

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054592.D
 Acq On : 23 Mar 2019 7:50
 Operator : JC/SP
 Sample : K2045-18
 Misc : 5.96g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB444-190320-(18-20)

Quant Time: Mar 25 01:52:39 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	569098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	893681	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	770903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	327244	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	361214	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
35) Dibromofluoromethane	7.59	113	263572	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
50) Toluene-d8	10.09	98	1082927	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
62) 4-Bromofluorobenzene	12.40	95	354852	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	

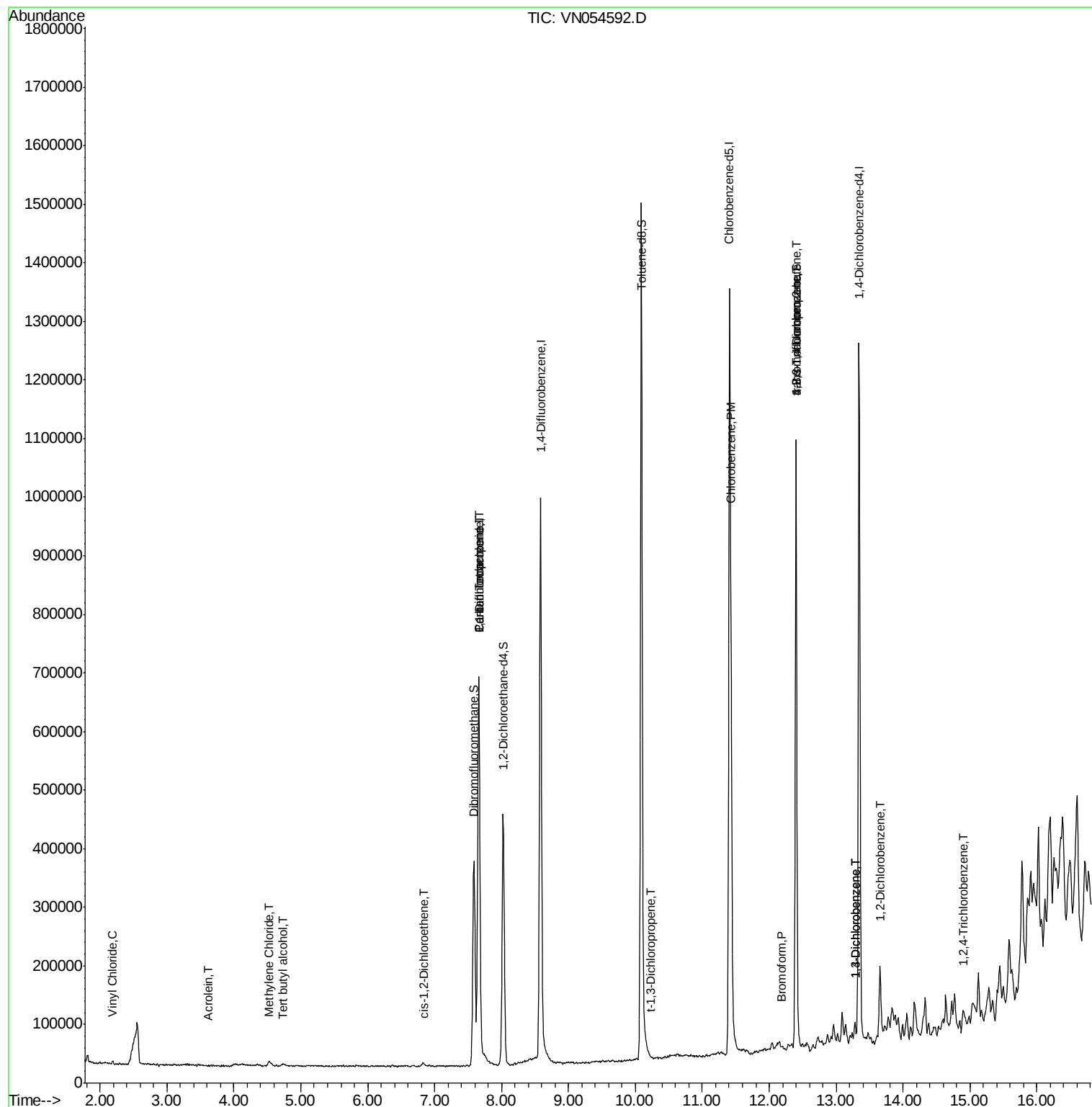
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	3531	0.475	ug/l #	80
11) Tert butyl alcohol	4.74	59	2759	6.438	ug/l #	70
13) Acrolein	3.61	56	162	0.274	ug/l #	1
20) Methylene Chloride	4.54	84	5443	0.868	ug/l #	81
27) cis-1,2-Dichloroethene	6.83	96	3538	0.529	ug/l	97
31) Cyclohexane	7.66	56	12841	Below Cal	#	16
36) 1,1-Dichloropropene	7.66	75	41327	4.946	ug/l #	48
38) Carbon Tetrachloride	7.66	117	52499	6.465	ug/l #	15
53) t-1,3-Dichloropropene	10.24	75	108	2.244	ug/l #	42
65) Chlorobenzene	11.43	112	268198	17.105	ug/l	99
71) Bromoform	12.20	173	111	2.248	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	181850	35.019	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181850	116.237	ug/l #	11
87) 1,3-Dichlorobenzene	13.28	146	9011	0.831	ug/l	88
88) 1,4-Dichlorobenzene	13.28	146	9011	0.855	ug/l	88
91) 1,2-Dichlorobenzene	13.65	146	30294	2.886	ug/l	93
93) 1,2,4-Trichlorobenzene	14.91	180	2009	0.384	ug/l #	91

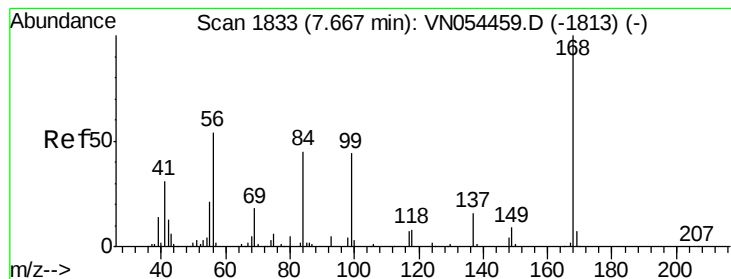
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

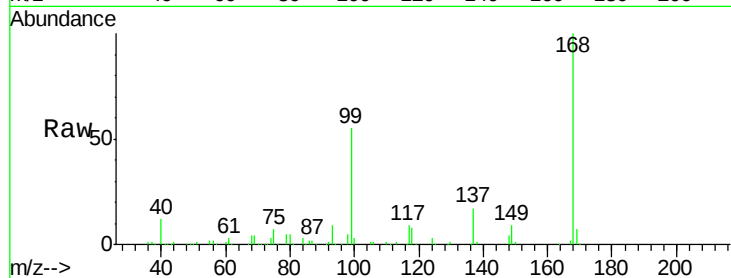
WP022SB444-190320-(18-20)

Tot Ion:168 Resp: 569098

Ion Ratio Lower Upper

168 100

99 55.0 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

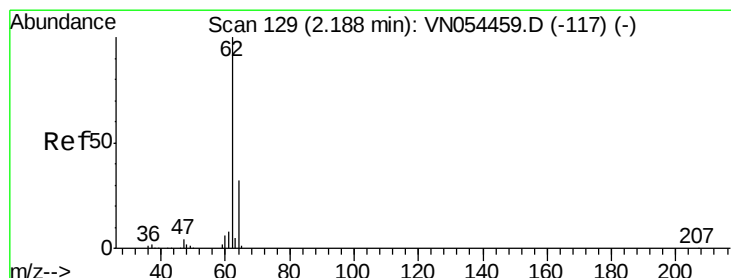
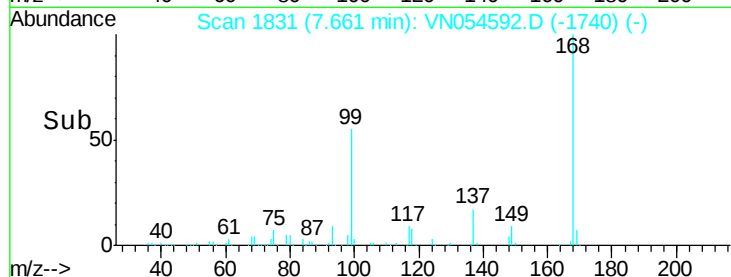
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.475 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054592.D

