

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049380.D
 Acq On : 19 Jun 2018 7:58
 Operator : MD\SY
 Sample : J3432-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 08:48:35 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	7.67	168	1254146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1880291	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1527645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	412631	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	780591	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	
35) Dibromofluoromethane	7.59	113	699062	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	
50) Toluene-d8	10.09	98	2593592	44.78	ug/l	0.00
Spiked Amount			Recovery	=	89.56%	
62) 4-Bromofluorobenzene	12.40	95	640746	33.45	ug/l	0.00
Spiked Amount			Recovery	=	66.90%	

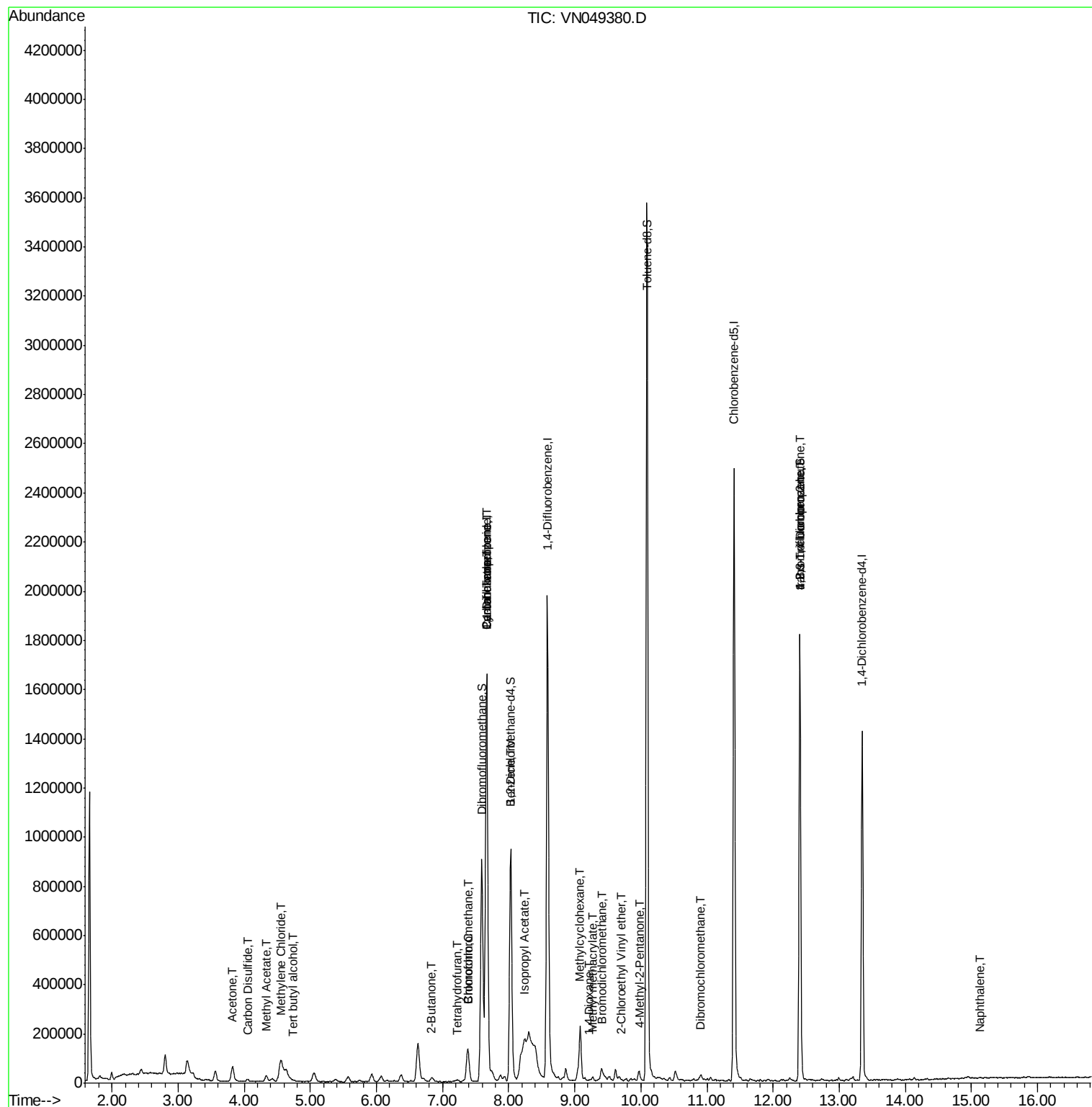
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	2353	2.41	ug/l #	70
16) Acetone	3.82	43	98938	24.50	ug/l	89
17) Carbon Disulfide	4.05	76	15146	0.34	ug/l #	94
18) Methyl Acetate	4.33	43	46988	3.82	ug/l	94
20) Methylene Chloride	4.55	84	54886	3.25	ug/l #	83
25) 2-Butanone	6.84	43	8435	1.56	ug/l #	88
28) Bromochloromethane	7.38	49	6567	0.51	ug/l #	18
29) Tetrahydrofuran	7.22	42	3749	1.07	ug/l #	54
30) Chloroform	7.37	83	93785	3.25	ug/l	99
31) Cyclohexane	7.66	56	165789	6.59	ug/l #	79
36) 1,1-Dichloropropene	7.67	75	85571	3.97	ug/l #	58
38) Carbon Tetrachloride	7.67	117	112247	5.03	ug/l #	17
39) Methylcyclohexane	9.08	83	92981	4.02	ug/l	94
40) Benzene	8.04	78	95515	1.45	ug/l	99
43) Isopropyl Acetate	8.25	43	180397	8.06	ug/l #	64
47) Bromodichloromethane	9.40	83	34583	1.57	ug/l	93
48) Methyl methacrylate	9.26	41	3237	0.31	ug/l #	45
49) 1,4-Dioxane	9.20	88	146	1.00	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4170	0.36	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.71	63	68	14.34	ug/l #	51
60) Dibromochloromethane	10.90	129	10962	0.68	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	119	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	313350	44.51	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	313350	140.66	ug/l #	9
90) Hexachloroethane	13.91	117	76	Below Cal	#	9
95) Naphthalene	15.14	128	979	2.16	ug/l #	77

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

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Quant Time: Jun 19 08:48:35 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

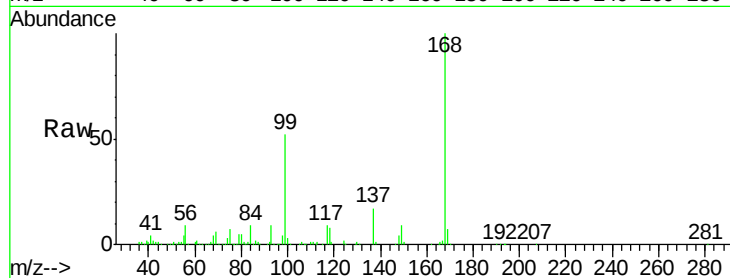
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1254146

Ion Ratio Lower Upper

168 100

99 52.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

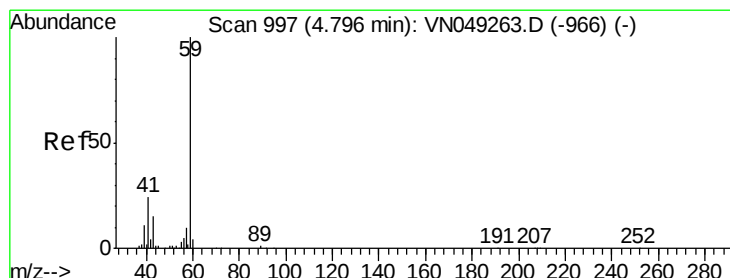
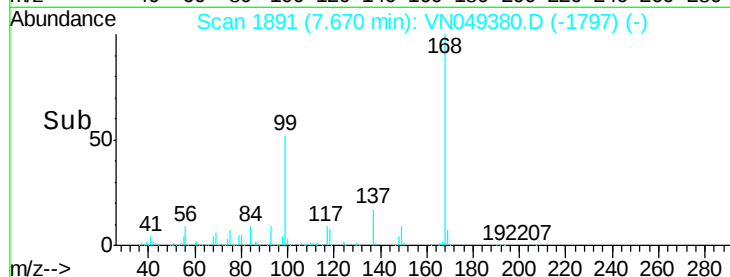
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 2.41 ug/l

RT: 4.75 min Scan# 983

Delta R.T. -0.04 min

Lab File: VN049380.D

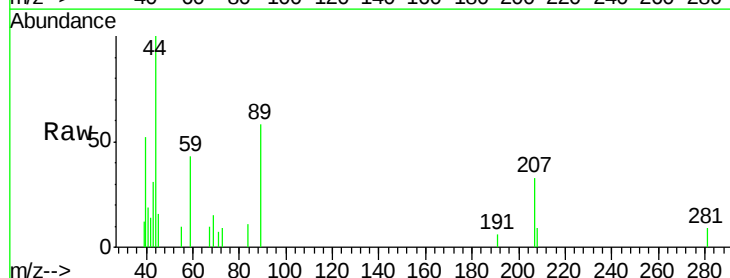
Acq: 19 Jun 2018 7:58

Tgt Ion: 59 Resp: 2353

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

1200

1000

800

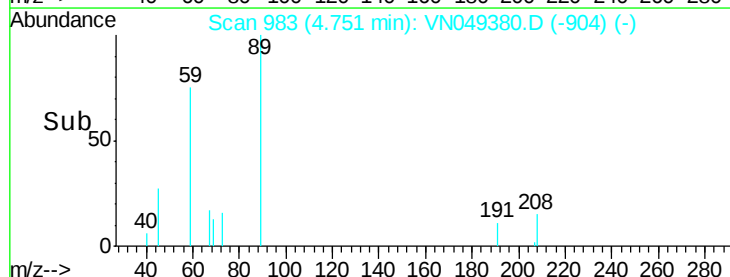
600

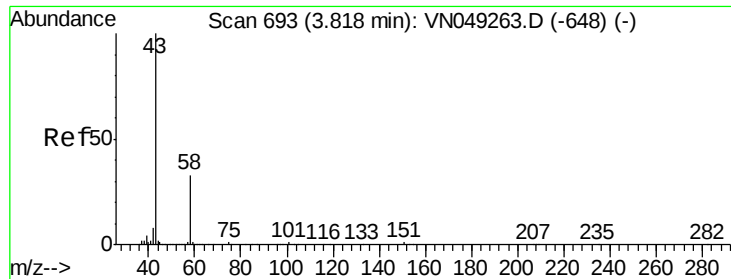
400

200

0

Time--> 4.70 4.75





#16

Acetone

Concen: 24.50 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

Instrument :

MSVOA_N

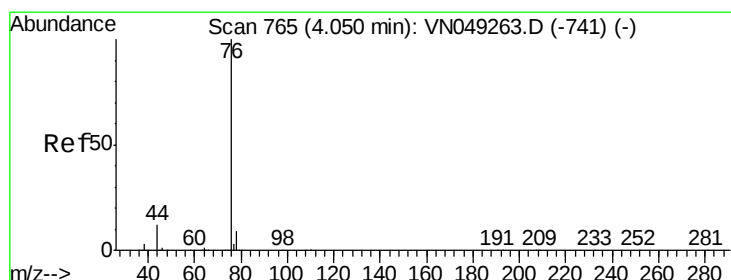
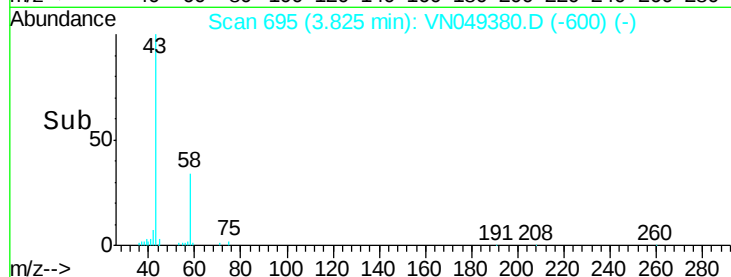
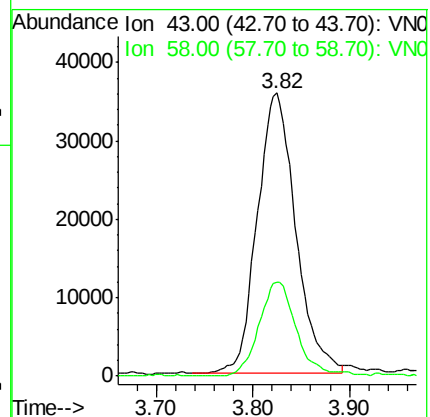
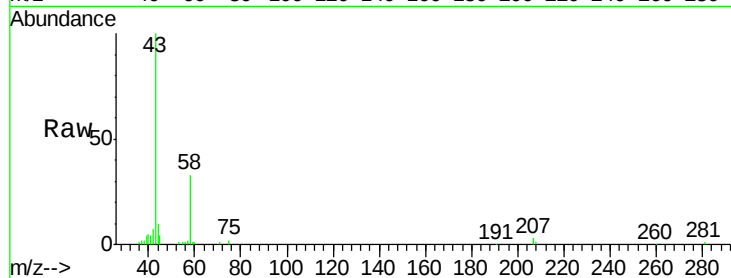
ClientSampled :

