

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120418\
 Data File : VN052648.D
 Acq On : 4 Dec 2018 12:27
 Operator : MD\SY
 Sample : J6209-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-12-3-18

Quant Time: Dec 05 03:06:53 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	1150527	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1779270	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1571337	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	599215	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	608542	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
35) Dibromofluoromethane	7.59	113	553550	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
50) Toluene-d8	10.09	98	2157573	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.40	95	690508	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	

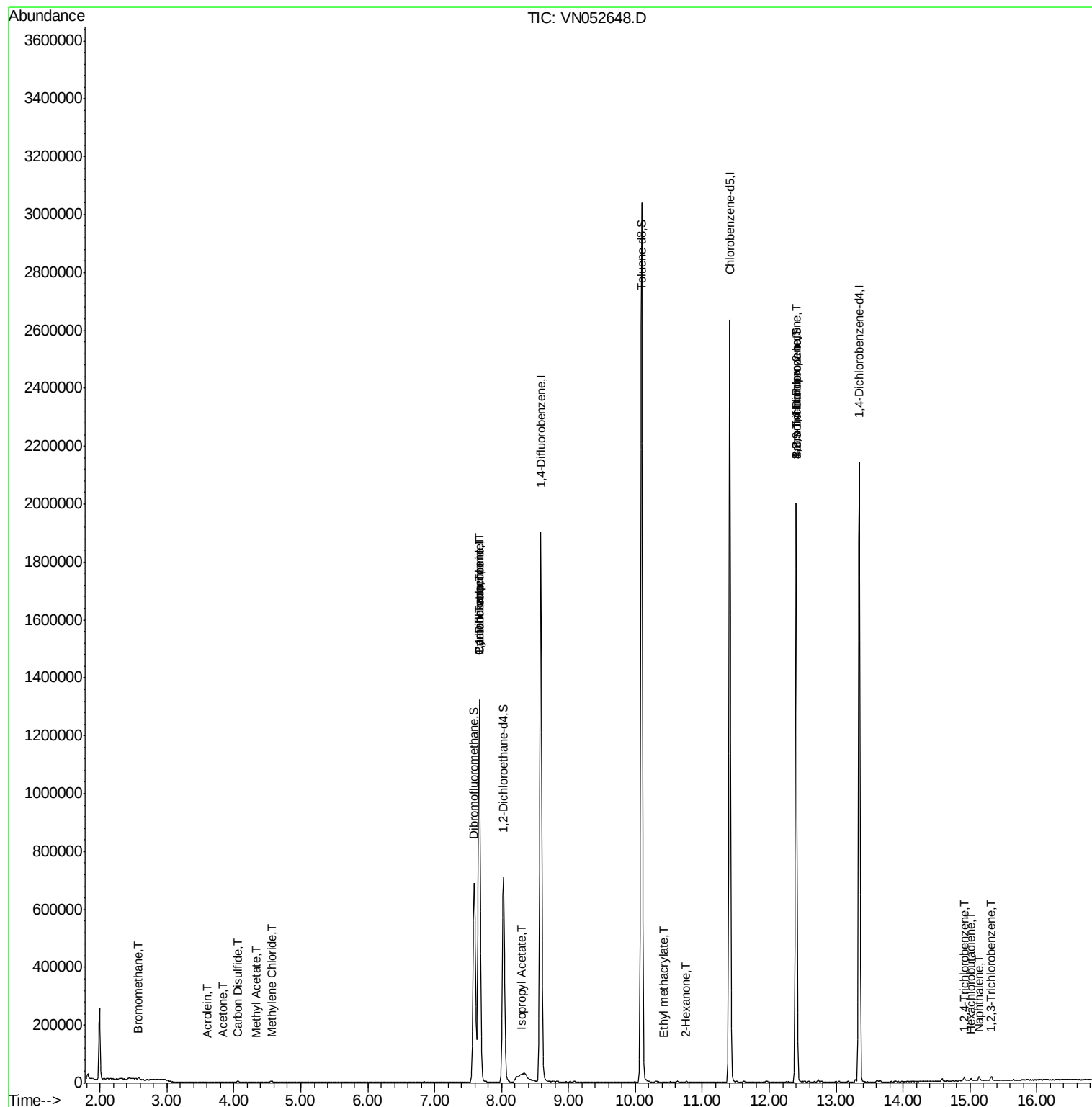
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	2093	0.230	ug/l	98
13) Acrolein	3.61	56	397	0.364	ug/l #	79
16) Acetone	3.83	43	1615	0.489	ug/l #	42
17) Carbon Disulfide	4.06	76	6985	0.206	ug/l #	92
18) Methyl Acetate	4.33	43	2124	0.224	ug/l #	52
20) Methylene Chloride	4.56	84	3499	0.271	ug/l #	82
31) Cyclohexane	7.67	56	20327	0.582	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	79130	4.710	ug/l #	49
38) Carbon Tetrachloride	7.67	117	101743	6.689	ug/l #	16
43) Isopropyl Acetate	8.31	43	54619	3.147	ug/l #	51
56) Ethyl methacrylate	10.43	69	70	2.698	ug/l #	25
59) 2-Hexanone	10.76	43	1333	0.204	ug/l	93
71) Bromoform	12.40	173	3941	0.528	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	329926	35.705	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	329926	119.239	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	4861	3.261	ug/l	98
94) Hexachlorobutadiene	15.01	225	1726	0.276	ug/l	90
95) Naphthalene	15.13	128	13206	3.974	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	5266	3.236	ug/l	96

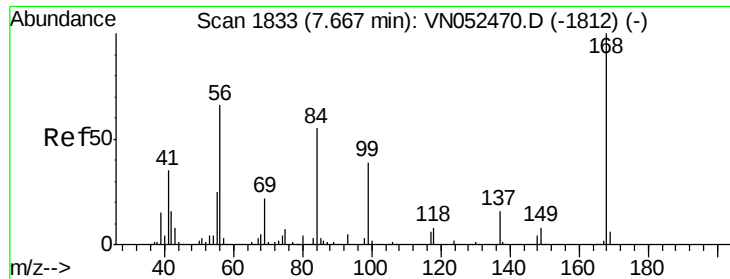
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampled :

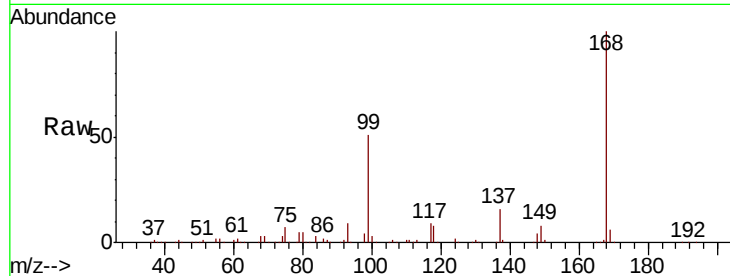
TB-12-3-18

Tot Ion:168 Resp: 1150527

Ion Ratio Lower Upper

168 100

99 50.6 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

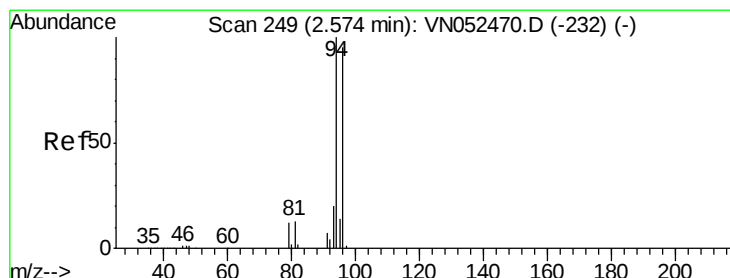
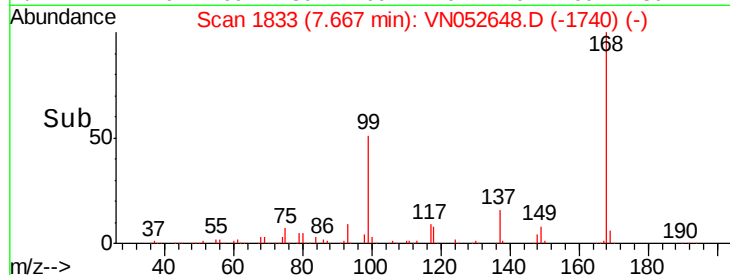
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.230 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN052648.D

