

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112918\
 Data File : VN052583.D
 Acq On : 30 Nov 2018 00:11
 Operator : MD\SY
 Sample : J6144-01DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1DL

Quant Time: Nov 30 04:03:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	172799	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	978228	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	820158	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	351921	29.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.63%
60) 4-Bromofluorobenzene	12.40	95	324175	25.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.17%
63) Toluene-d8	10.09	98	1134852	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

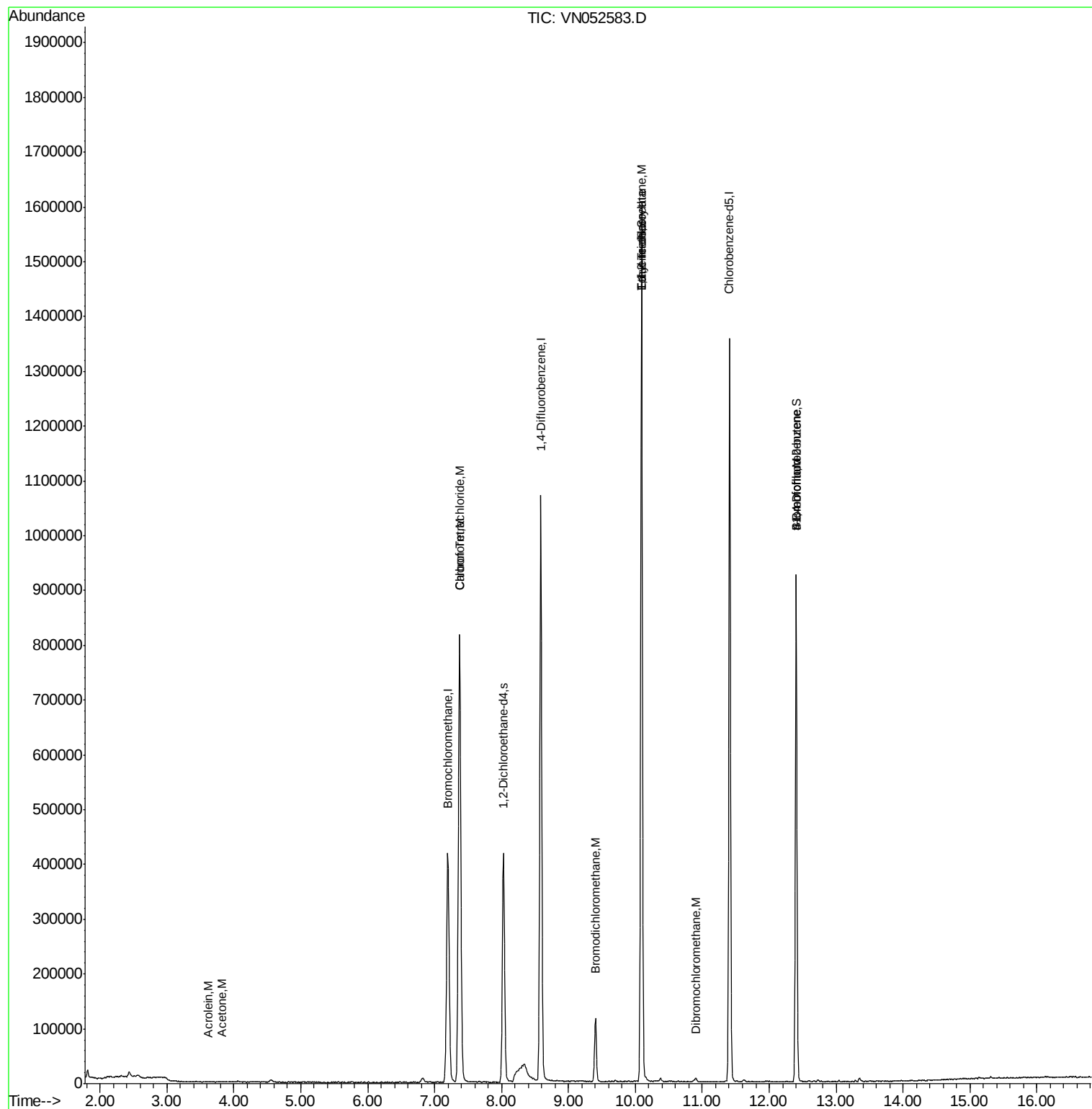
Target Compounds					Ovalue
13) Acrolein	3.61	56	197	0.204 ug/l #	76
15) Acetone	3.82	58	612	0.674 ug/l #	27
25) Chloroform	7.37	83	882495	45.193 ug/l	100
33) Carbon Tetrachloride	7.37	117	10391	0.764 ug/l	90
41) Bromodichloromethane	9.40	83	84203	5.858 ug/l	96
50) 1,1,2-Trichloroethane	10.10	97	33781	3.663 ug/l #	1
51) Ethyl methacrylate	10.10	69	3241	0.280 ug/l	93
53) Dibromochloromethane	10.90	129	3632	0.358 ug/l #	54
56) Bromoform	12.40	173	2378	0.358 ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	154497	55.865 ug/l #	11

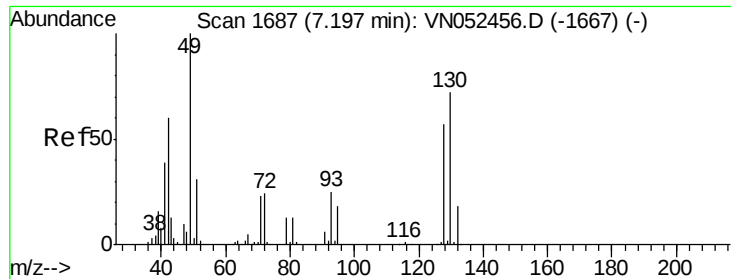
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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14B-1DL

