

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093020\
 Data File : VV018572.D
 Acq On : 30 Sep 2020 16:16
 Operator : SY/MD
 Sample : L4171-14
 Misc : 6.13g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Y4

Quant Time: Oct 01 07:42:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 01 07:39:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	318594	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	315022	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.28	152	176011	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	100565	53.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.64%
7) Chloroethane-d5	1.58	69	91224	59.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	118.10%
11) 1,1-Dichloroethene-d2	2.10	63	164431	43.19	ug/L	-0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.38%
21) 2-Butanone-d5	3.93	46	170253	122.16	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.16%
24) Chloroform-d	4.37	84	245227	60.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	121.38%
26) 1,2-Dichloroethane-d4	5.05	65	173222	67.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	135.06%#
32) Benzene-d6	5.07	84	495712	62.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	124.24%
36) 1,2-Dichloropropane-d6	6.09	67	161661	67.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	134.10%#
41) Toluene-d8	7.34	98	473427	63.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	126.14%#
43) trans-1,3-Dichloropropene-	7.65	79	82942	63.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	127.36%#
47) 2-Hexanone-d5	8.15	63	143474	156.67	ug/L	0.04
Spiked Amount	100.000	Range	45 - 130	Recovery	=	156.67%#
57) 1,1,2,2-Tetrachloroethane-	10.25	84	223081	69.79	ug/L	0.02
Spiked Amount	50.000	Range	65 - 120	Recovery	=	139.58%#
64) 1,2-Dichlorobenzene-d4	11.65	152	223584	66.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	132.10%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.10	101	1545	0.745	ug/L #	21
29) Cyclohexane	4.69	56	340289	94.711	ug/L	98
35) Methylcyclohexane	6.14	83	9332	2.575	ug/L	91
42) Toluene	7.41	91	24086	2.406	ug/L	97
44) trans-1,3-Dichloropropene	7.65	75	4080	1.115	ug/L	98
48) 2-Hexanone	8.14	43	12161	5.087	ug/L #	47
52) Ethylbenzene	9.04	91	586502	52.455	ug/L	100
53) m,p-Xylene	9.16	106	1197240	277.073	ug/L	100
54) o-xylene	9.57	106	304090	74.332	ug/L	100
55) Styrene	9.57	104	15087	2.118	ug/L #	1
56) Isopropylbenzene	9.95	105	2155919	196.499	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	7743	2.337	ug/L #	77
59) 1,2,3-Trichloropropane	10.38	75	71984	24.923	ug/L #	1
62) 1,3-Dichlorobenzene	11.21	146	18387	3.228	ug/L #	87
63) 1,4-Dichlorobenzene	11.30	146	11087	1.890	ug/L #	80
65) 1,2-Dichlorobenzene	11.67	146	68361	12.131	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.44	75	17681	22.984	ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093020\
Data File : VV018572.D
Acq On : 30 Sep 2020 16:16
Operator : SY/MD
Sample : L4171-14
Misc : 6.13g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BG3Y4

Quant Time: Oct 01 07:42:15 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 01 07:39:17 2020
Response via : Initial Calibration

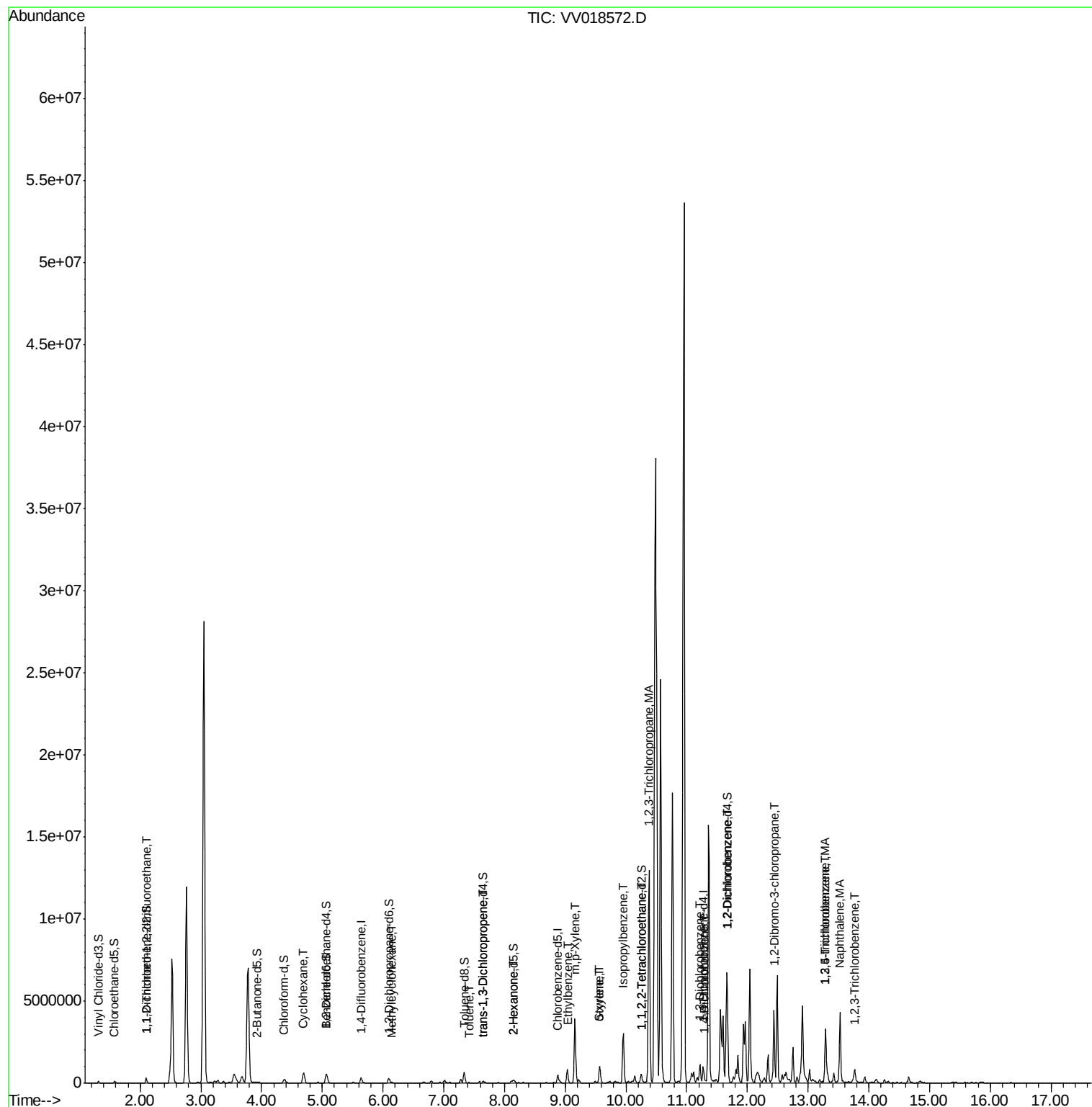
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	13.29	180	747509	189.446	ug/L	99
68) 1,2,4-trichlorobenzene	13.29	180	747509	203.588	ug/L	99
69) Naphthalene	13.53	128	3292151	313.229	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	231858	62.905	ug/L	97

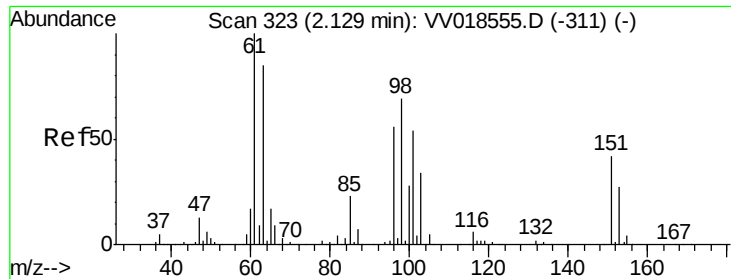
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV093020\
Data File : VV018572.D
Acq On : 30 Sep 2020 16:16
Operator : SY/MD
Sample : L4171-14
Misc : 6.13a/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BG3Y4

Quant Time: Oct 01 07:42:15 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 01 07:39:17 2020
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.745 ug/L

RT: 2.10 min Scan# 314

Delta R.T. -0.03 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampleId :

