

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070518\
 Data File : VN049722.D
 Acq On : 5 Jul 2018 19:09
 Operator : MD\SY
 Sample : PB110828ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 06 02:13:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1141877	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1961606	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1621640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	627143	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	841878	55.83	ug/l	0.00
Spiked Amount			Recovery	=	111.66%	
35) Dibromofluoromethane	7.59	113	673219	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	
50) Toluene-d8	10.09	98	2581423	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	
62) 4-Bromofluorobenzene	12.40	95	761977	38.88	ug/l	0.00
Spiked Amount			Recovery	=	77.76%	

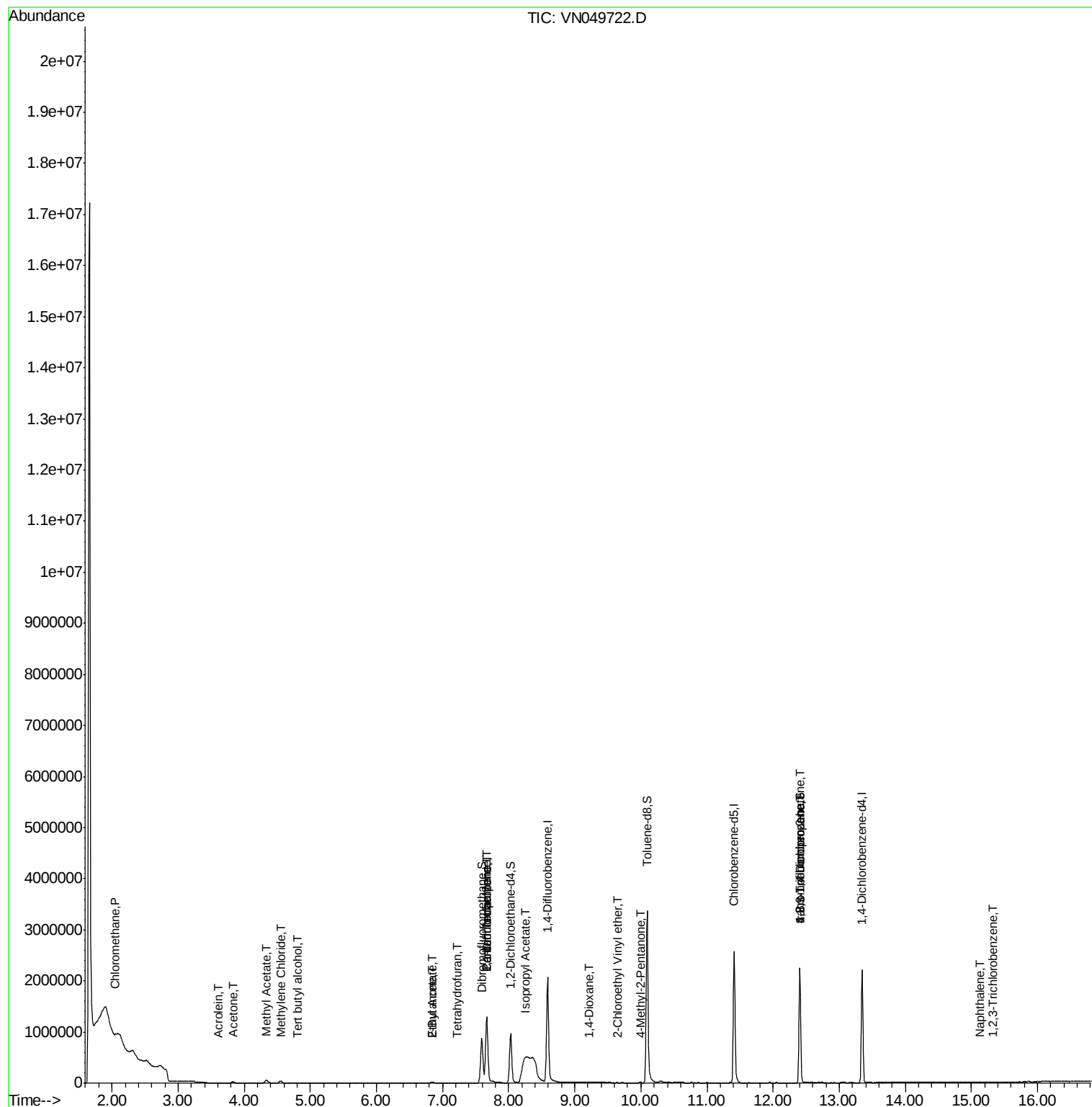
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	4058	0.25	ug/l	99
11) Tert butyl alcohol	4.81	59	259	0.30	ug/l #	72
13) Acrolein	3.61	56	1376	1.70	ug/l #	68
16) Acetone	3.83	43	33582	3.20	ug/l	92
17) Carbon Disulfide	4.04	76	3721	Below Cal	#	75
18) Methyl Acetate	4.33	43	93968	1.78	ug/l	97
20) Methylene Chloride	4.54	84	23194	1.49	ug/l	88
25) 2-Butanone	6.84	43	8327	1.66	ug/l	97
29) Tetrahydrofuran	7.22	42	3273	1.03	ug/l #	47
36) 1,1-Dichloropropene	7.67	75	80747	3.66	ug/l #	49
37) Ethyl Acetate	6.84	43	8527	0.66	ug/l #	80
38) Carbon Tetrachloride	7.67	117	107246	5.00	ug/l #	17
43) Isopropyl Acetate	8.25	43	579708	22.36	ug/l #	63
49) 1,4-Dioxane	9.21	88	106	0.69	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3669	0.29	ug/l #	72
58) 2-Chloroethyl Vinyl ether	9.64	63	29	10.82	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.57	83	32	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	374777	37.26	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	374777	126.56	ug/l #	13
87) 1,3-Dichlorobenzene	13.30	146	112	Below Cal	#	34
88) 1,4-Dichlorobenzene	13.37	146	405	Below Cal	#	25
91) 1,2-Dichlorobenzene	13.66	146	231	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.28	75	118	Below Cal	#	1
95) Naphthalene	15.13	128	408	4.05	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	100	1.66	ug/l #	12

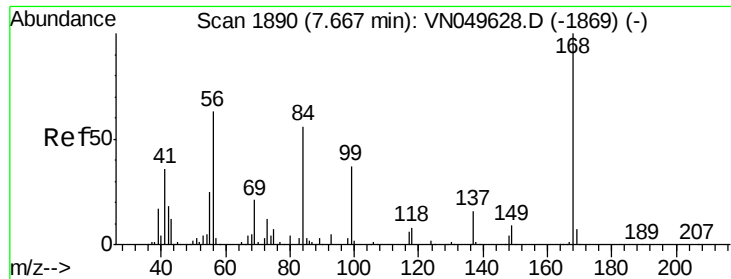
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jul 06 02:13:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 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: VN049722.D

Acq: 5 Jul 2018 19:09

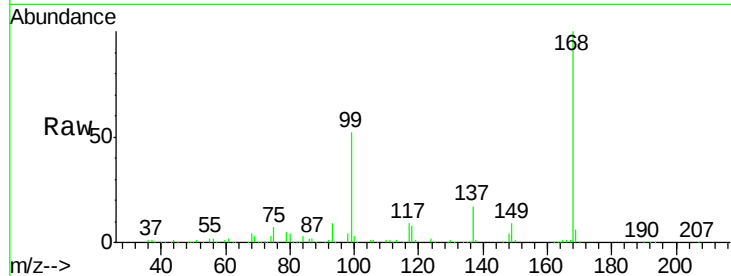
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1141877

Ion Ratio Lower Upper

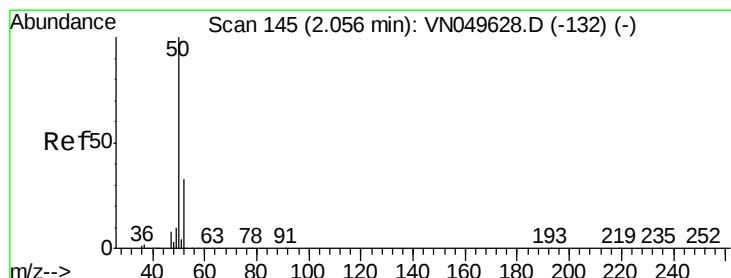
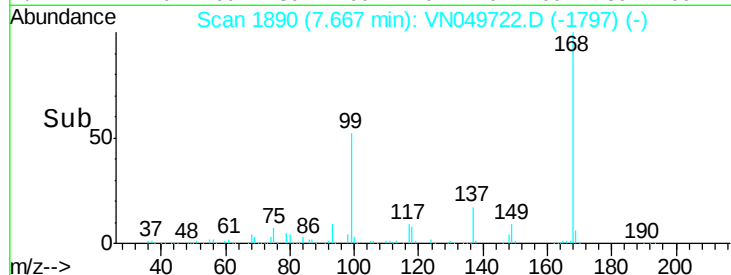
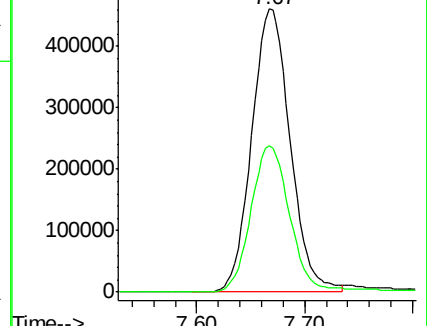
168 100

99 51.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049722.D

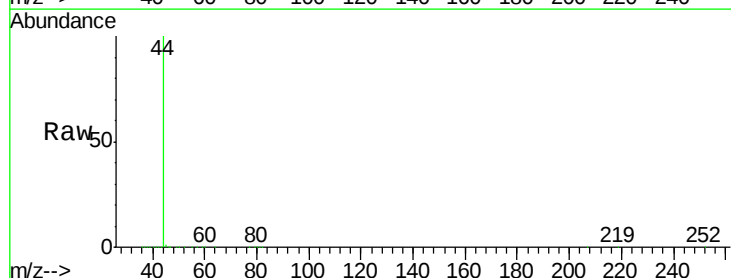
Acq: 5 Jul 2018 19:09

Tgt Ion: 50 Resp: 4058

Ion Ratio Lower Upper

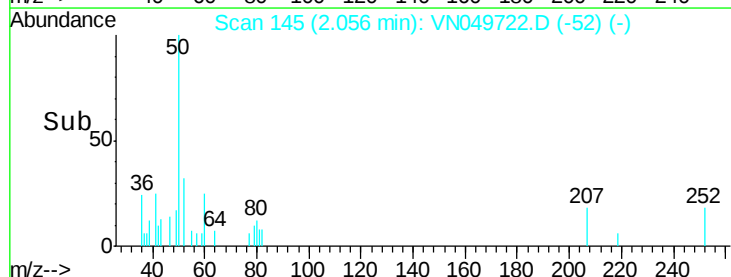
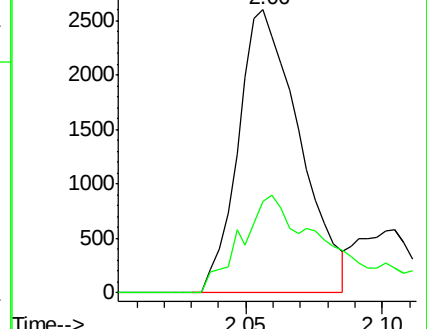
50 100

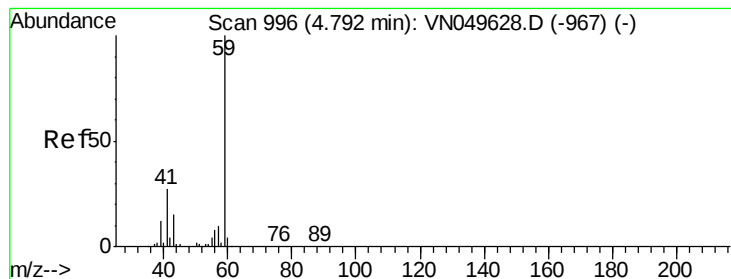
52 32.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN



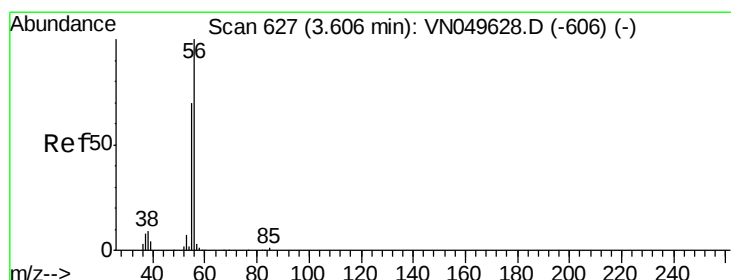
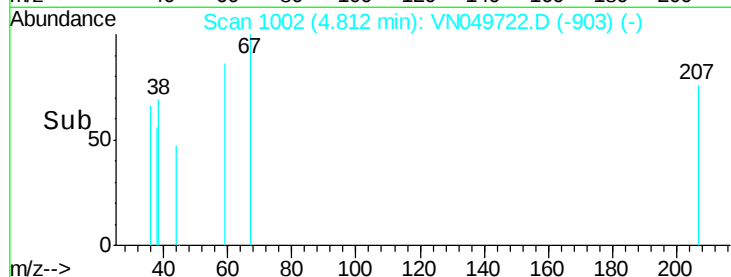
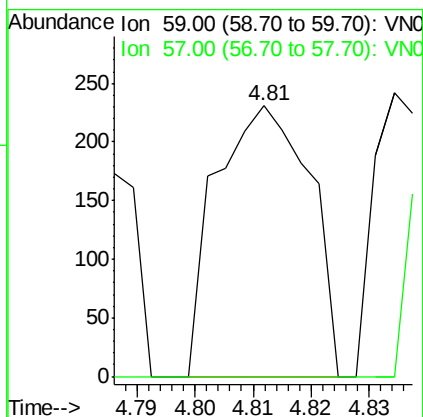
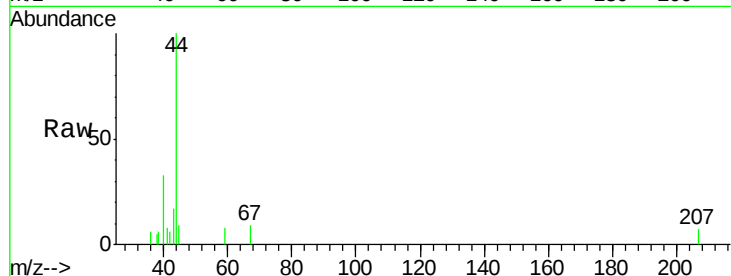


#11

Tert butyl alcohol
 Concen: 0.30 ug/l
 RT: 4.81 min Scan# 1002
 Delta R.T. 0.02 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

Instrument :
 MSVOA_N
 ClientSampled :

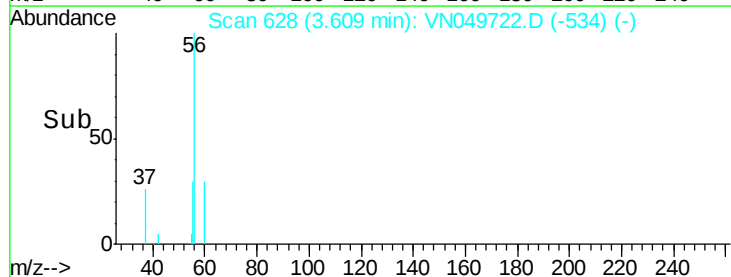
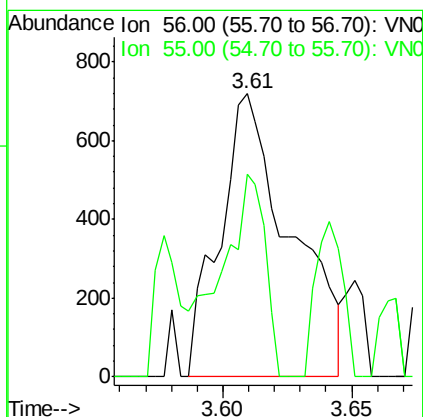
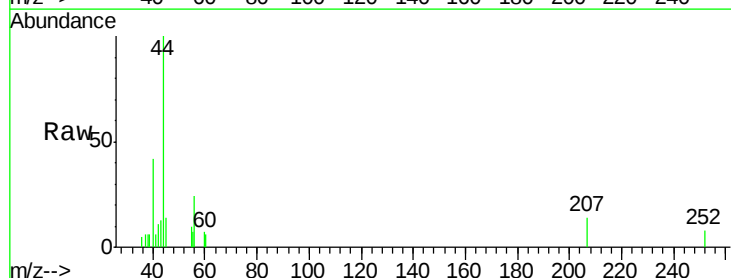
Tot Ion: 59 Resp: 259
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

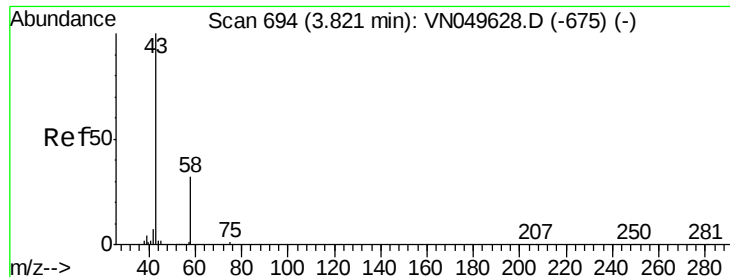


#13

Acrolein
 Concen: 1.70 ug/l
 RT: 3.61 min Scan# 628
 Delta R.T. 0.00 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

Tgt Ion: 56 Resp: 1376
 Ion Ratio Lower Upper
 56 100
 55 43.5 55.8 83.8#





#16

Acetone

Concen: 3.20 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

Instrument :

MSVOA_N

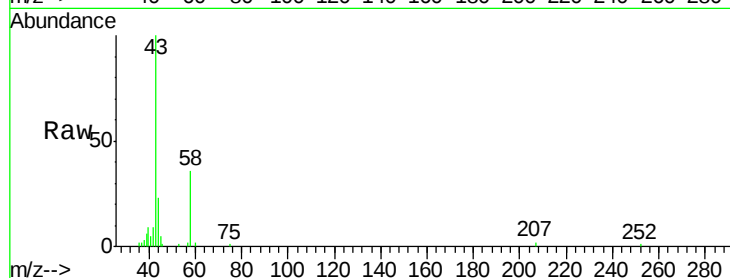
ClientSampled :

Tot Ion: 43 Resp: 33582

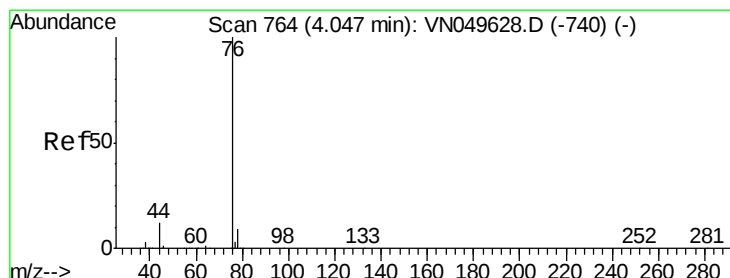
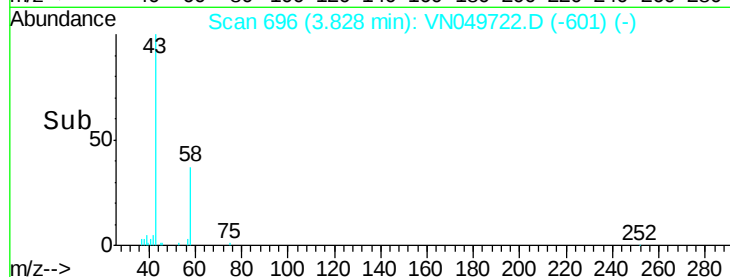
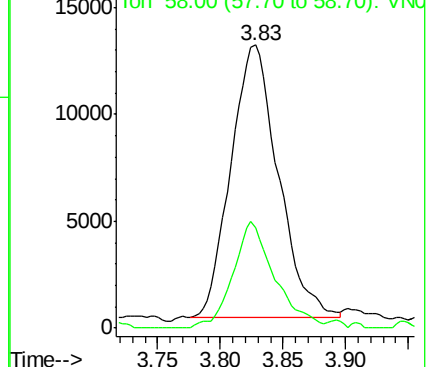
Ion Ratio Lower Upper

43 100

58 37.0 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049722.D (-601) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049722.D

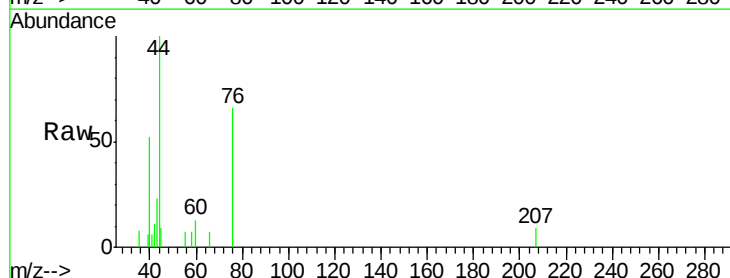
Acq: 5 Jul 2018 19:09

Tgt Ion: 76 Resp: 3721

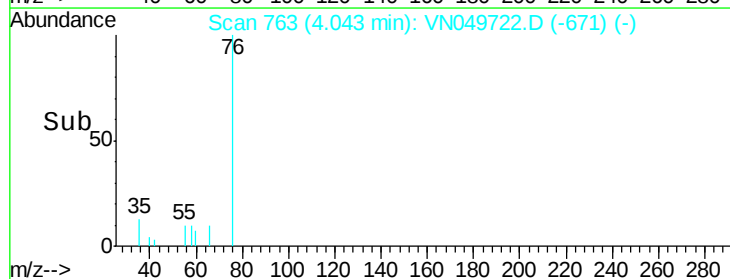
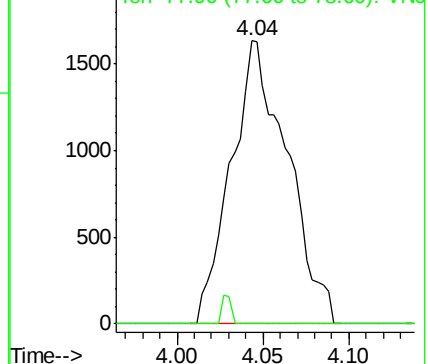
Ion Ratio Lower Upper

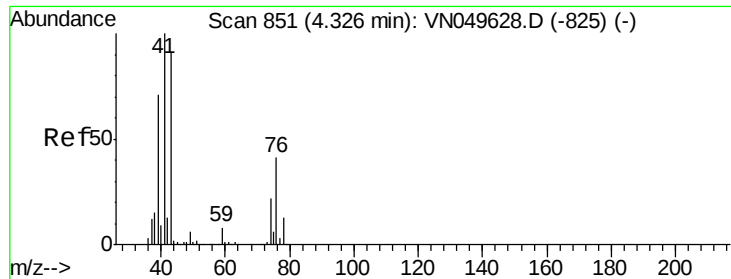
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN049722.D (-671) (-)

