

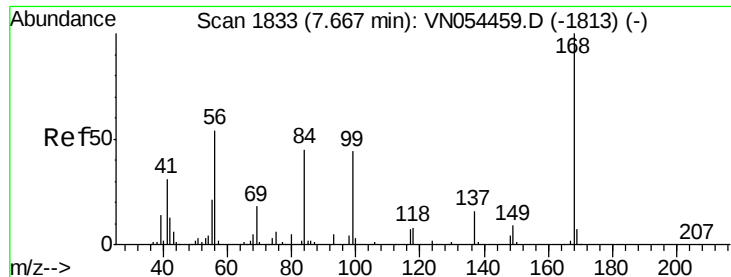
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054578.D
 Acq On : 23 Mar 2019 1:25
 Operator : JC/SP
 Sample : K2045-04
 Misc : 5.82g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB439-190318-(21-23)

Quant Time: Mar 23 02:39:00 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	538606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	847275	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	723972	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	293489	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	342806	51.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.34%	
35) Dibromofluoromethane	7.59	113	251716	46.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.22%	
50) Toluene-d8	10.09	98	1023761	49.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.40	95	330093	47.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.54%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.19	62	22210	3.158	ug/l	100
7) Trichlorofluoromethane	2.99	101	1911	0.224	ug/l	90
11) Tert butyl alcohol	4.75	59	1464	3.609	ug/l #	70
12) 1,1-Dichloroethene	3.71	96	1728	0.333	ug/l	94
16) Acetone	3.82	43	1852	0.919	ug/l #	38
18) Methyl Acetate	4.34	43	2274	0.507	ug/l #	64
20) Methylene Chloride	4.54	84	2948	0.497	ug/l #	75
21) trans-1,2-Dichloroethene	5.02	96	1117	0.211	ug/l #	36
27) cis-1,2-Dichloroethene	6.82	96	82977	13.114	ug/l	98
30) Chloroform	7.37	83	4886	0.482	ug/l	90
31) Cyclohexane	7.66	56	11597	Below Cal	#	10
36) 1,1-Dichloropropene	7.66	75	39108	4.937	ug/l #	47
38) Carbon Tetrachloride	7.66	117	49449	6.423	ug/l #	16
44) Trichloroethene	8.83	130	128127	20.344	ug/l	93
49) 1,4-Dioxane	8.92	88	71	1.230	ug/l #	1
52) Toluene	10.15	92	4329	0.311	ug/l	94
53) t-1,3-Dichloropropene	10.25	75	126	2.247	ug/l #	42
59) 2-Hexanone	10.75	43	853	0.248	ug/l	73
71) Bromoform	12.41	173	592	2.376	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	168316	36.141	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	168316	119.859	ug/l #	11

(#) = 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

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

Instrument :

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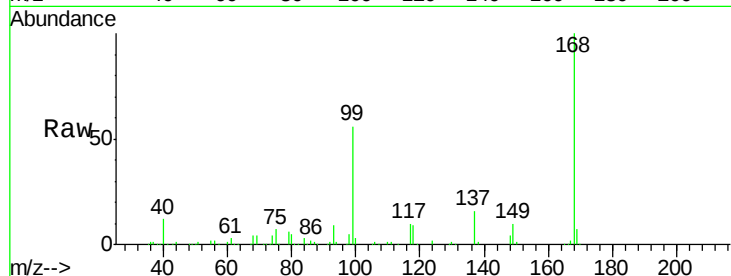
WP022SB439-190318-(21-23)

Tot Ion:168 Resp: 538606

Ion Ratio Lower Upper

168 100

99 56.4 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

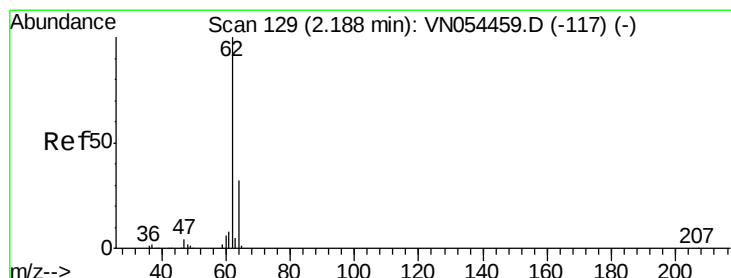
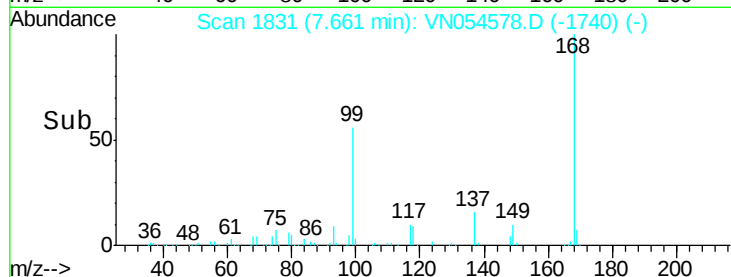
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 3.158 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054578.D

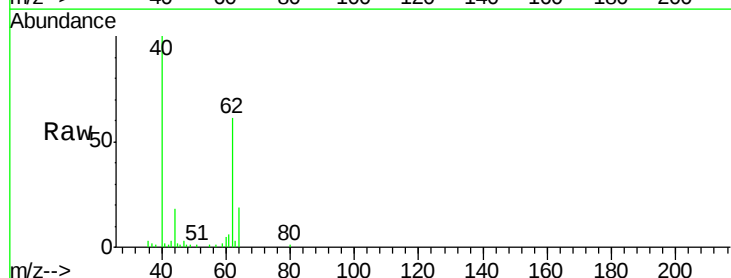
Acq: 23 Mar 2019 1:25

Tgt Ion: 62 Resp: 22210

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

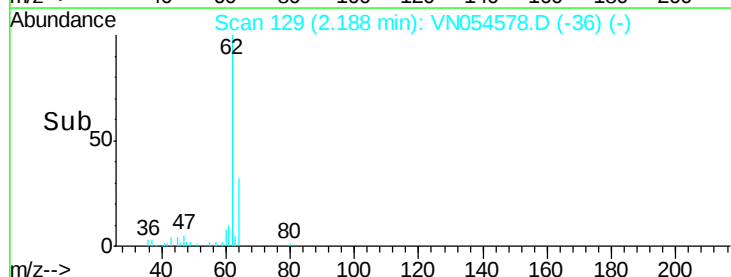
15000

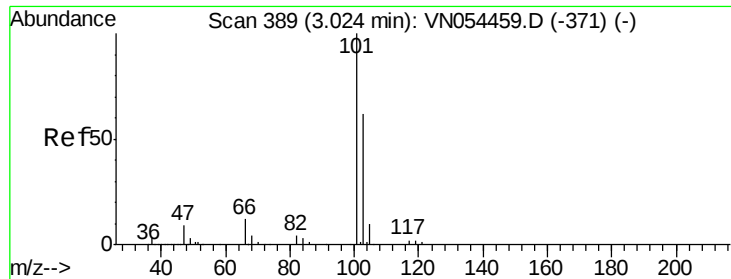
10000

5000

0

Time-->



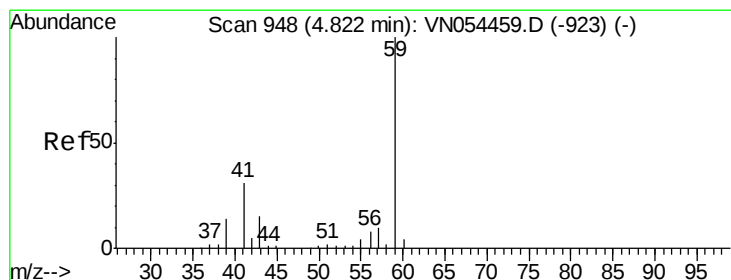
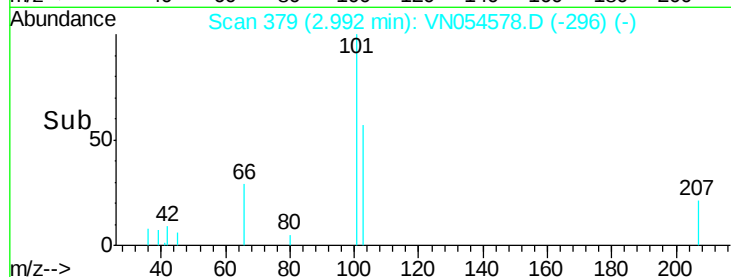
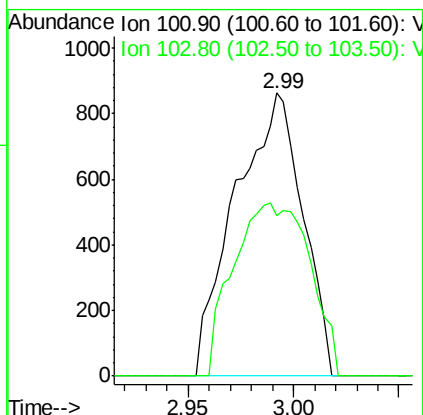
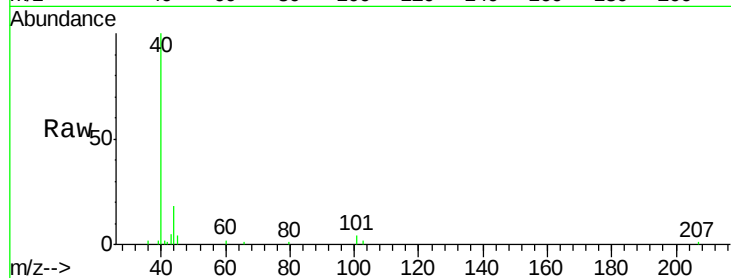


#7

Trichlorofluoromethane
Concen: 0.224 ug/l
RT: 2.99 min Scan# 379
Delta R.T. -0.03 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Instrument :
MSVOA_N
ClientSampleId :
WP022SB439-190318-(21-23)

