

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062118\
 Data File : VN049480.D
 Acq On : 21 Jun 2018 20:28
 Operator : MD\SY
 Sample : J3570-02
 Misc : 5.01µ/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 03:42:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1115203	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1725490	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1575776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	617064	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	738411	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
35) Dibromofluoromethane	7.59	113	642493	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	
50) Toluene-d8	10.09	98	2427683	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	
62) 4-Bromofluorobenzene	12.40	95	805252	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	

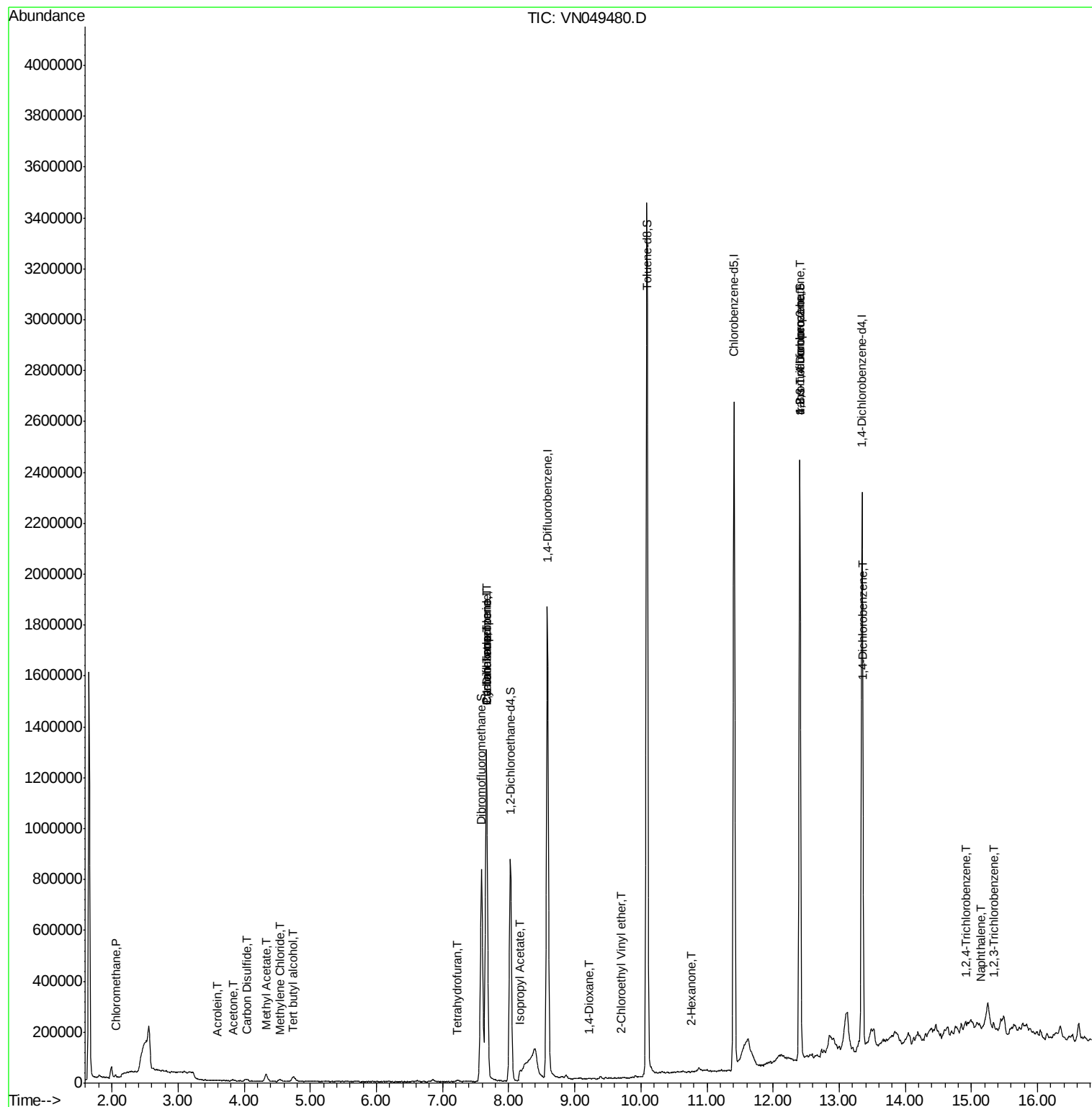
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3849	0.23	ug/l	91
11) Tert butyl alcohol	4.74	59	17673	20.36	ug/l #	73
13) Acrolein	3.60	56	422	0.46	ug/l #	1
16) Acetone	3.83	43	4862	1.35	ug/l #	86
17) Carbon Disulfide	4.04	76	19749	0.49	ug/l	99
18) Methyl Acetate	4.33	43	54786	5.00	ug/l #	79
20) Methylene Chloride	4.55	84	5518	0.37	ug/l #	84
29) Tetrahydrofuran	7.23	42	4425	1.43	ug/l #	65
31) Cyclohexane	7.66	56	20998	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	77133	3.90	ug/l #	51
38) Carbon Tetrachloride	7.66	117	103026	5.03	ug/l #	16
43) Isopropyl Acetate	8.17	43	25988	1.27	ug/l #	64
49) 1,4-Dioxane	9.21	88	114	0.85	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.70	63	68	14.34	ug/l #	51
59) 2-Hexanone	10.77	43	1704	0.25	ug/l	75
75) 1,1,2,2-Tetrachloroethane	12.51	83	1092	Below	Cal	67
76) 1,2,3-Trichloropropane	12.40	75	388679	36.92	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	388679	116.68	ug/l #	8
88) 1,4-Dichlorobenzene	13.37	146	4833	0.21	ug/l #	1
90) Hexachloroethane	13.72	117	659	Below	Cal	68
93) 1,2,4-Trichlorobenzene	14.91	180	2908	4.99	ug/l	96
94) Hexachlorobutadiene	15.02	225	1190	Below	Cal	94
95) Naphthalene	15.14	128	10628	2.70	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.33	180	1414	3.58	ug/l #	1

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

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Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 22 03:42:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :

MSVOA_N

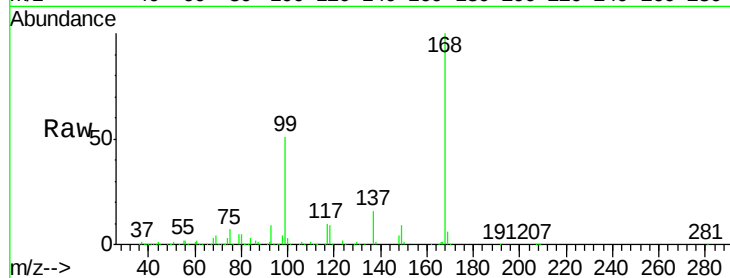
ClientSampleId :

Tot Ion:168 Resp: 1115203

Ion Ratio Lower Upper

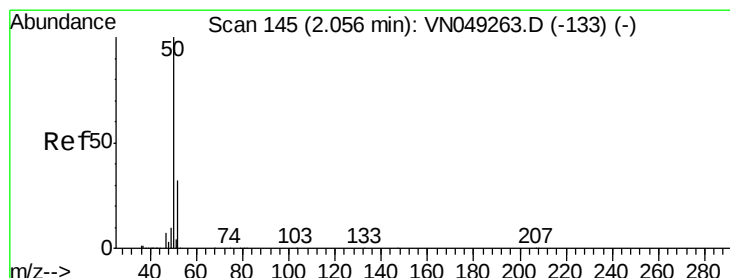
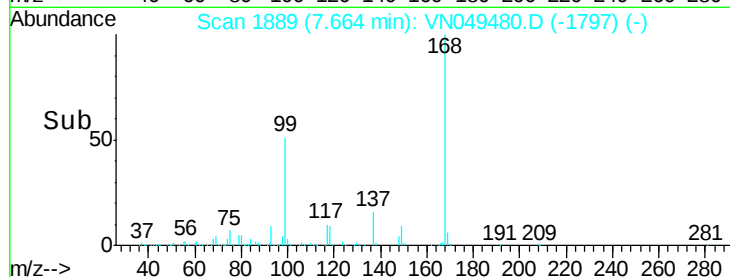
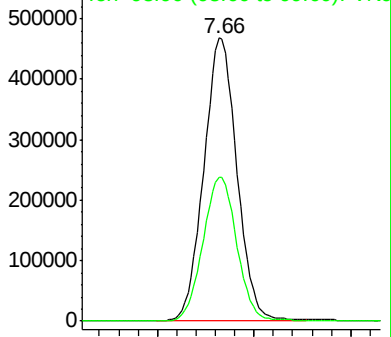
168 100

99 50.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049480.D

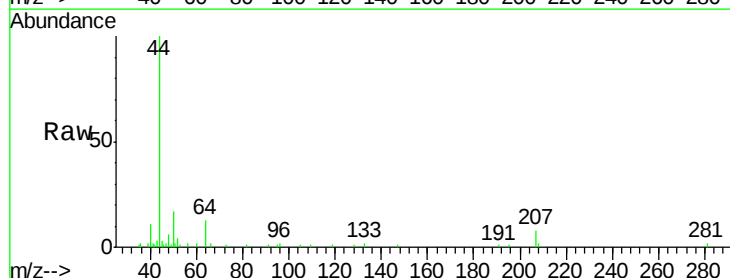
Acq: 21 Jun 2018 20:28

Tgt Ion: 50 Resp: 3849

Ion Ratio Lower Upper

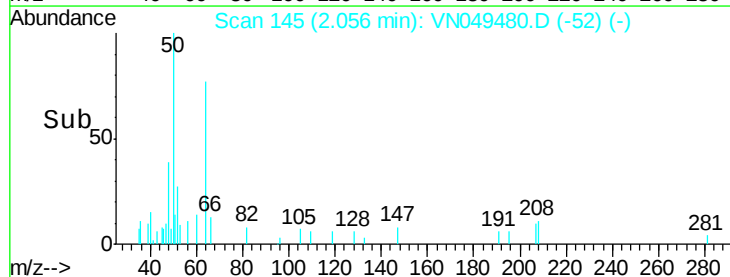
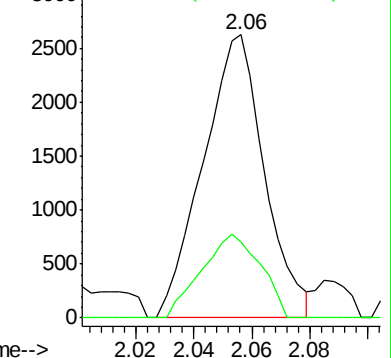
50 100

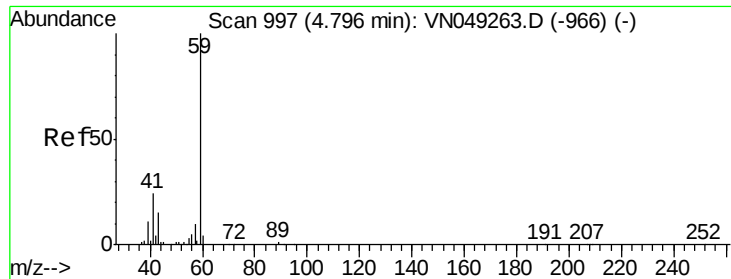
52 26.7 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

