

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057873.D
 Acq On : 10 Sep 2019 19:14
 Operator : JC/SP
 Sample : K4623-29
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D1-(0)

Quant Time: Sep 11 03:56:42 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	298508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	498236	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	455910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	232012	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	329662	54.53	ug/l	0.00
Spiked Amount			Recovery	=	109.06%	
35) Dibromofluoromethane	7.58	113	223117	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
50) Toluene-d8	10.09	98	919965	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
62) 4-Bromofluorobenzene	12.40	95	294285	43.25	ug/l	0.00
Spiked Amount			Recovery	=	86.50%	

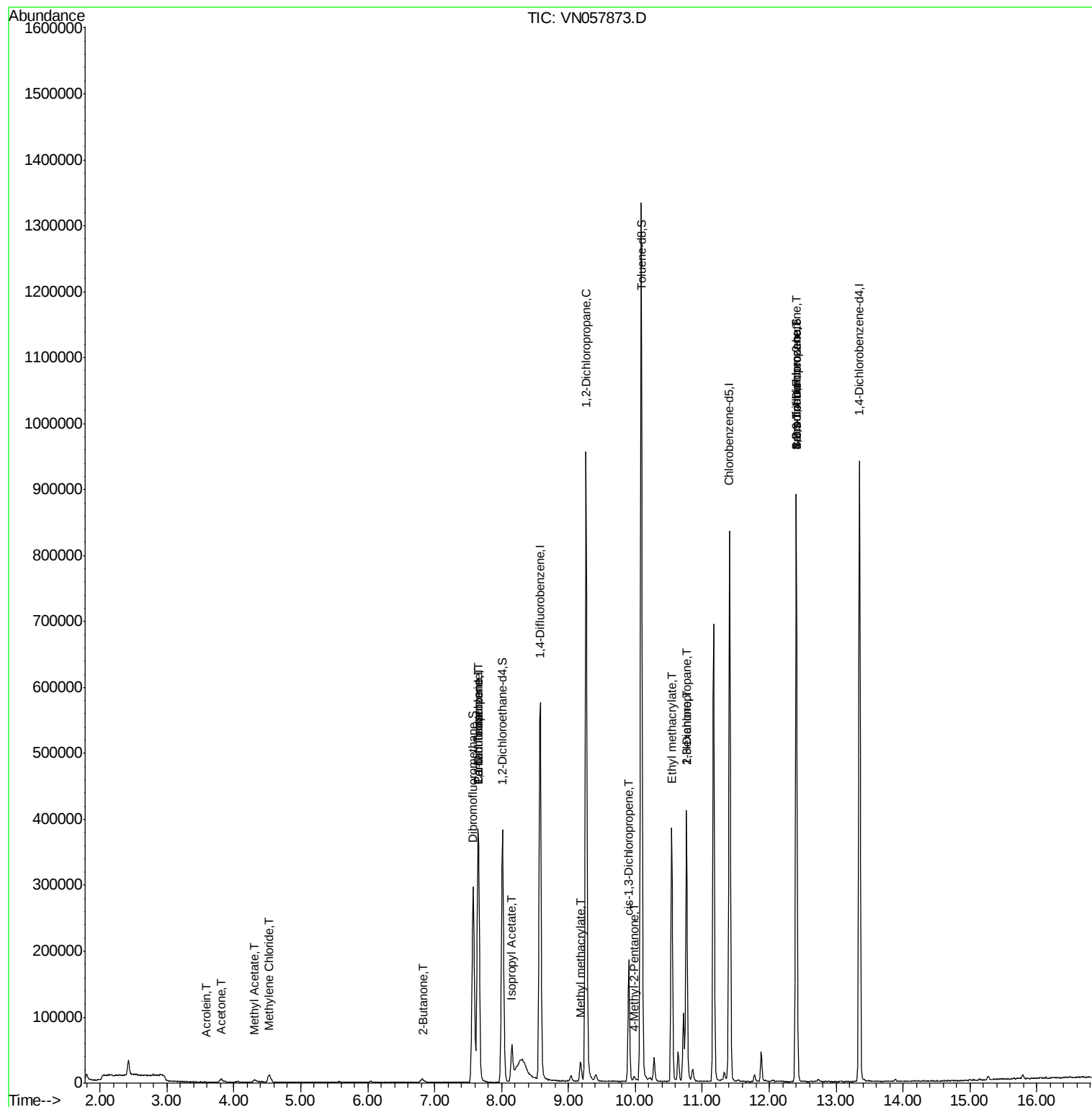
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	206	Below Cal	#	61
13) Acrolein	3.59	56	196	0.316	ug/l #	14
16) Acetone	3.82	43	9770	4.929	ug/l	96
18) Methyl Acetate	4.31	43	3337	0.631	ug/l	93
20) Methylene Chloride	4.53	84	8406	1.022	ug/l	95
25) 2-Butanone	6.83	43	724	0.252	ug/l #	78
31) Cyclohexane	7.65	56	7685	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	26022	4.503	ug/l #	50
38) Carbon Tetrachloride	7.65	117	31769	6.022	ug/l #	16
43) Isopropyl Acetate	8.15	43	72633	7.235	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1131	0.223	ug/l #	44
48) Methyl methacrylate	9.17	41	5093	1.000	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	3473	0.585	ug/l #	80
54) cis-1,3-Dichloropropene	9.90	75	30920	4.354	ug/l #	67
56) Ethyl methacrylate	10.54	69	1639	0.235	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3849	0.481	ug/l #	43
59) 2-Hexanone	10.76	43	60804	13.654	ug/l #	55
71) Bromoform	12.41	173	1852	0.717	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	164996	31.437	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	164996	110.626	ug/l #	6
95) Naphthalene	15.14	128	767	Below Cal	#	69

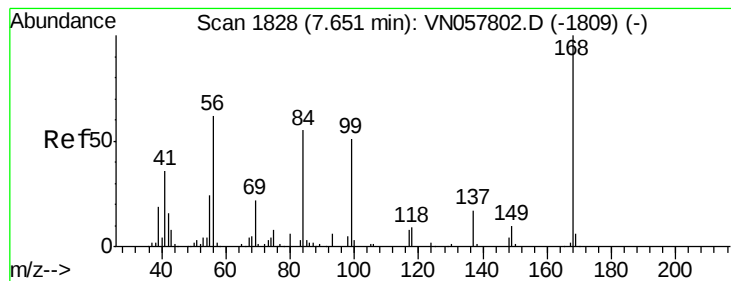
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057873.D

Acq: 10 Sep 2019 19:14

Instrument :

MSVOA_N

ClientSampleId :

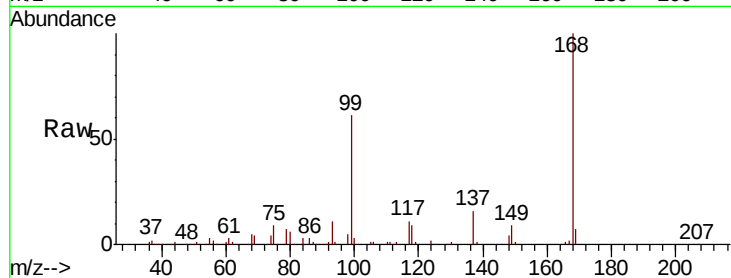
PAR-11-D1-(0)

Tgt Ion:168 Resp: 298508

Ion Ratio Lower Upper

168 100

99 61.1 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

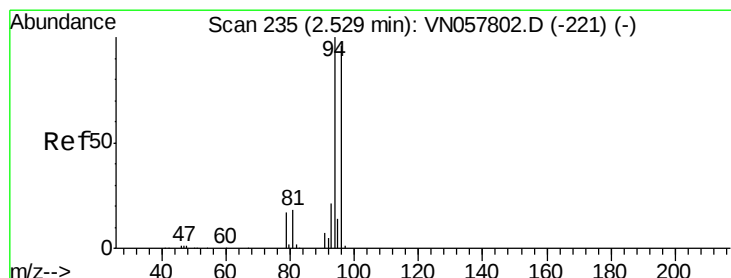
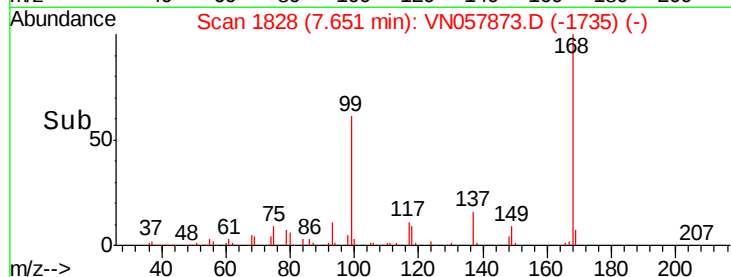
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN057873.D

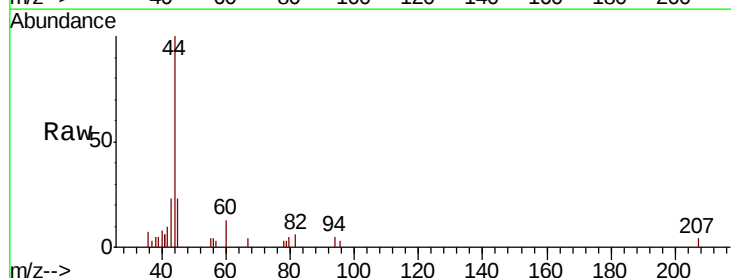
Acq: 10 Sep 2019 19:14

Tgt Ion: 94 Resp: 206

Ion Ratio Lower Upper

94 100

96 58.5 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

300

250

200

150

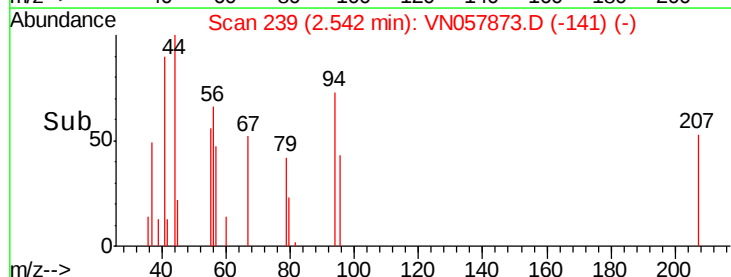
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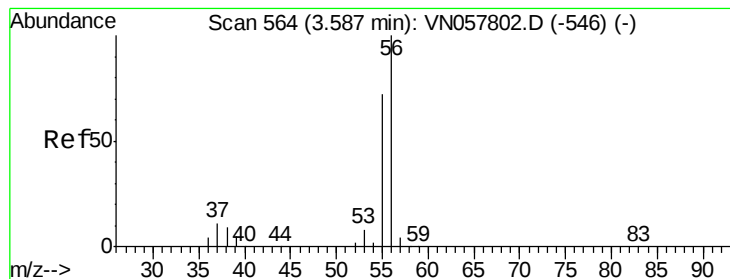
50

