

Data File : VV010954.D
Acq On : 20 May 2019 12:14
Operator : SY/MD
Sample : VSTD2.565
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Quant Time: May 20 13:54:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Mon May 20 13:51:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	140231	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	134882	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	61133	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	4495	2.52	ug/L	0.00
7) Chloroethane-d5	1.56	69	3058	2.63	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	8843	2.62	ug/L	0.00
20) 2-Butanone-d5	4.04	46	68	0.12	ug/L	0.10
24) Chloroform-d	4.40	84	10098	2.49	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	5552	2.41	ug/L	0.00
29) Benzene-d6	5.09	84	20038	2.68	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.11	67	6812	2.86	ug/L	0.00
37) Toluene-d8	7.36	98	17097	2.38	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	2209	2.13	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	1957	4.34	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	6197	2.81	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	6861	2.69	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	5746	3.693 ug/L	95
3) Chloromethane	1.25	50	4920	2.641 ug/L	100
5) Vinyl chloride	1.32	62	4954	2.470 ug/L #	76
6) Bromomethane	1.51	94	2135	4.585 ug/L	99
8) Chloroethane	1.58	64	2313	2.229 ug/L #	77
9) Trichlorofluoromethane	1.76	101	7995	2.784 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4495	2.595 ug/L	96
12) 1,1-Dichloroethene	2.13	96	3794	2.348 ug/L #	76
13) Acetone	2.19	43	3182	5.558 ug/L	99
14) Carbon disulfide	2.31	76	11415	2.345 ug/L #	93
15) Methyl Acetate	2.46	43	2658	2.229 ug/L	99
16) Methylene chloride	2.53	84	6923	3.059 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	11737	2.224 ug/L	97
18) trans-1,2-Dichloroethene	2.78	96	4915	2.553 ug/L	91
19) 1,1-Dichloroethane	3.22	63	8771	2.354 ug/L	96
21) 2-Butanone	4.04	43	2934	3.970 ug/L #	49
22) cis-1,2-Dichloroethene	3.96	96	5450	2.419 ug/L	93
23) Bromochloromethane	4.30	128	2338	2.228 ug/L	95
25) Chloroform	4.42	83	9732	2.407 ug/L	97
27) 1,2-Dichloroethane	5.18	62	6188	2.194 ug/L #	91
30) Cyclohexane	4.72	56	6949	2.680 ug/L	94
31) 1,1,1-Trichloroethane	4.65	97	7484	2.555 ug/L	95
32) Carbon tetrachloride	4.87	117	7065	2.826 ug/L	98
34) Benzene	5.14	78	18707	2.380 ug/L	100
35) Trichloroethene	5.96	95	5501	2.700 ug/L	99
36) Methylcyclohexane	6.17	83	7005	2.471 ug/L	88
40) 1,2-Dichloropropane	6.22	63	5084	2.374 ug/L #	89
41) Bromodichloromethane	6.55	83	6618	2.410 ug/L	88
42) cis-1,3-Dichloropropene	7.07	75	6425	2.057 ug/L	98
43) 4-Methyl-2-pentanone	7.28	43	6449	4.265 ug/L #	87

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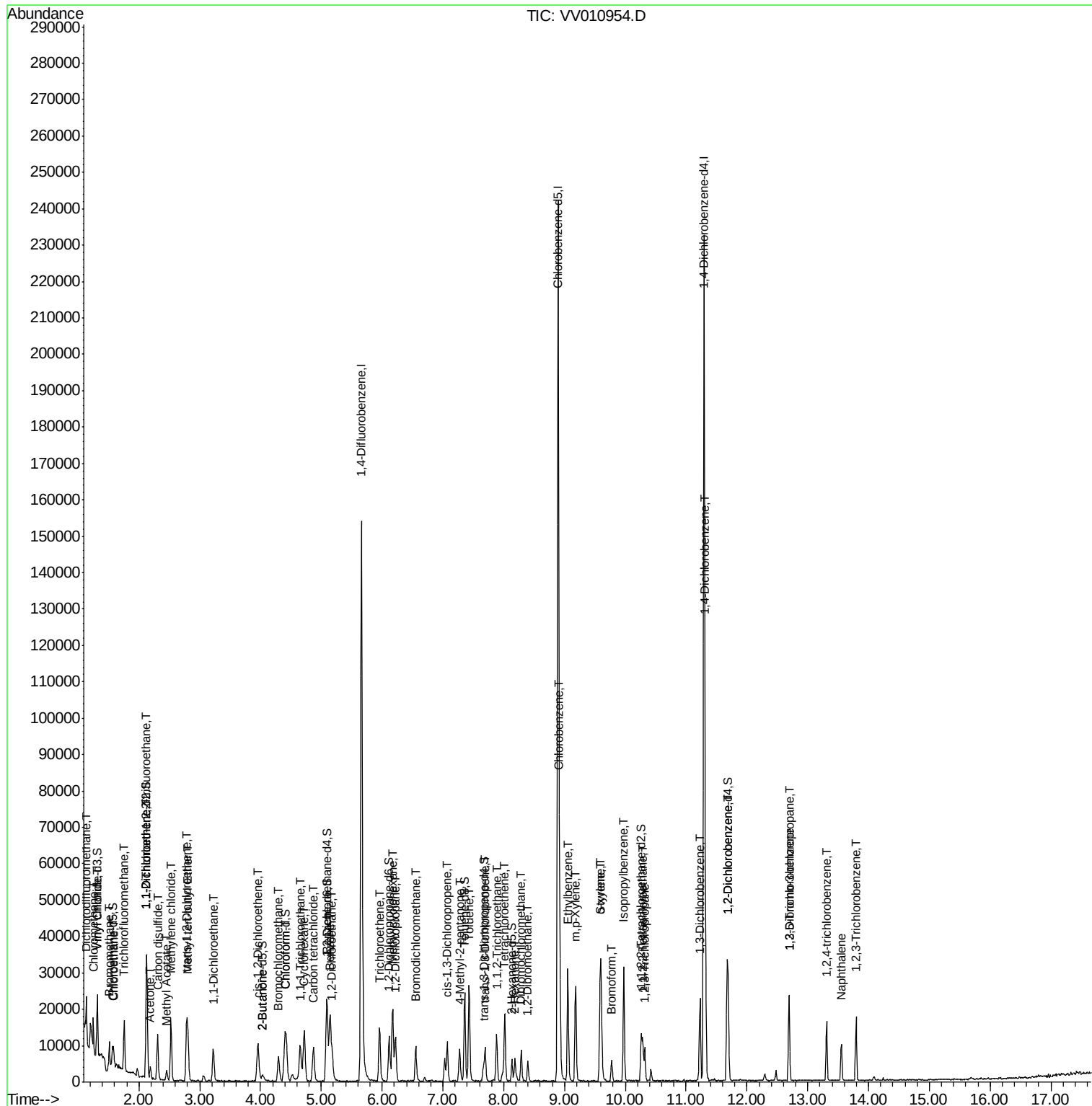
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	19406	2.221	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	5386	2.040	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	3985	2.311	ug/L	95
47) Tetrachloroethene	8.02	164	4186	2.780	ug/L	97
49) 2-Hexanone	8.18	43	3844	3.442	ug/L #	92
50) Dibromochloromethane	8.29	129	4449	2.319	ug/L	98
51) 1,2-Dibromoethane	8.40	107	3660	2.253	ug/L #	95
52) Chlorobenzene	8.92	112	14434	2.425	ug/L	99
53) Ethylbenzene	9.05	91	20804	2.173	ug/L	92
54) m,p-Xylene	9.18	106	8095	2.146	ug/L	95
55) o-xylene	9.59	106	7103	1.917	ug/L	92
56) Styrene	9.60	104	12018	1.891	ug/L	97
57) Isopropylbenzene	9.97	105	19828	2.137	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.29	83	5016	2.202	ug/L #	83
59) 1,2,3-Trichloropropane	10.32	75	3997	2.422	ug/L #	77
62) Bromoform	9.77	173	2618	2.744	ug/L #	91
63) 1,3-Dichlorobenzene	11.23	146	10131	2.399	ug/L	94
64) 1,4-Dichlorobenzene	11.32	146	10547	2.410	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	9558	2.268	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.69	75	1076	3.409	ug/L #	1
67) 1,3,5-Trichlorobenzene	12.69	180	7081	2.300	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	4956	1.994	ug/L	99
69) Naphthalene	13.55	128	7502	1.441	ug/L	97
70) 1,2,3-Trichlorobenzene	13.80	180	4938	2.087	ug/L	95

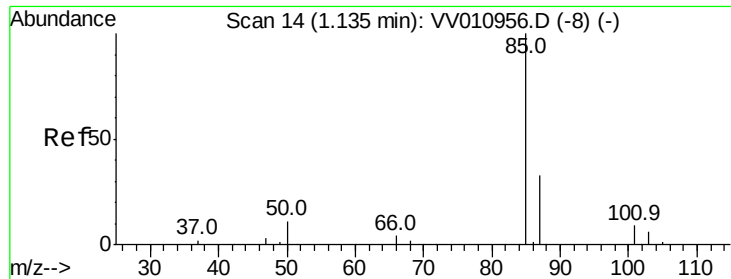
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 3.693 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

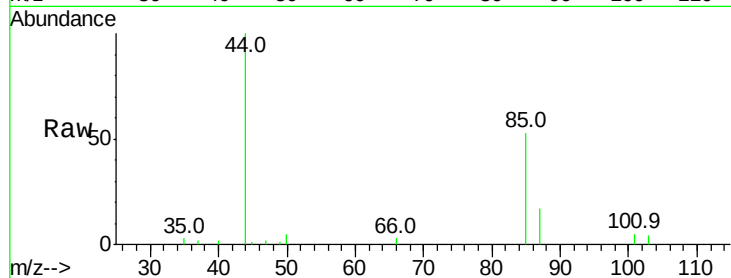
VSTD2.565

Tgt Ion: 85 Resp: 5746

Ion Ratio Lower Upper

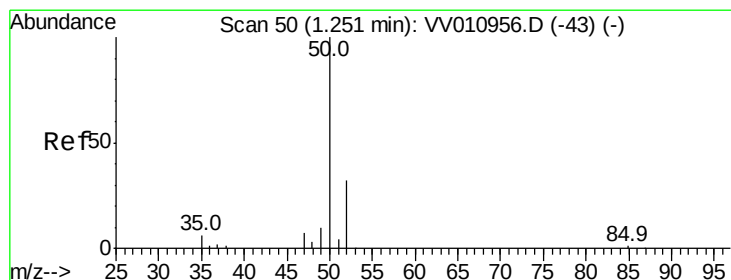
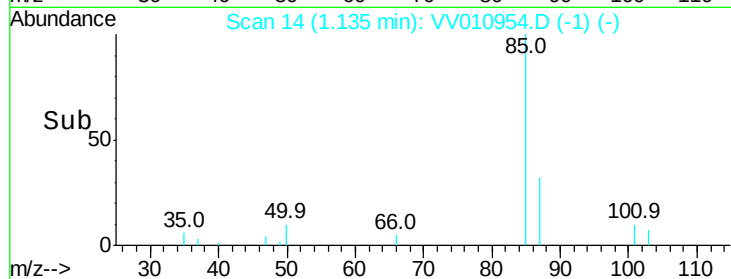
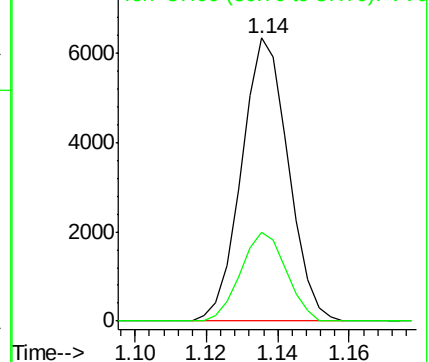
85 100

87 30.4 23.2 43.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.641 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV010954.D

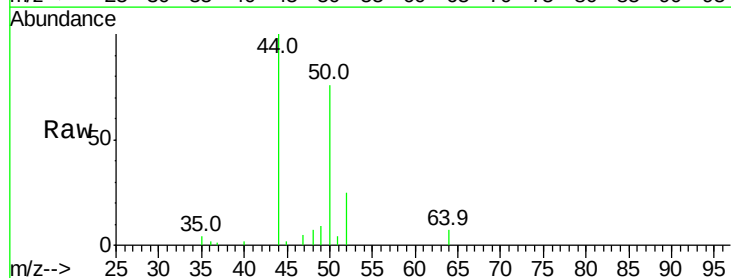
Acq: 20 May 2019 12:14

Tgt Ion: 50 Resp: 4920

Ion Ratio Lower Upper

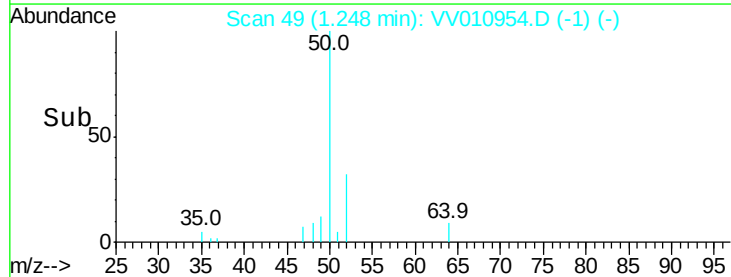
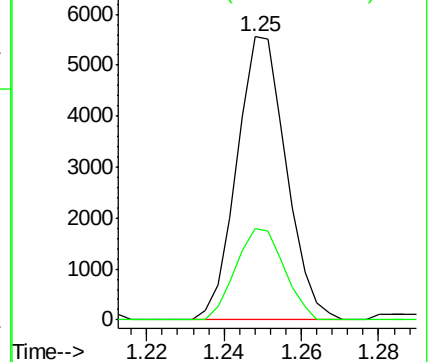
50 100

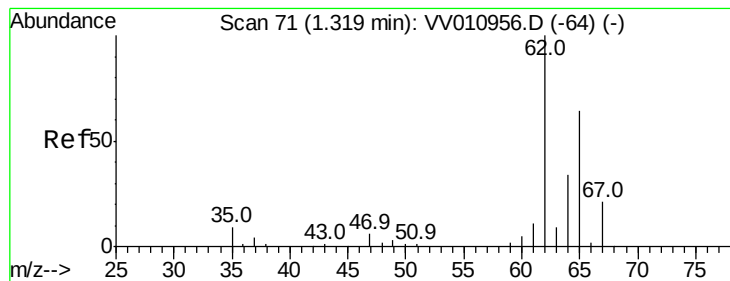
52 32.4 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.470 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampled :

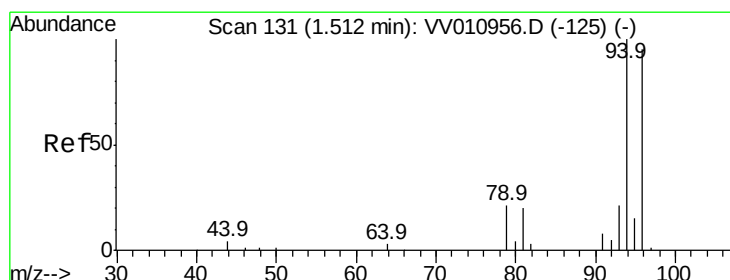
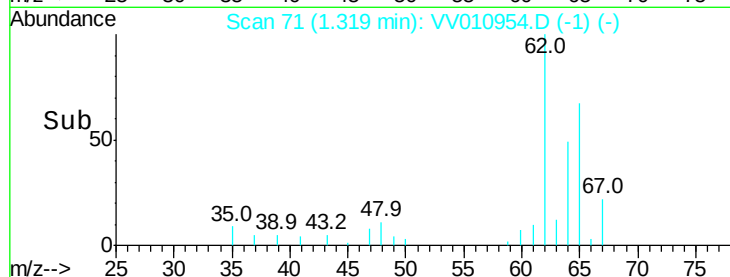
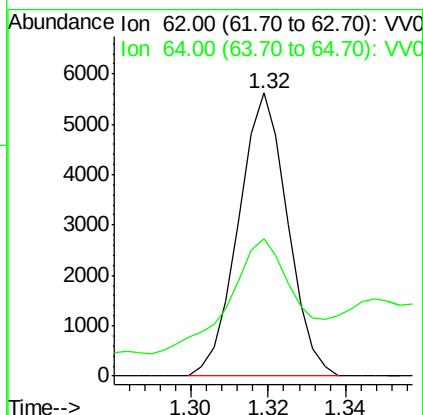
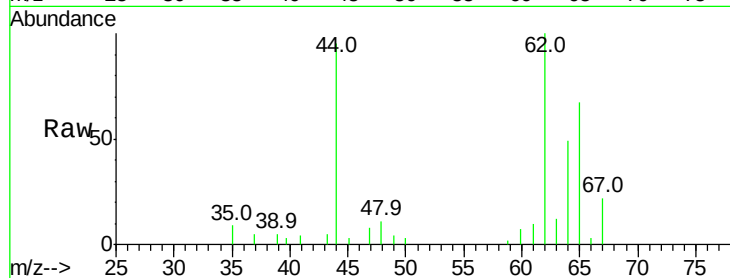
VSTD2.565

Tgt Ion: 62 Resp: 4954

Ion Ratio Lower Upper

62 100

64 48.7 24.5 45.5#



#6

Bromomethane

Concen: 4.585 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV010954.D

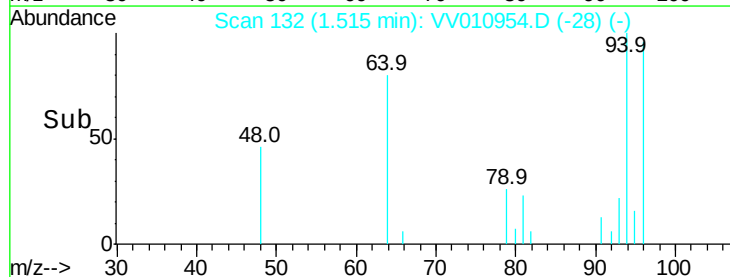
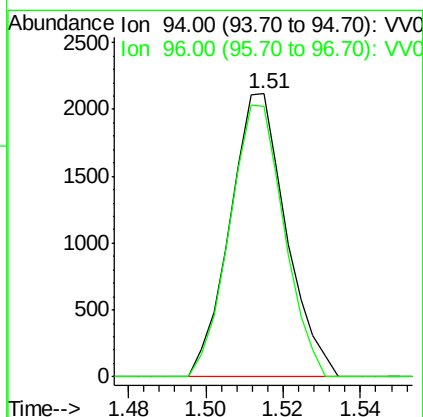
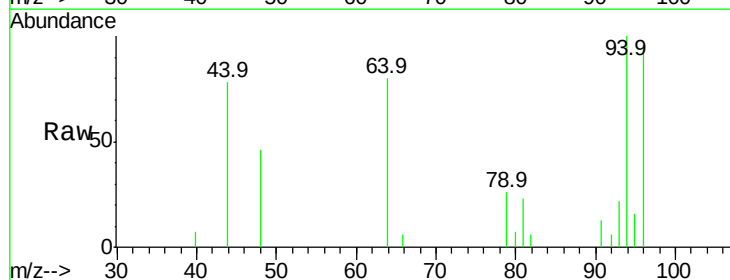
Acq: 20 May 2019 12:14