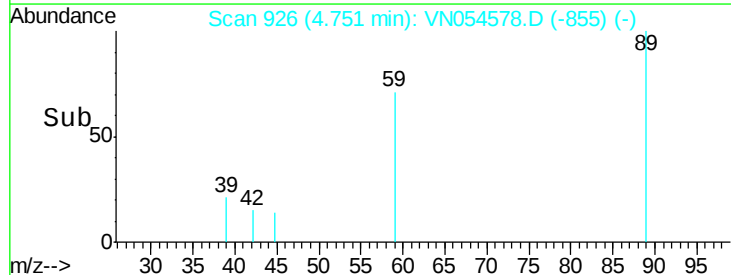
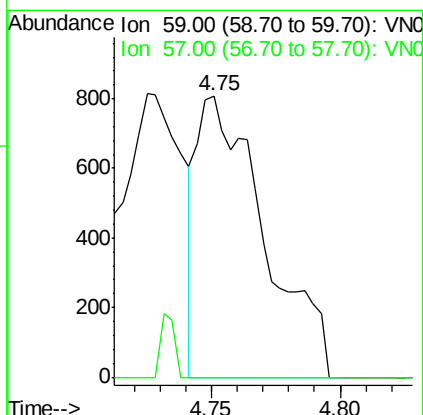
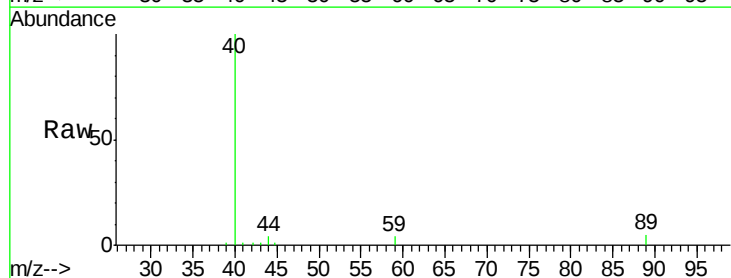
Tot Ion:101 Resp: 1911
Ion Ratio Lower Upper
101 100
103 56.5 51.4 77.2

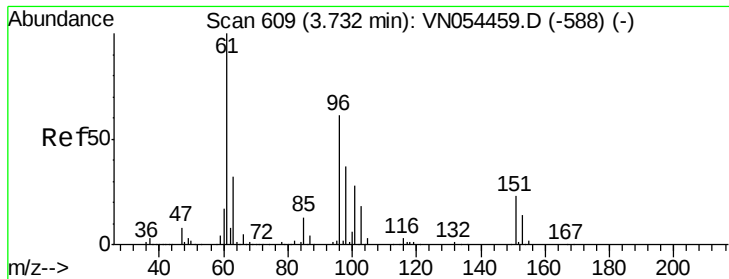


#11

Tert butyl alcohol
Concen: 3.609 ug/l
RT: 4.75 min Scan# 926
Delta R.T. -0.07 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Tgt Ion: 59 Resp: 1464
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#





#12

1,1-Dichloroethene

Concen: 0.333 ug/l

RT: 3.71 min Scan# 601

Delta R.T. -0.03 min

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(21-23)

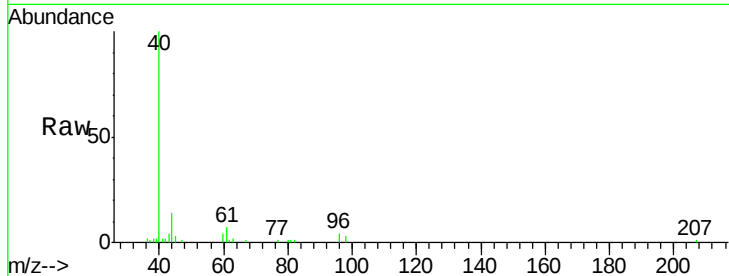
Tot Ion: 96 Resp: 1728

Ion Ratio Lower Upper

96 100

61 139.3 116.5 174.7

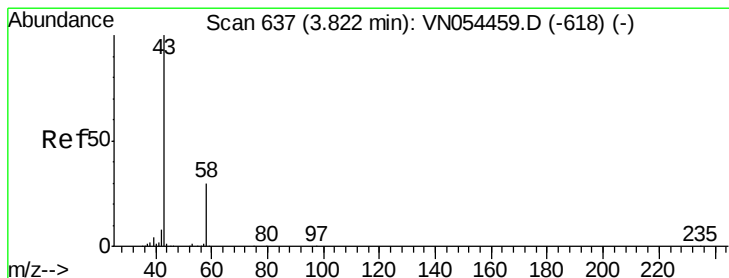
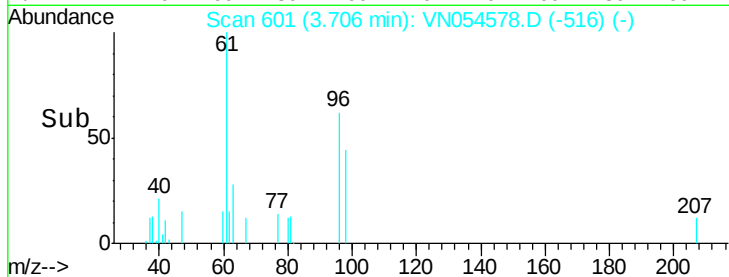
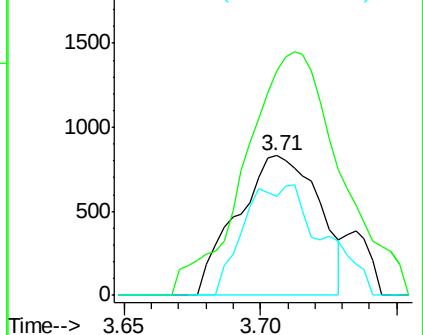
98 71.3 51.0 76.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#16

Acetone

Concen: 0.919 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054578.D

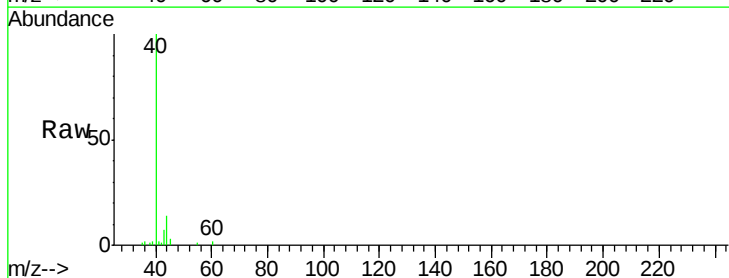
Acq: 23 Mar 2019 1:25

Tgt Ion: 43 Resp: 1852

Ion Ratio Lower Upper

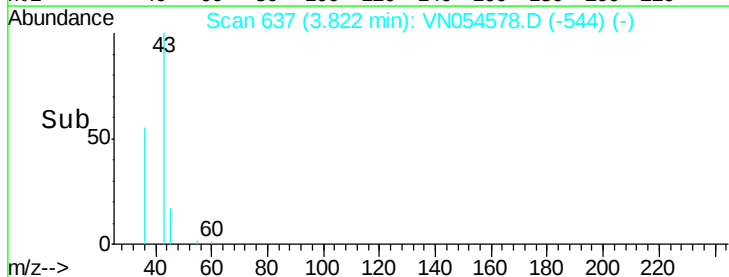
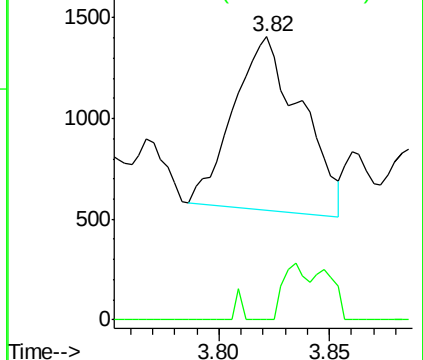
43 100

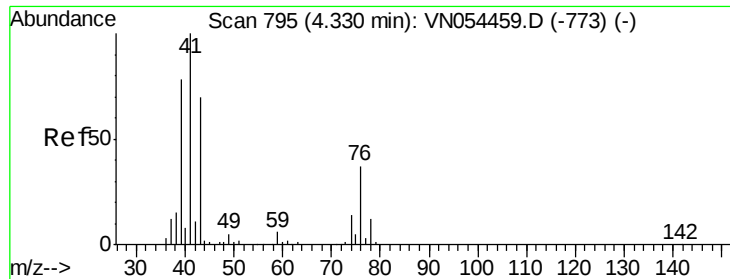
58 0.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

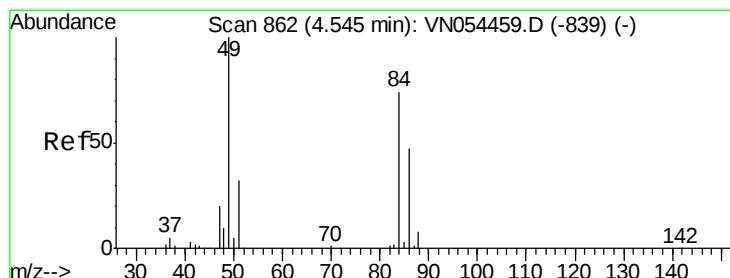
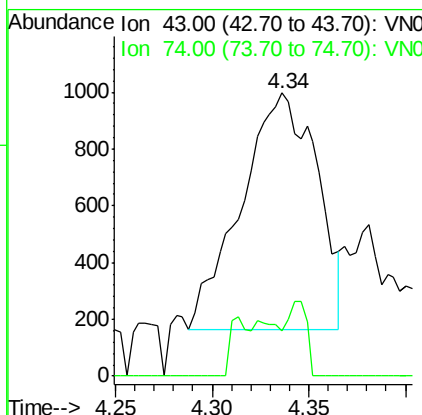
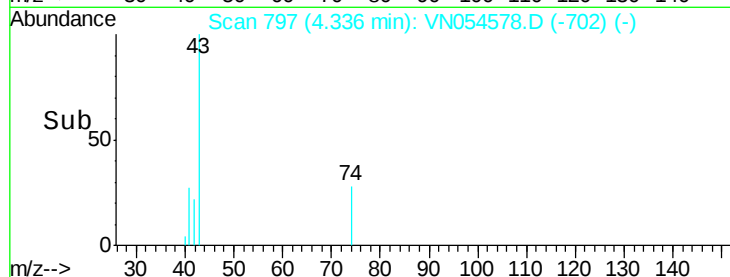
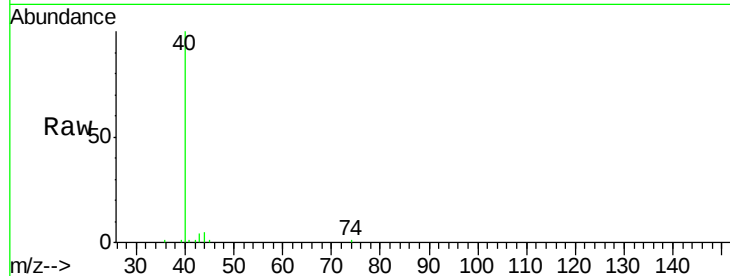