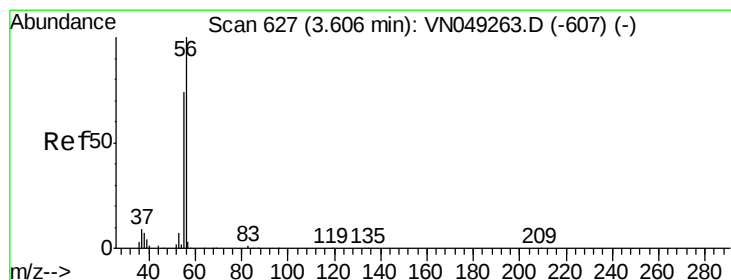
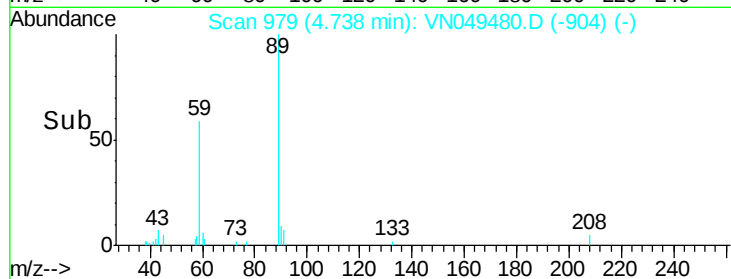
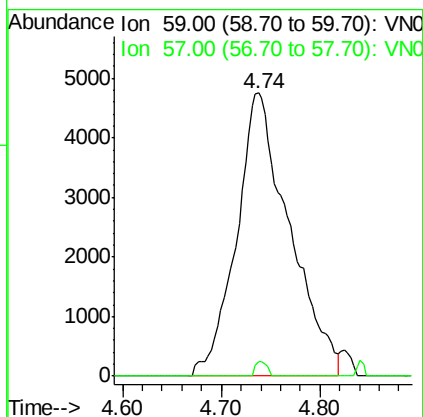
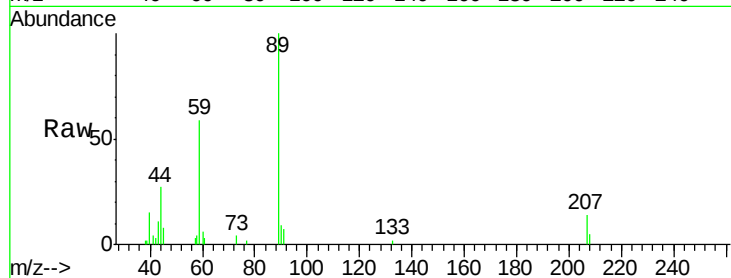




#11
Tert butyl alcohol
Concen: 20.36 ug/l
RT: 4.74 min Scan# 979
Delta R.T. -0.06 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

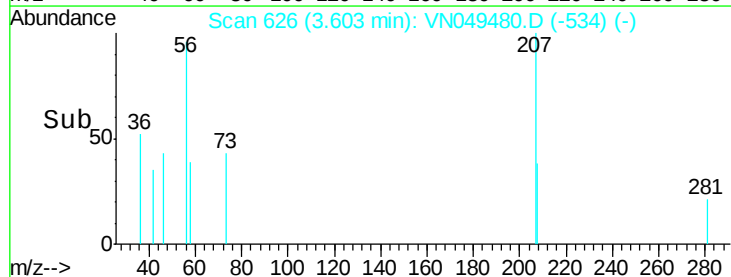
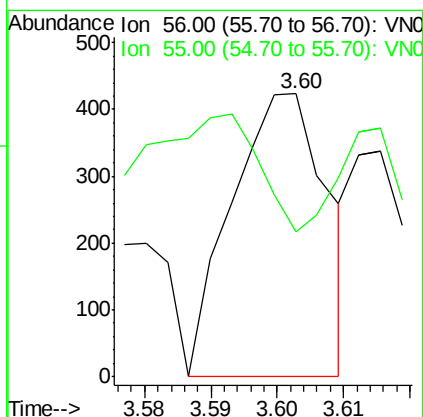
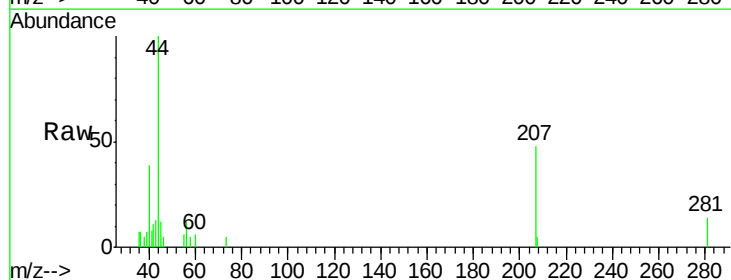
Instrument :
MSVOA_N
ClientSampled :

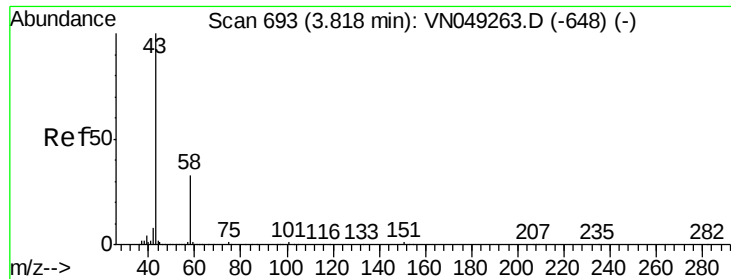
Tot Ion: 59 Resp: 17673
Ion Ratio Lower Upper
59 100
57 1.1 9.0 13.6#



#13
Acrolein
Concen: 0.46 ug/l
RT: 3.60 min Scan# 626
Delta R.T. -0.00 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

Tgt Ion: 56 Resp: 422
Ion Ratio Lower Upper
56 100
55 155.7 57.1 85.7#





#16

Acetone

Concen: 1.35 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :

MSVOA_N

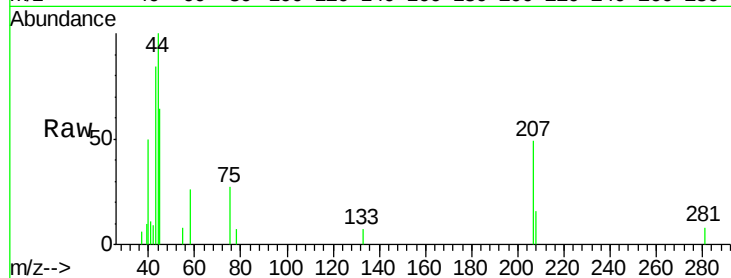
ClientSampled :

Tot Ion: 43 Resp: 4862

Ion Ratio Lower Upper

43 100

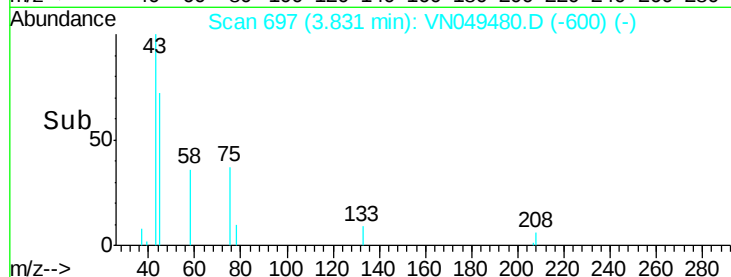
58 35.4 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-648) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-648) (-)

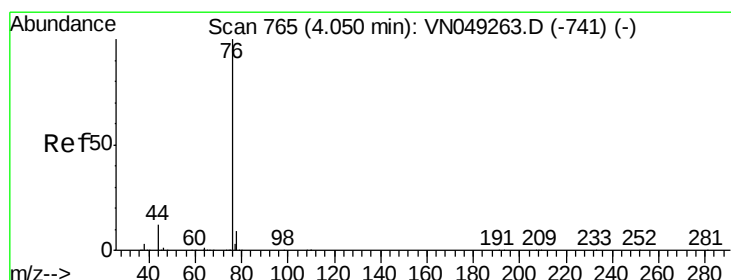
Time-->



Abundance Ion 43.00 (42.70 to 43.70): VN049480.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN049480.D (-600) (-)

Time-->



#17

Carbon Disulfide

Concen: 0.49 ug/l

RT: 4.04 min Scan# 761

Delta R.T. -0.01 min

Lab File: VN049480.D

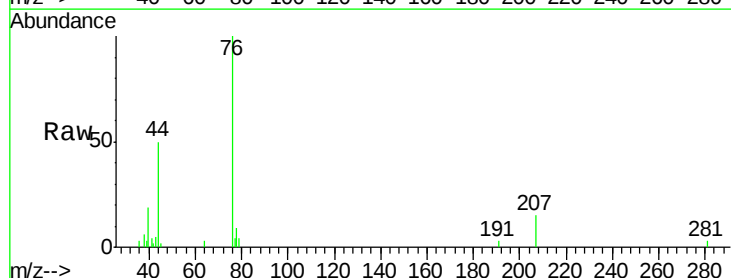
Acq: 21 Jun 2018 20:28

Tgt Ion: 76 Resp: 19749

Ion Ratio Lower Upper

76 100

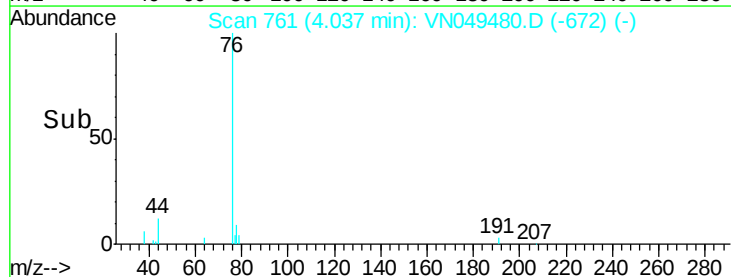
78 8.8 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VN049263.D (-741) (-)

Ion 77.90 (77.60 to 78.60): VN049263.D (-741) (-)

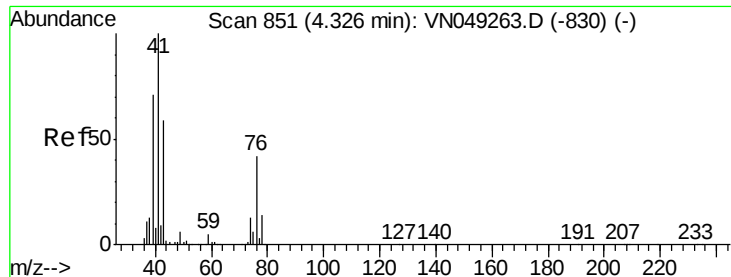
Time-->



Abundance Ion 75.90 (75.60 to 76.60): VN049480.D (-672) (-)

Ion 77.90 (77.60 to 78.60): VN049480.D (-672) (-)

