

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060935.D
 Acq On : 14 Apr 2020 15:52
 Operator : JC/MD
 Sample : L2230-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-18

Quant Time: Apr 15 07:46:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	153398	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	259455	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	244226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	110565	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	101119	48.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.04%	
35) Dibromofluoromethane	7.56	113	77211	49.22	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.44%	
50) Toluene-d8	10.08	98	321692	50.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	12.40	95	121596	51.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.56%	

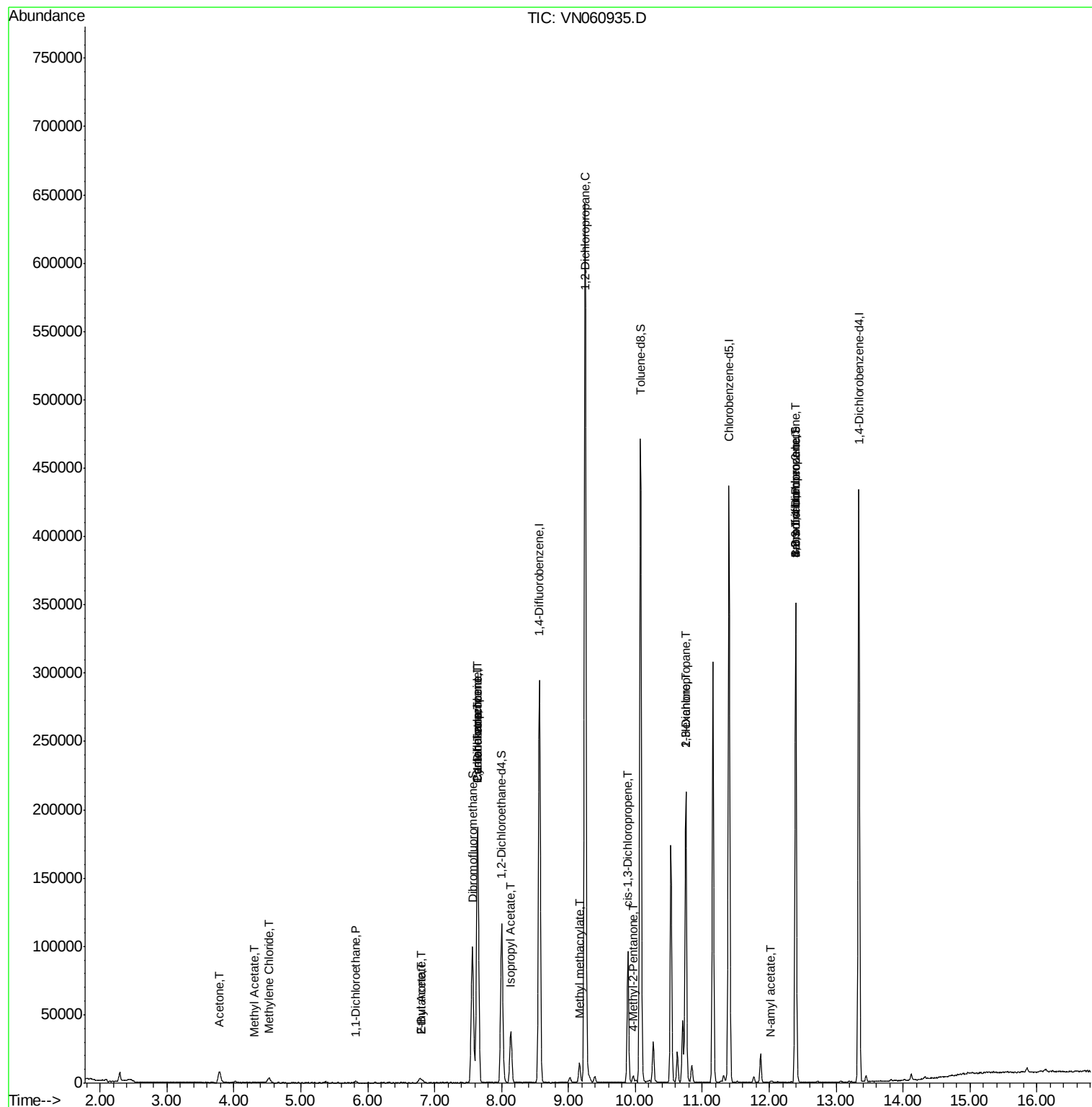
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	16053	21.521	ug/l	99
18) Methyl Acetate	4.30	43	1490	0.710	ug/l #	54
20) Methylene Chloride	4.53	84	2825	1.540	ug/l	90
24) 1,1-Dichloroethane	5.82	63	2171	0.645	ug/l #	85
25) 2-Butanone	6.81	43	4830	4.002	ug/l #	87
31) Cyclohexane	7.64	56	3319	0.979	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12224	4.866	ug/l #	49
37) Ethyl Acetate	6.81	43	4830	1.779	ug/l #	70
38) Carbon Tetrachloride	7.64	117	15040	6.679	ug/l #	16
43) Isopropyl Acetate	8.14	43	44900	10.029	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	694	0.347	ug/l #	43
48) Methyl methacrylate	9.16	41	2341	1.174	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3284	1.289	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	17148	5.413	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2157	0.705	ug/l #	42
59) 2-Hexanone	10.75	43	32800	17.873	ug/l #	51
71) Bromoform	12.40	173	212	1.821	ug/l #	1
74) N-amyl acetate	12.02	43	1383	0.361	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	62551	26.218	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	62551	67.337	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampled :

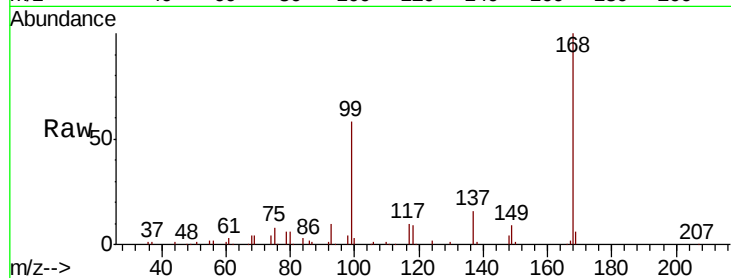
TP-18

Tot Ion:168 Resp: 153398

Ion Ratio Lower Upper

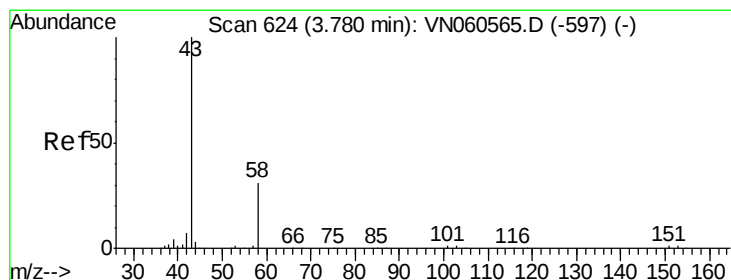
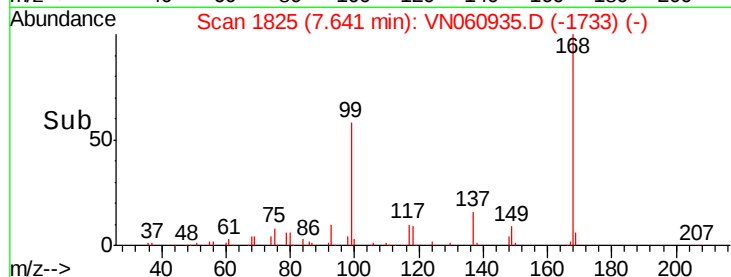
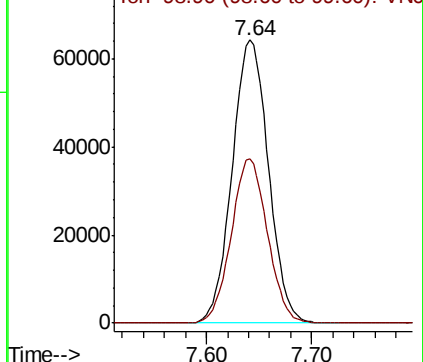
168 100

99 58.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 21.521 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060935.D

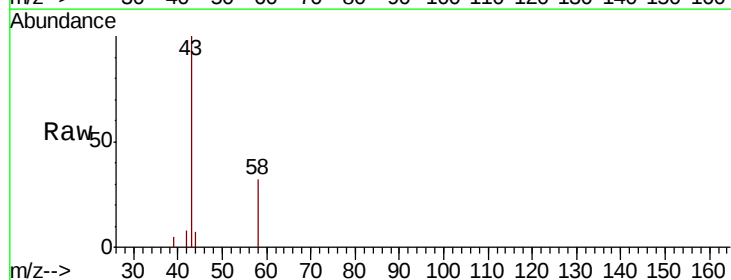
Acq: 14 Apr 2020 15:52

Tgt Ion: 43 Resp: 16053

Ion Ratio Lower Upper

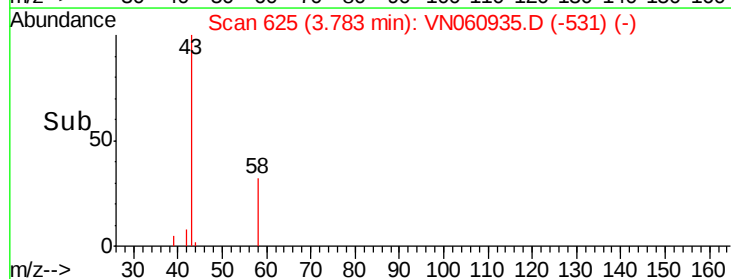
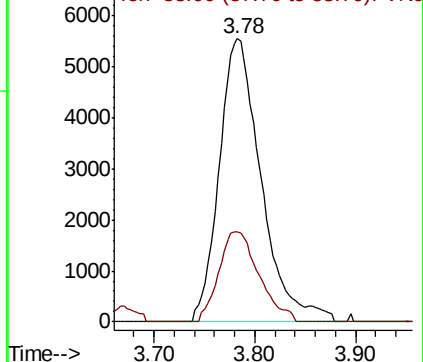
43 100