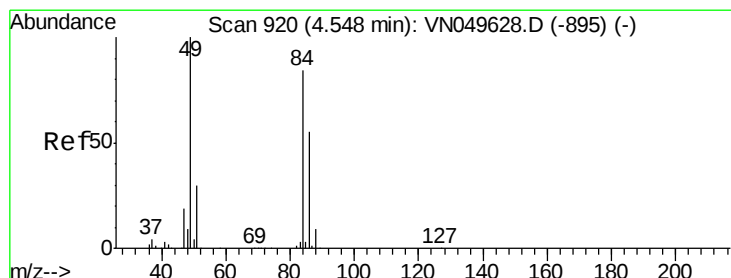
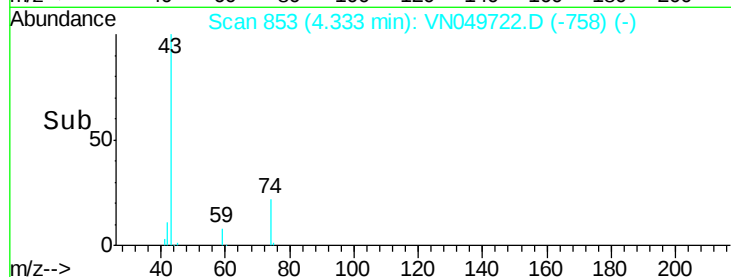
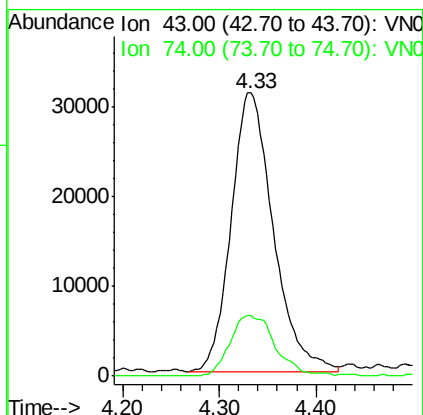
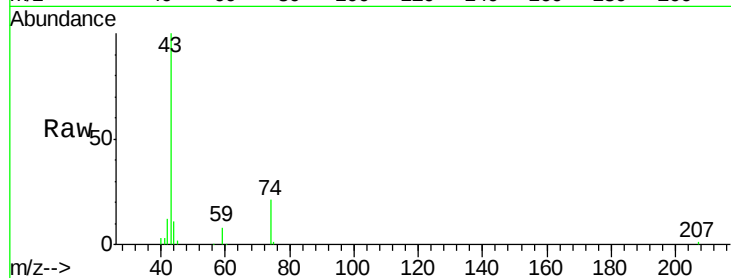




#18
Methvl Acetate
Concen: 1.78 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

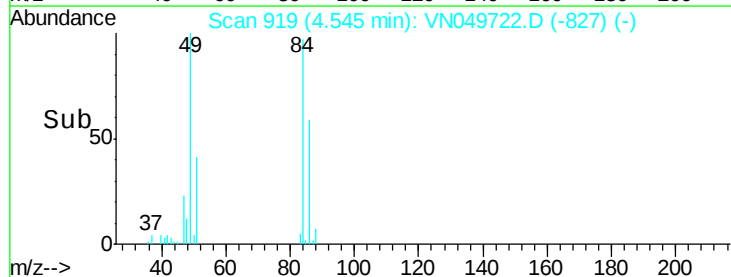
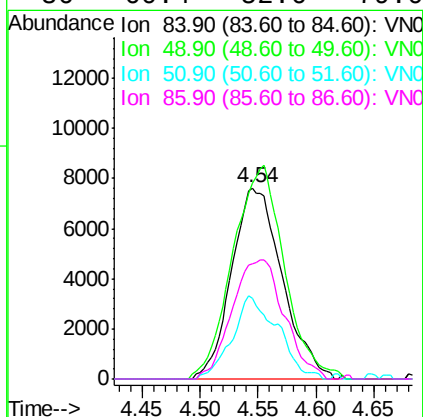
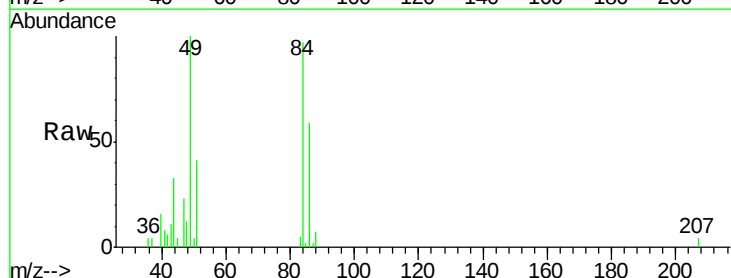
Instrument :
MSVOA_N
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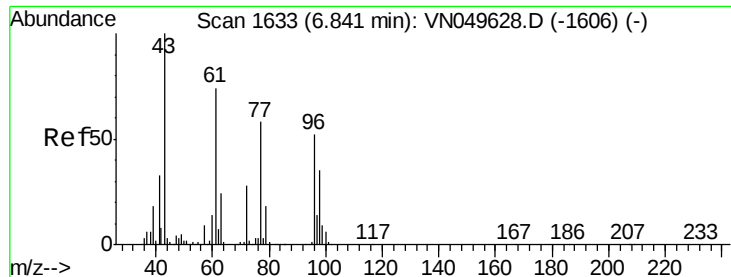
Tot Ion: 43 Resp: 93968
Ion Ratio Lower Upper
43 100
74 23.2 19.8 29.8



#20
Methylene Chloride
Concen: 1.49 ug/l
RT: 4.54 min Scan# 919
Delta R.T. -0.00 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

Tgt Ion: 84 Resp: 23194
Ion Ratio Lower Upper
84 100
49 102.7 95.4 143.2
51 42.4 28.4 42.6
86 60.4 52.6 79.0

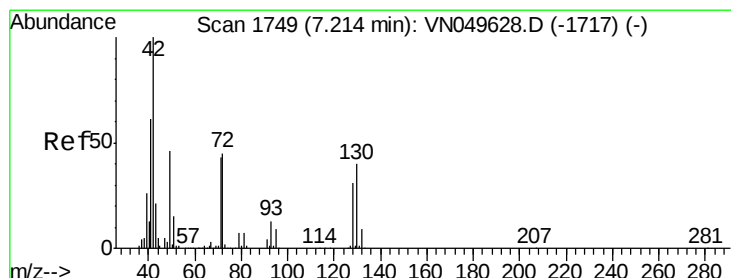
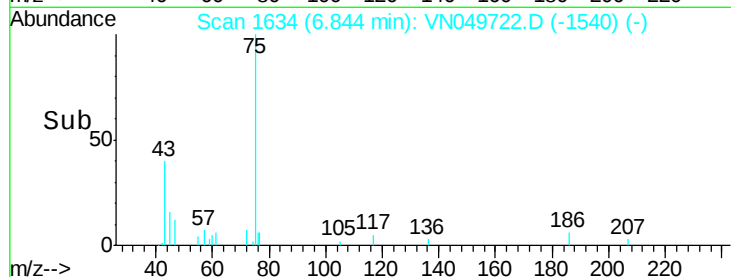
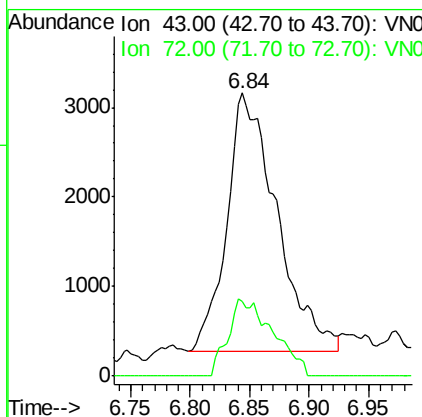
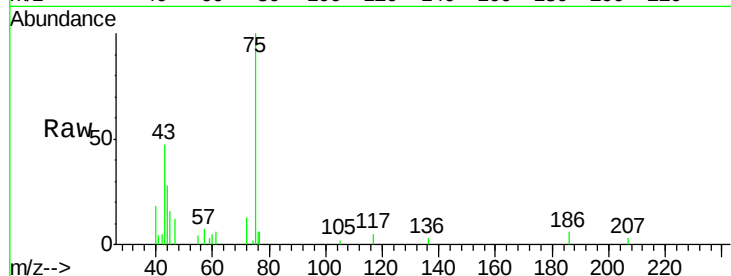




#25
2-Butanone
Concen: 1.66 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

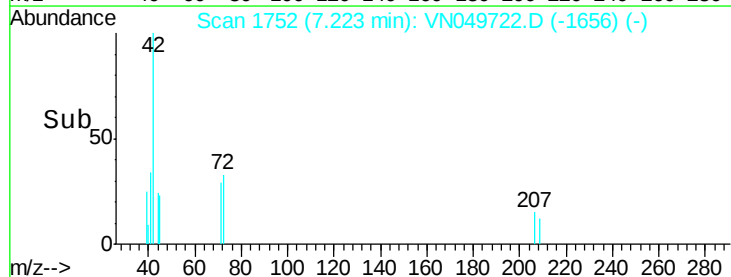
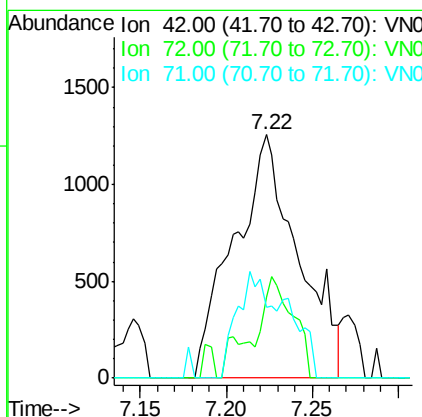
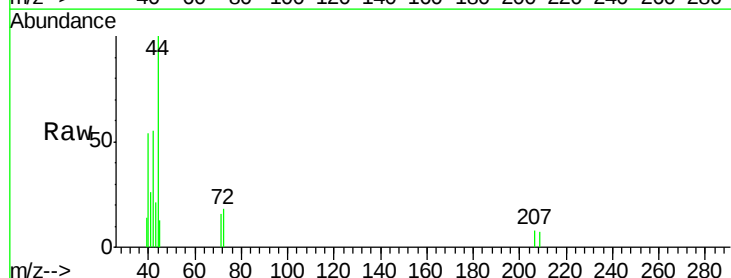
Instrument :
MSVOA_N
ClientSampled :

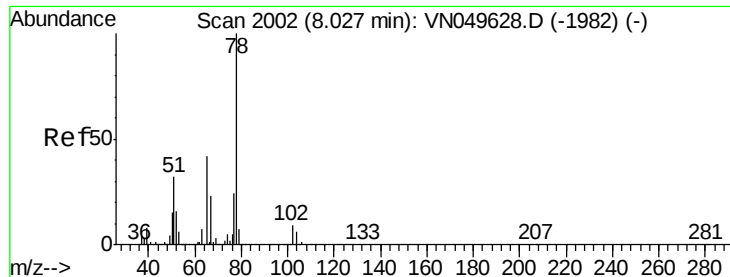
Tot Ion: 43 Resp: 8327
Ion Ratio Lower Upper
43 100
72 29.1 22.1 33.1



#29
Tetrahydrofuran
Concen: 1.03 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

Tgt Ion: 42 Resp: 3273
Ion Ratio Lower Upper
42 100
72 19.0 35.6 53.4#
71 0.0 34.0 51.0#

