

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051820\
 Data File : VX016310.D
 Acq On : 18 May 2020 19:57
 Operator : JC/SP
 Sample : L2672-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW173-200514

Quant Time: May 19 12:47:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	264119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	439685	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	435510	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231160	50.00	ug/l	0.00

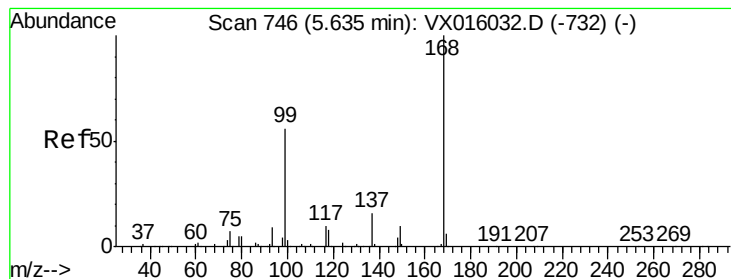
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	152951	44.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.02%	
35) Dibromofluoromethane	5.47	113	127177	45.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.32%	
50) Toluene-d8	8.70	98	536269	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
62) 4-Bromofluorobenzene	11.12	95	219132	53.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.36%	

Target Compounds

						Qvalue
4) Vinyl Chloride	1.39	62	15518	4.480	ug/l	93
16) Acetone	2.42	43	2751	1.774	ug/l	95
21) trans-1,2-Dichloroethene	3.14	96	1038	0.339	ug/l #	50
27) cis-1,2-Dichloroethene	4.57	96	24666	7.374	ug/l	86
29) Tetrahydrofuran	5.11	42	1842	1.112	ug/l	95
31) Cyclohexane	5.56	56	1154	0.239	ug/l	90
39) Methylcyclohexane	7.45	83	13999	2.686	ug/l	89
40) Benzene	6.12	78	1156167	91.297	ug/l	100
52) Toluene	8.77	92	11473	1.453	ug/l	95
65) Chlorobenzene	10.13	112	7765269	851.541	ug/l	94
67) Ethyl Benzene	10.24	91	27537	1.692	ug/l	96
68) m/p-Xylenes	10.34	106	6349	1.041	ug/l	100
69) o-Xylene	10.68	106	4459	0.761	ug/l	99
73) Isopropylbenzene	11.00	105	28136	1.673	ug/l	99
78) n-propylbenzene	11.34	91	25954	1.327	ug/l	100
79) 2-Chlorotoluene	11.41	91	4245	0.368	ug/l	82
80) 1,3,5-Trimethylbenzene	11.49	105	3582	0.252	ug/l	99
83) tert-Butylbenzene	11.76	119	28828	2.356	ug/l	96
84) 1,2,4-Trimethylbenzene	11.79	105	7424	0.517	ug/l	97
85) sec-Butylbenzene	11.93	105	28320	1.714	ug/l #	56
87) 1,3-Dichlorobenzene	12.01	146	249330	31.997	ug/l	100
88) 1,4-Dichlorobenzene	12.09	146	556232	70.330	ug/l	99
91) 1,2-Dichlorobenzene	12.38	146	2265531	301.944	ug/l	99
93) 1,2,4-Trichlorobenzene	13.63	180	1919	0.345	ug/l #	82
95) Naphthalene	13.82	128	24738	1.375	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

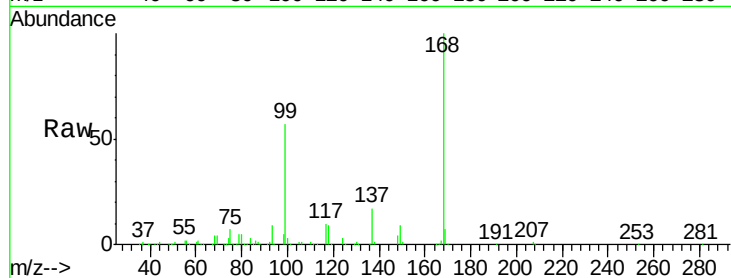
WP021MW173-200514

Tot Ion:168 Resp: 264119

Ion Ratio Lower Upper

168 100

99 57.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

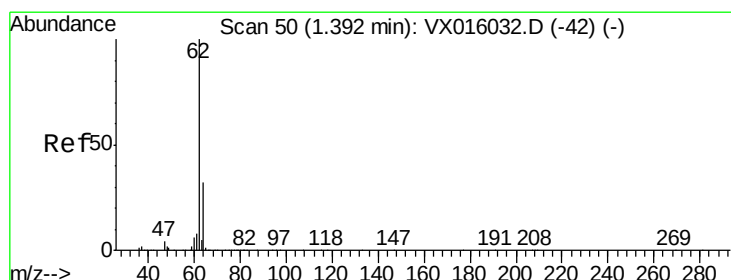
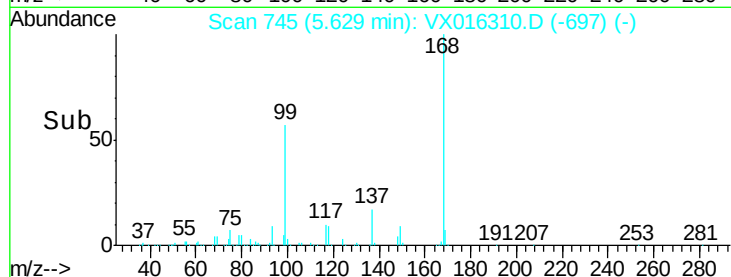
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 4.480 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016310.D

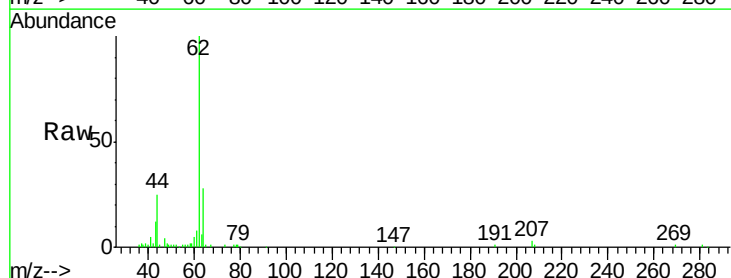
Acq: 18 May 2020 19:57

Tgt Ion: 62 Resp: 15518

Ion Ratio Lower Upper

62 100

64 28.4 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

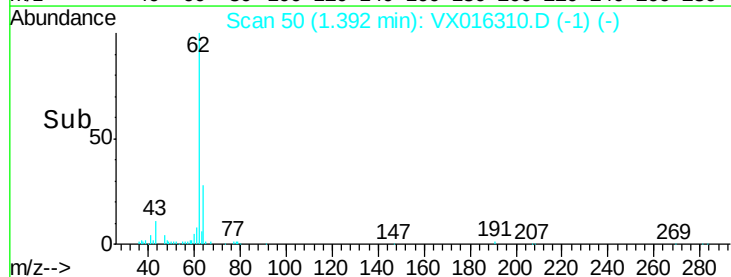
15000

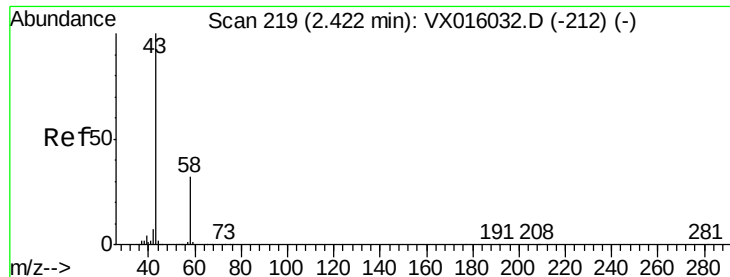
10000

5000

0

Time-->





#16

Acetone

Concen: 1.774 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

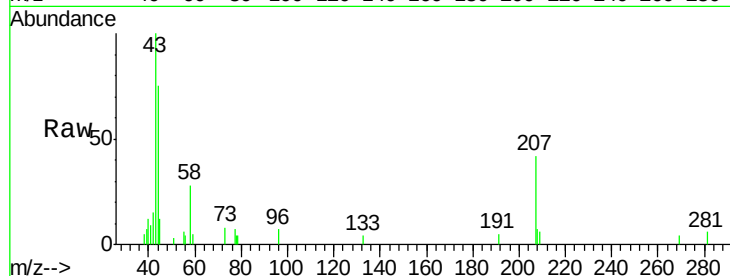
WP021MW173-200514

Tot Ion: 43 Resp: 2751

Ion Ratio Lower Upper

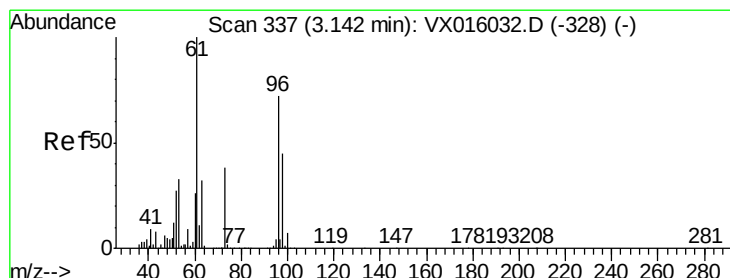
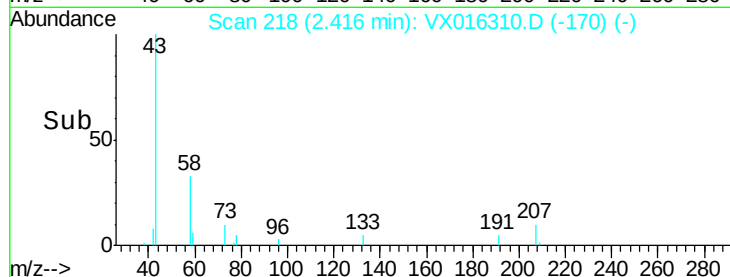
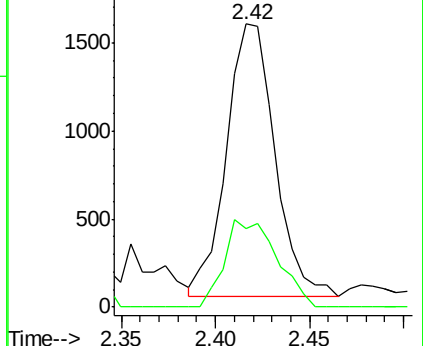
43 100

58 28.8 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.339 ug/l

RT: 3.14 min Scan# 336

Delta R.T. -0.01 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

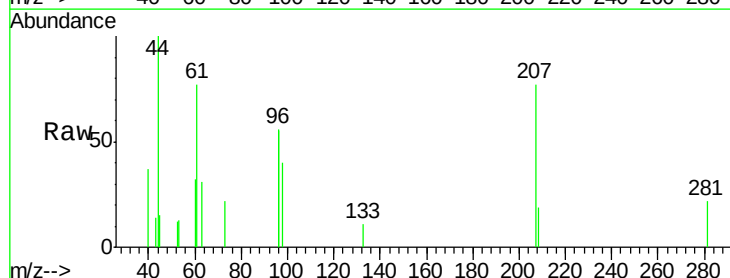
Tgt Ion: 96 Resp: 1038

Ion Ratio Lower Upper

96 100

61 69.3 111.2 166.8#

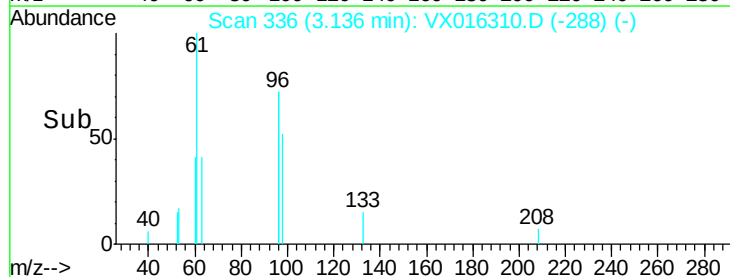
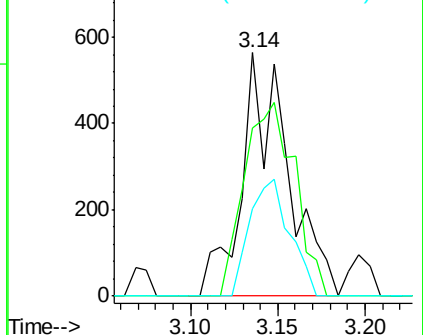
98 36.0 50.2 75.4#

