

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049404.D
 Acq On : 19 Jun 2018 23:21
 Operator : MD\SY
 Sample : PB110363ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:35:32 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	1195882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1939401	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1560942	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	414159	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	812420	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
35) Dibromofluoromethane	7.59	113	714269	45.52	ug/l	0.00
Spiked Amount			Recovery	=	91.04%	
50) Toluene-d8	10.09	98	2594866	43.43	ug/l	0.00
Spiked Amount			Recovery	=	86.86%	
62) 4-Bromofluorobenzene	12.41	95	628927	31.84	ug/l	0.00
Spiked Amount			Recovery	=	63.68%	

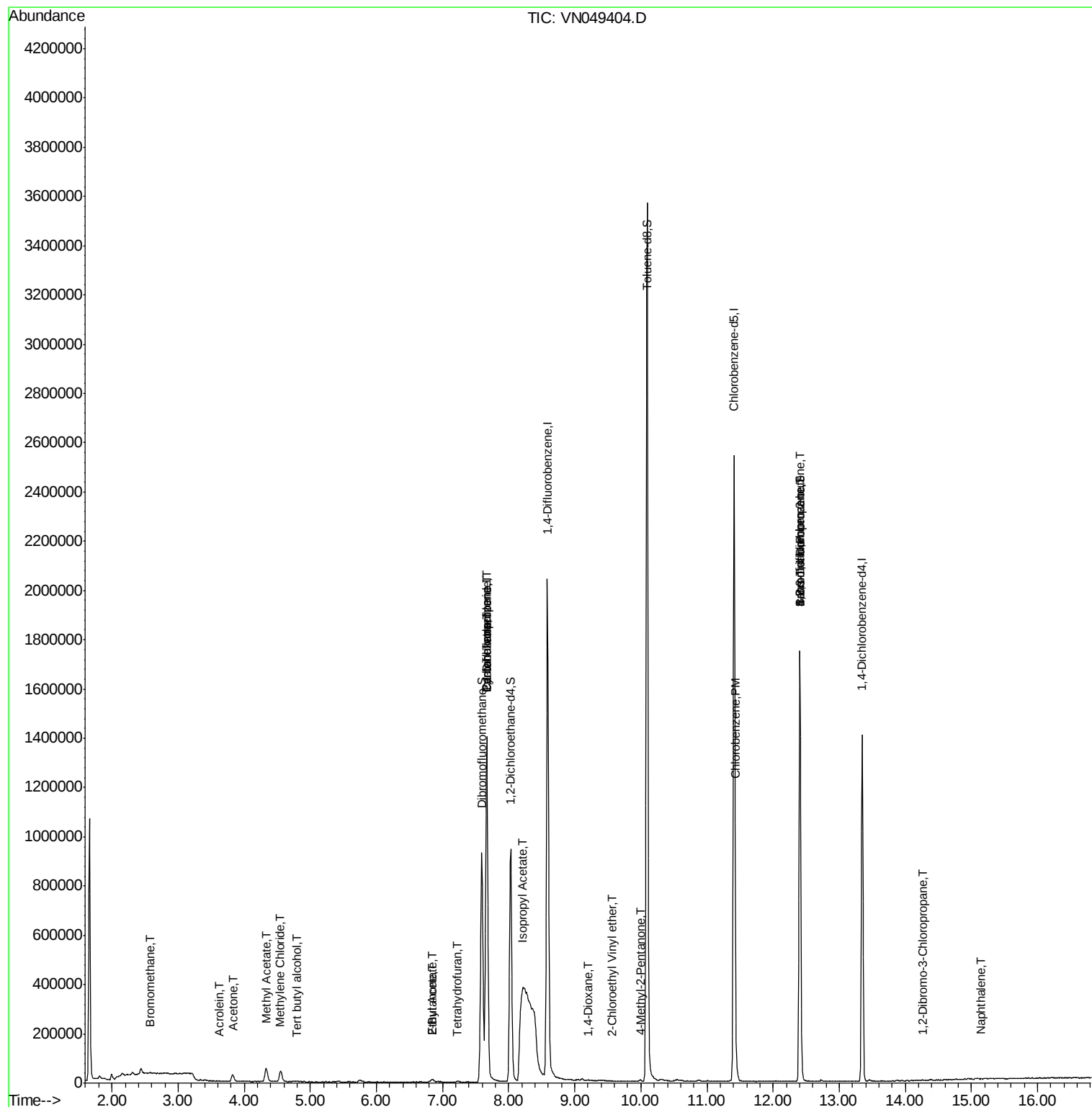
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	2774	0.28	ug/l #	39
11) Tert butyl alcohol	4.80	59	318	0.34	ug/l #	48
13) Acrolein	3.61	56	385	0.39	ug/l #	72
16) Acetone	3.83	43	43488	11.29	ug/l	93
18) Methyl Acetate	4.33	43	107568	9.16	ug/l	93
20) Methylene Chloride	4.54	84	32092	2.00	ug/l	90
25) 2-Butanone	6.85	43	7107	1.37	ug/l #	70
29) Tetrahydrofuran	7.23	42	3260	0.98	ug/l #	66
31) Cyclohexane	7.67	56	21901	0.76	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82244	3.70	ug/l #	50
37) Ethyl Acetate	6.85	43	7107	0.59	ug/l #	70
38) Carbon Tetrachloride	7.67	117	106870	4.64	ug/l #	17
43) Isopropyl Acetate	8.22	43	426625	18.48	ug/l #	64
49) 1,4-Dioxane	9.22	88	111	0.74	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4590	0.38	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.56	63	30	14.33	ug/l #	51
65) Chlorobenzene	11.44	112	21085	0.52	ug/l	97
71) Bromoform	12.41	173	4804	0.49	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	309	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.41	75	302664	42.83	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	302664	135.37	ug/l #	9
90) Hexachloroethane	13.64	117	132	Below Cal	#	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	431	0.34	ug/l #	4
95) Naphthalene	15.13	128	224	2.10	ug/l #	69

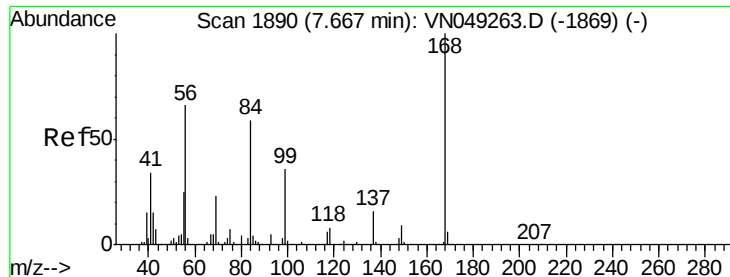
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN049404.D
Acq On : 19 Jun 2018 23:21
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Sample : PB110363ZHE#16
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 20 04:35:32 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: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

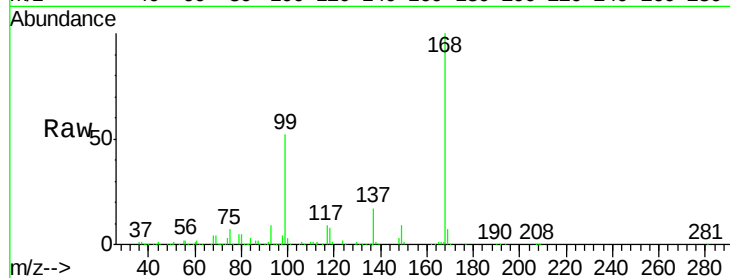
ClientSampleId :

Tot Ion:168 Resp: 1195882

Ion Ratio Lower Upper

168 100

99 51.7 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

500000

400000

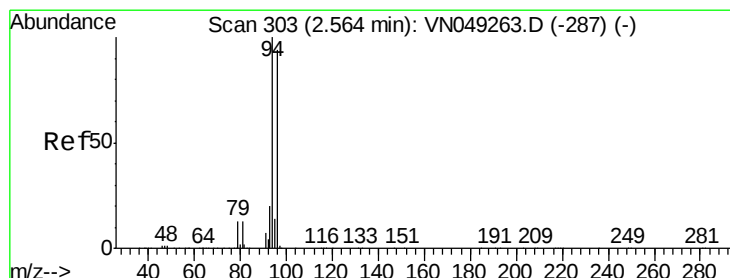
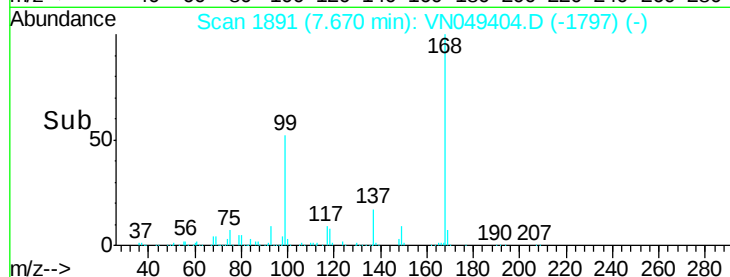
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.28 ug/l

