

Data File : VV010625.D
Acq On : 02 May 2019 11:55
Operator : SY/MD
Sample : VSTD00561
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Quant Time: May 02 12:49:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050219S.M
Quant Title : VOC Analysis
QLast Update : Thu May 02 12:45:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	158313	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	163410	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	78989	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	10629	4.87	ug/L	0.00
7) Chloroethane-d5	1.57	69	7534	4.44	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	18855	4.63	ug/L	0.00
20) 2-Butanone-d5	3.94	46	5044	9.89	ug/L	0.01
24) Chloroform-d	4.40	84	19684	5.09	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	11049	4.66	ug/L	0.00
29) Benzene-d6	5.10	84	40821	5.41	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	12143	5.46	ug/L	0.00
37) Toluene-d8	7.36	98	36070	4.64	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	4279	3.90	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	3841	8.69	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	10789	4.98	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	14427	4.81	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	13604	5.634 ug/L	97
3) Chloromethane	1.25	50	13127	6.552 ug/L	99
5) Vinyl chloride	1.32	62	11509	4.862 ug/L	99
6) Bromomethane	1.51	94	5612	4.548 ug/L	96
8) Chloroethane	1.59	64	6266	4.708 ug/L	98
9) Trichlorofluoromethane	1.76	101	20545	5.081 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	10552	4.660 ug/L	97
12) 1,1-Dichloroethene	2.14	96	9157	4.593 ug/L	91
13) Acetone	2.19	43	6160	11.269 ug/L	98
14) Carbon disulfide	2.31	76	30586	6.865 ug/L	100
15) Methyl Acetate	2.46	43	5643	6.936 ug/L	95
16) Methylene chloride	2.53	84	12943	5.575 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	24362	5.155 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	11315	6.417 ug/L	96
19) 1,1-Dichloroethane	3.23	63	19284	6.120 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	11332	5.701 ug/L	94
23) Bromochloromethane	4.30	128	5675	5.918 ug/L	96
25) Chloroform	4.43	83	21883	5.780 ug/L	99
27) 1,2-Dichloroethane	5.18	62	13994	5.270 ug/L	98
30) Cyclohexane	4.72	56	16037	5.539 ug/L	96
31) 1,1,1-Trichloroethane	4.66	97	17777	5.090 ug/L	100
32) Carbon tetrachloride	4.88	117	15951	4.819 ug/L	97
34) Benzene	5.14	78	42497	5.884 ug/L	100
35) Trichloroethene	5.96	95	12503	5.708 ug/L	99
36) Methylcyclohexane	6.17	83	18406	5.625 ug/L	99
40) 1,2-Dichloropropane	6.22	63	11056	6.219 ug/L	98
41) Bromodichloromethane	6.56	83	14196	5.178 ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	14981	5.103 ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	13668	10.353 ug/L	97
44) Toluene	7.43	91	45256	5.185 ug/L	99

Data File : VV010625.D
Acq On : 02 May 2019 11:55
Operator : SY/MD
Sample : VSTD00561
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Quant Time: May 02 12:49:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050219S.M
Quant Title : VOC Analysis
QLast Update : Thu May 02 12:45:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	7.69	75	11909	4.443	ug/L	94
46) 1,1,2-Trichloroethane	7.88	97	9336	5.856	ug/L	90
47) Tetrachloroethene	8.02	164	9528	4.900	ug/L	98
49) 2-Hexanone	8.18	43	10241	10.927	ug/L #	94
50) Dibromochloromethane	8.29	129	9390	4.369	ug/L	92
51) 1,2-Dibromoethane	8.40	107	8707	5.205	ug/L #	93
52) Chlorobenzene	8.93	112	33412	5.460	ug/L	98
