

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV010419\
 Data File : VV009161.D
 Acq On : 04 Jan 2019 14:41
 Operator : SY/MD
 Sample : VSTD00568
 Misc : 5.00 G/10ML/MSVOA_V/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Quant Time: Jan 05 04:25:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	189518	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	173608	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	86263	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	8372	6.46	ug/L	0.00
7) Chloroethane-d5	1.58	69	7719	6.14	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	25523	5.89	ug/L	0.00
20) 2-Butanone-d5	4.12	46	190	0.21	ug/L	0.15
24) Chloroform-d	4.40	84	23027	5.77	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	12234	5.73	ug/L	0.00
29) Benzene-d6	5.10	84	44917	5.81	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	13248	5.97	ug/L	0.00
37) Toluene-d8	7.36	98	42257	5.79	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	6017	5.72	ug/L	0.00
39) 2-Hexanone-d5	8.15	63	5211	9.96	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	13153	5.40	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	17633	6.05	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	16726	5.490 ug/L	100
3) Chloromethane	1.25	50	11600	5.622 ug/L	99
5) Vinyl chloride	1.32	62	12167	5.507 ug/L	96
6) Bromomethane	1.53	94	8482	5.451 ug/L	99
8) Chloroethane	1.60	64	7549	5.545 ug/L	100
9) Trichlorofluoromethane	1.76	101	21252	5.247 ug/L	96
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	14099	5.227 ug/L	99
12) 1,1-Dichloroethene	2.13	96	12475	5.333 ug/L	87
13) Acetone	2.22	43	13440	10.399 ug/L	91
14) Carbon disulfide	2.31	76	35590	5.324 ug/L	100
15) Methyl Acetate	2.47	43	8117	5.076 ug/L #	84
16) Methylene chloride	2.53	84	15358	5.424 ug/L	95
17) Methyl tert-butyl Ether	2.80	73	28313	4.941 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	13279	5.356 ug/L	96
19) 1,1-Dichloroethane	3.23	63	21270	5.166 ug/L	95
21) 2-Butanone	4.05	43	10401	8.750 ug/L #	95
22) cis-1,2-Dichloroethene	3.96	96	13940	5.260 ug/L	98
23) Bromochloromethane	4.30	128	6183	4.959 ug/L	92
25) Chloroform	4.42	83	22484	5.128 ug/L	99
27) 1,2-Dichloroethane	5.18	62	15363	5.217 ug/L	99
30) Cyclohexane	4.72	56	20348	5.287 ug/L	95
31) 1,1,1-Trichloroethane	4.65	97	21385	5.067 ug/L	99
32) Carbon tetrachloride	4.87	117	19784	5.121 ug/L	97
34) Benzene	5.14	78	47465	5.086 ug/L	100
35) Trichloroethene	5.96	95	13787	5.128 ug/L	98
36) Methylcyclohexane	6.17	83	23787	5.295 ug/L	98
40) 1,2-Dichloropropane	6.22	63	11128	4.947 ug/L	98
41) Bromodichloromethane	6.55	83	14938	4.845 ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	16697	4.684 ug/L	100
43) 4-Methyl-2-pentanone	7.29	43	21009	9.798 ug/L	96

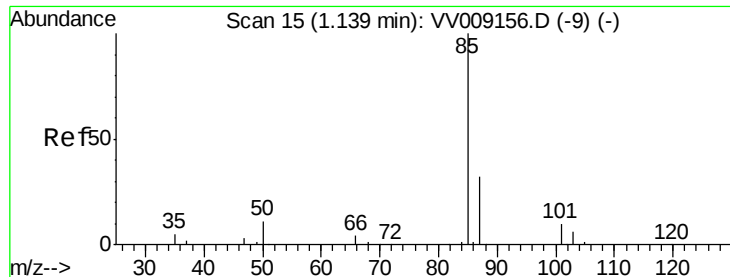
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV010419\
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 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	50738	5.042	ug/L	96
45) trans-1,3-Dichloropropene	7.69	75	14441	4.627	ug/L	95
46) 1,1,2-Trichloroethane	7.88	97	10087	5.073	ug/L	96
47) Tetrachloroethene	8.02	164	12053	5.174	ug/L	98
49) 2-Hexanone	8.20	43	14535	9.211	ug/L	97
50) Dibromochloromethane	8.29	129	11465	4.694	ug/L	94
51) 1,2-Dibromoethane	8.40	107	10143	4.879	ug/L	95
52) Chlorobenzene	8.93	112	35044	5.076	ug/L	99
53) Ethylbenzene	9.05	91	57121	5.020	ug/L	100
54) m,p-Xylene	9.18	106	21948	4.951	ug/L	93
55) o-xylene	9.59	106	19936	4.863	ug/L	98
56) Styrene	9.60	104	33340	4.822	ug/L	98
57) Isopropylbenzene	9.98	105	55977	4.922	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	12420	4.662	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	10492	4.928	ug/L	96
62) Bromoform	9.78	173	7198	4.725	ug/L	94
63) 1,3-Dichlorobenzene	11.23	146	28375	5.221	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	29545	5.215	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	26950	5.205	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	2420	4.502	ug/L #	79
67) 1,3,5-Trichlorobenzene	12.69	180	22196	5.064	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	17596	4.932	ug/L	98
69) Naphthalene	13.55	128	31405	4.321	ug/L	98
70) 1,2,3-Trichlorobenzene	13.80	180	15839	4.837	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.490 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

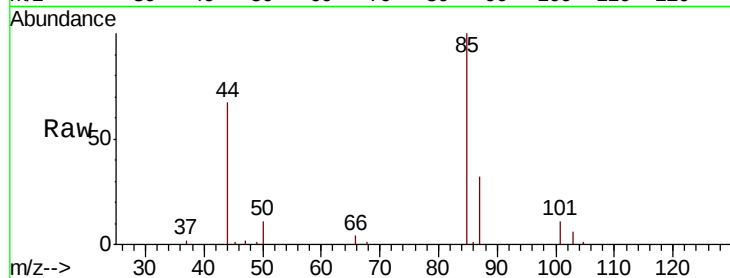
VSTD00568

Tgt Ion: 85 Resp: 16726

Ion Ratio Lower Upper

85 100

87 32.0 22.5 41.7



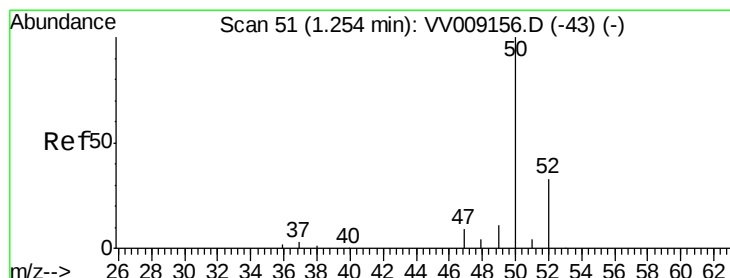
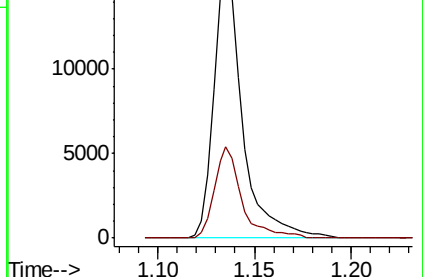
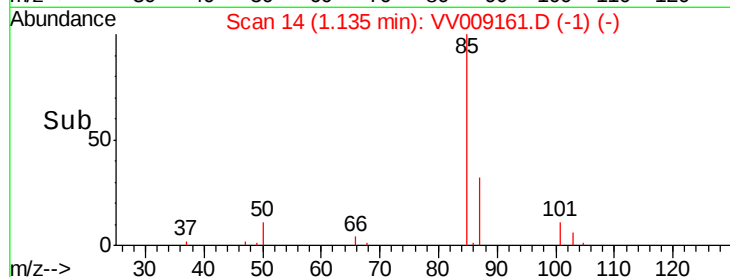
Abundance Ion 85.00 (84.70 to 85.70): VV009161.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV009161.D (-1) (-)

