

Data File : VV009601.D
Acq On : 12 Mar 2019 10:39
Operator : SY/MD
Sample : VSTD00561
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Quant Time: Mar 13 01:50:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031219WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 13 01:47:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	165675	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	160771	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	65312	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	4820	4.92	ug/L	0.00
7) Chloroethane-d5	1.55	69	5534	5.42	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	12735	4.92	ug/L	0.00
21) 2-Butanone-d5	3.94	46	6420	8.86	ug/L	0.00
24) Chloroform-d	4.40	84	10275	4.80	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	7119	5.02	ug/L	0.00
32) Benzene-d6	5.10	84	21131	5.05	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	6089	4.87	ug/L	0.00
41) Toluene-d8	7.36	98	19213	4.72	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	2881	4.46	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	5049	9.23	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	8913	4.44	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.68	152	6984	5.07	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	4354	4.156	ug/L	96
3) Chloromethane	1.25	50	4709	4.706	ug/L	93
5) Vinyl chloride	1.32	62	4705	4.409	ug/L	89
6) Bromomethane	1.51	94	4319	4.745	ug/L	100
8) Chloroethane	1.58	64	4001	4.815	ug/L	89
9) Trichlorofluoromethane	1.75	101	10000	4.420	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	5298	4.224	ug/L	97
12) 1,1-Dichloroethene	2.13	96	4611	4.297	ug/L	84
13) Acetone	2.19	43	7011	9.180	ug/L	97
14) Carbon disulfide	2.31	76	11305	4.223	ug/L	99
15) Methyl Acetate	2.46	43	4289	4.333	ug/L	97
16) Methylene chloride	2.53	84	4666	4.468	ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	4456	4.553	ug/L	93
18) Methyl tert-butyl Ether	2.81	73	13363	4.249	ug/L	99
19) 1,1-Dichloroethane	3.23	63	7830	4.327	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	4659	4.093	ug/L	87
22) 2-Butanone	4.03	43	7355	8.874	ug/L	84
23) Bromochloromethane	4.30	128	2283	3.974	ug/L	90
25) Chloroform	4.43	83	9380	4.624	ug/L	90
27) 1,2-Dichloroethane	5.18	62	6928	4.359	ug/L #	94
29) Cyclohexane	4.72	56	6764	4.322	ug/L	97
30) 1,1,1-Trichloroethane	4.66	97	7021	4.131	ug/L	96
31) Carbon tetrachloride	4.87	117	5511	3.886	ug/L	99
33) Benzene	5.15	78	17639	4.372	ug/L	100
34) Trichloroethene	5.96	95	4534	4.210	ug/L	94
35) Methylcyclohexane	6.18	83	7398	4.246	ug/L	98
37) 1,2-Dichloropropane	6.22	63	4464	4.341	ug/L #	87
38) Bromodichloromethane	6.56	83	5994	4.133	ug/L #	89
39) cis-1,3-Dichloropropene	7.07	75	6628	4.043	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	11055	7.997	ug/L	98

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QLast Update : Wed Mar 13 01:47:22 2019
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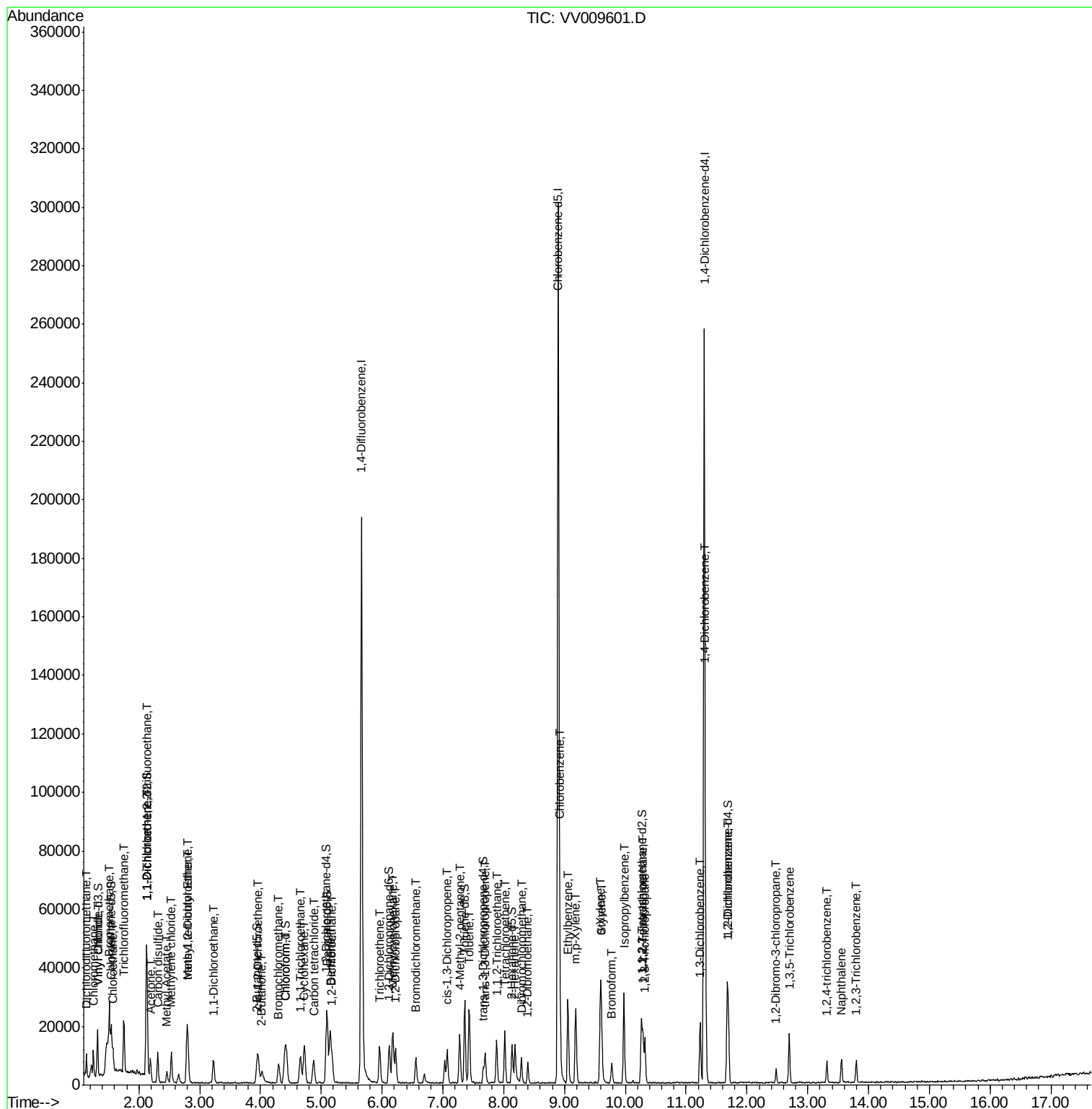
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	19049	4.142	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	5662	3.679	ug/L	93
45) 1,1,2-Trichloroethane	7.88	97	4313	4.066	ug/L	87
46) Tetrachloroethene	8.02	164	3943	4.657	ug/L	89
48) 2-Hexanone	8.19	43	8659	7.861	ug/L #	96
49) Dibromochloromethane	8.29	129	4066	3.444	ug/L	78
50) 1,2-Dibromoethane	8.40	107	4361	3.881	ug/L #	90
51) Chlorobenzene	8.93	112	12522	4.056	ug/L	98
52) Ethylbenzene	9.06	91	21129	4.055	ug/L	90
53) m,p-Xylene	9.18	106	7587	3.801	ug/L	92
54) o-Xylene	9.59	106	8022	3.982	ug/L	95
55) Styrene	9.61	104	11342	3.475	ug/L	98
56) Isopropylbenzene	9.98	105	20408	3.890	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	7706	4.109	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	5636	4.042	ug/L	96
61) Bromoform	9.78	173	3147	4.273	ug/L #	89
62) 1,3-Dichlorobenzene	11.23	146	8405	4.233	ug/L	95
63) 1,4-Dichlorobenzene	11.32	146	8426	4.305	ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	8702	4.277	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.48	75	1252	4.072	ug/L	95
67) 1,3,5-Trichlorobenzene	12.70	180	5287	4.108	ug/L	91
68) 1,2,4-trichlorobenzene	13.31	180	2534	2.845	ug/L	95
69) Naphthalene	13.56	128	6654	2.653	ug/L	97
70) 1,2,3-Trichlorobenzene	13.80	180	2715	2.893	ug/L #	96

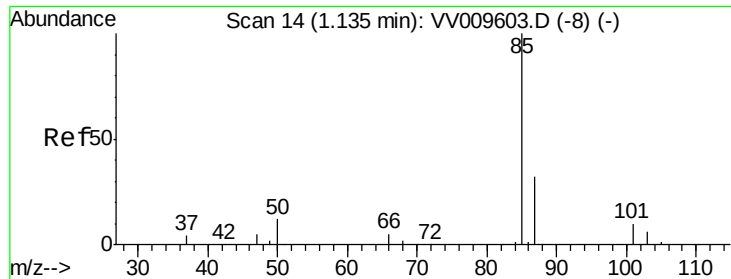
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.156 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

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Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

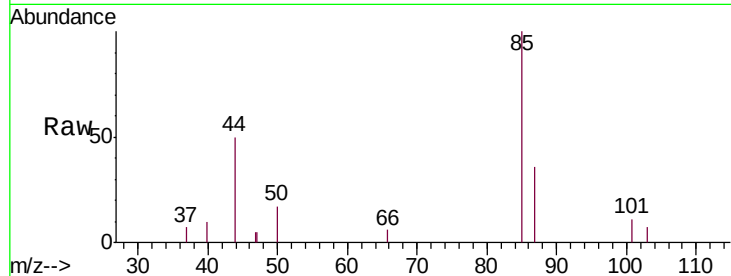
VSTD00561

Tgt Ion: 85 Resp: 4354

Ion Ratio Lower Upper

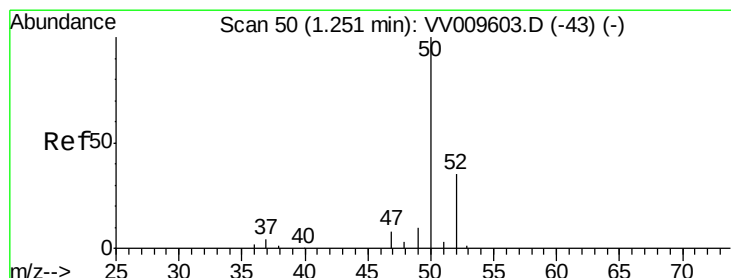
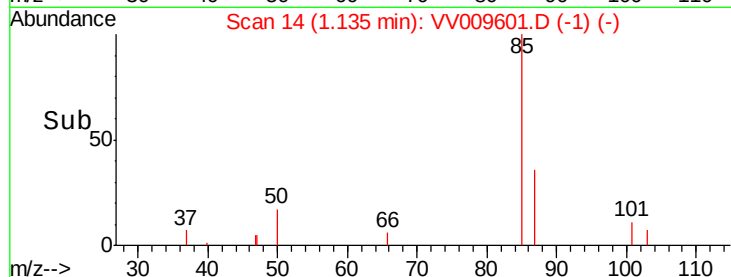
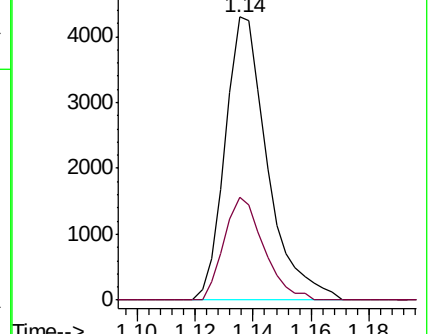
85 100

87 34.1 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV009603.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009603.D (-8) (-)



#3

Chloromethane

Concen: 4.706 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009601.D

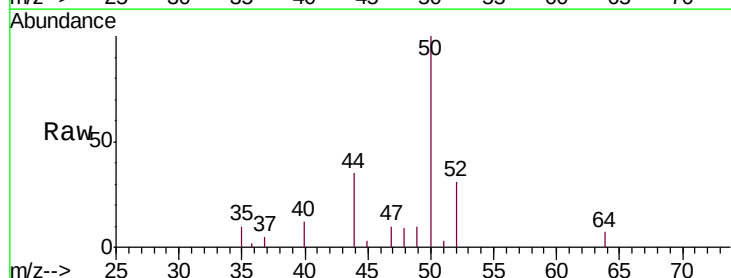
Acq: 12 Mar 2019 10:39

Tgt Ion: 50 Resp: 4709

Ion Ratio Lower Upper

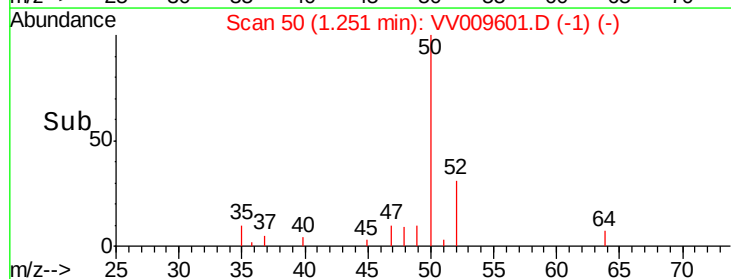
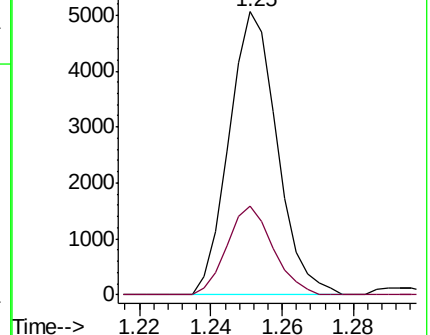
50 100

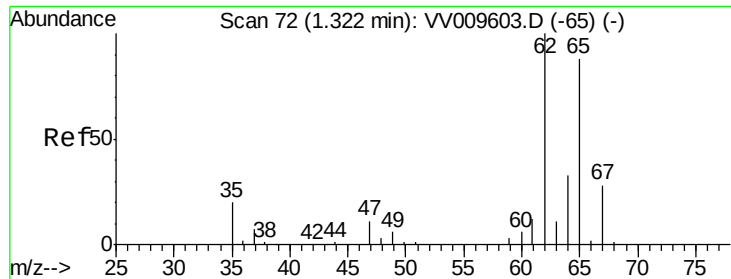
52 31.4 24.7 45.9



Abundance Ion 50.00 (49.70 to 50.70): VV009603.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009603.D (-43) (-)





#5

Vinyl chloride

Concen: 4.409 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

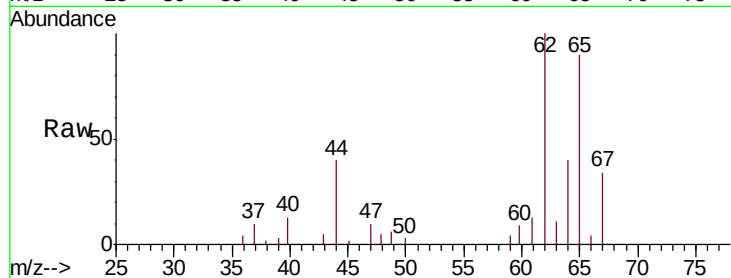
VSTD00561

Tgt Ion: 62 Resp: 4705

Ion Ratio Lower Upper

62 100

64 40.4 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

4000

3000

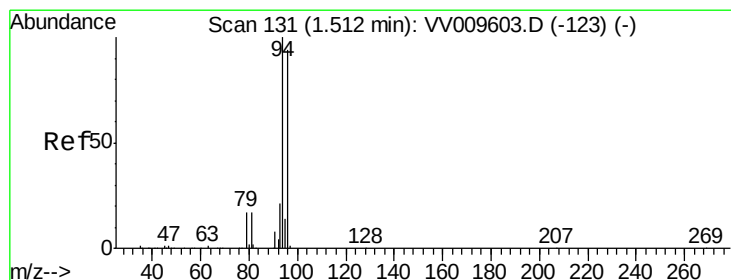
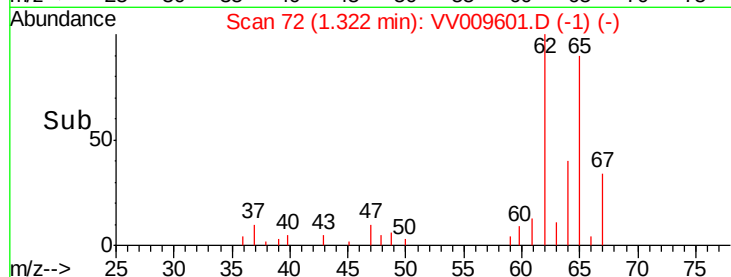
2000

1000

0

1.30 1.32 1.34 1.36

Time-->



#6

Bromomethane

Concen: 4.745 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.00 min

Lab File: VV009601.D

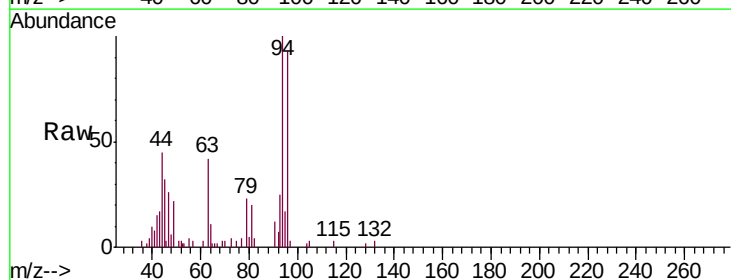
Acq: 12 Mar 2019 10:39

Tgt Ion: 94 Resp: 4319

Ion Ratio Lower Upper

94 100

96 93.3 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

4000

3000

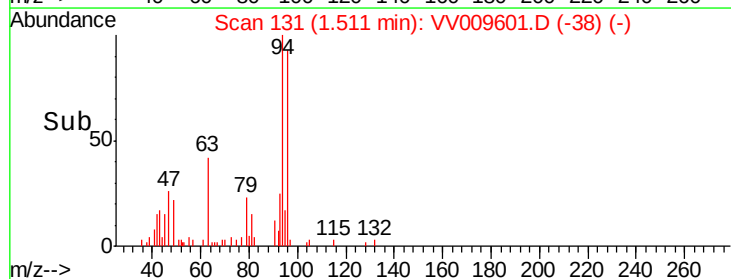
2000

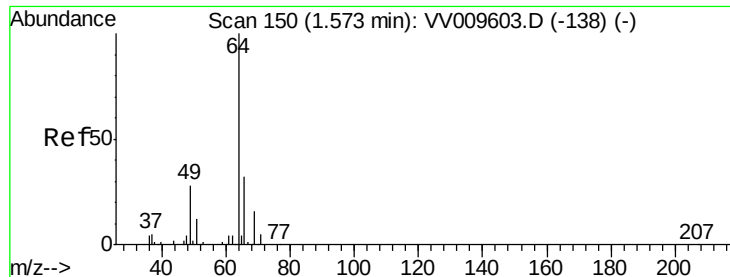
1000

0

1.50 1.51 1.52 1.53 1.54 1.55

Time-->





#8

Chloroethane

Concen: 4.815 ug/L

RT: 1.58 min Scan# 151

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

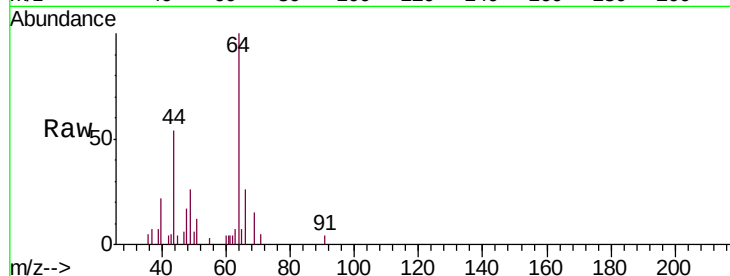
VSTD00561

Tgt Ion: 64 Resp: 4001

Ion Ratio Lower Upper

64 100

66 25.5 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV009601.D (-138) (-)

