

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057921.D
 Acq On : 11 Sep 2019 13:35
 Operator : JC/SP
 Sample : K4622-38
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-B4-(4)

Quant Time: Sep 12 01:33:22 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	281771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	485360	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	442914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	224787	50.00	ug/l	0.00

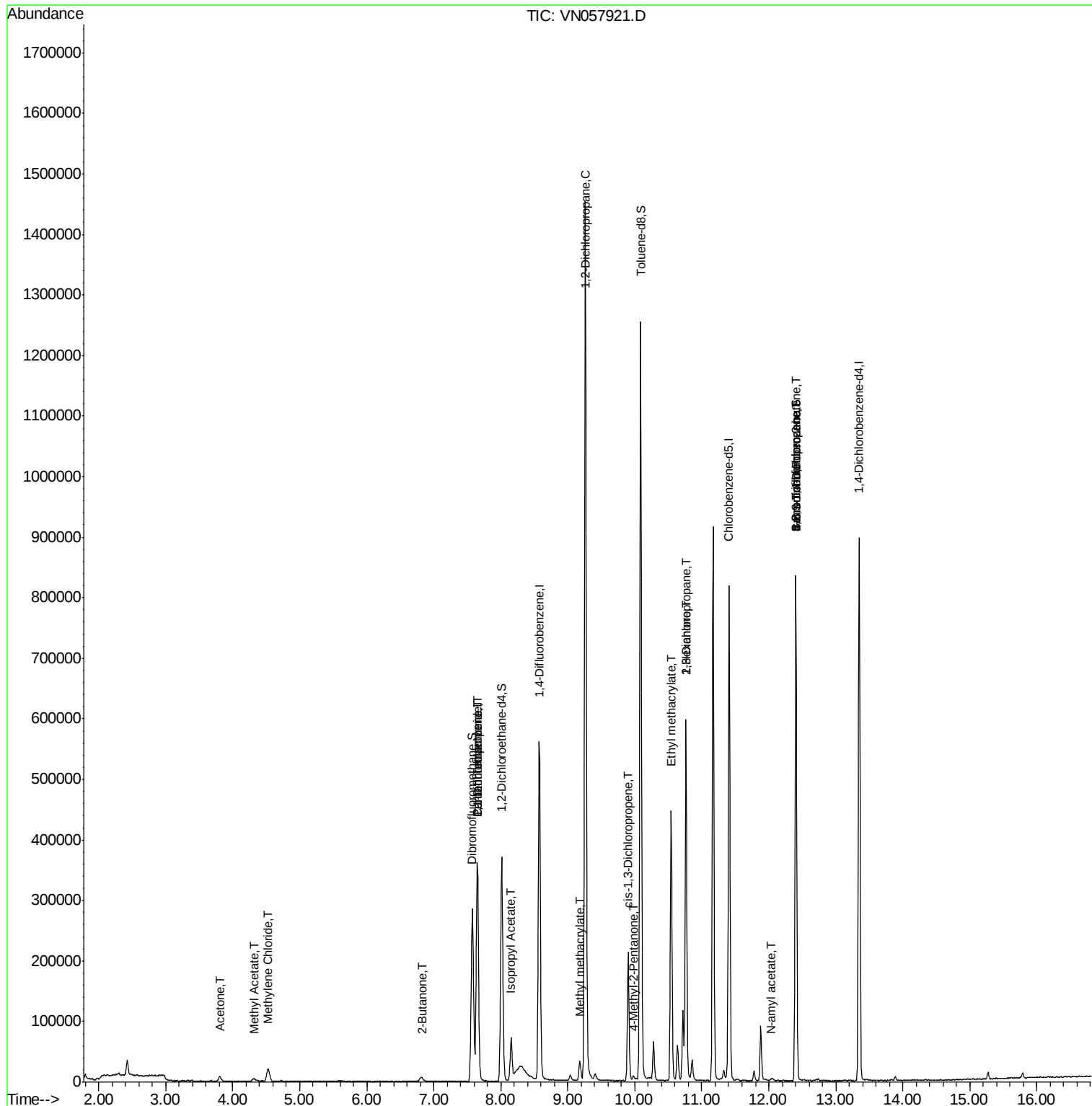
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	317420	55.62	ug/l	0.00
Spiked Amount			Recovery	=	111.24%	
35) Dibromofluoromethane	7.58	113	217000	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
50) Toluene-d8	10.09	98	851458	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	12.41	95	284879	42.98	ug/l	0.00
Spiked Amount			Recovery	=	85.96%	

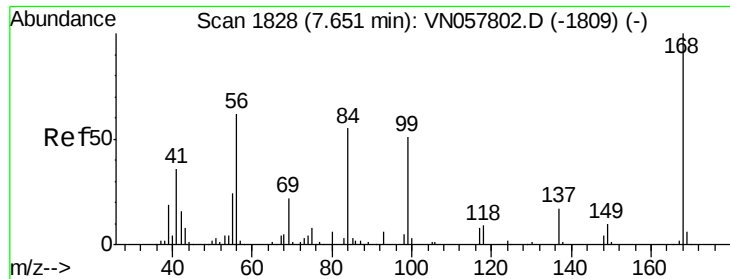
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	136	Below Cal	#	2
16) Acetone	3.80	43	14293	7.640	ug/l	95
18) Methyl Acetate	4.31	43	8242	1.652	ug/l #	86
20) Methylene Chloride	4.53	84	15585	3.224	ug/l	95
25) 2-Butanone	6.84	43	816	0.301	ug/l #	63
31) Cyclohexane	7.65	56	6957	Below Cal	#	14
36) 1,1-Dichloropropene	7.65	75	25127	4.464	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30327	5.901	ug/l #	15
43) Isopropyl Acetate	8.15	43	84319	8.621	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	1952	0.396	ug/l #	44
48) Methyl methacrylate	9.18	41	5082	1.024	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	4396	0.760	ug/l #	81
54) cis-1,3-Dichloropropene	9.90	75	35803	5.175	ug/l #	62
56) Ethyl methacrylate	10.54	69	1492	0.219	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5732	0.736	ug/l #	43
59) 2-Hexanone	10.76	43	91466	21.085	ug/l #	53
71) Bromoform	12.40	173	1076	0.429	ug/l #	1
74) N-amyl acetate	12.04	43	2326	0.306	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	153510	30.188	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	153510	106.233	ug/l #	6
95) Naphthalene	15.14	128	538	Below Cal	#	85

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN091119\  
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Quant Title : SW846 8260
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: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

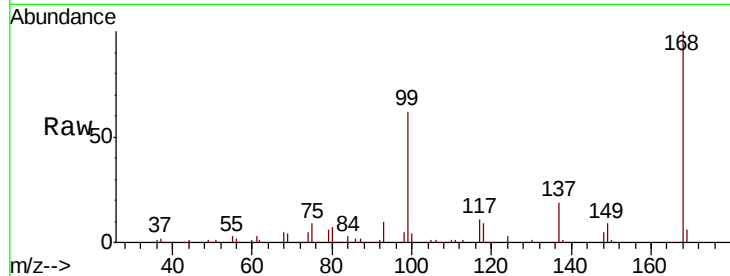
PAR-11-B4-(4)

Tgt Ion:168 Resp: 281771

Ion Ratio Lower Upper

168 100

99 61.7 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) (-)

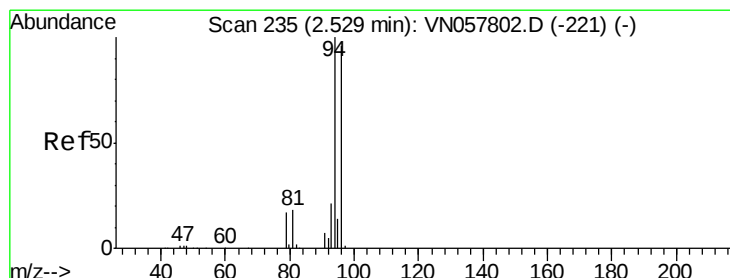
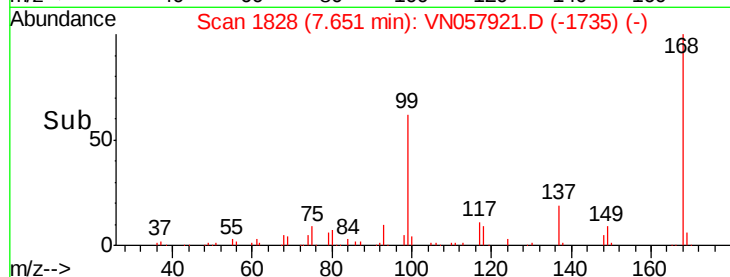
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN057921.D

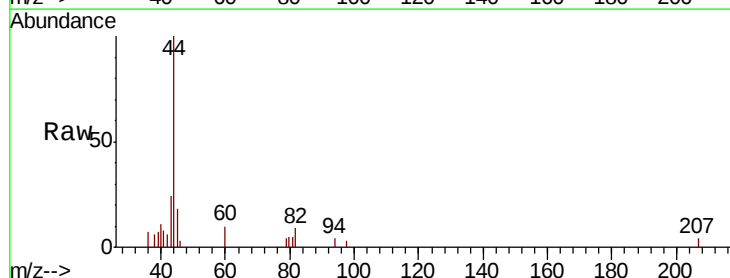
Acq: 11 Sep 2019 13:35

Tgt Ion: 94 Resp: 136

Ion Ratio Lower Upper

94 100

96 0.0 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) (-)

