

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052743.D
 Acq On : 10 Dec 2018 10:26
 Operator : MD\SY
 Sample : VN1210WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1210WBL01

Quant Time: Dec 11 00:47:20 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	7.19	128	166015	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	971040	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	821630	30.00	ug/l	0.00

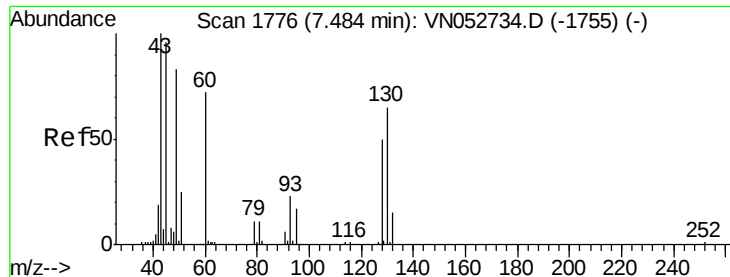
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	335853	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	12.40	95	357315	28.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.80%
63) Toluene-d8	10.09	98	1125678	29.55	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.50%

Target Compounds

					Ovalue	
5) Bromomethane	2.58	94	1601	0.222	ug/l	96
12) Methyl Acetate	4.33	43	2568	0.325	ug/l #	85
15) Acetone	3.83	58	241	0.276	ug/l #	1
50) 1,1,2-Trichloroethane	10.10	97	31188	3.407	ug/l #	1
51) Ethyl methacrylate	10.10	69	3225	0.280	ug/l	92
55) 2-Chloroethyl vinyl ether	9.69	63	2084	0.310	ug/l #	78
56) Bromoform	12.40	173	2493	0.378	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	172302	62.191	ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	2627	0.280	ug/l	97
90) Hexachlorobutadiene	15.01	225	2514	0.409	ug/l	89
91) Naphthalene	15.14	128	7508	0.397	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.32	180	3405	0.394	ug/l	78

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

Instrument :

MSVOA_N

ClientSampleId :

VN1210WBL01

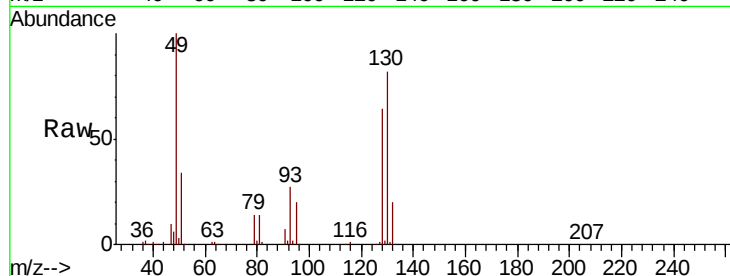
Tot Ion:128 Resp: 166015

Ion Ratio Lower Upper

128 100

49 160.0 0.0 431.8

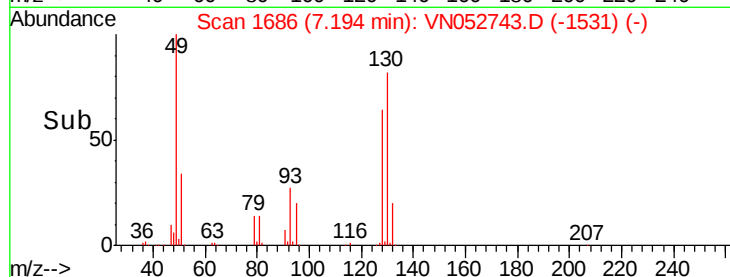
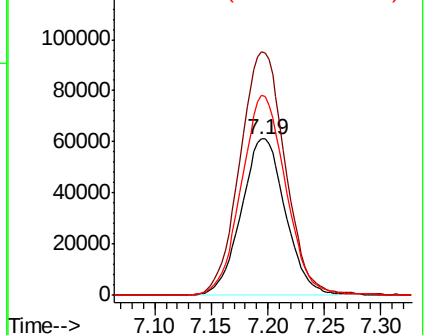
130 129.0 0.0 317.0



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



#5

Bromomethane

Concen: 0.222 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.00 min

Lab File: VN052743.D

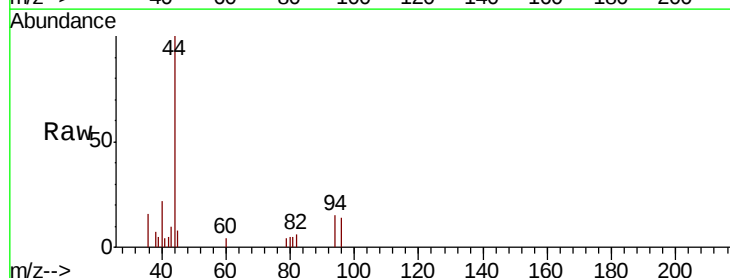
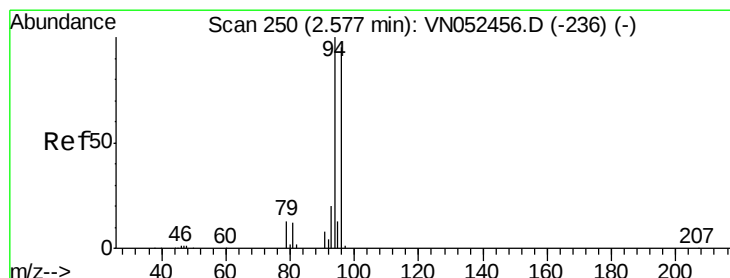
Acq: 10 Dec 2018 10:26

Tgt Ion: 94 Resp: 1601

Ion Ratio Lower Upper

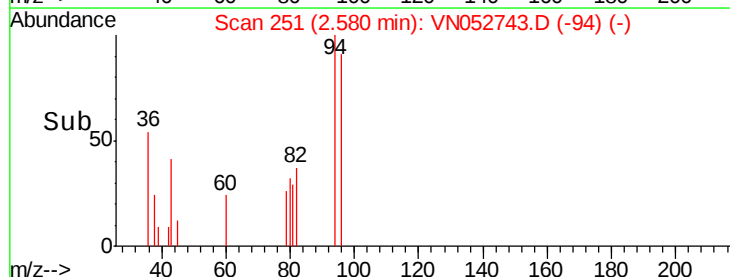
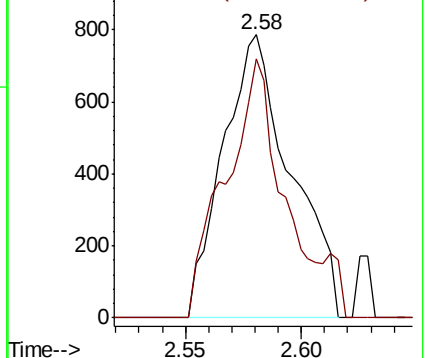
94 100

