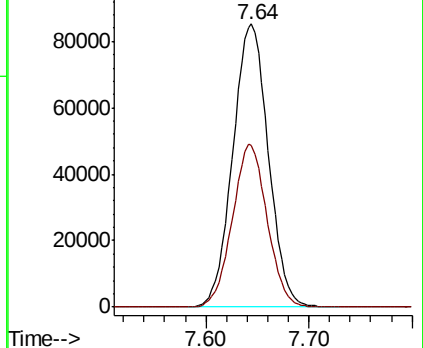
168 100

99 57.2 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: 6.795 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060498.D

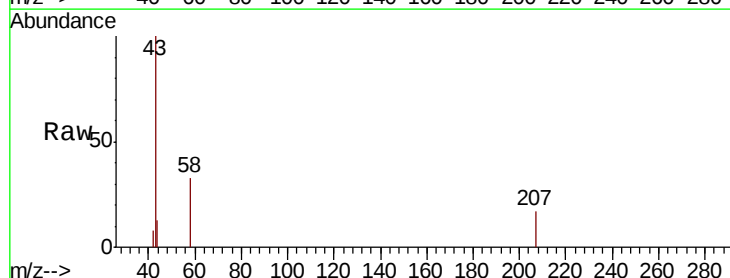
Acq: 13 Mar 2020 13:33

Tgt Ion: 43 Resp: 5744

Ion Ratio Lower Upper

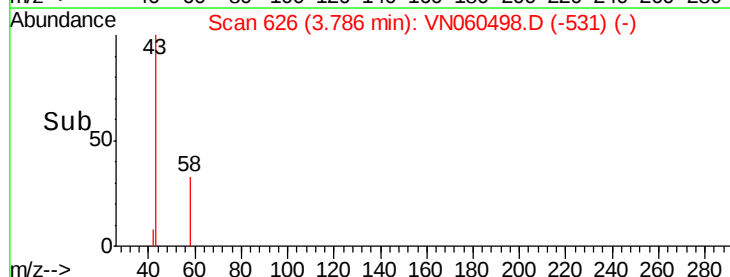
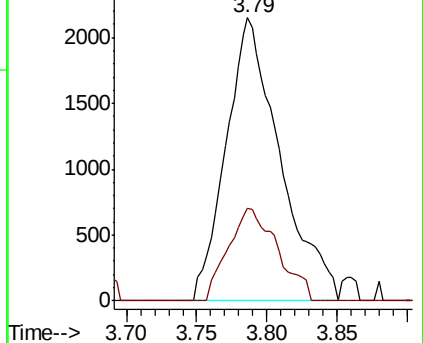
43 100

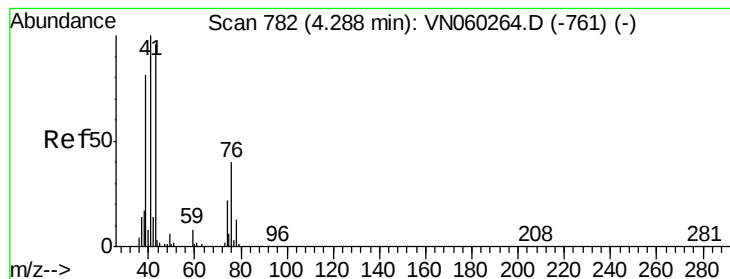
58 32.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#18

Methyl Acetate

Concen: 0.624 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

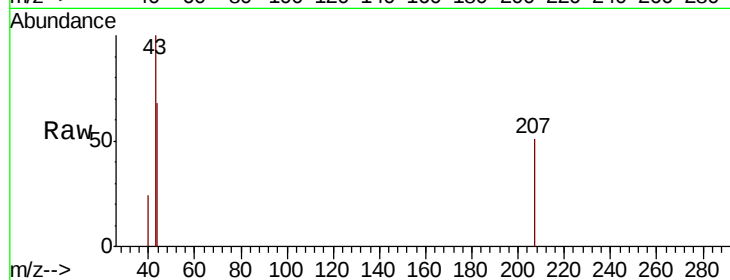
ClientSampleId :

Tot Ion: 43 Resp: 1760

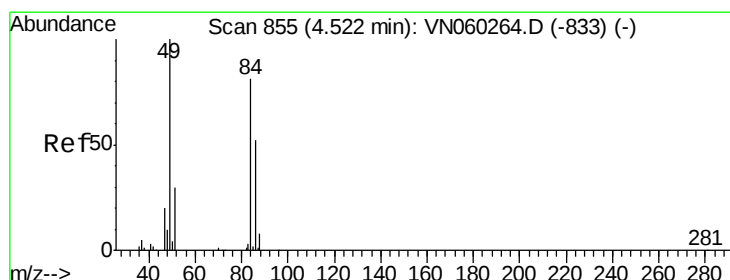
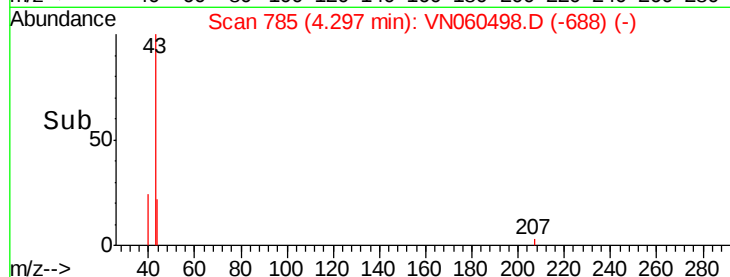
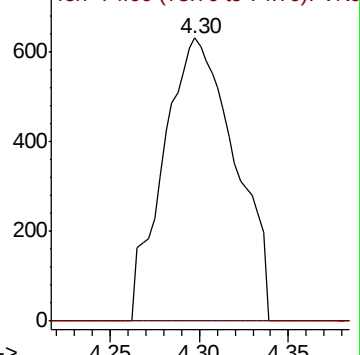
Ion Ratio Lower Upper

43 100

74 0.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060498.D (-688) (-)



#20

Methylene Chloride

Concen: 1.692 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Tgt Ion: 84 Resp: 3928

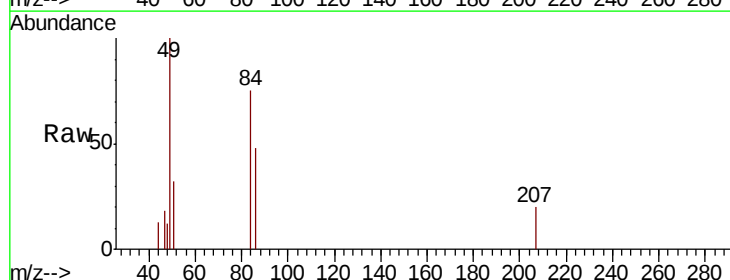
Ion Ratio Lower Upper

84 100

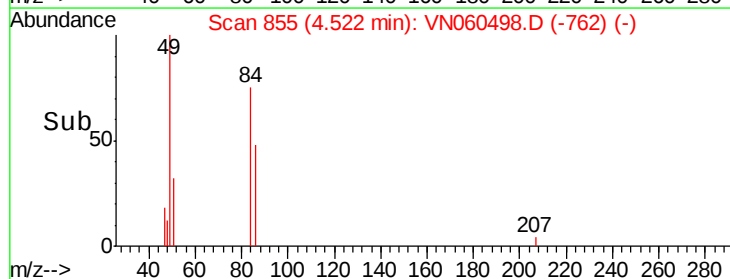
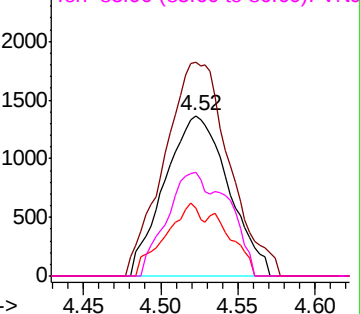
49 133.4 99.3 148.9

51 42.1 30.1 45.1

86 64.6 51.1 76.7



Abundance Ion 83.90 (83.60 to 84.60): VN060498.D (-762) (-)

