

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062518\
 Data File : VN049520.D
 Acq On : 25 Jun 2018 19:21
 Operator : MD\SY
 Sample : PB110537ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB110537ZHE#05

Quant Time: Jun 26 01:42:22 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	1182789	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1880988	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1539816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	396979	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	802686	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
35) Dibromofluoromethane	7.59	113	696910	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
50) Toluene-d8	10.09	98	2557508	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	
62) 4-Bromofluorobenzene	12.41	95	616500	32.18	ug/l	0.00
Spiked Amount			Recovery	=	64.36%	

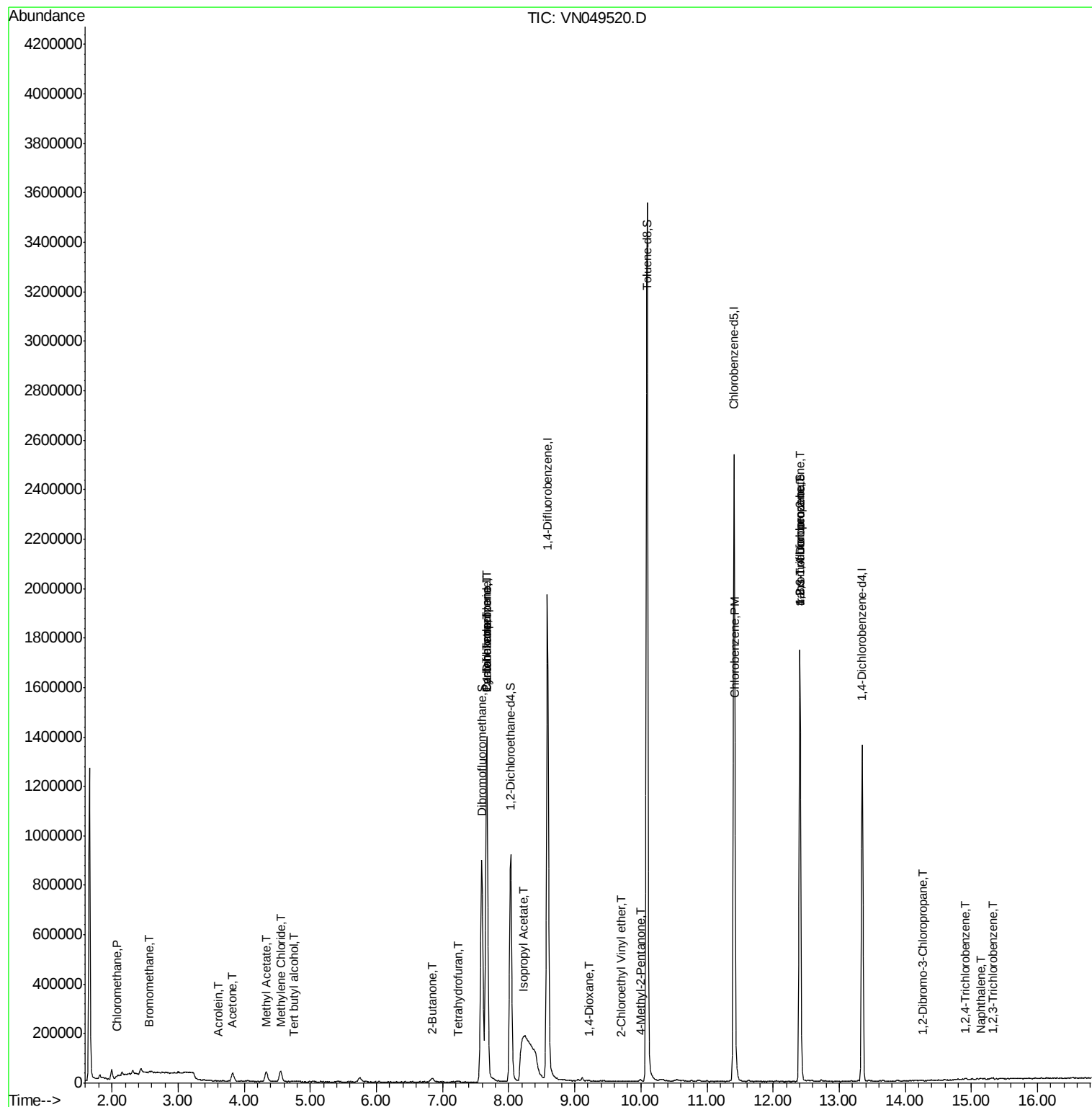
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3637	0.21	ug/l	99
5) Bromomethane	2.57	94	6142	0.63	ug/l #	77
11) Tert butyl alcohol	4.75	59	1562	1.70	ug/l #	70
13) Acrolein	3.60	56	371	0.38	ug/l #	43
16) Acetone	3.82	43	57922	15.21	ug/l	99
18) Methyl Acetate	4.33	43	75674	6.52	ug/l	92
20) Methylene Chloride	4.55	84	32512	2.04	ug/l	89
25) 2-Butanone	6.85	43	7793	1.52	ug/l	95
29) Tetrahydrofuran	7.23	42	1047	0.32	ug/l #	44
31) Cyclohexane	7.66	56	22586	0.80	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	83420	3.87	ug/l #	50
38) Carbon Tetrachloride	7.67	117	107750	4.83	ug/l #	16
43) Isopropyl Acetate	8.22	43	197582	8.82	ug/l #	64
49) 1,4-Dioxane	9.21	88	303	2.08	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5925	0.50	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	176	14.35	ug/l #	51
65) Chlorobenzene	11.43	112	15534	0.39	ug/l	88
75) 1,1,2,2-Tetrachloroethane	12.50	83	210	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.41	75	301672	44.54	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	301672	140.76	ug/l #	9
90) Hexachloroethane	13.98	117	66	Below	Cal #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	394	0.32	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	1655	4.96	ug/l #	60
94) Hexachlorobutadiene	15.01	225	592	Below	Cal	78
95) Naphthalene	15.13	128	2403	2.30	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.32	180	1619	3.68	ug/l	82

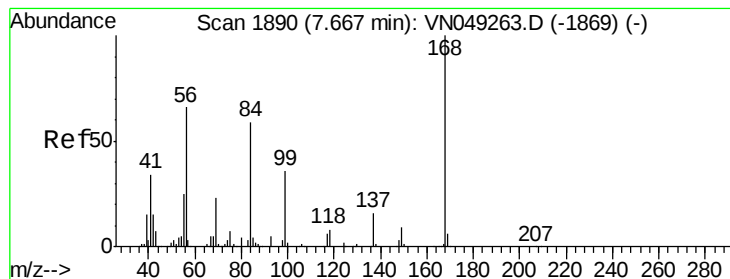
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 26 01:42:22 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# 1890

Delta R.T. -0.00 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

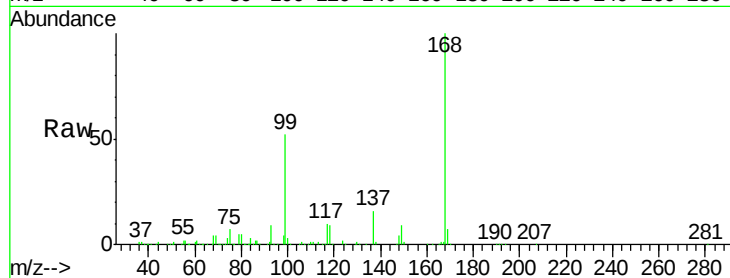
PB110537ZHE#05

Tot Ion:168 Resp: 1182789

Ion Ratio Lower Upper

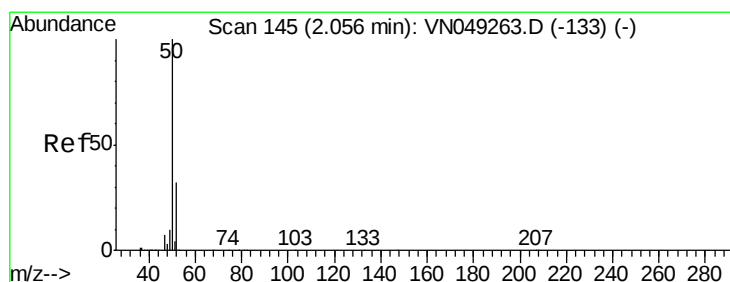
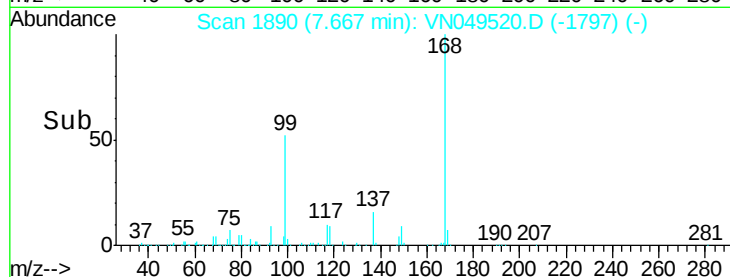
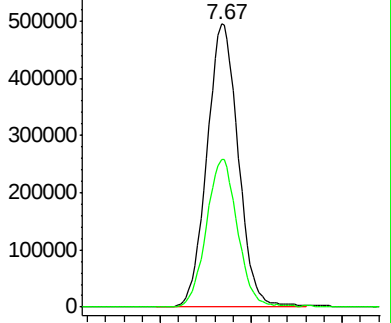
168 100

99 52.2 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: 0.21 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049520.D

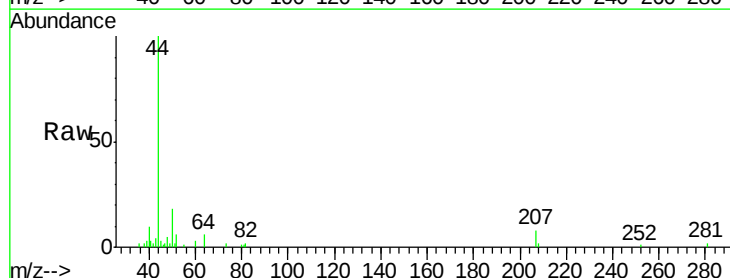
Acq: 25 Jun 2018 19:21

Tgt Ion: 50 Resp: 3637

Ion Ratio Lower Upper

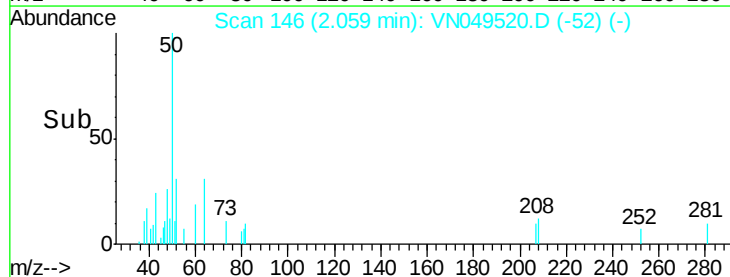
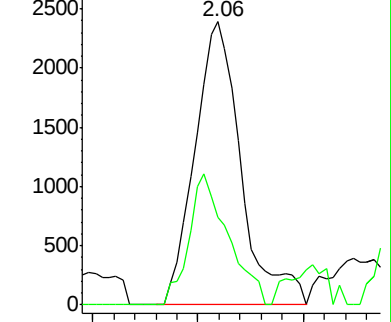
50 100

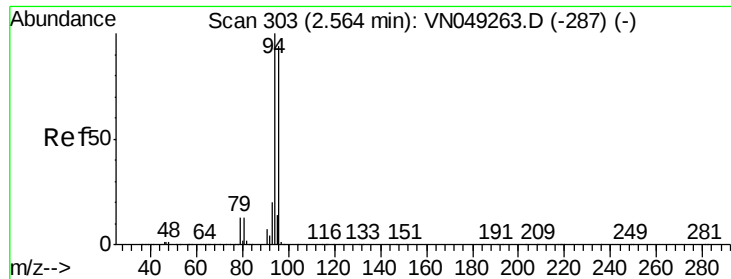
52 30.7 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#5