RT: 2.58 min Scan# 308

Delta R.T. 0.02 min

Lab File: VN049404.D

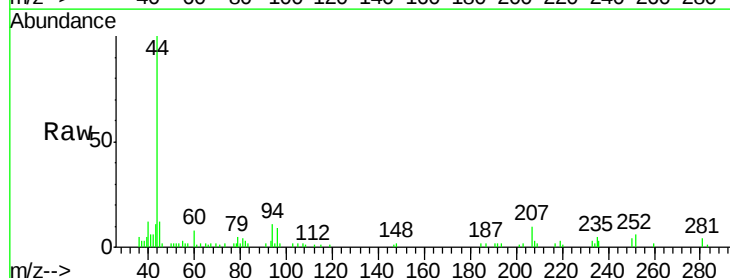
Acq: 19 Jun 2018 23:21

Tgt Ion: 94 Resp: 2774

Ion Ratio Lower Upper

94 100

96 32.7 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VN0

2.58

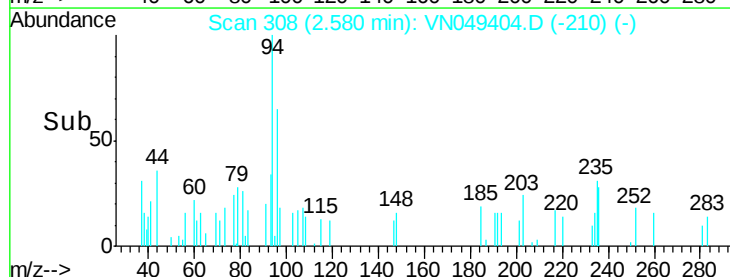
1500

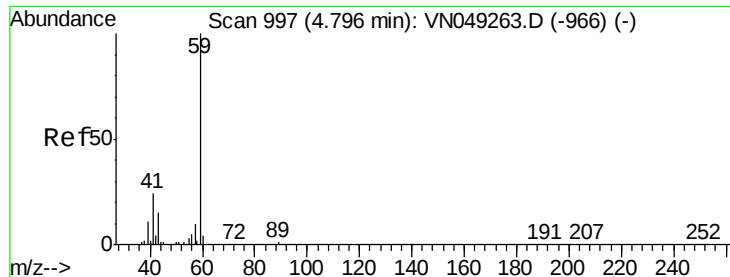
1000

500

0

Time--> 2.55 2.60

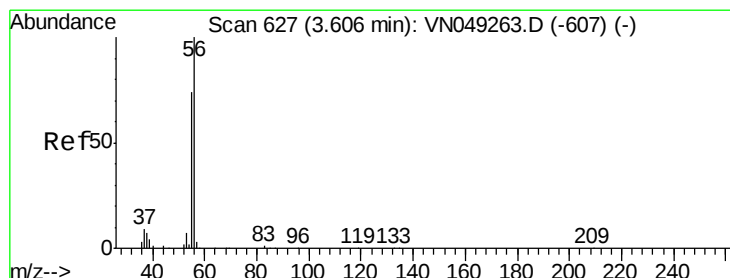
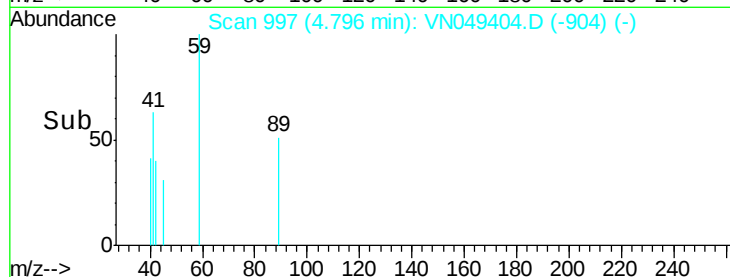
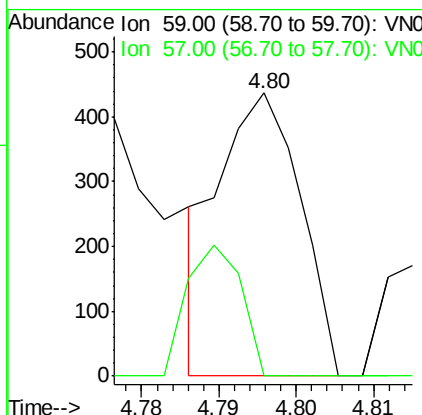
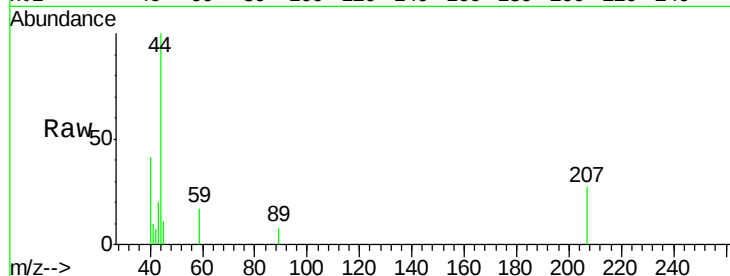




#11
Tert butyl alcohol
Concen: 0.34 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.00 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

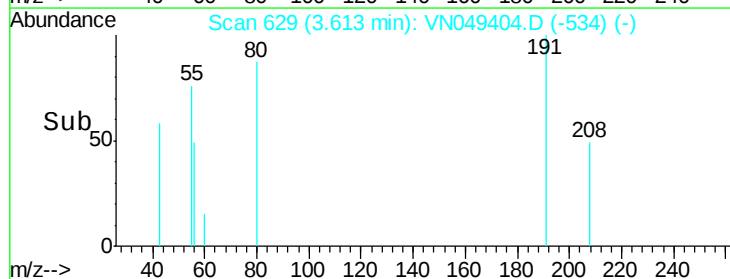
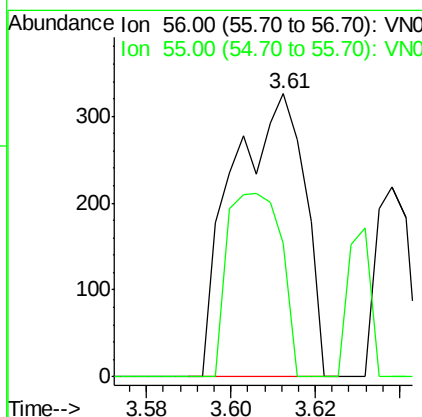
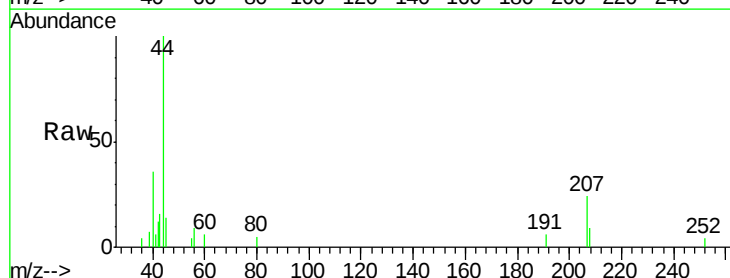
Instrument :
MSVOA_N
ClientSampled :

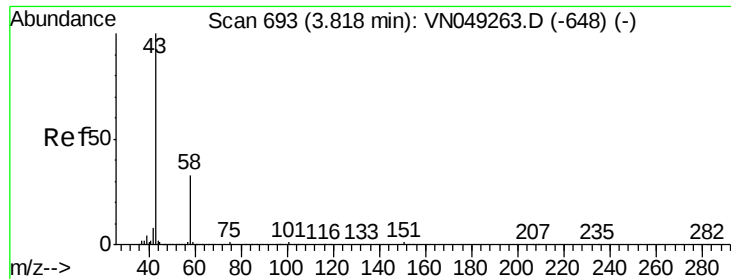
Tot Ion: 59 Resp: 318
Ion Ratio Lower Upper
59 100
57 31.1 9.0 13.6#



#13
Acrolein
Concen: 0.39 ug/l
RT: 3.61 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

Tgt Ion: 56 Resp: 385
Ion Ratio Lower Upper
56 100
55 48.6 57.1 85.7#





#16

Acetone

Concen: 11.29 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

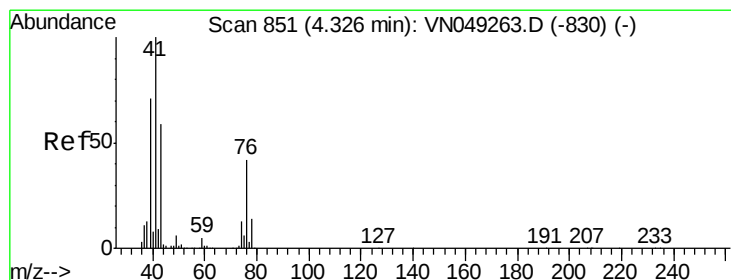
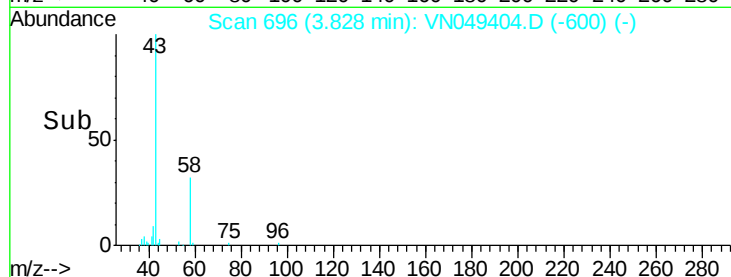
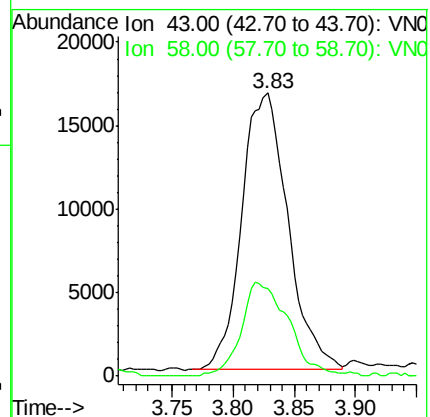
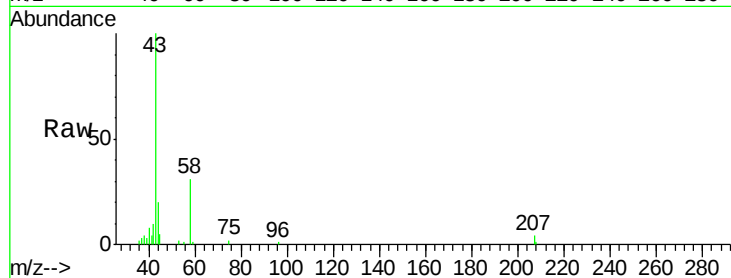
ClientSampled :

Tot Ion: 43 Resp: 43488

Ion Ratio Lower Upper

43 100

58 31.6 22.4 33.6



#18

Methyl Acetate

Concen: 9.16 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049404.D

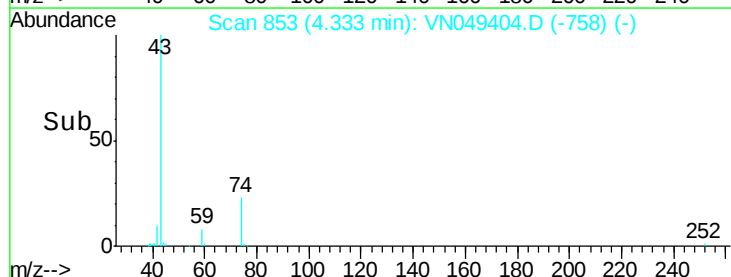
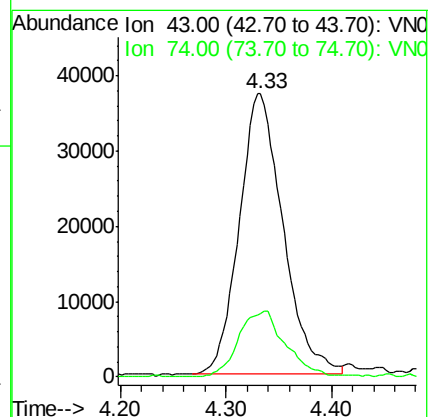
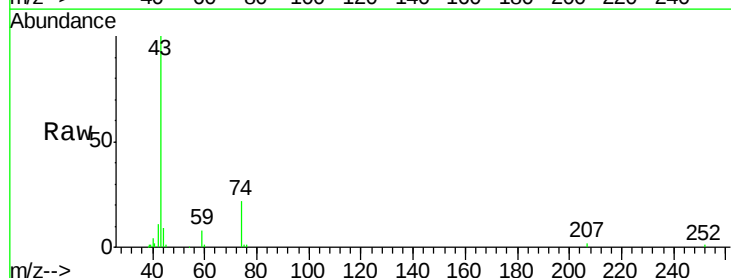
Acq: 19 Jun 2018 23:21