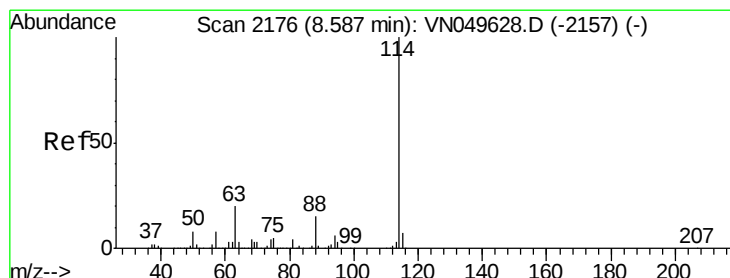
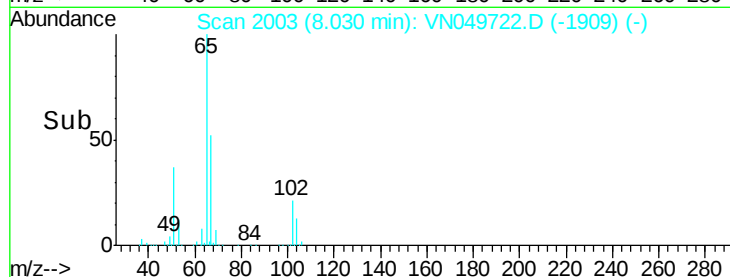
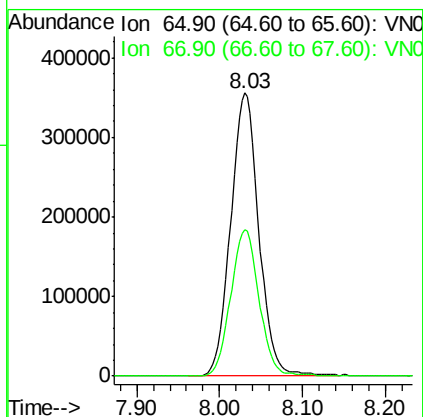
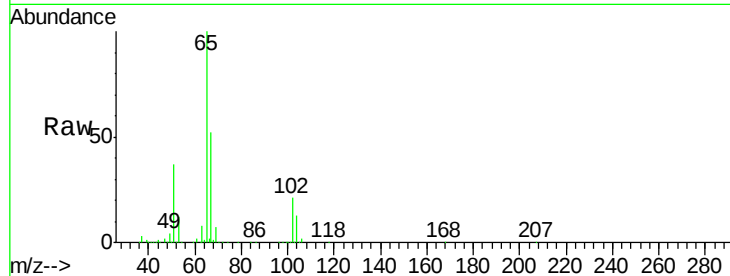




#33
 1,2-Dichloroethane-d4
 Concen: 55.83 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

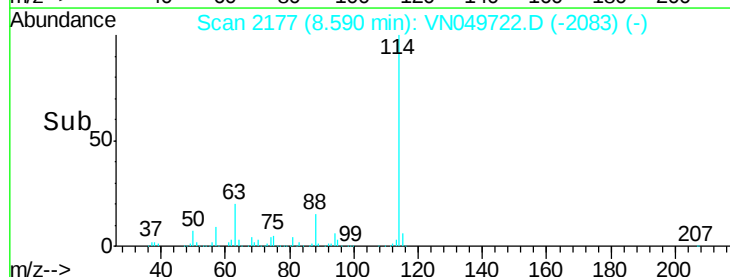
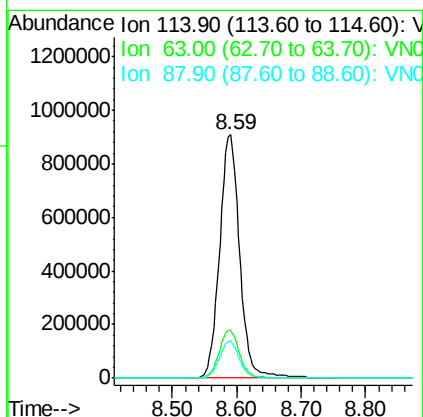
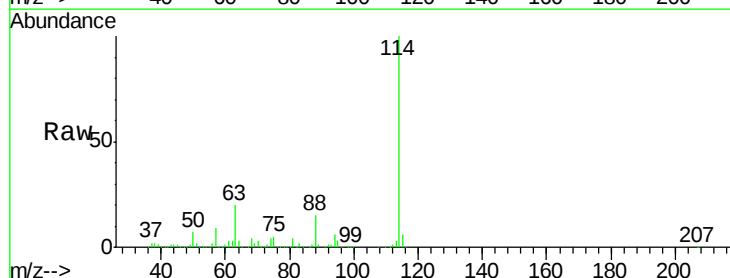
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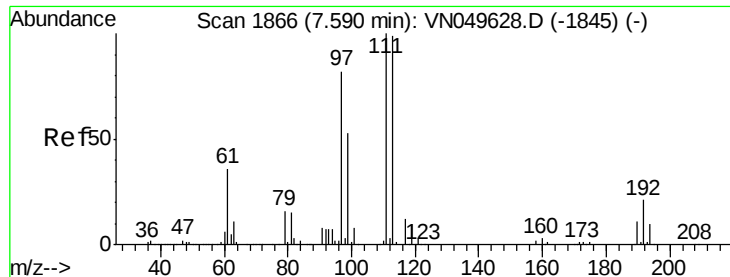
Tot Ion: 65 Resp: 841878
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

Tgt Ion: 114 Resp: 1961606
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.4 0.0 30.6

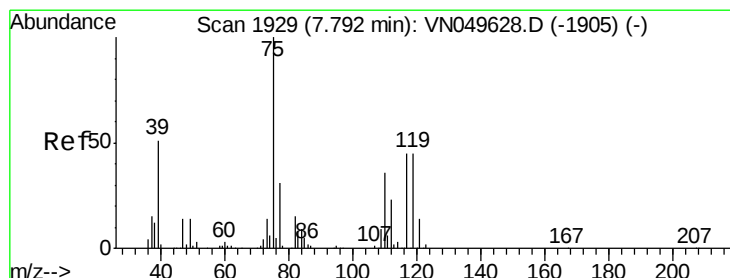
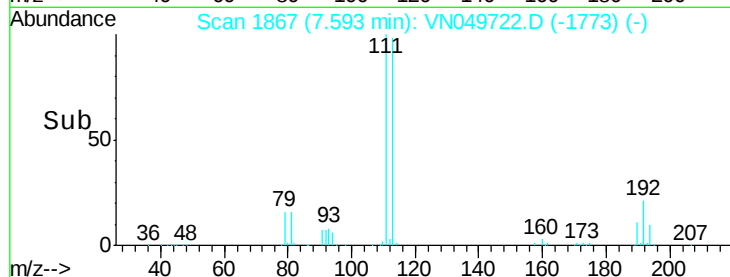
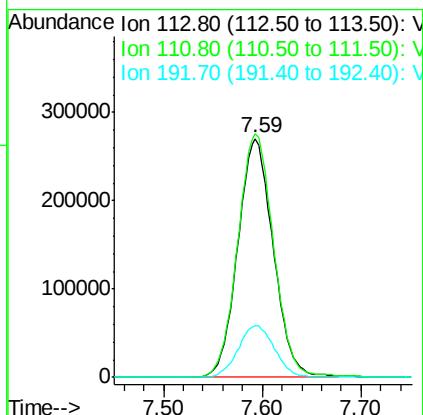
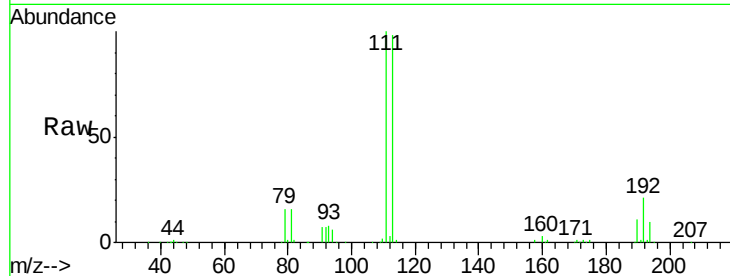




#35
 Dibromofluoromethane
 Concen: 45.91 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

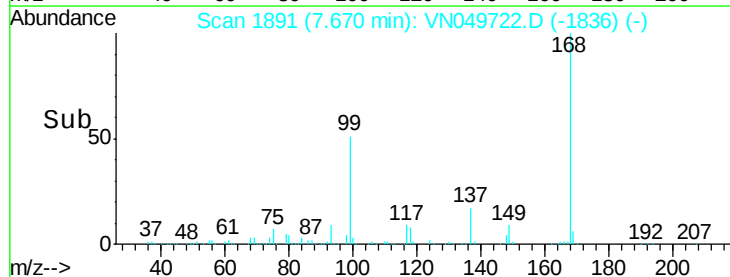
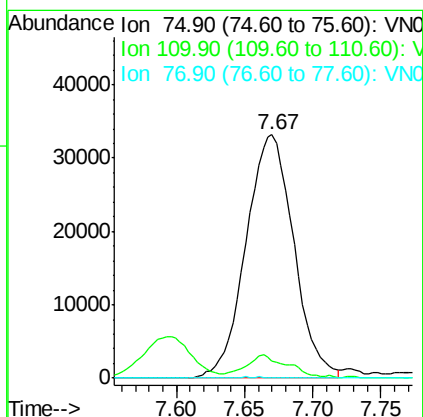
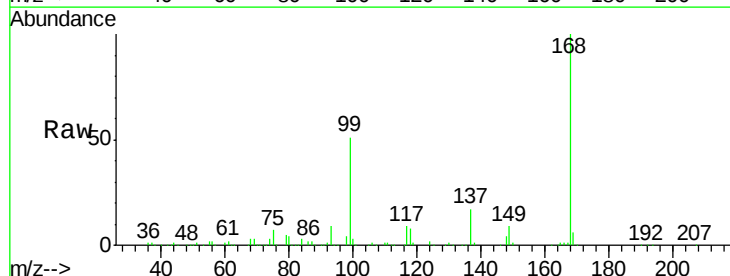
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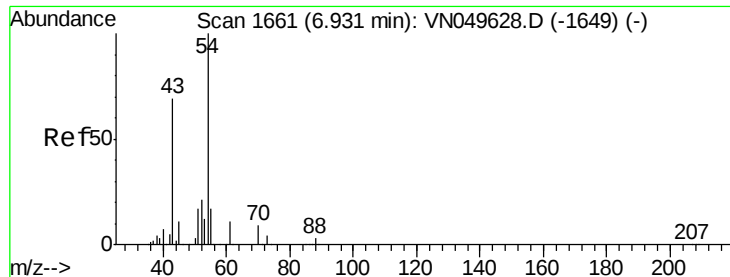
Tot Ion:113 Resp: 673219
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.8 122.8
 192 22.2 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

Tgt Ion: 75 Resp: 80747
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.4#
 77 0.0 24.9 37.3#

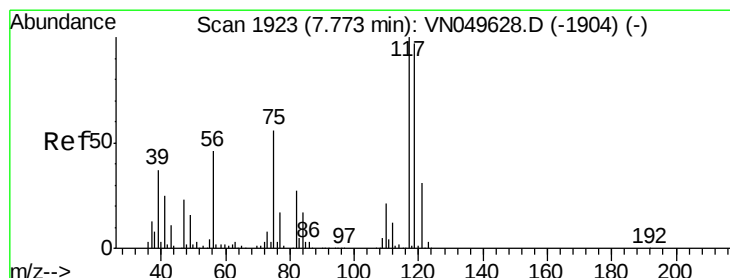
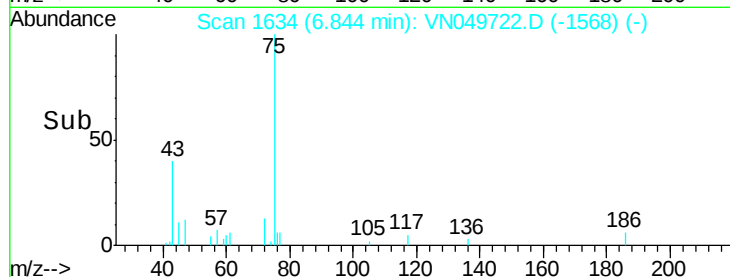
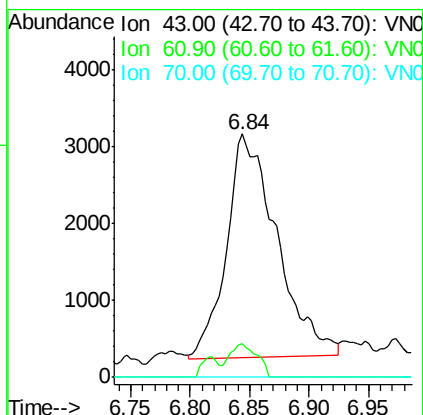
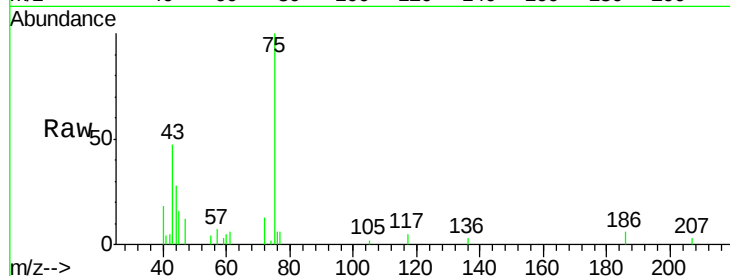