#18
Methyl Acetate
Concen: 0.507 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

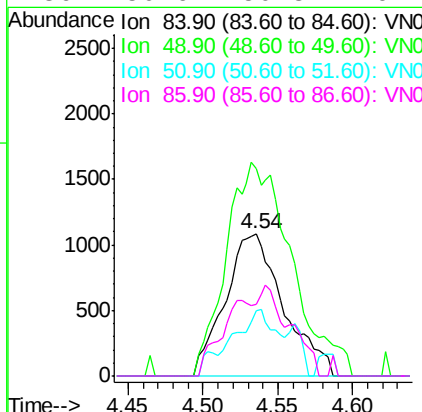
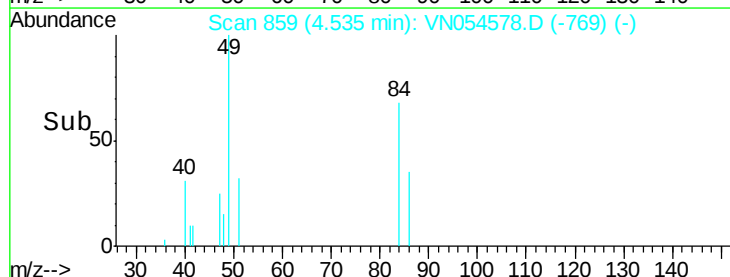
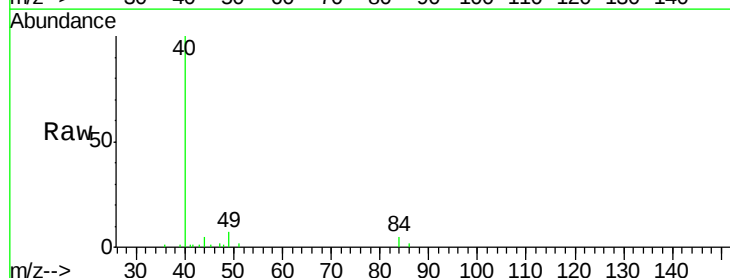
Instrument :
MSVOA_N
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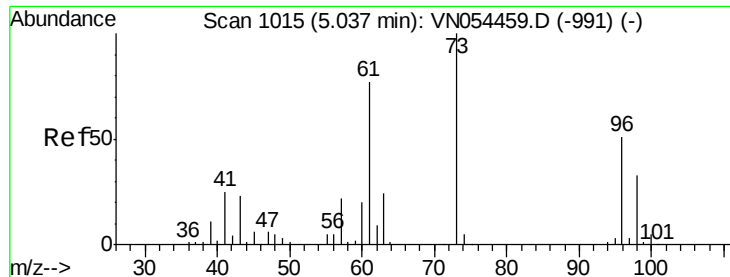
Tot Ion: 43 Resp: 2274
Ion Ratio Lower Upper
43 100
74 7.8 20.8 31.2#



#20
Methylene Chloride
Concen: 0.497 ug/l
RT: 4.54 min Scan# 859
Delta R.T. -0.01 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Tgt Ion: 84 Resp: 2948
Ion Ratio Lower Upper
84 100
49 146.1 89.7 134.5#
51 46.3 28.2 42.4#
86 50.6 50.8 76.2#

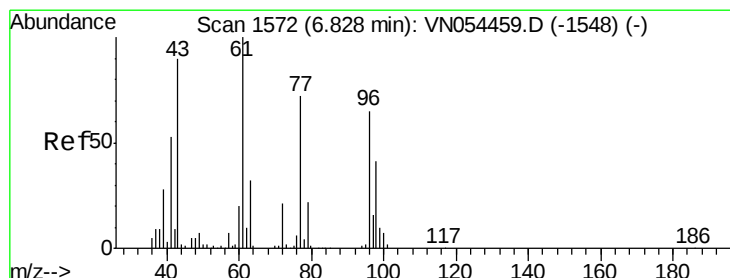
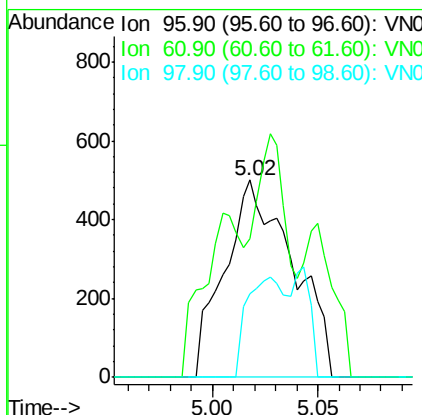
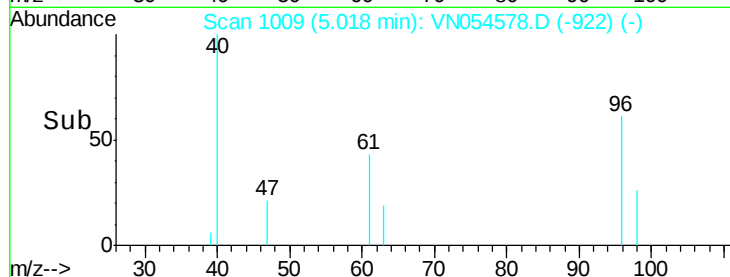
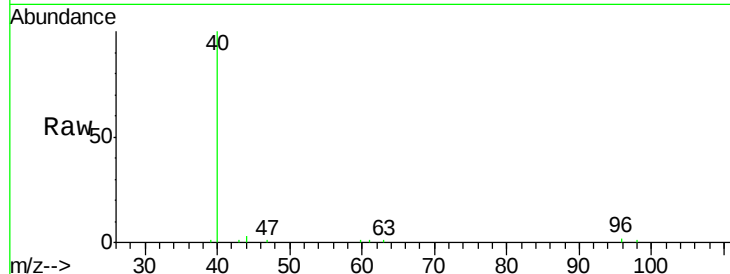




#21
trans-1,2-Dichloroethene
Concen: 0.211 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.02 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

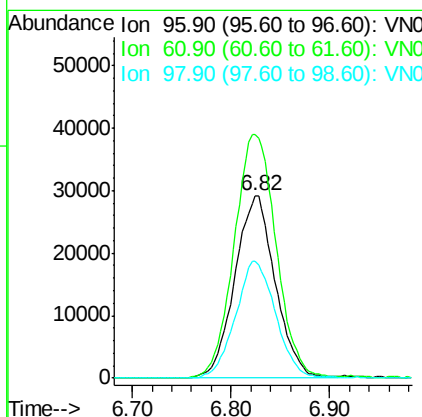
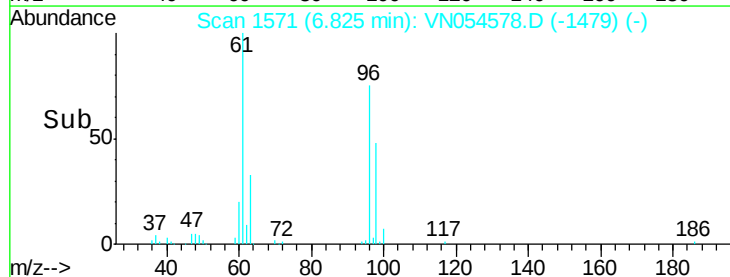
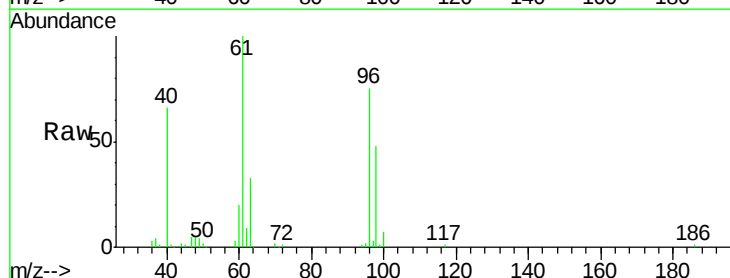
Instrument :
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ClientSampleId :
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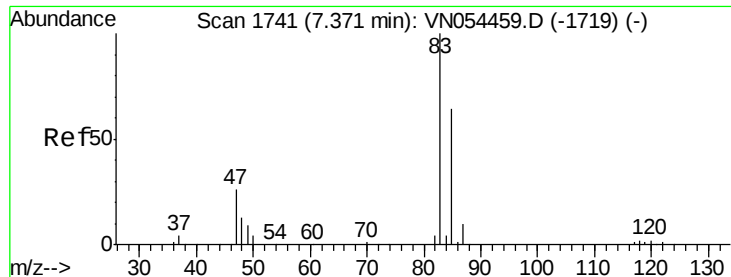
Tot Ion: 96 Resp: 1117
Ion Ratio Lower Upper
96 100
61 32.5 102.8 154.2#
98 42.1 50.0 75.0#



#27
cis-1,2-Dichloroethene
Concen: 13.114 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Tgt Ion: 96 Resp: 82977
Ion Ratio Lower Upper
96 100
61 138.6 0.0 273.0
98 63.4 0.0 130.6

