

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058767.D
 Acq On : 14 Oct 2019 22:26
 Operator : JC/SP
 Sample : K5331-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 15 03:17:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	395340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	658095	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	593674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245168	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	303921	54.91	ug/l	0.00
Spiked Amount			Recovery	=	109.82%	
35) Dibromofluoromethane	7.57	113	212214	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
50) Toluene-d8	10.08	98	791930	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	12.41	95	266221	43.27	ug/l	0.00
Spiked Amount			Recovery	=	86.54%	

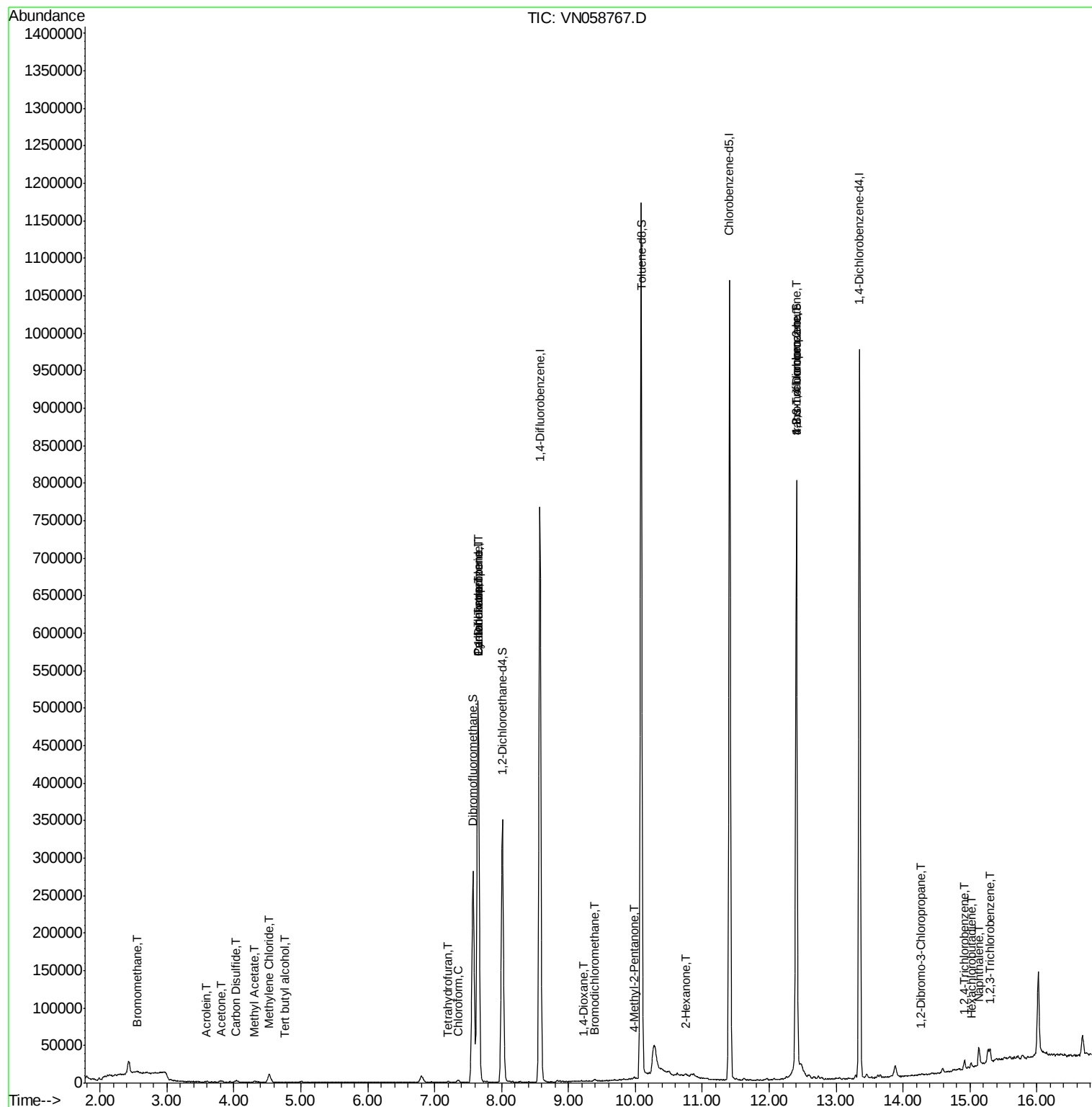
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	1224	0.345	ug/l #	50
11) Tert butyl alcohol	4.76	59	279	0.311	ug/l #	72
13) Acrolein	3.58	56	383	0.531	ug/l #	78
16) Acetone	3.81	43	3690	1.610	ug/l #	86
17) Carbon Disulfide	4.03	76	4792	0.395	ug/l #	75
18) Methyl Acetate	4.31	43	1963	0.338	ug/l #	61
20) Methylene Chloride	4.53	84	7940	1.658	ug/l	96
29) Tetrahydrofuran	7.21	42	787	0.368	ug/l #	53
30) Chloroform	7.36	83	3014	0.354	ug/l #	81
31) Cyclohexane	7.65	56	9817	1.209	ug/l #	8
36) 1,1-Dichloropropene	7.65	75	33172	4.985	ug/l #	50
38) Carbon Tetrachloride	7.65	117	39904	6.153	ug/l #	17
47) Bromodichloromethane	9.40	83	1670	0.253	ug/l #	82
49) 1,4-Dioxane	9.21	88	100	1.244	ug/l #	46
51) 4-Methyl-2-Pentanone	9.98	43	1413	0.219	ug/l #	79
59) 2-Hexanone	10.76	43	2362	0.475	ug/l	79
76) 1,2,3-Trichloropropane	12.41	75	145153	26.988	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	145153	72.293	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	842	0.616	ug/l #	29
93) 1,2,4-Trichlorobenzene	14.92	180	3793	0.801	ug/l	93
94) Hexachlorobutadiene	15.01	225	773	0.310	ug/l	92
95) Naphthalene	15.13	128	17694	1.300	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	5240	1.133	ug/l	93

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

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

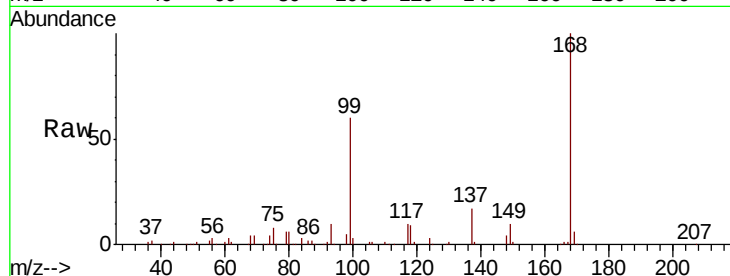
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 395340

Ion Ratio Lower Upper

168 100

99 60.3 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

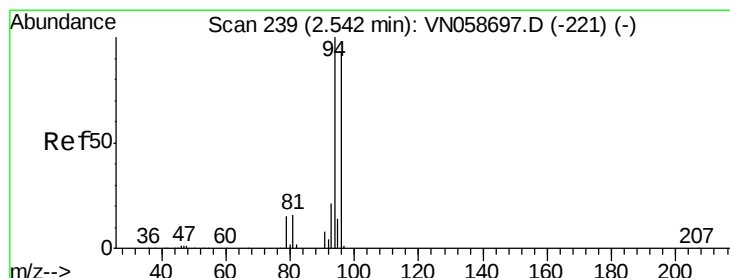
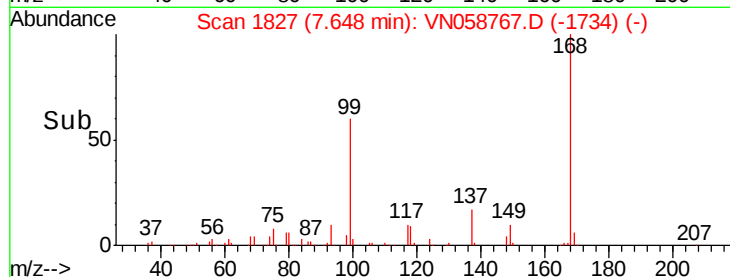
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.345 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058767.D

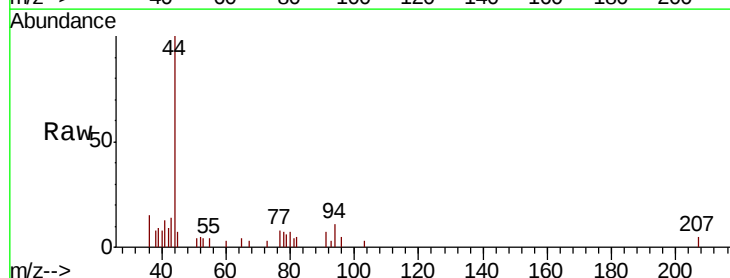
Acq: 14 Oct 2019 22:26

Tgt Ion: 94 Resp: 1224

Ion Ratio Lower Upper

94 100

96 45.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.55

600

500

400

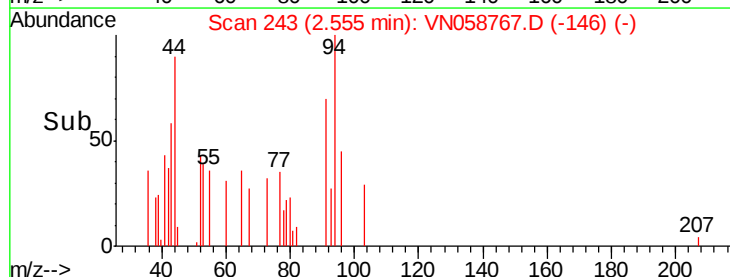
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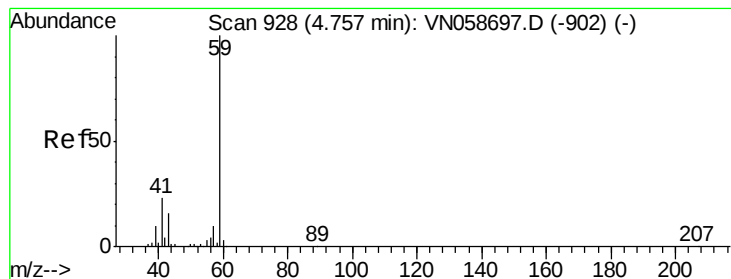
200

