

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120718\
 Data File : VN052728.D
 Acq On : 7 Dec 2018 15:52
 Operator : MD\SY
 Sample : J6214-51
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-3

Quant Time: Dec 07 22:20:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1128860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1751508	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1497050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	524651	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	603990	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
35) Dibromofluoromethane	7.59	113	545772	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
50) Toluene-d8	10.09	98	2127294	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.40	95	636902	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	

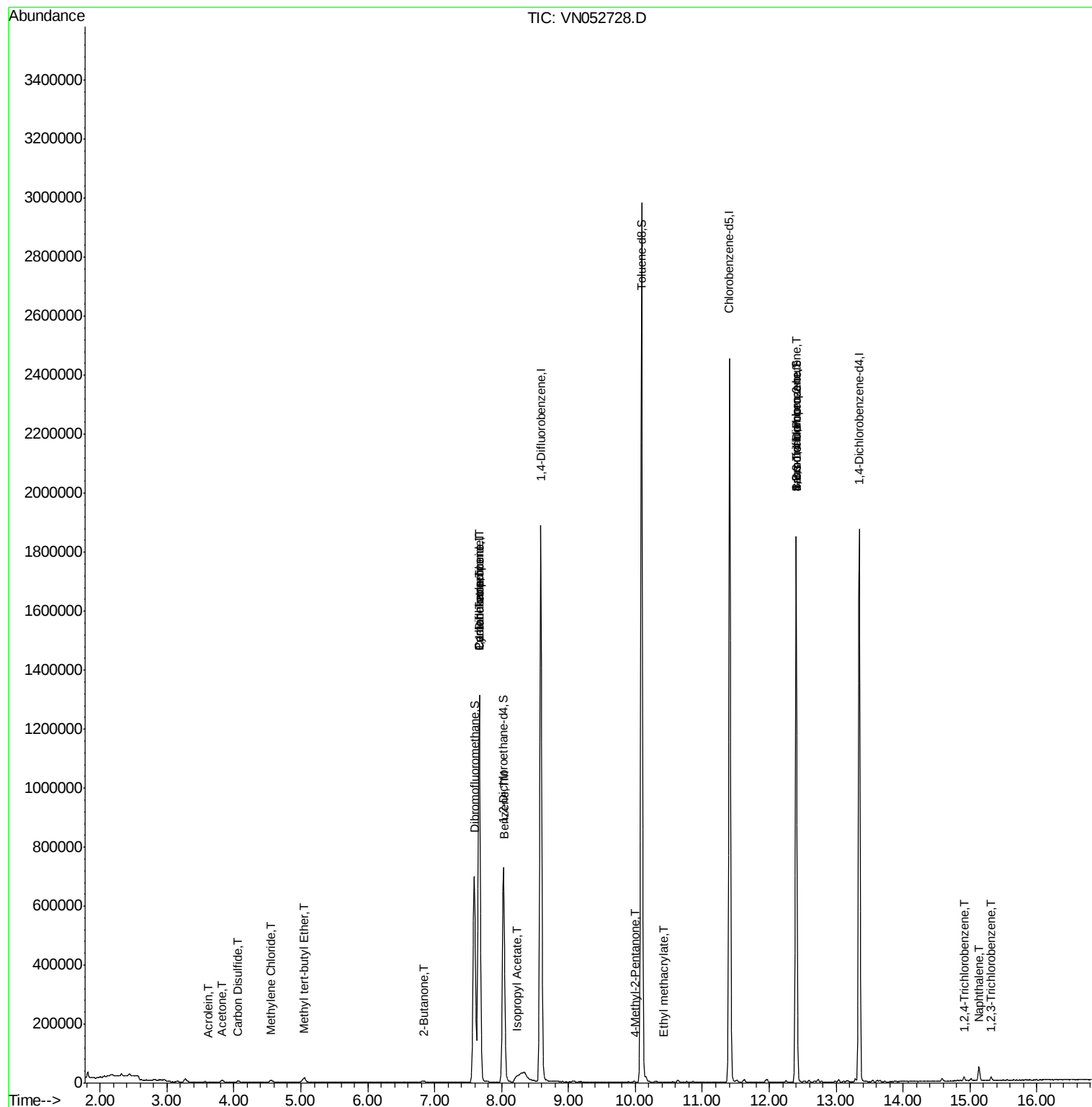
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	353	0.330	ug/l	92
16) Acetone	3.82	43	12698	3.917	ug/l	93
17) Carbon Disulfide	4.06	76	8026	0.241	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	23265	0.827	ug/l	96
20) Methylene Chloride	4.55	84	5275	0.416	ug/l	96
25) 2-Butanone	6.84	43	1023	0.223	ug/l	99
31) Cyclohexane	7.66	56	20805	0.623	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	77699	4.698	ug/l #	49
38) Carbon Tetrachloride	7.67	117	101952	6.809	ug/l #	16
40) Benzene	8.04	78	27887	0.566	ug/l	98
43) Isopropyl Acetate	8.23	43	22270	1.304	ug/l #	51
51) 4-Methyl-2-Pentanone	9.98	43	2037	0.213	ug/l #	36
56) Ethyl methacrylate	10.43	69	32	2.695	ug/l #	1
71) Bromoform	12.40	173	3997	0.562	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	307018	37.948	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	307018	126.730	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	3858	3.220	ug/l	95
95) Naphthalene	15.14	128	42448	5.430	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	5056	3.285	ug/l	90

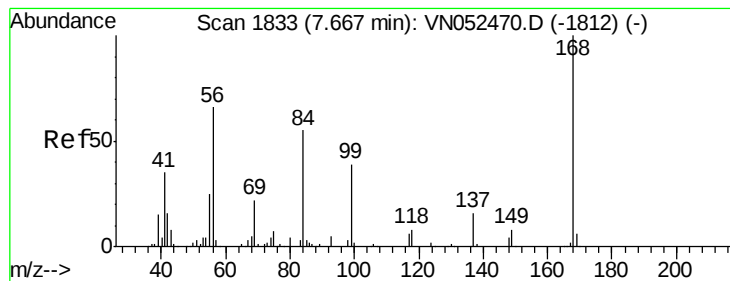
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

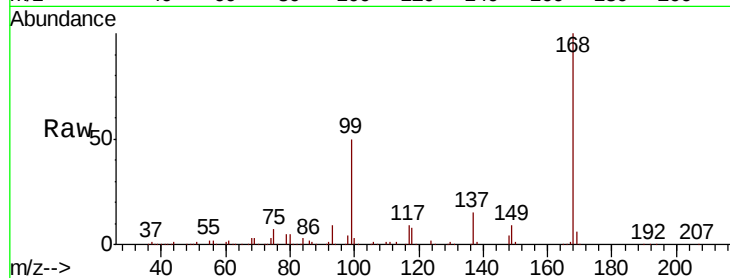
Instrument :
MSVOA_N
ClientSampled :
TW-3

Tot Ion:168 Resp: 1128860

Ion Ratio Lower Upper

168 100

99 50.5 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052728.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052728.D (-1740) (-)

7.67

500000

400000

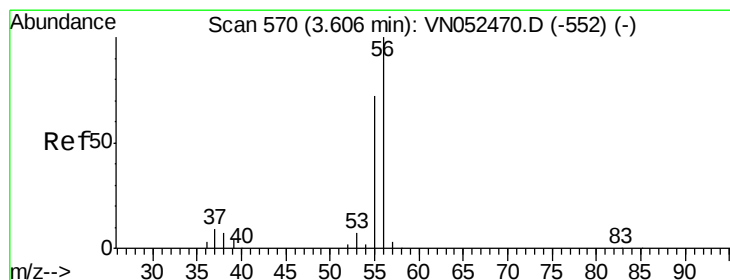
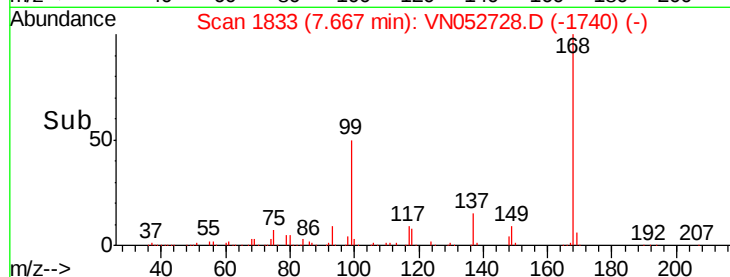
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.330 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052728.D

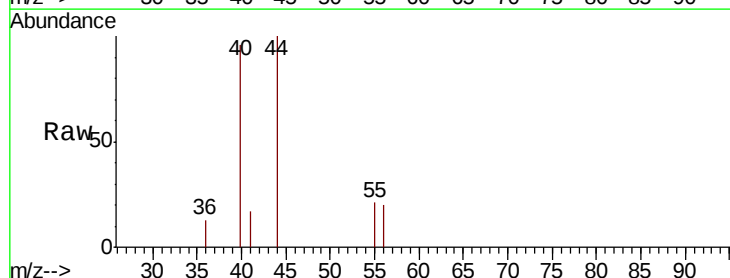
Acq: 7 Dec 2018 15:52

Tgt Ion: 56 Resp: 353

Ion Ratio Lower Upper

56 100

55 64.0 56.8 85.2



Abundance Ion 56.00 (55.70 to 56.70): VN052728.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN052728.D (-477) (-)