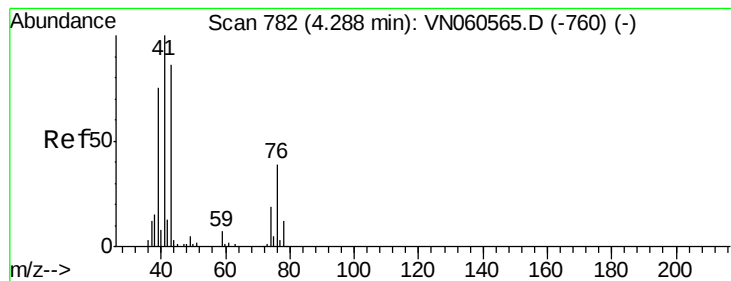
58 31.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#18

Methvl Acetate

Concen: 0.710 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampled :

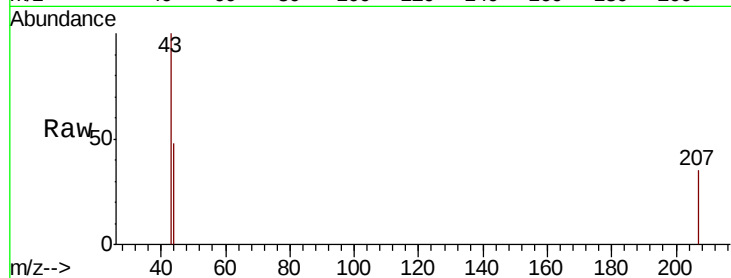
TP-18

Tot Ion: 43 Resp: 1490

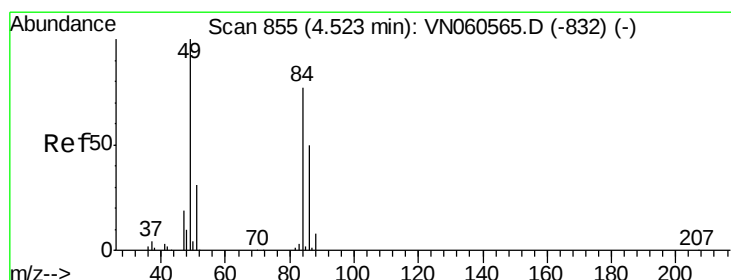
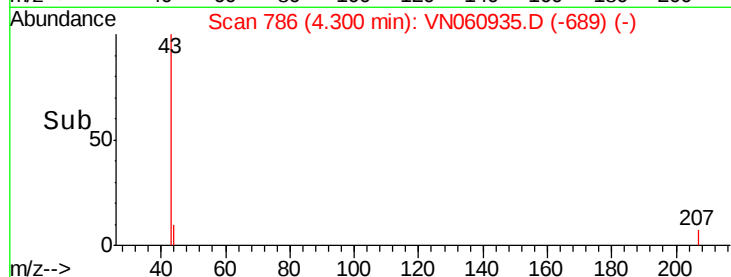
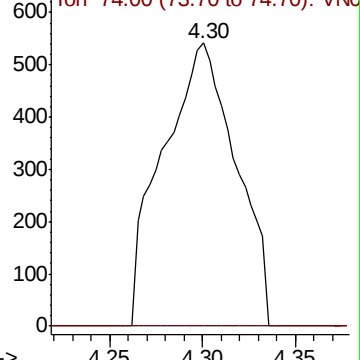
Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060935.D (-689) (-)



#20

Methylene Chloride

Concen: 1.540 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Tgt Ion: 84 Resp: 2825

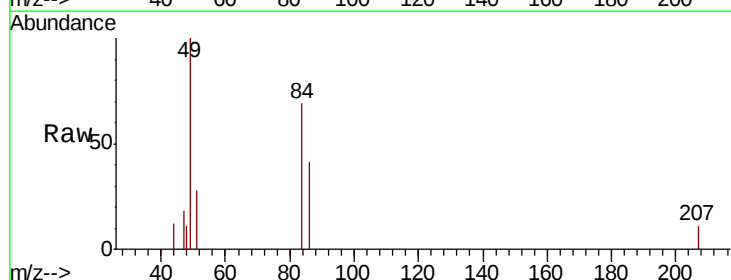
Ion Ratio Lower Upper

84 100

49 144.1 103.3 154.9

51 40.8 31.6 47.4

86 58.5 52.0 78.0

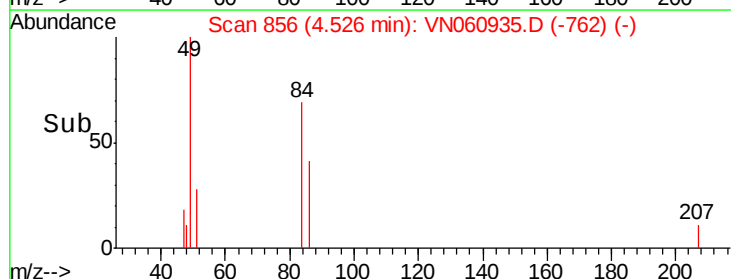
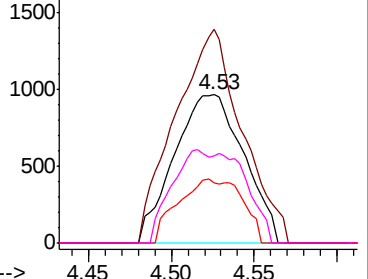


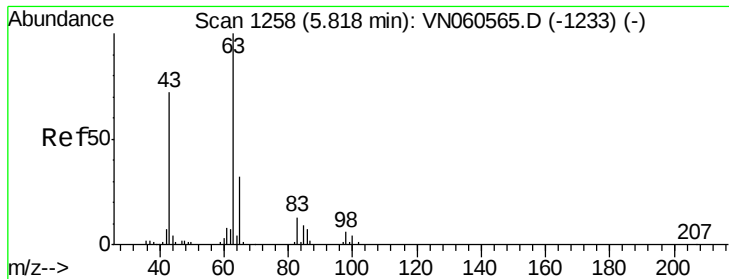
Abundance Ion 83.90 (83.60 to 84.60): VN060935.D (-762) (-)

Ion 48.90 (48.60 to 49.60): VN060935.D (-762) (-)

Ion 50.90 (50.60 to 51.60): VN060935.D (-762) (-)

Ion 85.90 (85.60 to 86.60): VN060935.D (-762) (-)





#24

1,1-Dichloroethane

Concen: 0.645 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. -0.00 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampled :

TP-18

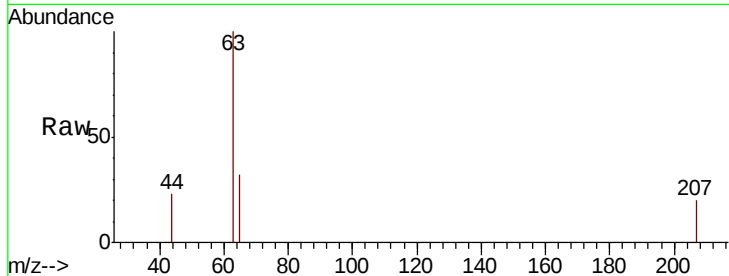
Tot Ion: 63 Resp: 2171

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.7#

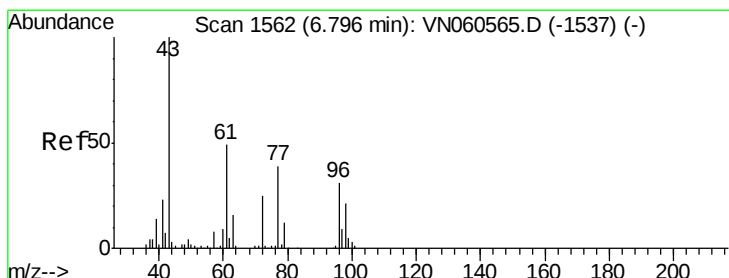
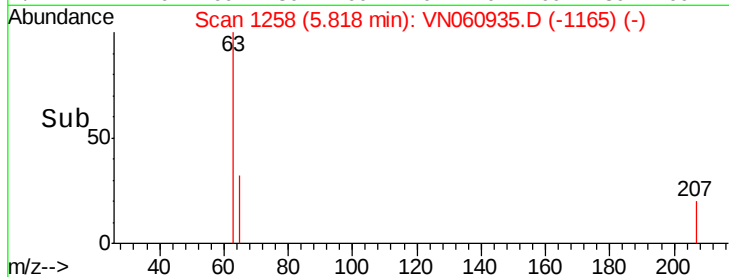
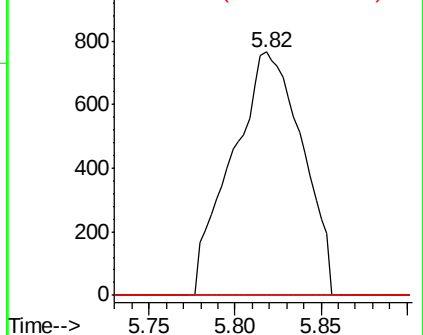
100 0.0 1.8 5.5#



Abundance Ion 62.90 (62.60 to 63.60): VN060935.D (-1165) (-)

Ion 97.90 (97.60 to 98.60): VN060935.D (-1165) (-)

Ion 99.90 (99.60 to 100.60): VN060935.D (-1165) (-)



