

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057968.D
 Acq On : 12 Sep 2019 14:10
 Operator : JC/SP
 Sample : K4644-22
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D3-(4)

Quant Time: Sep 13 04:45:29 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	280742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	476815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	438516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	225424	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	322920	56.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.58%	
35) Dibromofluoromethane	7.58	113	222779	50.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.24%	
50) Toluene-d8	10.09	98	861309	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
62) 4-Bromofluorobenzene	12.41	95	287811	44.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.40%	

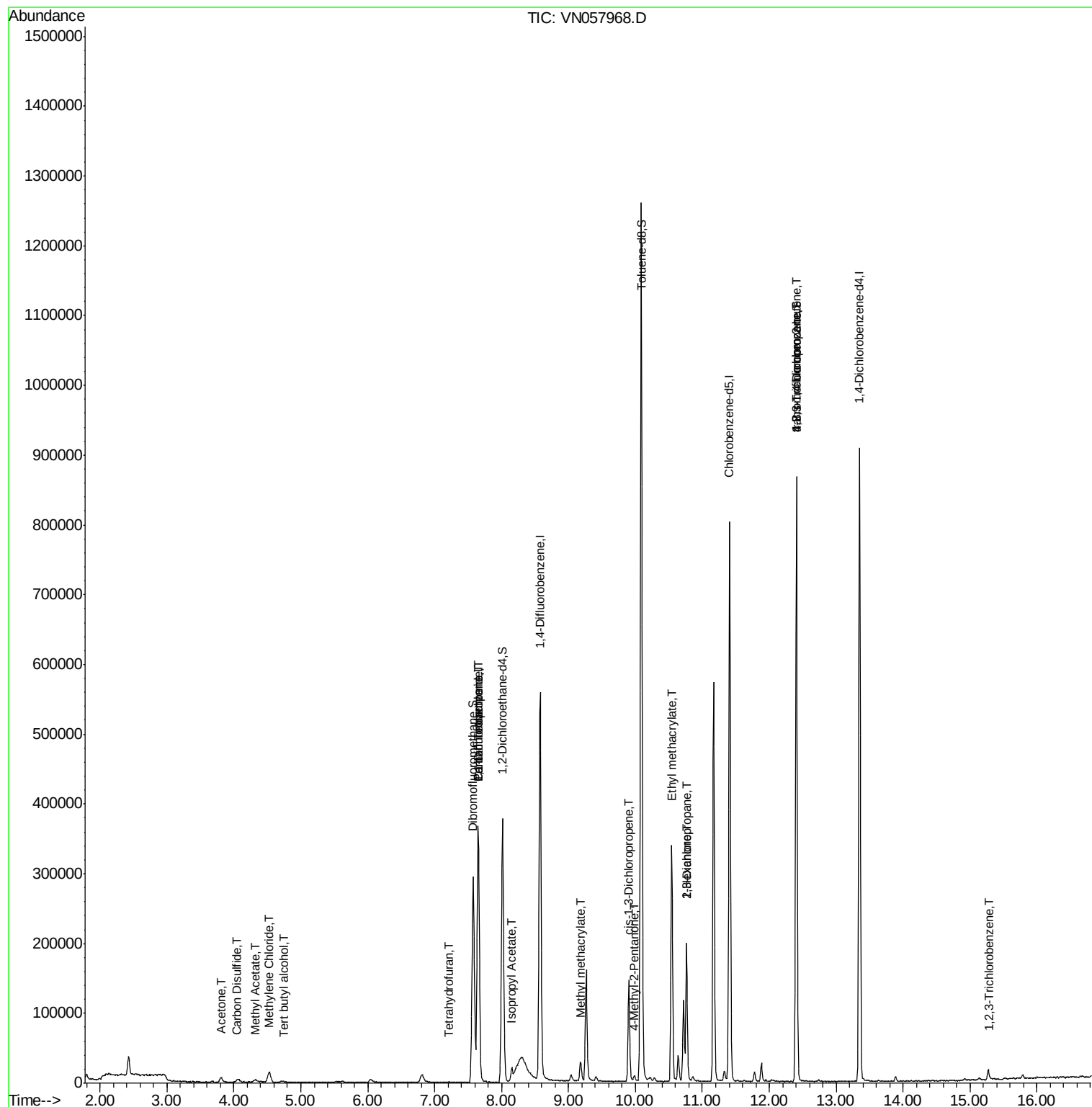
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	115	Below Cal	#	80
11) Tert butyl alcohol	4.75	59	232	0.337	ug/l #	72
16) Acetone	3.80	43	10544	5.657	ug/l	92
17) Carbon Disulfide	4.03	76	283	0.219	ug/l #	75
18) Methyl Acetate	4.32	43	6371	1.282	ug/l #	87
20) Methylene Chloride	4.54	84	10632	1.810	ug/l	94
29) Tetrahydrofuran	7.21	42	528	0.318	ug/l #	56
31) Cyclohexane	7.65	56	8060	Below Cal	#	20
36) 1,1-Dichloropropene	7.65	75	25644	4.637	ug/l #	49
38) Carbon Tetrachloride	7.65	117	29154	5.775	ug/l #	17
43) Isopropyl Acetate	8.16	43	28293	2.945	ug/l #	88
48) Methyl methacrylate	9.17	41	4679	0.960	ug/l #	26
51) 4-Methyl-2-Pentanone	9.98	43	8871	1.560	ug/l #	78
54) cis-1,3-Dichloropropene	9.90	75	25062	3.688	ug/l #	73
56) Ethyl methacrylate	10.55	69	1789	0.267	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	1989	0.260	ug/l #	43
59) 2-Hexanone	10.76	43	33292	7.812	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	159344	31.247	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159344	109.959	ug/l #	6
95) Naphthalene	15.13	128	2477	Below Cal	#	86
96) 1,2,3-Trichlorobenzene	15.30	180	754	1.160	ug/l #	62

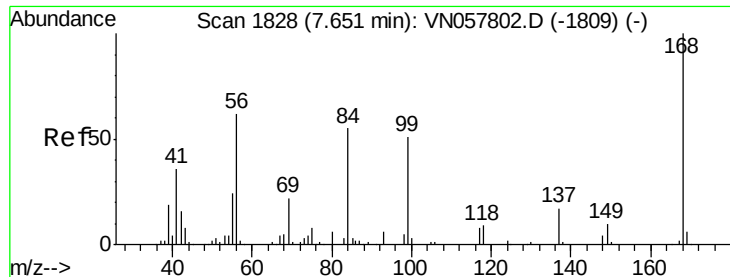
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057968.D

Acq: 12 Sep 2019 14:10

Instrument :

MSVOA_N

ClientSampleId :

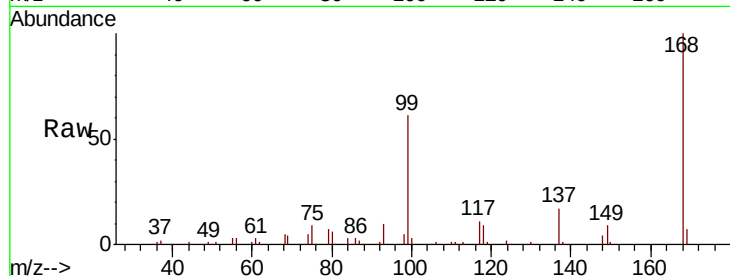
T11-D3-(4)

Tgt Ion:168 Resp: 280742

Ion Ratio Lower Upper

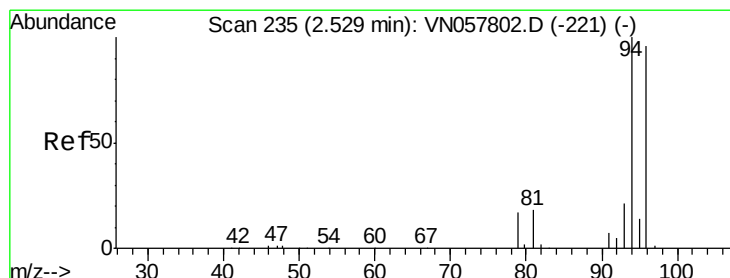
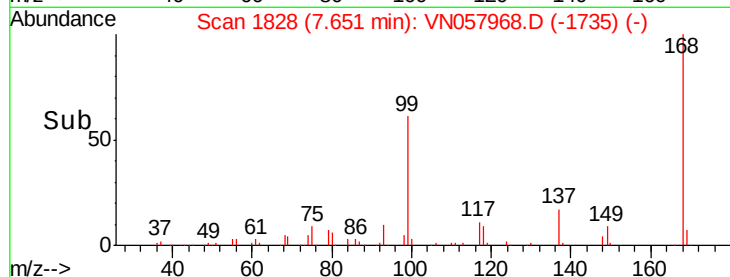
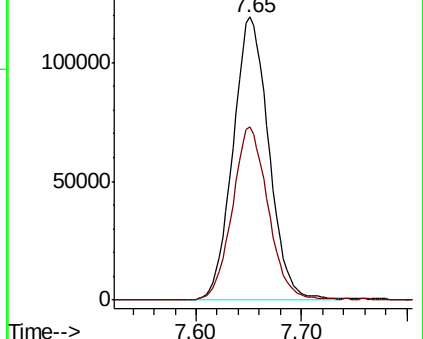
168 100

99 61.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057968.D

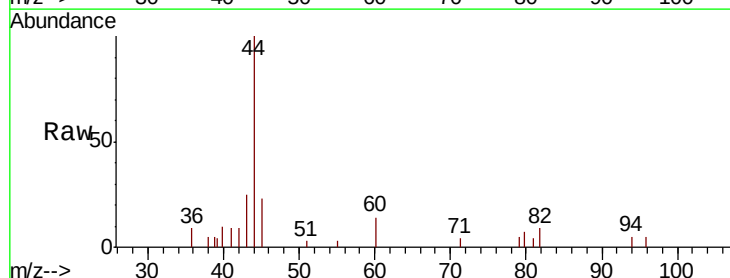
Acq: 12 Sep 2019 14:10

Tgt Ion: 94 Resp: 115

Ion Ratio Lower Upper

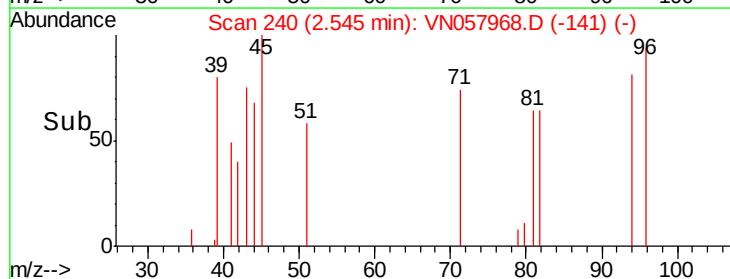
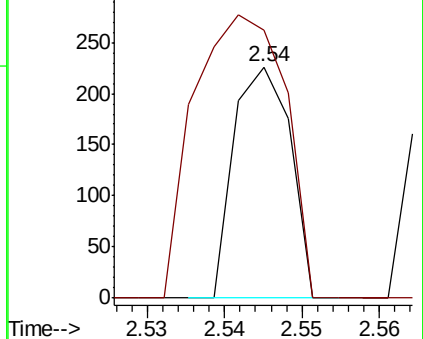
94 100

