

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021120\
 Data File : VN060062.D
 Acq On : 11 Feb 2020 13:56
 Operator : JC/MD
 Sample : PB126730ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 12 04:23:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	188120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	293579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	278231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	124735	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	109597	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	
35) Dibromofluoromethane	7.57	113	89920	51.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.72%	
50) Toluene-d8	10.08	98	361941	53.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.72%	
62) 4-Bromofluorobenzene	12.40	95	128305	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	

Target Compounds

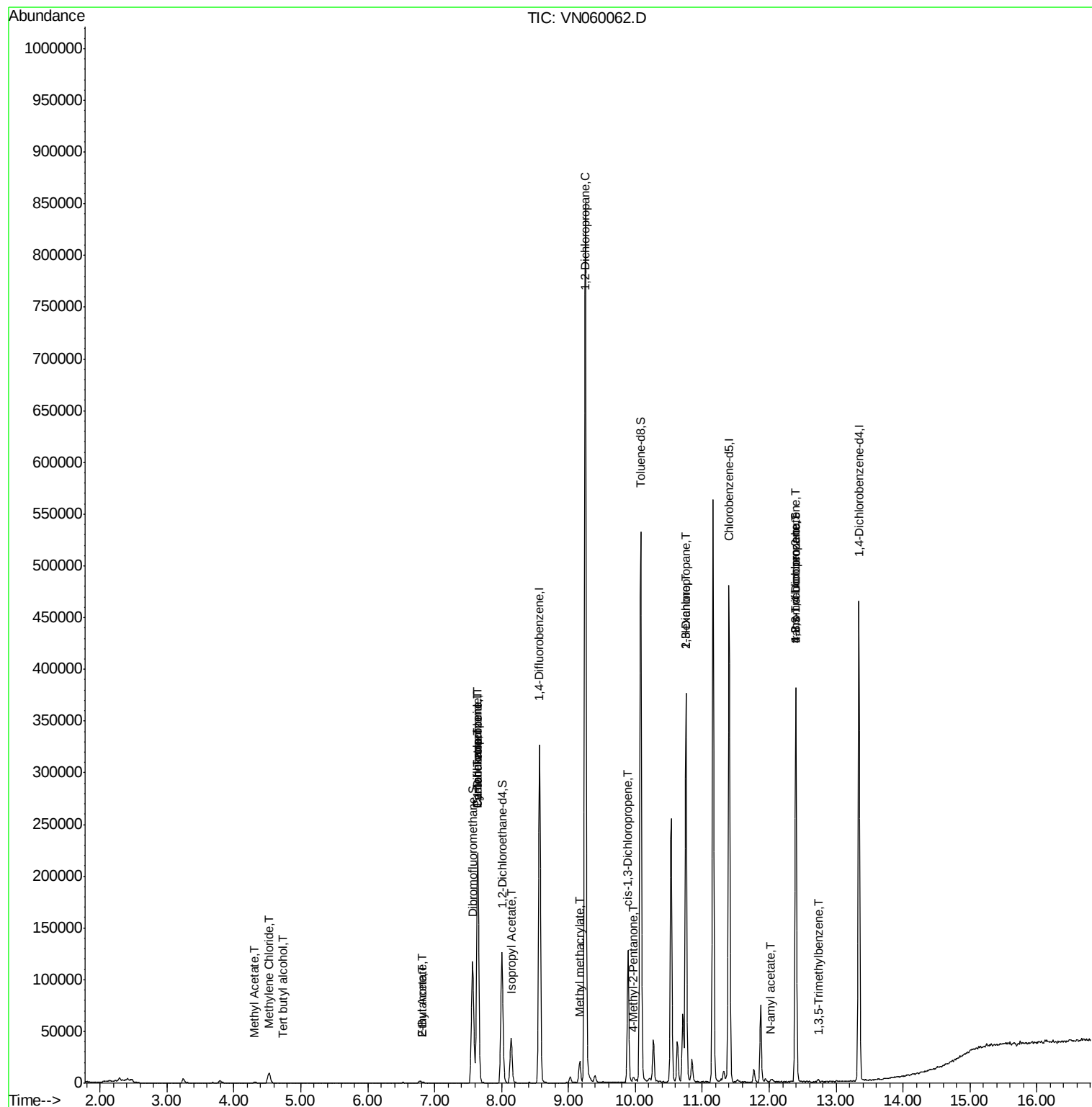
					Qvalue	
11) Tert butyl alcohol	4.73	59	165	0.469	ug/l #	72
16) Acetone	3.79	43	4225	Below Cal		97
18) Methyl Acetate	4.30	43	1316	0.539	ug/l #	54
20) Methylene Chloride	4.53	84	7618	2.809	ug/l	88
25) 2-Butanone	6.82	43	1231	1.041	ug/l #	84
31) Cyclohexane	7.64	56	3722	1.204	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13106	5.126	ug/l #	51
37) Ethyl Acetate	6.82	43	1231	0.513	ug/l #	69
38) Carbon Tetrachloride	7.64	117	17742	6.380	ug/l #	16
43) Isopropyl Acetate	8.14	43	50579	12.263	ug/l	92
45) 1,2-Dichloropropane	9.25	63	831	0.440	ug/l #	44
48) Methyl methacrylate	9.16	41	2995	1.623	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2542	1.066	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	23524	7.466	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	3945	1.303	ug/l #	42
59) 2-Hexanone	10.75	43	53212	30.295	ug/l #	55
74) N-amyl acetate	12.03	43	2065	0.582	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	67414	32.115	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1893	0.246	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	67414	68.966	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.24	75	30	Below Cal	#	6

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

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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: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :

MSVOA_N

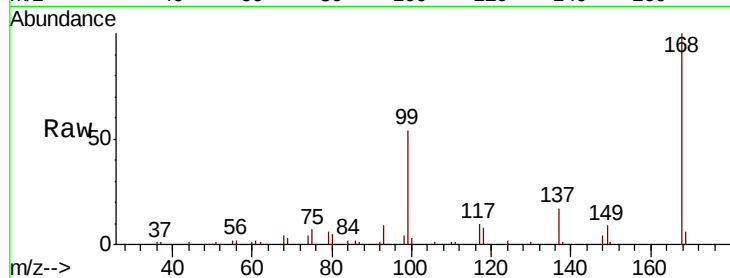
ClientSampleId :

Tot Ion:168 Resp: 188120

Ion Ratio Lower Upper

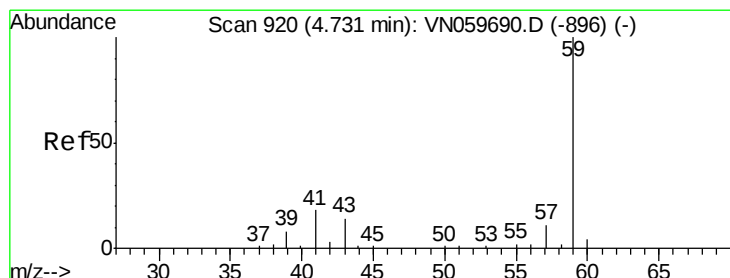
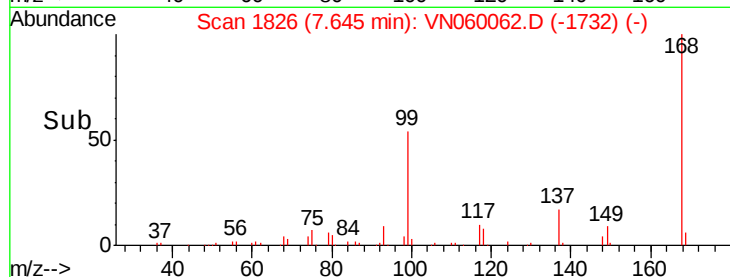
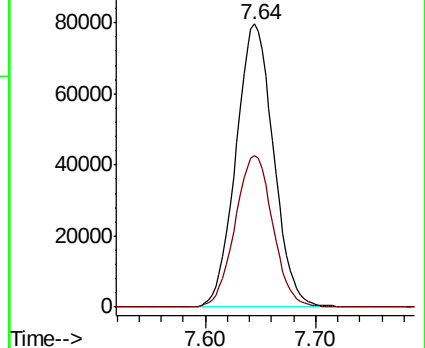
168 100

99 53.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.469 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN060062.D

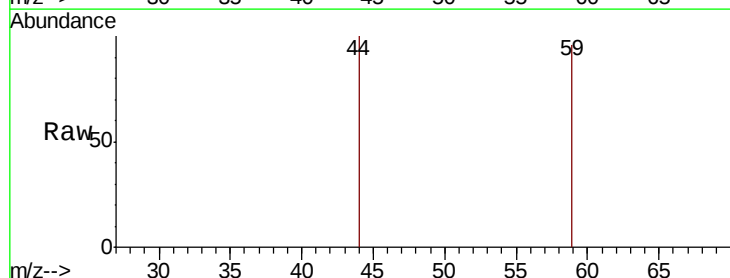
Acq: 11 Feb 2020 13:56

Tgt Ion: 59 Resp: 165

Ion Ratio Lower Upper

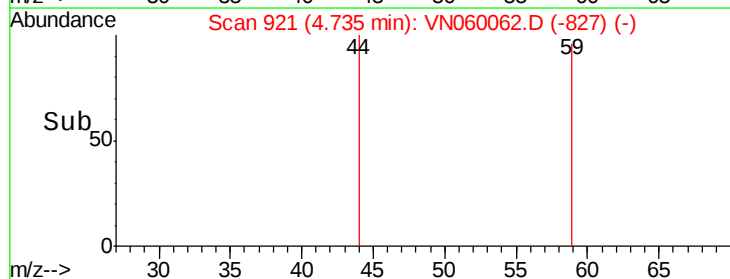
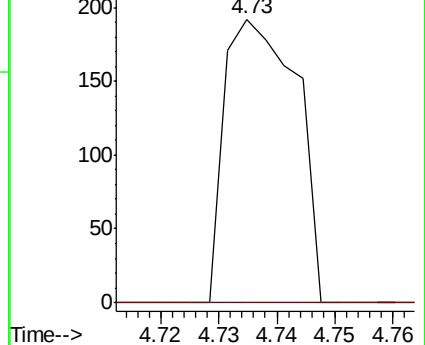
59 100