100

0

Time--> 2.50 2.55 2.60



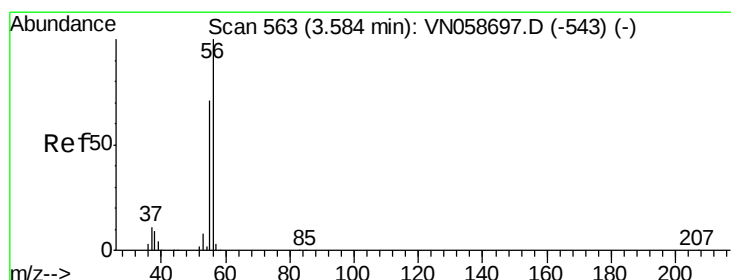
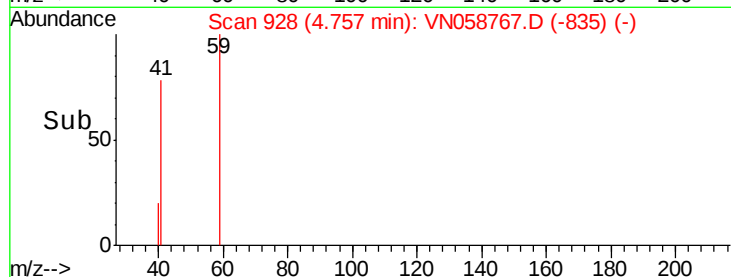
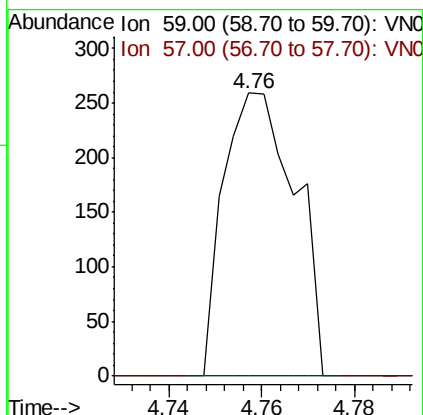
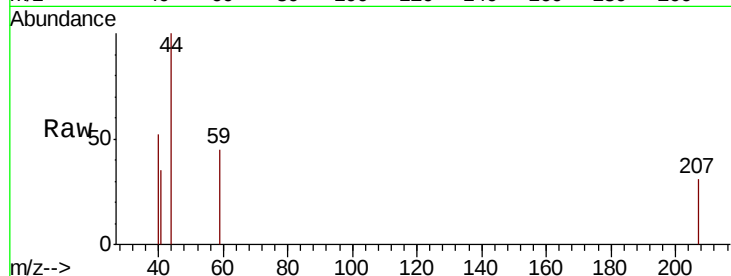


#11

Tert butyl alcohol
Concen: 0.311 ug/l
RT: 4.76 min Scan# 928
Delta R.T. -0.00 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Instrument :
MSVOA_N
ClientSampleId :

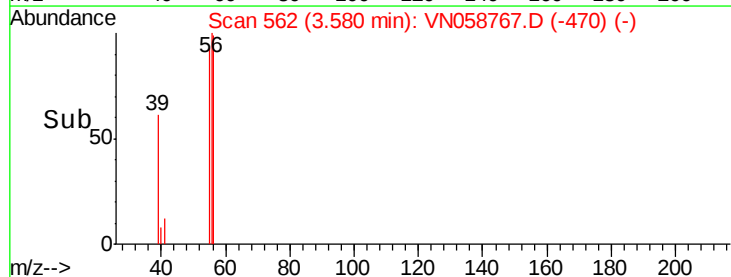
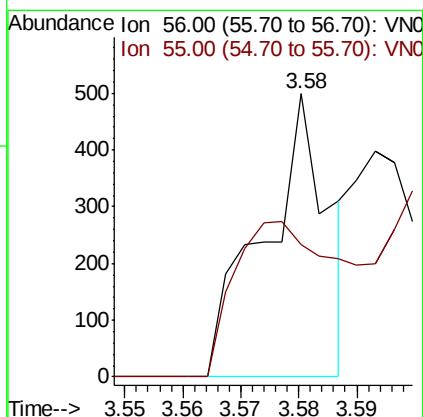
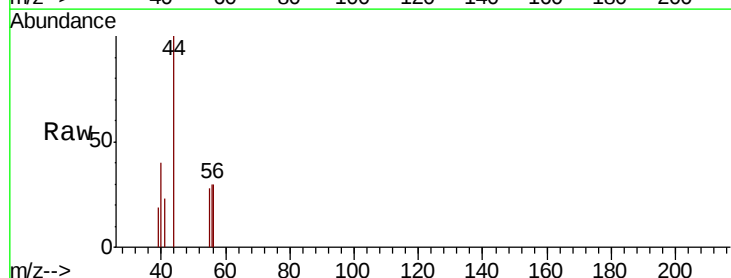
Tot Ion: 59 Resp: 279
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

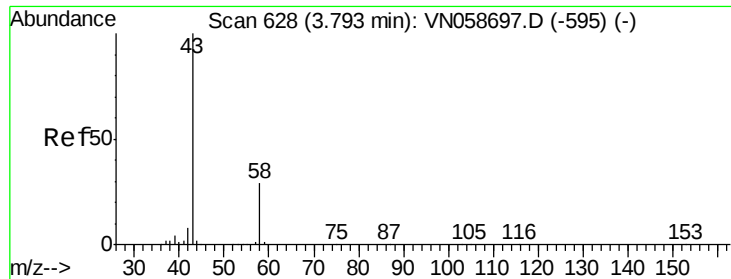


#13

Acrolein
Concen: 0.531 ug/l
RT: 3.58 min Scan# 562
Delta R.T. -0.00 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Tgt Ion: 56 Resp: 383
Ion Ratio Lower Upper
56 100
55 89.3 56.7 85.1#





#16

Acetone

Concen: 1.610 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

Instrument :

MSVOA_N

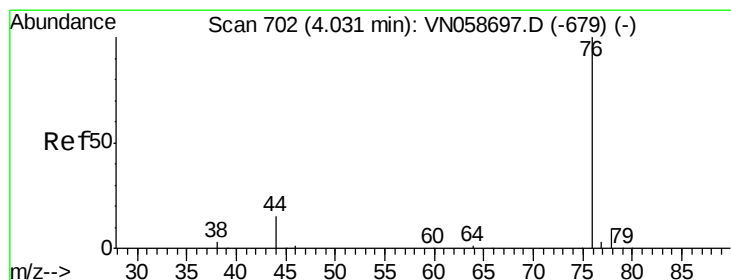
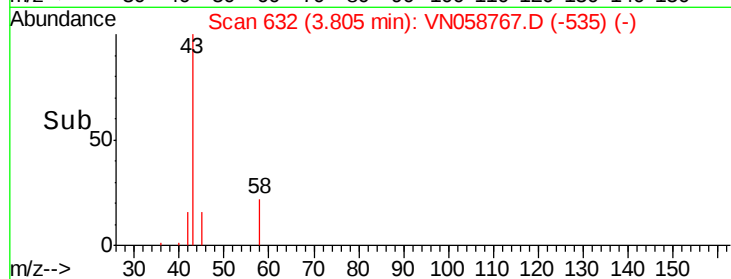
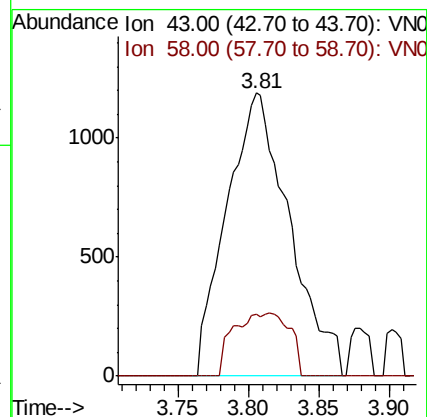
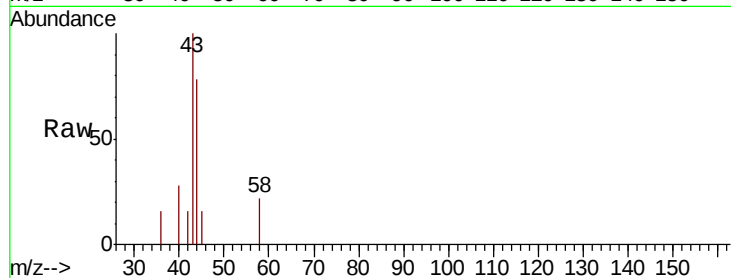
ClientSampled :

Tot Ion: 43 Resp: 3690

Ion Ratio Lower Upper

43 100

58 21.9 23.3 34.9#



#17

Carbon Disulfide

Concen: 0.395 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058767.D

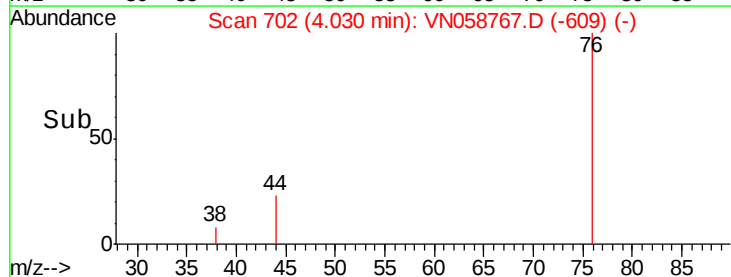
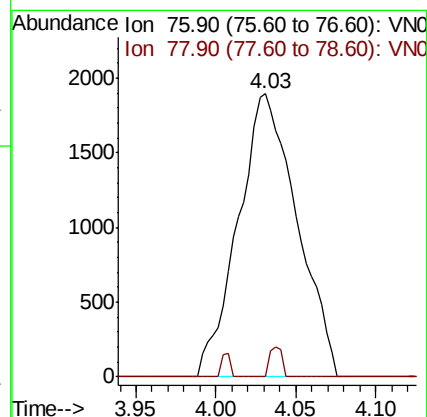
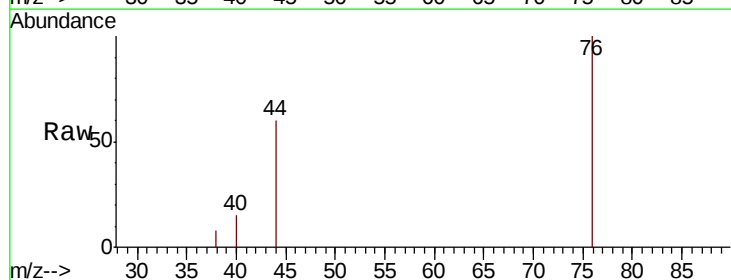
Acq: 14 Oct 2019 22:26

