

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060679.D
 Acq On : 24 Mar 2020 17:53
 Operator : JC/MD
 Sample : L1994-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:56:31 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	198042	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	330210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	313756	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146286	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	128783	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
35) Dibromofluoromethane	7.56	113	97545	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	10.08	98	407859	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.40	95	155024	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	

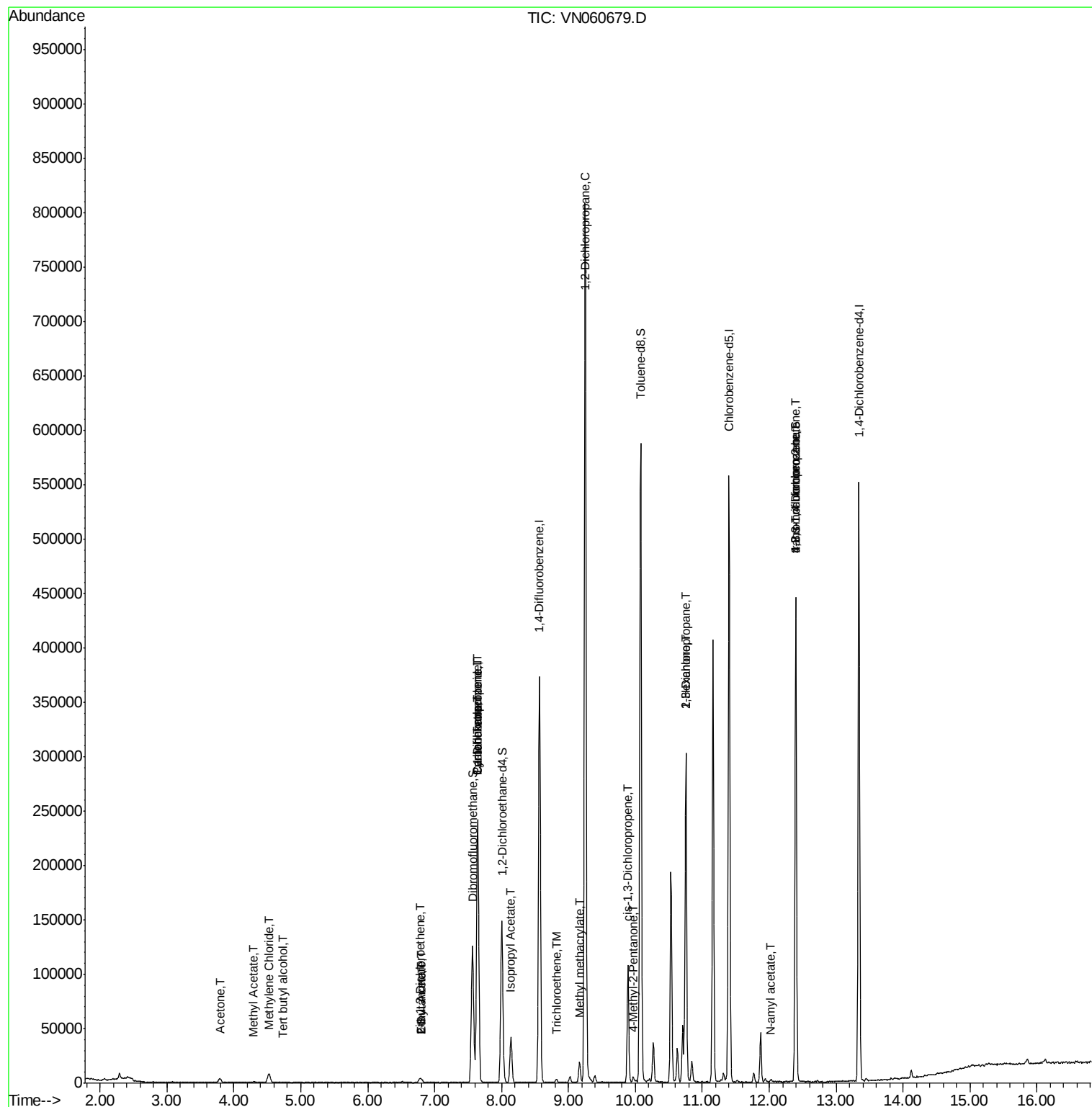
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	241	0.603	ug/l #	72
16) Acetone	3.79	43	7249	7.527	ug/l	98
18) Methyl Acetate	4.29	43	1698	0.626	ug/l #	58
20) Methylene Chloride	4.52	84	3136	1.324	ug/l	95
25) 2-Butanone	6.81	43	3207	2.058	ug/l #	90
27) cis-1,2-Dichloroethene	6.80	96	912	0.351	ug/l	85
31) Cyclohexane	7.64	56	4206	0.961	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15519	4.854	ug/l #	49
37) Ethyl Acetate	6.81	43	3207	0.928	ug/l #	47
38) Carbon Tetrachloride	7.64	117	19130	6.675	ug/l #	17
43) Isopropyl Acetate	8.14	43	48405	8.495	ug/l #	91
44) Trichloroethene	8.82	130	1276	0.524	ug/l	92
45) 1,2-Dichloropropane	9.25	63	884	0.347	ug/l #	43
48) Methyl methacrylate	9.16	41	2868	1.131	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3793	1.170	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	19148	4.749	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2992	0.769	ug/l #	42
59) 2-Hexanone	10.75	43	45421	19.447	ug/l #	54
74) N-amyl acetate	12.02	43	3256	0.642	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	78429	24.846	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78429	63.813	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: VN060679.D

Acq: 24 Mar 2020 17:53

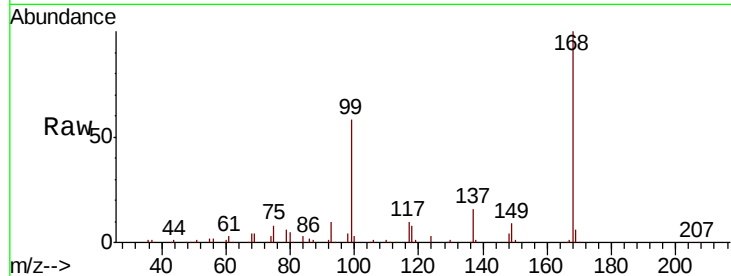
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 198042

Ion Ratio Lower Upper

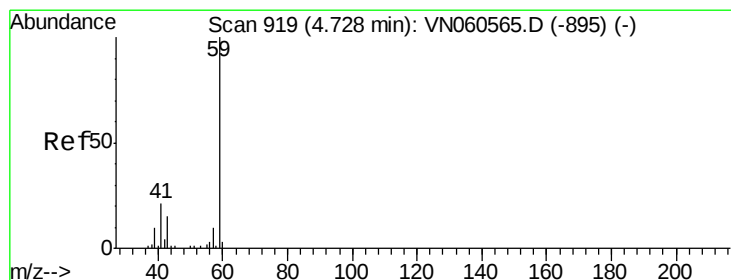
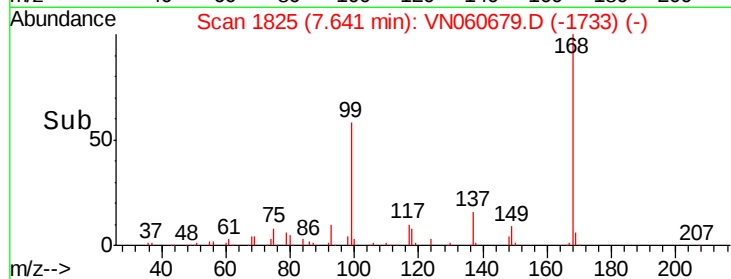
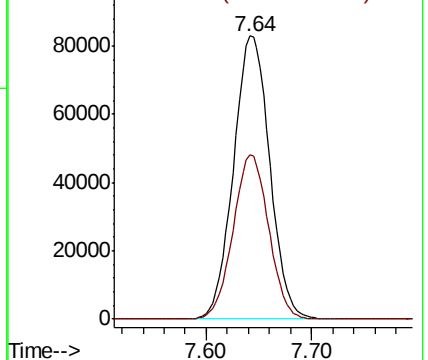
168 100

99 58.3 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: 0.603 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN060679.D

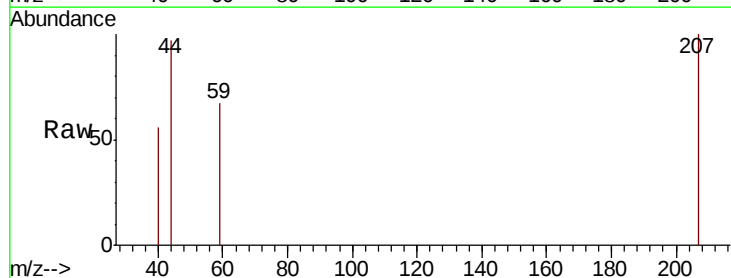
Acq: 24 Mar 2020 17:53

Tgt Ion: 59 Resp: 241

Ion Ratio Lower Upper

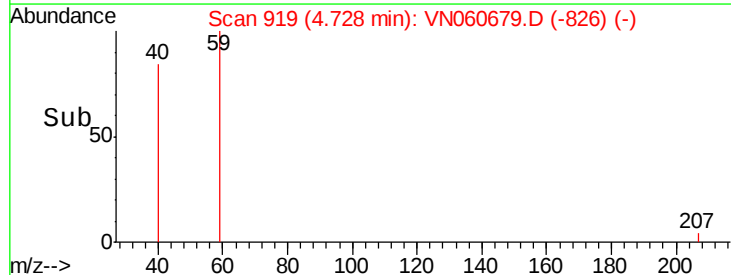
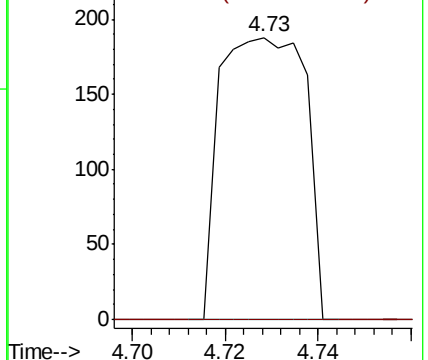
59 100

