

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057880.D
 Acq On : 10 Sep 2019 21:49
 Operator : JC/SP
 Sample : K4623-36
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D4-(4)

Quant Time: Sep 11 03:58:27 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	284117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	480885	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	444331	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	223874	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	322597	56.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.12%	
35) Dibromofluoromethane	7.58	113	216864	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
50) Toluene-d8	10.09	98	884793	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
62) 4-Bromofluorobenzene	12.40	95	285431	43.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.92%	

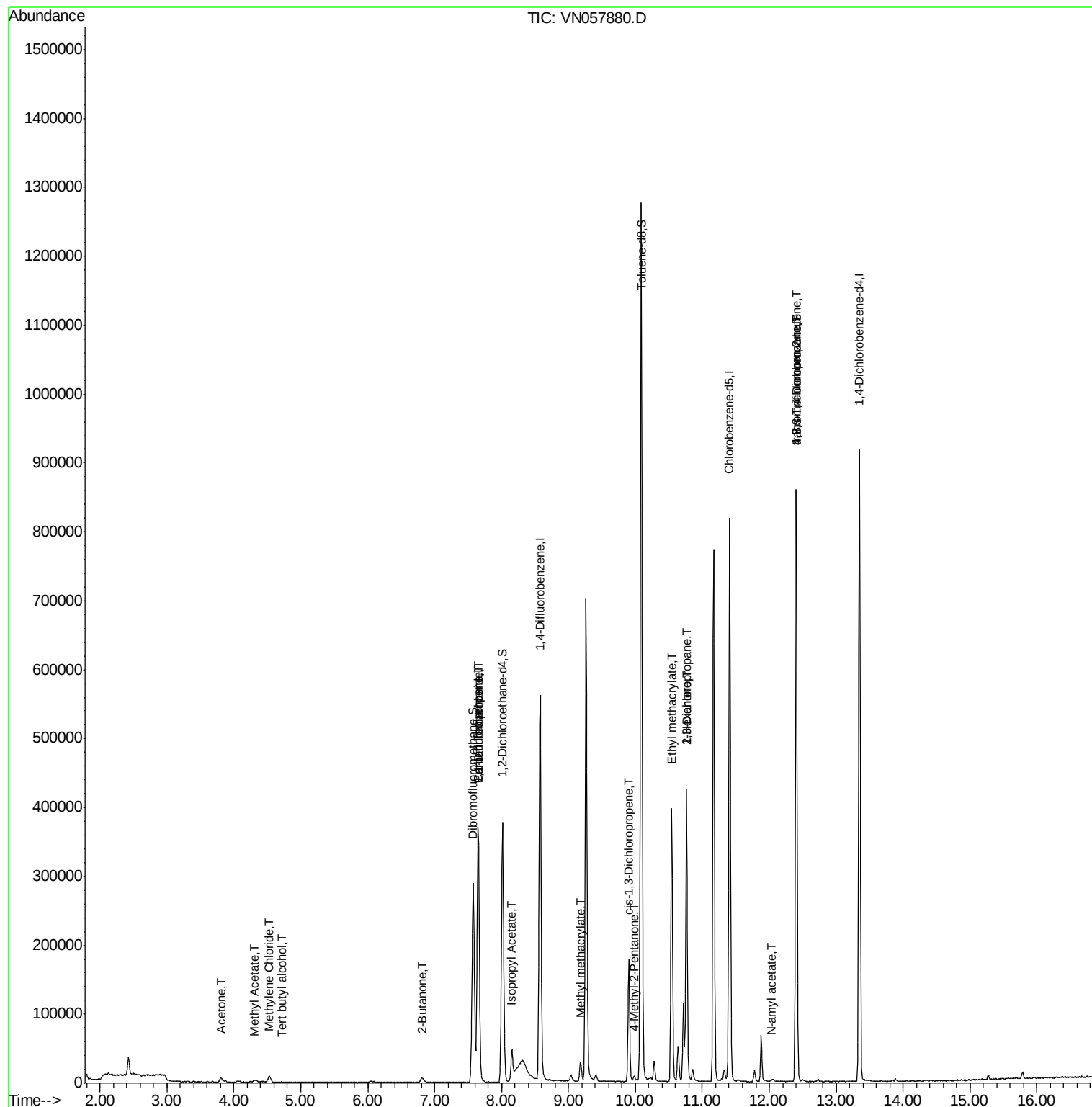
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.60	94	65	Below Cal	#	2
11) Tert butyl alcohol	4.73	59	270	0.388	ug/l #	72
16) Acetone	3.80	43	10113	5.361	ug/l	99
18) Methyl Acetate	4.31	43	6959	1.384	ug/l #	80
20) Methylene Chloride	4.53	84	6274	0.529	ug/l	96
25) 2-Butanone	6.81	43	787	0.288	ug/l #	49
31) Cyclohexane	7.65	56	7661	Below Cal	#	24
36) 1,1-Dichloropropene	7.65	75	24711	4.431	ug/l #	52
38) Carbon Tetrachloride	7.65	117	28928	5.681	ug/l #	15
43) Isopropyl Acetate	8.15	43	55660	5.744	ug/l #	90
48) Methyl methacrylate	9.18	41	5088	1.035	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	6405	1.117	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	30532	4.454	ug/l #	67
56) Ethyl methacrylate	10.54	69	1693	0.251	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4658	0.603	ug/l #	43
59) 2-Hexanone	10.76	43	61303	14.263	ug/l #	55
74) N-amyl acetate	12.03	43	1618	0.214	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	158671	31.331	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158671	110.253	ug/l #	6
95) Naphthalene	15.14	128	302	Below Cal	#	69

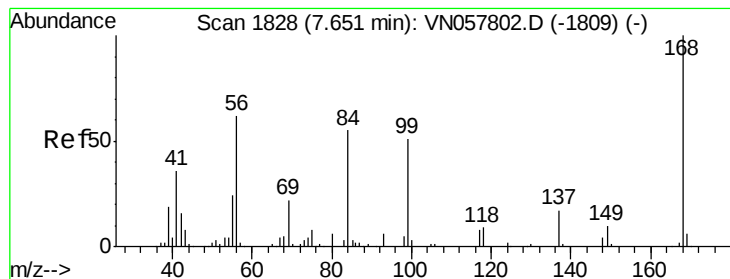
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

Instrument :

MSVOA_N

ClientSampleId :

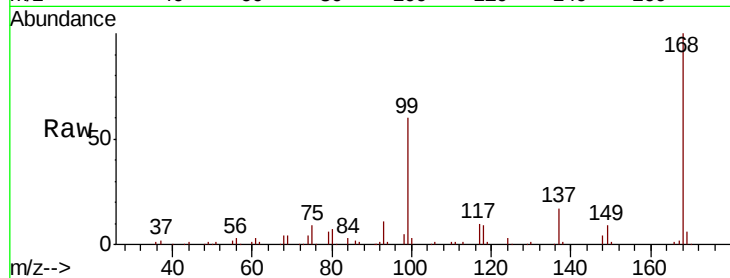
PAR-11-D4-(4)

Tgt Ion:168 Resp: 284117

Ion Ratio Lower Upper

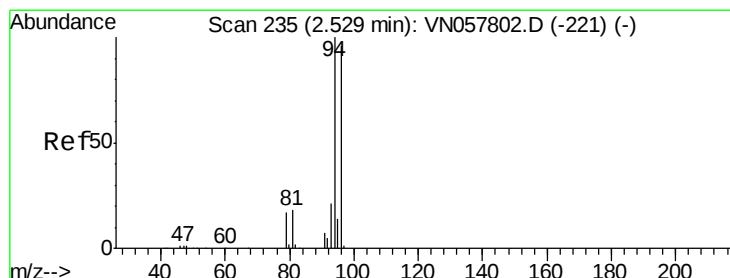
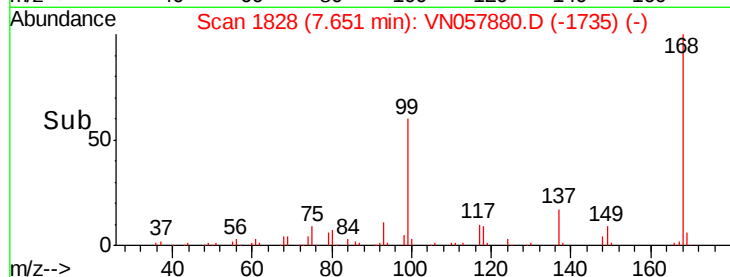
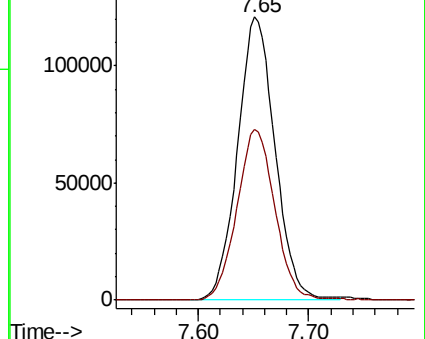
168 100

99 60.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#5

Bromomethane

Concen: Below Cal

RT: 2.60 min Scan# 256

Delta R.T. 0.07 min

Lab File: VN057880.D

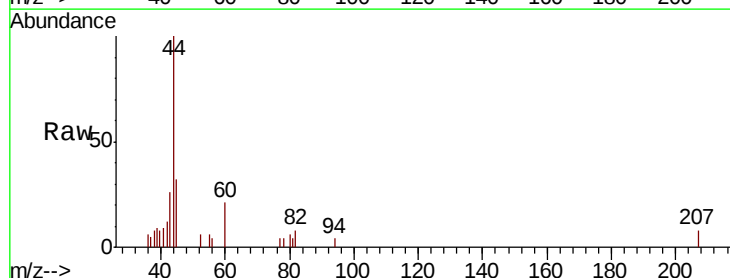
Acq: 10 Sep 2019 21:49

Tgt Ion: 94 Resp: 65

Ion Ratio Lower Upper

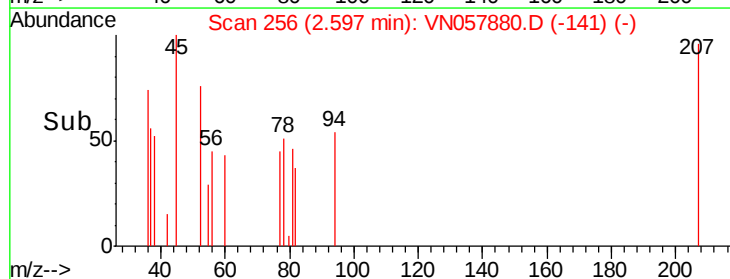
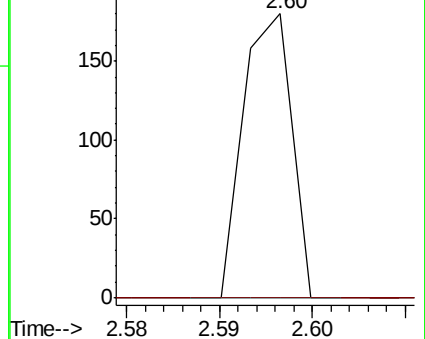
94 100