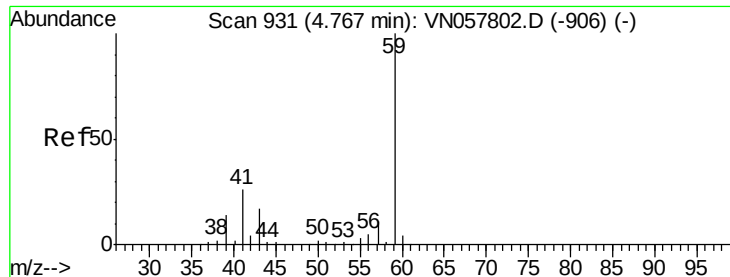
96 115.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

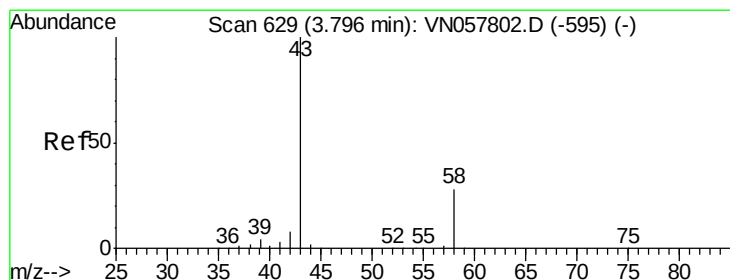
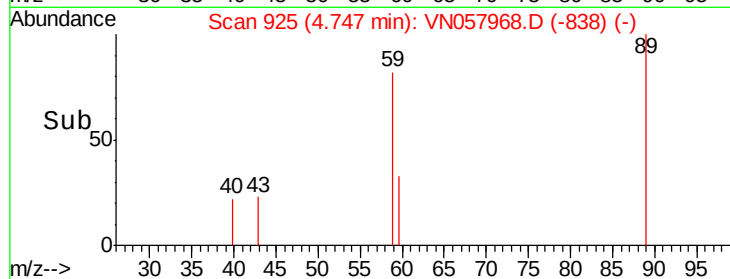
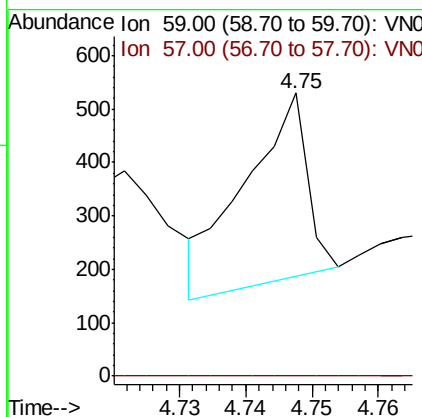
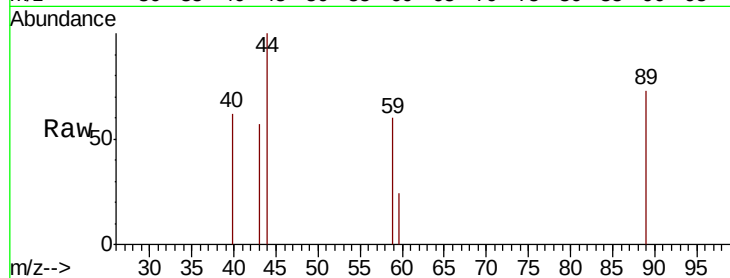




#11
Tert butyl alcohol
Concen: 0.337 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

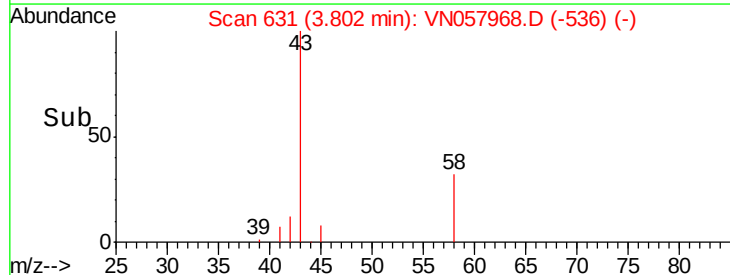
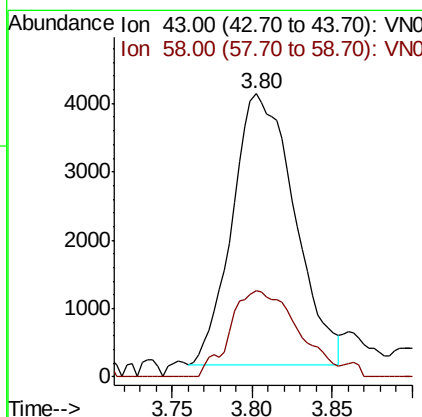
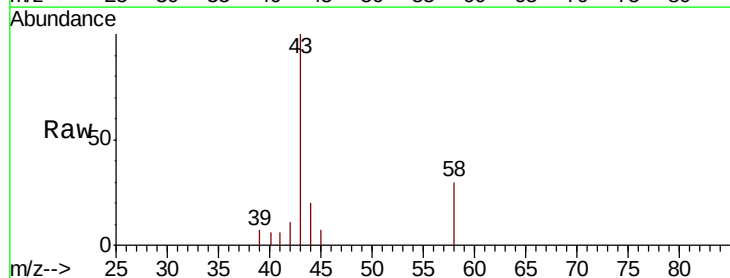
Instrument :
MSVOA_N
ClientSampleId :
T11-D3-(4)

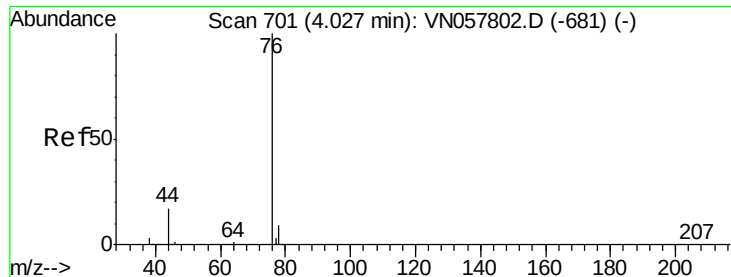
Tgt Ion: 59 Resp: 232
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 5.657 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

Tgt Ion: 43 Resp: 10544
Ion Ratio Lower Upper
43 100
58 31.8 22.2 33.2





#17

Carbon Disulfide

Concen: 0.219 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

Instrument :

MSVOA_N

ClientSampled :

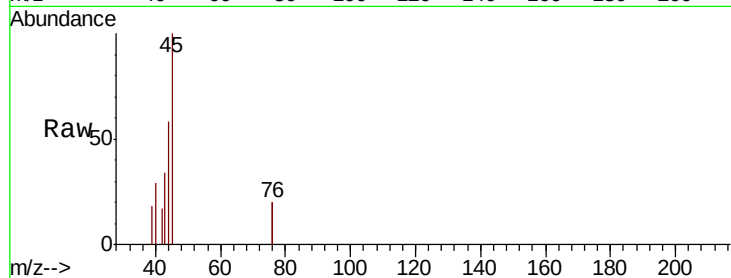
T11-D3-(4)

Tgt Ion: 76 Resp: 283

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

400

300

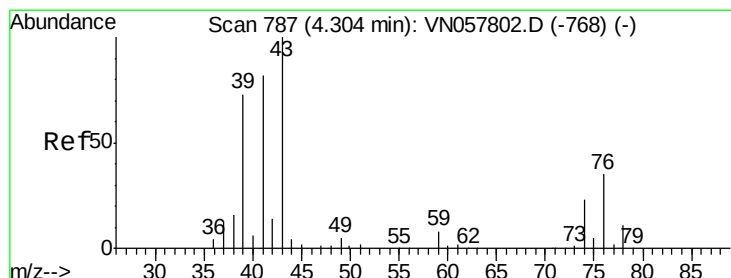
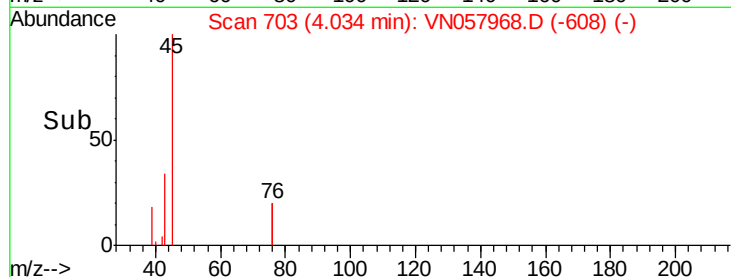
200