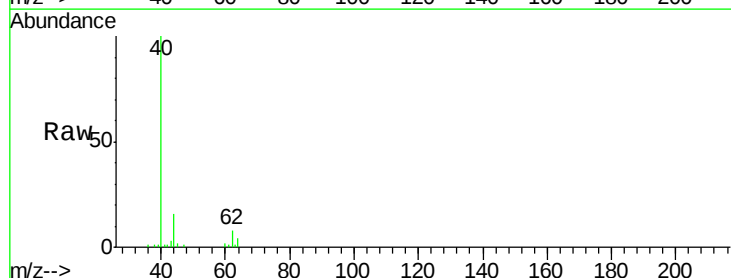
Acq: 23 Mar 2019 7:50

Tgt Ion: 62 Resp: 3531

Ion Ratio Lower Upper

62 100

64 43.1 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2500

2000

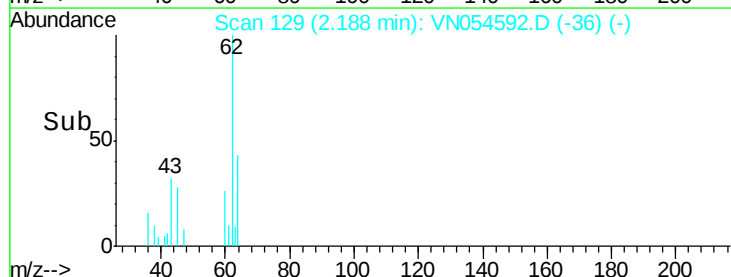
1500

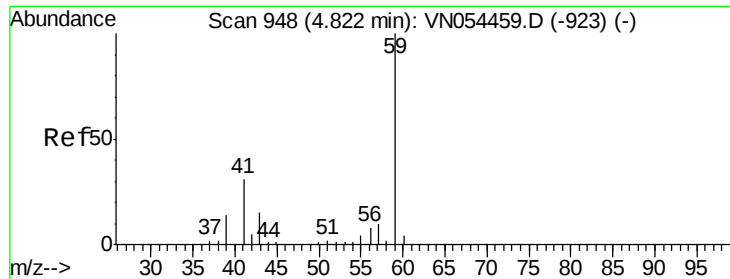
1000

500

0

Time-->

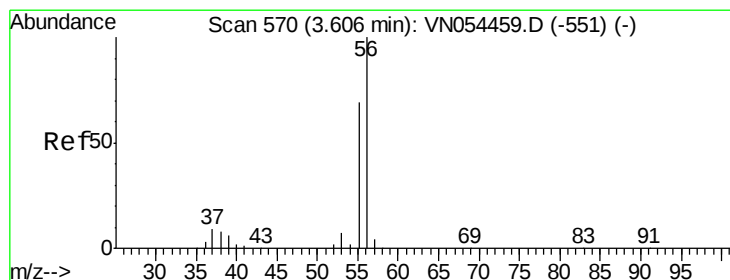
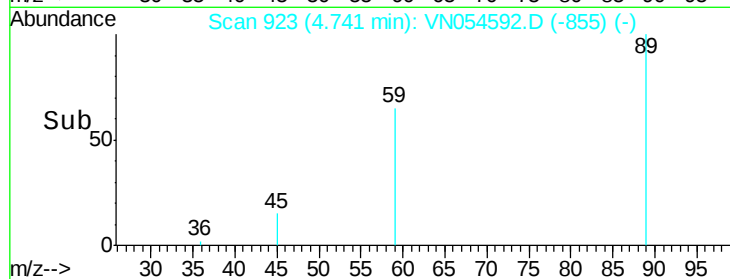
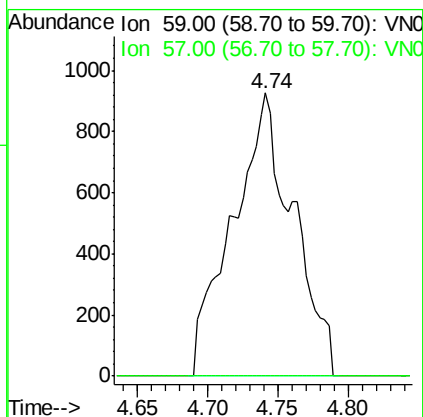
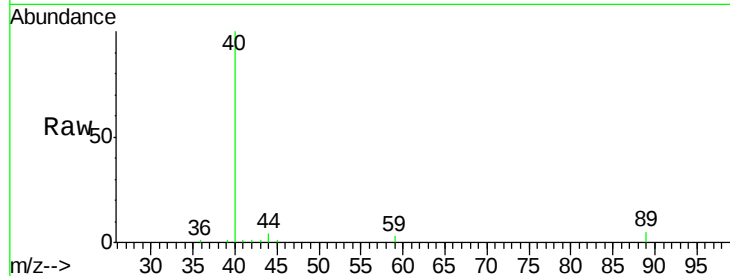




#11
Tert butyl alcohol
Concen: 6.438 ug/l
RT: 4.74 min Scan# 923
Delta R.T. -0.08 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

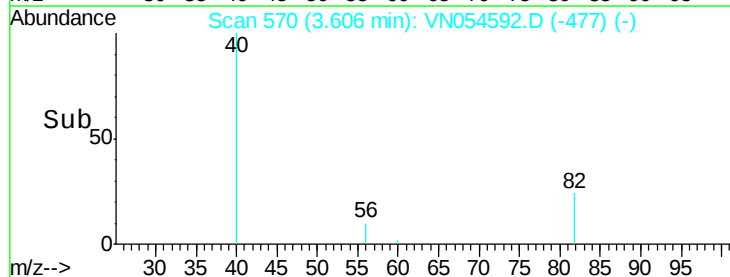
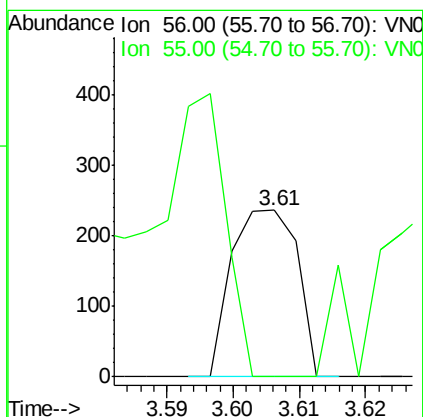
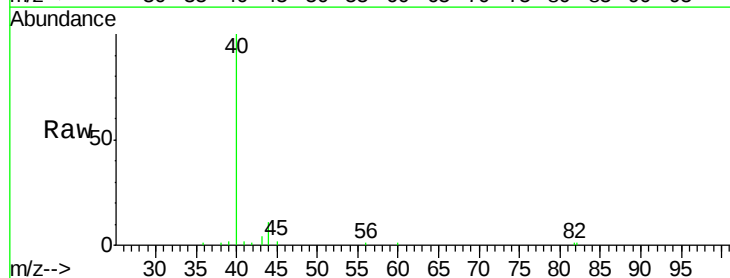
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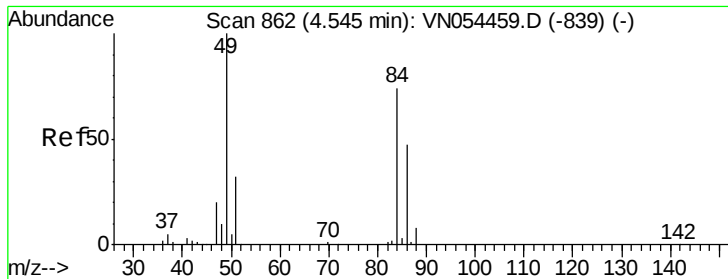
Tot Ion: 59 Resp: 2759
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#13
Acrolein
Concen: 0.274 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

Tgt Ion: 56 Resp: 162
Ion Ratio Lower Upper
56 100
55 275.3 56.7 85.1#

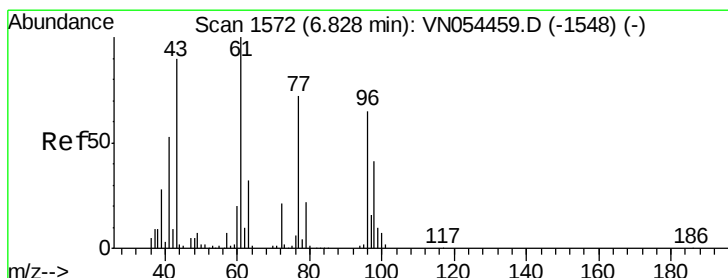
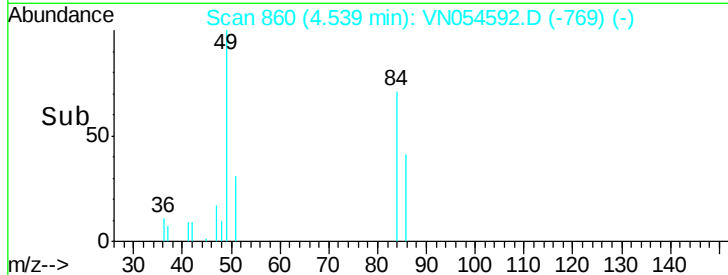
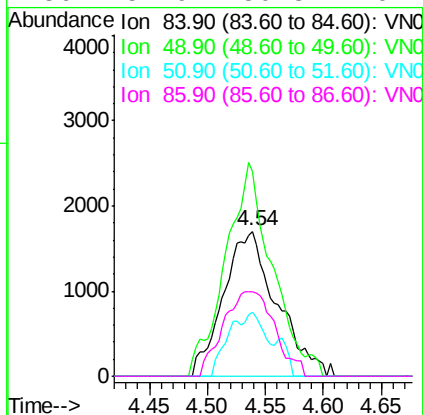
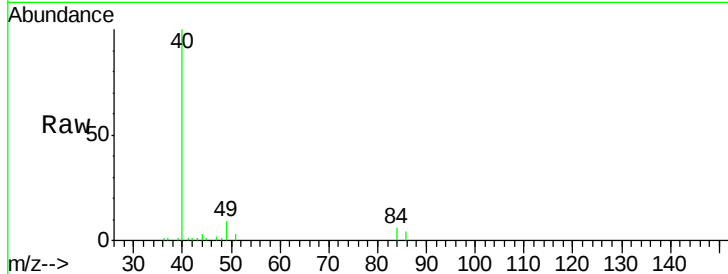