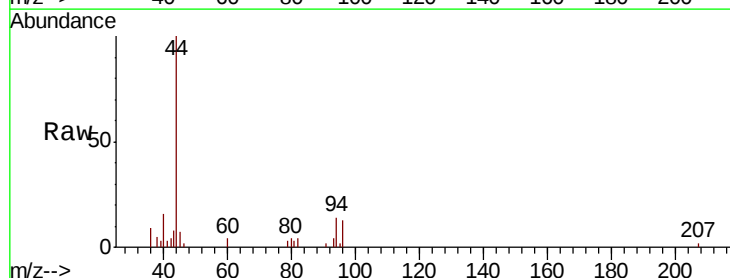
Acq: 4 Dec 2018 12:27

Tgt Ion: 94 Resp: 2093

Ion Ratio Lower Upper

94 100

96 93.0 75.8 113.8



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

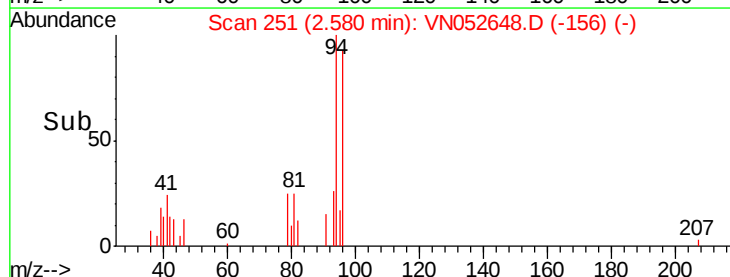
1500

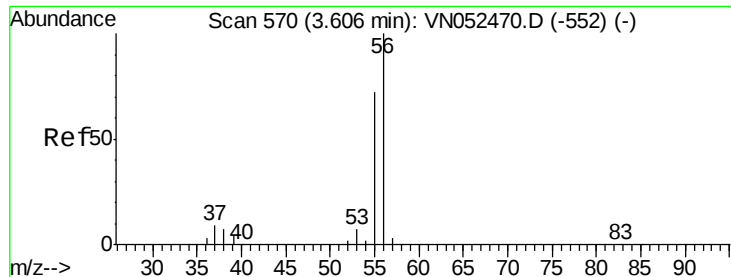
1000

500

0

Time-->





#13

Acrolein

Concen: 0.364 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampled :

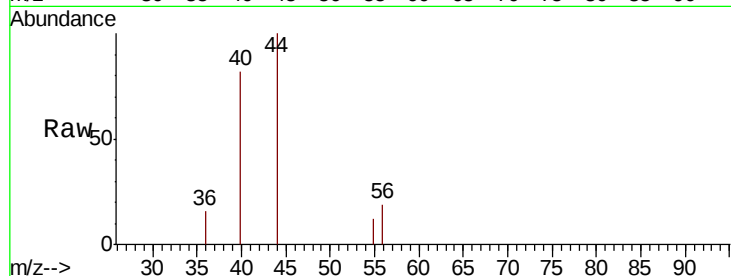
TB-12-3-18

Tot Ion: 56 Resp: 397

Ion Ratio Lower Upper

56 100

55 53.9 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

300

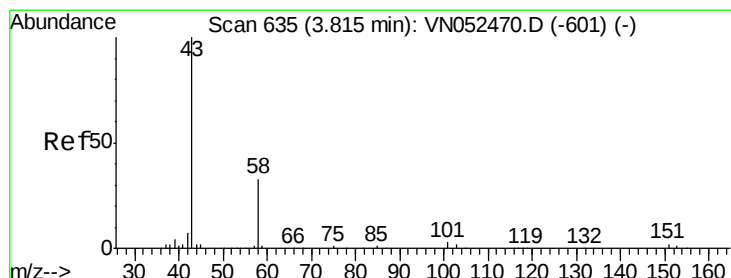
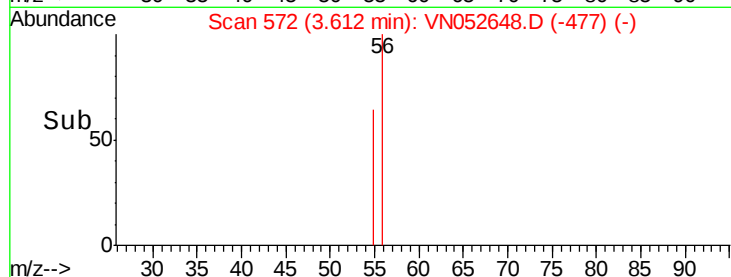
200

100

0

3.58 3.60 3.62 3.64

Time-->



#16

Acetone

Concen: 0.489 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.02 min

Lab File: VN052648.D

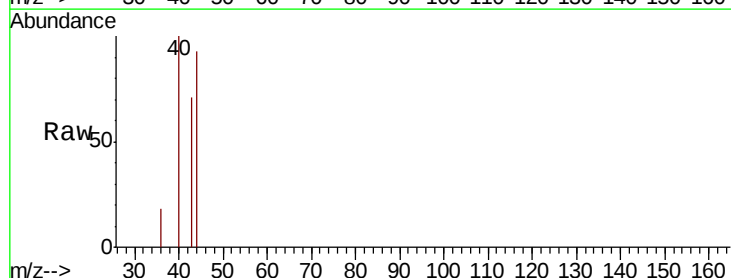
Acq: 4 Dec 2018 12:27

Tgt Ion: 43 Resp: 1615

Ion Ratio Lower Upper

43 100

58 0.0 26.0 39.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

1000

800

600

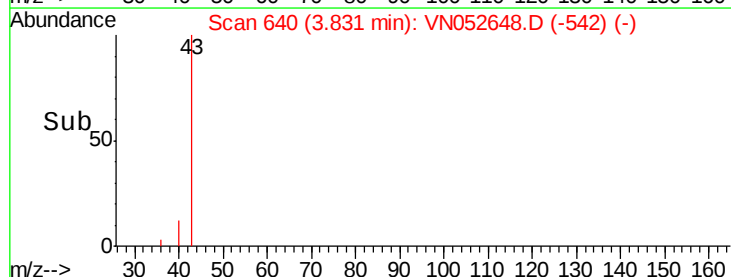
400

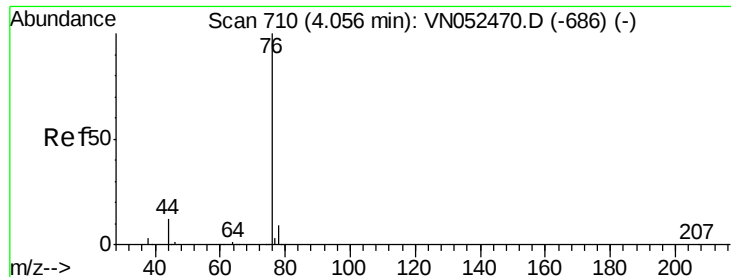
200

0

3.80 3.85

Time-->





#17

Carbon Disulfide

Concen: 0.206 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampled :

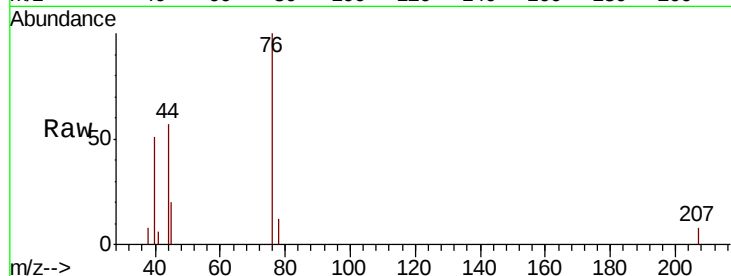
TB-12-3-18

Tot Ion: 76 Resp: 6985

Ion Ratio Lower Upper

76 100

78 12.1 7.4 11.0#



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

Ion 77.90 (77.60 to 78.60): VN052470.D (-686) (-)

4.06

2500

2000

1500

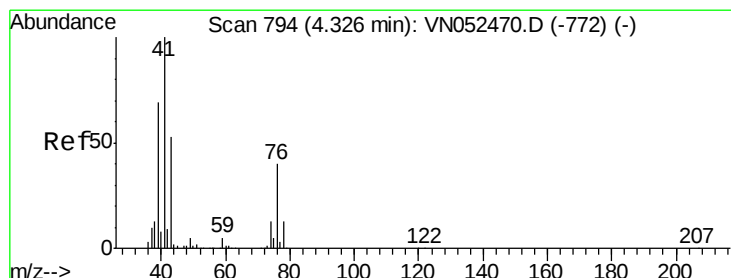
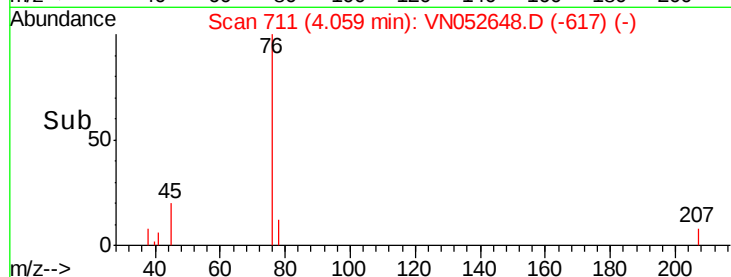
1000

500

0

Time-->

4.00 4.05 4.10



#18

Methyl Acetate

Concen: 0.224 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN052648.D

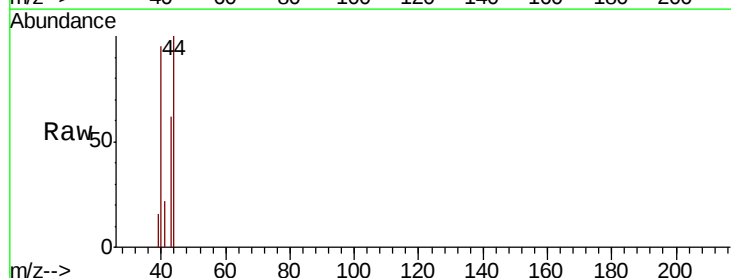
Acq: 4 Dec 2018 12:27

Tgt Ion: 43 Resp: 2124

Ion Ratio Lower Upper

43 100

74 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-772) (-)

Ion 74.00 (73.70 to 74.70): VN052470.D (-772) (-)