Bromomethane

Concen: 0.63 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

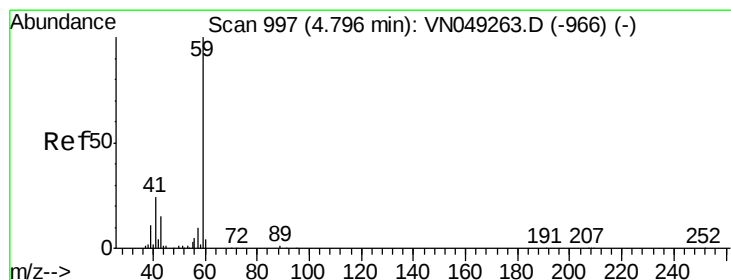
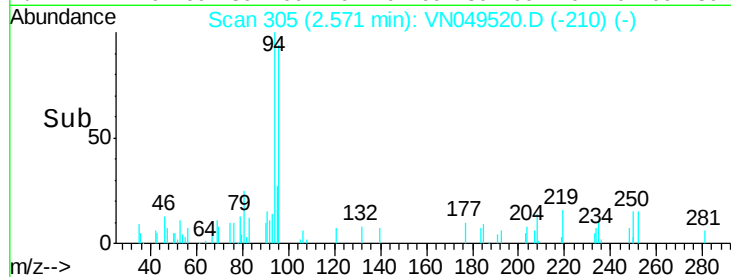
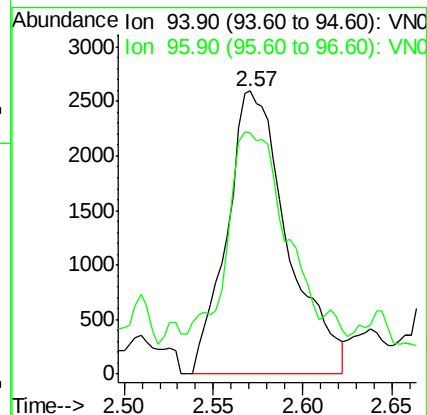
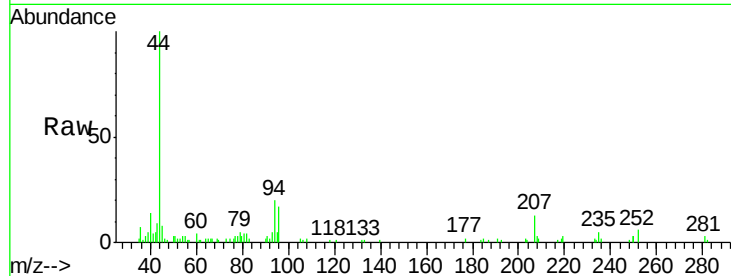
PB110537ZHE#05

Tot Ion: 94 Resp: 6142

Ion Ratio Lower Upper

94 100

96 69.6 72.8 109.2#



#11

Tert butyl alcohol

Concen: 1.70 ug/l

RT: 4.75 min Scan# 984

Delta R.T. -0.04 min

Lab File: VN049520.D

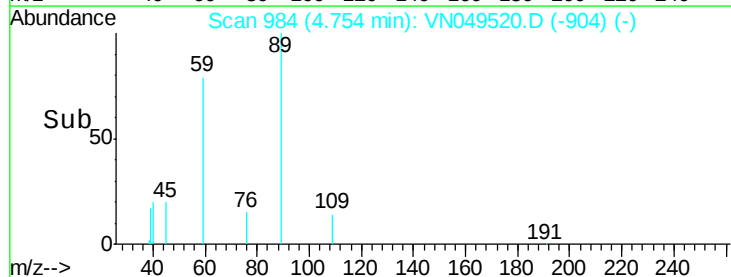
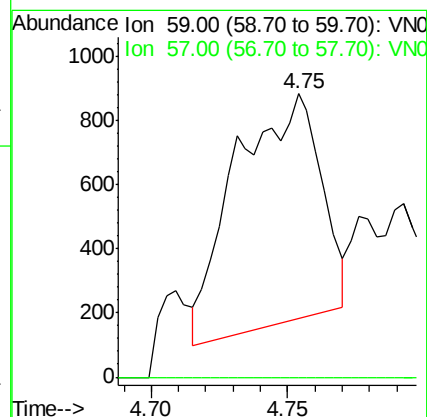
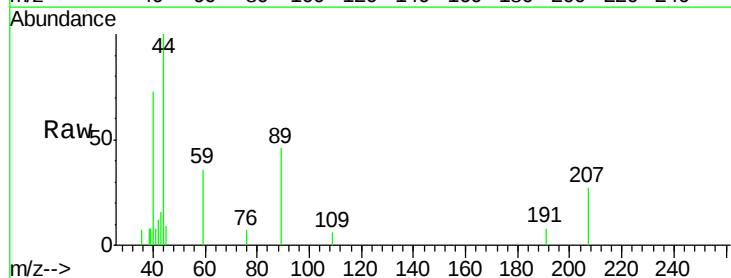
Acq: 25 Jun 2018 19:21

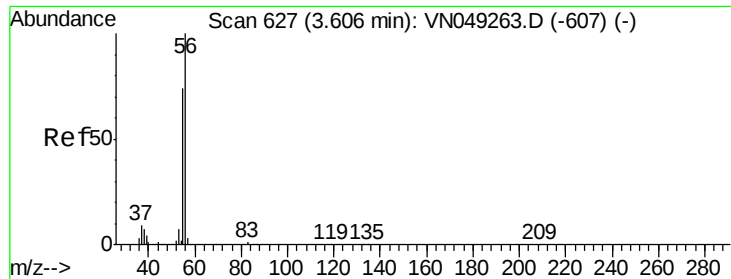
Tgt Ion: 59 Resp: 1562

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#





#13

Acrolein

Concen: 0.38 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

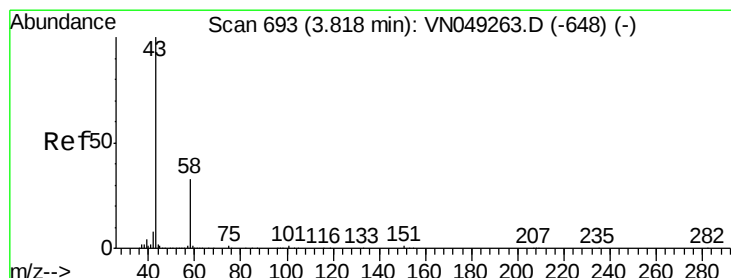
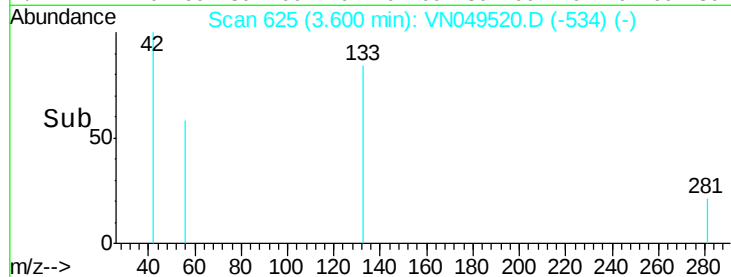
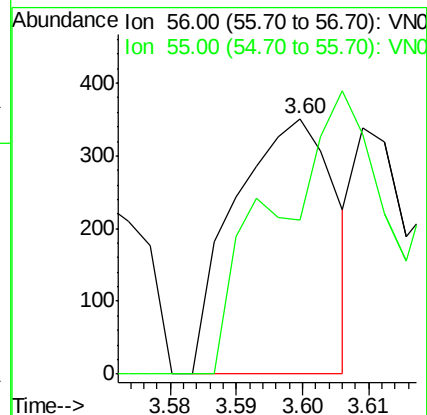
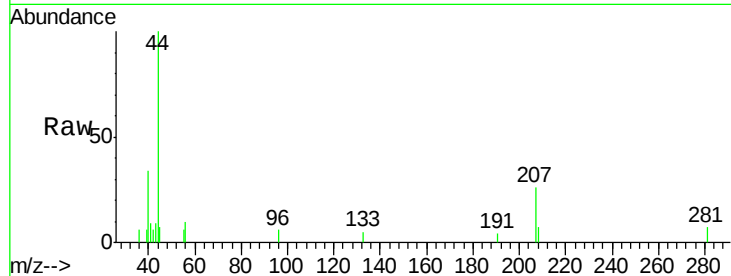
PB110537ZHE#05

Tot Ion: 56 Resp: 371

Ion Ratio Lower Upper

56 100

55 118.3 57.1 85.7#



#16

Acetone

Concen: 15.21 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049520.D

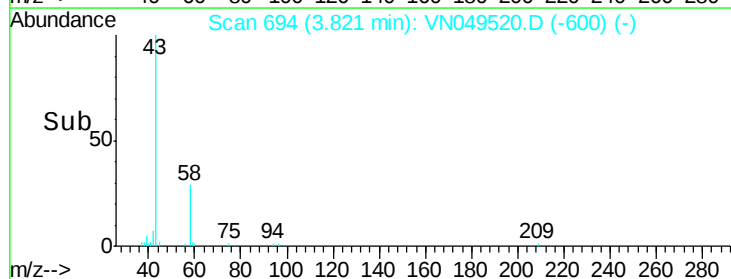
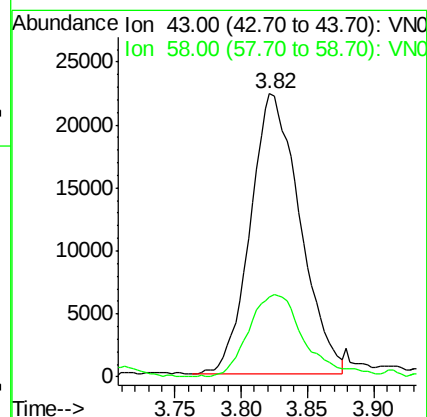
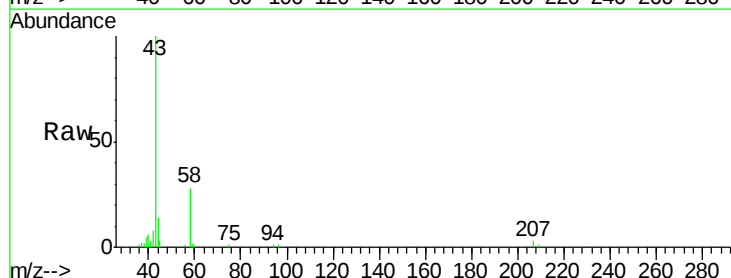
Acq: 25 Jun 2018 19:21

