

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058039.D
 Acq On : 13 Sep 2019 23:47
 Operator : JC/SP
 Sample : K4694-28
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(1.5)

Quant Time: Sep 14 03:41:25 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	318064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	554769	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	510288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261985	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	343748	53.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.72%	
35) Dibromofluoromethane	7.57	113	238122	46.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.02%	
50) Toluene-d8	10.09	98	910417	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	
62) 4-Bromofluorobenzene	12.41	95	318701	42.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.14%	

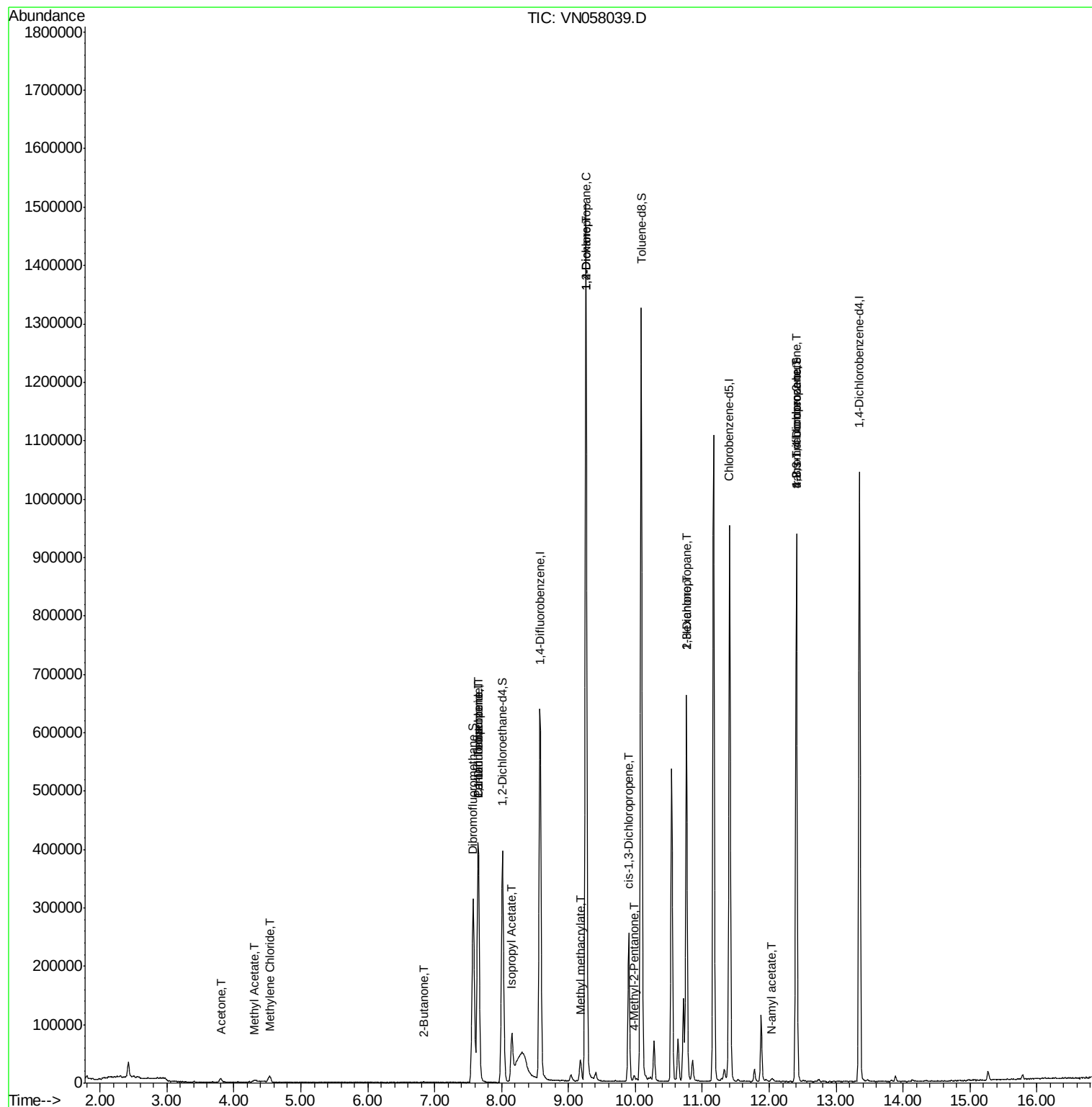
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	240	Below Cal		100
16) Acetone	3.80	43	10664	5.050	ug/l	100
18) Methyl Acetate	4.30	43	2737	0.486	ug/l	100
20) Methylene Chloride	4.53	84	7007	0.525	ug/l	92
25) 2-Butanone	6.82	43	852	0.279	ug/l #	49
31) Cyclohexane	7.65	56	8397	Below Cal	#	33
36) 1,1-Dichloropropene	7.65	75	27967	4.347	ug/l #	50
38) Carbon Tetrachloride	7.65	117	32686	5.564	ug/l #	16
43) Isopropyl Acetate	8.15	43	108473	9.704	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1900	0.337	ug/l #	44
48) Methyl methacrylate	9.17	41	5815	1.025	ug/l #	13
49) 1,4-Dioxane	9.26	88	109	1.137	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6849	1.035	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	42563	5.383	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	7118	0.799	ug/l #	43
59) 2-Hexanone	10.76	43	102139	20.599	ug/l #	52
74) N-amyl acetate	12.04	43	4251	0.480	ug/l #	51
76) 1,2,3-Trichloropropane	12.41	75	172985	29.188	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	172985	102.714	ug/l #	6
95) Naphthalene	15.12	128	239	Below Cal	#	69

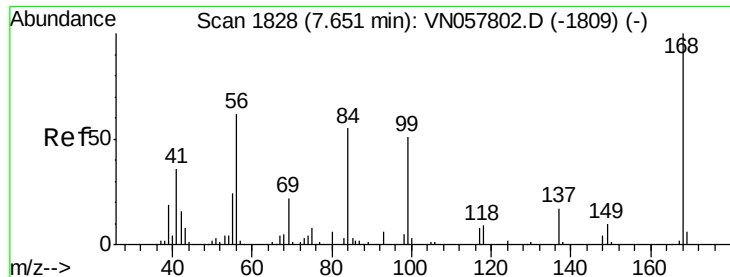
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampleId :

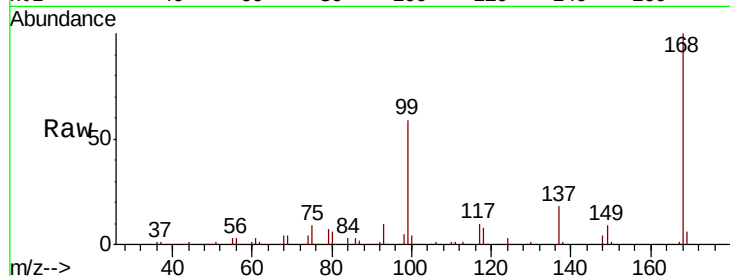
T1-4-(1.5)

Tgt Ion:168 Resp: 318064

Ion Ratio Lower Upper

168 100

99 59.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

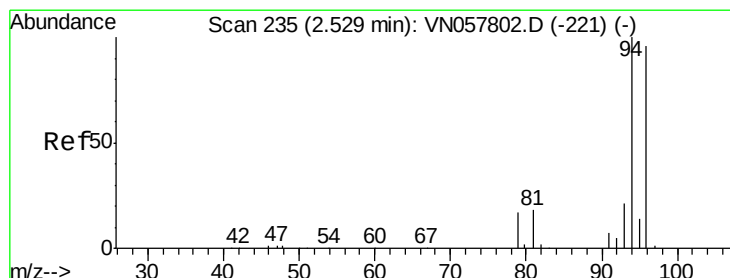
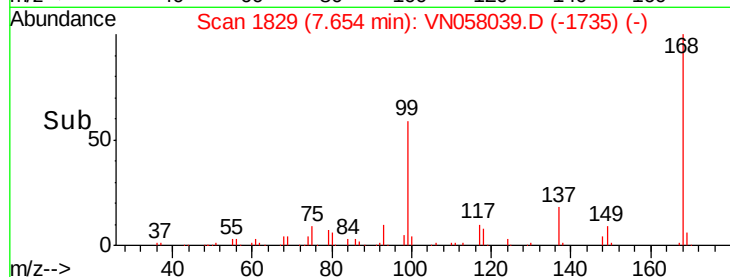
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN058039.D

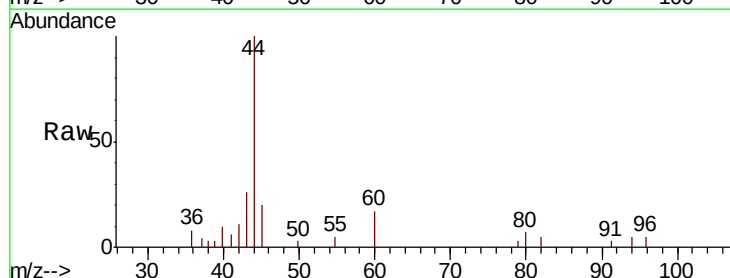
Acq: 13 Sep 2019 23:47

Tgt Ion: 94 Resp: 240

Ion Ratio Lower Upper

94 100

96 96.0 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.55

500

400

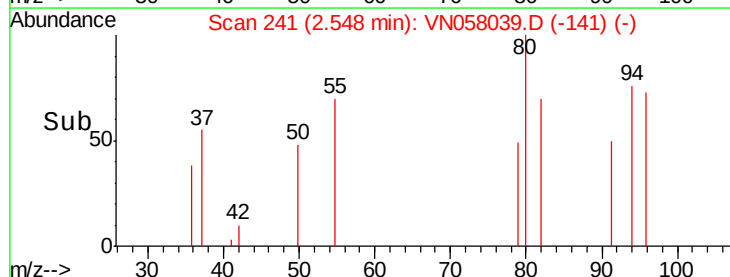
300

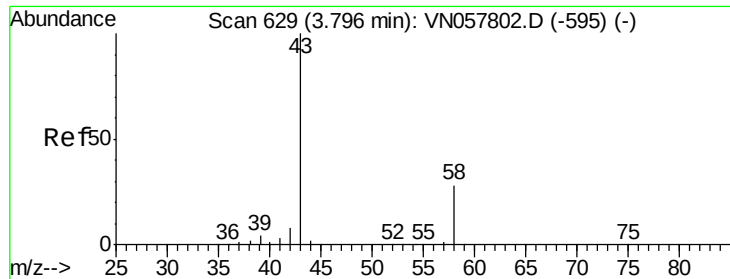
200

100

0

Time-->





#16

Acetone

Concen: 5.050 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampleId :