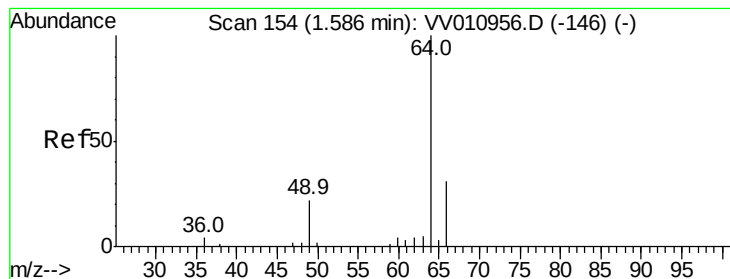
Tgt Ion: 94 Resp: 2135

Ion Ratio Lower Upper

94 100

96 93.0 9.3 177.7





#8

Chloroethane

Concen: 2.229 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

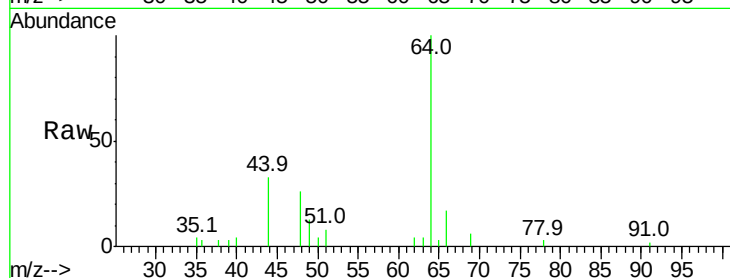
VSTD2.565

Tgt Ion: 64 Resp: 2313

Ion Ratio Lower Upper

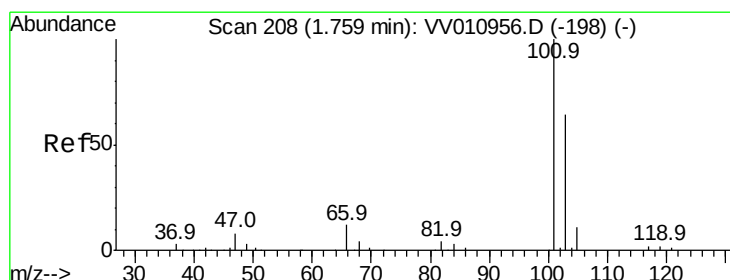
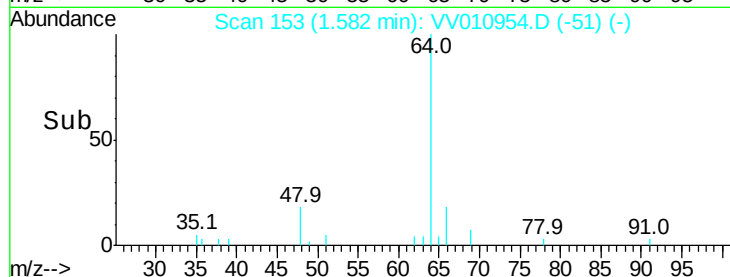
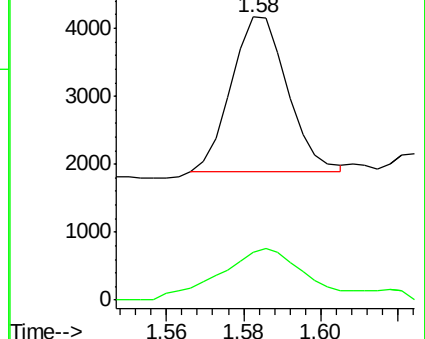
64 100

66 16.8 20.4 37.8#



Abundance Ion 64.00 (63.70 to 64.70): VV010956.D (-146) (-)

Ion 66.00 (65.70 to 66.70): VV010956.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 2.784 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV010954.D

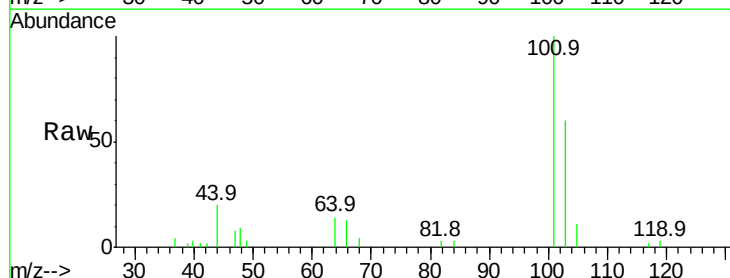
Acq: 20 May 2019 12:14

Tgt Ion: 101 Resp: 7995

Ion Ratio Lower Upper

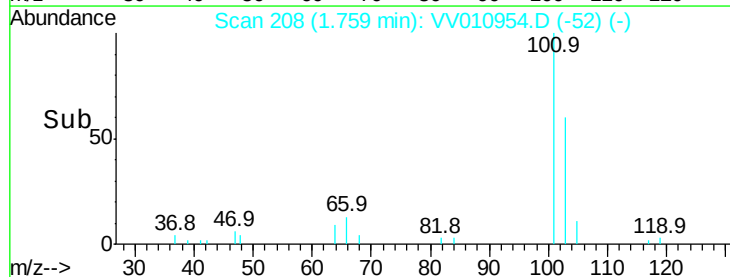
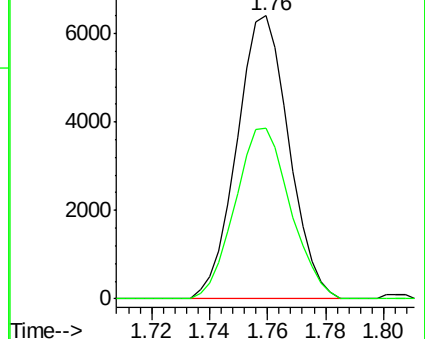
101 100

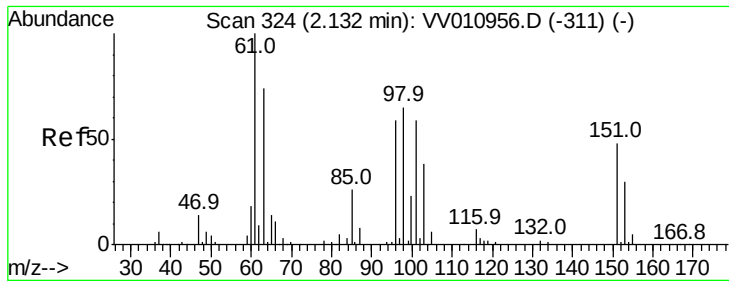
103 64.0 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV010956.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV010956.D (-198) (-)





#11

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

Concen: 2.595 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.565

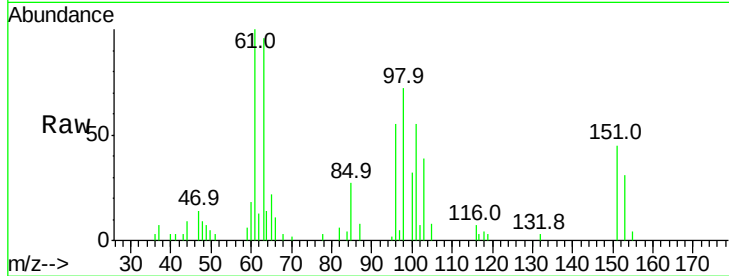
Tgt Ion:101 Resp: 4495

Ion Ratio Lower Upper

101 100

85 44.1 33.9 50.9

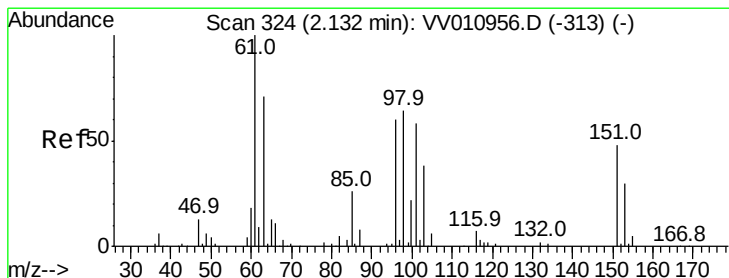
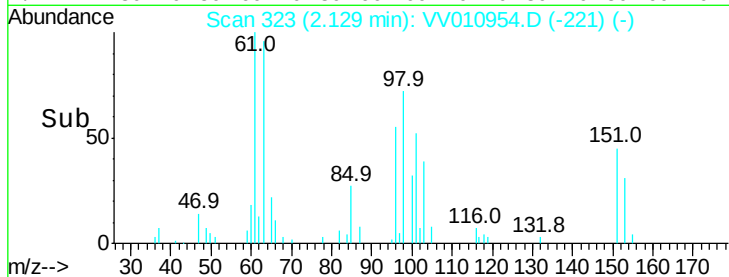
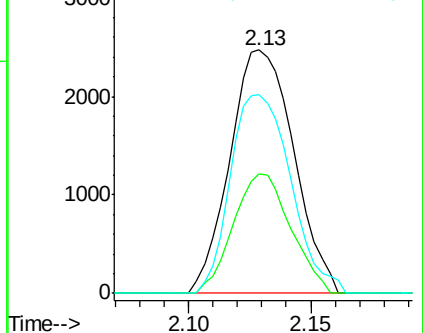
151 77.4 64.7 97.1



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: 2.348 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

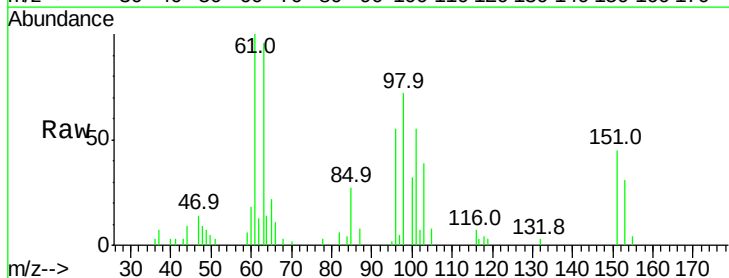
Tgt Ion: 96 Resp: 3794

Ion Ratio Lower Upper

96 100

61 180.9 117.8 218.8

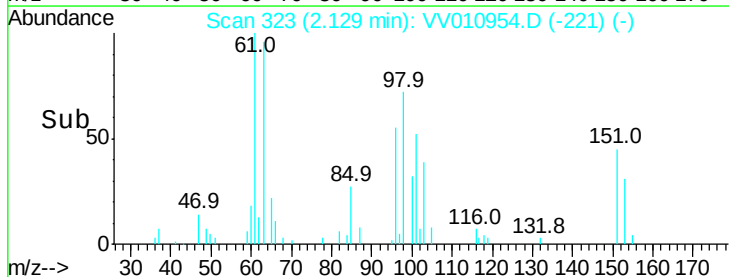
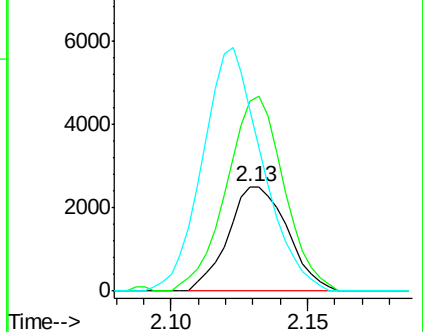
63 173.1 87.1 161.7#

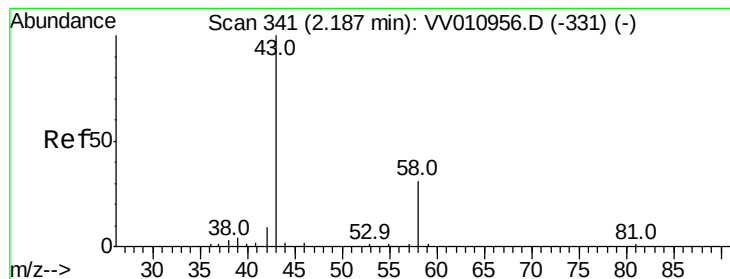


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 5.558 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

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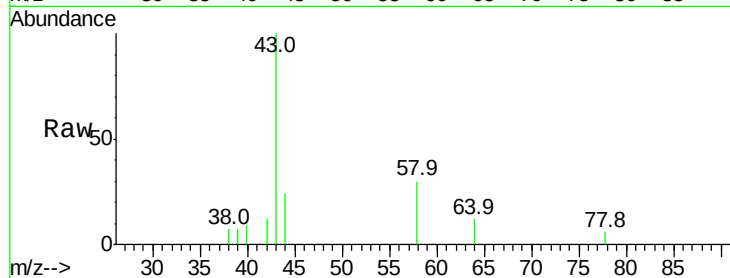
VSTD2.565

Tgt Ion: 43 Resp: 3182

Ion Ratio Lower Upper

43 100

58 31.2 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.19

2000

1500

1000

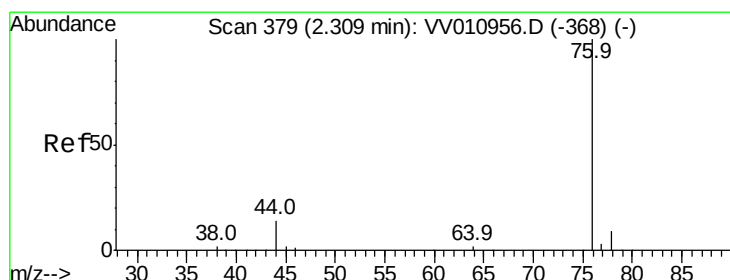
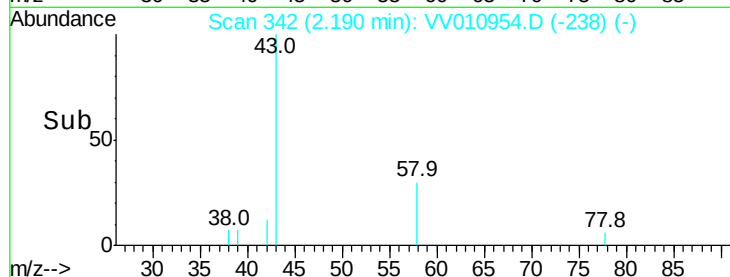
500

0

Time-->

2.15

2.20



#14

Carbon disulfide

Concen: 2.345 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV010954.D

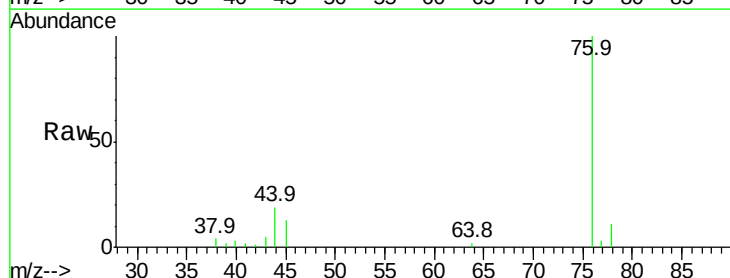
Acq: 20 May 2019 12:14

Tgt Ion: 76 Resp: 11415

Ion Ratio Lower Upper

76 100

78 11.4 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

8000

6000

4000

2000

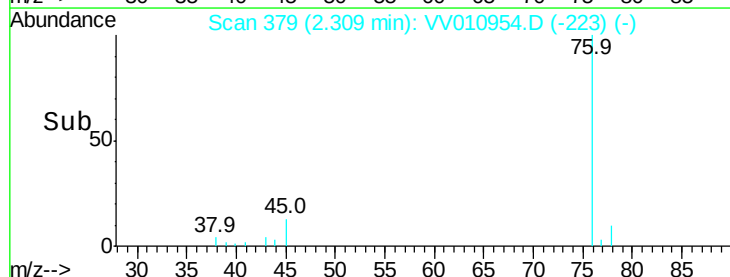
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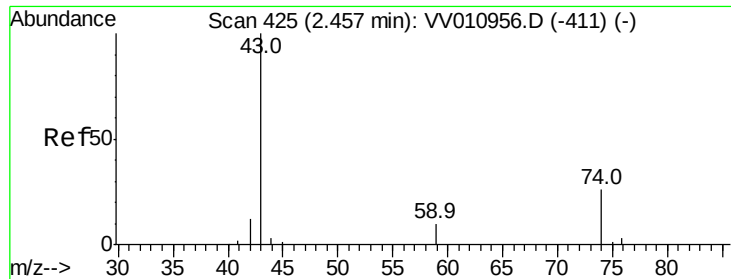
Time-->

2.25

2.30

2.35

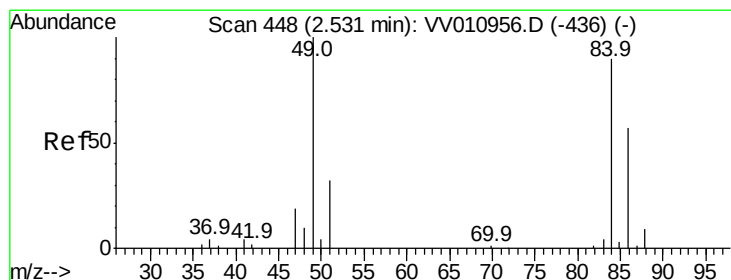
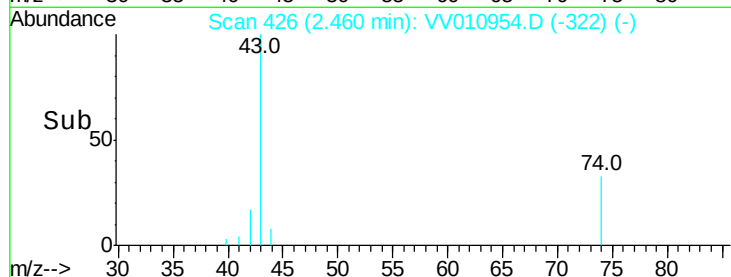
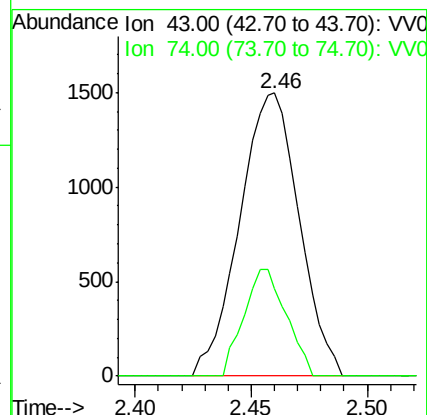
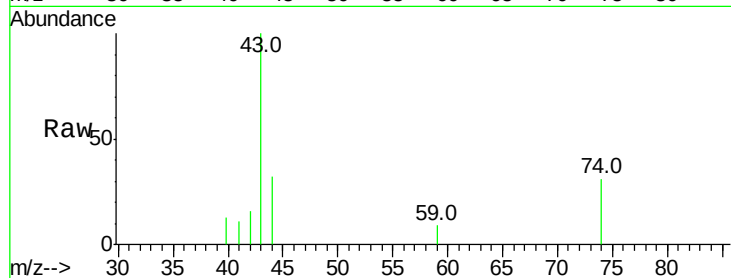




#15
Methyl Acetate
Concen: 2.229 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

