

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061398.D
 Acq On : 14 May 2020 17:20
 Operator : JC/MD
 Sample : VN0514WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 15 05:51:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	18958	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	110702	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	95930	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	52590	30.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.27%
60) 4-Bromofluorobenzene	12.38	95	44321	27.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.20%
63) Toluene-d8	10.06	98	140930	31.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.77%

Target Compounds

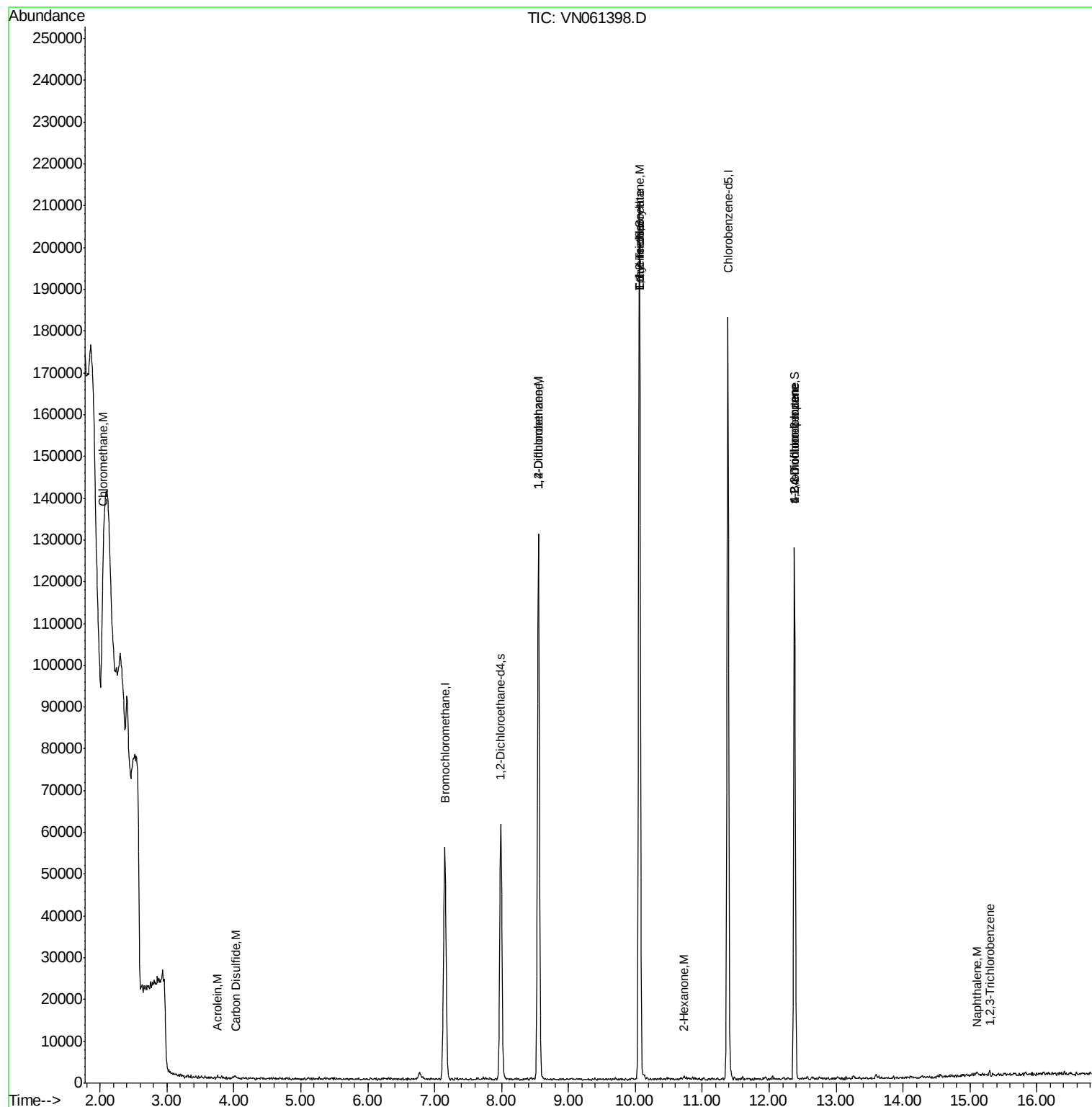
					Ovalue	
3) Chloromethane	2.04	50	487	0.309	ug/l #	81
13) Acrolein	3.76	56	107	0.514	ug/l	87
16) Carbon Disulfide	4.01	76	824	0.288	ug/l #	75
36) 1,2-Dichloroethane	8.55	62	4472	2.120	ug/l #	77
50) 1,1,2-Trichloroethane	10.07	97	4621	3.581	ug/l #	1
51) Ethyl methacrylate	10.06	69	600	0.270	ug/l #	84
59) 2-Hexanone	10.73	43	589	0.476	ug/l #	35
72) 1,2,3-Trichloropropane	12.38	75	25356	15.787	ug/l	1
77) t-1,4-Dichloro-2-butene	12.38	75	25356	37.931	ug/l #	10
91) Naphthalene	15.11	128	1552	0.385	ug/l #	69
92) 1,2,3-Trichlorobenzene	15.30	180	302	0.242	ug/l #	56

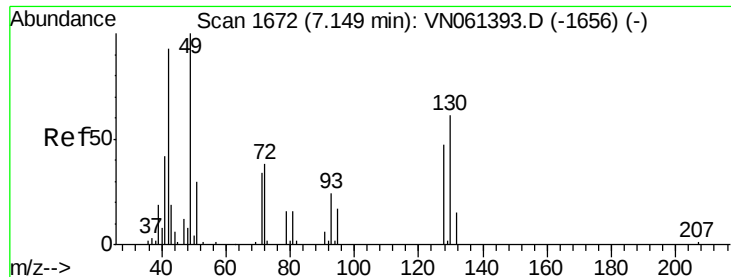
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: May 15 05:51:59 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 14 16:04:10 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

Instrument :
MSVOA_N
ClientSampled :