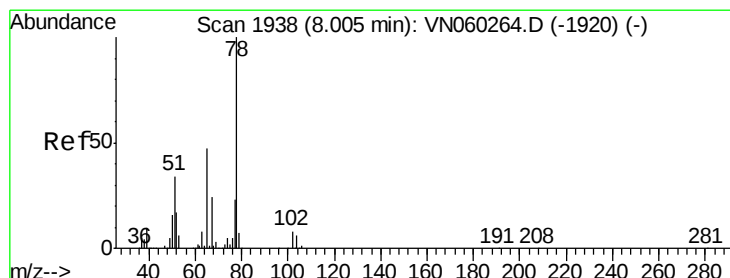
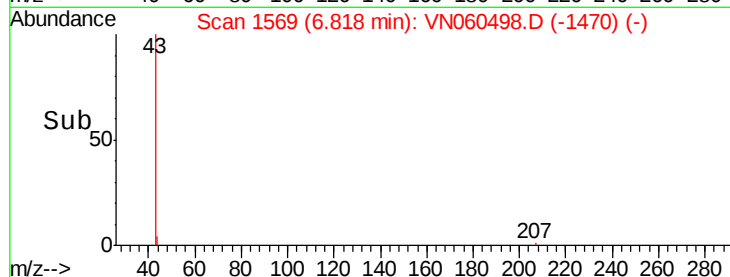
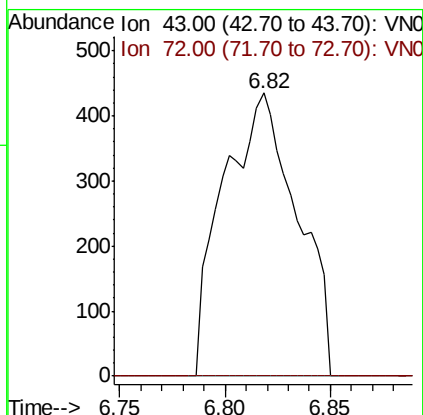
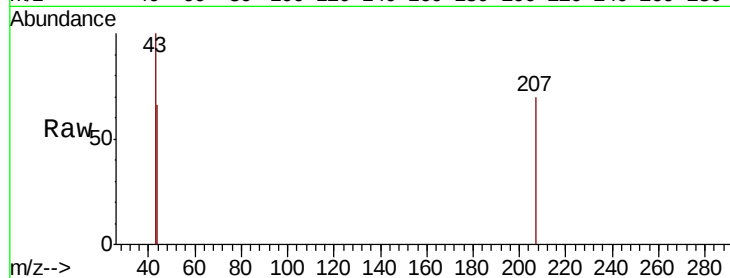




#25
2-Butanone
Concen: 0.778 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060498.D
Acq: 13 Mar 2020 13:33

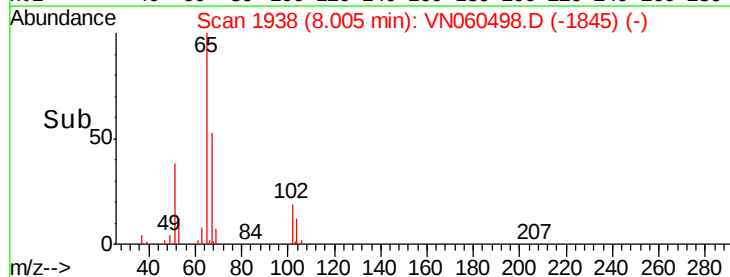
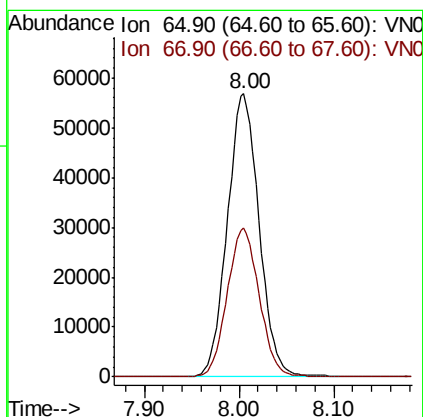
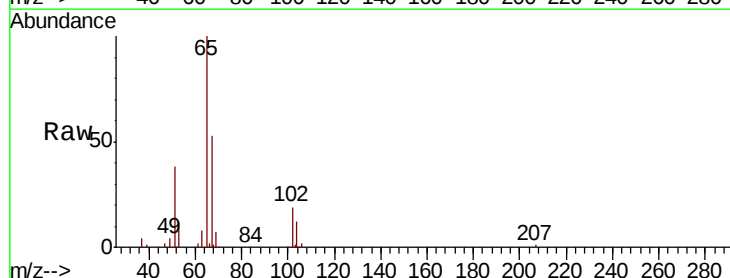
Instrument :
MSVOA_N
ClientSampled :

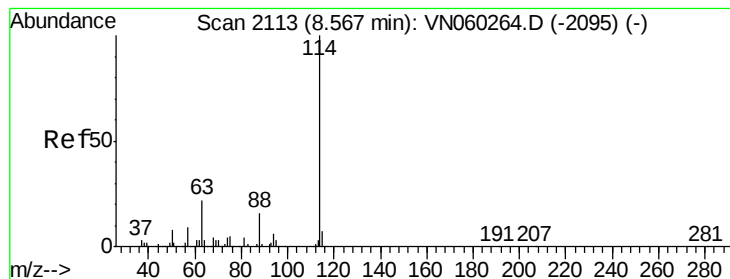
Tot Ion: 43 Resp: 1063
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 50.676 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060498.D
Acq: 13 Mar 2020 13:33

Tgt Ion: 65 Resp: 132661
Ion Ratio Lower Upper
65 100
67 52.9 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

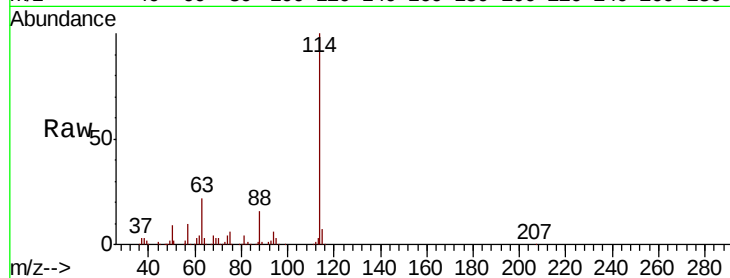
Tot Ion:114 Resp: 335399

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.2

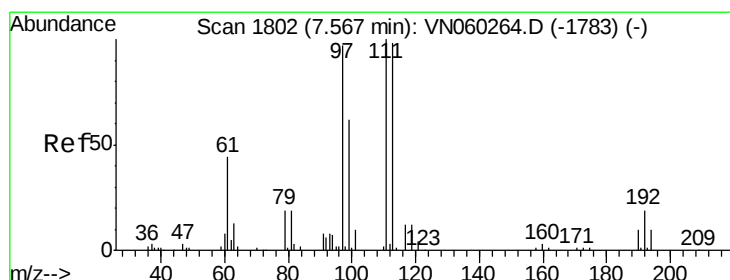
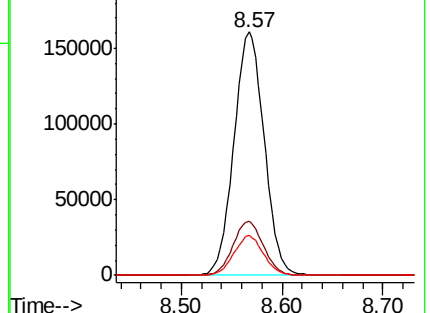
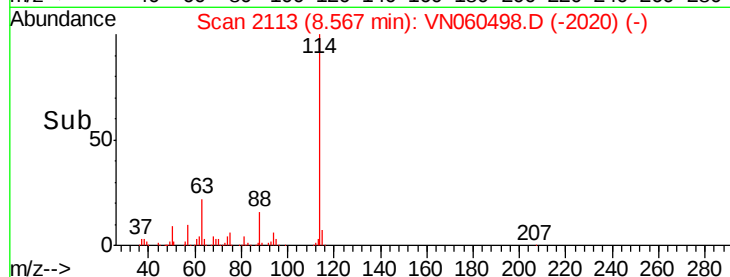
88 16.3 0.0 31.6



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: 64.064 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

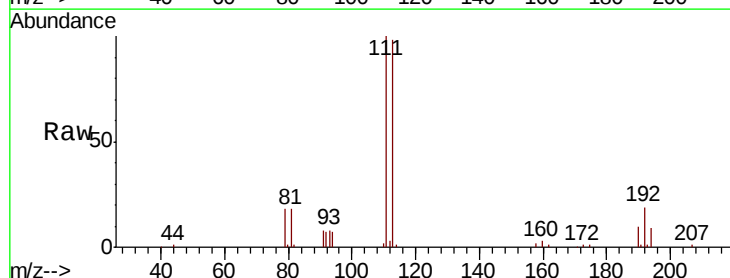
Tgt Ion:113 Resp: 99735

Ion Ratio Lower Upper

113 100

111 103.3 82.4 123.6

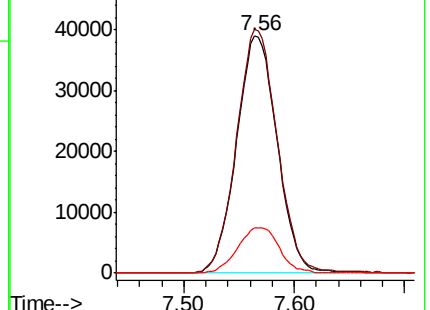
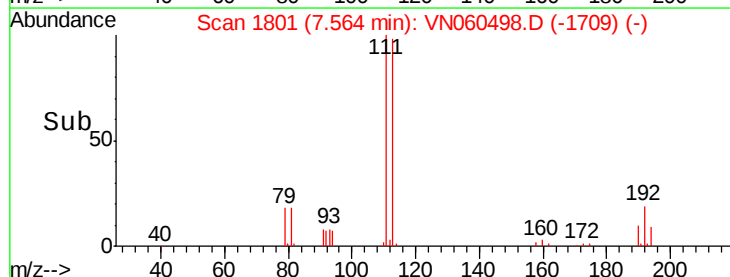
192 19.6 16.2 24.2

