

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN070319\
 Data File : VN056582.D
 Acq On : 3 Jul 2019 12:15
 Operator : JC/SP
 Sample : K3589-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FM1180

Quant Time: Jul 03 12:35:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	46828	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	260143	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	209919	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	99545	30.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.80%
60) 4-Bromofluorobenzene	12.40	95	80183	24.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	82.87%
63) Toluene-d8	10.09	98	304769	31.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.13%

Target Compounds

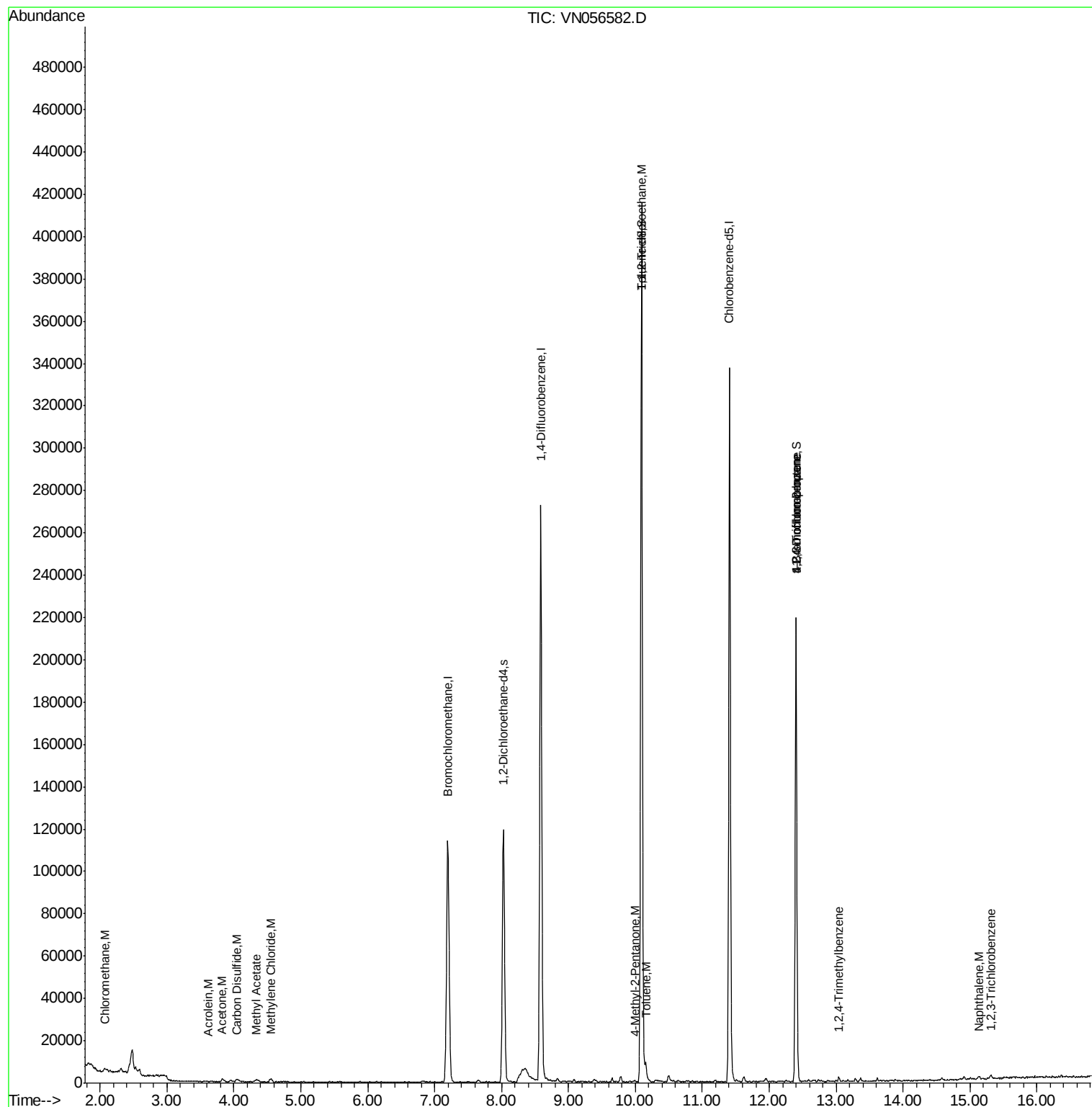
					Qvalue	
3) Chloromethane	2.06	50	967	0.284	ug/l #	41
12) Methyl Acetate	4.33	43	1254	0.363	ug/l #	73
13) Acrolein	3.60	56	127	0.377	ug/l #	76
15) Acetone	3.82	58	282	0.667	ug/l #	42
16) Carbon Disulfide	4.04	76	2370	0.385	ug/l #	75
18) Methylene Chloride	4.55	84	677	0.224	ug/l #	92
50) 1,1,2-Trichloroethane	10.10	97	9552	3.244	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	960	0.254	ug/l #	53
62) Toluene	10.16	91	4948	0.422	ug/l	99
72) 1,2,3-Trichloropropane	12.40	75	37101	11.032	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	37101	34.442	ug/l #	11
80) 1,2,4-Trimethylbenzene	13.04	105	2028	0.200	ug/l	94
91) Naphthalene	15.13	128	2023	0.248	ug/l #	73
92) 1,2,3-Trichlorobenzene	15.31	180	1042	0.341	ug/l	85

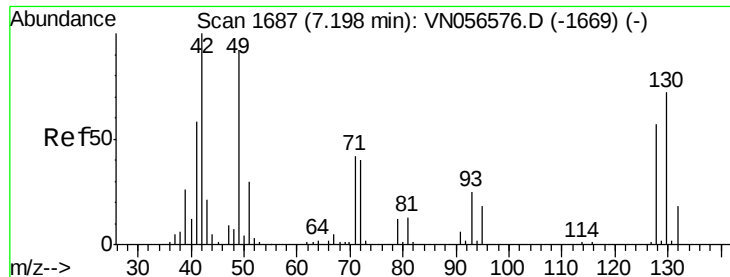
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN070319\
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QLast Update : Wed Jul 03 11:05:14 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

