

Data File : VV010846.D
Acq On : 13 May 2019 18:46
Operator : SY/MD
Sample : VSTD00502
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Quant Time: May 13 20:41:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Mon May 13 20:37:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	125808	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	129751	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	60011	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	7085	3.62	ug/L	0.00
7) Chloroethane-d5	1.56	69	4843	3.01	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	14601	3.44	ug/L	0.00
20) 2-Butanone-d5	4.02	46	232	0.40	ug/L	0.08
24) Chloroform-d	4.40	84	17879	5.21	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	10324	4.82	ug/L	0.00
29) Benzene-d6	5.10	84	34235	5.01	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	11054	5.08	ug/L	0.00
37) Toluene-d8	7.36	98	31806	4.86	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	4494	4.53	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	3908	8.58	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	10638	5.20	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	12294	5.29	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	6492	3.726 ug/L	98
3) Chloromethane	1.25	50	8037	3.792 ug/L	97
5) Vinyl chloride	1.32	62	8477	3.444 ug/L #	74
6) Bromomethane	1.51	94	1823	1.527 ug/L	95
8) Chloroethane	1.58	64	5118	3.339 ug/L	93
9) Trichlorofluoromethane	1.76	101	12099	3.266 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	7286	3.445 ug/L	98
12) 1,1-Dichloroethene	2.13	96	7336	3.704 ug/L	93
13) Acetone	2.19	43	4837	5.327 ug/L	94
14) Carbon disulfide	2.31	76	21227	4.361 ug/L	98
15) Methyl Acetate	2.46	43	5782	5.331 ug/L	98
16) Methylene chloride	2.53	84	10406	5.349 ug/L	98
17) Methyl tert-butyl Ether	2.81	73	21902	4.416 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	8148	4.551 ug/L	95
19) 1,1-Dichloroethane	3.22	63	15387	4.452 ug/L	97
21) 2-Butanone	4.03	43	6357	7.387 ug/L	82
22) cis-1,2-Dichloroethene	3.96	96	8957	4.380 ug/L	93
23) Bromochloromethane	4.29	128	4304	4.682 ug/L	98
25) Chloroform	4.42	83	17183	4.513 ug/L	100
27) 1,2-Dichloroethane	5.18	62	12470	4.481 ug/L	97
30) Cyclohexane	4.72	56	10804	3.320 ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	13295	4.110 ug/L	99
32) Carbon tetrachloride	4.87	117	10898	3.867 ug/L	99
34) Benzene	5.14	78	34415	4.518 ug/L	100
35) Trichloroethene	5.96	95	9113	4.271 ug/L	98
36) Methylcyclohexane	6.17	83	11612	3.396 ug/L	96
40) 1,2-Dichloropropane	6.22	63	10116	4.993 ug/L #	89
41) Bromodichloromethane	6.56	83	11980	4.303 ug/L	97
42) cis-1,3-Dichloropropene	7.07	75	13400	4.181 ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	13250	7.769 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Mon May 13 20:37:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	36473	4.216	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	10642	3.943	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	7766	4.665	ug/L	95
47) Tetrachloroethene	8.02	164	6386	4.133	ug/L	93
49) 2-Hexanone	8.19	43	10478	8.080	ug/L	92
50) Dibromochloromethane	8.29	129	7995	4.177	ug/L	91
51) 1,2-Dibromoethane	8.40	107	7194	4.475	ug/L	98
52) Chlorobenzene	8.93	112	26242	4.643	ug/L	98
53) Ethylbenzene	9.05	91	39221	3.910	ug/L	94
54) m,p-Xylene	9.18	106	15220	4.061	ug/L	93
55) o-xylene	9.59	106	15452	4.157	ug/L	98
56) Styrene	9.60	104	25628	4.076	ug/L	99
57) Isopropylbenzene	9.97	105	37939	3.825	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	10377	4.758	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	7467	4.387	ug/L	99
62) Bromoform	9.77	173	3789	3.708	ug/L	92
63) 1,3-Dichlorobenzene	11.22	146	18401	4.405	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	20263	4.749	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	19592	4.829	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	1587	4.215	ug/L	87
67) 1,3,5-Trichlorobenzene	12.69	180	13770	4.576	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	10376	4.457	ug/L	98
69) Naphthalene	13.55	128	20000	4.013	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	10217	4.678	ug/L	99

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

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

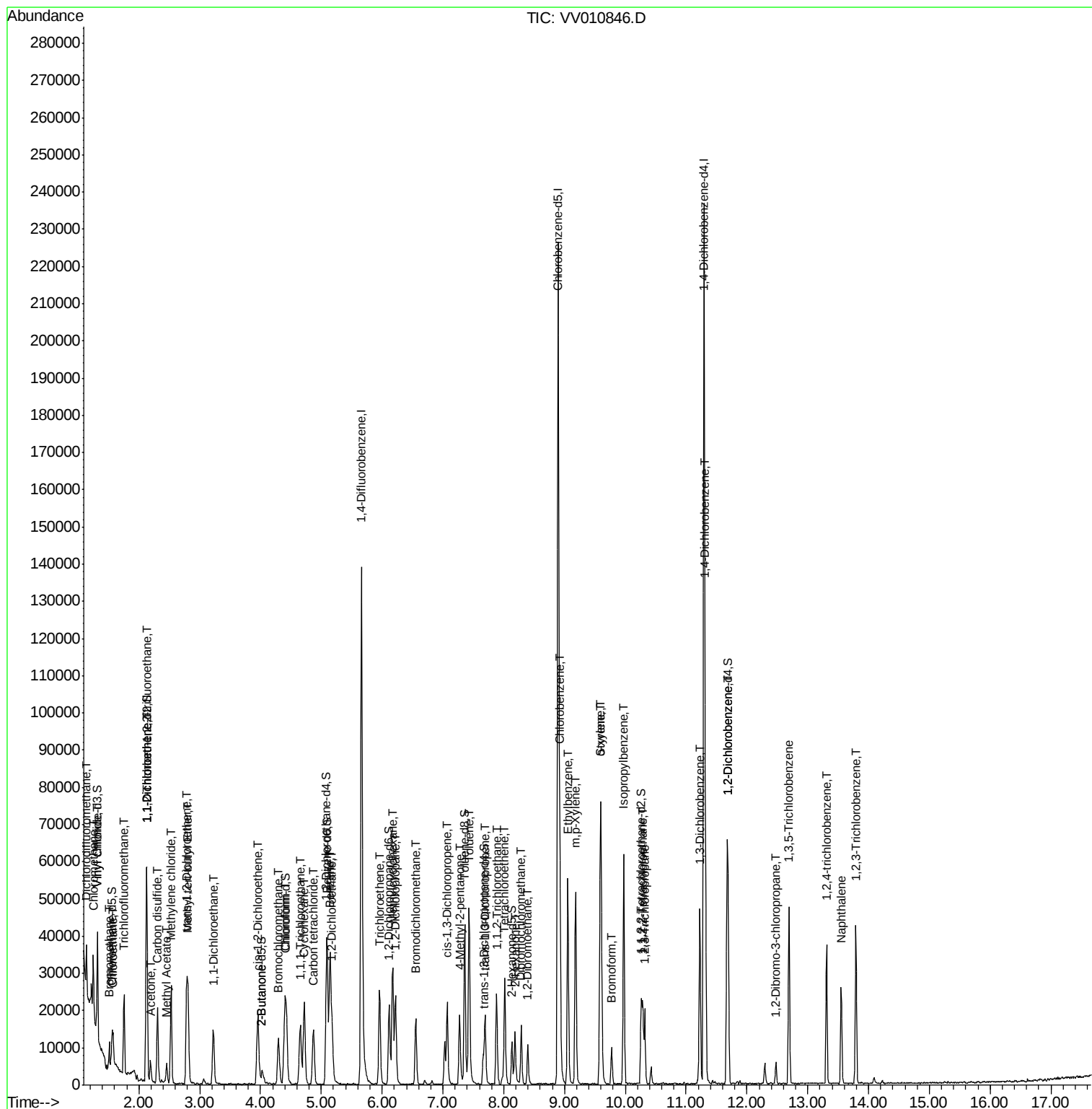
Quant Time: May 13 20:41:16 2019

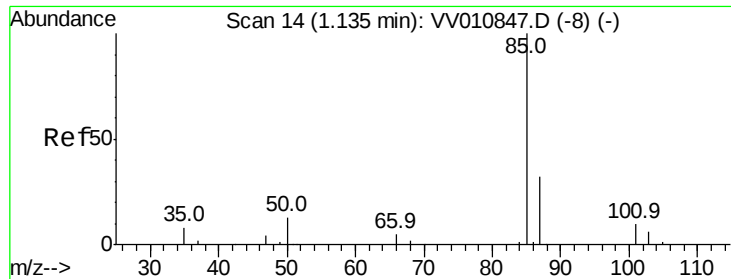
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM051319S.M

Quant Title : VOC Analysis

QLast Update : Mon May 13 20:37:54 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 3.726 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

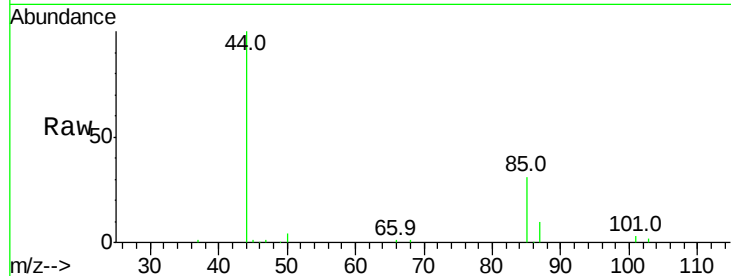
VSTD00563

Tgt Ion: 85 Resp: 6492

Ion Ratio Lower Upper

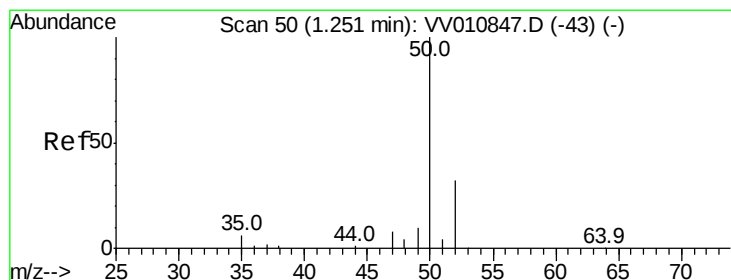
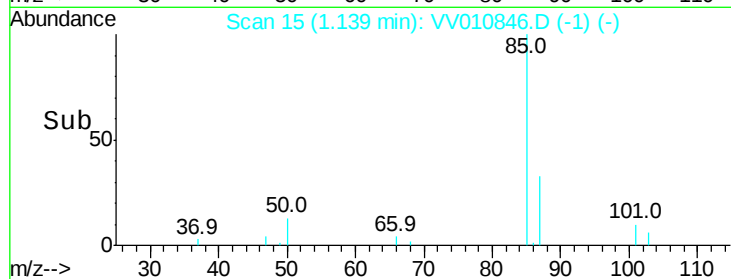
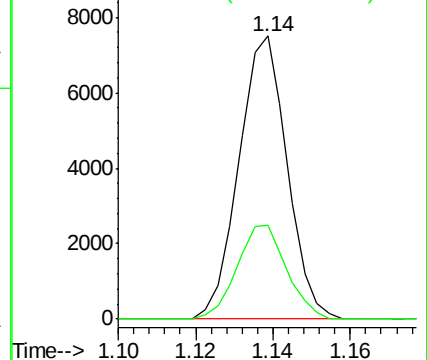
85 100

87 34.1 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 3.792 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010846.D

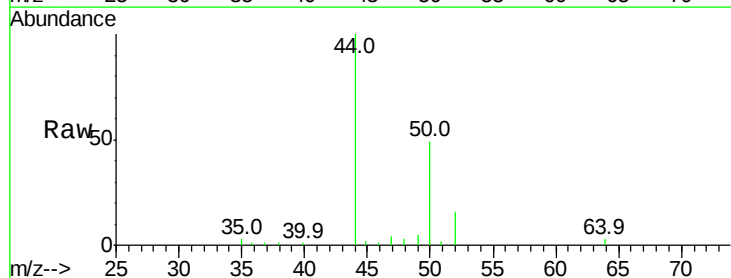
Acq: 13 May 2019 18:46

Tgt Ion: 50 Resp: 8037

Ion Ratio Lower Upper

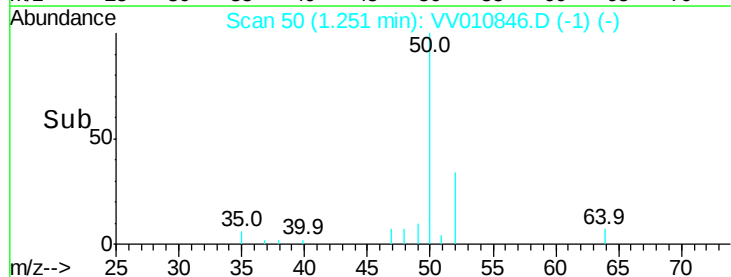
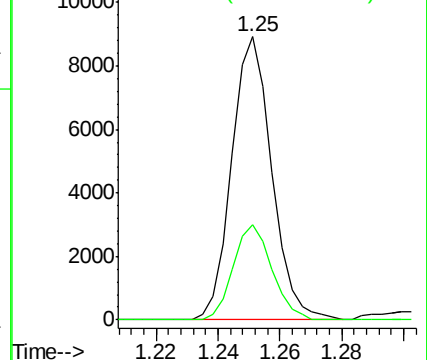
50 100

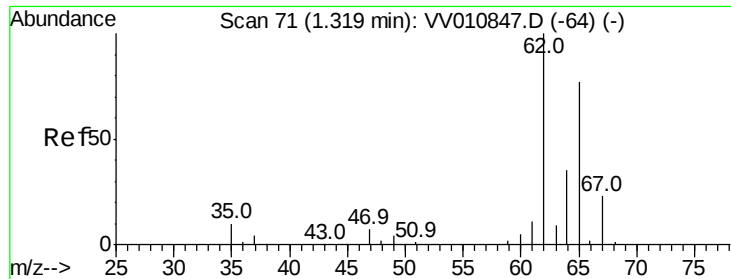
52 33.7 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 3.444 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampled :

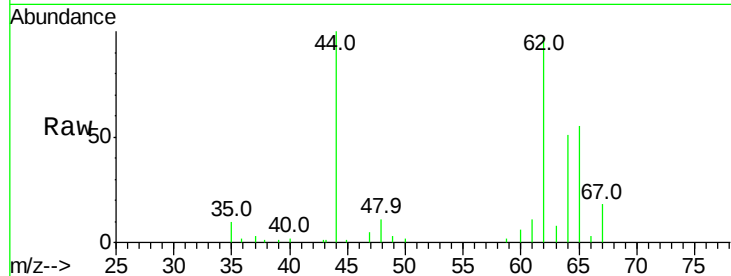
VSTD00563

Tgt Ion: 62 Resp: 8477

Ion Ratio Lower Upper

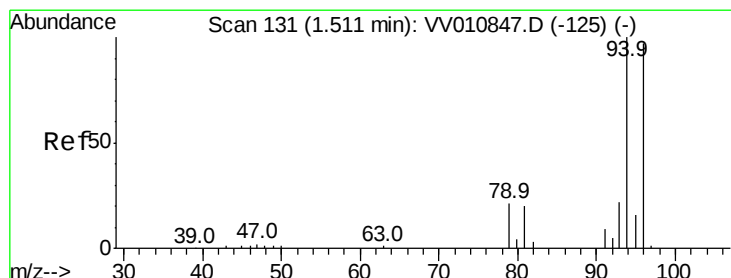
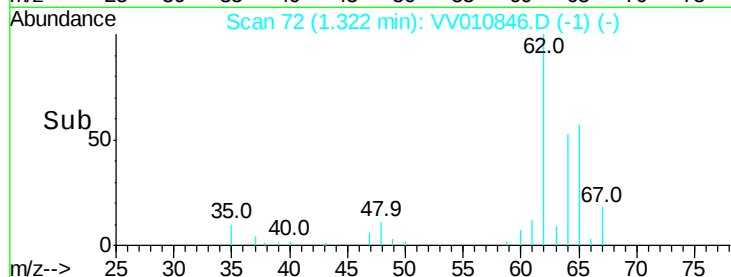
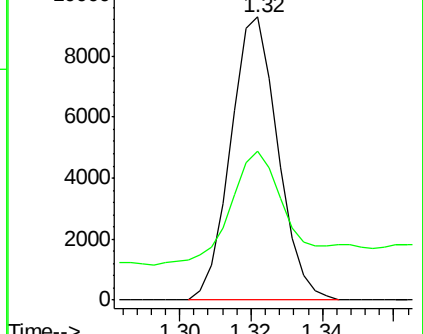
62 100

64 52.6 26.1 48.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 1.527 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV010846.D

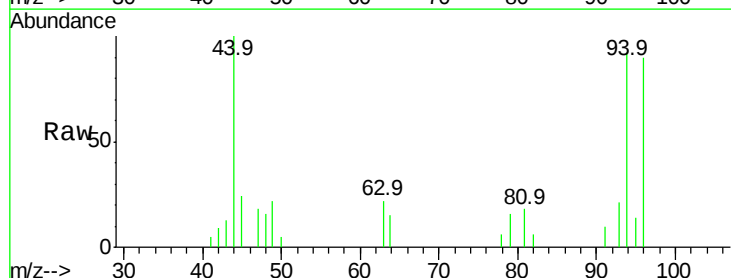
Acq: 13 May 2019 18:46

Tgt Ion: 94 Resp: 1823

Ion Ratio Lower Upper

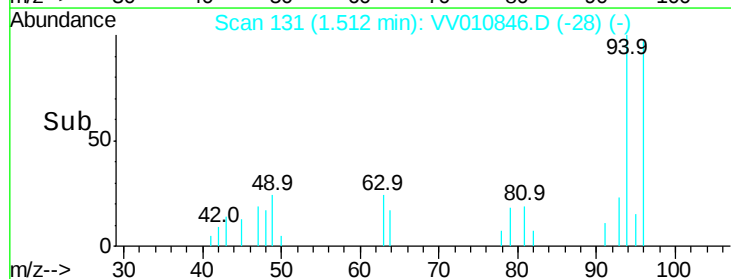
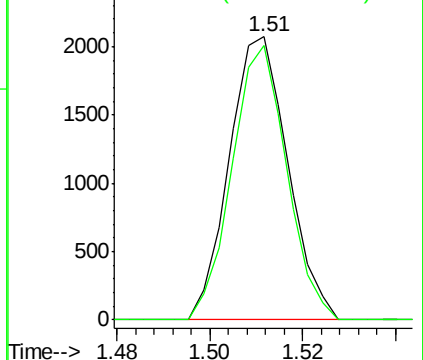
94 100

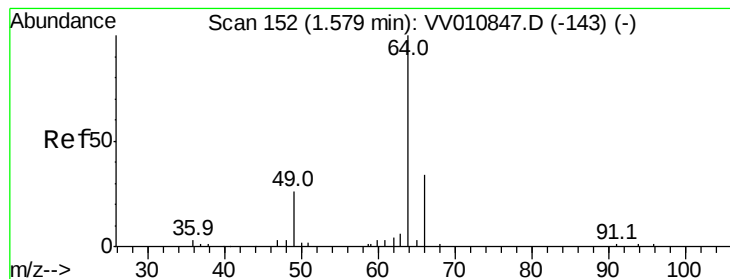
96 90.3 9.6 181.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 3.339 ug/L