BG3Y4

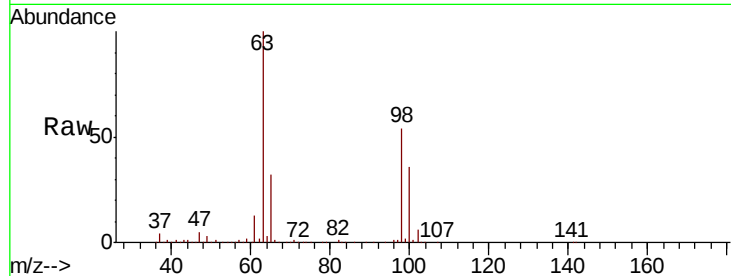
Tot Ion:101 Resp: 1545

Ion Ratio Lower Upper

101 100

85 2.7 34.6 52.0#

151 2.7 64.3 96.5#



Abundance Ion 101.00 (100.70 to 101.70): VV018555.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV018555.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV018555.D (-311) (-)

Time-->

2.06 2.08 2.10 2.12 2.14

1200

1000

800

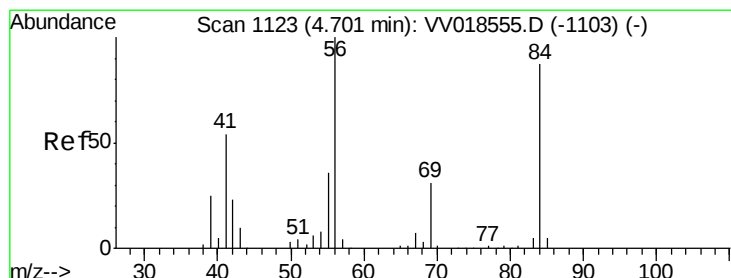
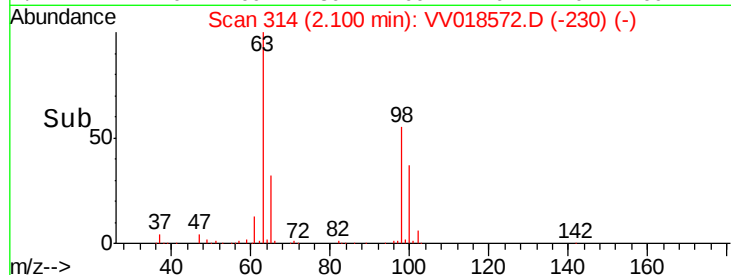
600

400

200

0

2.06 2.08 2.10 2.12 2.14



#29

Cyclohexane

Concen: 94.711 ug/L

RT: 4.69 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

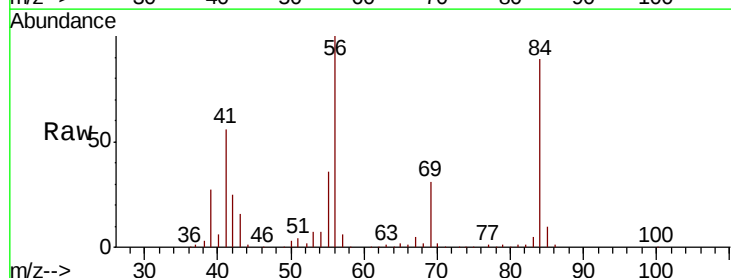
Tgt Ion: 56 Resp: 340289

Ion Ratio Lower Upper

56 100

69 31.0 24.8 37.2

84 88.3 72.2 108.4



Abundance Ion 56.00 (55.70 to 56.70): VV018555.D (-1103) (-)

Ion 69.00 (68.70 to 69.70): VV018555.D (-1103) (-)

Ion 84.00 (83.70 to 84.70): VV018555.D (-1103) (-)

Time-->

4.60 4.65 4.70 4.75 4.80

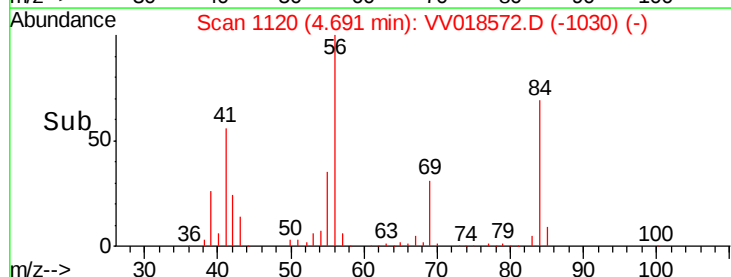
150000

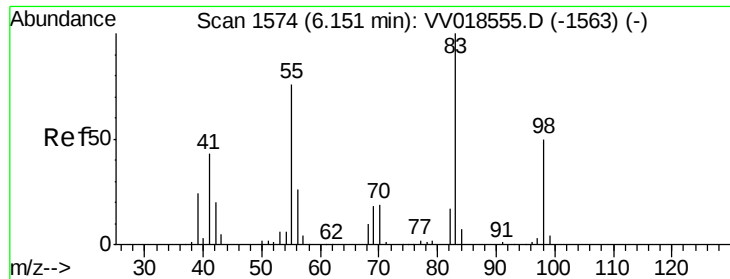
100000

50000

0

4.60 4.65 4.70 4.75 4.80

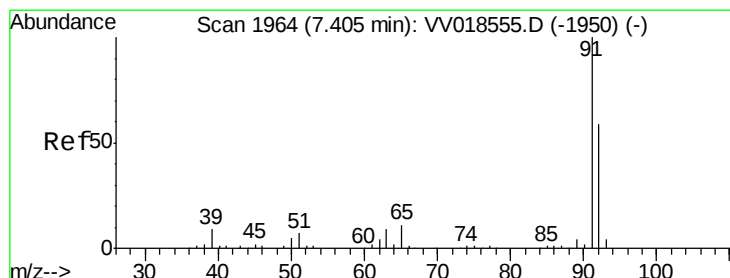
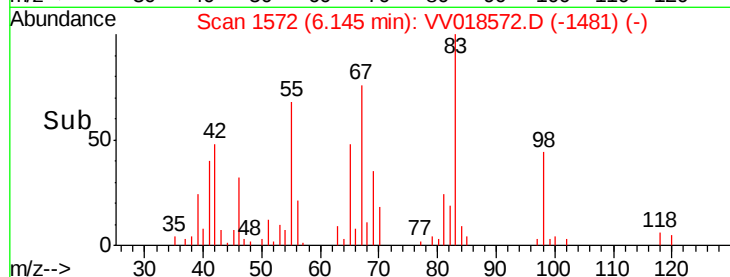
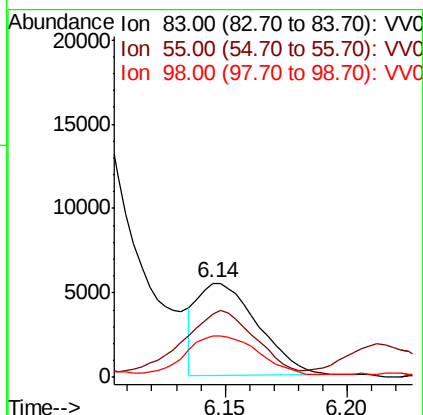
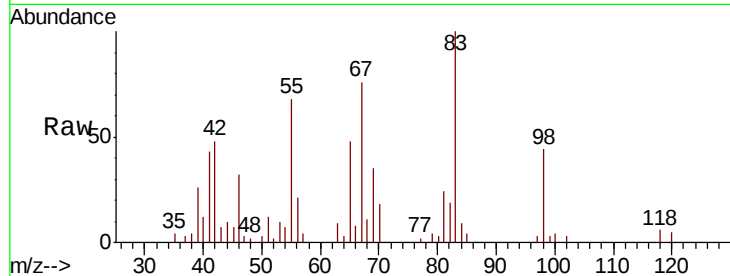




#35
Methvlcvclohexane
Concen: 2.575 ug/L
RT: 6.14 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VV018572.D
Acq: 30 Sep 2020 16:16