53) Ethylbenzene	9.05	91	51401	5.036	ug/L	100
54) m,p-Xylene	9.18	106	18832	4.707	ug/L	99
55) o-xylene	9.59	106	18805	4.719	ug/L	98
56) Styrene	9.60	104	30525	4.642	ug/L	100
57) Isopropylbenzene	9.97	105	48537	4.508	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	10925	5.289	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	8156	5.330	ug/L	96
62) Bromoform	9.77	173	5540	4.683	ug/L #	98
63) 1,3-Dichlorobenzene	11.23	146	24572	5.319	ug/L	95
64) 1,4-Dichlorobenzene	11.32	146	25196	5.328	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	23118	5.150	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	1661	5.583	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	18047	4.889	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	12759	4.582	ug/L	96
69) Naphthalene	13.55	128	20940	4.679	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	11794	4.576	ug/L	98

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

Data File : VV010625.D

Acq On : 02 May 2019 11:55

Operator : SY/MD

Sample : VSTD00561

Misc : 5.00G/10ML/MSV0A V/SOIL

```
ALS Vial      : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

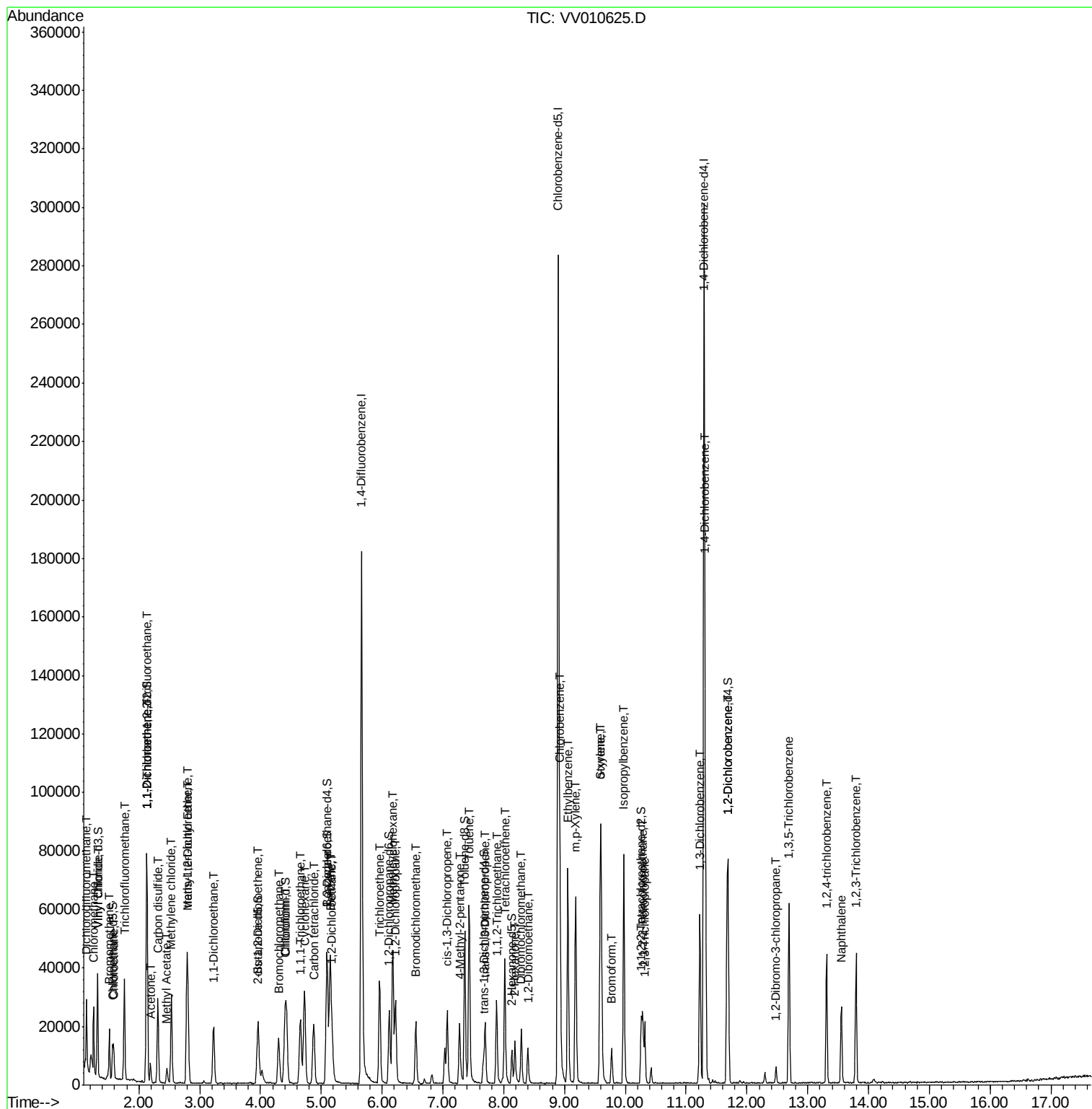
Quant Time: May 02 12:49:14 2019

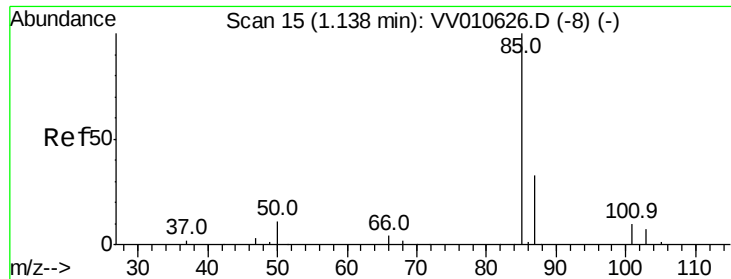
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM050219S.M

Quant Title : VOC Analysis

QLast Update : Thu May 02 12:45:39 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.634 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

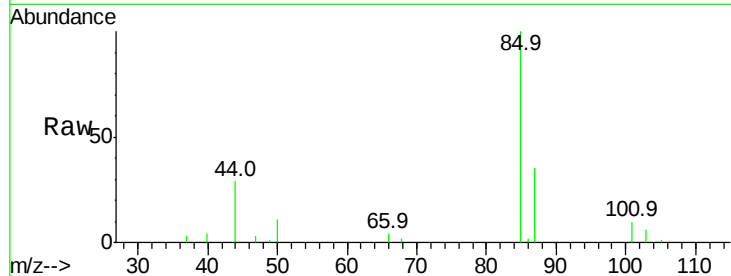
VSTD00561

Tgt Ion: 85 Resp: 13604

Ion Ratio Lower Upper

85 100

87 34.4 23.0 42.8



Abundance Ion 85.00 (84.70 to 85.70): VV010625.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010625.D (-8) (-)

1.14

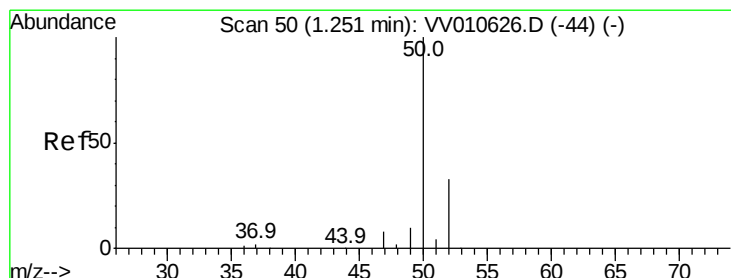
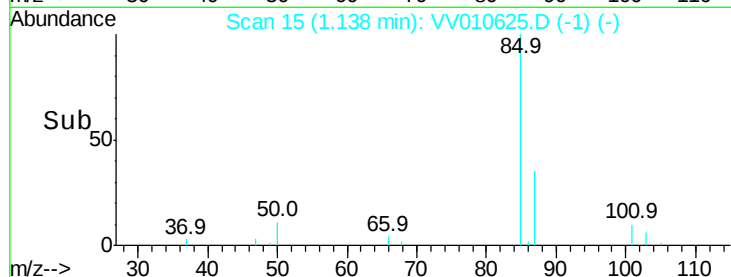
15000

10000

5000

0

Time-->



#3

Chloromethane

Concen: 6.552 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010625.D

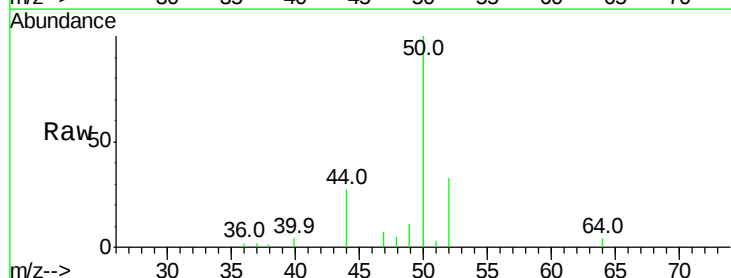
Acq: 02 May 2019 11:55

Tgt Ion: 50 Resp: 13127

Ion Ratio Lower Upper

50 100

52 32.7 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VV010625.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV010625.D (-44) (-)

1.25

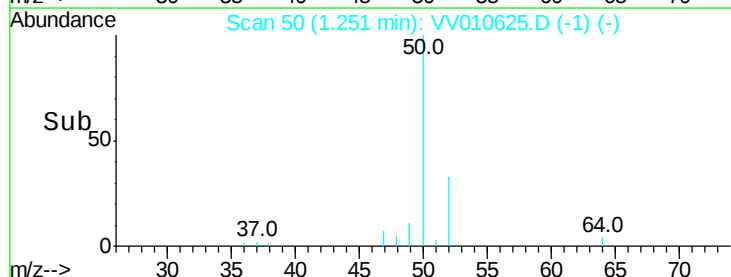
15000

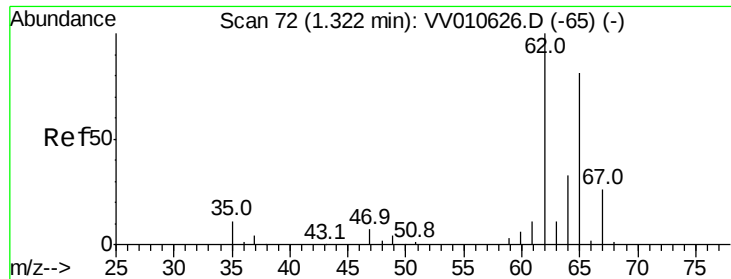
10000

5000

0

Time-->





#5

Vinyl chloride

Concen: 4.862 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampled :

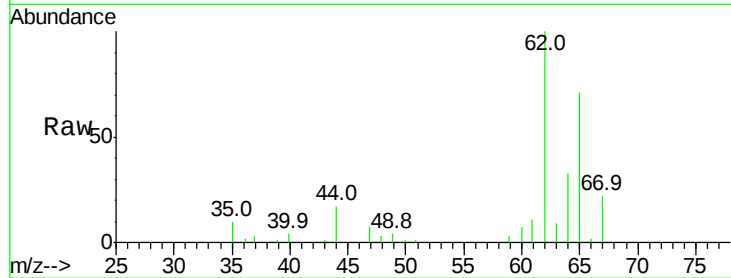
VSTD00561

Tgt Ion: 62 Resp: 11509

Ion Ratio Lower Upper

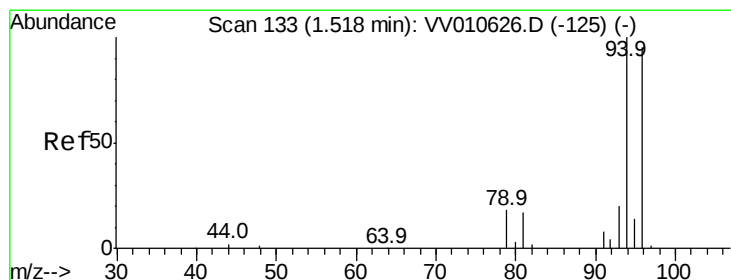
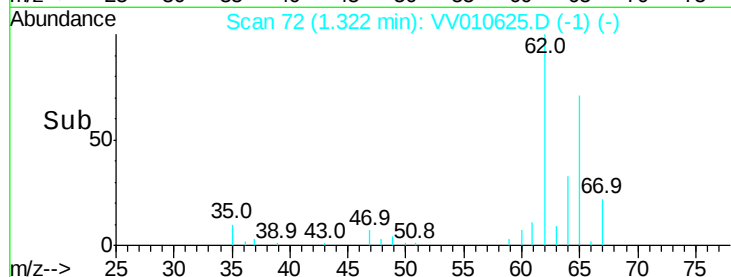
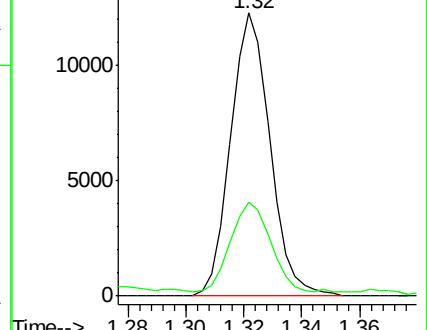
62 100

64 33.1 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 4.548 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV010625.D

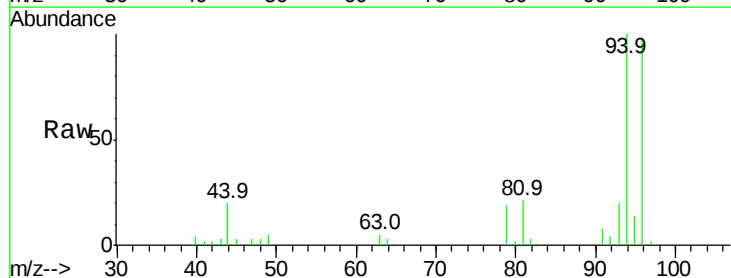
Acq: 02 May 2019 11:55

Tgt Ion: 94 Resp: 5612

Ion Ratio Lower Upper

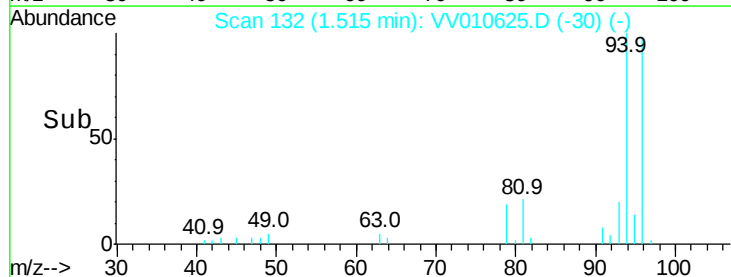
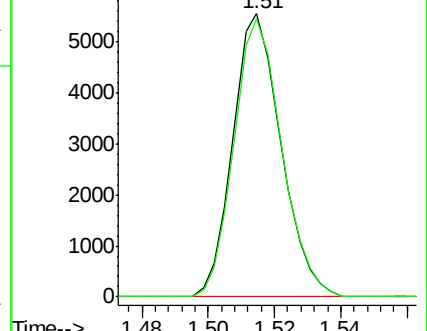
94 100

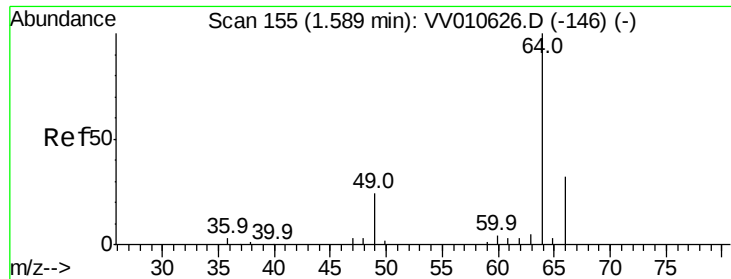
96 97.4 9.4 178.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

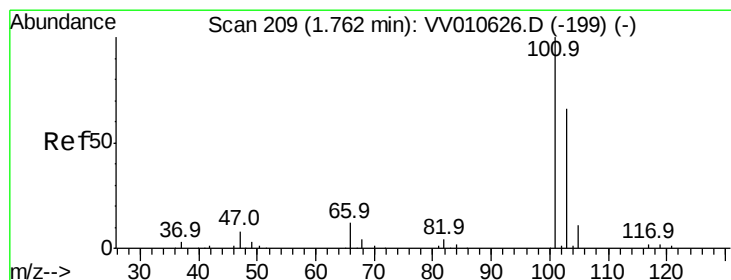
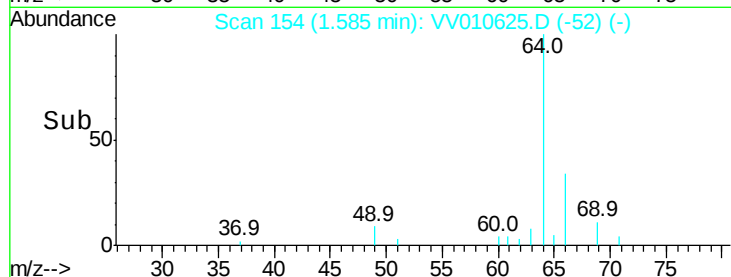
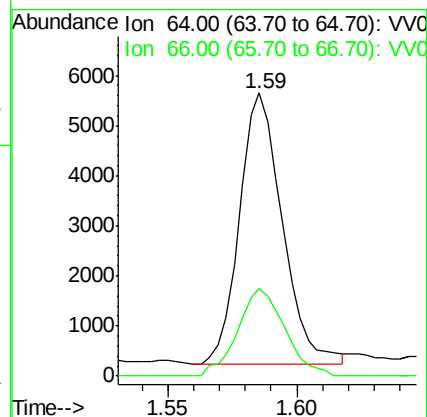
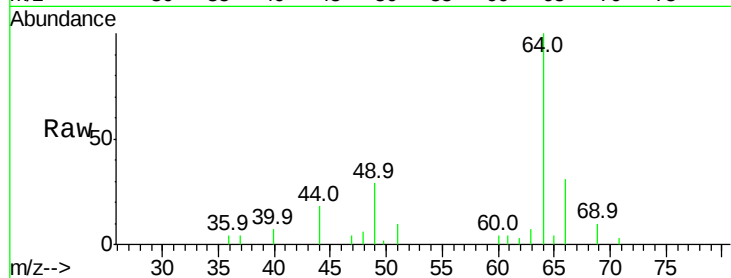




#8
 Chloroethane
 Concen: 4.708 ug/L
 RT: 1.59 min Scan# 154
 Delta R.T. -0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

