

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054591.D
 Acq On : 23 Mar 2019 7:23
 Operator : JC/SP
 Sample : K2045-17ME
 Misc : 5.13g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB444-190320-(14-16)ME

Quant Time: Mar 25 01:52:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	577876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	896109	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	768214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	326760	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	356445	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
35) Dibromofluoromethane	7.59	113	262147	45.41	ug/l	0.00
Spiked Amount			Recovery	=	90.82%	
50) Toluene-d8	10.09	98	1080570	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	12.40	95	353158	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	2623	0.348	ug/l	98
11) Tert butyl alcohol	4.73	59	48656	111.809	ug/l #	73
13) Acrolein	3.61	56	220	0.366	ug/l #	1
16) Acetone	3.83	43	2026	0.938	ug/l #	67
18) Methyl Acetate	4.34	43	3133	0.650	ug/l #	59
20) Methylene Chloride	4.53	84	17525	2.751	ug/l #	84
27) cis-1,2-Dichloroethene	6.82	96	1770	0.261	ug/l	92
31) Cyclohexane	7.66	56	12069	Below Cal	#	9
36) 1,1-Dichloropropene	7.66	75	42031	5.016	ug/l #	50
38) Carbon Tetrachloride	7.66	117	52501	6.448	ug/l #	16
40) Benzene	8.04	78	5778	0.241	ug/l	98
52) Toluene	10.16	92	3855	0.262	ug/l	82
53) t-1,3-Dichloropropene	10.27	75	65	2.239	ug/l #	69
65) Chlorobenzene	11.43	112	127580	8.165	ug/l	97
71) Bromoform	12.13	173	171	2.263	ug/l #	28
74) N-amyl acetate	12.04	43	5536	0.731	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	185209	35.719	ug/l #	100
77) Bromobenzene	12.54	156	11993	1.836	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	185209	118.496	ug/l #	11
87) 1,3-Dichlorobenzene	13.28	146	8824	0.815	ug/l #	70
88) 1,4-Dichlorobenzene	13.36	146	26021	2.471	ug/l #	78
91) 1,2-Dichlorobenzene	13.65	146	18917	1.805	ug/l	88
93) 1,2,4-Trichlorobenzene	14.91	180	4430	0.848	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.01 min

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MSVOA_N

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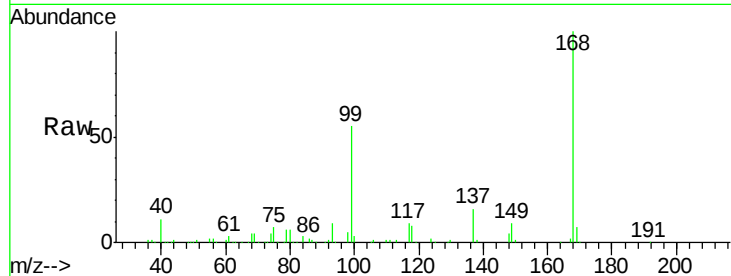
WP022SB444-190320-(14-16)ME

Tot Ion:168 Resp: 577876

Ion Ratio Lower Upper

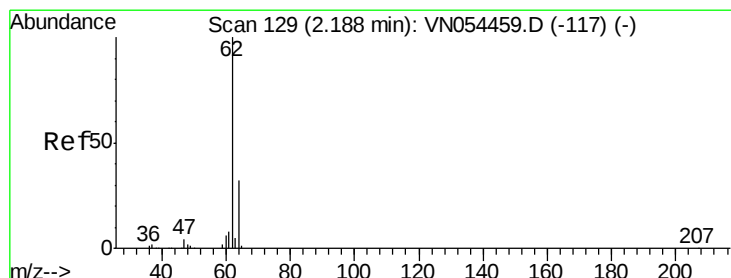
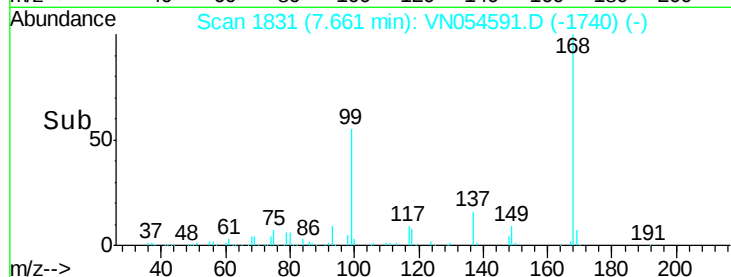
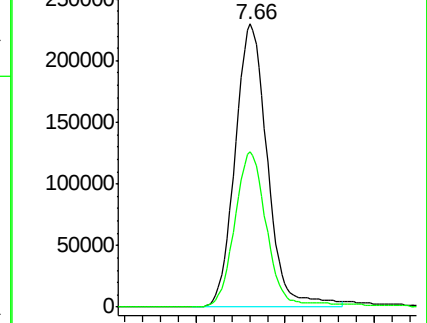
168 100

99 55.1 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Vinyl Chloride

Concen: 0.348 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054591.D

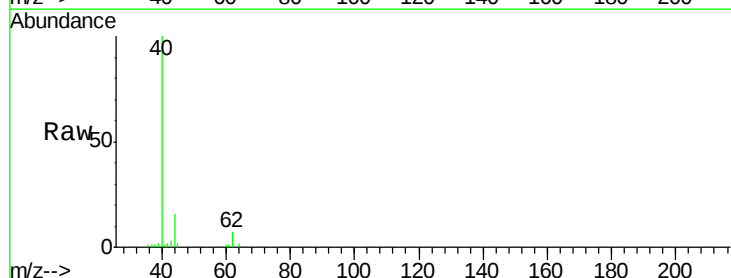
Acq: 23 Mar 2019 7:23

Tgt Ion: 62 Resp: 2623

Ion Ratio Lower Upper

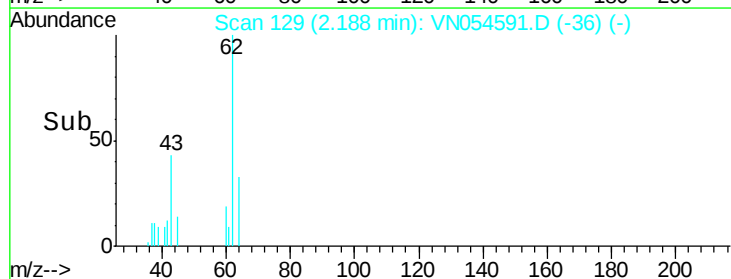
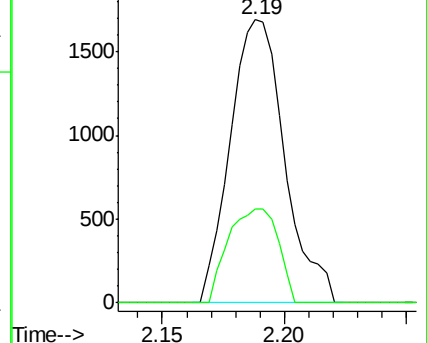
62 100

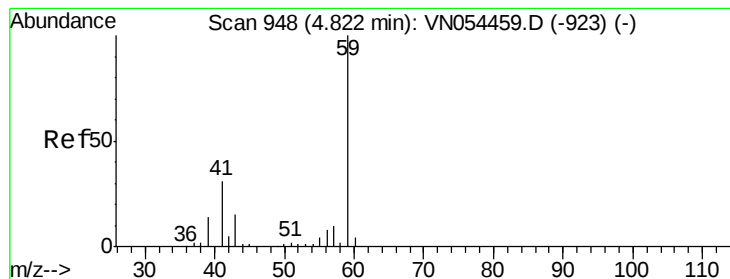
64 33.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



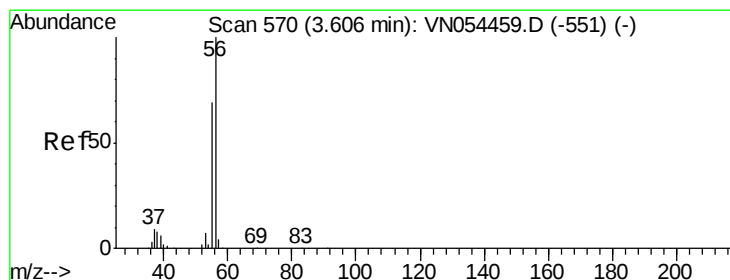
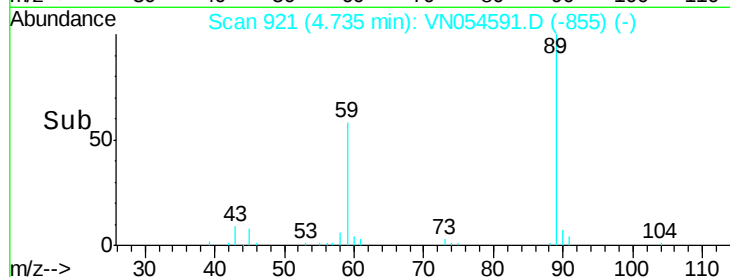
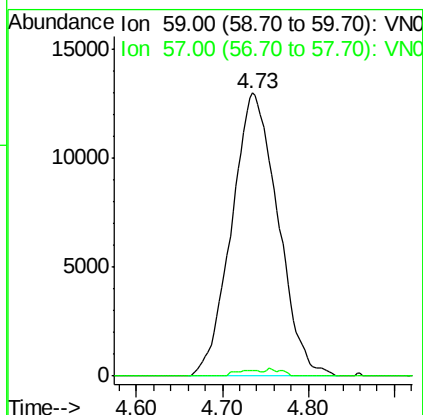
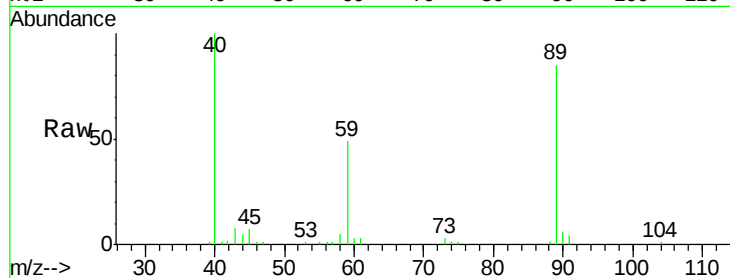


#11

Tert butyl alcohol
 Concen: 111.809 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. -0.09 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