#37
Ethyl Acetate
Concen: 0.66 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. -0.09 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

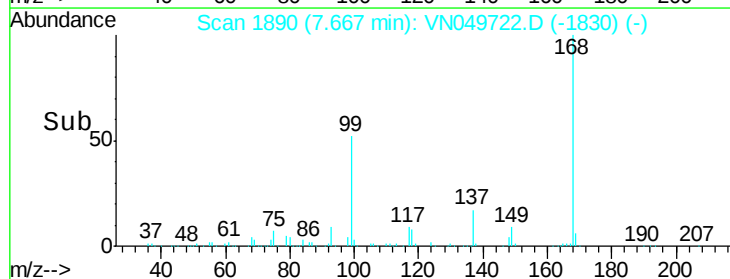
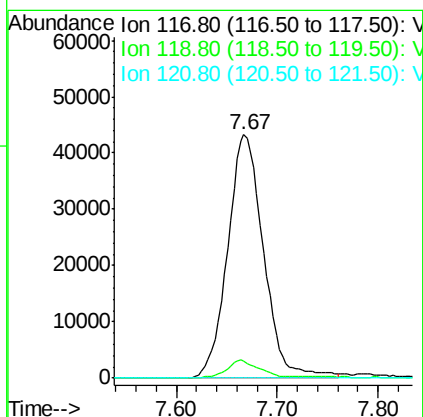
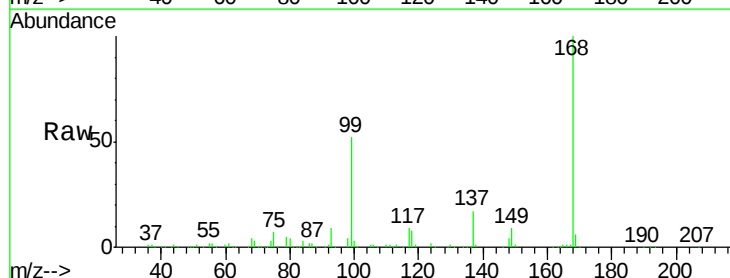
Instrument :
MSVOA_N
ClientSampleId :

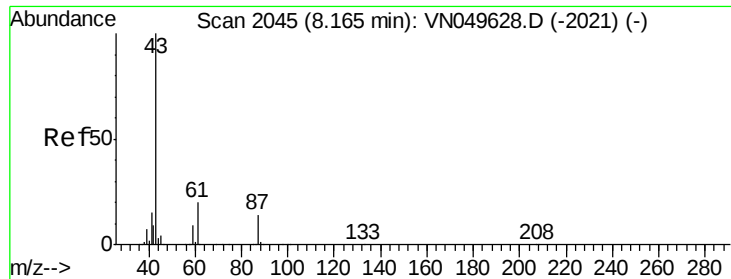
Tot Ion: 43 Resp: 8527
Ion Ratio Lower Upper
43 100
61 8.4 11.7 17.5#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 5.00 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

Tgt Ion: 117 Resp: 107246
Ion Ratio Lower Upper
117 100
119 6.7 77.2 115.8#
121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 22.36 ug/l

RT: 8.25 min Scan# 2071

Delta R.T. 0.08 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

Instrument :

MSVOA_N

ClientSampled :

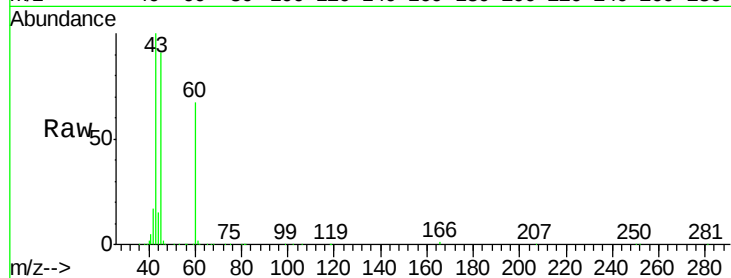
Tot Ion: 43 Resp: 579708

Ion Ratio Lower Upper

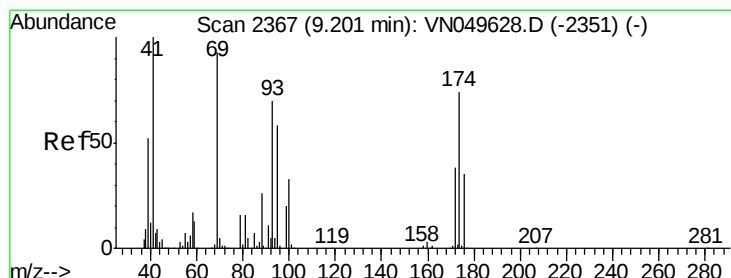
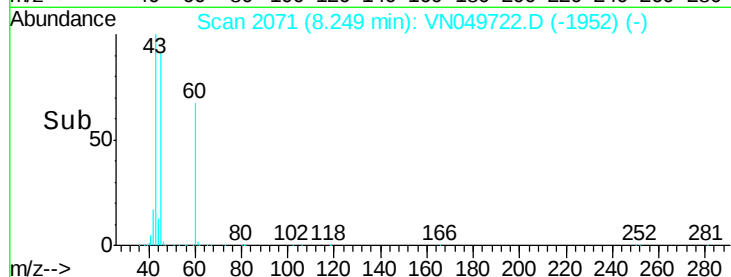
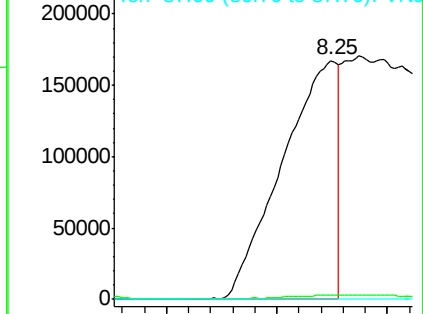
43 100

61 0.1 14.9 22.3#

87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#49

1,4-Dioxane

Concen: 0.69 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.01 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

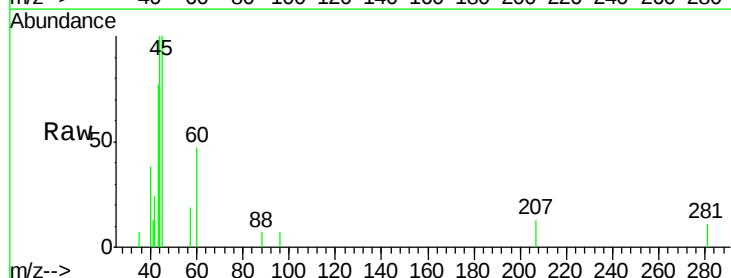
Tgt Ion: 88 Resp: 106

Ion Ratio Lower Upper

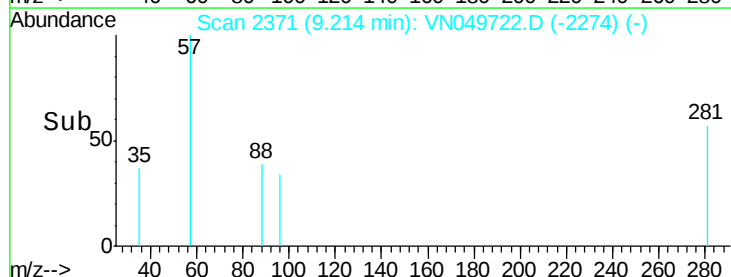
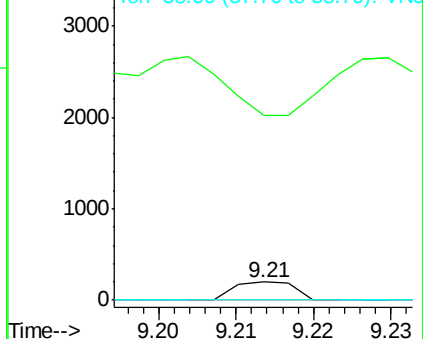
88 100

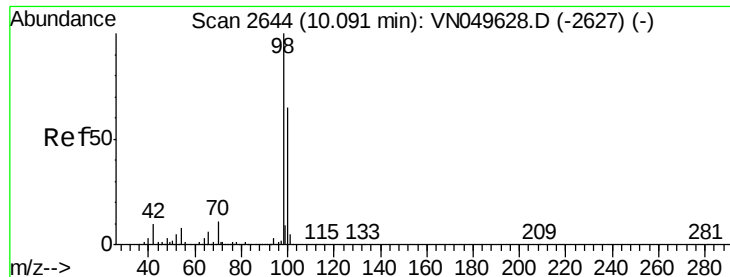
43 900.0 25.1 37.7#

58 0.0 52.5 78.7#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 44.97 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

Instrument :

MSVOA_N

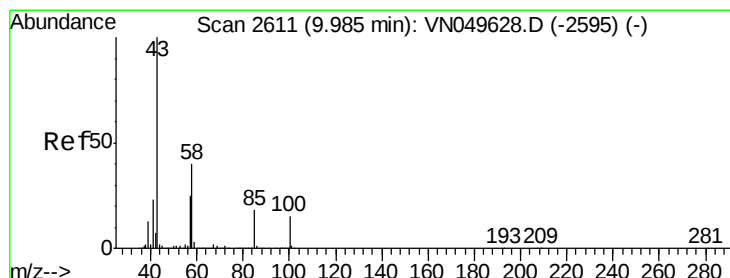
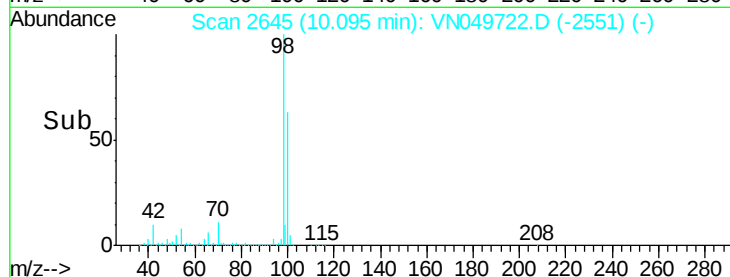
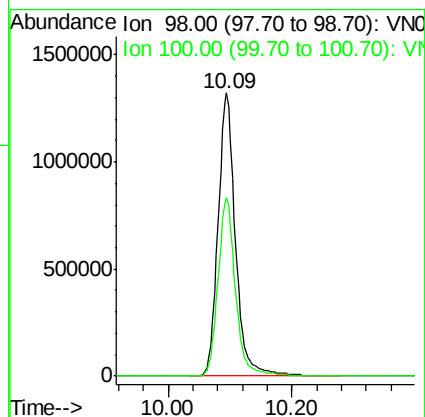
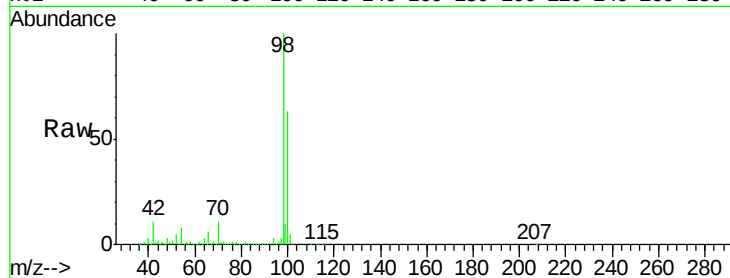
ClientSampled :

Tot Ion: 98 Resp: 2581423

Ion Ratio Lower Upper

98 100

100 63.4 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.29 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN049722.D