Quant Time: Nov 30 04:03:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

Instrument :

MSVOA_N

ClientSampled :

14B-1DL

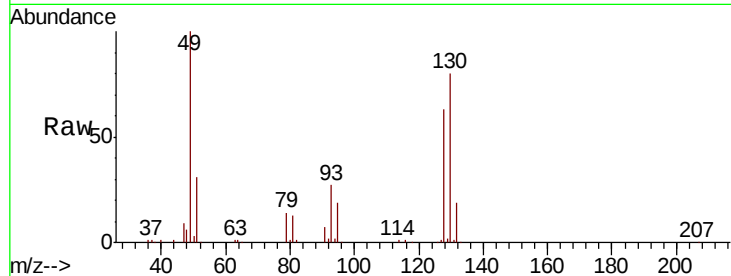
Tot Ion:128 Resp: 172799

Ion Ratio Lower Upper

128 100

49 157.6 0.0 431.8

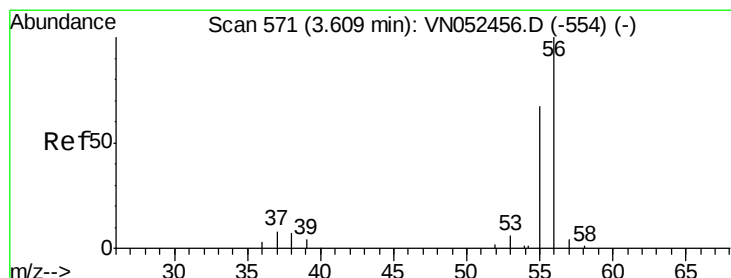
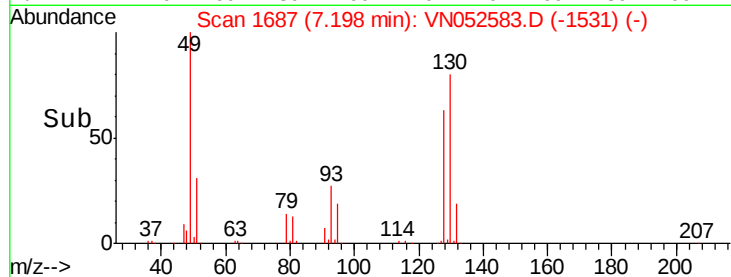
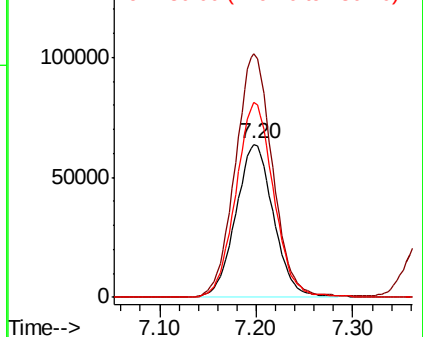
130 126.7 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.204 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052583.D

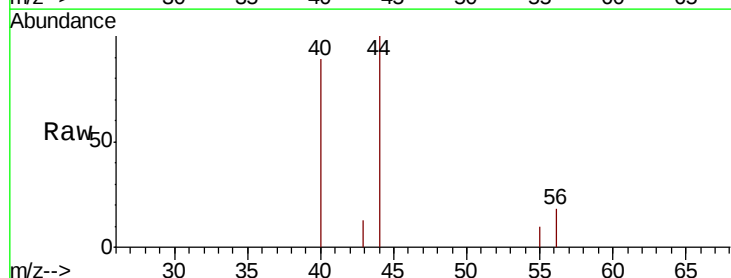
Acq: 30 Nov 2018 00:11

Tgt Ion: 56 Resp: 197

Ion Ratio Lower Upper

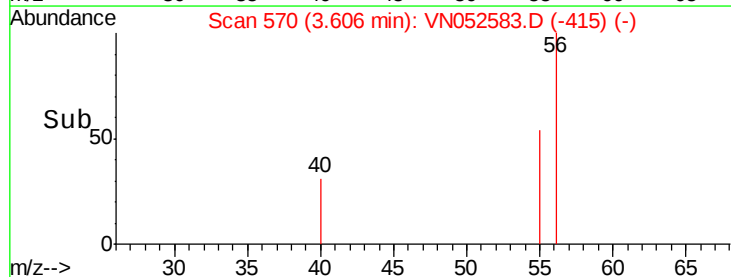
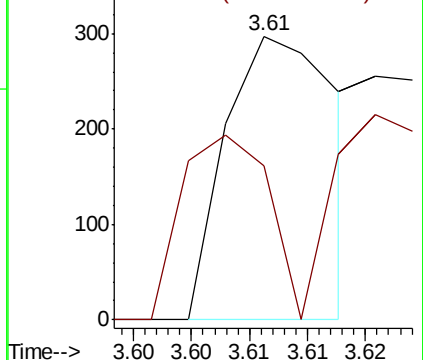
56 100

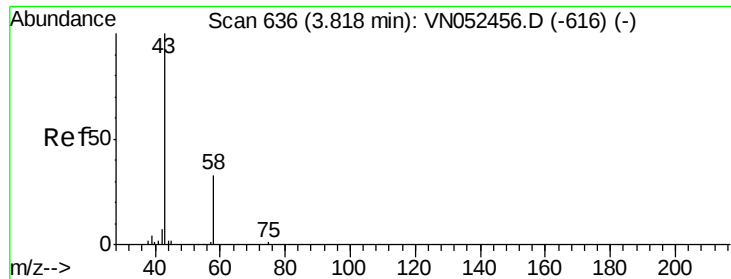
55 51.3 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO





#15

Acetone

Concen: 0.674 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

Instrument :

MSVOA_N

ClientSampleId :

