

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057877.D
 Acq On : 10 Sep 2019 20:42
 Operator : JC/SP
 Sample : K4623-33
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D1-(4)

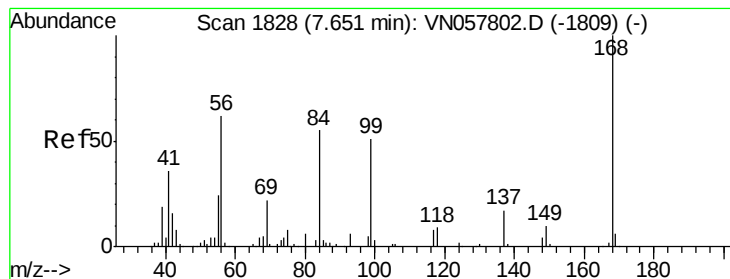
Quant Time: Sep 11 03:57:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	292271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	487964	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	462076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	232366	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	318961	53.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.76%	
35) Dibromofluoromethane	7.58	113	217928	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
50) Toluene-d8	10.09	98	909815	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	
62) 4-Bromofluorobenzene	12.40	95	290358	43.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	30	Below Cal	#	2
16) Acetone	3.80	43	12532	6.458	ug/l	91
18) Methyl Acetate	4.32	43	7733	1.495	ug/l #	82
20) Methylene Chloride	4.53	84	5958	0.391	ug/l	96
29) Tetrahydrofuran	7.19	42	455	0.263	ug/l #	34
31) Cyclohexane	7.65	56	7473	Below Cal	#	31
36) 1,1-Dichloropropene	7.65	75	26104	4.613	ug/l #	50
38) Carbon Tetrachloride	7.65	117	30789	5.959	ug/l #	16
43) Isopropyl Acetate	8.15	43	73850	7.511	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1396	0.282	ug/l #	44
48) Methyl methacrylate	9.17	41	4883	0.979	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	6889	1.184	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	34024	4.892	ug/l #	64
56) Ethyl methacrylate	10.54	69	1929	0.282	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5453	0.696	ug/l #	43
59) 2-Hexanone	10.76	43	82778	18.980	ug/l #	54
71) Bromoform	12.40	173	1066	0.407	ug/l #	1
74) N-amyl acetate	12.04	43	2422	0.309	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	162294	30.875	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	162294	108.649	ug/l #	6
95) Naphthalene	15.13	128	502	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

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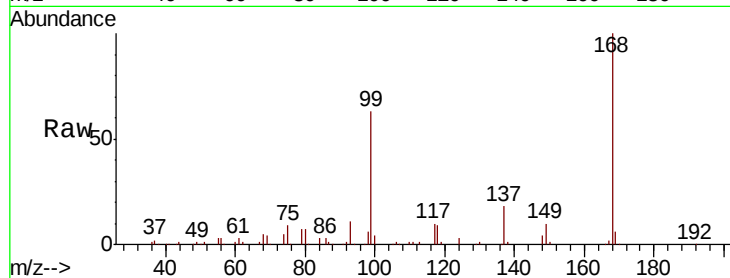
PAR-11-D1-(4)

Tgt Ion:168 Resp: 292271

Ion Ratio Lower Upper

168 100

99 63.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

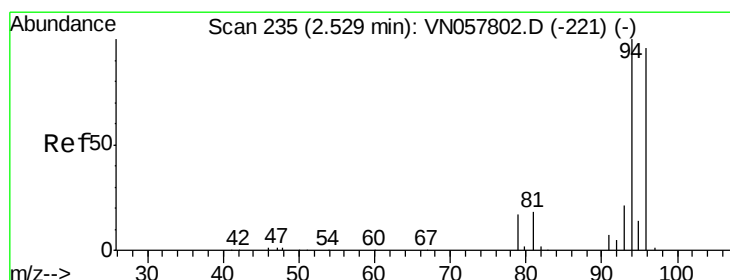
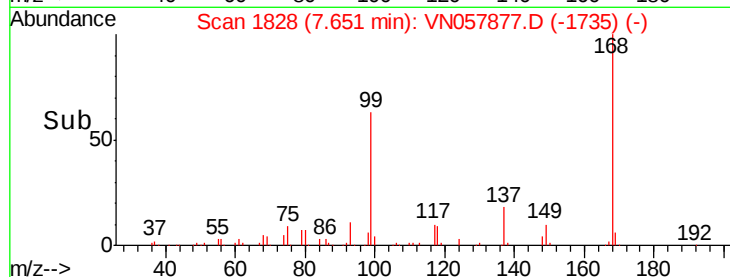
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 245

Delta R.T. 0.03 min

Lab File: VN057877.D

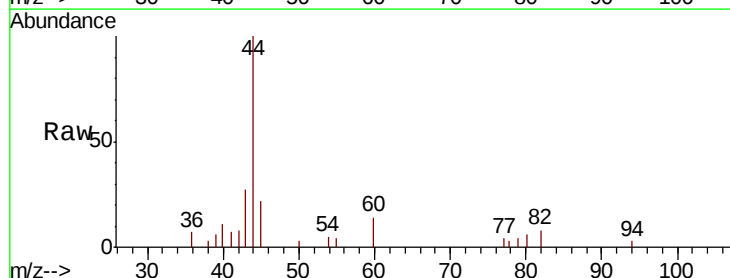
Acq: 10 Sep 2019 20:42

Tgt Ion: 94 Resp: 30

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

200

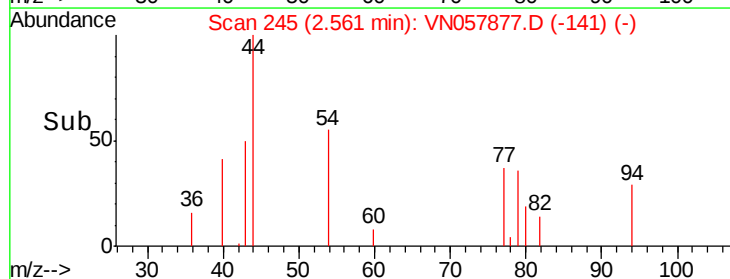
150

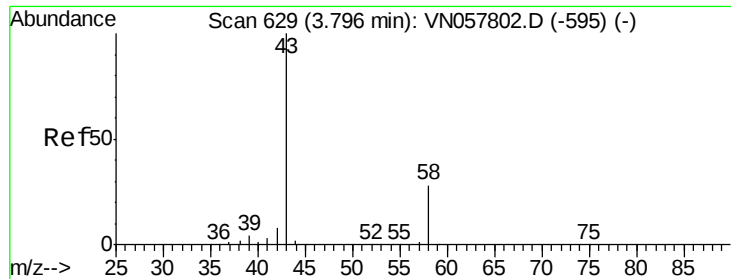
100

50

0

Time-->





#16

Acetone

Concen: 6.458 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

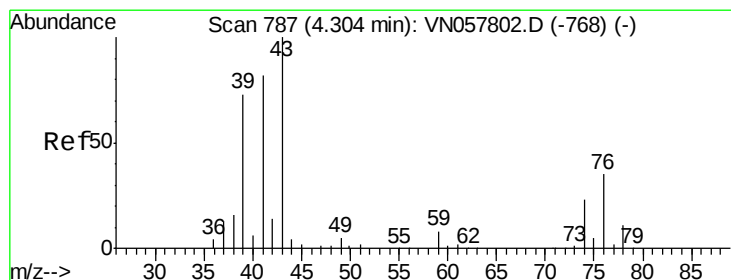
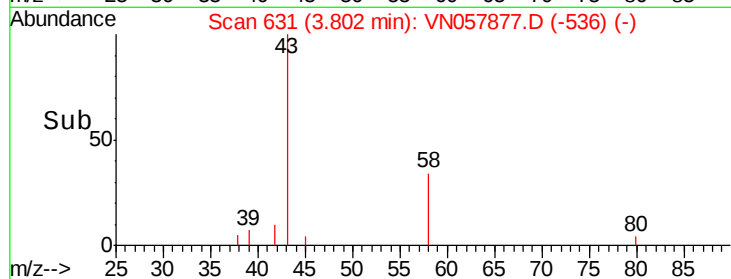
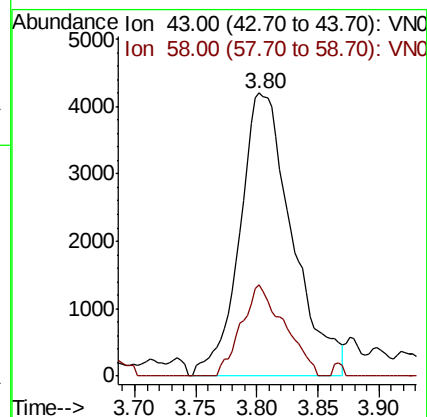
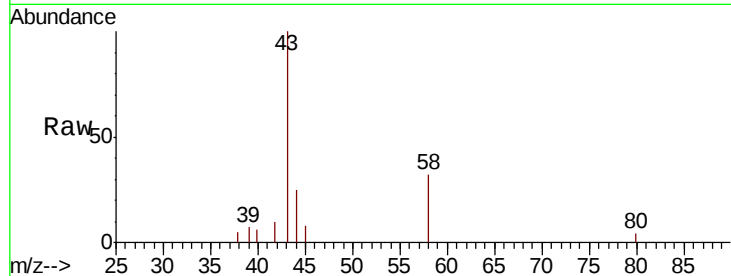
PAR-11-D1-(4)