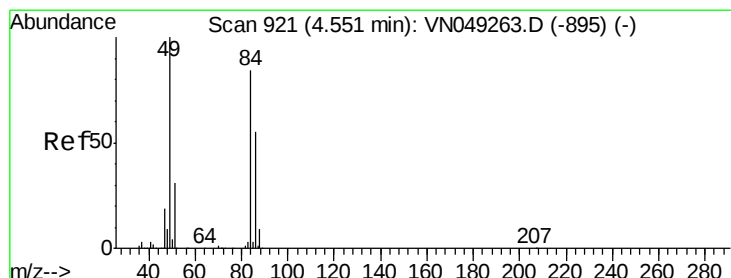
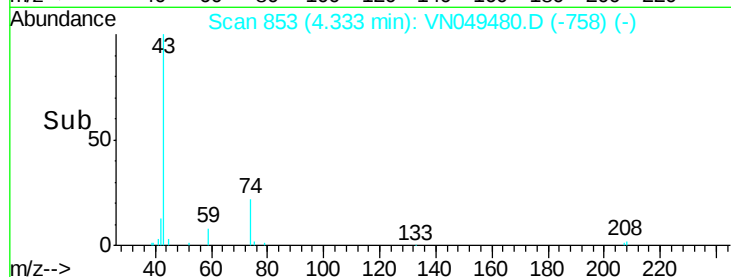
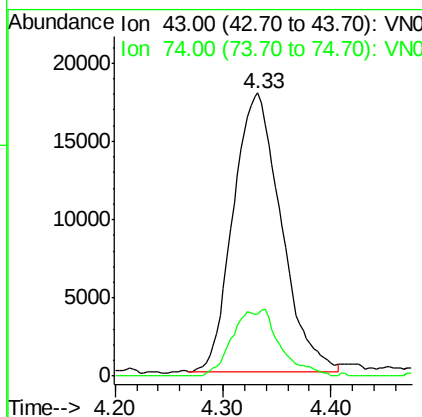
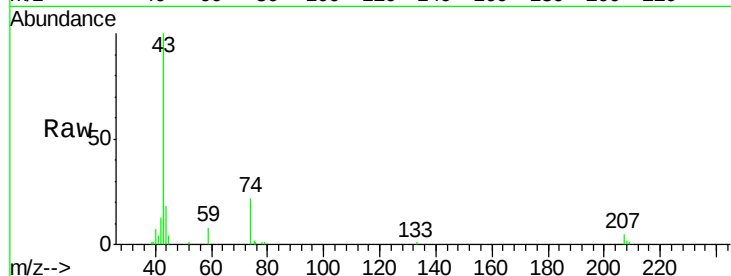
Time-->



#18
Methvl Acetate
Concen: 5.00 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

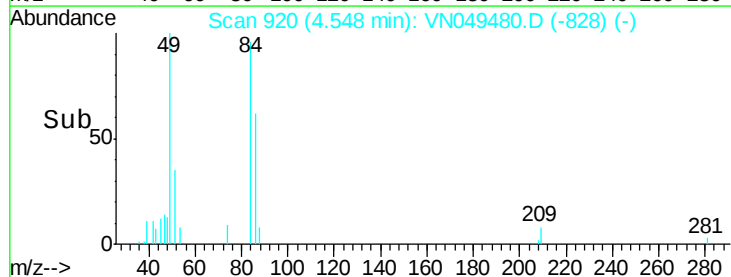
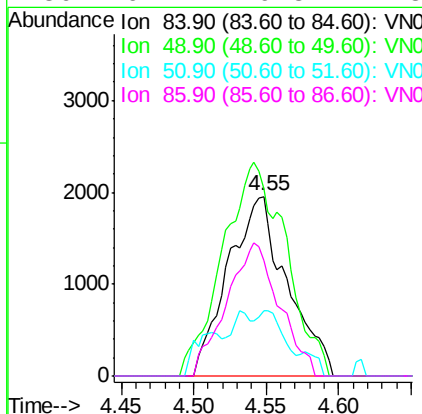
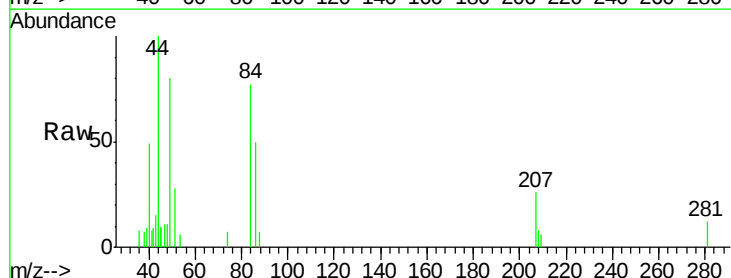
Instrument :
MSVOA_N
ClientSampled :

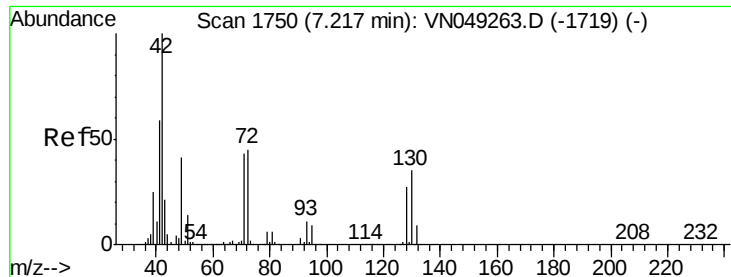
Tot Ion: 43 Resp: 54786
Ion Ratio Lower Upper
43 100
74 11.9 17.4 26.0#



#20
Methylene Chloride
Concen: 0.37 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

Tgt Ion: 84 Resp: 5518
Ion Ratio Lower Upper
84 100
49 104.0 106.9 160.3#
51 36.1 32.7 49.1
86 64.4 49.8 74.8





#29

Tetrahydrofuran

Concen: 1.43 ug/l

RT: 7.23 min Scan# 1754

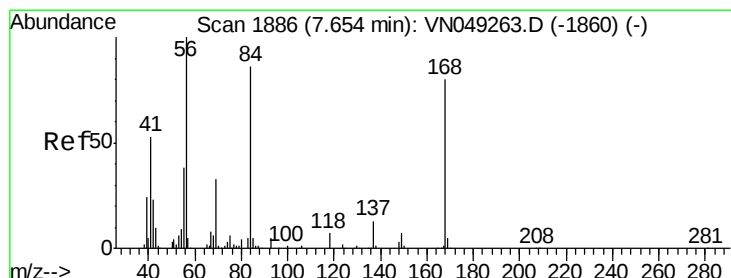
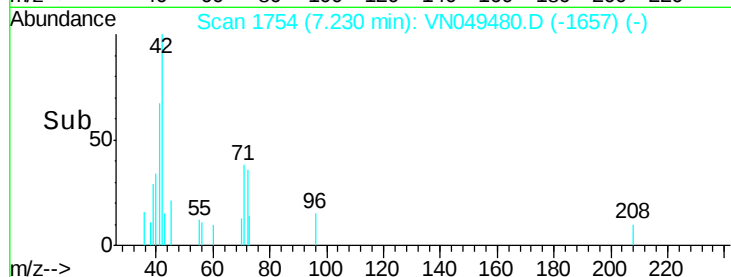
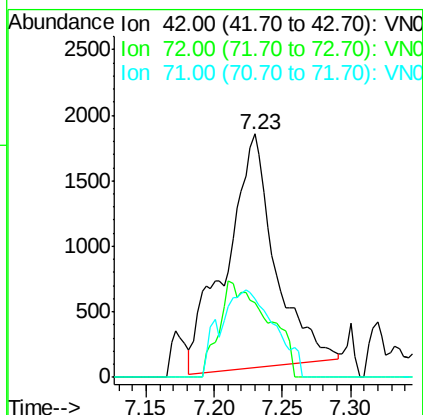
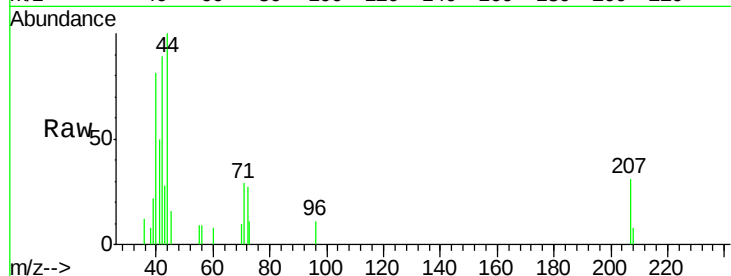
Delta R.T. 0.01 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 4425
Ion Ratio Lower Upper
42 100
72 0.0 32.2 48.4#
71 36.2 30.5 45.7



#31

Cyclohexane

Concen: 0.79 ug/l

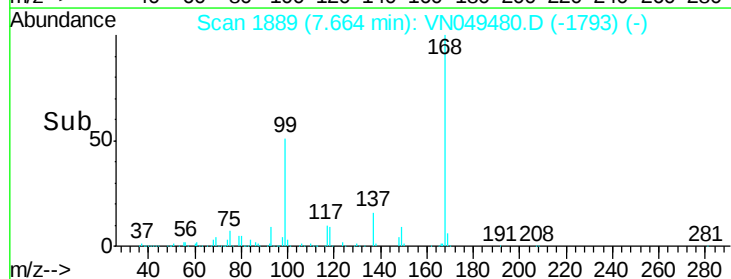
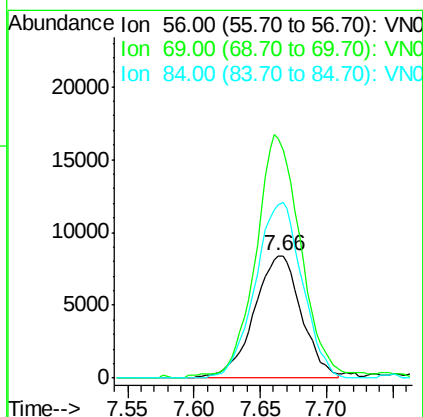
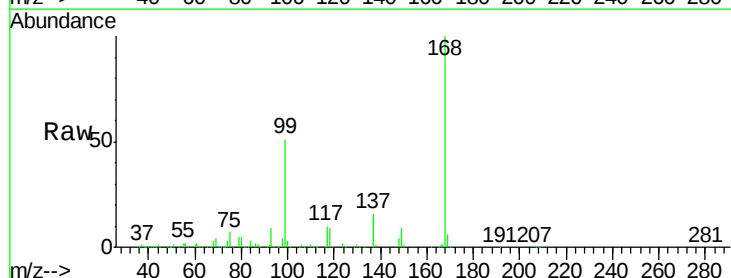
RT: 7.66 min Scan# 1889

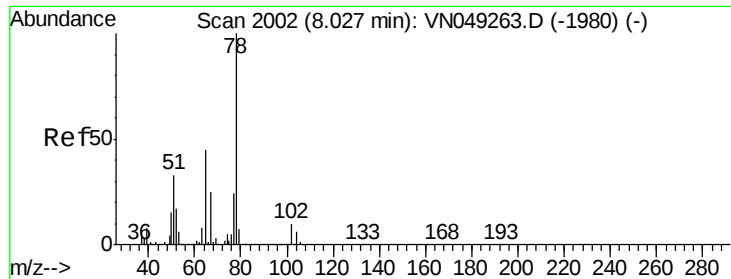
Delta R.T. 0.01 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Tgt Ion: 56 Resp: 20998
Ion Ratio Lower Upper
56 100
69 193.8 25.0 37.4#
84 141.5 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 49.92 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :

MSVOA_N

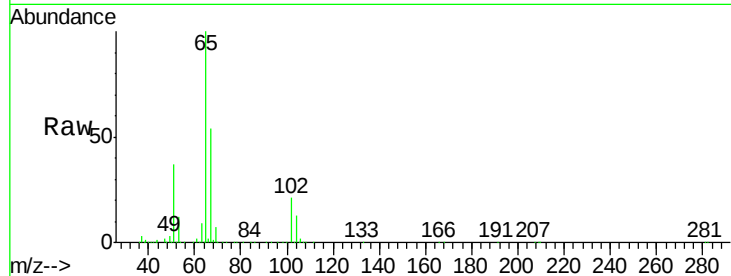
ClientSampleId :

Tot Ion: 65 Resp: 738411

Ion Ratio Lower Upper

65 100

67 53.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049480.D (-2002) (-)

Ion 66.90 (66.60 to 67.60): VN049480.D (-2002) (-)