3.62

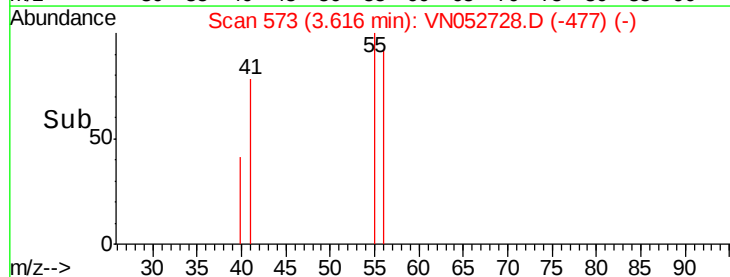
600

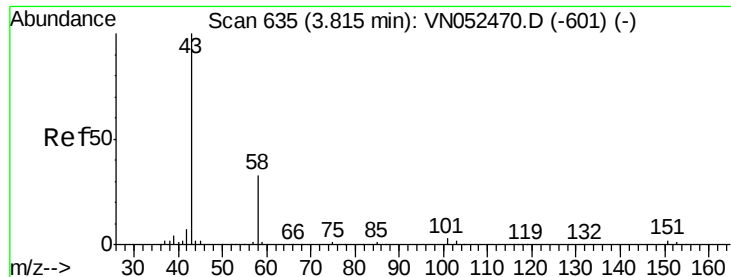
400

200

0

Time-->





#16

Acetone

Concen: 3.917 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_N

ClientSampled :

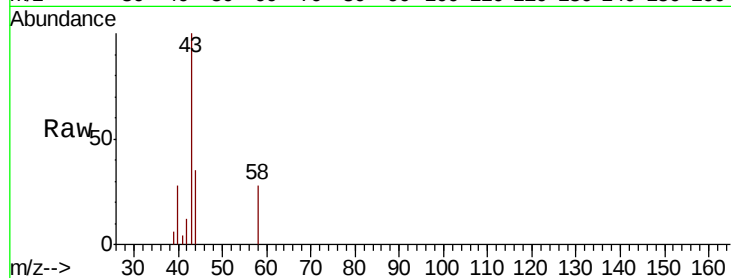
TW-3

Tot Ion: 43 Resp: 12698

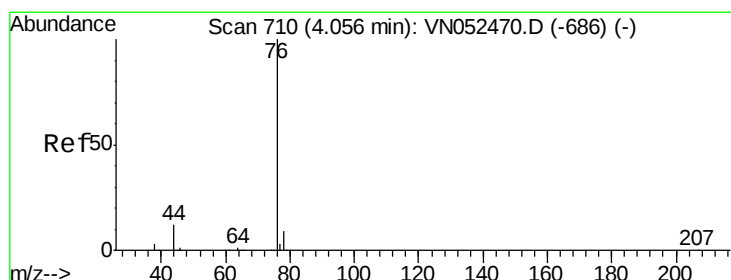
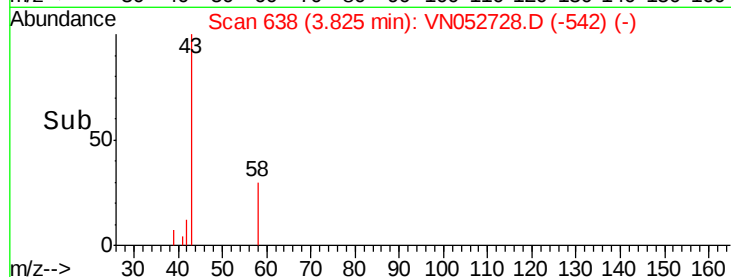
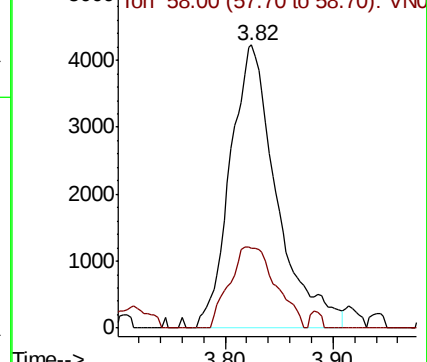
Ion Ratio Lower Upper

43 100

58 28.4 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-601) (-)



#17

Carbon Disulfide

Concen: 0.241 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052728.D

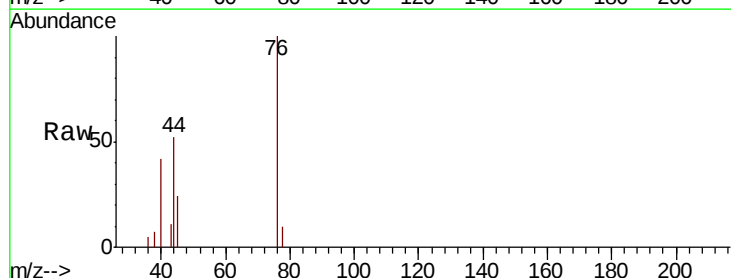
Acq: 7 Dec 2018 15:52

Tgt Ion: 76 Resp: 8026

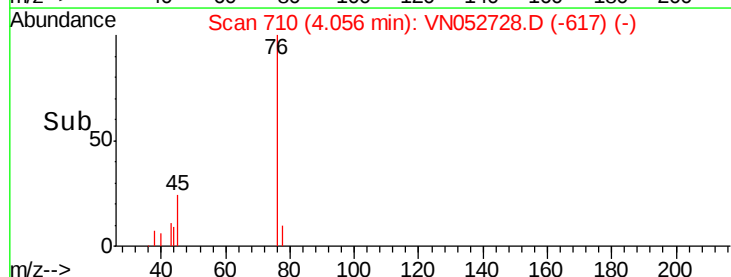
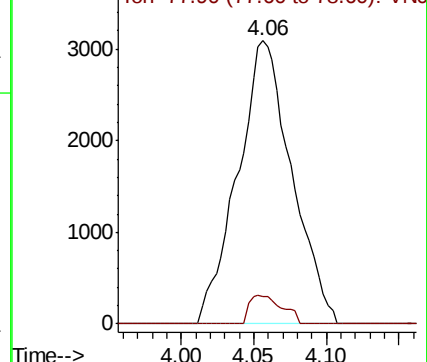
Ion Ratio Lower Upper

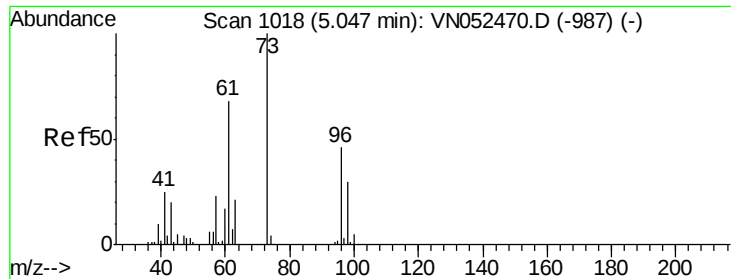
76 100

78 9.8 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VN052470.D (-686) (-)

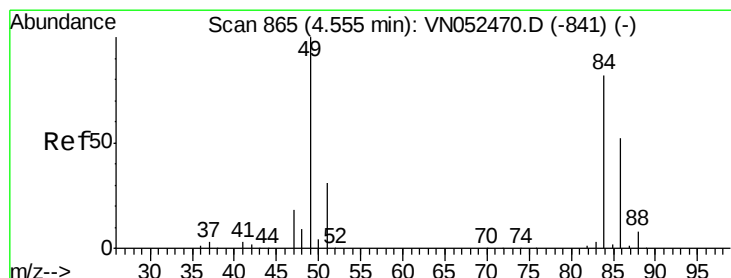
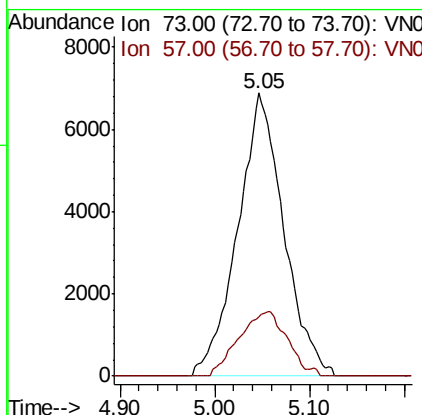
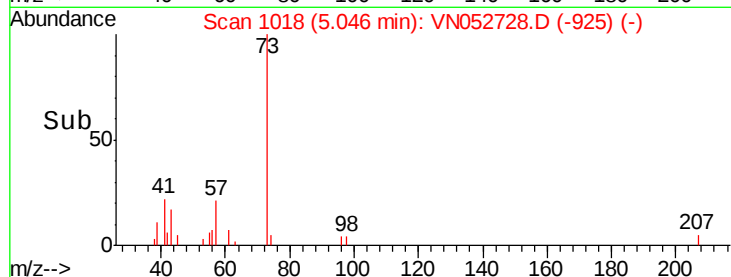
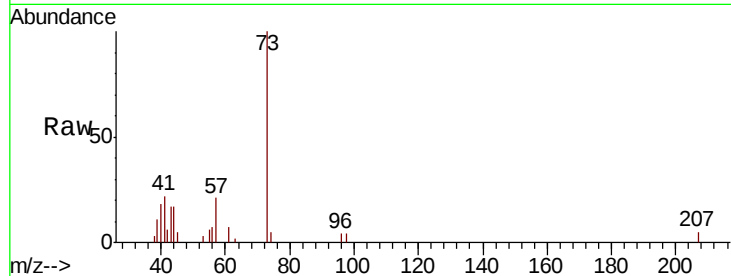




#19
Methvl tert-butvl Ether
Concen: 0.827 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