Ion 66.00 (65.70 to 66.70): VV009601.D (-138) (-)

1.58

3000

2000

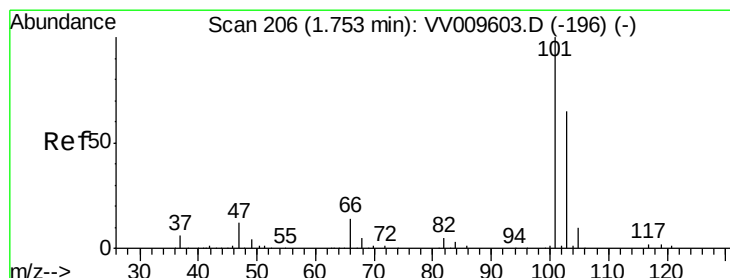
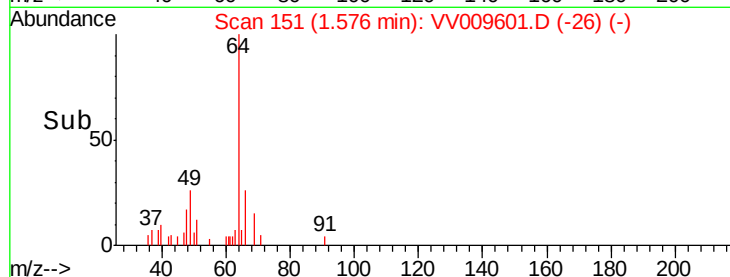
1000

0

Time-->

1.55

1.60



#9

Trichlorofluoromethane

Concen: 4.420 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.00 min

Lab File: VV009601.D

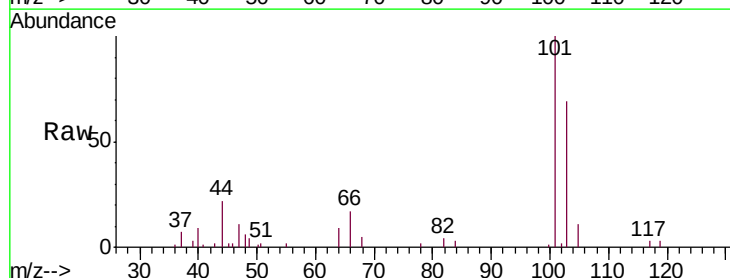
Acq: 12 Mar 2019 10:39

Tgt Ion: 101 Resp: 10000

Ion Ratio Lower Upper

101 100

103 65.7 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV009601.D (-196) (-)

Ion 103.00 (102.70 to 103.70): VV009601.D (-196) (-)

1.75

8000

6000

4000

2000

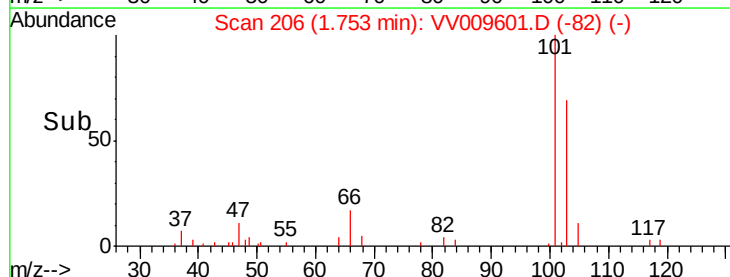
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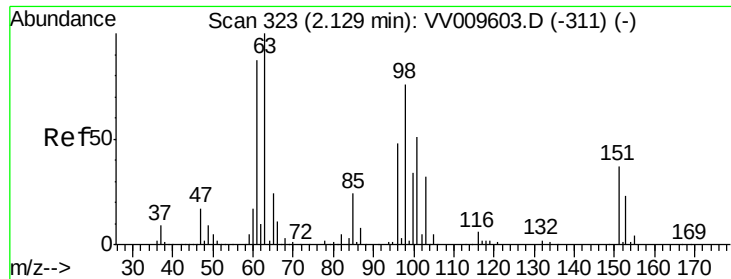
Time-->

1.70

1.75

1.80





#10

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

Concen: 4.224 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

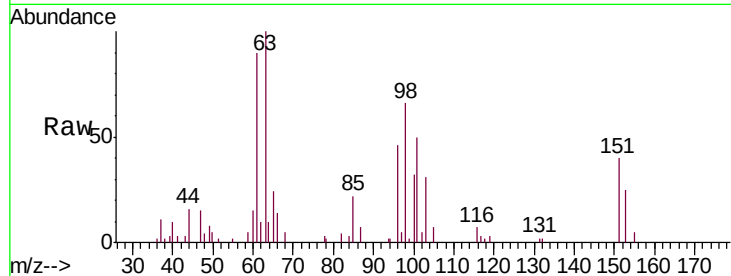
Tgt Ion:101 Resp: 5298

Ion Ratio Lower Upper

101 100

85 49.8 37.8 56.6

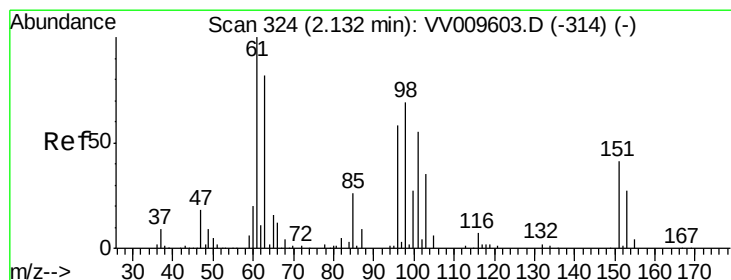
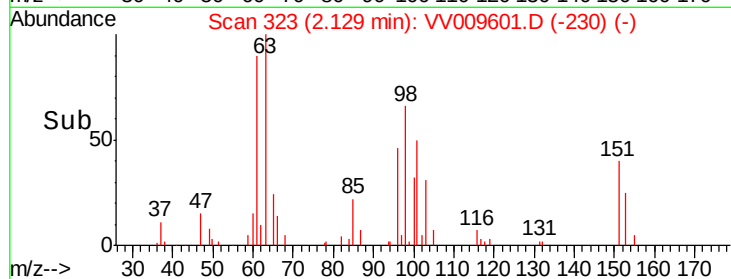
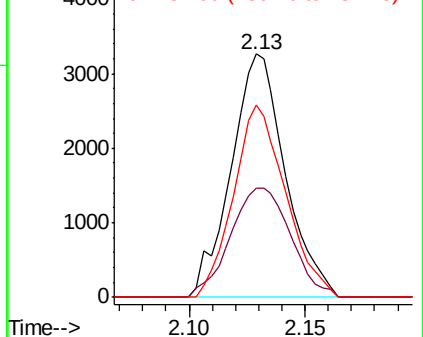
151 75.9 59.6 89.4



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: 4.297 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

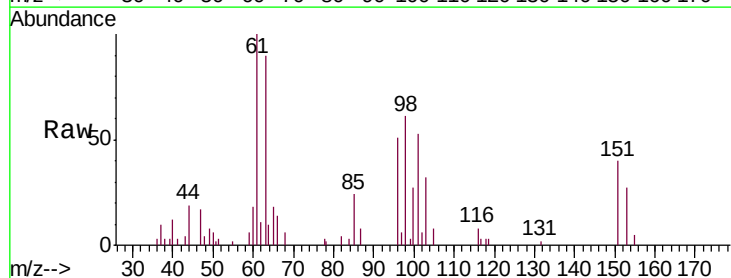
Tgt Ion: 96 Resp: 4611

Ion Ratio Lower Upper

96 100

61 194.3 122.1 226.7

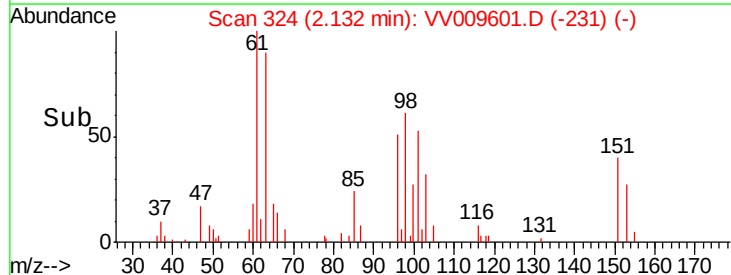
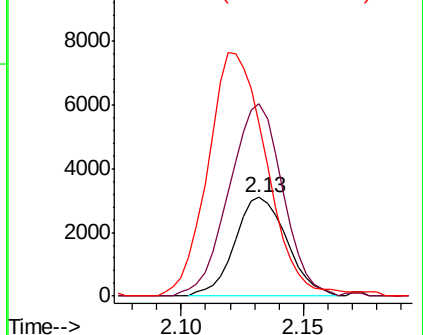
63 175.5 107.6 199.8

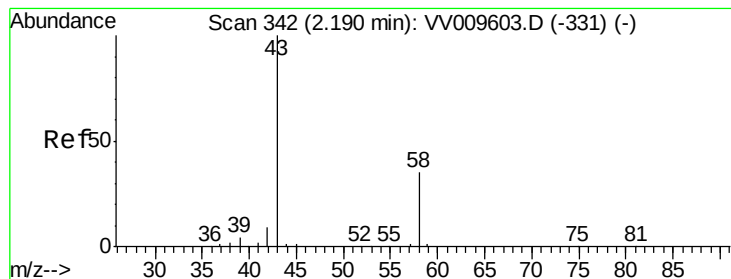


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 9.180 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

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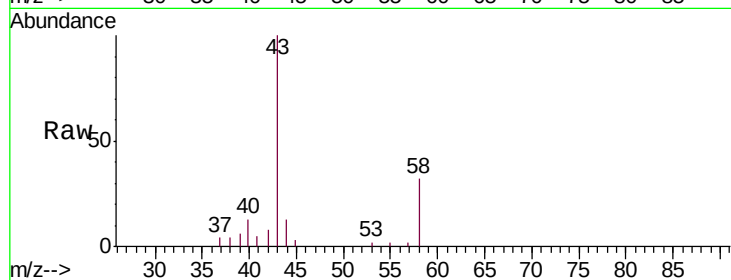
VSTD00561

Tgt Ion: 43 Resp: 7011

Ion Ratio Lower Upper

43 100

58 32.6 0.0 69.0



Abundance Ion 43.00 (42.70 to 43.70): VV009601.D (-249) (-)

Ion 58.00 (57.70 to 58.70): VV009601.D (-249) (-)

2.19

5000

4000

3000

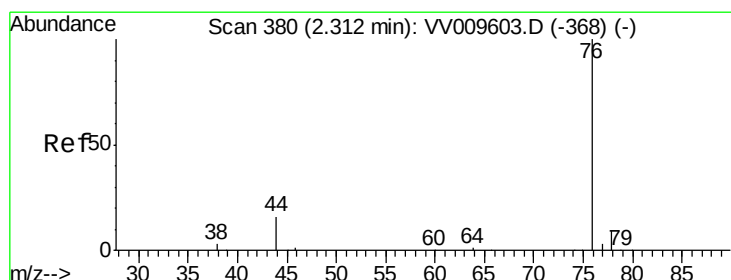
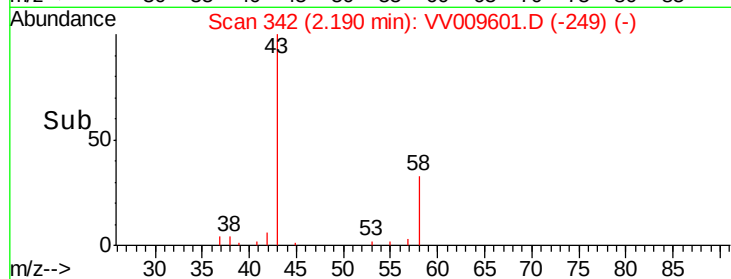
2000

1000

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 4.223 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009601.D

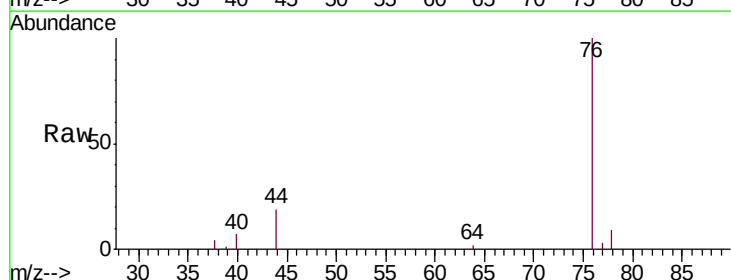
Acq: 12 Mar 2019 10:39

Tgt Ion: 76 Resp: 11305

Ion Ratio Lower Upper

76 100

78 9.2 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VV009601.D (-287) (-)

Ion 78.00 (77.70 to 78.70): VV009601.D (-287) (-)

2.31

8000

6000

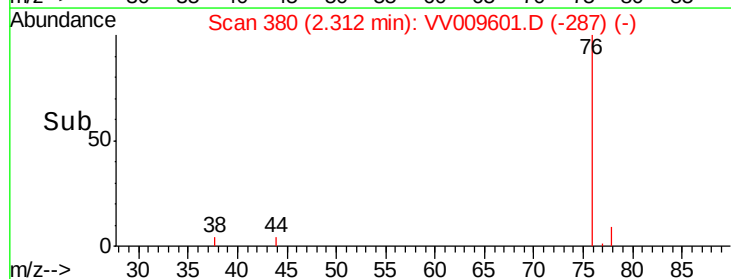
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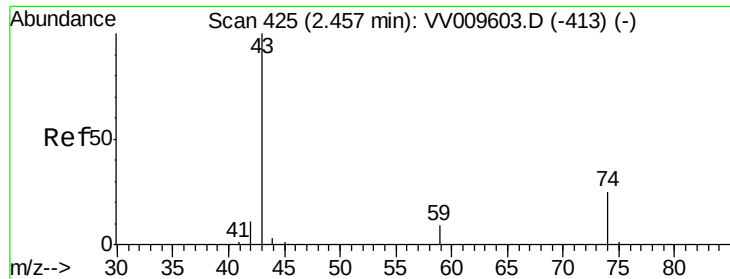
2000

0

Time-->

2.25 2.30 2.35





#15

Methyl Acetate

Concen: 4.333 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

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MSVOA_V

ClientSampled :

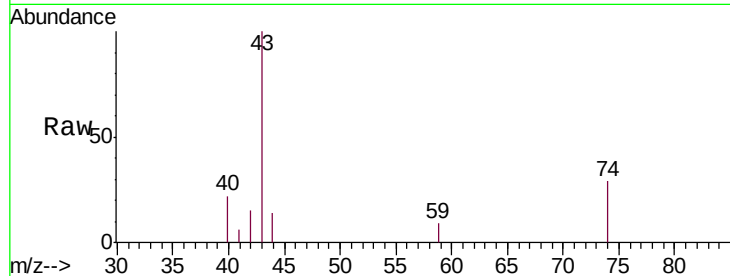
VSTD00561

Tgt Ion: 43 Resp: 4289

Ion Ratio Lower Upper

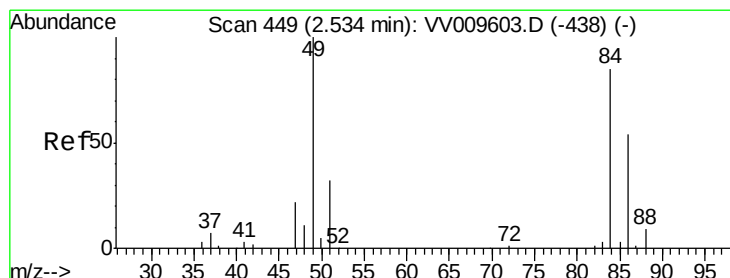
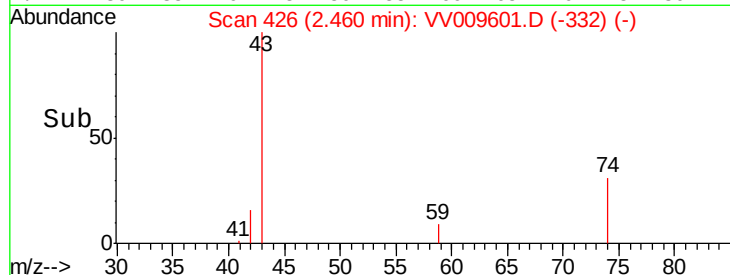
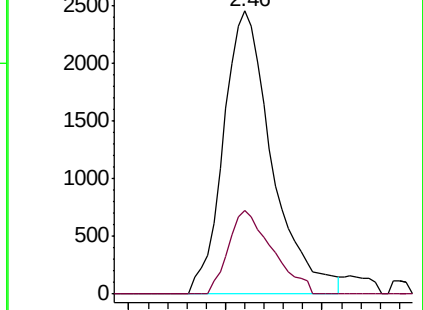
43 100

74 26.5 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VV009601.D (-332) (-)

Ion 74.00 (73.70 to 74.70): VV009601.D (-332) (-)



#16

Methylene chloride

Concen: 4.468 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

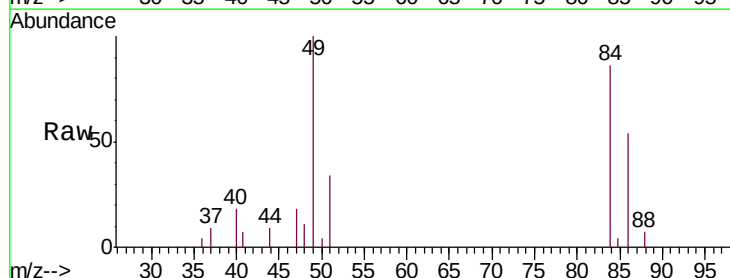
Tgt Ion: 84 Resp: 4666

Ion Ratio Lower Upper

84 100

86 62.5 44.0 81.6

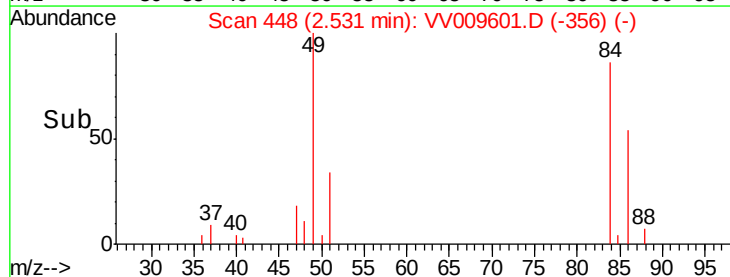
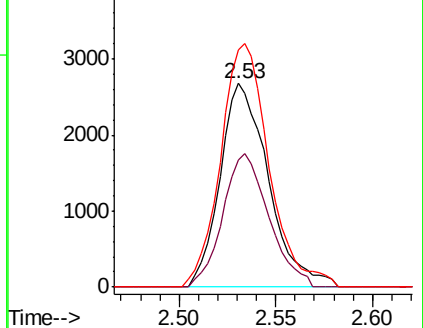
49 116.3 82.0 152.4

