

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057882.D
 Acq On : 10 Sep 2019 22:33
 Operator : JC/SP
 Sample : K4623-39
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E2-(0)

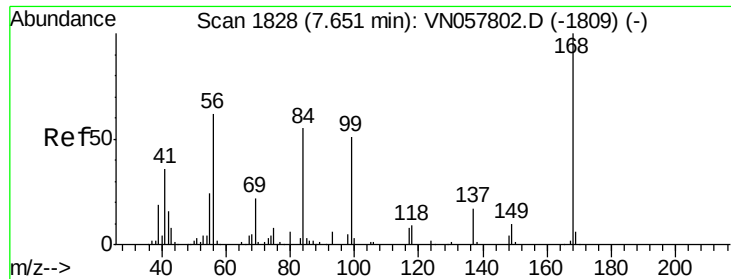
Quant Time: Sep 11 03:58:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	297988	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	501493	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	463575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	237622	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	327517	54.27	ug/l	0.00
Spiked Amount			Recovery	=	108.54%	
35) Dibromofluoromethane	7.58	113	221091	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
50) Toluene-d8	10.09	98	914395	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	12.40	95	293388	42.84	ug/l	0.00
Spiked Amount			Recovery	=	85.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.52	94	104	Below Cal	#	2
16) Acetone	3.80	43	11943	6.036	ug/l	99
18) Methyl Acetate	4.31	43	5292	1.003	ug/l #	76
20) Methylene Chloride	4.53	84	6046	0.384	ug/l	96
25) 2-Butanone	6.82	43	682	0.238	ug/l #	49
29) Tetrahydrofuran	7.20	42	362	0.205	ug/l #	34
31) Cyclohexane	7.65	56	8163	Below Cal	#	23
36) 1,1-Dichloropropene	7.65	75	26759	4.601	ug/l #	45
38) Carbon Tetrachloride	7.65	117	31887	6.005	ug/l #	16
43) Isopropyl Acetate	8.15	43	70557	6.982	ug/l #	89
48) Methyl methacrylate	9.18	41	3898	0.760	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	4072	0.681	ug/l #	77
54) cis-1,3-Dichloropropene	9.90	75	32407	4.534	ug/l #	69
56) Ethyl methacrylate	10.54	69	1849	0.263	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4689	0.582	ug/l #	43
59) 2-Hexanone	10.76	43	75425	16.828	ug/l #	53
74) N-amyl acetate	12.04	43	3102	0.387	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	161560	30.055	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	161560	105.765	ug/l #	6
95) Naphthalene	15.13	128	485	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057882.D

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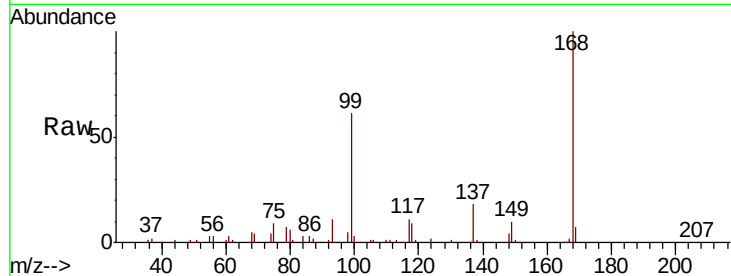
PAR-11-E2-(0)

Tgt Ion:168 Resp: 297988

Ion Ratio Lower Upper

168 100

99 60.7 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

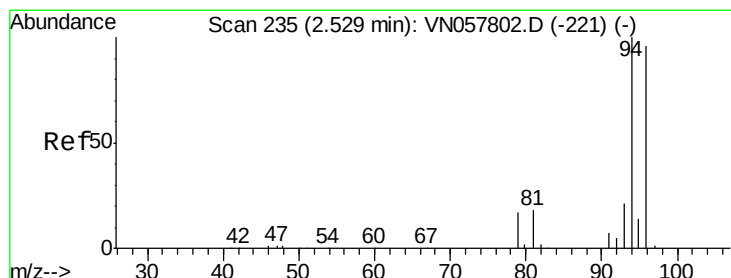
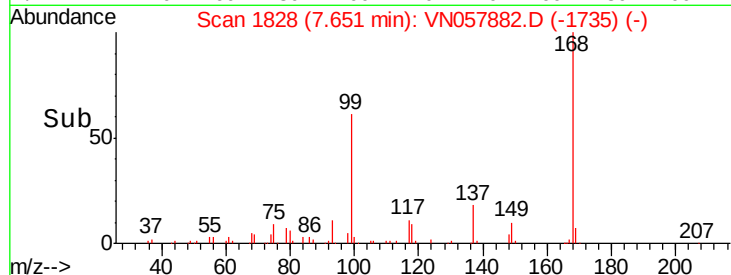
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN057882.D

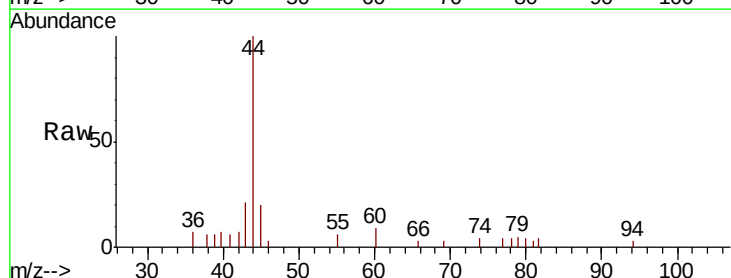
Acq: 10 Sep 2019 22:33

Tgt Ion: 94 Resp: 104

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

250

200

150

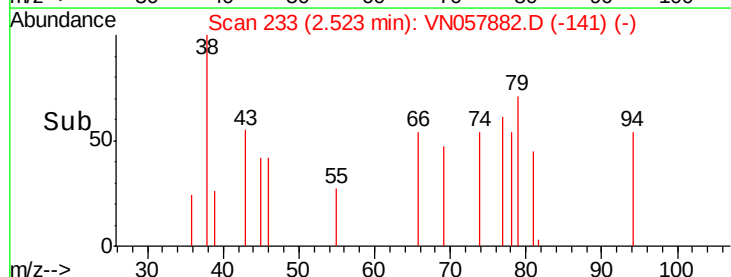
100

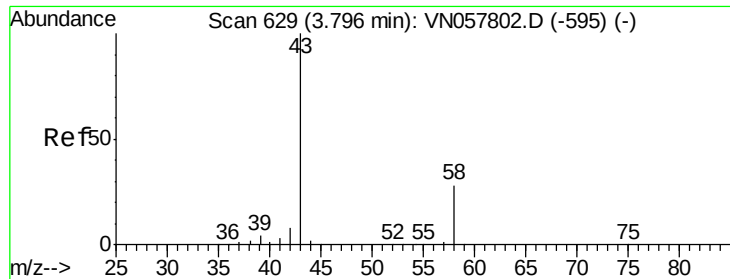
50

0

2.51 2.52 2.53

Time-->

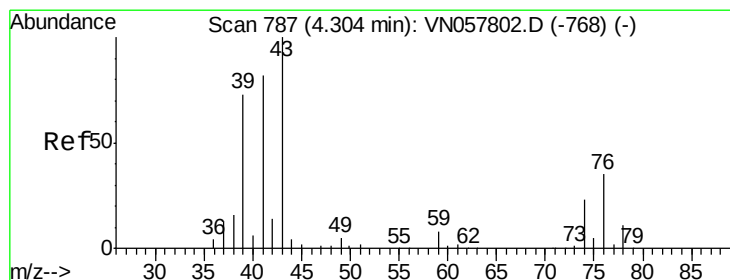
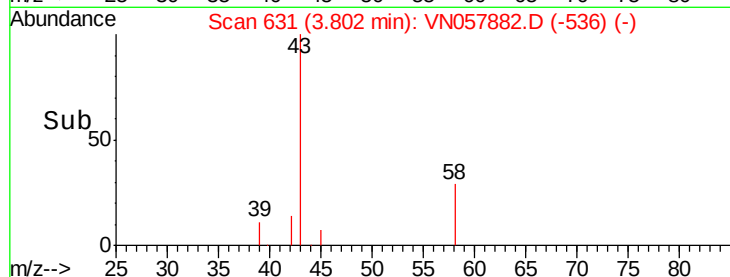
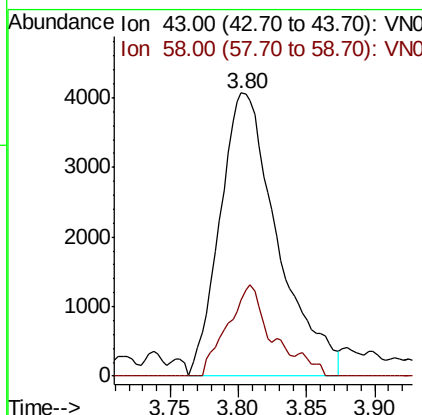
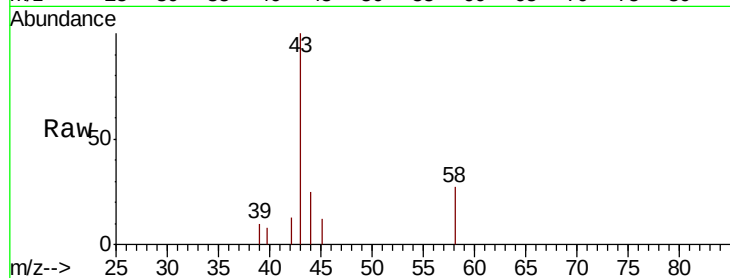