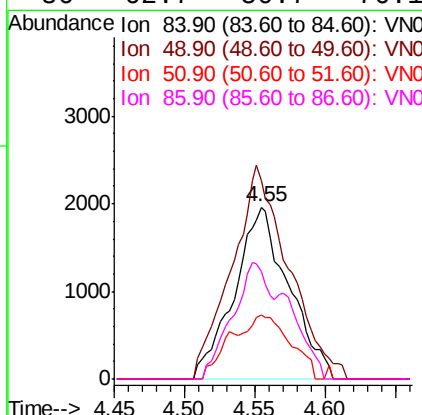
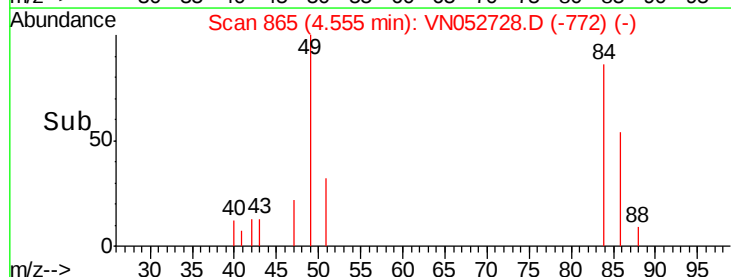
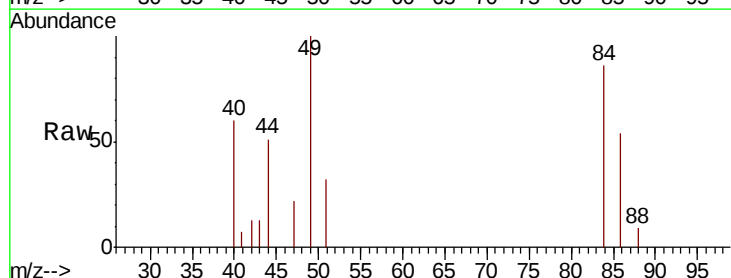
Instrument :
MSVOA_N
ClientSampleId :
TW-3

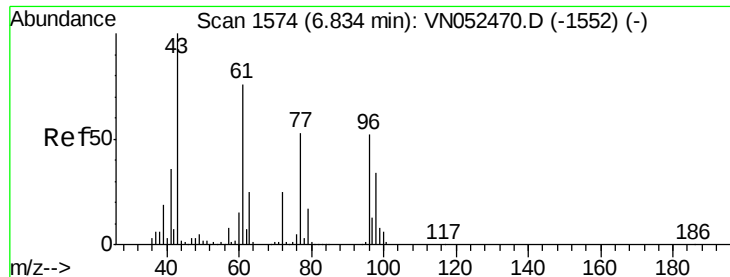
Tot Ion: 73 Resp: 23265
Ion Ratio Lower Upper
73 100
57 20.9 18.2 27.2



#20
Methylene Chloride
Concen: 0.416 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

Tgt Ion: 84 Resp: 5275
Ion Ratio Lower Upper
84 100
49 115.9 98.0 147.0
51 37.5 30.1 45.1
86 62.7 50.7 76.1

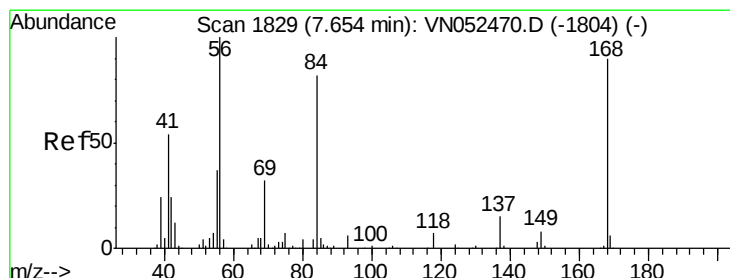
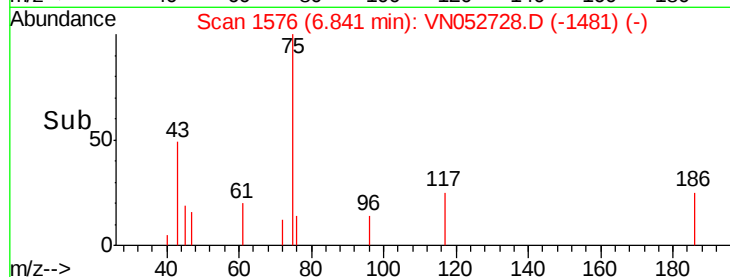
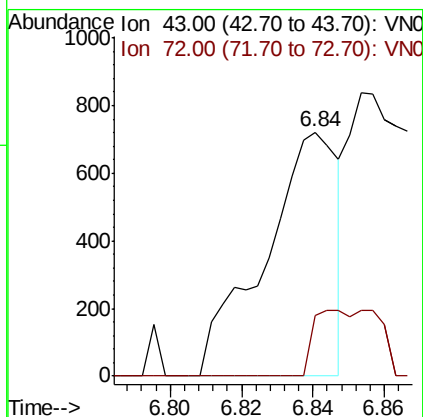
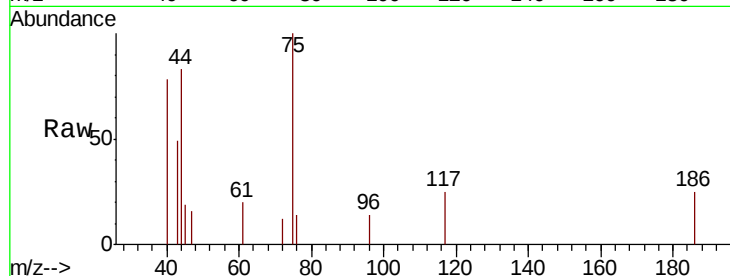




#25
2-Butanone
Concen: 0.223 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

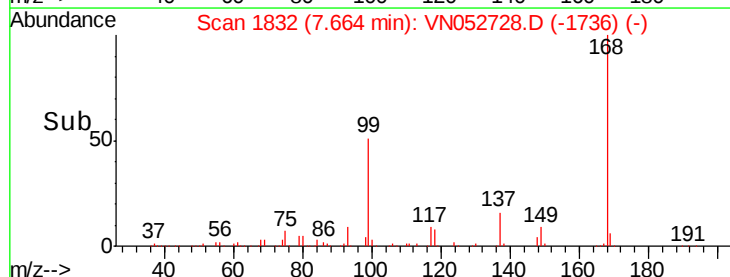
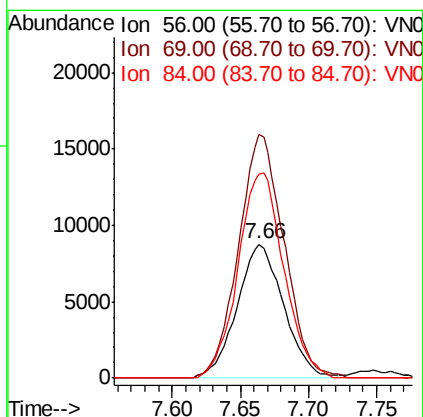
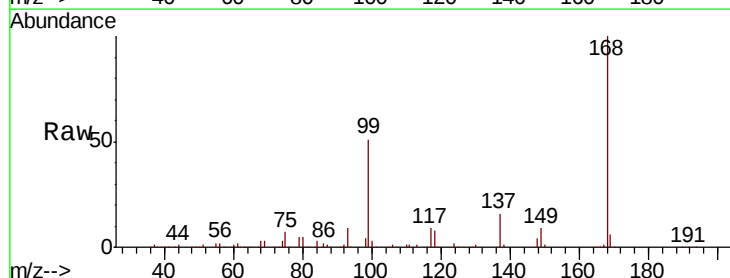
Instrument :
MSVOA_N
ClientSampleId :
TW-3

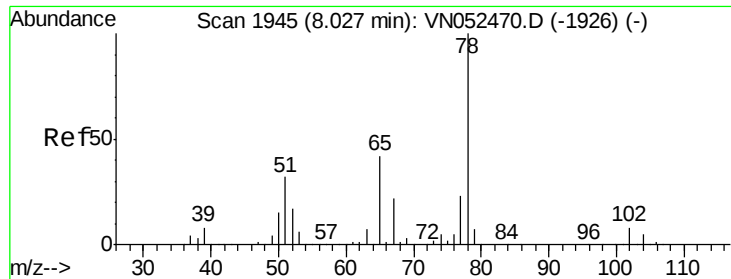
Tot Ion: 43 Resp: 1023
Ion Ratio Lower Upper
43 100
72 24.8 20.1 30.1



#31
Cyclohexane
Concen: 0.623 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

Tgt Ion: 56 Resp: 20805
Ion Ratio Lower Upper
56 100
69 181.9 25.8 38.6#
84 152.0 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_N

ClientSampleId :

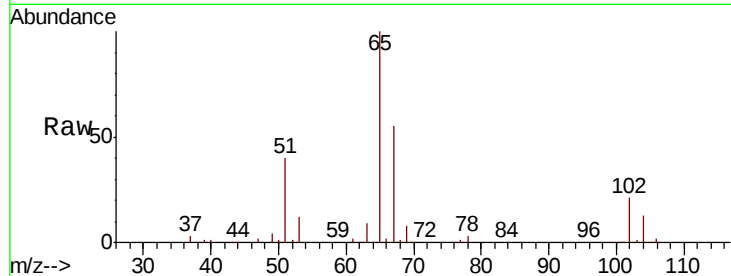
TW-3

Tot Ion: 65 Resp: 603990

Ion Ratio Lower Upper

65 100

67 54.1 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN052728.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN052728.D (-1926) (-)

