

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060684.D
 Acq On : 24 Mar 2020 19:46
 Operator : JC/MD
 Sample : L2011-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:59:37 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	183704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	309163	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	294210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139577	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	123831	49.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.20%	
35) Dibromofluoromethane	7.56	113	95007	50.82	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.64%	
50) Toluene-d8	10.08	98	386896	50.67	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.40	95	145348	51.94	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.88%	

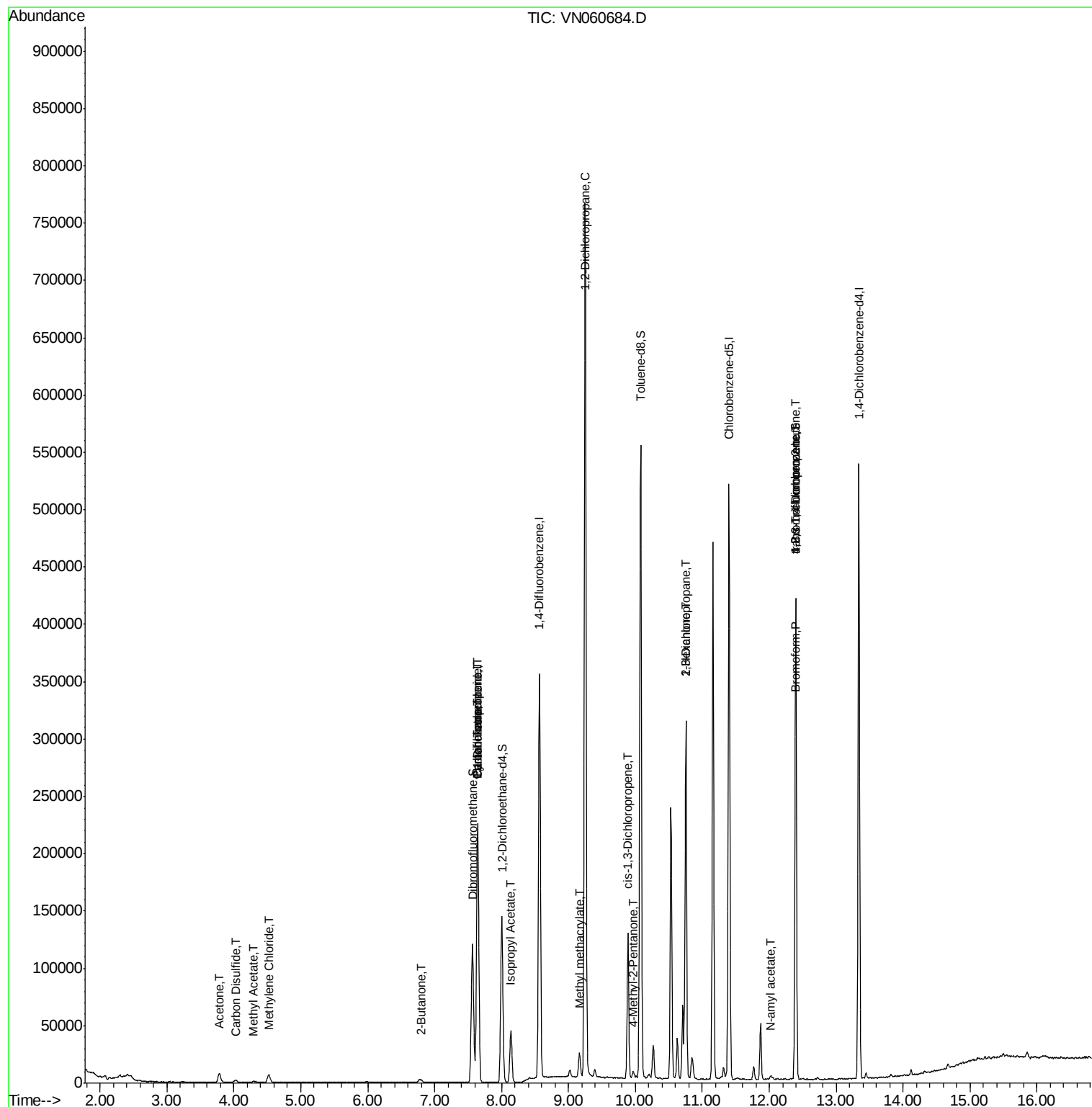
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	14372	16.089	ug/l	95
17) Carbon Disulfide	4.03	76	2718	0.449	ug/l #	75
18) Methyl Acetate	4.30	43	2662	1.059	ug/l #	68
20) Methylene Chloride	4.52	84	5246	2.387	ug/l	92
25) 2-Butanone	6.80	43	3407	2.357	ug/l	94
31) Cyclohexane	7.64	56	3993	0.983	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14530	4.854	ug/l #	49
38) Carbon Tetrachloride	7.64	117	17657	6.581	ug/l #	16
43) Isopropyl Acetate	8.14	43	55214	10.350	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	871	0.365	ug/l #	43
48) Methyl methacrylate	9.16	41	3757	1.582	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5202	1.714	ug/l #	83
54) cis-1,3-Dichloropropene	9.89	75	21965	5.818	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2995	0.822	ug/l #	42
59) 2-Hexanone	10.75	43	46007	21.039	ug/l #	52
71) Bromoform	12.38	173	30	1.697	ug/l #	29
74) N-amyl acetate	12.02	43	2469	0.510	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	73546	24.419	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	73546	62.716	ug/l #	13

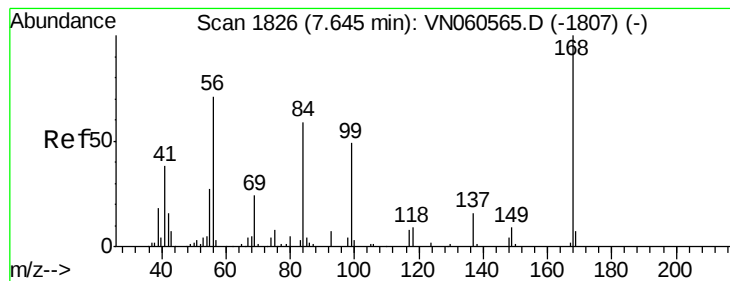
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

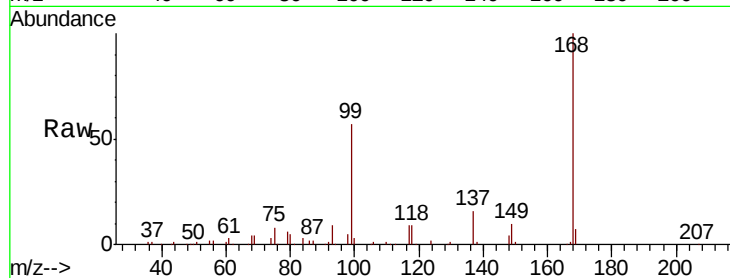
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 183704

Ion Ratio Lower Upper

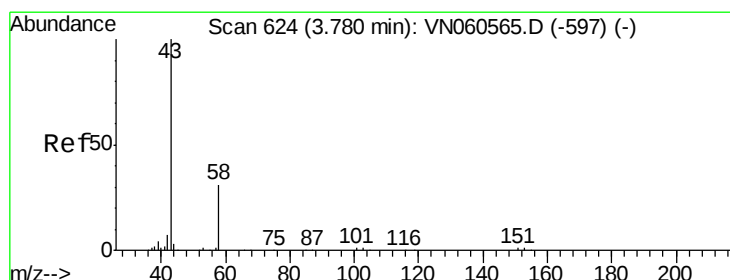
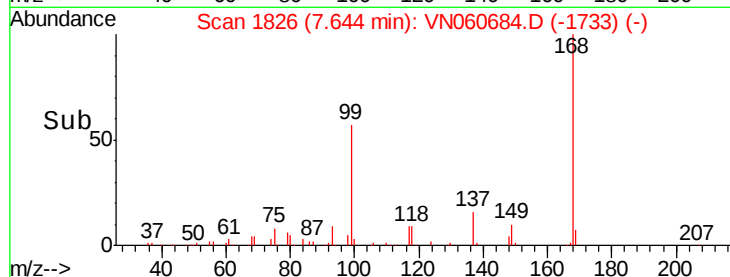
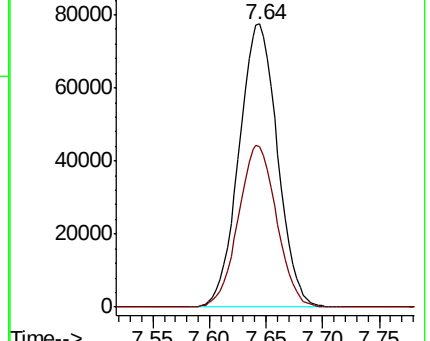
168 100

99 56.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 16.089 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060684.D