#16
 Acetone
 Concen: 6.036 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057882.D
 Acq: 10 Sep 2019 22:33

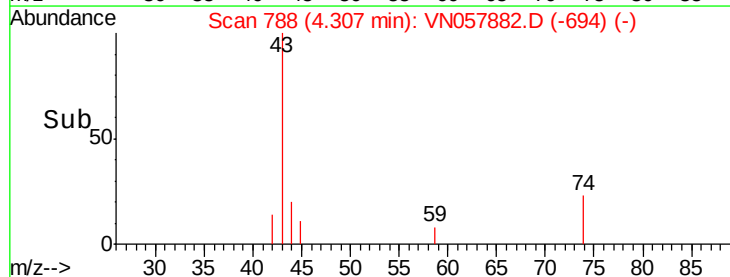
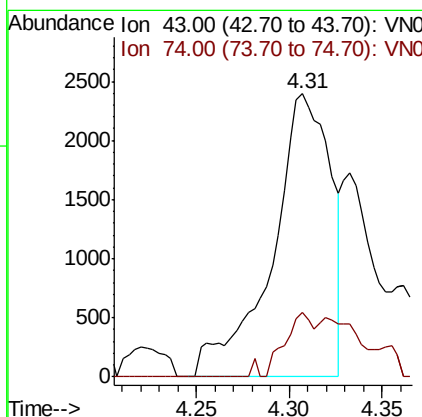
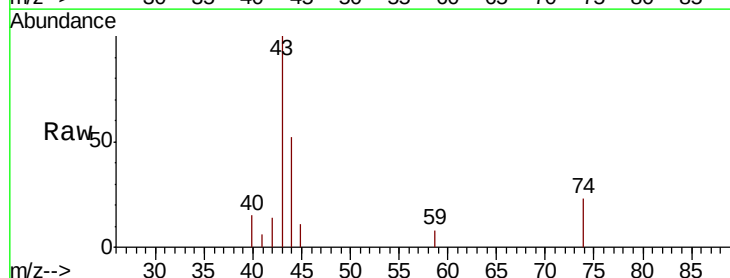
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E2-(0)

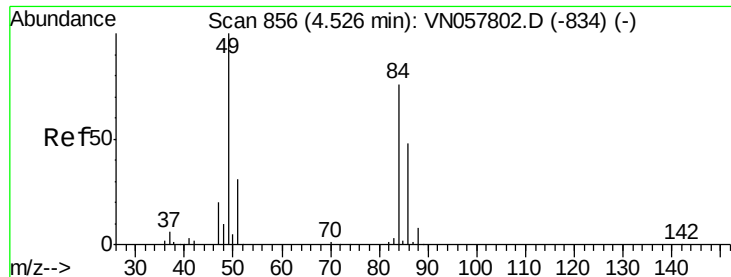
Tgt Ion: 43 Resp: 11943
 Ion Ratio Lower Upper
 43 100
 58 27.0 22.2 33.2



#18
 Methyl Acetate
 Concen: 1.003 ug/l
 RT: 4.31 min Scan# 788
 Delta R.T. 0.00 min
 Lab File: VN057882.D
 Acq: 10 Sep 2019 22:33

Tgt Ion: 43 Resp: 5292
 Ion Ratio Lower Upper
 43 100
 74 10.9 17.9 26.9#





#20

Methylene Chloride

Concen: 0.384 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(0)

Tgt Ion: 84 Resp: 6046

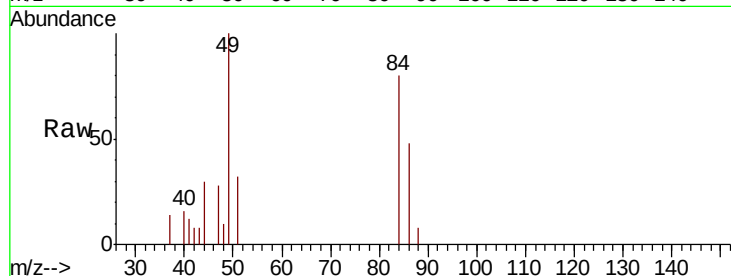
Ion Ratio Lower Upper

84 100

49 124.3 104.8 157.2

51 40.2 33.0 49.4

86 60.3 50.5 75.7

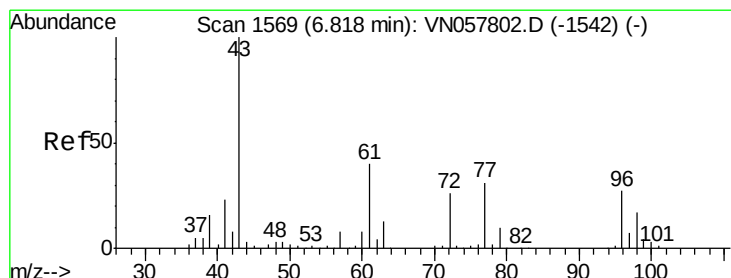
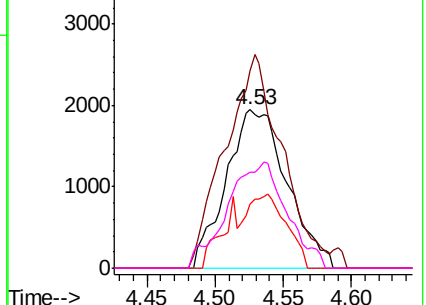
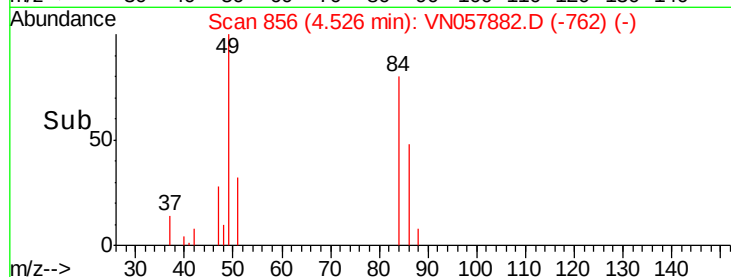


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.238 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN057882.D

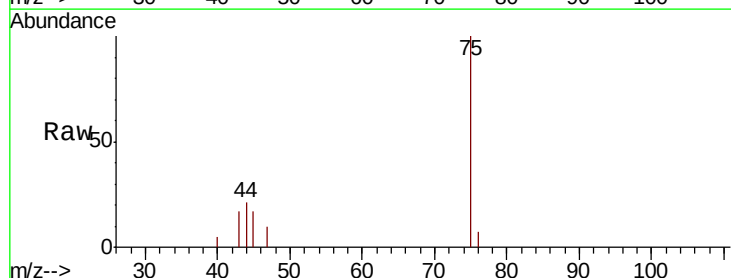
Acq: 10 Sep 2019 22:33

Tgt Ion: 43 Resp: 682

Ion Ratio Lower Upper

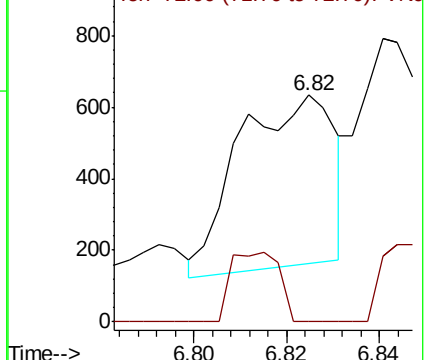
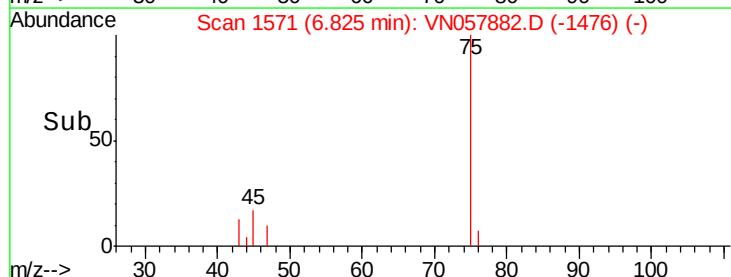
43 100

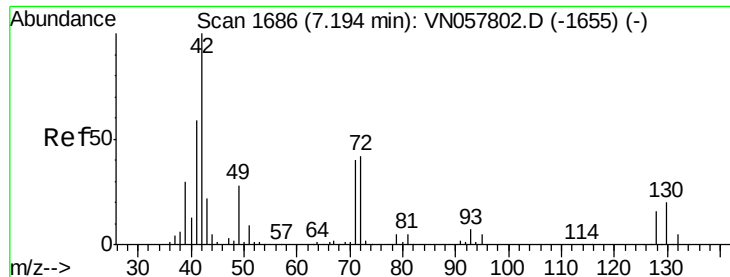
72 0.0 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.205 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(0)