FM1180

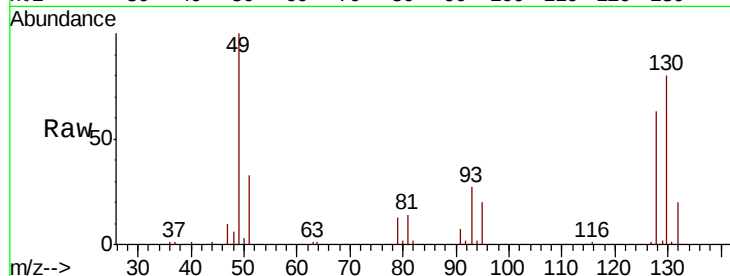
Tgt Ion:128 Resp: 46828

Ion Ratio Lower Upper

128 100

49 160.9 0.0 355.8

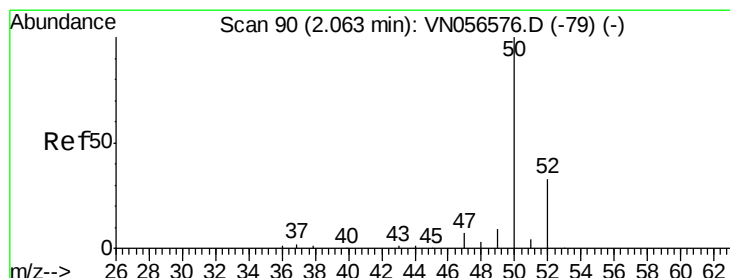
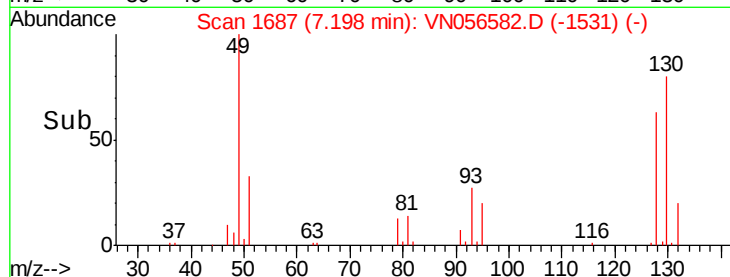
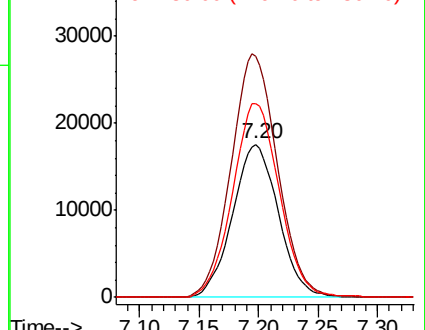
130 129.6 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.284 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056582.D

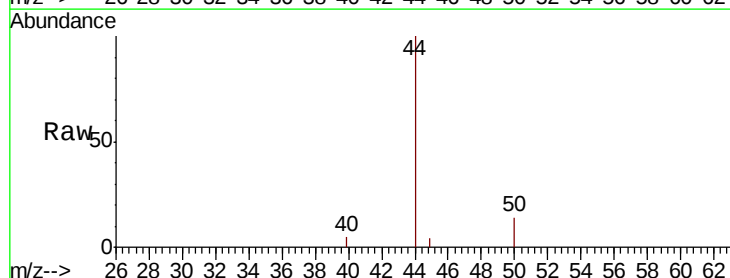
Acq: 3 Jul 2019 12:15

Tgt Ion: 50 Resp: 967

Ion Ratio Lower Upper

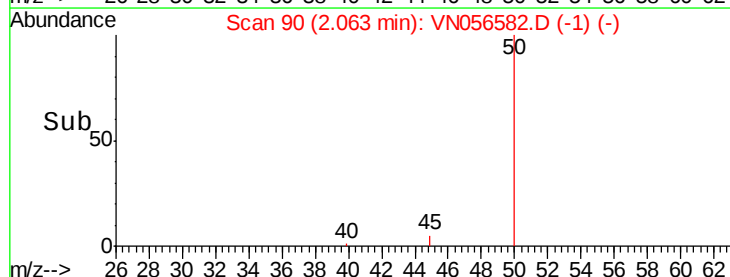
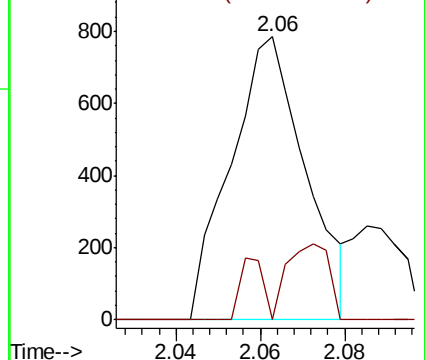
50 100

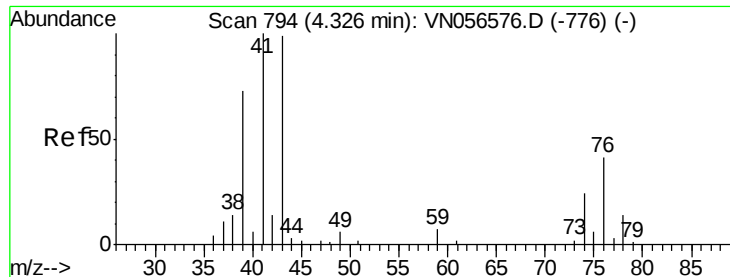
52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#12

Methyl Acetate

Concen: 0.363 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

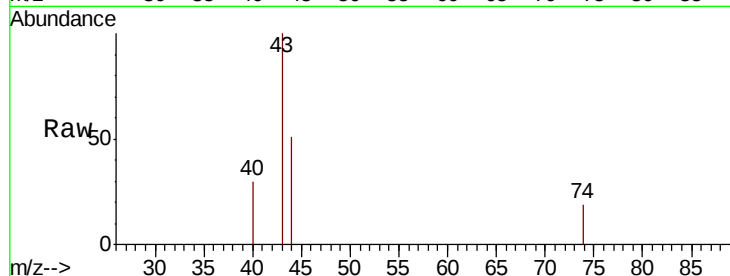
FM1180

Tgt Ion: 43 Resp: 1254

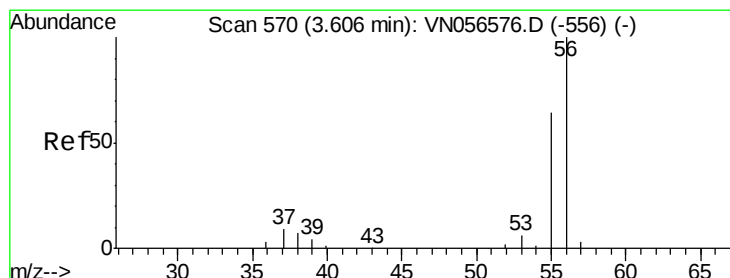
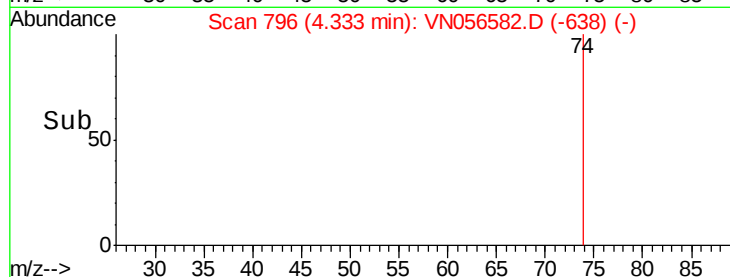
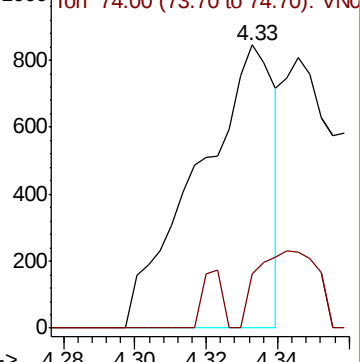
Ion Ratio Lower Upper

43 100

74 11.3 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN056582.D (-638) (-)