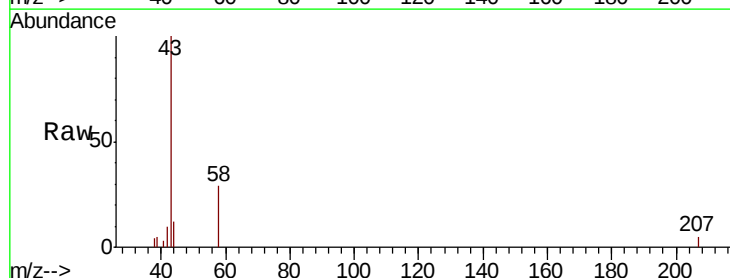
Acq: 24 Mar 2020 19:46

Tgt Ion: 43 Resp: 14372

Ion Ratio Lower Upper

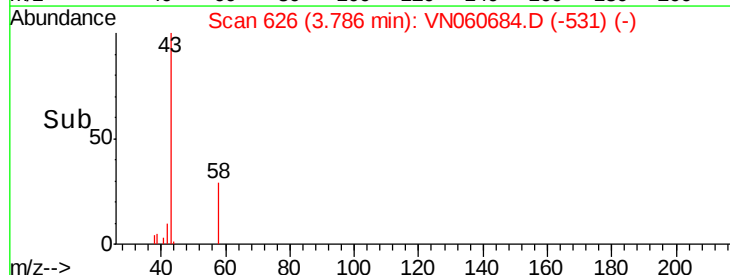
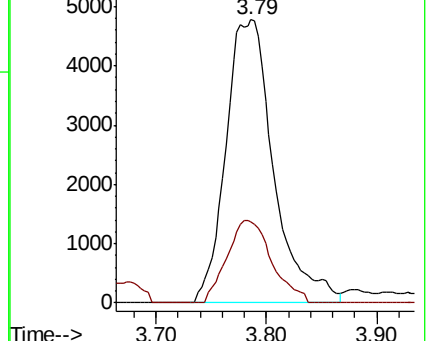
43 100

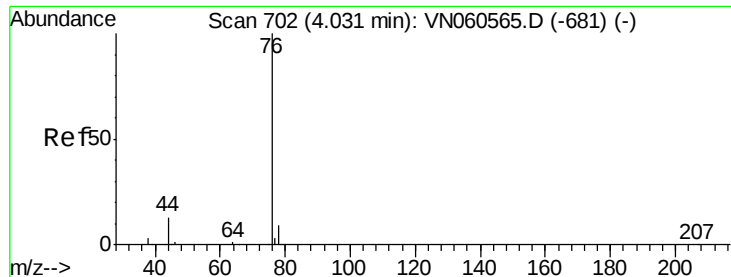
58 28.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.449 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

Instrument :

MSVOA_N

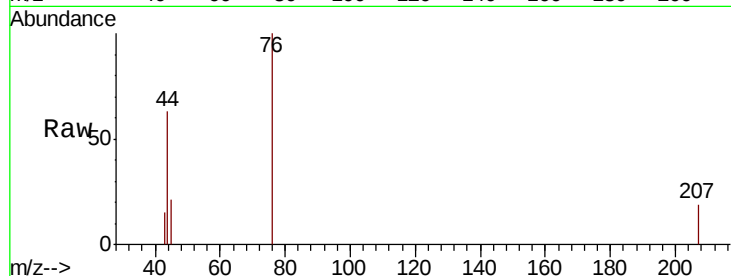
ClientSampled :

Tot Ion: 76 Resp: 2718

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

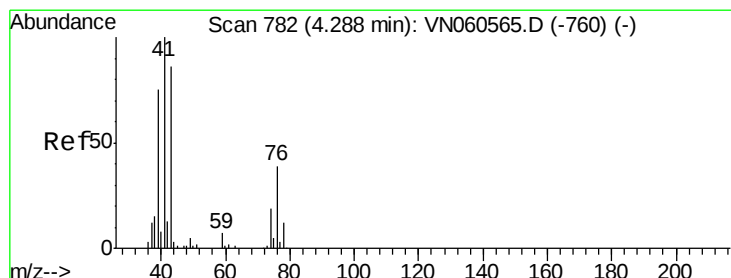
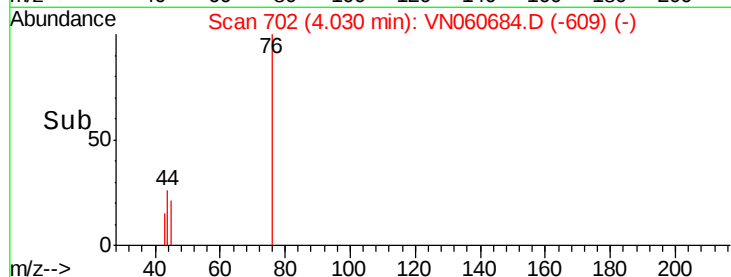
1000

500

0

Time-->

4.00 4.05 4.10



#18

Methyl Acetate

Concen: 1.059 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060684.D

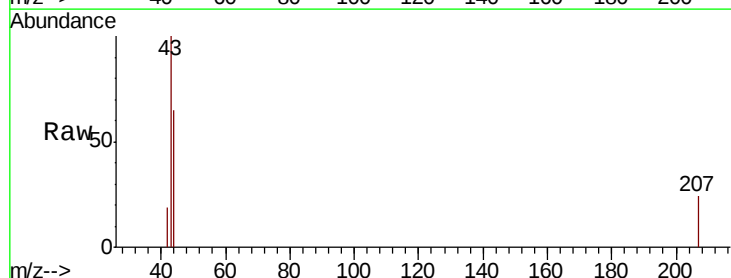
Acq: 24 Mar 2020 19:46

Tgt Ion: 43 Resp: 2662

Ion Ratio Lower Upper

43 100

74 6.5 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1000

800

600

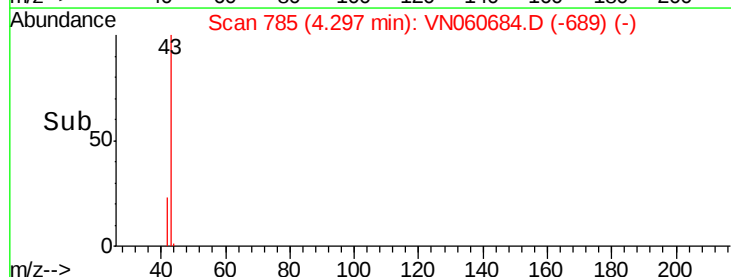
400

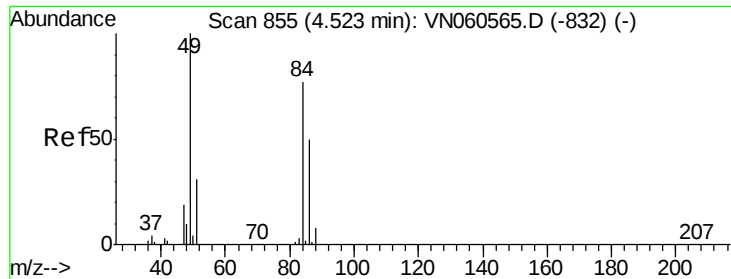
200

0

Time-->

4.20 4.25 4.30 4.35

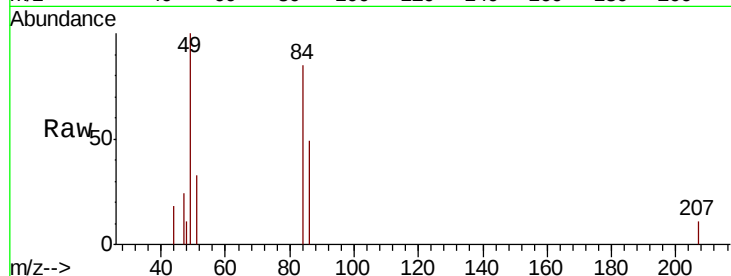




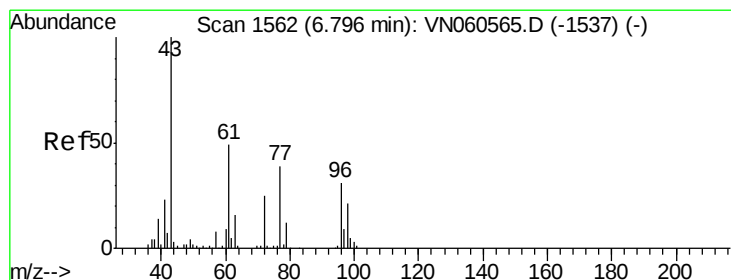
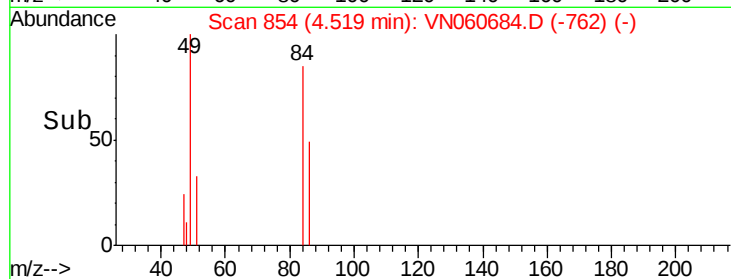
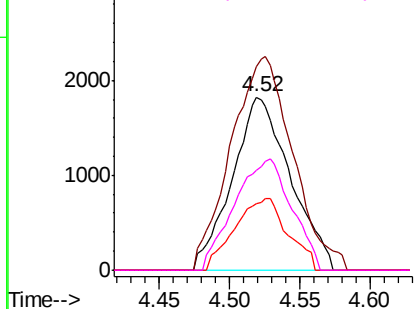
#20
Methylene Chloride
Concen: 2.387 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	5246
Ion	Ratio	Lower	Upper
84	100		
49	117.6	103.3	154.9
51	38.6	31.6	47.4
86	57.8	52.0	78.0