RT: 1.58 min Scan# 151

Delta R.T. -0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

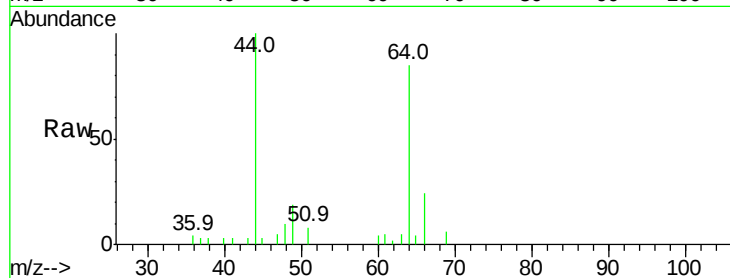
VSTD00563

Tgt Ion: 64 Resp: 5118

Ion Ratio Lower Upper

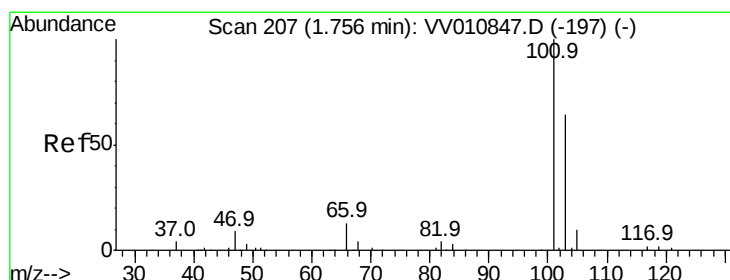
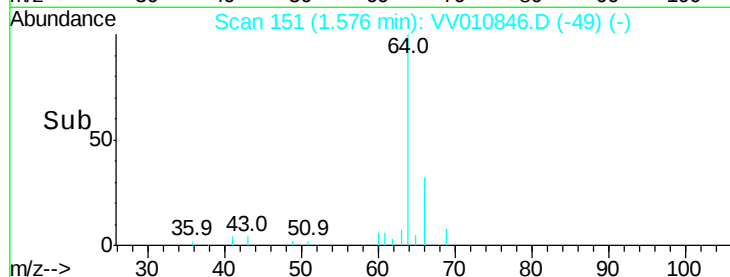
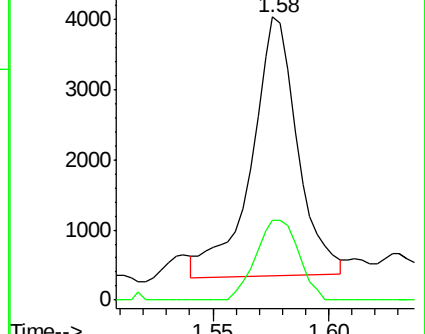
64 100

66 28.0 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV010847.D (-143) (-)

Ion 66.00 (65.70 to 66.70): VV010847.D (-143) (-)



#9

Trichlorofluoromethane

Concen: 3.266 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.00 min

Lab File: VV010846.D

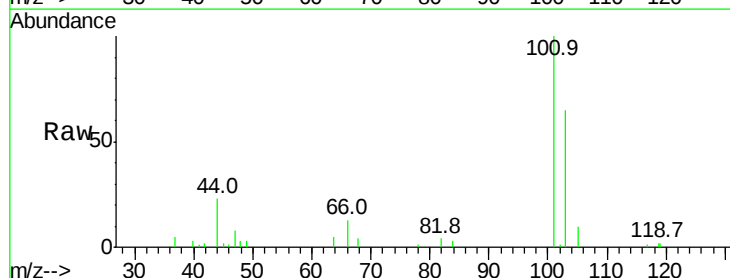
Acq: 13 May 2019 18:46

Tgt Ion: 101 Resp: 12099

Ion Ratio Lower Upper

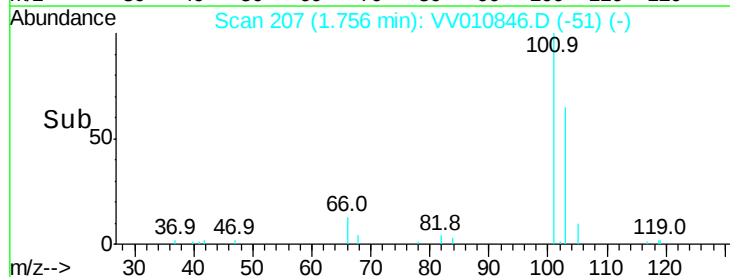
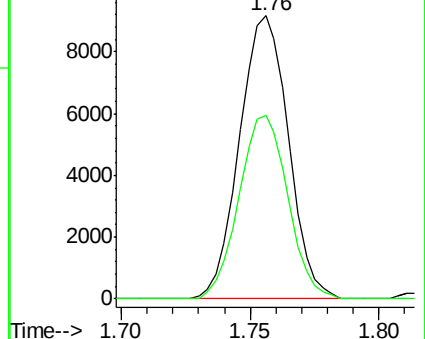
101 100

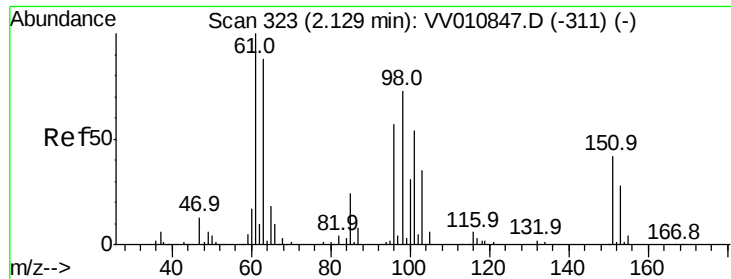
103 64.6 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): VV010847.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV010847.D (-197) (-)





#11

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

Concen: 3.445 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampled :

VSTD00563

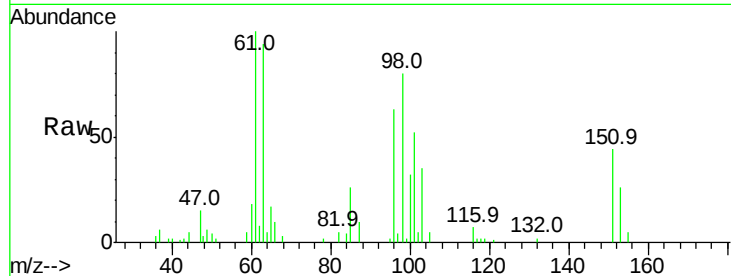
Tgt Ion: 101 Resp: 7286

Ion Ratio Lower Upper

101 100

85 44.3 35.7 53.5

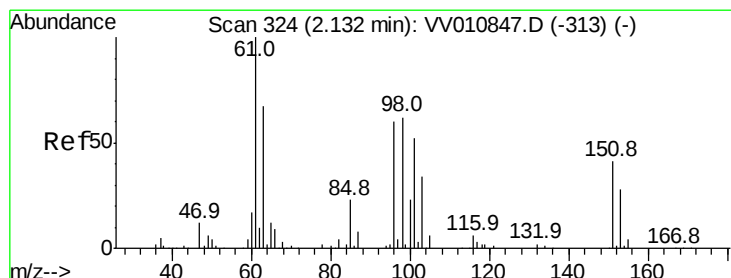
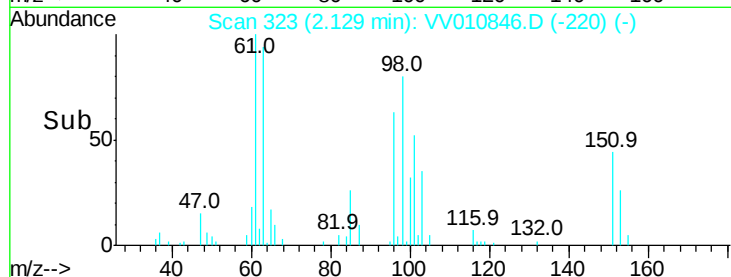
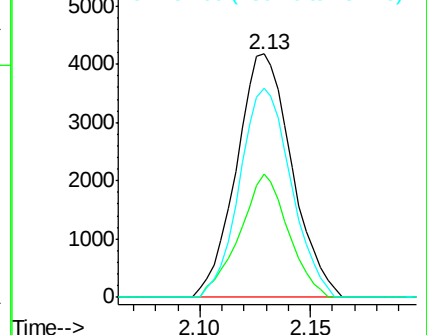
151 79.8 62.2 93.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.704 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

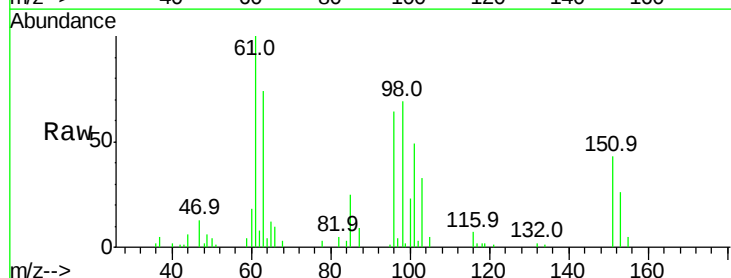
Tgt Ion: 96 Resp: 7336

Ion Ratio Lower Upper

96 100

61 155.2 117.5 218.3

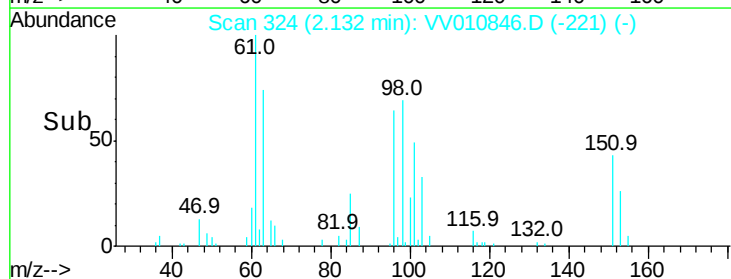
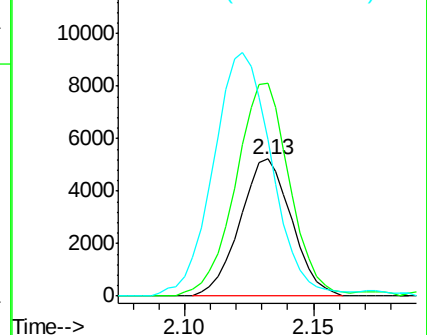
63 114.2 82.8 153.8

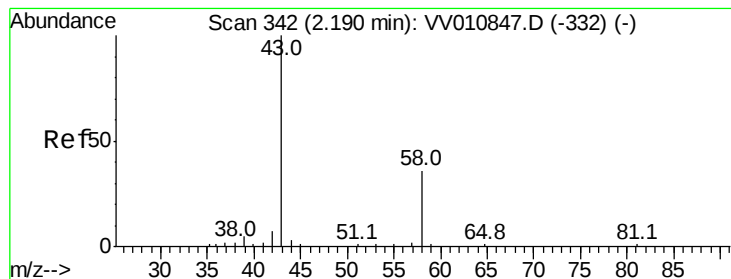


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 5.327 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

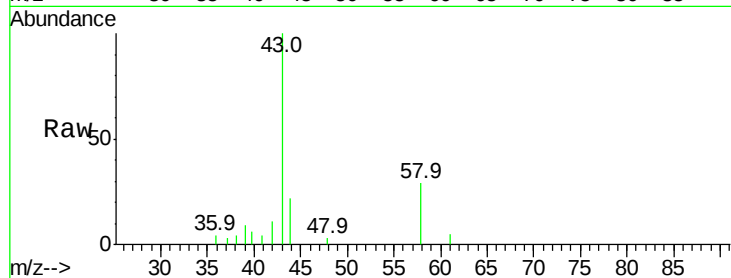
VSTD00563

Tgt Ion: 43 Resp: 4837

Ion Ratio Lower Upper

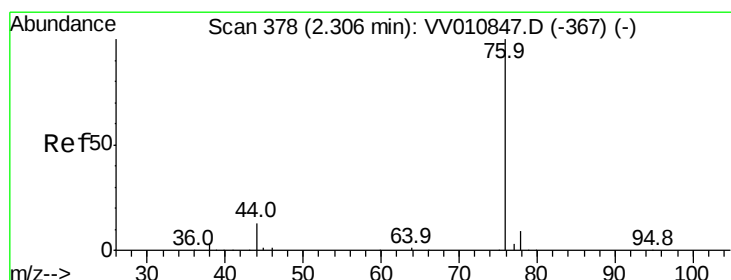
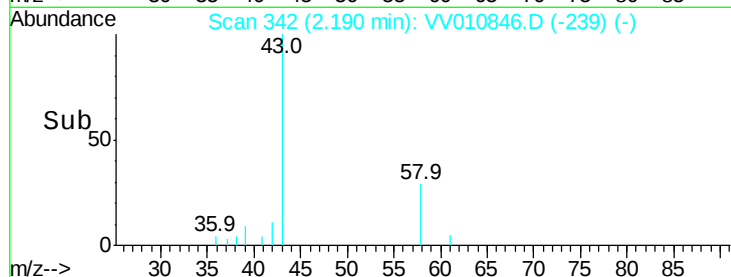
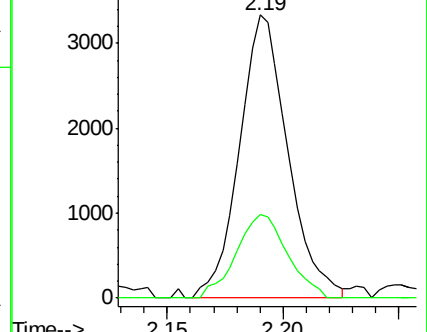
43 100

58 31.2 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VV010847.D (-332) (-)

Ion 58.00 (57.70 to 58.70): VV010847.D (-332) (-)



#14

Carbon disulfide

Concen: 4.361 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV010846.D

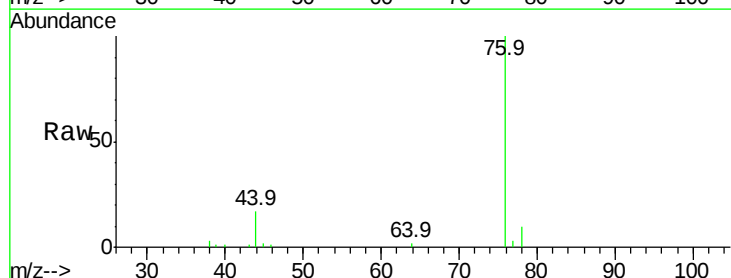
Acq: 13 May 2019 18:46

Tgt Ion: 76 Resp: 21227

Ion Ratio Lower Upper

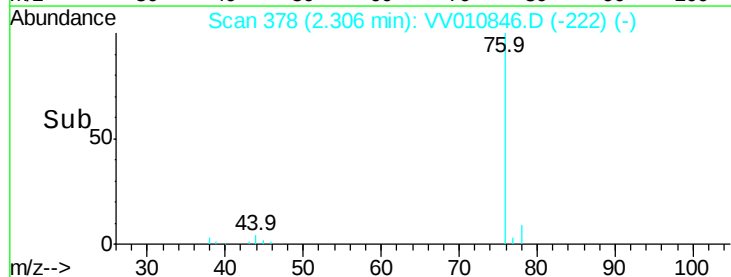
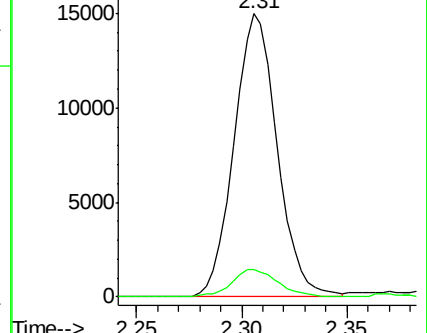
76 100

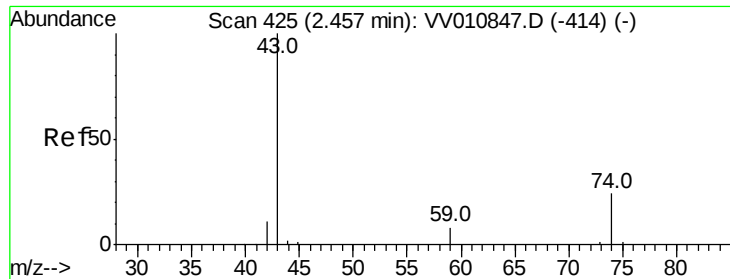
78 9.7 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV010847.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV010847.D (-367) (-)





#15

Methyl Acetate

Concen: 5.331 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

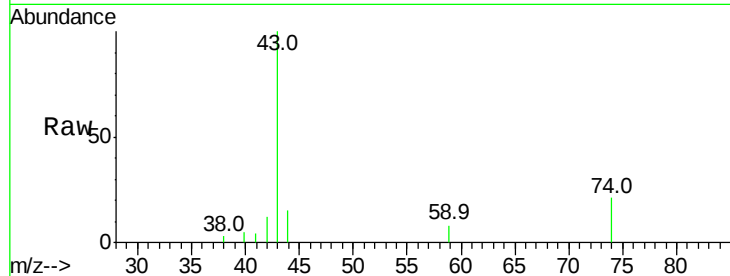
VSTD00563

Tgt Ion: 43 Resp: 5782

Ion Ratio Lower Upper

43 100

74 22.3 18.6 27.8

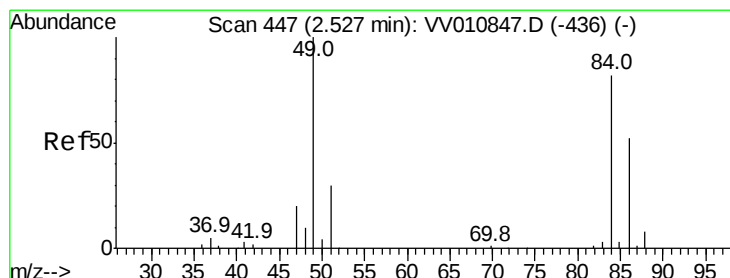
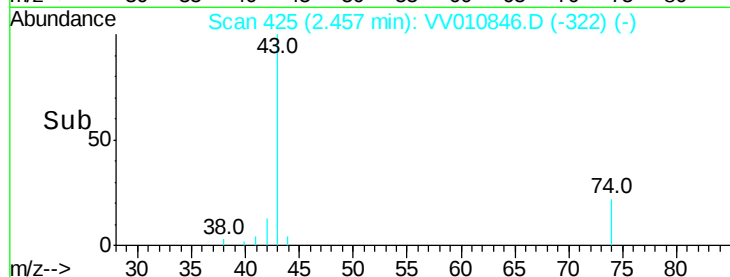


Abundance Ion 43.00 (42.70 to 43.70): VV010846.D (-322) (-)

Ion 74.00 (73.70 to 74.70): VV010846.D (-322) (-)

