

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058938.D
 Acq On : 23 Oct 2019 18:20
 Operator : JC/SP
 Sample : K5508-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 24 01:15:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	302425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	510722	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	459397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	170364	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	246215	55.51	ug/l	0.00
Spiked Amount			Recovery	=	111.02%	
35) Dibromofluoromethane	7.57	113	175402	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
50) Toluene-d8	10.08	98	617374	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
62) 4-Bromofluorobenzene	12.40	95	199535	41.69	ug/l	0.00
Spiked Amount			Recovery	=	83.38%	

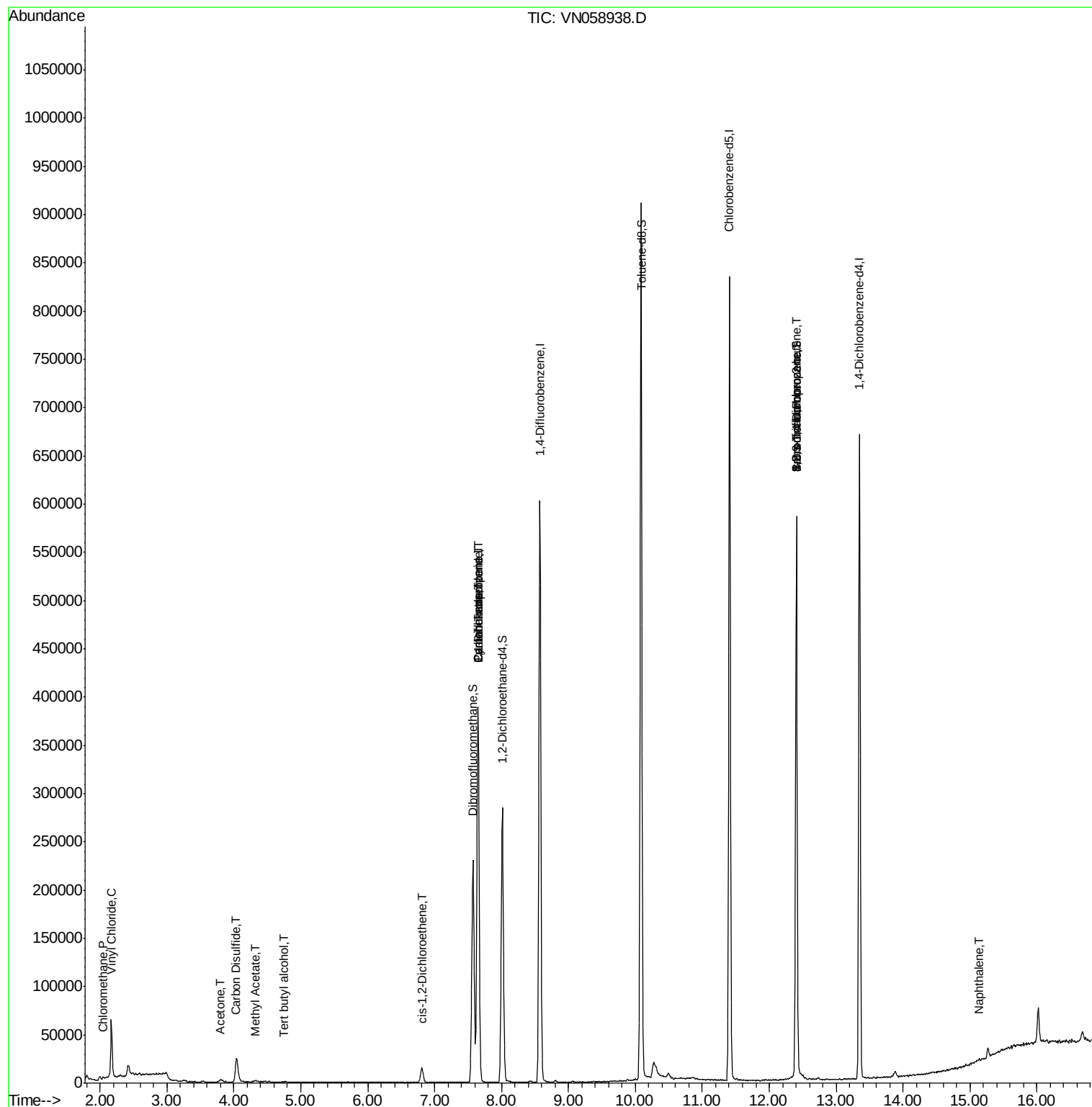
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1684	0.361	ug/l #	87
4) Vinyl Chloride	2.17	62	54714	11.800	ug/l	100
11) Tert butyl alcohol	4.75	59	845	1.148	ug/l #	72
16) Acetone	3.80	43	4930	2.249	ug/l #	82
17) Carbon Disulfide	4.02	76	2523	0.263	ug/l #	75
18) Methyl Acetate	4.32	43	1706	0.342	ug/l #	58
27) cis-1,2-Dichloroethene	6.81	96	8252	2.194	ug/l	84
31) Cyclohexane	7.65	56	7343	1.152	ug/l #	10
36) 1,1-Dichloropropene	7.65	75	25758	4.926	ug/l #	52
38) Carbon Tetrachloride	7.65	117	30543	5.670	ug/l #	18
71) Bromoform	12.40	173	1247	0.456	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	107629	27.259	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	107629	71.012	ug/l #	10
95) Naphthalene	15.14	128	306	2.255	ug/l #	70

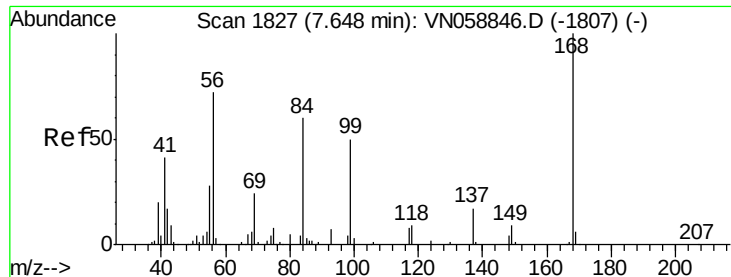
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102419\
Data File : VN058938.D
Acq On : 23 Oct 2019 18:20
Operator : JC/SP
Sample : K5508-03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Oct 24 01:15:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 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: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :

MSVOA_N

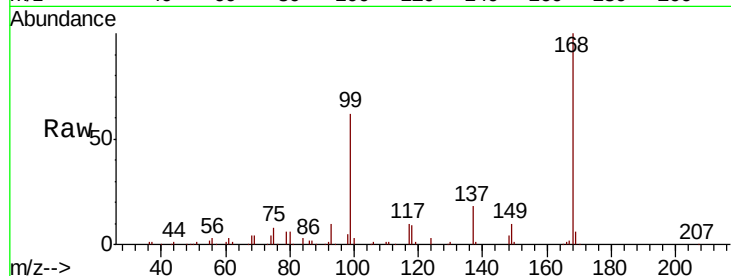
ClientSampleId :

Tot Ion:168 Resp: 302425

Ion Ratio Lower Upper

168 100

99 61.5 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VN058846.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN058846.D (-1807) (-)

7.65

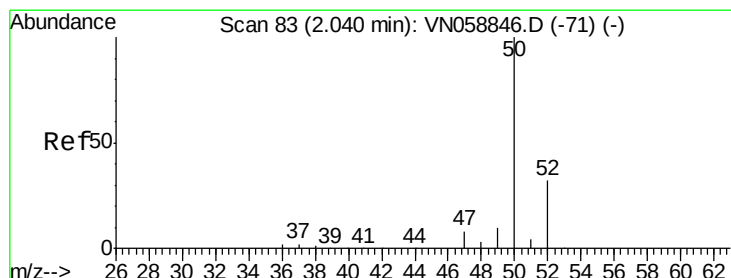
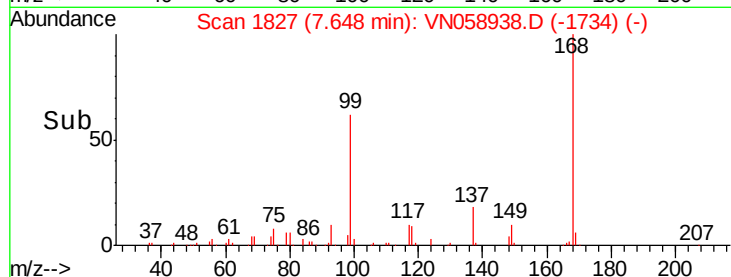
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.361 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058938.D