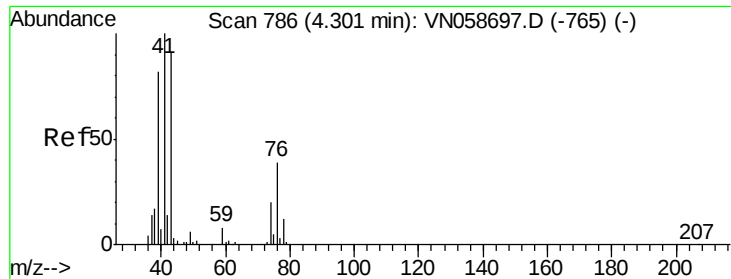
Tgt Ion: 76 Resp: 4792

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

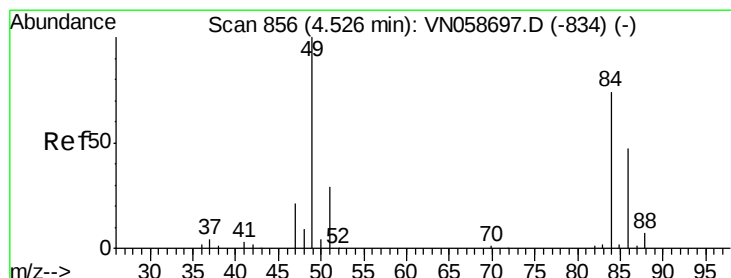
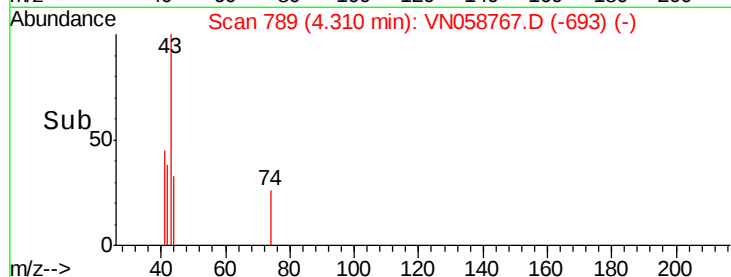
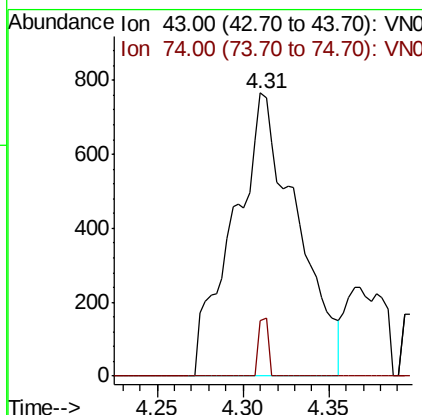
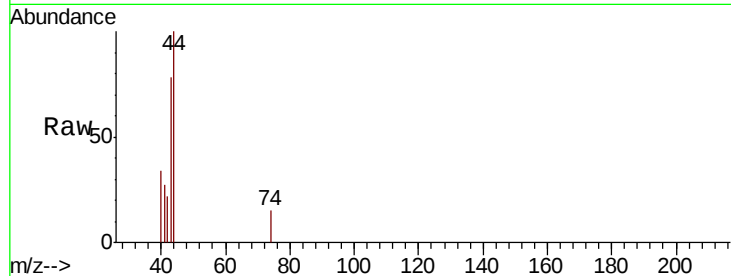




#18
Methyl Acetate
Concen: 0.338 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

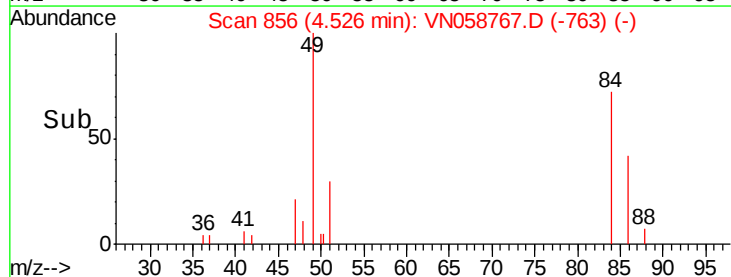
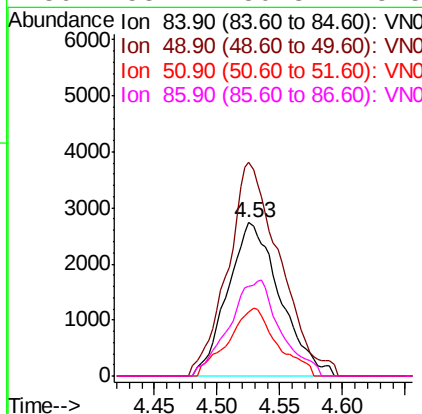
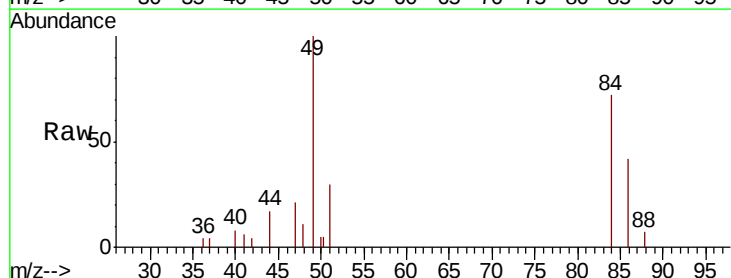
Instrument :
MSVOA_N
ClientSampleId :

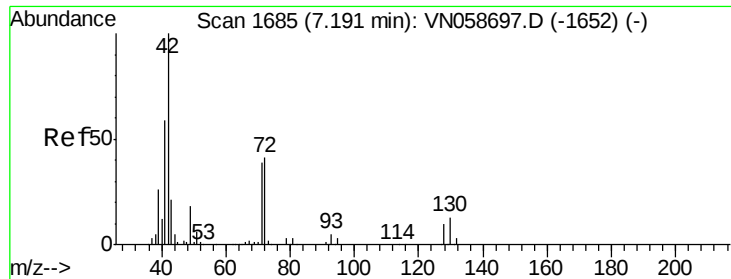
Tot Ion: 43 Resp: 1963
Ion Ratio Lower Upper
43 100
74 3.0 17.2 25.8#



#20
Methylene Chloride
Concen: 1.658 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Tgt Ion: 84 Resp: 7940
Ion Ratio Lower Upper
84 100
49 139.3 107.6 161.4
51 41.3 31.4 47.0
86 58.7 50.3 75.5

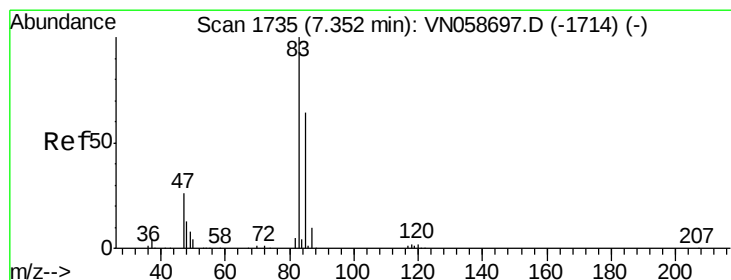
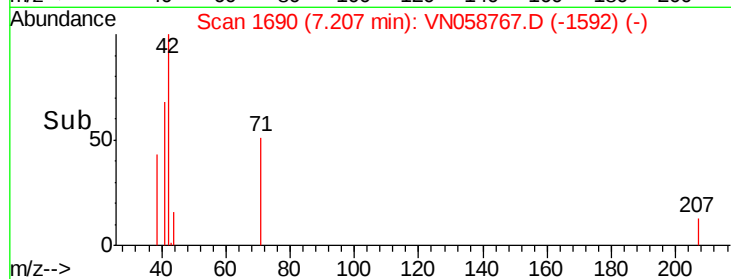
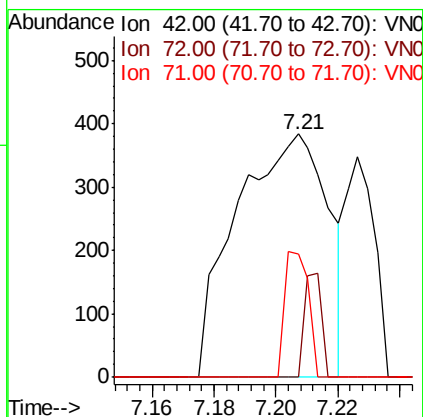
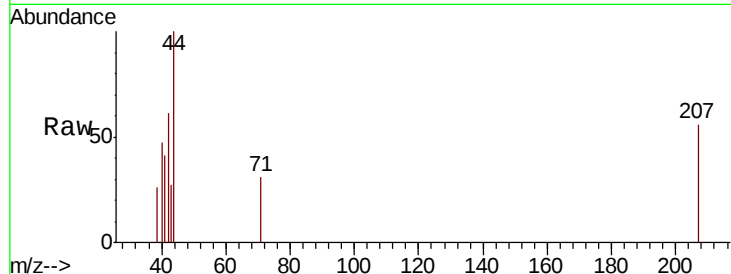




#29
Tetrahydrofuran
Concen: 0.368 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.02 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

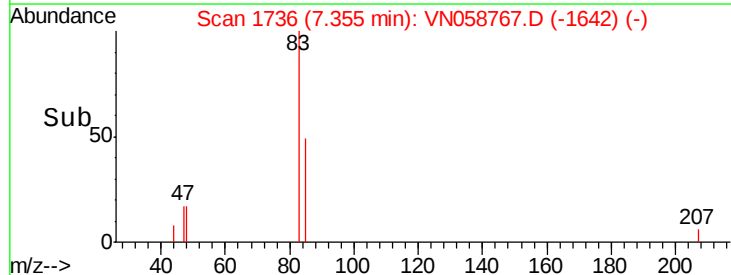
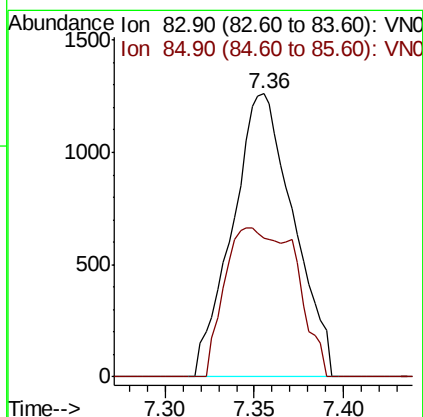
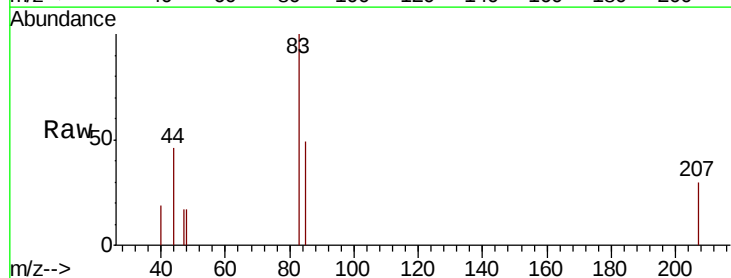
Instrument :
MSVOA_N
ClientSampled :