Tgt Ion: 43 Resp: 12532

Ion Ratio Lower Upper

43 100

58 32.3 22.2 33.2



#18

Methyl Acetate

Concen: 1.495 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.02 min

Lab File: VN057877.D

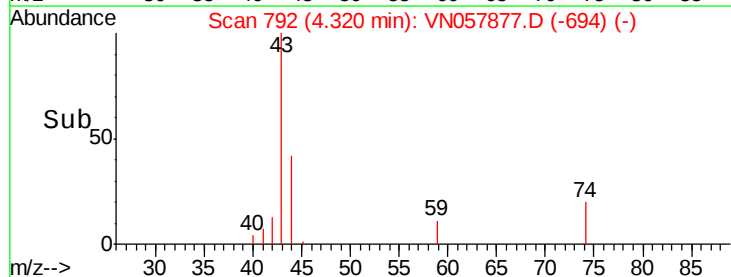
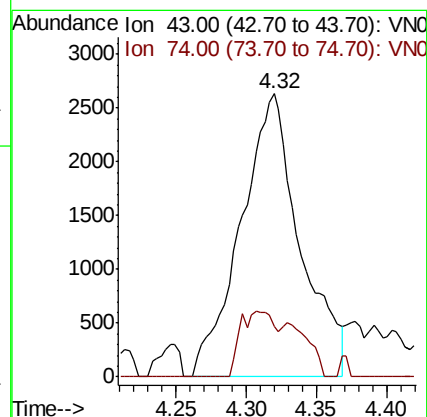
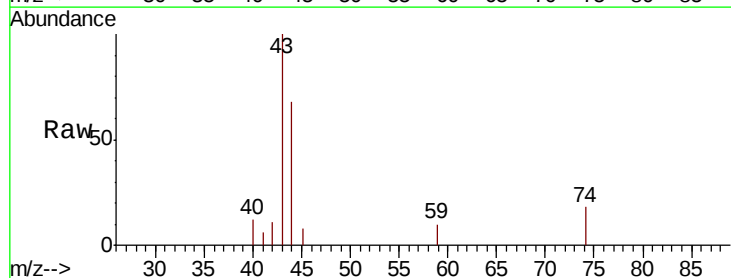
Acq: 10 Sep 2019 20:42

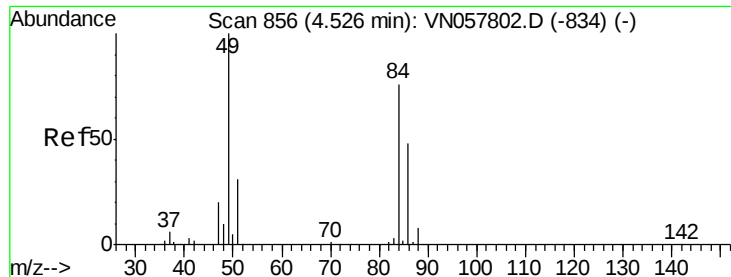
Tgt Ion: 43 Resp: 7733

Ion Ratio Lower Upper

43 100

74 13.6 17.9 26.9#

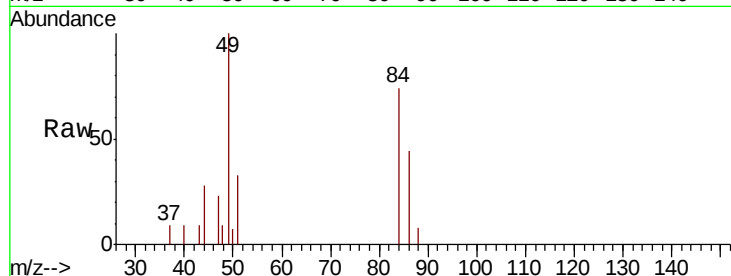




#20
Methylene Chloride
Concen: 0.391 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D1-(4)

Tgt Ion:	84	Resp:	5958
Ion	Ratio	Lower	Upper
84	100		
49	135.9	104.8	157.2
51	44.3	33.0	49.4
86	59.6	50.5	75.7



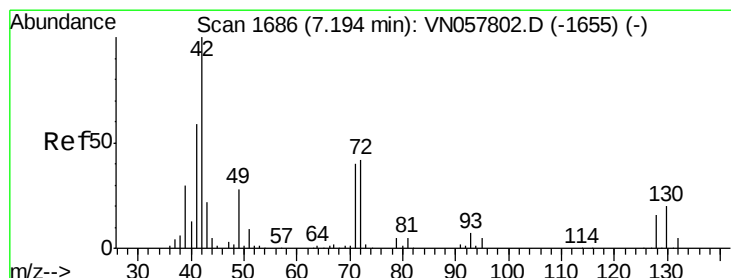
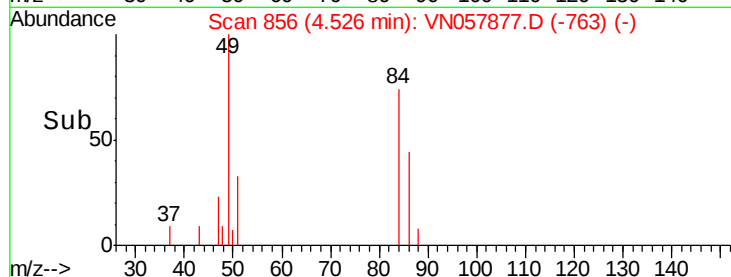
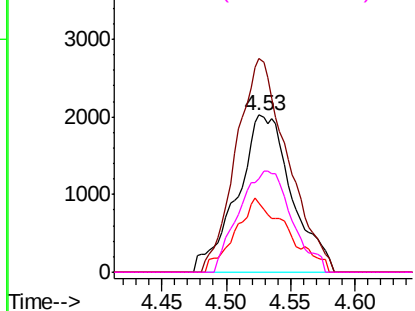
Abundance

Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

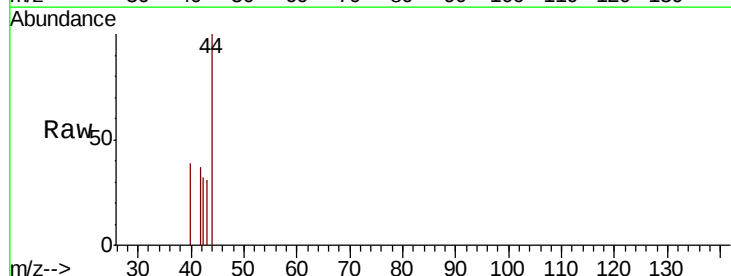
Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#29
Tetrahydrofuran
Concen: 0.263 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Tgt Ion:	42	Resp:	455
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	31.9	47.9#

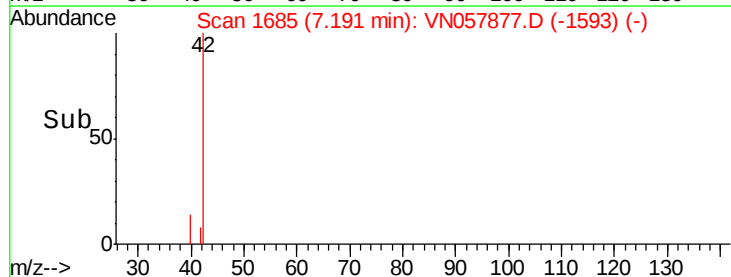
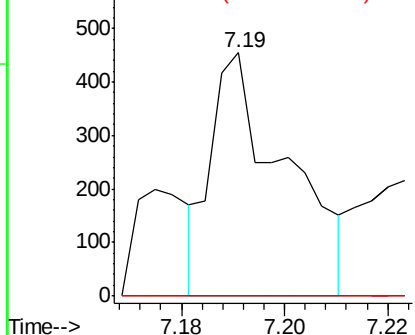


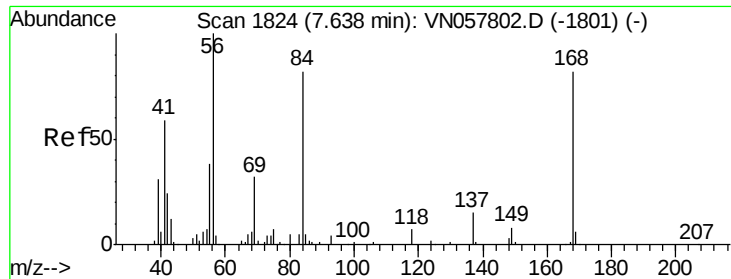
Abundance

Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC

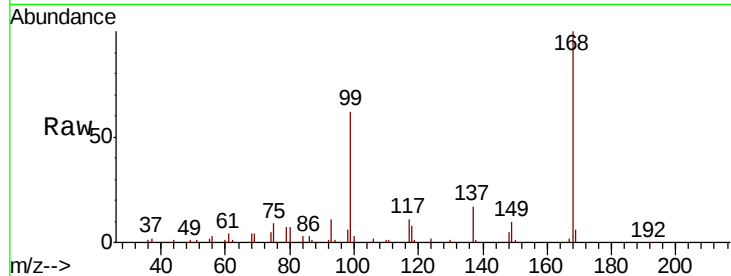




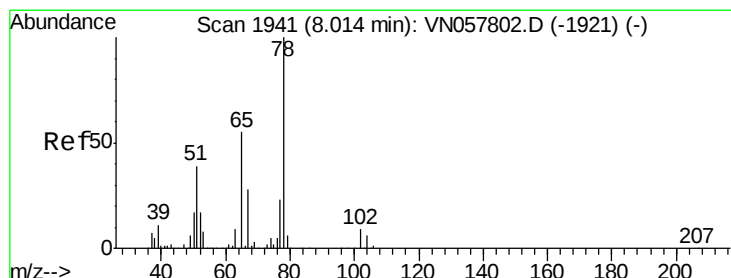
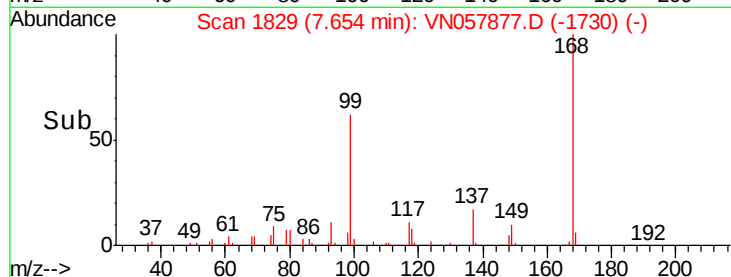
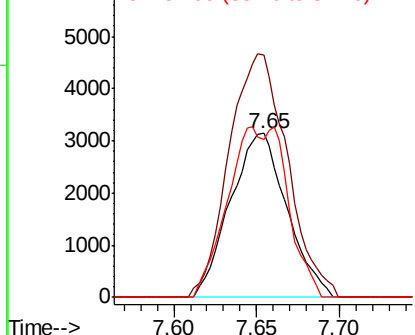
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Instrument :
MSVOA_N
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Tgt Ion: 56 Resp: 7473
Ion Ratio Lower Upper
56 100
69 147.3 25.9 38.9#
84 96.1 65.6 98.4