4.33

800

600

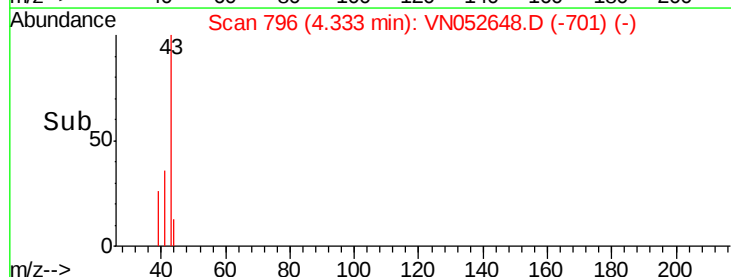
400

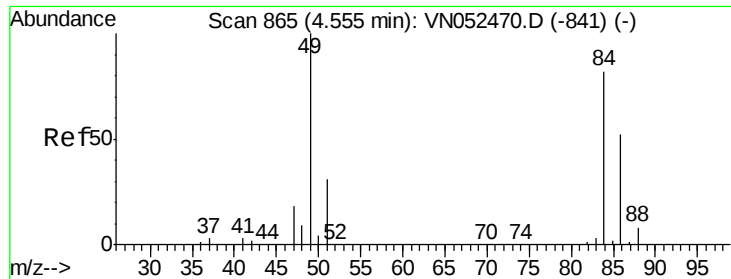
200

0

Time-->

4.25 4.30 4.35 4.40

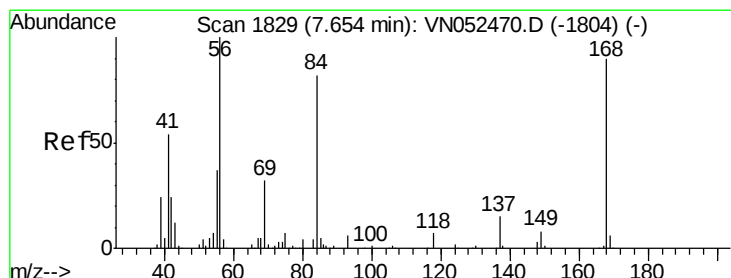
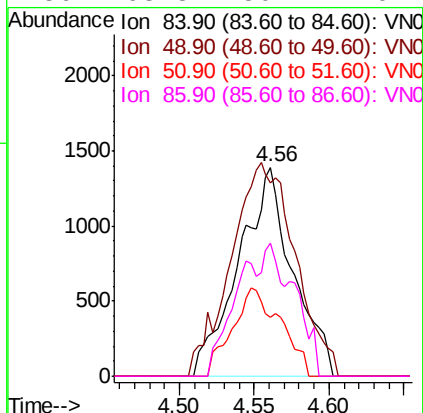
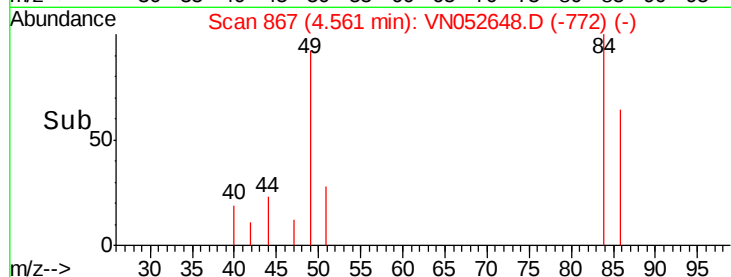
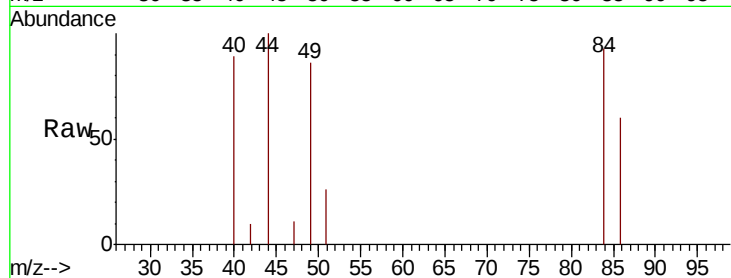




#20
Methylene Chloride
Concen: 0.271 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

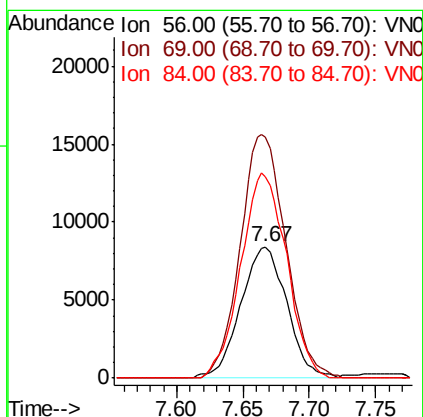
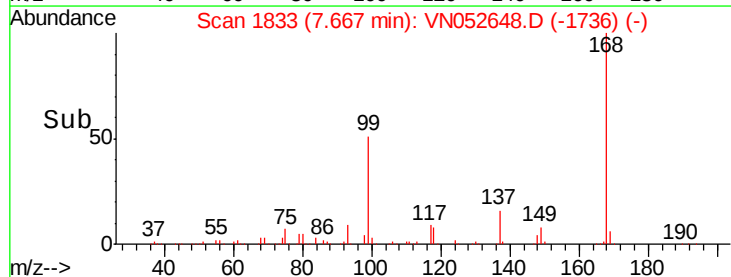
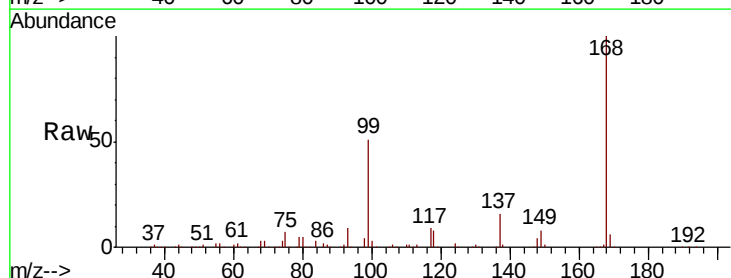
Instrument :
MSVOA_N
ClientSampled :
TB-12-3-18

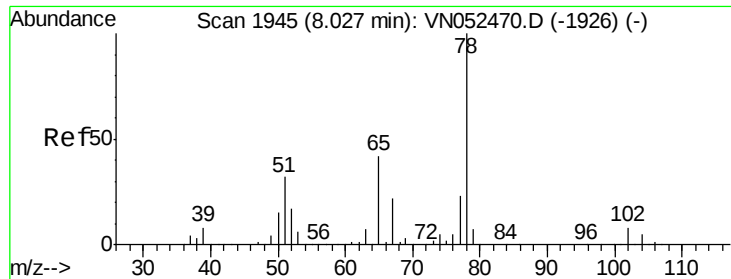
Tot Ion: 84 Resp: 3499
Ion Ratio Lower Upper
84 100
49 92.2 98.0 147.0#
51 28.0 30.1 45.1#
86 63.8 50.7 76.1



#31
Cyclohexane
Concen: 0.582 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

Tgt Ion: 56 Resp: 20327
Ion Ratio Lower Upper
56 100
69 183.4 25.8 38.6#
84 153.9 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampled :

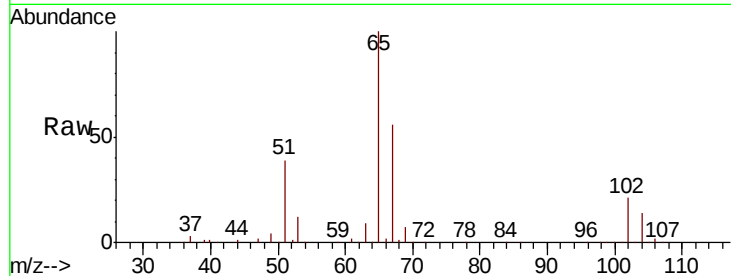
TB-12-3-18

Tot Ion: 65 Resp: 608542

Ion Ratio Lower Upper

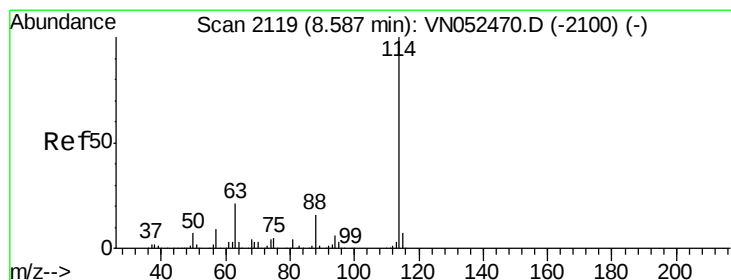
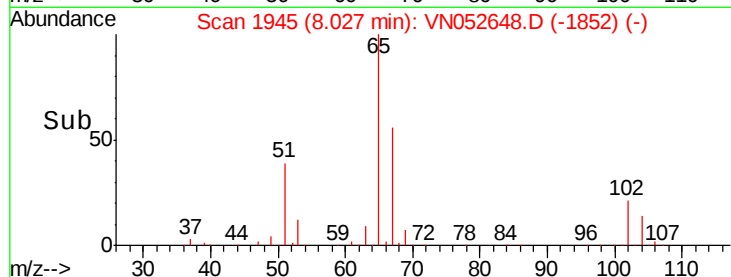
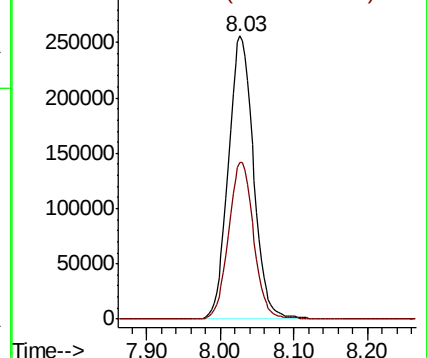
65 100

