

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060857.D
 Acq On : 6 Apr 2020 17:28
 Operator : JC/MD
 Sample : L2132-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CLEAN-GRAVEL

Quant Time: Apr 07 07:06:15 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	197083	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	331694	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	313828	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144917	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	128917	47.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.30%	
35) Dibromofluoromethane	7.56	113	98293	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
50) Toluene-d8	10.08	98	407297	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.40	95	156692	52.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.38%	

Target Compounds

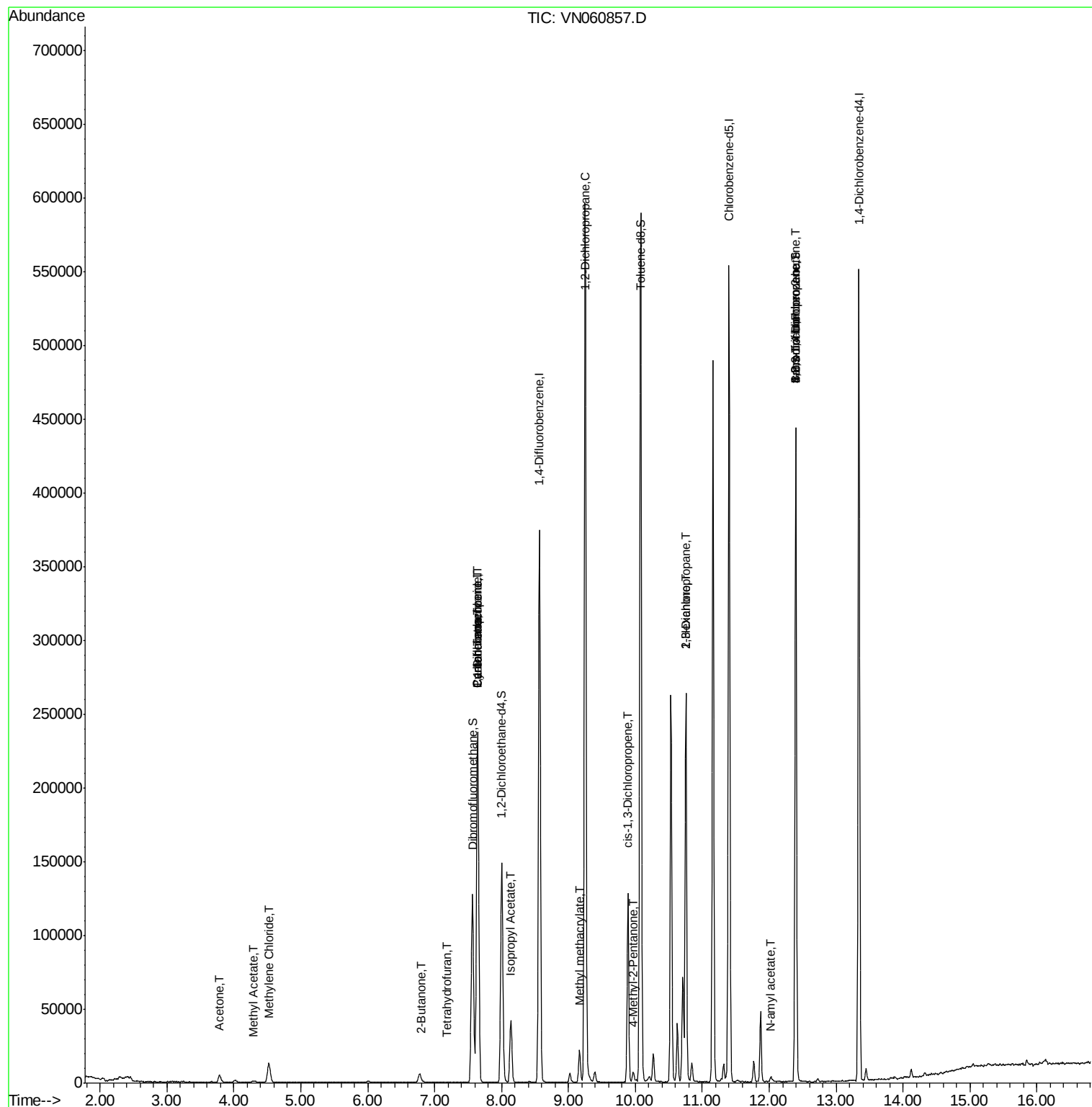
						Qvalue
16) Acetone	3.78	43	8726	9.105	ug/l	92
18) Methyl Acetate	4.30	43	1930	0.715	ug/l #	54
20) Methylene Chloride	4.53	84	10449	4.432	ug/l	95
25) 2-Butanone	6.81	43	1764	1.138	ug/l #	50
29) Tetrahydrofuran	7.18	42	222	0.202	ug/l #	35
31) Cyclohexane	7.64	56	4145	0.951	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15442	4.808	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18636	6.474	ug/l #	17
43) Isopropyl Acetate	8.14	43	51304	8.964	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	554	0.217	ug/l #	43
48) Methyl methacrylate	9.17	41	3394	1.332	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4763	1.462	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	22613	5.583	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2605	0.666	ug/l #	42
59) 2-Hexanone	10.75	43	40138	17.108	ug/l #	51
71) Bromoform	12.40	173	581	1.980	ug/l #	1
74) N-amyl acetate	12.02	43	3104	0.618	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	78360	25.059	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78360	64.359	ug/l #	13

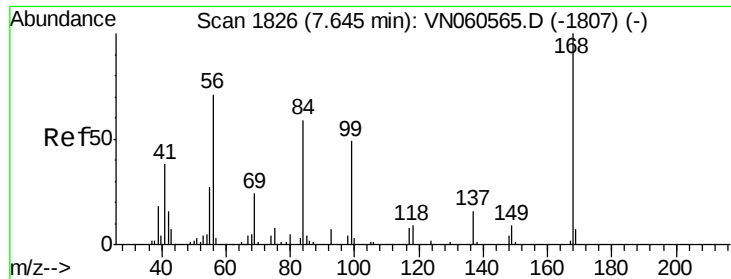
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

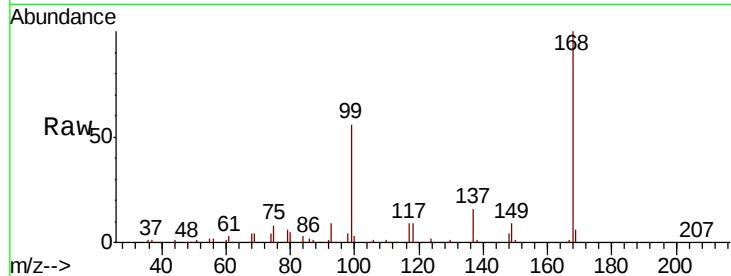
CLEAN-GRAVEL

Tot Ion:168 Resp: 197083

Ion Ratio Lower Upper

168 100

99 56.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060857.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060857.D (-1733) (-)

7.64

80000

60000

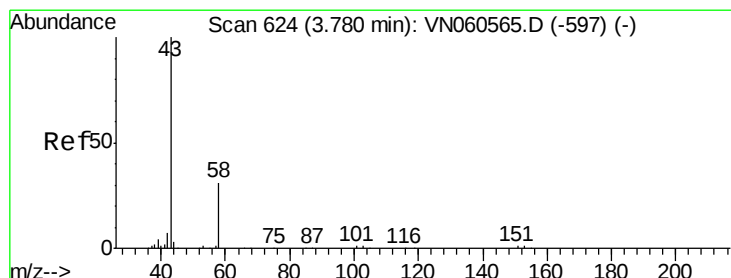
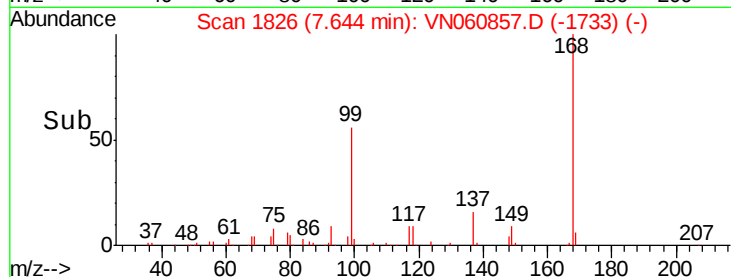
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 9.105 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060857.D

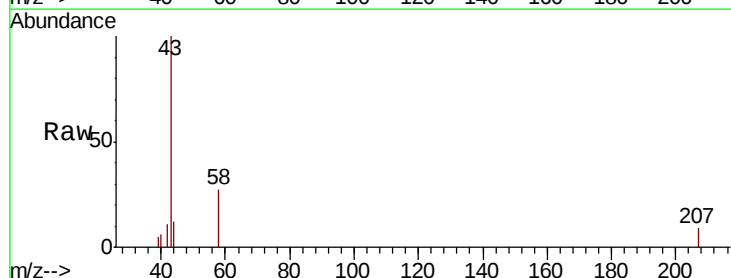
Acq: 6 Apr 2020 17:28

Tgt Ion: 43 Resp: 8726

Ion Ratio Lower Upper

43 100

58 27.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060857.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060857.D (-531) (-)