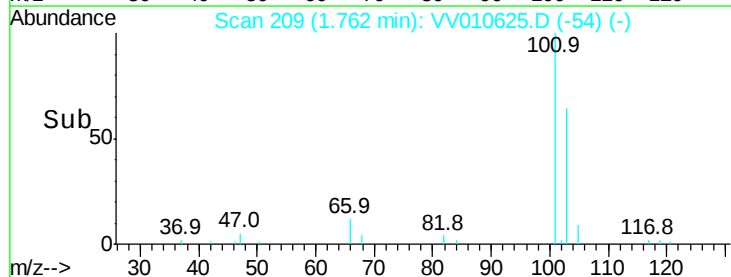
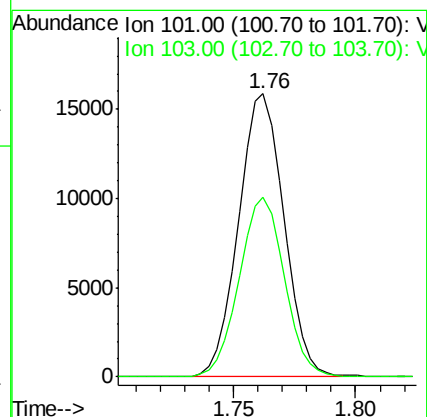
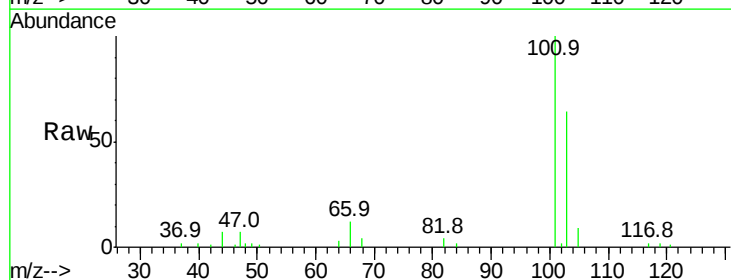
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

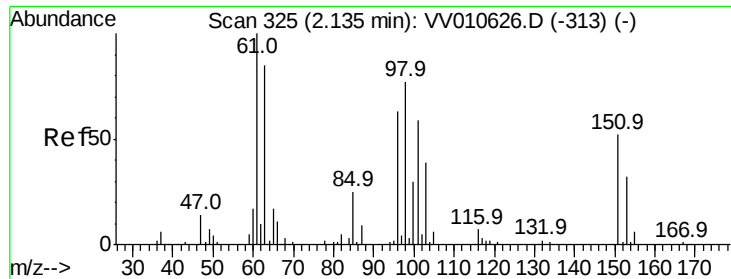
Tgt Ion: 64 Resp: 6266
 Ion Ratio Lower Upper
 64 100
 66 30.7 22.5 41.7



#9
 Trichlorofluoromethane
 Concen: 5.081 ug/L
 RT: 1.76 min Scan# 209
 Delta R.T. -0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

Tgt Ion: 101 Resp: 20545
 Ion Ratio Lower Upper
 101 100
 103 62.9 45.1 83.9





#11

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

Concen: 4.660 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampled :

VSTD00561

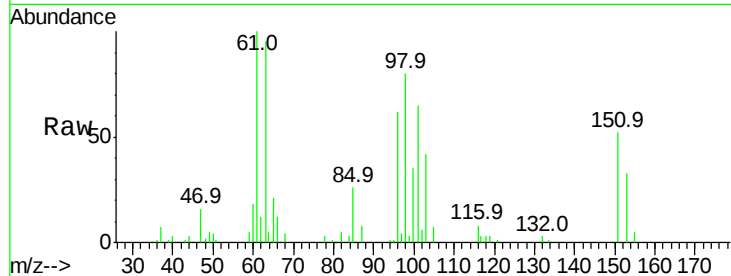
Tgt Ion:101 Resp: 10552

Ion Ratio Lower Upper

101 100

85 41.4 34.6 51.8

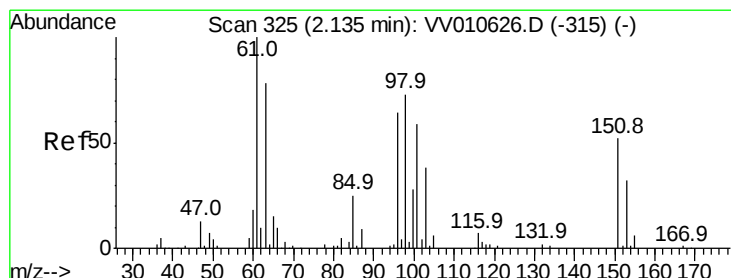
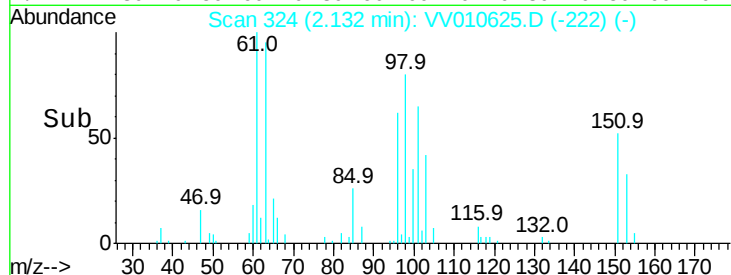
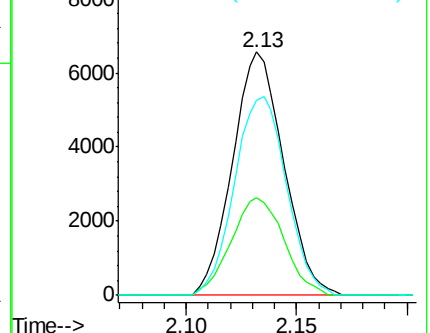
151 83.0 68.6 103.0



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: 4.593 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

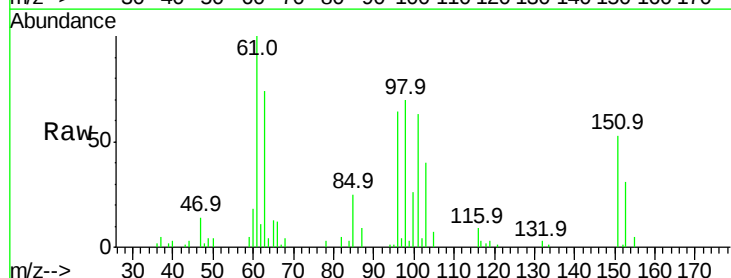
Tgt Ion: 96 Resp: 9157

Ion Ratio Lower Upper

96 100

61 155.5 111.1 206.3

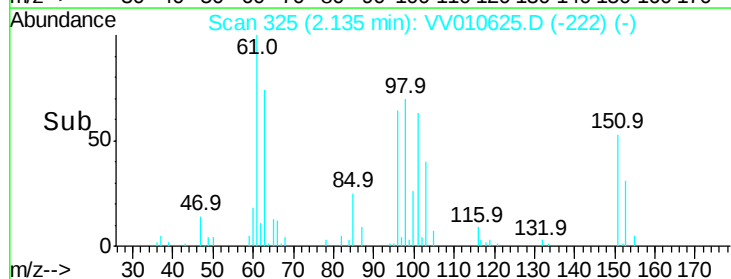
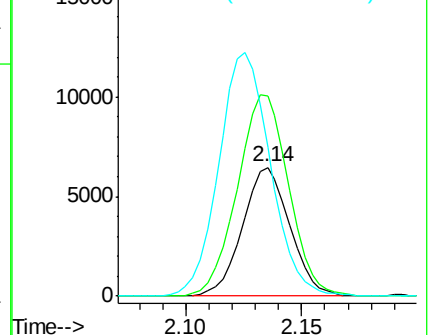
63 115.4 95.2 176.8

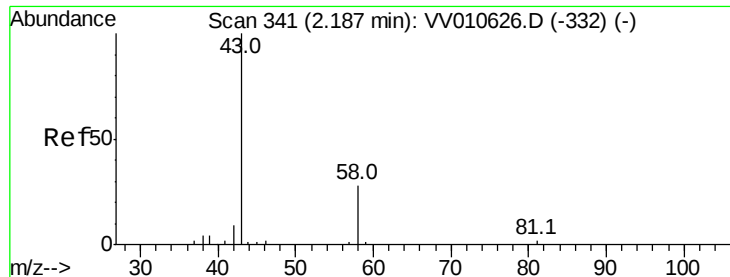


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 11.269 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

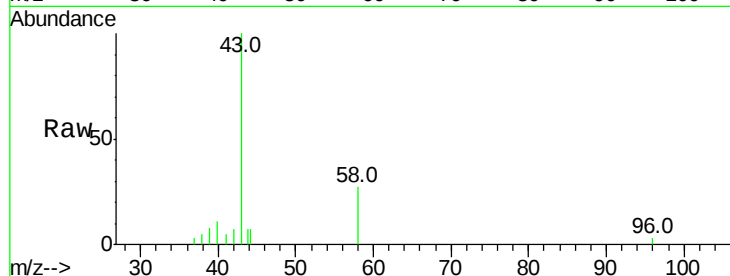
VSTD00561

Tgt Ion: 43 Resp: 6160

Ion Ratio Lower Upper

43 100

58 27.9 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VV010625.D (-238) (-)

Ion 58.00 (57.70 to 58.70): VV010625.D (-238) (-)

2.19

4000

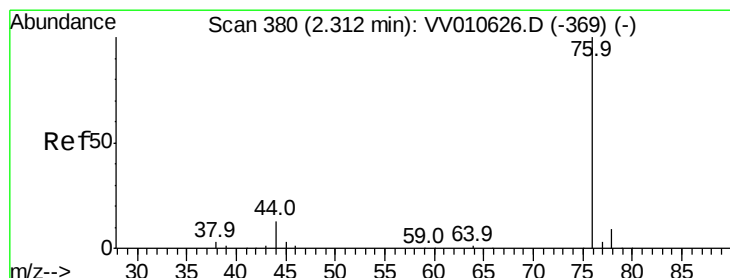
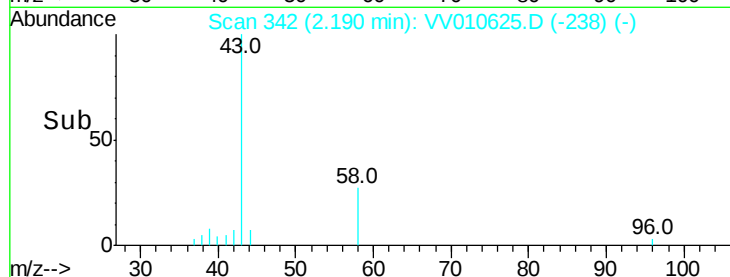
3000

2000

1000

0

Time-->



#14

Carbon disulfide

Concen: 6.865 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010625.D

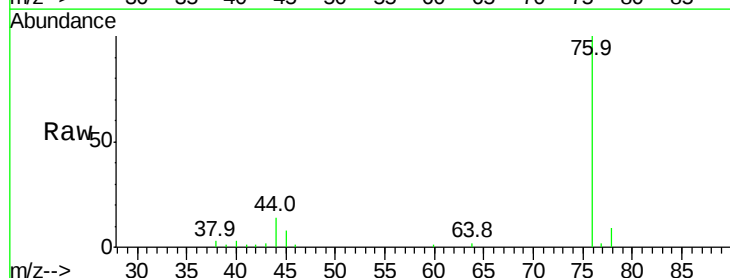
Acq: 02 May 2019 11:55

Tgt Ion: 76 Resp: 30586

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV010625.D (-225) (-)

Ion 78.00 (77.70 to 78.70): VV010625.D (-225) (-)

2.31

20000

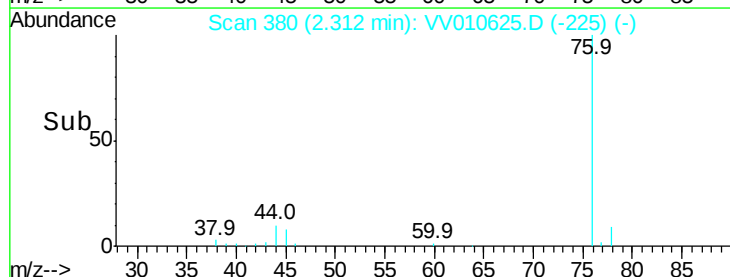
15000

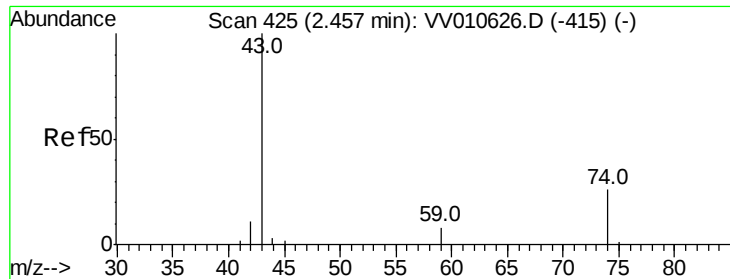
10000

5000

0

Time-->





#15

Methyl Acetate

Concen: 6.936 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

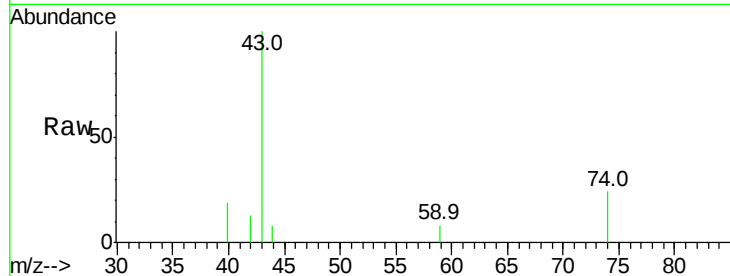
VSTD00561

Tgt Ion: 43 Resp: 5643

Ion Ratio Lower Upper

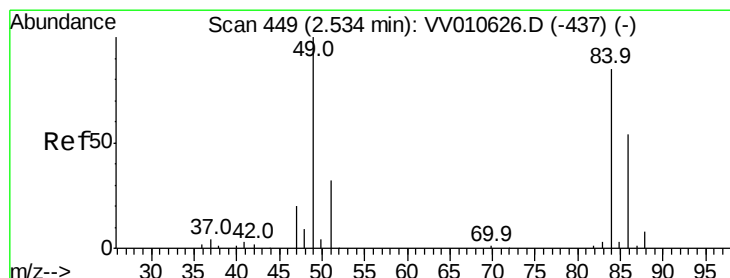
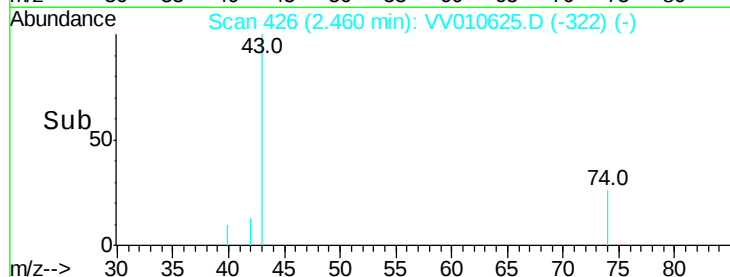
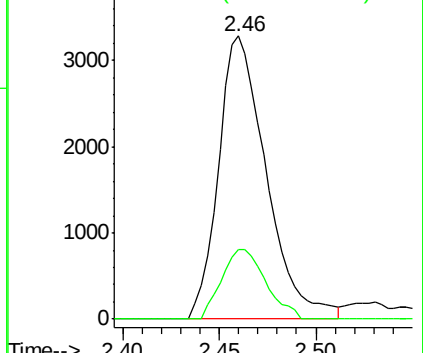
43 100

74 22.7 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 5.575 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

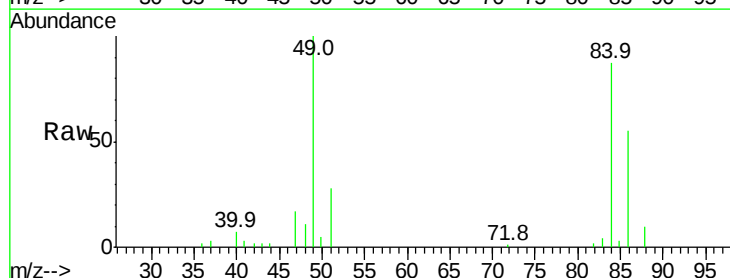
Tgt Ion: 84 Resp: 12943

Ion Ratio Lower Upper

84 100

49 114.9 81.9 152.1

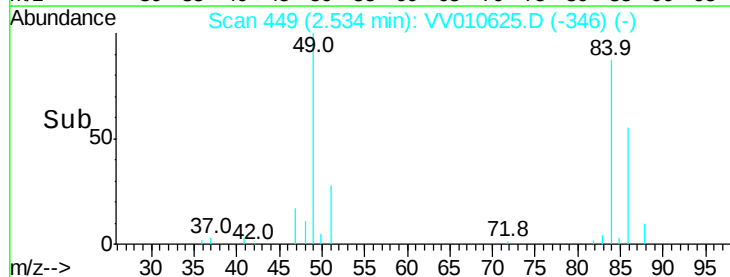
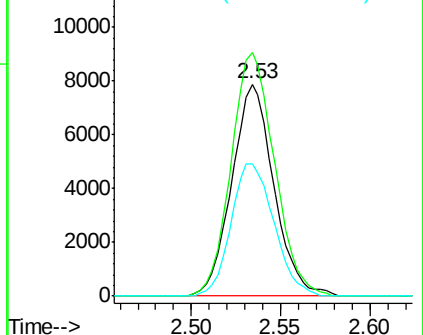
86 62.7 44.0 81.6

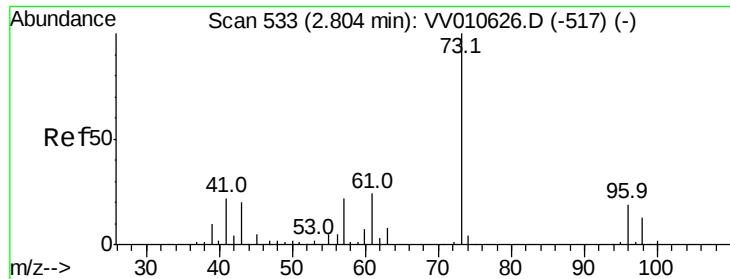


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

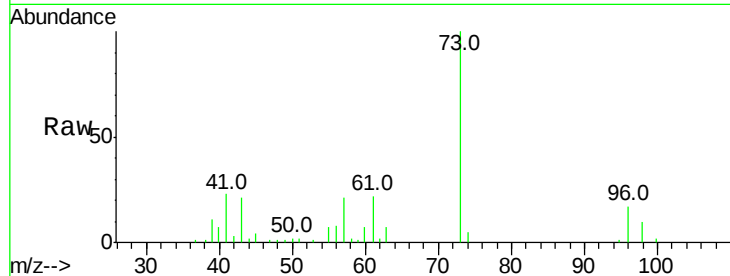




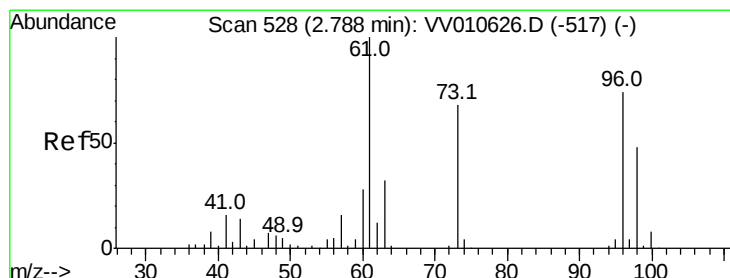
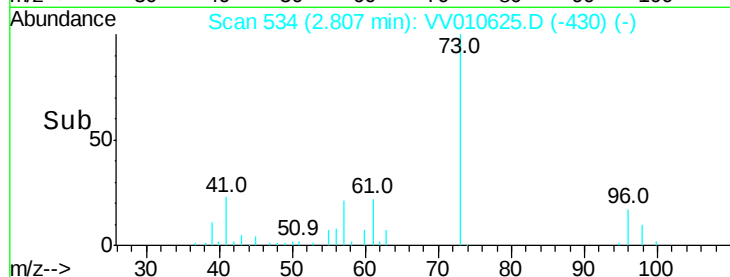
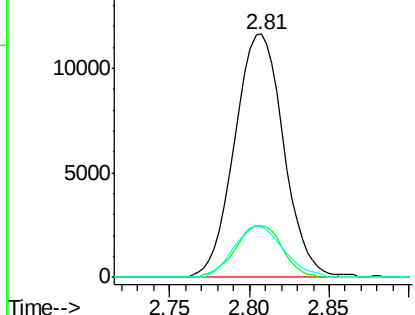
#17
Methyl tert-butyl Ether
Concen: 5.155 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV010625.D
Acq: 02 May 2019 11:55

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tgt Ion: 73 Resp: 24362
Ion Ratio Lower Upper
73 100
43 20.5 15.9 23.9
57 21.2 17.9 26.9