#25

2-Butanone

Concen: 4.002 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060935.D

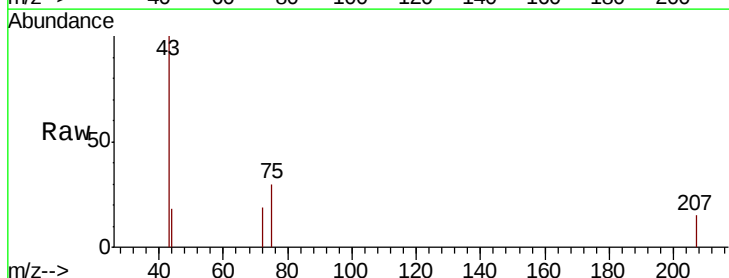
Acq: 14 Apr 2020 15:52

Tgt Ion: 43 Resp: 4830

Ion Ratio Lower Upper

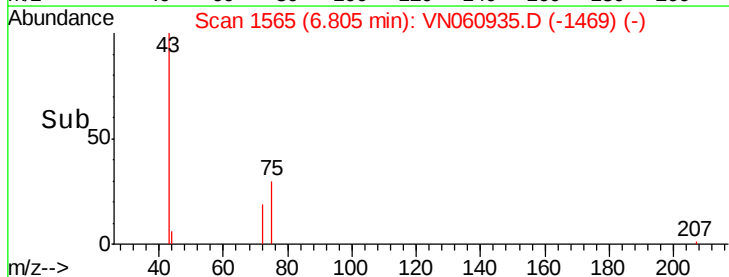
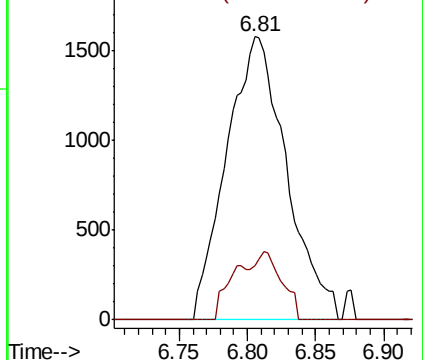
43 100

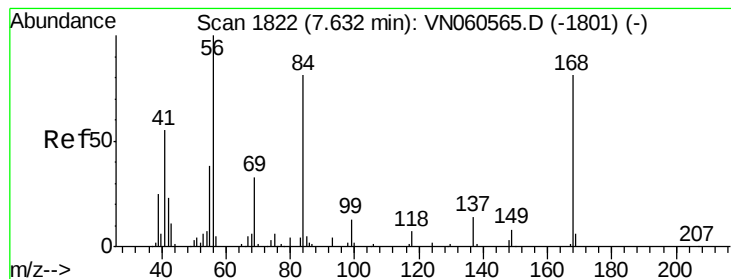
72 19.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN060935.D (-1469) (-)

Ion 72.00 (71.70 to 72.70): VN060935.D (-1469) (-)





#31

Cyclohexane

Concen: 0.979 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampled :

TP-18

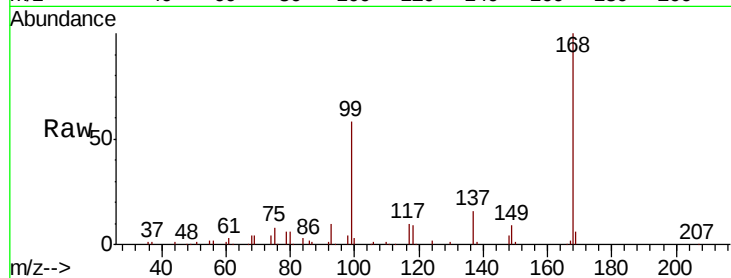
Tot Ion: 56 Resp: 3319

Ion Ratio Lower Upper

56 100

69 179.8 26.6 40.0#

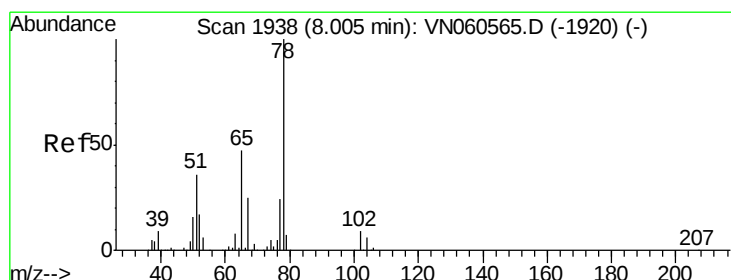
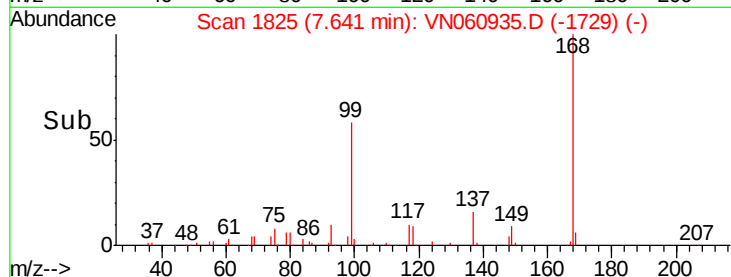
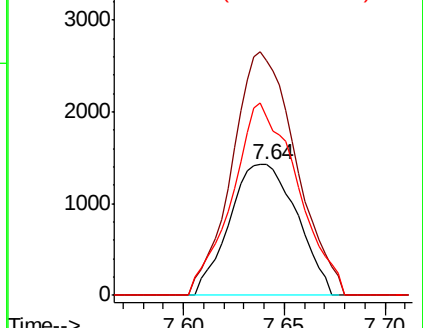
84 136.2 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060935.D (-1729) (-)

Ion 69.00 (68.70 to 69.70): VN060935.D (-1729) (-)

Ion 84.00 (83.70 to 84.70): VN060935.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.019 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060935.D

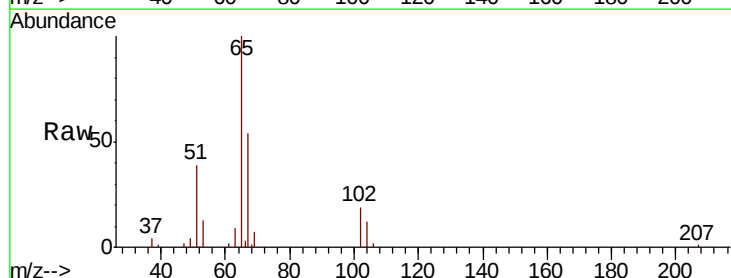
Acq: 14 Apr 2020 15:52

Tgt Ion: 65 Resp: 101119

Ion Ratio Lower Upper

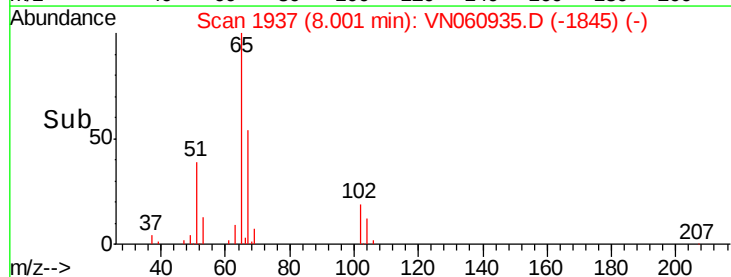
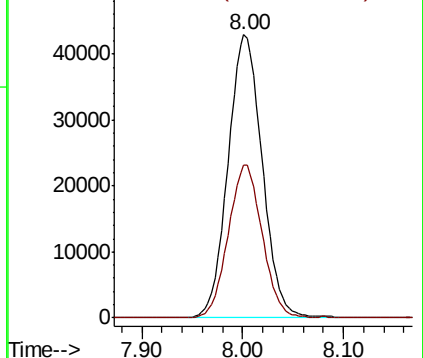
65 100

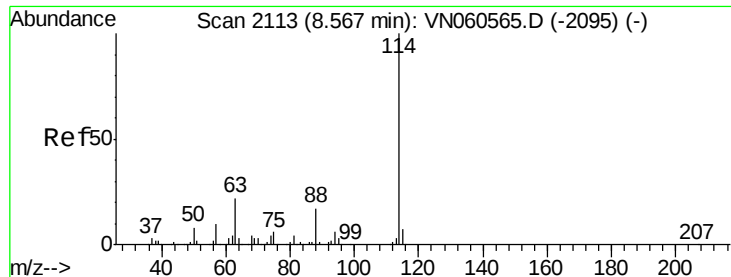
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060935.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060935.D (-1845) (-)

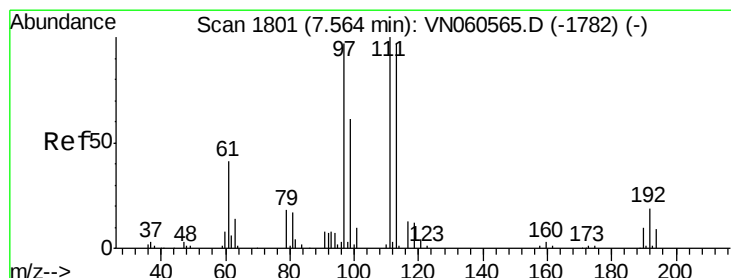
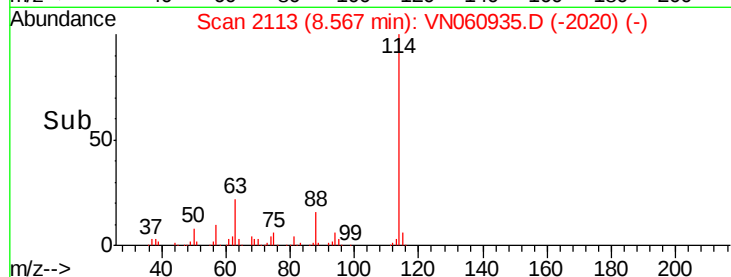
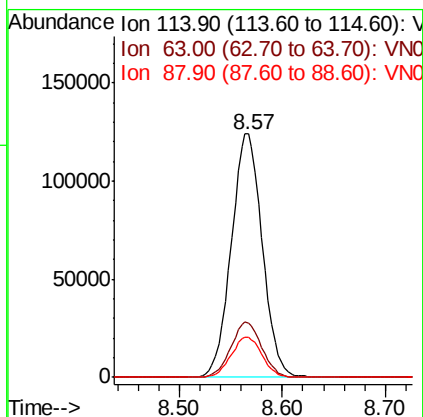
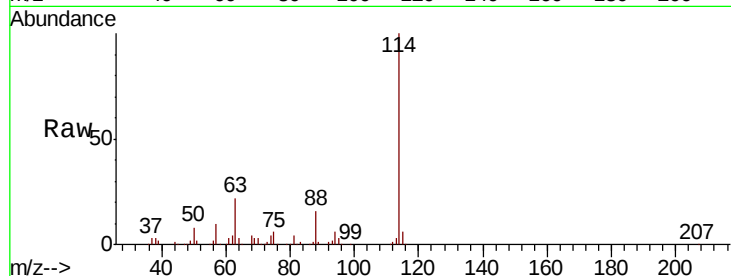