3.78

3000

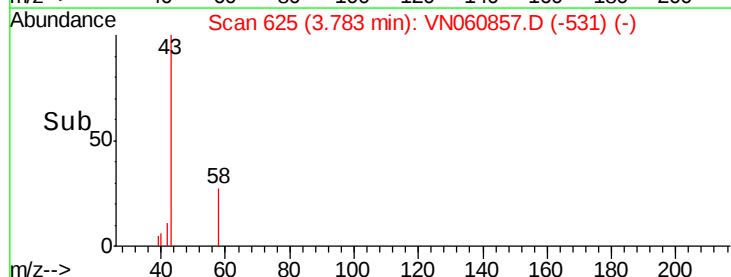
2000

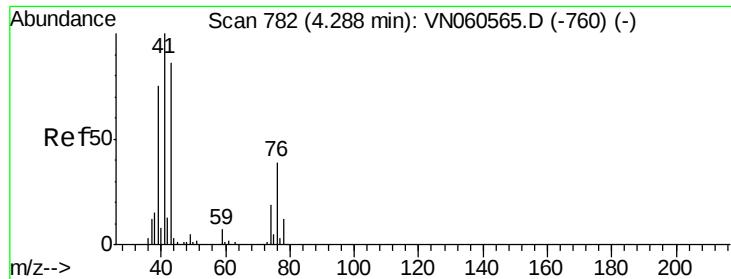
1000

0

3.70 3.75 3.80 3.85

Time-->

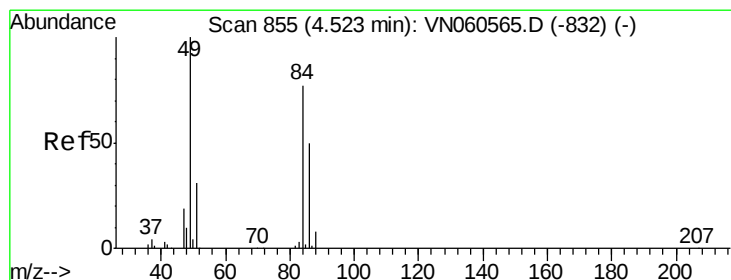
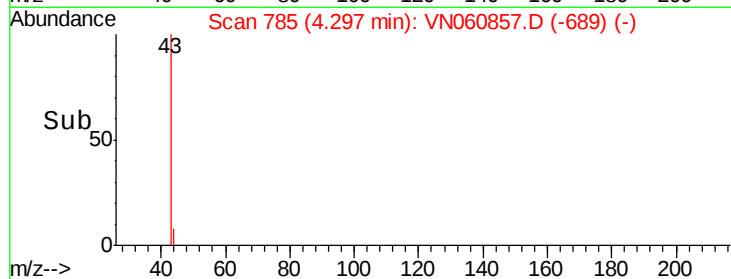
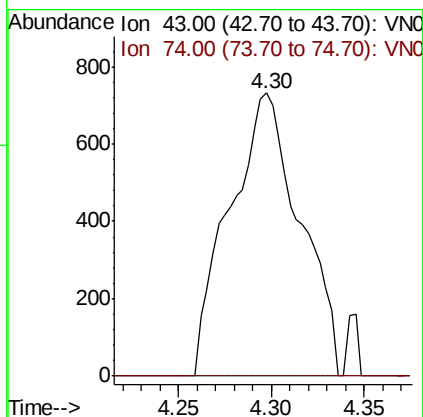
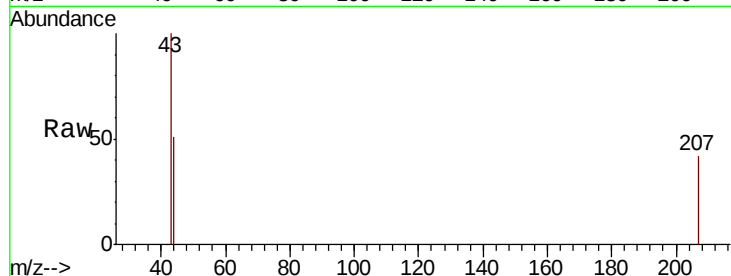




#18
Methyl Acetate
Concen: 0.715 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060857.D
Acq: 6 Apr 2020 17:28

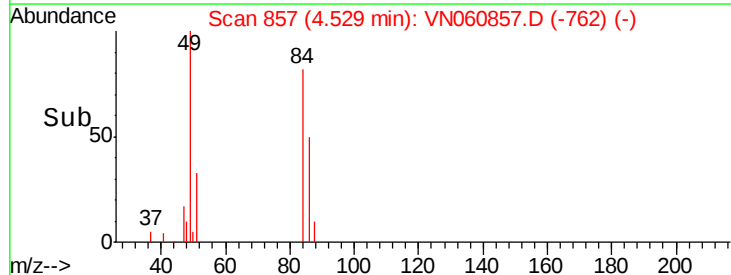
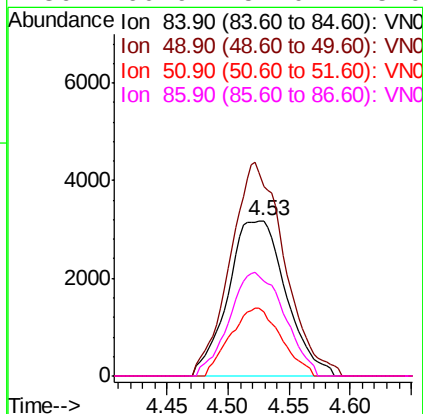
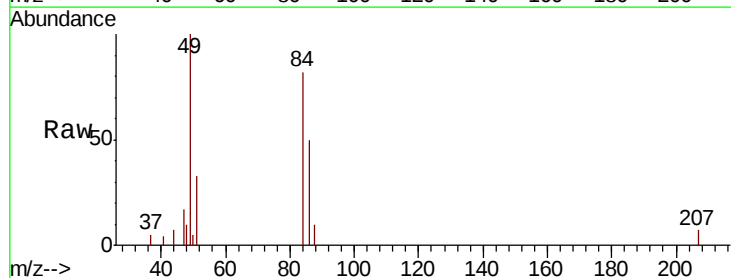
Instrument :
MSVOA_N
ClientSampleId :
CLEAN-GRAVEL

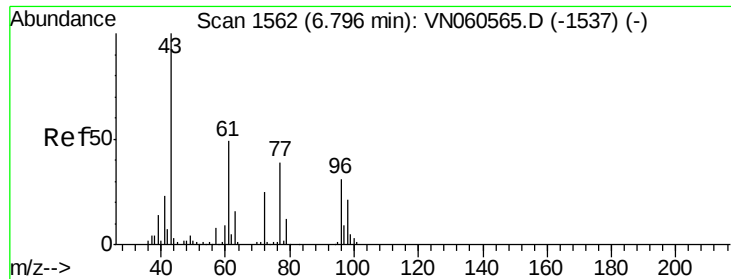
Tot Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 4.432 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060857.D
Acq: 6 Apr 2020 17:28

Tgt Ion: 84 Resp: 10449
Ion Ratio Lower Upper
84 100
49 122.4 103.3 154.9
51 41.0 31.6 47.4
86 60.9 52.0 78.0





#25

2-Butanone

Concen: 1.138 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

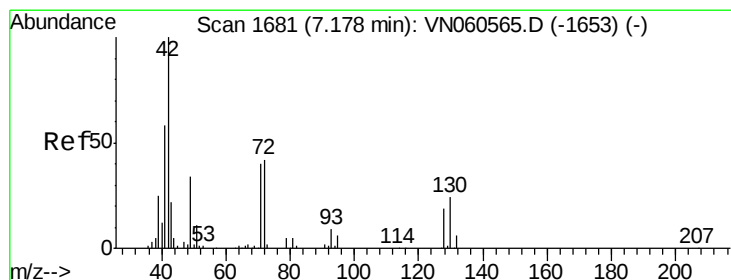
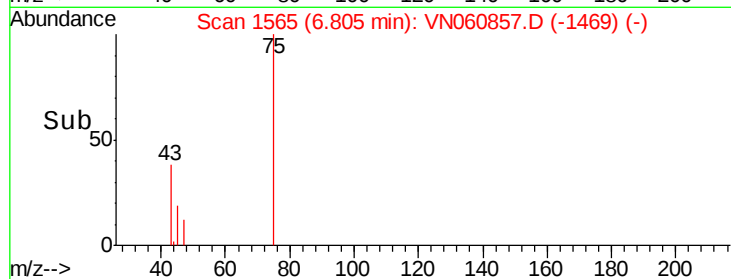
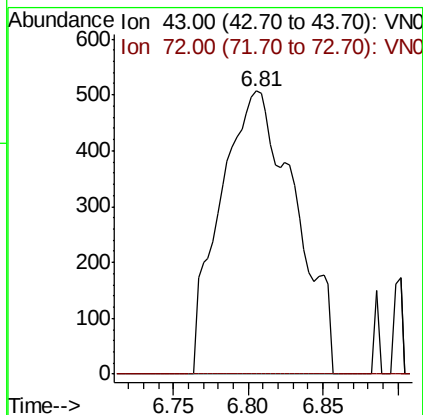
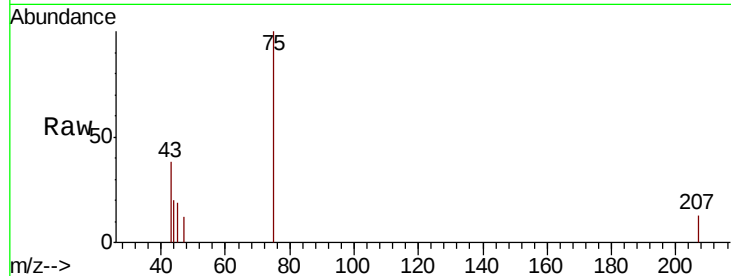
CLEAN-GRAVEL