8.03

300000

200000

100000

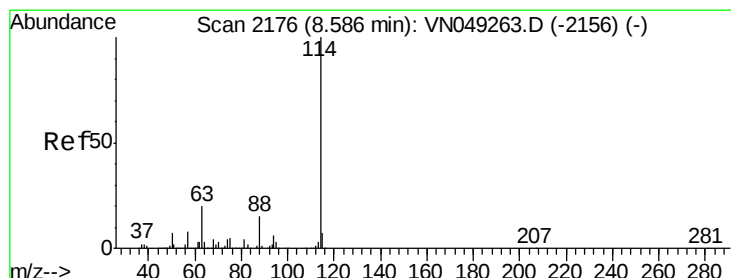
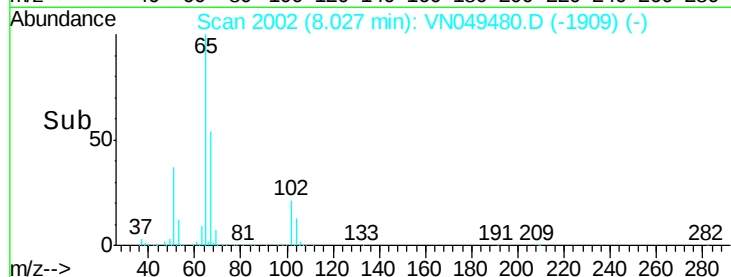
0

Time-->

7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

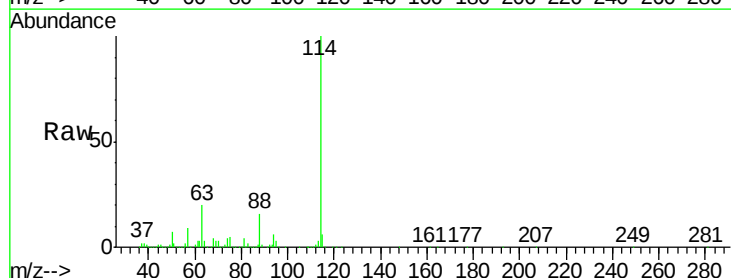
Tgt Ion: 114 Resp: 1725490

Ion Ratio Lower Upper

114 100

63 19.9 0.0 44.4

88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN049480.D (-2176) (-)

Ion 63.00 (62.70 to 63.70): VN049480.D (-2176) (-)

Ion 87.90 (87.60 to 88.60): VN049480.D (-2176) (-)

8.59

1000000

800000

600000

400000

200000

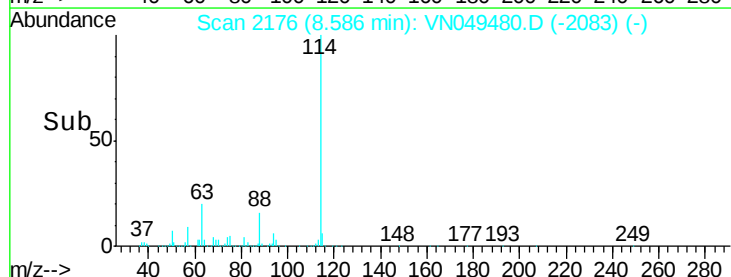
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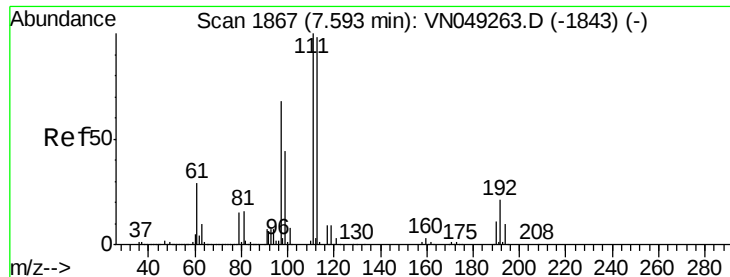
Time-->

8.50

8.60

8.70





#35

Dibromofluoromethane

Concen: 46.02 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :
MSVOA_N
ClientSampleId :

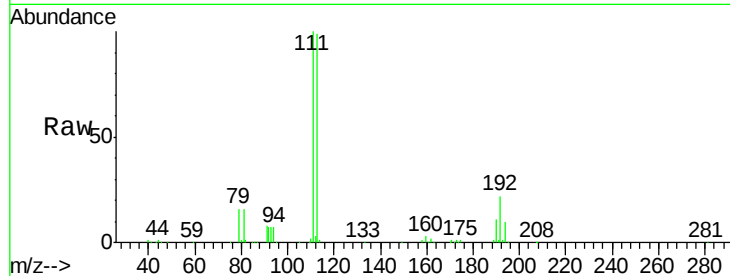
Tot Ion:113 Resp: 642493

Ion Ratio Lower Upper

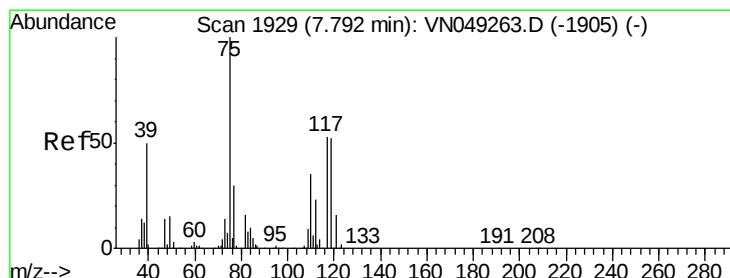
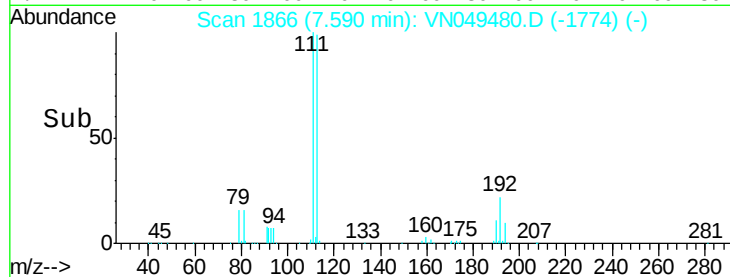
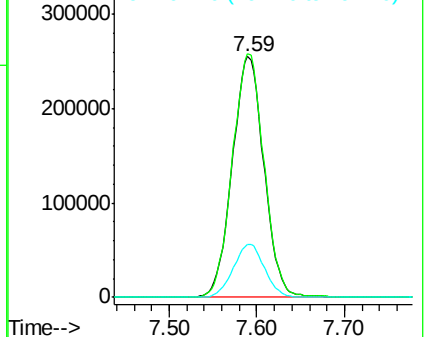
113 100

111 101.1 82.4 123.6

192 21.7 15.0 22.6



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: 3.90 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

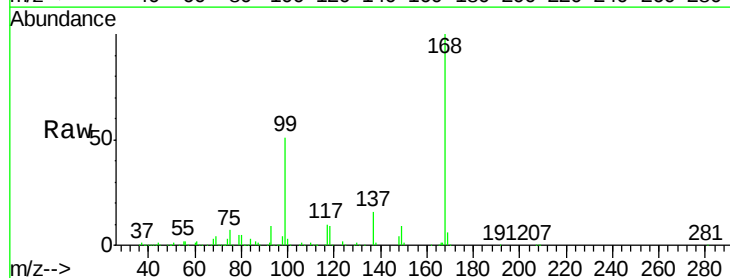
Tgt Ion: 75 Resp: 77133

Ion Ratio Lower Upper

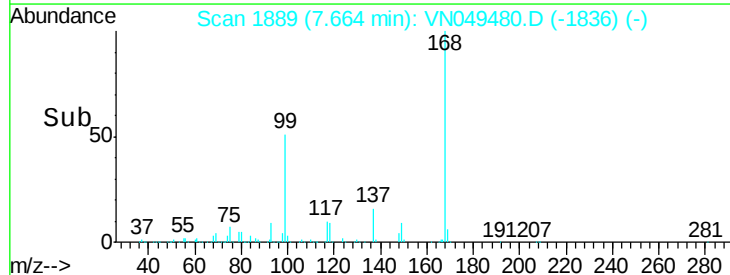
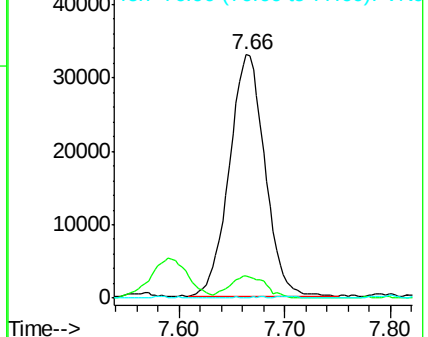
75 100

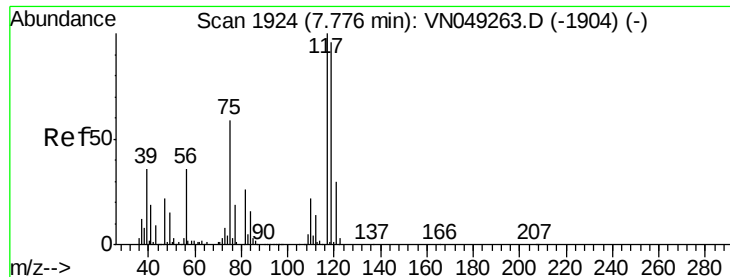
110 9.3 17.0 50.9#

77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.11 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :

MSVOA_N

ClientSampled :

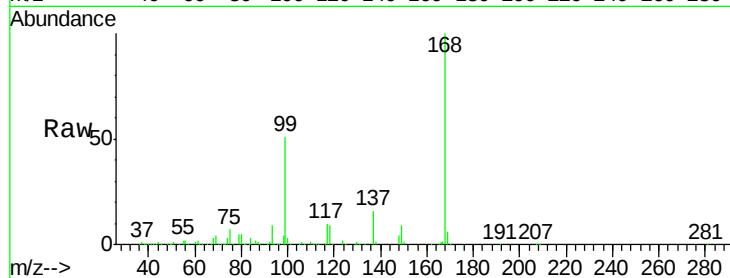
Tot Ion:117 Resp: 103026

Ion Ratio Lower Upper

117 100

119 4.9 75.6 113.4#

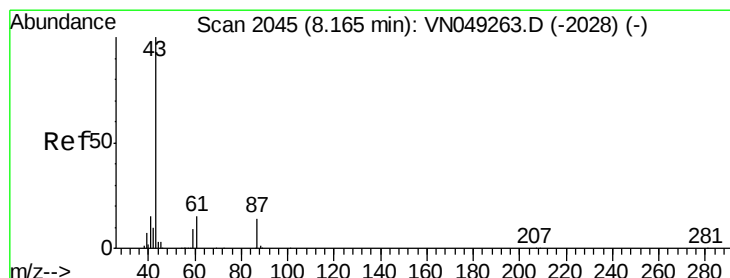
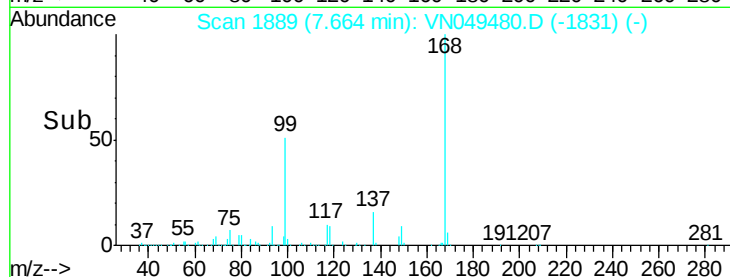
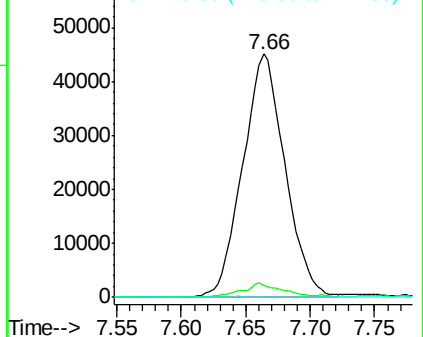
121 0.0 24.7 37.1#