67 55.0 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN052648.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN052648.D (-1852) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

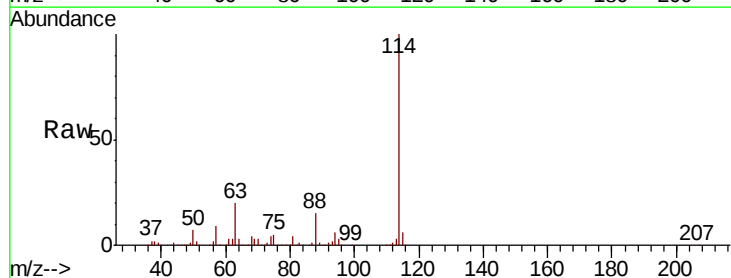
Tgt Ion:114 Resp: 1779270

Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.8

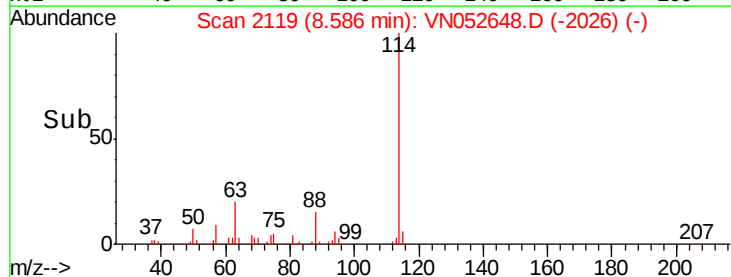
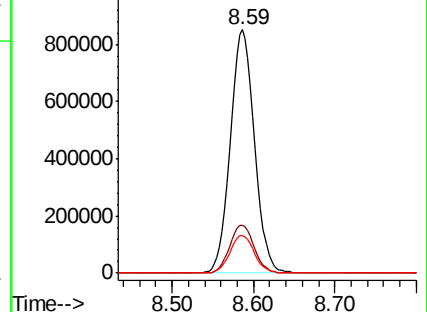
88 15.3 0.0 31.6

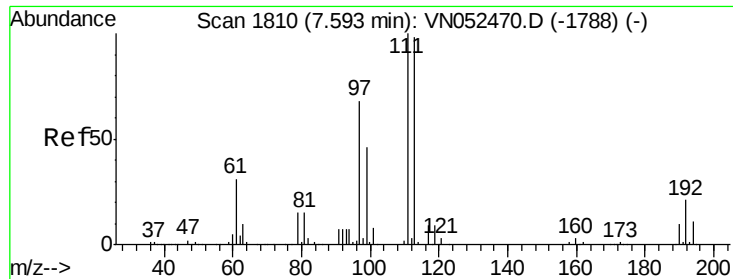


Abundance Ion 113.90 (113.60 to 114.60): VN052648.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN052648.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN052648.D (-2026) (-)

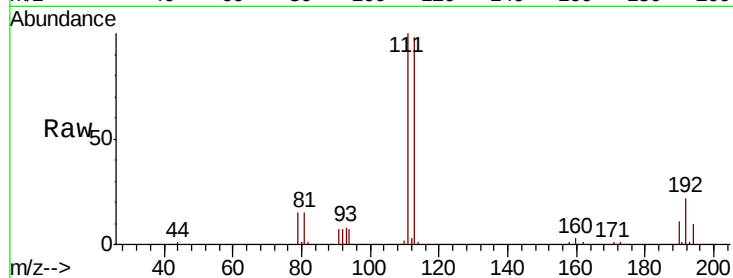




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

Instrument :
MSVOA_N
ClientSampleId :
TB-12-3-18

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.0	123.0
192	22.0	17.0	25.6

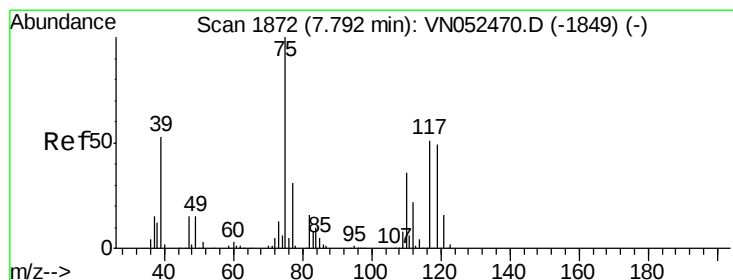
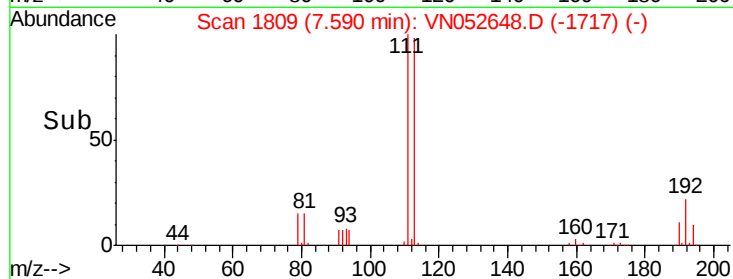
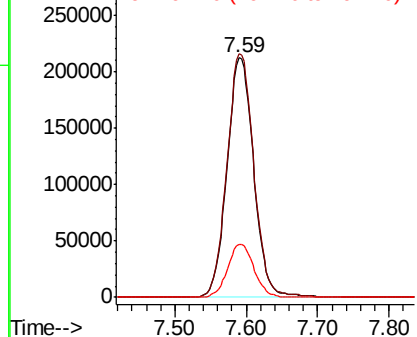


Abundance

Ion 112.80 (112.50 to 113.50): V

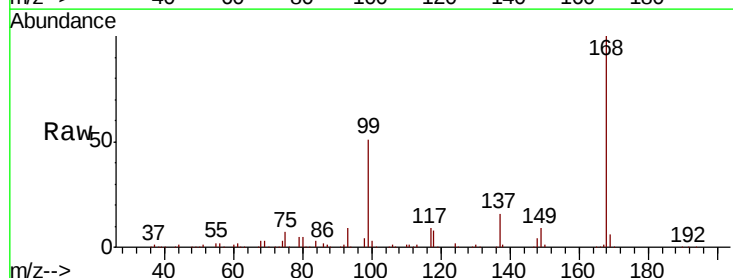
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
1,1-Dichloropropene
Concen: 4.710 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.13 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.5	52.6#
77	0.0	24.5	36.7#

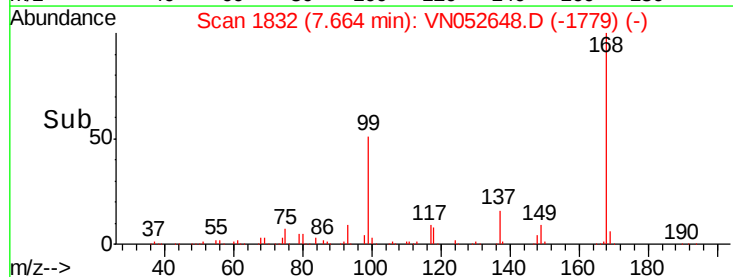
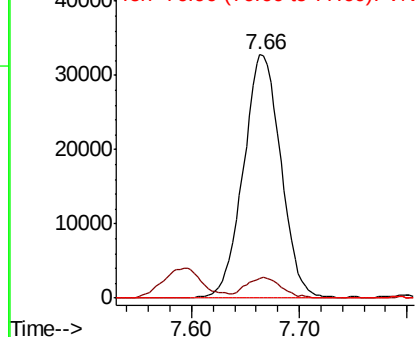


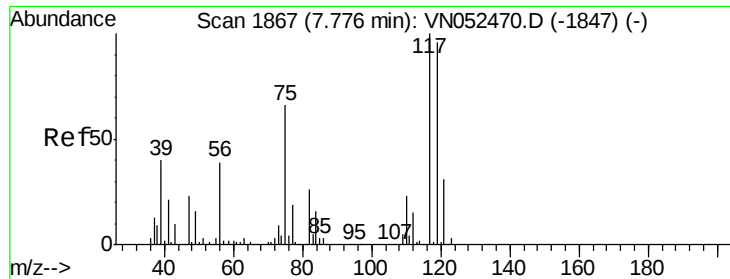
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.689 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampleId :

