

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057872.D
 Acq On : 10 Sep 2019 18:52
 Operator : JC/SP
 Sample : K4623-27
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C4-(4)

Quant Time: Sep 11 03:56:26 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	295172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	494921	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	458027	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234205	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	328076	54.88	ug/l	0.00
Spiked Amount			Recovery	=	109.76%	
35) Dibromofluoromethane	7.57	113	223375	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
50) Toluene-d8	10.09	98	919506	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.40	95	295799	43.77	ug/l	0.00
Spiked Amount			Recovery	=	87.54%	

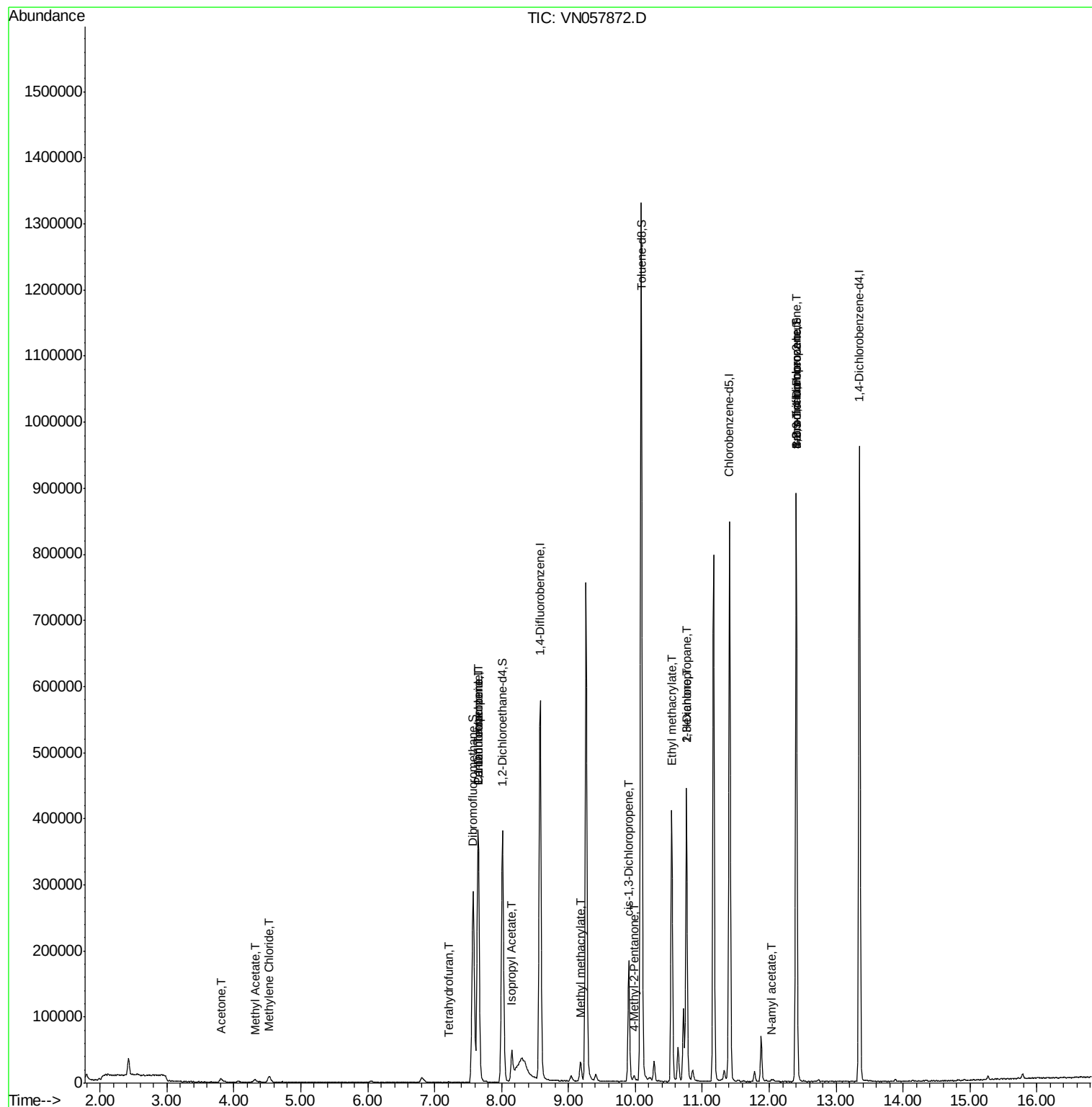
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	207	Below Cal		87
16) Acetone	3.80	43	10971	5.598	ug/l	94
18) Methyl Acetate	4.31	43	6422	1.229	ug/l	91
20) Methylene Chloride	4.53	84	6764	0.597	ug/l	89
29) Tetrahydrofuran	7.20	42	411	0.235	ug/l #	34
31) Cyclohexane	7.65	56	8270	Below Cal	#	15
36) 1,1-Dichloropropene	7.65	75	26597	4.634	ug/l #	50
38) Carbon Tetrachloride	7.65	117	29977	5.720	ug/l #	16
43) Isopropyl Acetate	8.15	43	61894	6.206	ug/l #	88
48) Methyl methacrylate	9.17	41	4646	0.918	ug/l #	32
51) 4-Methyl-2-Pentanone	9.98	43	4918	0.833	ug/l #	85
54) cis-1,3-Dichloropropene	9.90	75	31678	4.490	ug/l #	67
56) Ethyl methacrylate	10.55	69	1553	0.224	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4576	0.576	ug/l #	43
59) 2-Hexanone	10.76	43	65785	14.872	ug/l #	53
71) Bromoform	12.40	173	1157	0.446	ug/l #	1
74) N-amyl acetate	12.03	43	1641	0.207	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	162908	30.748	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	162908	108.204	ug/l #	6
95) Naphthalene	15.13	128	807	Below Cal	#	69

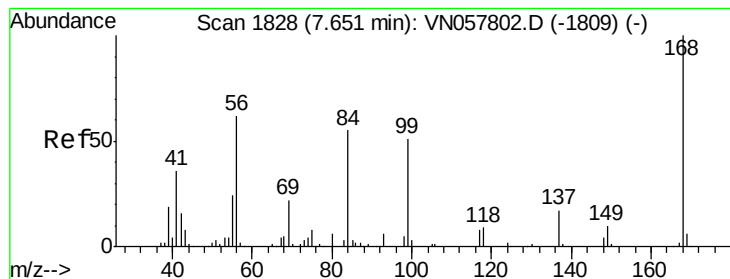
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

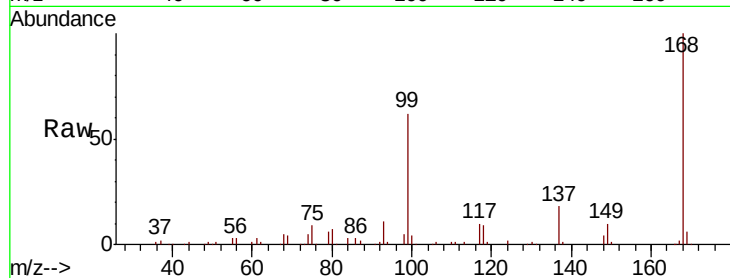
PAR-11-C4-(4)

Tgt Ion:168 Resp: 295172

Ion Ratio Lower Upper

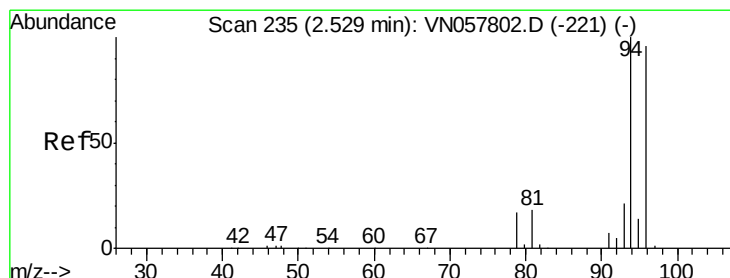
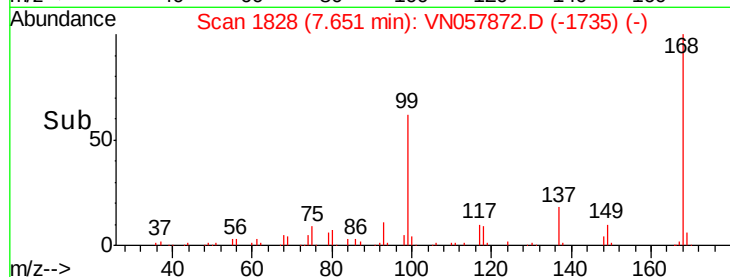
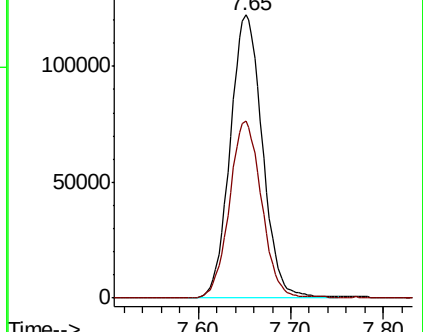
168 100

99 62.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057872.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057872.D (-1809) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057872.D