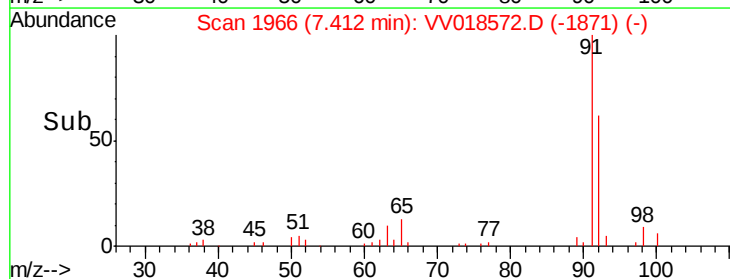
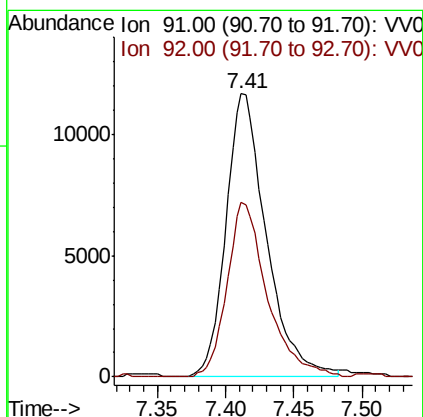
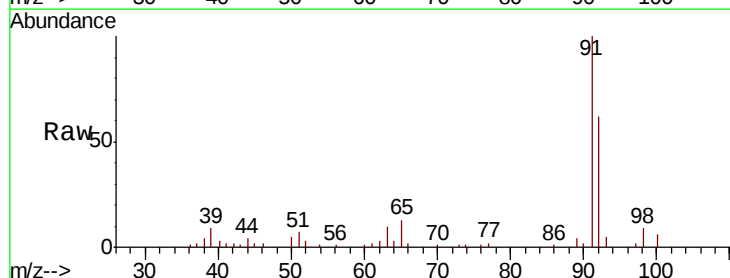
Instrument :
MSVOA_V
ClientSampleId :
BG3Y4

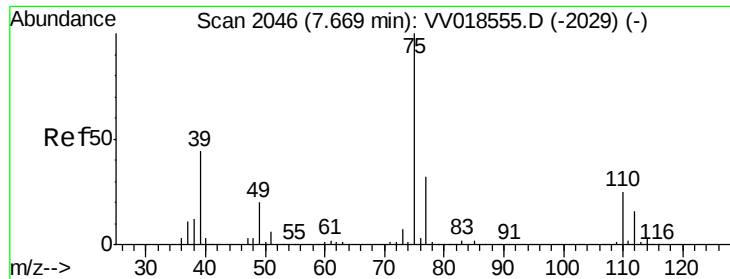
Tot Ion: 83 Resp: 9332
Ion Ratio Lower Upper
83 100
55 86.9 60.1 90.1
98 52.2 40.2 60.4



#42
Toluene
Concen: 2.406 ug/L
RT: 7.41 min Scan# 1966
Delta R.T. 0.01 min
Lab File: VV018572.D
Acq: 30 Sep 2020 16:16

Tgt Ion: 91 Resp: 24086
Ion Ratio Lower Upper
91 100
92 61.6 41.6 77.3





#44

trans-1,3-Dichloropropene

Concen: 1.115 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.02 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampleId :

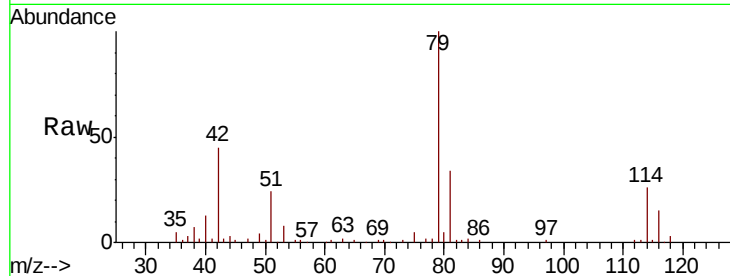
BG3Y4

Tot Ion: 75 Resp: 4080

Ion Ratio Lower Upper

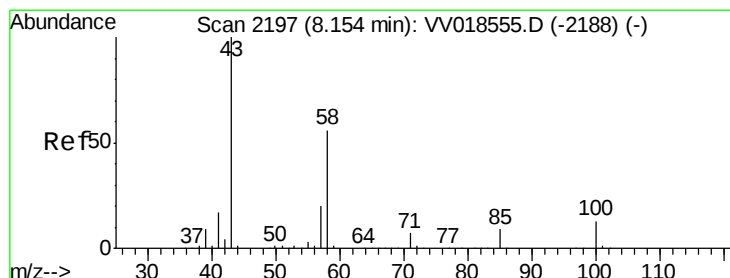
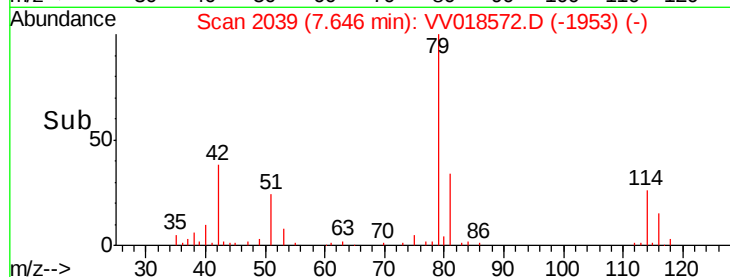
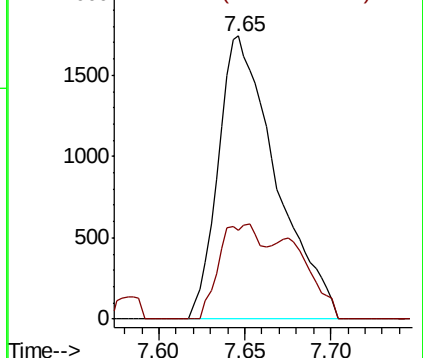
75 100

77 31.5 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#48

2-Hexanone

Concen: 5.087 ug/L

RT: 8.14 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Tgt Ion: 43 Resp: 12161

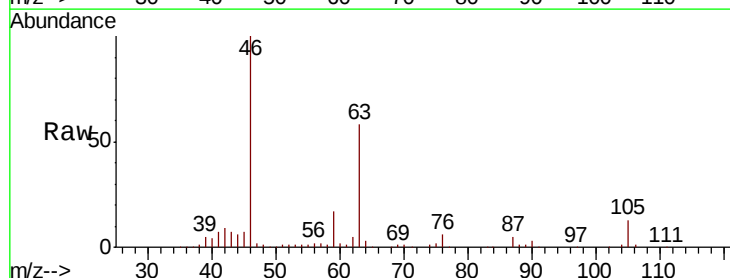
Ion Ratio Lower Upper

43 100

58 10.6 45.1 67.7#

57 0.0 15.7 23.5#

100 1.2 11.0 16.4#

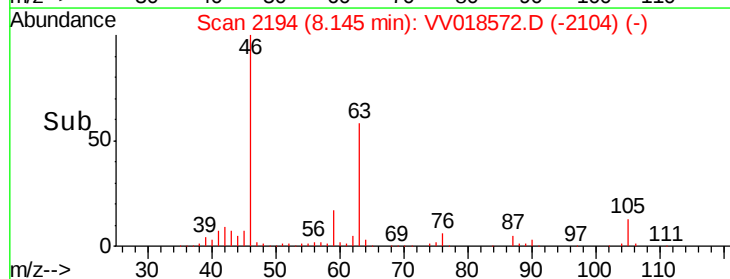
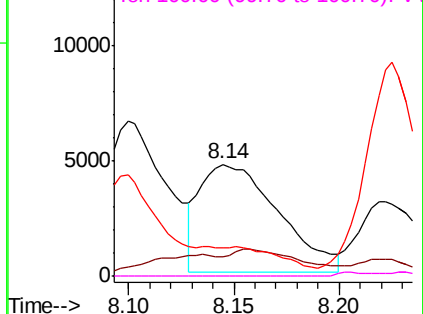


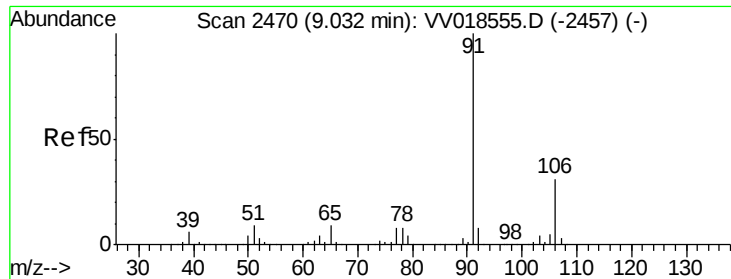
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#52