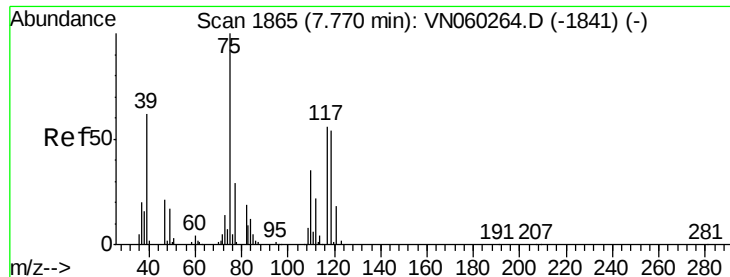


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.992 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

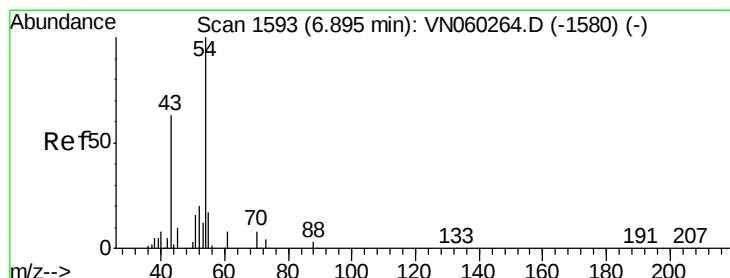
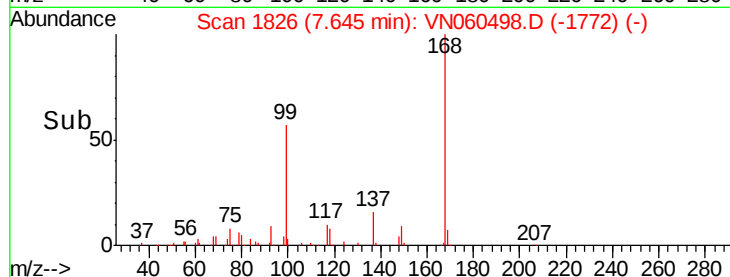
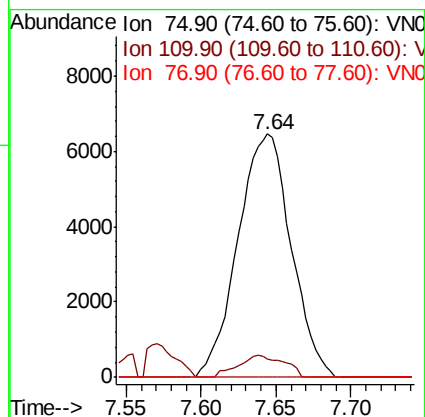
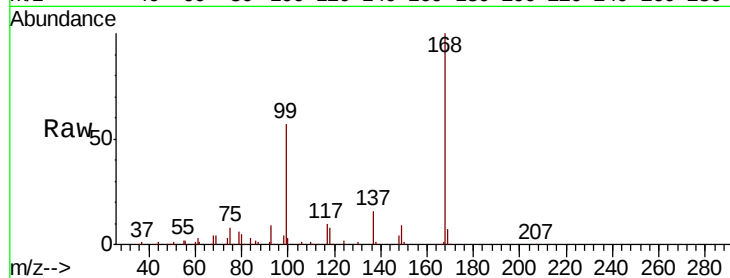
Tot Ion: 75 Resp: 15957

Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.351 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.08 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

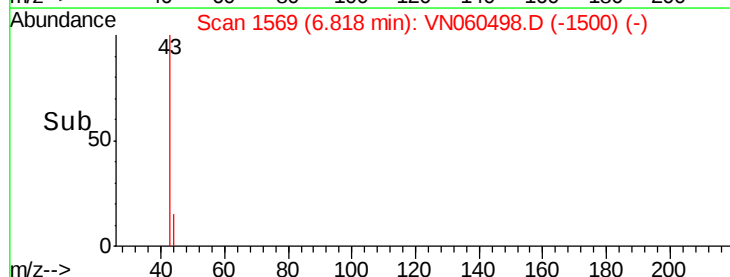
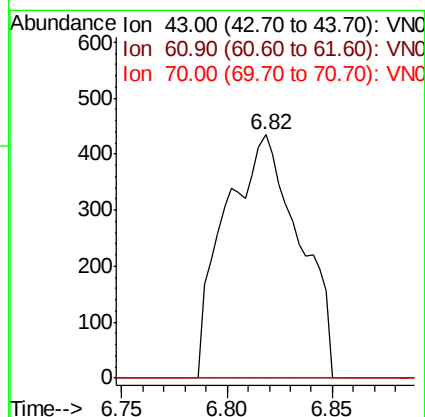
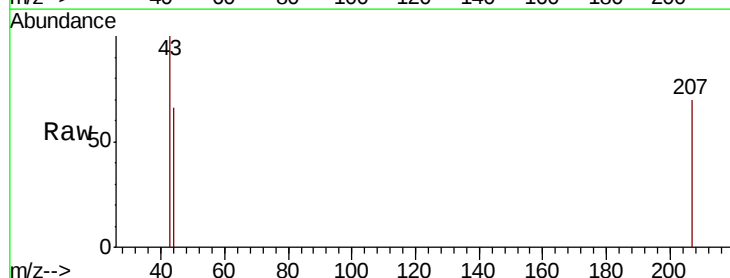
Tgt Ion: 43 Resp: 1063

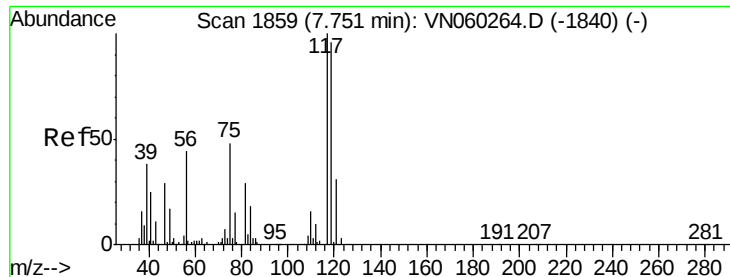
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.176 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

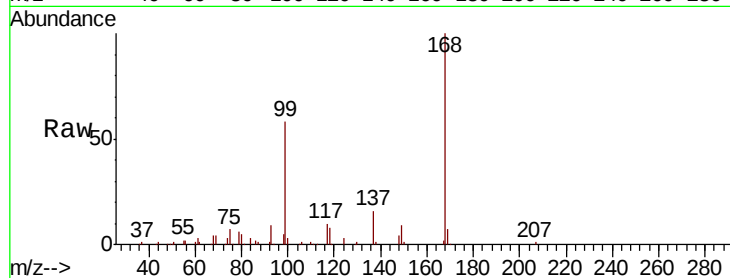
Tot Ion:117 Resp: 19222

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

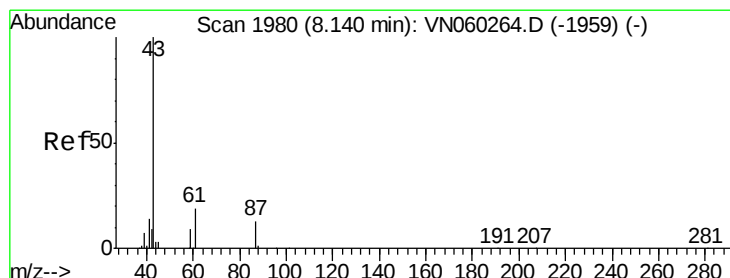
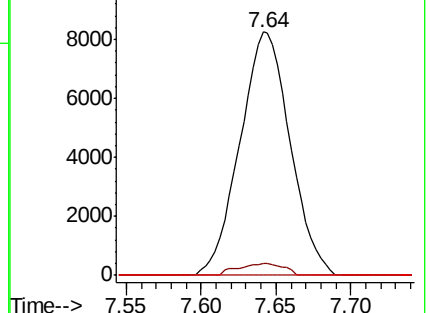
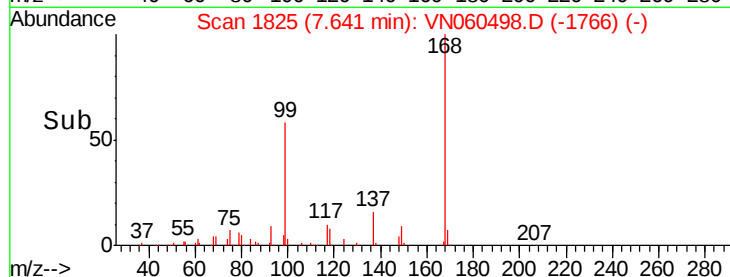
121 0.0 24.5 36.7#



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: 12.398 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