#13

Acrolein

Concen: 0.377 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN056582.D

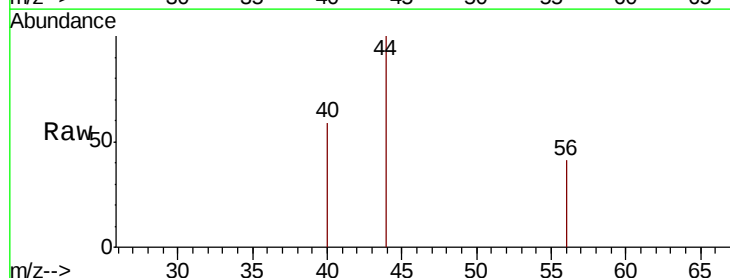
Acq: 3 Jul 2019 12:15

Tgt Ion: 56 Resp: 127

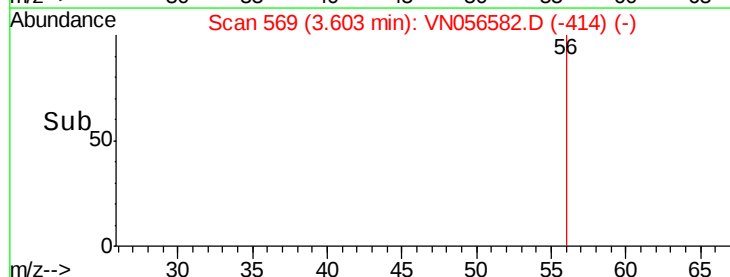
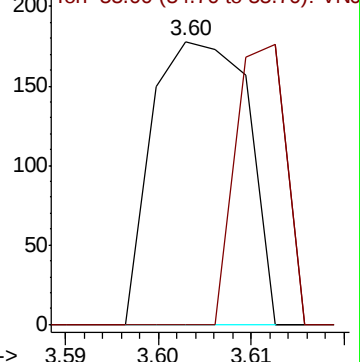
Ion Ratio Lower Upper

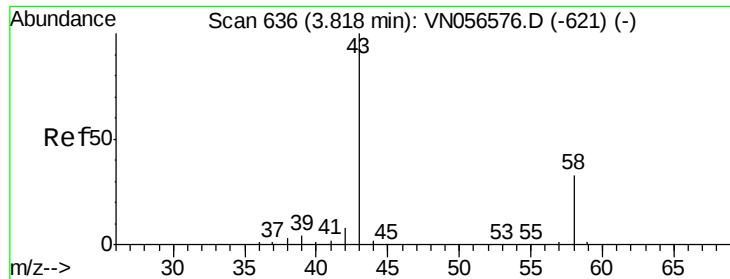
56 100

55 52.0 57.9 86.9#



Abundance Ion 56.00 (55.70 to 56.70): VN056582.D (-414) (-)





#15

Acetone

Concen: 0.667 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

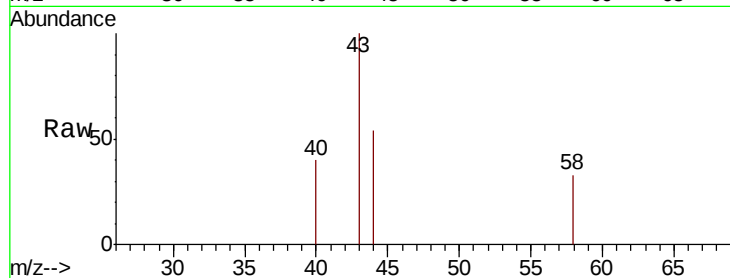
FM1180

Tgt Ion: 58 Resp: 282

Ion Ratio Lower Upper

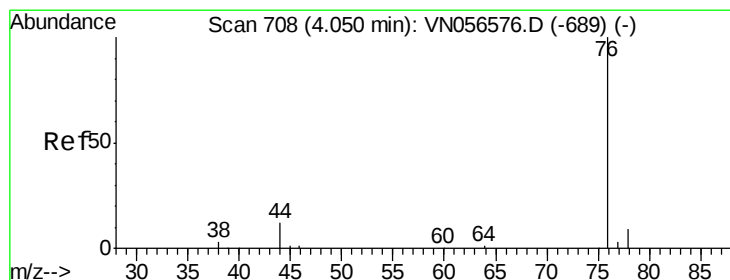
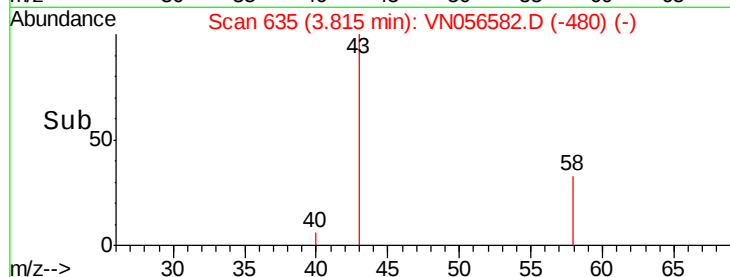
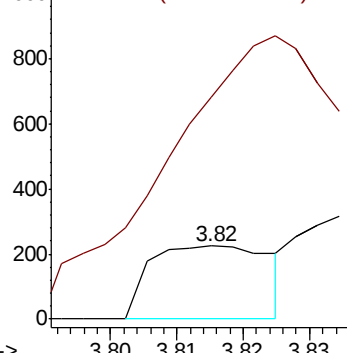
58 100

43 179.5 232.5 348.7#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 0.385 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.01 min

Lab File: VN056582.D

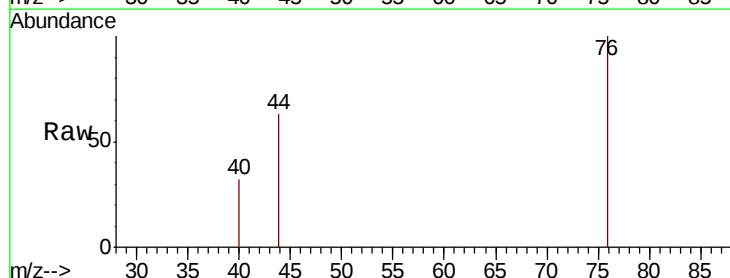
Acq: 3 Jul 2019 12:15

Tgt Ion: 76 Resp: 2370

Ion Ratio Lower Upper

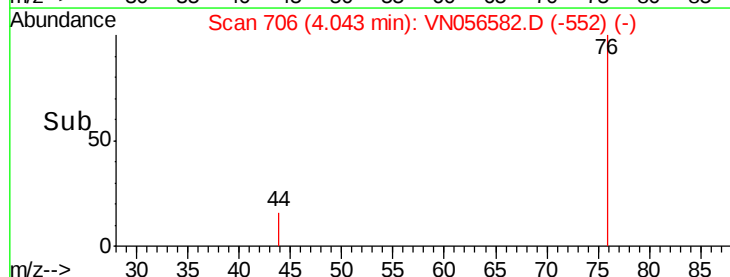
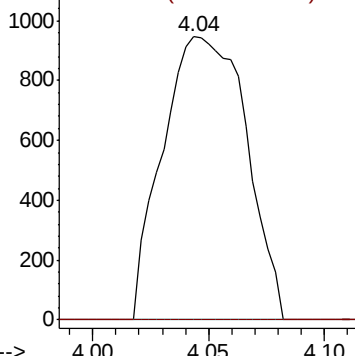
76 100

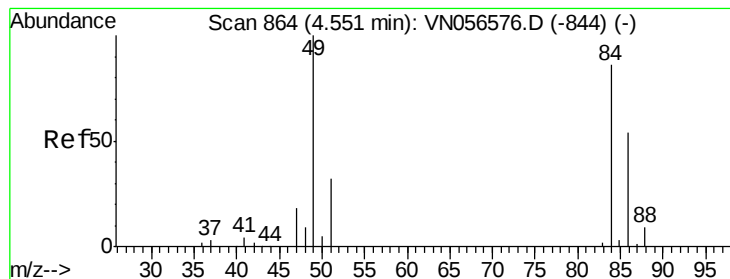
78 0.0 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#18