Ethylbenzene

Concen: 52.455 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampleId :

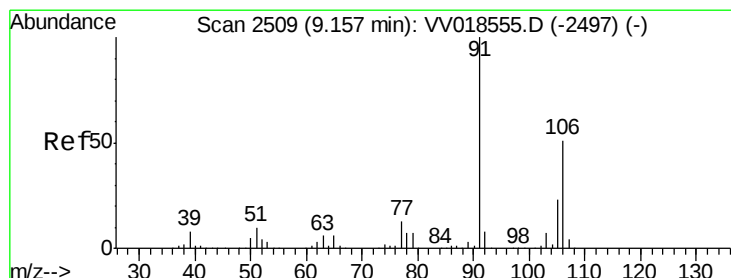
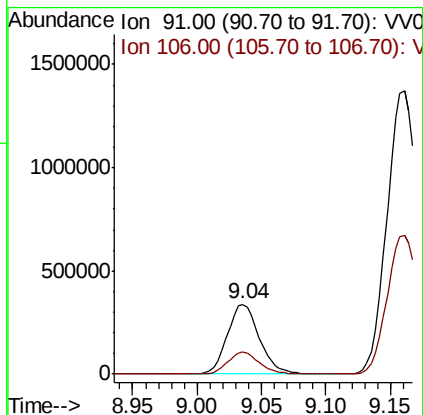
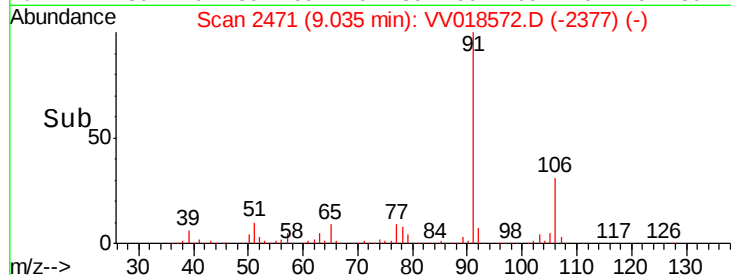
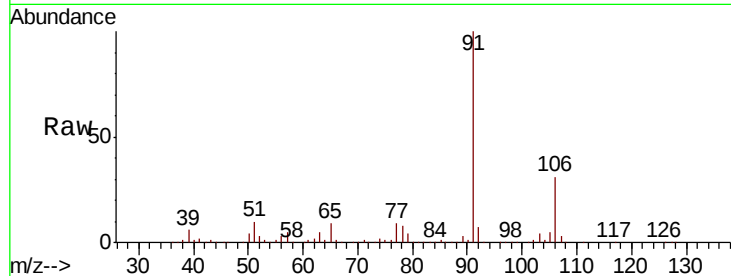
BG3Y4

Tot Ion: 91 Resp: 586502

Ion Ratio Lower Upper

91 100

106 31.4 21.9 40.7



#53

m,p-Xylene

Concen: 277.073 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV018572.D

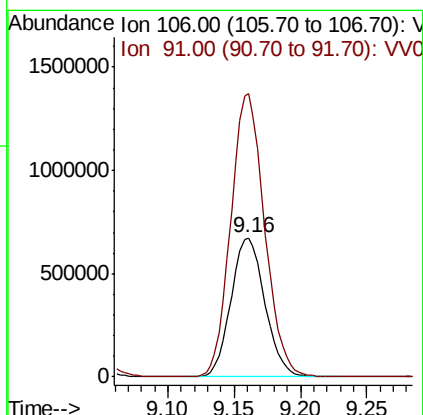
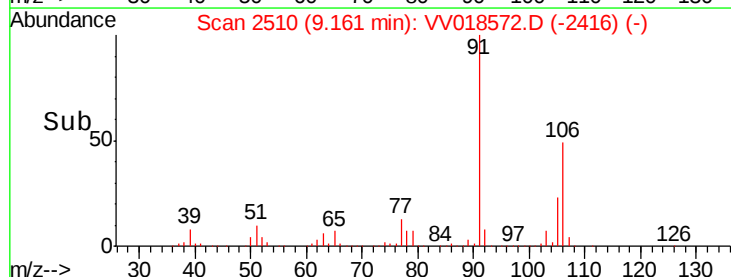
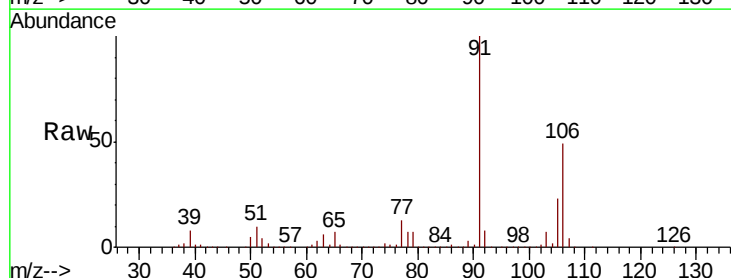
Acq: 30 Sep 2020 16:16

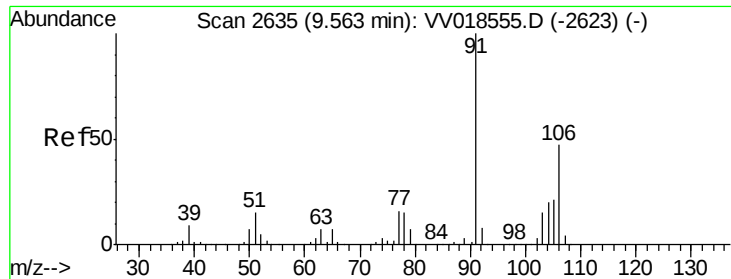
Tgt Ion: 106 Resp: 1197240

Ion Ratio Lower Upper

106 100

91 203.1 142.3 264.3





#54

o-xylene

Concen: 74.332 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampleId :

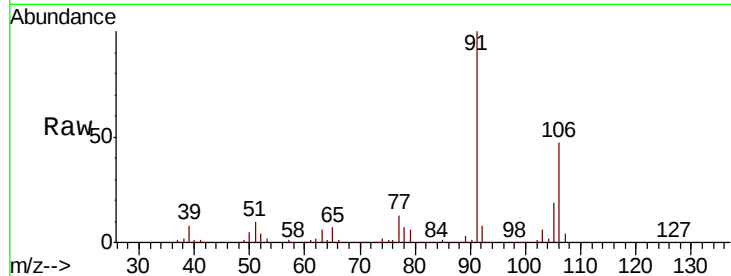
BG3Y4

Tot Ion:106 Resp: 304090

Ion Ratio Lower Upper

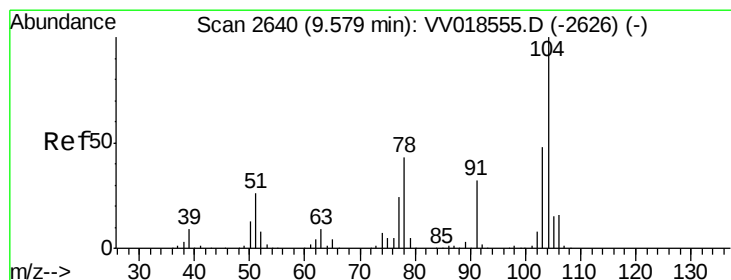
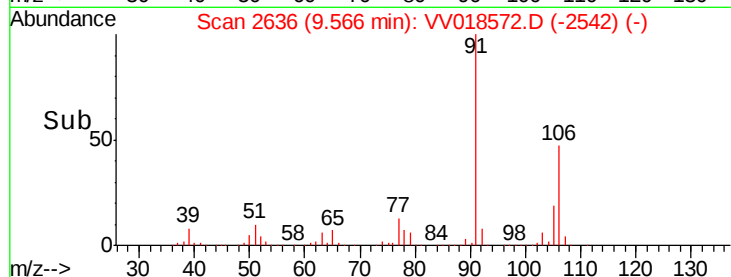
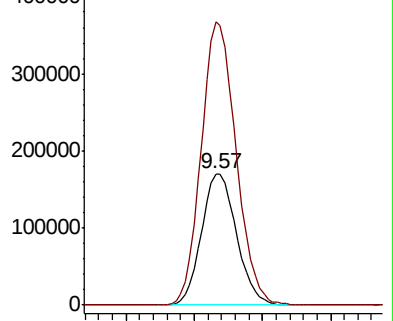
106 100