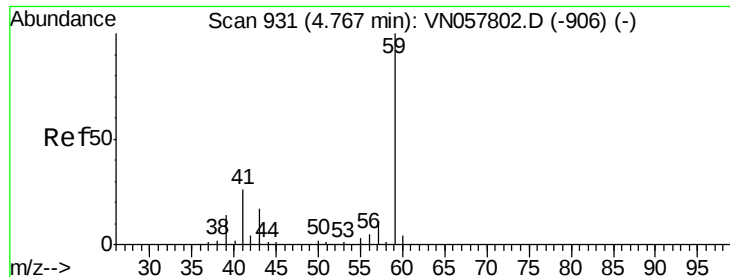
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

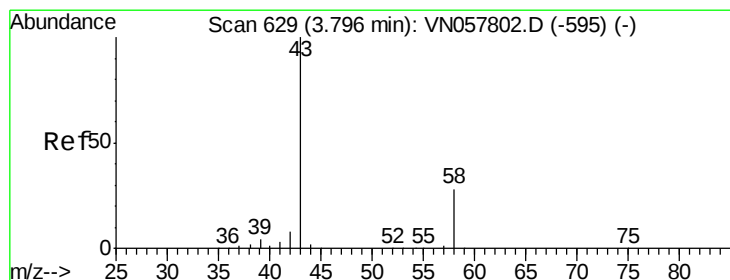
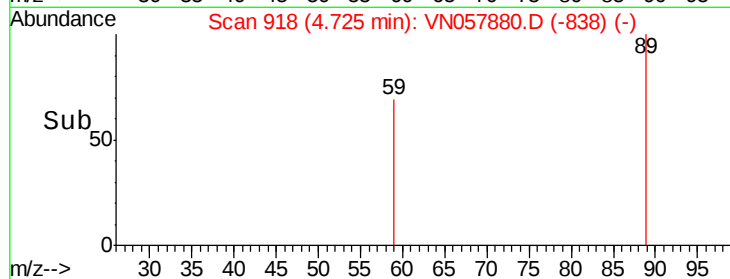
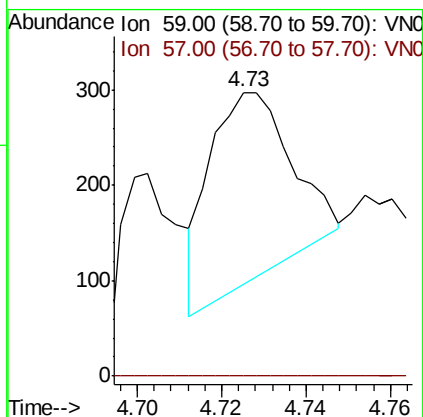
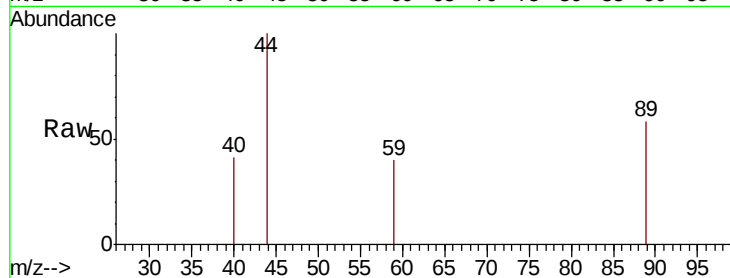




#11
Tert butyl alcohol
Concen: 0.388 ug/l
RT: 4.73 min Scan# 918
Delta R.T. -0.04 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

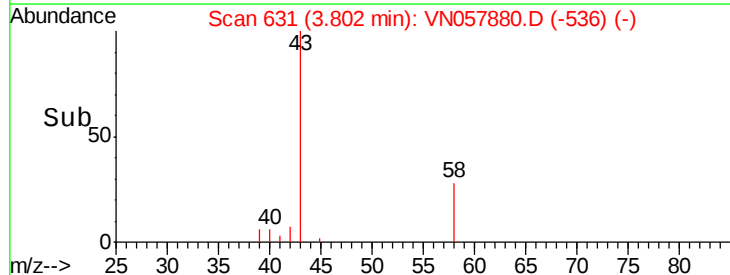
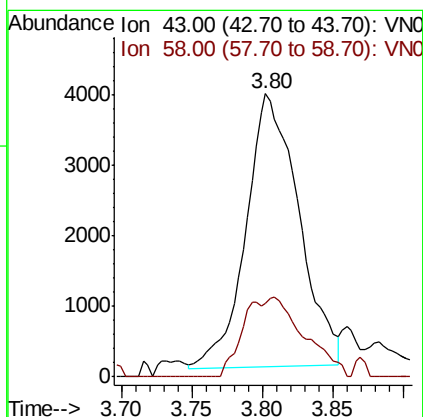
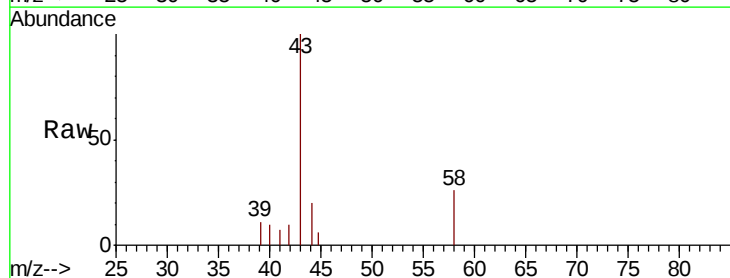
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(4)

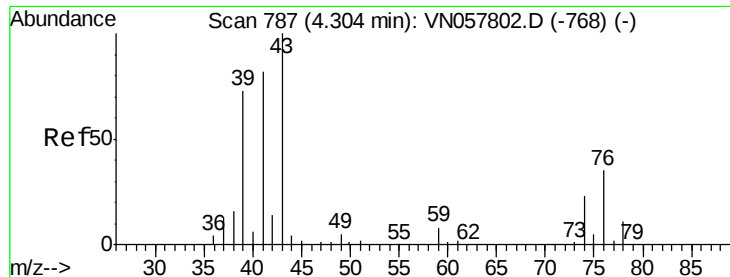
Tgt Ion: 59 Resp: 270
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 5.361 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

Tgt Ion: 43 Resp: 10113
Ion Ratio Lower Upper
43 100
58 27.0 22.2 33.2

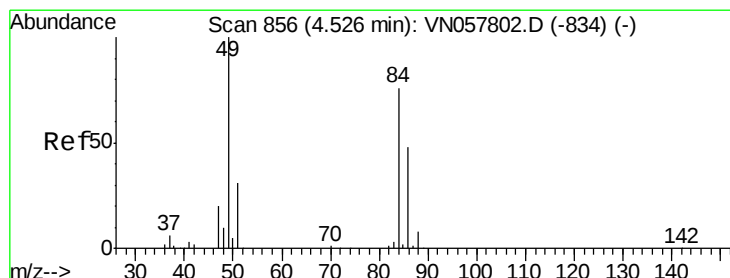
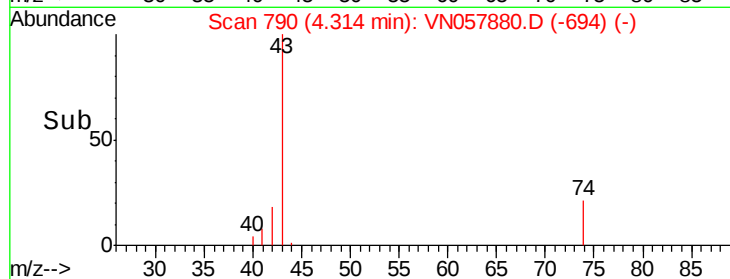
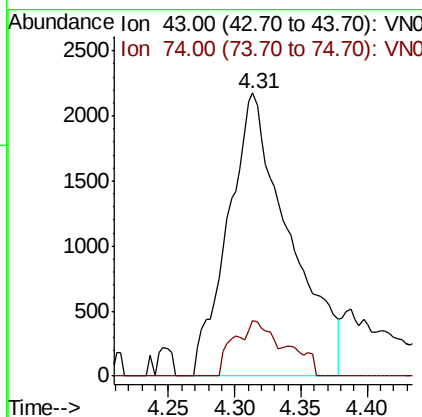
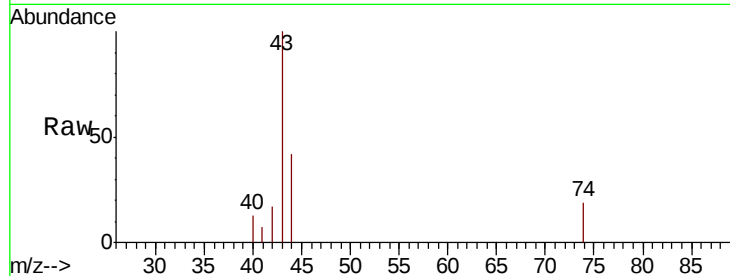




#18
Methyl Acetate
Concen: 1.384 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

