

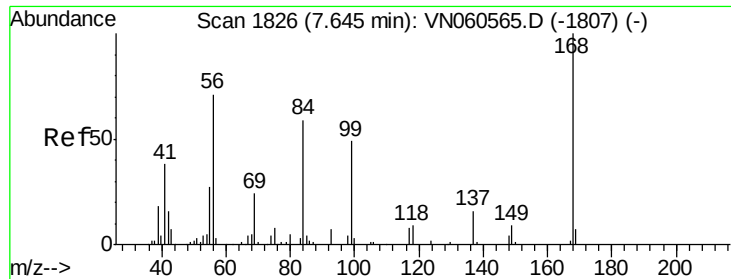
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060973.D
 Acq On : 15 Apr 2020 19:38
 Operator : JC/MD
 Sample : L2230-40
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:37:34 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	151899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	257436	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	242947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109676	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	101197	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
35) Dibromofluoromethane	7.56	113	76986	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
50) Toluene-d8	10.08	98	321213	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	
62) 4-Bromofluorobenzene	12.40	95	119969	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	90	0.293	ug/l #	72
16) Acetone	3.78	43	28646	38.783	ug/l	97
18) Methyl Acetate	4.29	43	1371	0.659	ug/l #	54
20) Methylene Chloride	4.52	84	3686	2.029	ug/l	92
25) 2-Butanone	6.80	43	13215	11.056	ug/l	97
31) Cyclohexane	7.64	56	3143	0.936	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11782	4.726	ug/l #	49
37) Ethyl Acetate	6.80	43	13215	4.906	ug/l #	72
38) Carbon Tetrachloride	7.64	117	14043	6.286	ug/l #	16
40) Benzene	8.02	78	2185	0.290	ug/l	99
43) Isopropyl Acetate	8.14	43	40187	9.047	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	624	0.314	ug/l #	43
48) Methyl methacrylate	9.16	41	2396	1.211	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3682	1.457	ug/l #	82
54) cis-1,3-Dichloropropene	9.89	75	14290	4.546	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	1790	0.590	ug/l #	42
59) 2-Hexanone	10.75	43	28903	15.873	ug/l #	54
71) Bromoform	12.40	173	508	2.019	ug/l #	1
74) N-amyl acetate	12.02	43	1540	0.405	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	60469	25.551	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	60469	65.623	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

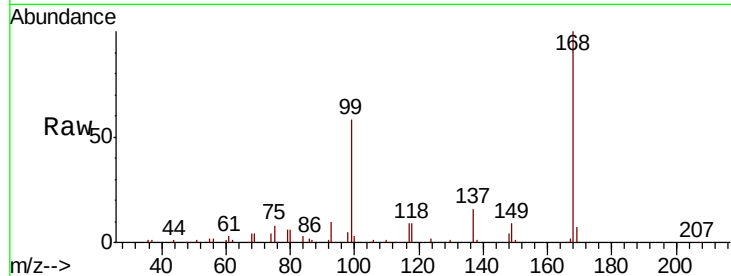
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 151899

Ion Ratio Lower Upper

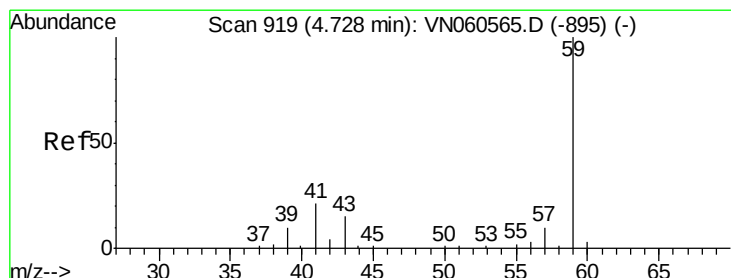
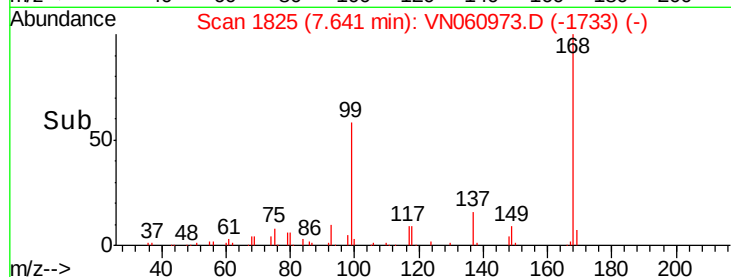
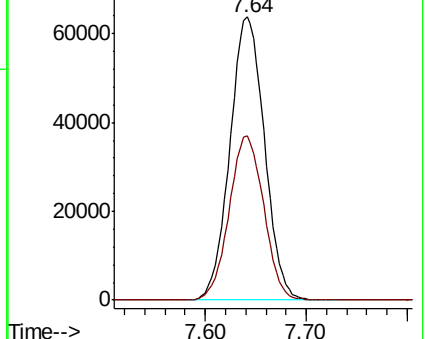
168 100

99 58.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.293 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060973.D

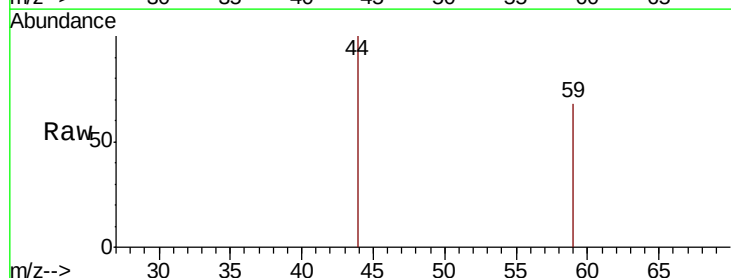
Acq: 15 Apr 2020 19:38

Tgt Ion: 59 Resp: 90

Ion Ratio Lower Upper

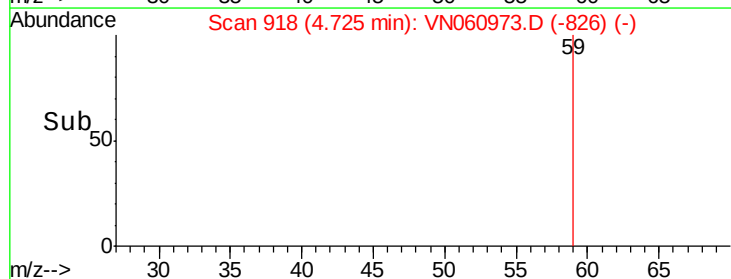
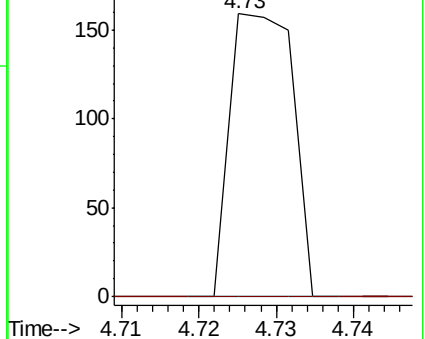
59 100

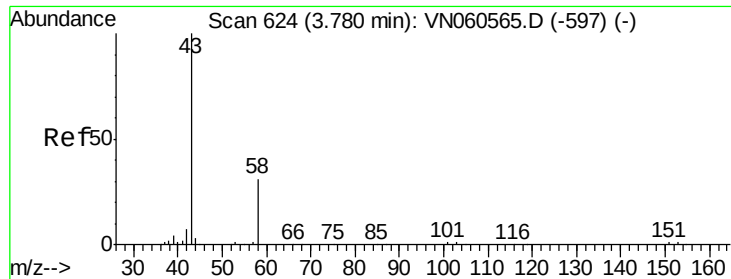
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 38.783 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

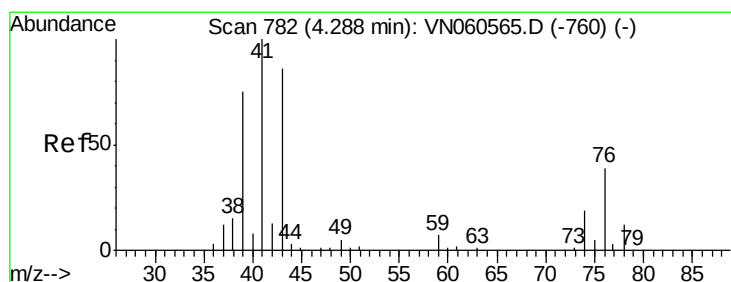
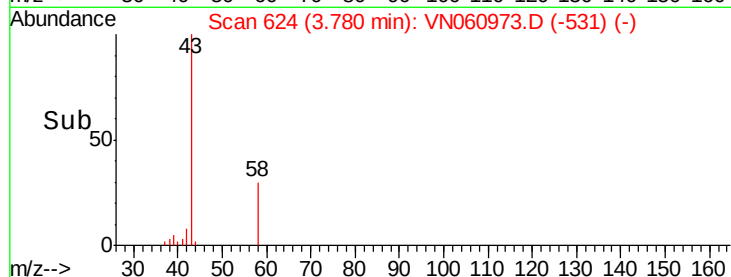
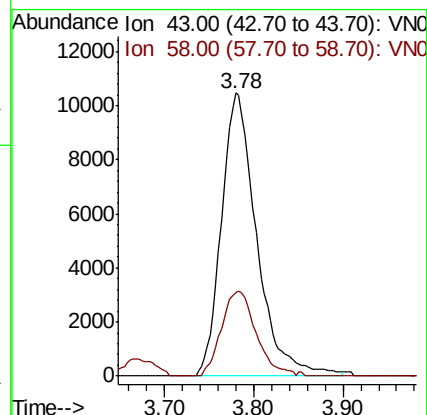
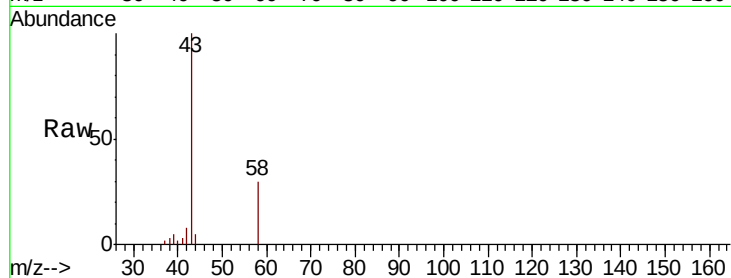
ClientSampleId :