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060935.D
 Acq: 14 Apr 2020 15:52

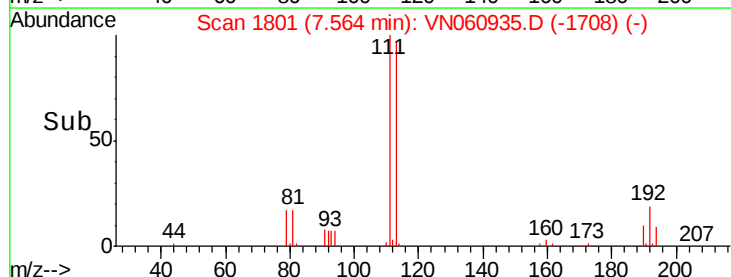
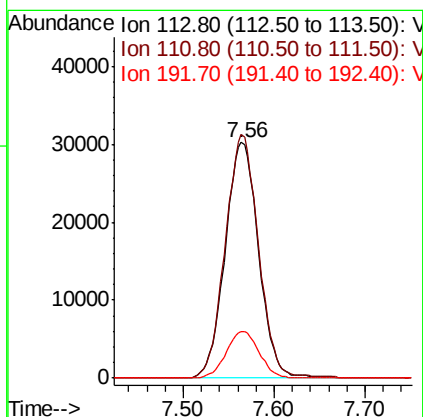
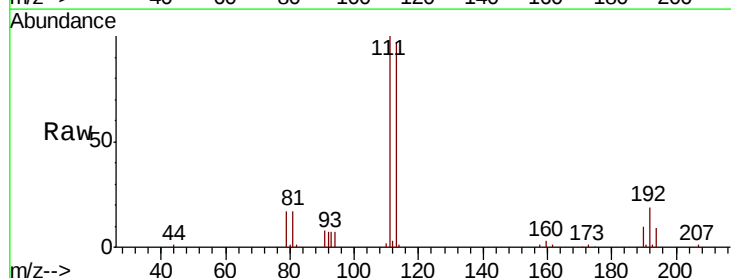
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-18

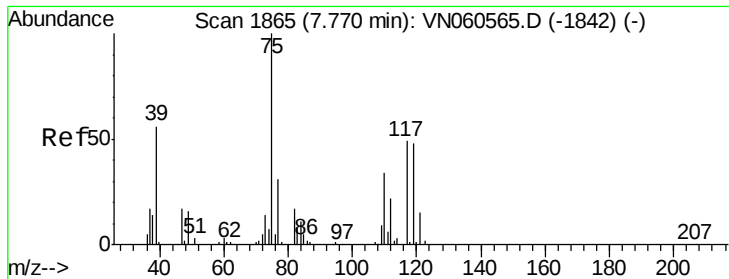
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	43.8
88	16.4	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 49.215 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060935.D
 Acq: 14 Apr 2020 15:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.9	124.3
192	19.4	15.8	23.8





#36

1,1-Dichloropropene

Concen: 4.866 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampled :

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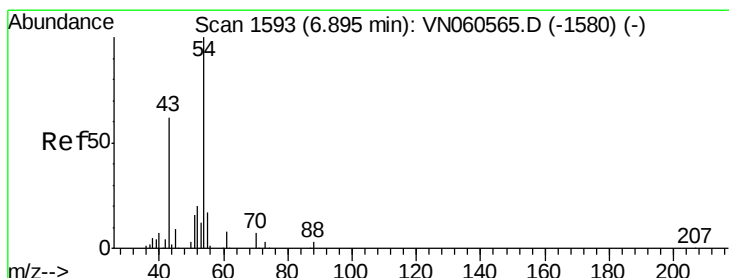
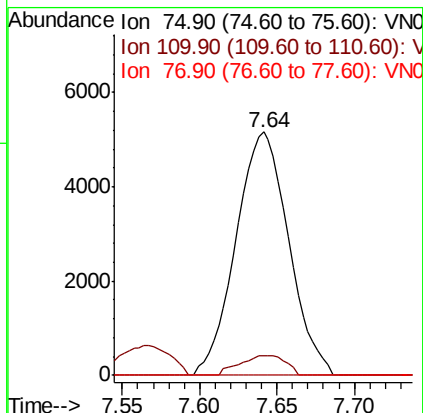
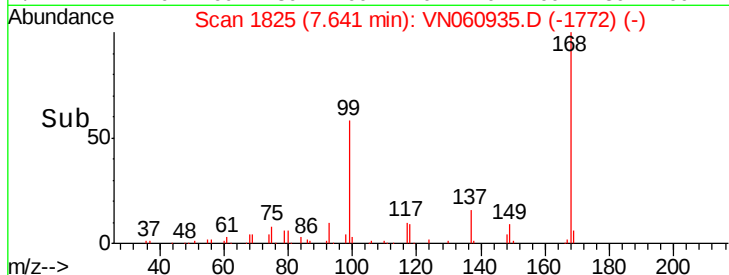
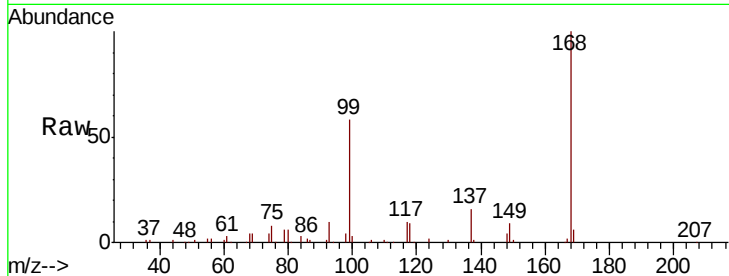
Tot Ion: 75 Resp: 12224

Ion Ratio Lower Upper

75 100

110 7.1 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 1.779 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

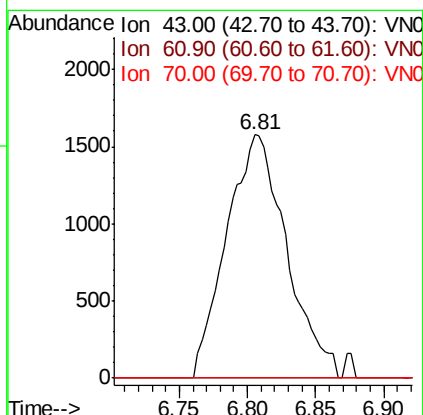
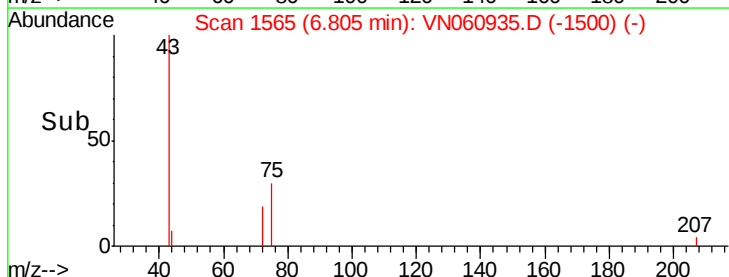
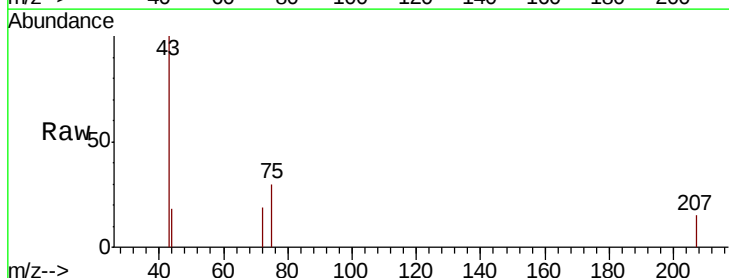
Tgt Ion: 43 Resp: 4830

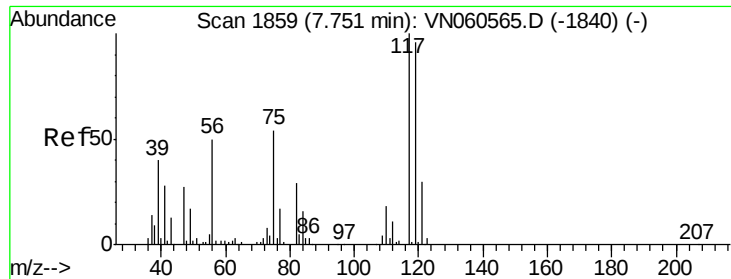
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.679 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampled :

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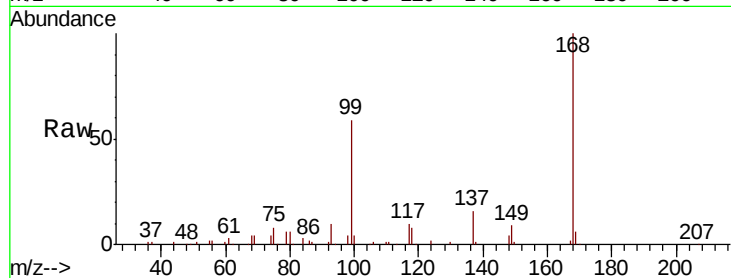
Tot Ion:117 Resp: 15040

