

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057868.D
 Acq On : 10 Sep 2019 17:24
 Operator : JC/SP
 Sample : K4623-23
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C4-(0)

Quant Time: Sep 11 03:55:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	294151	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	493597	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	454448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228927	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	294419	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
35) Dibromofluoromethane	7.58	113	199941	43.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.78%	
50) Toluene-d8	10.09	98	815236	46.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.18%	
62) 4-Bromofluorobenzene	12.40	95	262746	38.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.96%	

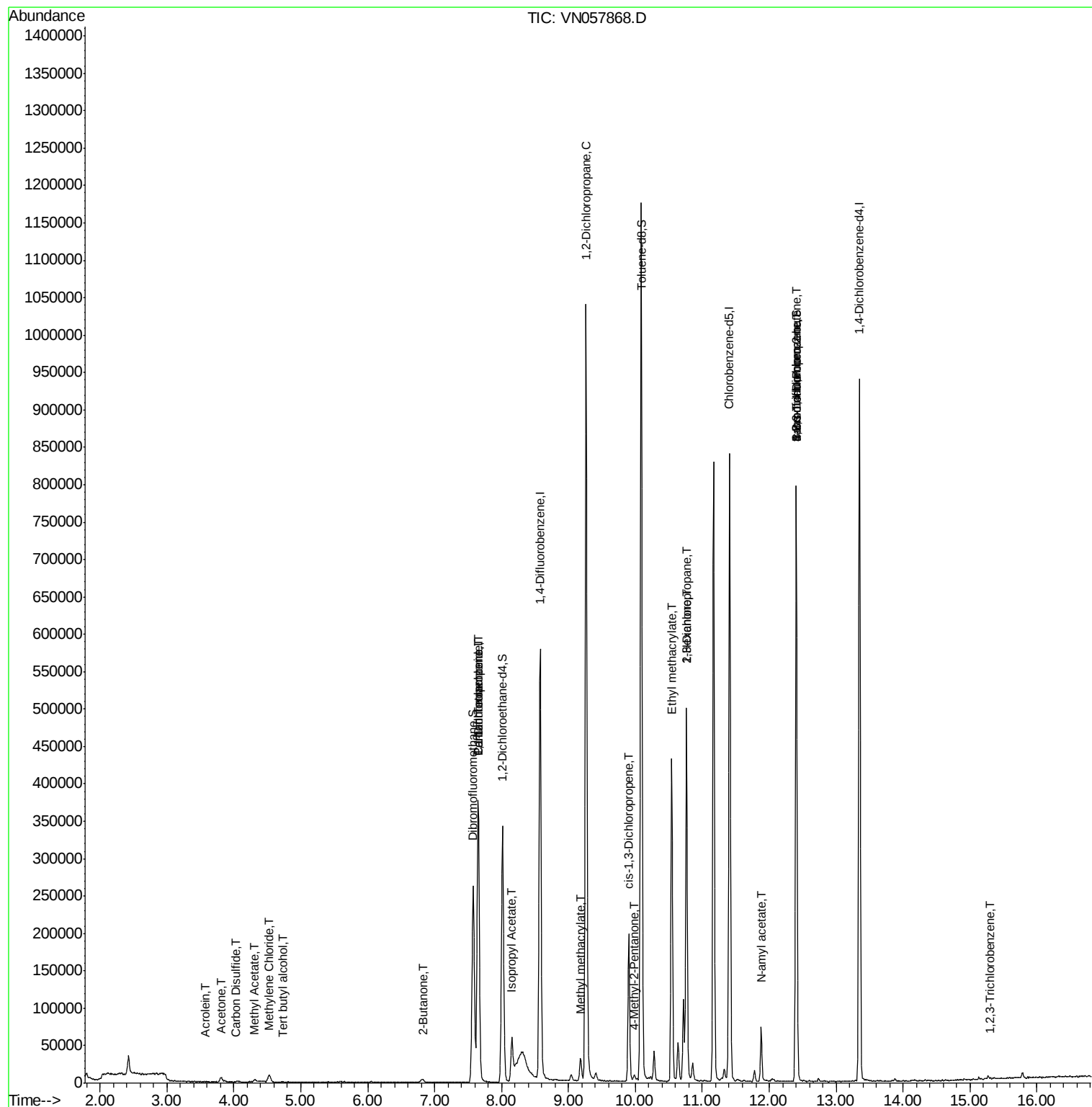
Target Compounds					Qvalue
5) Bromomethane	2.53	94	66	Below Cal	# 2
11) Tert butyl alcohol	4.74	59	176	0.244	ug/l # 72
13) Acrolein	3.59	56	156	0.255	ug/l # 14
16) Acetone	3.81	43	9673	4.953	ug/l 92
17) Carbon Disulfide	4.03	76	304	0.221	ug/l # 75
18) Methyl Acetate	4.31	43	7107	1.365	ug/l # 86
20) Methylene Chloride	4.53	84	6715	0.590	ug/l 89
25) 2-Butanone	6.84	43	2009	0.711	ug/l 97
31) Cyclohexane	7.65	56	7754	Below Cal	# 8
36) 1,1-Dichloropropene	7.65	75	26861	4.692	ug/l # 50
38) Carbon Tetrachloride	7.65	117	29933	5.727	ug/l # 16
43) Isopropyl Acetate	8.16	43	74963	7.537	ug/l # 90
45) 1,2-Dichloropropane	9.26	63	1195	0.238	ug/l # 44
48) Methyl methacrylate	9.18	41	3252	0.645	ug/l # 13
51) 4-Methyl-2-Pentanone	9.98	43	5064	0.860	ug/l 93
54) cis-1,3-Dichloropropene	9.90	75	34657	4.926	ug/l # 68
56) Ethyl methacrylate	10.54	69	1811	0.262	ug/l # 1
57) 1,3-Dichloropropane	10.76	76	5198	0.656	ug/l # 43
59) 2-Hexanone	10.76	43	74680	16.928	ug/l # 53
71) Bromoform	12.40	173	793	0.308	ug/l # 1
74) N-amyl acetate	11.88	43	23249	3.007	ug/l # 53
76) 1,2,3-Trichloropropane	12.40	75	145369	28.070	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.40	75	145369	98.780	ug/l # 6
95) Naphthalene	15.13	128	2073	Below Cal	# 90
96) 1,2,3-Trichlorobenzene	15.30	180	328	1.068	ug/l # 20

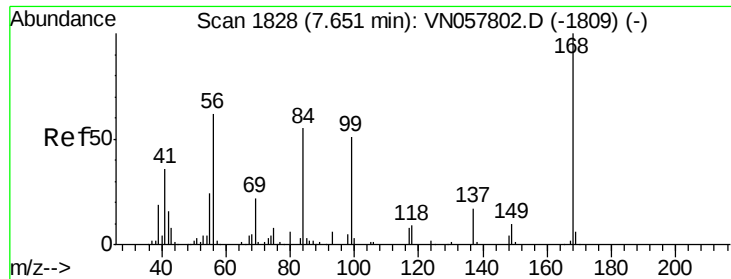
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

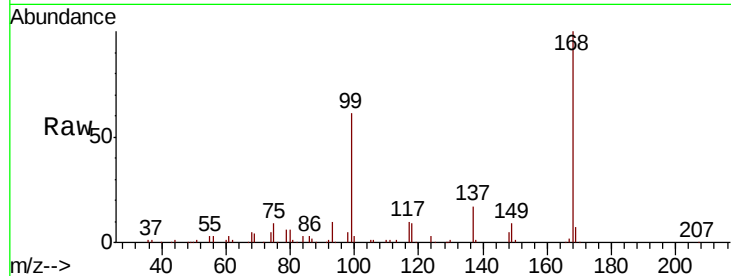
PAR-11-C4-(0)

Tgt Ion: 168 Resp: 294151

Ion Ratio Lower Upper

168 100

99 61.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

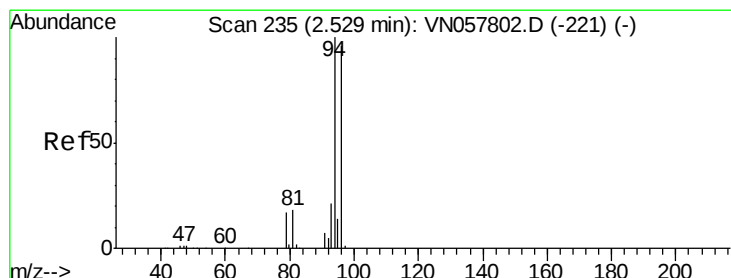
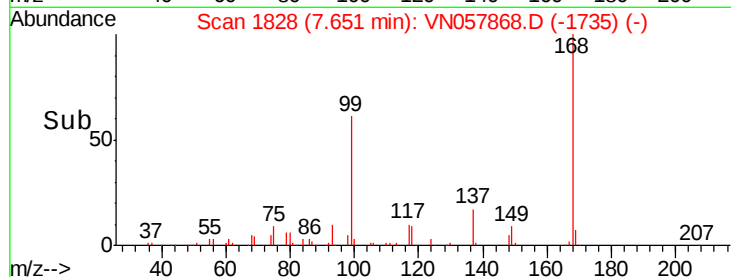
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 234

Delta R.T. -0.00 min

Lab File: VN057868.D

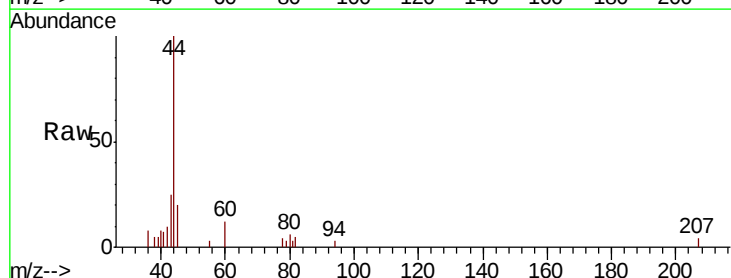
Acq: 10 Sep 2019 17:24

Tgt Ion: 94 Resp: 66

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.53

200

150

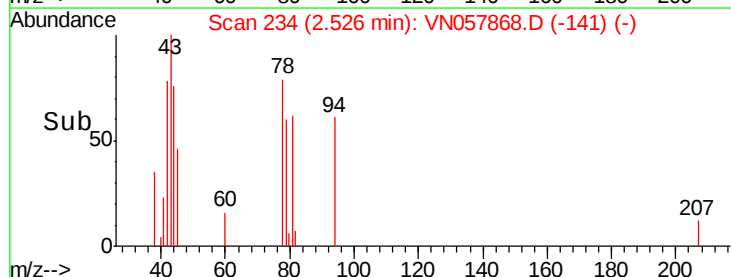
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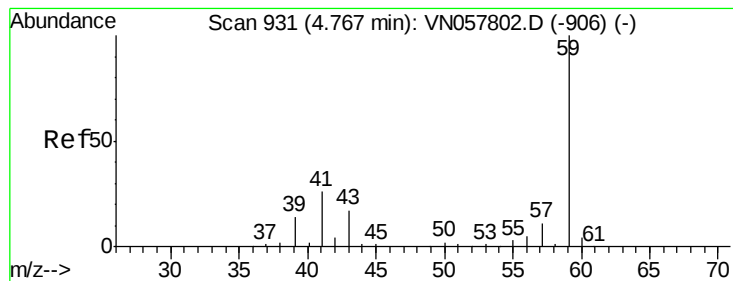
50

0

2.52 2.53 2.54

Time-->





#11

Tert butyl alcohol

Concen: 0.244 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.03 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