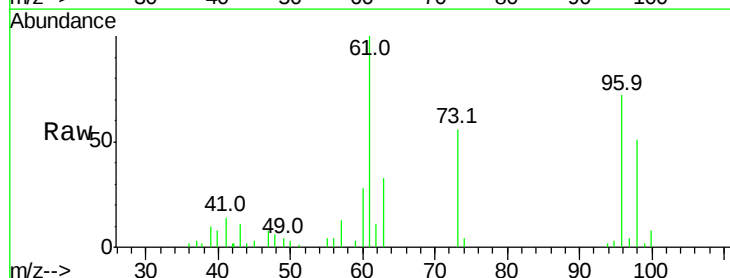


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

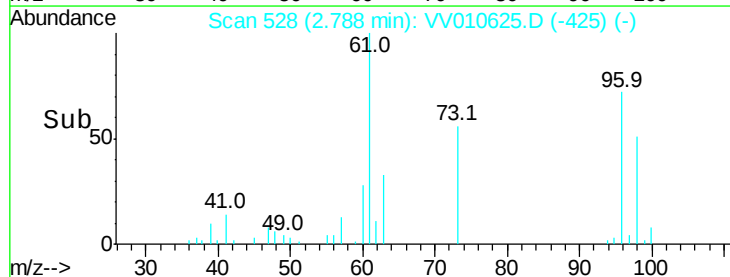
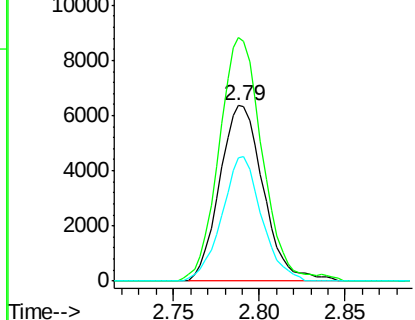


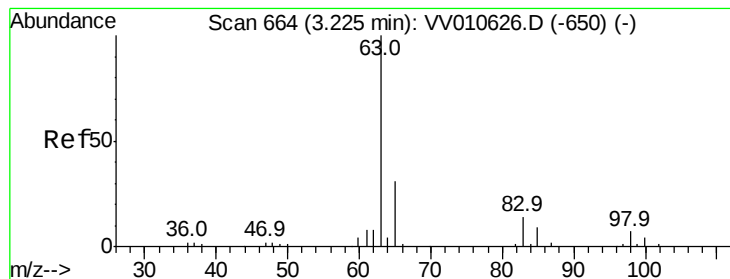
#18
trans-1,2-Dichloroethene
Concen: 6.417 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV010625.D
Acq: 02 May 2019 11:55

Tgt Ion: 96 Resp: 11315
Ion Ratio Lower Upper
96 100
61 138.6 94.6 175.8
98 70.3 45.2 84.0



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





#19

1,1-Dichloroethane

Concen: 6.120 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

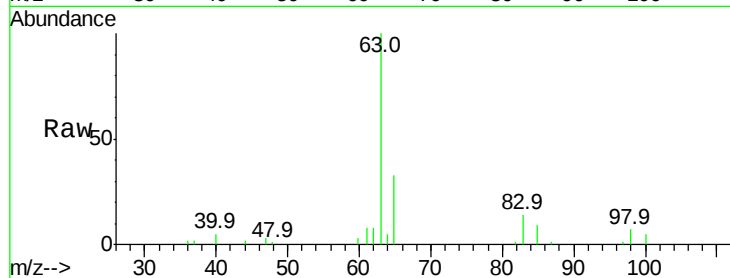
Tgt Ion: 63 Resp: 19284

Ion Ratio Lower Upper

63 100

65 33.3 22.0 40.8

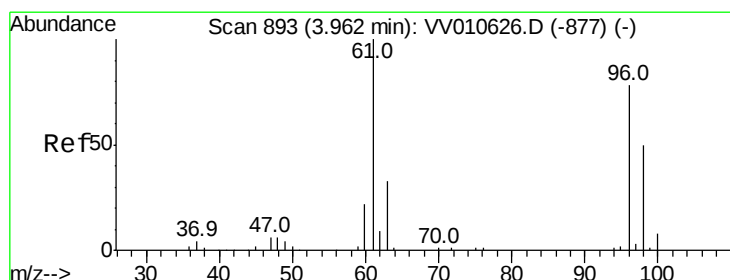
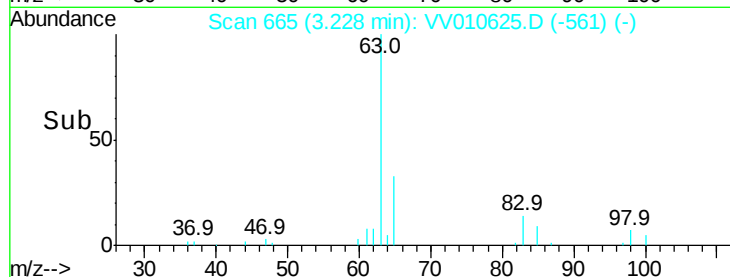
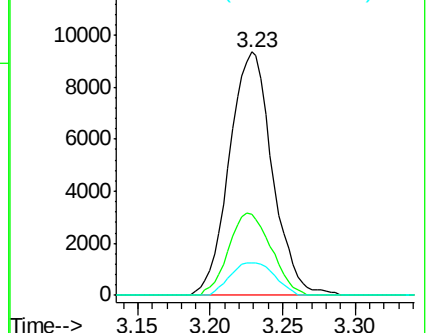
83 13.5 10.0 18.6



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



#22

cis-1,2-Dichloroethene

Concen: 5.701 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

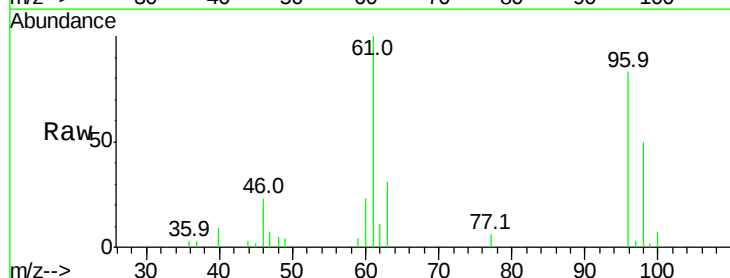
Tgt Ion: 96 Resp: 11332

Ion Ratio Lower Upper

96 100

61 120.4 89.6 166.4

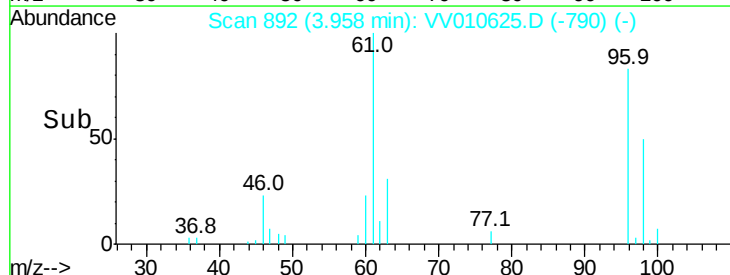
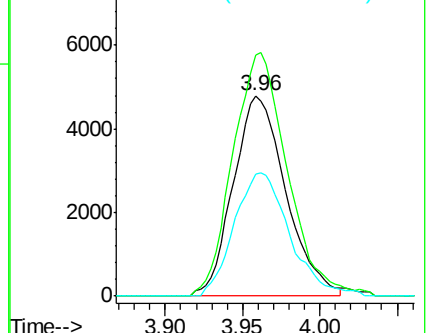
98 60.8 44.5 82.7

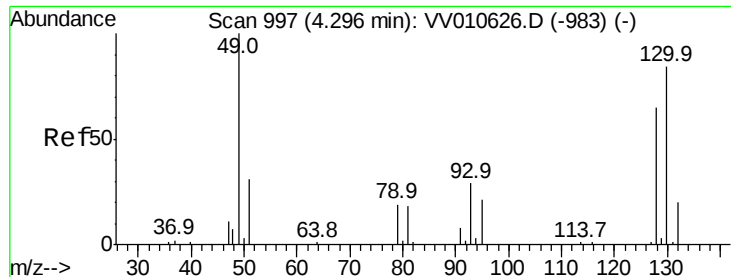


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

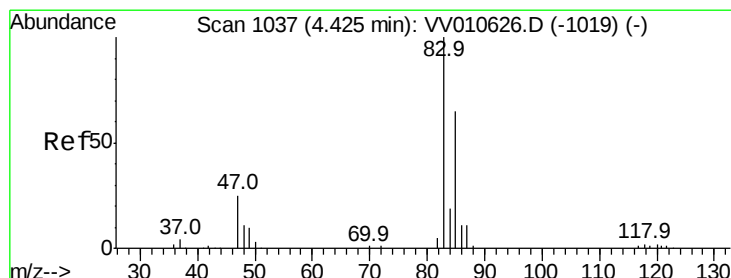
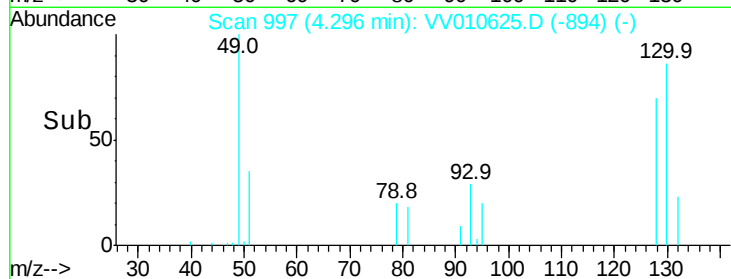
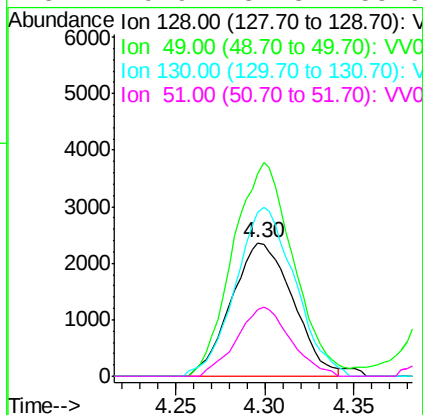
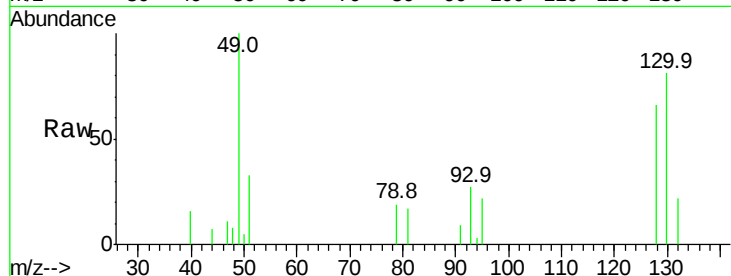




#23
 Bromochloromethane
 Concen: 5.918 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

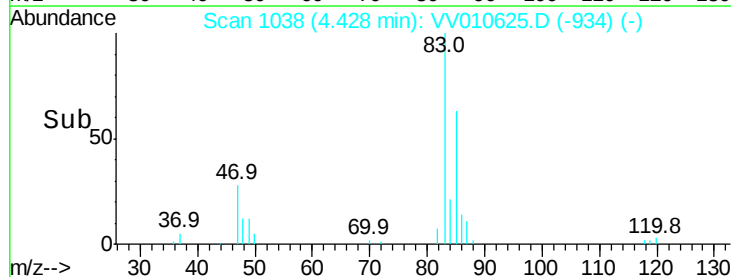
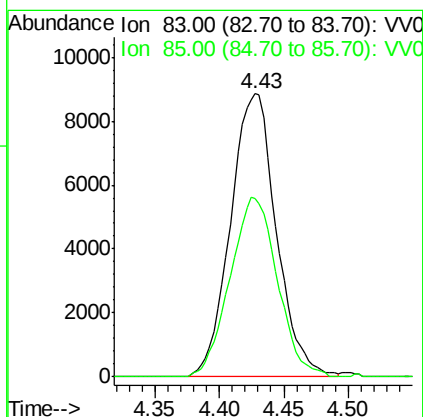
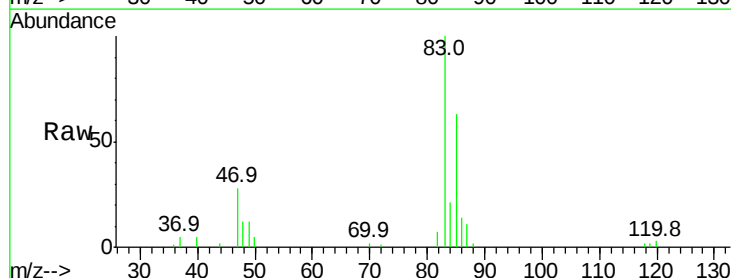
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

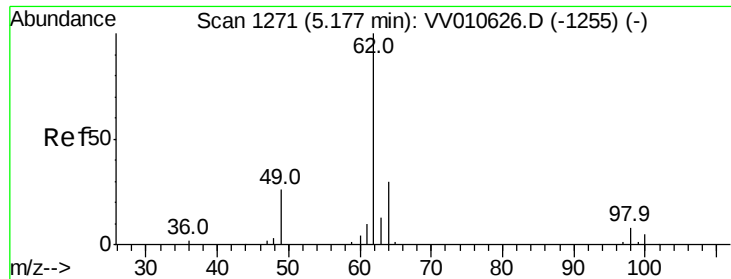
Tgt Ion:128 Resp: 5675
 Ion Ratio Lower Upper
 128 100
 49 151.2 108.0 200.6
 130 123.0 89.7 166.7
 51 49.9 37.3 55.9



#25
 Chloroform
 Concen: 5.780 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

Tgt Ion: 83 Resp: 21883
 Ion Ratio Lower Upper
 83 100
 85 65.4 46.3 86.1





#27

1,2-Dichloroethane

Concen: 5.270 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

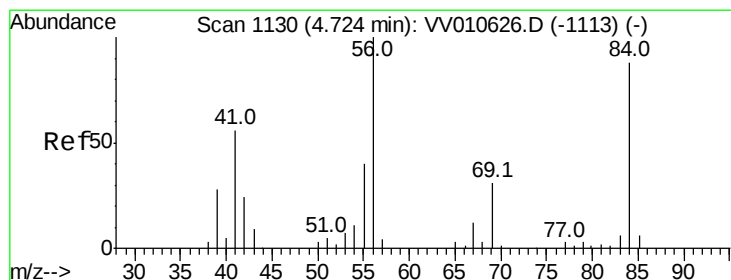
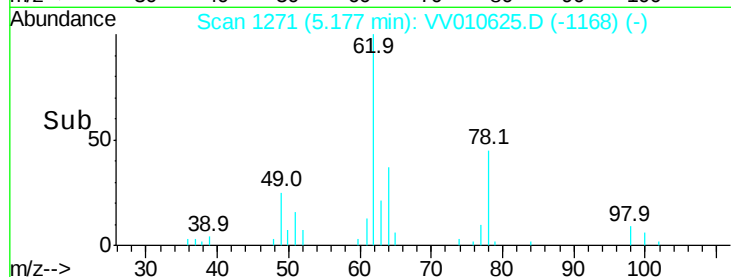
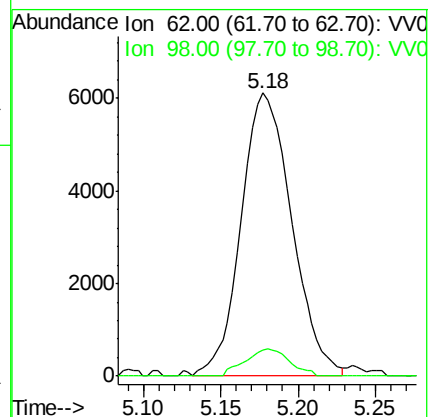
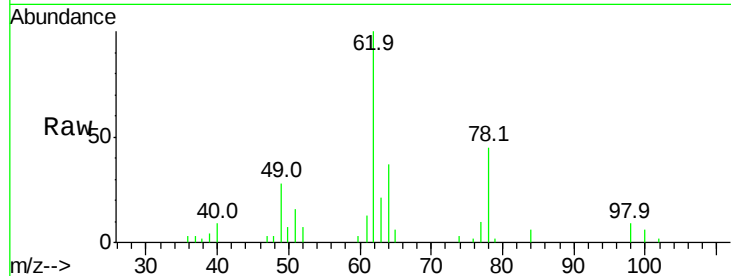
VSTD00561

Tgt Ion: 62 Resp: 13994

Ion Ratio Lower Upper

62 100

98 9.2 6.6 10.0



#30

Cyclohexane

Concen: 5.539 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

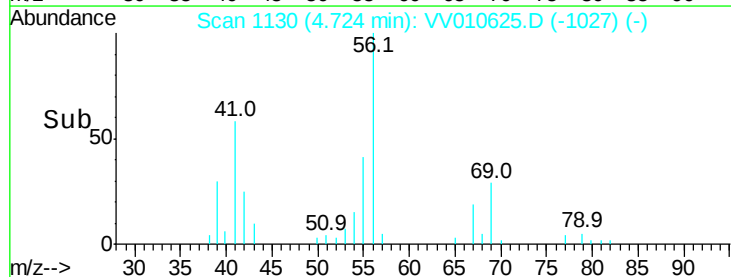
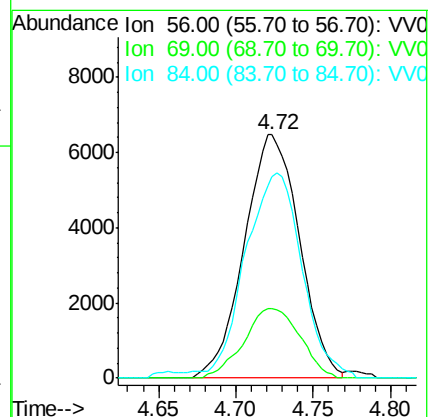
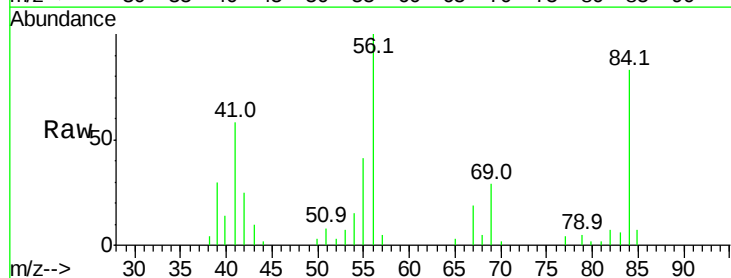
Tgt Ion: 56 Resp: 16037

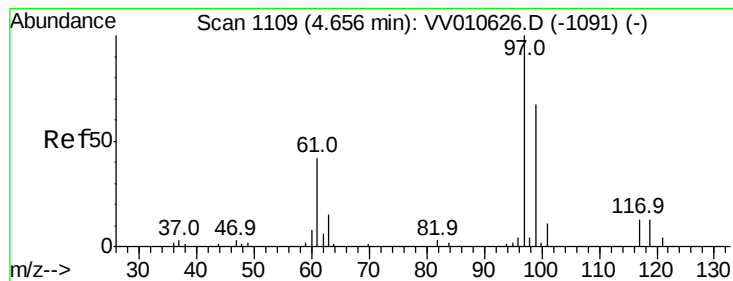
Ion Ratio Lower Upper

56 100

69 29.2 25.0 37.6

84 86.1 71.6 107.4





#31

1,1,1-Trichloroethane

Concen: 5.090 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

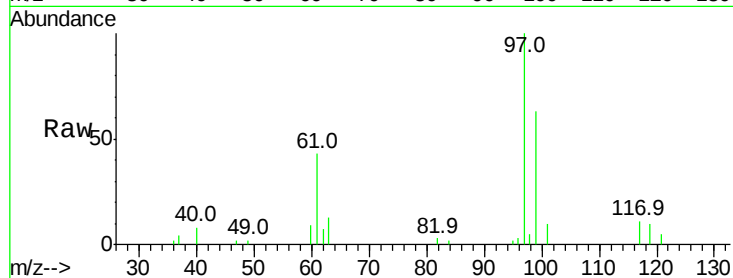
Tgt Ion: 97 Resp: 17777

Ion Ratio Lower Upper

97 100

99 63.3 50.3 75.5

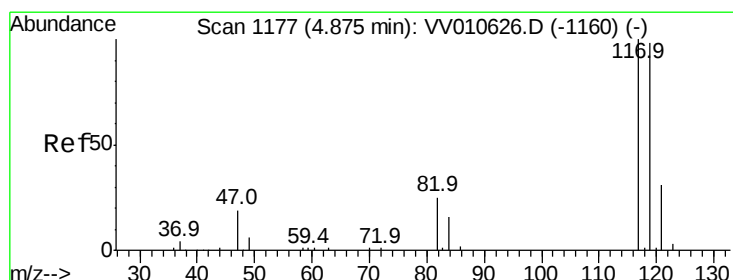
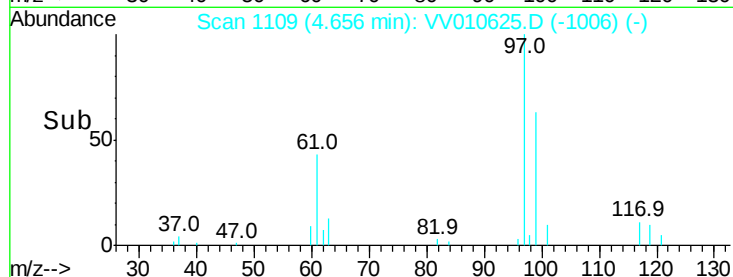
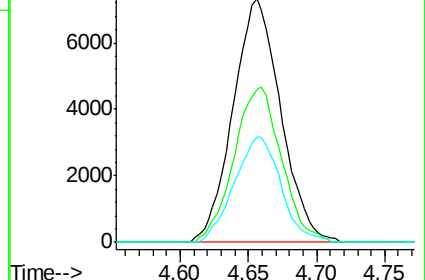
61 42.3 34.1 51.1



Abundance Ion 97.00 (96.70 to 97.70): VV010626.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV010626.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV010626.D (-1091) (-)



#32

Carbon tetrachloride

Concen: 4.819 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV010625.D

