

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092920\
 Data File : VV018523.D
 Acq On : 29 Sep 2020 17:53
 Operator : SY/MD
 Sample : L4109-18
 Misc : 5.92g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Y9

Quant Time: Sep 30 01:52:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 30 01:47:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	461098	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	451129	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.28	152	242845	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	164691	60.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	121.80%
7) Chloroethane-d5	1.58	69	109160	48.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.64%
11) 1,1-Dichloroethene-d2	2.10	63	231971	42.10	ug/L	-0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.20%
21) 2-Butanone-d5	3.92	46	215365	106.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.77%
24) Chloroform-d	4.37	84	349157	59.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	119.42%
26) 1,2-Dichloroethane-d4	5.05	65	240478	64.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	129.56%#
32) Benzene-d6	5.07	84	728885	63.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	127.58%#
36) 1,2-Dichloropropane-d6	6.09	67	226462	65.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	131.18%#
41) Toluene-d8	7.34	98	694125	64.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	129.14%#
43) trans-1,3-Dichloropropene-	7.64	79	122889	65.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	131.78%#
47) 2-Hexanone-d5	8.14	63	192490	146.78	ug/L	0.03
Spiked Amount	100.000	Range	45 - 130	Recovery	=	146.78%#
57) 1,1,2,2-Tetrachloroethane-	10.25	84	304046	66.42	ug/L	0.01
Spiked Amount	50.000	Range	65 - 120	Recovery	=	132.84%#
64) 1,2-Dichlorobenzene-d4	11.65	152	306999	65.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	131.46%#

Target Compounds

					Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.10	101	2260	0.753 ug/L #	22
27) 1,2-Dichloroethane	5.07	62	4530	0.954 ug/L	100
29) Cyclohexane	4.69	56	27762	5.396 ug/L	97
30) 1,1,1-Trichloroethane	4.63	97	4875	0.870 ug/L	92
35) Methylcyclohexane	6.09	83	58869	11.342 ug/L #	19
39) cis-1,3-Dichloropropene	7.01	75	7369	1.381 ug/L #	71
42) Toluene	7.41	91	185448	12.934 ug/L	99
44) trans-1,3-Dichloropropene	7.64	75	5829	1.112 ug/L #	78
48) 2-Hexanone	8.10	43	12442	3.634 ug/L #	35
52) Ethylbenzene	9.04	91	228855	14.293 ug/L	100
53) m,p-Xylene	9.16	106	394291	63.719 ug/L	98
54) o-xylene	9.57	106	145093	24.766 ug/L	98
55) Styrene	9.57	104	7351	0.721 ug/L #	1
56) Isopropylbenzene	9.95	105	583279	37.123 ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	5951	1.254 ug/L #	81
59) 1,2,3-Trichloropropane	11.30	75	74946	18.120 ug/L	92
62) 1,3-Dichlorobenzene	11.21	146	65502	8.334 ug/L	91

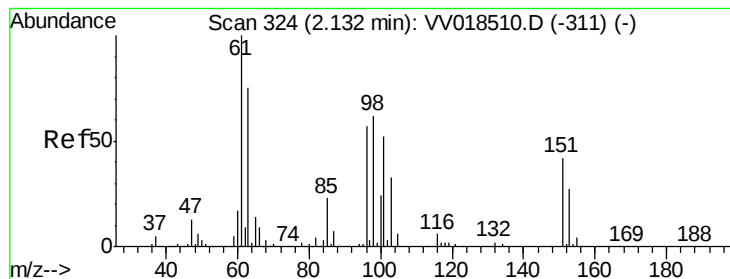
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV092920\
 Data File : VV018523.D
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 30 01:47:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.30	146	163383	20.188	ug/L	97
65) 1,2-Dichlorobenzene	11.67	146	116530	14.988	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.43	75	13888	13.085	ug/L #	1
67) 1,3,5-Trichlorobenzene	12.67	180	10115	1.858	ug/L	95
68) 1,2,4-trichlorobenzene	13.29	180	2985543	589.346	ug/L	99
69) Naphthalene	13.53	128	1778617	122.652	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	987876	194.256	ug/L	99

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



#10

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

Concen: 0.753 ug/L

RT: 2.10 min Scan# 314

Delta R.T. -0.03 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampleId :

BG3Y9

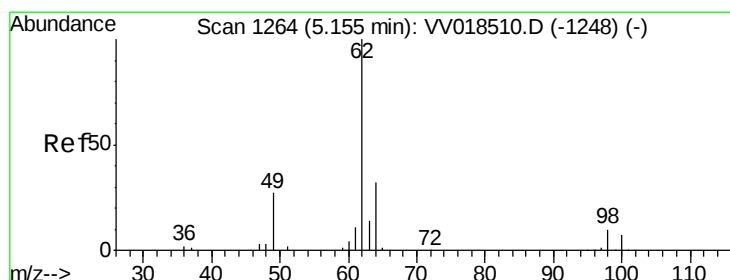
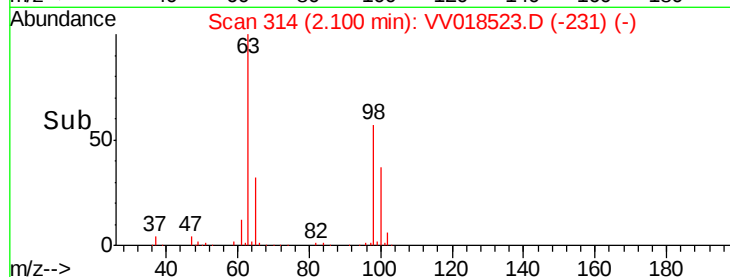
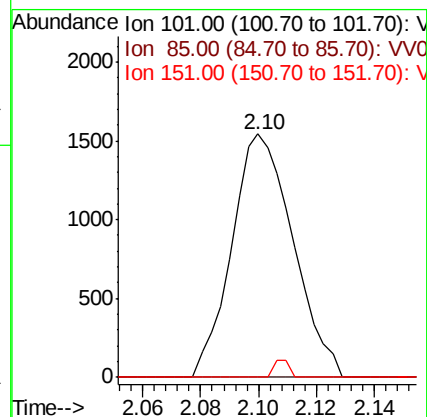
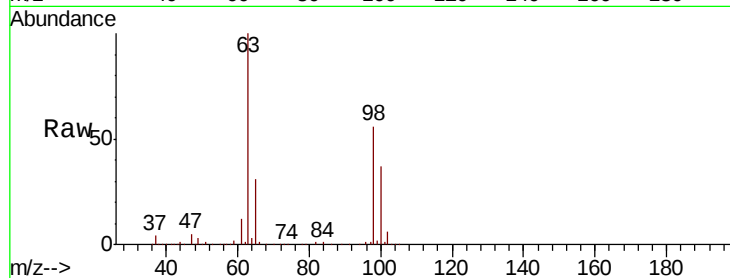
Tot Ion:101 Resp: 2260

Ion Ratio Lower Upper

101 100

85 6.1 34.6 52.0#

151 1.9 64.3 96.5#



#27

1,2-Dichloroethane

Concen: 0.954 ug/L

RT: 5.07 min Scan# 1237

Delta R.T. -0.09 min

Lab File: VV018523.D

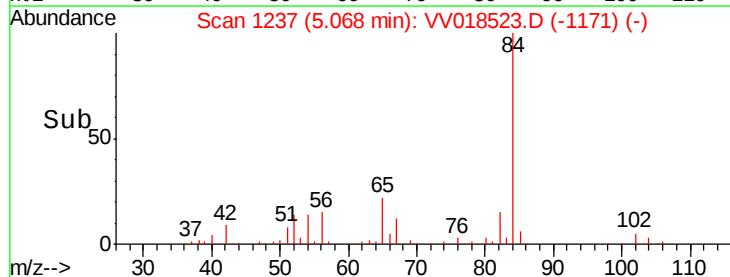
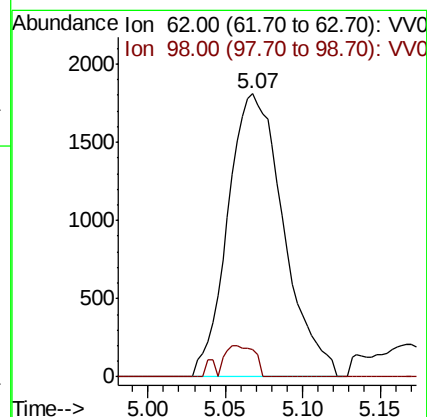
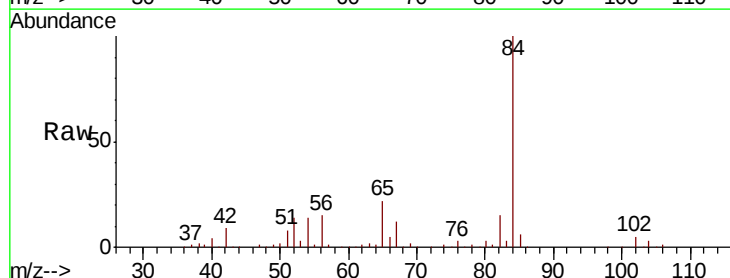
Acq: 29 Sep 2020 17:53