Instrument :
 MSVOA_N
 ClientSampleId :
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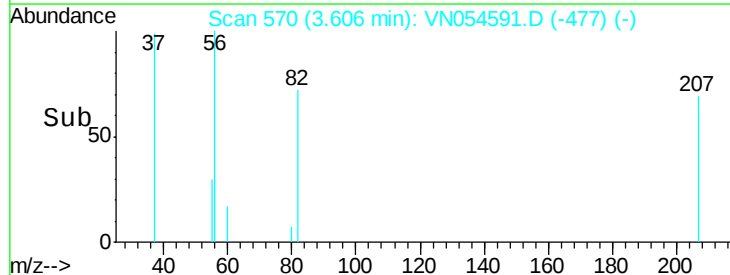
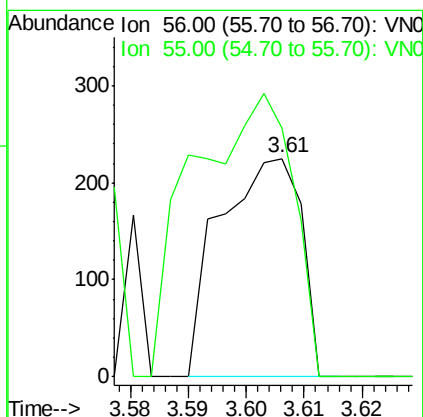
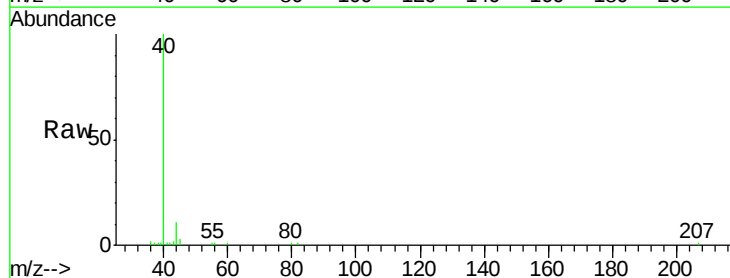
Tot Ion: 59 Resp: 48656
 Ion Ratio Lower Upper
 59 100
 57 1.1 9.0 13.6#

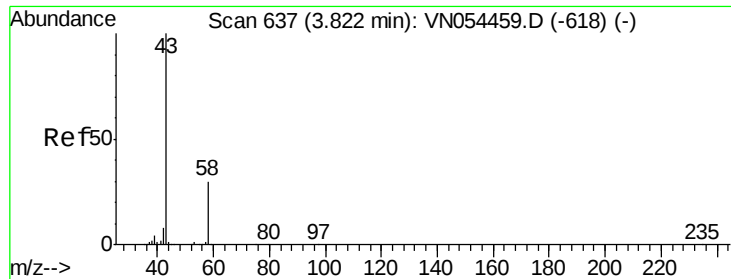


#13

Acrolein
 Concen: 0.366 ug/l
 RT: 3.61 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

Tgt Ion: 56 Resp: 220
 Ion Ratio Lower Upper
 56 100
 55 160.0 56.7 85.1#

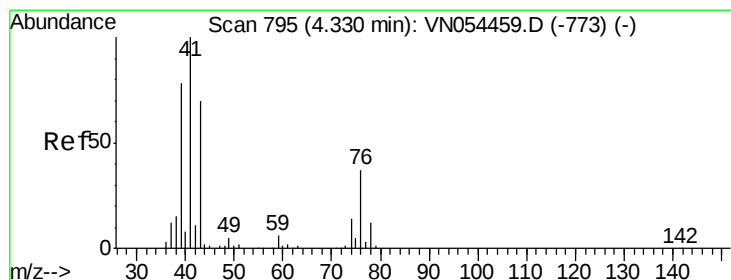
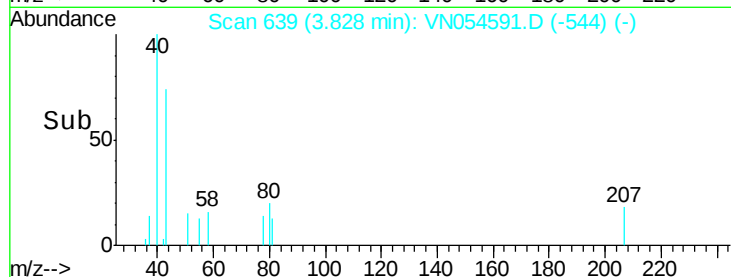
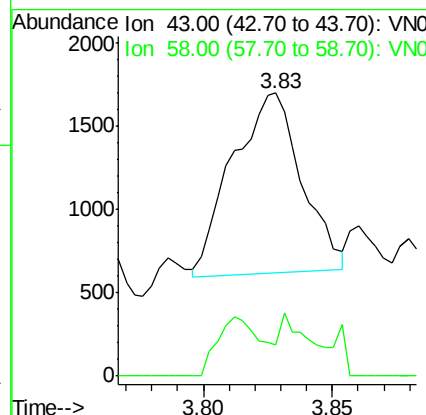
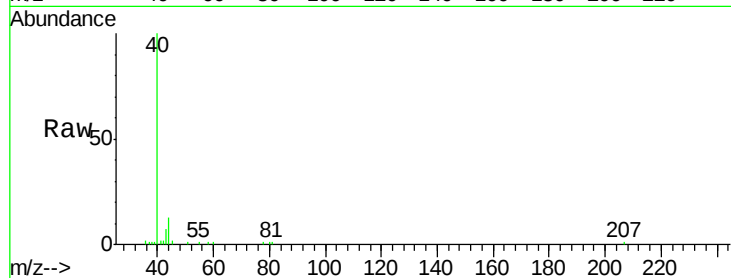




#16
Acetone
Concen: 0.938 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

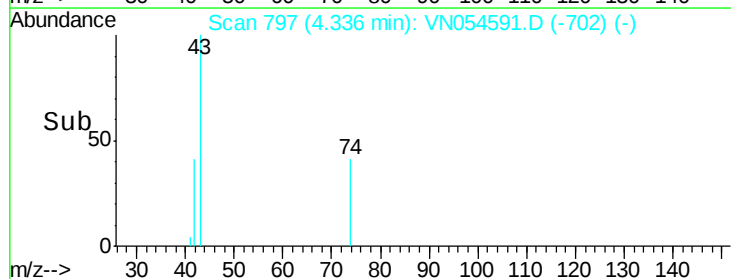
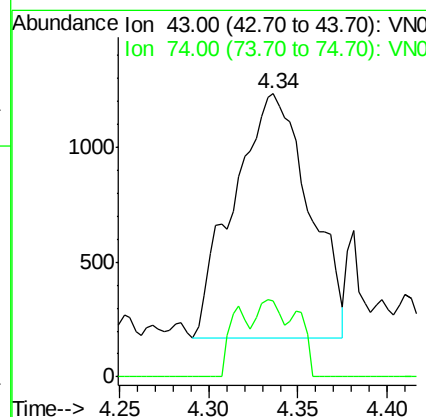
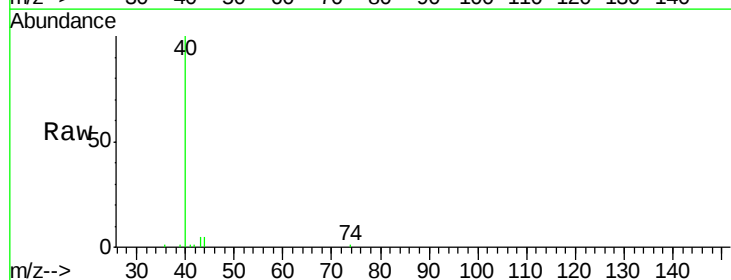
Instrument :
MSVOA_N
ClientSampleId :
WP022SB444-190320-(14-16)ME

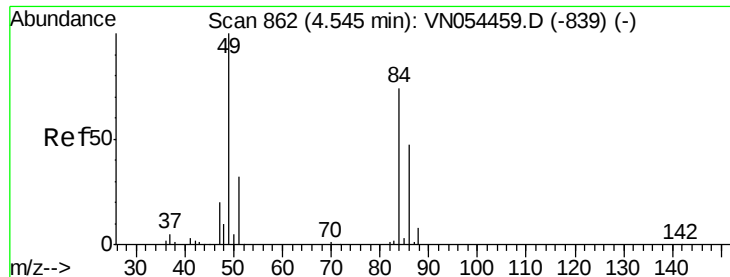
Tot Ion: 43 Resp: 2026
Ion Ratio Lower Upper
43 100
58 17.9 29.9 44.9#



#18
Methyl Acetate
Concen: 0.650 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

Tgt Ion: 43 Resp: 3133
Ion Ratio Lower Upper
43 100
74 4.9 20.8 31.2#

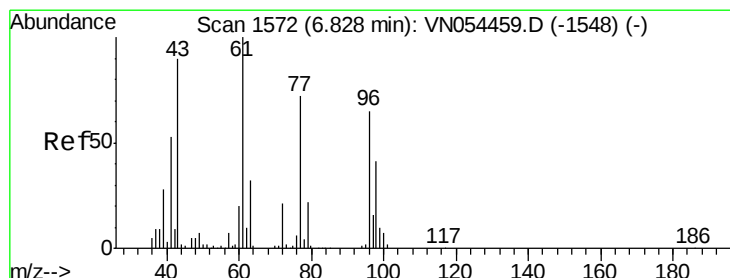
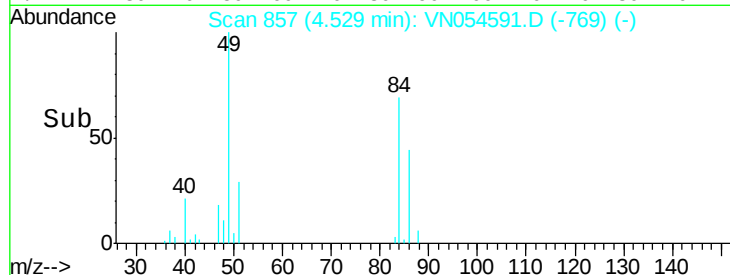
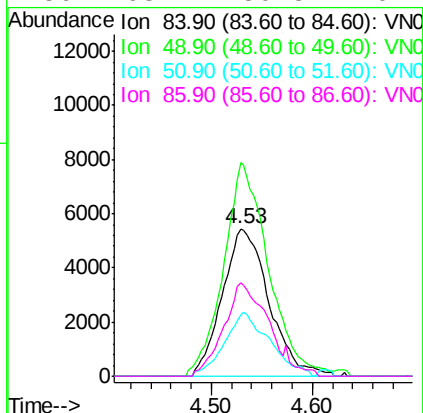
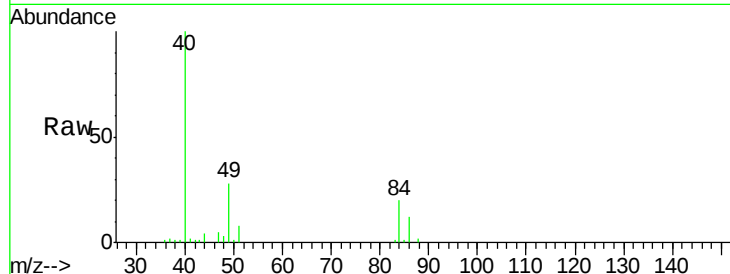




#20
Methvlene Chloride
Concen: 2.751 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.02 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

