

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057903.D
 Acq On : 11 Sep 2019 7:00
 Operator : JC/SP
 Sample : K4624-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E1-(4)

Quant Time: Sep 11 07:58:31 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	307037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	534195	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	492403	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	251337	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	335375	53.93	ug/l	0.00
Spiked Amount			Recovery	=	107.86%	
35) Dibromofluoromethane	7.58	113	232780	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
50) Toluene-d8	10.09	98	946042	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.40	95	310624	42.58	ug/l	0.00
Spiked Amount			Recovery	=	85.16%	

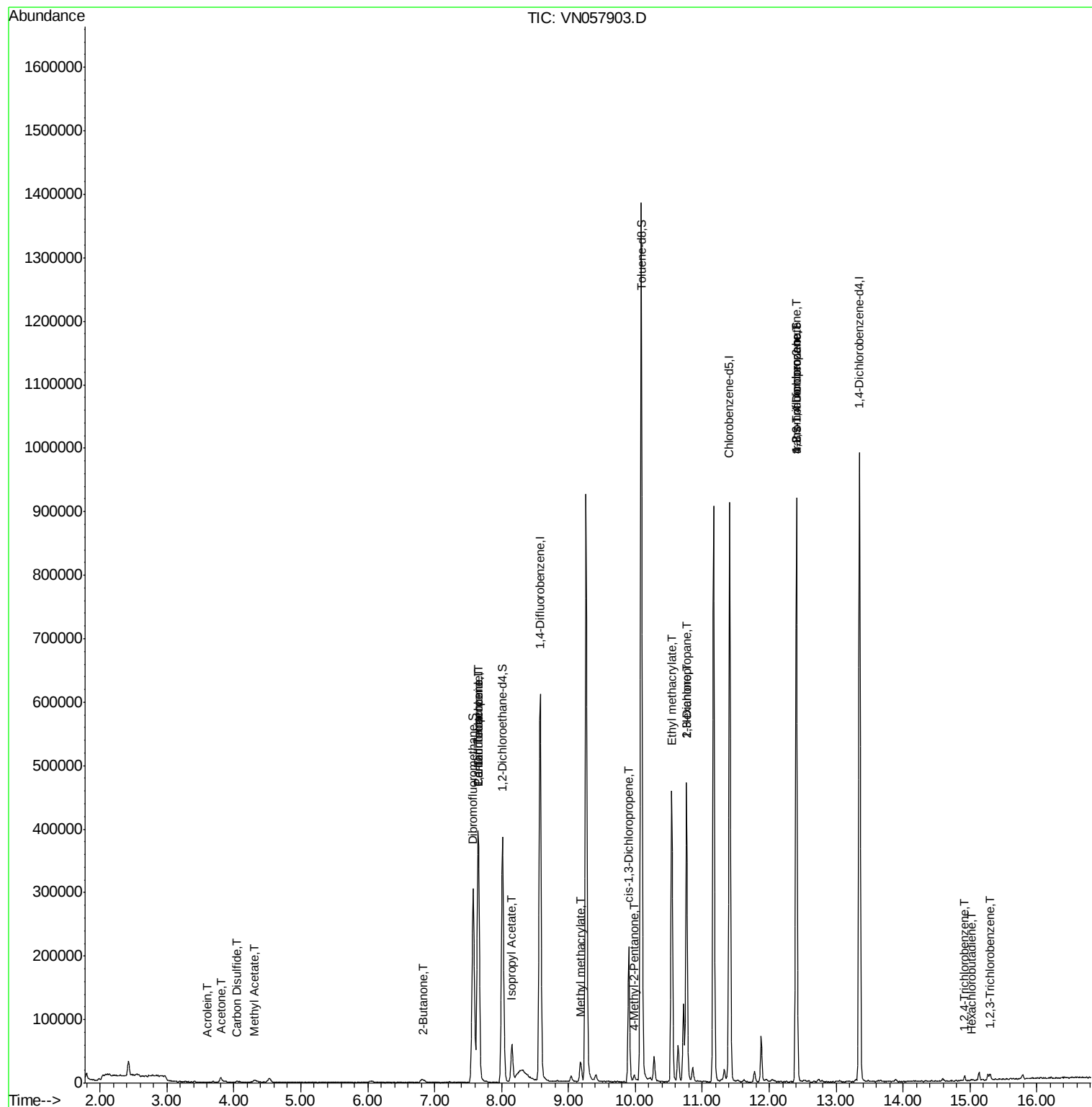
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	633	Below Cal		94
13) Acrolein	3.60	56	138	0.216 ug/l #		68
16) Acetone	3.80	43	13043	6.398 ug/l #		87
17) Carbon Disulfide	4.04	76	876	0.330 ug/l #		75
18) Methyl Acetate	4.31	43	3635	0.669 ug/l		98
20) Methylene Chloride	4.53	84	4585	Below Cal #		69
25) 2-Butanone	6.82	43	1680	0.569 ug/l		94
31) Cyclohexane	7.65	56	8261	Below Cal #		40
36) 1,1-Dichloropropene	7.65	75	27020	4.361 ug/l #		51
38) Carbon Tetrachloride	7.65	117	33147	5.860 ug/l #		15
43) Isopropyl Acetate	8.16	43	71855	6.675 ug/l #		90
48) Methyl methacrylate	9.18	41	5265	0.964 ug/l #		33
51) 4-Methyl-2-Pentanone	9.98	43	8205	1.288 ug/l		93
54) cis-1,3-Dichloropropene	9.90	75	35940	4.720 ug/l #		65
56) Ethyl methacrylate	10.54	69	1672	0.223 ug/l #		1
57) 1,3-Dichloropropane	10.76	76	4541	0.530 ug/l #		43
59) 2-Hexanone	10.76	43	72675	15.222 ug/l #		55
76) 1,2,3-Trichloropropane	12.40	75	170849	30.049 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	170849	105.743 ug/l #		6
93) 1,2,4-Trichlorobenzene	14.92	180	2496	0.428 ug/l		89
94) Hexachlorobutadiene	15.01	225	530	0.215 ug/l #		22
95) Naphthalene	15.13	128	10251	Below Cal		96
96) 1,2,3-Trichlorobenzene	15.30	180	2792	1.536 ug/l #		86

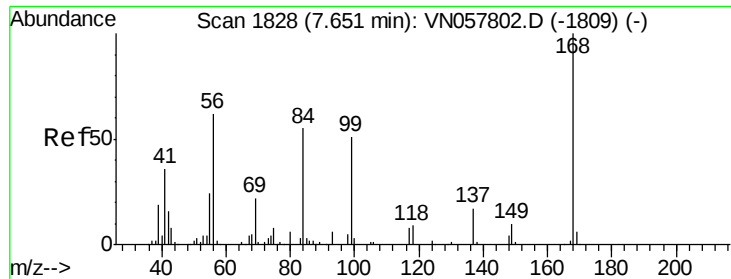
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 10 03:02:13 2019
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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: VN057903.D

Acq: 11 Sep 2019 7:00

Instrument :

MSVOA_N

ClientSampleId :

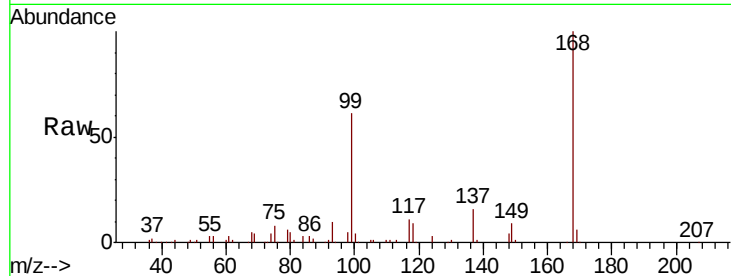
PAR-11-E1-(4)

Tgt Ion:168 Resp: 307037

Ion Ratio Lower Upper

168 100

99 60.9 48.0 72.0



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

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

7.65

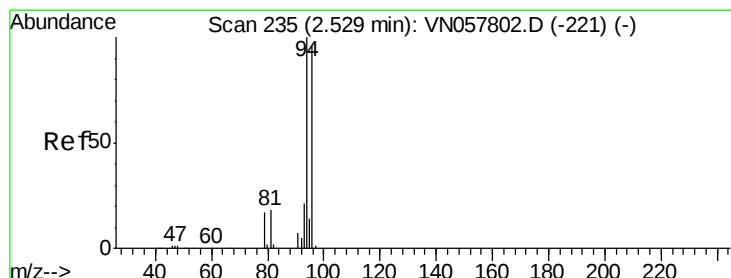
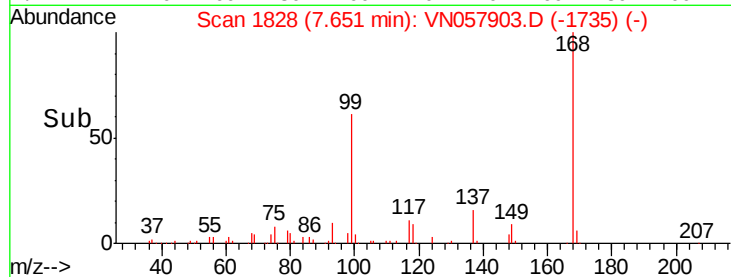
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057903.D

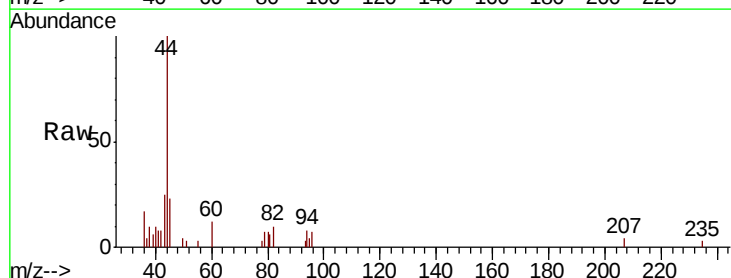
Acq: 11 Sep 2019 7:00

Tgt Ion: 94 Resp: 633

Ion Ratio Lower Upper

94 100

96 89.8 77.0 115.4



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

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

2.55

400

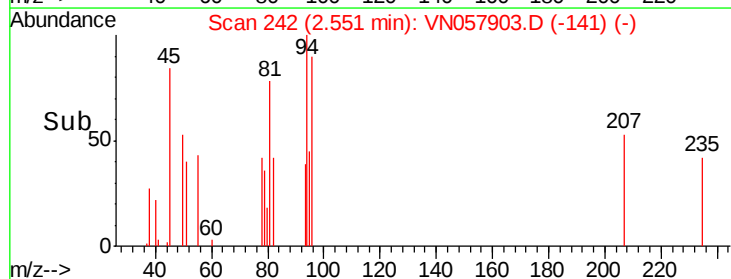
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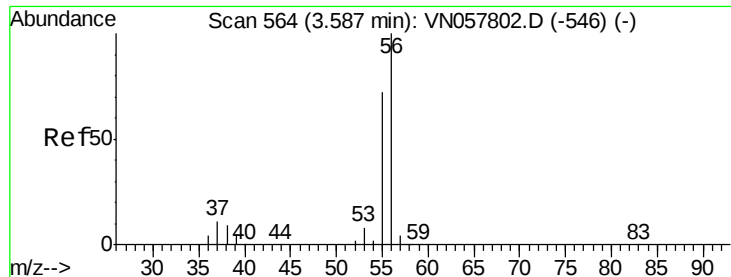
200