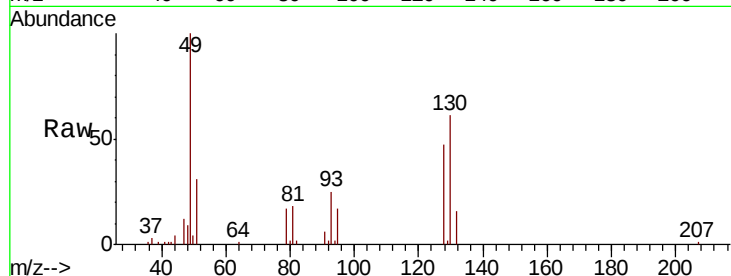
Tot Ion:128 Resp: 18958

Ion Ratio Lower Upper

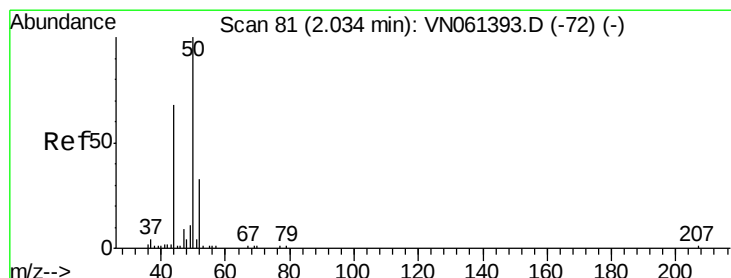
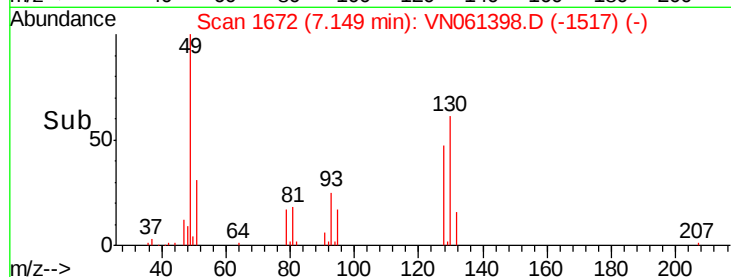
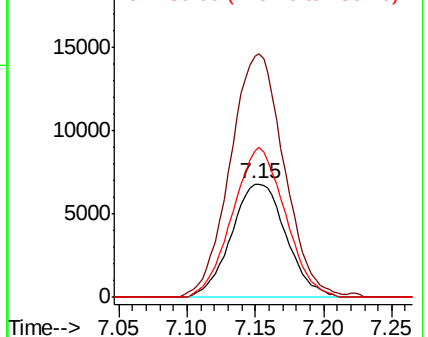
128 100

49 212.2 0.0 453.5

130 127.5 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.309 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061398.D

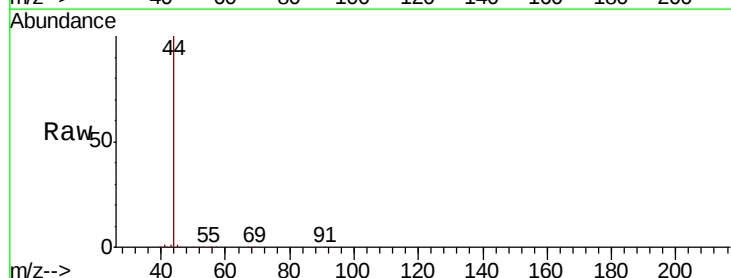
Acq: 14 May 2020 17:20

Tgt Ion: 50 Resp: 487

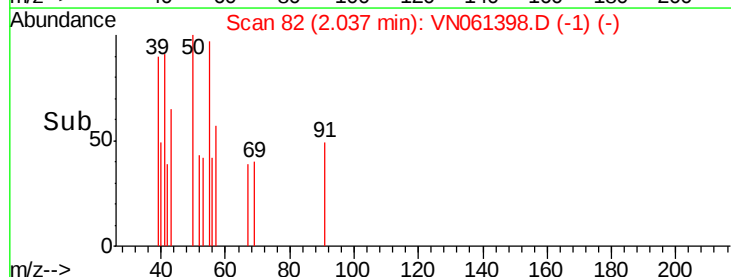
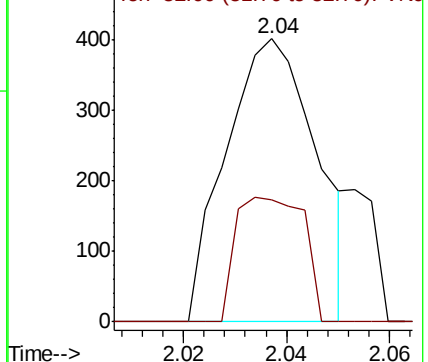
Ion Ratio Lower Upper

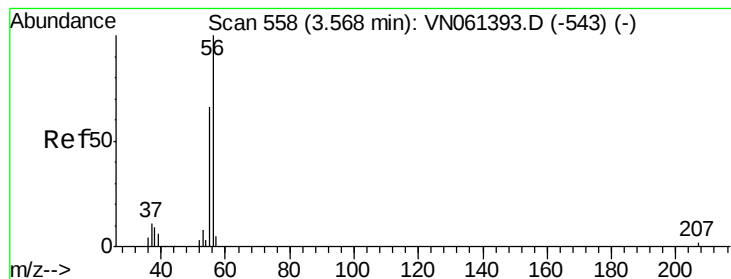
50 100

52 43.1 25.8 38.8#



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#13

Acrolein

Concen: 0.514 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.19 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

Instrument :

MSVOA_N

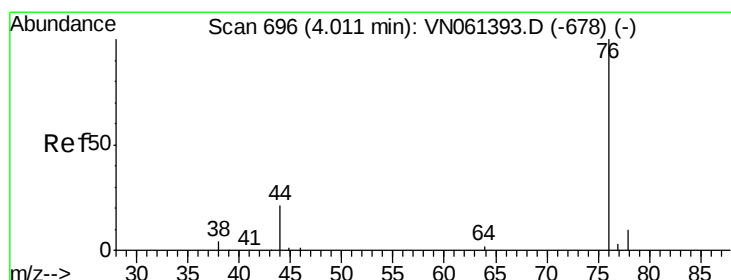
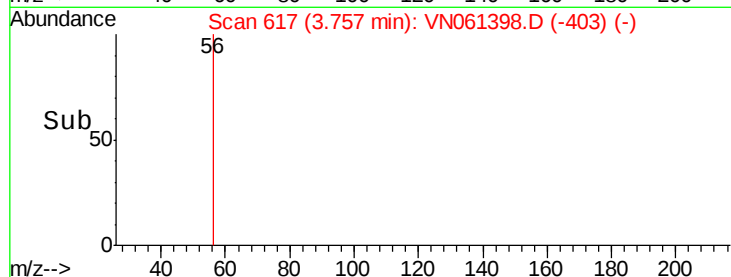
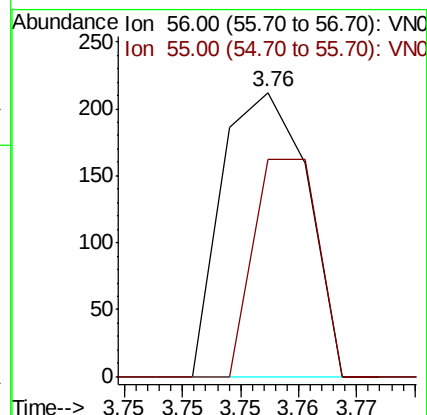
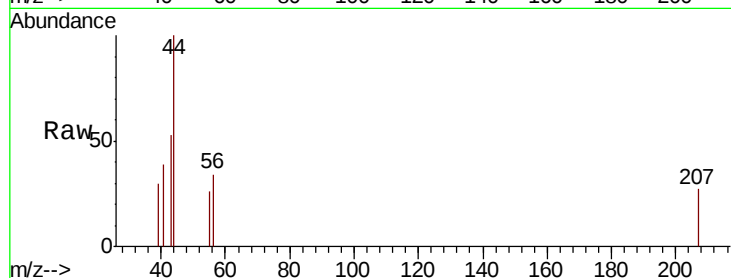
ClientSampleId :