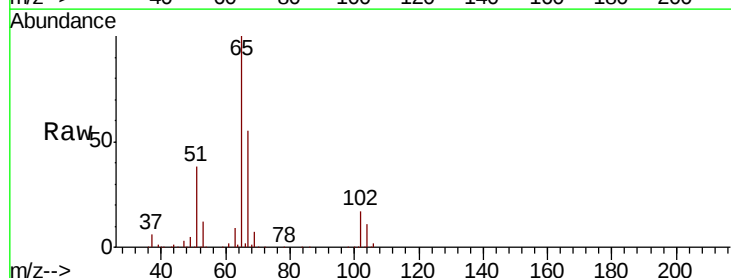


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

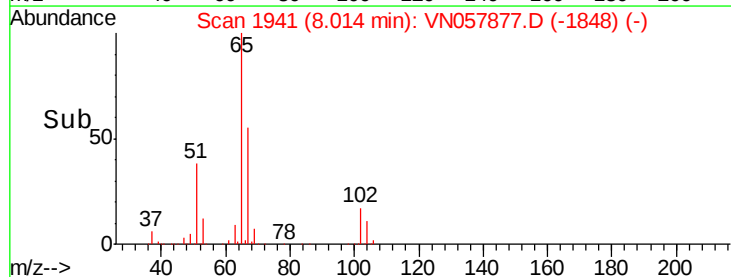
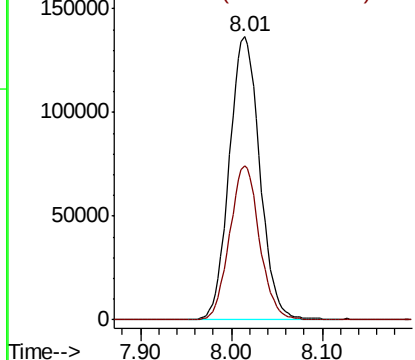


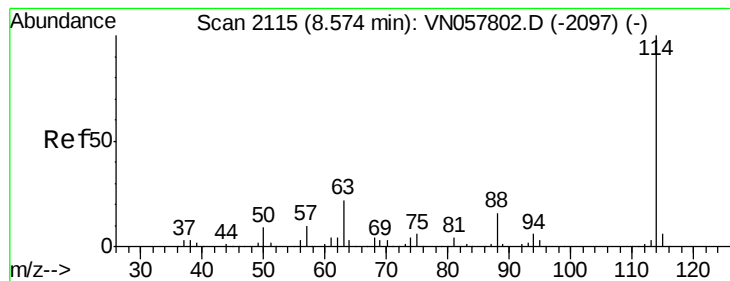
#33
1,2-Dichloroethane-d4
Concen: 53.881 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Tgt Ion: 65 Resp: 318961
Ion Ratio Lower Upper
65 100
67 53.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(4)

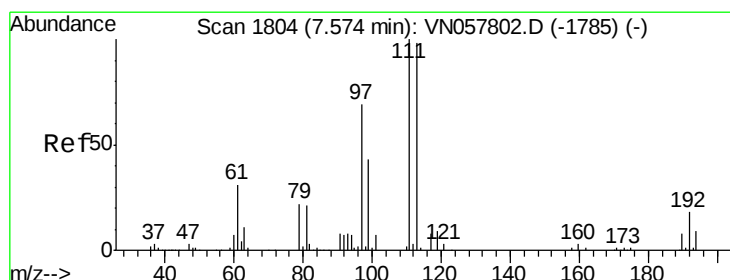
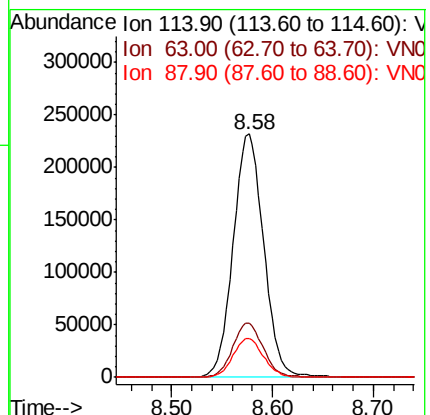
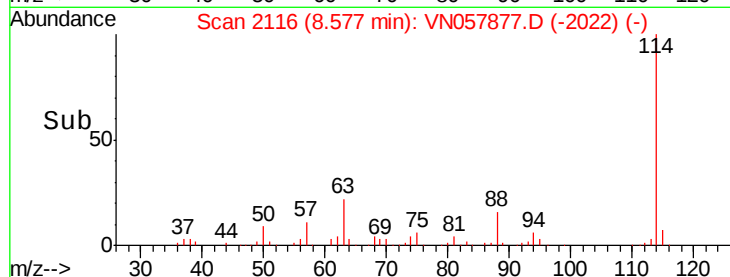
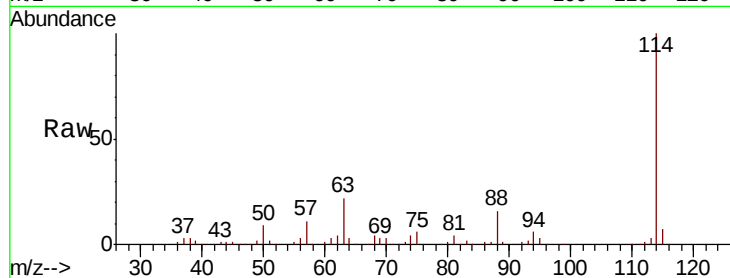
Tgt Ion:114 Resp: 487964

Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.0

88 16.2 0.0 31.4



#35

Dibromofluoromethane

Concen: 48.389 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

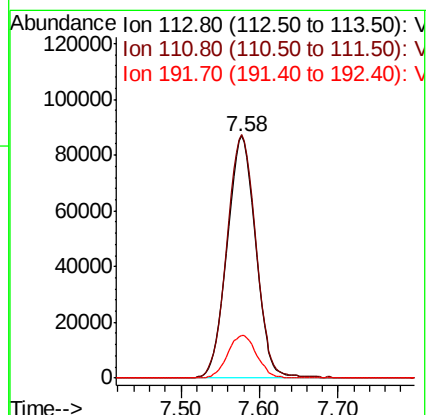
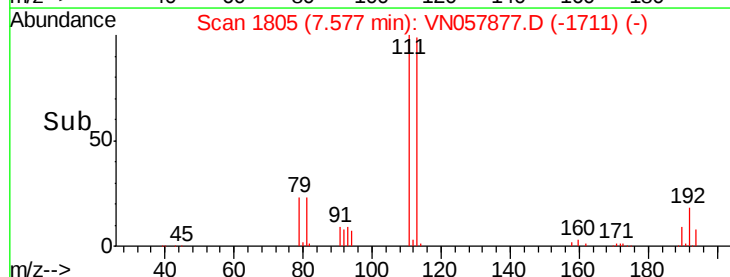
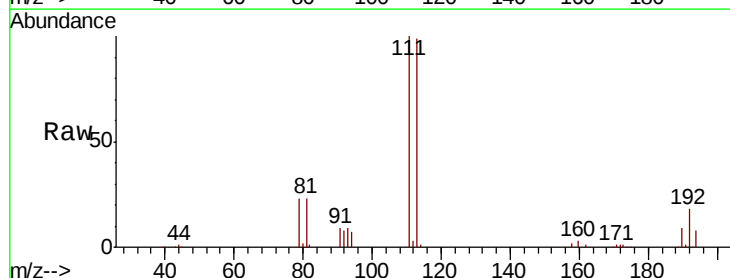
Tgt Ion:113 Resp: 217928

