

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052882.D
 Acq On : 14 Dec 2018 12:09
 Operator : MD\SY
 Sample : J6401-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 02:52:39 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	156308	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	905169	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	763479	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	311586	29.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.53%
60) 4-Bromofluorobenzene	12.40	95	329855	28.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.20%
63) Toluene-d8	10.09	98	1034602	29.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.43%

Target Compounds

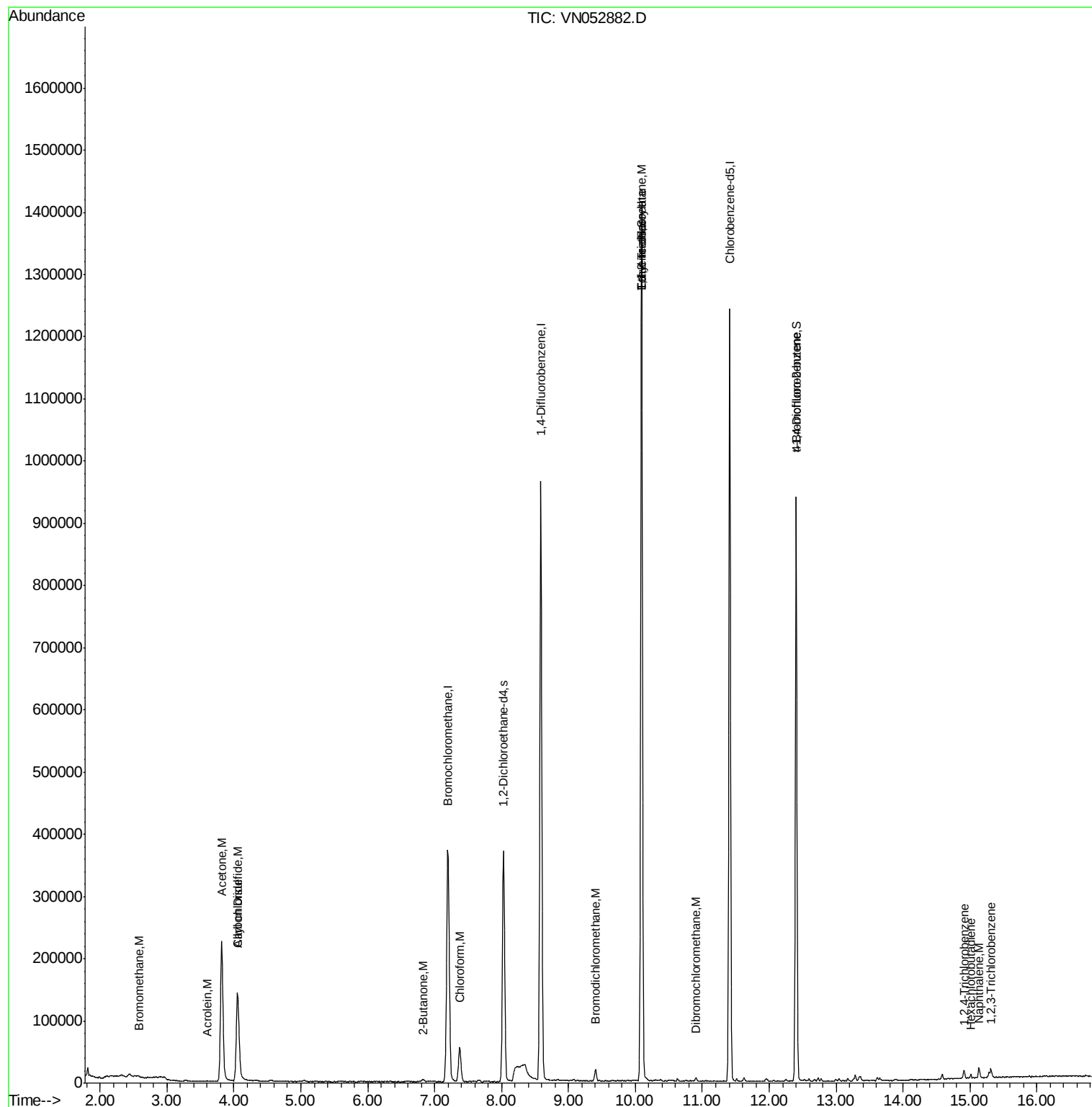
					Ovalue
5) Bromomethane	2.58	94	1366	0.201 ug/l	97
13) Acrolein	3.61	56	491	0.561 ug/l	93
15) Acetone	3.82	58	128337	156.163 ug/l	97
16) Carbon Disulfide	4.06	76	5965	0.215 ug/l	100
17) Allyl chloride	4.05	41	24135	1.579 ug/l	89
25) Chloroform	7.37	83	60615	3.432 ug/l	95
30) 2-Butanone	6.83	43	893	0.241 ug/l #	55
41) Bromodichloromethane	9.40	83	13987	1.052 ug/l	100
50) 1,1,2-Trichloroethane	10.10	97	31381	3.677 ug/l #	1
51) Ethyl methacrylate	10.09	69	2967	0.277 ug/l	79
53) Dibromochloromethane	10.90	129	3325	0.354 ug/l	93
77) t-1,4-Dichloro-2-butene	12.40	75	153874	59.770 ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	4670	0.537 ug/l	96
90) Hexachlorobutadiene	15.01	225	1412	0.247 ug/l	89
91) Naphthalene	15.13	128	14942	0.850 ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	4938	0.616 ug/l	98

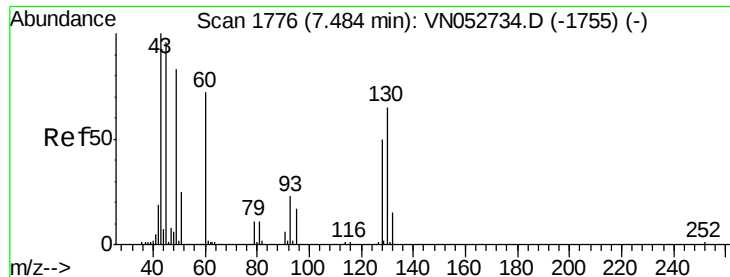
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121418\
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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# 1688

Delta R.T. 0.00 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

Instrument :
MSVOA_N
ClientSampled :

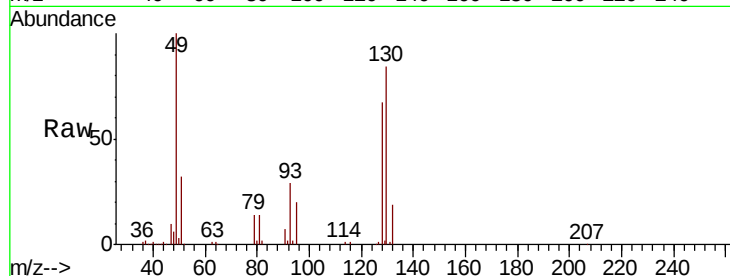
Tot Ion:128 Resp: 156308

Ion Ratio Lower Upper

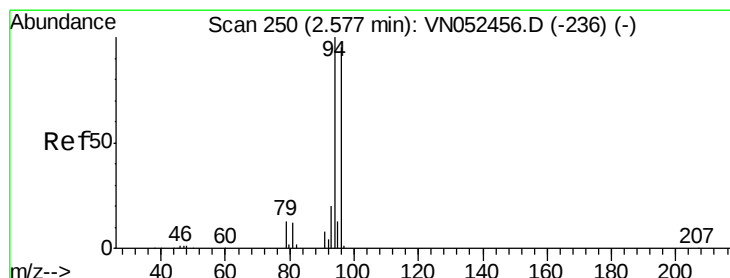
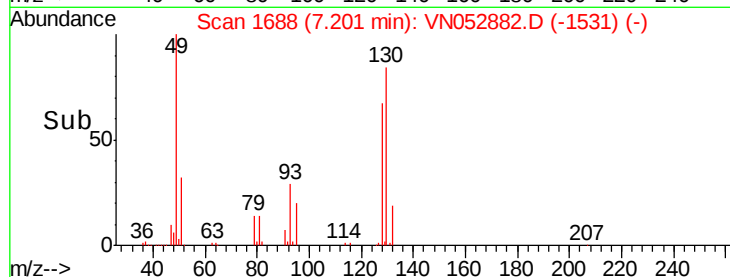
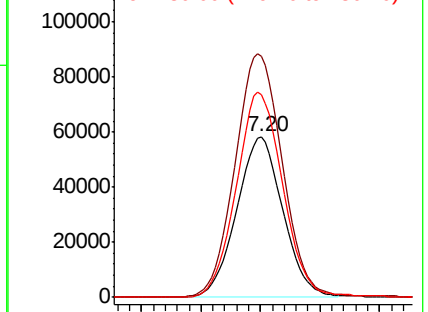
128 100