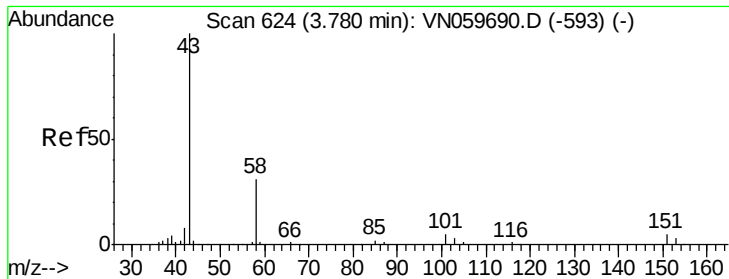
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :

MSVOA_N

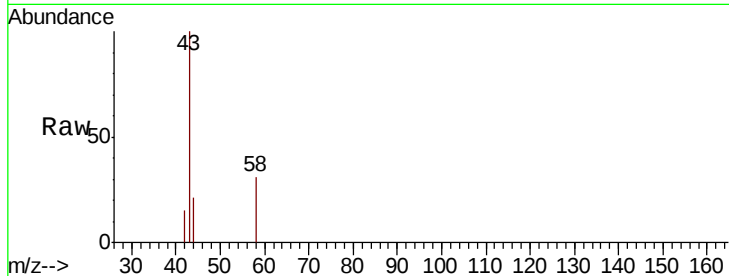
ClientSampled :

Tot Ion: 43 Resp: 4225

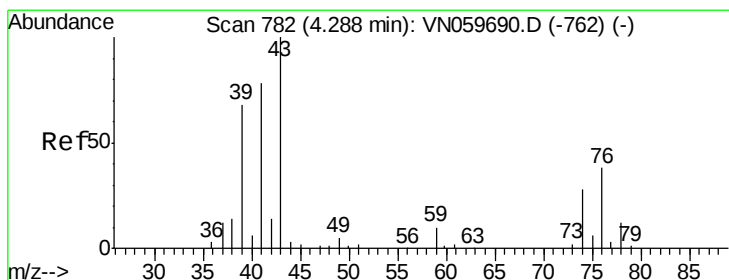
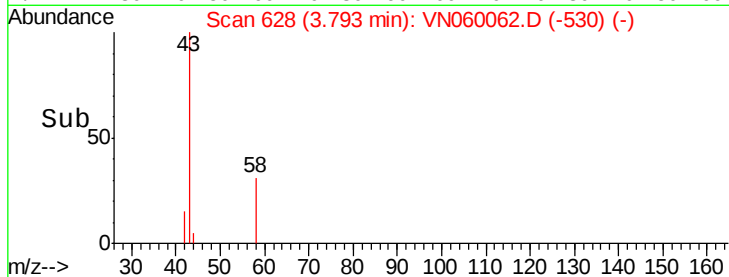
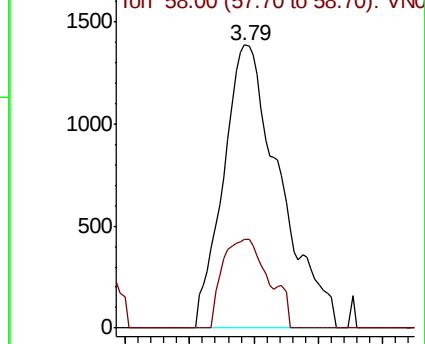
Ion Ratio Lower Upper

43 100

58 31.2 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0



#18

Methyl Acetate

Concen: 0.539 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.02 min

Lab File: VN060062.D

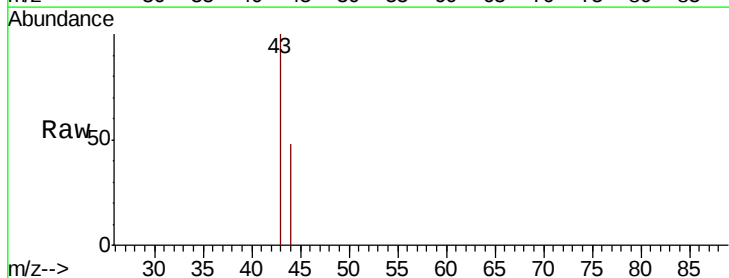
Acq: 11 Feb 2020 13:56

Tgt Ion: 43 Resp: 1316

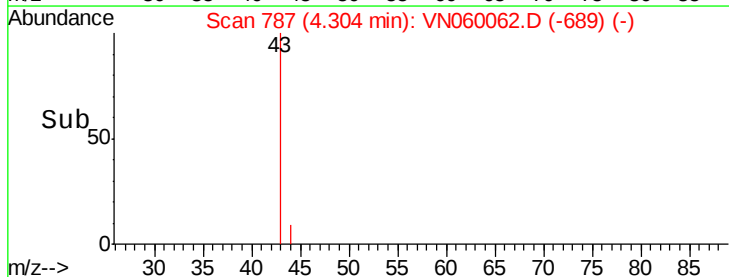
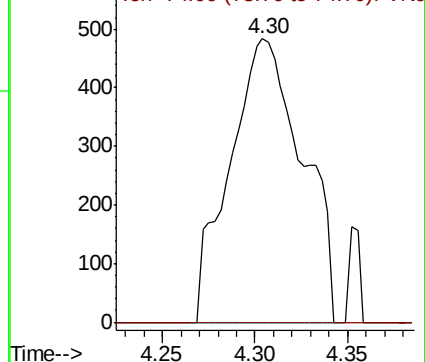
Ion Ratio Lower Upper

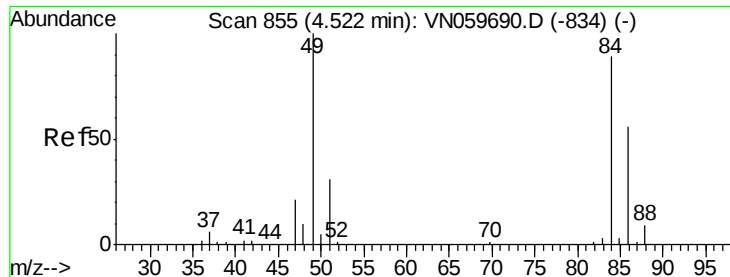
43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

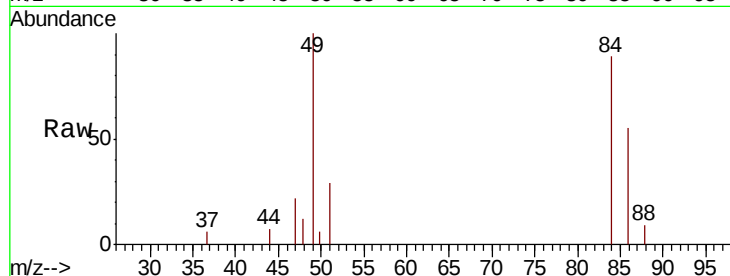




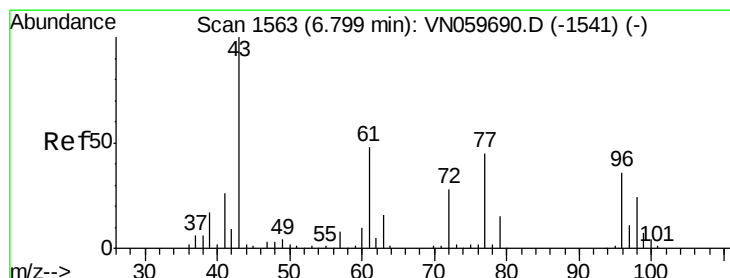
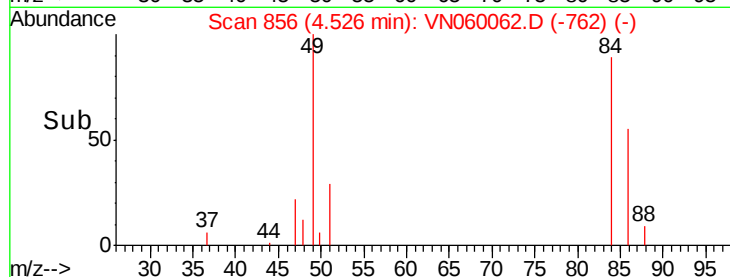
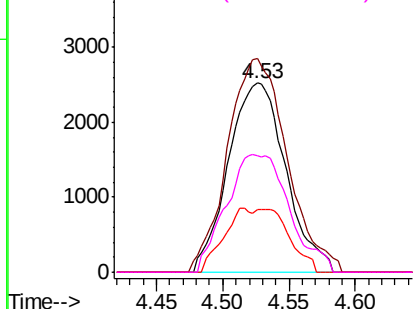
#20
Methvlene Chloride
Concen: 2.809 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 7618
Ion Ratio Lower Upper
84 100
49 112.8 106.6 160.0
51 32.8 31.9 47.9
86 61.7 50.8 76.2

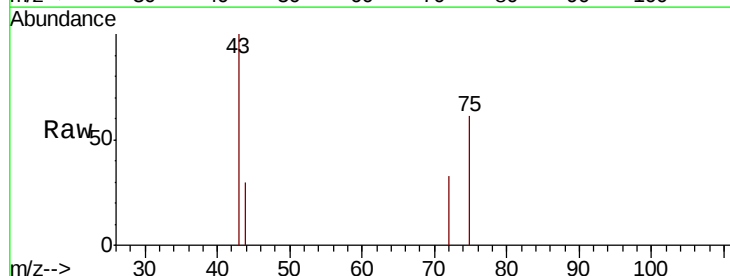


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

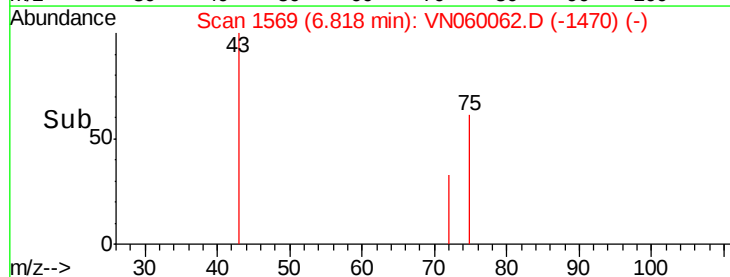
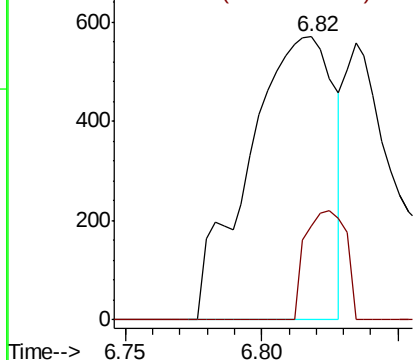