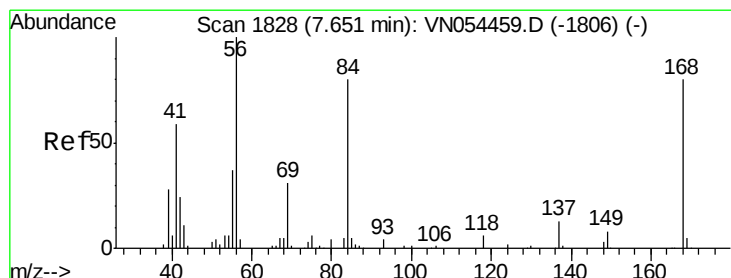
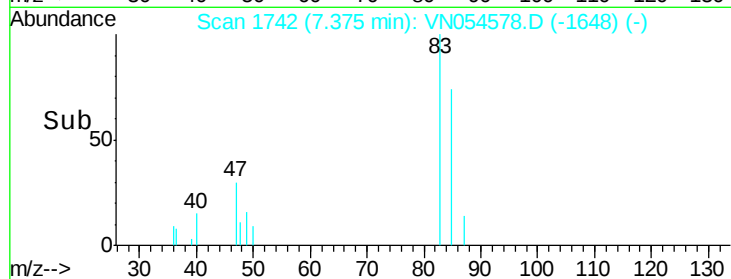
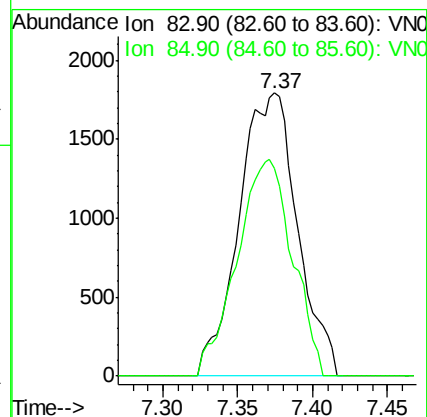
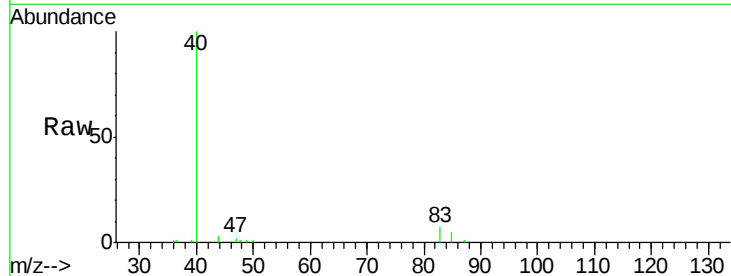




#30
Chloroform
Concen: 0.482 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

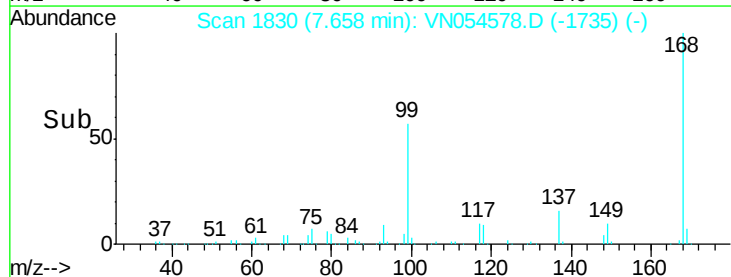
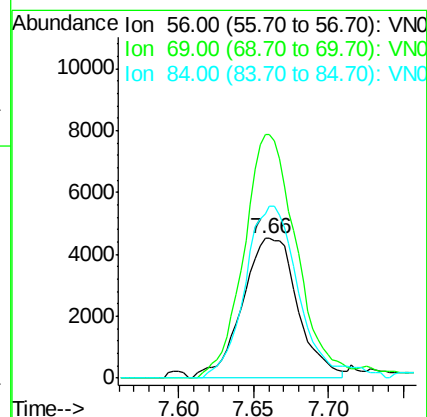
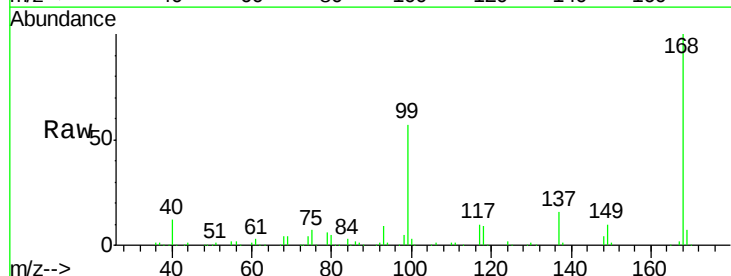
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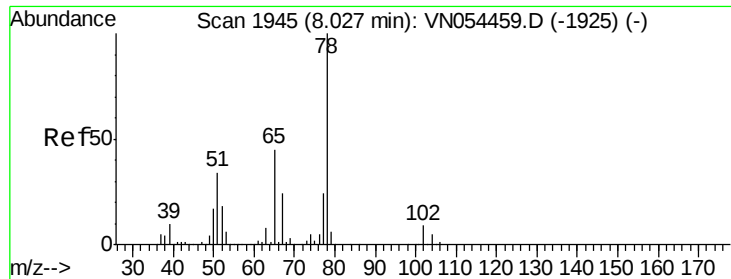
Tot Ion: 83 Resp: 4886
Ion Ratio Lower Upper
83 100
85 73.5 52.2 78.4



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Tgt Ion: 56 Resp: 11597
Ion Ratio Lower Upper
56 100
69 173.9 27.8 41.6#
84 126.3 74.6 111.8#

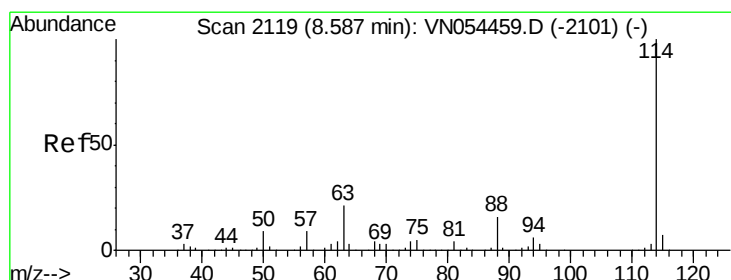
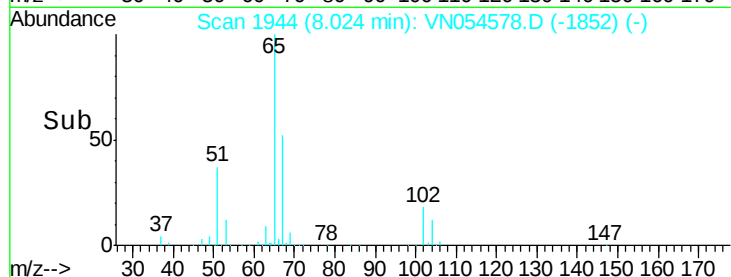
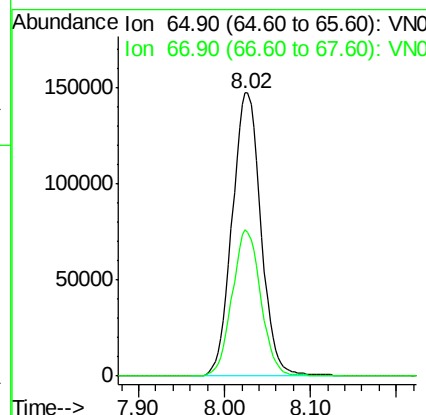
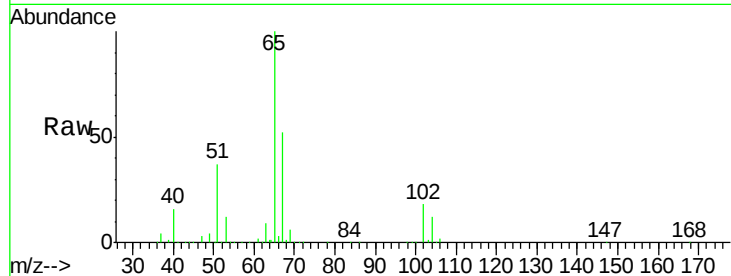




#33
 1,2-Dichloroethane-d4
 Concen: 51.170 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054578.D
 Acq: 23 Mar 2019 1:25

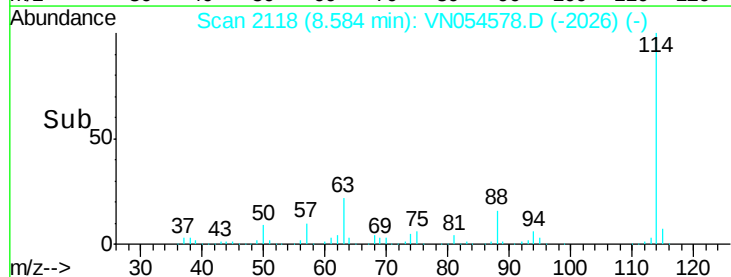
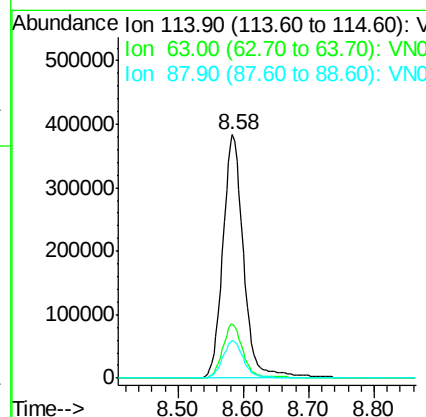
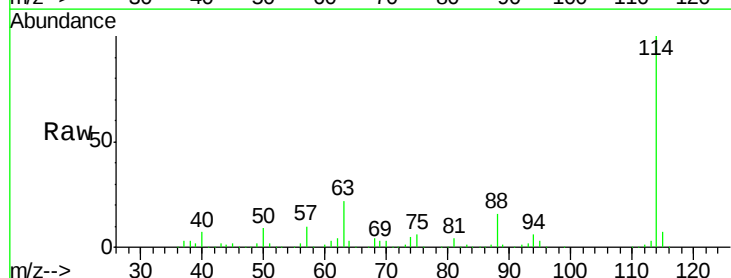
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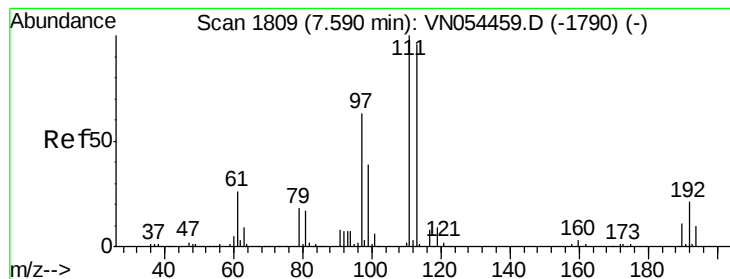
Tot Ion: 65 Resp: 342806
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054578.D
 Acq: 23 Mar 2019 1:25