100

0

Time-->





#13

Acrolein

Concen: 0.216 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

Instrument :

MSVOA_N

ClientSampleId :

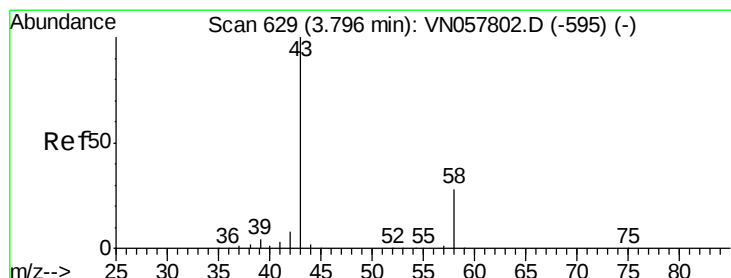
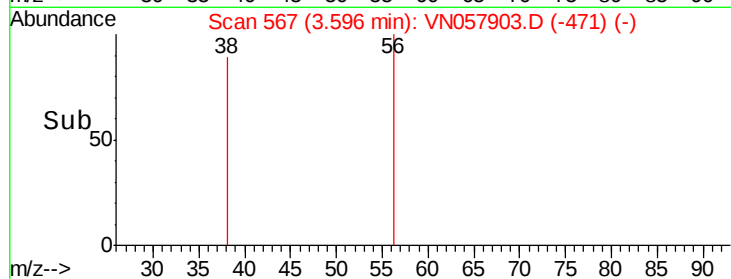
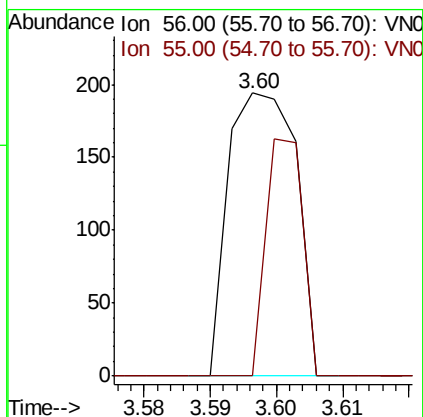
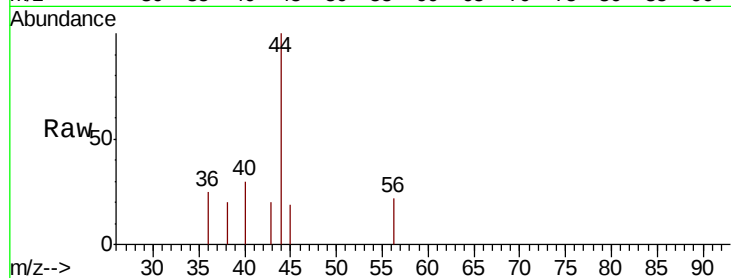
PAR-11-E1-(4)

Tgt Ion: 56 Resp: 138

Ion Ratio Lower Upper

56 100

55 44.9 57.3 85.9#



#16

Acetone

Concen: 6.398 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057903.D

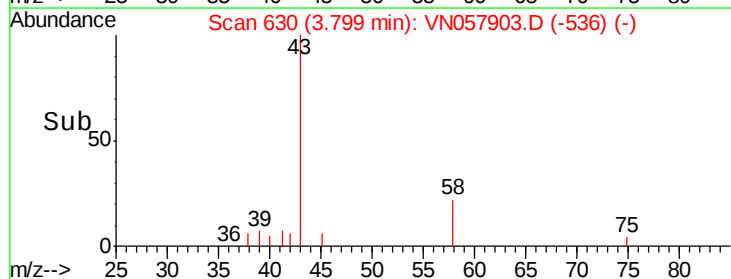
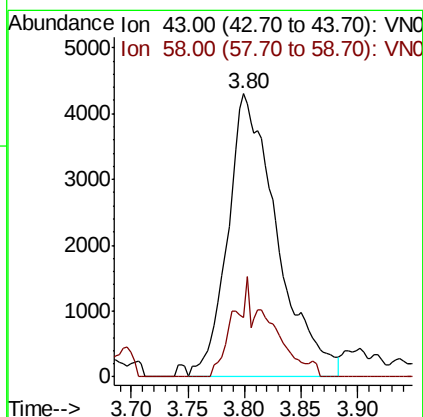
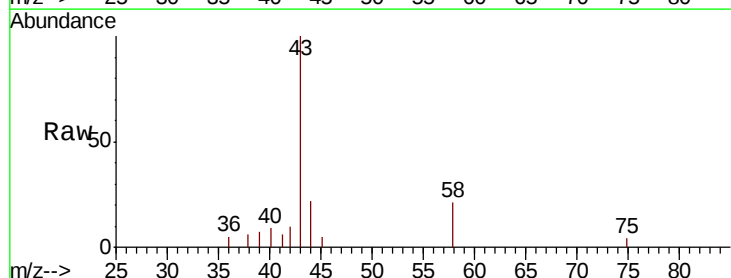
Acq: 11 Sep 2019 7:00

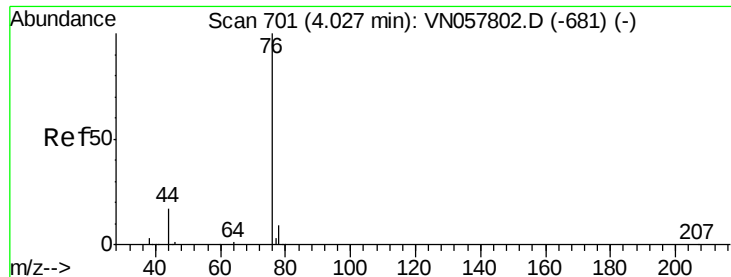
Tgt Ion: 43 Resp: 13043

Ion Ratio Lower Upper

43 100

58 20.8 22.2 33.2#

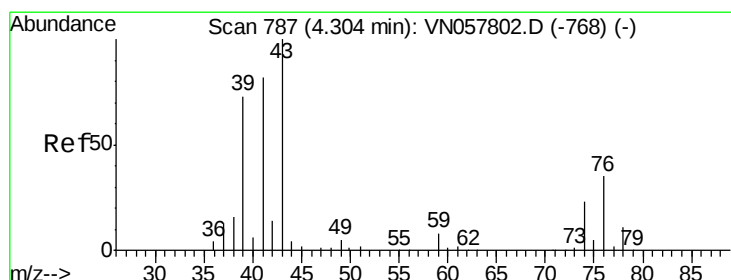
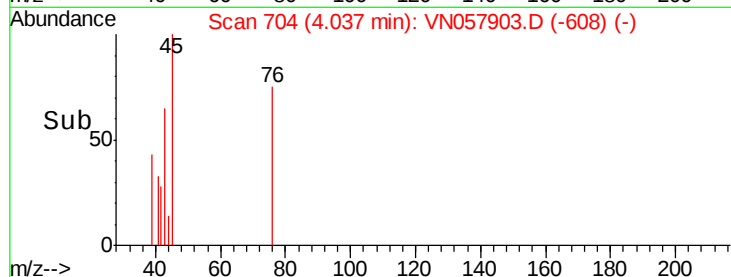
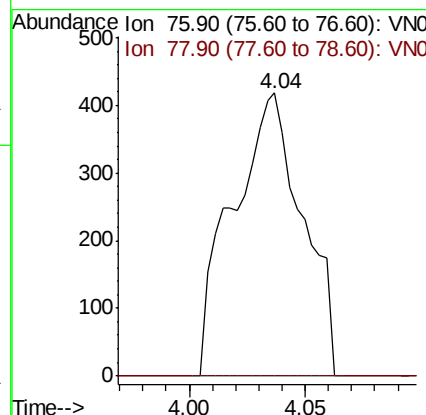
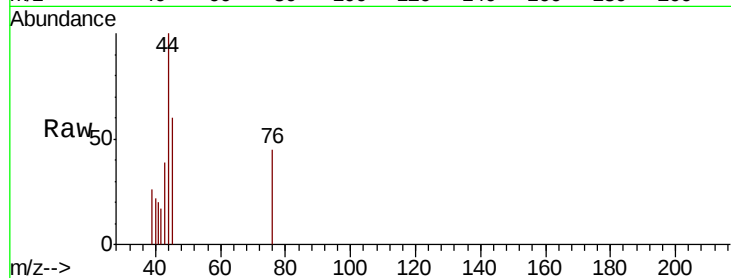




#17
Carbon Disulfide
Concen: 0.330 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.01 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

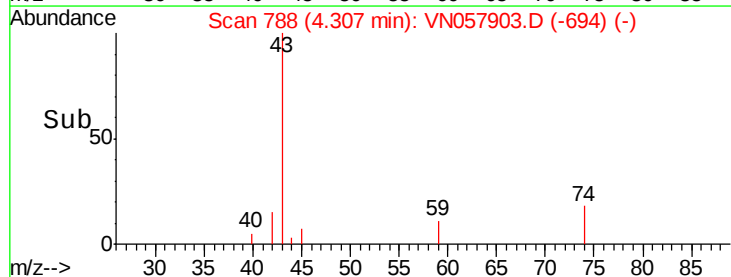
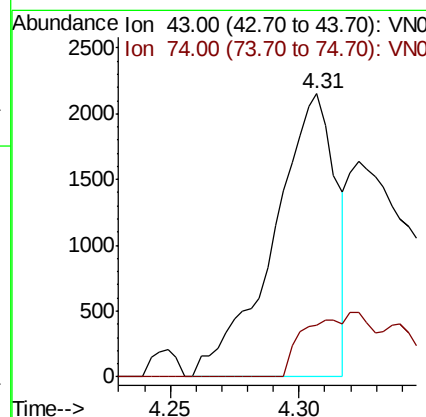
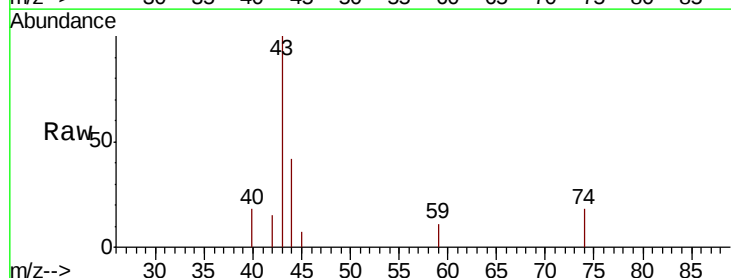
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E1-(4)