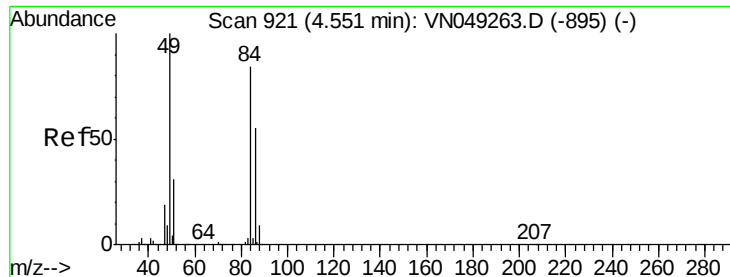
Tgt Ion: 43 Resp: 107568

Ion Ratio Lower Upper

43 100

74 25.0 17.4 26.0

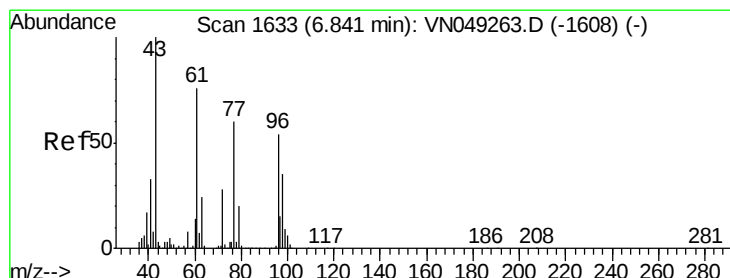
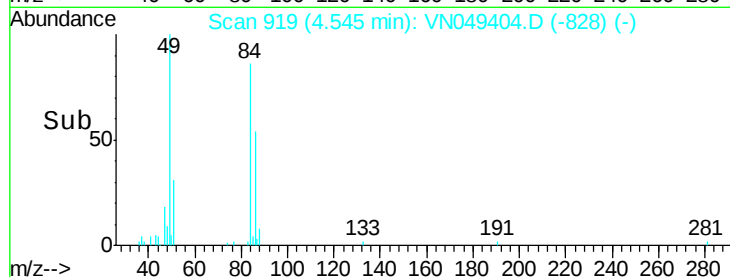
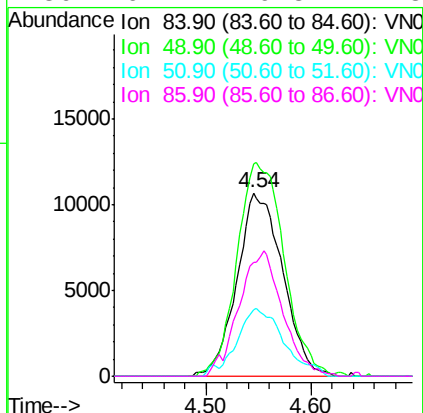
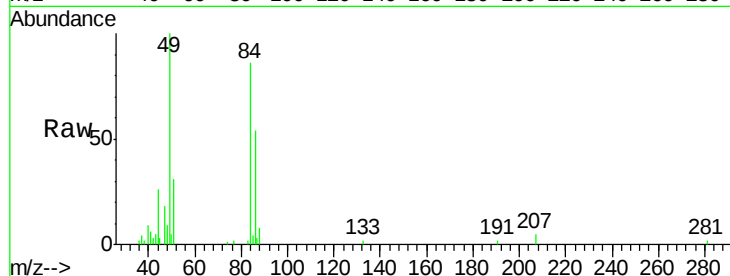




#20
Methylene Chloride
Concen: 2.00 ug/l
RT: 4.54 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

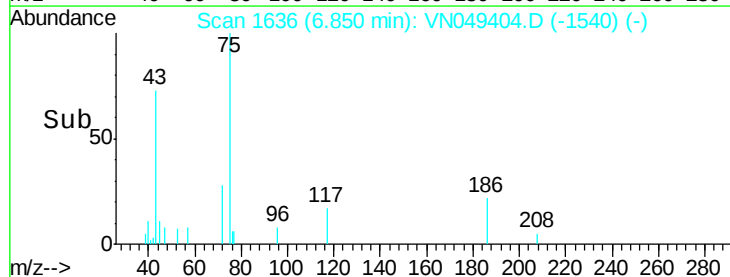
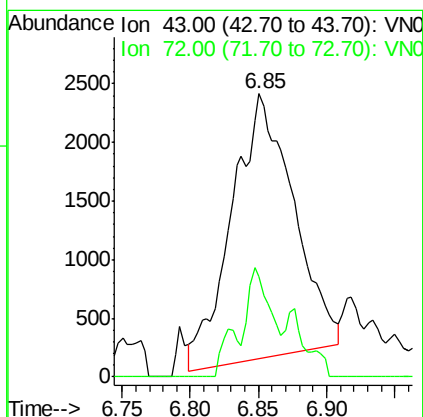
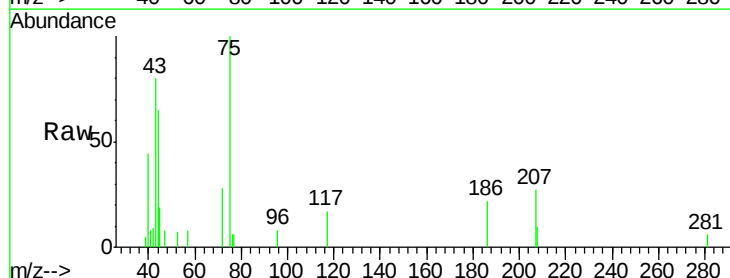
Instrument :
MSVOA_N
ClientSampled :

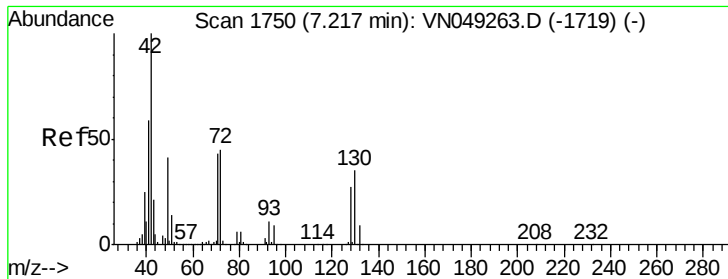
Tot Ion: 84 Resp: 32092
Ion Ratio Lower Upper
84 100
49 115.7 106.9 160.3
51 36.0 32.7 49.1
86 62.1 49.8 74.8



#25
2-Butanone
Concen: 1.37 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

Tgt Ion: 43 Resp: 7107
Ion Ratio Lower Upper
43 100
72 40.1 20.2 30.2#

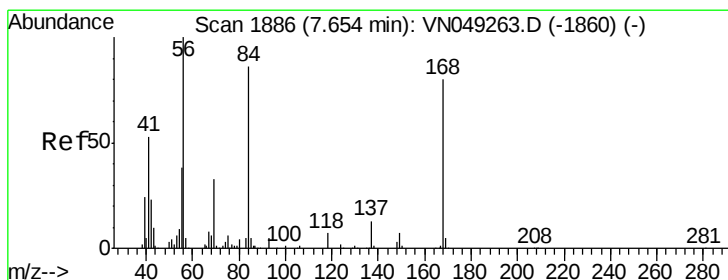
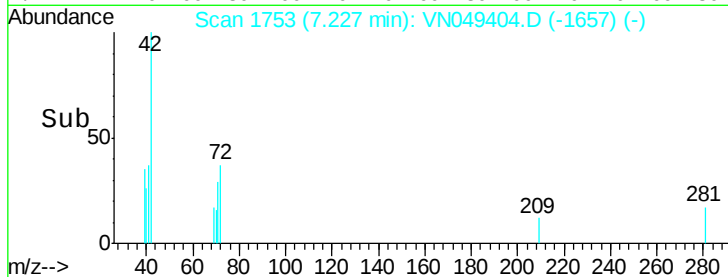
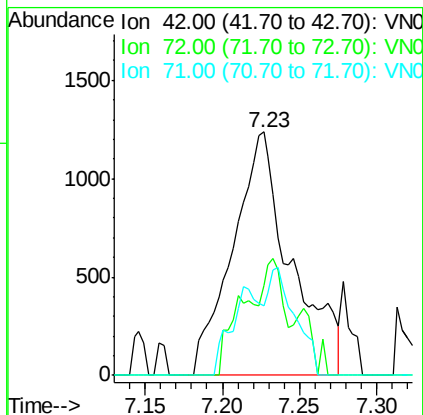
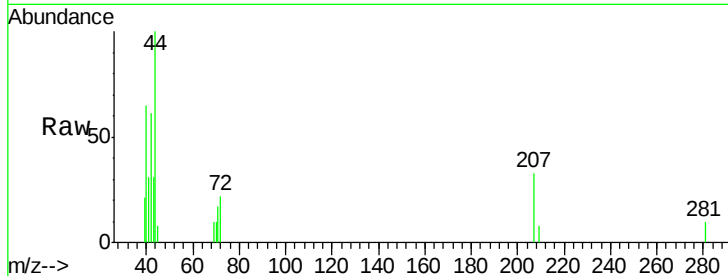




#29
Tetrahydrofuran
Concen: 0.98 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

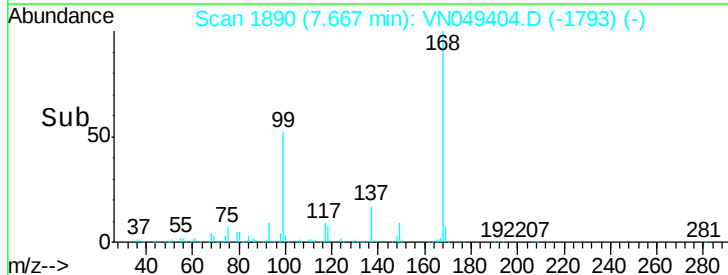
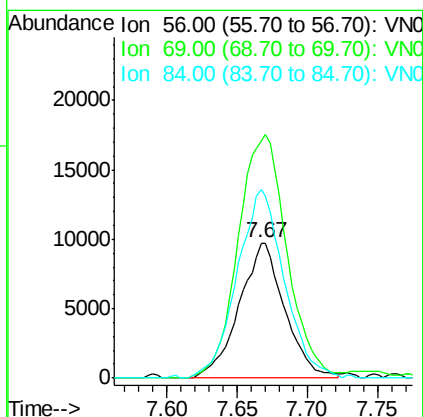
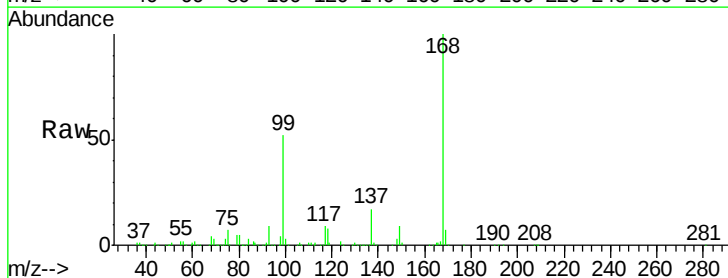
Instrument :
MSVOA_N
ClientSampleId :

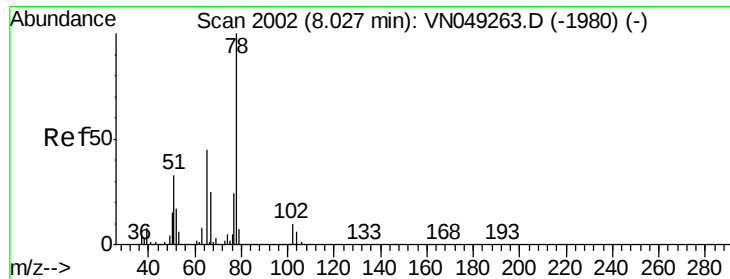
Tot Ion: 42 Resp: 3260
Ion Ratio Lower Upper
42 100
72 16.2 32.2 48.4#
71 20.5 30.5 45.7#



#31
Cyclohexane
Concen: 0.76 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

Tgt Ion: 56 Resp: 21901
Ion Ratio Lower Upper
56 100
69 175.6 25.0 37.4#
84 139.8 64.6 96.8#