Ion Ratio Lower Upper

117 100

119 4.2 76.2 114.2#

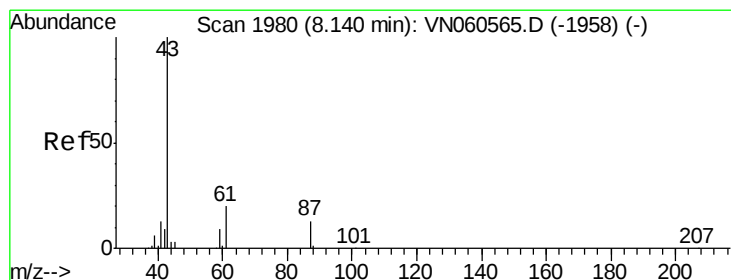
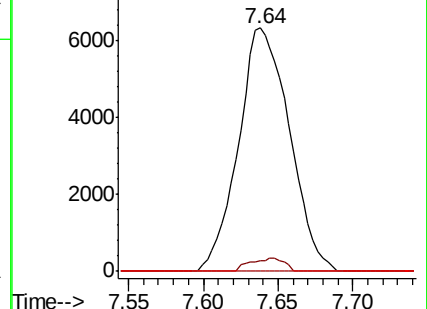
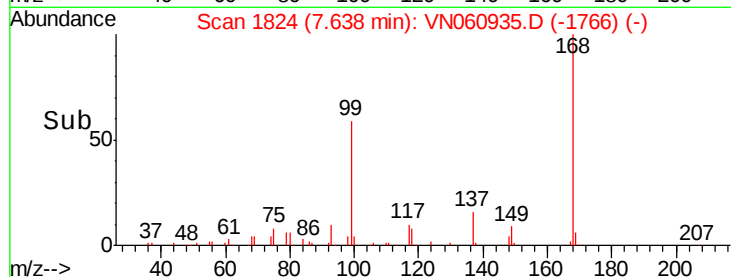
121 0.0 23.7 35.5#



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: 10.029 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

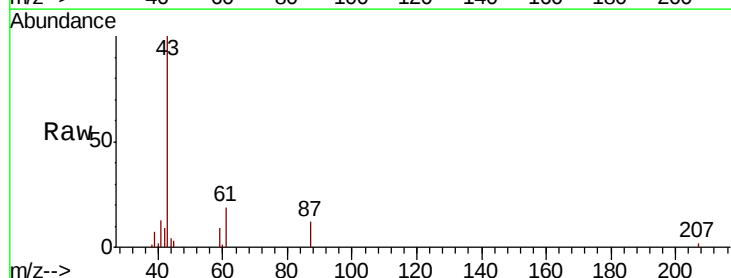
Tgt Ion: 43 Resp: 44900

Ion Ratio Lower Upper

43 100

61 19.2 20.7 31.1#

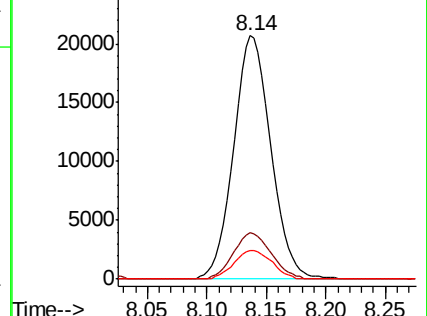
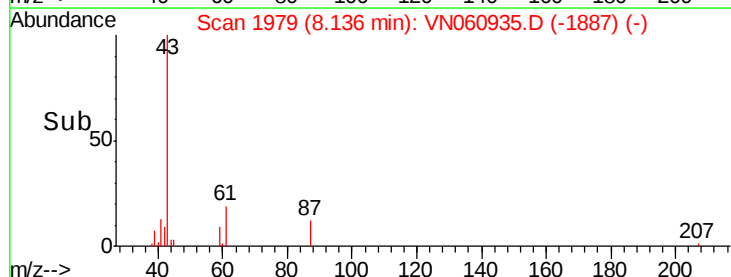
87 11.9 9.8 14.8

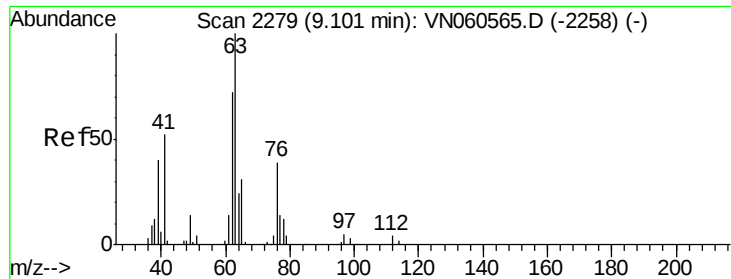


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.347 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampled :

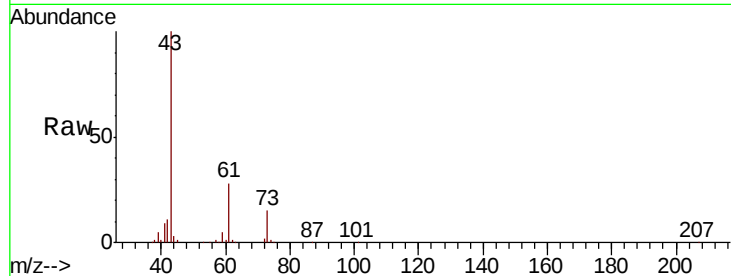
TP-18

Tot Ion: 63 Resp: 694

Ion Ratio Lower Upper

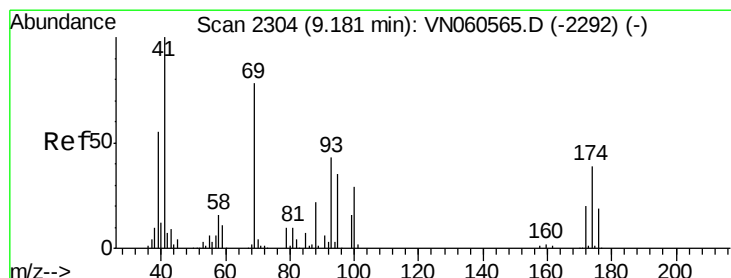
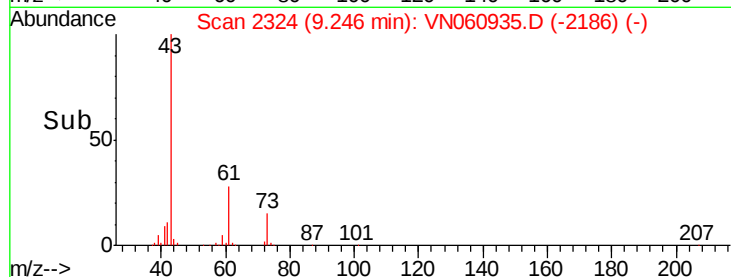
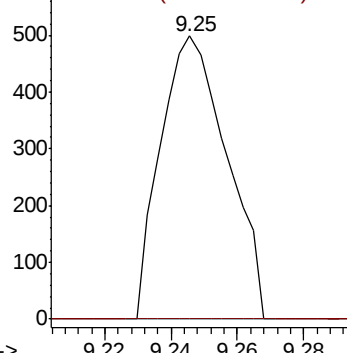
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.174 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

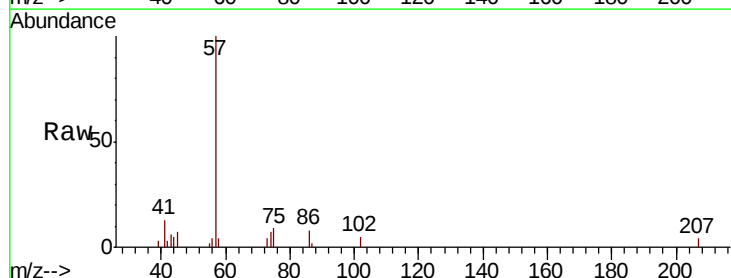
Tgt Ion: 41 Resp: 2341

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

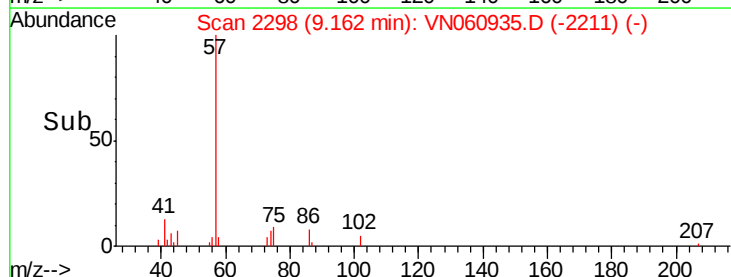
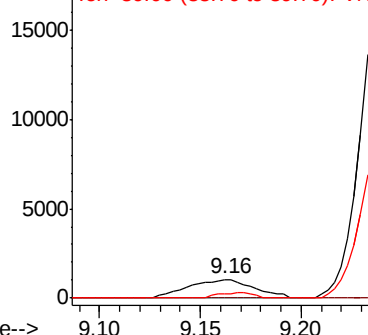
39 0.0 44.0 66.0#