Tot Ion: 43 Resp: 1764

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



#29

Tetrahydrofuran

Concen: 0.202 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

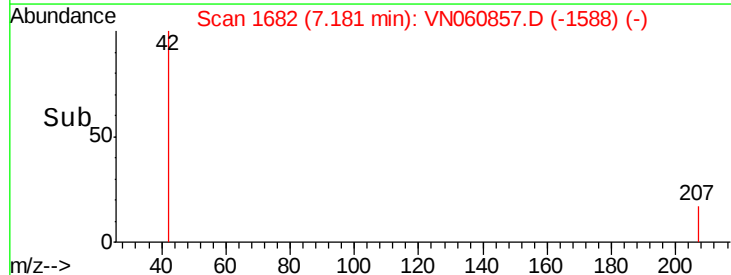
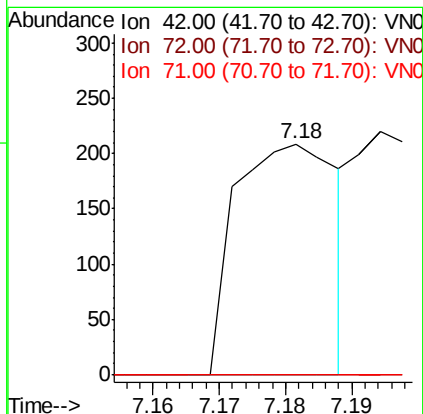
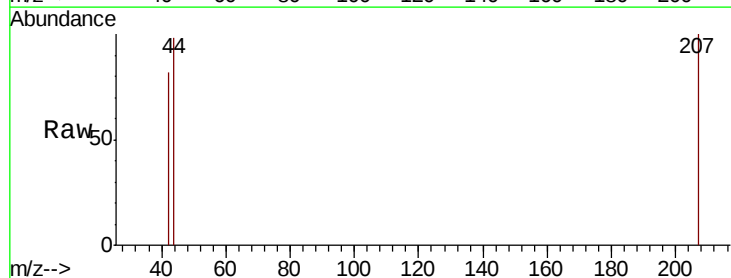
Tgt Ion: 42 Resp: 222

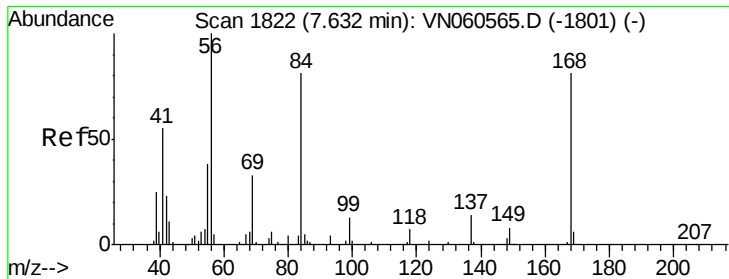
Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#





#31

Cyclohexane

Concen: 0.951 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

CLEAN-GRAVEL

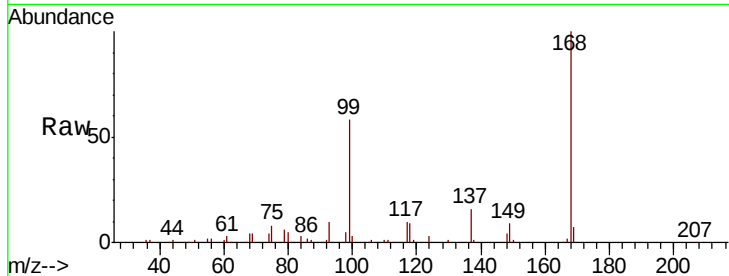
Tot Ion: 56 Resp: 4145

Ion Ratio Lower Upper

56 100

69 188.5 26.6 40.0#

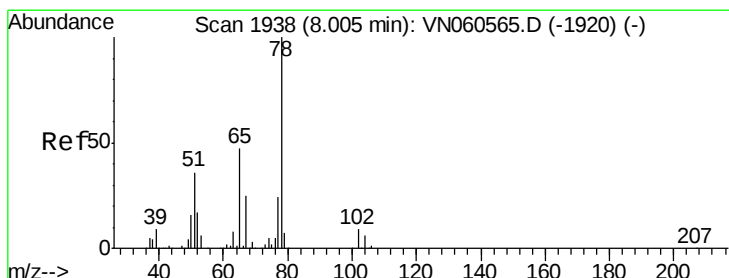
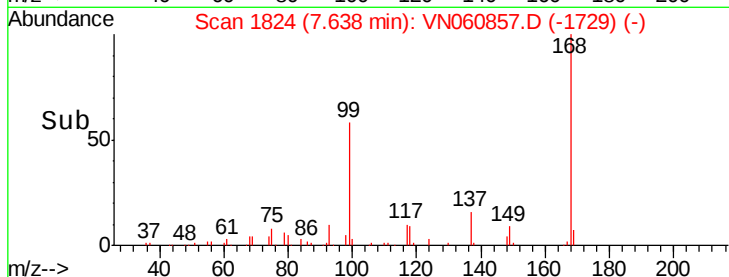
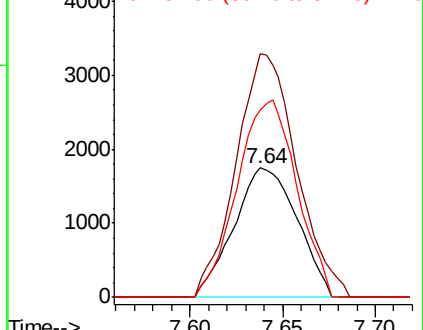
84 144.9 64.3 96.5#



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: 47.650 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060857.D

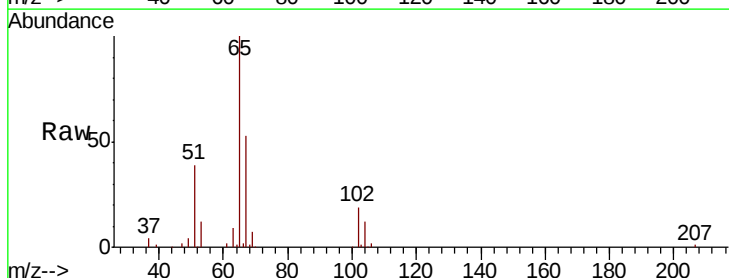
Acq: 6 Apr 2020 17:28

Tgt Ion: 65 Resp: 128917

Ion Ratio Lower Upper

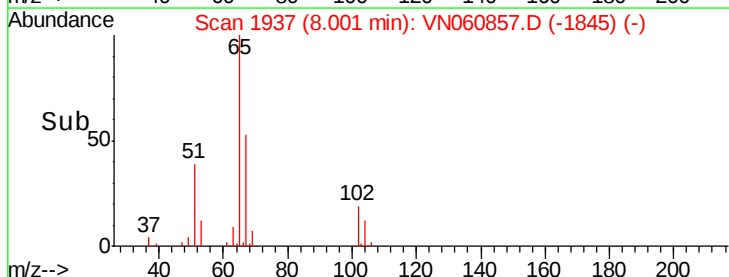
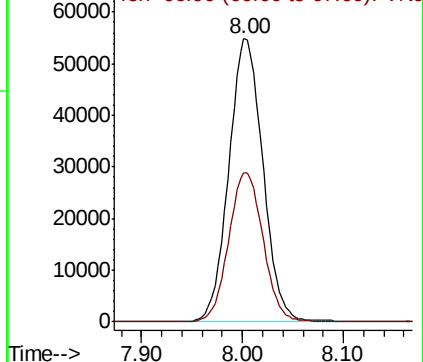
65 100

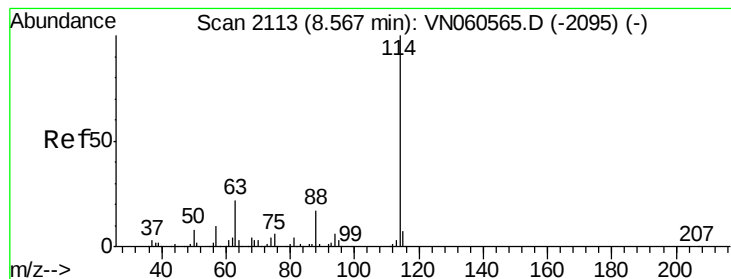
67 53.2 0.0 107.6



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: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

CLEAN-GRAVEL

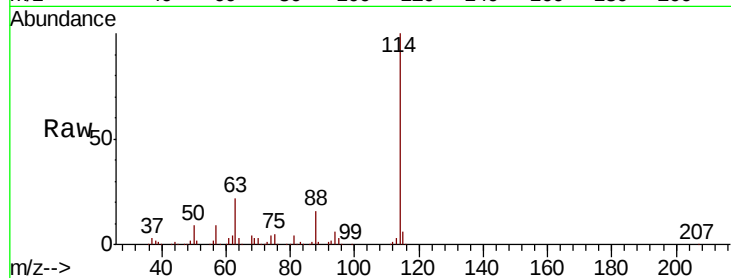
Tot Ion:114 Resp: 331694

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.8

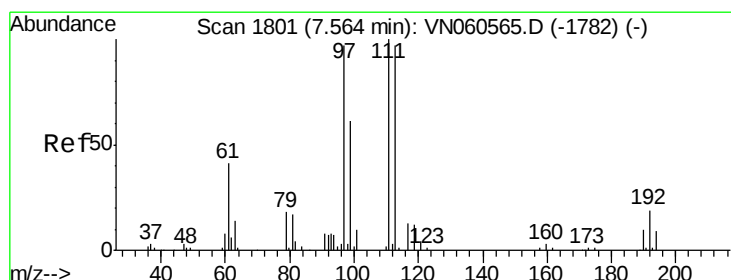
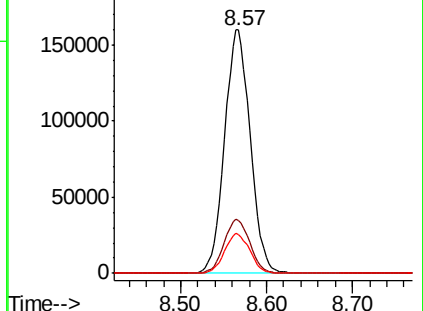
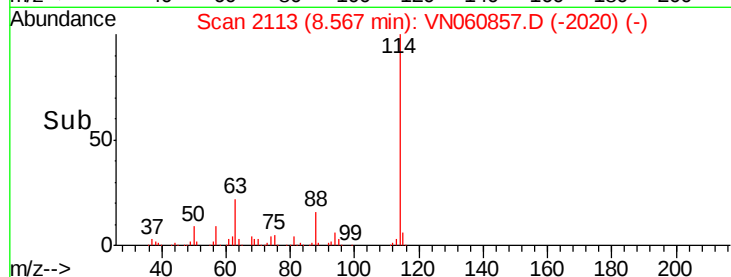
88 16.1 0.0 33.0