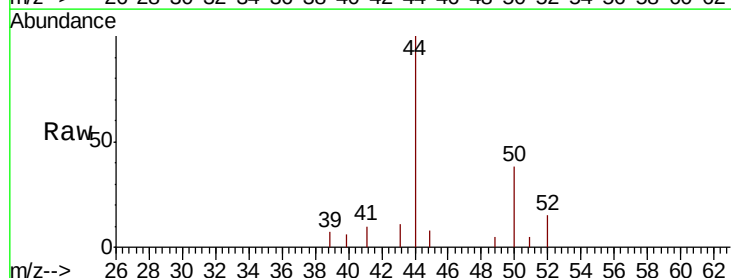
Acq: 23 Oct 2019 18:20

Tgt Ion: 50 Resp: 1684

Ion Ratio Lower Upper

50 100

52 39.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VN058846.D (-71) (-)

Ion 51.90 (51.60 to 52.60): VN058846.D (-71) (-)

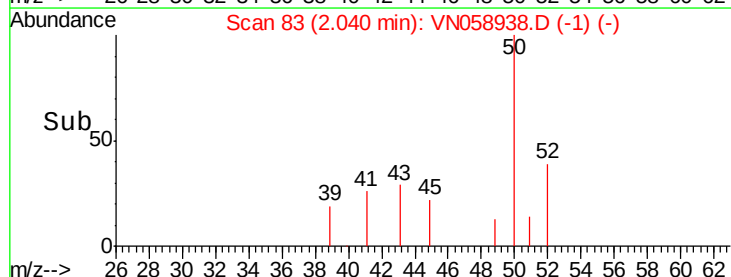
2.04

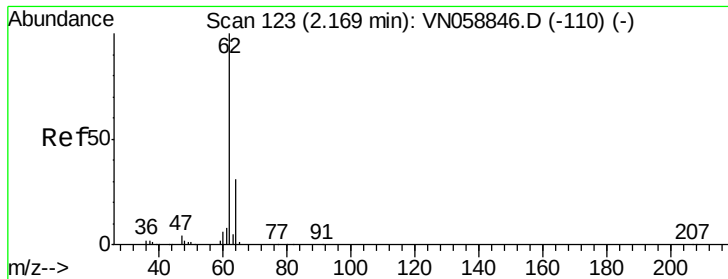
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 11.800 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :

MSVOA_N

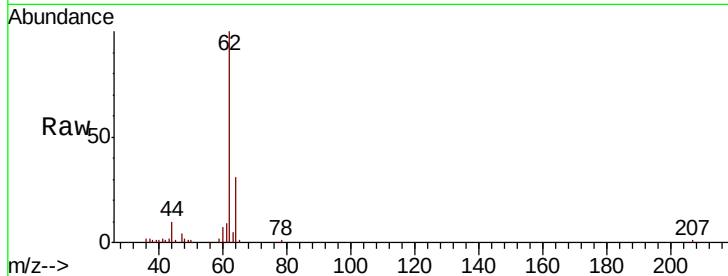
ClientSampleId :

Tot Ion: 62 Resp: 54714

Ion Ratio Lower Upper

62 100

64 30.8 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VN058938.D (-30) (-)

Ion 63.90 (63.60 to 64.60): VN058938.D (-30) (-)

2.17

40000

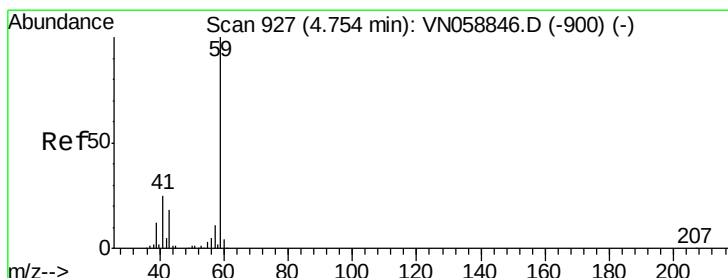
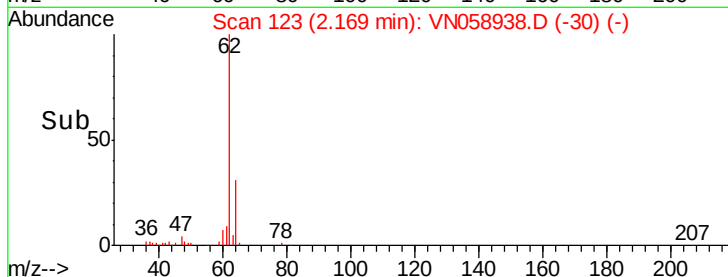
30000

20000

10000

0

Time--> 2.10 2.15 2.20 2.25



#11

Tert butyl alcohol

Concen: 1.148 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN058938.D

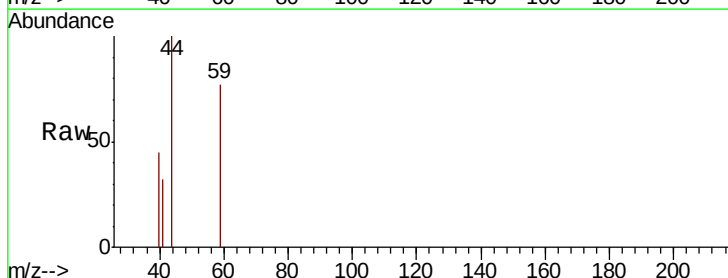
Acq: 23 Oct 2019 18:20

Tgt Ion: 59 Resp: 845

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN058938.D (-834) (-)

Ion 57.00 (56.70 to 57.70): VN058938.D (-834) (-)

4.75

500

400

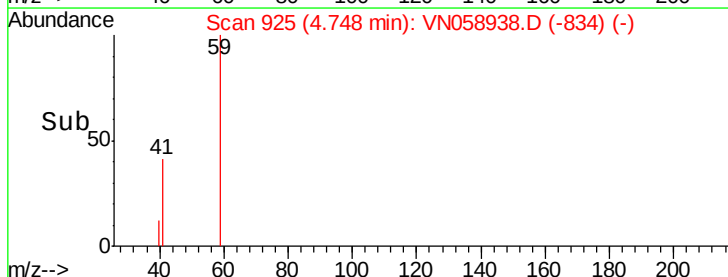
300

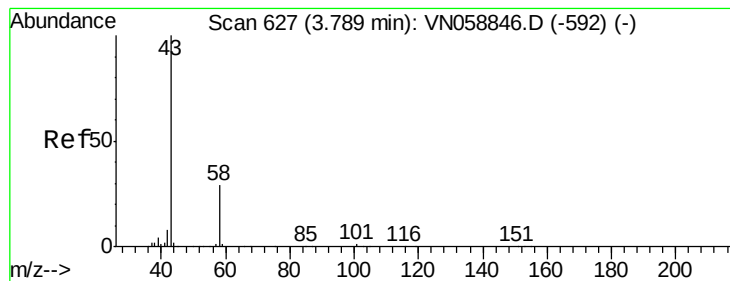
200

100

0

Time--> 4.70 4.72 4.74 4.76





#16

Acetone

Concen: 2.249 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :