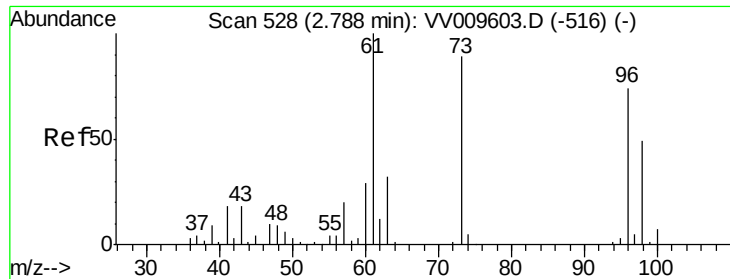


Abundance Ion 84.00 (83.70 to 84.70): VV009601.D (-356) (-)

Ion 86.00 (85.70 to 86.70): VV009601.D (-356) (-)

Ion 49.00 (48.70 to 49.70): VV009601.D (-356) (-)

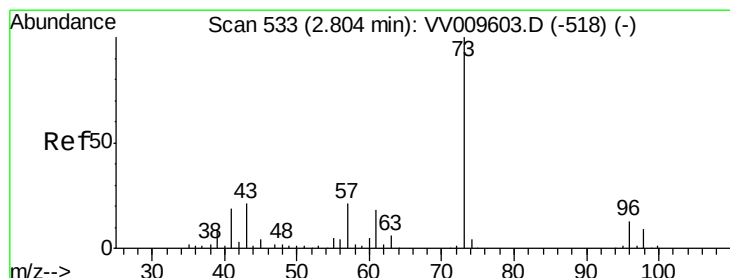
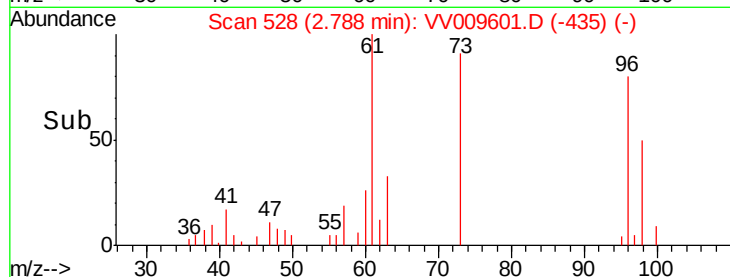
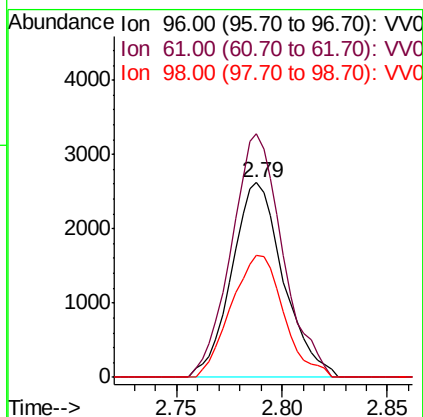
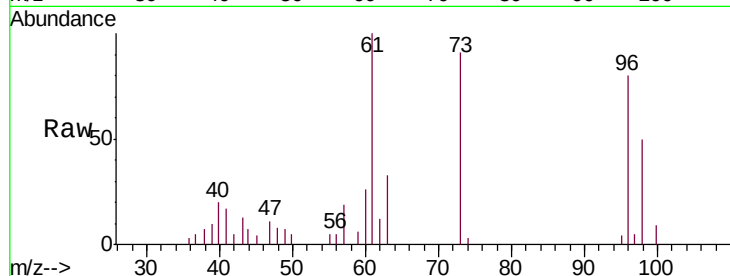




#17
trans-1,2-Dichloroethene
Concen: 4.553 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

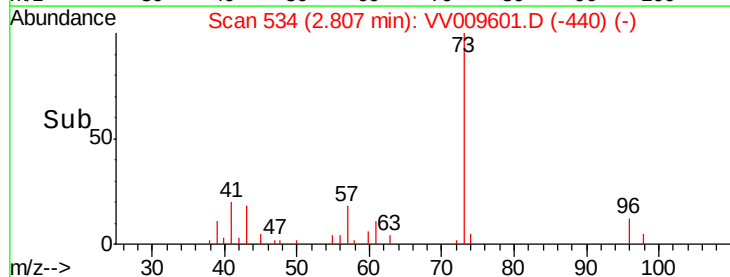
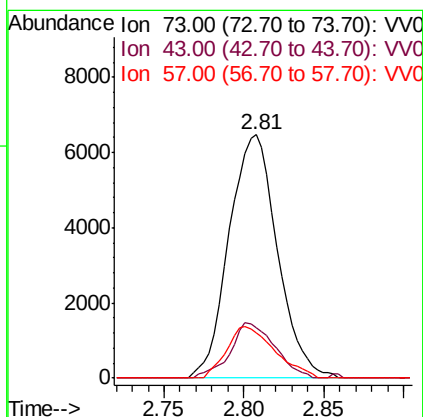
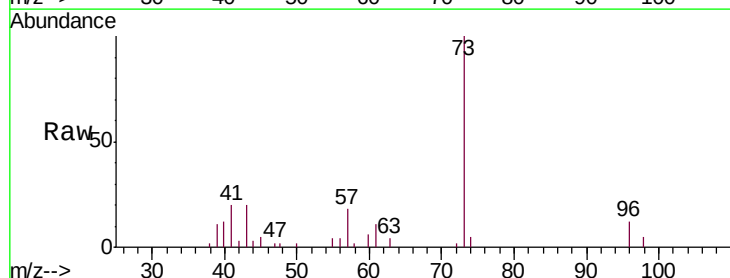
Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

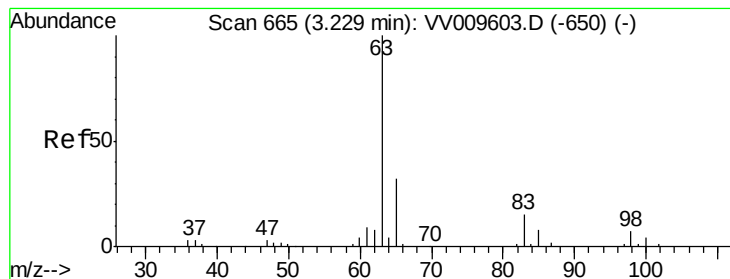
Tgt Ion: 96 Resp: 4456
Ion Ratio Lower Upper
96 100
61 125.1 94.0 174.6
98 62.4 45.8 85.2



#18
Methyl tert-butyl Ether
Concen: 4.249 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

Tgt Ion: 73 Resp: 13363
Ion Ratio Lower Upper
73 100
43 20.9 16.3 24.5
57 21.0 17.0 25.4





#19

1,1-Dichloroethane

Concen: 4.327 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleID :

VSTD00561

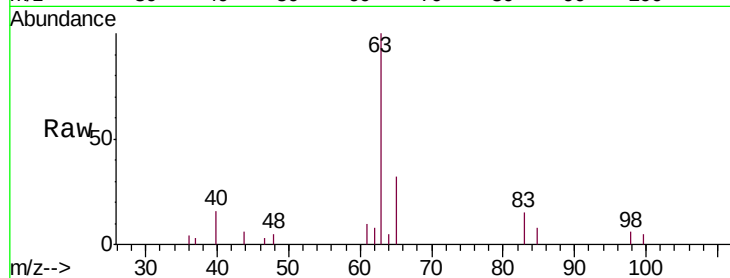
Tgt Ion: 63 Resp: 7830

Ion Ratio Lower Upper

63 100

65 31.8 22.5 41.7

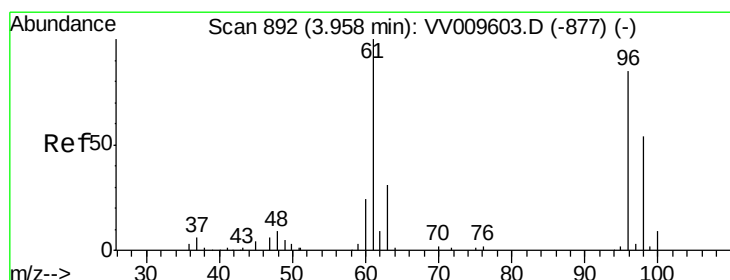
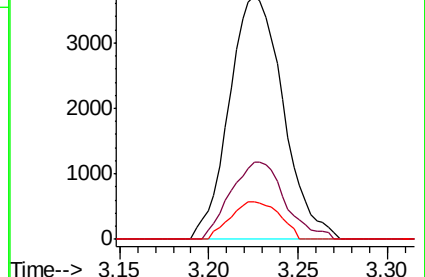
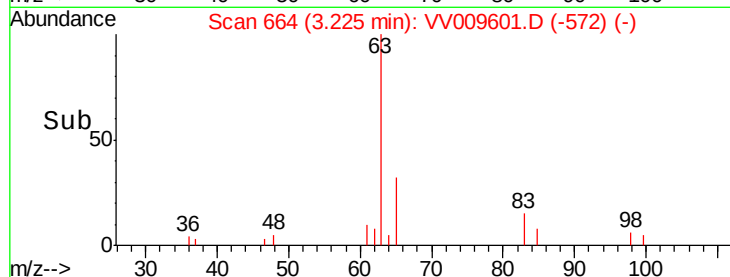
83 15.3 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV009601.D (-572) (-)

Ion 65.00 (64.70 to 65.70): VV009601.D (-572) (-)

Ion 83.00 (82.70 to 83.70): VV009601.D (-572) (-)



#20

cis-1,2-Dichloroethene

Concen: 4.093 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

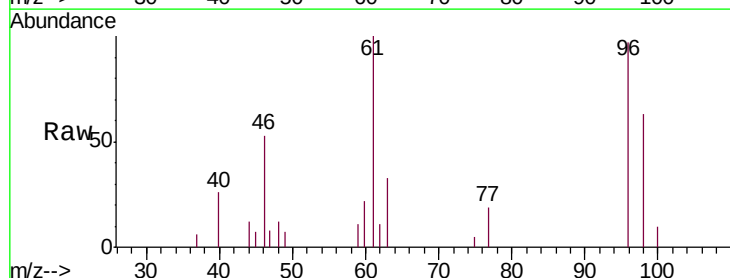
Tgt Ion: 96 Resp: 4659

Ion Ratio Lower Upper

96 100

61 103.4 82.4 153.0

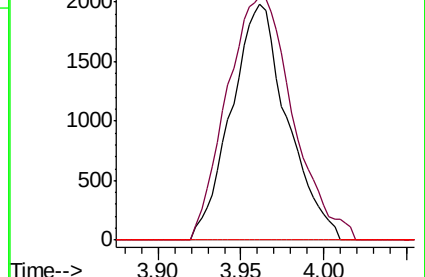
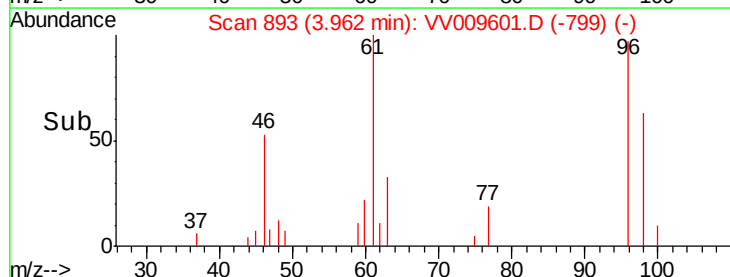
68 0.0 0.0 0.0

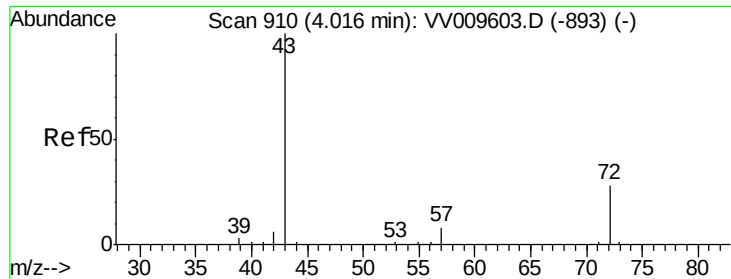


Abundance Ion 96.00 (95.70 to 96.70): VV009601.D (-799) (-)

Ion 61.00 (60.70 to 61.70): VV009601.D (-799) (-)

Ion 68.00 (67.70 to 68.70): VV009601.D (-799) (-)





#22

2-Butanone

Concen: 8.874 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.01 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

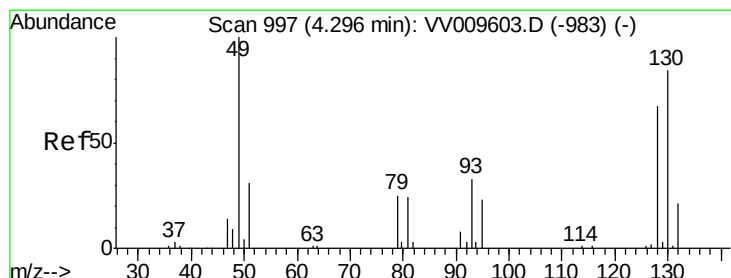
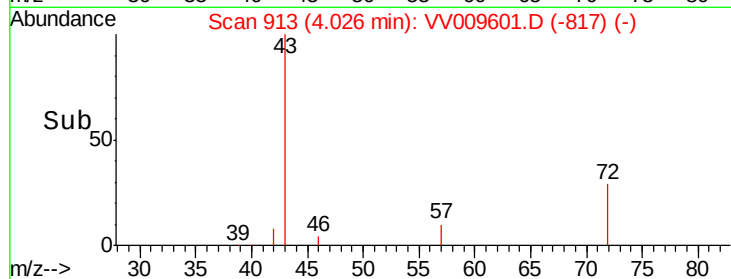
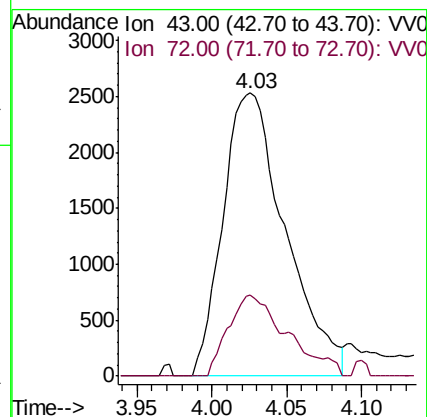
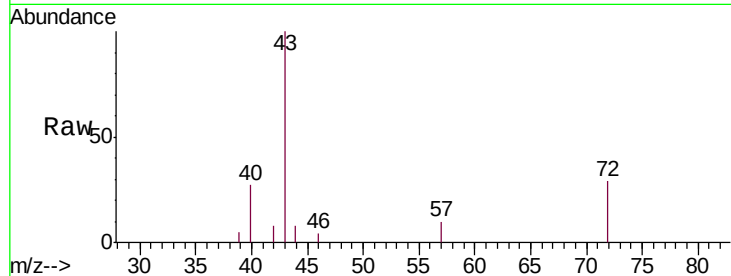
VSTD00561

Tgt Ion: 43 Resp: 7355

Ion Ratio Lower Upper

43 100

72 20.9 14.8 44.3



#23

Bromochloromethane

Concen: 3.974 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Tgt Ion: 128 Resp: 2283

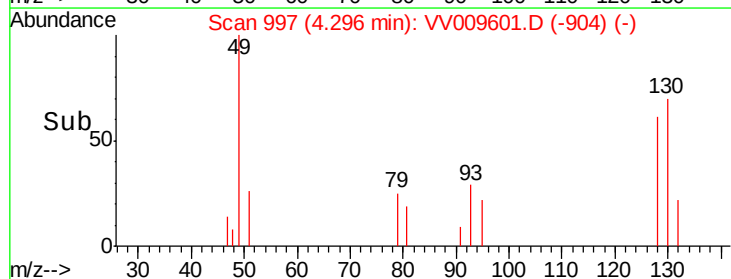
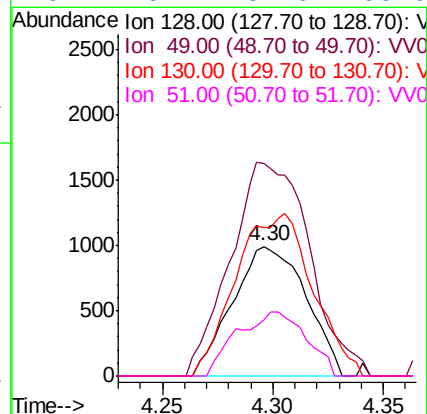
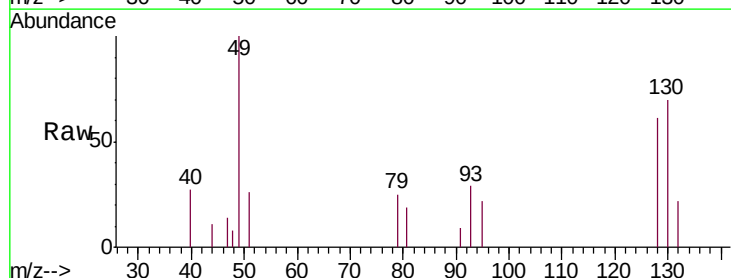
Ion Ratio Lower Upper