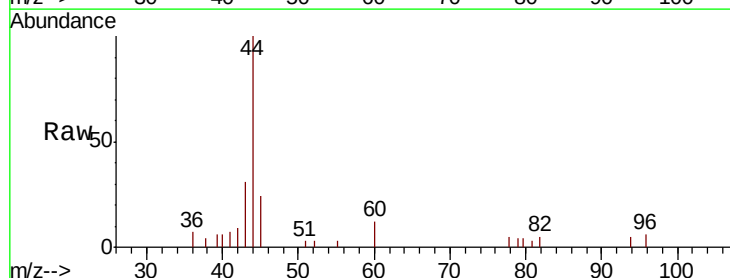
Acq: 10 Sep 2019 18:52

Tgt Ion: 94 Resp: 207

Ion Ratio Lower Upper

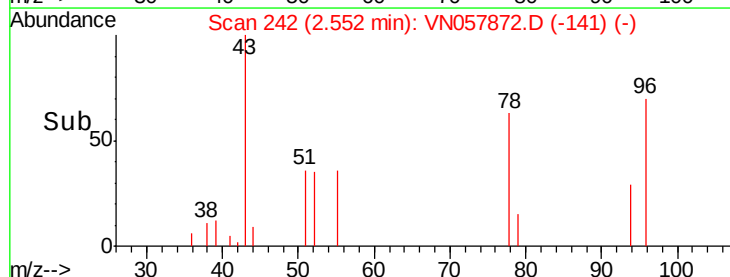
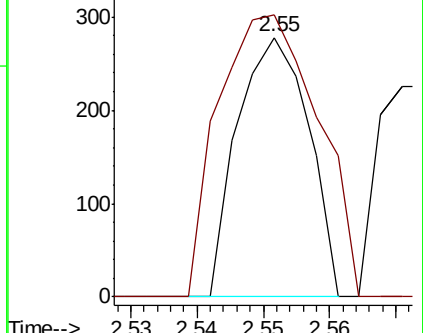
94 100

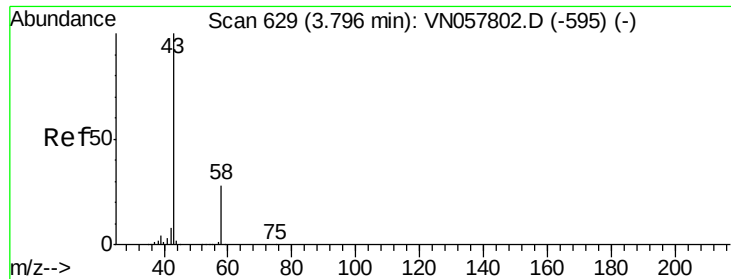
96 109.0 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN057872.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057872.D (-221) (-)

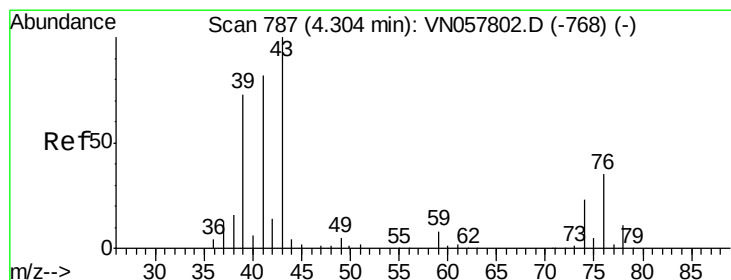
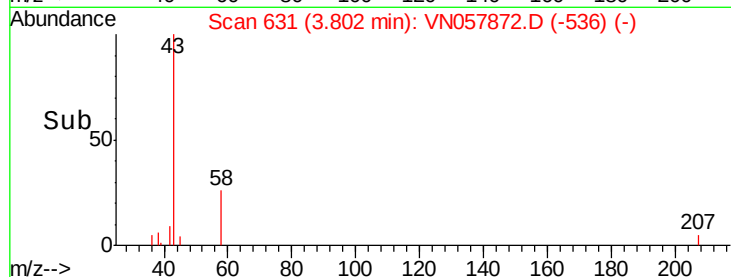
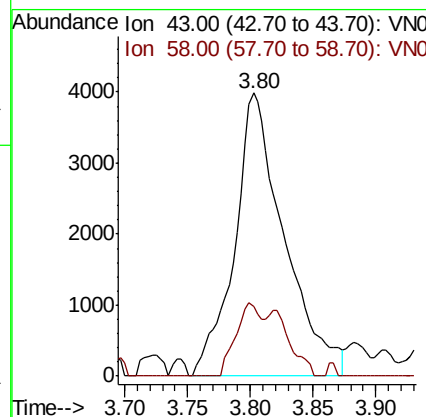
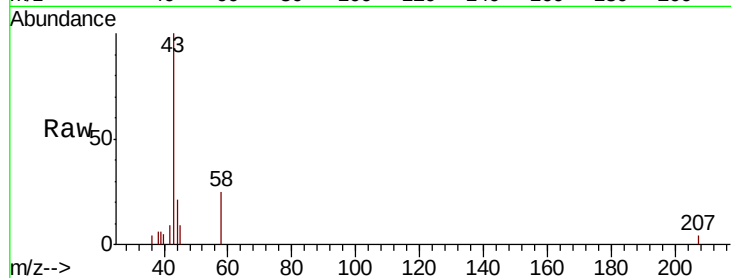




#16
Acetone
Concen: 5.598 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057872.D
Acq: 10 Sep 2019 18:52

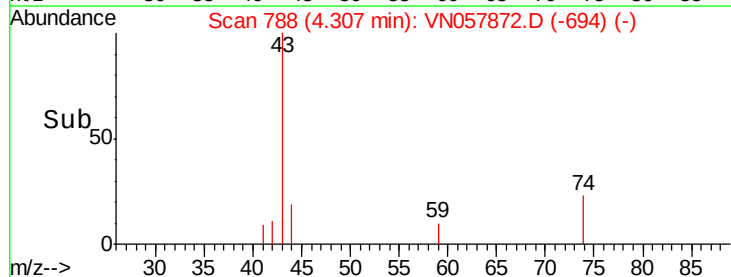
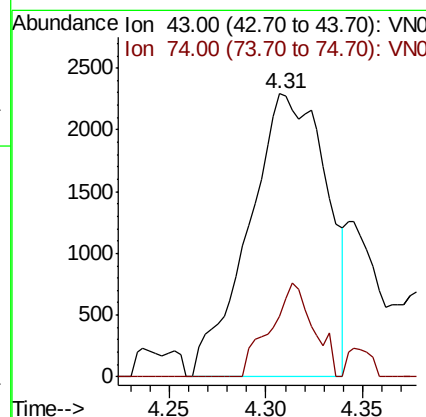
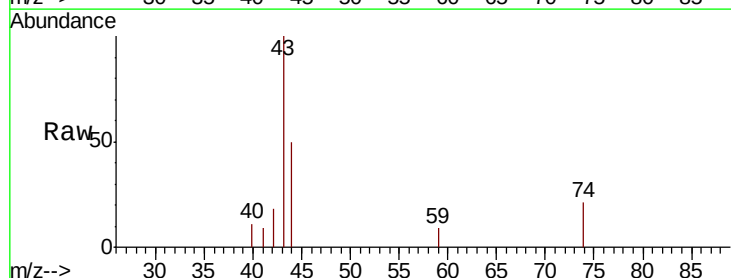
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C4-(4)

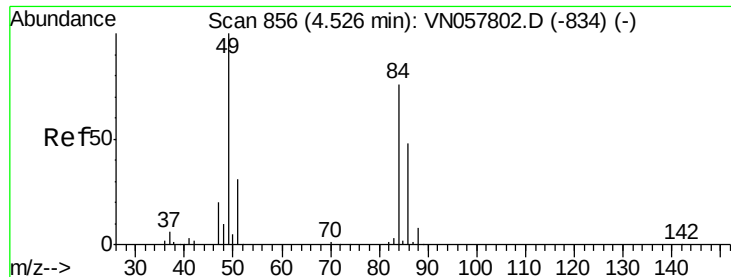
Tgt Ion: 43 Resp: 10971
Ion Ratio Lower Upper
43 100
58 24.7 22.2 33.2



#18
Methyl Acetate
Concen: 1.229 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057872.D
Acq: 10 Sep 2019 18:52

Tgt Ion: 43 Resp: 6422
Ion Ratio Lower Upper
43 100
74 18.3 17.9 26.9

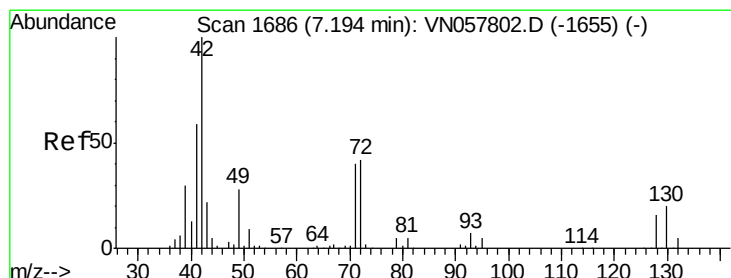
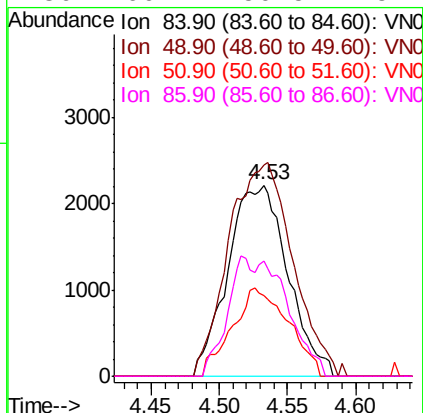
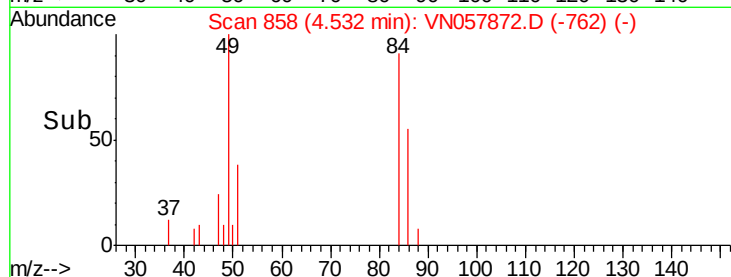
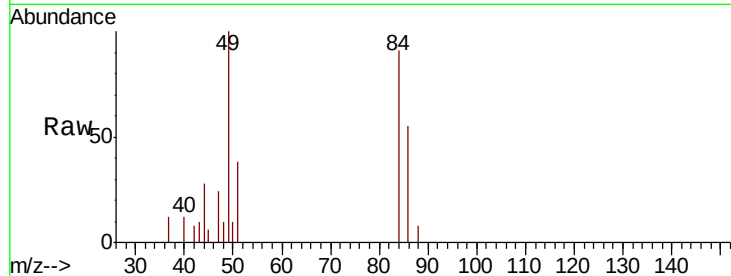