Methylene Chloride

Concen: 0.224 ug/l

RT: 4.55 min Scan# 863

Delta R.T. -0.00 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

FM1180

Tgt Ion: 84 Resp: 677

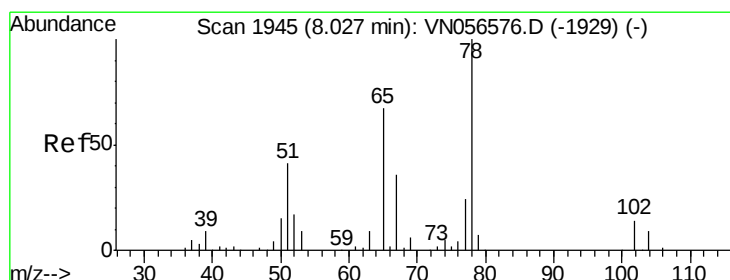
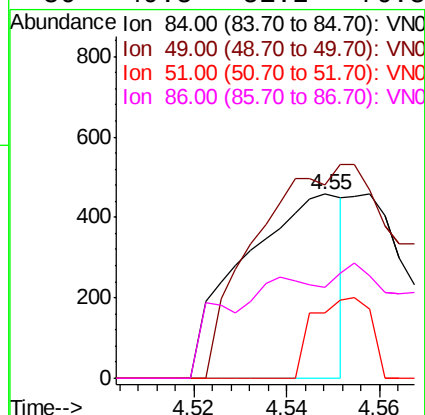
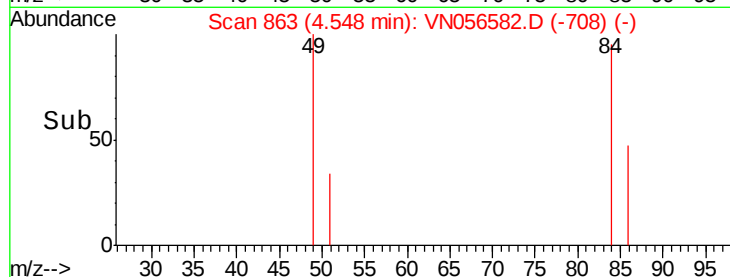
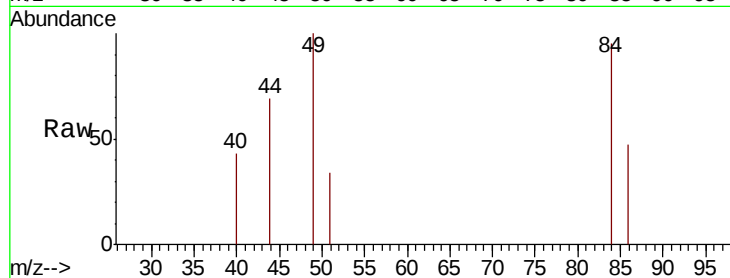
Ion Ratio Lower Upper

84 100

49 105.0 87.6 131.4

51 35.2 27.0 40.4

86 49.5 51.2 76.8#



#27

1,2-Dichloroethane-d4

Concen: 30.835 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056582.D

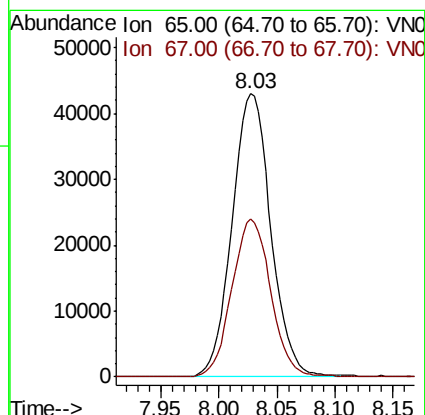
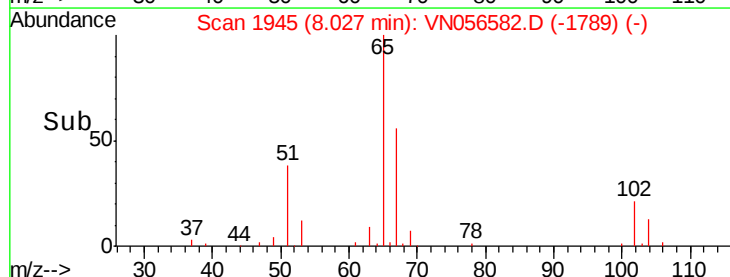
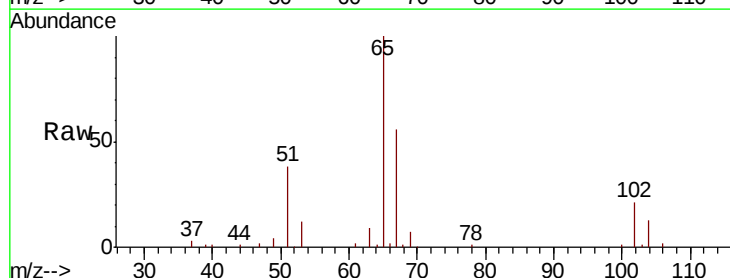
Acq: 3 Jul 2019 12:15

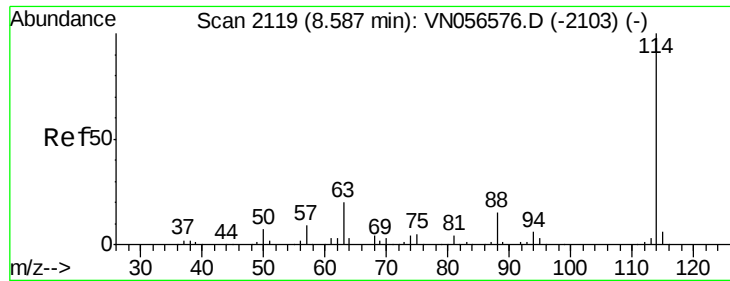
Tgt Ion: 65 Resp: 99545

Ion Ratio Lower Upper

65 100

67 55.8 43.4 65.2

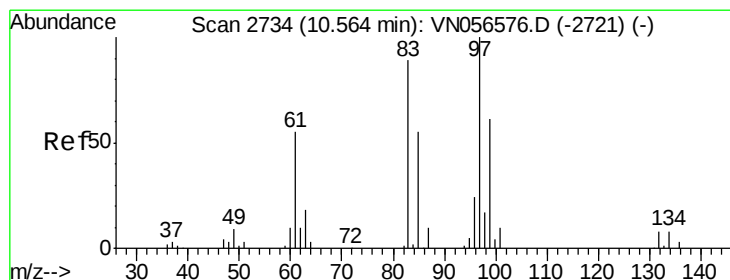
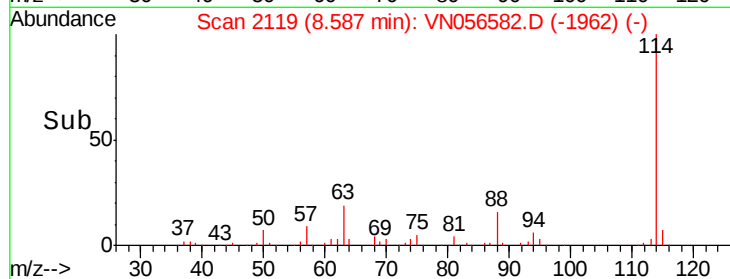
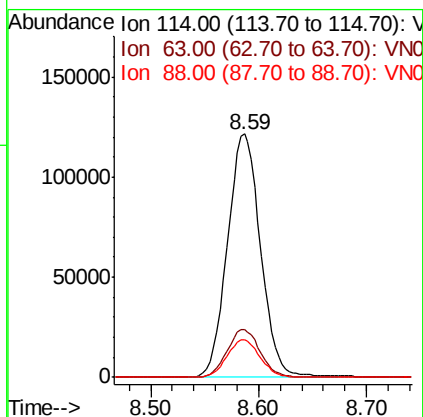
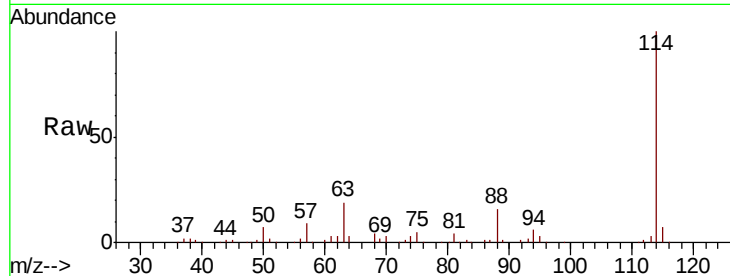