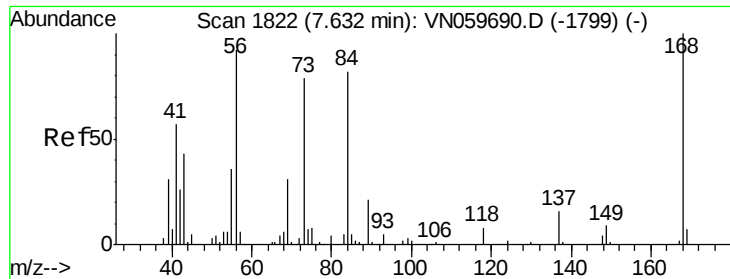
#25
2-Butanone
Concen: 1.041 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Tgt Ion: 43 Resp: 1231
Ion Ratio Lower Upper
43 100
72 33.2 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

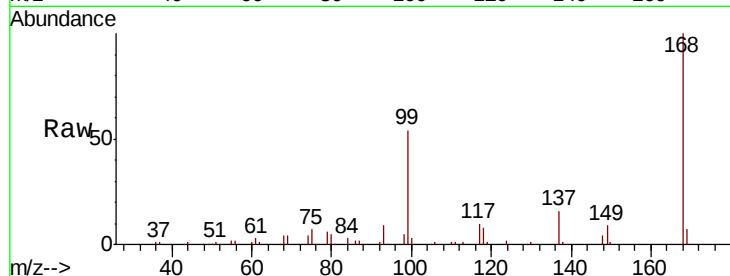




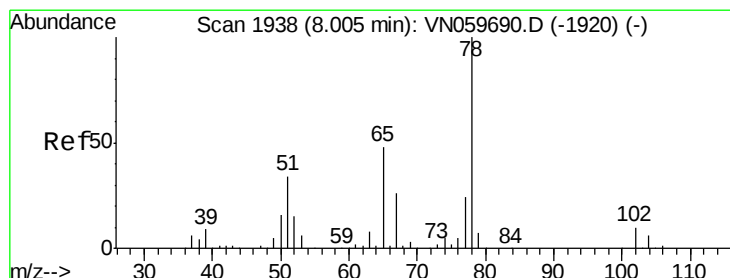
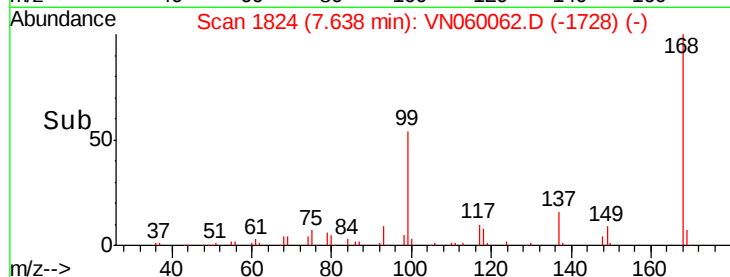
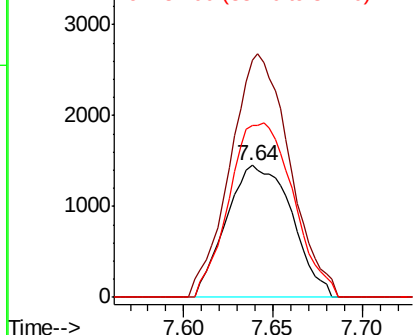
#31
Cyclohexane
Concen: 1.204 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3722
Ion Ratio Lower Upper
56 100
69 180.3 26.5 39.7#
84 130.9 65.3 97.9#

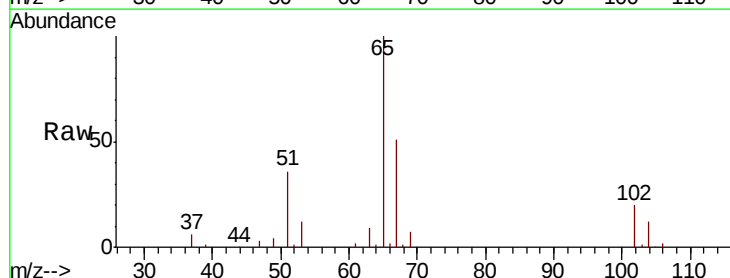


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

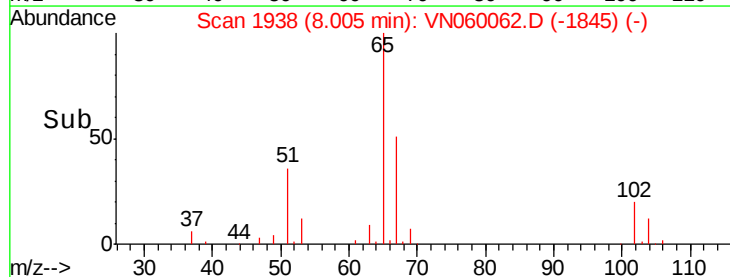
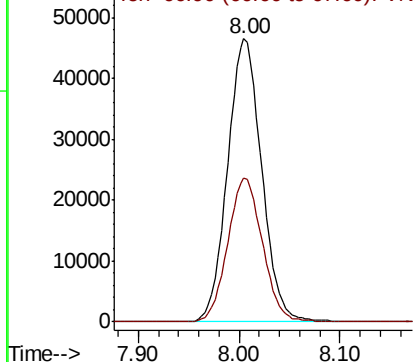


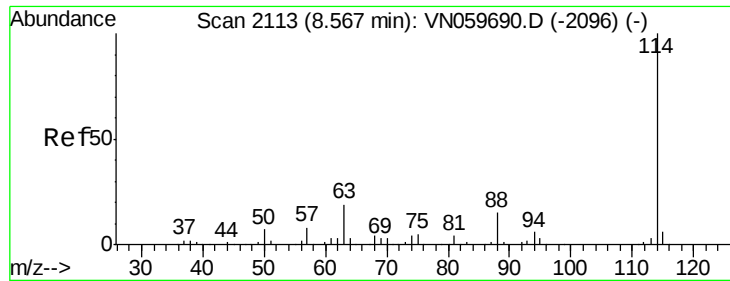
#33
1,2-Dichloroethane-d4
Concen: 52.461 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Tgt Ion: 65 Resp: 109597
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

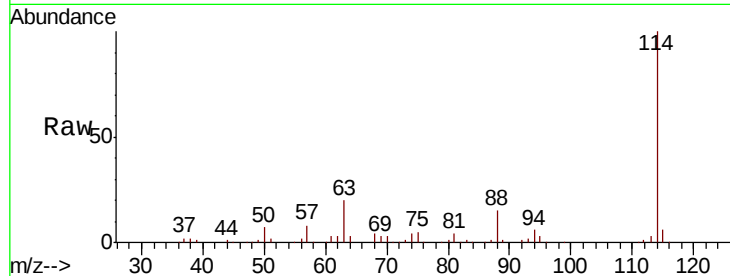




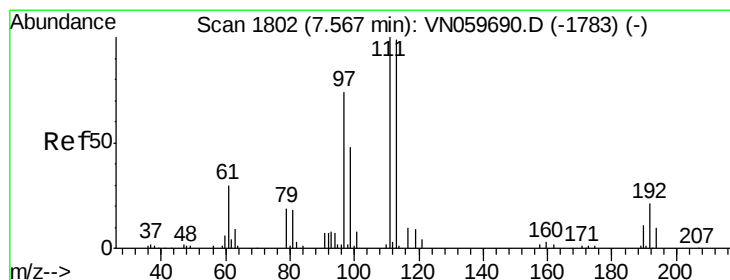
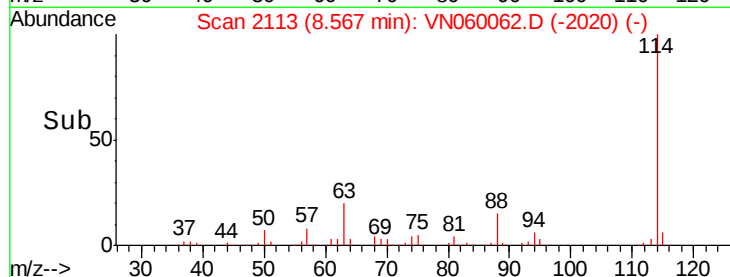
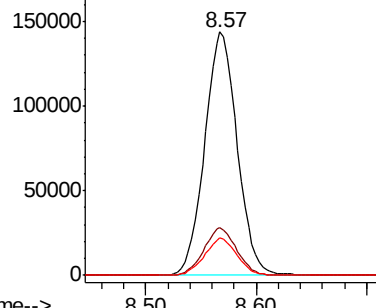
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 293579
Ion Ratio Lower Upper
114 100
63 19.7 0.0 43.6
88 15.3 0.0 31.4

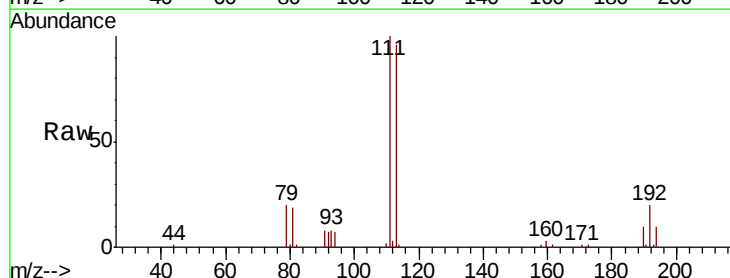


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

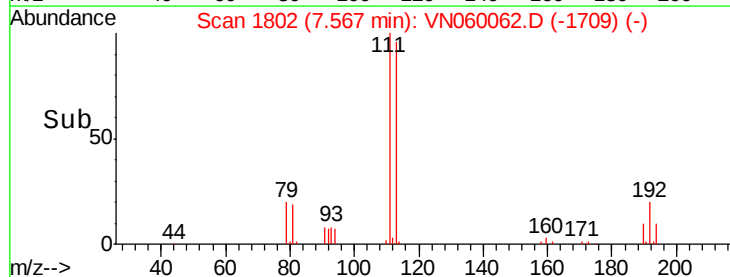
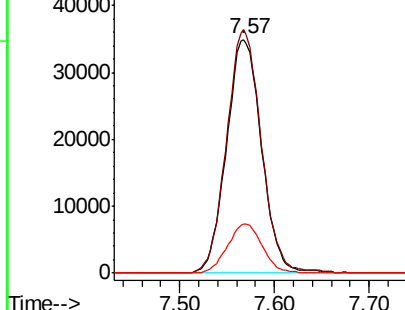