Tot Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 58.9 55.9 83.9



#16

Carbon Disulfide

Concen: 0.288 ug/l

RT: 4.01 min Scan# 697

Delta R.T. 0.00 min

Lab File: VN061398.D

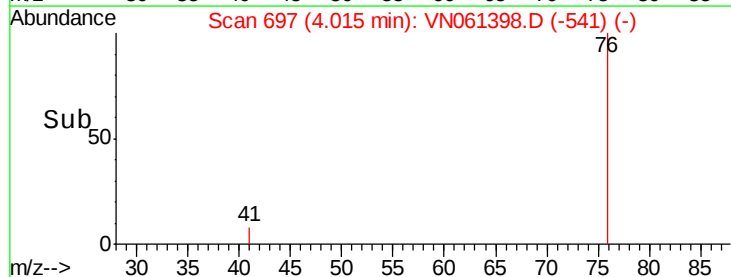
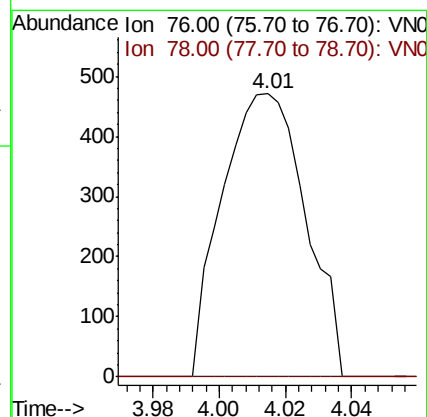
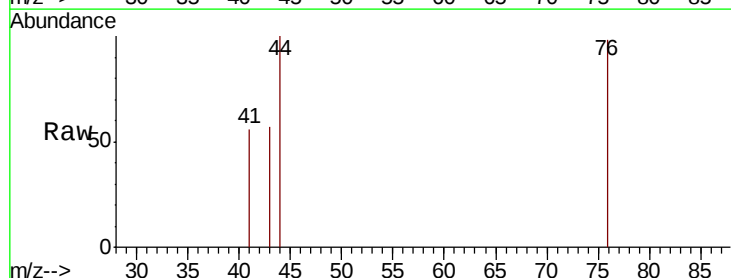
Acq: 14 May 2020 17:20

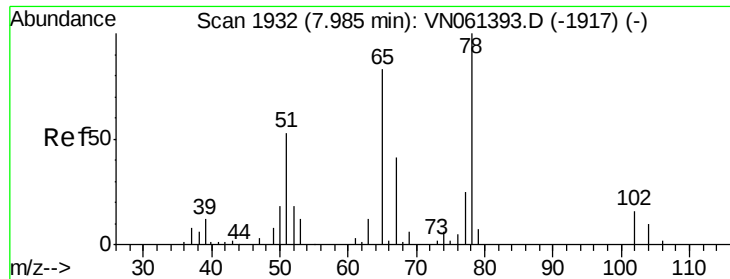
Tgt Ion: 76 Resp: 824

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#

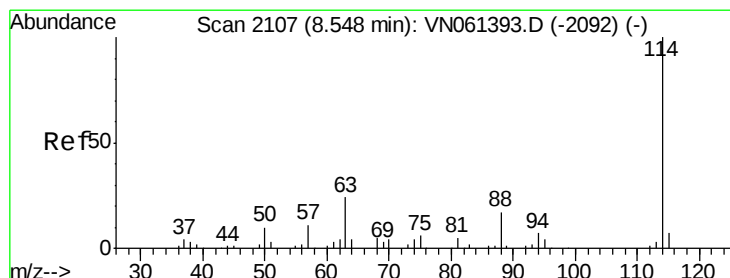
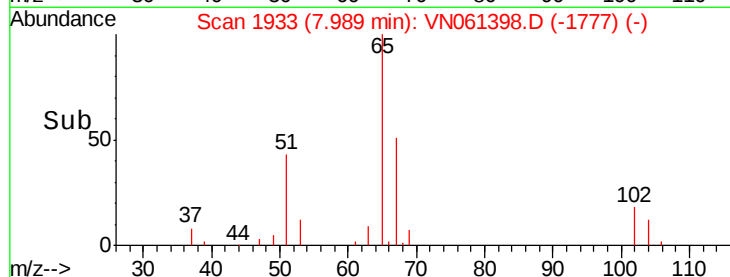
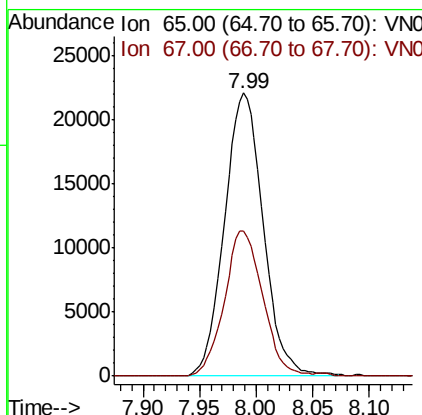
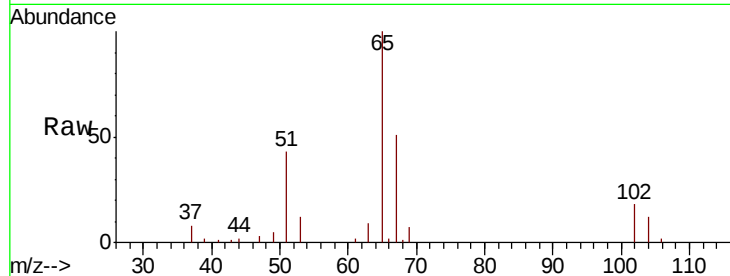