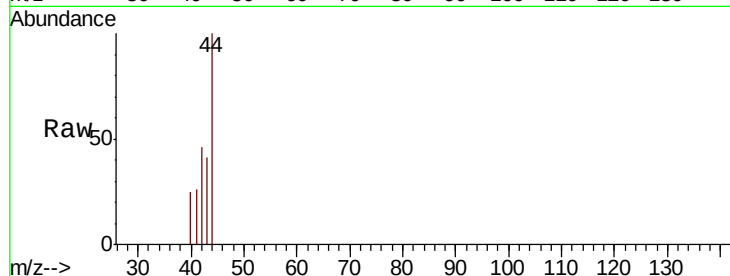
Tgt Ion: 42 Resp: 362

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.20

400

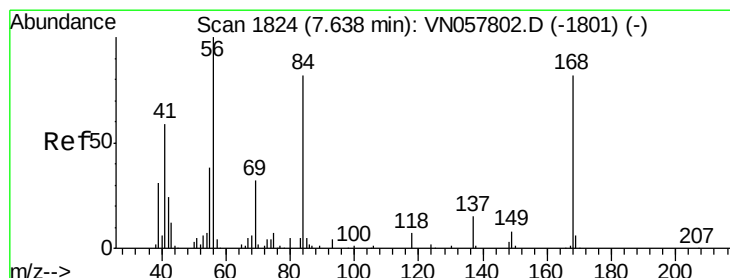
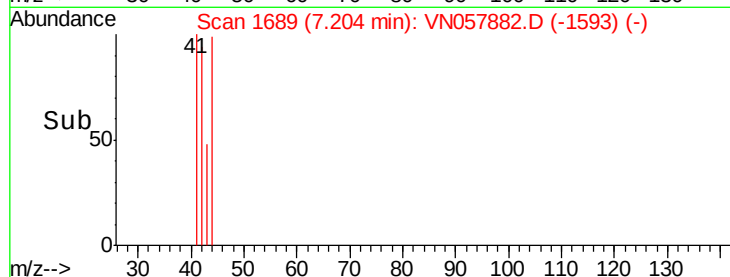
300

200

100

0

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

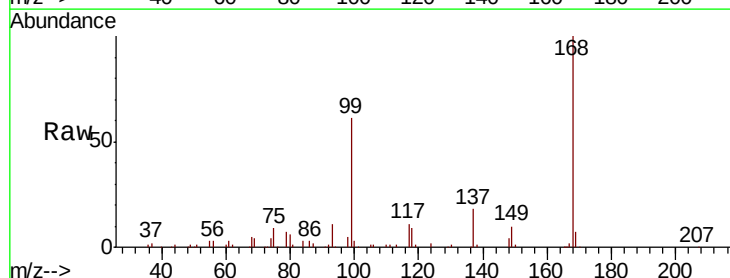
Tgt Ion: 56 Resp: 8163

Ion Ratio Lower Upper

56 100

69 150.7 25.9 38.9#

84 103.7 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

7.65

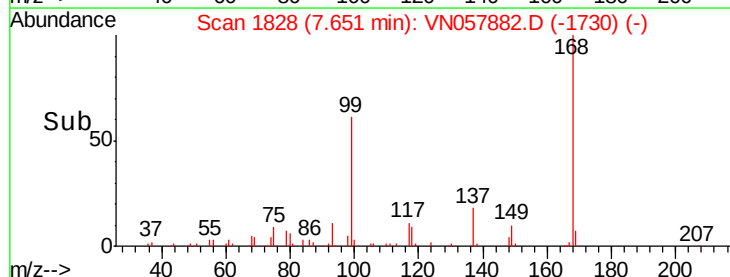
6000

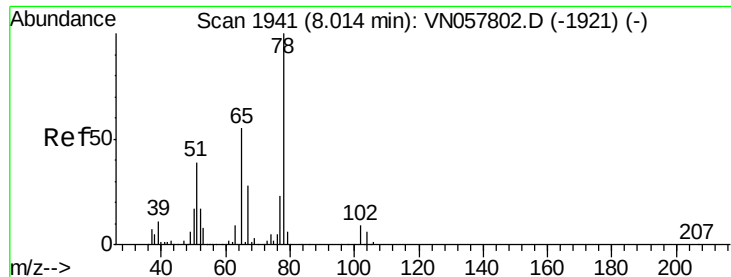
4000

2000

0

Time-->

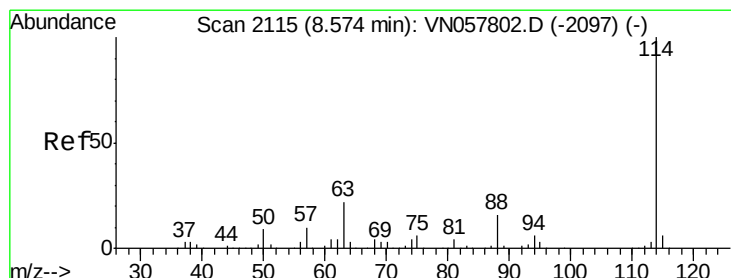
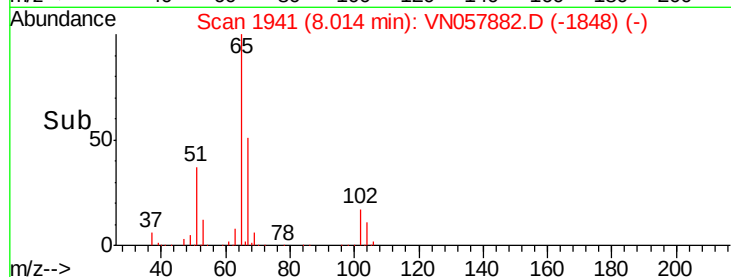
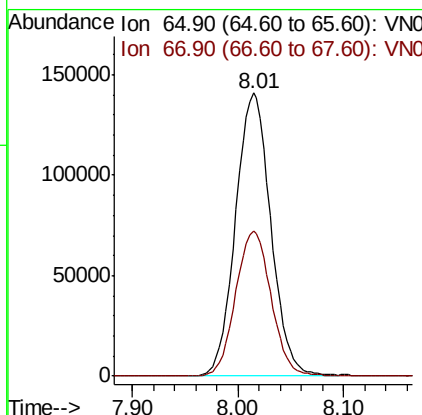
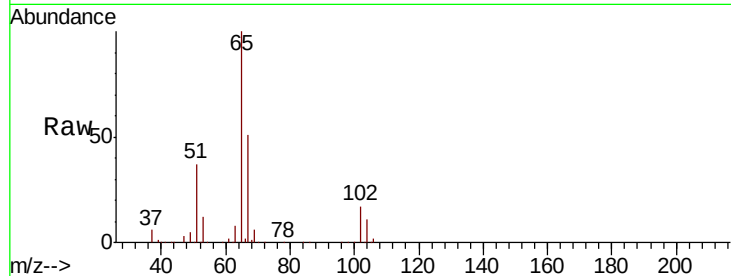




#33
 1,2-Dichloroethane-d4
 Concen: 54.265 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057882.D
 Acq: 10 Sep 2019 22:33

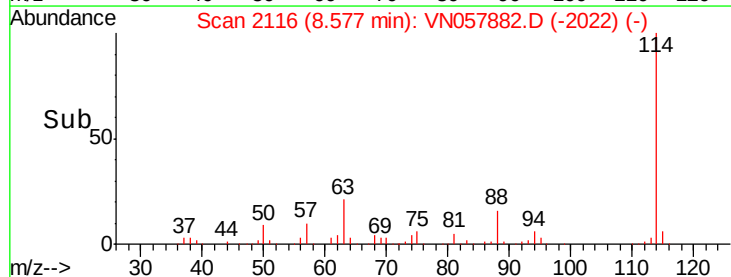
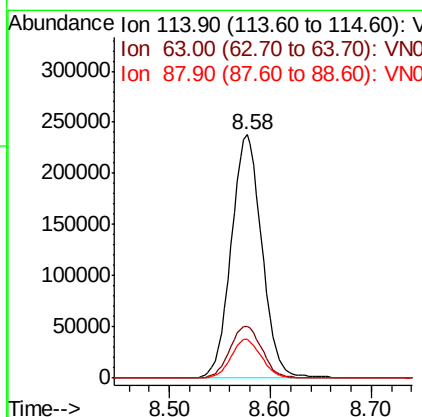
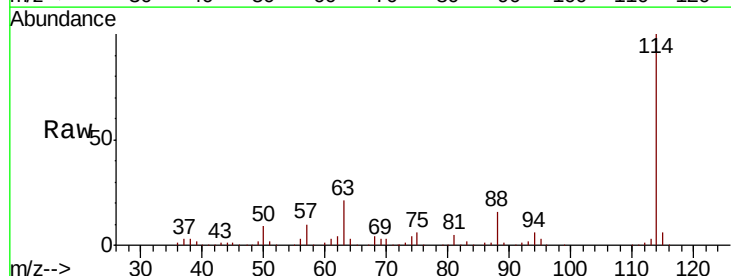
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E2-(0)

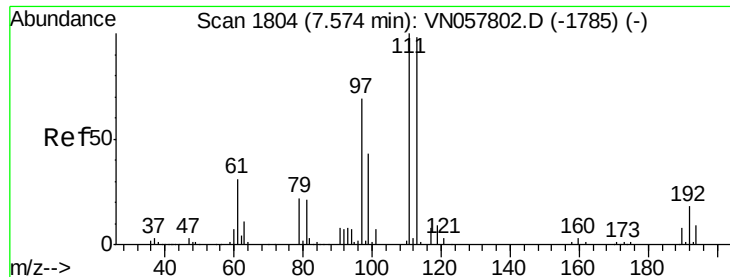
Tgt Ion: 65 Resp: 327517
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057882.D
 Acq: 10 Sep 2019 22:33