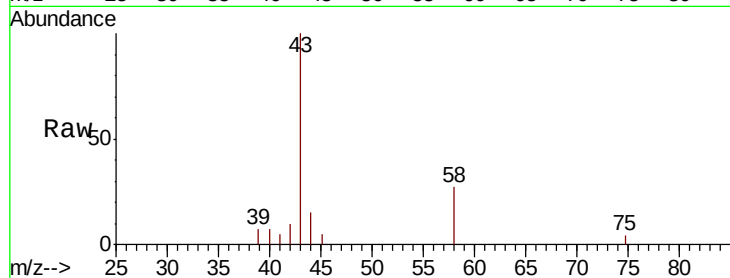
T1-4-(1.5)

Tgt Ion: 43 Resp: 10664

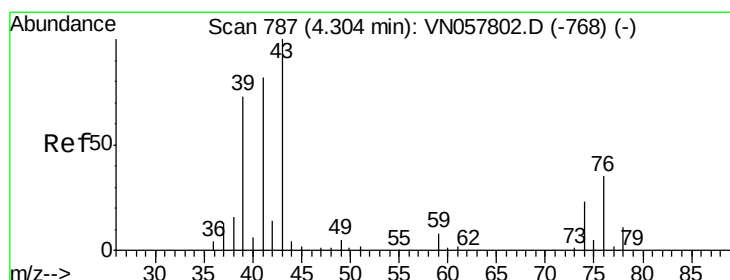
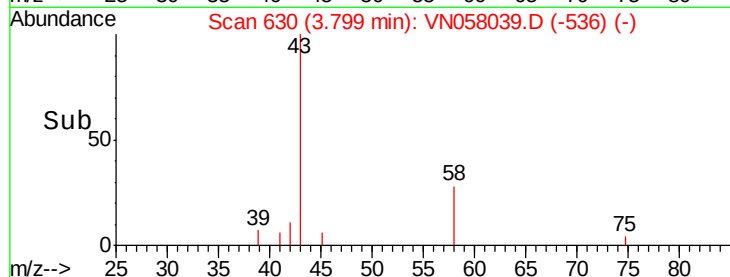
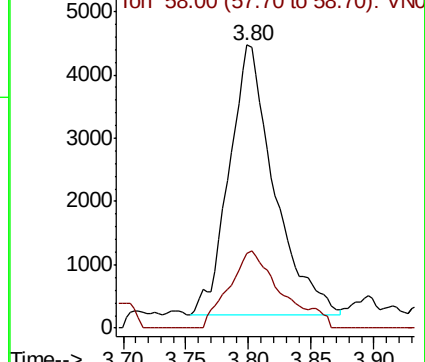
Ion Ratio Lower Upper

43 100

58 27.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058039.D (-536) (-)



#18

Methyl Acetate

Concen: 0.486 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058039.D

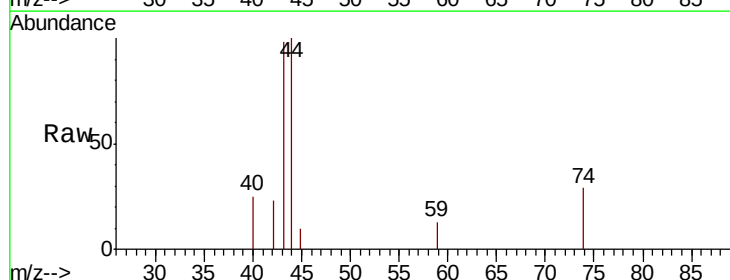
Acq: 13 Sep 2019 23:47

Tgt Ion: 43 Resp: 2737

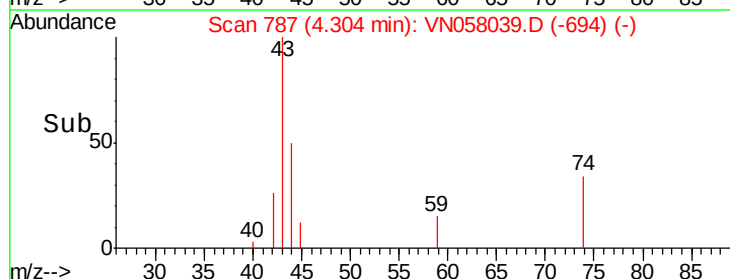
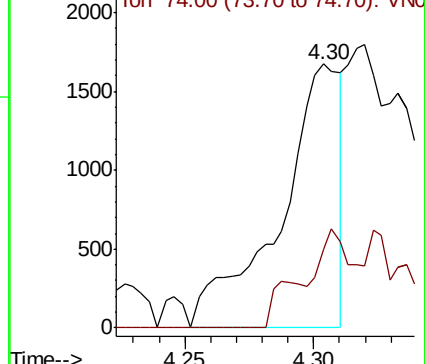
Ion Ratio Lower Upper

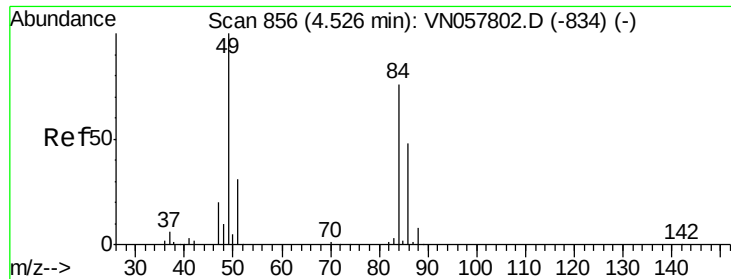
43 100

74 22.5 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN058039.D (-694) (-)

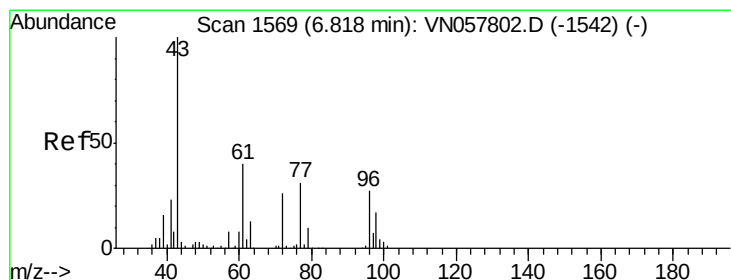
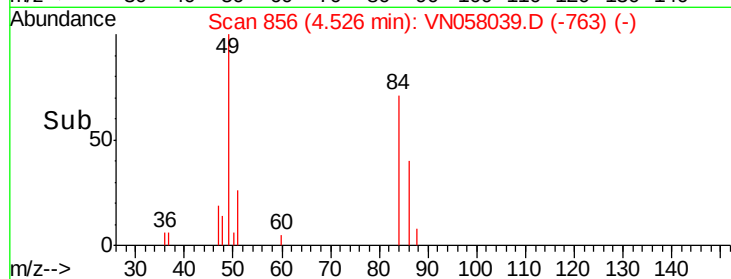
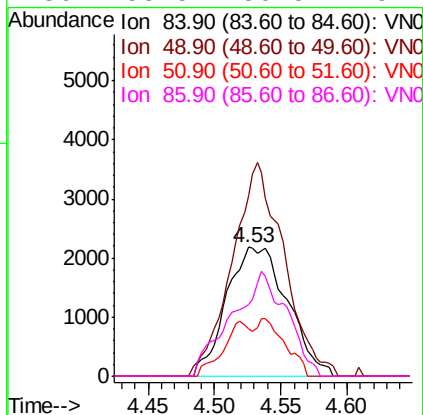
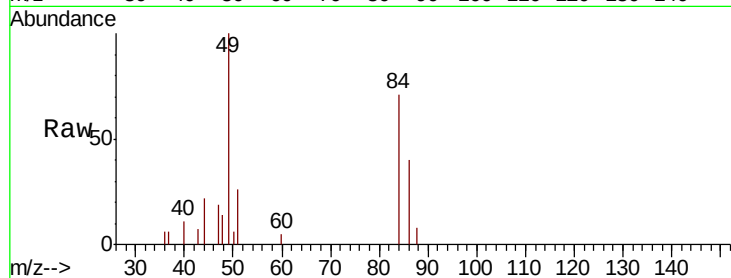




#20
Methylene Chloride
Concen: 0.525 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