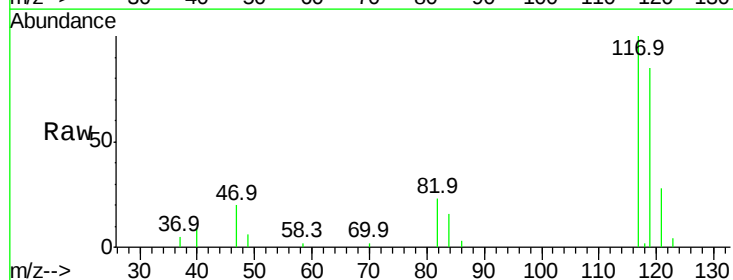
Acq: 02 May 2019 11:55

Tgt Ion: 117 Resp: 15951

Ion Ratio Lower Upper

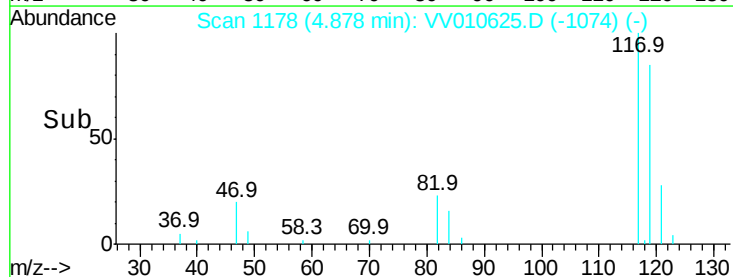
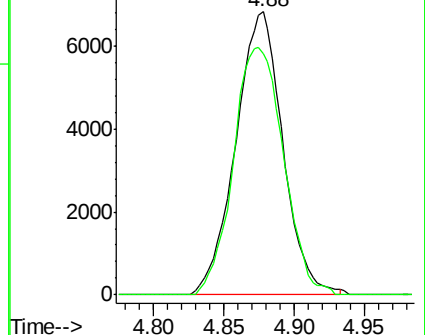
117 100

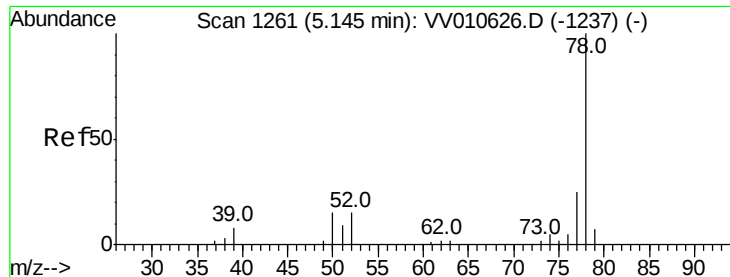
119 92.8 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): VV010626.D (-1160) (-)

Ion 119.00 (118.70 to 119.70): VV010626.D (-1160) (-)





#34

Benzene

Concen: 5.884 ug/L

RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

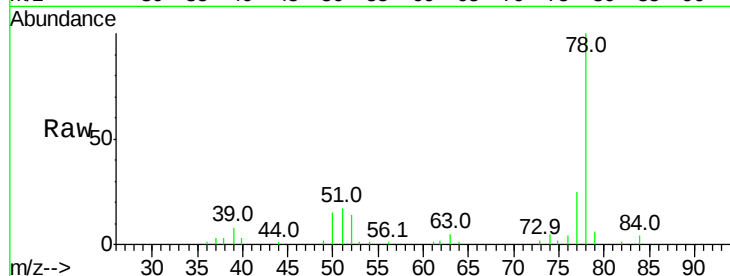
Instrument :

MSVOA_V

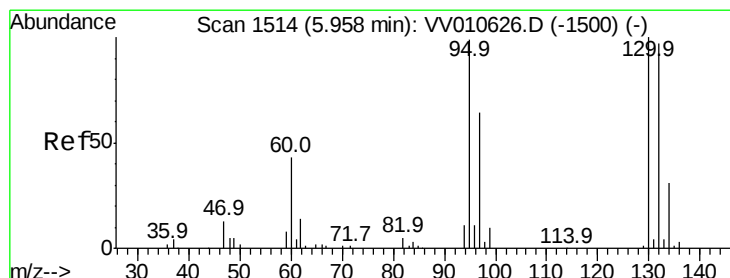
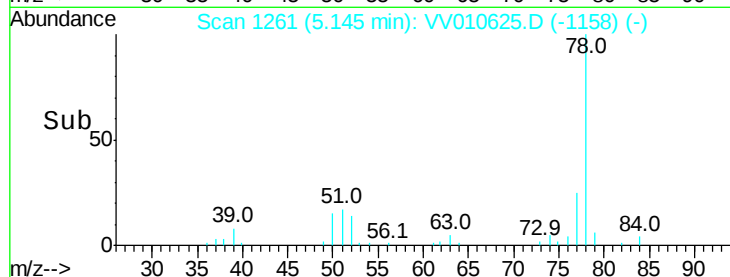
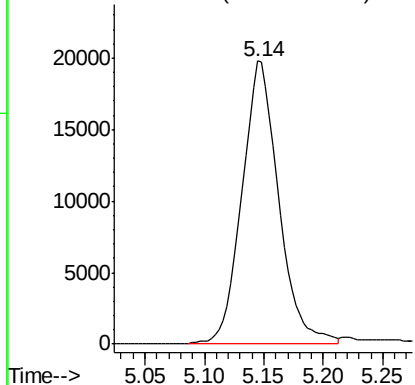
ClientSampleId :

VSTD00561

Tgt Ion: 78 Resp: 42497



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 5.708 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Tgt Ion: 95 Resp: 12503

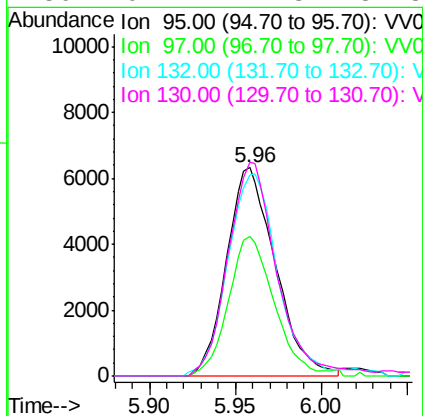
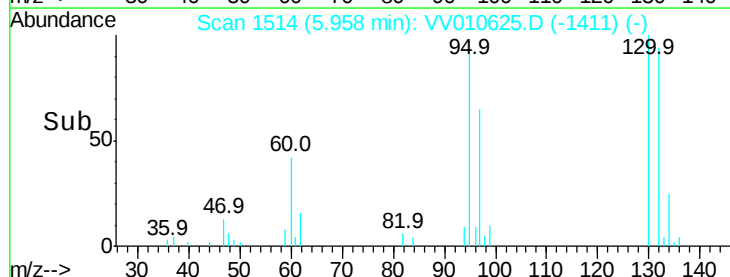
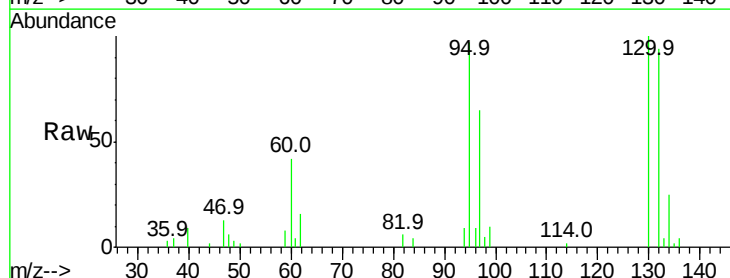
Ion	Ratio	Lower	Upper
95	100		
97	62.2	45.0	83.6
132	98.3	69.9	129.9
130	102.4	71.3	132.3

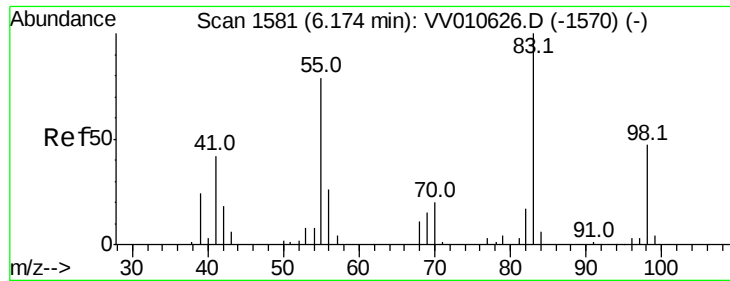
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

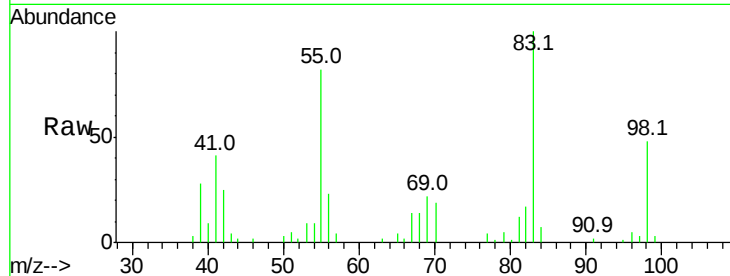




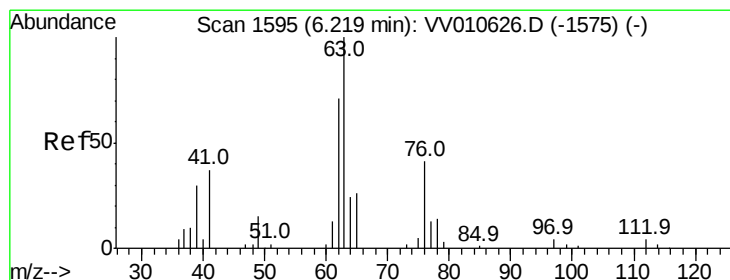
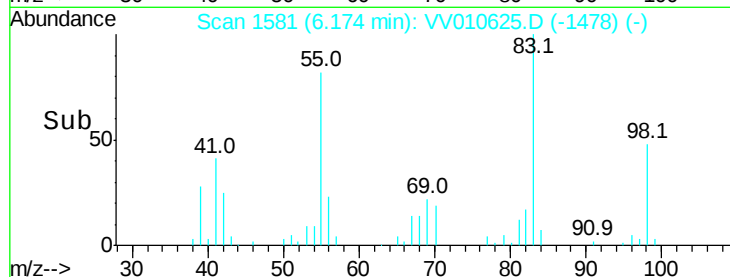
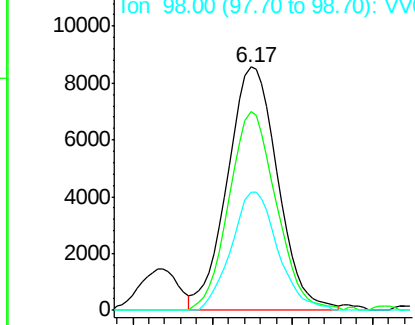
#36
Methylcyclohexane
Concen: 5.625 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VV010625.D
Acq: 02 May 2019 11:55

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tgt Ion: 83 Resp: 18406
Ion Ratio Lower Upper
83 100
55 76.7 61.4 92.0
98 44.7 37.4 56.2

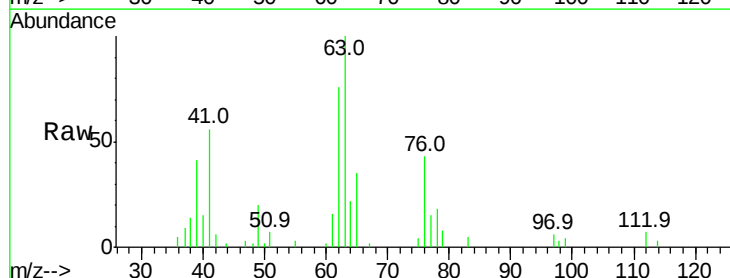


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

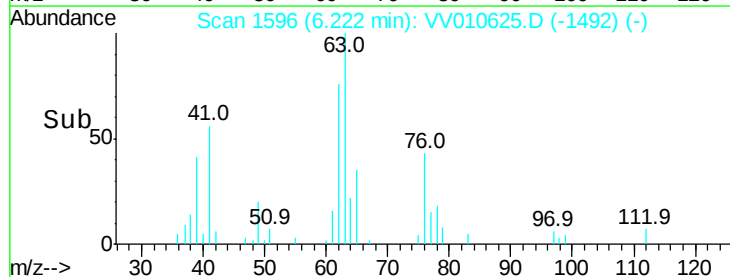
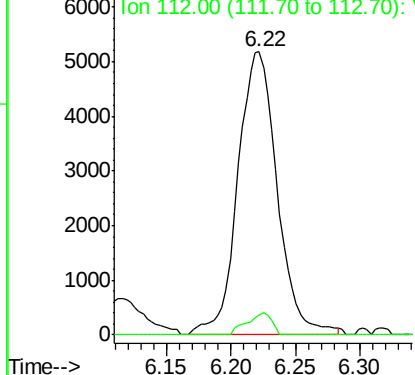


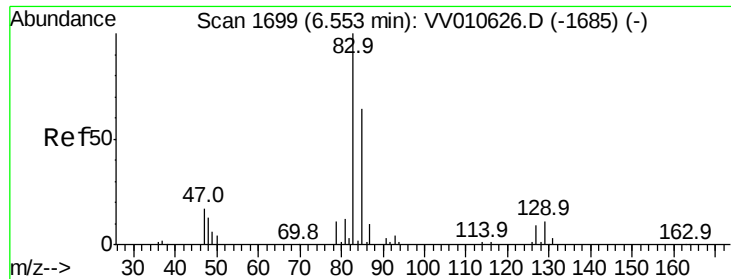
#40
1,2-Dichloropropane
Concen: 6.219 ug/L
RT: 6.22 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VV010625.D
Acq: 02 May 2019 11:55

Tgt Ion: 63 Resp: 11056
Ion Ratio Lower Upper
63 100
112 5.0 3.4 5.0



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V





#41

Bromodichloromethane

Concen: 5.178 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

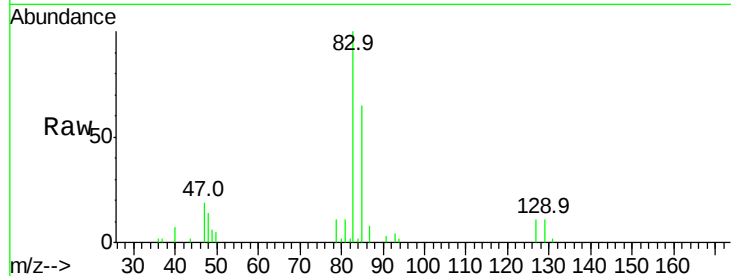
Tgt Ion: 83 Resp: 14196

Ion Ratio Lower Upper

83 100

85 64.9 45.1 83.9

127 10.8 7.2 10.8

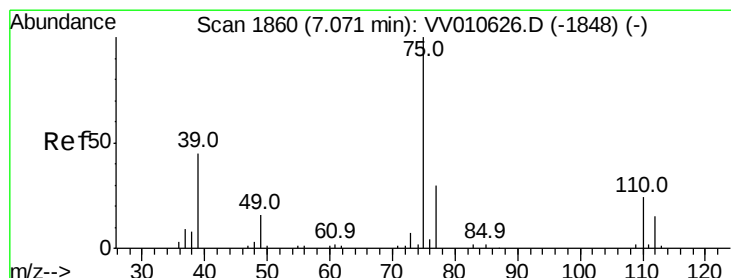
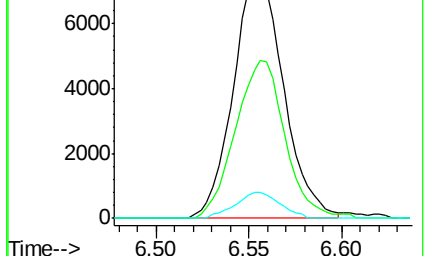
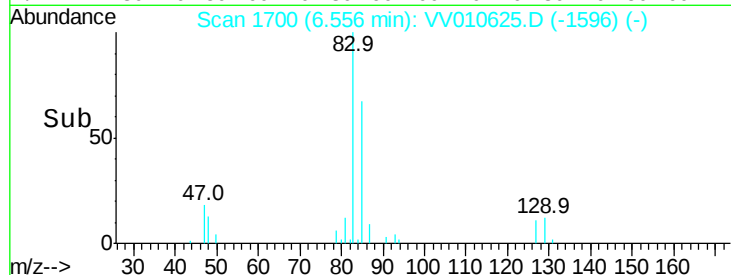


Abundance Ion 83.00 (82.70 to 83.70): VV010625.D (-1596) (-)

Ion 85.00 (84.70 to 85.70): VV010625.D (-1596) (-)

Ion 127.00 (126.70 to 127.70): VV010625.D (-1596) (-)

Time-->



#42

cis-1,3-Dichloropropene

Concen: 5.103 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV010625.D

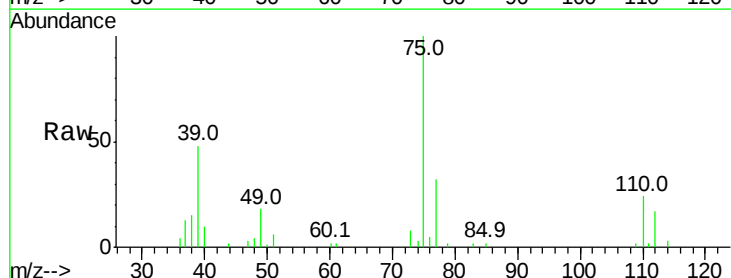
Acq: 02 May 2019 11:55

Tgt Ion: 75 Resp: 14981

Ion Ratio Lower Upper

75 100

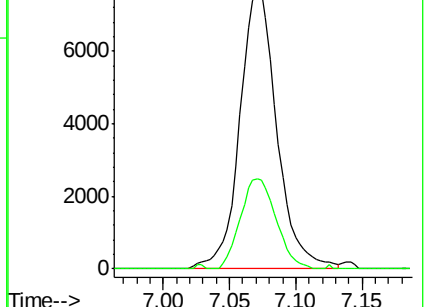
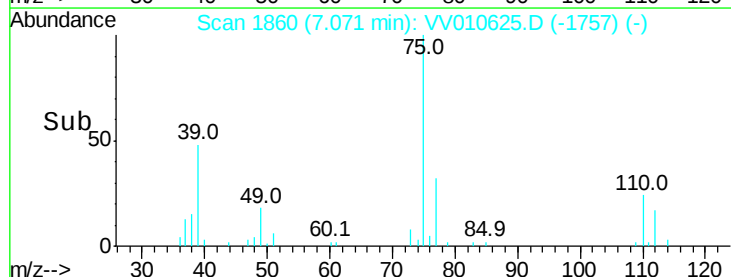
77 31.6 21.8 40.4

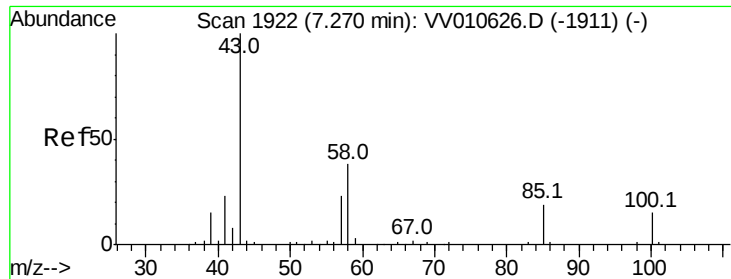


Abundance Ion 75.00 (74.70 to 75.70): VV010625.D (-1757) (-)

Ion 77.00 (76.70 to 77.70): VV010625.D (-1757) (-)

Time-->

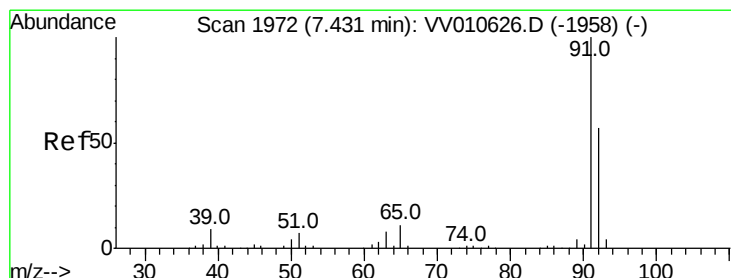
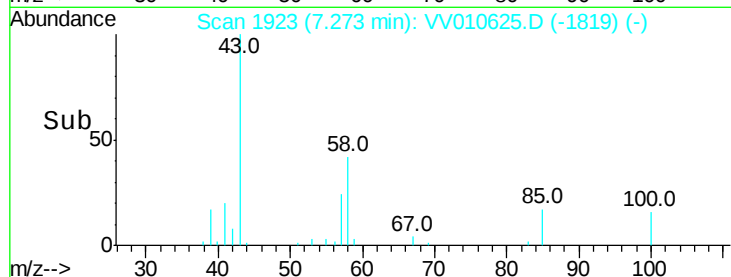
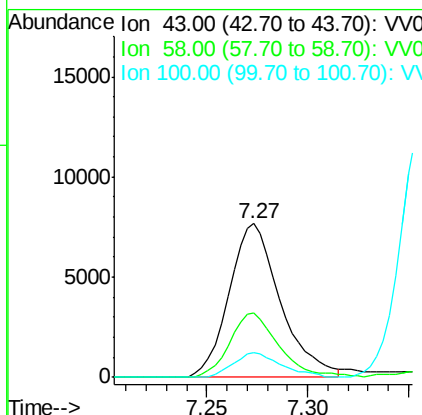
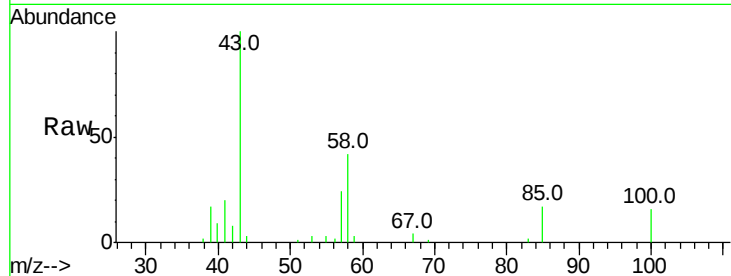




#43
4-Methyl-2-pentanone
Concen: 10.353 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV010625.D
Acq: 02 May 2019 11:55

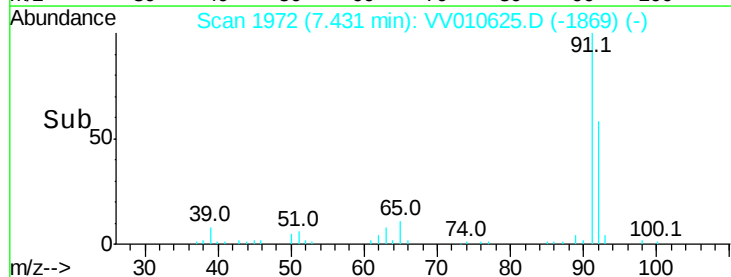