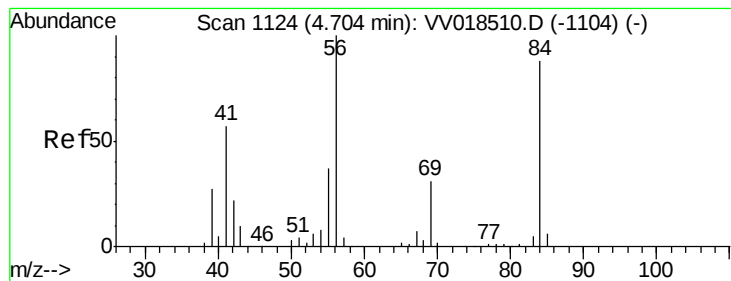
Tgt Ion: 62 Resp: 4530

Ion Ratio Lower Upper

62 100

98 9.8 7.7 11.5





#29

Cyclohexane

Concen: 5.396 ug/L

RT: 4.69 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampleId :

BG3Y9

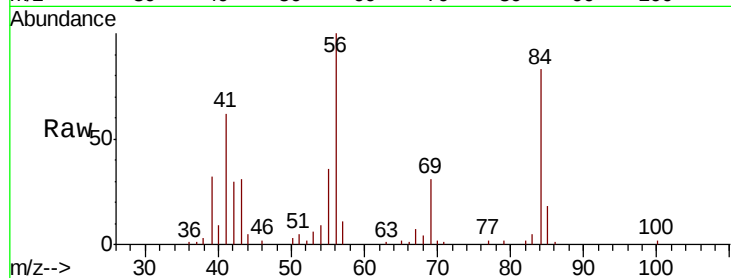
Tot Ion: 56 Resp: 27762

Ion Ratio Lower Upper

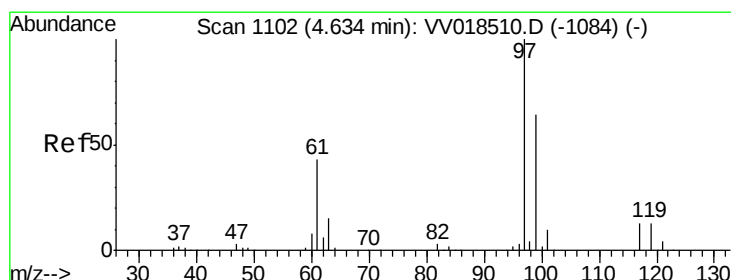
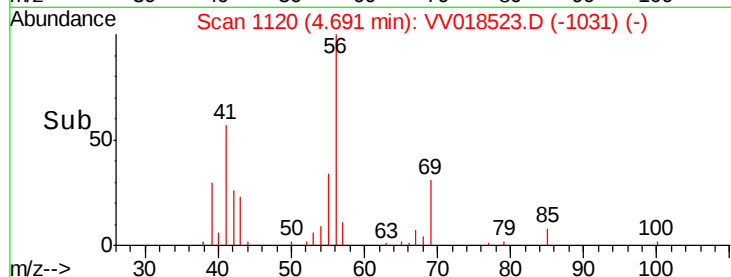
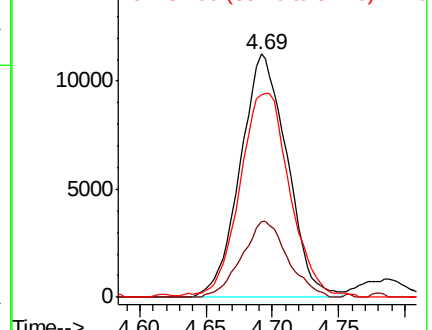
56 100

69 30.5 24.8 37.2

84 86.3 72.2 108.4



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 0.870 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

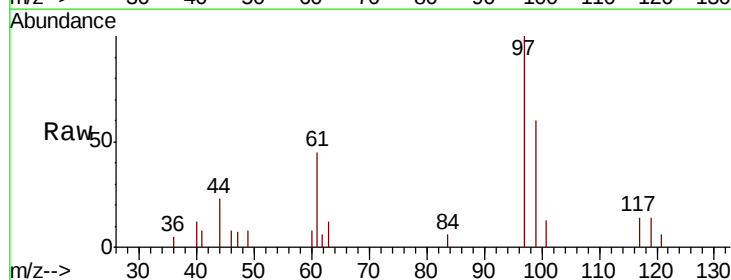
Tgt Ion: 97 Resp: 4875

Ion Ratio Lower Upper

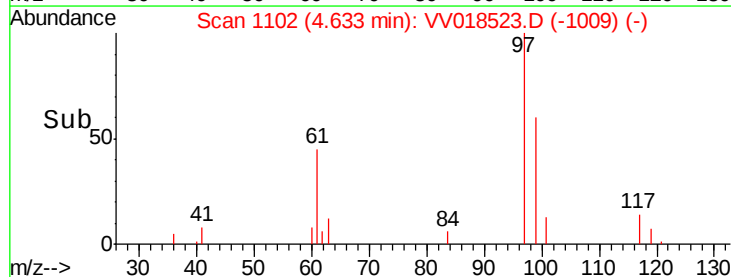
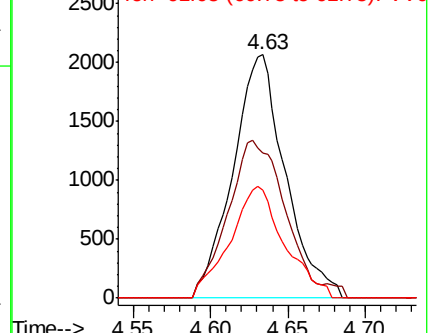
97 100

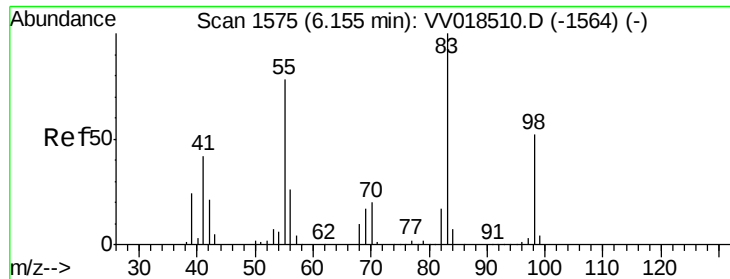
99 70.3 51.4 77.0

61 47.3 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0

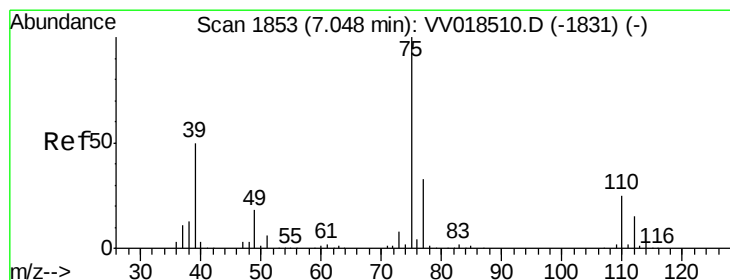
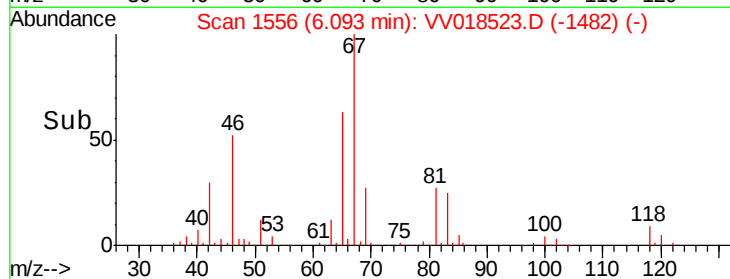
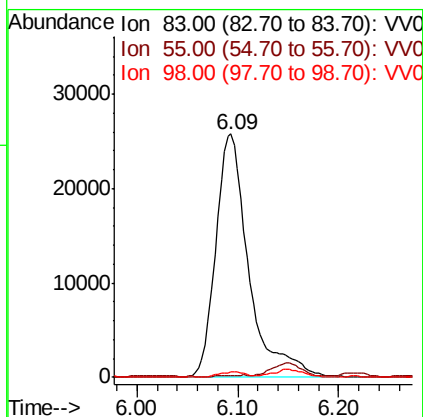
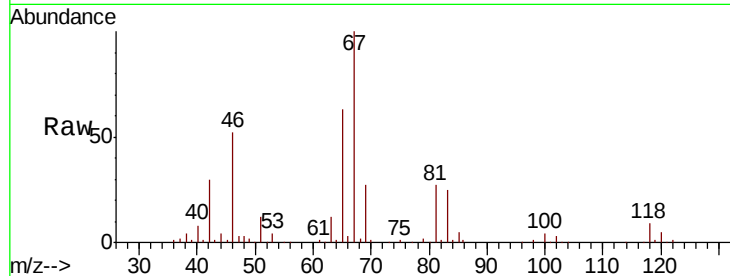