100

0

4.01 4.02 4.03 4.04 4.05

Time-->



#18

Methyl Acetate

Concen: 1.282 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.02 min

Lab File: VN057968.D

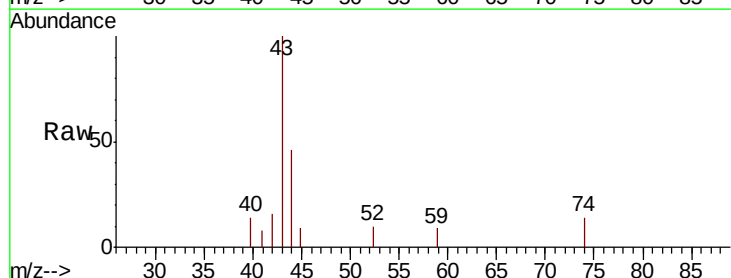
Acq: 12 Sep 2019 14:10

Tgt Ion: 43 Resp: 6371

Ion Ratio Lower Upper

43 100

74 16.3 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

2500

2000

1500

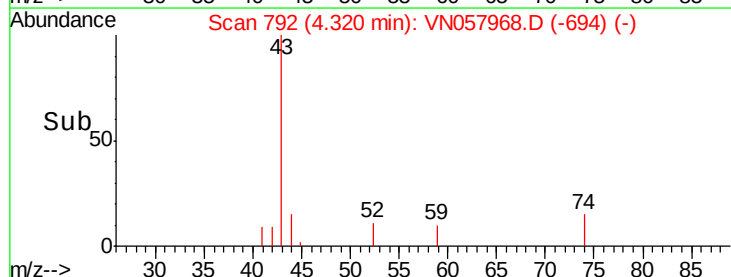
1000

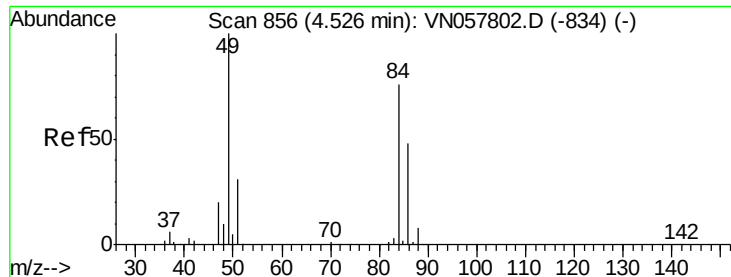
500

0

4.25 4.30 4.35 4.40

Time-->

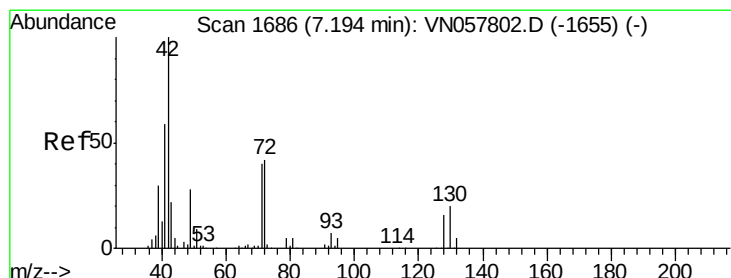
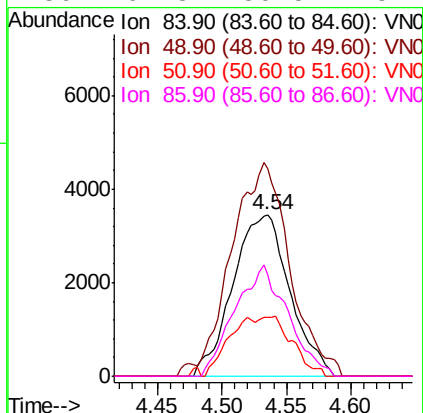
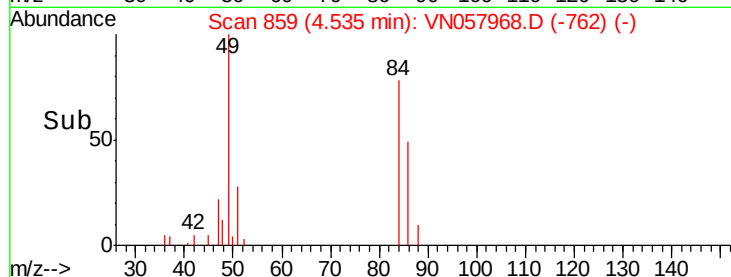
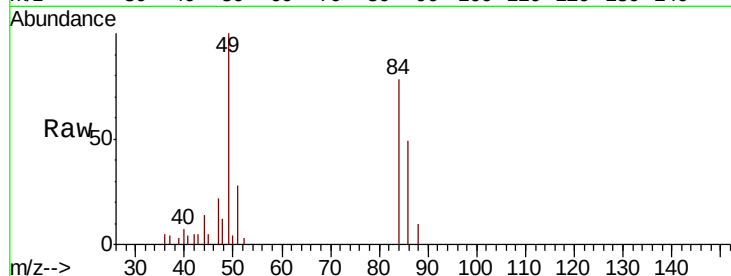




#20
Methylene Chloride
Concen: 1.810 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

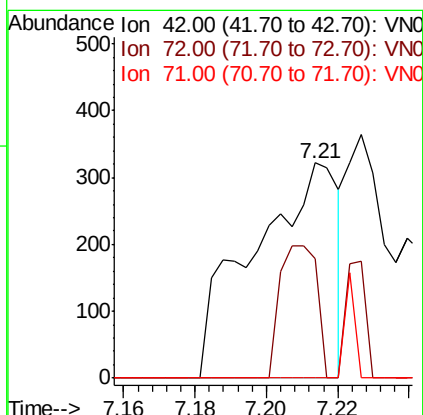
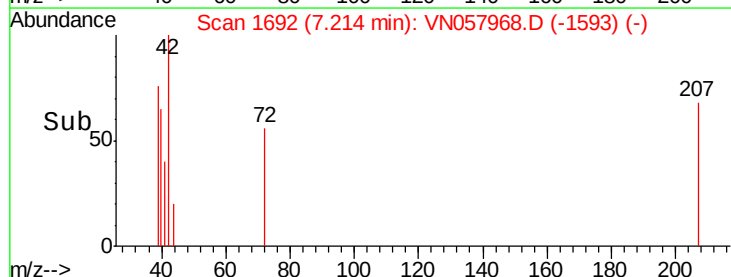
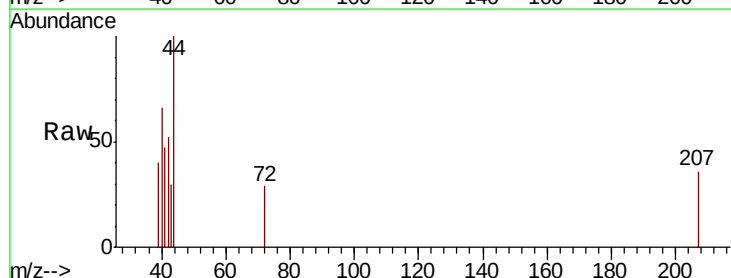
Instrument :
MSVOA_N
ClientSampled :
T11-D3-(4)

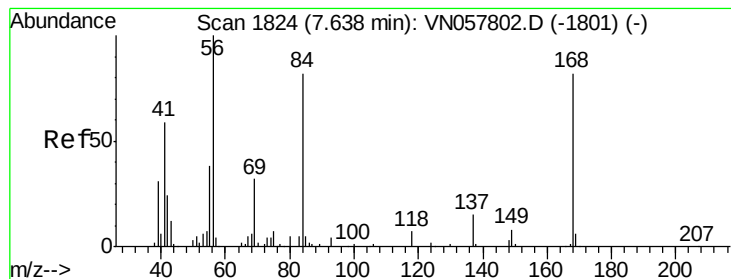
Tgt Ion:	84	Resp:	10632
Ion	Ratio	Lower	Upper
84	100		
49	121.6	104.8	157.2
51	36.3	33.0	49.4
86	62.8	50.5	75.7



#29
Tetrahydrofuran
Concen: 0.318 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.02 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

Tgt Ion:	42	Resp:	528
Ion	Ratio	Lower	Upper
42	100		
72	26.9	33.7	50.5#
71	0.0	31.9	47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

Instrument :

MSVOA_N

ClientSampled :

T11-D3-(4)

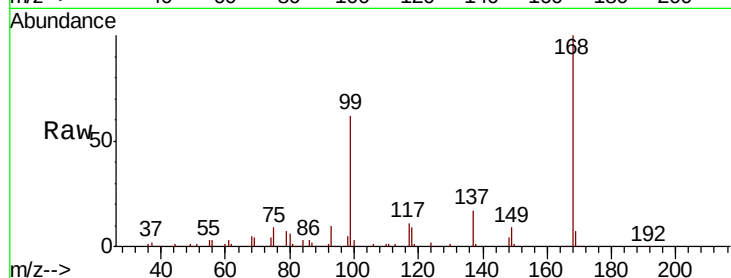
Tgt Ion: 56 Resp: 8060

Ion Ratio Lower Upper

56 100

69 150.5 25.9 38.9#

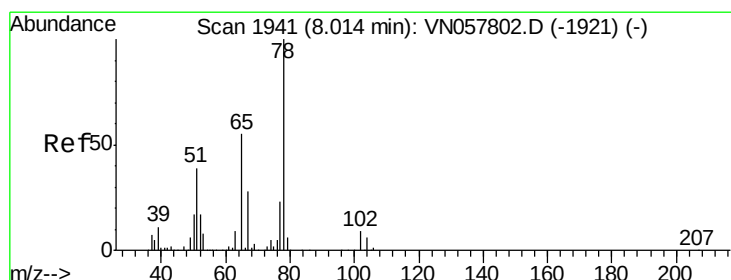
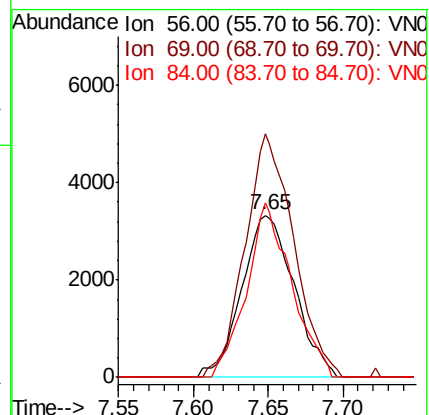
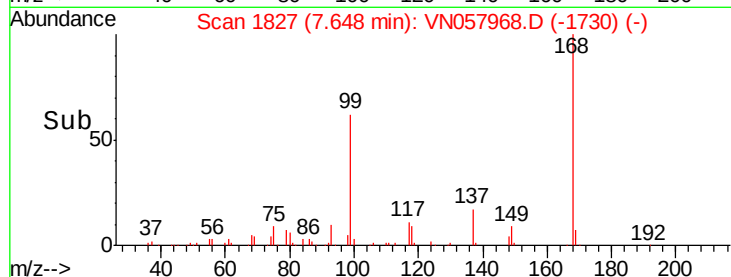
84 107.5 65.6 98.4#



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: 56.790 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057968.D