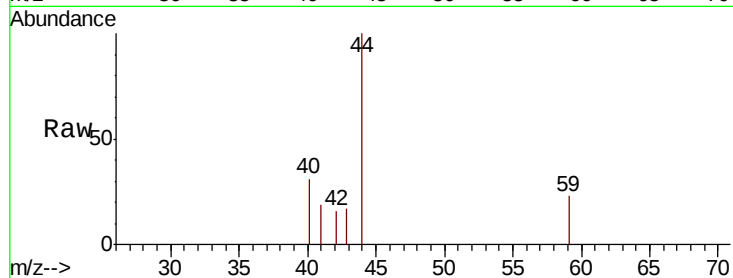
PAR-11-C4-(0)

Tgt Ion: 59 Resp: 176

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

250

200

150

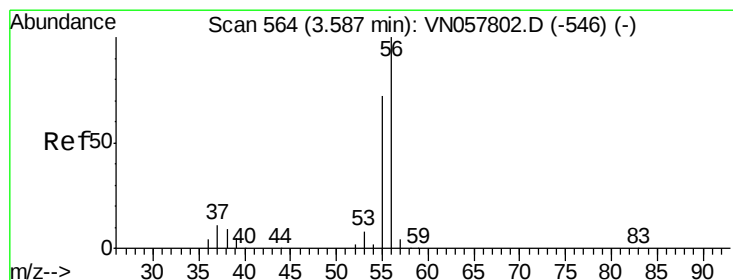
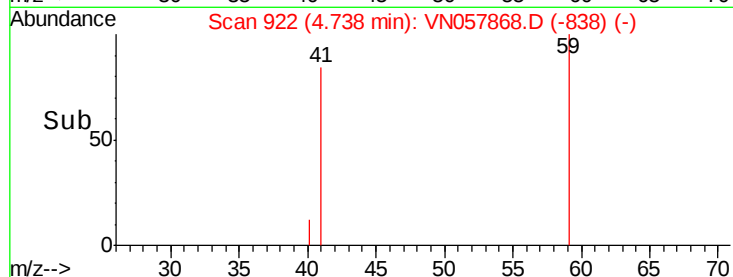
100

50

0

4.71 4.72 4.73 4.74 4.75

Time-->



#13

Acrolein

Concen: 0.255 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN057868.D

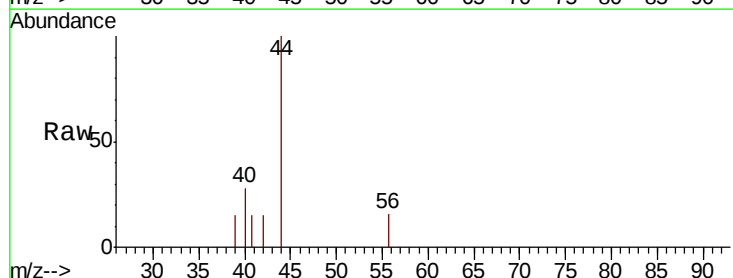
Acq: 10 Sep 2019 17:24

Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

200

150

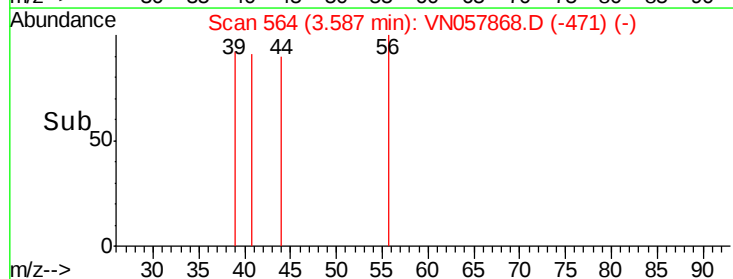
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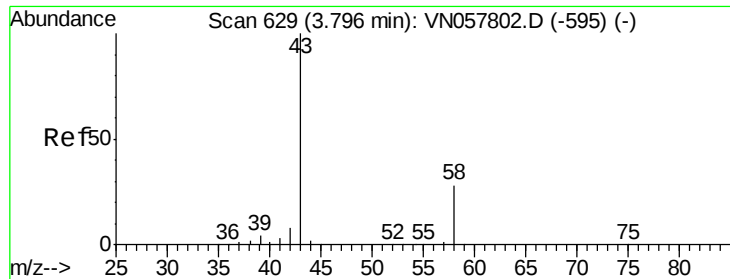
50

0

3.57 3.58 3.59 3.60

Time-->





#16

Acetone

Concen: 4.953 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

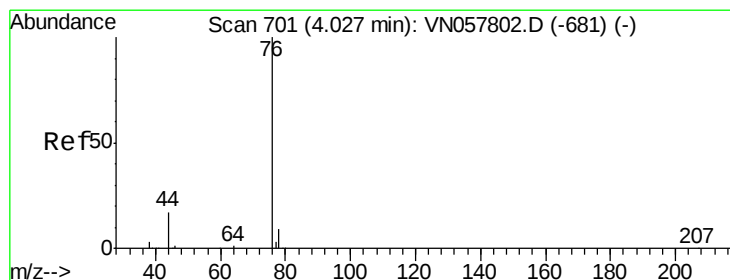
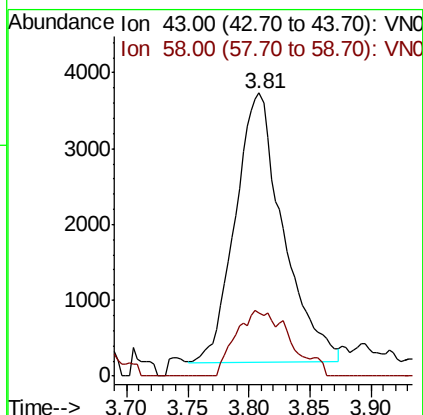
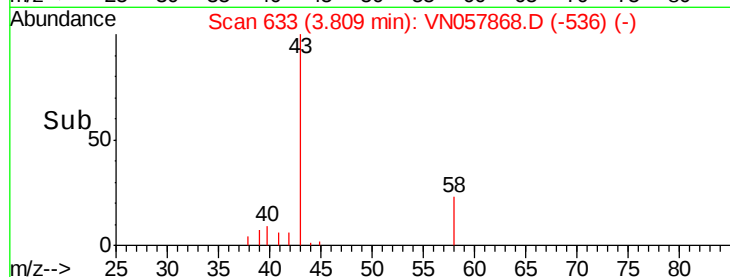
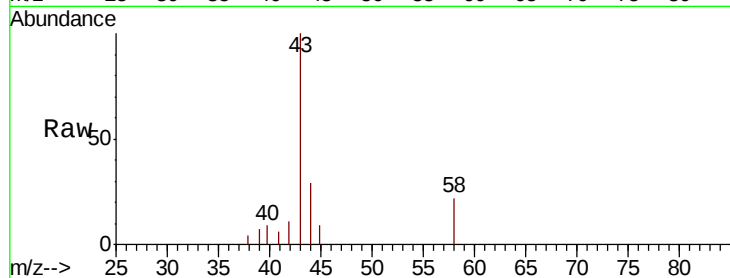
PAR-11-C4-(0)

Tgt Ion: 43 Resp: 9673

Ion Ratio Lower Upper

43 100

58 23.4 22.2 33.2



#17

Carbon Disulfide

Concen: 0.221 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN057868.D

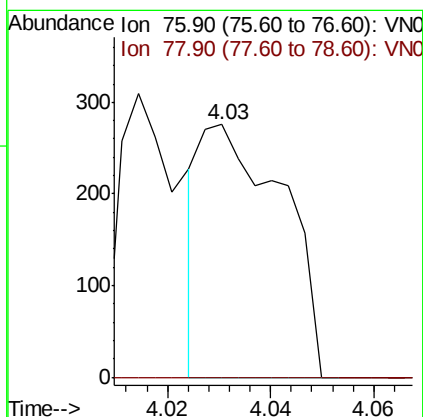
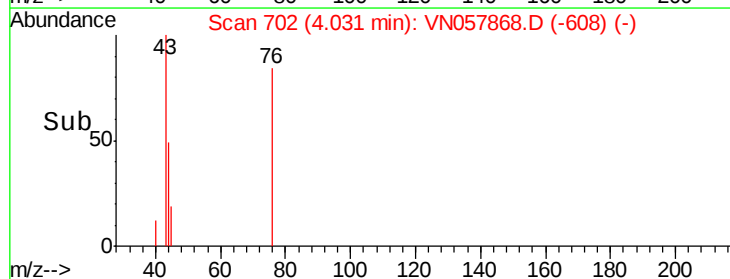
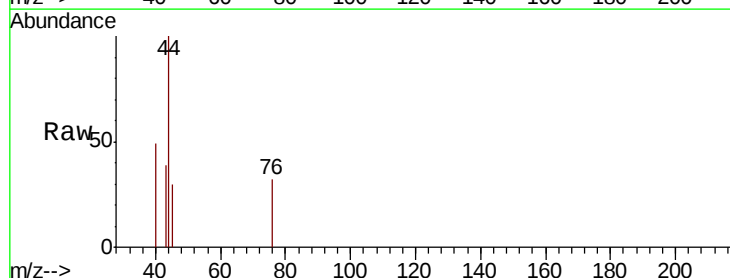
Acq: 10 Sep 2019 17:24

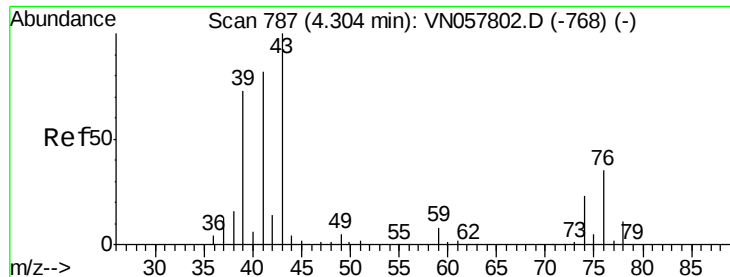
Tgt Ion: 76 Resp: 304

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

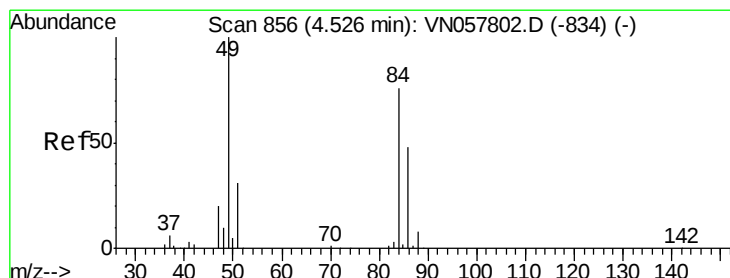
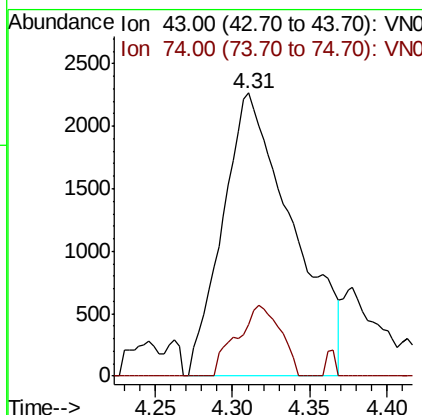
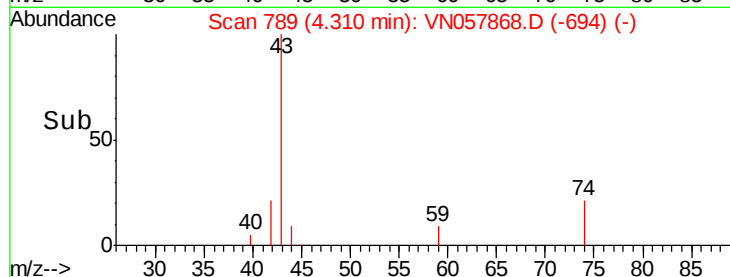
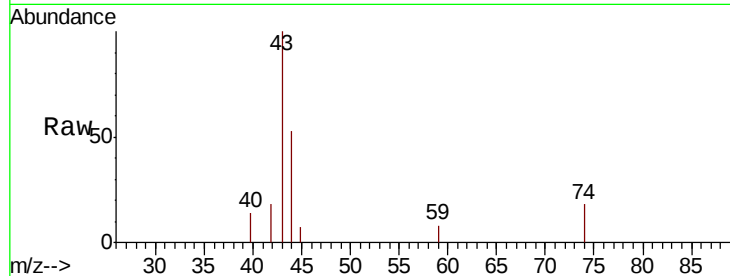