#35
Methylcyclohexane
Concen: 11.342 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.06 min
Lab File: VV018523.D
Acq: 29 Sep 2020 17:53

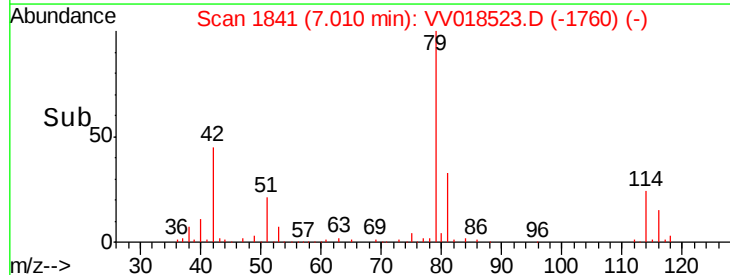
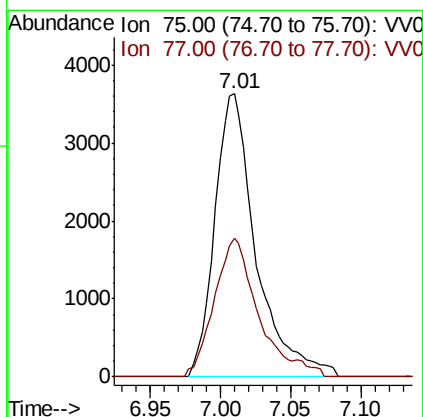
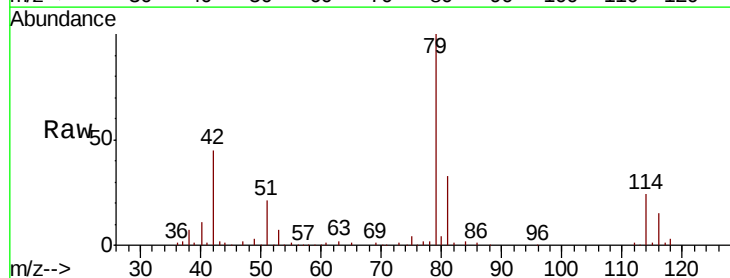
Instrument :
MSVOA_V
ClientSampleId :
BG3Y9

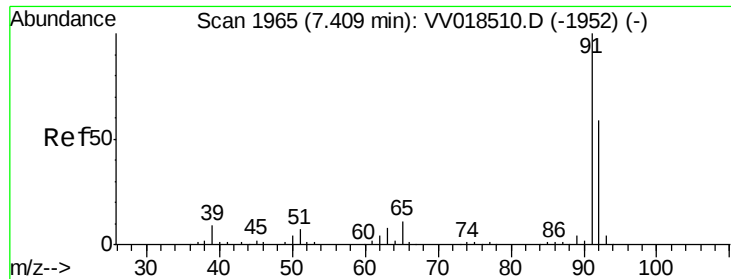
Tot Ion: 83 Resp: 58869
Ion Ratio Lower Upper
83 100
55 0.2 60.1 90.1#
98 1.8 40.2 60.4#



#39
cis-1,3-Dichloropropene
Concen: 1.381 ug/L
RT: 7.01 min Scan# 1841
Delta R.T. -0.04 min
Lab File: VV018523.D
Acq: 29 Sep 2020 17:53

Tgt Ion: 75 Resp: 7369
Ion Ratio Lower Upper
75 100
77 49.1 23.0 42.6#





#42

Toluene

Concen: 12.934 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampleId :

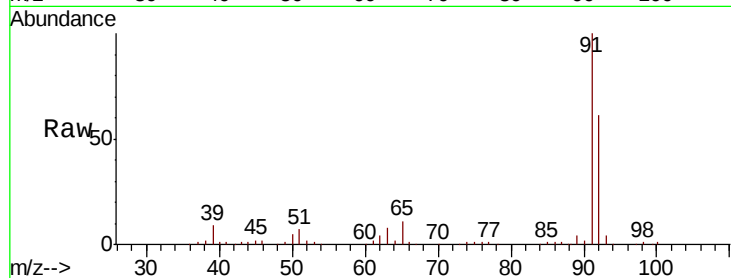
BG3Y9

Tot Ion: 91 Resp: 185448

Ion Ratio Lower Upper

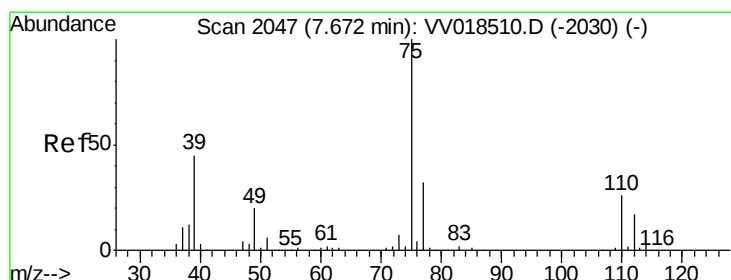
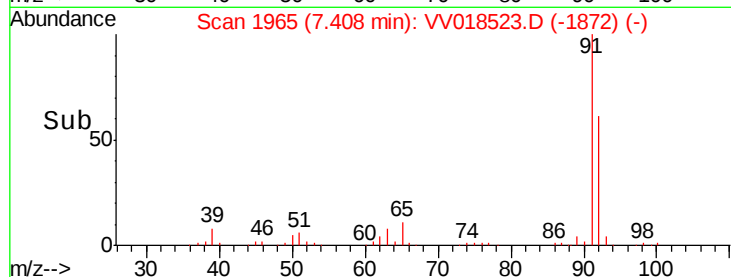
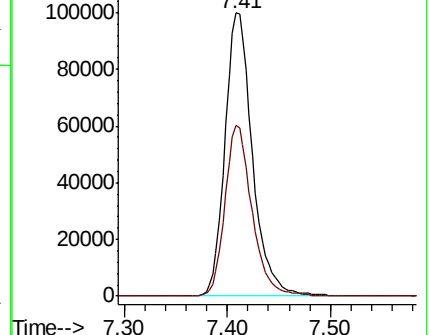
91 100

92 60.5 41.6 77.3



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 1.112 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV018523.D

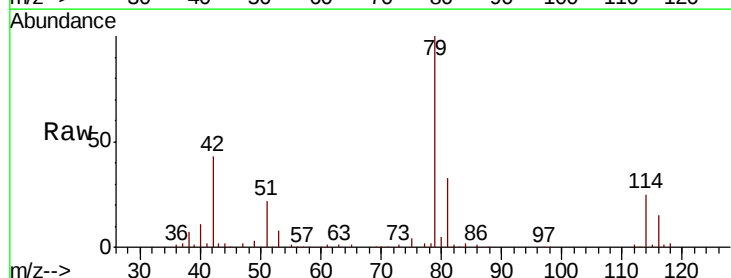
Acq: 29 Sep 2020 17:53

Tgt Ion: 75 Resp: 5829

Ion Ratio Lower Upper

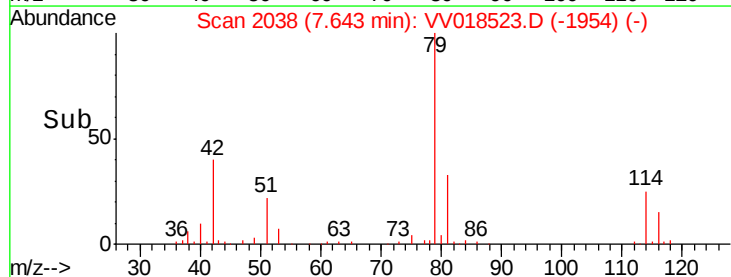
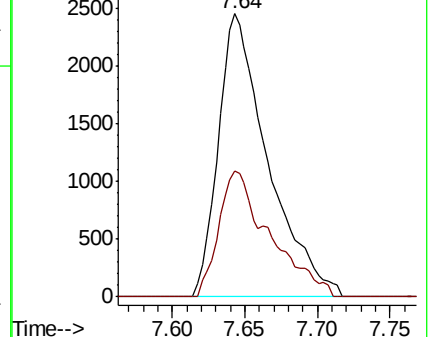
75 100