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056582.D
 Acq: 3 Jul 2019 12:15

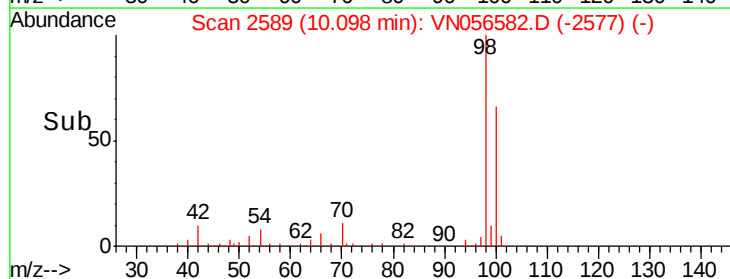
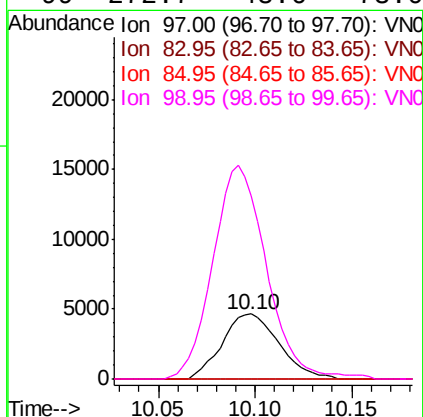
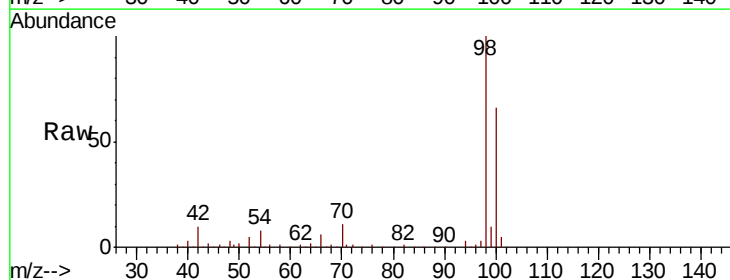
Instrument :
 MSVOA_N
 ClientSampleId :
 FM1180

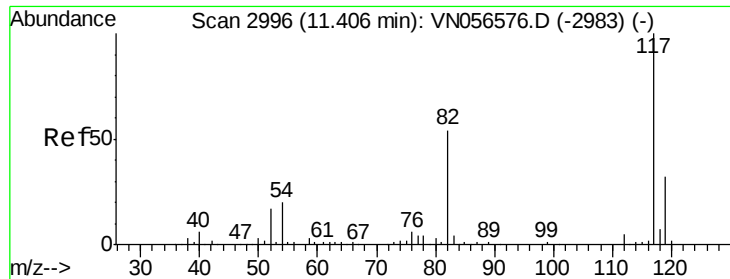
Tgt Ion: 114 Resp: 260143
 Ion Ratio Lower Upper
 114 100
 63 19.6 14.7 22.1
 88 15.3 11.9 17.9



#50
 1,1,2-Trichloroethane
 Concen: 3.244 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.46 min
 Lab File: VN056582.D
 Acq: 3 Jul 2019 12:15

Tgt Ion: 97 Resp: 9552
 Ion Ratio Lower Upper
 97 100
 83 0.0 66.9 100.3#
 85 0.0 43.3 64.9#
 99 272.7 48.6 73.0#

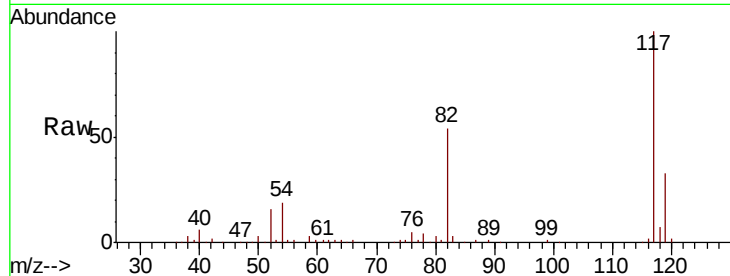




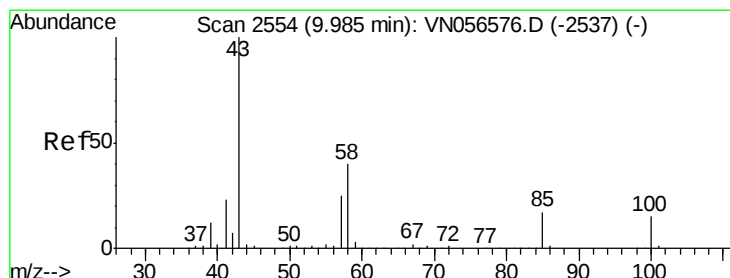
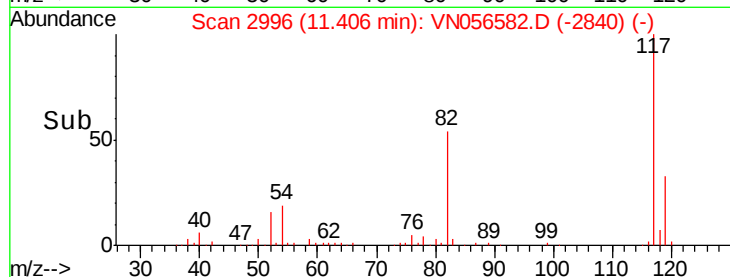
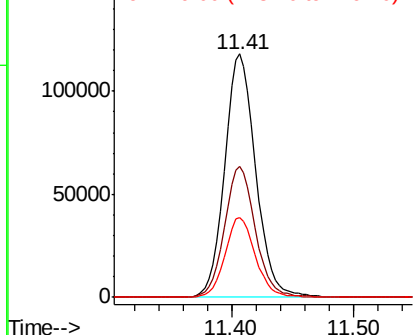
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056582.D
Acq: 3 Jul 2019 12:15

Instrument :
MSVOA_N
ClientSampled :
FM1180

Tgt Ion:117 Resp: 209919
Ion Ratio Lower Upper
117 100
82 53.5 41.2 61.8
119 32.1 26.2 39.2