#18
Methyl Acetate
Concen: 1.365 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

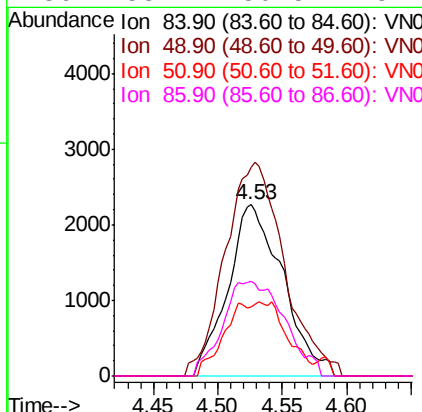
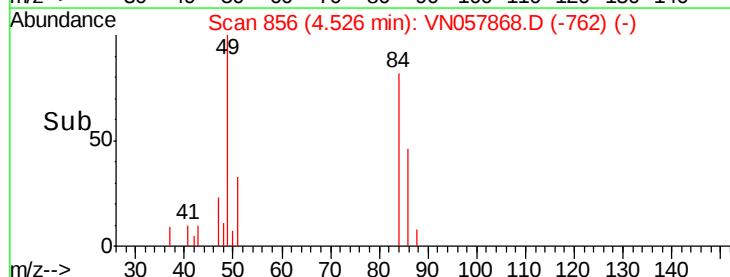
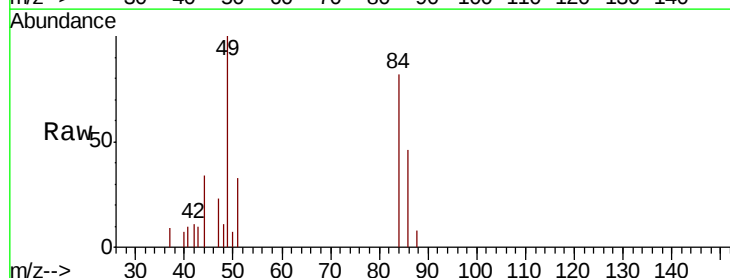
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C4-(0)

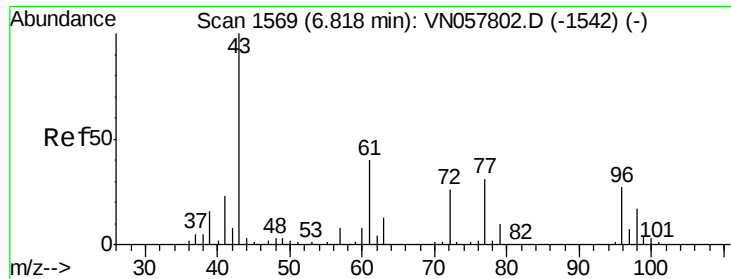
Tgt Ion: 43 Resp: 7107
Ion Ratio Lower Upper
43 100
74 15.6 17.9 26.9#



#20
Methylene Chloride
Concen: 0.590 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

Tgt Ion: 84 Resp: 6715
Ion Ratio Lower Upper
84 100
49 114.3 104.8 157.2
51 40.6 33.0 49.4
86 55.4 50.5 75.7

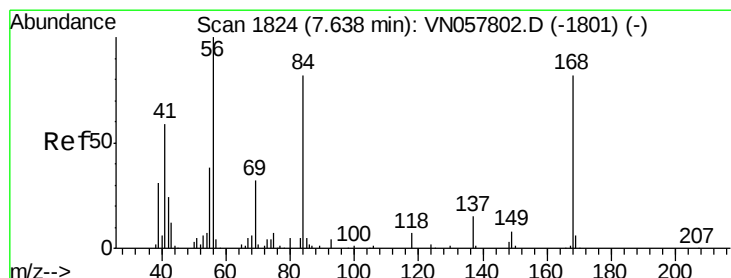
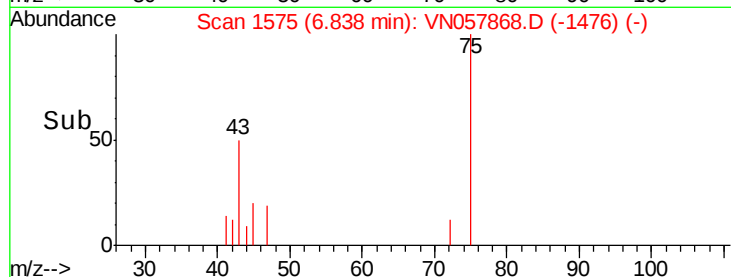
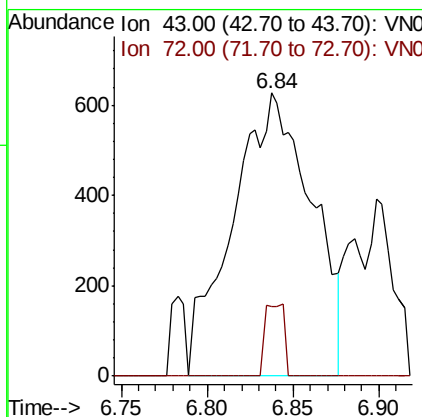
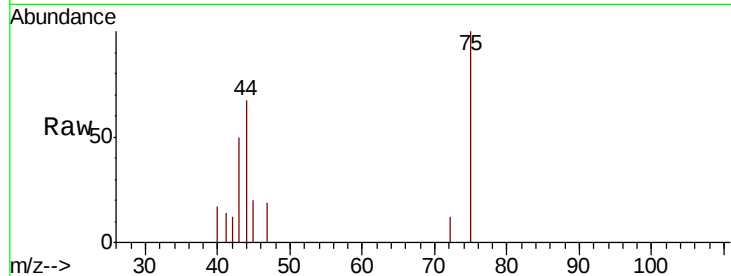




#25
2-Butanone
Concen: 0.711 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

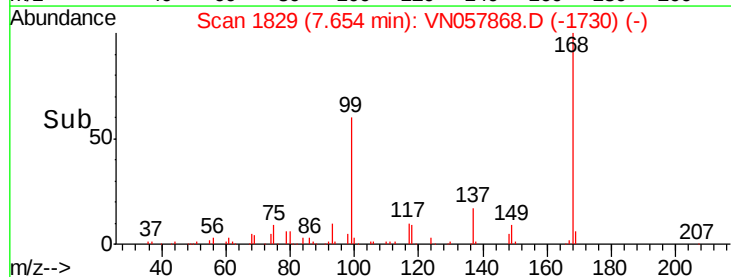
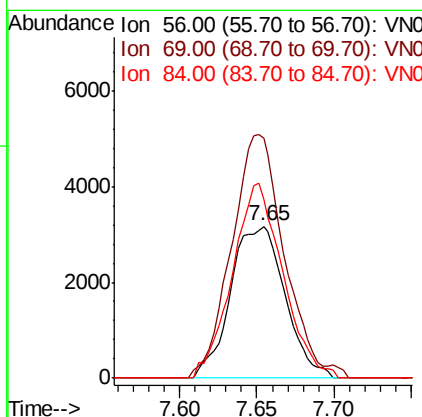
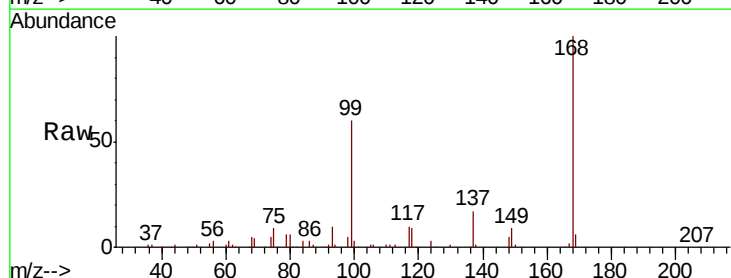
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ClientSampleId :
PAR-11-C4-(0)

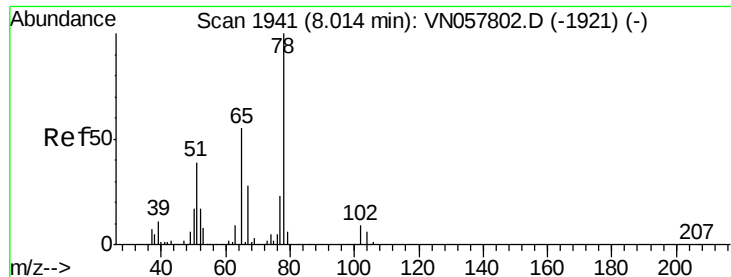
Tgt Ion: 43 Resp: 2009
Ion Ratio Lower Upper
43 100
72 24.4 20.6 30.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

Tgt Ion: 56 Resp: 7754
Ion Ratio Lower Upper
56 100
69 158.3 25.9 38.9#
84 117.8 65.6 98.4#

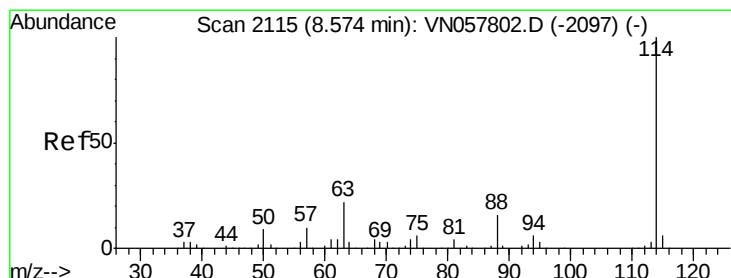
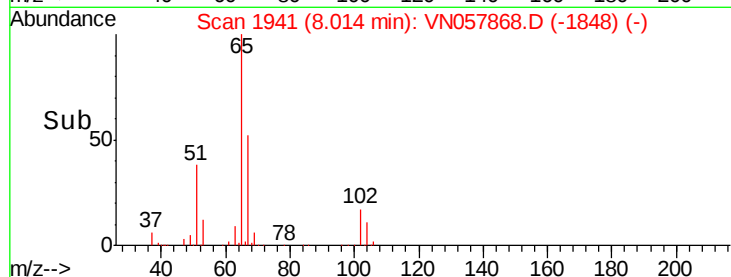
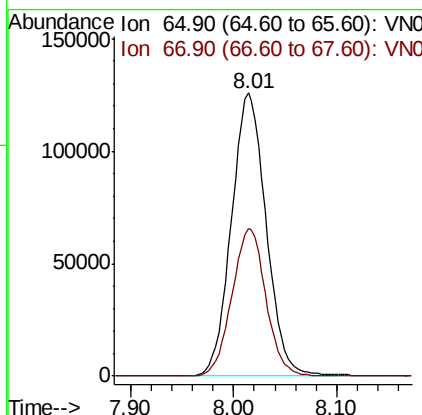
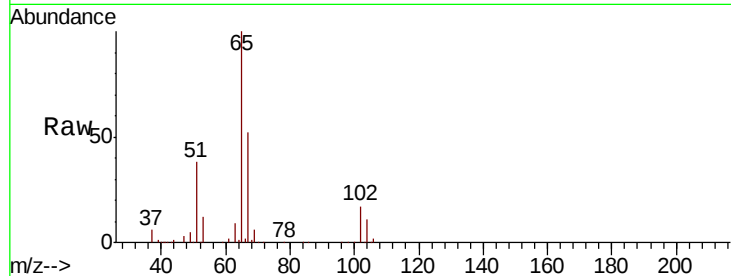