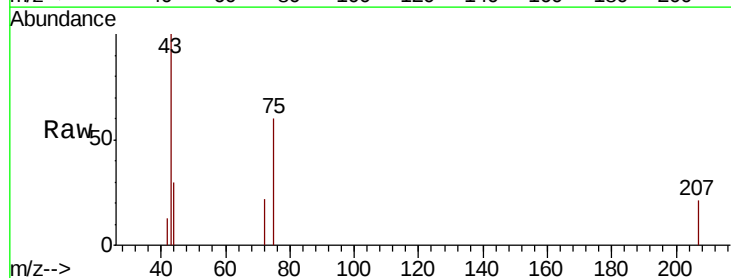


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

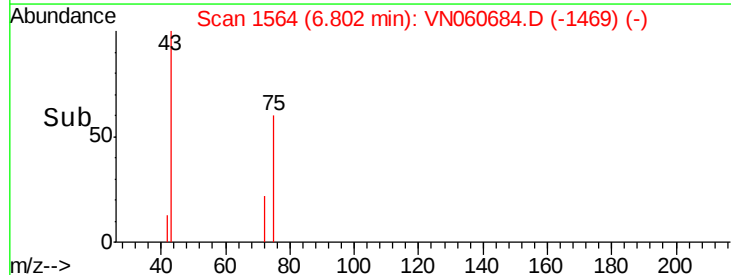
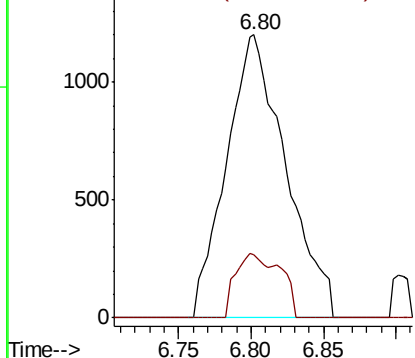


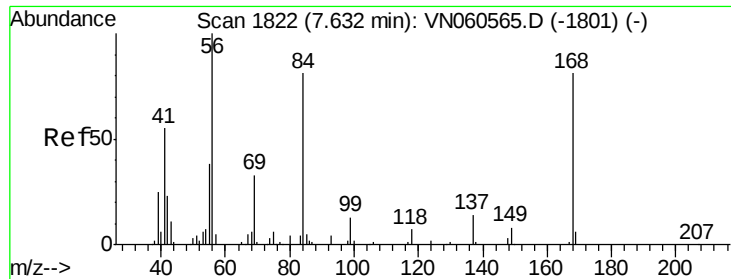
#25
2-Butanone
Concen: 2.357 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Tgt Ion:	43	Resp:	3407
Ion	Ratio	Lower	Upper
43	100		
72	22.3	20.4	30.6



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

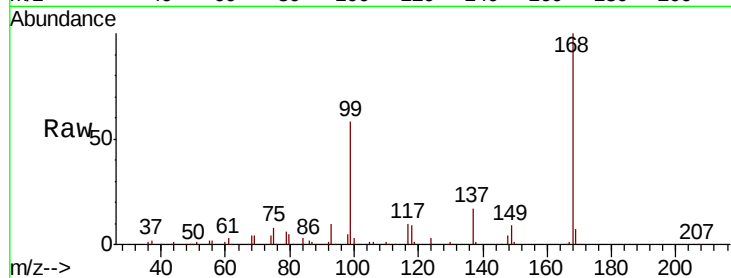




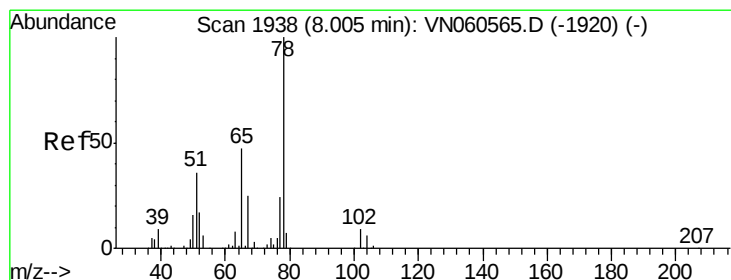
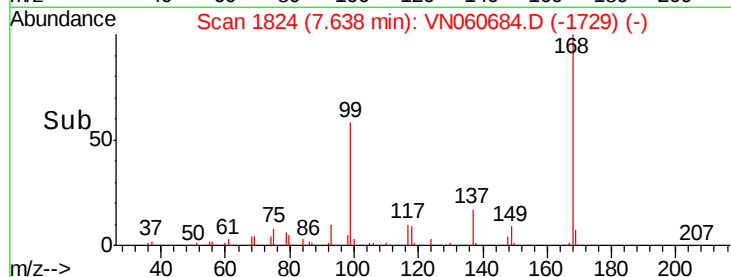
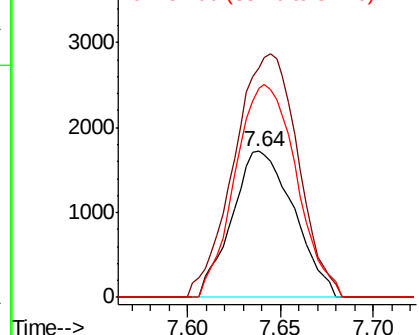
#31
Cyclohexane
Concen: 0.983 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3993
Ion Ratio Lower Upper
56 100
69 157.3 26.6 40.0#
84 143.1 64.3 96.5#

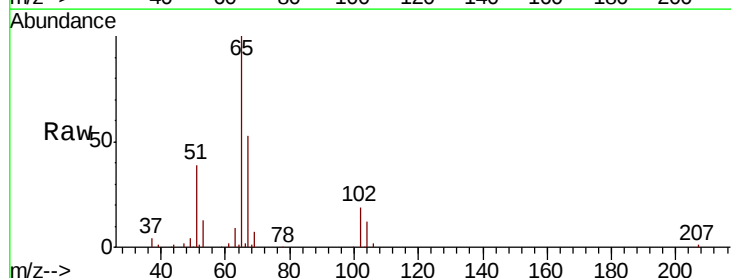


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

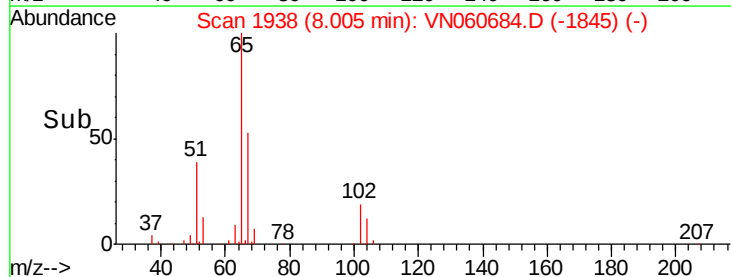
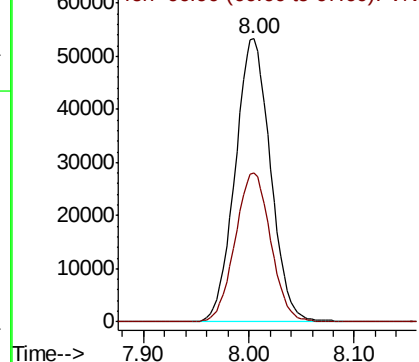


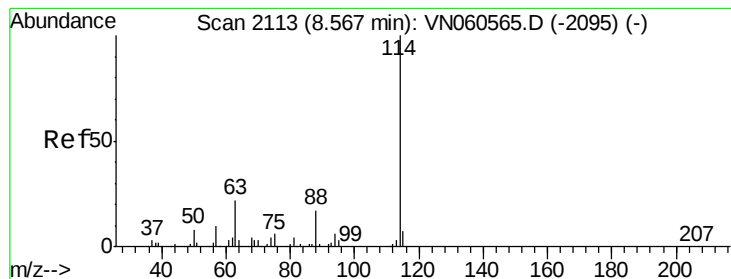
#33
1,2-Dichloroethane-d4
Concen: 49.104 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Tgt Ion: 65 Resp: 123831
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.6



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: VN060684.D

Acq: 24 Mar 2020 19:46

Instrument :

MSVOA_N

ClientSampleId :