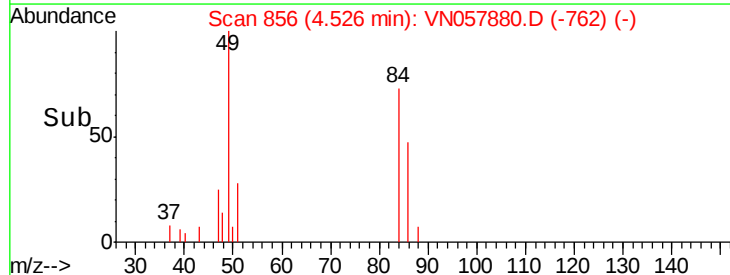
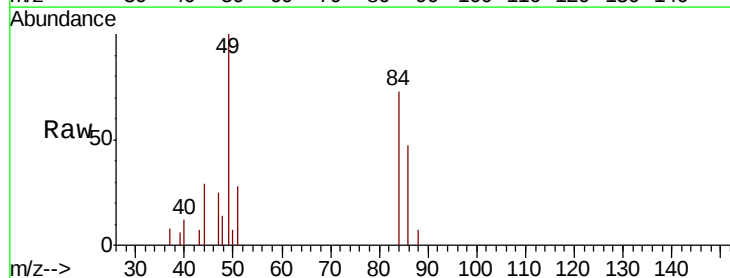
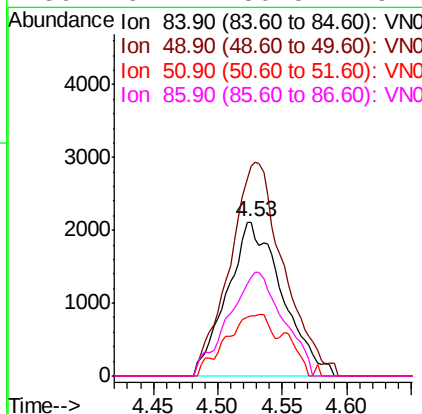
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(4)

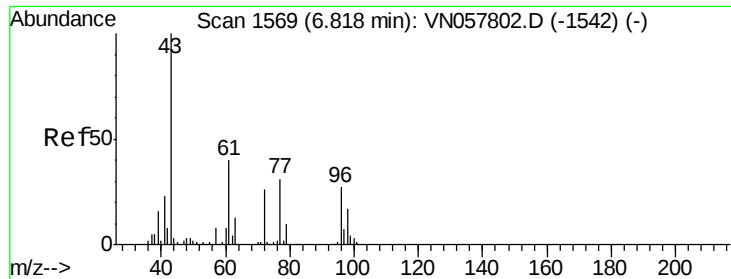
Tgt Ion: 43 Resp: 6959
Ion Ratio Lower Upper
43 100
74 12.7 17.9 26.9#



#20
Methylene Chloride
Concen: 0.529 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

Tgt Ion: 84 Resp: 6274
Ion Ratio Lower Upper
84 100
49 136.3 104.8 157.2
51 38.8 33.0 49.4
86 64.2 50.5 75.7





#25

2-Butanone

Concen: 0.288 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

Instrument :

MSVOA_N

ClientSampleId :

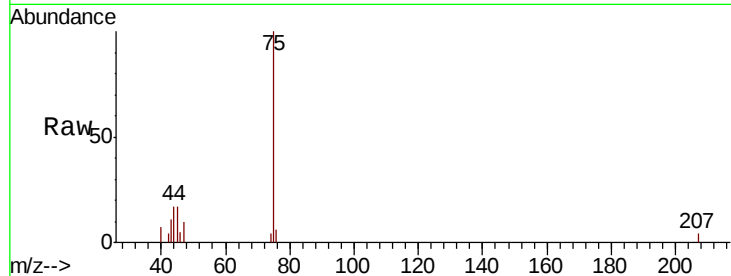
PAR-11-D4-(4)

Tgt Ion: 43 Resp: 787

Ion Ratio Lower Upper

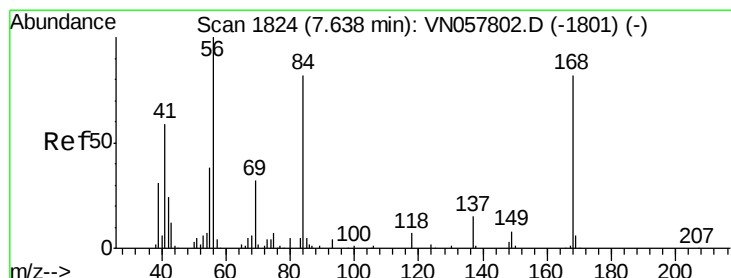
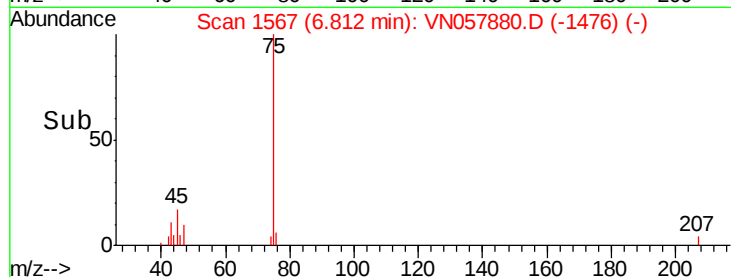
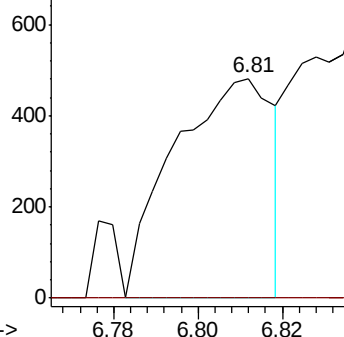
43 100

72 0.0 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

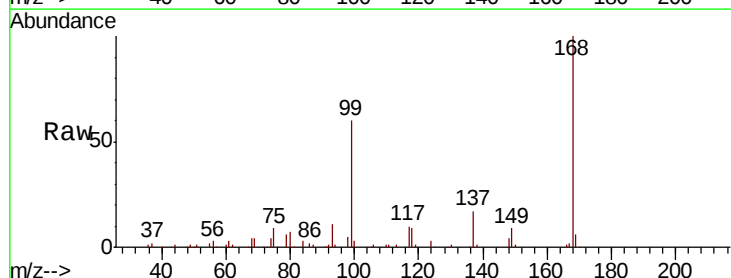
Tgt Ion: 56 Resp: 7661

Ion Ratio Lower Upper

56 100

69 148.6 25.9 38.9#

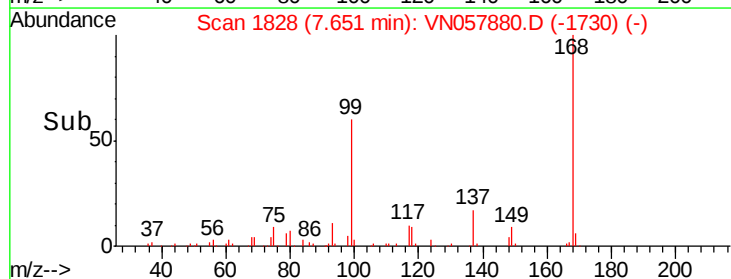
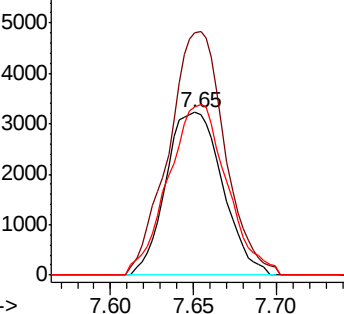
84 103.3 65.6 98.4#

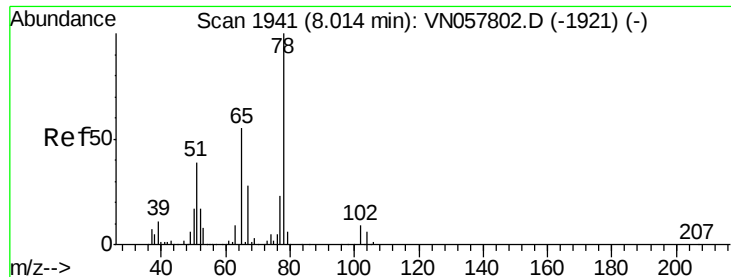


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

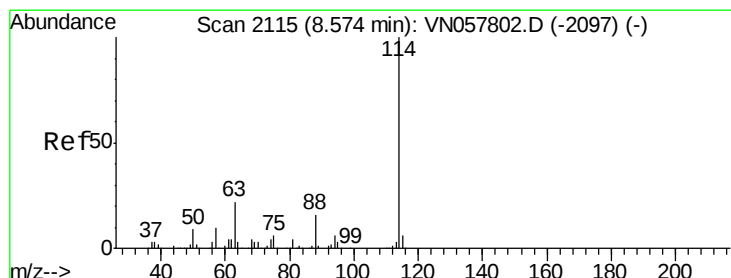
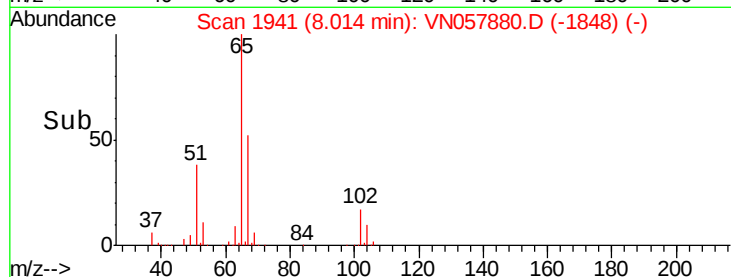
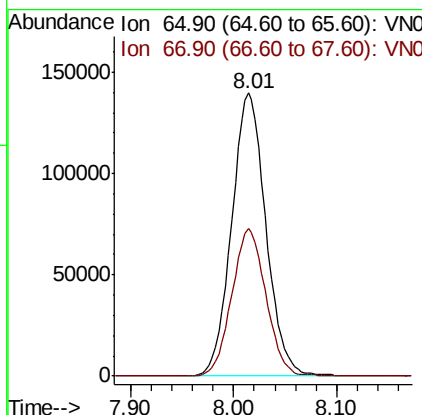
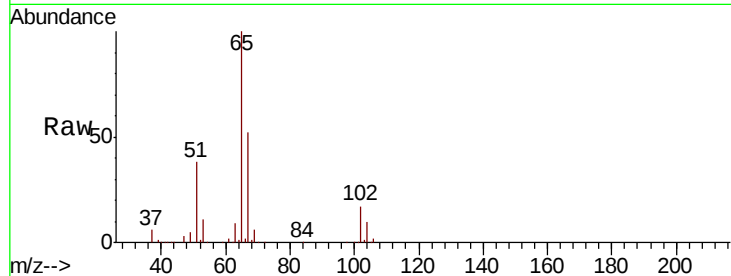