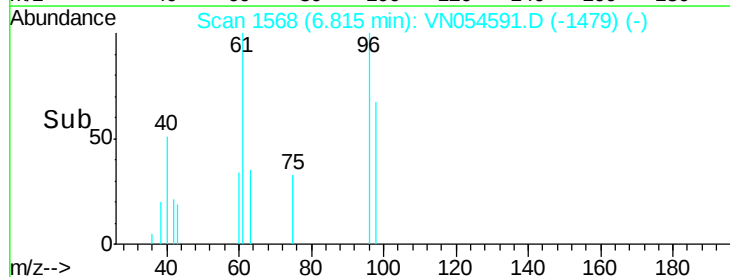
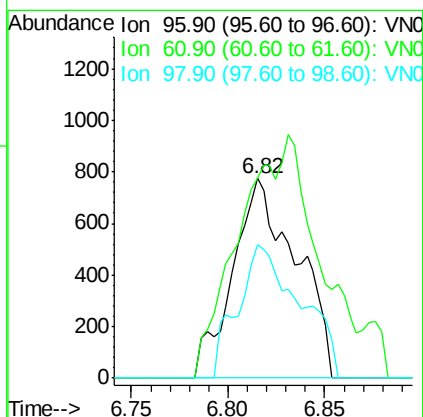
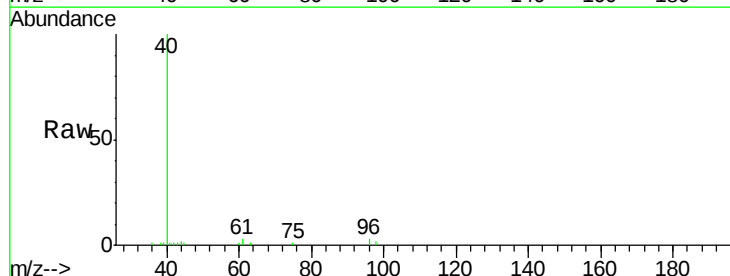
Instrument :
MSVOA_N
ClientSampleId :
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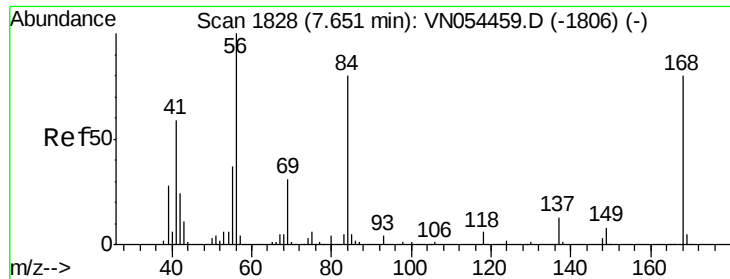
Tot Ion: 84 Resp: 17525
Ion Ratio Lower Upper
84 100
49 140.9 89.7 134.5#
51 41.8 28.2 42.4
86 63.2 50.8 76.2



#27
cis-1,2-Dichloroethene
Concen: 0.261 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. -0.01 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

Tgt Ion: 96 Resp: 1770
Ion Ratio Lower Upper
96 100
61 149.8 0.0 273.0
98 65.9 0.0 130.6

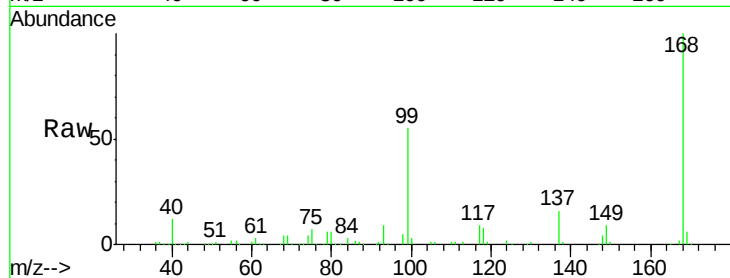




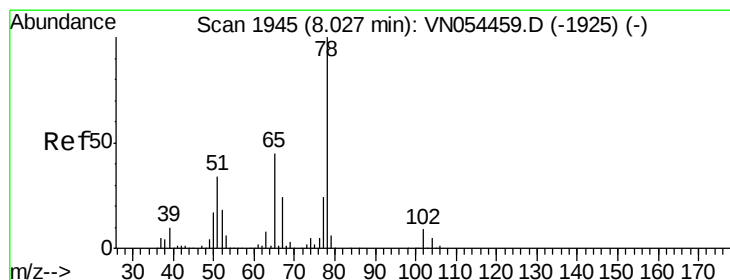
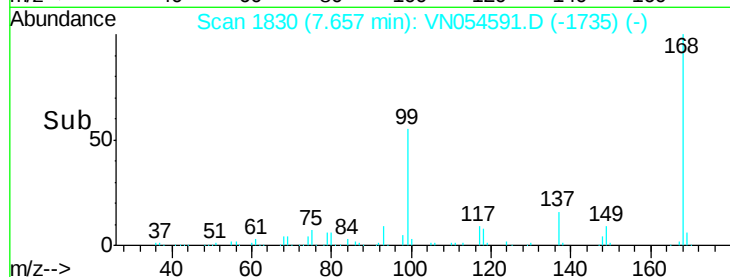
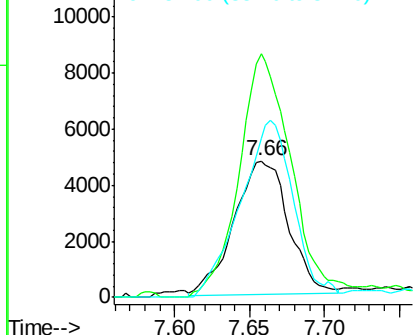
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion: 56 Resp: 12069
Ion Ratio Lower Upper
56 100
69 184.5 27.8 41.6#
84 120.6 74.6 111.8#

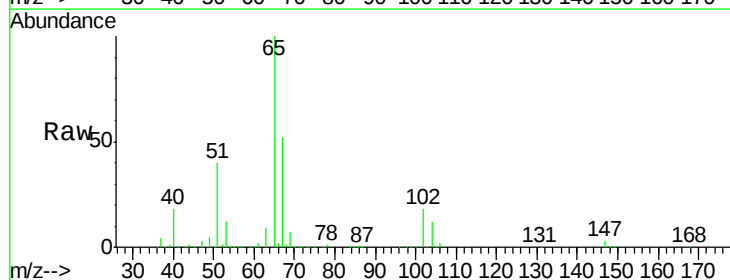


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

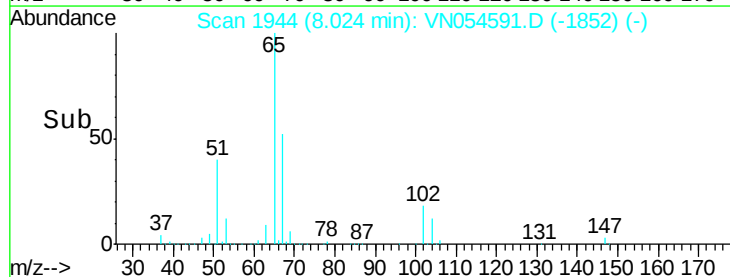
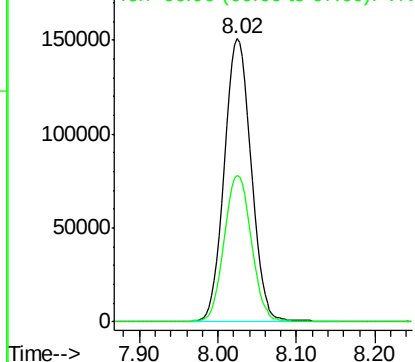


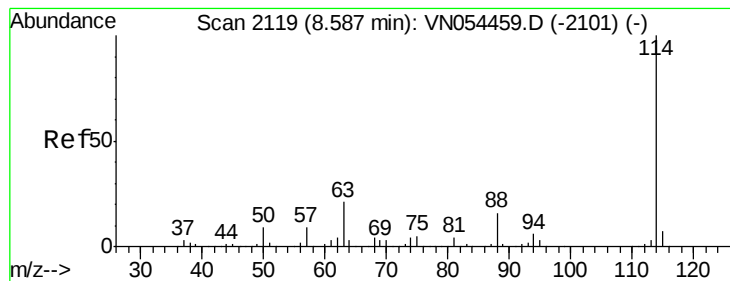
#33
1,2-Dichloroethane-d4
Concen: 49.590 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

Tgt Ion: 65 Resp: 356445
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

Instrument :

MSVOA_N

ClientSampleId :

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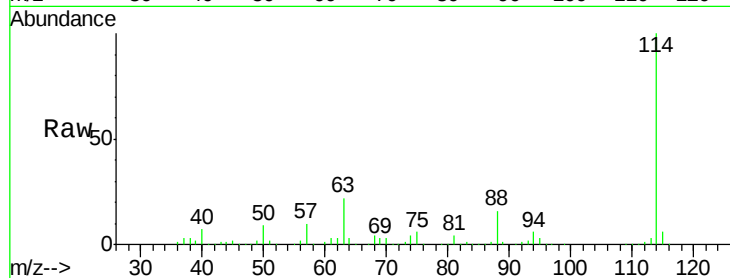
Tot Ion:114 Resp: 896109

Ion Ratio Lower Upper

114 100

63 21.6 0.0 35.2

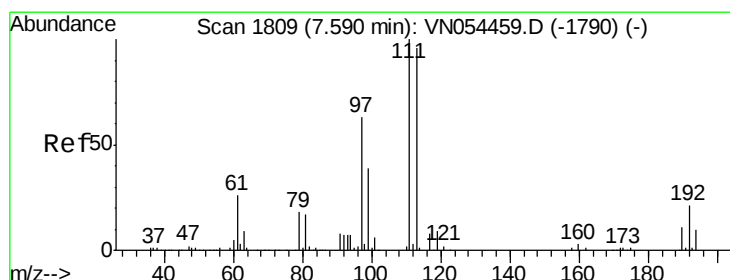
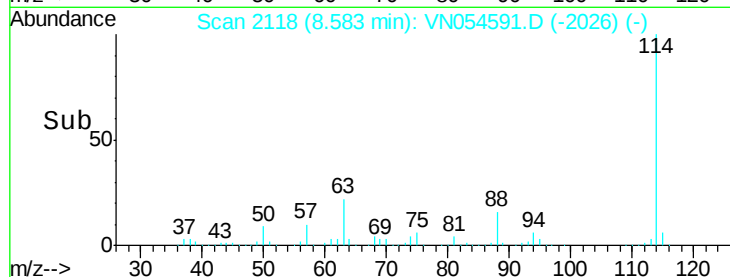
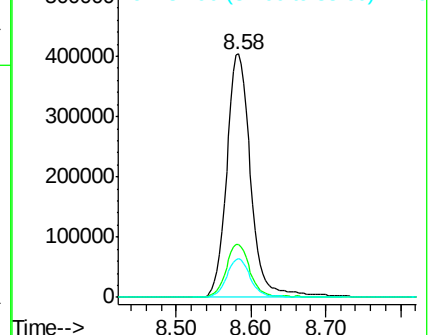
88 15.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 45.408 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