#27
 1,2-Dichloroethane-d4
 Concen: 30.977 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061398.D
 Acq: 14 May 2020 17:20

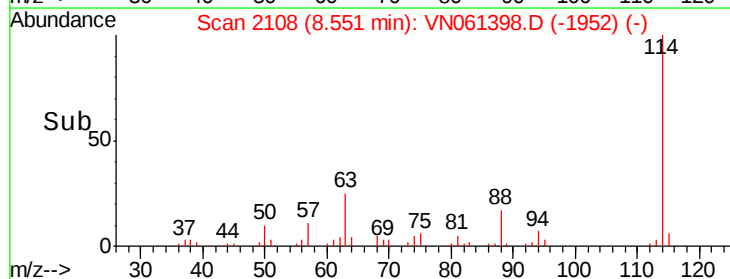
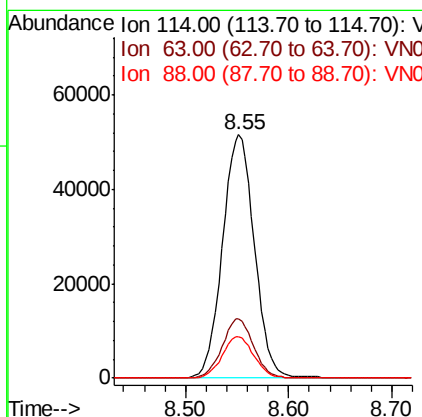
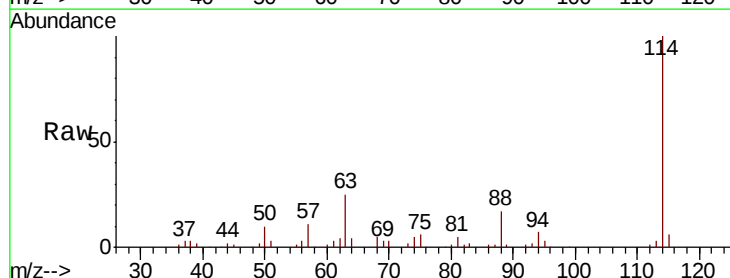
Instrument :
 MSVOA_N
 ClientSampled :

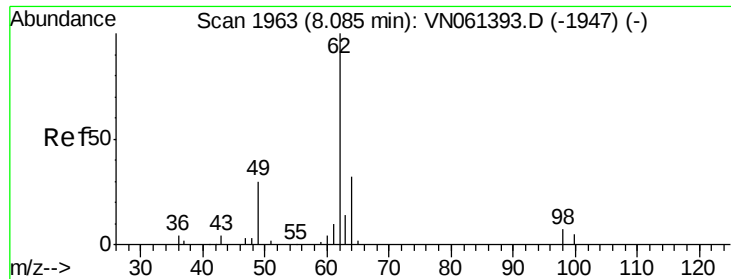
Tot Ion: 65 Resp: 52590
 Ion Ratio Lower Upper
 65 100
 67 50.8 41.5 62.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061398.D
 Acq: 14 May 2020 17:20

Tgt Ion: 114 Resp: 110702
 Ion Ratio Lower Upper
 114 100
 63 23.8 18.1 27.1
 88 16.8 13.0 19.4

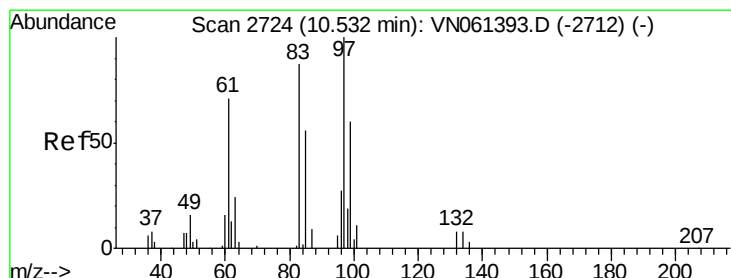
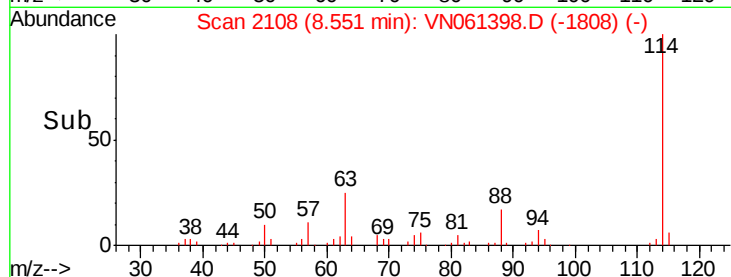
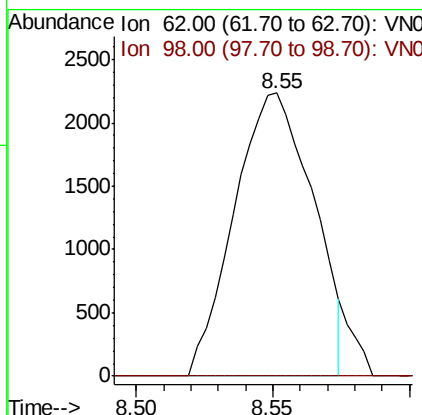
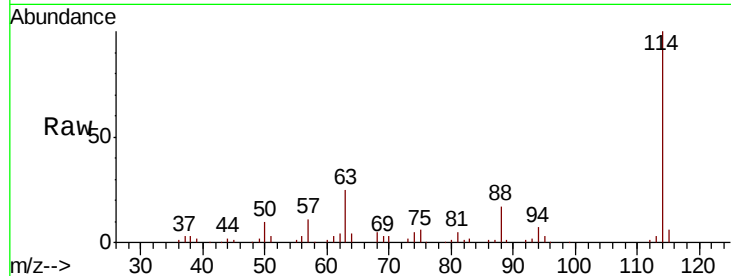




#36
 1,2-Dichloroethane
 Concen: 2.120 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.47 min
 Lab File: VN061398.D
 Acq: 14 May 2020 17:20