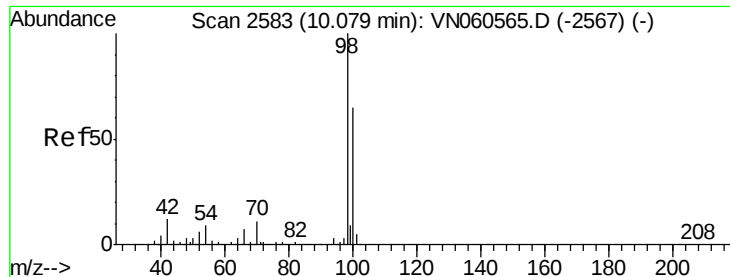


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

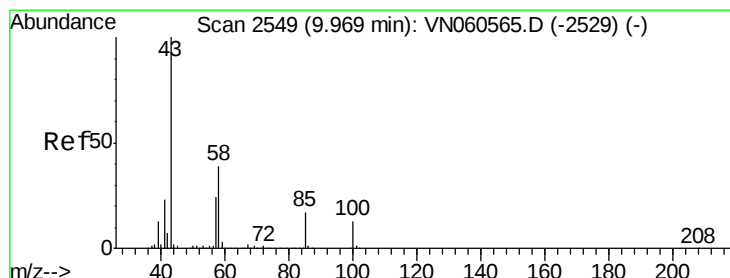
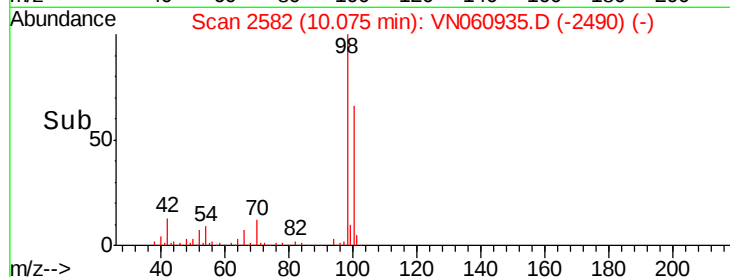
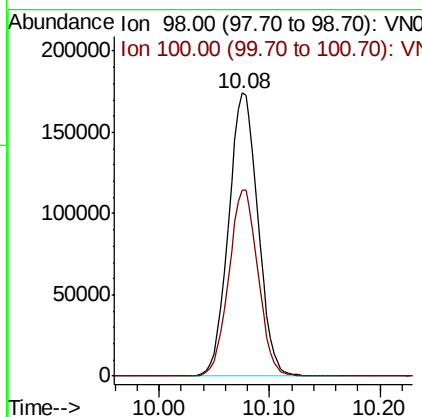
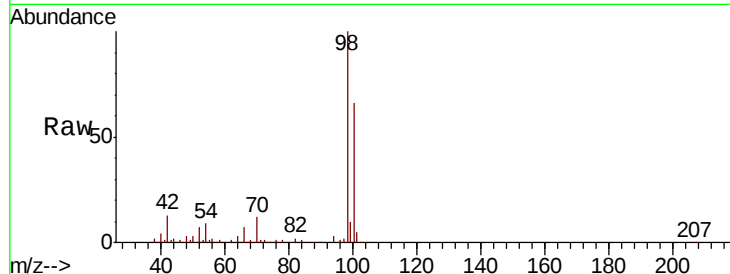




#50
Toluene-d8
Concen: 50.201 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060935.D
Acq: 14 Apr 2020 15:52

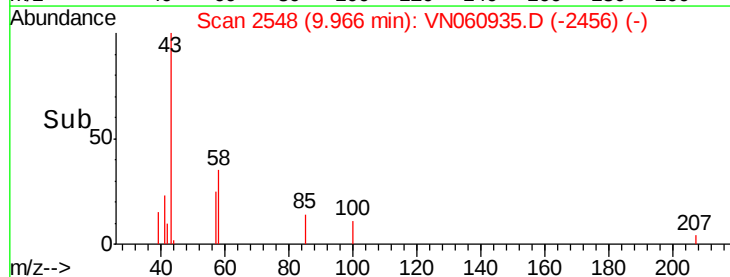
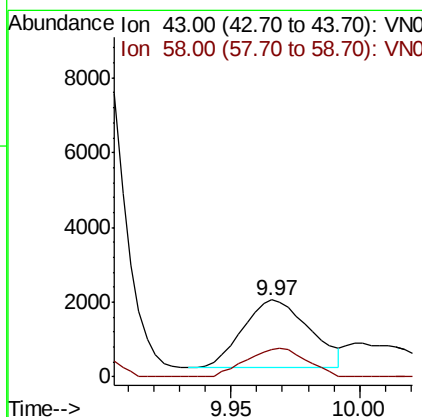
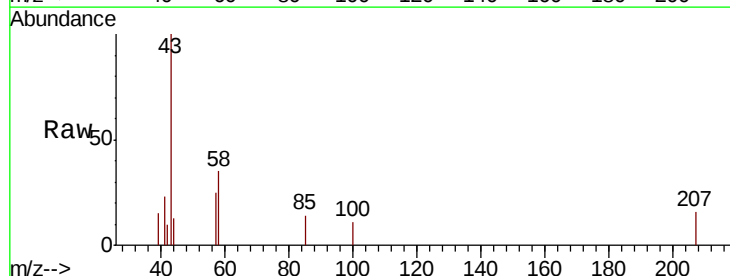
Instrument :
MSVOA_N
ClientSampled :
TP-18

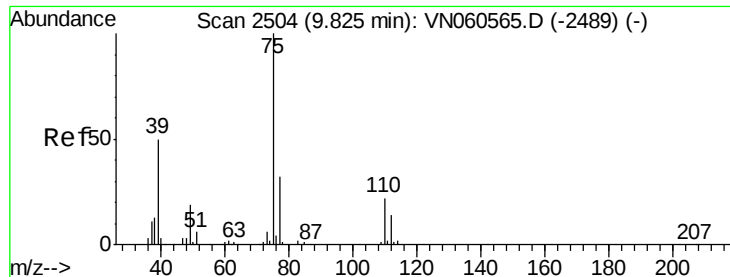
Tot Ion: 98 Resp: 321692
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.289 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060935.D
Acq: 14 Apr 2020 15:52

Tgt Ion: 43 Resp: 3284
Ion Ratio Lower Upper
43 100
58 37.7 30.8 46.2

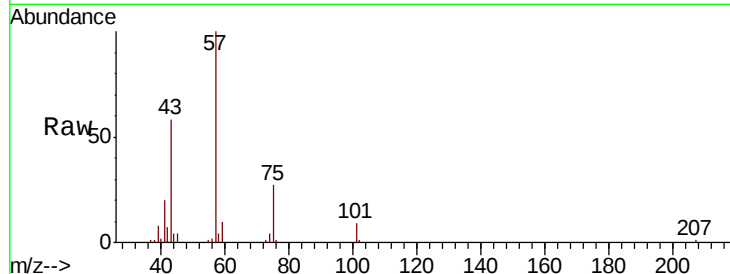




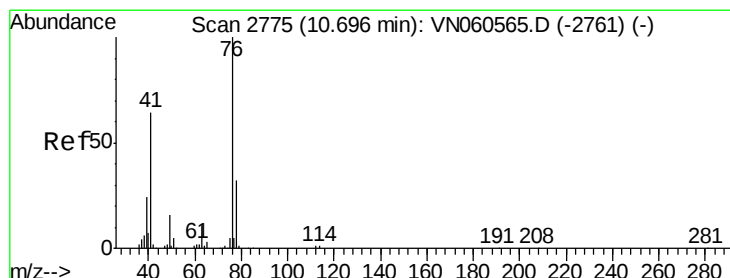
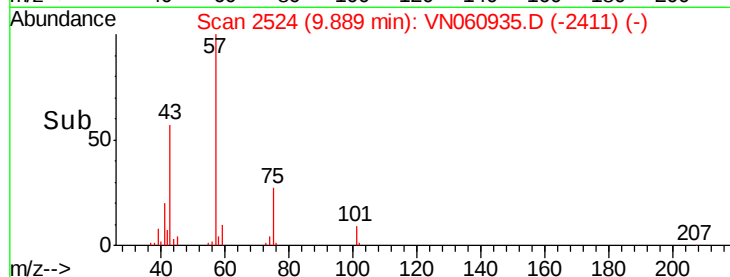
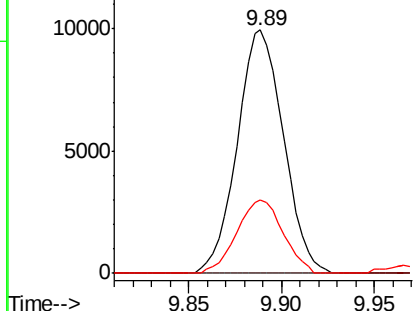
#54
 cis-1,3-Dichloropropene
 Concen: 5.413 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060935.D
 Acq: 14 Apr 2020 15:52

Instrument :
 MSVOA_N
 ClientSampled :
 TP-18

Tot Ion: 75 Resp: 17148
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 30.0 40.2 60.4#

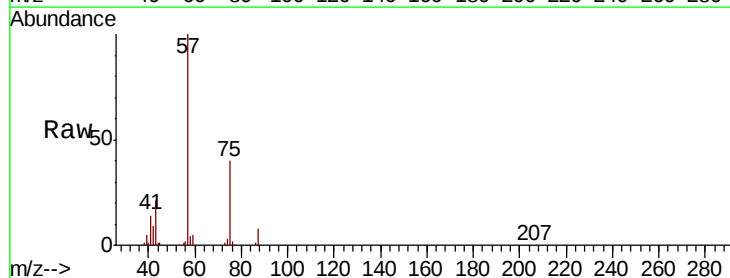


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

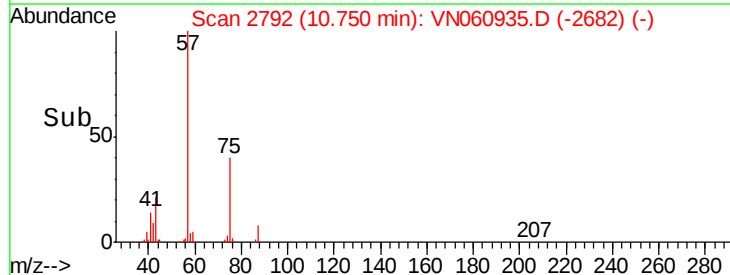
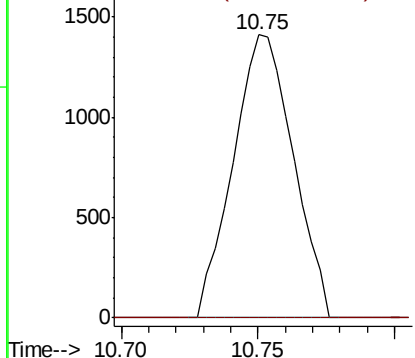


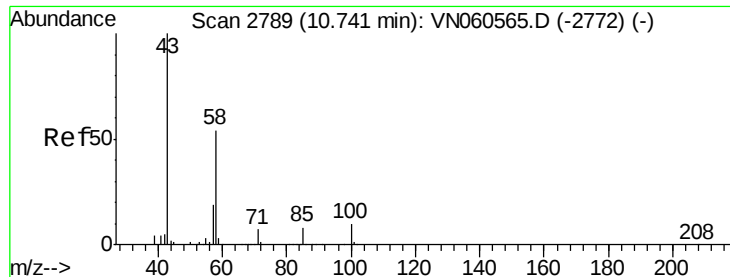
#57
 1,3-Dichloropropane
 Concen: 0.705 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060935.D
 Acq: 14 Apr 2020 15:52