#20
Methvlene Chloride
Concen: 0.868 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.01 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

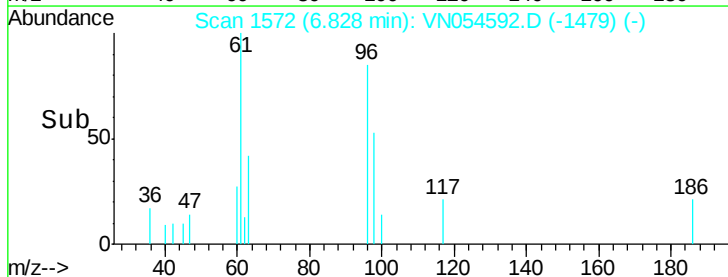
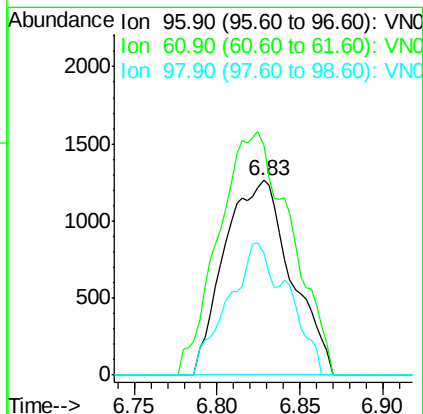
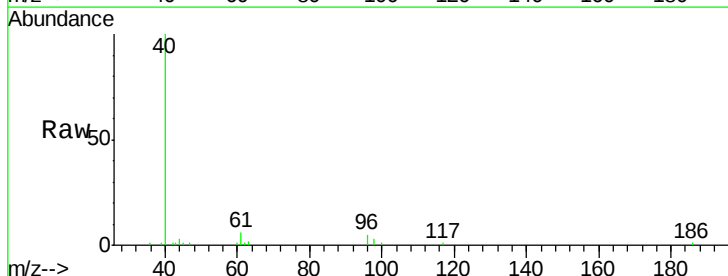
Instrument :
MSVOA_N
ClientSampleId :
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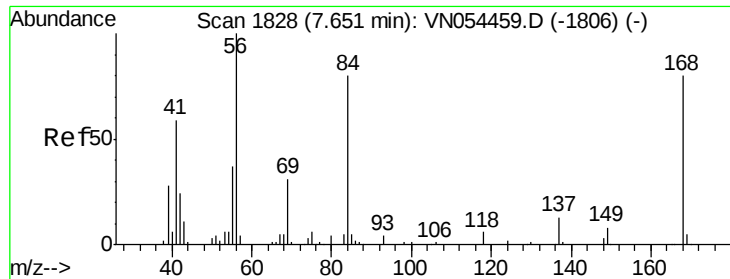
Tot Ion: 84 Resp: 5443
Ion Ratio Lower Upper
84 100
49 141.3 89.7 134.5#
51 43.9 28.2 42.4#
86 57.9 50.8 76.2



#27
cis-1,2-Dichloroethene
Concen: 0.529 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

Tgt Ion: 96 Resp: 3538
Ion Ratio Lower Upper
96 100
61 135.3 0.0 273.0
98 60.5 0.0 130.6

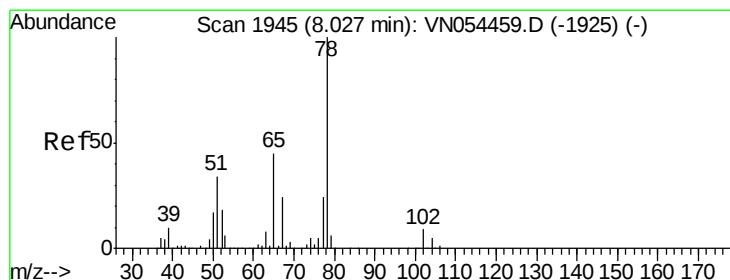
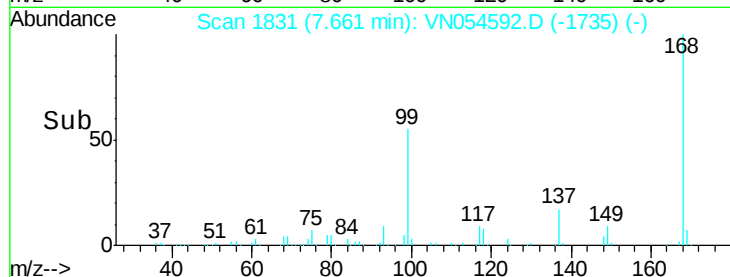
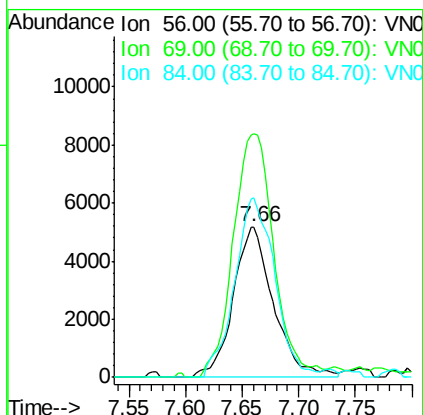
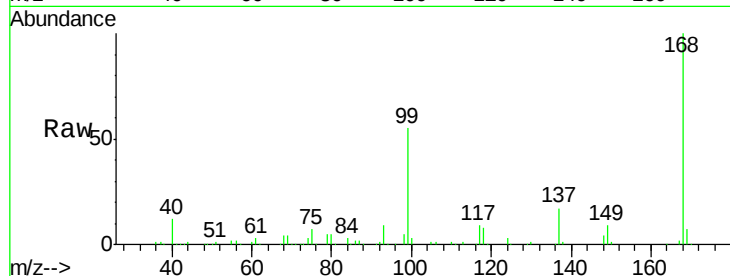




#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

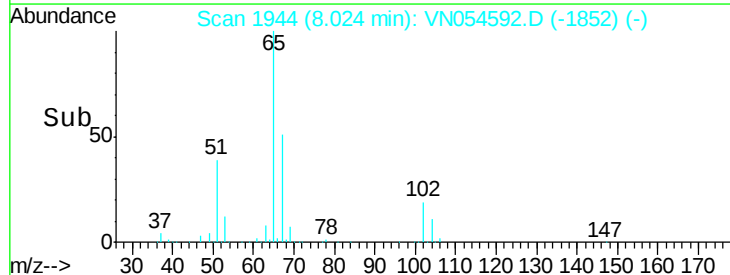
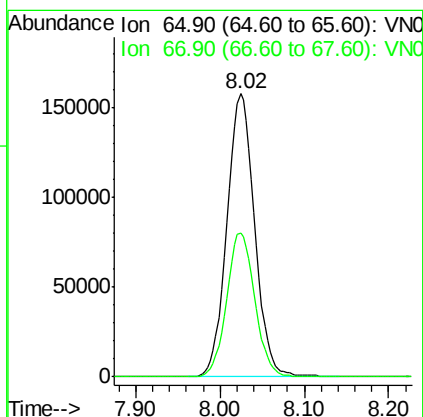
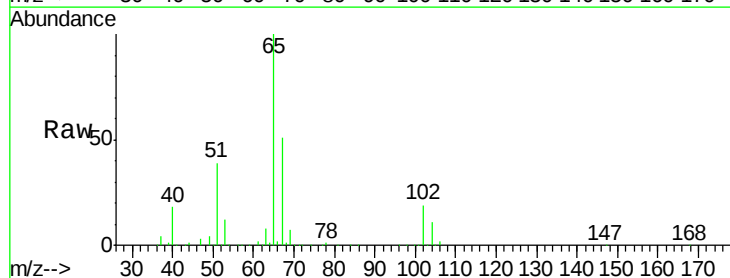
Instrument :
MSVOA_N
ClientSampleId :
WP022SB444-190320-(18-20)