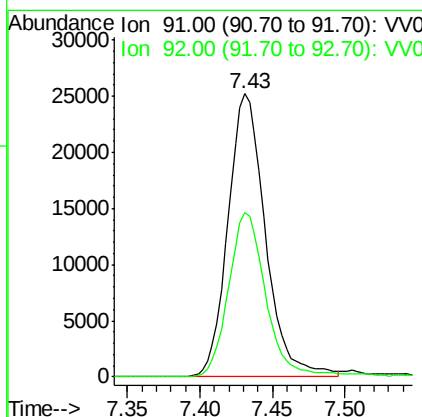
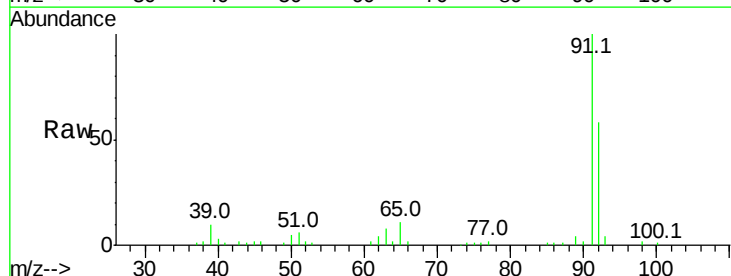
Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

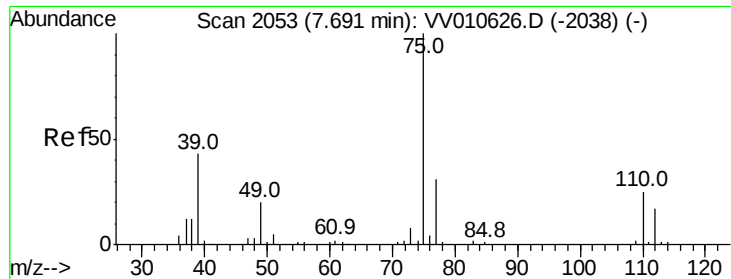
Tgt Ion: 43 Resp: 13668
Ion Ratio Lower Upper
43 100
58 38.9 29.6 44.4
100 14.9 11.2 16.8



#44
Toluene
Concen: 5.185 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VV010625.D
Acq: 02 May 2019 11:55

Tgt Ion: 91 Resp: 45256
Ion Ratio Lower Upper
91 100
92 57.9 40.1 74.5





#45

trans-1,3-Dichloropropene

Concen: 4.443 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

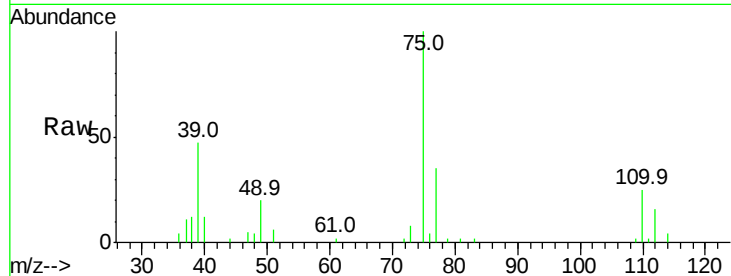
VSTD00561

Tgt Ion: 75 Resp: 11909

Ion Ratio Lower Upper

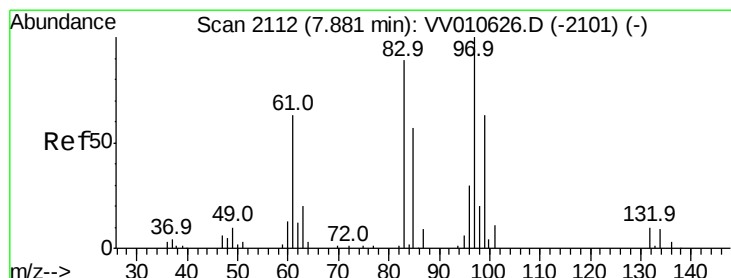
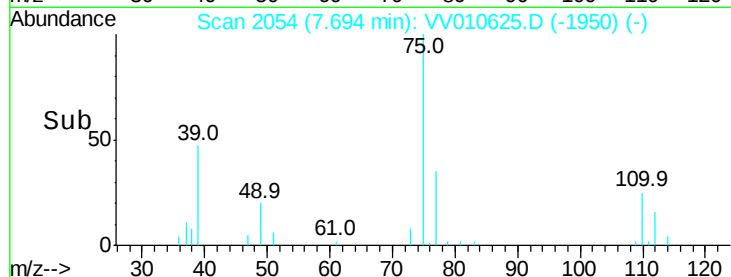
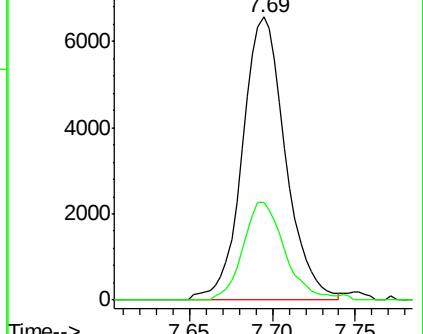
75 100

77 34.7 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VV010626.D (-2038) (-)

Ion 77.00 (76.70 to 77.70): VV010626.D (-2038) (-)



#46

1,1,2-Trichloroethane

Concen: 5.856 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Tgt Ion: 97 Resp: 9336

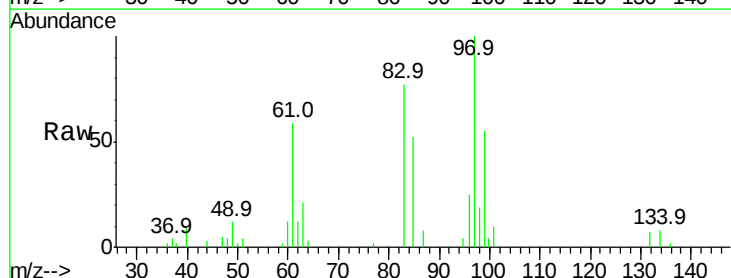
Ion Ratio Lower Upper

97 100

83 77.5 62.1 115.3

85 51.9 39.8 74.0

99 54.9 44.2 82.0

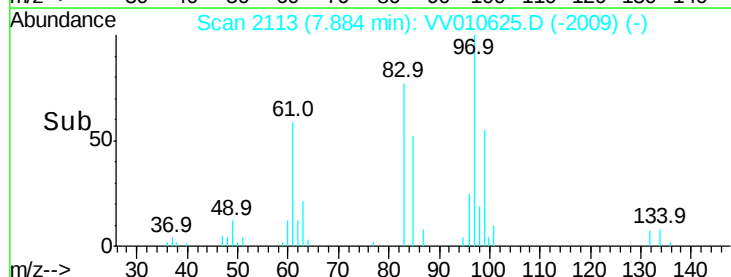
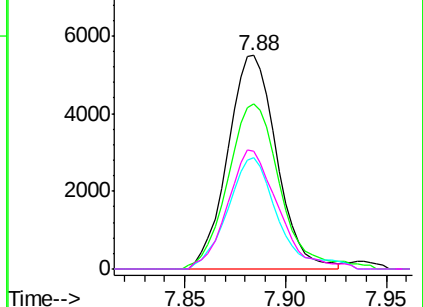


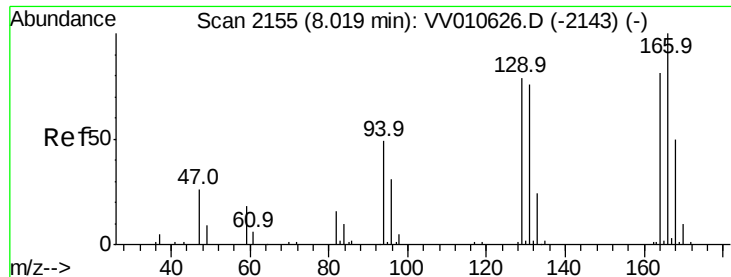
Abundance Ion 97.00 (96.70 to 97.70): VV010626.D (-2101) (-)

Ion 83.00 (82.70 to 83.70): VV010626.D (-2101) (-)

Ion 85.00 (84.70 to 85.70): VV010626.D (-2101) (-)

Ion 99.00 (98.70 to 99.70): VV010626.D (-2101) (-)





#47

Tetrachloroethene

Concen: 4.900 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

Tgt Ion:164 Resp: 9528

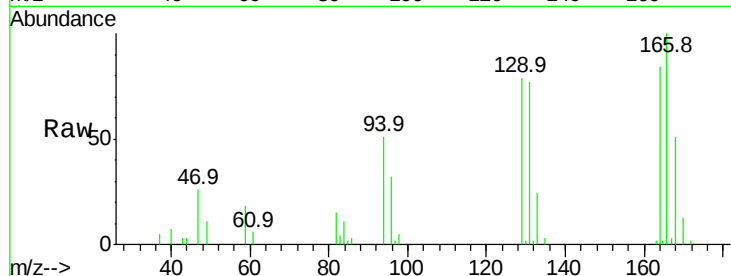
Ion Ratio Lower Upper

164 100

129 94.7 67.5 125.4

131 91.5 65.1 120.9

166 119.6 86.0 159.6

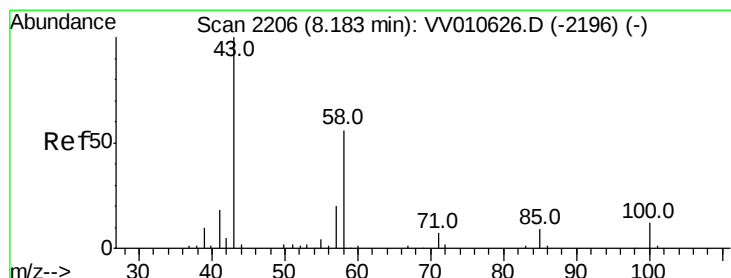
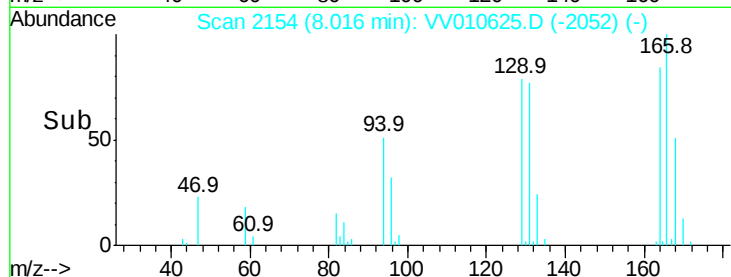
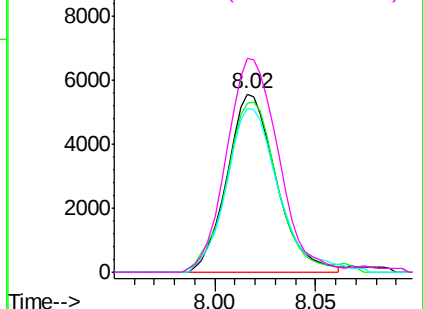


Abundance Ion 164.00 (163.70 to 164.70): V

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: 10.927 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Tgt Ion: 43 Resp: 10241

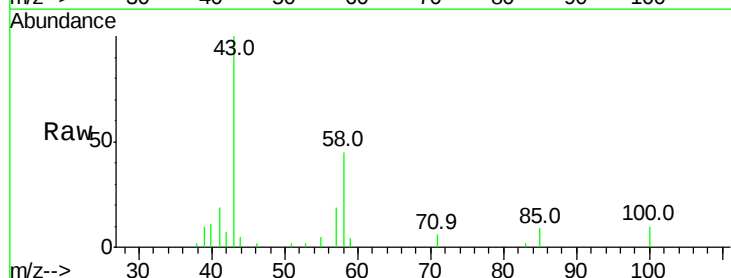
Ion Ratio Lower Upper

43 100

58 47.6 42.5 63.7

57 17.4 14.4 21.6

100 9.4 10.0 15.0#

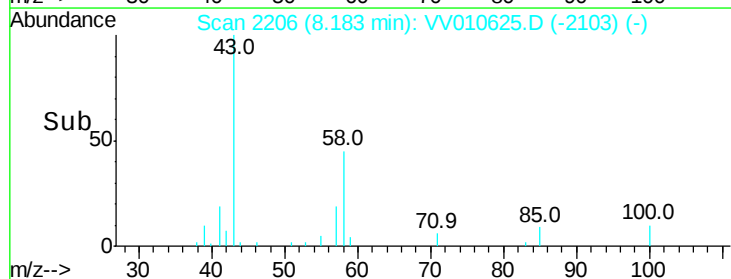
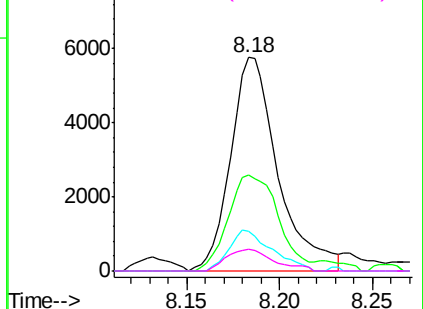


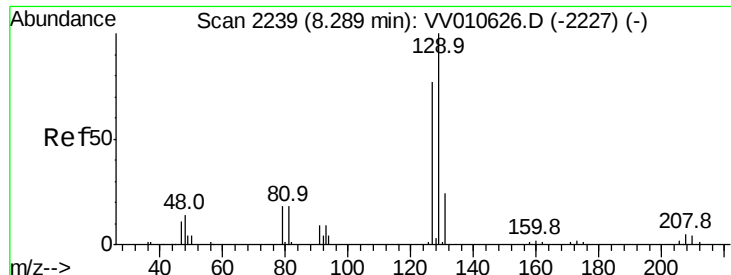
Abundance Ion 43.00 (42.70 to 43.70): VV0

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





#50

Dibromochloromethane

Concen: 4.369 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

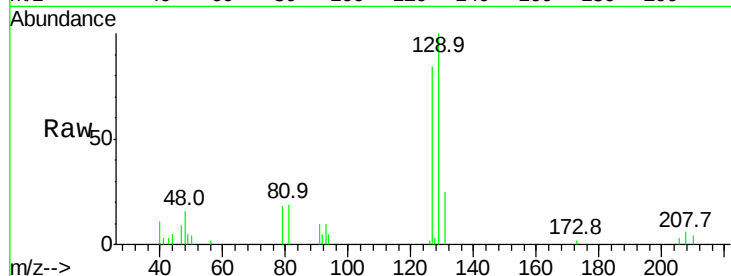
VSTD00561

Tgt Ion:129 Resp: 9390

Ion Ratio Lower Upper

129 100

127 84.0 53.9 100.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.29

6000

5000

4000

3000

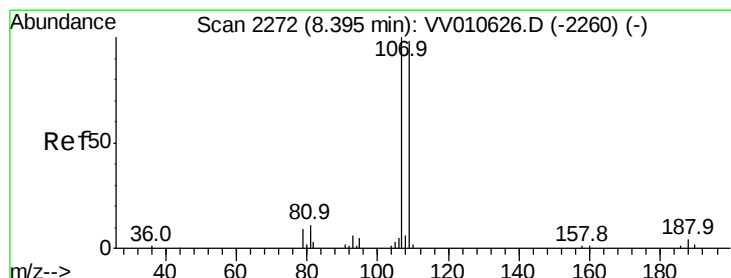
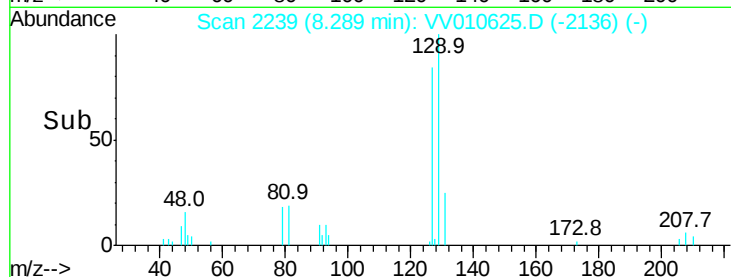
2000

1000

0

8.25 8.30 8.35

Time-->



#51

1,2-Dibromoethane

Concen: 5.205 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

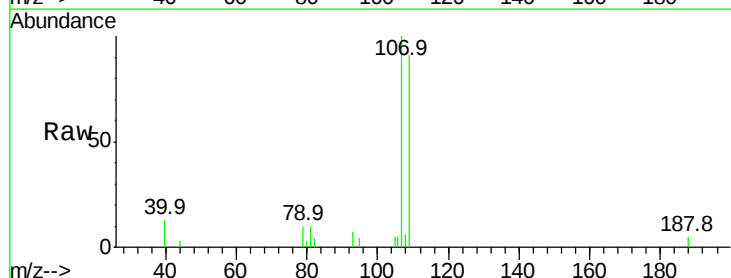
Tgt Ion:107 Resp: 8707

Ion Ratio Lower Upper

107 100

109 91.2 68.7 127.7

188 5.0 3.0 4.4#



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

8.40

6000

5000

4000

3000

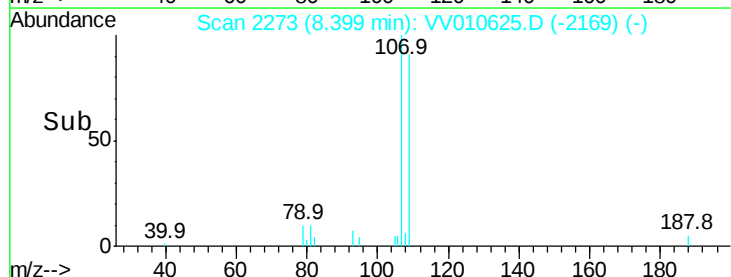
2000

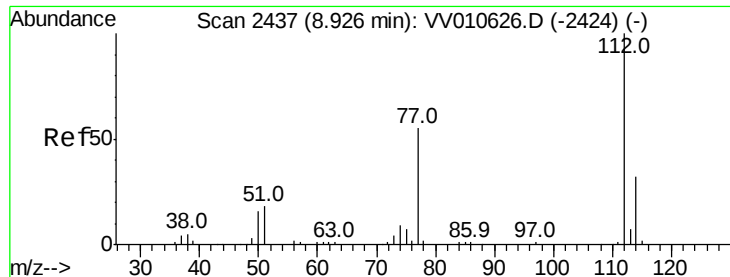
1000

0

8.35 8.40 8.45

Time-->





#52

Chlorobenzene

Concen: 5.460 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampled :

VSTD00561