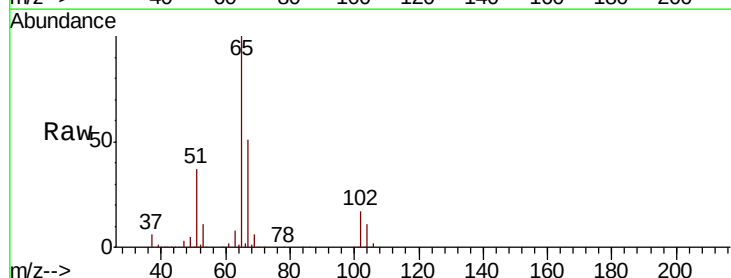
Acq: 12 Sep 2019 14:10

Tgt Ion: 65 Resp: 322920

Ion Ratio Lower Upper

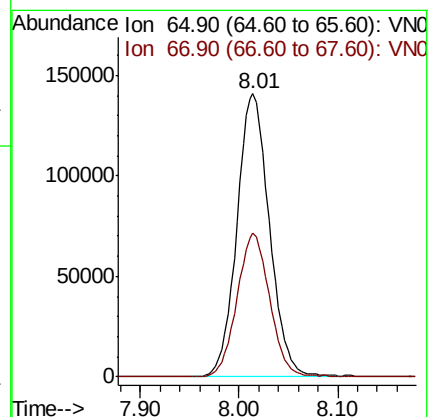
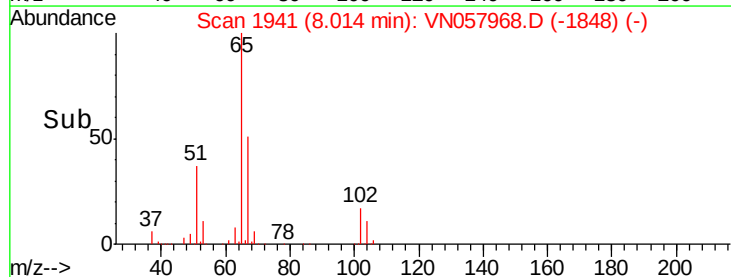
65 100

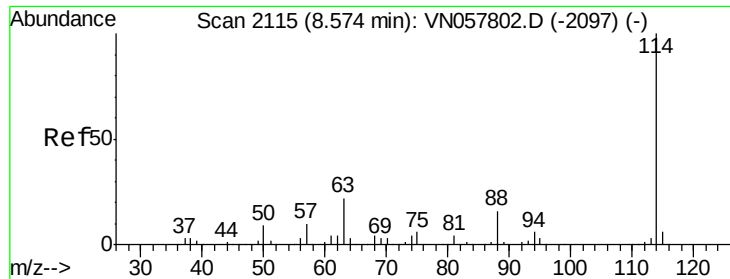
67 51.0 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

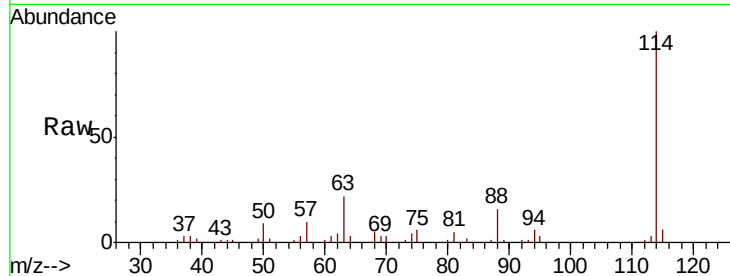




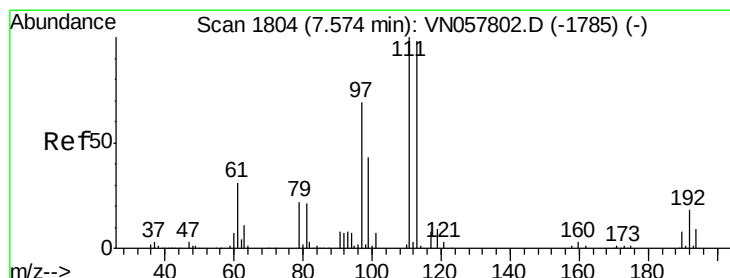
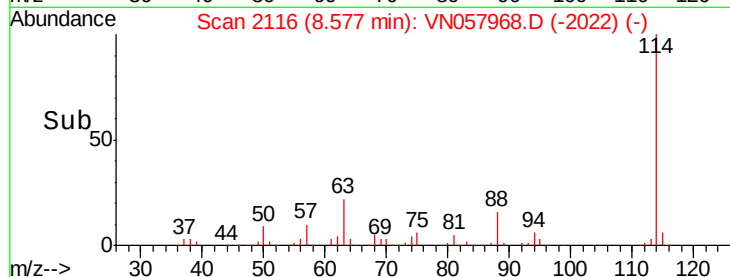
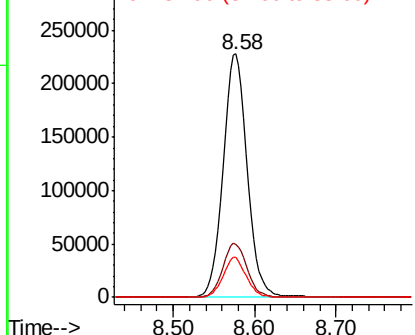
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

Instrument :
MSVOA_N
ClientSampleId :
T11-D3-(4)

Tgt Ion:114 Resp: 476815
Ion Ratio Lower Upper
114 100
63 21.9 0.0 44.0
88 16.3 0.0 31.4

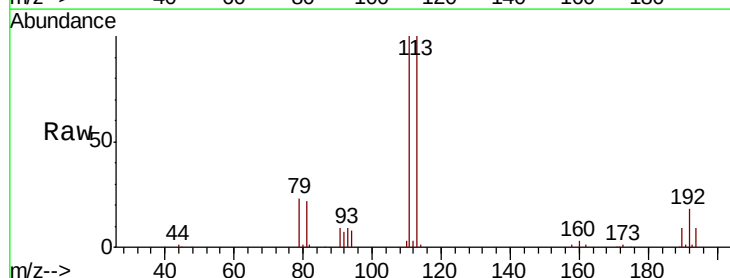


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

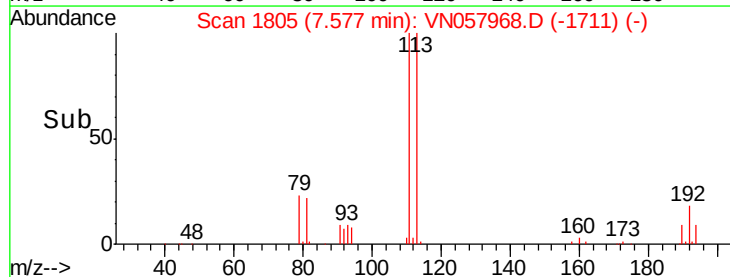
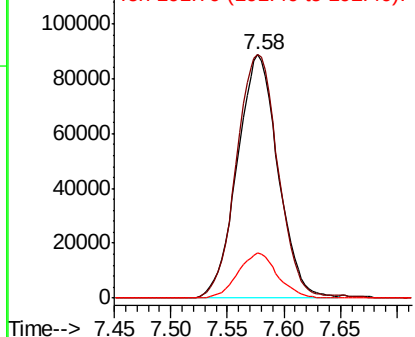


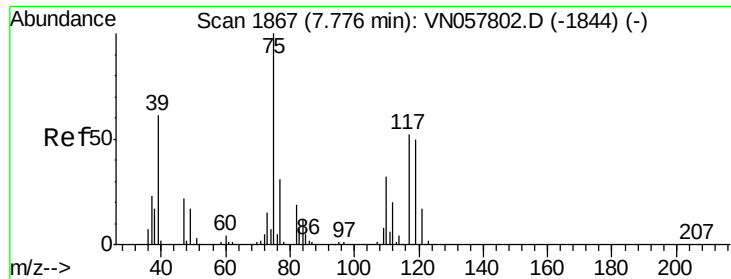
#35
Dibromofluoromethane
Concen: 50.622 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

Tgt Ion:113 Resp: 222779
Ion Ratio Lower Upper
113 100
111 101.6 81.3 121.9
192 18.0 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

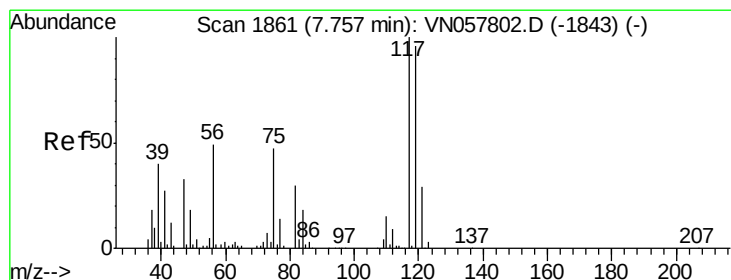
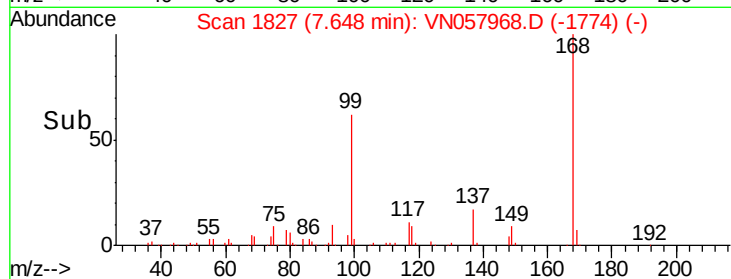
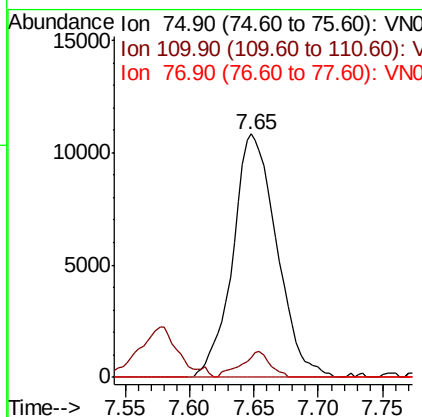
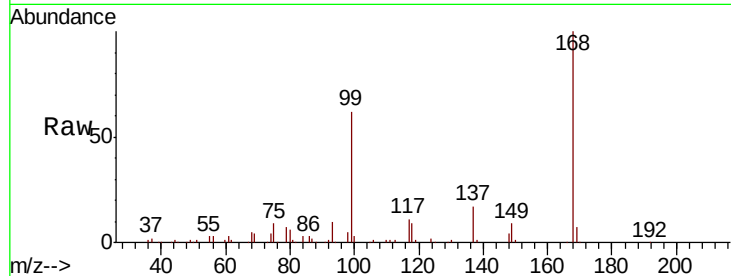