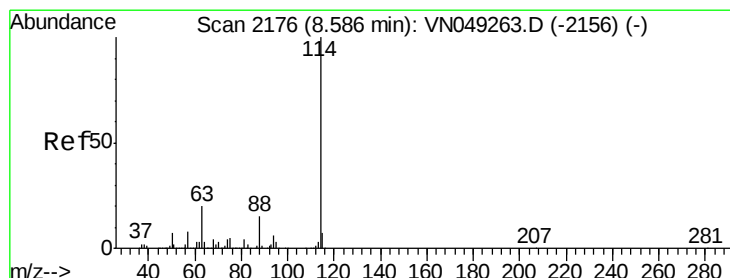
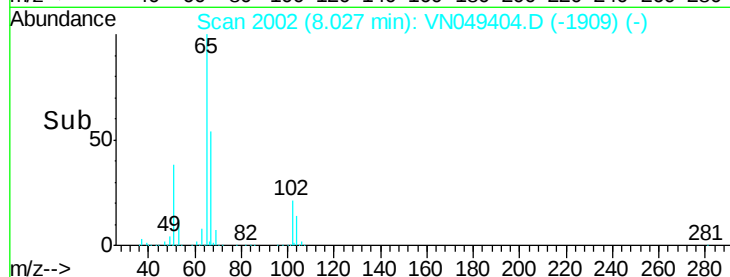
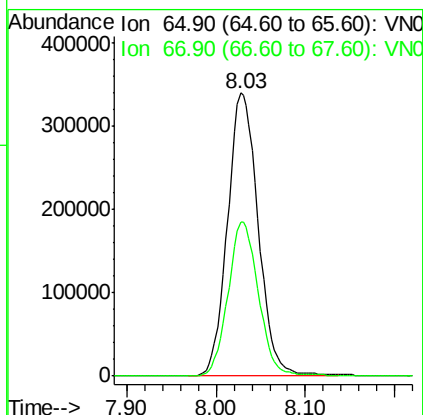
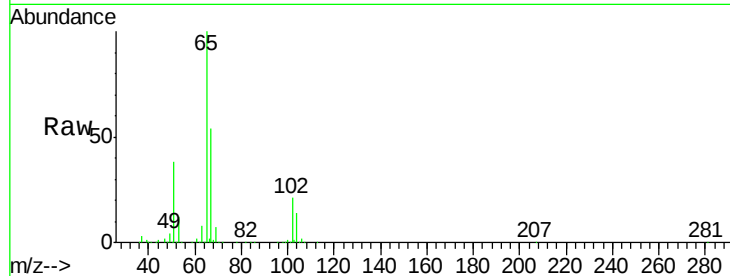




#33
 1,2-Dichloroethane-d4
 Concen: 51.22 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN049404.D
 Acq: 19 Jun 2018 23:21

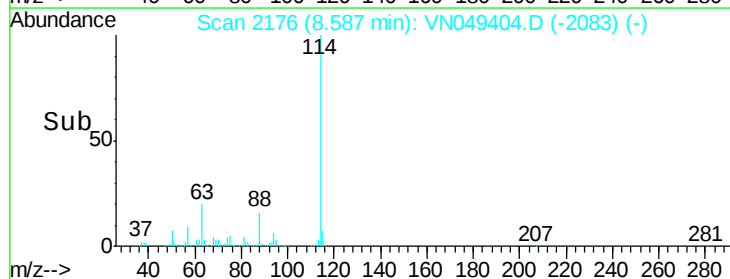
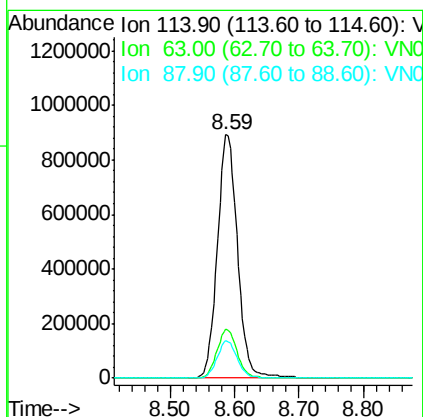
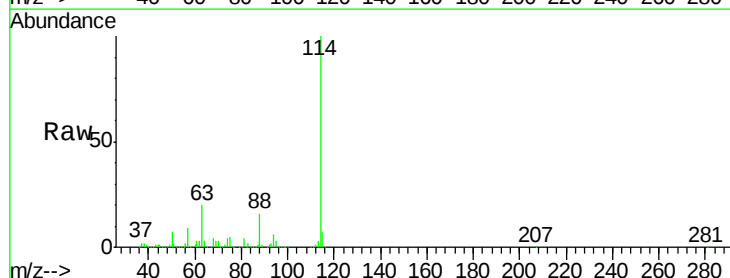
Instrument :
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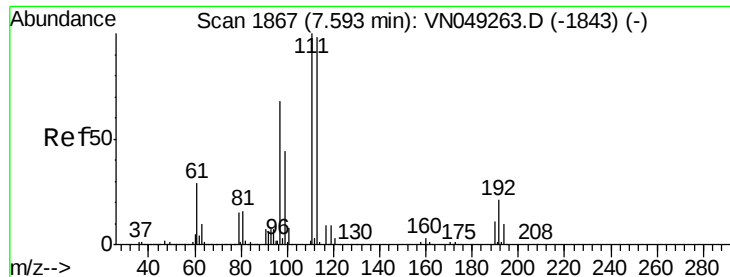
Tot Ion: 65 Resp: 812420
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049404.D
 Acq: 19 Jun 2018 23:21

Tgt Ion: 114 Resp: 1939401
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 44.4
 88 15.5 0.0 31.4

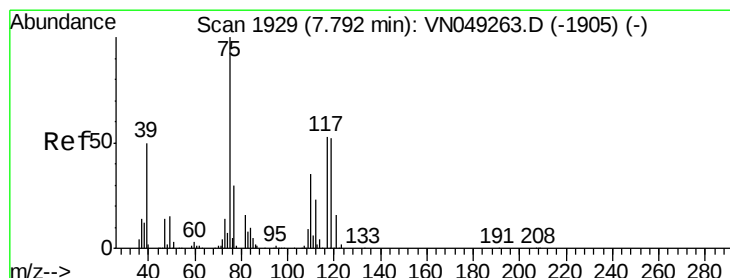
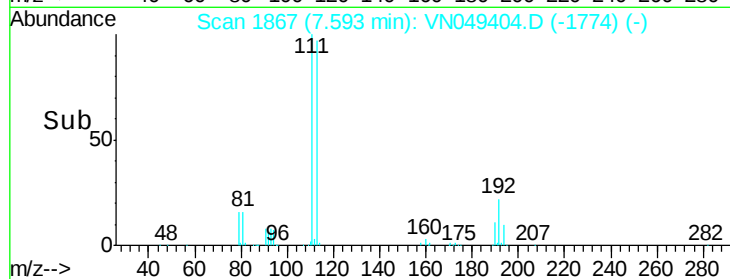
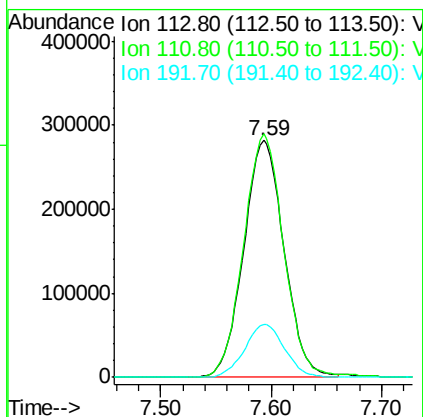
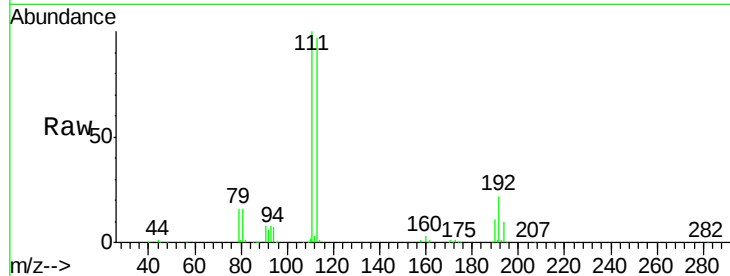




#35
 Dibromofluoromethane
 Concen: 45.52 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049404.D
 Acq: 19 Jun 2018 23:21

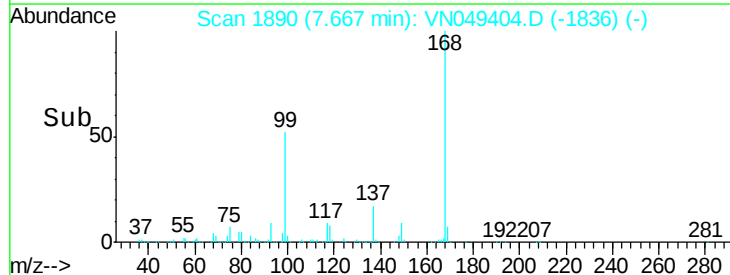
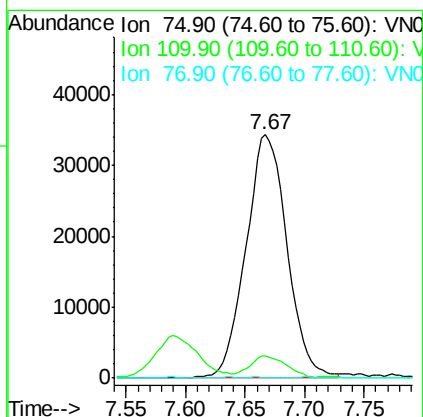
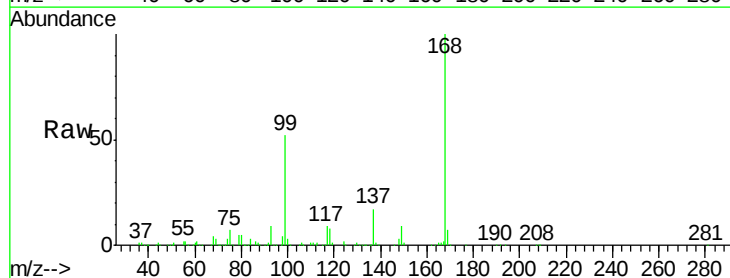
Instrument :
 MSVOA_N
 ClientSampleId :

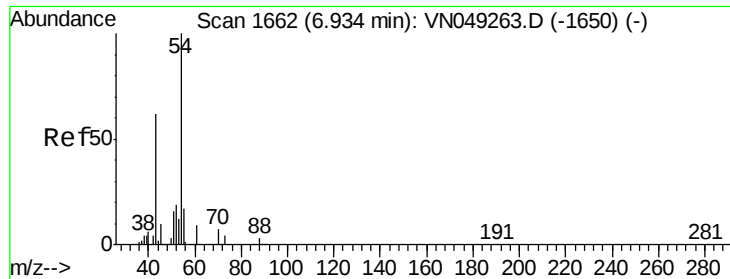
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.4	123.6
192	22.2	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 3.70 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049404.D
 Acq: 19 Jun 2018 23:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.0	50.9#
77	0.1	24.4	36.6#

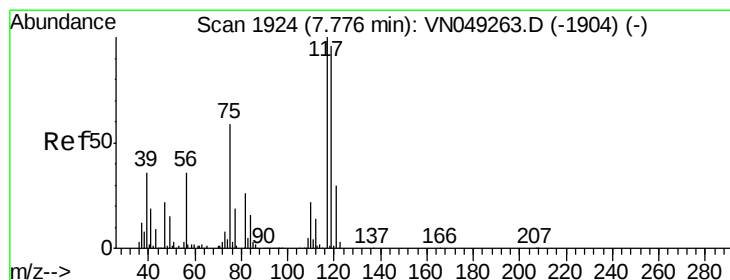
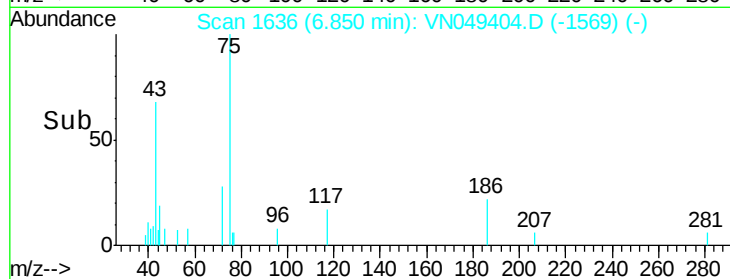
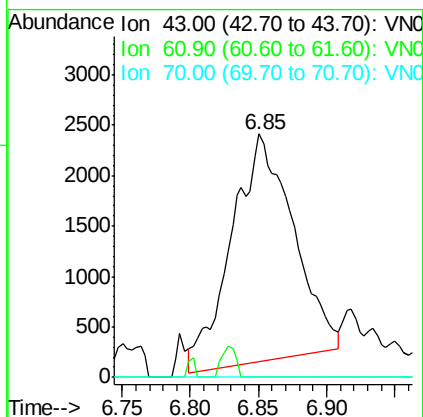
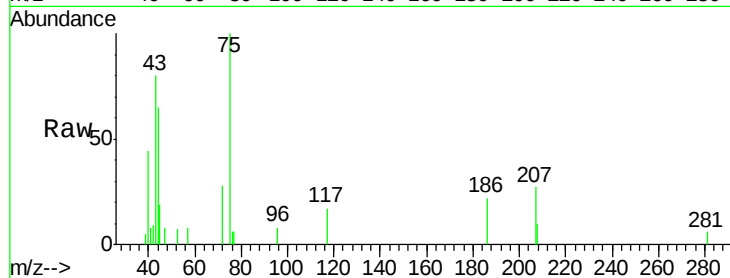