Tot Ion: 43 Resp: 98938

Ion Ratio Lower Upper

43 100

58 33.5 22.4 33.6



#17

Carbon Disulfide

Concen: 0.34 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN049380.D

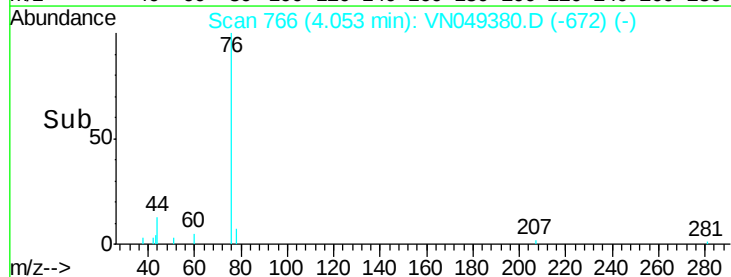
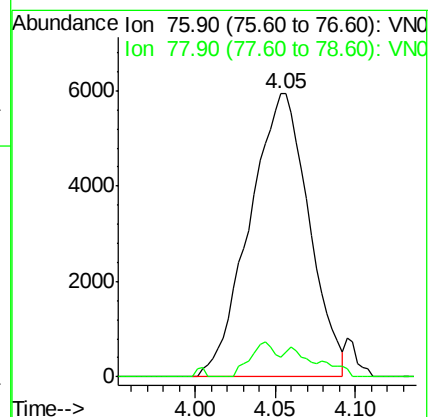
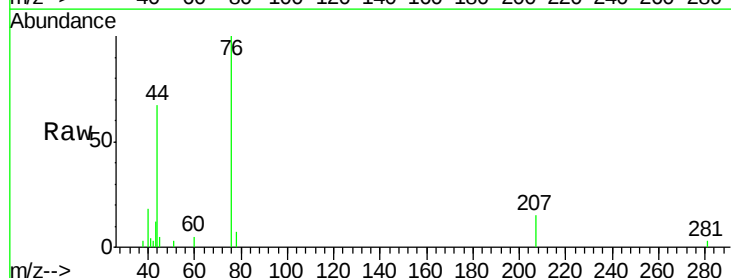
Acq: 19 Jun 2018 7:58

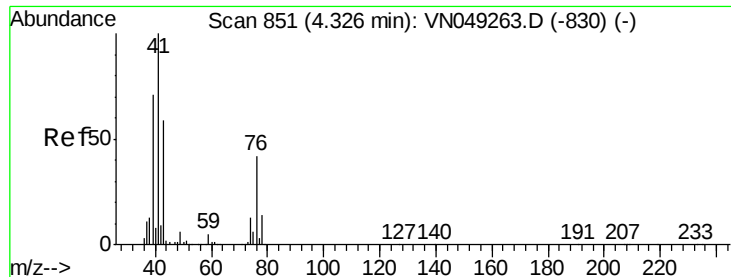
Tgt Ion: 76 Resp: 15146

Ion Ratio Lower Upper

76 100

78 6.9 7.4 11.0#

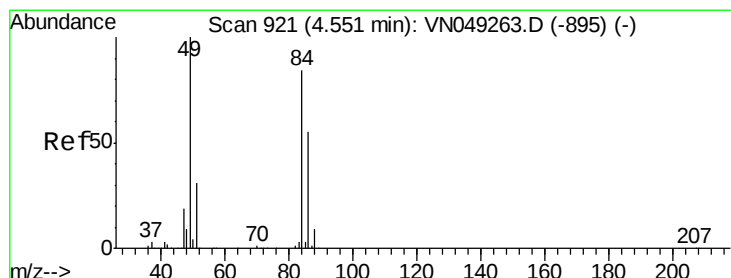
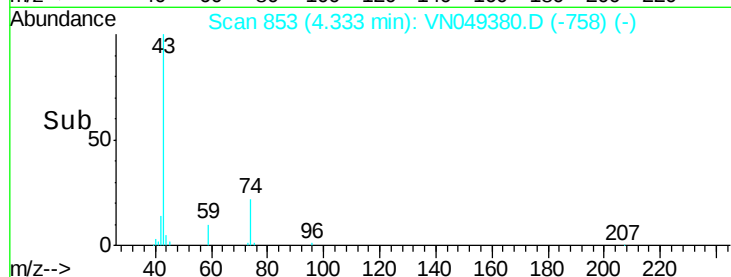
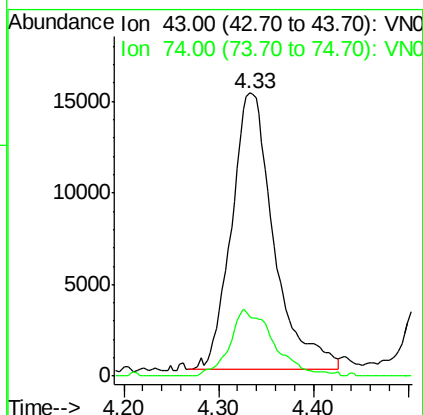
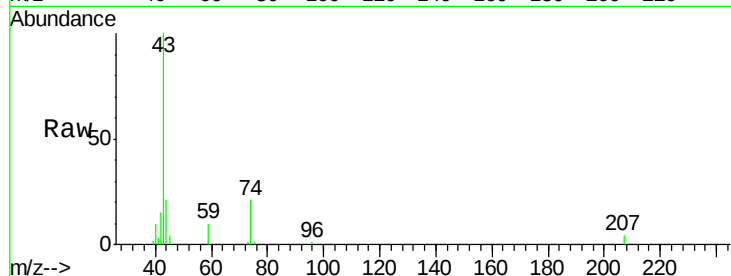




#18
Methvl Acetate
Concen: 3.82 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

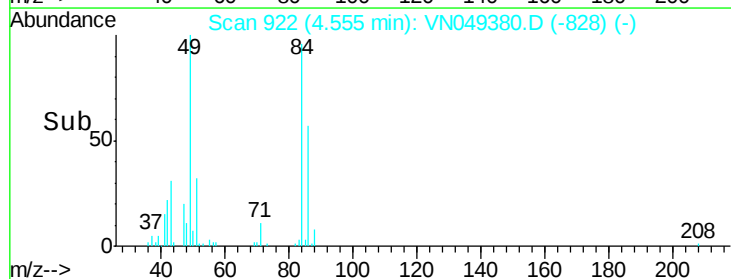
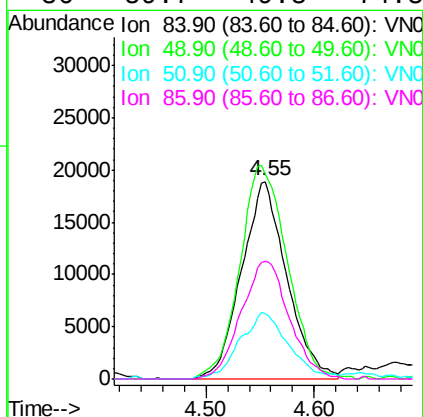
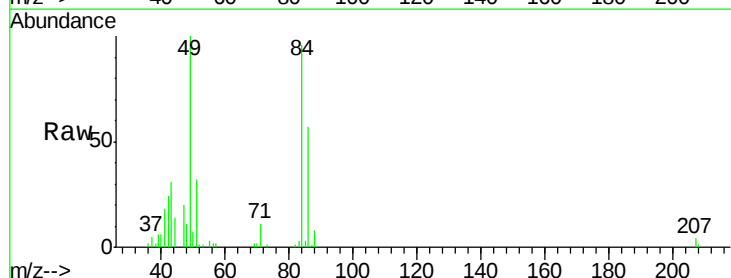
Instrument :
MSVOA_N
ClientSampleId :

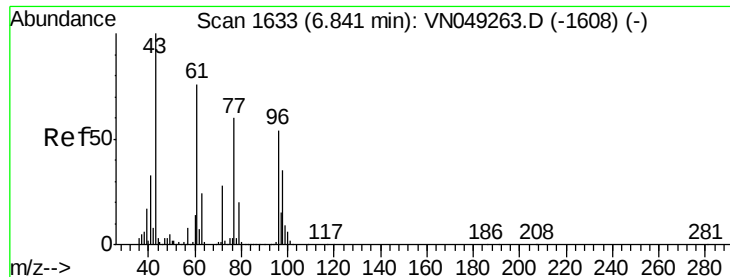
Tot Ion: 43 Resp: 46988
Ion Ratio Lower Upper
43 100
74 24.8 17.4 26.0



#20
Methylene Chloride
Concen: 3.25 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

Tgt Ion: 84 Resp: 54886
Ion Ratio Lower Upper
84 100
49 104.0 106.9 160.3#
51 33.2 32.7 49.1
86 59.7 49.8 74.8





#25

2-Butanone

Concen: 1.56 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

Instrument :

MSVOA_N

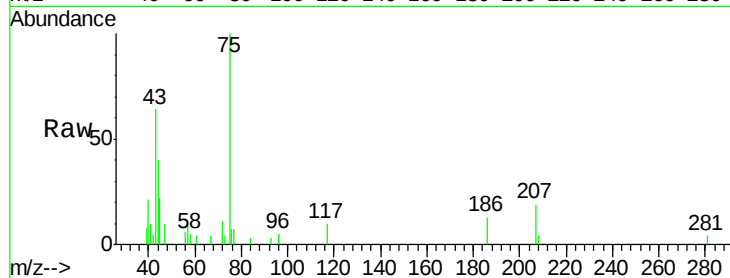
ClientSampled :

Tot Ion: 43 Resp: 8435

Ion Ratio Lower Upper

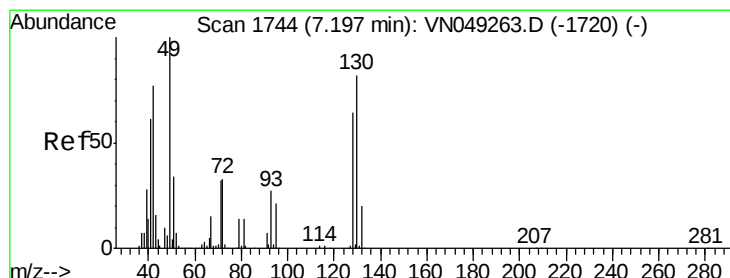
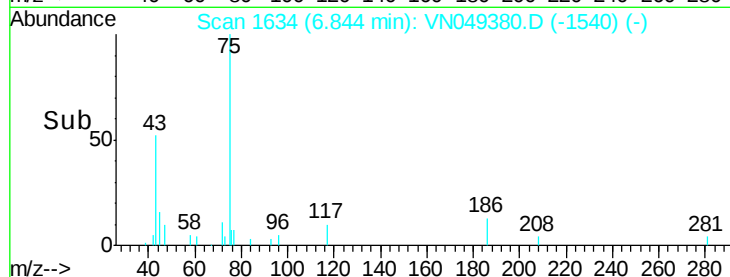
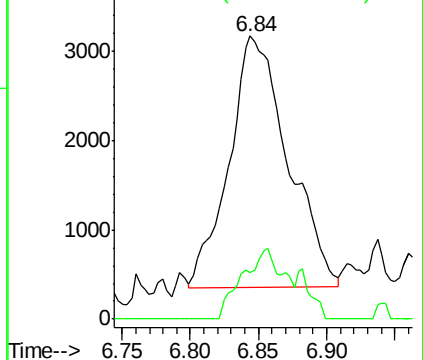
43 100