#36
 1,1-Dichloropropene
 Concen: 4.637 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057968.D
 Acq: 12 Sep 2019 14:10

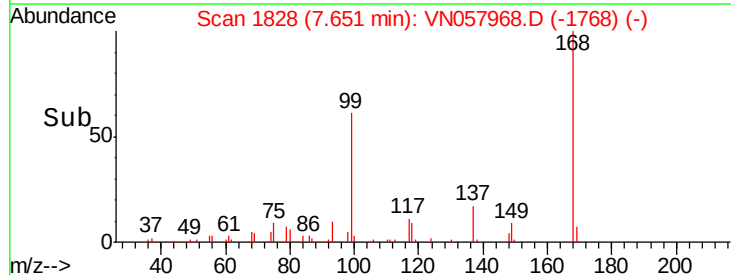
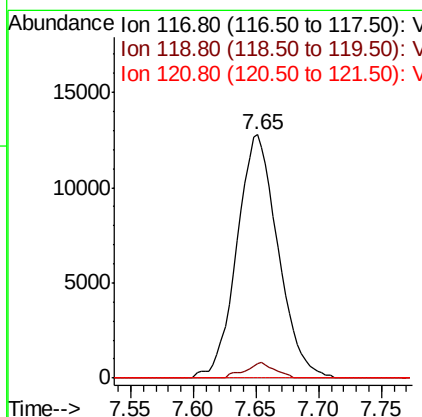
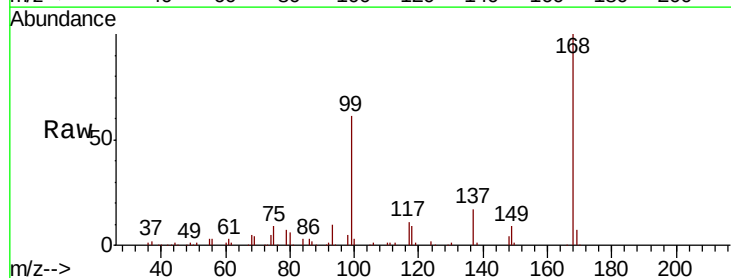
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D3-(4)

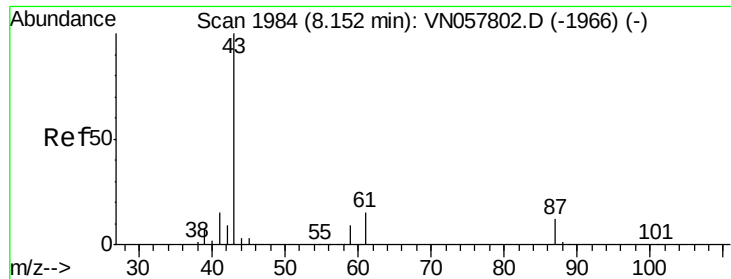
Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.9	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.775 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057968.D
 Acq: 12 Sep 2019 14:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.9	115.3#
121	0.0	23.4	35.2#

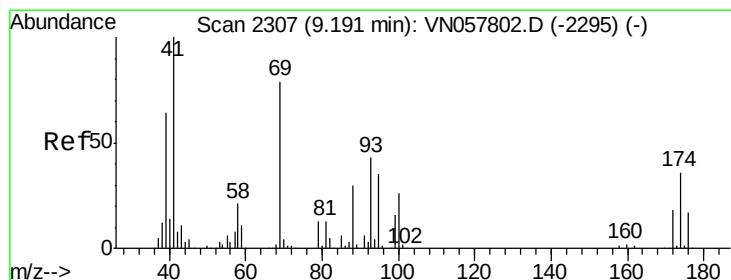
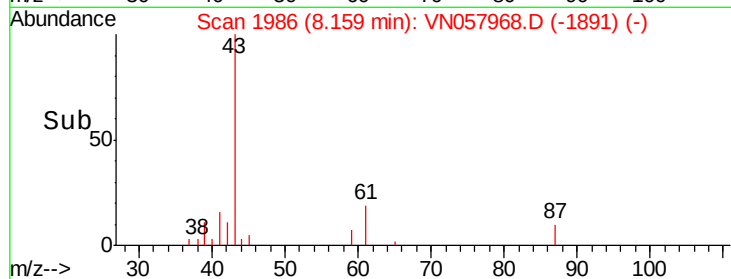
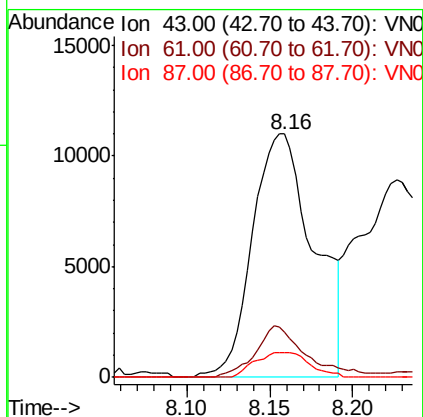
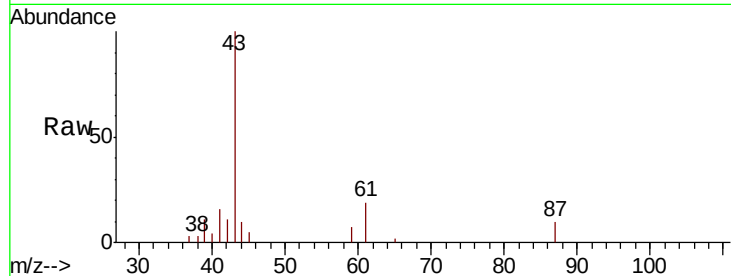




#43
Isopropyl Acetate
Concen: 2.945 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. 0.01 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

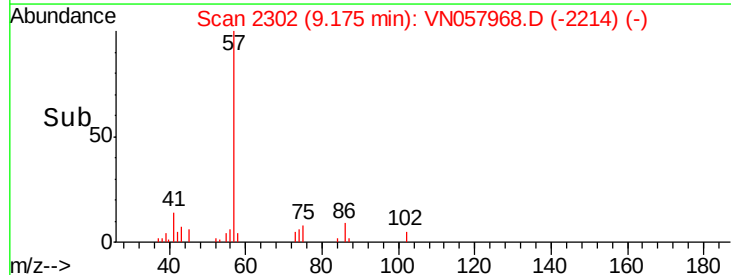
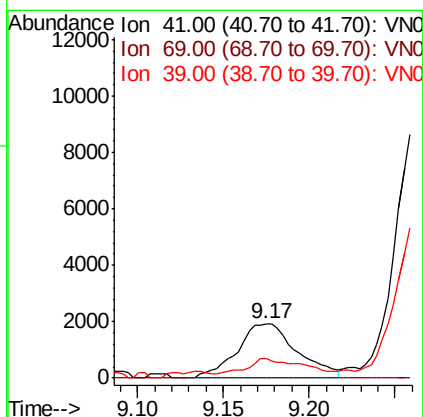
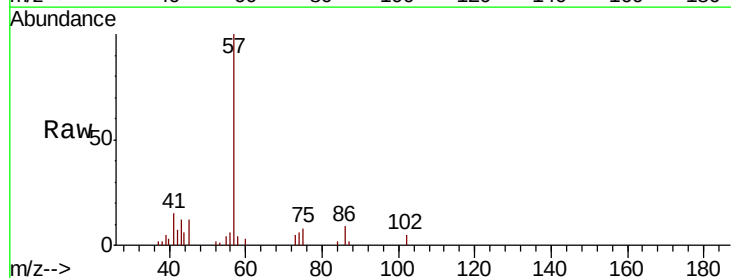
Instrument :
MSVOA_N
ClientSampled :
T11-D3-(4)

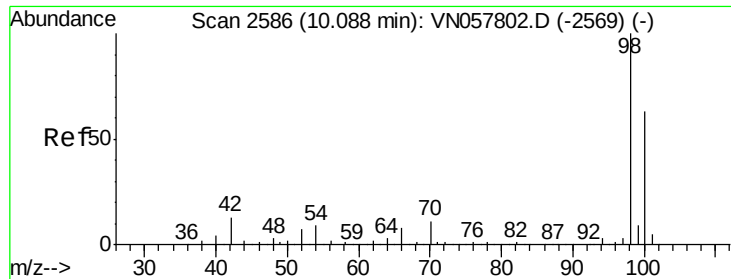
Tgt Ion: 43 Resp: 28293
Ion Ratio Lower Upper
43 100
61 17.9 20.1 30.1#
87 9.1 9.5 14.3#



#48
Methyl methacrylate
Concen: 0.960 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

Tgt Ion: 41 Resp: 4679
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 22.5 52.7 79.1#

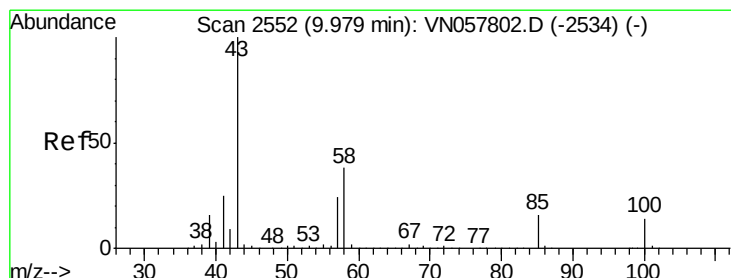
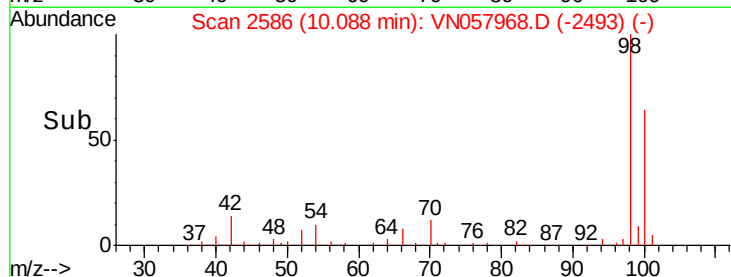
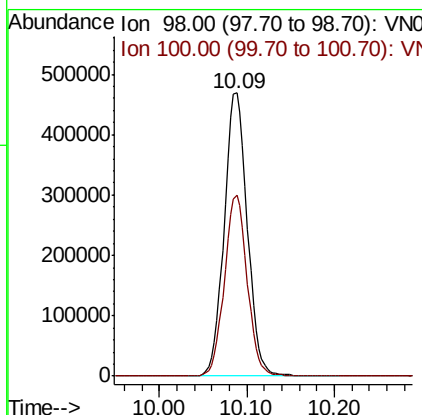
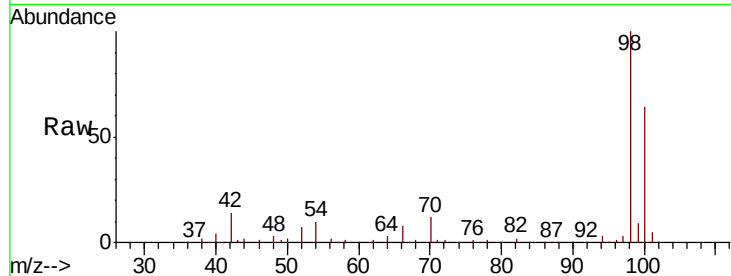