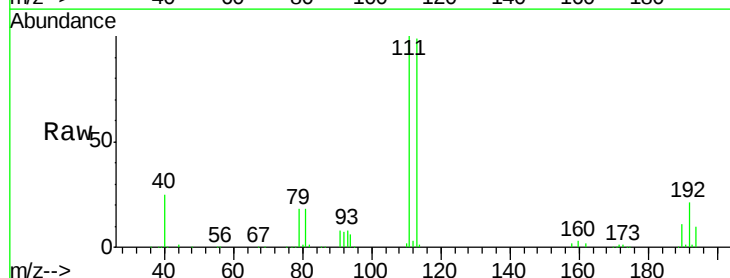
Tgt Ion:113 Resp: 262147

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

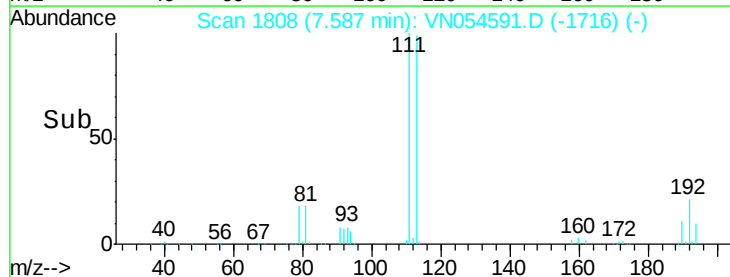
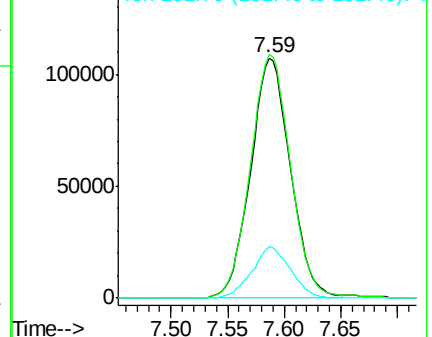
192 20.8 19.2 28.8

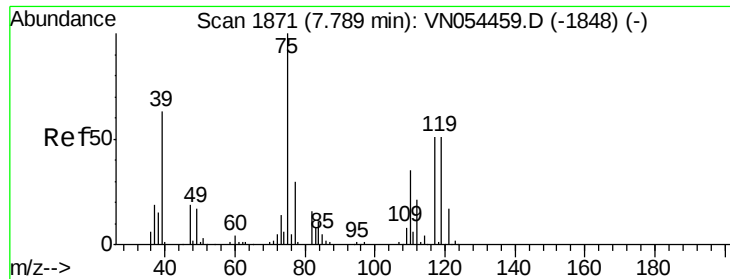


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

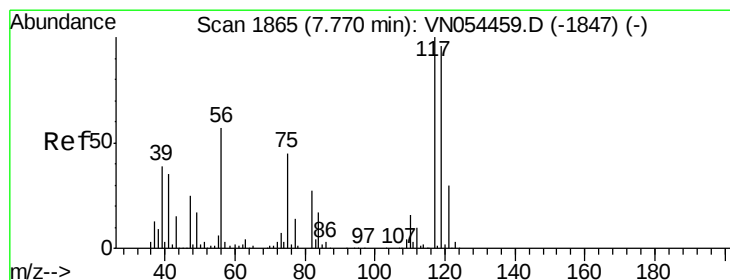
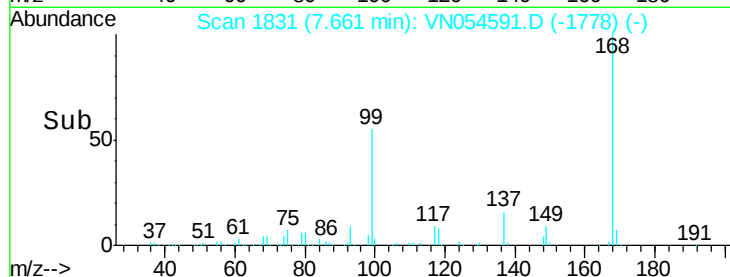
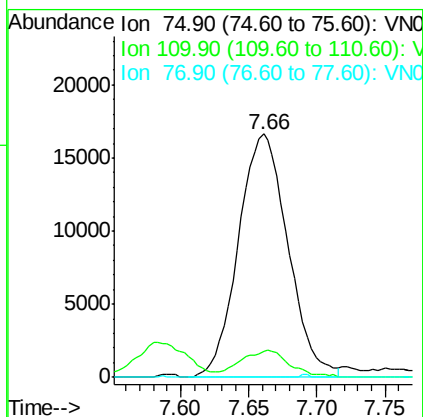
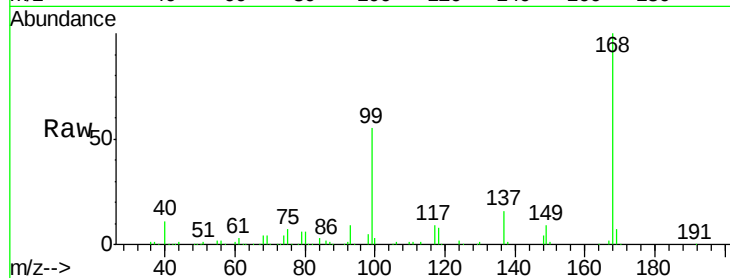




#36
 1,1-Dichloropropene
 Concen: 5.016 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

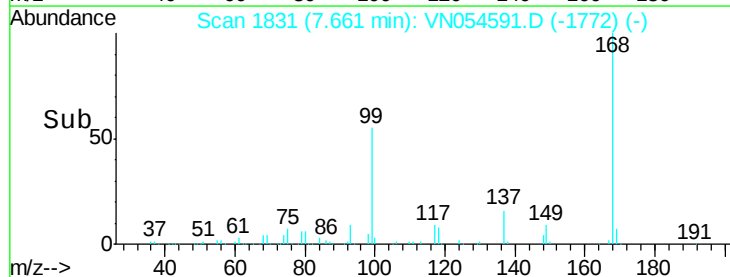
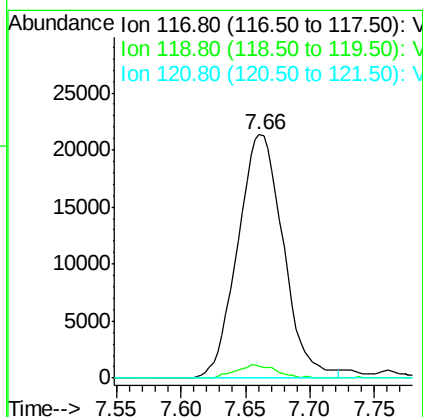
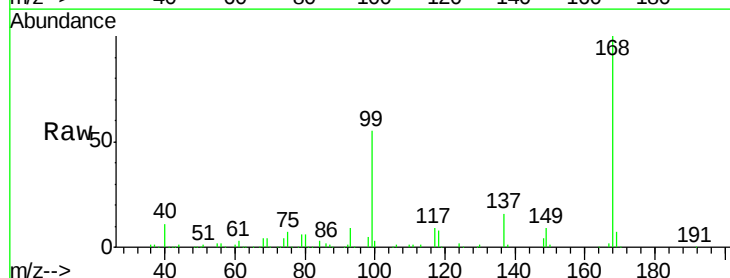
Instrument :
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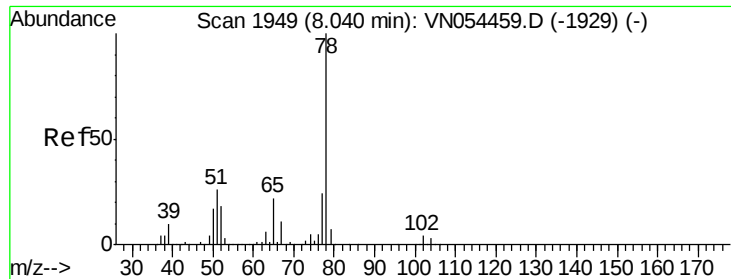
Tot Ion: 75 Resp: 42031
 Ion Ratio Lower Upper
 75 100
 110 11.1 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.448 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

Tgt Ion: 117 Resp: 52501
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.3 114.5#
 121 0.0 24.6 36.8#





#40

Benzene

Concen: 0.241 ug/l

RT: 8.04 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

Instrument :

MSVOA_N

ClientSampleId :

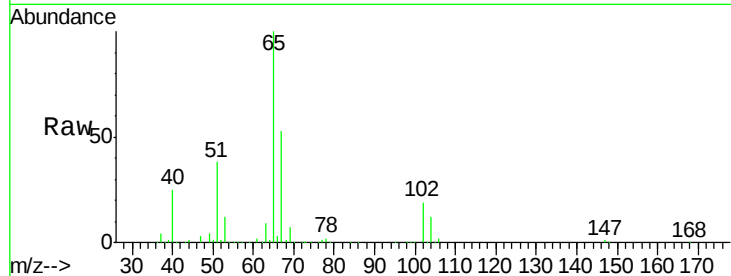
WP022SB444-190320-(14-16)ME

Tot Ion: 78 Resp: 5778

Ion Ratio Lower Upper

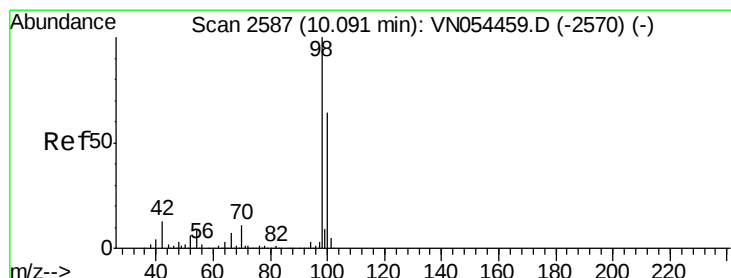
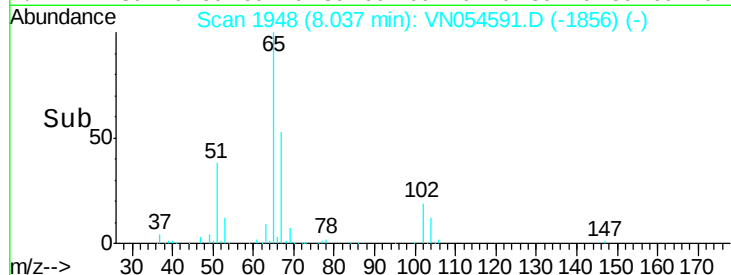
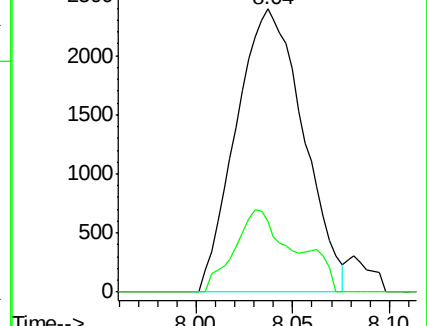
78 100