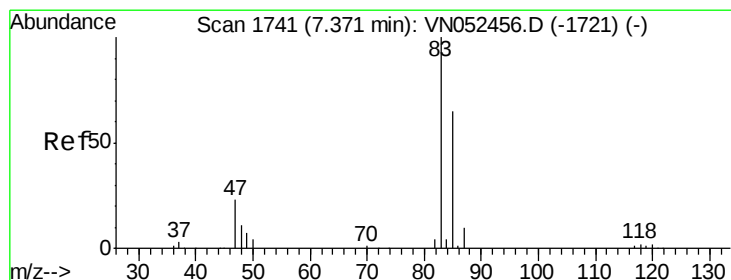
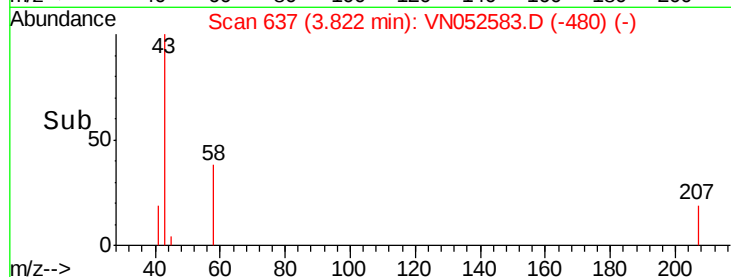
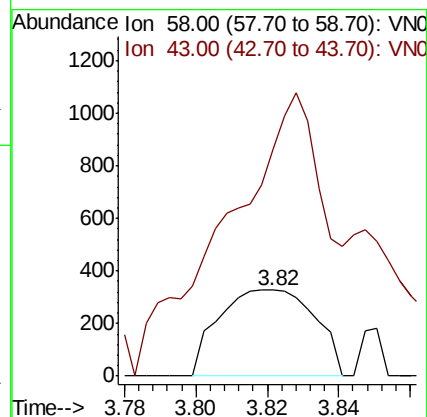
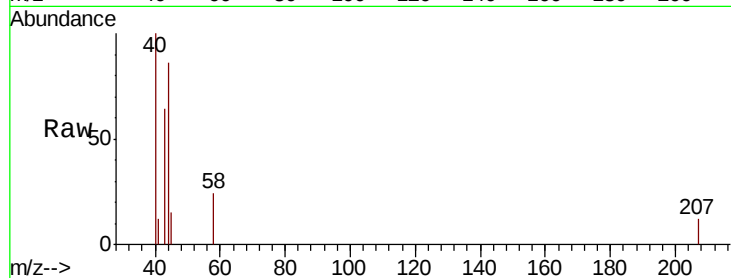
14B-1DL

Tot Ion: 58 Resp: 612

Ion Ratio Lower Upper

58 100

43 159.5 243.6 365.4#



#25

Chloroform

Concen: 45.193 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052583.D

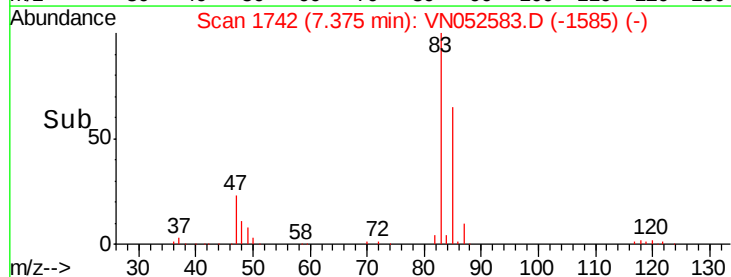
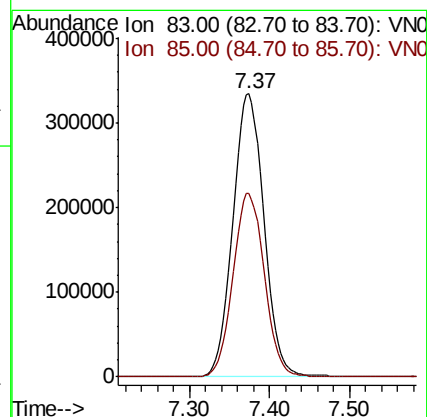
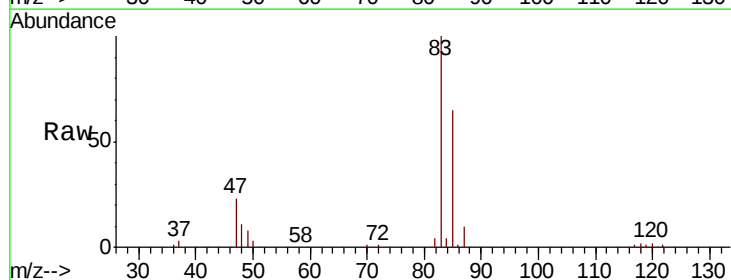
Acq: 30 Nov 2018 00:11

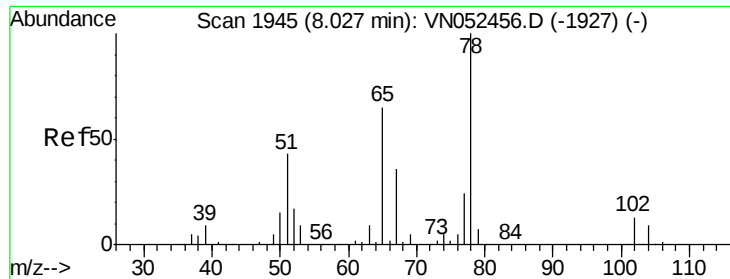
Tgt Ion: 83 Resp: 882495

Ion Ratio Lower Upper

83 100

85 64.7 51.7 77.5





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

Instrument :

MSVOA_N

ClientSampleId :