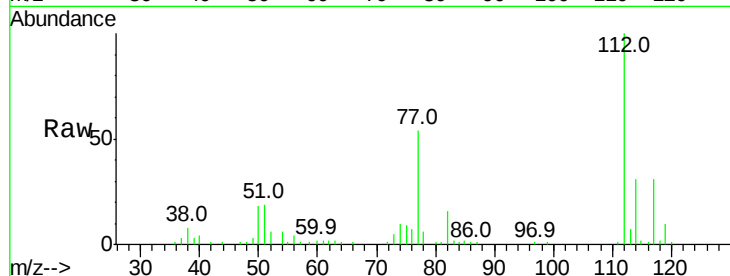
Tgt Ion: 112 Resp: 33412

Ion Ratio Lower Upper

112 100

77 53.5 44.5 66.7

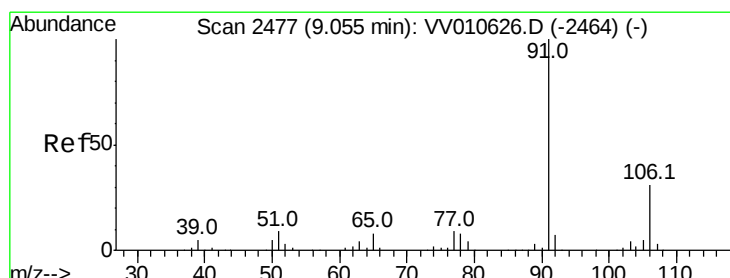
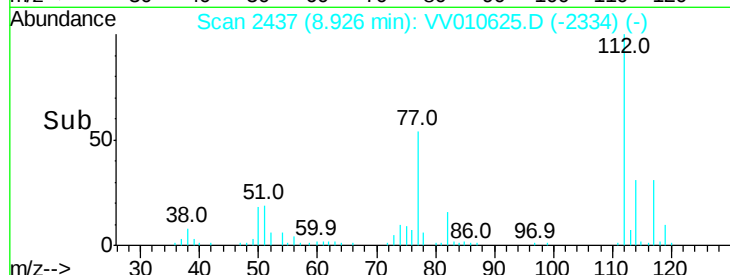
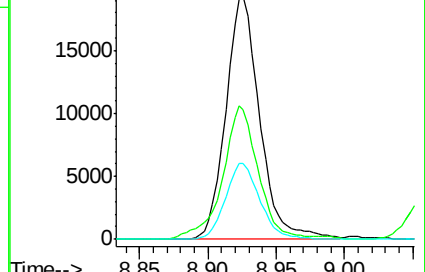
114 31.3 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 5.036 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010625.D

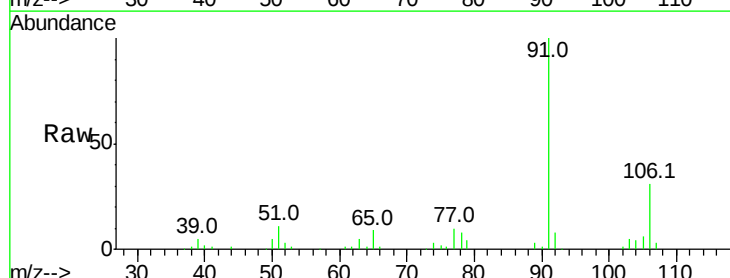
Acq: 02 May 2019 11:55

Tgt Ion: 91 Resp: 51401

Ion Ratio Lower Upper

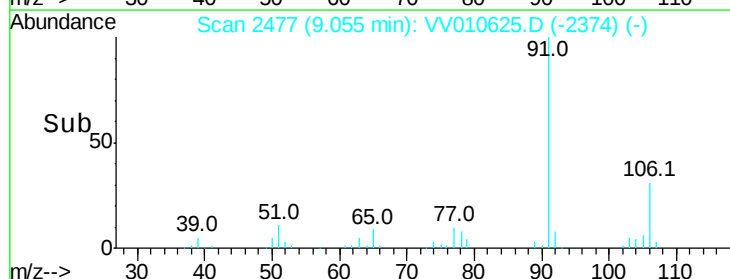
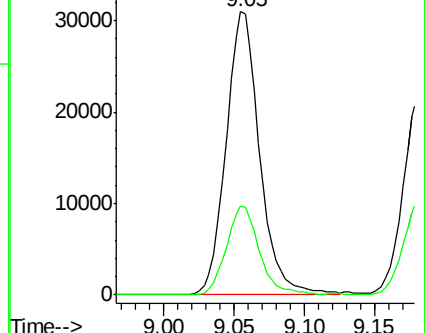
91 100

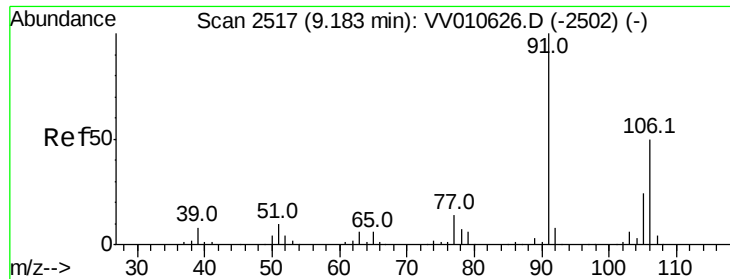
106 31.3 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 4.707 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

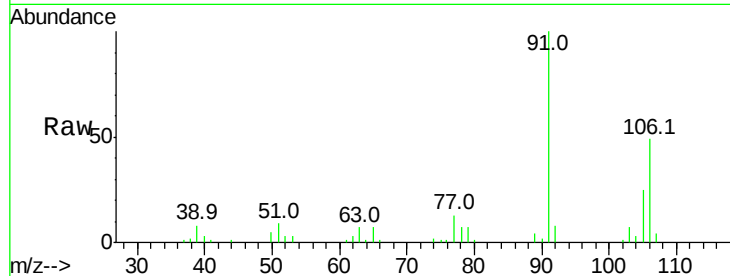
VSTD00561

Tgt Ion:106 Resp: 18832

Ion Ratio Lower Upper

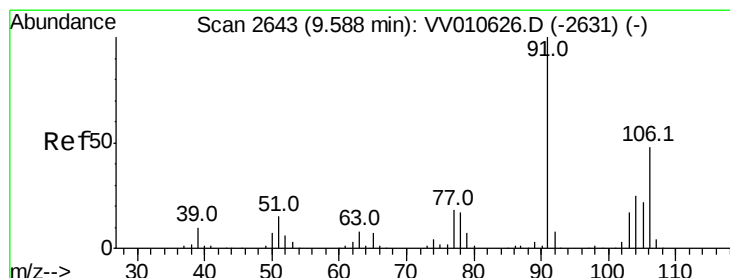
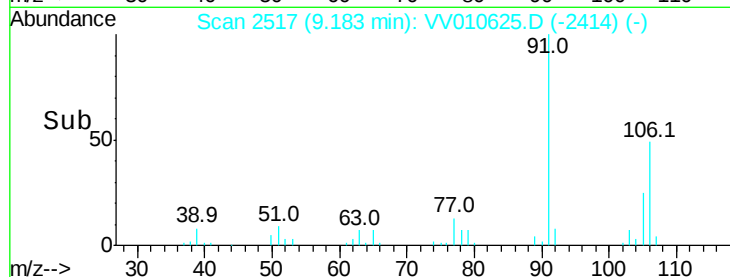
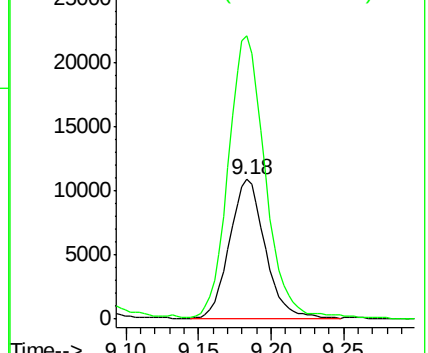
106 100

91 202.2 140.4 260.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 4.719 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV010625.D

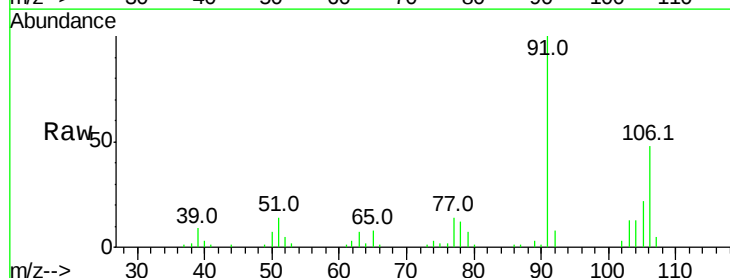
Acq: 02 May 2019 11:55

Tgt Ion:106 Resp: 18805

Ion Ratio Lower Upper

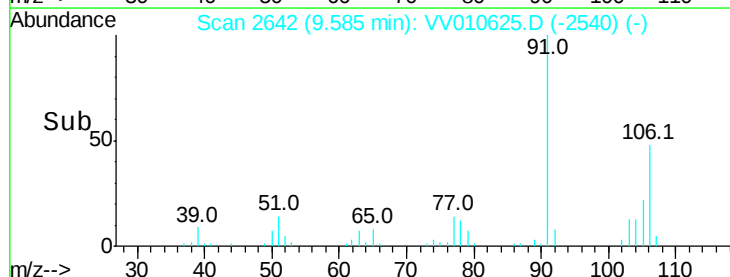
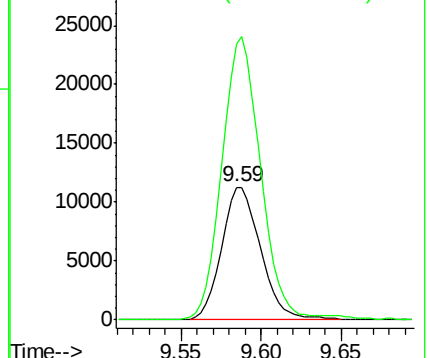
106 100

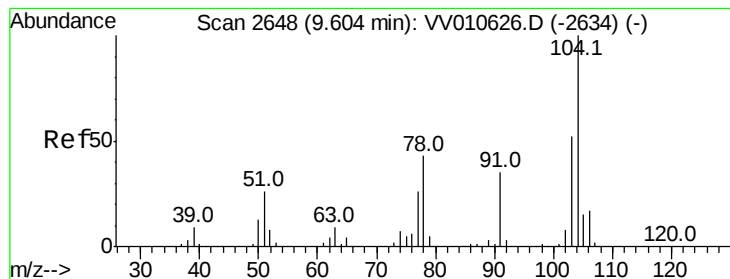
91 206.9 147.3 273.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Styrene

Concen: 4.642 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

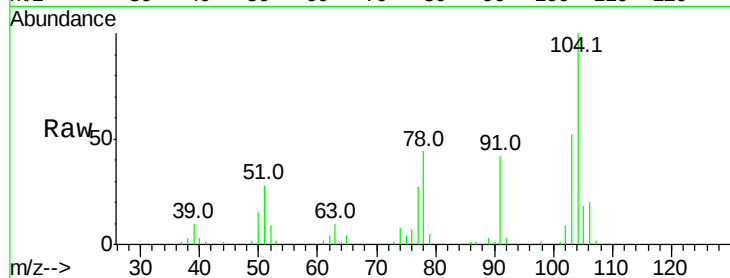
VSTD00561

Tgt Ion:104 Resp: 30525

Ion Ratio Lower Upper

104 100

78 43.6 30.4 56.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

20000

15000

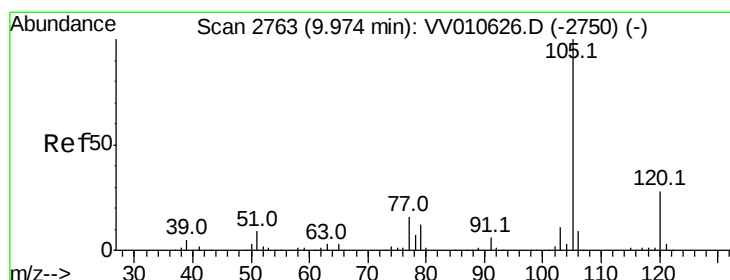
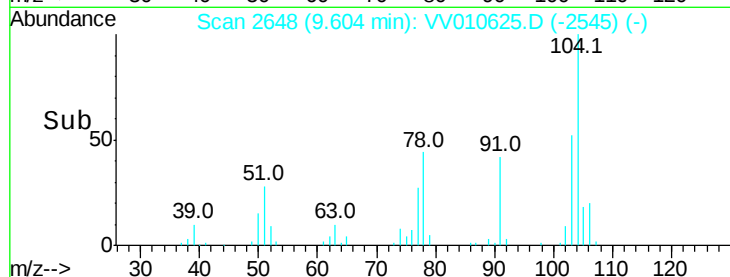
10000

5000

0

9.55 9.60 9.65 9.70

Time-->



#57

Isopropylbenzene

Concen: 4.508 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

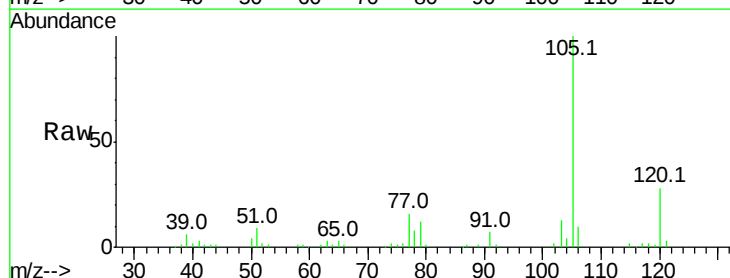
Tgt Ion:105 Resp: 48537

Ion Ratio Lower Upper

105 100

120 27.5 21.7 32.5

77 15.8 12.3 18.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0

40000

30000

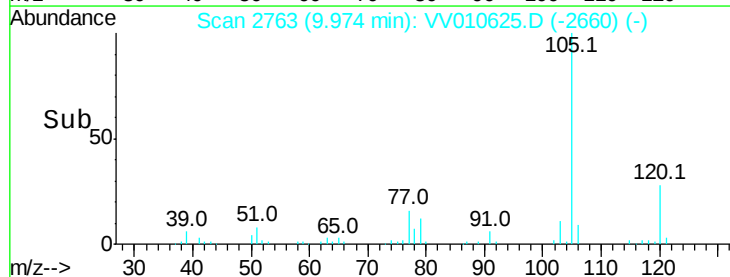
20000

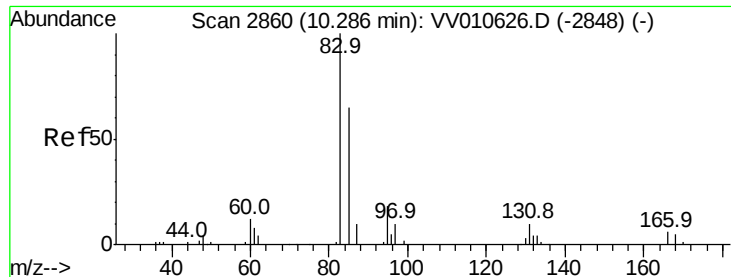
10000

0

9.90 9.95 10.00 10.05

Time-->





#58

1,1,2,2-Tetrachloroethane

Concen: 5.289 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

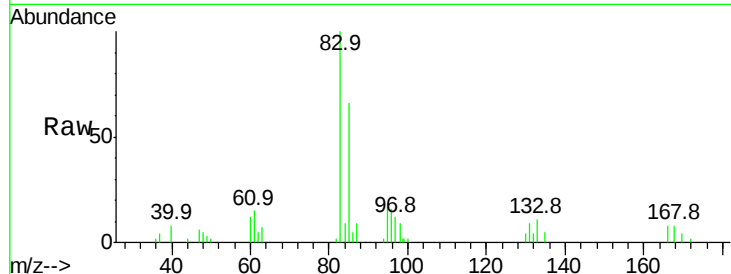
Tgt Ion: 83 Resp: 10925

Ion Ratio Lower Upper

83 100

85 66.0 46.5 86.3

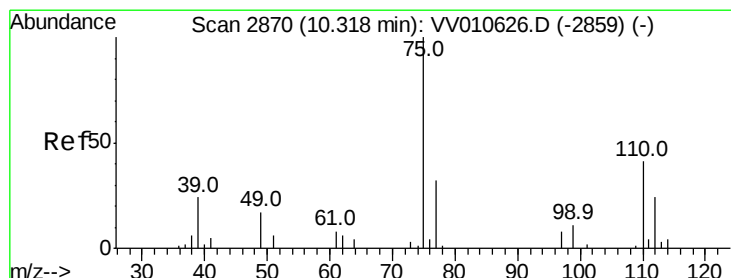
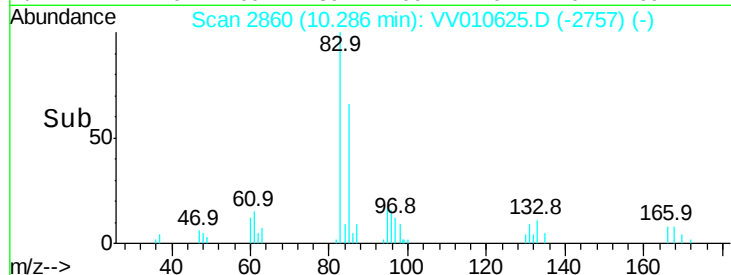
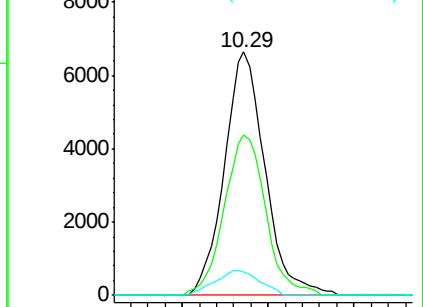
131 9.5 8.4 12.6



Abundance Ion 83.00 (82.70 to 83.70): VV010625.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV010625.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV010625.D (-2757) (-)



#59

1,2,3-Trichloropropane

Concen: 5.330 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV010625.D

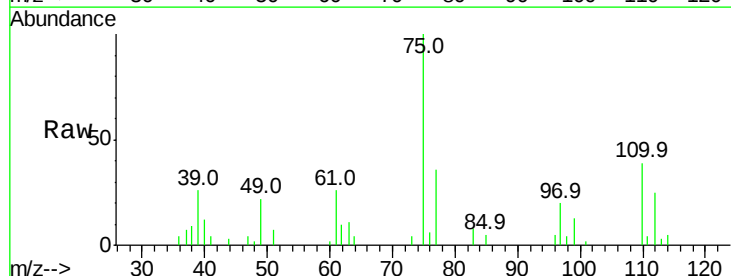
Acq: 02 May 2019 11:55

Tgt Ion: 75 Resp: 8156

Ion Ratio Lower Upper

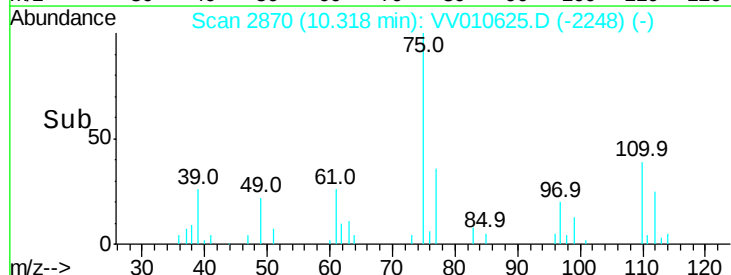
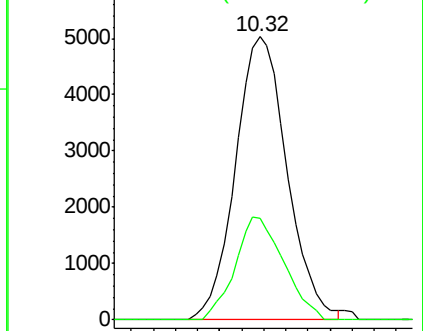
75 100

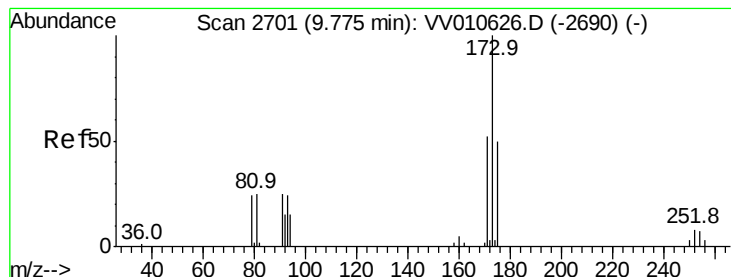
77 34.0 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VV010625.D (-2248) (-)

Ion 77.00 (76.70 to 77.70): VV010625.D (-2248) (-)





#62

Bromoform

Concen: 4.683 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

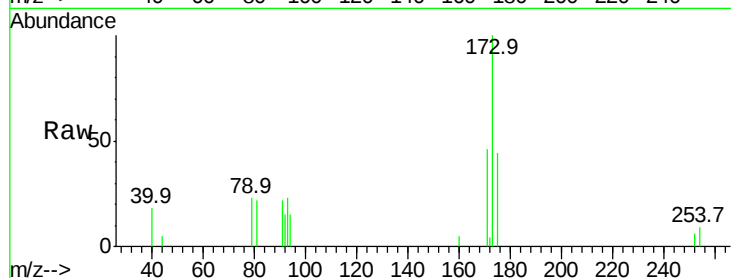
Tgt Ion:173 Resp: 5540