1.14

1.15

1.20



#3

Chloromethane

Concen: 5.622 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.01 min

Lab File: VV009161.D

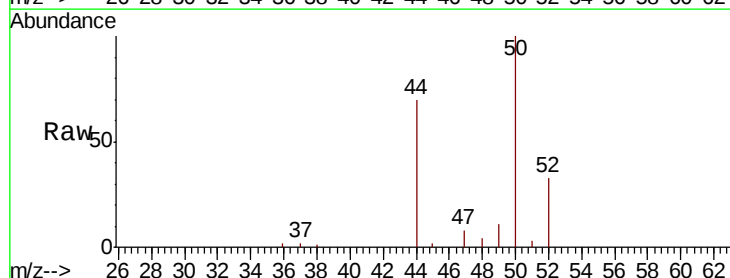
Acq: 04 Jan 2019 14:41

Tgt Ion: 50 Resp: 11600

Ion Ratio Lower Upper

50 100

52 33.3 23.0 42.8

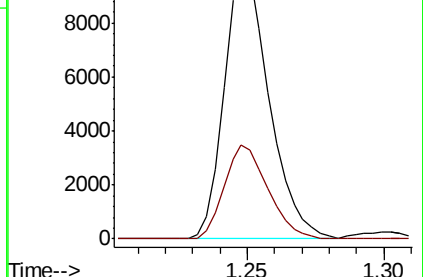
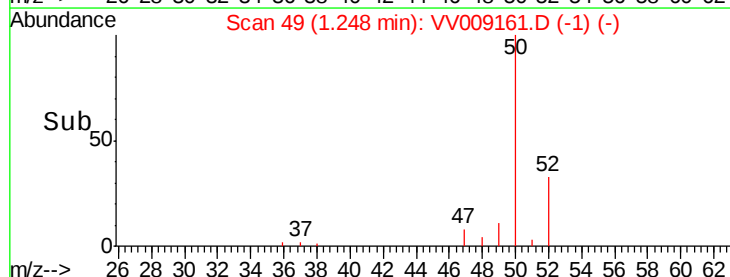


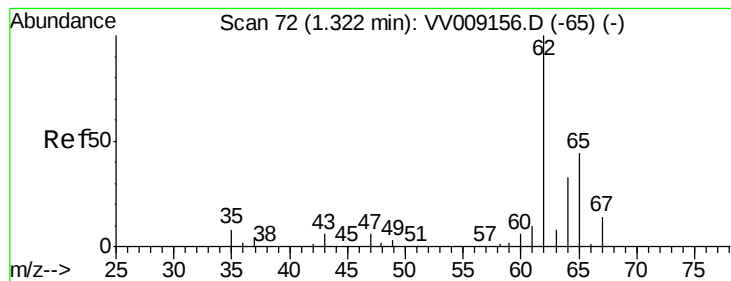
Abundance Ion 50.00 (49.70 to 50.70): VV009161.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV009161.D (-1) (-)

1.25

1.30





#5

Vinyl chloride

Concen: 5.507 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

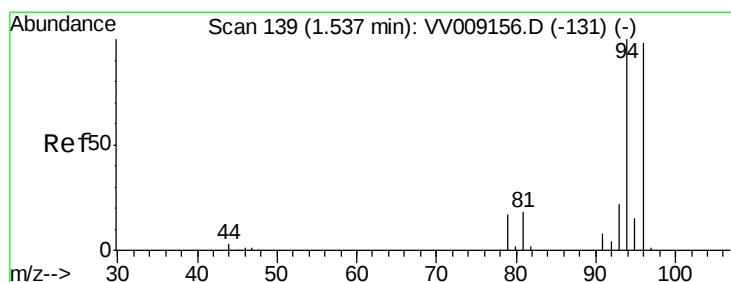
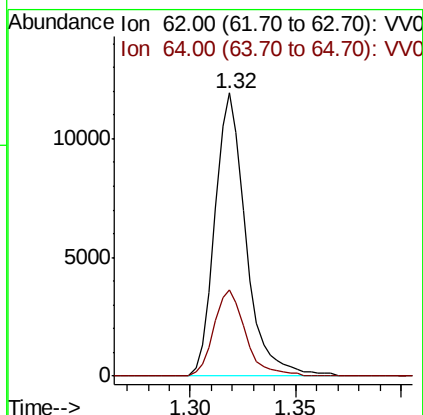
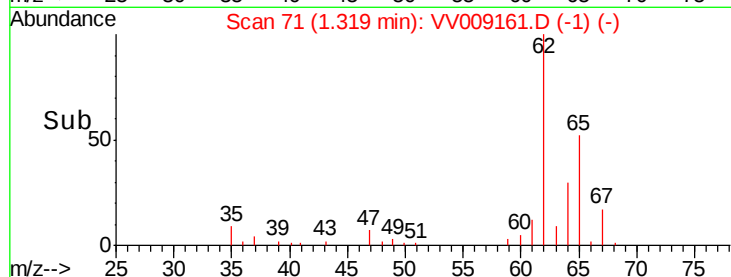
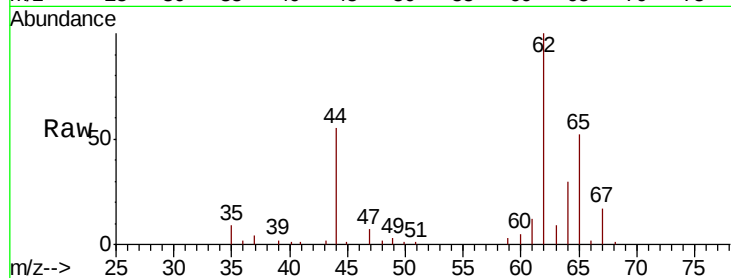
VSTD00568

Tgt Ion: 62 Resp: 12167

Ion Ratio Lower Upper

62 100

64 30.4 23.0 42.6



#6

Bromomethane

Concen: 5.451 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV009161.D

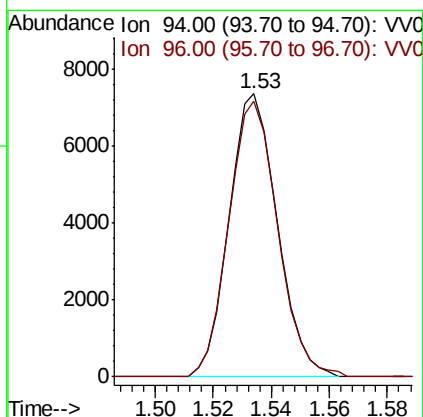
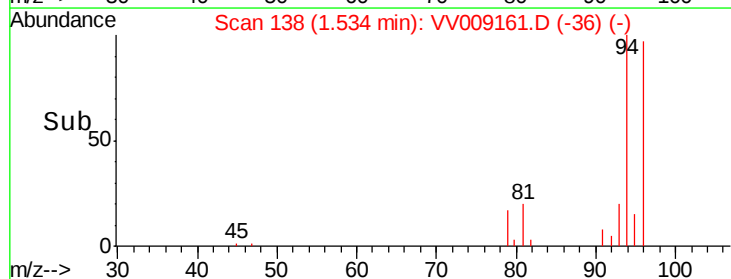
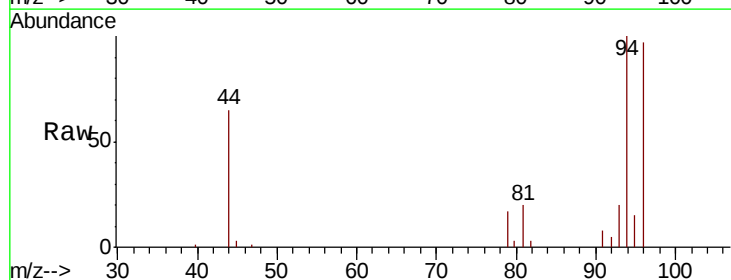
Acq: 04 Jan 2019 14:41