2.54

200

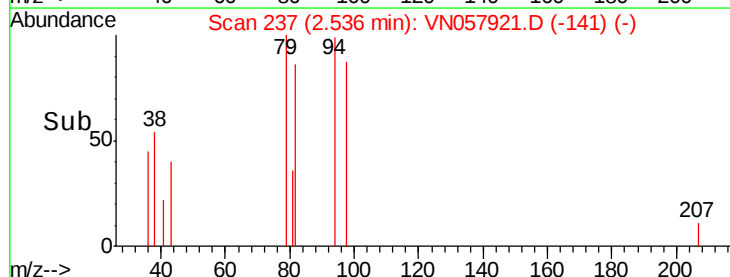
150

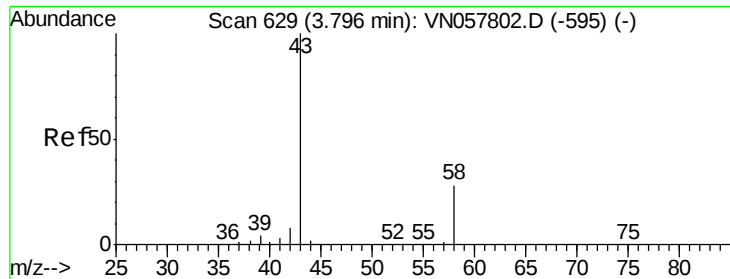
100

50

0

Time-->





#16

Acetone

Concen: 7.640 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

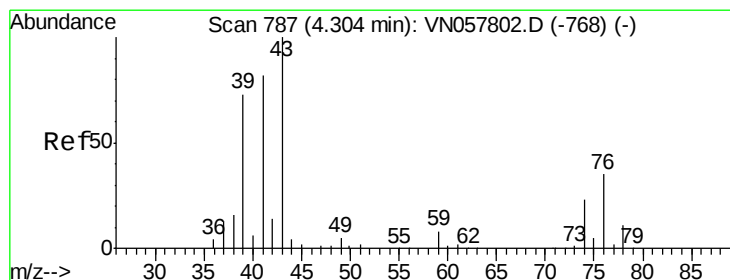
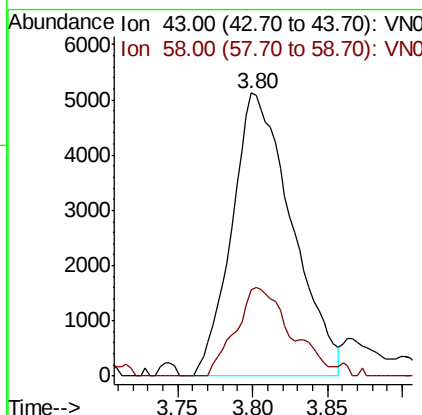
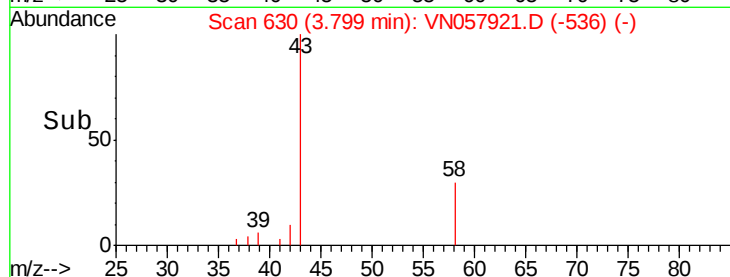
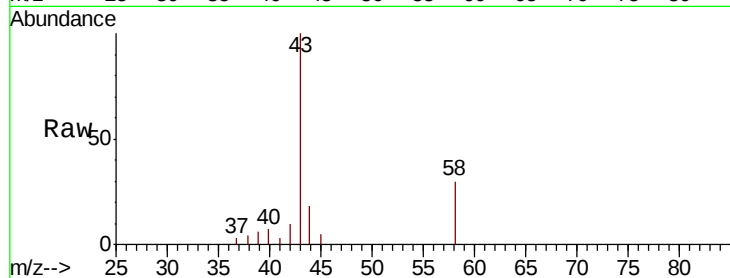
PAR-11-B4-(4)

Tgt Ion: 43 Resp: 14293

Ion Ratio Lower Upper

43 100

58 30.3 22.2 33.2



#18

Methyl Acetate

Concen: 1.652 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN057921.D

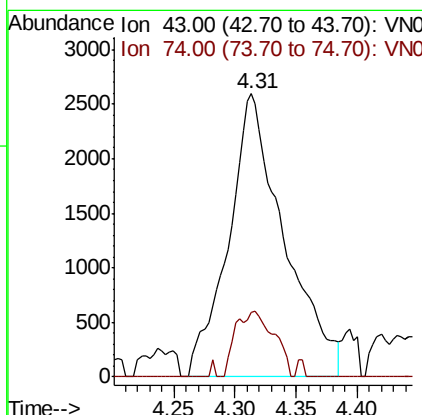
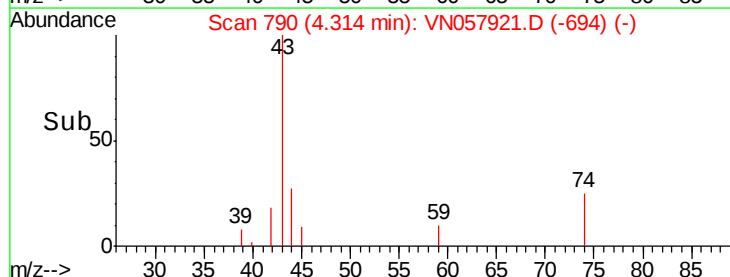
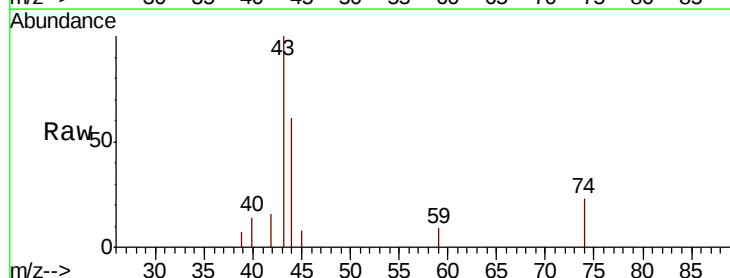
Acq: 11 Sep 2019 13:35

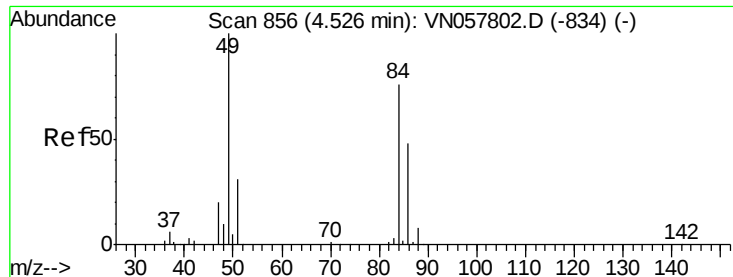
Tgt Ion: 43 Resp: 8242

Ion Ratio Lower Upper

43 100

74 15.9 17.9 26.9#

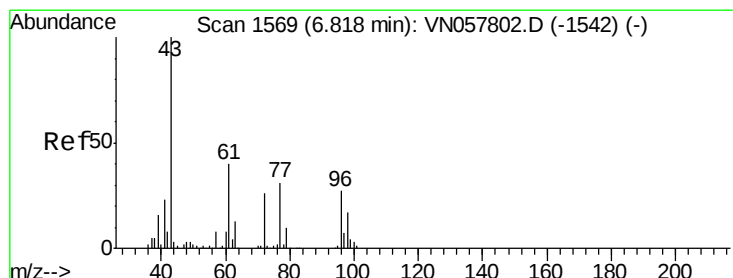
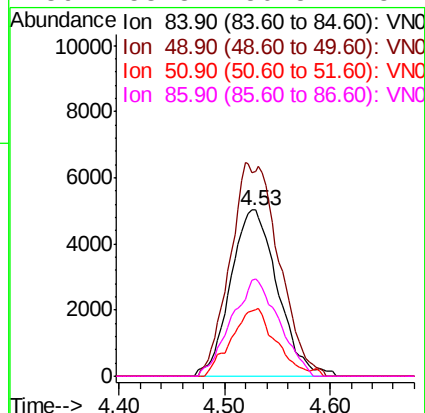
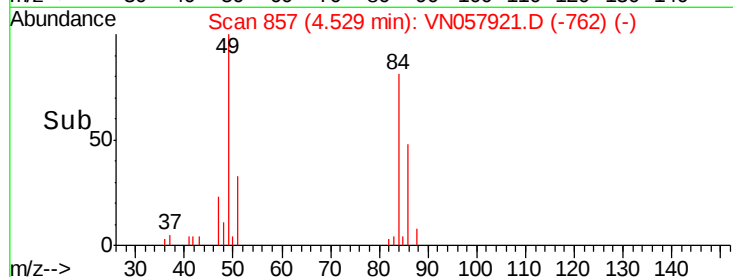
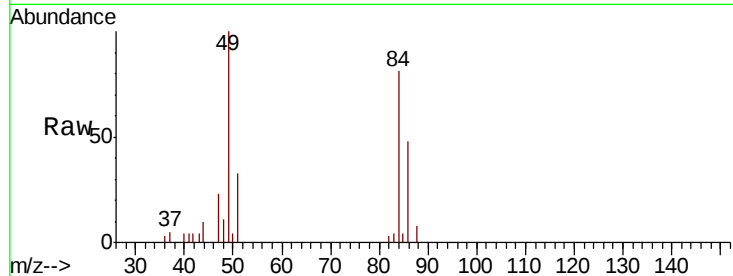




#20
Methylene Chloride
Concen: 3.224 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

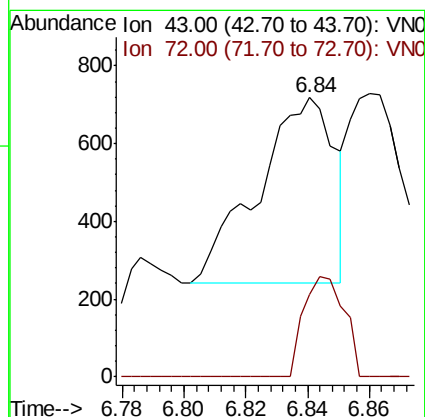
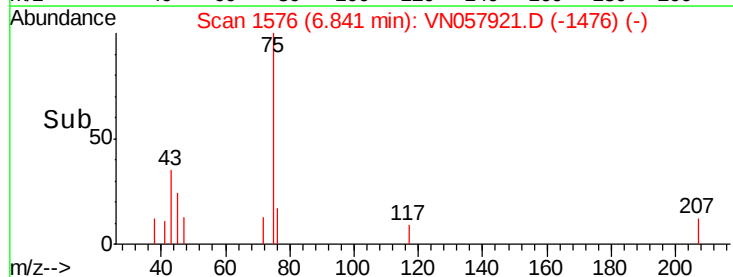
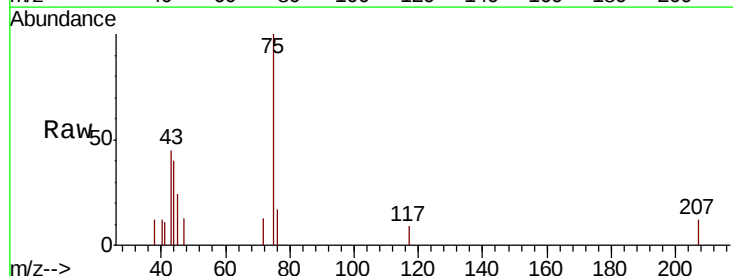
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-B4-(4)