Tot Ion: 43 Resp: 28646

Ion Ratio Lower Upper

43 100

58 29.7 25.1 37.7



#18

Methyl Acetate

Concen: 0.659 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060973.D

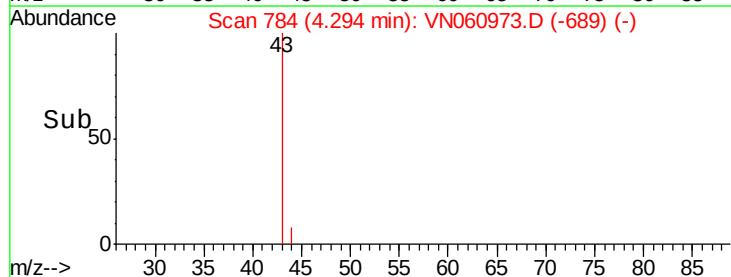
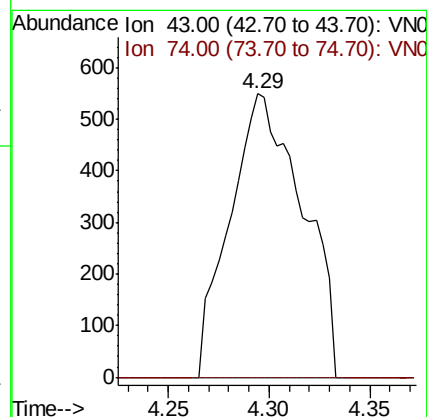
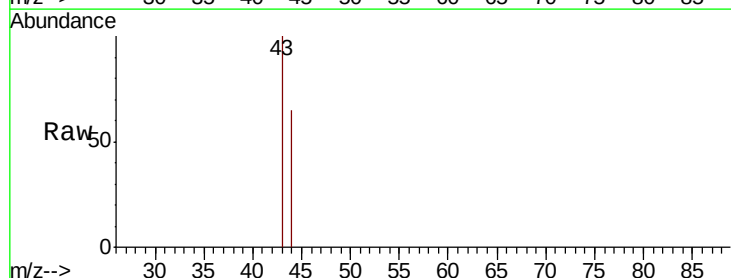
Acq: 15 Apr 2020 19:38

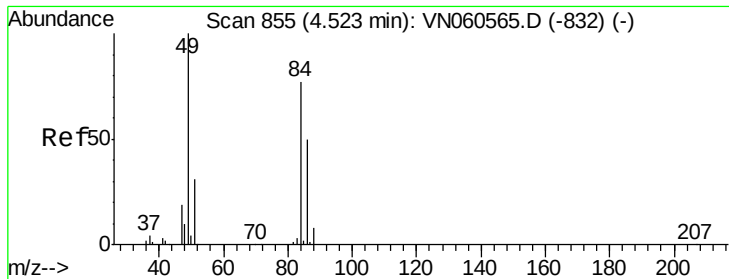
Tgt Ion: 43 Resp: 1371

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

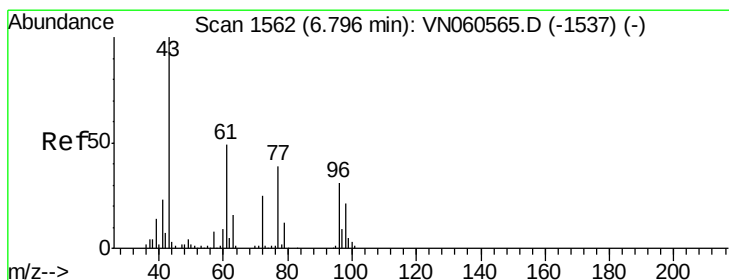
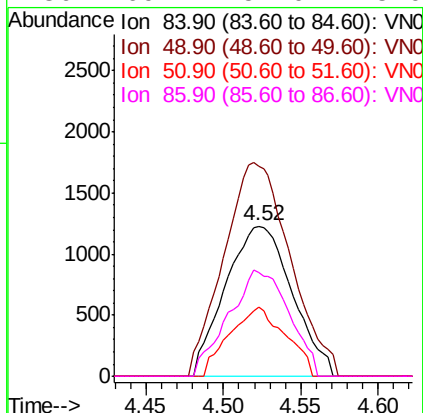
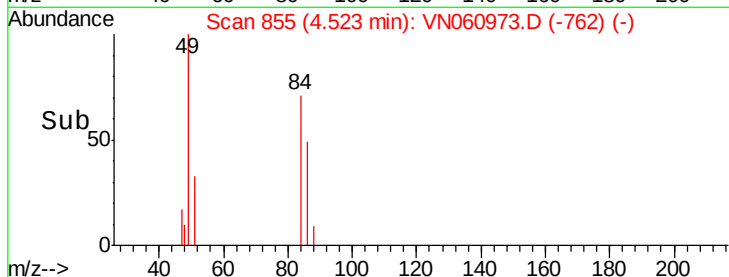
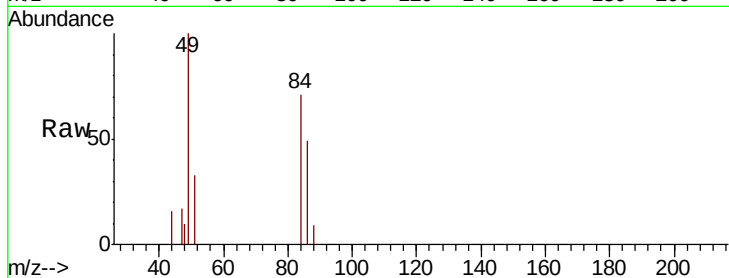




#20
Methvlene Chloride
Concen: 2.029 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060973.D
Acq: 15 Apr 2020 19:38

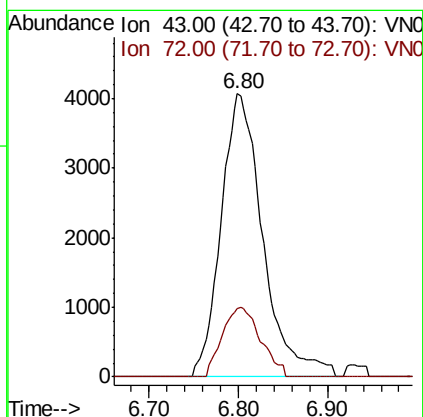
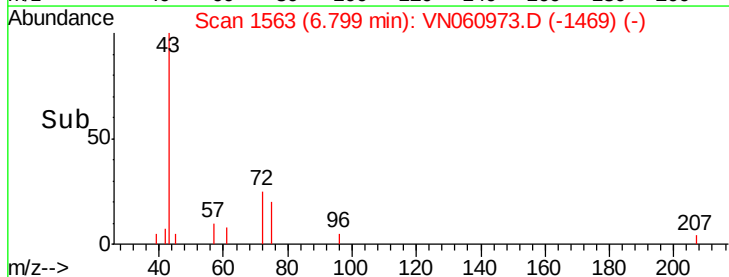
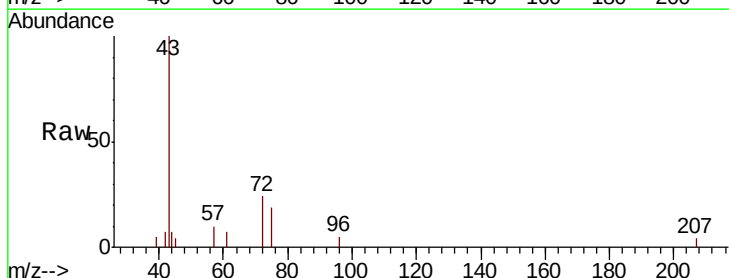
Instrument :
MSVOA_N
ClientSampled :

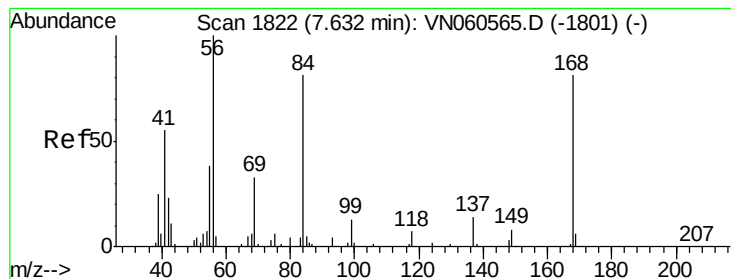
Tot Ion:	84	Resp:	3686
Ion	Ratio	Lower	Upper
84	100		
49	139.9	103.3	154.9
51	46.2	31.6	47.4
86	69.1	52.0	78.0



#25
2-Butanone
Concen: 11.056 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060973.D
Acq: 15 Apr 2020 19:38