49 156.0 0.0 431.8

130 128.9 0.0 317.0



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



#5

Bromomethane

Concen: 0.201 ug/l

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN052882.D

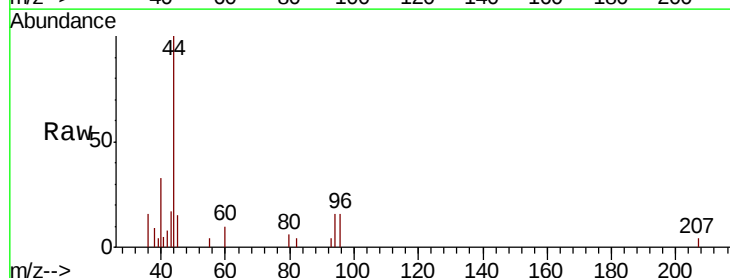
Acq: 14 Dec 2018 12:09

Tgt Ion: 94 Resp: 1366

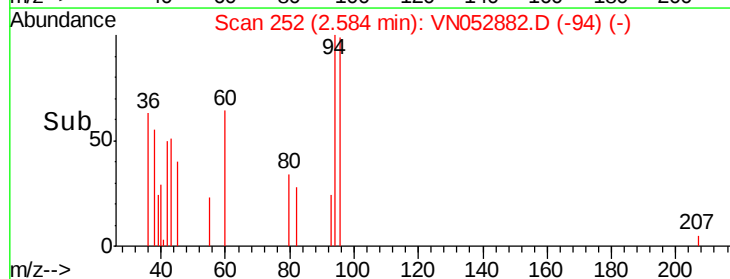
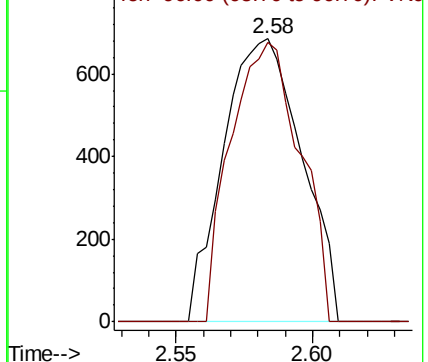
Ion Ratio Lower Upper

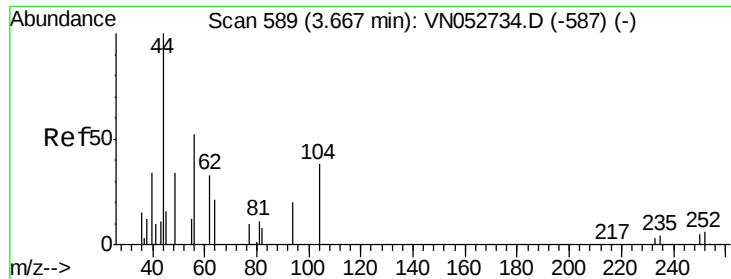
94 100

96 98.5 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VN
Ion 96.00 (95.70 to 96.70): VN





#13

Acrolein

Concen: 0.561 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

Instrument :

MSVOA_N

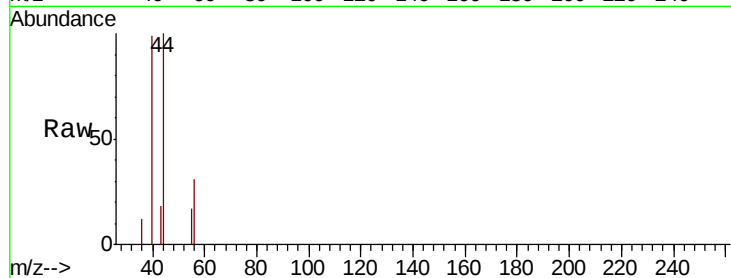
ClientSampled :

Tot Ion: 56 Resp: 491

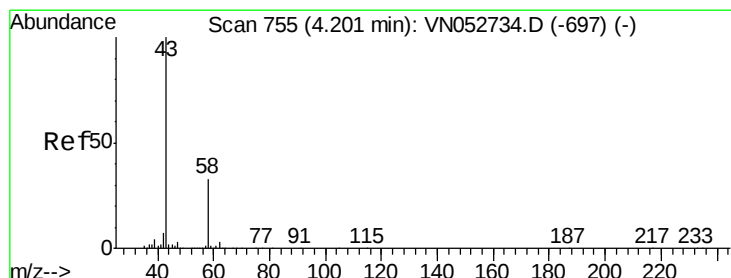
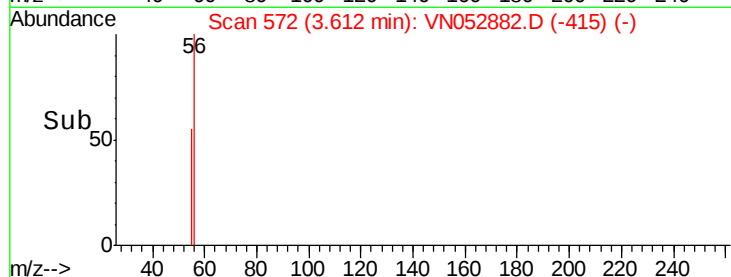
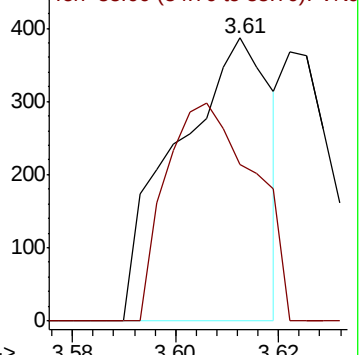
Ion Ratio Lower Upper

56 100

55 65.0 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN052882.D (-415) (-)



#15

Acetone

Concen: 156.163 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052882.D

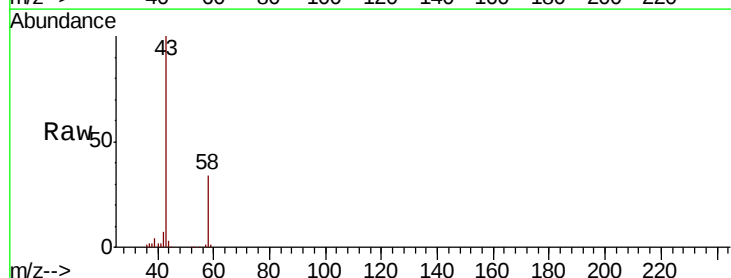
Acq: 14 Dec 2018 12:09

Tgt Ion: 58 Resp: 128337

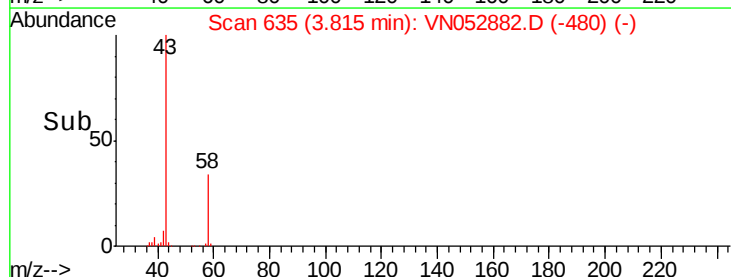
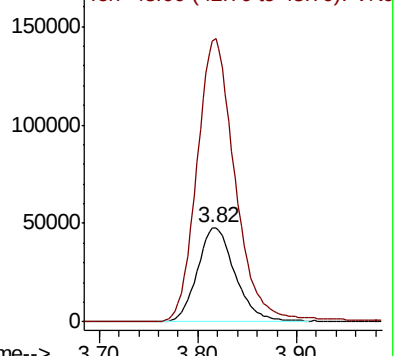
Ion Ratio Lower Upper