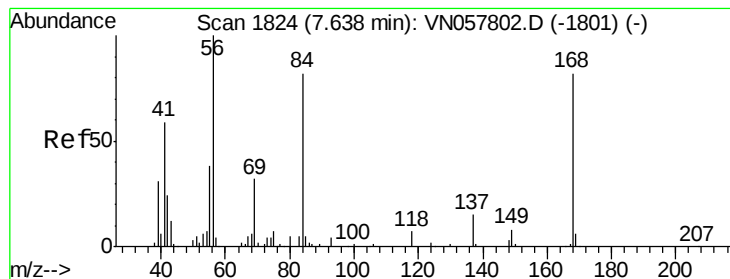
Tgt Ion:	84	Resp:	15585
Ion	Ratio	Lower	Upper
84	100		
49	123.1	104.8	157.2
51	40.4	33.0	49.4
86	58.8	50.5	75.7



#25
2-Butanone
Concen: 0.301 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

Tgt Ion:	43	Resp:	816
Ion	Ratio	Lower	Upper
43	100		
72	44.2	20.6	30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-B4-(4)

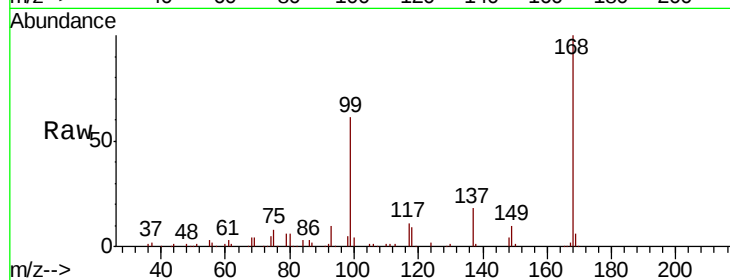
Tgt Ion: 56 Resp: 6957

Ion Ratio Lower Upper

56 100

69 160.3 25.9 38.9#

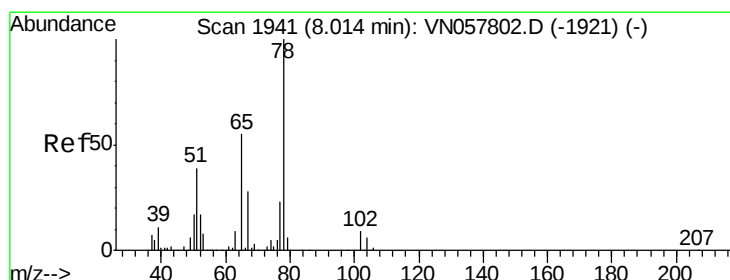
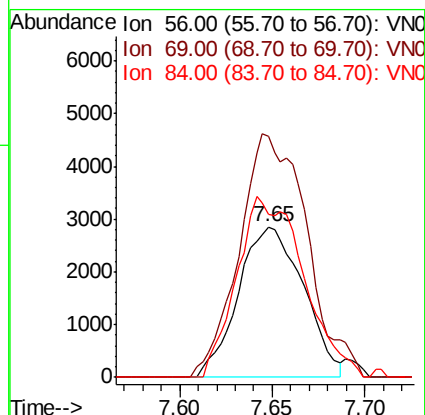
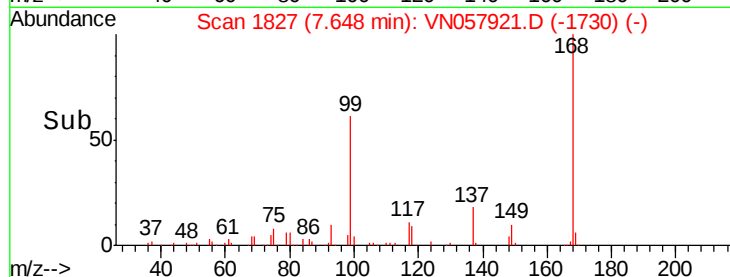
84 108.5 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.619 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057921.D

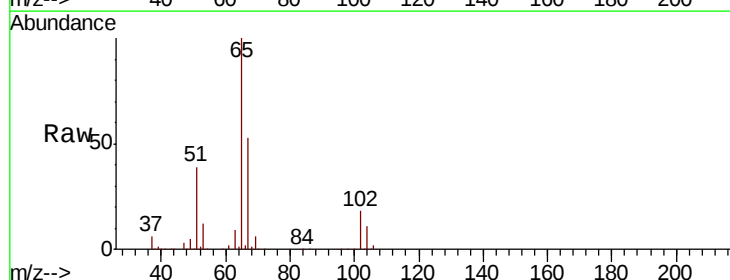
Acq: 11 Sep 2019 13:35

Tgt Ion: 65 Resp: 317420

Ion Ratio Lower Upper

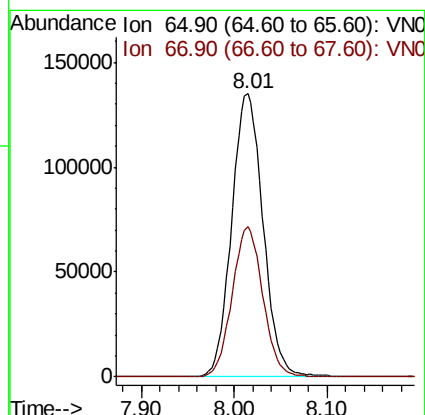
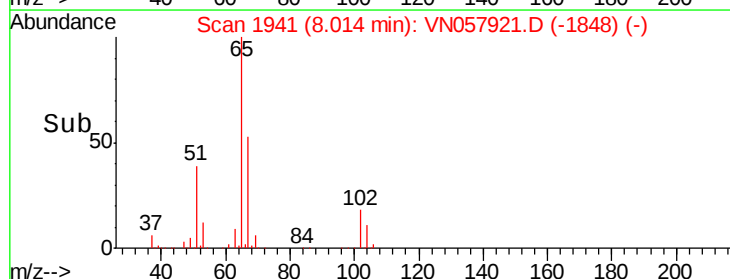
65 100

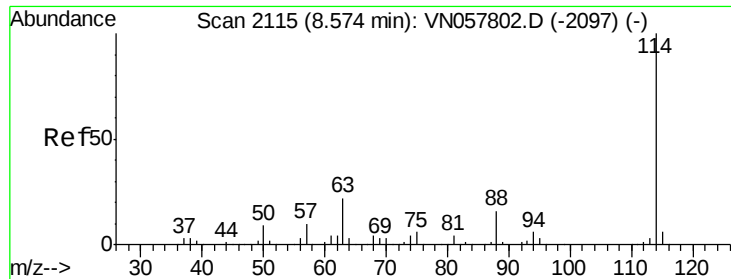
67 51.8 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

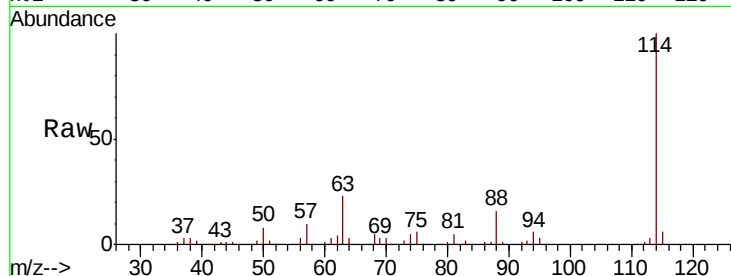




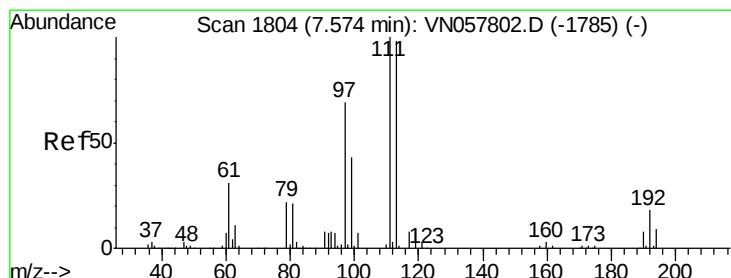
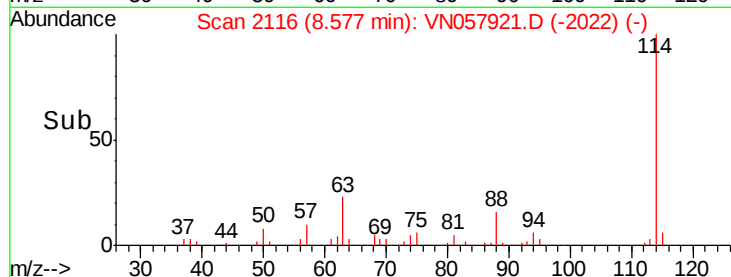
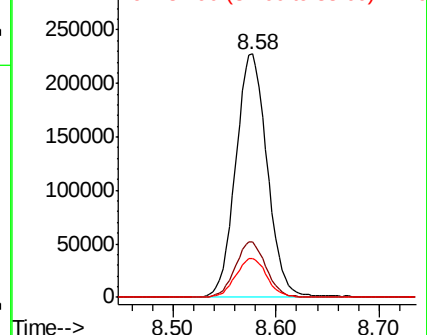
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057921.D
 Acq: 11 Sep 2019 13:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-B4-(4)

Tgt Ion:114 Resp: 485360
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.0
 88 15.8 0.0 31.4