72 19.1 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#28

Bromochloromethane

Concen: 0.51 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.18 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

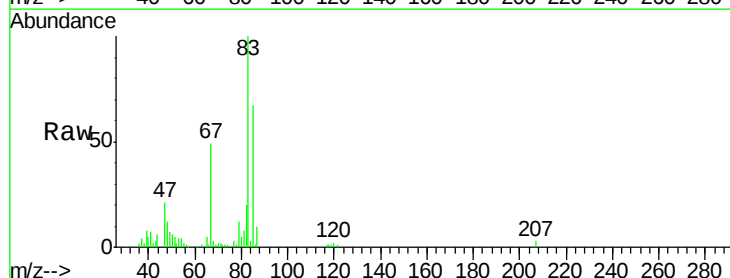
Tgt Ion: 49 Resp: 6567

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

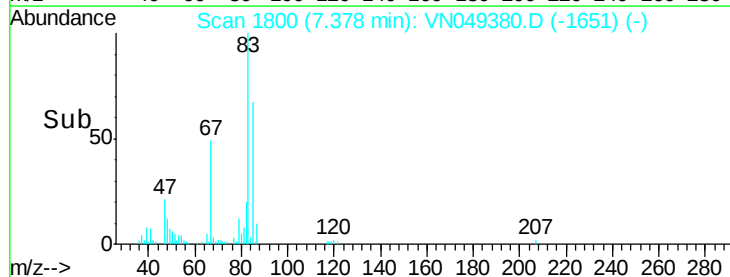
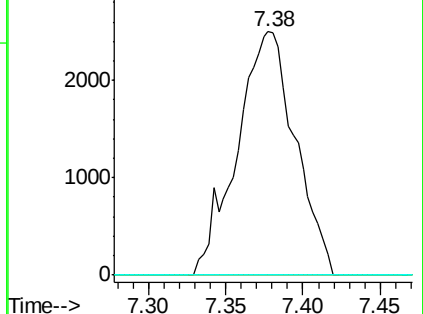
130 0.0 54.9 82.3#

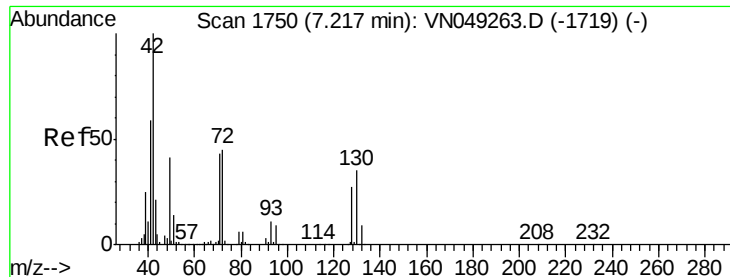


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

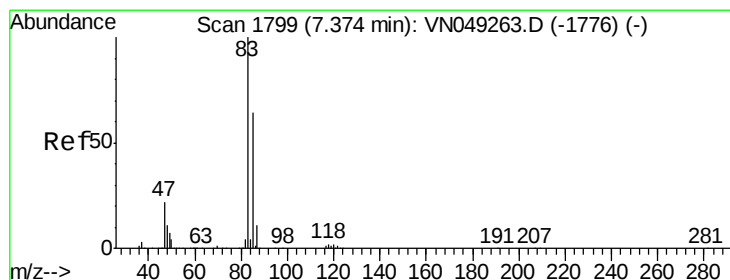
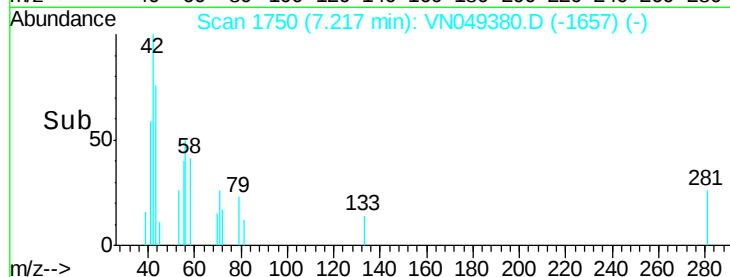
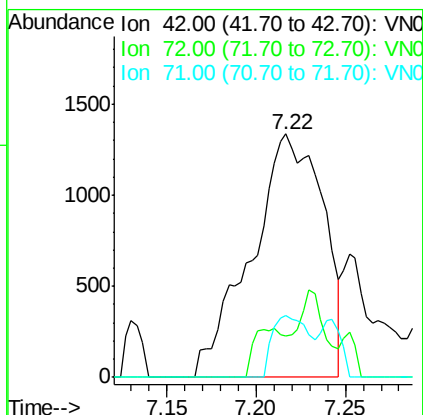
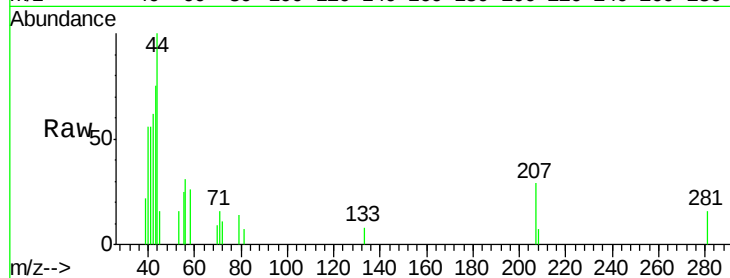




#29
Tetrahydrofuran
Concen: 1.07 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

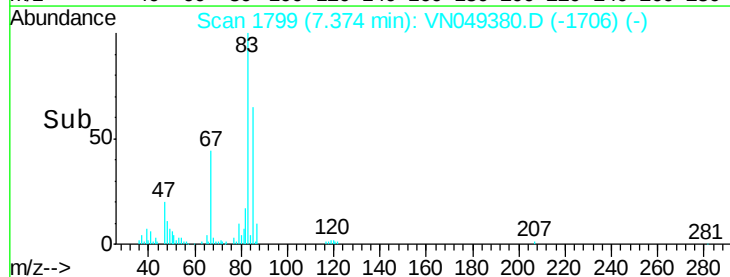
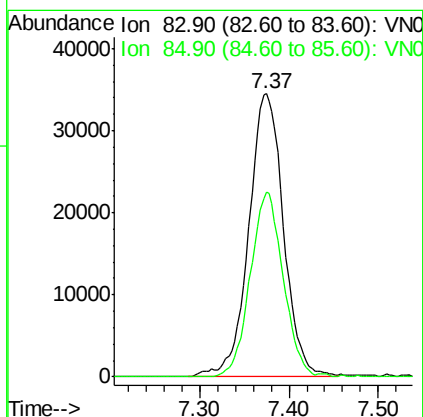
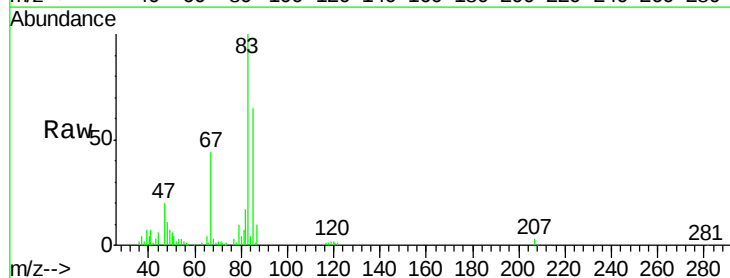
Instrument :
MSVOA_N
ClientSampleId :

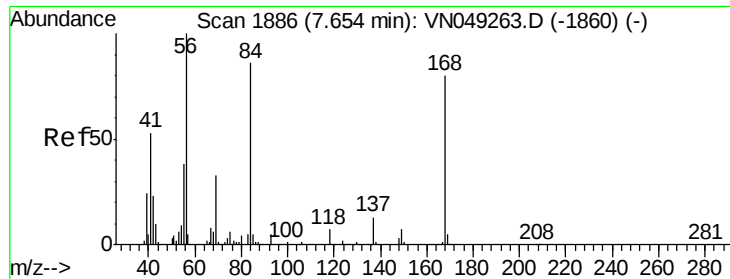
Tot Ion: 42 Resp: 3749
Ion Ratio Lower Upper
42 100
72 8.7 32.2 48.4#
71 12.8 30.5 45.7#



#30
Chloroform
Concen: 3.25 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

Tgt Ion: 83 Resp: 93785
Ion Ratio Lower Upper
83 100
85 65.3 51.7 77.5

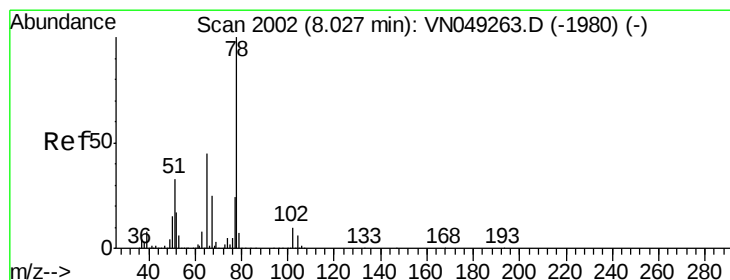
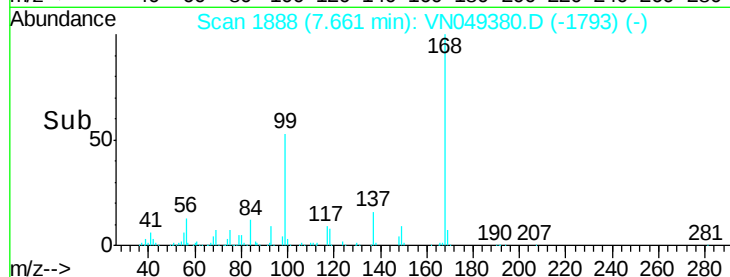
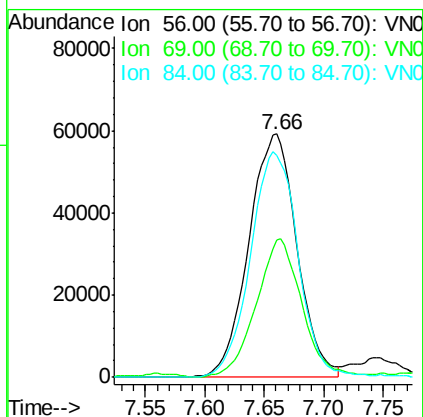
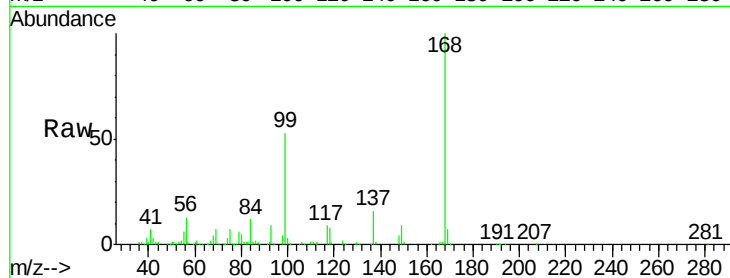




#31
Cyclohexane
Concen: 6.59 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

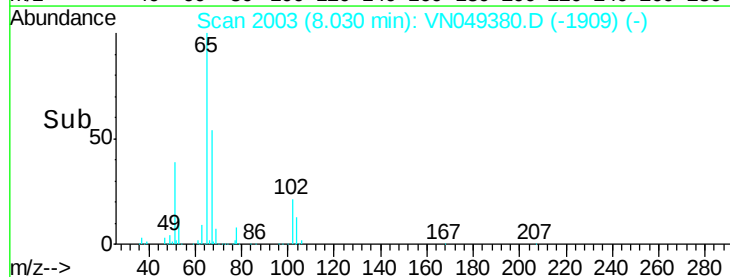
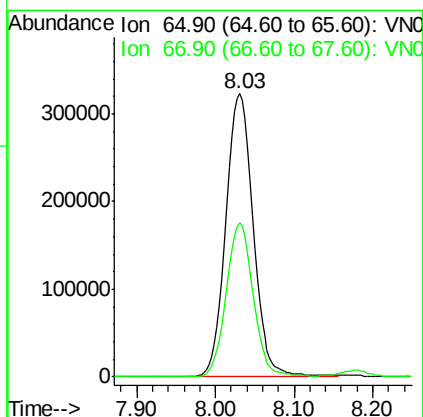
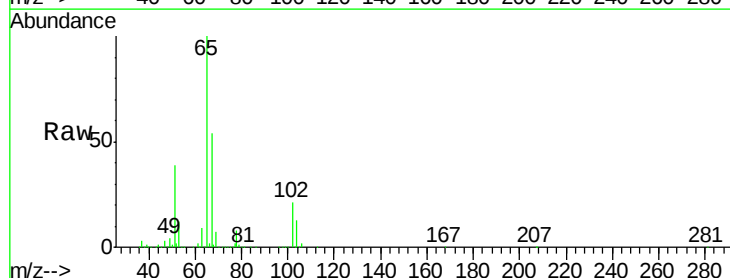
Instrument :
MSVOA_N
ClientSampleId :