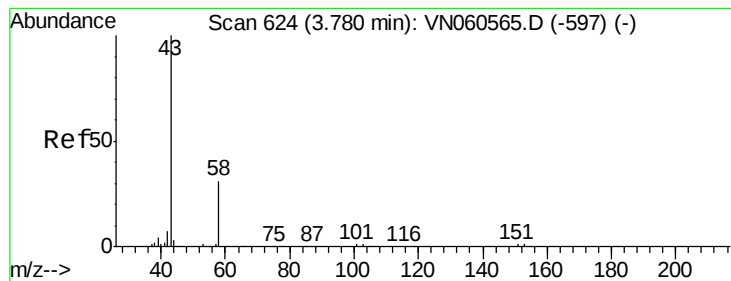
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 7.527 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

Instrument :

MSVOA_N

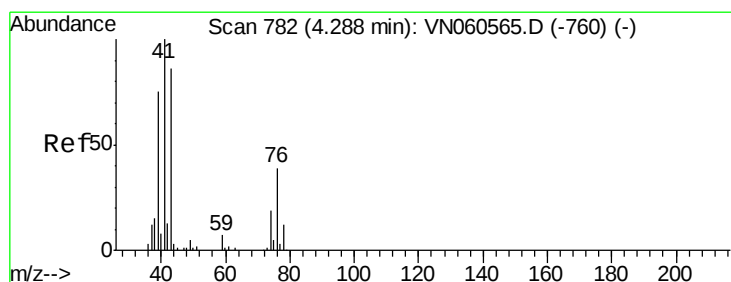
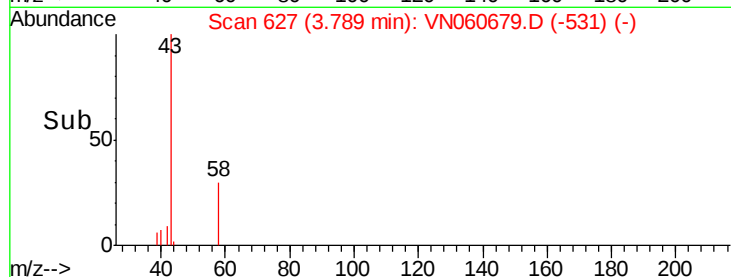
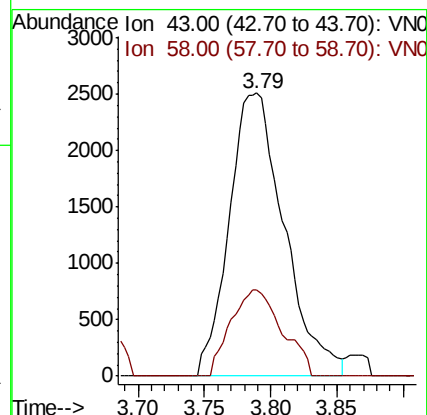
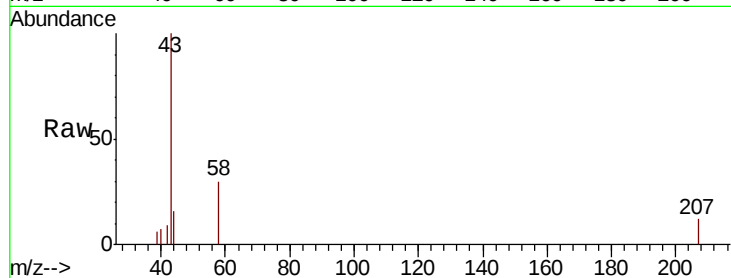
ClientSampleId :

Tot Ion: 43 Resp: 7249

Ion Ratio Lower Upper

43 100

58 30.5 25.1 37.7



#18

Methyl Acetate

Concen: 0.626 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060679.D

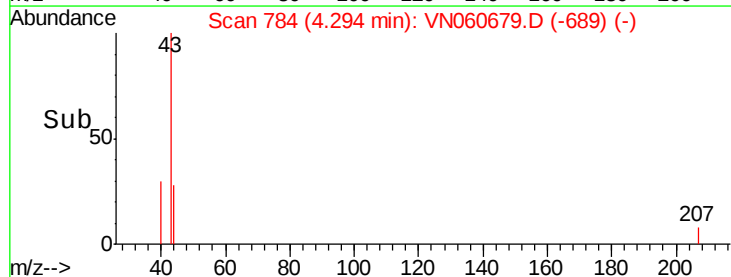
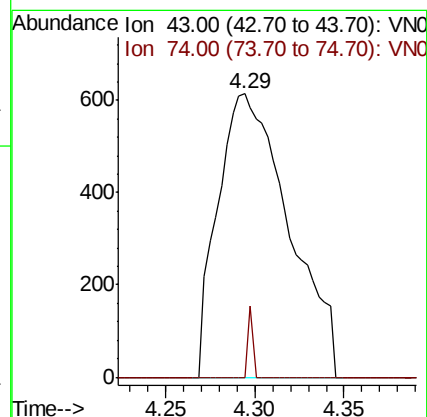
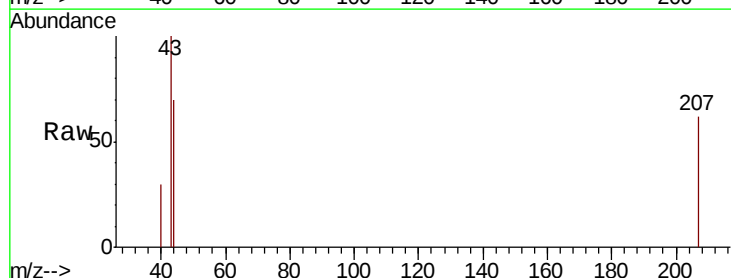
Acq: 24 Mar 2020 17:53

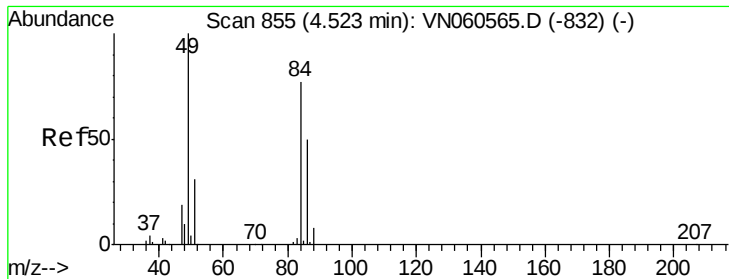
Tgt Ion: 43 Resp: 1698

Ion Ratio Lower Upper

43 100

74 1.8 17.5 26.3#

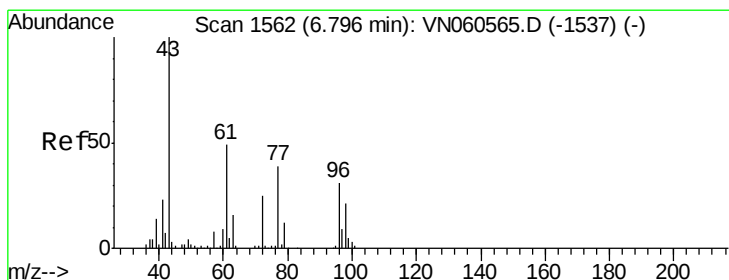
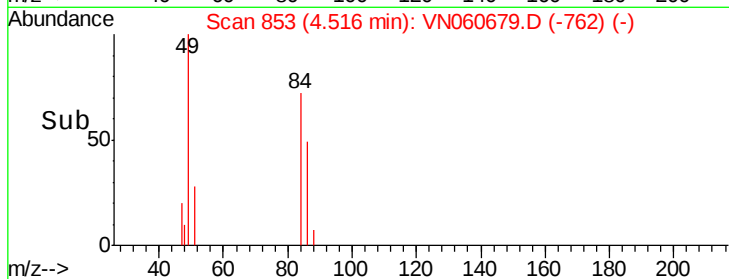
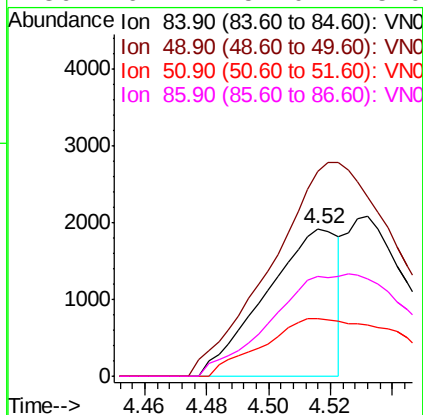
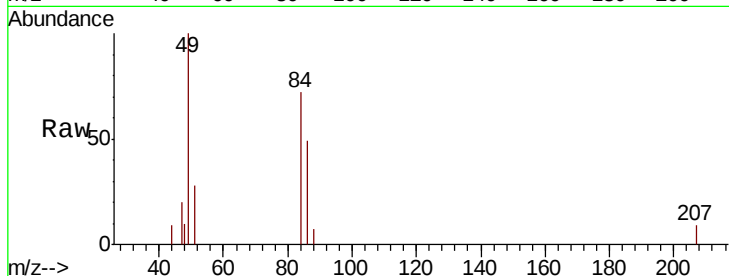




#20
Methvlene Chloride
Concen: 1.324 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

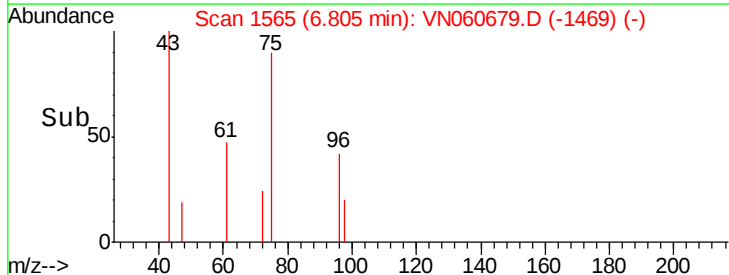
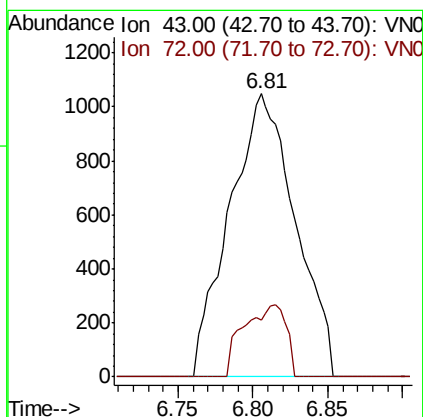
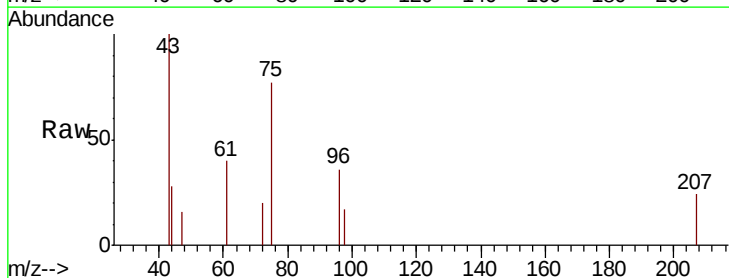
Instrument :
MSVOA_N
ClientSampled :