#37
Ethyl Acetate
Concen: 0.59 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

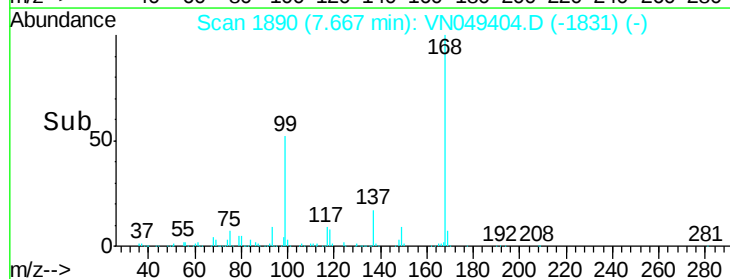
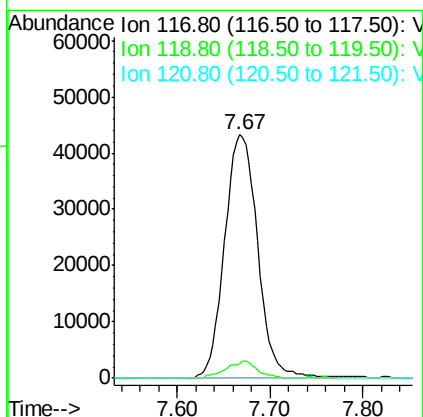
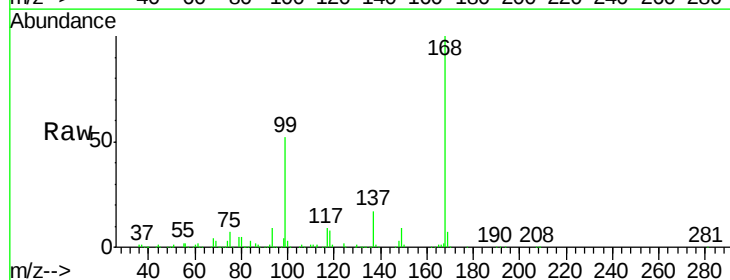
Instrument :
MSVOA_N
ClientSampleId :

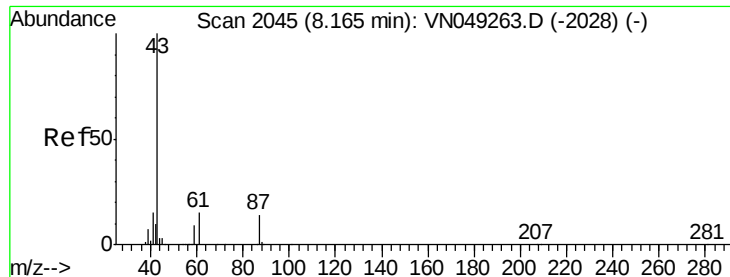
Tot Ion: 43 Resp: 7107
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.4#
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 4.64 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

Tgt Ion: 117 Resp: 106870
Ion Ratio Lower Upper
117 100
119 5.9 75.6 113.4#
121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 18.48 ug/l

RT: 8.22 min Scan# 2061

Delta R.T. 0.05 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

ClientSampleId :

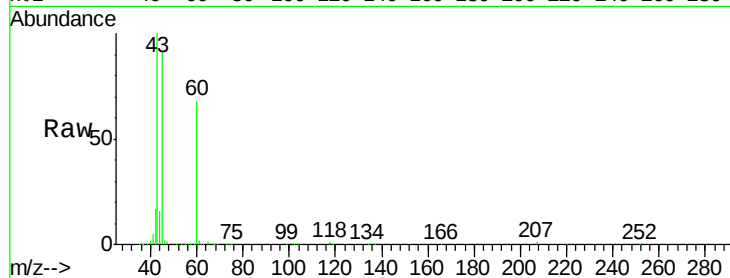
Tot Ion: 43 Resp: 426625

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

87 0.0 9.4 14.0#

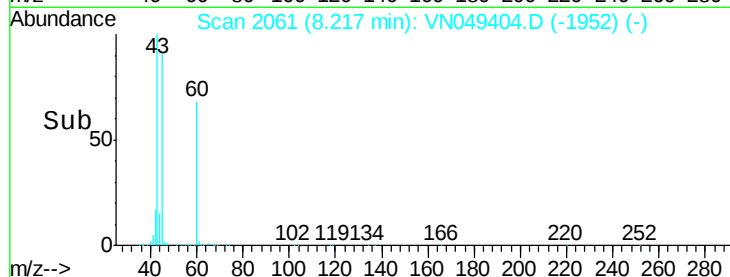


Abundance Ion 43.00 (42.70 to 43.70): VN049404.D (-2061) (-)

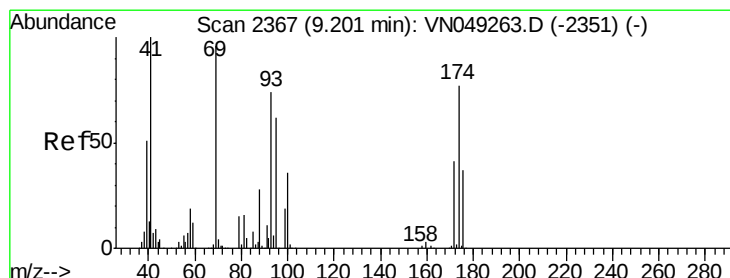
Ion 61.00 (60.70 to 61.70): VN049404.D (-2061) (-)

Ion 87.00 (86.70 to 87.70): VN049404.D (-2061) (-)

Time-->



Time-->



#49

1,4-Dioxane

Concen: 0.74 ug/l

RT: 9.22 min Scan# 2372

Delta R.T. 0.02 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

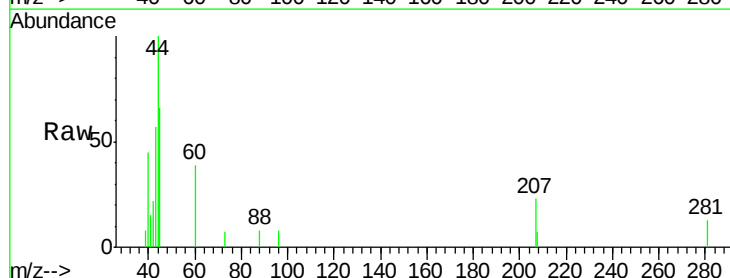
Tgt Ion: 88 Resp: 111

Ion Ratio Lower Upper

88 100

43 510.8 30.9 46.3#

58 0.0 58.9 88.3#

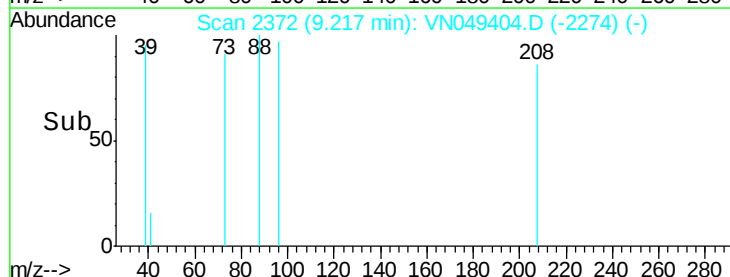


Abundance Ion 88.00 (87.70 to 88.70): VN049404.D (-2372) (-)

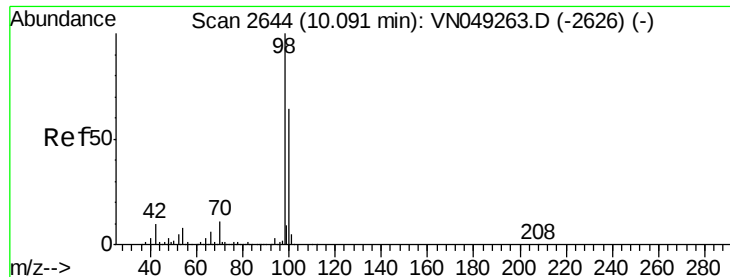
Ion 43.00 (42.70 to 43.70): VN049404.D (-2372) (-)

Ion 58.00 (57.70 to 58.70): VN049404.D (-2372) (-)

Time-->



Time-->



#50

Toluene-d8

Concen: 43.43 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

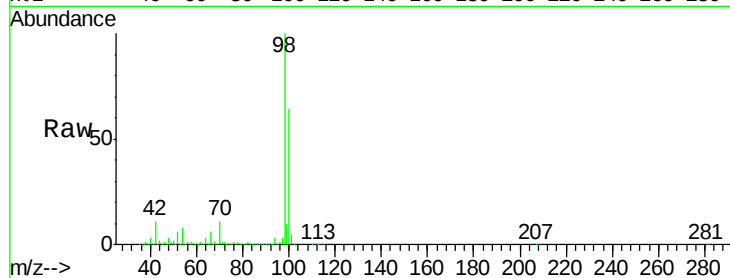
ClientSampleId :

Tot Ion: 98 Resp: 2594866

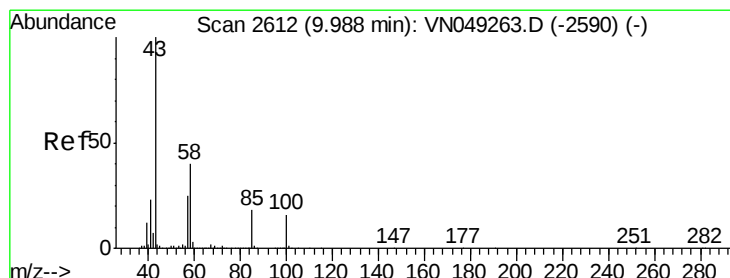
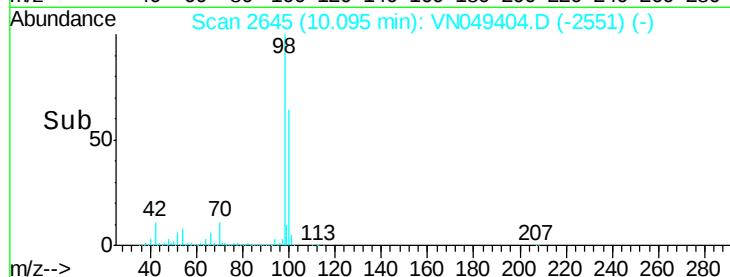
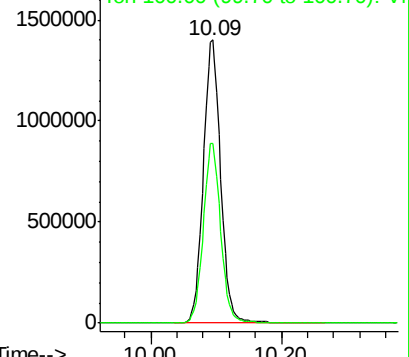
Ion Ratio Lower Upper