0

2.52 2.53 2.54 2.55 2.56

Time-->





#13

Acrolein

Concen: 0.316 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.00 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

Instrument :

MSVOA_N

ClientSampleId :

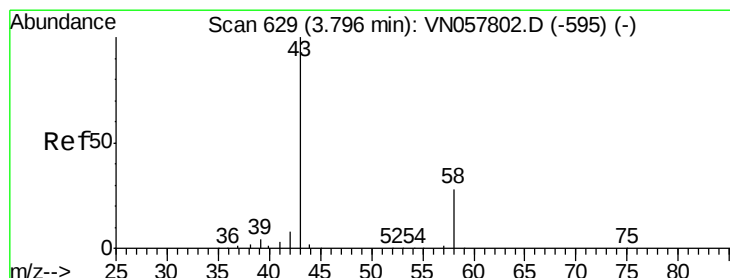
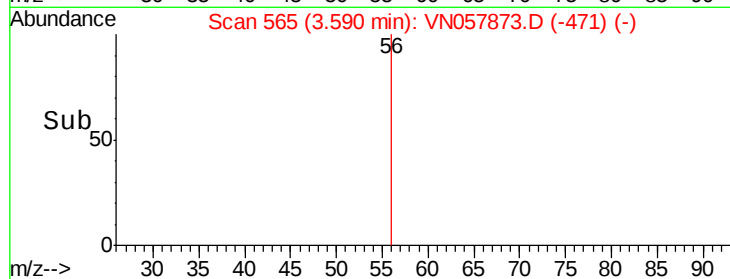
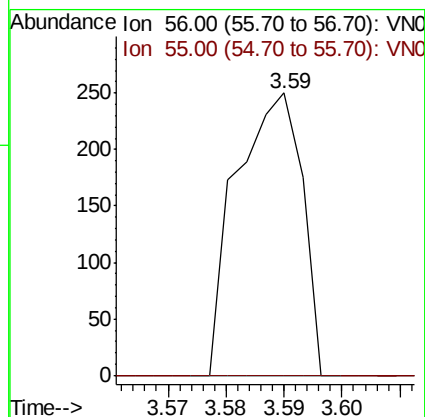
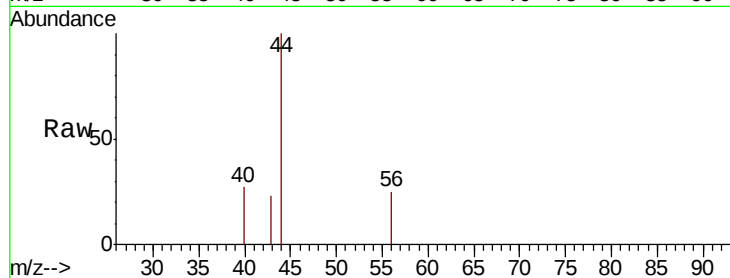
PAR-11-D1-(0)

Tgt Ion: 56 Resp: 196

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#



#16

Acetone

Concen: 4.929 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.02 min

Lab File: VN057873.D

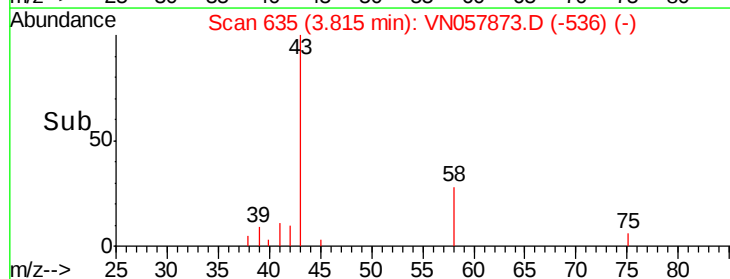
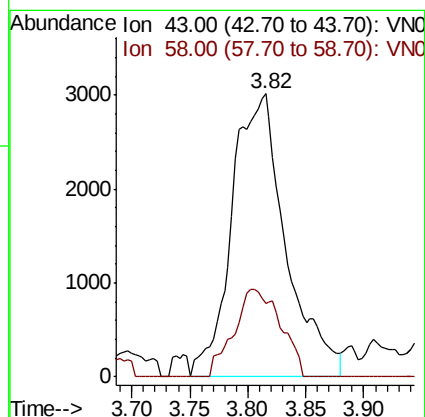
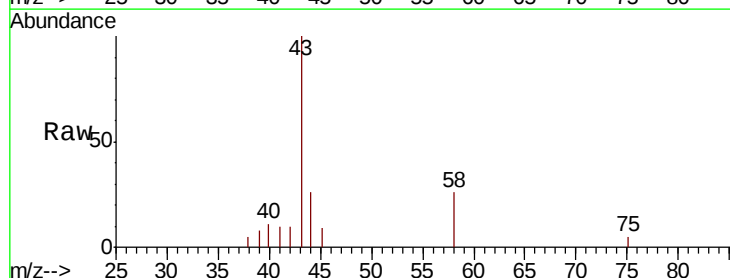
Acq: 10 Sep 2019 19:14

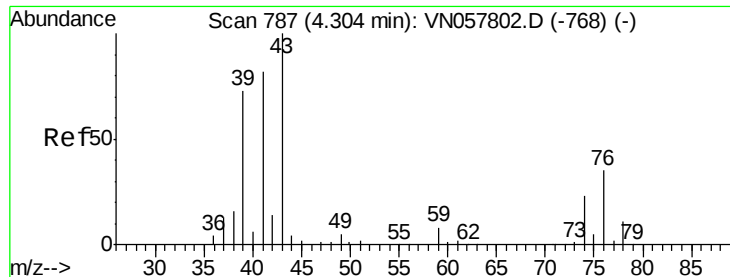
Tgt Ion: 43 Resp: 9770

Ion Ratio Lower Upper

43 100

58 25.8 22.2 33.2

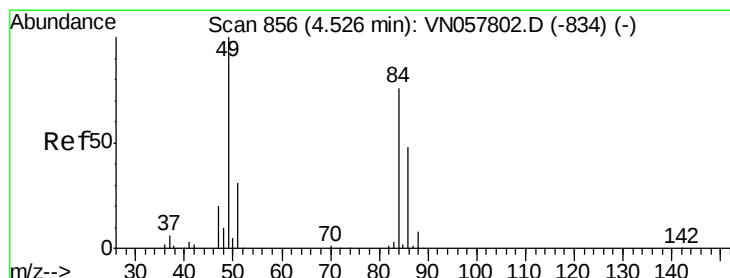
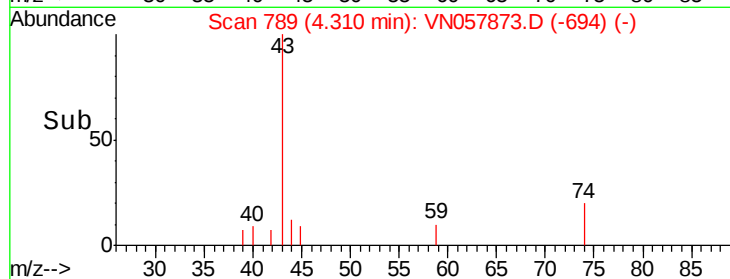
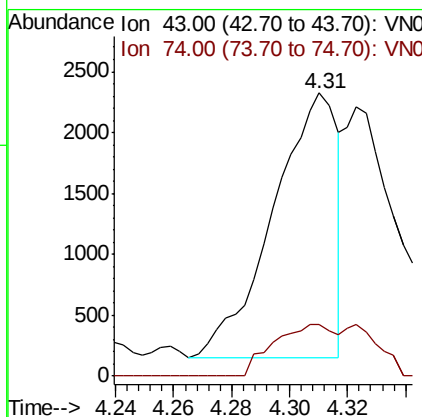
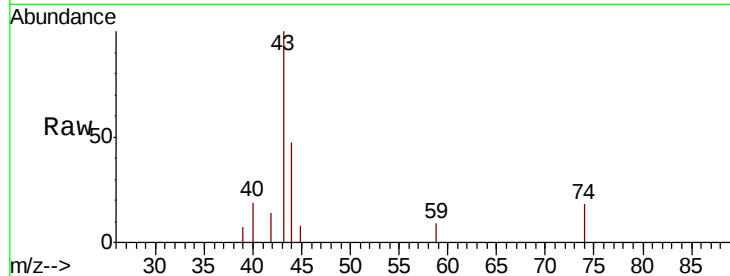




#18
Methyl Acetate
Concen: 0.631 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN057873.D
Acq: 10 Sep 2019 19:14

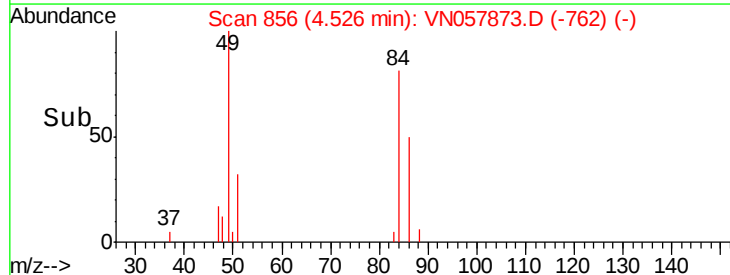
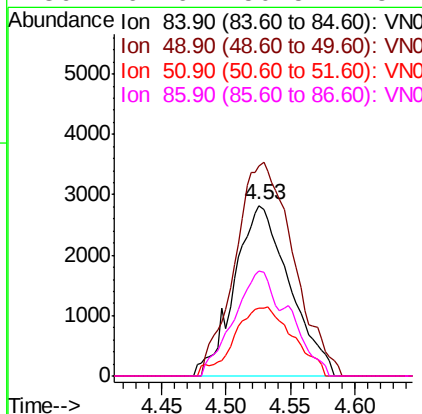
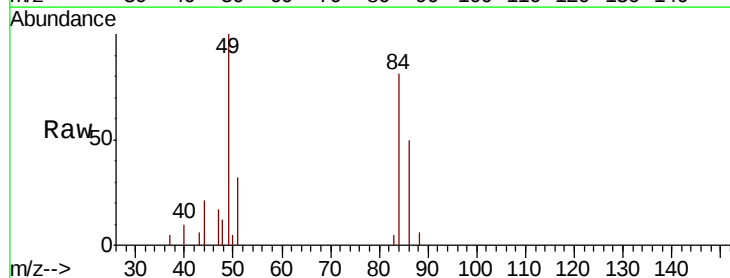
Instrument :
MSVOA_N
ClientSampled :
PAR-11-D1-(0)