#33
 1,2-Dichloroethane-d4
 Concen: 56.059 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057880.D
 Acq: 10 Sep 2019 21:49

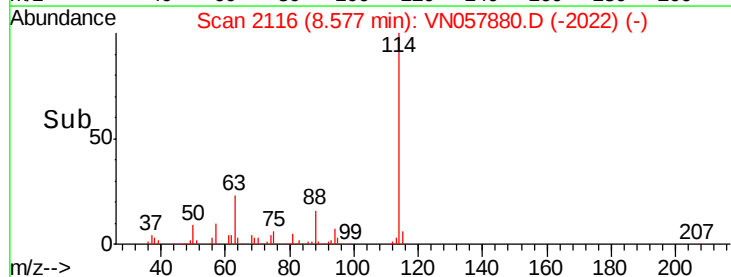
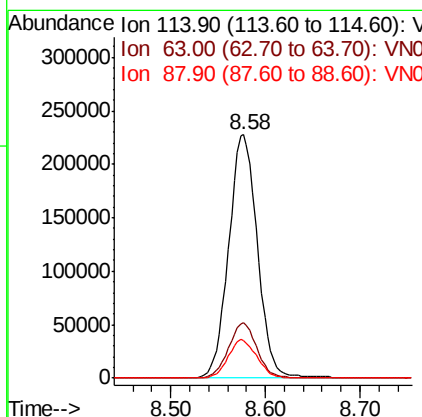
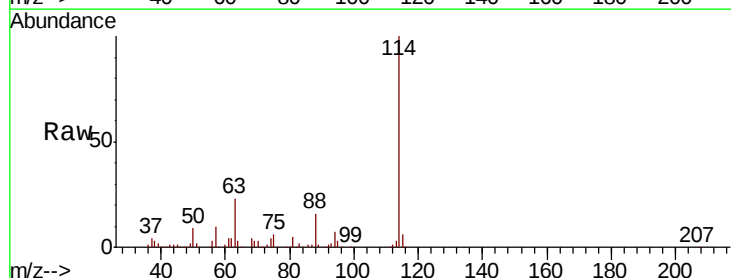
Instrument :
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 ClientSampleId :
 PAR-11-D4-(4)

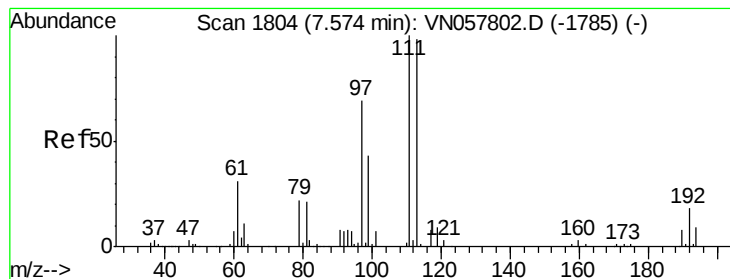
Tgt Ion: 65 Resp: 322597
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057880.D
 Acq: 10 Sep 2019 21:49

Tgt Ion: 114 Resp: 480885
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.0
 88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.861 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D4-(4)

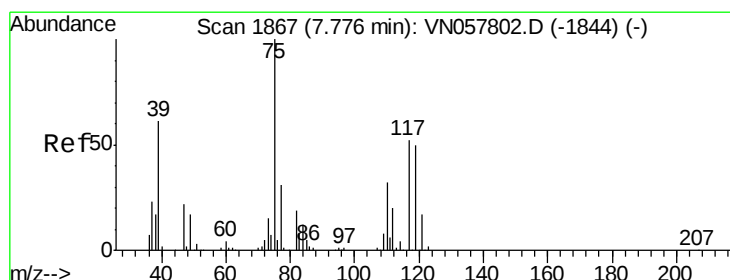
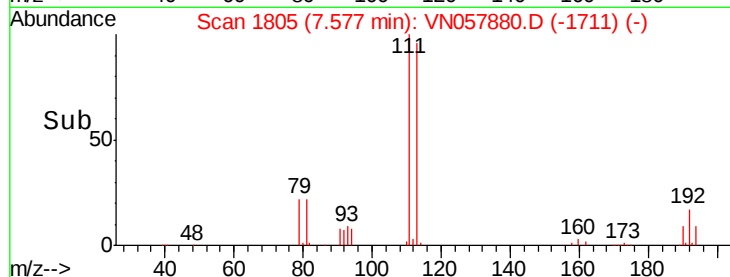
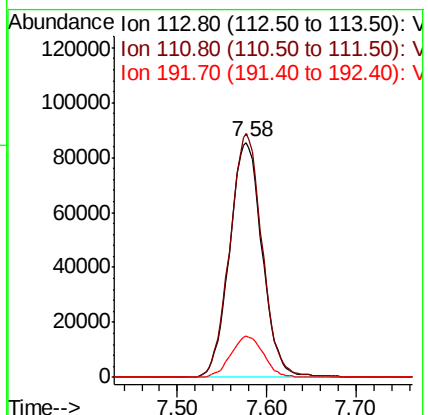
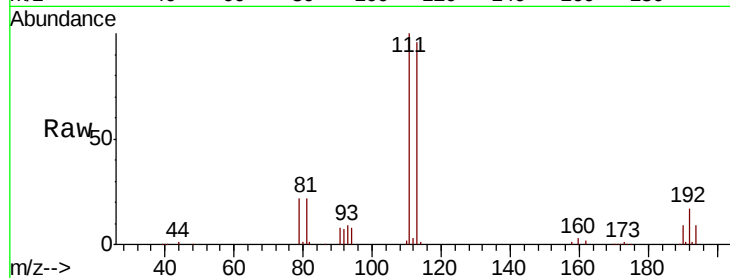
Tgt Ion:113 Resp: 216864

Ion Ratio Lower Upper

113 100

111 103.1 81.3 121.9

192 17.4 14.6 22.0



#36

1,1-Dichloropropene

Concen: 4.431 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

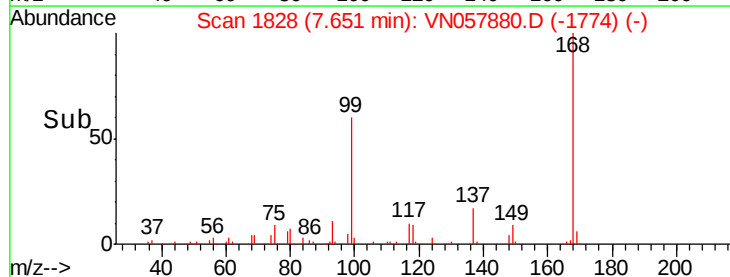
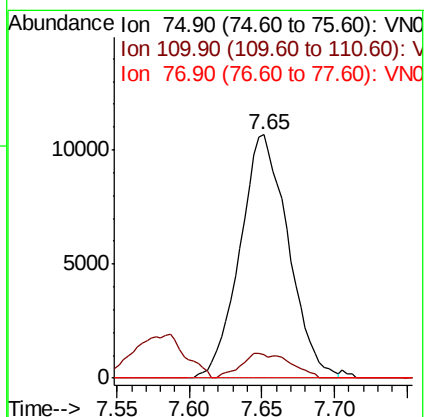
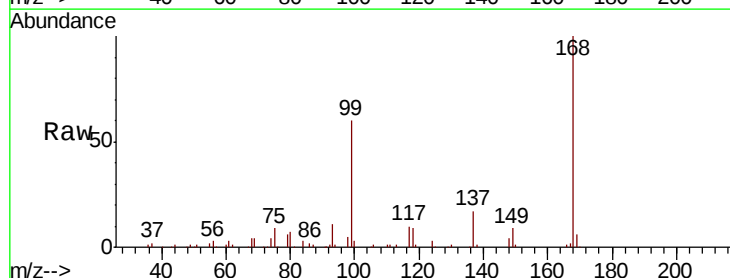
Tgt Ion: 75 Resp: 24711

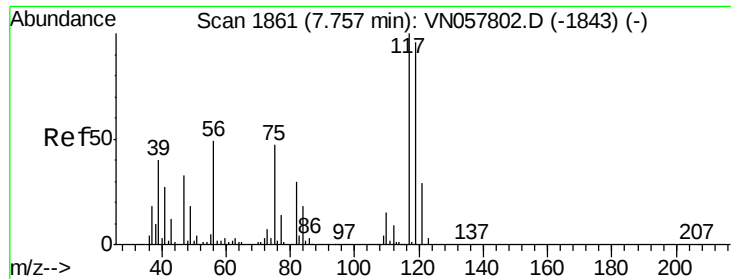
Ion Ratio Lower Upper

75 100

110 10.5 16.3 48.9#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.681 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D4-(4)

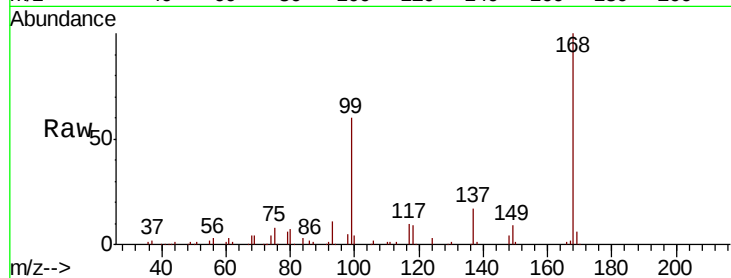
Tgt Ion:117 Resp: 28928

Ion Ratio Lower Upper

117 100

119 4.1 76.9 115.3#

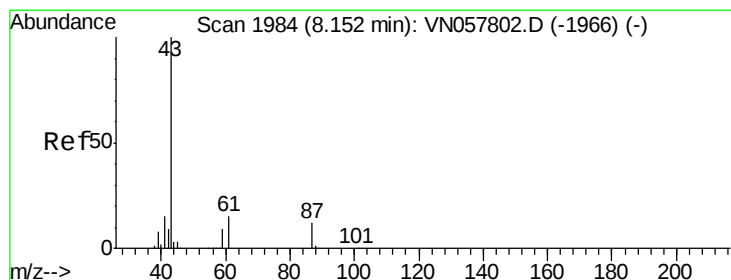
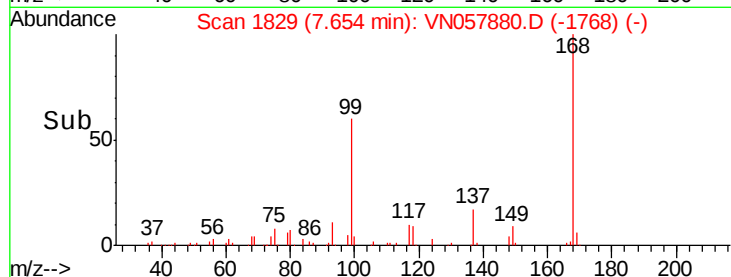
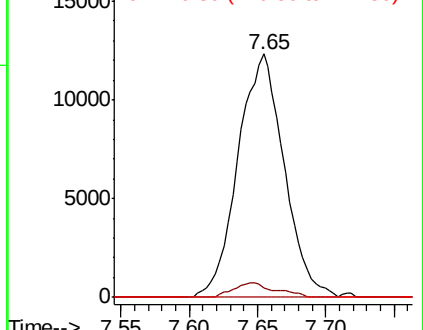
121 0.0 23.4 35.2#