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: 49.008 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

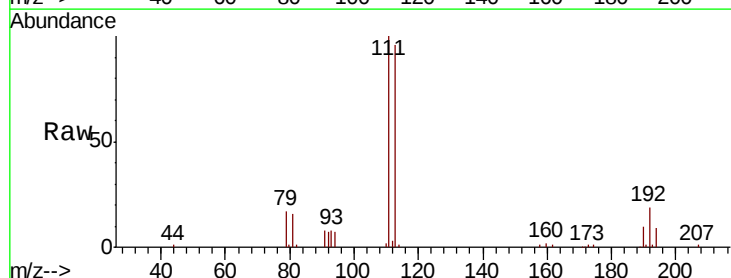
Tgt Ion:113 Resp: 98293

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

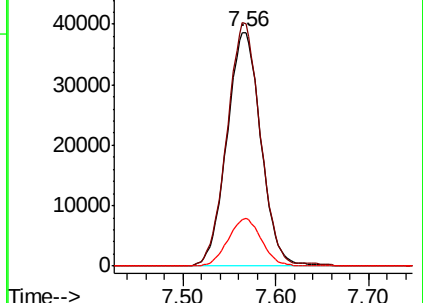
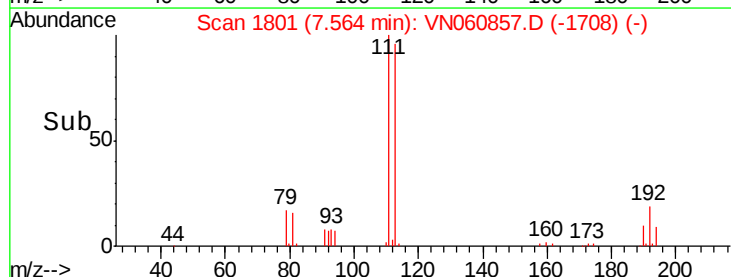
192 20.0 15.8 23.8

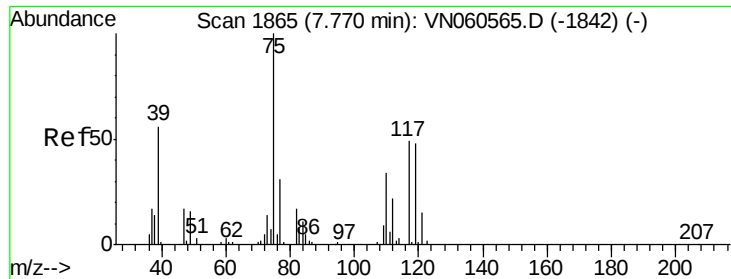


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

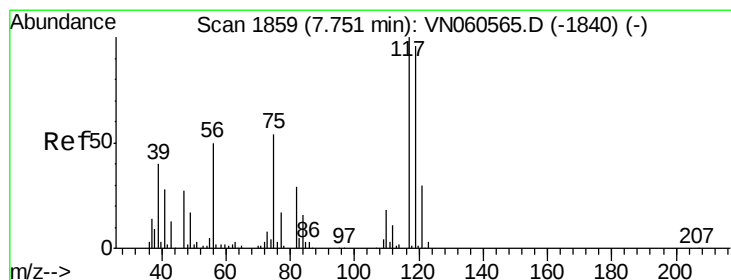
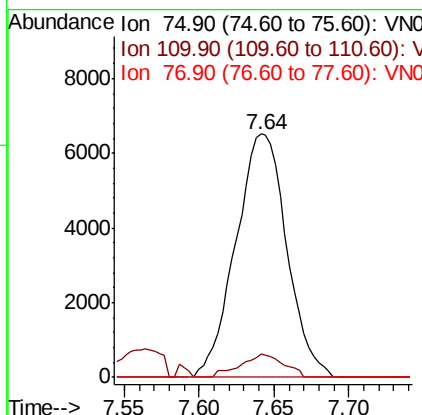
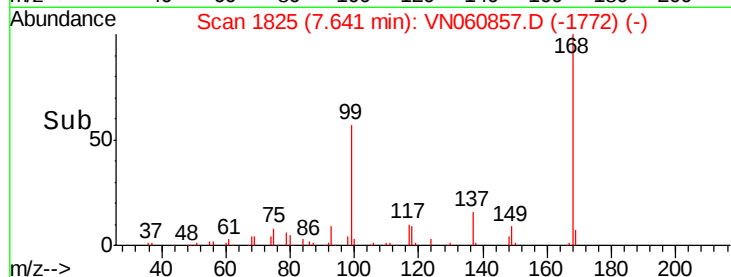
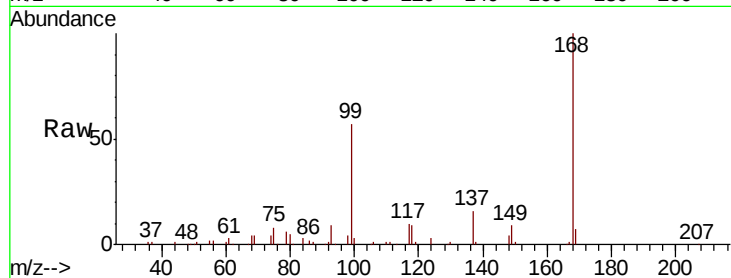




#36
 1,1-Dichloropropene
 Concen: 4.808 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060857.D
 Acq: 6 Apr 2020 17:28

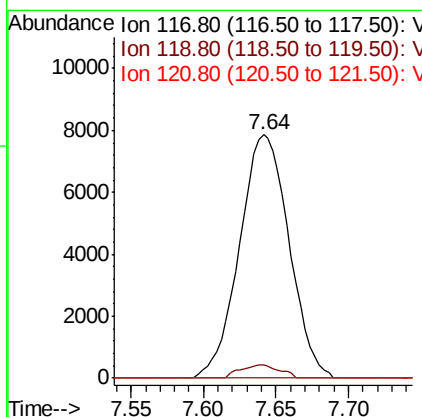
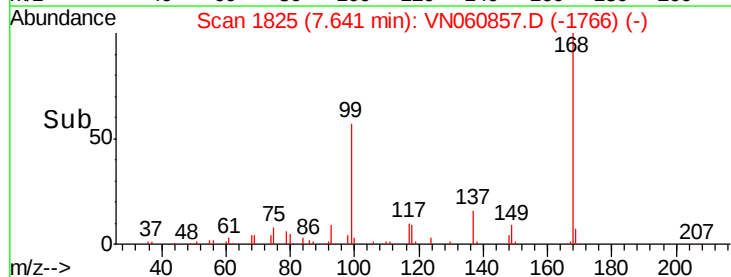
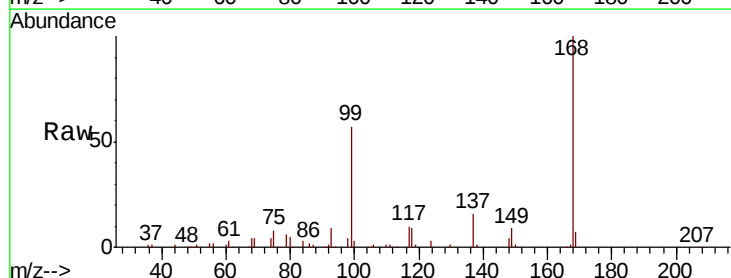
Instrument :
 MSVOA_N
 ClientSampleId :
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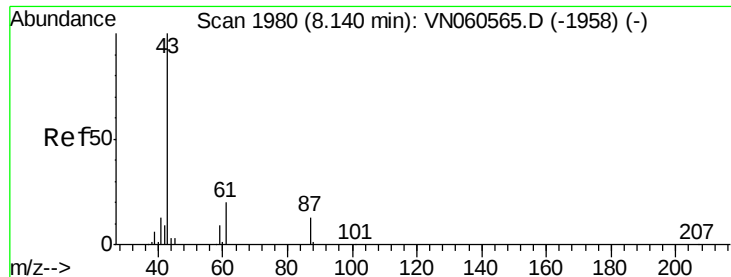
Tot Ion	75	Resp	15442
Ion Ratio	Lower	Upper	
75	100		
110	8.1	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.474 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060857.D
 Acq: 6 Apr 2020 17:28

Tgt Ion	117	Resp	18636
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.5	76.2	114.2#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 8.964 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