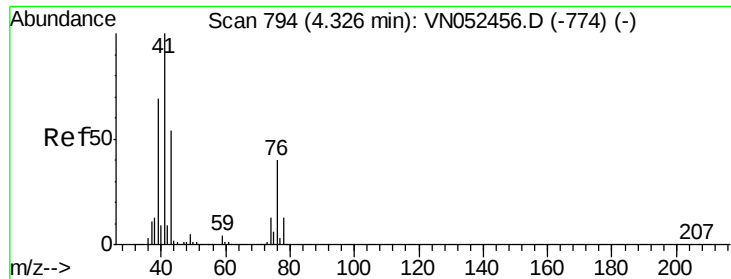
96 91.3 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

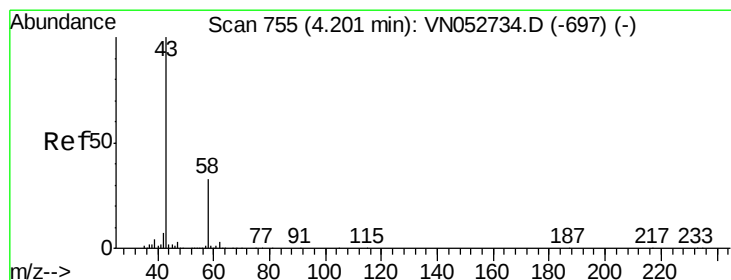
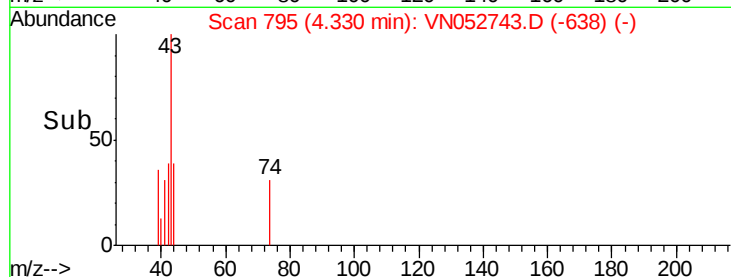
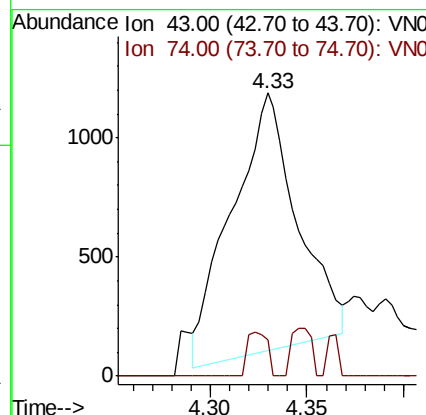
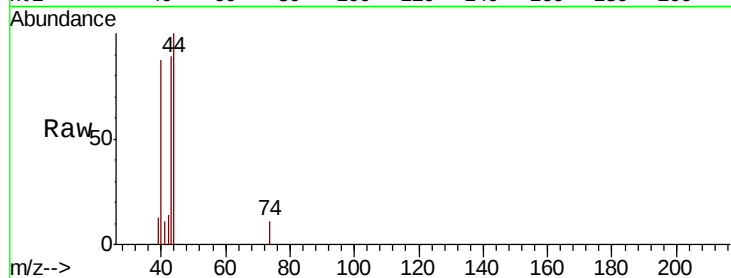




#12
Methyl Acetate
Concen: 0.325 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052743.D
Acq: 10 Dec 2018 10:26

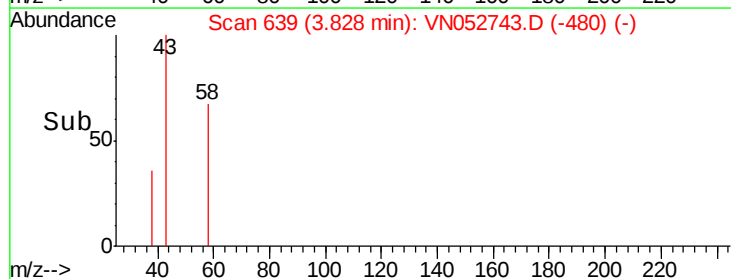
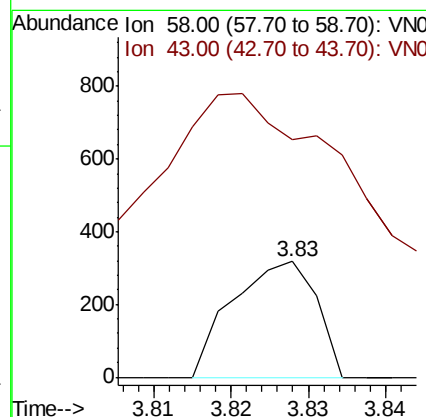
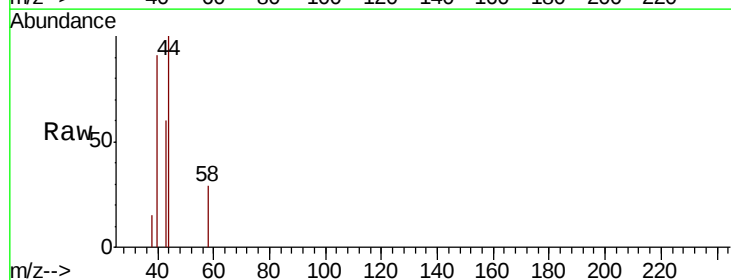
Instrument :
MSVOA_N
ClientSampled :
VN1210WBL01