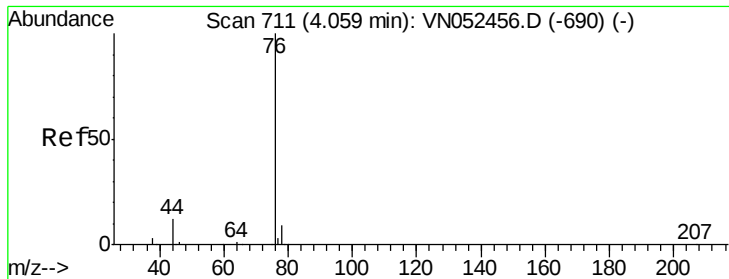
58 100

43 297.6 243.6 365.4



Abundance Ion 58.00 (57.70 to 58.70): VN052882.D (-480) (-)

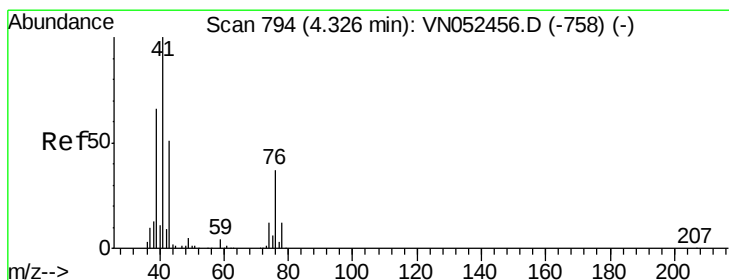
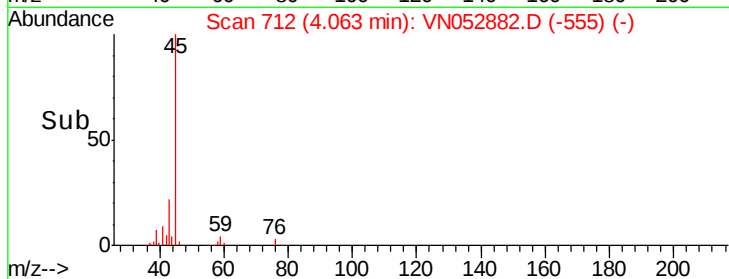
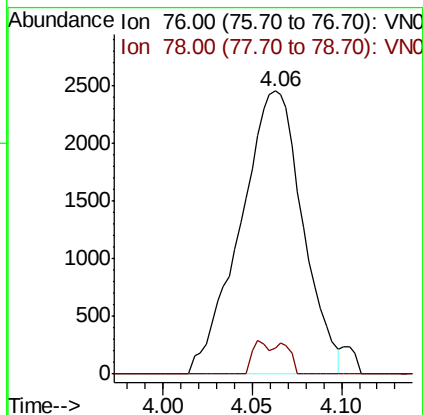
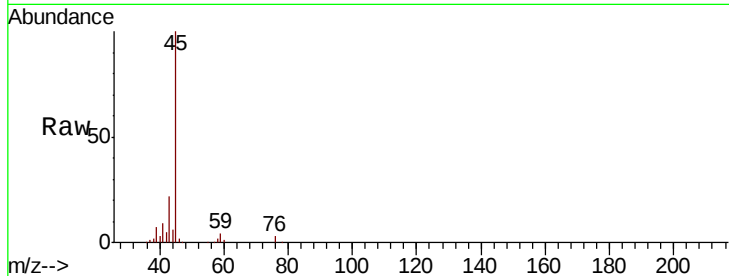




#16
Carbon Disulfide
Concen: 0.215 ug/l
RT: 4.06 min Scan# 712
Delta R.T. 0.00 min
Lab File: VN052882.D
Acq: 14 Dec 2018 12:09

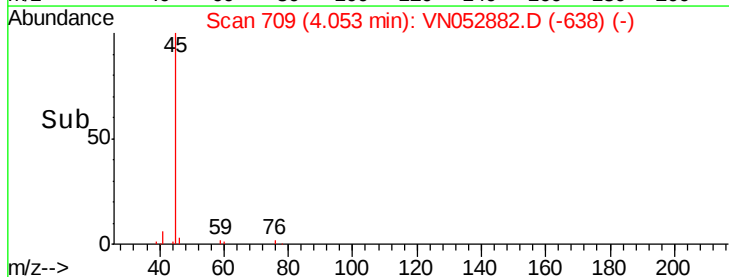
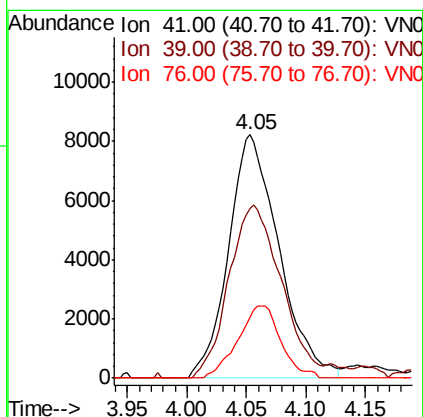
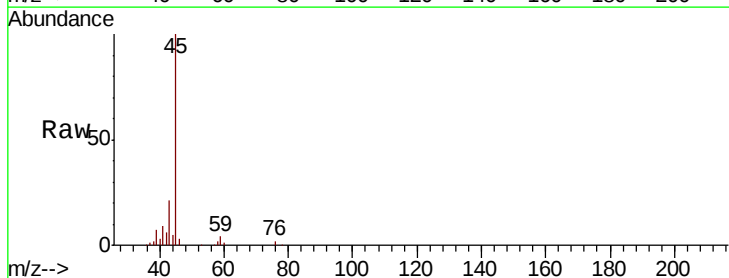
Instrument :
MSVOA_N
ClientSampled :

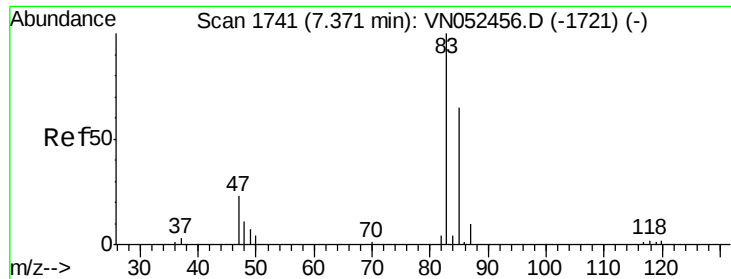
Tot Ion: 76 Resp: 5965
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9



#17
Allyl chloride
Concen: 1.579 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.27 min
Lab File: VN052882.D
Acq: 14 Dec 2018 12:09

Tgt Ion: 41 Resp: 24135
Ion Ratio Lower Upper
41 100
39 69.4 32.8 98.3
76 25.0 18.6 55.8

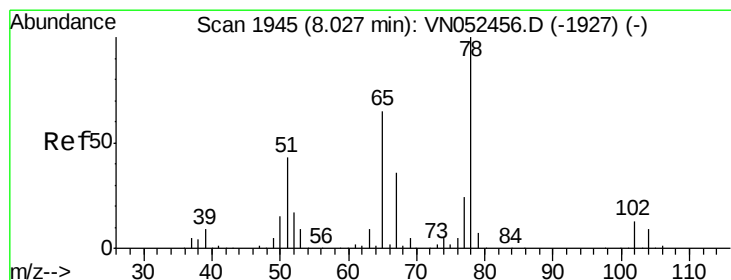
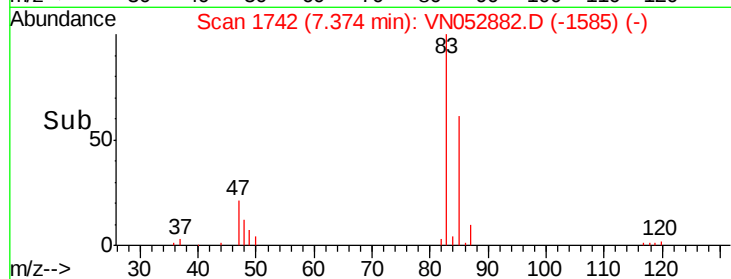
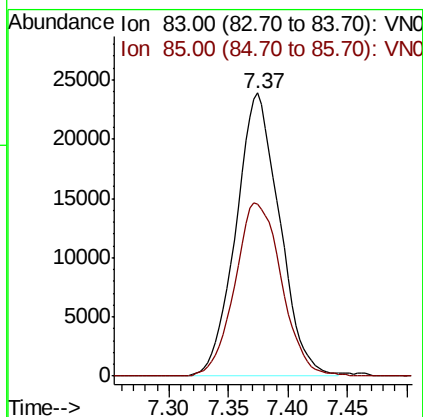
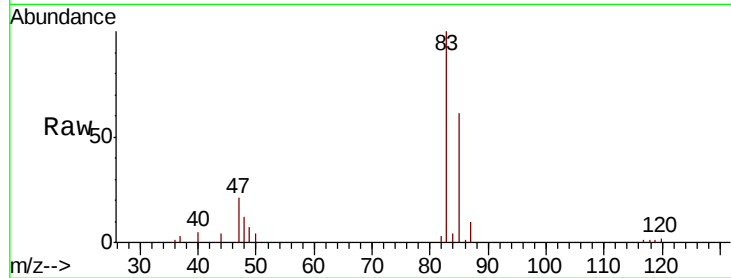