CLEAN-GRAVEL

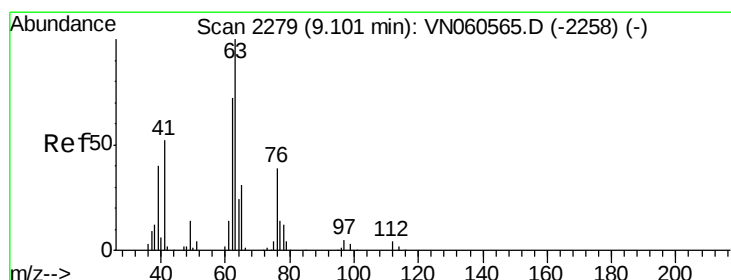
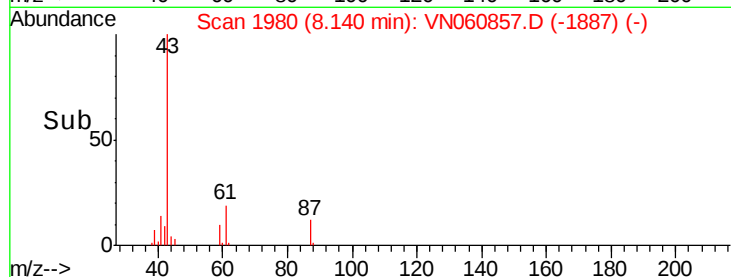
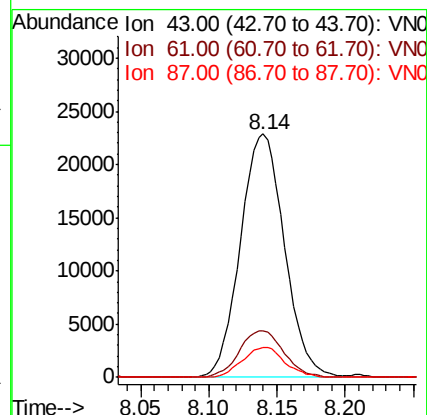
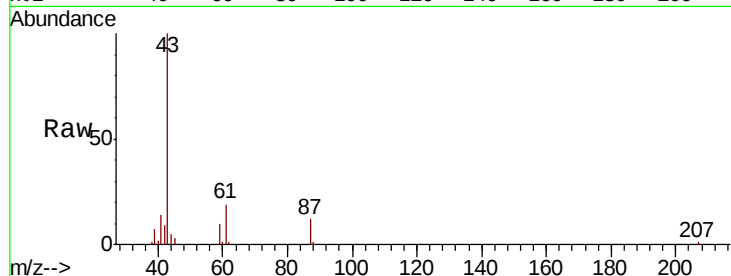
Tot Ion: 43 Resp: 51304

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

87 11.8 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.217 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060857.D

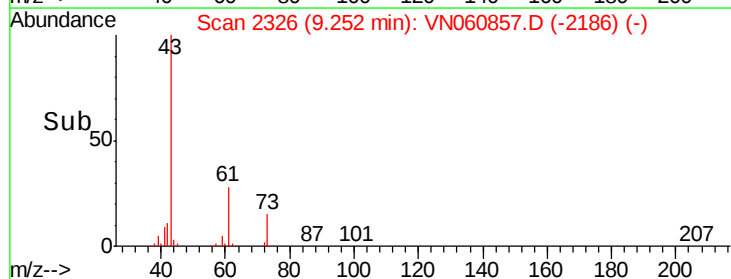
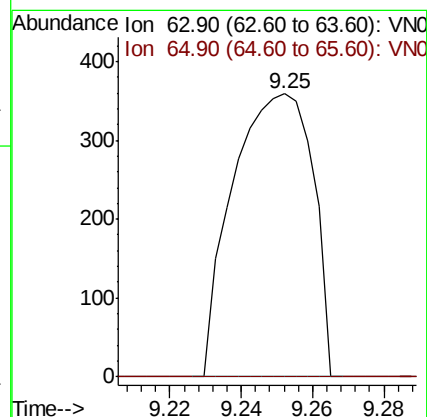
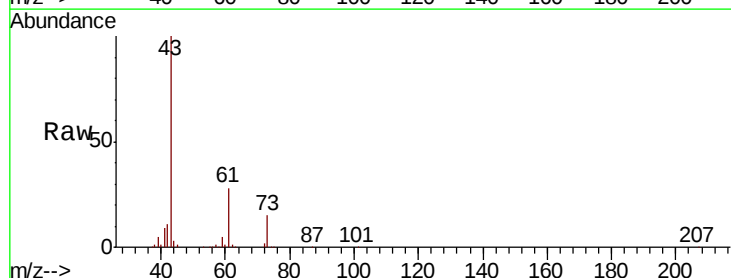
Acq: 6 Apr 2020 17:28

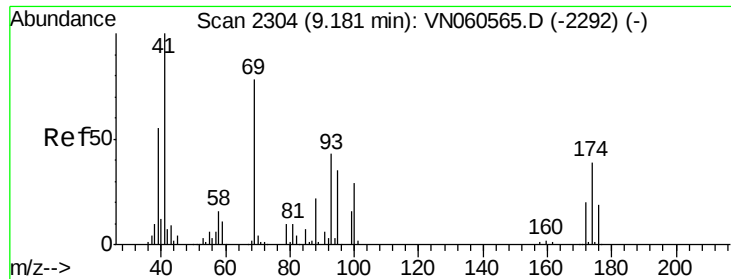
Tgt Ion: 63 Resp: 554

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

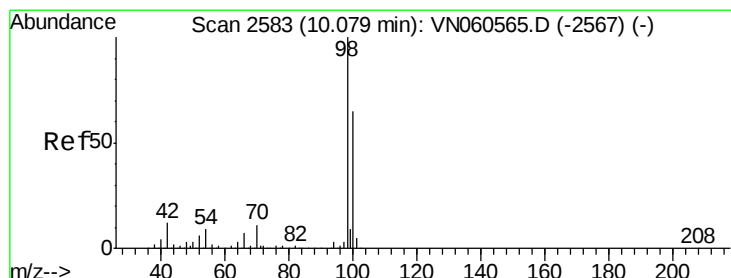
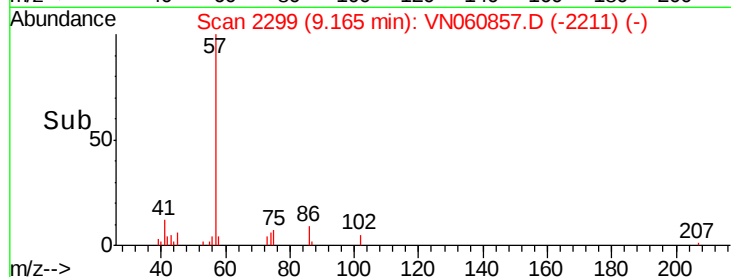
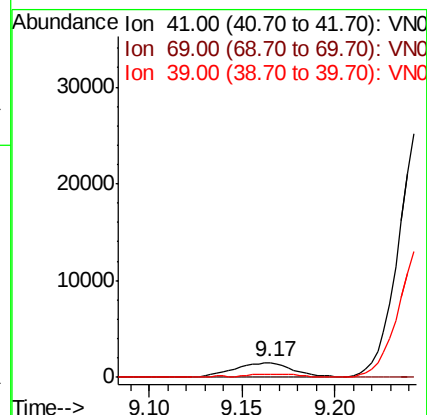
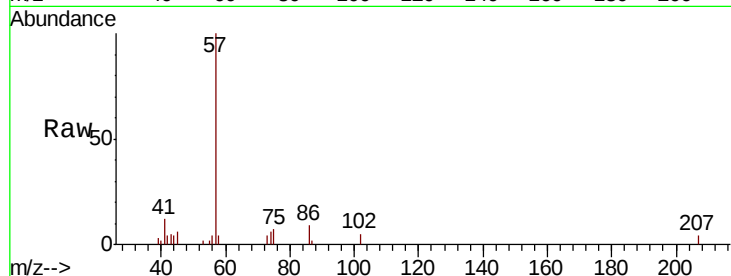




#48
Methvl methacrylate
Concen: 1.332 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN060857.D
Acq: 6 Apr 2020 17:28

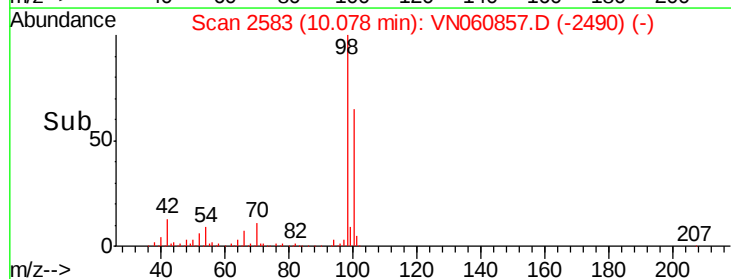
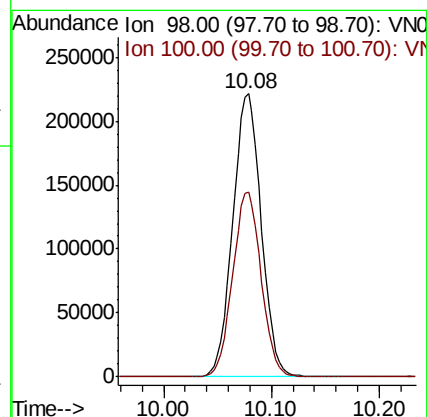
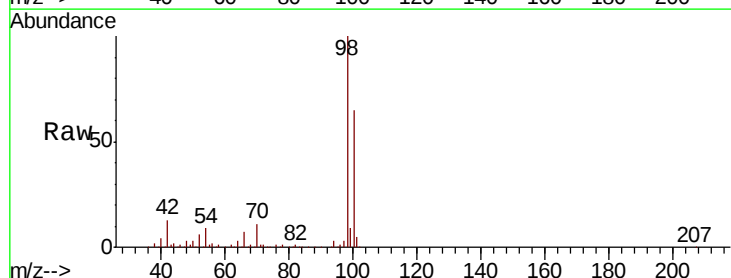
Instrument :
MSVOA_N
ClientSampleId :
CLEAN-GRAVEL