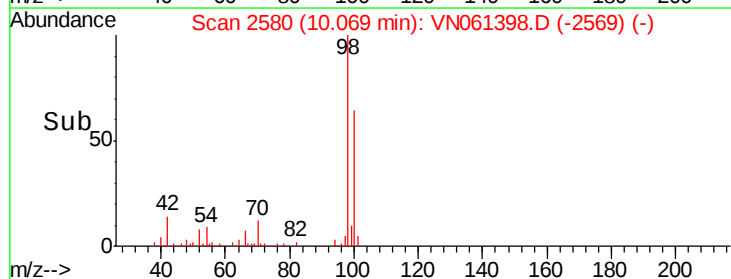
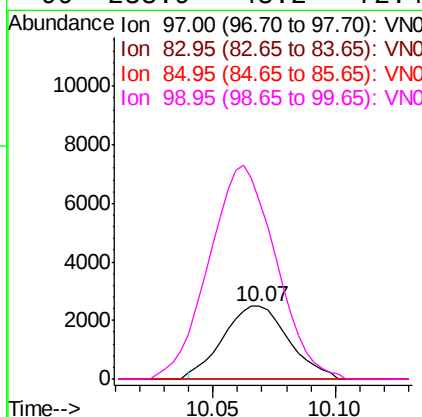
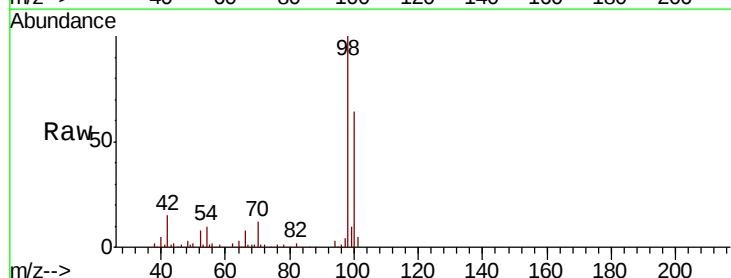
Instrument :
 MSVOA_N
 ClientSampleId :

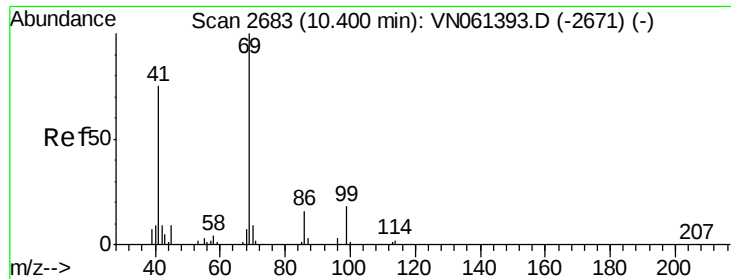
Tot Ion: 62 Resp: 4472
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.4 9.6#



#50
 1,1,2-Trichloroethane
 Concen: 3.581 ug/l
 RT: 10.07 min Scan# 2580
 Delta R.T. -0.46 min
 Lab File: VN061398.D
 Acq: 14 May 2020 17:20

Tgt Ion: 97 Resp: 4621
 Ion Ratio Lower Upper
 97 100
 83 0.0 70.7 106.1#
 85 0.0 45.1 67.7#
 99 238.9 48.2 72.4#





#51

Ethyl methacrylate

Concen: 0.270 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.34 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

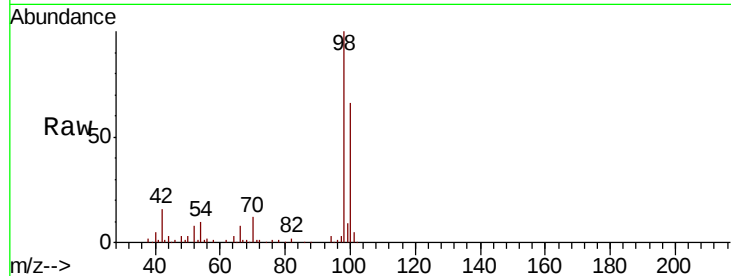
Tot Ion: 69 Resp: 600

Ion Ratio Lower Upper

69 100

41 69.8 34.7 104.1

39 67.7 20.3 60.8#

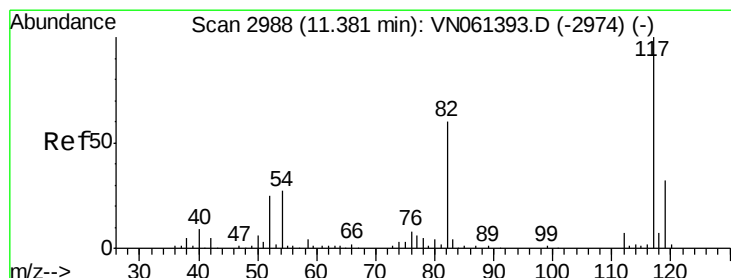
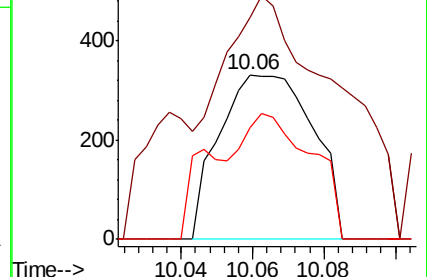
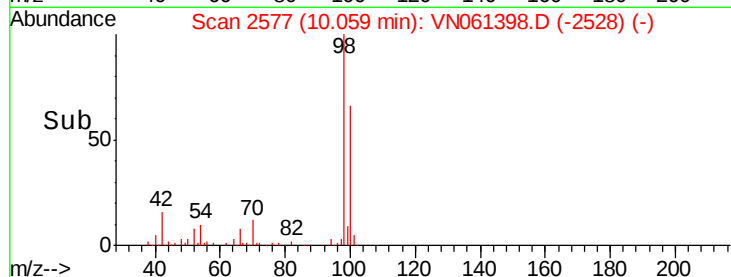


Abundance Ion 69.00 (68.70 to 69.70): VN061393.D (-2671) (-)

Ion 41.00 (40.70 to 41.70): VN061393.D (-2671) (-)

Ion 39.00 (38.70 to 39.70): VN061393.D (-2671) (-)