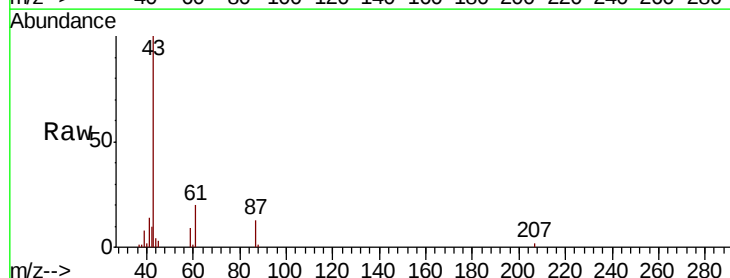
Tgt Ion: 43 Resp: 65692

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

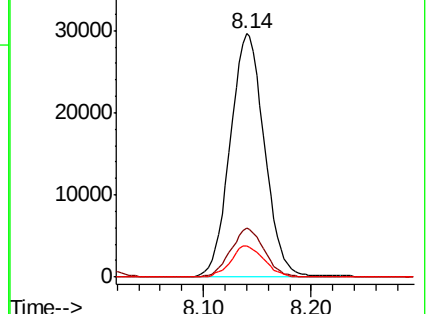
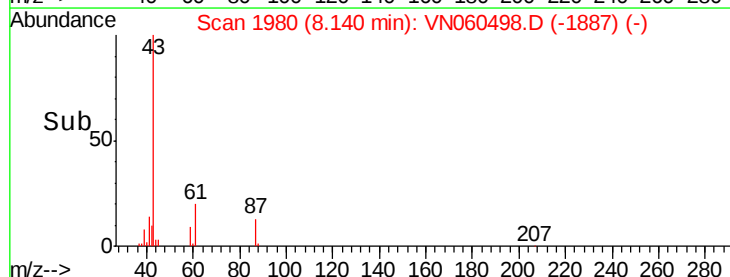
87 12.2 10.6 16.0

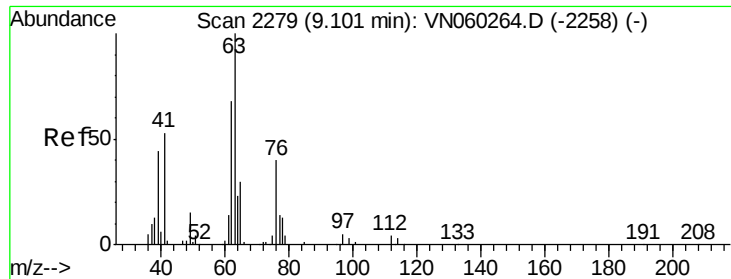


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.464 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

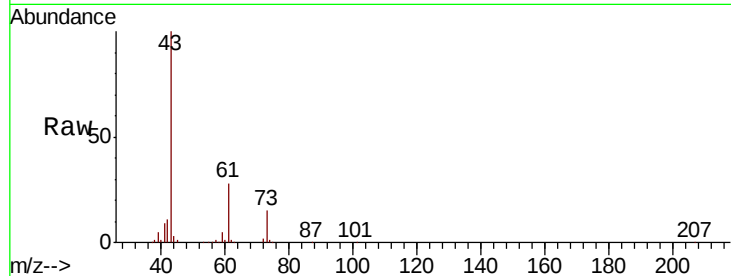
ClientSampleId :

Tot Ion: 63 Resp: 1128

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

800

600

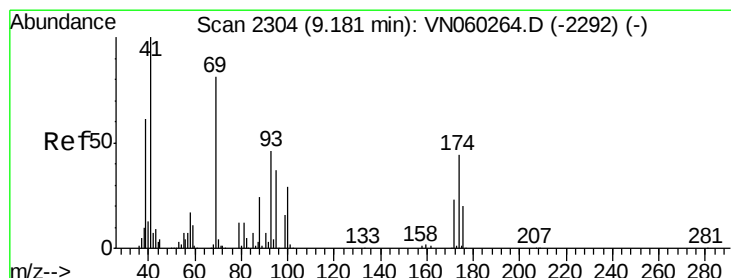
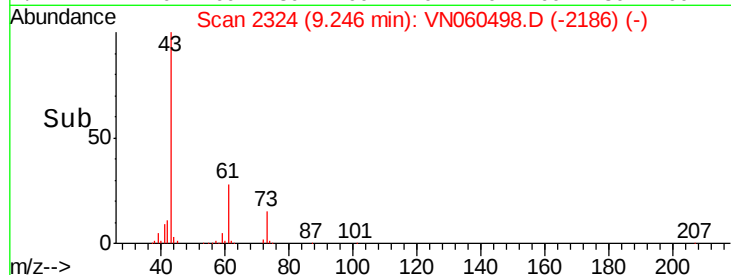
400

200

0

9.20 9.25

Time-->



#48

Methyl methacrylate

Concen: 1.388 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

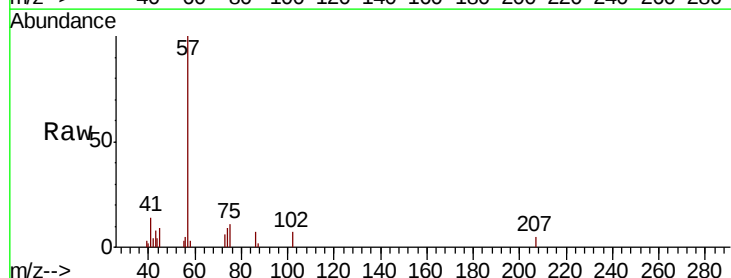
Tgt Ion: 41 Resp: 3353

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): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

60000

50000

40000

30000

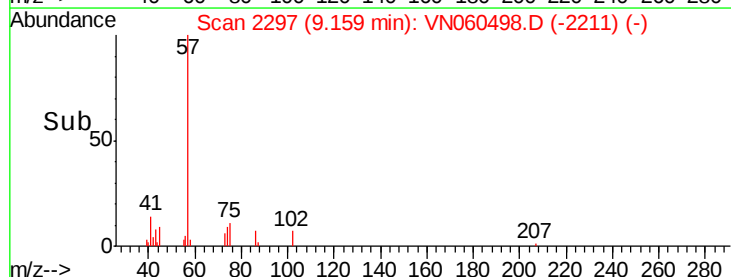
20000

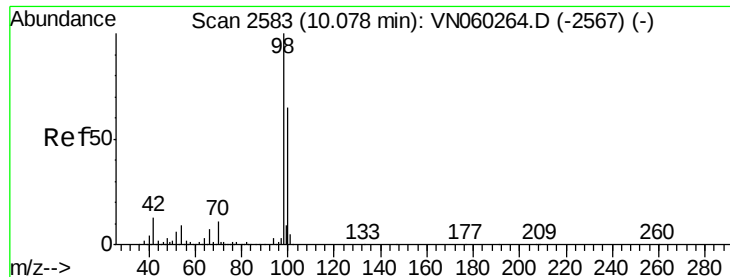
10000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 53.165 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

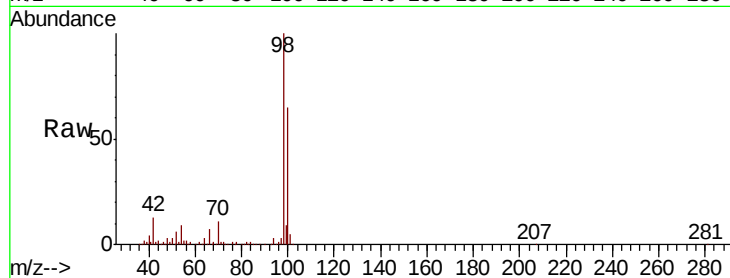
ClientSampled :

Tot Ion: 98 Resp: 418901

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

250000

200000

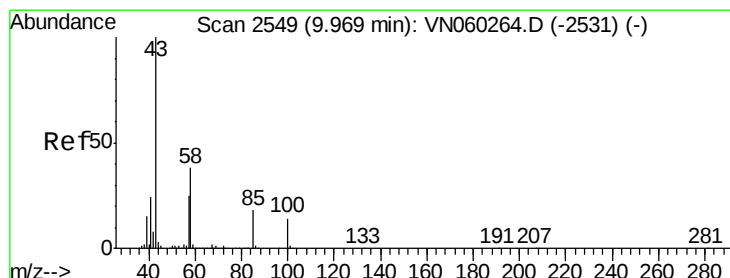
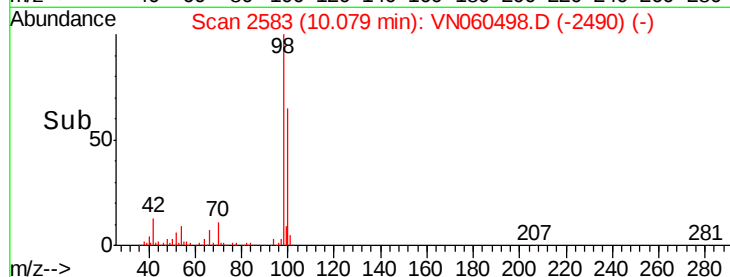
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.766 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060498.D