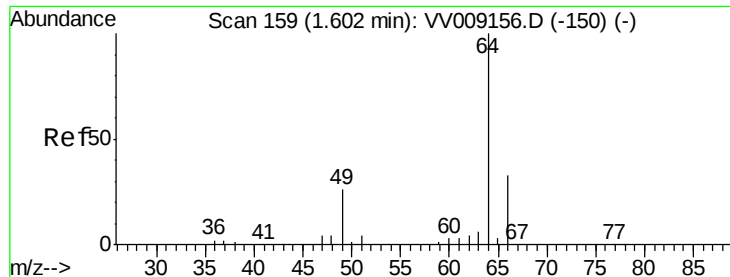
Tgt Ion: 94 Resp: 8482

Ion Ratio Lower Upper

94 100

96 98.6 9.7 185.1





#8

Chloroethane

Concen: 5.545 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

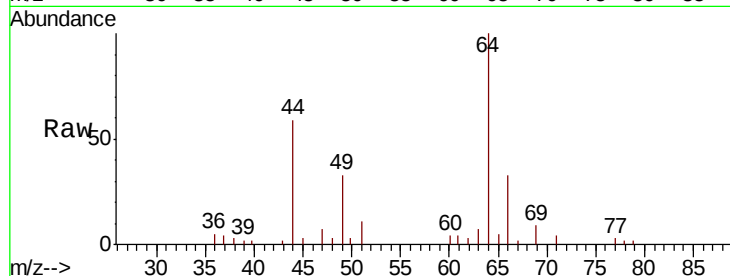
VSTD00568

Tgt Ion: 64 Resp: 7549

Ion Ratio Lower Upper

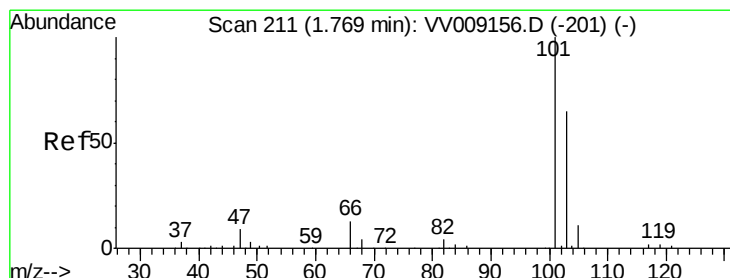
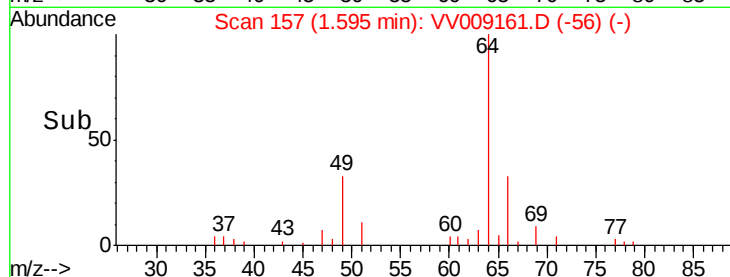
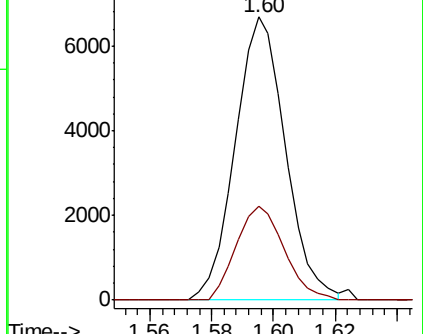
64 100

66 33.0 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VV009156.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV009156.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 5.247 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.01 min

Lab File: VV009161.D

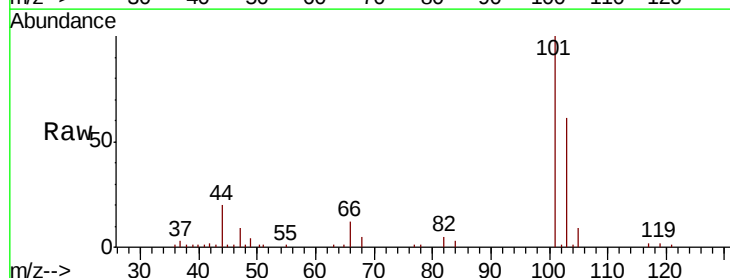
Acq: 04 Jan 2019 14:41

Tgt Ion: 101 Resp: 21252

Ion Ratio Lower Upper

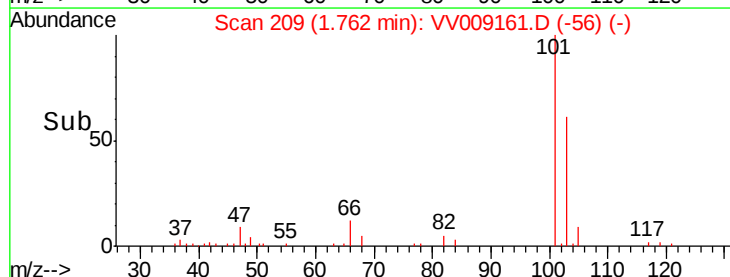
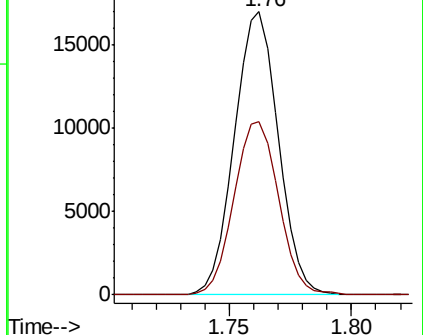
101 100

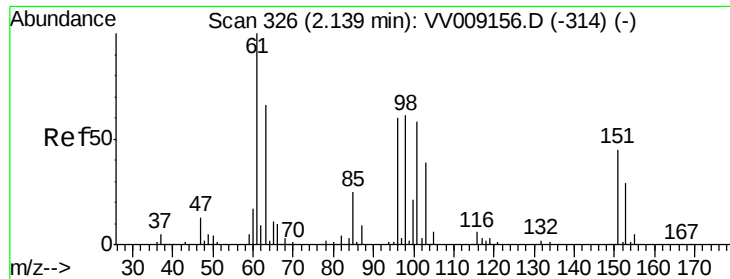
103 62.2 46.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): VV009156.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV009156.D (-201) (-)





#11

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

Concen: 5.227 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

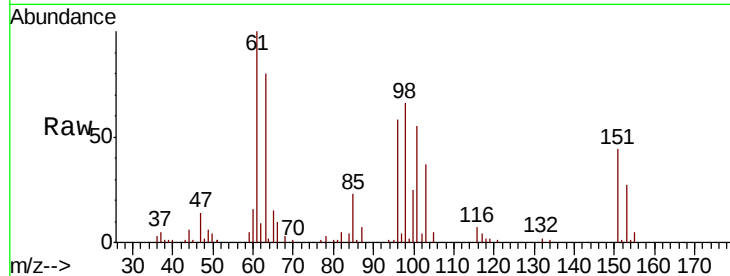
Tgt Ion:101 Resp: 14099

Ion Ratio Lower Upper

101 100

85 42.4 34.6 52.0

151 79.4 62.6 94.0



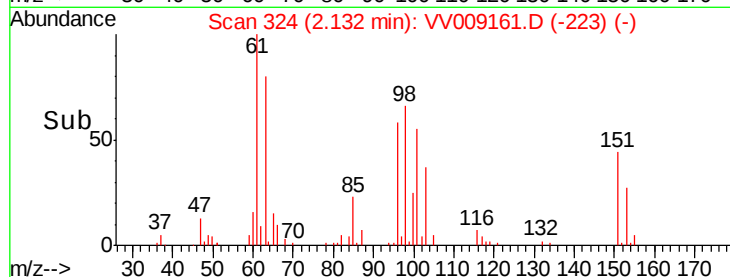
Abundance Ion 101.00 (100.70 to 101.70): VV009156.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV009156.D (-314) (-)

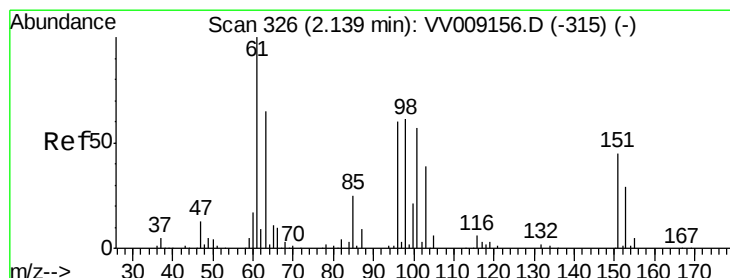
Ion 151.00 (150.70 to 151.70): VV009156.D (-314) (-)

2.13

Time-->



Time-->



#12

1,1-Dichloroethene

Concen: 5.333 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

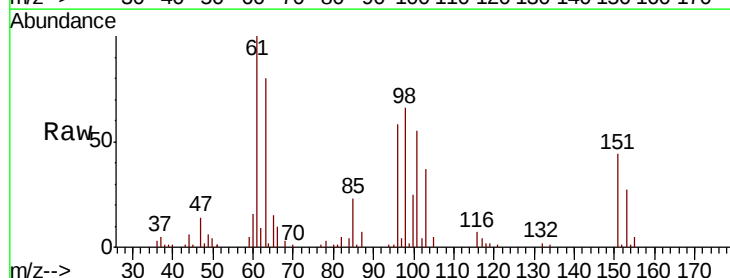
Tgt Ion: 96 Resp: 12475

Ion Ratio Lower Upper

96 100

61 173.4 117.0 217.4

63 138.5 78.2 145.2



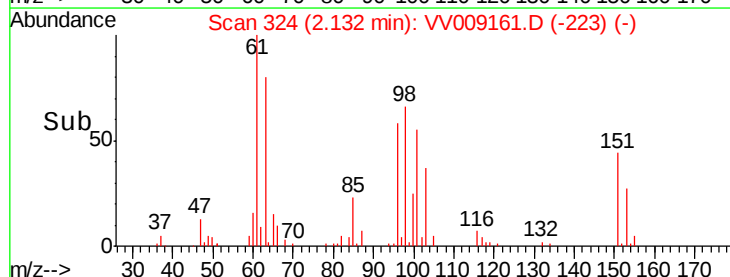
Abundance Ion 96.00 (95.70 to 96.70): VV009156.D (-315) (-)

Ion 61.00 (60.70 to 61.70): VV009156.D (-315) (-)