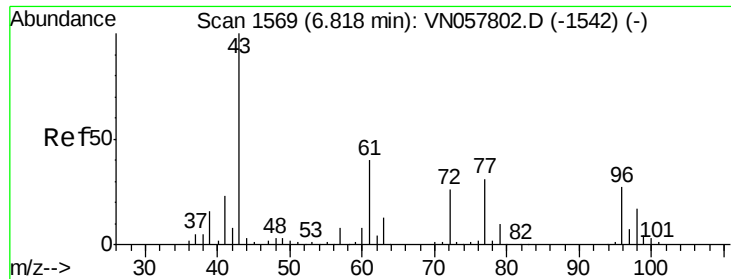
Tgt Ion: 76 Resp: 876
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 0.669 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

Tgt Ion: 43 Resp: 3635
Ion Ratio Lower Upper
43 100
74 23.1 17.9 26.9

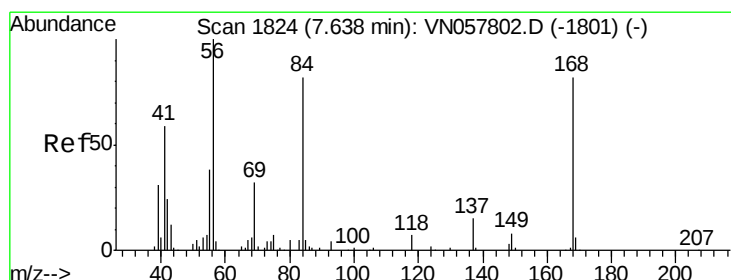
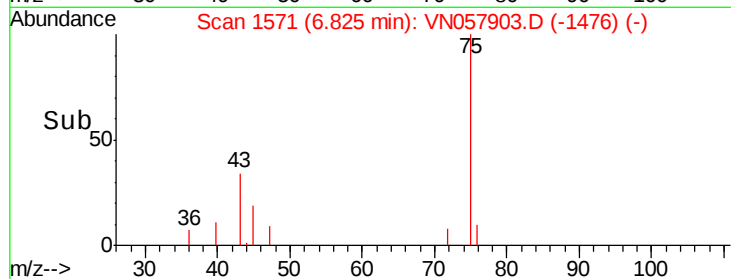
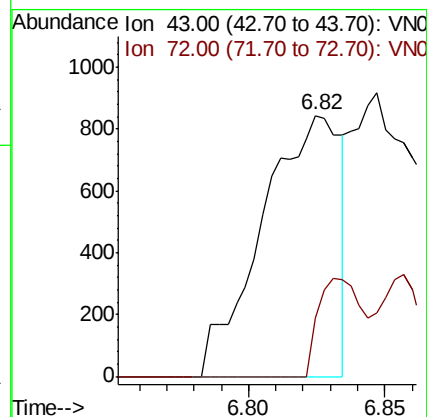
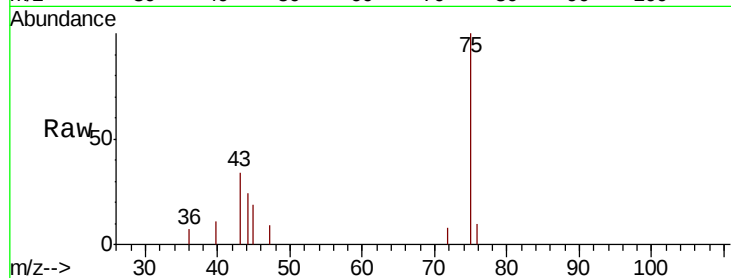




#25
2-Butanone
Concen: 0.569 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

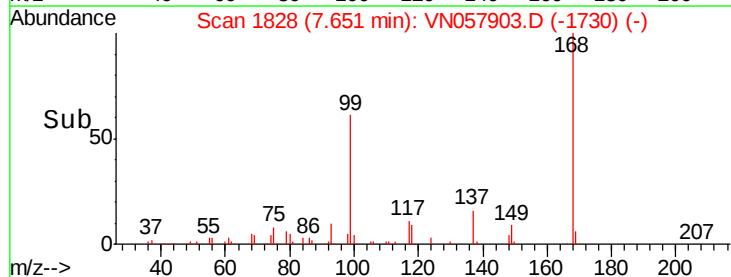
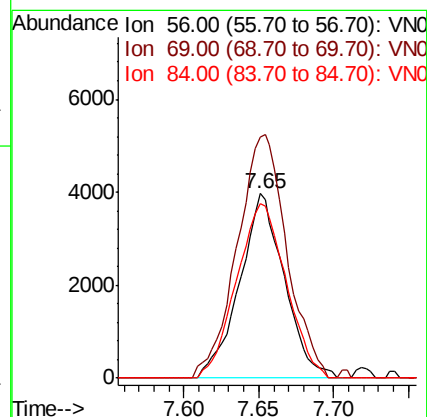
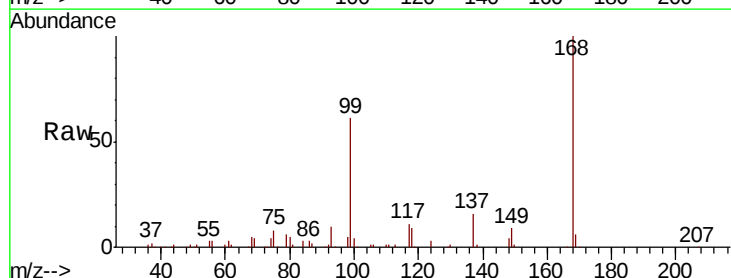
Instrument :
MSVOA_N
ClientSampled :
PAR-11-E1-(4)

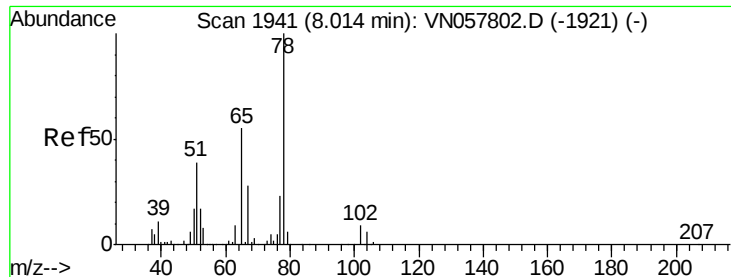
Tgt Ion: 43 Resp: 1680
Ion Ratio Lower Upper
43 100
72 22.5 20.6 30.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

Tgt Ion: 56 Resp: 8261
Ion Ratio Lower Upper
56 100
69 130.8 25.9 38.9#
84 94.3 65.6 98.4

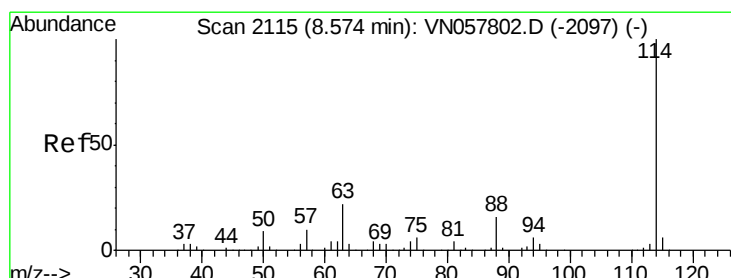
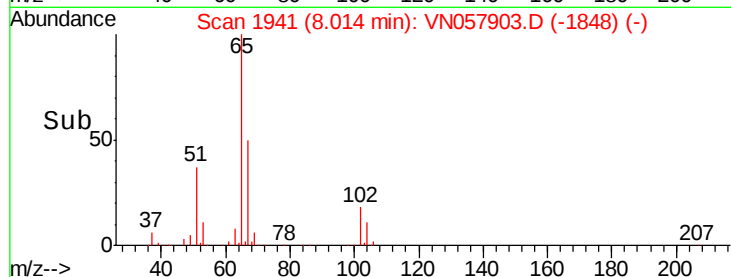
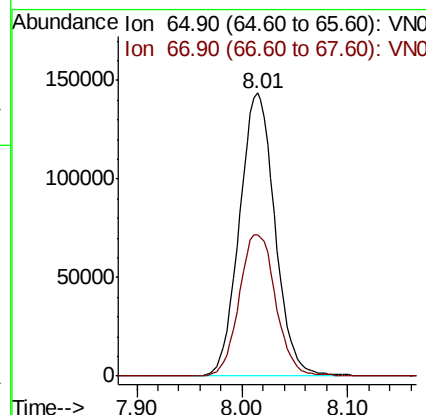
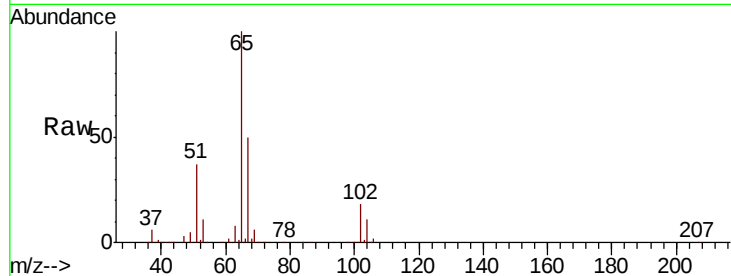




#33
 1,2-Dichloroethane-d4
 Concen: 53.929 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

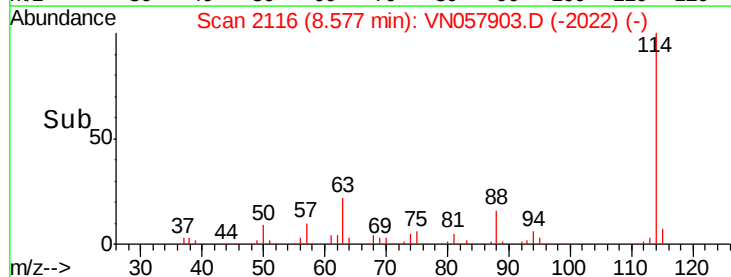
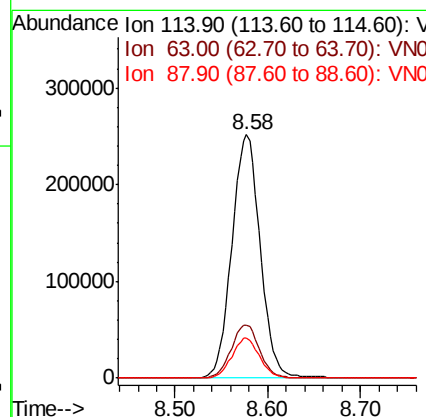
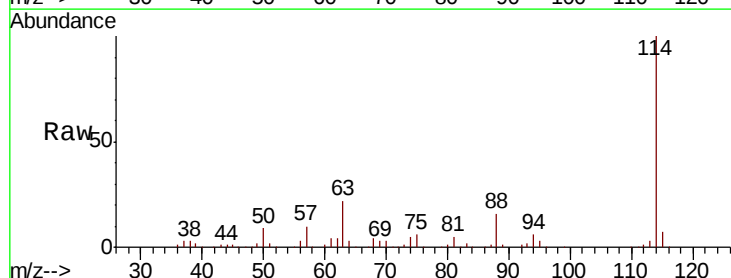
Instrument :
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 PAR-11-E1-(4)