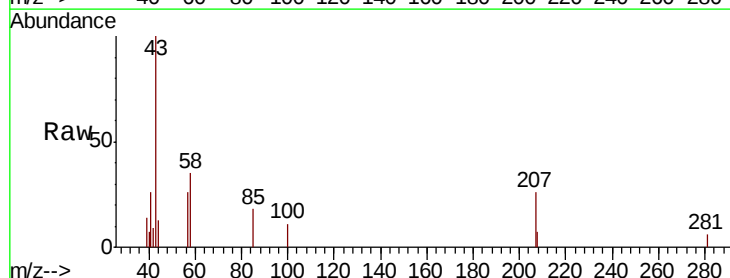
Acq: 13 Mar 2020 13:33

Tgt Ion: 43 Resp: 5305

Ion Ratio Lower Upper

43 100

58 31.3 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

20000

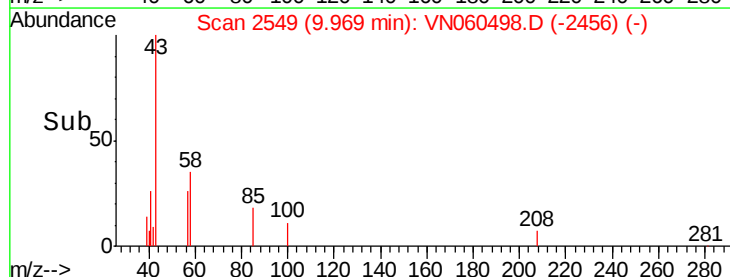
15000

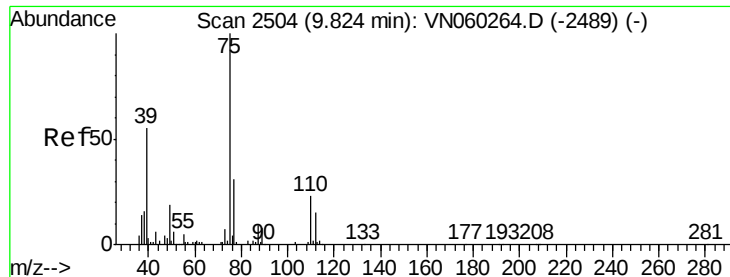
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 7.095 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

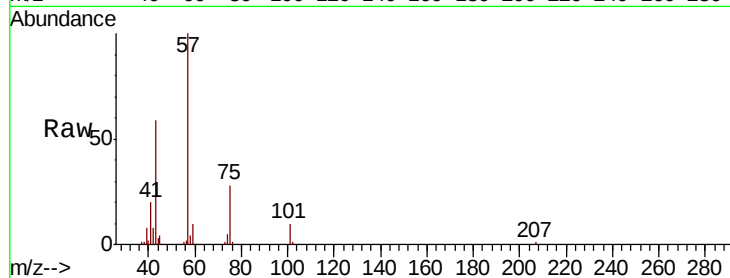
Tot Ion: 75 Resp: 28918

Ion Ratio Lower Upper

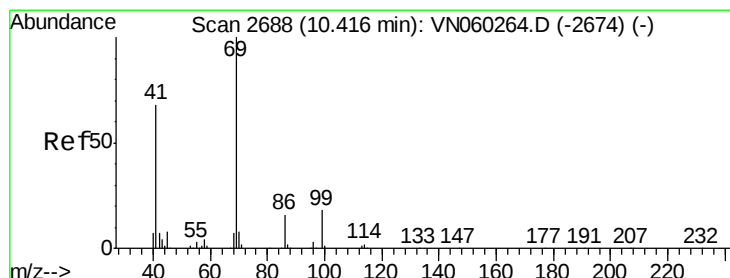
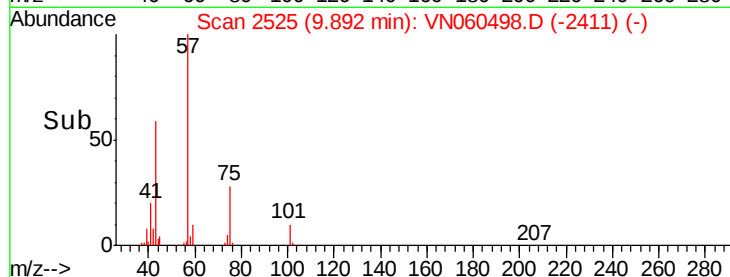
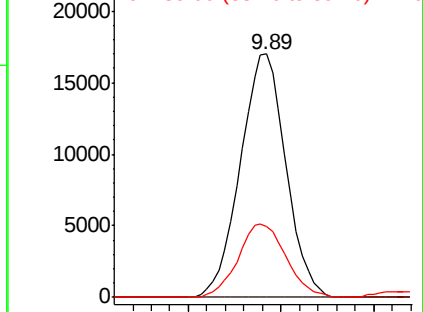
75 100

77 0.0 24.8 37.2#

39 29.0 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



#56

Ethyl methacrylate

Concen: 0.211 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. 0.12 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

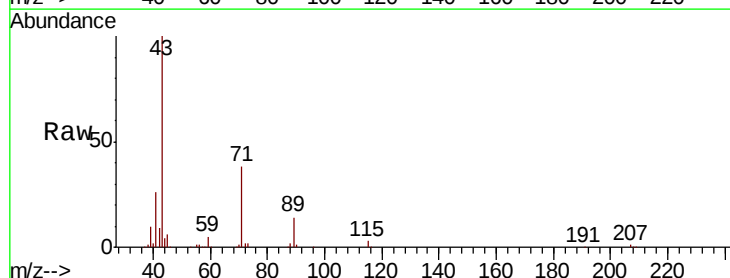
Tgt Ion: 69 Resp: 712

Ion Ratio Lower Upper

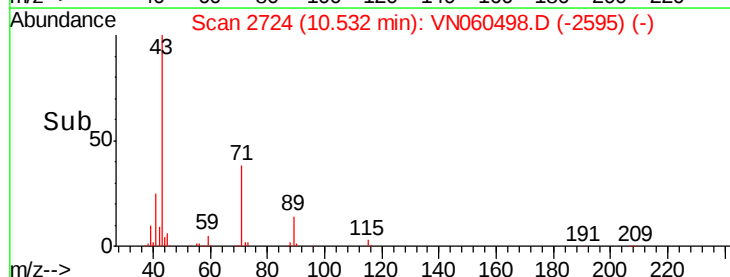
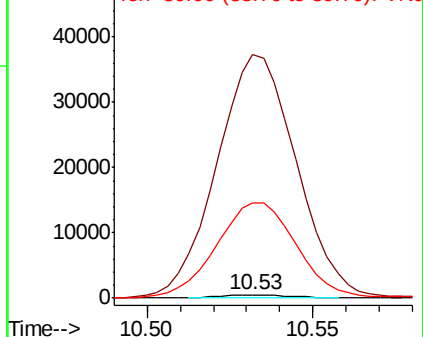
69 100

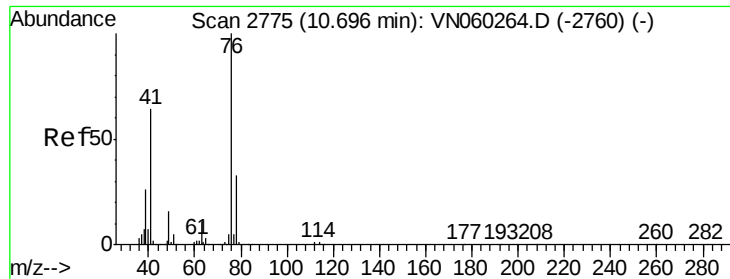
41 8798.9 54.1 81.1#

39 3486.7 32.5 48.7#



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

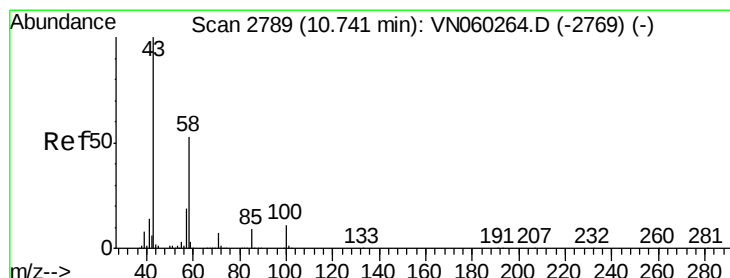
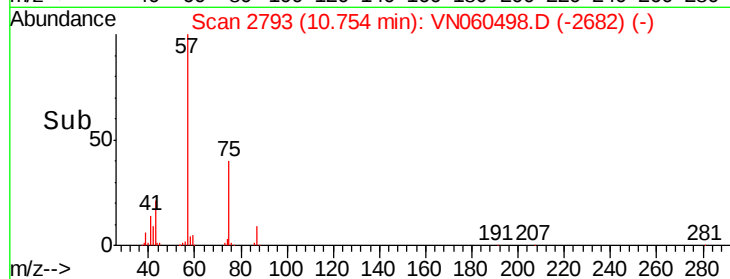
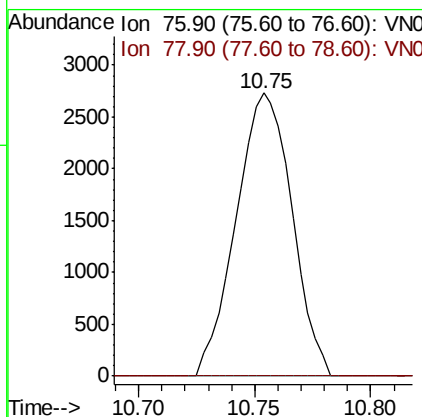
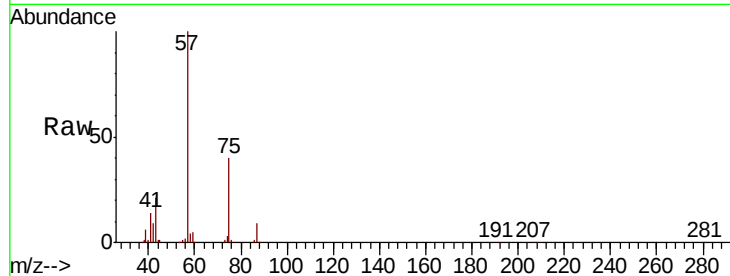