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: 1.27 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.01 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

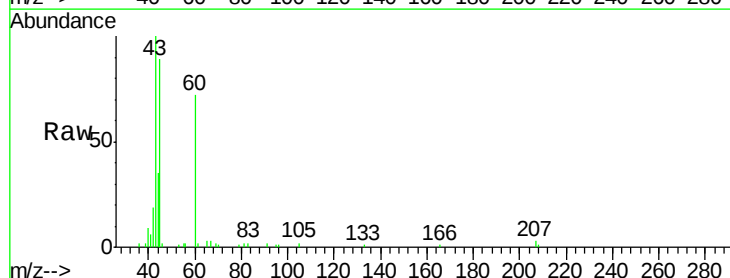
Tgt Ion: 43 Resp: 25988

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

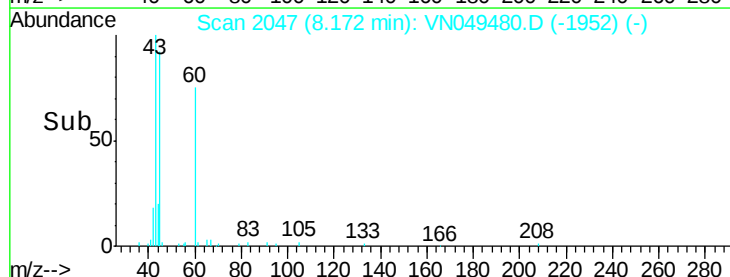
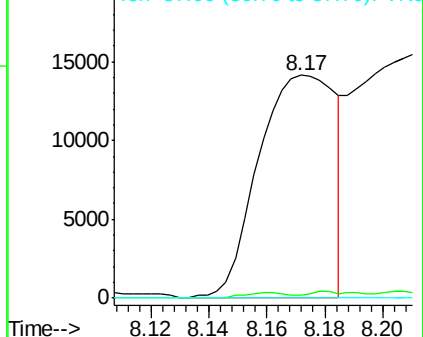
87 0.0 9.4 14.0#

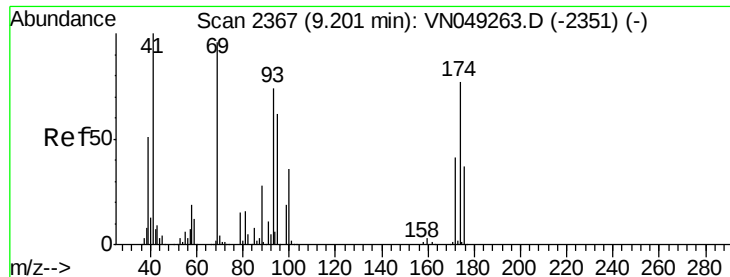


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

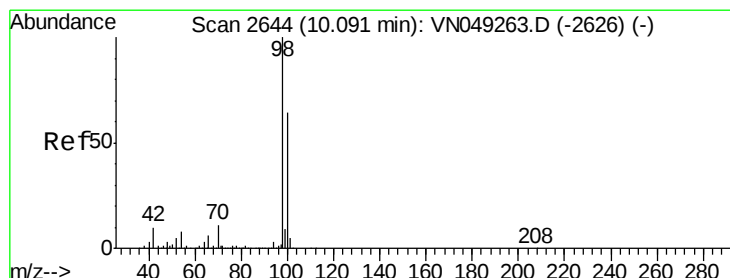
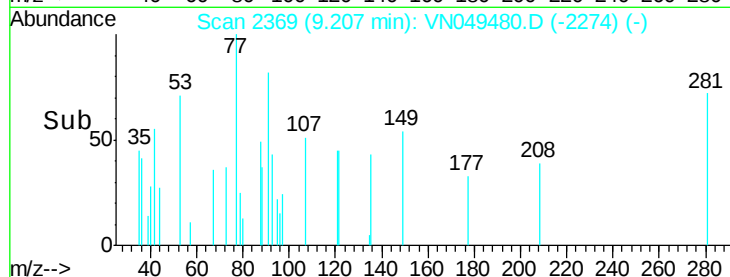
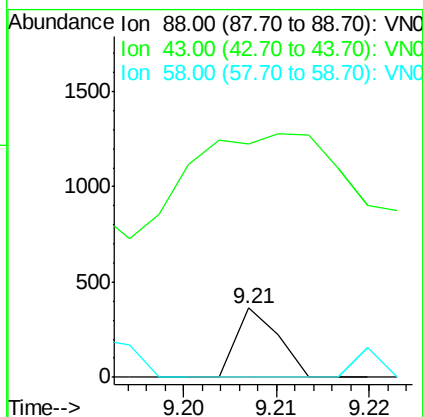
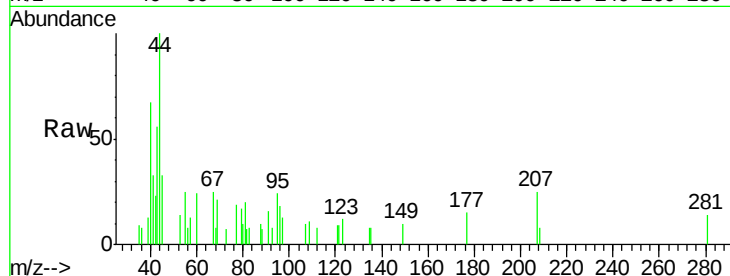




#49
1,4-Dioxane
Concen: 0.85 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.01 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

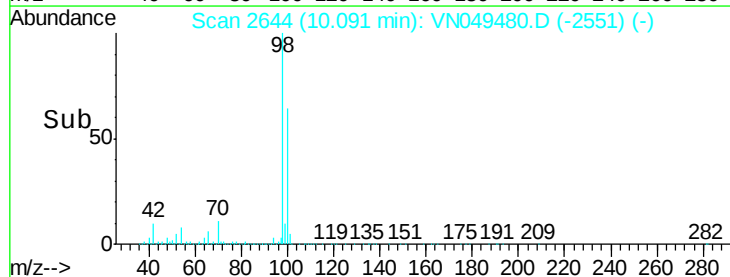
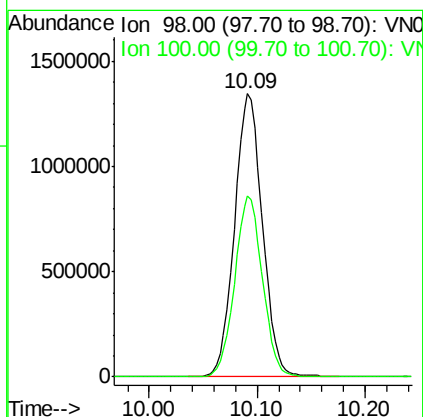
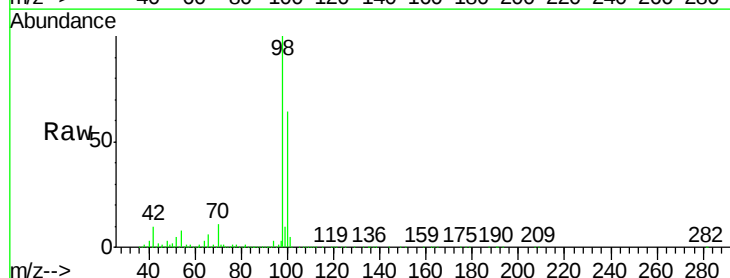
Instrument :
MSVOA_N
ClientSampled :

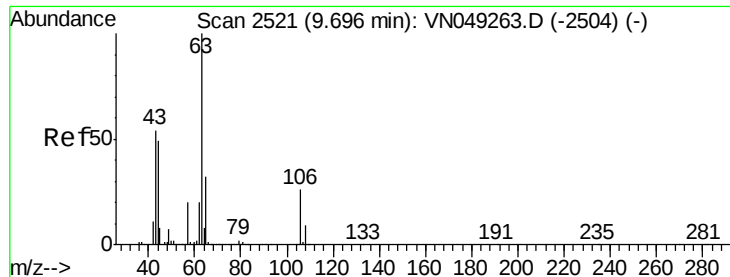
Tot Ion: 88 Resp: 114
Ion Ratio Lower Upper
88 100
43 557.9 30.9 46.3#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 45.67 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

Tgt Ion: 98 Resp: 2427683
Ion Ratio Lower Upper
98 100
100 63.5 49.8 74.8

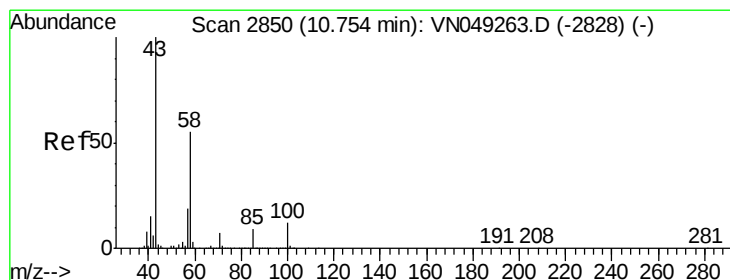
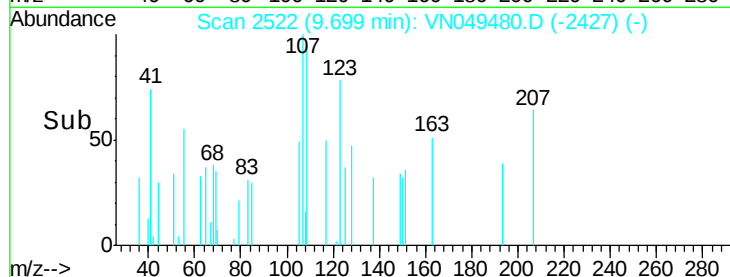
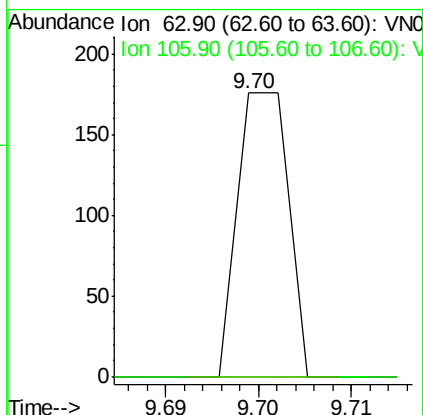
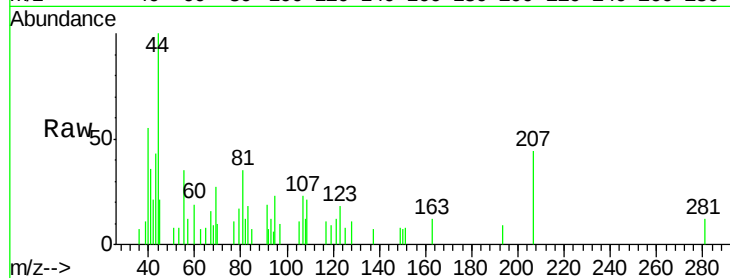




#58
2-Chloroethyl Vinyl ether
Concen: 14.34 ug/l
RT: 9.70 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