MSVOA_N

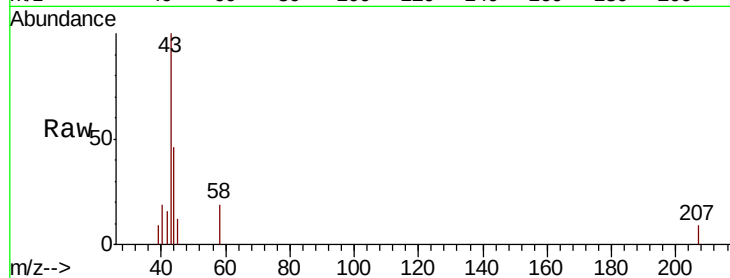
ClientSampleId :

Tot Ion: 43 Resp: 4930

Ion Ratio Lower Upper

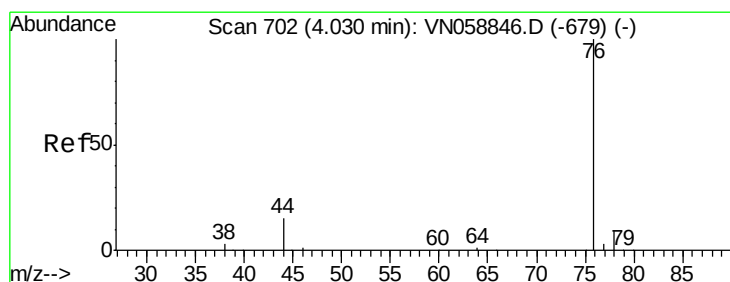
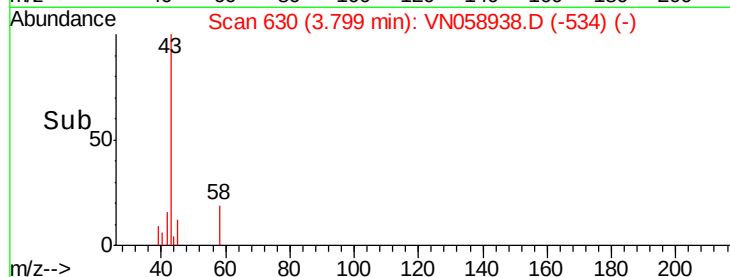
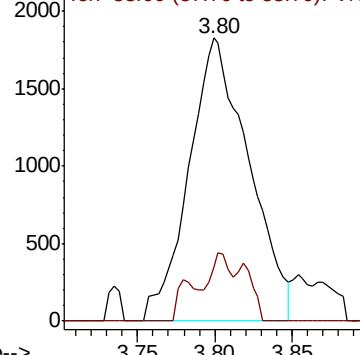
43 100

58 19.2 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.263 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058938.D

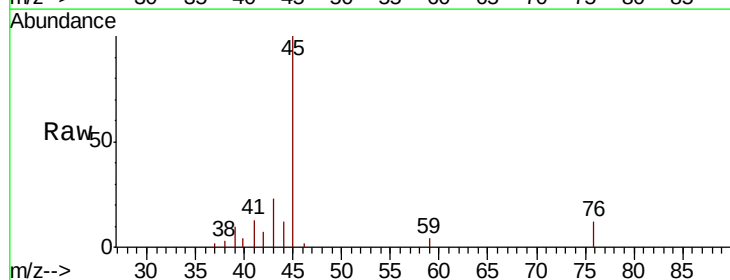
Acq: 23 Oct 2019 18:20

Tgt Ion: 76 Resp: 2523

Ion Ratio Lower Upper

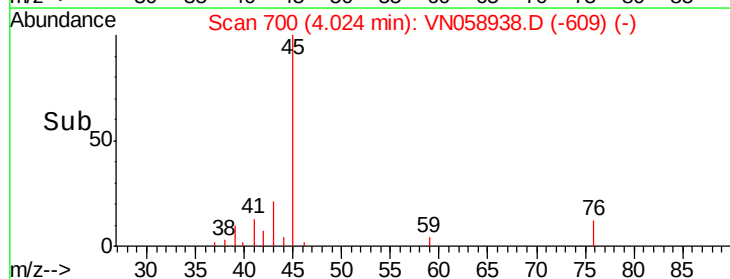
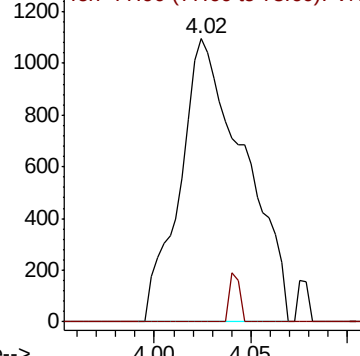
76 100

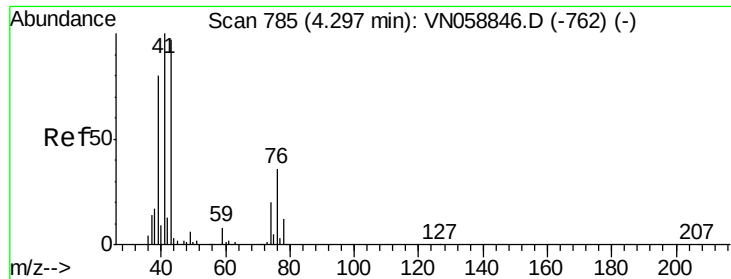
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

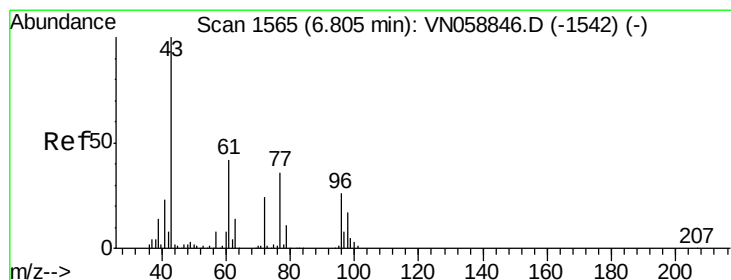
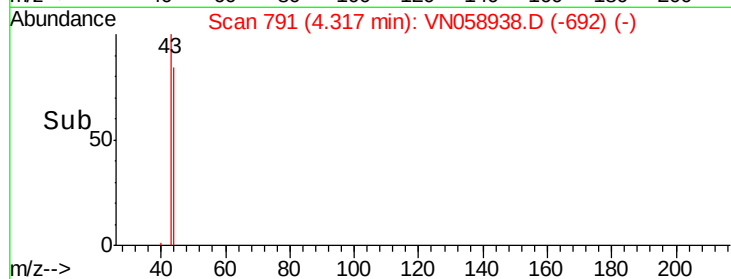
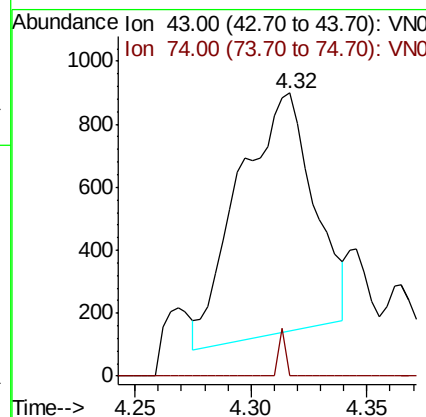
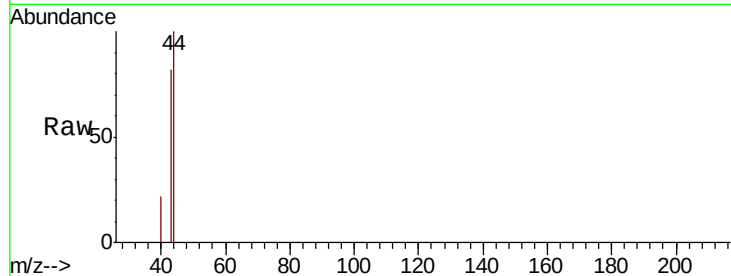




#18
Methvl Acetate
Concen: 0.342 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN058938.D
Acq: 23 Oct 2019 18:20