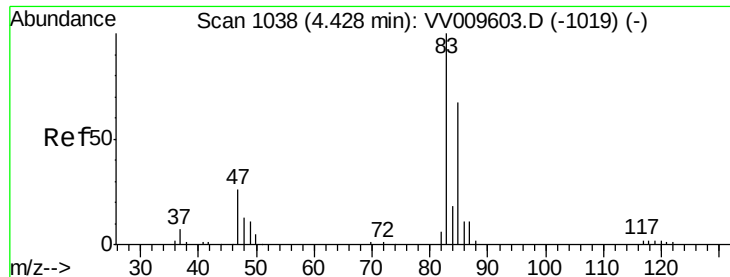
128 100

49 163.8 106.0 196.9

130 114.2 89.2 165.8

51 43.1 37.0 55.6

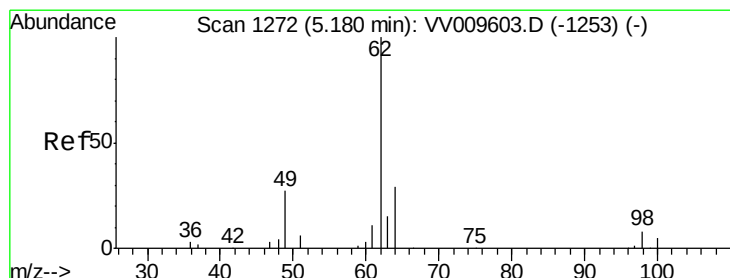
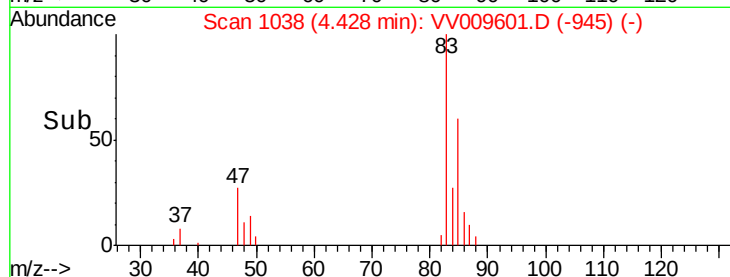
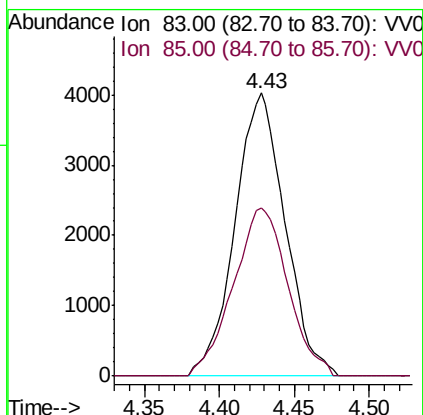
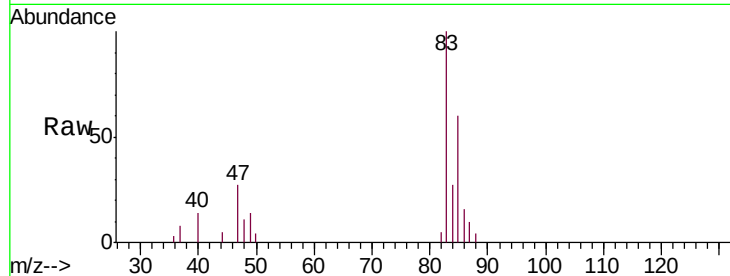




#25
Chloroform
Concen: 4.624 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

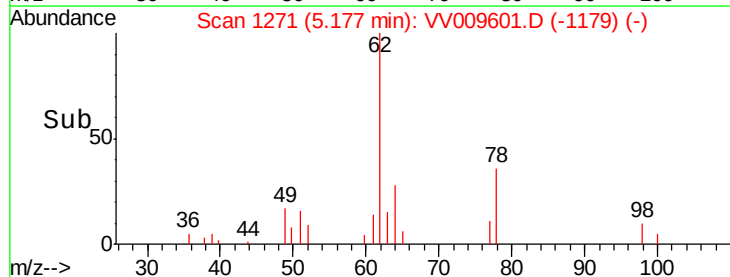
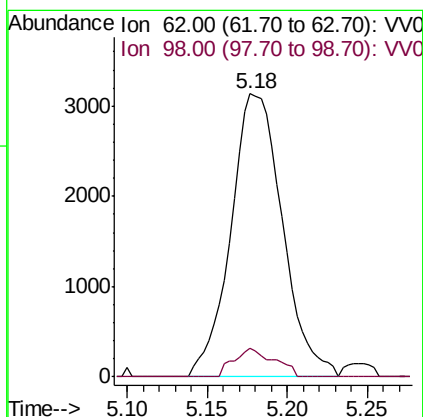
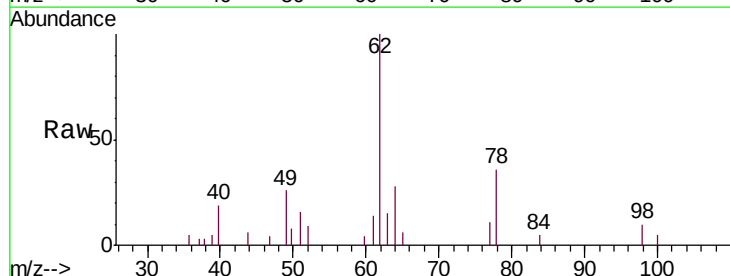
Instrument :
MSVOA_V
ClientSampled :
VSTD00561

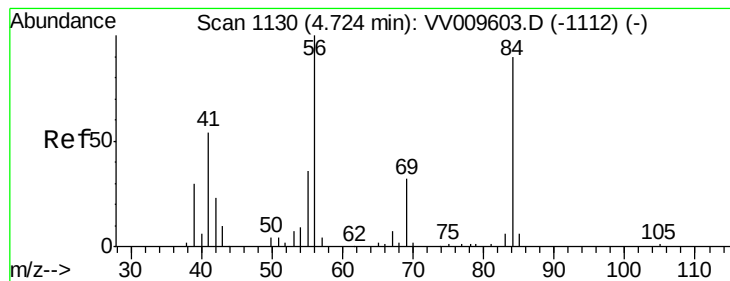
Tgt Ion: 83 Resp: 9380
Ion Ratio Lower Upper
83 100
85 59.5 47.0 87.4



#27
1,2-Dichloroethane
Concen: 4.359 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

Tgt Ion: 62 Resp: 6928
Ion Ratio Lower Upper
62 100
98 9.9 6.2 9.4#





#29

Cyclohexane

Concen: 4.322 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

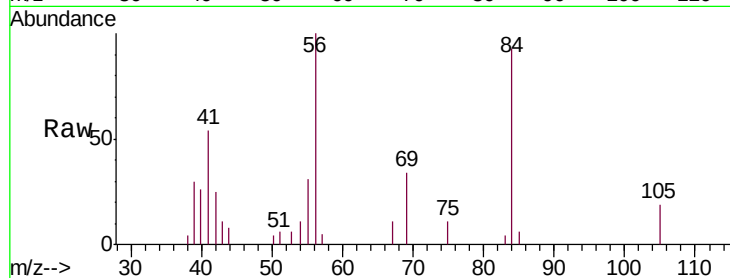
Tgt Ion: 56 Resp: 6764

Ion Ratio Lower Upper

56 100

69 32.7 25.1 37.7

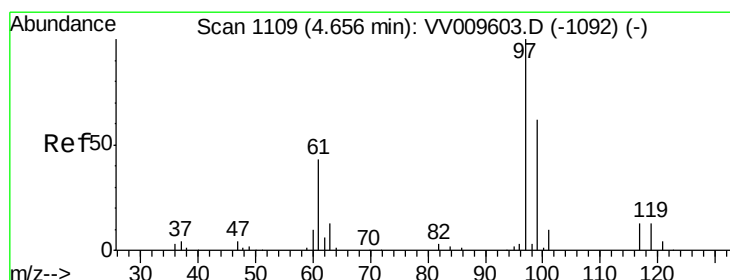
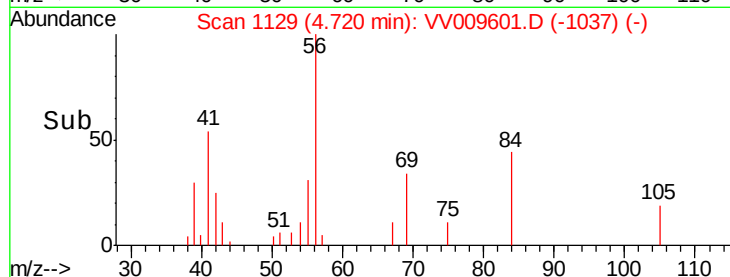
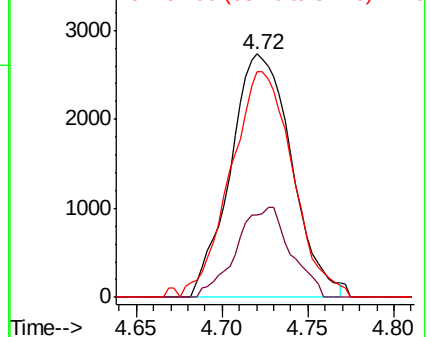
84 94.4 73.4 110.0



Abundance Ion 56.00 (55.70 to 56.70): VV009601.D (-1037) (-)

Ion 69.00 (68.70 to 69.70): VV009601.D (-1037) (-)

Ion 84.00 (83.70 to 84.70): VV009601.D (-1037) (-)



#30

1,1,1-Trichloroethane

Concen: 4.131 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

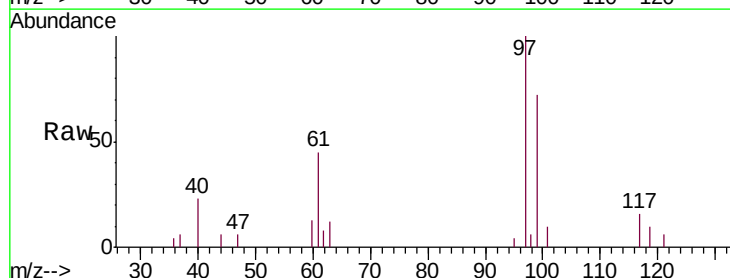
Tgt Ion: 97 Resp: 7021

Ion Ratio Lower Upper

97 100

99 66.5 51.0 76.6

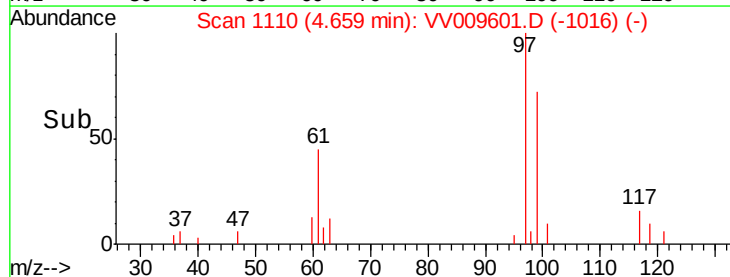
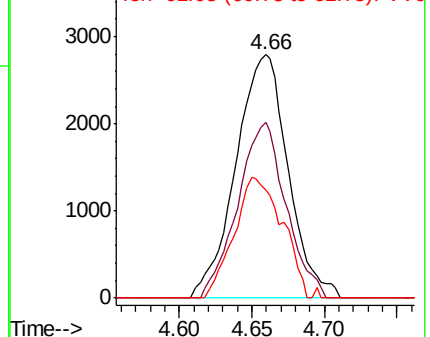
61 45.6 33.9 50.9

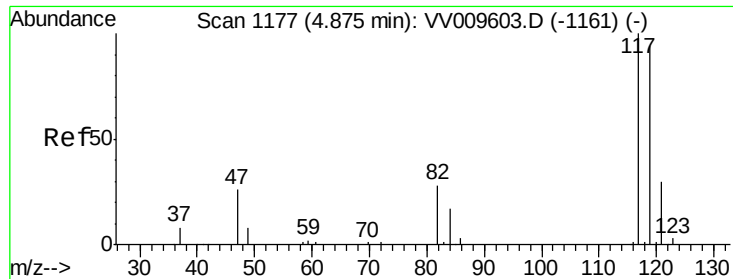


Abundance Ion 97.00 (96.70 to 97.70): VV009601.D (-1016) (-)

Ion 99.00 (98.70 to 99.70): VV009601.D (-1016) (-)

Ion 61.05 (60.75 to 61.75): VV009601.D (-1016) (-)





#31

Carbon tetrachloride

Concen: 3.886 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

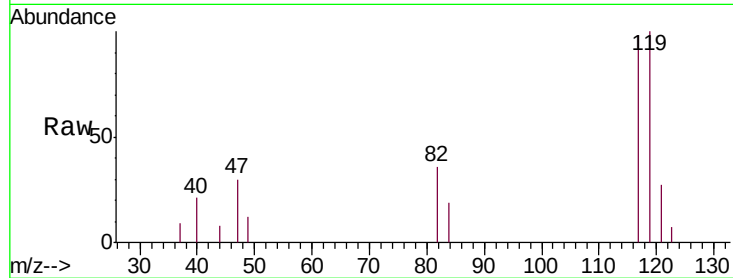
VSTD00561

Tgt Ion:117 Resp: 5511

Ion Ratio Lower Upper

117 100

119 92.9 75.1 112.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

2500

2000

1500

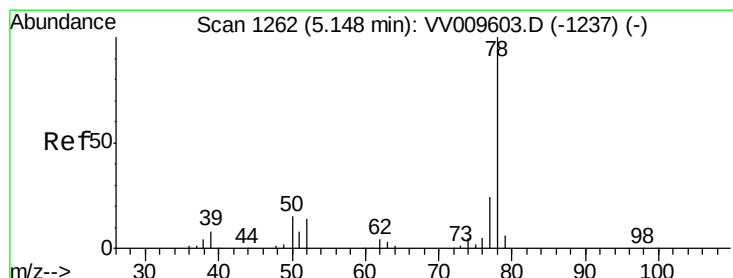
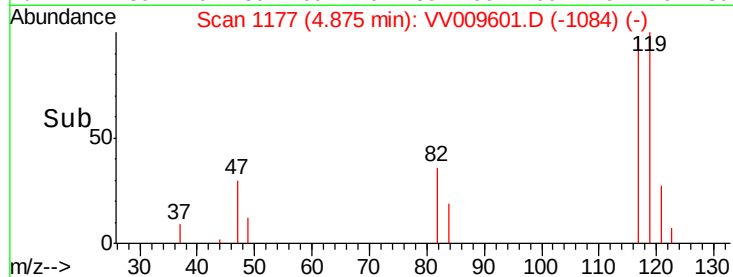
1000

500

0

Time-->

4.80 4.85 4.90 4.95



#33

Benzene

Concen: 4.372 ug/L

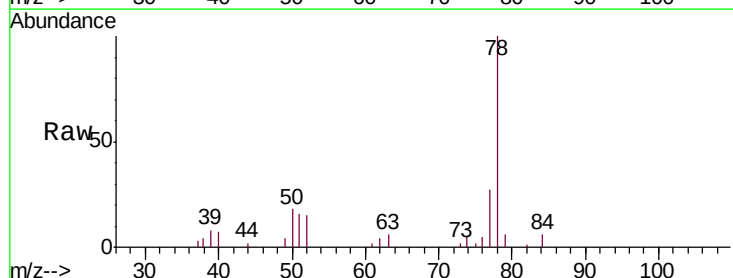
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Tgt Ion: 78 Resp: 17639



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.15

8000

6000

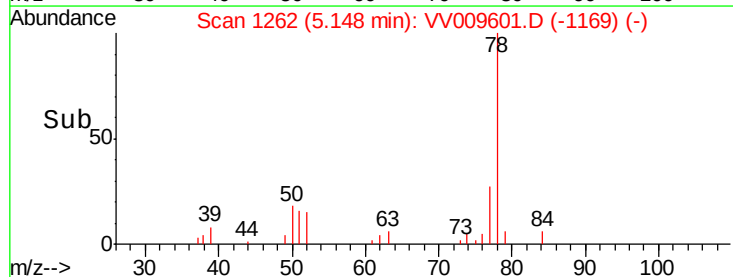
4000

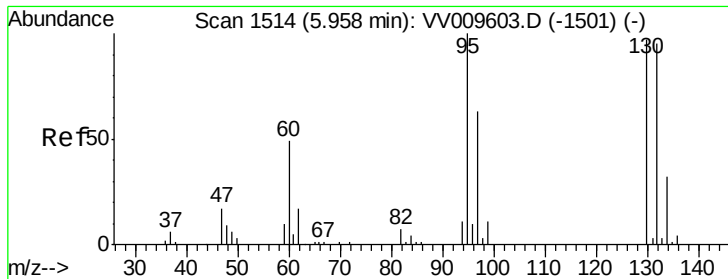
2000

0

Time-->

5.05 5.10 5.15 5.20





#34

Trichloroethene

Concen: 4.210 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampled :

VSTD00561

Tgt Ion: 95 Resp: 4534

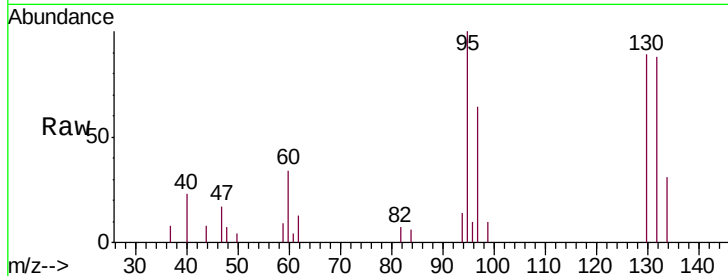
Ion Ratio Lower Upper

95 100

97 63.8 44.2 82.2

132 87.7 66.5 123.5

130 89.1 67.8 125.8

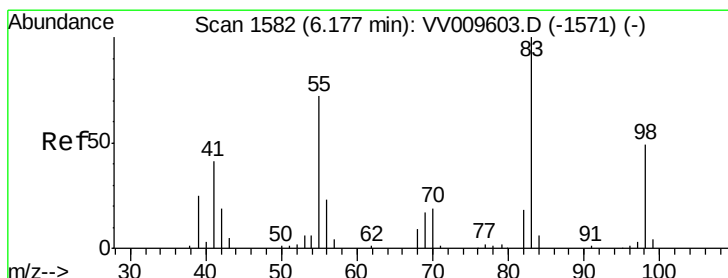
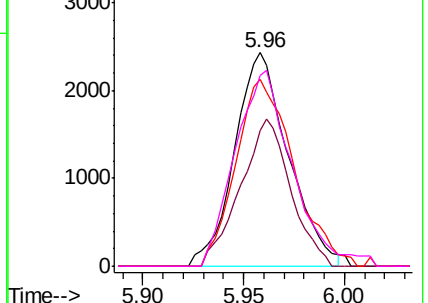
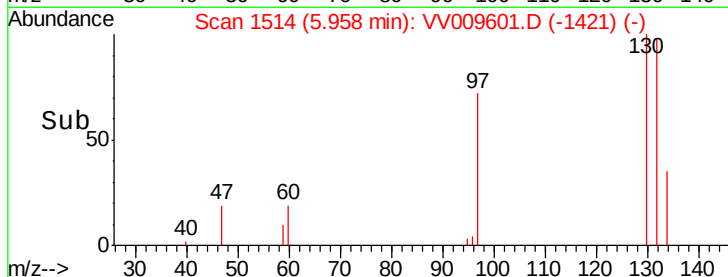


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 4.246 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

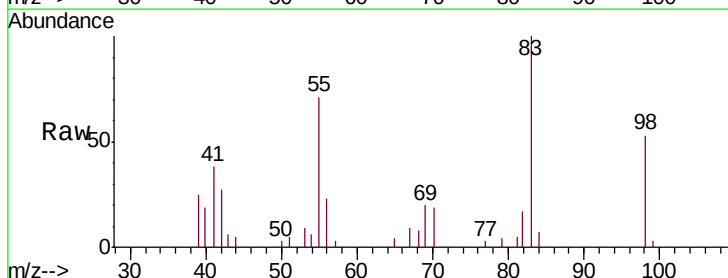
Tgt Ion: 83 Resp: 7398

Ion Ratio Lower Upper

83 100

55 74.0 57.9 86.9

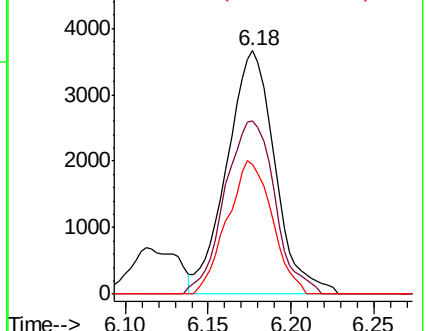
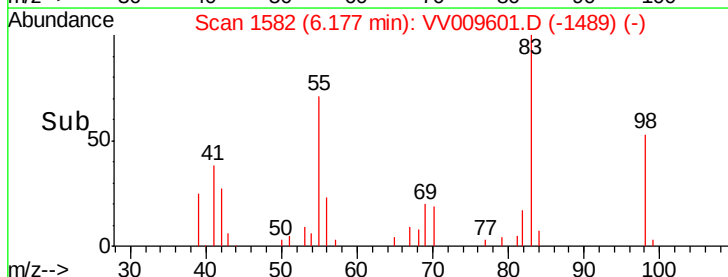
98 51.2 39.2 58.8