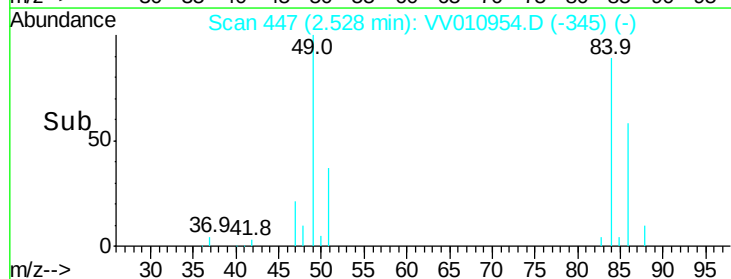
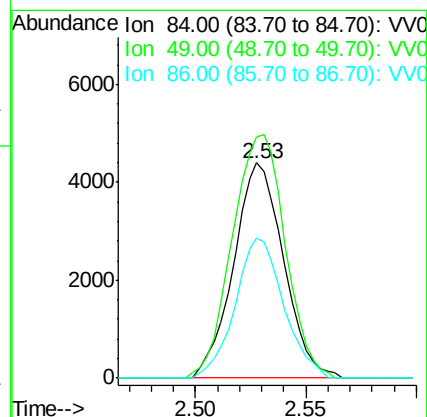
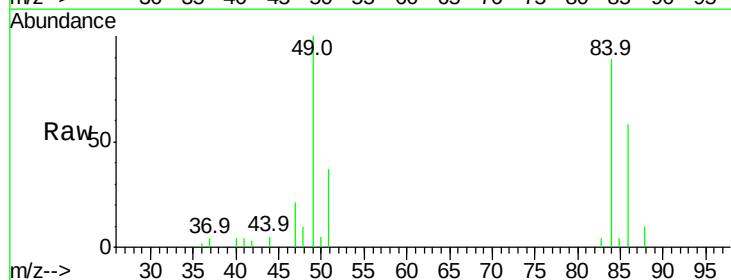
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

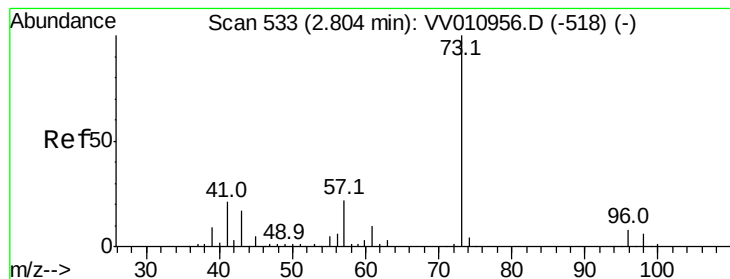
Tgt Ion: 43 Resp: 2658
Ion Ratio Lower Upper
43 100
74 26.9 21.1 31.7



#16
Methylene chloride
Concen: 3.059 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Tgt Ion: 84 Resp: 6923
Ion Ratio Lower Upper
84 100
49 112.0 77.4 143.8
86 65.3 44.0 81.6





#17

Methyl tert-butyl Ether

Concen: 2.224 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.565

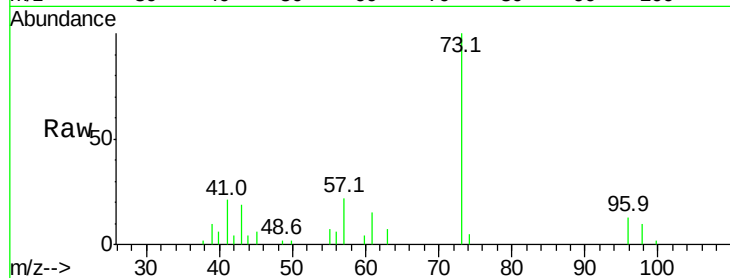
Tgt Ion: 73 Resp: 11737

Ion Ratio Lower Upper

73 100

43 19.0 14.5 21.7

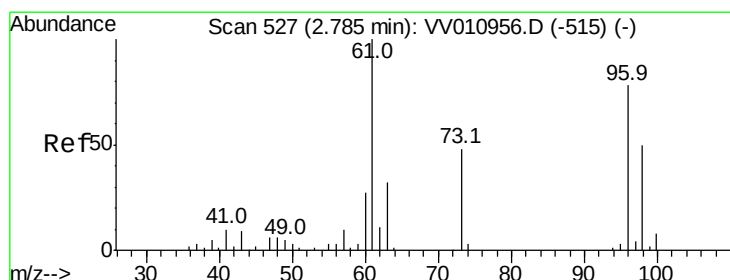
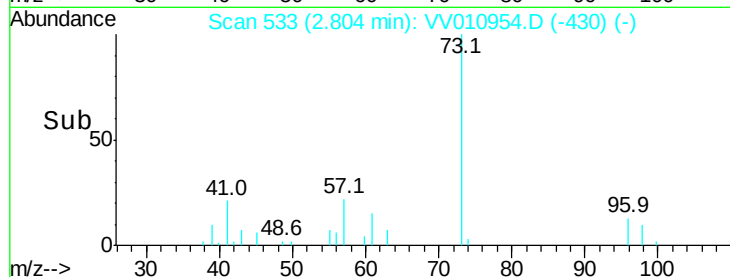
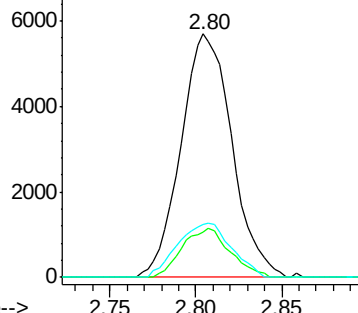
57 23.5 17.3 25.9



Abundance Ion 73.00 (72.70 to 73.70): VV010956.D (-518) (-)

Ion 43.00 (42.70 to 43.70): VV010956.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VV010956.D (-518) (-)



#18

trans-1,2-Dichloroethene

Concen: 2.553 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

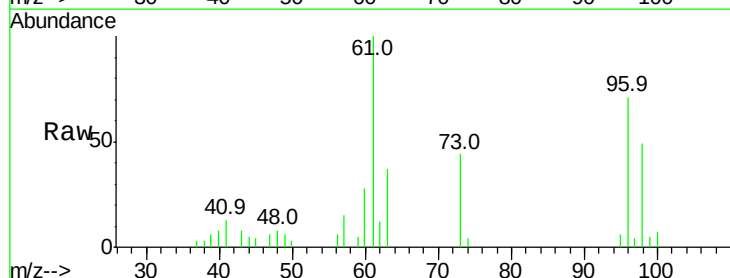
Tgt Ion: 96 Resp: 4915

Ion Ratio Lower Upper

96 100

61 140.3 89.7 166.5

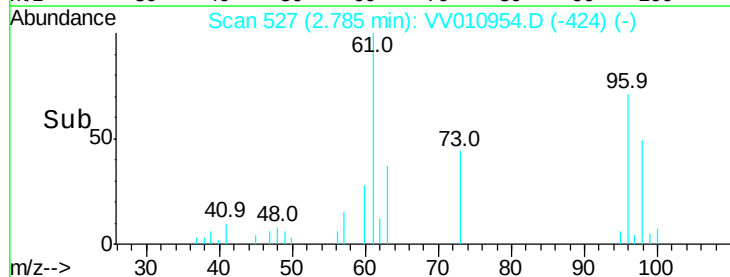
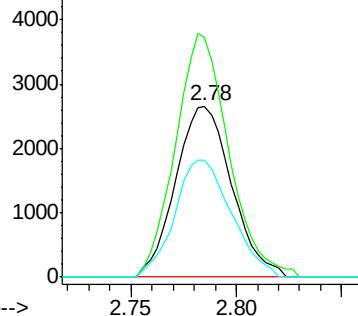
98 68.5 44.5 82.7

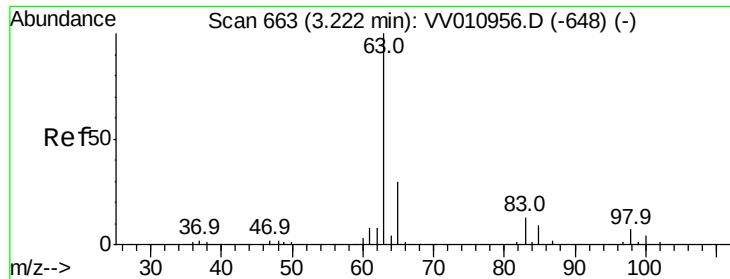


Abundance Ion 96.00 (95.70 to 96.70): VV010956.D (-515) (-)

Ion 61.00 (60.70 to 61.70): VV010956.D (-515) (-)

Ion 98.00 (97.70 to 98.70): VV010956.D (-515) (-)

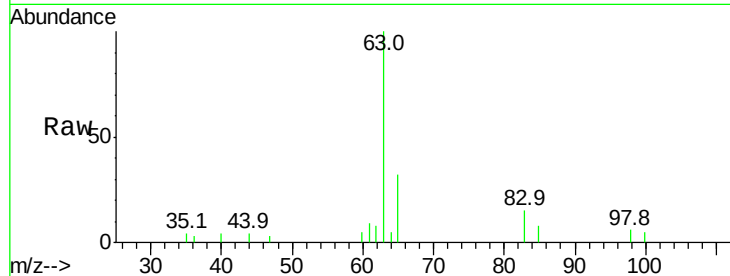




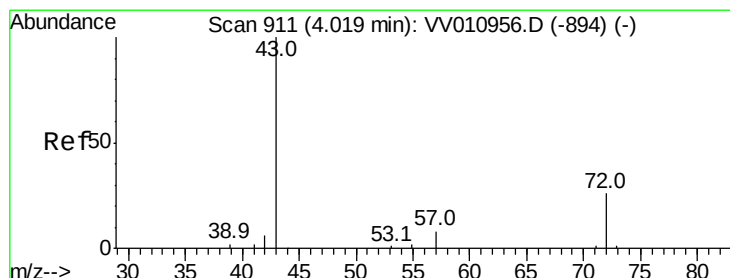
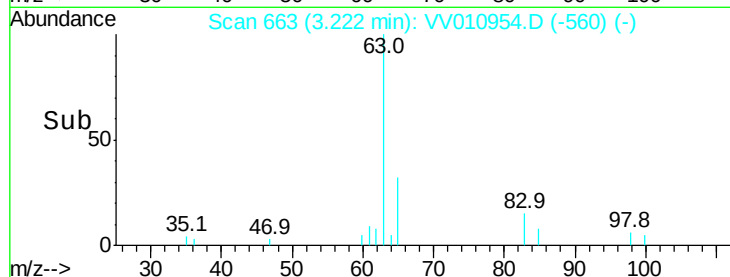
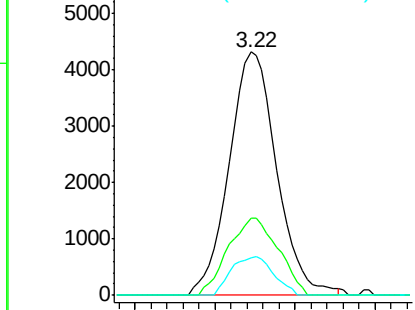
#19
 1,1-Dichloroethane
 Concen: 2.354 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. 0.00 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.565

Tgt Ion: 63 Resp: 8771
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.1 39.3
 83 15.4 9.1 16.9

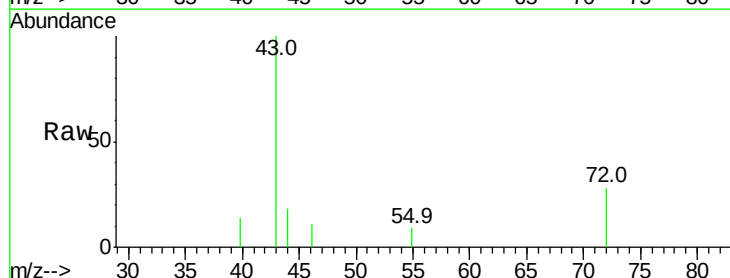


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

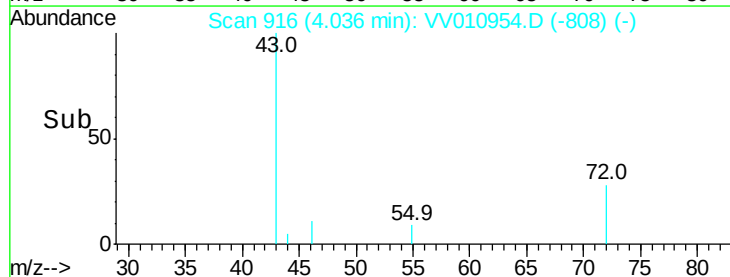
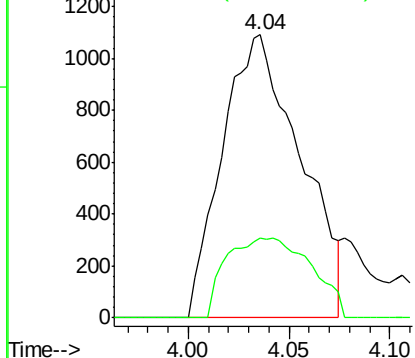


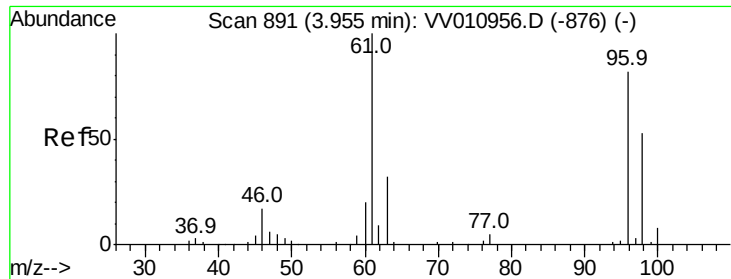
#21
 2-Butanone
 Concen: 3.970 ug/L
 RT: 4.04 min Scan# 916
 Delta R.T. 0.02 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

Tgt Ion: 43 Resp: 2934
 Ion Ratio Lower Upper
 43 100
 72 0.0 13.1 39.3#



Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0



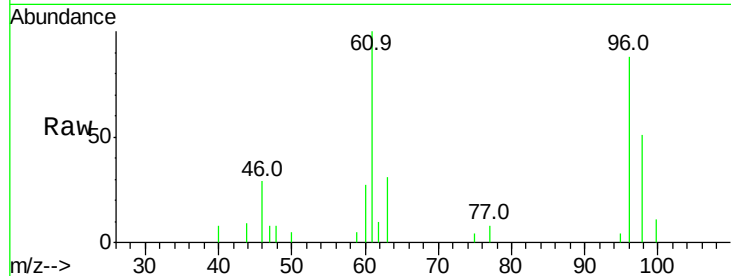


#22

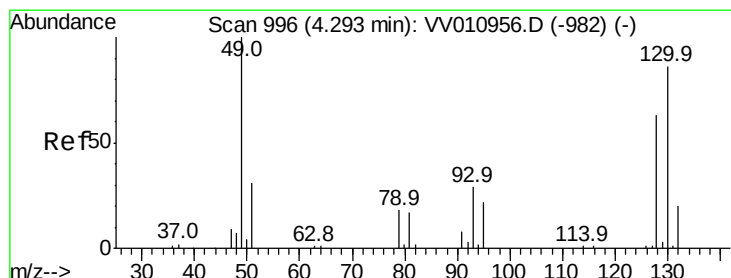
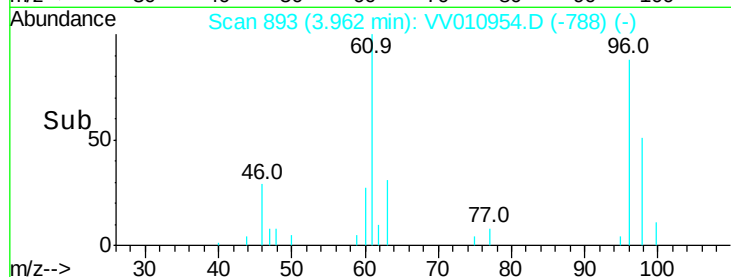
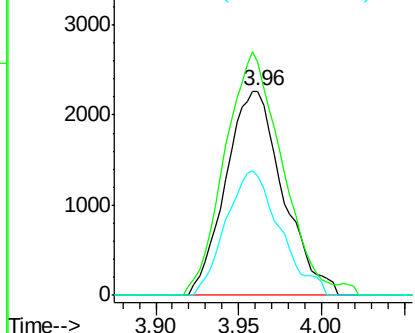
cis-1,2-Dichloroethene
Concen: 2.419 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.01 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Tgt Ion: 96 Resp: 5450
Ion Ratio Lower Upper
96 100
61 113.9 85.4 158.6
98 58.4 45.1 83.7



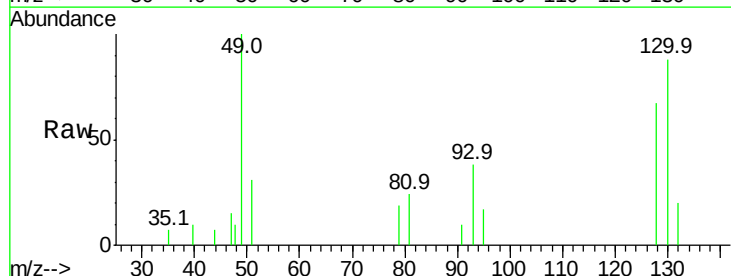
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



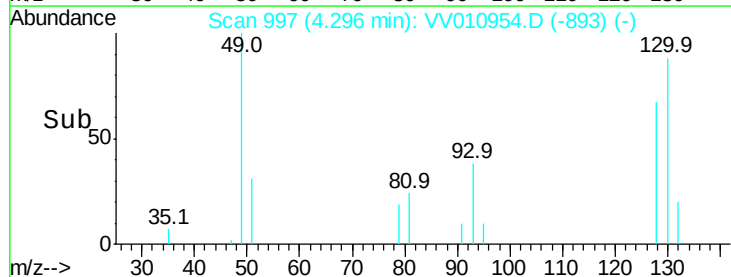
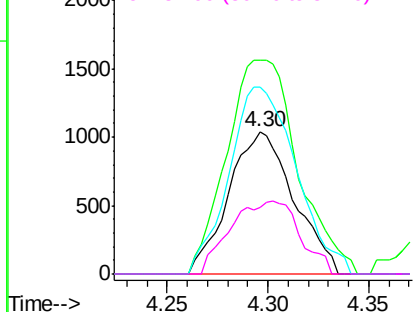
#23

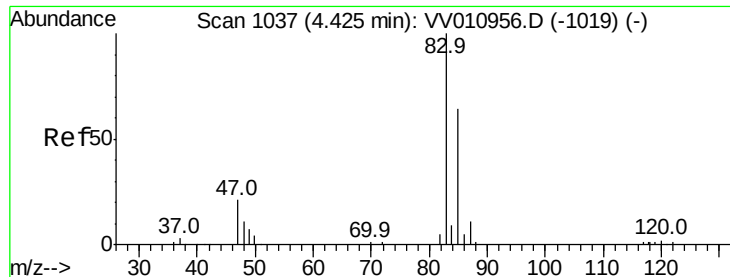
Bromochloromethane
Concen: 2.228 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Tgt Ion: 128 Resp: 2338
Ion Ratio Lower Upper
128 100
49 150.2 111.6 207.4
130 131.8 95.5 177.3
51 47.0 39.8 59.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0