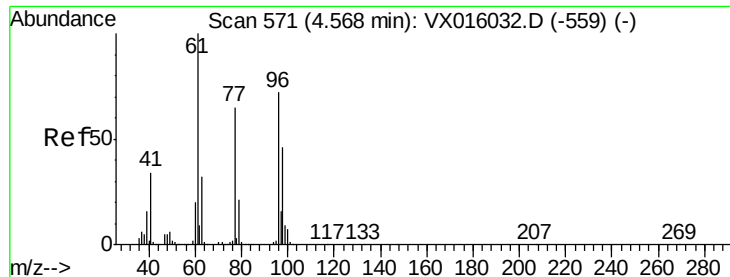


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



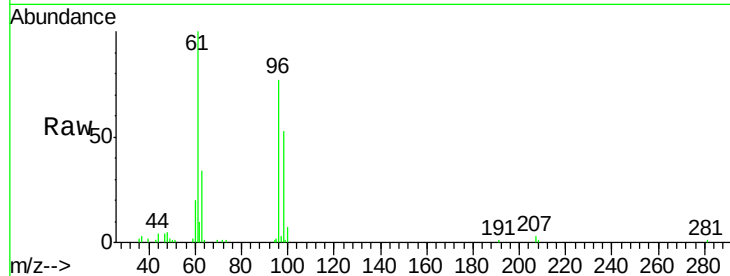


#27

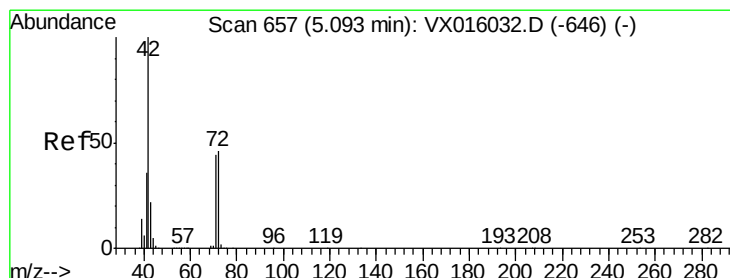
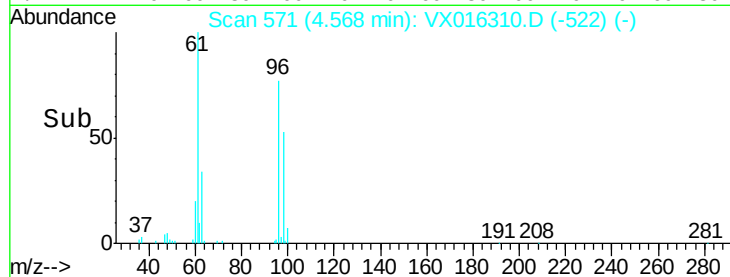
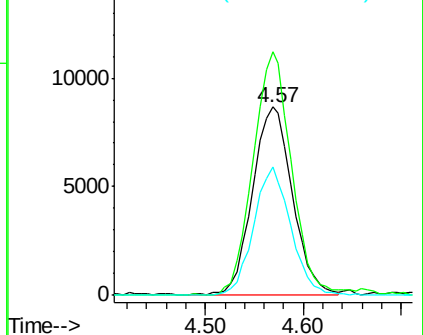
cis-1,2-Dichloroethene
Concen: 7.374 ug/l
RT: 4.57 min Scan# 571
Delta R.T. -0.00 min
Lab File: VX016310.D
Acq: 18 May 2020 19:57

Instrument :
MSVOA_X
ClientSampleId :
WP021MW173-200514

Tot Ion	96	Resp	24666
Ion	Ratio	Lower	Upper
96	100		
61	124.8	0.0	296.2
98	63.1	0.0	129.4



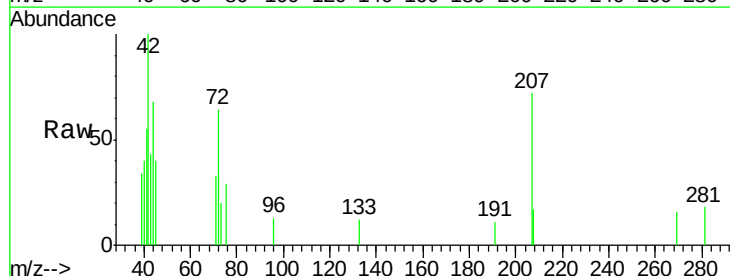
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



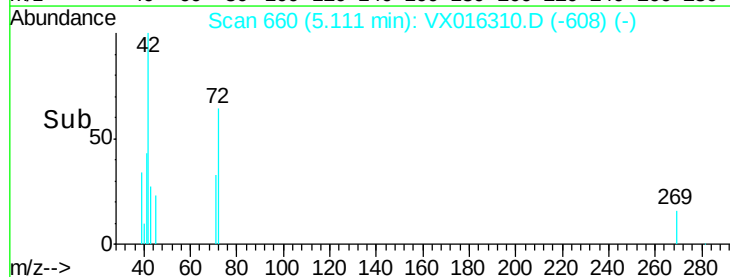
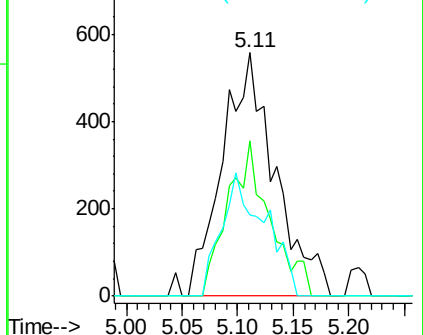
#29

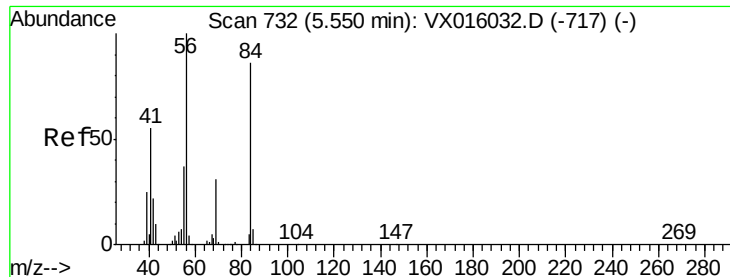
Tetrahydrofuran
Concen: 1.112 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX016310.D
Acq: 18 May 2020 19:57

Tgt Ion	42	Resp	1842
Ion	Ratio	Lower	Upper
42	100		
72	50.8	37.1	55.7
71	41.5	34.5	51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

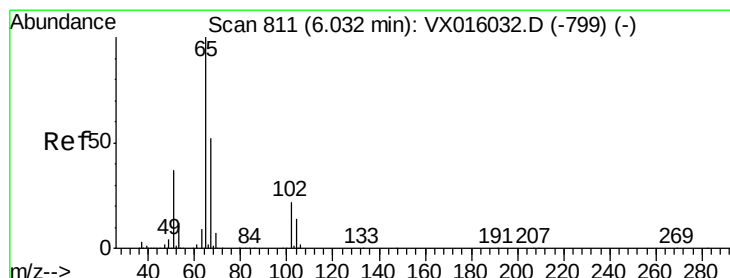
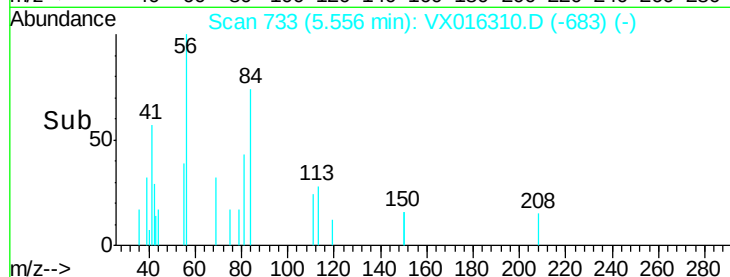
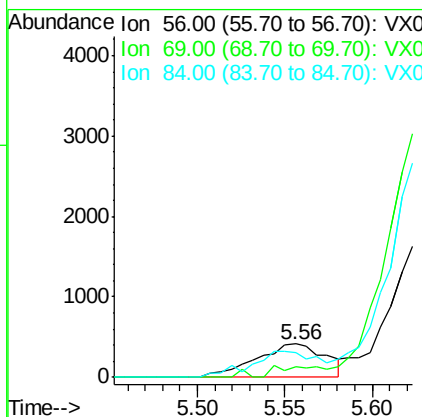
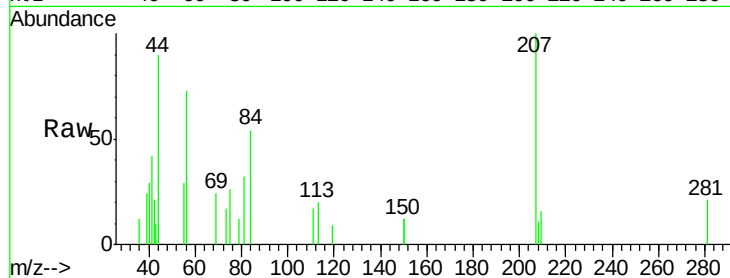




#31
Cyclohexane
Concen: 0.239 ug/l
RT: 5.56 min Scan# 733
Delta R.T. 0.01 min
Lab File: VX016310.D
Acq: 18 May 2020 19:57

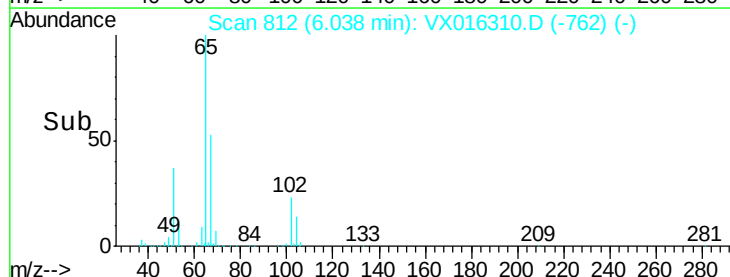
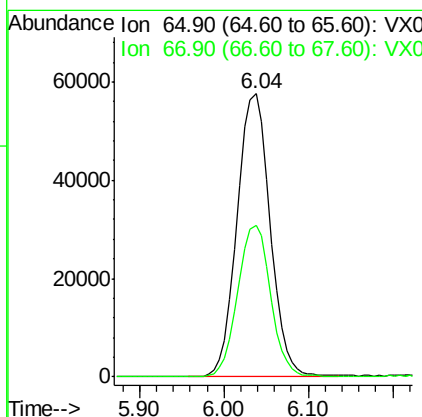
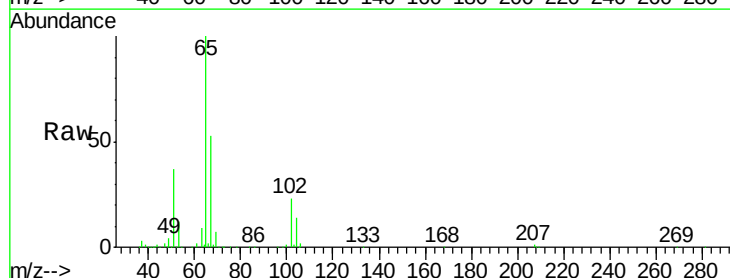
Instrument :
MSVOA_X
ClientSampleId :
WP021MW173-200514