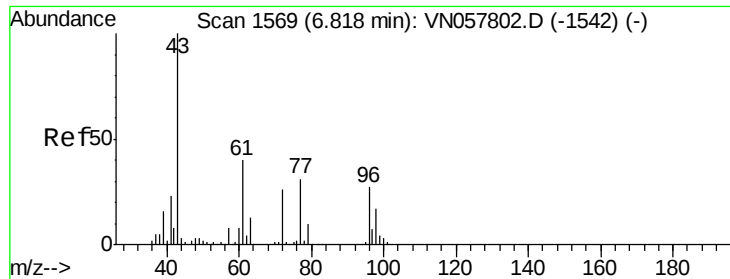
Tgt Ion: 43 Resp: 3337
Ion Ratio Lower Upper
43 100
74 19.0 17.9 26.9



#20
Methylene Chloride
Concen: 1.022 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057873.D
Acq: 10 Sep 2019 19:14

Tgt Ion: 84 Resp: 8406
Ion Ratio Lower Upper
84 100
49 123.0 104.8 157.2
51 39.6 33.0 49.4
86 61.6 50.5 75.7

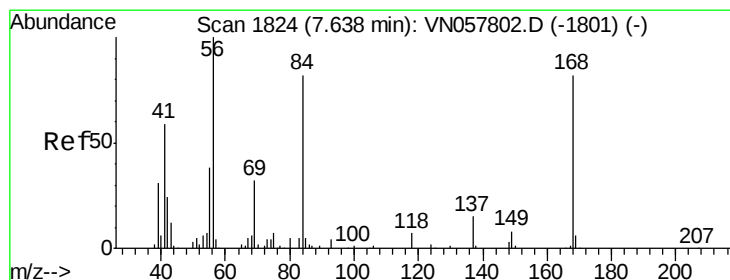
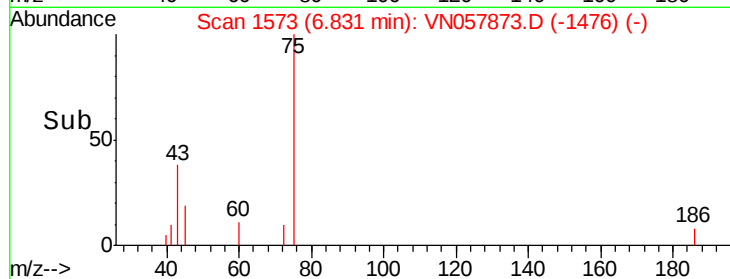
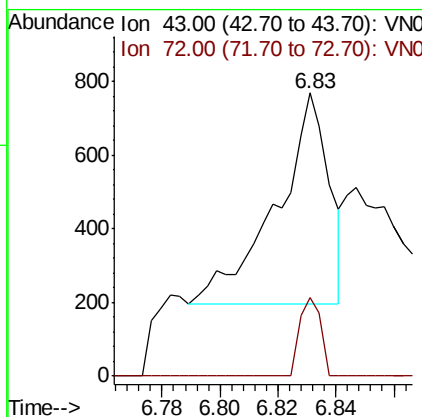
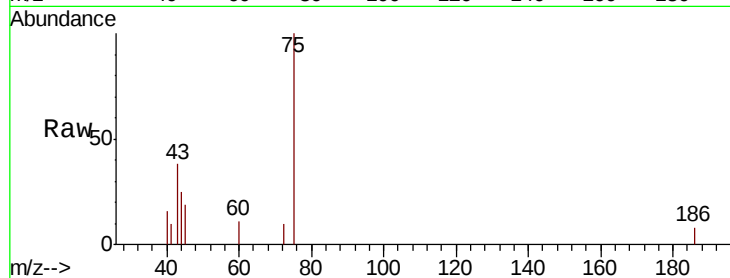




#25
2-Butanone
Concen: 0.252 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057873.D
Acq: 10 Sep 2019 19:14

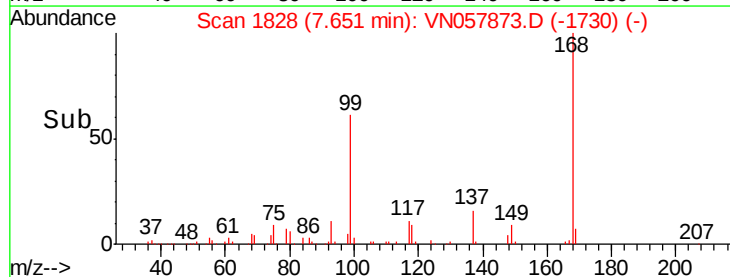
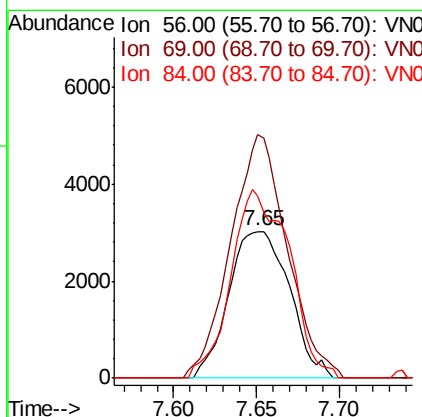
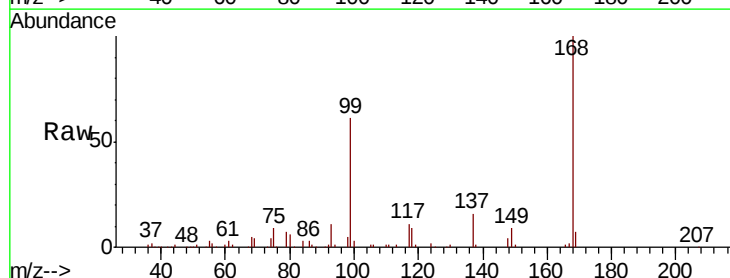
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D1-(0)

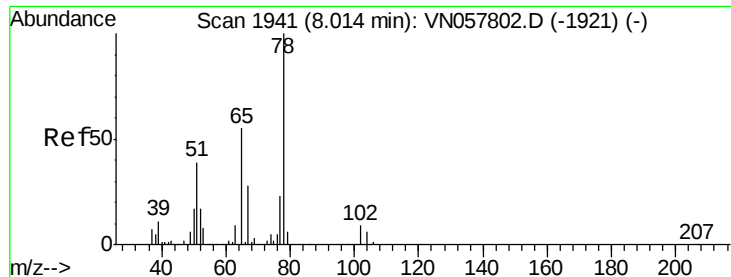
Tgt Ion: 43 Resp: 724
Ion Ratio Lower Upper
43 100
72 37.1 20.6 30.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057873.D
Acq: 10 Sep 2019 19:14

Tgt Ion: 56 Resp: 7685
Ion Ratio Lower Upper
56 100
69 161.1 25.9 38.9#
84 124.7 65.6 98.4#

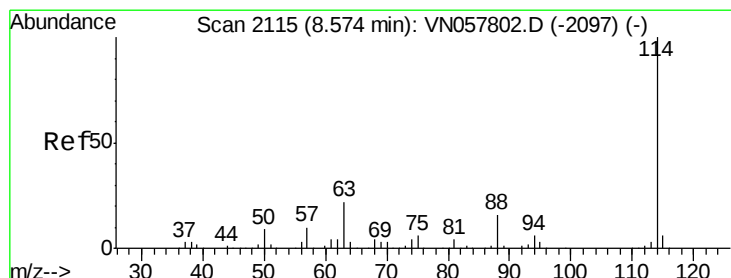
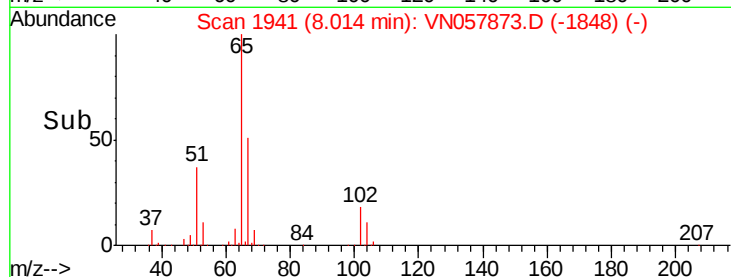
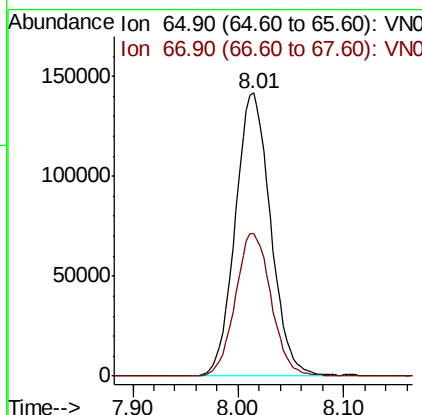
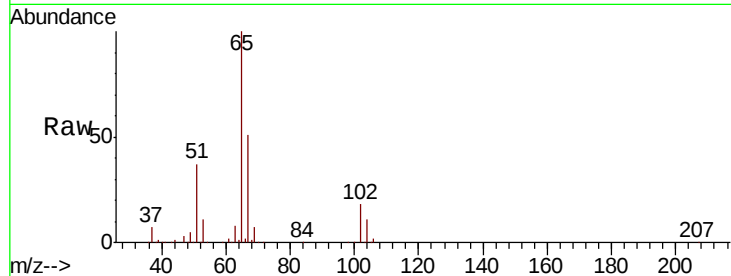




#33
 1,2-Dichloroethane-d4
 Concen: 54.525 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