#20
Methylene Chloride
Concen: 0.597 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057872.D
Acq: 10 Sep 2019 18:52

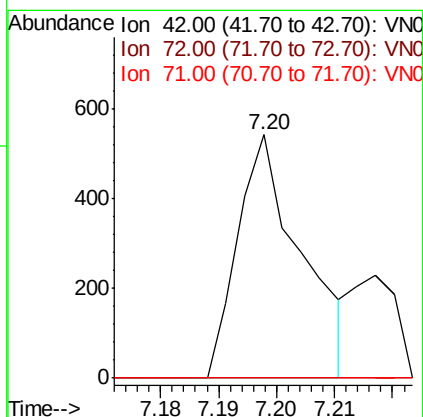
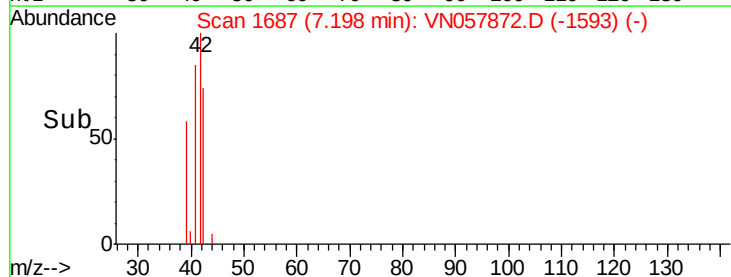
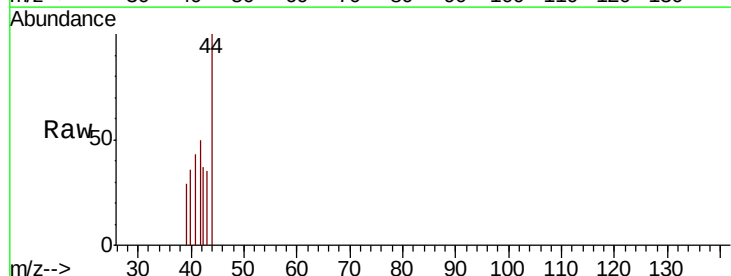
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C4-(4)

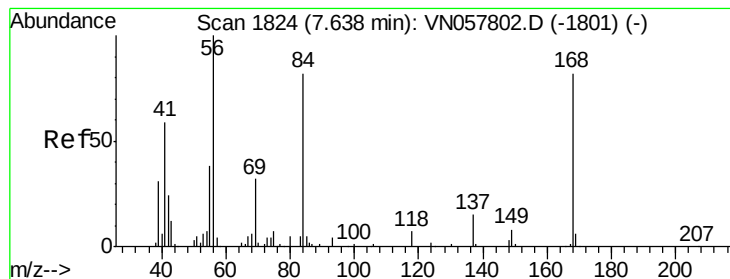
Tgt Ion:	84	Resp:	6764
Ion	Ratio	Lower	Upper
84	100		
49	110.3	104.8	157.2
51	42.0	33.0	49.4
86	60.4	50.5	75.7



#29
Tetrahydrofuran
Concen: 0.235 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN057872.D
Acq: 10 Sep 2019 18:52

Tgt Ion:	42	Resp:	411
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	31.9	47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(4)

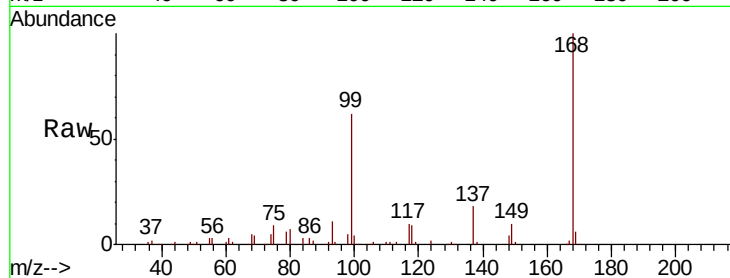
Tgt Ion: 56 Resp: 8270

Ion Ratio Lower Upper

56 100

69 156.7 25.9 38.9#

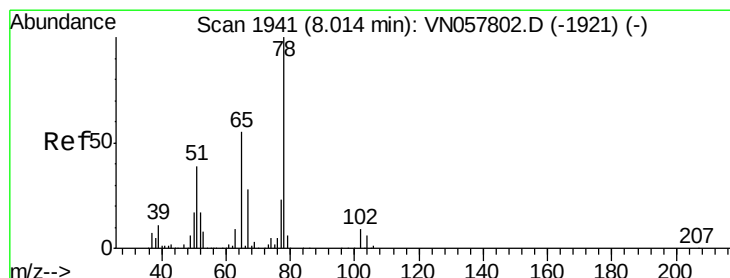
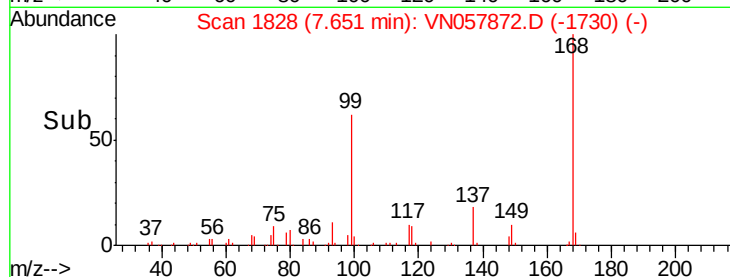
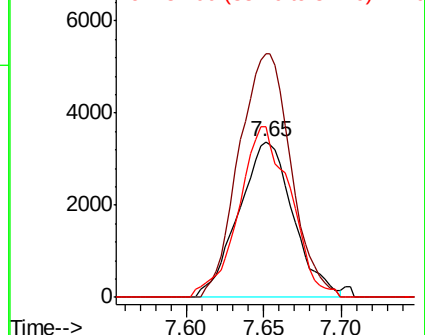
84 109.8 65.6 98.4#



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: 54.876 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057872.D

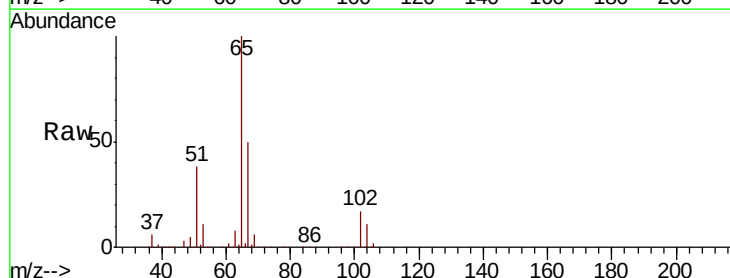
Acq: 10 Sep 2019 18:52

Tgt Ion: 65 Resp: 328076

Ion Ratio Lower Upper

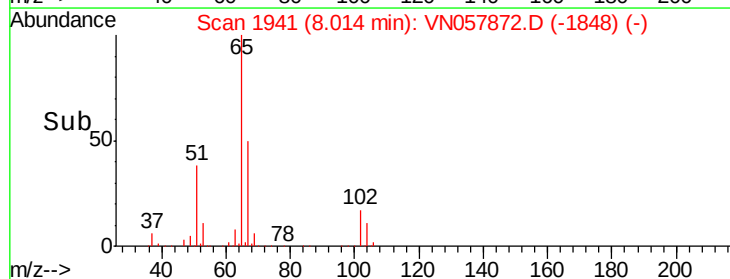
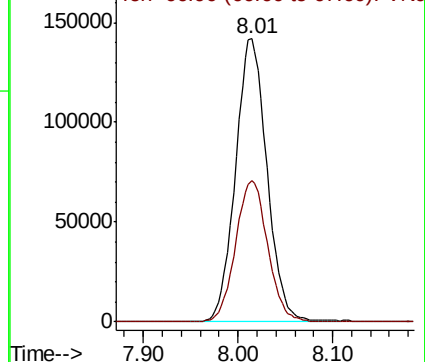
65 100

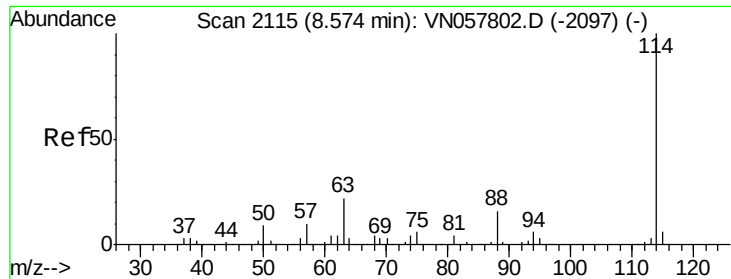
67 51.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