Tgt Ion:	43	Resp:	13215
Ion	Ratio	Lower	Upper
43	100		
72	24.0	20.4	30.6





#31

Cyclohexane

Concen: 0.936 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

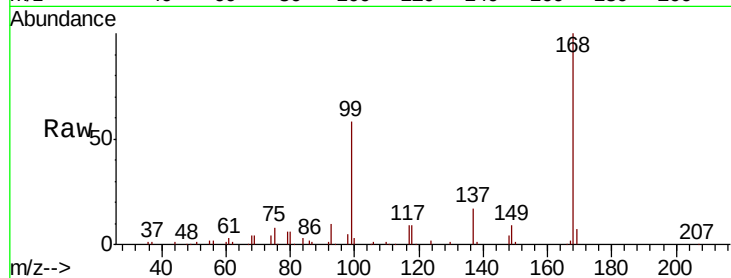
Tot Ion: 56 Resp: 3143

Ion Ratio Lower Upper

56 100

69 181.6 26.6 40.0#

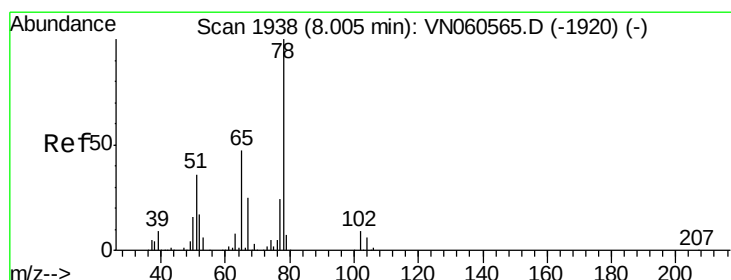
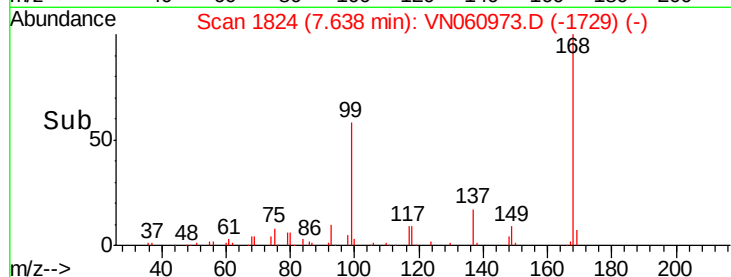
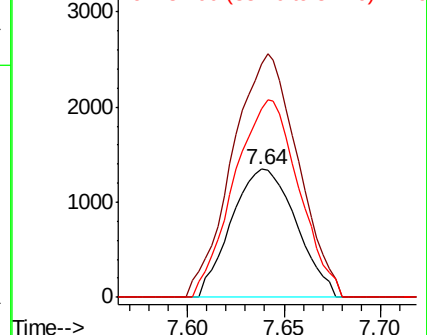
84 147.3 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060973.D (-1729) (-)

Ion 69.00 (68.70 to 69.70): VN060973.D (-1729) (-)

Ion 84.00 (83.70 to 84.70): VN060973.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.530 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060973.D

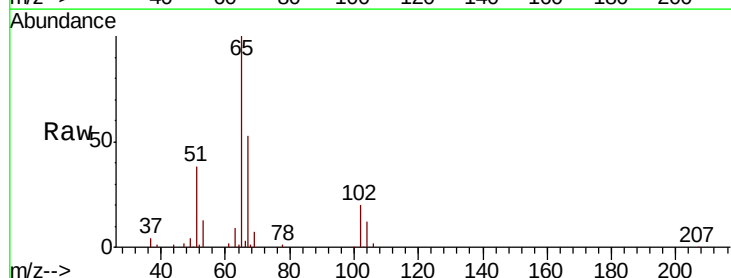
Acq: 15 Apr 2020 19:38

Tgt Ion: 65 Resp: 101197

Ion Ratio Lower Upper

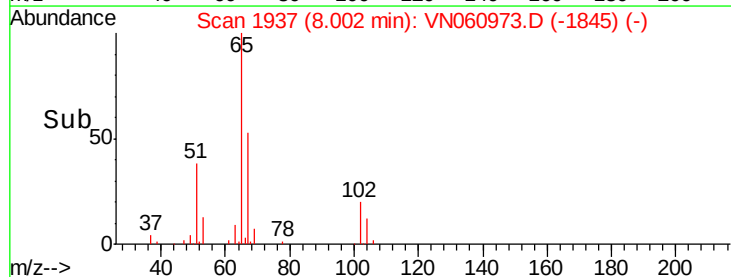
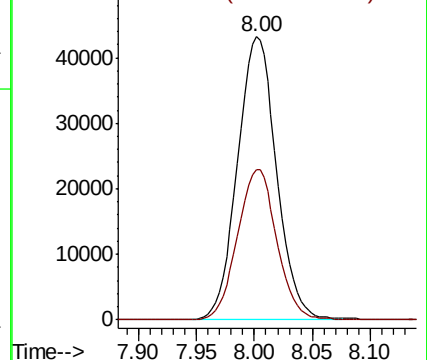
65 100

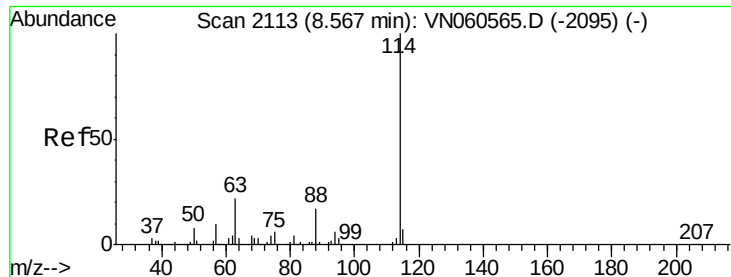
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060973.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060973.D (-1845) (-)

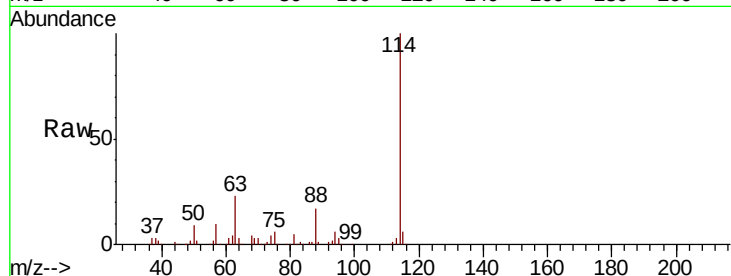




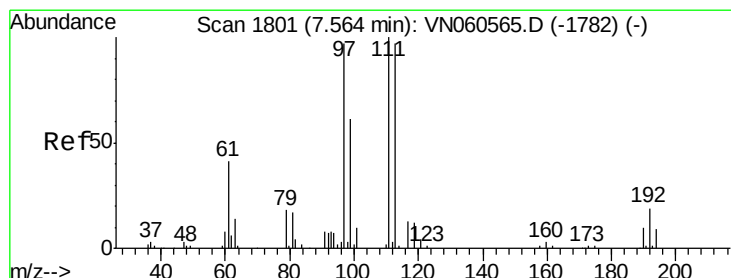
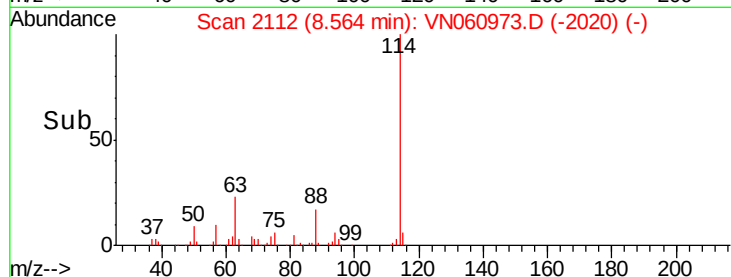
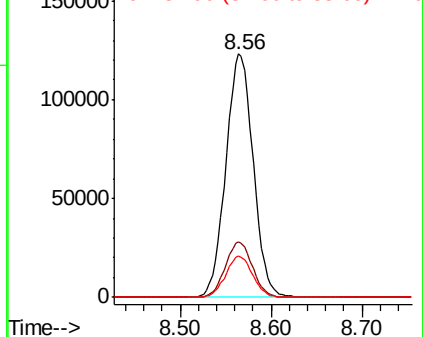
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060973.D
 Acq: 15 Apr 2020 19:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 257436
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 43.8
 88 17.1 0.0 33.0

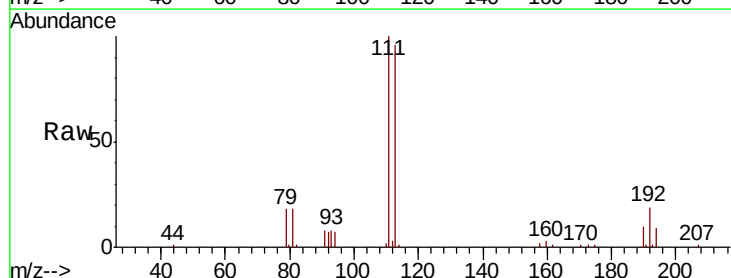


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

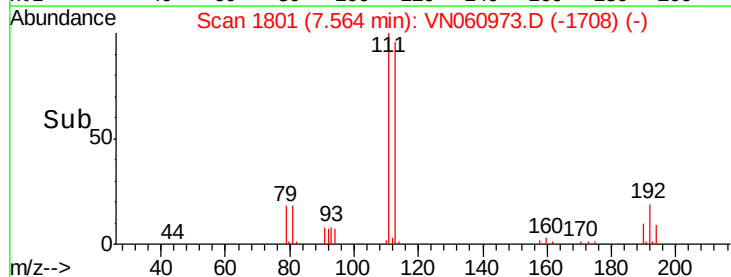
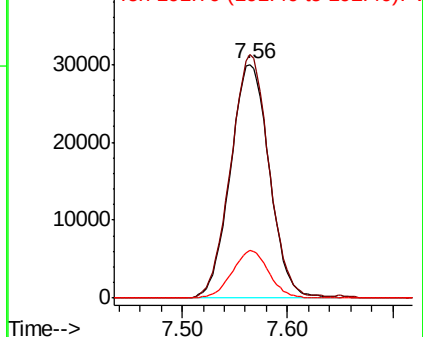


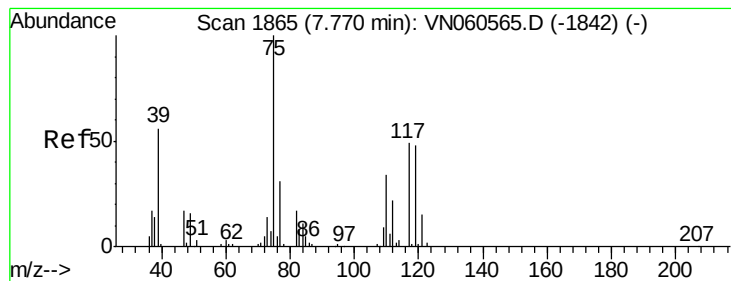
#35
 Dibromofluoromethane
 Concen: 49.457 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060973.D
 Acq: 15 Apr 2020 19:38