Tgt Ion: 114 Resp: 501493
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 44.0
 88 15.9 0.0 31.4

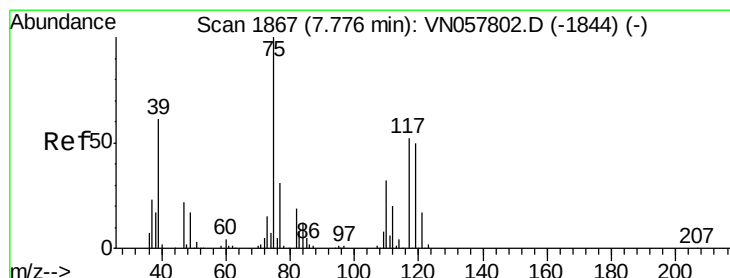
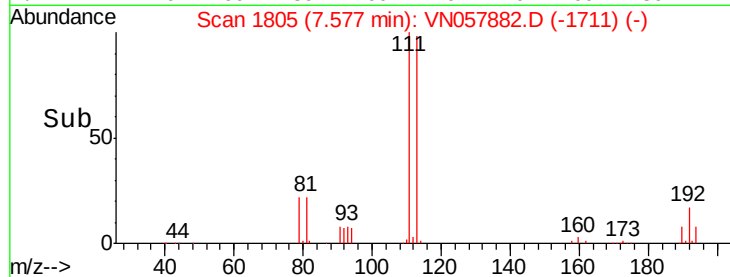
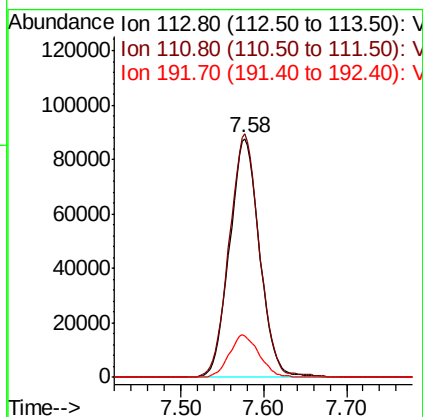
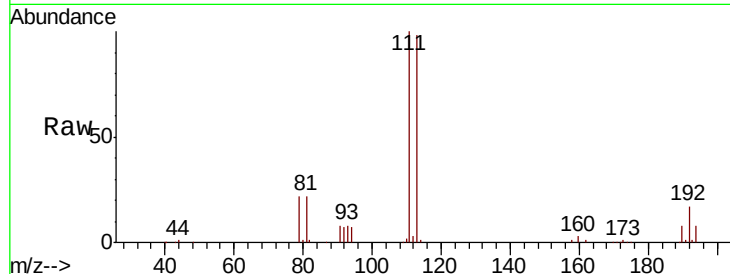




#35
 Dibromofluoromethane
 Concen: 47.766 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057882.D
 Acq: 10 Sep 2019 22:33

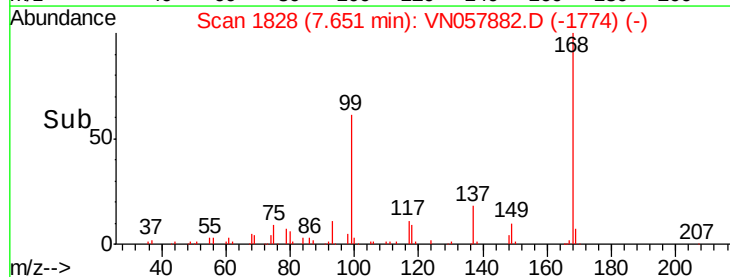
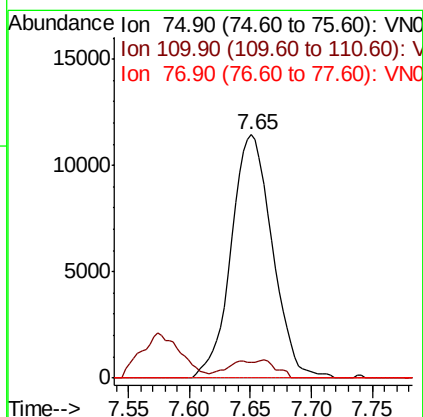
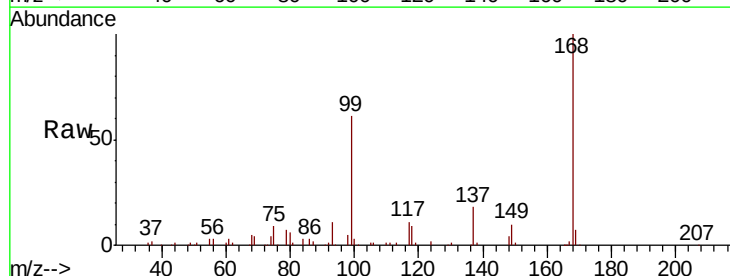
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E2-(0)

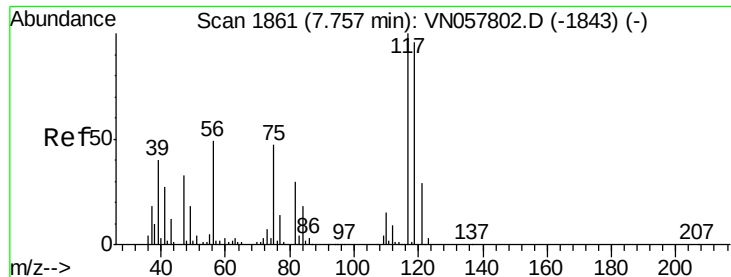
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.3	121.9
192	17.5	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.601 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057882.D
 Acq: 10 Sep 2019 22:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.8	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.005 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(0)

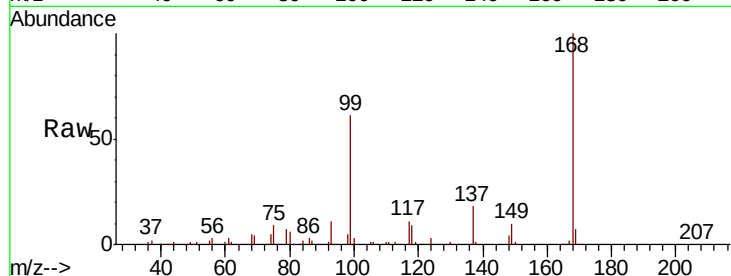
Tgt Ion:117 Resp: 31887

Ion Ratio Lower Upper

117 100

119 4.8 76.9 115.3#

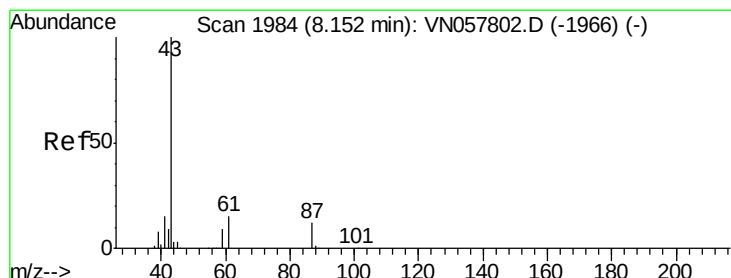
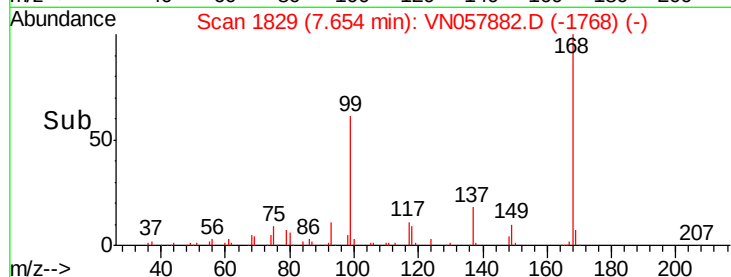
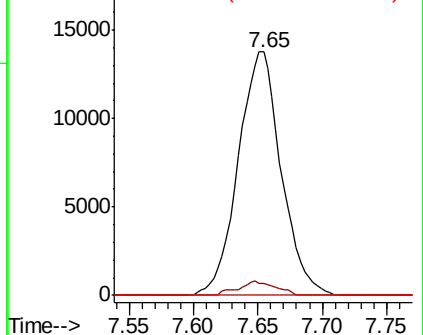
121 0.0 23.4 35.2#



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: 6.982 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