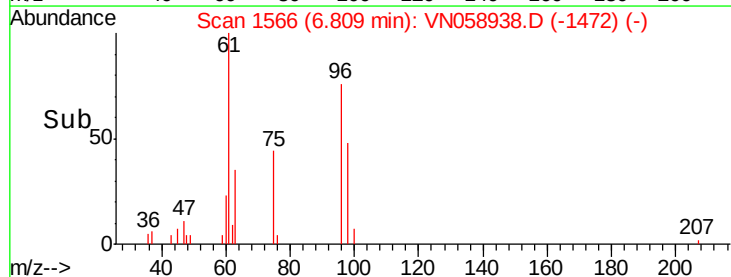
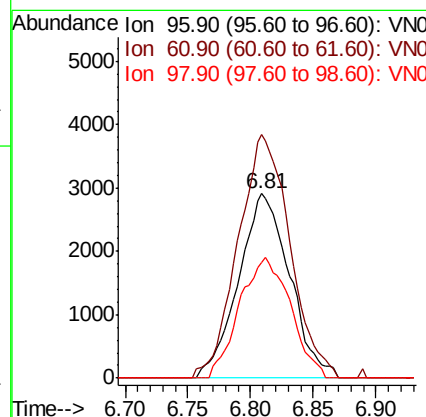
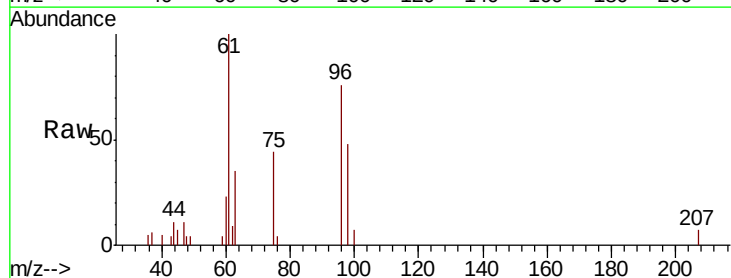
Instrument :
MSVOA_N
ClientSampled :

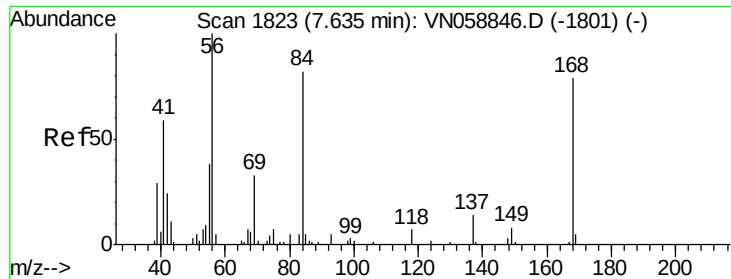
Tot Ion: 43 Resp: 1706
Ion Ratio Lower Upper
43 100
74 1.7 17.1 25.7#



#27
cis-1,2-Dichloroethene
Concen: 2.194 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VN058938.D
Acq: 23 Oct 2019 18:20

Tgt Ion: 96 Resp: 8252
Ion Ratio Lower Upper
96 100
61 134.0 0.0 325.0
98 65.2 0.0 128.0





#31

Cyclohexane

Concen: 1.152 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :

MSVOA_N

ClientSampled :

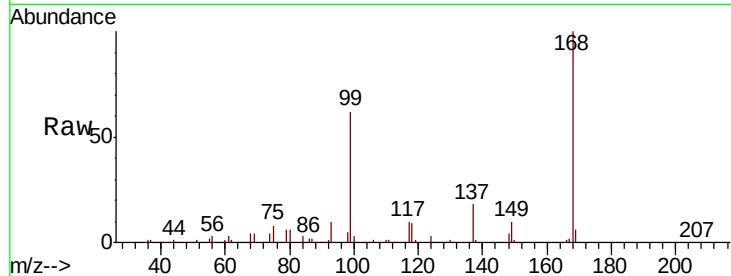
Tot Ion: 56 Resp: 7343

Ion Ratio Lower Upper

56 100

69 156.4 26.2 39.4#

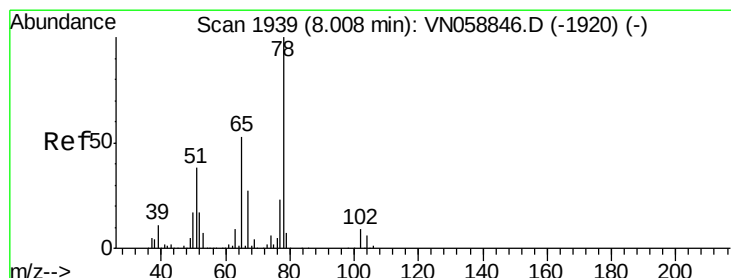
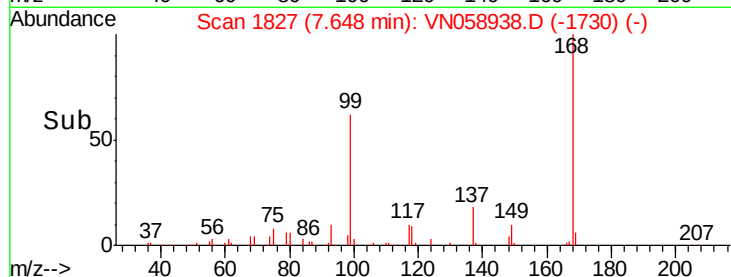
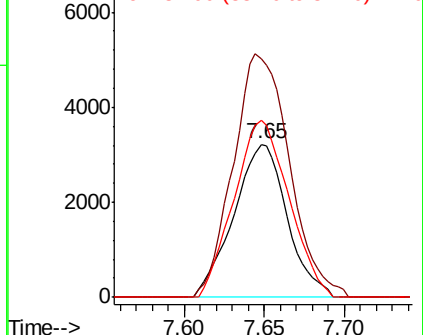
84 115.7 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.510 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058938.D

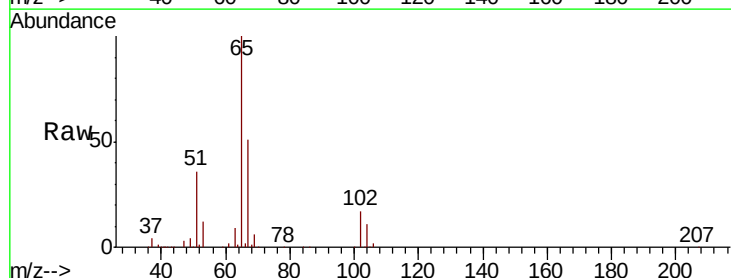
Acq: 23 Oct 2019 18:20

Tgt Ion: 65 Resp: 246215

Ion Ratio Lower Upper

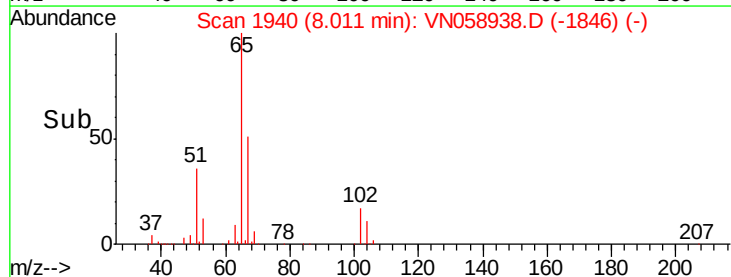
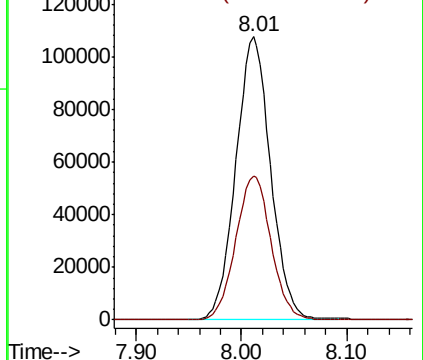
65 100