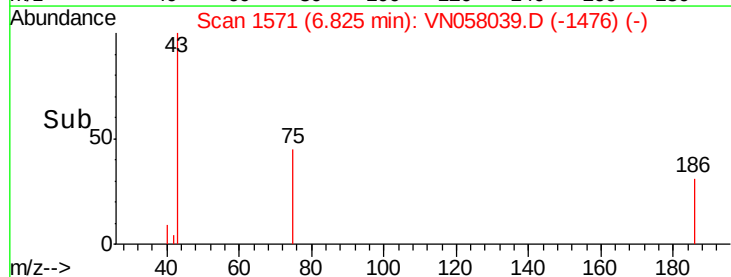
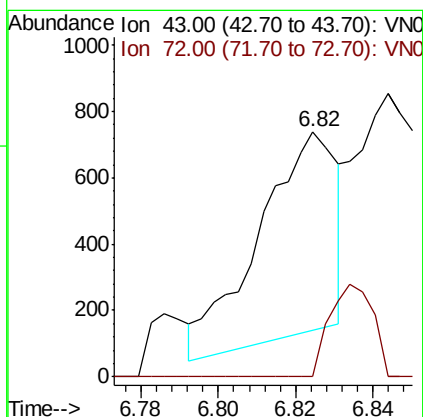
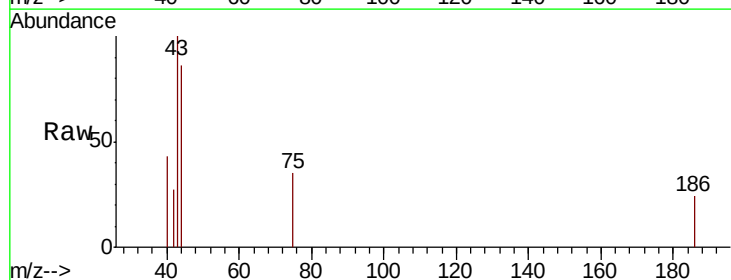
Instrument :
MSVOA_N
ClientSampled :
T1-4-(1.5)

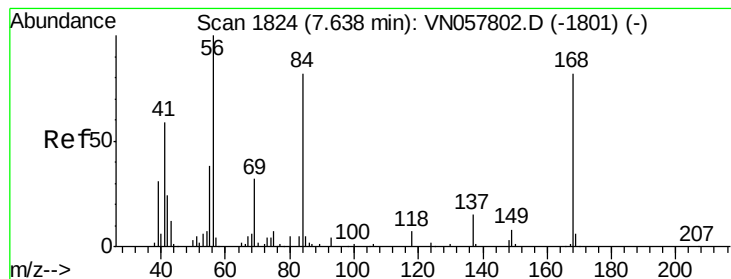
Tgt Ion:	84	Resp:	7007
Ion	Ratio	Lower	Upper
84	100		
49	140.2	104.8	157.2
51	36.3	33.0	49.4
86	55.5	50.5	75.7



#25
2-Butanone
Concen: 0.279 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

Tgt Ion:	43	Resp:	852
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampled :

T1-4-(1.5)

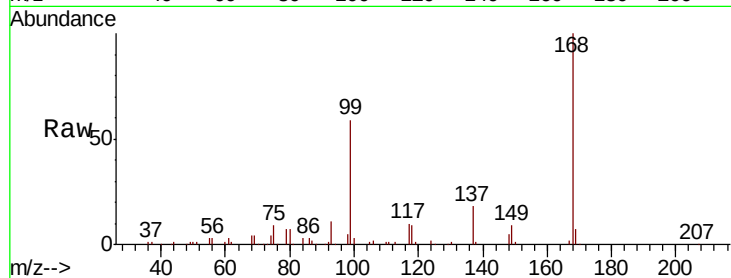
Tgt Ion: 56 Resp: 8397

Ion Ratio Lower Upper

56 100

69 146.1 25.9 38.9#

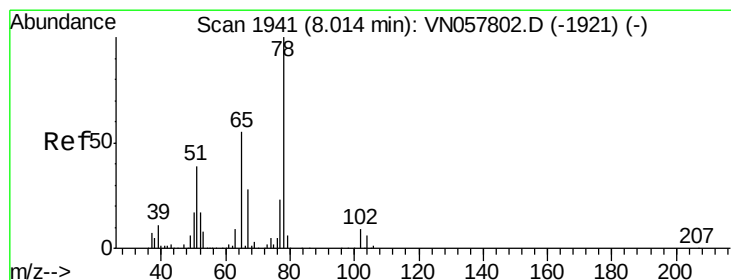
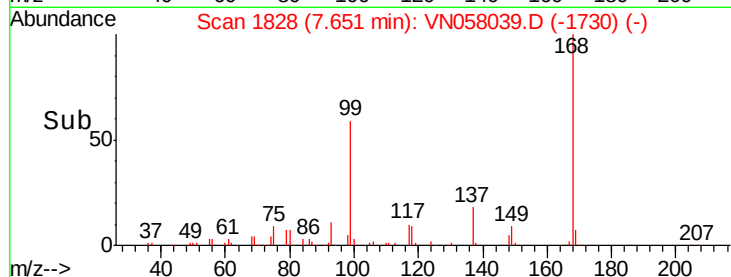
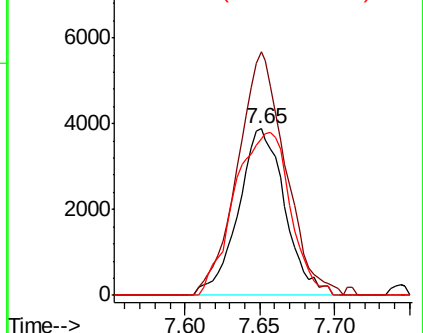
84 94.2 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 53.359 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058039.D

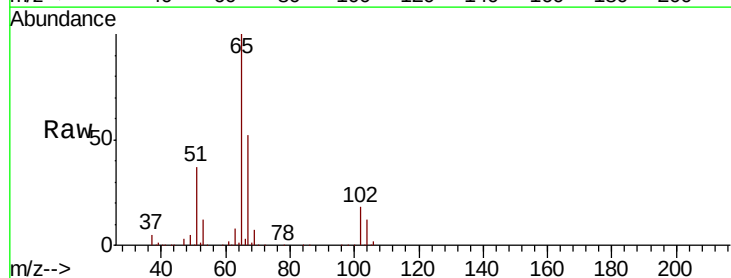
Acq: 13 Sep 2019 23:47

Tgt Ion: 65 Resp: 343748

Ion Ratio Lower Upper

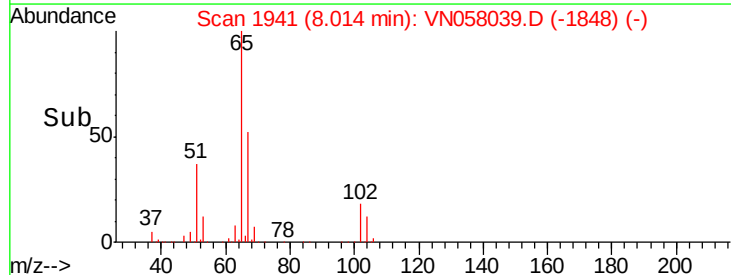
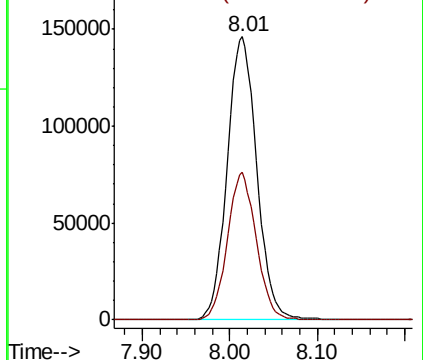
65 100

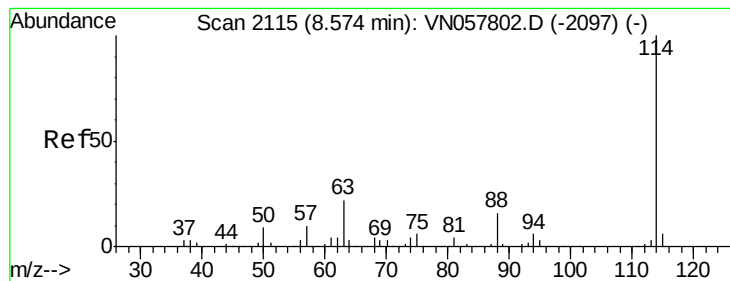
67 50.6 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampleId :

T1-4-(1.5)

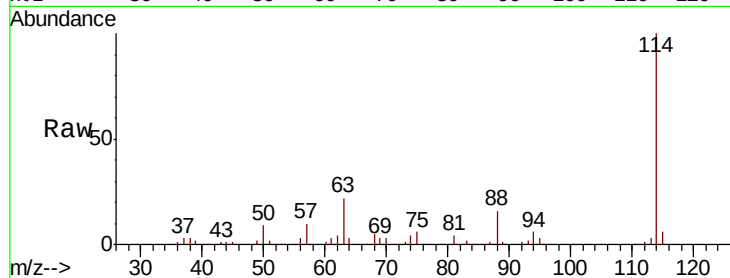
Tgt Ion:114 Resp: 554769

Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.0

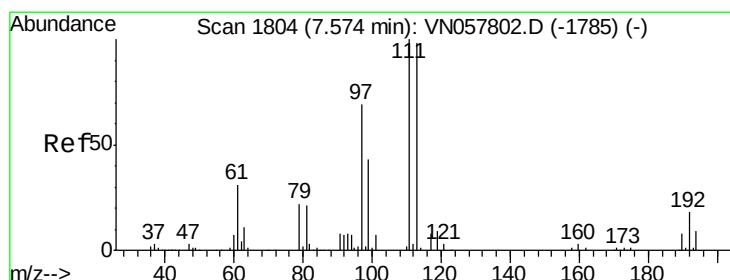
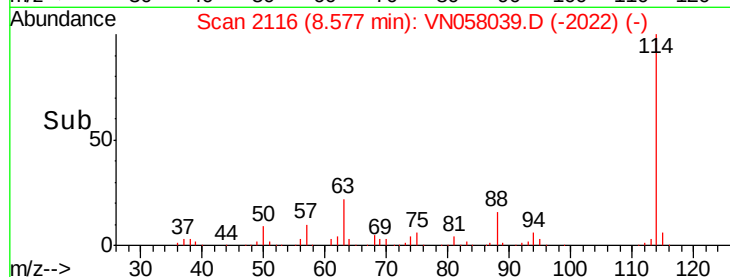
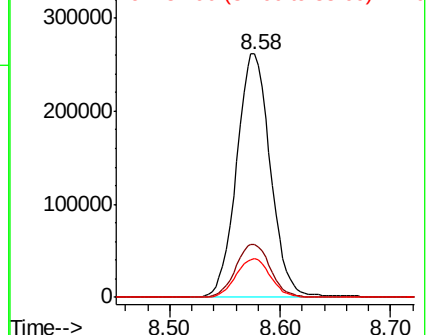
88 15.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.506 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