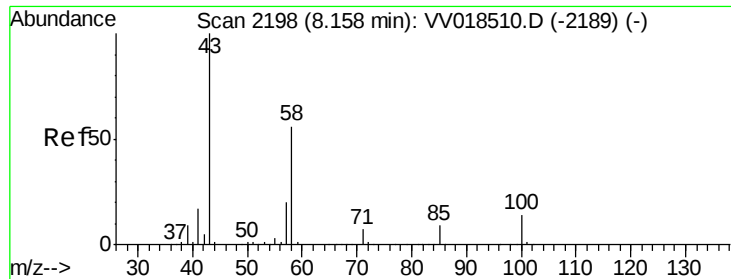
77 44.5 22.7 42.1#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

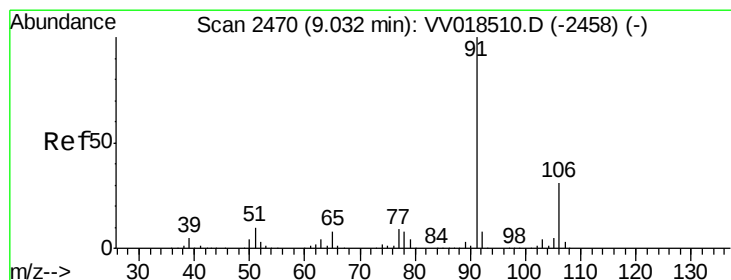
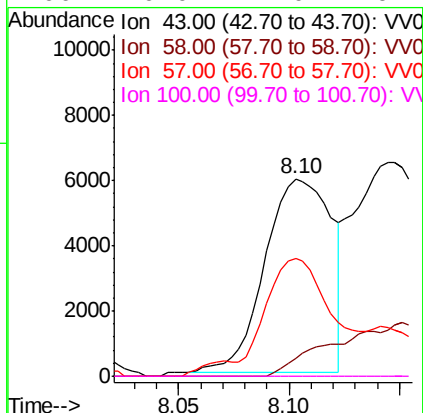
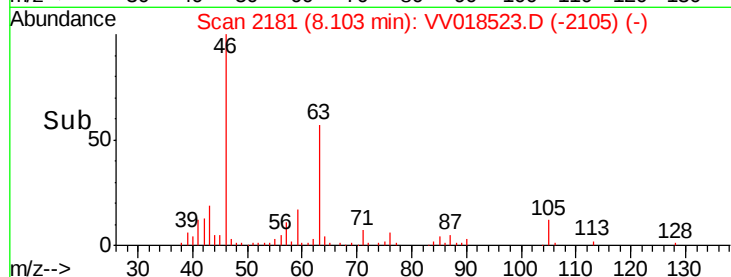
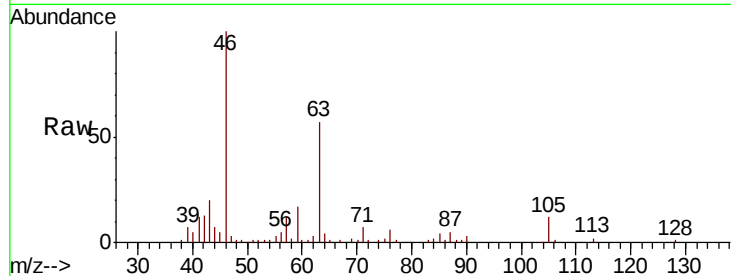




#48
2-Hexanone
Concen: 3.634 ug/L
RT: 8.10 min Scan# 2181
Delta R.T. -0.05 min
Lab File: VV018523.D
Acq: 29 Sep 2020 17:53

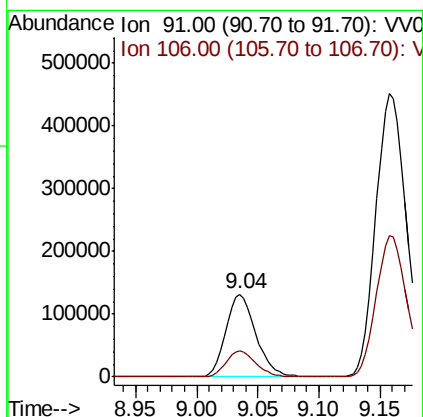
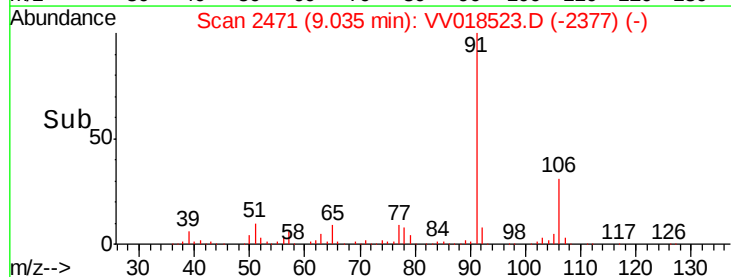
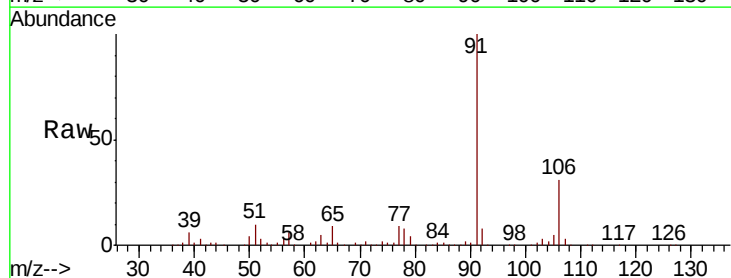
Instrument :
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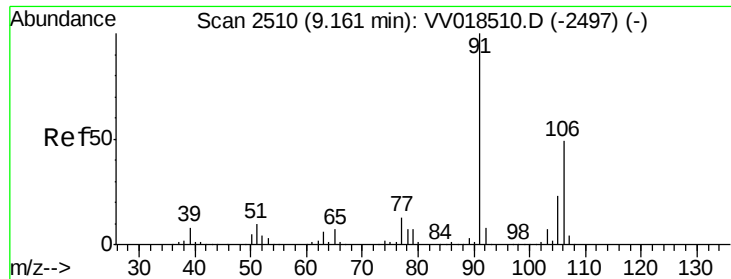
Tot Ion: 43 Resp: 12442
Ion Ratio Lower Upper
43 100
58 2.8 45.1 67.7#
57 48.8 15.7 23.5#
100 0.0 11.0 16.4#



#52
Ethylbenzene
Concen: 14.293 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV018523.D
Acq: 29 Sep 2020 17:53

Tgt Ion: 91 Resp: 228855
Ion Ratio Lower Upper
91 100
106 31.4 21.9 40.7





#53

m,p-Xylene

Concen: 63.719 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampleId :

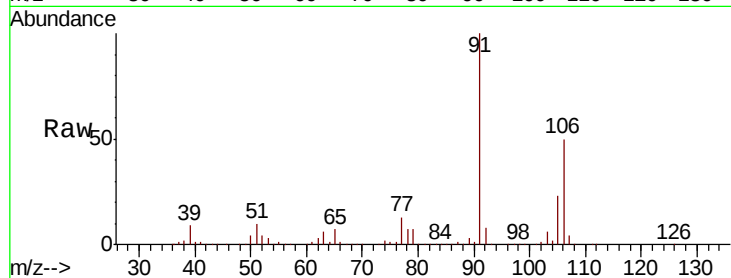
BG3Y9

Tot Ion:106 Resp: 394291

Ion Ratio Lower Upper

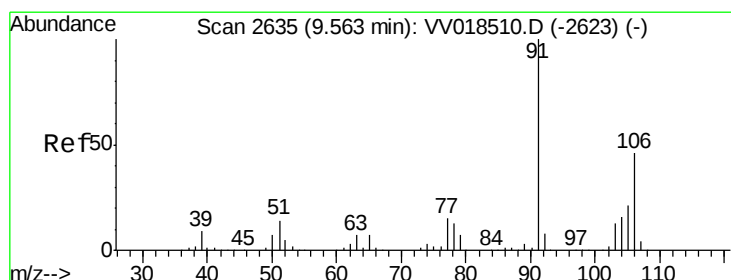
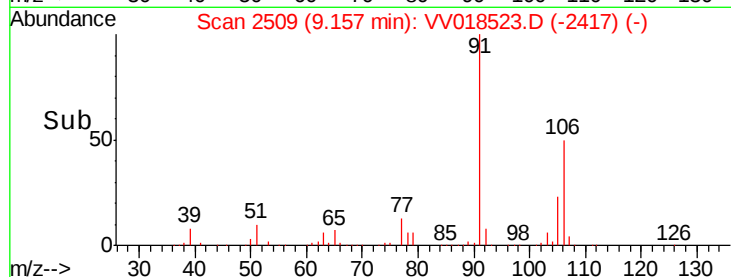
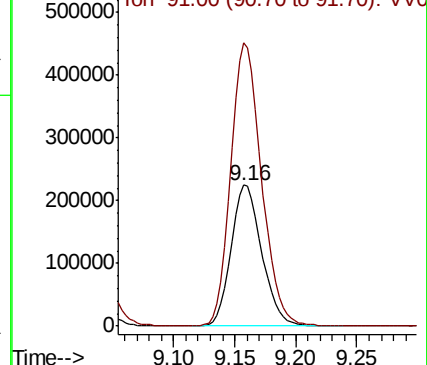
106 100