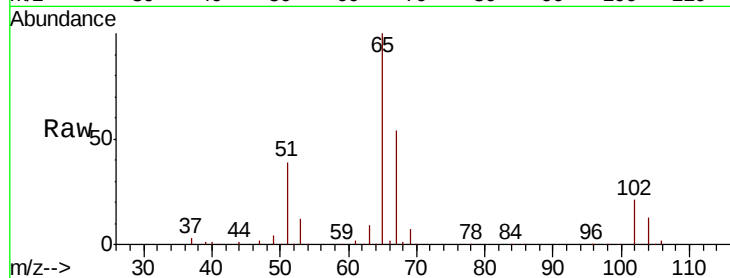
14B-1DL

Tot Ion: 65 Resp: 351921

Ion Ratio Lower Upper

65 100

67 54.7 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN052456.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN052456.D (-1927) (-)

8.03

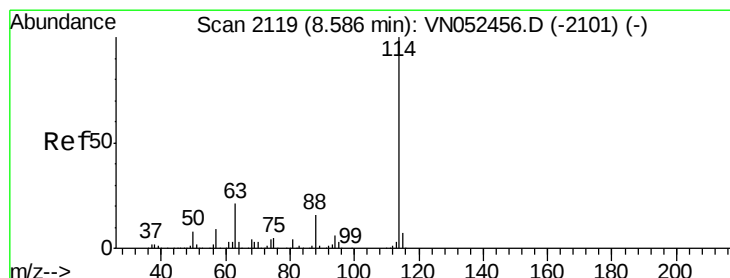
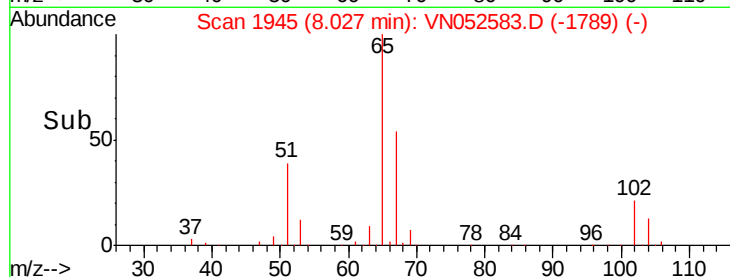
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

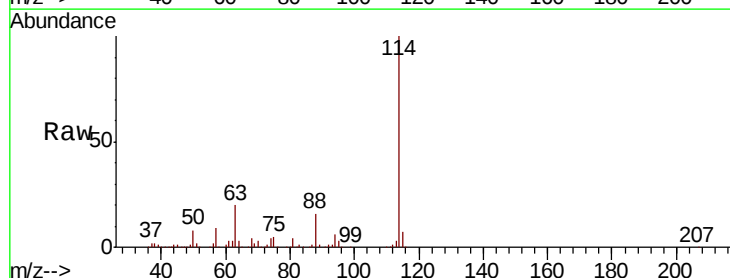
Tgt Ion: 114 Resp: 978228

Ion Ratio Lower Upper

114 100

63 20.2 16.9 25.3

88 15.6 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): VN052456.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN052456.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN052456.D (-2101) (-)