TB-12-3-18

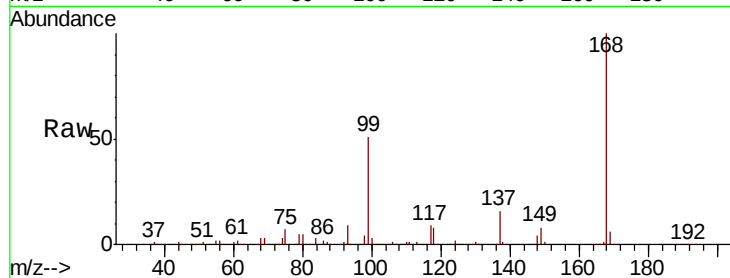
Tot Ion:117 Resp: 101743

Ion Ratio Lower Upper

117 100

119 5.2 76.8 115.2#

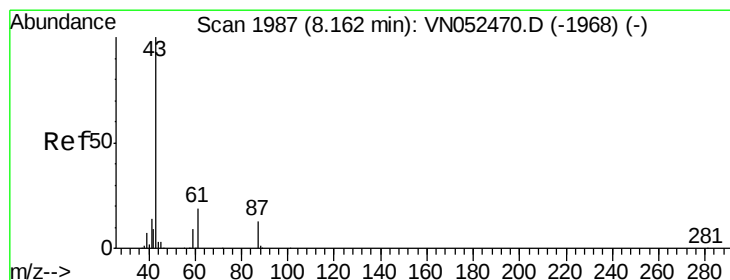
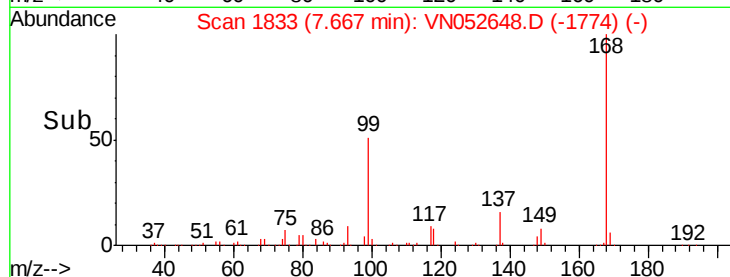
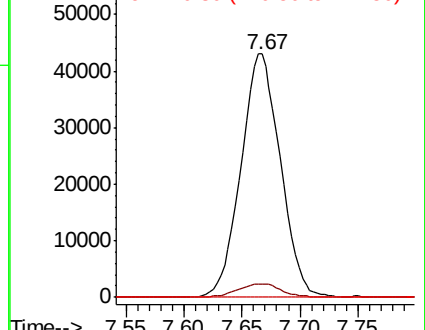
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 3.147 ug/l

RT: 8.31 min Scan# 2033

Delta R.T. 0.15 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

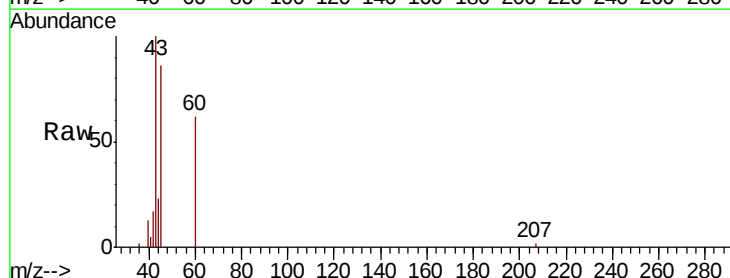
Tgt Ion: 43 Resp: 54619

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

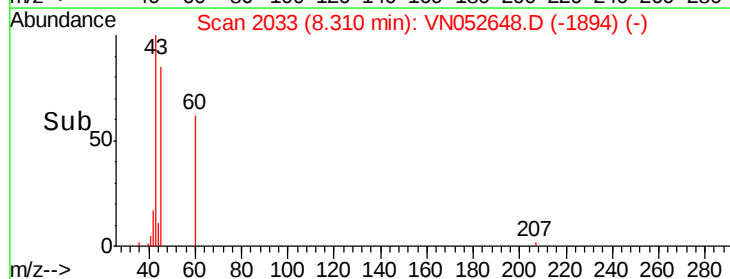
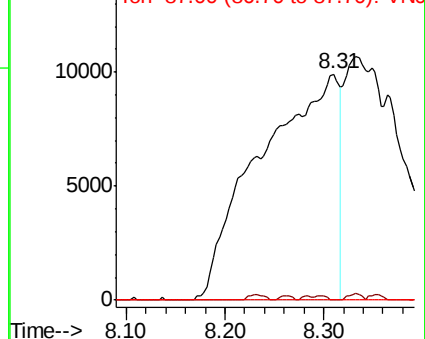
87 0.0 10.6 15.8#

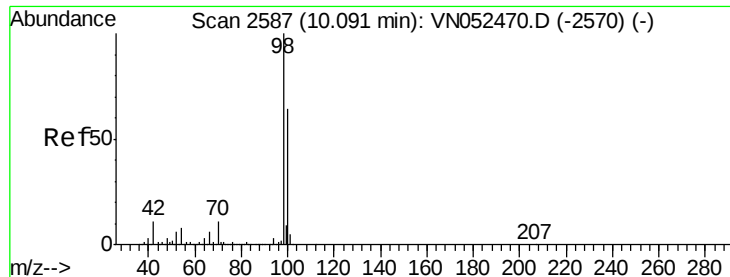


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampled :

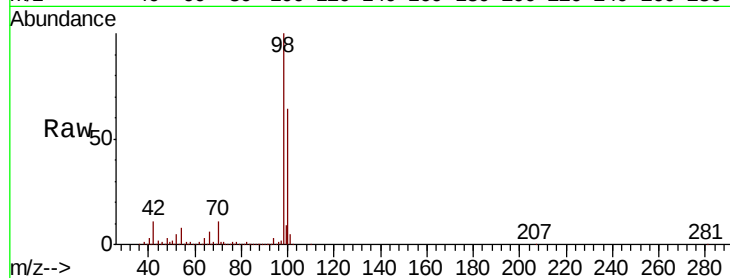
TB-12-3-18

Tot Ion: 98 Resp: 2157573

Ion Ratio Lower Upper

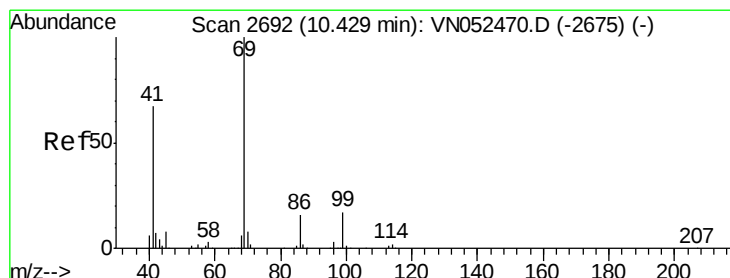
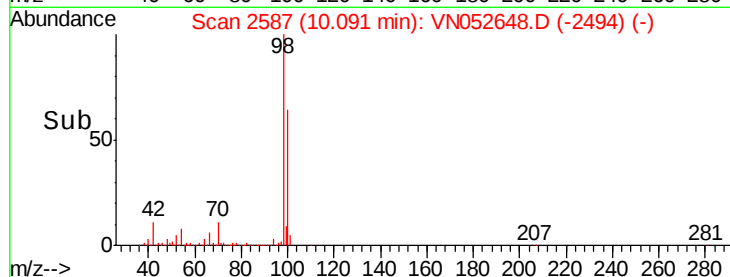
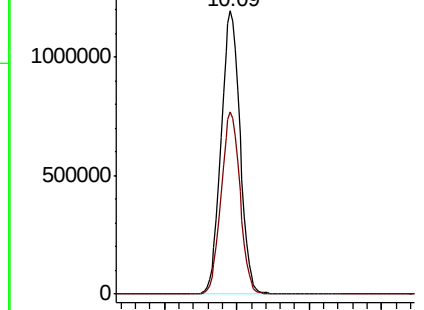
98 100

100 64.2 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN052470.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052470.D (-2570) (-)



#56

Ethyl methacrylate

Concen: 2.698 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

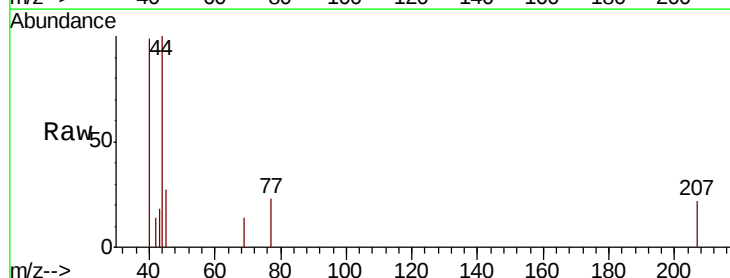
Tgt Ion: 69 Resp: 70

Ion Ratio Lower Upper

69 100

41 0.0 52.6 79.0#

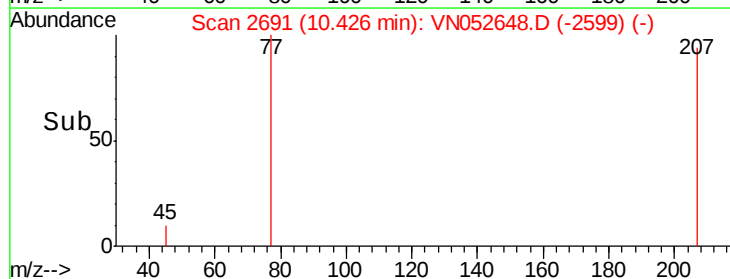
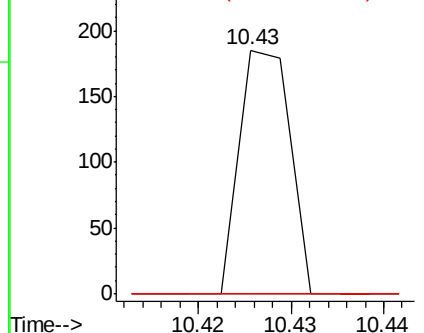
39 0.0 25.9 38.9#