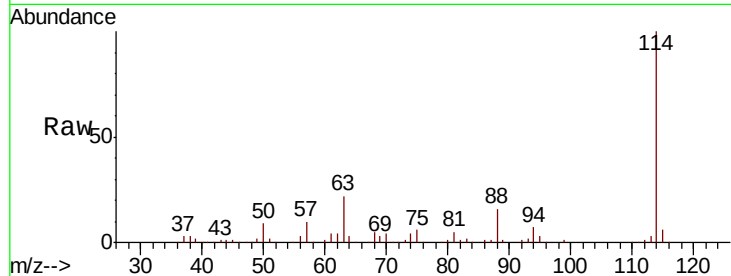




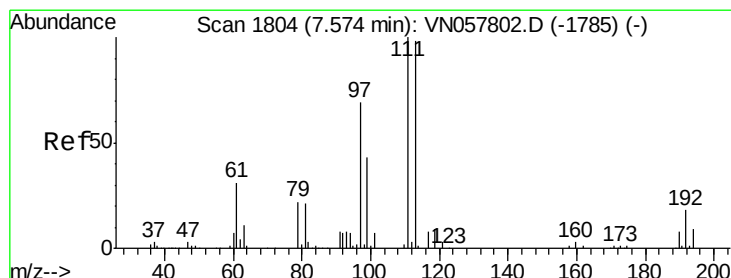
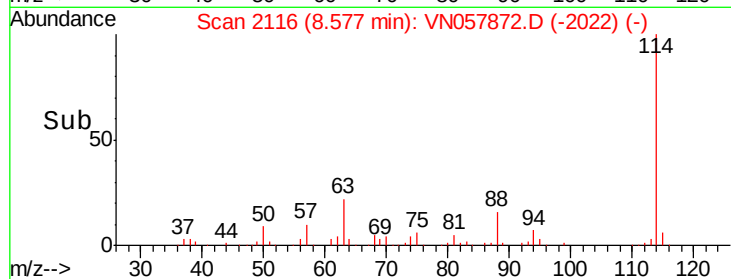
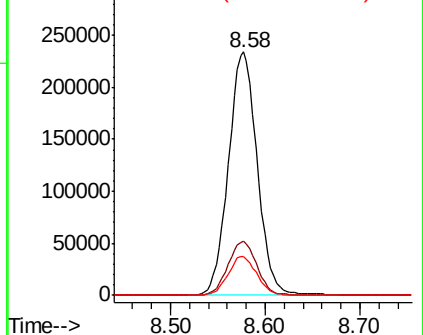
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057872.D
 Acq: 10 Sep 2019 18:52

Instrument :
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 PAR-11-C4-(4)

Tgt Ion:114 Resp: 494921
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 16.1 0.0 31.4

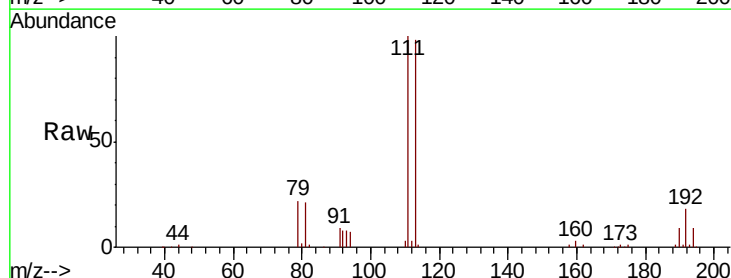


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

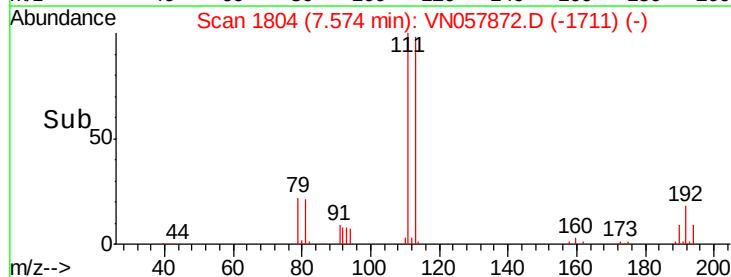
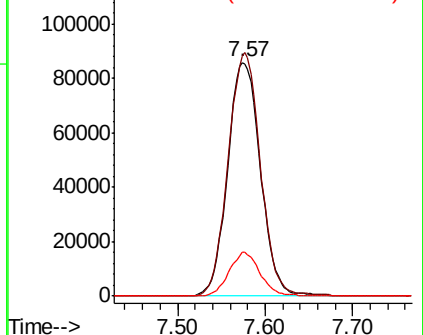


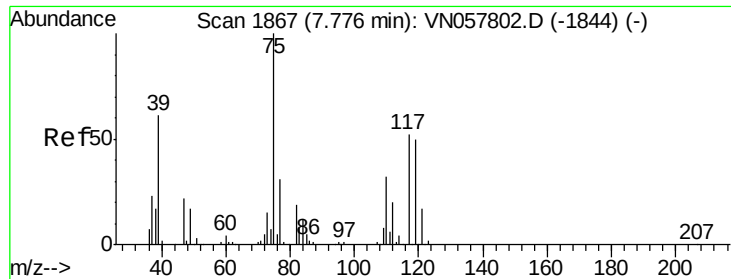
#35
 Dibromofluoromethane
 Concen: 48.901 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN057872.D
 Acq: 10 Sep 2019 18:52

Tgt Ion:113 Resp: 223375
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.3 121.9
 192 17.7 14.6 22.0



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

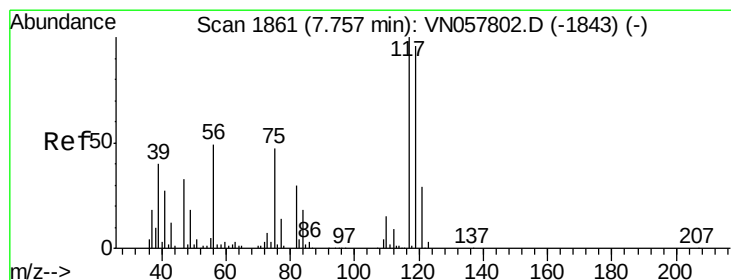
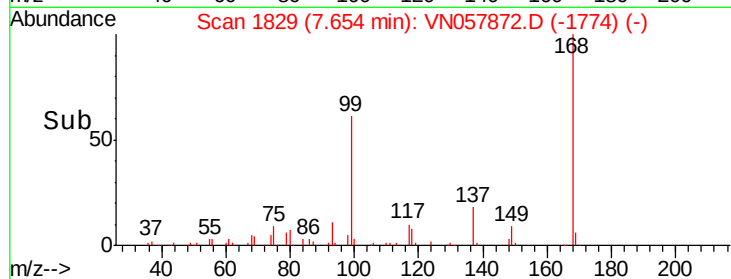
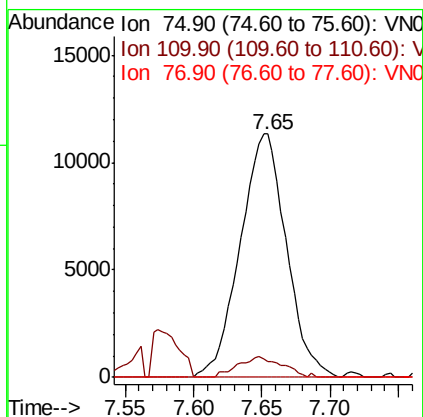
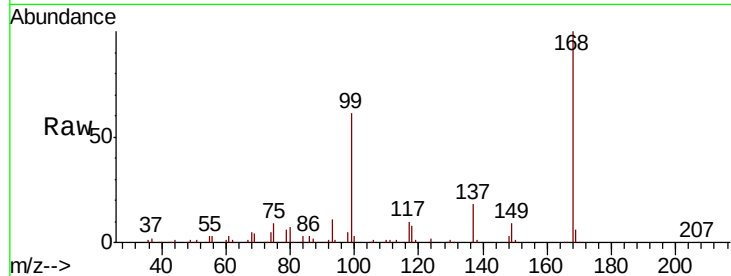




#36
 1,1-Dichloropropene
 Concen: 4.634 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057872.D
 Acq: 10 Sep 2019 18:52

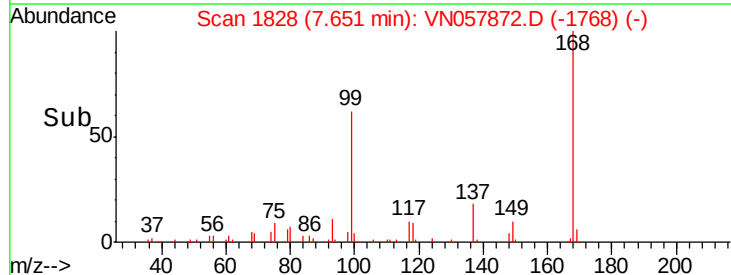
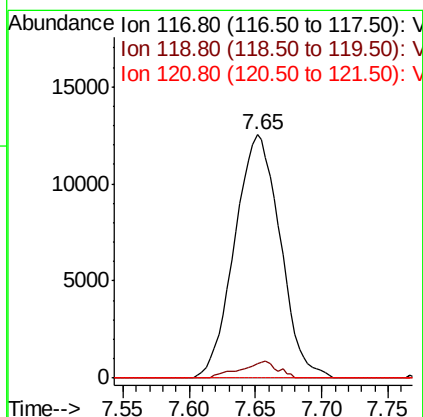
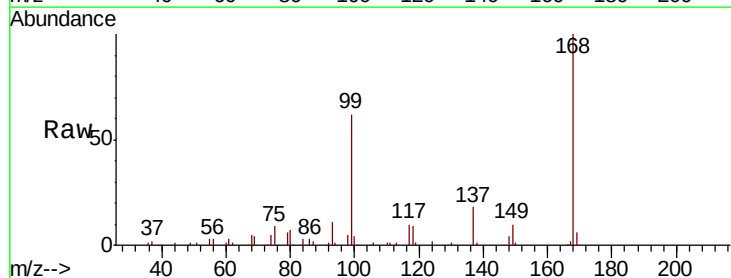
Instrument :
 MSVOA_N
 ClientSampled :
 PAR-11-C4-(4)

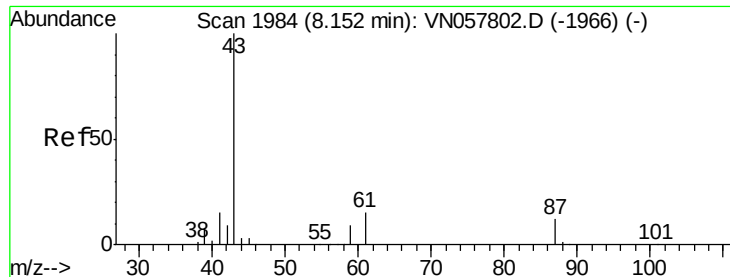
Tgt Ion: 75 Resp: 26597
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.720 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057872.D
 Acq: 10 Sep 2019 18:52

Tgt Ion: 117 Resp: 29977
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 6.206 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(4)