91 215.0 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 2.118 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. -0.01 min

Lab File: VV018572.D

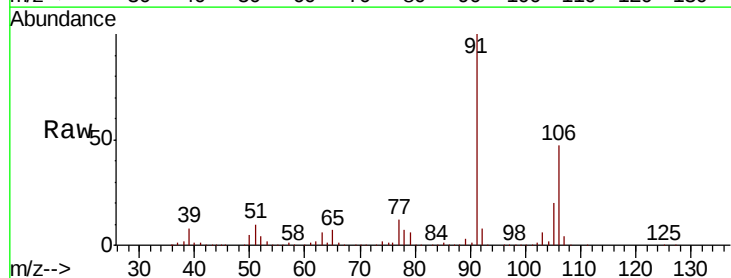
Acq: 30 Sep 2020 16:16

Tgt Ion:104 Resp: 15087

Ion Ratio Lower Upper

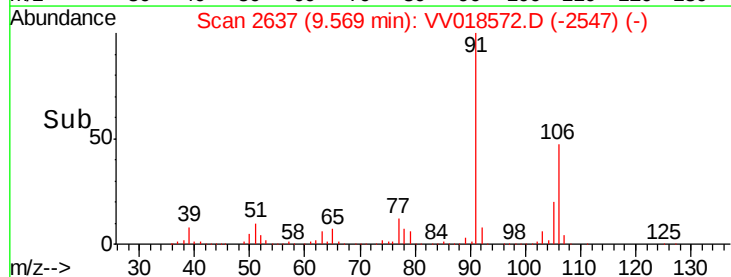
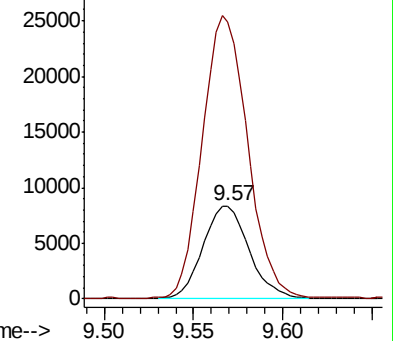
104 100

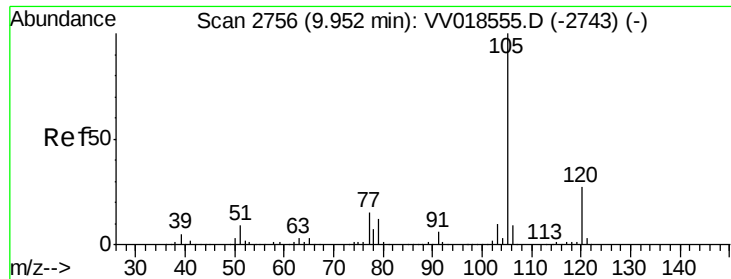
78 299.0 30.2 56.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 196.499 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampleId :

BG3Y4

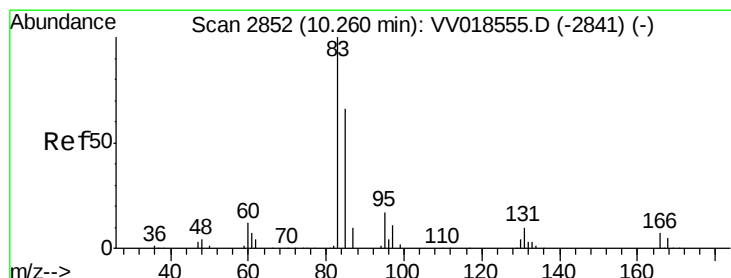
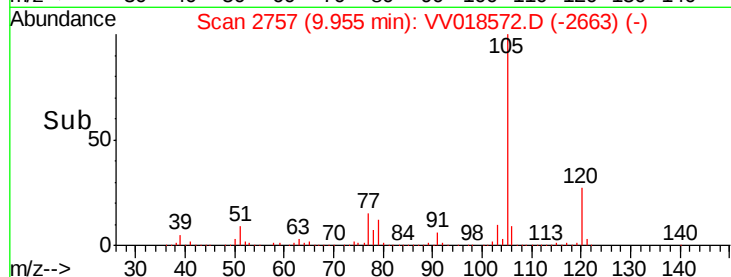
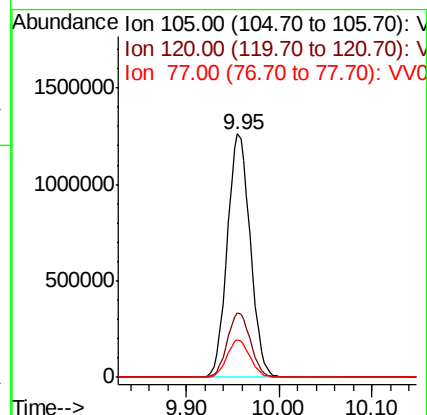
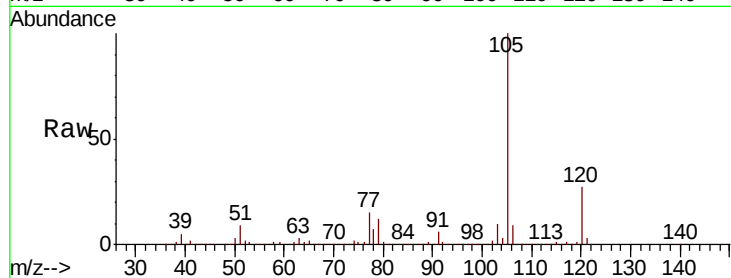
Tot Ion:105 Resp: 2155919

Ion Ratio Lower Upper

105 100

120 26.7 21.5 32.3

77 15.4 12.2 18.2



#58

1,1,2,2-Tetrachloroethane

Concen: 2.337 ug/L

RT: 10.26 min Scan# 2851

Delta R.T. -0.00 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

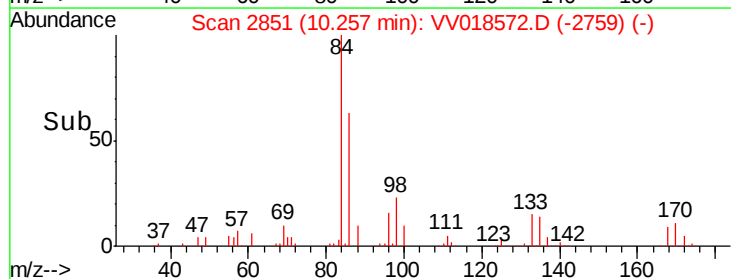
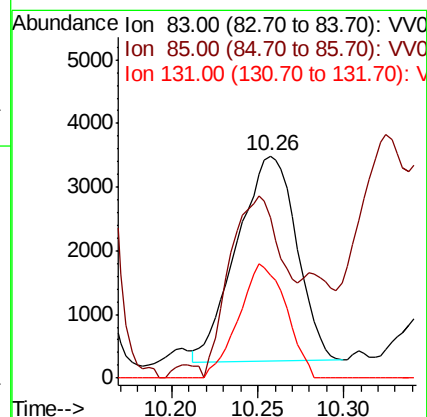
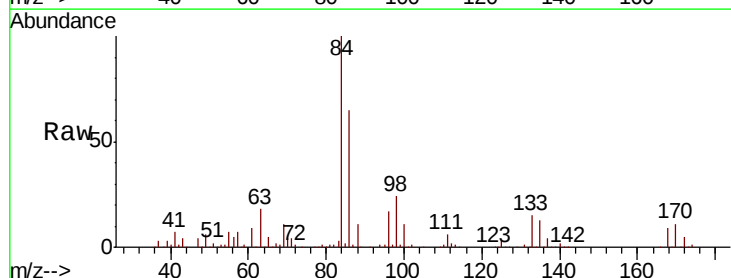
Tgt Ion: 83 Resp: 7743