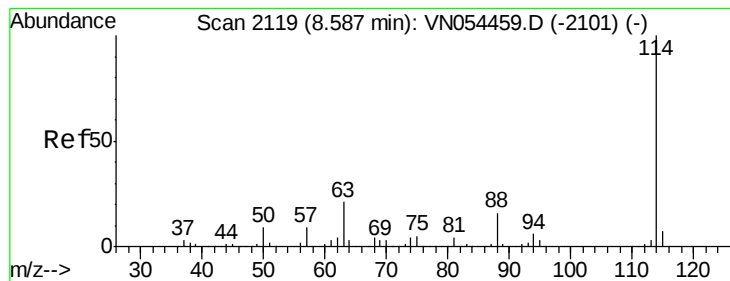
Tot Ion: 56 Resp: 12841
Ion Ratio Lower Upper
56 100
69 162.1 27.8 41.6#
84 124.5 74.6 111.8#



#33
1,2-Dichloroethane-d4
Concen: 51.029 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

Tgt Ion: 65 Resp: 361214
Ion Ratio Lower Upper
65 100
67 51.7 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: VN054592.D

Acq: 23 Mar 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

WP022SB444-190320-(18-20)

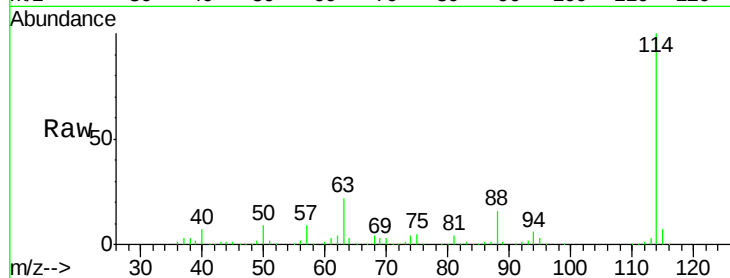
Tot Ion:114 Resp: 893681

Ion Ratio Lower Upper

114 100

63 22.2 0.0 35.2

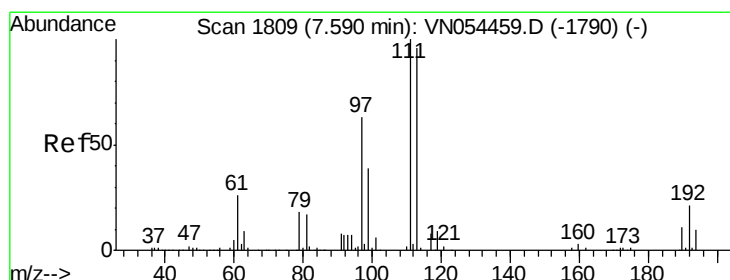
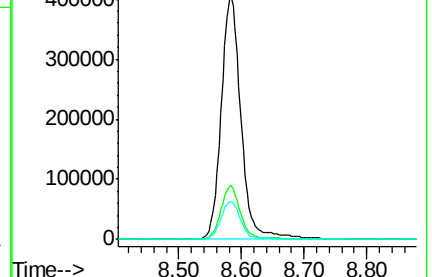
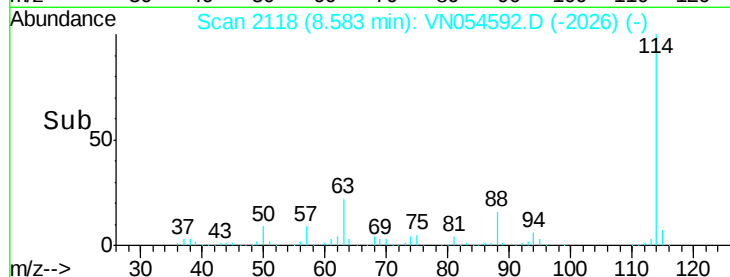
88 15.7 0.0 30.2



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: 45.779 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

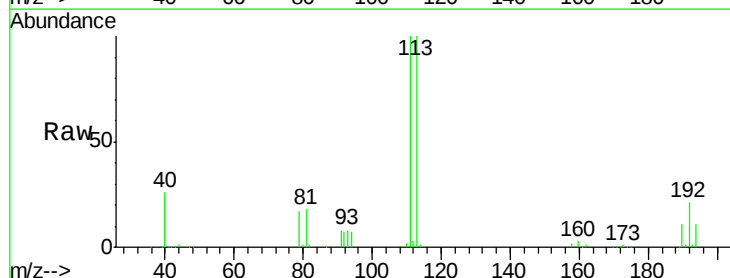
Tgt Ion:113 Resp: 263572

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

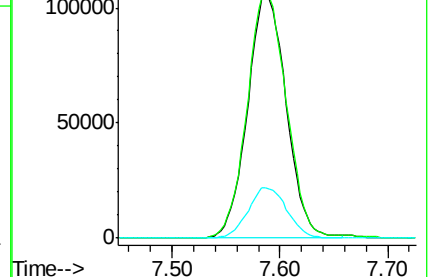
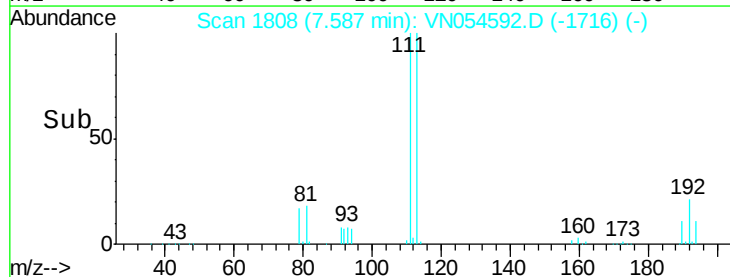
192 20.9 19.2 28.8

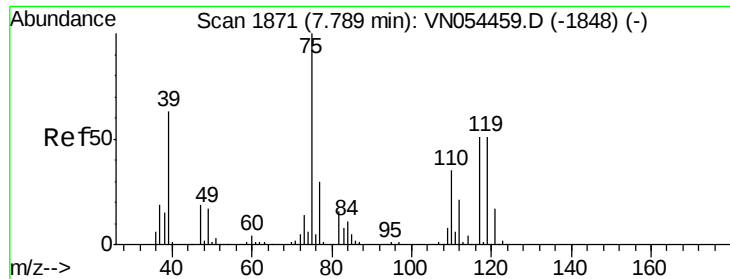


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.946 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

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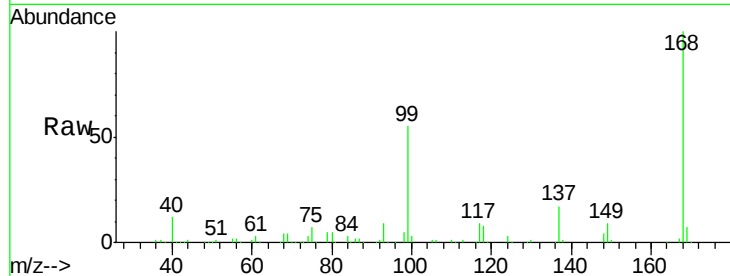
Tot Ion: 75 Resp: 41327

Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.5#

77 0.0 25.0 37.4#

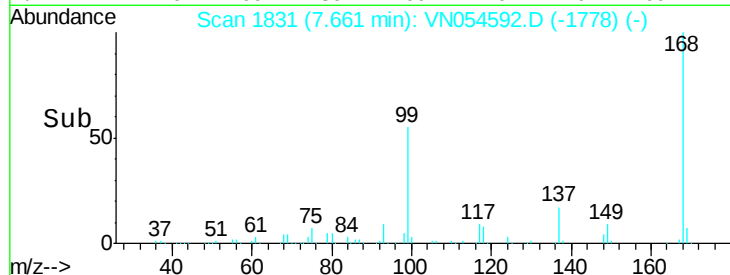


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

Time-->

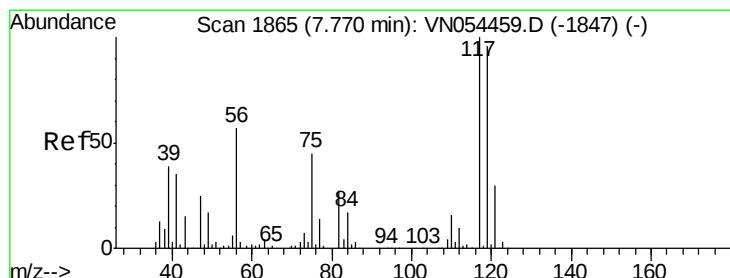


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.465 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