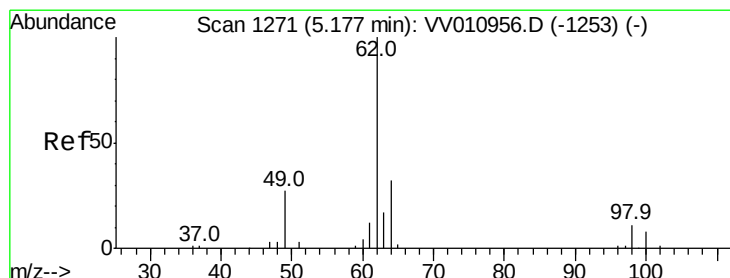
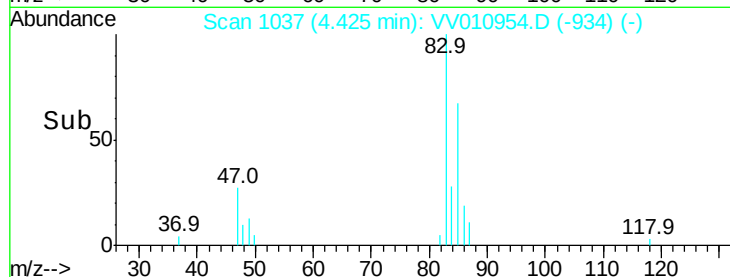
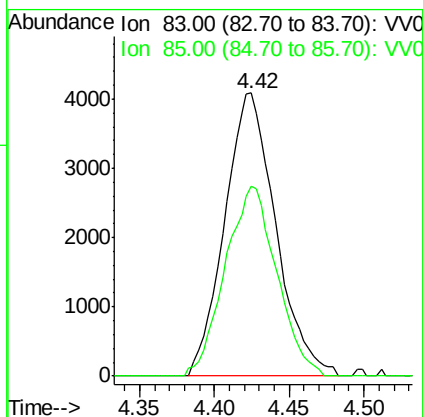
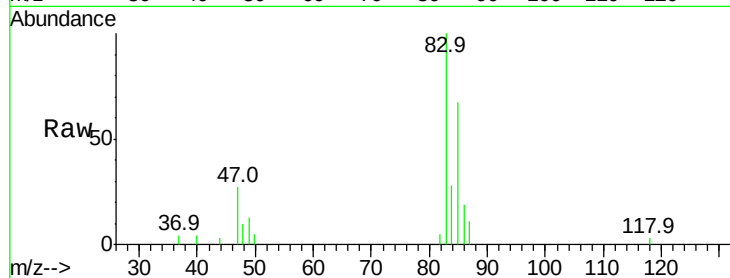




#25
Chloroform
Concen: 2.407 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

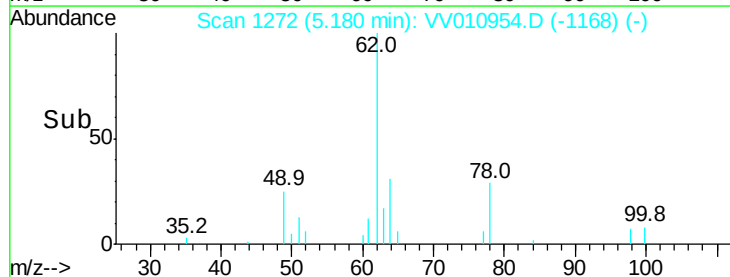
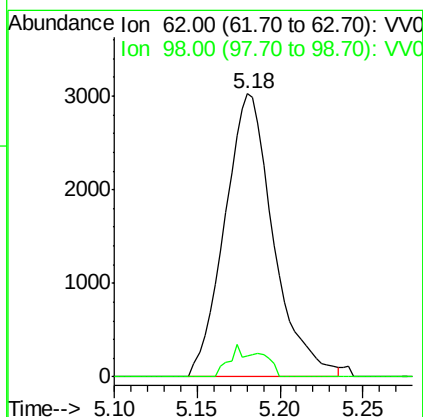
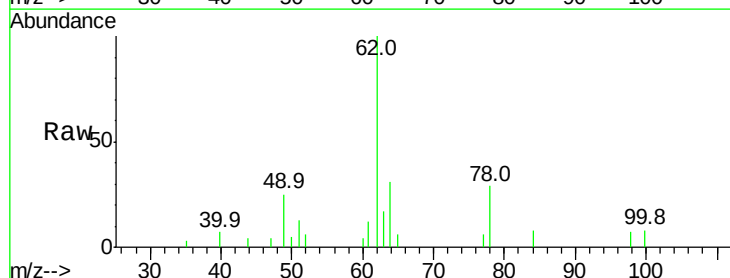
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

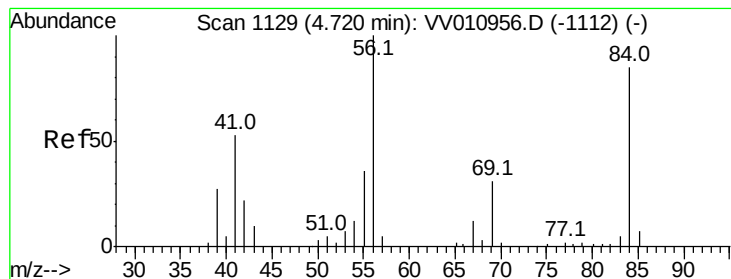
Tgt Ion: 83 Resp: 9732
Ion Ratio Lower Upper
83 100
85 67.4 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.194 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Tgt Ion: 62 Resp: 6188
Ion Ratio Lower Upper
62 100
98 7.4 8.6 13.0#





#30

Cyclohexane

Concen: 2.680 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampled :

VSTD2.565

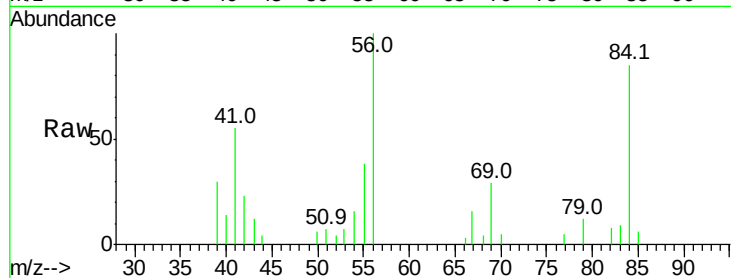
Tgt Ion: 56 Resp: 6949

Ion Ratio Lower Upper

56 100

69 27.7 25.1 37.7

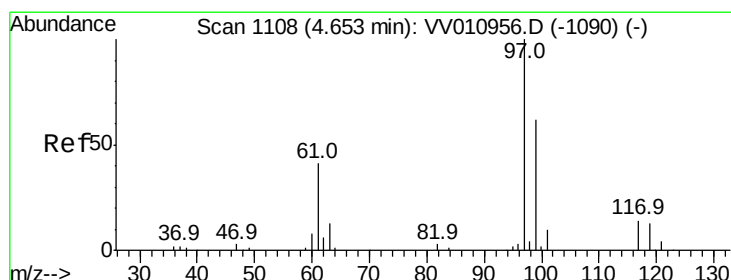
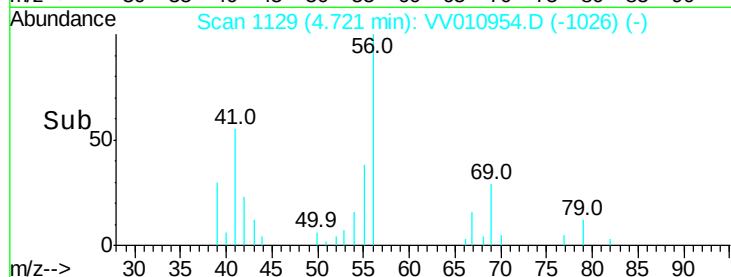
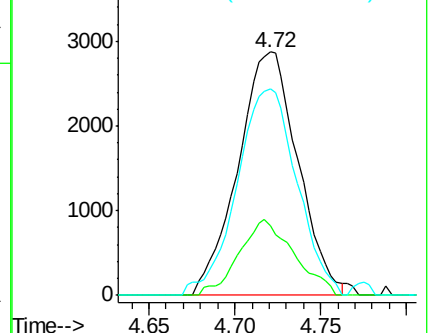
84 85.1 72.4 108.6



Abundance Ion 56.00 (55.70 to 56.70): VV010956.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV010956.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV010956.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 2.555 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

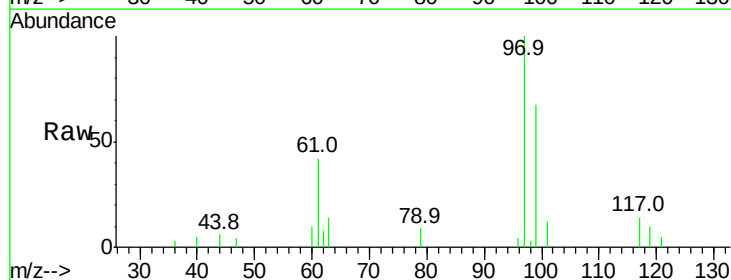
Tgt Ion: 97 Resp: 7484

Ion Ratio Lower Upper

97 100

99 68.1 51.0 76.4

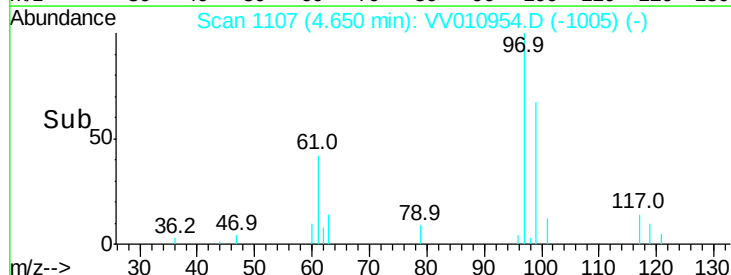
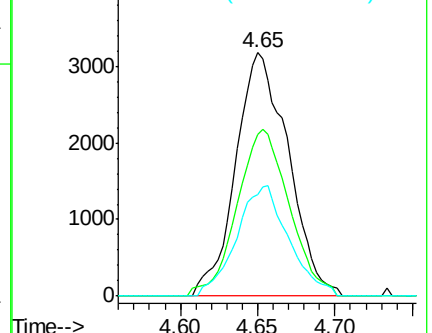
61 45.1 33.9 50.9

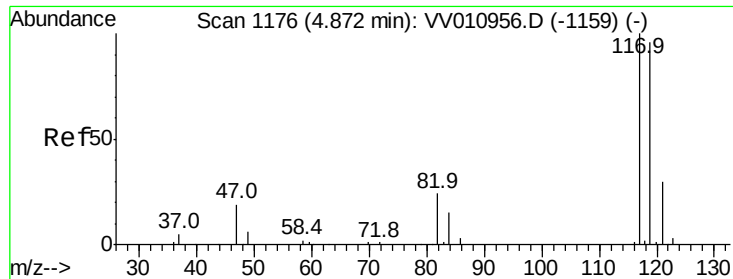


Abundance Ion 97.00 (96.70 to 97.70): VV010956.D (-1090) (-)

Ion 99.00 (98.70 to 99.70): VV010956.D (-1090) (-)

Ion 61.00 (60.70 to 61.70): VV010956.D (-1090) (-)





#32

Carbon tetrachloride

Concen: 2.826 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

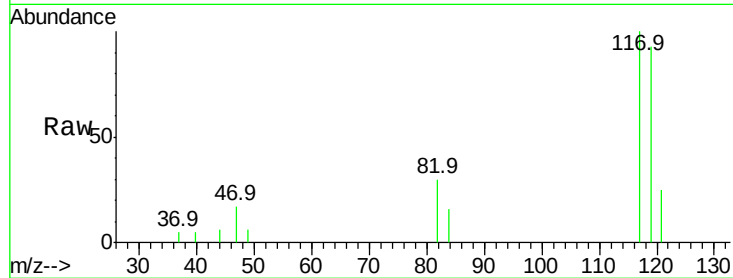
VSTD2.565

Tgt Ion:117 Resp: 7065

Ion Ratio Lower Upper

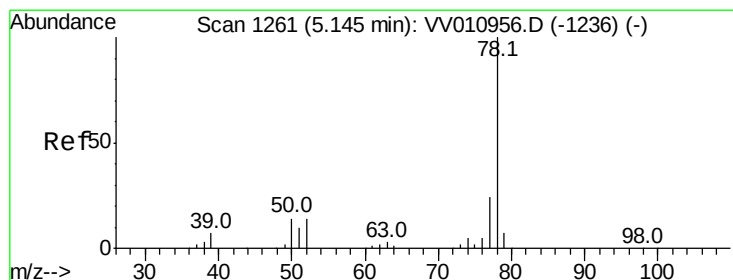
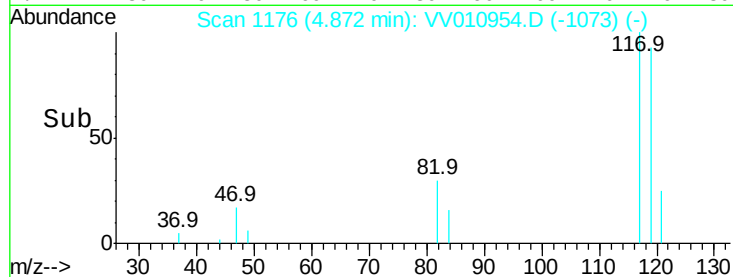
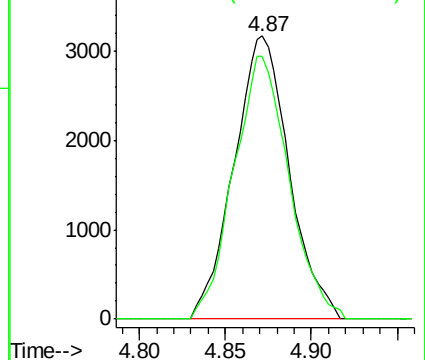
117 100

119 92.8 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 2.380 ug/L

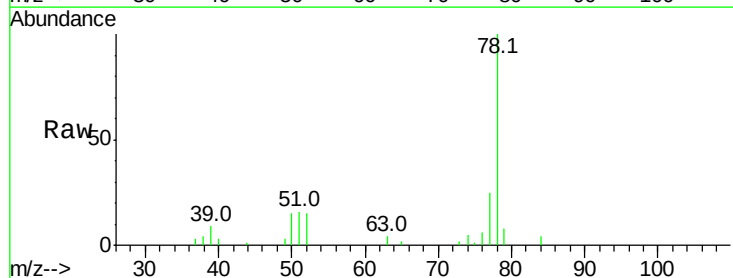
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

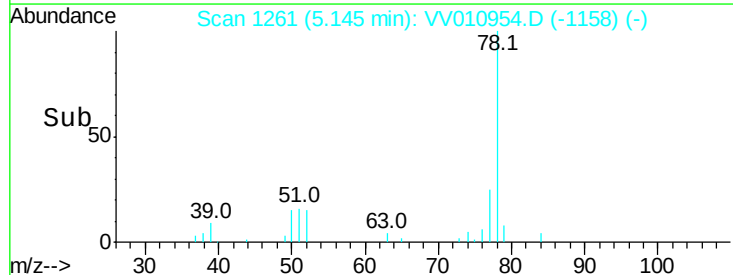
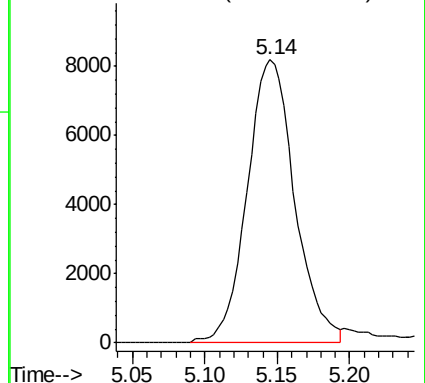
Lab File: VV010954.D

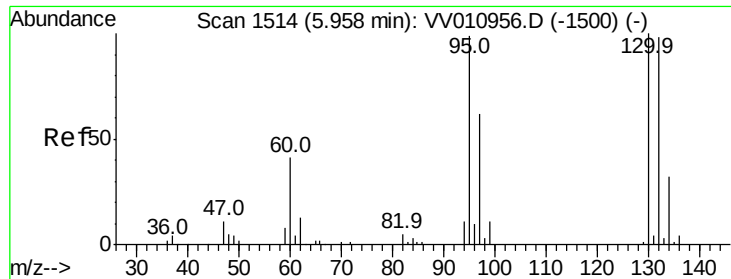
Acq: 20 May 2019 12:14

Tgt Ion: 78 Resp: 18707



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 2.700 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.565

Tgt Ion: 95 Resp: 5501

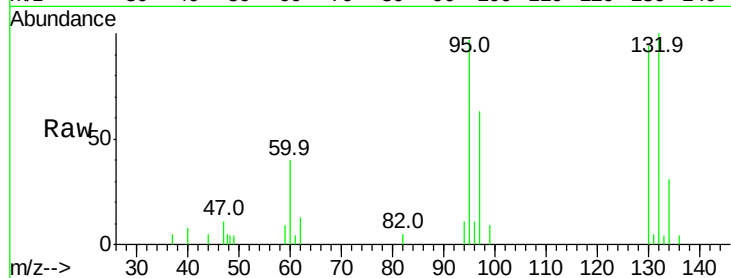
Ion Ratio Lower Upper

95 100

97 64.1 43.4 80.6

132 99.8 68.8 127.8

130 100.5 69.9 129.9



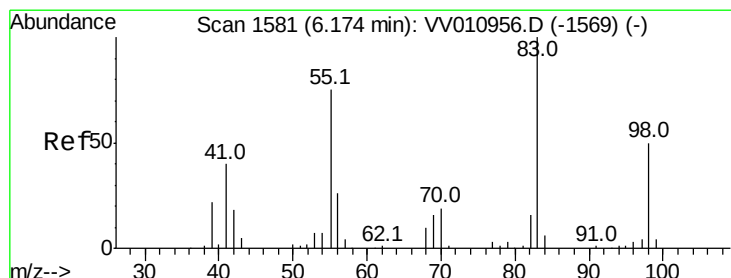
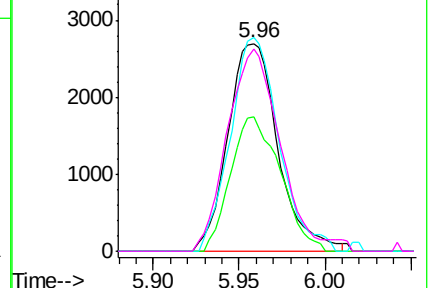
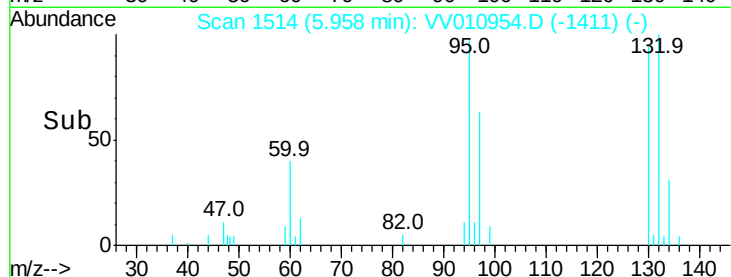
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 2.471 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