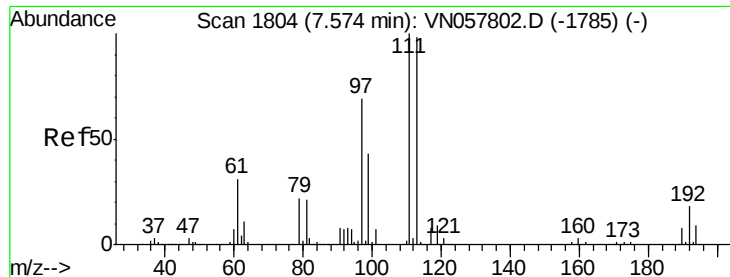
Tgt Ion: 65 Resp: 335375
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

Tgt Ion: 114 Resp: 534195
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.0
 88 16.4 0.0 31.4

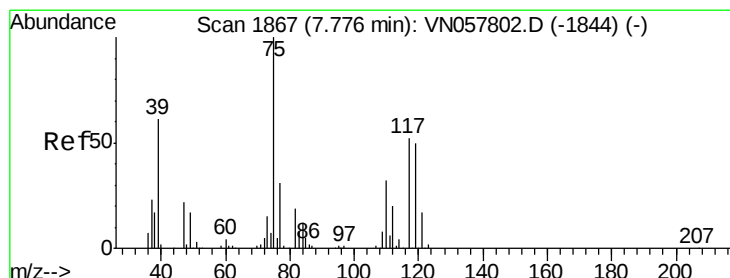
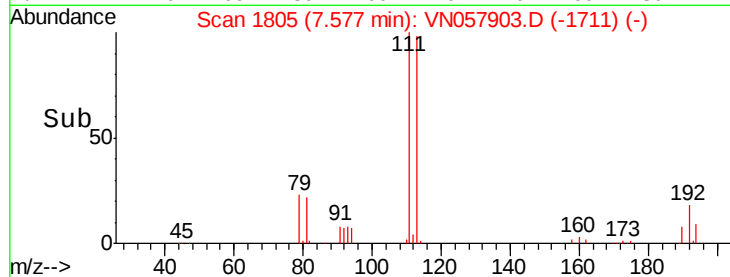
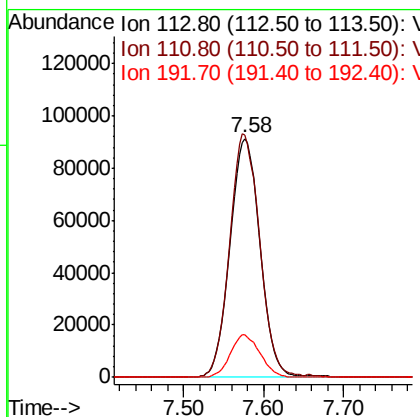
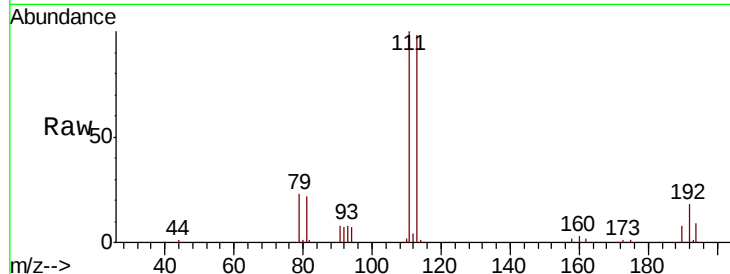




#35
 Dibromofluoromethane
 Concen: 47.213 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

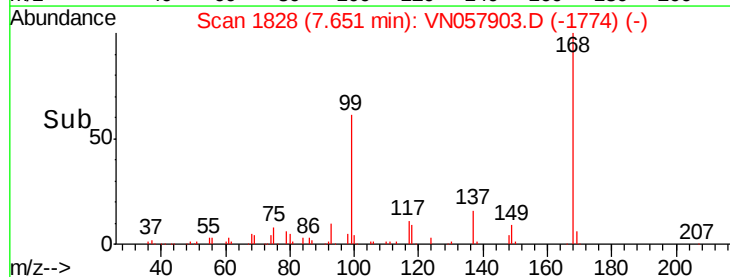
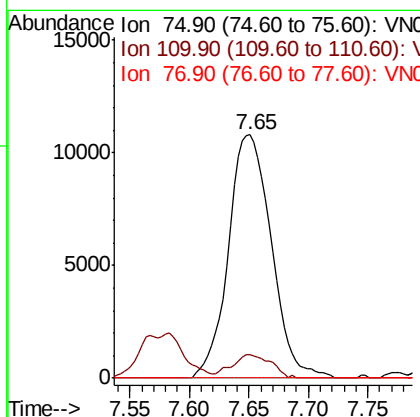
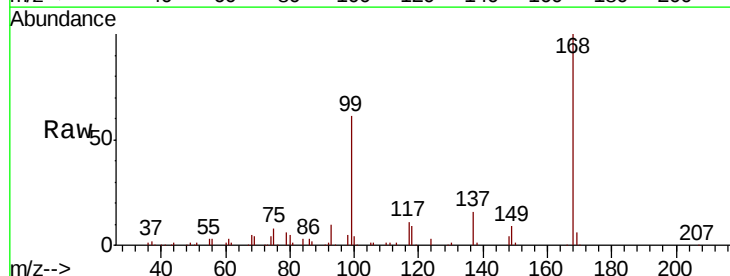
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 PAR-11-E1-(4)

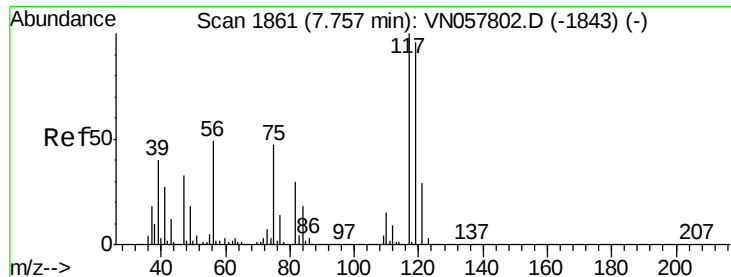
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.3	121.9
192	17.6	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.361 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.860 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(4)

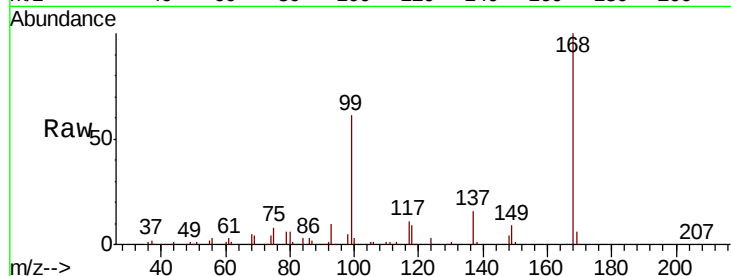
Tgt Ion:117 Resp: 33147

Ion Ratio Lower Upper

117 100

119 4.5 76.9 115.3#

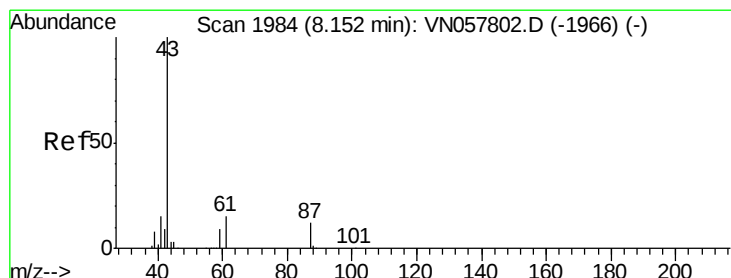
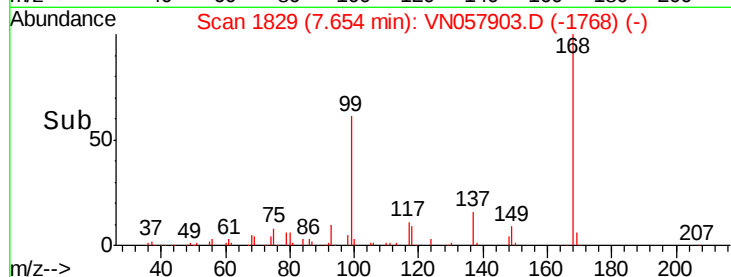
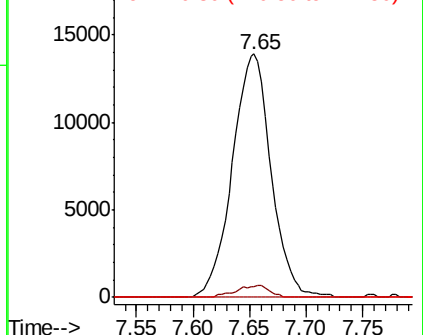
121 0.0 23.4 35.2#



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: 6.675 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

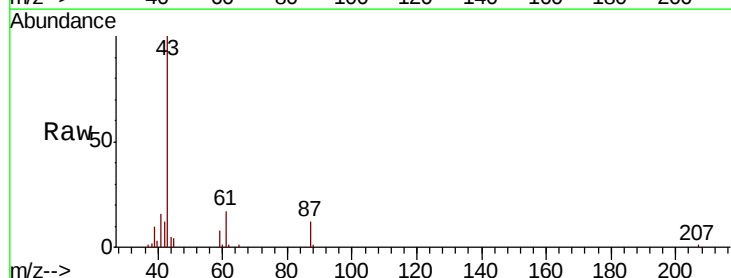
Tgt Ion: 43 Resp: 71855

Ion Ratio Lower Upper

43 100

61 18.3 20.1 30.1#

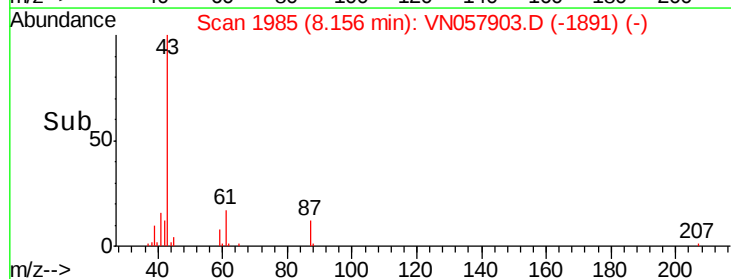
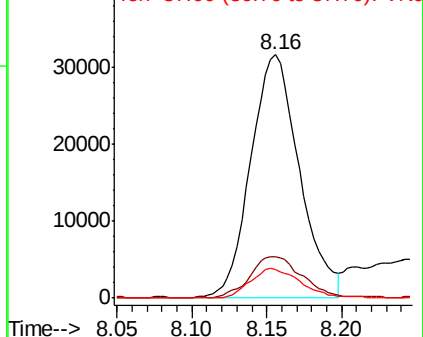
87 12.5 9.5 14.3