Tgt Ion: 76 Resp: 2157
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

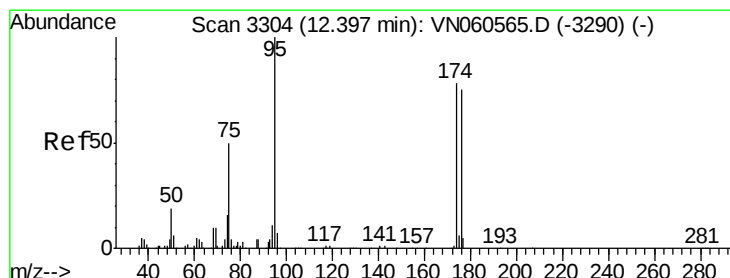
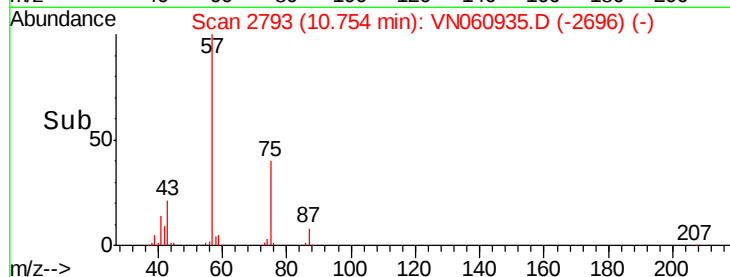
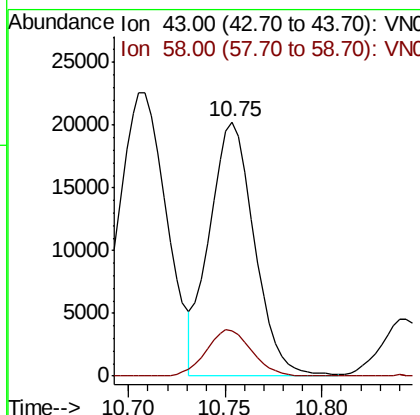
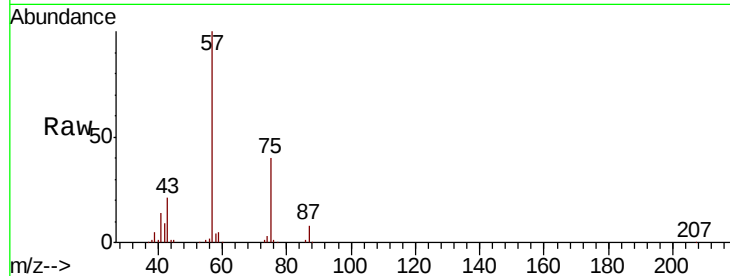




#59
2-Hexanone
Concen: 17.873 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060935.D
Acq: 14 Apr 2020 15:52

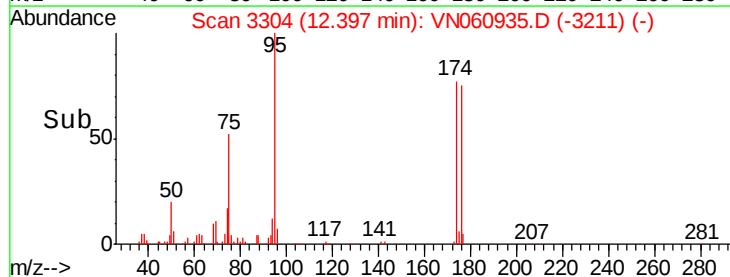
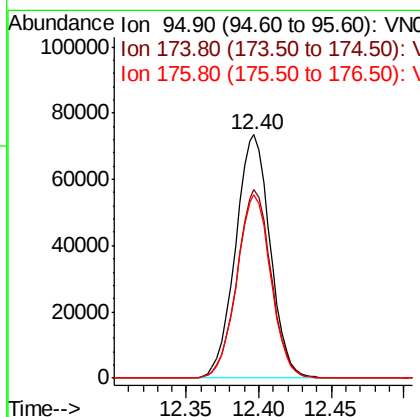
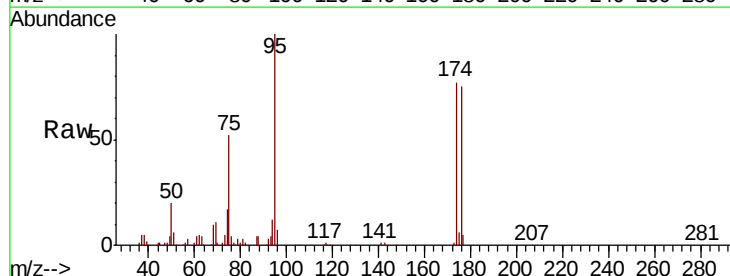
Instrument :
MSVOA_N
ClientSampled :
TP-18

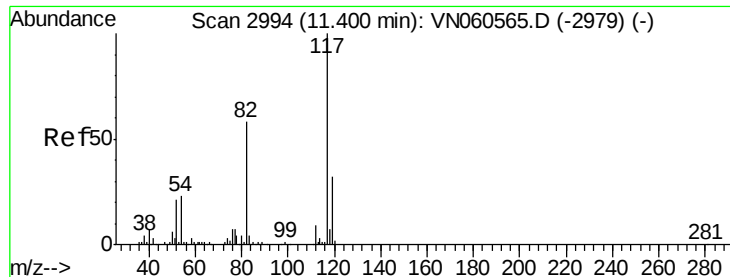
Tot Ion: 43 Resp: 32800
Ion Ratio Lower Upper
43 100
58 18.5 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.776 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060935.D
Acq: 14 Apr 2020 15:52

Tgt Ion: 95 Resp: 121596
Ion Ratio Lower Upper
95 100
174 76.4 0.0 157.6
176 74.2 0.0 150.6

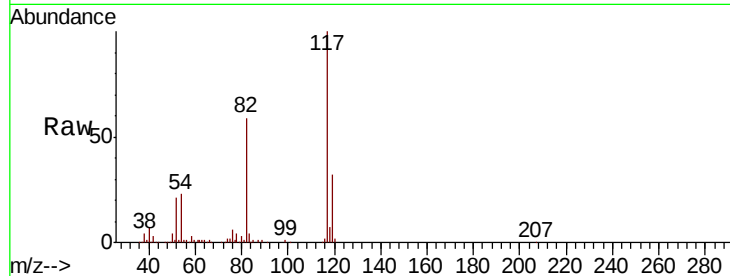




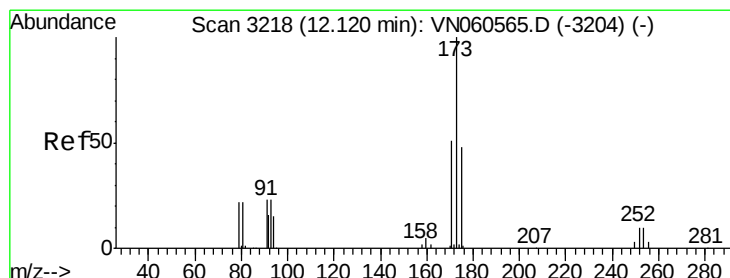
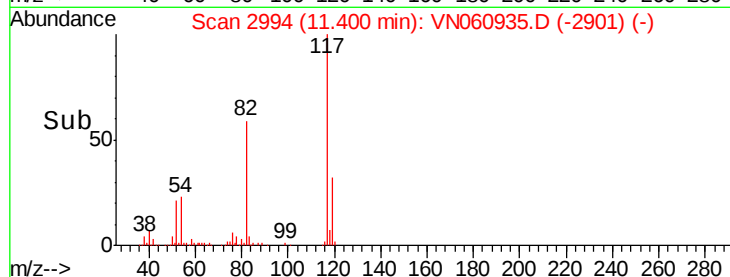
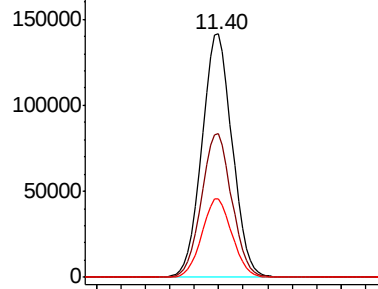
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060935.D
Acq: 14 Apr 2020 15:52

Instrument :
MSVOA_N
ClientSampleId :
TP-18

Tot Ion:117 Resp: 244226
Ion Ratio Lower Upper
117 100
82 58.9 46.7 70.1
119 32.3 25.5 38.3

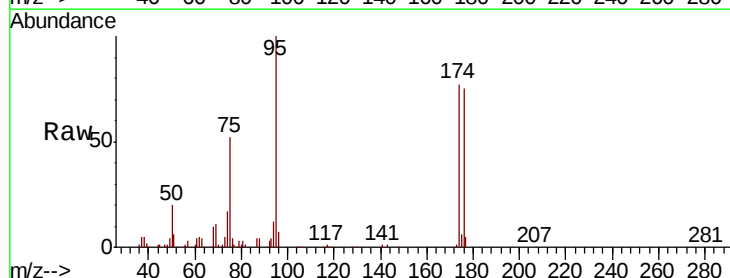


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

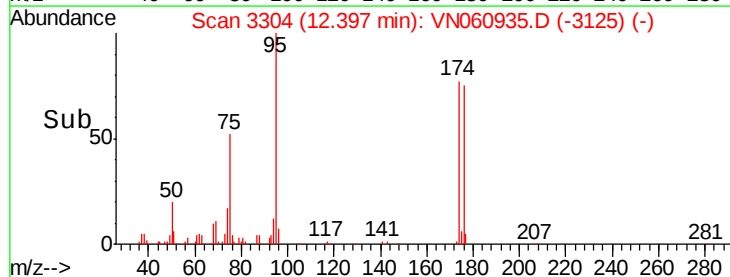
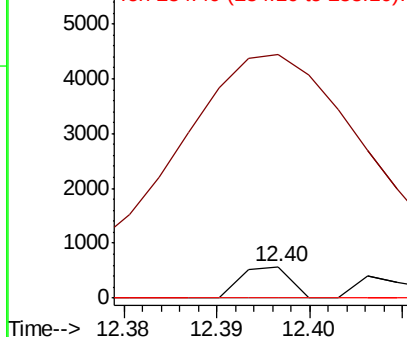