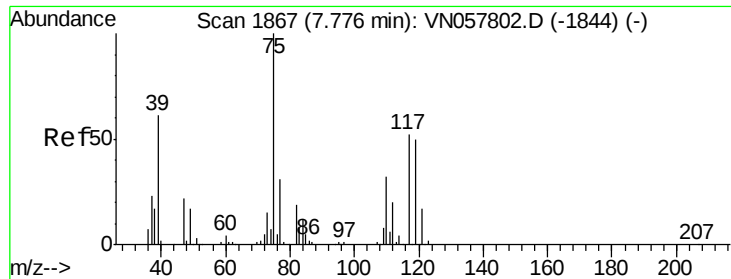
Ion Ratio Lower Upper

113 100

111 102.2 81.3 121.9

192 18.0 14.6 22.0

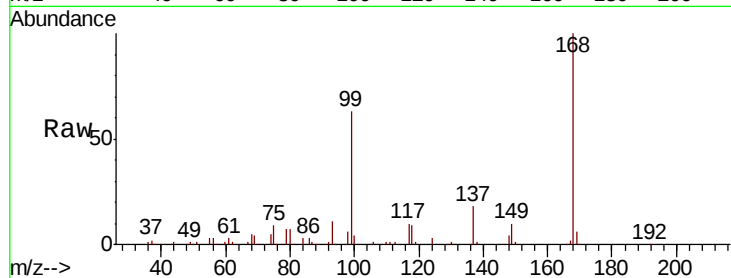




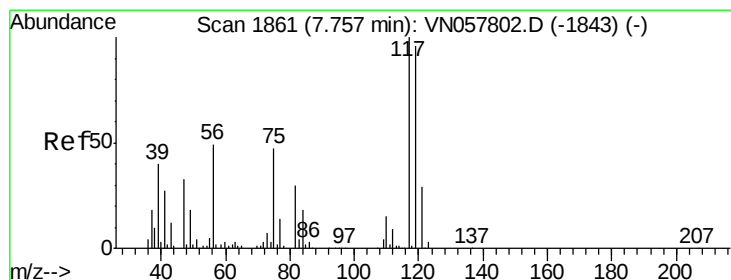
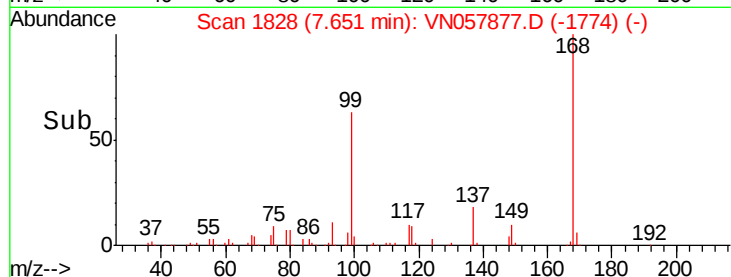
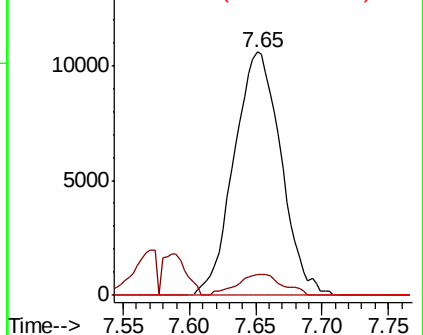
#36
 1,1-Dichloropropene
 Concen: 4.613 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057877.D
 Acq: 10 Sep 2019 20:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D1-(4)

Tgt Ion: 75 Resp: 26104
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.3 48.9#
 77 0.0 25.0 37.4#

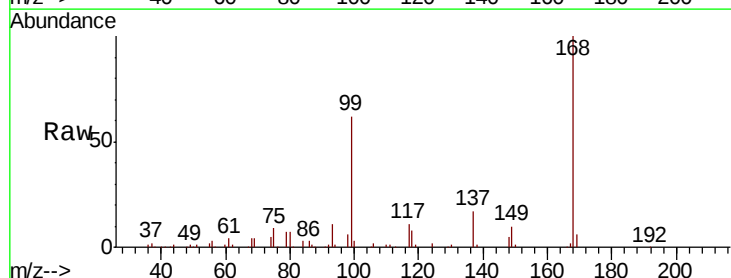


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

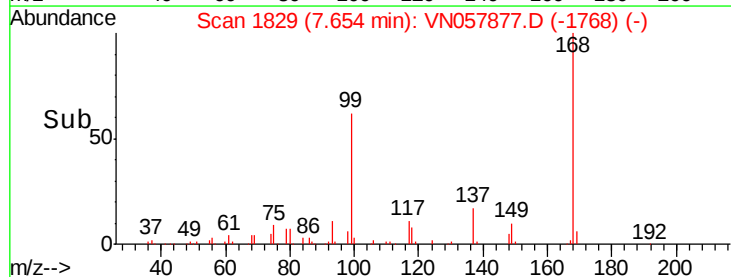
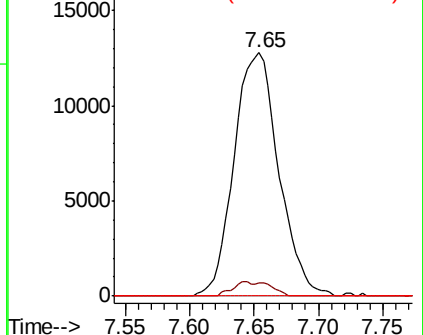


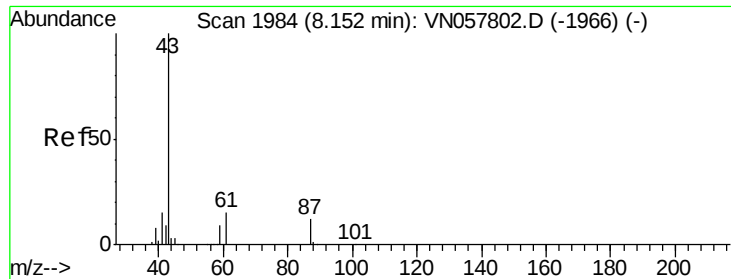
#38
 Carbon Tetrachloride
 Concen: 5.959 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057877.D
 Acq: 10 Sep 2019 20:42

Tgt Ion: 117 Resp: 30789
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.9 115.3#
 121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 7.511 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(4)

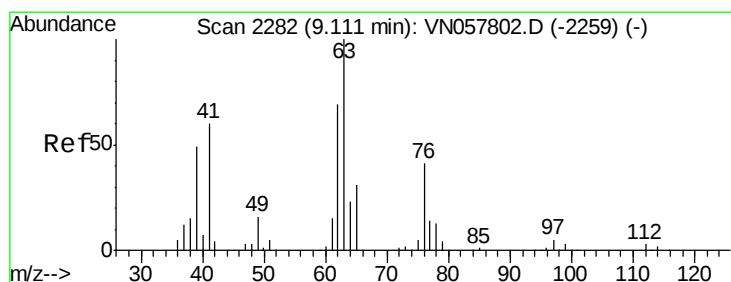
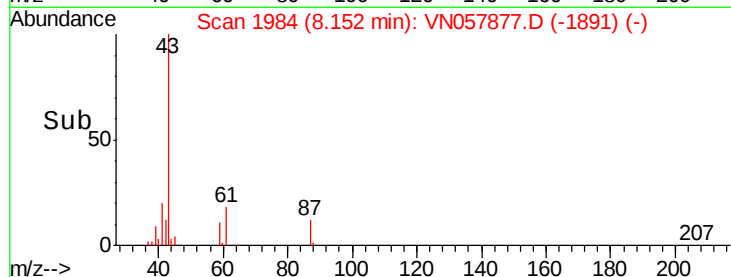
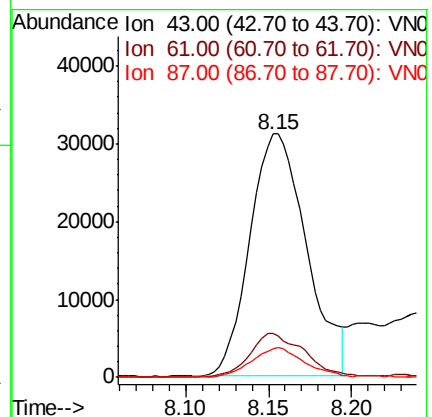
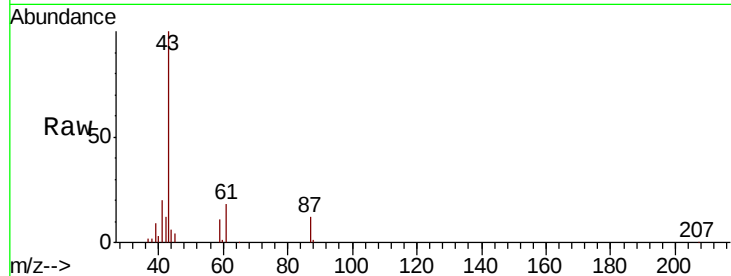
Tgt Ion: 43 Resp: 73850

Ion Ratio Lower Upper

43 100

61 17.5 20.1 30.1#

87 11.3 9.5 14.3



#45

1,2-Dichloropropane

Concen: 0.282 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057877.D

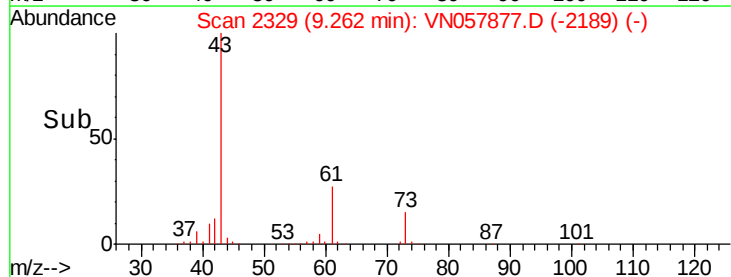
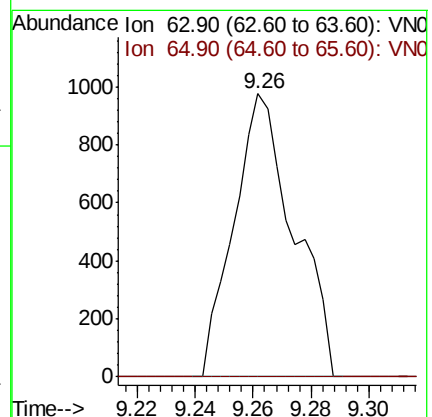
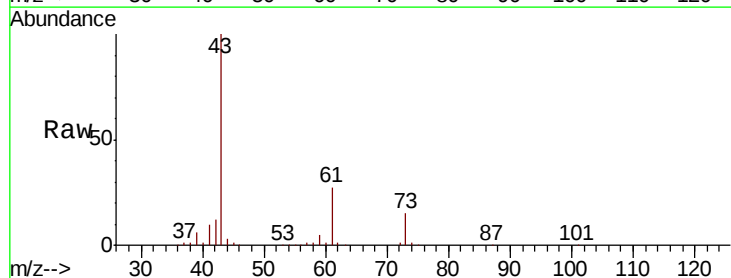
Acq: 10 Sep 2019 20:42