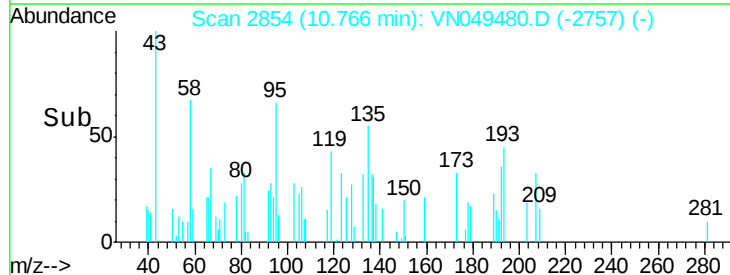
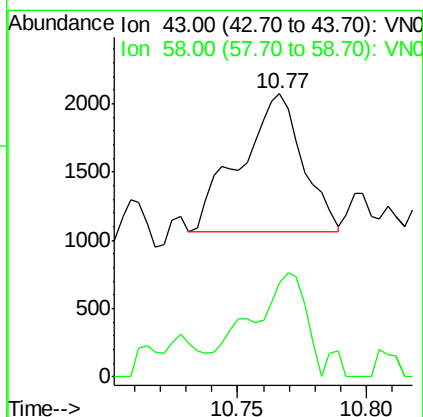
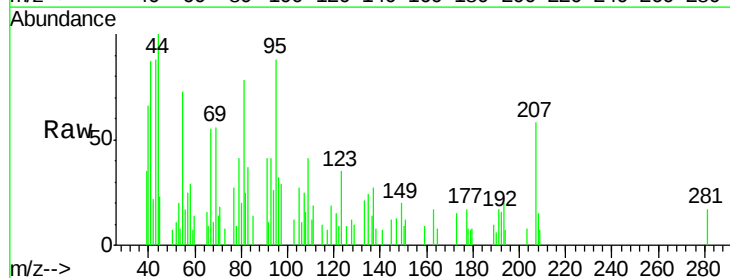
Instrument :
MSVOA_N
ClientSampleId :

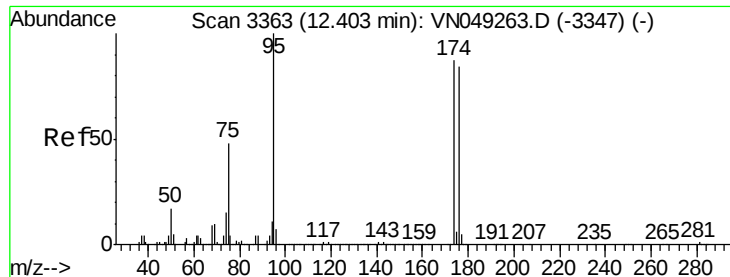
Tot Ion: 63 Resp: 68
Ion Ratio Lower Upper
63 100
106 0.0 19.4 29.2#



#59
2-Hexanone
Concen: 0.25 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN049480.D
Acq: 21 Jun 2018 20:28

Tgt Ion: 43 Resp: 1704
Ion Ratio Lower Upper
43 100
58 67.6 25.2 75.6





#62

4-Bromofluorobenzene

Concen: 45.82 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :

MSVOA_N

ClientSampleId :

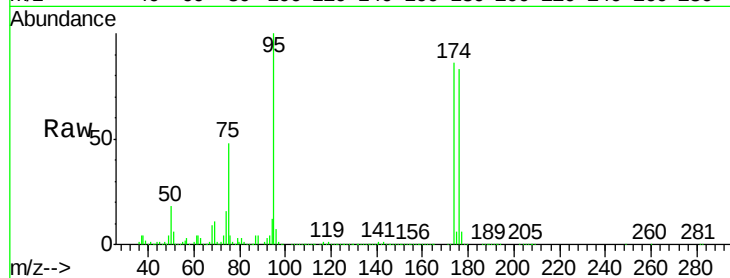
Tot Ion: 95 Resp: 805252

Ion Ratio Lower Upper

95 100

174 86.9 0.0 165.6

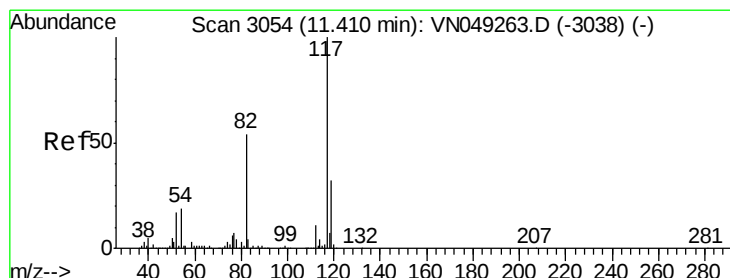
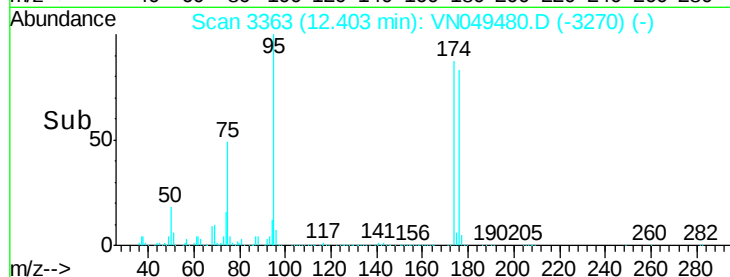
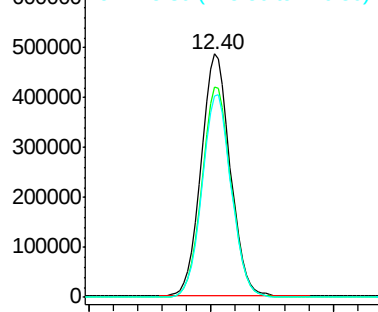
176 84.1 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

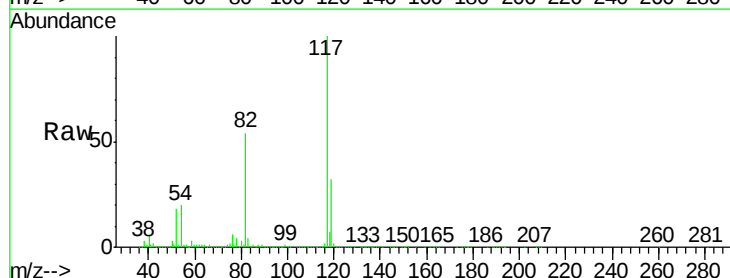
Tgt Ion: 117 Resp: 1575776

Ion Ratio Lower Upper

117 100

82 54.0 45.9 68.9

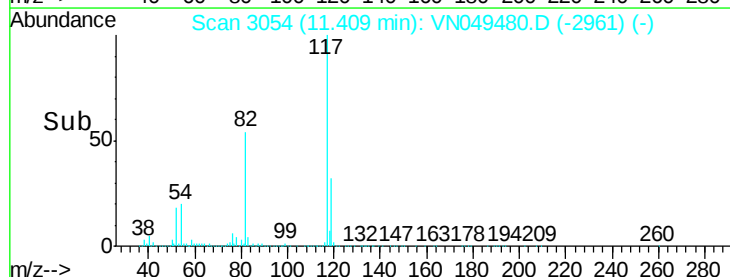
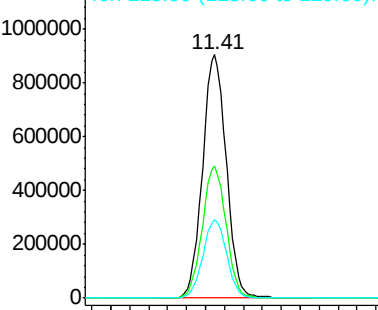
119 32.2 25.5 38.3

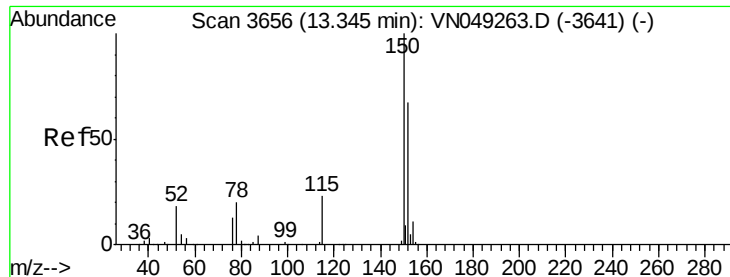


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

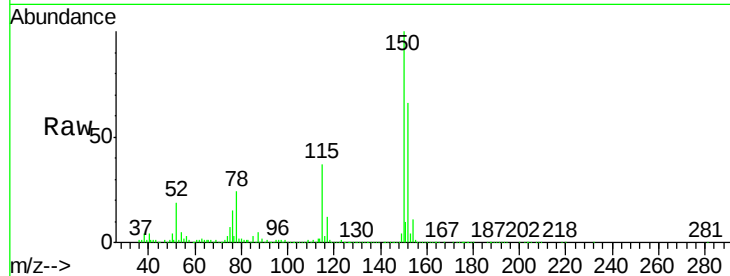




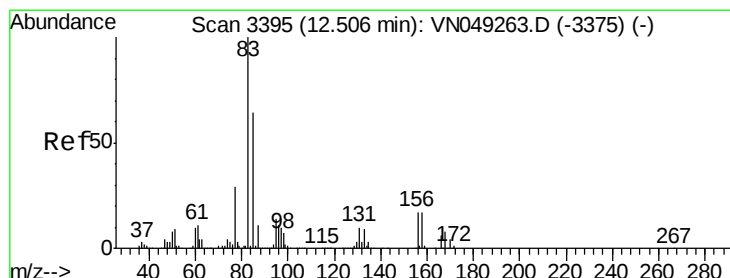
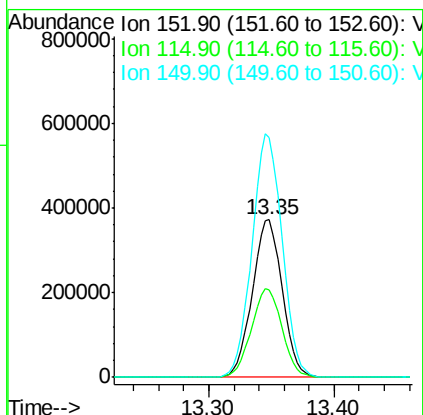
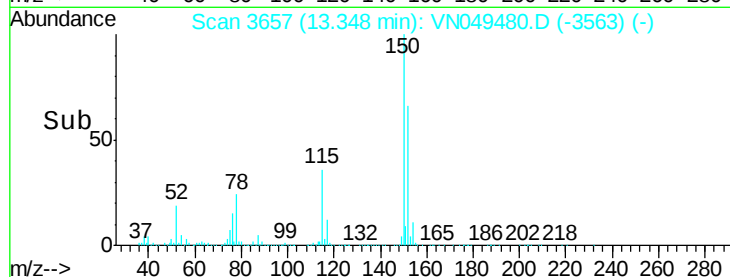
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3657
 Delta R.T. 0.00 min
 Lab File: VN049480.D
 Acq: 21 Jun 2018 20:28

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:152 Resp: 617064
 Ion Ratio Lower Upper
 152 100
 115 57.3 28.7 86.1
 150 155.5 0.0 351.0