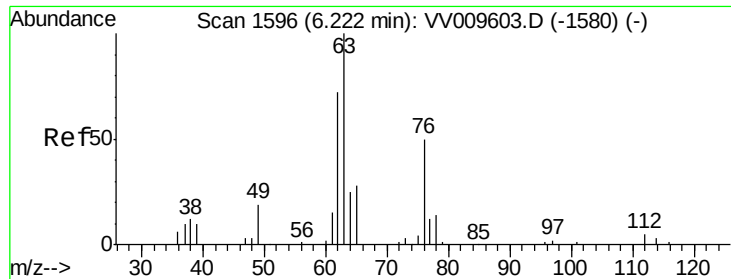


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

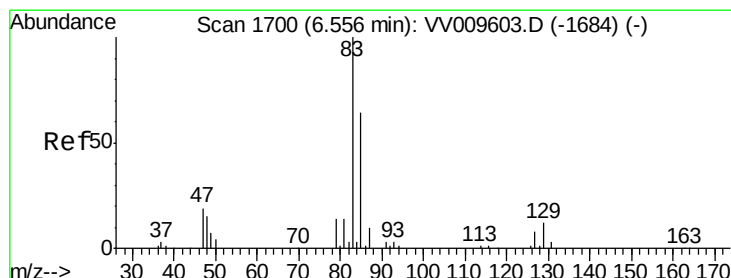
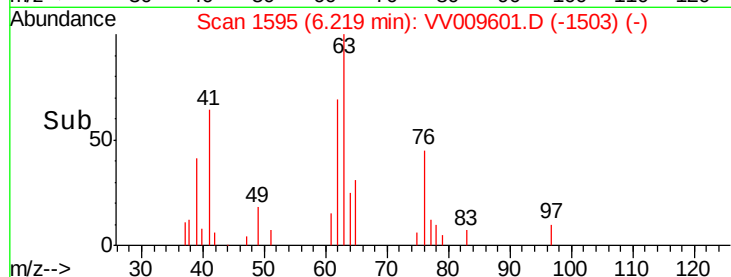
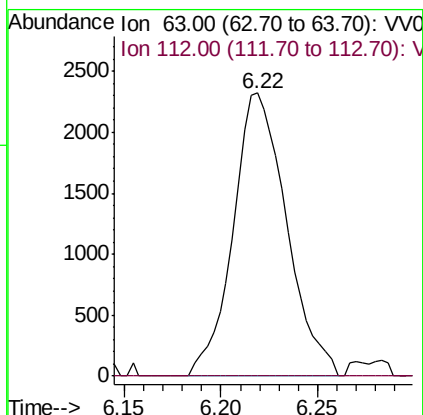
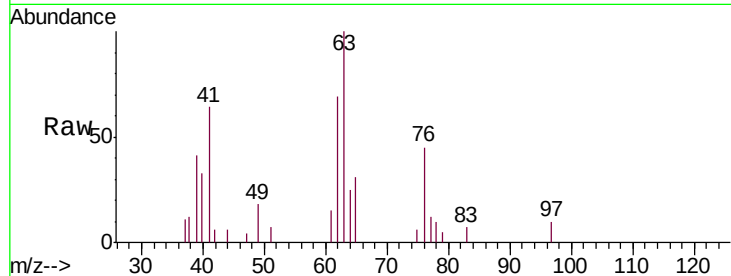




#37
 1,2-Dichloropropane
 Concen: 4.341 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

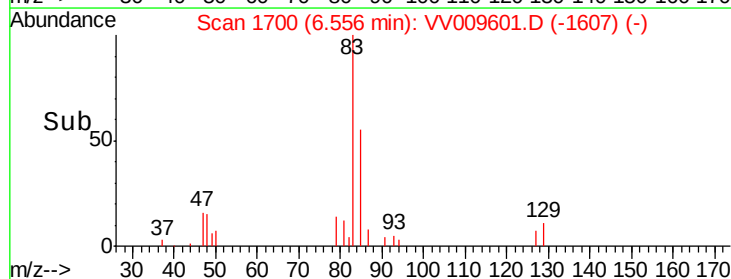
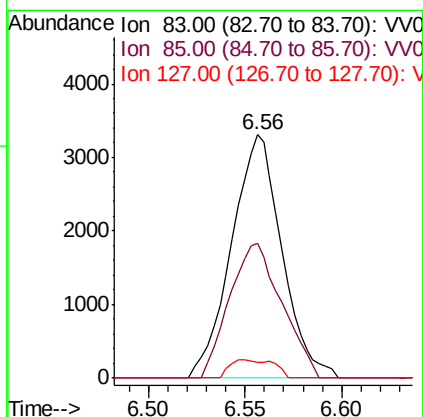
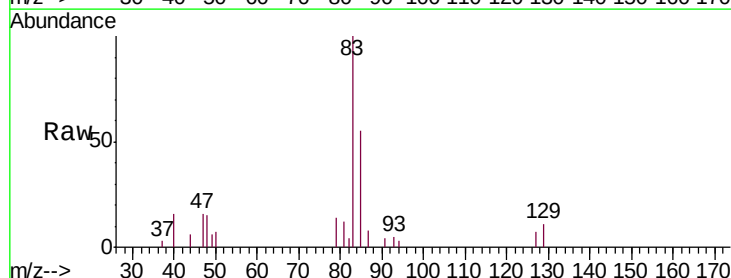
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00561

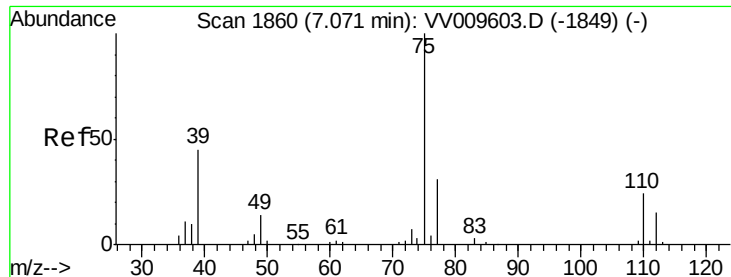
Tgt Ion: 63 Resp: 4464
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#38
 Bromodichloromethane
 Concen: 4.133 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

Tgt Ion: 83 Resp: 5994
 Ion Ratio Lower Upper
 83 100
 85 55.3 45.0 83.6
 127 6.6 6.6 10.0#

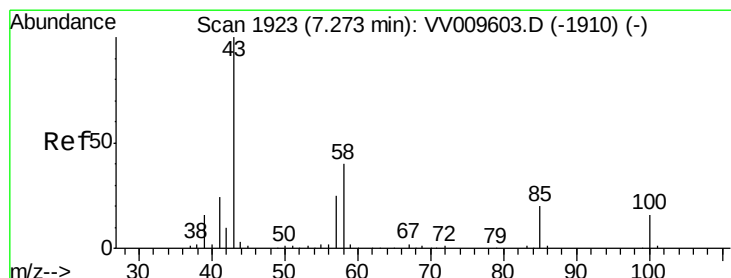
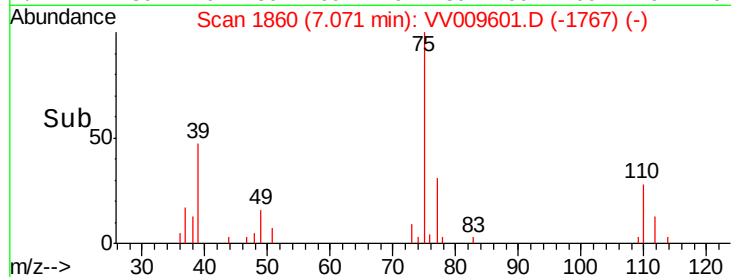
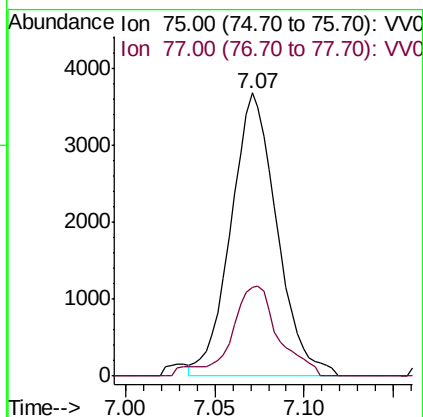
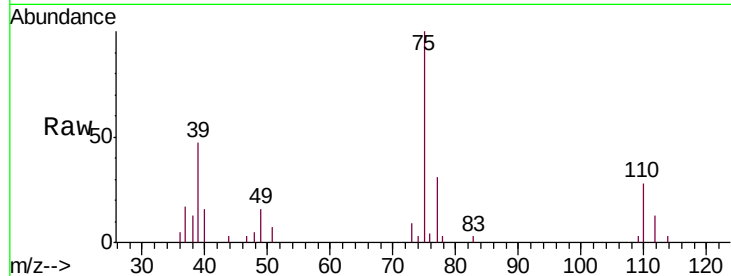




#39
 cis-1,3-Dichloropropene
 Concen: 4.043 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

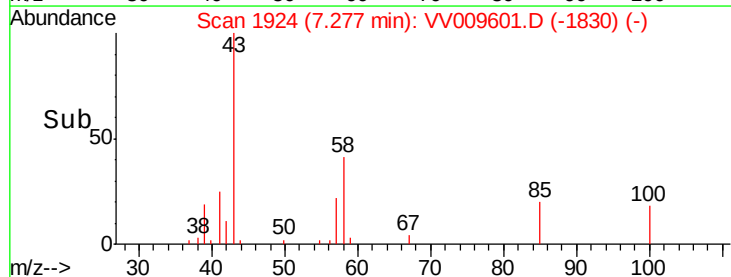
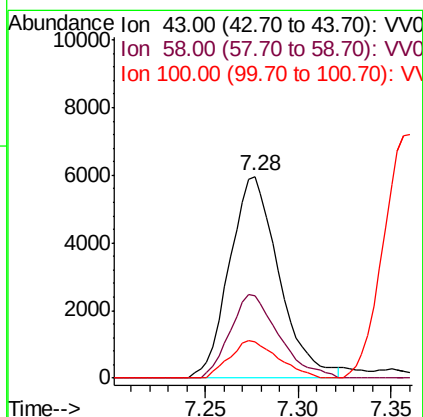
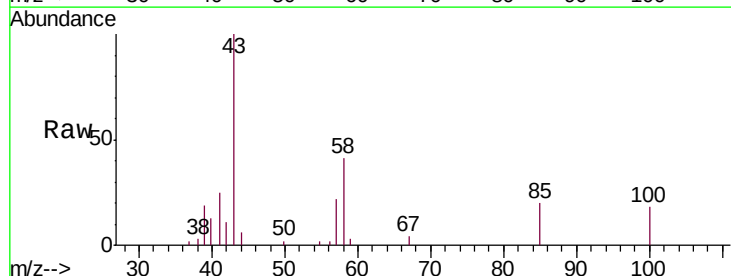
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

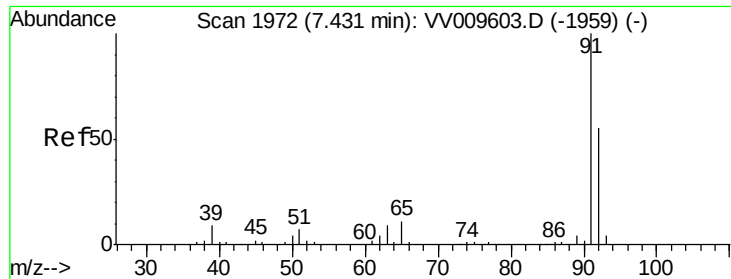
Tgt Ion: 75 Resp: 6628
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 7.997 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

Tgt Ion: 43 Resp: 11055
 Ion Ratio Lower Upper
 43 100
 58 40.9 32.1 48.1
 100 18.2 12.9 19.3





#42

Toluene

Concen: 4.142 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

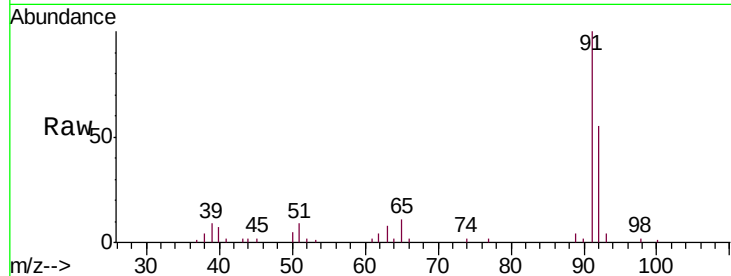
VSTD00561

Tgt Ion: 91 Resp: 19049

Ion Ratio Lower Upper

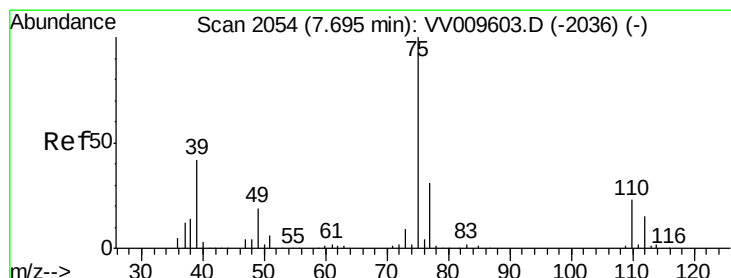
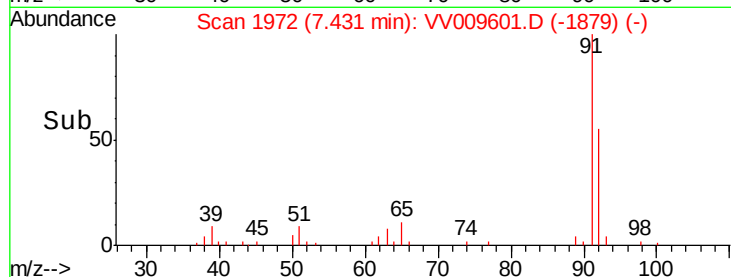
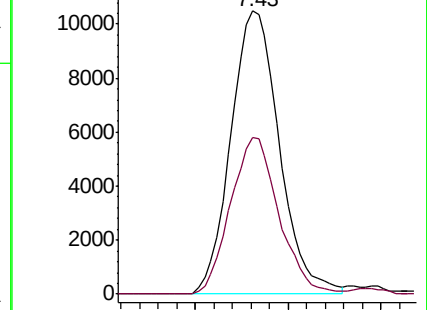
91 100

92 55.5 38.6 71.6



Abundance Ion 91.00 (90.70 to 91.70): VV009601.D (-1879) (-)

Ion 92.00 (91.70 to 92.70): VV009601.D (-1879) (-)



#44

trans-1,3-Dichloropropene

Concen: 3.679 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009601.D

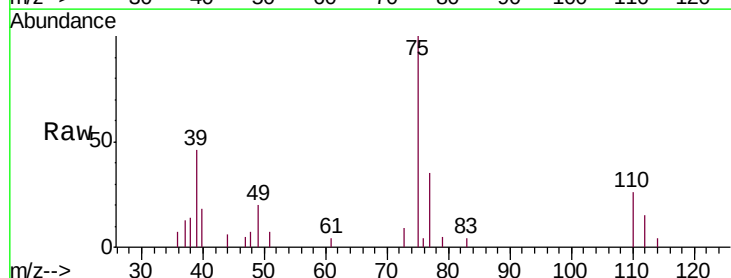
Acq: 12 Mar 2019 10:39

Tgt Ion: 75 Resp: 5662

Ion Ratio Lower Upper

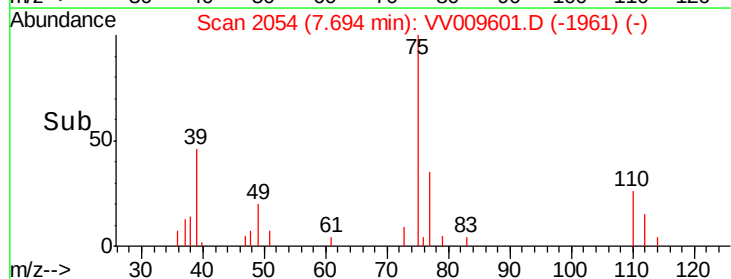
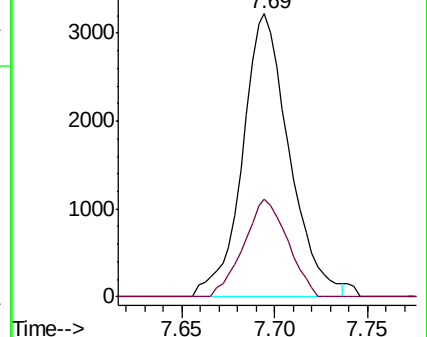
75 100

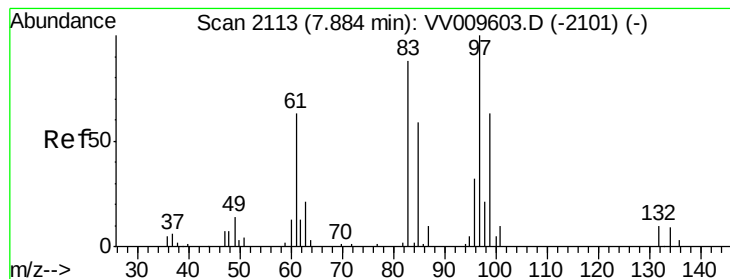
77 34.6 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV009601.D (-1961) (-)

Ion 77.00 (76.70 to 77.70): VV009601.D (-1961) (-)





#45

1,1,2-Trichloroethane

Concen: 4.066 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

Tgt Ion: 97 Resp: 4313

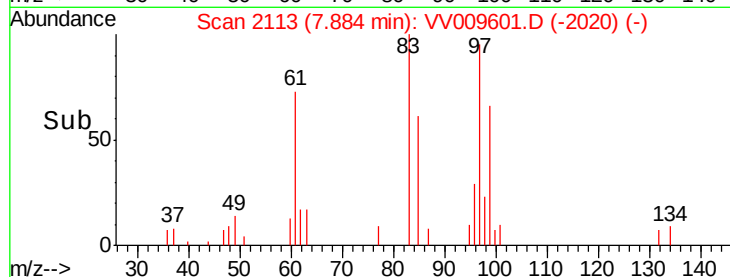
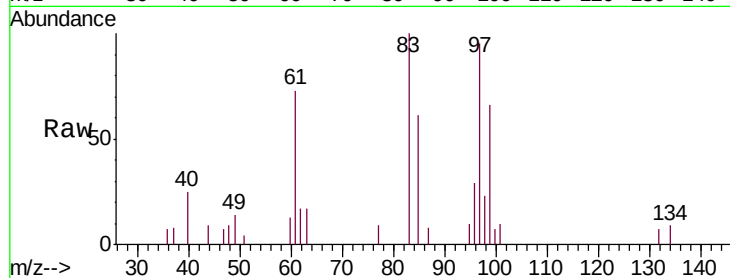
Ion Ratio Lower Upper