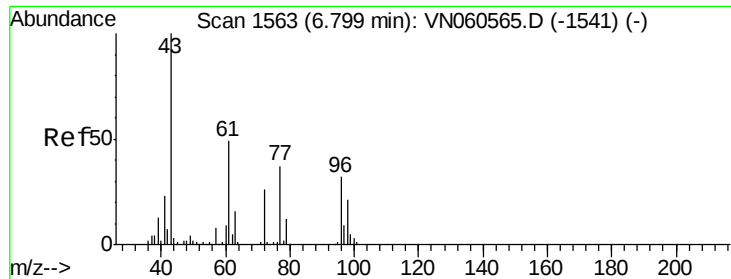
Tot Ion:	84	Resp:	3136
Ion	Ratio	Lower	Upper
84	100		
49	138.4	103.3	154.9
51	39.1	31.6	47.4
86	67.1	52.0	78.0



#25
2-Butanone
Concen: 2.058 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

Tgt Ion:	43	Resp:	3207
Ion	Ratio	Lower	Upper
43	100		
72	20.3	20.4	30.6#

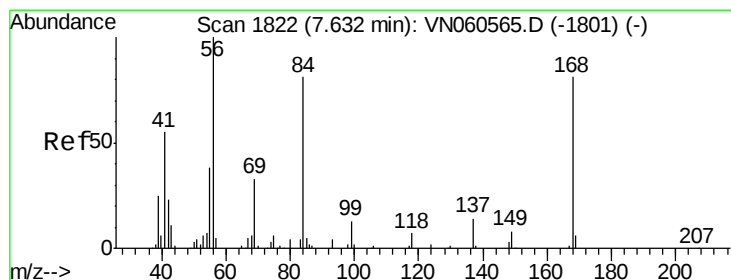
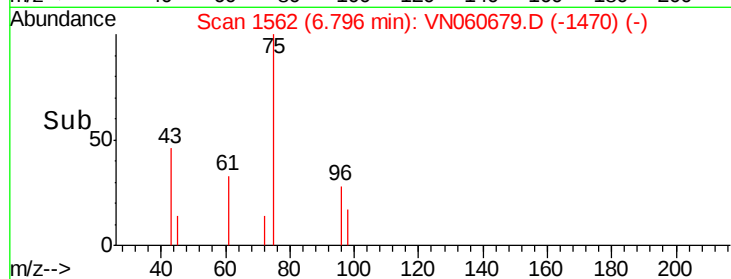
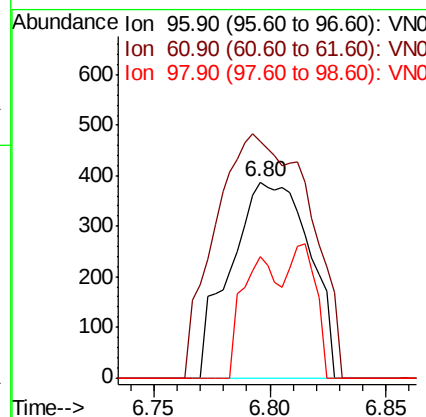
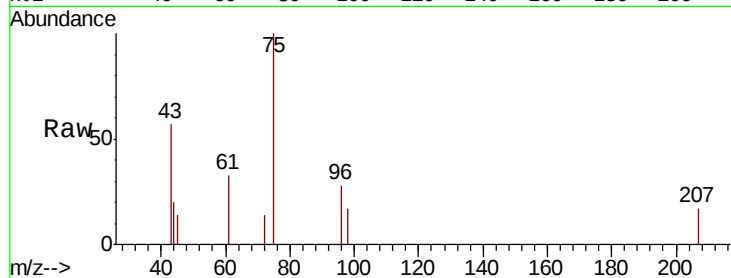




#27
 cis-1,2-Dichloroethene
 Concen: 0.351 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VN060679.D
 Acq: 24 Mar 2020 17:53

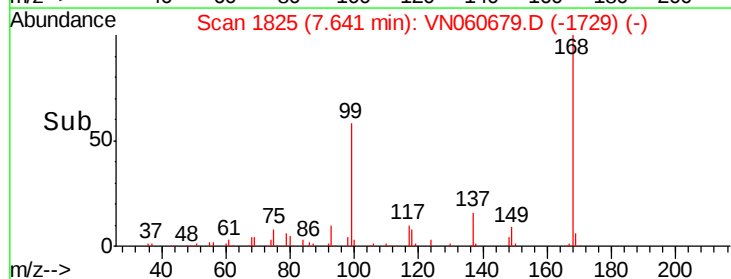
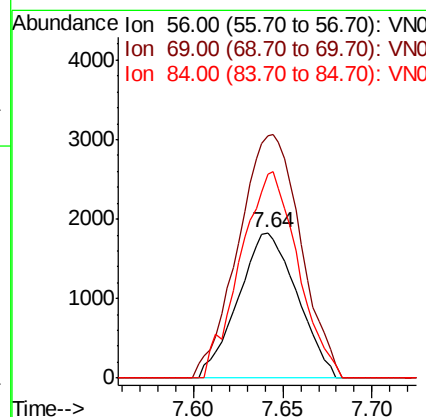
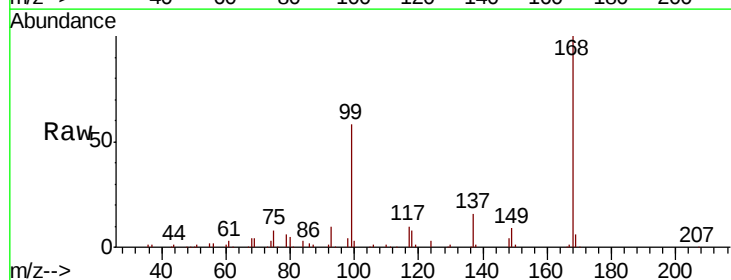
Instrument :
 MSVOA_N
 ClientSampled :

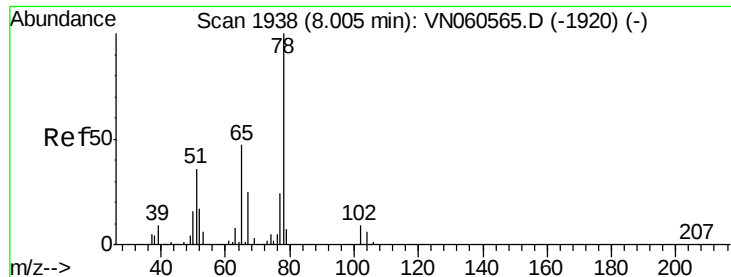
Tot Ion: 96 Resp: 912
 Ion Ratio Lower Upper
 96 100
 61 148.5 0.0 305.6
 98 29.4 0.0 127.6



#31
 Cyclohexane
 Concen: 0.961 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. 0.01 min
 Lab File: VN060679.D
 Acq: 24 Mar 2020 17:53

Tgt Ion: 56 Resp: 4206
 Ion Ratio Lower Upper
 56 100
 69 166.6 26.6 40.0#
 84 140.3 64.3 96.5#

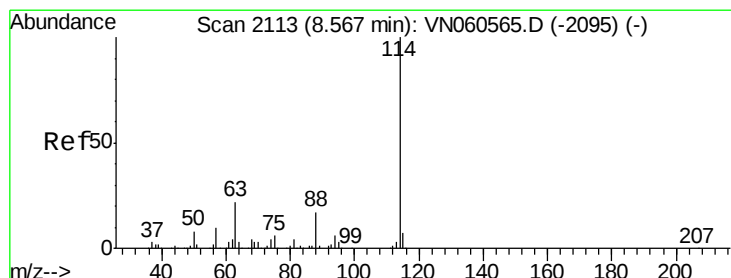
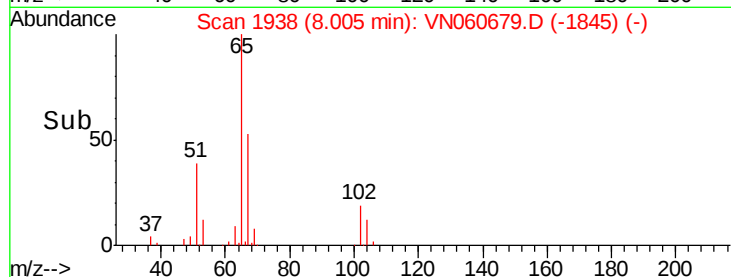
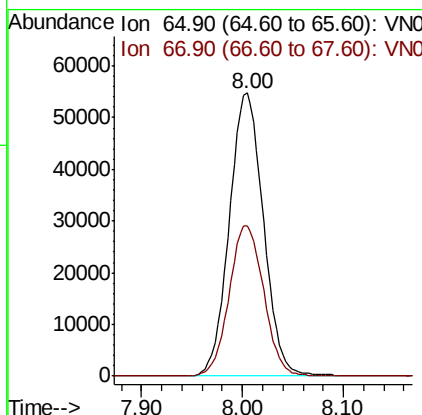
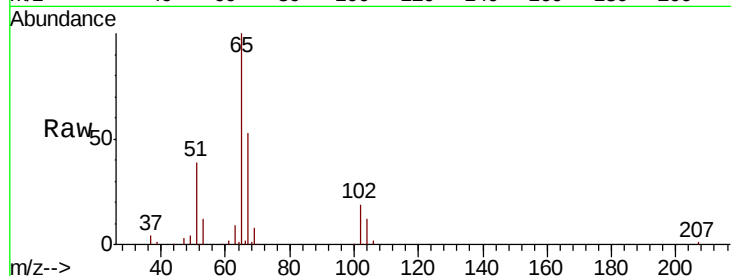




#33
 1,2-Dichloroethane-d4
 Concen: 47.370 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060679.D
 Acq: 24 Mar 2020 17:53