#25
Chloroform
Concen: 3.432 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052882.D
Acq: 14 Dec 2018 12:09

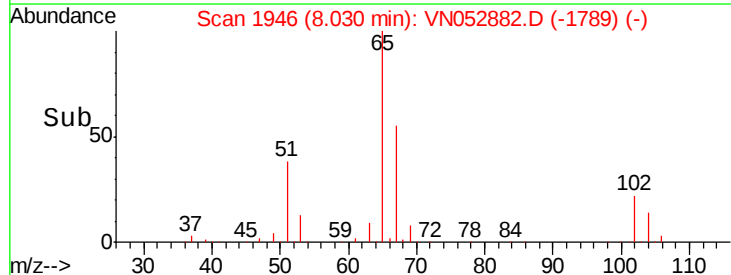
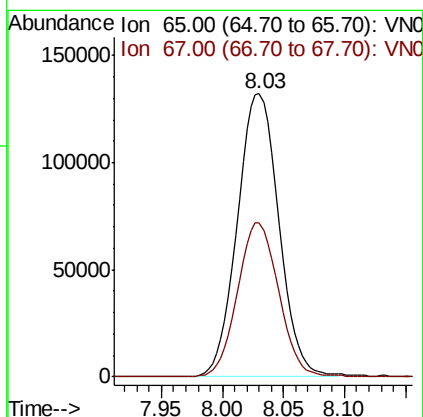
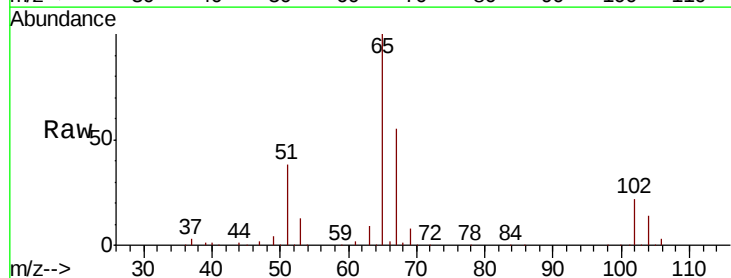
Instrument :
MSVOA_N
ClientSampled :

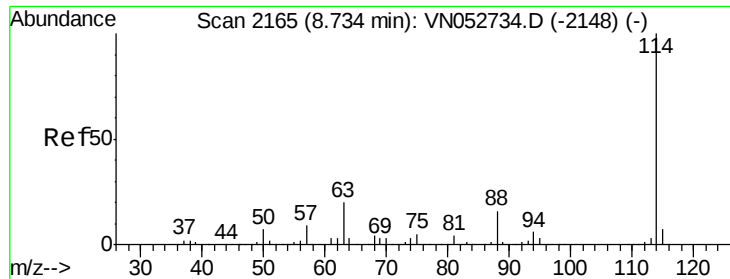
Tot Ion: 83 Resp: 60615
Ion Ratio Lower Upper
83 100
85 60.6 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052882.D
Acq: 14 Dec 2018 12:09

Tgt Ion: 65 Resp: 311586
Ion Ratio Lower Upper
65 100
67 54.2 44.6 66.8

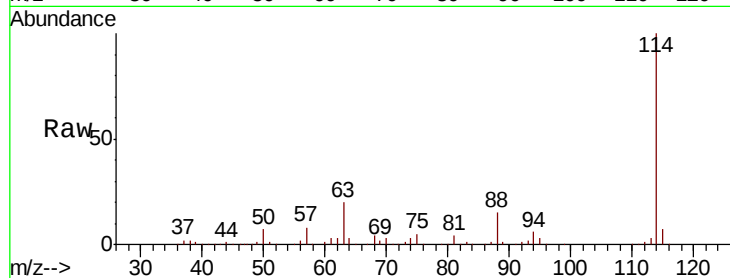




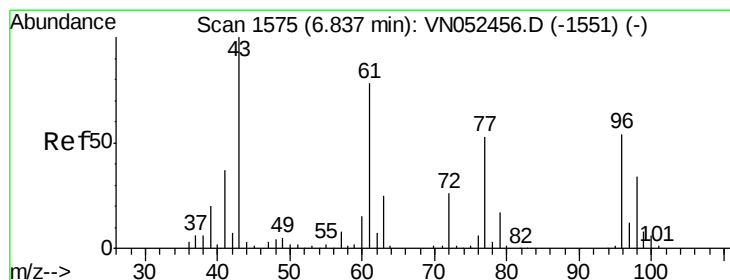
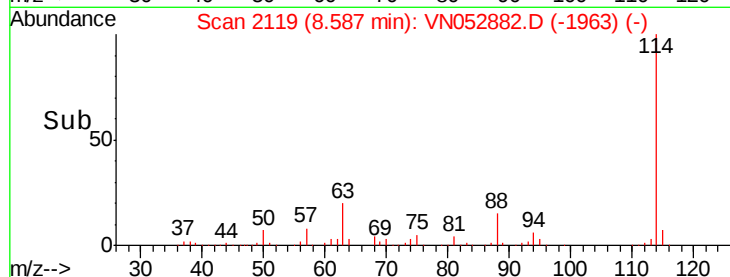
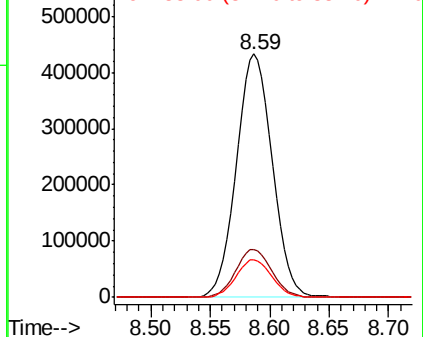
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052882.D
 Acq: 14 Dec 2018 12:09

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 905169
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.9 25.3
 88 15.4 12.8 19.2

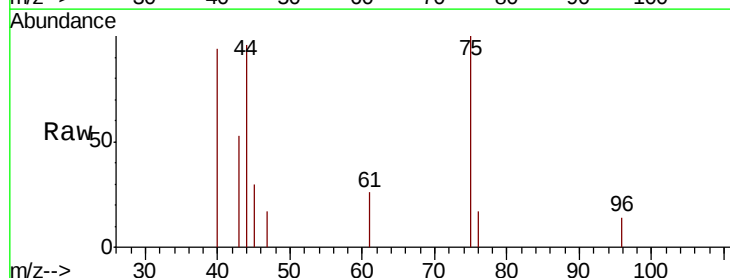


Abundance Ion 114.00 (113.70 to 114.70): VN052882.D (-1963) (-)
 Ion 63.00 (62.70 to 63.70): VN052882.D (-1963) (-)
 Ion 88.00 (87.70 to 88.70): VN052882.D (-1963) (-)