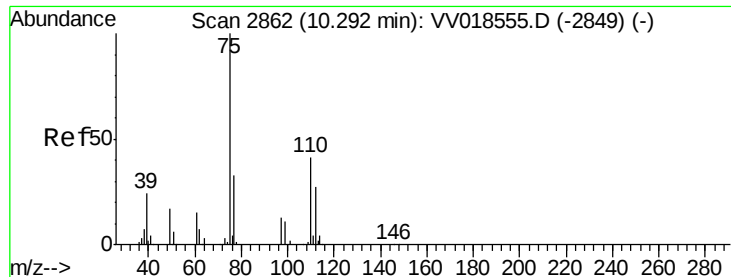
Ion Ratio Lower Upper

83 100

85 72.1 44.5 82.7

131 46.3 8.6 12.8#





#59

1,2,3-Trichloropropane

Concen: 24.923 ug/L

RT: 10.38 min Scan# 2890

Delta R.T. 0.09 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampled :

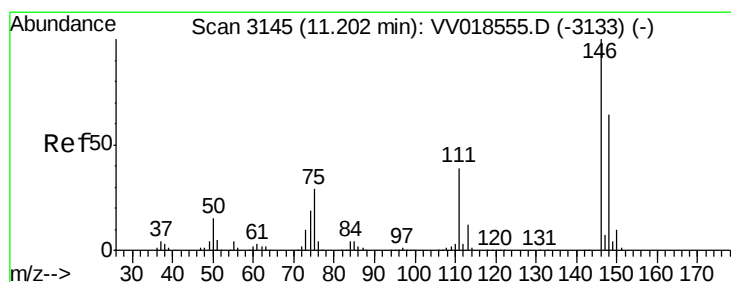
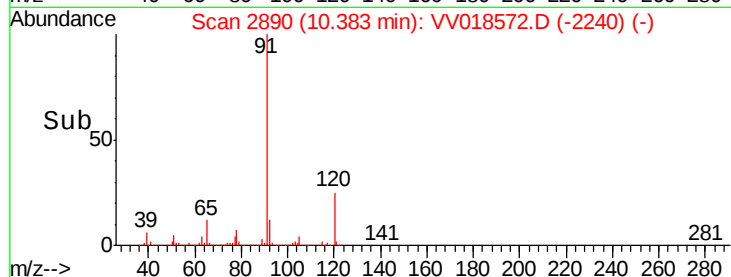
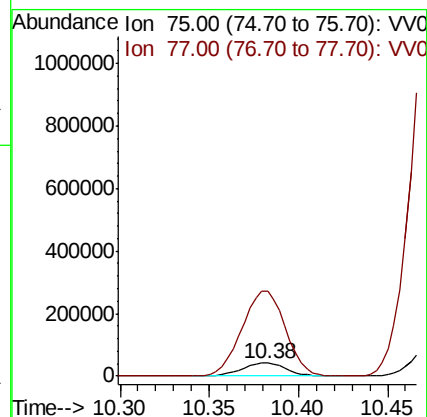
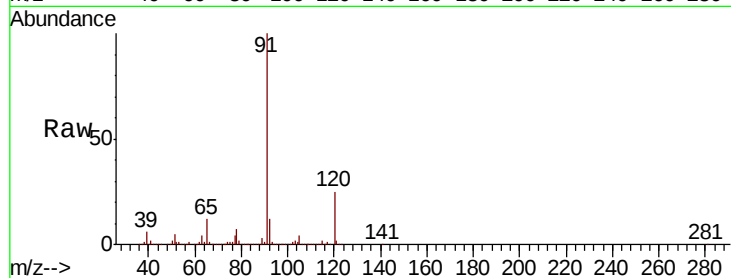
BG3Y4

Tot Ion: 75 Resp: 71984

Ion Ratio Lower Upper

75 100

77 643.1 25.4 38.0#



#62

1,3-Dichlorobenzene

Concen: 3.228 ug/L

RT: 11.21 min Scan# 3148

Delta R.T. 0.01 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

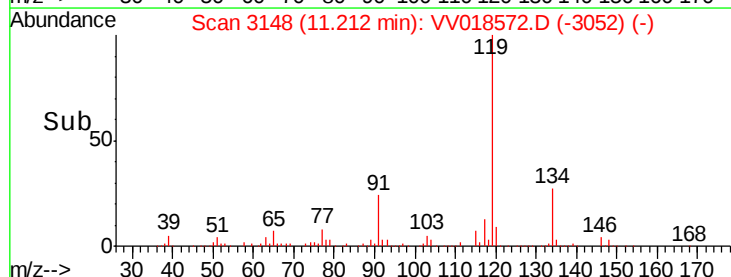
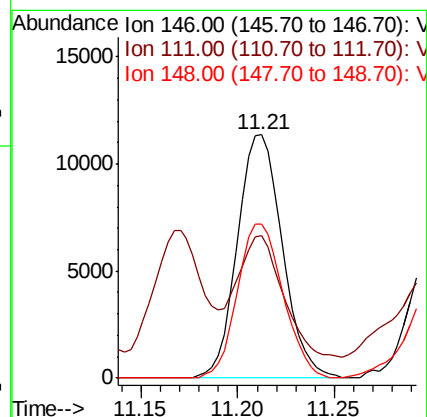
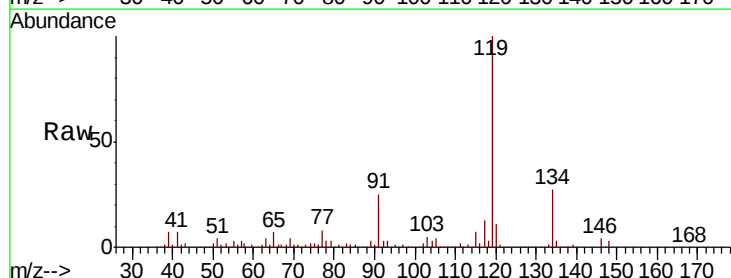
Tgt Ion: 146 Resp: 18387

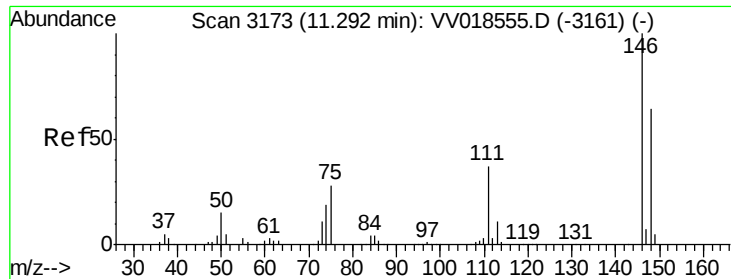
Ion Ratio Lower Upper

146 100

111 58.7 26.8 49.8#

148 63.1 44.0 81.8





#63

1,4-Dichlorobenzene

Concen: 1.890 ug/L

RT: 11.30 min Scan# 3176

Delta R.T. 0.01 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampleId :

BG3Y4

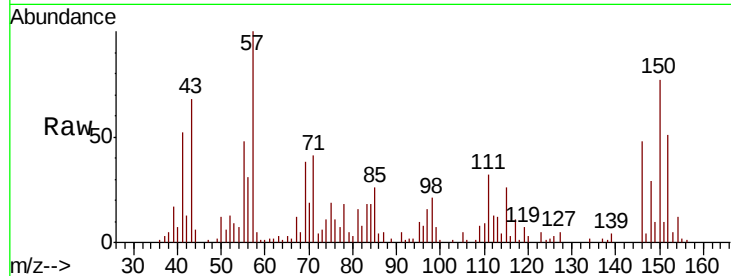
Tot Ion:146 Resp: 11087

Ion Ratio Lower Upper

146 100

111 66.8 26.2 48.6#

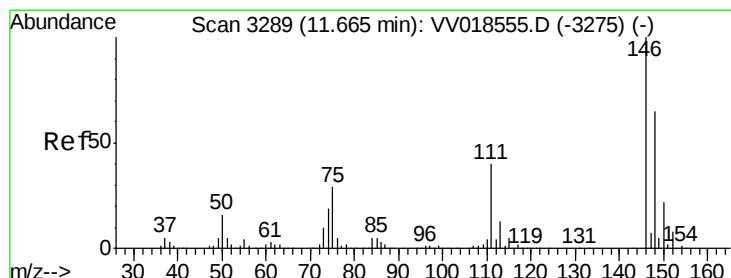
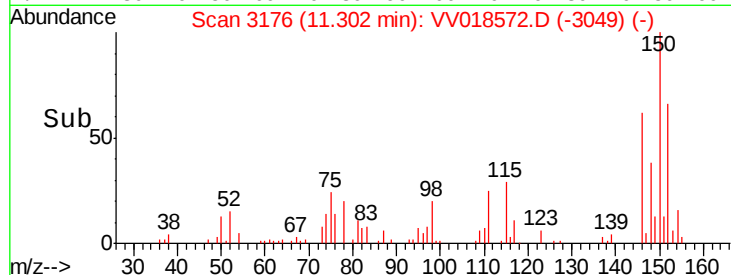
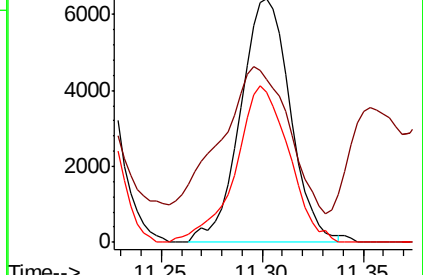
148 61.6 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 12.131 ug/L