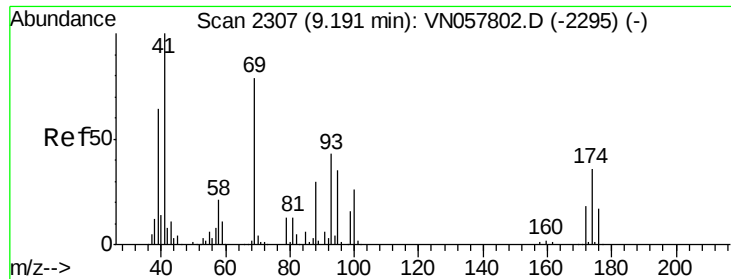
Tgt Ion: 63 Resp: 1396

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#

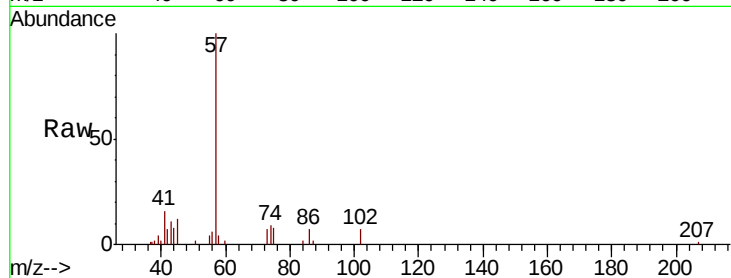




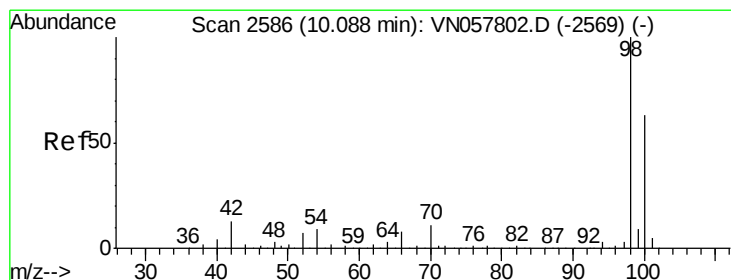
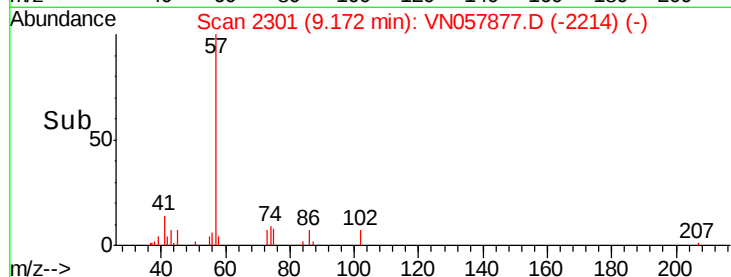
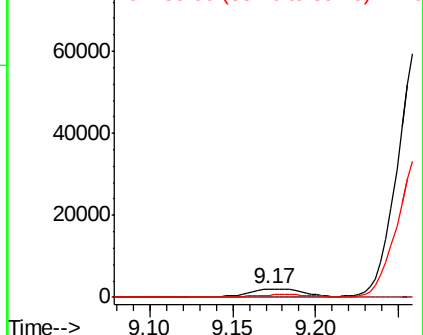
#48
Methyl methacrylate
Concen: 0.979 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D1-(4)

Tgt Ion: 41 Resp: 4883
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

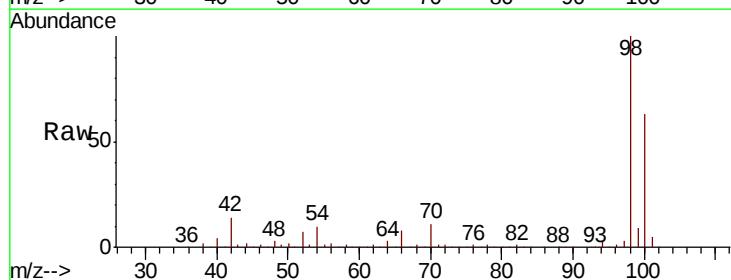


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

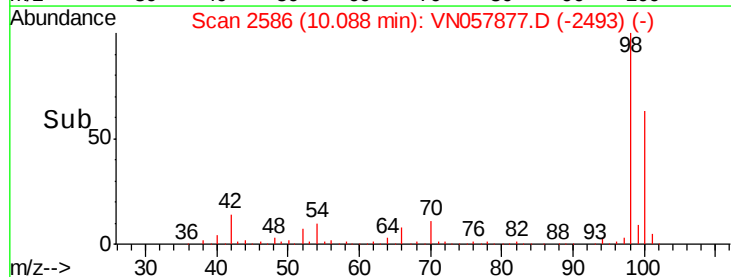
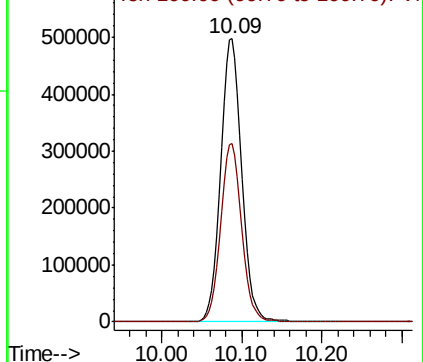


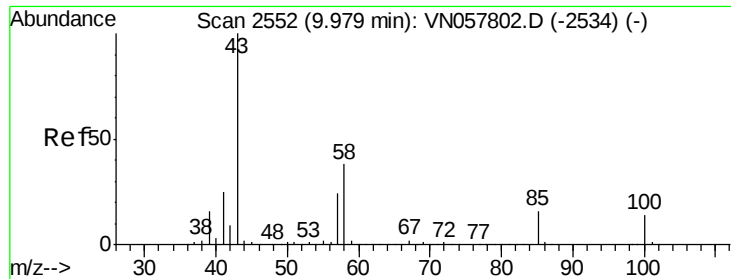
#50
Toluene-d8
Concen: 52.032 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Tgt Ion: 98 Resp: 909815
Ion Ratio Lower Upper
98 100
100 62.7 50.3 75.5



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





#51

4-Methyl-2-Pentanone

Concen: 1.184 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

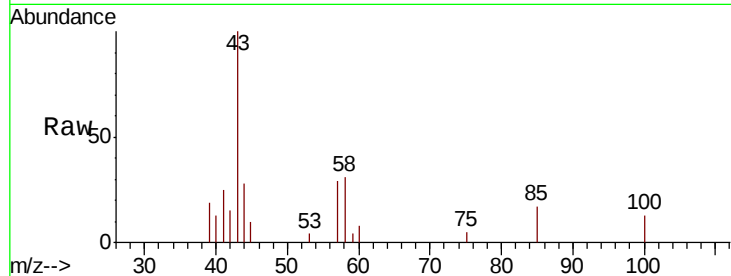
PAR-11-D1-(4)

Tgt Ion: 43 Resp: 6889

Ion Ratio Lower Upper

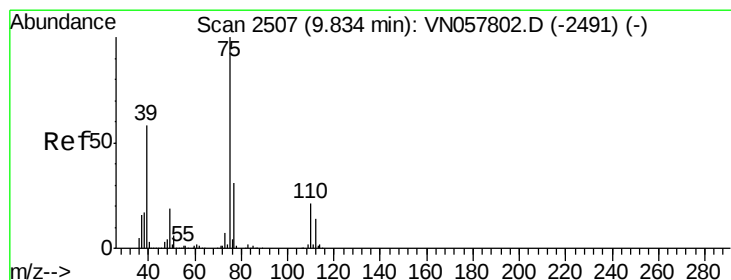
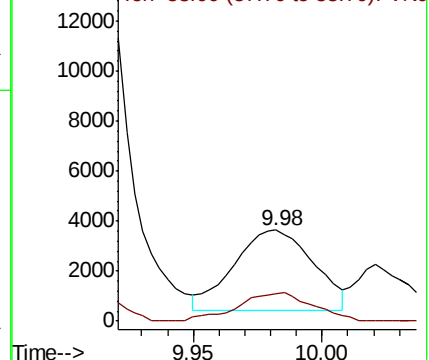
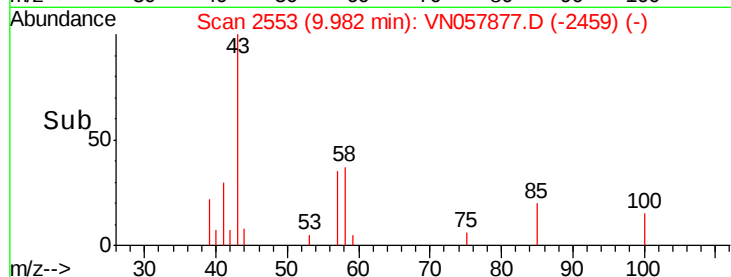
43 100

58 33.7 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.892 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