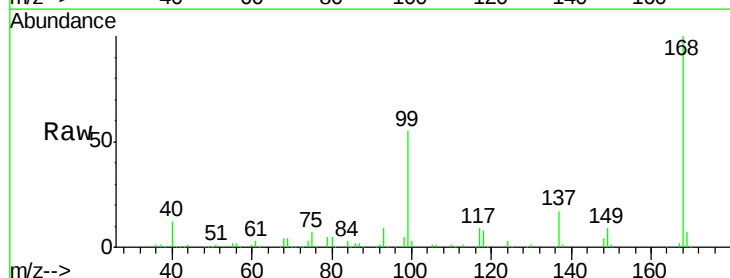
Tgt Ion: 117 Resp: 52499

Ion Ratio Lower Upper

117 100

119 3.9 76.3 114.5#

121 0.0 24.6 36.8#

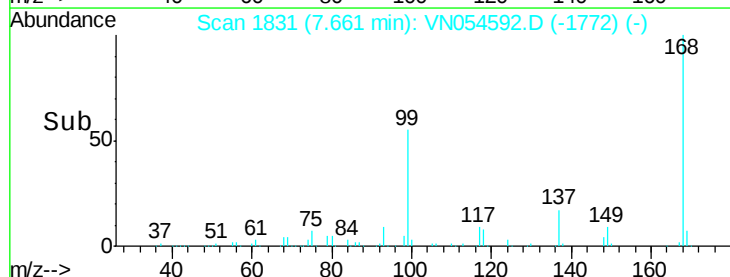


Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054459.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054459.D (-1847) (-)

Time-->

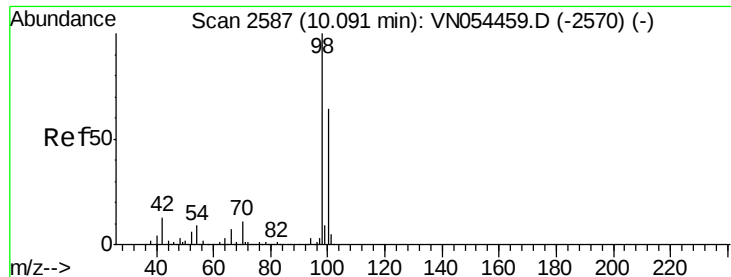


Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054459.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054459.D (-1847) (-)

Time-->



#50

Toluene-d8

Concen: 50.032 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

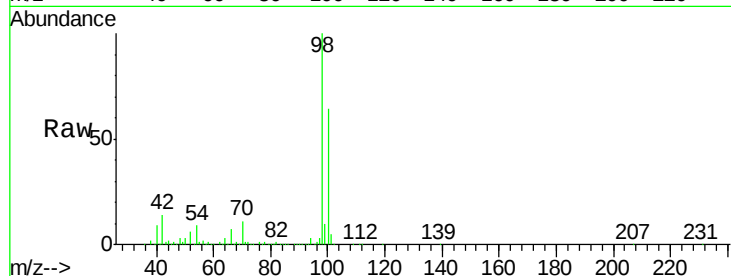
WP022SB444-190320-(18-20)

Tot Ion: 98 Resp: 1082927

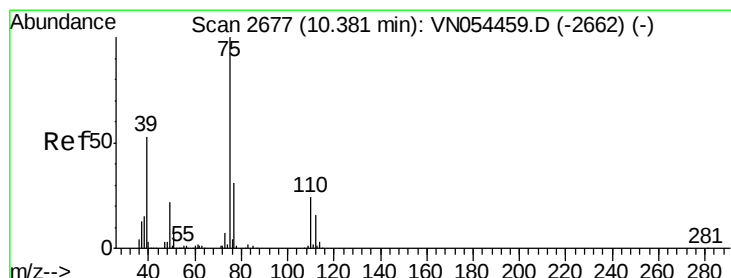
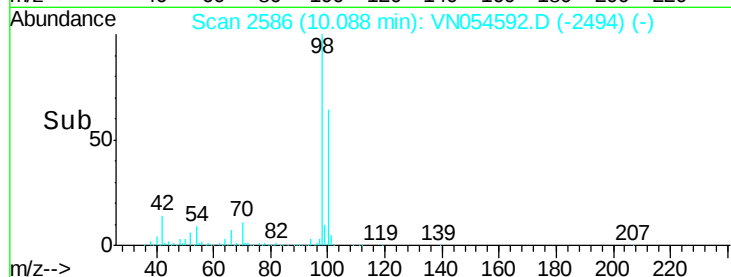
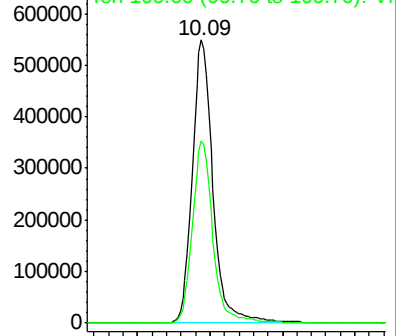
Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)



#53

t-1,3-Dichloropropene

Concen: 2.244 ug/l

RT: 10.24 min Scan# 2633

Delta R.T. -0.14 min

Lab File: VN054592.D

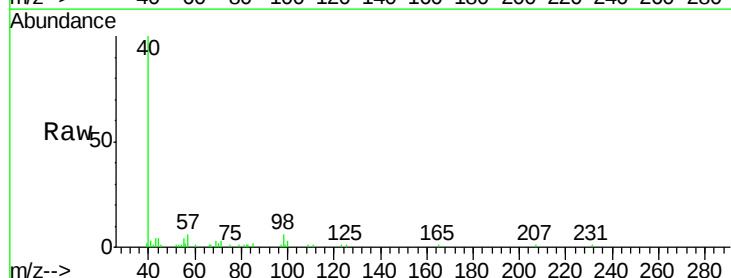
Acq: 23 Mar 2019 7:50

Tgt Ion: 75 Resp: 108

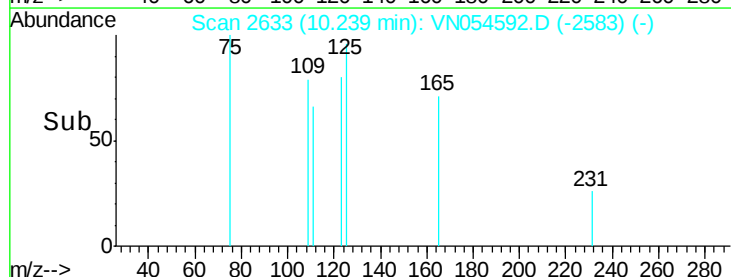
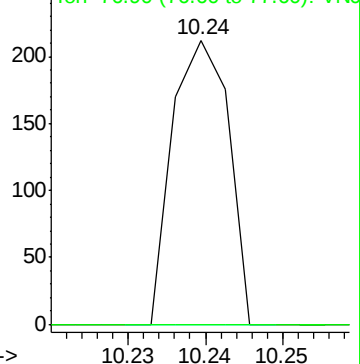
Ion Ratio Lower Upper

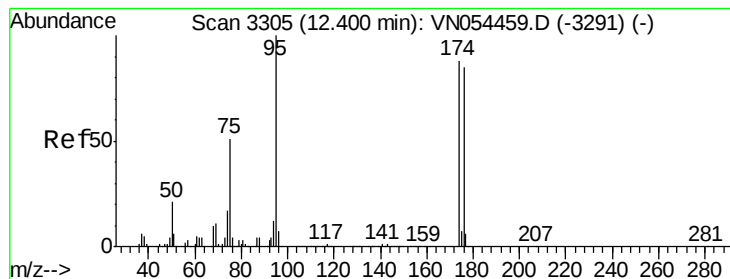
75 100

77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-2662) (-)





#62

4-Bromofluorobenzene

Concen: 48.179 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

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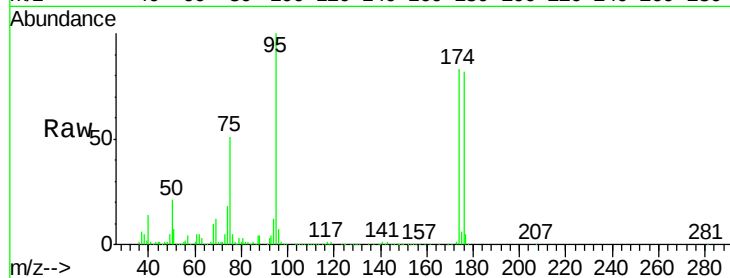
Tot Ion: 95 Resp: 354852

Ion Ratio Lower Upper

95 100

174 83.9 0.0 191.0

176 80.4 0.0 187.4

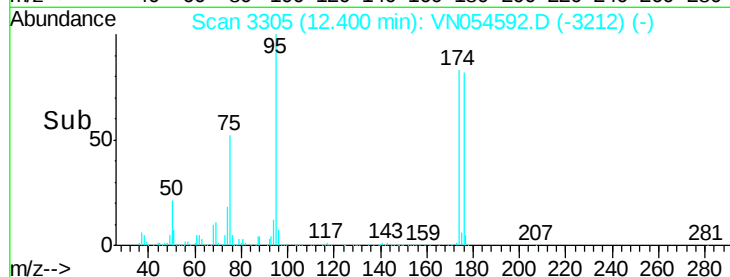


Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)