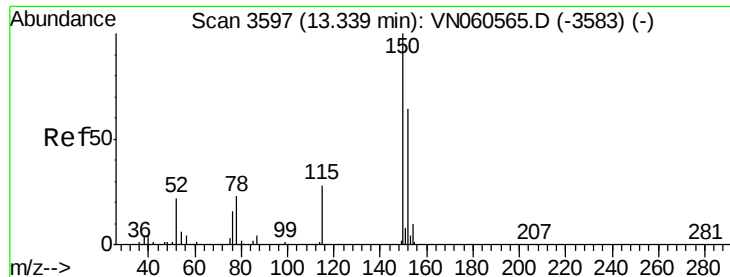
#71
Bromoform
Concen: 1.821 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060935.D
Acq: 14 Apr 2020 15:52

Tgt Ion:173 Resp: 212
Ion Ratio Lower Upper
173 100
175 2899.1 24.1 72.4#
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: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

TP-18

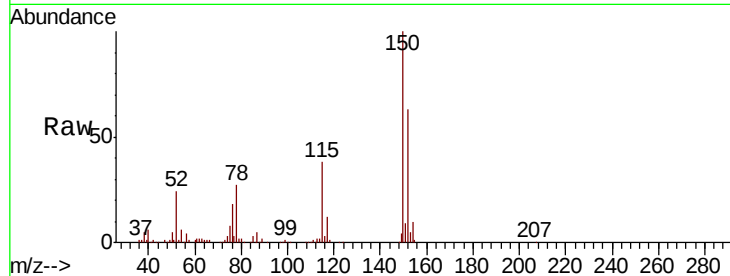
Tot Ion:152 Resp: 110565

Ion Ratio Lower Upper

152 100

115 61.2 30.2 90.6

150 158.5 0.0 350.2

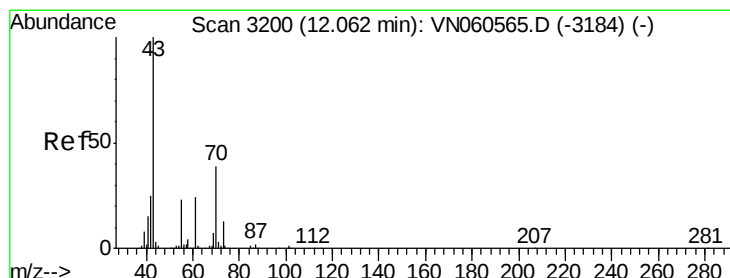
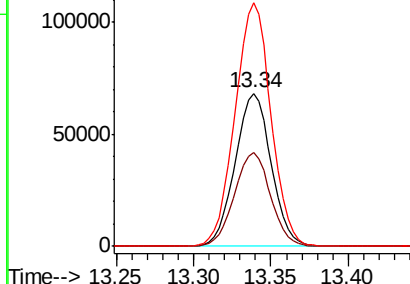
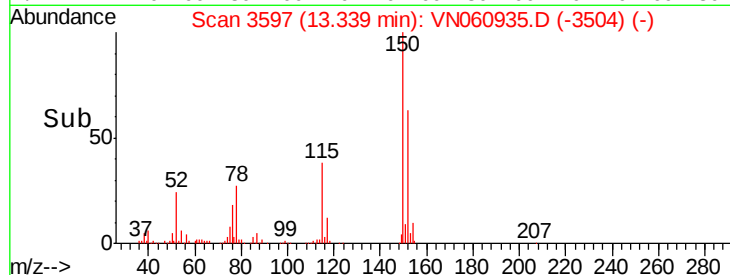


Abundance

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: 0.361 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.05 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Tgt Ion: 43 Resp: 1383

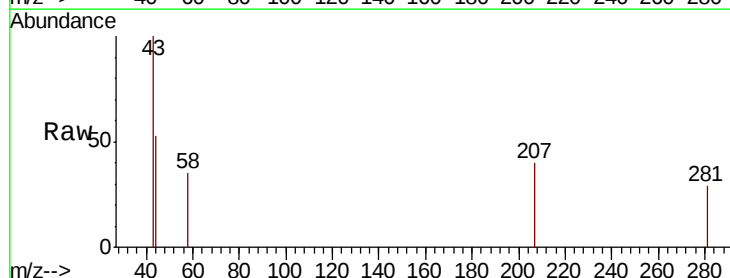
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#



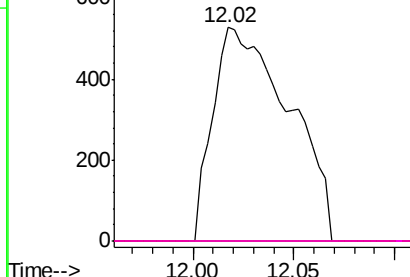
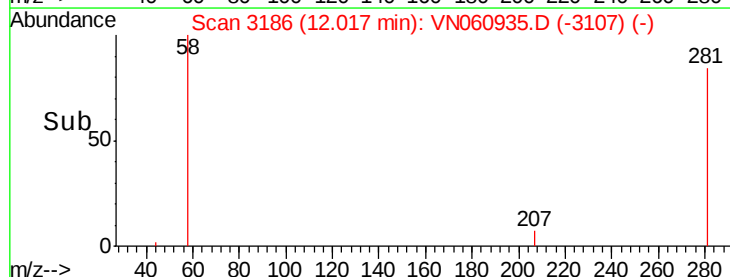
Abundance

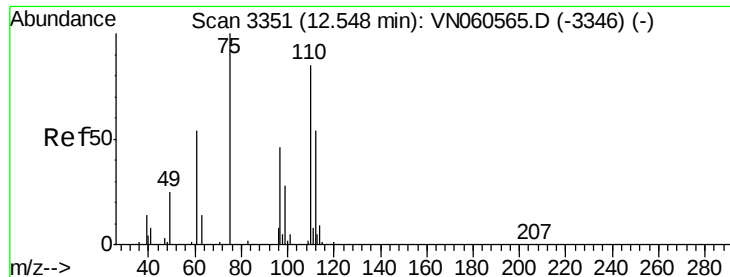
Ion 43.00 (42.70 to 43.70): VN0

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: 26.218 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

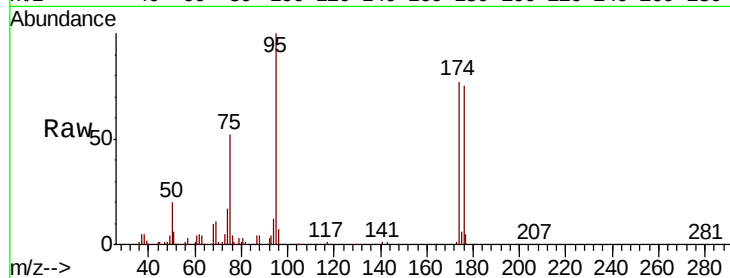
TP-18

Tot Ion: 75 Resp: 62551

Ion Ratio Lower Upper

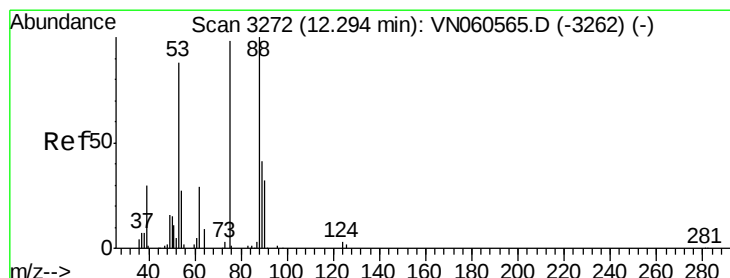
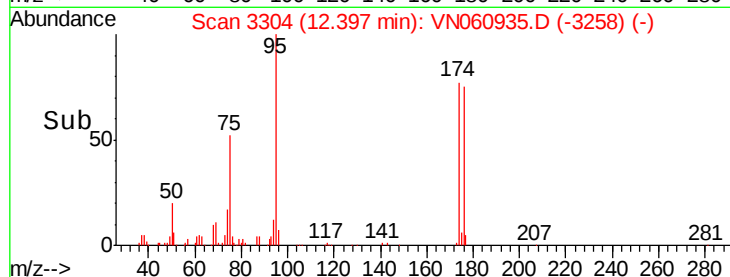
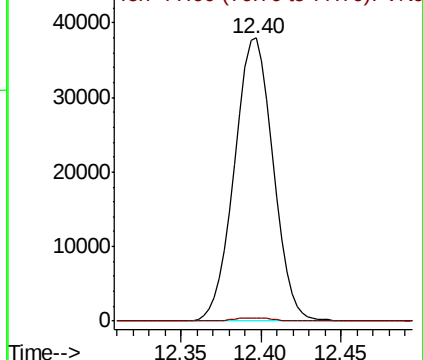
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 67.337 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060935.D

Acq: 14 Apr 2020 15:52

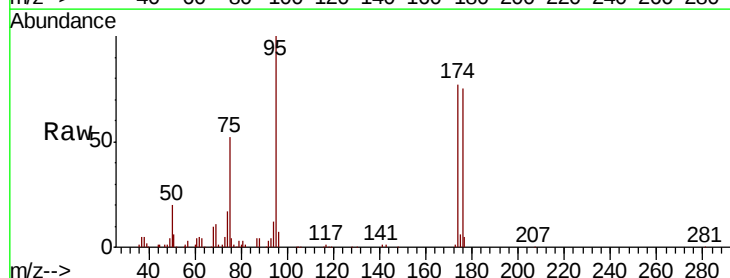
Tgt Ion: 75 Resp: 62551

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