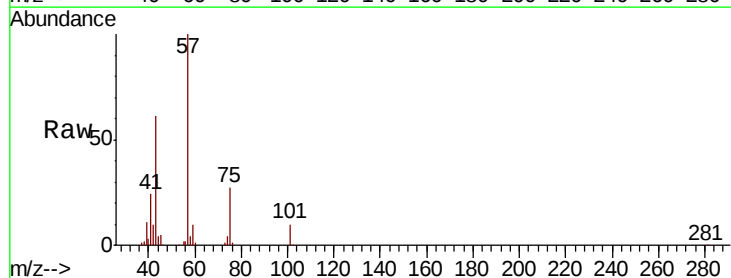
Tgt Ion: 75 Resp: 34024

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

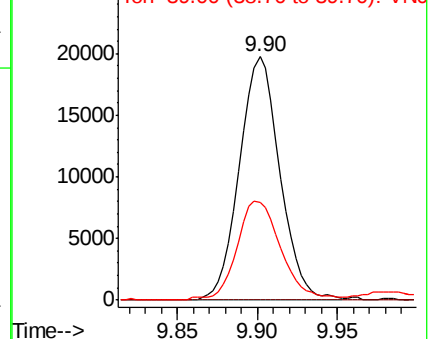
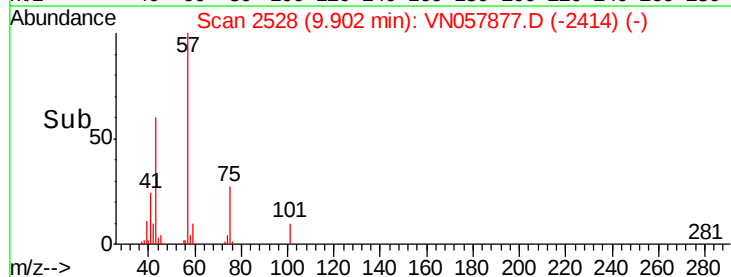
39 39.4 46.2 69.4#

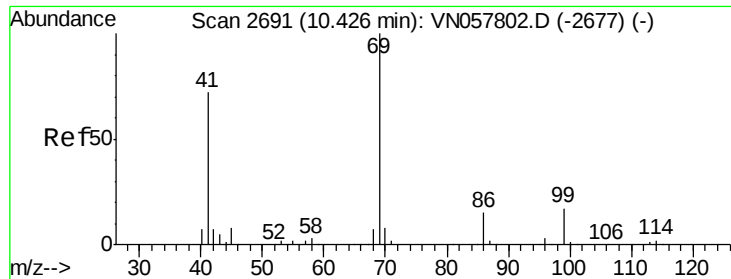


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.282 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(4)

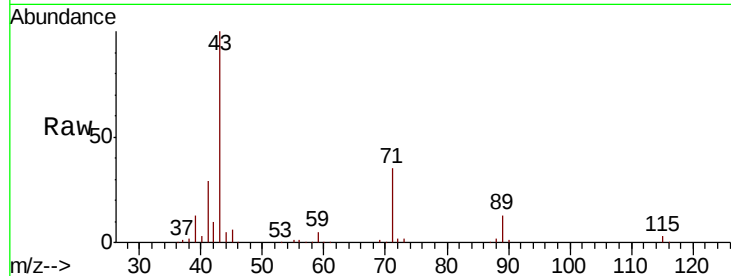
Tgt Ion: 69 Resp: 1929

Ion Ratio Lower Upper

69 100

41 4603.1 56.7 85.1#

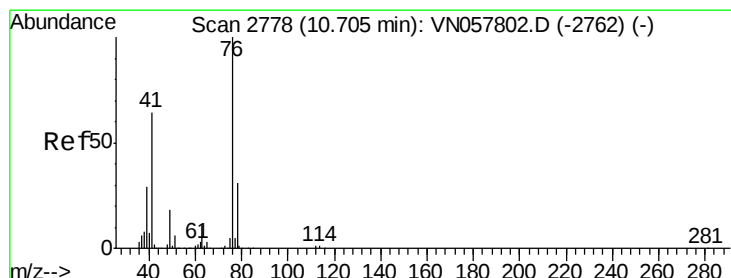
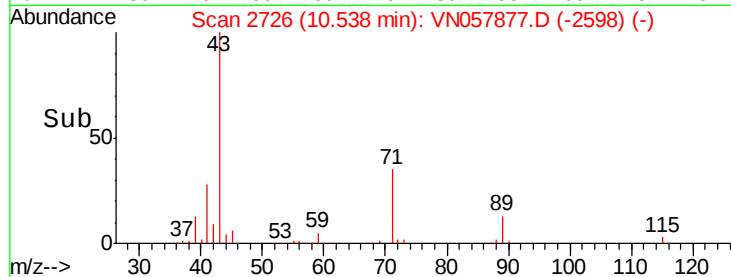
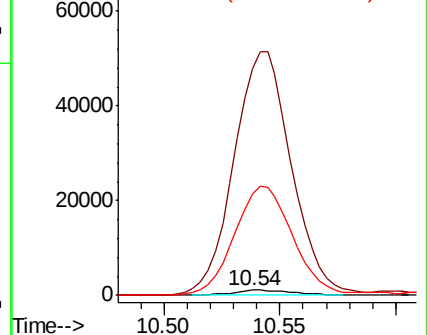
39 2088.1 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC



#57

1,3-Dichloropropane

Concen: 0.696 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057877.D

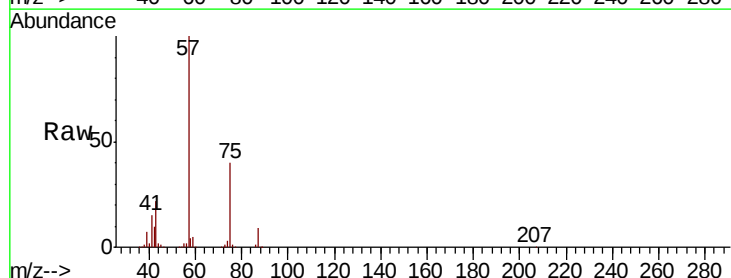
Acq: 10 Sep 2019 20:42

Tgt Ion: 76 Resp: 5453

Ion Ratio Lower Upper

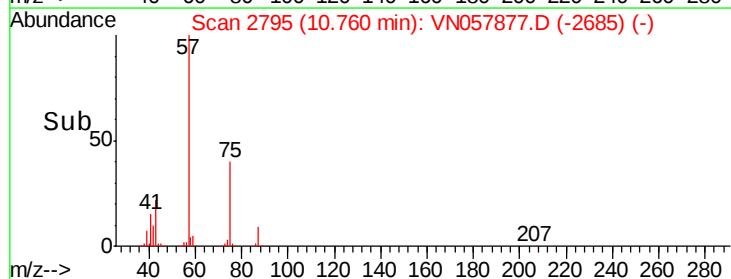
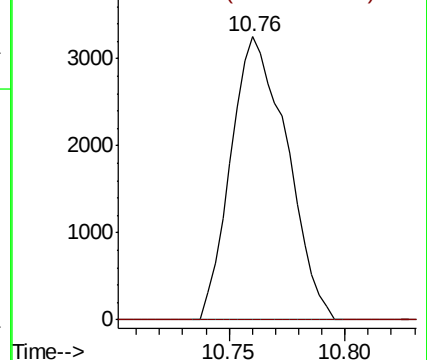
76 100

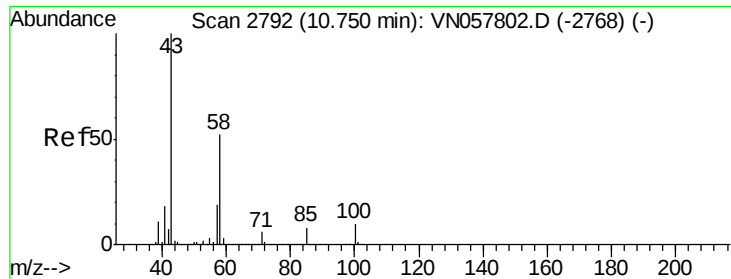
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

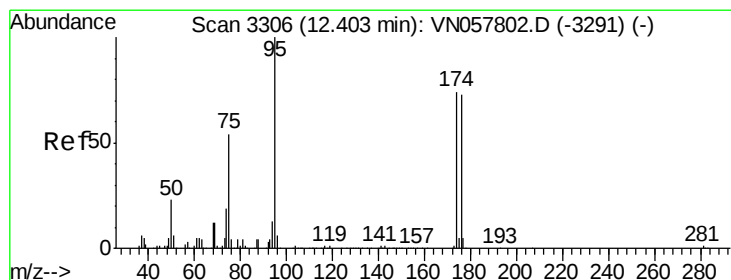
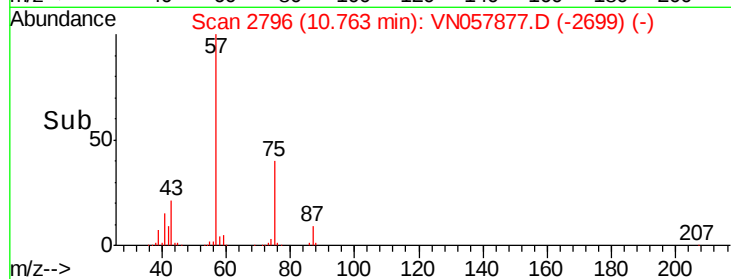
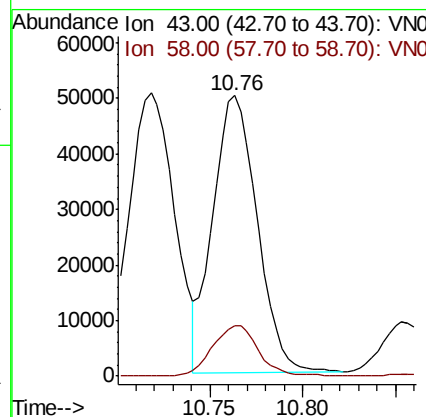
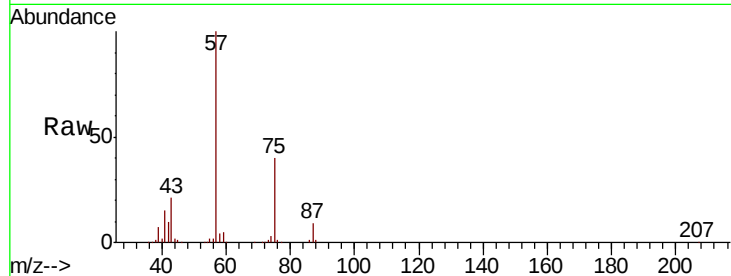




#59
2-Hexanone
Concen: 18.980 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