Tgt Ion:113 Resp: 76986
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.9 124.3
 192 19.1 15.8 23.8



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: 4.726 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampleId :

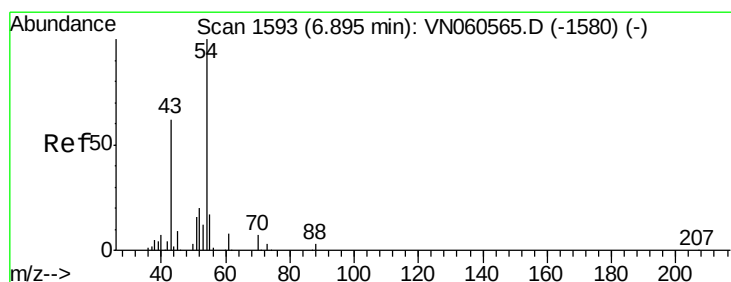
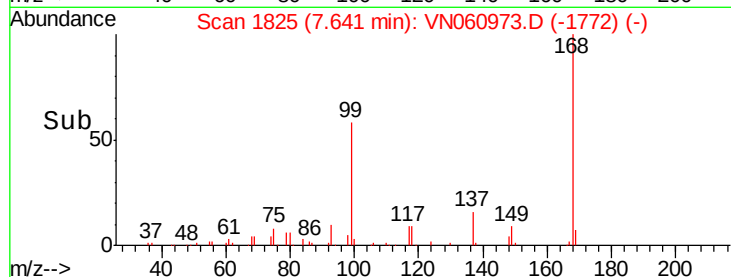
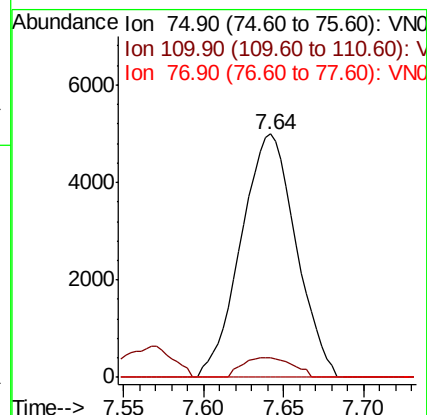
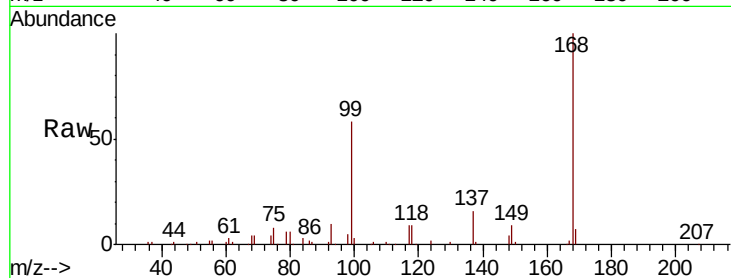
Tot Ion: 75 Resp: 11782

Ion Ratio Lower Upper

75 100

110 7.3 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 4.906 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

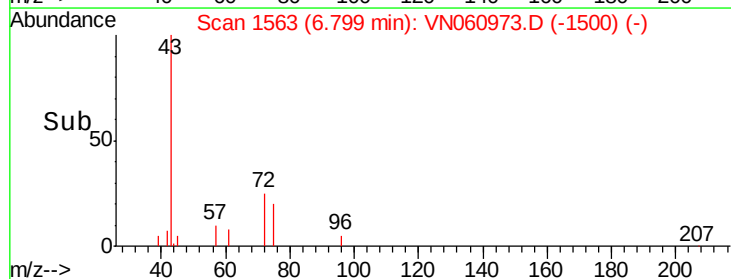
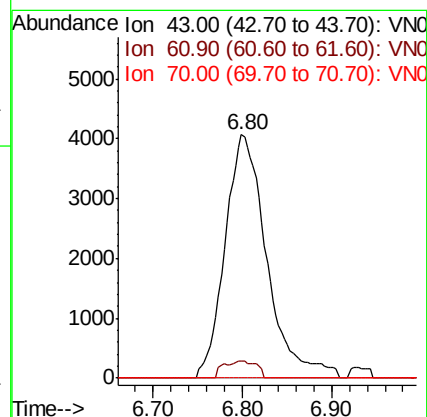
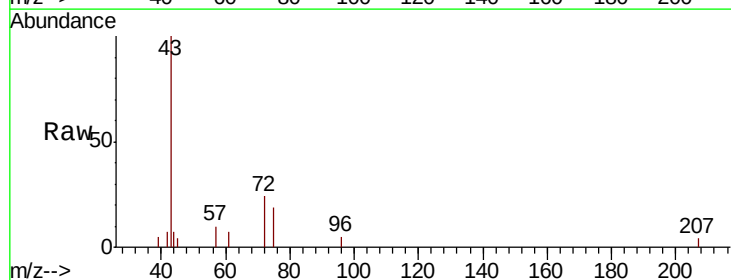
Tgt Ion: 43 Resp: 13215

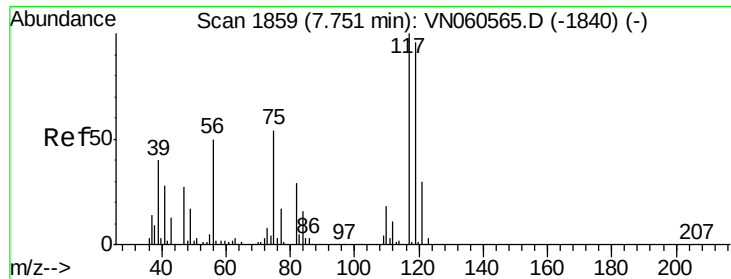
Ion Ratio Lower Upper

43 100

61 1.6 10.6 15.8#

70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.286 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

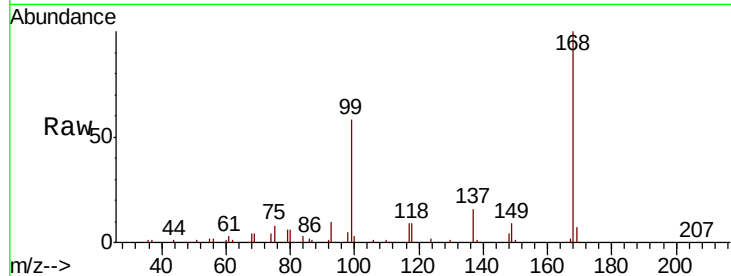
Tot Ion:117 Resp: 14043

Ion Ratio Lower Upper

117 100

119 4.9 76.2 114.2#

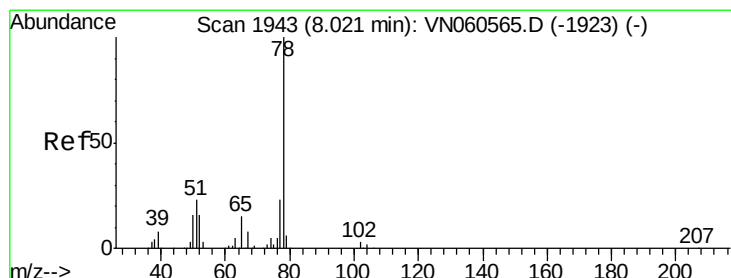
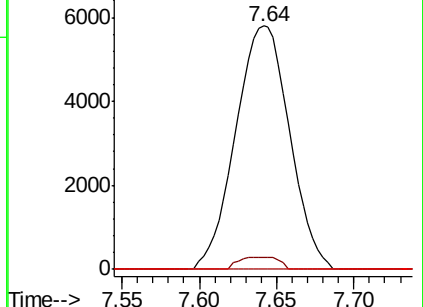
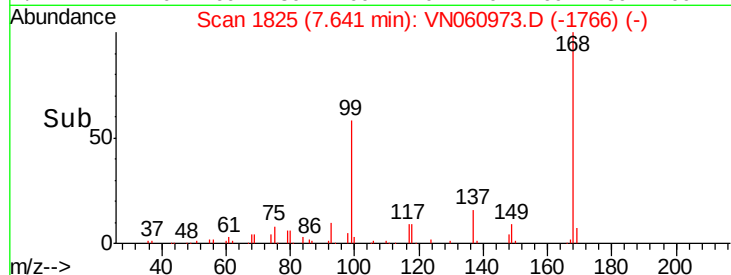
121 0.0 23.7 35.5#



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



#40

Benzene

Concen: 0.290 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN060973.D

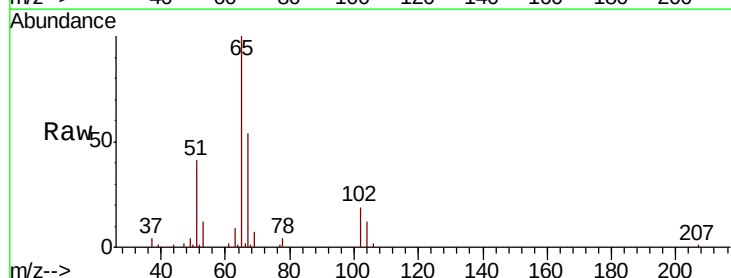
Acq: 15 Apr 2020 19:38

Tgt Ion: 78 Resp: 2185

Ion Ratio Lower Upper

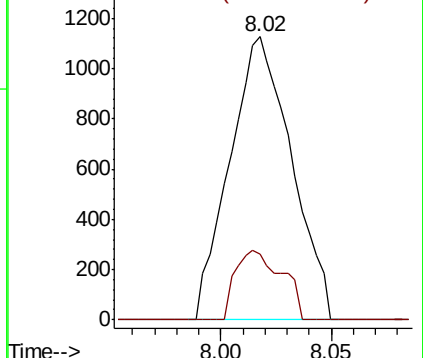
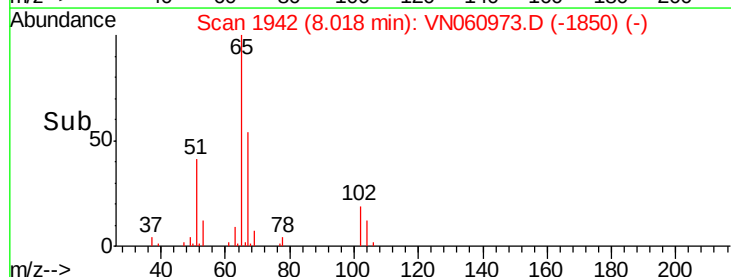
78 100