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

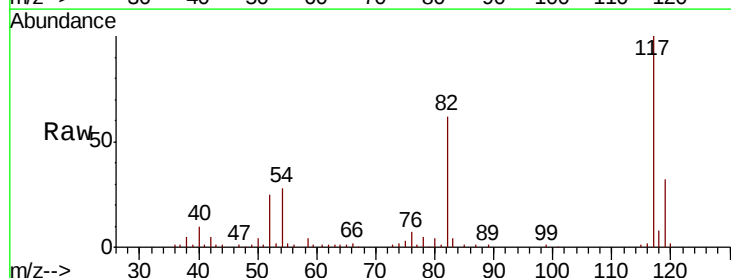
Tgt Ion: 117 Resp: 95930

Ion Ratio Lower Upper

117 100

82 61.2 46.9 70.3

119 31.8 25.8 38.6

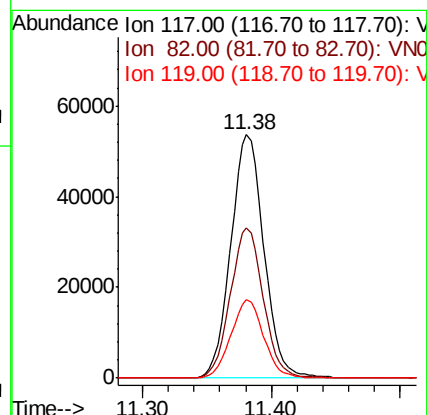
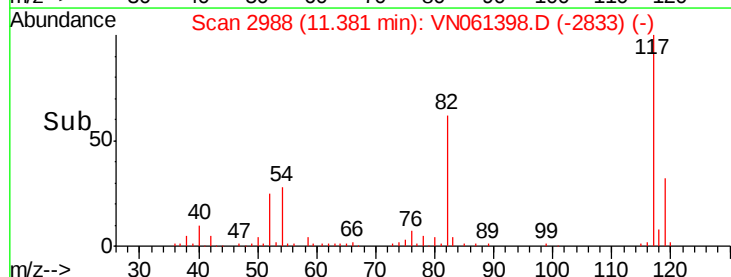


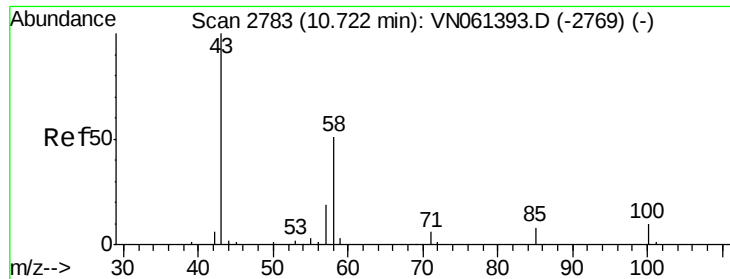
Abundance Ion 117.00 (116.70 to 117.70): VN061398.D (-2833) (-)

Ion 82.00 (81.70 to 82.70): VN061398.D (-2833) (-)

Ion 119.00 (118.70 to 119.70): VN061398.D (-2833) (-)

Time-->





#59

2-Hexanone

Concen: 0.476 ug/l

RT: 10.73 min Scan# 2786

Delta R.T. 0.01 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

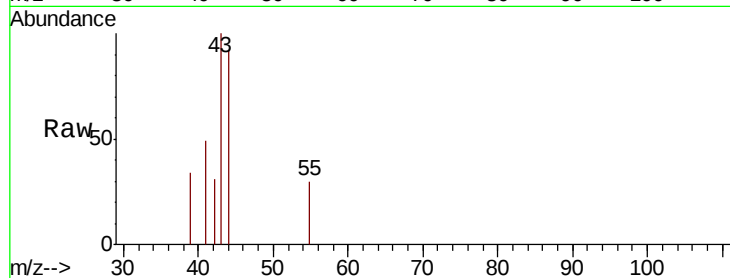
Tot Ion: 43 Resp: 589

Ion Ratio Lower Upper

43 100

58 0.0 41.4 62.0#

57 0.0 14.7 22.1#



Abundance Ion 43.00 (42.70 to 43.70): VN061398.D (-2769) (-)

Ion 58.00 (57.70 to 58.70): VN061398.D (-2769) (-)

Ion 57.00 (56.70 to 57.70): VN061398.D (-2769) (-)

10.73

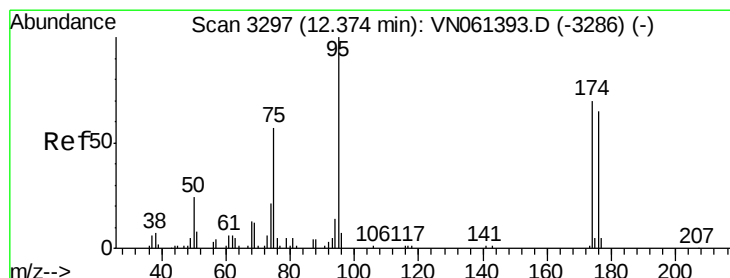
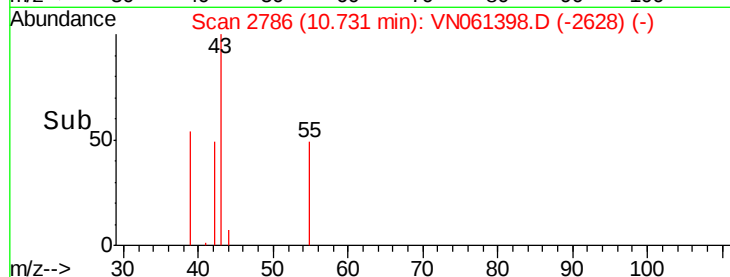
400

200

0

10.70 10.75

Time-->



#60

4-Bromofluorobenzene

Concen: 27.062 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

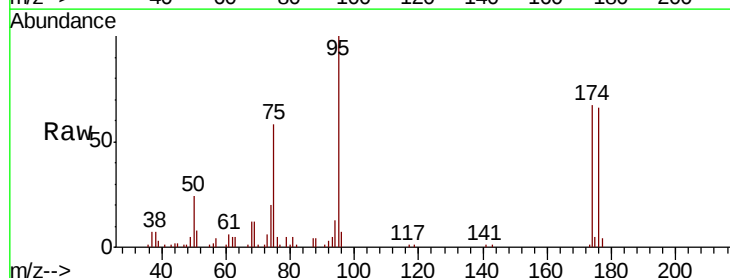
Tgt Ion: 95 Resp: 44321

Ion Ratio Lower Upper

95 100

174 66.5 59.9 89.9

176 64.7 58.3 87.5



Abundance Ion 95.00 (94.70 to 95.70): VN061398.D (-3286) (-)

Ion 174.00 (173.70 to 174.70): VN061398.D (-3286) (-)

Ion 176.00 (175.70 to 176.70): VN061398.D (-3286) (-)