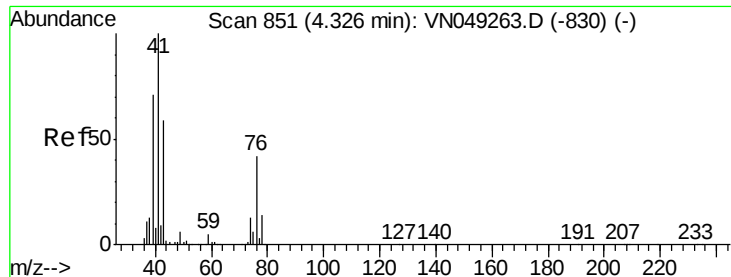
Tgt Ion: 43 Resp: 57922

Ion Ratio Lower Upper

43 100

58 28.6 22.4 33.6

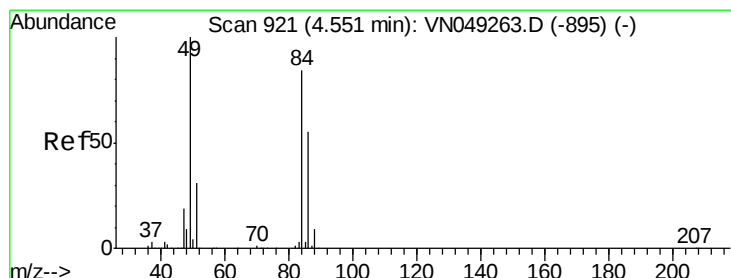
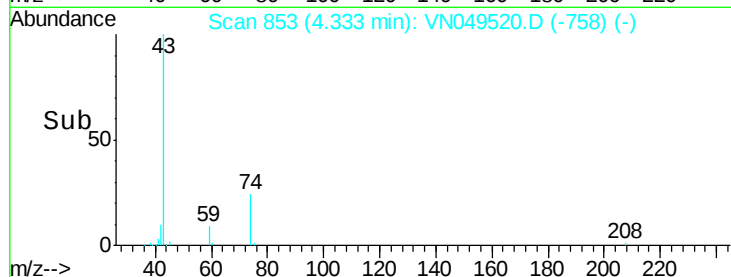
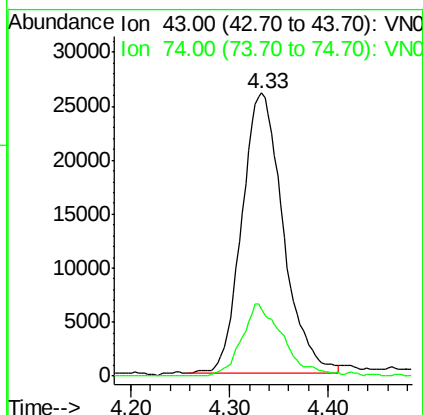
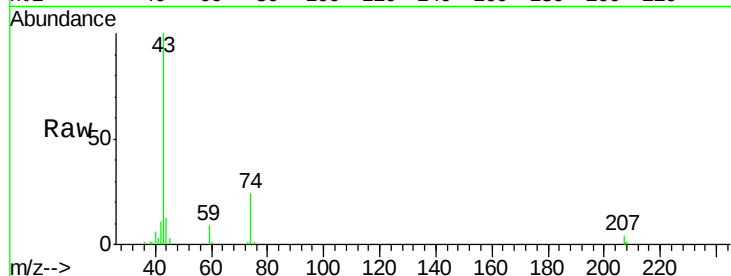




#18
Methvl Acetate
Concen: 6.52 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

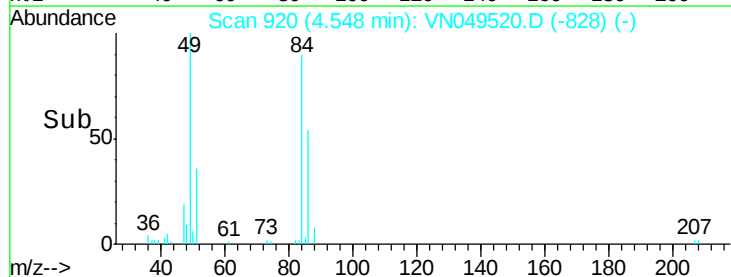
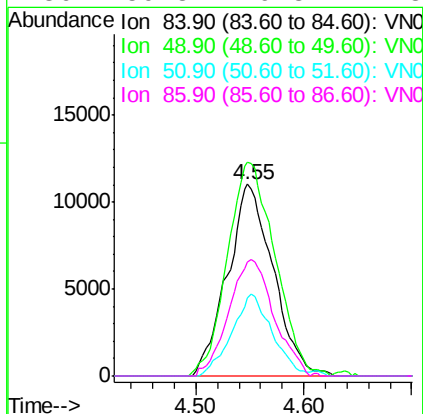
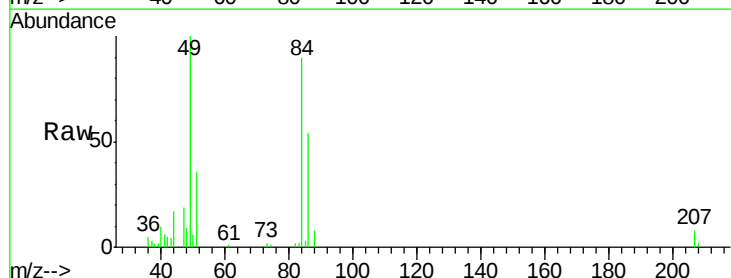
Instrument :
MSVOA_N
ClientSampleId :
PB110537ZHE#05

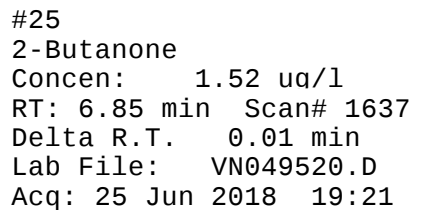
Tot Ion: 43 Resp: 75674
Ion Ratio Lower Upper
43 100
74 25.6 17.4 26.0



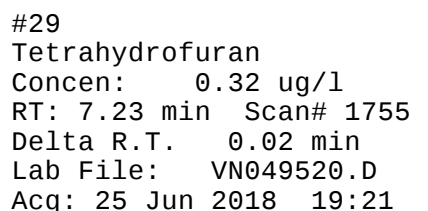
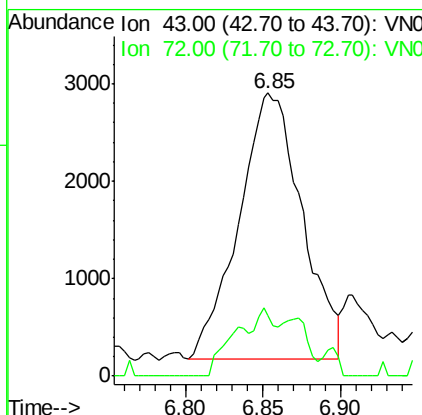
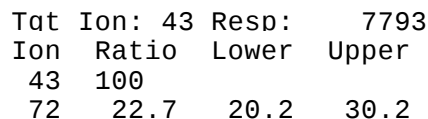
#20
Methylene Chloride
Concen: 2.04 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

Tgt Ion: 84 Resp: 32512
Ion Ratio Lower Upper
84 100
49 111.5 106.9 160.3
51 40.6 32.7 49.1
86 59.8 49.8 74.8

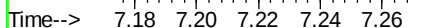
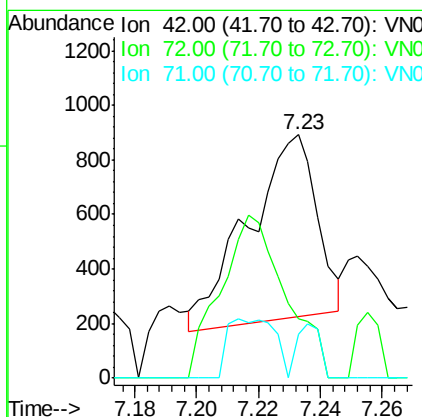


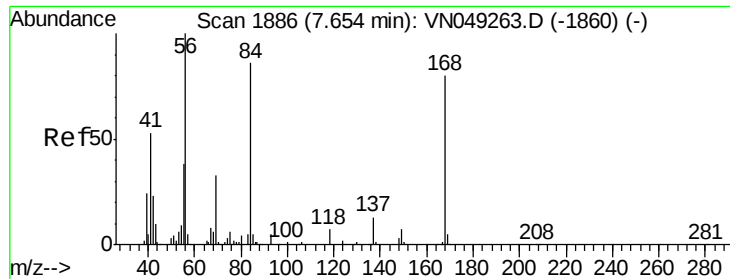


Instrument :
MSVOA_N
ClientSampleId :
PB110537ZHE#05



Tgt	Ion: 42	Resp:	1047
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.2	48.4#
71	9.9	30.5	45.7#

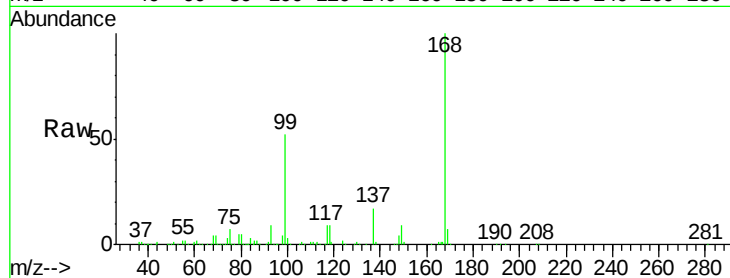




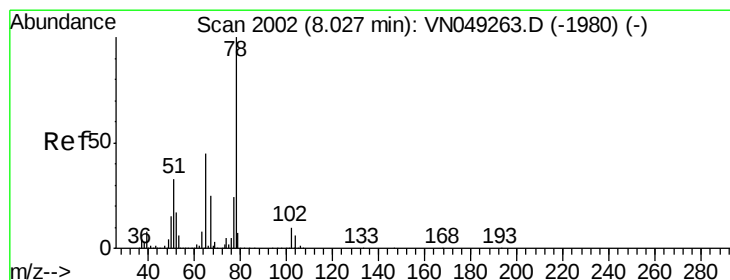
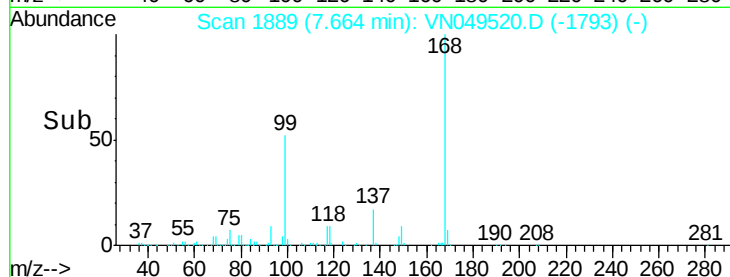
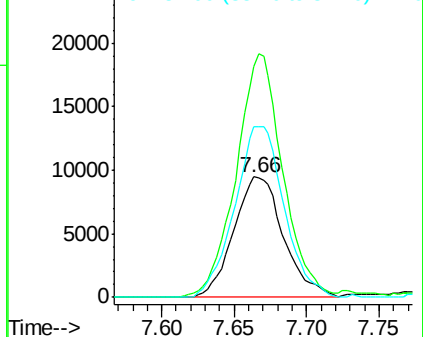
#31
Cyclohexane
Concen: 0.80 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

Instrument :
MSVOA_N
ClientSampleId :
PB110537ZHE#05

Tot Ion: 56 Resp: 22586
Ion Ratio Lower Upper
56 100
69 188.9 25.0 37.4#
84 141.8 64.6 96.8#

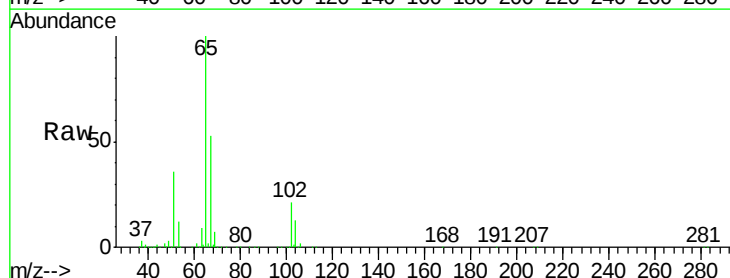


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

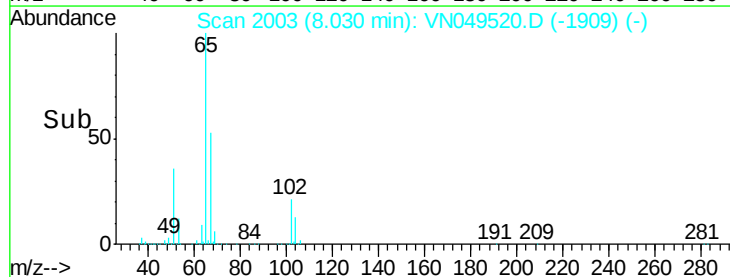
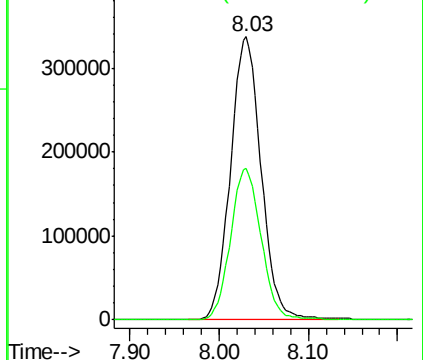