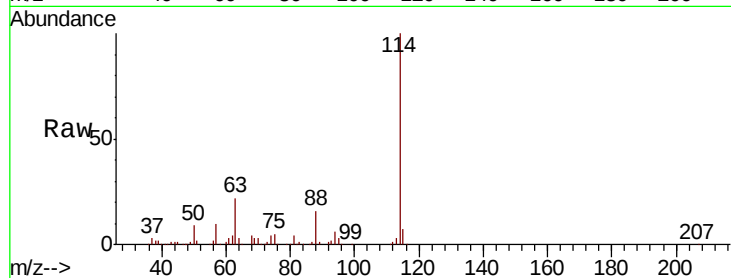
Tot Ion:114 Resp: 309163

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

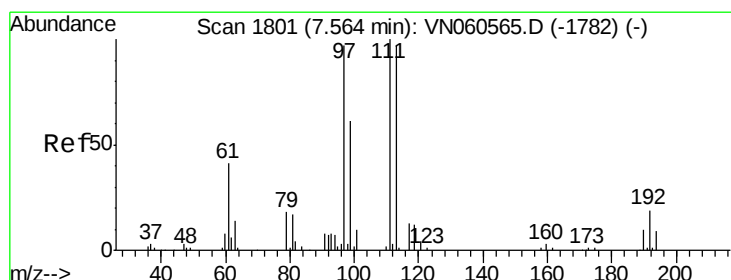
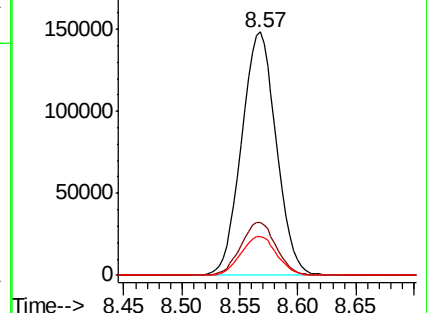
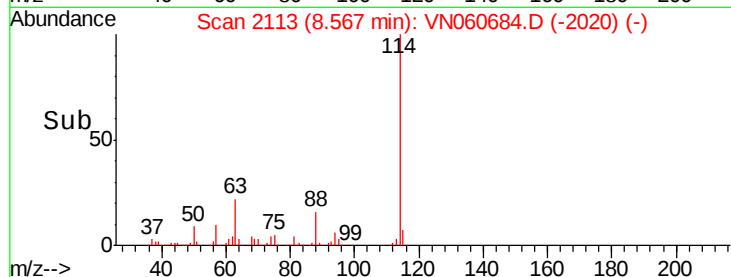
88 16.2 0.0 33.0



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: 50.822 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

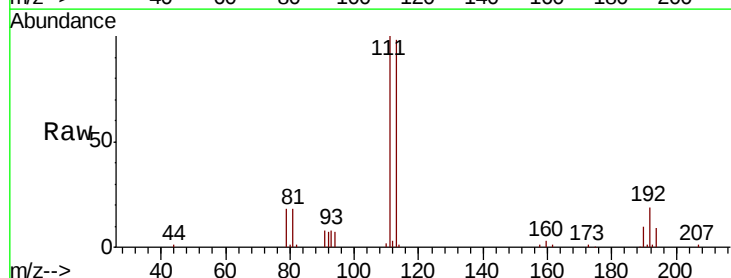
Tgt Ion:113 Resp: 95007

Ion Ratio Lower Upper

113 100

111 101.5 82.9 124.3

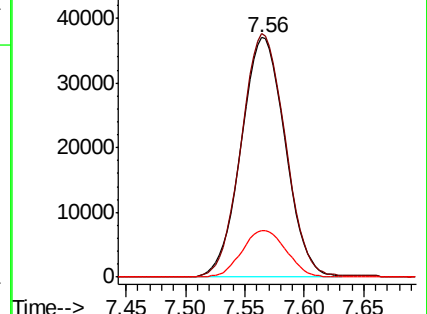
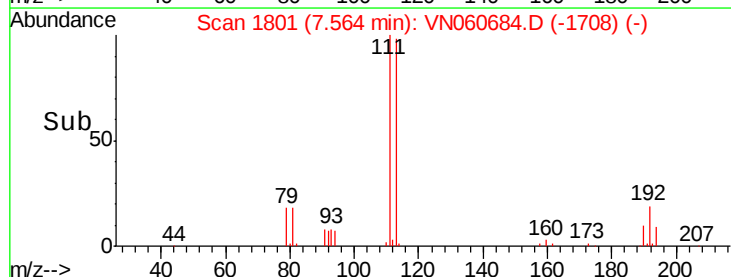
192 19.5 15.8 23.8

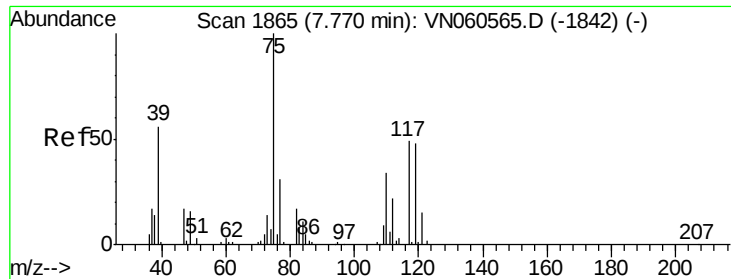


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

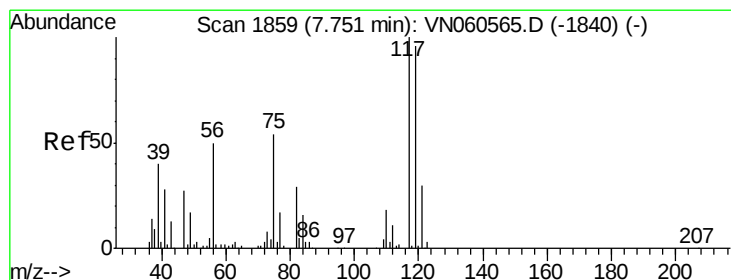
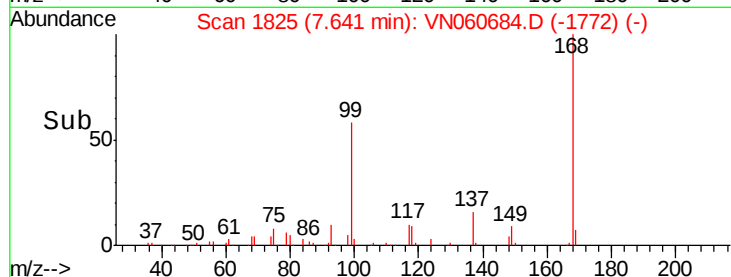
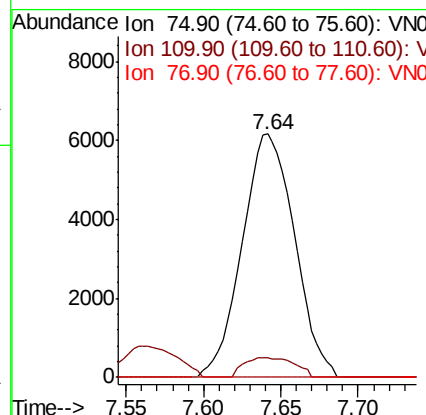
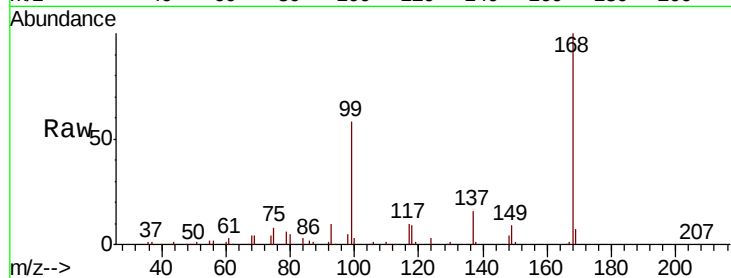




#36
 1,1-Dichloropropene
 Concen: 4.854 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060684.D
 Acq: 24 Mar 2020 19:46

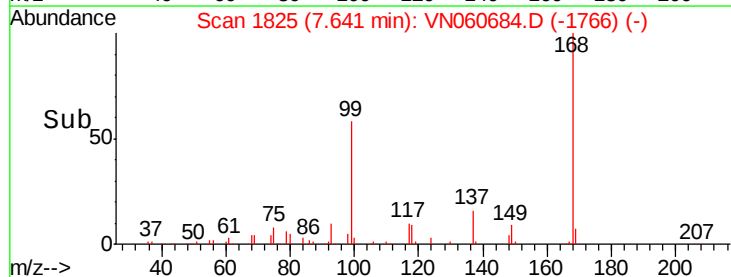
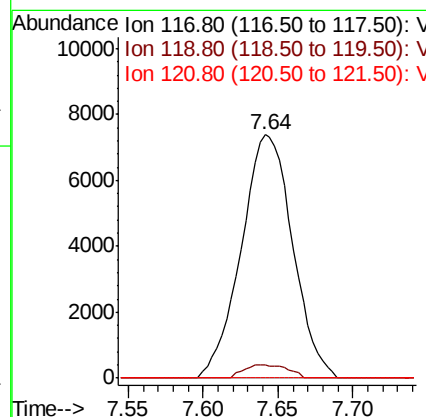
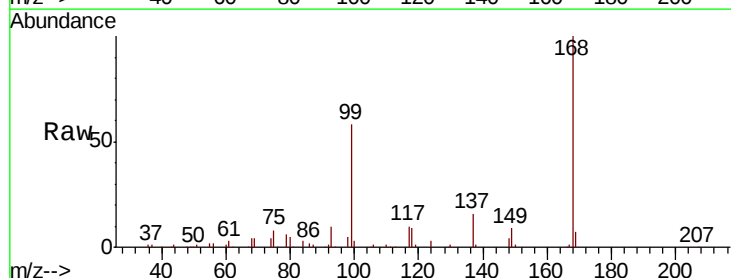
Instrument :
 MSVOA_N
 ClientSampled :