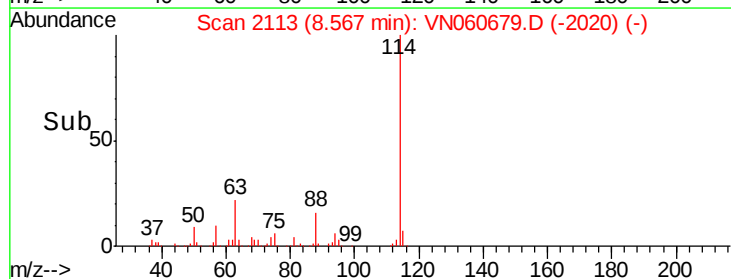
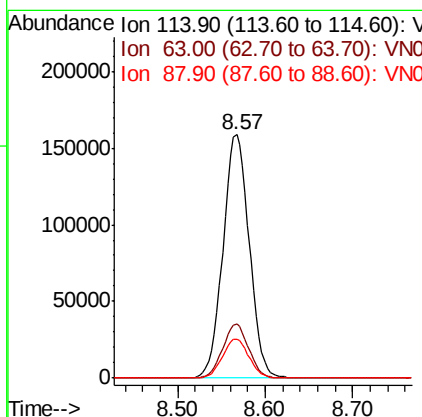
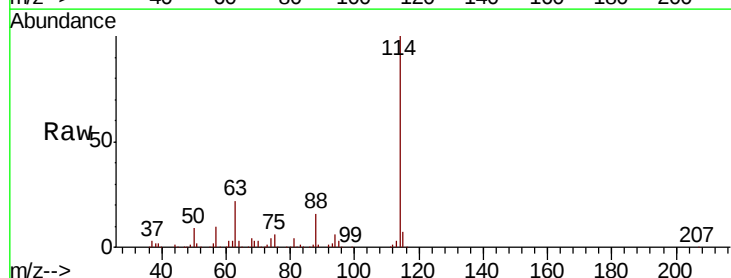
Instrument :
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 ClientSampleId :

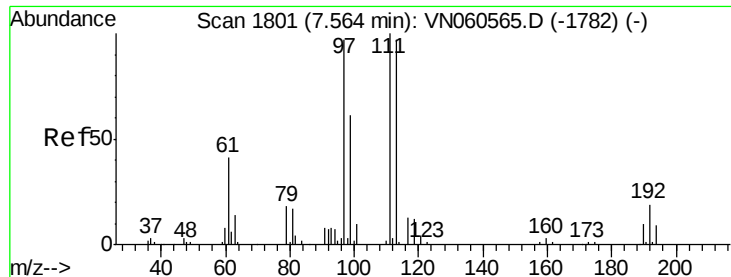
Tot Ion: 65 Resp: 128783
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060679.D
 Acq: 24 Mar 2020 17:53

Tgt Ion: 114 Resp: 330210
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.8
 88 15.9 0.0 33.0

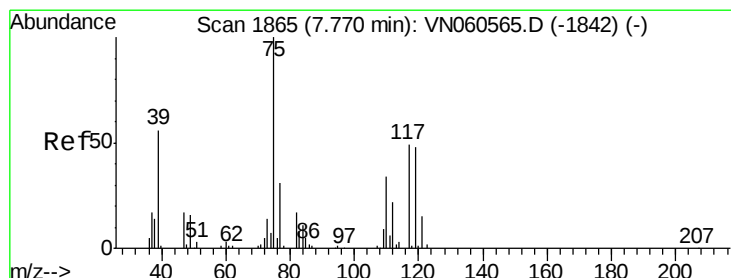
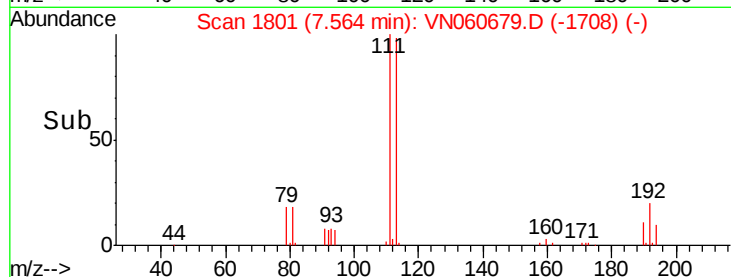
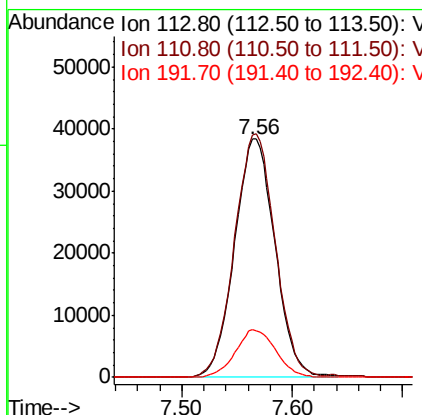
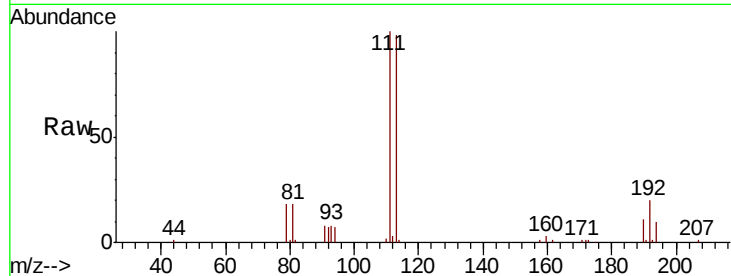




#35
 Dibromofluoromethane
 Concen: 48.854 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060679.D
 Acq: 24 Mar 2020 17:53

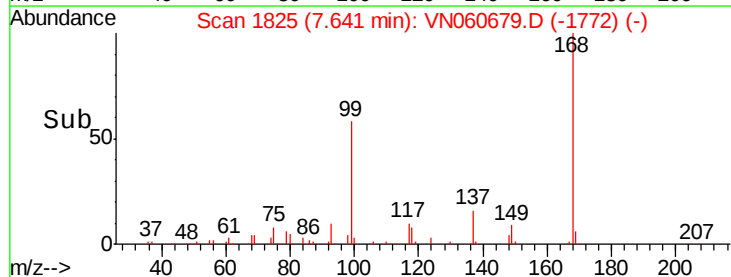
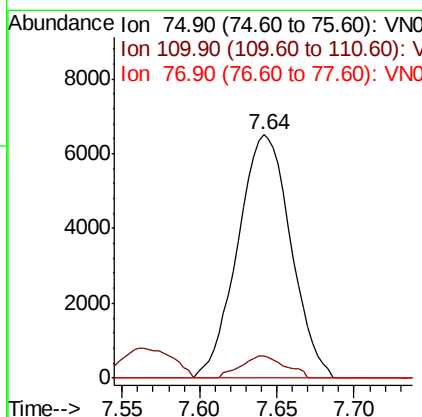
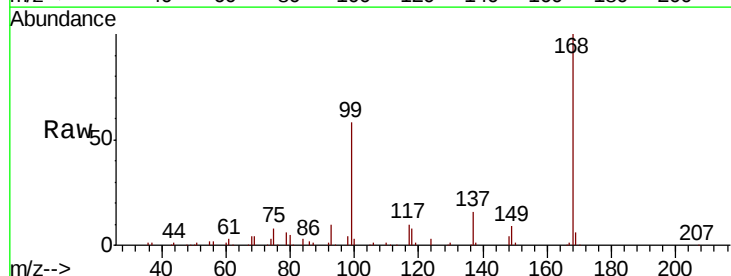
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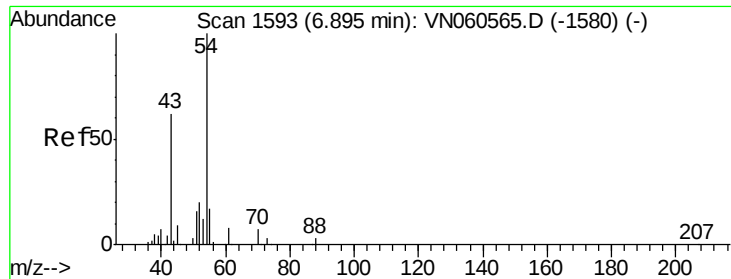
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.9	124.3
192	19.8	15.8	23.8



#36
 1,1-Dichloropropene
 Concen: 4.854 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060679.D
 Acq: 24 Mar 2020 17:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.9	50.6#
77	0.0	24.6	36.8#

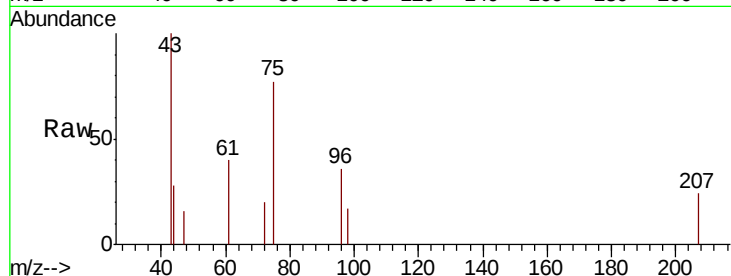




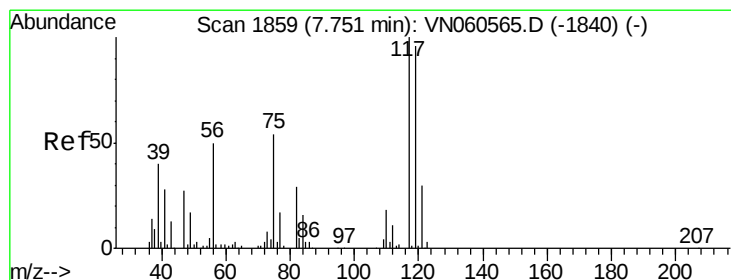
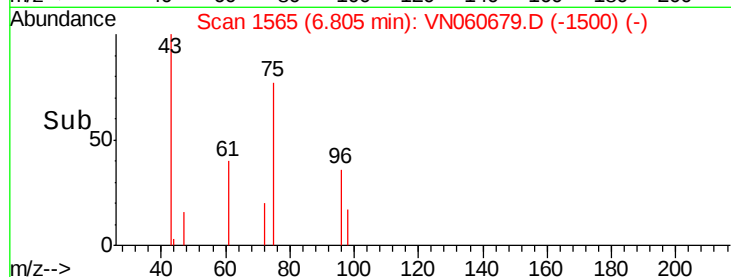
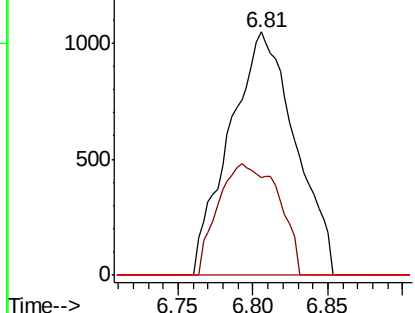
#37
Ethyl Acetate
Concen: 0.928 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3207
Ion Ratio Lower Upper
43 100
61 42.2 10.6 15.8#
70 0.0 7.9 11.9#