#33
 1,2-Dichloroethane-d4
 Concen: 49.417 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057868.D
 Acq: 10 Sep 2019 17:24

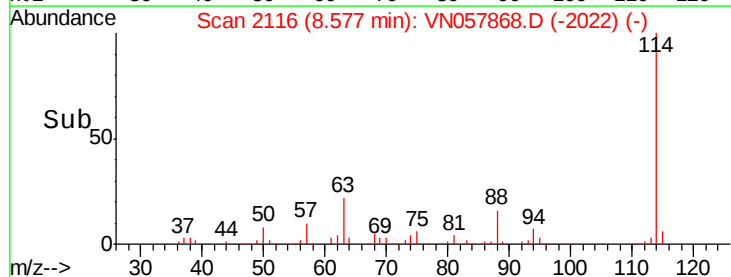
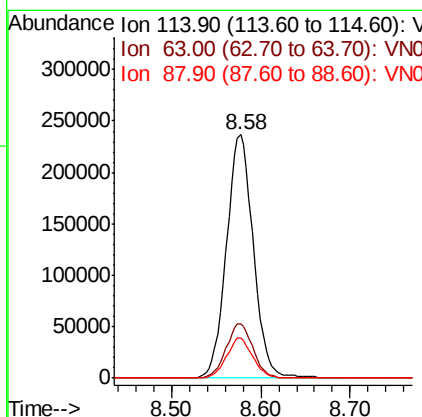
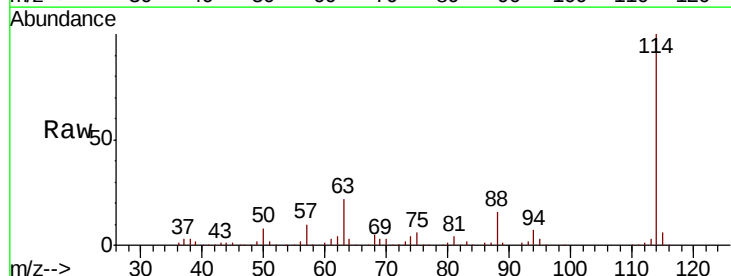
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 PAR-11-C4-(0)

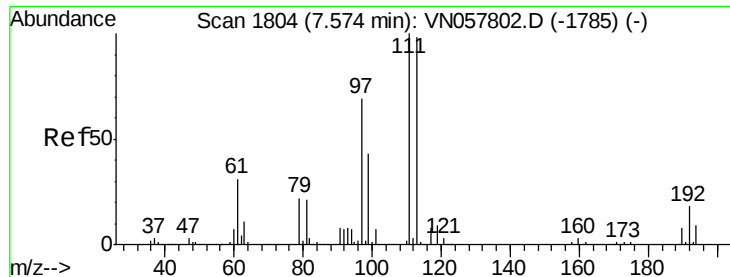
Tgt Ion: 65 Resp: 294419
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057868.D
 Acq: 10 Sep 2019 17:24

Tgt Ion: 114 Resp: 493597
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 16.3 0.0 31.4

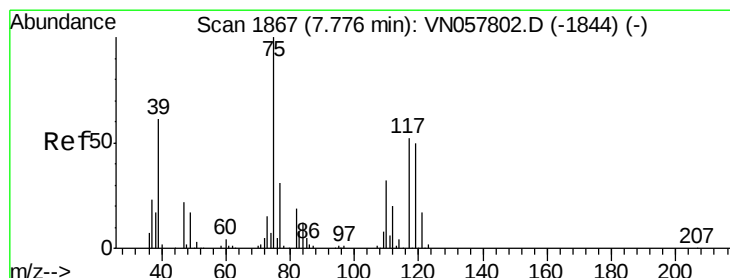
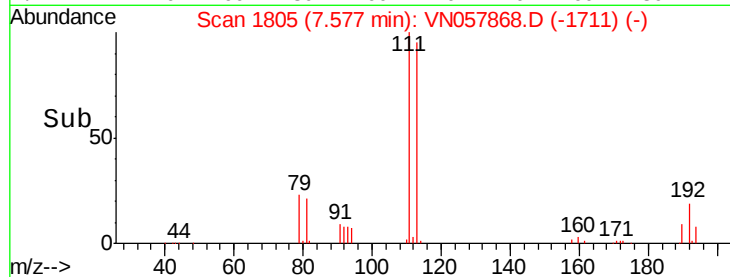
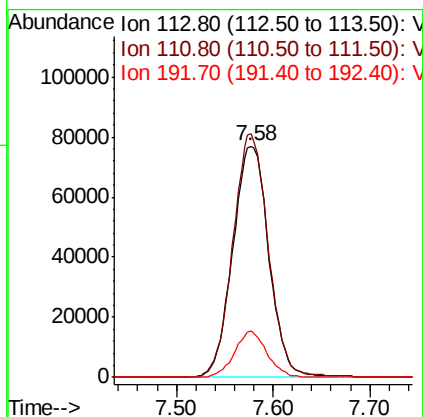
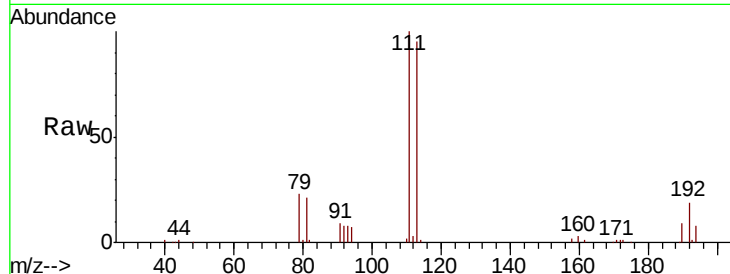




#35
 Dibromofluoromethane
 Concen: 43.888 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057868.D
 Acq: 10 Sep 2019 17:24

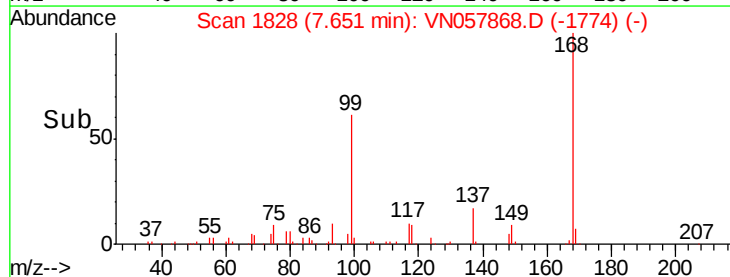
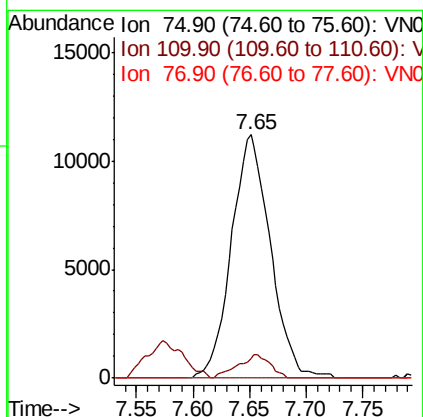
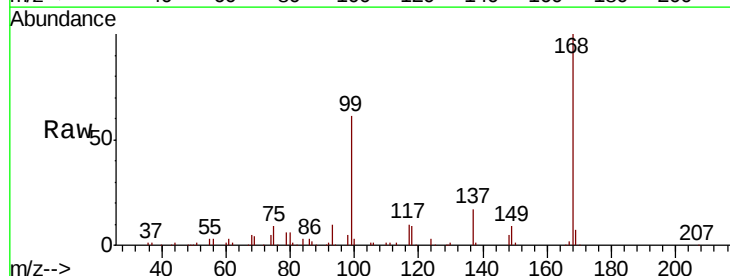
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C4-(0)

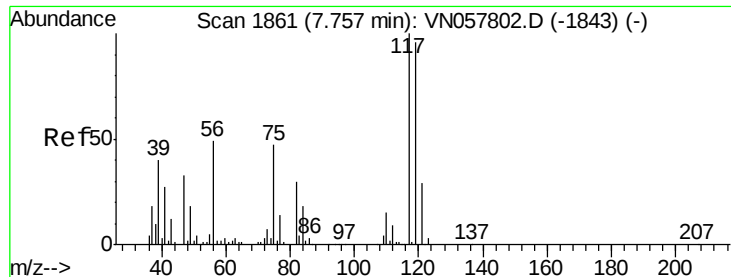
Tgt Ion: 113 Resp: 199941
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.3 121.9
 192 17.9 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.692 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057868.D
 Acq: 10 Sep 2019 17:24

Tgt Ion: 75 Resp: 26861
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.727 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(0)

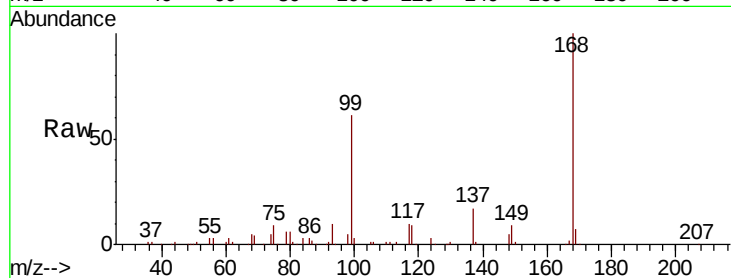
Tgt Ion:117 Resp: 29933

Ion Ratio Lower Upper

117 100

119 4.7 76.9 115.3#

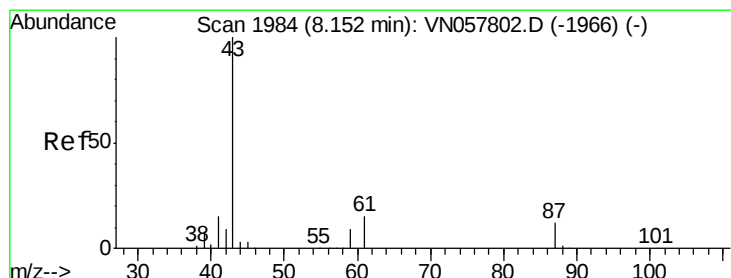
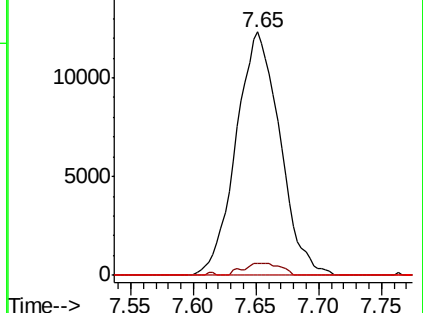
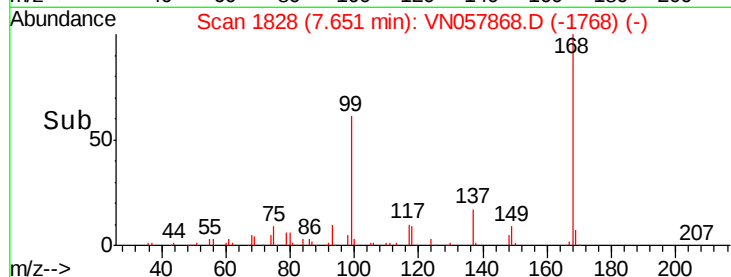
121 0.0 23.4 35.2#