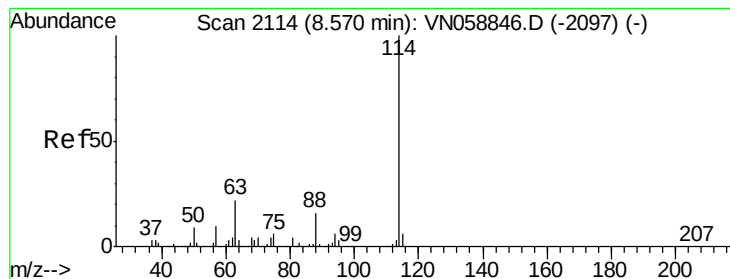
67 51.7 0.0 103.2



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: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :
MSVOA_N
ClientSampleId :

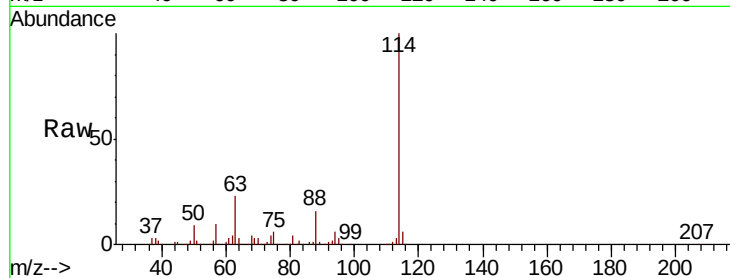
Tot Ion:114 Resp: 510722

Ion Ratio Lower Upper

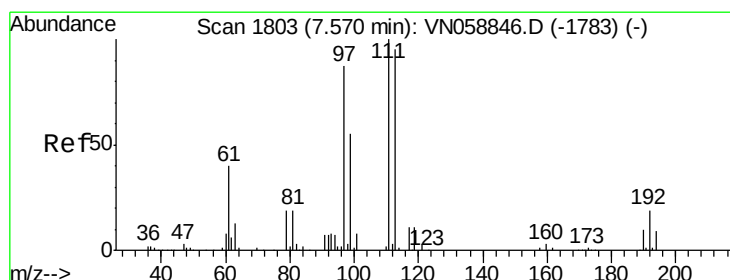
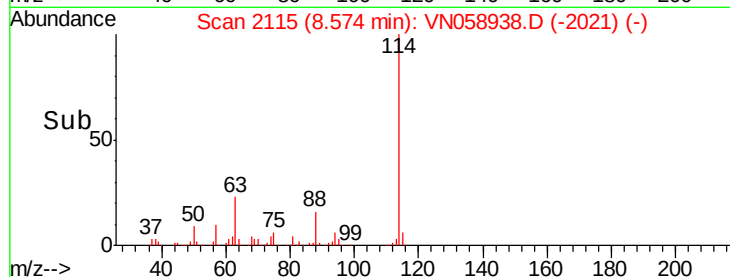
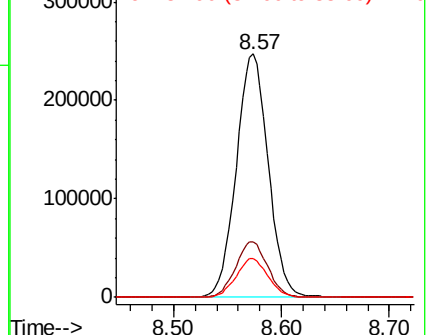
114 100

63 23.0 0.0 44.4

88 16.1 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: 52.236 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

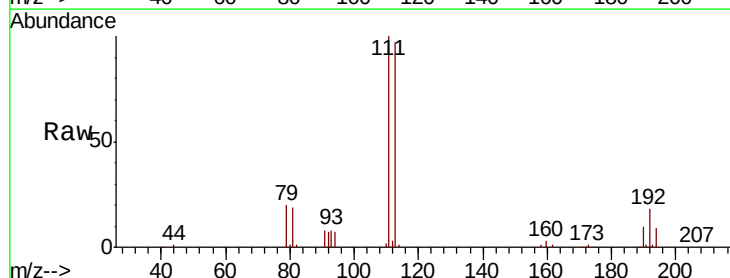
Tgt Ion:113 Resp: 175402

Ion Ratio Lower Upper

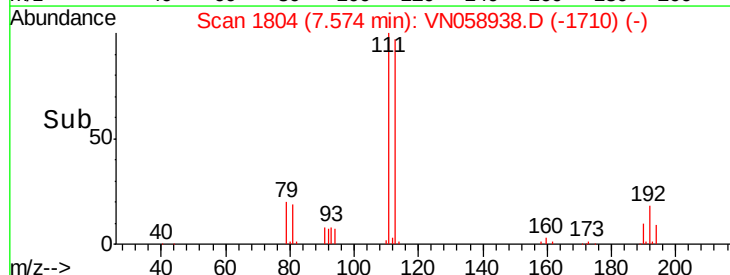
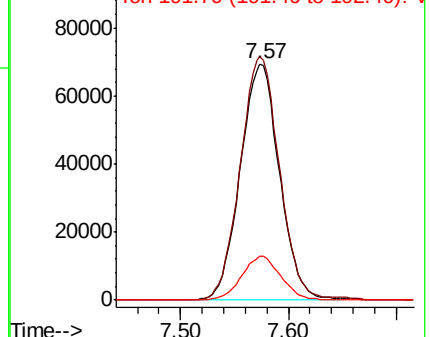
113 100

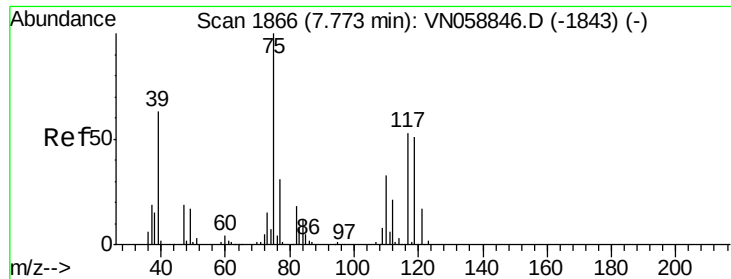
111 103.6 82.0 123.0

192 18.5 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

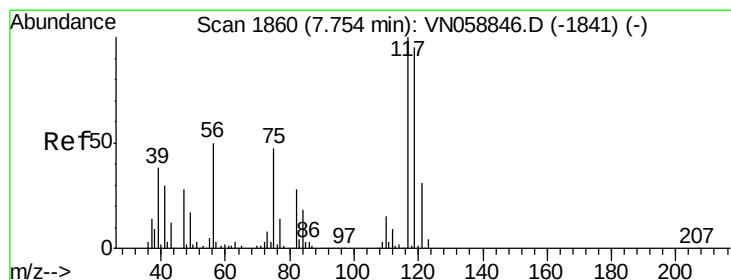
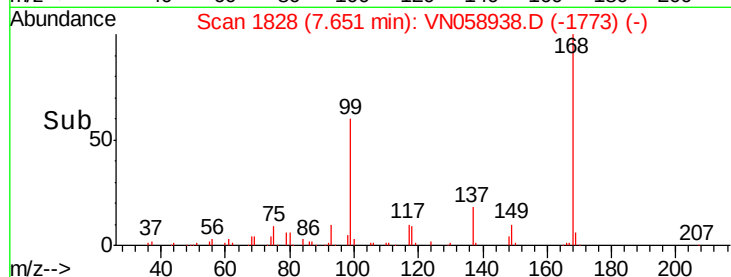
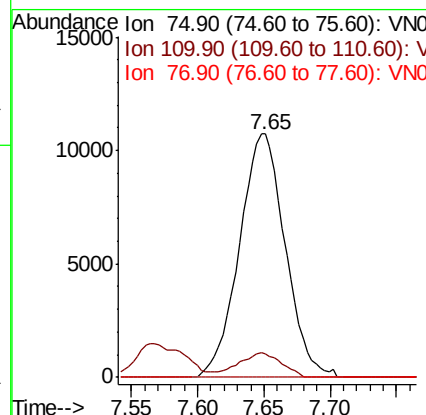
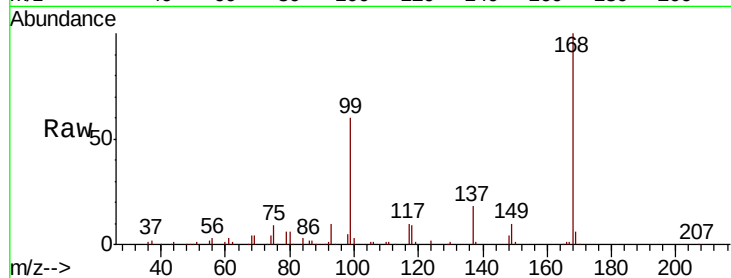