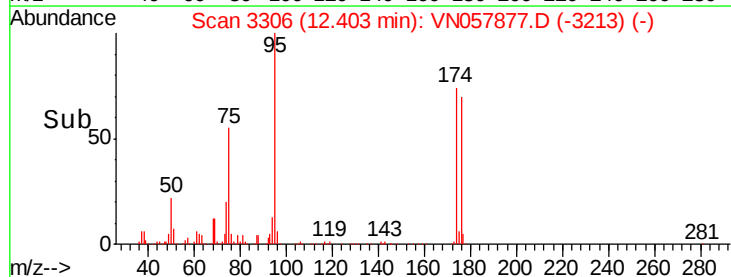
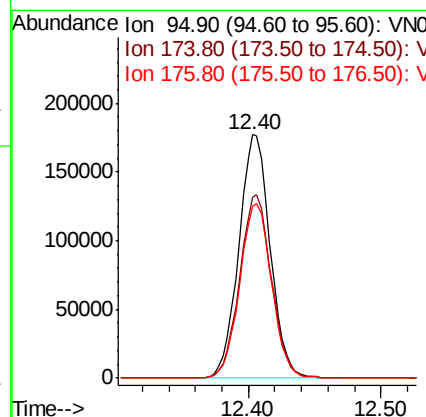
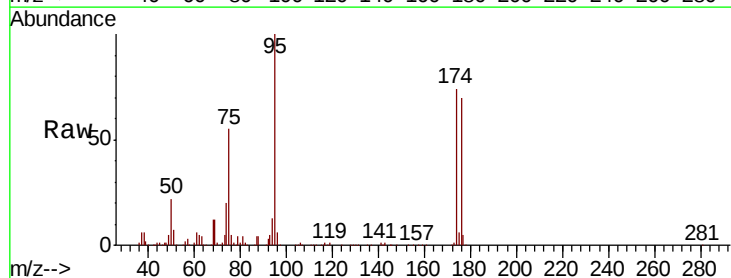
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D1-(4)

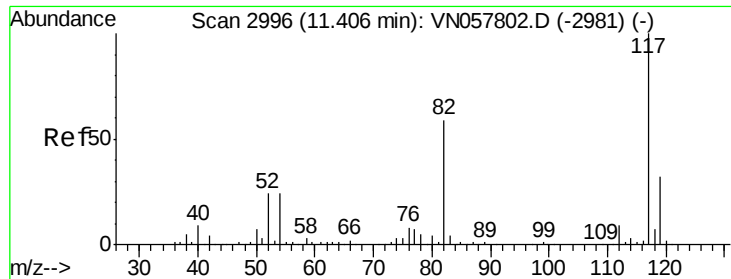
Tgt Ion: 43 Resp: 82778
Ion Ratio Lower Upper
43 100
58 18.9 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 43.573 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Tgt Ion: 95 Resp: 290358
Ion Ratio Lower Upper
95 100
174 76.3 0.0 150.2
176 73.1 0.0 146.0

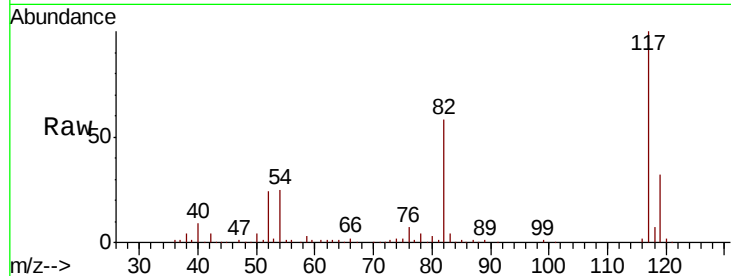




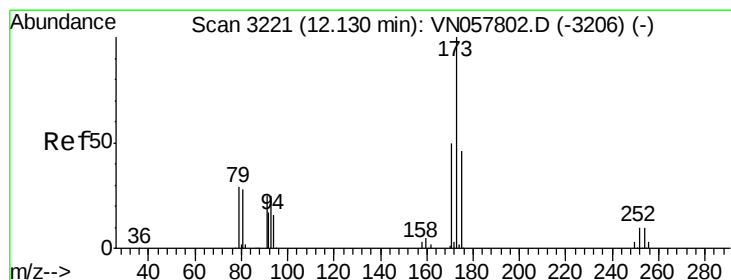
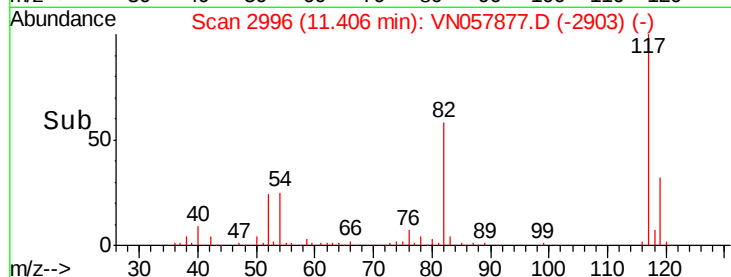
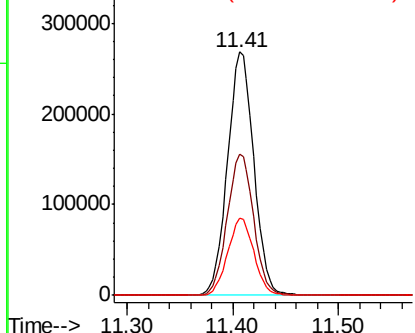
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D1-(4)

Tgt Ion:117 Resp: 462076
Ion Ratio Lower Upper
117 100
82 57.9 47.2 70.8
119 31.5 25.3 37.9

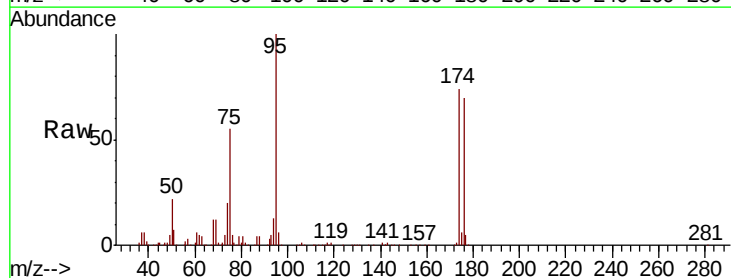


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

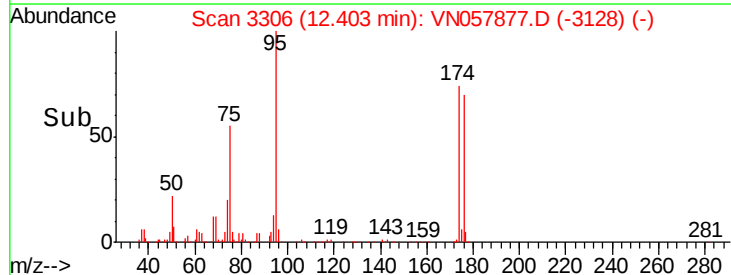
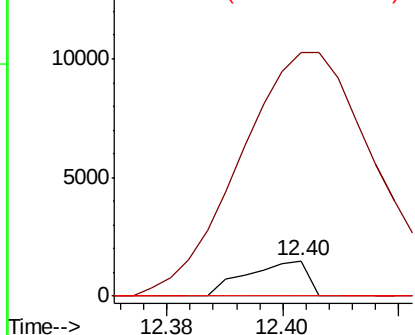


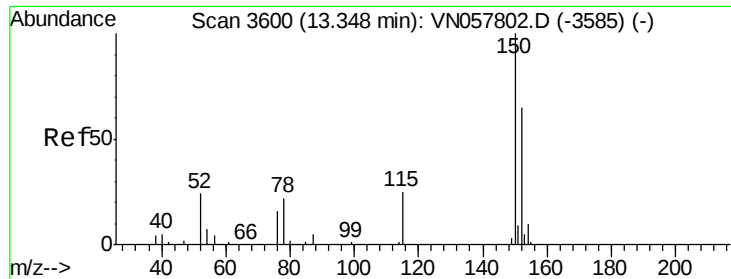
#71
Bromoform
Concen: 0.407 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN057877.D
Acq: 10 Sep 2019 20:42

Tgt Ion:173 Resp: 1066
Ion Ratio Lower Upper
173 100
175 1383.9 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: VN057877.D

Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(4)

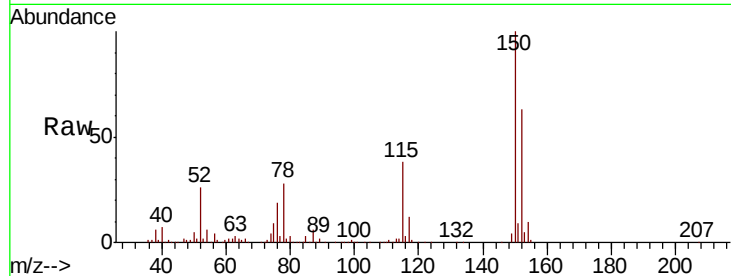
Tgt Ion:152 Resp: 232366

Ion Ratio Lower Upper

152 100

115 61.6 30.3 91.0

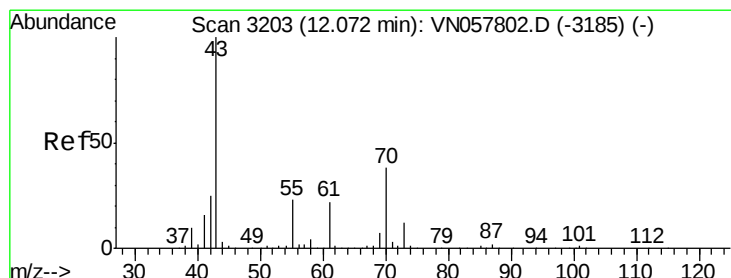
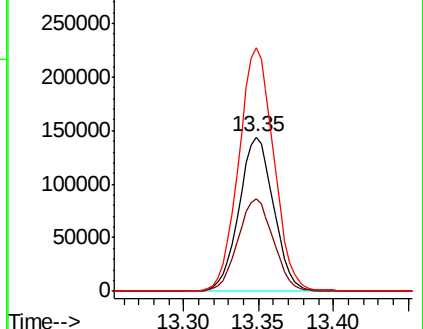
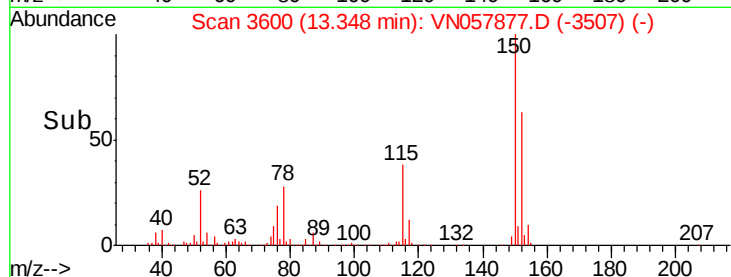
150 159.7 0.0 352.4