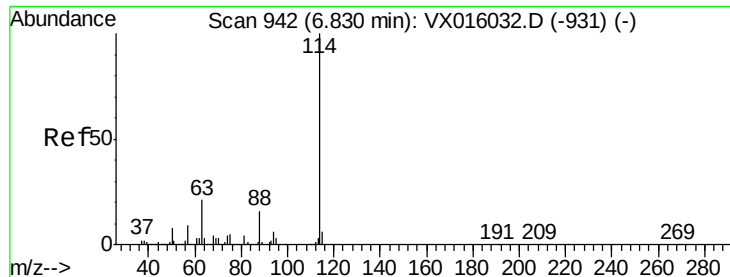
Tot Ion: 56 Resp: 1154
Ion Ratio Lower Upper
56 100
69 32.4 25.0 37.6
84 74.1 69.0 103.6



#33
1,2-Dichloroethane-d4
Concen: 44.008 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016310.D
Acq: 18 May 2020 19:57

Tgt Ion: 65 Resp: 152951
Ion Ratio Lower Upper
65 100
67 53.4 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

WP021MW173-200514

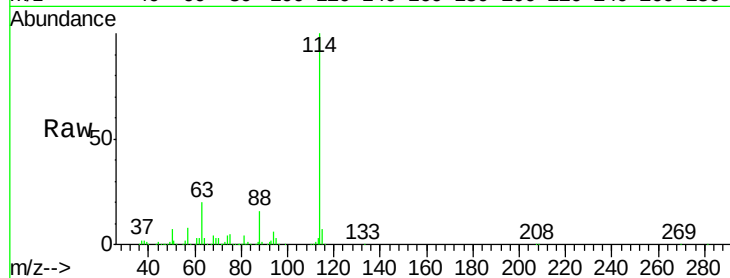
Tot Ion:114 Resp: 439685

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.8

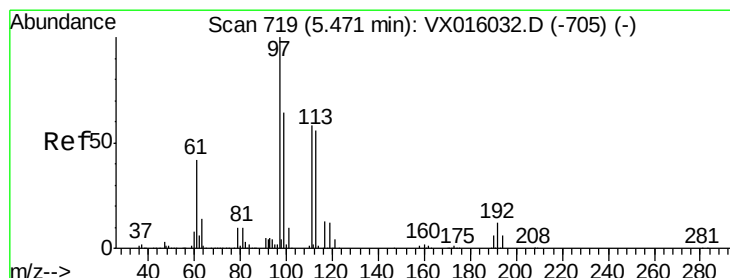
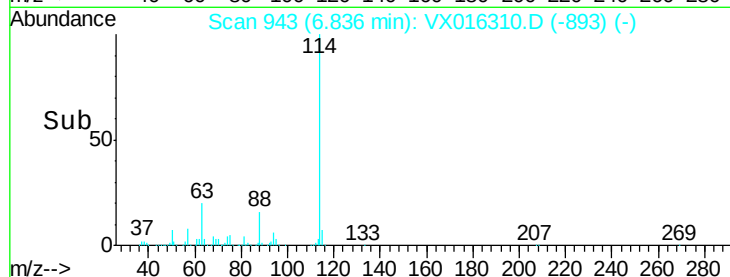
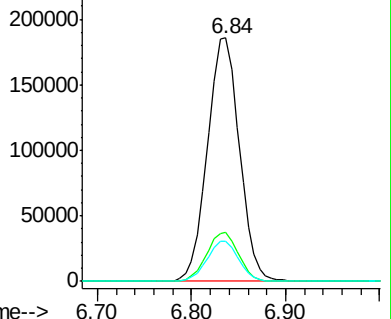
88 16.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 45.655 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

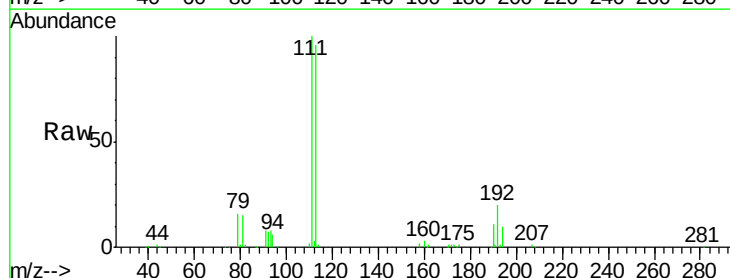
Tgt Ion:113 Resp: 127177

Ion Ratio Lower Upper

113 100

111 103.0 81.6 122.4

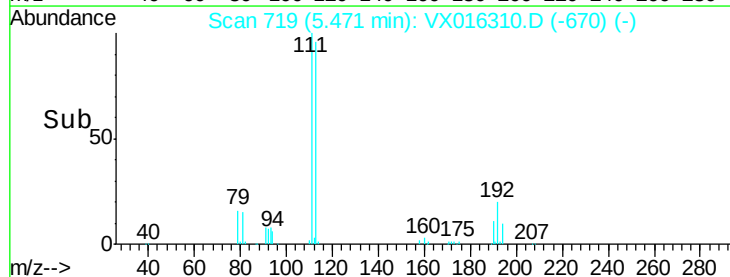
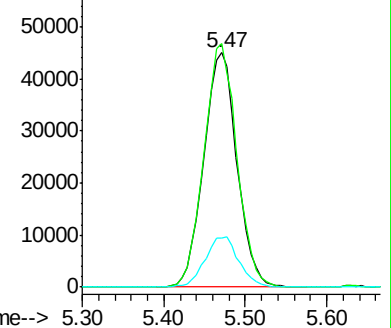
192 21.8 17.0 25.4

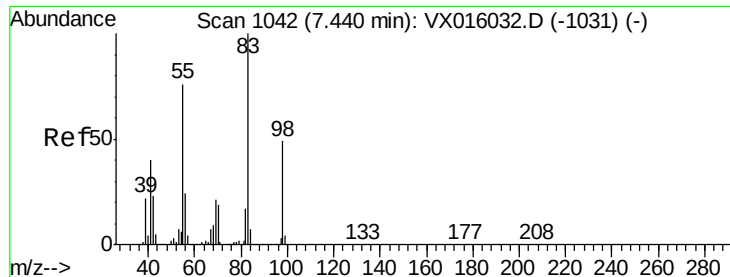


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#39

Methylvlcyclohexane

Concen: 2.686 ug/l

RT: 7.45 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

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ClientSampleId :

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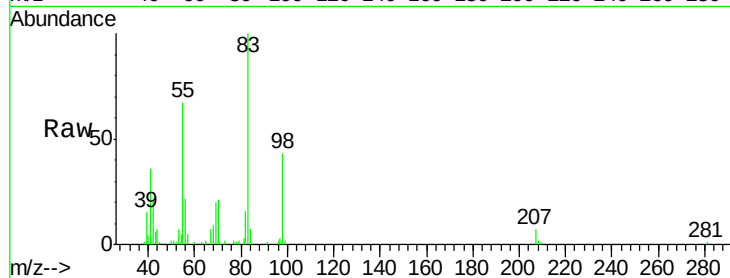
Tot Ion: 83 Resp: 13999

Ion Ratio Lower Upper

83 100

55 65.6 61.1 91.7

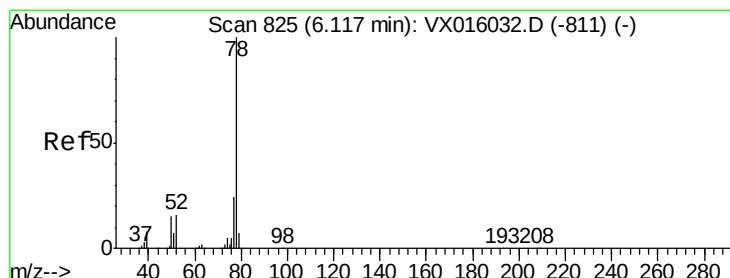
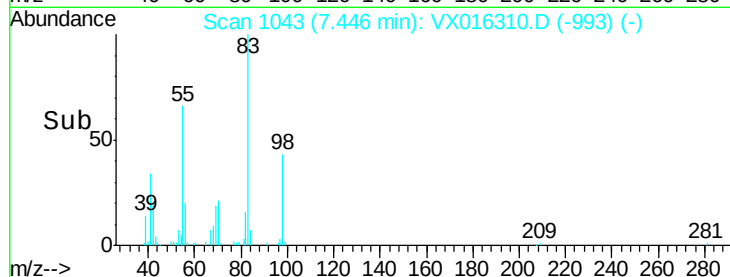
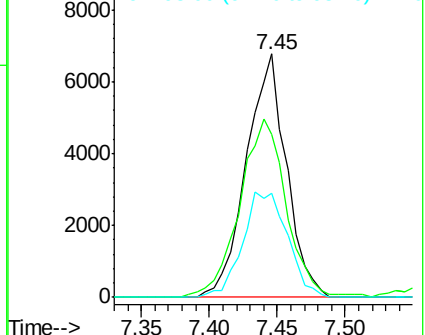
98 42.9 39.0 58.4



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#40

Benzene

Concen: 91.297 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX016310.D

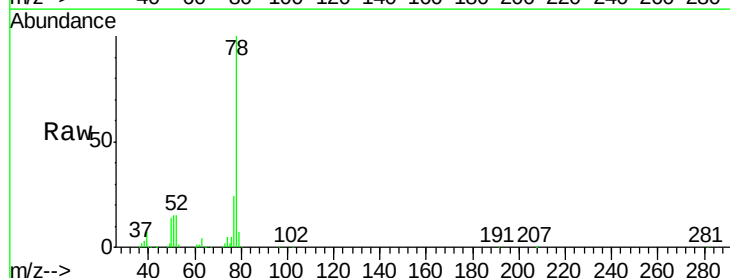
Acq: 18 May 2020 19:57

Tgt Ion: 78 Resp: 1156167

Ion Ratio Lower Upper

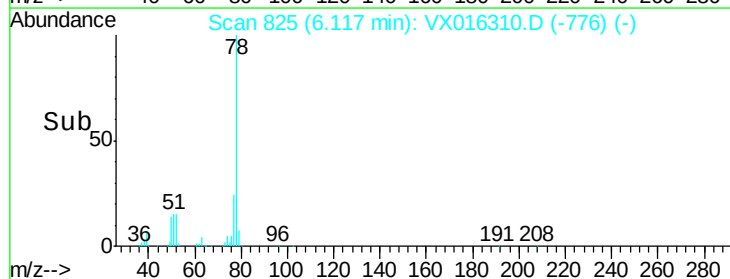
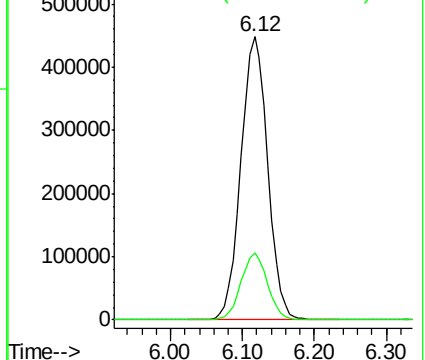
78 100