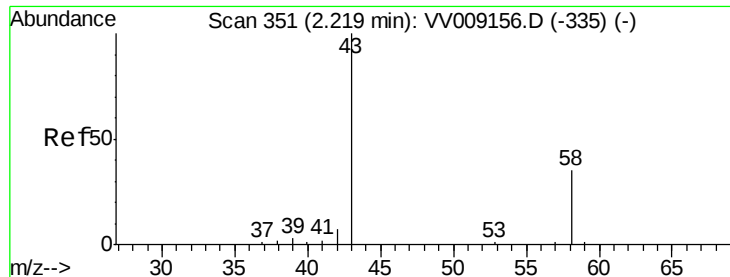
Ion 63.00 (62.70 to 63.70): VV009156.D (-315) (-)

2.13

Time-->



Time-->



#13

Acetone

Concen: 10.399 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

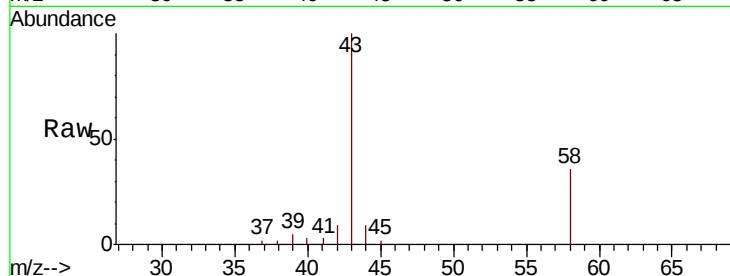
VSTD00568

Tgt Ion: 43 Resp: 13440

Ion Ratio Lower Upper

43 100

58 38.4 0.0 67.0



Abundance Ion 43.00 (42.70 to 43.70): VV009156.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VV009156.D (-335) (-)

2.22

6000

5000

4000

3000

2000

1000

0

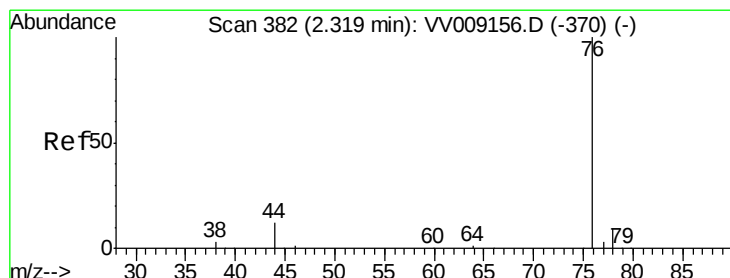
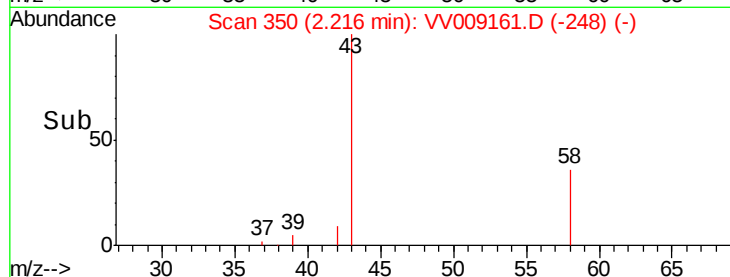
2.15

2.20

2.25

2.30

Time-->



#14

Carbon disulfide

Concen: 5.324 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VV009161.D

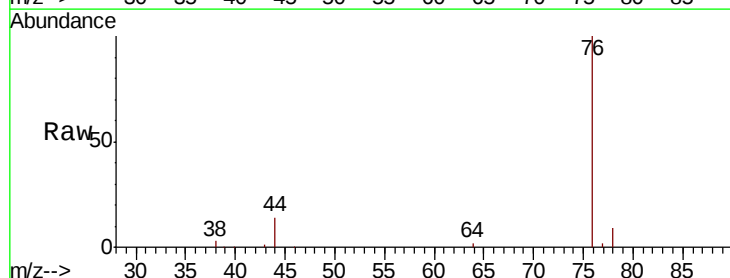
Acq: 04 Jan 2019 14:41

Tgt Ion: 76 Resp: 35590

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009156.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV009156.D (-370) (-)

2.31

25000

20000

15000

10000

5000

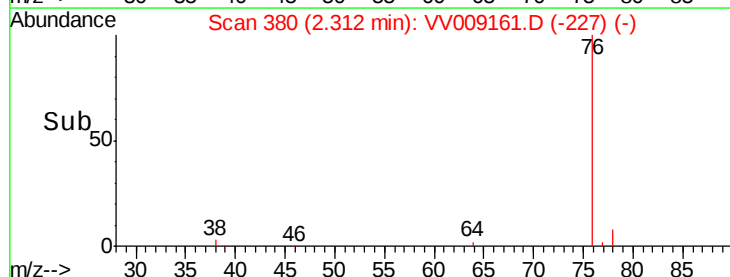
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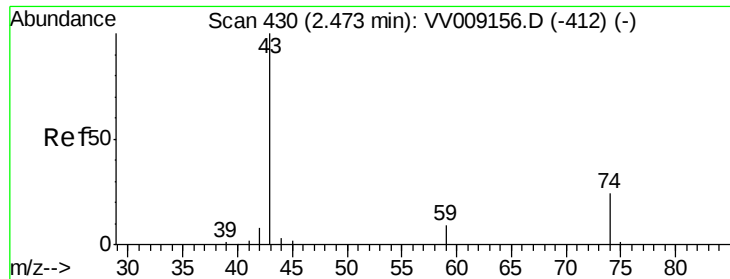
2.25

2.30

2.35

Time-->

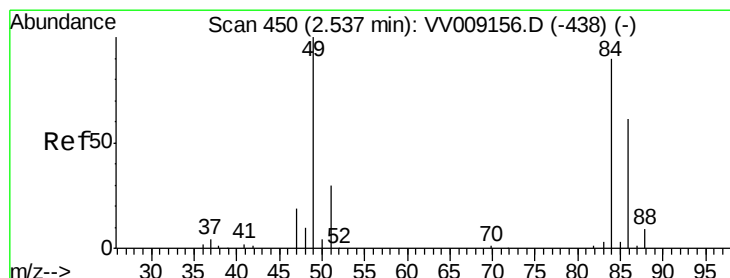
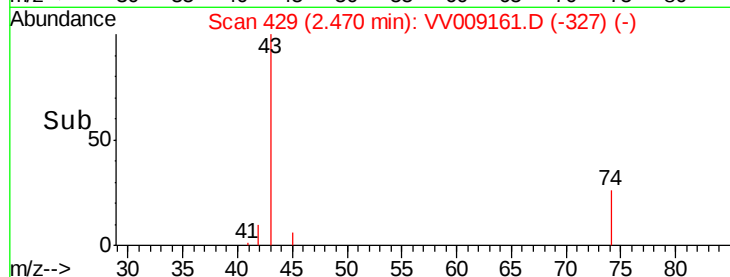
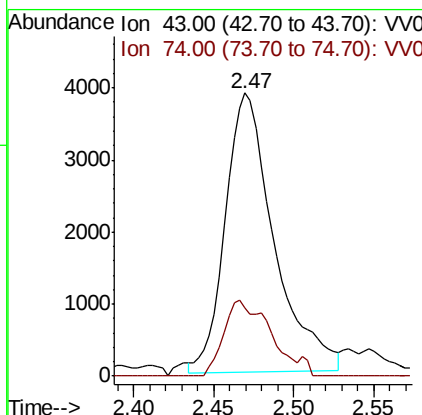
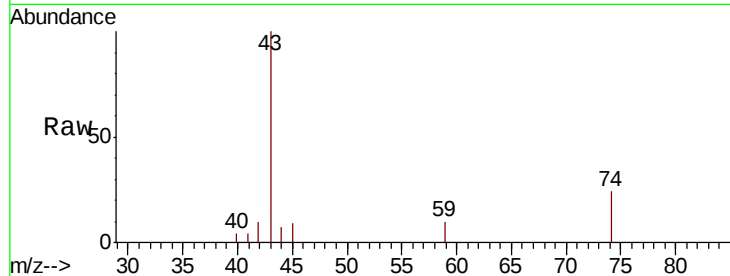




#15
Methyl Acetate
Concen: 5.076 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

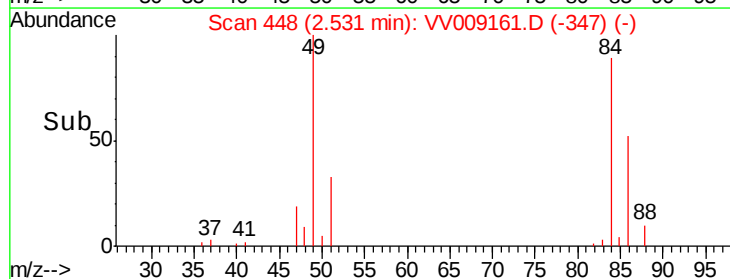
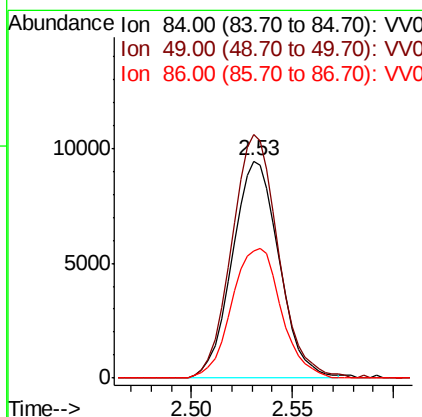
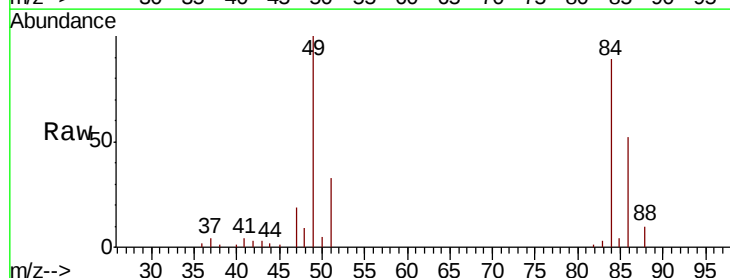
Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