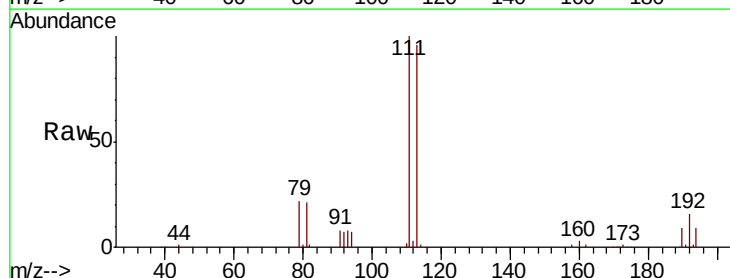
Tgt Ion:113 Resp: 238122

Ion Ratio Lower Upper

113 100

111 102.9 81.3 121.9

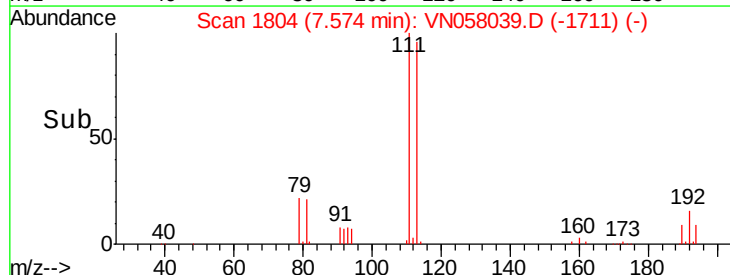
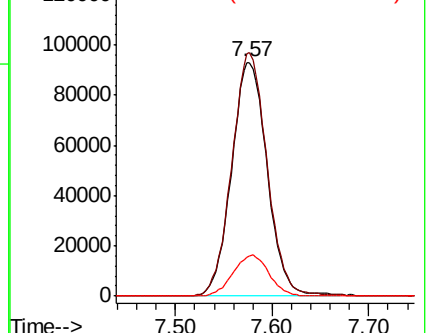
192 17.7 14.6 22.0

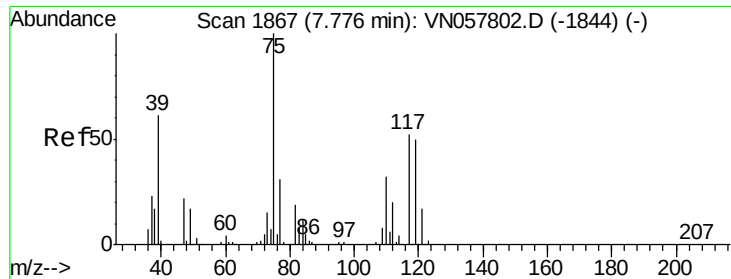


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

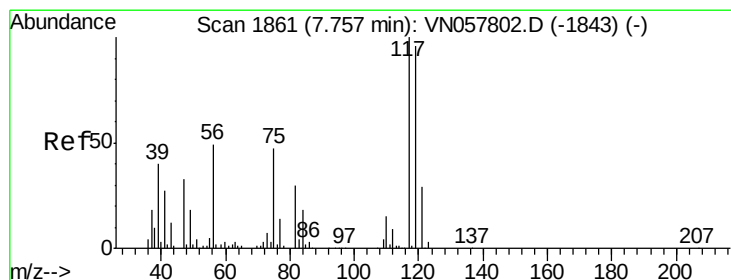
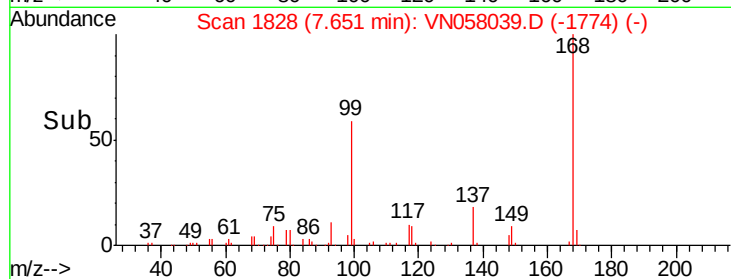
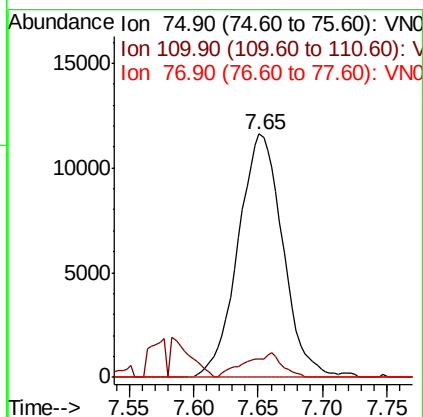
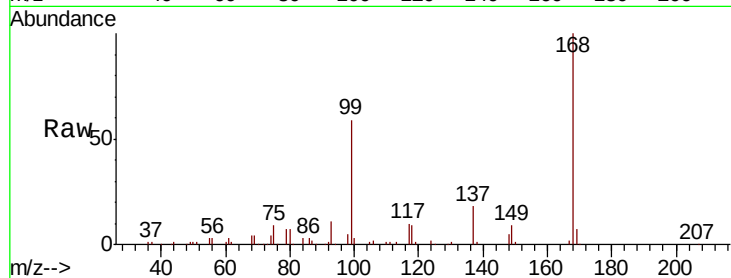




#36
 1,1-Dichloropropene
 Concen: 4.347 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058039.D
 Acq: 13 Sep 2019 23:47

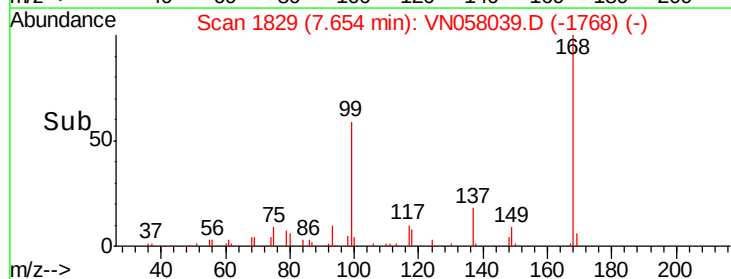
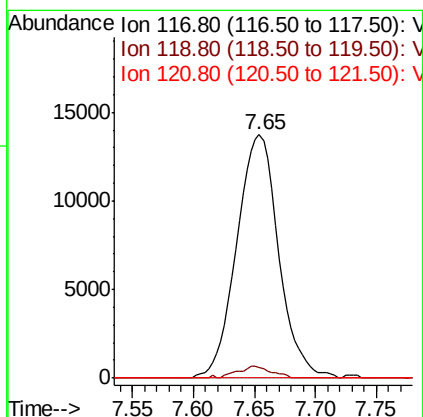
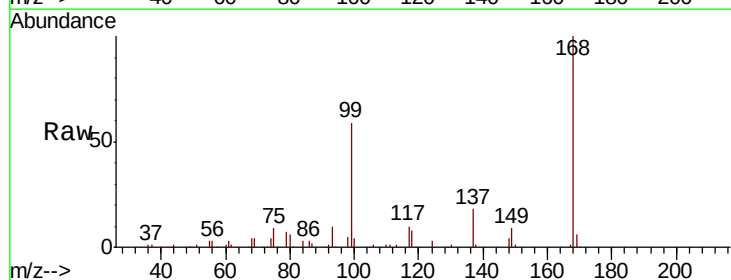
Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(1.5)

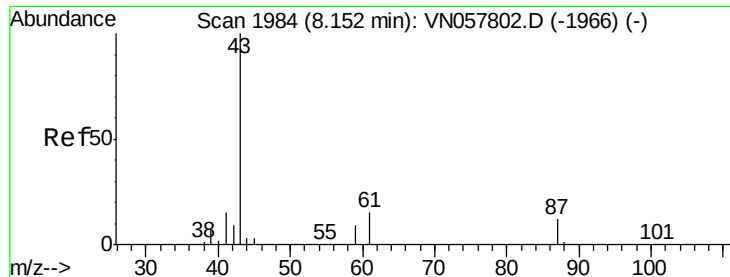
Tgt Ion: 75 Resp: 27967
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.564 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058039.D
 Acq: 13 Sep 2019 23:47

Tgt Ion: 117 Resp: 32686
 Ion Ratio Lower Upper
 117 100
 119 4.6 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 9.704 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampleId :

T1-4-(1.5)