8.59

600000

500000

400000

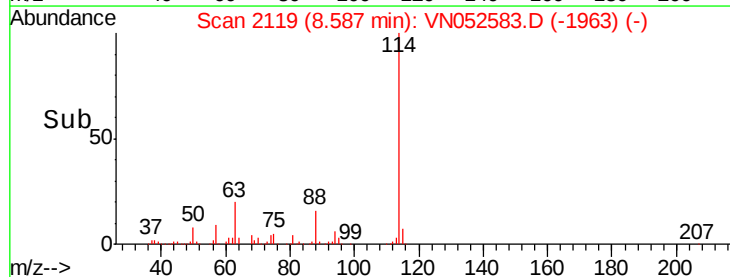
300000

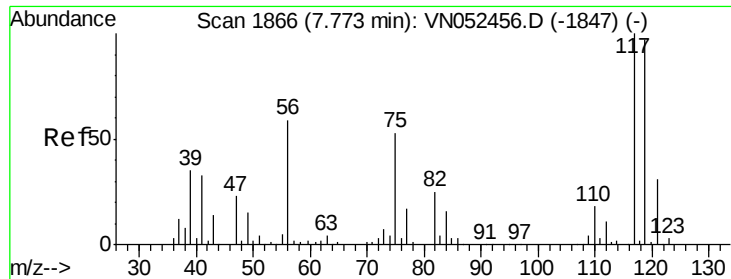
200000

100000

0

Time--> 8.50 8.60 8.70

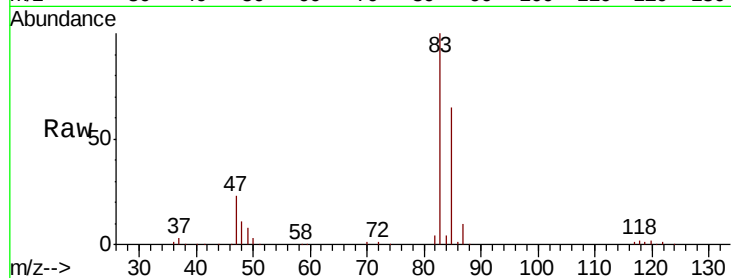




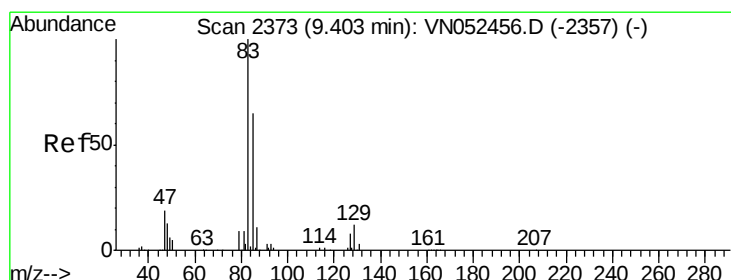
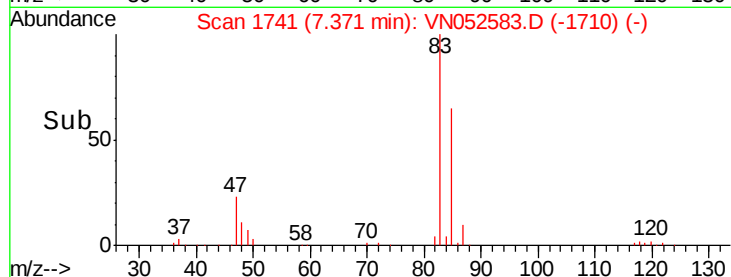
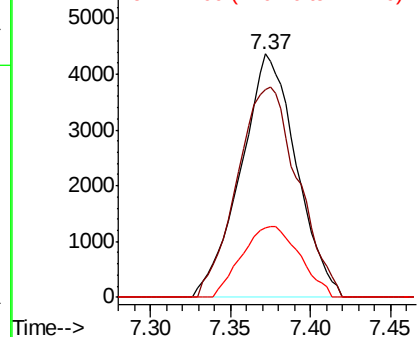
#33
Carbon Tetrachloride
Concen: 0.764 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.40 min
Lab File: VN052583.D
Acq: 30 Nov 2018 00:11

Instrument :
MSVOA_N
ClientSampleId :
14B-1DL

Tot Ion:117 Resp: 10391
Ion Ratio Lower Upper
117 100
119 85.5 77.3 115.9
121 28.4 24.9 37.3

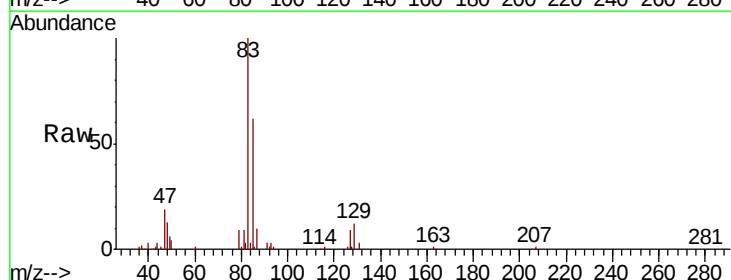


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

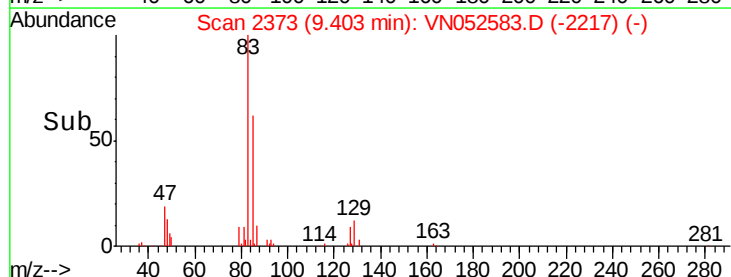
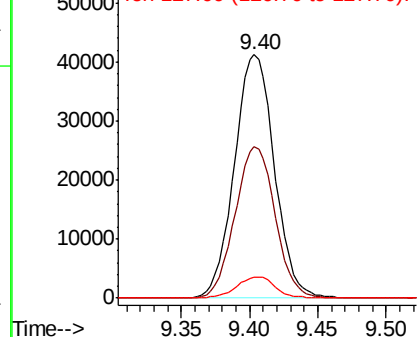


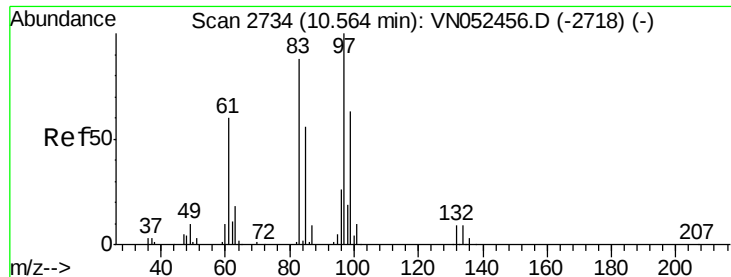
#41
Bromodichloromethane
Concen: 5.858 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052583.D
Acq: 30 Nov 2018 00:11

Tgt Ion: 83 Resp: 84203
Ion Ratio Lower Upper
83 100
85 62.0 52.4 78.6
127 9.7 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,1,2-Trichloroethane

Concen: 3.663 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

Instrument :

MSVOA_N

ClientSampleId :