91 200.6 142.3 264.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 24.766 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV018523.D

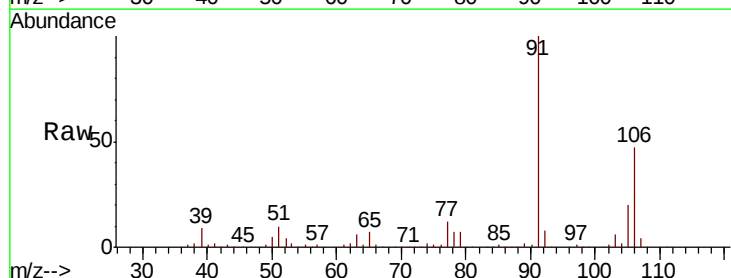
Acq: 29 Sep 2020 17:53

Tgt Ion:106 Resp: 145093

Ion Ratio Lower Upper

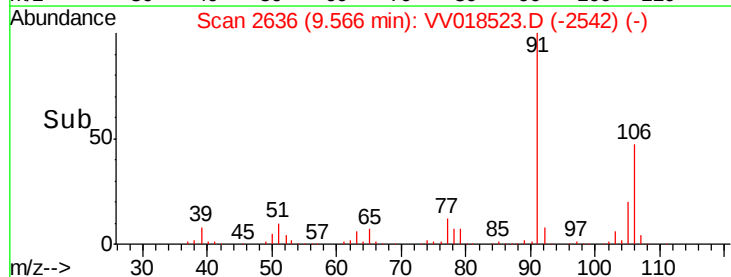
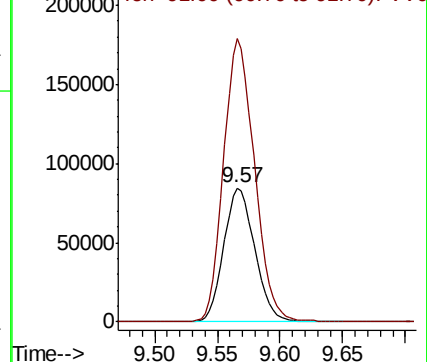
106 100

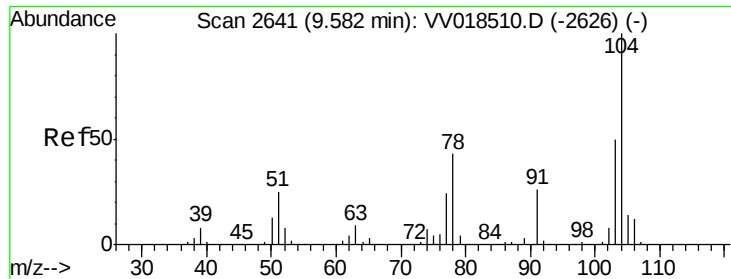
91 211.8 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 0.721 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.02 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampled :

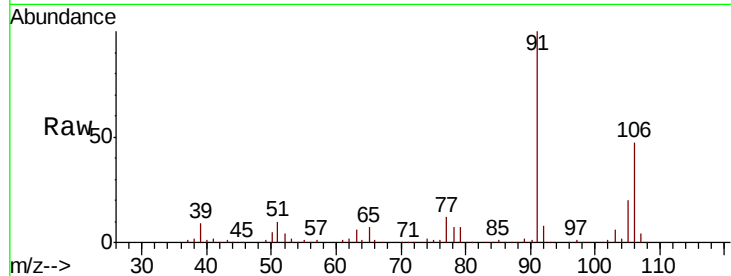
BG3Y9

Tot Ion:104 Resp: 7351

Ion Ratio Lower Upper

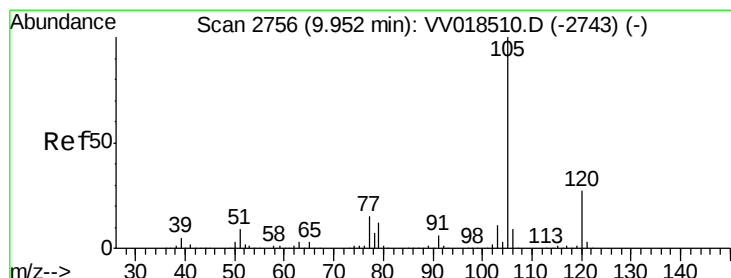
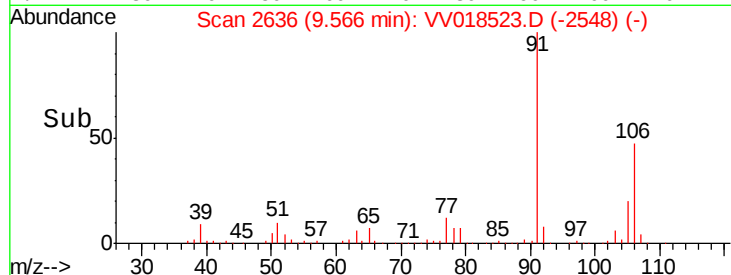
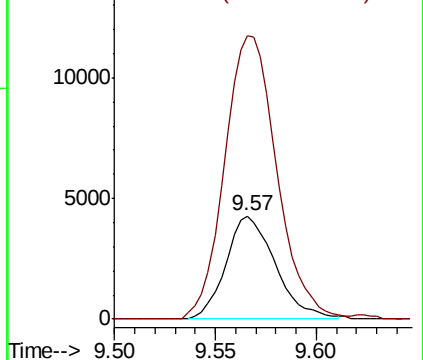
104 100

78 274.6 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: 37.123 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

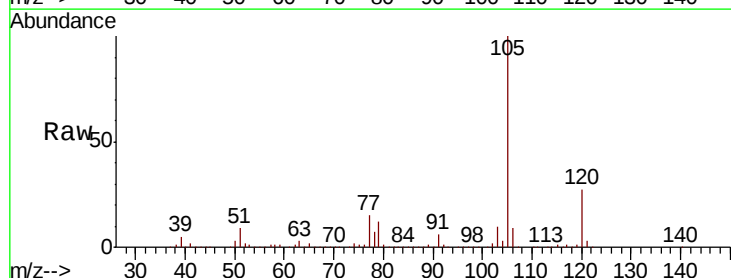
Tgt Ion:105 Resp: 583279

Ion Ratio Lower Upper

105 100

120 26.7 21.5 32.3

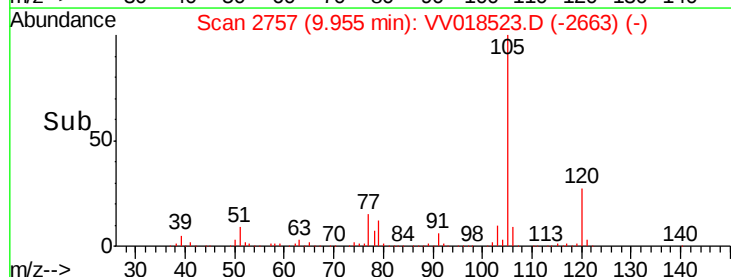
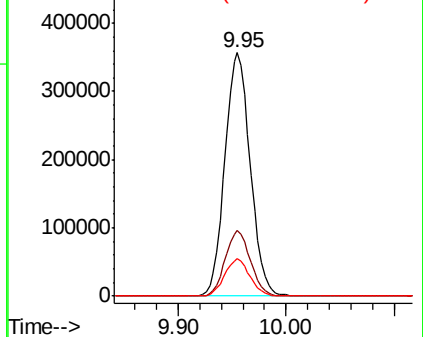
77 15.4 12.2 18.2

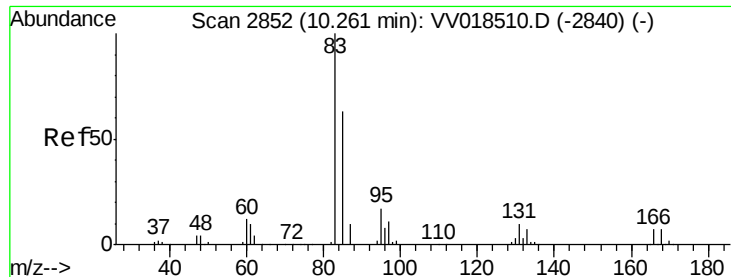


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 1.254 ug/L

RT: 10.26 min Scan# 2851

Delta R.T. -0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampleId :