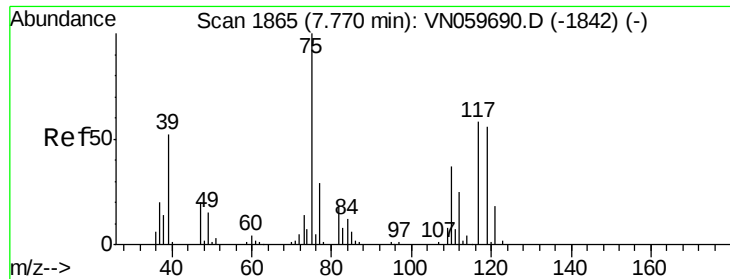
#35
Dibromofluoromethane
Concen: 51.361 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Tgt Ion:113 Resp: 89920
Ion Ratio Lower Upper
113 100
111 102.6 83.5 125.3
192 20.8 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.126 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

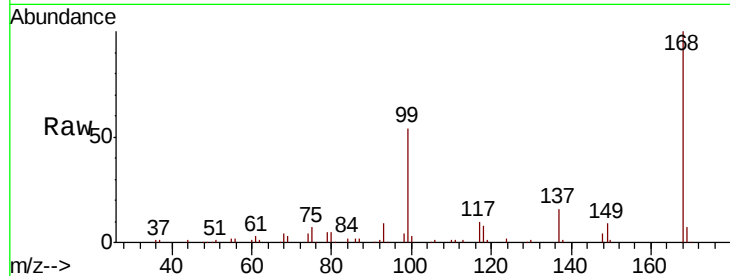
Tot Ion: 75 Resp: 13106

Ion Ratio Lower Upper

75 100

110 10.0 16.6 49.7#

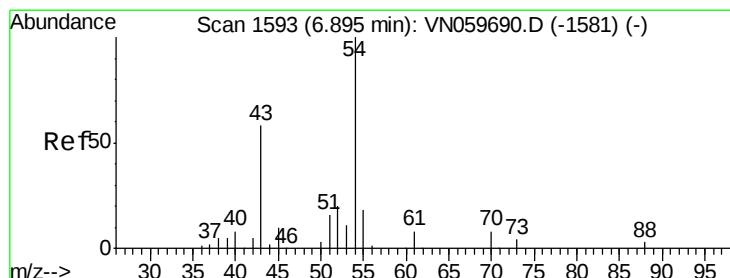
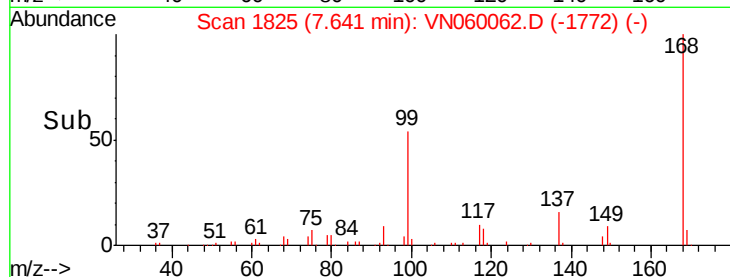
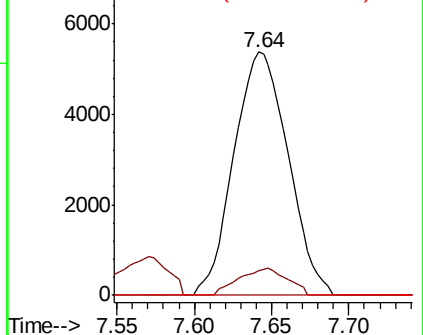
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.513 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.08 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

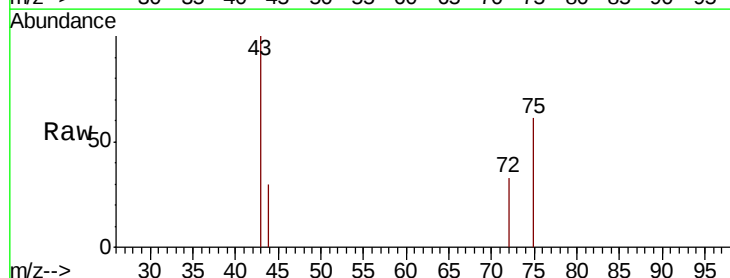
Tgt Ion: 43 Resp: 1231

Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

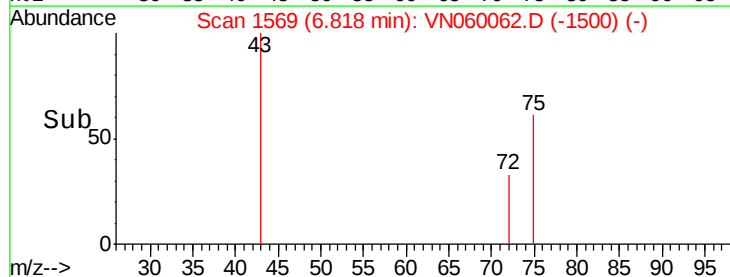
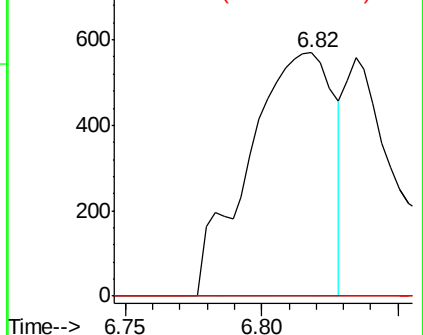
70 0.0 7.7 11.5#

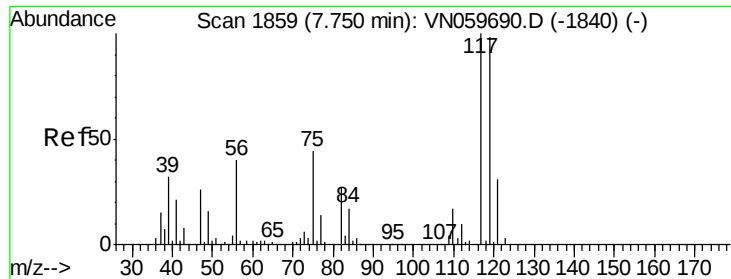


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.380 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :

MSVOA_N

ClientSampled :

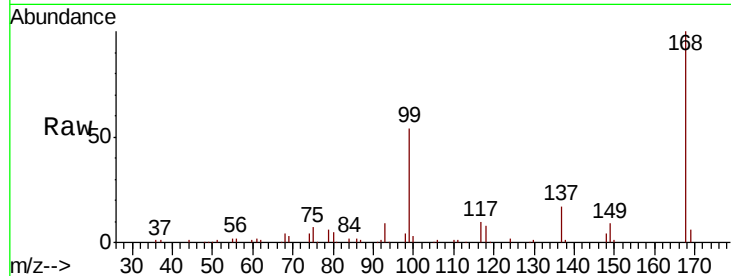
Tot Ion:117 Resp: 17742

Ion Ratio Lower Upper

117 100

119 4.8 76.5 114.7#

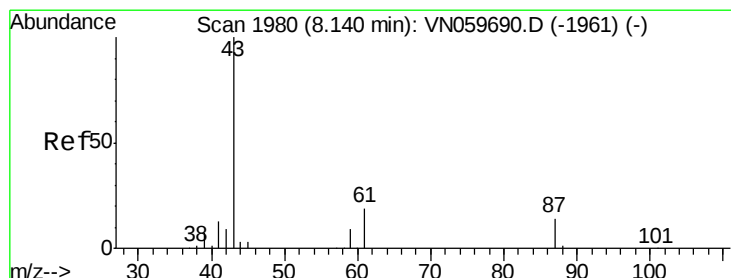
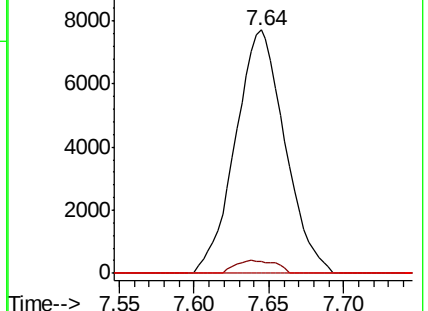
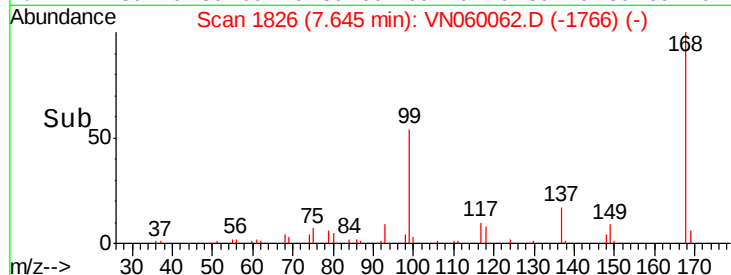
121 0.0 25.1 37.7#



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: 12.263 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