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: 5.744 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

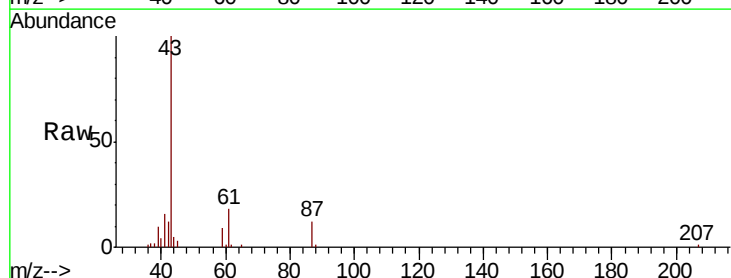
Tgt Ion: 43 Resp: 55660

Ion Ratio Lower Upper

43 100

61 18.0 20.1 30.1#

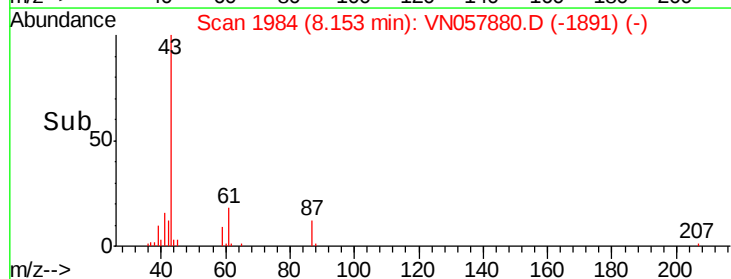
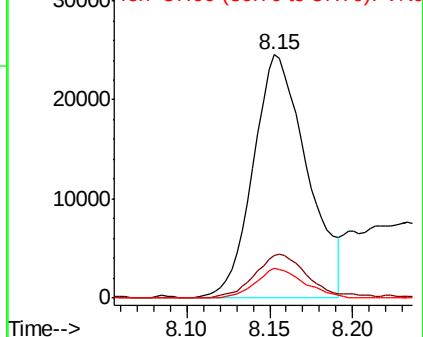
87 10.9 9.5 14.3

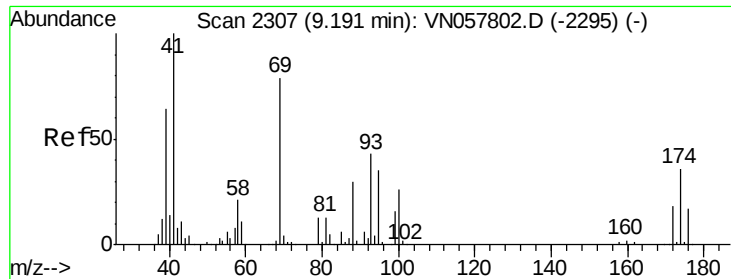


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

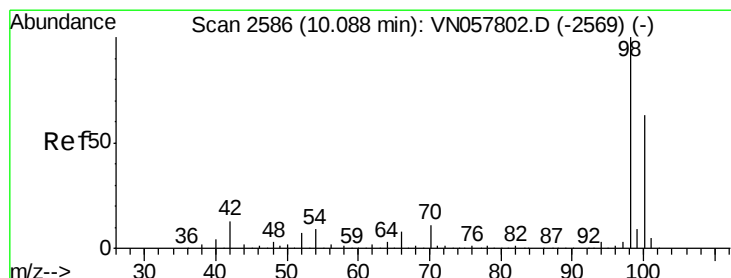
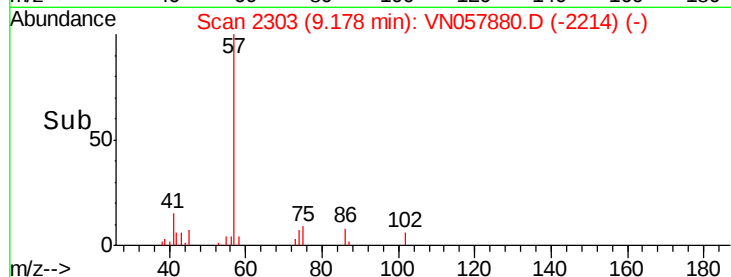
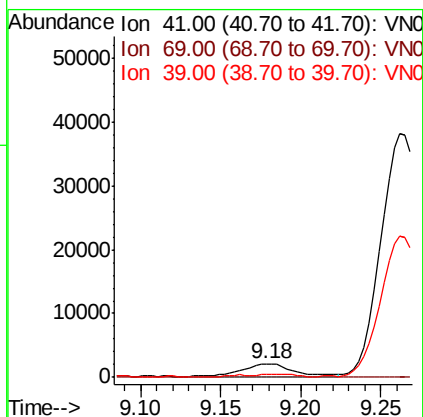
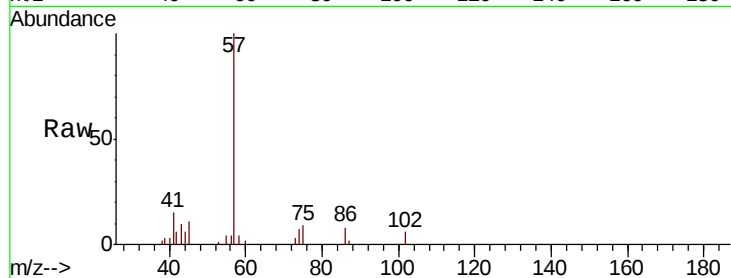




#48
Methyl methacrylate
Concen: 1.035 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

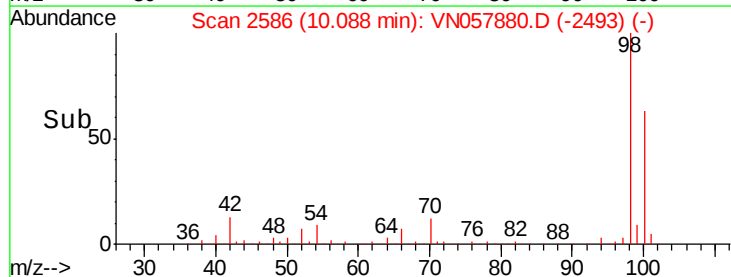
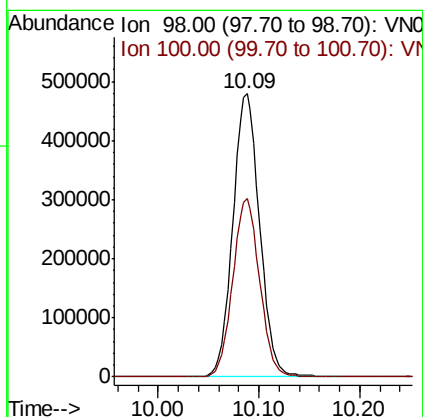
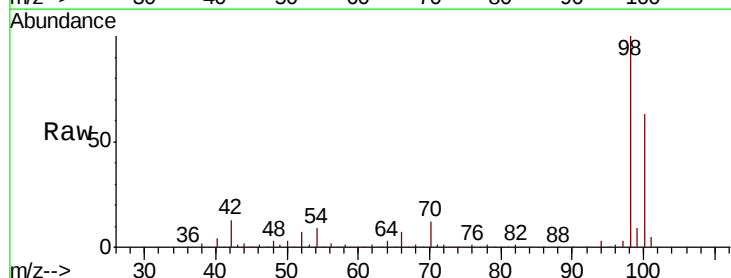
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(4)

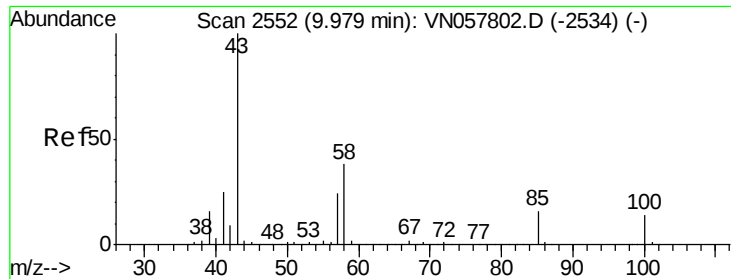
Tgt Ion: 41 Resp: 5088
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 51.345 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