14B-1DL

Tot Ion: 97 Resp: 33781

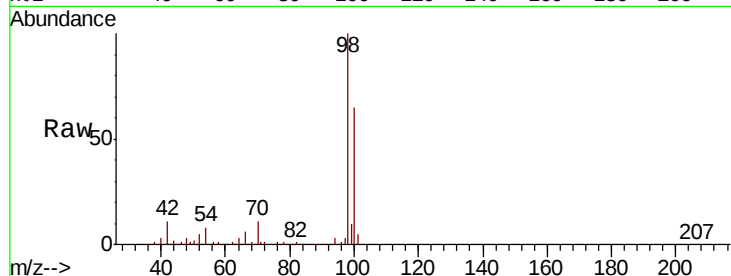
Ion Ratio Lower Upper

97 100

83 2.1 70.4 105.6#

85 0.0 45.0 67.6#

99 295.6 50.2 75.2#

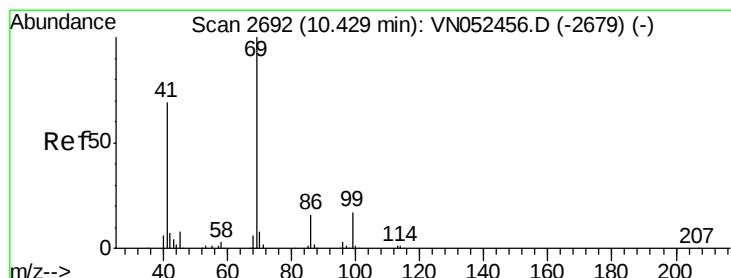
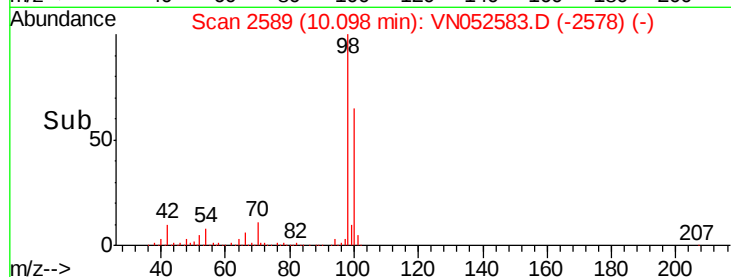
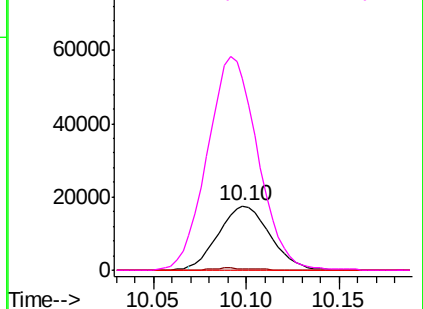


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0



#51

Ethyl methacrylate

Concen: 0.280 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

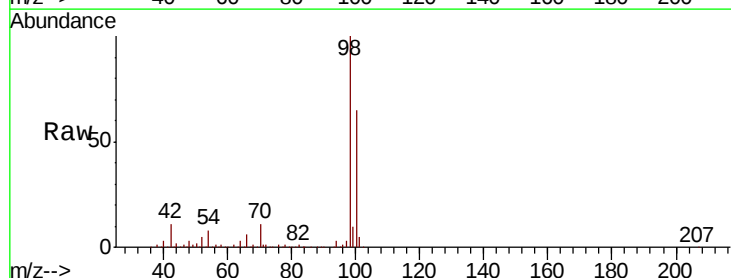
Tgt Ion: 69 Resp: 3241

Ion Ratio Lower Upper

69 100

41 71.7 34.4 103.3

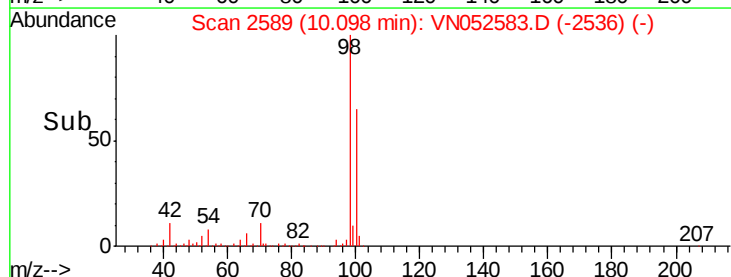
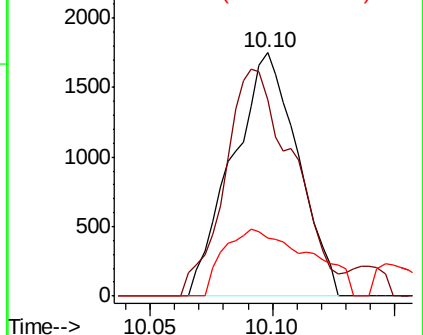
39 24.0 16.4 49.2

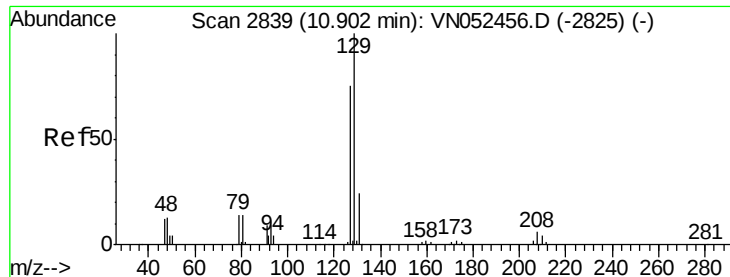


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#53

Dibromochloromethane

Concen: 0.358 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

Instrument :

MSVOA_N

ClientSampleId :

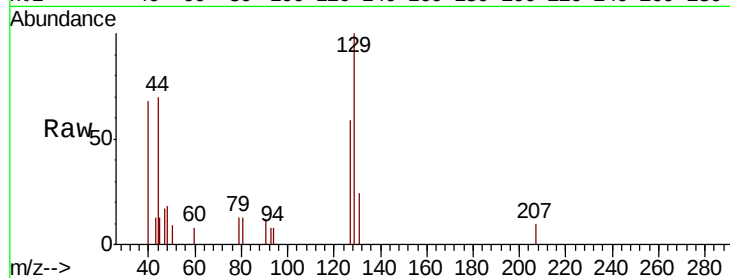
14B-1DL

Tot Ion:129 Resp: 3632

Ion Ratio Lower Upper

129 100

127 36.0 37.6 112.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

2000

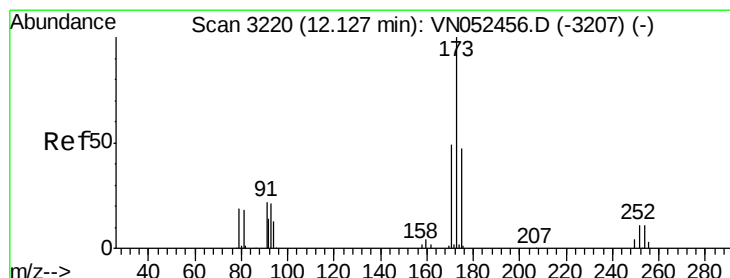
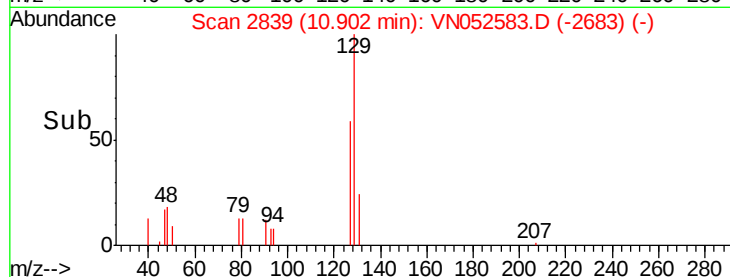
1500