77 25.1 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 49.788 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054591.D

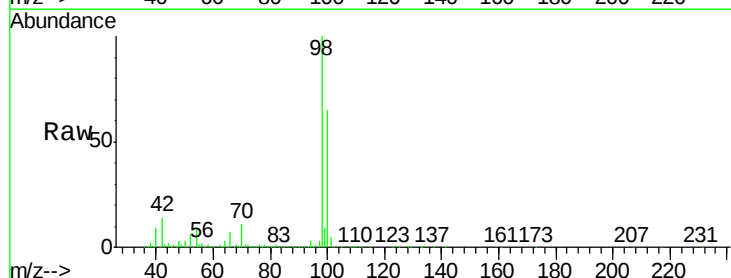
Acq: 23 Mar 2019 7:23

Tgt Ion: 98 Resp: 1080570

Ion Ratio Lower Upper

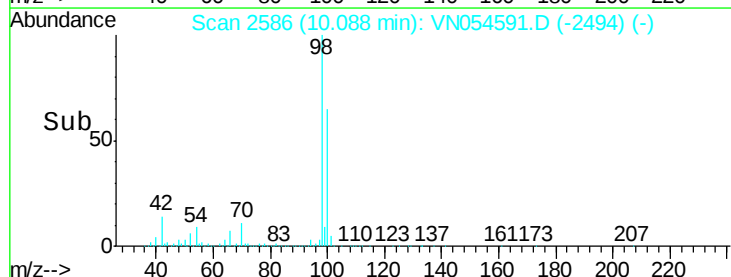
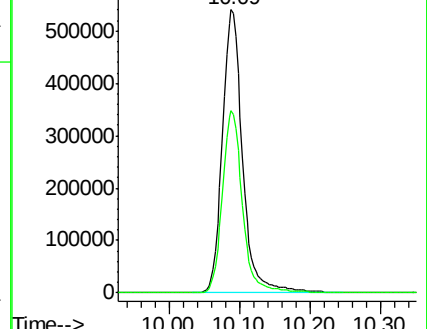
98 100

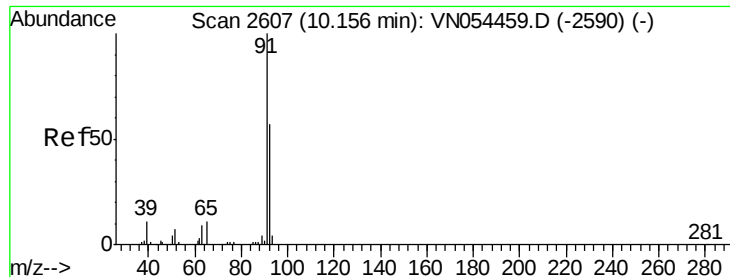
100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 0.262 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

Instrument :

MSVOA_N

ClientSampleId :

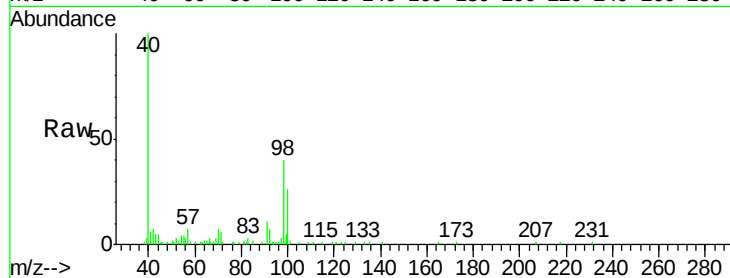
WP022SB444-190320-(14-16)ME

Tot Ion: 92 Resp: 3855

Ion Ratio Lower Upper

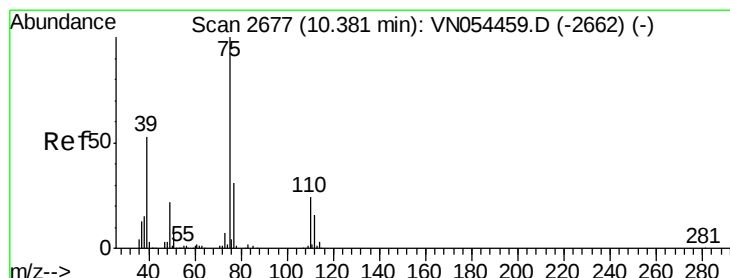
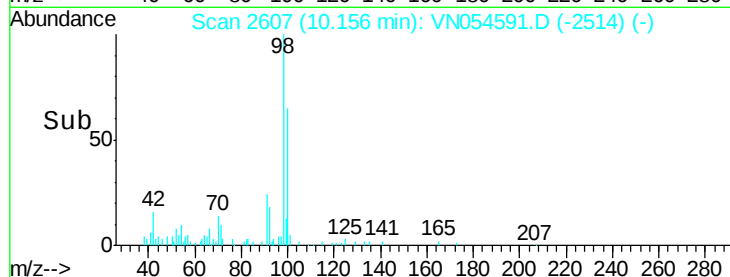
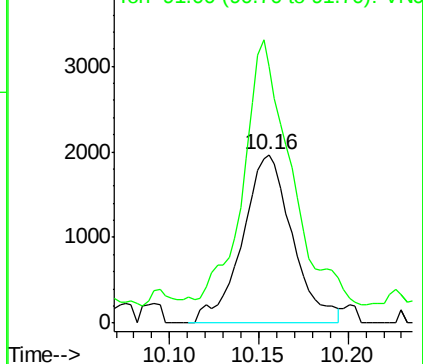
92 100

91 150.5 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 2.239 ug/l

RT: 10.27 min Scan# 2643

Delta R.T. -0.11 min

Lab File: VN054591.D

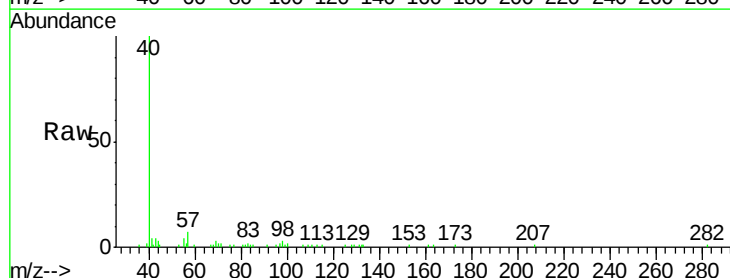
Acq: 23 Mar 2019 7:23

Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

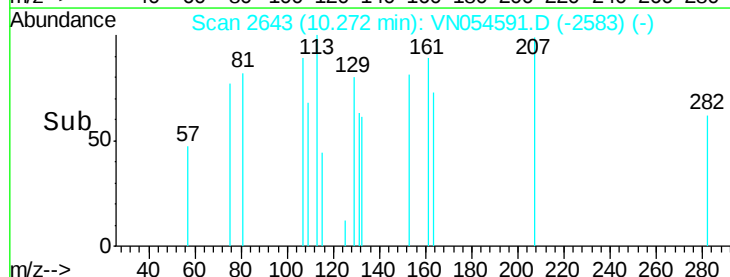
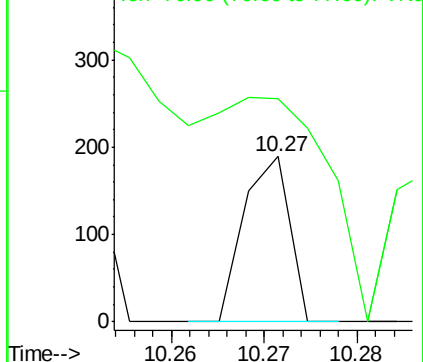
75 100

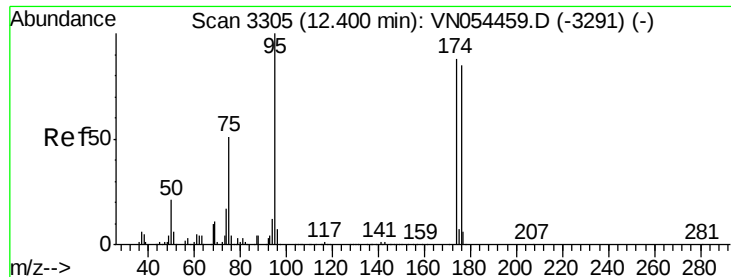
77 49.7 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#62

4-Bromofluorobenzene

Concen: 47.819 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

Instrument :

MSVOA_N

ClientSampleId :

WP022SB444-190320-(14-16)ME

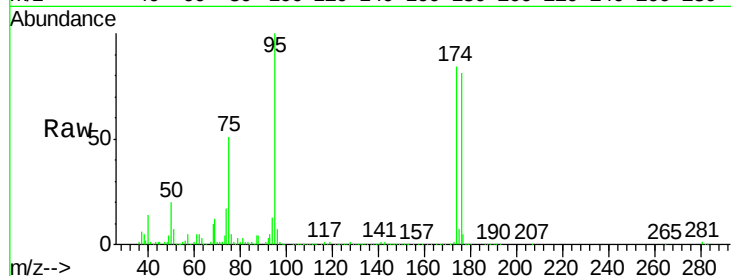
Tot Ion: 95 Resp: 353158

Ion Ratio Lower Upper

95 100

174 84.9 0.0 191.0

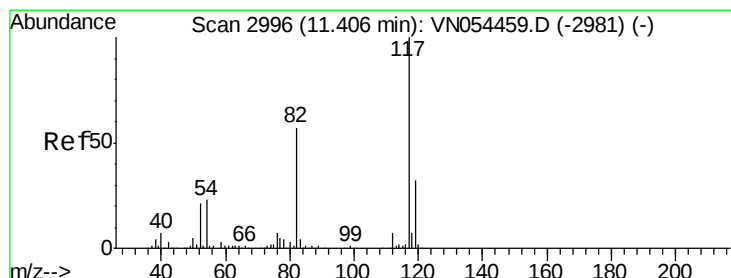
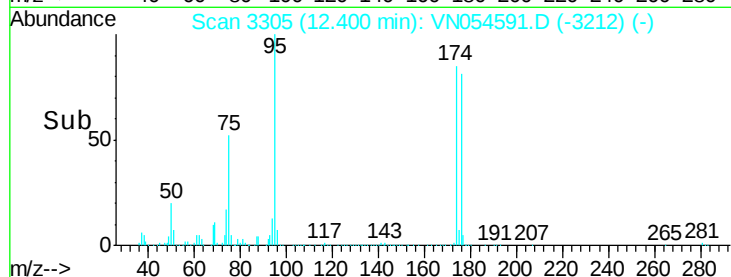
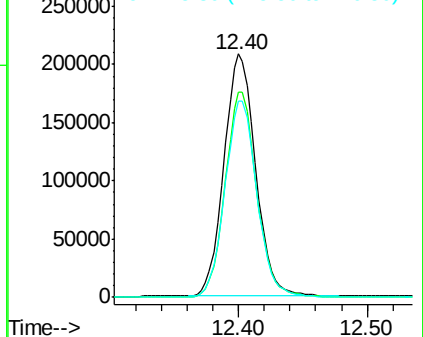
176 82.3 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