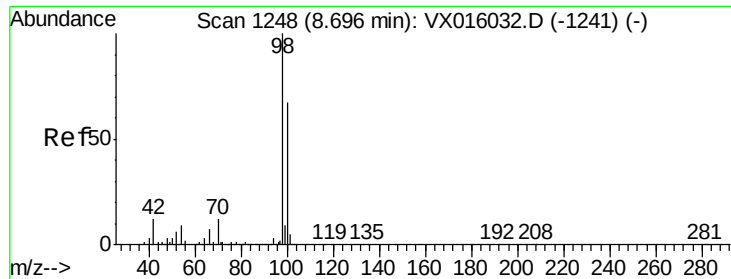
77 23.6 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 49.964 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

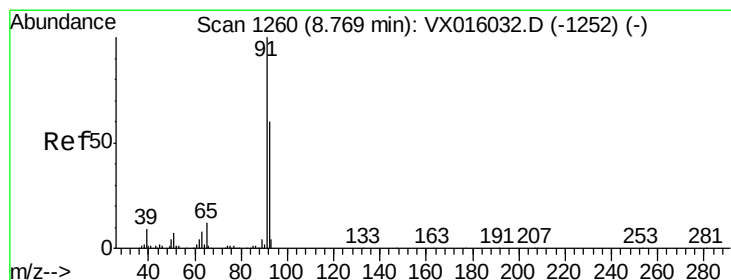
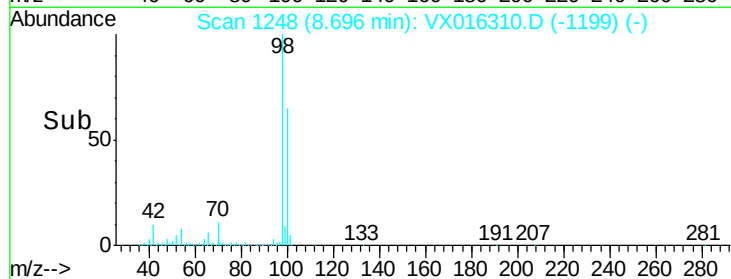
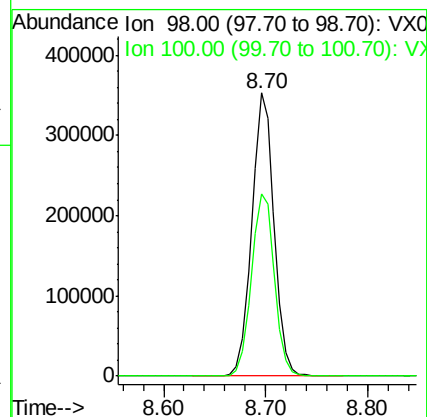
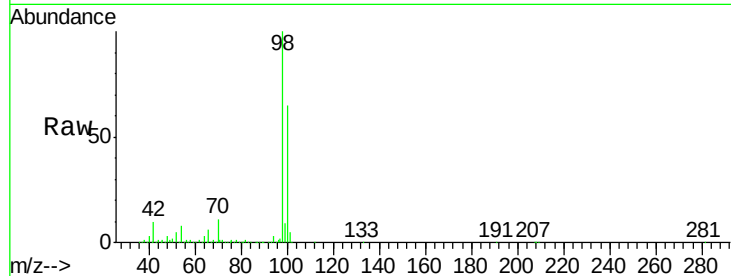
WP021MW173-200514

Tot Ion: 98 Resp: 536269

Ion Ratio Lower Upper

98 100

100 66.8 53.7 80.5



#52

Toluene

Concen: 1.453 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016310.D

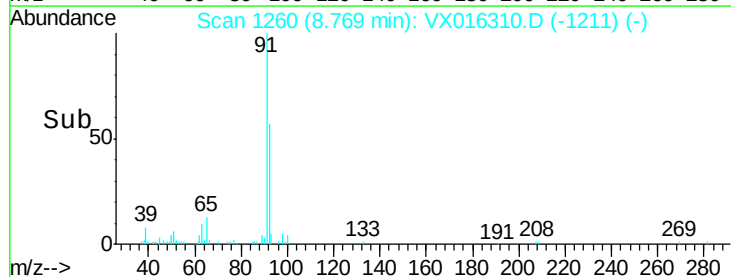
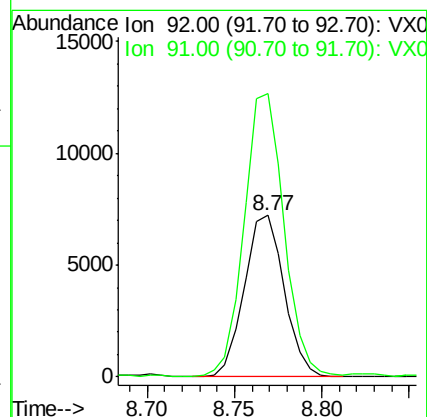
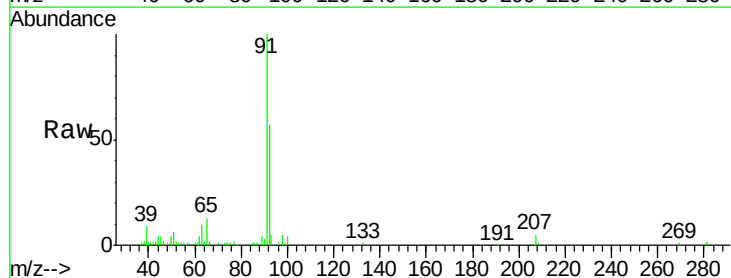
Acq: 18 May 2020 19:57

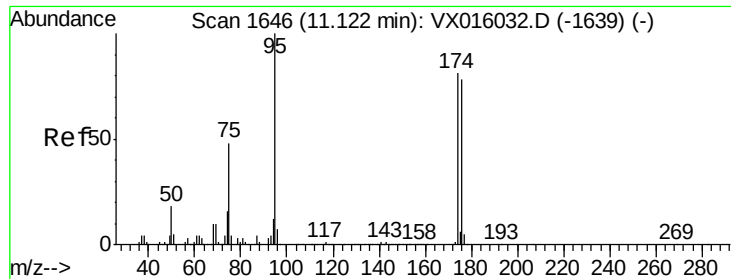
Tgt Ion: 92 Resp: 11473

Ion Ratio Lower Upper

92 100

91 175.0 134.5 201.7





#62

4-Bromofluorobenzene

Concen: 53.678 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

WP021MW173-200514

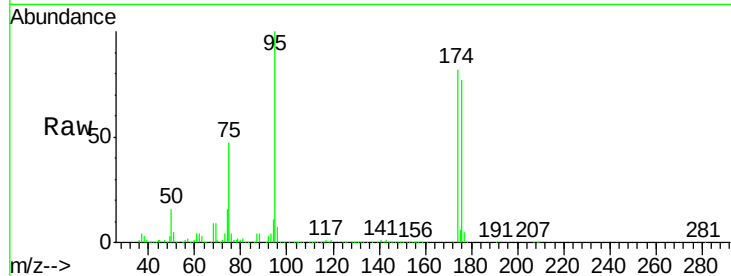
Tot Ion: 95 Resp: 219132

Ion Ratio Lower Upper

95 100

174 83.2 0.0 159.4

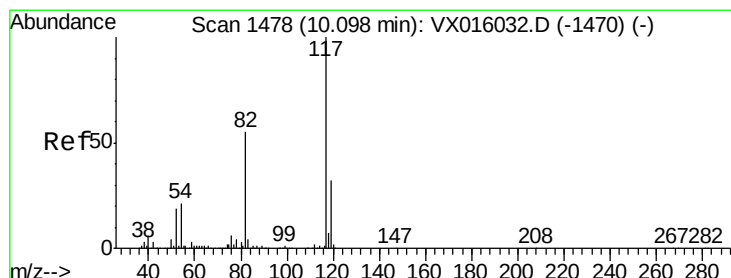
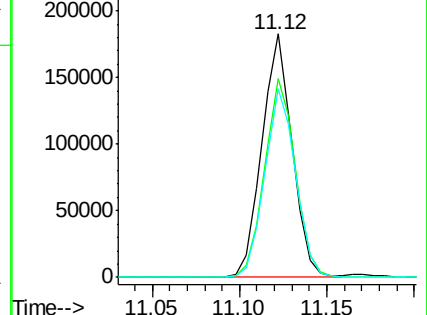
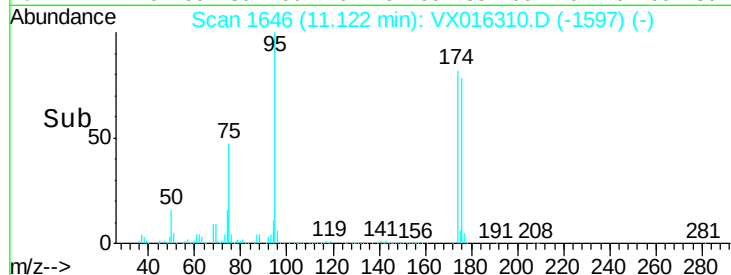
176 79.0 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016310.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016310.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016310.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

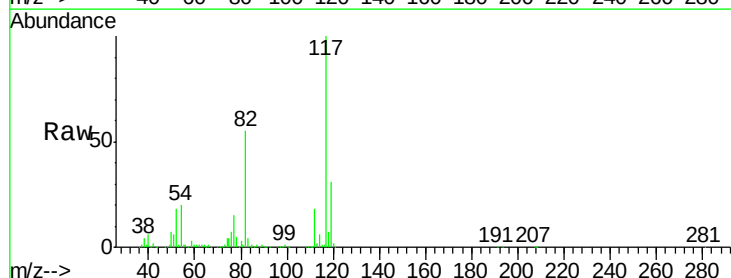
Tgt Ion: 117 Resp: 435510

Ion Ratio Lower Upper

117 100

82 55.2 44.4 66.6

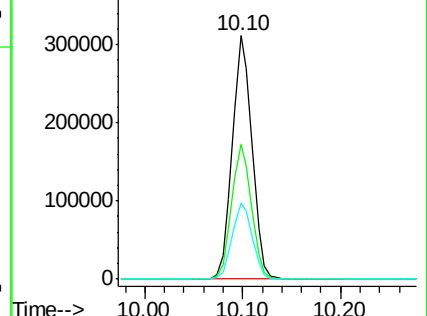
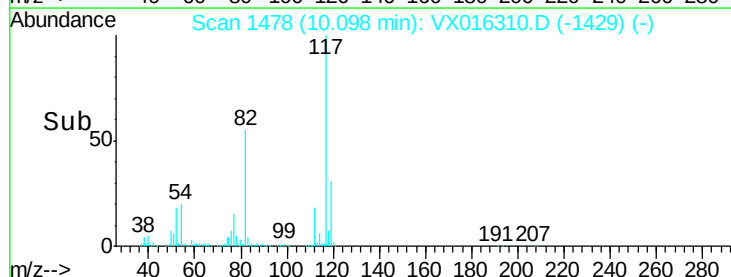
119 31.4 25.5 38.3

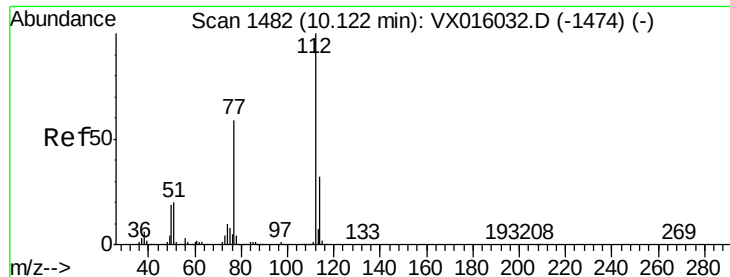


Abundance Ion 116.90 (116.60 to 117.60): VX016310.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016310.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016310.D (-1429) (-)