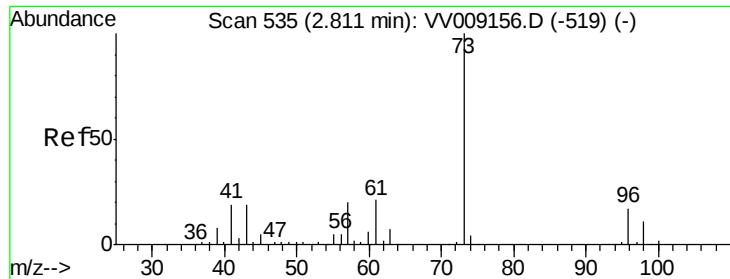
Tgt Ion: 43 Resp: 8117
Ion Ratio Lower Upper
43 100
74 16.5 19.4 29.0#



#16
Methylene chloride
Concen: 5.424 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 84 Resp: 15358
Ion Ratio Lower Upper
84 100
49 112.2 77.6 144.2
86 58.7 47.4 88.0

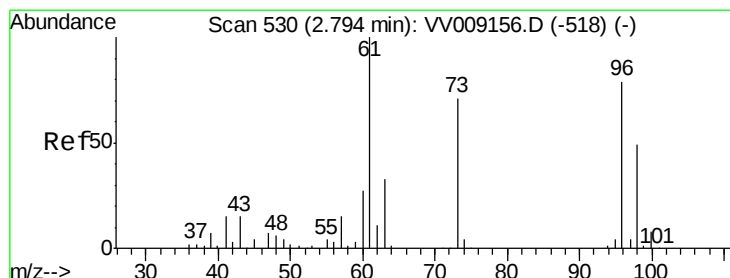
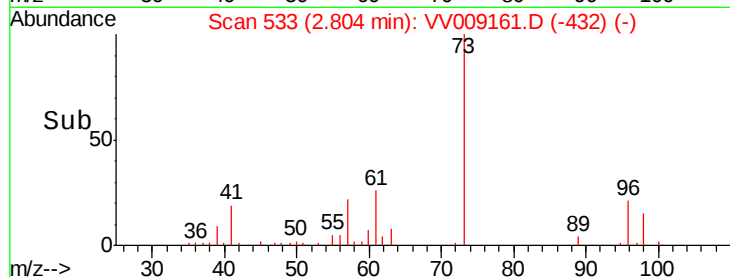
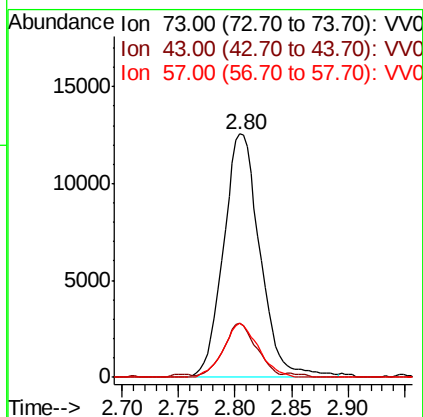
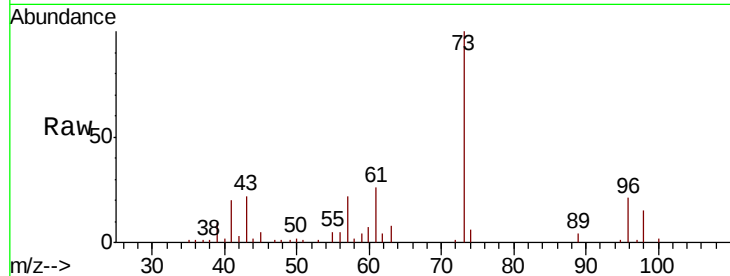




#17
Methyl tert-butyl Ether
Concen: 4.941 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

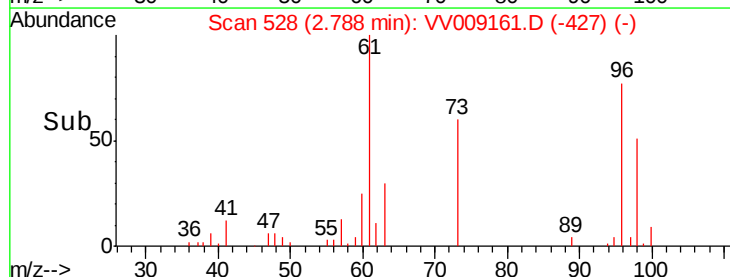
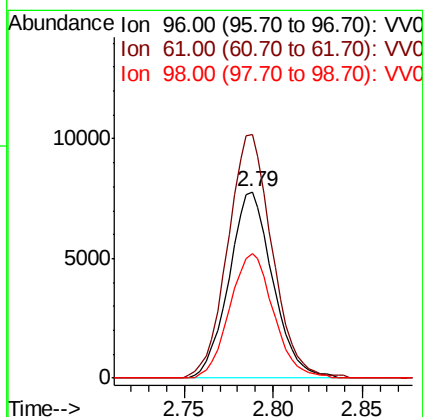
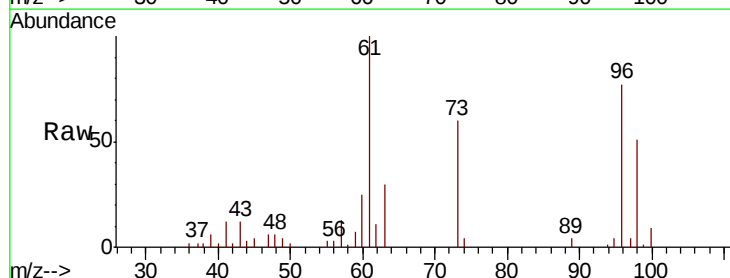
Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

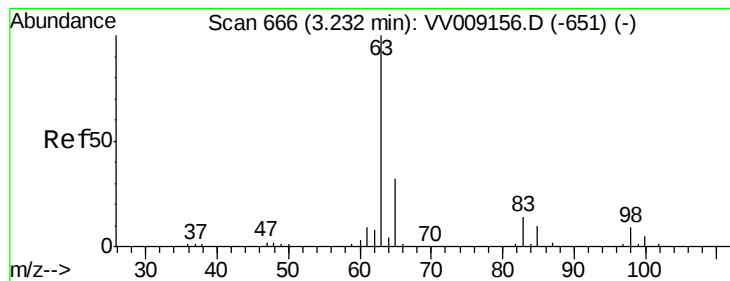
Tgt Ion: 73 Resp: 28313
Ion Ratio Lower Upper
73 100
43 19.1 15.4 23.2
57 21.1 16.2 24.2



#18
trans-1,2-Dichloroethene
Concen: 5.356 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 96 Resp: 13279
Ion Ratio Lower Upper
96 100
61 130.7 88.8 164.8
98 67.0 43.5 80.9