8.03

250000

200000

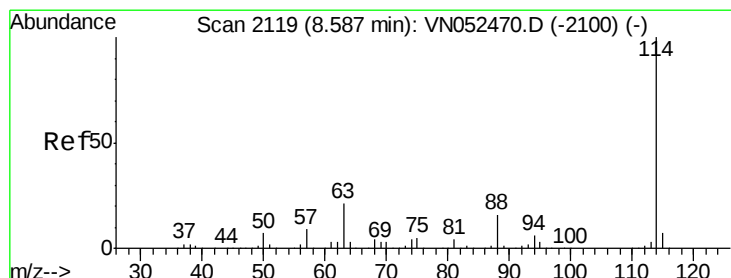
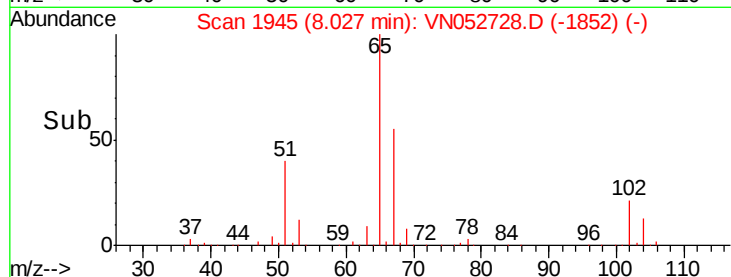
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

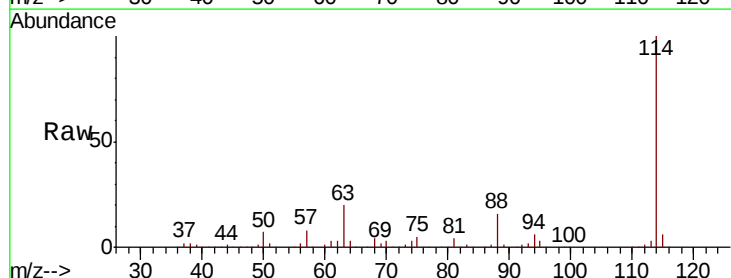
Tgt Ion: 114 Resp: 1751508

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.8

88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN052728.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN052728.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN052728.D (-2100) (-)

8.59

1000000

800000

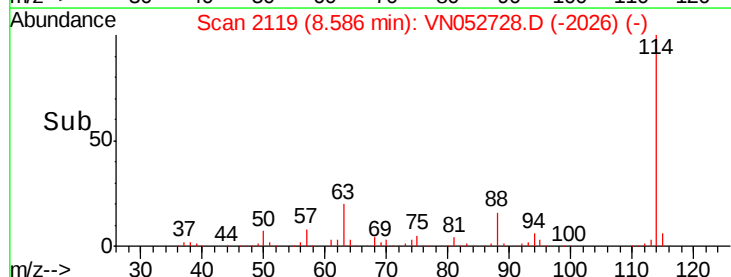
600000

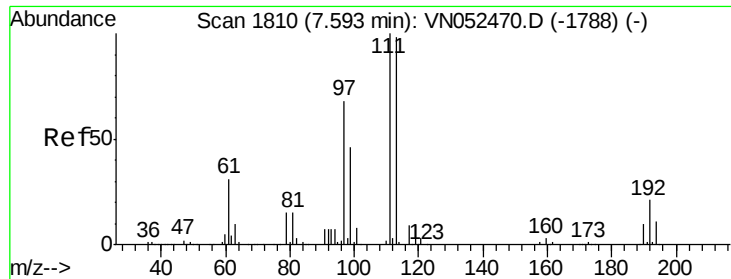
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200000

0

Time-->

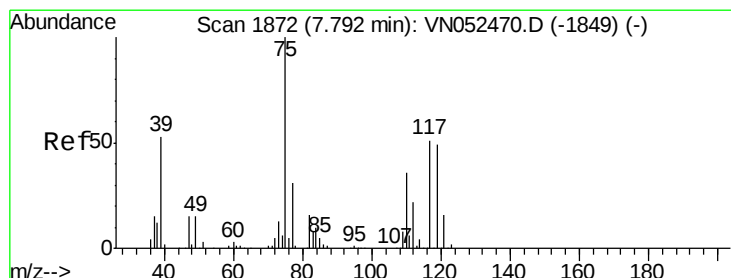
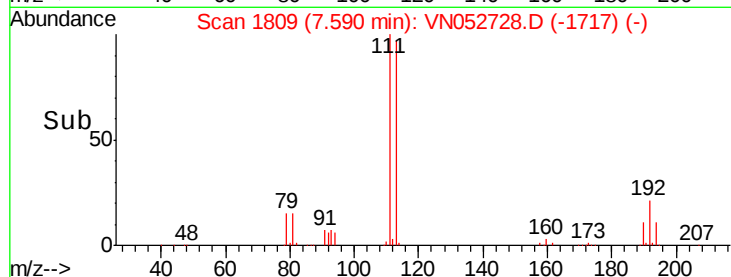
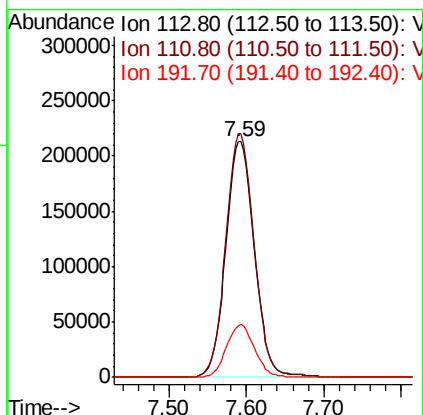
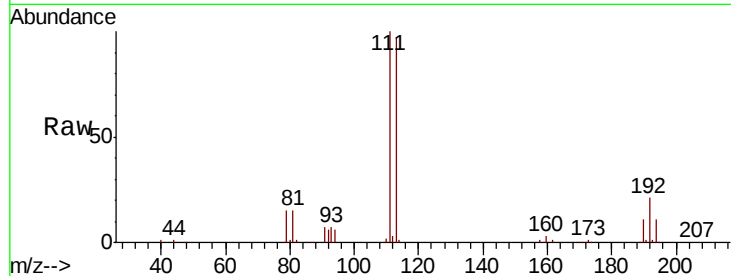




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052728.D
 Acq: 7 Dec 2018 15:52

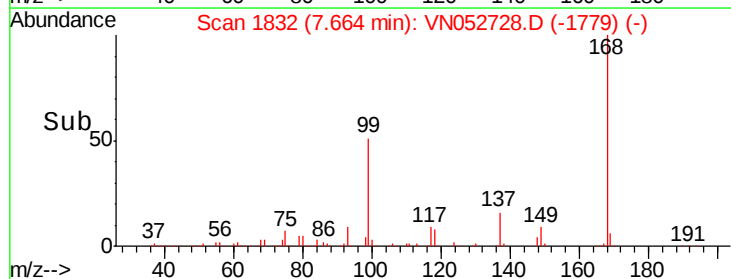
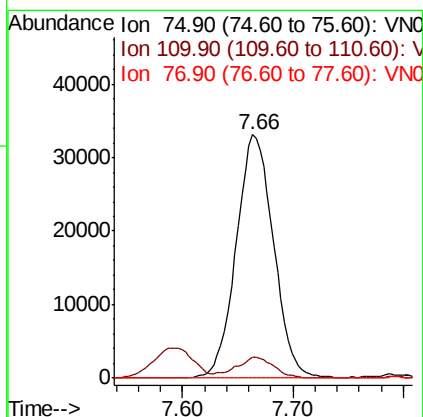
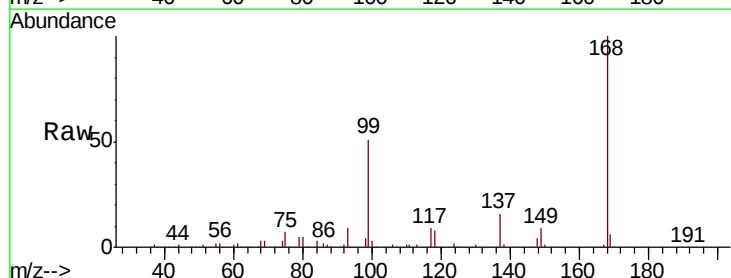
Instrument :
 MSVOA_N
 ClientSampled :
 TW-3

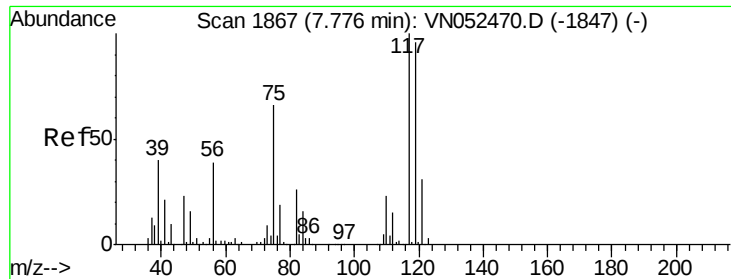
Tot Ion:113 Resp: 545772
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.0 123.0
 192 21.9 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 4.698 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052728.D
 Acq: 7 Dec 2018 15:52

Tgt Ion: 75 Resp: 77699
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.5 52.6#
 77 0.0 24.5 36.7#