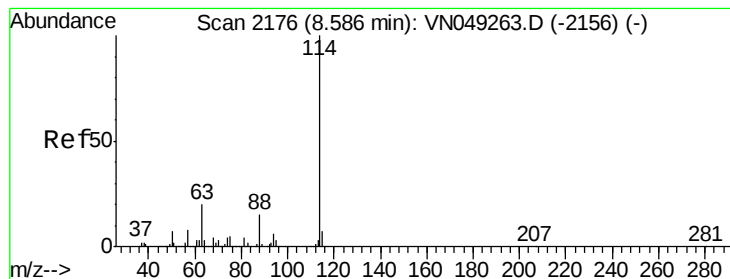
Tot Ion	56	Resp	165789
Ion	Ratio	Lower	Upper
56	100		
69	55.9	25.0	37.4#
84	91.4	64.6	96.8



#33
1,2-Dichloroethane-d4
Concen: 46.93 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

Tgt Ion	65	Resp	780591
Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

Instrument :

MSVOA_N

ClientSampled :

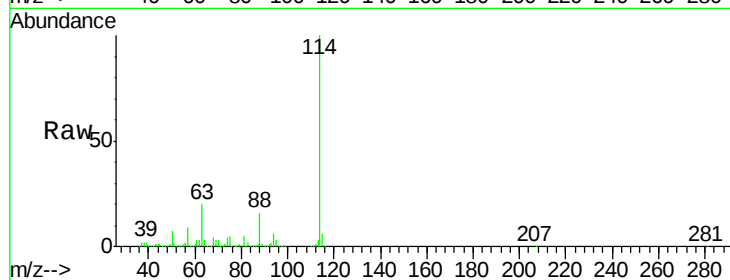
Tot Ion:114 Resp: 1880291

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

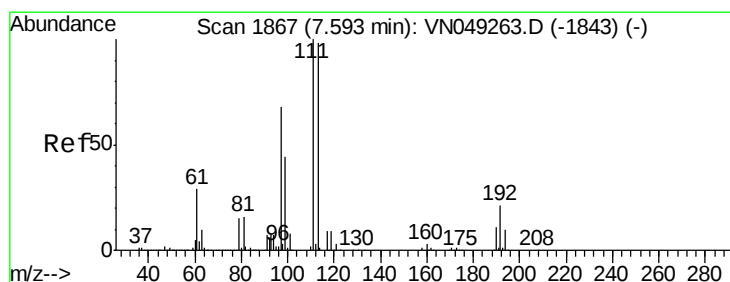
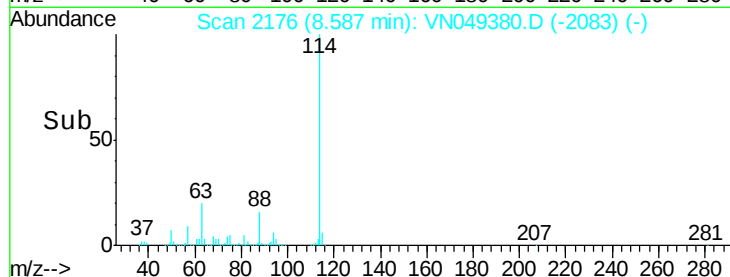
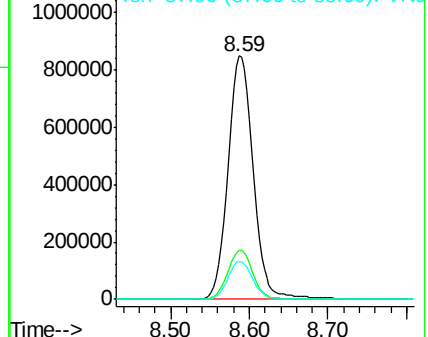
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 45.95 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

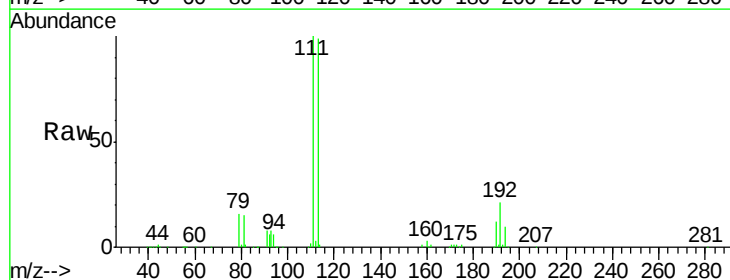
Tgt Ion:113 Resp: 699062

Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

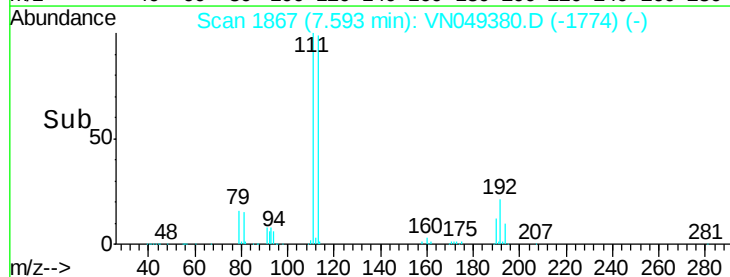
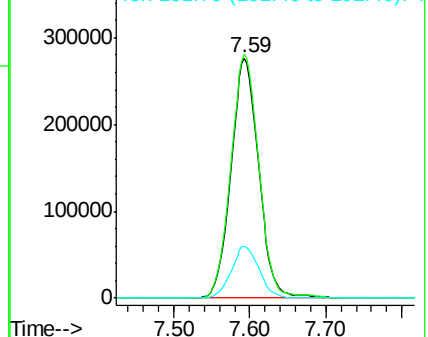
192 21.6 15.0 22.6

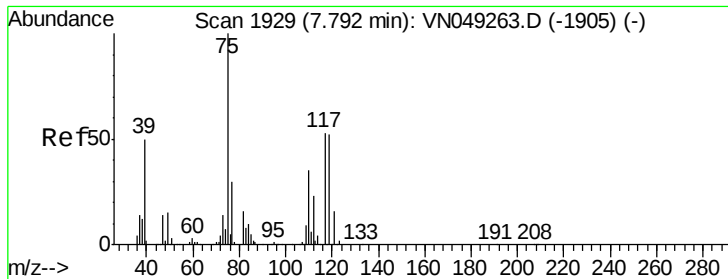


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.97 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

Instrument :
MSVOA_N
ClientSampleId :

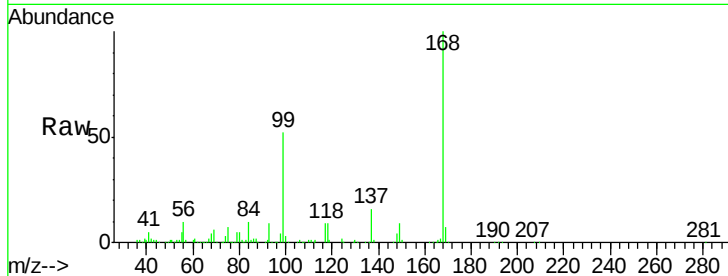
Tot Ion: 75 Resp: 85571

Ion Ratio Lower Upper

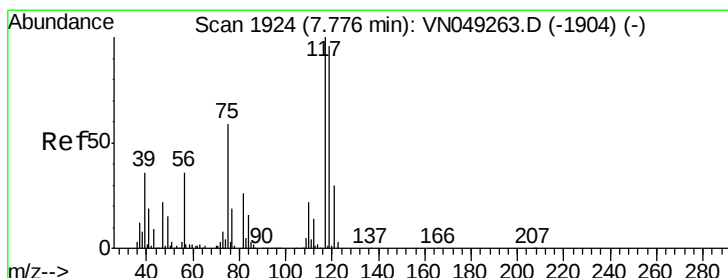
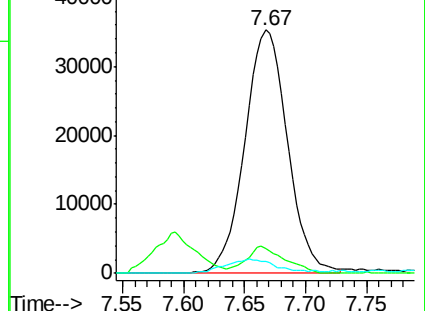
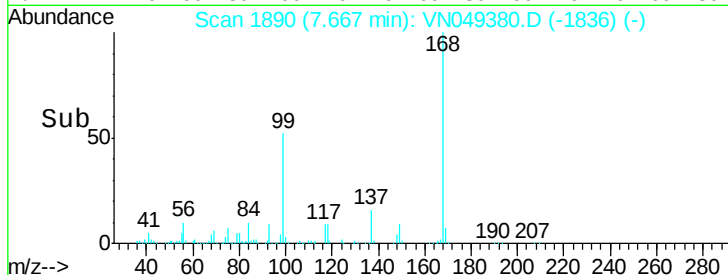
75 100

110 9.9 17.0 50.9#

77 7.3 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VN049380.D (-1836) (-)



#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

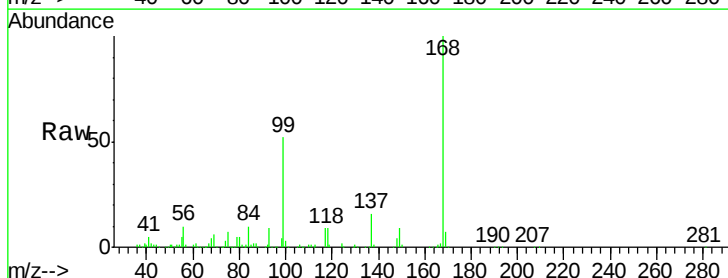
Tgt Ion: 117 Resp: 112247

Ion Ratio Lower Upper

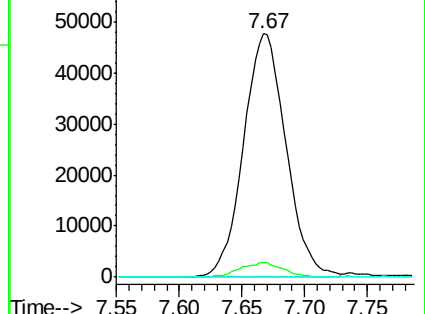
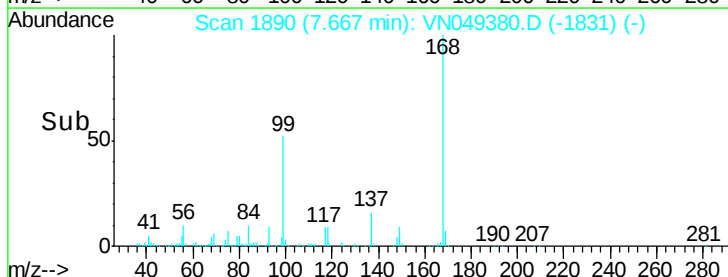
117 100

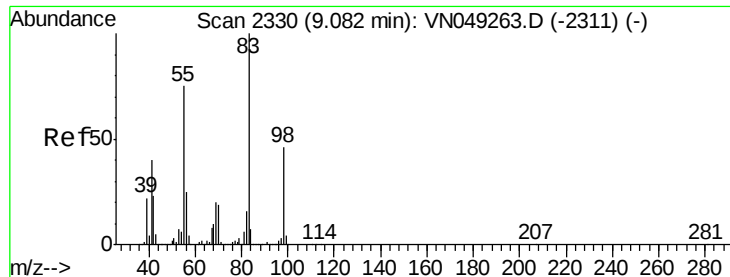
119 6.2 75.6 113.4#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN049380.D (-1831) (-)