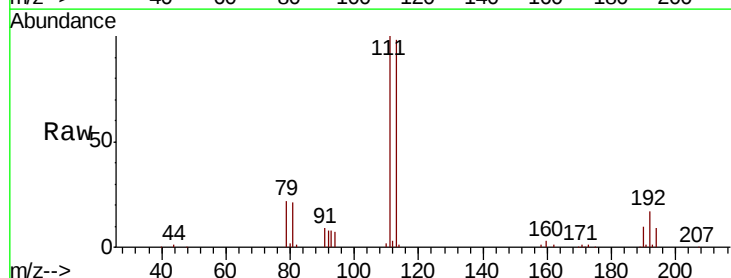


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

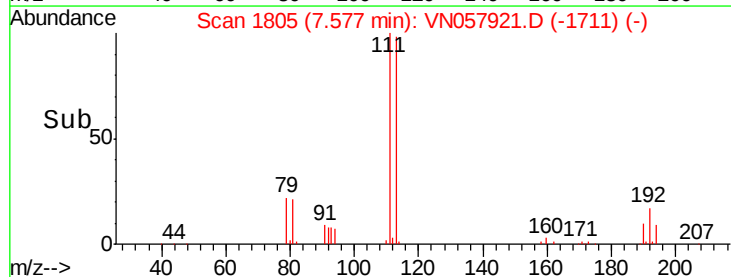
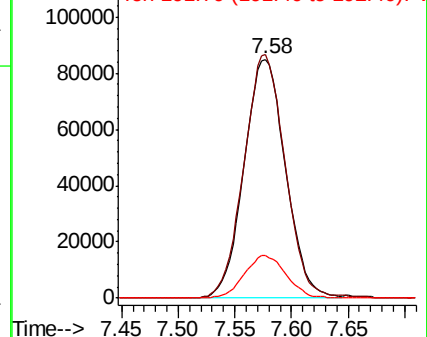


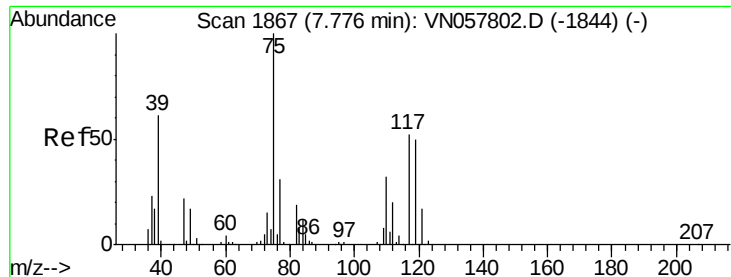
#35
 Dibromofluoromethane
 Concen: 48.441 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057921.D
 Acq: 11 Sep 2019 13:35

Tgt Ion:113 Resp: 217000
 Ion Ratio Lower Upper
 113 100
 111 101.7 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

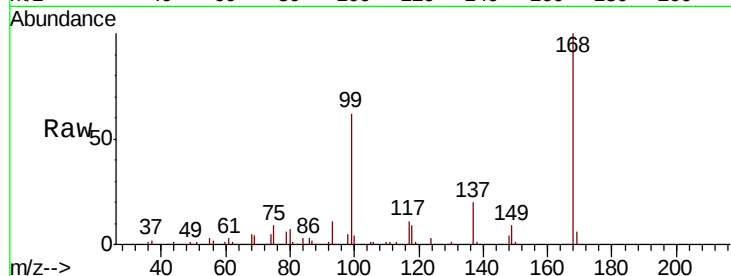




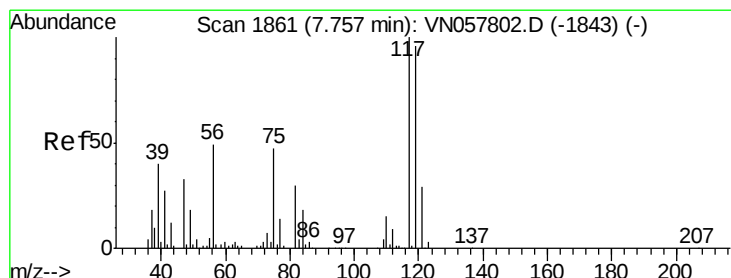
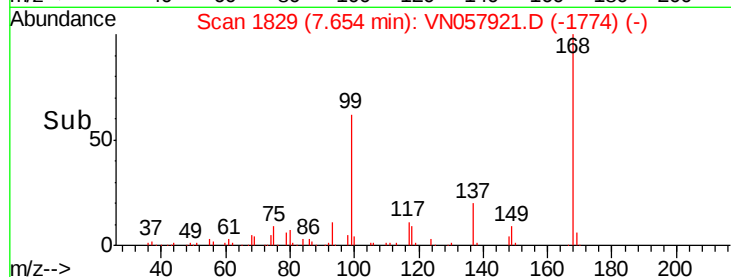
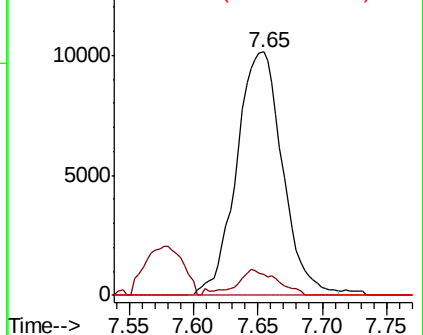
#36
 1,1-Dichloropropene
 Concen: 4.464 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057921.D
 Acq: 11 Sep 2019 13:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-B4-(4)

Tgt Ion: 75 Resp: 25127
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.3 48.9#
 77 0.0 25.0 37.4#

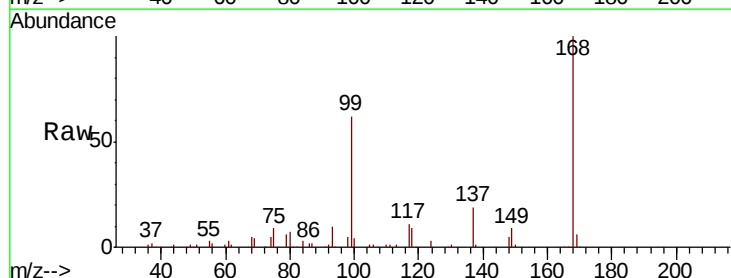


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

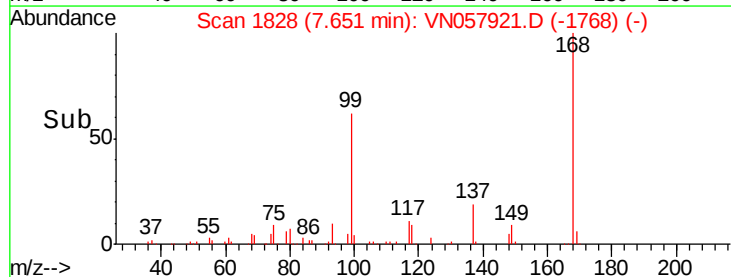
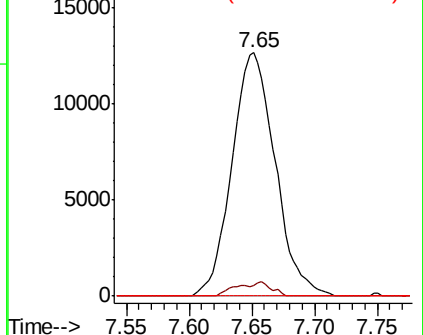


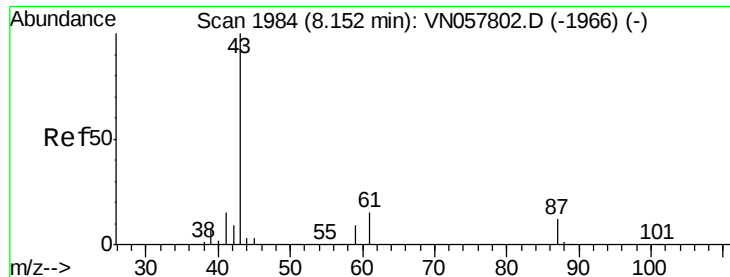
#38
 Carbon Tetrachloride
 Concen: 5.901 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057921.D
 Acq: 11 Sep 2019 13:35

Tgt Ion: 117 Resp: 30327
 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: 8.621 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-B4-(4)

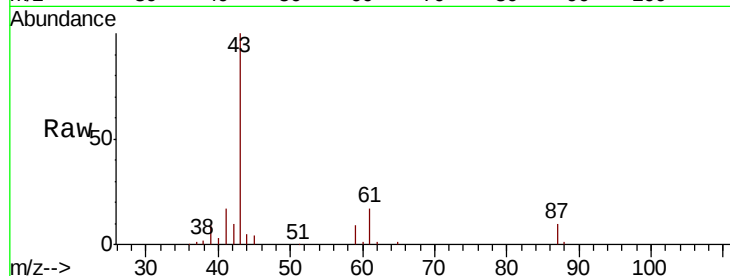
Tgt Ion: 43 Resp: 84319

Ion Ratio Lower Upper

43 100

61 19.3 20.1 30.1#

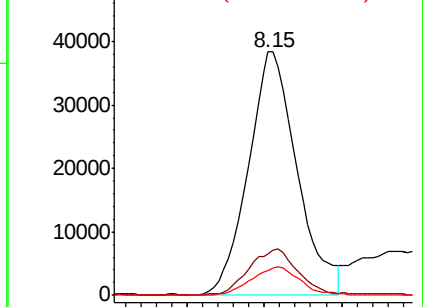
87 11.4 9.5 14.3



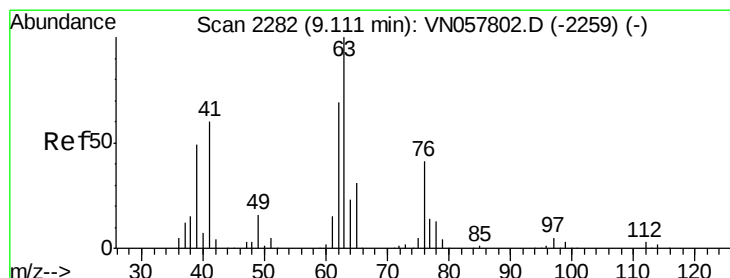
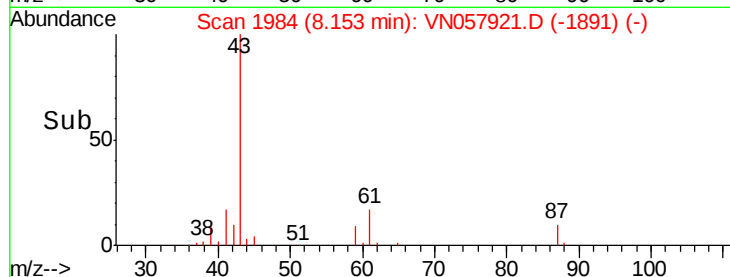
Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.396 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057921.D