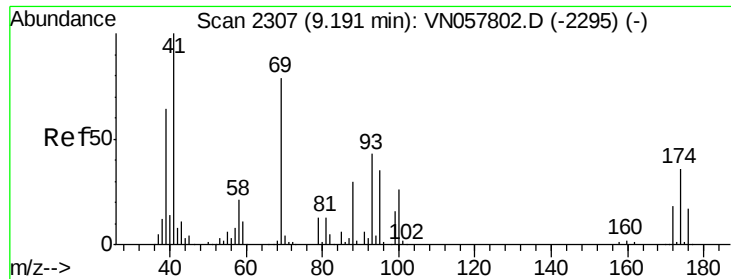


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

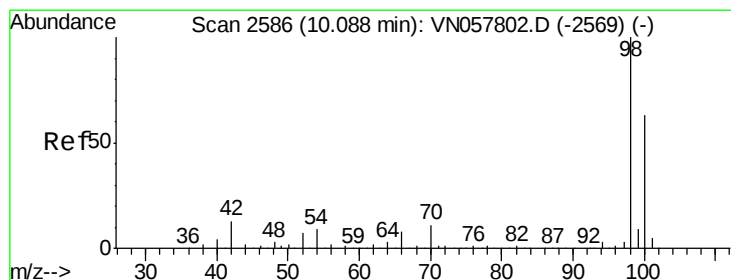
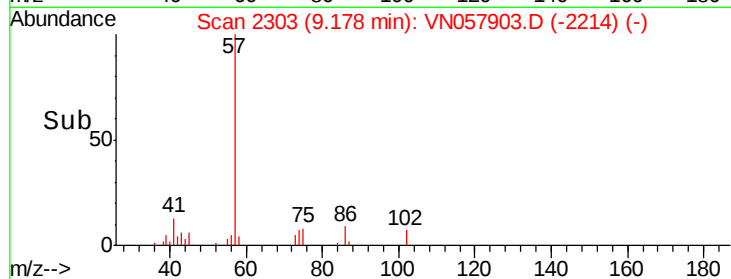
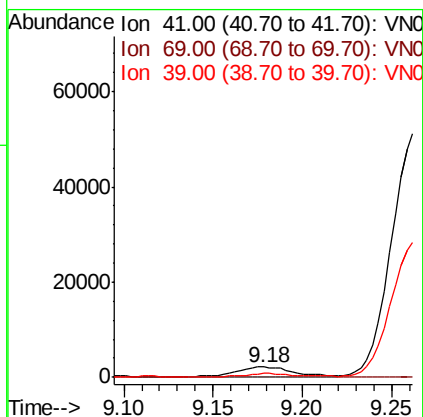
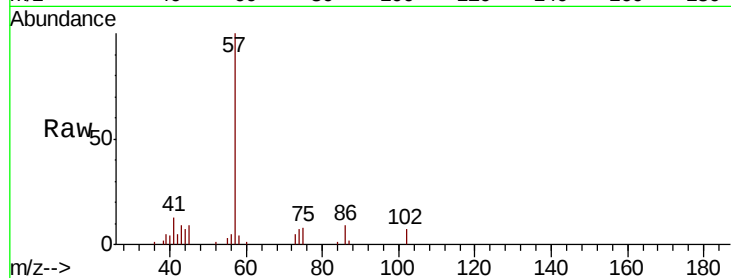




#48
Methyl methacrylate
Concen: 0.964 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

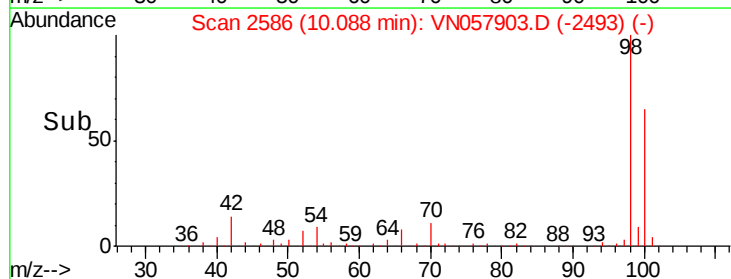
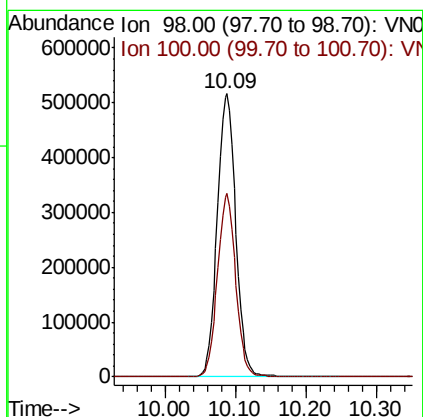
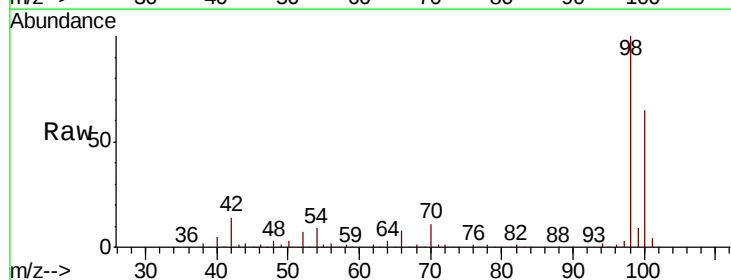
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E1-(4)

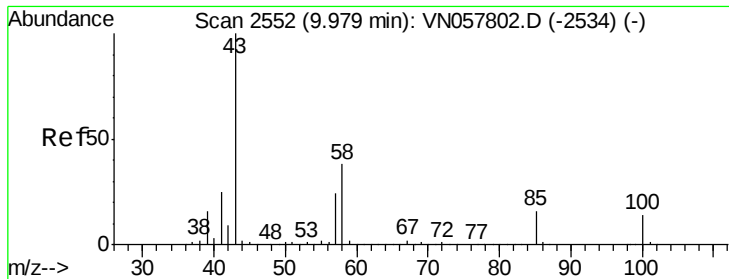
Tgt Ion: 41 Resp: 5265
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 34.2 52.7 79.1#



#50
Toluene-d8
Concen: 49.421 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

Tgt Ion: 98 Resp: 946042
Ion Ratio Lower Upper
98 100
100 63.6 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.288 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

Instrument :

MSVOA_N

ClientSampleId :

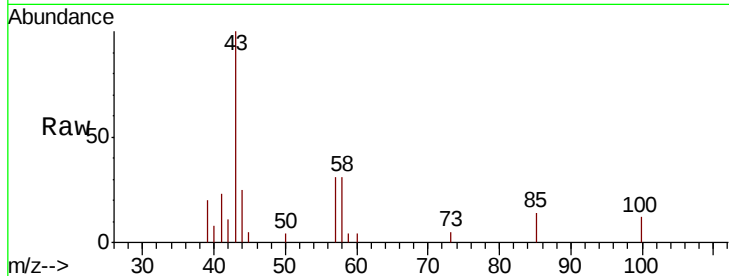
PAR-11-E1-(4)

Tgt Ion: 43 Resp: 8205

Ion Ratio Lower Upper

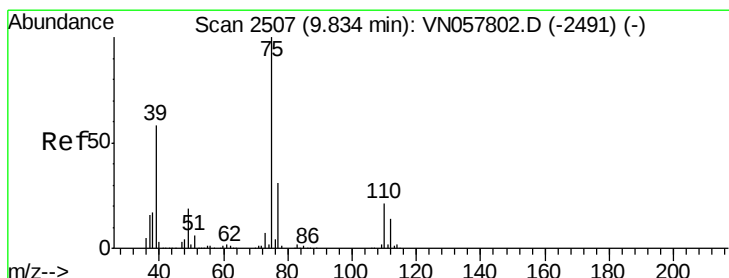
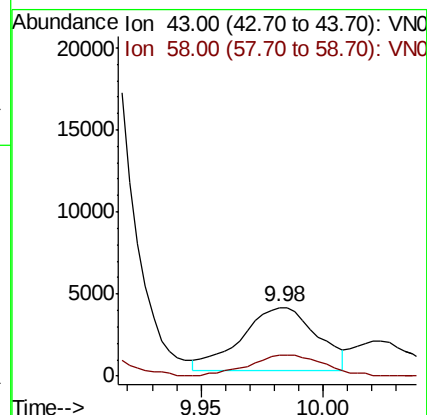
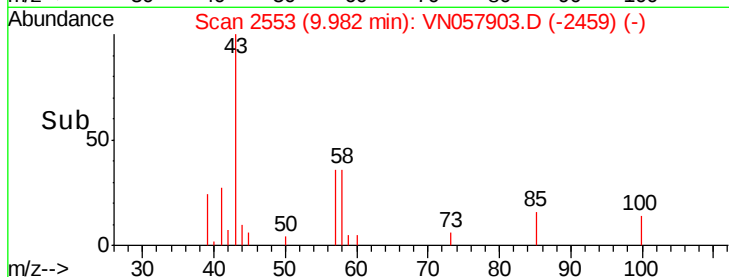
43 100

58 33.0 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) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.720 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

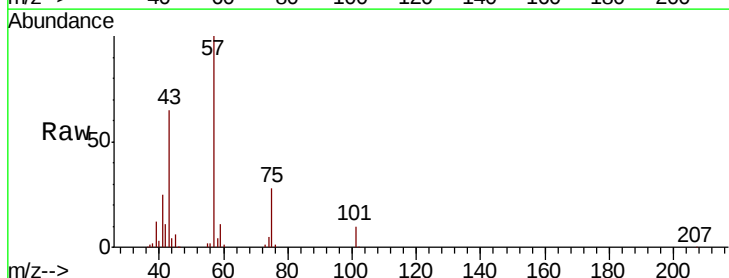
Tgt Ion: 75 Resp: 35940

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

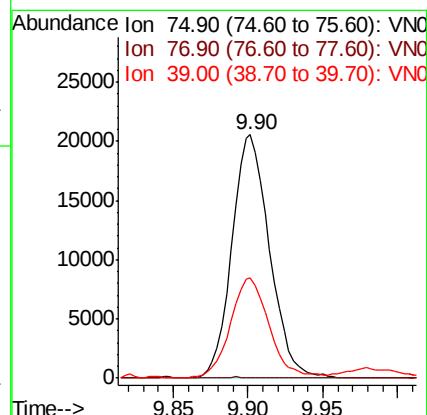
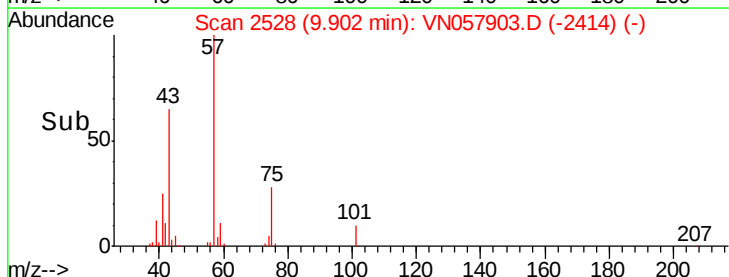
39 40.6 46.2 69.4#