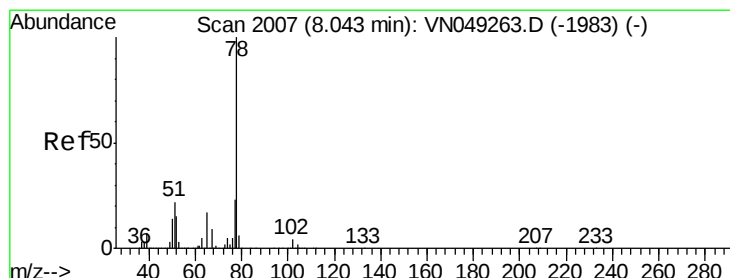
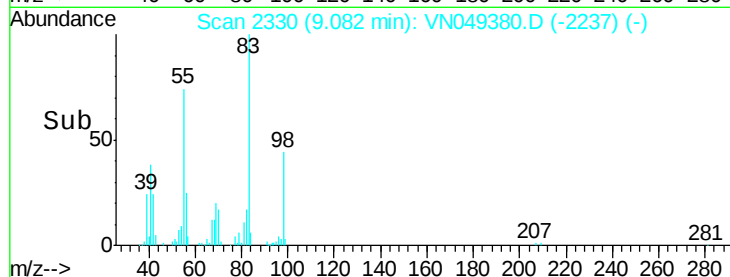
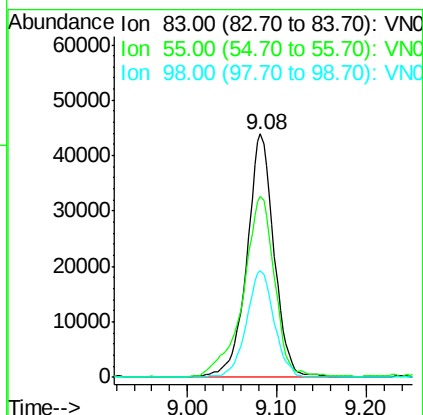
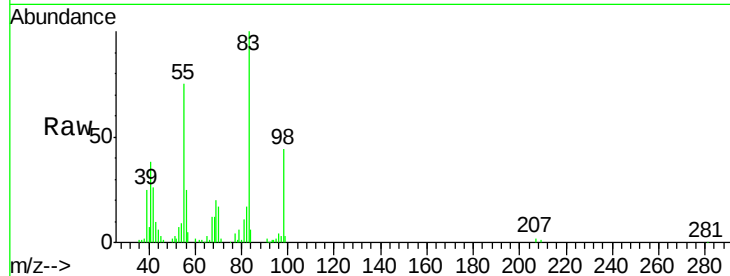




#39
Methvlcvclohexane
Concen: 4.02 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

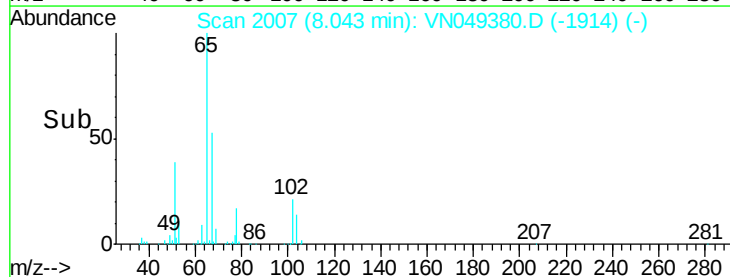
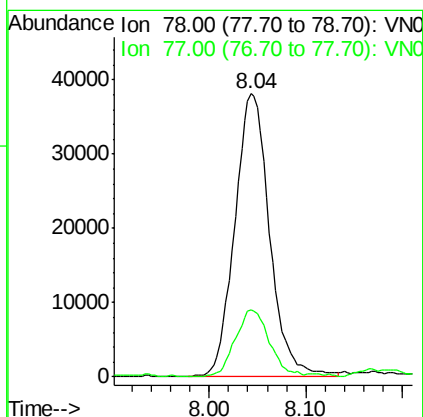
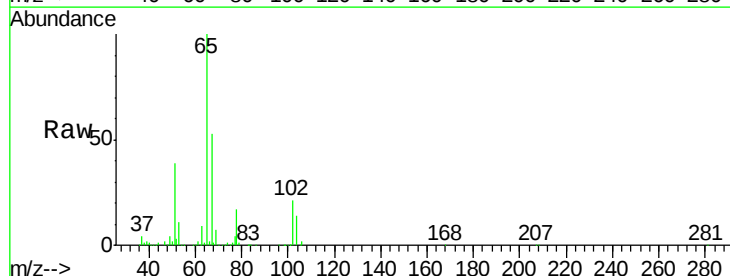
Instrument :
MSVOA_N
ClientSampled :

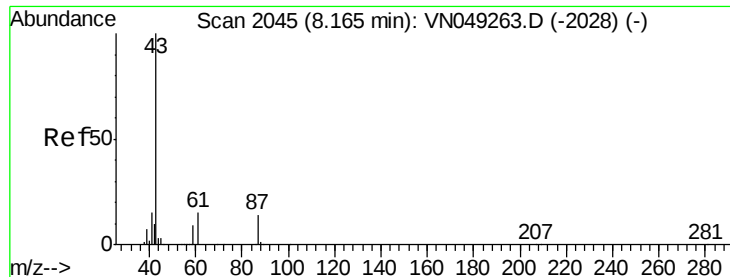
Tot Ion: 83 Resp: 92981
Ion Ratio Lower Upper
83 100
55 74.5 65.1 97.7
98 43.6 36.5 54.7



#40
Benzene
Concen: 1.45 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

Tgt Ion: 78 Resp: 95515
Ion Ratio Lower Upper
78 100
77 23.8 19.4 29.0





#43

Isopropyl Acetate

Concen: 8.06 ug/l

RT: 8.25 min Scan# 2070

Delta R.T. 0.08 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

Instrument :

MSVOA_N

ClientSampleId :

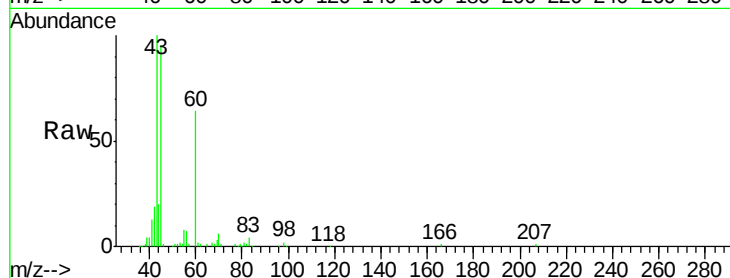
Tot Ion: 43 Resp: 180397

Ion Ratio Lower Upper

43 100

61 0.5 14.2 21.4#

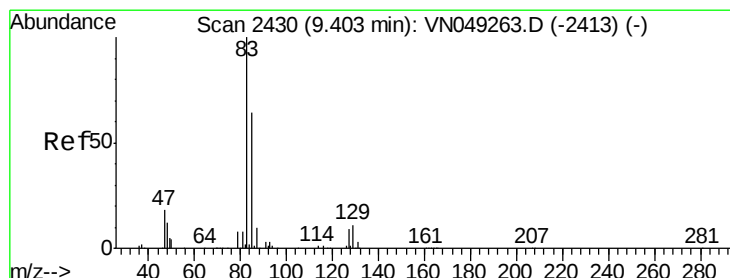
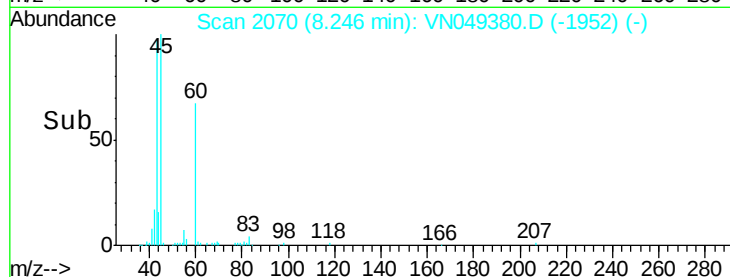
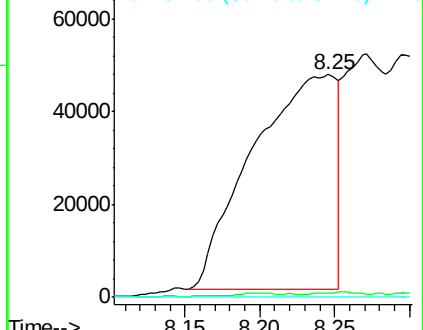
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049380.D (-2337) (-)

Ion 61.00 (60.70 to 61.70): VN049380.D (-2337) (-)

Ion 87.00 (86.70 to 87.70): VN049380.D (-2337) (-)



#47

Bromodichloromethane

Concen: 1.57 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

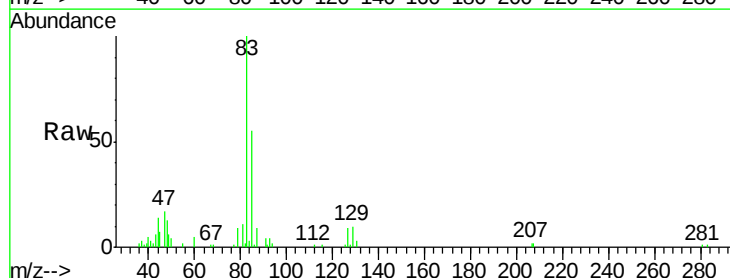
Tgt Ion: 83 Resp: 34583

Ion Ratio Lower Upper

83 100

85 56.1 49.4 74.0

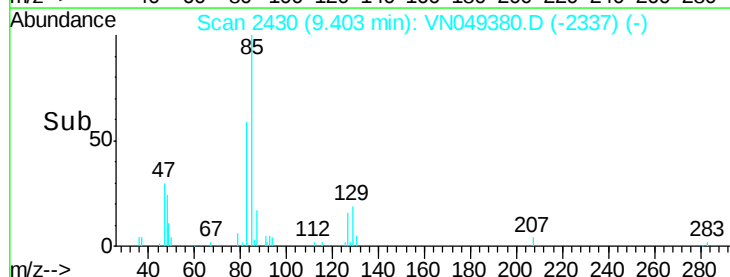
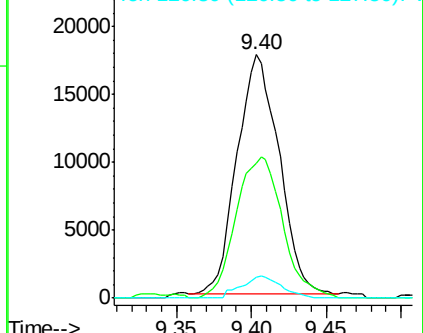
127 8.7 6.3 9.5

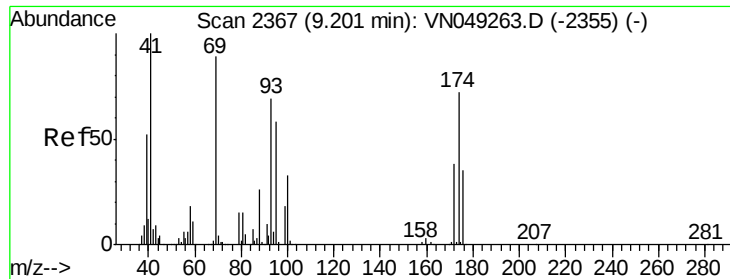


Abundance Ion 82.90 (82.60 to 83.60): VN049380.D (-2337) (-)

Ion 84.90 (84.60 to 85.60): VN049380.D (-2337) (-)

Ion 126.80 (126.50 to 127.50): VN049380.D (-2337) (-)