Tgt Ion: 114 Resp: 847275
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 15.6 0.0 30.2





#35

Dibromofluoromethane

Concen: 46.114 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(21-23)

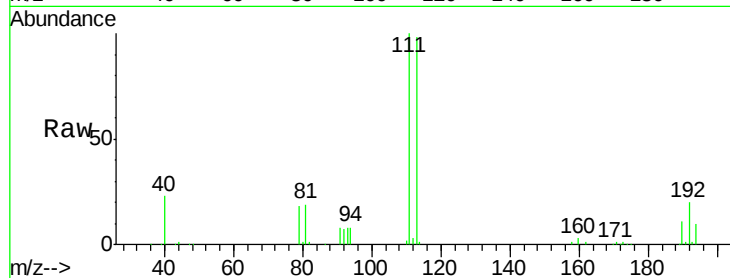
Tot Ion:113 Resp: 251716

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

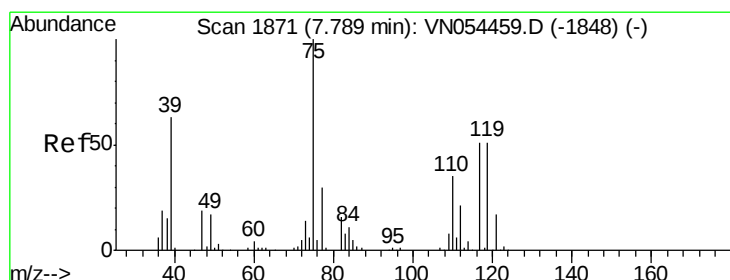
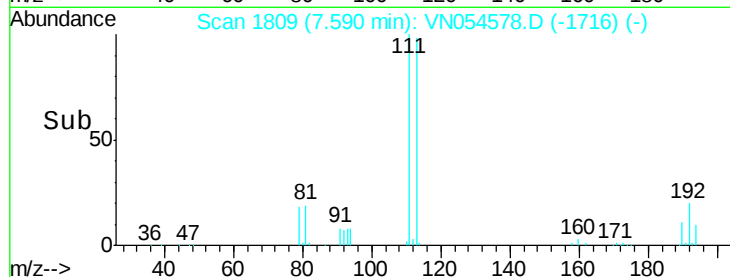
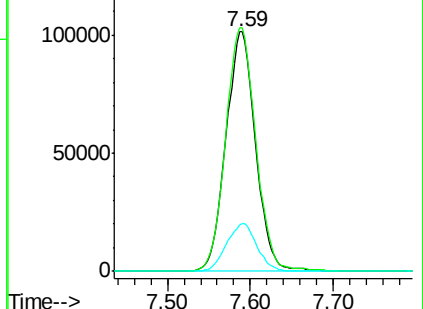
192 20.3 19.2 28.8



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: 4.937 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

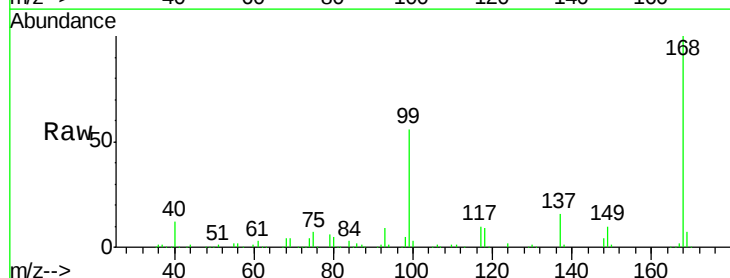
Tgt Ion: 75 Resp: 39108

Ion Ratio Lower Upper

75 100

110 8.4 19.1 57.5#

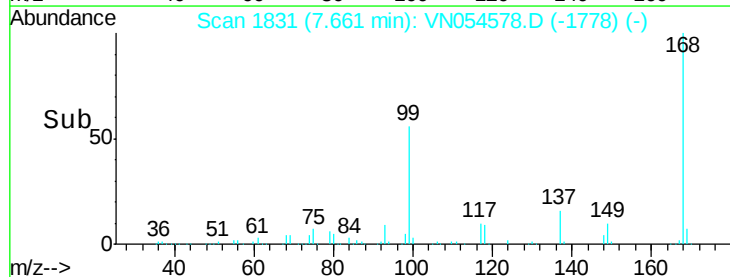
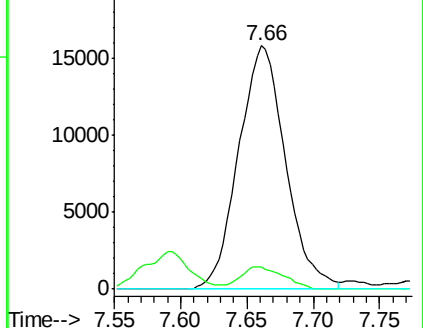
77 0.0 25.0 37.4#

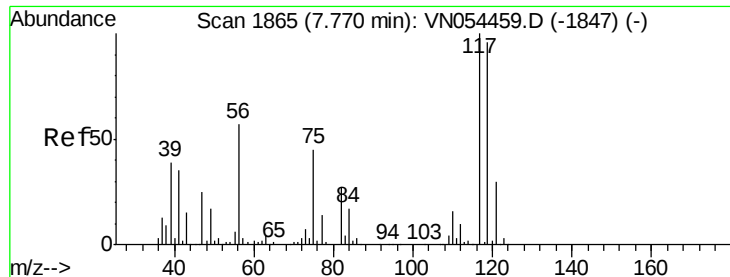


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

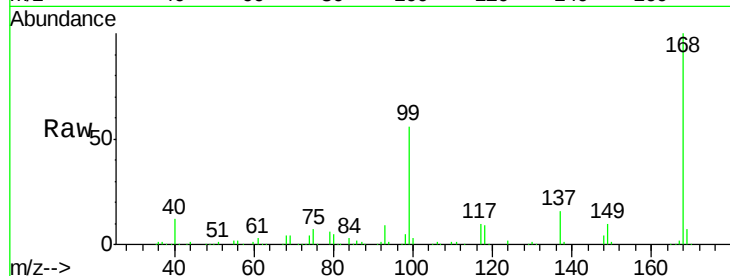




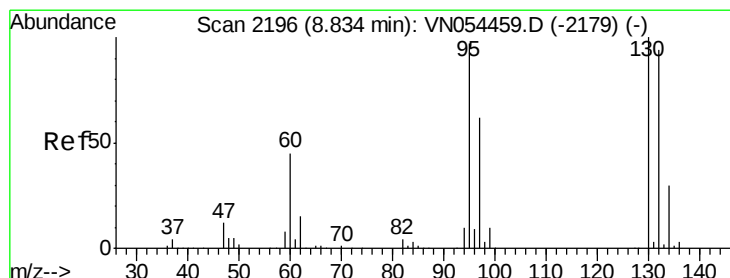
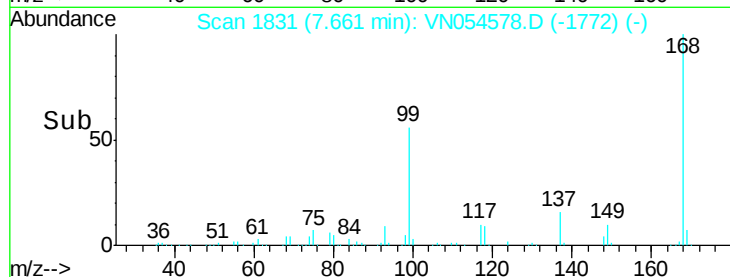
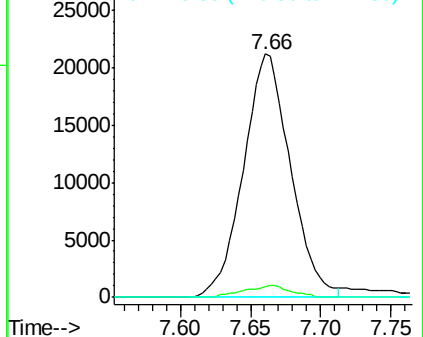
#38
Carbon Tetrachloride
Concen: 6.423 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Instrument :
MSVOA_N
ClientSampleId :
WP022SB439-190318-(21-23)

Tot Ion:117 Resp: 49449
Ion Ratio Lower Upper
117 100
119 4.3 76.3 114.5#
121 0.0 24.6 36.8#

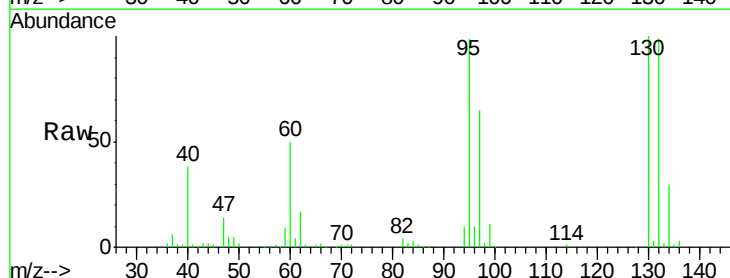


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

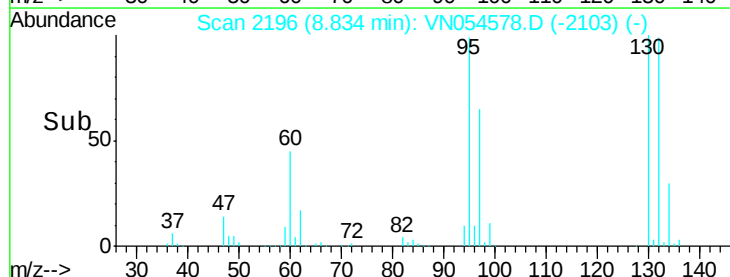
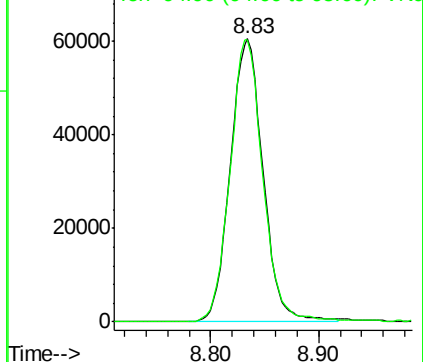