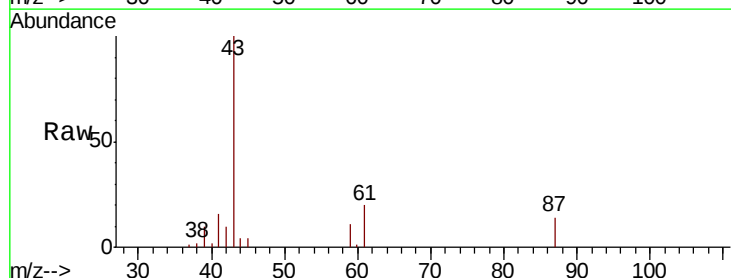
Tgt Ion: 43 Resp: 50579

Ion Ratio Lower Upper

43 100

61 20.4 20.2 30.2

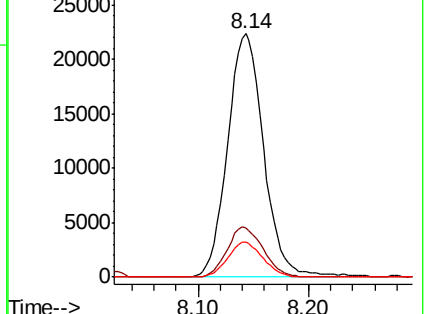
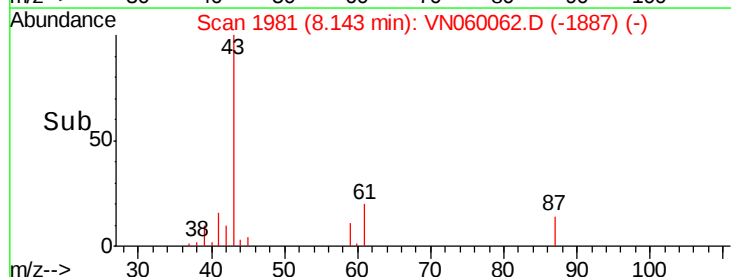
87 13.9 9.5 14.3

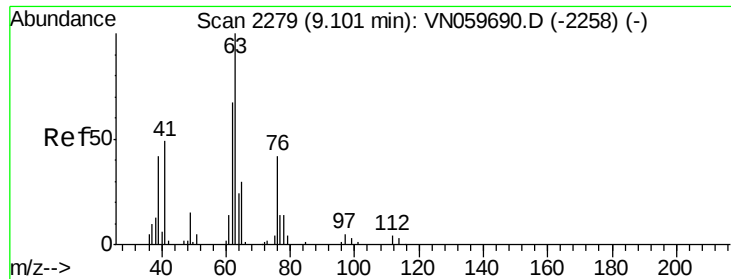


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

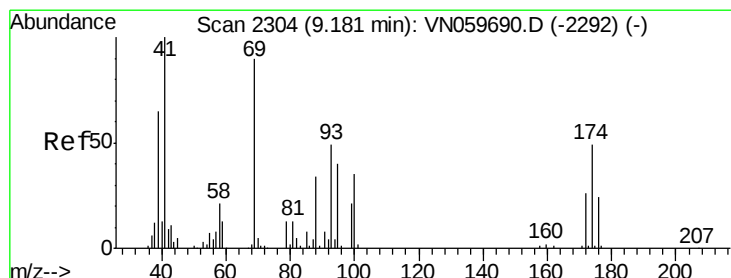
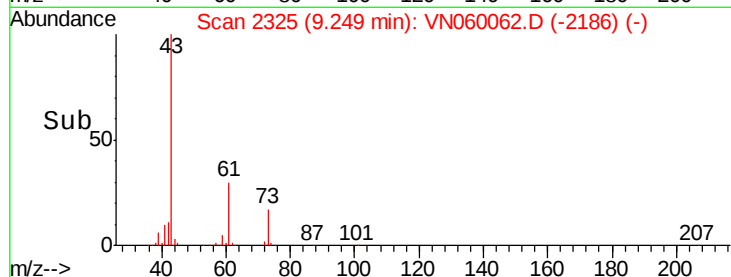
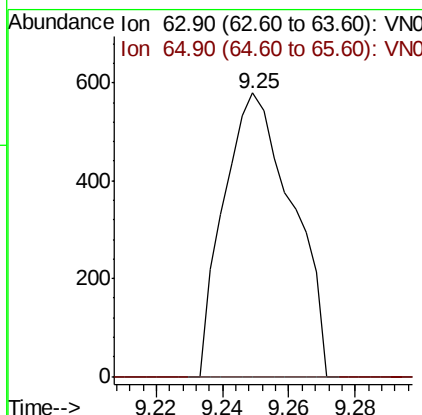
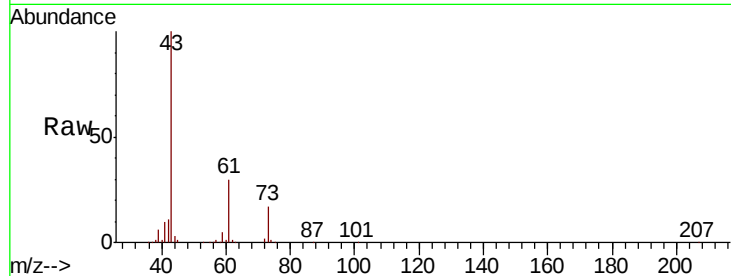




#45
 1,2-Dichloropropane
 Concen: 0.440 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060062.D
 Acq: 11 Feb 2020 13:56

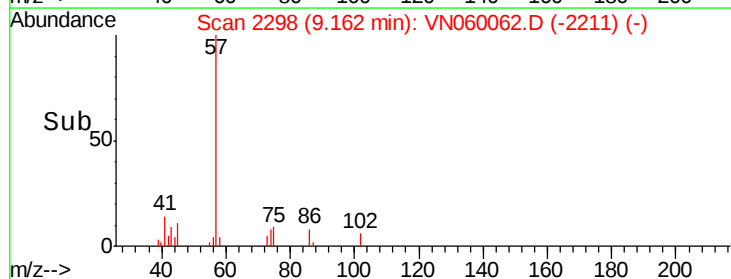
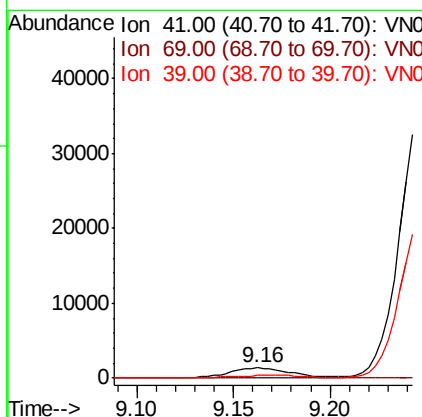
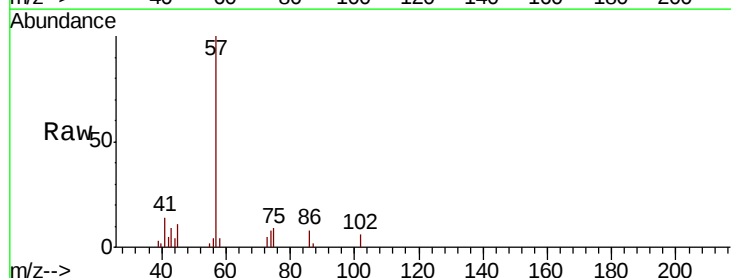
Instrument :
 MSVOA_N
 ClientSampleId :

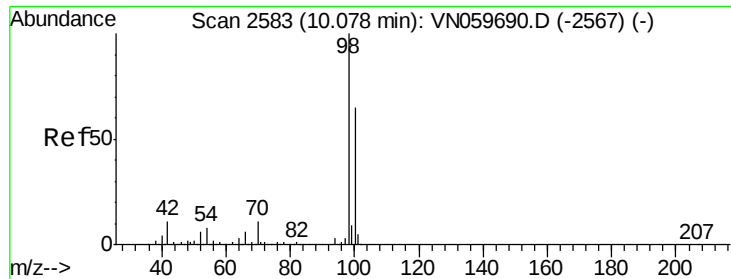
Tot Ion: 63 Resp: 831
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.623 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060062.D
 Acq: 11 Feb 2020 13:56

Tgt Ion: 41 Resp: 2995
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 53.358 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :

MSVOA_N

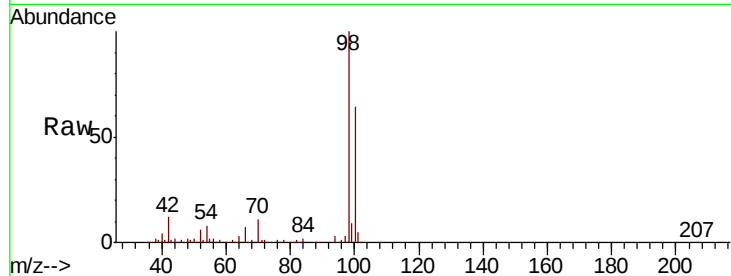
ClientSampled :

Tot Ion: 98 Resp: 361941

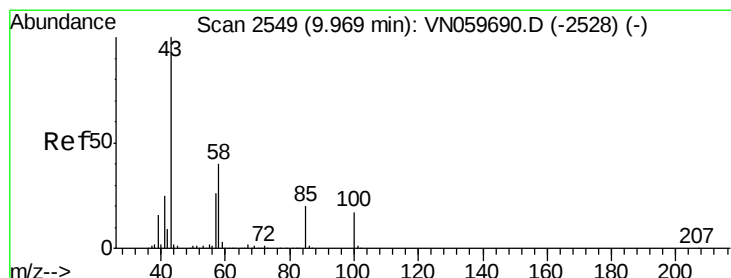
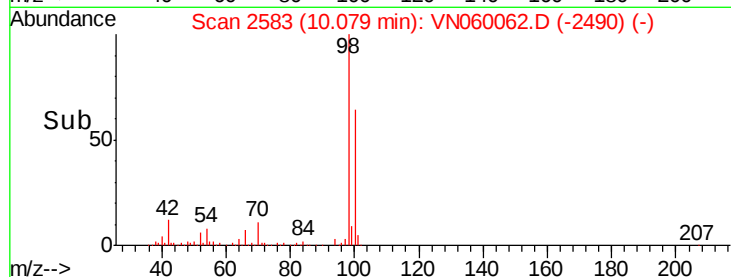
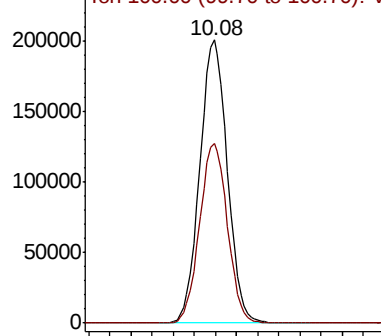
Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN060062.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.066 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060062.D