98 100

100 63.3 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.38 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN049404.D

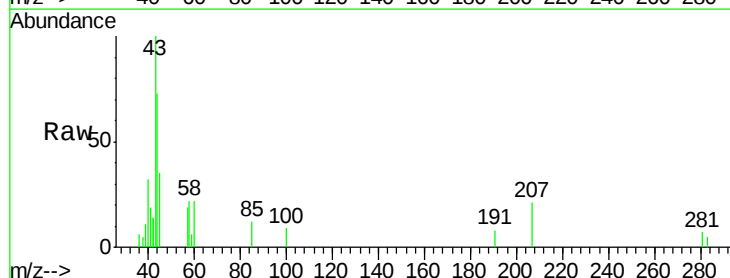
Acq: 19 Jun 2018 23:21

Tgt Ion: 43 Resp: 4590

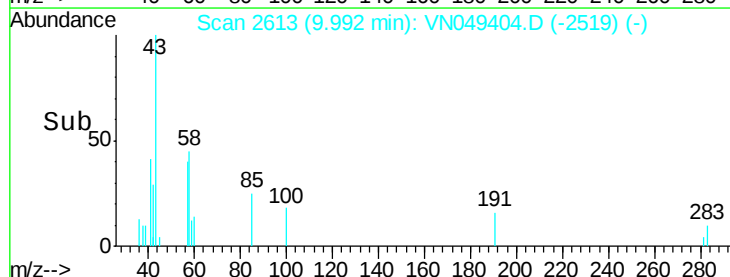
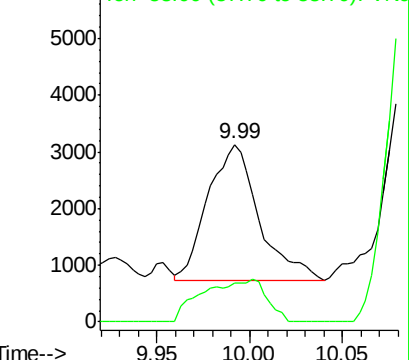
Ion Ratio Lower Upper

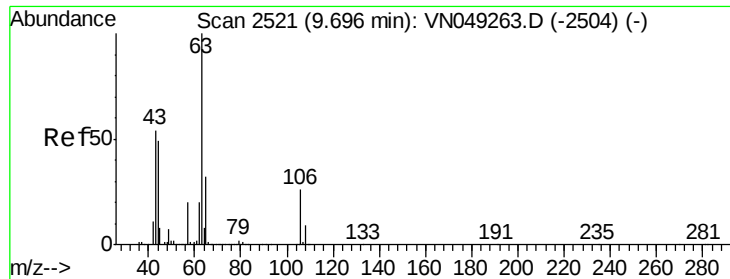
43 100

58 38.7 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

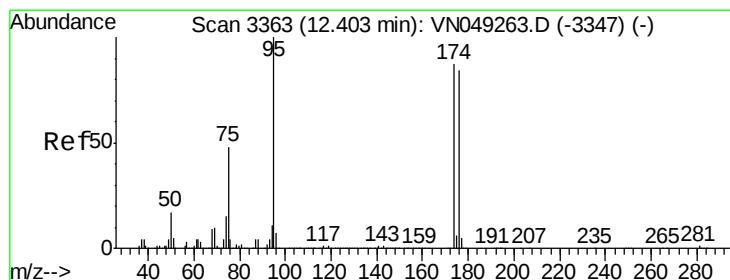
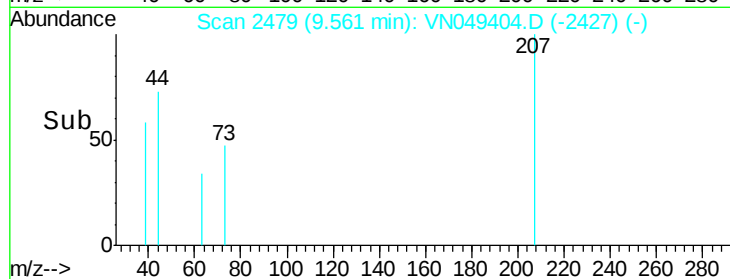
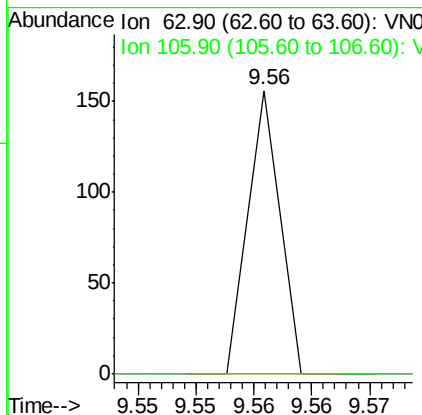
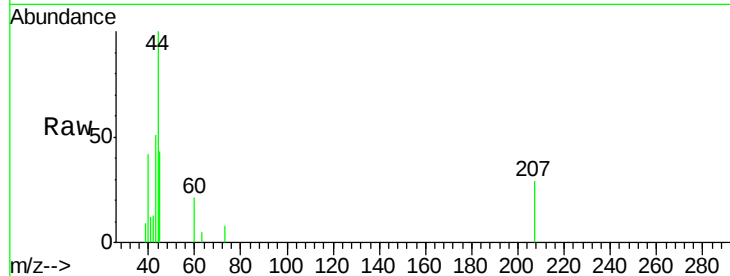




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.33 ug/l
 RT: 9.56 min Scan# 2479
 Delta R.T. -0.13 min
 Lab File: VN049404.D
 Acq: 19 Jun 2018 23:21

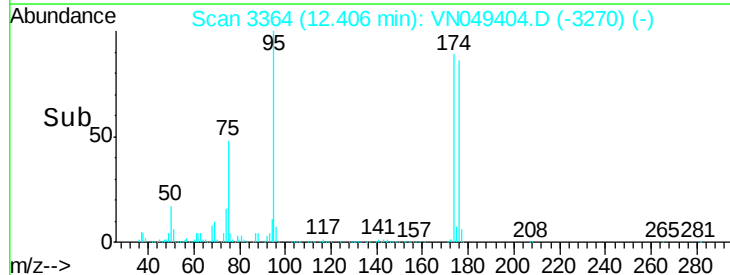
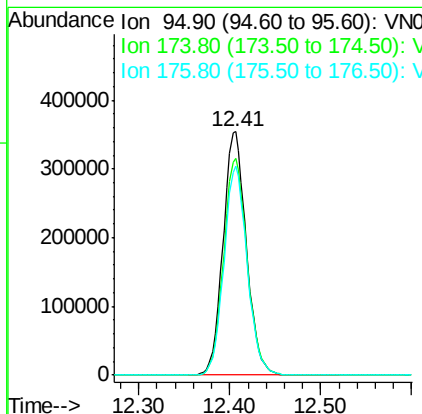
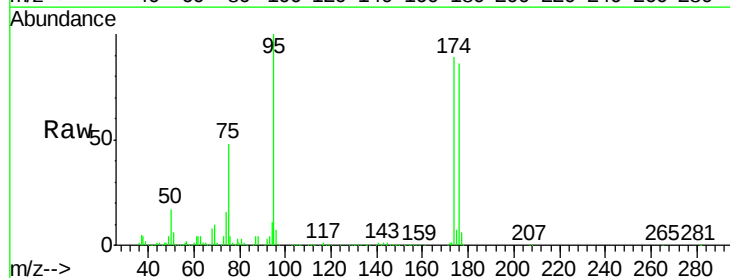
Instrument :
 MSVOA_N
 ClientSampleId :

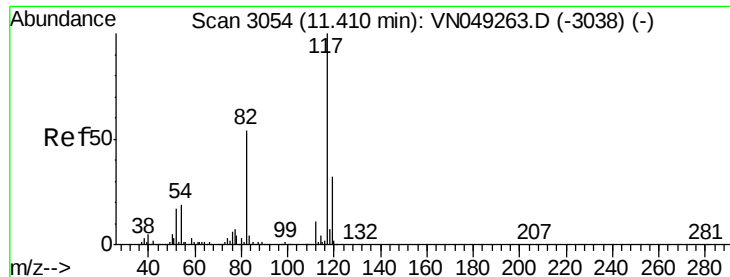
Tot Ion: 63 Resp: 30
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#



#62
 4-Bromofluorobenzene
 Concen: 31.84 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. 0.00 min
 Lab File: VN049404.D
 Acq: 19 Jun 2018 23:21

Tgt Ion: 95 Resp: 628927
 Ion Ratio Lower Upper
 95 100
 174 90.0 0.0 165.6
 176 85.4 0.0 157.4

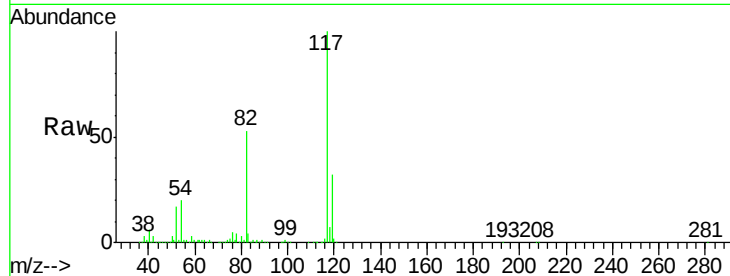




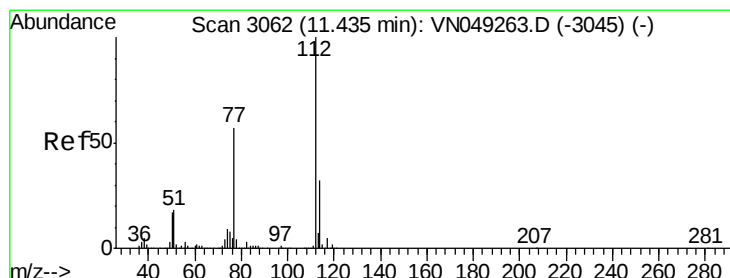
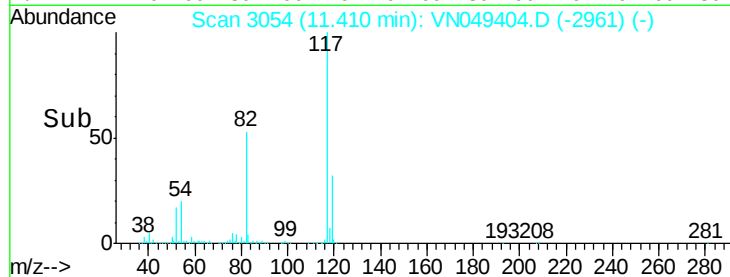
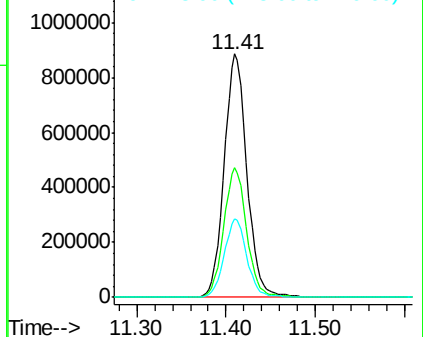
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1560942
Ion Ratio Lower Upper
117 100
82 53.1 45.9 68.9
119 32.2 25.5 38.3