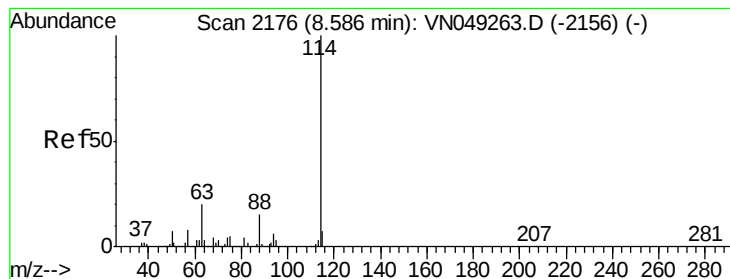
#33
1,2-Dichloroethane-d4
Concen: 51.17 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

Tgt Ion: 65 Resp: 802686
Ion Ratio Lower Upper
65 100
67 53.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#05

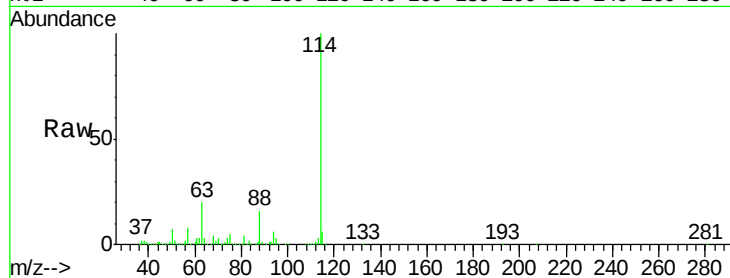
Tot Ion:114 Resp: 1880988

Ion Ratio Lower Upper

114 100

63 20.2 0.0 44.4

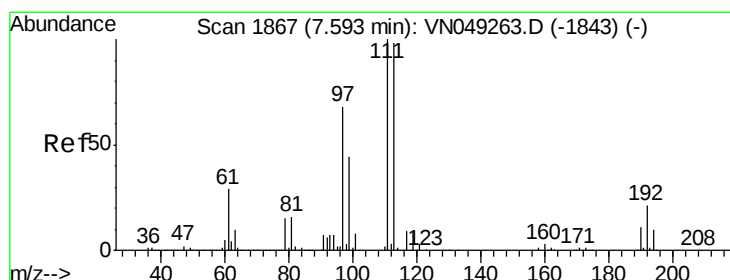
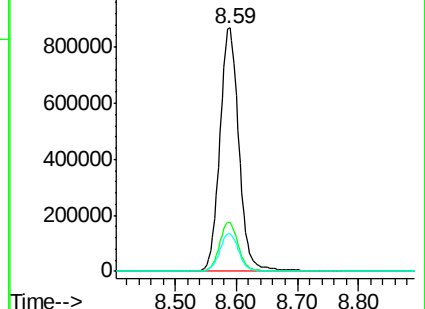
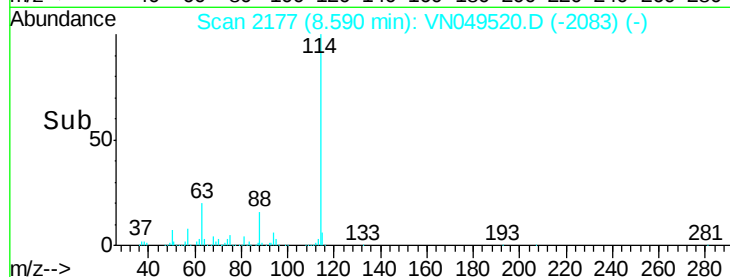
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 45.80 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

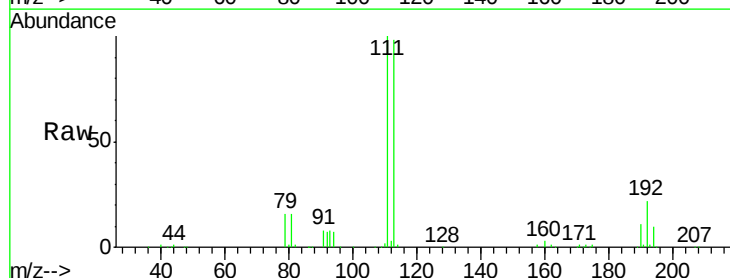
Tgt Ion:113 Resp: 696910

Ion Ratio Lower Upper

113 100

111 102.9 82.4 123.6

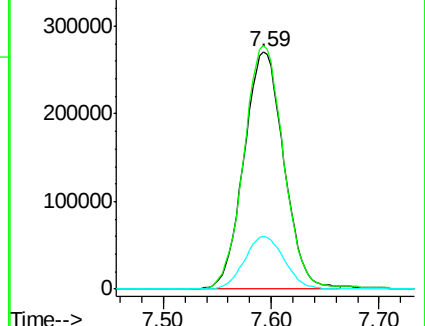
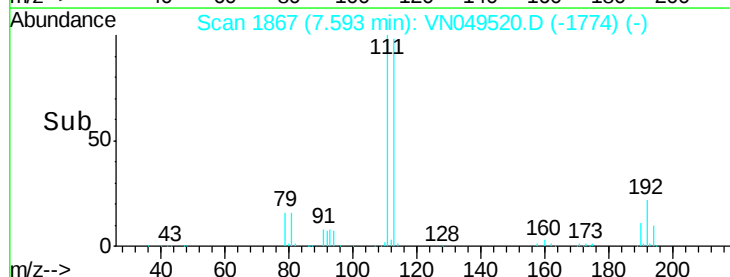
192 22.2 15.0 22.6

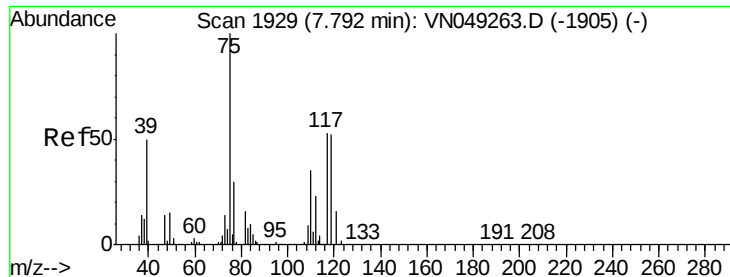


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.87 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#05

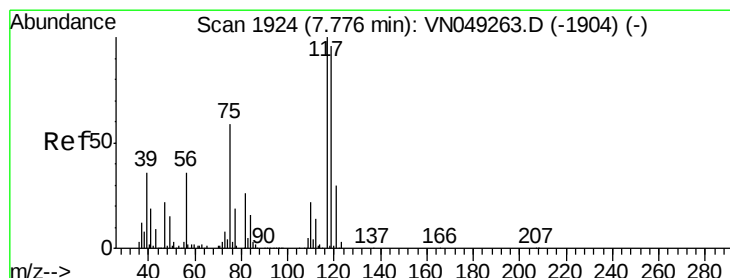
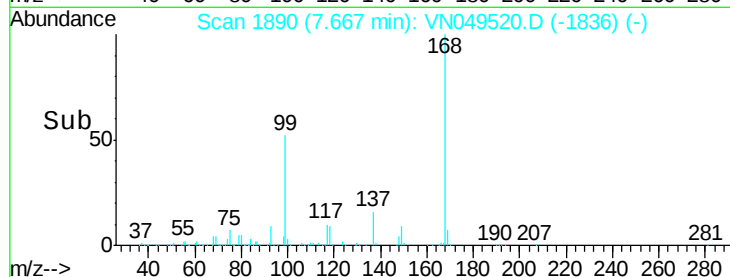
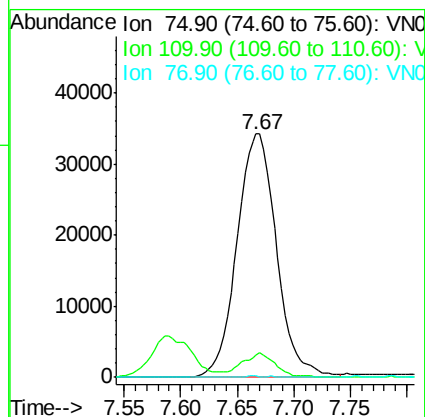
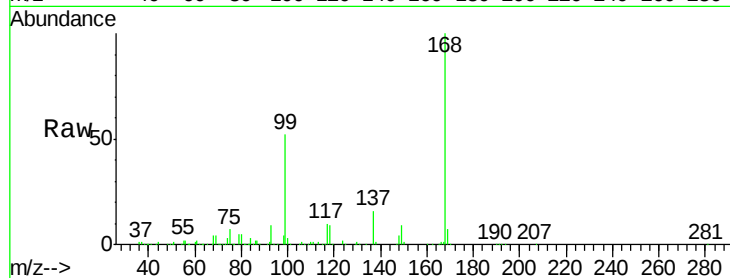
Tot Ion: 75 Resp: 83420

Ion Ratio Lower Upper

75 100

110 7.9 17.0 50.9#

77 0.1 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.83 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

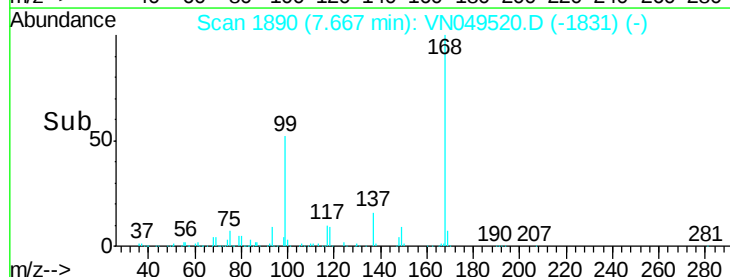
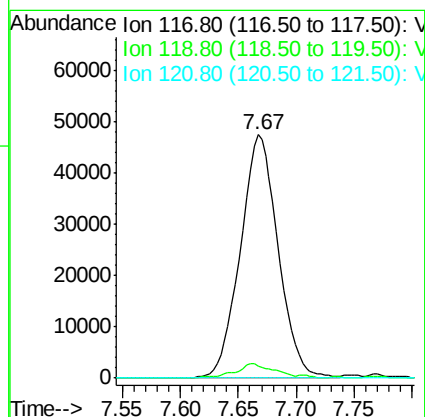
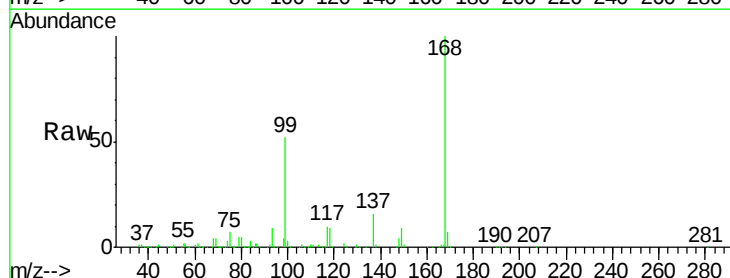
Tgt Ion: 117 Resp: 107750

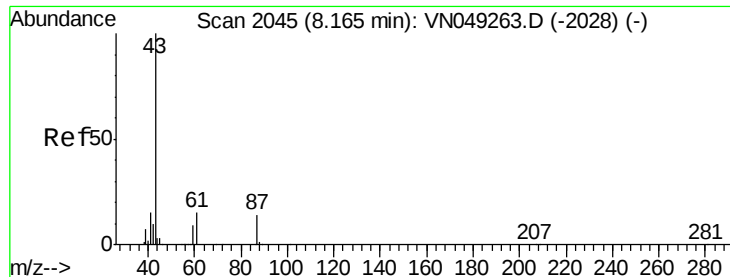
Ion Ratio Lower Upper

117 100

119 5.0 75.6 113.4#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 8.82 ug/l