2.46

Time-->



#16

Methylene chloride

Concen: 5.349 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

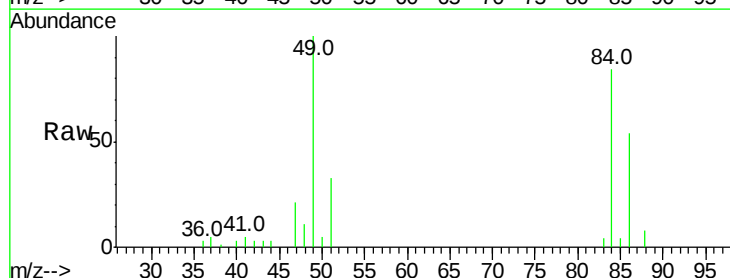
Tgt Ion: 84 Resp: 10406

Ion Ratio Lower Upper

84 100

49 119.1 85.8 159.3

86 64.7 45.0 83.6



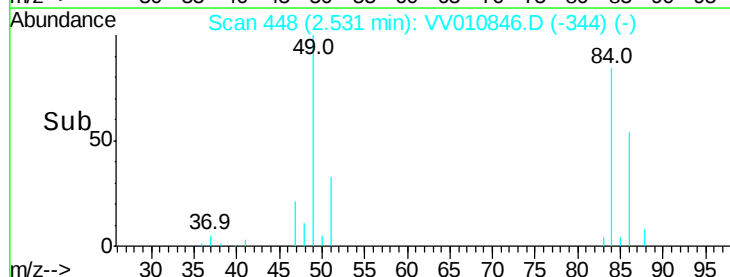
Abundance Ion 84.00 (83.70 to 84.70): VV010846.D (-344) (-)

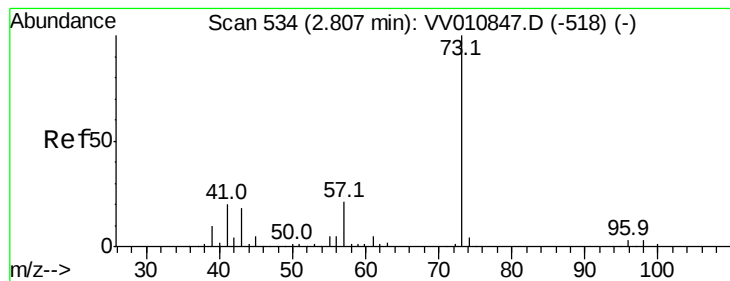
Ion 49.00 (48.70 to 49.70): VV010846.D (-344) (-)

Ion 86.00 (85.70 to 86.70): VV010846.D (-344) (-)

2.53

Time-->



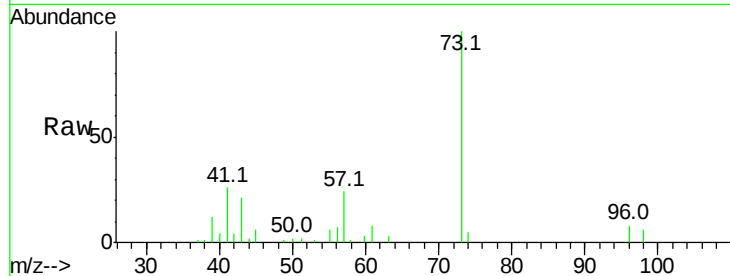


#17

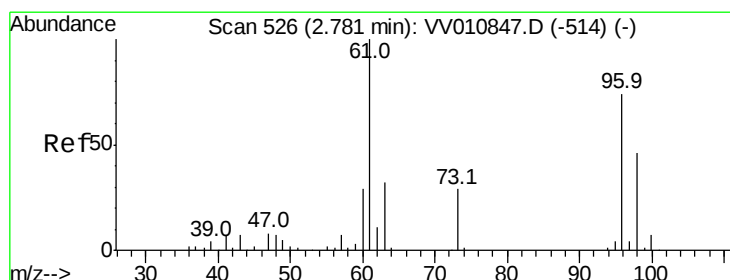
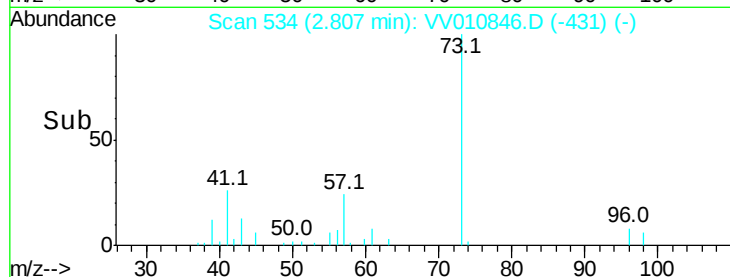
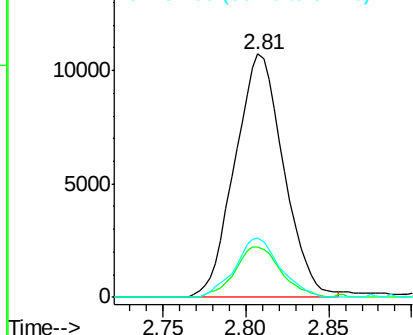
Methyl tert-butyl Ether
 Concen: 4.416 ug/L
 RT: 2.81 min Scan# 534
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tgt Ion: 73 Resp: 21902
 Ion Ratio Lower Upper
 73 100
 43 19.7 15.3 22.9
 57 22.4 17.5 26.3



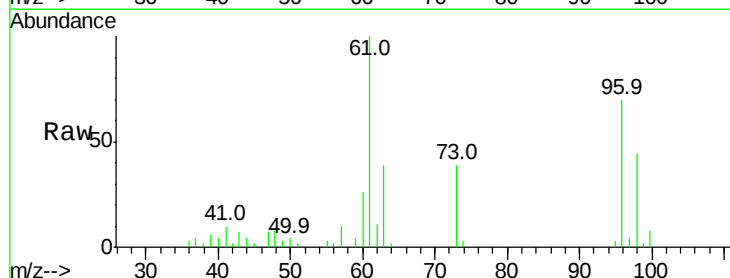
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



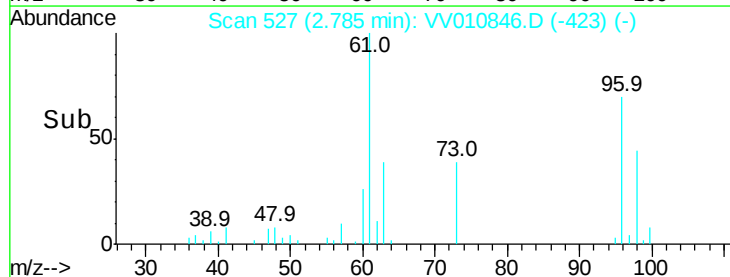
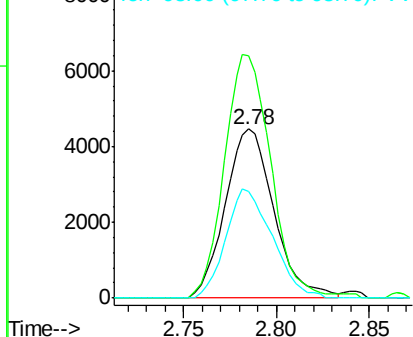
#18

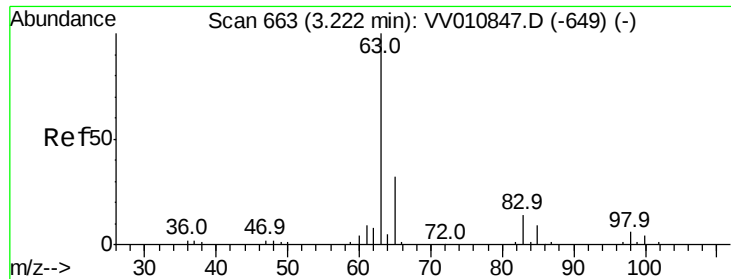
trans-1,2-Dichloroethene
 Concen: 4.551 ug/L
 RT: 2.78 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion: 96 Resp: 8148
 Ion Ratio Lower Upper
 96 100
 61 143.2 95.0 176.4
 98 63.1 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

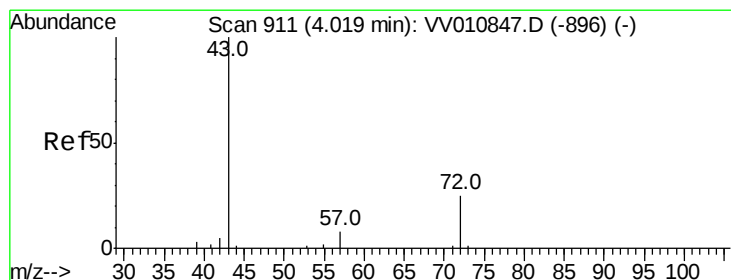
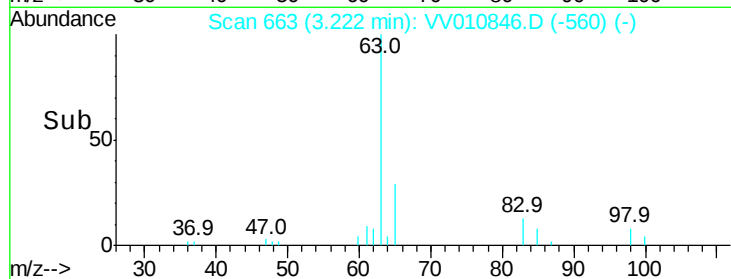
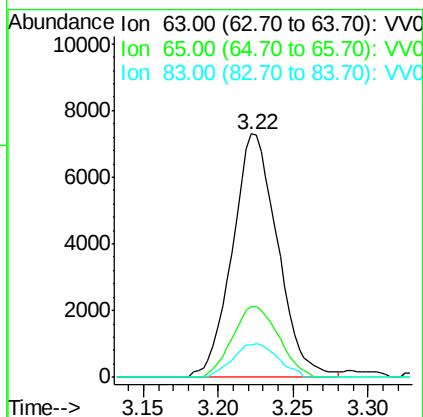
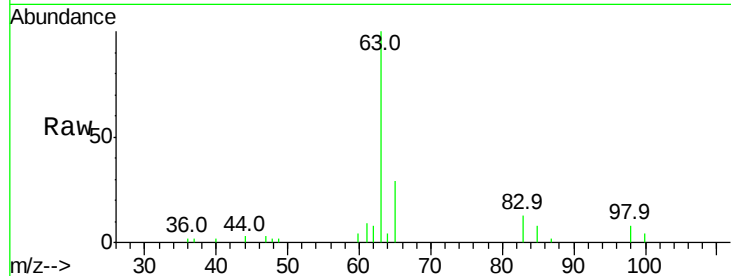




#19
 1,1-Dichloroethane
 Concen: 4.452 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

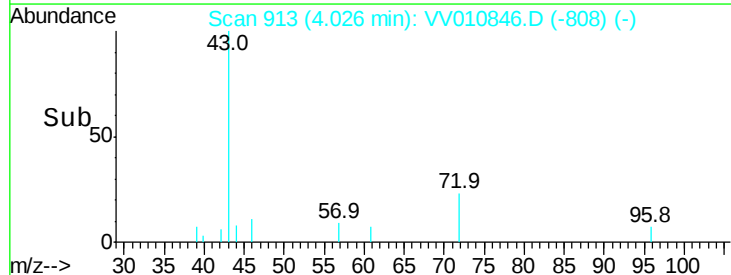
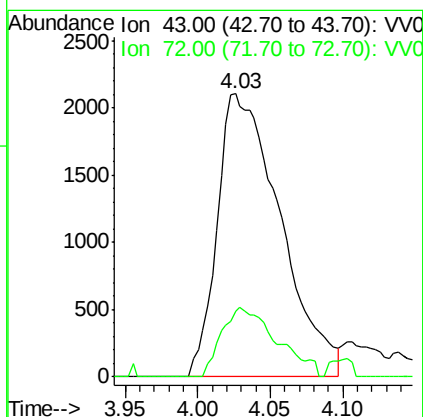
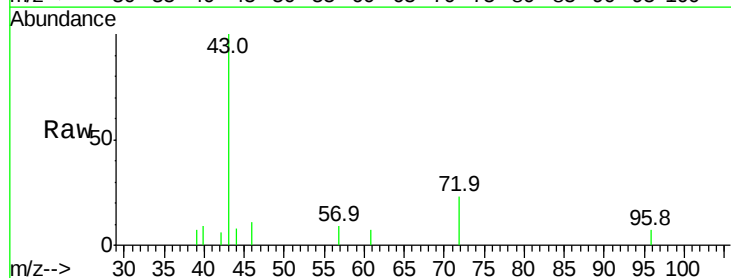
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

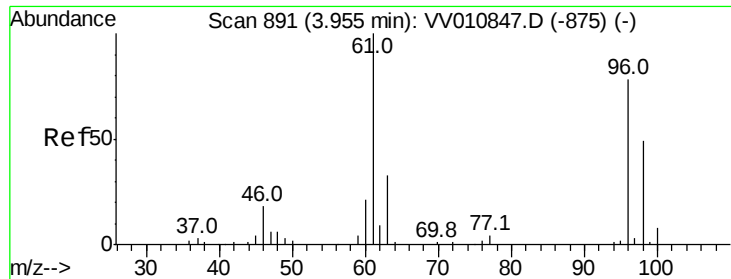
Tgt Ion: 63 Resp: 15387
 Ion Ratio Lower Upper
 63 100
 65 29.2 22.1 41.1
 83 13.4 9.7 17.9



#21
 2-Butanone
 Concen: 7.387 ug/L
 RT: 4.03 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion: 43 Resp: 6357
 Ion Ratio Lower Upper
 43 100
 72 18.1 13.7 41.1



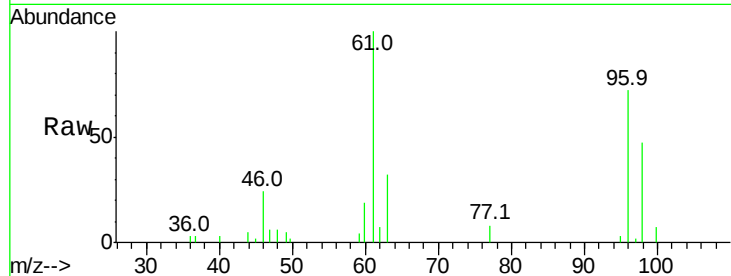


#22

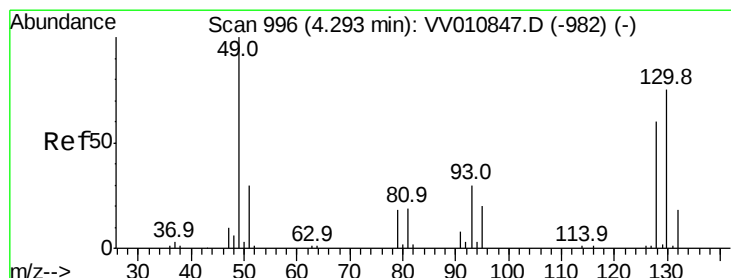
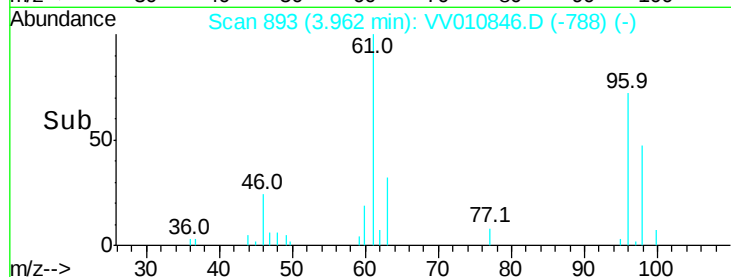
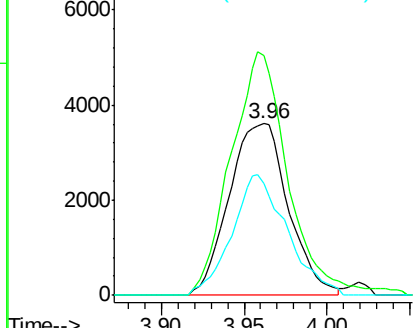
cis-1,2-Dichloroethene
Concen: 4.380 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.01 min
Lab File: VV010846.D
Acq: 13 May 2019 18:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tgt Ion: 96 Resp: 8957
Ion Ratio Lower Upper
96 100
61 139.8 90.2 167.6
98 65.3 44.2 82.0



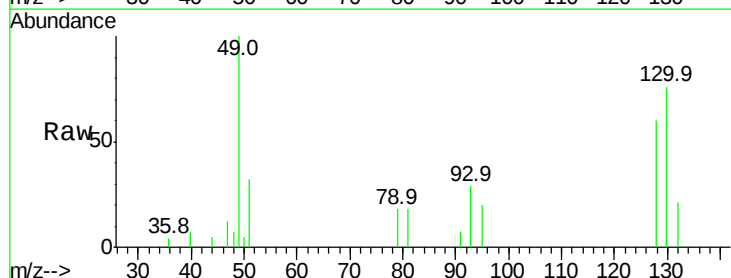
Abundance Ion 96.00 (95.70 to 96.70): VV010847.D (-875) (-)
Ion 61.00 (60.70 to 61.70): VV010847.D (-875) (-)
Ion 98.00 (97.70 to 98.70): VV010847.D (-875) (-)



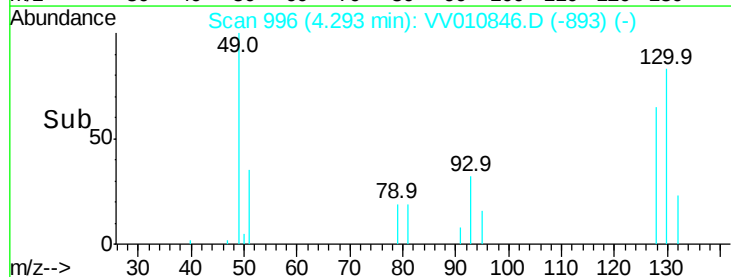
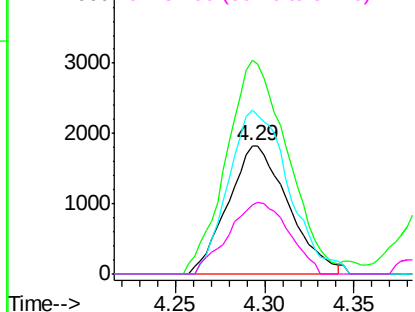
#23

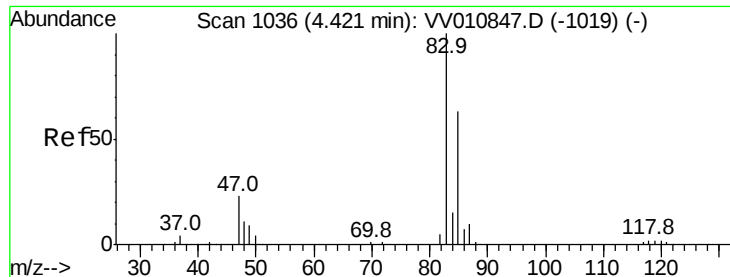
Bromochloromethane
Concen: 4.682 ug/L
RT: 4.29 min Scan# 996
Delta R.T. 0.00 min
Lab File: VV010846.D
Acq: 13 May 2019 18:46

Tgt Ion: 128 Resp: 4304
Ion Ratio Lower Upper
128 100
49 166.8 117.8 218.8
130 127.6 88.4 164.2
51 54.2 40.6 60.8



Abundance Ion 128.00 (127.70 to 128.70): VV010847.D (-982) (-)
Ion 49.00 (48.70 to 49.70): VV010847.D (-982) (-)
Ion 130.00 (129.70 to 130.70): VV010847.D (-982) (-)
Ion 51.00 (50.70 to 51.70): VV010847.D (-982) (-)