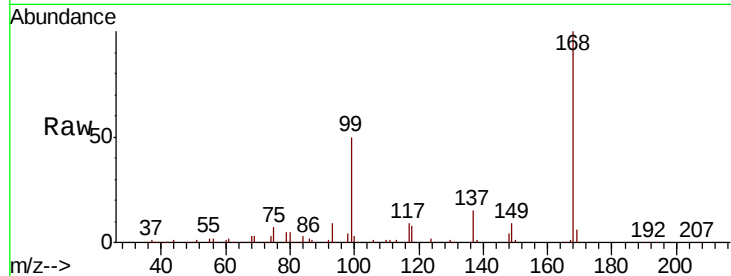




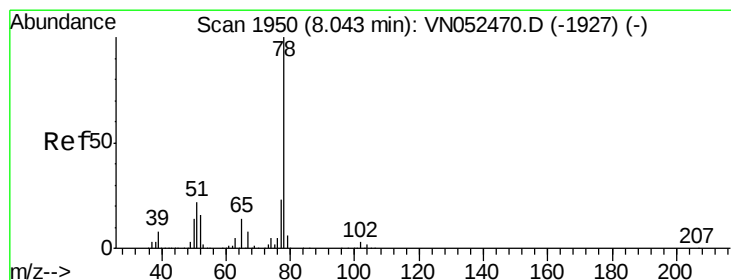
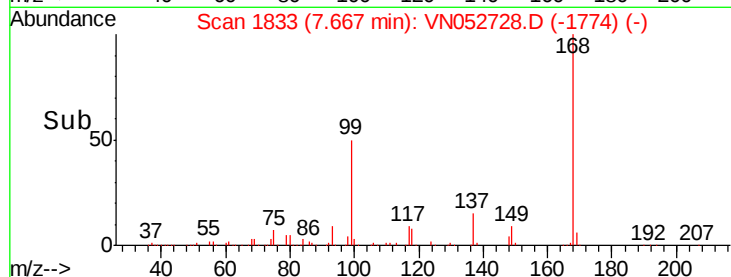
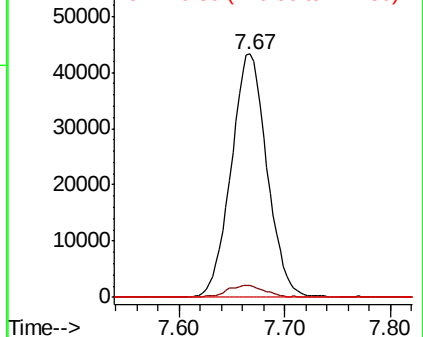
#38
Carbon Tetrachloride
Concen: 6.809 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

Instrument :
MSVOA_N
ClientSampled :
TW-3

Tot Ion:117 Resp: 101952
Ion Ratio Lower Upper
117 100
119 4.8 76.8 115.2#
121 0.0 24.9 37.3#

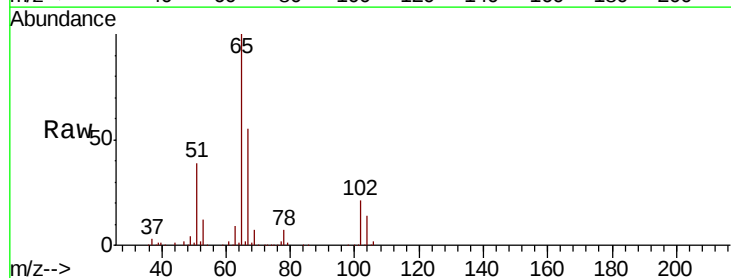


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

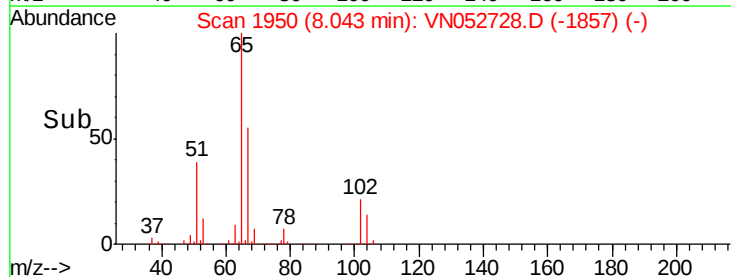
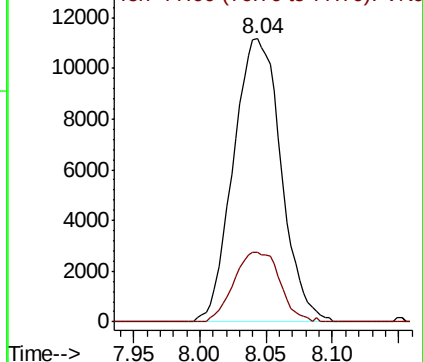


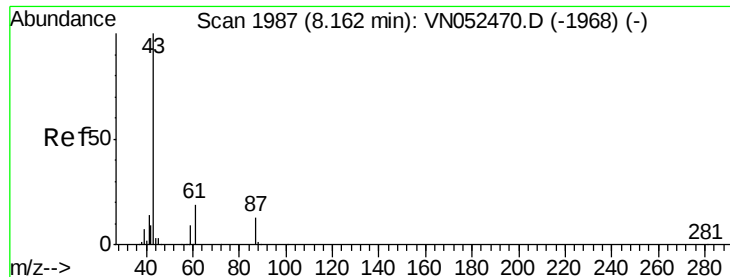
#40
Benzene
Concen: 0.566 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

Tgt Ion: 78 Resp: 27887
Ion Ratio Lower Upper
78 100
77 24.5 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 1.304 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.07 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_N

ClientSampled :

TW-3

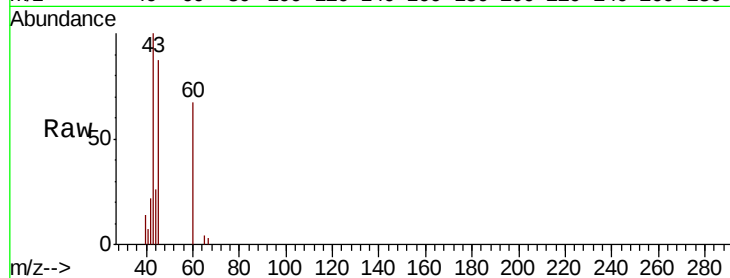
Tot Ion: 43 Resp: 22270

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

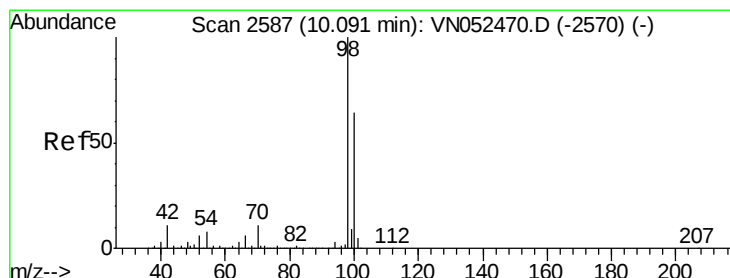
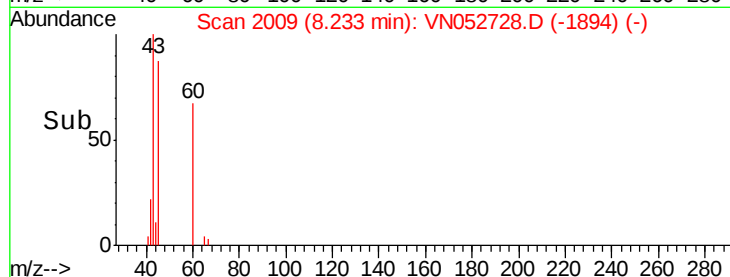
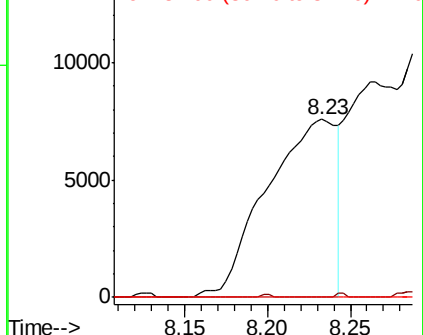
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052728.D

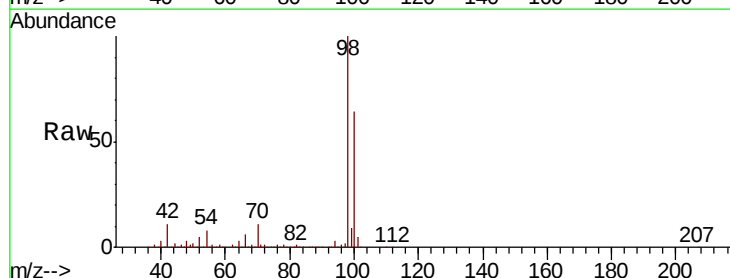
Acq: 7 Dec 2018 15:52

Tgt Ion: 98 Resp: 2127294

Ion Ratio Lower Upper

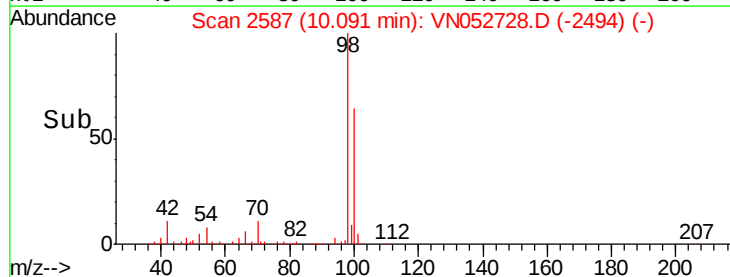
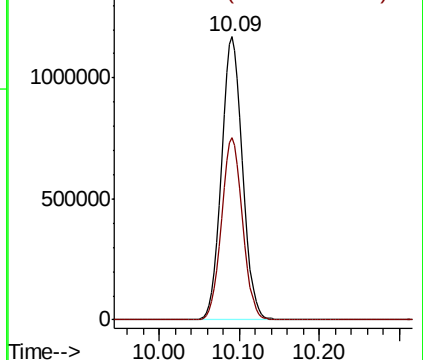
98 100