12.38

30000

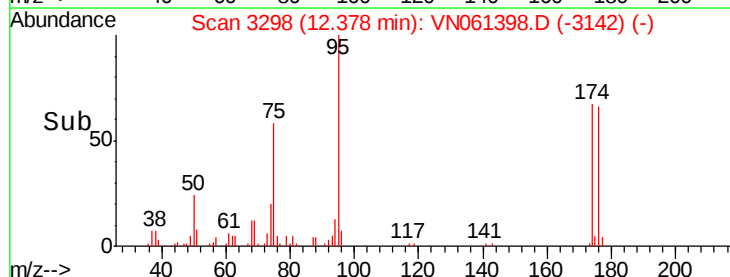
20000

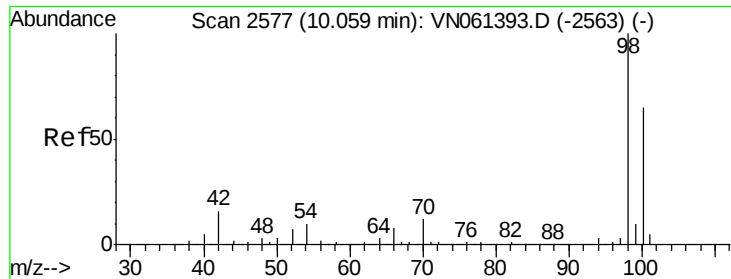
10000

0

12.30 12.35 12.40 12.45

Time-->





#63

Toluene-d8

Concen: 31.729 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

Instrument :

MSVOA_N

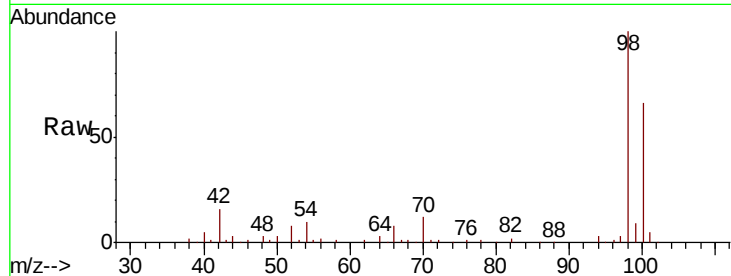
ClientSampleId :

Tot Ion: 98 Resp: 140930

Ion Ratio Lower Upper

98 100

100 64.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN061393.D (-2563) (-)

Ion 100.00 (99.70 to 100.70): VN061393.D (-2563) (-)

10.06

80000

60000

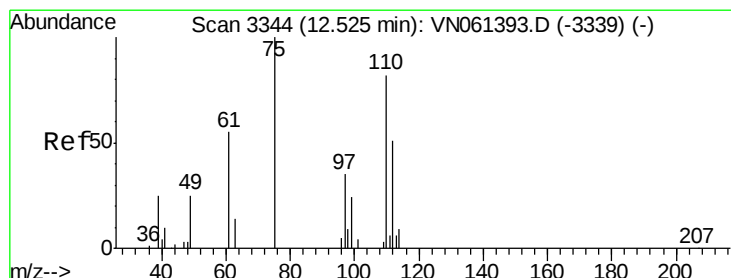
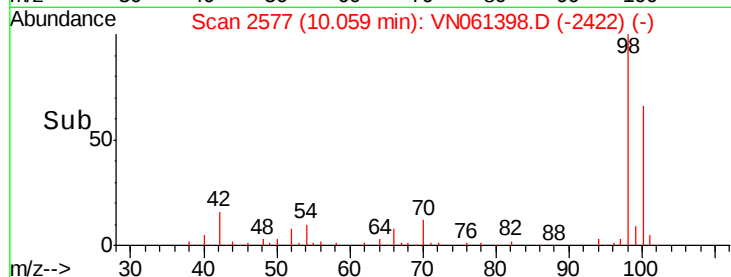
40000

20000

0

Time-->

10.00 10.10



#72

1,2,3-Trichloropropane

Concen: 15.787 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061398.D

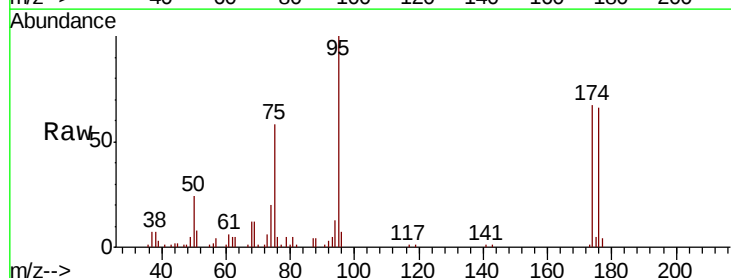
Acq: 14 May 2020 17:20

Tgt Ion: 75 Resp: 25356

Ion Ratio Lower Upper

75 100

77 0.4 0.0 359.4



Abundance Ion 75.00 (74.70 to 75.70): VN061393.D (-3339) (-)

Ion 77.00 (76.70 to 77.70): VN061393.D (-3339) (-)

12.38

15000

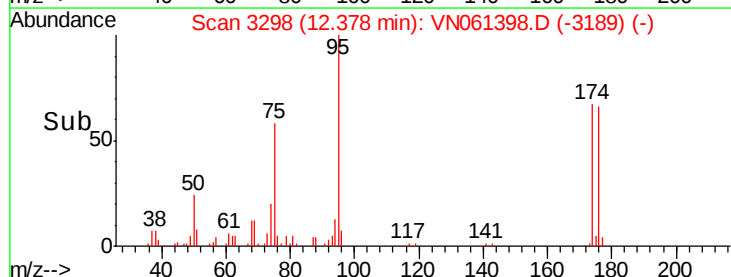
10000

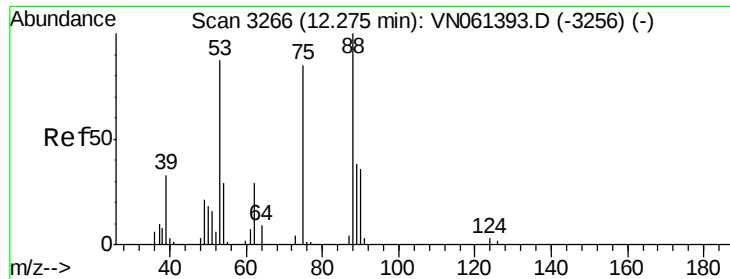
5000

0

Time-->

12.35 12.40





#77

t-1,4-Dichloro-2-butene

Concen: 37.931 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

Instrument :

MSVOA_N

ClientSampleId :