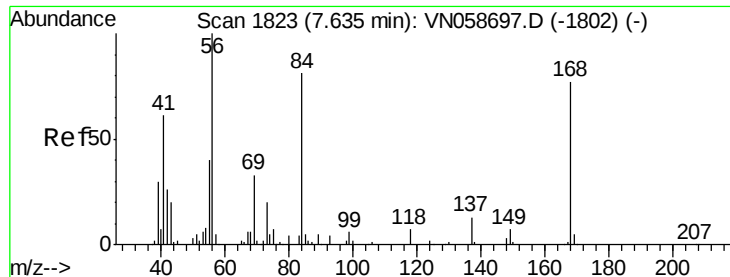
Tot Ion: 42 Resp: 787
Ion Ratio Lower Upper
42 100
72 7.9 32.8 49.2#
71 13.5 31.1 46.7#



#30
Chloroform
Concen: 0.354 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Tgt Ion: 83 Resp: 3014
Ion Ratio Lower Upper
83 100
85 49.1 51.0 76.6#

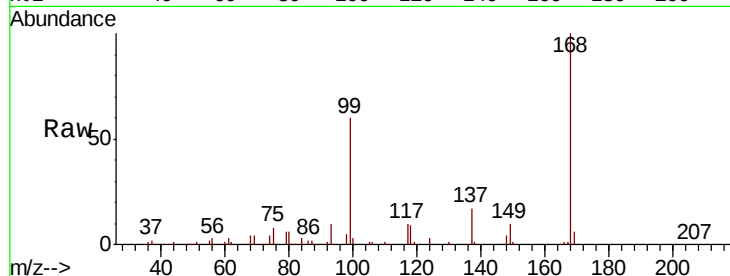




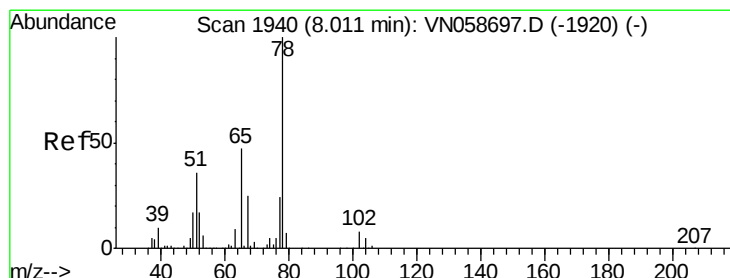
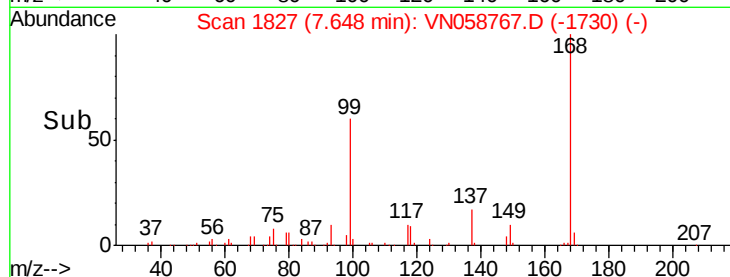
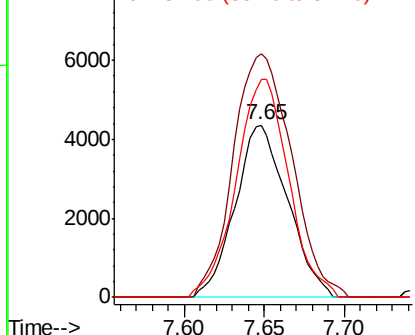
#31
Cyclohexane
Concen: 1.209 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 9817
Ion Ratio Lower Upper
56 100
69 141.2 26.2 39.4#
84 126.7 64.9 97.3#

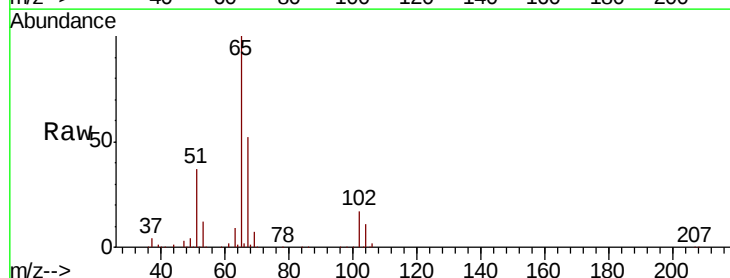


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

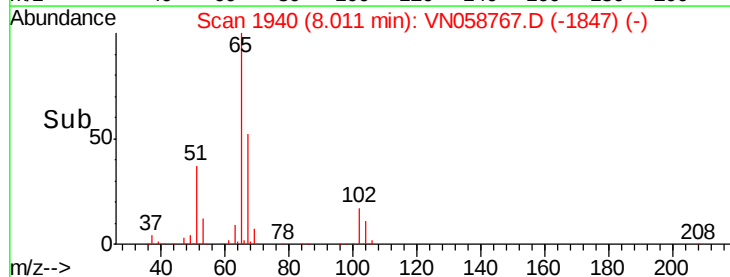
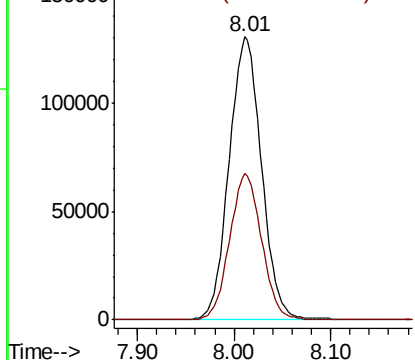


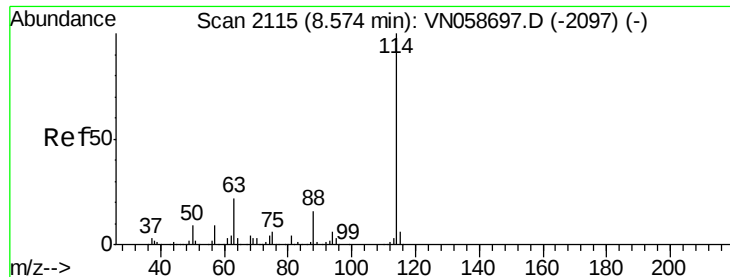
#33
1,2-Dichloroethane-d4
Concen: 54.912 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Tgt Ion: 65 Resp: 303921
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

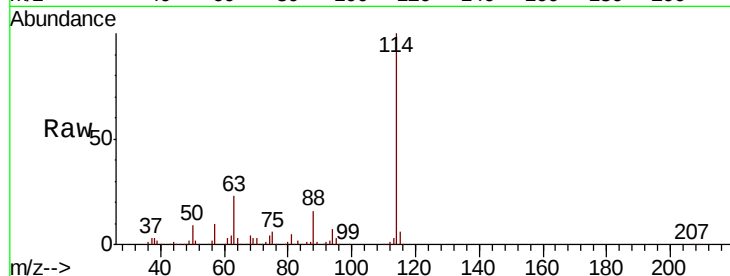




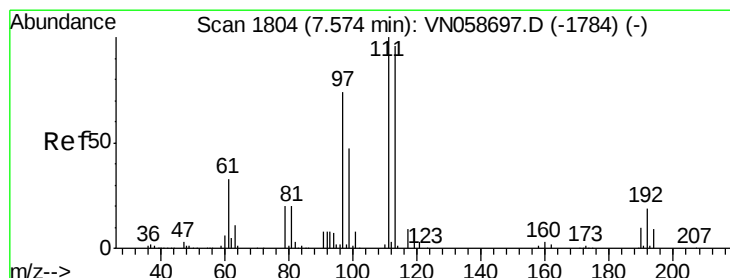
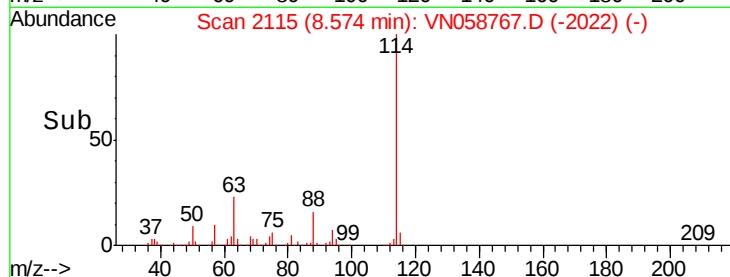
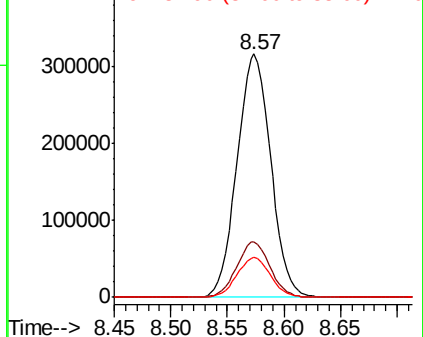
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058767.D
 Acq: 14 Oct 2019 22:26

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	43.8
88	16.3	0.0	32.0

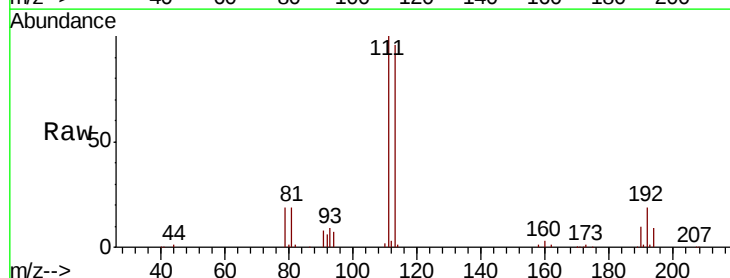


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

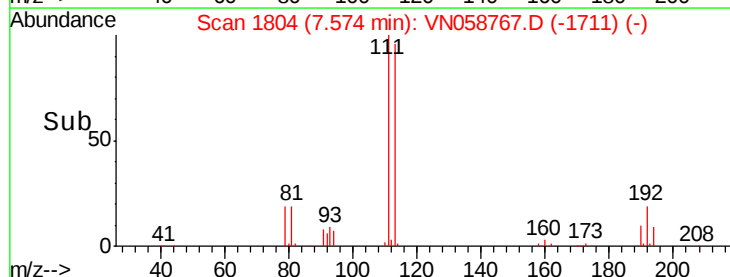
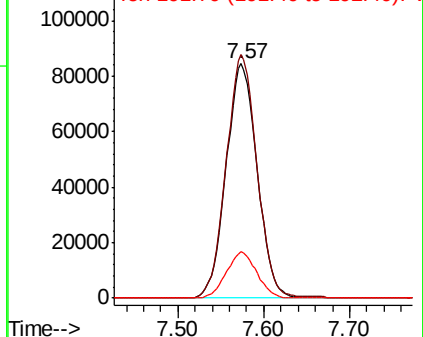