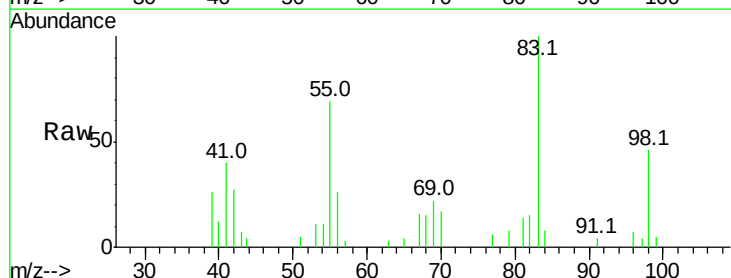
Tgt Ion: 83 Resp: 7005

Ion Ratio Lower Upper

83 100

55 82.2 57.0 85.4

98 52.2 36.2 54.4

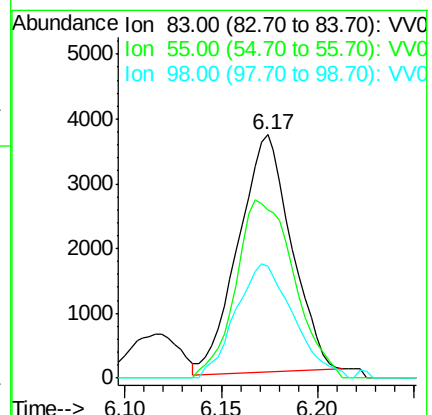
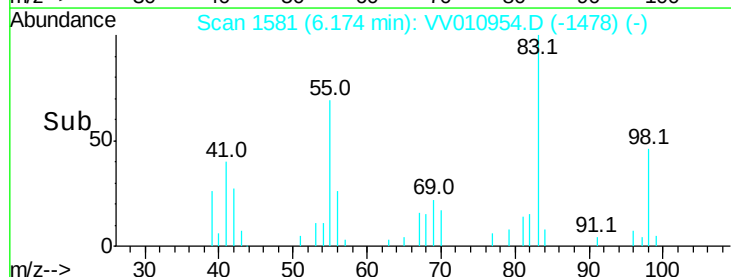


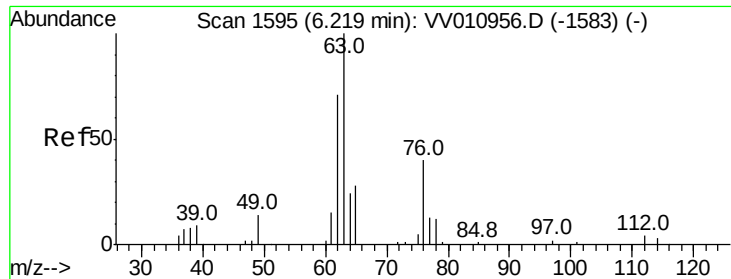
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 2.374 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

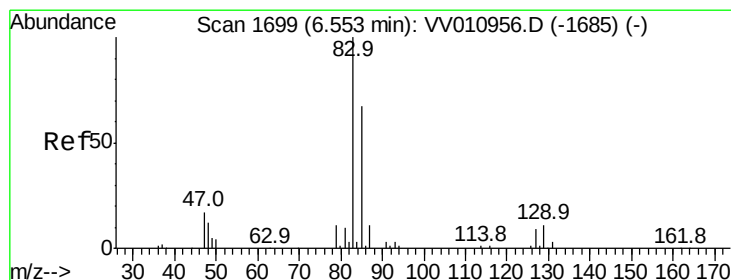
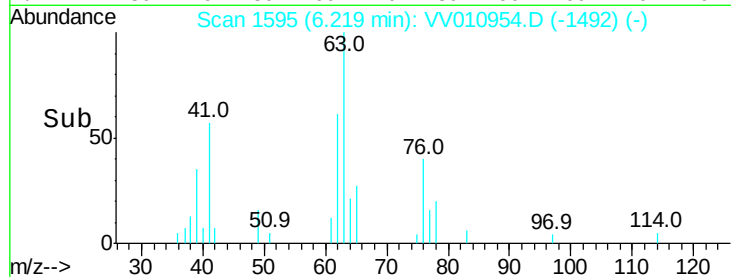
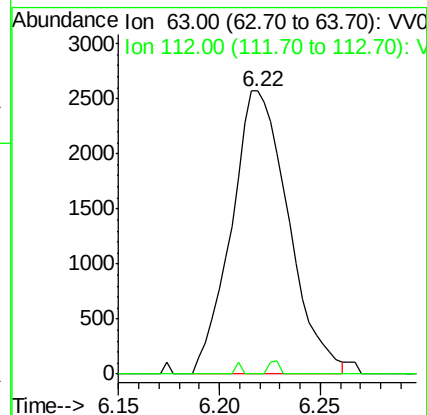
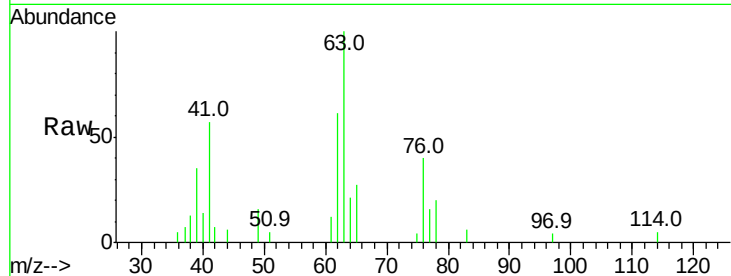
VSTD2.565

Tgt Ion: 63 Resp: 5084

Ion Ratio Lower Upper

63 100

112 0.9 3.6 5.4#



#41

Bromodichloromethane

Concen: 2.410 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

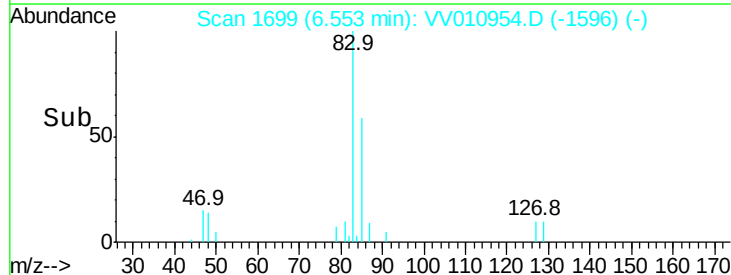
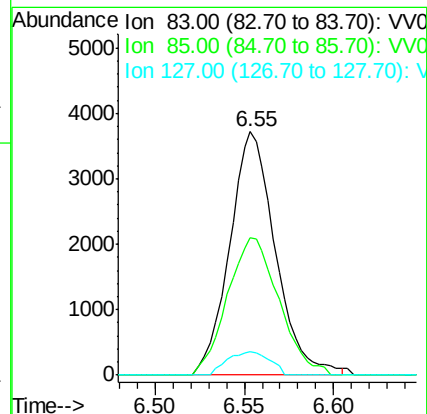
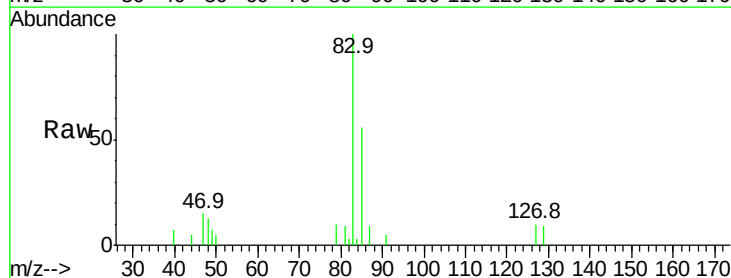
Tgt Ion: 83 Resp: 6618

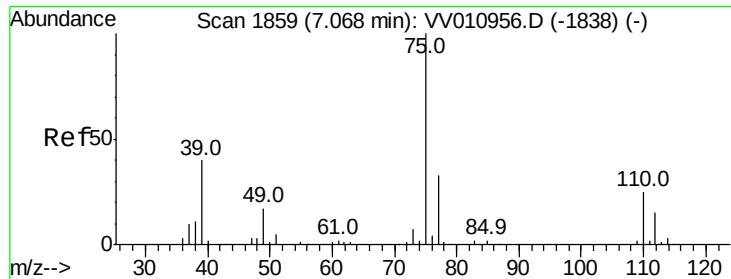
Ion Ratio Lower Upper

83 100

85 56.4 46.7 86.7

127 9.8 7.1 10.7



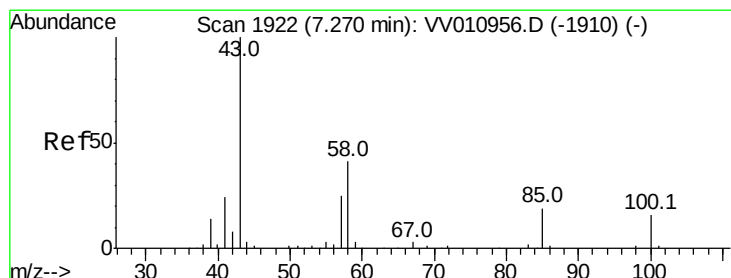
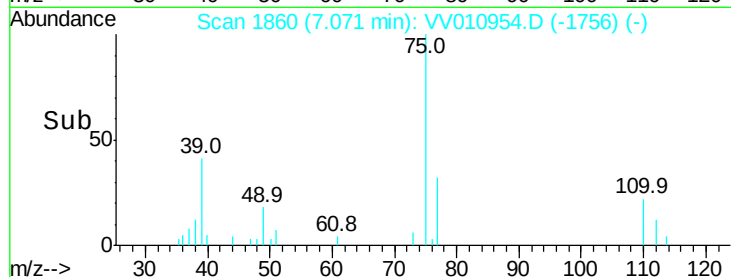
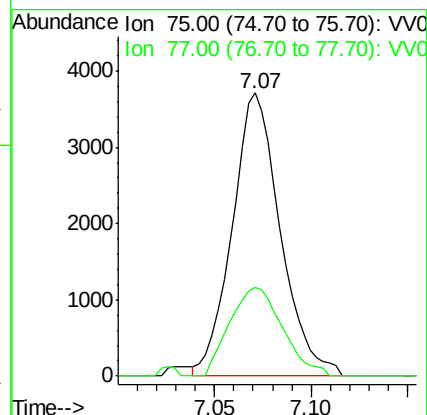
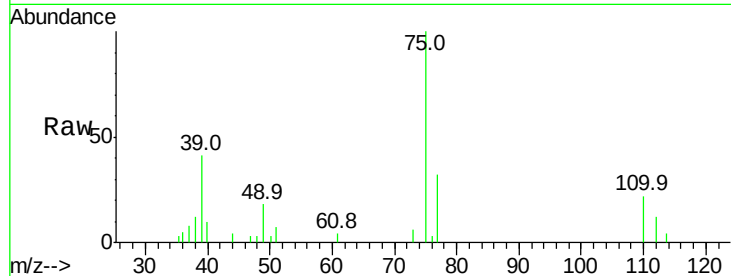


#42

cis-1,3-Dichloropropene
Concen: 2.057 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

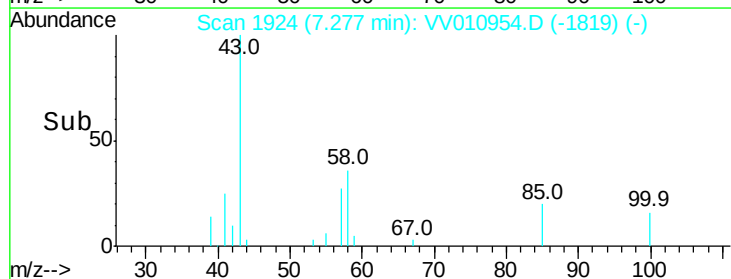
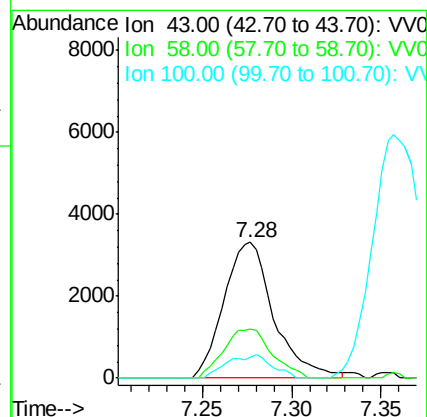
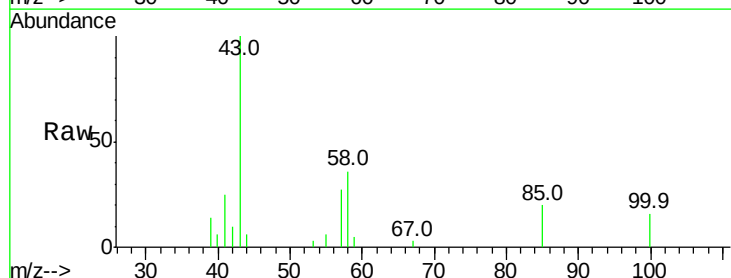
Tgt Ion: 75 Resp: 6425
Ion Ratio Lower Upper
75 100
77 31.5 22.9 42.5

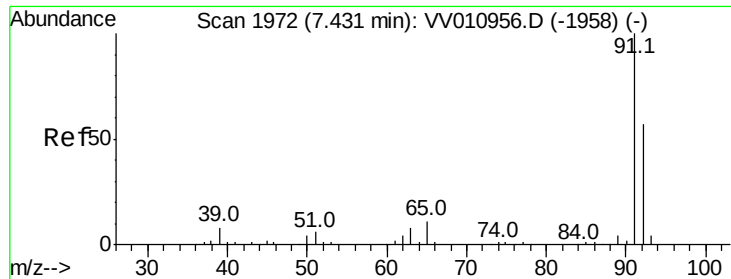


#43

4-Methyl-2-pentanone
Concen: 4.265 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.01 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Tgt Ion: 43 Resp: 6449
Ion Ratio Lower Upper
43 100
58 34.9 33.1 49.7
100 8.3 13.1 19.7#





#44

Toluene

Concen: 2.221 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

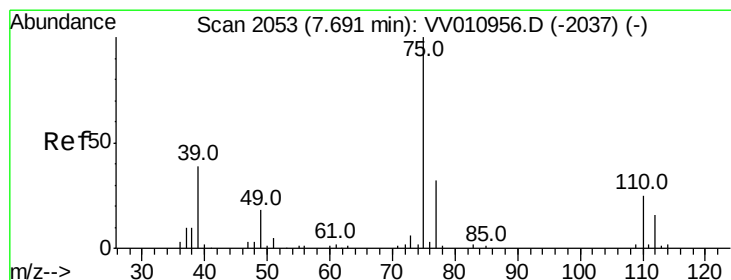
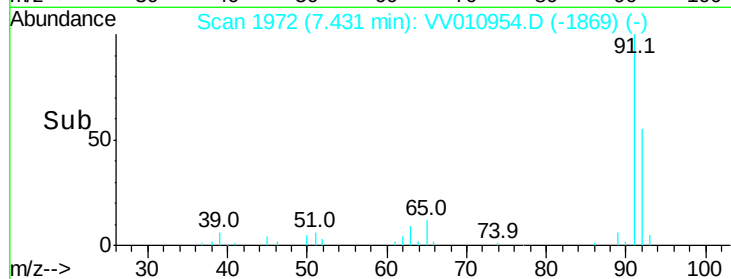
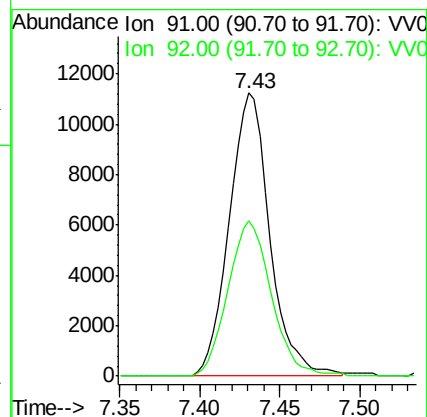
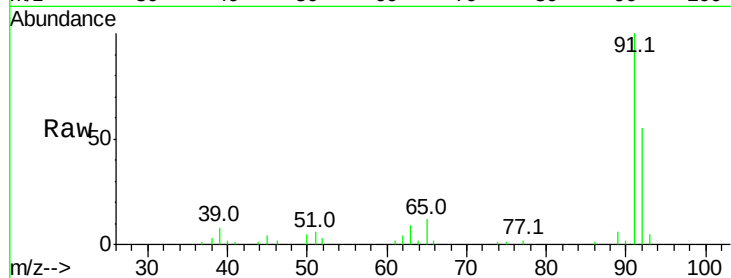
VSTD2.565

Tgt Ion: 91 Resp: 19406

Ion Ratio Lower Upper

91 100

92 54.7 40.0 74.4



#45

trans-1,3-Dichloropropene

Concen: 2.040 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV010954.D

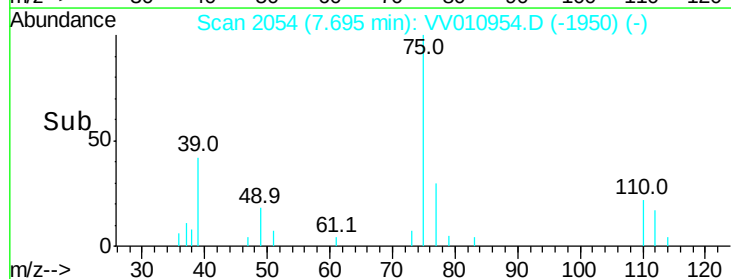
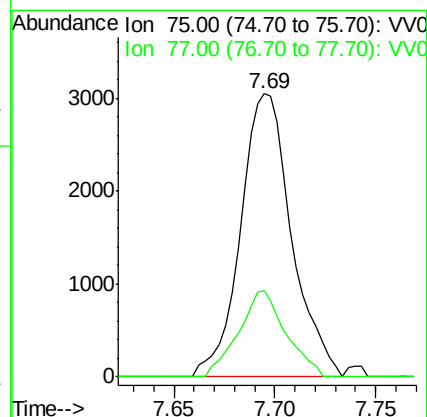
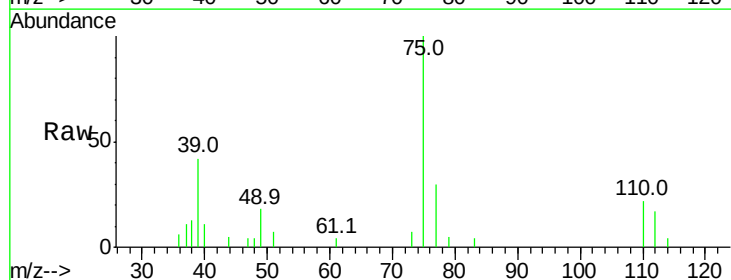
Acq: 20 May 2019 12:14

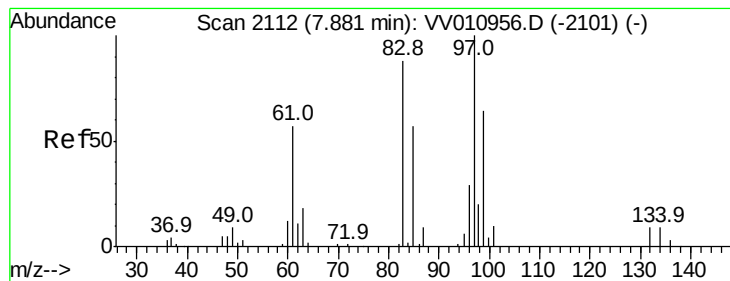
Tgt Ion: 75 Resp: 5386

Ion Ratio Lower Upper

75 100

77 30.5 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 2.311 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.565