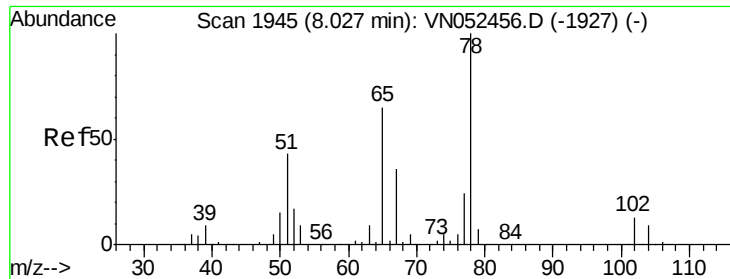
Tot Ion: 43 Resp: 2568
Ion Ratio Lower Upper
43 100
74 16.1 18.9 28.3#



#15
Acetone
Concen: 0.276 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN052743.D
Acq: 10 Dec 2018 10:26

Tgt Ion: 58 Resp: 241
Ion Ratio Lower Upper
58 100
43 13.8 243.6 365.4#





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

Instrument :

MSVOA_N

ClientSampleId :

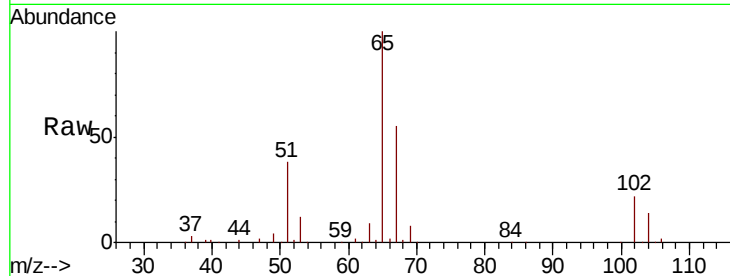
VN1210WBL01

Tot Ion: 65 Resp: 335853

Ion Ratio Lower Upper

65 100

67 55.1 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.03

150000

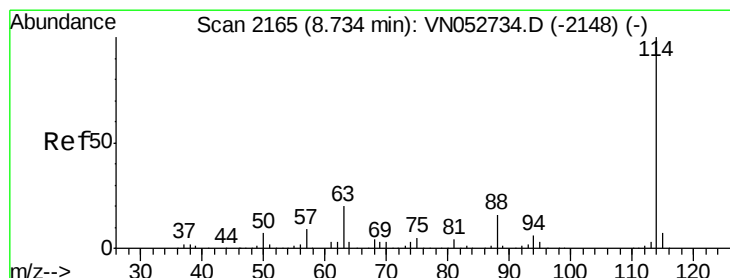
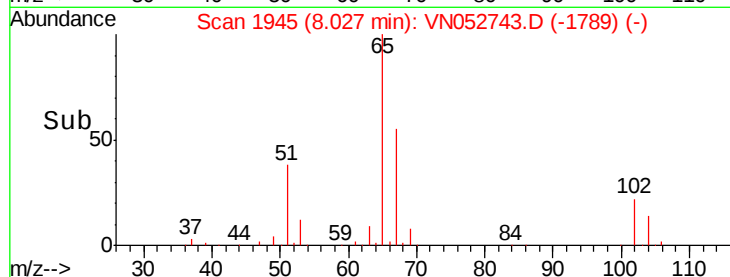
100000