Tgt Ion: 98 Resp: 884793
Ion Ratio Lower Upper
98 100
100 63.2 50.3 75.5

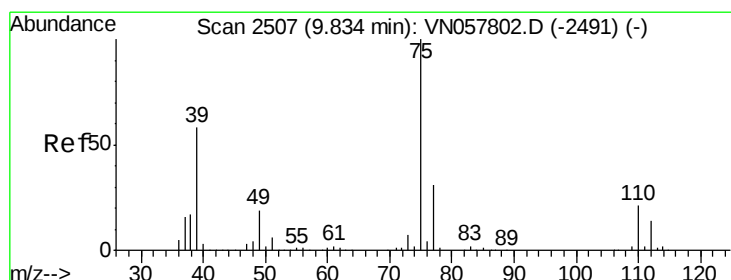
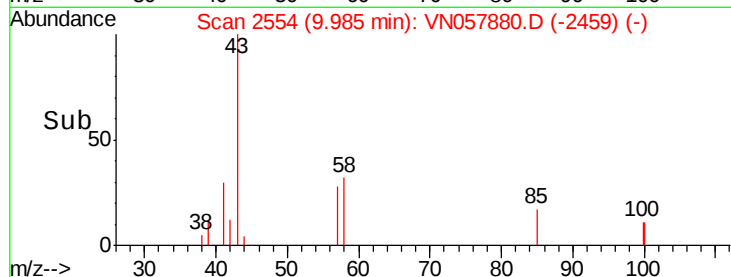
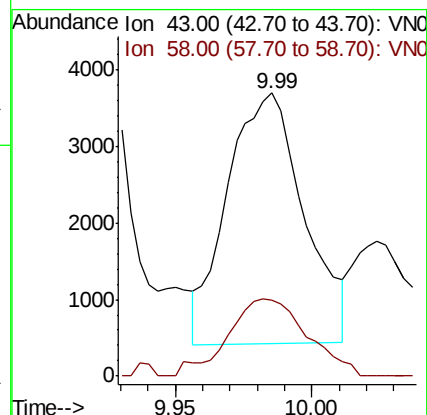
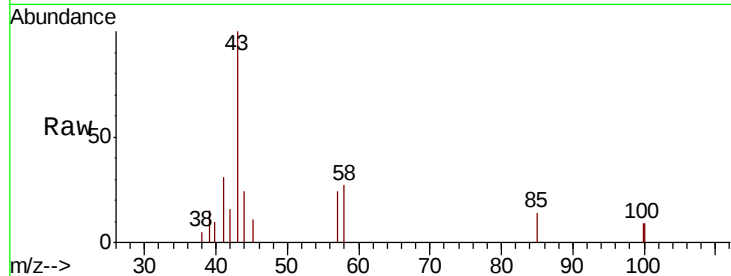




#51
 4-Methyl-2-Pentanone
 Concen: 1.117 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.01 min
 Lab File: VN057880.D
 Acq: 10 Sep 2019 21:49

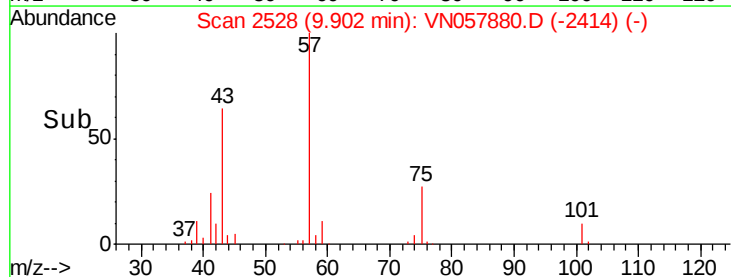
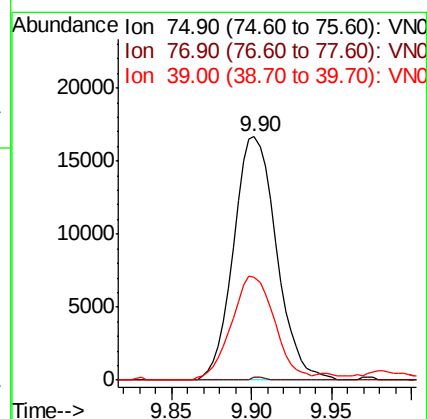
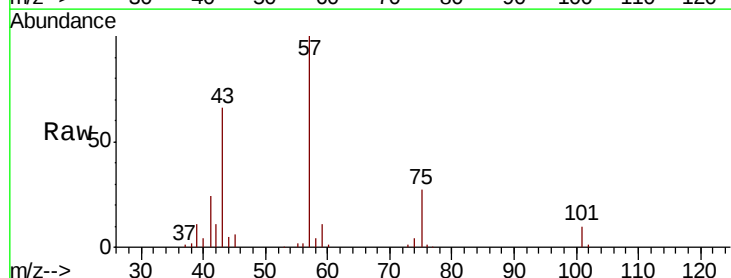
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D4-(4)

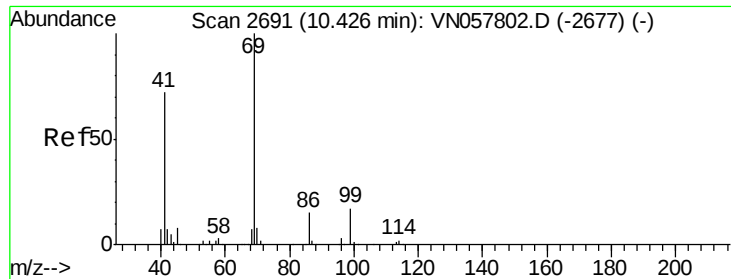
Tgt Ion: 43 Resp: 6405
 Ion Ratio Lower Upper
 43 100
 58 31.9 29.8 44.6



#54
 cis-1,3-Dichloropropene
 Concen: 4.454 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057880.D
 Acq: 10 Sep 2019 21:49

Tgt Ion: 75 Resp: 30532
 Ion Ratio Lower Upper
 75 100
 77 1.2 24.8 37.2#
 39 42.2 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.251 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D4-(4)

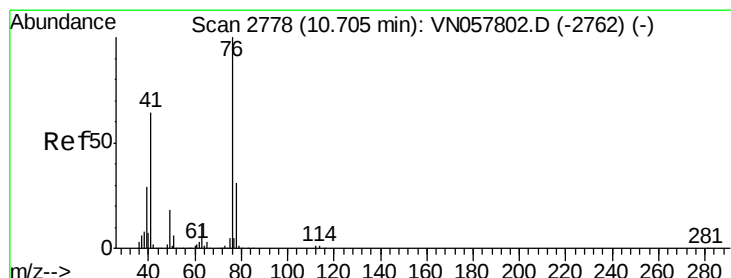
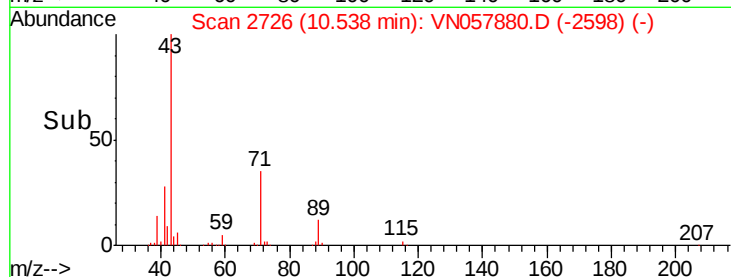
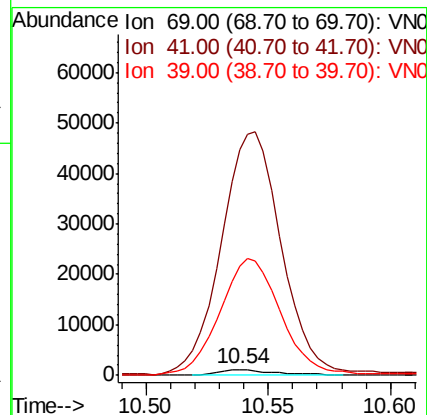
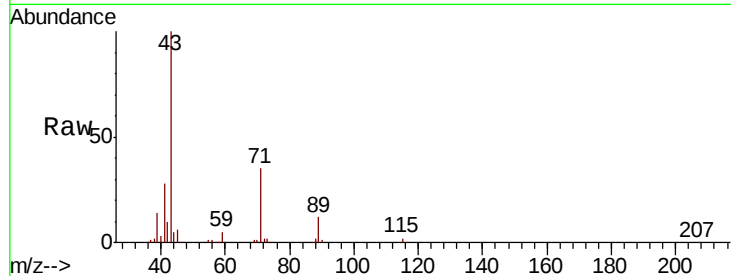
Tgt Ion: 69 Resp: 1693

Ion Ratio Lower Upper

69 100

41 4852.7 56.7 85.1#

39 2383.1 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.603 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057880.D

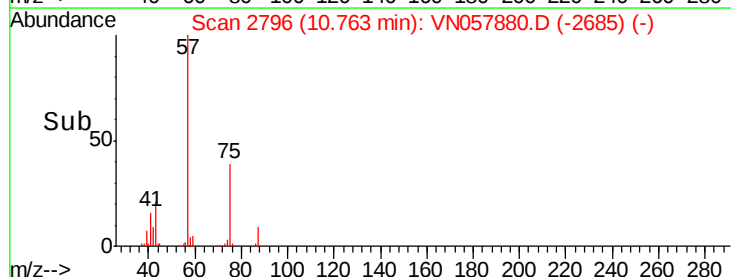
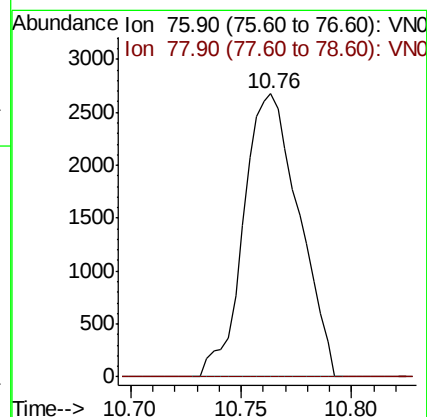
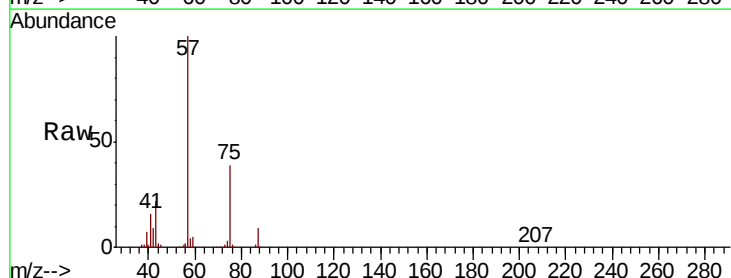
Acq: 10 Sep 2019 21:49