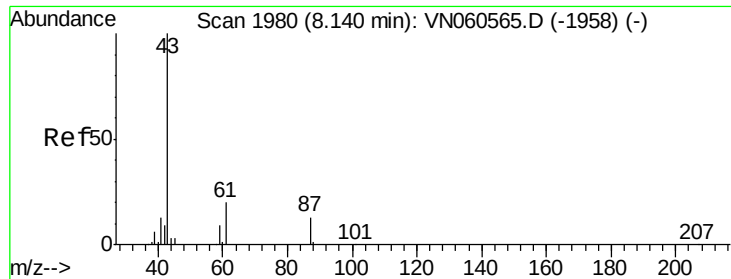
77 23.0 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 9.047 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampleId :

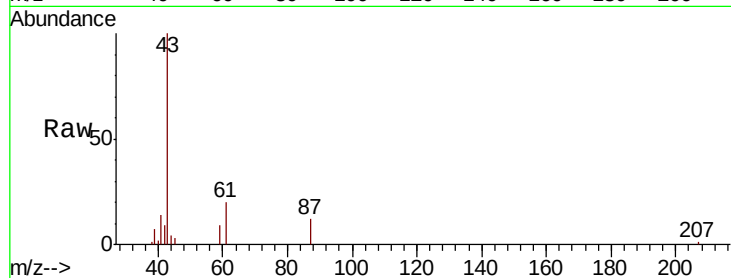
Tot Ion: 43 Resp: 40187

Ion Ratio Lower Upper

43 100

61 19.8 20.7 31.1#

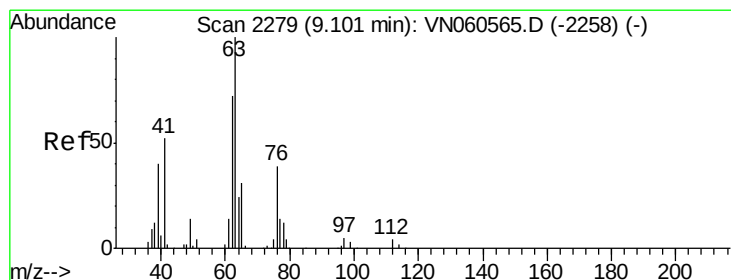
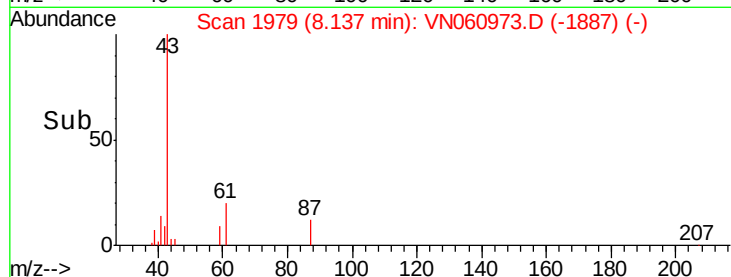
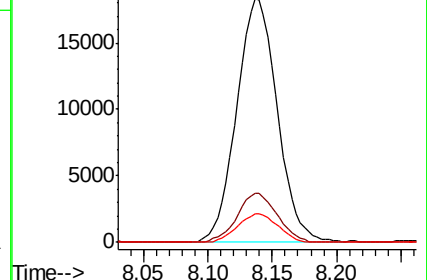
87 11.5 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060973.D (-1979) (-)

Ion 61.00 (60.70 to 61.70): VN060973.D (-1979) (-)

Ion 87.00 (86.70 to 87.70): VN060973.D (-1979) (-)



#45

1,2-Dichloropropane

Concen: 0.314 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060973.D

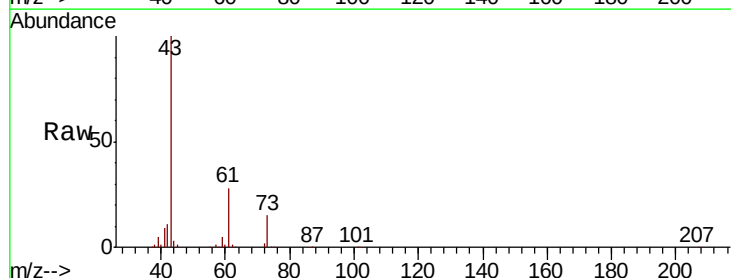
Acq: 15 Apr 2020 19:38

Tgt Ion: 63 Resp: 624

Ion Ratio Lower Upper

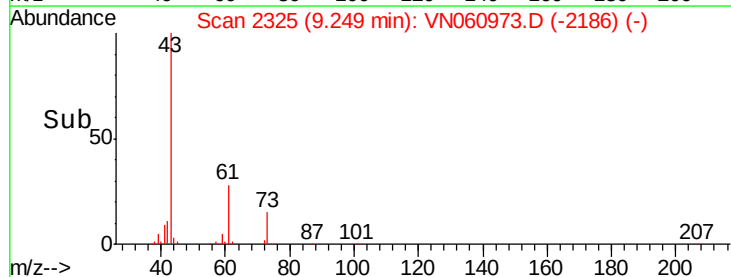
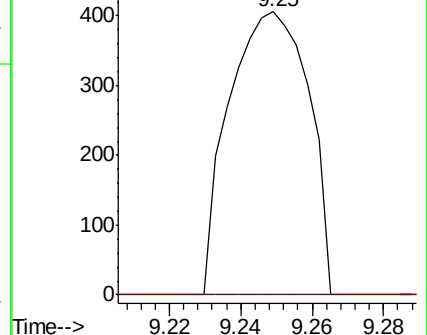
63 100

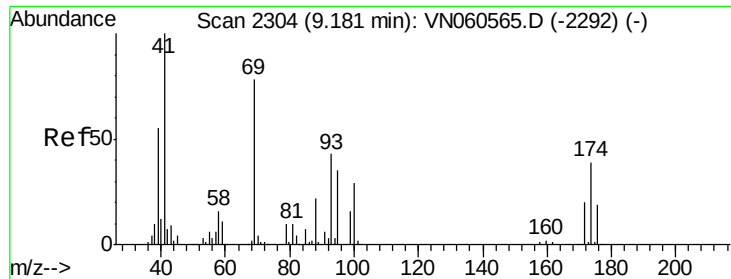
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060973.D (-2325) (-)

Ion 64.90 (64.60 to 65.60): VN060973.D (-2325) (-)

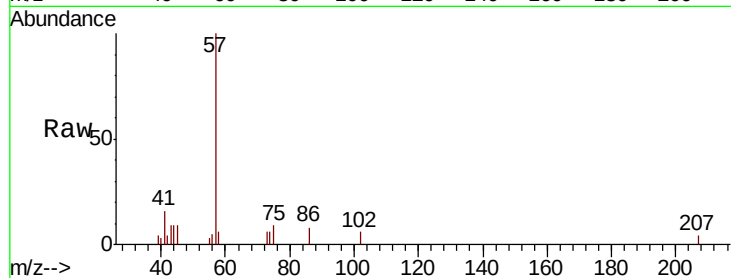




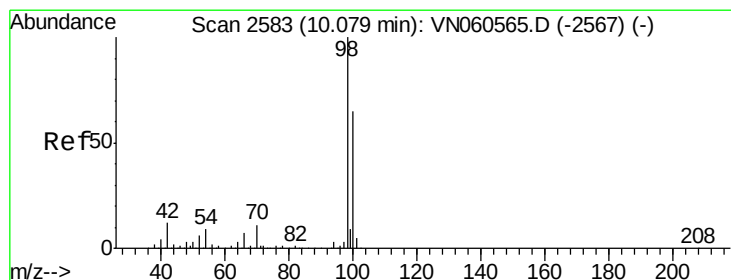
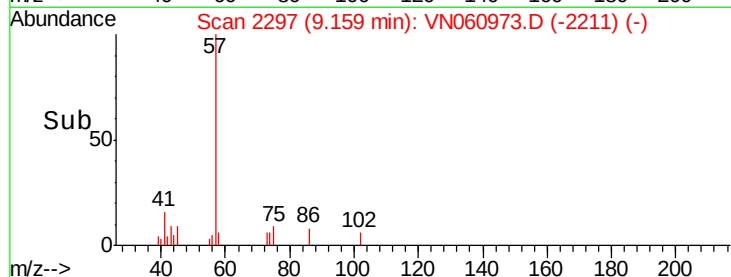
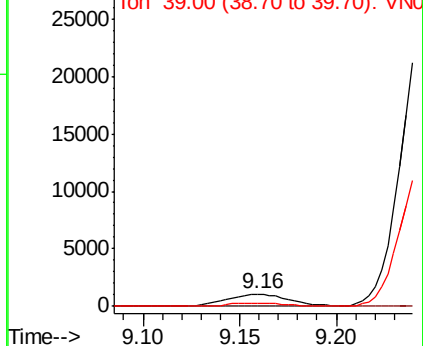
#48
Methvl methacrylate
Concen: 1.211 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060973.D
Acq: 15 Apr 2020 19:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2396
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