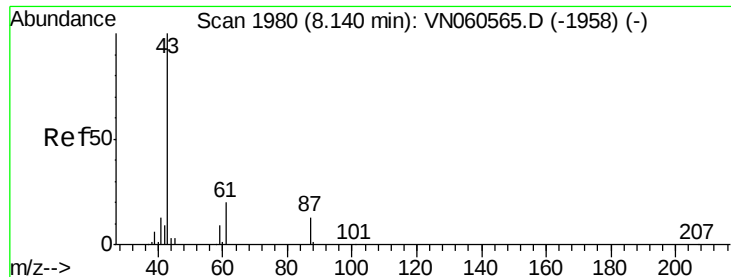
Tot Ion	75	Resp	14530
Ion Ratio	100	Lower	Upper
75	100		
110	7.7	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.581 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060684.D
 Acq: 24 Mar 2020 19:46

Tgt Ion	117	Resp	17657
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.3	76.2	114.2#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 10.350 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

Instrument :

MSVOA_N

ClientSampleId :

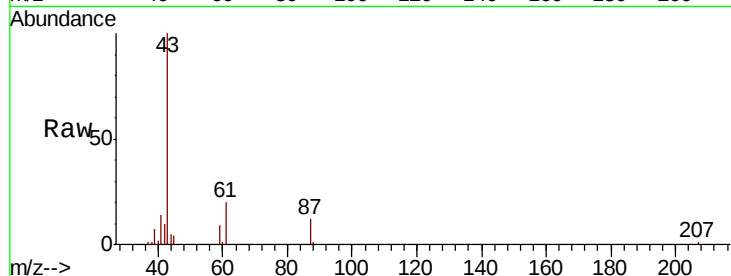
Tot Ion: 43 Resp: 55214

Ion Ratio Lower Upper

43 100

61 18.1 20.7 31.1#

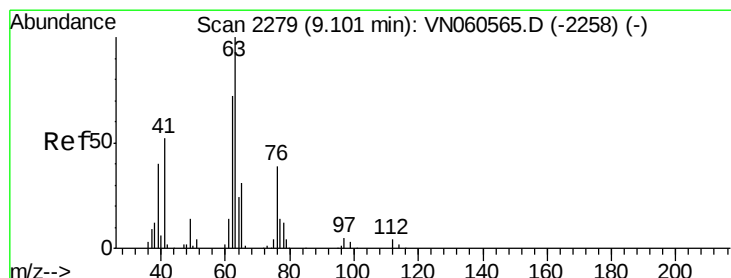
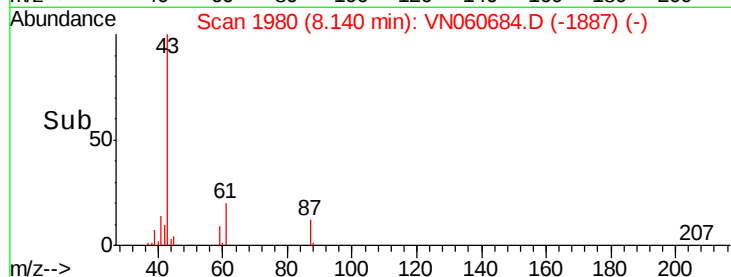
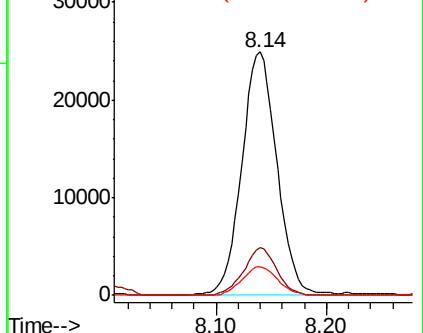
87 11.7 9.8 14.8



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) (-)



#45

1,2-Dichloropropane

Concen: 0.365 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060684.D

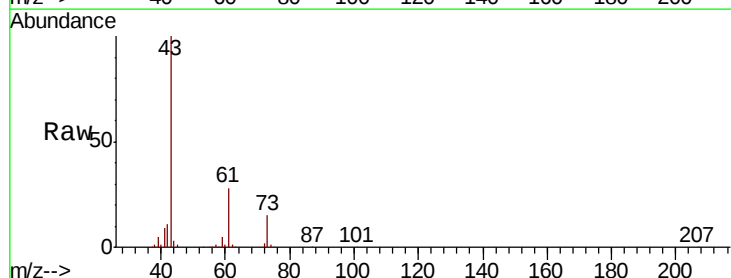
Acq: 24 Mar 2020 19:46

Tgt Ion: 63 Resp: 871

Ion Ratio Lower Upper

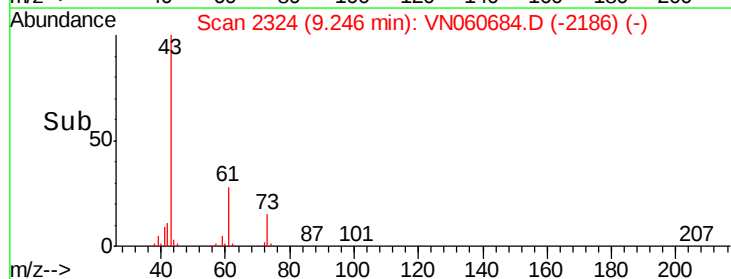
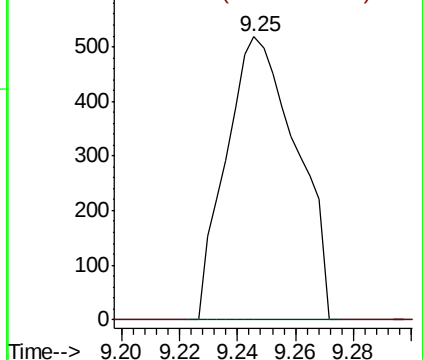
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060565.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060565.D (-2258) (-)

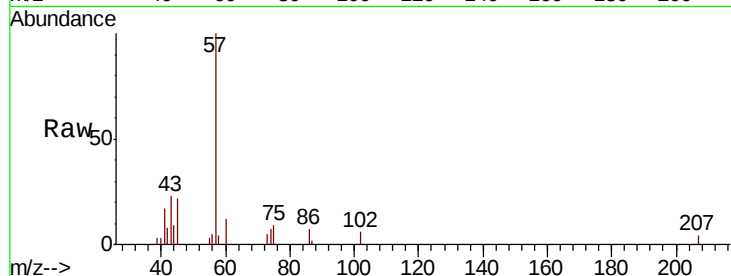




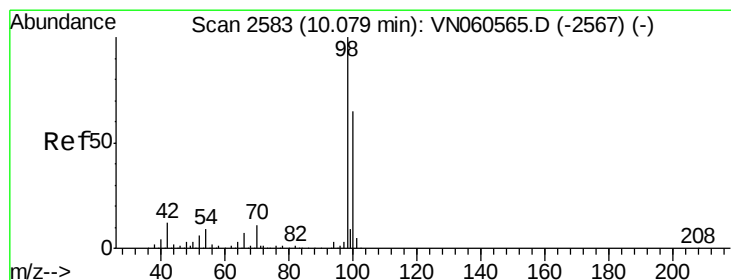
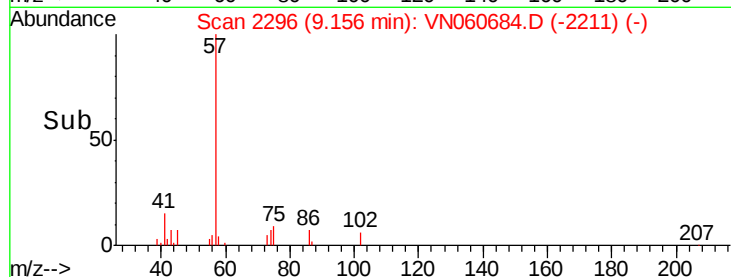
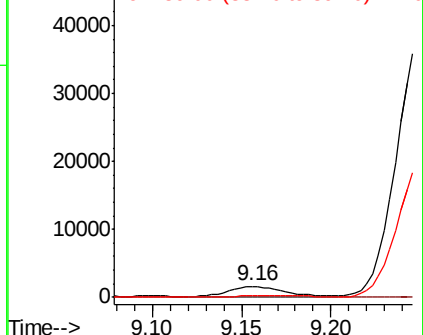
#48
Methvl methacrylate
Concen: 1.582 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3757
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

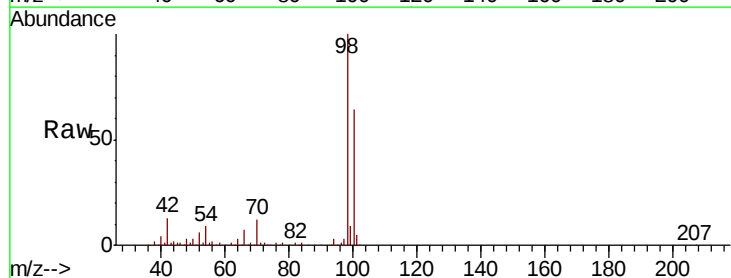


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

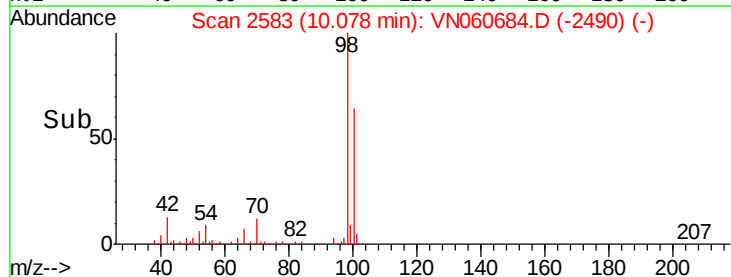
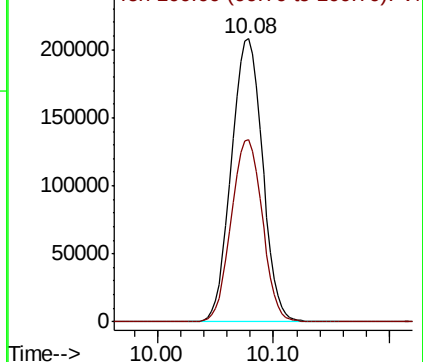