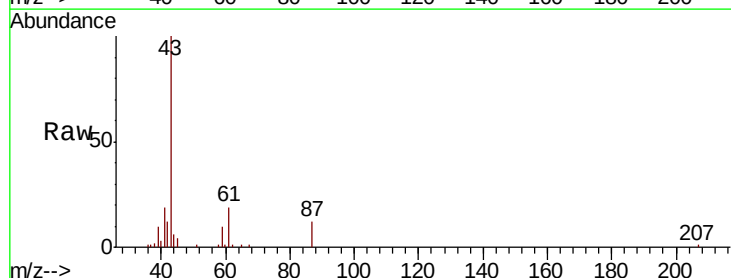
Tgt Ion: 43 Resp: 70557

Ion Ratio Lower Upper

43 100

61 17.0 20.1 30.1#

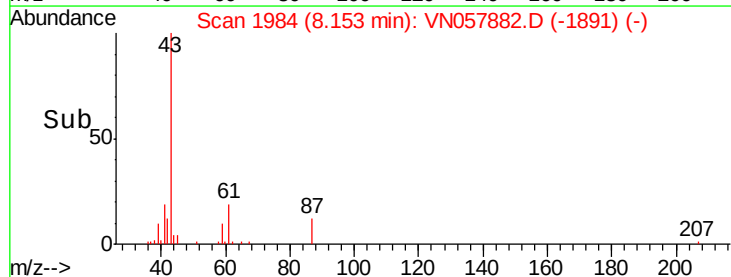
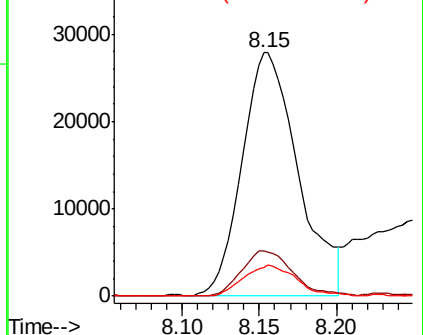
87 11.8 9.5 14.3

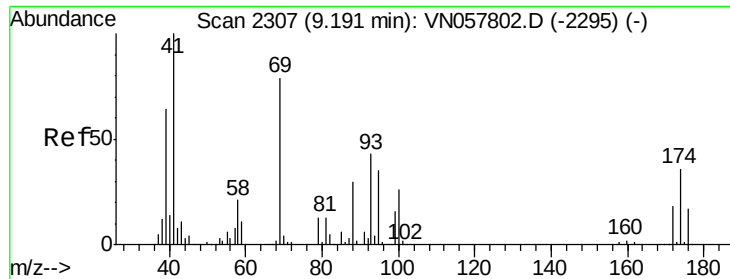


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

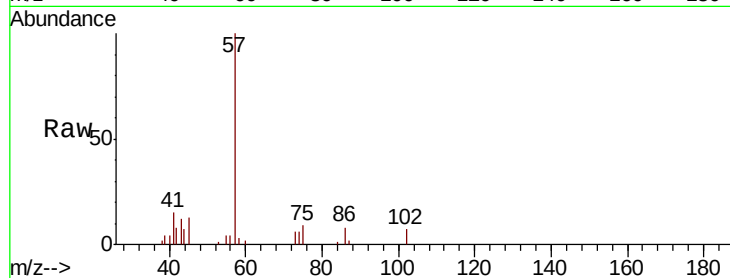




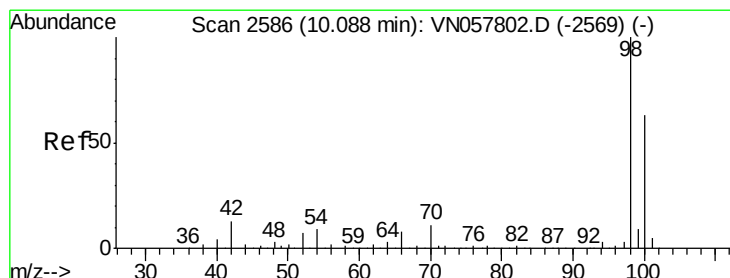
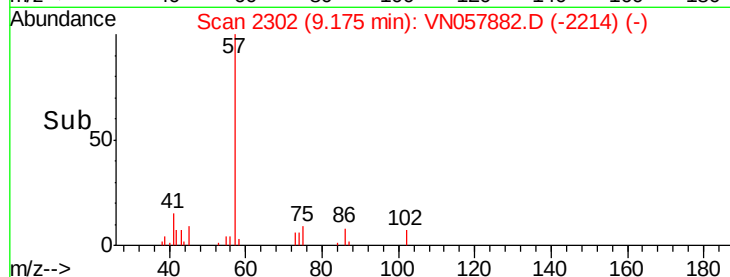
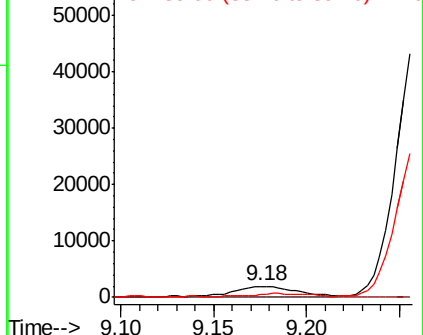
#48
Methyl methacrylate
Concen: 0.760 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E2-(0)

Tgt Ion: 41 Resp: 3898
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

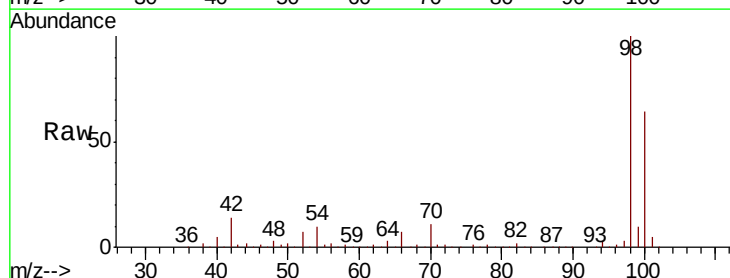


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

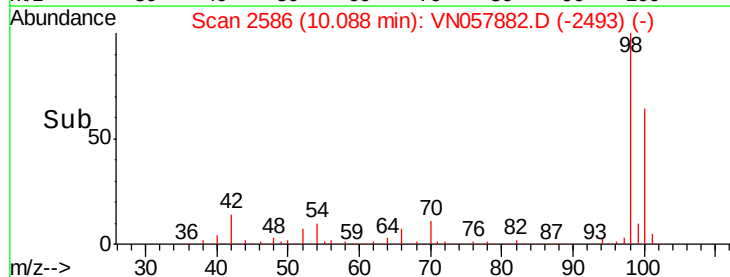
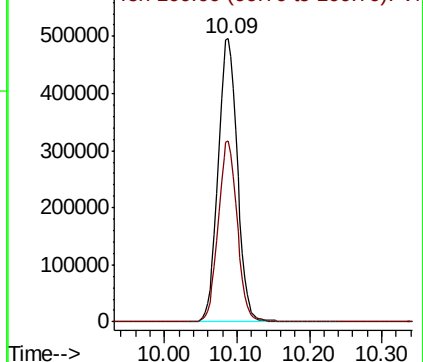


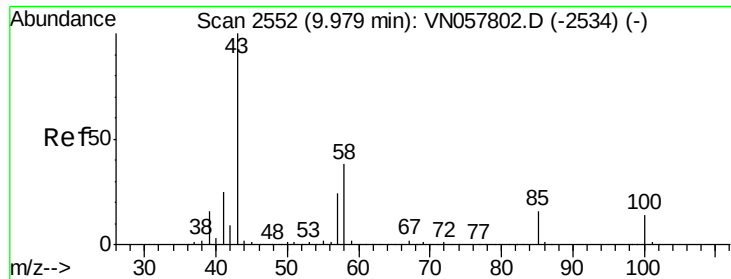
#50
Toluene-d8
Concen: 50.883 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

Tgt Ion: 98 Resp: 914395
Ion Ratio Lower Upper
98 100
100 62.7 50.3 75.5



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





#51

4-Methyl-2-Pentanone

Concen: 0.681 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

Instrument :

MSVOA_N

ClientSampleId :

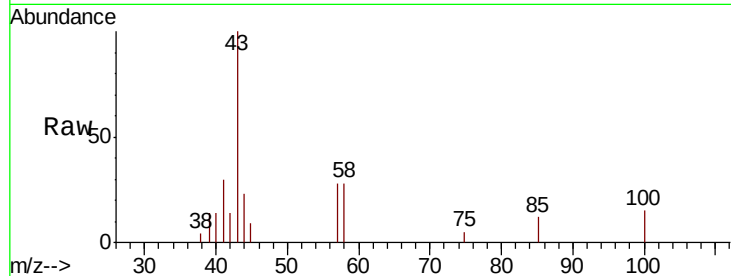
PAR-11-E2-(0)

Tgt Ion: 43 Resp: 4072

Ion Ratio Lower Upper

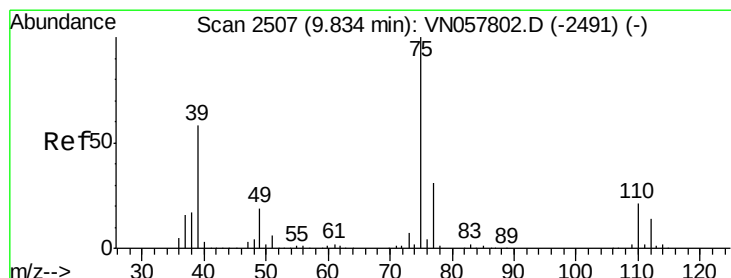
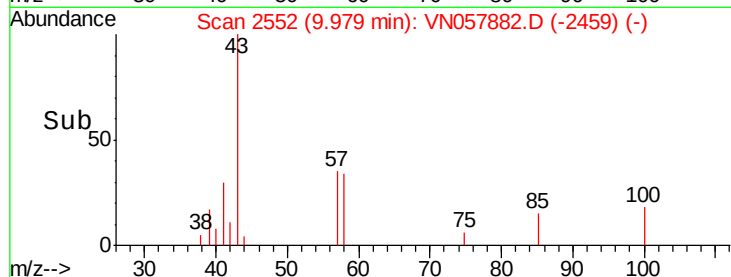
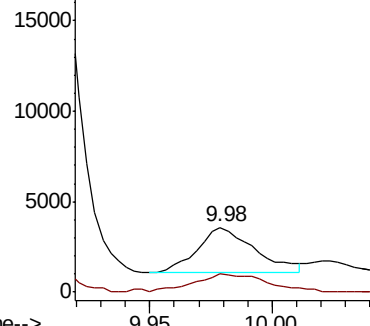
43 100