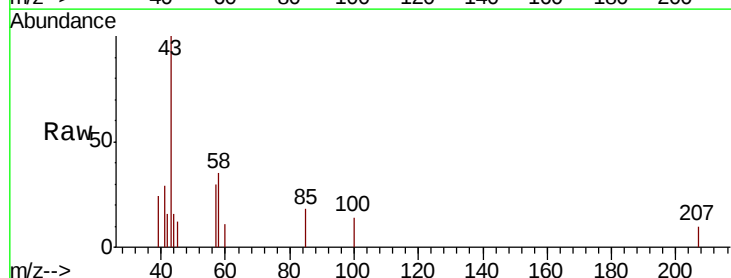
Acq: 11 Feb 2020 13:56

Tgt Ion: 43 Resp: 2542

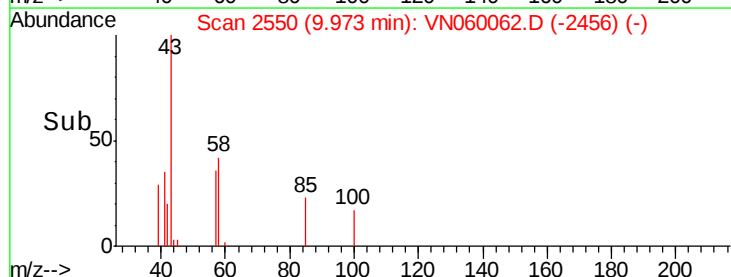
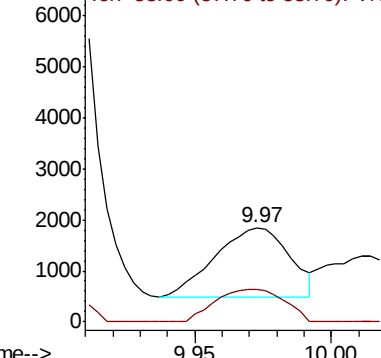
Ion Ratio Lower Upper

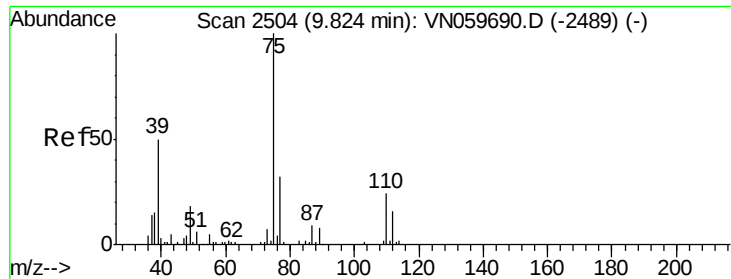
43 100

58 44.3 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN060062.D (-2456) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.466 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

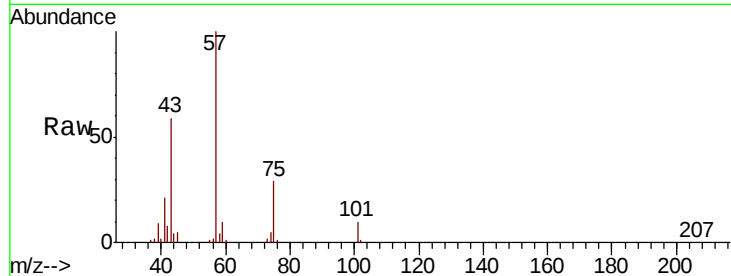
Tot Ion: 75 Resp: 23524

Ion Ratio Lower Upper

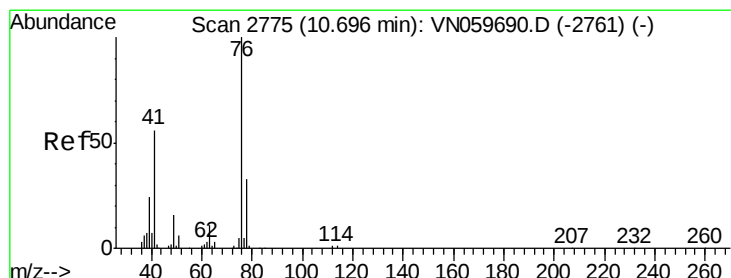
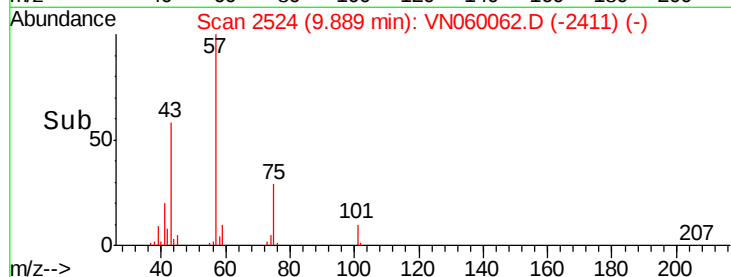
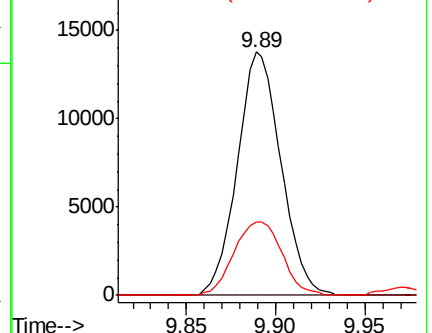
75 100

77 0.0 25.1 37.7#

39 30.0 46.1 69.1#



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: 1.303 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060062.D

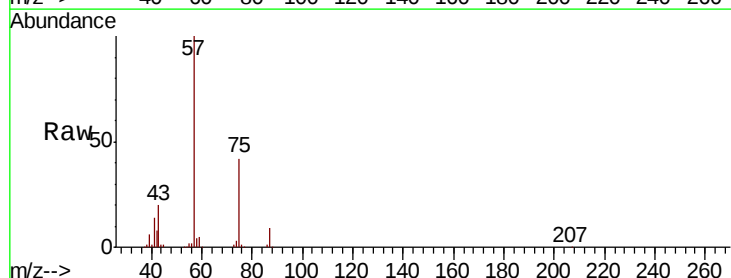
Acq: 11 Feb 2020 13:56

Tgt Ion: 76 Resp: 3945

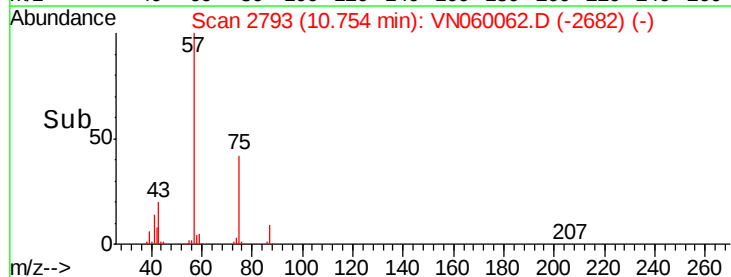
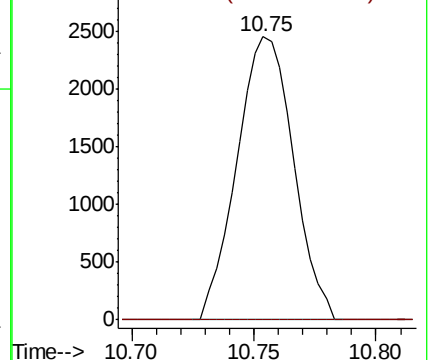
Ion Ratio Lower Upper

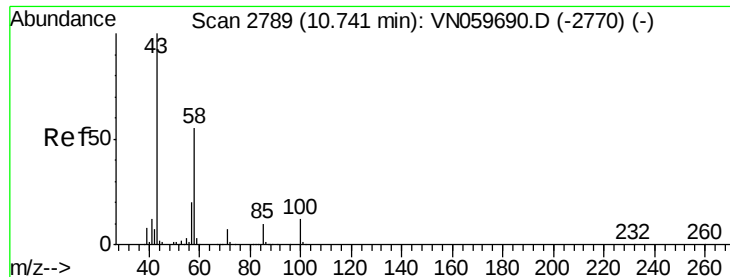
76 100

78 0.0 25.8 38.8#



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

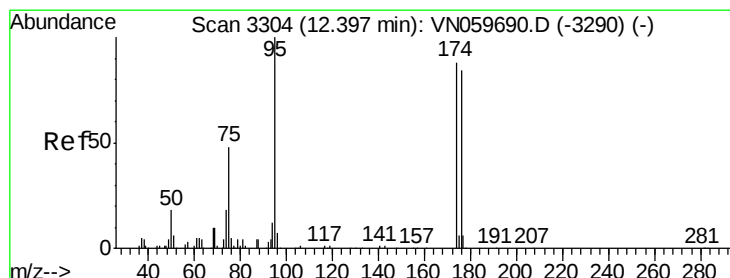
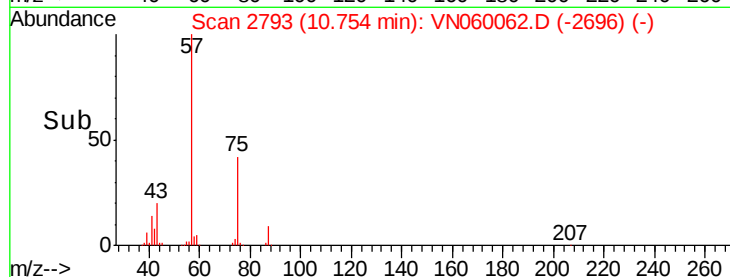
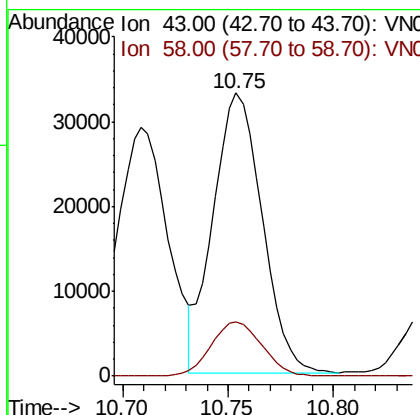
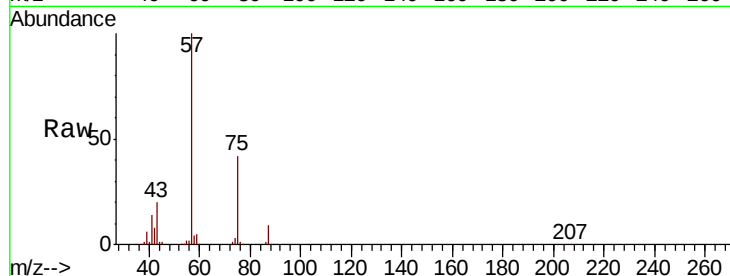