50000

0

Time-->

7.95 8.00 8.05 8.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

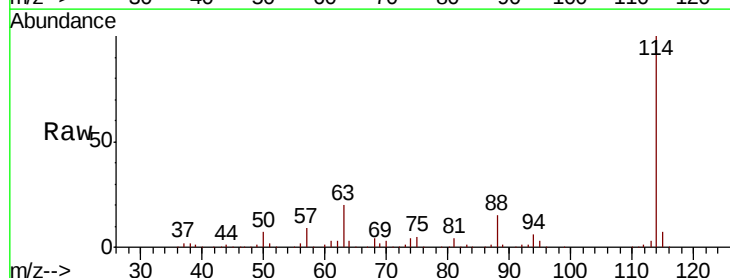
Tgt Ion: 114 Resp: 971040

Ion Ratio Lower Upper

114 100

63 19.9 16.9 25.3

88 15.5 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

8.58

600000

500000

400000

300000

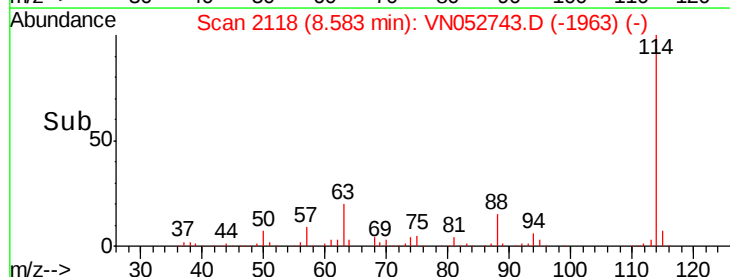
200000

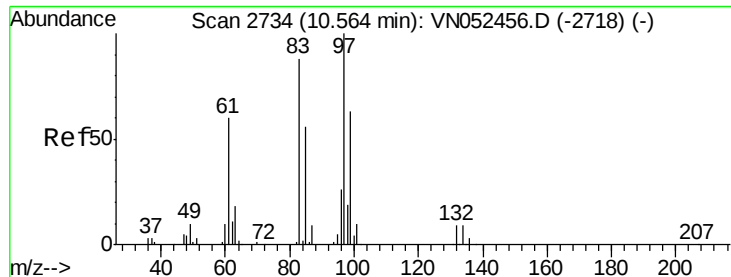
100000

0

Time-->

8.50 8.60 8.70

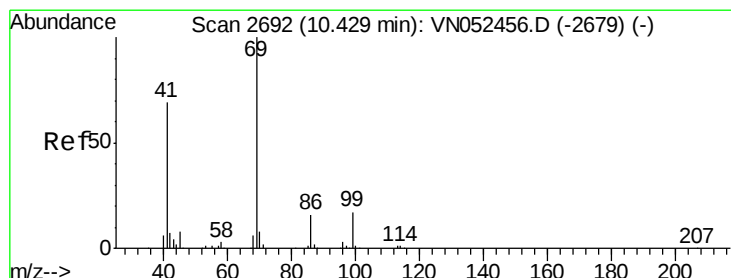
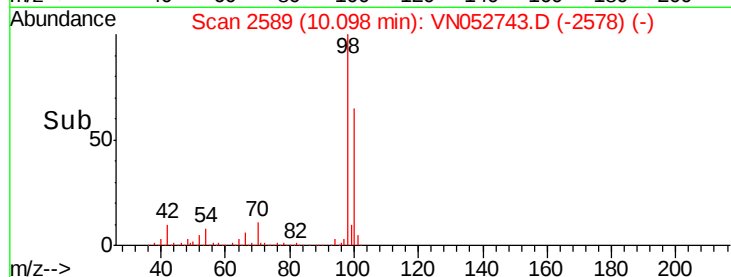
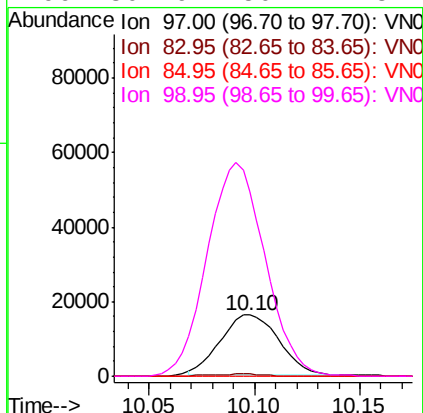
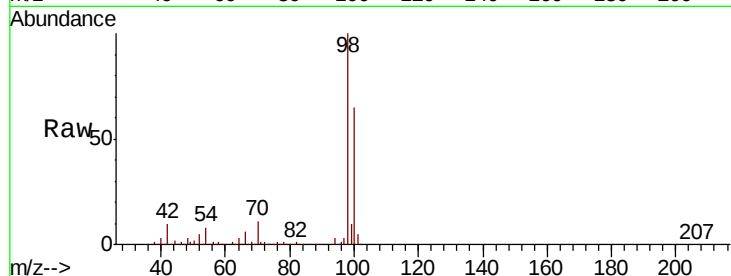




#50
 1,1,2-Trichloroethane
 Concen: 3.407 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.47 min
 Lab File: VN052743.D
 Acq: 10 Dec 2018 10:26

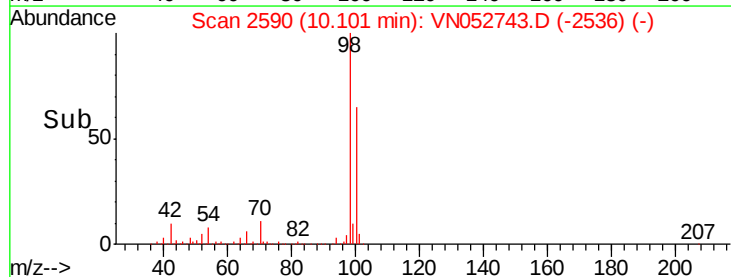
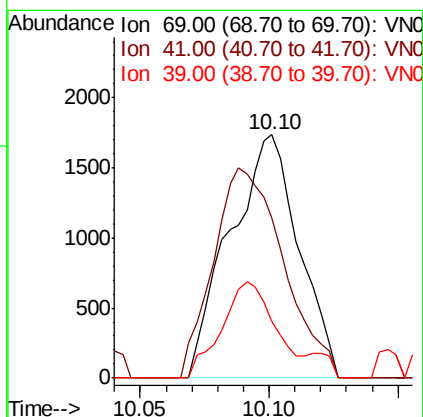
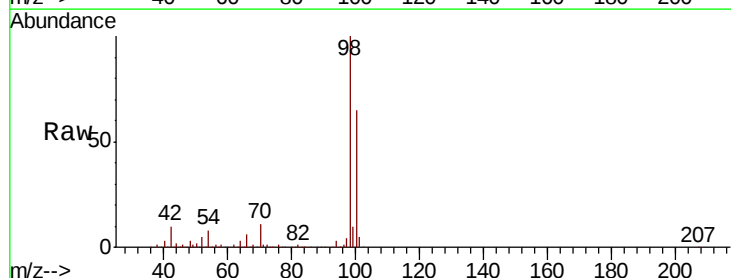
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1210WBL01

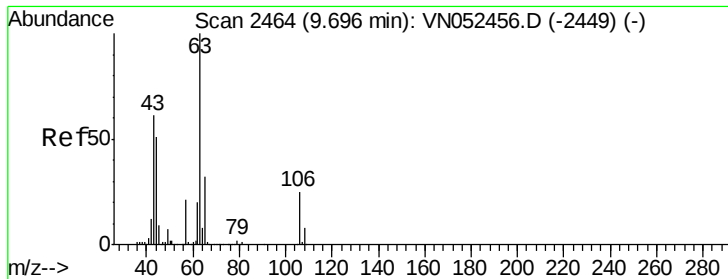
Tot Ion	97	Resp	31188
Ion Ratio	Lower	Upper	
97	100		
83	3.8	70.4	105.6#
85	0.0	45.0	67.6#
99	304.9	50.2	75.2#



#51
 Ethyl methacrylate
 Concen: 0.280 ug/l
 RT: 10.10 min Scan# 2590
 Delta R.T. -0.33 min
 Lab File: VN052743.D
 Acq: 10 Dec 2018 10:26

Tgt Ion	69	Resp	3225
Ion Ratio	Lower	Upper	
69	100		
41	65.9	34.4	103.3
39	23.4	16.4	49.2





#55

2-Chloroethyl vinyl ether

Concen: 0.310 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

Instrument :

MSVOA_N

ClientSampleId :