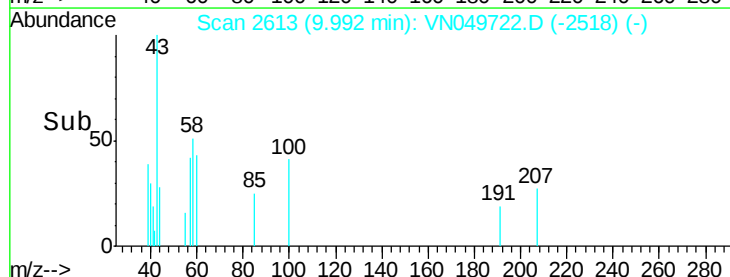
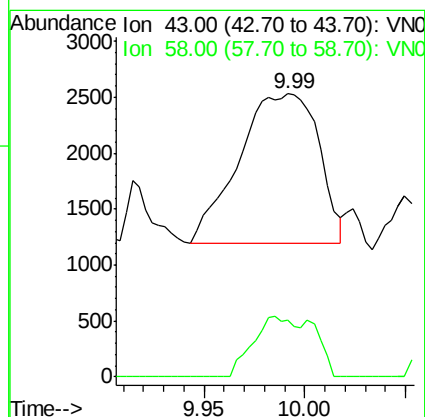
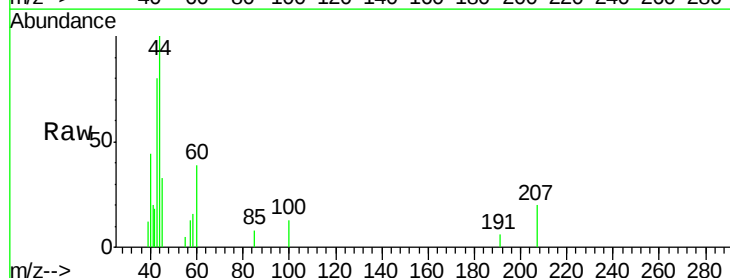
Acq: 5 Jul 2018 19:09

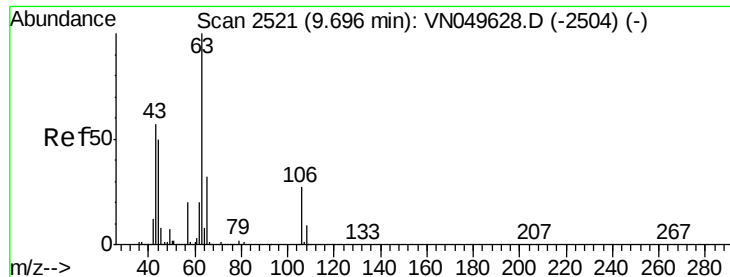
Tgt Ion: 43 Resp: 3669

Ion Ratio Lower Upper

43 100

58 22.8 31.8 47.8#





#58

2-Chloroethyl Vinyl ether

Concen: 10.82 ug/l

RT: 9.64 min Scan# 2504

Delta R.T. -0.05 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

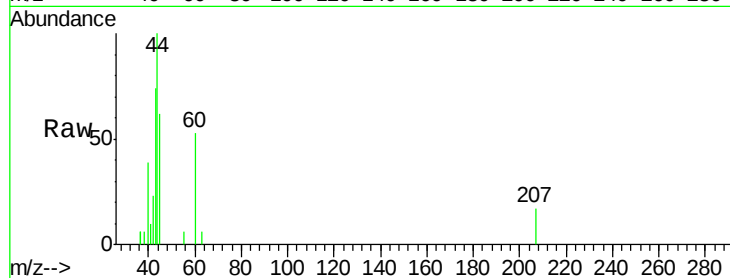
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 63 Resp: 29

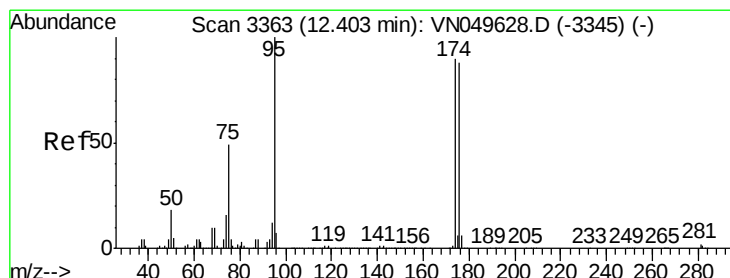
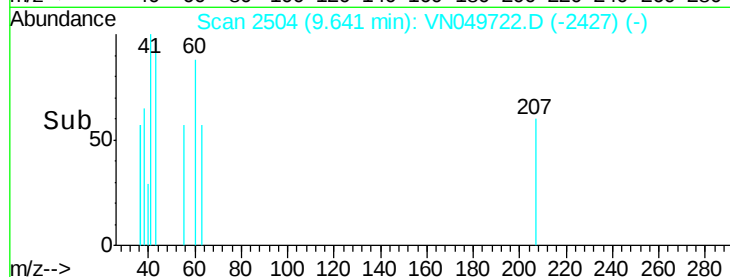
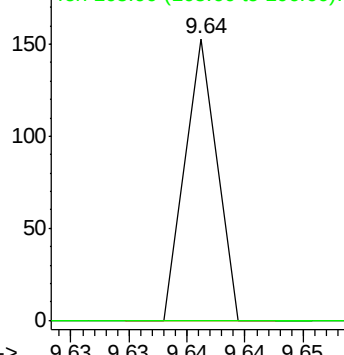
Ion Ratio Lower Upper

63 100

106 0.0 21.8 32.8#



Abundance Ion 62.90 (62.60 to 63.60): VN049628.D (-2504) (-)



#62

4-Bromofluorobenzene

Concen: 38.88 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

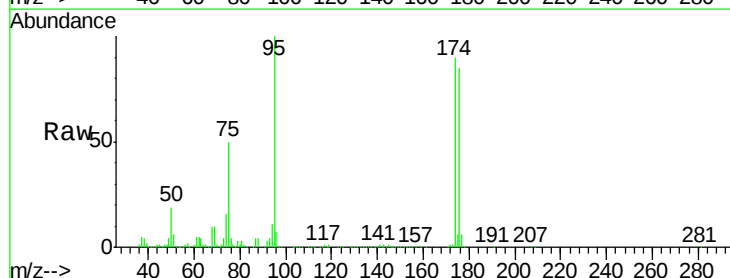
Tgt Ion: 95 Resp: 761977

Ion Ratio Lower Upper

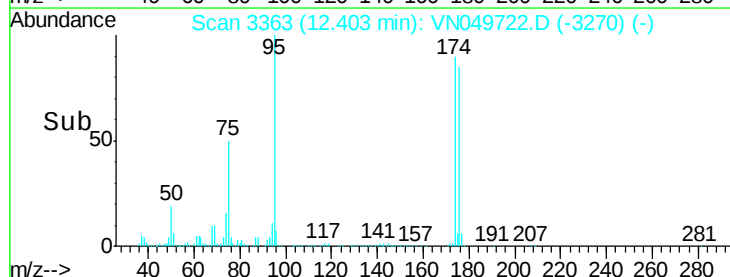
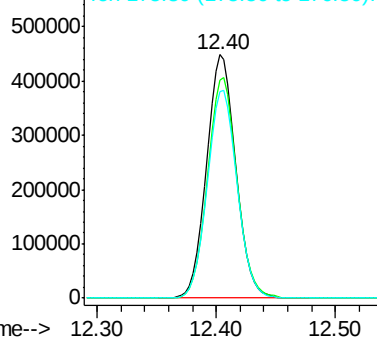
95 100

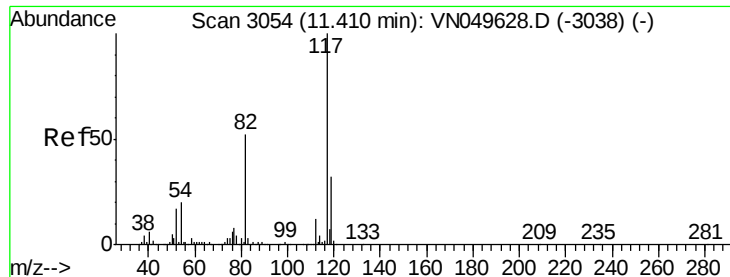
174 91.3 0.0 179.6

176 86.9 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049628.D (-3345) (-)





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

Instrument :

MSVOA_N

ClientSampled :

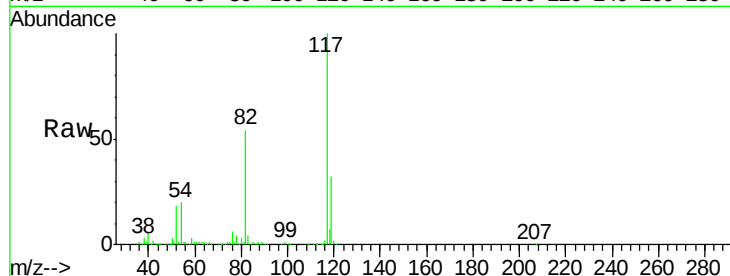
Tot Ion:117 Resp: 1621640

Ion Ratio Lower Upper

117 100

82 54.1 41.9 62.9

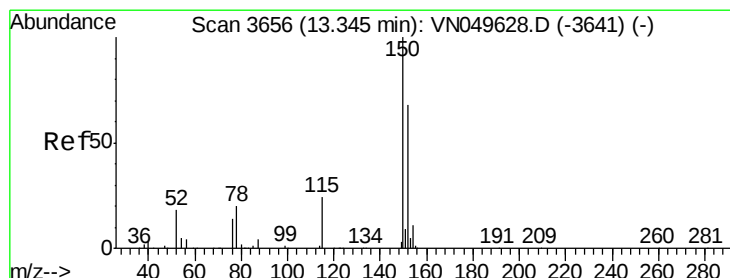
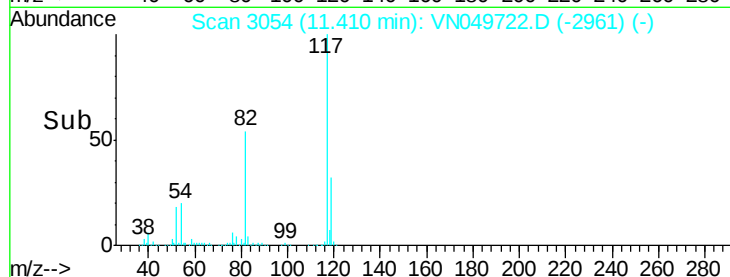
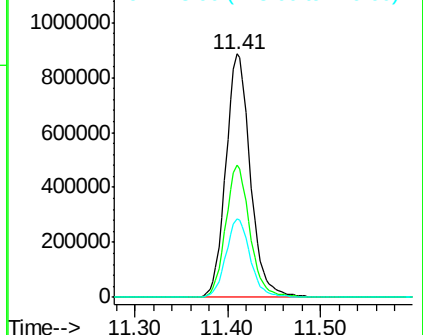
119 32.2 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

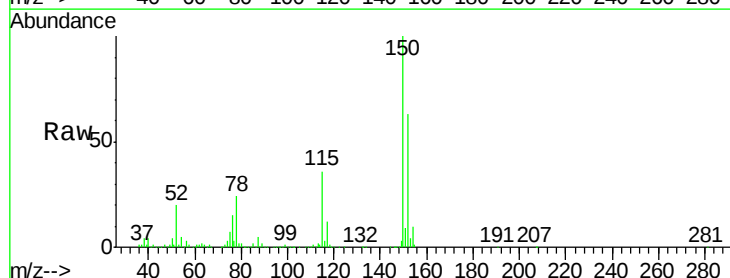
Tgt Ion:152 Resp: 627143

Ion Ratio Lower Upper

152 100

115 56.8 28.1 84.2

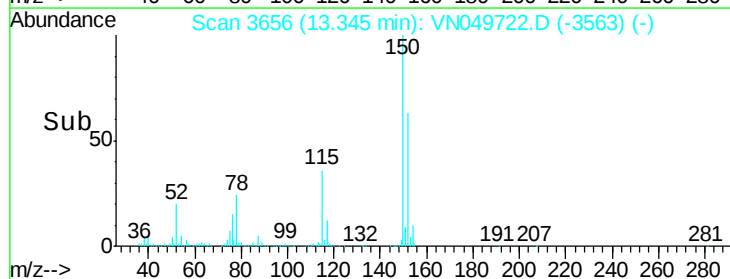
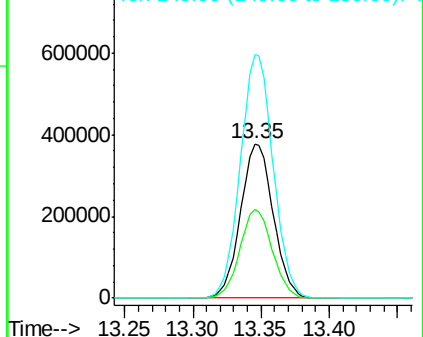
150 158.6 0.0 347.6