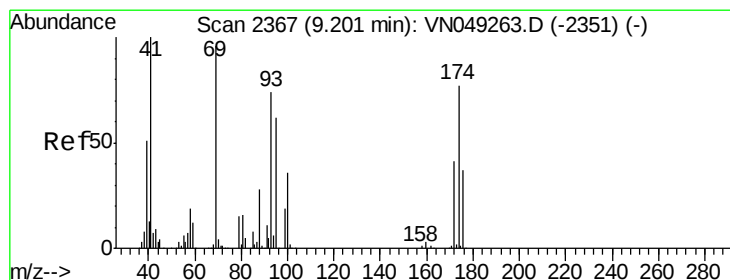
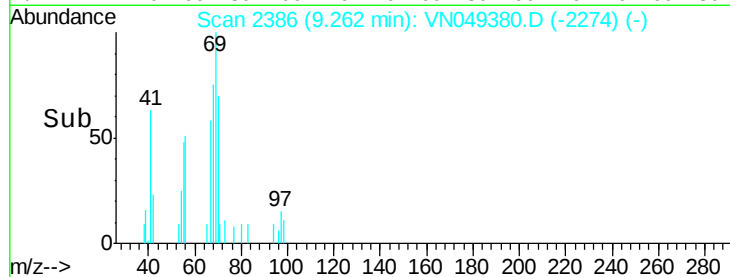
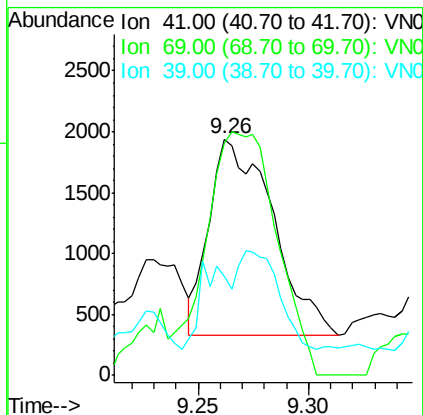
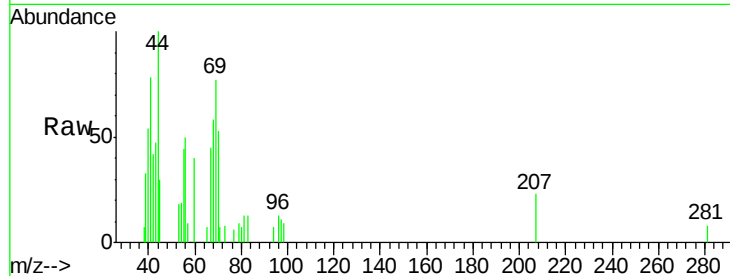




#48
Methyl methacrylate
Concen: 0.31 ug/l
RT: 9.26 min Scan# 2386
Delta R.T. 0.06 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

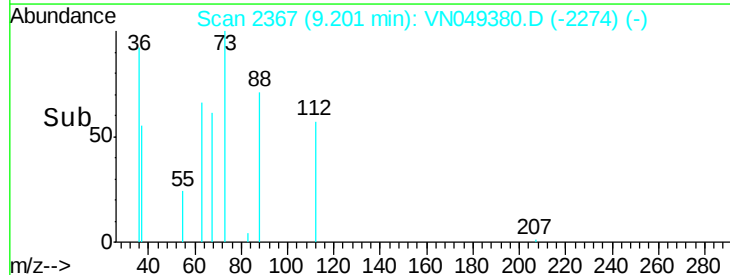
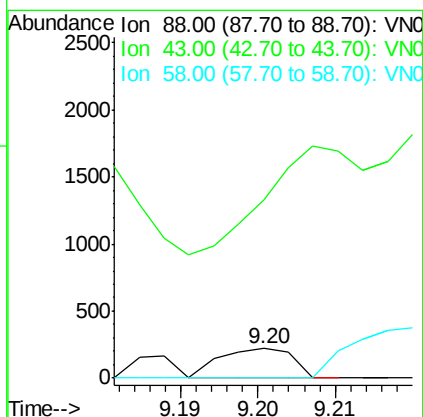
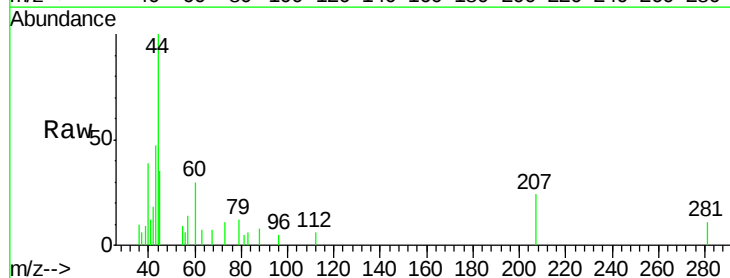
Instrument :
MSVOA_N
ClientSampled :

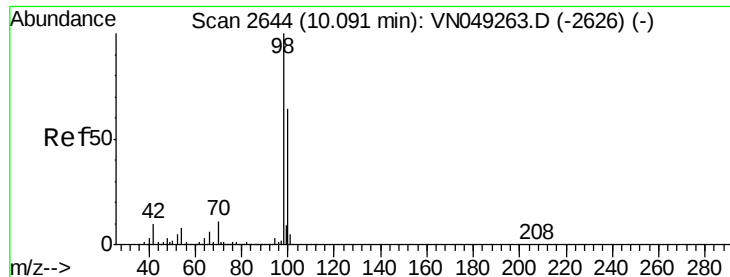
Tot Ion: 41 Resp: 3237
Ion Ratio Lower Upper
41 100
69 136.1 62.0 93.0#
39 31.8 50.6 75.8#



#49
1,4-Dioxane
Concen: 1.00 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

Tgt Ion: 88 Resp: 146
Ion Ratio Lower Upper
88 100
43 469.2 30.9 46.3#
58 0.0 58.9 88.3#





#50

Toluene-d8

Concen: 44.78 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

Instrument :

MSVOA_N

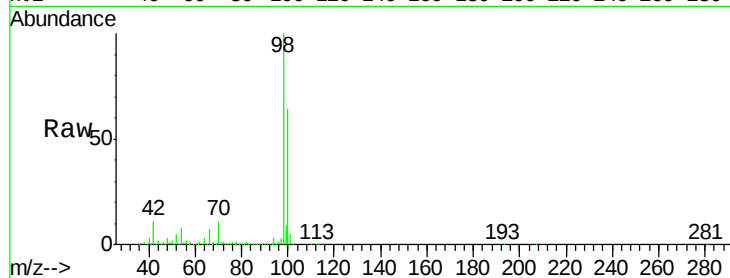
ClientSampled :

Tot Ion: 98 Resp: 2593592

Ion Ratio Lower Upper

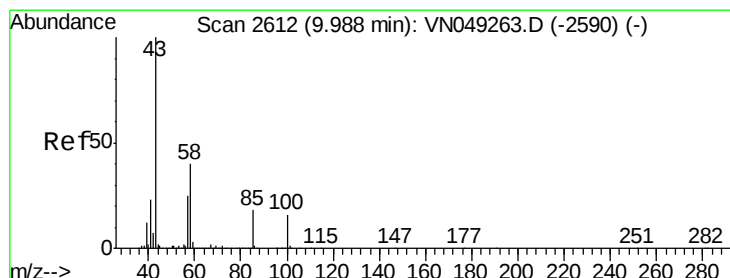
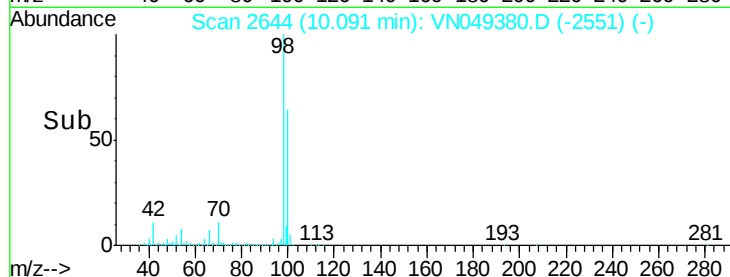
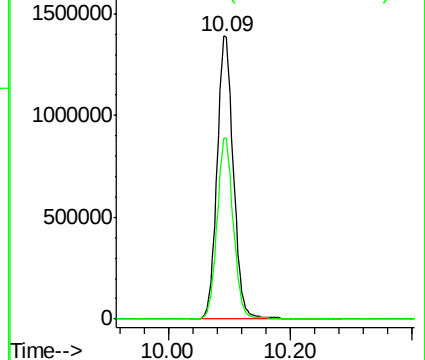
98 100

100 63.7 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.36 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049380.D

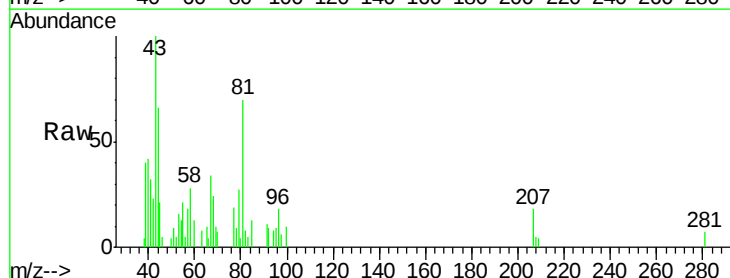
Acq: 19 Jun 2018 7:58

Tgt Ion: 43 Resp: 4170

Ion Ratio Lower Upper

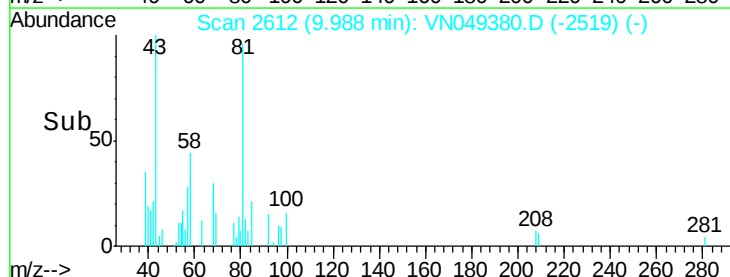
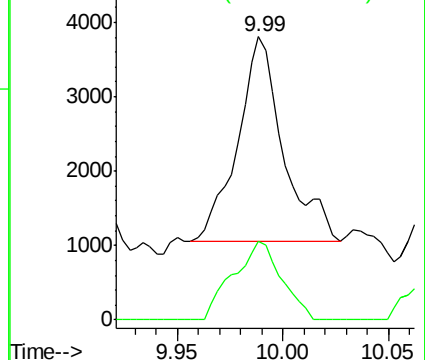
43 100

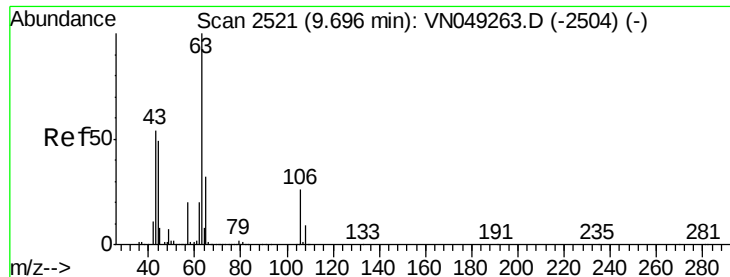
58 40.2 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

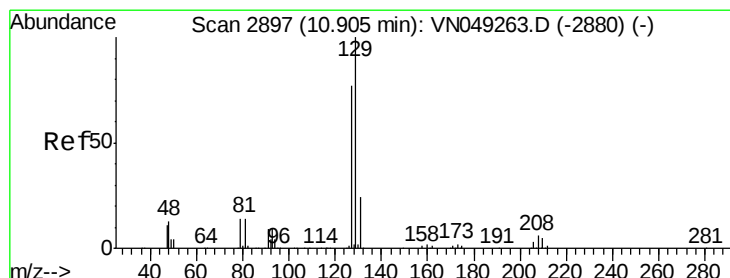
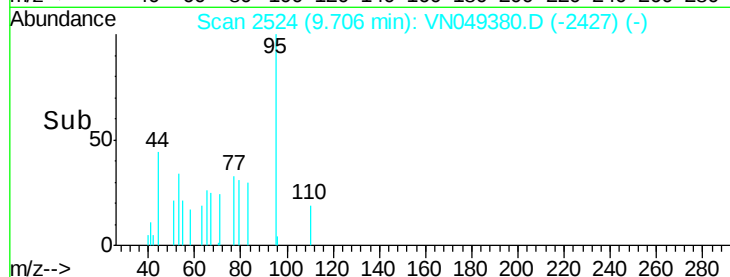
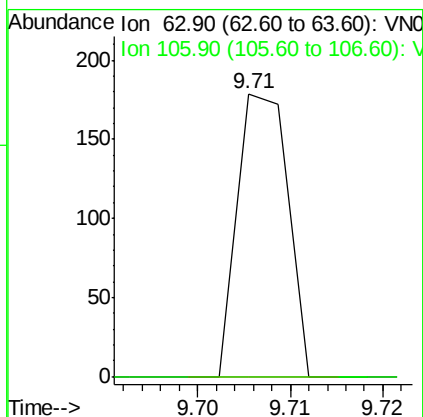
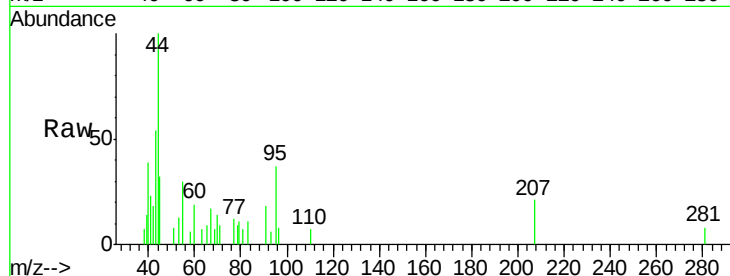