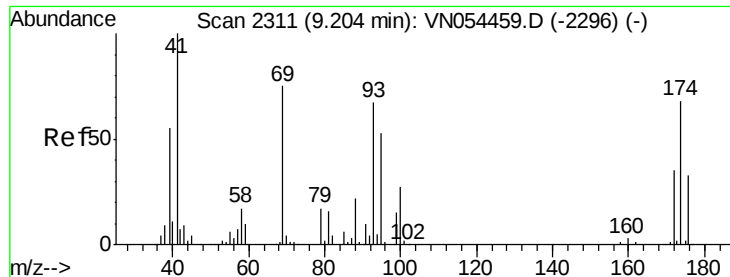
#44
Trichloroethene
Concen: 20.344 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Tgt Ion:130 Resp: 128127
Ion Ratio Lower Upper
130 100
95 99.5 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 1.230 ug/l

RT: 8.92 min Scan# 2224

Delta R.T. -0.28 min

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

Instrument :

MSVOA_N

ClientSampleId :

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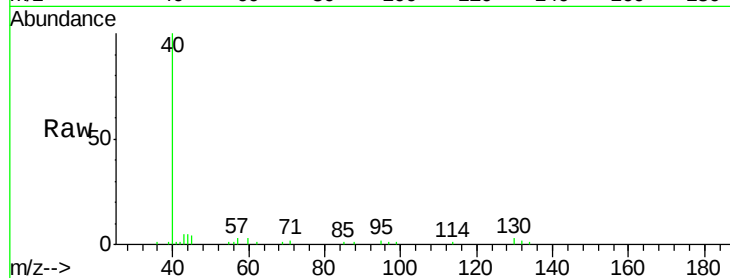
Tot Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 469.0 24.1 36.1#

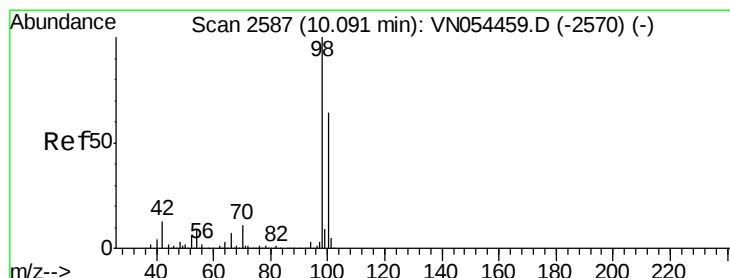
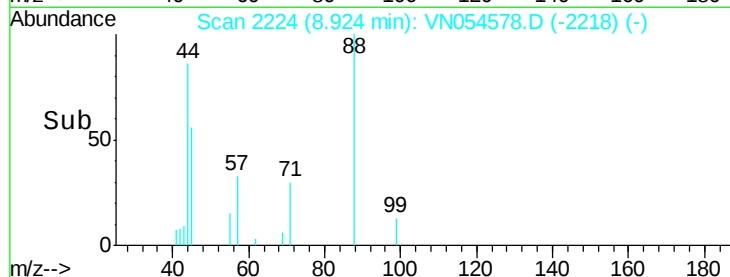
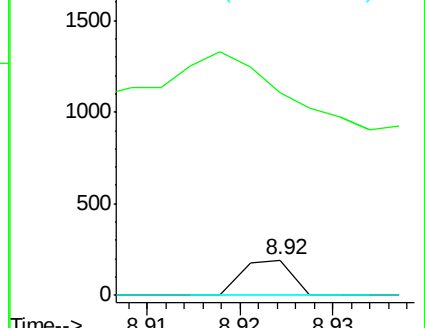
58 0.0 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.889 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054578.D

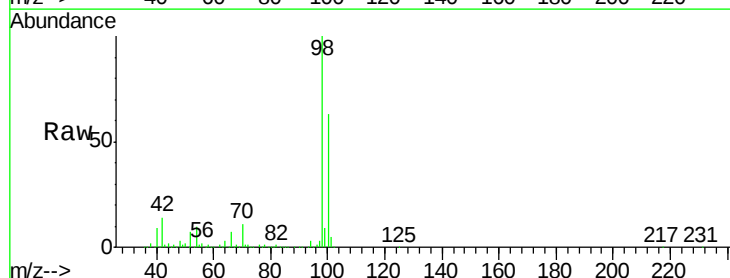
Acq: 23 Mar 2019 1:25

Tgt Ion: 98 Resp: 1023761

Ion Ratio Lower Upper

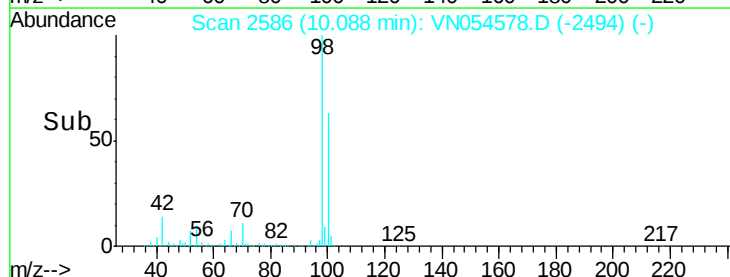
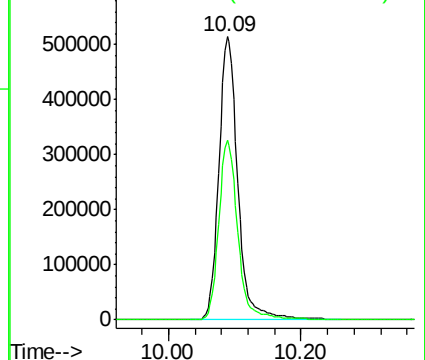
98 100

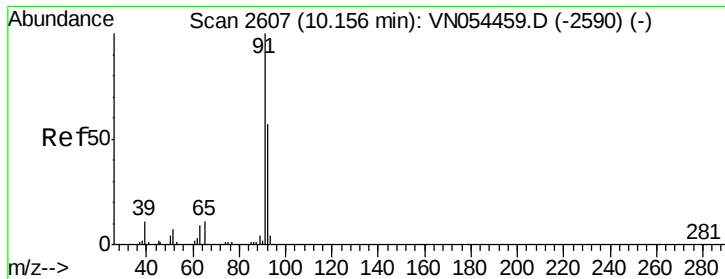
100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 0.311 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.01 min

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

Instrument :

MSVOA_N

ClientSampleId :

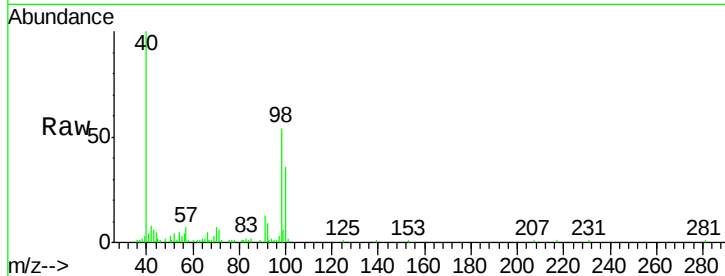
WP022SB439-190318-(21-23)

Tot Ion: 92 Resp: 4329

Ion Ratio Lower Upper

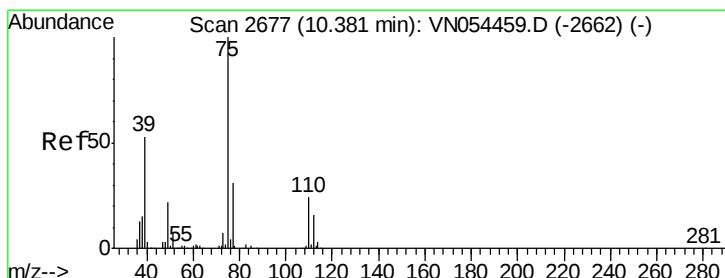
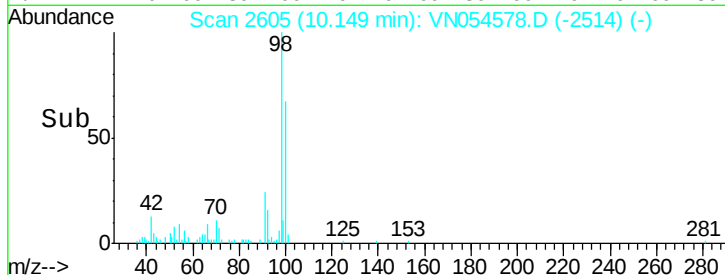
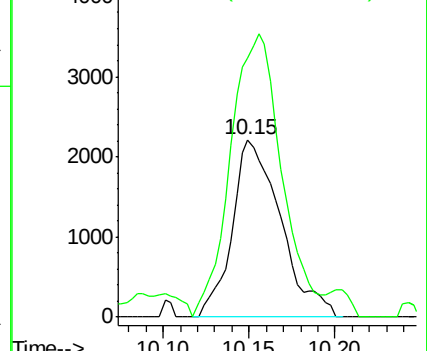
92 100