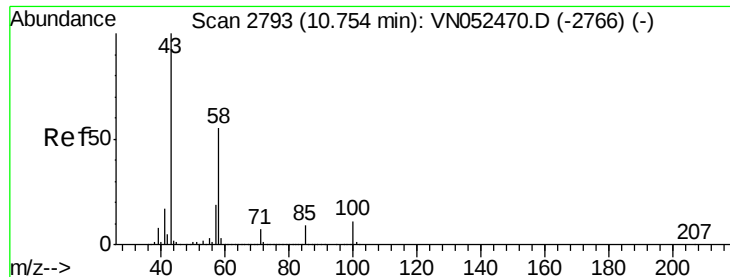


Abundance Ion 69.00 (68.70 to 69.70): VN052470.D (-2675) (-)

Ion 41.00 (40.70 to 41.70): VN052470.D (-2675) (-)

Ion 39.00 (38.70 to 39.70): VN052470.D (-2675) (-)

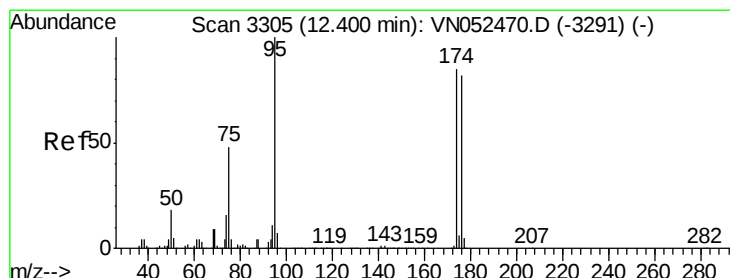
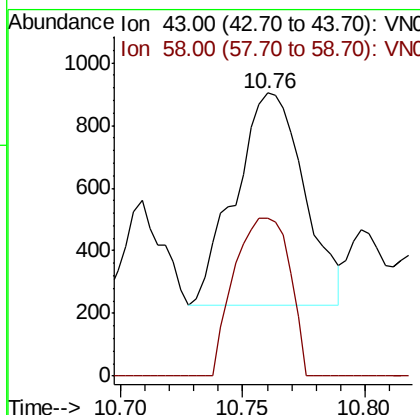
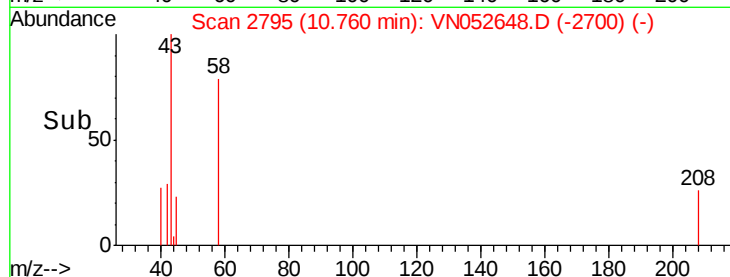
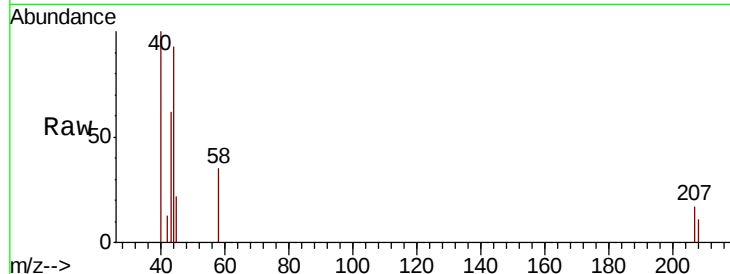




#59
2-Hexanone
Concen: 0.204 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

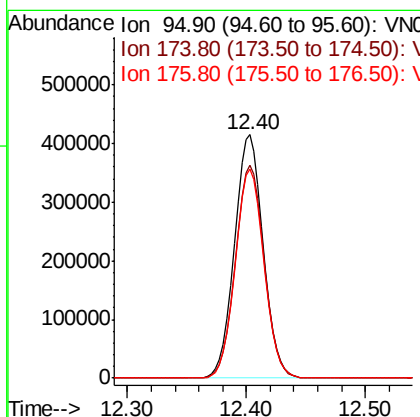
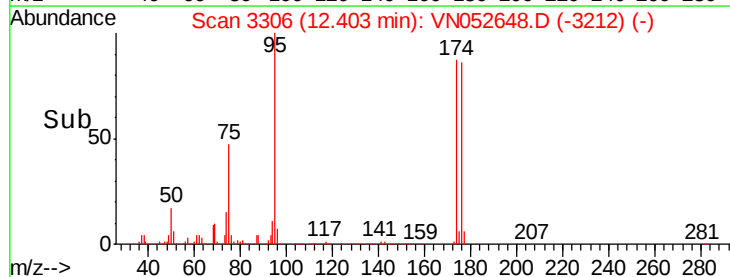
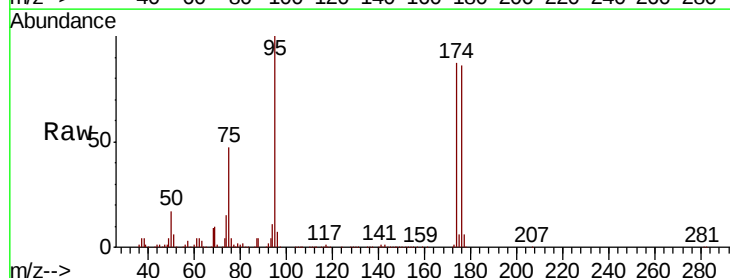
Instrument :
MSVOA_N
ClientSampled :
TB-12-3-18

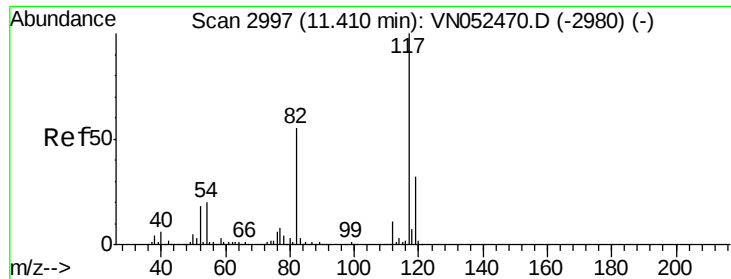
Tot Ion: 43 Resp: 1333
Ion Ratio Lower Upper
43 100
58 59.9 27.4 82.0



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

Tgt Ion: 95 Resp: 690508
Ion Ratio Lower Upper
95 100
174 88.2 0.0 173.0
176 86.1 0.0 166.2

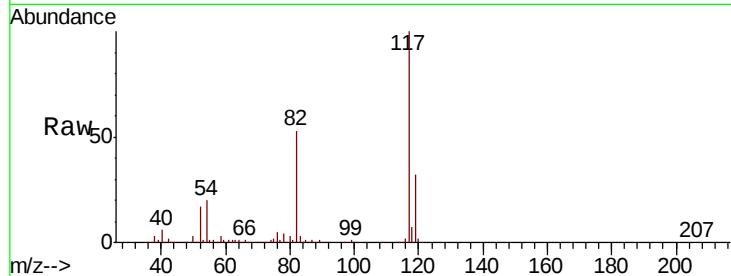




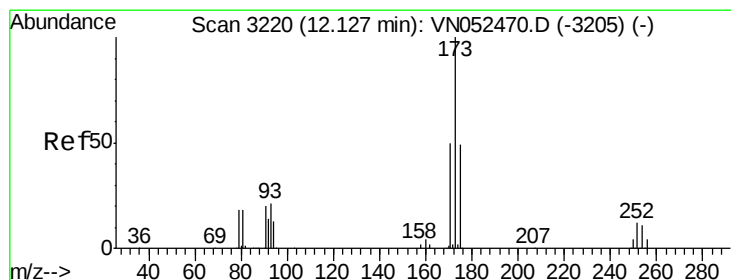
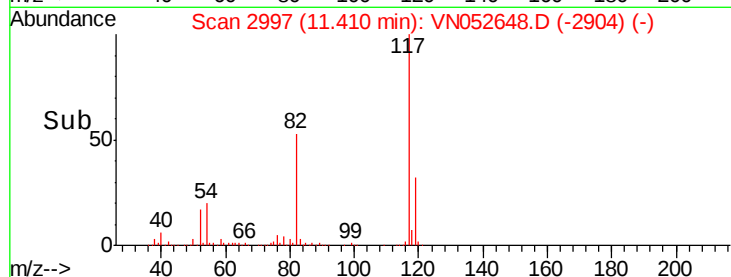
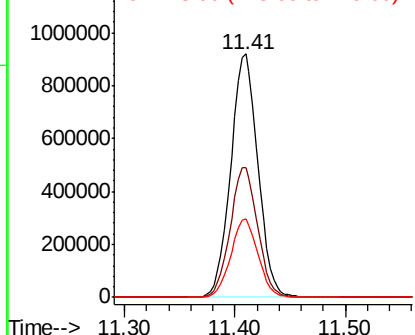
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

Instrument :
MSVOA_N
ClientSampleId :
TB-12-3-18

Tot Ion:117 Resp: 1571337
Ion Ratio Lower Upper
117 100
82 53.5 43.6 65.4
119 32.0 25.4 38.2