#58
2-Chloroethyl Vinyl ether
Concen: 14.34 ug/l
RT: 9.71 min Scan# 2524
Delta R.T. 0.01 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

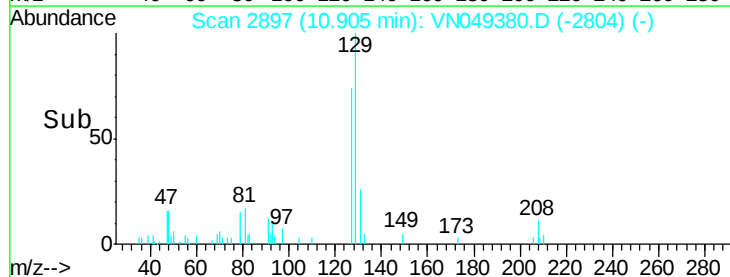
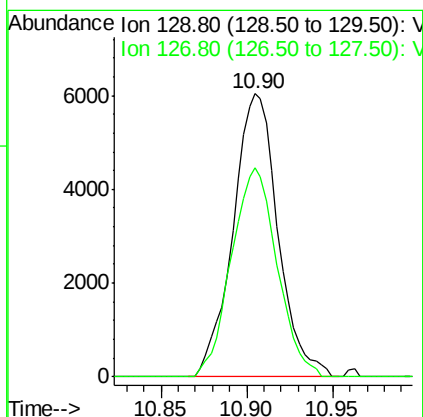
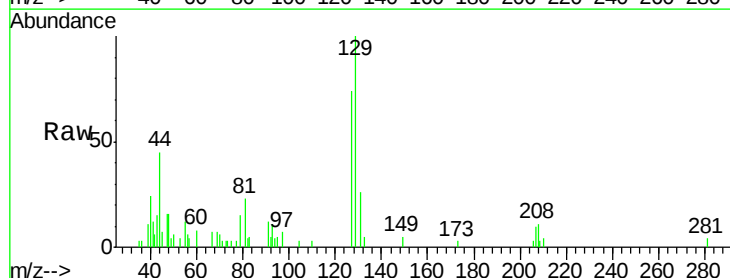
Instrument :
MSVOA_N
ClientSampled :

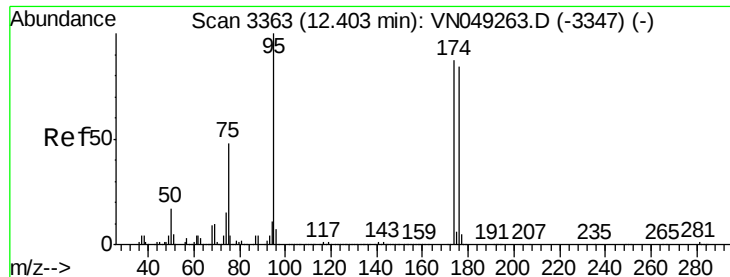
Tot Ion: 63 Resp: 68
Ion Ratio Lower Upper
63 100
106 0.0 19.4 29.2#



#60
Dibromochloromethane
Concen: 0.68 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

Tgt Ion: 129 Resp: 10962
Ion Ratio Lower Upper
129 100
127 75.1 39.1 117.2

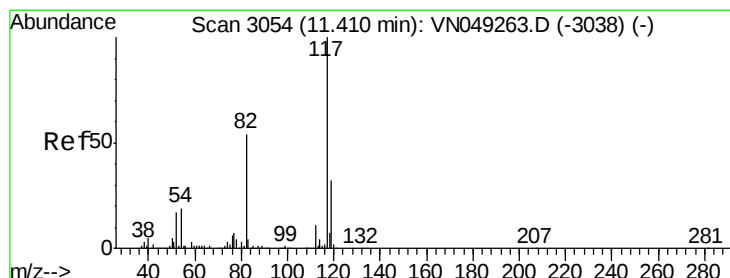
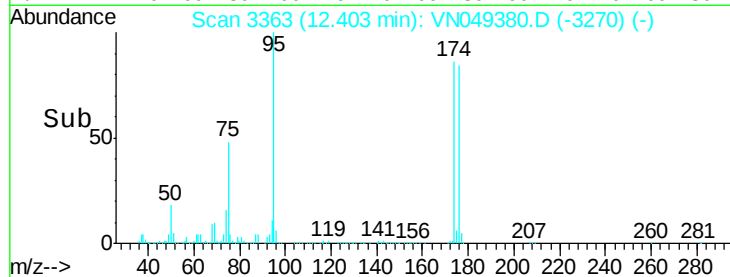
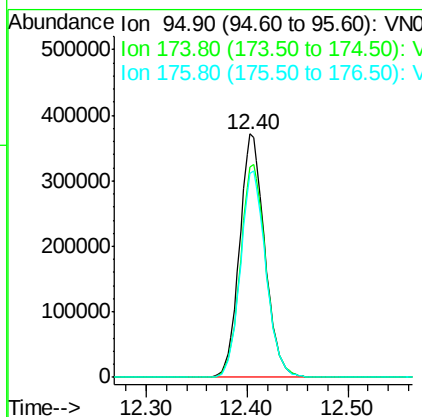
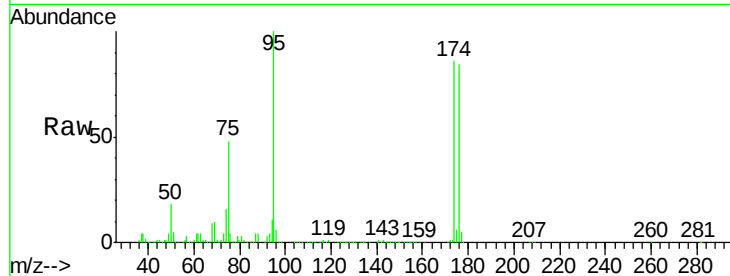




#62
4-Bromofluorobenzene
Concen: 33.45 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

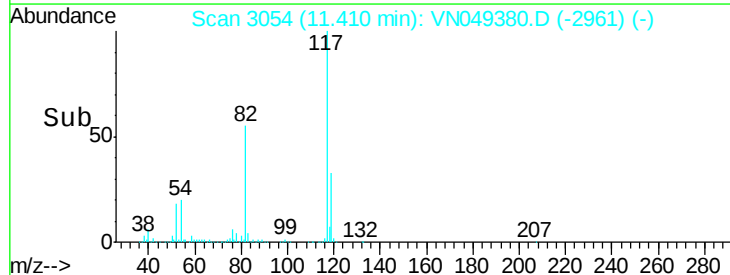
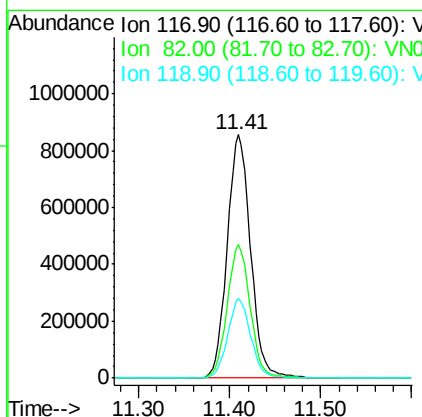
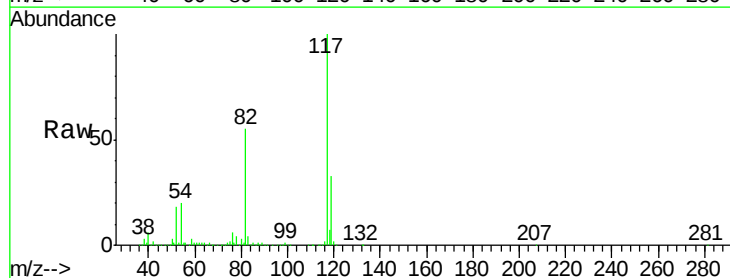
Instrument :
MSVOA_N
ClientSampleId :

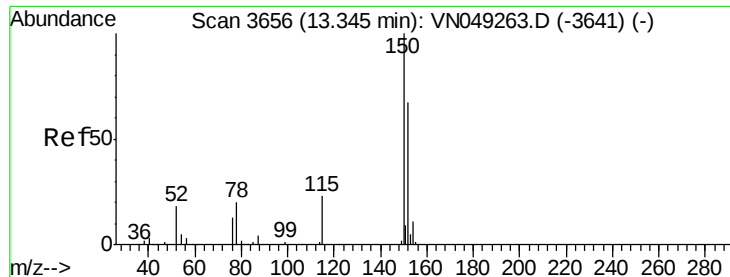
Tot Ion: 95 Resp: 640746
Ion Ratio Lower Upper
95 100
174 88.3 0.0 165.6
176 85.1 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049380.D
Acq: 19 Jun 2018 7:58

Tgt Ion: 117 Resp: 1527645
Ion Ratio Lower Upper
117 100
82 54.8 45.9 68.9
119 32.5 25.5 38.3

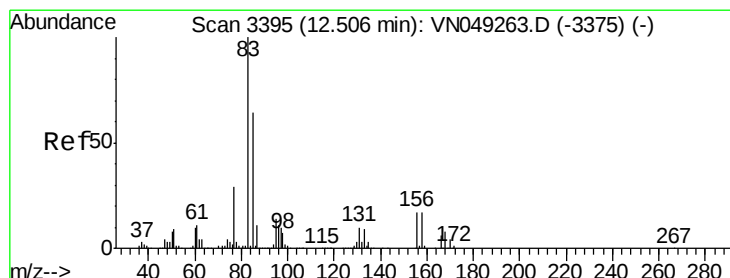
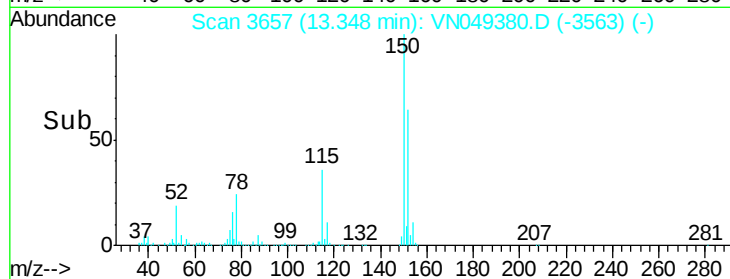
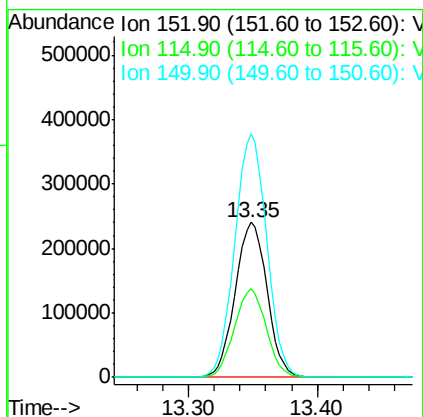
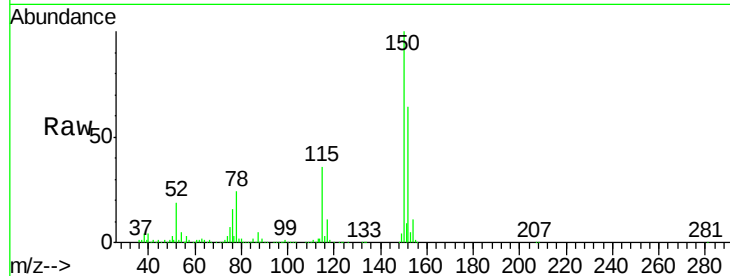