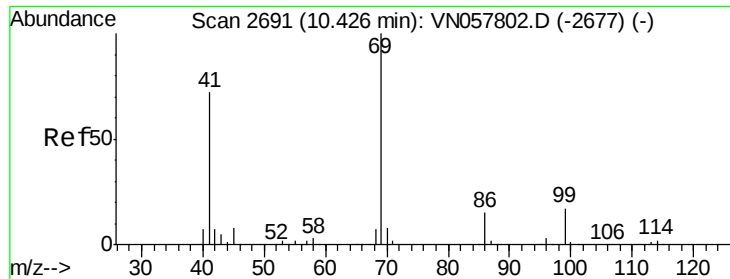


Abundance Ion 74.90 (74.60 to 75.60): VN057903.D (-2414) (-)

Ion 76.90 (76.60 to 77.60): VN057903.D (-2414) (-)

Ion 39.00 (38.70 to 39.70): VN057903.D (-2414) (-)





#56

Ethyl methacrylate

Concen: 0.223 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(4)

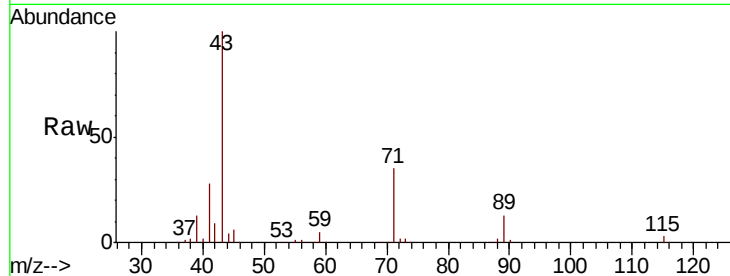
Tgt Ion: 69 Resp: 1672

Ion Ratio Lower Upper

69 100

41 5848.4 56.7 85.1#

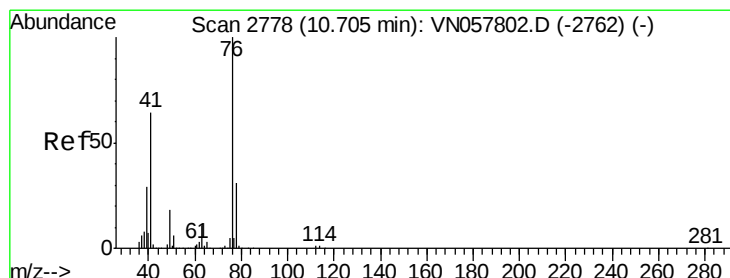
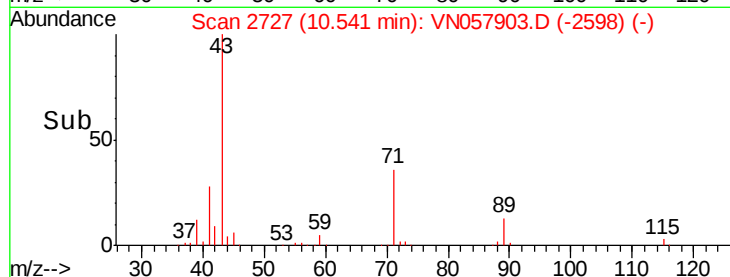
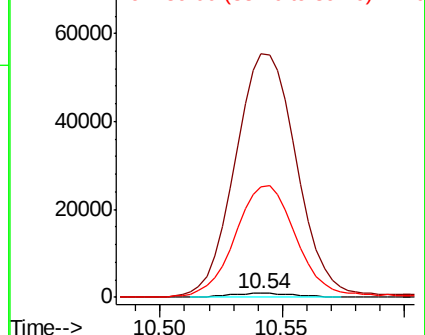
39 2676.1 36.3 54.5#



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: 0.530 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057903.D

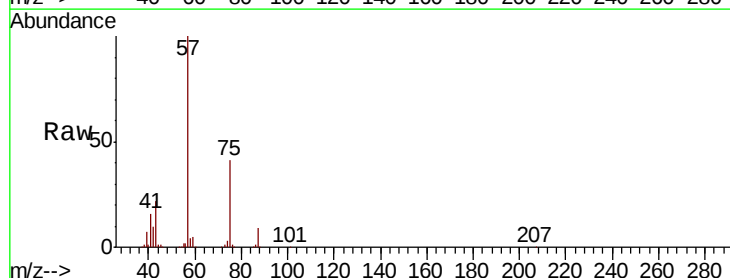
Acq: 11 Sep 2019 7:00

Tgt Ion: 76 Resp: 4541

Ion Ratio Lower Upper

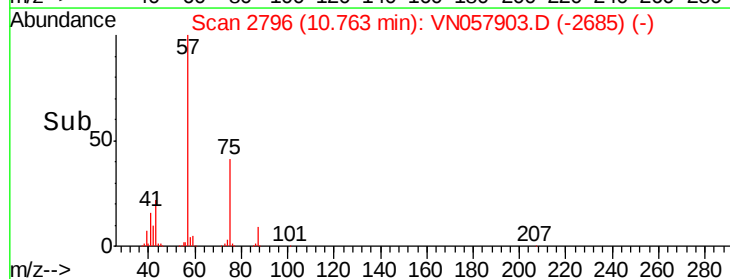
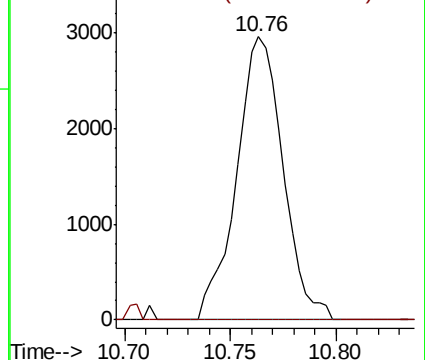
76 100

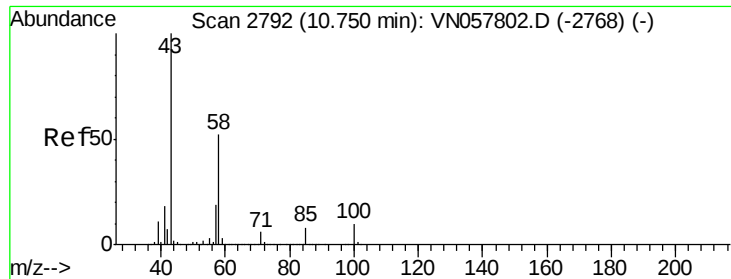
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 15.222 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

Instrument :

MSVOA_N

ClientSampleId :

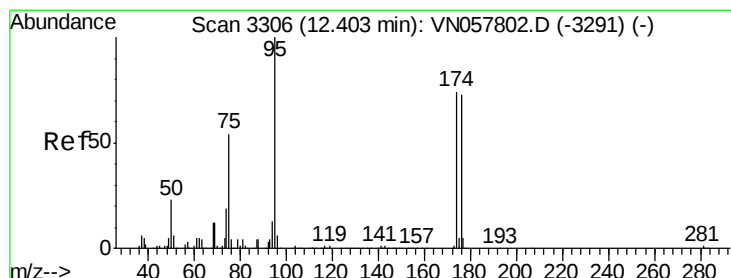
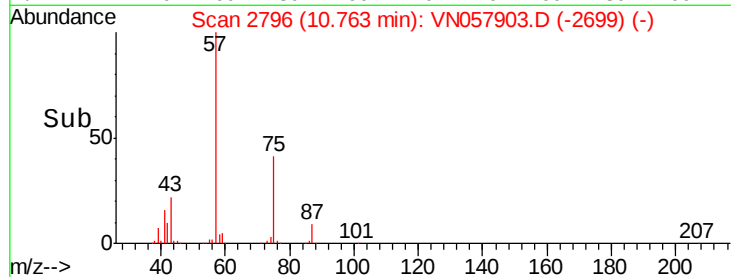
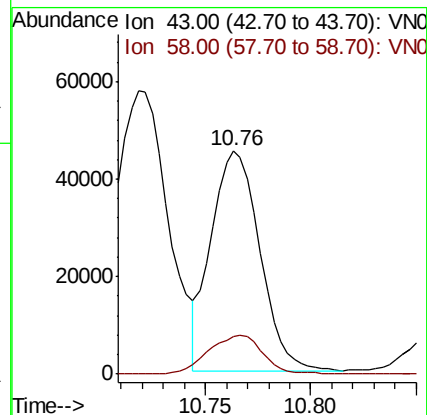
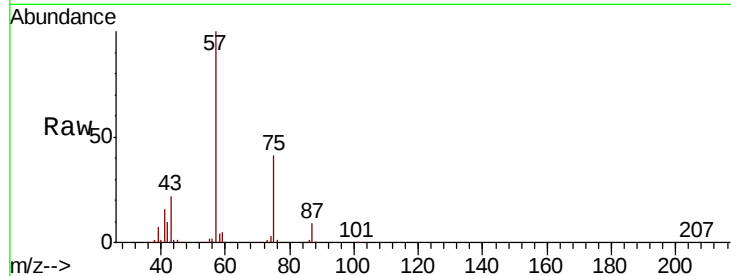
PAR-11-E1-(4)

Tgt Ion: 43 Resp: 72675

Ion Ratio Lower Upper

43 100

58 19.9 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 42.581 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