RT: 11.67 min Scan# 3291

Delta R.T. 0.01 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

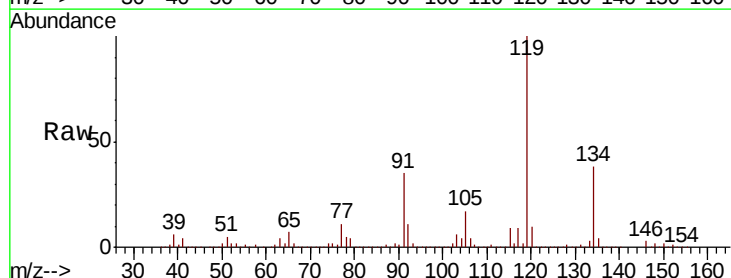
Tgt Ion:146 Resp: 68361

Ion Ratio Lower Upper

146 100

111 47.2 32.8 49.2

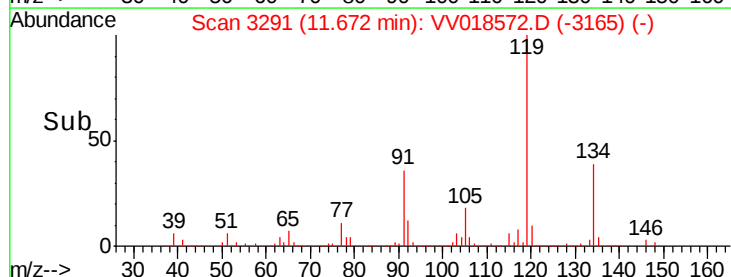
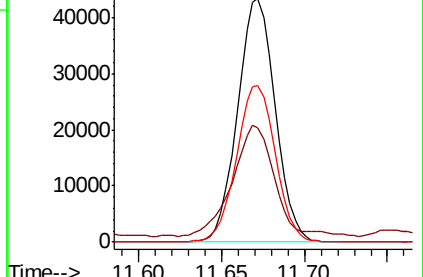
148 64.3 51.9 77.9

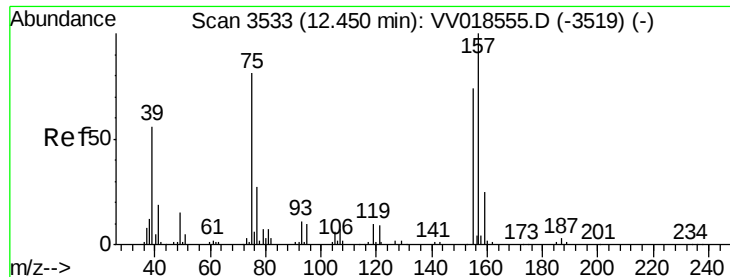


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dibromo-3-chloropropane

Concen: 22.984 ug/L

RT: 12.44 min Scan# 3529

Delta R.T. -0.01 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Instrument :

MSVOA_V

ClientSampleId :

BG3Y4

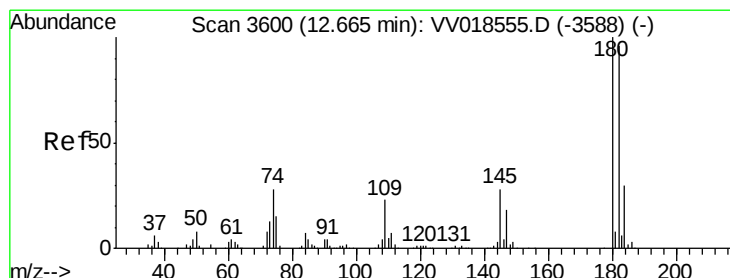
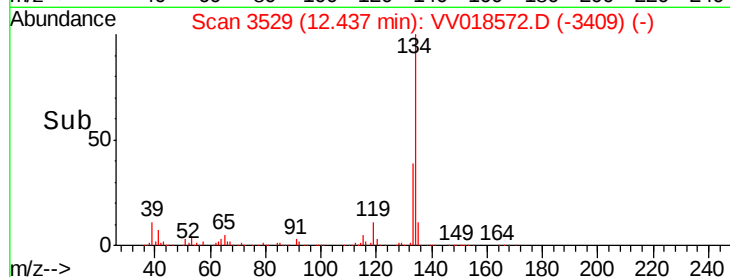
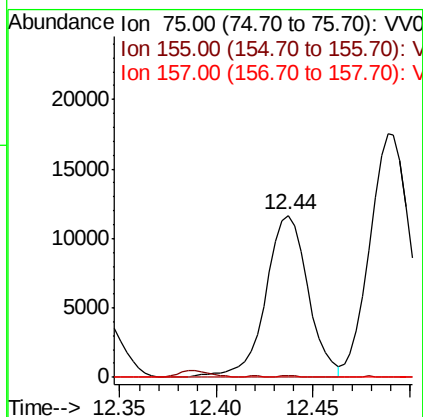
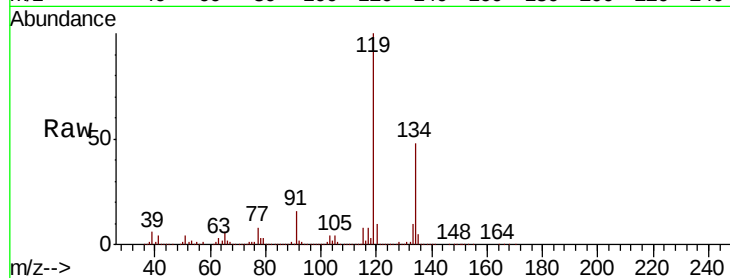
Tot Ion: 75 Resp: 17681

Ion Ratio Lower Upper

75 100

155 1.3 73.0 109.6#

157 0.0 95.8 143.6#



#67

1,3,5-Trichlorobenzene

Concen: 189.446 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.62 min

Lab File: VV018572.D

Acq: 30 Sep 2020 16:16

Tgt Ion: 180 Resp: 747509

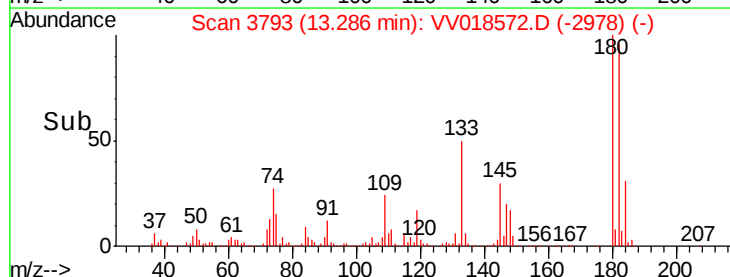
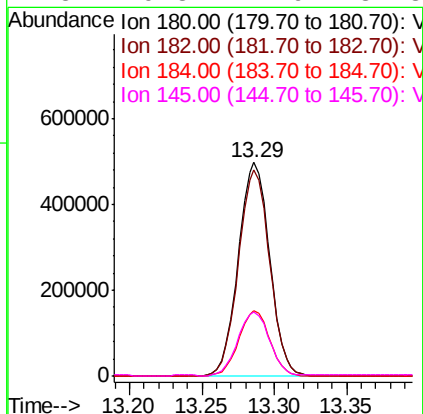
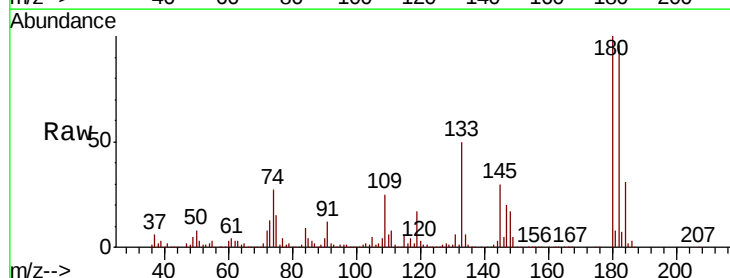
Ion Ratio Lower Upper