#59
2-Hexanone
Concen: 30.295 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

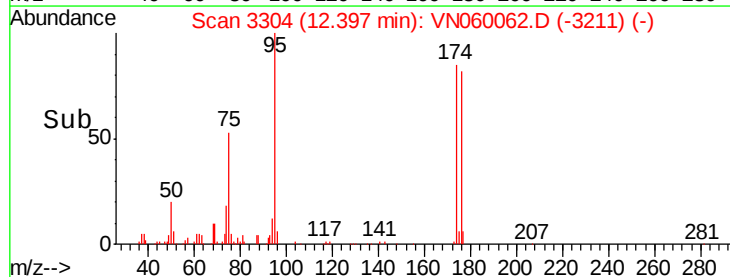
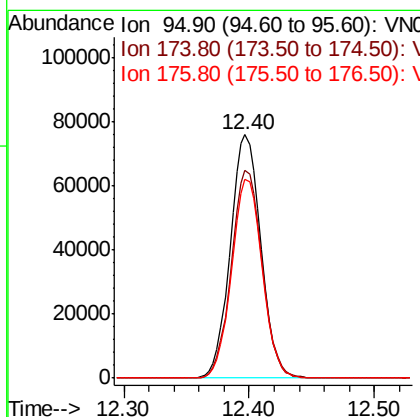
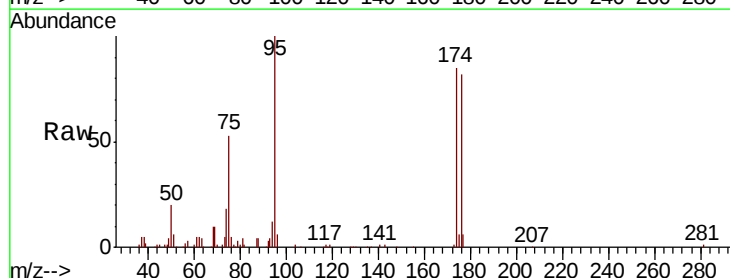
Instrument :
MSVOA_N
ClientSampled :

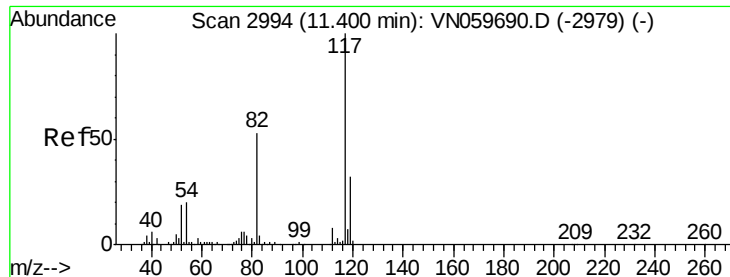
Tot Ion: 43 Resp: 53212
Ion Ratio Lower Upper
43 100
58 20.3 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 52.469 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Tgt Ion: 95 Resp: 128305
Ion Ratio Lower Upper
95 100
174 86.0 0.0 151.4
176 82.0 0.0 146.0

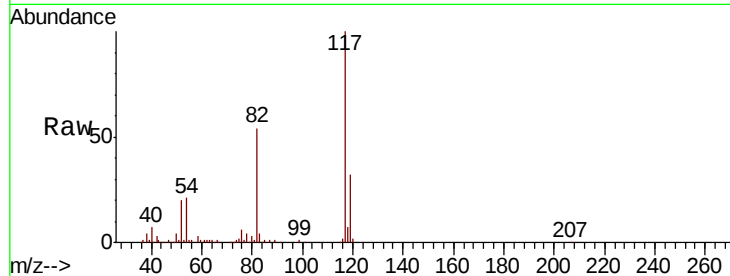




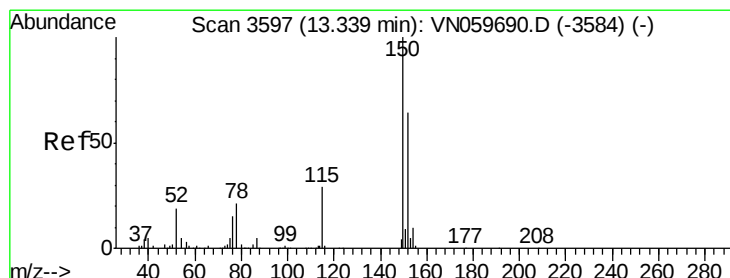
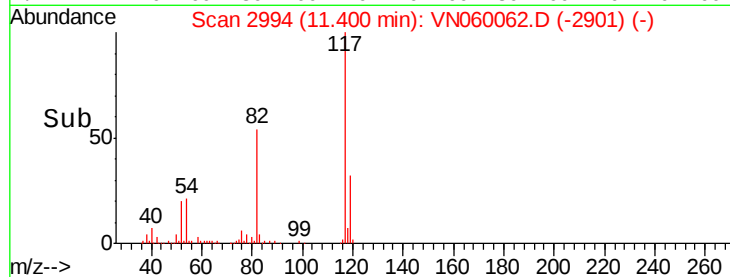
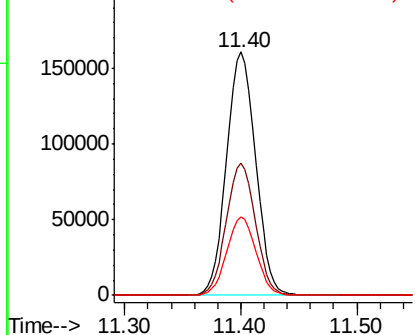
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 278231
Ion Ratio Lower Upper
117 100
82 54.1 45.9 68.9
119 32.2 25.5 38.3

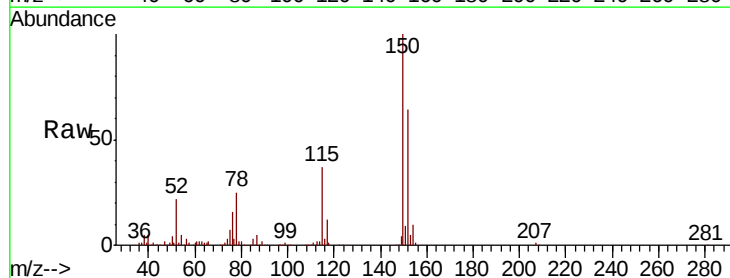


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

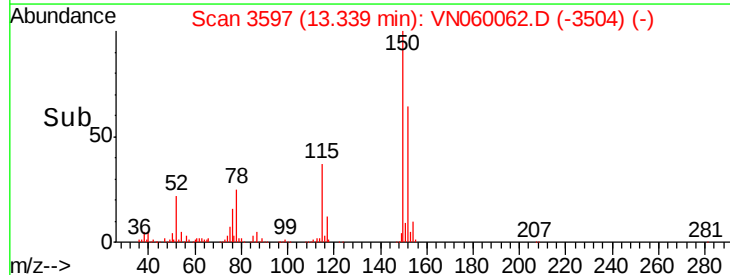
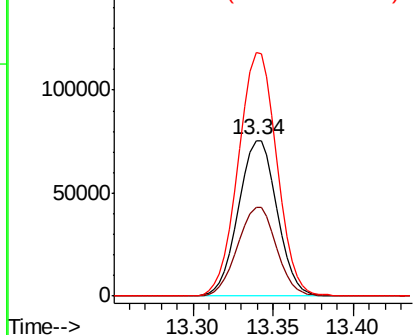


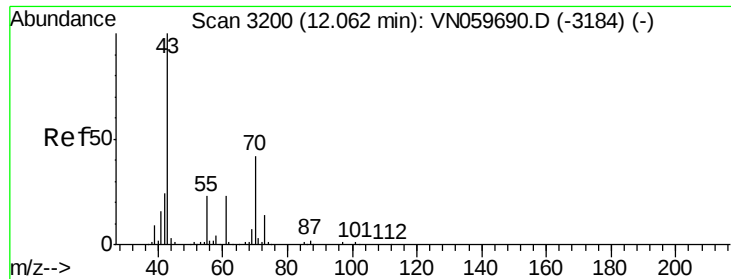
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060062.D
Acq: 11 Feb 2020 13:56

Tgt Ion:152 Resp: 124735
Ion Ratio Lower Upper
152 100
115 57.5 30.3 90.9
150 156.3 0.0 345.2



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-amvl acetate

Concen: 0.582 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2065

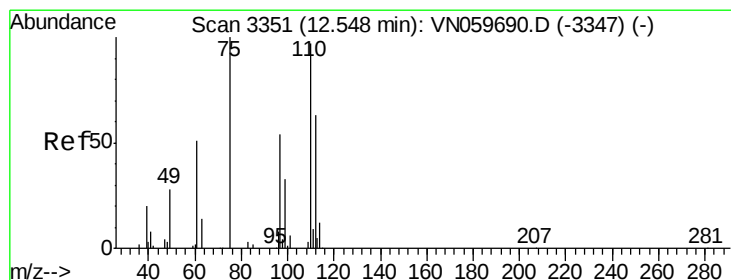
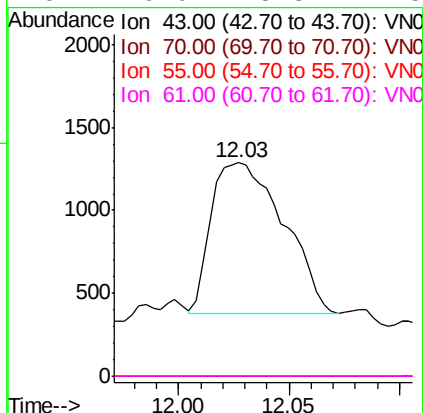
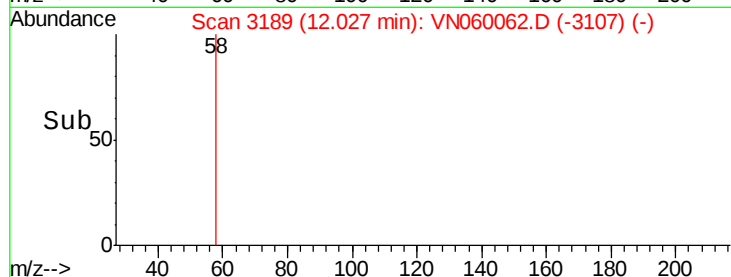
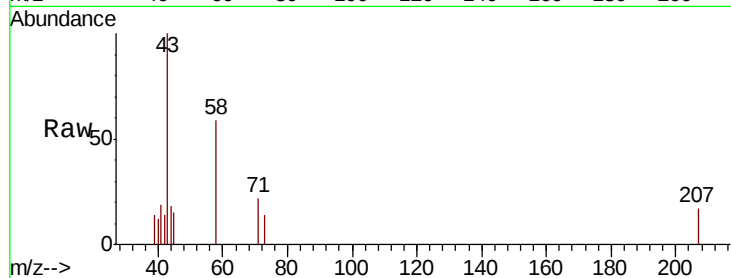
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#