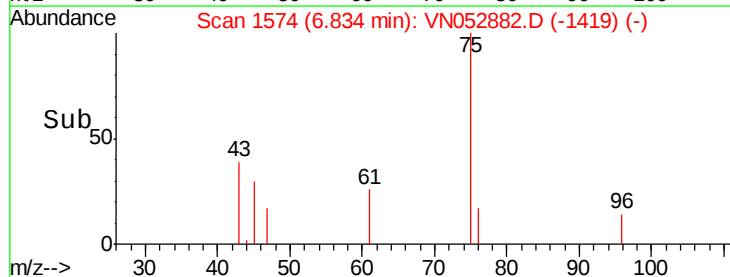
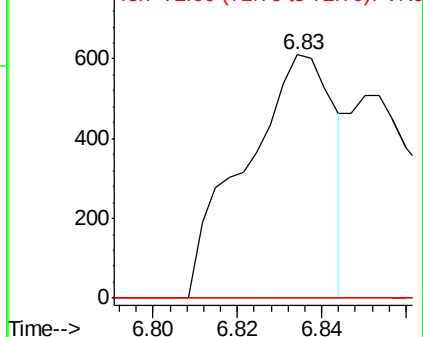


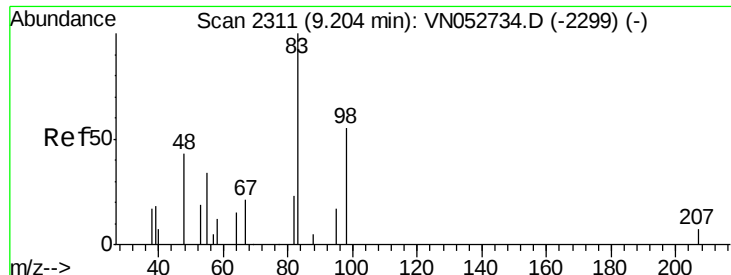
#30
 2-Butanone
 Concen: 0.241 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052882.D
 Acq: 14 Dec 2018 12:09

Tgt Ion: 43 Resp: 893
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.2 9.4#
 72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052882.D (-1419) (-)
 Ion 57.00 (56.70 to 57.70): VN052882.D (-1419) (-)
 Ion 72.00 (71.70 to 72.70): VN052882.D (-1419) (-)





#41

Bromodichloromethane

Concen: 1.052 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

Instrument :

MSVOA_N

ClientSampleId :

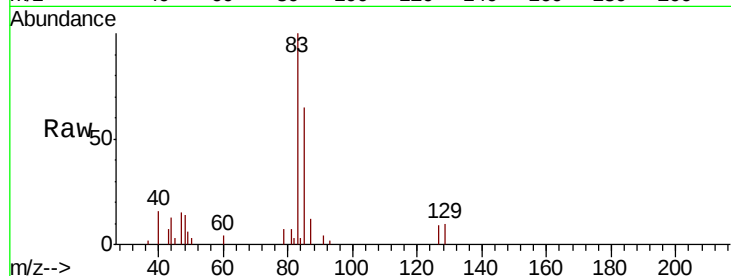
Tot Ion: 83 Resp: 13987

Ion Ratio Lower Upper

83 100

85 65.5 52.4 78.6

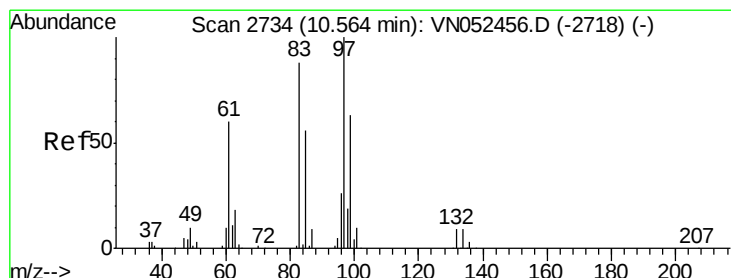
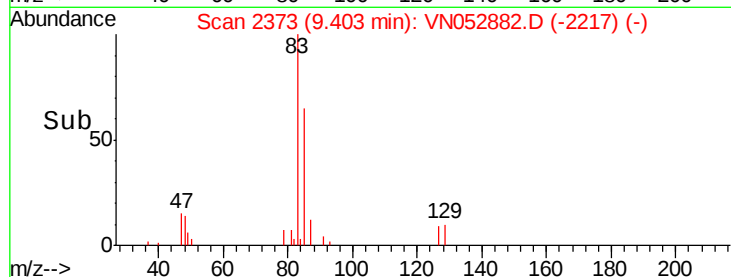
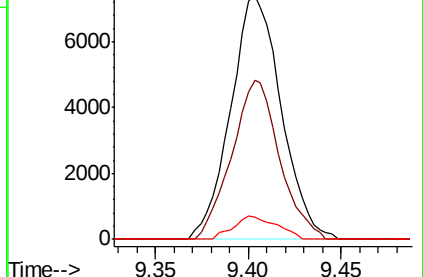
127 9.2 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN052882.D (-2217) (-)

Ion 85.00 (84.70 to 85.70): VN052882.D (-2217) (-)

Ion 127.00 (126.70 to 127.70): VN052882.D (-2217) (-)



#50

1,1,2-Trichloroethane

Concen: 3.677 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.46 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

Tgt Ion: 97 Resp: 31381

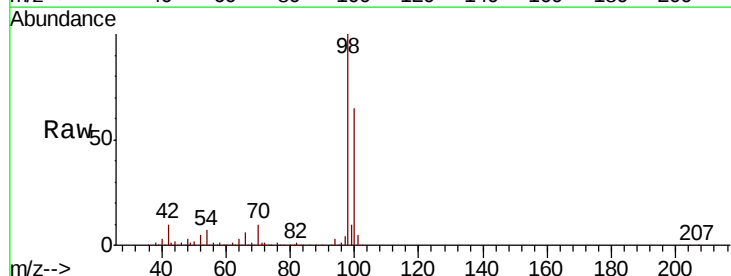
Ion Ratio Lower Upper

97 100

83 2.8 70.4 105.6#

85 0.0 45.0 67.6#

99 265.1 50.2 75.2#

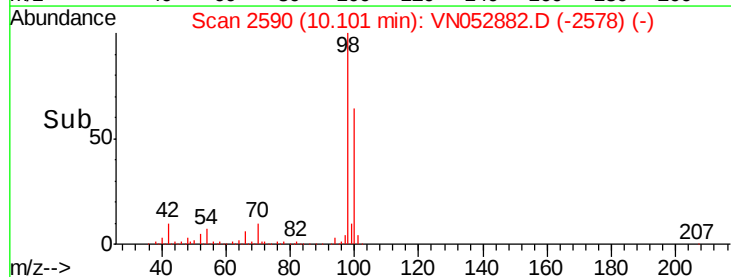
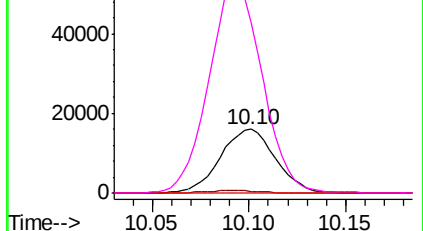


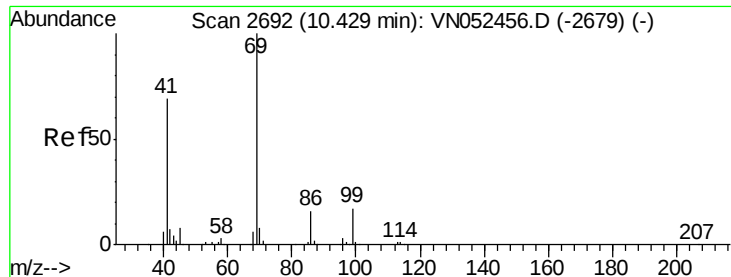
Abundance Ion 97.00 (96.70 to 97.70): VN052882.D (-2578) (-)

Ion 82.95 (82.65 to 83.65): VN052882.D (-2578) (-)

Ion 84.95 (84.65 to 85.65): VN052882.D (-2578) (-)

Ion 98.95 (98.65 to 99.65): VN052882.D (-2578) (-)





#51

Ethyl methacrylate

Concen: 0.277 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

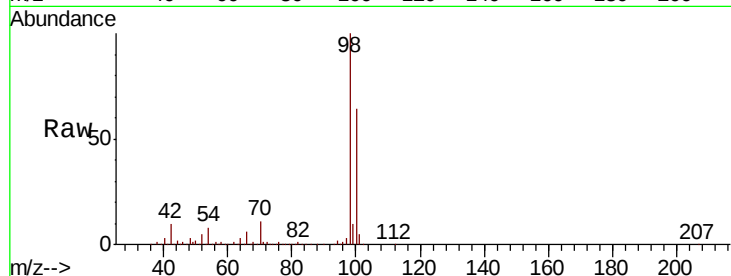
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 69 Resp: 2967