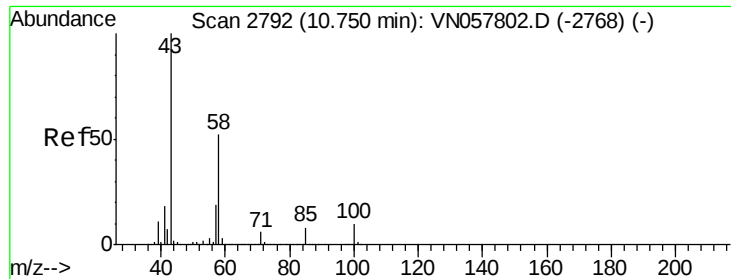
Tgt Ion: 76 Resp: 4658

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

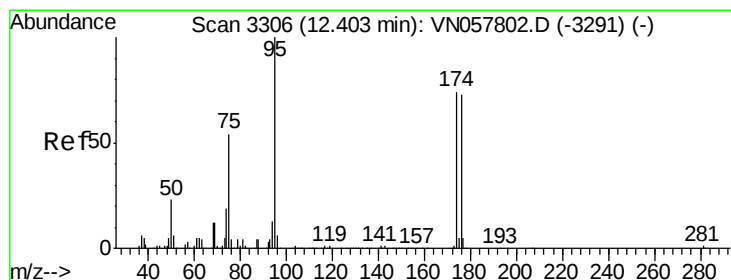
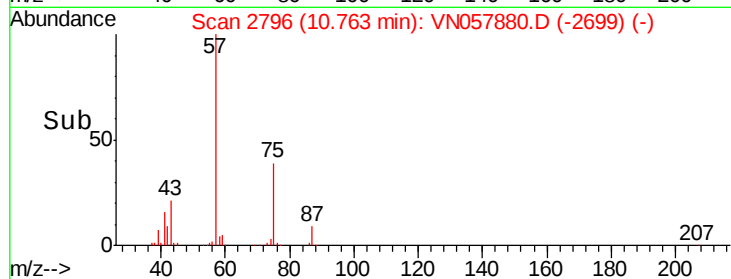
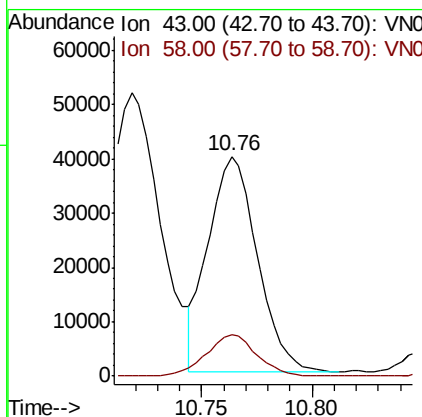
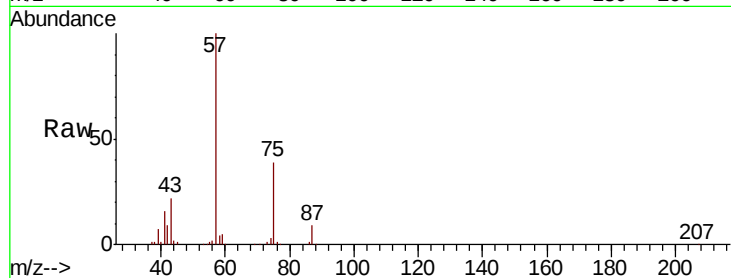




#59
 2-Hexanone
 Concen: 14.263 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057880.D
 Acq: 10 Sep 2019 21:49

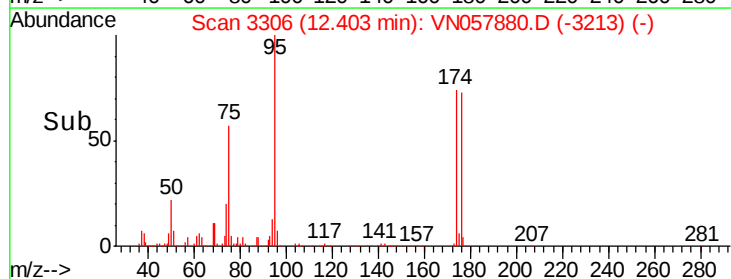
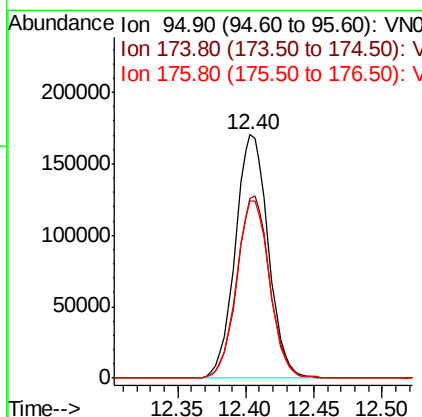
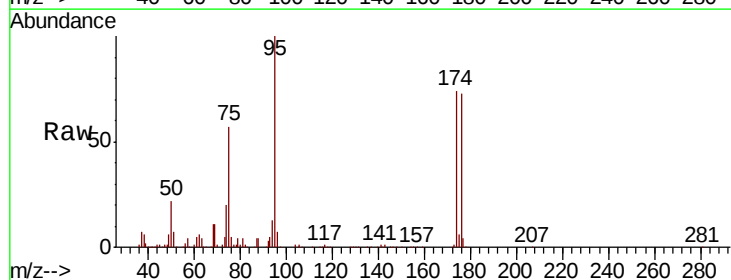
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D4-(4)

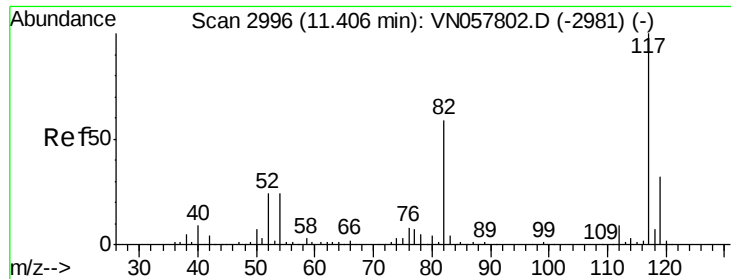
Tgt Ion: 43 Resp: 61303
 Ion Ratio Lower Upper
 43 100
 58 19.8 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 43.465 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057880.D
 Acq: 10 Sep 2019 21:49

Tgt Ion: 95 Resp: 285431
 Ion Ratio Lower Upper
 95 100
 174 74.2 0.0 150.2
 176 73.4 0.0 146.0

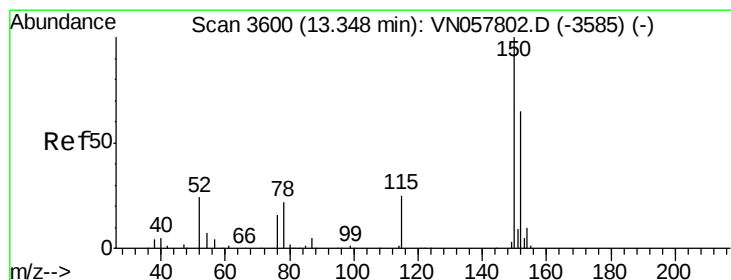
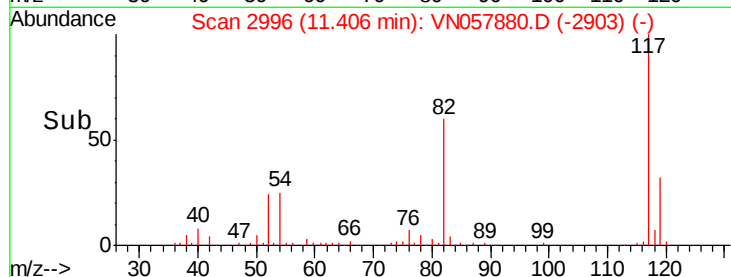
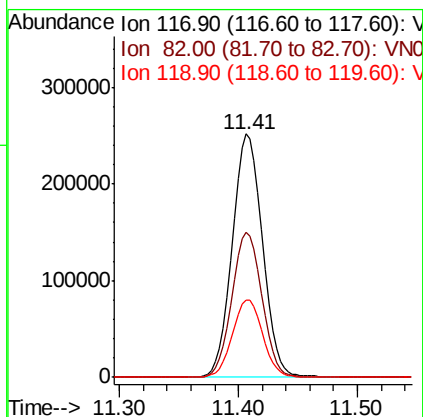
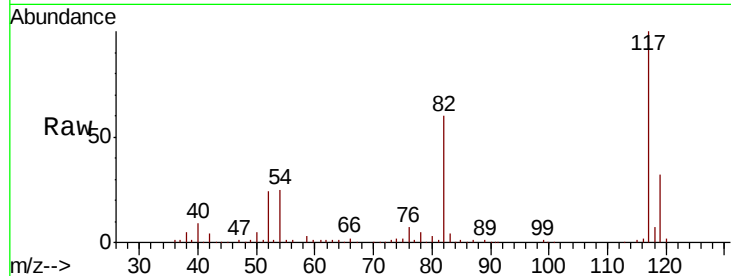




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

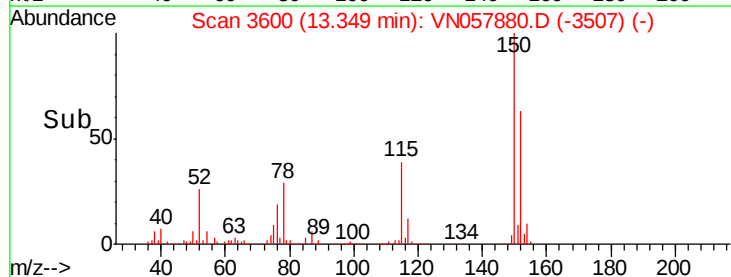
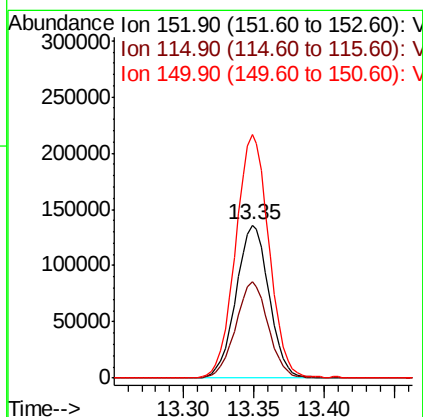
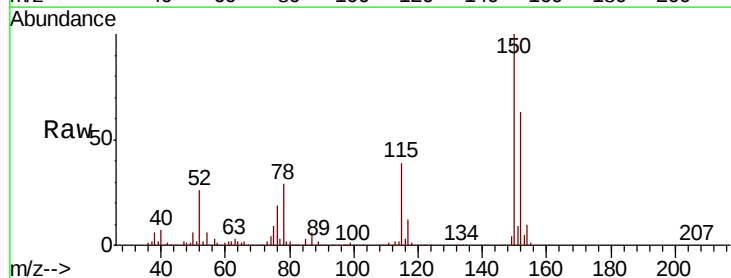
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(4)