#19

1,1-Dichloroethane

Concen: 5.166 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

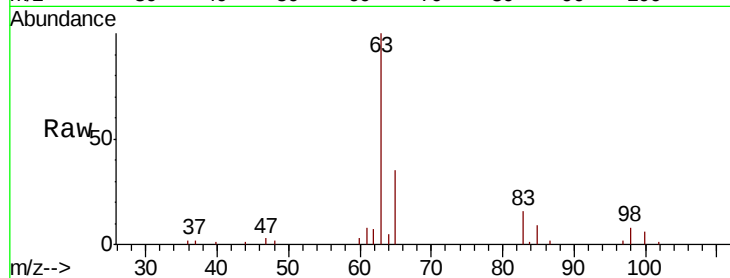
Tgt Ion: 63 Resp: 21270

Ion Ratio Lower Upper

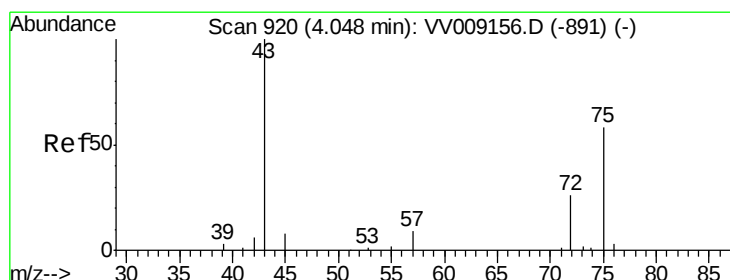
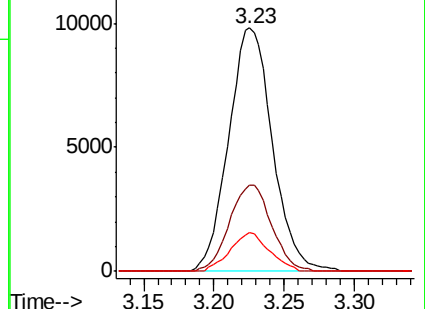
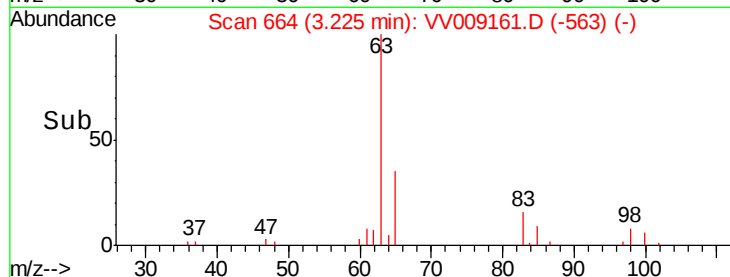
63 100

65 35.2 22.6 42.0

83 16.1 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VV009161.D (-653) (-)



#21

2-Butanone

Concen: 8.750 ug/L

RT: 4.05 min Scan# 921

Delta R.T. 0.00 min

Lab File: VV009161.D

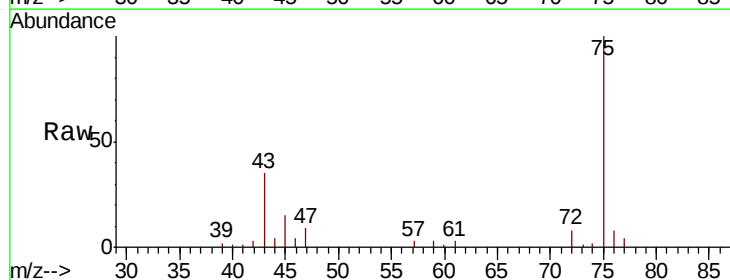
Acq: 04 Jan 2019 14:41

Tgt Ion: 43 Resp: 10401

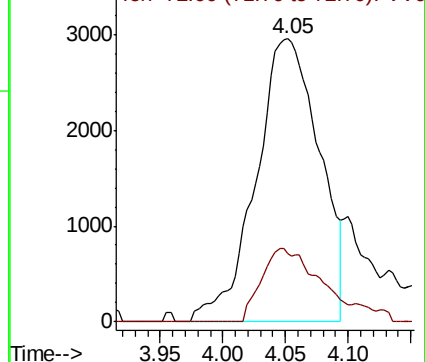
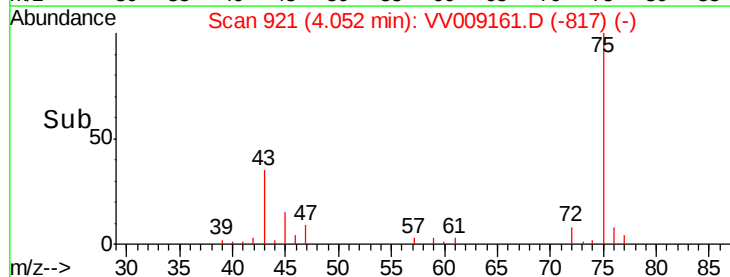
Ion Ratio Lower Upper

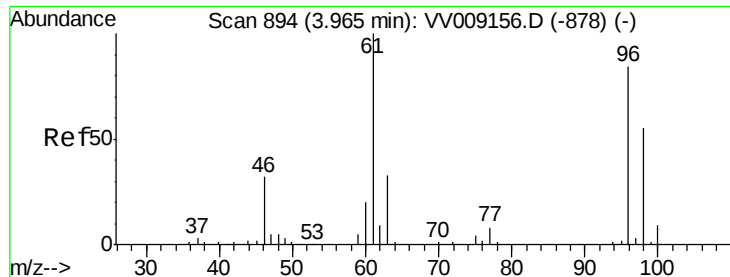
43 100

72 12.1 0.1 0.1#



Abundance Ion 43.00 (42.70 to 43.70): VV009161.D (-817) (-)



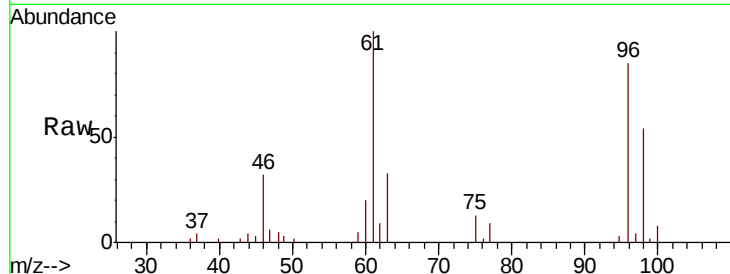


#22

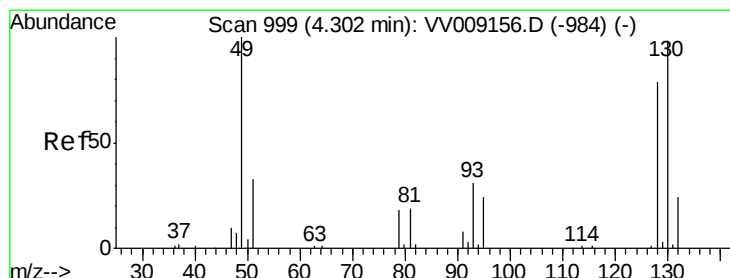
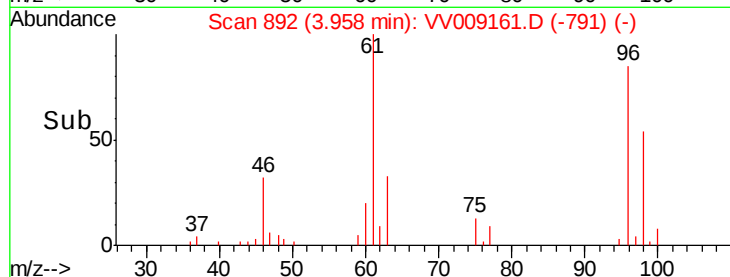
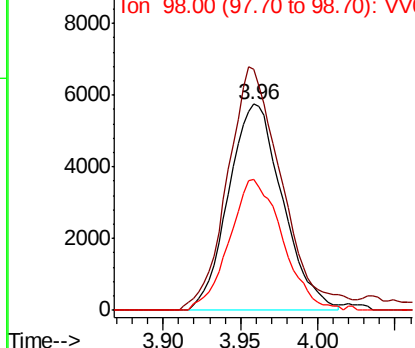
cis-1,2-Dichloroethene
Concen: 5.260 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tgt Ion: 96 Resp: 13940
Ion Ratio Lower Upper
96 100
61 117.2 83.2 154.6
98 63.6 45.8 85.2



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

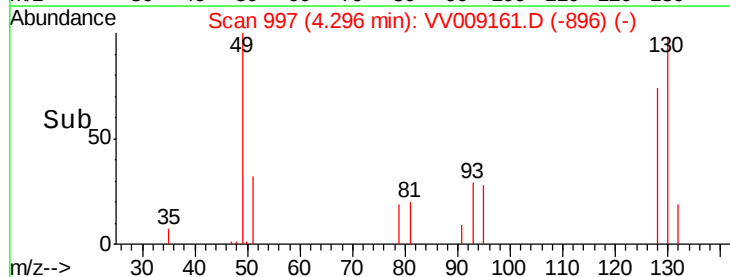
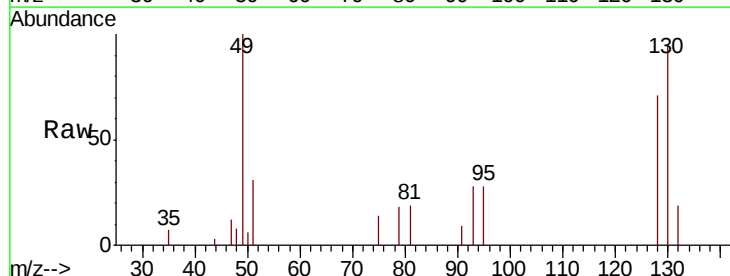
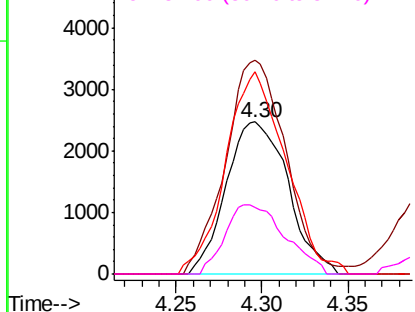