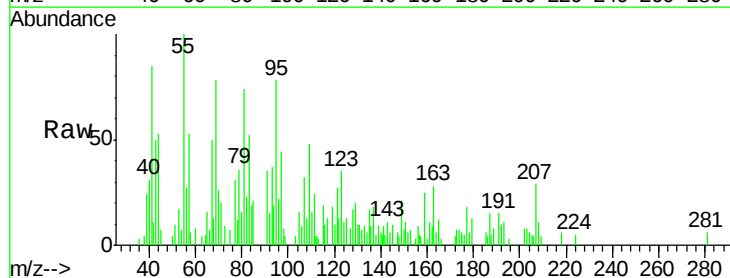


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

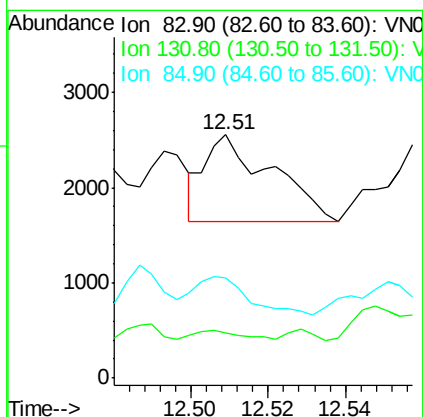
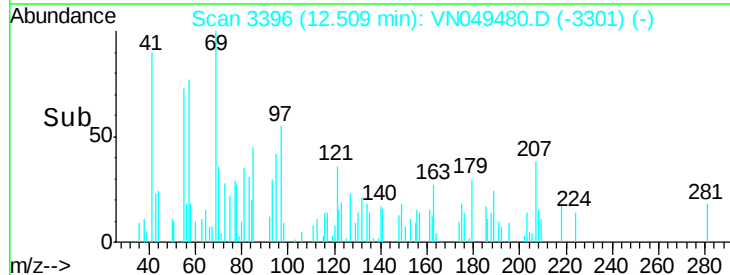


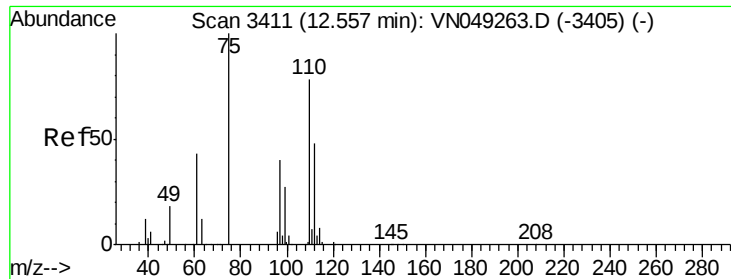
#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VN049480.D
 Acq: 21 Jun 2018 20:28

Tgt Ion: 83 Resp: 1092
 Ion Ratio Lower Upper
 83 100
 131 7.4 5.0 15.0
 85 34.9 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VNO
 Ion 130.80 (130.50 to 131.50): V
 Ion 84.90 (84.60 to 85.60): VNO

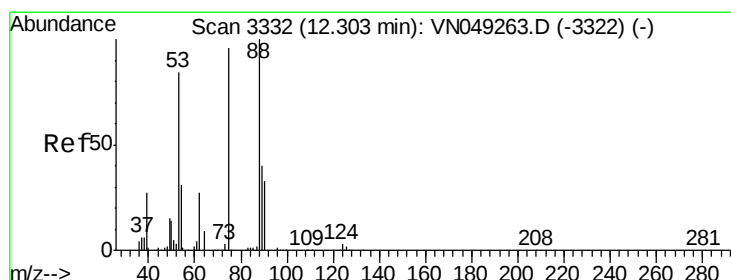
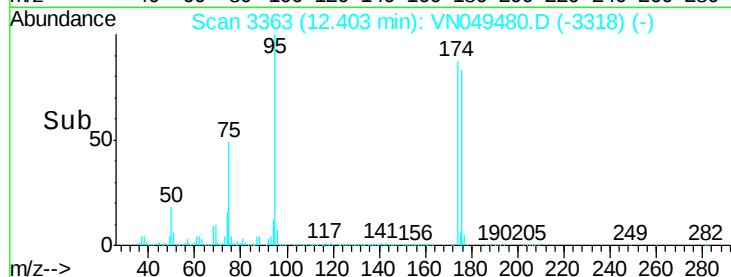
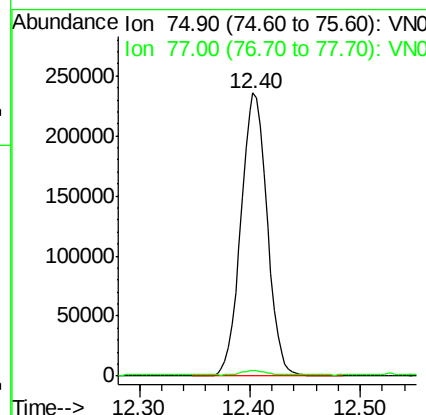
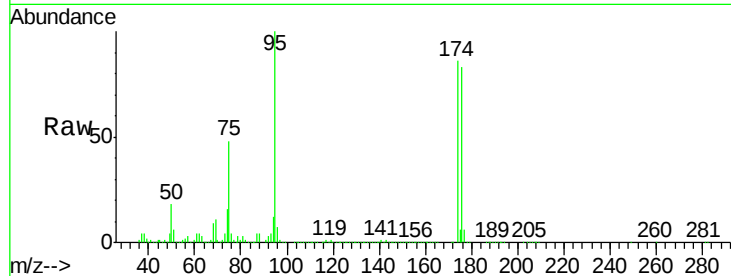




#76
 1,2,3-Trichloropropane
 Concen: 36.92 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049480.D
 Acq: 21 Jun 2018 20:28

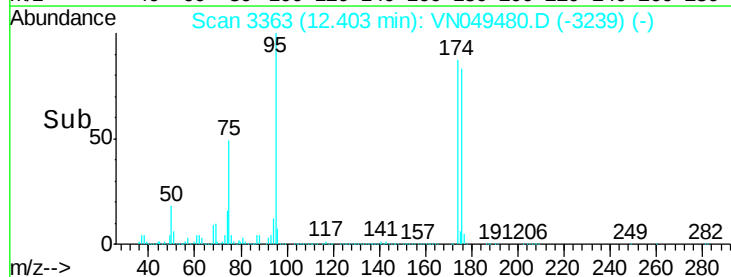
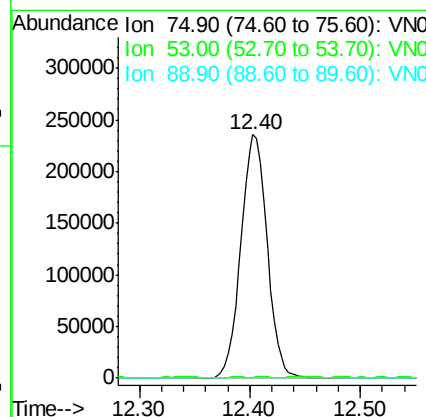
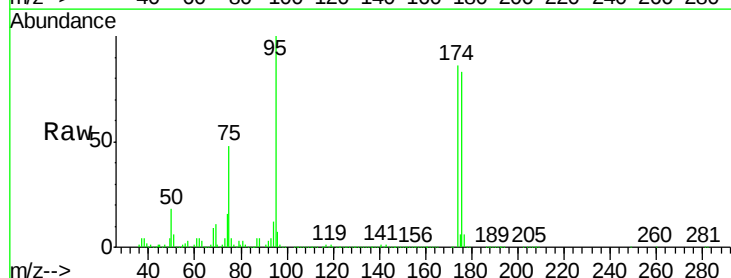
Instrument :
 MSVOA_N
 ClientSampled :

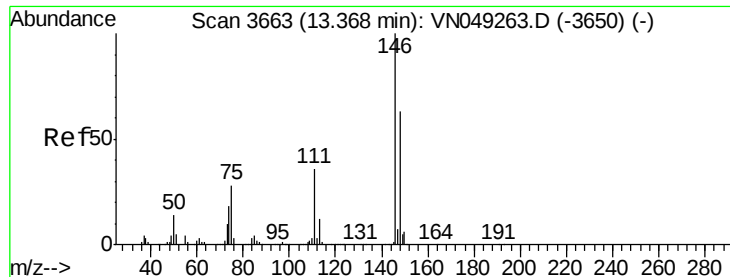
Tot Ion: 75 Resp: 388679
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 116.68 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049480.D
 Acq: 21 Jun 2018 20:28

Tgt Ion: 75 Resp: 388679
 Ion Ratio Lower Upper
 75 100
 53 0.1 82.7 124.1#
 89 0.0 36.5 54.7#





#88

1,4-Dichlorobenzene

Concen: 0.21 ug/l

RT: 13.37 min Scan# 3663

Delta R.T. -0.00 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :

MSVOA_N

ClientSampleId :

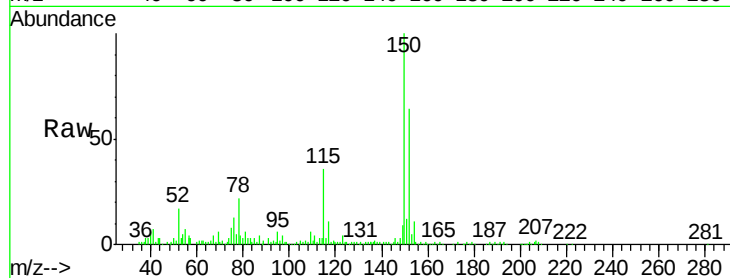
Tot Ion:146 Resp: 4833

Ion Ratio Lower Upper

146 100

111 233.5 19.1 57.1#

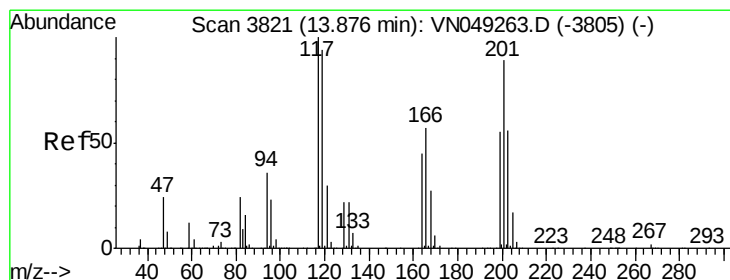
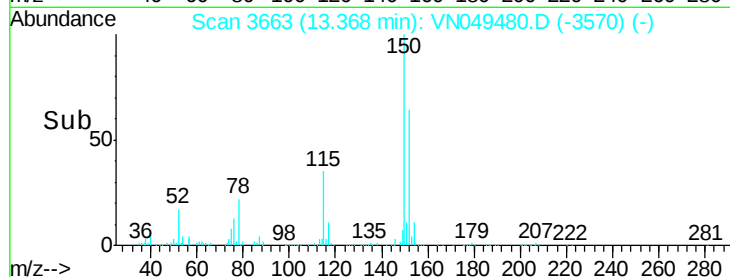
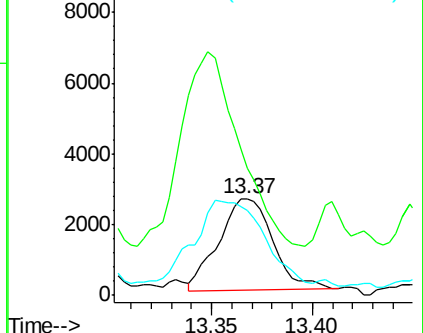
148 124.8 32.0 96.2#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: Below Cal