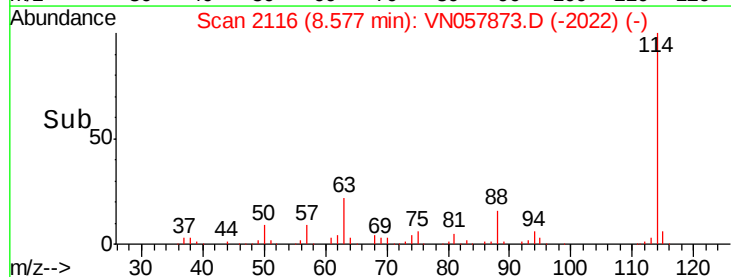
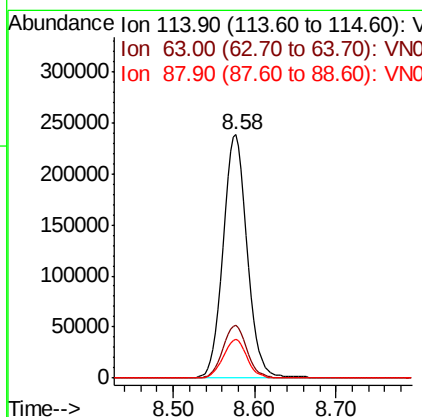
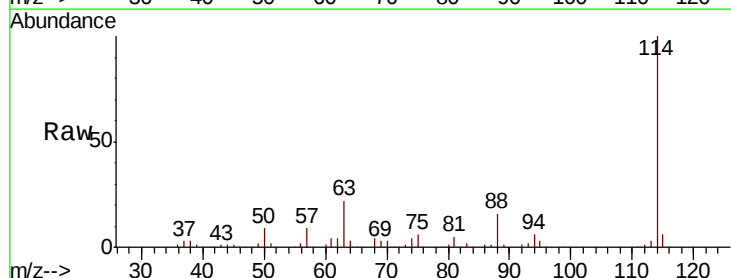
Instrument :
 MSVOA_N
 ClientSampleId :
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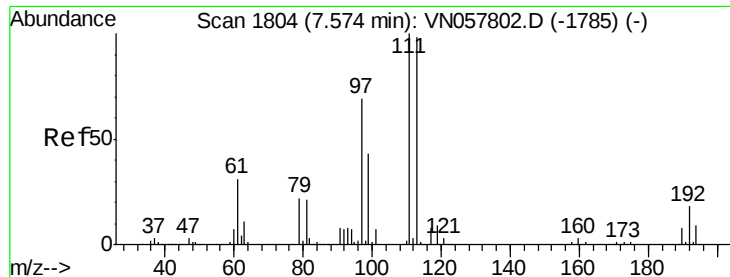
Tgt Ion: 65 Resp: 329662
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

Tgt Ion: 114 Resp: 498236
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 44.0
 88 15.7 0.0 31.4

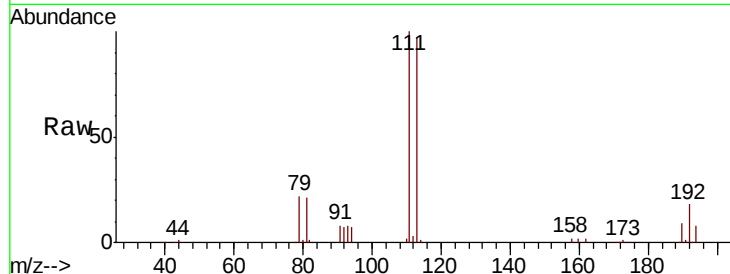




#35
 Dibromofluoromethane
 Concen: 48.519 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D1-(0)

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.3	121.9
192	17.8	14.6	22.0

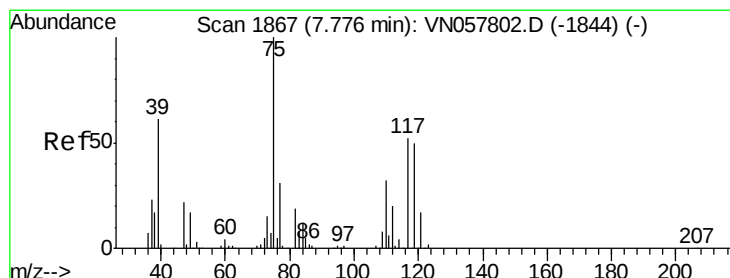
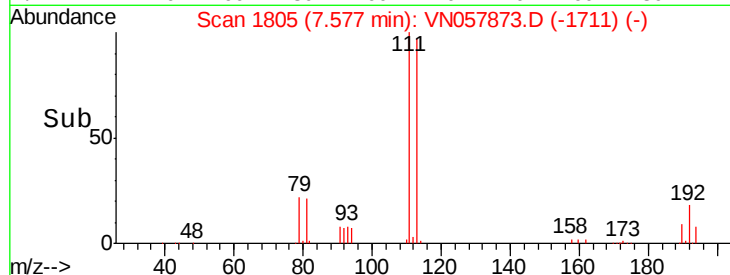
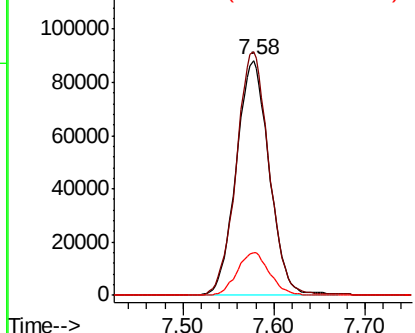


Abundance

Ion 112.80 (112.50 to 113.50): V

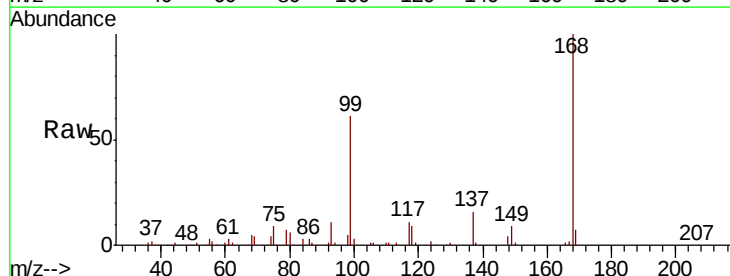
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.503 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

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

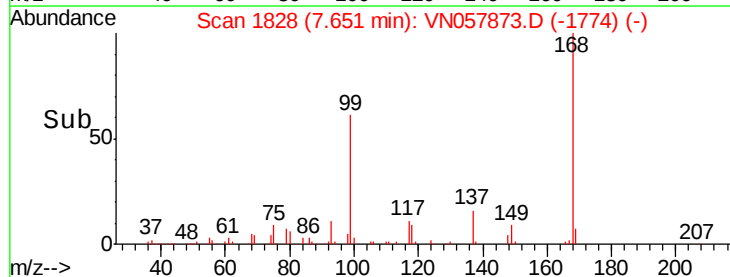
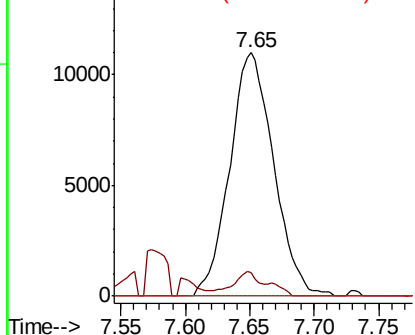


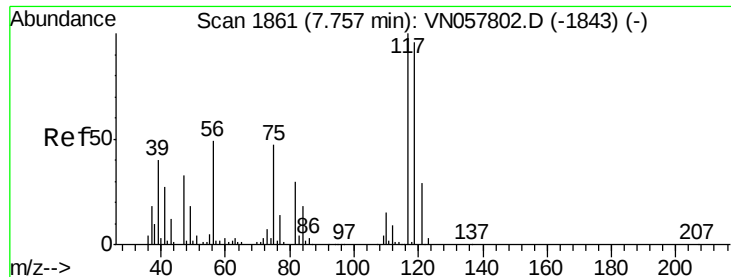
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.022 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(0)

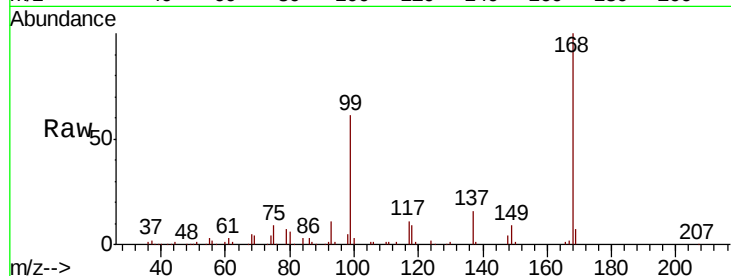
Tgt Ion:117 Resp: 31769

Ion Ratio Lower Upper

117 100

119 5.6 76.9 115.3#

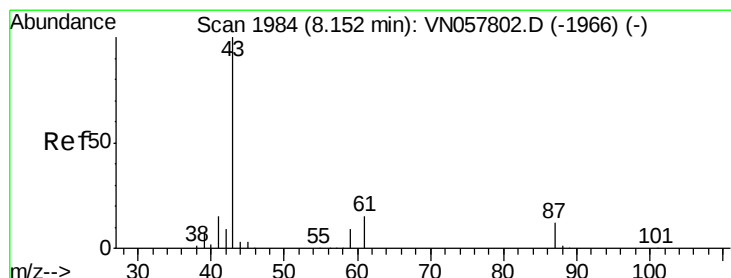
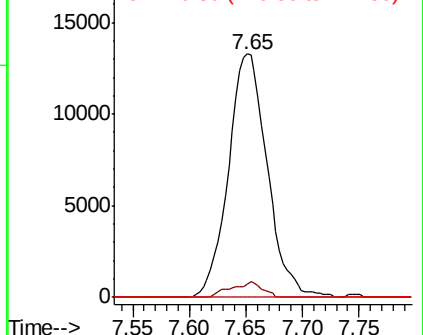
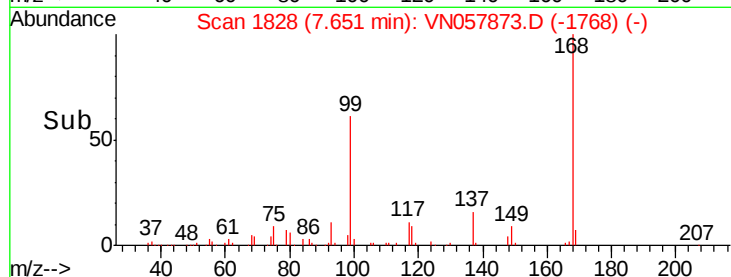
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.235 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