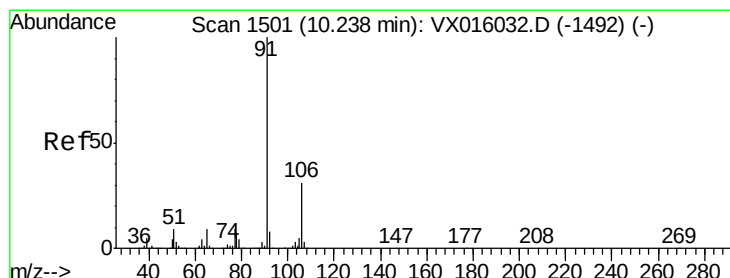
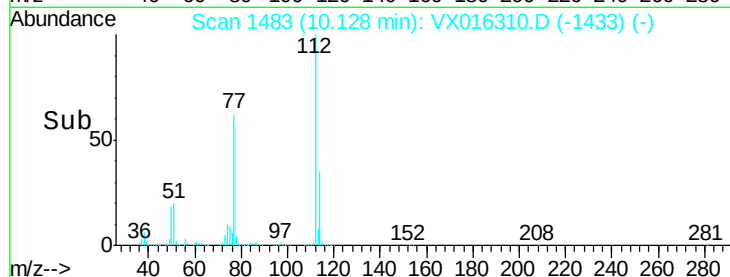
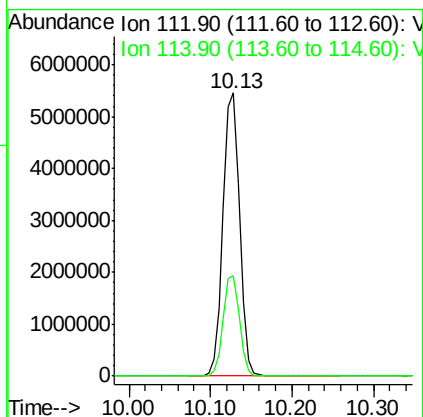
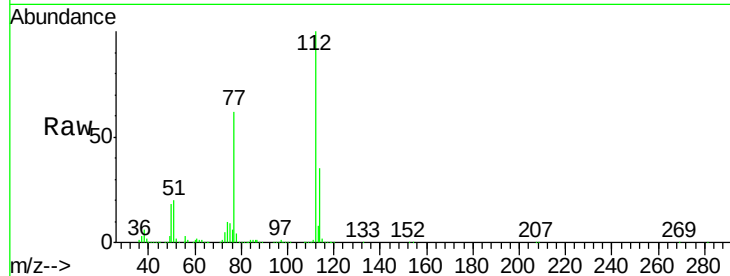




#65
Chlorobenzene
Concen: 851.541 ug/l
RT: 10.13 min Scan# 1483
Delta R.T. 0.01 min
Lab File: VX016310.D
Acq: 18 May 2020 19:57

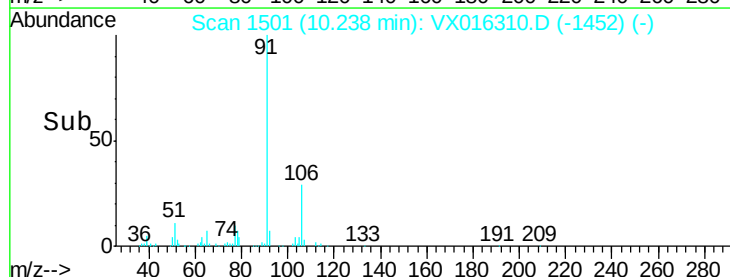
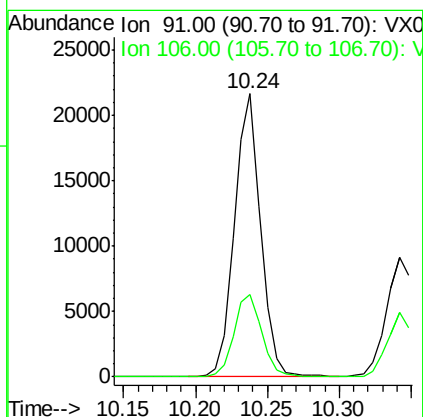
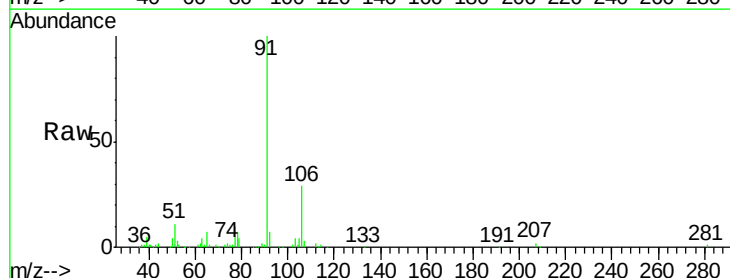
Instrument :
MSVOA_X
ClientSampleId :
WP021MW173-200514

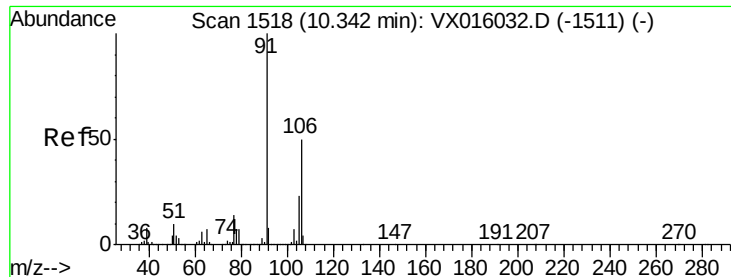
Tot Ion:112 Resp: 7765269
Ion Ratio Lower Upper
112 100
114 35.5 25.7 38.5



#67
Ethyl Benzene
Concen: 1.692 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. -0.00 min
Lab File: VX016310.D
Acq: 18 May 2020 19:57

Tgt Ion: 91 Resp: 27537
Ion Ratio Lower Upper
91 100
106 29.2 25.1 37.7





#68

m/p-Xylenes

Concen: 1.041 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

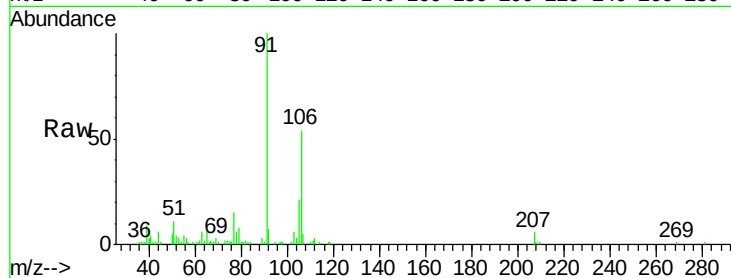
WP021MW173-200514

Tot Ion:106 Resp: 6349

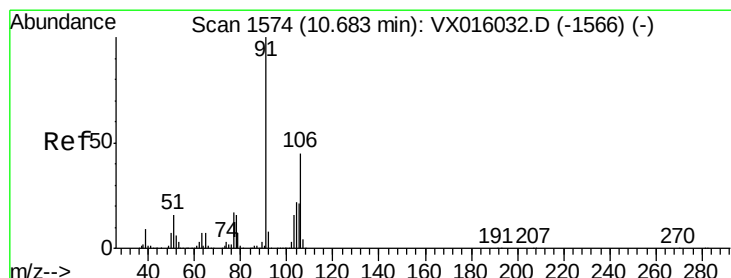
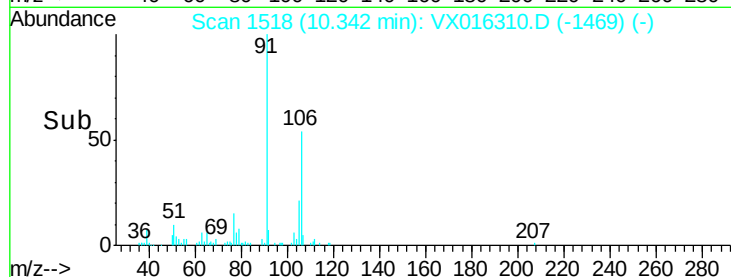
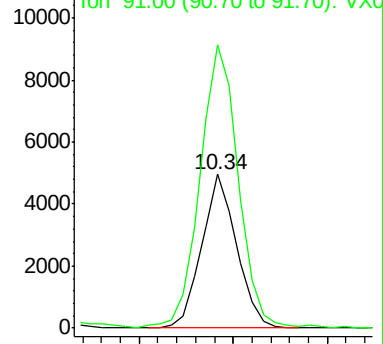
Ion Ratio Lower Upper

106 100

91 202.1 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 0.761 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX016310.D

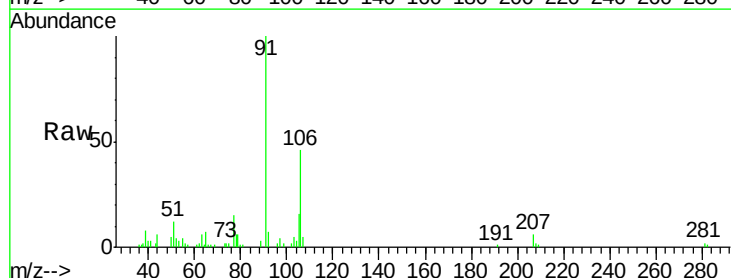
Acq: 18 May 2020 19:57

Tgt Ion:106 Resp: 4459

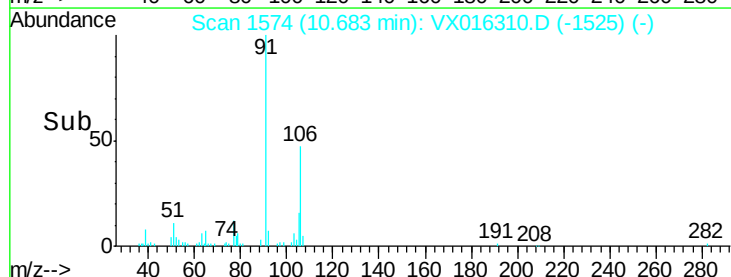
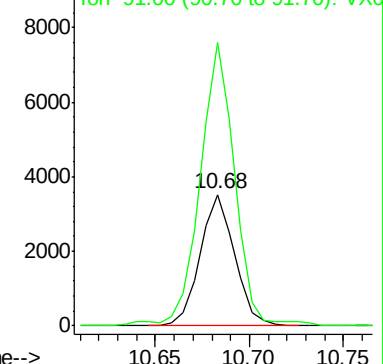
Ion Ratio Lower Upper

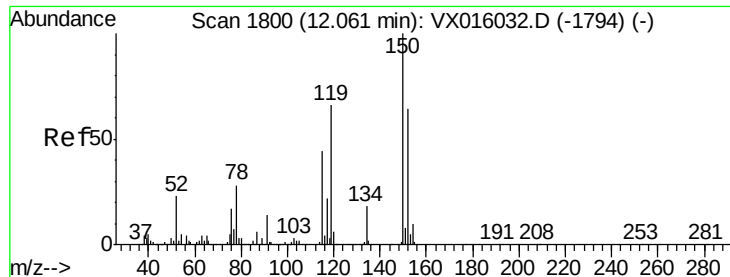
106 100

91 216.9 107.5 322.6



Abundance Ion 106.00 (105.70 to 106.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