VN1210WBL01

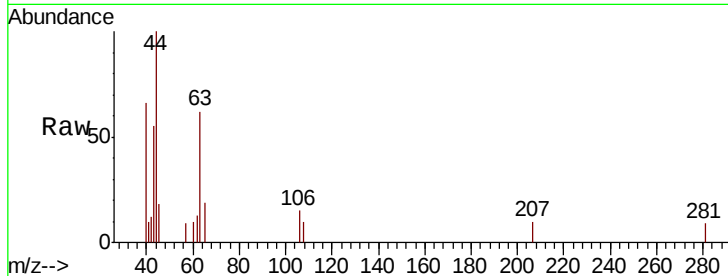
Tot Ion: 63 Resp: 2084

Ion Ratio Lower Upper

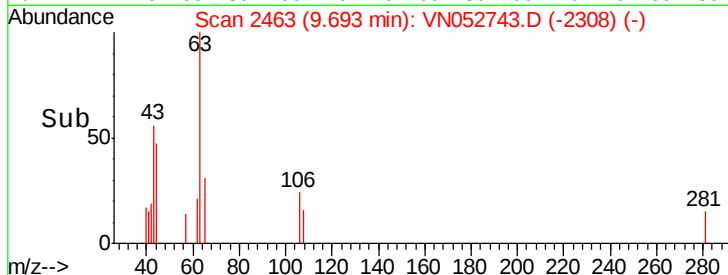
63 100

65 16.8 25.4 38.2#

106 18.0 20.4 30.6#



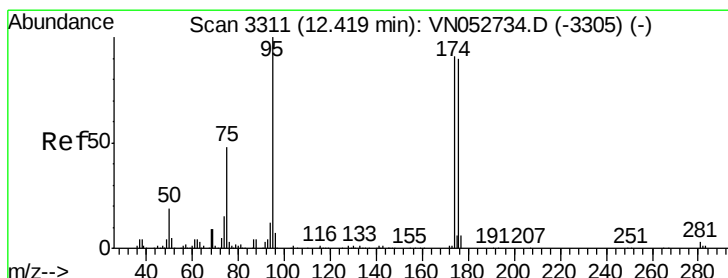
Abundance Ion 63.00 (62.70 to 63.70): VN052743.D (-2308) (-)



Ion 65.00 (64.70 to 65.70): VN052743.D (-2308) (-)

Ion 106.00 (105.70 to 106.70): VN052743.D (-2308) (-)

Time-->



#56

Bromoform

Concen: 0.378 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

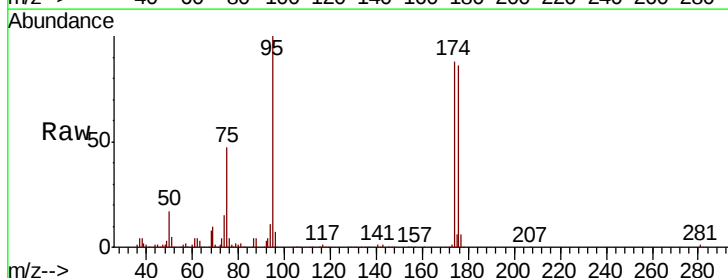
Tgt Ion: 173 Resp: 2493

Ion Ratio Lower Upper

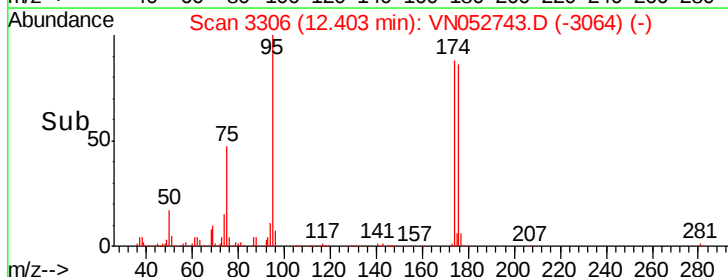
173 100

175 917.2 38.7 58.1#

254 0.0 8.4 12.6#



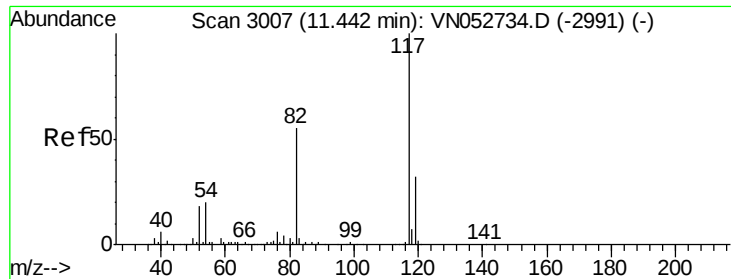
Abundance Ion 173.00 (172.70 to 173.70): VN052743.D (-3064) (-)



Ion 175.00 (174.70 to 175.70): VN052743.D (-3064) (-)

Ion 254.00 (253.70 to 254.70): VN052743.D (-3064) (-)

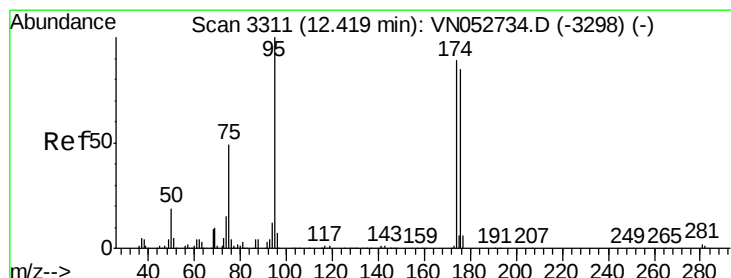
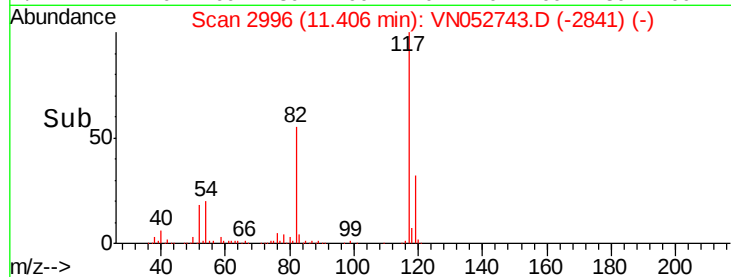
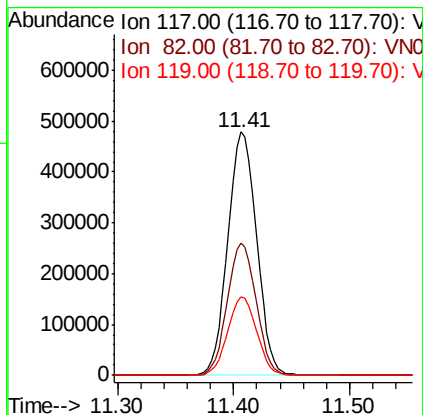
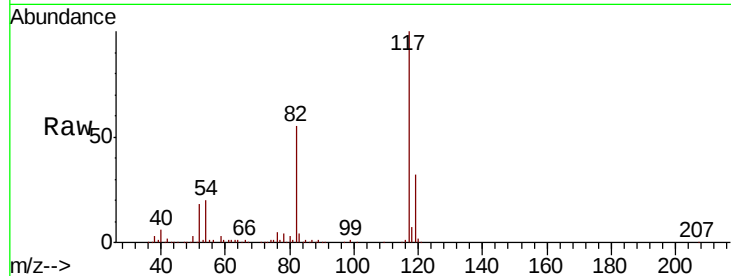
Time-->