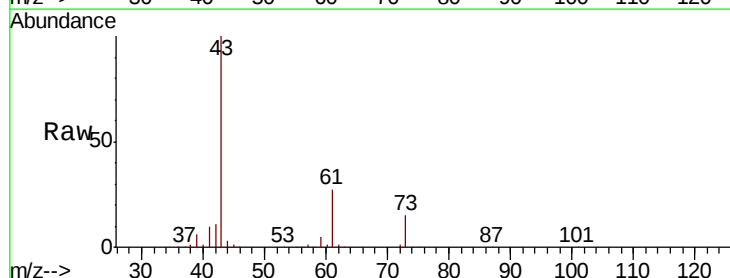
Acq: 11 Sep 2019 13:35

Tgt Ion: 63 Resp: 1952

Ion Ratio Lower Upper

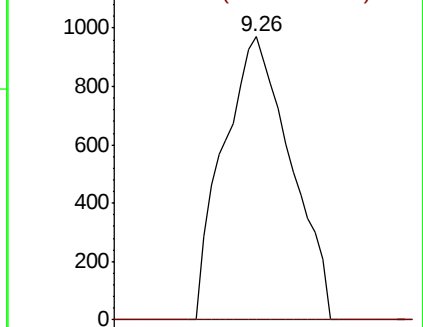
63 100

65 0.0 24.8 37.2#

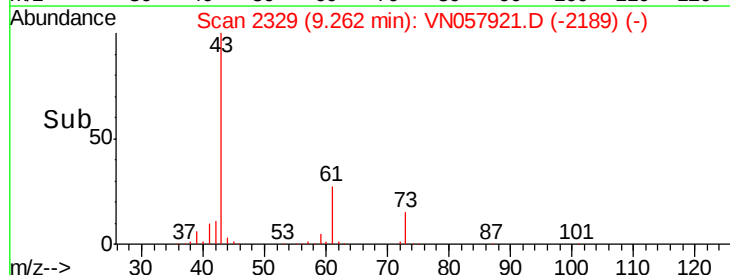


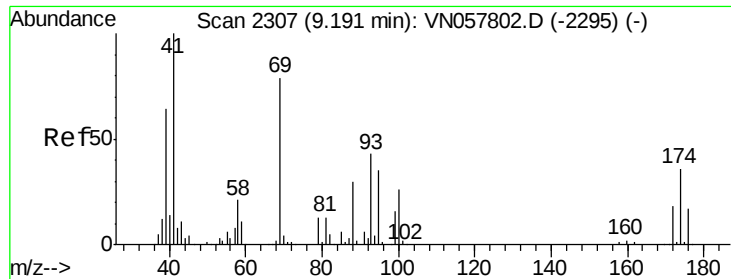
Abundance Ion 62.90 (62.60 to 63.60): VN057802.D (-2259) (-)

Ion 64.90 (64.60 to 65.60): VN057802.D (-2259) (-)



Time-->

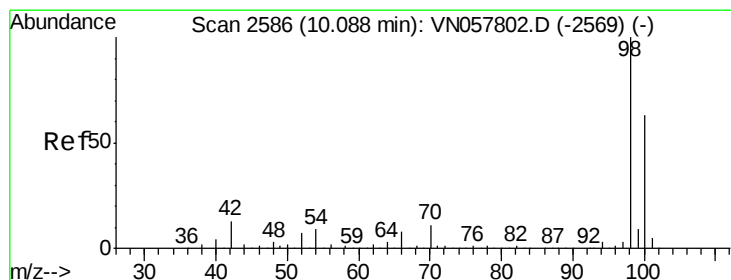
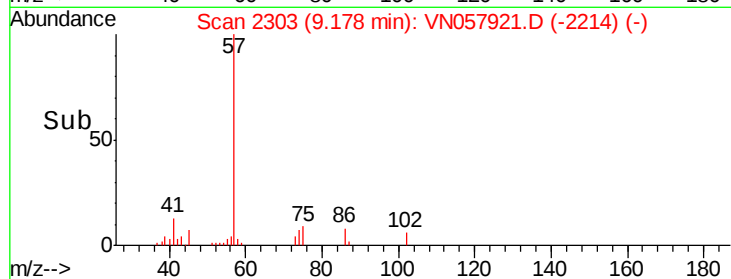
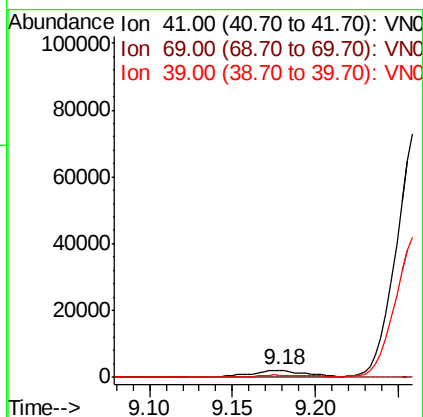
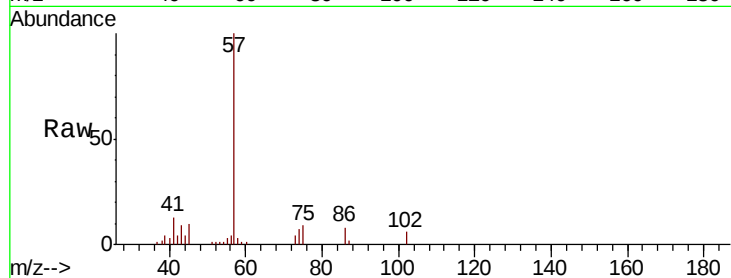




#48
Methyl methacrylate
Concen: 1.024 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

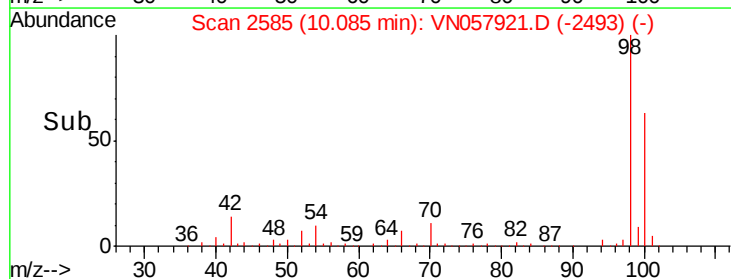
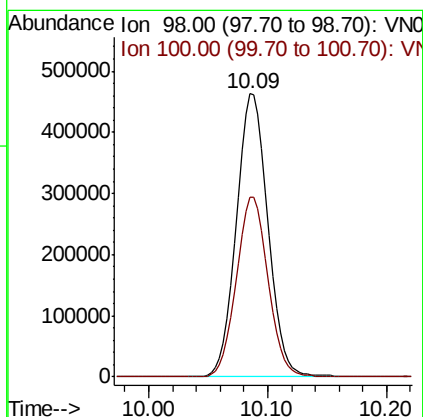
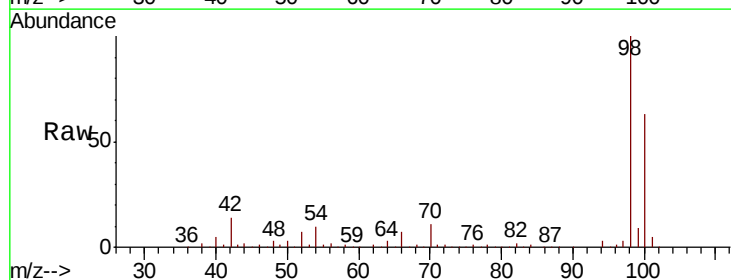
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-B4-(4)

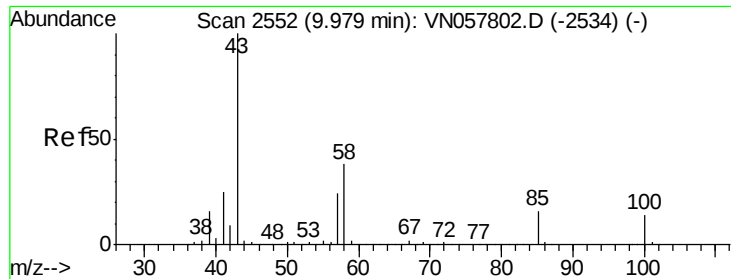
Tgt Ion: 41 Resp: 5082
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 48.955 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

Tgt Ion: 98 Resp: 851458
Ion Ratio Lower Upper
98 100
100 63.9 50.3 75.5

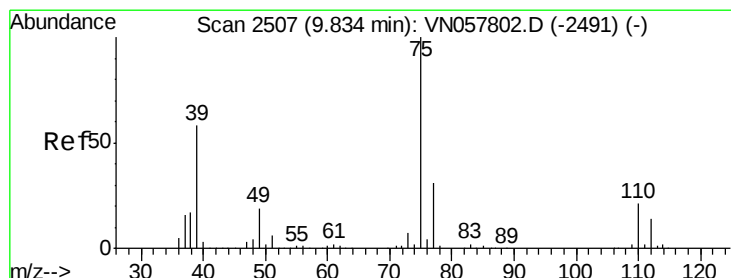
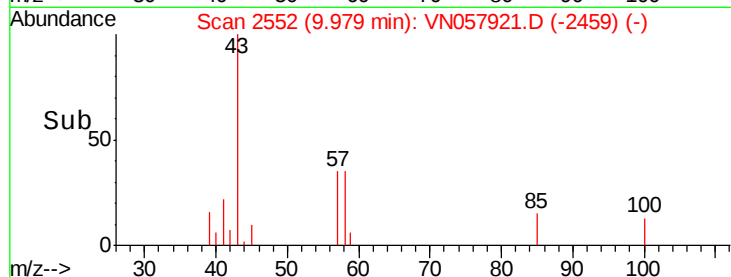
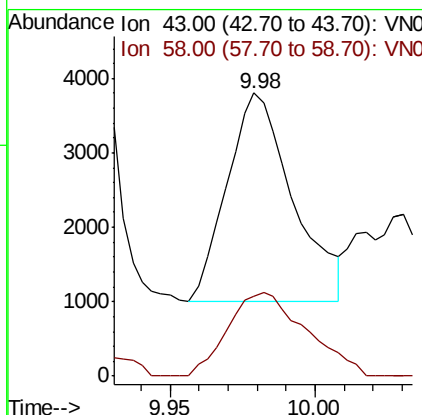
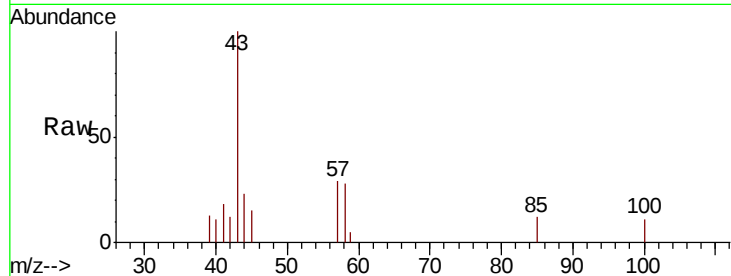