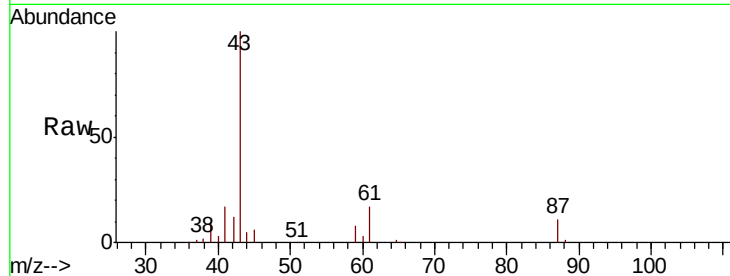
Tgt Ion: 43 Resp: 108473

Ion Ratio Lower Upper

43 100

61 15.1 20.1 30.1#

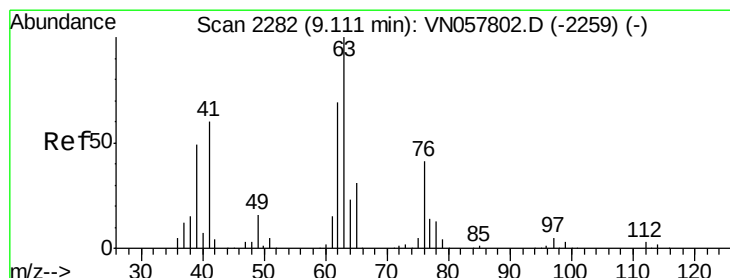
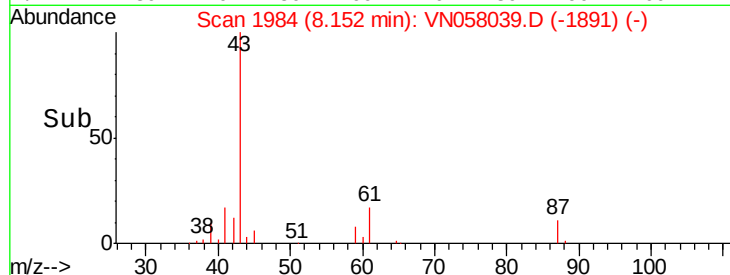
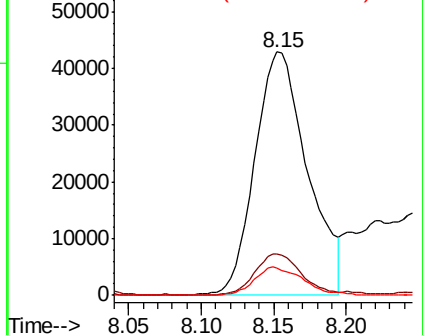
87 10.7 9.5 14.3



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



#45

1,2-Dichloropropane

Concen: 0.337 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058039.D

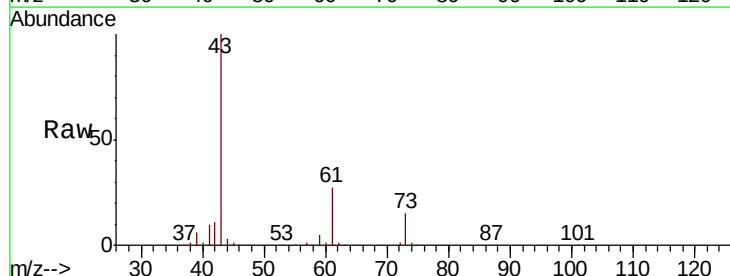
Acq: 13 Sep 2019 23:47

Tgt Ion: 63 Resp: 1900

Ion Ratio Lower Upper

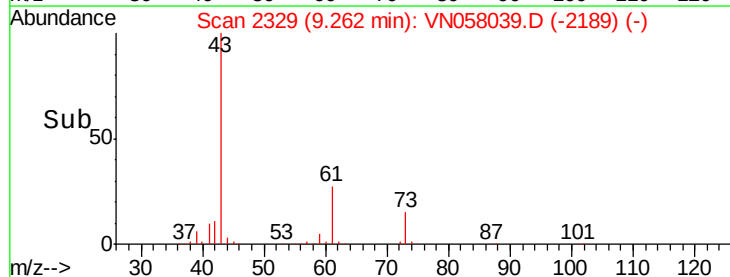
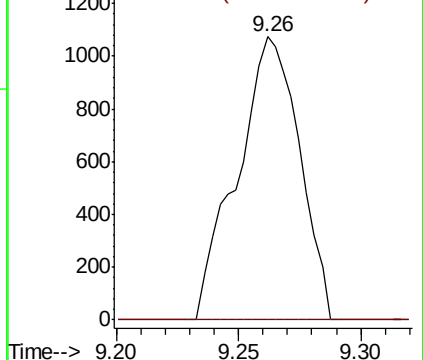
63 100

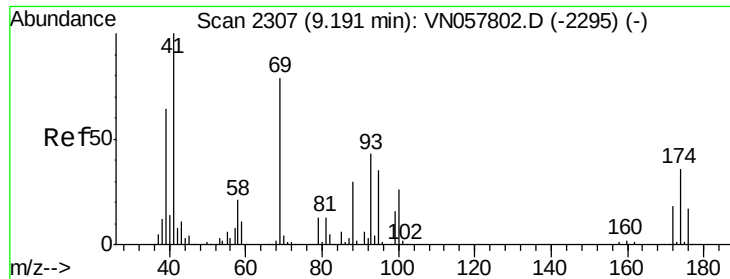
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

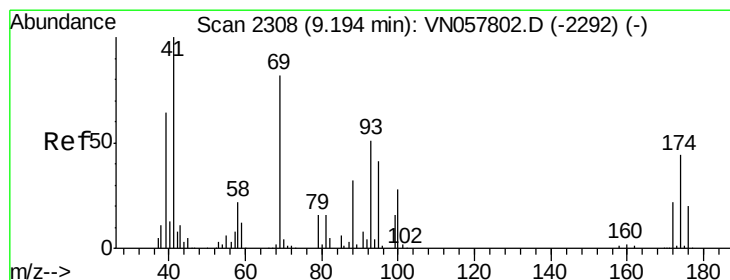
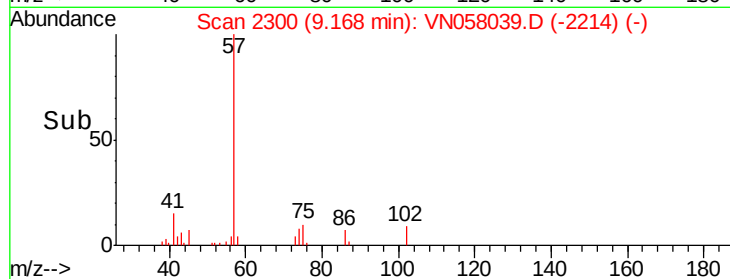
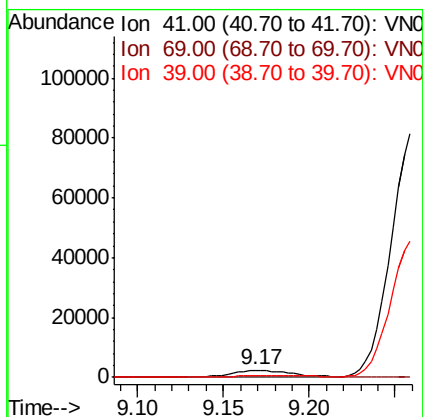
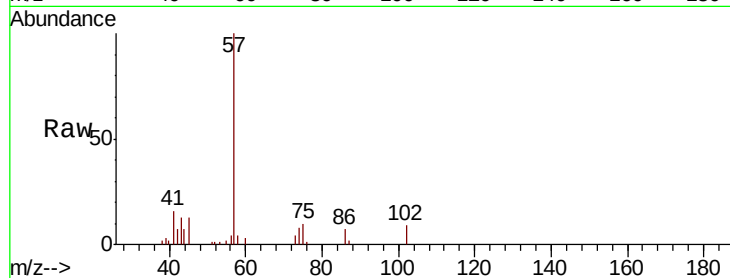




#48
Methyl methacrylate
Concen: 1.025 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

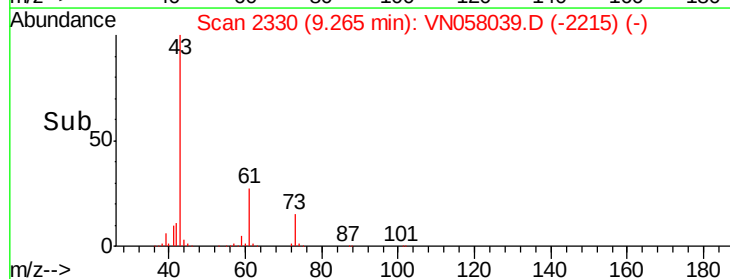
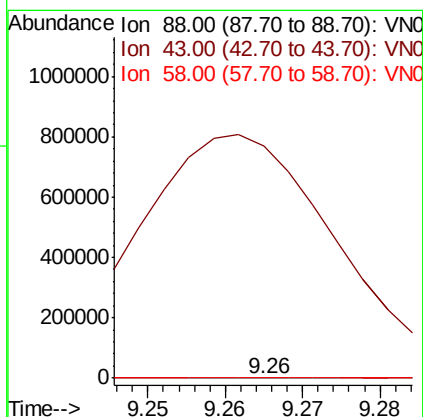
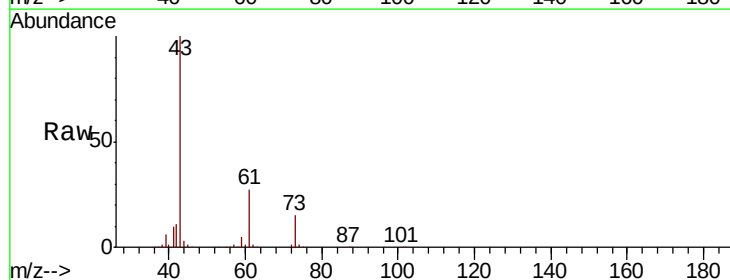
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(1.5)

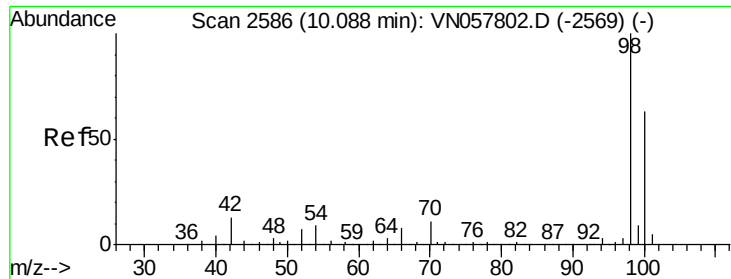
Tgt Ion: 41 Resp: 5815
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 1.137 ug/l
RT: 9.26 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 1390424.8 28.5 42.7#
58 6078.9 55.8 83.6#





#50

Toluene-d8

Concen: 45.796 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampled :

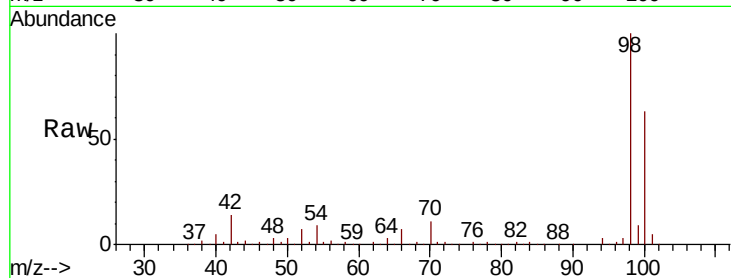
T1-4-(1.5)

Tgt Ion: 98 Resp: 910417

Ion Ratio Lower Upper

98 100

100 63.3 50.3 75.5



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

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

500000

400000

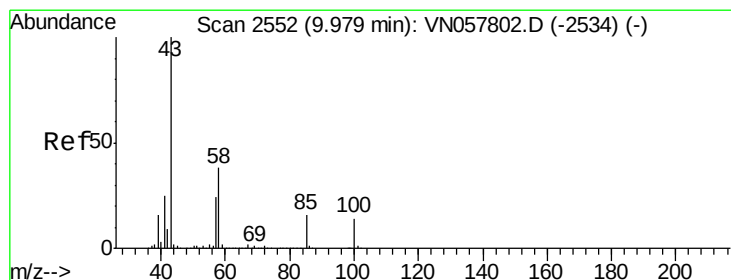
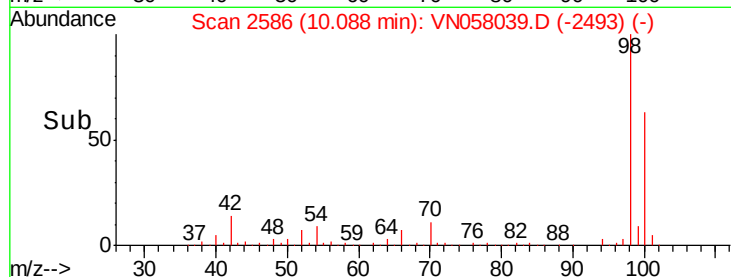
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.035 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN058039.D

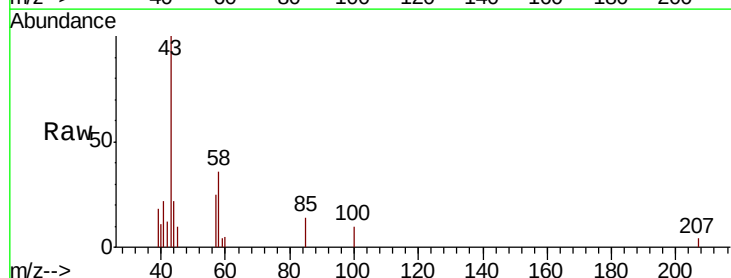
Acq: 13 Sep 2019 23:47

Tgt Ion: 43 Resp: 6849

Ion Ratio Lower Upper

43 100

58 37.3 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) (-)

8000

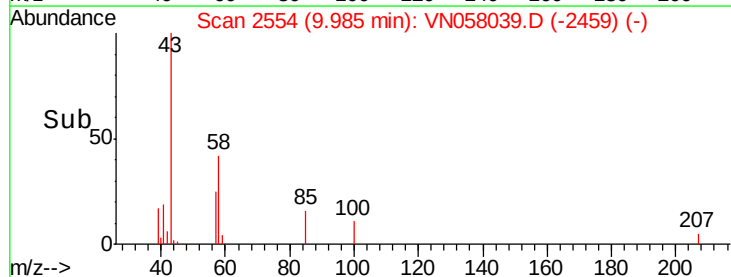
6000

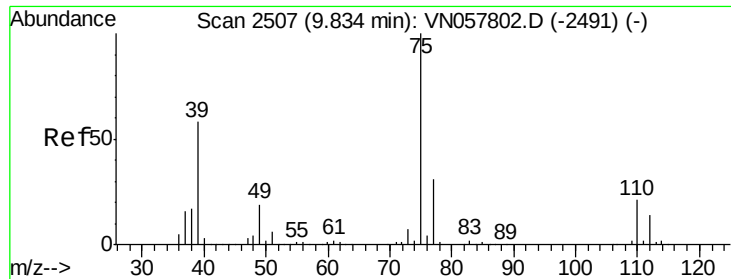
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.383 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampled :

T1-4-(1.5)

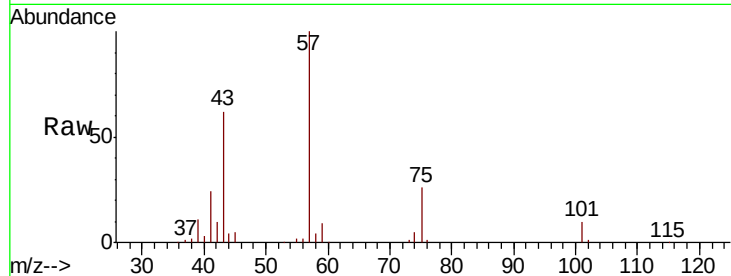
Tgt Ion: 75 Resp: 42563

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

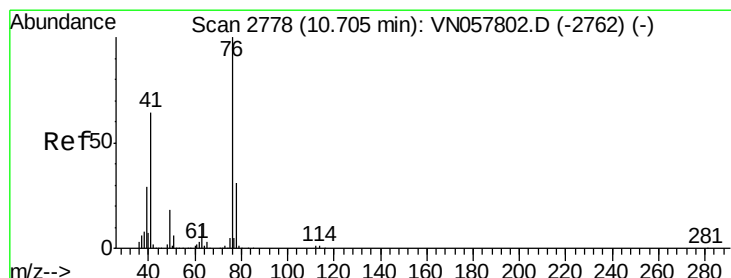
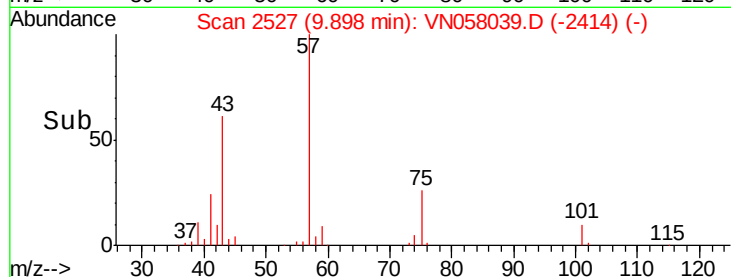
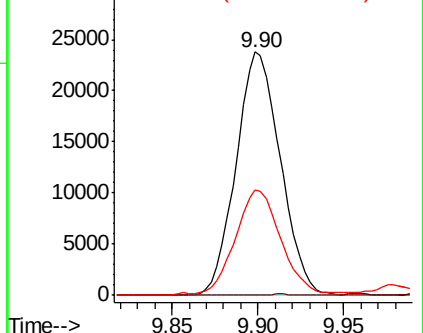
39 42.8 46.2 69.4#



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



#57

1,3-Dichloropropane

Concen: 0.799 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058039.D

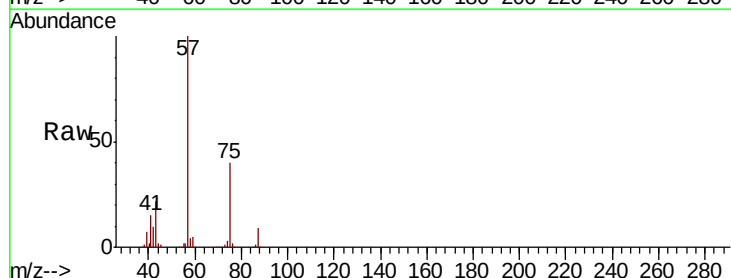
Acq: 13 Sep 2019 23:47

Tgt Ion: 76 Resp: 7118

Ion Ratio Lower Upper

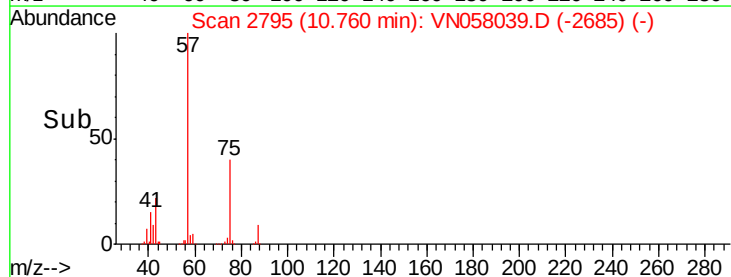
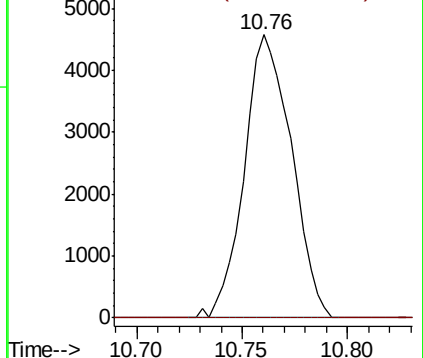
76 100

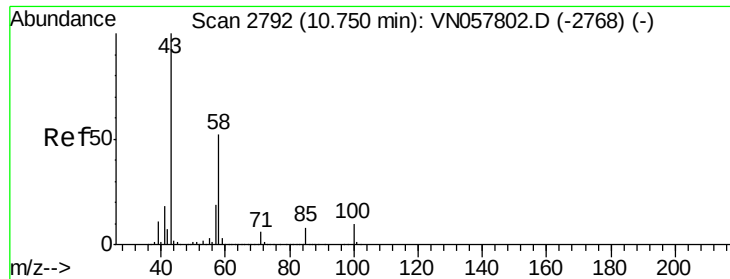
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