#76

1,2,3-Trichloropropane

Concen: 32.115 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060062.D

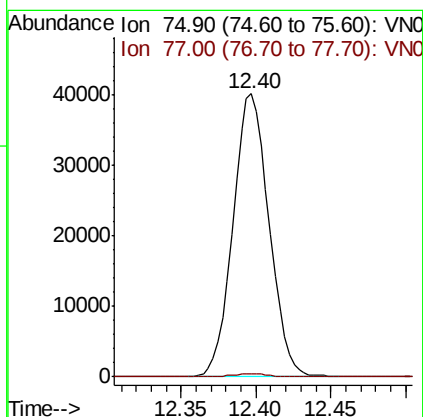
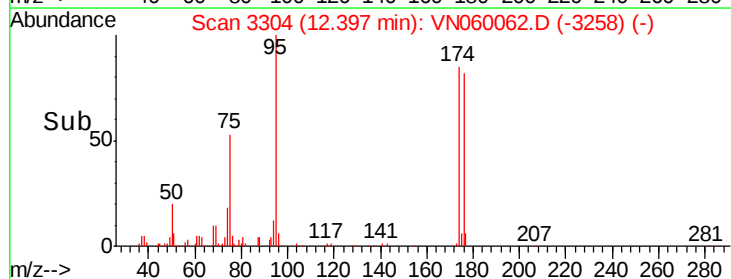
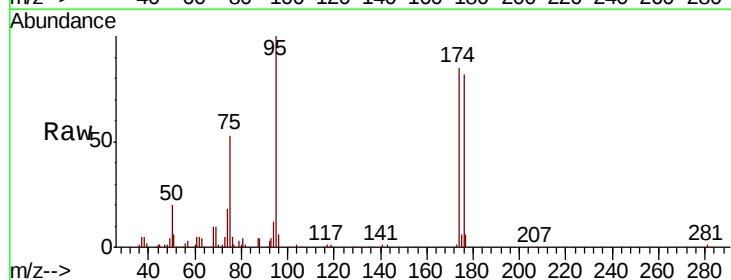
Acq: 11 Feb 2020 13:56

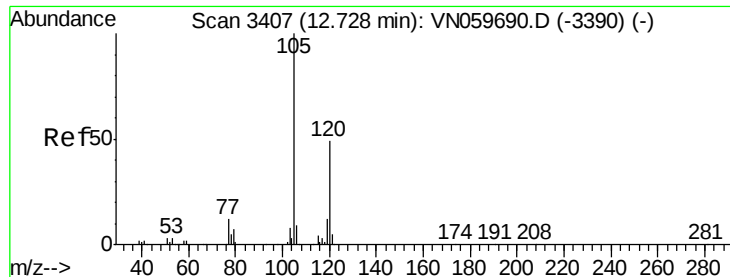
Tgt Ion: 75 Resp: 67414

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

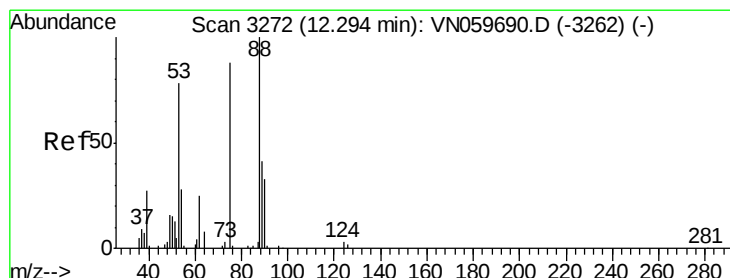
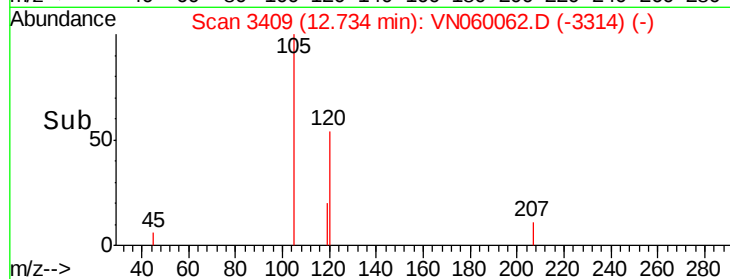
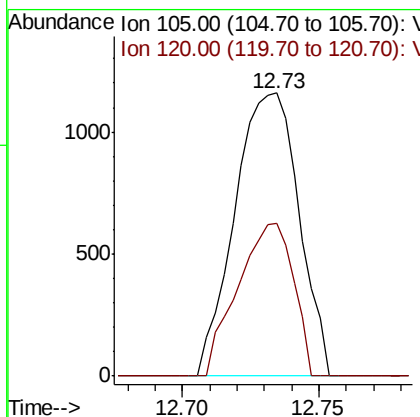
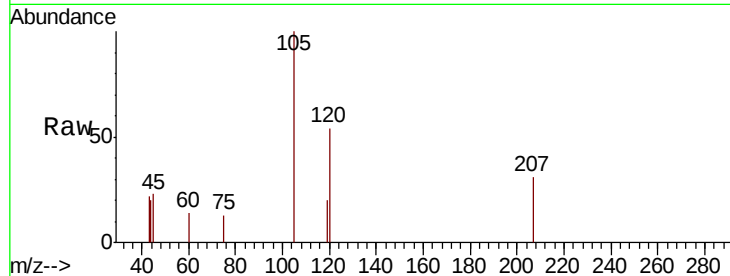




#80
 1,3,5-Trimethylbenzene
 Concen: 0.246 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.01 min
 Lab File: VN060062.D
 Acq: 11 Feb 2020 13:56

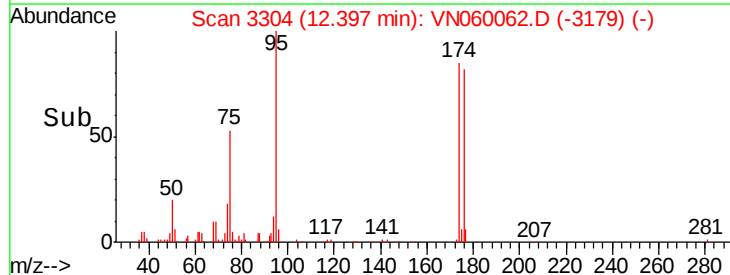
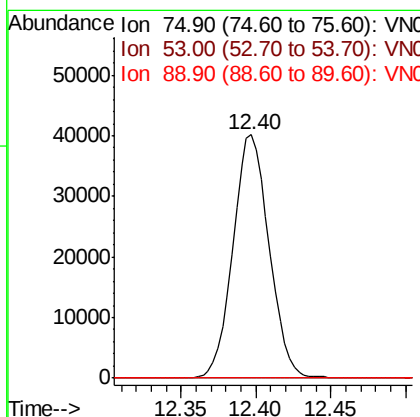
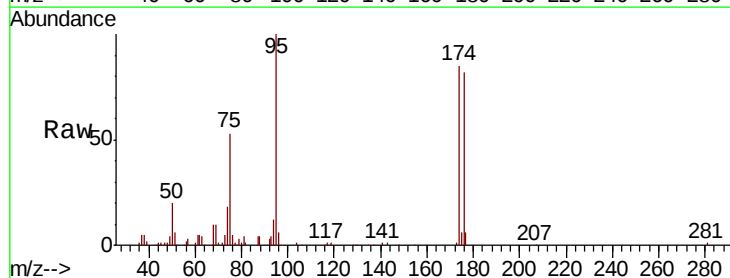
Instrument :
 MSVOA_N
 ClientSampled :

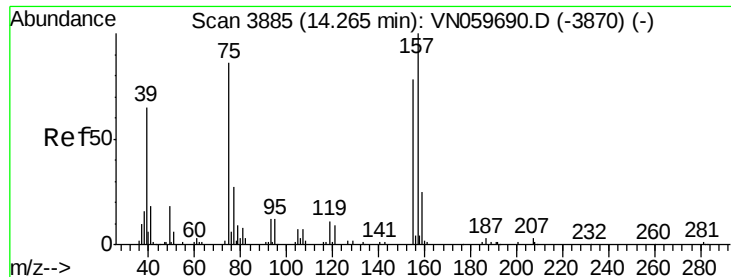
Tot Ion: 105 Resp: 1893
 Ion Ratio Lower Upper
 105 100
 120 46.8 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.966 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060062.D
 Acq: 11 Feb 2020 13:56

Tgt Ion: 75 Resp: 67414
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.24 min Scan# 3876

Delta R.T. -0.03 min

Lab File: VN060062.D

Acq: 11 Feb 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

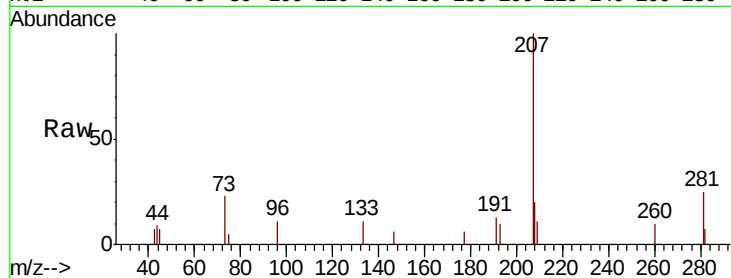
Tot Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060062.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060062.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060062.D (-3791) (-)