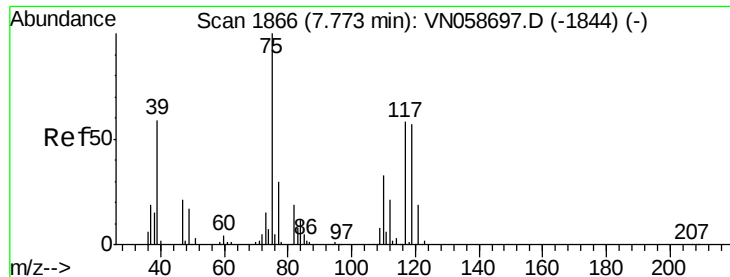
#35
 Dibromofluoromethane
 Concen: 52.206 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058767.D
 Acq: 14 Oct 2019 22:26

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.3	123.5
192	19.3	15.0	22.6



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

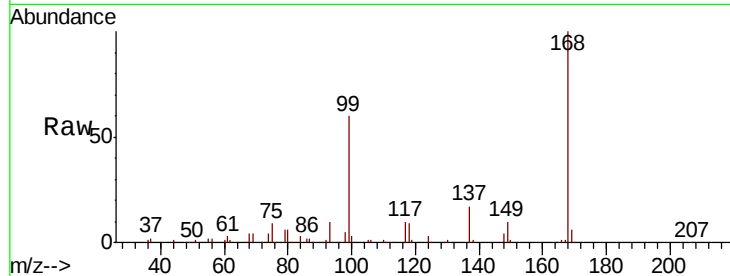




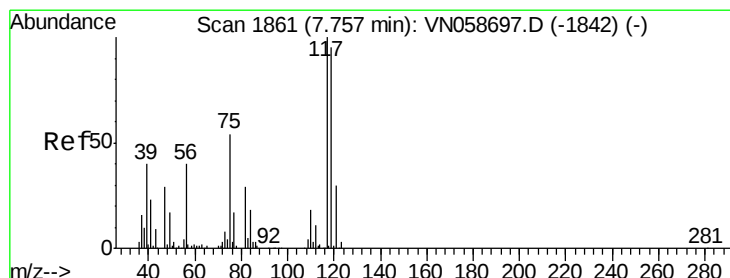
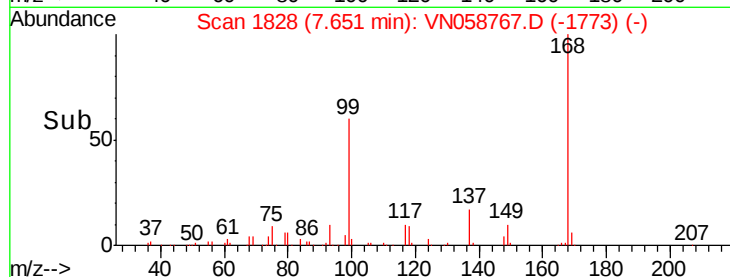
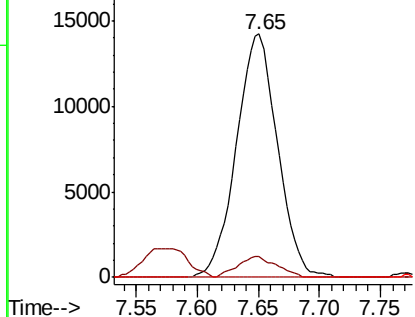
#36
 1,1-Dichloropropene
 Concen: 4.985 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN058767.D
 Acq: 14 Oct 2019 22:26

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.6	49.8#
77	0.0	24.6	37.0#

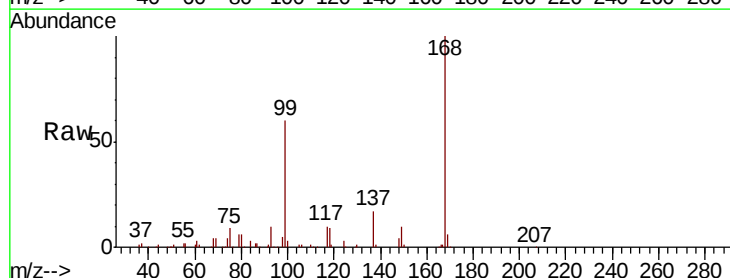


Abundance Ion 74.90 (74.60 to 75.60): VN058767.D (-1773) (-)
 Ion 109.90 (109.60 to 110.60): VN058767.D (-1773) (-)
 Ion 76.90 (76.60 to 77.60): VN058767.D (-1773) (-)

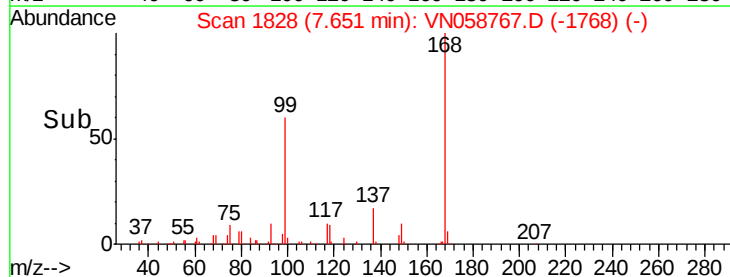
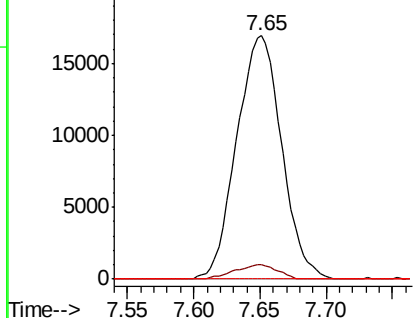


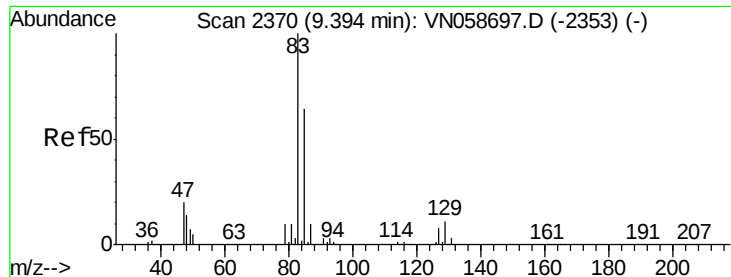
#38
 Carbon Tetrachloride
 Concen: 6.153 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058767.D
 Acq: 14 Oct 2019 22:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	75.7	113.5#
121	0.0	23.9	35.9#



Abundance Ion 116.80 (116.50 to 117.50): VN058767.D (-1768) (-)
 Ion 118.80 (118.50 to 119.50): VN058767.D (-1768) (-)
 Ion 120.80 (120.50 to 121.50): VN058767.D (-1768) (-)





#47

Bromodichloromethane

Concen: 0.253 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

Instrument :
MSVOA_N
ClientSampled :

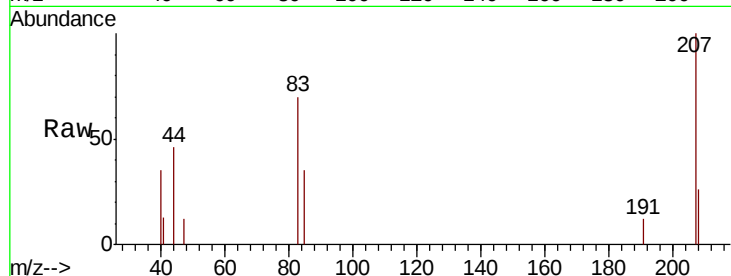
Tot Ion: 83 Resp: 1670

Ion Ratio Lower Upper

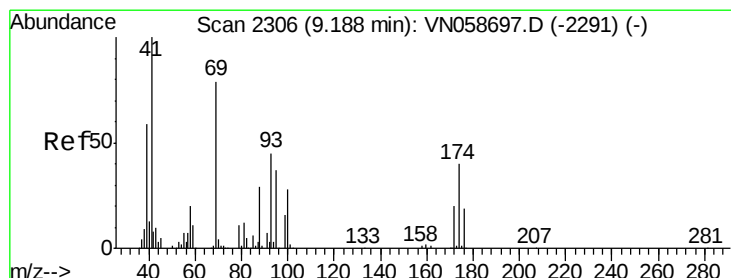
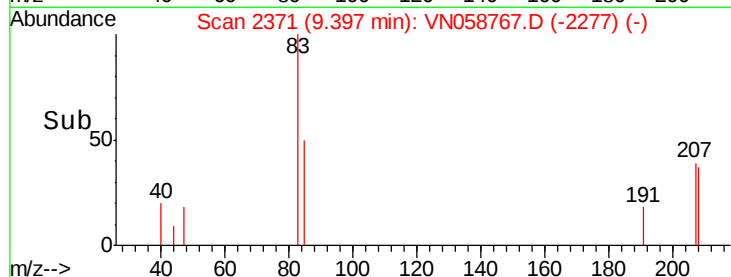
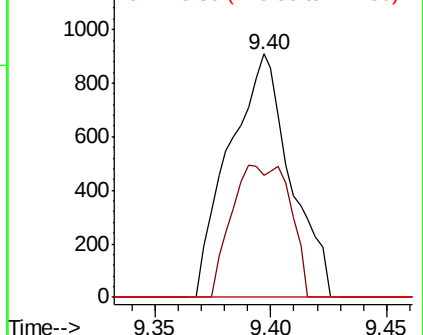
83 100

85 50.4 50.9 76.3#

127 0.0 6.3 9.5#



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V



#49

1,4-Dioxane

Concen: 1.244 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.02 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

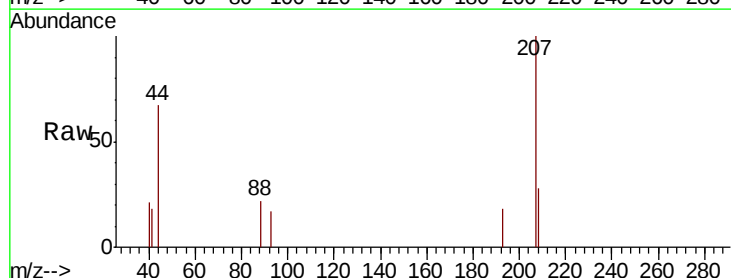
Tgt Ion: 88 Resp: 100

Ion Ratio Lower Upper

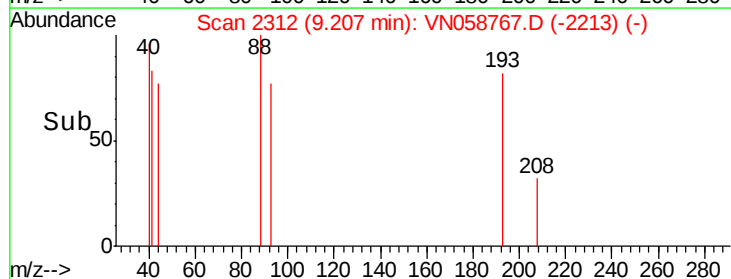
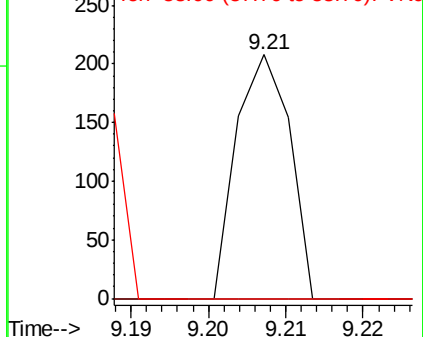
88 100