Ion	Ratio	Lower	Upper
69	100		
41	93.3	34.4	103.3
39	33.4	16.4	49.2

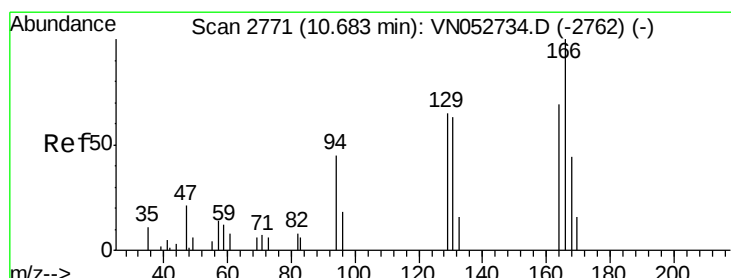
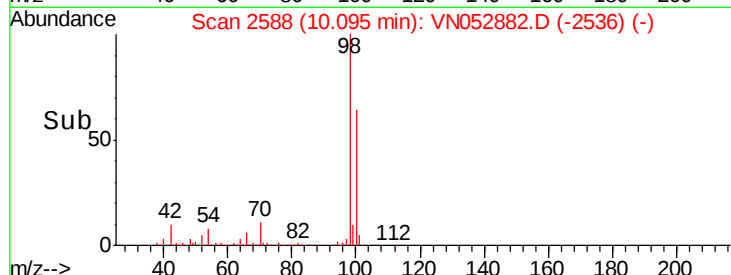
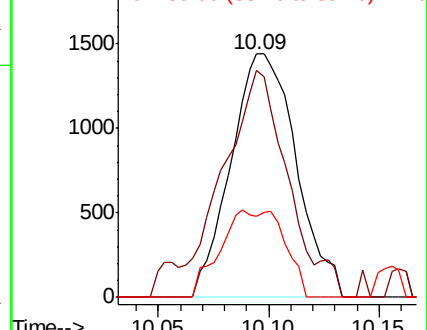


Abundance

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: 0.354 ug/l

RT: 10.90 min Scan# 2840

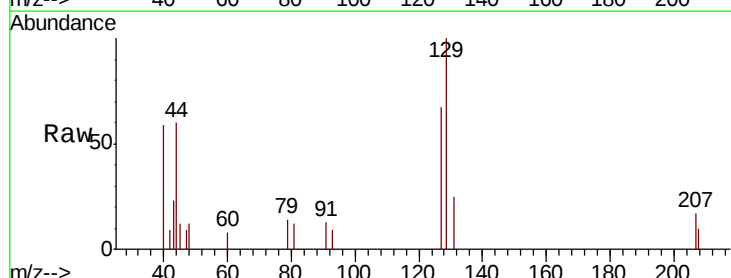
Delta R.T. 0.00 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

Tgt Ion: 129 Resp: 3325

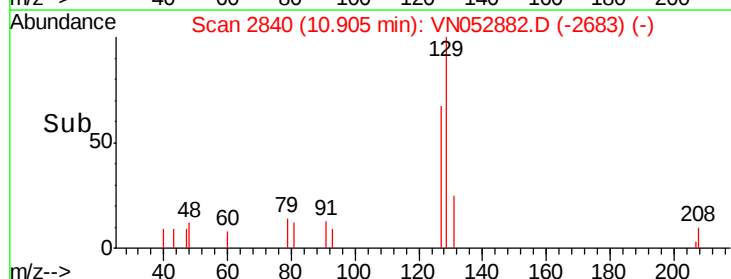
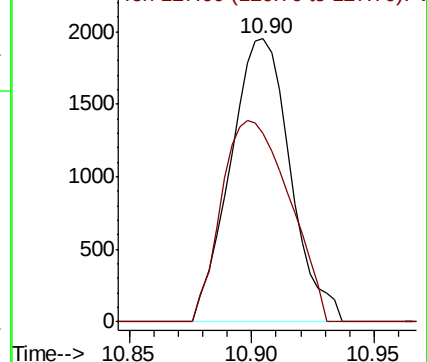
Ion	Ratio	Lower	Upper
129	100		
127	80.9	37.6	112.8

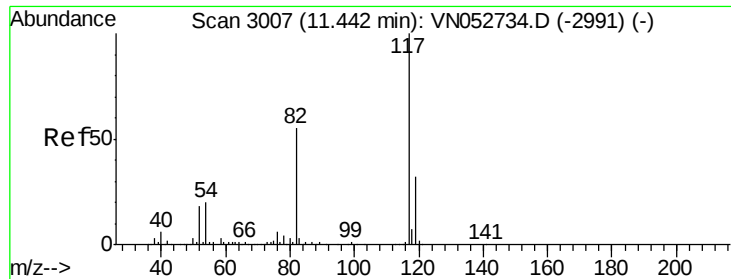


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

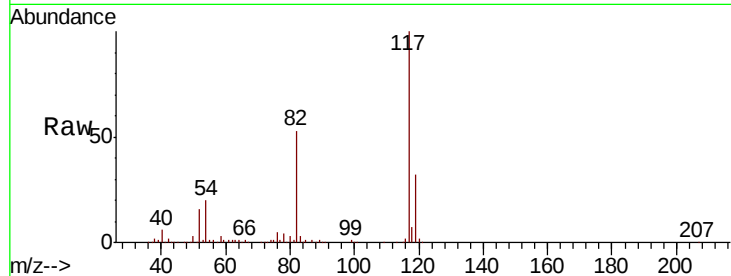




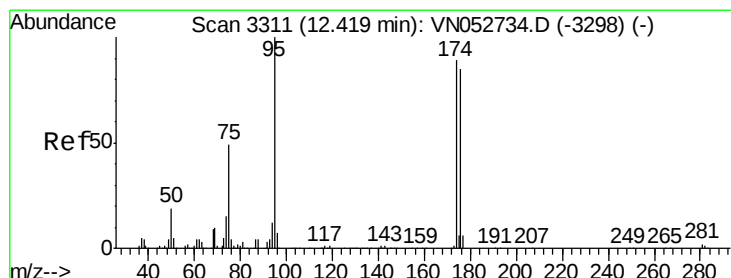
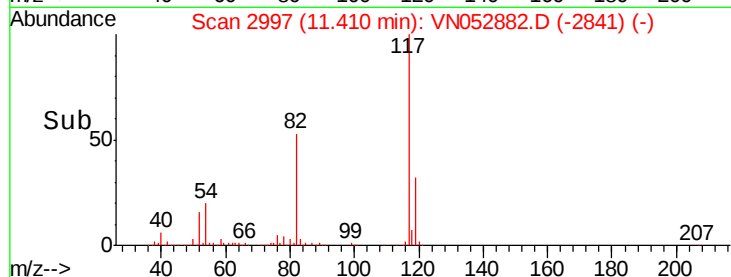
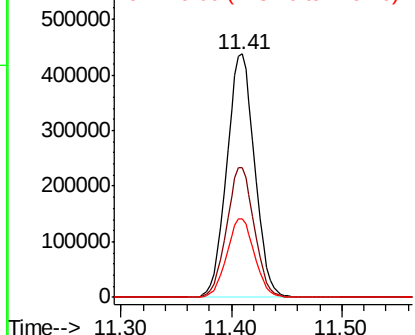
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052882.D
Acq: 14 Dec 2018 12:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	44.2	66.2
119	32.2	25.4	38.2