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: 7.537 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

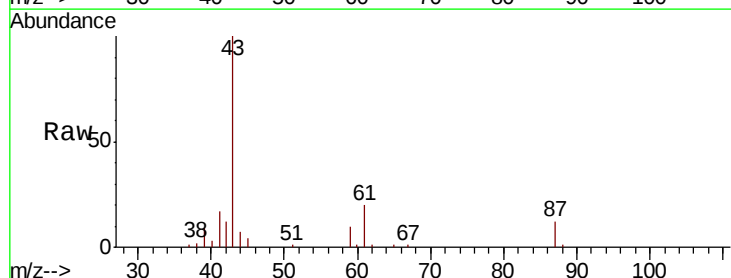
Tgt Ion: 43 Resp: 74963

Ion Ratio Lower Upper

43 100

61 17.7 20.1 30.1#

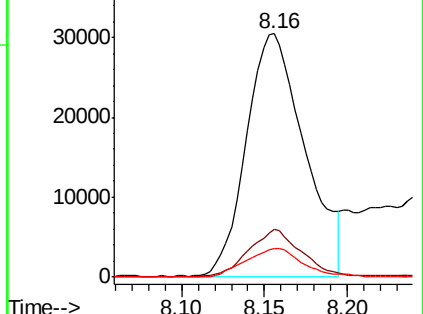
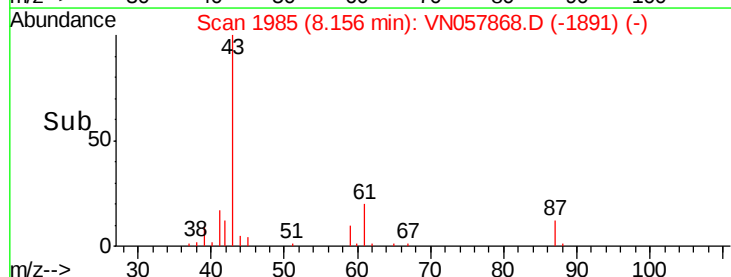
87 11.5 9.5 14.3

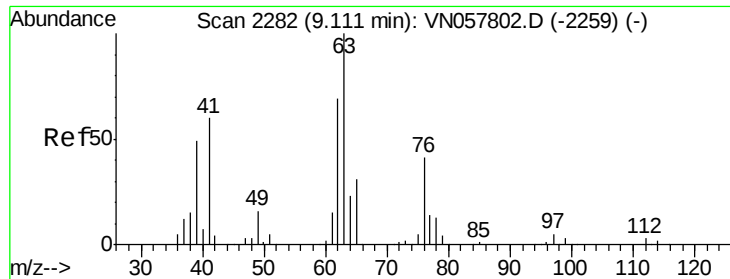


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

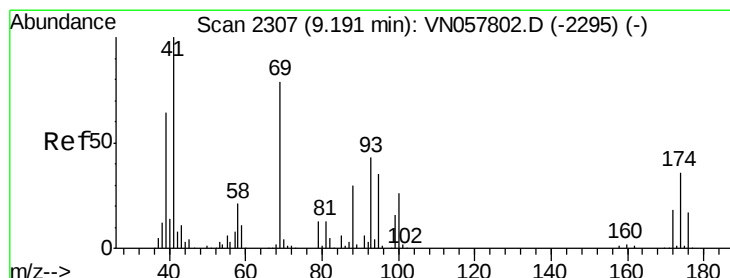
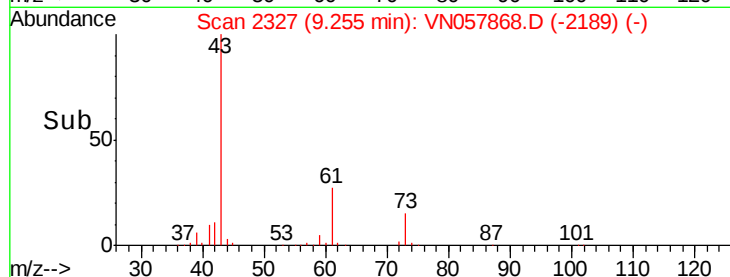
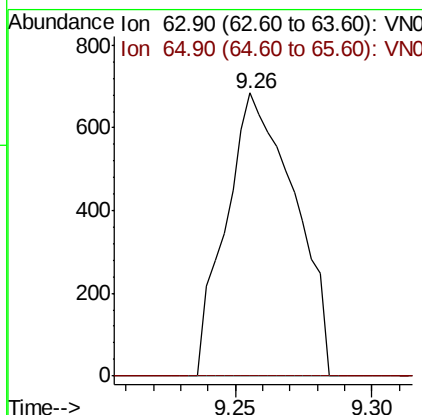
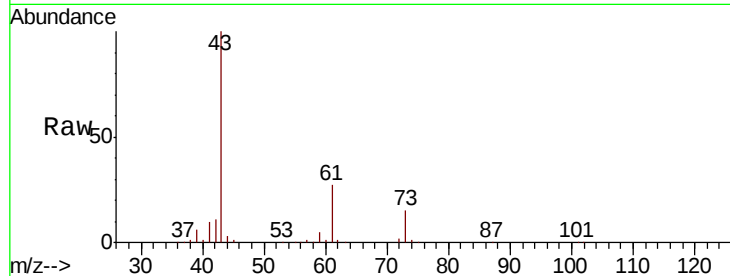




#45
 1,2-Dichloropropane
 Concen: 0.238 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.14 min
 Lab File: VN057868.D
 Acq: 10 Sep 2019 17:24

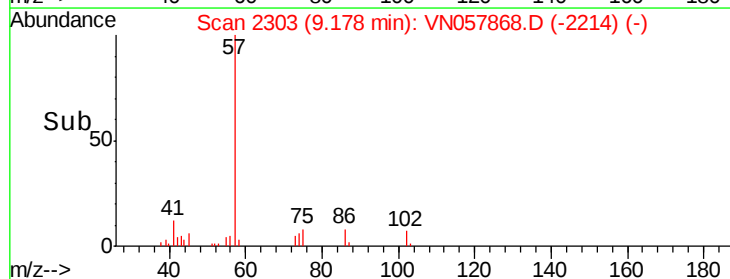
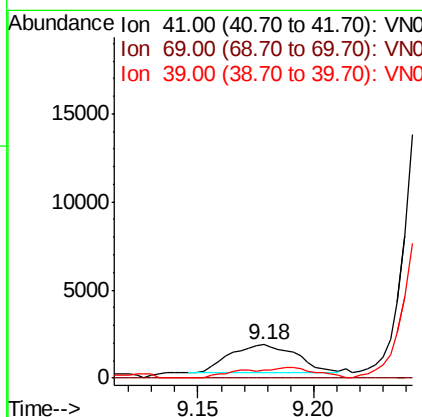
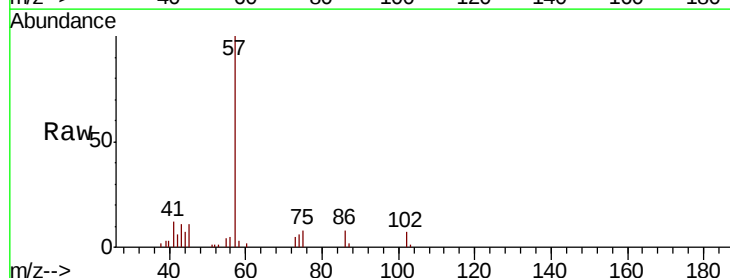
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C4-(0)

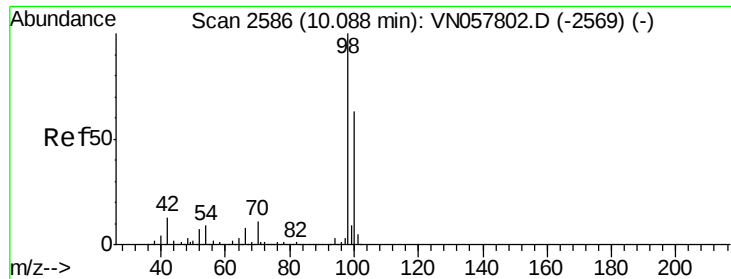
Tgt Ion: 63 Resp: 1195
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.645 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.01 min
 Lab File: VN057868.D
 Acq: 10 Sep 2019 17:24

Tgt Ion: 41 Resp: 3252
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 46.091 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

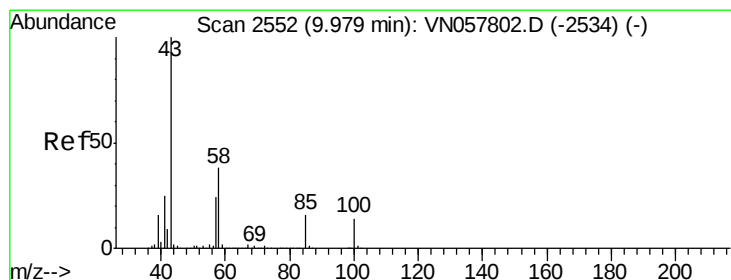
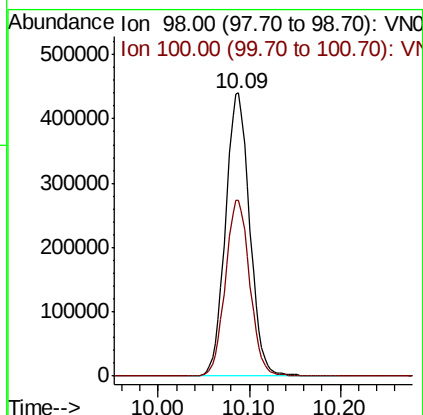
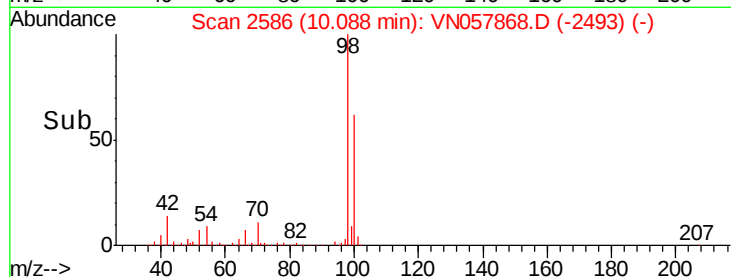
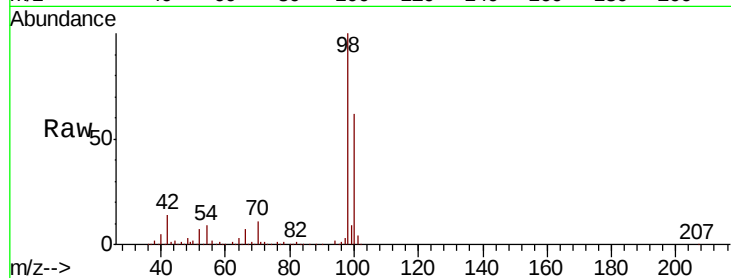
PAR-11-C4-(0)

Tgt Ion: 98 Resp: 815236

Ion Ratio Lower Upper

98 100

100 62.6 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 0.860 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057868.D