WP021MW173-200514

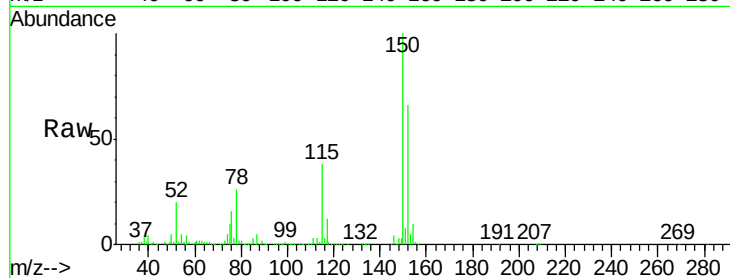
Tot Ion:152 Resp: 231160

Ion Ratio Lower Upper

152 100

115 57.4 41.3 124.1

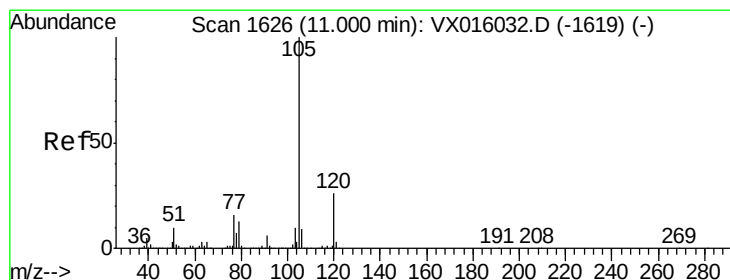
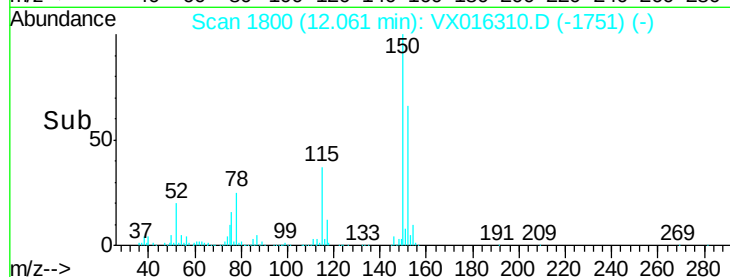
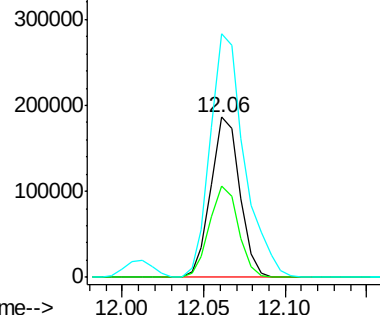
150 178.7 0.0 352.2



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



#73

Isopropylbenzene

Concen: 1.673 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX016310.D

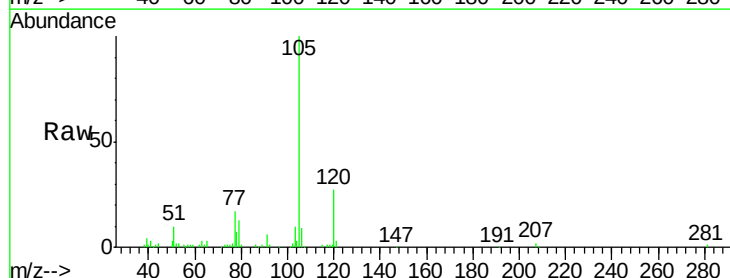
Acq: 18 May 2020 19:57

Tgt Ion:105 Resp: 28136

Ion Ratio Lower Upper

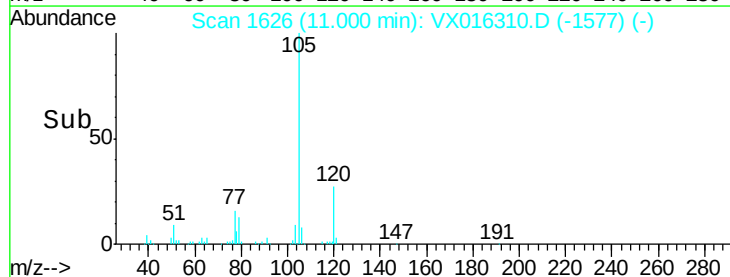
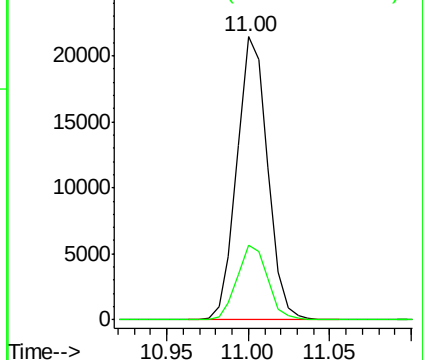
105 100

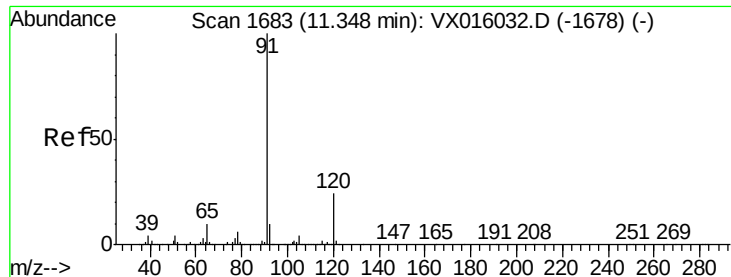
120 26.2 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 1.327 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

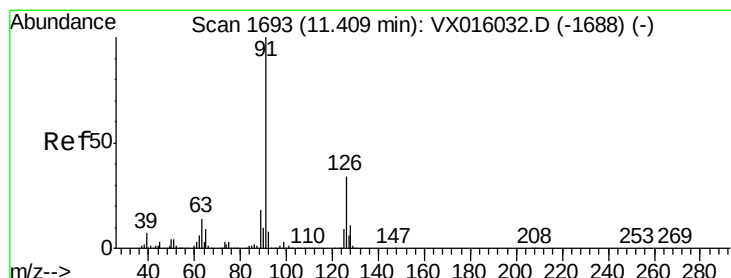
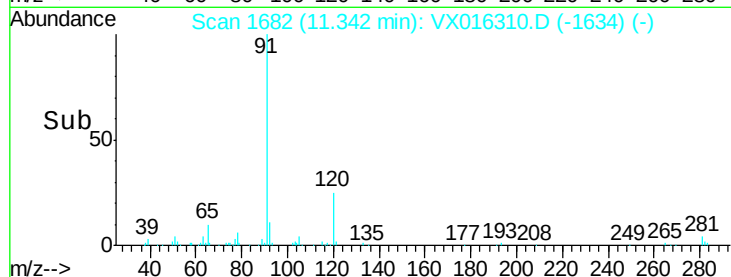
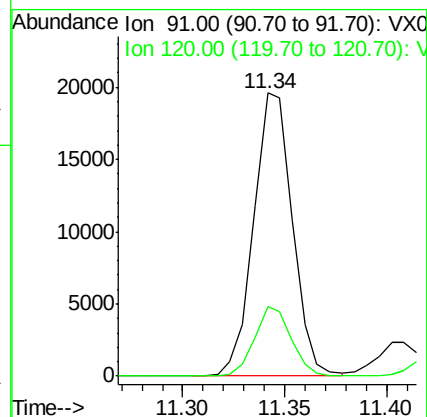
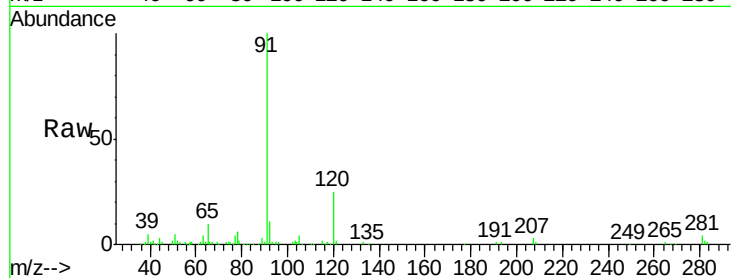
WP021MW173-200514

Tot Ion: 91 Resp: 25954

Ion Ratio Lower Upper

91 100

120 23.2 11.5 34.5



#79

2-Chlorotoluene

Concen: 0.368 ug/l

RT: 11.41 min Scan# 1693

Delta R.T. -0.00 min

Lab File: VX016310.D

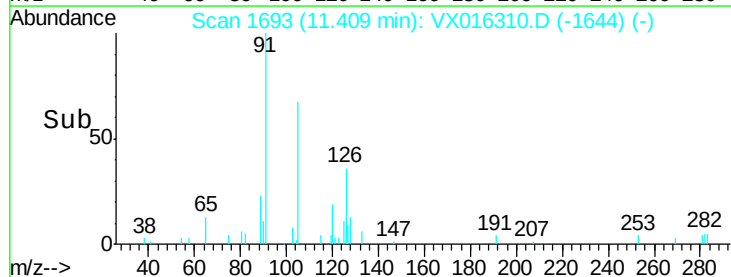
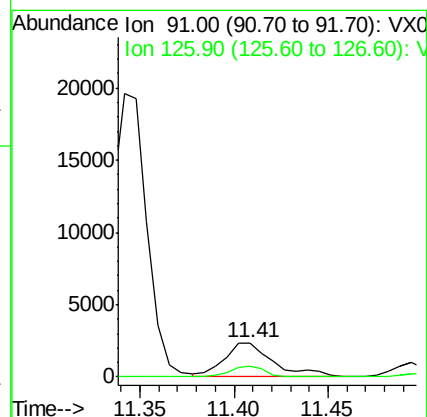
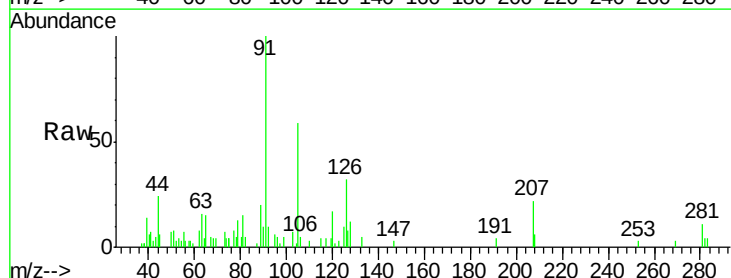
Acq: 18 May 2020 19:57