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052743.D
Acq: 10 Dec 2018 10:26

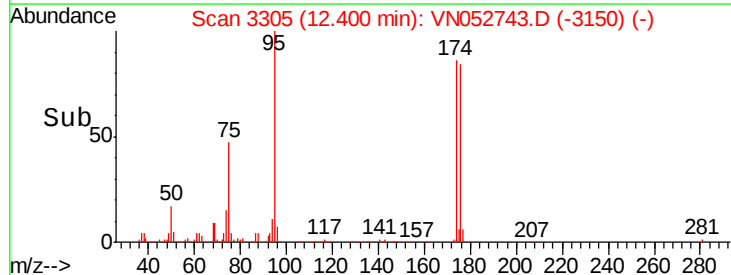
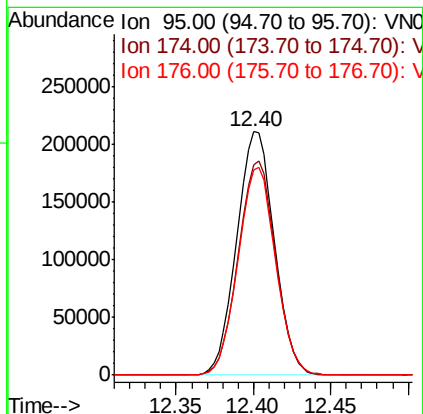
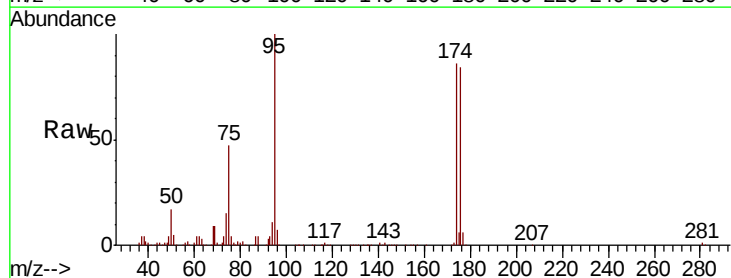
Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

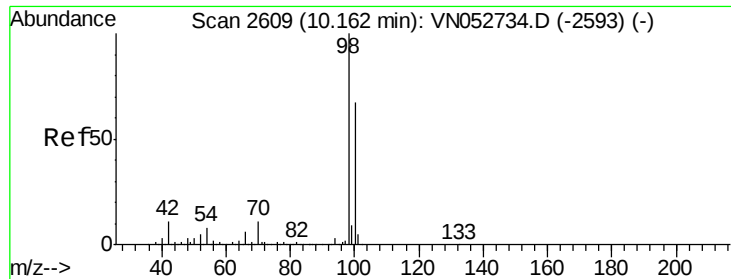
Tot Ion:117 Resp: 821630
Ion Ratio Lower Upper
117 100
82 54.3 44.2 66.2
119 32.4 25.4 38.2



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052743.D
Acq: 10 Dec 2018 10:26

Tgt Ion: 95 Resp: 357315
Ion Ratio Lower Upper
95 100
174 87.6 67.9 101.9
176 85.2 66.4 99.6





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

Instrument :

MSVOA_N

ClientSampleId :

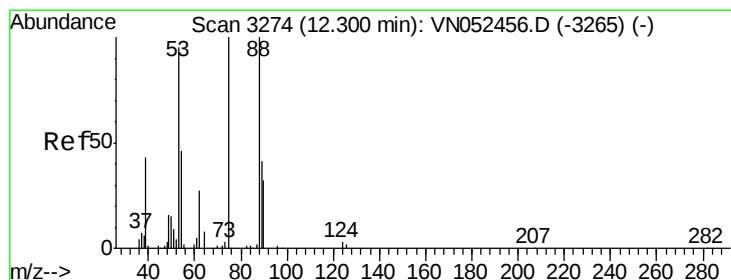
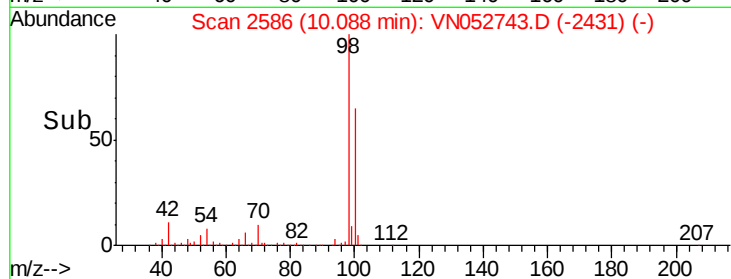
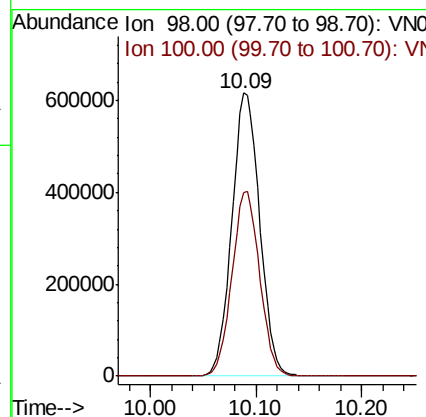
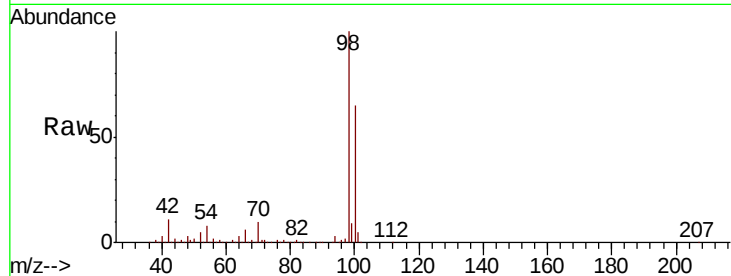
VN1210WBL01