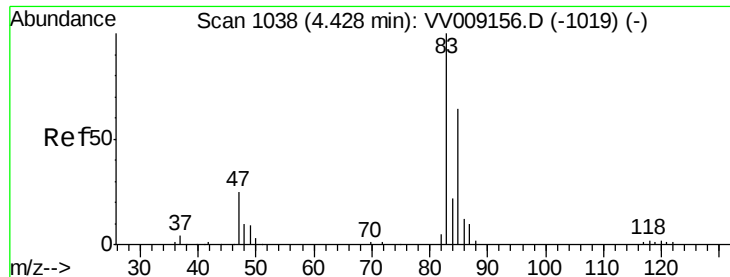
#23

Bromochloromethane
Concen: 4.959 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 128 Resp: 6183
Ion Ratio Lower Upper
128 100
49 140.5 89.9 167.0
130 133.0 87.8 163.2
51 43.5 33.8 50.6

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

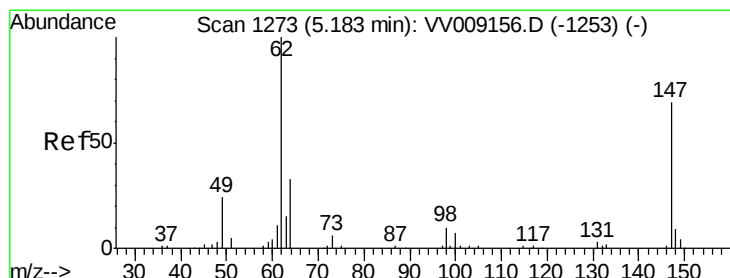
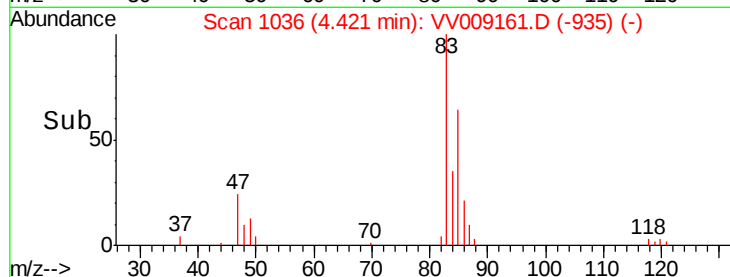
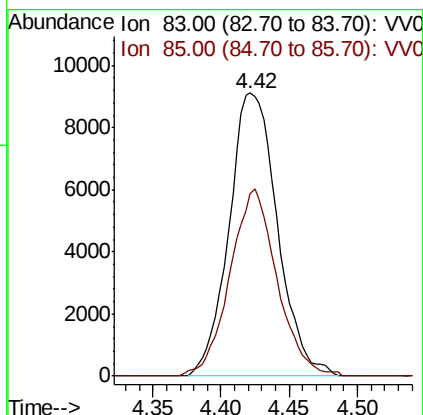
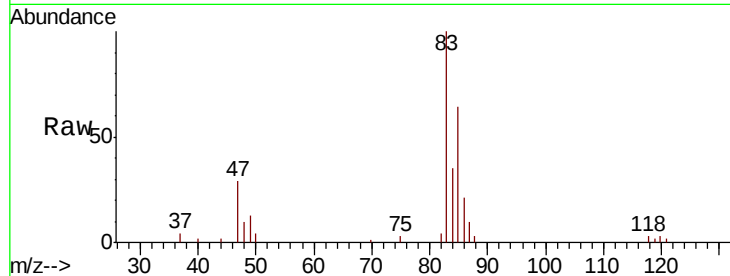




#25
Chloroform
Concen: 5.128 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

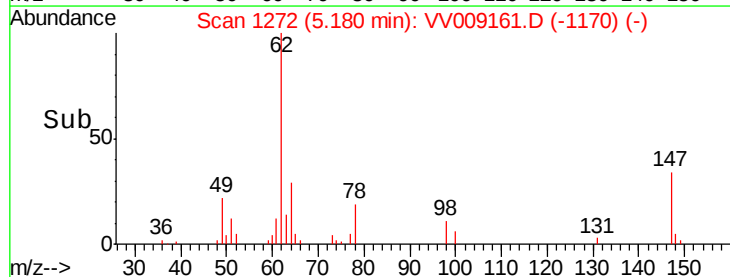
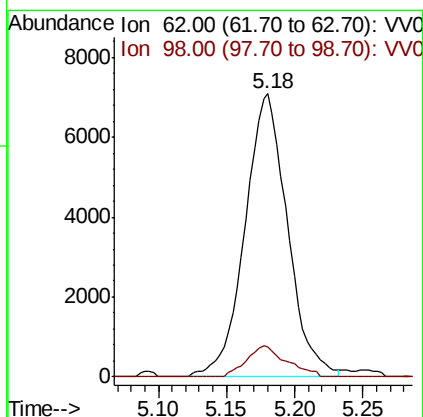
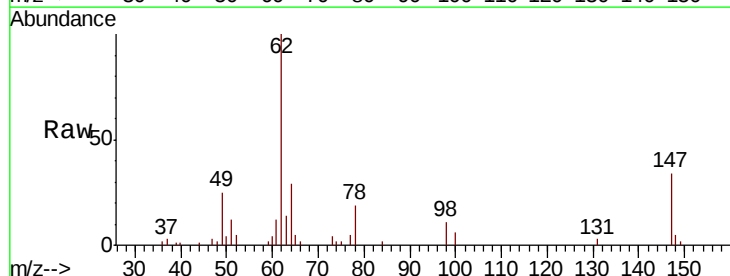
Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

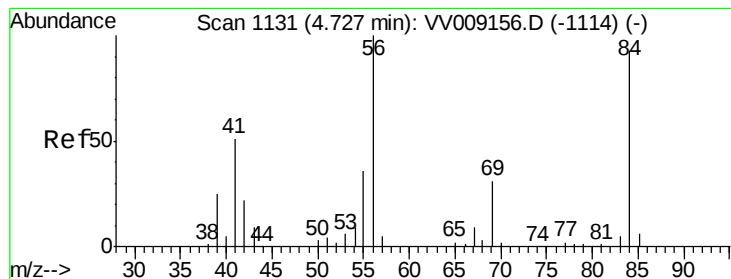
Tgt Ion: 83 Resp: 22484
Ion Ratio Lower Upper
83 100
85 64.1 45.3 84.1



#27
1,2-Dichloroethane
Concen: 5.217 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 62 Resp: 15363
Ion Ratio Lower Upper
62 100
98 10.5 8.1 12.1





#30

Cyclohexane

Concen: 5.287 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleID :

VSTD00568

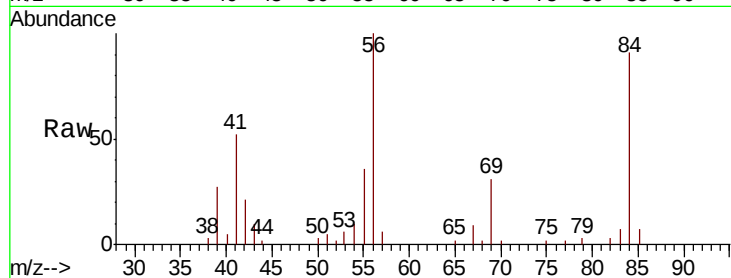
Tgt Ion: 56 Resp: 20348

Ion Ratio Lower Upper

56 100

69 30.9 26.0 39.0

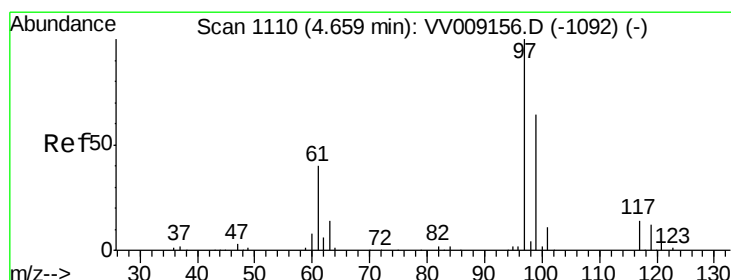
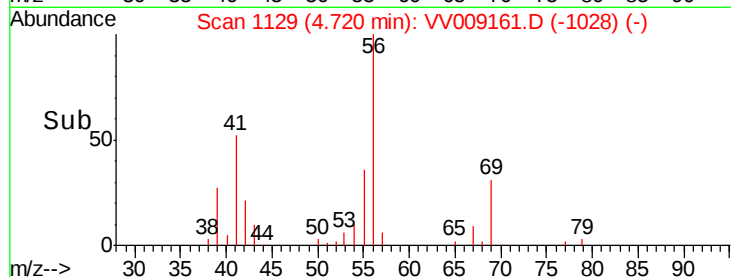
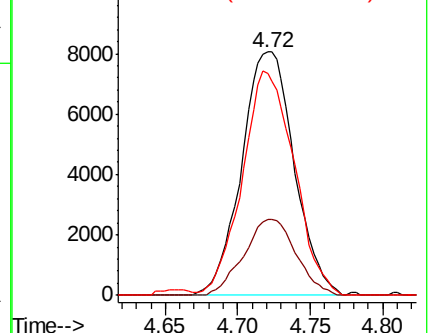
84 90.8 77.0 115.4