BG3Y9

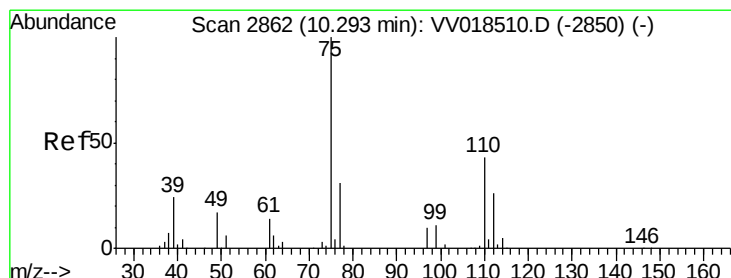
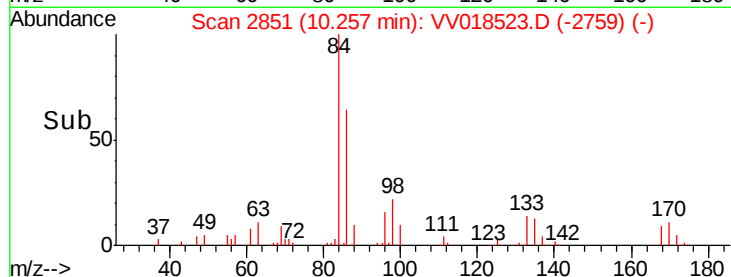
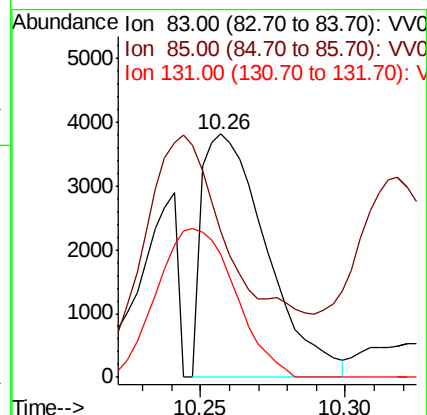
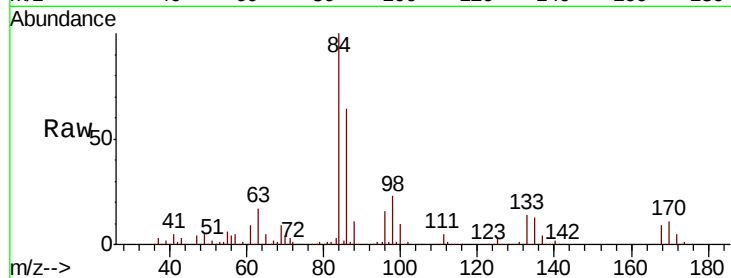
Tot Ion: 83 Resp: 5951

Ion Ratio Lower Upper

83 100

85 60.3 44.5 82.7

131 50.6 8.6 12.8#



#59

1,2,3-Trichloropropane

Concen: 18.120 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 1.01 min

Lab File: VV018523.D

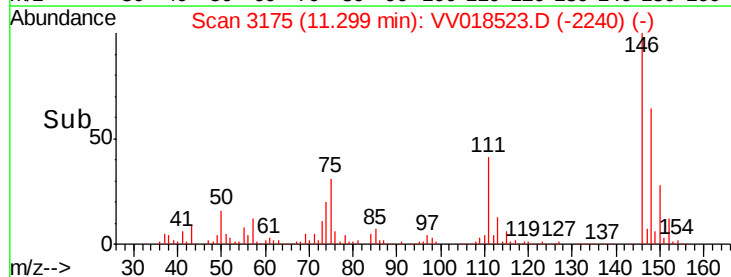
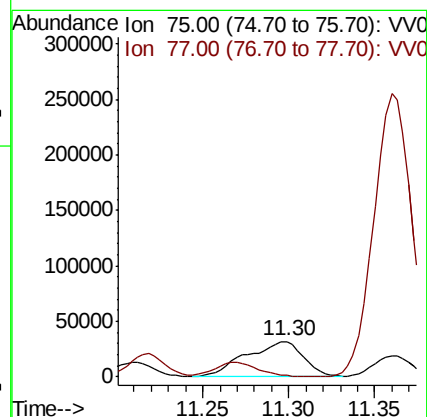
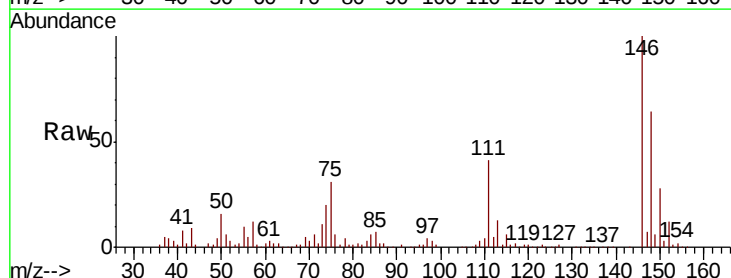
Acq: 29 Sep 2020 17:53

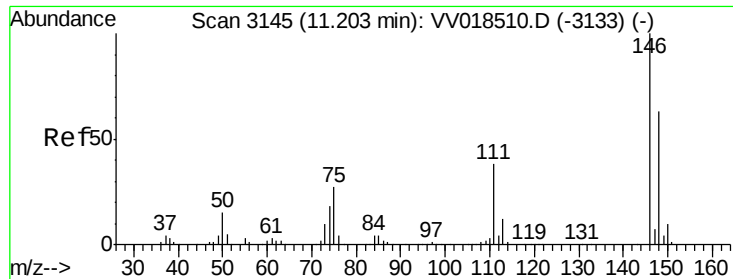
Tgt Ion: 75 Resp: 74946

Ion Ratio Lower Upper

75 100

77 27.1 25.4 38.0





#62

1,3-Dichlorobenzene

Concen: 8.334 ug/L

RT: 11.21 min Scan# 3147

Delta R.T. 0.01 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampled :

BG3Y9

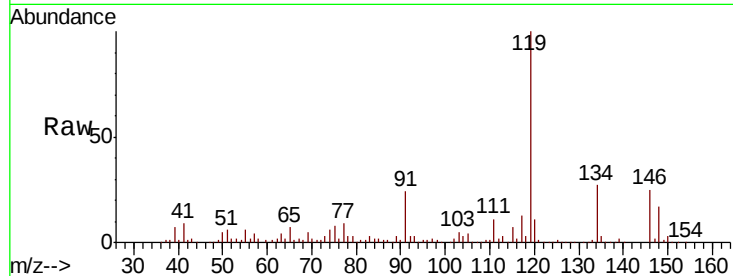
Tot Ion:146 Resp: 65502

Ion Ratio Lower Upper

146 100

111 46.5 26.8 49.8

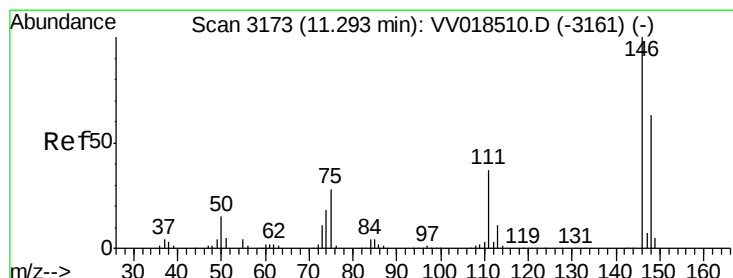
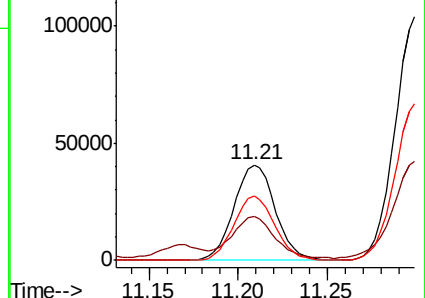
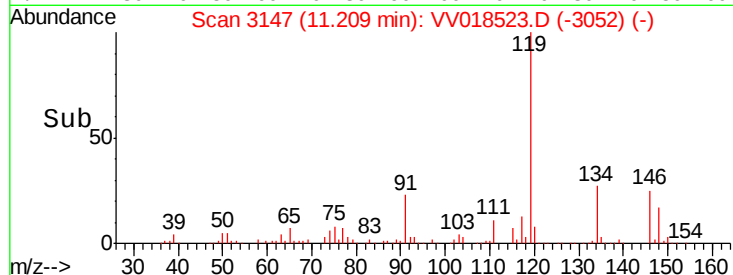
148 67.9 44.0 81.8



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



#63

1,4-Dichlorobenzene

Concen: 20.188 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.01 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