97 100

99 69.8 44.0 81.8

83 105.8 61.5 114.3

85 64.7 41.0 76.2

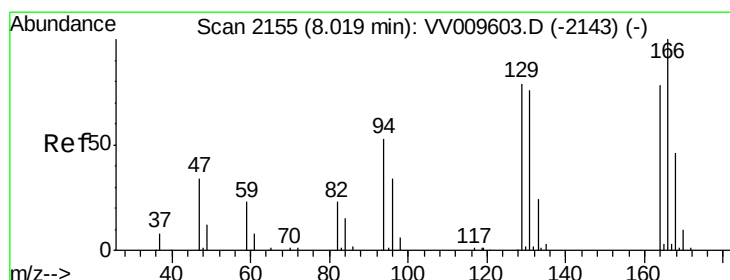
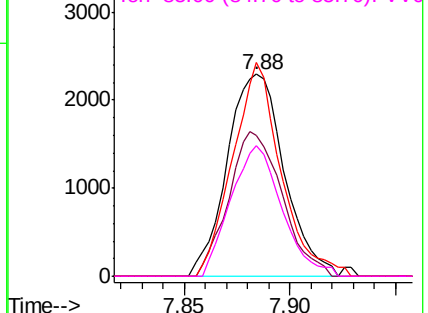


Abundance Ion 97.00 (96.70 to 97.70): VV009601.D (-2020) (-)

Ion 99.00 (98.70 to 99.70): VV009601.D (-2020) (-)

Ion 83.00 (82.70 to 83.70): VV009601.D (-2020) (-)

Ion 85.00 (84.70 to 85.70): VV009601.D (-2020) (-)



#46

Tetrachloroethene

Concen: 4.657 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Tgt Ion: 164 Resp: 3943

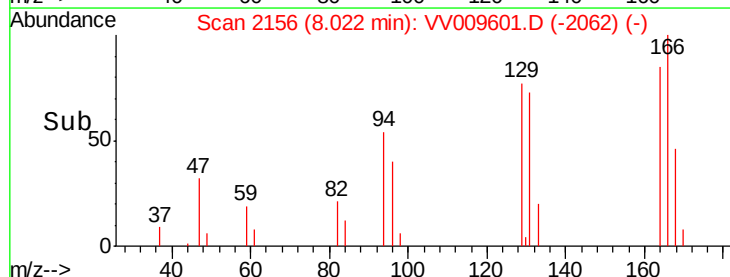
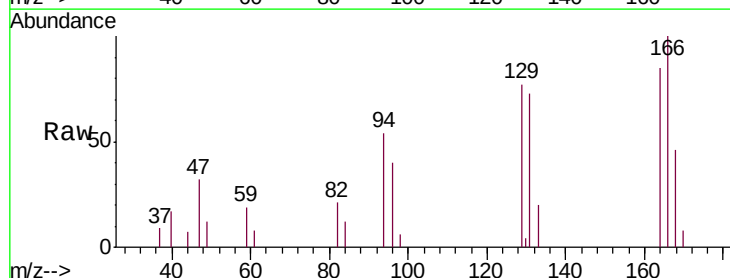
Ion Ratio Lower Upper

164 100

129 89.8 70.8 131.6

131 85.6 68.3 126.9

166 117.2 89.5 166.3

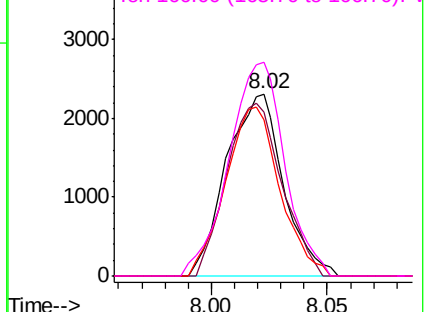


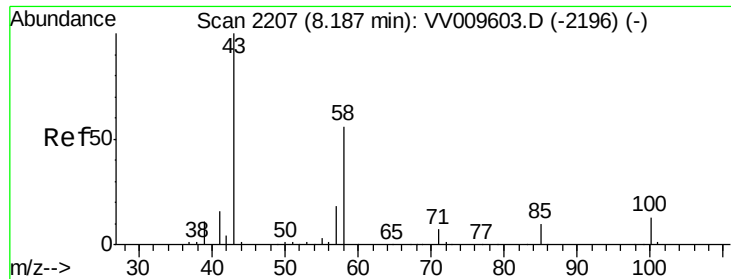
Abundance Ion 164.00 (163.70 to 164.70): VV009601.D (-2062) (-)

Ion 129.00 (128.70 to 129.70): VV009601.D (-2062) (-)

Ion 131.00 (130.70 to 131.70): VV009601.D (-2062) (-)

Ion 166.00 (165.70 to 166.70): VV009601.D (-2062) (-)

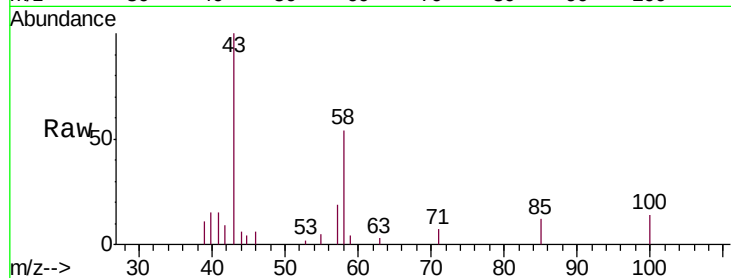




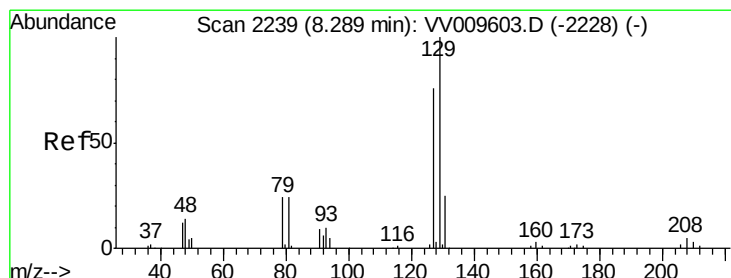
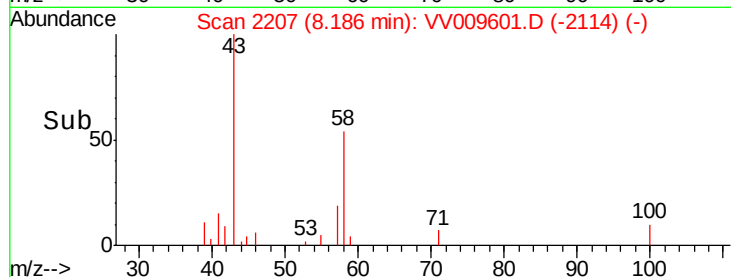
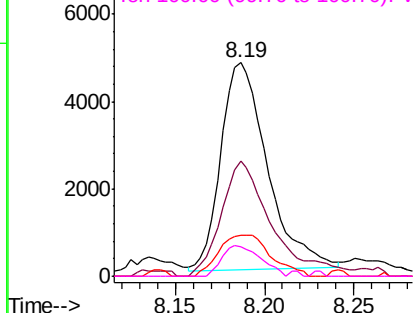
#48
2-Hexanone
Concen: 7.861 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tgt Ion: 43 Resp: 8659
Ion Ratio Lower Upper
43 100
58 60.1 45.8 68.8
57 22.0 14.5 21.7#
100 12.1 9.8 14.8

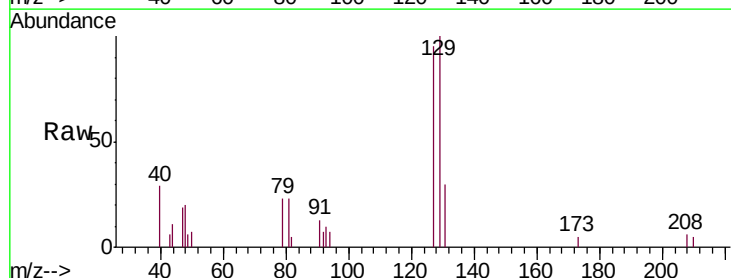


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

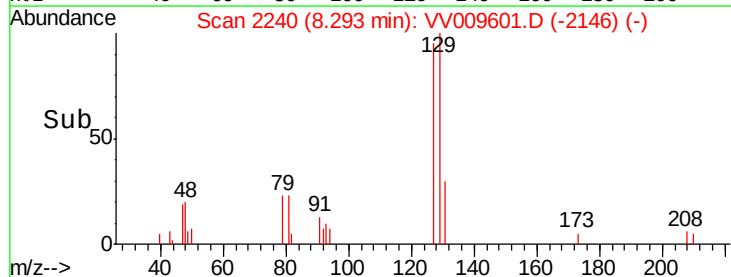
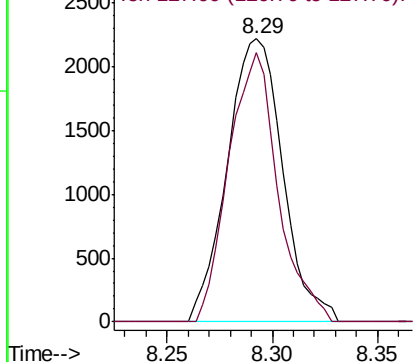


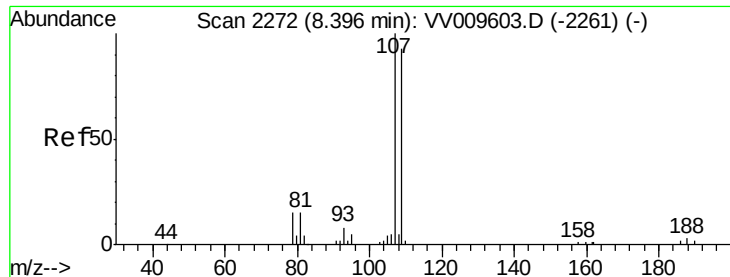
#49
Dibromochloromethane
Concen: 3.444 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

Tgt Ion: 129 Resp: 4066
Ion Ratio Lower Upper
129 100
127 95.1 53.3 99.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

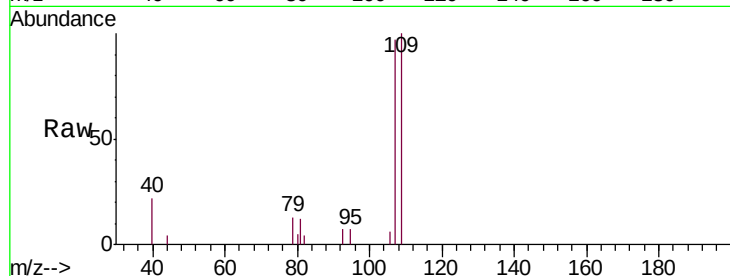




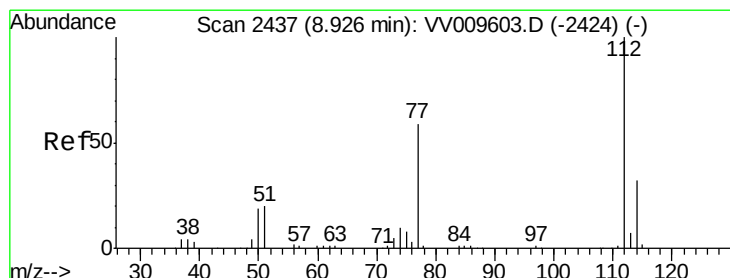
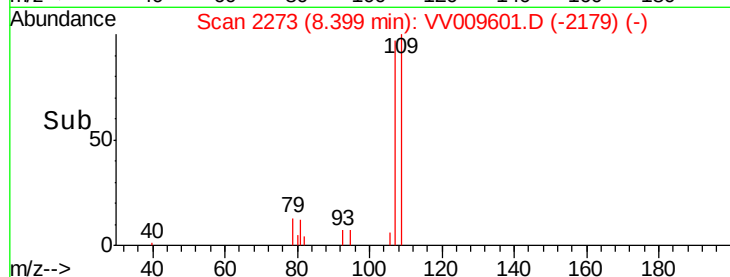
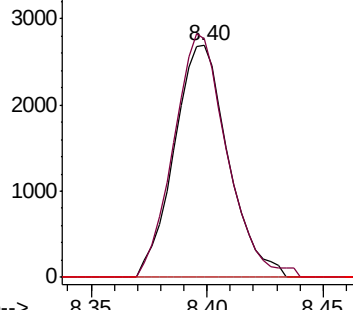
#50
1,2-Dibromoethane
Concen: 3.881 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tgt Ion:107 Resp: 4361
Ion Ratio Lower Upper
107 100
109 102.9 65.2 121.2
188 0.0 2.6 4.0#

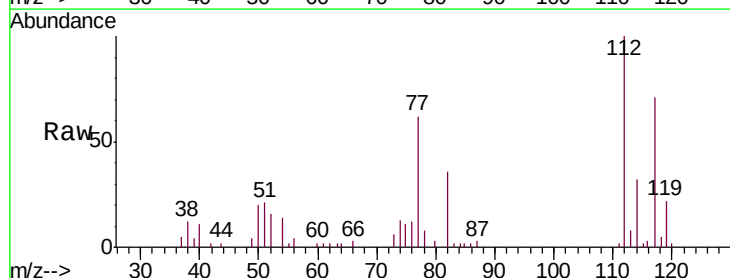


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

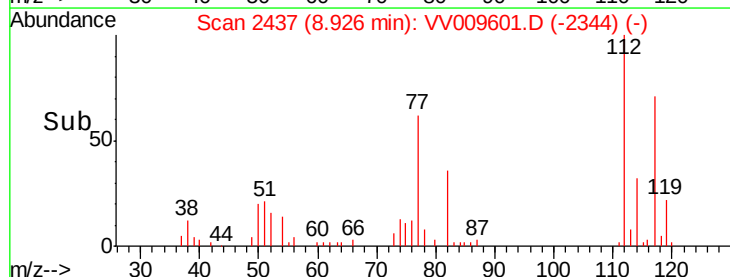
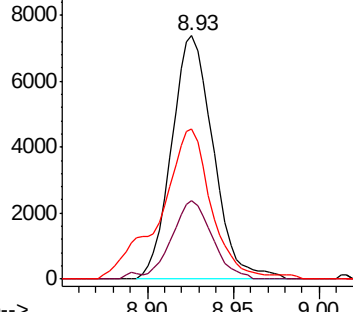


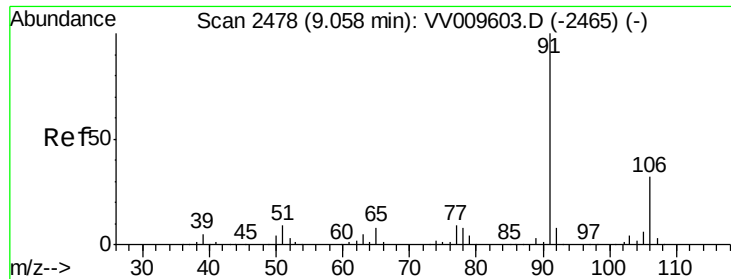
#51
Chlorobenzene
Concen: 4.056 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

Tgt Ion:112 Resp: 12522
Ion Ratio Lower Upper
112 100
114 32.3 22.2 41.2
77 61.5 47.4 71.2



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





#52

Ethylbenzene

Concen: 4.055 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

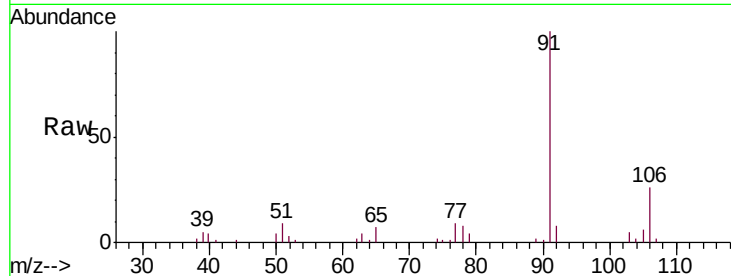
VSTD00561

Tgt Ion: 91 Resp: 21129

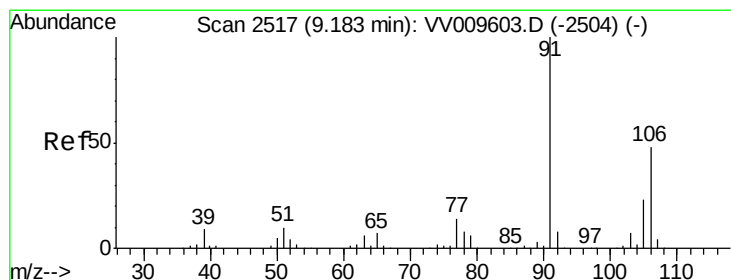
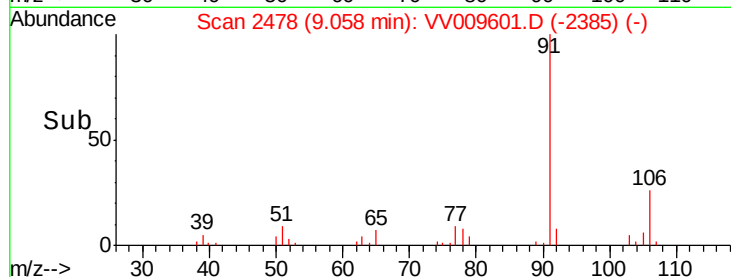
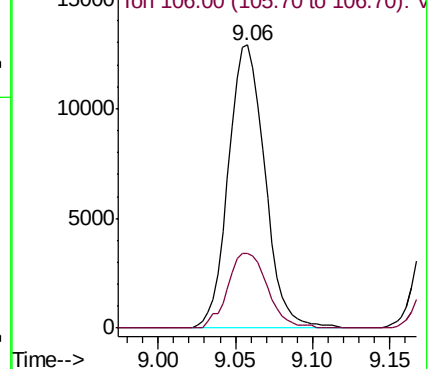
Ion Ratio Lower Upper

91 100

106 26.2 22.4 41.6



Abundance Ion 91.00 (90.70 to 91.70): VV009601.D (-2385) (-)