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: 0.309 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

Tgt Ion: 43 Resp: 2422

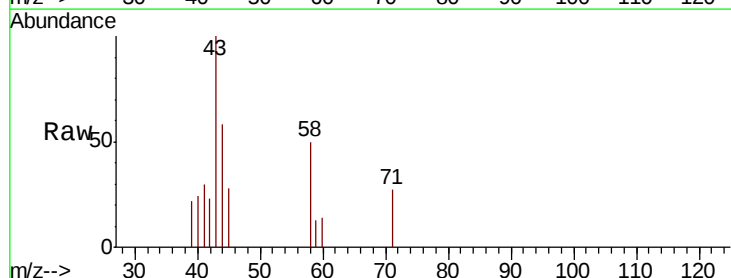
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#

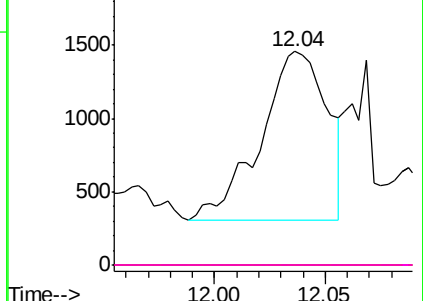
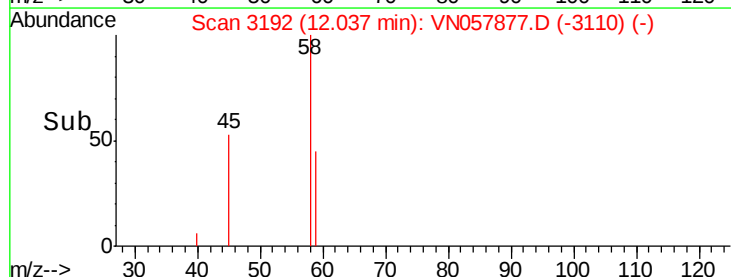


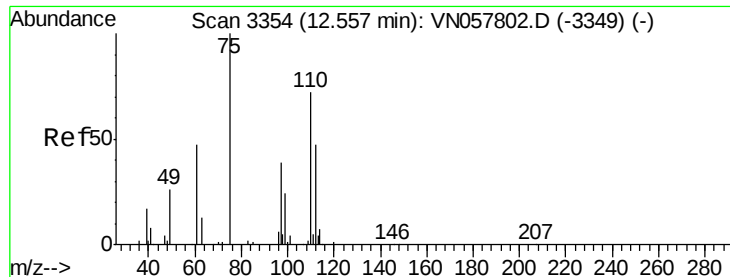
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.875 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

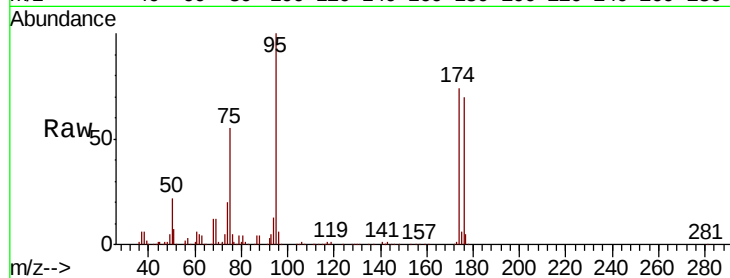
PAR-11-D1-(4)

Tgt Ion: 75 Resp: 162294

Ion Ratio Lower Upper

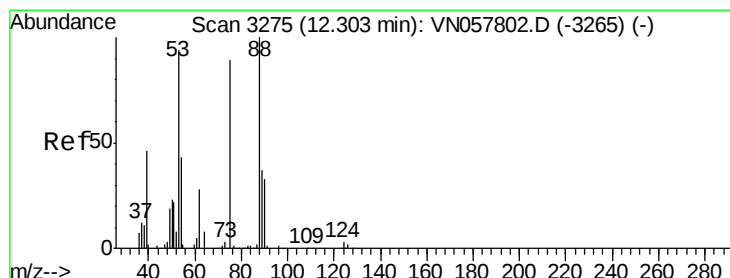
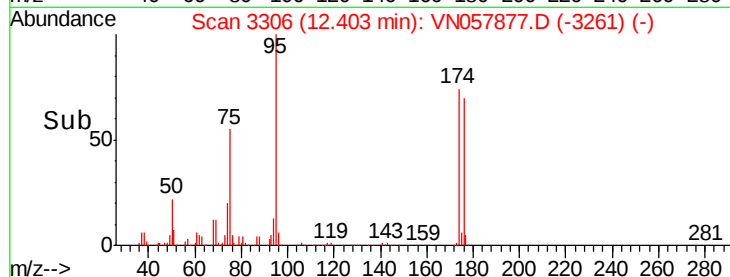
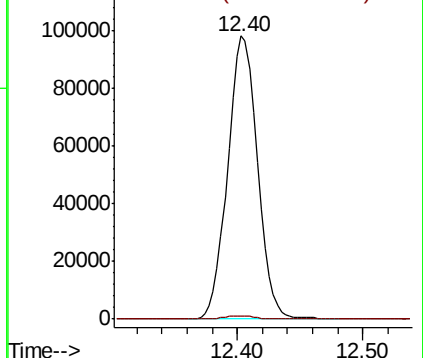
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 108.649 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057877.D

Acq: 10 Sep 2019 20:42

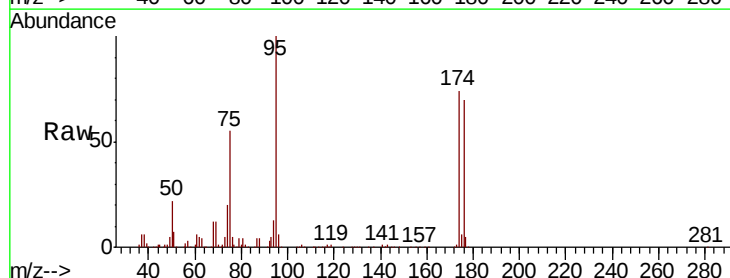
Tgt Ion: 75 Resp: 162294

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

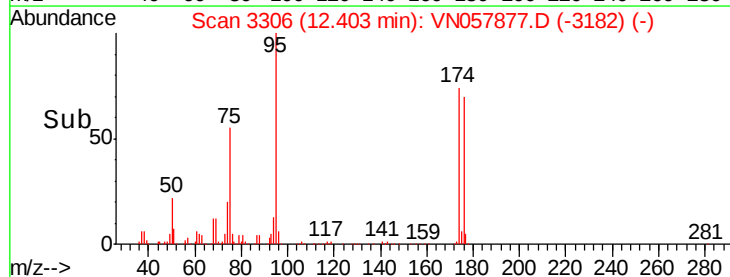
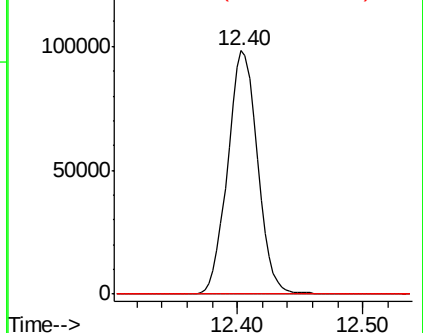
89 0.0 35.3 52.9#

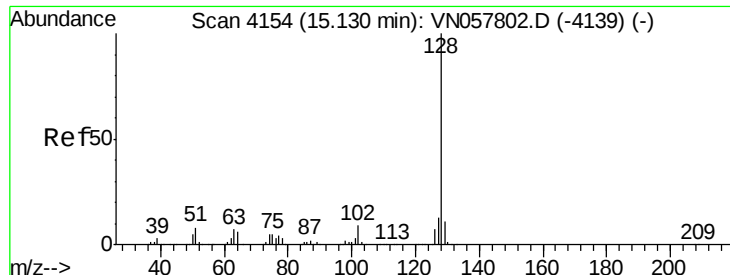


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057877.D

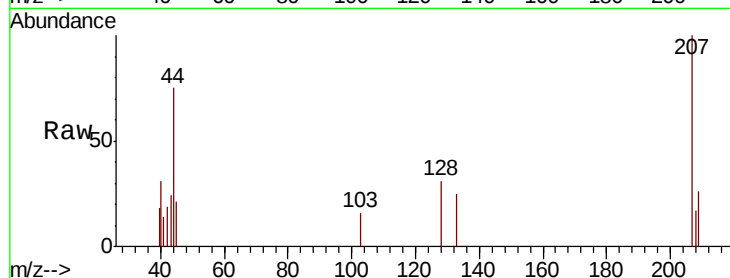
Acq: 10 Sep 2019 20:42

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(4)



Tgt Ion:128 Resp: 502

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