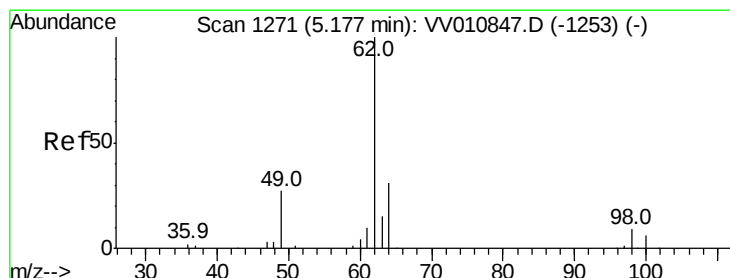
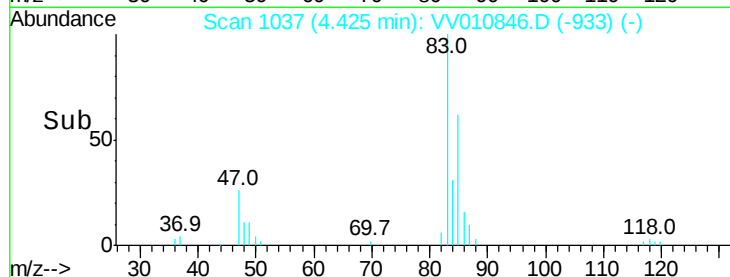
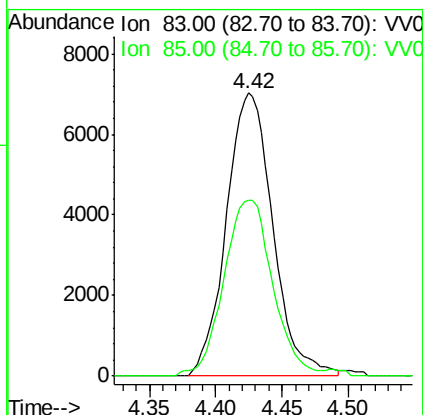
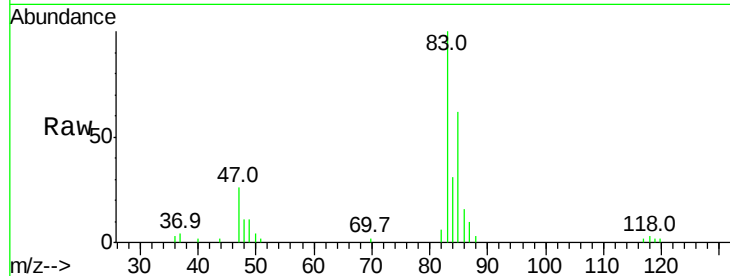




#25
Chloroform
Concen: 4.513 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV010846.D
Acq: 13 May 2019 18:46

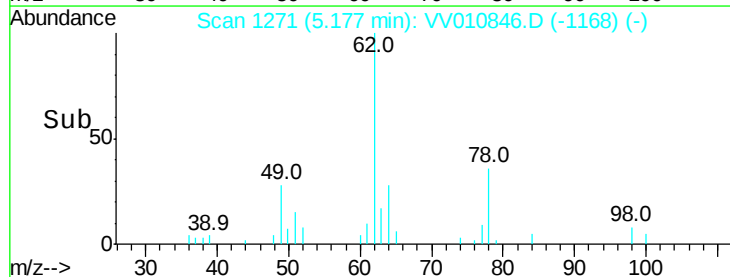
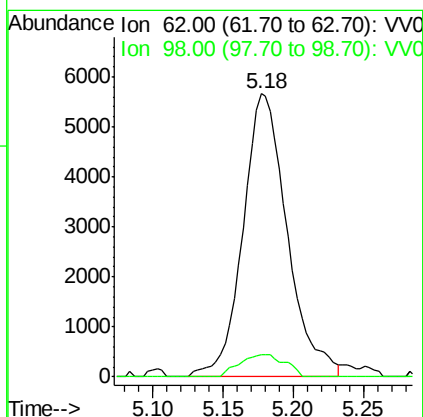
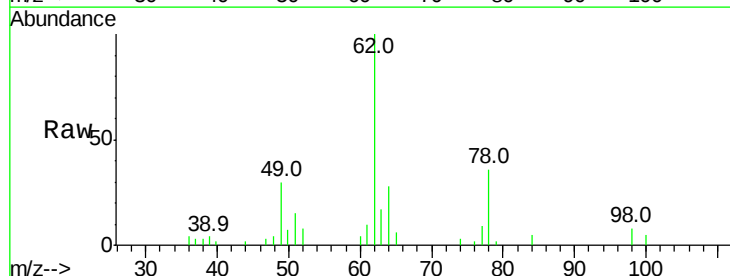
Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

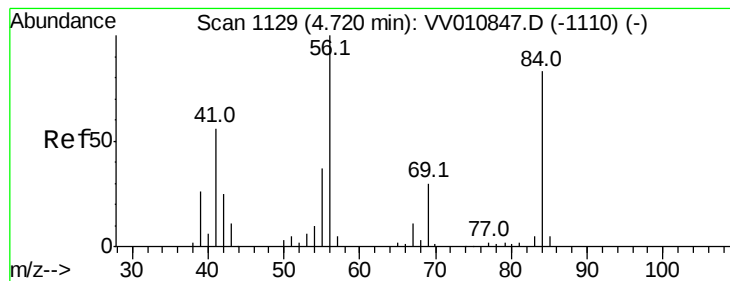
Tgt Ion: 83 Resp: 17183
Ion Ratio Lower Upper
83 100
85 65.0 45.3 84.1



#27
1,2-Dichloroethane
Concen: 4.481 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV010846.D
Acq: 13 May 2019 18:46

Tgt Ion: 62 Resp: 12470
Ion Ratio Lower Upper
62 100
98 7.8 7.0 10.4





#30

Cyclohexane

Concen: 3.320 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

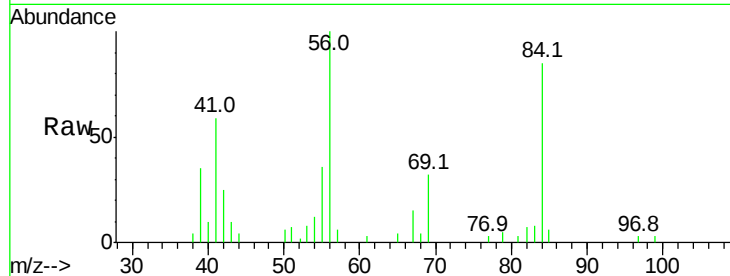
Tgt Ion: 56 Resp: 10804

Ion Ratio Lower Upper

56 100

69 29.7 25.2 37.8

84 85.7 69.0 103.4

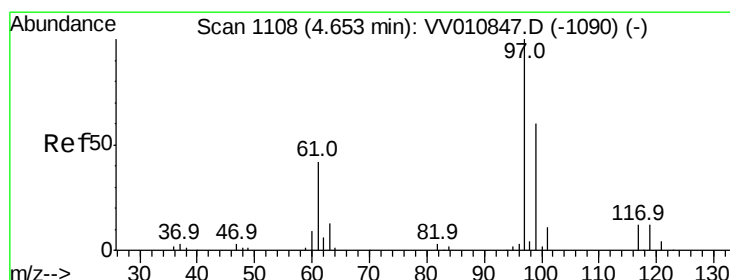
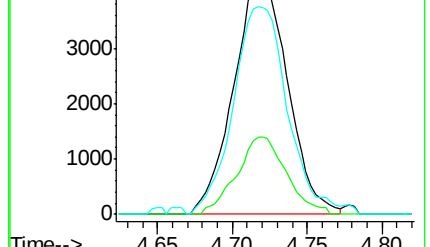
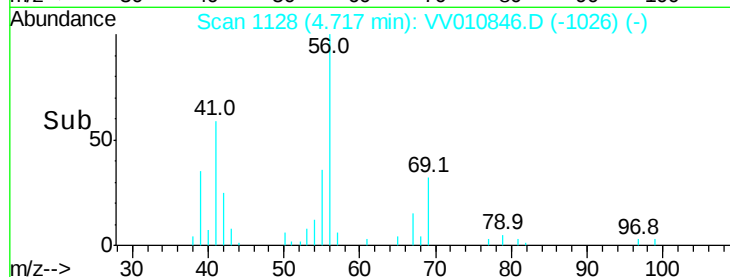


Abundance Ion 56.00 (55.70 to 56.70): VV010846.D (-1026) (-)

Ion 69.00 (68.70 to 69.70): VV010846.D (-1026) (-)

Ion 84.00 (83.70 to 84.70): VV010846.D (-1026) (-)

Time-->



#31

1,1,1-Trichloroethane

Concen: 4.110 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

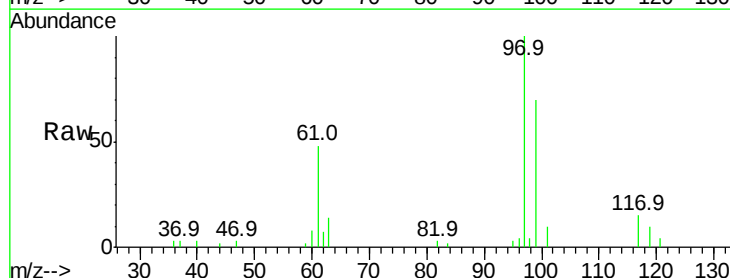
Tgt Ion: 97 Resp: 13295

Ion Ratio Lower Upper

97 100

99 60.5 49.4 74.2

61 42.7 34.6 51.8

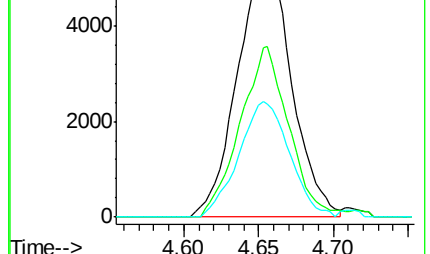
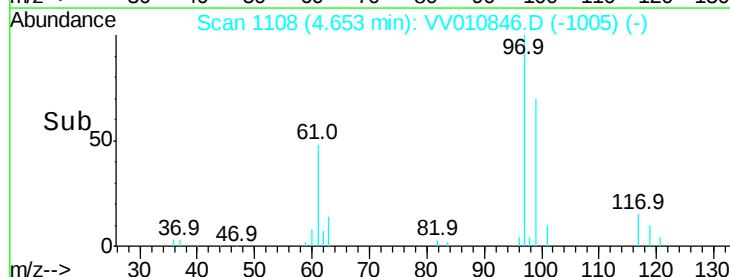


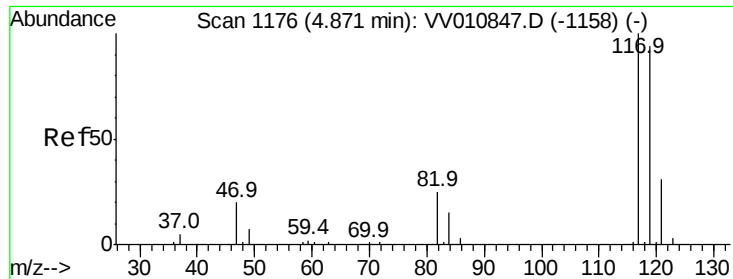
Abundance Ion 97.00 (96.70 to 97.70): VV010846.D (-1005) (-)

Ion 99.00 (98.70 to 99.70): VV010846.D (-1005) (-)

Ion 61.00 (60.70 to 61.70): VV010846.D (-1005) (-)

Time-->





#32

Carbon tetrachloride

Concen: 3.867 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

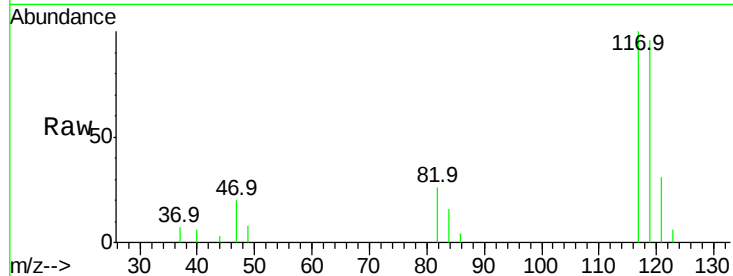
VSTD00563

Tgt Ion:117 Resp: 10898

Ion Ratio Lower Upper

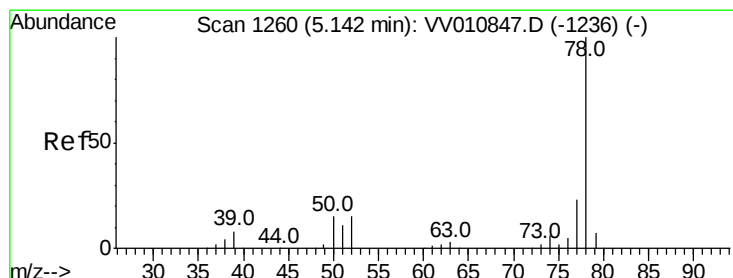
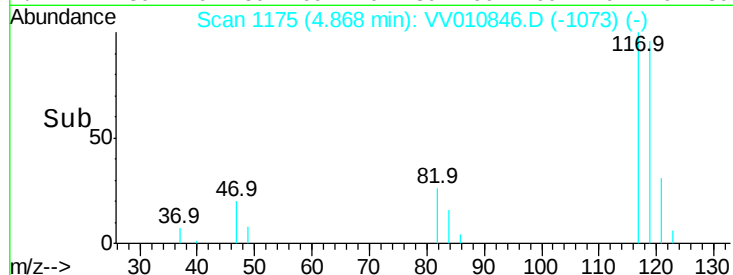
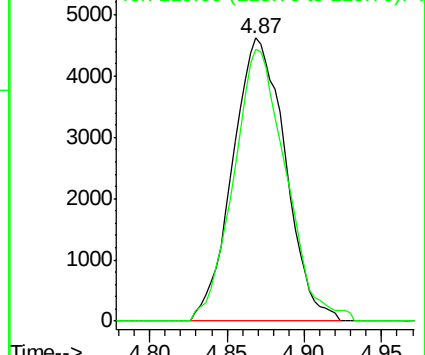
117 100

119 94.8 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 4.518 ug/L

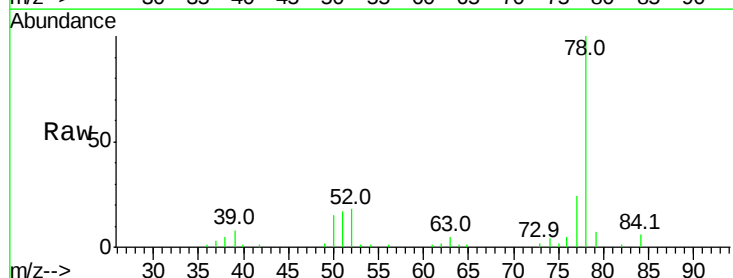
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

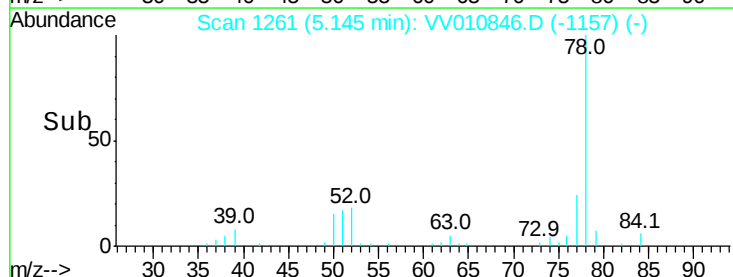
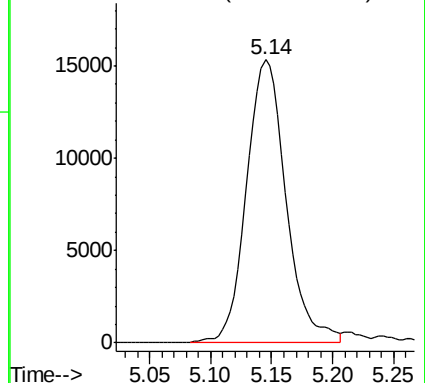
Lab File: VV010846.D

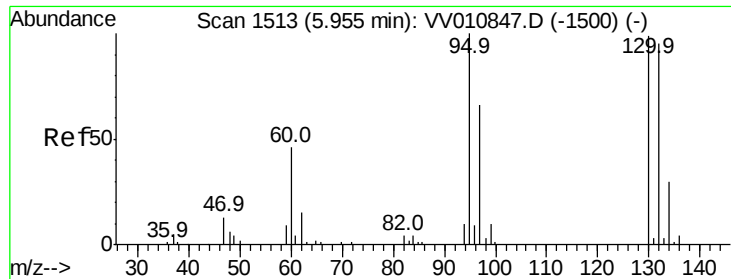
Acq: 13 May 2019 18:46

Tgt Ion: 78 Resp: 34415



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 4.271 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tgt Ion: 95 Resp: 9113

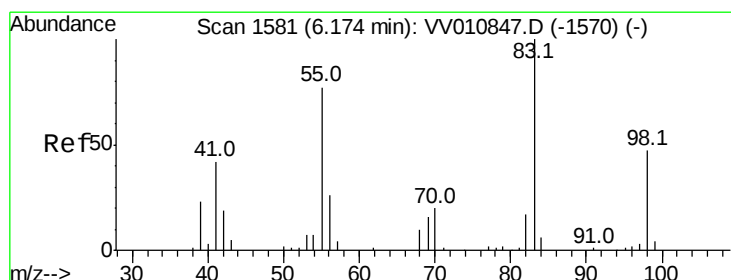
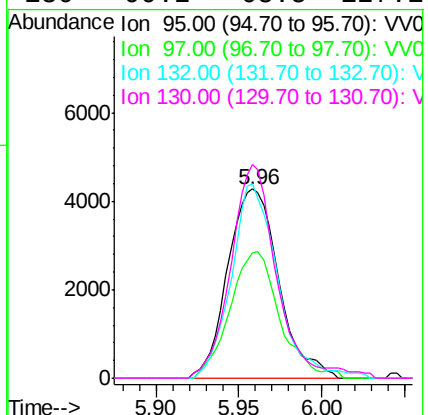
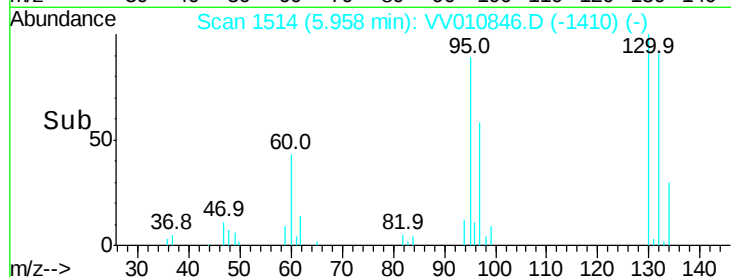
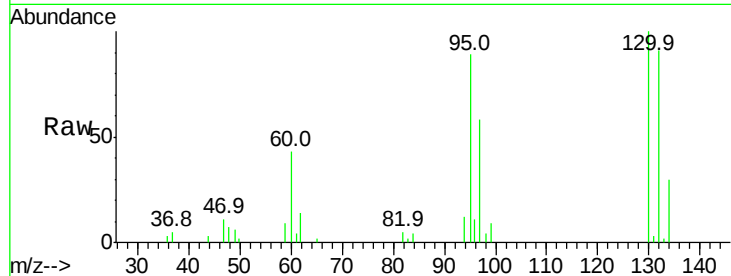
Ion Ratio Lower Upper