#36
 1,1-Dichloropropene
 Concen: 4.926 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN058938.D
 Acq: 23 Oct 2019 18:20

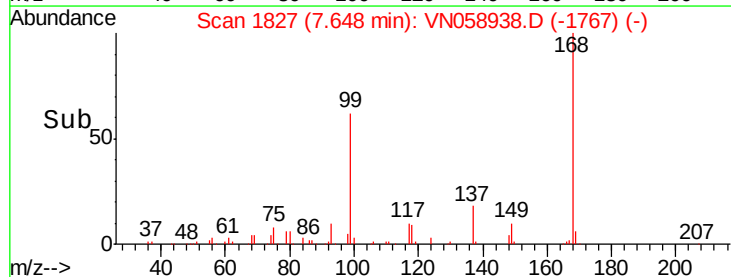
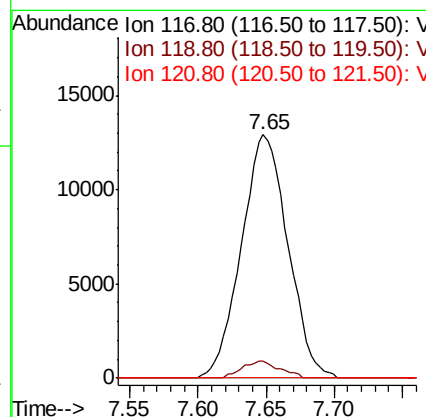
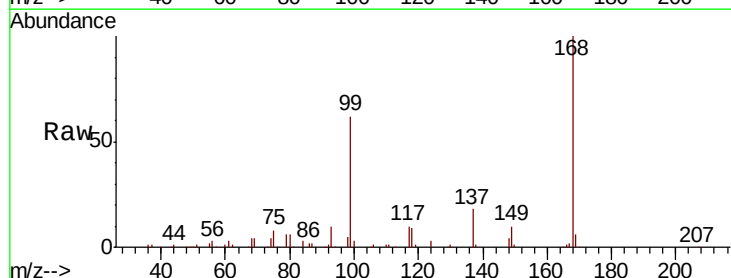
Instrument :
 MSVOA_N
 ClientSampled :

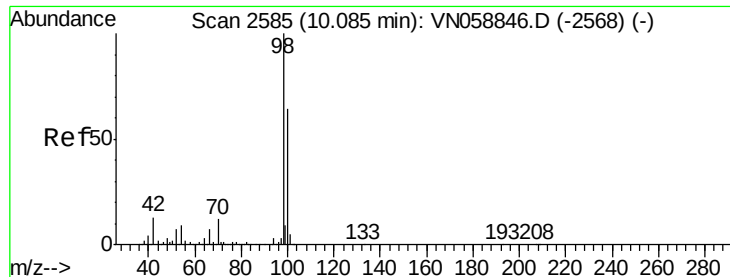
Tot Ion	75	Resp	25758
Ion Ratio	Lower	Upper	
75	100		
110	9.5	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.670 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058938.D
 Acq: 23 Oct 2019 18:20

Tgt Ion	117	Resp	30543
Ion Ratio	Lower	Upper	
117	100		
119	7.2	75.7	113.5#
121	0.0	25.0	37.6#





#50

Toluene-d8

Concen: 47.364 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :

MSVOA_N

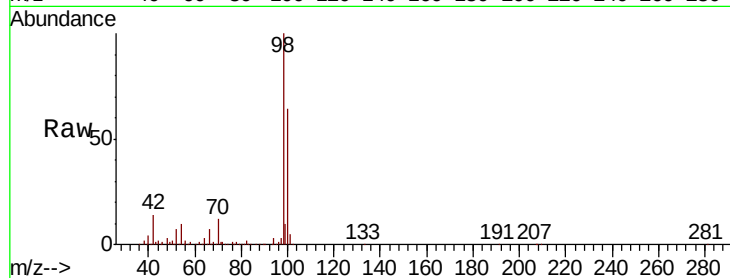
ClientSampleId :

Tot Ion: 98 Resp: 617374

Ion Ratio Lower Upper

98 100

100 63.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

300000

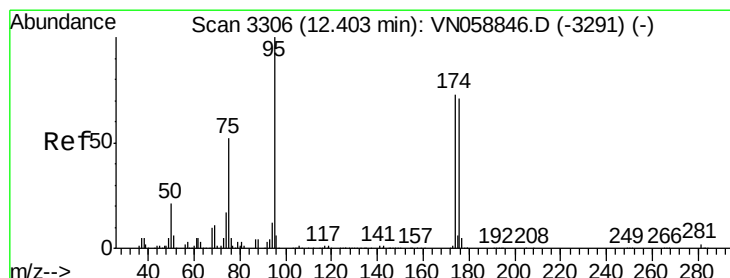
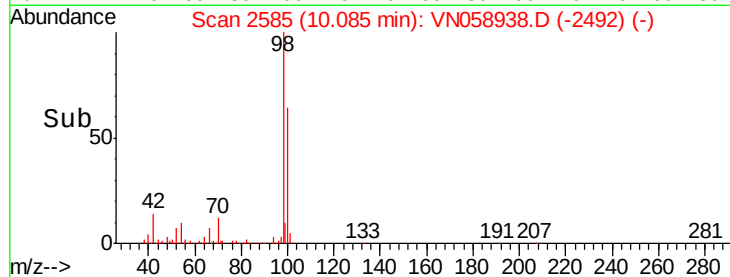
200000