#51
 4-Methyl-2-Pentanone
 Concen: 0.760 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN057921.D
 Acq: 11 Sep 2019 13:35

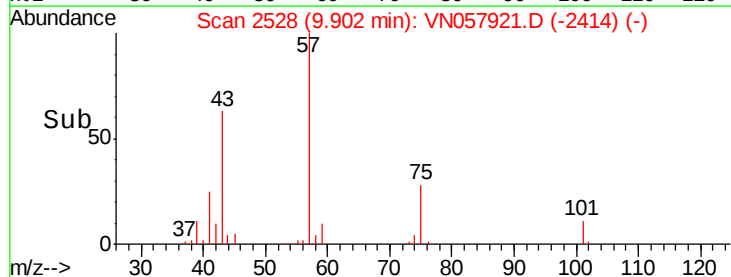
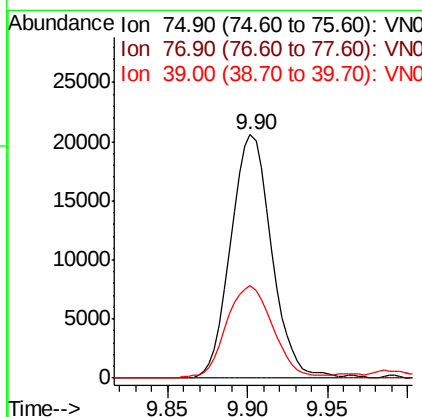
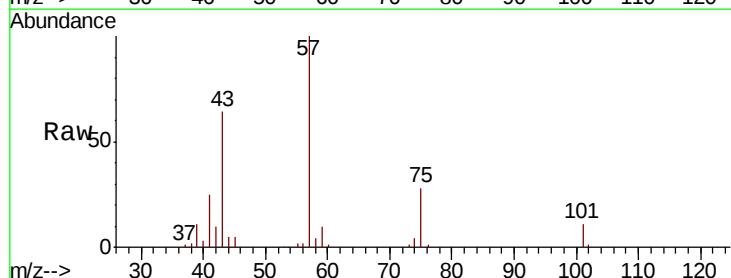
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-B4-(4)

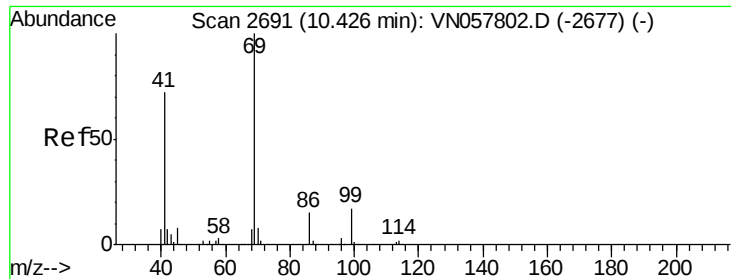
Tgt Ion: 43 Resp: 4396
 Ion Ratio Lower Upper
 43 100
 58 48.3 29.8 44.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.175 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057921.D
 Acq: 11 Sep 2019 13:35

Tgt Ion: 75 Resp: 35803
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 36.9 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.219 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-B4-(4)

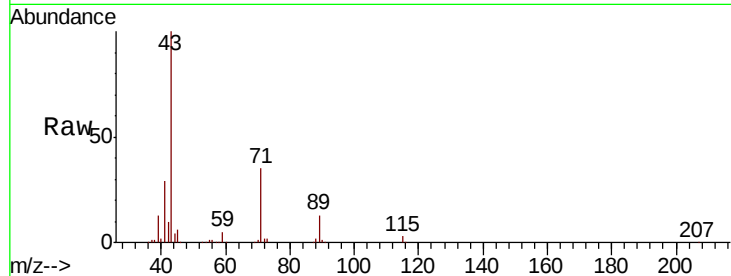
Tgt Ion: 69 Resp: 1492

Ion Ratio Lower Upper

69 100

41 6334.0 56.7 85.1#

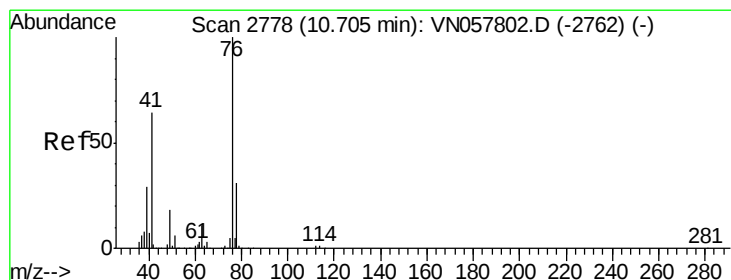
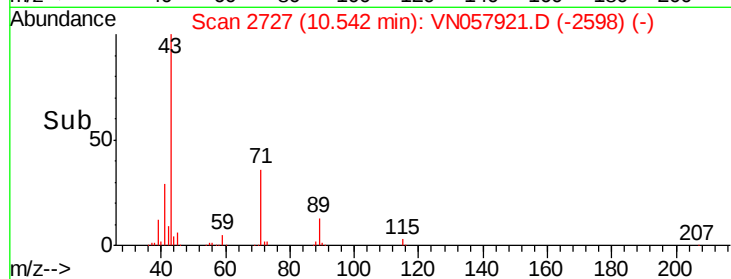
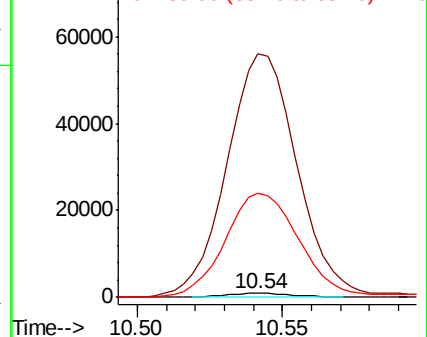
39 2870.5 36.3 54.5#



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: 0.736 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057921.D

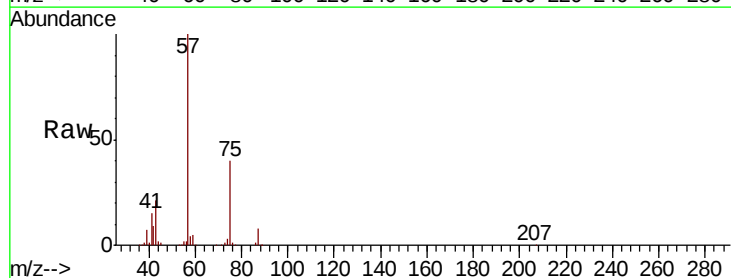
Acq: 11 Sep 2019 13:35

Tgt Ion: 76 Resp: 5732

Ion Ratio Lower Upper

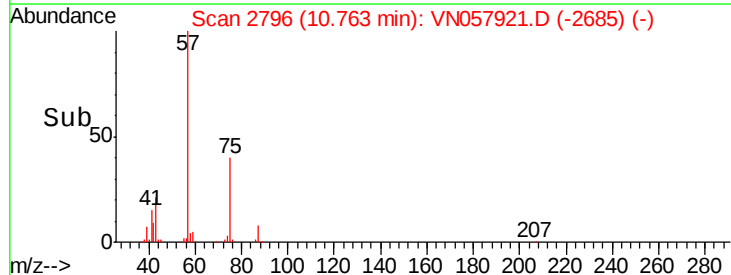
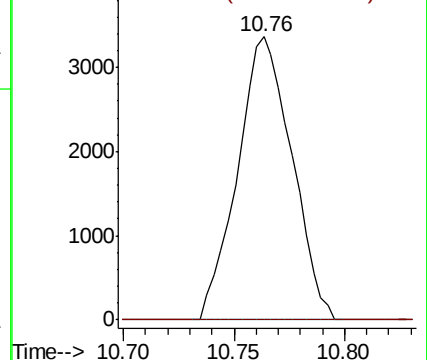
76 100

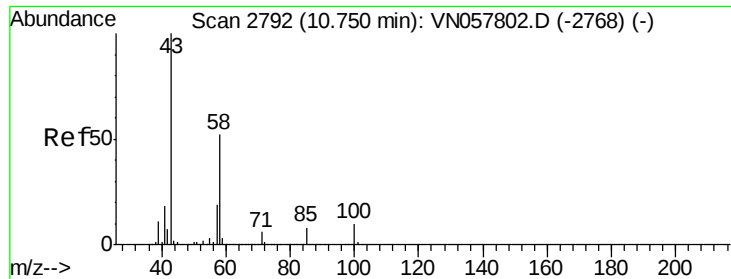
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