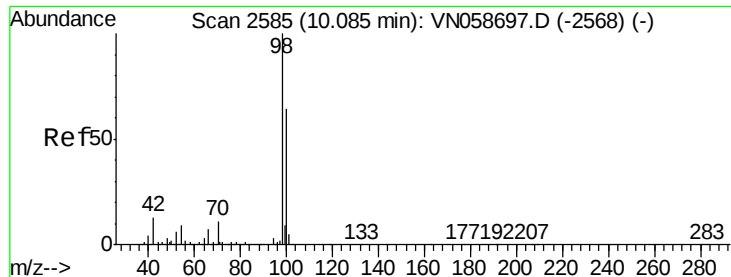
43 0.0 28.6 43.0#

58 30.0 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 48.719 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

Instrument :

MSVOA_N

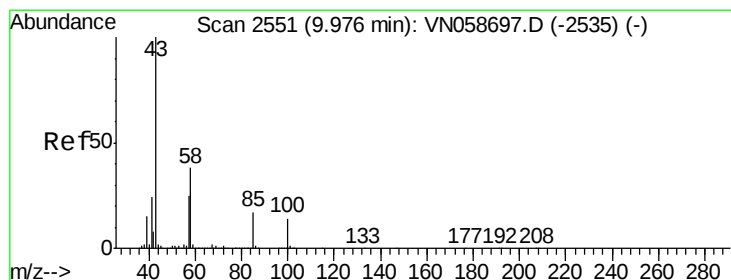
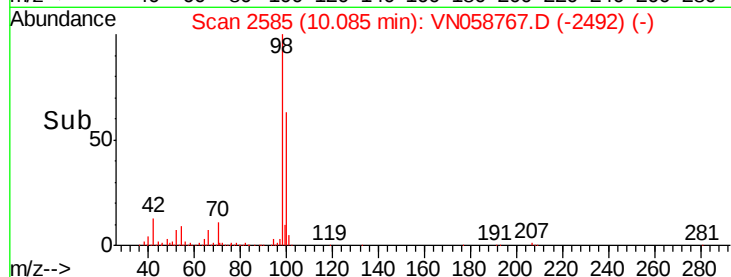
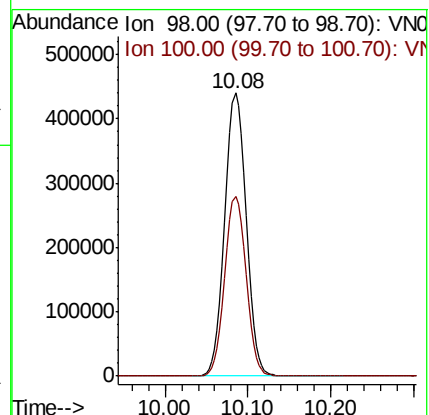
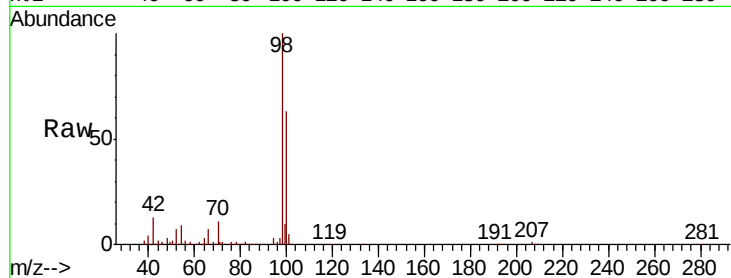
ClientSampled :

Tot Ion: 98 Resp: 791930

Ion Ratio Lower Upper

98 100

100 63.3 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.219 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.01 min

Lab File: VN058767.D

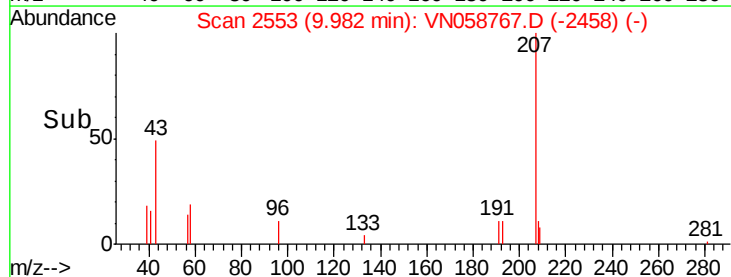
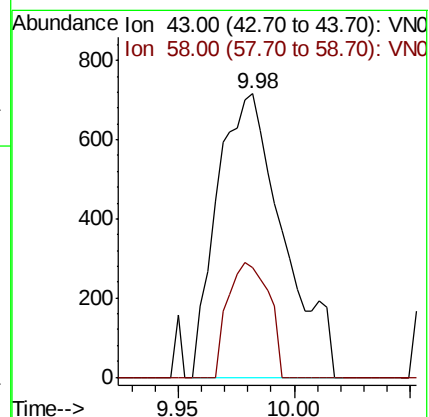
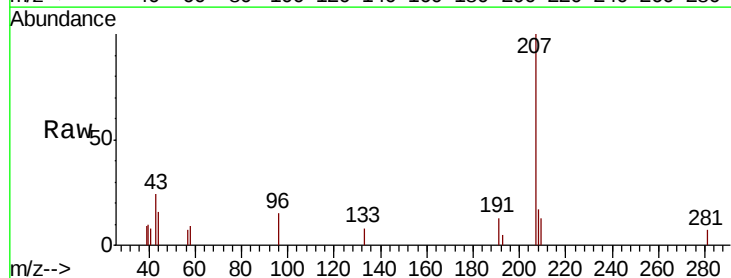
Acq: 14 Oct 2019 22:26

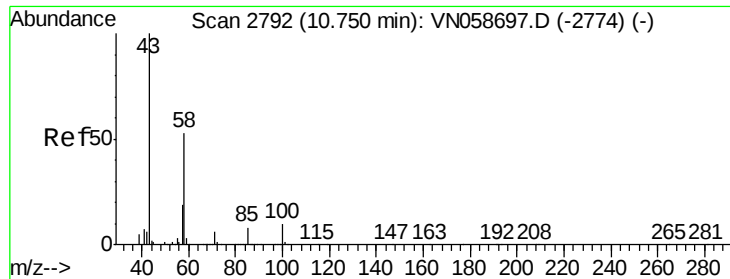
Tgt Ion: 43 Resp: 1413

Ion Ratio Lower Upper

43 100

58 25.3 30.3 45.5#





#59

2-Hexanone

Concen: 0.475 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

Instrument :

MSVOA_N

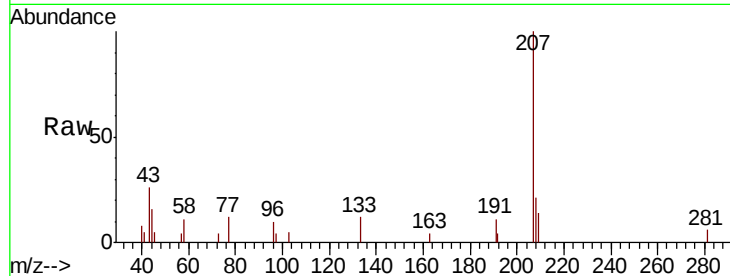
ClientSampleId :

Tot Ion: 43 Resp: 2362

Ion Ratio Lower Upper

43 100

58 37.2 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

1200

1000

800

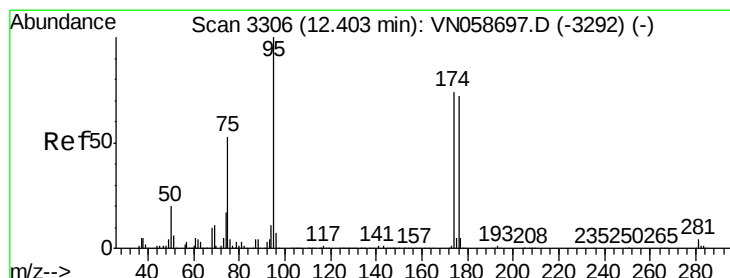
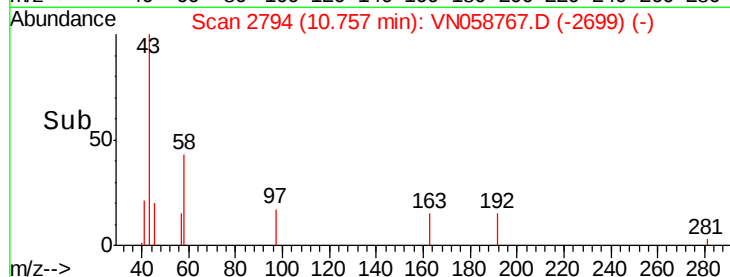
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.267 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