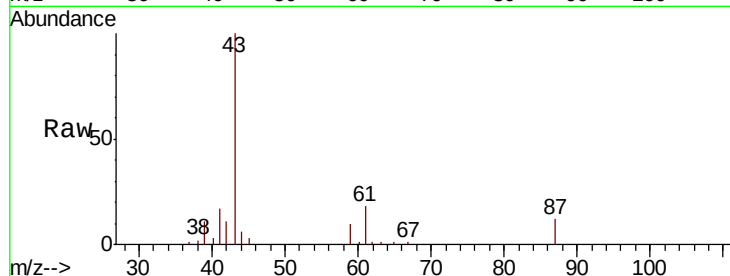
Tgt Ion: 43 Resp: 61894

Ion Ratio Lower Upper

43 100

61 16.7 20.1 30.1#

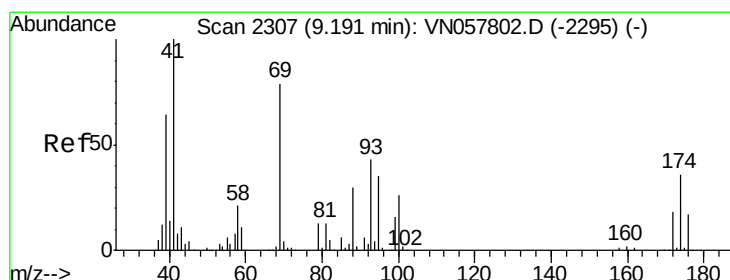
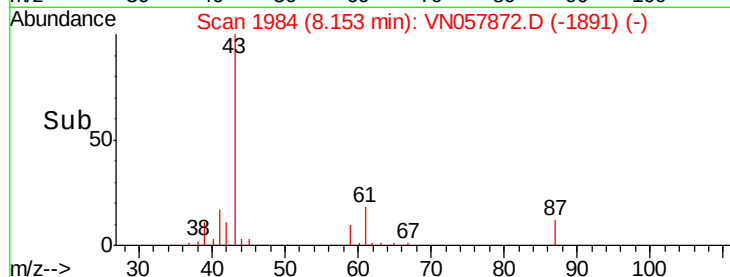
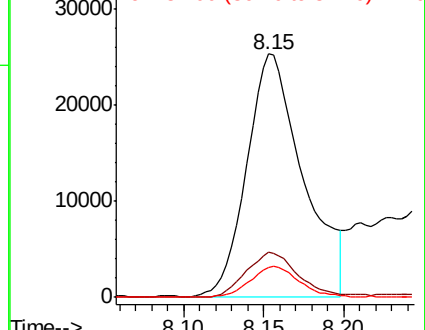
87 10.9 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 0.918 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

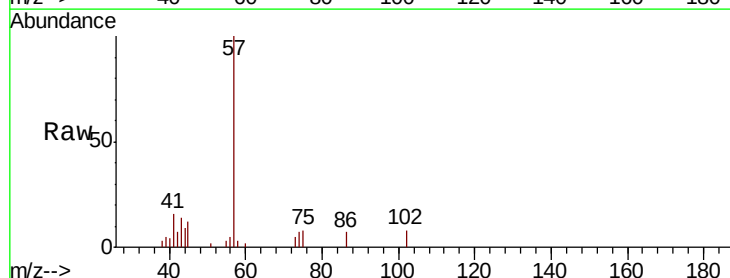
Tgt Ion: 41 Resp: 4646

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

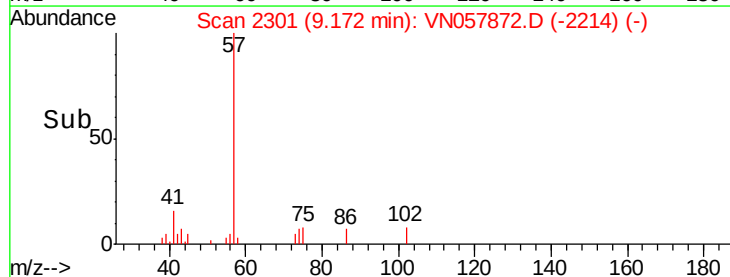
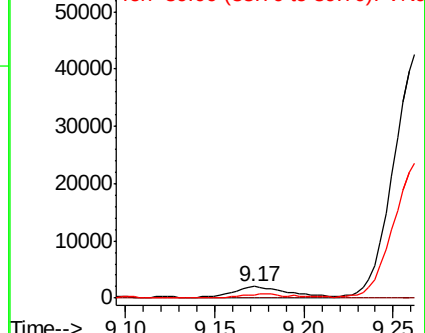
39 31.9 52.7 79.1#

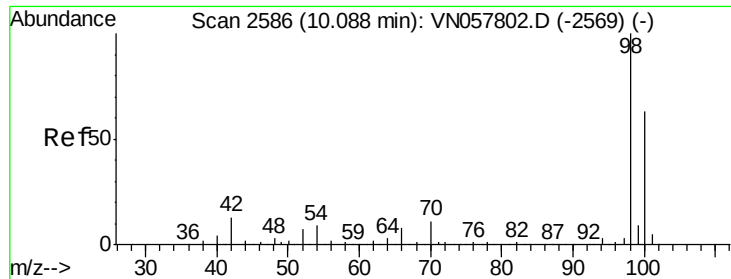


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 51.847 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

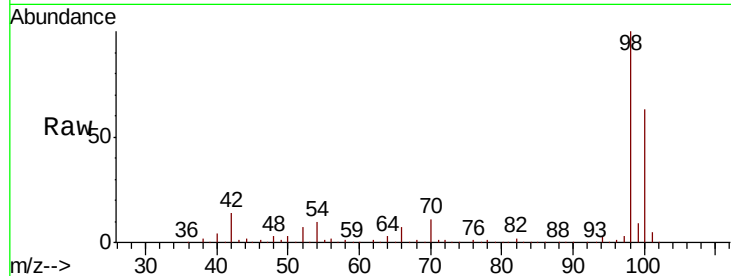
PAR-11-C4-(4)

Tgt Ion: 98 Resp: 919506

Ion Ratio Lower Upper

98 100

100 63.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

500000

400000

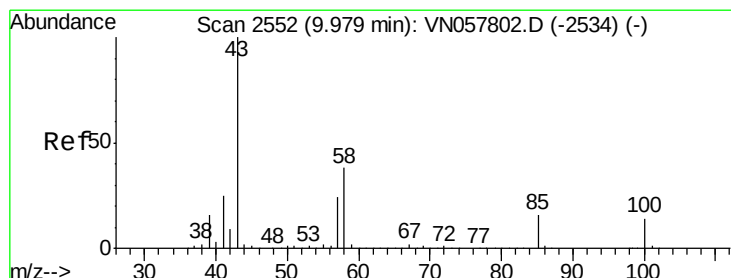
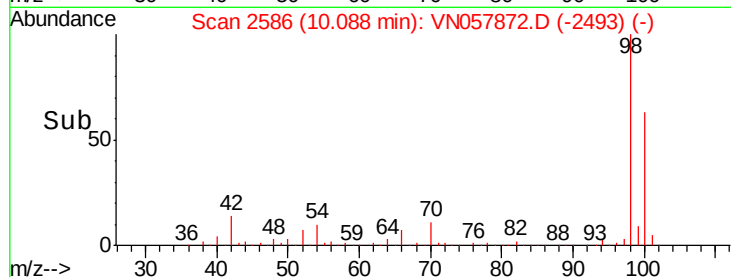
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.833 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057872.D

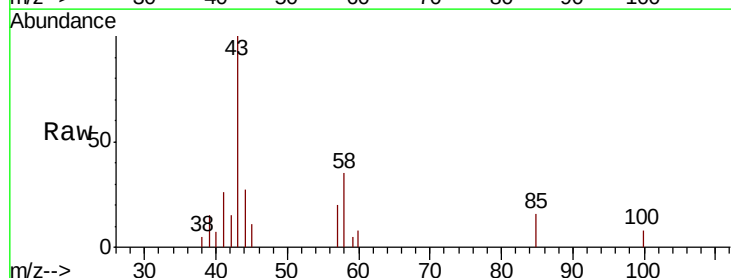
Acq: 10 Sep 2019 18:52

Tgt Ion: 43 Resp: 4918

Ion Ratio Lower Upper

43 100

58 46.0 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

20000

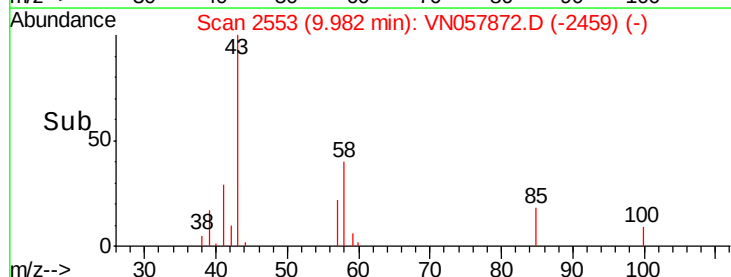
15000

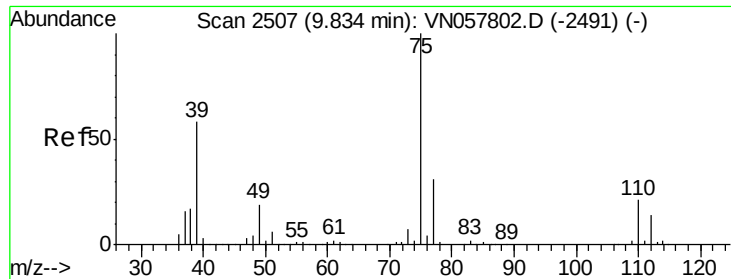
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.490 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(4)