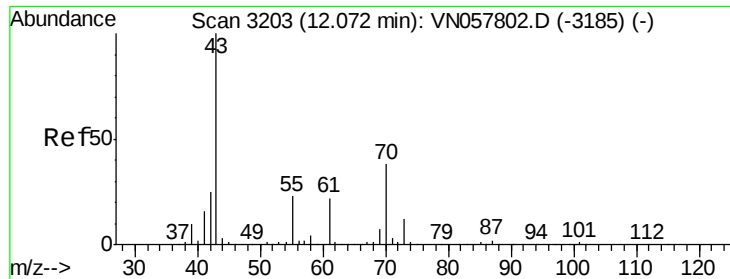
Tgt Ion:117 Resp: 444331
Ion Ratio Lower Upper
117 100
82 59.6 47.2 70.8
119 31.9 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

Tgt Ion:152 Resp: 223874
Ion Ratio Lower Upper
152 100
115 62.2 30.3 91.0
150 160.1 0.0 352.4





#74

N-ethyl acetate

Concen: 0.214 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057880.D

Acq: 10 Sep 2019 21:49

Instrument :

MSVOA_N

ClientSampled :

PAR-11-D4-(4)

Tgt Ion: 43 Resp: 1618

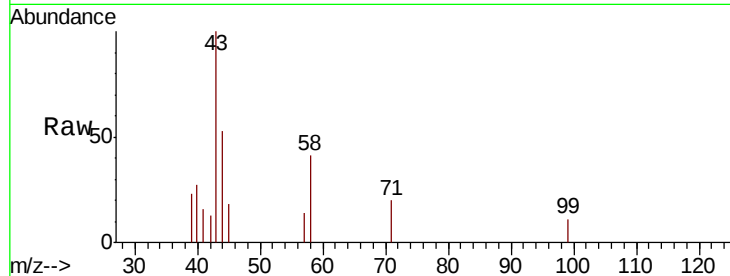
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#

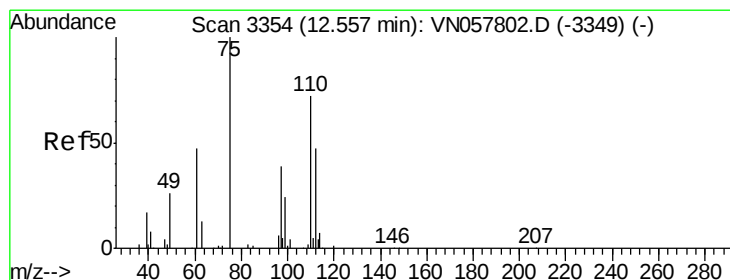
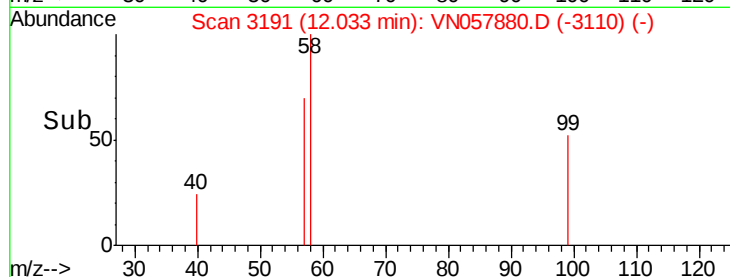
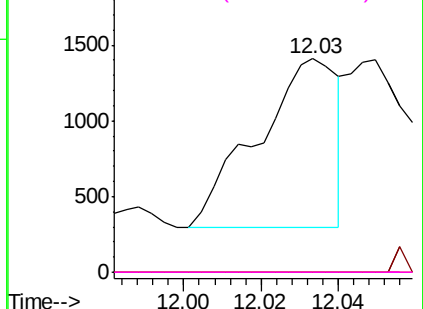


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.331 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057880.D

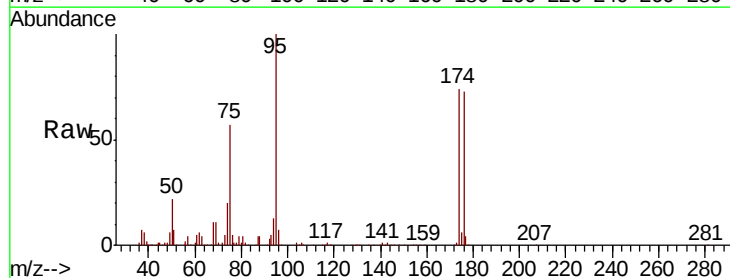
Acq: 10 Sep 2019 21:49

Tgt Ion: 75 Resp: 158671

Ion Ratio Lower Upper

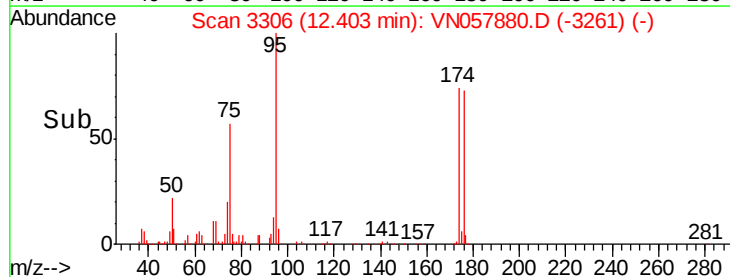
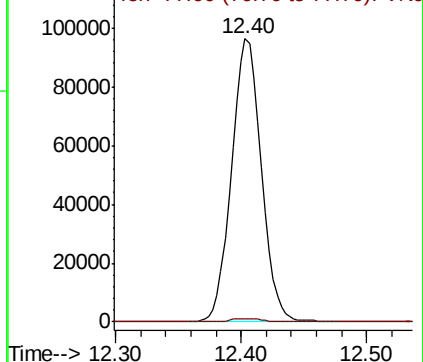
75 100

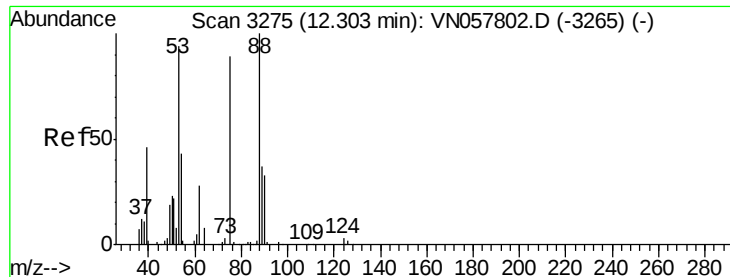
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

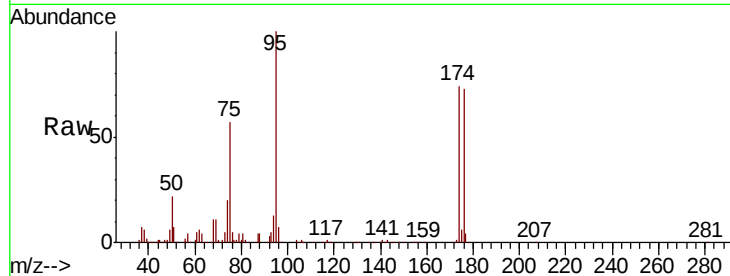




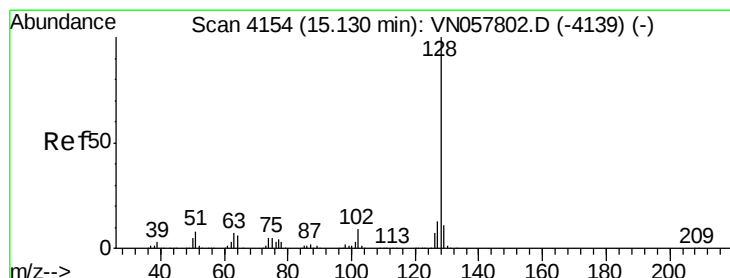
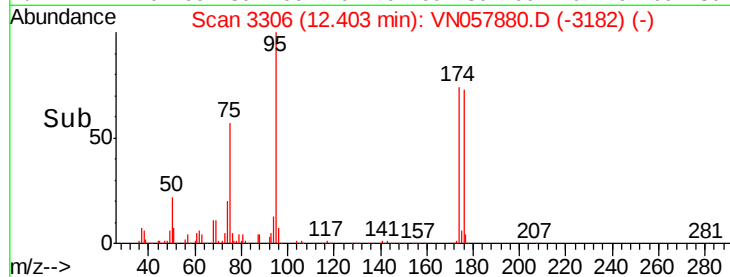
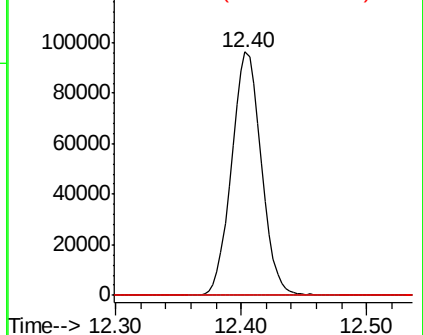
#81
trans-1,4-Dichloro-2-butene
Concen: 110.253 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(4)

Tgt Ion: 75 Resp: 158671
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#

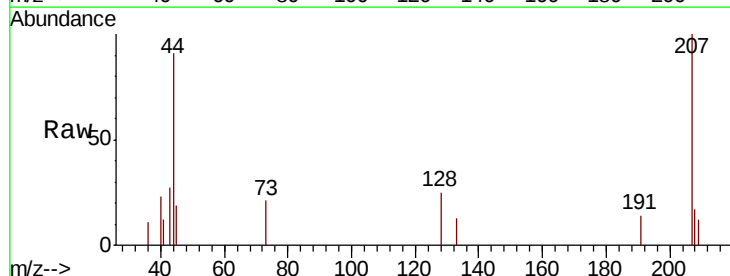


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN057880.D
Acq: 10 Sep 2019 21:49

Tgt Ion: 128 Resp: 302
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