#50
Toluene-d8
Concen: 50.409 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

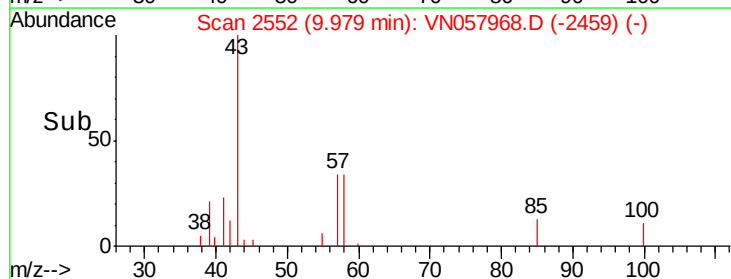
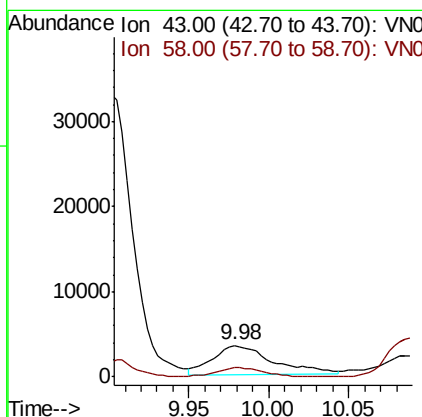
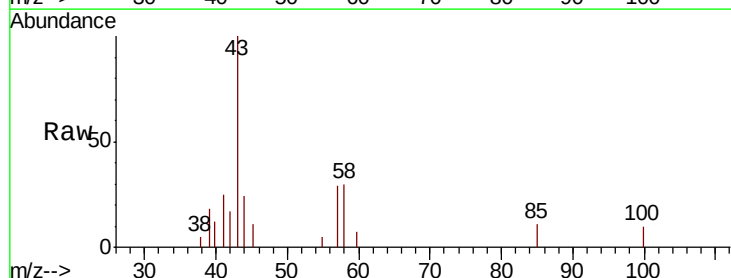
Instrument :
MSVOA_N
ClientSampled :
T11-D3-(4)

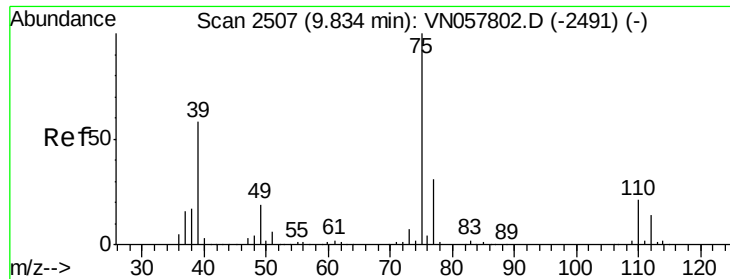
Tgt Ion: 98 Resp: 861309
Ion Ratio Lower Upper
98 100
100 62.9 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 1.560 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057968.D
Acq: 12 Sep 2019 14:10

Tgt Ion: 43 Resp: 8871
Ion Ratio Lower Upper
43 100
58 23.9 29.8 44.6#





#54

cis-1,3-Dichloropropene

Concen: 3.688 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

Instrument :

MSVOA_N

ClientSampleId :

T11-D3-(4)

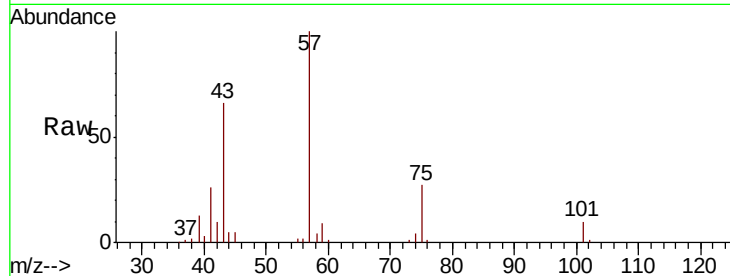
Tgt Ion: 75 Resp: 25062

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

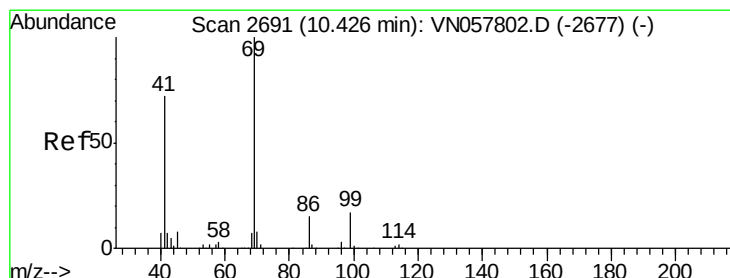
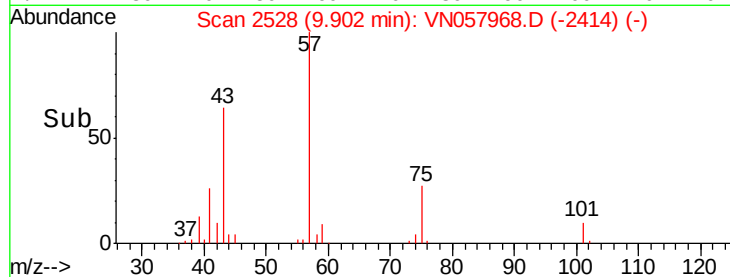
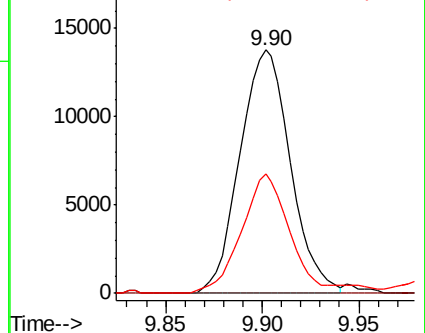
39 49.1 46.2 69.4



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: 0.267 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

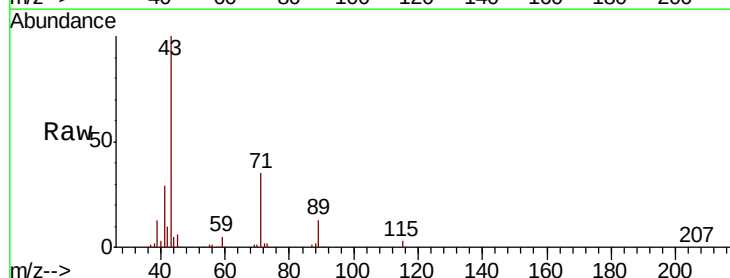
Tgt Ion: 69 Resp: 1789

Ion Ratio Lower Upper

69 100

41 3988.3 56.7 85.1#

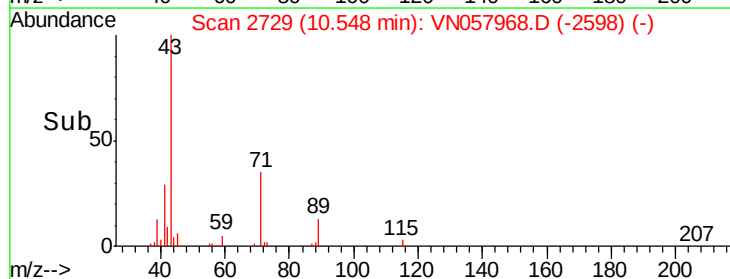
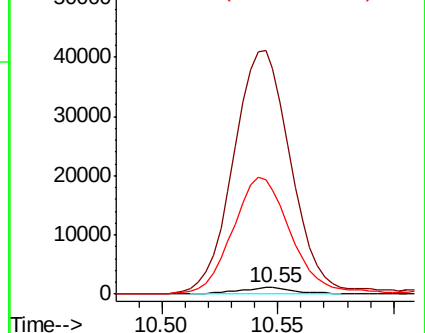
39 1928.8 36.3 54.5#

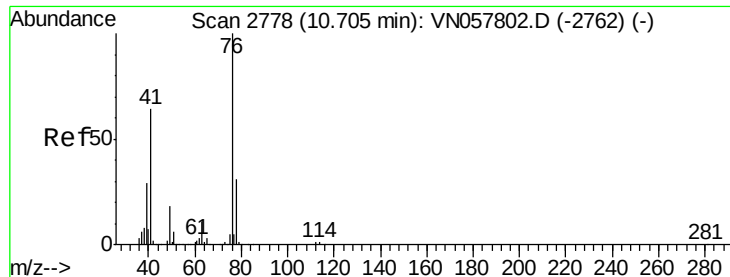


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.260 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

Instrument :

MSVOA_N

ClientSampled :

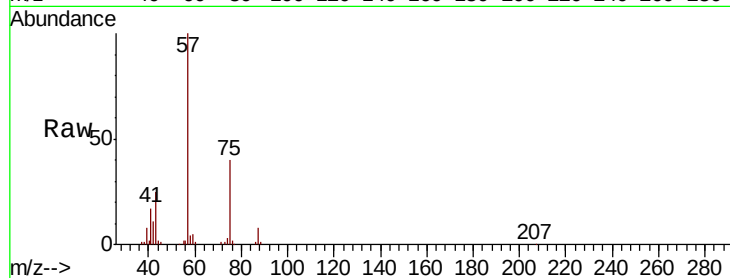
T11-D3-(4)