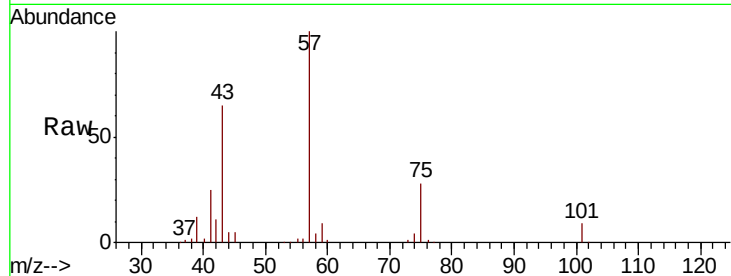
Tgt Ion: 75 Resp: 31678

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

39 42.3 46.2 69.4#

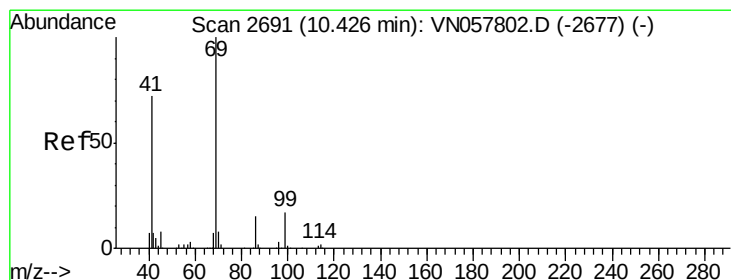
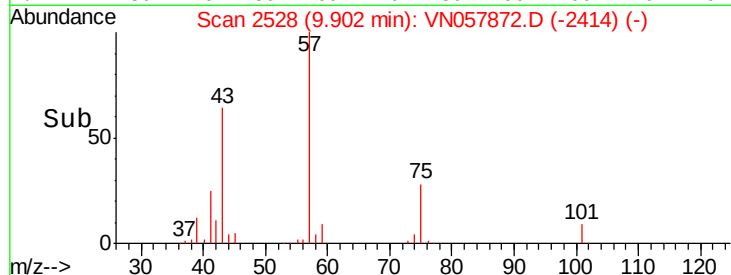
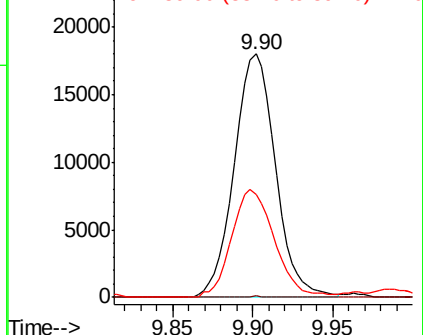


Abundance

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: 0.224 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

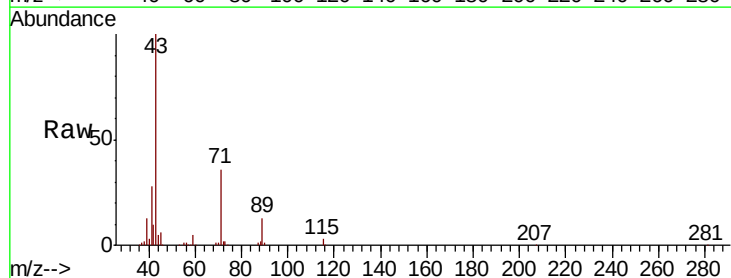
Tgt Ion: 69 Resp: 1553

Ion Ratio Lower Upper

69 100

41 5514.6 56.7 85.1#

39 2600.1 36.3 54.5#

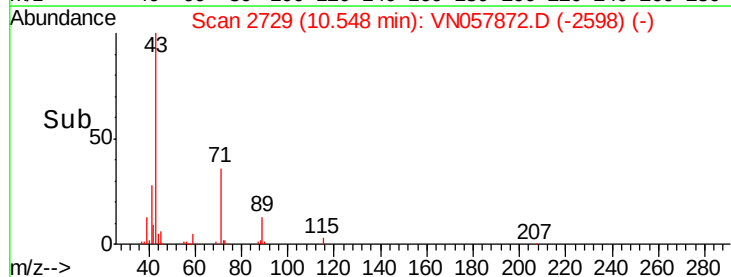
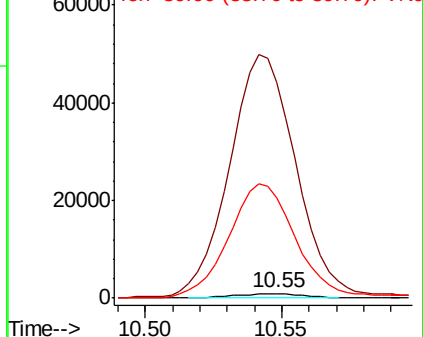


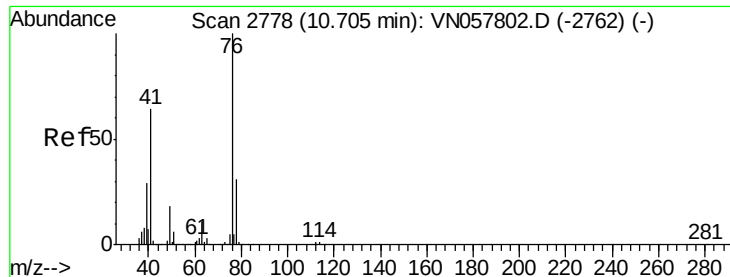
Abundance

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: 0.576 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

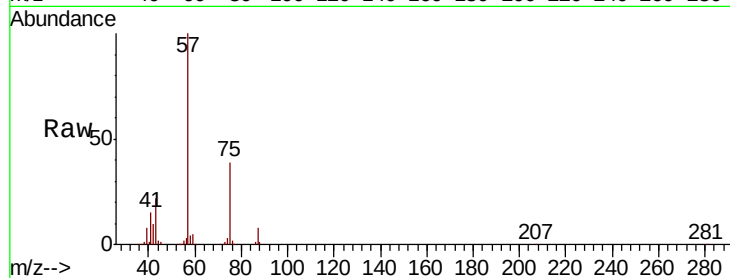
PAR-11-C4-(4)

Tgt Ion: 76 Resp: 4576

Ion Ratio Lower Upper

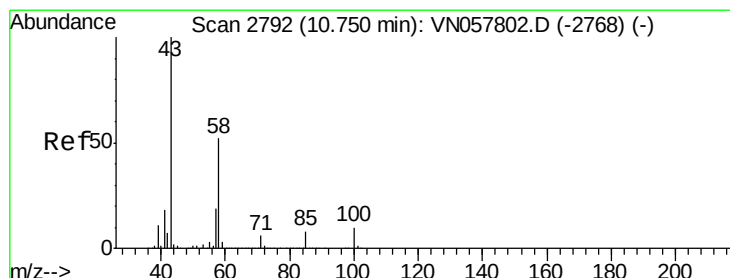
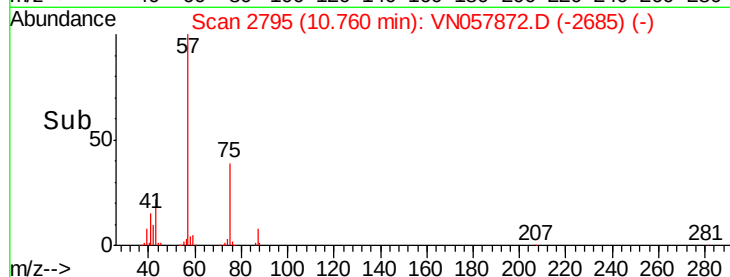
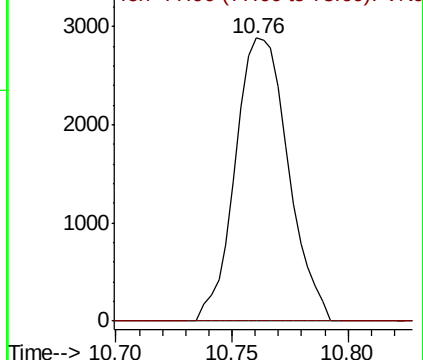
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 14.872 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057872.D

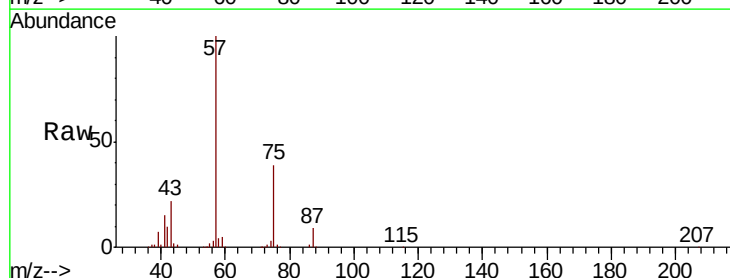
Acq: 10 Sep 2019 18:52

Tgt Ion: 43 Resp: 65785

Ion Ratio Lower Upper

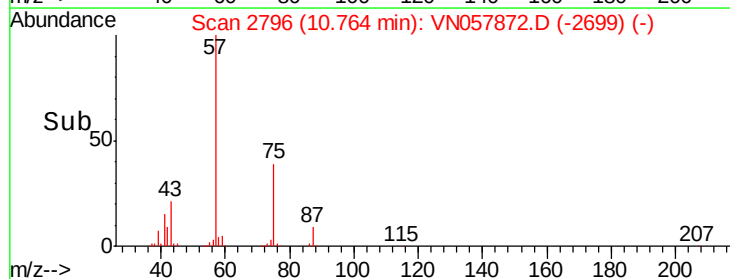
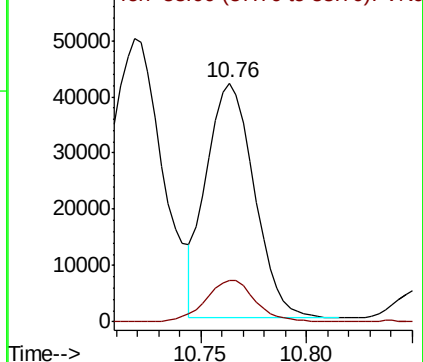
43 100