95 100

97 64.7 46.0 85.4

132 92.8 67.4 125.2

130 99.2 68.5 127.1



#36

Methylcyclohexane

Concen: 3.396 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

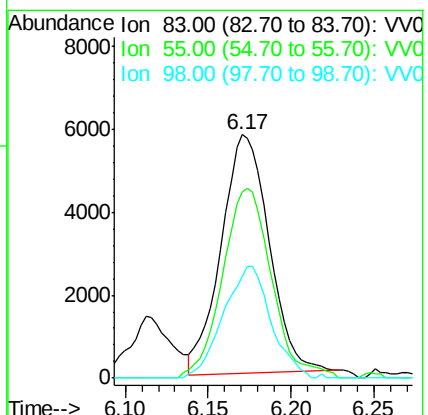
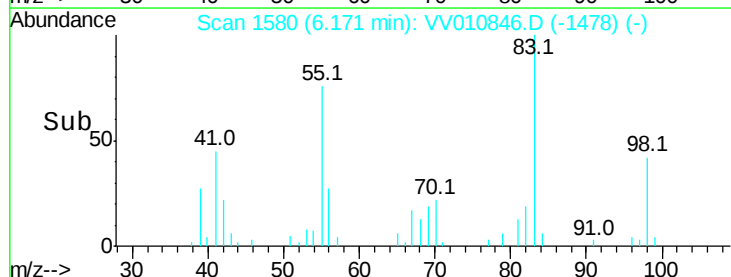
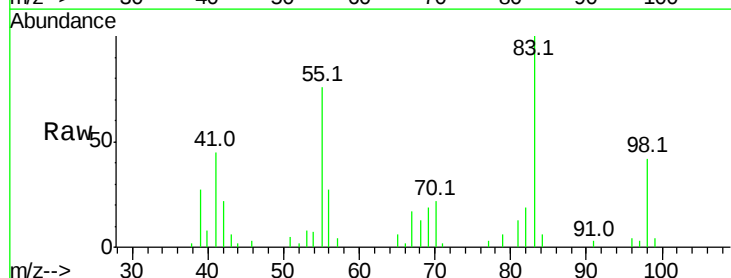
Tgt Ion: 83 Resp: 11612

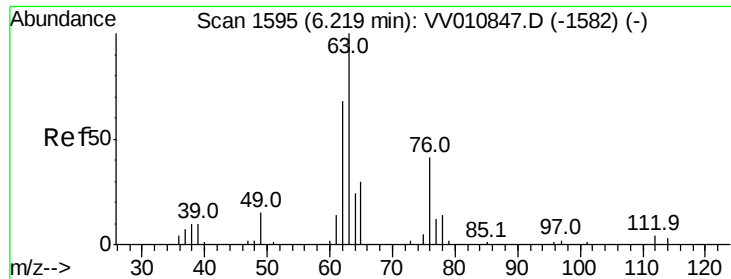
Ion Ratio Lower Upper

83 100

55 81.3 61.0 91.4

98 46.2 37.2 55.8

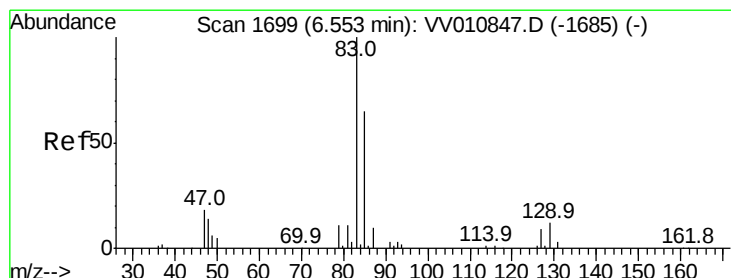
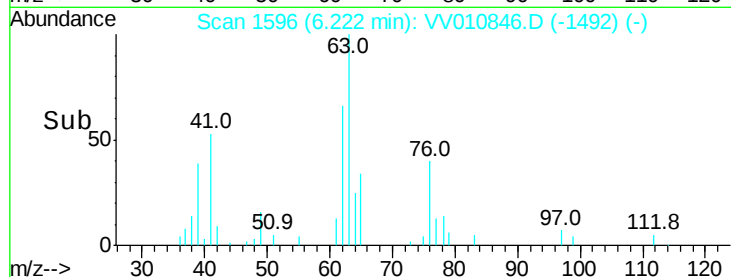
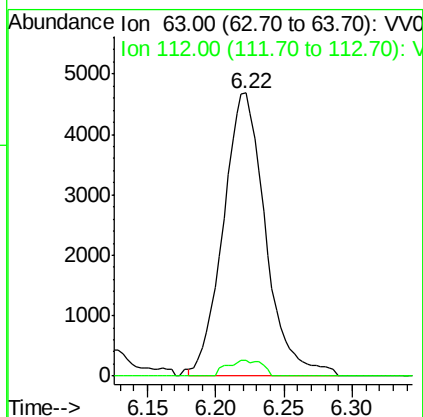
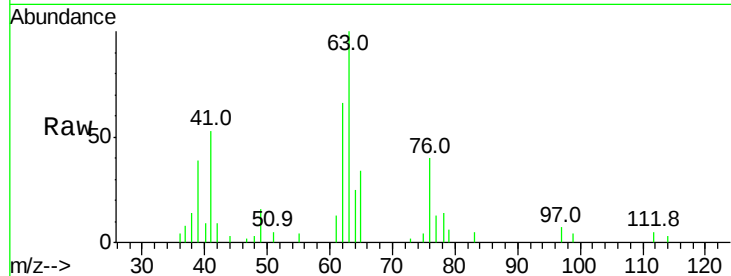




#40
 1,2-Dichloropropane
 Concen: 4.993 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

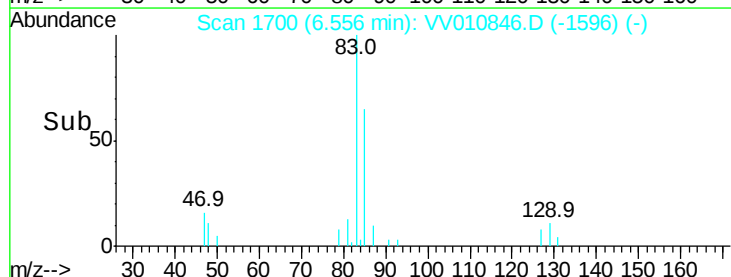
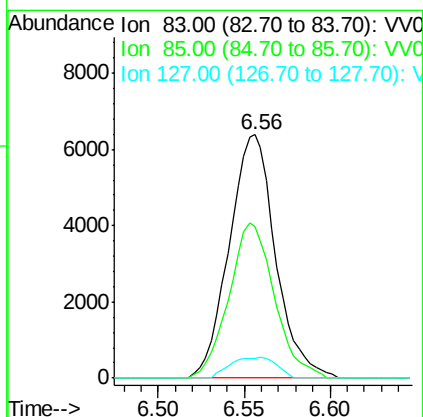
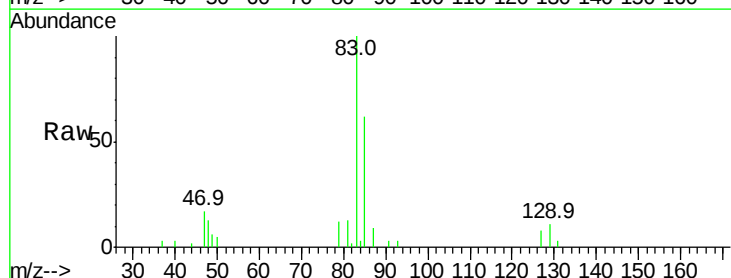
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

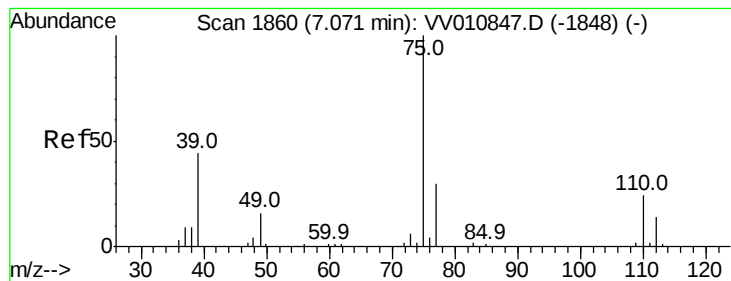
Tgt Ion: 63 Resp: 10116
 Ion Ratio Lower Upper
 63 100
 112 0.5 3.2 4.8#



#41
 Bromodichloromethane
 Concen: 4.303 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion: 83 Resp: 11980
 Ion Ratio Lower Upper
 83 100
 85 62.2 45.3 84.1
 127 8.1 7.4 11.2





#42

cis-1,3-Dichloropropene

Concen: 4.181 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

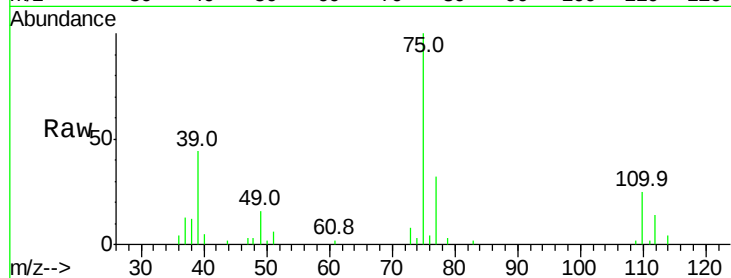
VSTD00563

Tgt Ion: 75 Resp: 13400

Ion Ratio Lower Upper

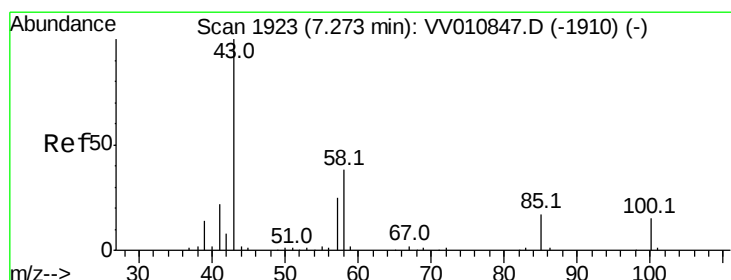
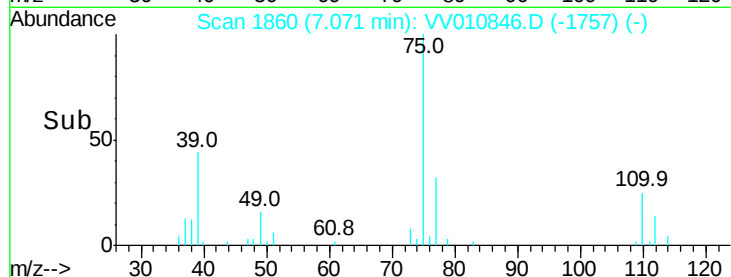
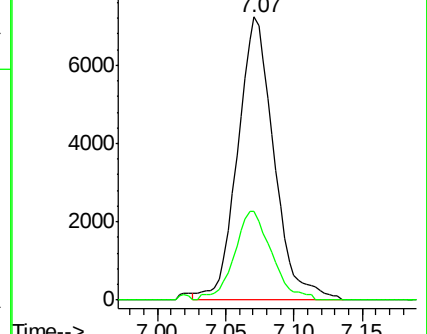
75 100

77 31.5 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#43

4-Methyl-2-pentanone

Concen: 7.769 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

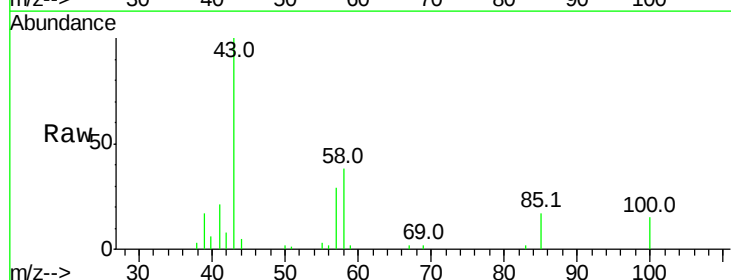
Tgt Ion: 43 Resp: 13250

Ion Ratio Lower Upper

43 100

58 36.3 30.0 45.0

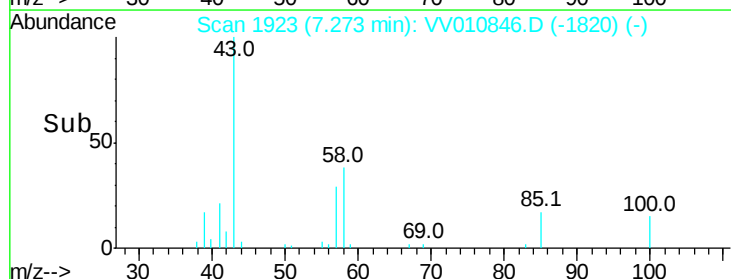
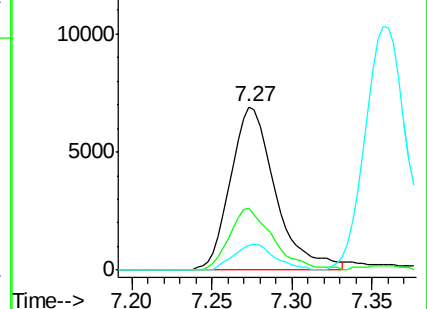
100 14.5 11.2 16.8

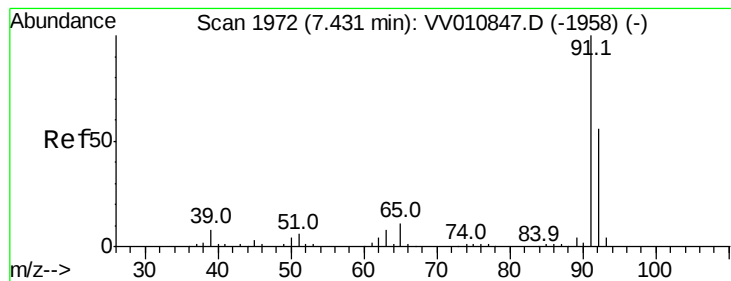


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#44

Toluene

Concen: 4.216 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

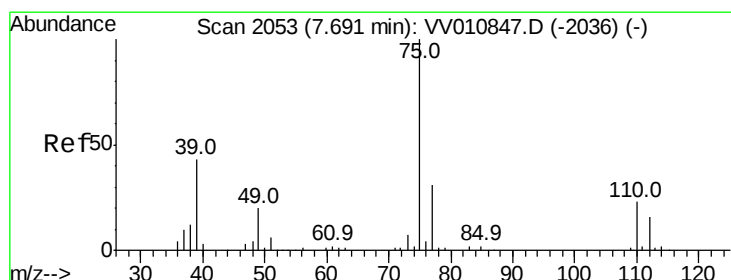
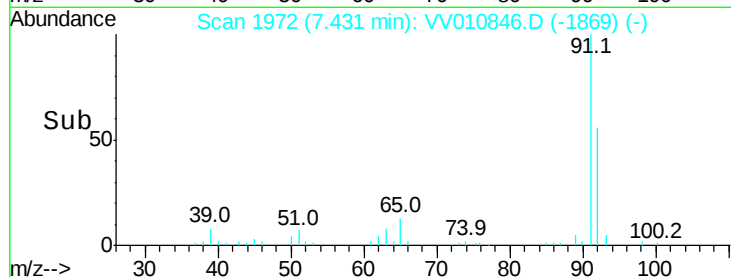
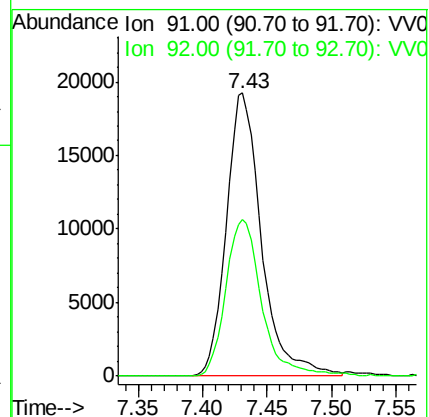
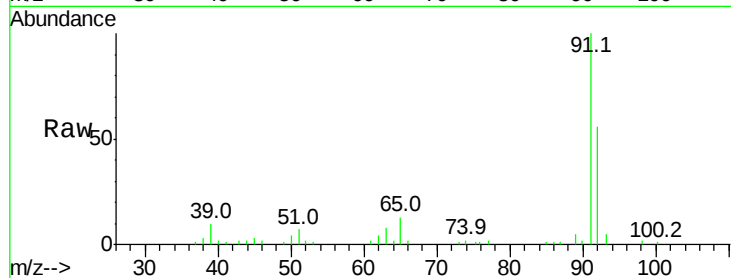
VSTD00563

Tgt Ion: 91 Resp: 36473

Ion Ratio Lower Upper

91 100

92 55.6 39.1 72.7



#45

trans-1,3-Dichloropropene

Concen: 3.943 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010846.D

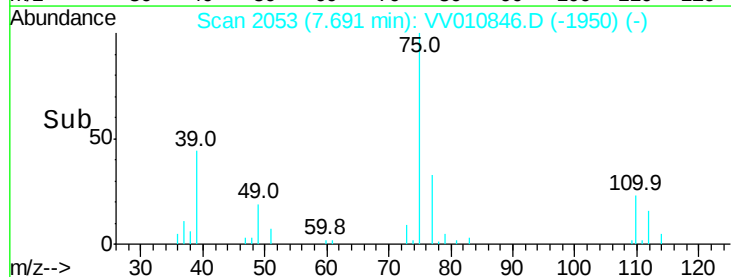
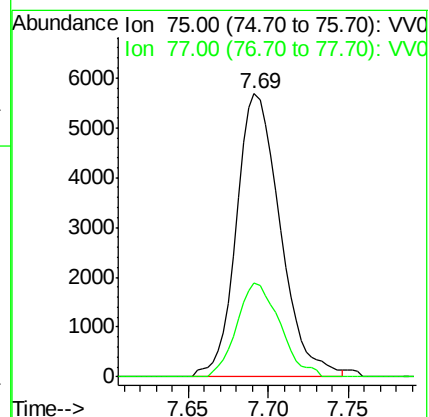
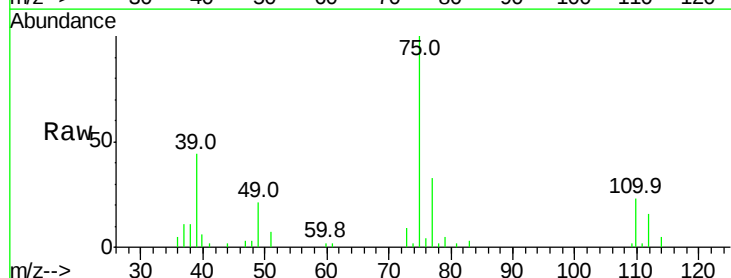
Acq: 13 May 2019 18:46

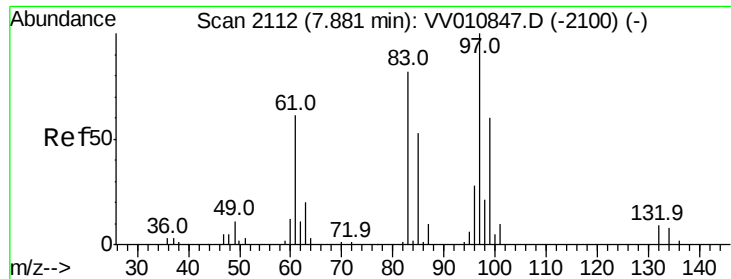
Tgt Ion: 75 Resp: 10642

Ion Ratio Lower Upper

75 100

77 33.2 21.6 40.0

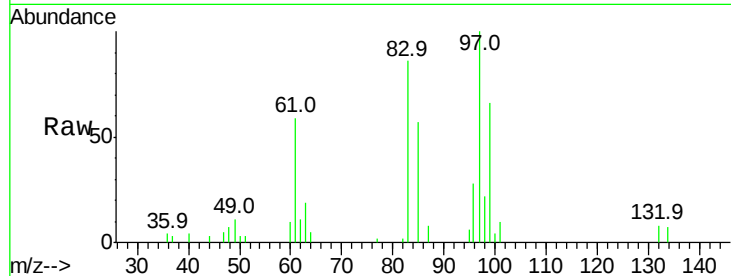




#46
 1,1,2-Trichloroethane
 Concen: 4.665 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tgt Ion:	97	Resp:	7766
Ion	Ratio	Lower	Upper
97	100		
83	85.6	57.2	106.2
85	56.7	37.4	69.4
99	65.8	42.0	78.0