Tgt Ion: 76 Resp: 1989

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

10.76

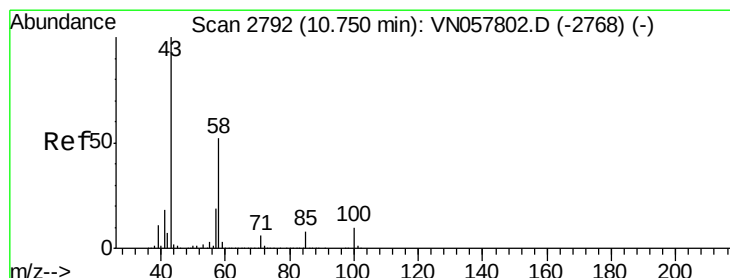
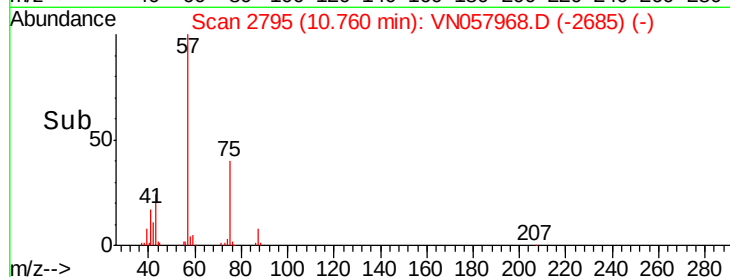
1500

1000

500

0

Time-->



#59

2-Hexanone

Concen: 7.812 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057968.D

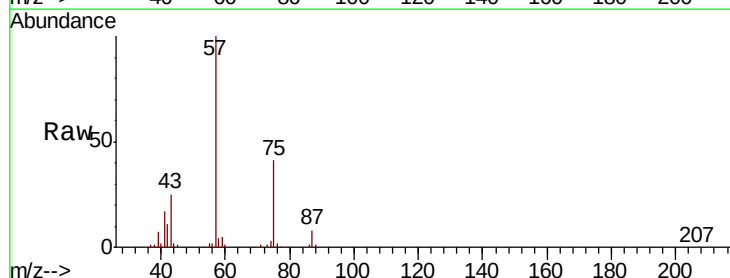
Acq: 12 Sep 2019 14:10

Tgt Ion: 43 Resp: 33292

Ion Ratio Lower Upper

43 100

58 17.4 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

60000

50000

40000

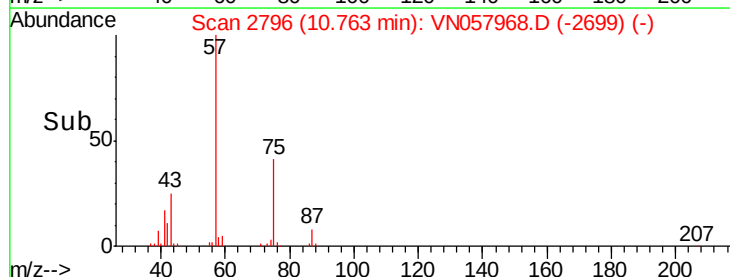
30000

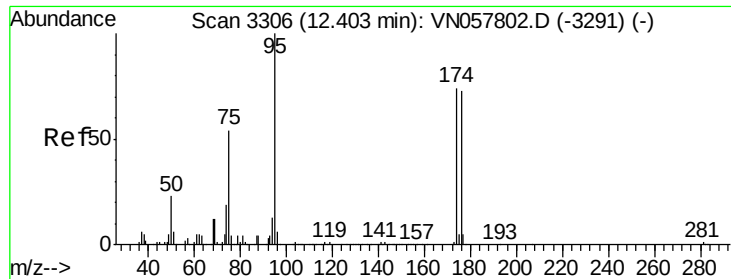
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 44.201 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

Instrument :

MSVOA_N

ClientSampled :

T11-D3-(4)

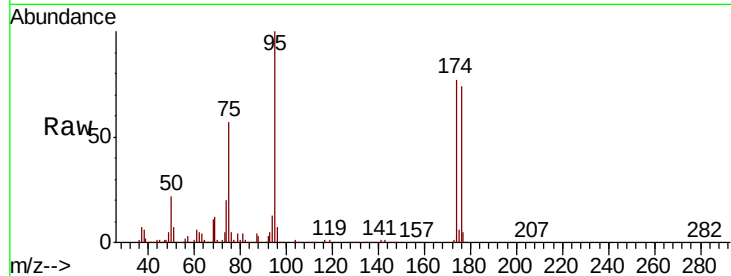
Tgt Ion: 95 Resp: 287811

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.2

176 72.5 0.0 146.0

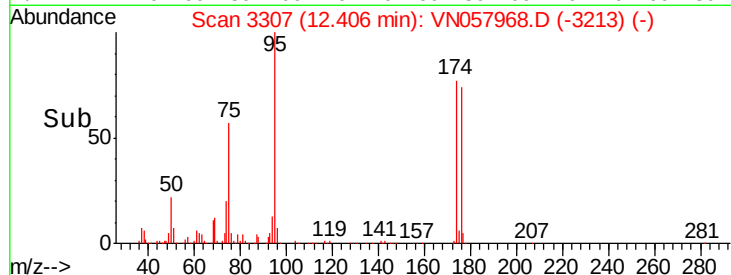


Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

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

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

Time-->

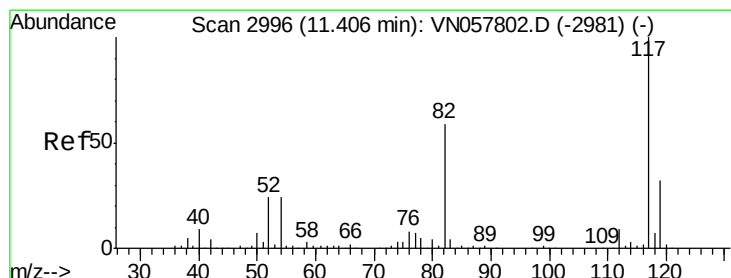


Abundance Ion 94.90 (94.60 to 95.60): VN057968.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN057968.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN057968.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

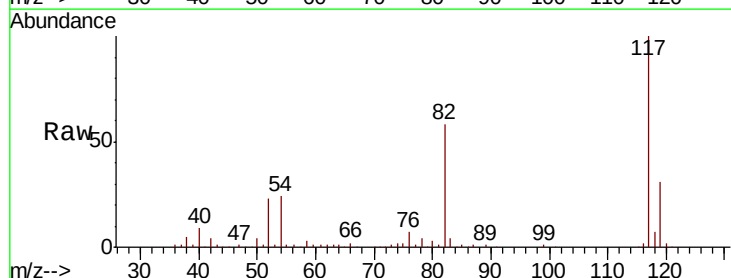
Tgt Ion: 117 Resp: 438516

Ion Ratio Lower Upper

117 100

82 57.9 47.2 70.8

119 31.2 25.3 37.9

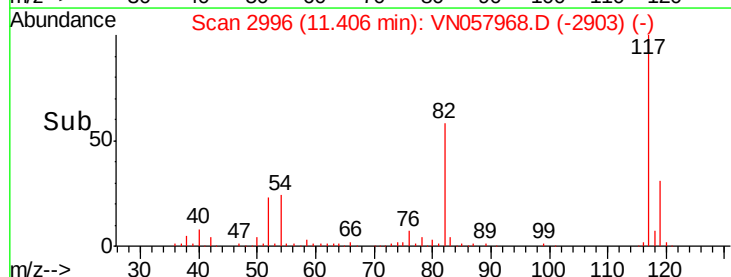


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

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

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

Time-->

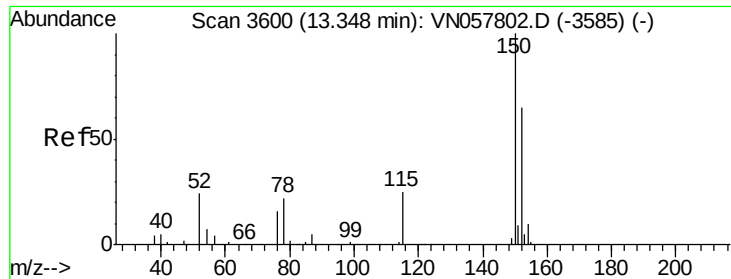


Abundance Ion 116.90 (116.60 to 117.60): VN057968.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057968.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057968.D (-2903) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057968.D

Acq: 12 Sep 2019 14:10

Instrument :

MSVOA_N

ClientSampleId :

T11-D3-(4)

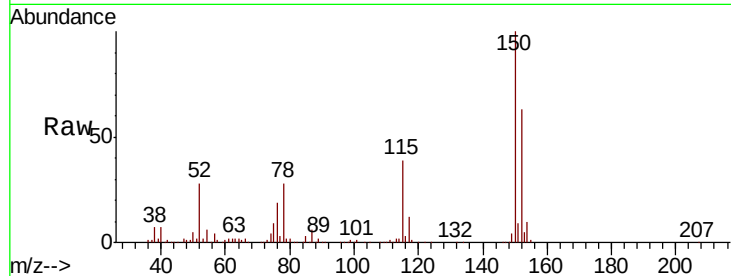
Tgt Ion: 152 Resp: 225424

Ion Ratio Lower Upper

152 100

115 60.9 30.3 91.0

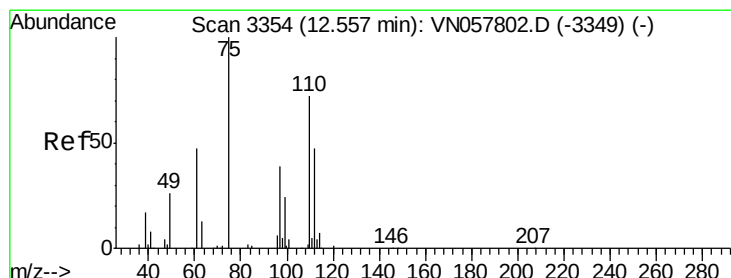
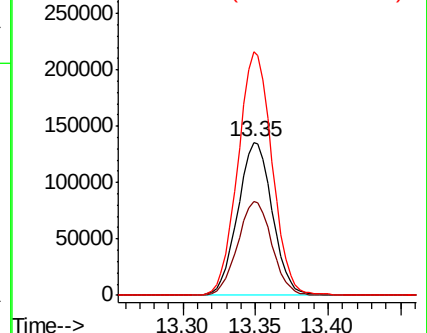
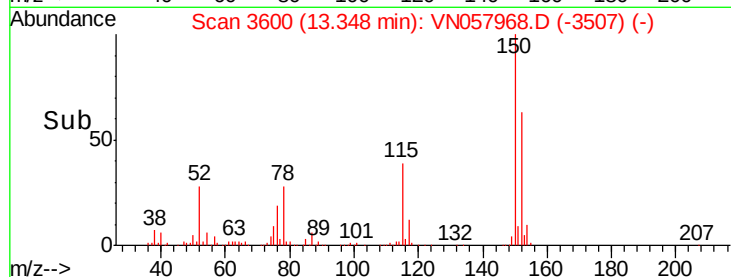
150 157.2 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 31.247 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057968.D