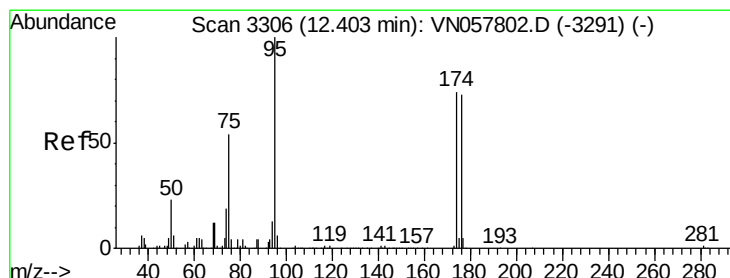
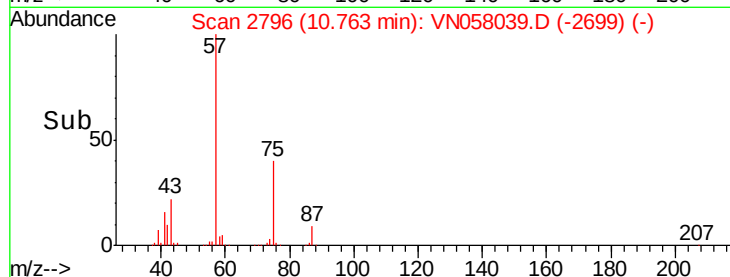
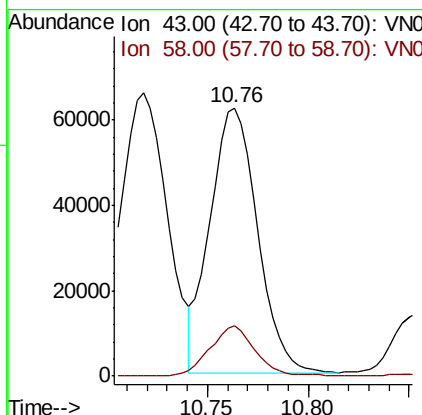
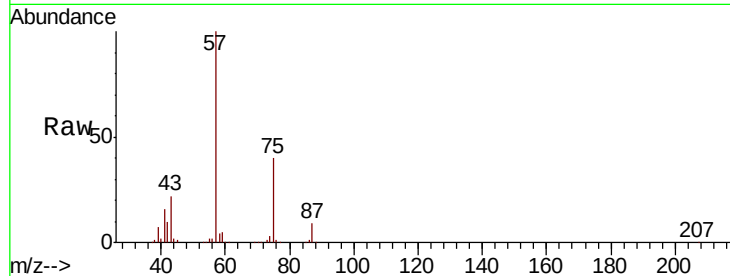




#59
2-Hexanone
Concen: 20.599 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

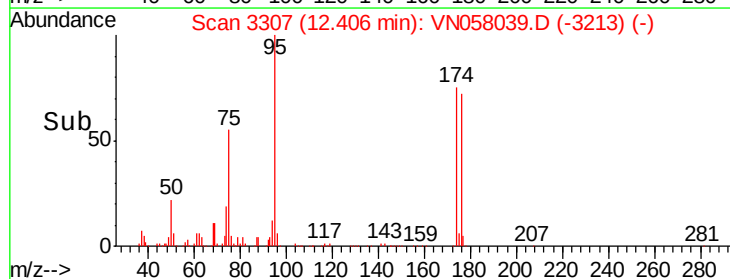
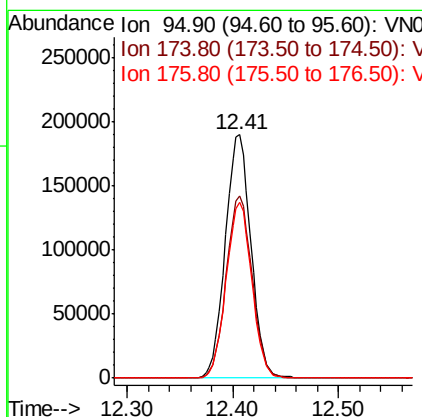
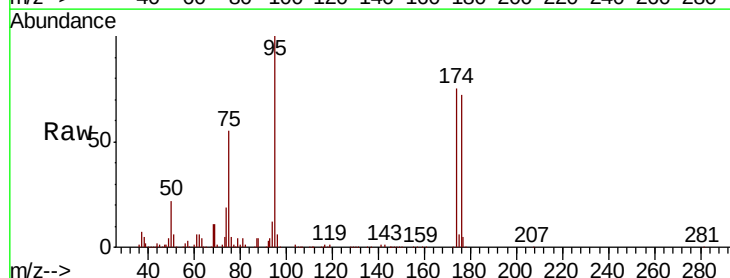
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(1.5)

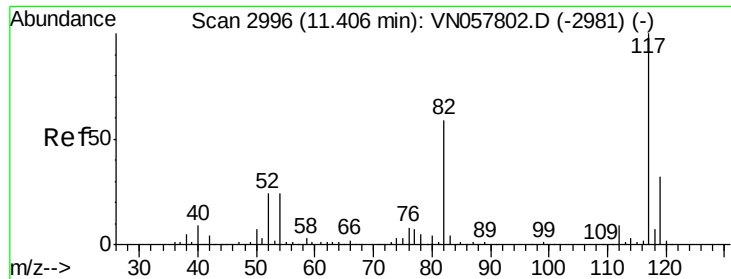
Tgt Ion: 43 Resp: 102139
Ion Ratio Lower Upper
43 100
58 18.0 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.068 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

Tgt Ion: 95 Resp: 318701
Ion Ratio Lower Upper
95 100
174 75.7 0.0 150.2
176 72.1 0.0 146.0

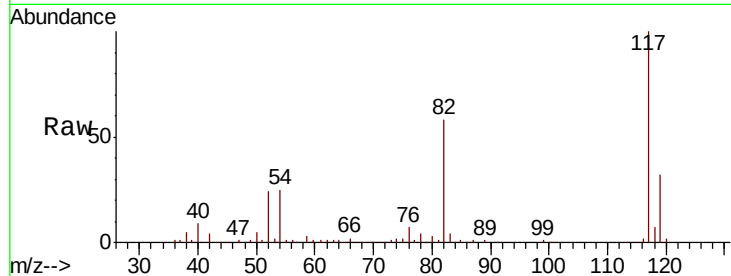




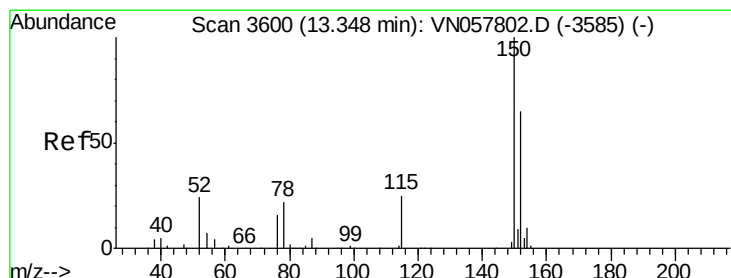
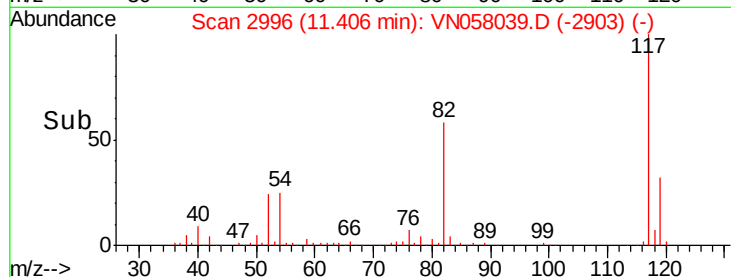
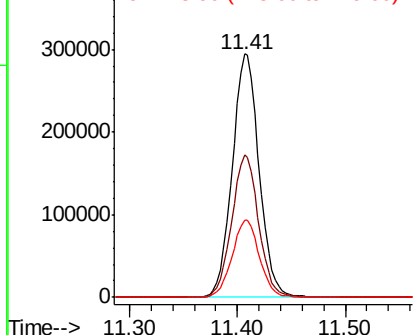
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

Instrument :
MSVOA_N
ClientSampleId :
T1-4-(1.5)

Tgt Ion:117 Resp: 510288
Ion Ratio Lower Upper
117 100
82 58.3 47.2 70.8
119 31.6 25.3 37.9

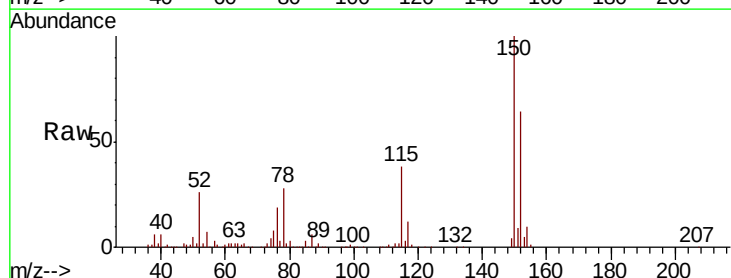


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

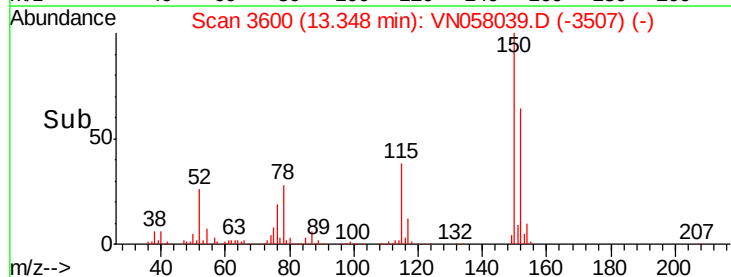
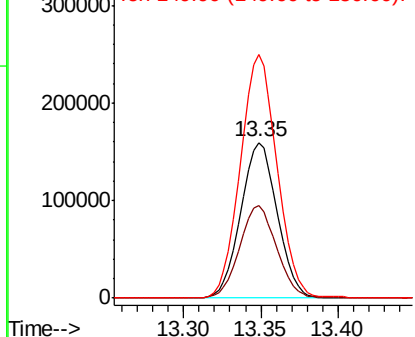