100000

0

Time-->

10.00 10.10 10.20



#62

4-Bromofluorobenzene

Concen: 41.685 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

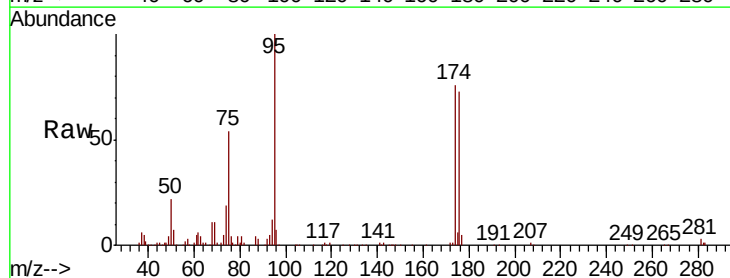
Tgt Ion: 95 Resp: 199535

Ion Ratio Lower Upper

95 100

174 77.0 0.0 147.6

176 75.7 0.0 143.2



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

12.40

150000

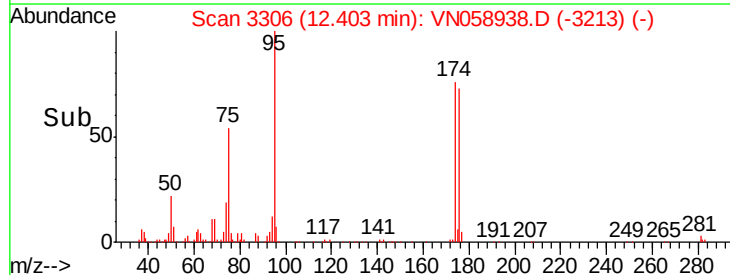
100000

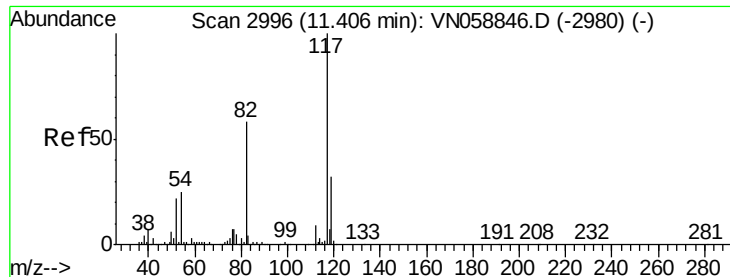
50000

0

Time-->

12.30 12.40 12.50

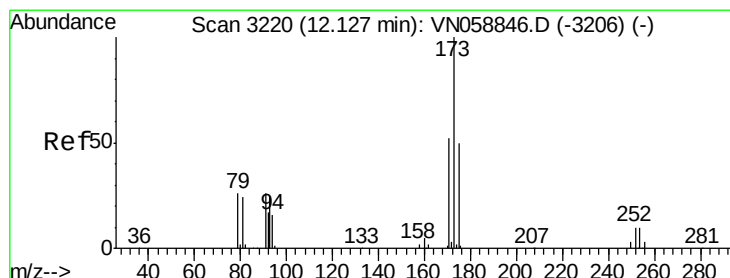
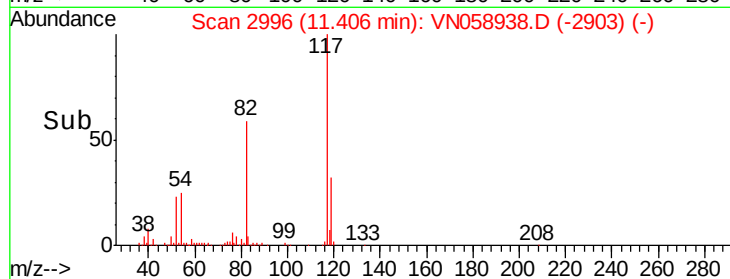
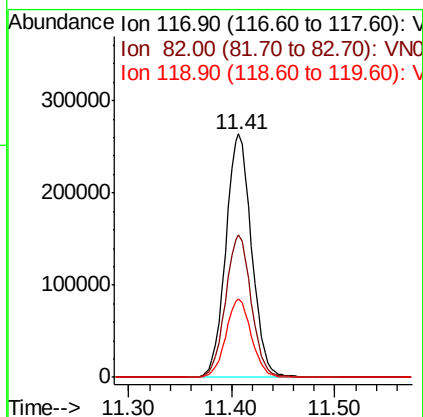
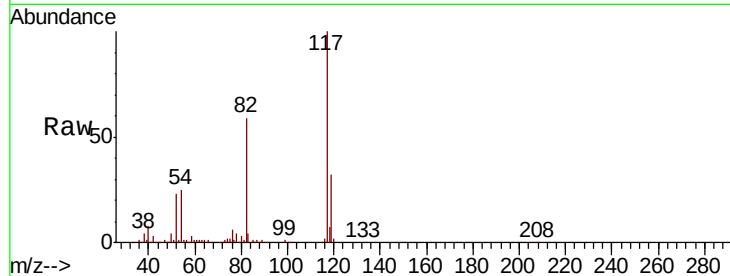




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058938.D
Acq: 23 Oct 2019 18:20

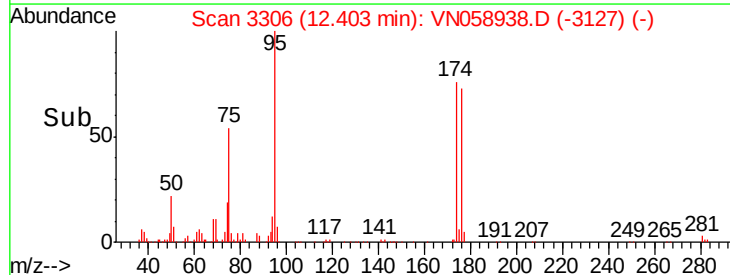
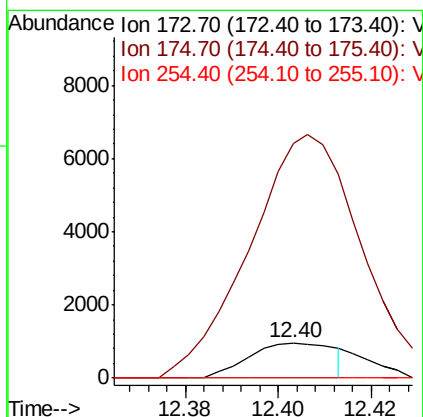
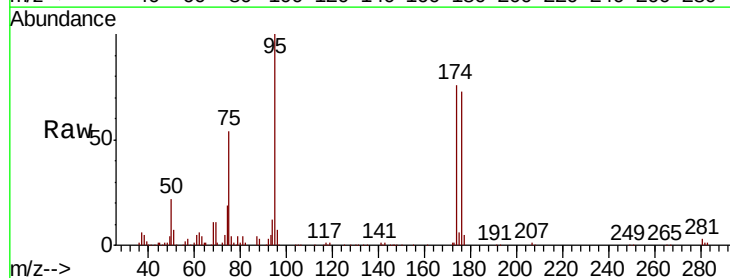
Instrument :
MSVOA_N
ClientSampleId :

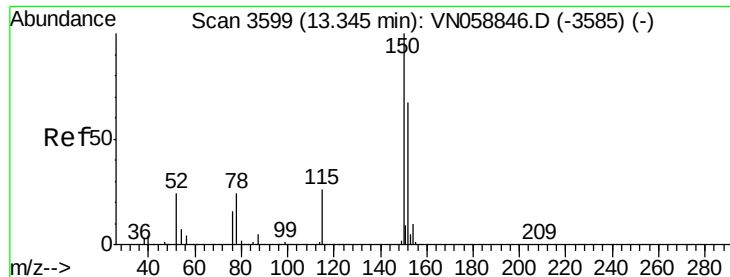
Tot Ion:117 Resp: 459397
Ion Ratio Lower Upper
117 100
82 58.6 46.6 69.8
119 32.0 25.6 38.4



#71
Bromoform
Concen: 0.456 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN058938.D
Acq: 23 Oct 2019 18:20

Tgt Ion:173 Resp: 1247
Ion Ratio Lower Upper
173 100
175 698.9 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :

MSVOA_N

ClientSampleId :