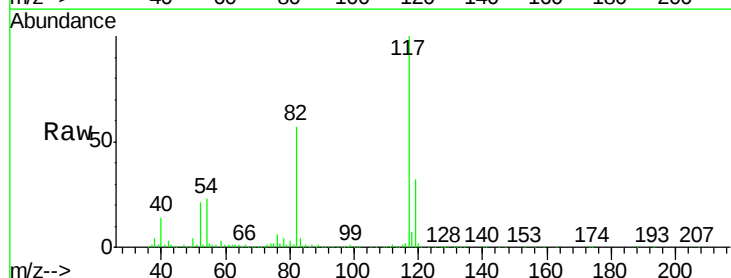
Tgt Ion: 117 Resp: 768214

Ion Ratio Lower Upper

117 100

82 57.1 40.0 60.0

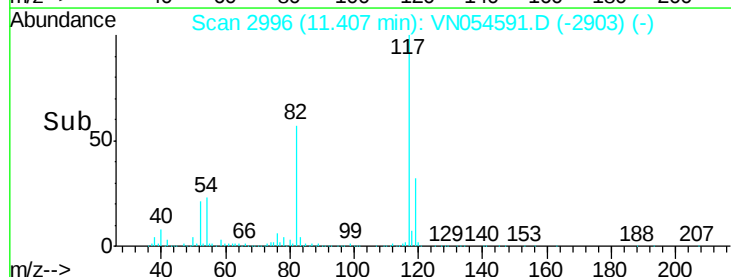
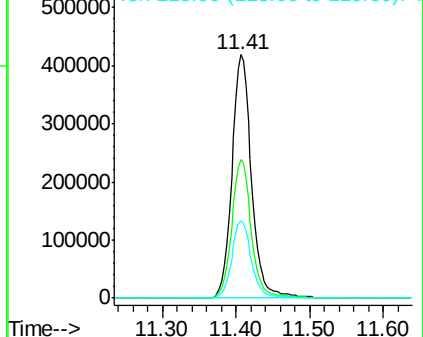
119 31.7 25.8 38.6

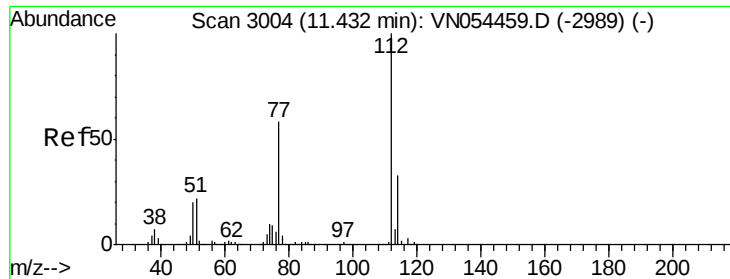


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

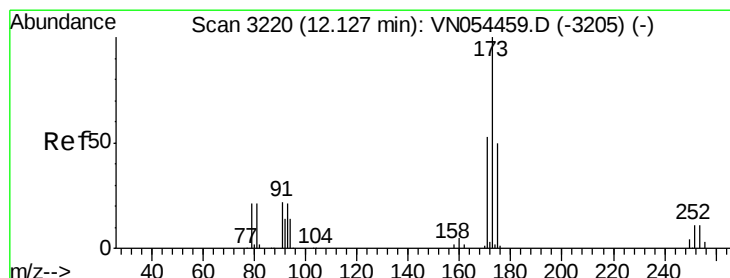
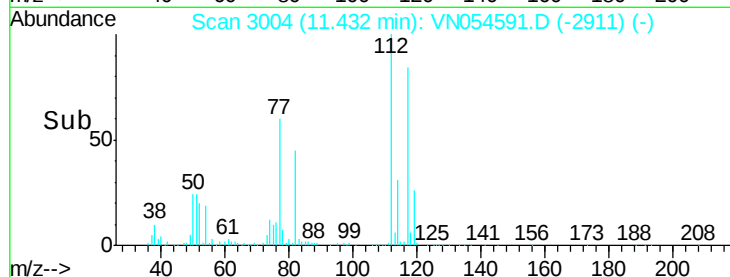
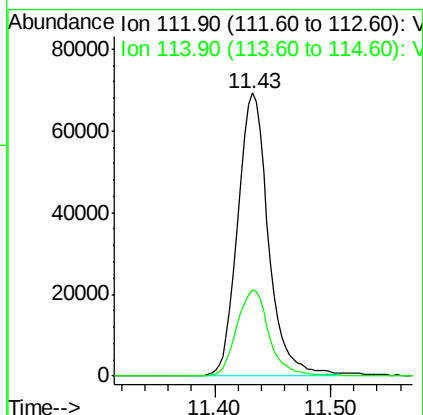
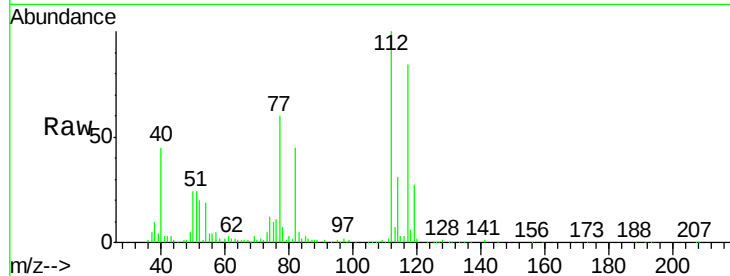




#65
Chlorobenzene
Concen: 8.165 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

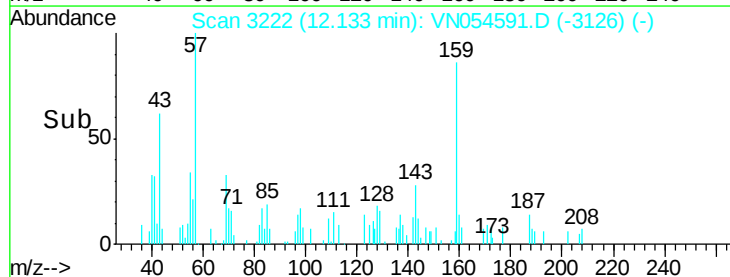
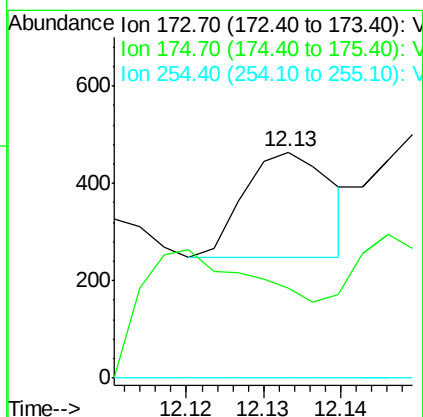
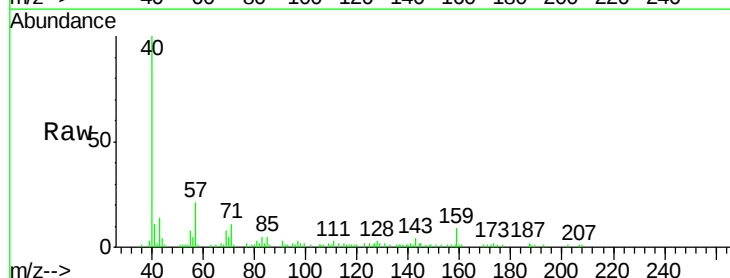
Instrument :
MSVOA_N
ClientSampleId :
WP022SB444-190320-(14-16)ME

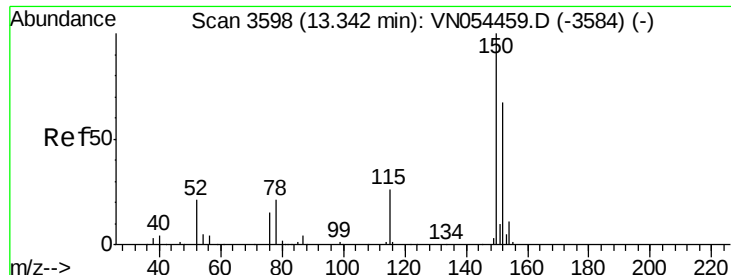
Tot Ion:112 Resp: 127580
Ion Ratio Lower Upper
112 100
114 30.5 25.9 38.9



#71
Bromoform
Concen: 2.263 ug/l
RT: 12.13 min Scan# 3222
Delta R.T. 0.01 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

Tgt Ion:173 Resp: 171
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



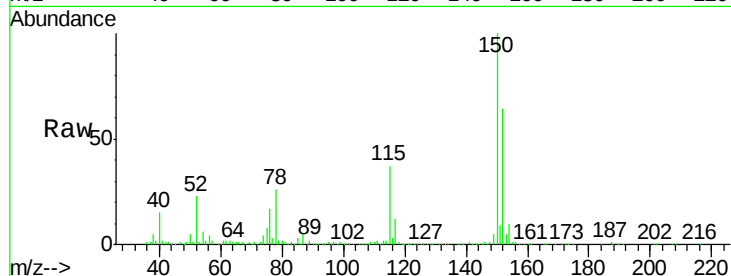


#72

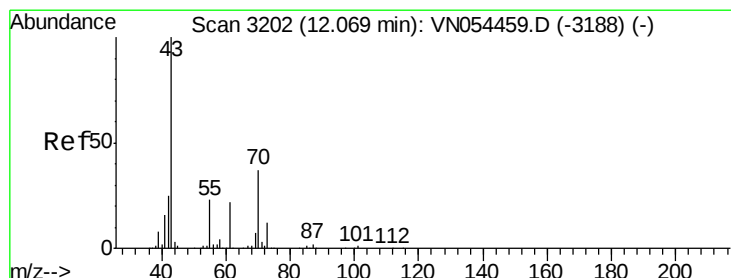
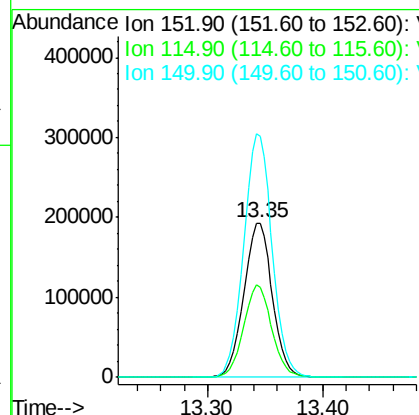
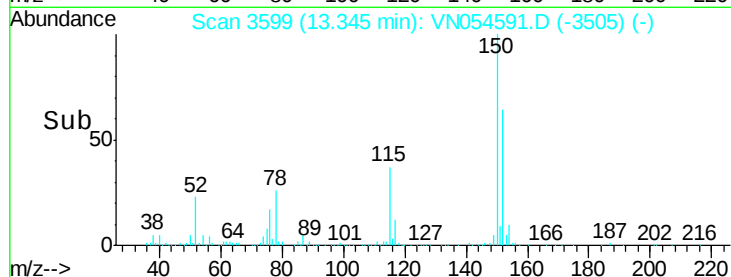
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