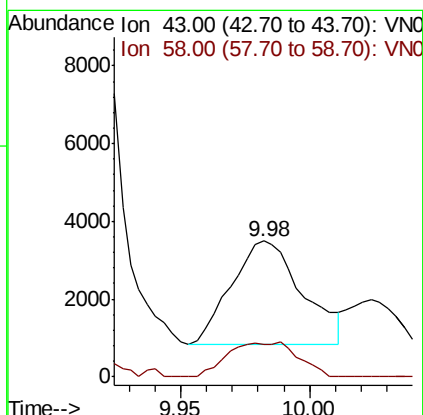
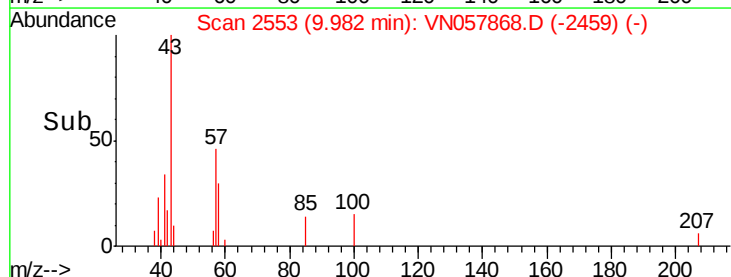
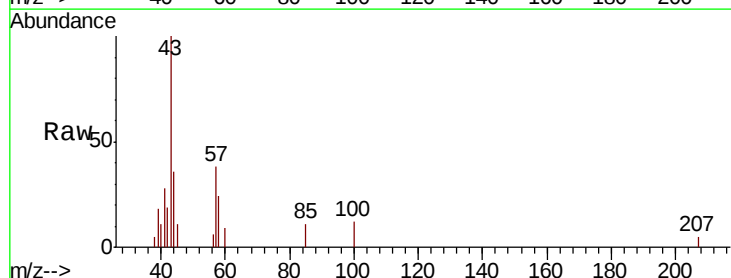
Acq: 10 Sep 2019 17:24

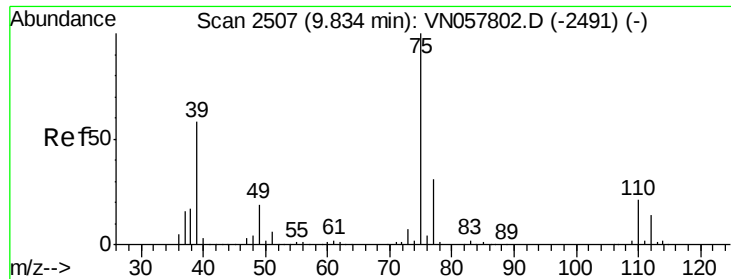
Tgt Ion: 43 Resp: 5064

Ion Ratio Lower Upper

43 100

58 33.0 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 4.926 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(0)

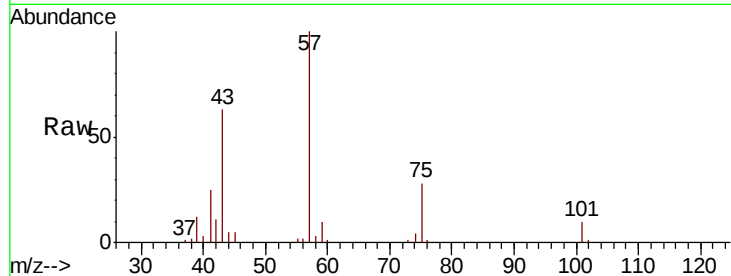
Tgt Ion: 75 Resp: 34657

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

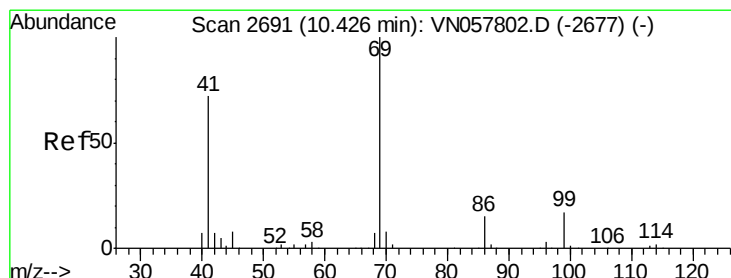
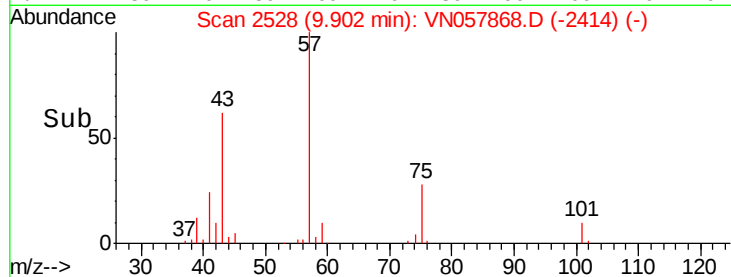
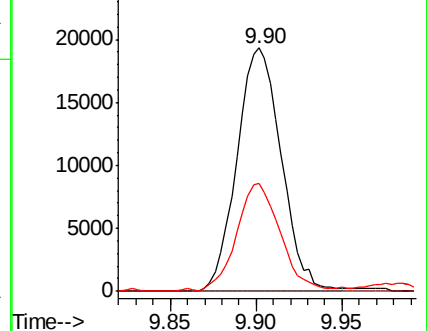
39 43.5 46.2 69.4#



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



#56

Ethyl methacrylate

Concen: 0.262 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

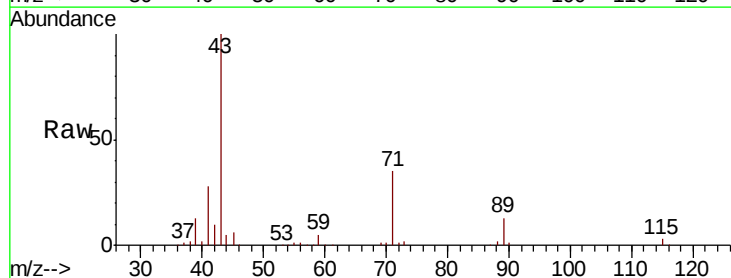
Tgt Ion: 69 Resp: 1811

Ion Ratio Lower Upper

69 100

41 4838.7 56.7 85.1#

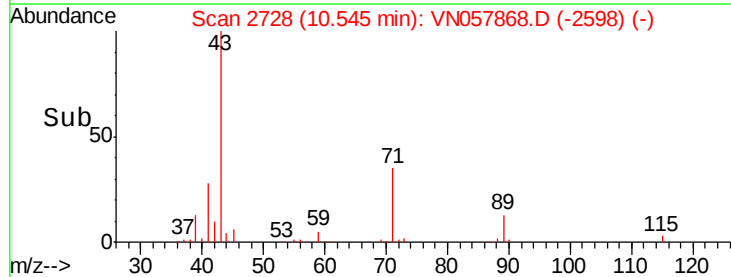
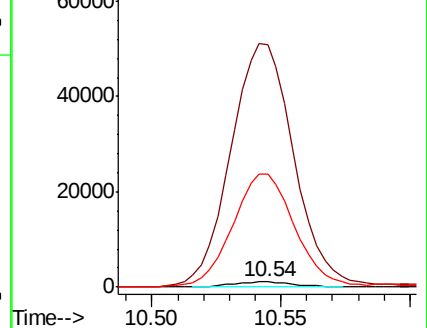
39 2206.7 36.3 54.5#

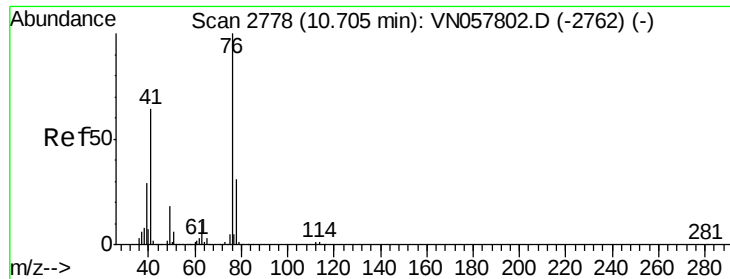


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.656 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

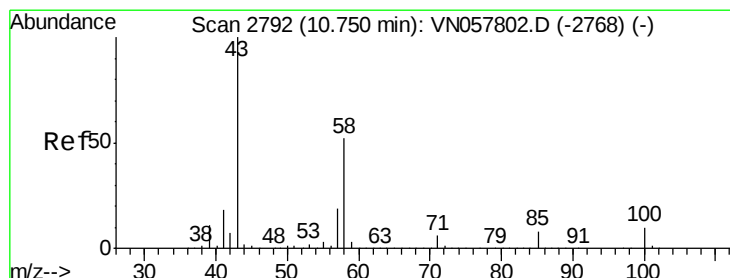
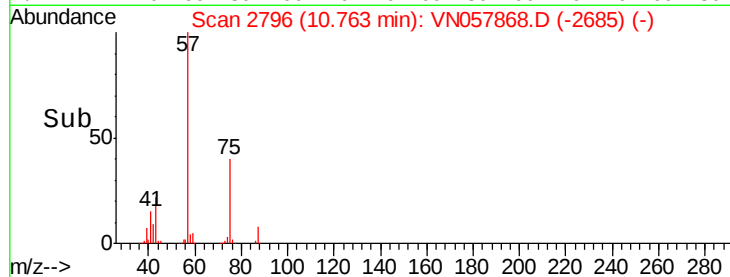
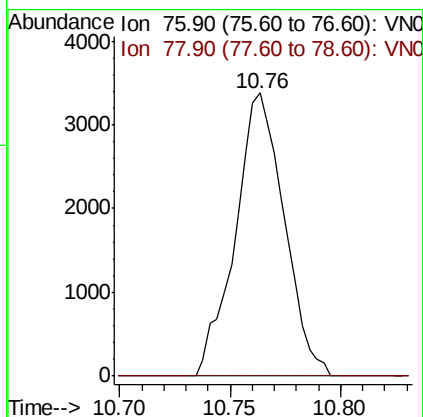
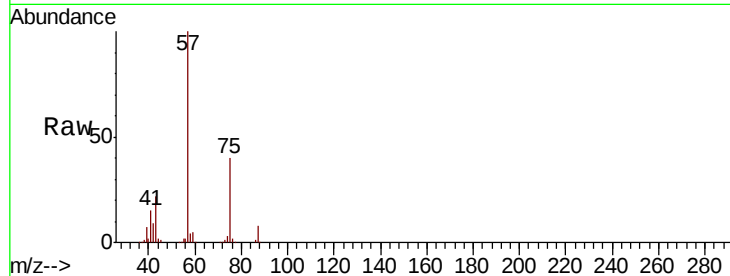
PAR-11-C4-(0)

Tgt Ion: 76 Resp: 5198

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 16.928 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057868.D