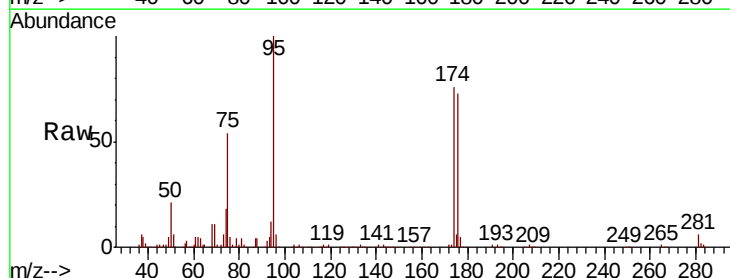
Tgt Ion: 95 Resp: 266221

Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.4

176 72.9 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

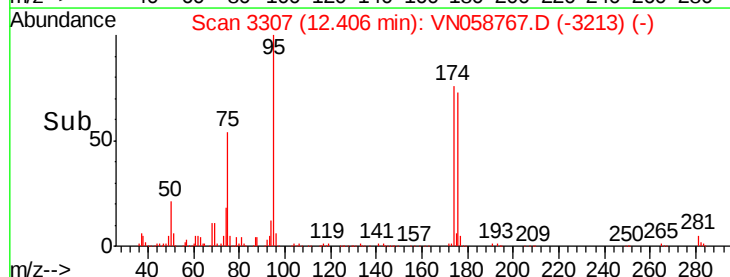
150000

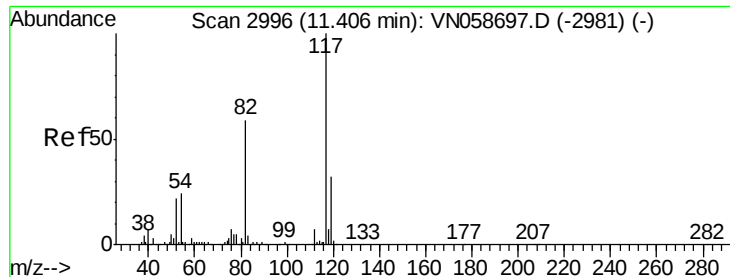
100000

50000

0

Time-->

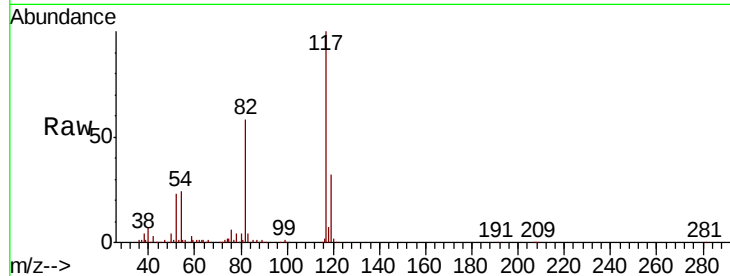




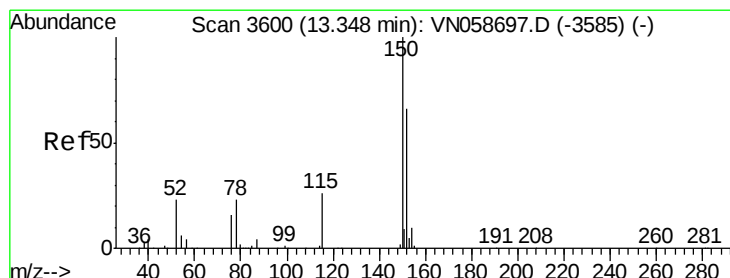
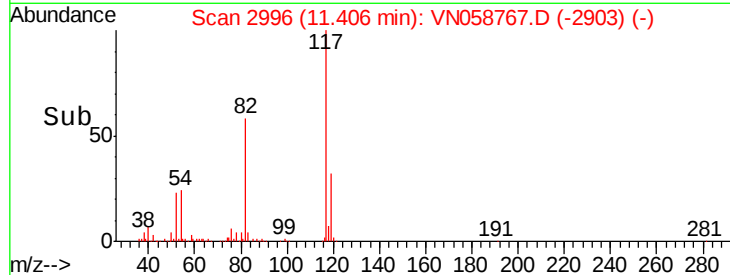
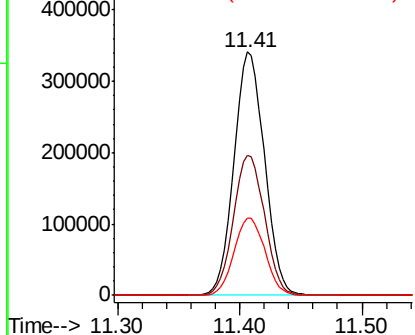
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 593674
Ion Ratio Lower Upper
117 100
82 57.7 47.0 70.4
119 31.7 25.4 38.2

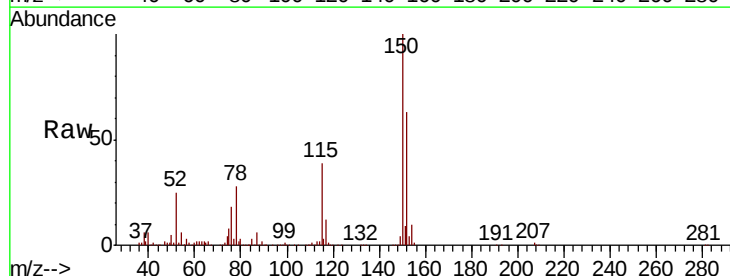


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

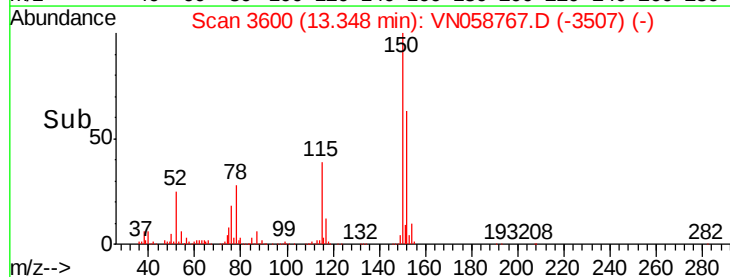
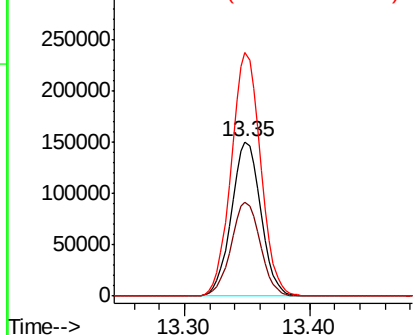


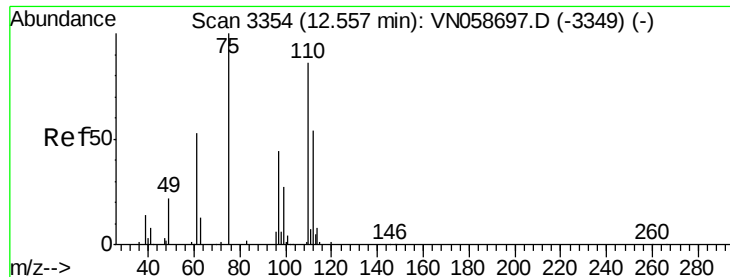
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN058767.D
Acq: 14 Oct 2019 22:26

Tgt Ion:152 Resp: 245168
Ion Ratio Lower Upper
152 100
115 60.8 30.4 91.2
150 157.4 0.0 345.4



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



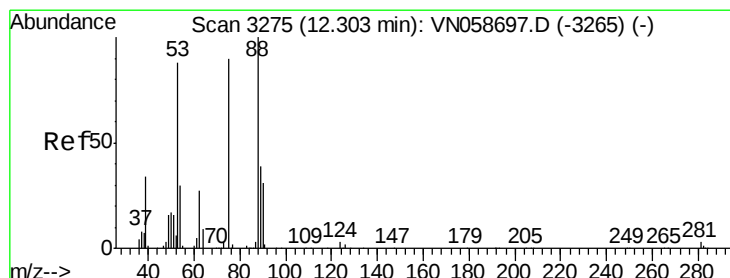
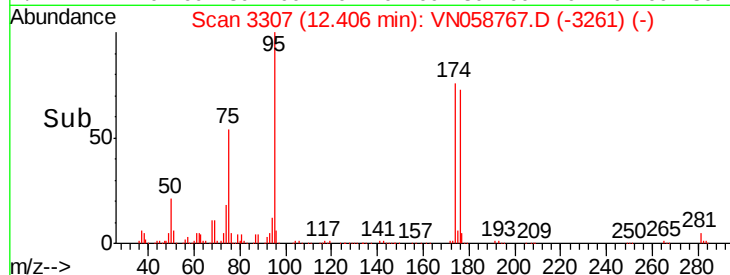
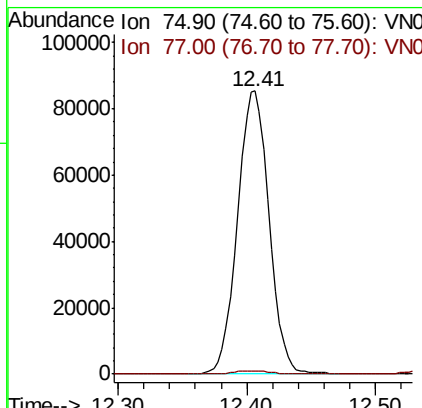
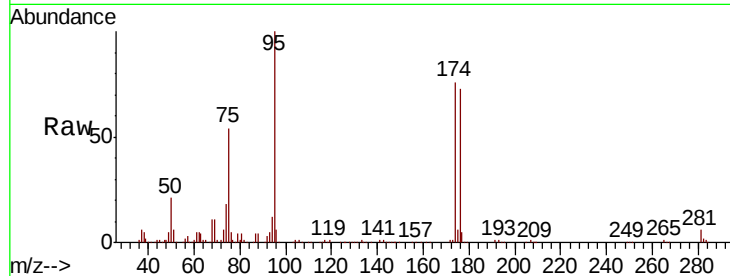


#76

1,2,3-Trichloropropane
 Concen: 26.988 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058767.D
 Acq: 14 Oct 2019 22:26

Instrument :
 MSVOA_N
 ClientSampleId :

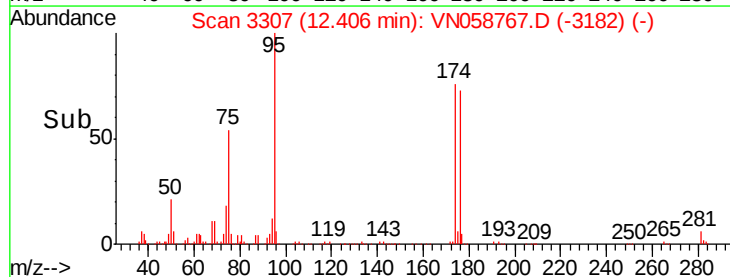
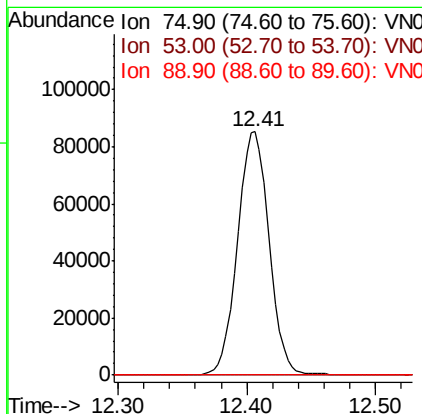
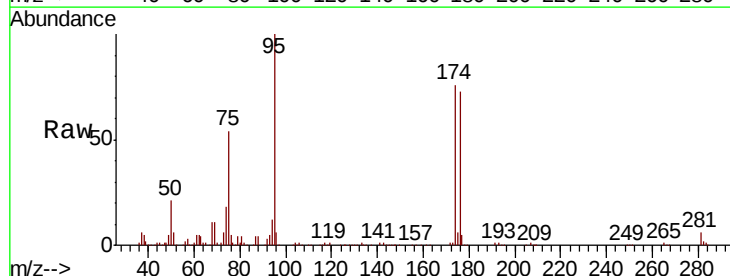
Tot Ion: 75 Resp: 145153
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#