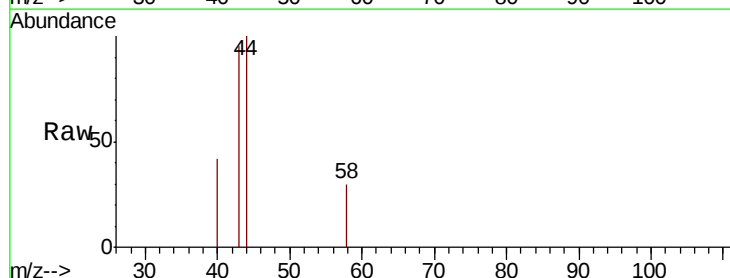


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

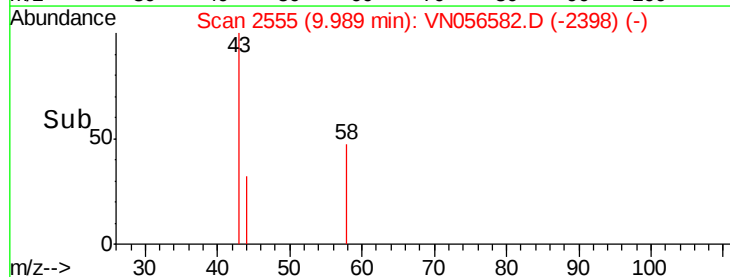
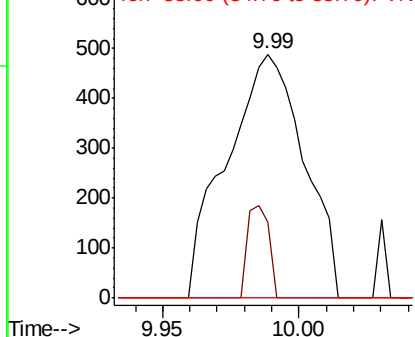


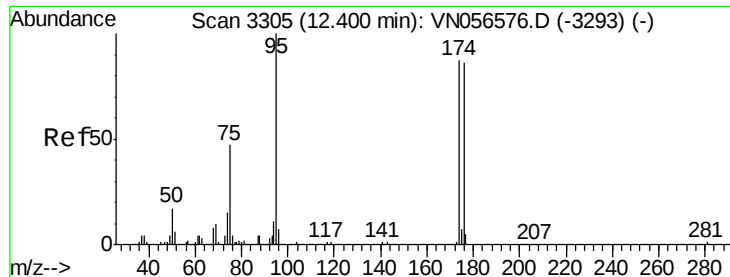
#58
4-Methyl-2-Pentanone
Concen: 0.254 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN056582.D
Acq: 3 Jul 2019 12:15

Tgt Ion: 43 Resp: 960
Ion Ratio Lower Upper
43 100
58 10.3 33.1 49.7#
85 0.0 15.5 23.3#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN





#60

4-Bromofluorobenzene

Concen: 24.858 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

FM1180

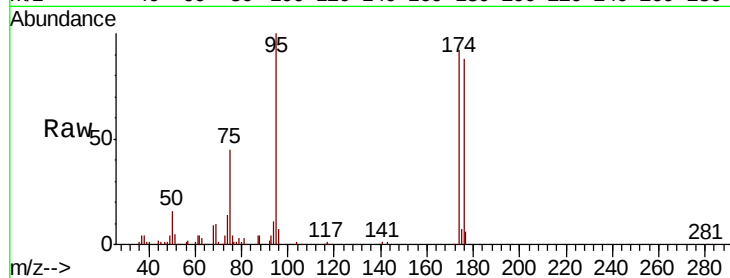
Tgt Ion: 95 Resp: 80183

Ion Ratio Lower Upper

95 100

174 90.0 75.4 113.0

176 86.9 73.9 110.9

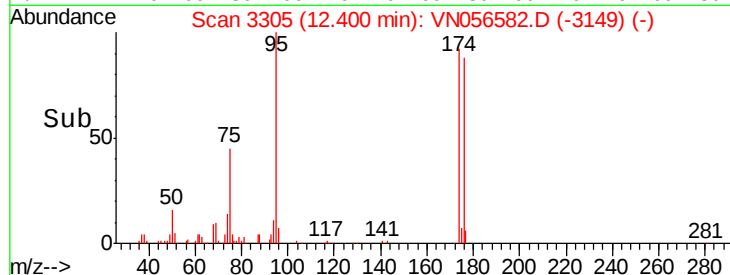


Abundance Ion 95.00 (94.70 to 95.70): VN056576.D (-3293) (-)

Ion 174.00 (173.70 to 174.70): VN056576.D (-3293) (-)

Ion 176.00 (175.70 to 176.70): VN056576.D (-3293) (-)

Time-->

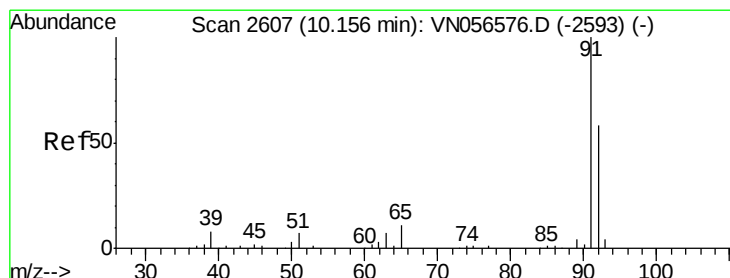


Abundance Ion 95.00 (94.70 to 95.70): VN056582.D (-3149) (-)

Ion 174.00 (173.70 to 174.70): VN056582.D (-3149) (-)

Ion 176.00 (175.70 to 176.70): VN056582.D (-3149) (-)

Time-->



#62

Toluene

Concen: 0.422 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056582.D

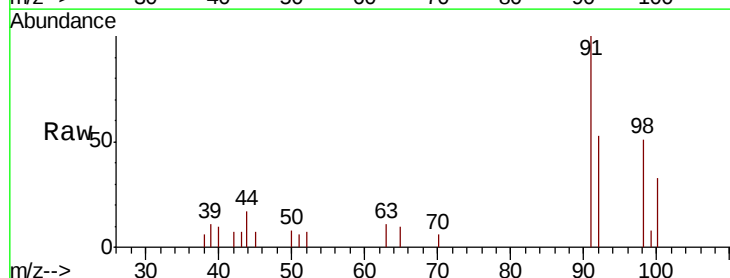
Acq: 3 Jul 2019 12:15

Tgt Ion: 91 Resp: 4948

Ion Ratio Lower Upper

91 100

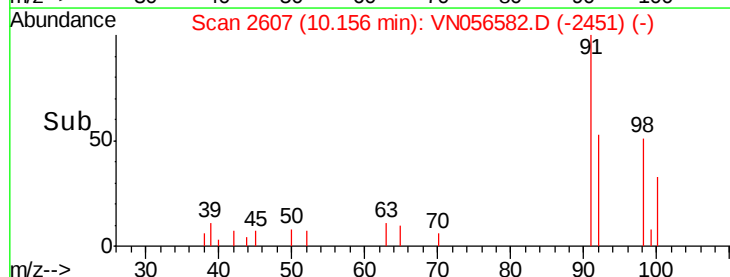
92 56.1 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VN056576.D (-2593) (-)

Ion 92.00 (91.70 to 92.70): VN056576.D (-2593) (-)