#53

m,p-Xylene

Concen: 3.801 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV009601.D

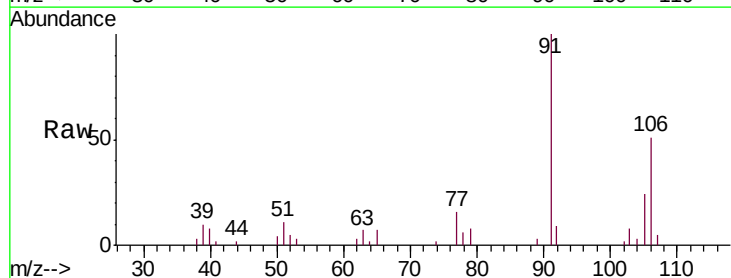
Acq: 12 Mar 2019 10:39

Tgt Ion: 106 Resp: 7587

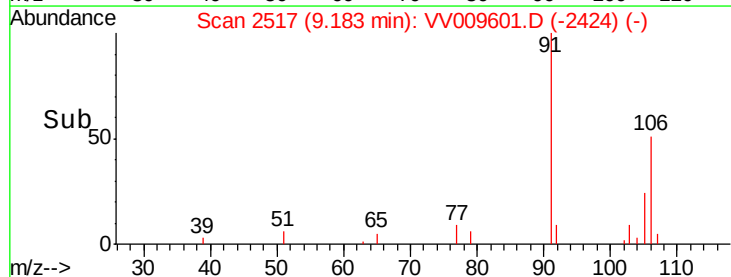
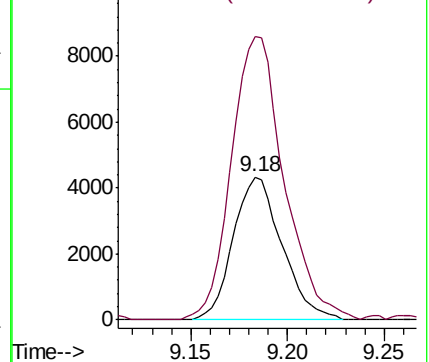
Ion Ratio Lower Upper

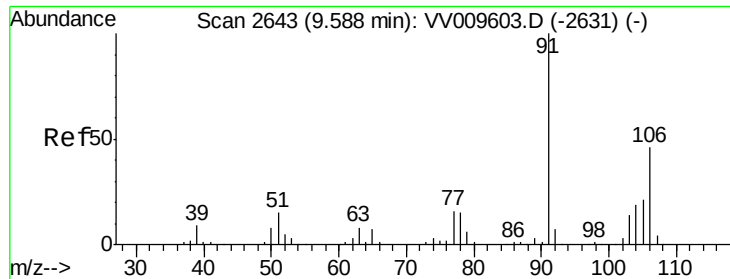
106 100

91 197.9 146.8 272.6



Abundance Ion 106.00 (105.70 to 106.70): VV009601.D (-2424) (-)

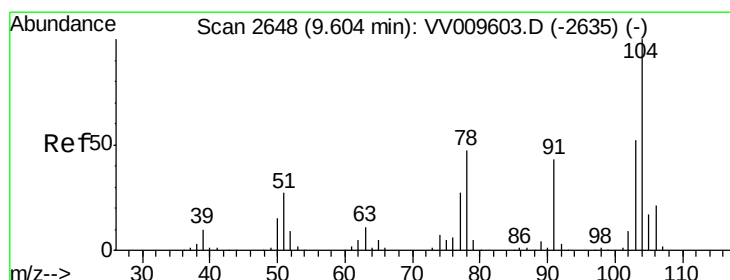
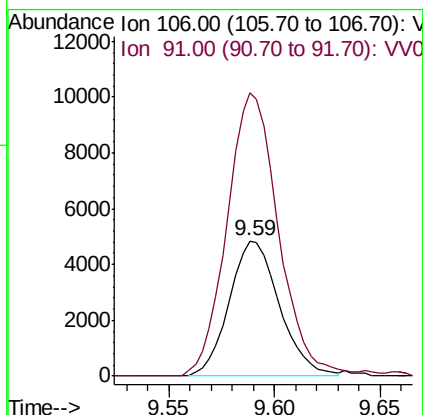
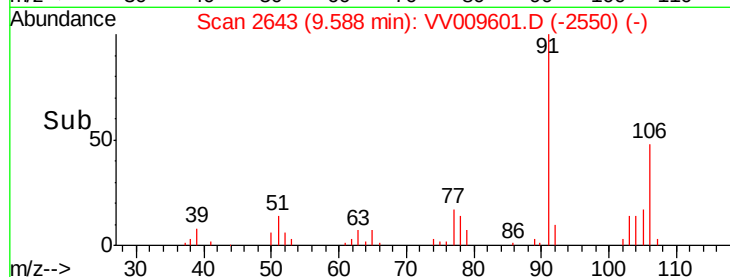
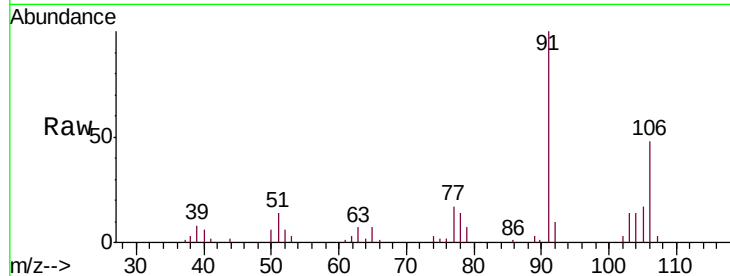




#54
o-Xylene
Concen: 3.982 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

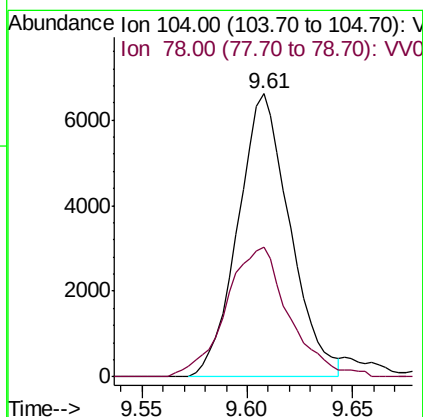
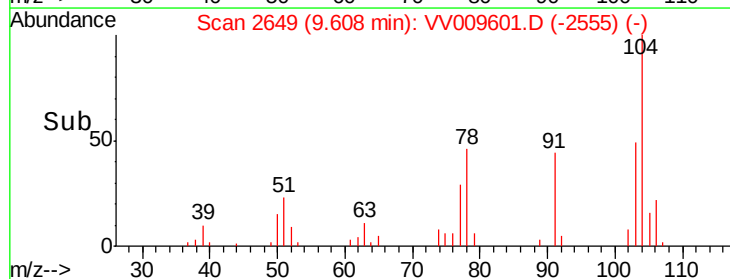
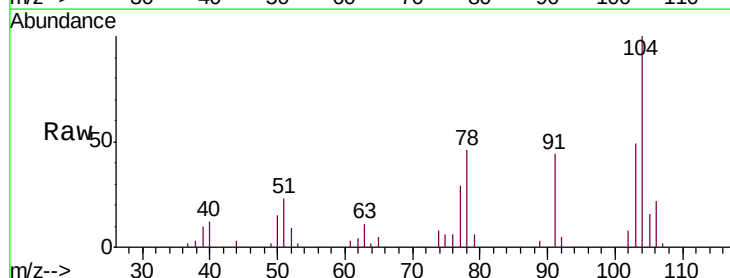
Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

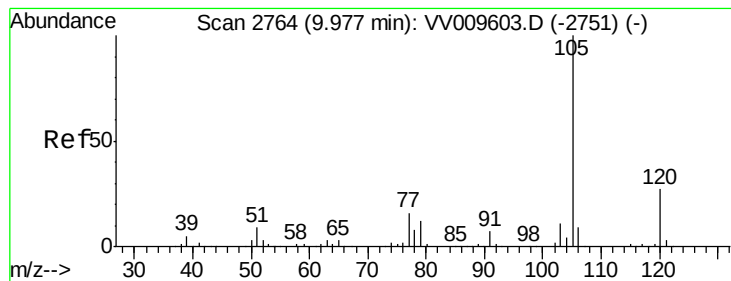
Tgt Ion:106 Resp: 8022
Ion Ratio Lower Upper
106 100
91 209.1 151.8 282.0



#55
Styrene
Concen: 3.475 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VV009601.D
Acq: 12 Mar 2019 10:39

Tgt Ion:104 Resp: 11342
Ion Ratio Lower Upper
104 100
78 45.9 33.2 61.6





#56

Isopropylbenzene

Concen: 3.890 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

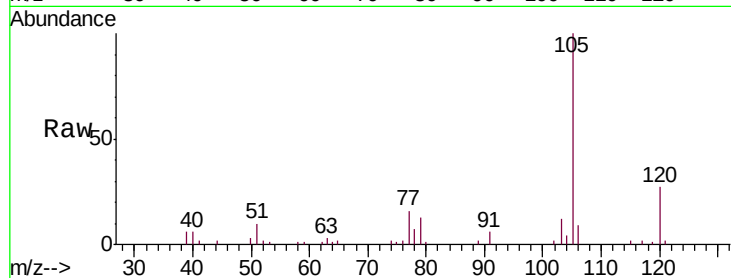
Tgt Ion: 105 Resp: 20408

Ion Ratio Lower Upper

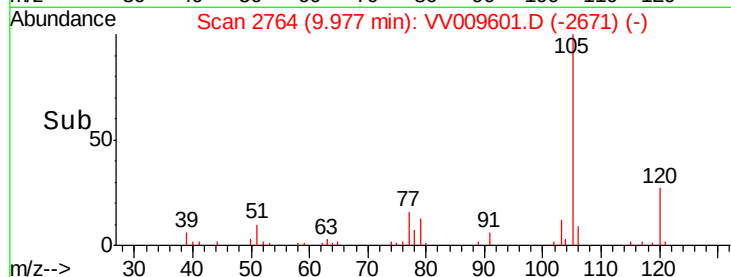
105 100

120 25.9 21.6 32.4

77 15.6 13.0 19.6



Abundance Ion 105.00 (104.70 to 105.70): VV009601.D (-2671) (-)



Ion 120.00 (119.70 to 120.70): VV009601.D (-2671) (-)

Ion 77.00 (76.70 to 77.70): VV009601.D (-2671) (-)

9.98

15000

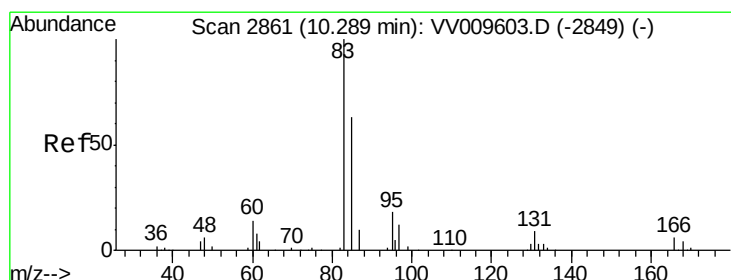
10000

5000

0

9.95 10.00 10.05

Time-->



#58

1,1,2,2-Tetrachloroethane

Concen: 4.109 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

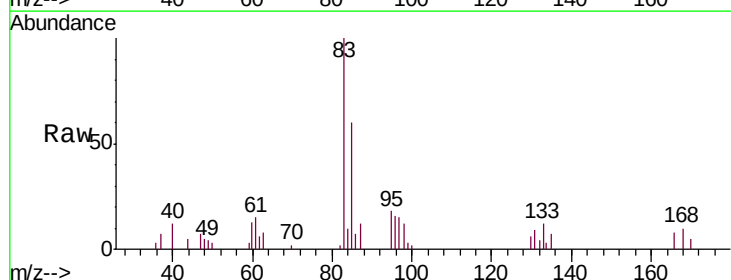
Tgt Ion: 83 Resp: 7706

Ion Ratio Lower Upper

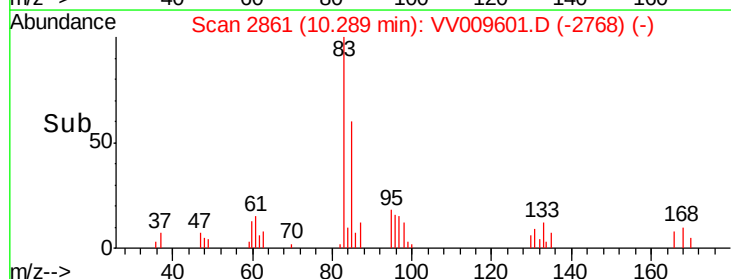
83 100

85 60.0 44.9 83.5

131 9.3 8.2 12.4



Abundance Ion 83.00 (82.70 to 83.70): VV009601.D (-2768) (-)



Ion 85.00 (84.70 to 85.70): VV009601.D (-2768) (-)

Ion 131.00 (130.70 to 131.70): VV009601.D (-2768) (-)

10.29

6000

5000

4000

3000

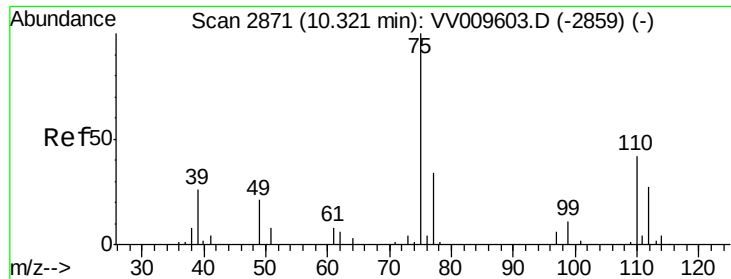
2000

1000

0

10.25 10.30 10.35

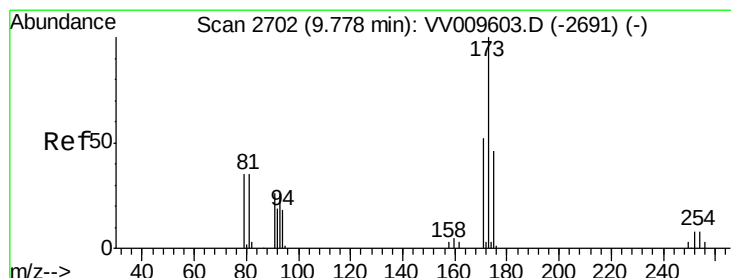
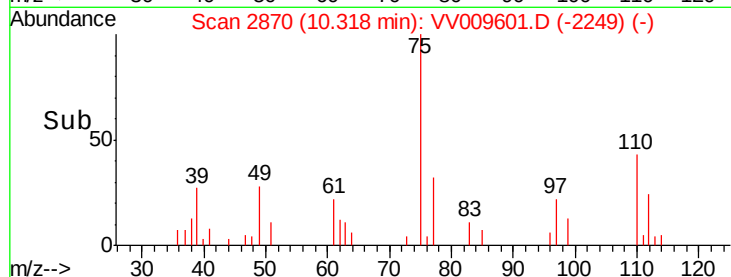
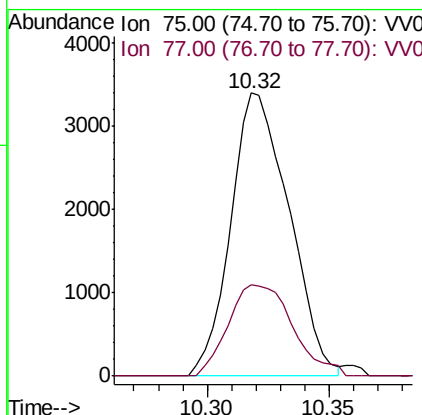
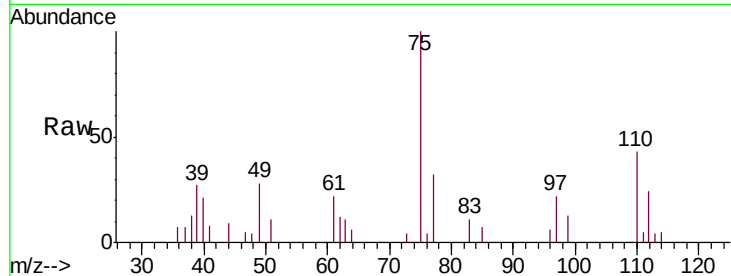
Time-->



#59
 1,2,3-Trichloropropane
 Concen: 4.042 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

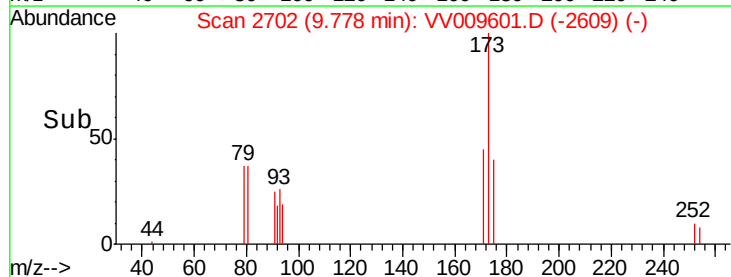
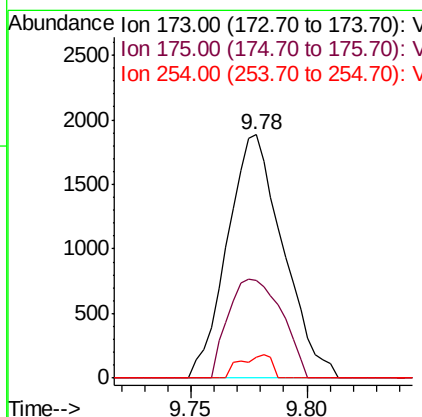
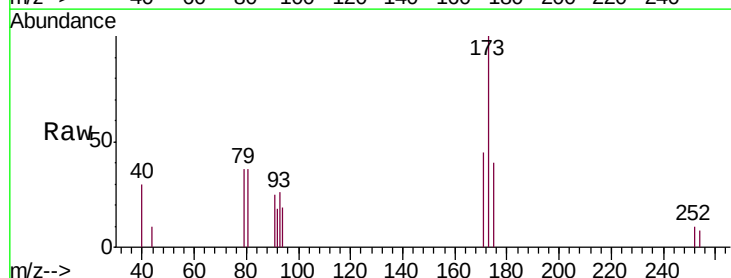
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

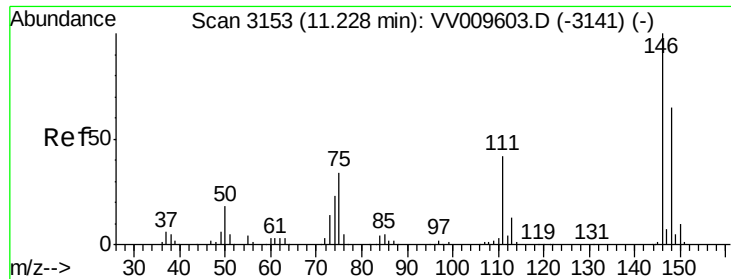
Tgt Ion: 75 Resp: 5636
 Ion Ratio Lower Upper
 75 100
 77 35.6 26.6 40.0



#61
 Bromoform
 Concen: 4.273 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

Tgt Ion: 173 Resp: 3147
 Ion Ratio Lower Upper
 173 100
 175 39.1 37.0 55.6
 254 3.1 6.4 9.6#