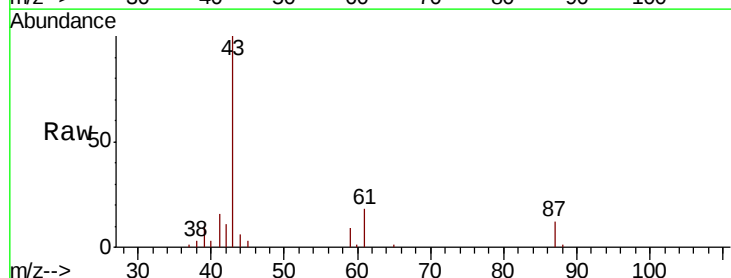
Tgt Ion: 43 Resp: 72633

Ion Ratio Lower Upper

43 100

61 16.6 20.1 30.1#

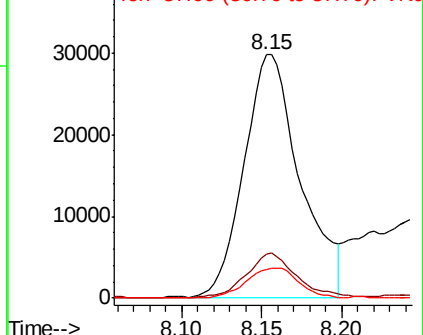
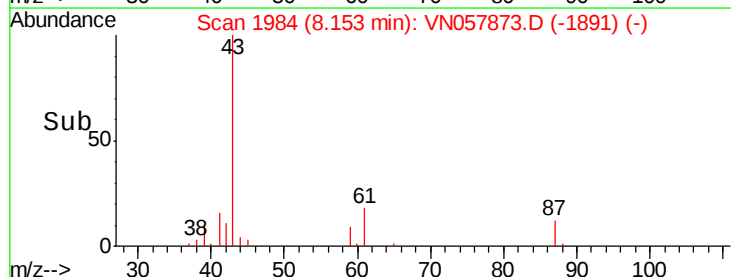
87 11.3 9.5 14.3

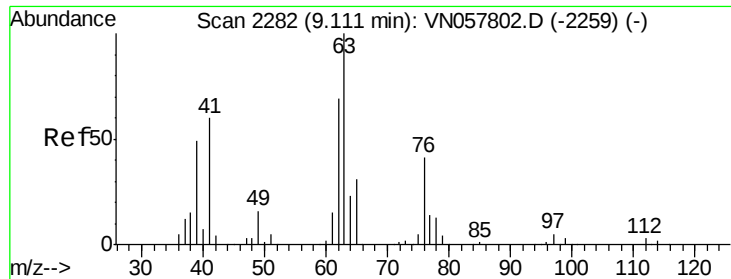


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

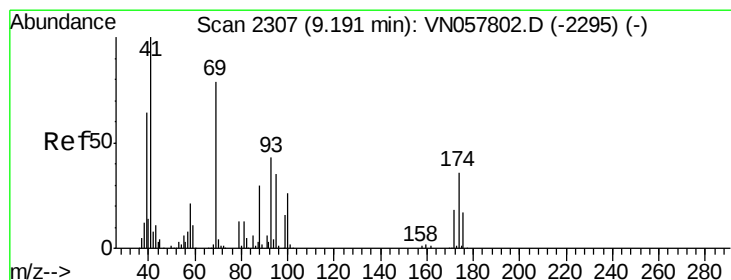
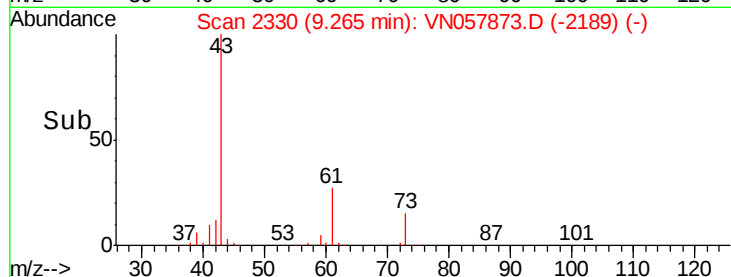
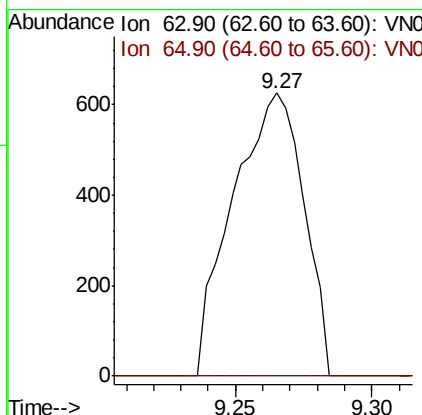
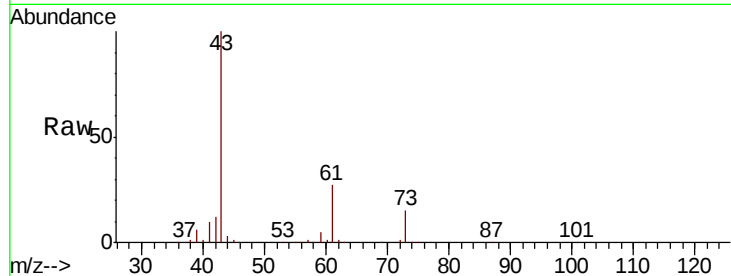




#45
 1,2-Dichloropropane
 Concen: 0.223 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

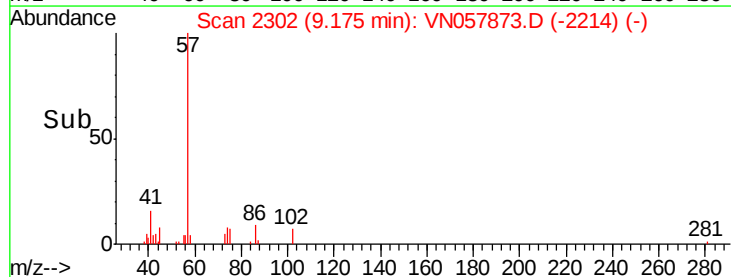
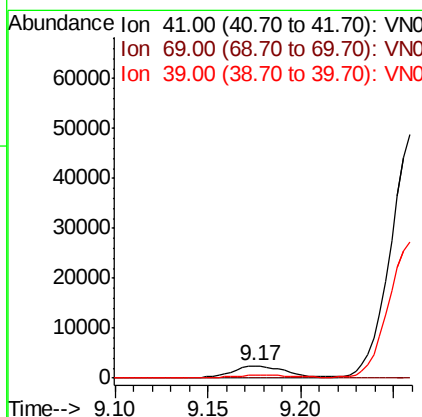
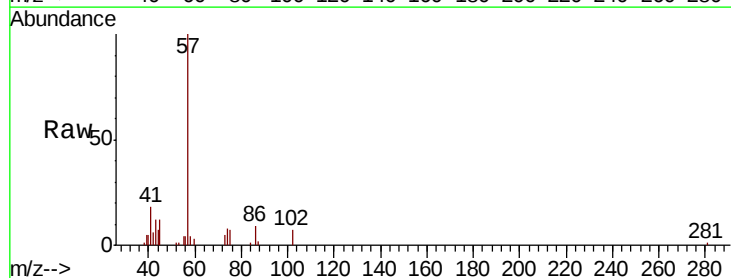
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D1-(0)

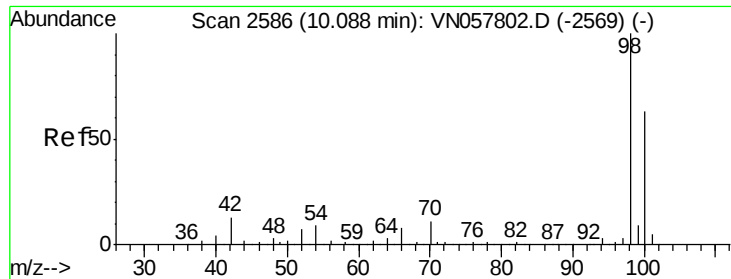
Tgt Ion: 63 Resp: 1131
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.000 ug/l
 RT: 9.17 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

Tgt Ion: 41 Resp: 5093
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 51.527 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

Instrument :

MSVOA_N

ClientSampled :

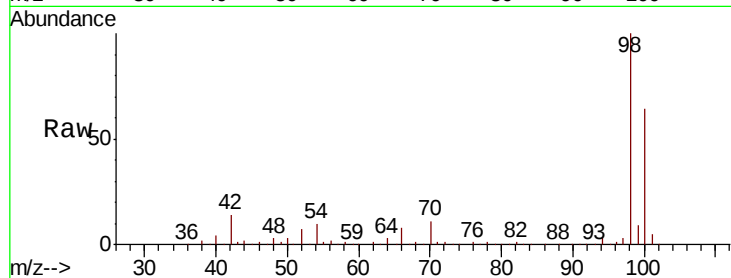
PAR-11-D1-(0)

Tgt Ion: 98 Resp: 919965

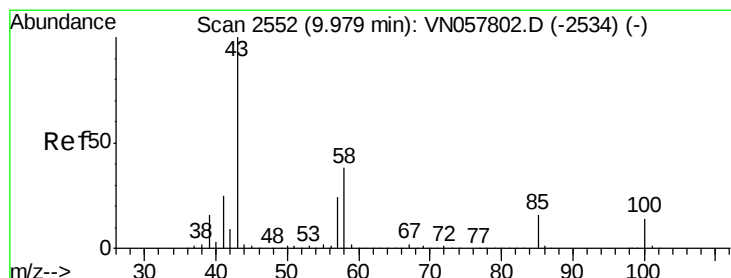
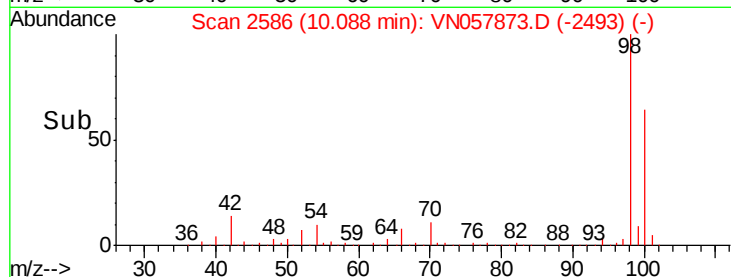
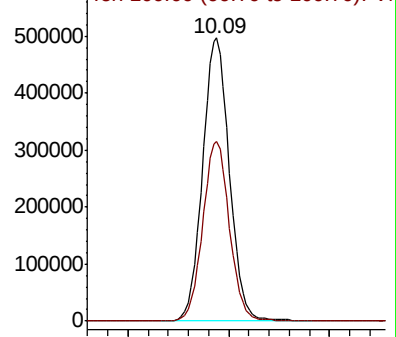
Ion Ratio Lower Upper