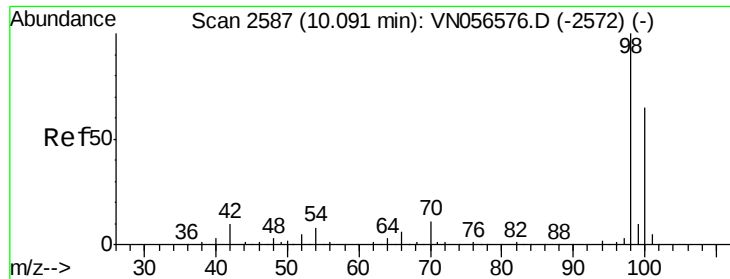
Time-->



Abundance Ion 91.00 (90.70 to 91.70): VN056582.D (-2451) (-)

Ion 92.00 (91.70 to 92.70): VN056582.D (-2451) (-)

Time-->



#63

Toluene-d8

Concen: 31.243 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

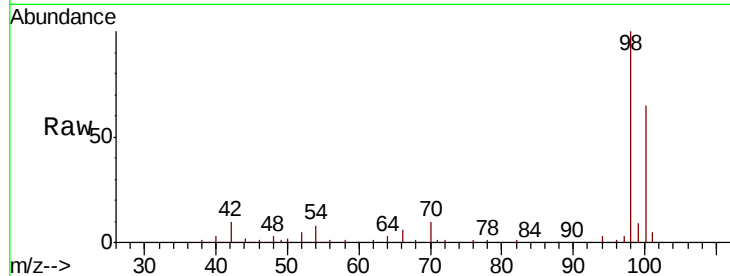
FM1180

Tgt Ion: 98 Resp: 304769

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN056576.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN056576.D (-2572) (-)

10.09

150000

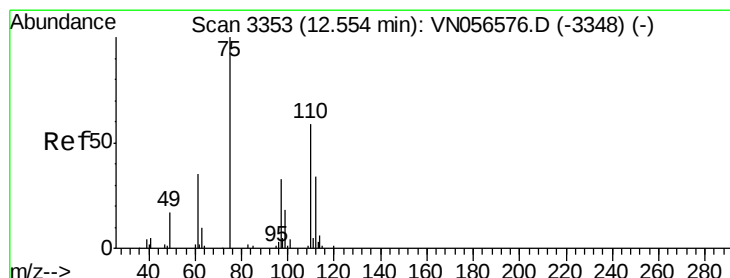
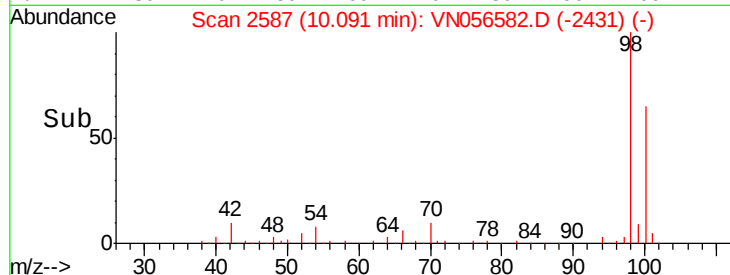
100000

50000

0

Time-->

10.00 10.10 10.20



#72

1,2,3-Trichloropropane

Concen: 11.032 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056582.D

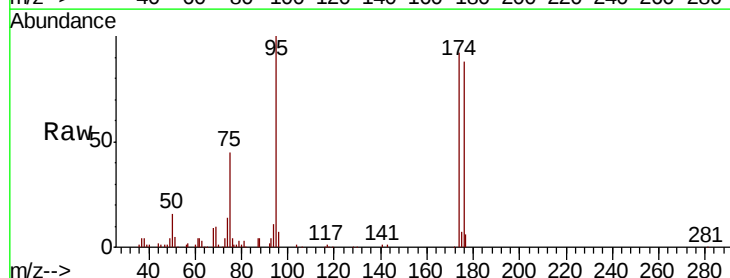
Acq: 3 Jul 2019 12:15

Tgt Ion: 75 Resp: 37101

Ion Ratio Lower Upper

75 100

77 1.2 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN056576.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN056576.D (-3348) (-)

12.40

20000

15000

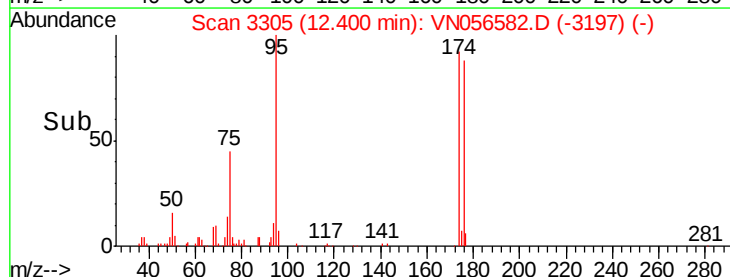
10000

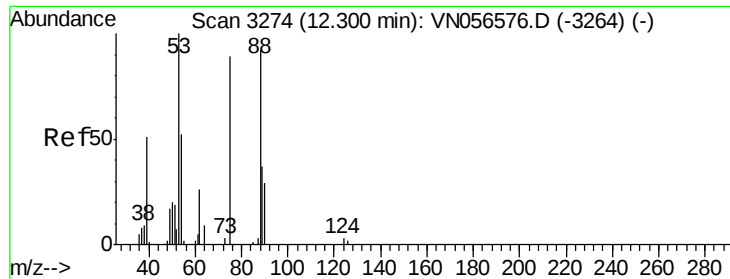
5000

0

Time-->

12.35 12.40 12.45

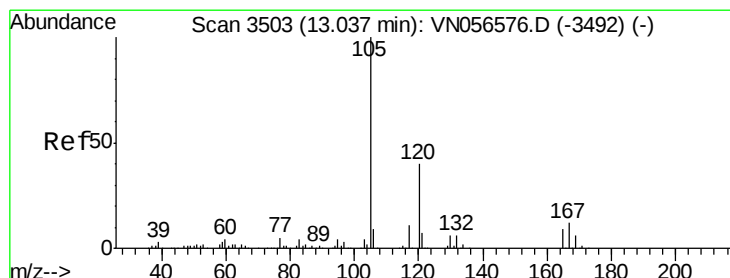
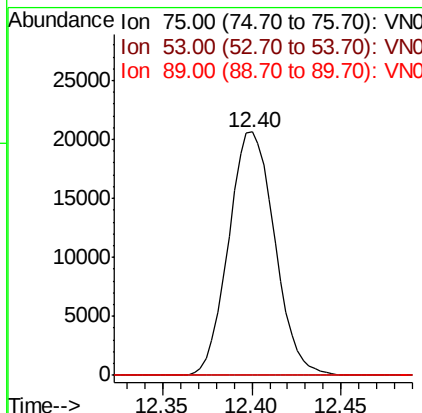
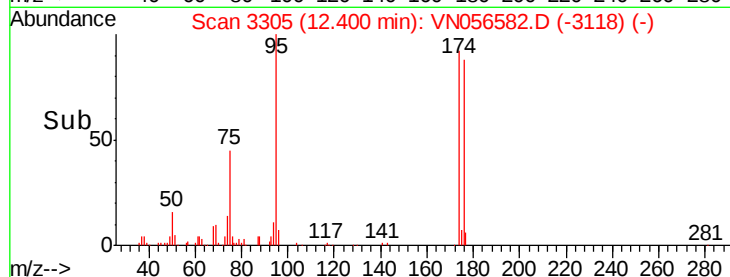
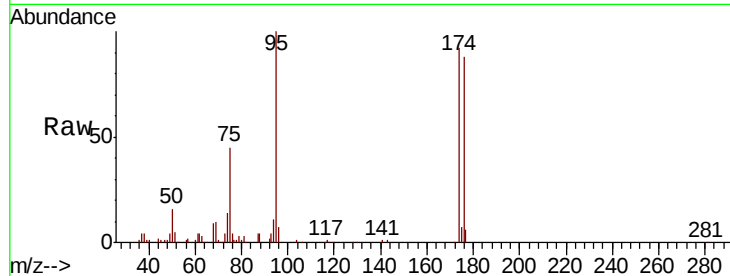