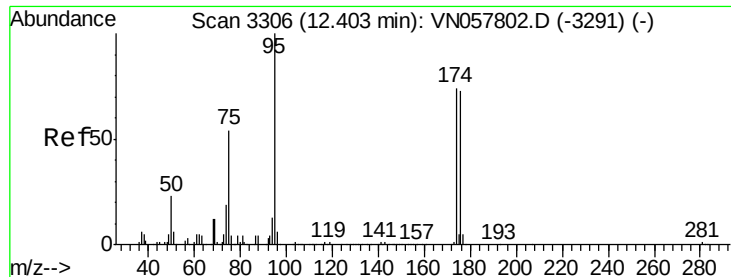
58 18.5 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.766 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(4)

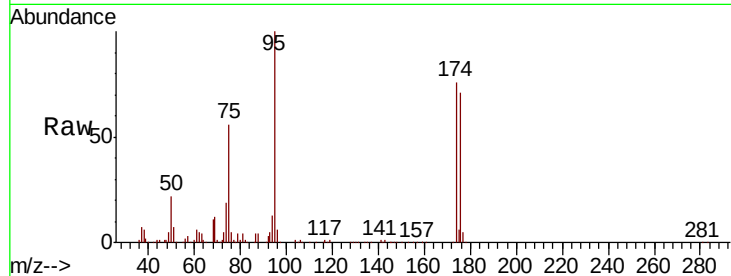
Tgt Ion: 95 Resp: 295799

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.2

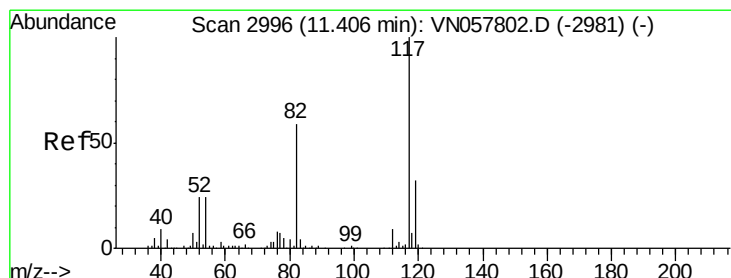
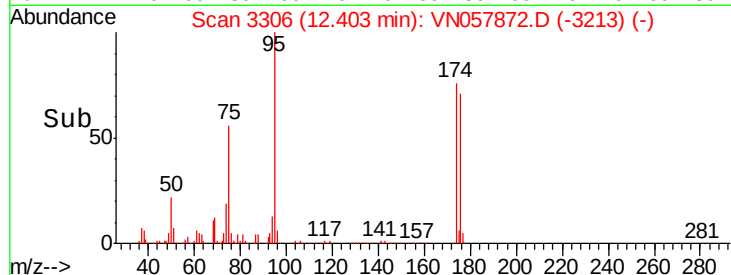
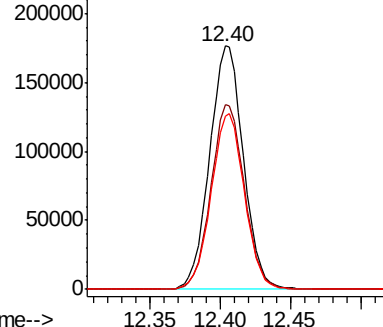
176 71.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057872.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN057872.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN057872.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

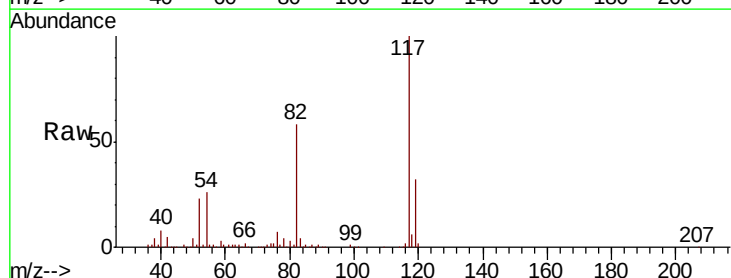
Tgt Ion: 117 Resp: 458027

Ion Ratio Lower Upper

117 100

82 58.0 47.2 70.8

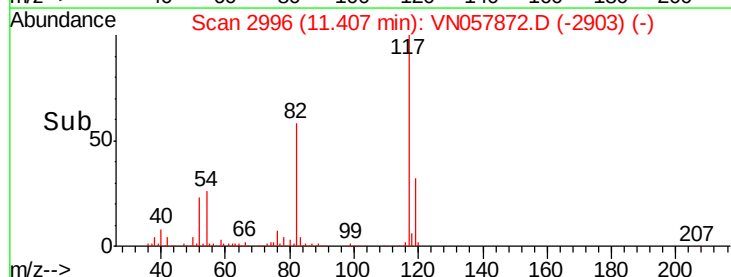
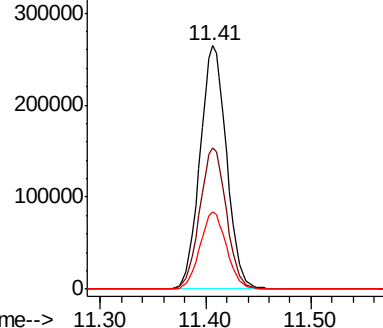
119 31.6 25.3 37.9

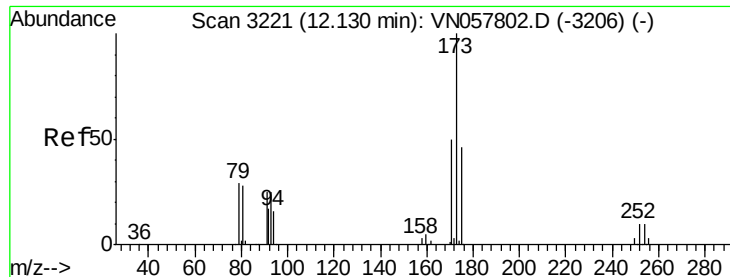


Abundance Ion 116.90 (116.60 to 117.60): VN057872.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057872.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057872.D (-2903) (-)





#71

Bromoform

Concen: 0.446 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampled :

PAR-11-C4-(4)

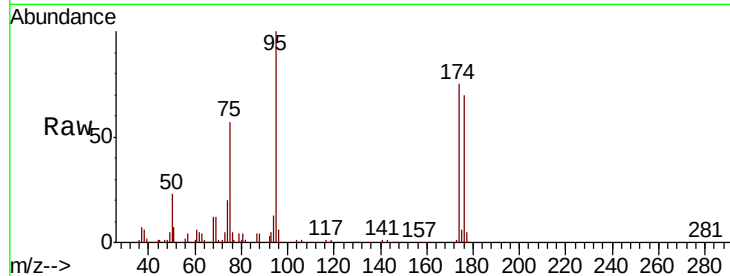
Tgt Ion:173 Resp: 1157

Ion Ratio Lower Upper

173 100

175 1240.4 23.5 70.6#

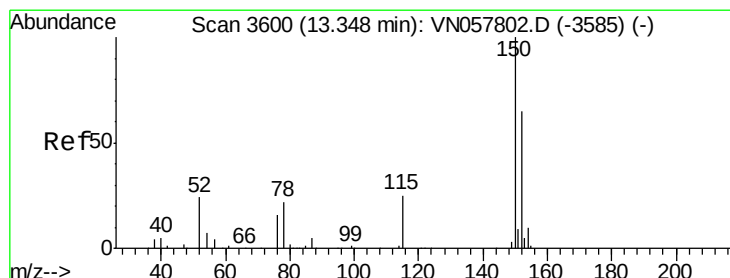
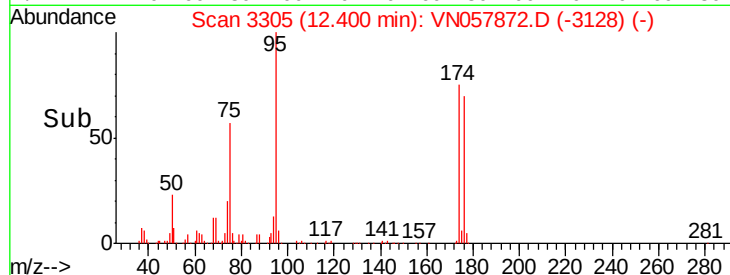
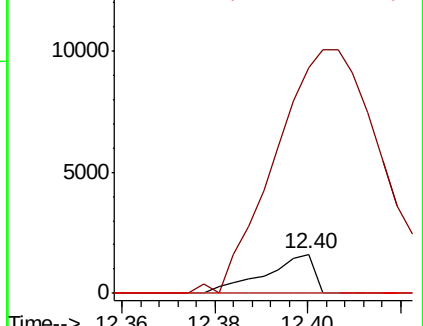
254 0.0 0.1 0.1#



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: VN057872.D

Acq: 10 Sep 2019 18:52

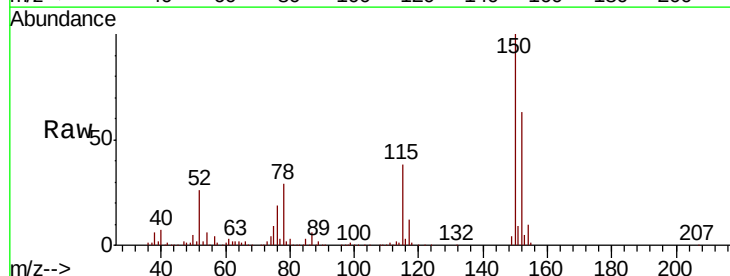
Tgt Ion:152 Resp: 234205

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

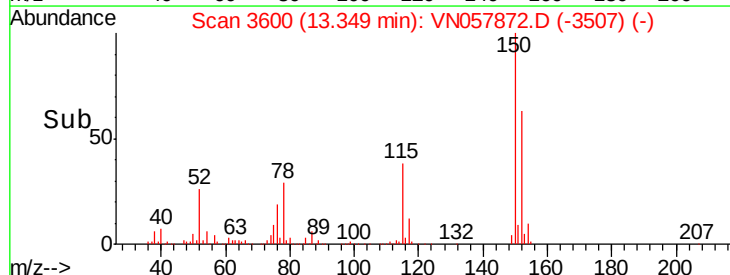
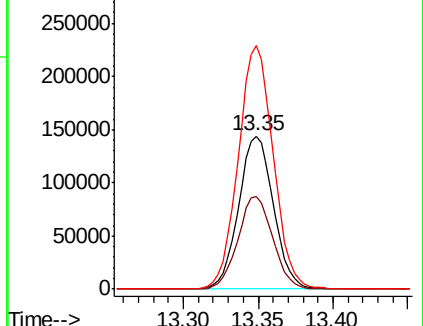
150 159.1 0.0 352.4