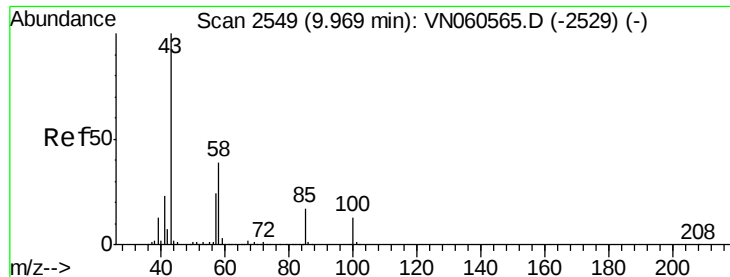
#50
Toluene-d8
Concen: 50.669 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Tgt Ion: 98 Resp: 386896
Ion Ratio Lower Upper
98 100
100 64.3 51.8 77.8



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

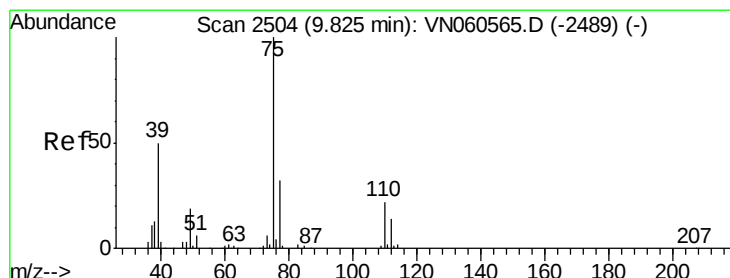
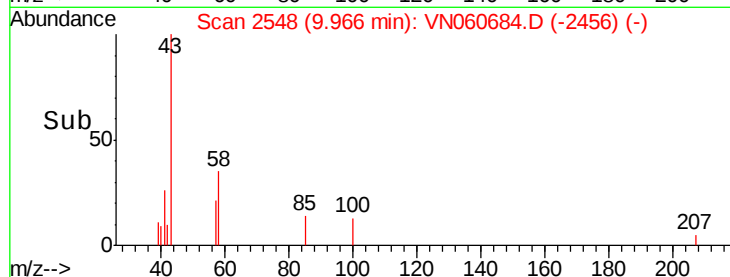
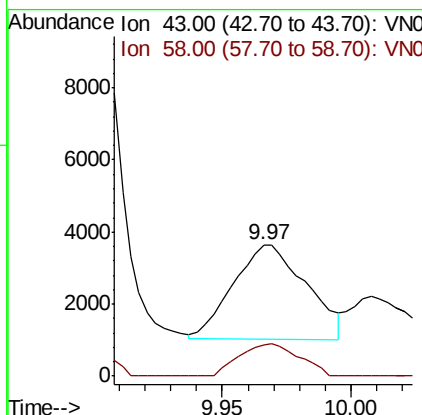
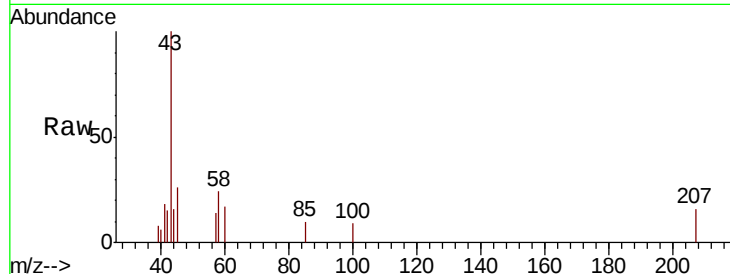




#51
4-Methyl-2-Pentanone
Concen: 1.714 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

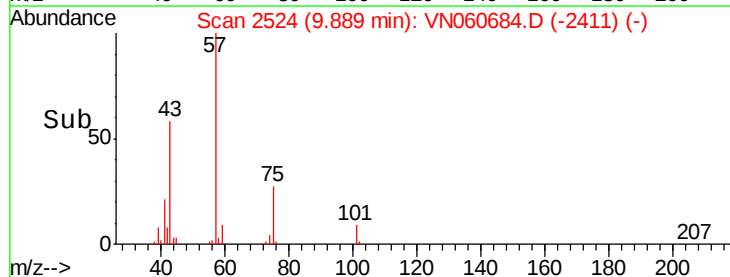
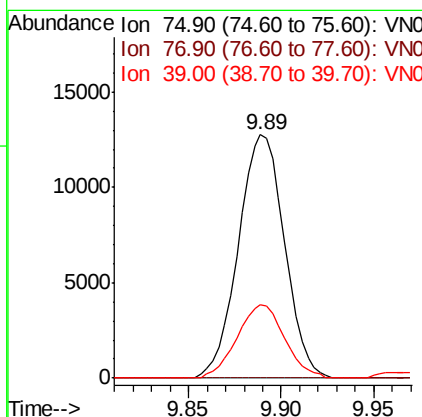
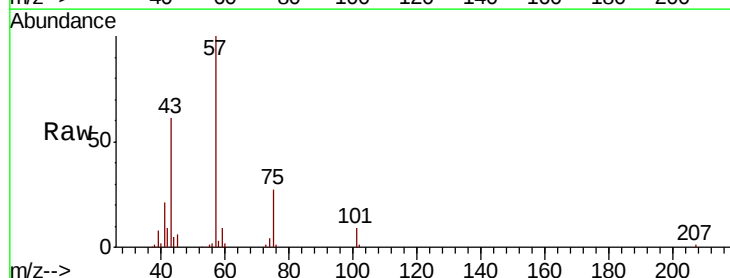
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 5202
Ion Ratio Lower Upper
43 100
58 28.1 30.8 46.2#



#54
cis-1,3-Dichloropropene
Concen: 5.818 ug/l
RT: 9.89 min Scan# 2524
Delta R.T. 0.06 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Tgt Ion: 75 Resp: 21965
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 30.1 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.822 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

Instrument :

MSVOA_N

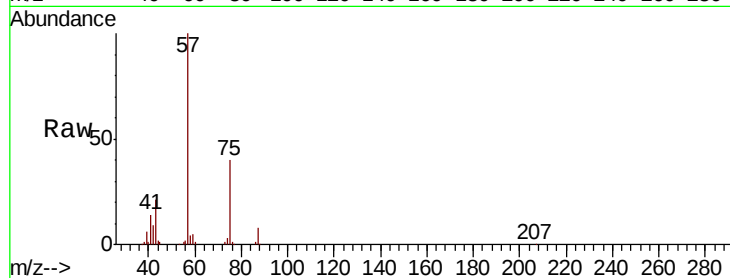
ClientSampled :

Tot Ion: 76 Resp: 2995

Ion Ratio Lower Upper

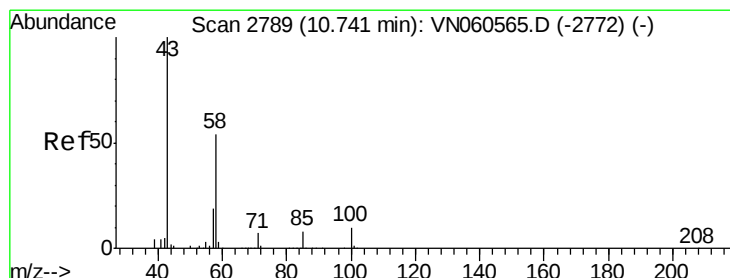
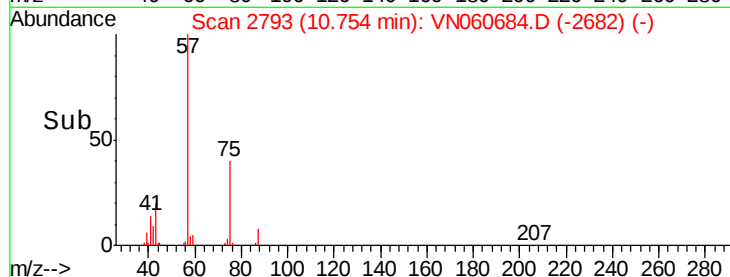
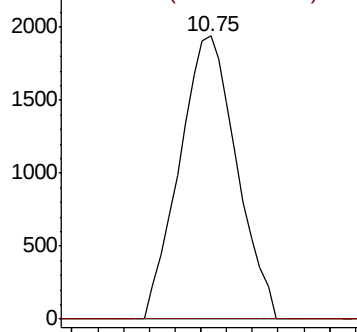
76 100

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: 21.039 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060684.D