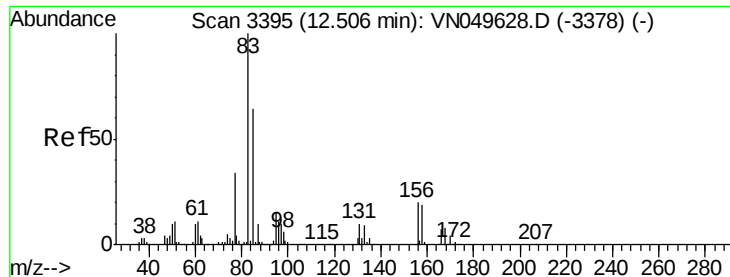


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.57 min Scan# 3414

Delta R.T. 0.06 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

Instrument :

MSVOA_N

ClientSampleId :

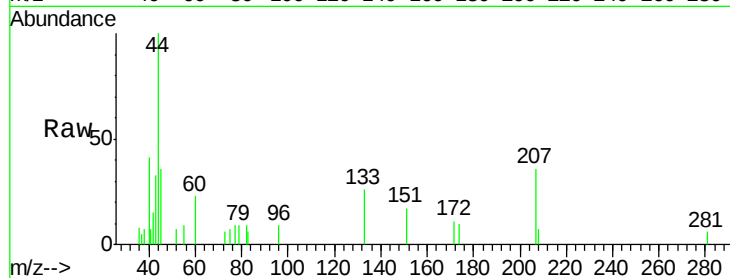
Tot Ion: 83 Resp: 32

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

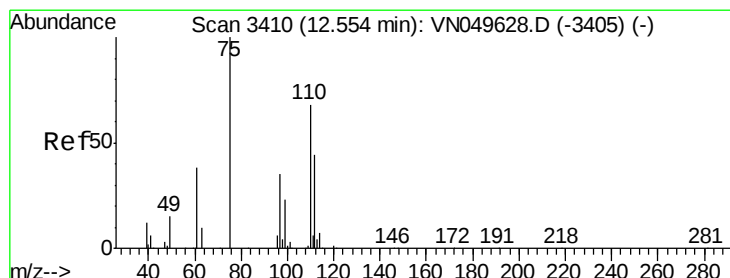
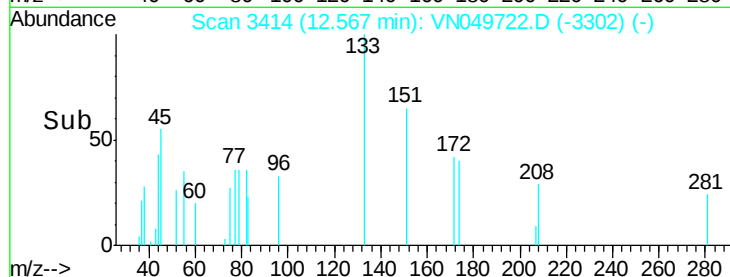
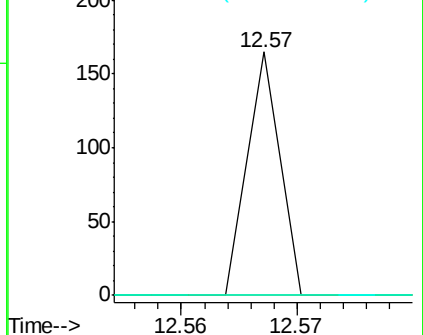
85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 37.26 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049722.D

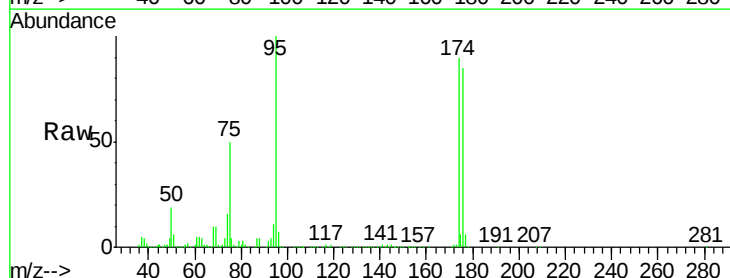
Acq: 5 Jul 2018 19:09

Tgt Ion: 75 Resp: 374777

Ion Ratio Lower Upper

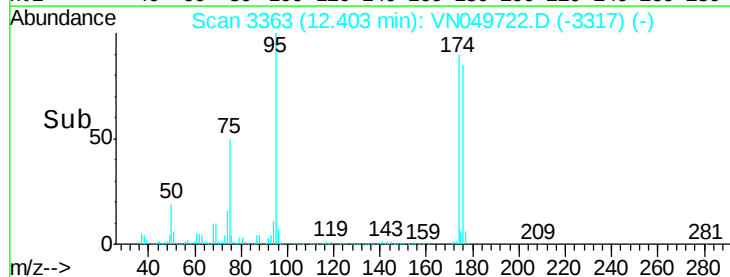
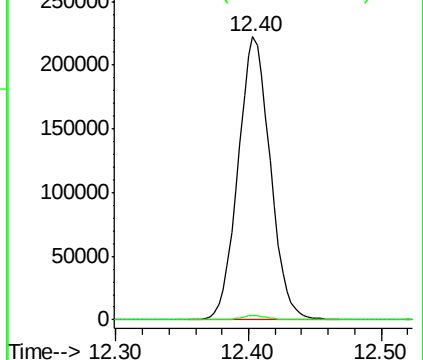
75 100

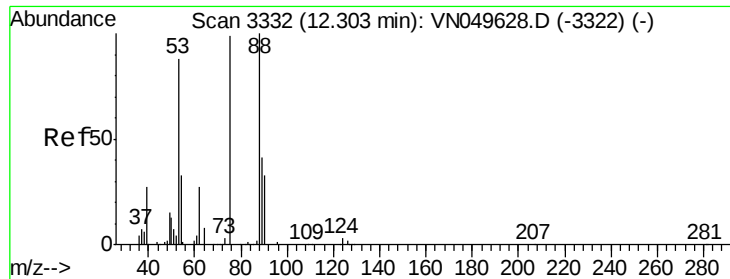
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

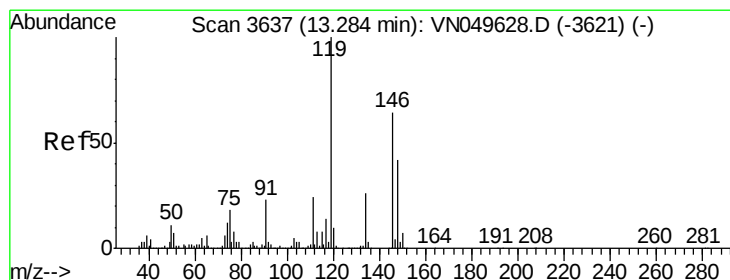
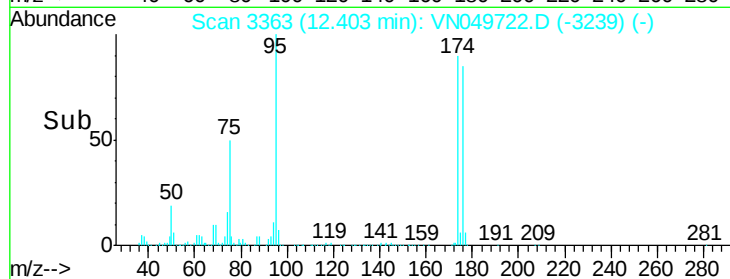
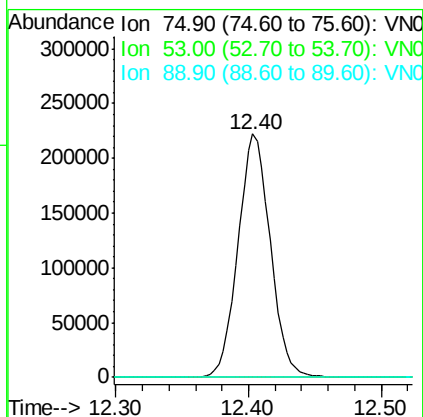
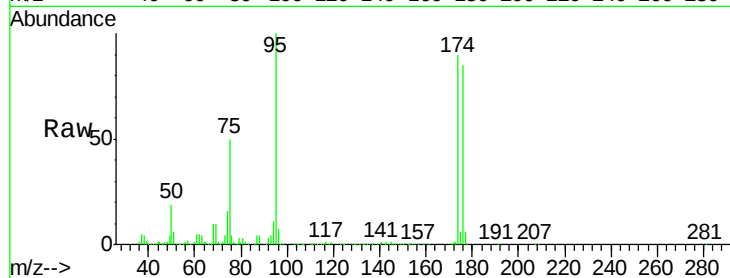




#81
trans-1,4-Dichloro-2-butene
Concen: 126.56 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

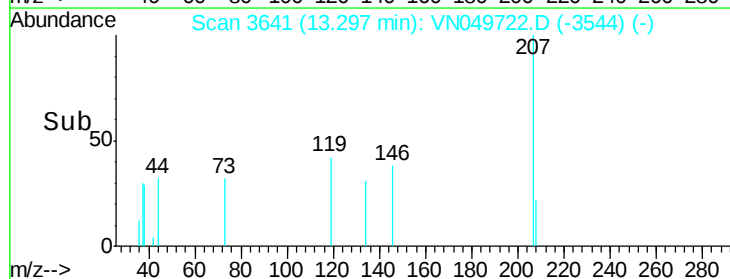
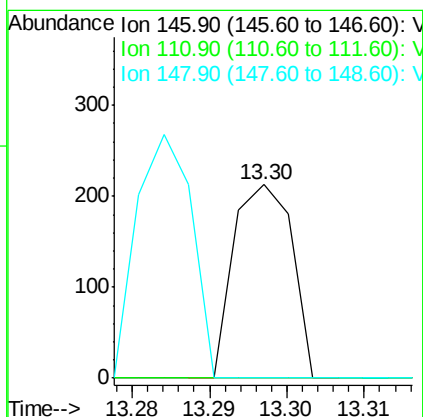
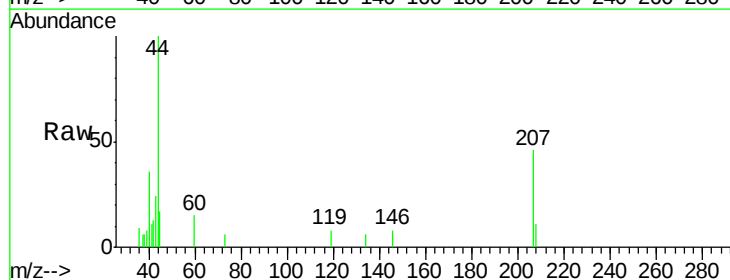
Instrument :
MSVOA_N
ClientSampleId :

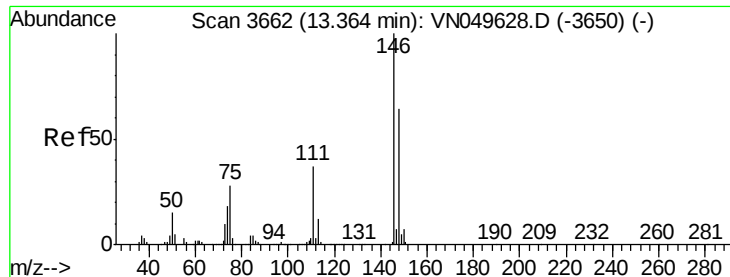
Tot Ion: 75 Resp: 374777
Ion Ratio Lower Upper
75 100
53 0.3 73.9 110.9#
89 0.0 35.9 53.9#