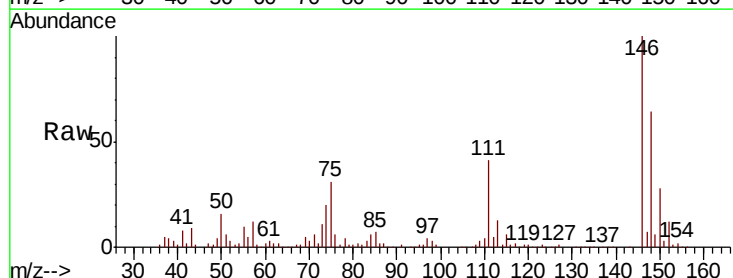
Tgt Ion:146 Resp: 163383

Ion Ratio Lower Upper

146 100

111 40.5 26.2 48.6

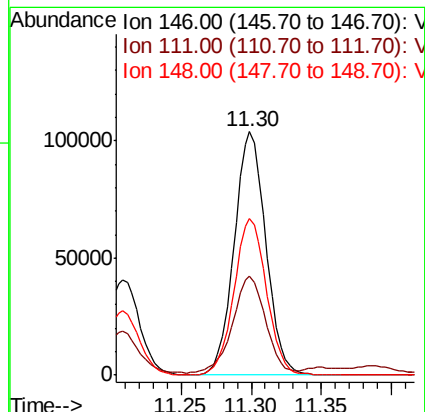
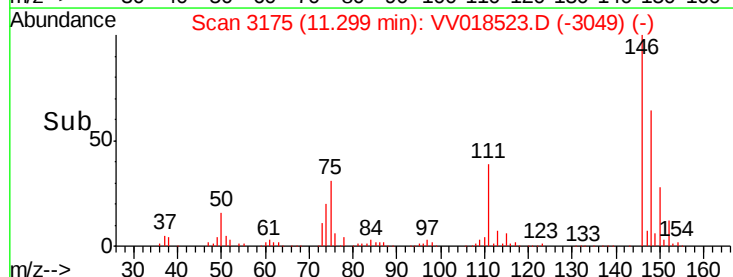
148 64.4 44.4 82.5

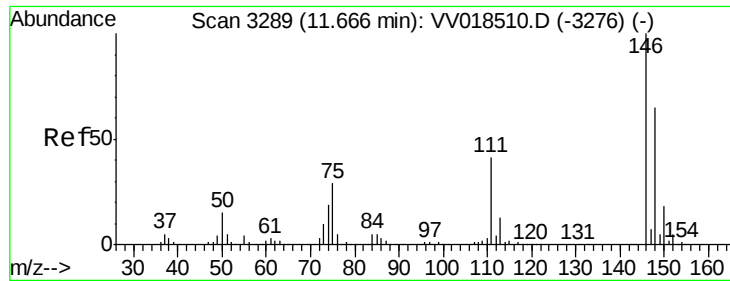


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 14.988 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampleId :

BG3Y9

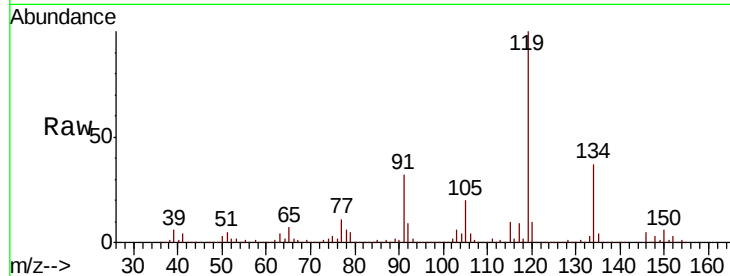
Tot Ion:146 Resp: 116530

Ion Ratio Lower Upper

146 100

111 43.0 32.8 49.2

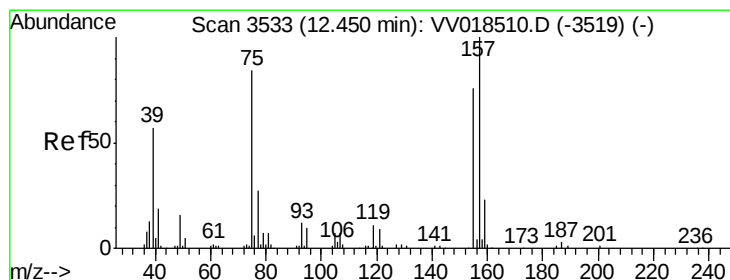
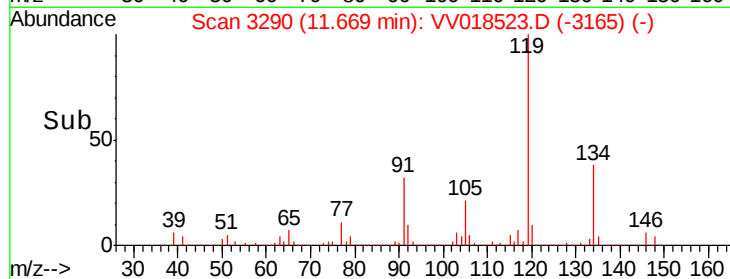
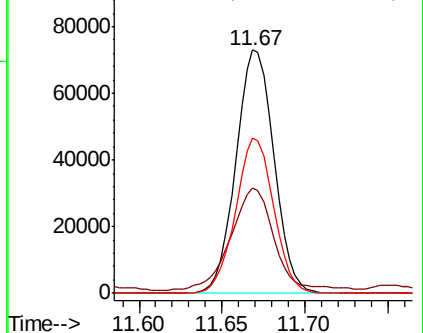
148 63.9 51.9 77.9



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: 13.085 ug/L

RT: 12.43 min Scan# 3528

Delta R.T. -0.02 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

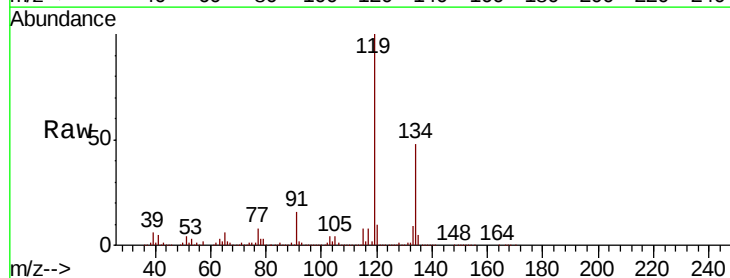
Tgt Ion: 75 Resp: 13888

Ion Ratio Lower Upper

75 100

155 3.3 73.0 109.6#

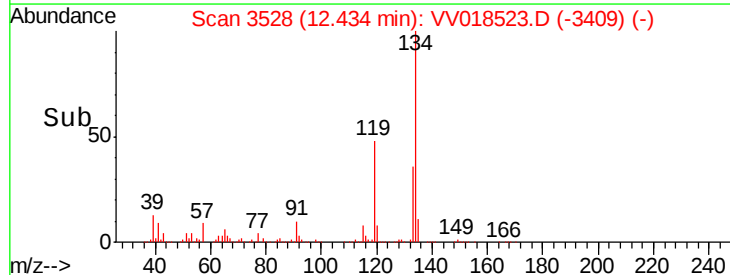
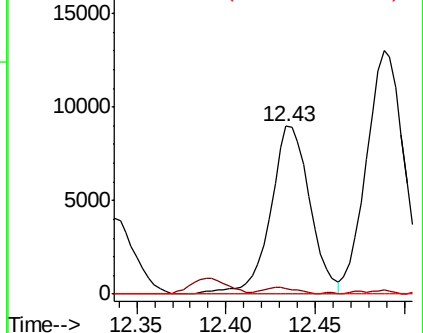
157 0.0 95.8 143.6#