Instrument :
MSVOA_N
ClientSampleId :
WP022SB444-190320-(14-16)ME

Tot Ion:152 Resp: 326760
Ion Ratio Lower Upper
152 100
115 58.5 27.2 81.6
150 156.8 0.0 349.2



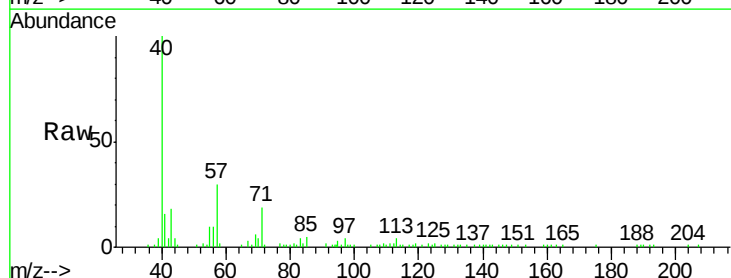
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



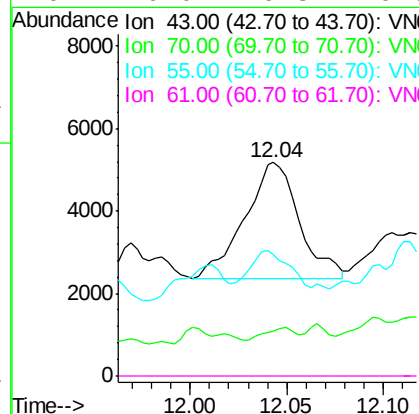
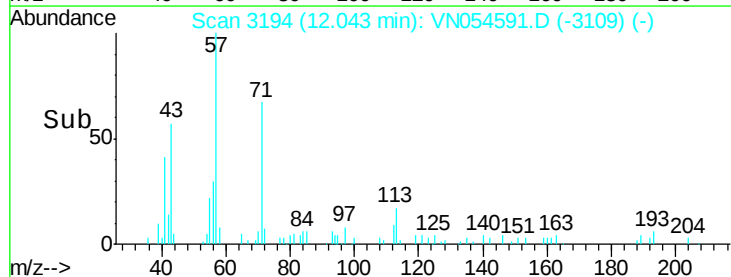
#74

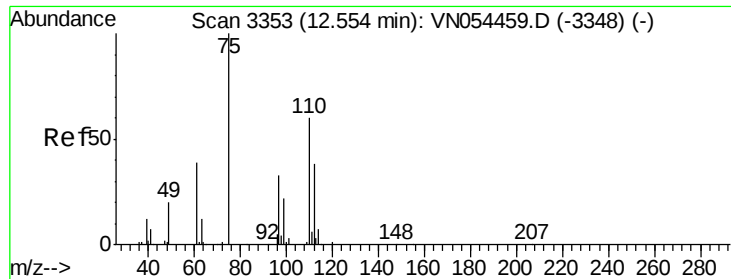
N-ethyl acetate
Concen: 0.731 ug/l
RT: 12.04 min Scan# 3194
Delta R.T. -0.03 min
Lab File: VN054591.D
Acq: 23 Mar 2019 7:23

Tgt Ion: 43 Resp: 5536
Ion Ratio Lower Upper
43 100
70 5.7 35.4 53.0#
55 22.7 19.8 29.6
61 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V

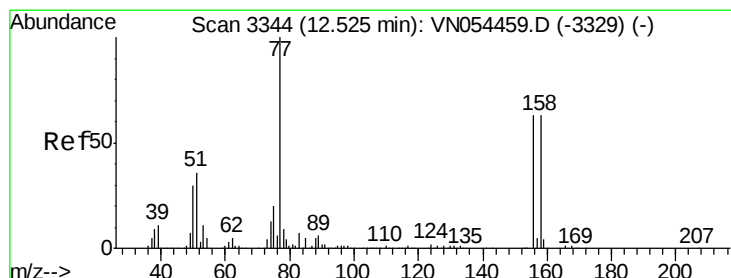
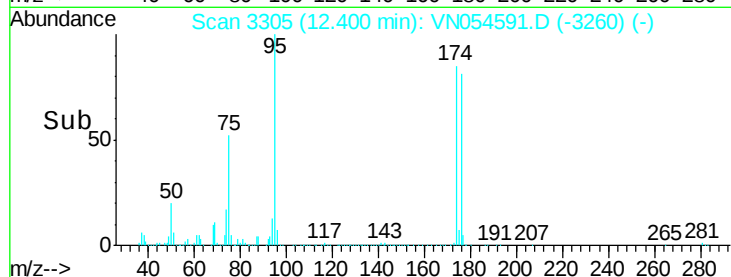
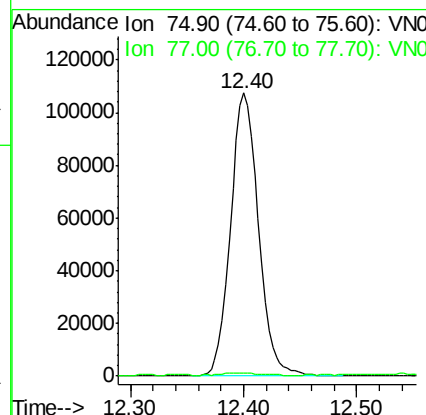
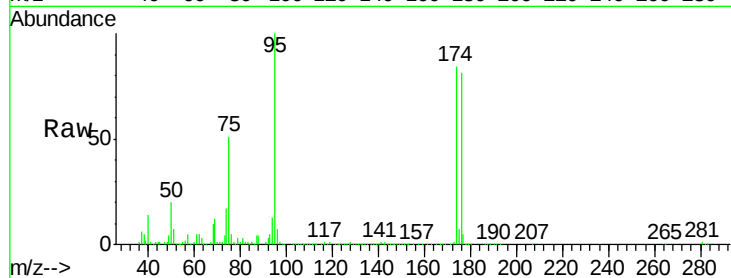




#76
 1,2,3-Trichloropropane
 Concen: 35.719 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

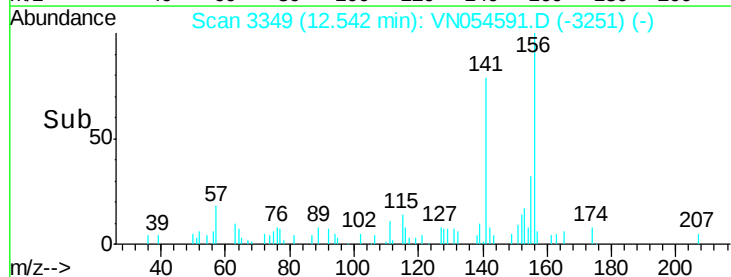
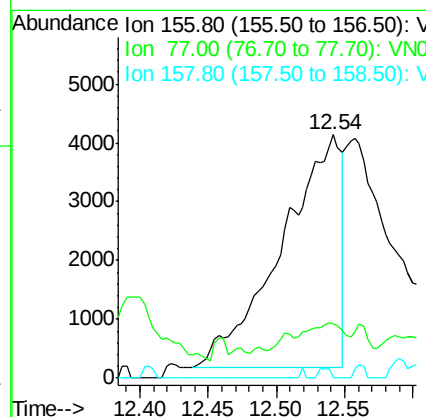
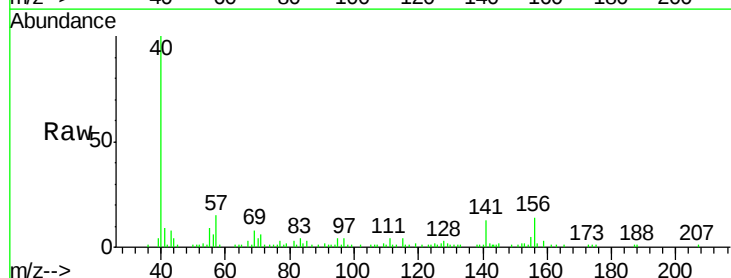
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB444-190320-(14-16)ME

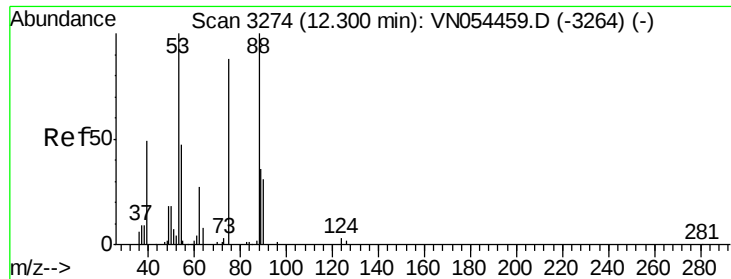
Tot Ion: 75 Resp: 185209
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#77
 Bromobenzene
 Concen: 1.836 ug/l
 RT: 12.54 min Scan# 3349
 Delta R.T. 0.02 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

Tgt Ion: 156 Resp: 11993
 Ion Ratio Lower Upper
 156 100
 77 4.0 81.5 244.4#
 158 0.8 49.0 147.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 118.496 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

Instrument :

MSVOA_N

ClientSampleId :

WP022SB444-190320-(14-16)ME

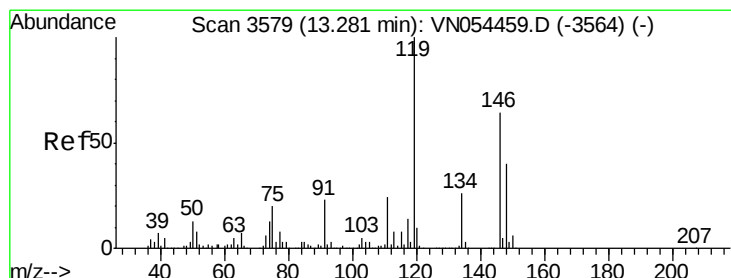
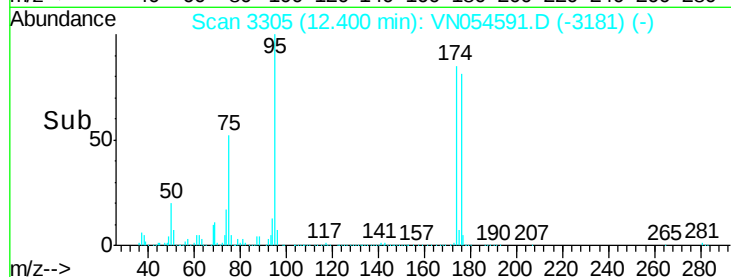
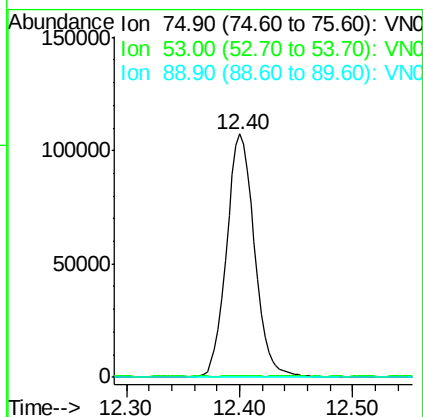
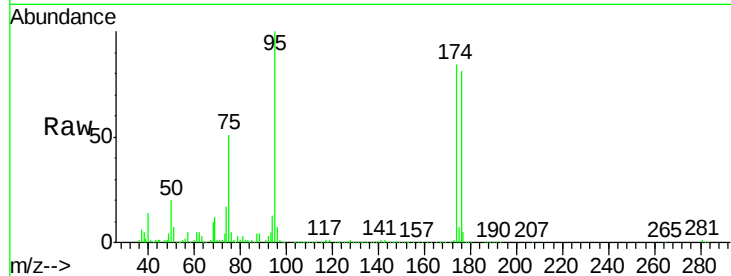
Tot Ion: 75 Resp: 185209