58 50.9 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.534 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

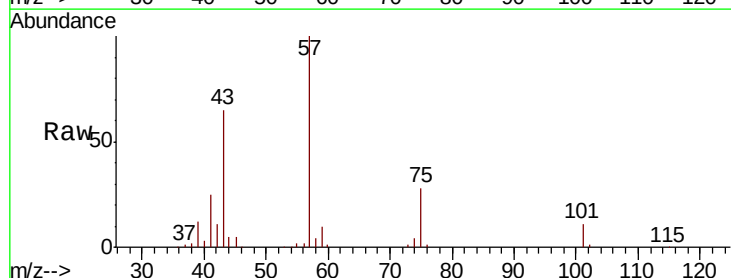
Tgt Ion: 75 Resp: 32407

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

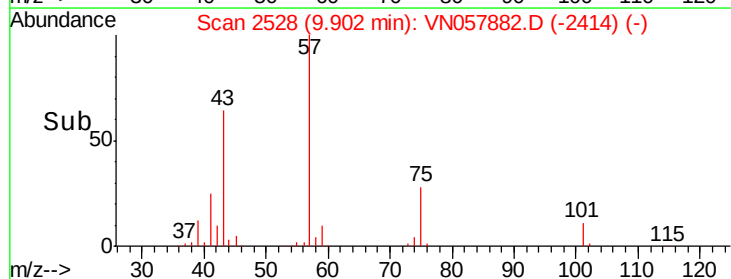
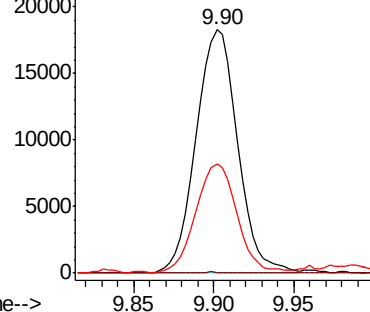
39 44.9 46.2 69.4#

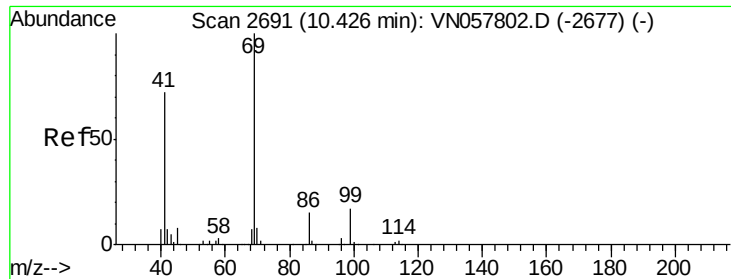


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.263 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(0)

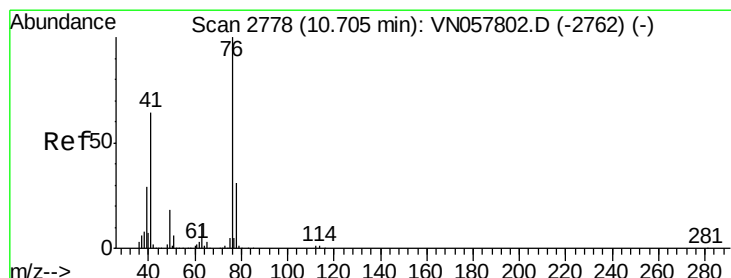
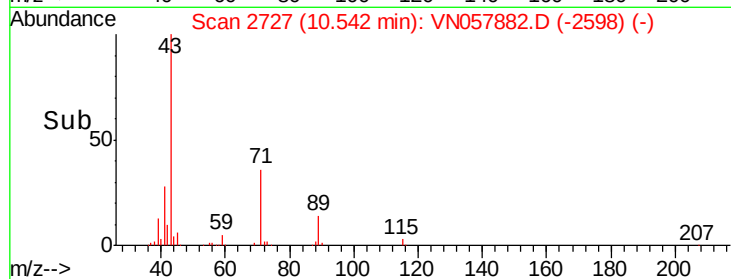
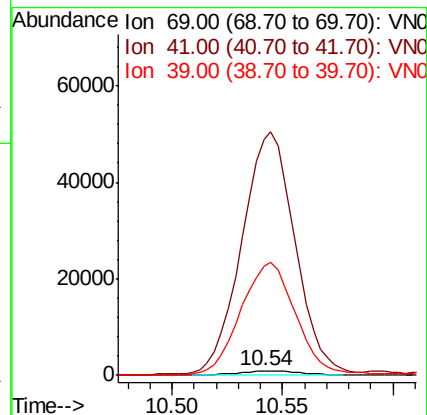
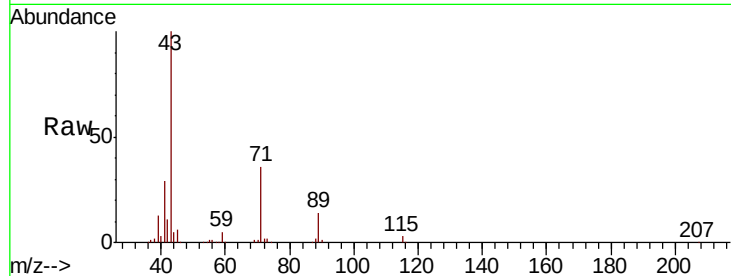
Tgt Ion: 69 Resp: 1849

Ion Ratio Lower Upper

69 100

41 4622.6 56.7 85.1#

39 2221.0 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.582 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057882.D

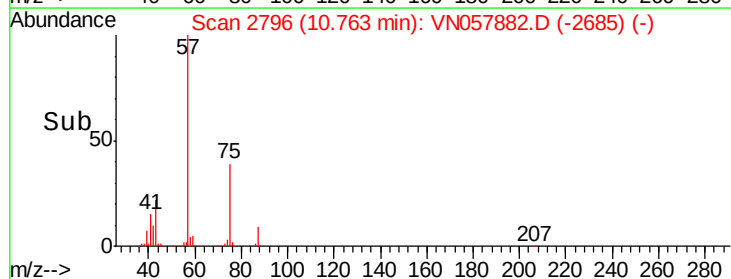
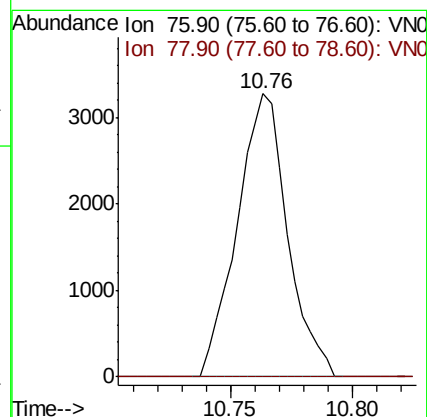
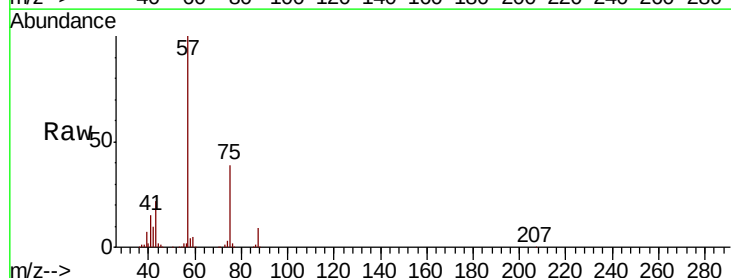
Acq: 10 Sep 2019 22:33