91 167.9 140.7 211.1



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: 2.247 ug/l

RT: 10.25 min Scan# 2636

Delta R.T. -0.13 min

Lab File: VN054578.D

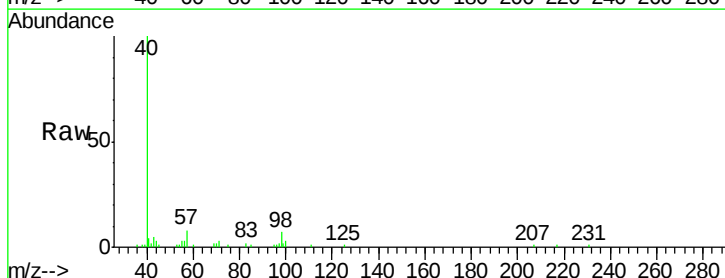
Acq: 23 Mar 2019 1:25

Tgt Ion: 75 Resp: 126

Ion Ratio Lower Upper

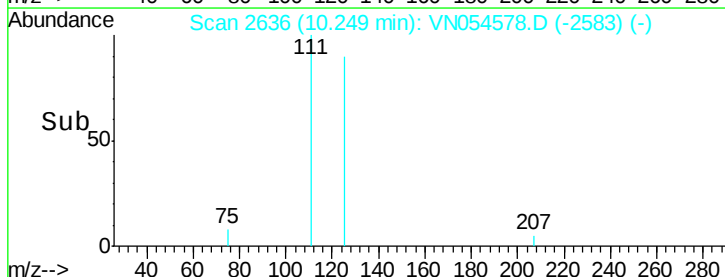
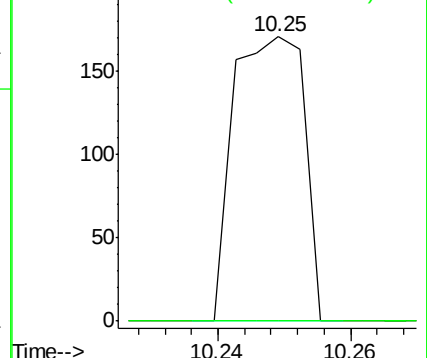
75 100

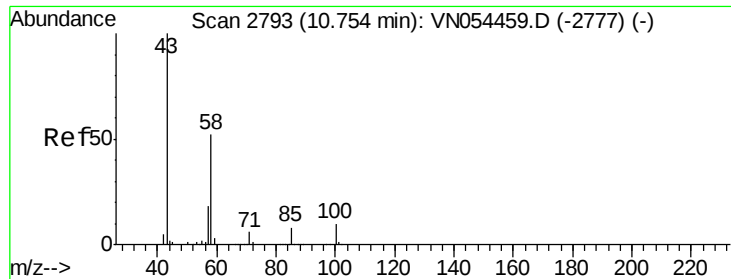
77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

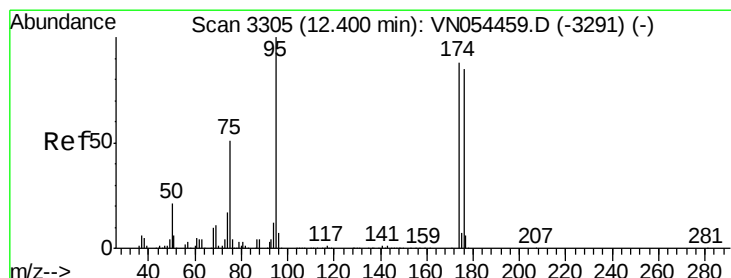
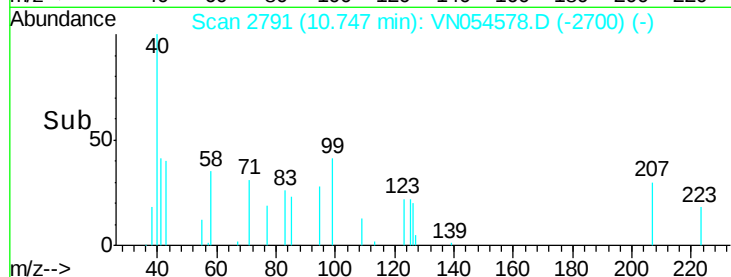
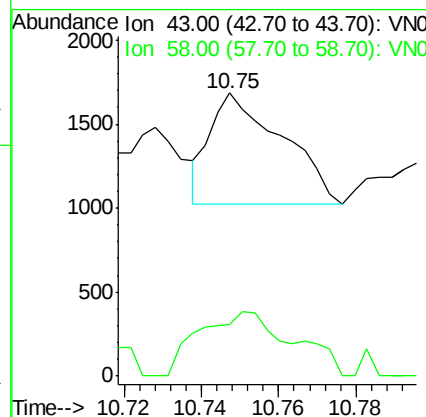
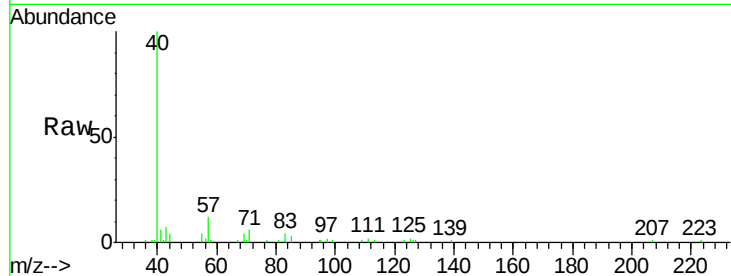




#59
2-Hexanone
Concen: 0.248 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. -0.01 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

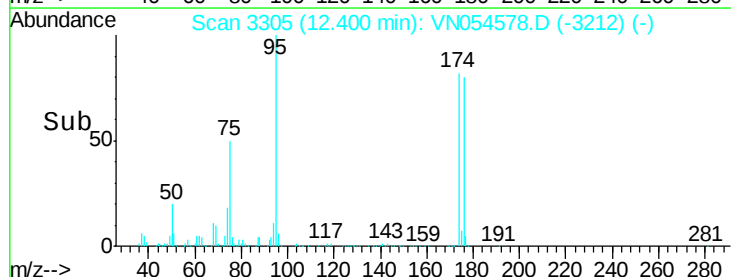
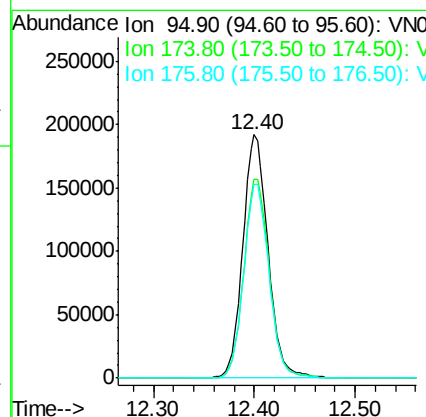
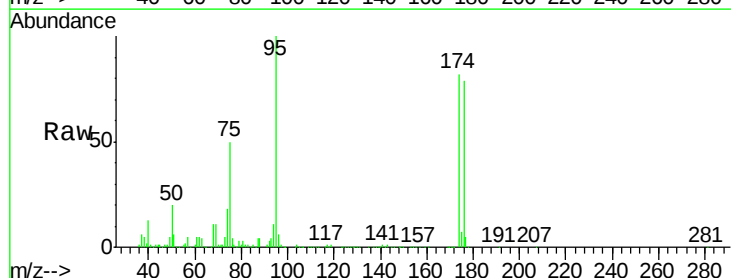
Instrument :
MSVOA_N
ClientSampleId :
WP022SB439-190318-(21-23)

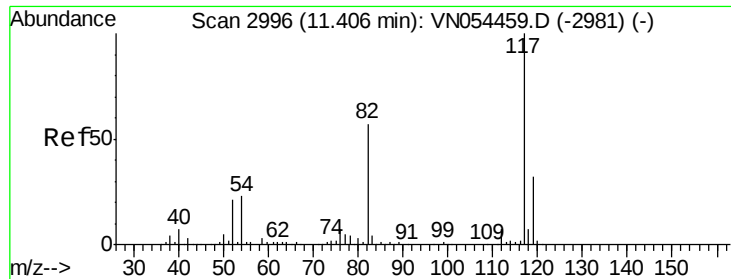
Tot Ion: 43 Resp: 853
Ion Ratio Lower Upper
43 100
58 75.7 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 47.272 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Tgt Ion: 95 Resp: 330093
Ion Ratio Lower Upper
95 100
174 82.9 0.0 191.0
176 80.2 0.0 187.4

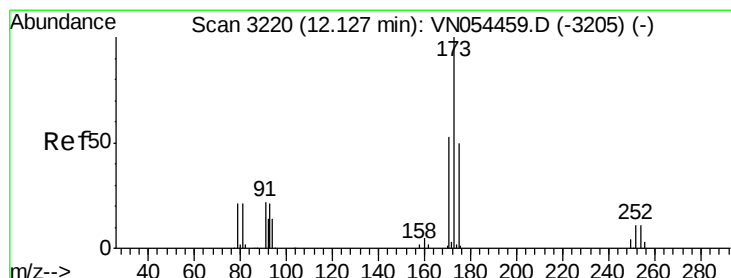
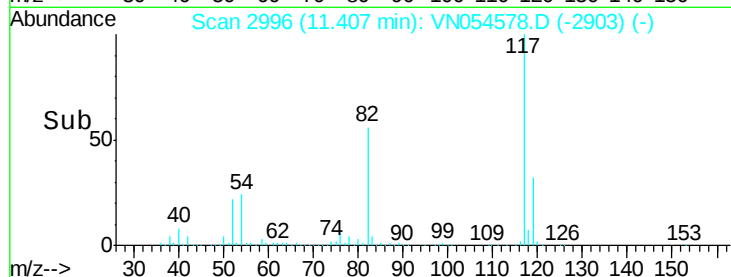
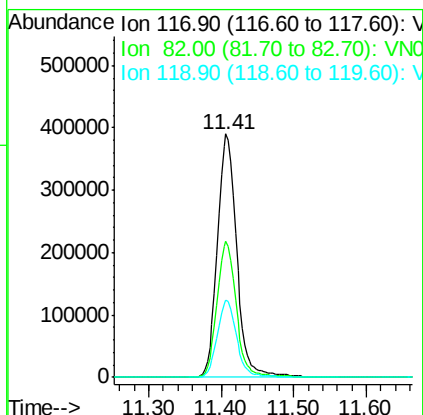
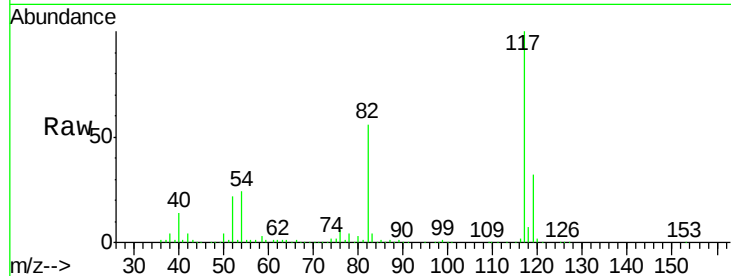