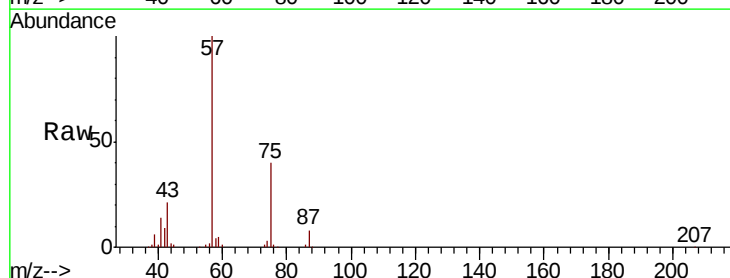
Acq: 24 Mar 2020 19:46

Tgt Ion: 43 Resp: 46007

Ion Ratio Lower Upper

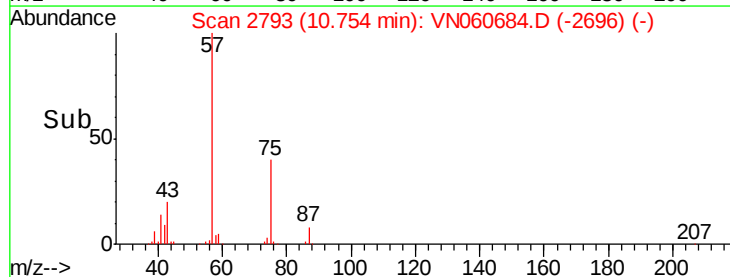
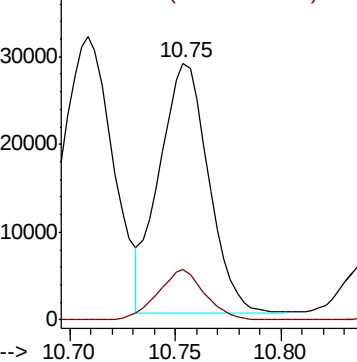
43 100

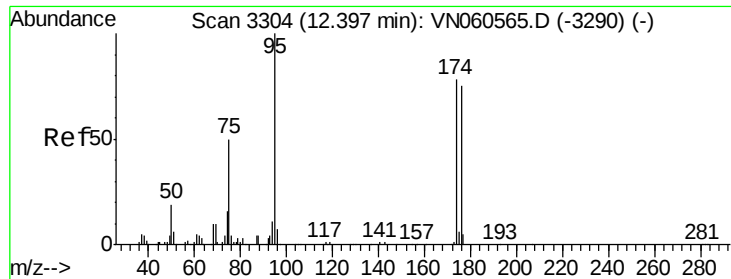
58 19.2 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.939 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

Instrument :

MSVOA_N

ClientSampled :

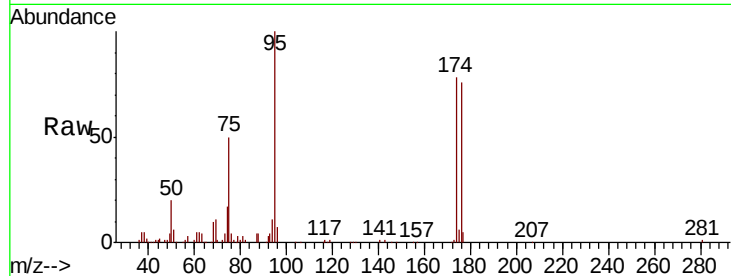
Tot Ion: 95 Resp: 145348

Ion Ratio Lower Upper

95 100

174 78.4 0.0 157.6

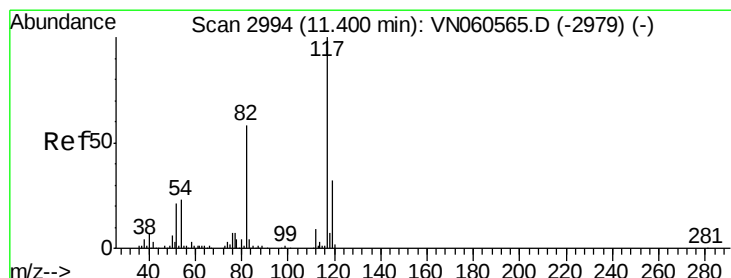
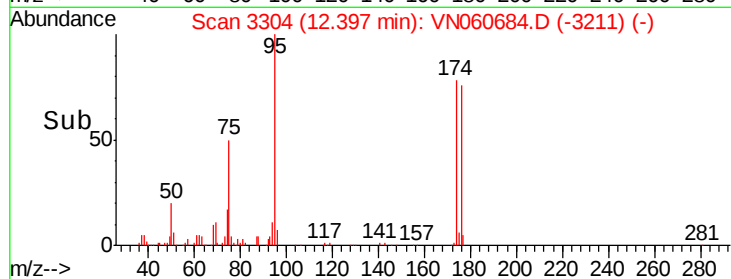
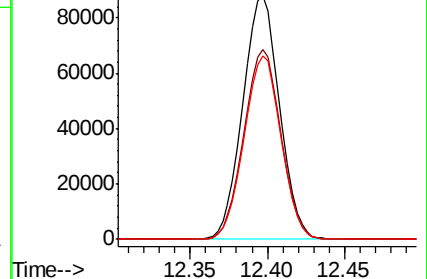
176 75.8 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060565.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060565.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060565.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

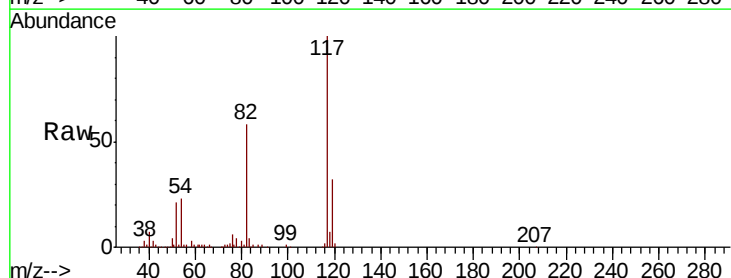
Tgt Ion: 117 Resp: 294210

Ion Ratio Lower Upper

117 100

82 58.4 46.7 70.1

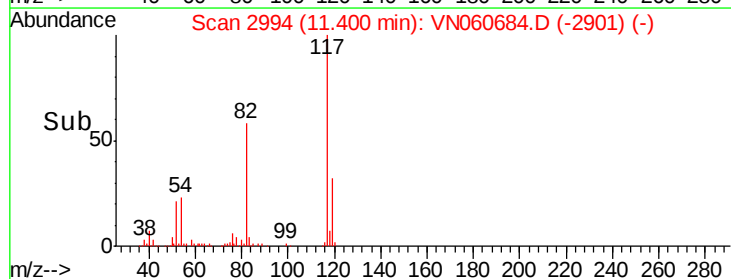
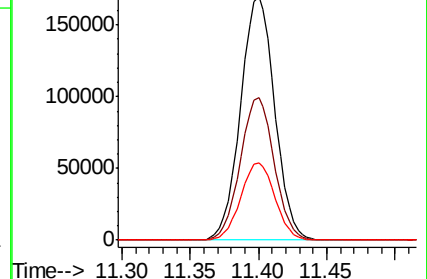
119 31.8 25.5 38.3

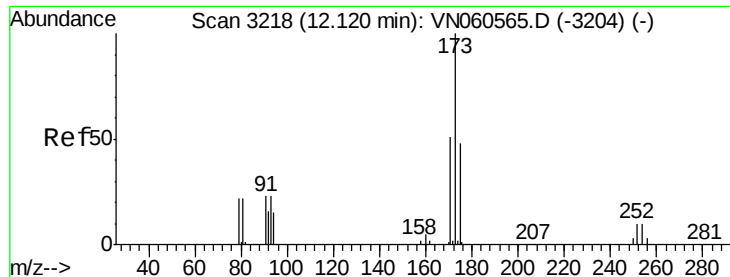


Abundance Ion 116.90 (116.60 to 117.60): VN060565.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060565.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060565.D (-2979) (-)

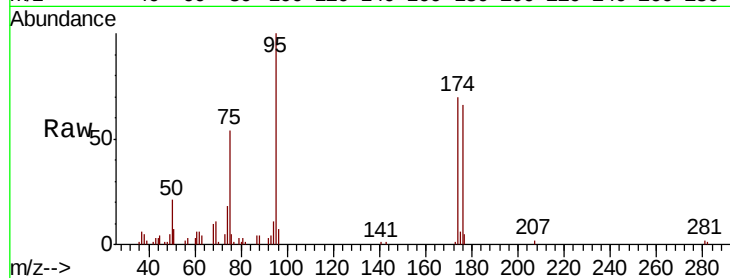




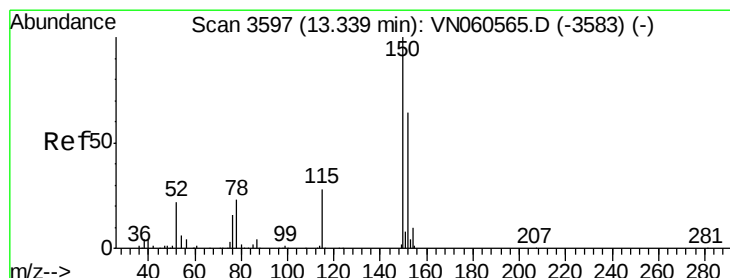
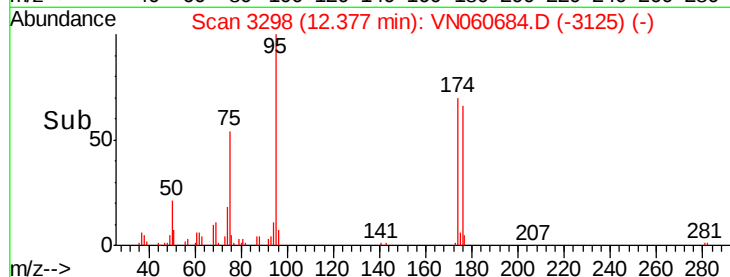
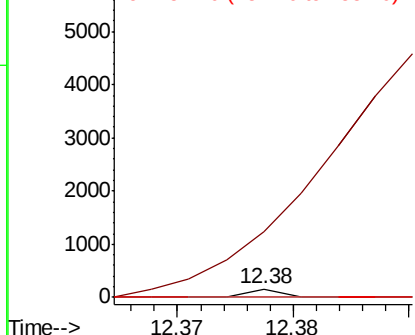
#71
Bromoform
Concen: 1.697 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.26 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 30
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0