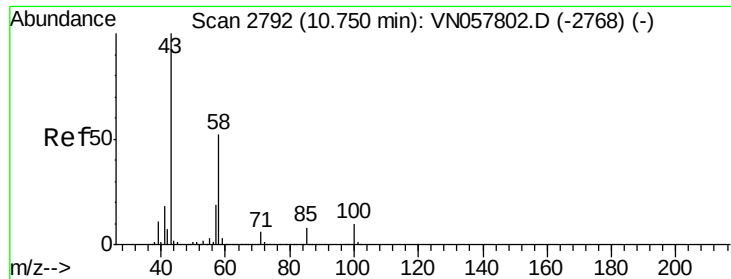
Tgt Ion: 76 Resp: 4689

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

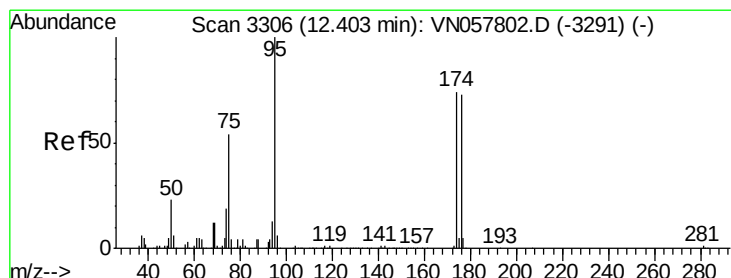
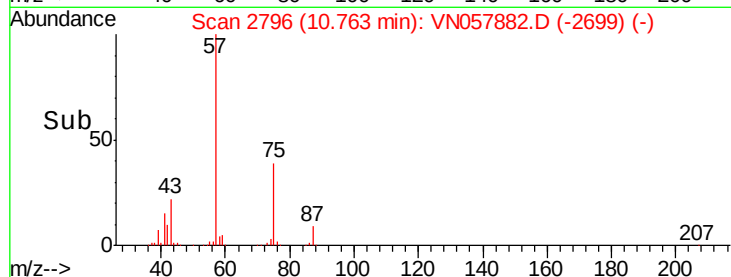
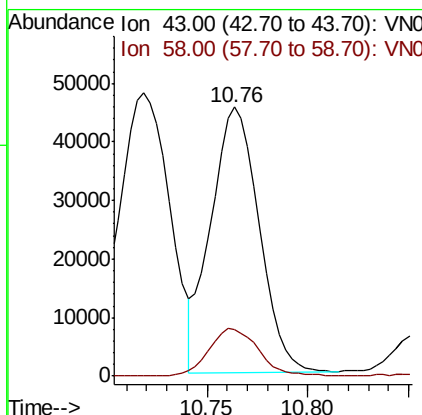
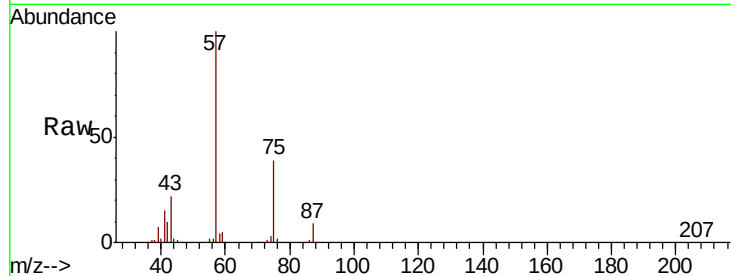




#59
2-Hexanone
Concen: 16.828 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

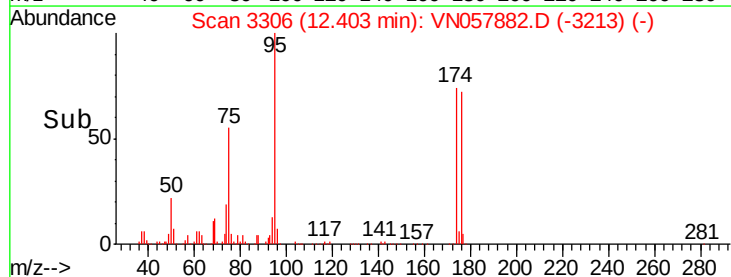
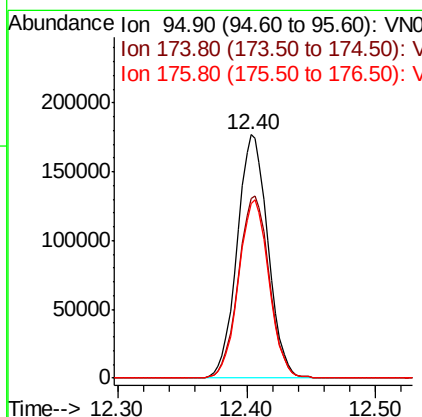
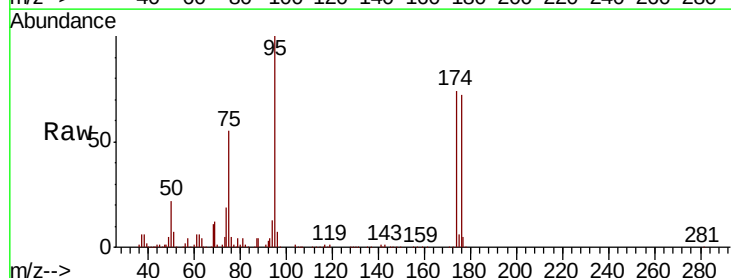
Instrument :
MSVOA_N
ClientSampled :
PAR-11-E2-(0)

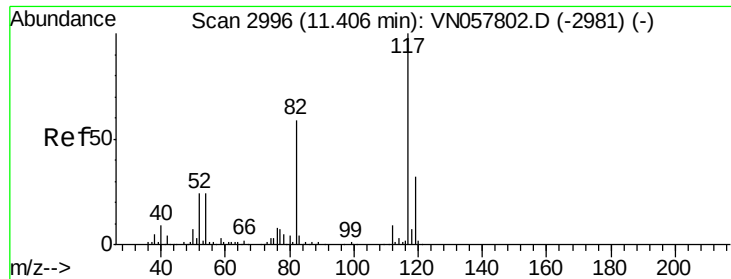
Tgt Ion: 43 Resp: 75425
Ion Ratio Lower Upper
43 100
58 18.5 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.840 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

Tgt Ion: 95 Resp: 293388
Ion Ratio Lower Upper
95 100
174 75.3 0.0 150.2
176 72.6 0.0 146.0

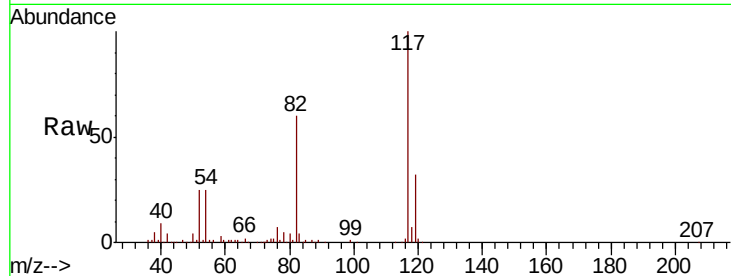




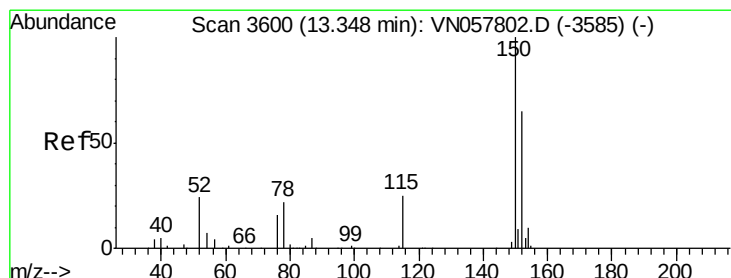
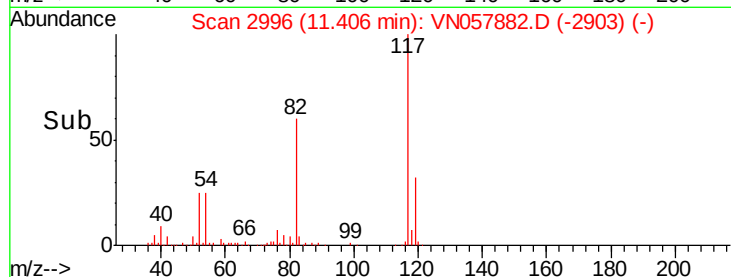
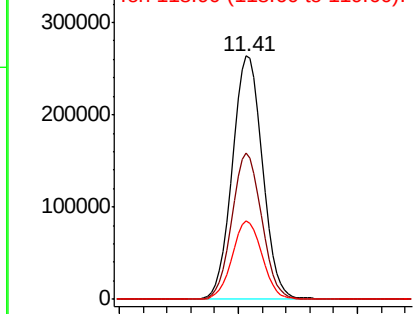
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E2-(0)

Tgt Ion:117 Resp: 463575
Ion Ratio Lower Upper
117 100
82 60.1 47.2 70.8
119 32.1 25.3 37.9

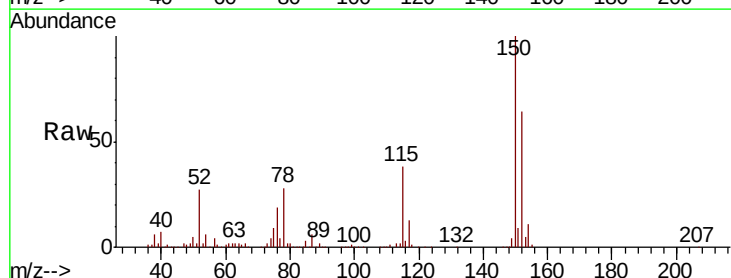


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

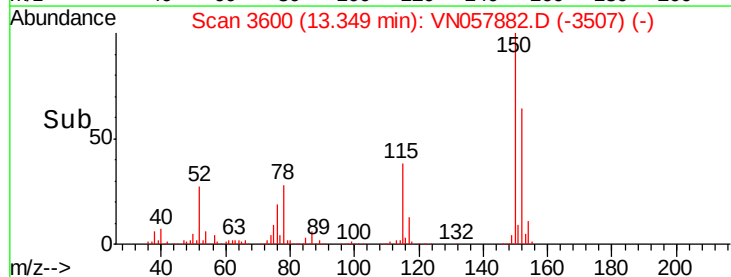
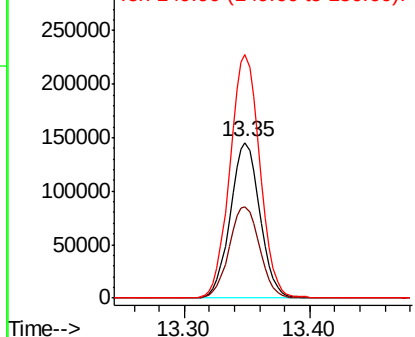