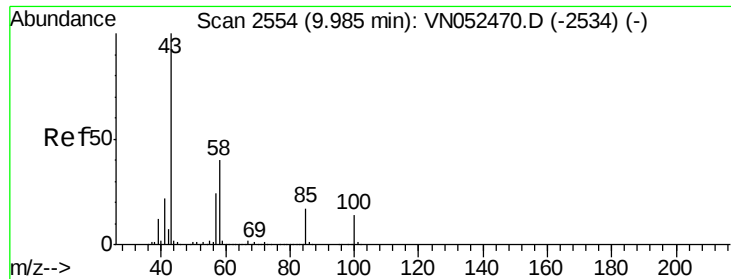
100 64.3 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.213 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_N

ClientSampled :

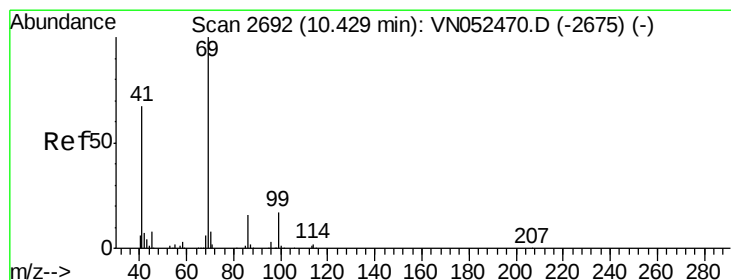
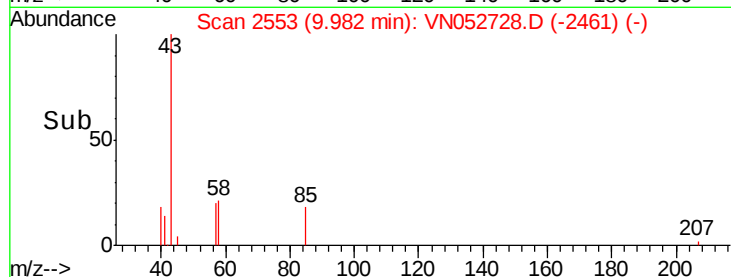
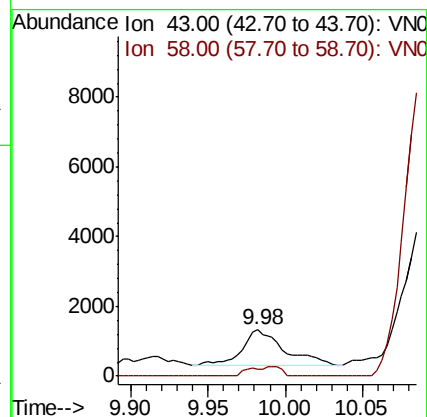
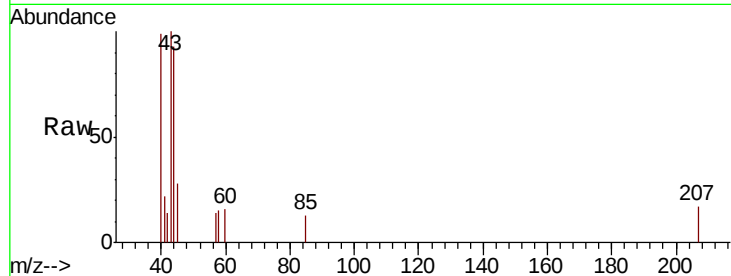
TW-3

Tot Ion: 43 Resp: 2037

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



#56

Ethyl methacrylate

Concen: 2.695 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

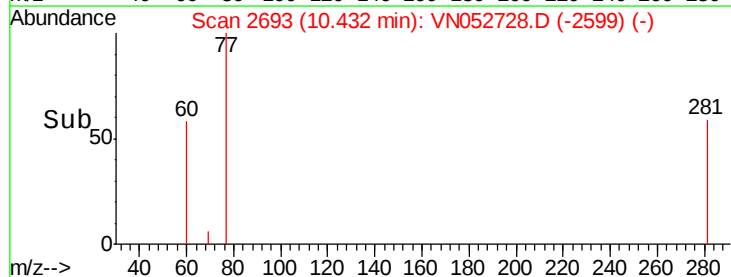
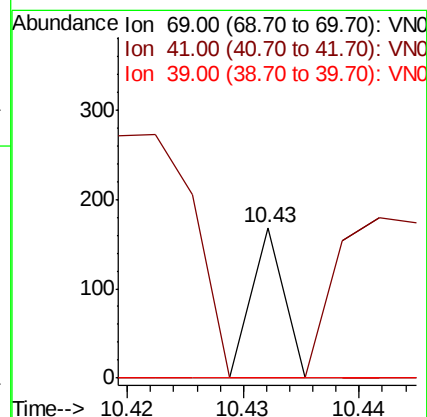
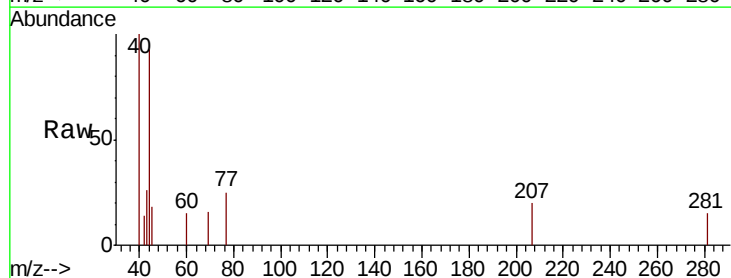
Tgt Ion: 69 Resp: 32

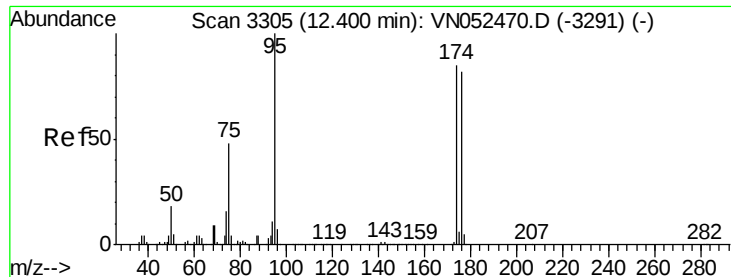
Ion Ratio Lower Upper

69 100

41 515.6 52.6 79.0#

39 0.0 25.9 38.9#

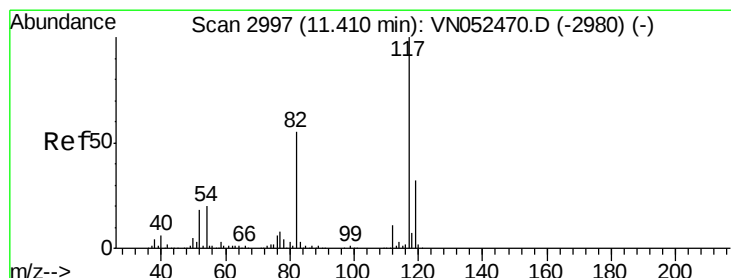
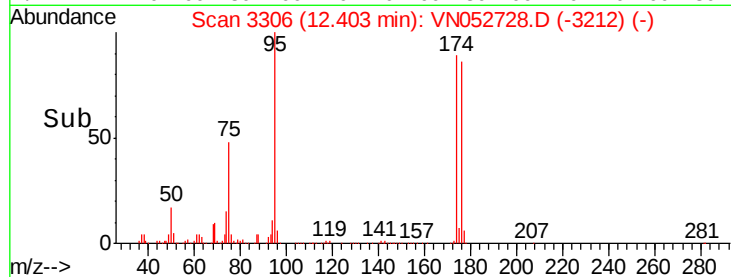
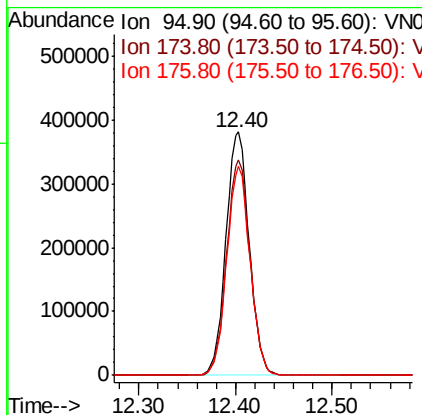
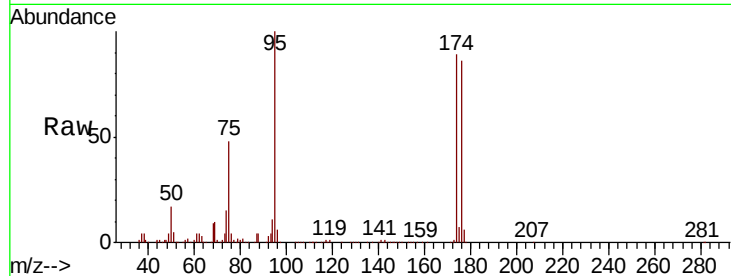