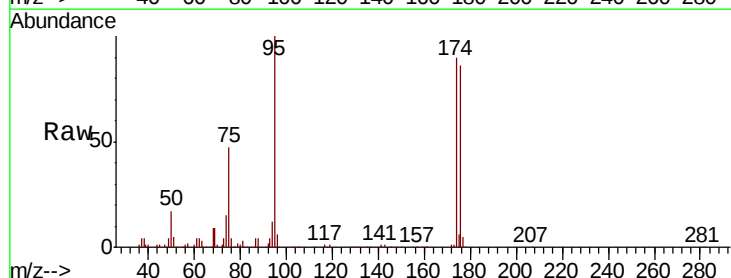


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

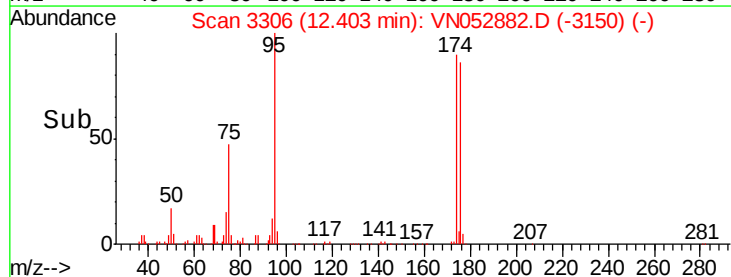
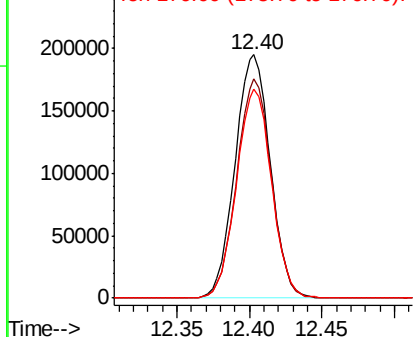


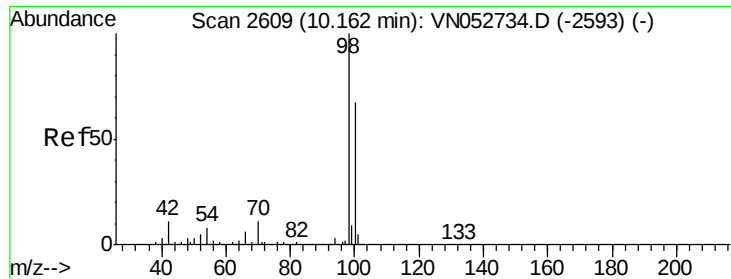
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052882.D
Acq: 14 Dec 2018 12:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.6	67.9	101.9
176	85.5	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





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

Instrument :

MSVOA_N

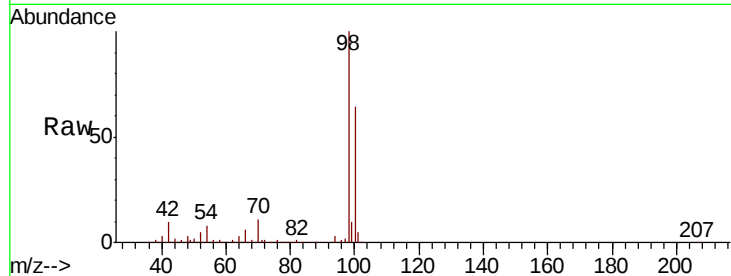
ClientSampleId :

Tot Ion: 98 Resp: 1034602

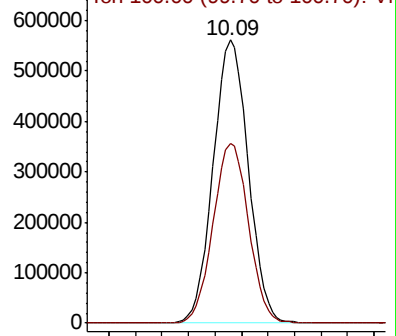
Ion Ratio Lower Upper

98 100

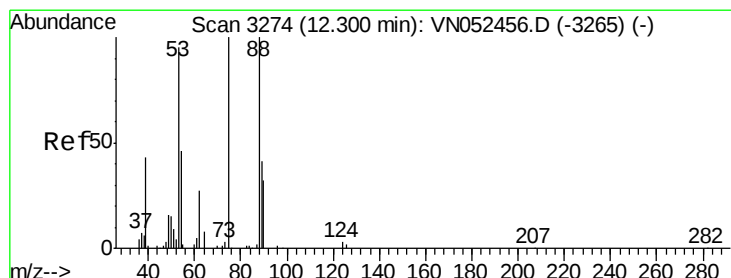
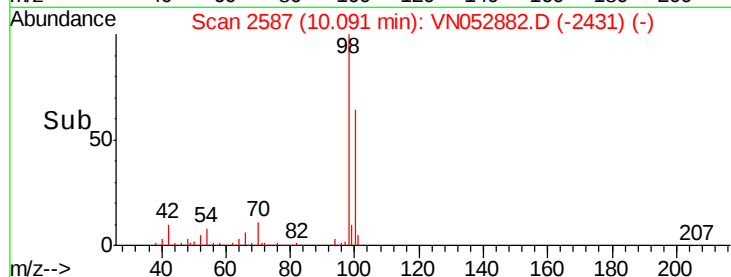
100 64.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN052734.D (-2593) (-)



Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 59.770 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

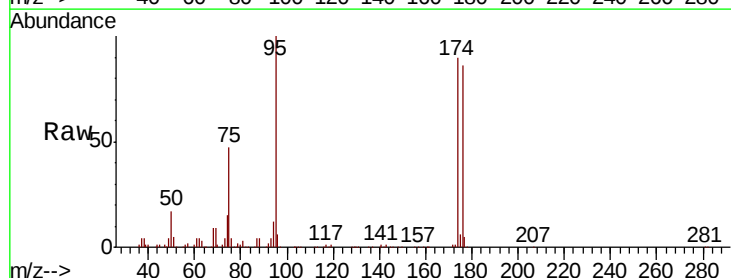
Tgt Ion: 75 Resp: 153874

Ion Ratio Lower Upper

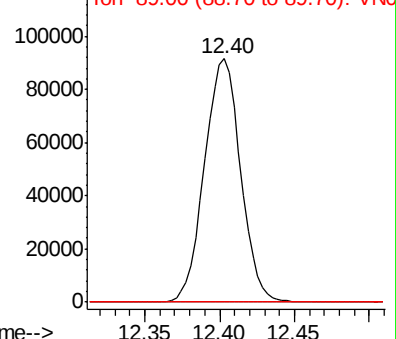
75 100

53 0.0 48.5 145.6#

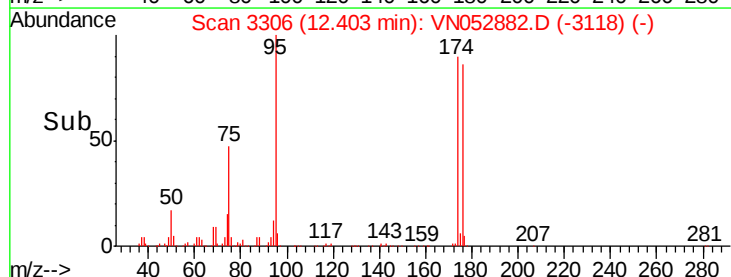
89 0.0 21.7 65.1#

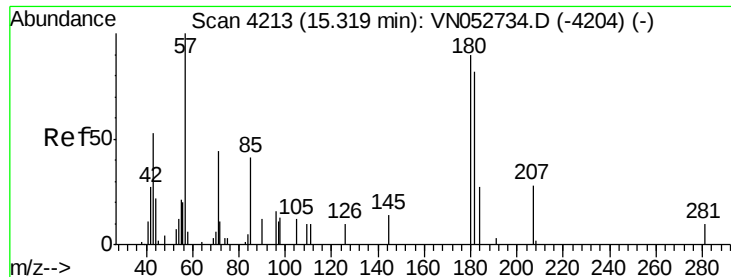


Abundance Ion 75.00 (74.70 to 75.70): VN052456.D (-3265) (-)