1000

500

0

Time--> 10.85 10.90 10.95



#56

Bromoform

Concen: 0.358 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

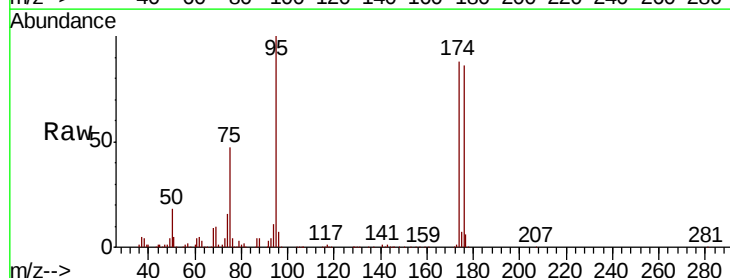
Tgt Ion:173 Resp: 2378

Ion Ratio Lower Upper

173 100

175 885.9 38.7 58.1#

254 0.0 8.4 12.6#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

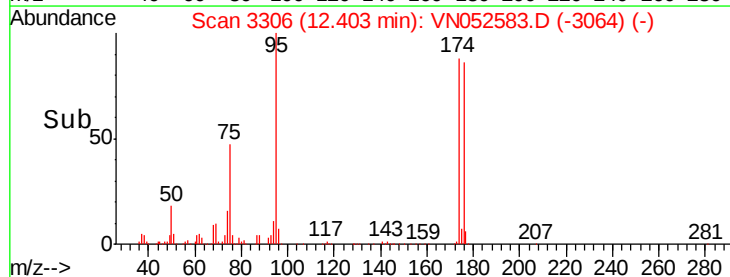
15000

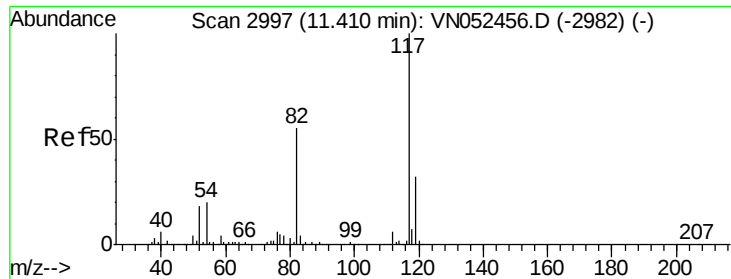
10000

5000

0

Time--> 12.40

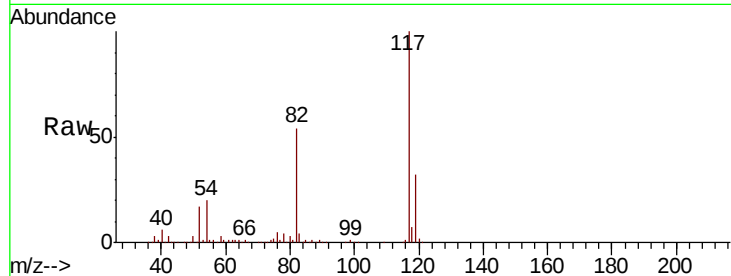




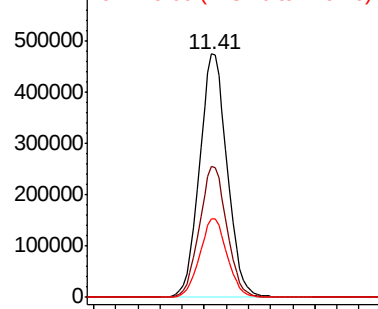
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052583.D
Acq: 30 Nov 2018 00:11

Instrument :
MSVOA_N
ClientSampleId :
14B-1DL

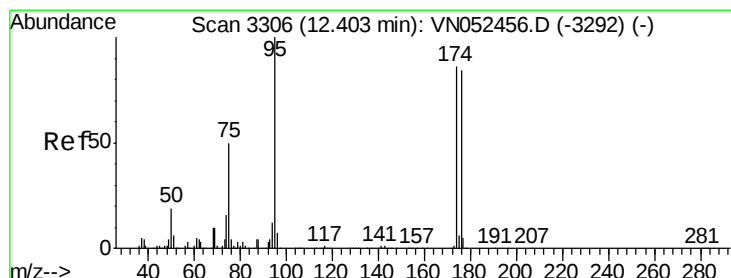
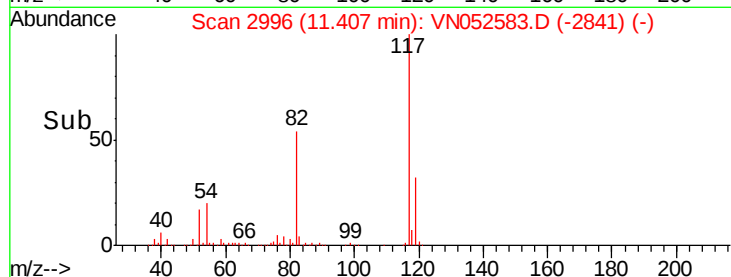
Tot Ion:117 Resp: 820158
Ion Ratio Lower Upper
117 100
82 53.6 44.2 66.2
119 32.1 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