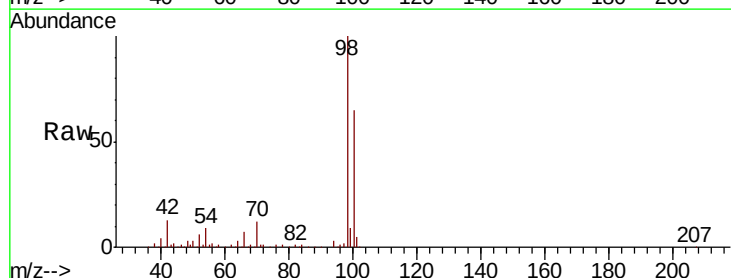


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

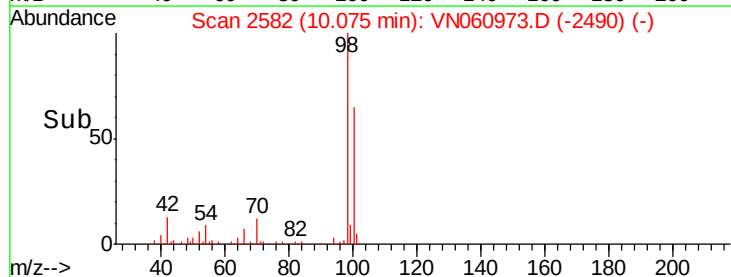
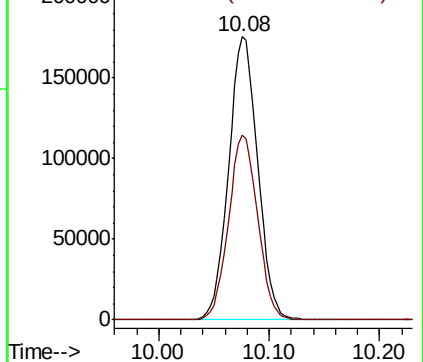


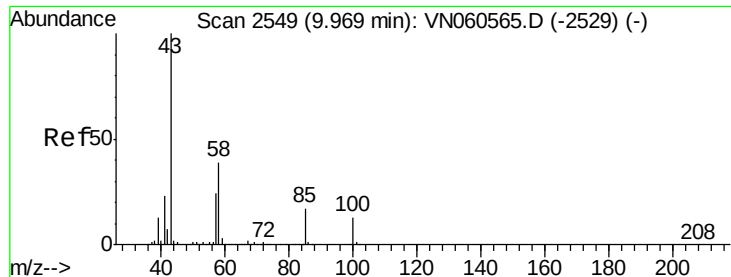
#50
Toluene-d8
Concen: 50.519 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060973.D
Acq: 15 Apr 2020 19:38

Tgt Ion: 98 Resp: 321213
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

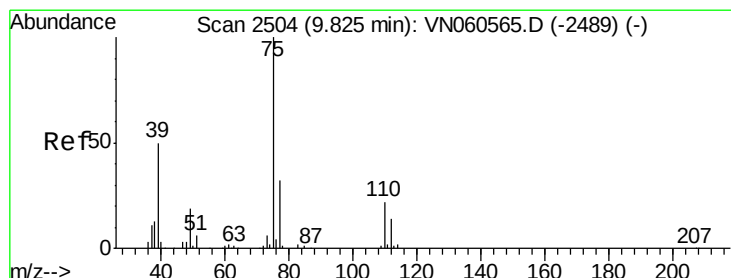
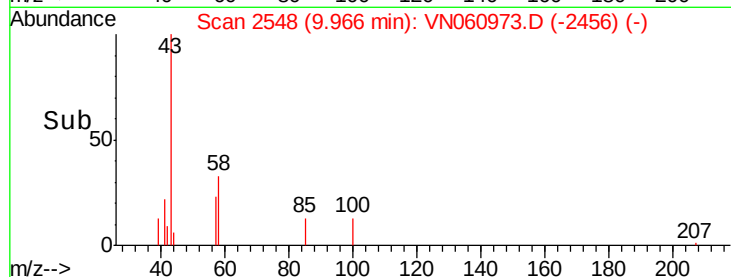
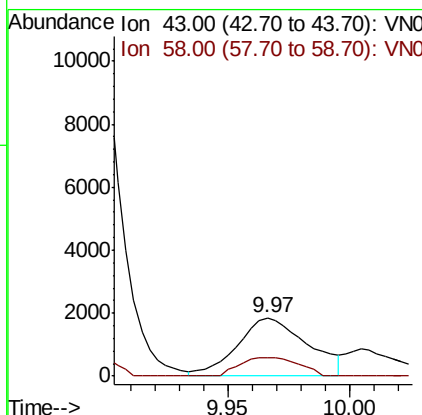
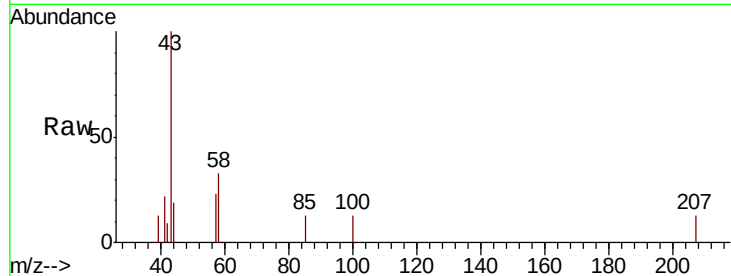




#51
 4-Methyl-2-Pentanone
 Concen: 1.457 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060973.D
 Acq: 15 Apr 2020 19:38

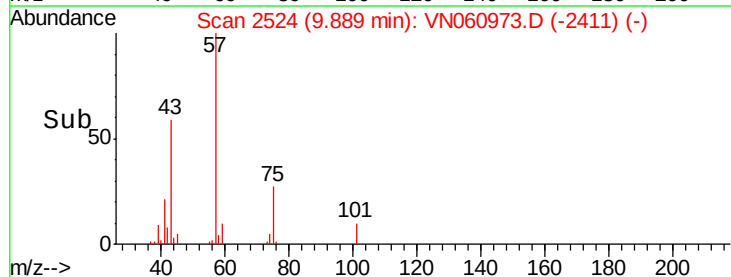
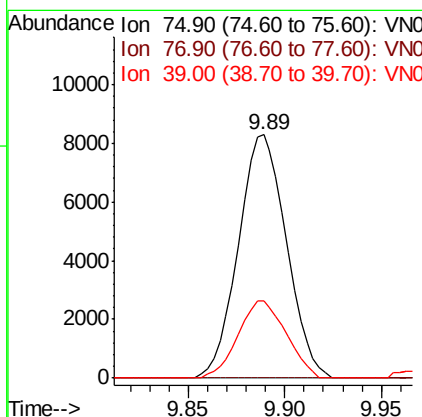
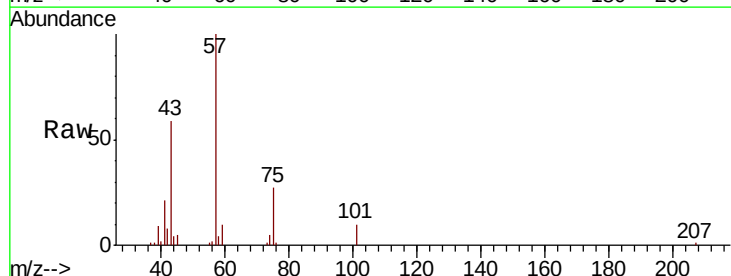
Instrument :
 MSVOA_N
 ClientSampled :

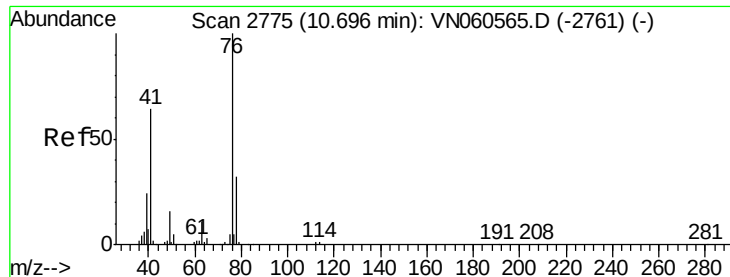
Tot Ion: 43 Resp: 3682
 Ion Ratio Lower Upper
 43 100
 58 27.3 30.8 46.2#



#54
 cis-1,3-Dichloropropene
 Concen: 4.546 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060973.D
 Acq: 15 Apr 2020 19:38

Tgt Ion: 75 Resp: 14290
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.9 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.590 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

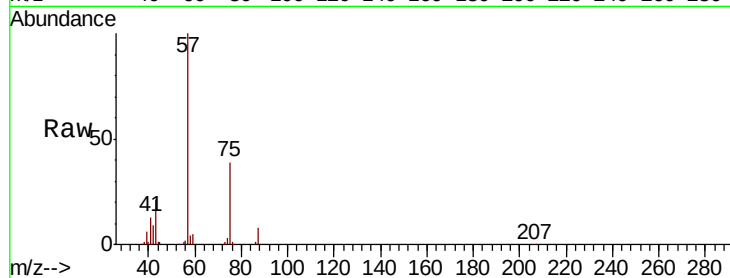
ClientSampleId :

Tot Ion: 76 Resp: 1790

Ion Ratio Lower Upper

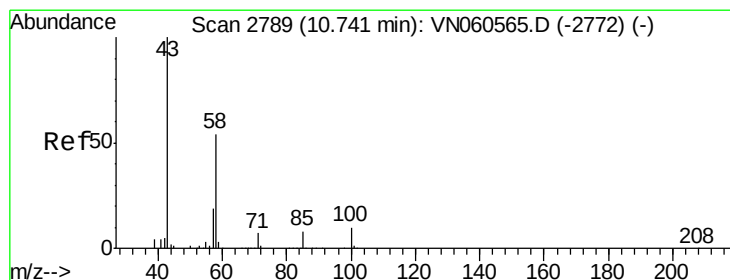
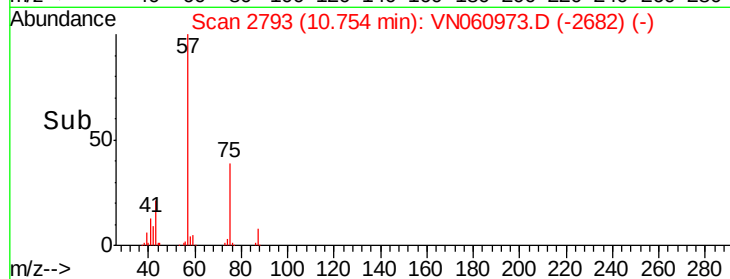
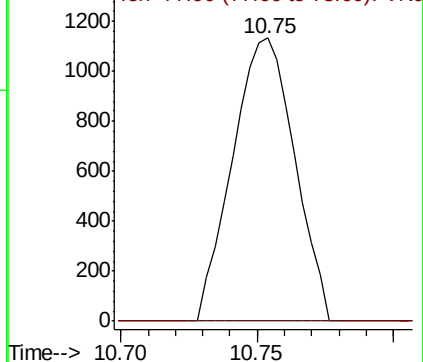
76 100