#62

1,3-Dichlorobenzene

Concen: 4.233 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

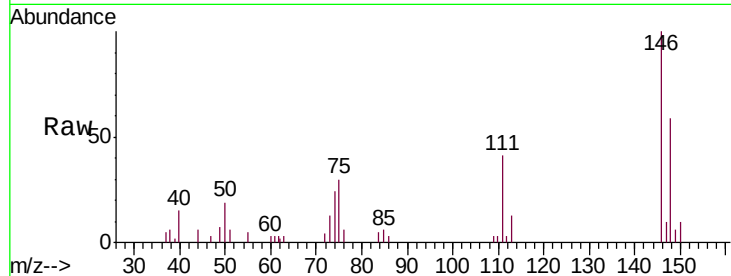
Tgt Ion:146 Resp: 8405

Ion Ratio Lower Upper

146 100

111 41.3 29.4 54.6

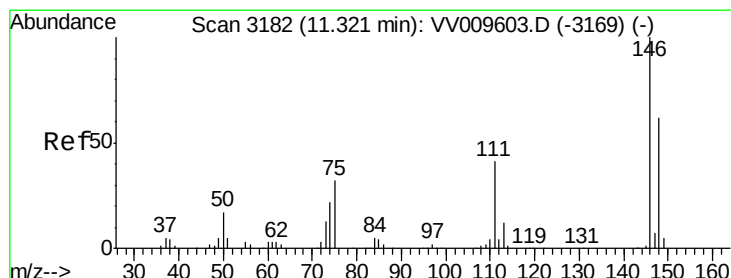
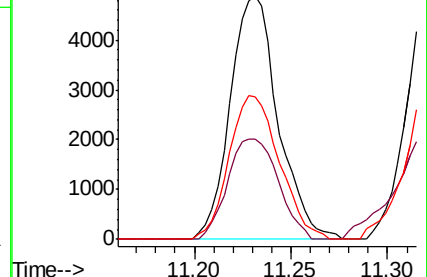
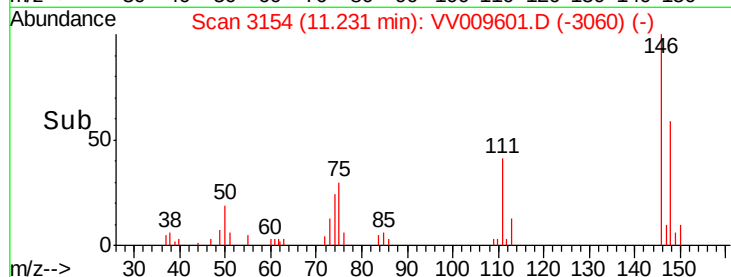
148 58.8 45.5 84.5



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



#63

1,4-Dichlorobenzene

Concen: 4.305 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

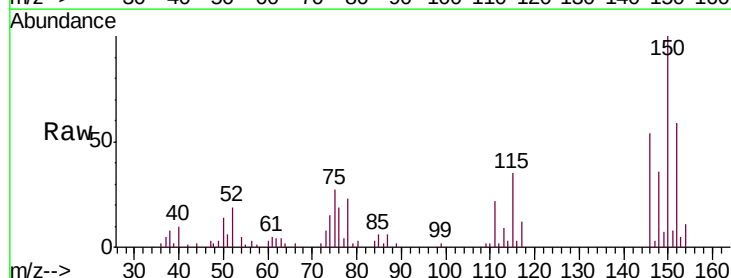
Tgt Ion:146 Resp: 8426

Ion Ratio Lower Upper

146 100

111 40.1 28.6 53.2

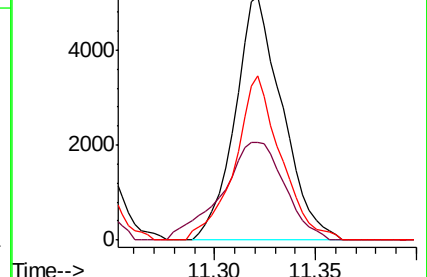
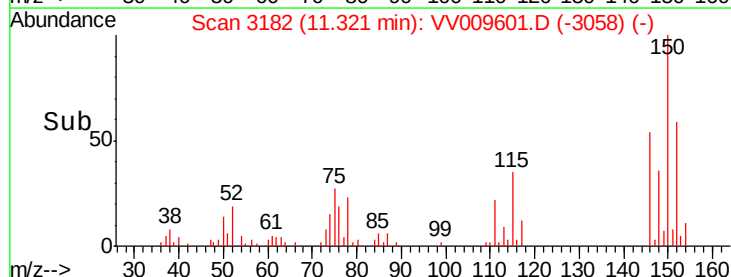
148 67.3 43.2 80.2

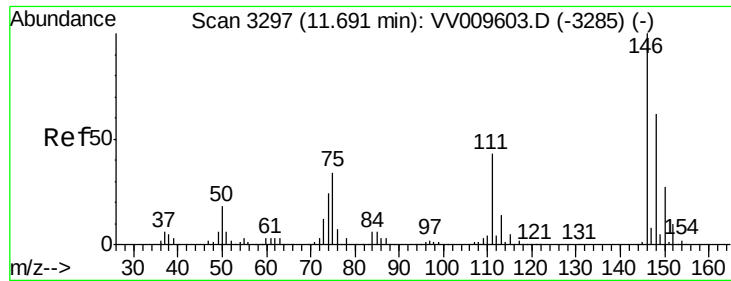


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.277 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

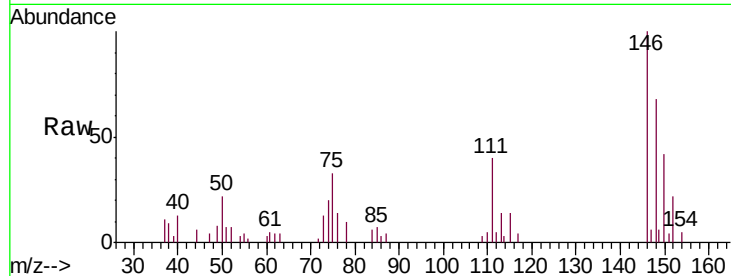
Tgt Ion:146 Resp: 8702

Ion Ratio Lower Upper

146 100

111 40.2 34.7 52.1

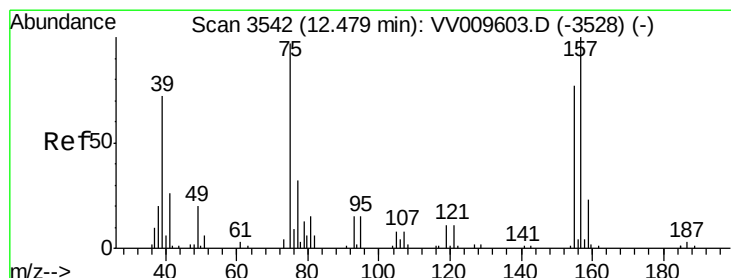
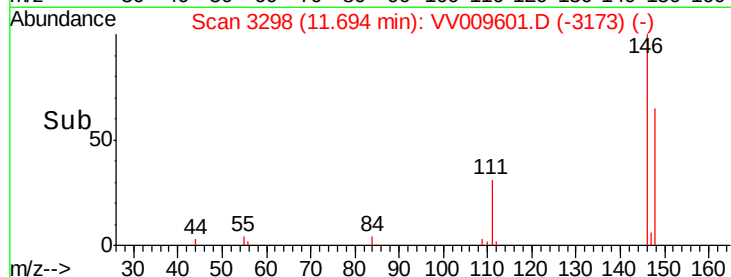
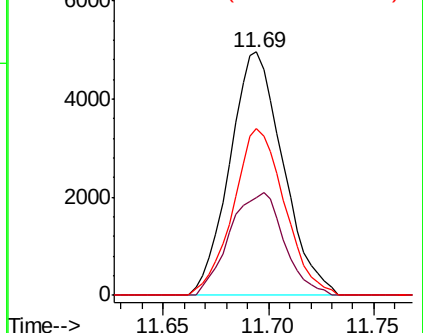
148 68.5 49.6 74.4



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: 4.072 ug/L

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

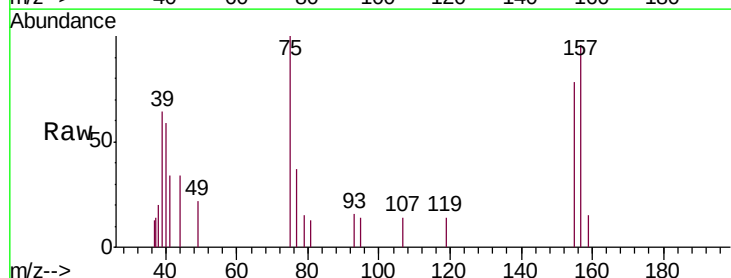
Tgt Ion: 75 Resp: 1252

Ion Ratio Lower Upper

75 100

155 77.7 63.6 95.4

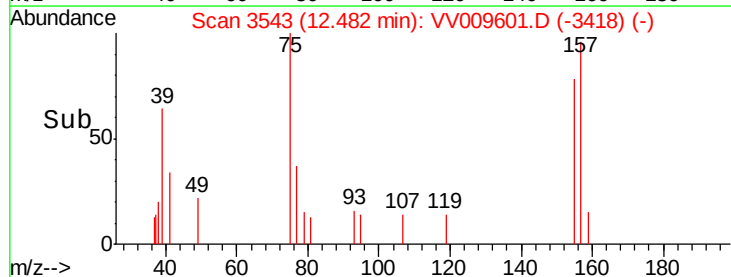
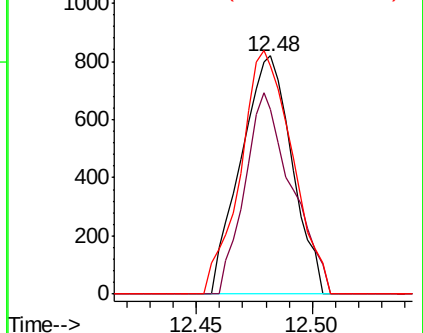
157 96.0 82.1 123.1

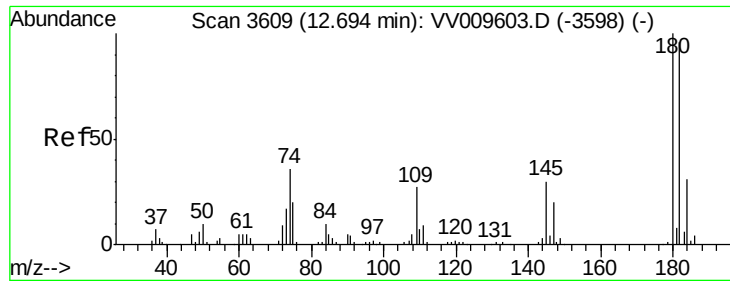


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

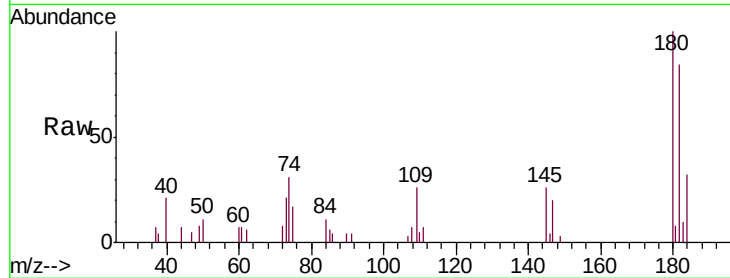




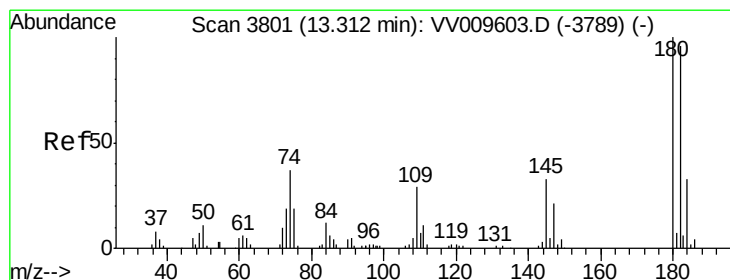
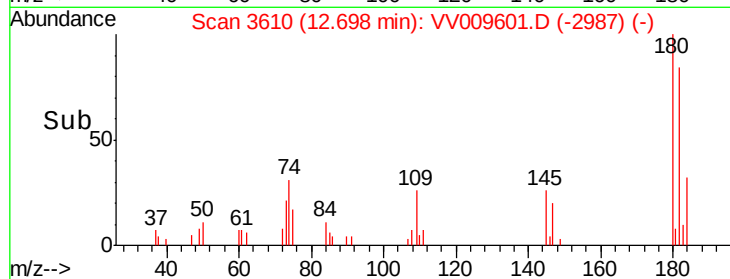
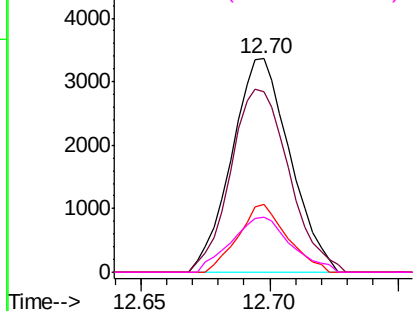
#67
 1,3,5-Trichlorobenzene
 Concen: 4.108 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

Tgt Ion:180 Resp: 5287
 Ion Ratio Lower Upper
 180 100
 182 86.2 77.0 115.4
 184 26.7 24.2 36.4
 145 26.7 24.7 37.1

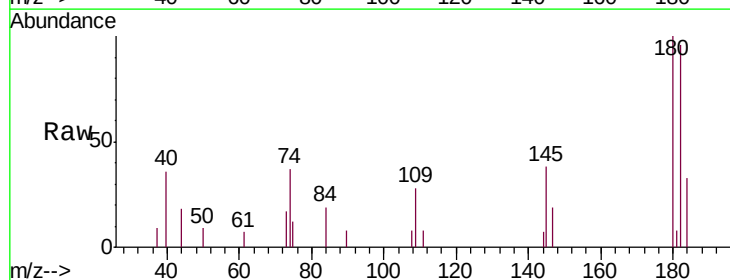


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

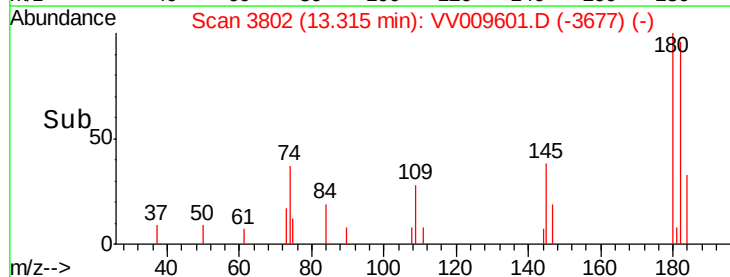
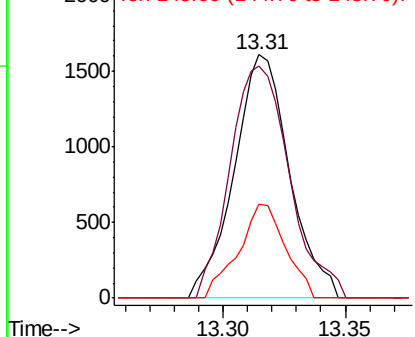


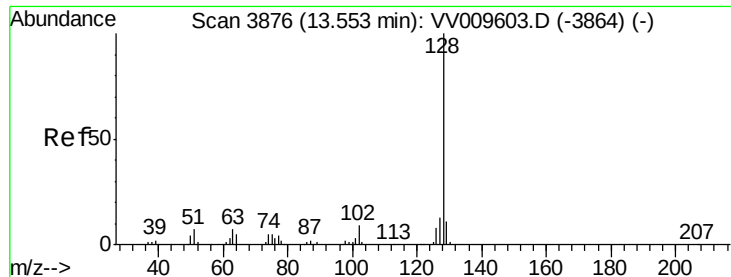
#68
 1,2,4-trichlorobenzene
 Concen: 2.845 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV009601.D
 Acq: 12 Mar 2019 10:39

Tgt Ion:180 Resp: 2534
 Ion Ratio Lower Upper
 180 100
 182 102.4 76.6 114.8
 145 32.6 26.2 39.4



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: 2.653 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

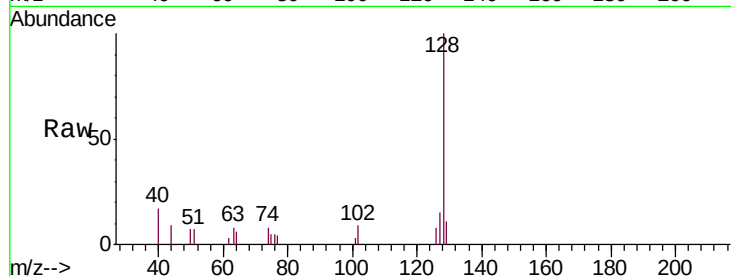
Tgt Ion:128 Resp: 6654

Ion Ratio Lower Upper

128 100

127 14.9 10.5 15.7

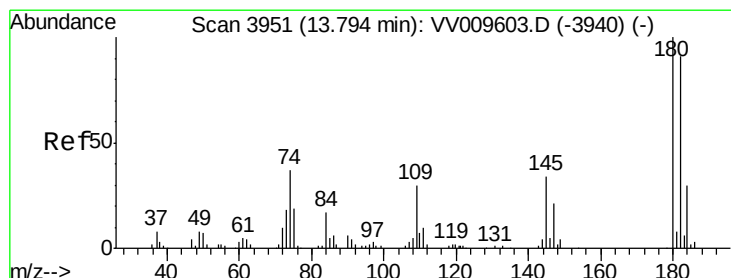
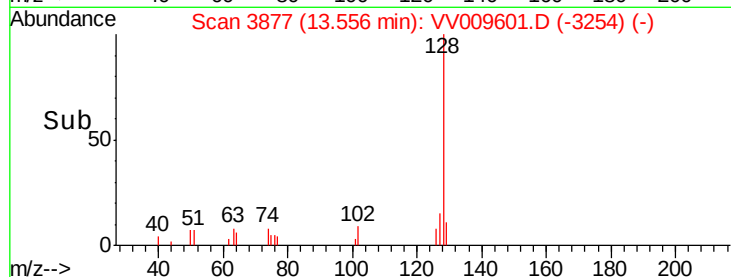
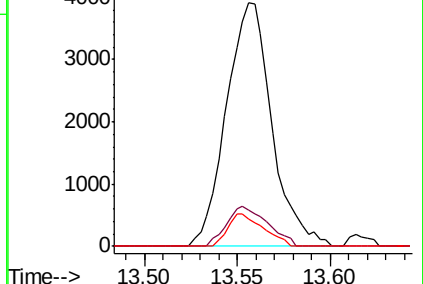
129 10.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 2.893 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009601.D

Acq: 12 Mar 2019 10:39

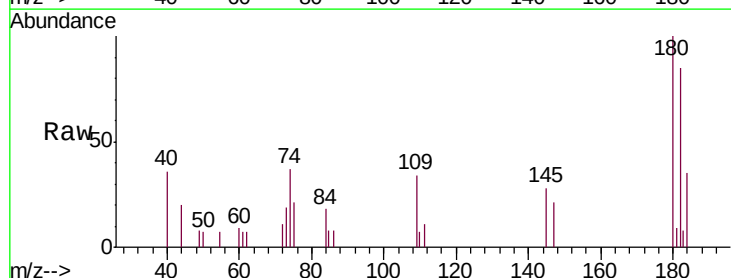
Tgt Ion:180 Resp: 2715

Ion Ratio Lower Upper

180 100

182 91.5 73.4 110.0

145 26.5 27.0 40.4#



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