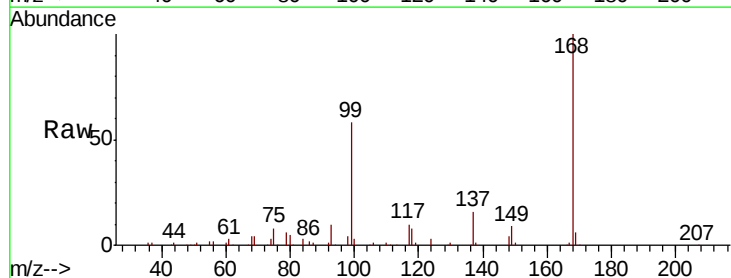


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

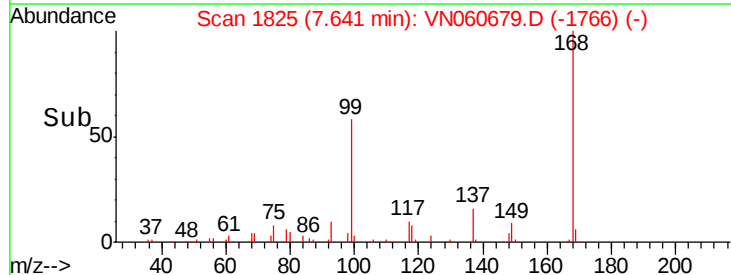
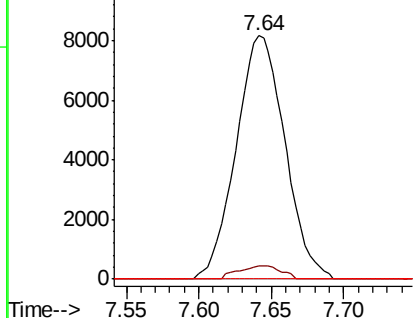


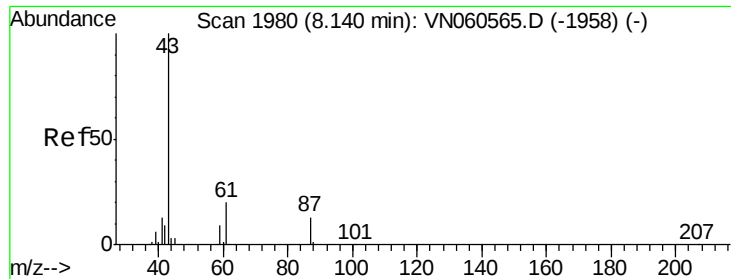
#38
Carbon Tetrachloride
Concen: 6.675 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

Tgt Ion: 117 Resp: 19130
Ion Ratio Lower Upper
117 100
119 5.5 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: 8.495 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampled :

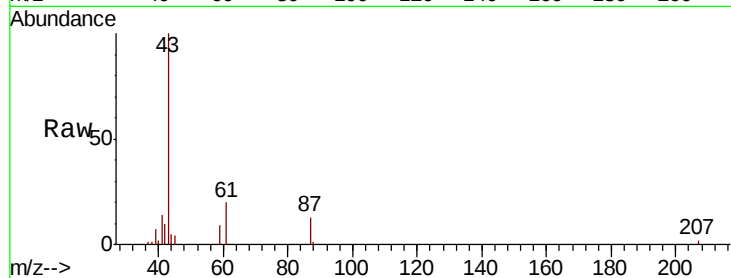
Tot Ion: 43 Resp: 48405

Ion Ratio Lower Upper

43 100

61 19.0 20.7 31.1#

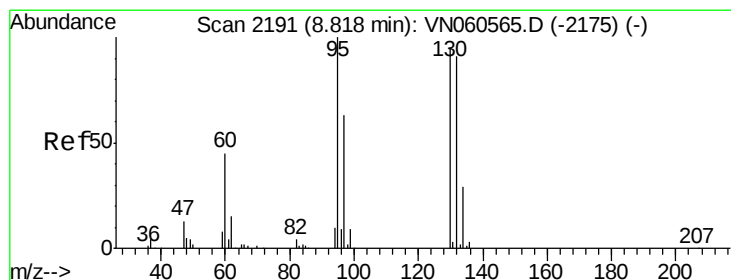
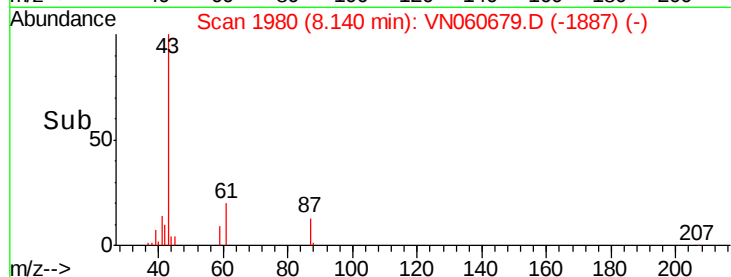
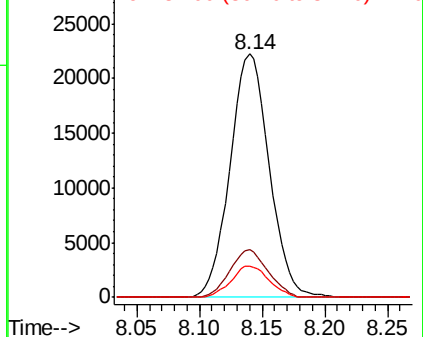
87 12.4 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060565.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060565.D (-1958) (-)



#44

Trichloroethene

Concen: 0.524 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VN060679.D

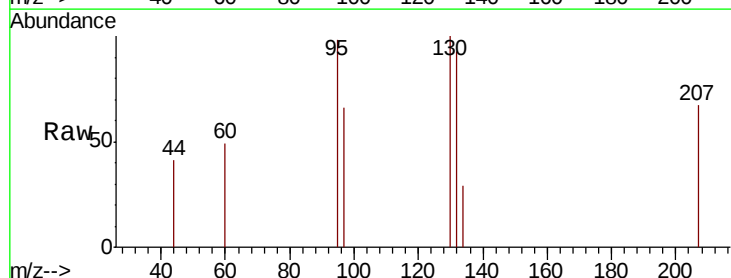
Acq: 24 Mar 2020 17:53

Tgt Ion: 130 Resp: 1276

Ion Ratio Lower Upper

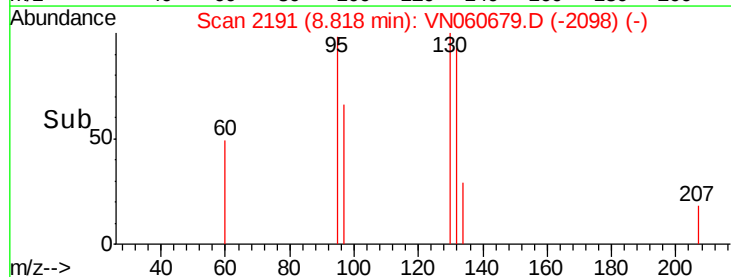
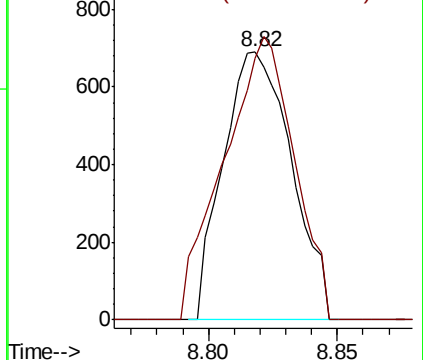
130 100

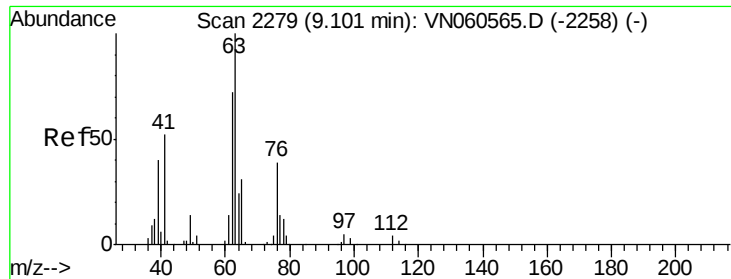
95 97.5 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): VN060565.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN060565.D (-2175) (-)





#45

1,2-Dichloropropane

Concen: 0.347 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

Instrument :

MSVOA_N

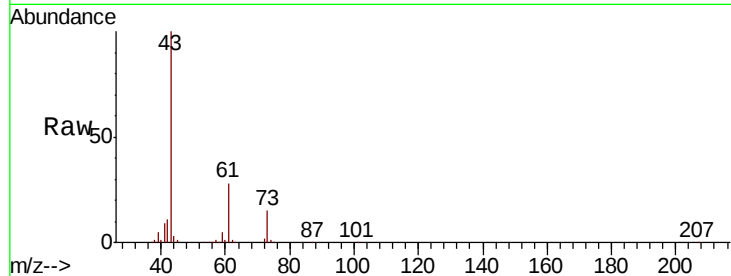
ClientSampleId :

Tot Ion: 63 Resp: 884

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

600

500

400

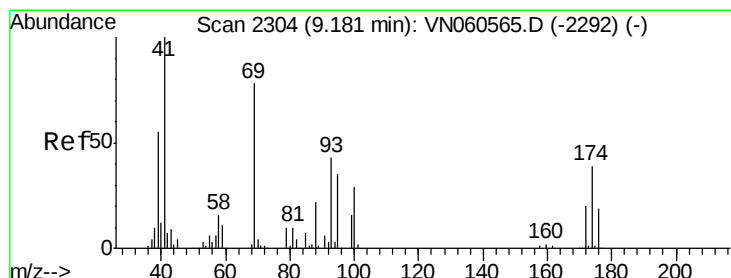
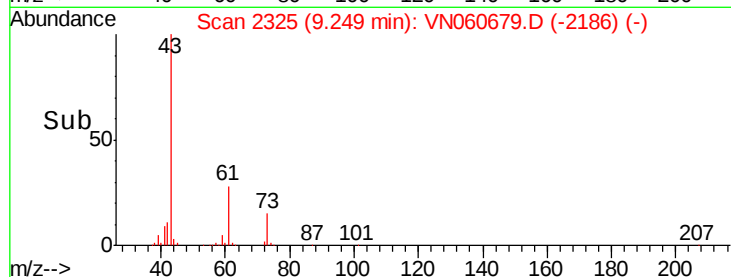
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.131 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