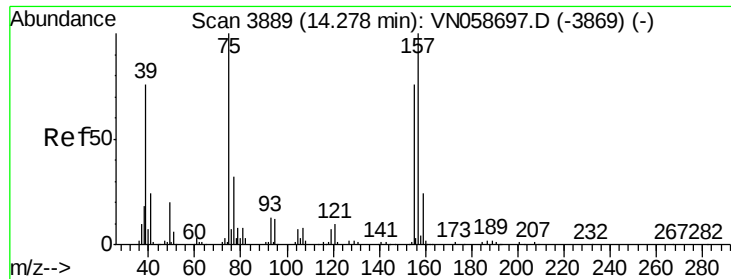


#81

trans-1,4-Dichloro-2-butene
 Concen: 72.293 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058767.D
 Acq: 14 Oct 2019 22:26

Tgt Ion: 75 Resp: 145153
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.4 117.6#
 89 0.0 34.9 52.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.616 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

Instrument :

MSVOA_N

ClientSampleId :

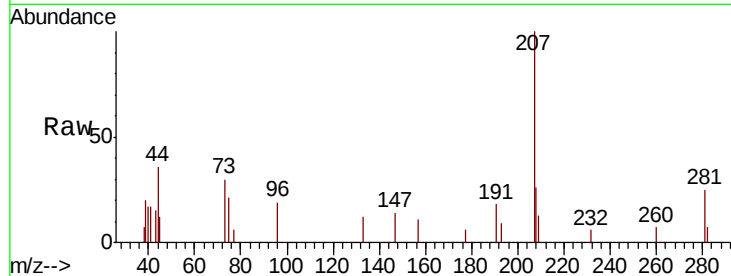
Tot Ion: 75 Resp: 842

Ion Ratio Lower Upper

75 100

155 3.7 37.9 113.6#

157 38.7 49.4 148.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058767.D (-3796) (-)

Ion 154.80 (154.50 to 155.50): VN058767.D (-3796) (-)

Ion 156.80 (156.50 to 157.50): VN058767.D (-3796) (-)

14.28

600

400

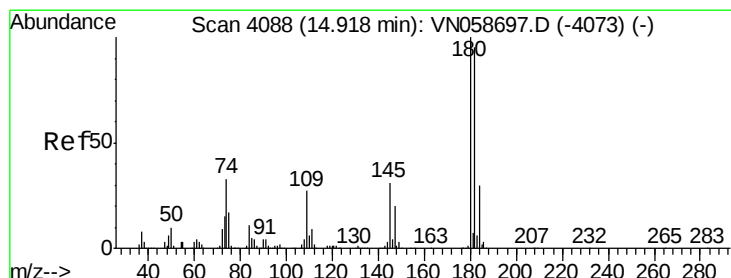
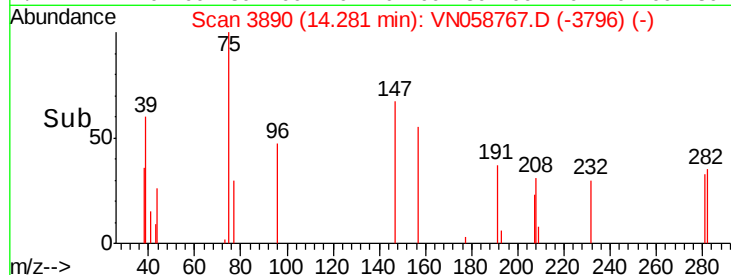
200

0

14.25

14.30

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.801 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. -0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

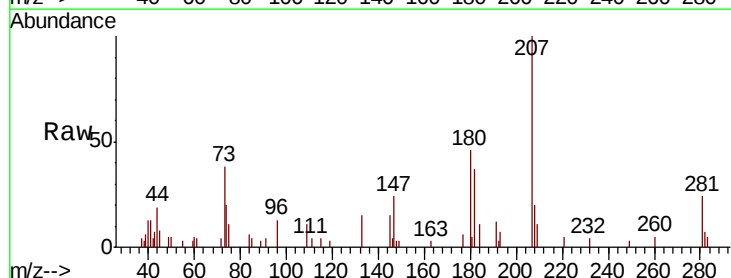
Tgt Ion: 180 Resp: 3793

Ion Ratio Lower Upper

180 100

182 86.9 47.4 142.2

145 33.3 15.4 46.2



Abundance Ion 179.80 (179.50 to 180.50): VN058767.D (-3995) (-)

Ion 181.80 (181.50 to 182.50): VN058767.D (-3995) (-)

Ion 144.80 (144.50 to 145.50): VN058767.D (-3995) (-)

14.92

3000

2500

2000

1500

1000

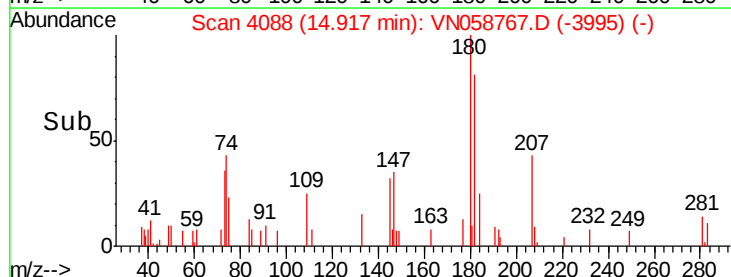
500

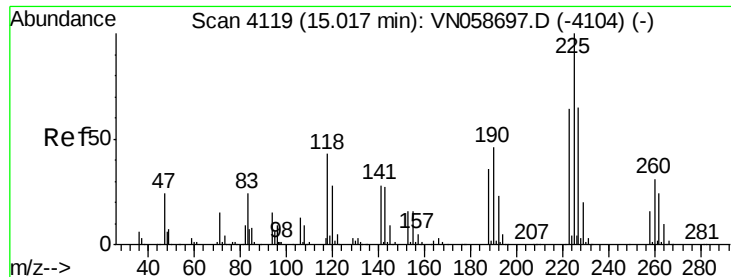
0

14.90

14.95

Time-->





#94

Hexachlorobutadiene

Concen: 0.310 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

Instrument :

MSVOA_N

ClientSampleId :

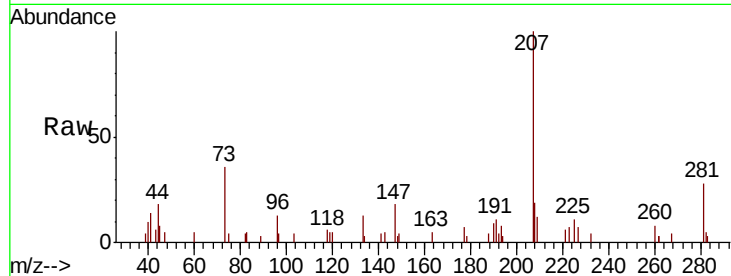
Tot Ion:225 Resp: 773

Ion Ratio Lower Upper

225 100

223 71.5 32.3 96.8

227 59.0 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

15.01

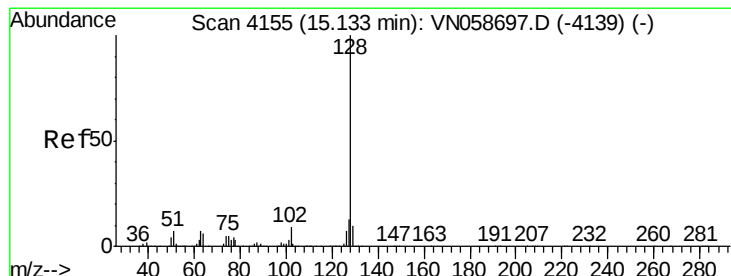
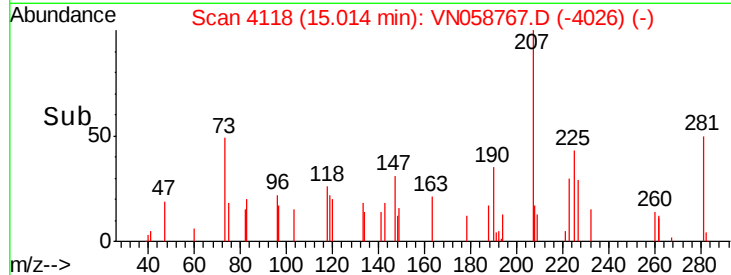
600

400

200

0

Time--> 14.98 15.00 15.02 15.04



#95

Naphthalene

Concen: 1.300 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058767.D

Acq: 14 Oct 2019 22:26

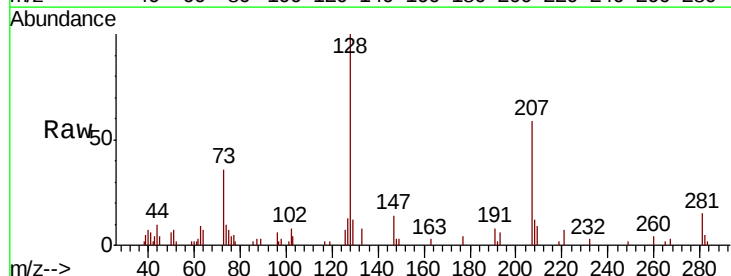
Tgt Ion:128 Resp: 17694

Ion Ratio Lower Upper

128 100

127 11.4 10.2 15.4

129 10.4 8.5 12.7



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

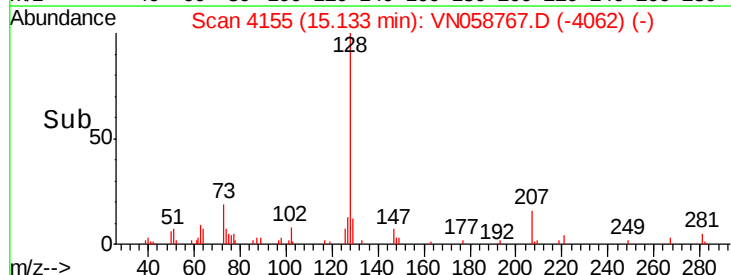
15.13

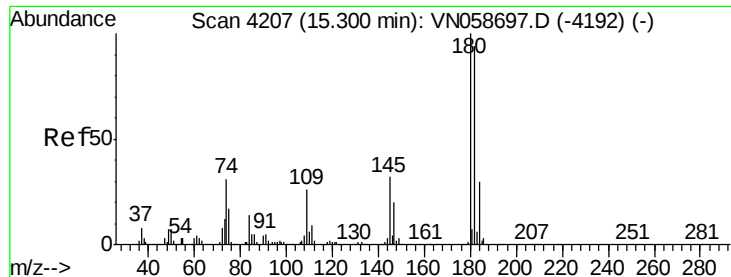
10000

5000

0

Time--> 15.10 15.15 15.20





#96
 1,2,3-Trichlorobenzene
 Concen: 1.133 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. -0.00 min
 Lab File: VN058767.D
 Acq: 14 Oct 2019 22:26

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.4	47.3	142.0
145	32.8	16.2	48.6