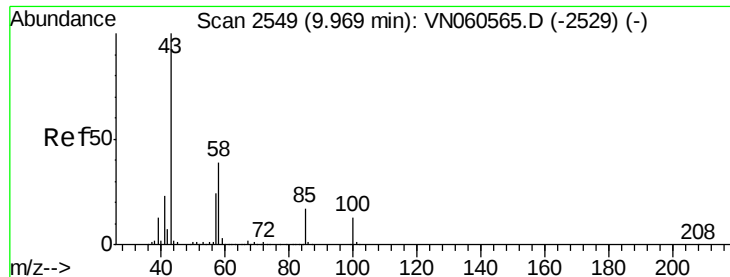
Tot Ion: 41 Resp: 3394
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.717 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060857.D
Acq: 6 Apr 2020 17:28

Tgt Ion: 98 Resp: 407297
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8

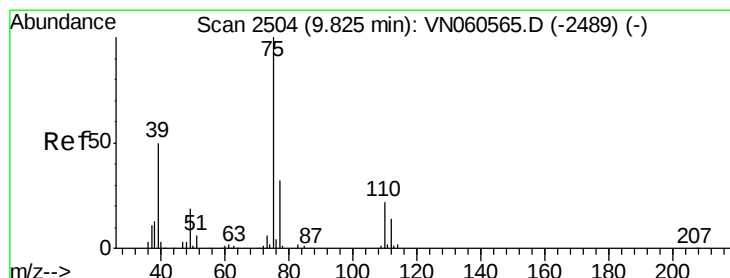
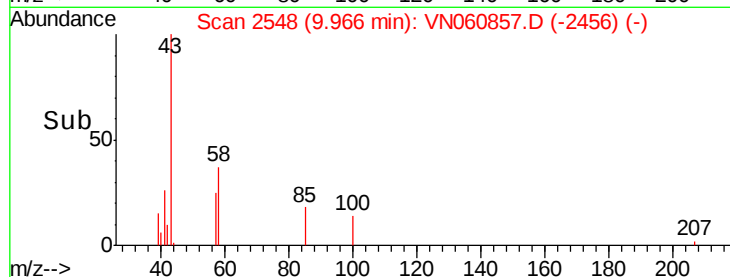
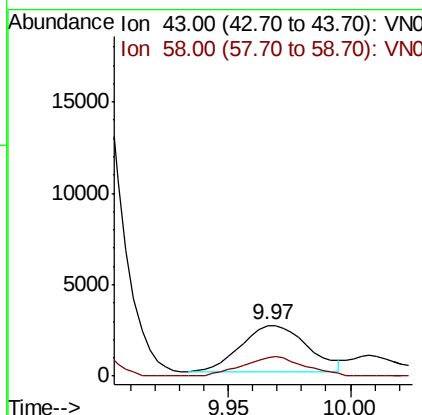
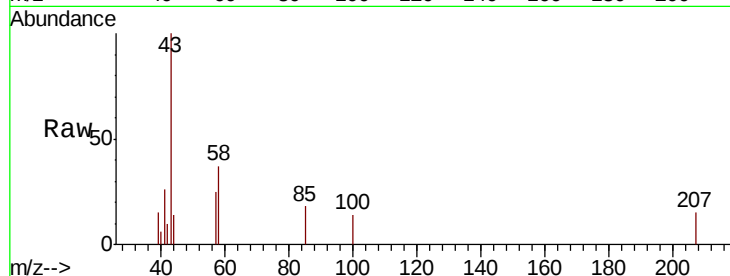




#51
 4-Methyl-2-Pentanone
 Concen: 1.462 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060857.D
 Acq: 6 Apr 2020 17:28

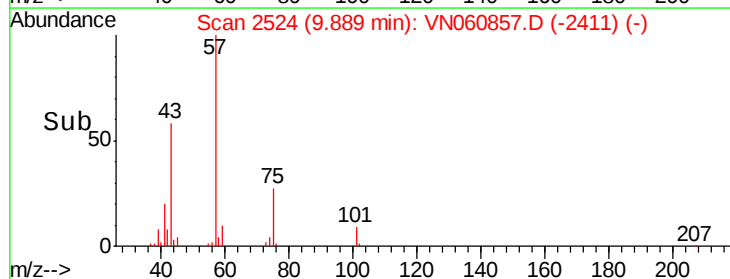
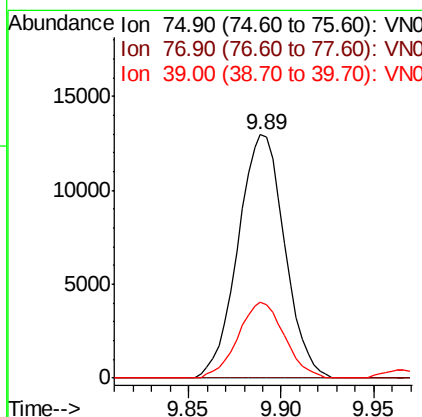
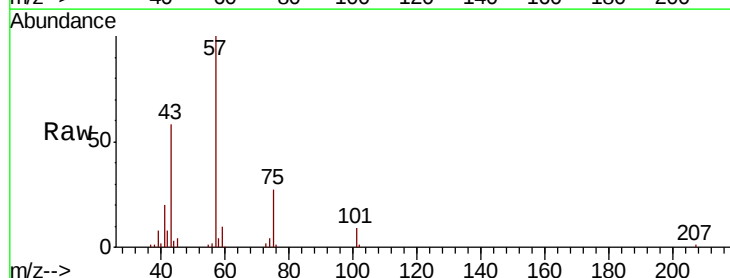
Instrument :
 MSVOA_N
 ClientSampleId :
 CLEAN-GRAVEL

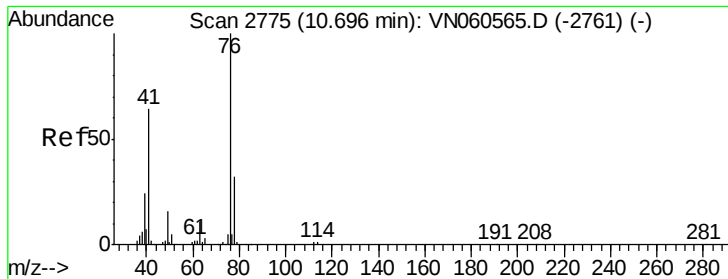
Tot Ion: 43 Resp: 4763
 Ion Ratio Lower Upper
 43 100
 58 38.9 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.583 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060857.D
 Acq: 6 Apr 2020 17:28

Tgt Ion: 75 Resp: 22613
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.3 40.2 60.4#

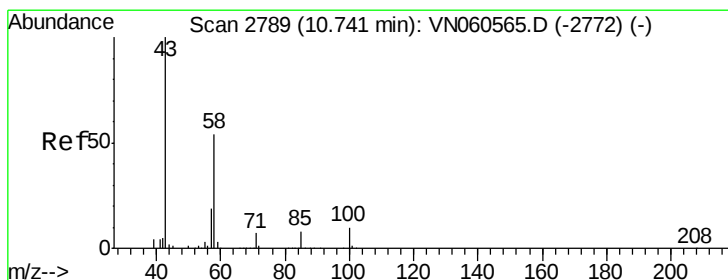
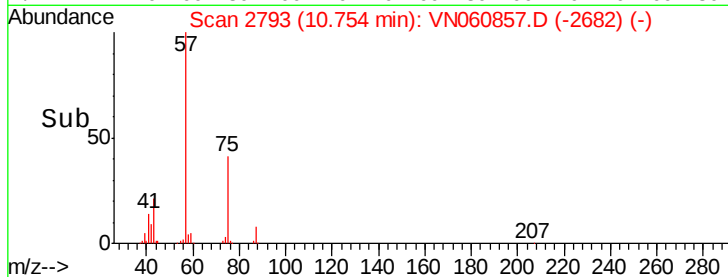
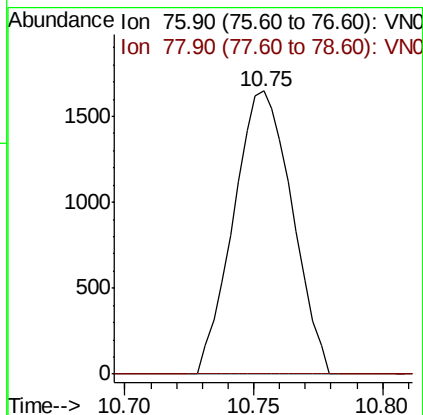
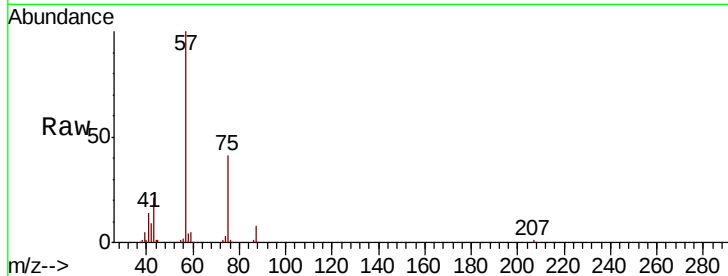




#57
 1,3-Dichloropropane
 Concen: 0.666 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060857.D
 Acq: 6 Apr 2020 17:28