Tot Ion: 98 Resp: 1125678

Ion Ratio Lower Upper

98 100

100 64.8 51.1 76.7



#77

t-1,4-Dichloro-2-butene

Concen: 62.191 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

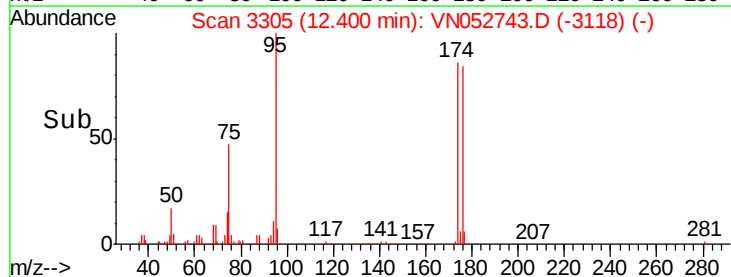
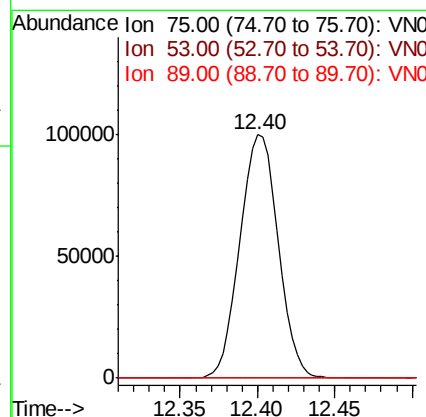
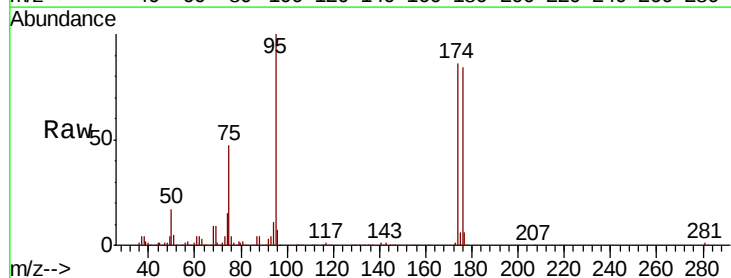
Tgt Ion: 75 Resp: 172302

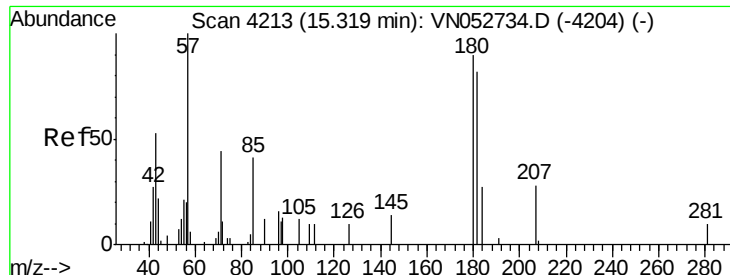
Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#

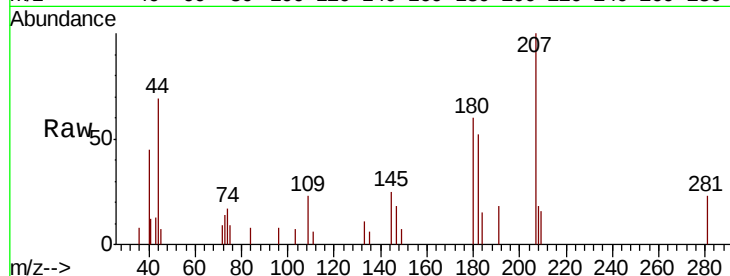




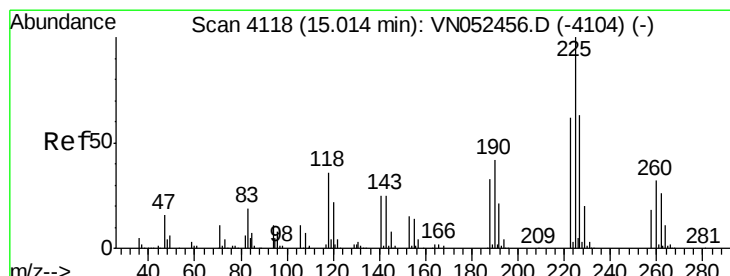
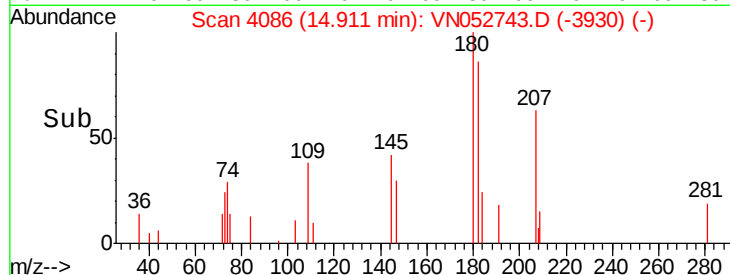
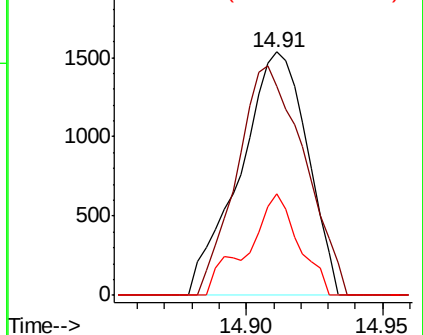
#89
 1,2,4-Trichlorobenzene
 Concen: 0.280 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052743.D
 Acq: 10 Dec 2018 10:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1210WBL01

Tot Ion:180 Resp: 2627
 Ion Ratio Lower Upper
 180 100
 182 94.5 76.6 114.8
 145 25.2 23.6 35.4