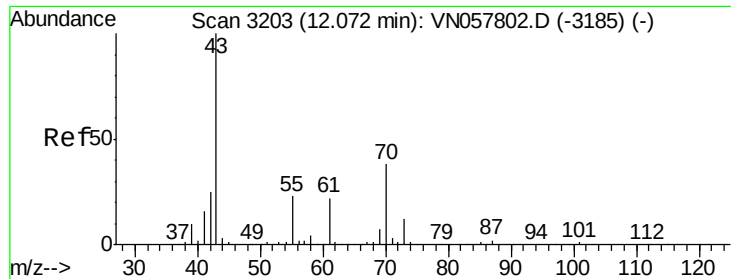
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058039.D
Acq: 13 Sep 2019 23:47

Tgt Ion:152 Resp: 261985
Ion Ratio Lower Upper
152 100
115 60.0 30.3 91.0
150 157.3 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-amyI acetate

Concen: 0.480 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampleId :

T1-4-(1.5)

Tgt Ion: 43 Resp: 4251

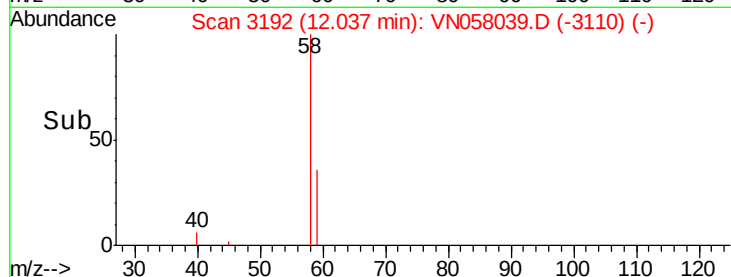
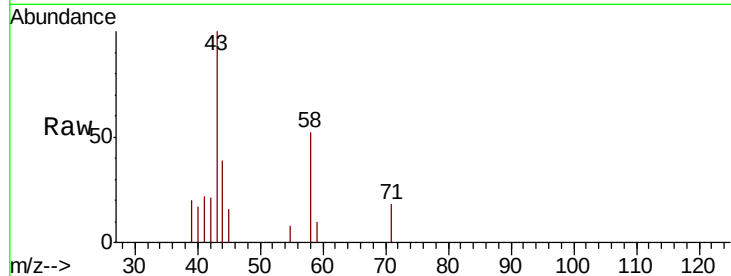
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 9.5 18.6 27.8#

61 0.0 17.4 26.2#

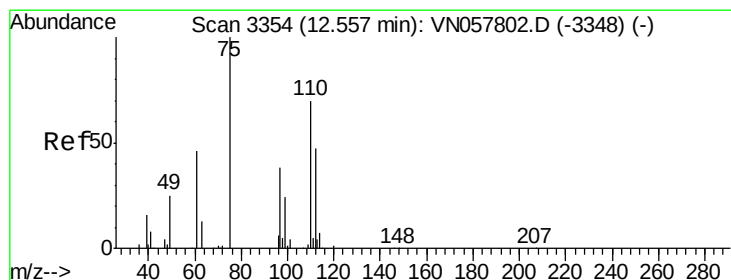
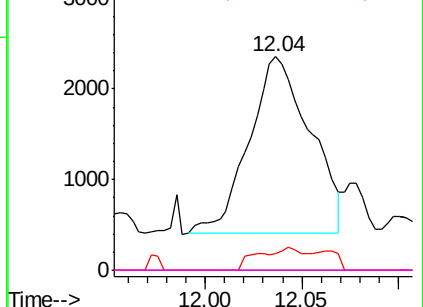


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.188 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058039.D

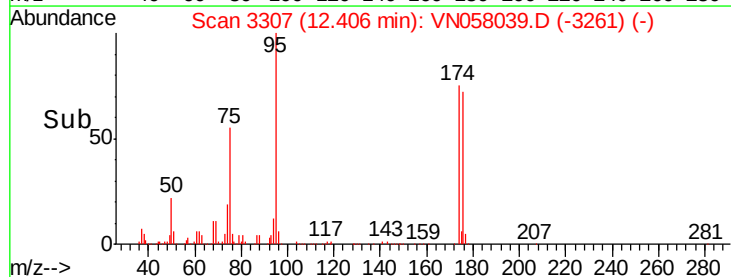
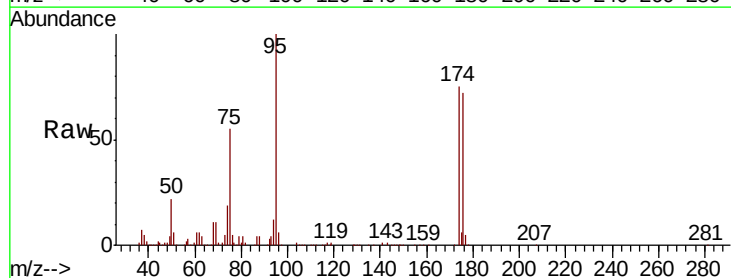
Acq: 13 Sep 2019 23:47

Tgt Ion: 75 Resp: 172985

Ion Ratio Lower Upper

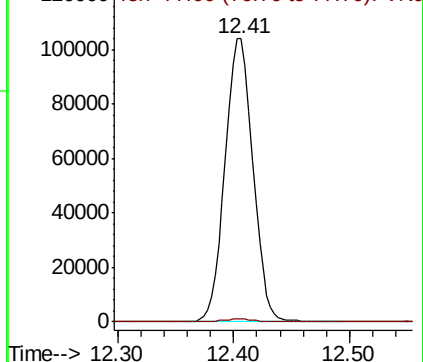
75 100

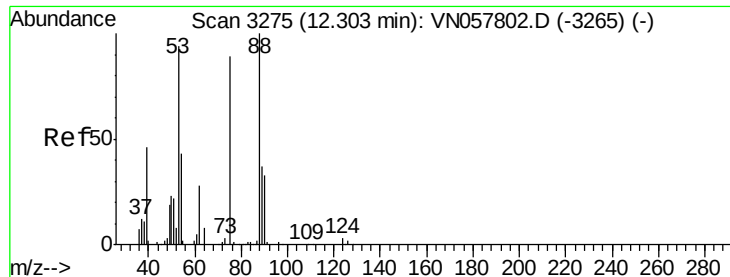
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 102.714 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

Instrument :

MSVOA_N

ClientSampled :

T1-4-(1.5)

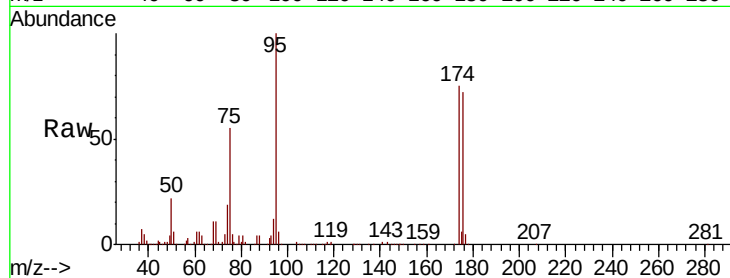
Tgt Ion: 75 Resp: 172985

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

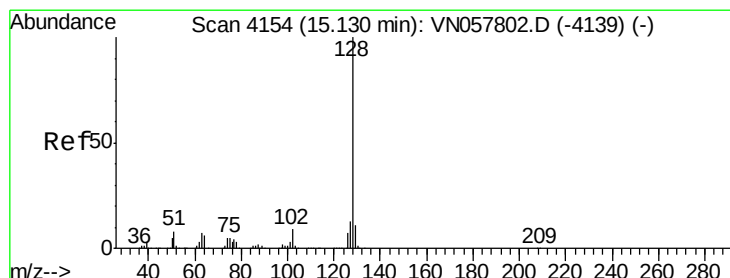
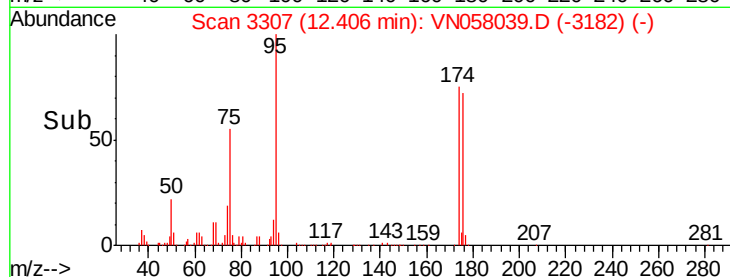
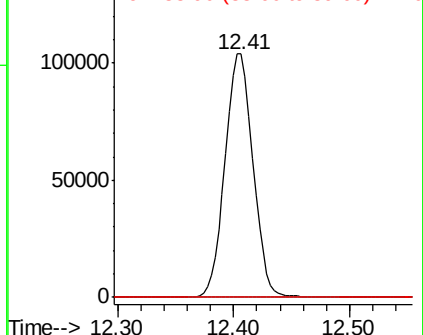
89 0.0 35.3 52.9#



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



#95

Naphthalene

Concen: Below Cal

RT: 15.12 min Scan# 4152

Delta R.T. -0.01 min

Lab File: VN058039.D

Acq: 13 Sep 2019 23:47

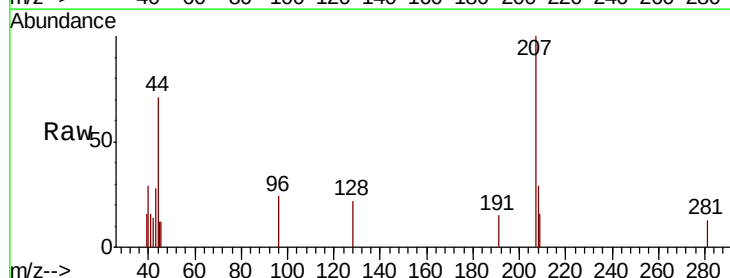
Tgt Ion: 128 Resp: 239

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