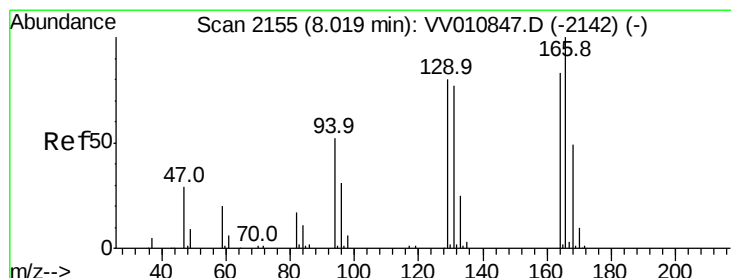
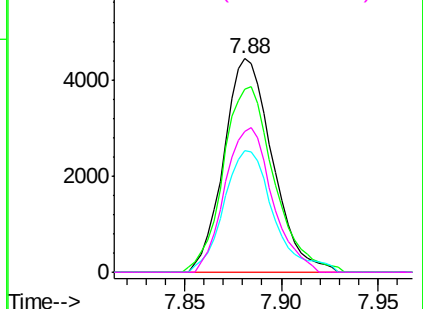
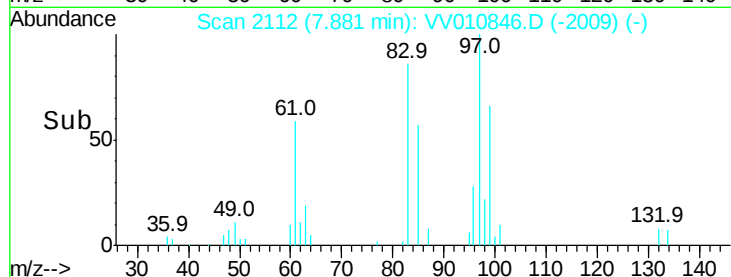


Abundance Ion 97.00 (96.70 to 97.70): VV010846.D (-2099) (-)

Ion 83.00 (82.70 to 83.70): VV010846.D (-2099) (-)

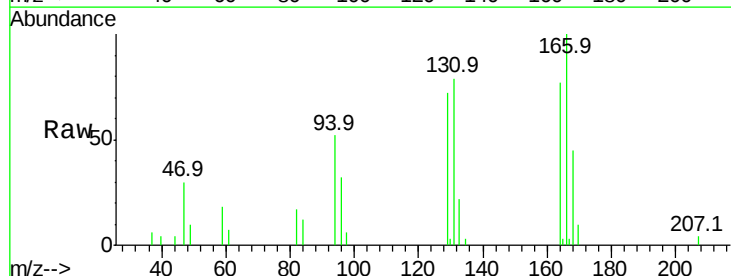
Ion 85.00 (84.70 to 85.70): VV010846.D (-2099) (-)

Ion 99.00 (98.70 to 99.70): VV010846.D (-2099) (-)



#47
 Tetrachloroethene
 Concen: 4.133 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion:	164	Resp:	6386
Ion	Ratio	Lower	Upper
164	100		
129	93.7	67.6	125.6
131	103.0	65.1	120.9
166	130.5	84.8	157.6

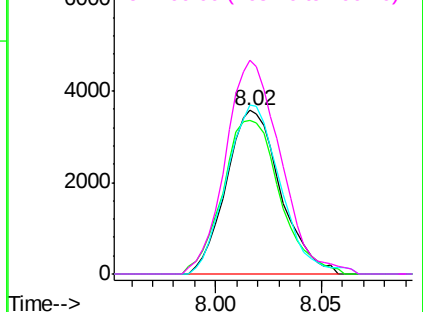
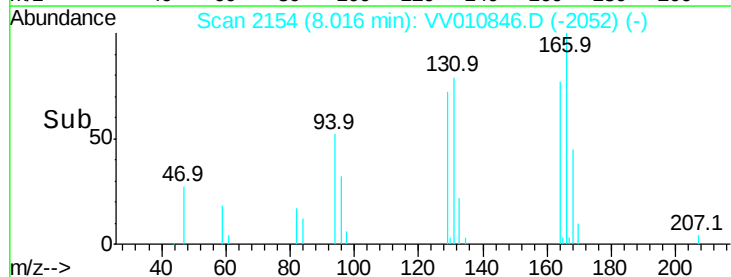


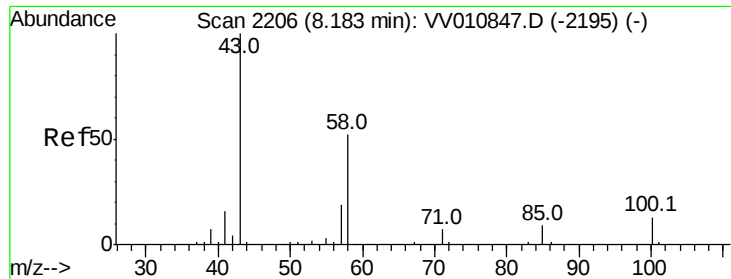
Abundance Ion 164.00 (163.70 to 164.70): VV010846.D (-2052) (-)

Ion 129.00 (128.70 to 129.70): VV010846.D (-2052) (-)

Ion 131.00 (130.70 to 131.70): VV010846.D (-2052) (-)

Ion 166.00 (165.70 to 166.70): VV010846.D (-2052) (-)





#49

2-Hexanone

Concen: 8.080 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tgt Ion: 43 Resp: 10478

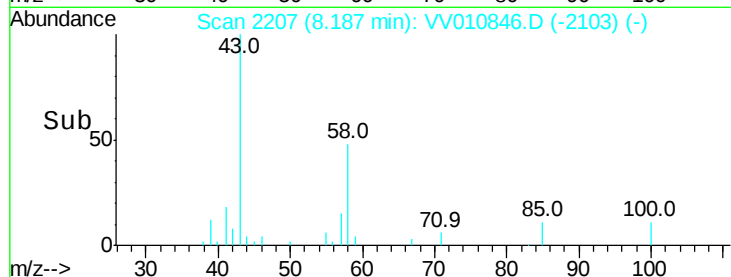
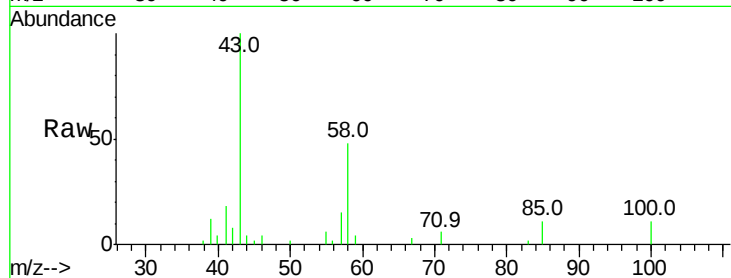
Ion Ratio Lower Upper

43 100

58 44.9 41.0 61.6

57 15.5 14.3 21.5

100 9.7 9.4 14.2

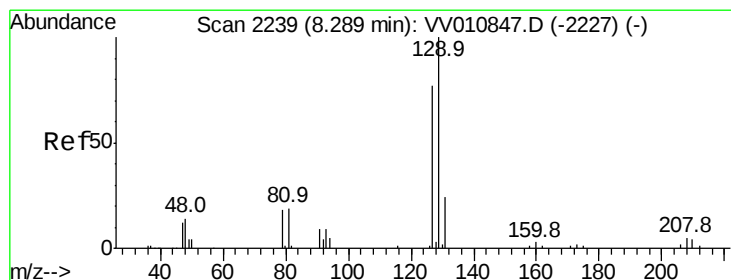
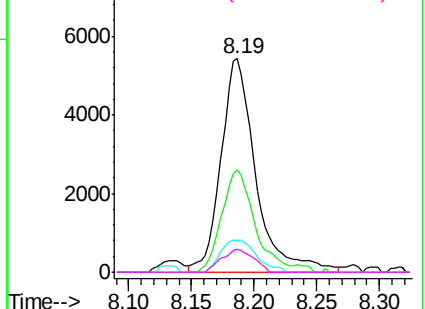


Abundance Ion 43.00 (42.70 to 43.70): VV010847.D (-2195) (-)

Ion 58.00 (57.70 to 58.70): VV010847.D (-2195) (-)

Ion 57.00 (56.70 to 57.70): VV010847.D (-2195) (-)

Ion 100.00 (99.70 to 100.70): VV010847.D (-2195) (-)



#50

Dibromochloromethane

Concen: 4.177 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV010846.D

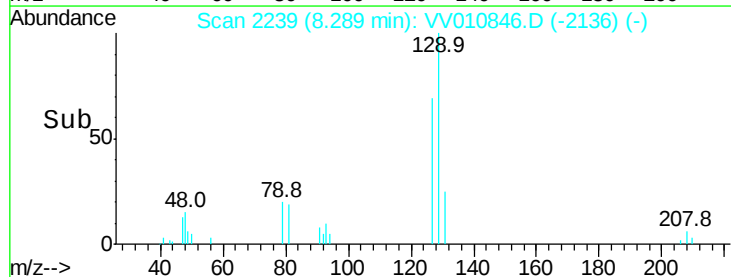
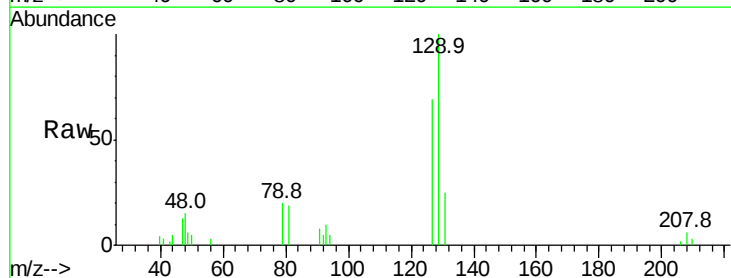
Acq: 13 May 2019 18:46

Tgt Ion: 129 Resp: 7995

Ion Ratio Lower Upper

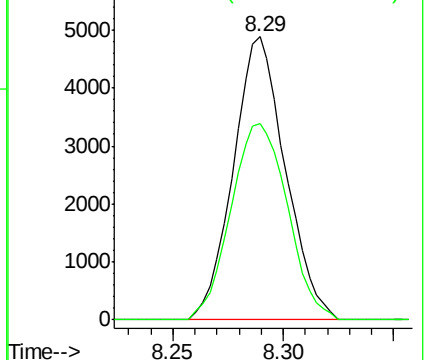
129 100

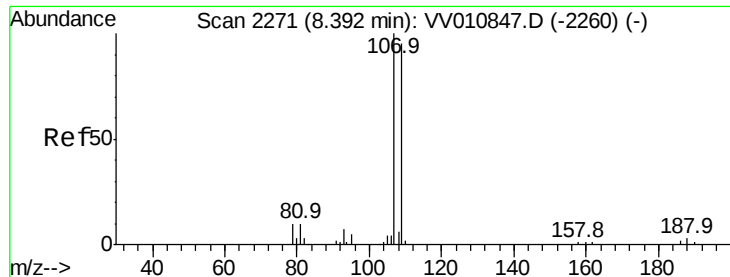
127 69.3 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): VV010847.D (-2227) (-)

Ion 127.00 (126.70 to 127.70): VV010847.D (-2227) (-)

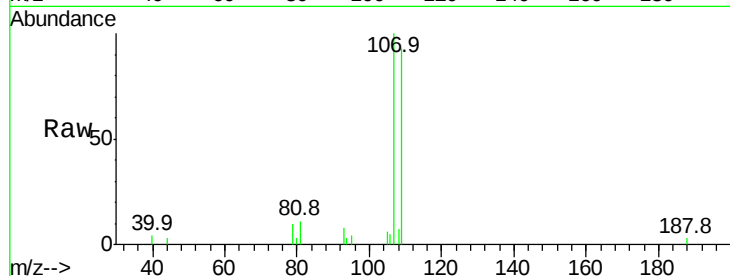




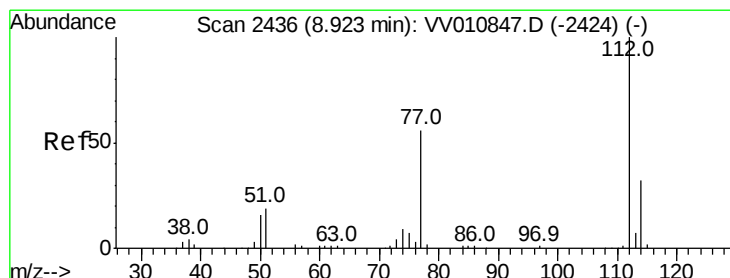
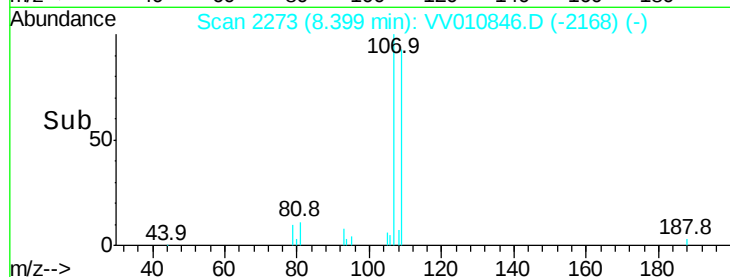
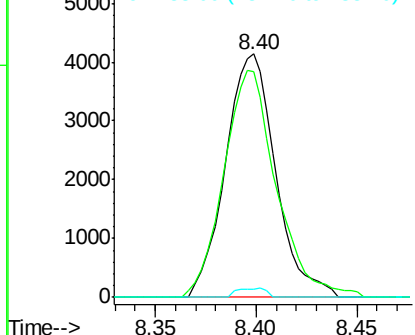
#51
 1,2-Dibromoethane
 Concen: 4.475 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.01 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00563

Tgt Ion:107 Resp: 7194
 Ion Ratio Lower Upper
 107 100
 109 92.9 66.7 123.9
 188 3.5 2.7 4.1

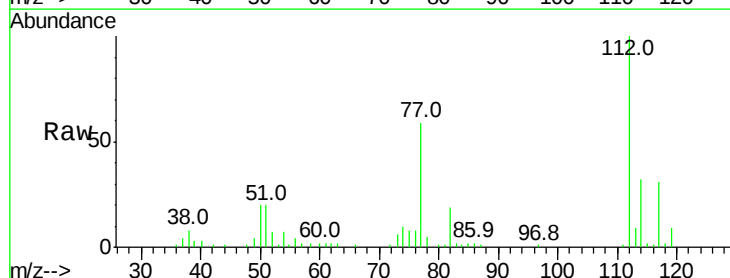


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

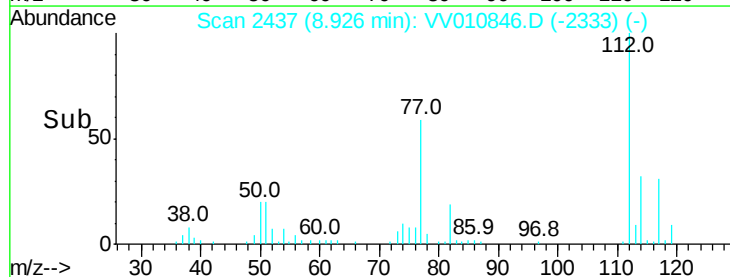
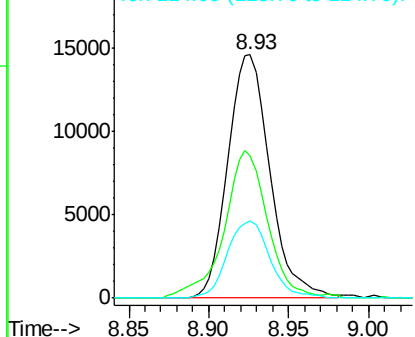


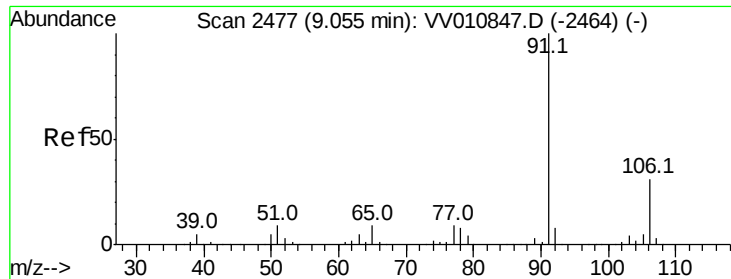
#52
 Chlorobenzene
 Concen: 4.643 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion:112 Resp: 26242
 Ion Ratio Lower Upper
 112 100
 77 58.7 45.4 68.0
 114 31.6 22.4 41.6



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 77.00 (76.70 to 77.70): VV0
 Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 3.910 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampled :

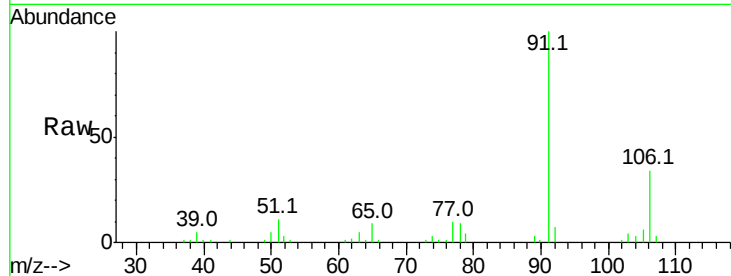
VSTD00563

Tgt Ion: 91 Resp: 39221

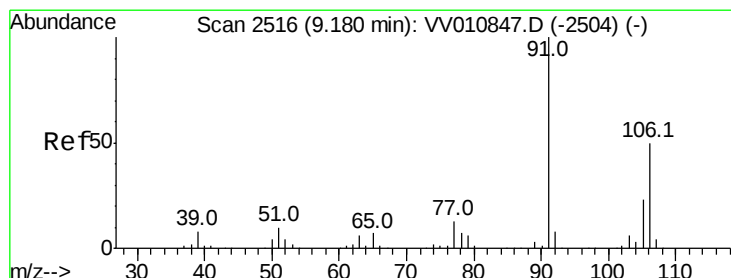
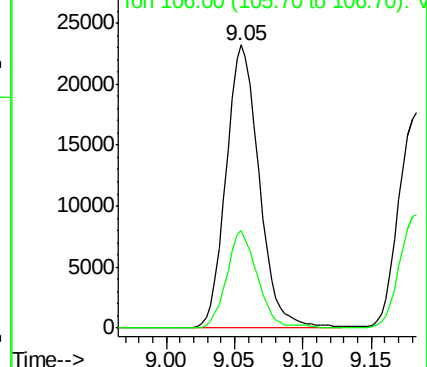
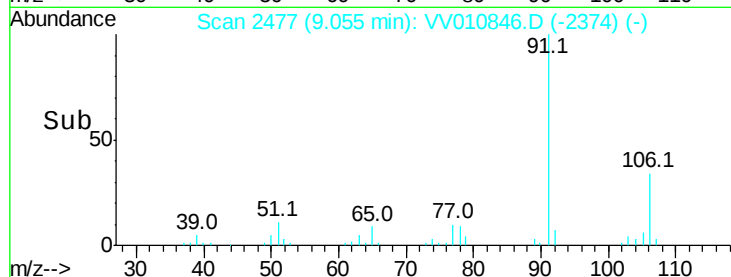
Ion Ratio Lower Upper