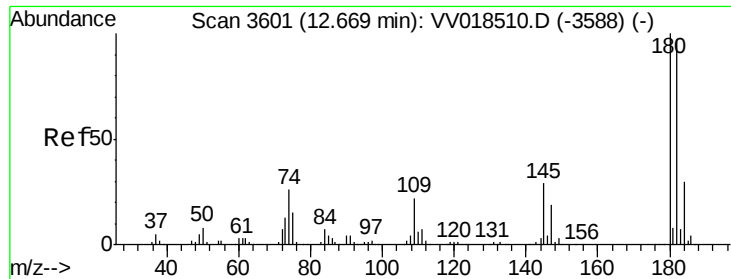


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

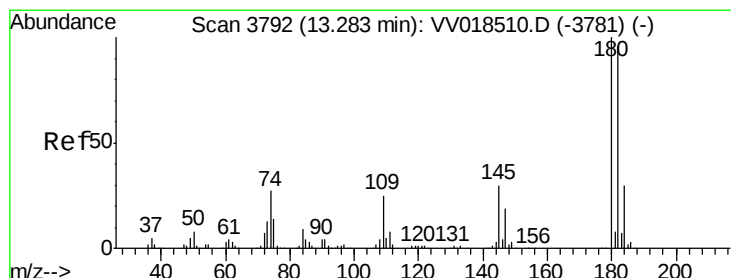
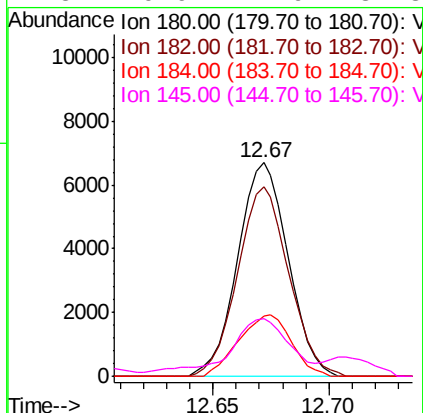
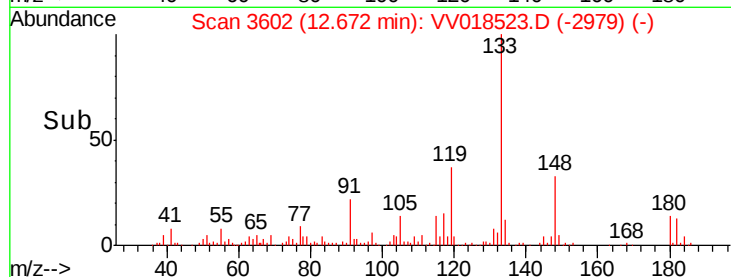
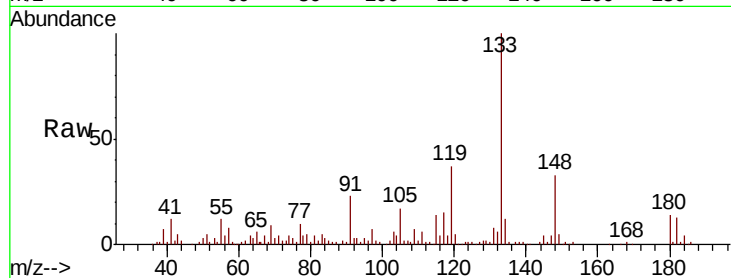




#67
 1,3,5-Trichlorobenzene
 Concen: 1.858 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.00 min
 Lab File: VV018523.D
 Acq: 29 Sep 2020 17:53

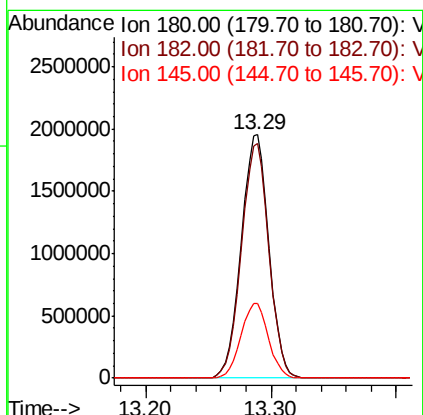
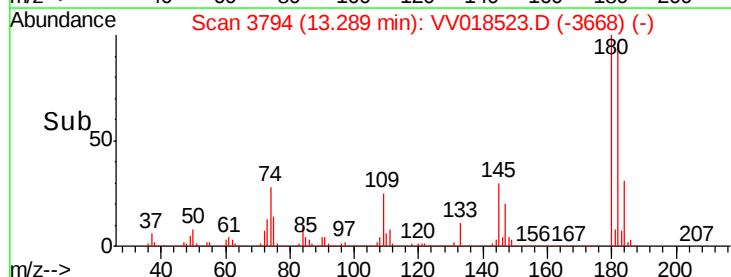
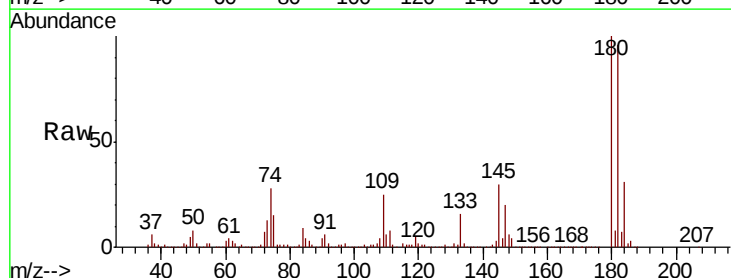
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Y9

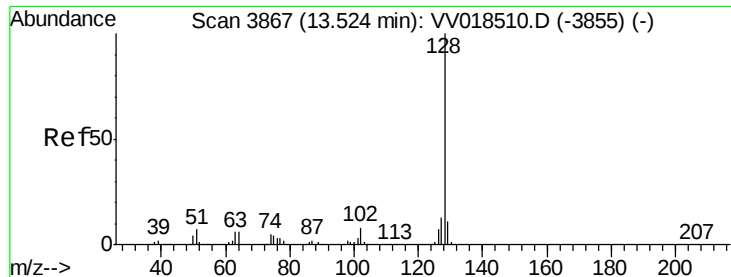
Tot Ion:180 Resp: 10115
 Ion Ratio Lower Upper
 180 100
 182 90.0 77.1 115.7
 184 29.8 24.3 36.5
 145 29.9 22.9 34.3



#68
 1,2,4-trichlorobenzene
 Concen: 589.346 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV018523.D
 Acq: 29 Sep 2020 17:53

Tgt Ion:180 Resp: 2985543
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.3 114.5
 145 30.4 23.6 35.4





#69

Naphthalene

Concen: 122.652 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

Instrument :

MSVOA_V

ClientSampleId :

BG3Y9

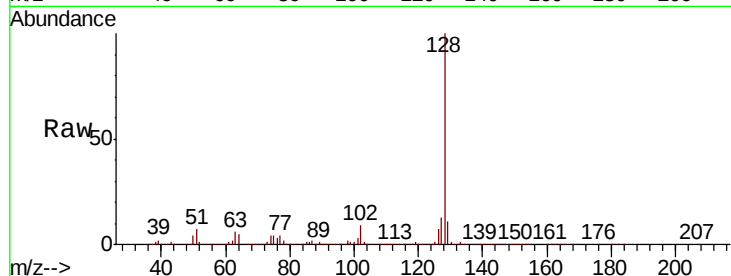
Tot Ion:128 Resp: 1778617

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

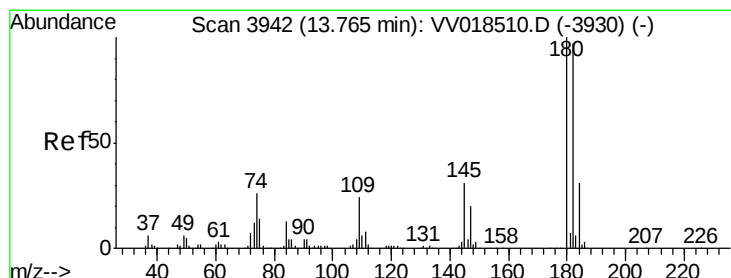
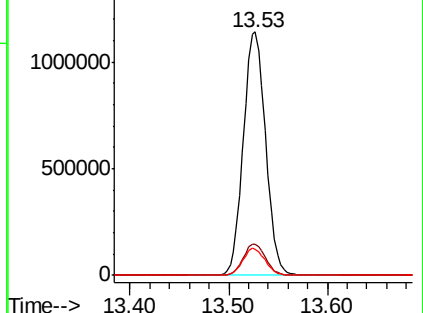
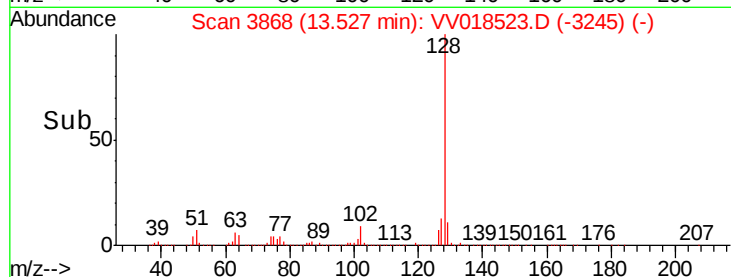
129 11.1 8.6 12.8



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



#70

1,2,3-Trichlorobenzene

Concen: 194.256 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV018523.D

Acq: 29 Sep 2020 17:53

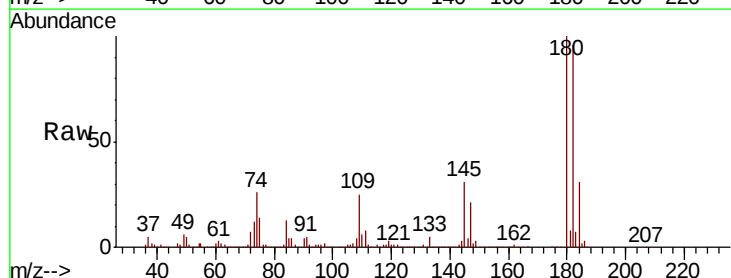
Tgt Ion:180 Resp: 987876

Ion Ratio Lower Upper

180 100

182 96.3 77.1 115.7

145 33.3 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