#57
 1,3-Dichloropropane
 Concen: 1.193 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060498.D
 Acq: 13 Mar 2020 13:33

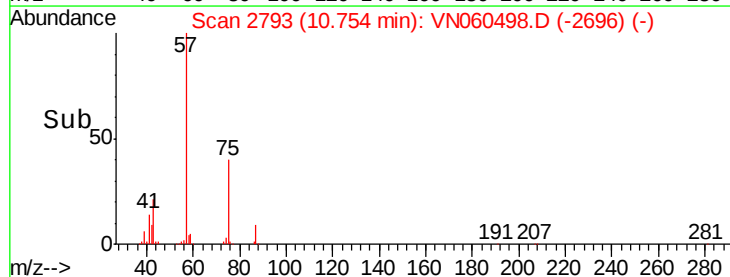
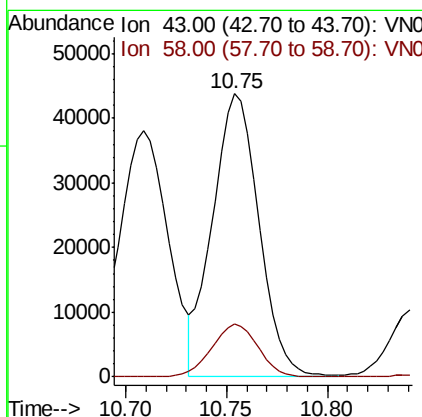
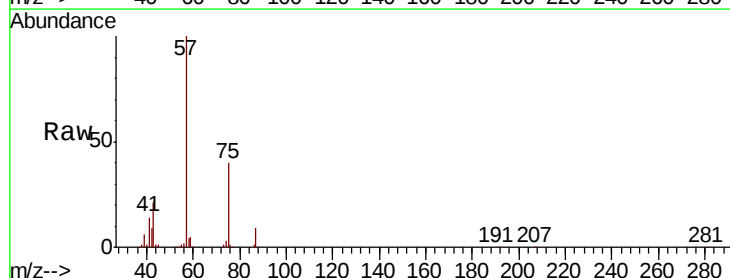
Instrument :
 MSVOA_N
 ClientSampled :

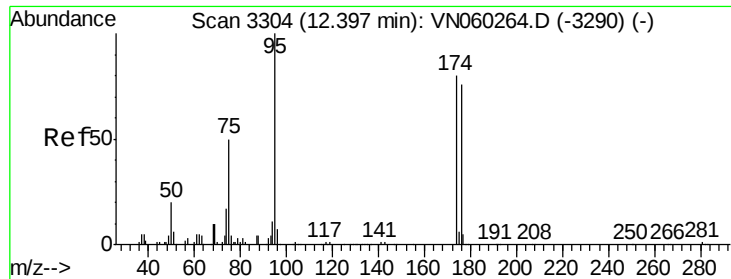
Tot Ion: 76 Resp: 4571
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 31.573 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060498.D
 Acq: 13 Mar 2020 13:33

Tgt Ion: 43 Resp: 69645
 Ion Ratio Lower Upper
 43 100
 58 18.7 26.5 79.5#

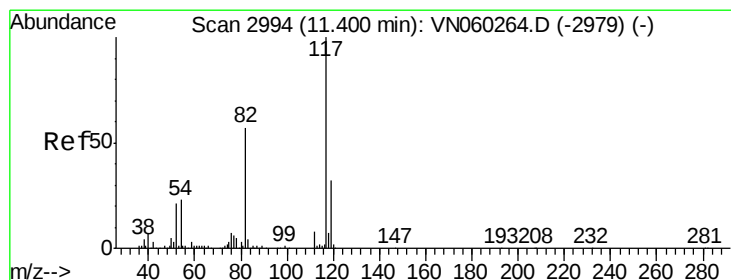
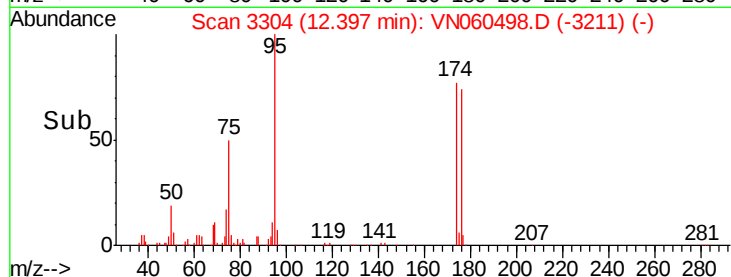
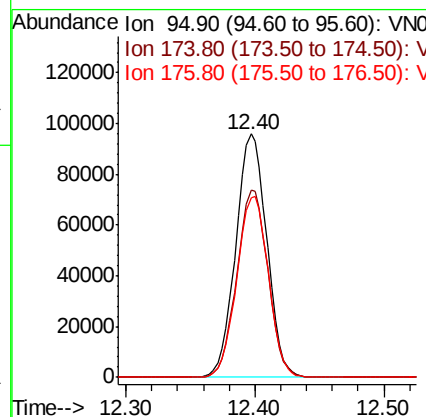
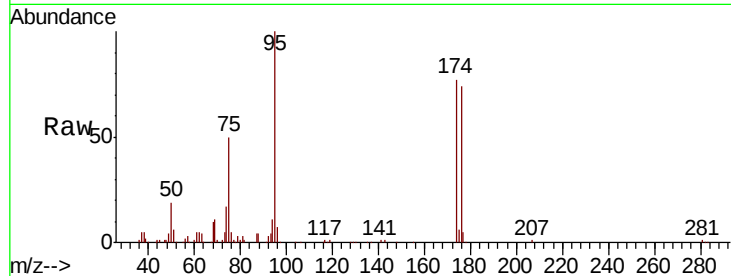




#62
4-Bromofluorobenzene
Concen: 53.577 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060498.D
Acq: 13 Mar 2020 13:33

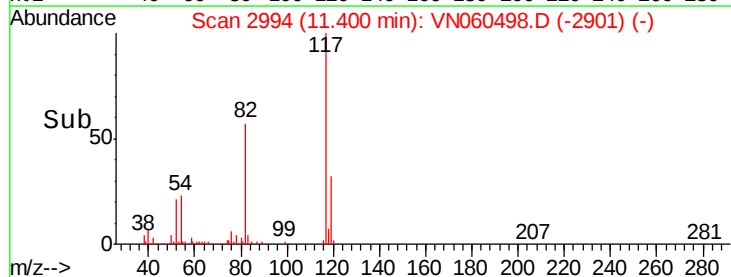
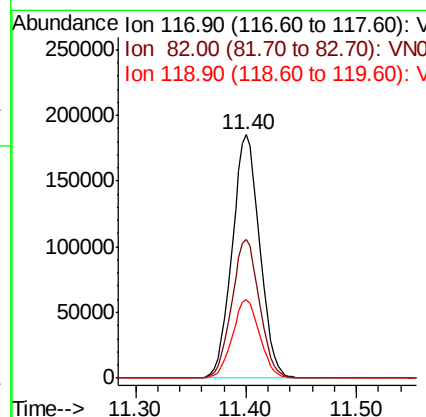
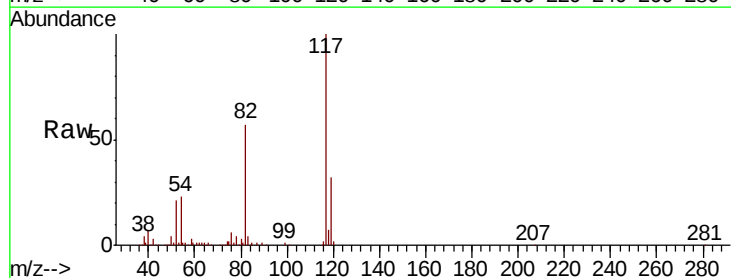
Instrument :
MSVOA_N
ClientSampleId :