91 100

106 34.4 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV010846.D (-2374) (-)



#54

m,p-Xylene

Concen: 4.061 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010846.D

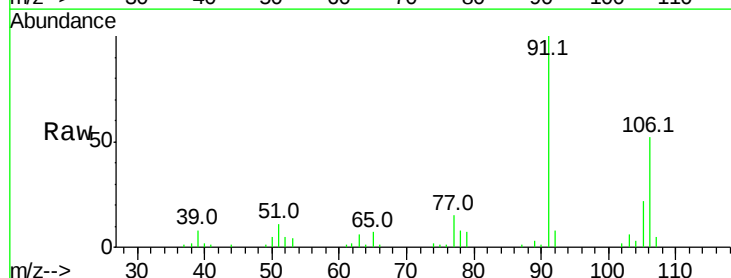
Acq: 13 May 2019 18:46

Tgt Ion: 106 Resp: 15220

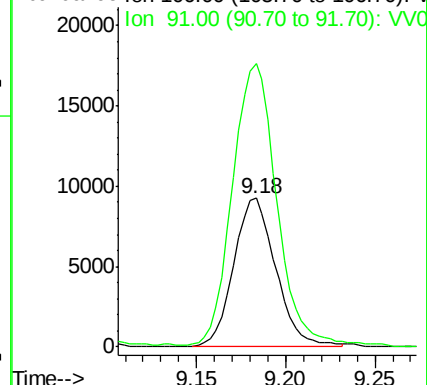
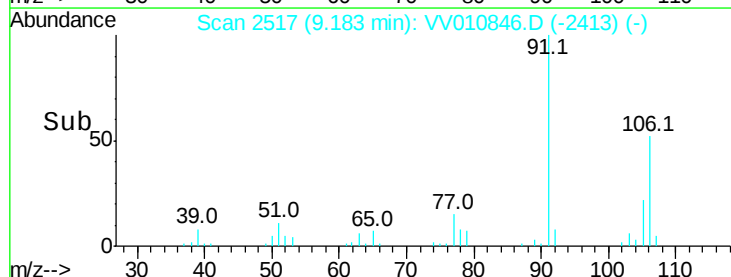
Ion Ratio Lower Upper

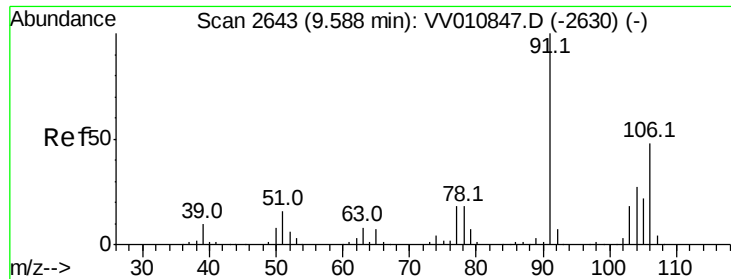
106 100

91 190.7 140.6 261.0



Abundance Ion 106.00 (105.70 to 106.70): VV010846.D (-2413) (-)

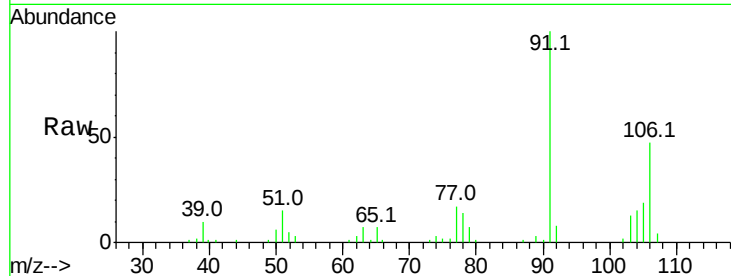




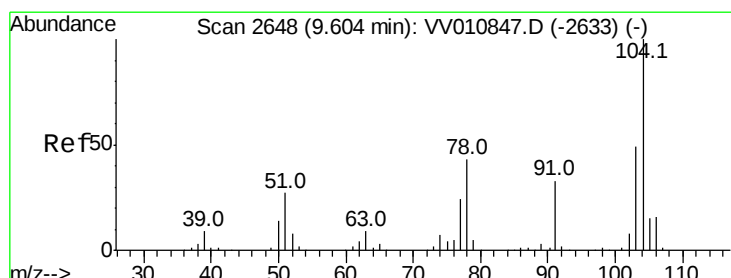
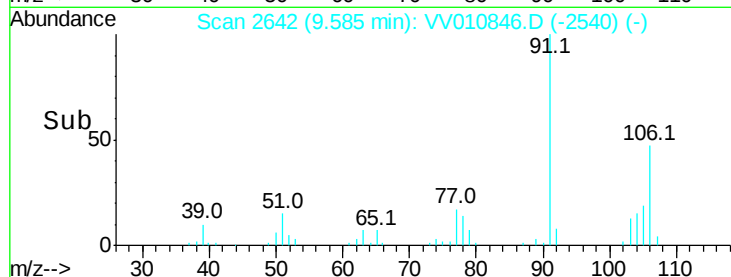
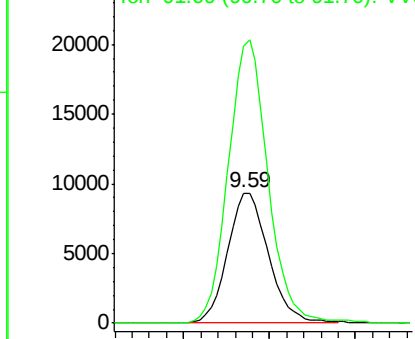
#55
o-xylene
Concen: 4.157 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV010846.D
Acq: 13 May 2019 18:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tgt Ion:106 Resp: 15452
Ion Ratio Lower Upper
106 100
91 213.6 146.9 272.9

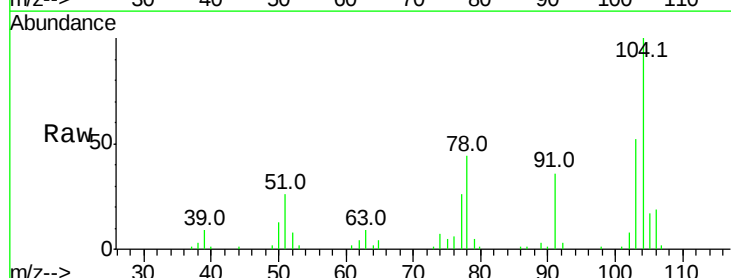


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

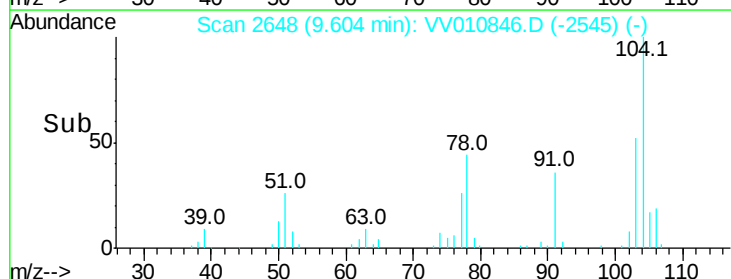
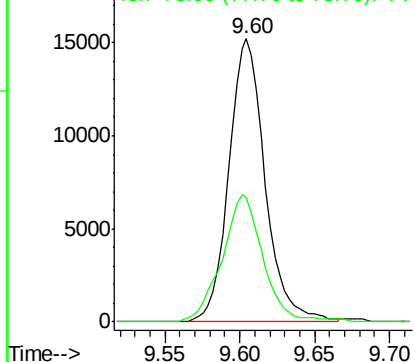


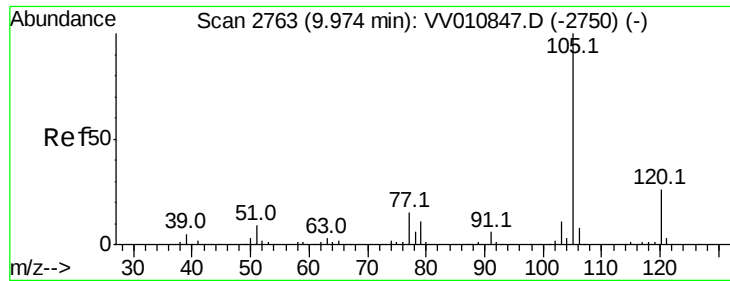
#56
Styrene
Concen: 4.076 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV010846.D
Acq: 13 May 2019 18:46

Tgt Ion:104 Resp: 25628
Ion Ratio Lower Upper
104 100
78 43.9 30.0 55.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 3.825 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

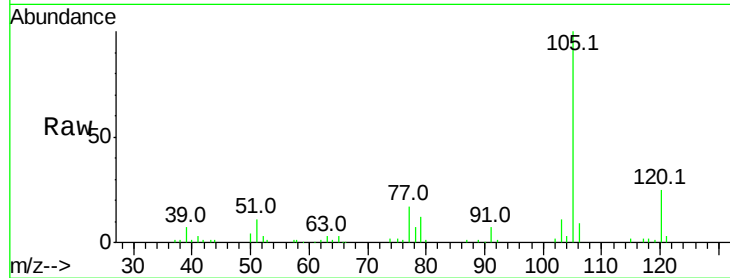
Tgt Ion:105 Resp: 37939

Ion Ratio Lower Upper

105 100

120 25.5 21.0 31.4

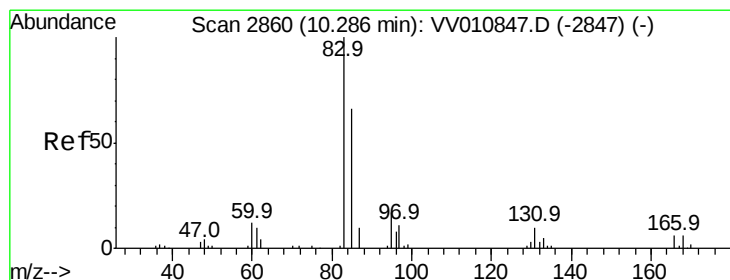
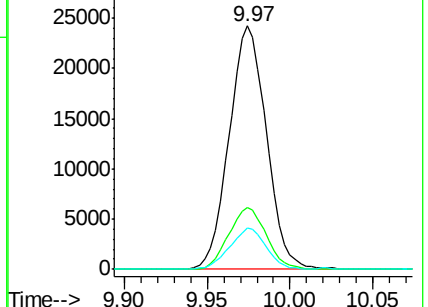
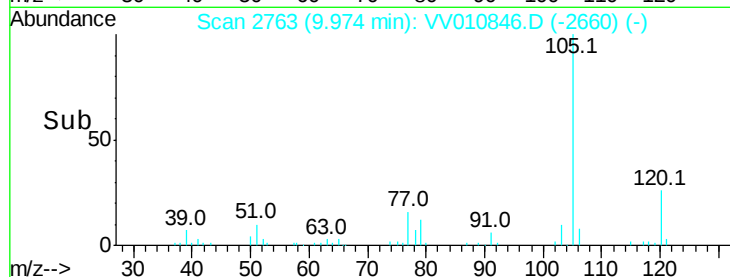
77 16.5 12.2 18.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.758 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

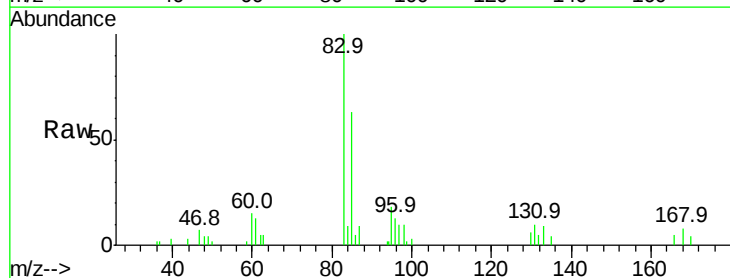
Tgt Ion: 83 Resp: 10377

Ion Ratio Lower Upper

83 100

85 63.1 46.7 86.7

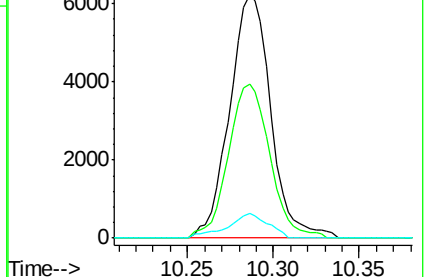
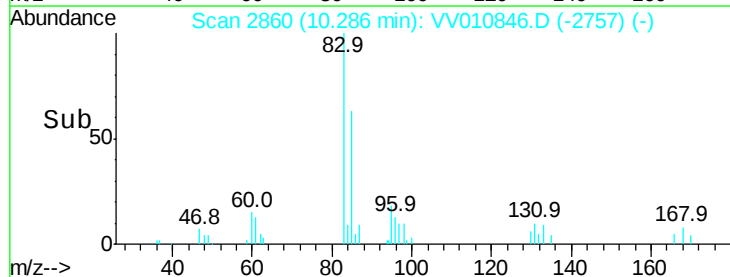
131 10.1 8.5 12.7

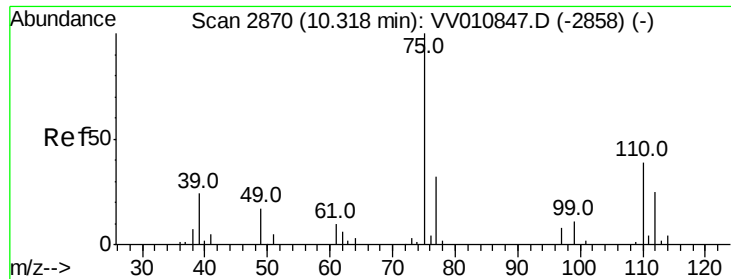


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

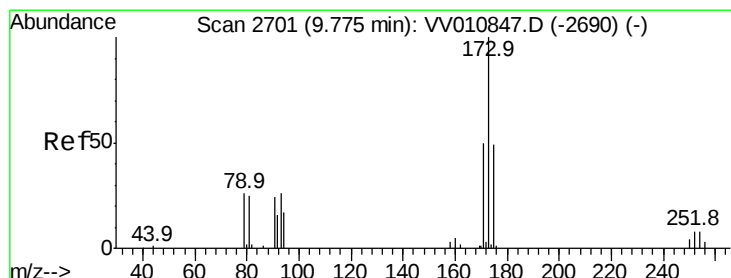
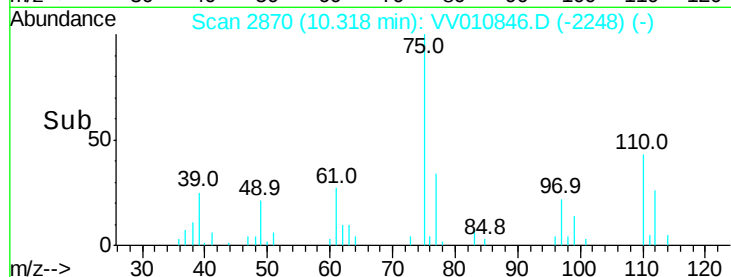
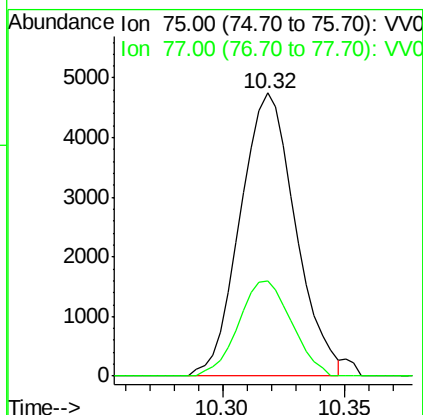
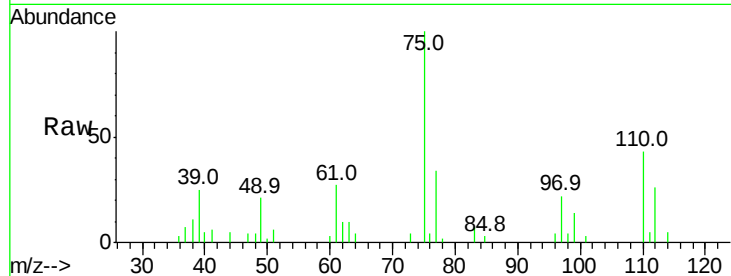




#59
 1,2,3-Trichloropropane
 Concen: 4.387 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

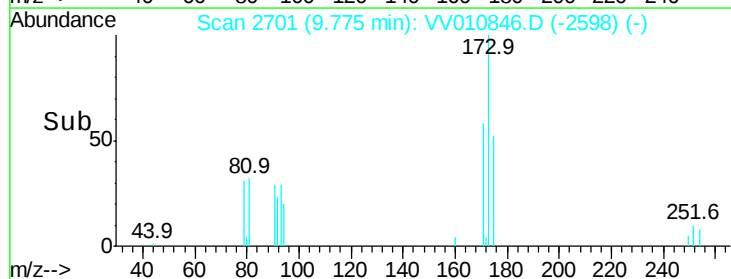
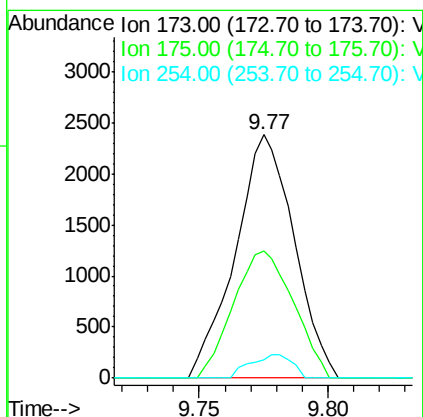
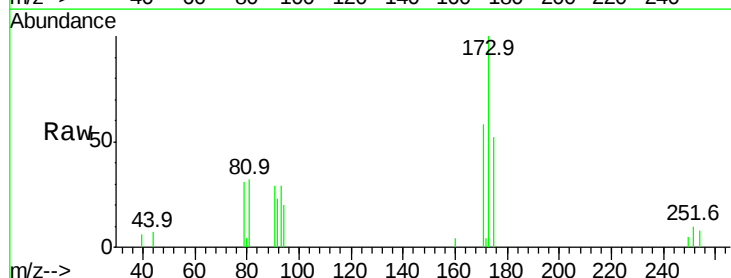
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

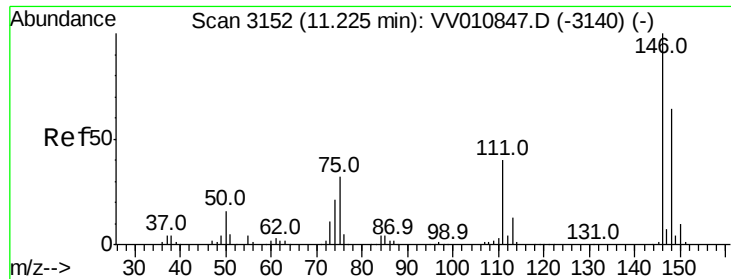
Tgt Ion: 75 Resp: 7467
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.4 39.6



#62
 Bromoform
 Concen: 3.708 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion: 173 Resp: 3789
 Ion Ratio Lower Upper
 173 100
 175 53.4 38.1 57.1
 254 6.9 5.4 8.2