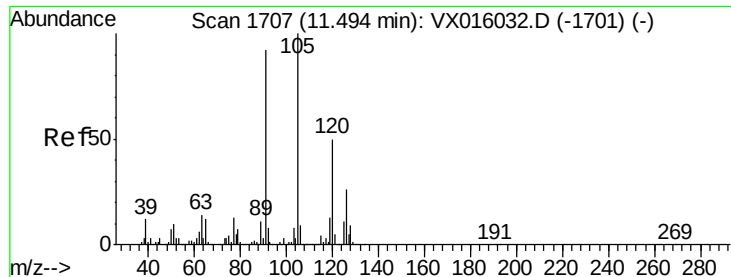
Tgt Ion: 91 Resp: 4245

Ion Ratio Lower Upper

91 100

126 23.3 16.9 50.6





#80

1,3,5-Trimethylbenzene

Concen: 0.252 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

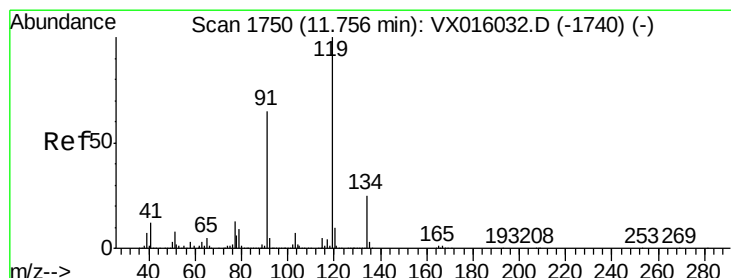
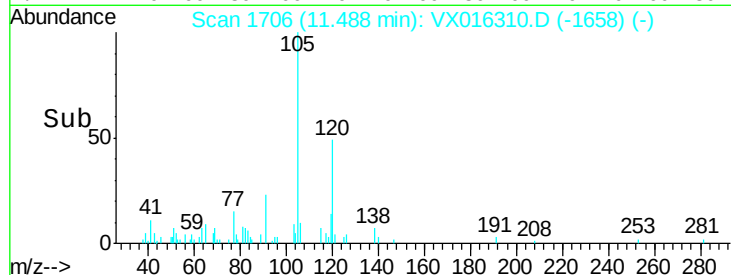
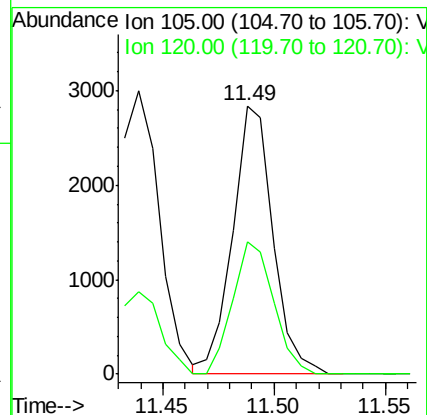
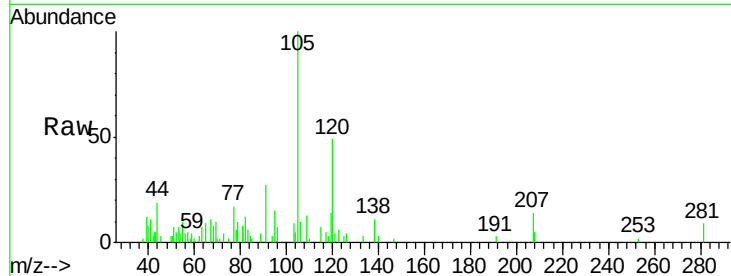
WP021MW173-200514

Tot Ion:105 Resp: 3582

Ion Ratio Lower Upper

105 100

120 49.8 24.6 74.0



#83

tert-Butylbenzene

Concen: 2.356 ug/l

RT: 11.76 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

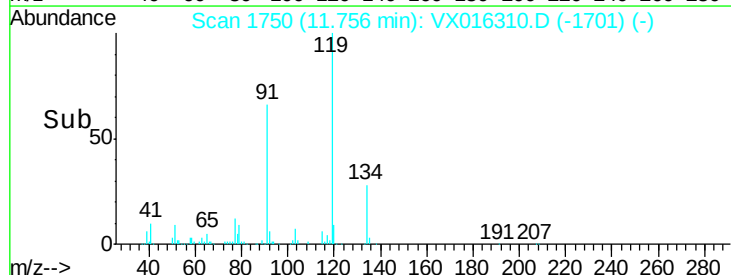
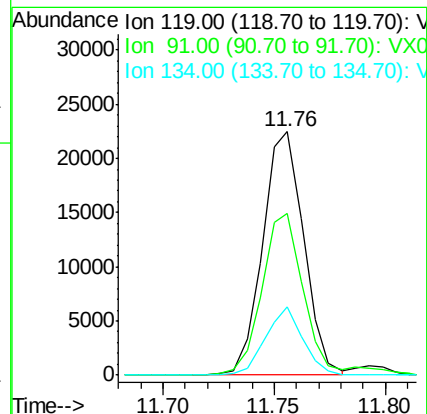
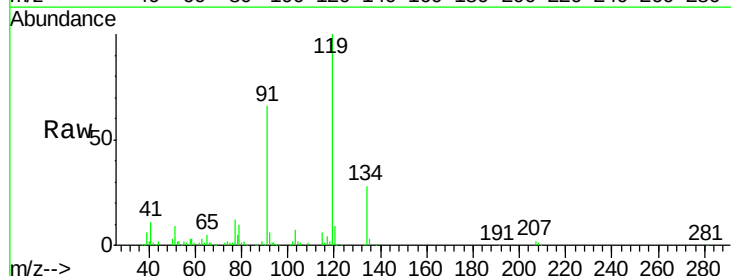
Tgt Ion:119 Resp: 28828

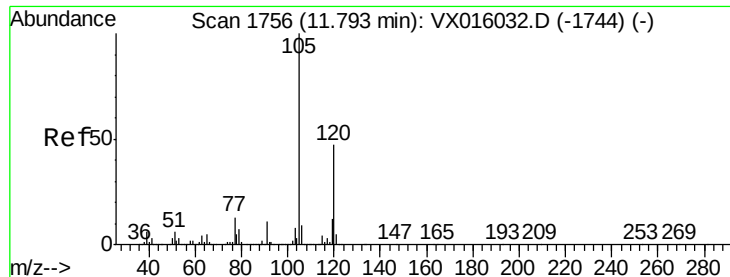
Ion Ratio Lower Upper

119 100

91 69.7 32.8 98.4

134 25.5 12.4 37.0





#84

1,2,4-Trimethylbenzene

Concen: 0.517 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

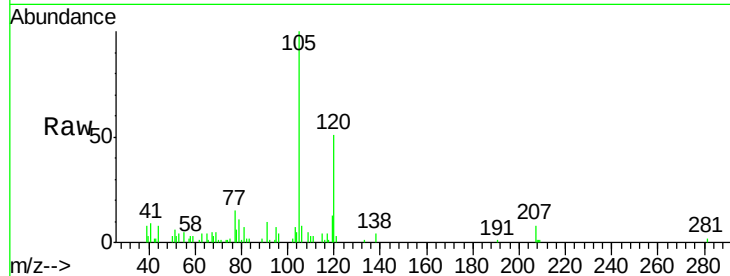
WP021MW173-200514

Tot Ion:105 Resp: 7424

Ion Ratio Lower Upper

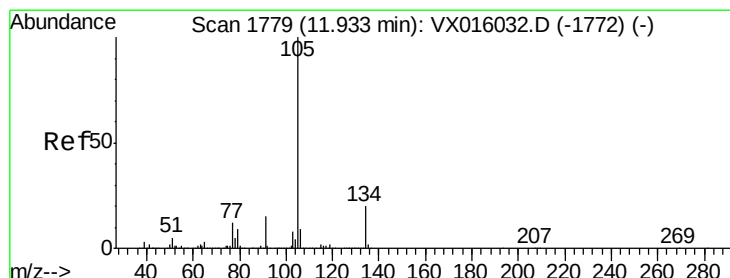
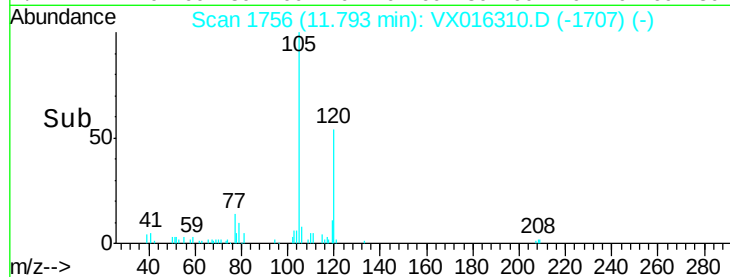
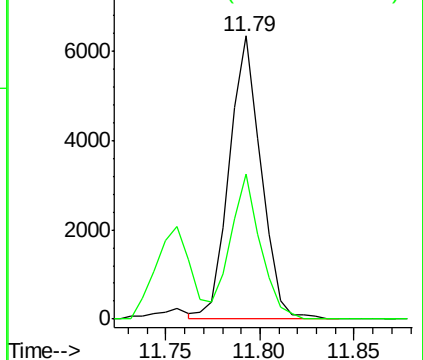
105 100

120 48.1 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 1.714 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VX016310.D

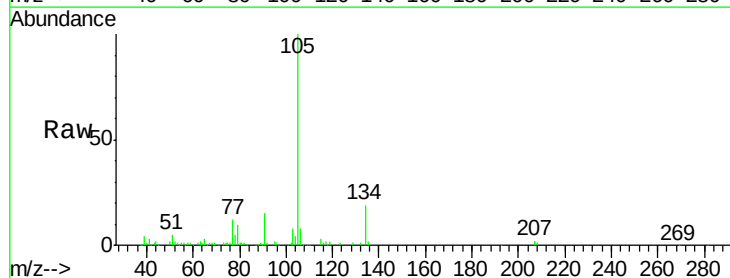
Acq: 18 May 2020 19:57

Tgt Ion:105 Resp: 28320

Ion Ratio Lower Upper

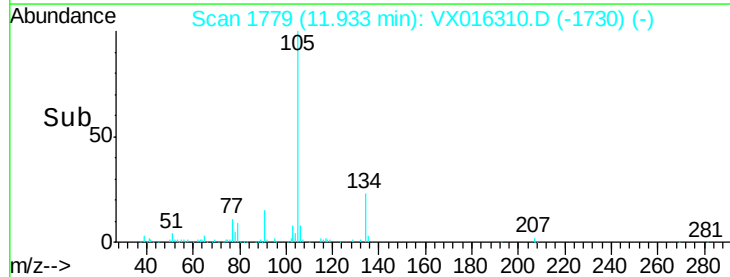
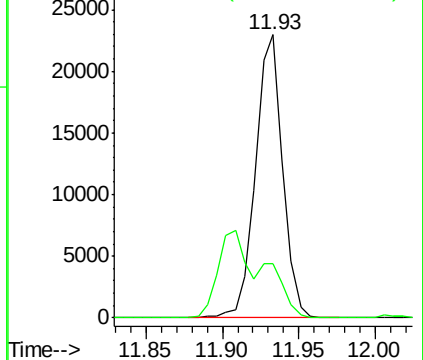
105 100

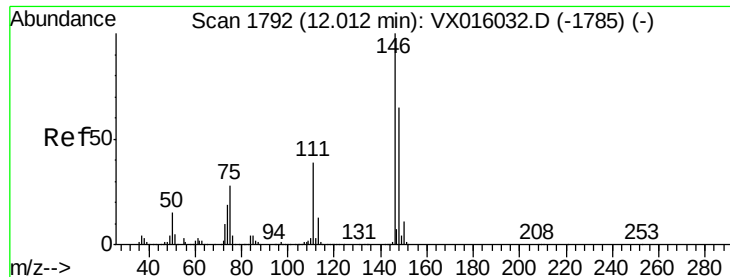
134 0.0 10.1 30.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#87