RT: 13.72 min Scan# 3772

Delta R.T. -0.16 min

Lab File: VN049480.D

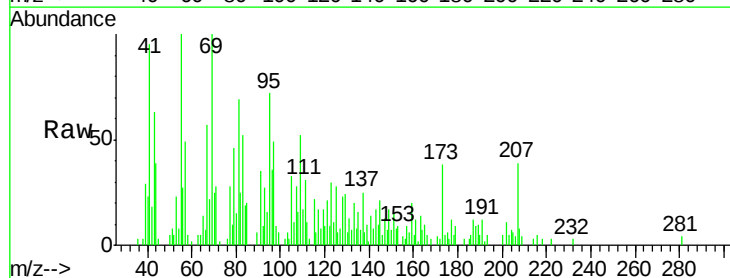
Acq: 21 Jun 2018 20:28

Tgt Ion:117 Resp: 659

Ion Ratio Lower Upper

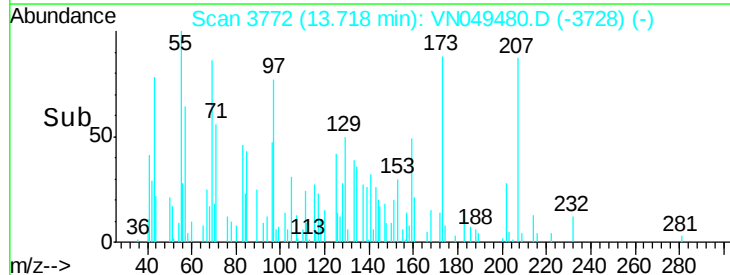
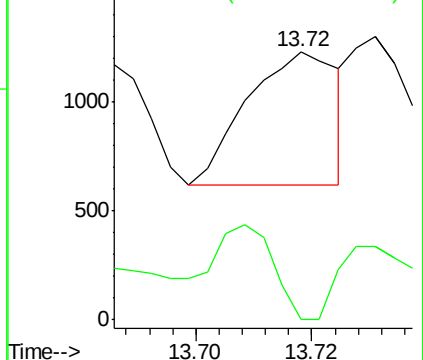
117 100

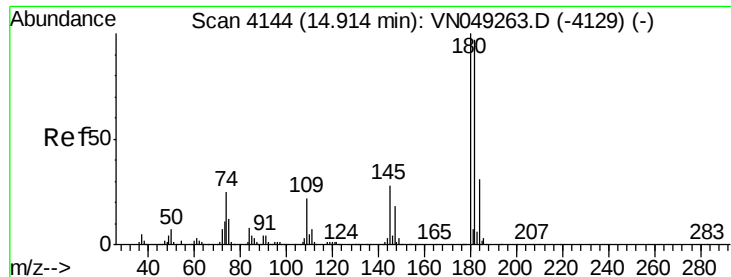
201 51.9 40.1 120.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

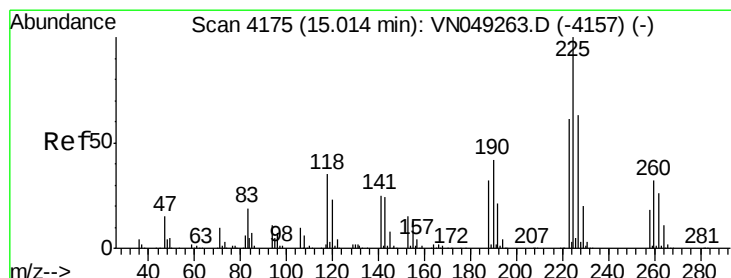
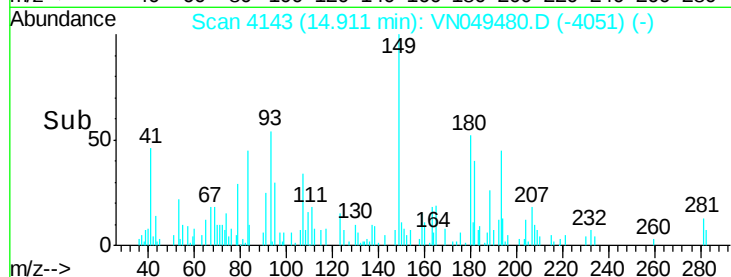
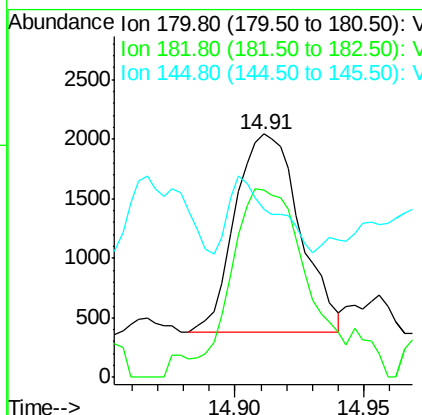
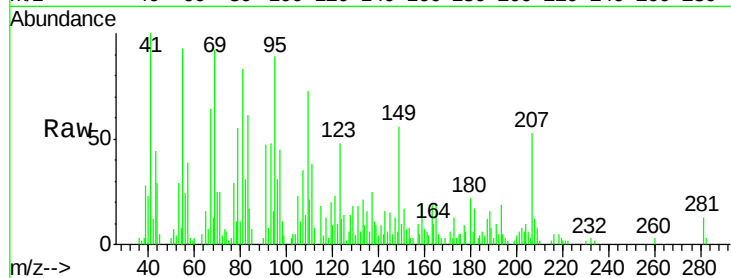




#93
 1,2,4-Trichlorobenzene
 Concen: 4.99 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049480.D
 Acq: 21 Jun 2018 20:28

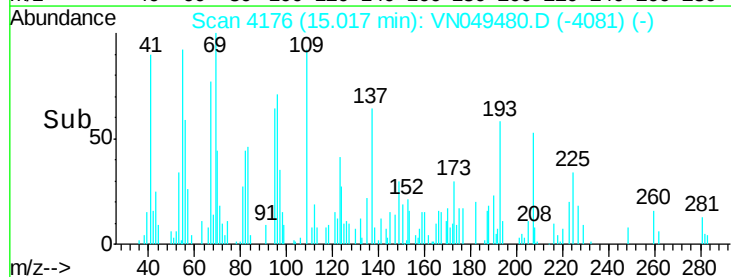
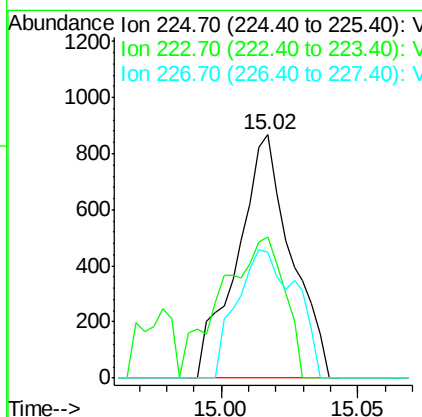
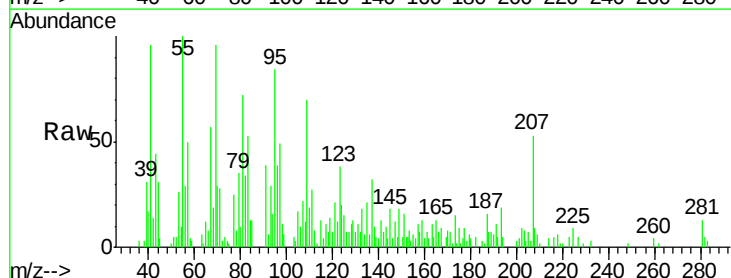
Instrument :
 MSVOA_N
 ClientSampled :

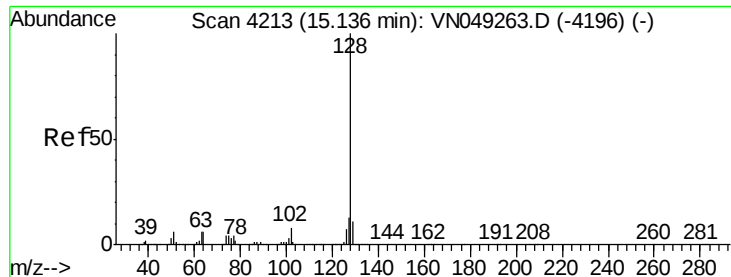
Tot Ion:180 Resp: 2908
 Ion Ratio Lower Upper
 180 100
 182 90.5 46.9 140.8
 145 26.3 14.7 44.1



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.02 min Scan# 4176
 Delta R.T. 0.00 min
 Lab File: VN049480.D
 Acq: 21 Jun 2018 20:28

Tgt Ion:225 Resp: 1190
 Ion Ratio Lower Upper
 225 100
 223 67.5 32.1 96.3
 227 57.6 31.8 95.3





#95

Naphthalene

Concen: 2.70 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Instrument :

MSVOA_N

ClientSampleId :

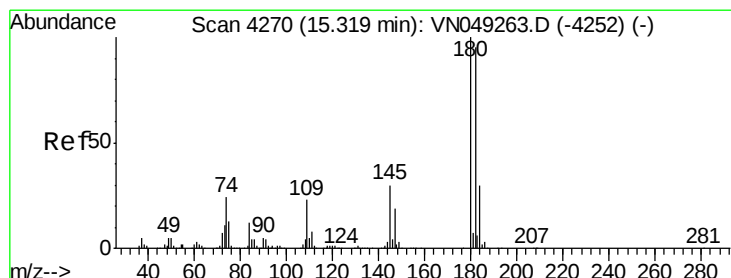
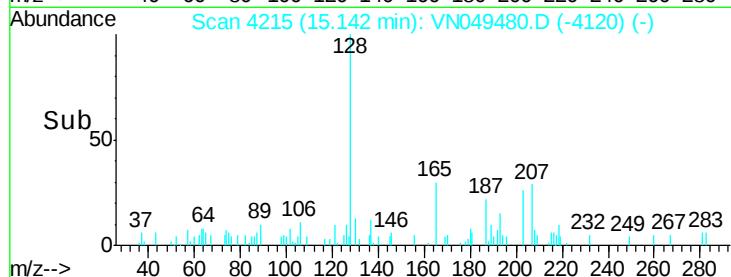
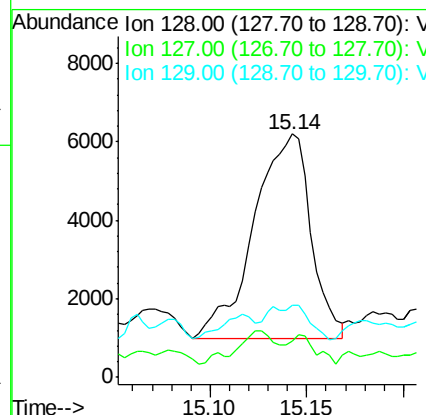
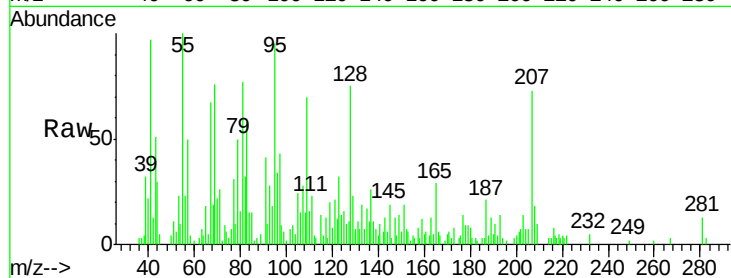
Tot Ion:128 Resp: 10628

Ion Ratio Lower Upper

128 100

127 5.9 10.6 16.0#

129 0.0 8.5 12.7#



#96

1,2,3-Trichlorobenzene

Concen: 3.58 ug/l

RT: 15.33 min Scan# 4273

Delta R.T. 0.01 min

Lab File: VN049480.D

Acq: 21 Jun 2018 20:28

Tgt Ion:180 Resp: 1414

Ion Ratio Lower Upper

180 100

182 213.9 47.3 141.8#

145 84.2 15.6 46.7#