Time--> 12.30 12.40 12.50

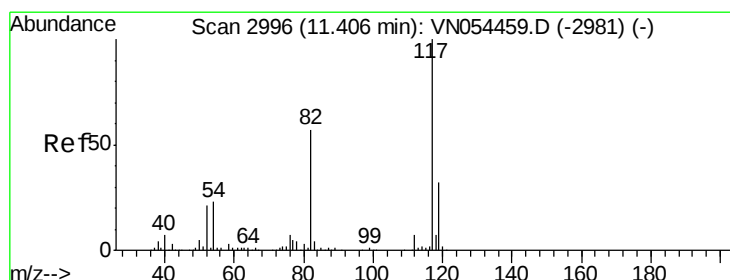


Abundance Ion 94.90 (94.60 to 95.60): VN054592.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054592.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054592.D (-3212) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

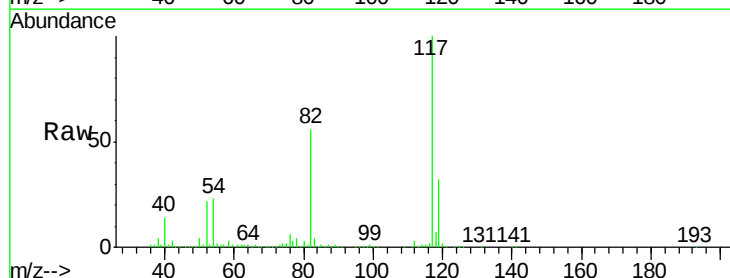
Tgt Ion: 117 Resp: 770903

Ion Ratio Lower Upper

117 100

82 56.0 40.0 60.0

119 31.9 25.8 38.6

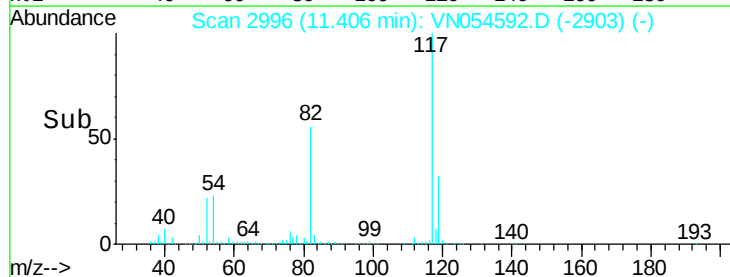


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)

Time--> 11.30 11.40 11.50

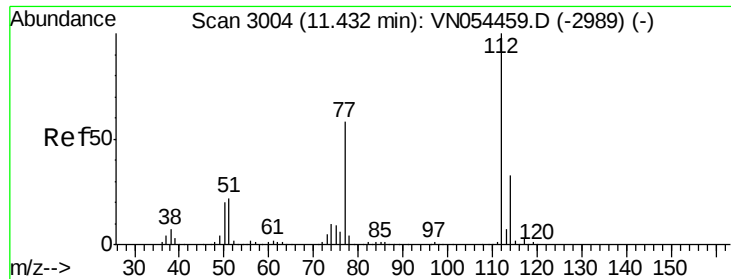


Abundance Ion 116.90 (116.60 to 117.60): VN054592.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054592.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054592.D (-2903) (-)

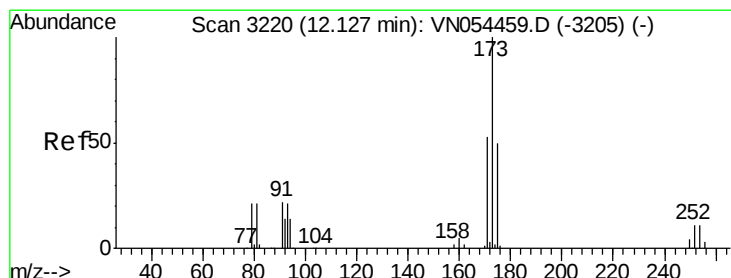
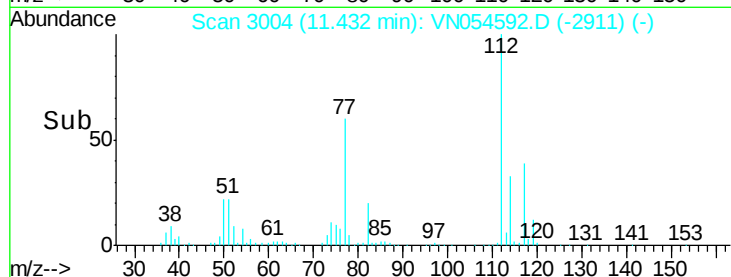
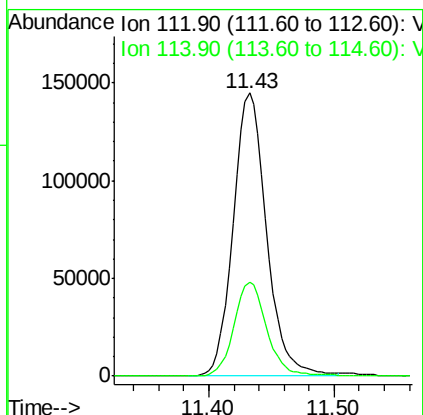
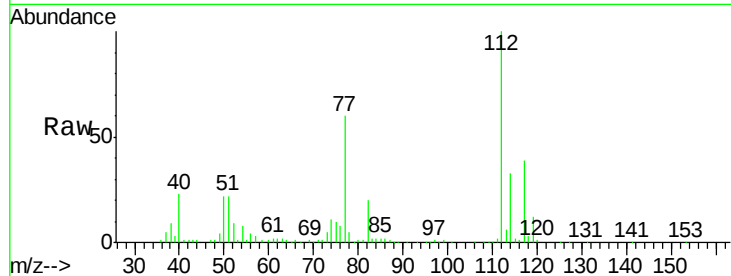
Time--> 11.30 11.40 11.50



#65
Chlorobenzene
Concen: 17.105 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

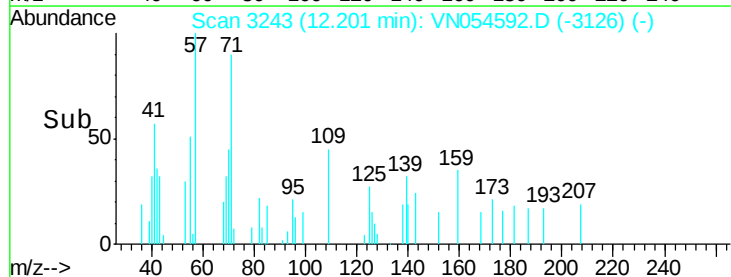
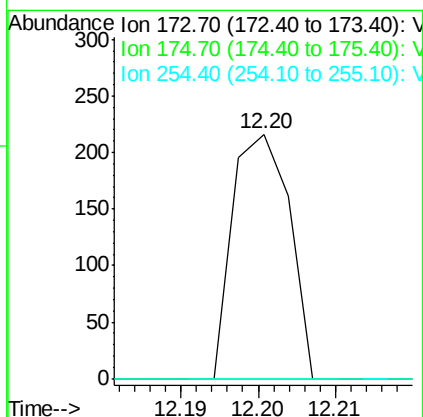
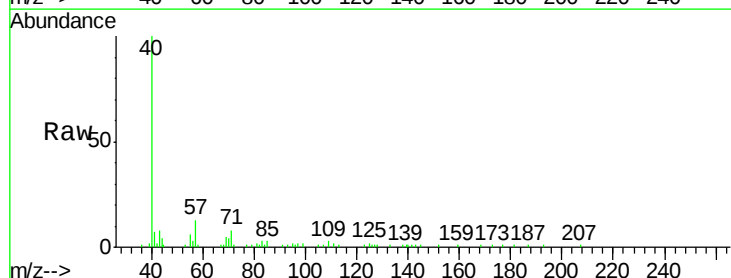
Instrument :
MSVOA_N
ClientSampleId :
WP022SB444-190320-(18-20)

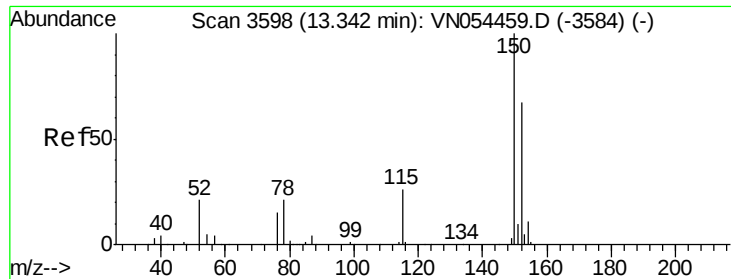
Tot Ion:112 Resp: 268198
Ion Ratio Lower Upper
112 100
114 33.2 25.9 38.9



#71
Bromoform
Concen: 2.248 ug/l
RT: 12.20 min Scan# 3243
Delta R.T. 0.07 min
Lab File: VN054592.D
Acq: 23 Mar 2019 7:50

Tgt Ion:173 Resp: 111
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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

WP022SB444-190320-(18-20)