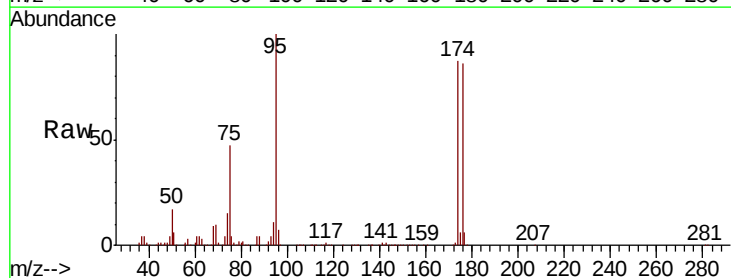


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

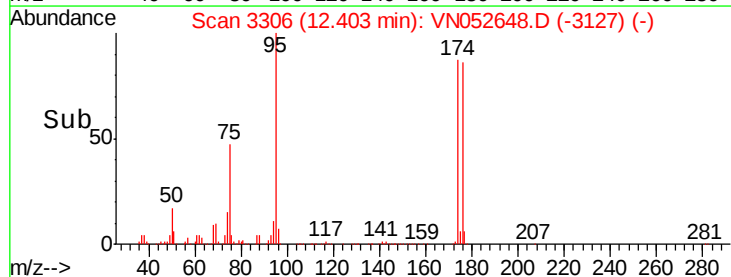
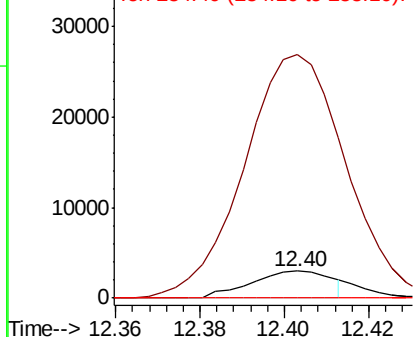


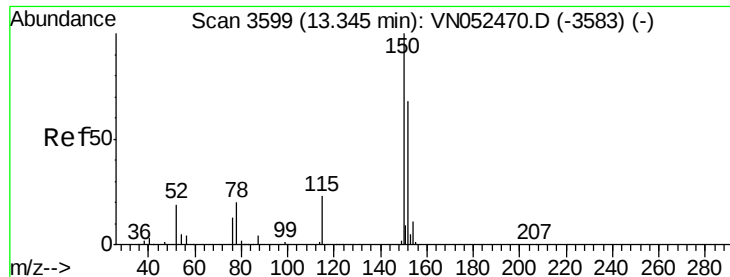
#71
Bromoform
Concen: 0.528 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052648.D
Acq: 4 Dec 2018 12:27

Tgt Ion:173 Resp: 3941
Ion Ratio Lower Upper
173 100
175 980.5 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: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampleId :

TB-12-3-18

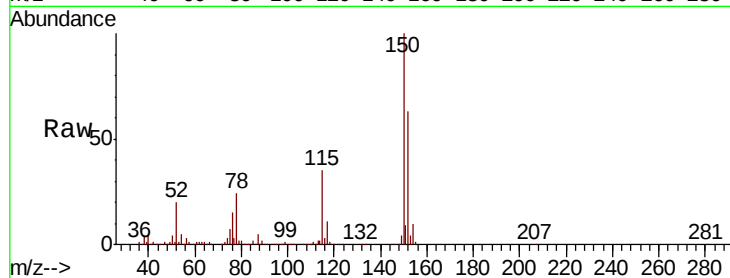
Tot Ion:152 Resp: 599215

Ion Ratio Lower Upper

152 100

115 56.1 28.4 85.2

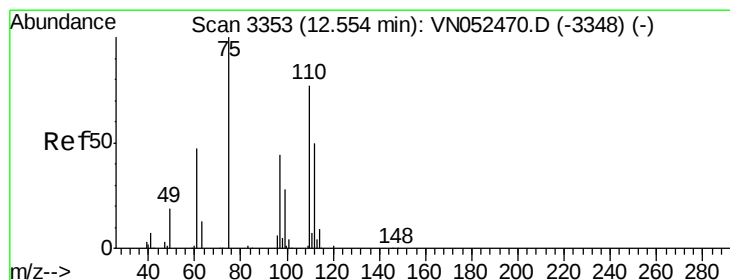
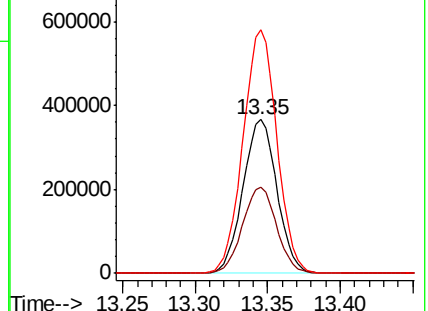
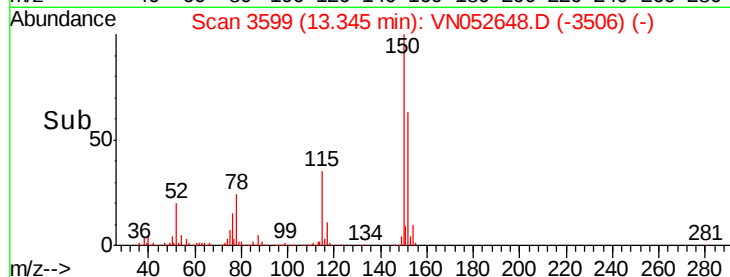
150 157.7 0.0 346.0



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: 35.705 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052648.D

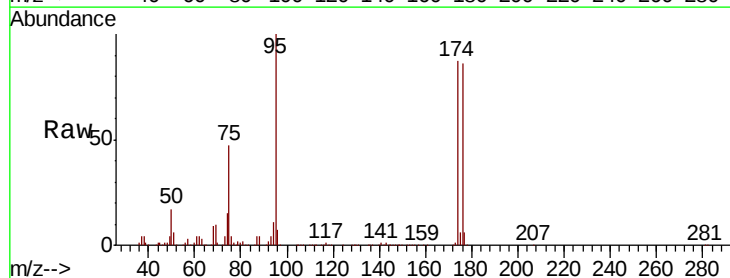
Acq: 4 Dec 2018 12:27

Tgt Ion: 75 Resp: 329926

Ion Ratio Lower Upper

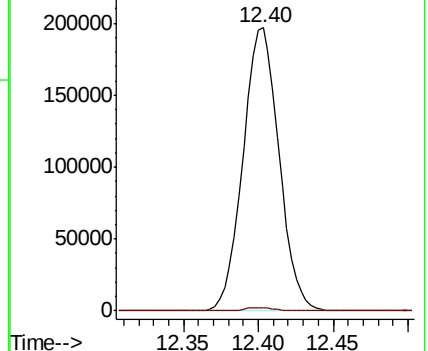
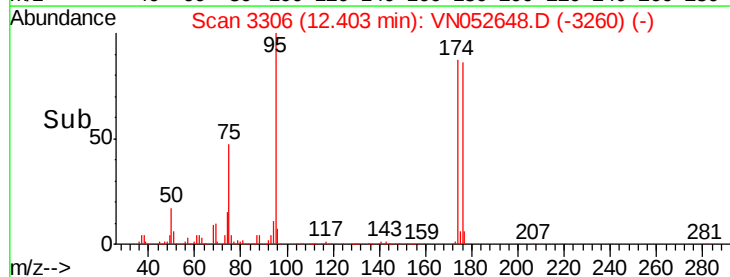
75 100

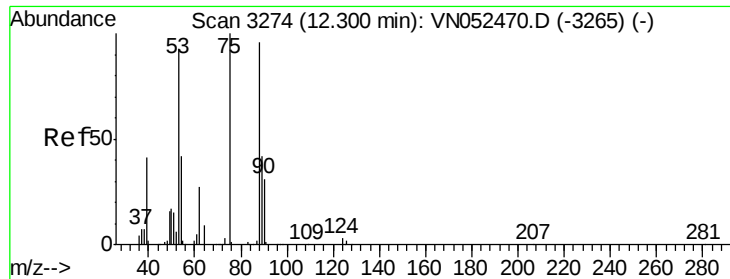
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.239 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampled :

TB-12-3-18

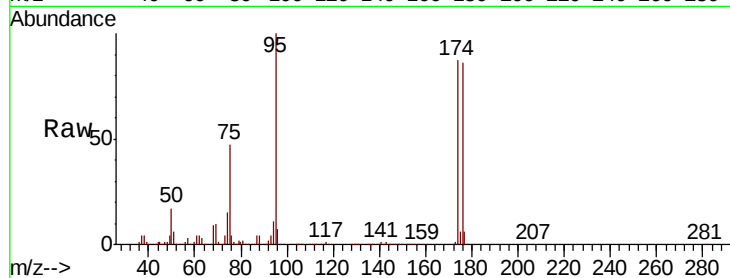
Tot Ion: 75 Resp: 329926

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

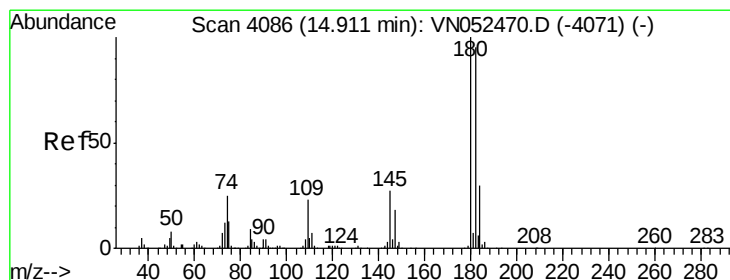
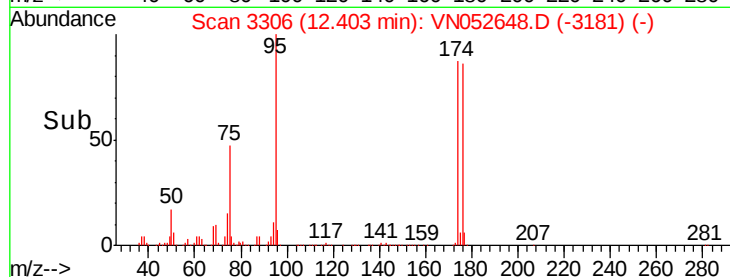
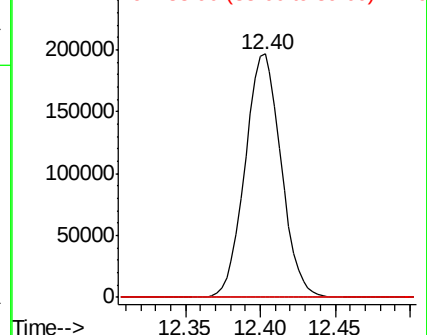