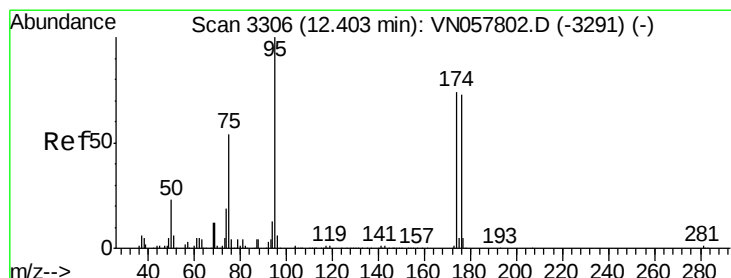
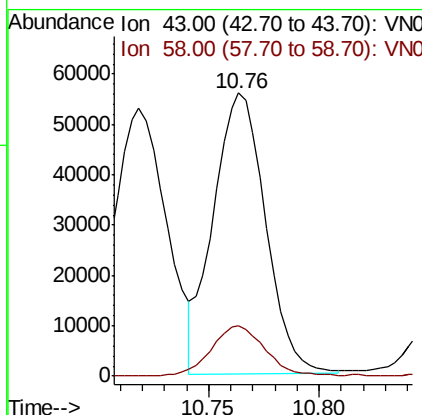
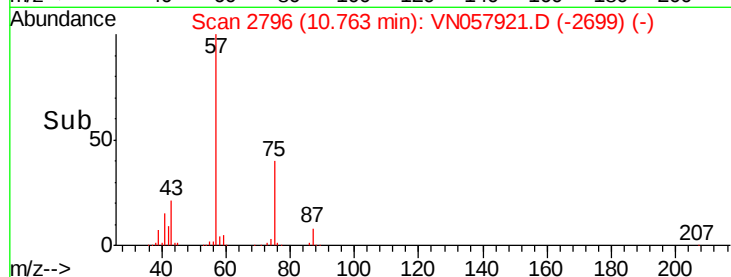
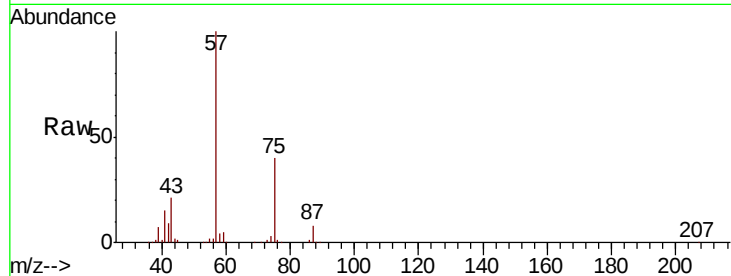




#59
2-Hexanone
Concen: 21.085 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

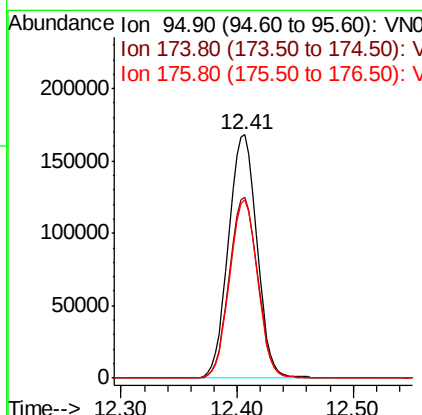
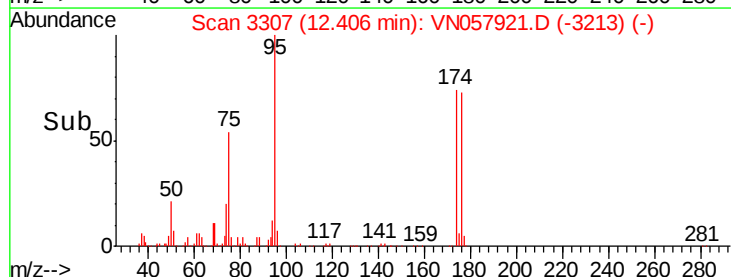
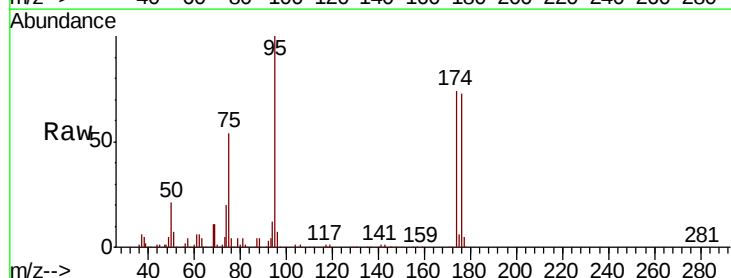
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-B4-(4)

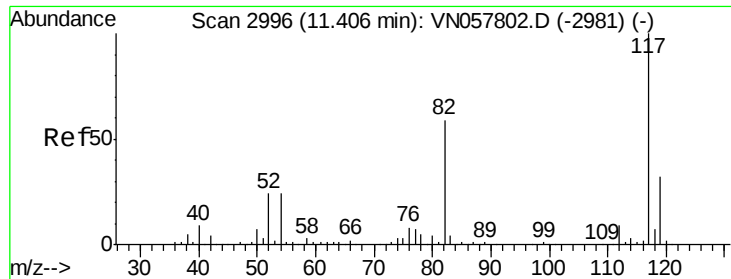
Tgt Ion: 43 Resp: 91466
Ion Ratio Lower Upper
43 100
58 18.6 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.981 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

Tgt Ion: 95 Resp: 284879
Ion Ratio Lower Upper
95 100
174 74.1 0.0 150.2
176 72.0 0.0 146.0

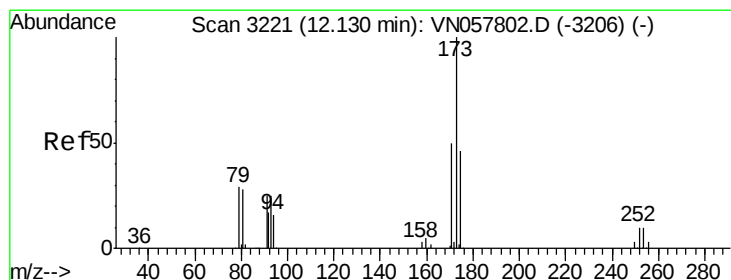
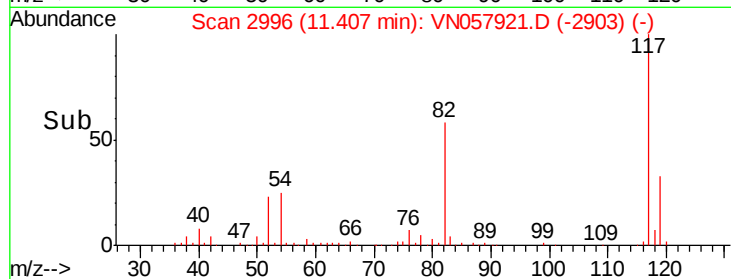
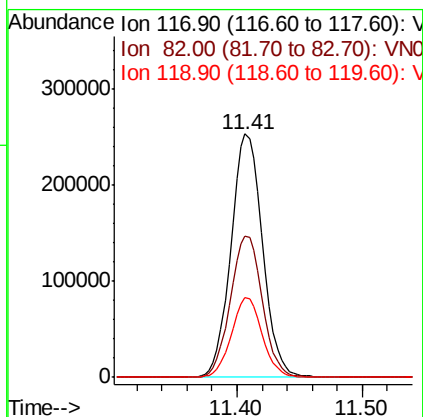
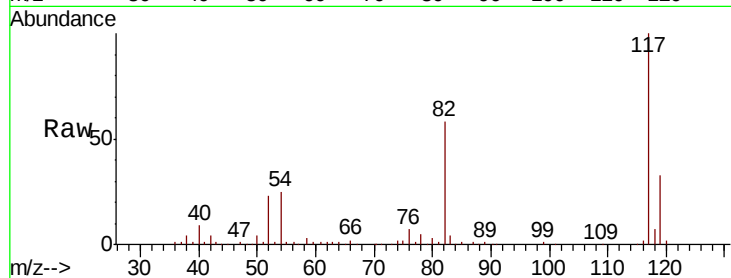




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

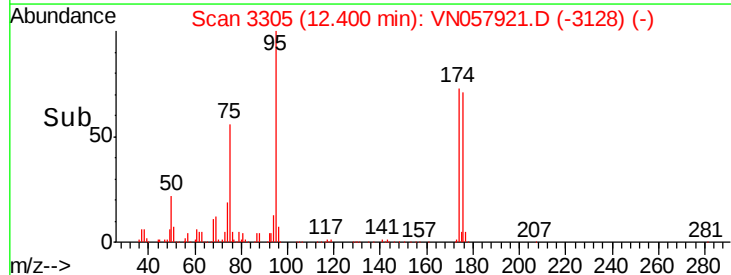
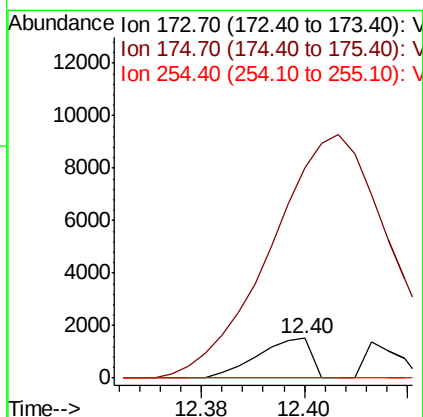
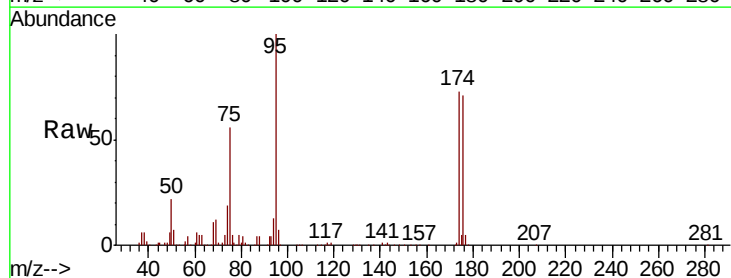
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-B4-(4)

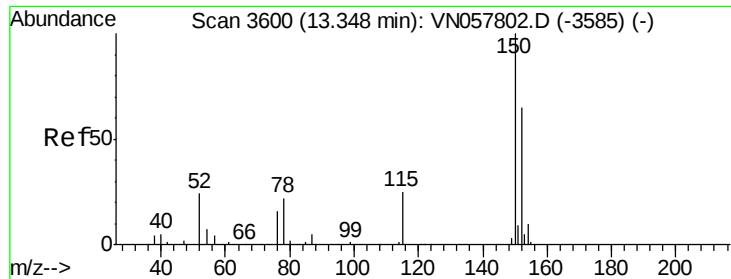
Tgt Ion:117 Resp: 442914
Ion Ratio Lower Upper
117 100
82 58.1 47.2 70.8
119 32.6 25.3 37.9



#71
Bromoform
Concen: 0.429 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057921.D
Acq: 11 Sep 2019 13:35

Tgt Ion:173 Resp: 1076
Ion Ratio Lower Upper
173 100
175 1219.8 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-B4-(4)