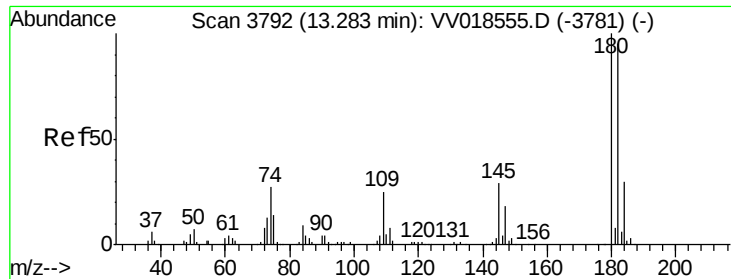
180 100

182 96.0 77.1 115.7

184 30.4 24.3 36.5

145 29.8 22.9 34.3

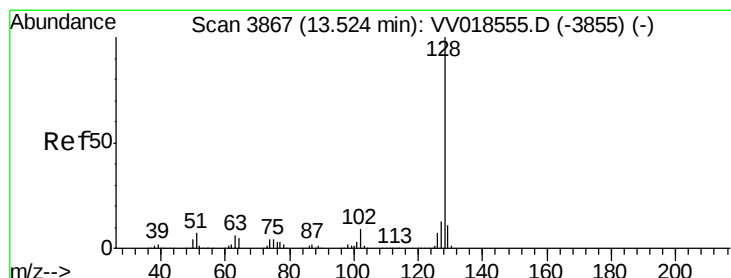
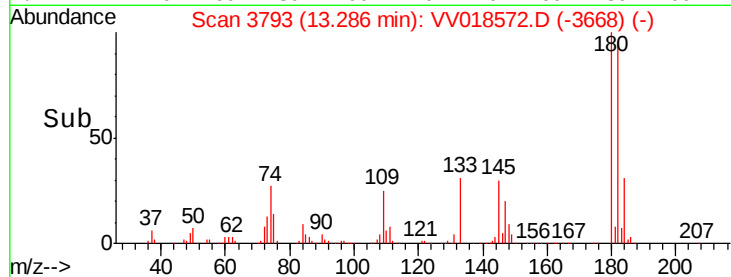
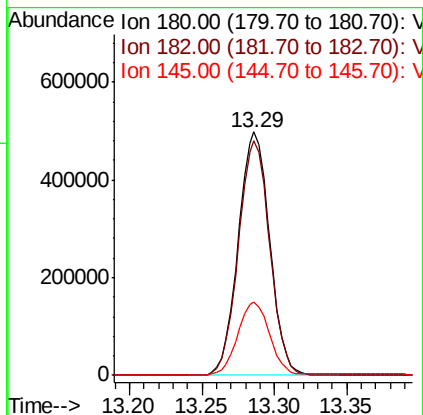
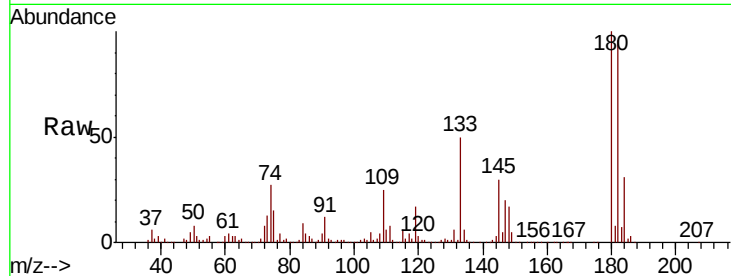




#68
1,2,4-trichlorobenzene
Concen: 203.588 ug/L
RT: 13.29 min Scan# 3793
Delta R.T. 0.00 min
Lab File: VV018572.D
Acq: 30 Sep 2020 16:16

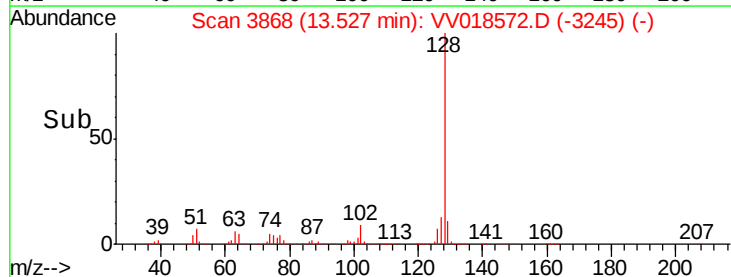
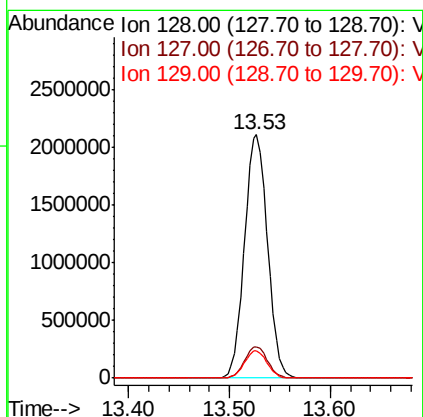
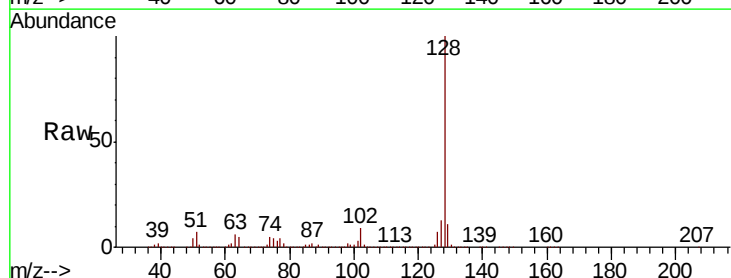
Instrument :
MSVOA_V
ClientSampleId :
BG3Y4

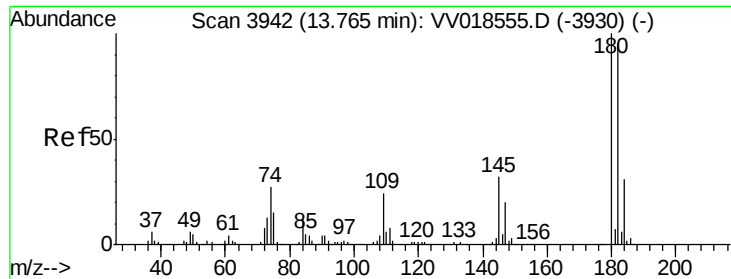
Tot Ion:180 Resp: 747509
Ion Ratio Lower Upper
180 100
182 96.0 76.3 114.5
145 29.8 23.6 35.4



#69
Naphthalene
Concen: 313.229 ug/L
RT: 13.53 min Scan# 3868
Delta R.T. 0.00 min
Lab File: VV018572.D
Acq: 30 Sep 2020 16:16

Tgt Ion:128 Resp: 3292151
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 11.1 8.6 12.8

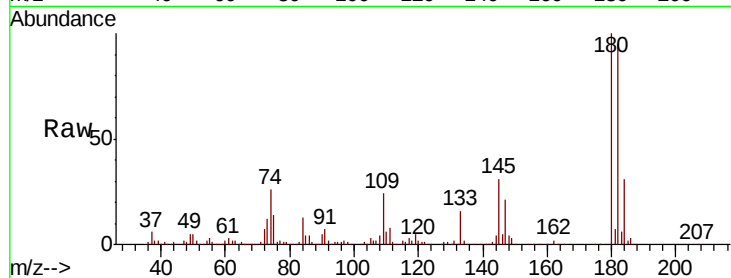




#70
 1,2,3-Trichlorobenzene
 Concen: 62.905 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV018572.D
 Acq: 30 Sep 2020 16:16

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Y4

Tot Ion	Ion	Ratio	Lower	Upper
231858	180	100		
	182	95.3	77.1	115.7
	145	35.7	25.1	37.7



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