RT: 8.22 min Scan# 2063

Delta R.T. 0.06 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#05

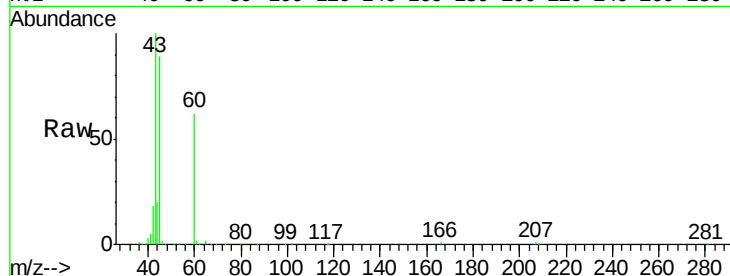
Tot Ion: 43 Resp: 197582

Ion Ratio Lower Upper

43 100

61 0.3 14.2 21.4#

87 0.0 9.4 14.0#

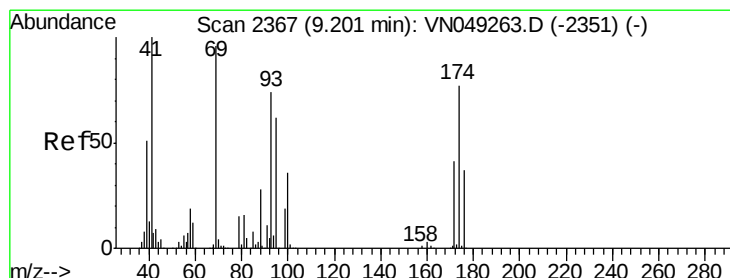
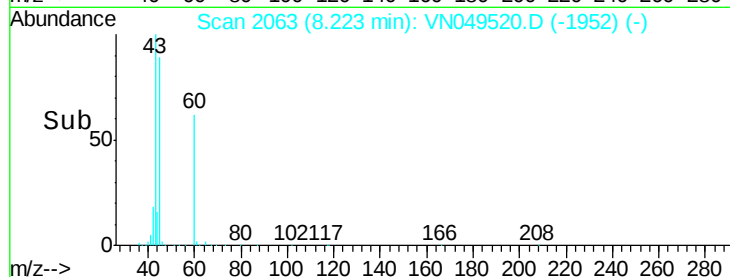
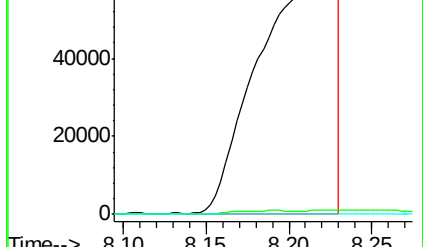


Abundance Ion 43.00 (42.70 to 43.70): VN049520.D (-1952) (-)

Ion 61.00 (60.70 to 61.70): VN049520.D (-1952) (-)

Ion 87.00 (86.70 to 87.70): VN049520.D (-1952) (-)

Time-->



#49

1,4-Dioxane

Concen: 2.08 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.01 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

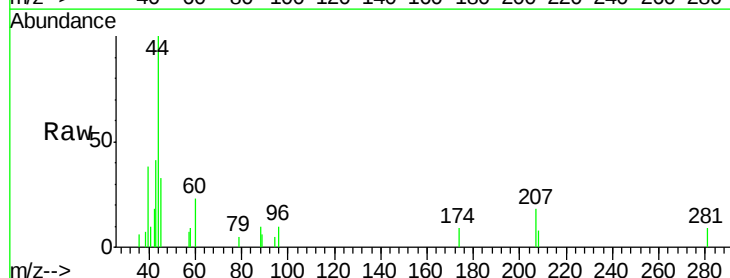
Tgt Ion: 88 Resp: 303

Ion Ratio Lower Upper

88 100

43 199.7 30.9 46.3#

58 144.9 58.9 88.3#

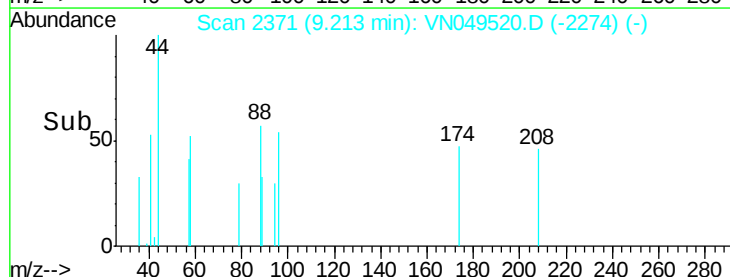
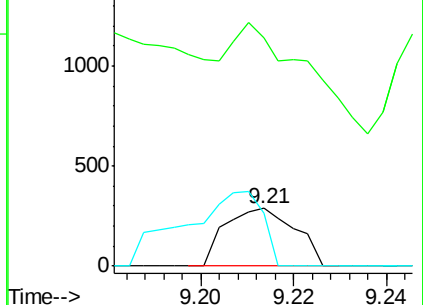


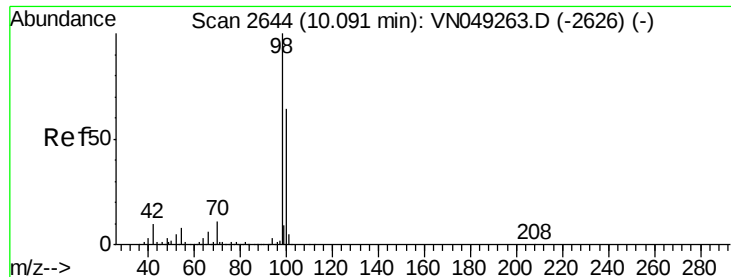
Abundance Ion 88.00 (87.70 to 88.70): VN049520.D (-2274) (-)

Ion 43.00 (42.70 to 43.70): VN049520.D (-2274) (-)

Ion 58.00 (57.70 to 58.70): VN049520.D (-2274) (-)

Time-->

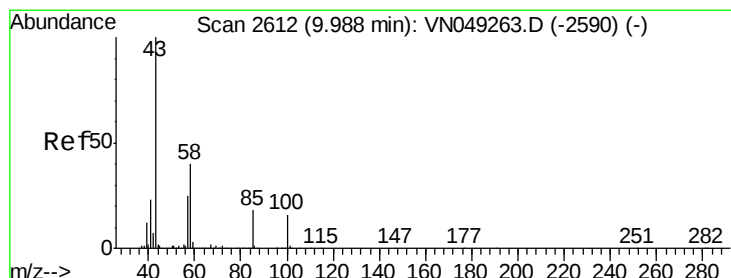
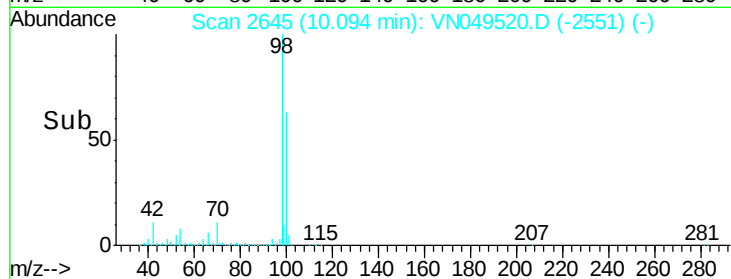
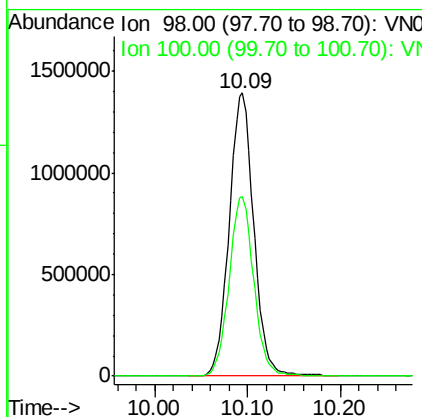
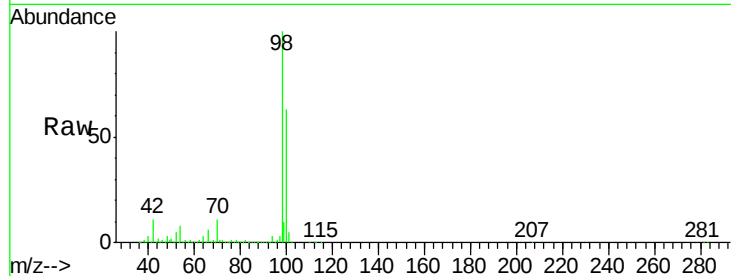




#50
Toluene-d8
Concen: 44.14 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

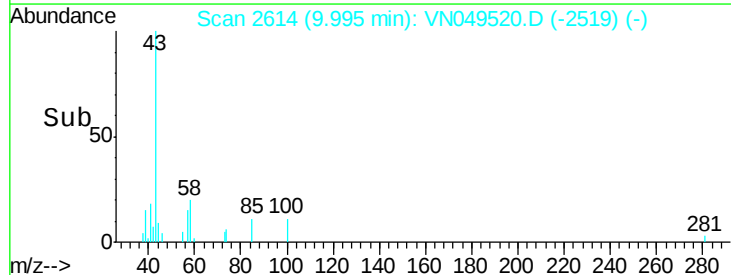
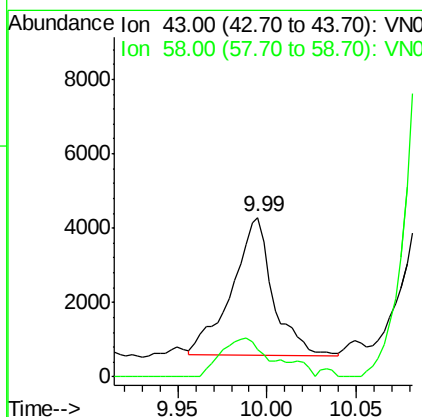
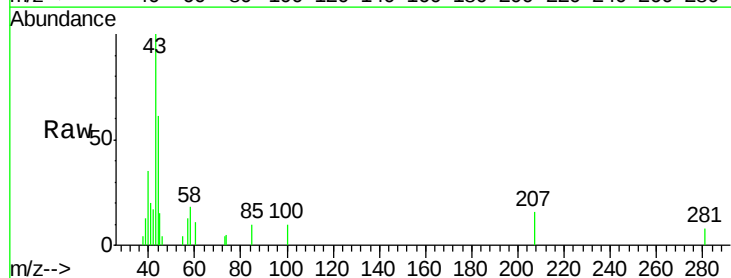
Instrument :
MSVOA_N
ClientSampleId :
PB110537ZHE#05

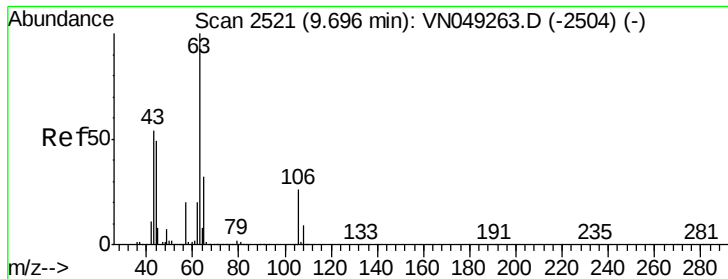
Tot Ion: 98 Resp: 2557508
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.50 ug/l
RT: 9.99 min Scan# 2614
Delta R.T. 0.01 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