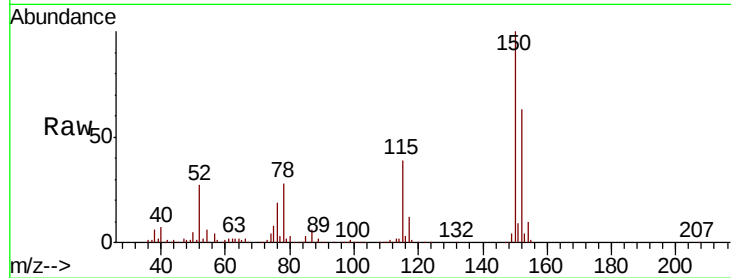
Tgt Ion:152 Resp: 224787

Ion Ratio Lower Upper

152 100

115 60.3 30.3 91.0

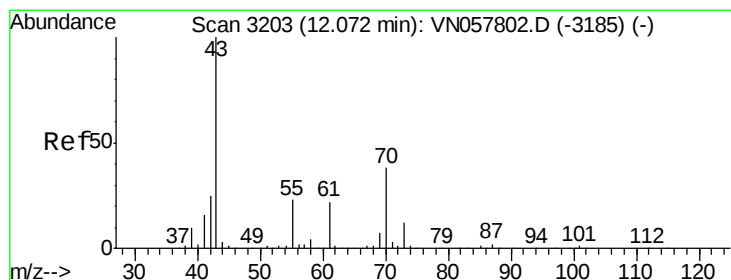
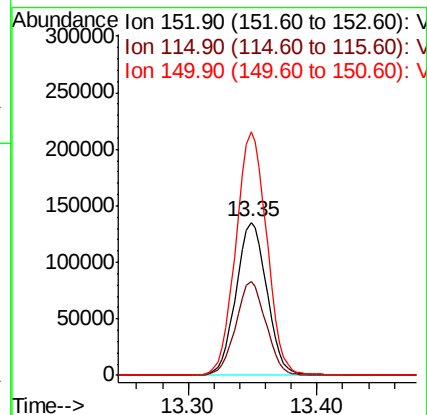
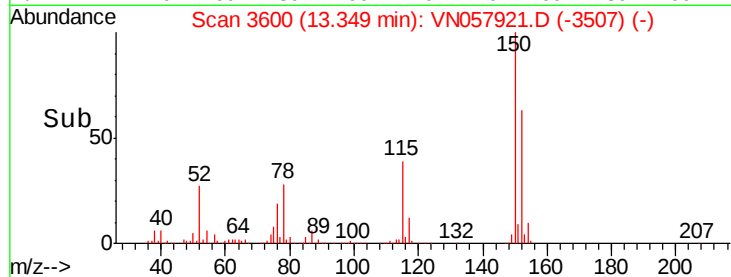
150 160.0 0.0 352.4



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: 0.306 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Tgt Ion: 43 Resp: 2326

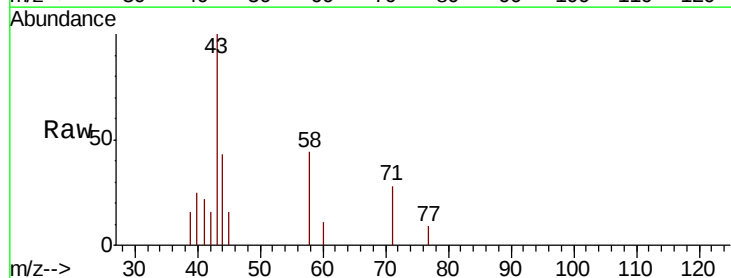
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.6 18.6 27.8#

61 0.0 17.4 26.2#

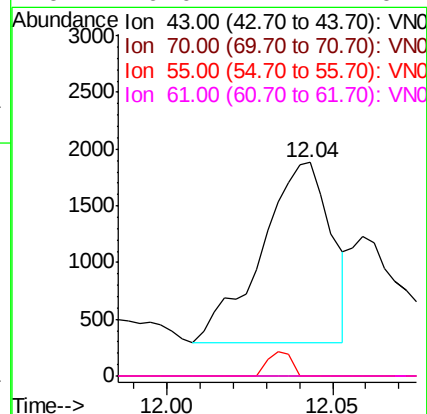
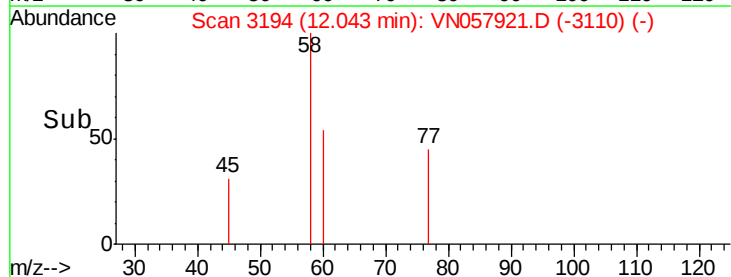


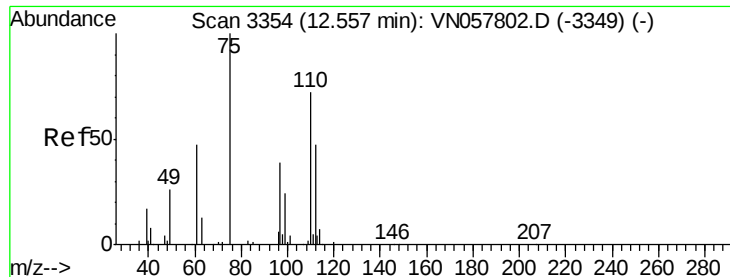
Abundance Ion 43.00 (42.70 to 43.70): V

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: 30.188 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

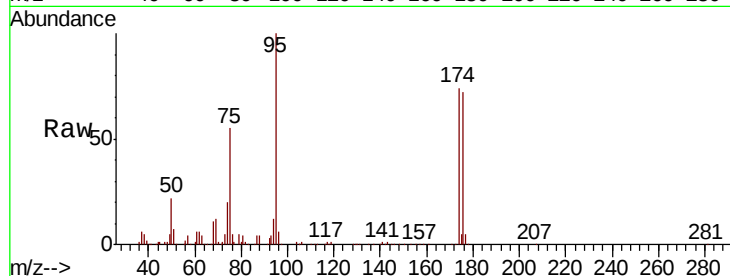
PAR-11-B4-(4)

Tgt Ion: 75 Resp: 153510

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

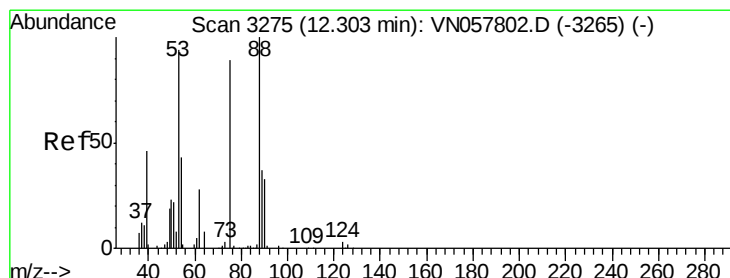
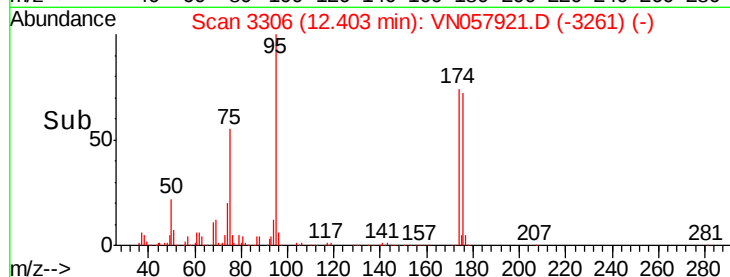
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 106.233 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

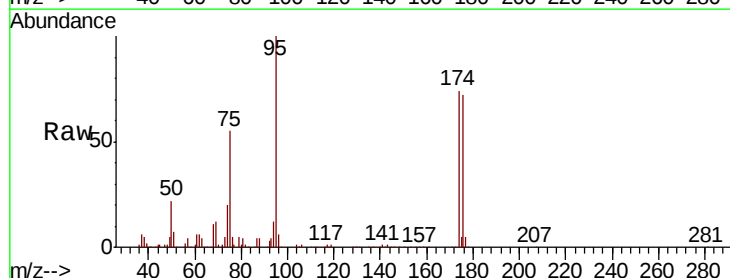
Tgt Ion: 75 Resp: 153510

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

120000

100000

80000

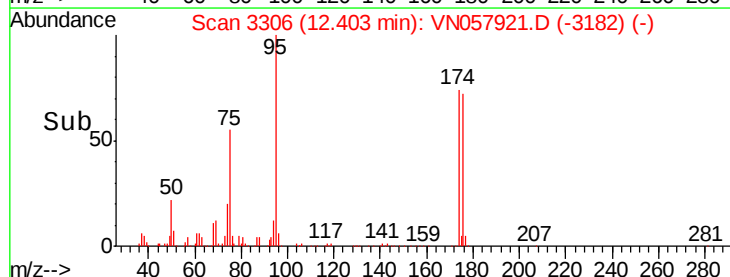
60000

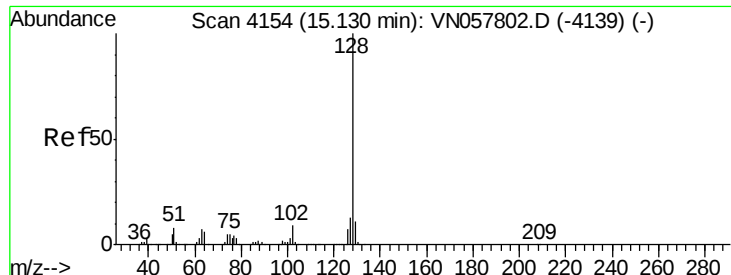
40000

20000

0

Time-->





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN057921.D

Acq: 11 Sep 2019 13:35

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-B4-(4)

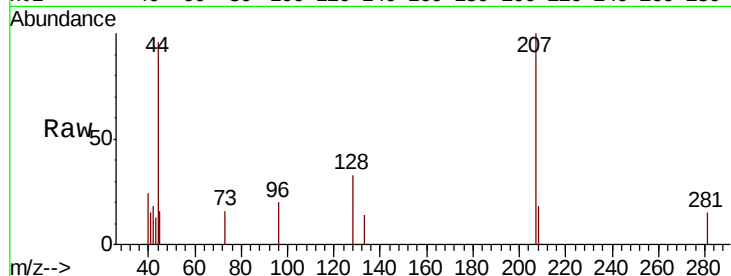
Tgt Ion:128 Resp: 538

Ion Ratio Lower Upper

128 100

127 11.2 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