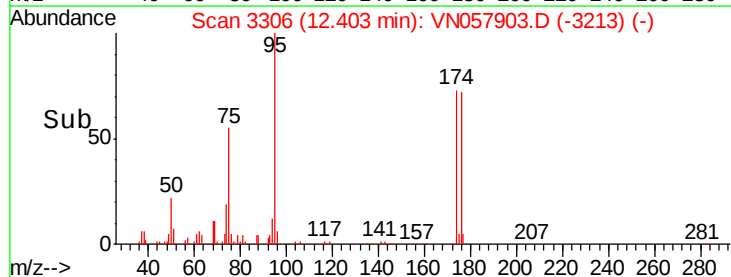
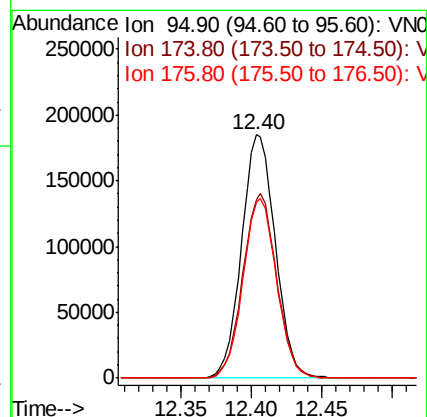
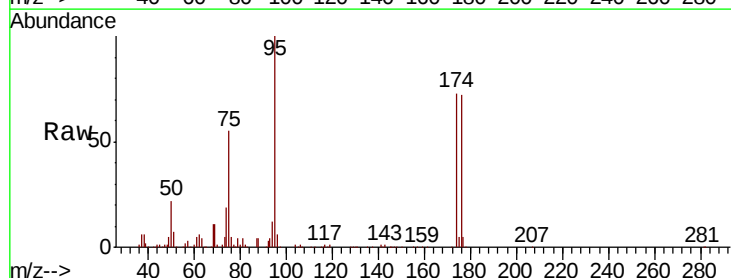
Tgt Ion: 95 Resp: 310624

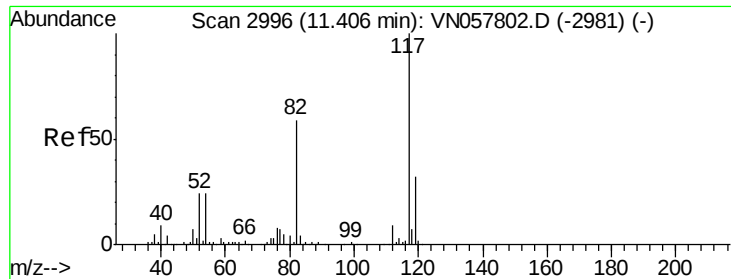
Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.2

176 73.4 0.0 146.0

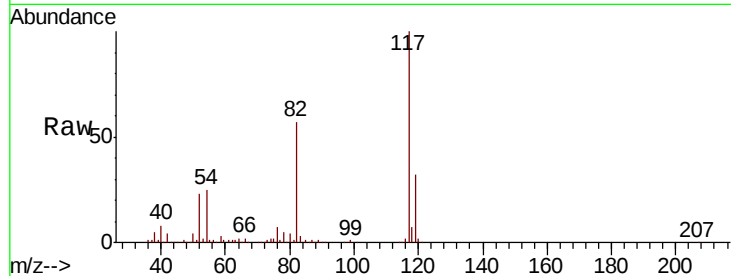




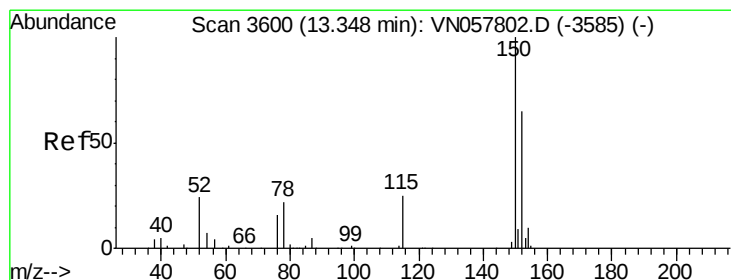
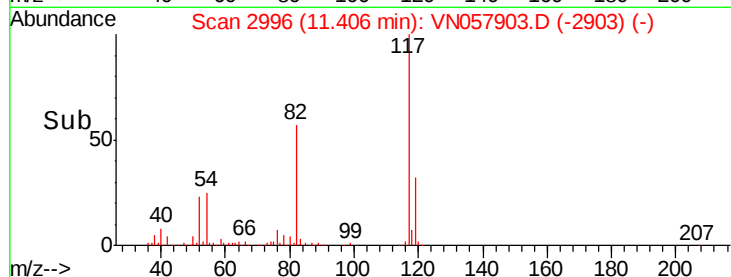
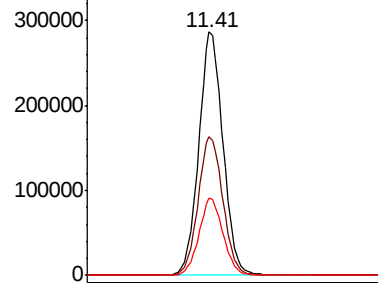
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E1-(4)

Tgt Ion:117 Resp: 492403
Ion Ratio Lower Upper
117 100
82 56.9 47.2 70.8
119 31.6 25.3 37.9

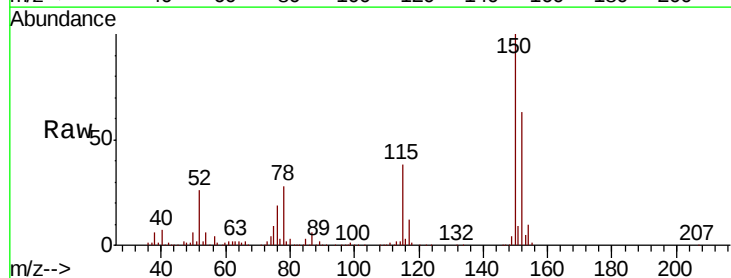


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

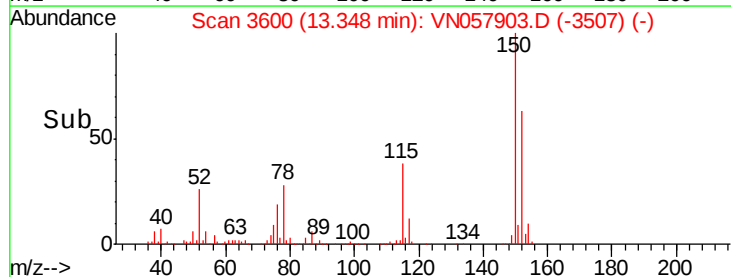
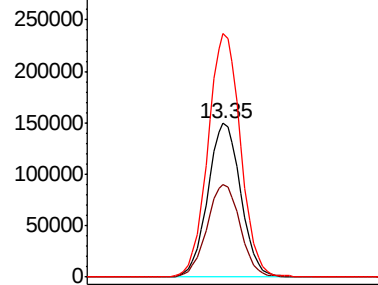


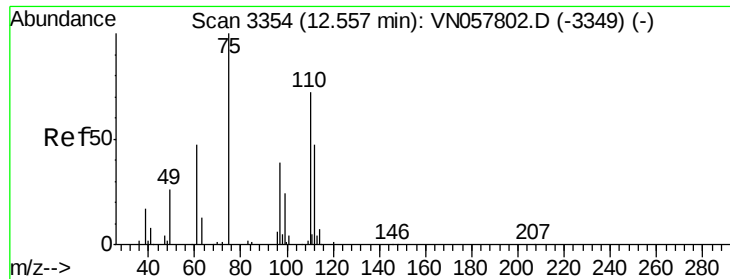
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057903.D
Acq: 11 Sep 2019 7:00

Tgt Ion:152 Resp: 251337
Ion Ratio Lower Upper
152 100
115 60.5 30.3 91.0
150 156.4 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

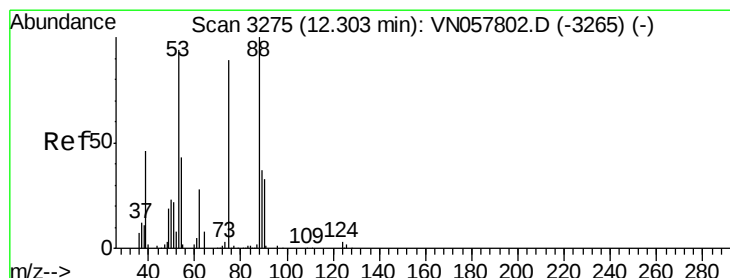
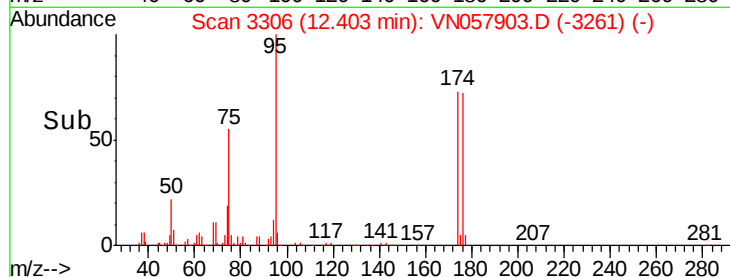
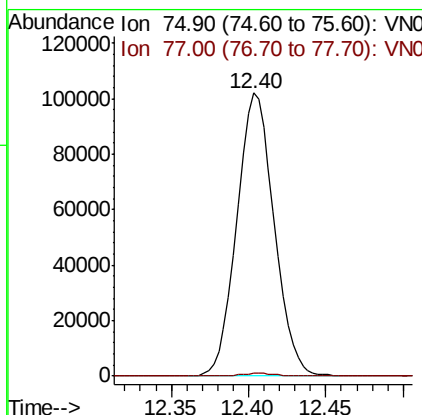
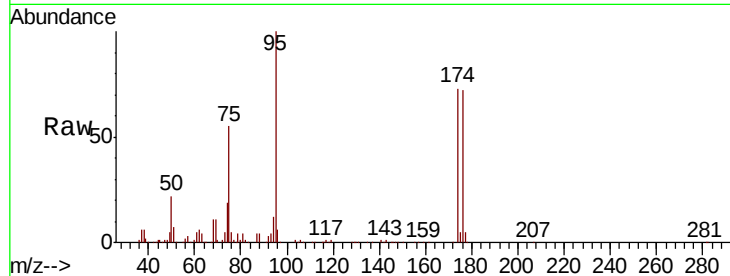




#76
 1,2,3-Trichloropropane
 Concen: 30.049 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

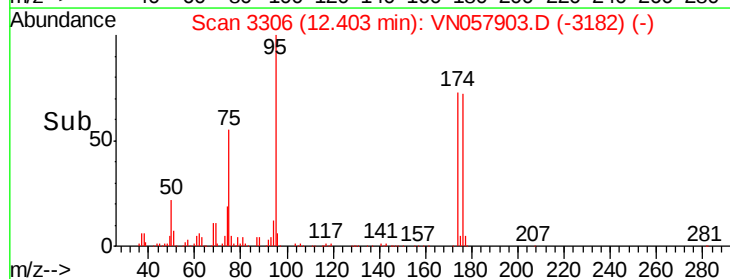
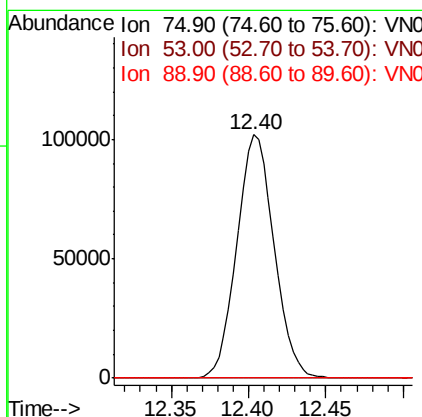
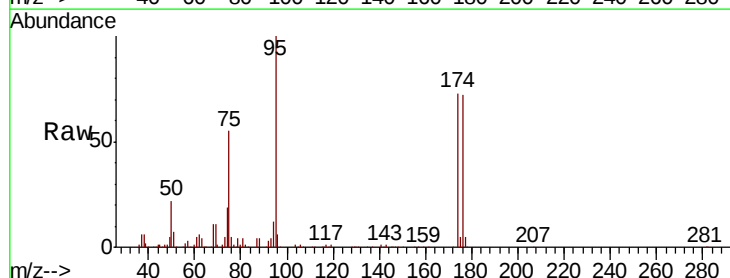
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E1-(4)