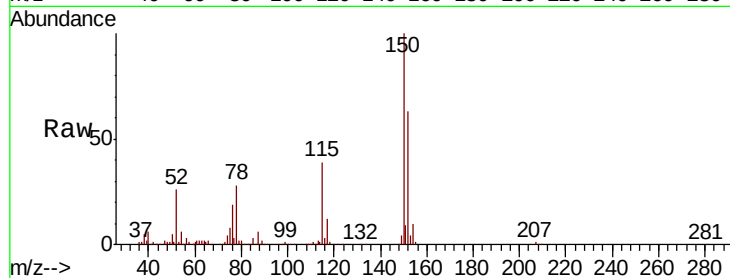
Tot Ion:152 Resp: 170364

Ion Ratio Lower Upper

152 100

115 61.3 30.5 91.5

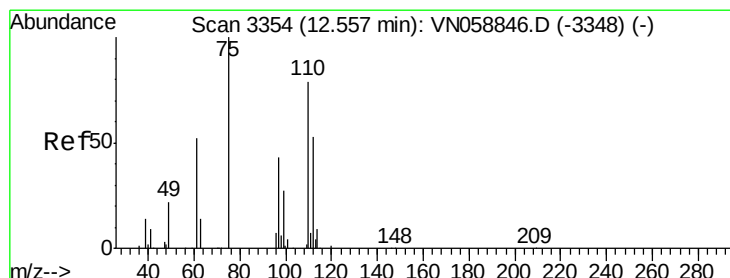
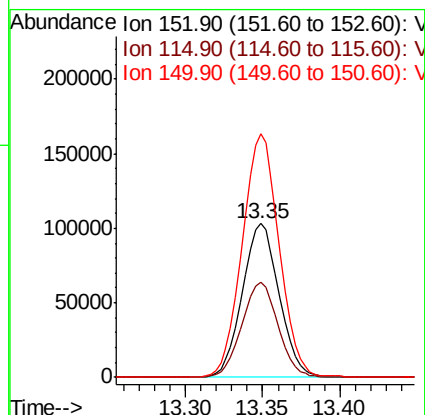
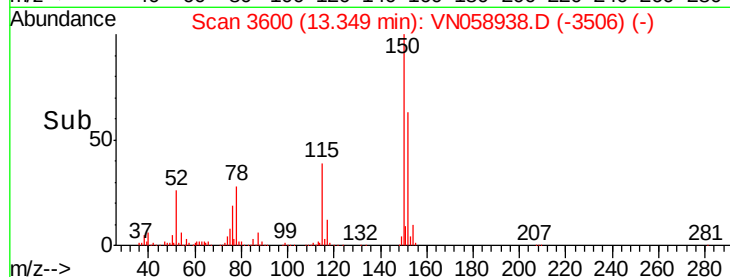
150 159.0 0.0 344.4



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: 27.259 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058938.D

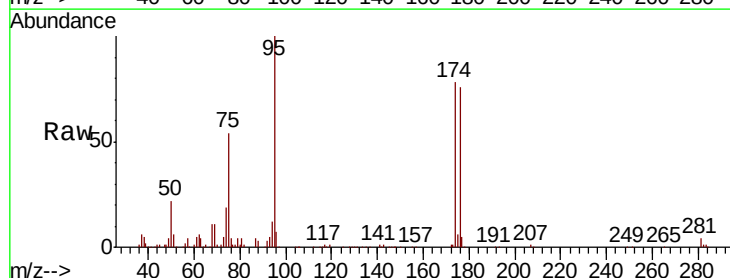
Acq: 23 Oct 2019 18:20

Tgt Ion: 75 Resp: 107629

Ion Ratio Lower Upper

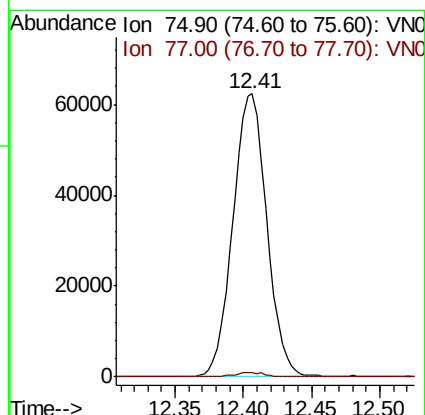
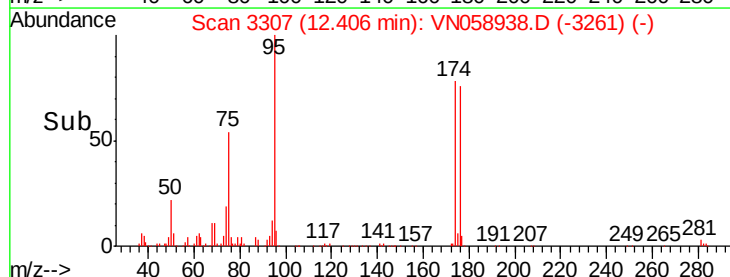
75 100

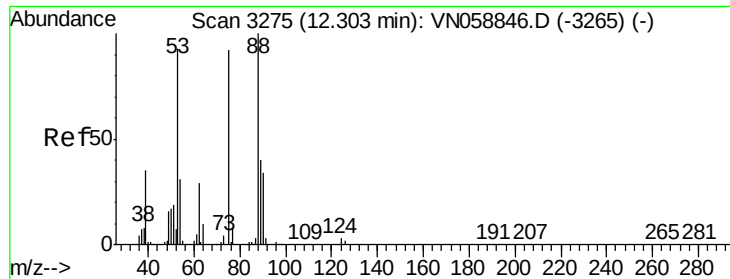
77 1.3 0.0 0.0#



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: 71.012 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

Instrument :

MSVOA_N

ClientSampled :

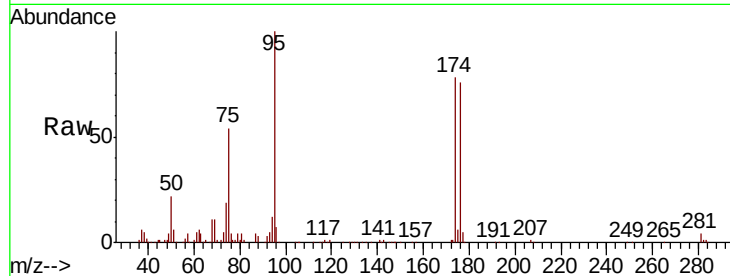
Tot Ion: 75 Resp: 107629

Ion Ratio Lower Upper

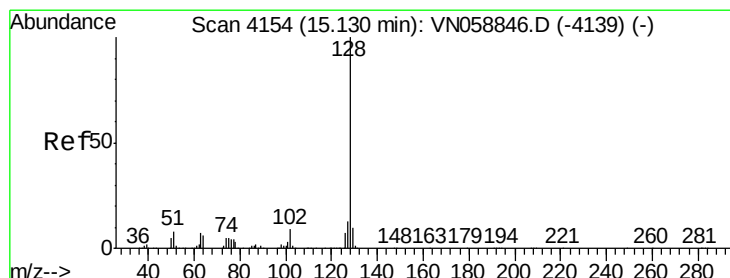
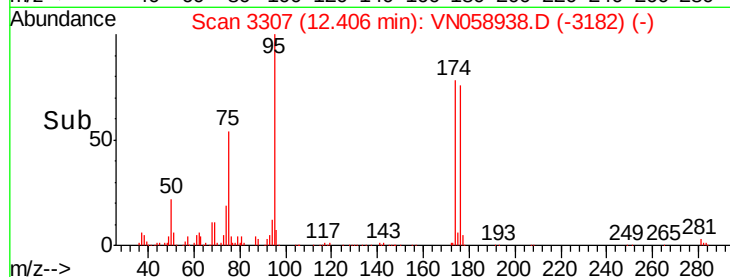
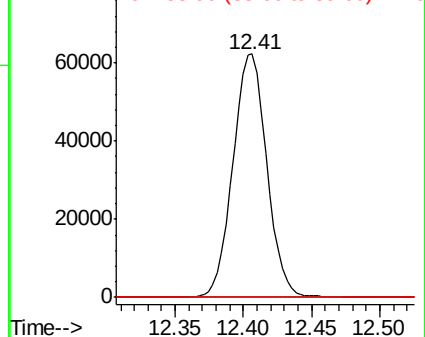
75 100

53 0.0 78.6 118.0#

89 0.0 35.4 53.0#



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: 2.255 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN058938.D

Acq: 23 Oct 2019 18:20

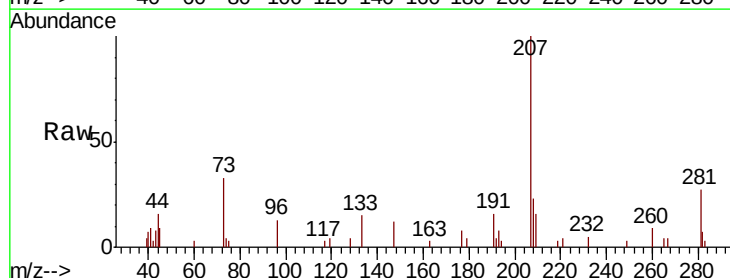
Tgt Ion: 128 Resp: 306

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



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