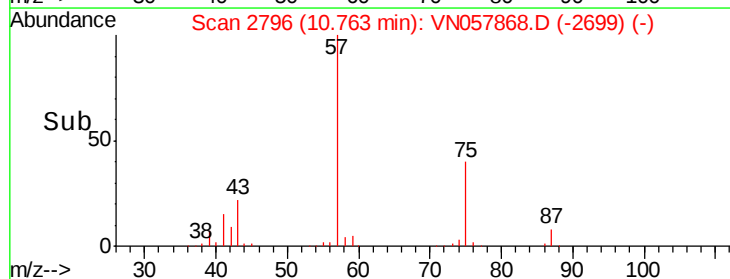
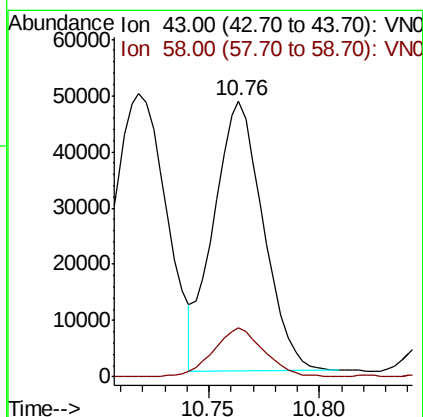
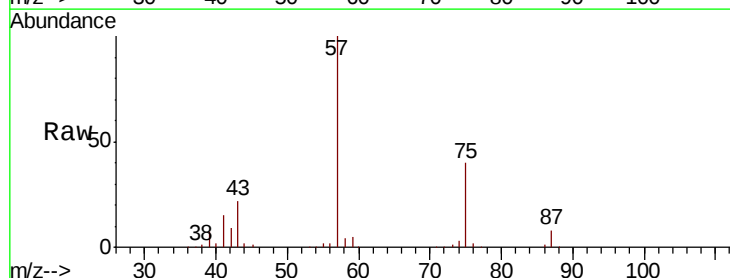
Acq: 10 Sep 2019 17:24

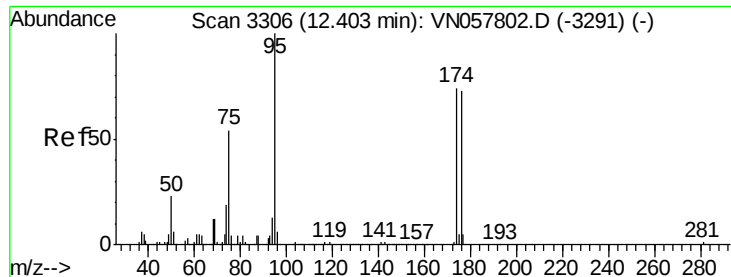
Tgt Ion: 43 Resp: 74680

Ion Ratio Lower Upper

43 100

58 18.8 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 38.980 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(0)

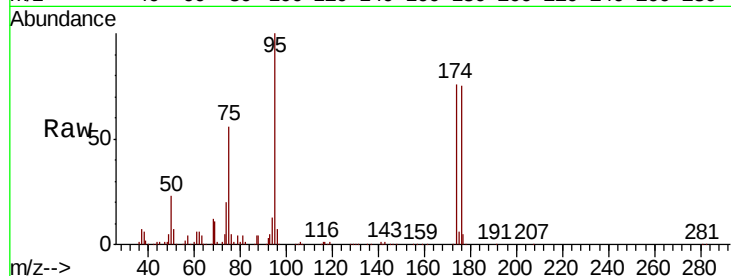
Tgt Ion: 95 Resp: 262746

Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.2

176 74.1 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

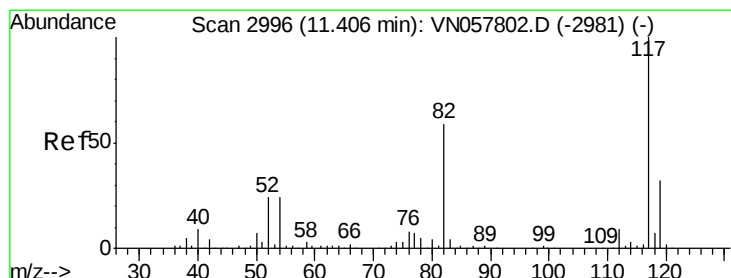
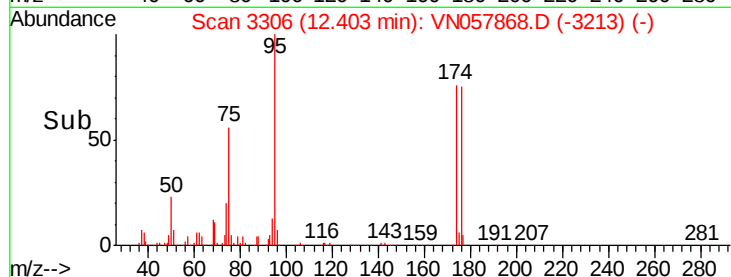
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

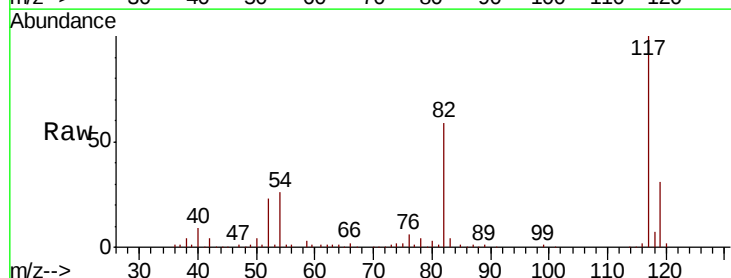
Tgt Ion: 117 Resp: 454448

Ion Ratio Lower Upper

117 100

82 58.7 47.2 70.8

119 31.0 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

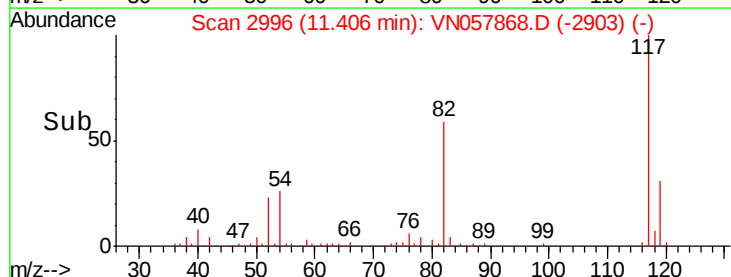
300000

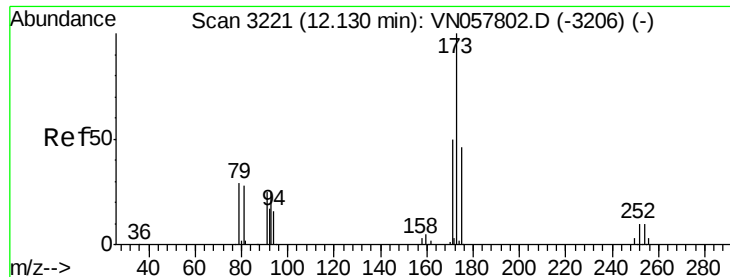
200000

100000

0

Time-->





#71

Bromoform

Concen: 0.308 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(0)

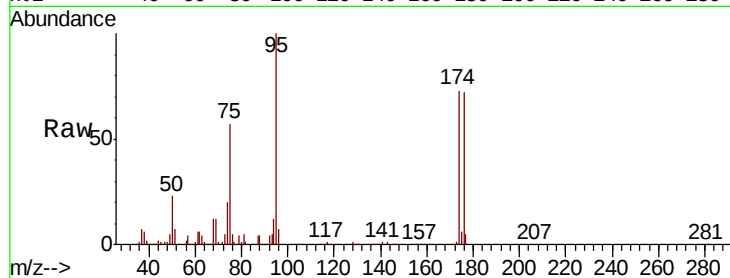
Tgt Ion:173 Resp: 793

Ion Ratio Lower Upper

173 100

175 1639.3 23.5 70.6#

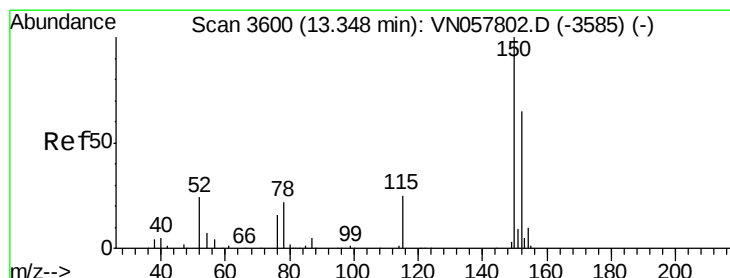
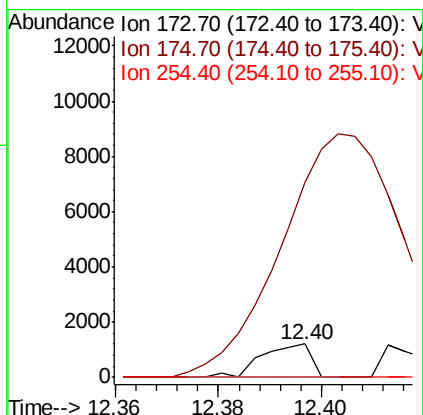
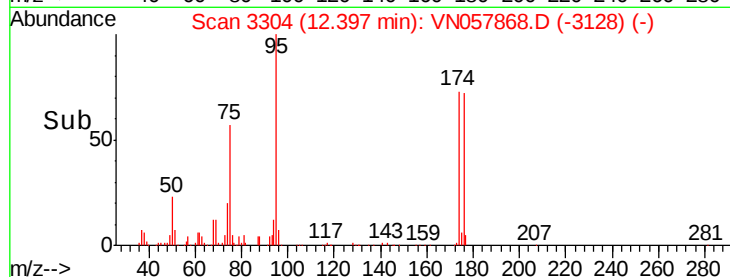
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057868.D

Acq: 10 Sep 2019 17:24

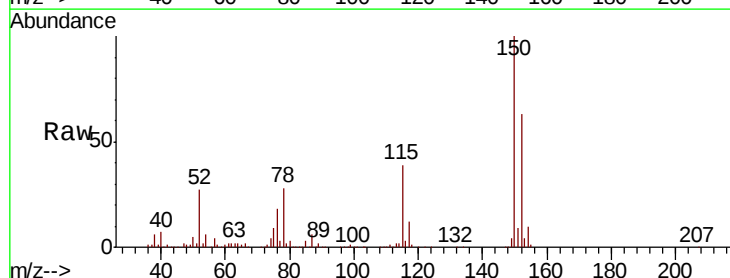
Tgt Ion:152 Resp: 228927

Ion Ratio Lower Upper

152 100

115 61.6 30.3 91.0

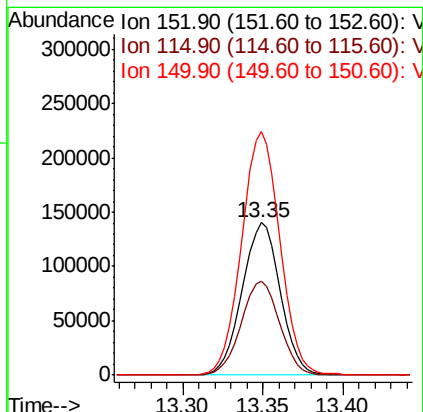
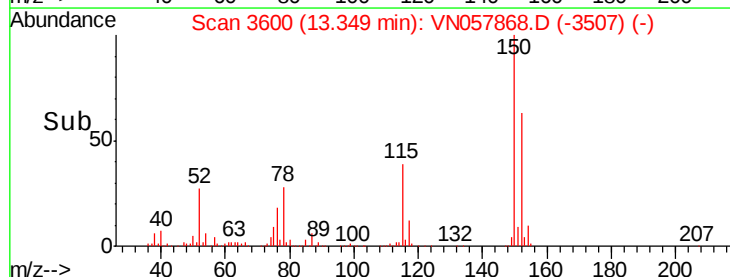
150 159.5 0.0 352.4