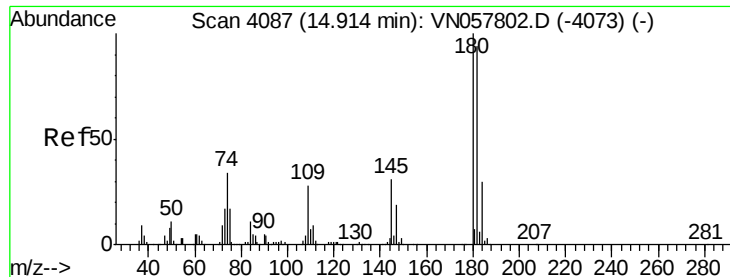
Tgt Ion: 75 Resp: 170849
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.743 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

Tgt Ion: 75 Resp: 170849
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

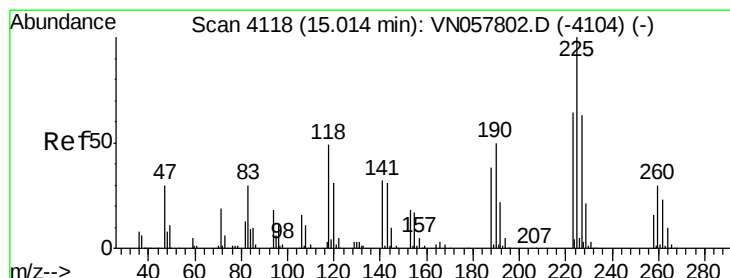
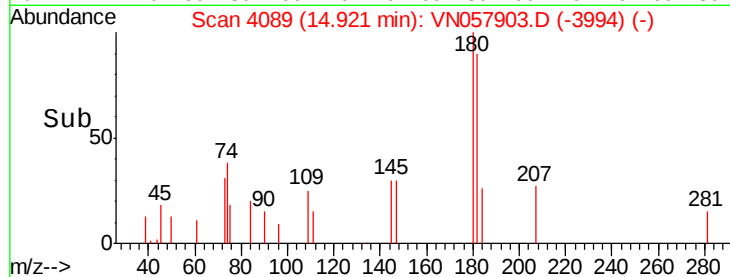
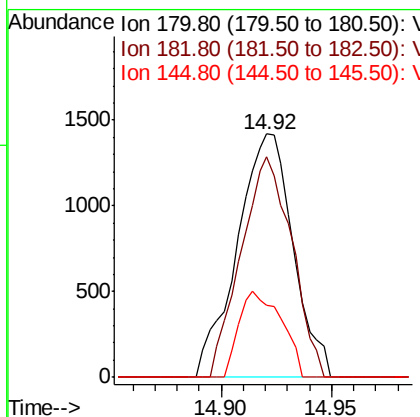
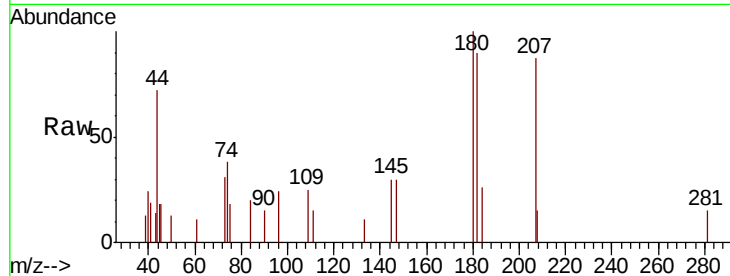




#93
 1,2,4-Trichlorobenzene
 Concen: 0.428 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

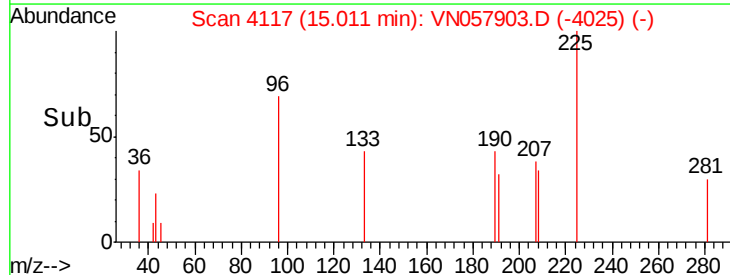
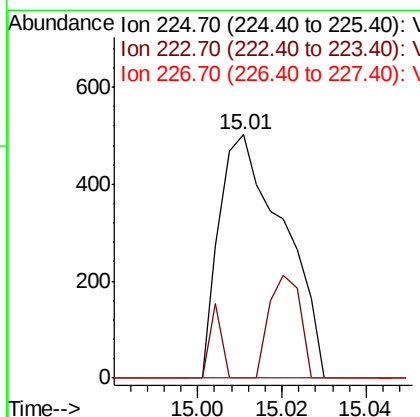
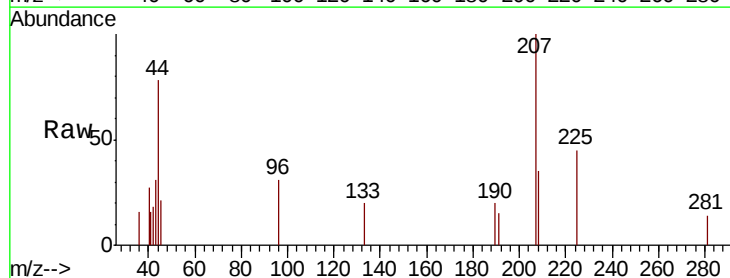
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E1-(4)

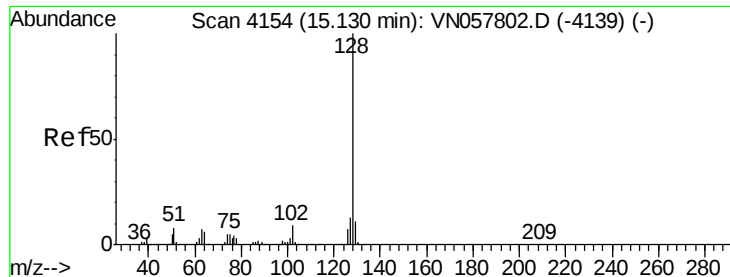
Tgt Ion:180 Resp: 2496
 Ion Ratio Lower Upper
 180 100
 182 82.1 46.9 140.8
 145 26.9 14.9 44.7



#94
 Hexachlorobutadiene
 Concen: 0.215 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057903.D
 Acq: 11 Sep 2019 7:00

Tgt Ion:225 Resp: 530
 Ion Ratio Lower Upper
 225 100
 223 5.7 32.4 97.2#
 227 0.0 31.8 95.4#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(4)

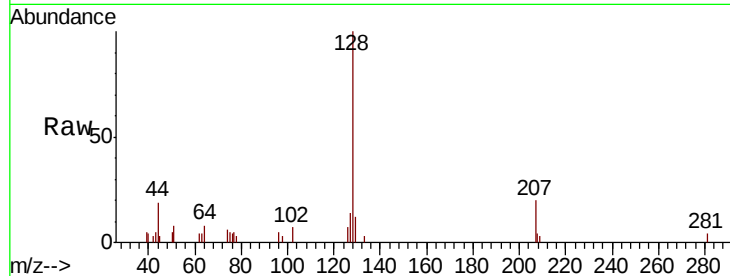
Tgt Ion:128 Resp: 10251

Ion Ratio Lower Upper

128 100

127 11.1 10.3 15.5

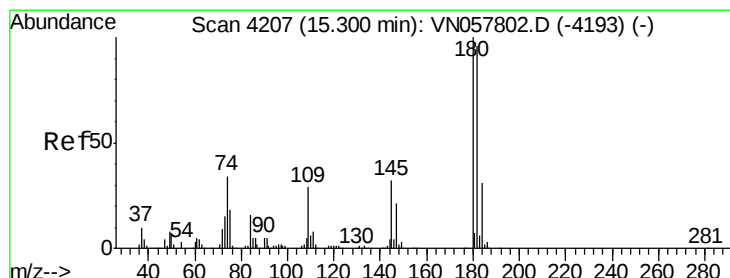
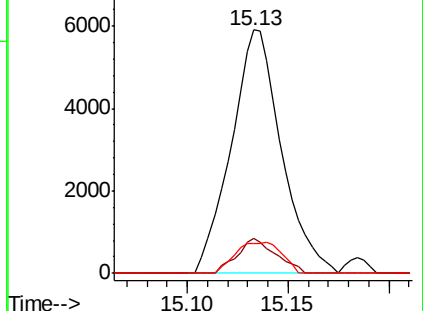
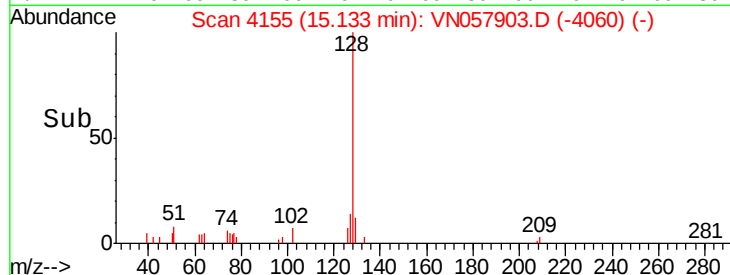
129 11.9 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 1.536 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057903.D

Acq: 11 Sep 2019 7:00

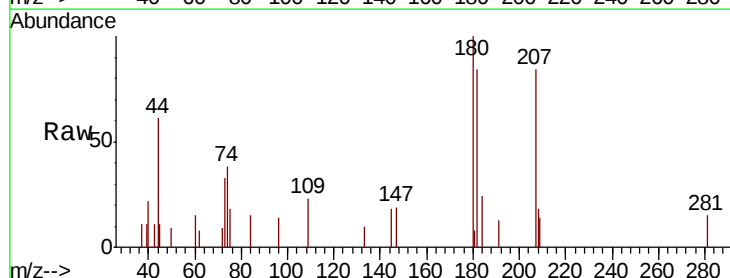
Tgt Ion:180 Resp: 2792

Ion Ratio Lower Upper

180 100

182 101.2 48.3 144.8

145 9.7 16.3 48.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