Tgt Ion: 97 Resp: 3985

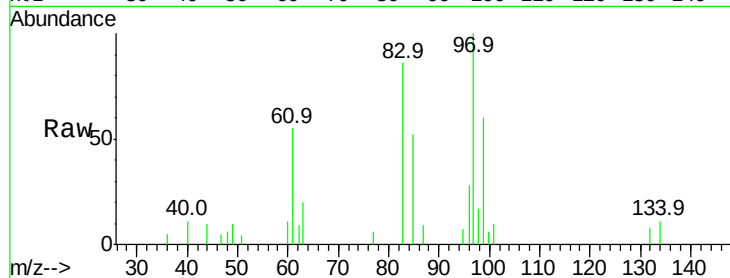
Ion Ratio Lower Upper

97 100

83 86.1 61.6 114.4

85 52.1 40.2 74.6

99 59.8 45.1 83.7

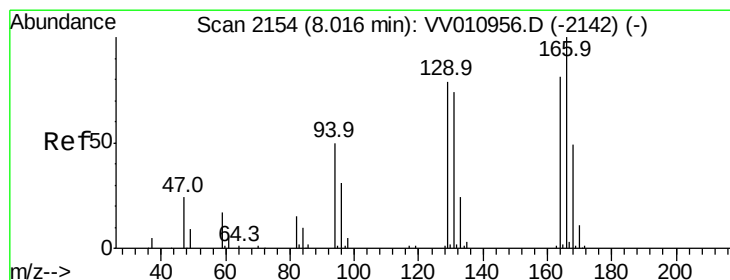
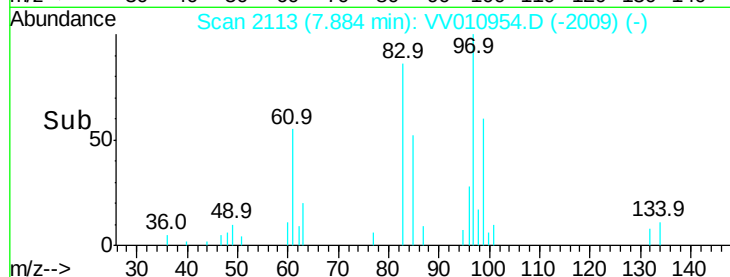
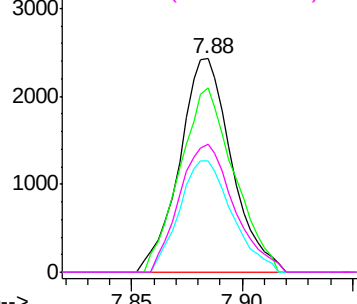


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 2.780 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Tgt Ion: 164 Resp: 4186

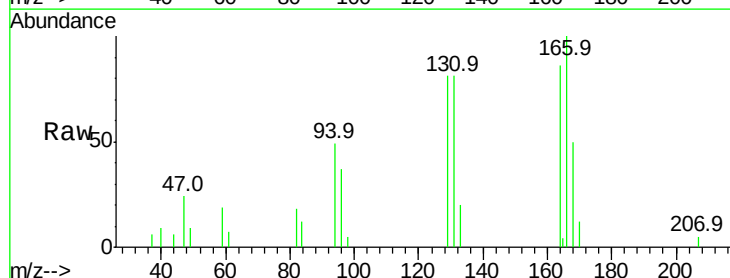
Ion Ratio Lower Upper

164 100

129 95.2 67.8 125.8

131 94.3 64.1 119.1

166 116.9 86.1 159.9

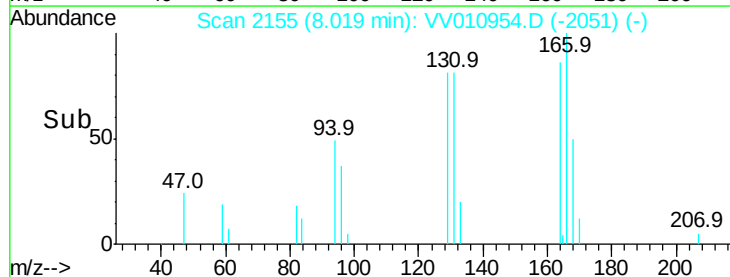
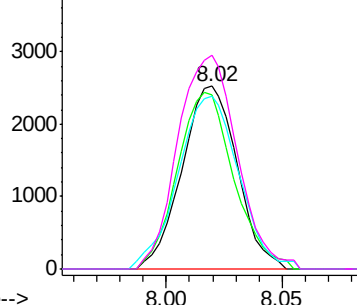


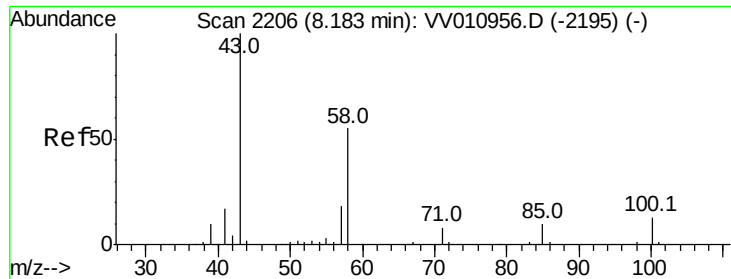
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

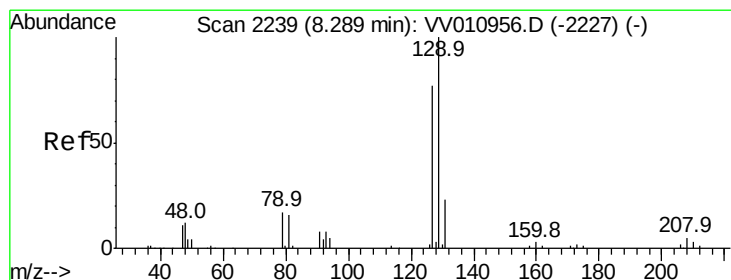
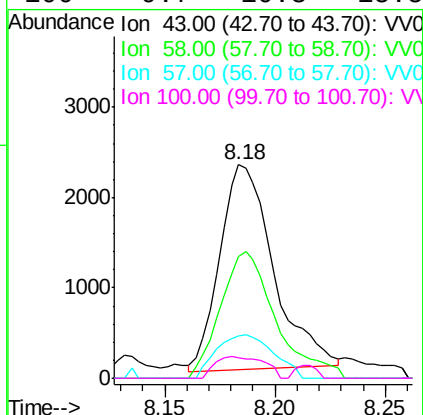
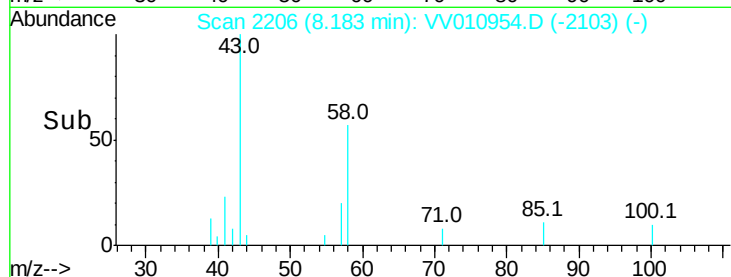
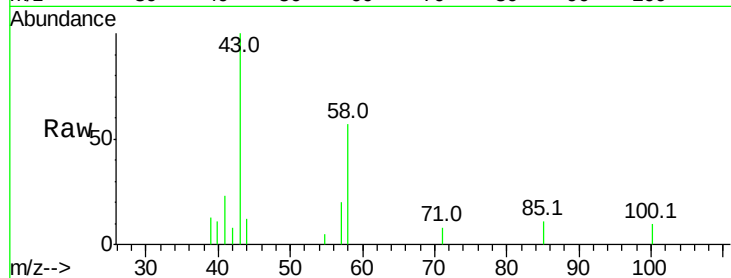




#49
2-Hexanone
Concen: 3.442 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

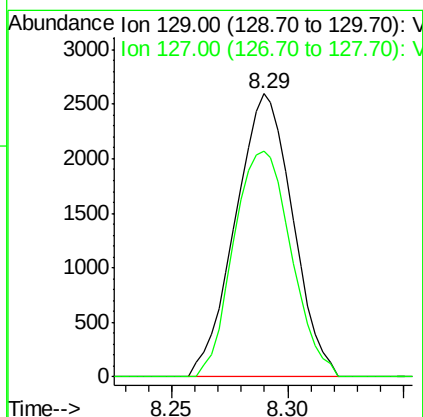
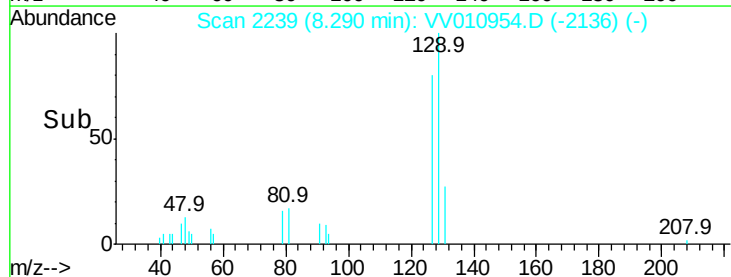
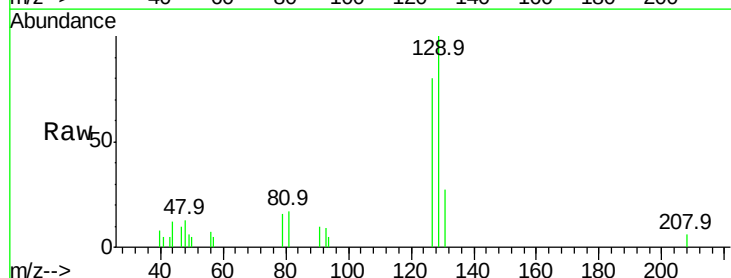
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

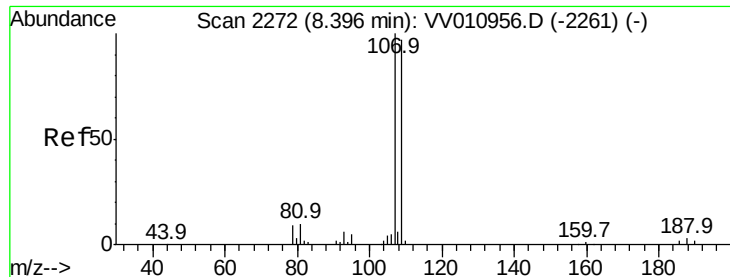
Tgt Ion: 43 Resp: 3844
Ion Ratio Lower Upper
43 100
58 63.2 46.0 69.0
57 22.5 14.5 21.7#
100 9.7 10.3 15.5#



#50
Dibromochloromethane
Concen: 2.319 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Tgt Ion: 129 Resp: 4449
Ion Ratio Lower Upper
129 100
127 79.8 54.4 101.0

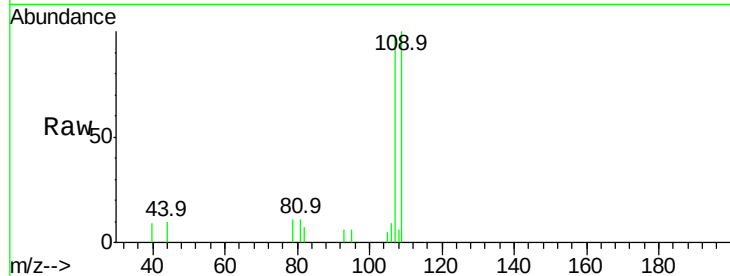




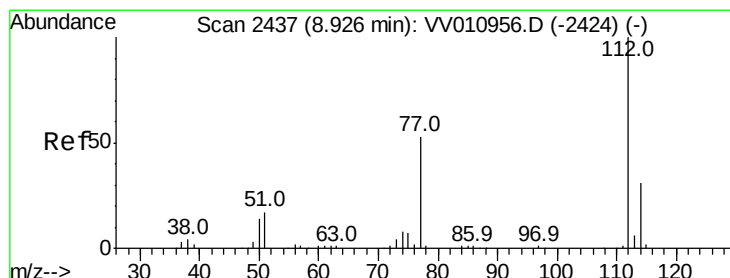
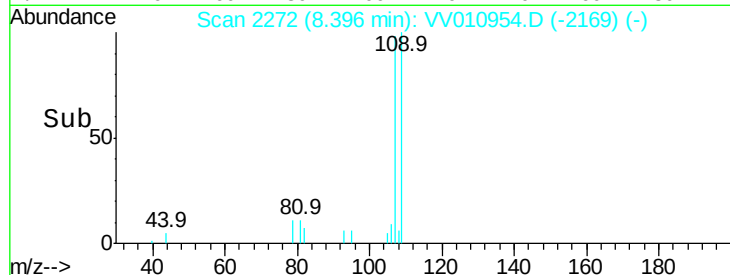
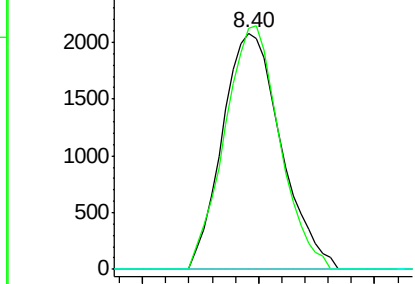
#51
1,2-Dibromoethane
Concen: 2.253 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.565

Tgt Ion:107 Resp: 3660
Ion Ratio Lower Upper
107 100
109 102.3 68.0 126.4
188 0.0 2.3 3.5#

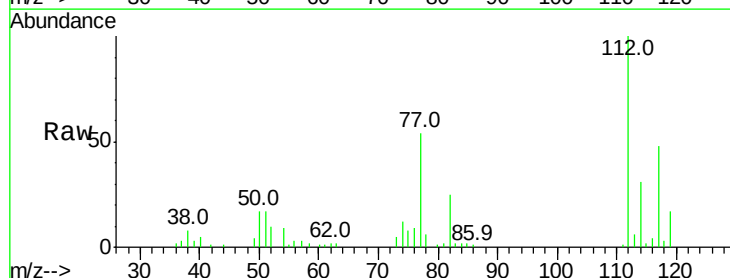


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

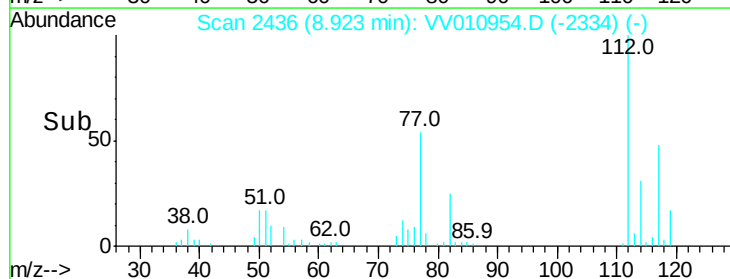
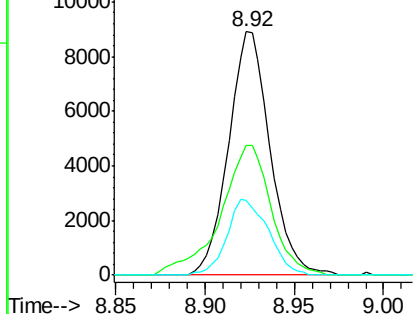


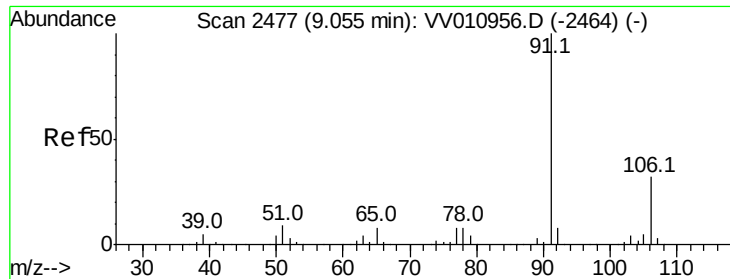
#52
Chlorobenzene
Concen: 2.425 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV010954.D
Acq: 20 May 2019 12:14

Tgt Ion:112 Resp: 14434
Ion Ratio Lower Upper
112 100
77 53.5 43.0 64.4
114 30.8 22.0 40.8



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





#53

Ethylbenzene

Concen: 2.173 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

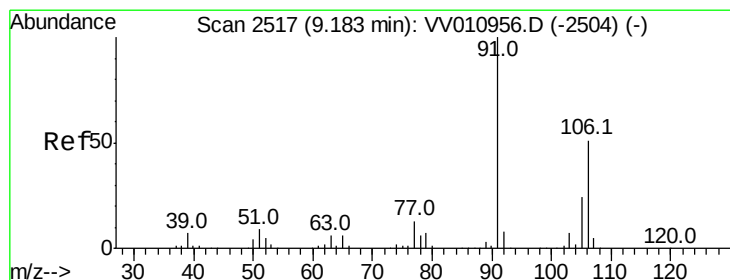
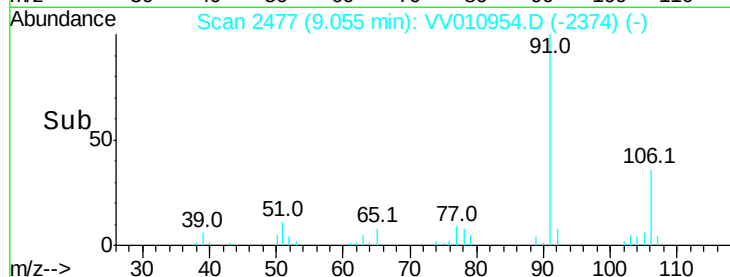
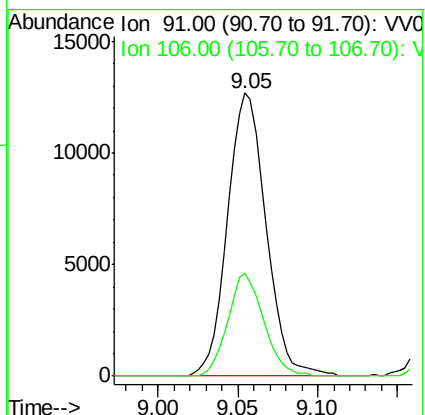
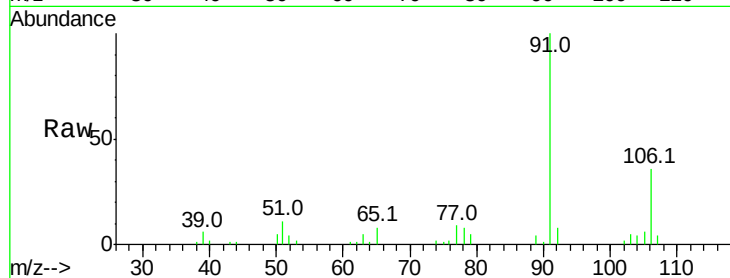
VSTD2.565