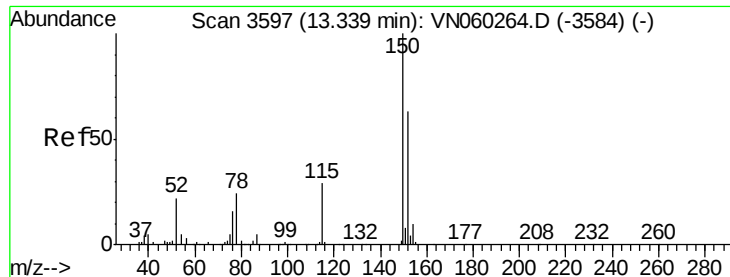
Tot Ion: 95 Resp: 160025
Ion Ratio Lower Upper
95 100
174 77.3 0.0 159.2
176 75.9 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060498.D
Acq: 13 Mar 2020 13:33

Tgt Ion: 117 Resp: 320127
Ion Ratio Lower Upper
117 100
82 57.1 45.8 68.6
119 32.1 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

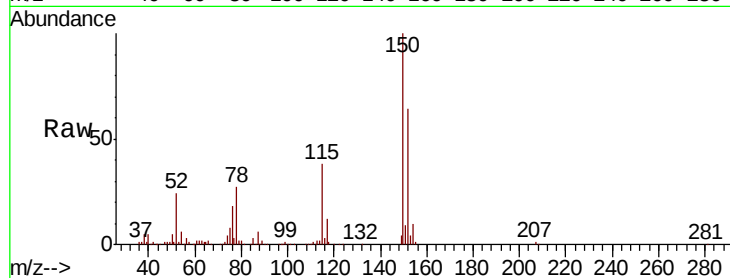
Tot Ion:152 Resp: 152159

Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

150 156.3 0.0 349.6

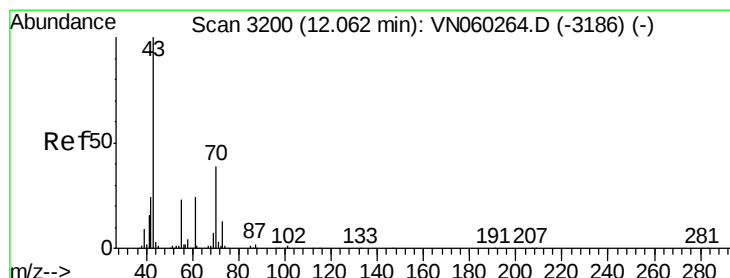
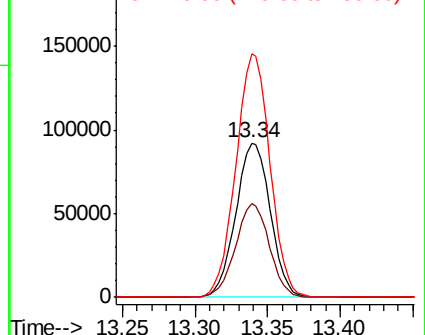
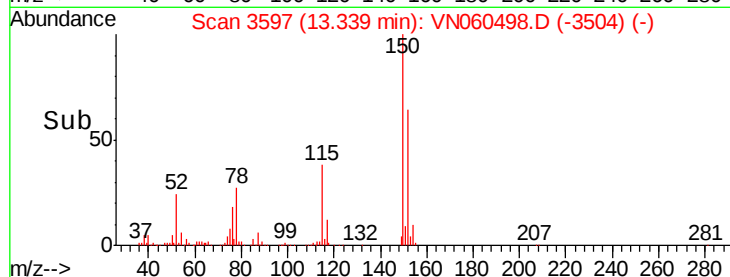


Abundance

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: 0.704 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Tgt Ion: 43 Resp: 3470

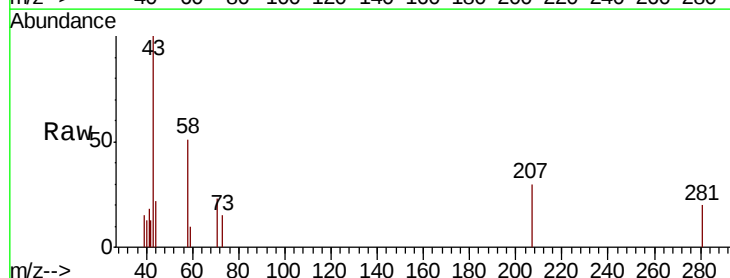
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



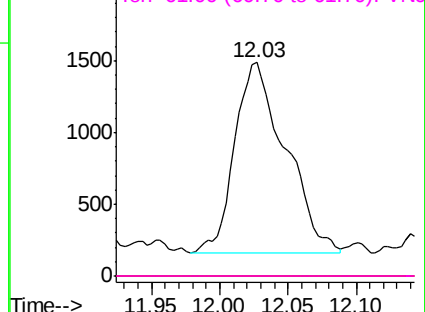
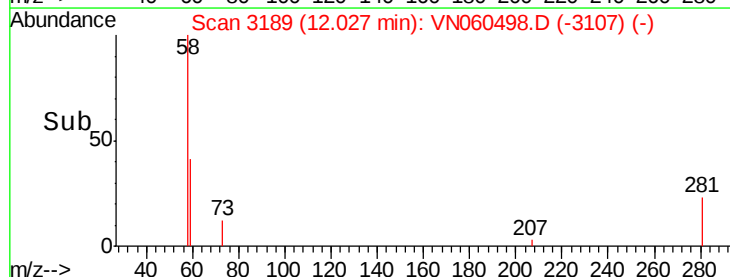
Abundance

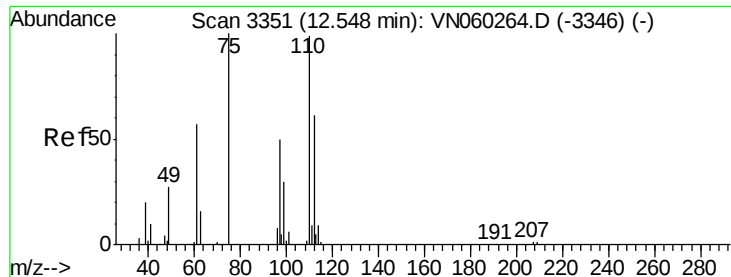
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.284 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

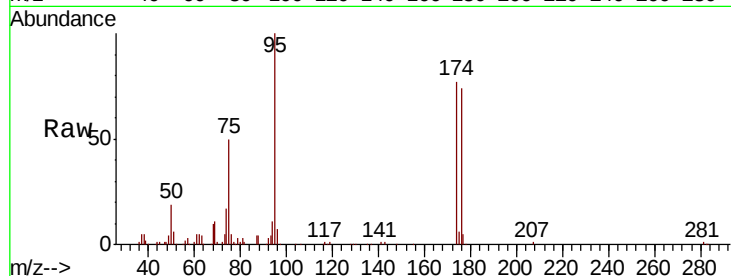
ClientSampleId :

Tot Ion: 75 Resp: 81069

Ion Ratio Lower Upper

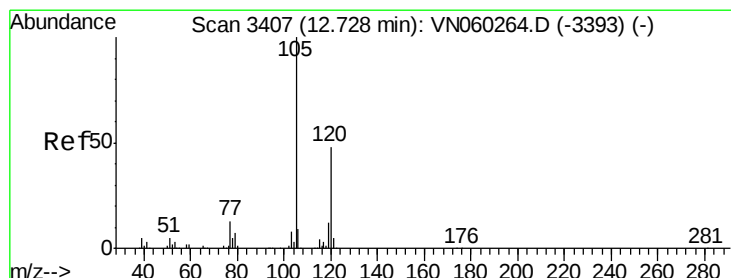
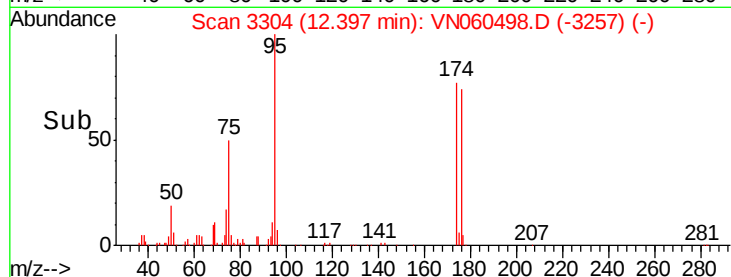
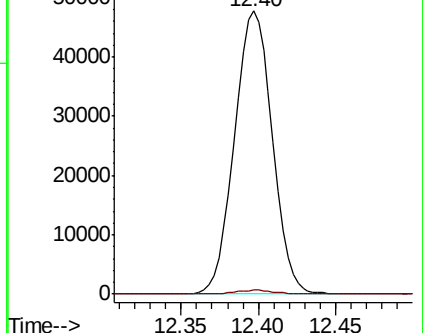
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060498.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060498.D (-3304) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.906 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060498.D