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: 15.873 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060973.D

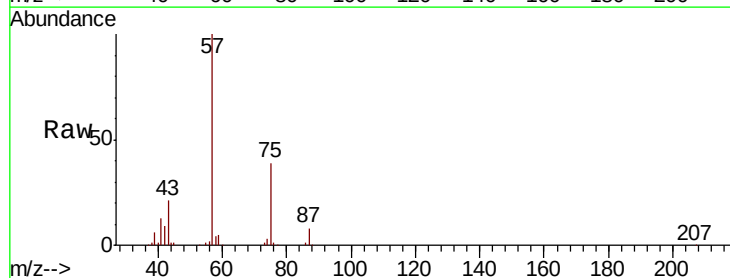
Acq: 15 Apr 2020 19:38

Tgt Ion: 43 Resp: 28903

Ion Ratio Lower Upper

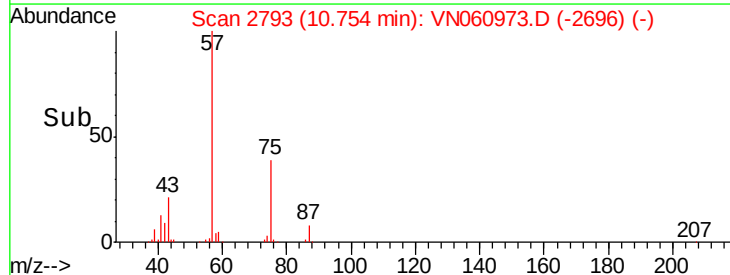
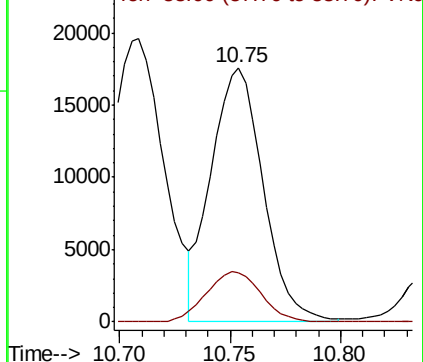
43 100

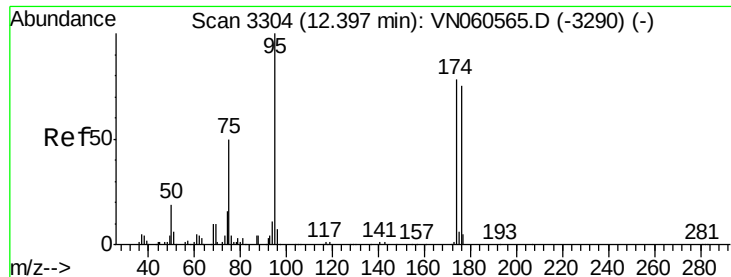
58 20.7 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.484 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

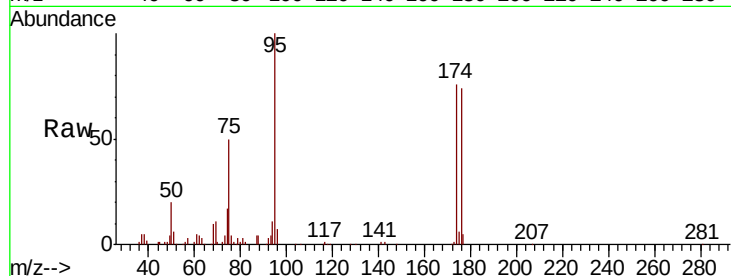
Tot Ion: 95 Resp: 119969

Ion Ratio Lower Upper

95 100

174 75.4 0.0 157.6

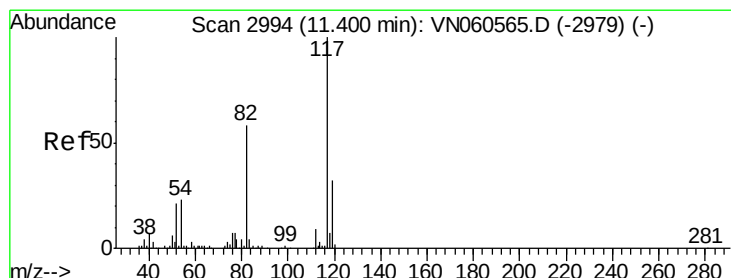
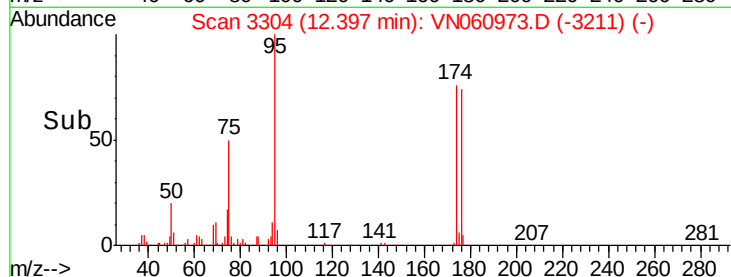
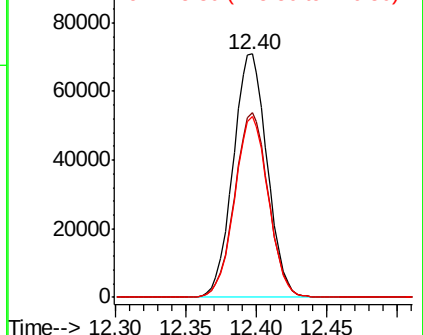
176 73.7 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060973.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060973.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060973.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

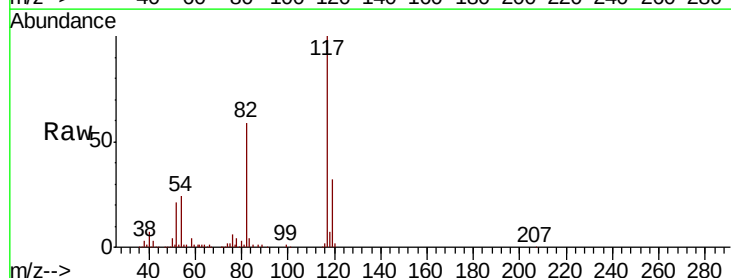
Tgt Ion: 117 Resp: 242947

Ion Ratio Lower Upper

117 100

82 59.1 46.7 70.1

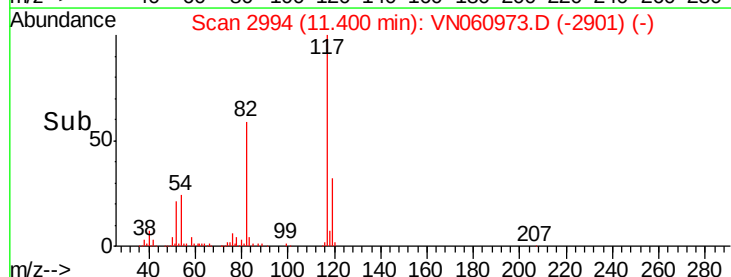
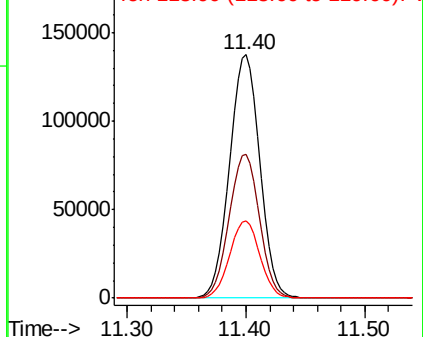
119 32.0 25.5 38.3

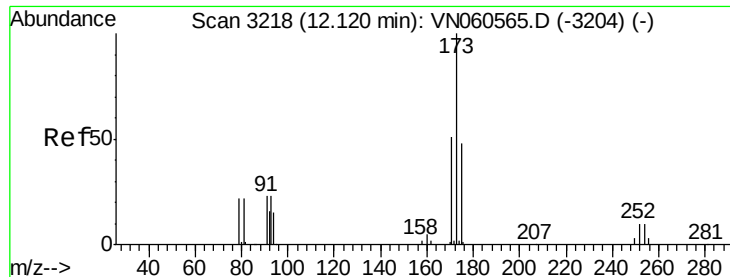


Abundance Ion 116.90 (116.60 to 117.60): VN060973.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060973.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060973.D (-2979) (-)





#71

Bromoform

Concen: 2.019 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampled :

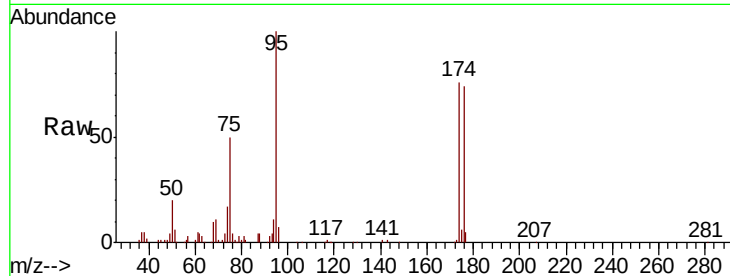
Tot Ion:173 Resp: 508

Ion Ratio Lower Upper

173 100

175 1174.6 24.1 72.4#

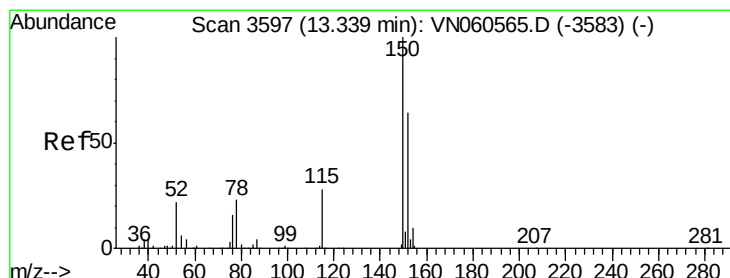
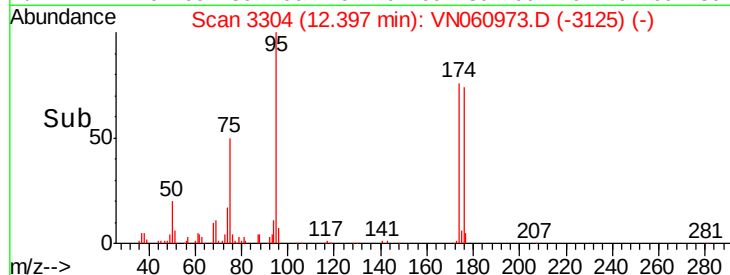
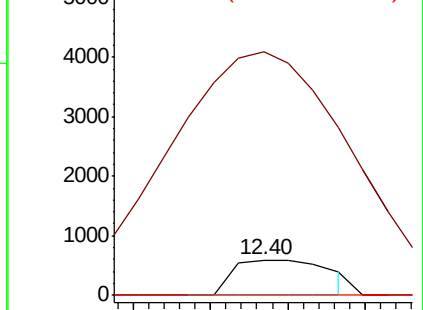
254 0.0 0.0 0.0



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: VN060973.D

Acq: 15 Apr 2020 19:38

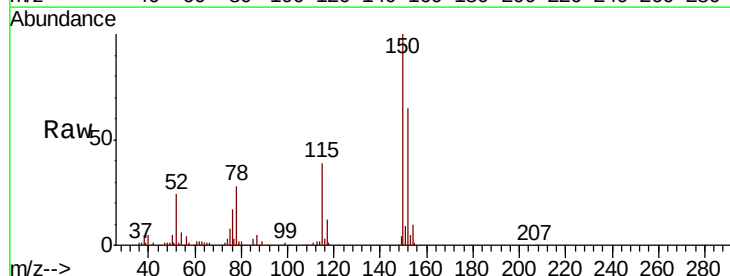
Tgt Ion:152 Resp: 109676

Ion Ratio Lower Upper

152 100

115 60.0 30.2 90.6

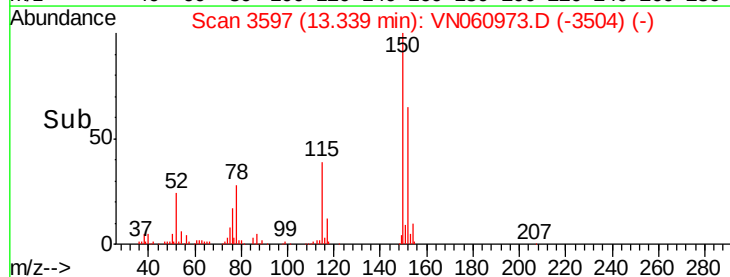
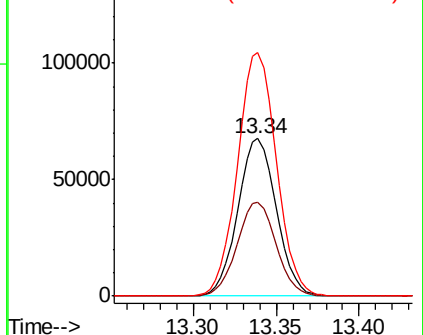
150 156.0 0.0 350.2

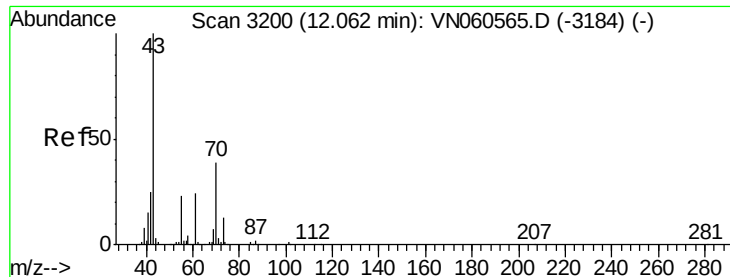


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.405 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1540

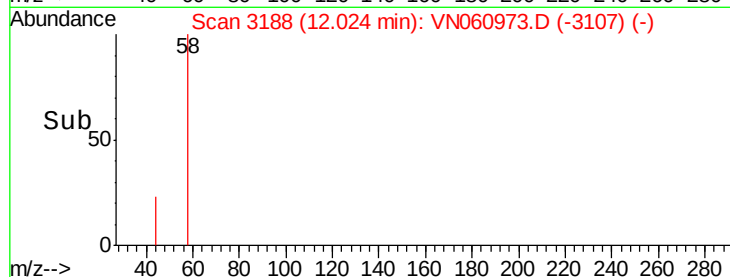
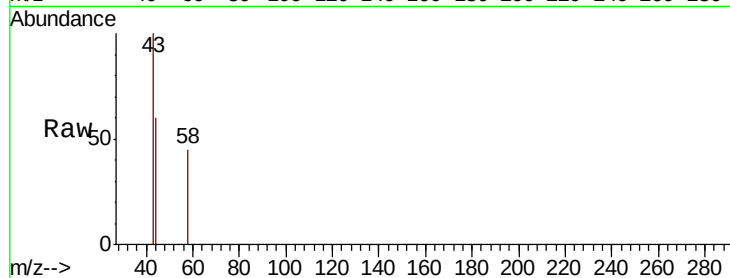
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

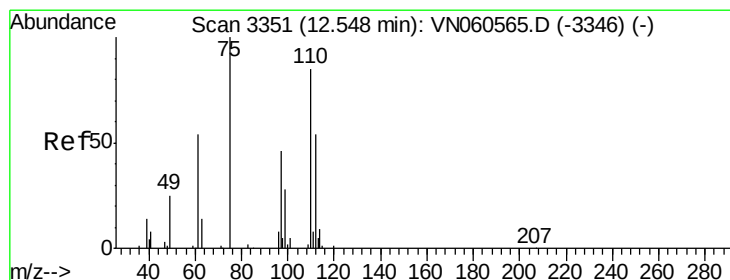
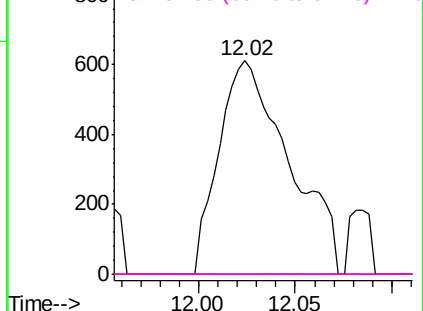


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.551 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060973.D

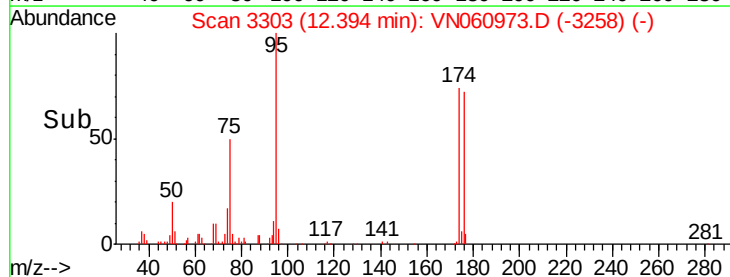
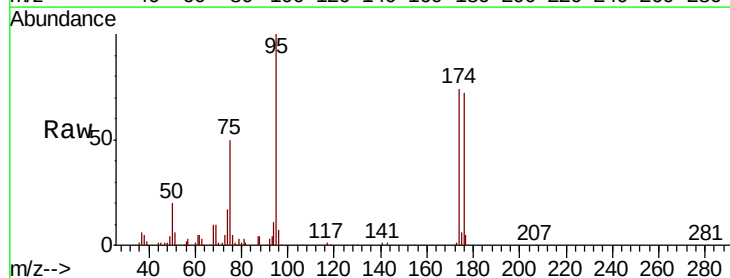
Acq: 15 Apr 2020 19:38

Tgt Ion: 75 Resp: 60469

Ion Ratio Lower Upper

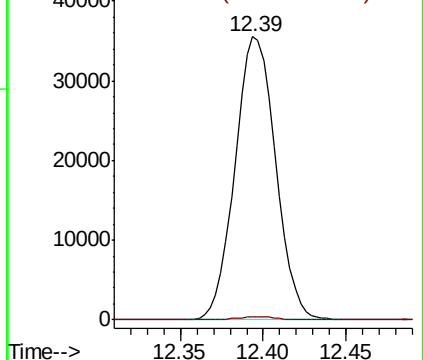
75 100

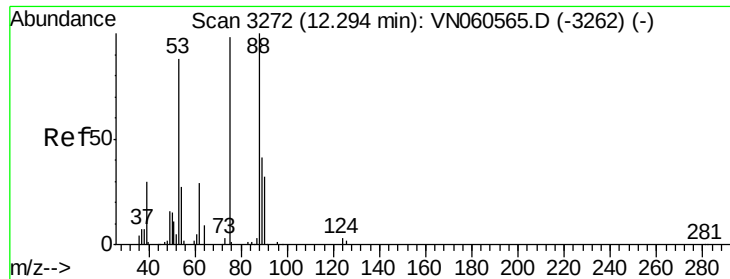
77 1.0 0.0 0.0#



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: 65.623 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060973.D

Acq: 15 Apr 2020 19:38

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 60469

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