Tgt Ion: 43 Resp: 5925
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.6





#58

2-Chloroethyl Vinyl ether

Concen: 14.35 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

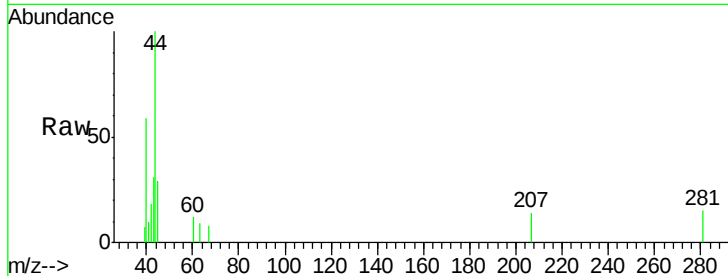
PB110537ZHE#05

Tot Ion: 63 Resp: 176

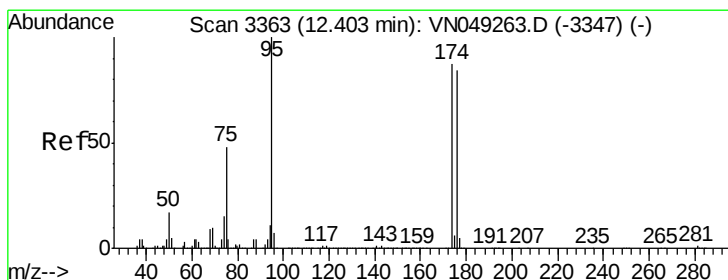
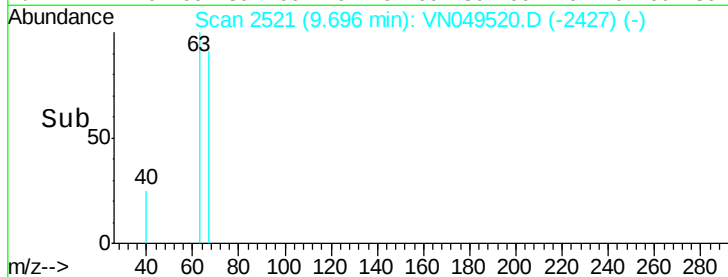
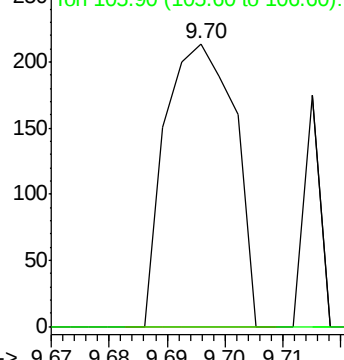
Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049520.D (-2427) (-)



#62

4-Bromofluorobenzene

Concen: 32.18 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

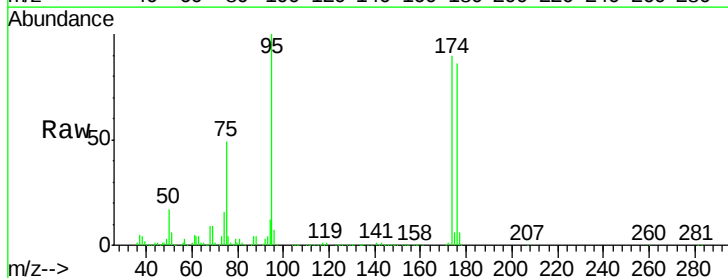
Tgt Ion: 95 Resp: 616500

Ion Ratio Lower Upper

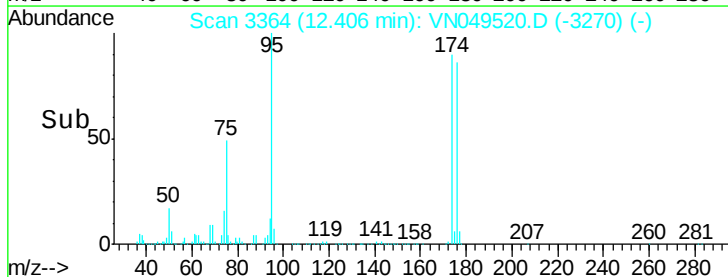
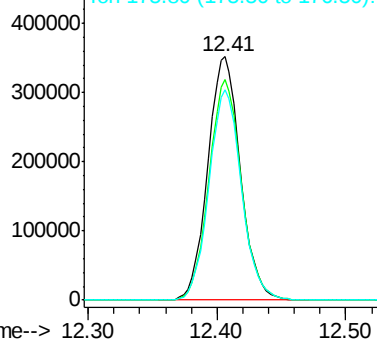
95 100

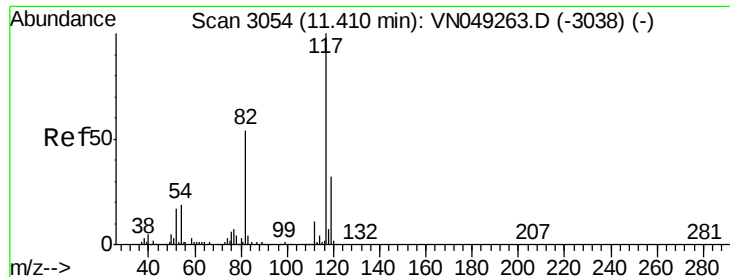
174 90.2 0.0 165.6

176 86.2 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049520.D (-3270) (-)

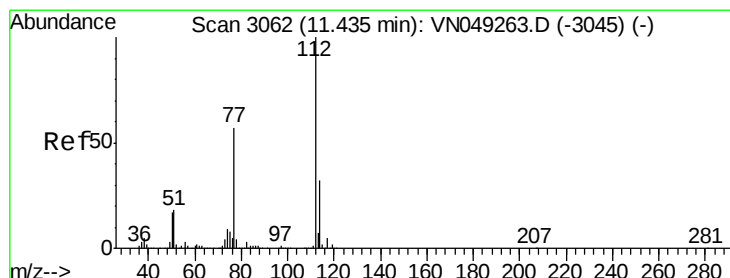
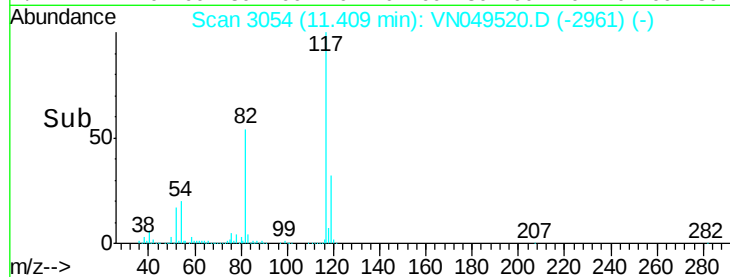
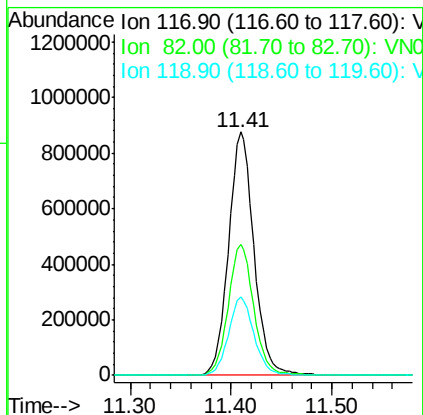
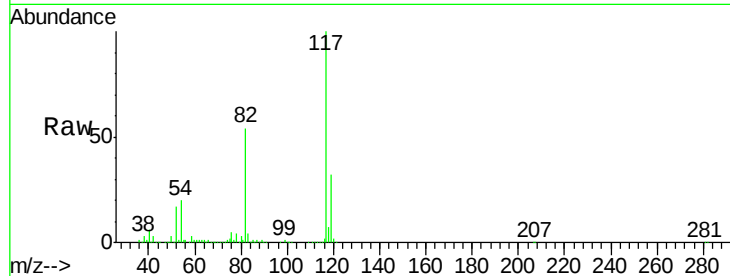




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

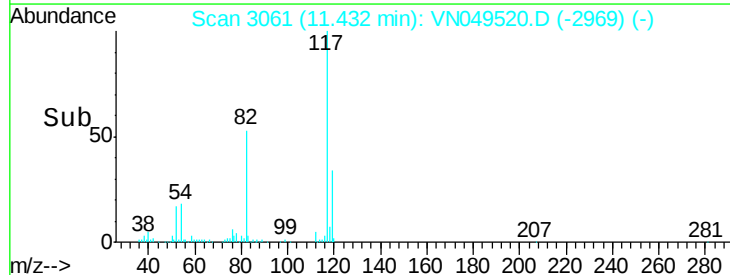
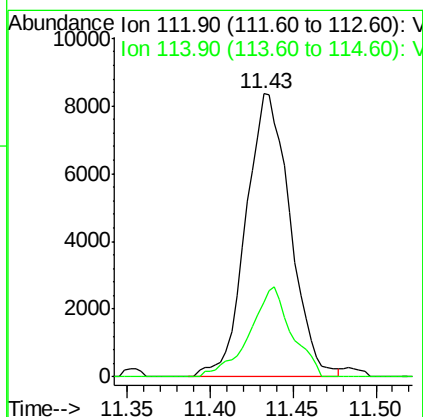
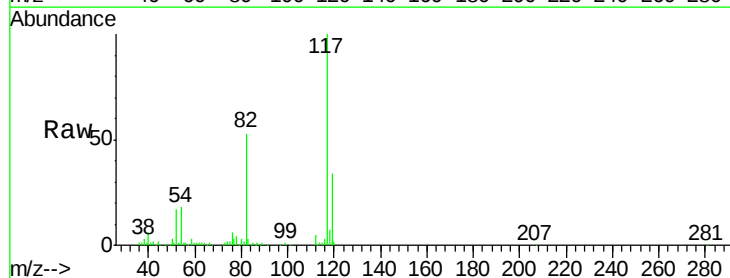
Instrument :
MSVOA_N
ClientSampleId :
PB110537ZHE#05

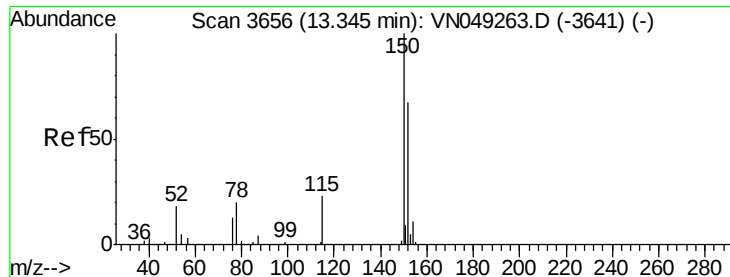
Tot Ion:117 Resp: 1539816
Ion Ratio Lower Upper
117 100
82 53.9 45.9 68.9
119 32.2 25.5 38.3



#65
Chlorobenzene
Concen: 0.39 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

Tgt Ion:112 Resp: 15534
Ion Ratio Lower Upper
112 100
114 26.3 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB110537ZHE#05

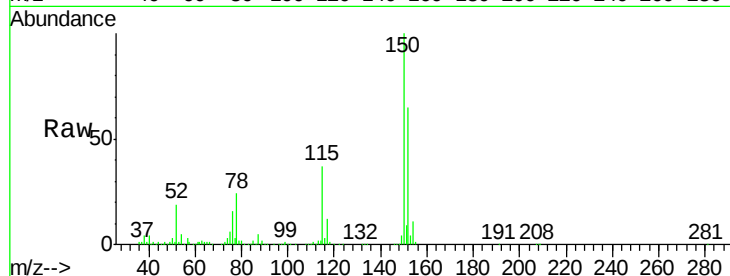
Tot Ion:152 Resp: 396979

Ion Ratio Lower Upper

152 100

115 56.4 28.7 86.1

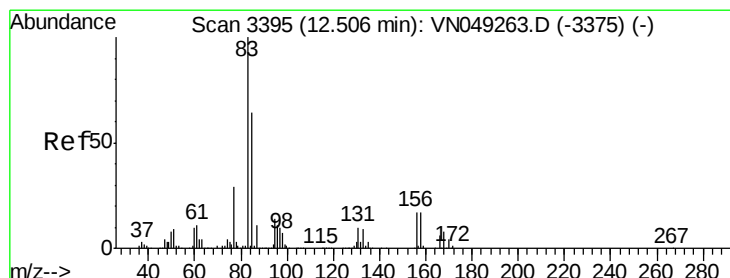
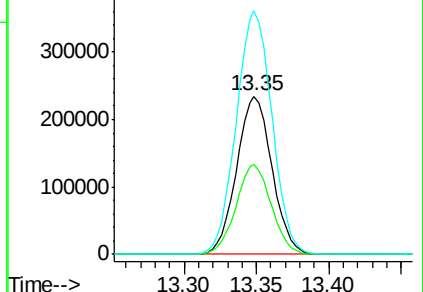
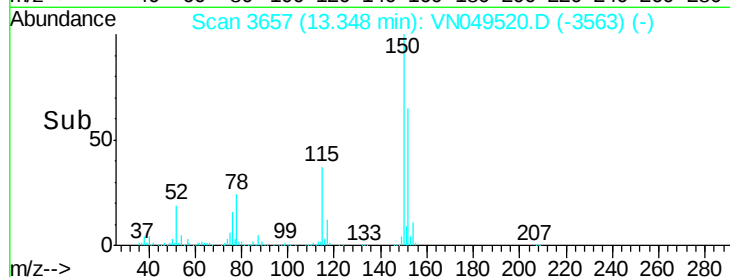
150 156.2 0.0 351.0