Tgt Ion: 91 Resp: 20804

Ion Ratio Lower Upper

91 100

106 36.4 22.4 41.6



#54

m,p-Xylene

Concen: 2.146 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010954.D

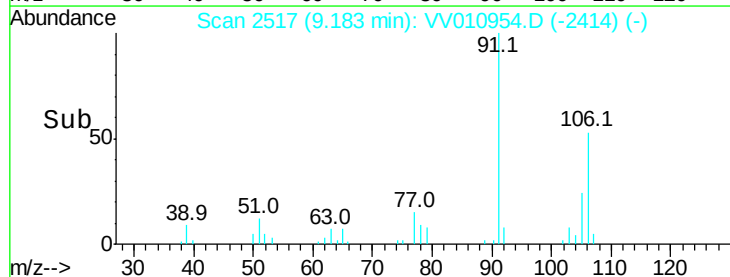
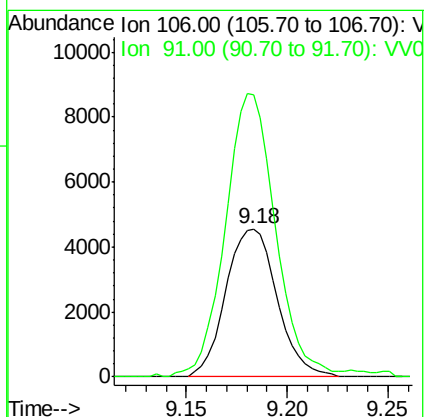
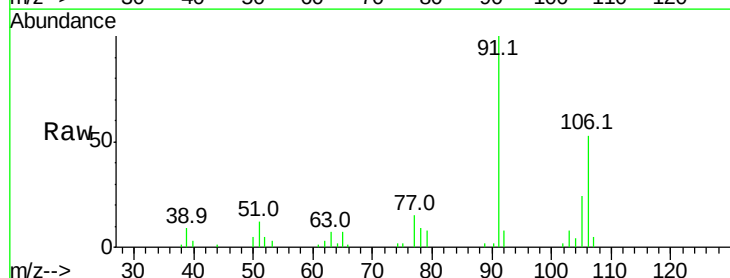
Acq: 20 May 2019 12:14

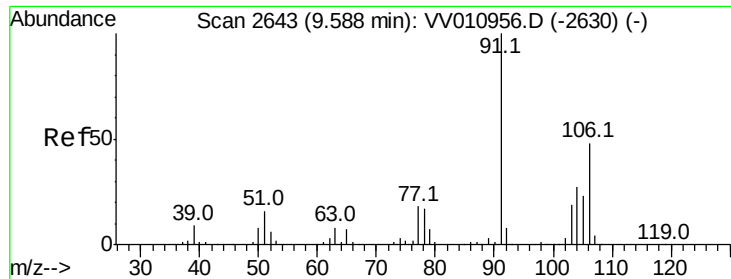
Tgt Ion: 106 Resp: 8095

Ion Ratio Lower Upper

106 100

91 190.2 138.3 256.9





#55

o-xylene

Concen: 1.917 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

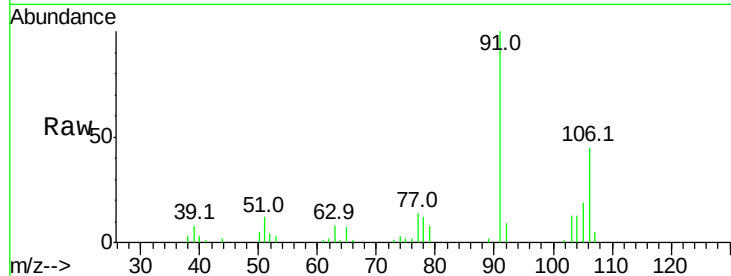
VSTD2.565

Tgt Ion:106 Resp: 7103

Ion Ratio Lower Upper

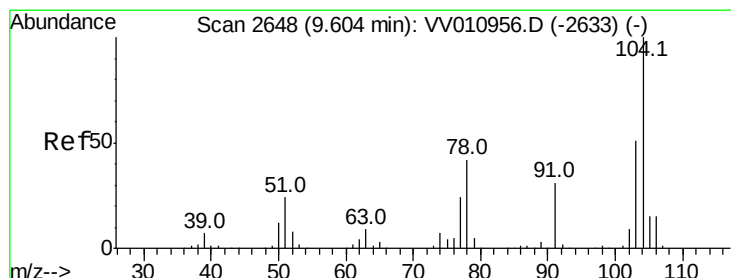
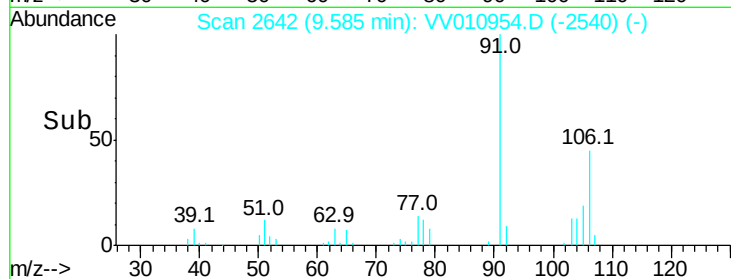
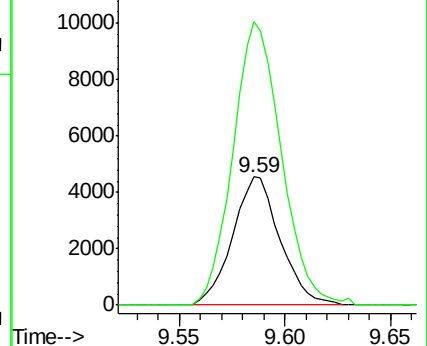
106 100

91 220.9 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 1.891 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010954.D

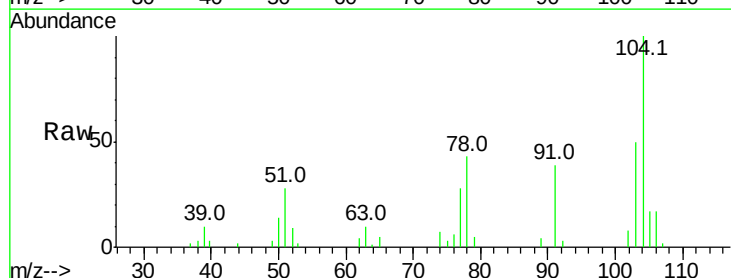
Acq: 20 May 2019 12:14

Tgt Ion:104 Resp: 12018

Ion Ratio Lower Upper

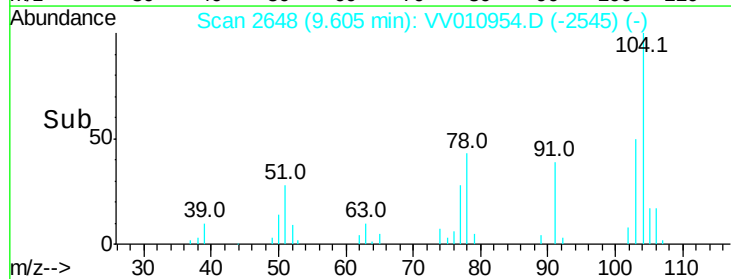
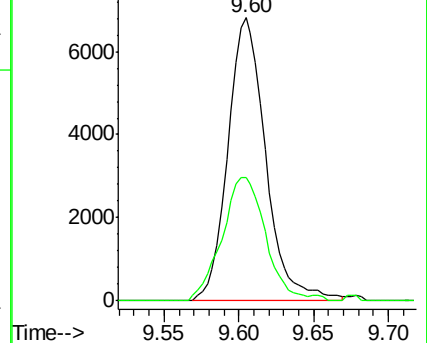
104 100

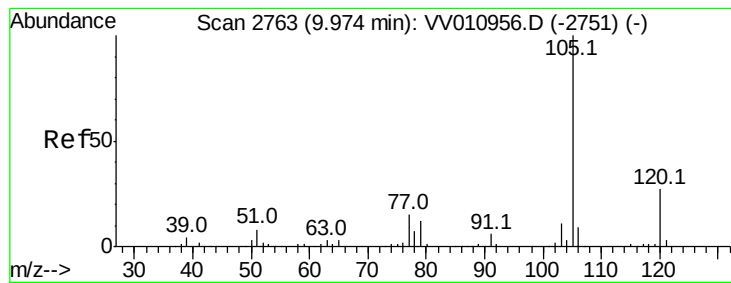
78 43.4 29.2 54.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 2.137 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.565

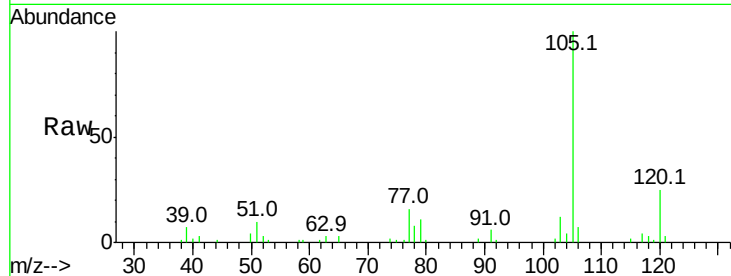
Tgt Ion:105 Resp: 19828

Ion Ratio Lower Upper

105 100

120 24.2 21.9 32.9

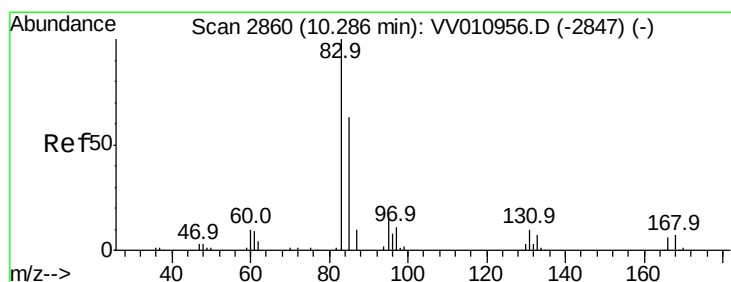
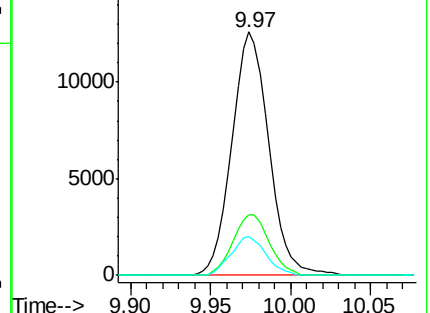
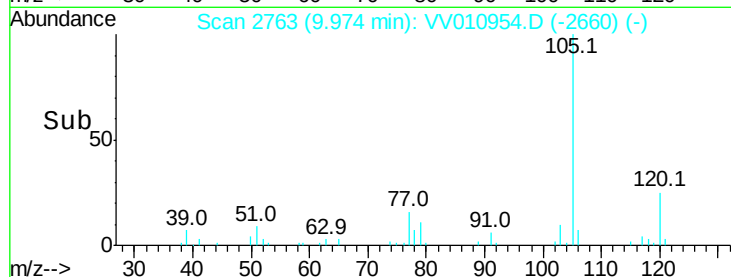
77 14.9 12.2 18.2



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 2.202 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

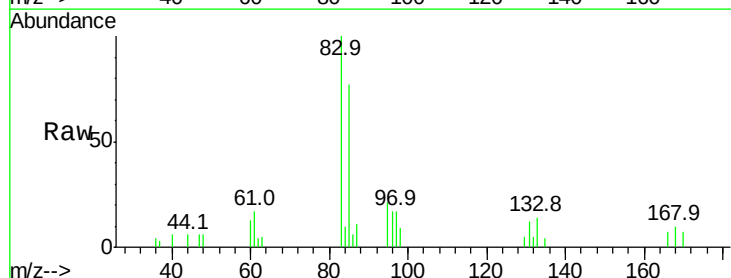
Tgt Ion: 83 Resp: 5016

Ion Ratio Lower Upper

83 100

85 77.0 44.4 82.5

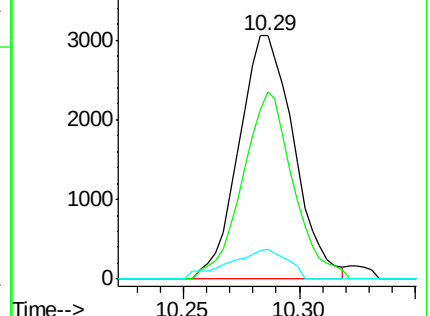
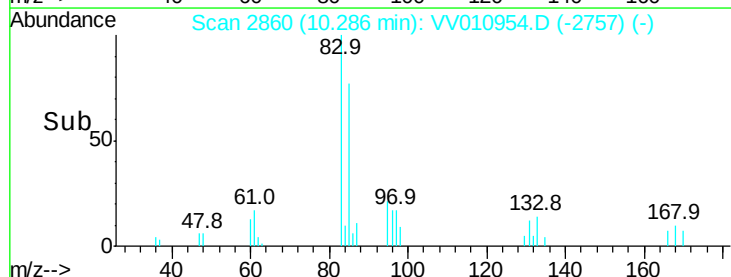
131 16.7 8.2 12.4#

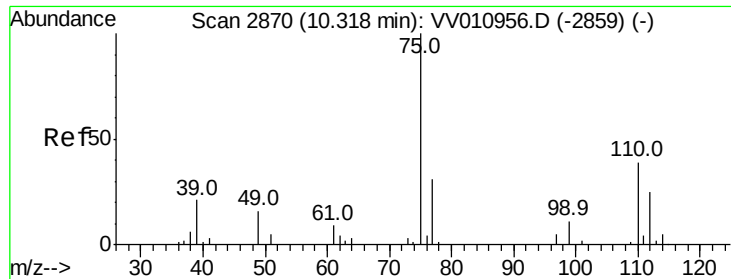


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

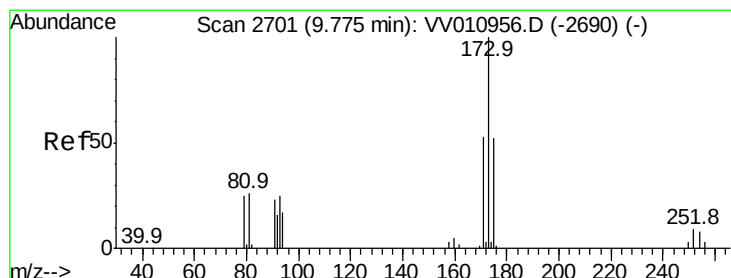
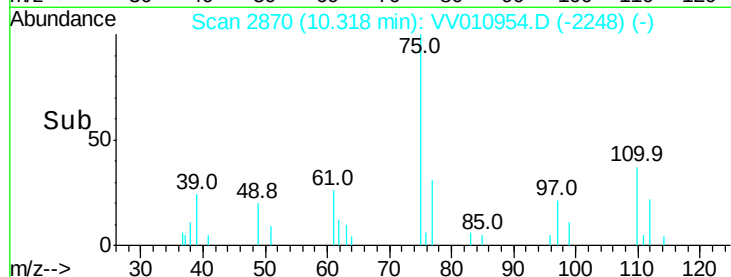
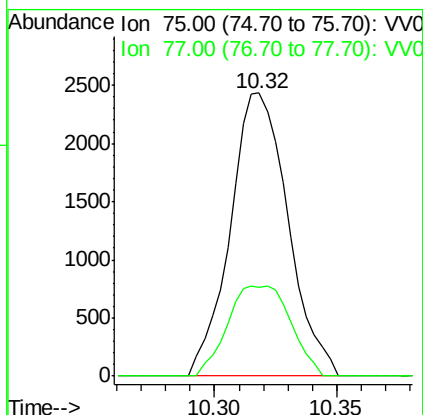
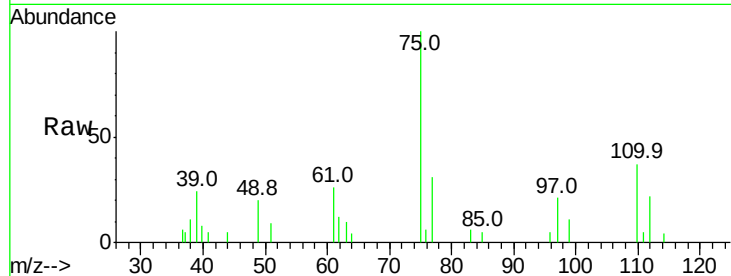




#59
 1,2,3-Trichloropropane
 Concen: 2.422 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

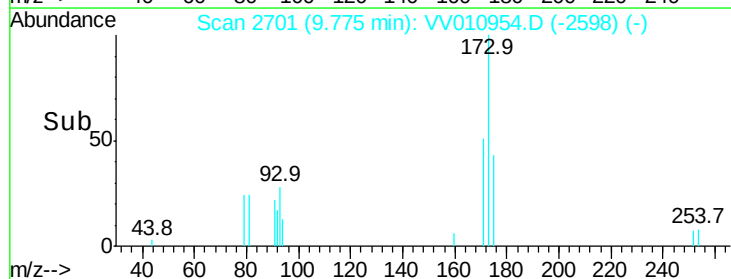
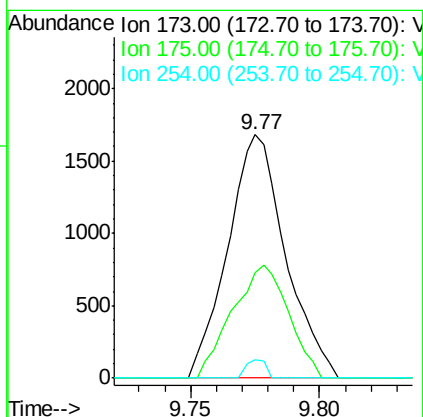
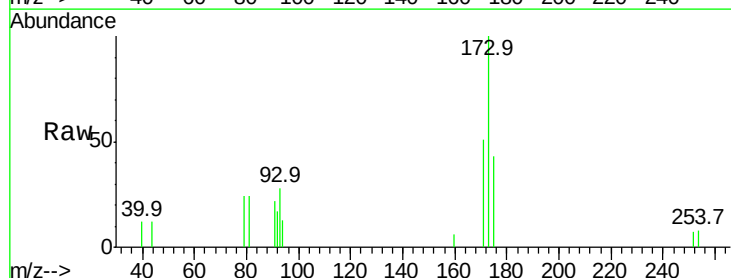
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.565

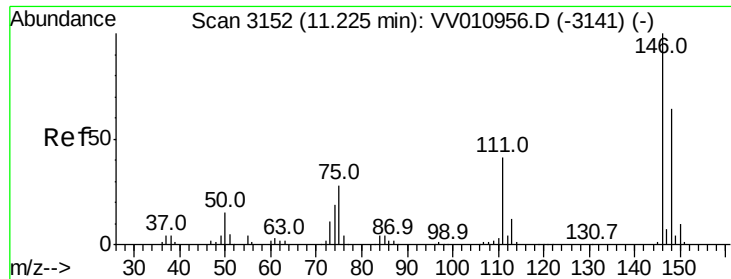
Tgt Ion: 75 Resp: 3997
 Ion Ratio Lower Upper
 75 100
 77 19.2 25.4 38.2#



#62
 Bromoform
 Concen: 2.744 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

Tgt Ion: 173 Resp: 2618
 Ion Ratio Lower Upper
 173 100
 175 45.1 40.3 60.5
 254 2.6 6.1 9.1#