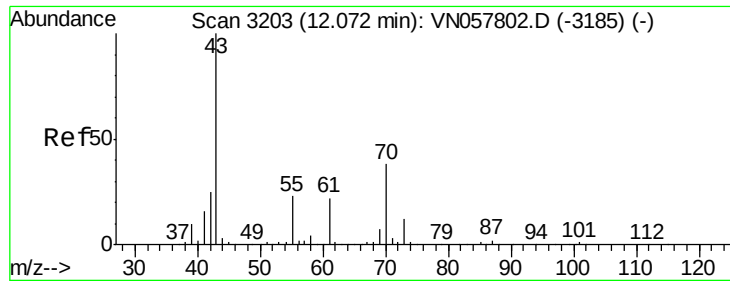


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.207 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(4)

Tgt Ion: 43 Resp: 1641

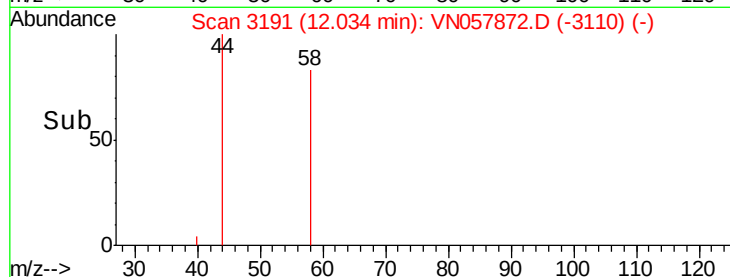
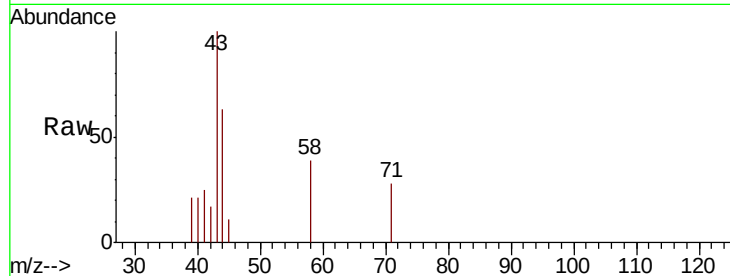
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#

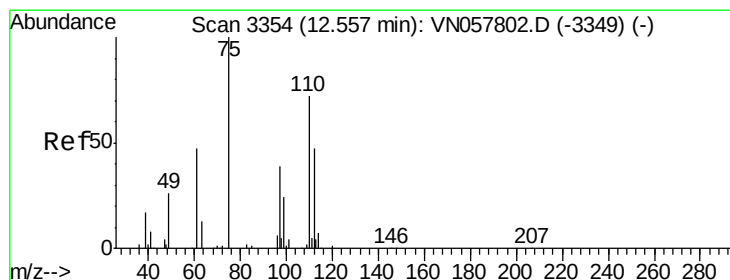
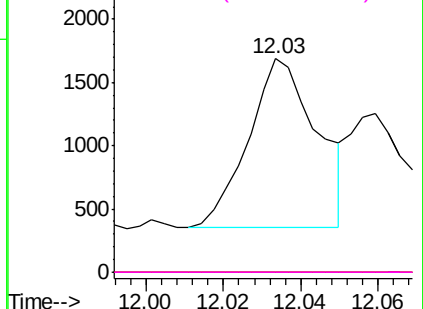


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.748 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057872.D

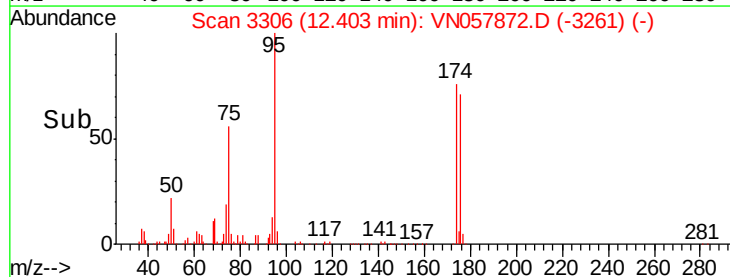
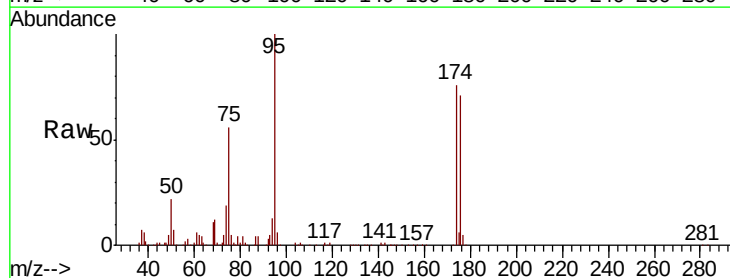
Acq: 10 Sep 2019 18:52

Tgt Ion: 75 Resp: 162908

Ion Ratio Lower Upper

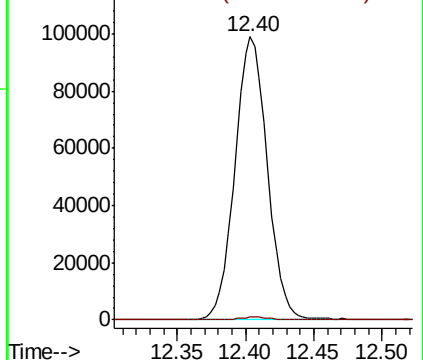
75 100

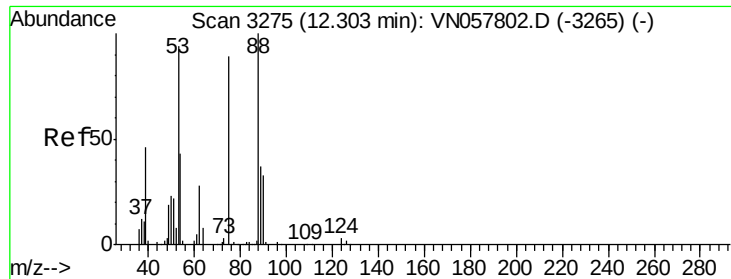
77 1.0 0.0 0.0#



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: 108.204 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C4-(4)

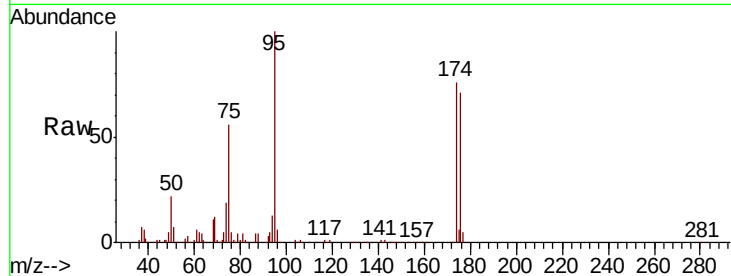
Tgt Ion: 75 Resp: 162908

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

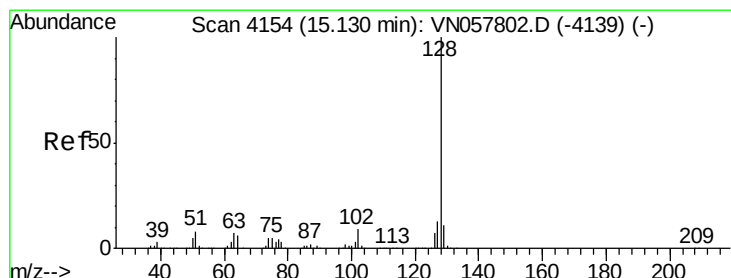
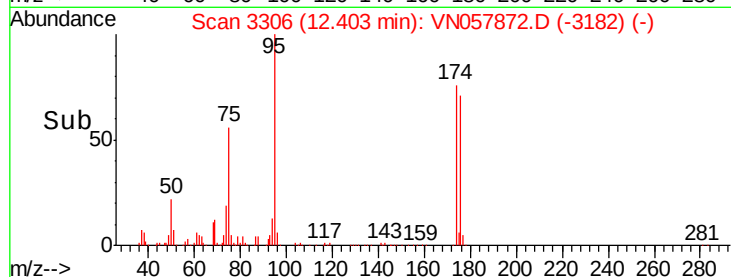
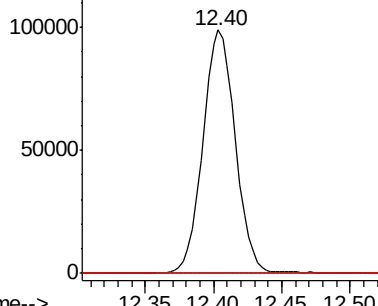
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057872.D

Acq: 10 Sep 2019 18:52

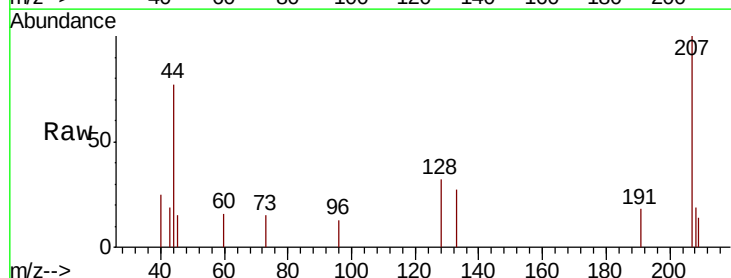
Tgt Ion: 128 Resp: 807

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): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)