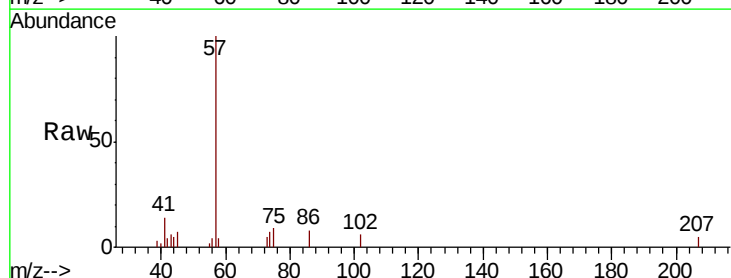
Tgt Ion: 41 Resp: 2868

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

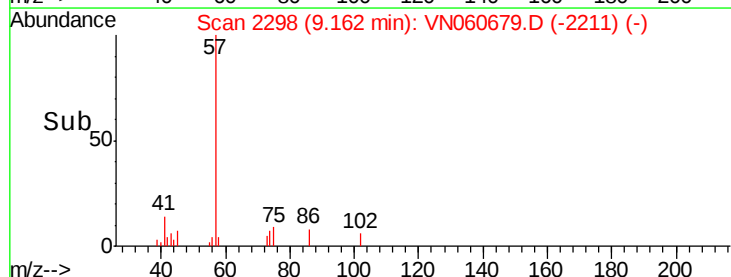
30000

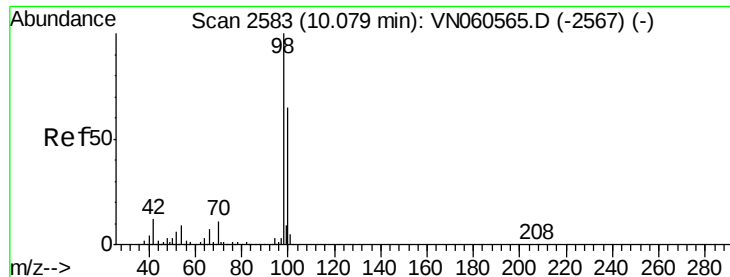
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.009 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

Instrument :

MSVOA_N

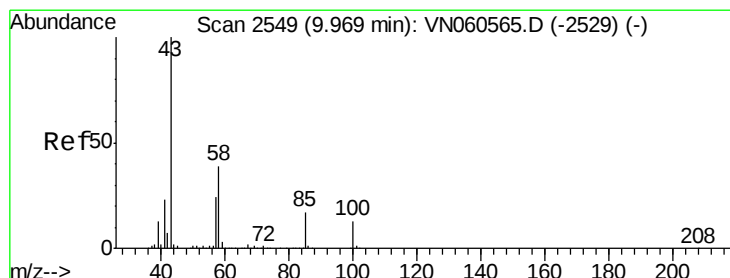
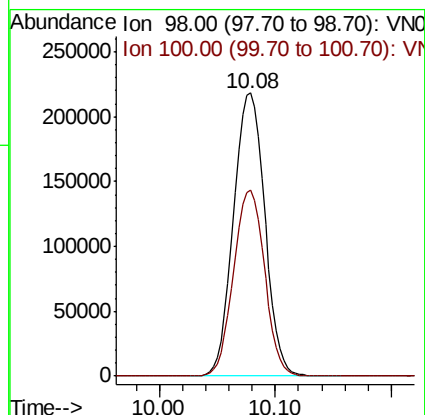
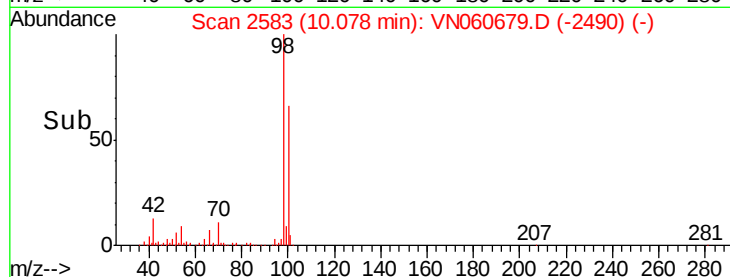
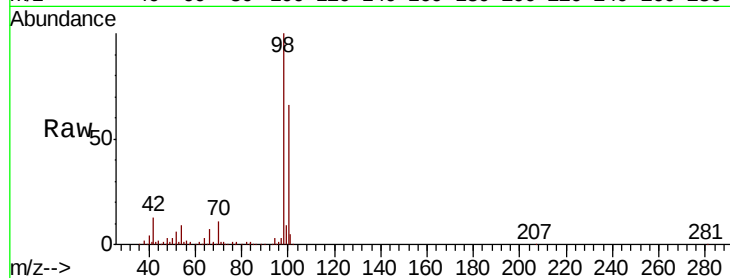
ClientSampleId :

Tot Ion: 98 Resp: 407859

Ion Ratio Lower Upper

98 100

100 65.2 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.170 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060679.D

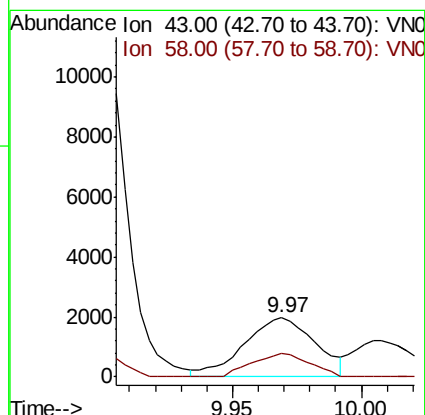
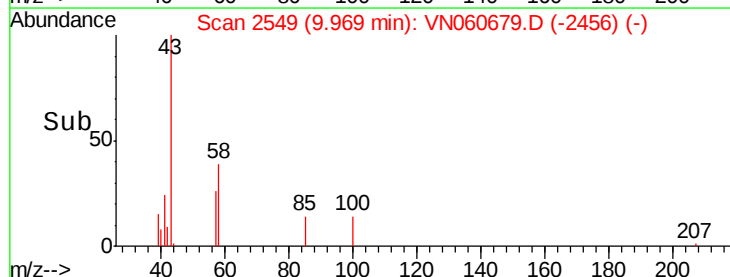
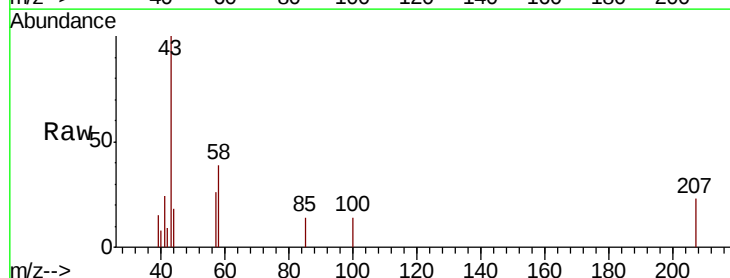
Acq: 24 Mar 2020 17:53

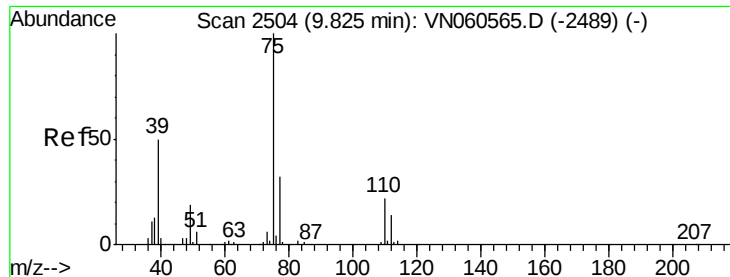
Tgt Ion: 43 Resp: 3793

Ion Ratio Lower Upper

43 100

58 31.8 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 4.749 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

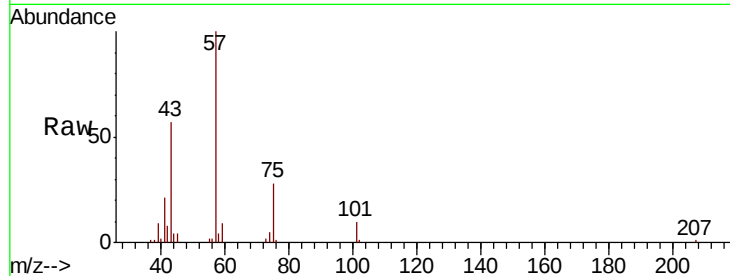
Tot Ion: 75 Resp: 19148

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

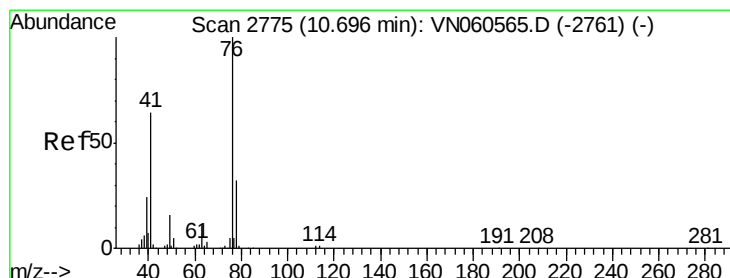
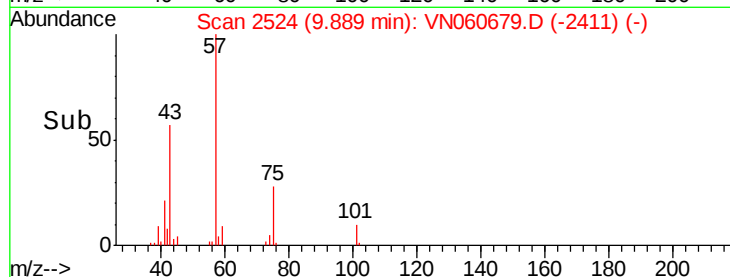
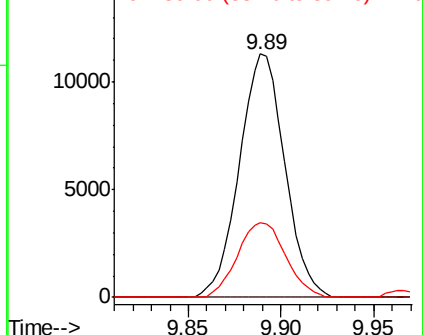
39 30.6 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060565.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060565.D (-2489) (-)