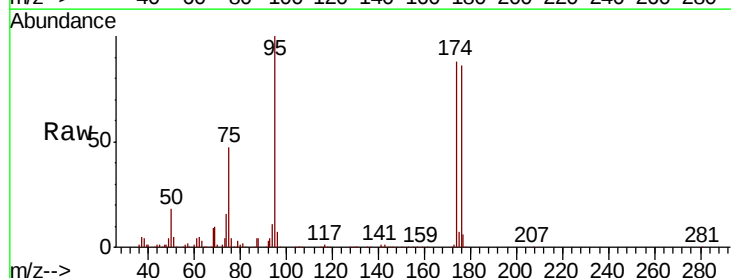


Time--> 11.30 11.40 11.50

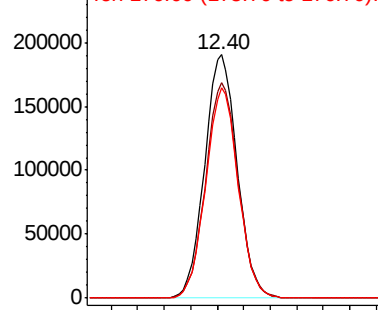


#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052583.D
Acq: 30 Nov 2018 00:11

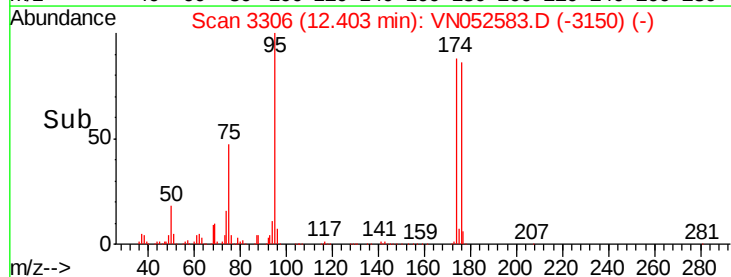
Tgt Ion: 95 Resp: 324175
Ion Ratio Lower Upper
95 100
174 88.6 67.9 101.9
176 86.0 66.4 99.6

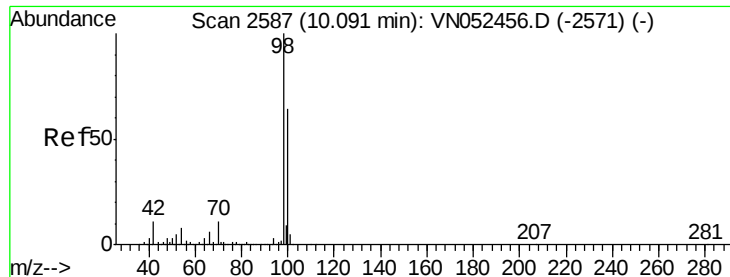


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V



Time--> 12.40 12.50





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

Instrument :

MSVOA_N

ClientSampleId :

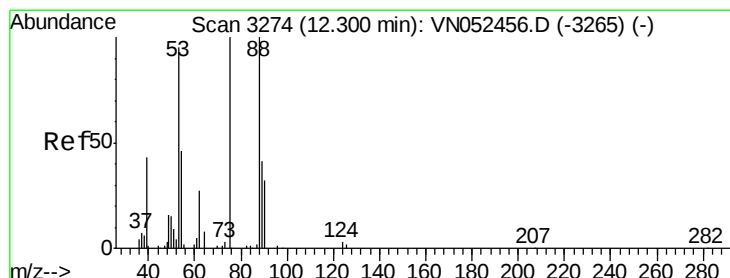
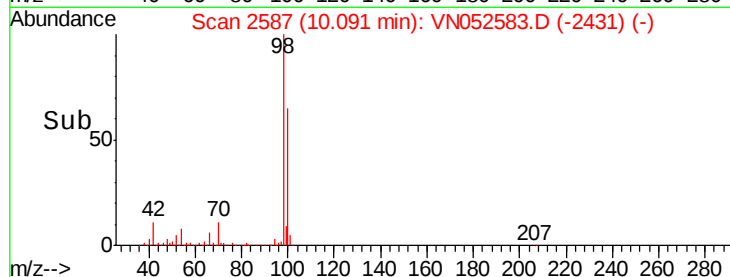
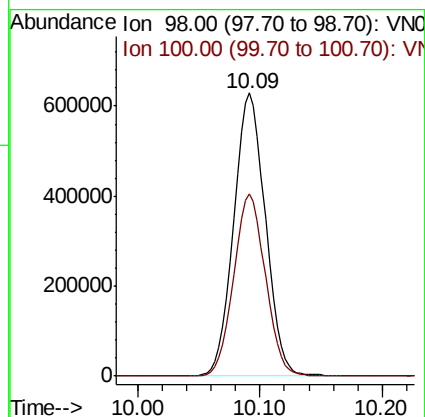
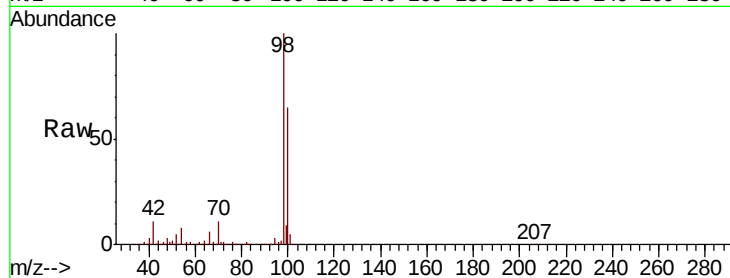
14B-1DL

Tot Ion: 98 Resp: 1134852

Ion Ratio Lower Upper

98 100

100 64.5 51.1 76.7



#77

t-1,4-Dichloro-2-butene

Concen: 55.865 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052583.D

Acq: 30 Nov 2018 00:11

Tgt Ion: 75 Resp: 154497

Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#