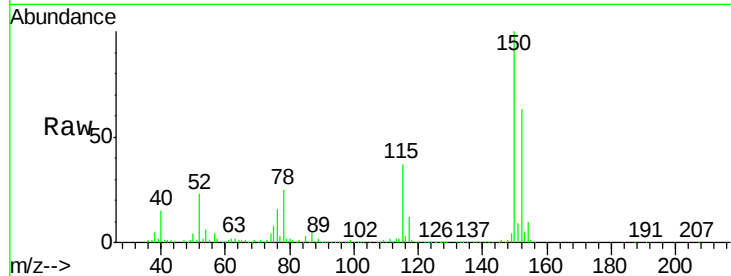
Tot Ion:152 Resp: 327244

Ion Ratio Lower Upper

152 100

115 58.5 27.2 81.6

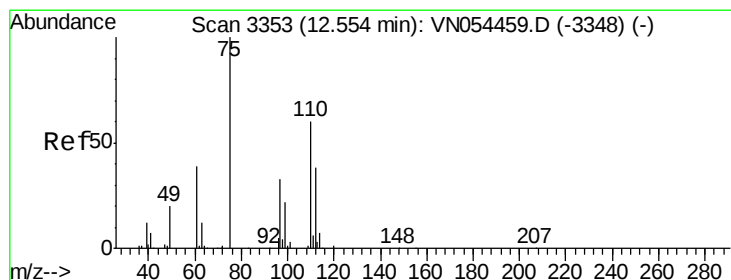
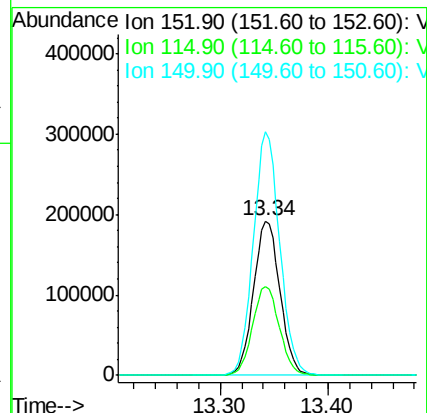
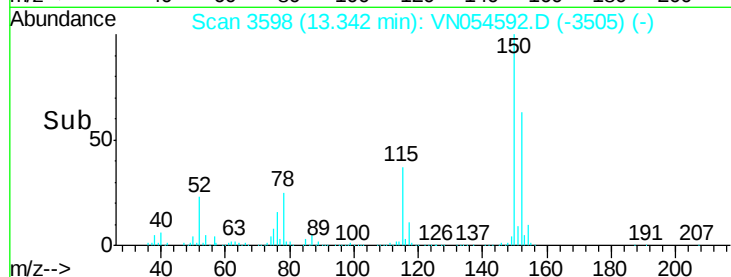
150 156.8 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 35.019 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054592.D

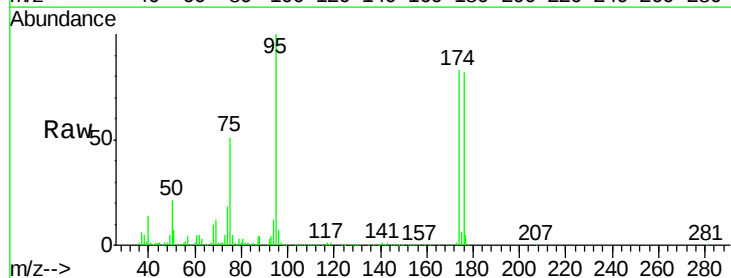
Acq: 23 Mar 2019 7:50

Tgt Ion: 75 Resp: 181850

Ion Ratio Lower Upper

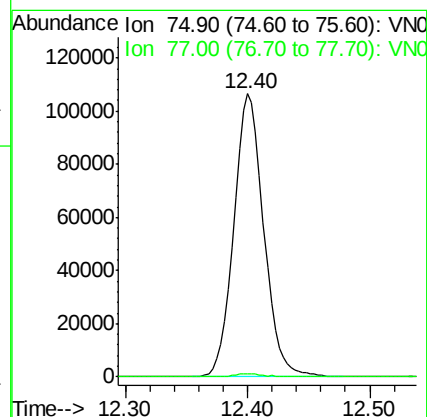
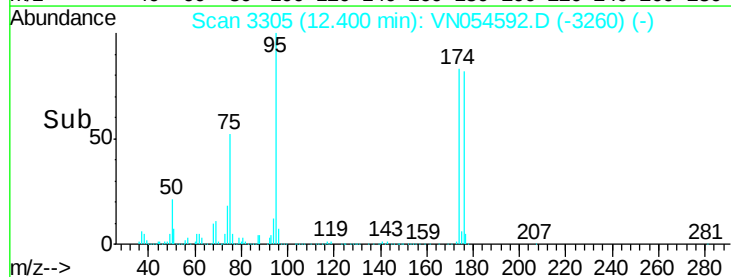
75 100

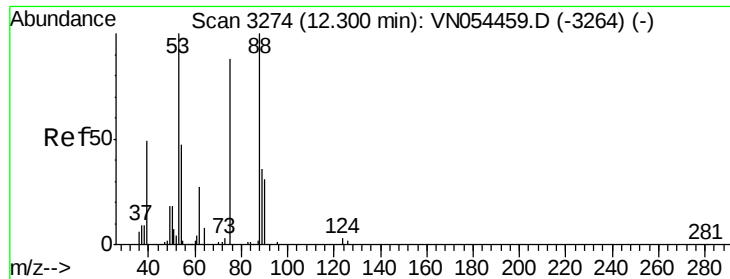
77 0.9 0.0 0.0#



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: 116.237 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

WP022SB444-190320-(18-20)

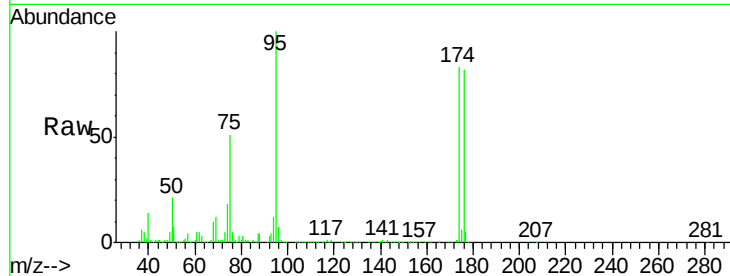
Tot Ion: 75 Resp: 181850

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

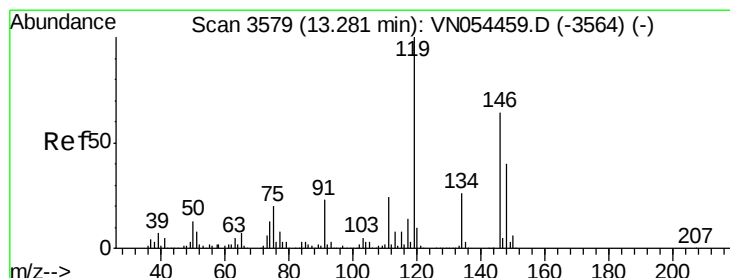
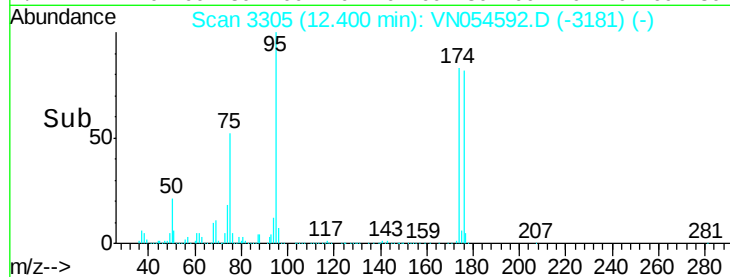
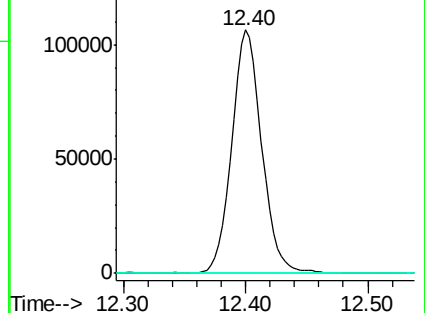
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)