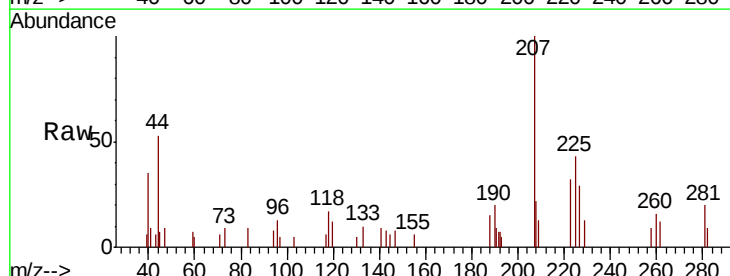


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

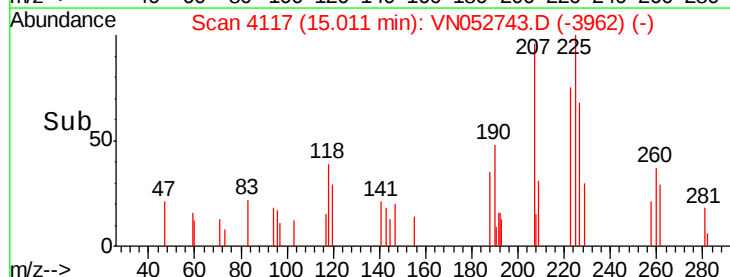
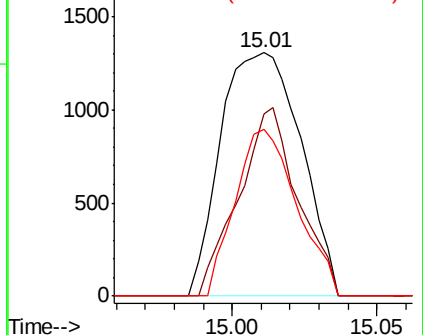


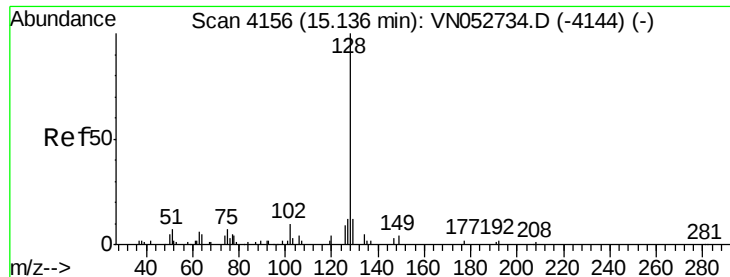
#90
 Hexachlorobutadiene
 Concen: 0.409 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052743.D
 Acq: 10 Dec 2018 10:26

Tgt Ion:225 Resp: 2514
 Ion Ratio Lower Upper
 225 100
 223 57.3 0.0 125.6
 227 52.7 0.0 127.8



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 0.397 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

Instrument :

MSVOA_N

ClientSampleId :

VN1210WBL01

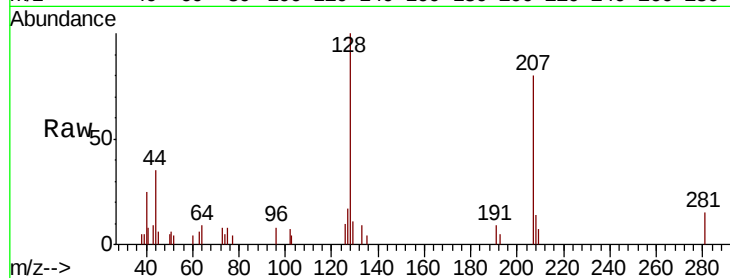
Tot Ion:128 Resp: 7508

Ion Ratio Lower Upper

128 100

127 9.4 9.9 14.9#

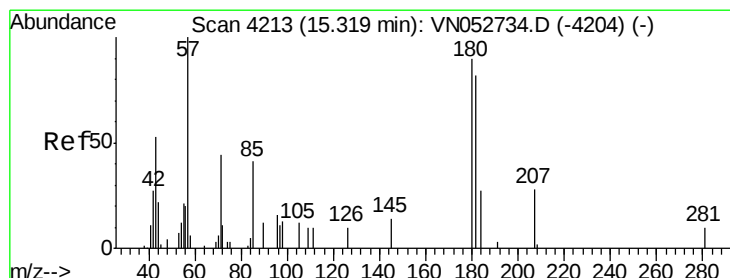
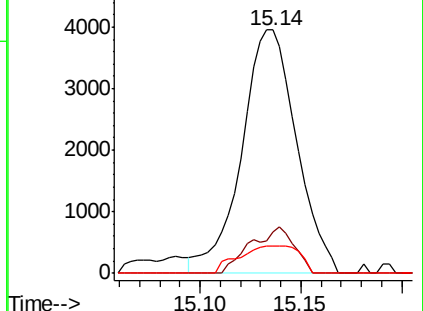
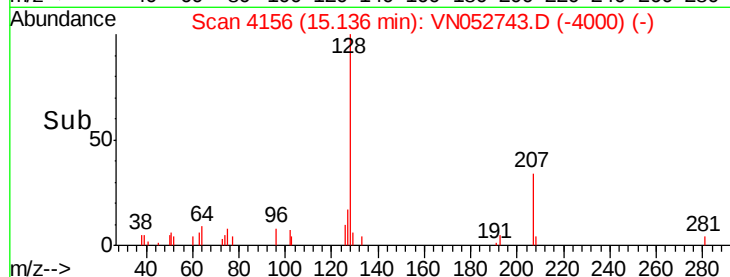
129 12.5 8.5 12.7



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: 0.394 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052743.D

Acq: 10 Dec 2018 10:26

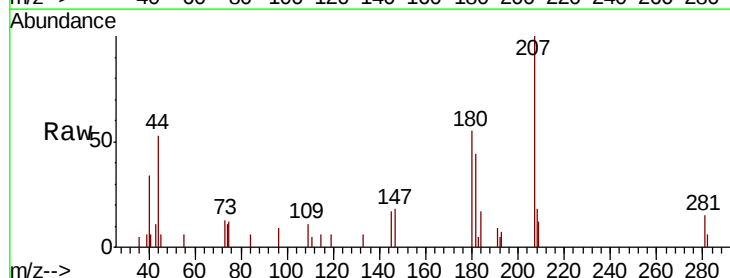
Tgt Ion:180 Resp: 3405

Ion Ratio Lower Upper

180 100

182 79.9 0.0 196.2

145 13.6 0.0 62.2



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