#87
1,3-Dichlorobenzene
Concen: Below Cal
RT: 13.30 min Scan# 3641
Delta R.T. 0.01 min
Lab File: VN049722.D
Acq: 5 Jul 2018 19:09

Tgt Ion: 146 Resp: 112
Ion Ratio Lower Upper
146 100
111 0.0 19.0 57.0#
148 117.9 32.5 97.5#

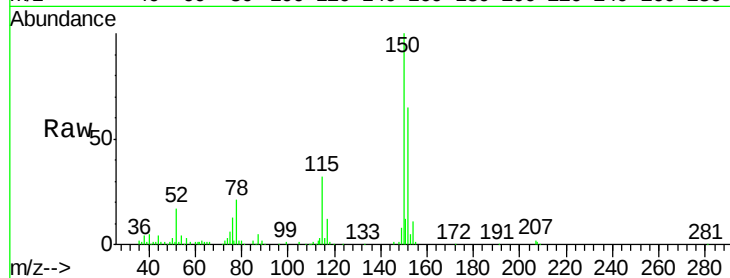




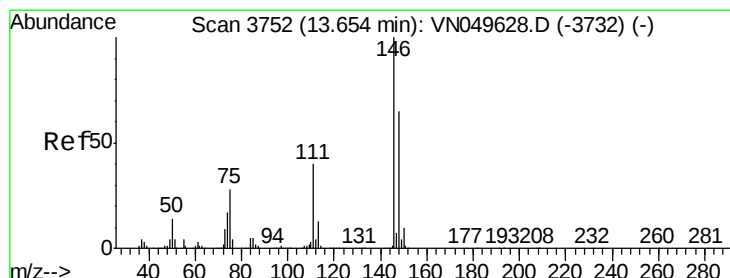
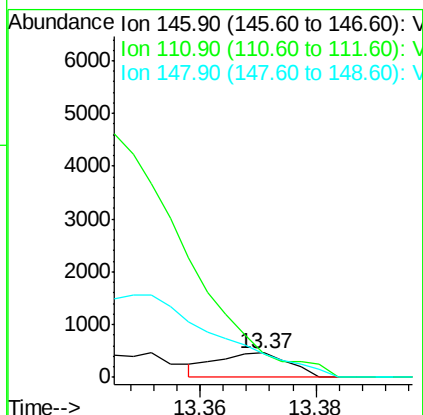
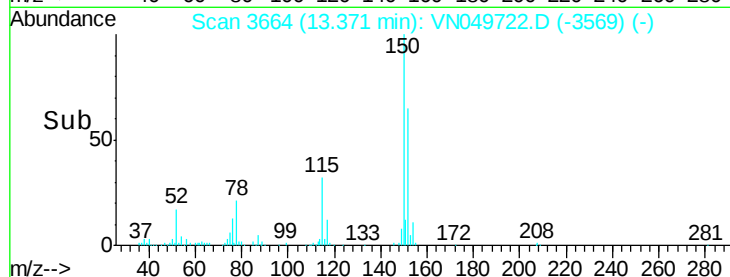
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.37 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:146 Resp: 405
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.5#
 148 0.0 32.1 96.3#

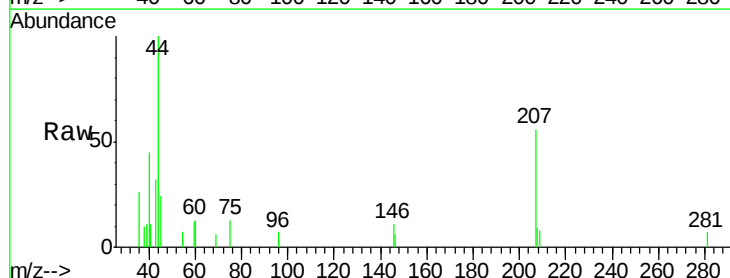


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

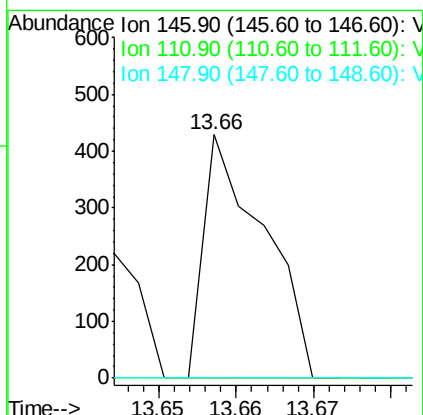
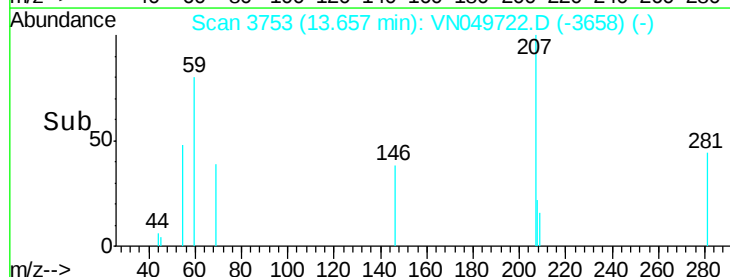


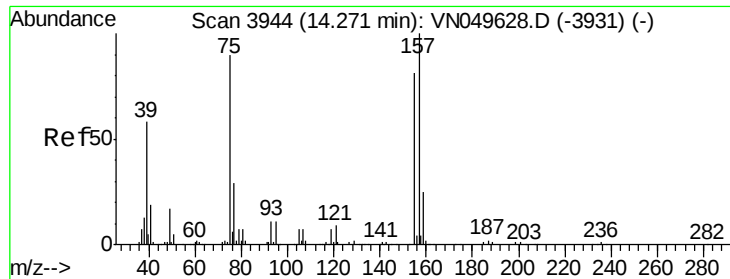
#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

Tgt Ion:146 Resp: 231
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.7 59.1#
 148 0.0 32.0 96.2#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3948

Delta R.T. 0.01 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

Instrument :

MSVOA_N

ClientSampled :

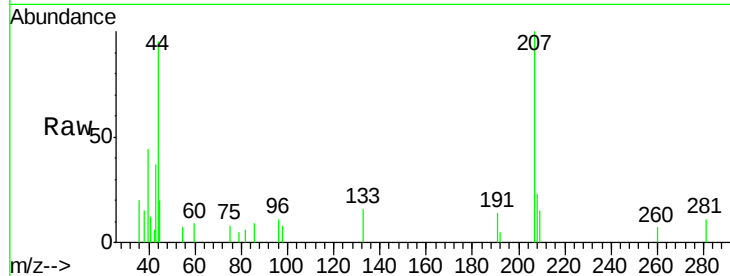
Tot Ion: 75 Resp: 118

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

157 0.0 56.9 170.7#

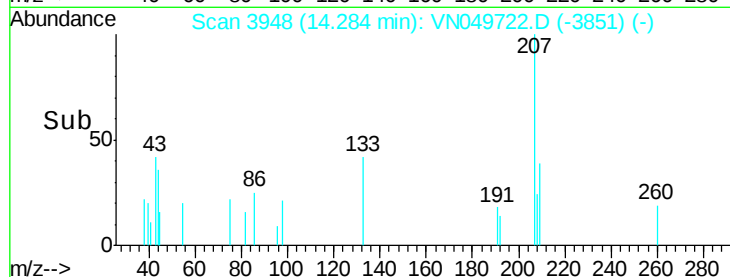


Abundance Ion 74.90 (74.60 to 75.60): VN049628.D (-3931) (-)

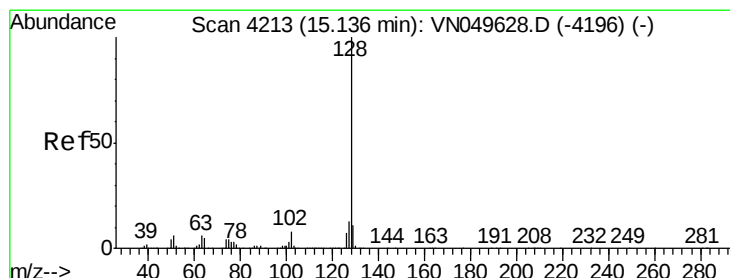
Ion 154.80 (154.50 to 155.50): VN049628.D (-3931) (-)

Ion 156.80 (156.50 to 157.50): VN049628.D (-3931) (-)

Time-->



Time-->



#95

Naphthalene

Concen: 4.05 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049722.D

Acq: 5 Jul 2018 19:09

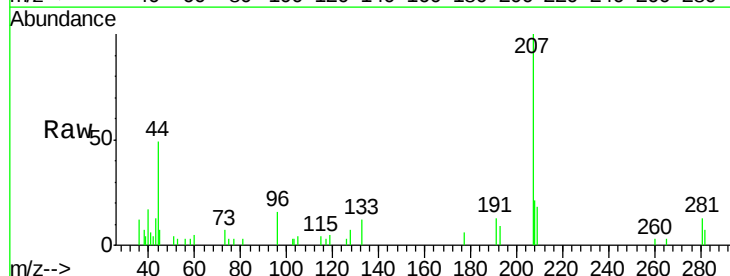
Tgt Ion: 128 Resp: 408

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#

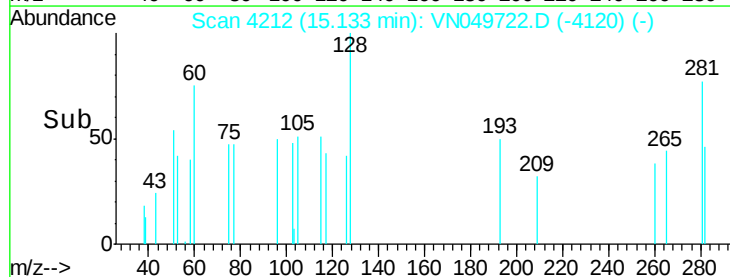


Abundance Ion 128.00 (127.70 to 128.70): VN049628.D (-4196) (-)

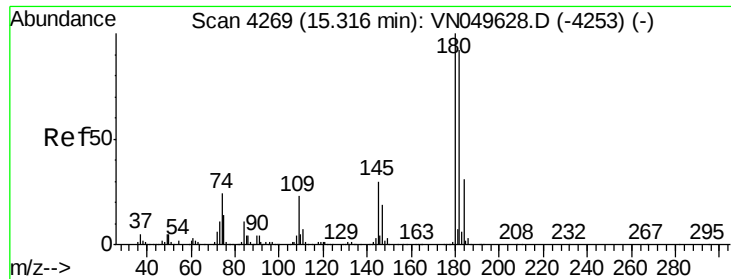
Ion 127.00 (126.70 to 127.70): VN049628.D (-4196) (-)

Ion 129.00 (128.70 to 129.70): VN049628.D (-4196) (-)

Time-->



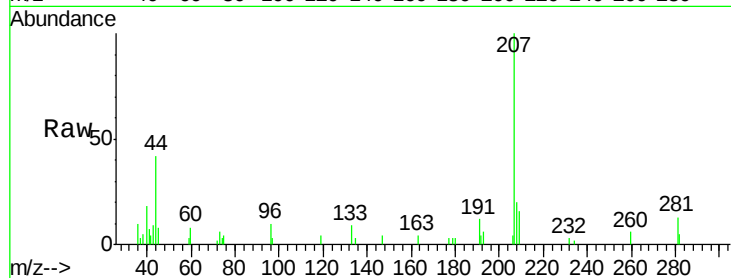
Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 1.66 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.01 min
 Lab File: VN049722.D
 Acq: 5 Jul 2018 19:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.2#
145	0.0	15.2	45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