#87

1,3-Dichlorobenzene

Concen: 0.831 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

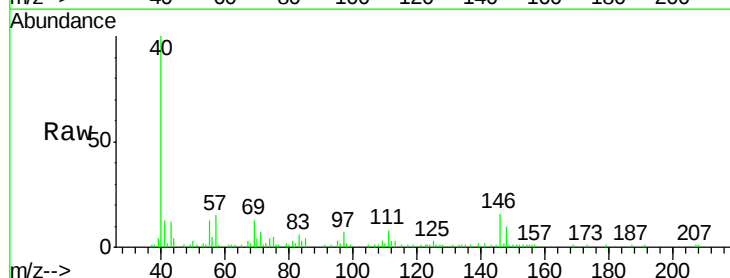
Tgt Ion: 146 Resp: 9011

Ion Ratio Lower Upper

146 100

111 53.7 18.8 56.3

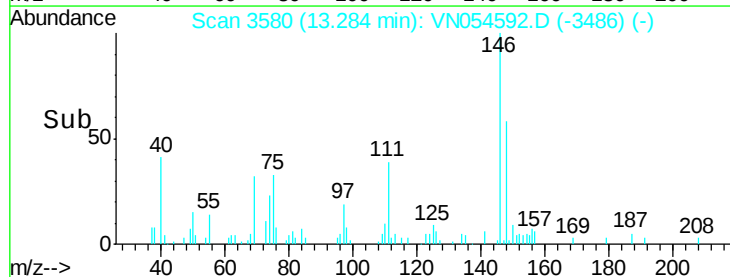
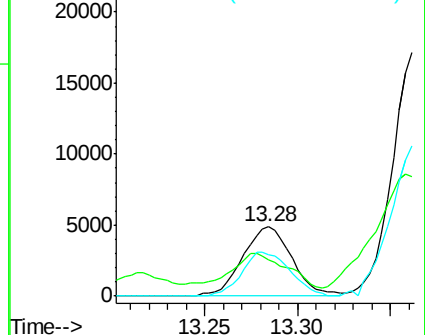
148 62.0 32.2 96.6

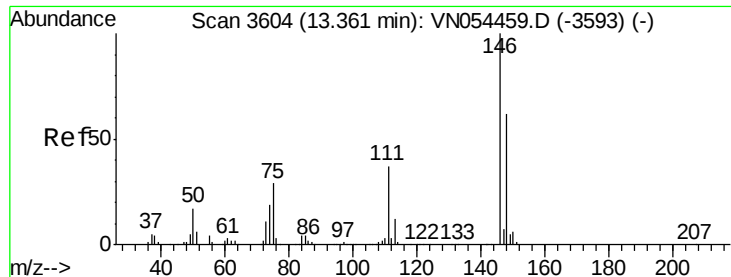


Abundance Ion 145.90 (145.60 to 146.60): VN054459.D (-3564) (-)

Ion 110.90 (110.60 to 111.60): VN054459.D (-3564) (-)

Ion 147.90 (147.60 to 148.60): VN054459.D (-3564) (-)

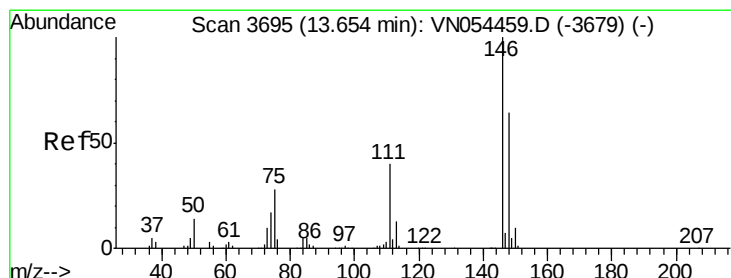
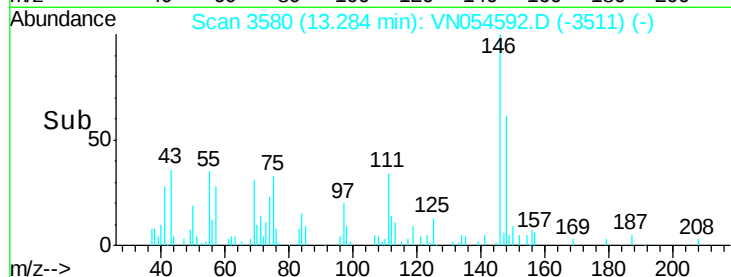
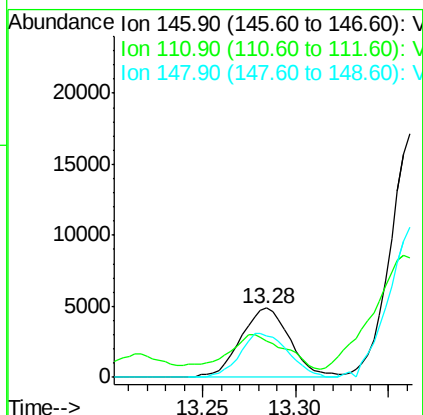
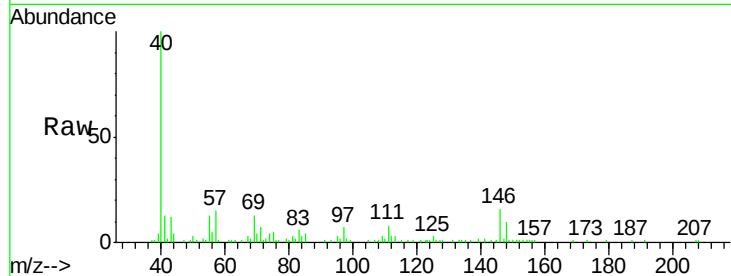




#88
 1,4-Dichlorobenzene
 Concen: 0.855 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN054592.D
 Acq: 23 Mar 2019 7:50

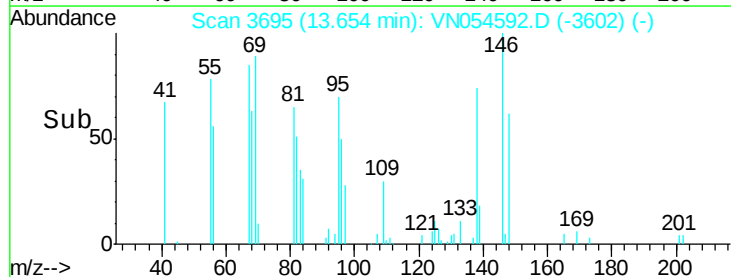
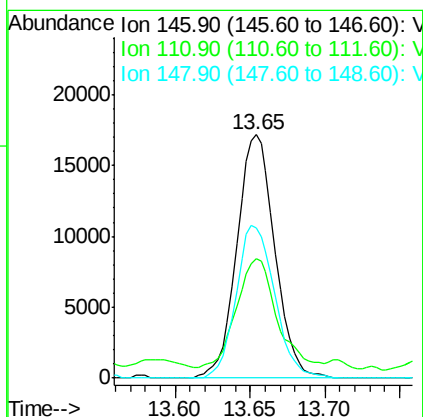
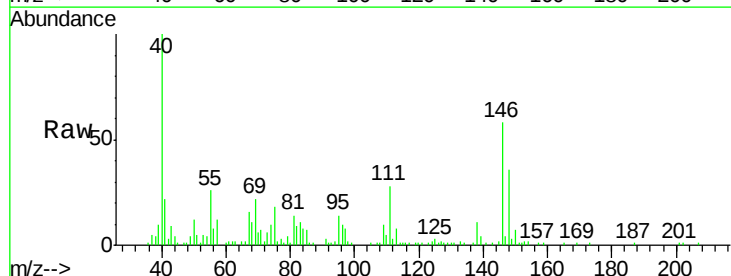
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB444-190320-(18-20)

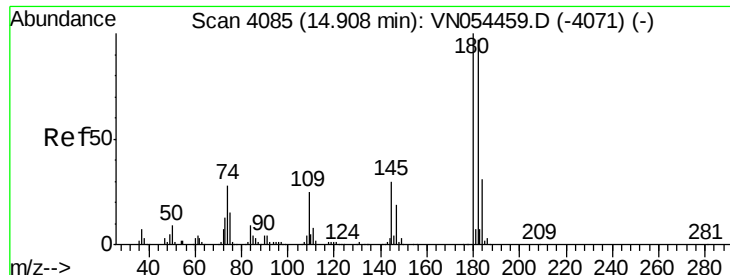
Tot Ion:146 Resp: 9011
 Ion Ratio Lower Upper
 146 100
 111 53.7 18.1 54.1
 148 62.0 32.0 96.0



#91
 1,2-Dichlorobenzene
 Concen: 2.886 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054592.D
 Acq: 23 Mar 2019 7:50

Tgt Ion:146 Resp: 30294
 Ion Ratio Lower Upper
 146 100
 111 47.9 19.1 57.3
 148 64.0 32.4 97.0





#93

1,2,4-Trichlorobenzene

Concen: 0.384 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054592.D

Acq: 23 Mar 2019 7:50

Instrument :

MSVOA_N

ClientSampleId :

WP022SB444-190320-(18-20)

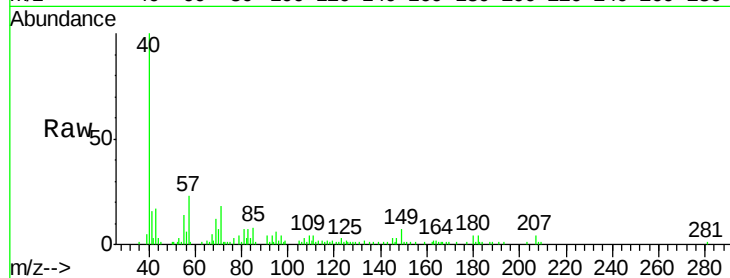
Tot Ion:180 Resp: 2009

Ion Ratio Lower Upper

180 100

182 95.3 48.0 144.2

145 48.3 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