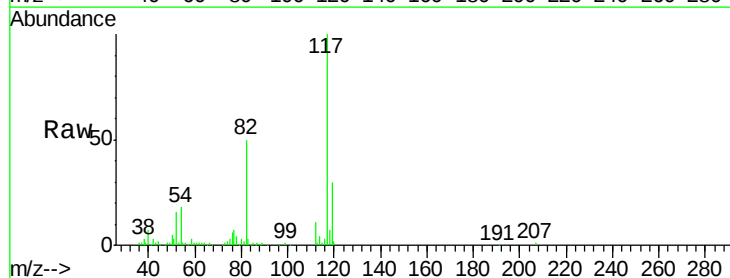


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

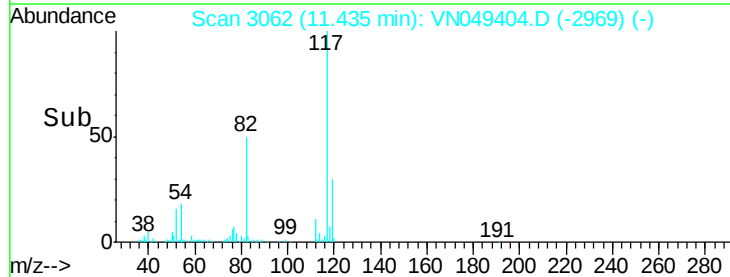
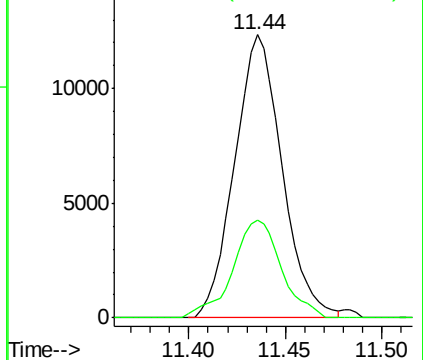


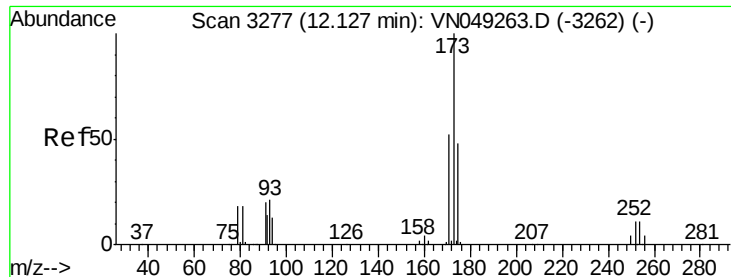
#65
Chlorobenzene
Concen: 0.52 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049404.D
Acq: 19 Jun 2018 23:21

Tgt Ion:112 Resp: 21085
Ion Ratio Lower Upper
112 100
114 34.4 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.49 ug/l

RT: 12.41 min Scan# 3365

Delta R.T. 0.28 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

ClientSampleId :

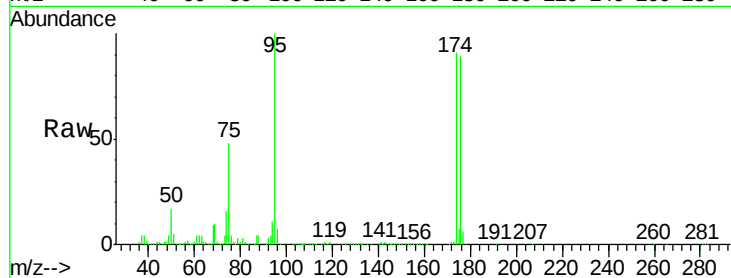
Tot Ion:173 Resp: 4804

Ion Ratio Lower Upper

173 100

175 653.6 24.5 73.5#

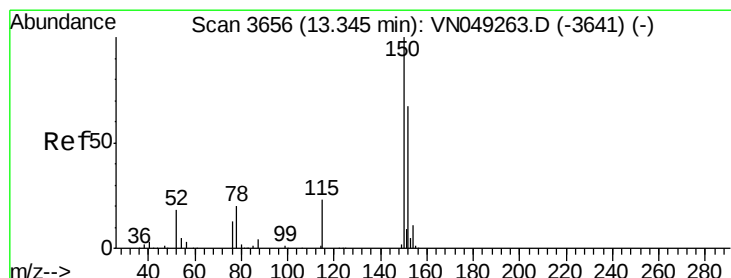
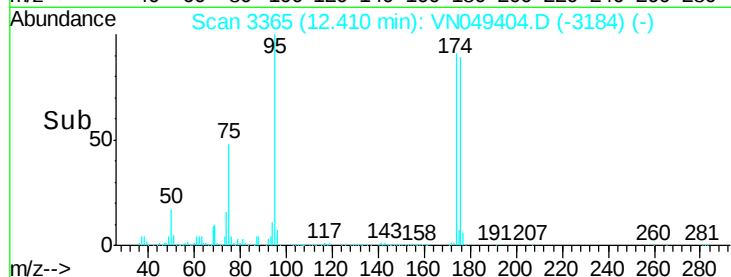
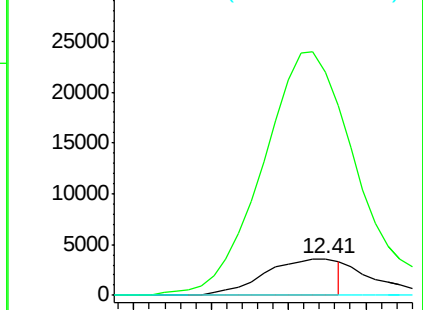
254 0.0 0.1 0.1#



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: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

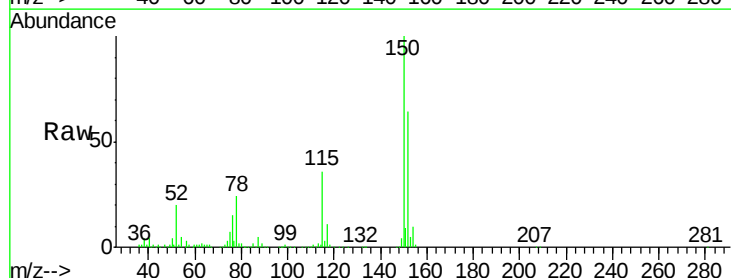
Tgt Ion:152 Resp: 414159

Ion Ratio Lower Upper

152 100

115 56.2 28.7 86.1

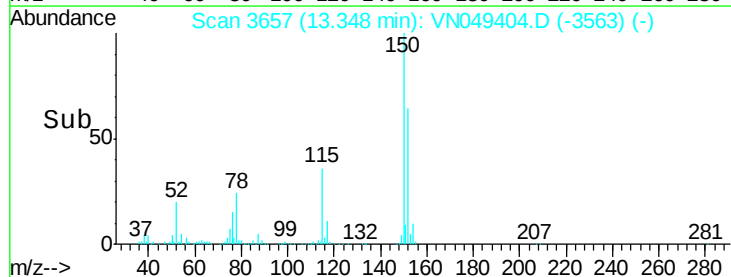
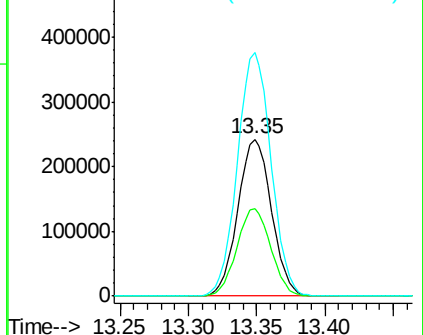
150 156.1 0.0 351.0

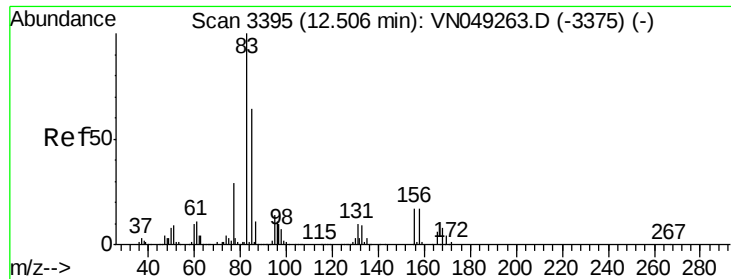


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

ClientSampled :

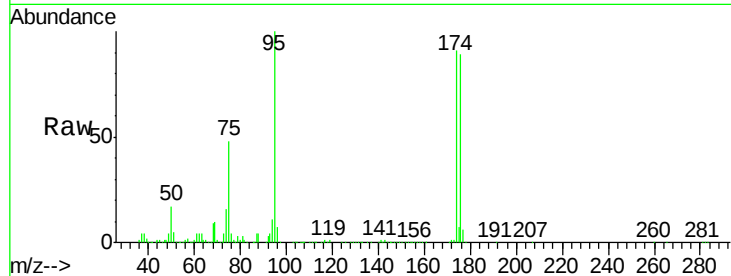
Tot Ion: 83 Resp: 309

Ion Ratio Lower Upper

83 100

131 235.0 5.0 15.0#

85 0.0 32.0 96.0#



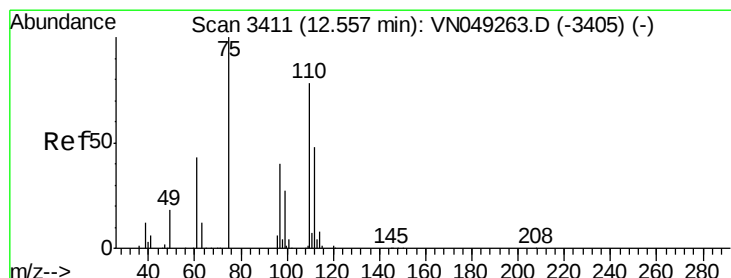
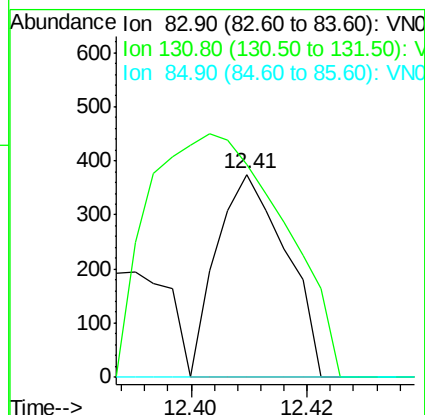
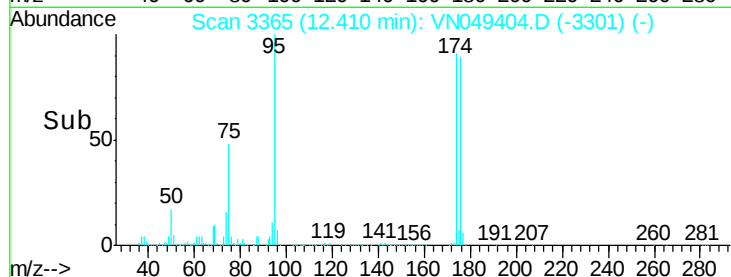
Abundance Ion 82.90 (82.60 to 83.60): VN049263.D (-3375) (-)

Ion 130.80 (130.50 to 131.50): VN049263.D (-3375) (-)

Ion 84.90 (84.60 to 85.60): VN049263.D (-3375) (-)