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

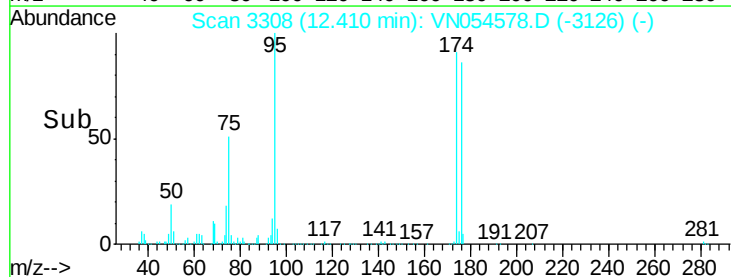
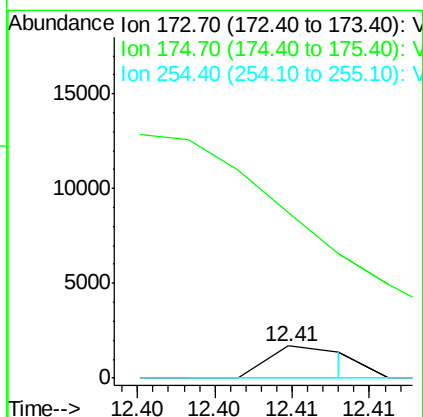
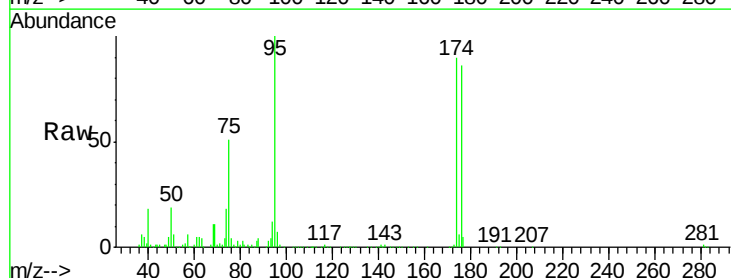
Instrument :
MSVOA_N
ClientSampleId :
WP022SB439-190318-(21-23)

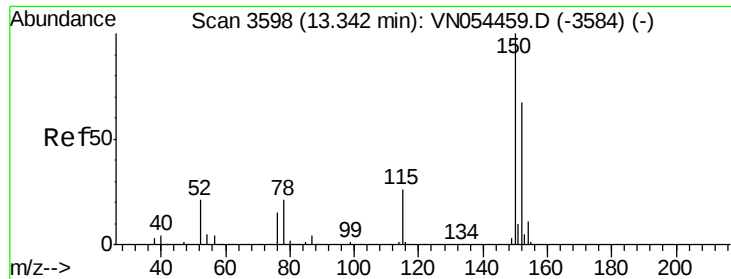
Tot Ion:117 Resp: 723972
Ion Ratio Lower Upper
117 100
82 55.8 40.0 60.0
119 32.0 25.8 38.6



#71
Bromoform
Concen: 2.376 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN054578.D
Acq: 23 Mar 2019 1:25

Tgt Ion:173 Resp: 592
Ion Ratio Lower Upper
173 100
175 3136.7 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(21-23)

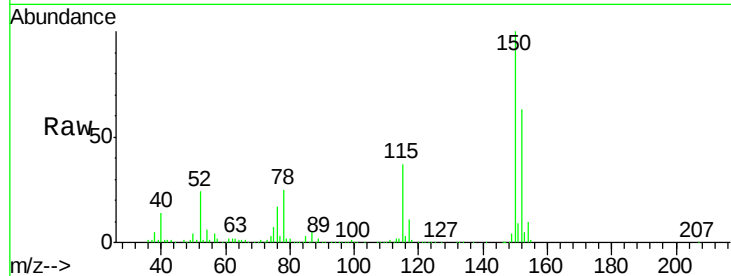
Tot Ion:152 Resp: 293489

Ion Ratio Lower Upper

152 100

115 59.0 27.2 81.6

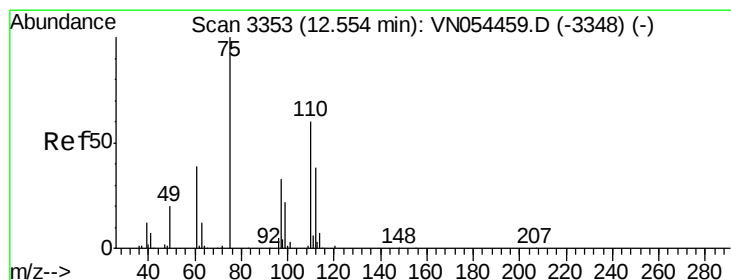
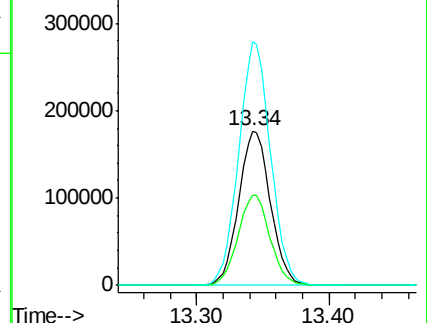
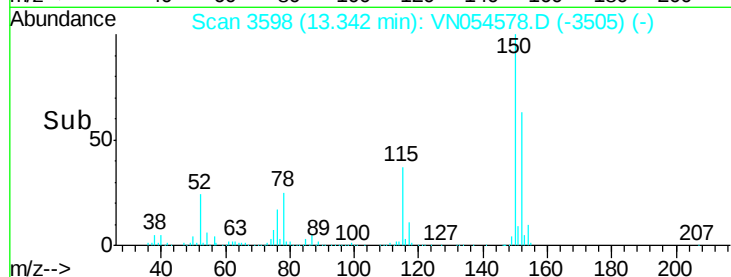
150 158.2 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 36.141 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054578.D

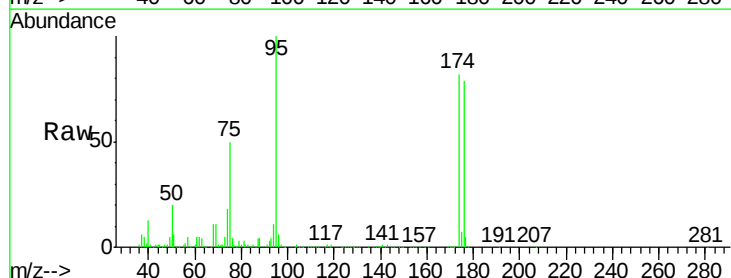
Acq: 23 Mar 2019 1:25

Tgt Ion: 75 Resp: 168316

Ion Ratio Lower Upper

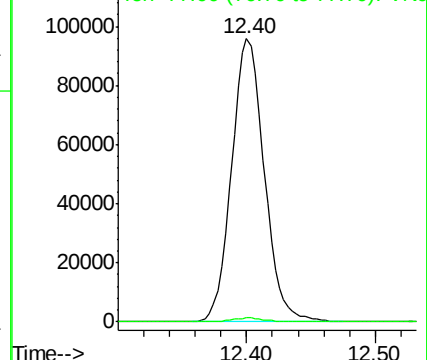
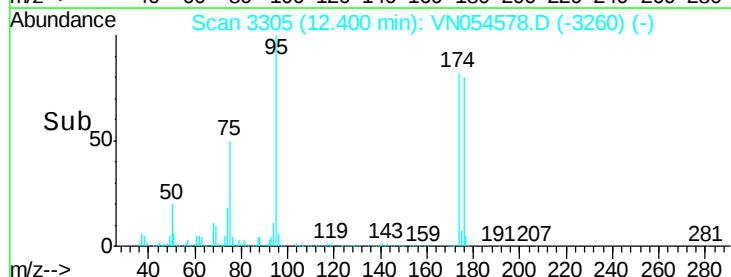
75 100

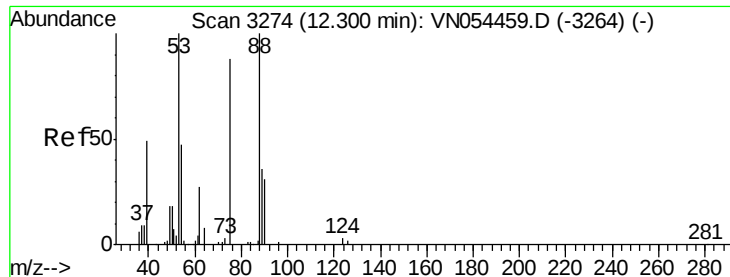
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.859 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054578.D

Acq: 23 Mar 2019 1:25

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(21-23)

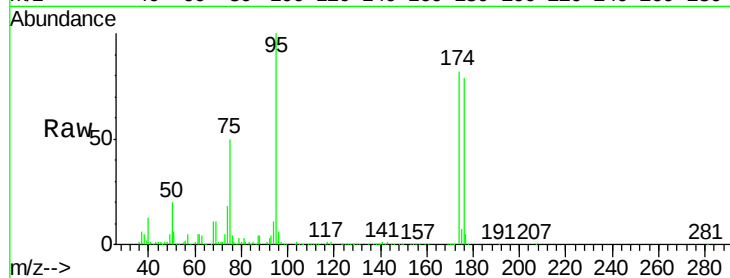
Tot Ion: 75 Resp: 168316

Ion Ratio Lower Upper

75 100

53 0.2 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