98 100

100 63.3 50.3 75.5



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



#51

4-Methyl-2-Pentanone

Concen: 0.585 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057873.D

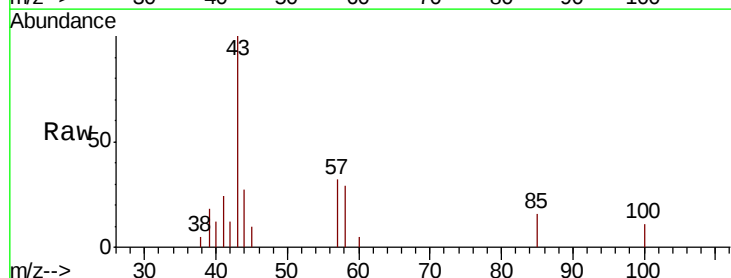
Acq: 10 Sep 2019 19:14

Tgt Ion: 43 Resp: 3473

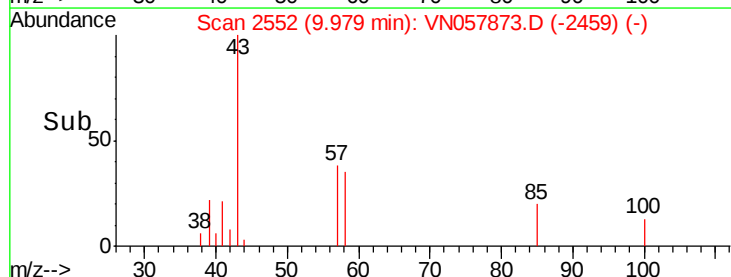
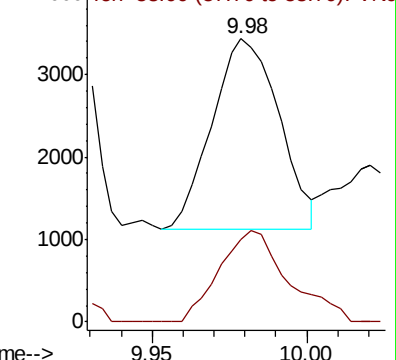
Ion Ratio Lower Upper

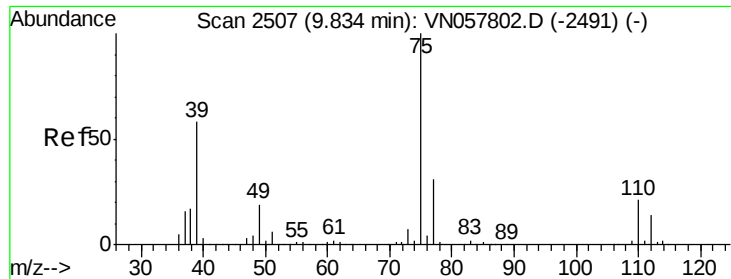
43 100

58 49.2 29.8 44.6#



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





#54

cis-1,3-Dichloropropene

Concen: 4.354 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(0)

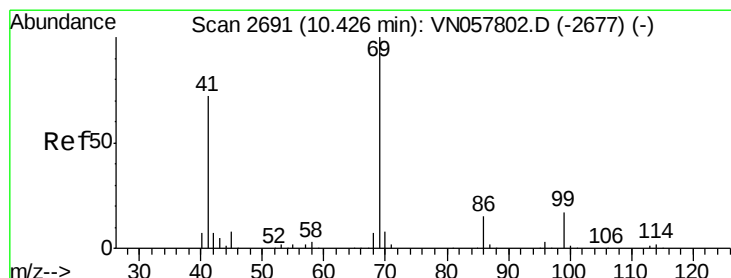
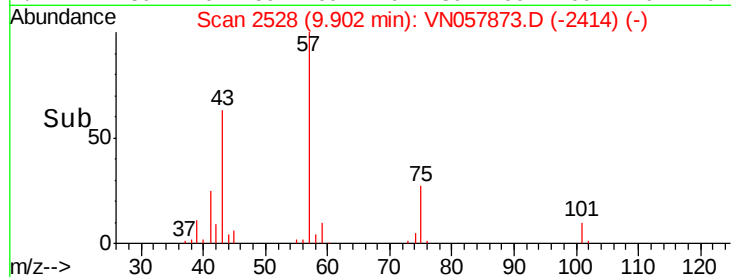
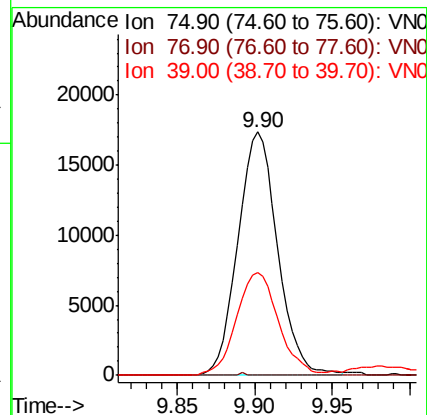
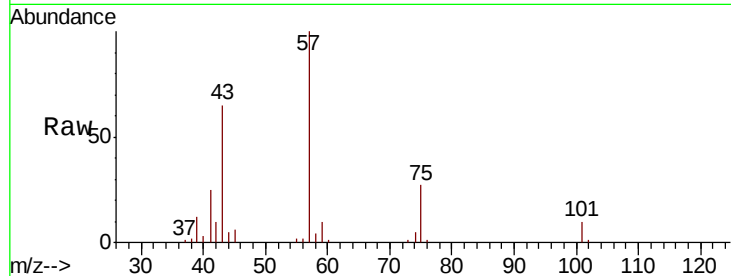
Tgt Ion: 75 Resp: 30920

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 42.3 46.2 69.4#



#56

Ethyl methacrylate

Concen: 0.235 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

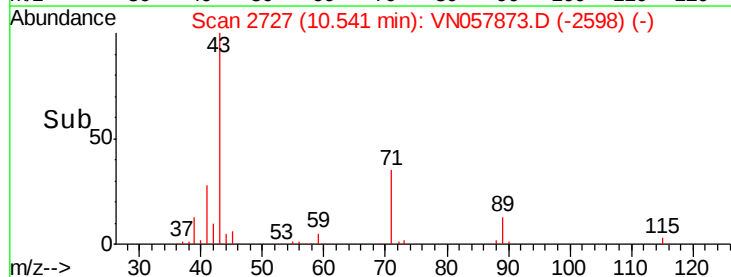
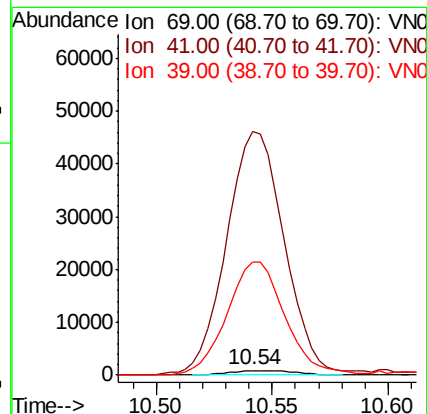
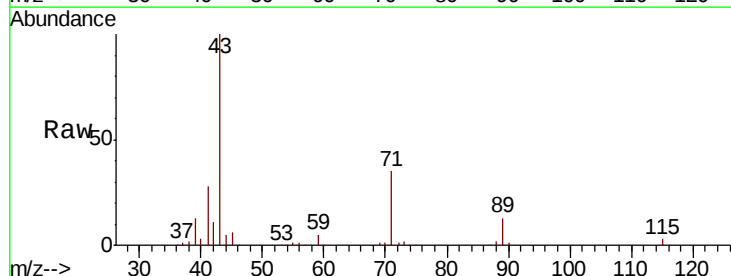
Tgt Ion: 69 Resp: 1639

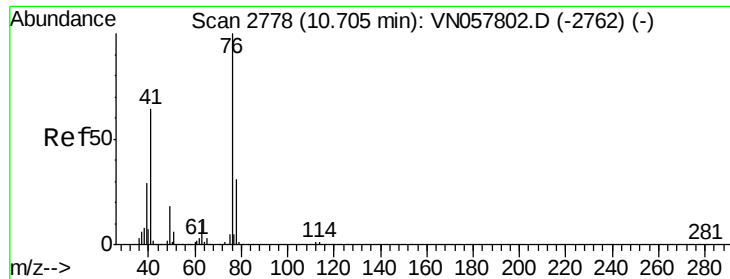
Ion Ratio Lower Upper

69 100

41 4920.9 56.7 85.1#

39 2275.8 36.3 54.5#

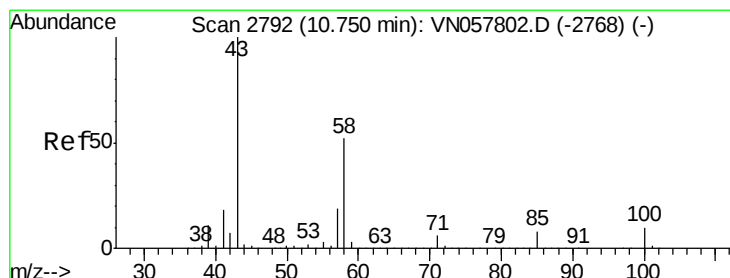
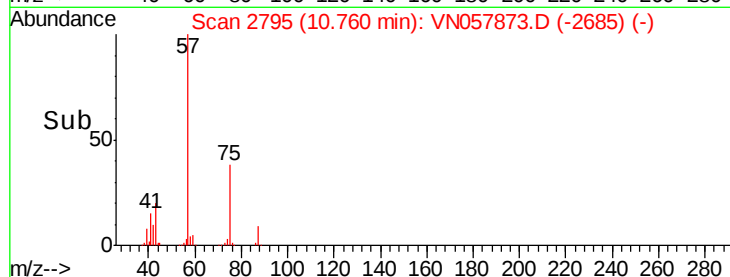
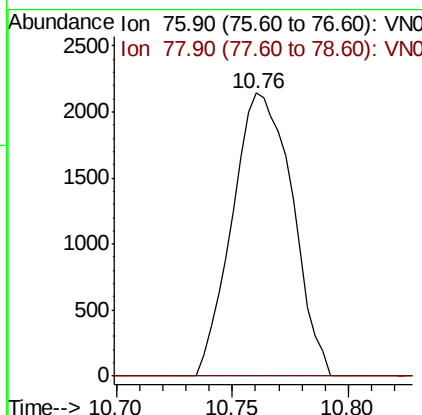
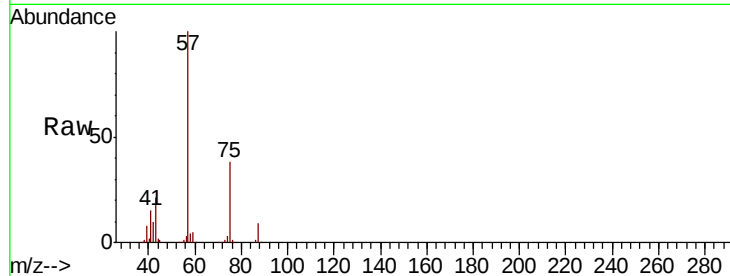