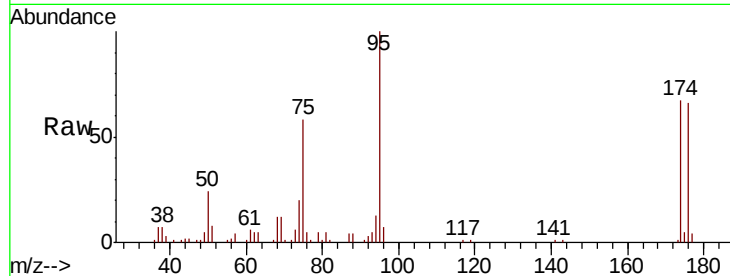
Tot Ion: 75 Resp: 25356

Ion Ratio Lower Upper

75 100

53 0.0 50.0 150.0#

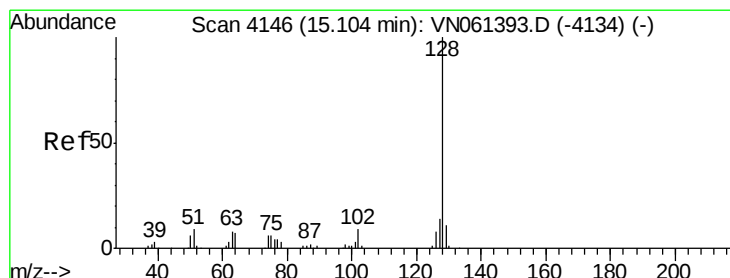
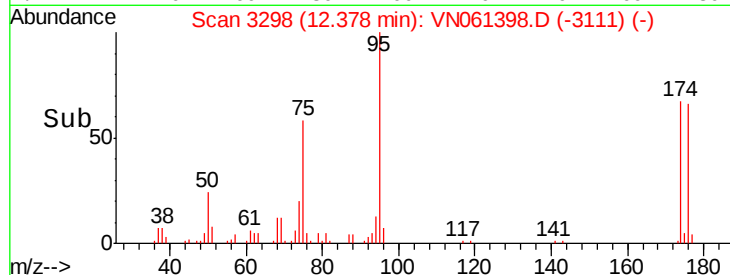
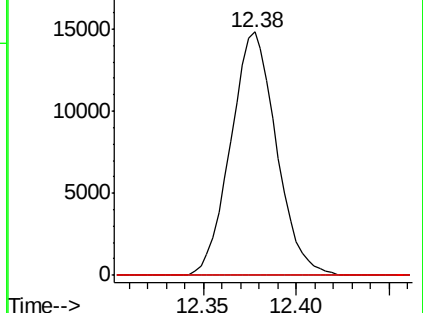
89 0.0 20.7 62.1#



Abundance Ion 75.00 (74.70 to 75.70): VN061393.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061393.D (-3256) (-)

Ion 89.00 (88.70 to 89.70): VN061393.D (-3256) (-)



#91

Naphthalene

Concen: 0.385 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061398.D

Acq: 14 May 2020 17:20

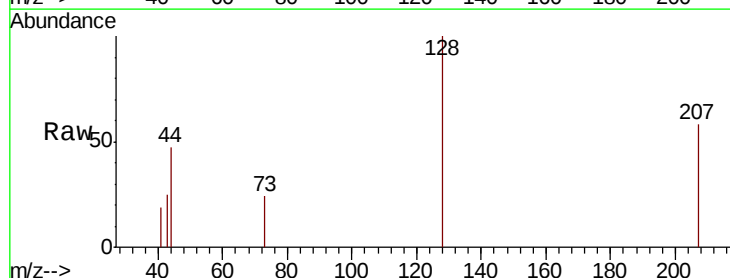
Tgt Ion: 128 Resp: 1552

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

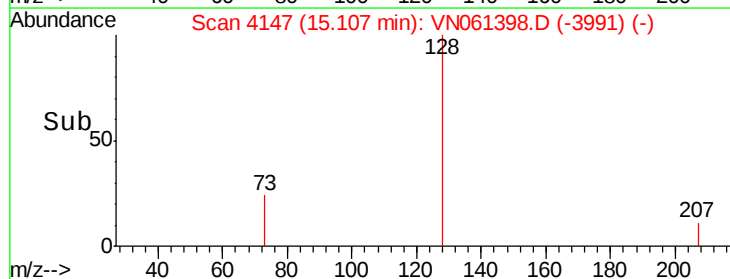
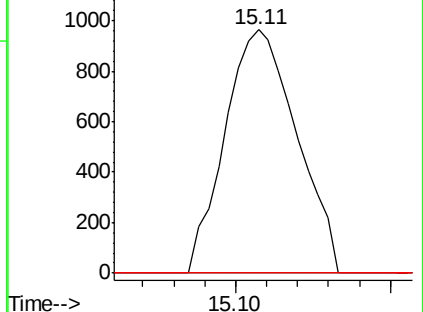
129 0.0 8.6 13.0#

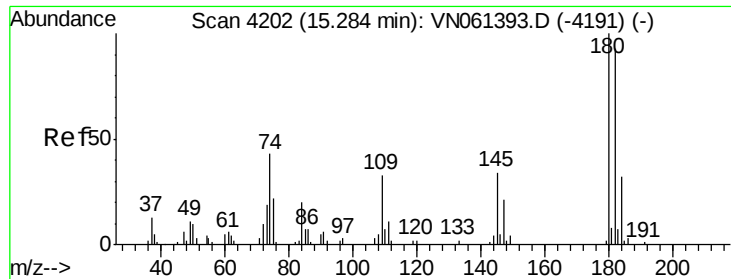


Abundance Ion 128.00 (127.70 to 128.70): VN061393.D (-4134) (-)

Ion 127.00 (126.70 to 127.70): VN061393.D (-4134) (-)

Ion 129.00 (128.70 to 129.70): VN061393.D (-4134) (-)

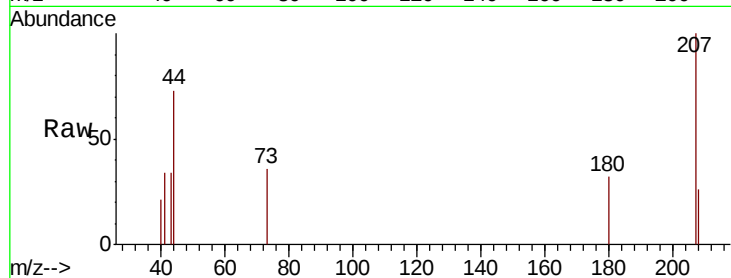




#92
 1,2,3-Trichlorobenzene
 Concen: 0.242 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.01 min
 Lab File: VN061398.D
 Acq: 14 May 2020 17:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 302
 Ion Ratio Lower Upper
 180 100
 182 57.9 0.0 193.4
 145 0.0 0.0 65.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