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: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

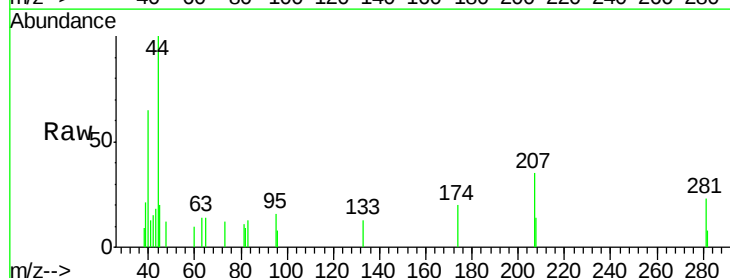
Tgt Ion: 83 Resp: 210

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

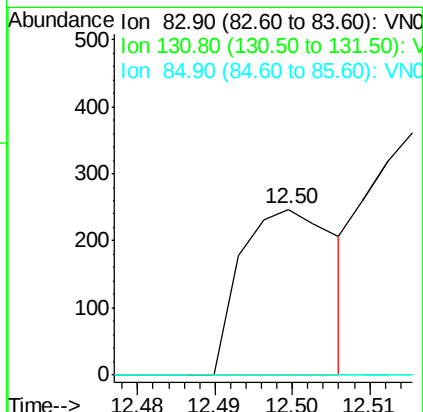
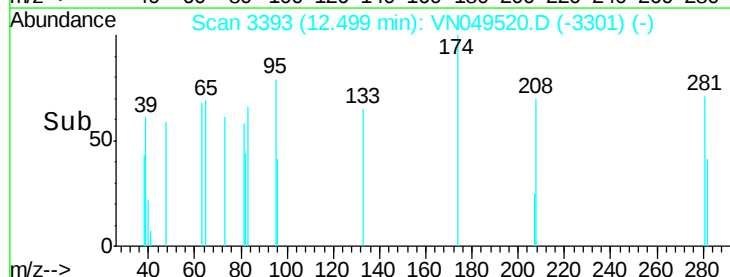
85 0.0 32.0 96.0#

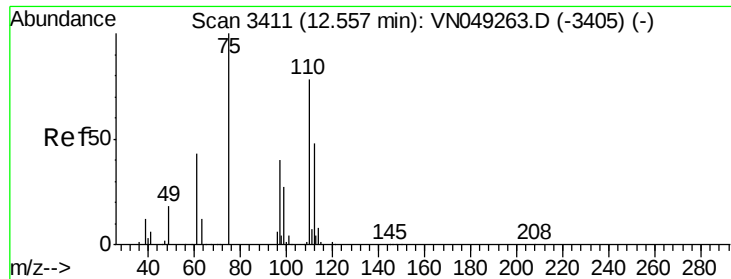


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

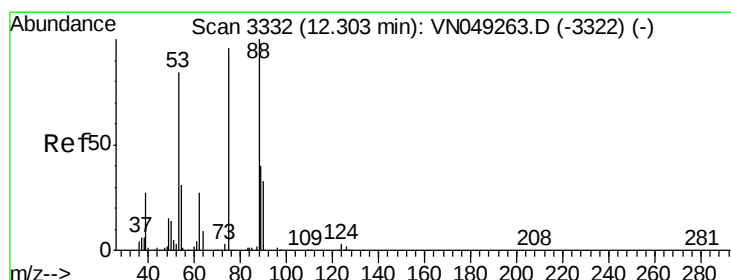
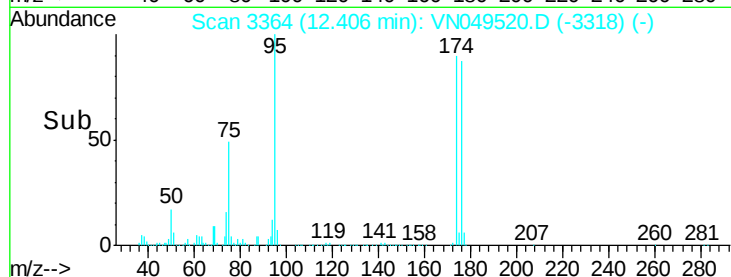
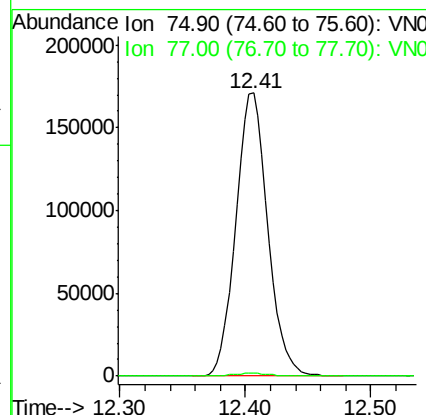
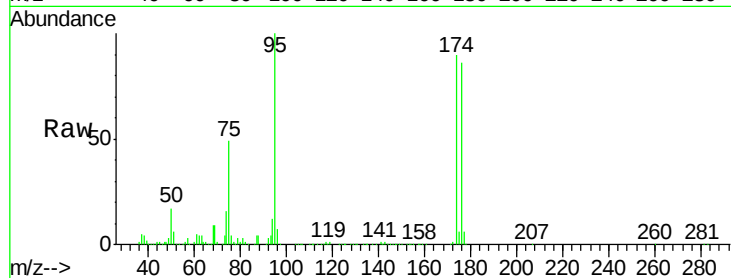




#76
 1,2,3-Trichloropropane
 Concen: 44.54 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. -0.15 min
 Lab File: VN049520.D
 Acq: 25 Jun 2018 19:21

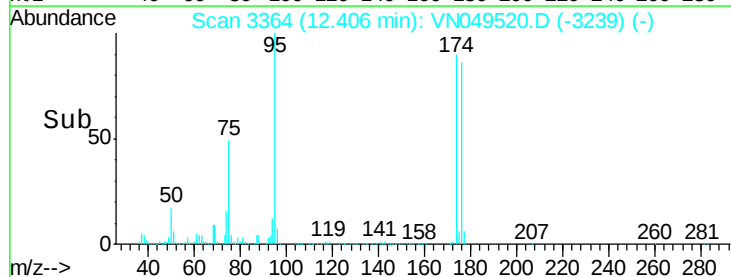
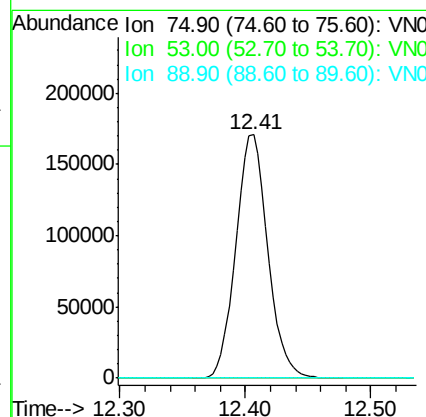
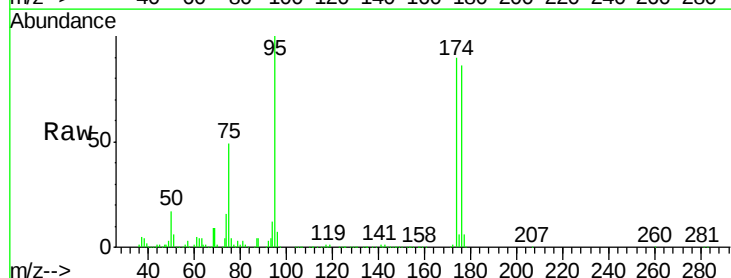
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110537ZHE#05

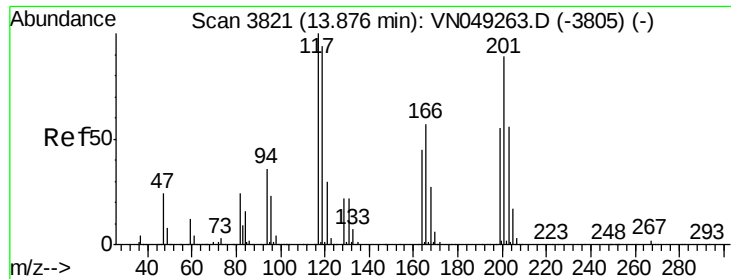
Tot Ion: 75 Resp: 301672
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 140.76 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. 0.10 min
 Lab File: VN049520.D
 Acq: 25 Jun 2018 19:21

Tgt Ion: 75 Resp: 301672
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.7 124.1#
 89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.98 min Scan# 3855

Delta R.T. 0.11 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

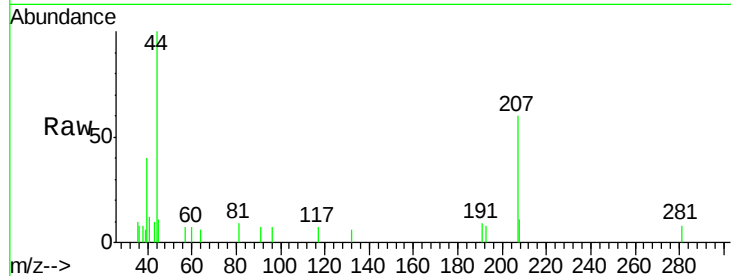
PB110537ZHE#05

Tot Ion:117 Resp: 66

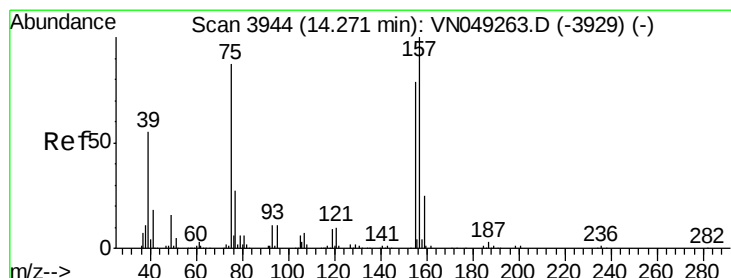
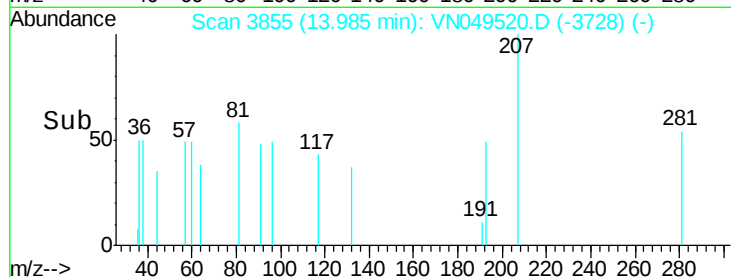
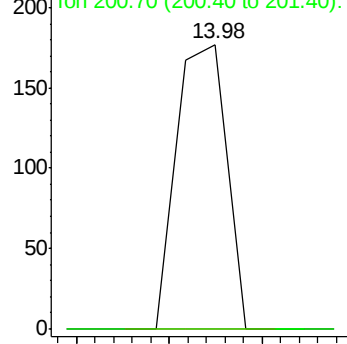
Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.32 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049520.D