#57
 1,3-Dichloropropane
 Concen: 0.481 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

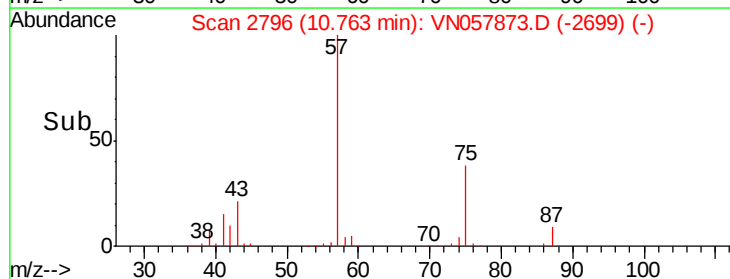
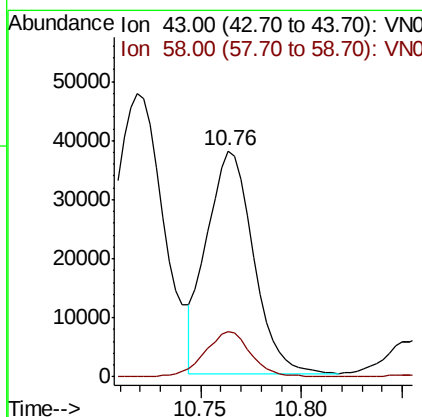
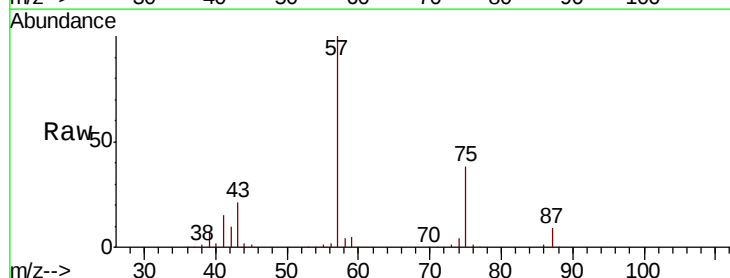
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D1-(0)

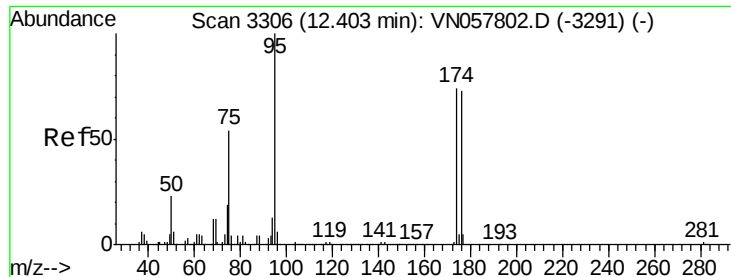
Tgt Ion: 76 Resp: 3849
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 13.654 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

Tgt Ion: 43 Resp: 60804
 Ion Ratio Lower Upper
 43 100
 58 20.0 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.252 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(0)

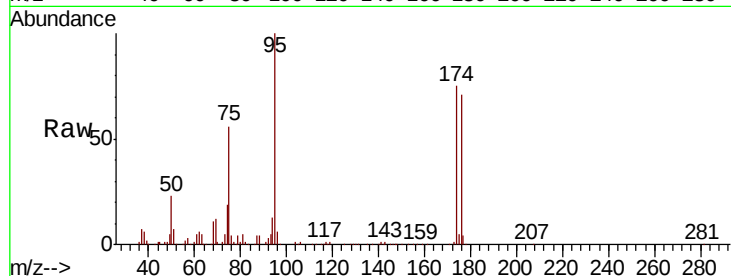
Tgt Ion: 95 Resp: 294285

Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.2

176 72.4 0.0 146.0



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

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

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

12.40

200000

150000

100000

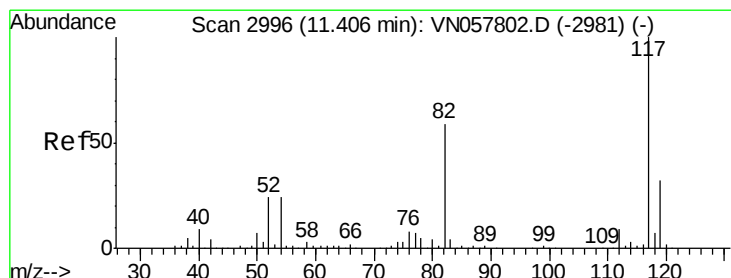
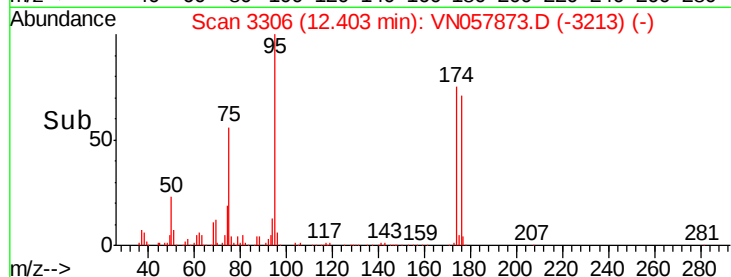
50000

0

12.40

12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

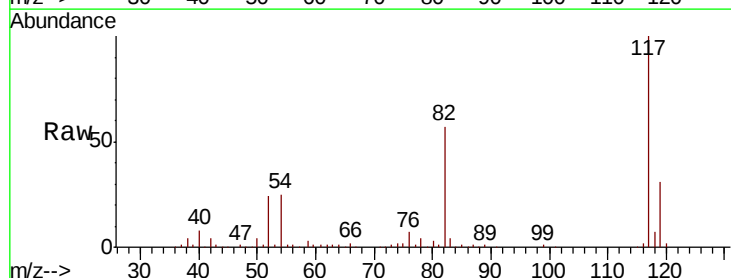
Tgt Ion: 117 Resp: 455910

Ion Ratio Lower Upper

117 100

82 57.3 47.2 70.8

119 30.8 25.3 37.9



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

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

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

11.41

300000

200000

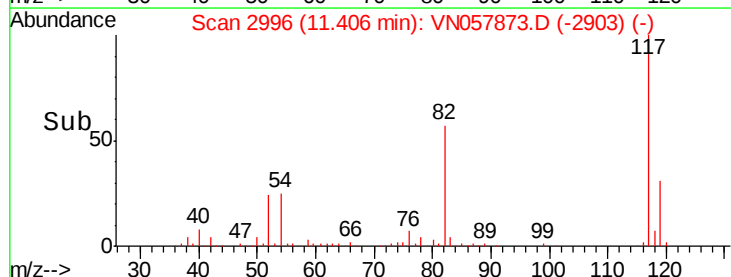
100000

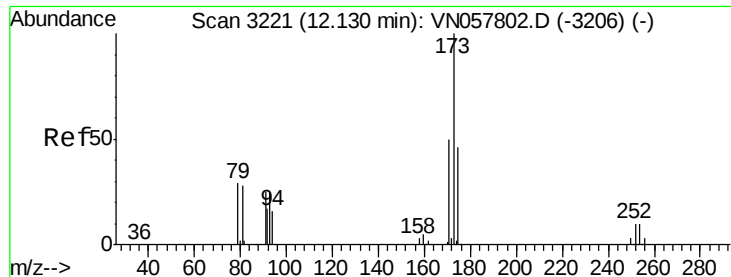
0

11.40

11.50

Time-->





#71

Bromoform

Concen: 0.717 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN057873.D

Acq: 10 Sep 2019 19:14

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D1-(0)

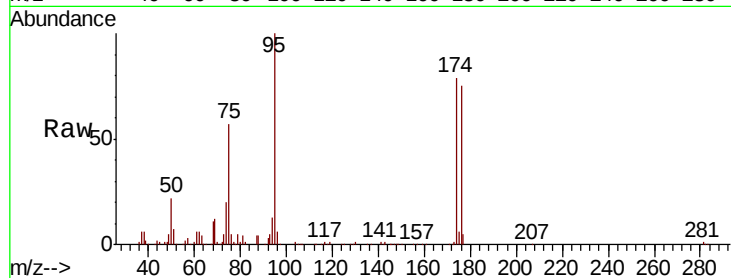
Tgt Ion:173 Resp: 1852

Ion Ratio Lower Upper

173 100

175 784.1 23.5 70.6#

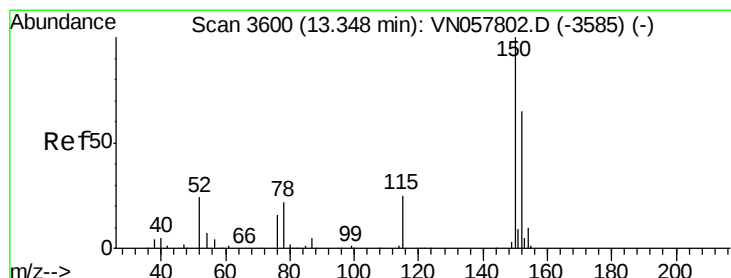
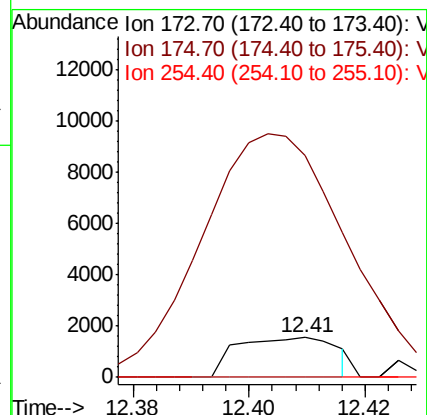
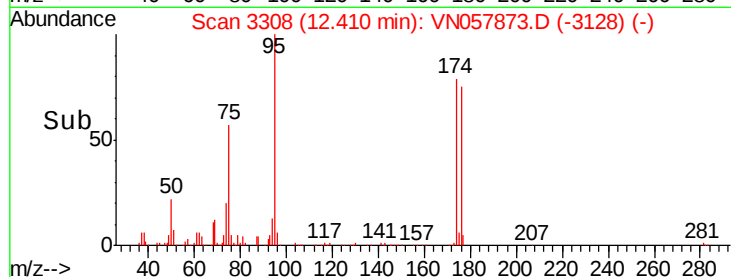
254 0.0 0.1 0.1#