#57

1,3-Dichloropropane

Concen: 0.769 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060679.D

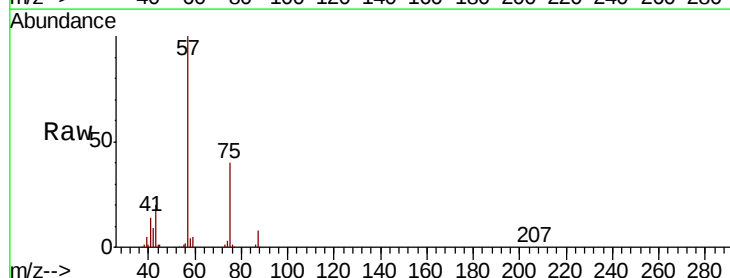
Acq: 24 Mar 2020 17:53

Tgt Ion: 76 Resp: 2992

Ion Ratio Lower Upper

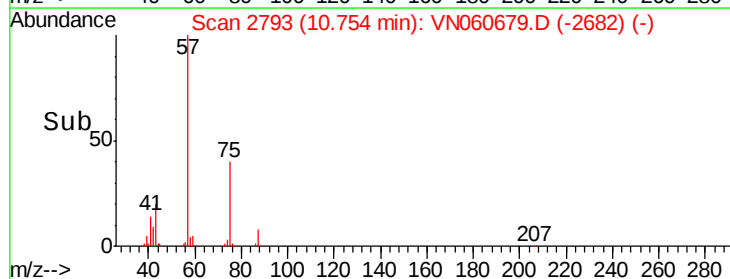
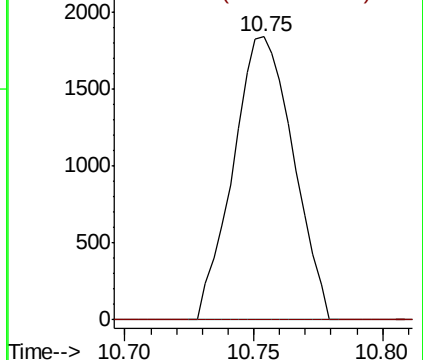
76 100

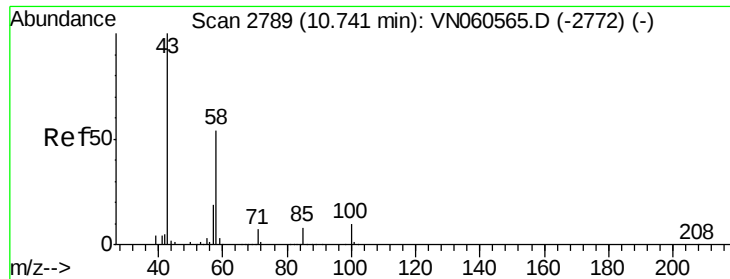
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060565.D (-2761) (-)

Ion 77.90 (77.60 to 78.60): VN060565.D (-2761) (-)

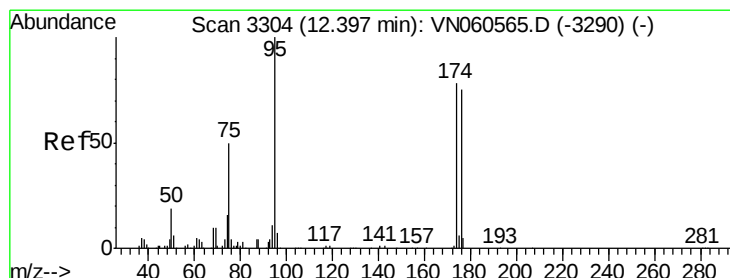
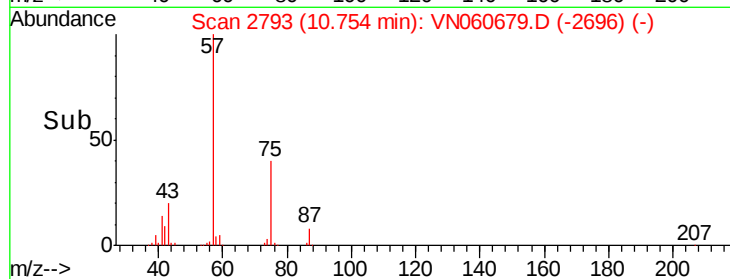
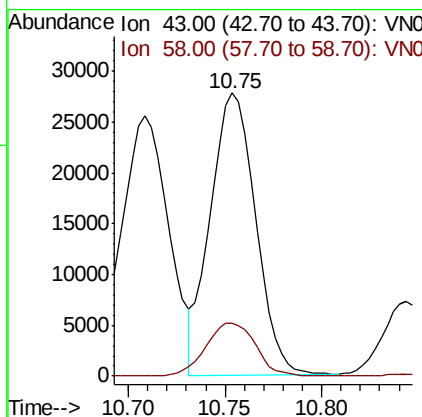
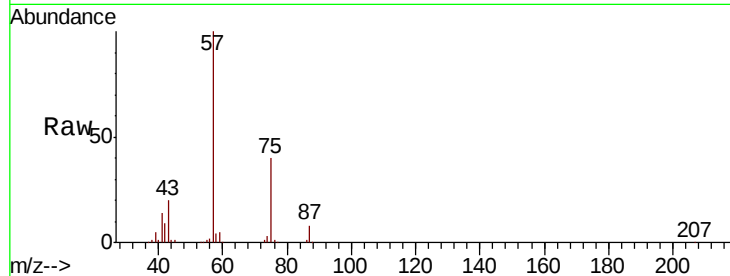




#59
2-Hexanone
Concen: 19.447 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

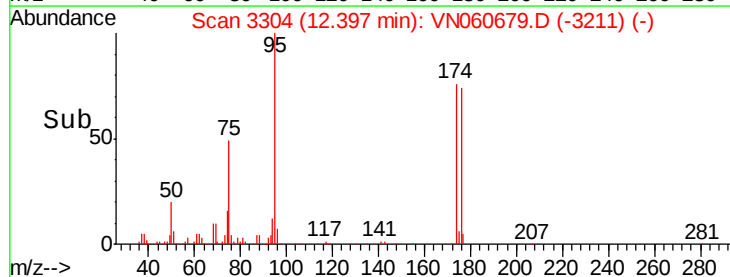
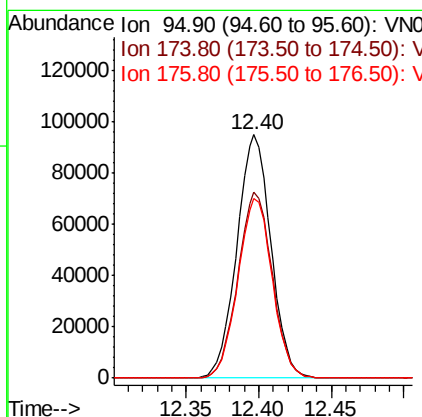
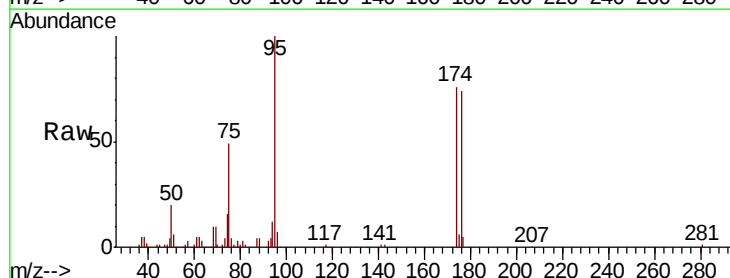
Instrument :
MSVOA_N
ClientSampleId :

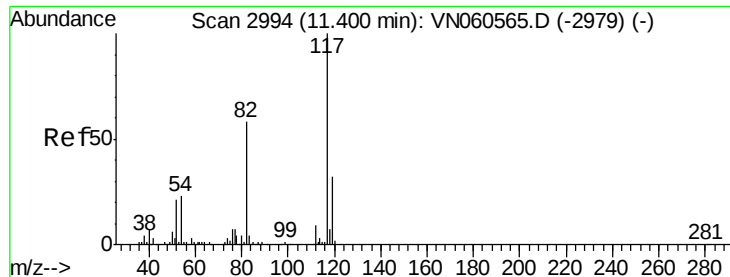
Tot Ion: 43 Resp: 45421
Ion Ratio Lower Upper
43 100
58 20.6 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.866 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

Tgt Ion: 95 Resp: 155024
Ion Ratio Lower Upper
95 100
174 77.2 0.0 157.6
176 74.7 0.0 150.6

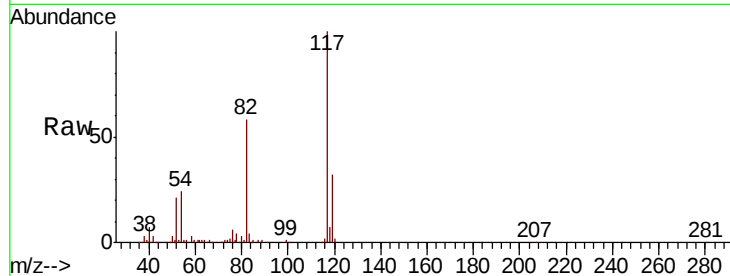




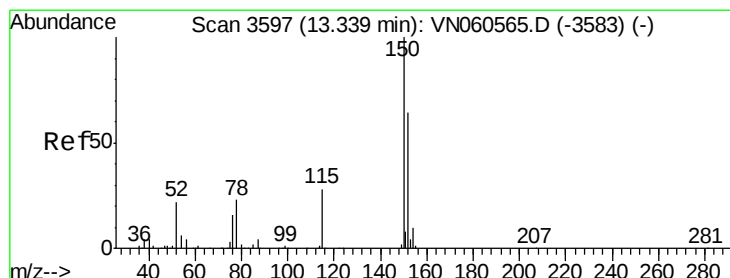
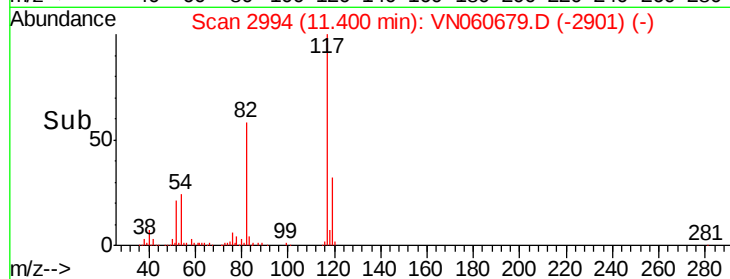
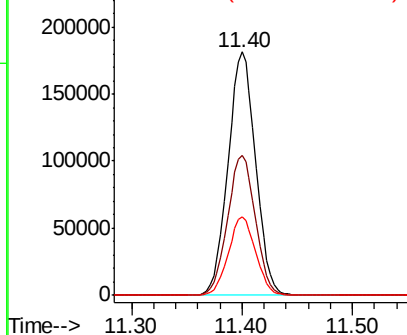
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 313756
Ion Ratio Lower Upper
117 100
82 57.6 46.7 70.1
119 32.2 25.5 38.3