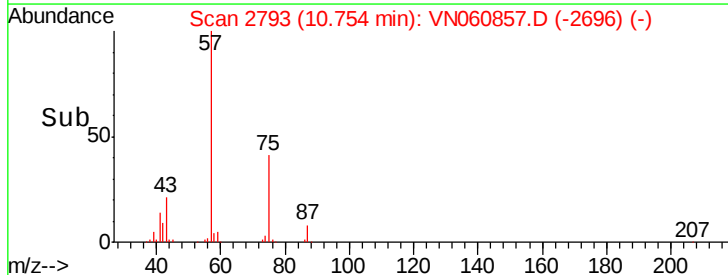
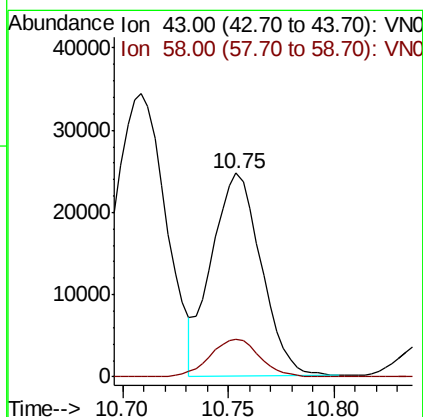
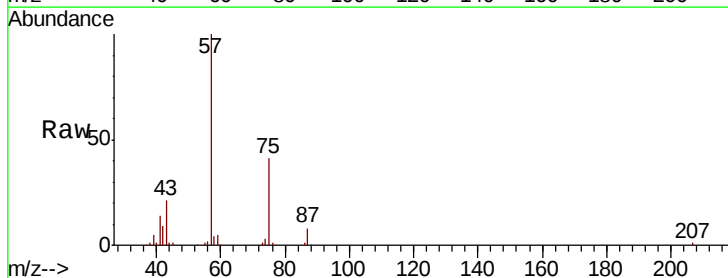
Instrument :
 MSVOA_N
 ClientSampleId :
 CLEAN-GRAVEL

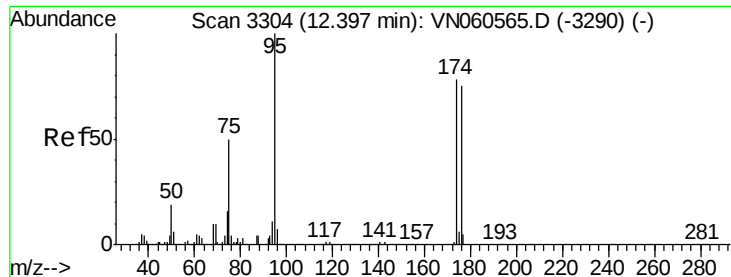
Tot Ion: 76 Resp: 2605
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 17.108 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060857.D
 Acq: 6 Apr 2020 17:28

Tgt Ion: 43 Resp: 40138
 Ion Ratio Lower Upper
 43 100
 58 18.7 26.7 80.1#

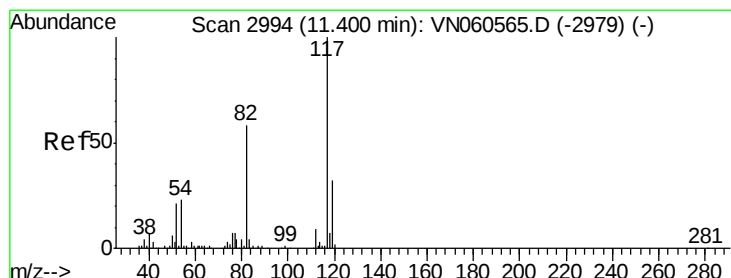
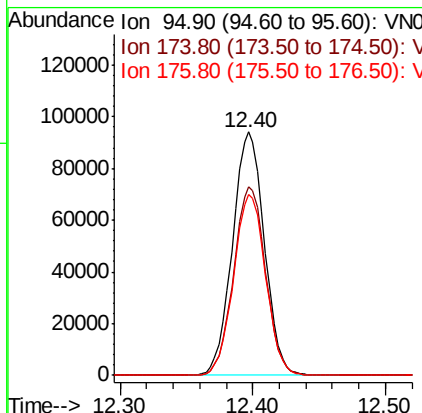
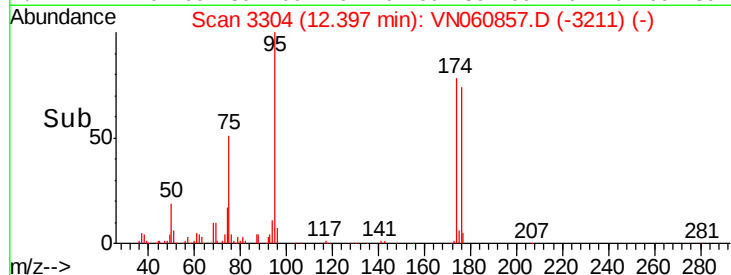
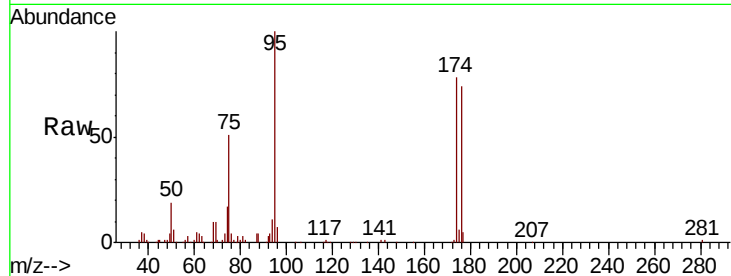




#62
4-Bromofluorobenzene
Concen: 52.190 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060857.D
Acq: 6 Apr 2020 17:28

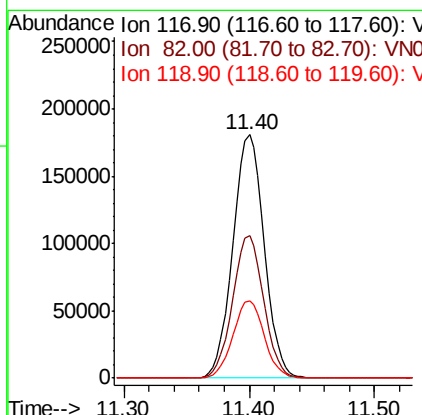
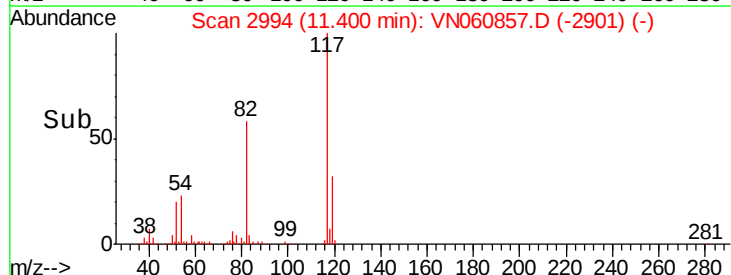
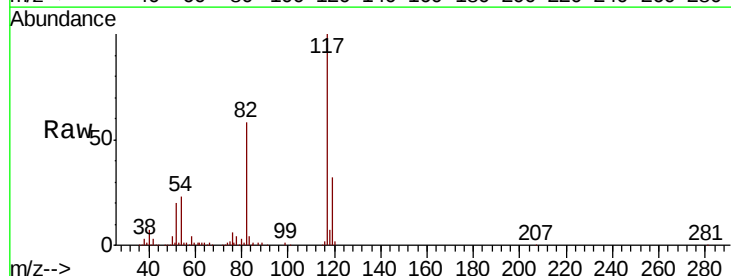
Instrument :
MSVOA_N
ClientSampleId :
CLEAN-GRAVEL

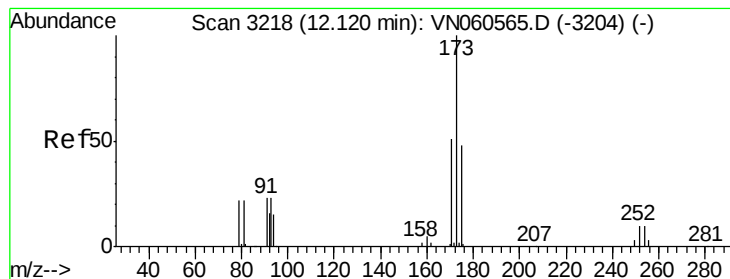
Tot Ion: 95 Resp: 156692
Ion Ratio Lower Upper
95 100
174 77.6 0.0 157.6
176 74.8 0.0 150.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060857.D
Acq: 6 Apr 2020 17:28

Tgt Ion: 117 Resp: 313828
Ion Ratio Lower Upper
117 100
82 58.5 46.7 70.1
119 31.9 25.5 38.3