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 3.261 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

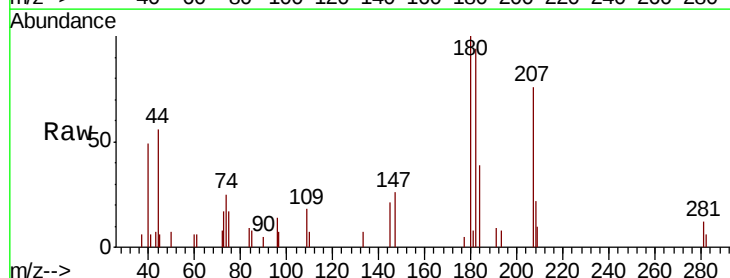
Tgt Ion:180 Resp: 4861

Ion Ratio Lower Upper

180 100

182 96.5 47.8 143.4

145 25.1 14.1 42.3

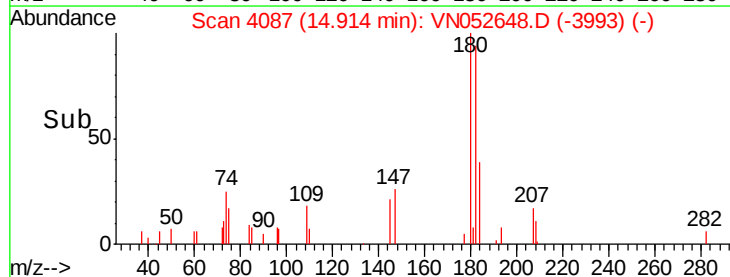
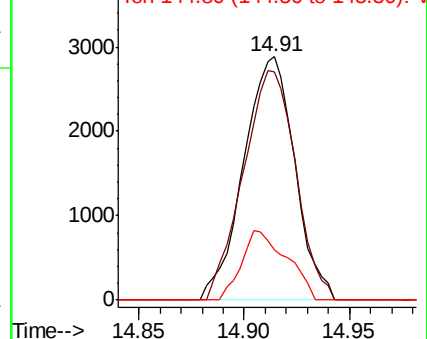


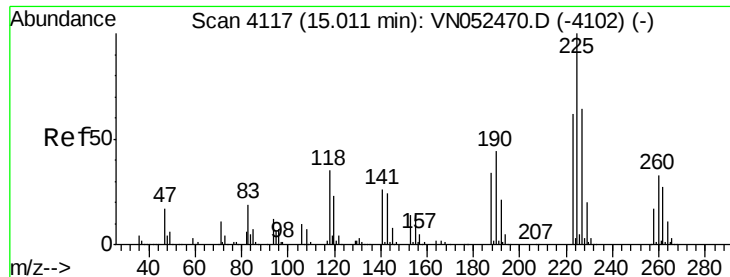
Abundance

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





#94

Hexachlorobutadiene

Concen: 0.276 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

Instrument :

MSVOA_N

ClientSampleId :

TB-12-3-18

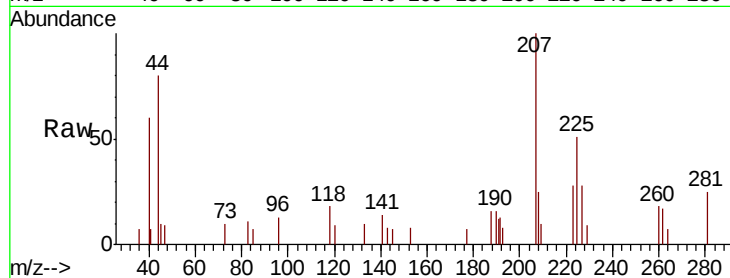
Tot Ion:225 Resp: 1726

Ion Ratio Lower Upper

225 100

223 48.1 31.4 94.2

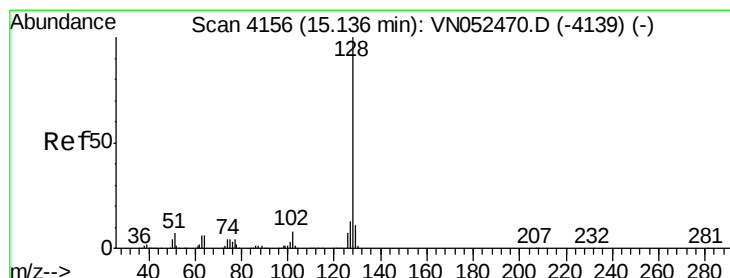
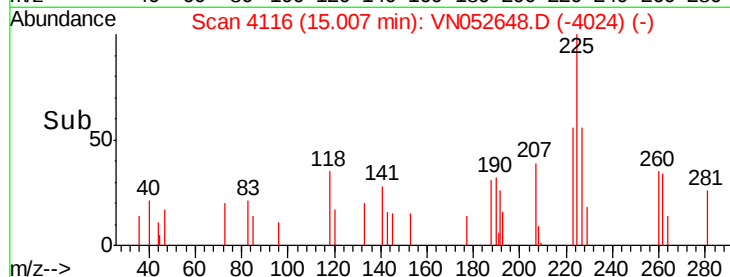
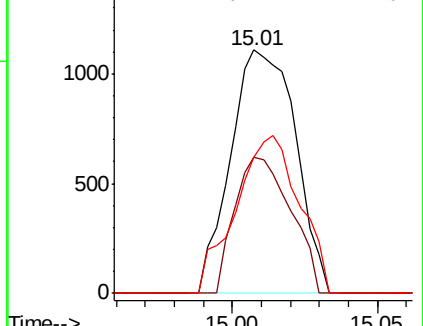
227 63.6 32.5 97.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.974 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052648.D

Acq: 4 Dec 2018 12:27

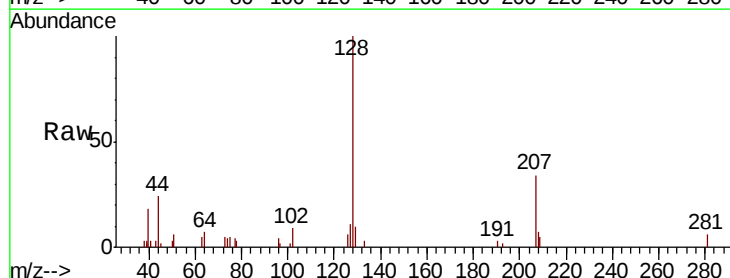
Tgt Ion:128 Resp: 13206

Ion Ratio Lower Upper

128 100

127 11.5 10.2 15.2

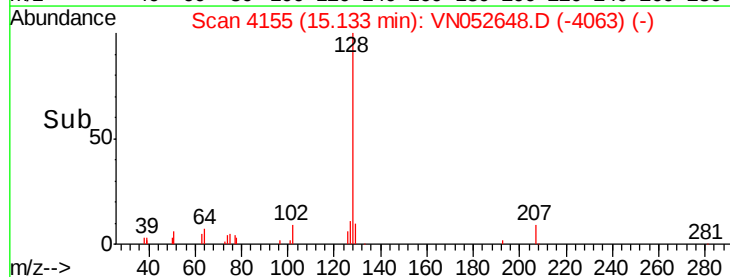
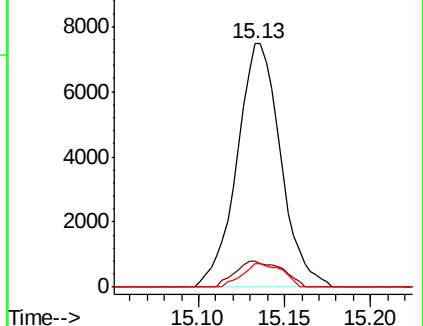
129 8.8 8.7 13.1

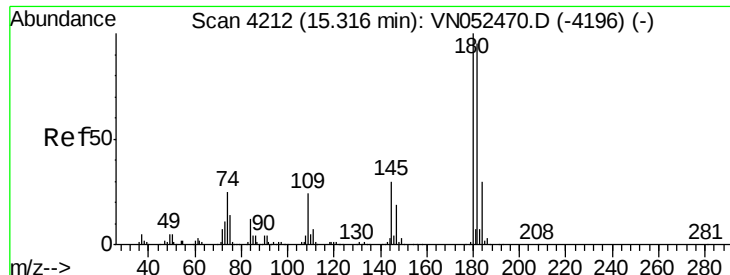


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.236 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052648.D
 Acq: 4 Dec 2018 12:27

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-12-3-18

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.8	143.3
145	26.5	15.2	45.5