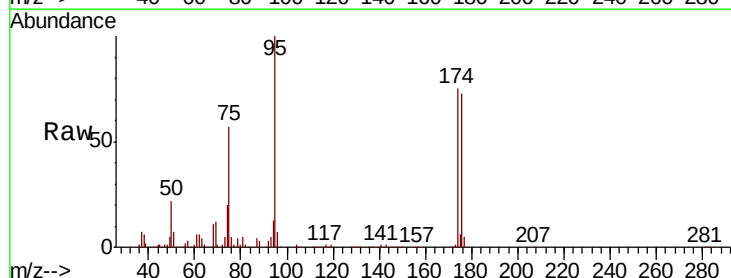
Acq: 12 Sep 2019 14:10

Tgt Ion: 75 Resp: 159344

Ion Ratio Lower Upper

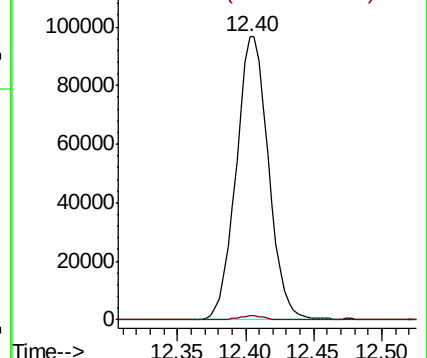
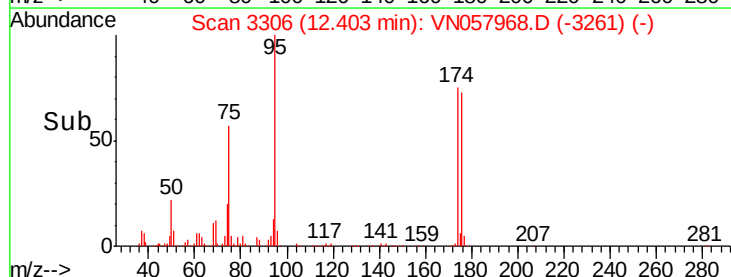
75 100

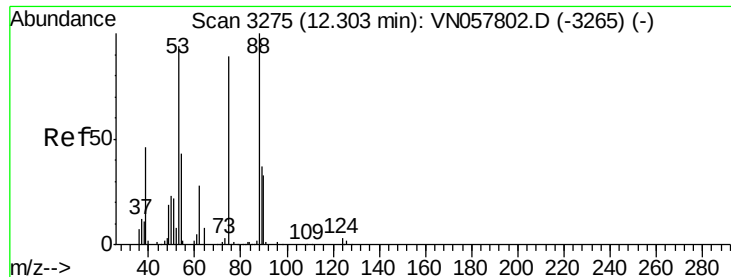
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

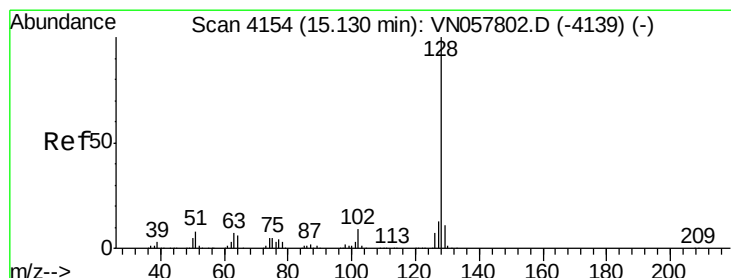
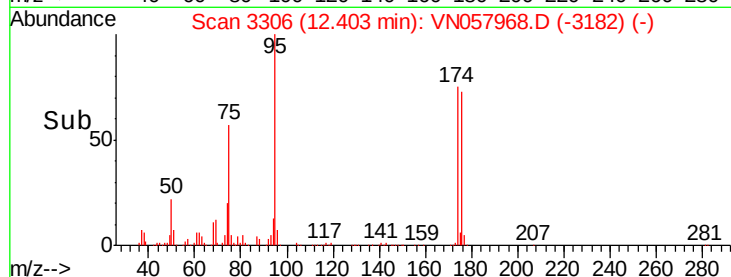
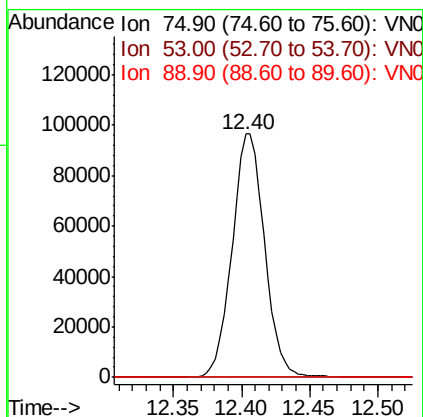
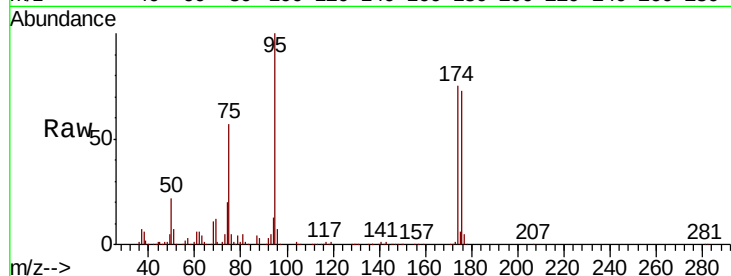




#81
 trans-1,4-Dichloro-2-butene
 Concen: 109.959 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057968.D
 Acq: 12 Sep 2019 14:10

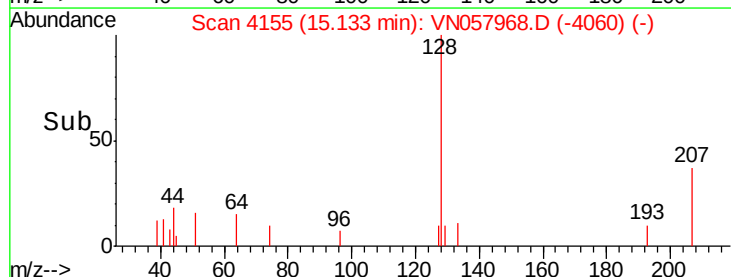
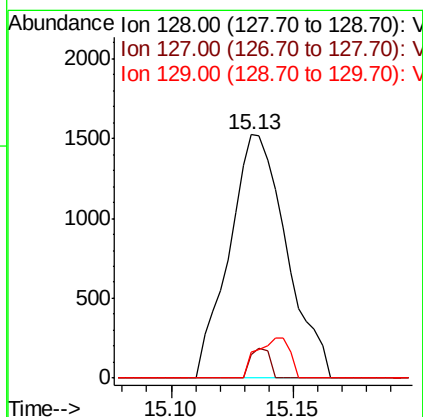
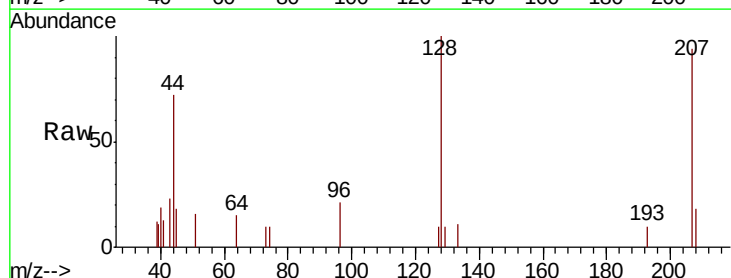
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D3-(4)

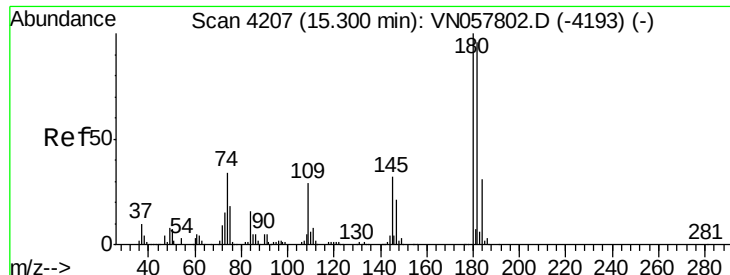
Tgt Ion: 75 Resp: 159344
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN057968.D
 Acq: 12 Sep 2019 14:10

Tgt Ion: 128 Resp: 2477
 Ion Ratio Lower Upper
 128 100
 127 4.0 10.3 15.5#
 129 9.3 8.6 12.8

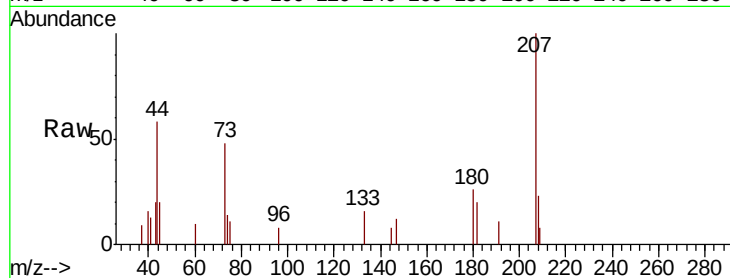




#96
 1,2,3-Trichlorobenzene
 Concen: 1.160 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN057968.D
 Acq: 12 Sep 2019 14:10

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-D3-(4)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	63.4	48.3	144.8
145	4.0	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