Acq: 25 Jun 2018 19:21

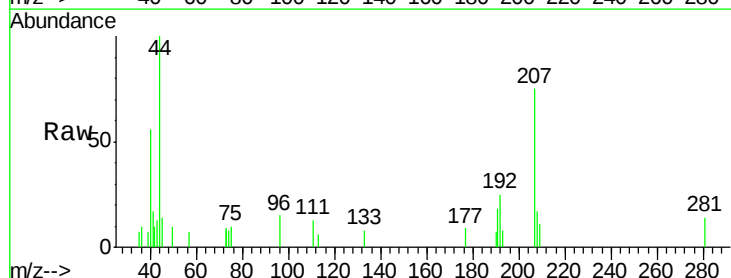
Tgt Ion: 75 Resp: 394

Ion Ratio Lower Upper

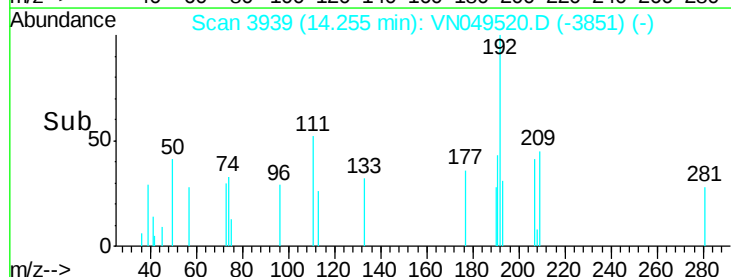
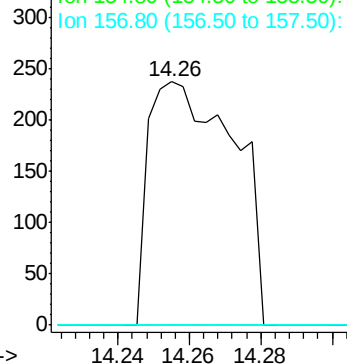
75 100

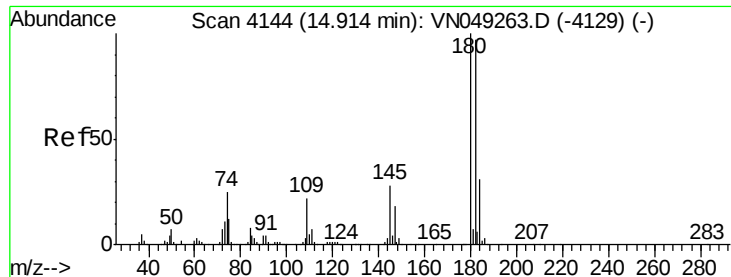
155 0.0 38.8 116.3#

157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): V

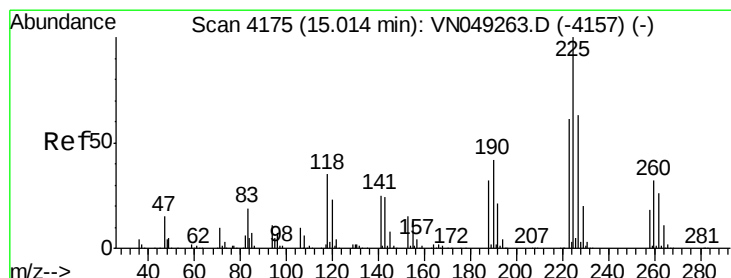
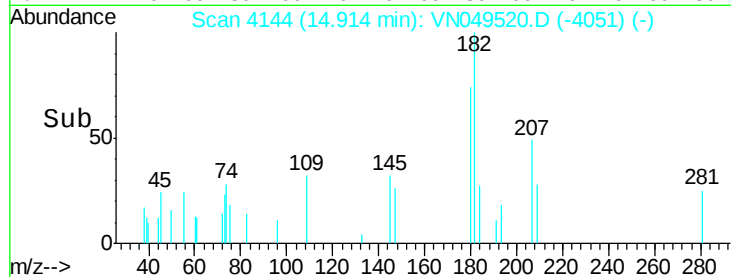
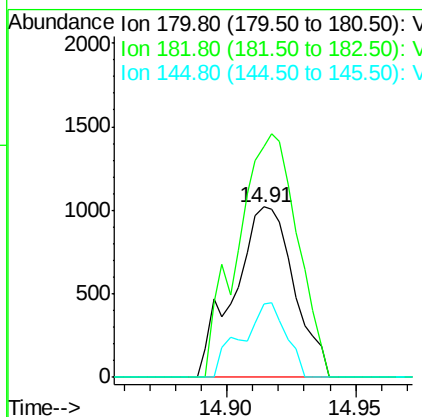
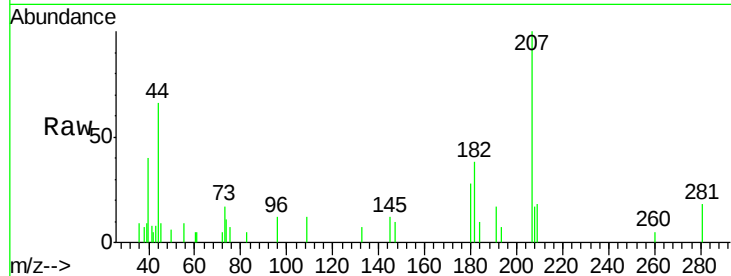




#93
 1,2,4-Trichlorobenzene
 Concen: 4.96 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049520.D
 Acq: 25 Jun 2018 19:21

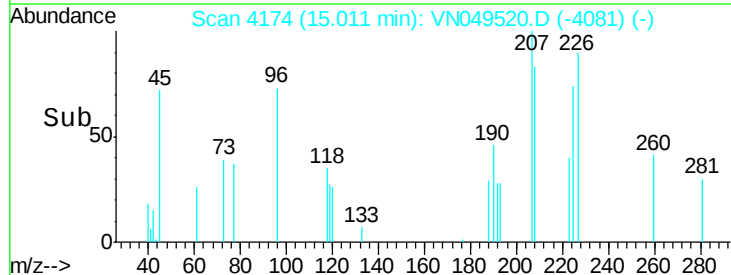
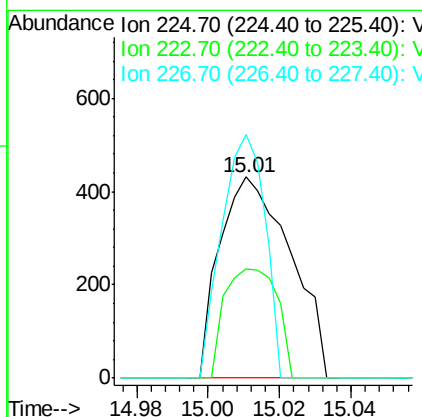
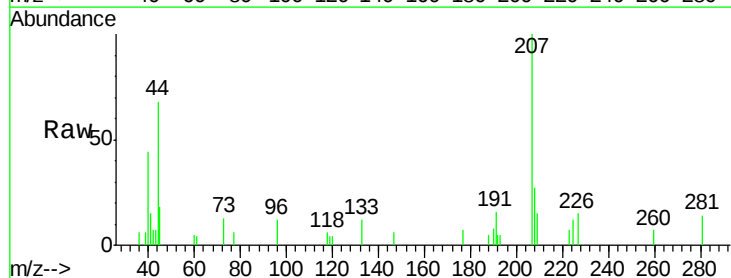
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110537ZHE#05

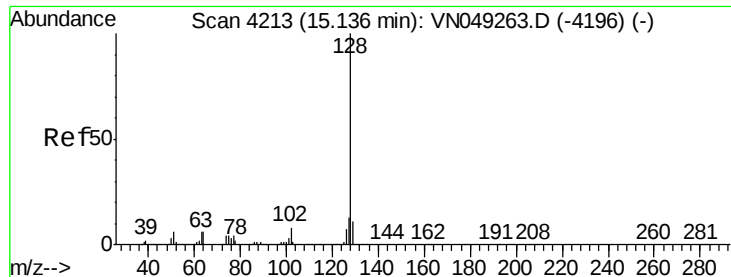
Tot Ion:180 Resp: 1655
 Ion Ratio Lower Upper
 180 100
 182 143.0 46.9 140.8#
 145 32.6 14.7 44.1



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049520.D
 Acq: 25 Jun 2018 19:21

Tgt Ion:225 Resp: 592
 Ion Ratio Lower Upper
 225 100
 223 40.2 32.1 96.3
 227 73.8 31.8 95.3

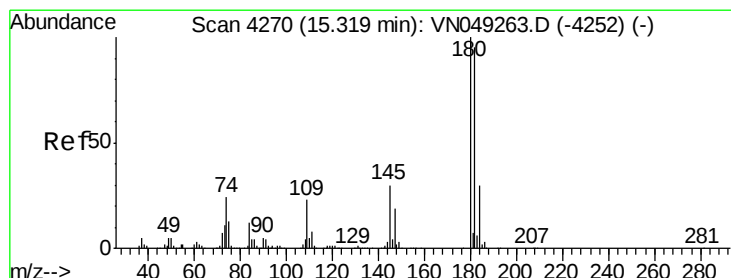
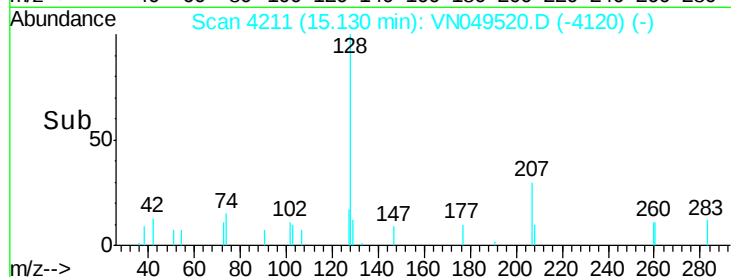
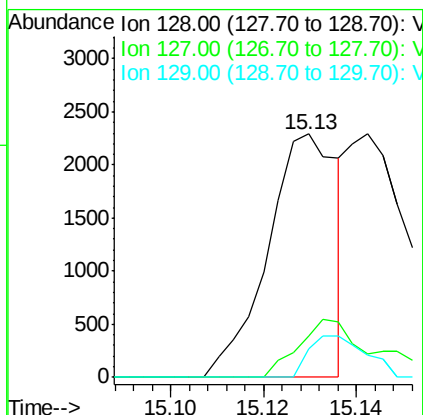
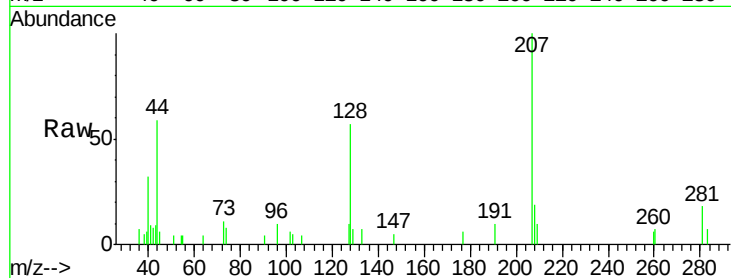




#95
Naphthalene
Concen: 2.30 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

Instrument :
MSVOA_N
ClientSampleId :
PB110537ZHE#05

Tot Ion:128 Resp: 2403
Ion Ratio Lower Upper
128 100
127 24.2 10.6 16.0#
129 13.9 8.5 12.7#



#96
1,2,3-Trichlorobenzene
Concen: 3.68 ug/l
RT: 15.32 min Scan# 4271
Delta R.T. 0.00 min
Lab File: VN049520.D
Acq: 25 Jun 2018 19:21

Tgt Ion:180 Resp: 1619
Ion Ratio Lower Upper
180 100
182 109.2 47.3 141.8
145 45.4 15.6 46.7