Time-->

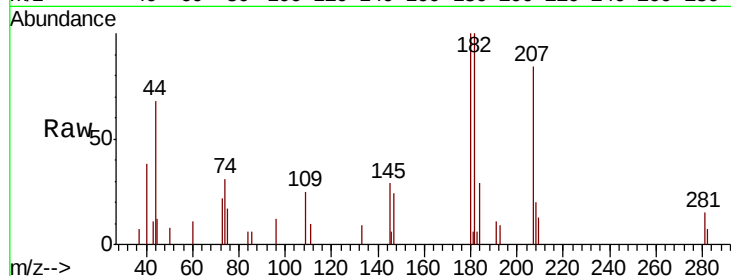




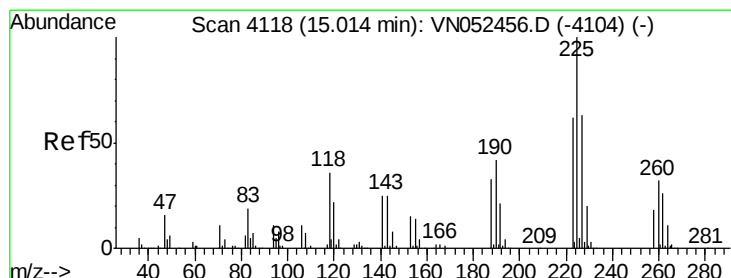
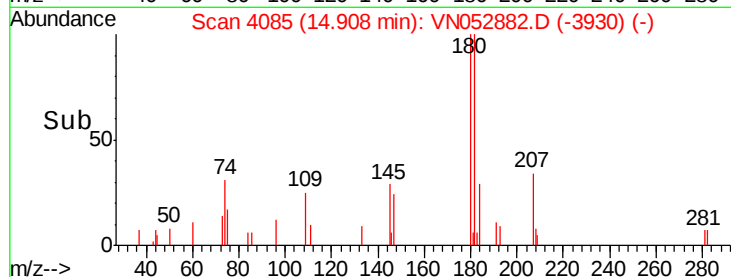
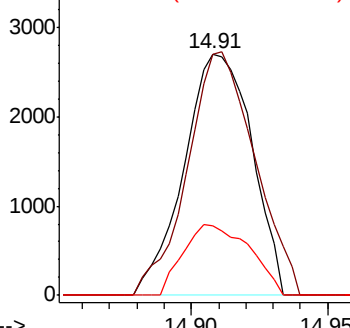
#89
 1,2,4-Trichlorobenzene
 Concen: 0.537 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052882.D
 Acq: 14 Dec 2018 12:09

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 4670
 Ion Ratio Lower Upper
 180 100
 182 100.1 76.6 114.8
 145 28.8 23.6 35.4

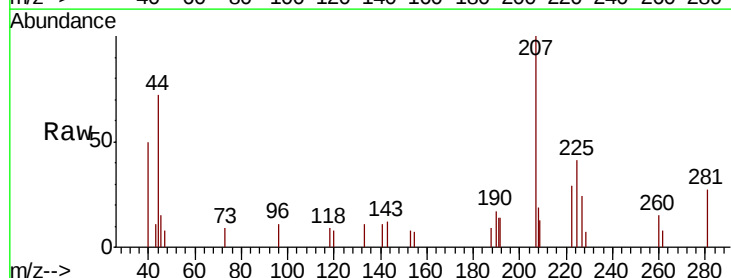


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

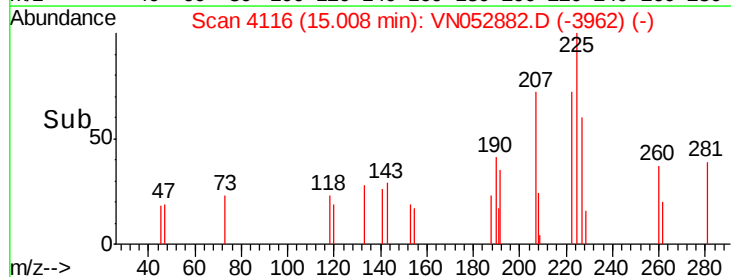
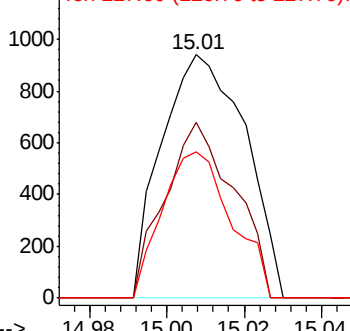


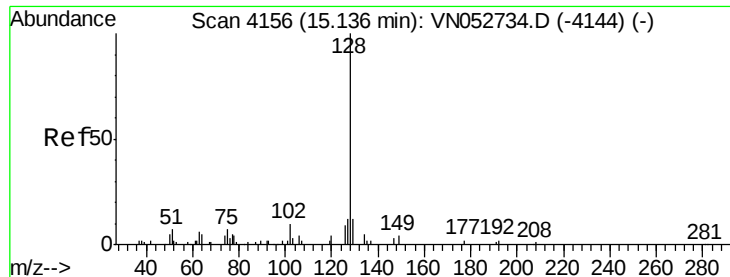
#90
 Hexachlorobutadiene
 Concen: 0.247 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VN052882.D
 Acq: 14 Dec 2018 12:09

Tgt Ion:225 Resp: 1412
 Ion Ratio Lower Upper
 225 100
 223 59.8 0.0 125.6
 227 49.9 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: 0.850 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

Instrument :

MSVOA_N

ClientSampleId :

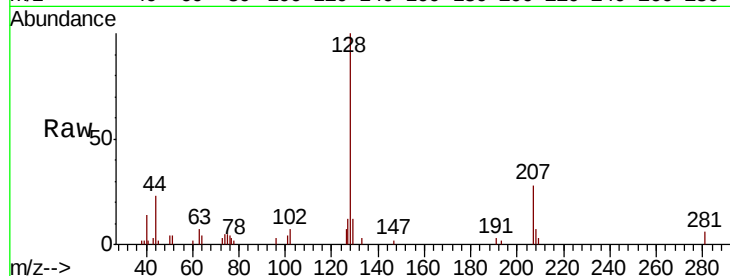
Tot Ion:128 Resp: 14942

Ion Ratio Lower Upper

128 100

127 11.3 9.9 14.9

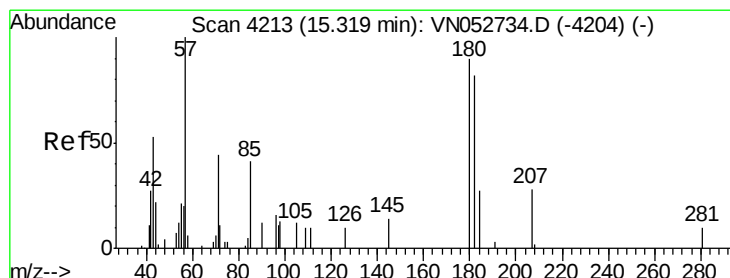
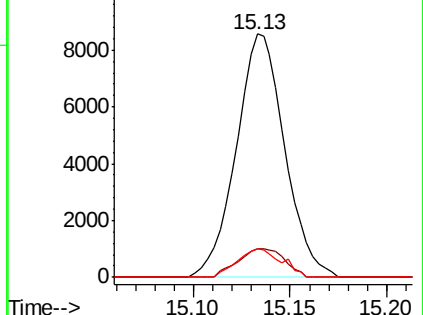
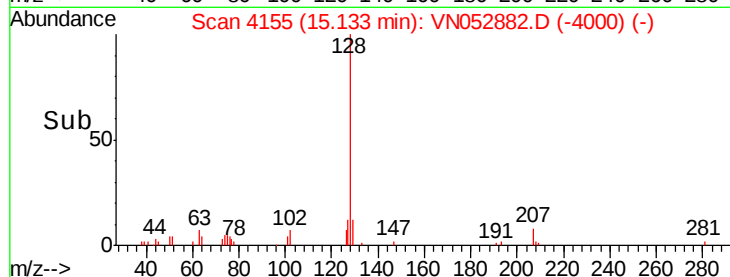
129 9.2 8.5 12.7



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: 0.616 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052882.D

Acq: 14 Dec 2018 12:09

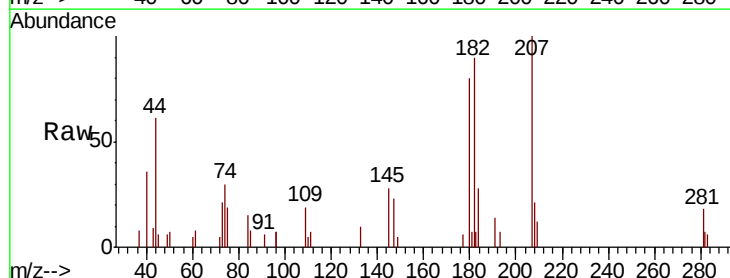
Tgt Ion:180 Resp: 4938

Ion Ratio Lower Upper

180 100

182 100.1 0.0 196.2

145 31.6 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