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

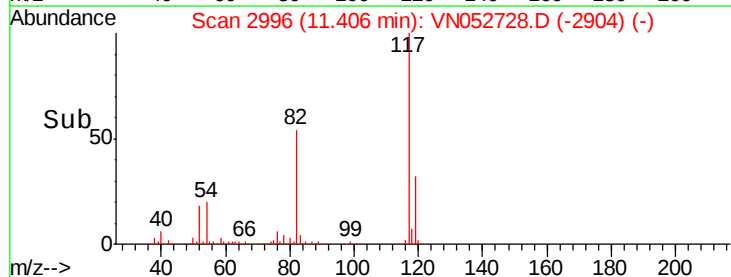
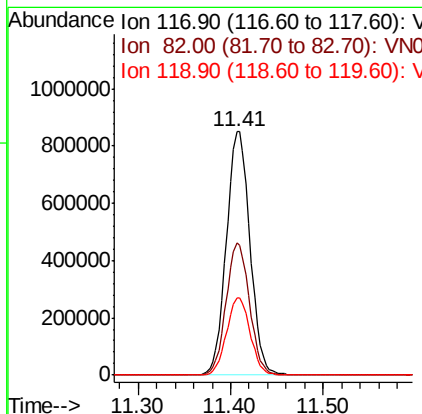
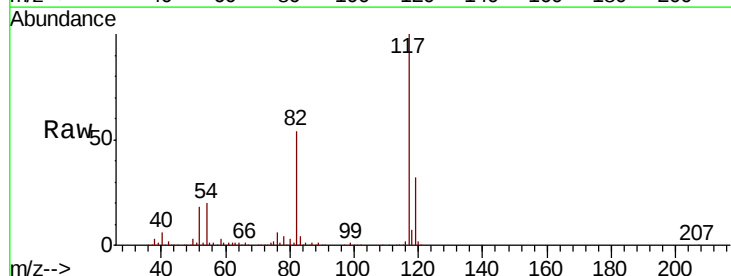
Instrument :
MSVOA_N
ClientSampled :
TW-3

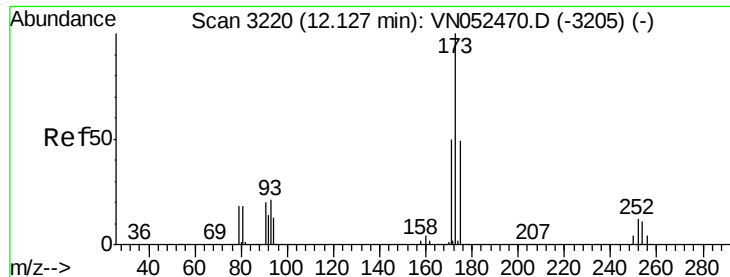
Tot Ion: 95 Resp: 636902
Ion Ratio Lower Upper
95 100
174 88.5 0.0 173.0
176 85.5 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052728.D
Acq: 7 Dec 2018 15:52

Tgt Ion: 117 Resp: 1497050
Ion Ratio Lower Upper
117 100
82 54.2 43.6 65.4
119 31.9 25.4 38.2





#71

Bromoform

Concen: 0.562 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_N

ClientSampleId :

TW-3

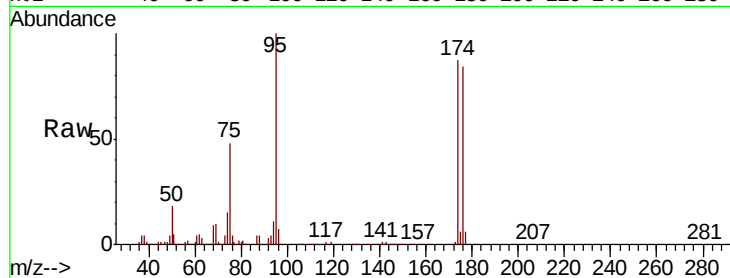
Tot Ion:173 Resp: 3997

Ion Ratio Lower Upper

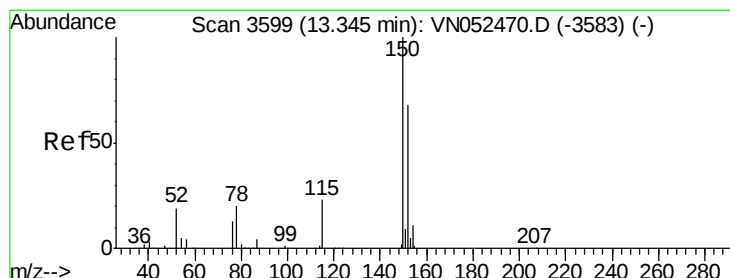
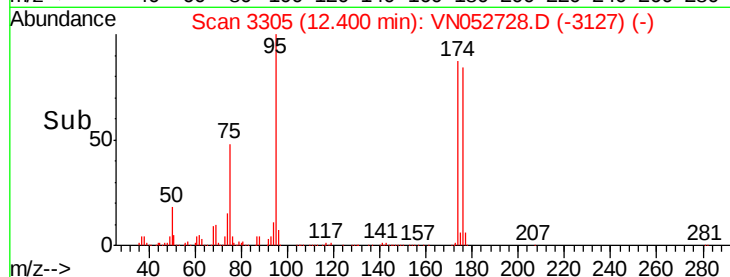
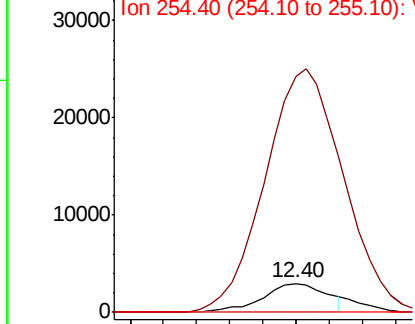
173 100

175 878.7 24.4 73.2#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

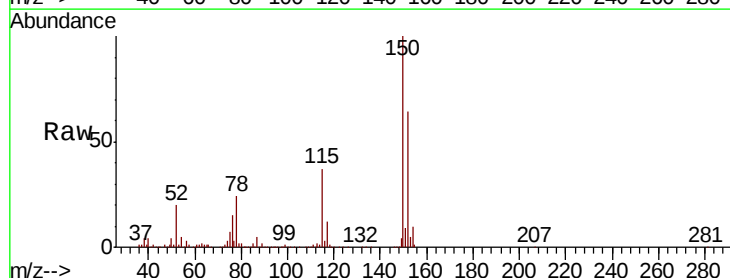
Tgt Ion:152 Resp: 524651

Ion Ratio Lower Upper

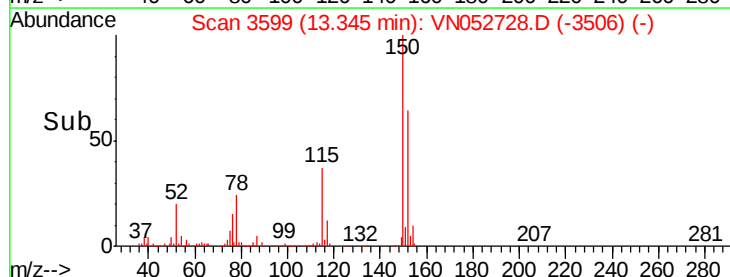
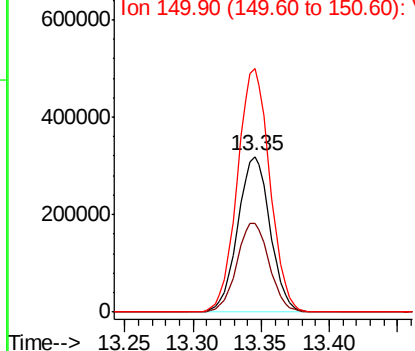
152 100

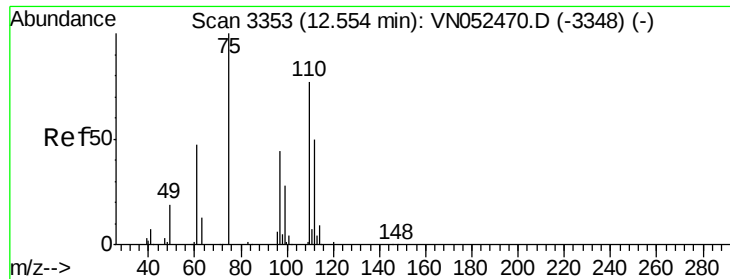
115 57.3 28.4 85.2

150 157.5 0.0 346.0



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: 37.948 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_N

ClientSampled :

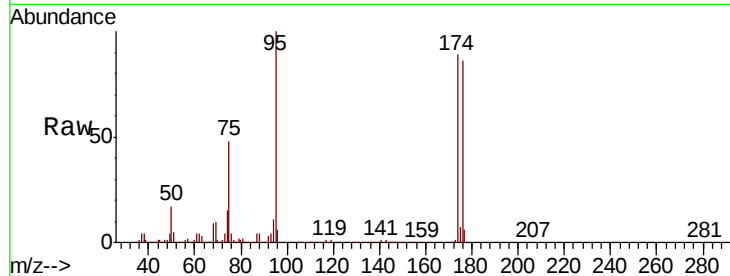
TW-3

Tot Ion: 75 Resp: 307018

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

200000

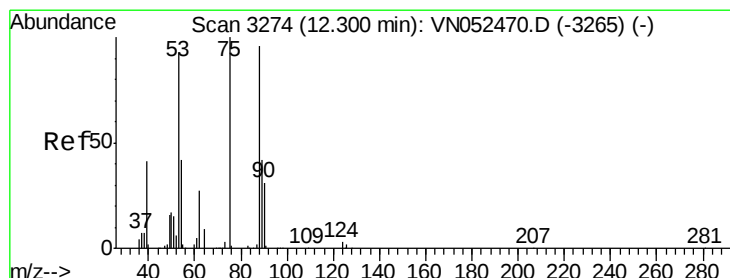
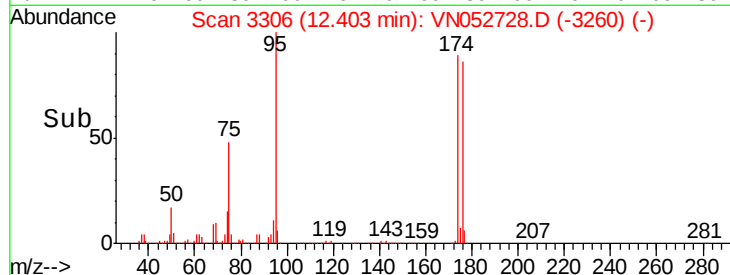
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 126.730 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