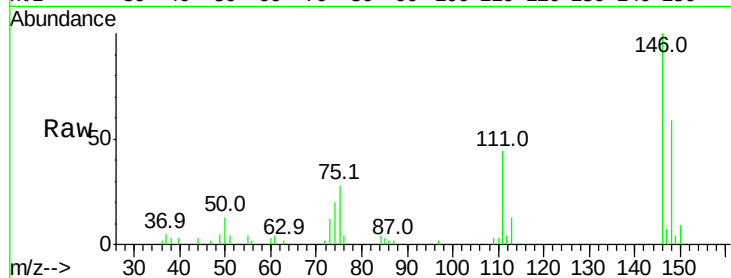




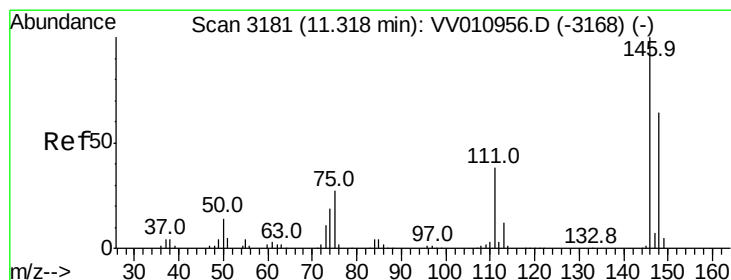
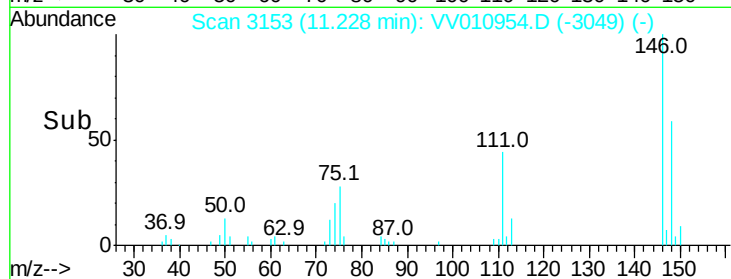
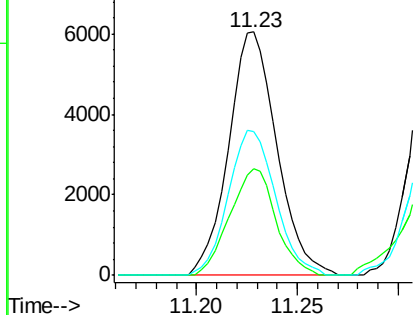
#63
 1,3-Dichlorobenzene
 Concen: 2.399 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.565

Tgt Ion:146 Resp: 10131
 Ion Ratio Lower Upper
 146 100
 111 43.8 28.4 52.8
 148 59.2 44.8 83.2

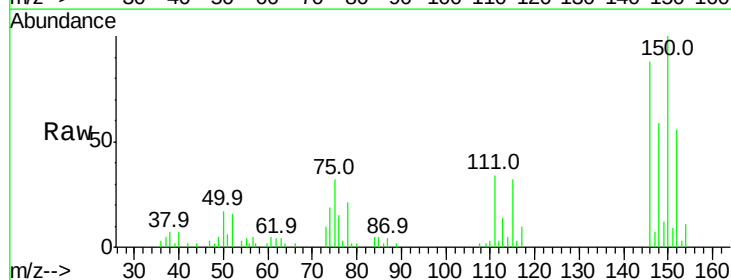


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

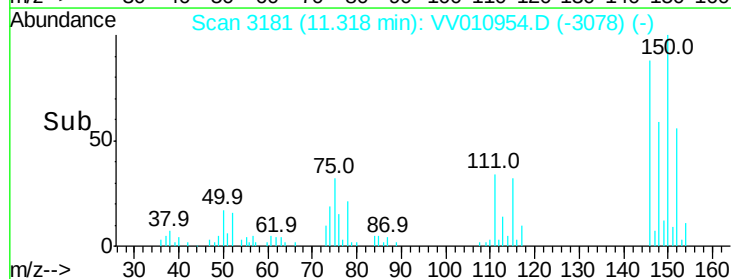
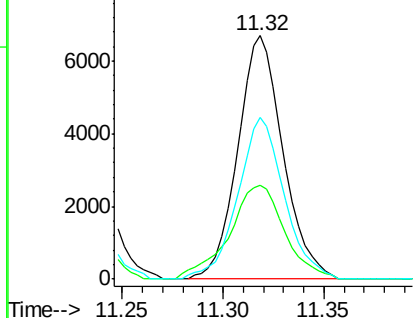


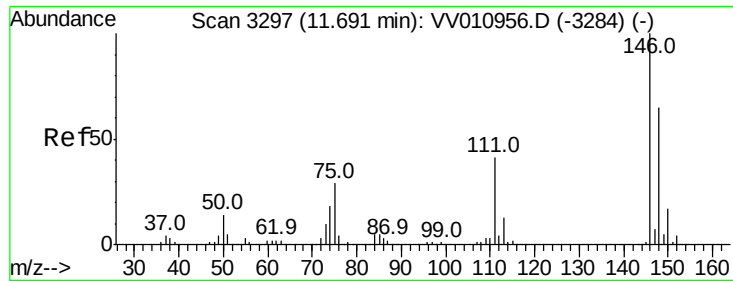
#64
 1,4-Dichlorobenzene
 Concen: 2.410 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

Tgt Ion:146 Resp: 10547
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.5 49.1
 148 66.4 45.0 83.6



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: 2.268 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.565

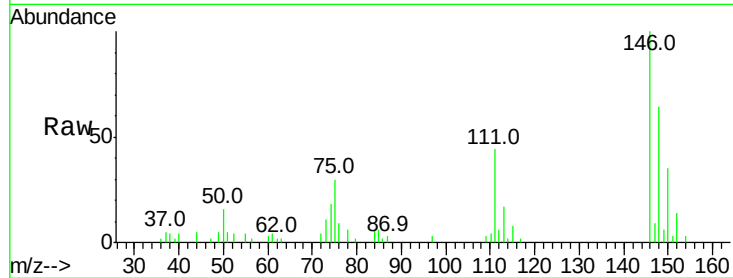
Tgt Ion:146 Resp: 9558

Ion Ratio Lower Upper

146 100

111 44.5 32.8 49.2

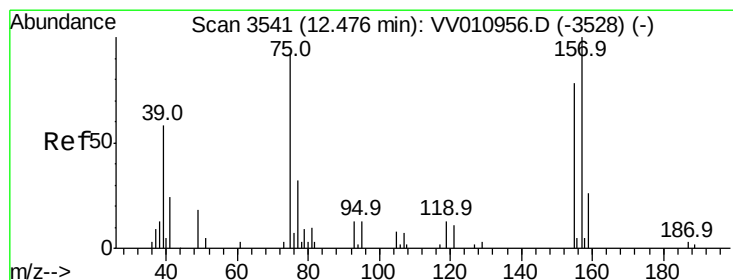
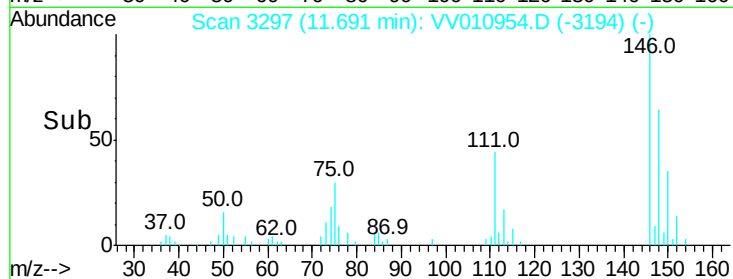
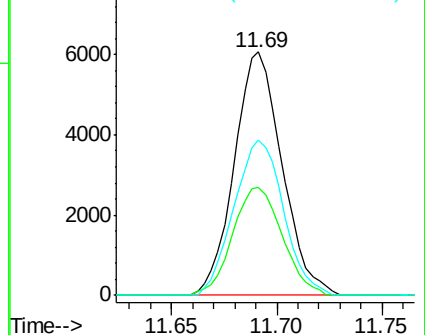
148 63.5 51.9 77.9



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: 3.409 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.22 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

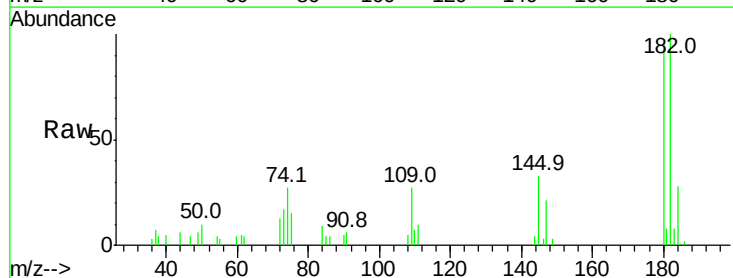
Tgt Ion: 75 Resp: 1076

Ion Ratio Lower Upper

75 100

157 0.0 87.0 130.4#

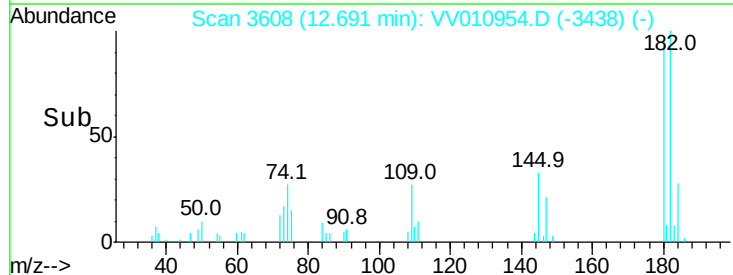
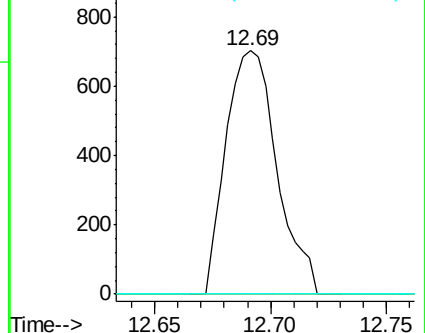
155 0.0 67.8 101.8#

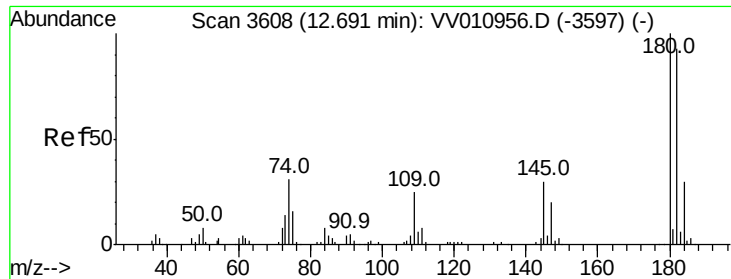


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

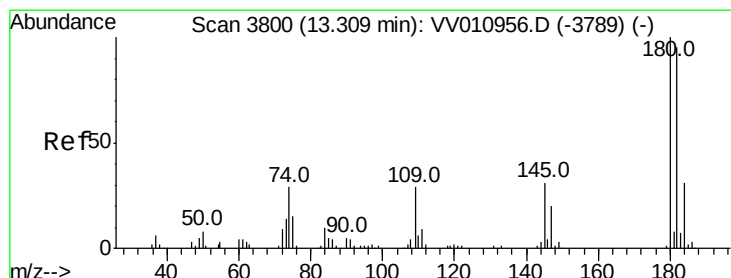
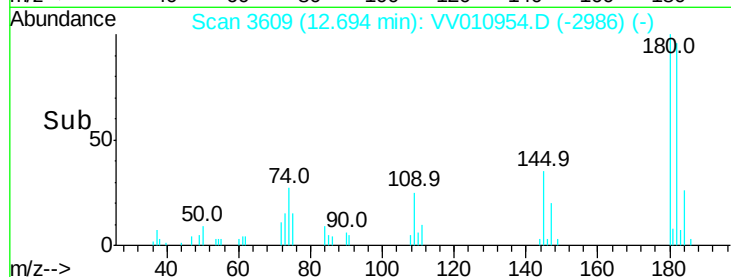
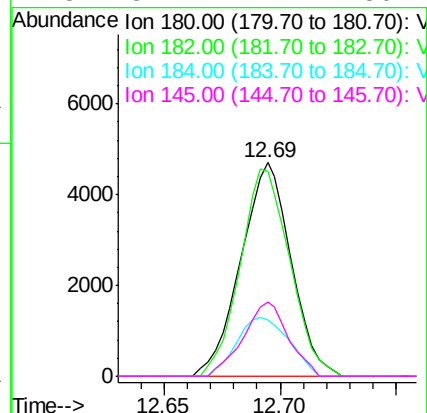
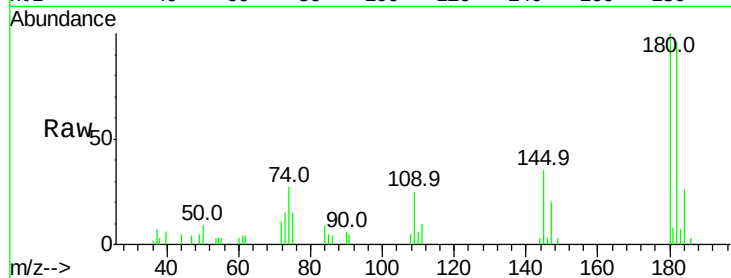




#67
 1,3,5-Trichlorobenzene
 Concen: 2.300 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

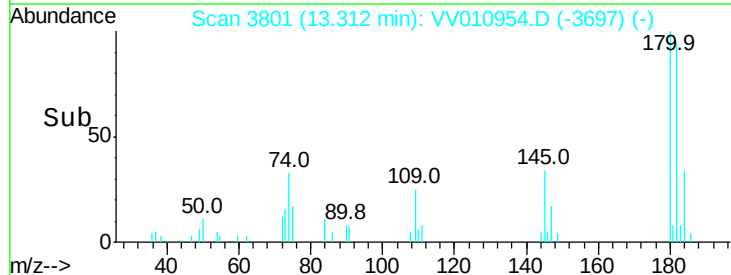
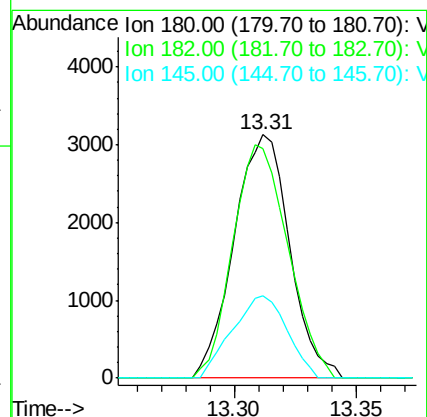
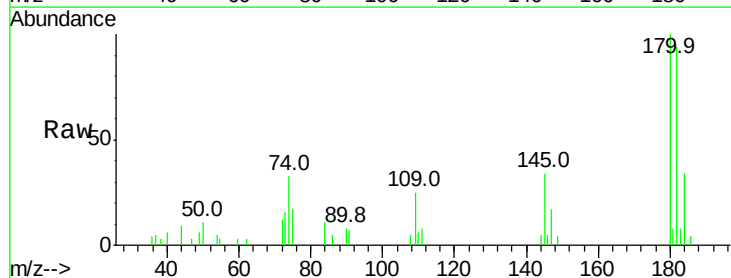
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.565

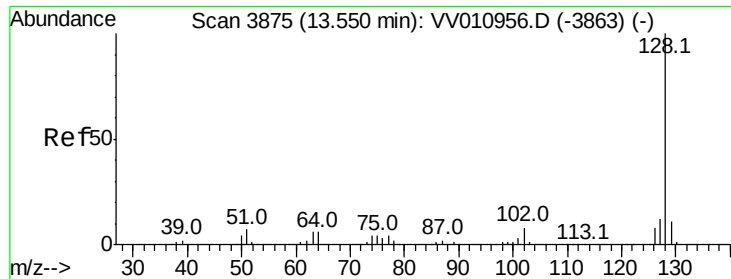
Tgt Ion:180 Resp: 7081
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.2 114.2
 184 28.6 24.6 37.0
 145 31.2 24.1 36.1



#68
 1,2,4-trichlorobenzene
 Concen: 1.994 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010954.D
 Acq: 20 May 2019 12:14

Tgt Ion:180 Resp: 4956
 Ion Ratio Lower Upper
 180 100
 182 95.1 75.4 113.2
 145 33.3 25.1 37.7





#69

Naphthalene

Concen: 1.441 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.565

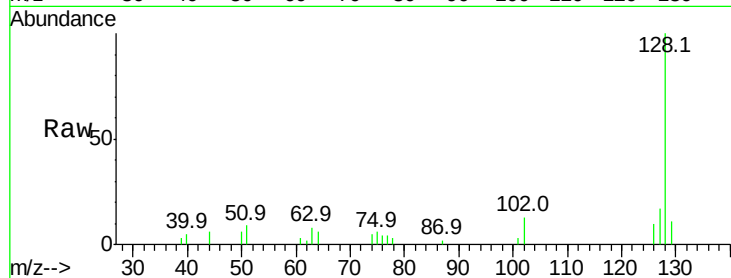
Tgt Ion:128 Resp: 7502

Ion Ratio Lower Upper

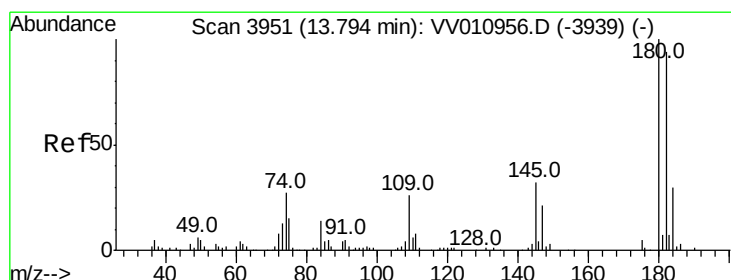
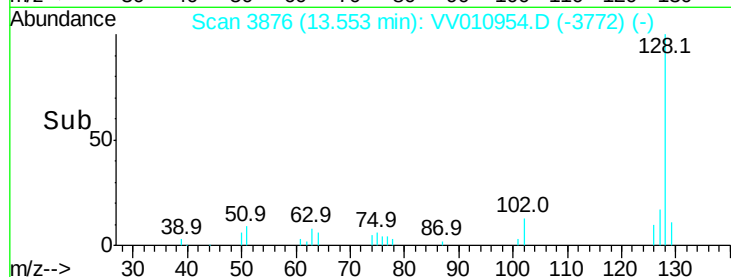
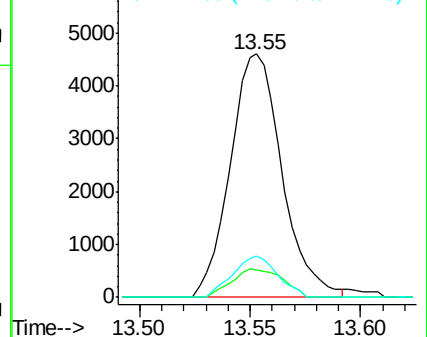
128 100

129 11.3 8.6 12.8

127 14.7 10.3 15.5



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: 2.087 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV010954.D

Acq: 20 May 2019 12:14

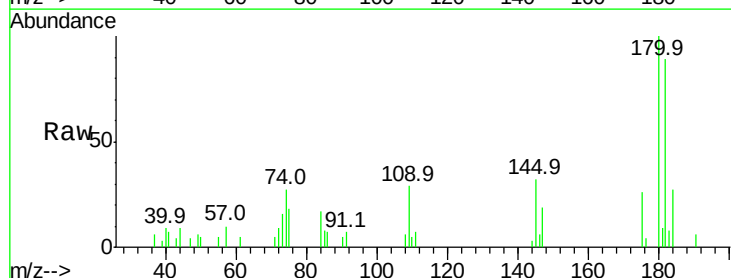
Tgt Ion:180 Resp: 4938

Ion Ratio Lower Upper

180 100

182 88.6 75.7 113.5

145 31.6 26.9 40.3



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