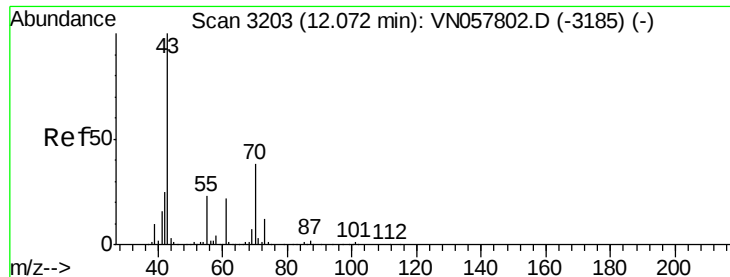


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

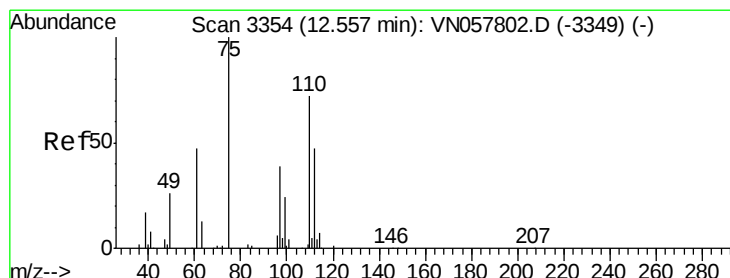
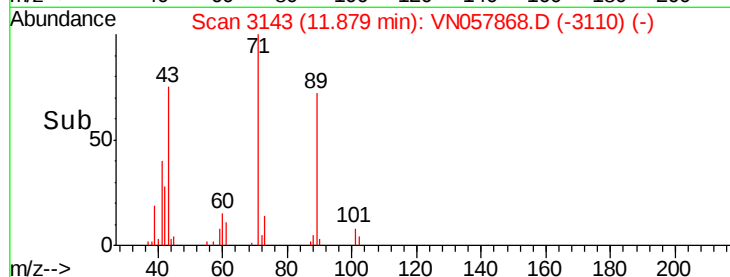
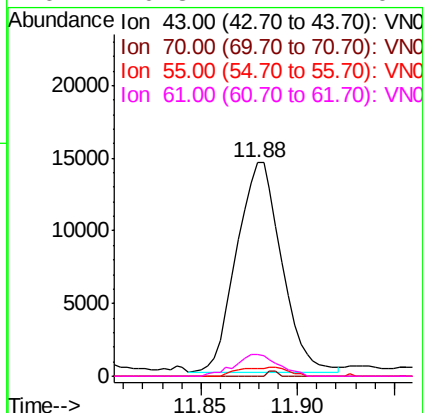
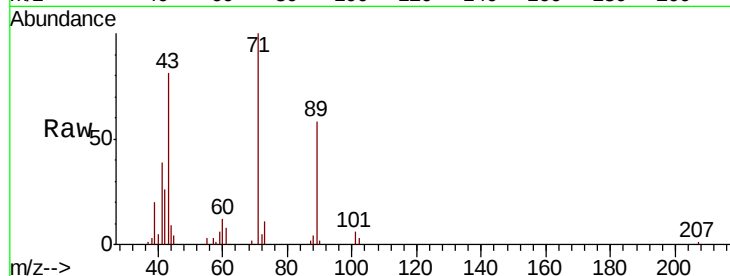




#74
N-ethyl acetate
Concen: 3.007 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

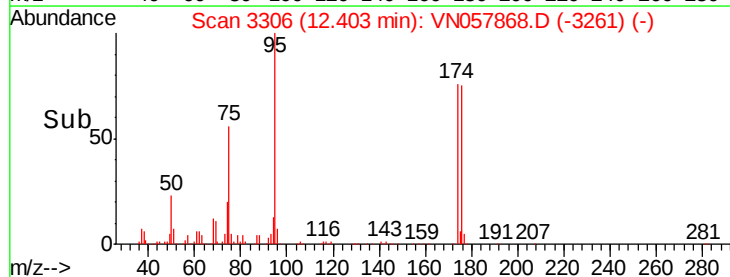
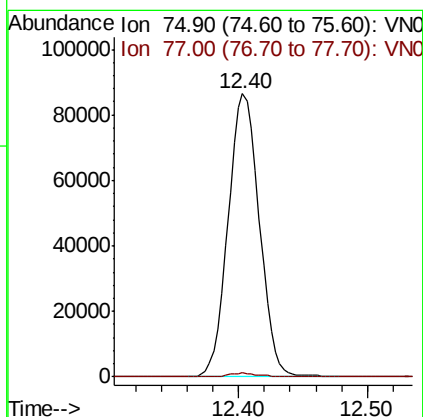
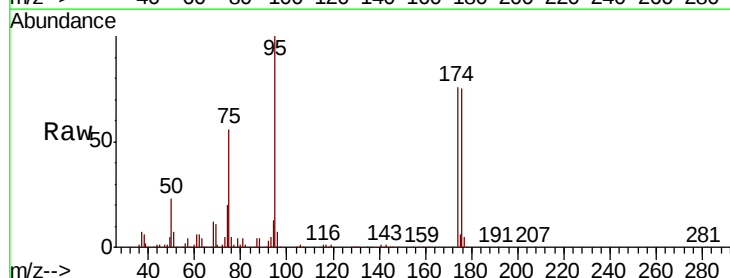
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C4-(0)

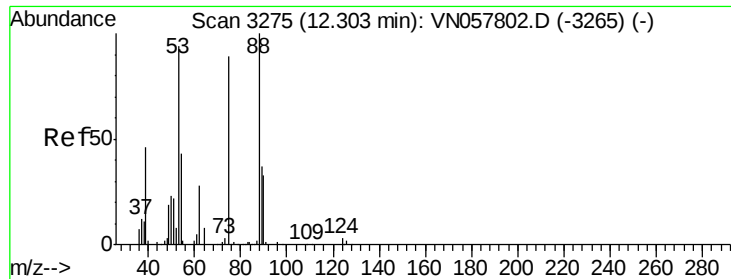
Tgt Ion: 43 Resp: 23249
Ion Ratio Lower Upper
43 100
70 0.6 30.6 45.8#
55 2.2 18.6 27.8#
61 10.3 17.4 26.2#



#76
1,2,3-Trichloropropane
Concen: 28.070 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

Tgt Ion: 75 Resp: 145369
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

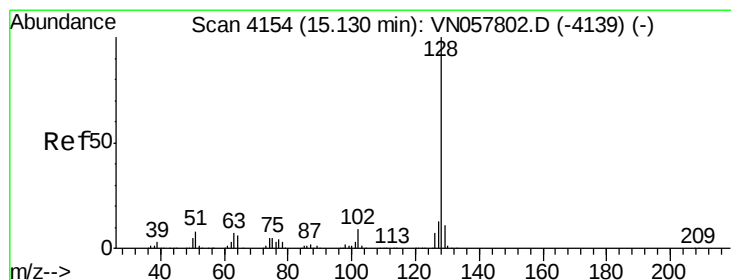
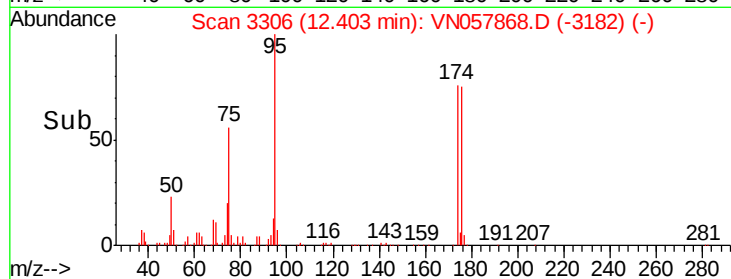
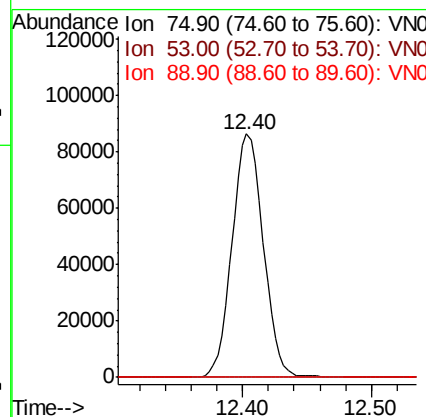
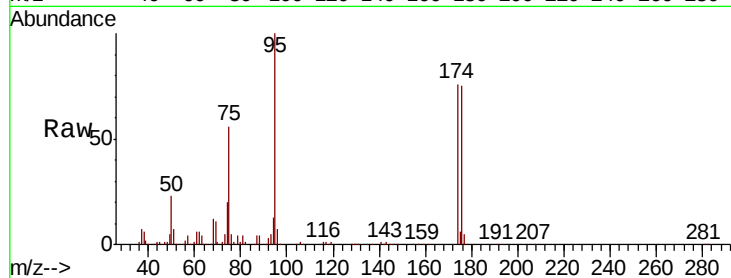




#81
trans-1,4-Dichloro-2-butene
Concen: 98.780 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

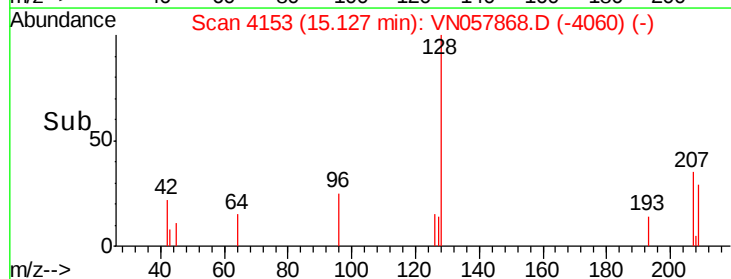
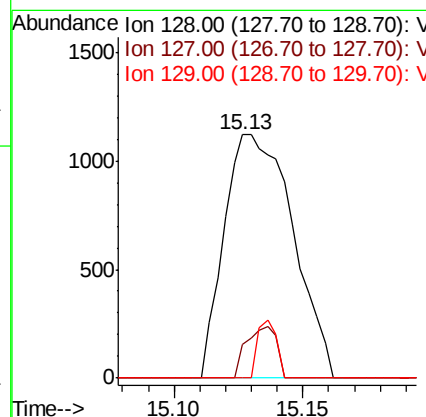
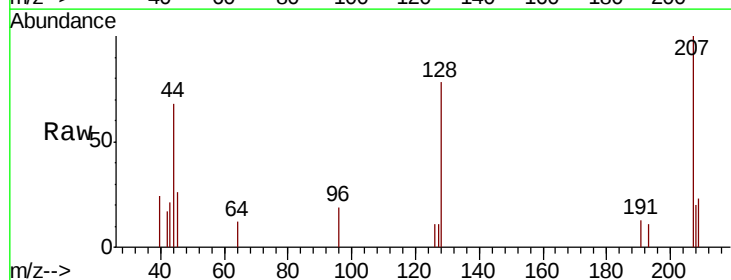
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C4-(0)

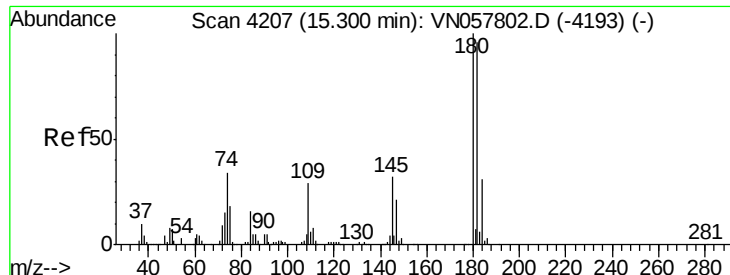
Tgt Ion: 75 Resp: 145369
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#



#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN057868.D
Acq: 10 Sep 2019 17:24

Tgt Ion: 128 Resp: 2073
Ion Ratio Lower Upper
128 100
127 9.2 10.3 15.5#
129 6.5 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.068 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN057868.D
 Acq: 10 Sep 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C4-(0)

Tgt Ion:180 Resp: 328
 Ion Ratio Lower Upper
 180 100
 182 182.3 48.3 144.8#
 145 0.0 16.3 48.8#