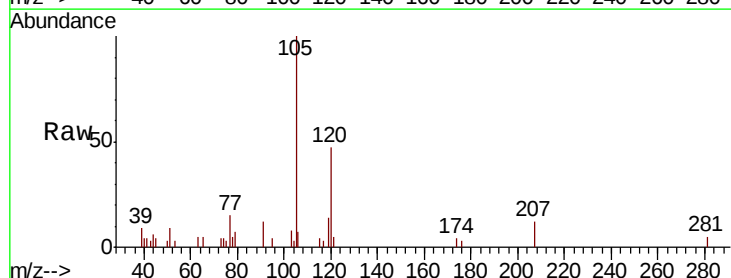
Acq: 13 Mar 2020 13:33

Tgt Ion: 105 Resp: 8600

Ion Ratio Lower Upper

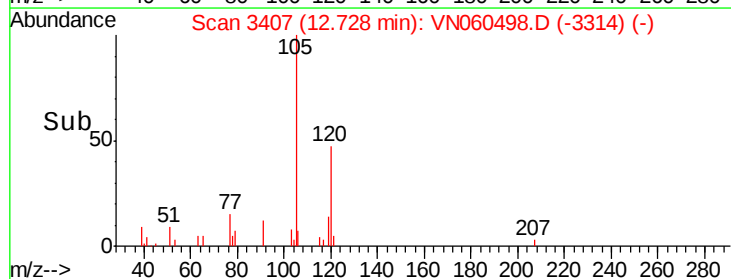
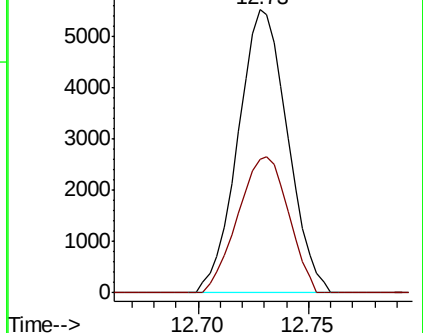
105 100

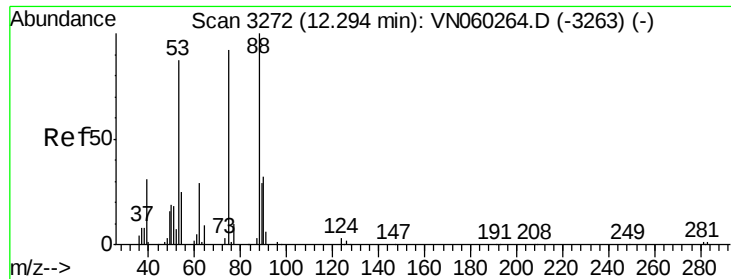
120 49.0 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060498.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN060498.D (-3393) (-)

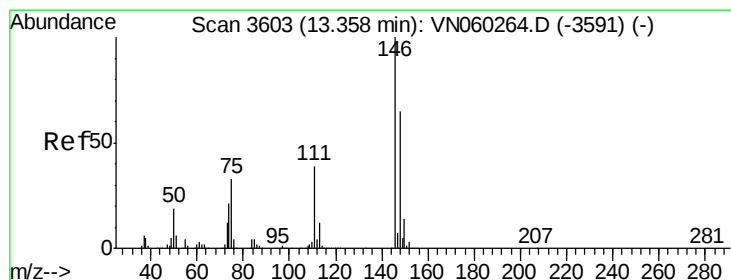
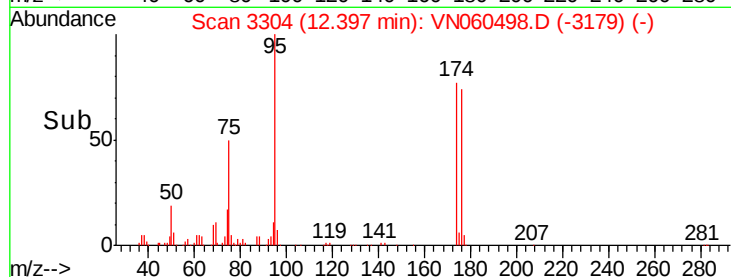
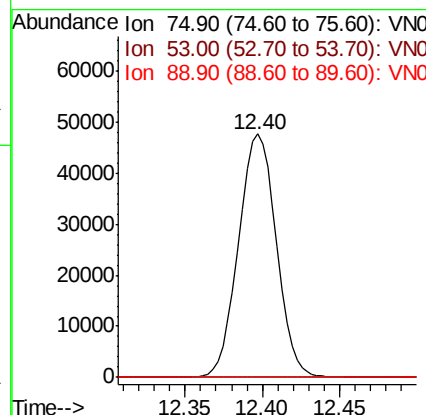
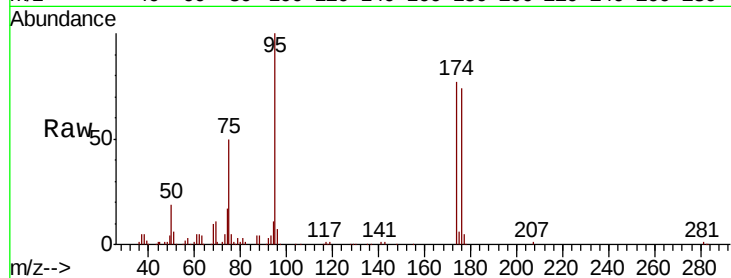




#81
trans-1,4-Dichloro-2-butene
Concen: 67.035 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060498.D
Acq: 13 Mar 2020 13:33

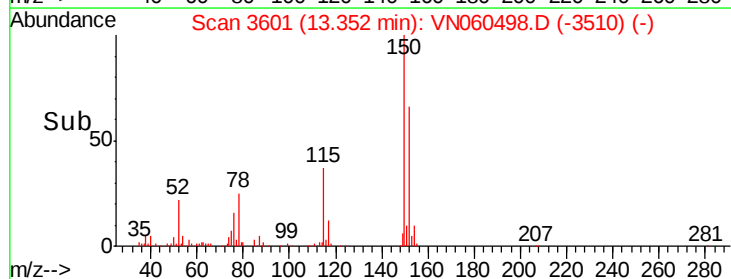
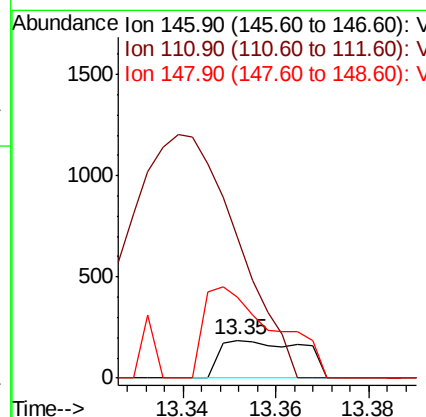
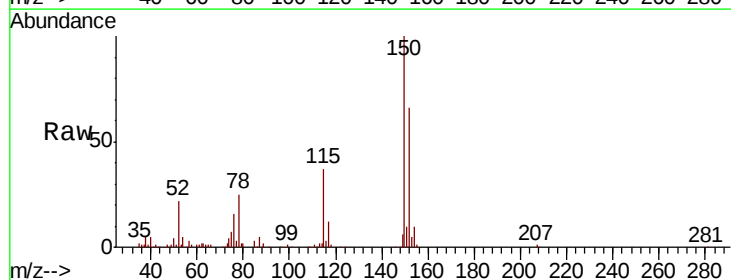
Instrument :
MSVOA_N
ClientSampleId :

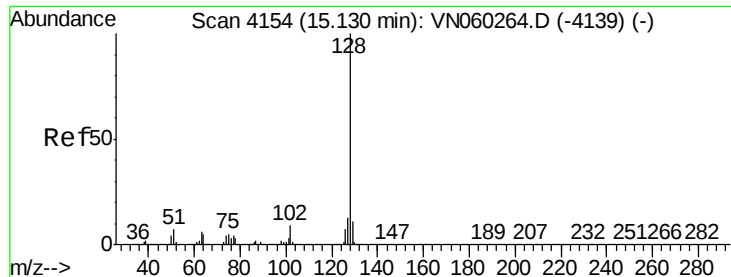
Tot Ion: 75 Resp: 81069
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 57.1 85.7#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.35 min Scan# 3601
Delta R.T. -0.01 min
Lab File: VN060498.D
Acq: 13 Mar 2020 13:33

Tgt Ion: 146 Resp: 228
Ion Ratio Lower Upper
146 100
111 0.0 19.8 59.4#
148 208.3 32.3 96.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060498.D

Acq: 13 Mar 2020 13:33

Instrument :

MSVOA_N

ClientSampleId :

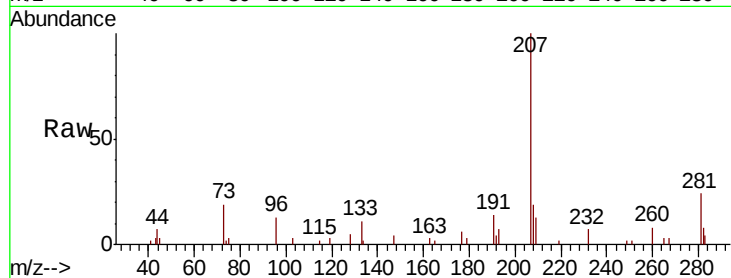
Tot Ion:128 Resp: 544

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