Ion Ratio Lower Upper

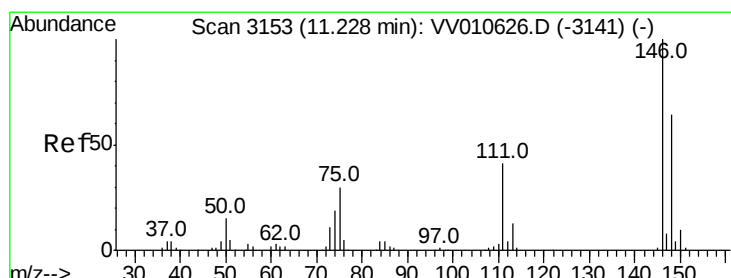
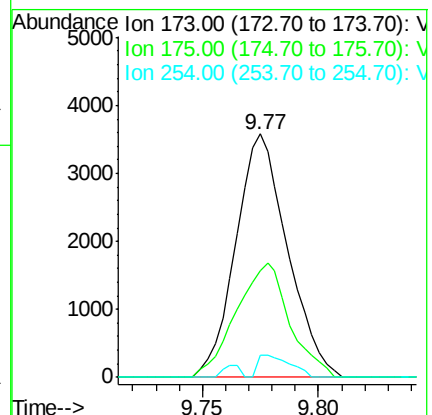
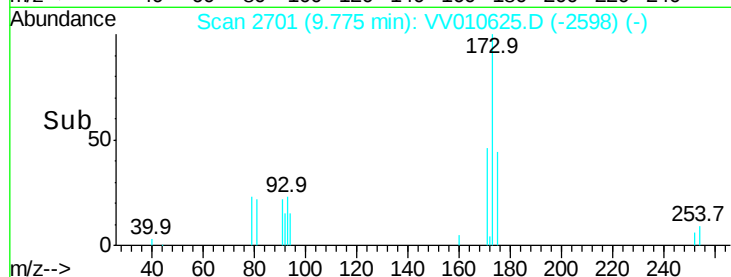
173 100

175 48.7 37.9 56.9

254 5.8 5.9 8.9#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 5.319 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

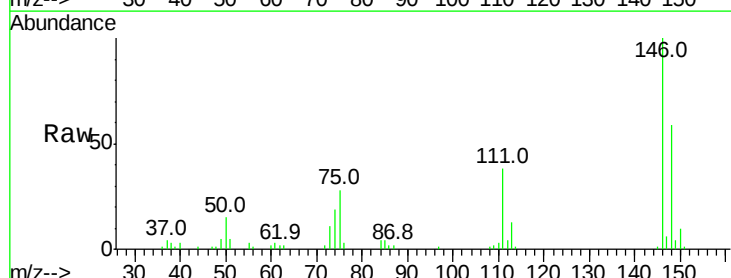
Tgt Ion:146 Resp: 24572

Ion Ratio Lower Upper

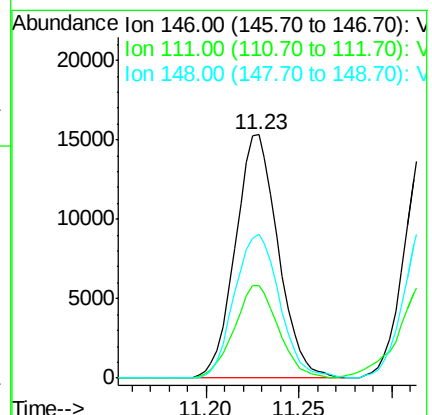
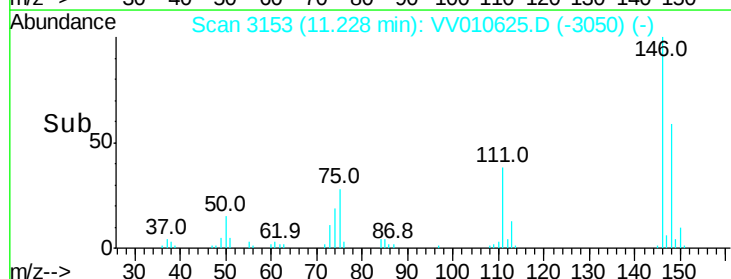
146 100

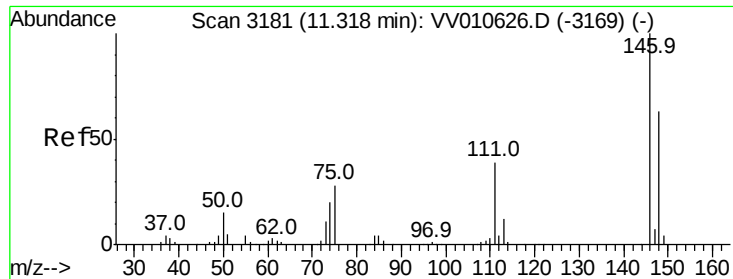
111 38.2 28.3 52.7

148 58.9 44.4 82.5



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





#64

1,4-Dichlorobenzene

Concen: 5.328 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

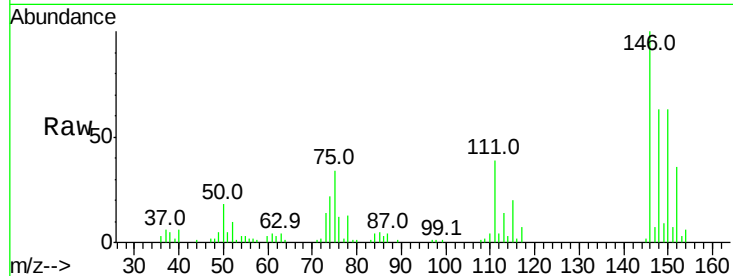
Tgt Ion:146 Resp: 25196

Ion Ratio Lower Upper

146 100

111 39.5 27.6 51.4

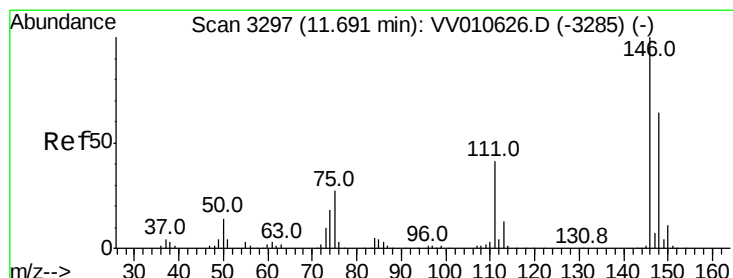
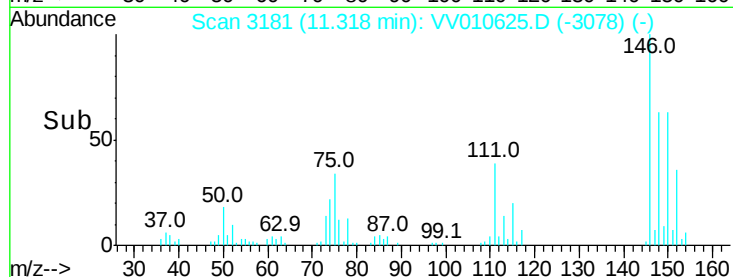
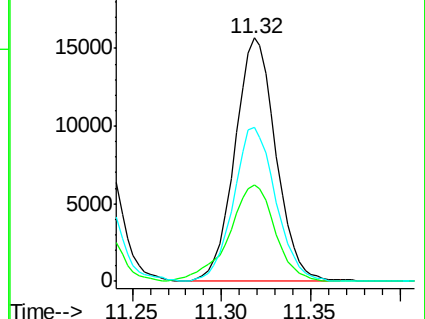
148 63.2 44.0 81.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 5.150 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

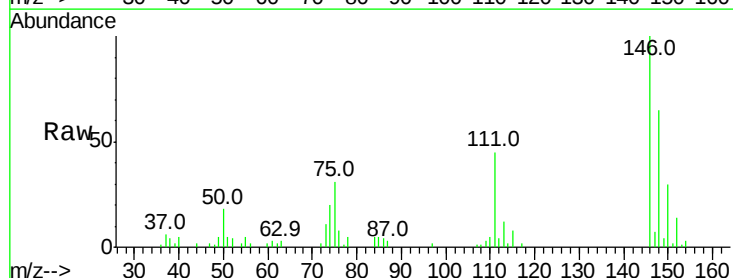
Tgt Ion:146 Resp: 23118

Ion Ratio Lower Upper

146 100

111 45.0 32.7 49.1

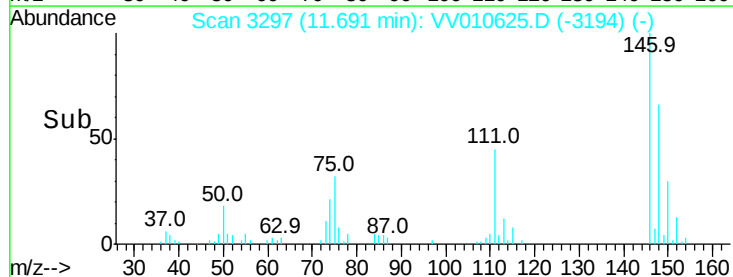
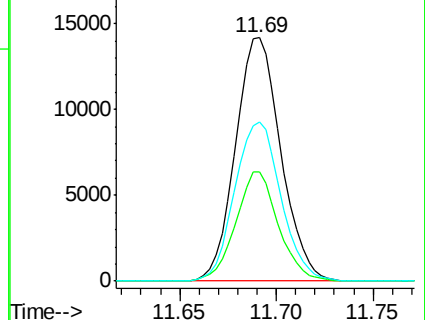
148 65.5 51.0 76.6

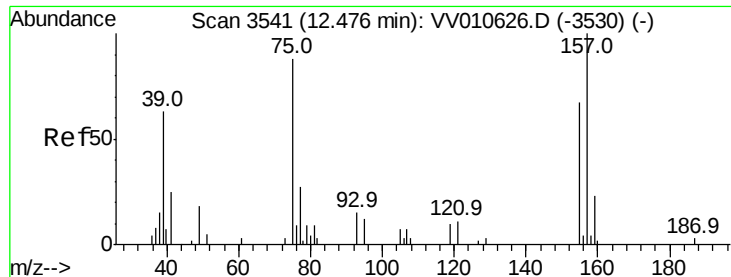


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

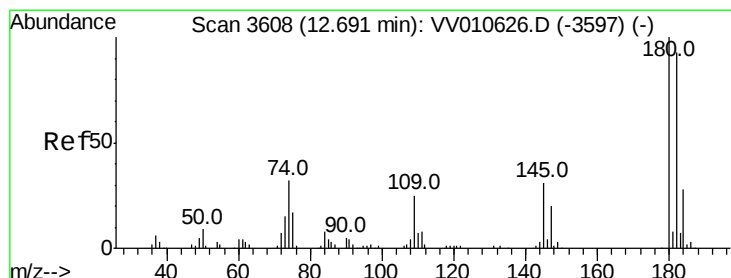
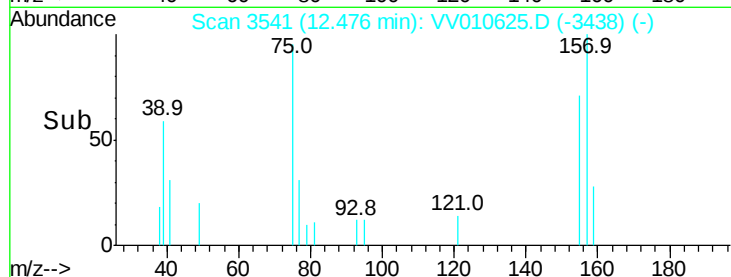
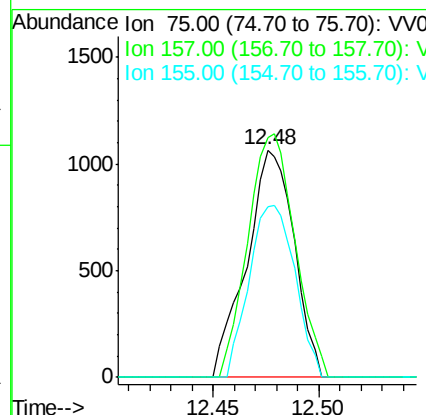
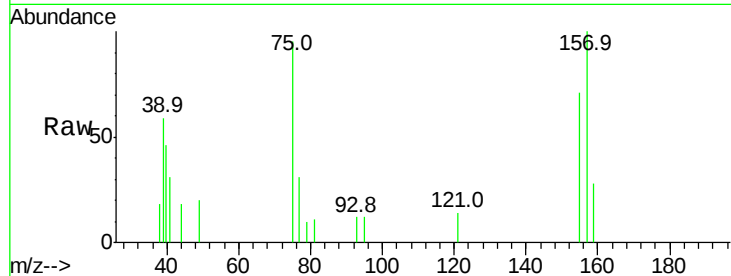




#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.583 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

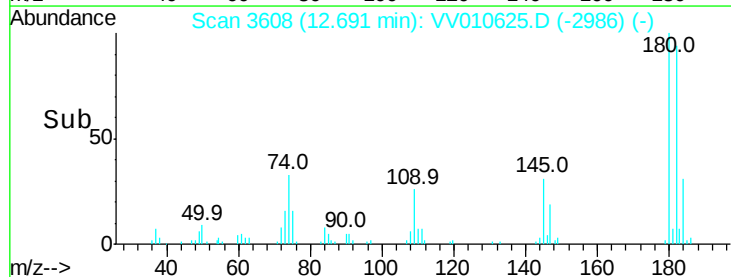
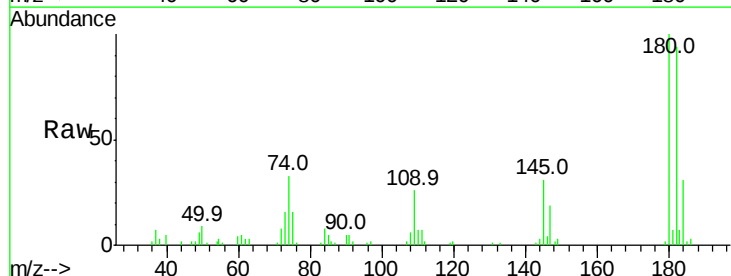
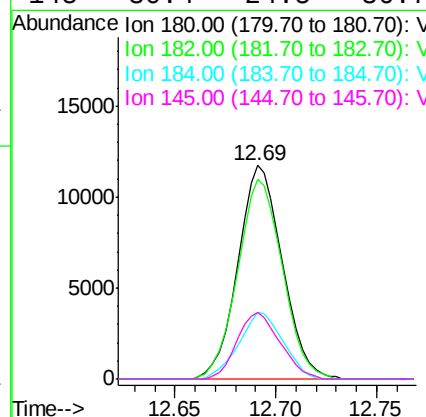
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

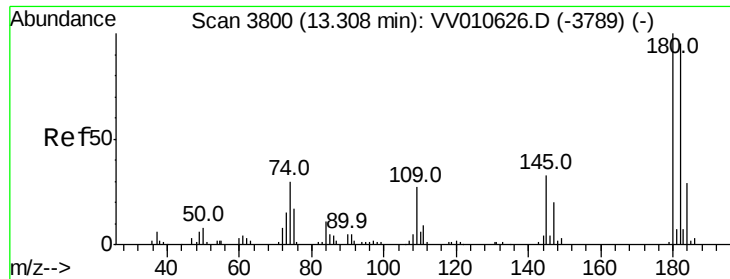
Tgt Ion: 75 Resp: 1661
 Ion Ratio Lower Upper
 75 100
 157 105.6 91.1 136.7
 155 75.2 61.0 91.6



#67
 1,3,5-Trichlorobenzene
 Concen: 4.889 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

Tgt Ion: 180 Resp: 18047
 Ion Ratio Lower Upper
 180 100
 182 94.6 75.2 112.8
 184 31.2 23.8 35.6
 145 30.4 24.5 36.7

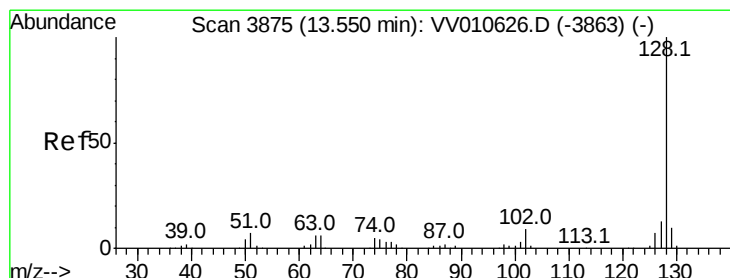
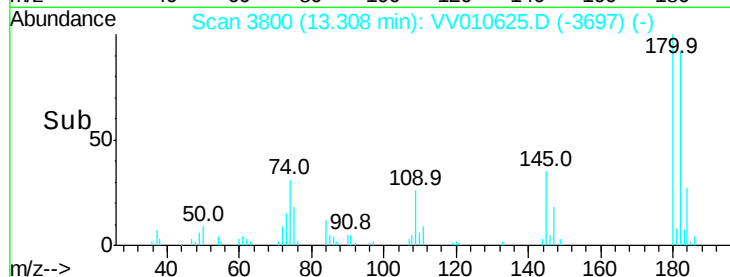
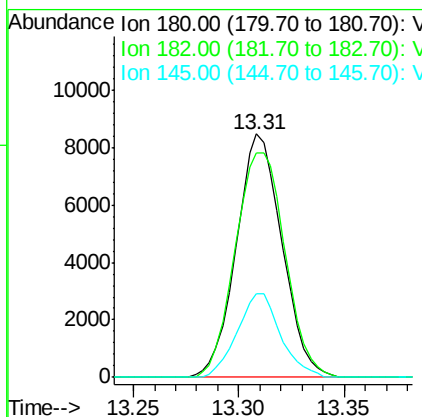
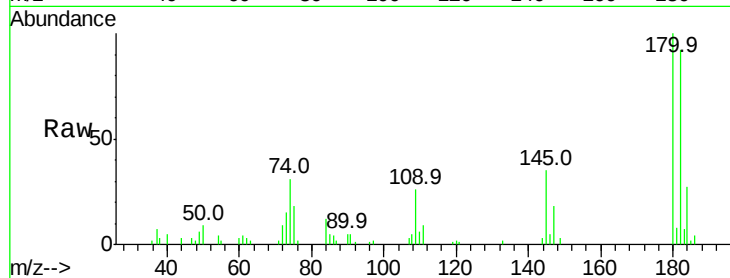




#68
 1,2,4-trichlorobenzene
 Concen: 4.582 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

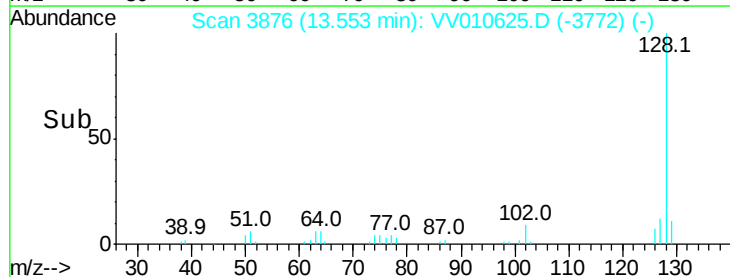
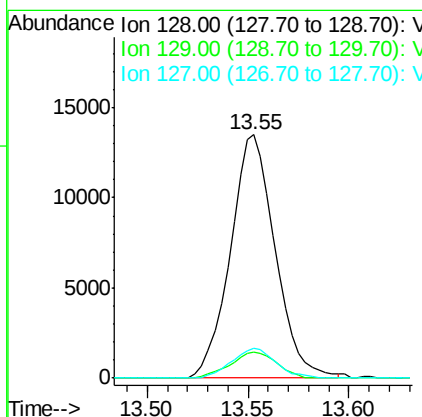
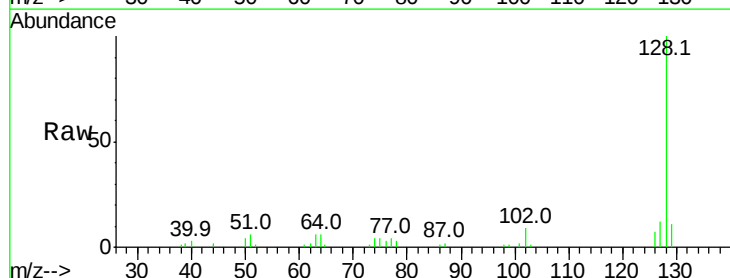
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00561

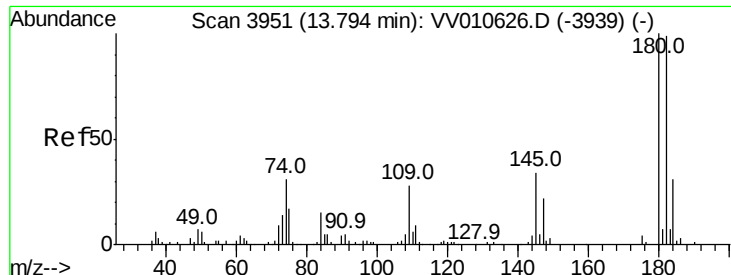
Tgt Ion:180 Resp: 12759
 Ion Ratio Lower Upper
 180 100
 182 100.7 76.1 114.1
 145 32.7 26.0 39.0



#69
 Naphthalene
 Concen: 4.679 ug/L
 RT: 13.55 min Scan# 3876
 Delta R.T. 0.00 min
 Lab File: VV010625.D
 Acq: 02 May 2019 11:55

Tgt Ion:128 Resp: 20940
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.6 13.0
 127 12.2 10.6 15.8





#70

1,2,3-Trichlorobenzene

Concen: 4.576 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV010625.D

Acq: 02 May 2019 11:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

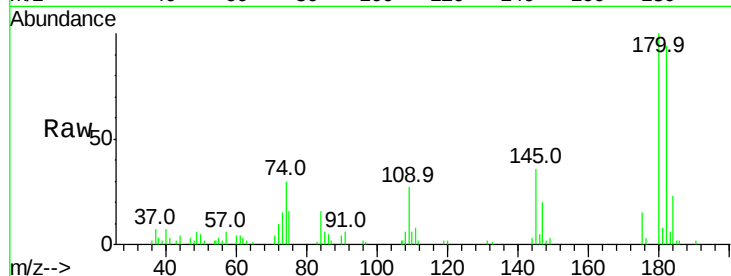
Tgt Ion:180 Resp: 11794

Ion Ratio Lower Upper

180 100

182 96.6 79.0 118.6

145 36.9 28.2 42.4



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