1,3-Dichlorobenzene

Concen: 31.997 ug/l

RT: 12.01 min Scan# 1792

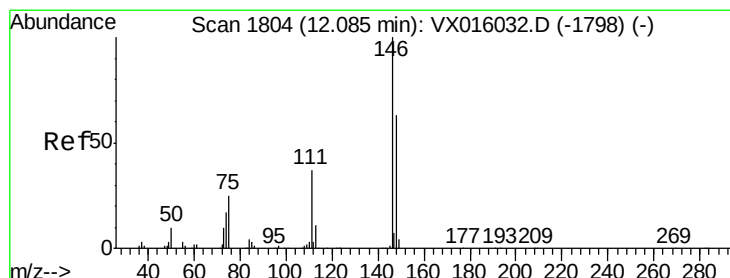
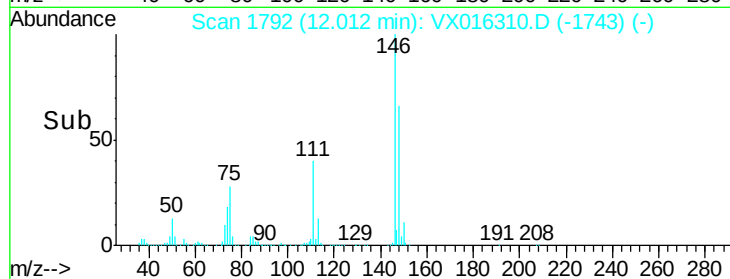
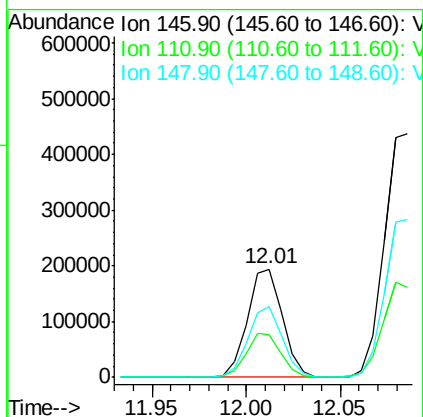
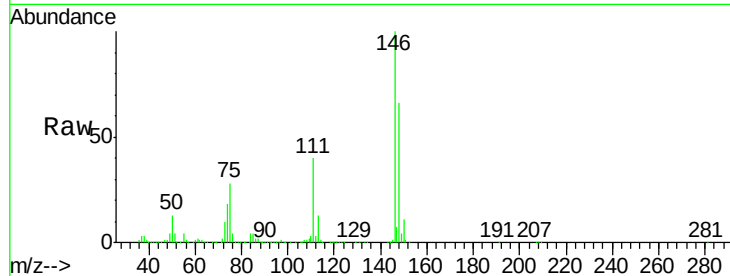
Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :
MSVOA_X
ClientSampleId :
WP021MW173-200514

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.2	60.6
148	64.3	32.1	96.3



#88

1,4-Dichlorobenzene

Concen: 70.330 ug/l

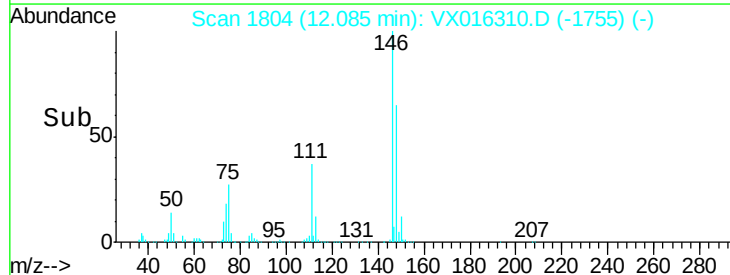
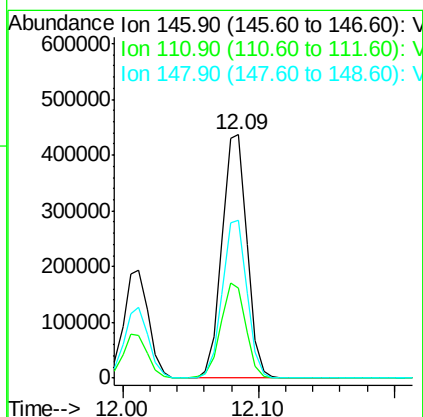
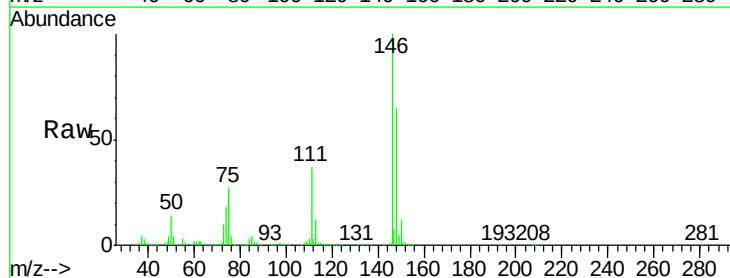
RT: 12.09 min Scan# 1804

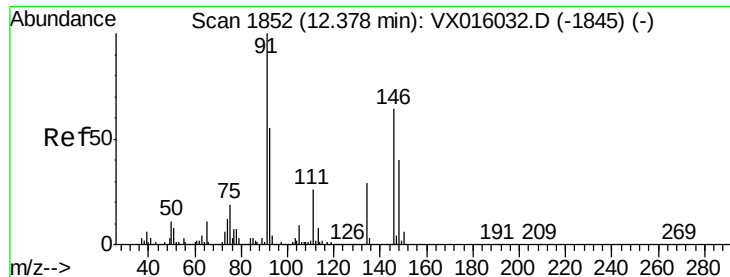
Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.7
148	64.1	31.8	95.3

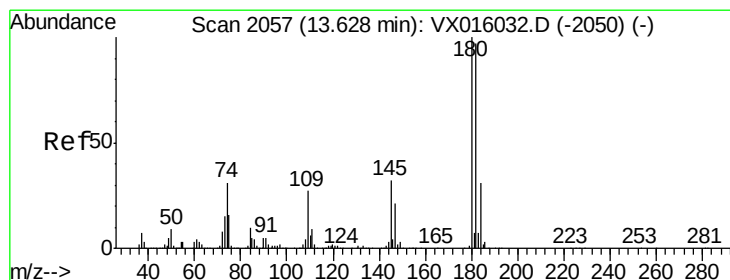
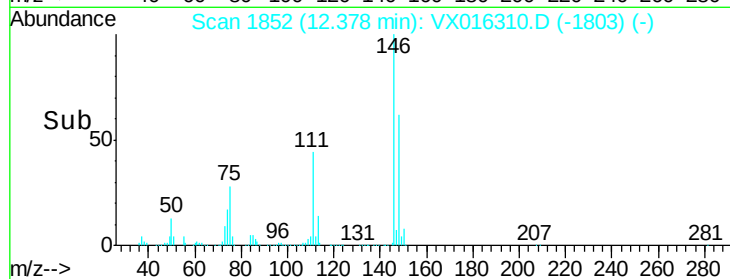
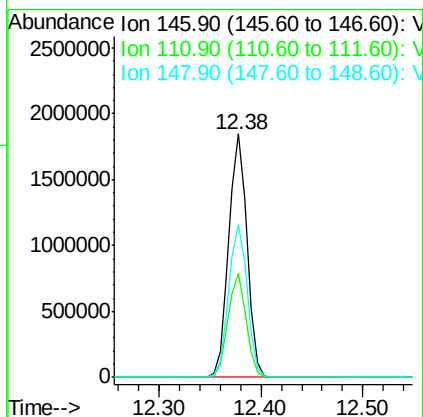
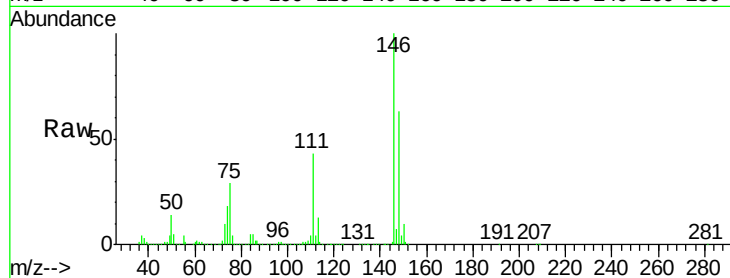




#91
 1,2-Dichlorobenzene
 Concen: 301.944 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX016310.D
 Acq: 18 May 2020 19:57

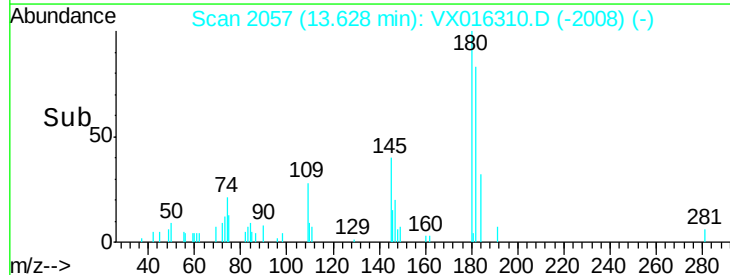
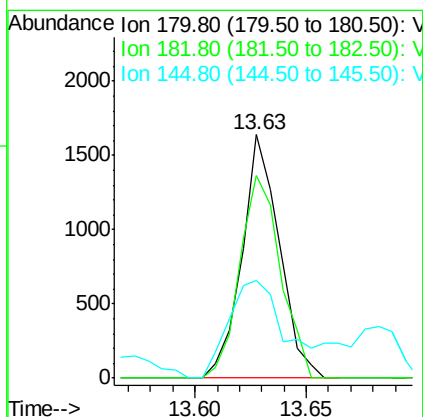
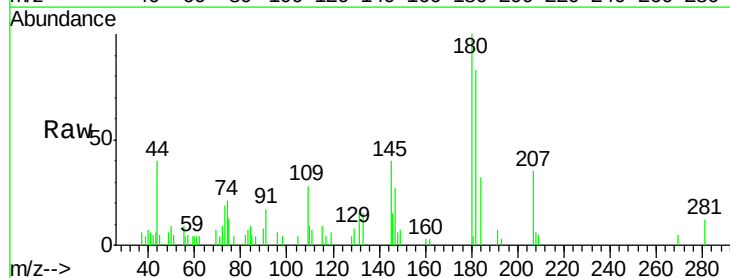
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW173-200514

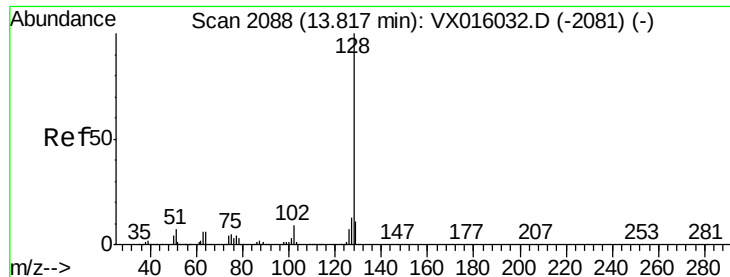
Tot Ion:146 Resp: 2265531
 Ion Ratio Lower Upper
 146 100
 111 42.3 21.1 63.1
 148 63.9 32.4 97.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.345 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX016310.D
 Acq: 18 May 2020 19:57

Tgt Ion:180 Resp: 1919
 Ion Ratio Lower Upper
 180 100
 182 90.6 48.7 146.1
 145 59.6 15.7 47.1#





#95

Naphthalene

Concen: 1.375 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016310.D

Acq: 18 May 2020 19:57

Instrument :

MSVOA_X

ClientSampleId :

WP021MW173-200514

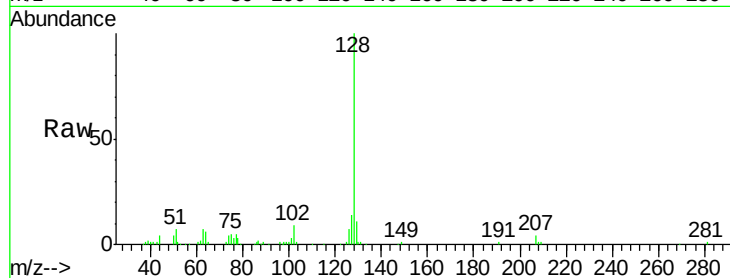
Tot Ion:128 Resp: 24738

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.4

129 11.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