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3657
 Delta R.T. 0.00 min
 Lab File: VN049380.D
 Acq: 19 Jun 2018 7:58

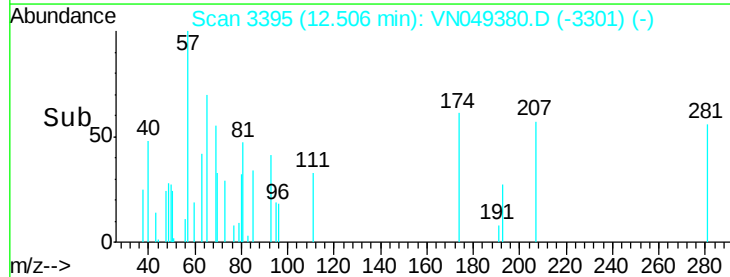
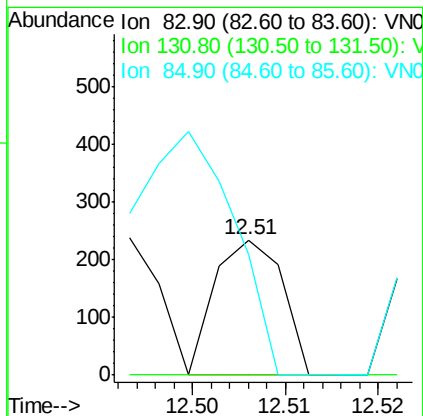
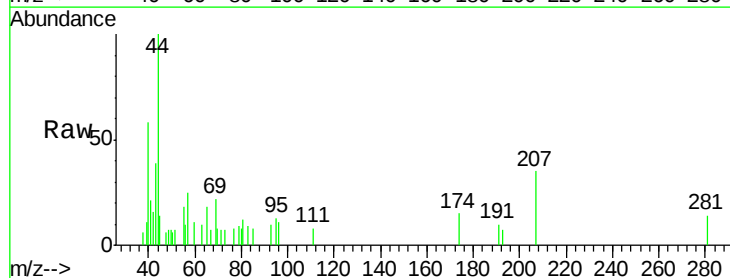
Instrument :
 MSVOA_N
 ClientSampled :

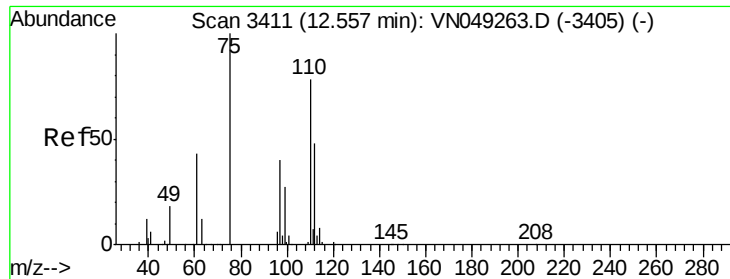
Tot Ion:152 Resp: 412631
 Ion Ratio Lower Upper
 152 100
 115 57.3 28.7 86.1
 150 157.9 0.0 351.0



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.51 min Scan# 3395
 Delta R.T. 0.00 min
 Lab File: VN049380.D
 Acq: 19 Jun 2018 7:58

Tgt Ion: 83 Resp: 119
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 360.5 32.0 96.0#

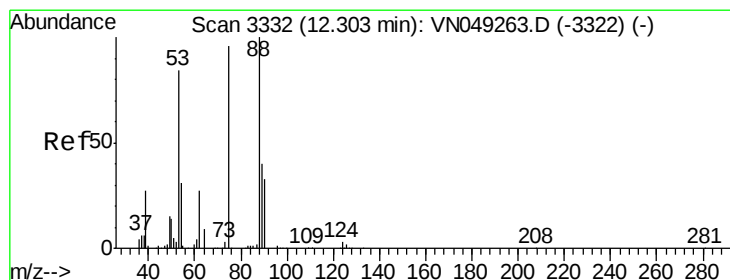
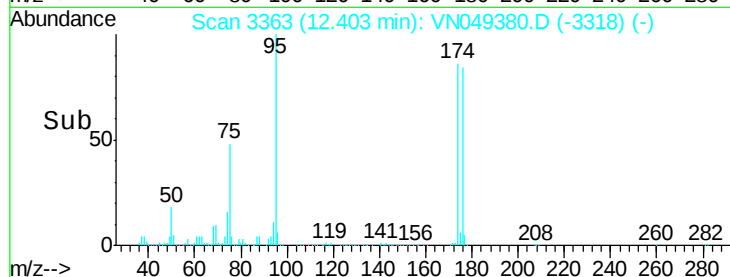
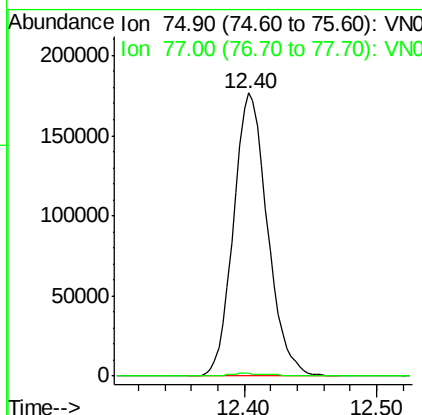
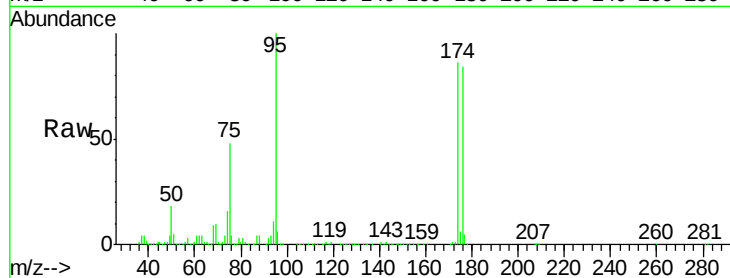




#76
 1,2,3-Trichloropropane
 Concen: 44.51 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049380.D
 Acq: 19 Jun 2018 7:58

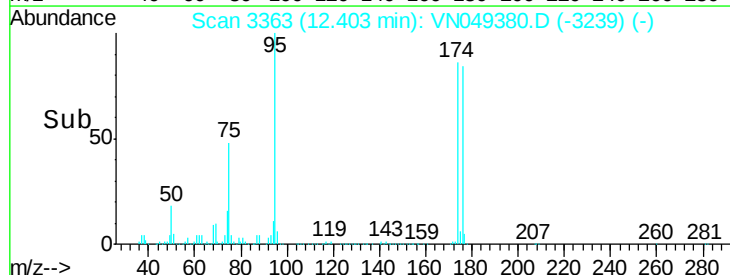
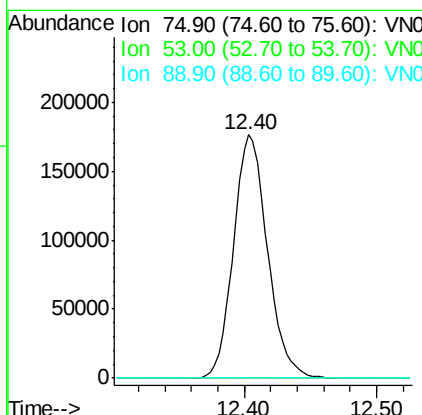
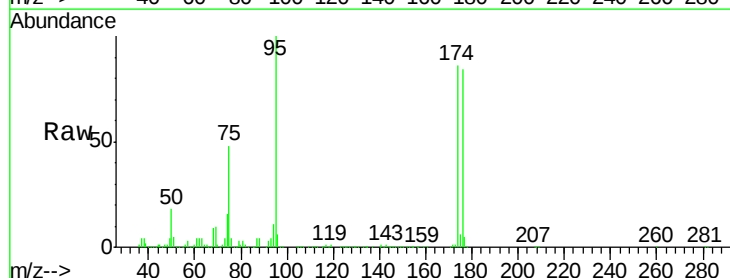
Instrument :
 MSVOA_N
 ClientSampleId :

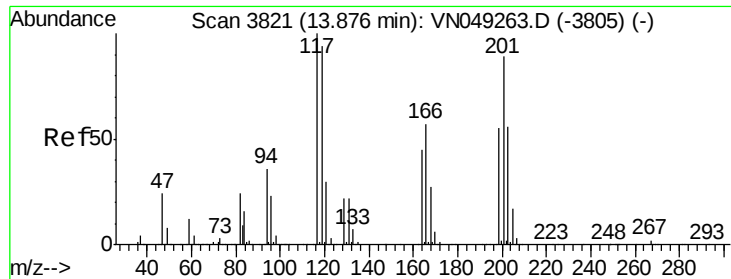
Tot Ion: 75 Resp: 313350
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 140.66 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049380.D
 Acq: 19 Jun 2018 7:58

Tgt Ion: 75 Resp: 313350
 Ion Ratio Lower Upper
 75 100
 53 0.3 82.7 124.1#
 89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.91 min Scan# 3833

Delta R.T. 0.04 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

Instrument :

MSVOA_N

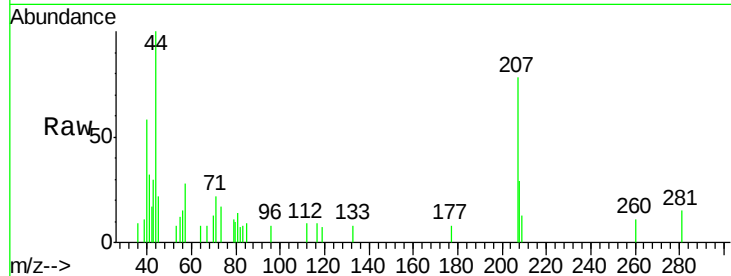
ClientSampleId :

Tot Ion:117 Resp: 76

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.91

200

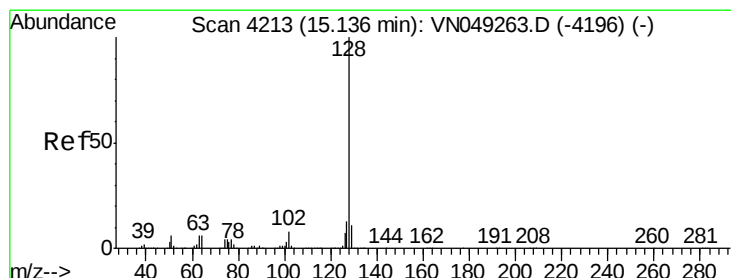
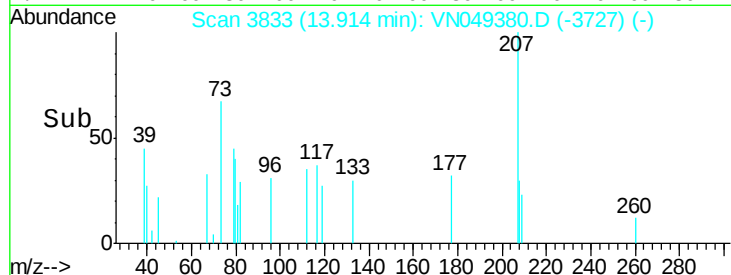
150

100

50

0

Time-->



#95

Naphthalene

Concen: 2.16 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049380.D

Acq: 19 Jun 2018 7:58

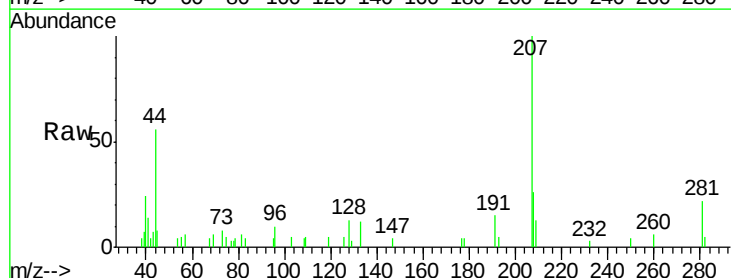
Tgt Ion:128 Resp: 979

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 6.6 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

800

600

400

200

0

Time-->