#77
t-1,4-Dichloro-2-butene
Concen: 34.442 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056582.D
Acq: 3 Jul 2019 12:15

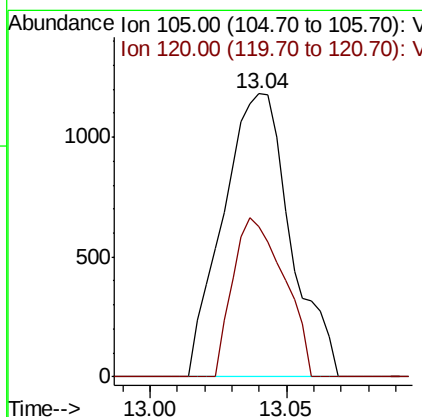
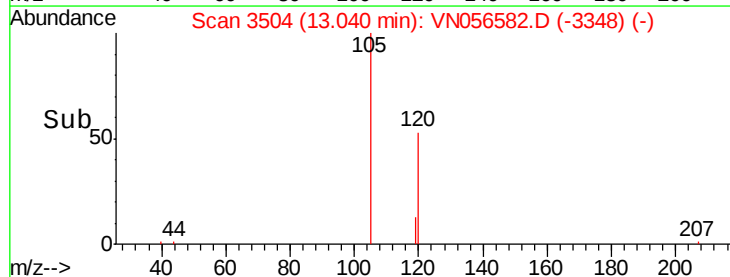
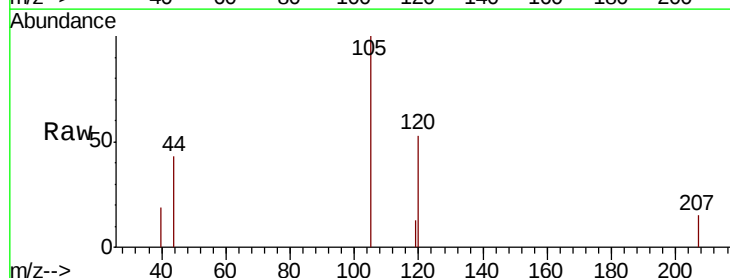
Instrument :
MSVOA_N
ClientSampled :
FM1180

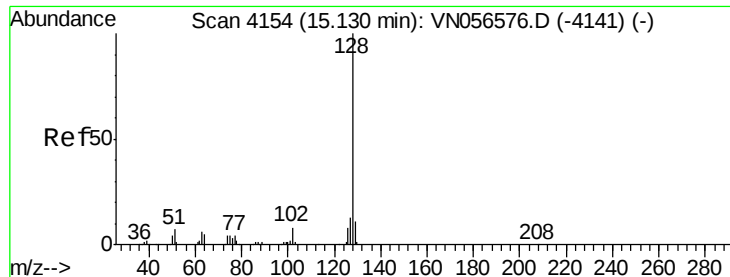
Tgt Ion: 75 Resp: 37101
Ion Ratio Lower Upper
75 100
53 0.0 48.0 144.0#
89 0.0 22.5 67.5#



#80
1,2,4-Trimethylbenzene
Concen: 0.200 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056582.D
Acq: 3 Jul 2019 12:15

Tgt Ion: 105 Resp: 2028
Ion Ratio Lower Upper
105 100
120 42.9 0.0 93.4





#91

Naphthalene

Concen: 0.248 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

Instrument :

MSVOA_N

ClientSampled :

FM1180

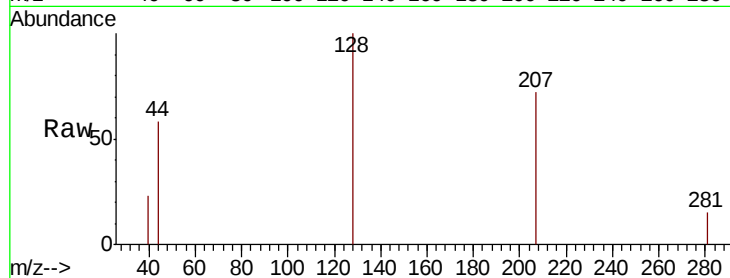
Tgt Ion:128 Resp: 2023

Ion Ratio Lower Upper

128 100

127 2.9 10.4 15.6#

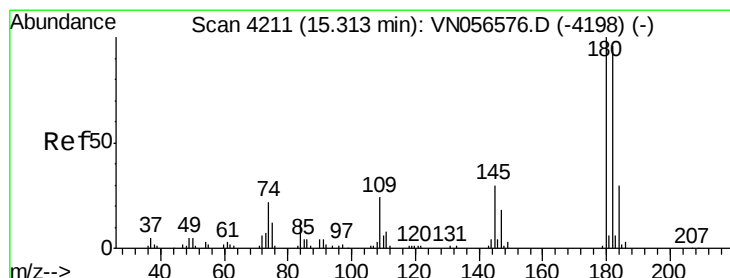
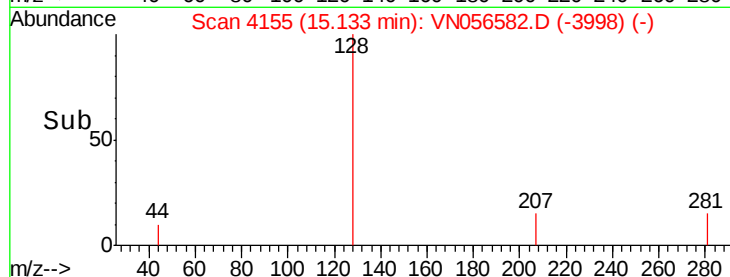
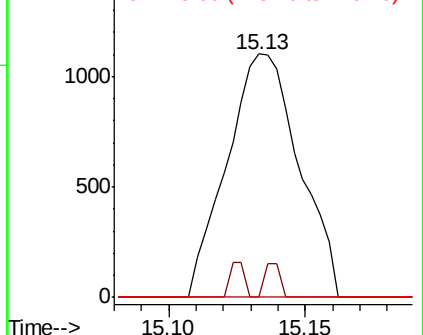
129 0.0 8.7 13.1#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.341 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056582.D

Acq: 3 Jul 2019 12:15

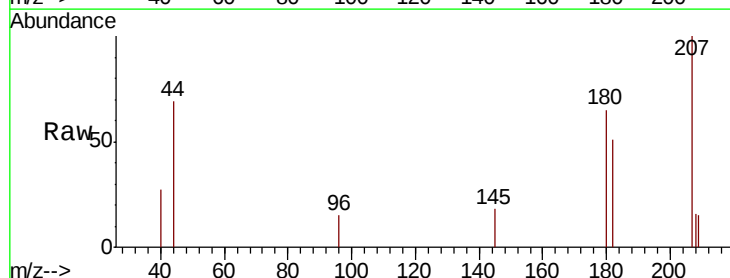
Tgt Ion:180 Resp: 1042

Ion Ratio Lower Upper

180 100

182 85.4 0.0 193.4

145 16.1 0.0 59.8



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