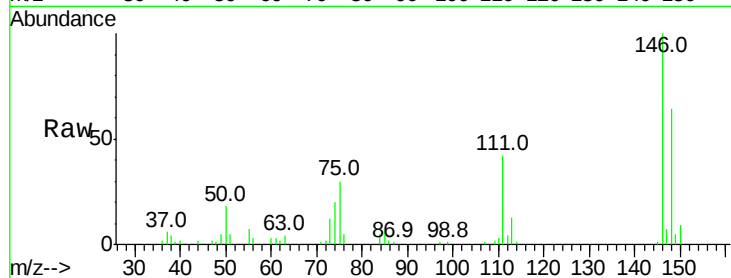




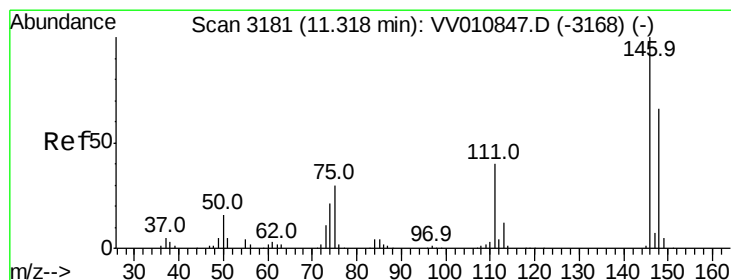
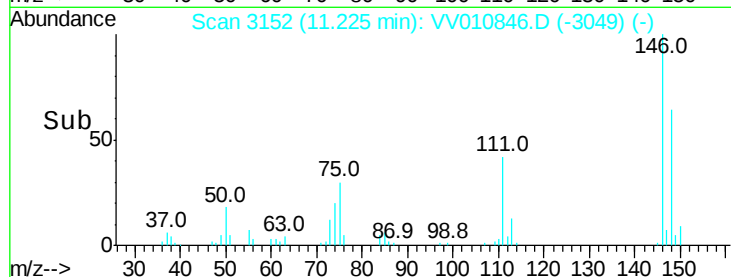
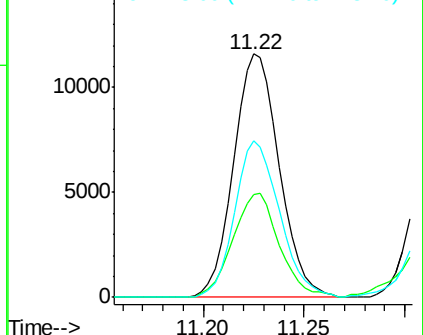
#63
 1,3-Dichlorobenzene
 Concen: 4.405 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tgt Ion:146 Resp: 18401
 Ion Ratio Lower Upper
 146 100
 111 42.1 28.1 52.1
 148 64.2 44.4 82.5

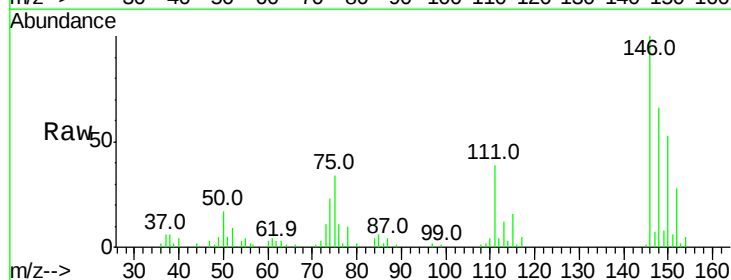


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

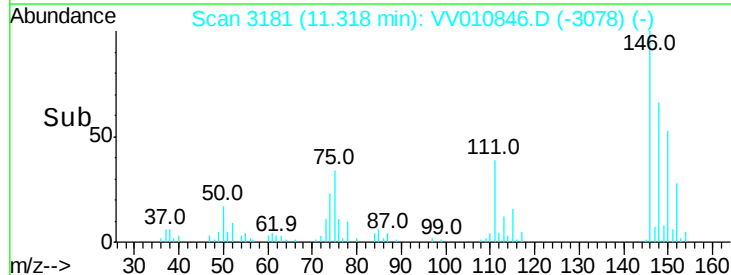
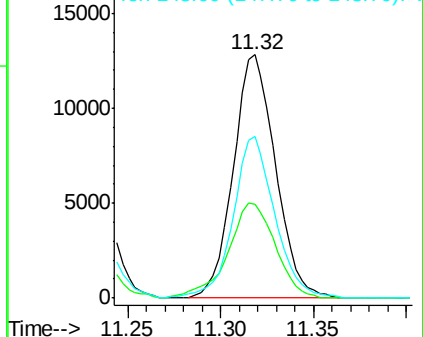


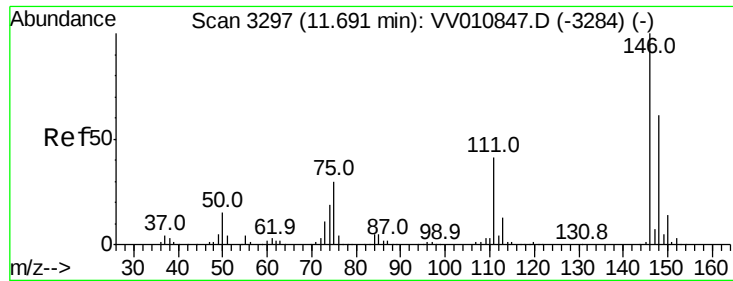
#64
 1,4-Dichlorobenzene
 Concen: 4.749 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion:146 Resp: 20263
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.9 51.7
 148 66.3 45.9 85.3



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: 4.829 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

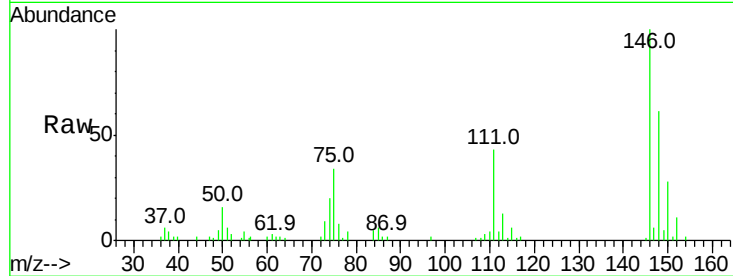
Tgt Ion:146 Resp: 19592

Ion Ratio Lower Upper

146 100

111 42.5 33.4 50.0

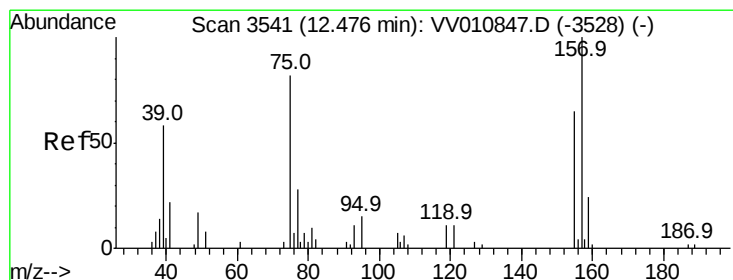
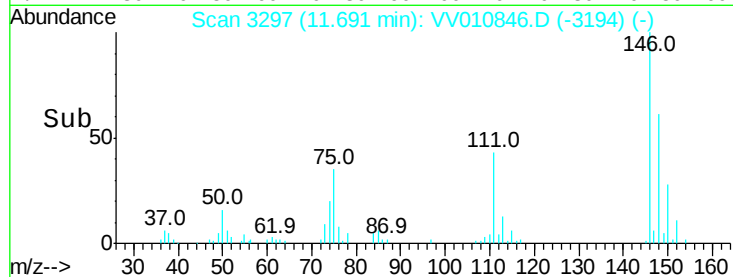
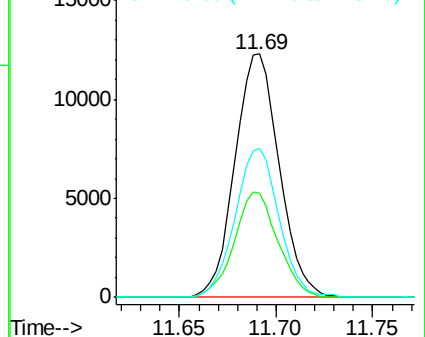
148 61.1 49.1 73.7



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: 4.215 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

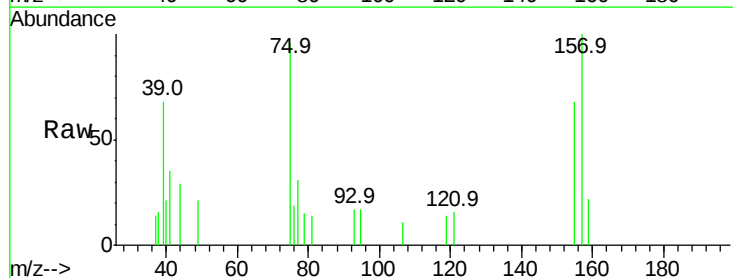
Tgt Ion: 75 Resp: 1587

Ion Ratio Lower Upper

75 100

157 104.6 97.6 146.4

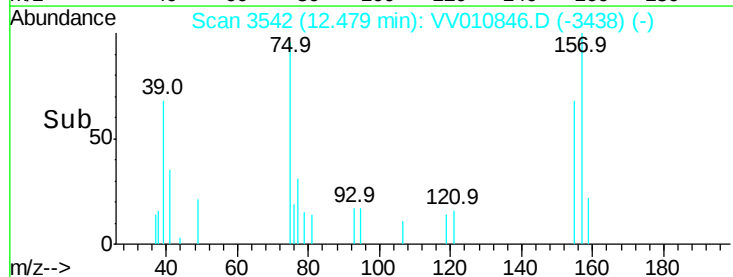
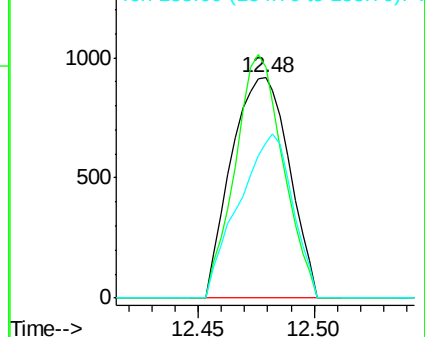
155 70.7 63.6 95.4

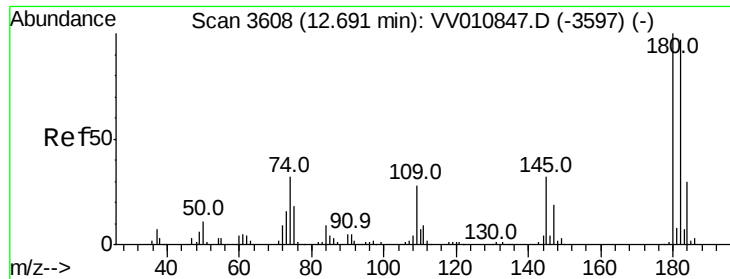


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

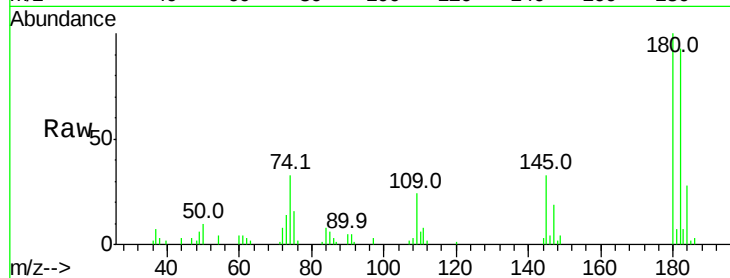




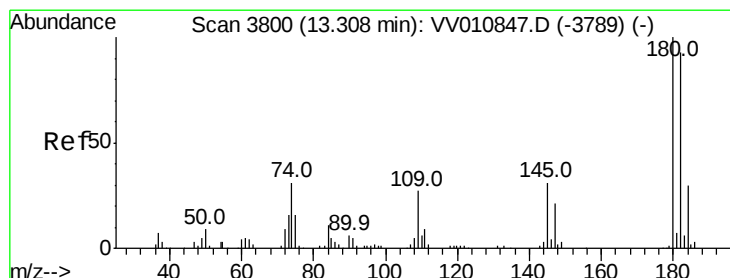
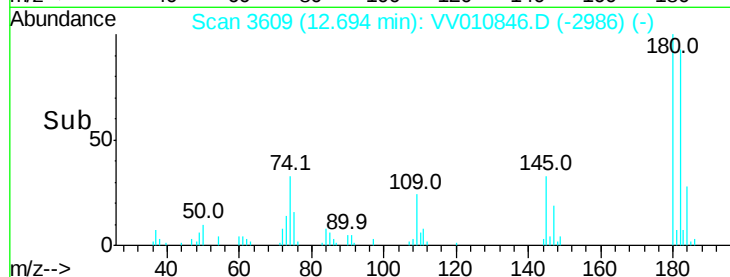
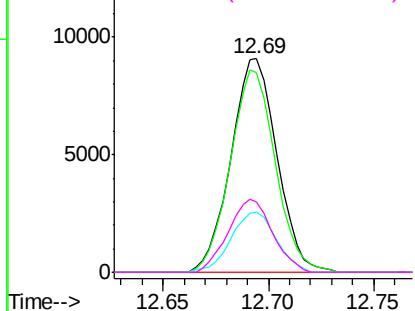
#67
 1,3,5-Trichlorobenzene
 Concen: 4.576 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tgt Ion:180 Resp: 13770
 Ion Ratio Lower Upper
 180 100
 182 92.6 75.9 113.9
 184 27.7 24.1 36.1
 145 32.8 25.4 38.0

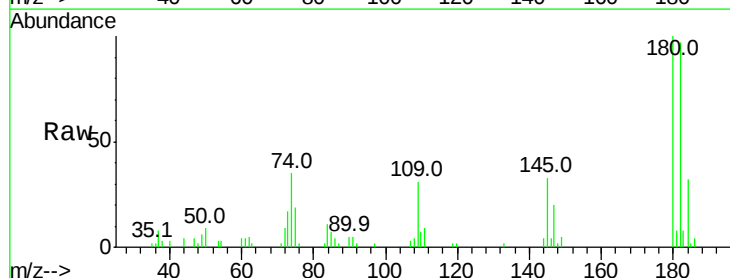


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

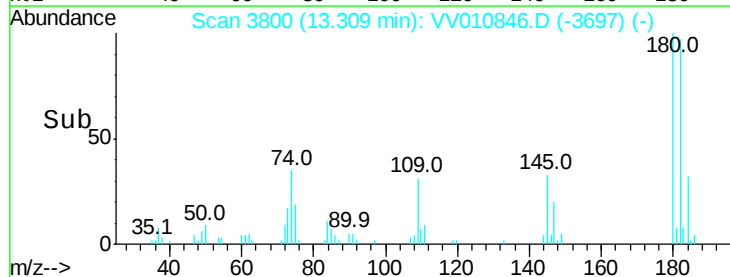
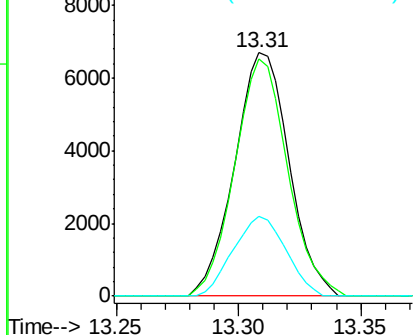


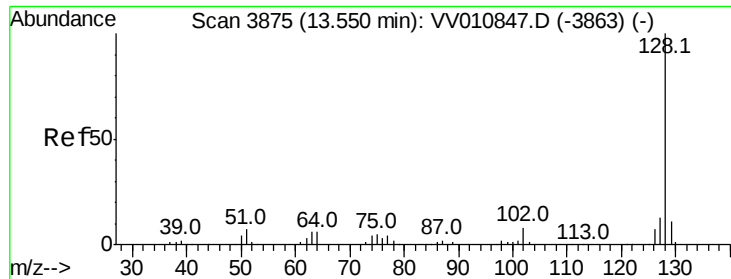
#68
 1,2,4-trichlorobenzene
 Concen: 4.457 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010846.D
 Acq: 13 May 2019 18:46

Tgt Ion:180 Resp: 10376
 Ion Ratio Lower Upper
 180 100
 182 94.9 74.2 111.2
 145 31.7 25.4 38.0



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





#69

Naphthalene

Concen: 4.013 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

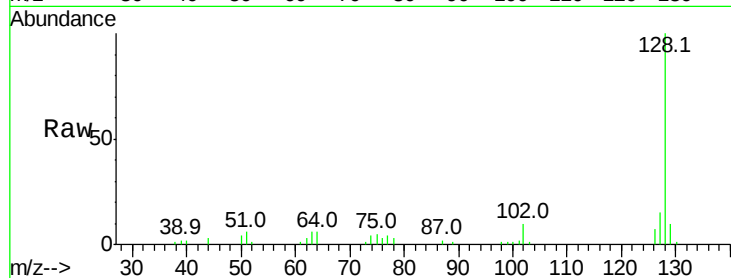
Tgt Ion:128 Resp: 20000

Ion Ratio Lower Upper

128 100

129 10.4 8.7 13.1

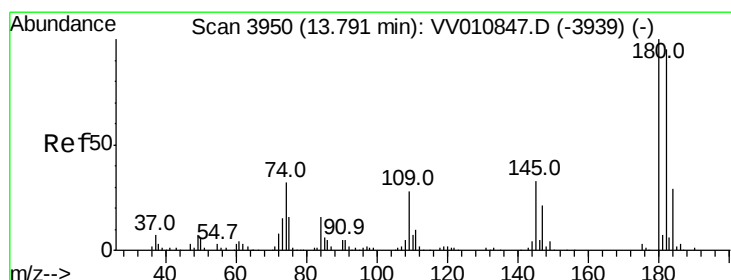
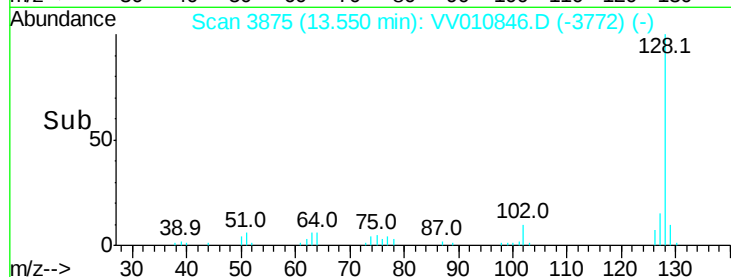
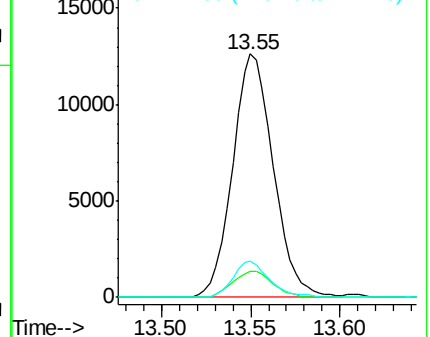
127 13.3 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.678 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010846.D

Acq: 13 May 2019 18:46

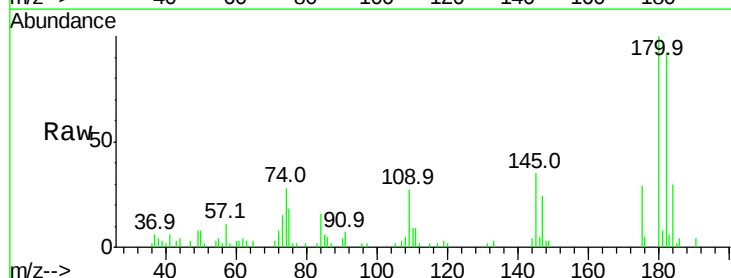
Tgt Ion:180 Resp: 10217

Ion Ratio Lower Upper

180 100

182 94.1 75.8 113.6

145 34.3 26.8 40.2



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