#71

Bromoform

Concen: 1.980 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

CLEAN-GRAVEL

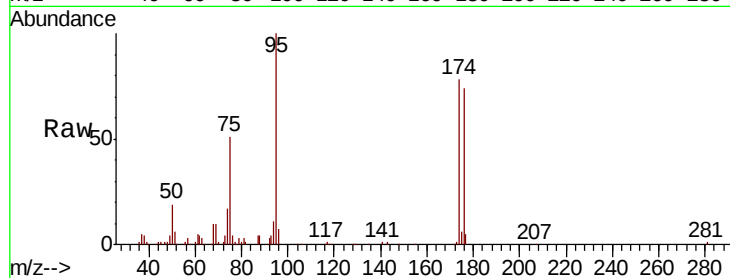
Tot Ion:173 Resp: 581

Ion Ratio Lower Upper

173 100

175 1271.4 24.1 72.4#

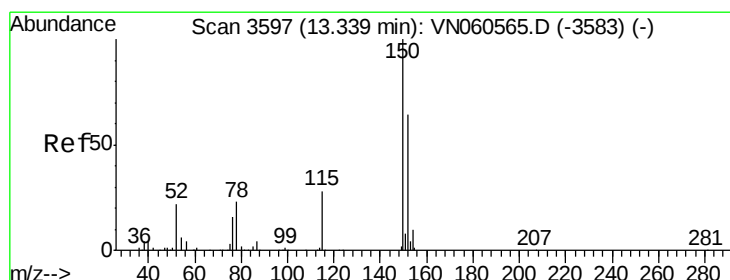
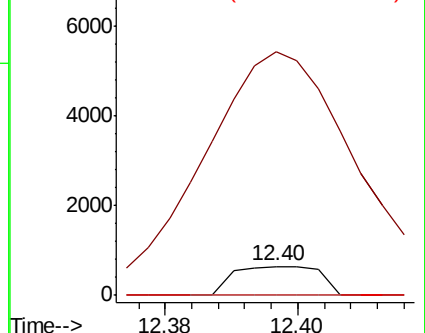
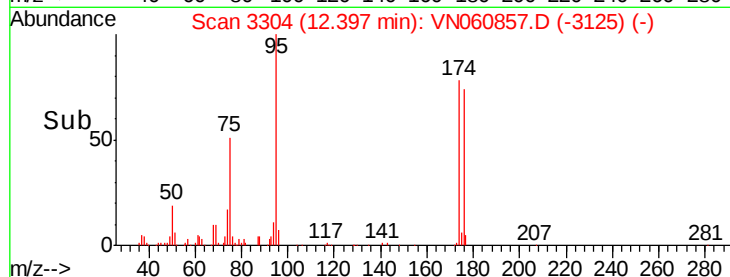
254 0.0 0.0 0.0



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: VN060857.D

Acq: 6 Apr 2020 17:28

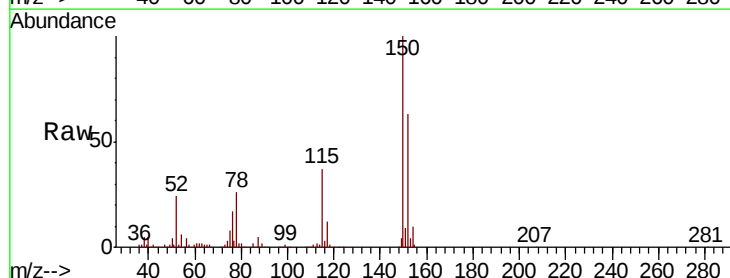
Tgt Ion:152 Resp: 144917

Ion Ratio Lower Upper

152 100

115 59.9 30.2 90.6

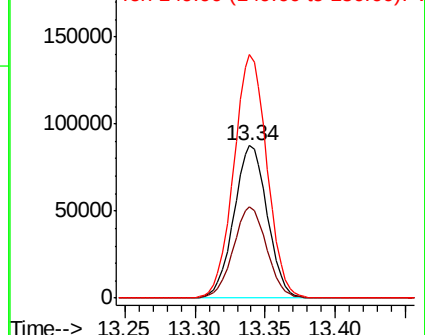
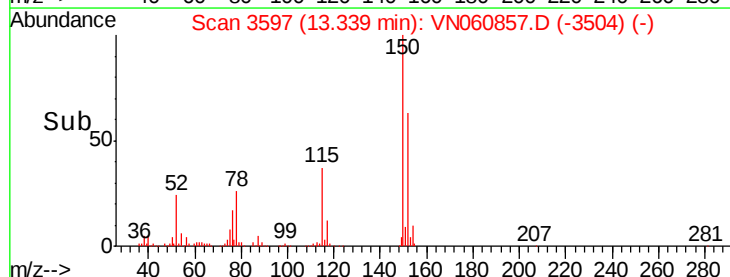
150 158.8 0.0 350.2

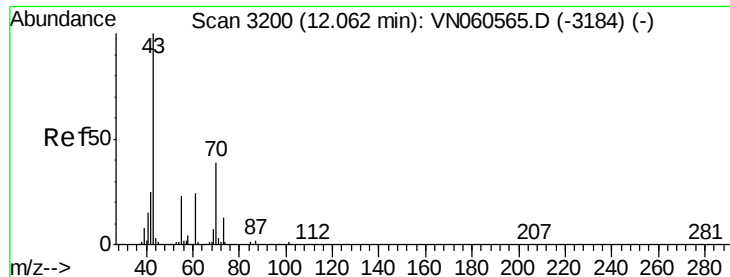


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.618 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

CLEAN-GRAVEL

Tot Ion: 43 Resp: 3104

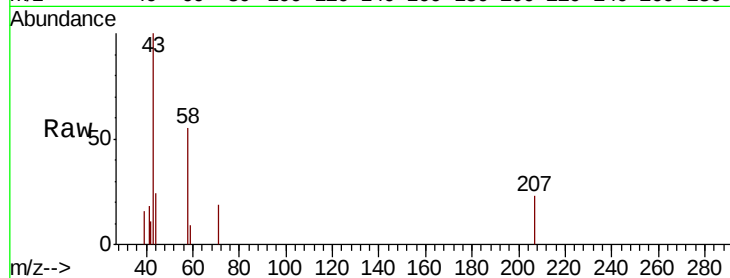
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

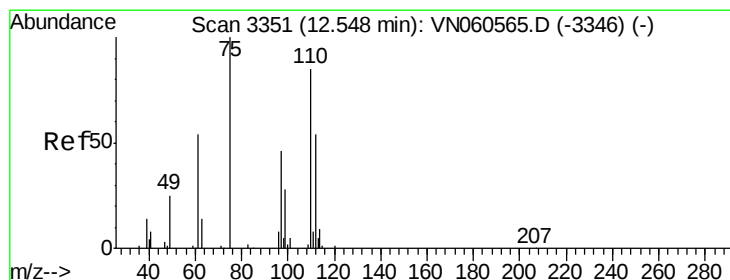
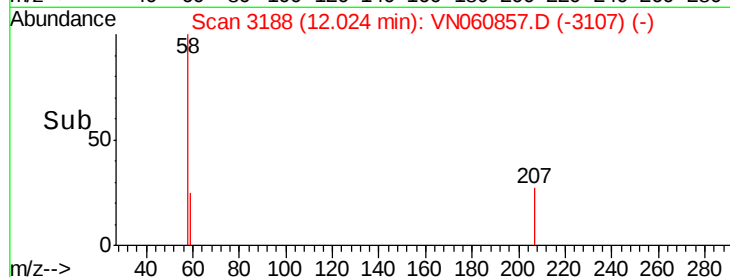
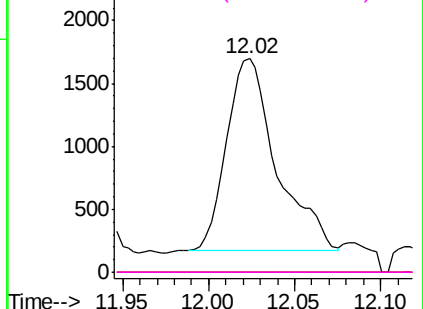


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.059 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060857.D

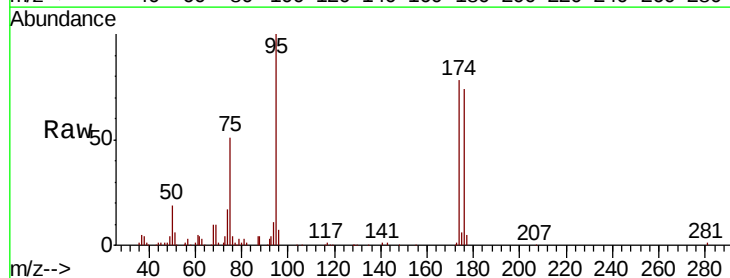
Acq: 6 Apr 2020 17:28

Tgt Ion: 75 Resp: 78360

Ion Ratio Lower Upper

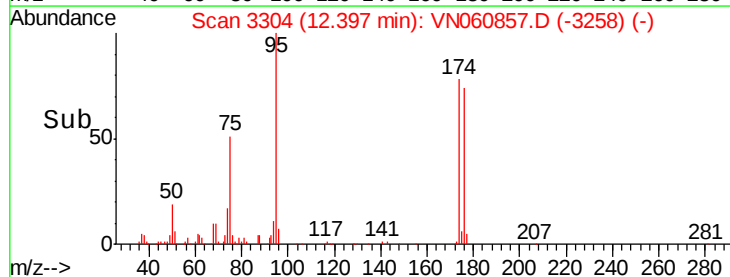
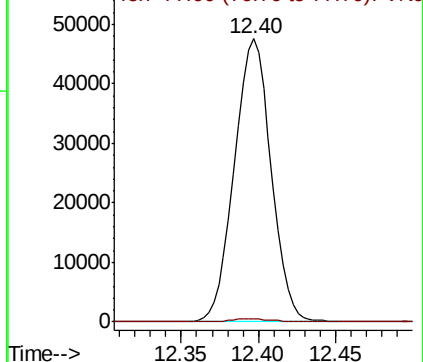
75 100

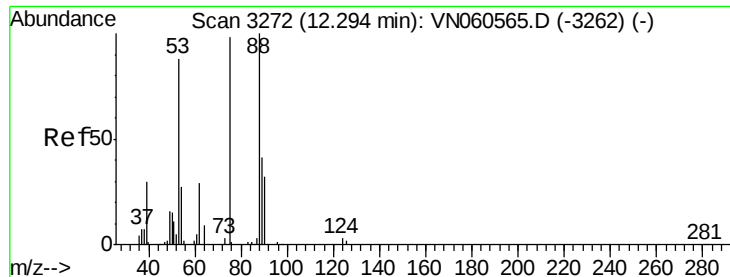
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.359 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060857.D

Acq: 6 Apr 2020 17:28

Instrument :

MSVOA_N

ClientSampleId :

CLEAN-GRAVEL

Tot Ion: 75 Resp: 78360

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