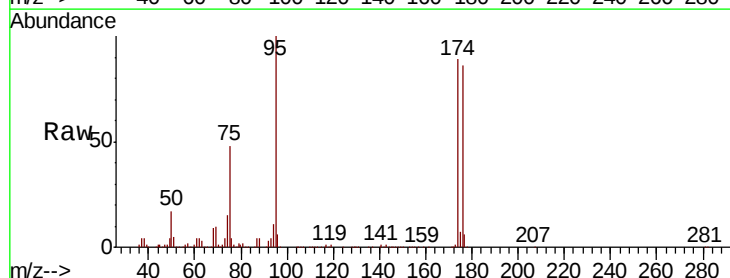
Tgt Ion: 75 Resp: 307018

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

250000

200000

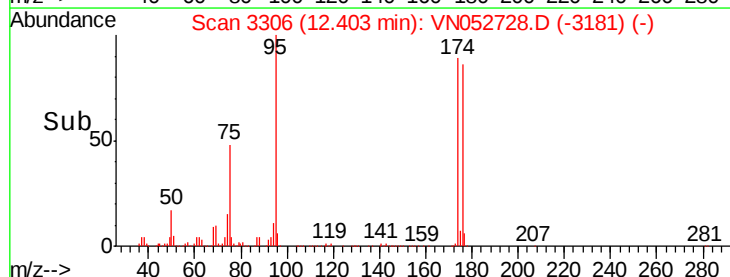
150000

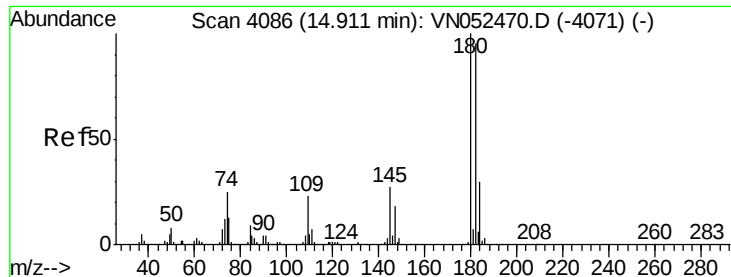
100000

50000

0

Time--> 12.30 12.40 12.50





#93

1,2,4-Trichlorobenzene

Concen: 3.220 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

Instrument :

MSVOA_N

ClientSampleId :

TW-3

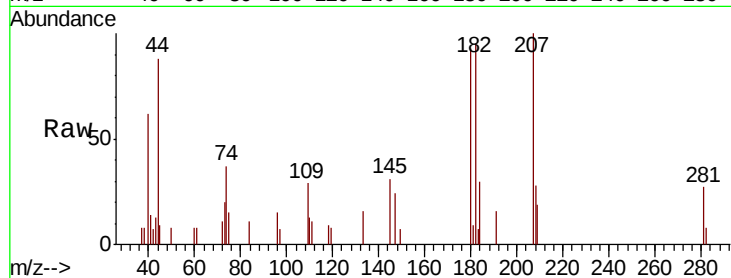
Tot Ion:180 Resp: 3858

Ion Ratio Lower Upper

180 100

182 100.5 47.8 143.4

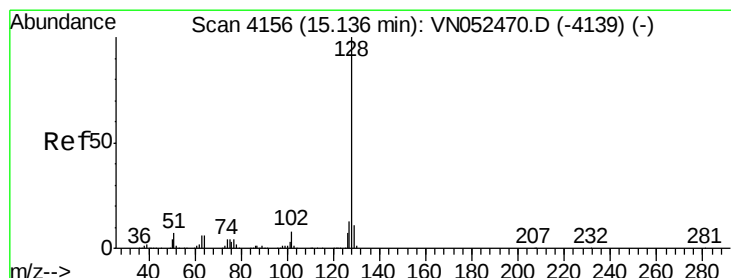
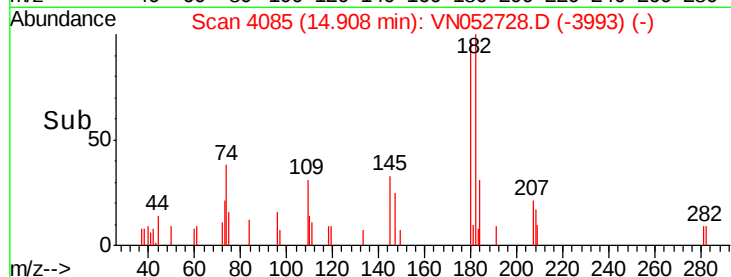
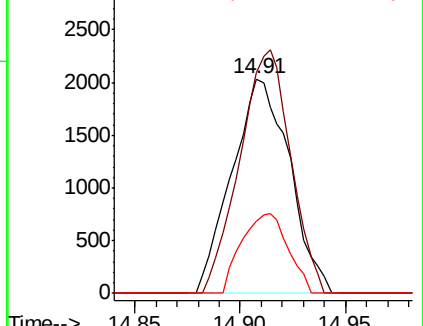
145 29.9 14.1 42.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 5.430 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052728.D

Acq: 7 Dec 2018 15:52

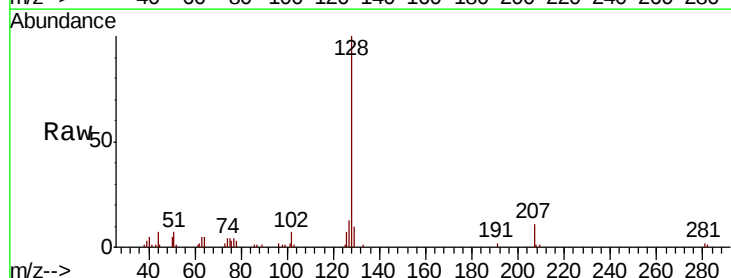
Tgt Ion:128 Resp: 42448

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

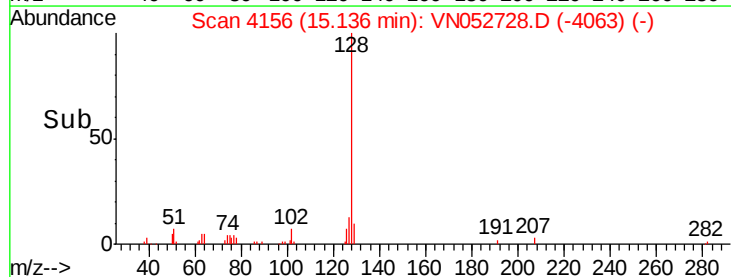
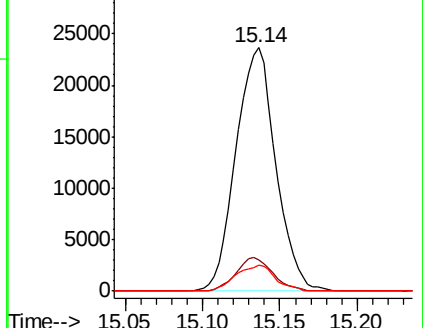
129 10.5 8.7 13.1

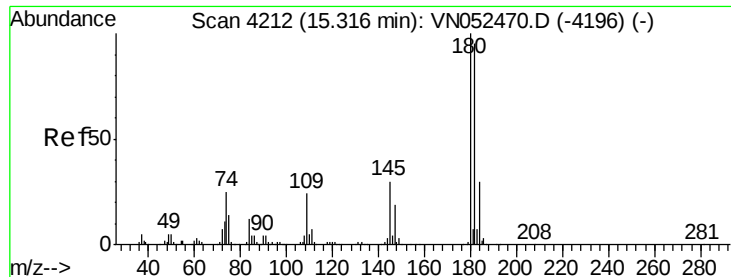


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

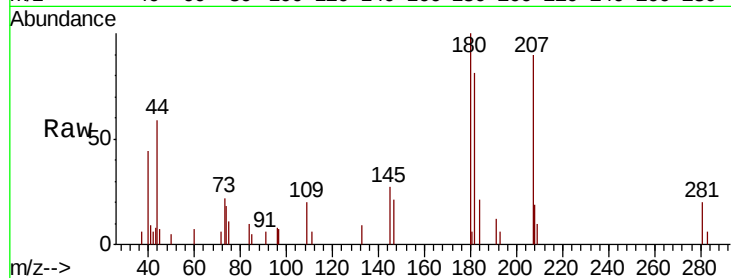




#96
 1,2,3-Trichlorobenzene
 Concen: 3.285 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052728.D
 Acq: 7 Dec 2018 15:52

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-3

Tot Ion	Ratio	Lower	Upper
180	100		
182	83.7	47.8	143.3
145	31.2	15.2	45.5



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