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: VN057873.D

Acq: 10 Sep 2019 19:14

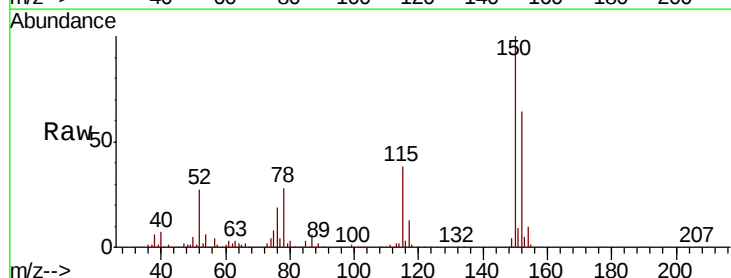
Tgt Ion:152 Resp: 232012

Ion Ratio Lower Upper

152 100

115 60.6 30.3 91.0

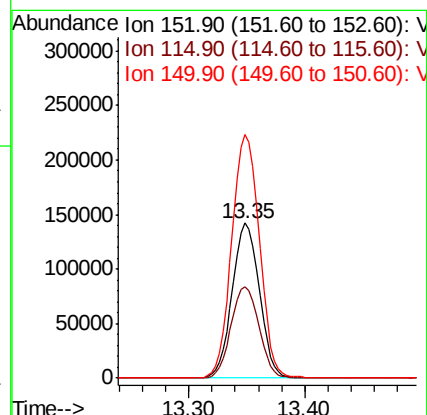
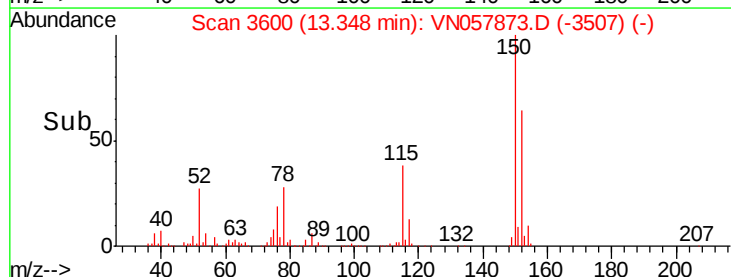
150 159.4 0.0 352.4

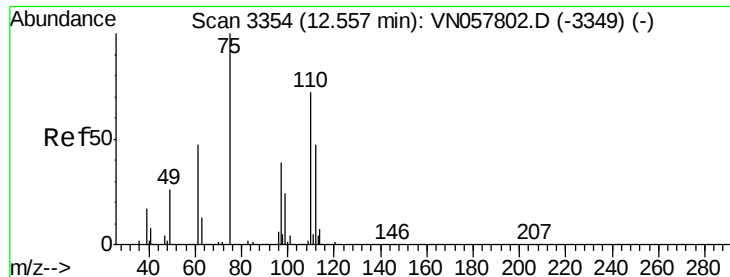


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

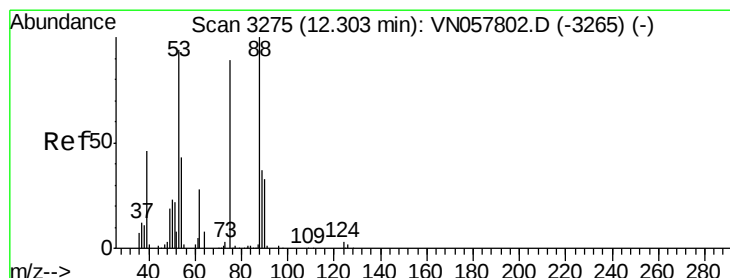
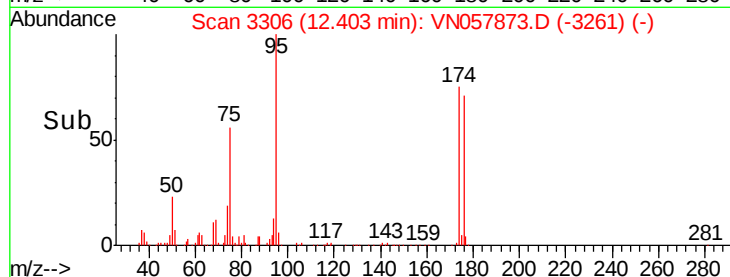
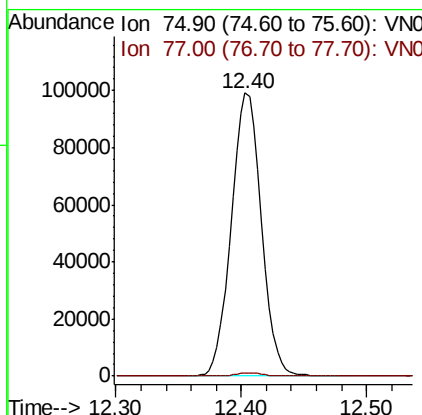
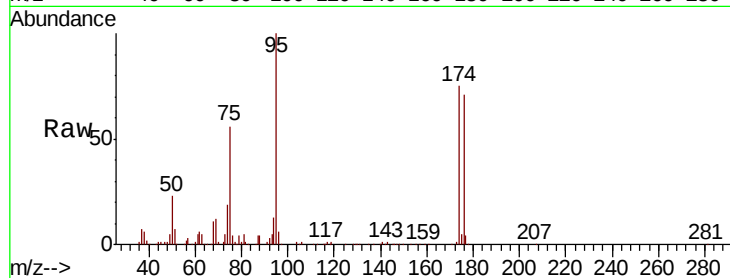




#76
 1,2,3-Trichloropropane
 Concen: 31.437 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

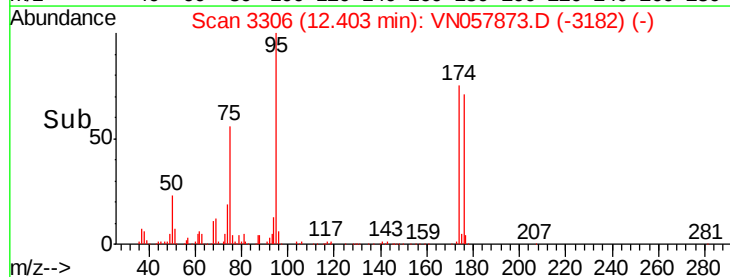
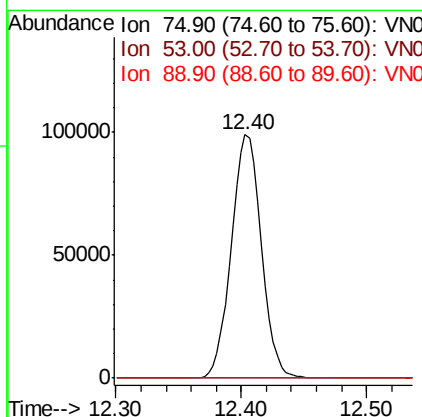
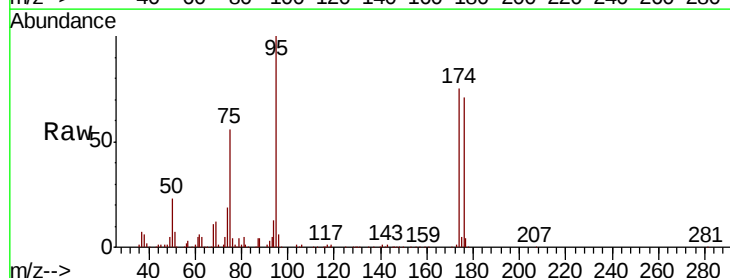
Instrument :
 MSVOA_N
 ClientSampled :
 PAR-11-D1-(0)

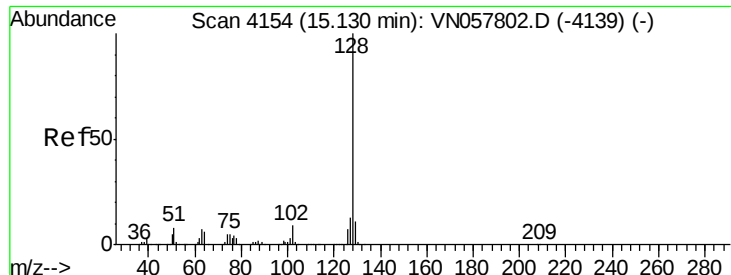
Tgt Ion: 75 Resp: 164996
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 110.626 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057873.D
 Acq: 10 Sep 2019 19:14

Tgt Ion: 75 Resp: 164996
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

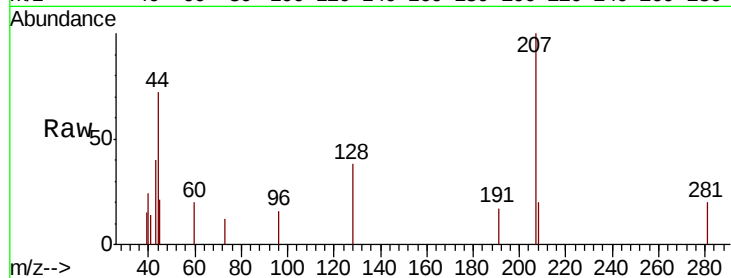




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN057873.D
Acq: 10 Sep 2019 19:14

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D1-(0)

Tgt Ion:128 Resp: 767
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