12.41

12.42



#76

1,2,3-Trichloropropane

Concen: 42.83 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049404.D

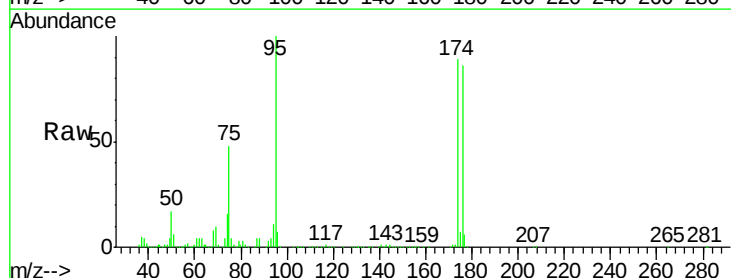
Acq: 19 Jun 2018 23:21

Tgt Ion: 75 Resp: 302664

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

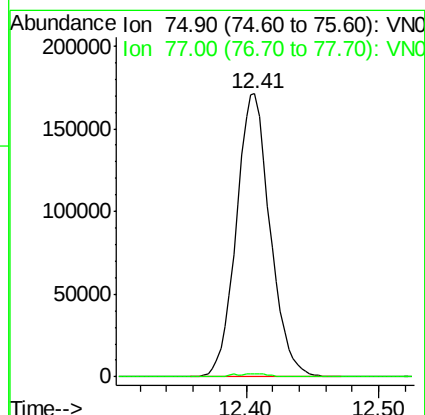
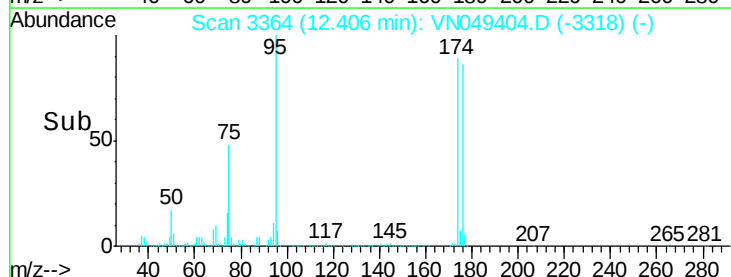


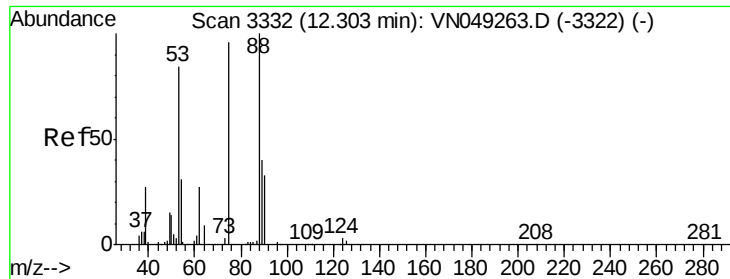
Abundance Ion 74.90 (74.60 to 75.60): VN049404.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN049404.D (-3318) (-)

12.41

12.50





#81

trans-1,4-Dichloro-2-butene

Concen: 135.37 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

ClientSampleId :

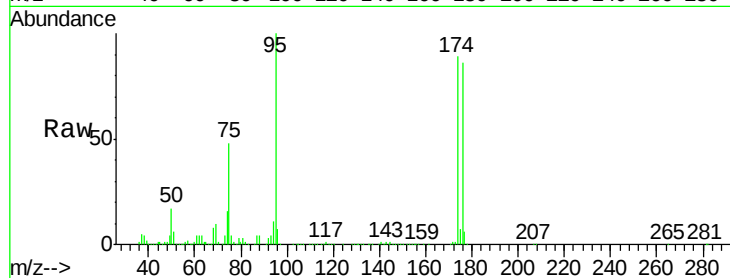
Tot Ion: 75 Resp: 302664

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

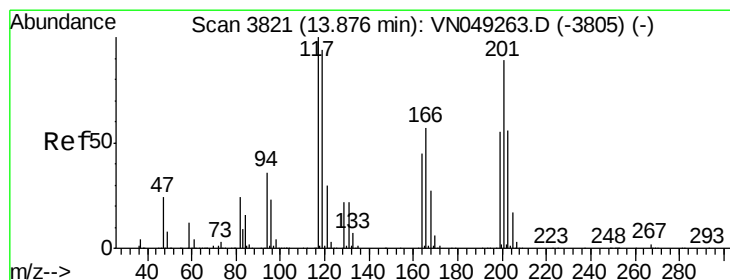
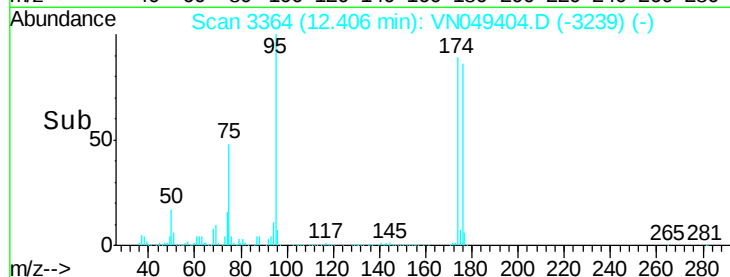
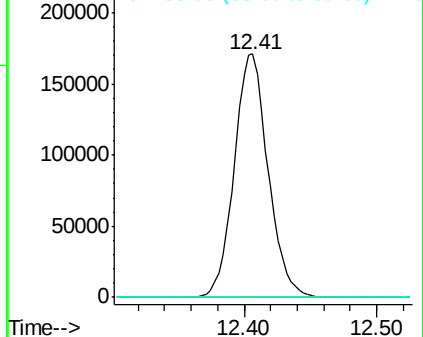
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049404.D (-3364) (-)

Ion 53.00 (52.70 to 53.70): VN049404.D (-3364) (-)

Ion 88.90 (88.60 to 89.60): VN049404.D (-3364) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.64 min Scan# 3747

Delta R.T. -0.24 min

Lab File: VN049404.D

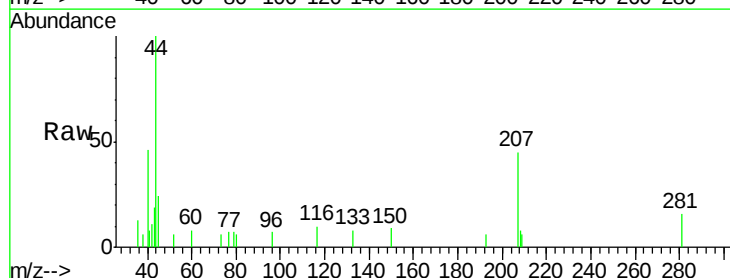
Acq: 19 Jun 2018 23:21

Tgt Ion: 117 Resp: 132

Ion Ratio Lower Upper

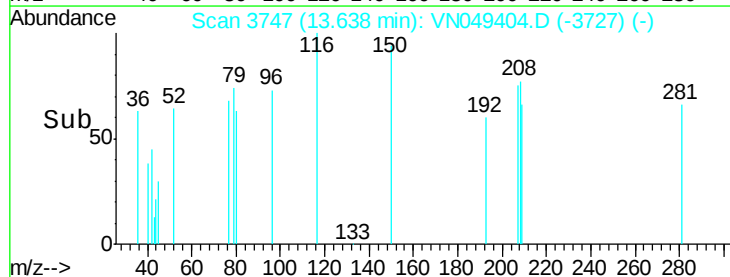
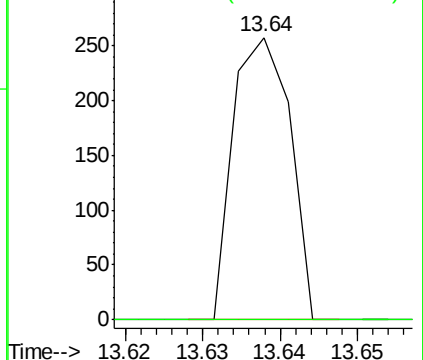
117 100

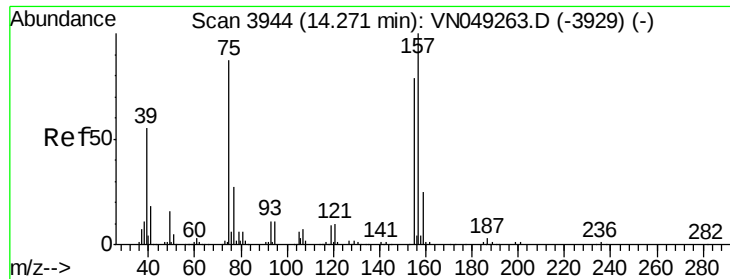
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049404.D (-3821) (-)

Ion 200.70 (200.40 to 201.40): VN049404.D (-3821) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.34 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

Instrument :

MSVOA_N

ClientSampled :

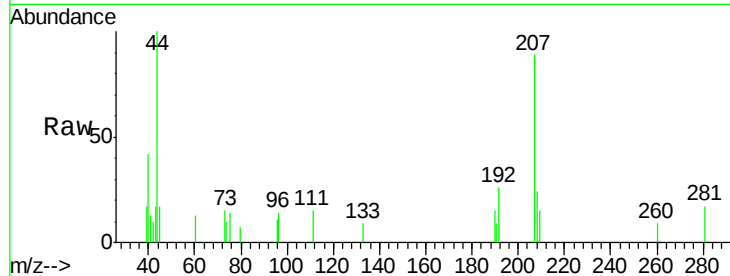
Tot Ion: 75 Resp: 431

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): VN049404.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049404.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049404.D (-3851) (-)

14.26

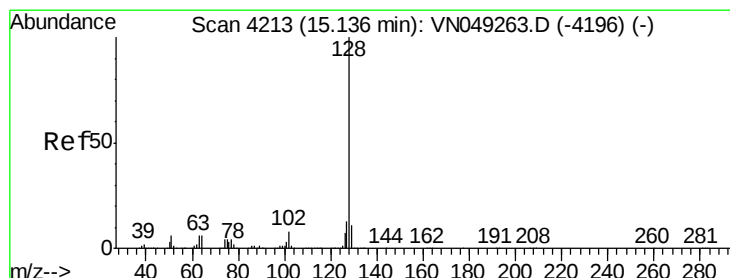
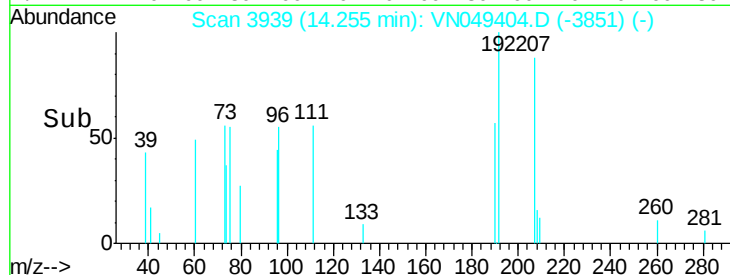
300

200

100

0

Time--> 14.22 14.24 14.26



#95

Naphthalene

Concen: 2.10 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VN049404.D

Acq: 19 Jun 2018 23:21

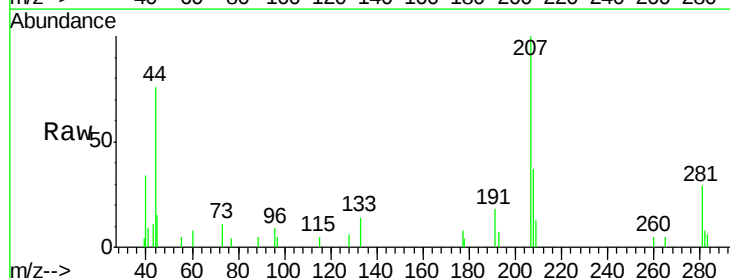
Tgt Ion: 128 Resp: 224

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): VN049404.D (-4120) (-)

Ion 127.00 (126.70 to 127.70): VN049404.D (-4120) (-)

Ion 129.00 (128.70 to 129.70): VN049404.D (-4120) (-)

15.13

300

200

100

0

Time--> 15.12 15.14