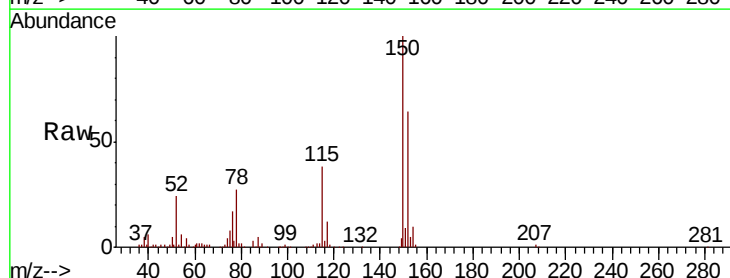


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

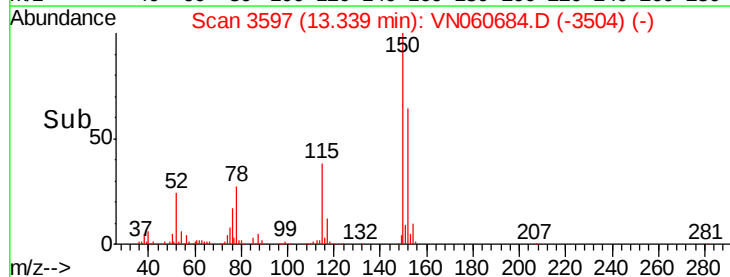
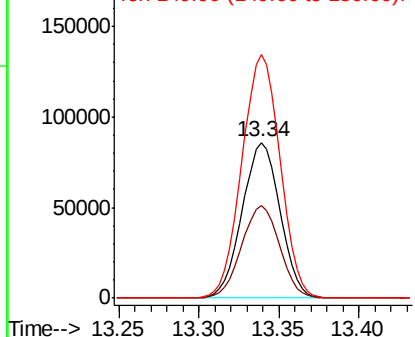


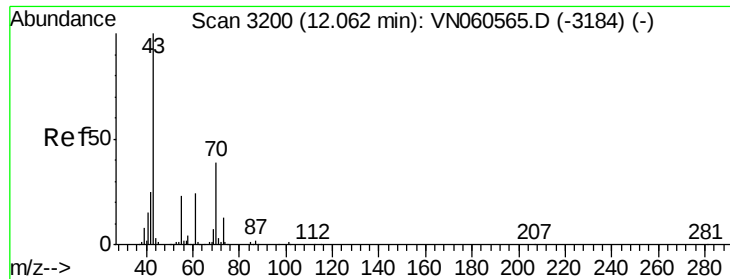
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Tgt Ion:152 Resp: 139577
Ion Ratio Lower Upper
152 100
115 59.7 30.2 90.6
150 157.7 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

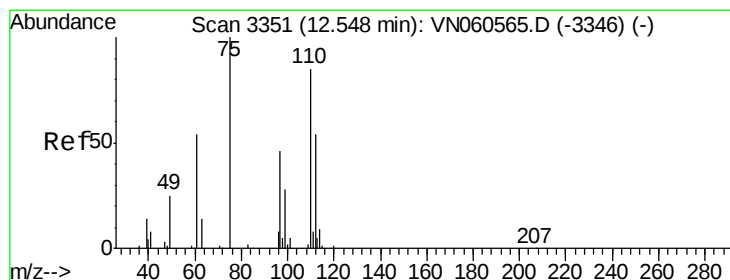
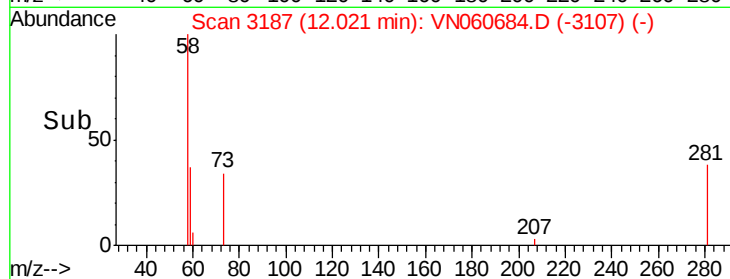
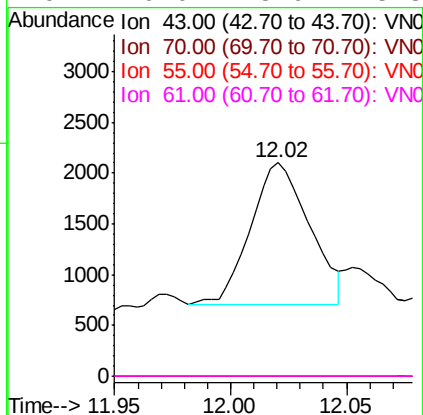
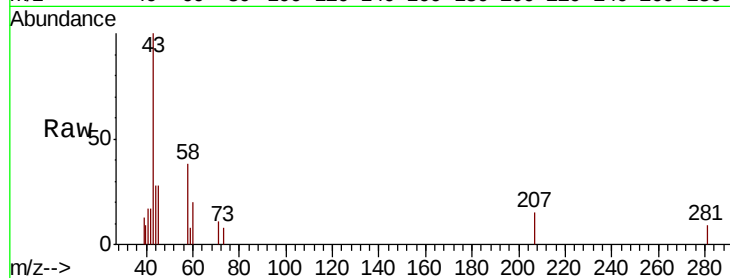




#74
N-amvl acetate
Concen: 0.510 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

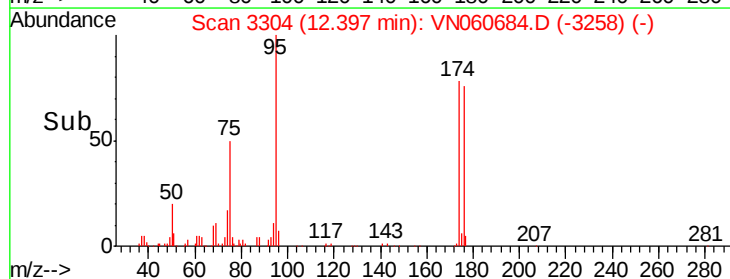
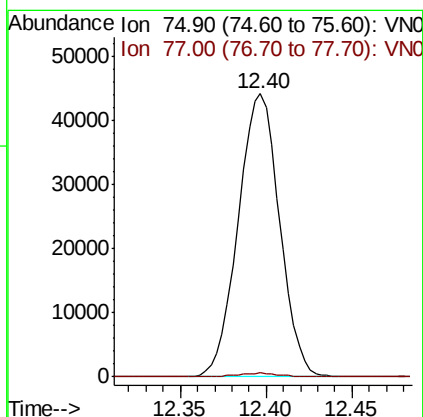
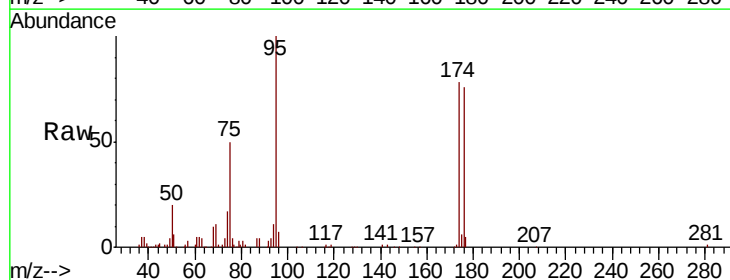
Instrument :
MSVOA_N
ClientSampled :

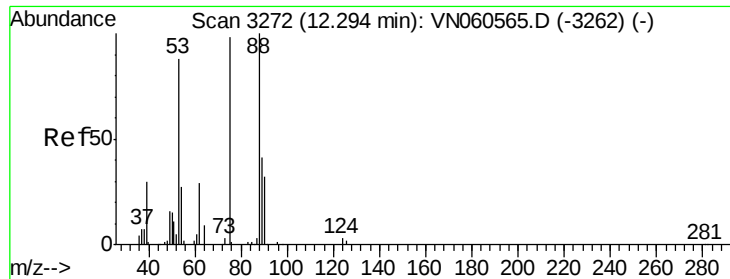
Tot Ion: 43 Resp: 2469
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 0.0 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 24.419 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060684.D
Acq: 24 Mar 2020 19:46

Tgt Ion: 75 Resp: 73546
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.716 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060684.D

Acq: 24 Mar 2020 19:46

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 73546

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