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.1 39.2 58.8#



#87

1,3-Dichlorobenzene

Concen: 0.815 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

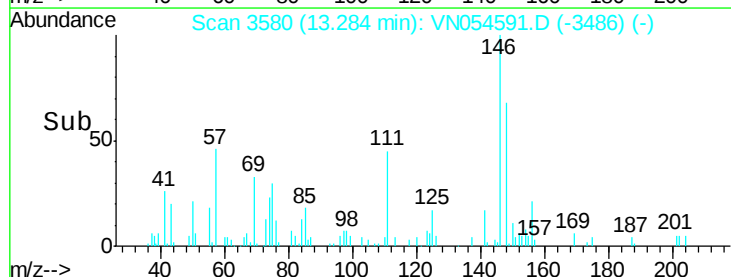
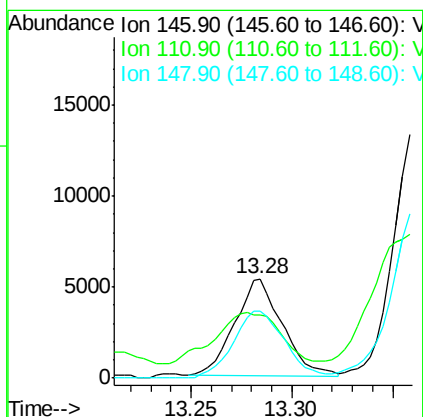
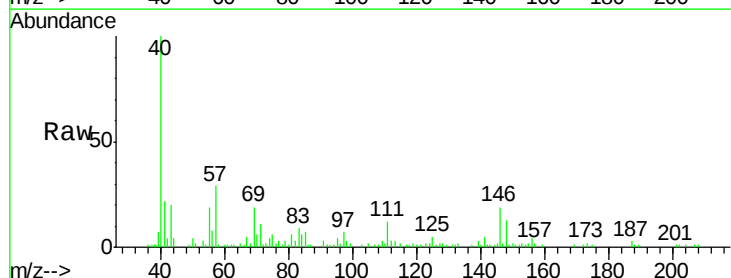
Tgt Ion: 146 Resp: 8824

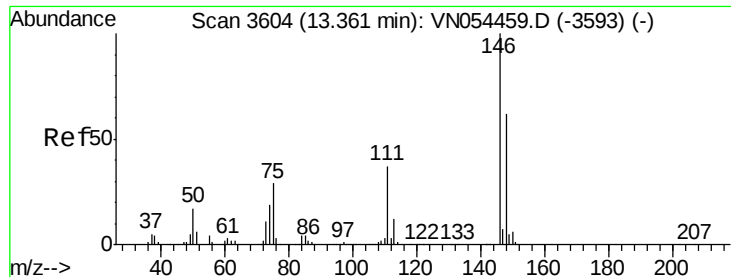
Ion Ratio Lower Upper

146 100

111 72.2 18.8 56.3#

148 74.9 32.2 96.6

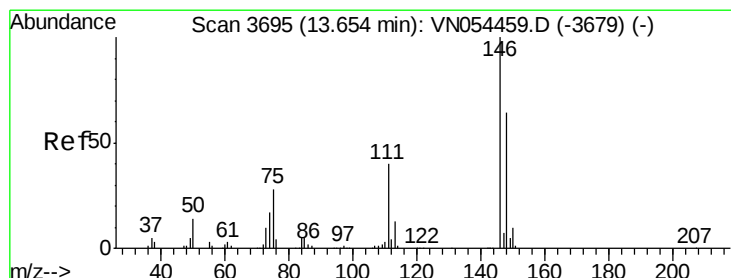
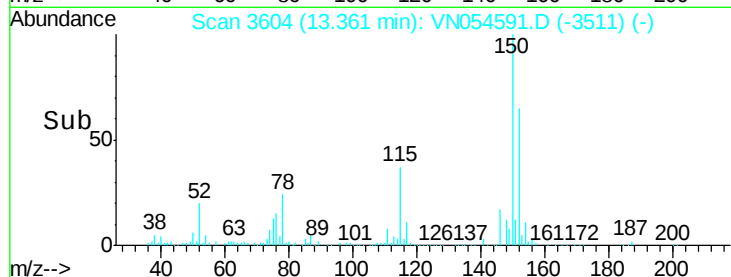
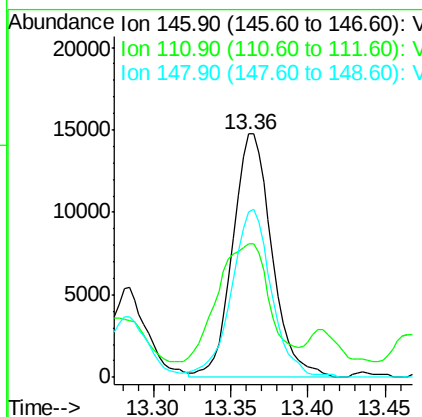
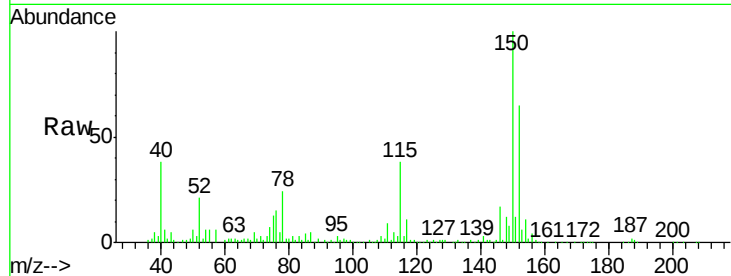




#88
 1,4-Dichlorobenzene
 Concen: 2.471 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

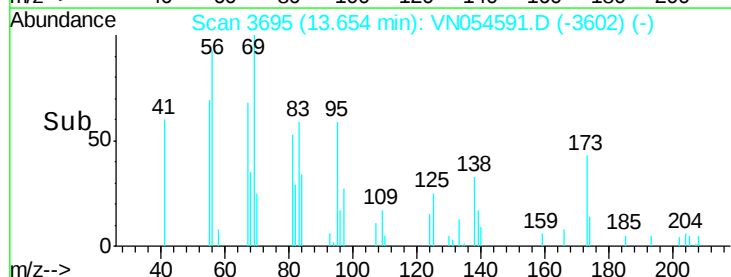
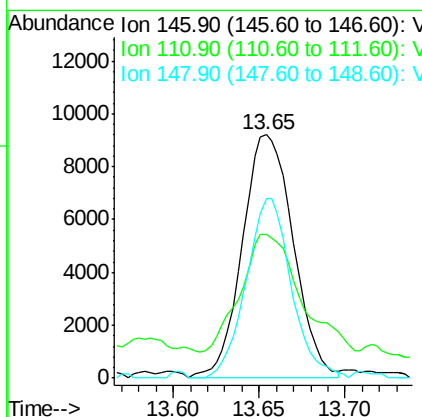
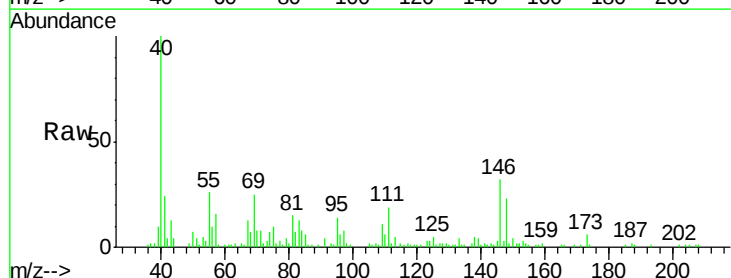
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB444-190320-(14-16)ME

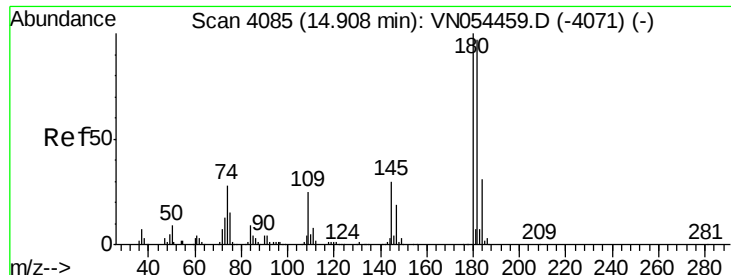
Tot Ion:146 Resp: 26021
 Ion Ratio Lower Upper
 146 100
 111 63.6 18.1 54.1#
 148 70.5 32.0 96.0



#91
 1,2-Dichlorobenzene
 Concen: 1.805 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054591.D
 Acq: 23 Mar 2019 7:23

Tgt Ion:146 Resp: 18917
 Ion Ratio Lower Upper
 146 100
 111 56.0 19.1 57.3
 148 65.4 32.4 97.0





#93

1,2,4-Trichlorobenzene

Concen: 0.848 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054591.D

Acq: 23 Mar 2019 7:23

Instrument :

MSVOA_N

ClientSampleId :

WP022SB444-190320-(14-16)ME

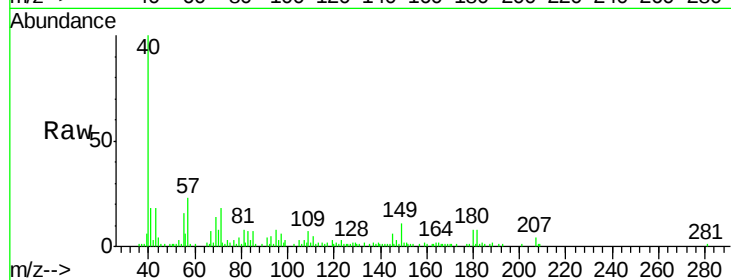
Tot Ion:180 Resp: 4430

Ion Ratio Lower Upper

180 100

182 105.7 48.0 144.2

145 25.0 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