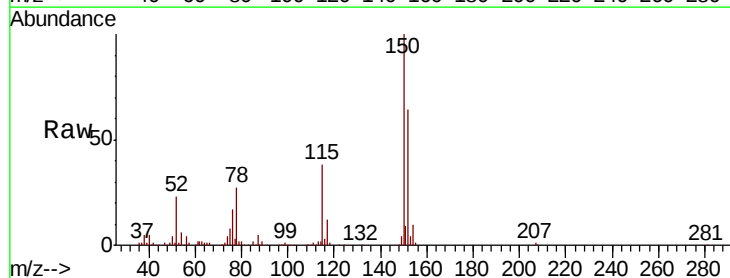


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

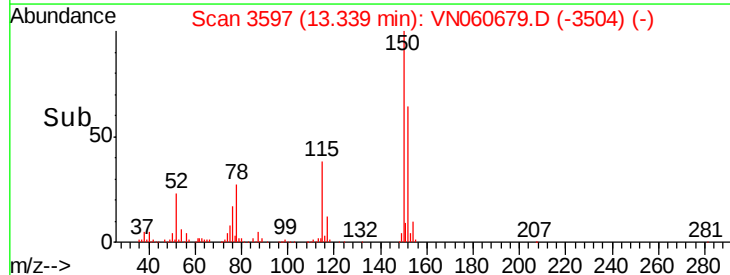
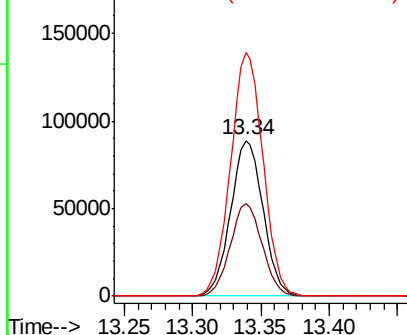


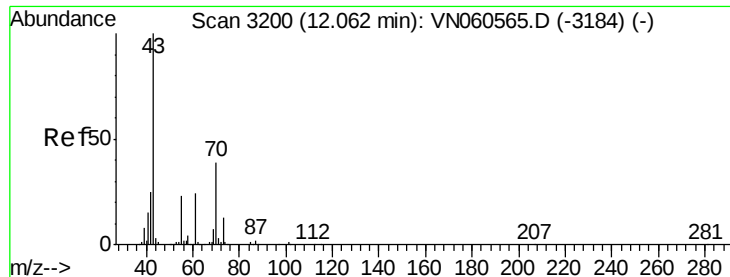
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060679.D
Acq: 24 Mar 2020 17:53

Tgt Ion:152 Resp: 146286
Ion Ratio Lower Upper
152 100
115 58.9 30.2 90.6
150 156.9 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-amvl acetate

Concen: 0.642 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3256

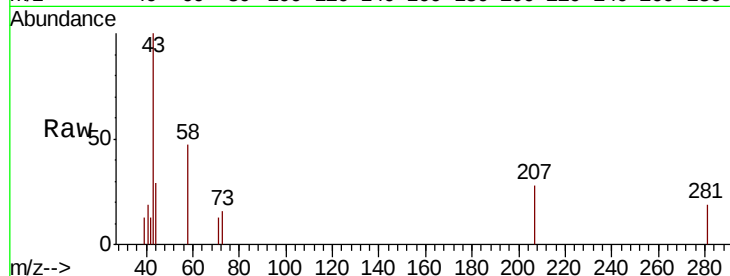
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

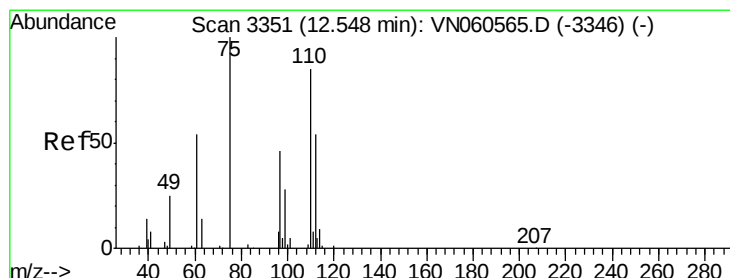
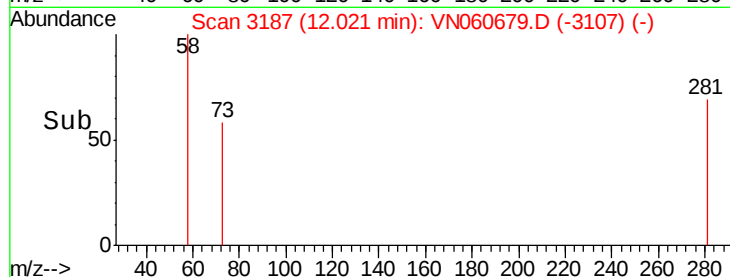
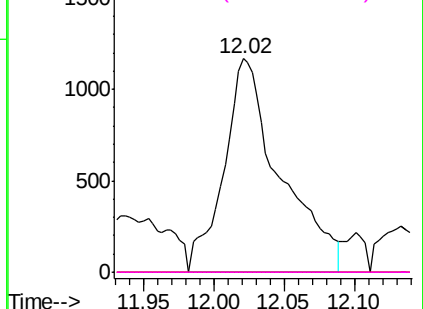


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.846 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060679.D

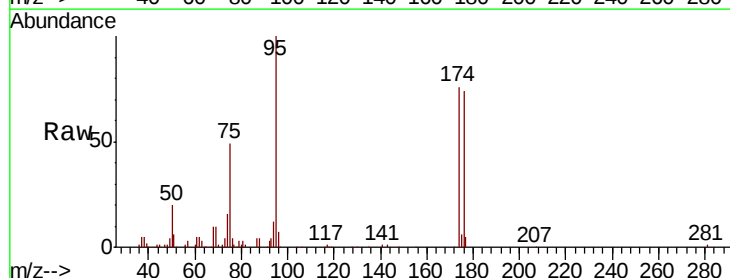
Acq: 24 Mar 2020 17:53

Tgt Ion: 75 Resp: 78429

Ion Ratio Lower Upper

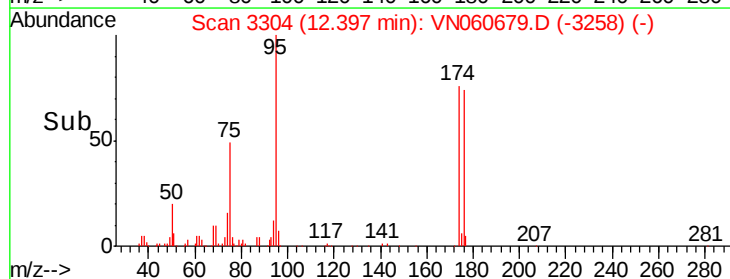
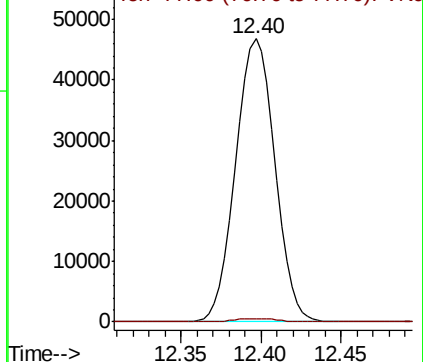
75 100

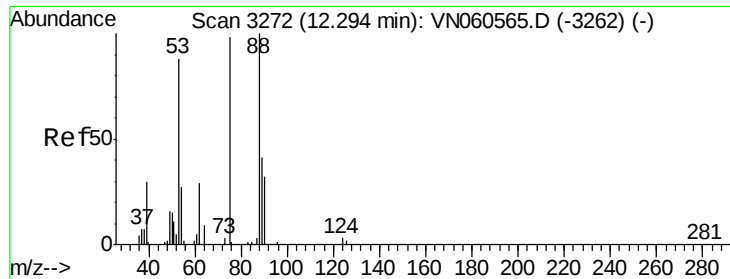
77 1.3 0.0 0.0#



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: 63.813 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060679.D

Acq: 24 Mar 2020 17:53

Instrument :

MSVOA_N

ClientSampleId :

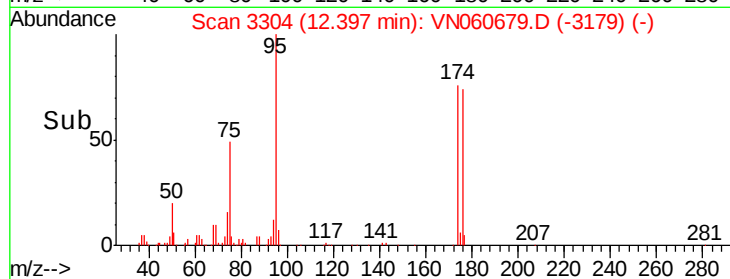
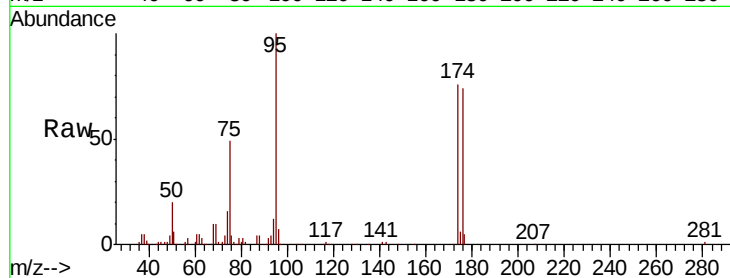
Tot Ion: 75 Resp: 78429

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