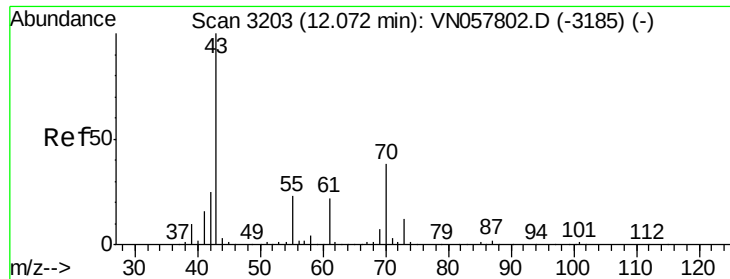
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

Tgt Ion:152 Resp: 237622
Ion Ratio Lower Upper
152 100
115 60.8 30.3 91.0
150 158.6 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: 0.387 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN057882.D

Acq: 10 Sep 2019 22:33

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(0)

Tgt Ion: 43 Resp: 3102

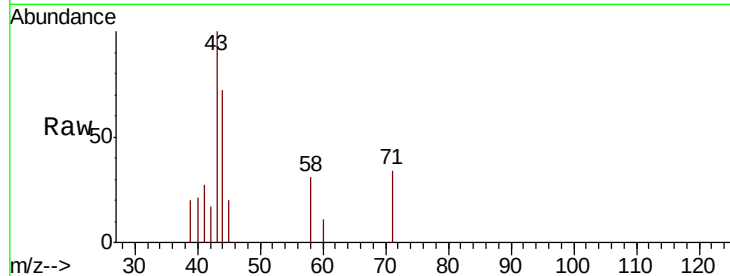
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.6 18.6 27.8#

61 0.0 17.4 26.2#

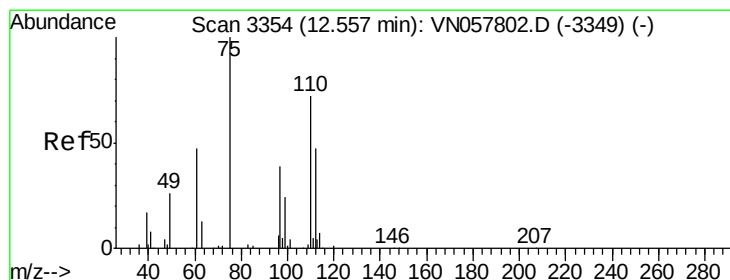
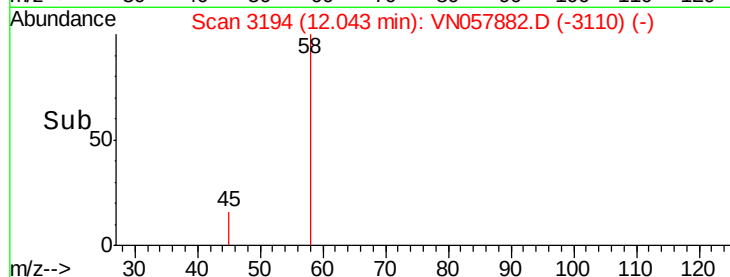
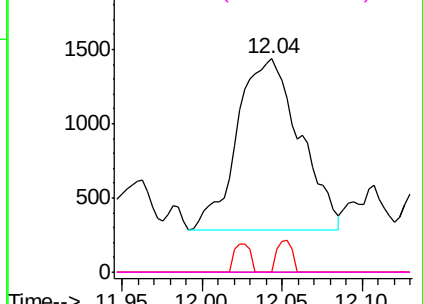


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.055 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057882.D

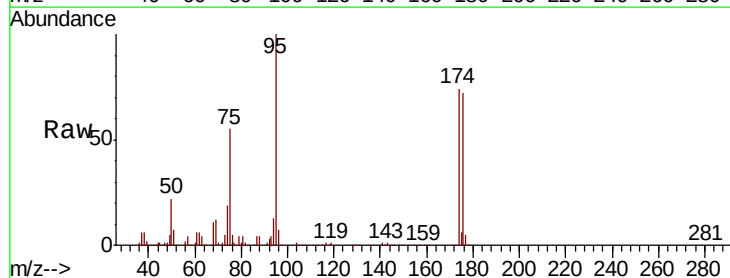
Acq: 10 Sep 2019 22:33

Tgt Ion: 75 Resp: 161560

Ion Ratio Lower Upper

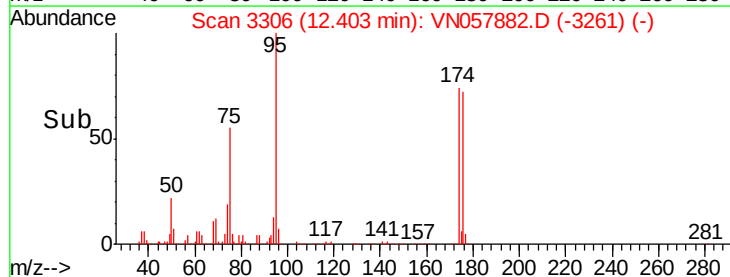
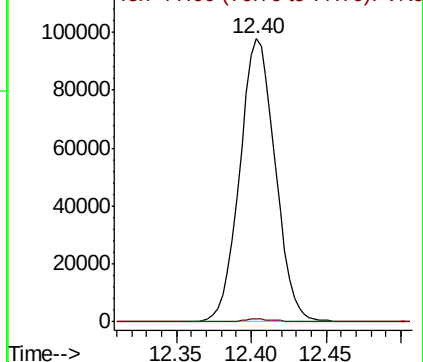
75 100

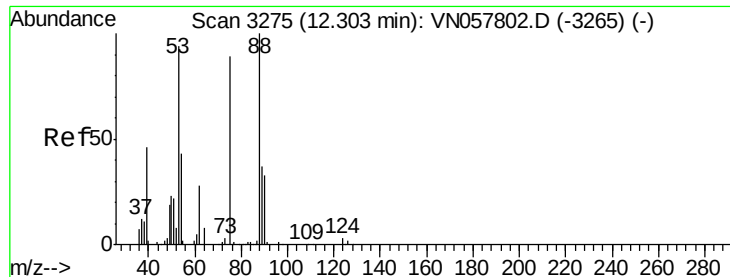
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

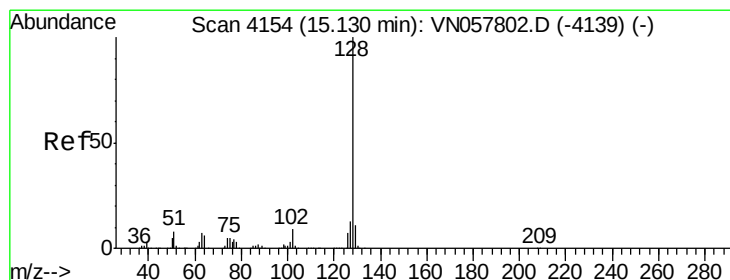
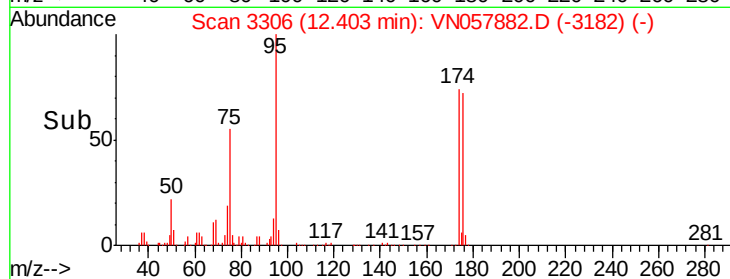
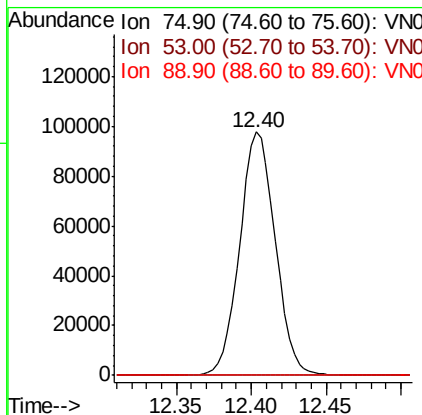
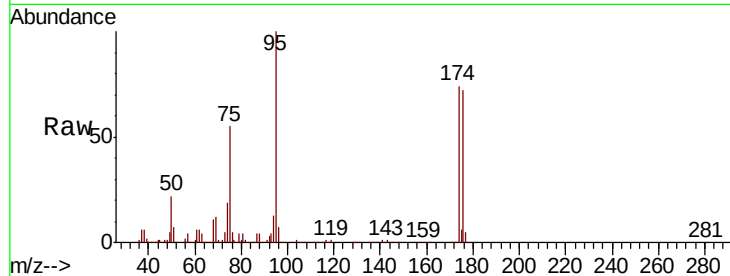




#81
trans-1,4-Dichloro-2-butene
Concen: 105.765 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E2-(0)

Tgt Ion: 75 Resp: 161560
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: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN057882.D
Acq: 10 Sep 2019 22:33

Tgt Ion: 128 Resp: 485
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