Abundance Ion 56.00 (55.70 to 56.70): VV009156.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VV009156.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VV009156.D (-1114) (-)



#31

1,1,1-Trichloroethane

Concen: 5.067 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

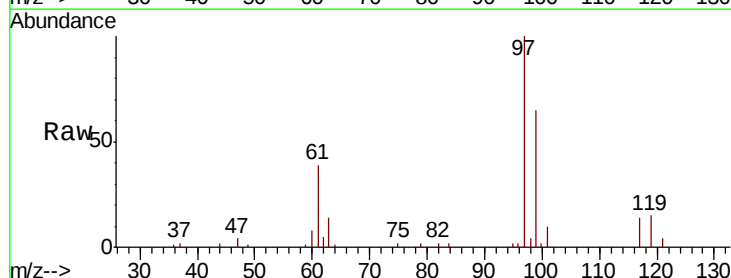
Tgt Ion: 97 Resp: 21385

Ion Ratio Lower Upper

97 100

99 63.6 51.2 76.8

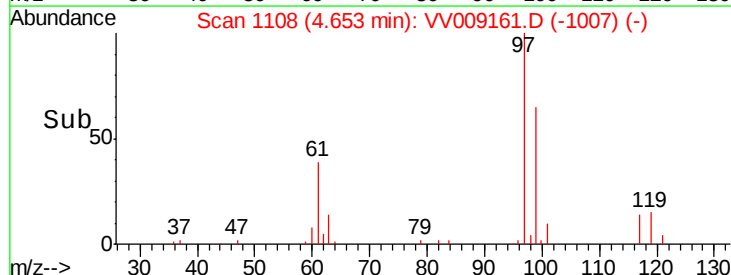
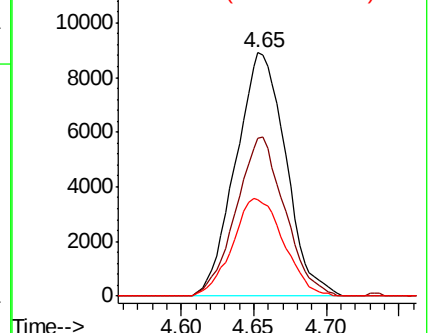
61 41.0 31.8 47.6

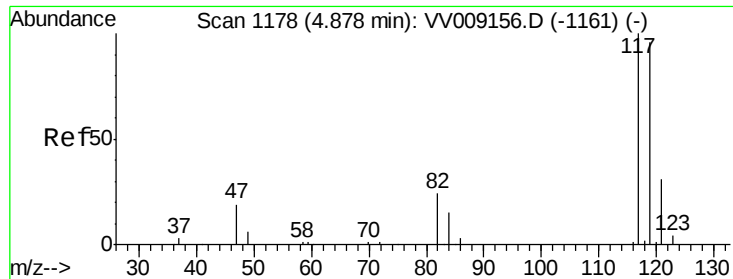


Abundance Ion 97.00 (96.70 to 97.70): VV009156.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV009156.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV009156.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 5.121 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

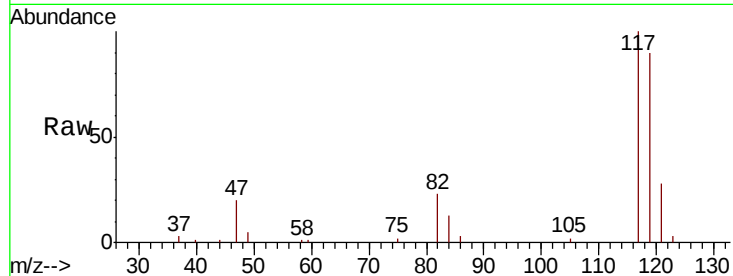
VSTD00568

Tgt Ion:117 Resp: 19784

Ion Ratio Lower Upper

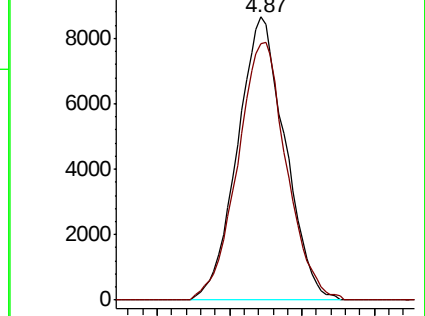
117 100

119 93.3 76.6 115.0

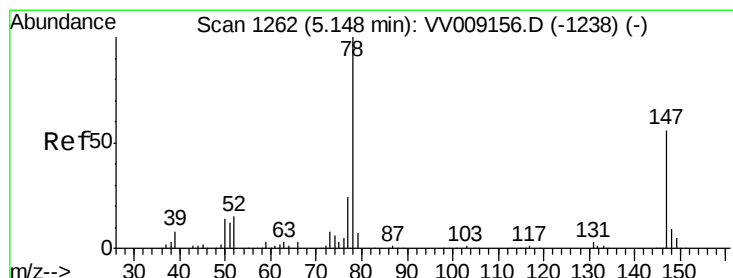
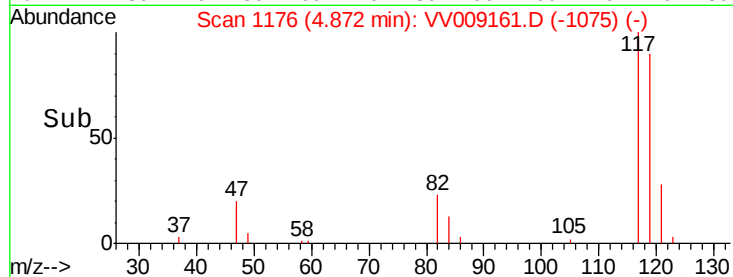


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#34

Benzene

Concen: 5.086 ug/L

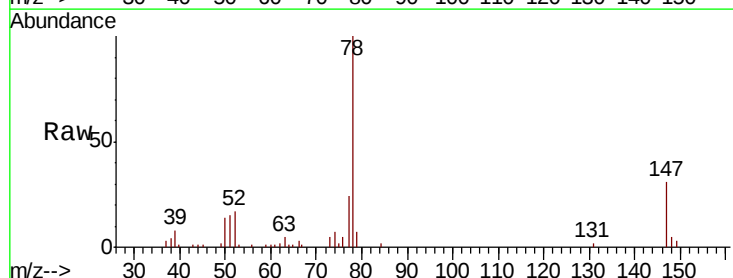
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

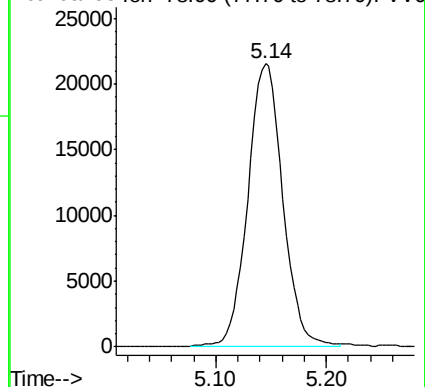
Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

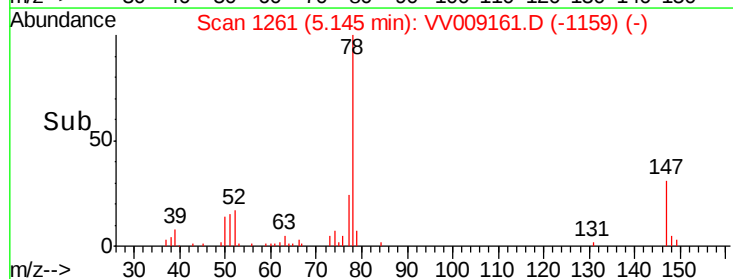
Tgt Ion: 78 Resp: 47465

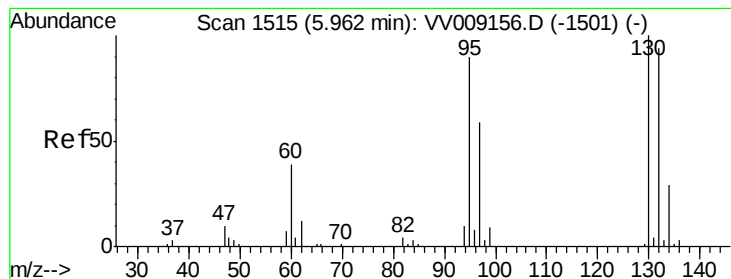


Abundance Ion 78.00 (77.70 to 78.70): VV0



Time-->





#35

Trichloroethene

Concen: 5.128 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tgt Ion: 95 Resp: 13787

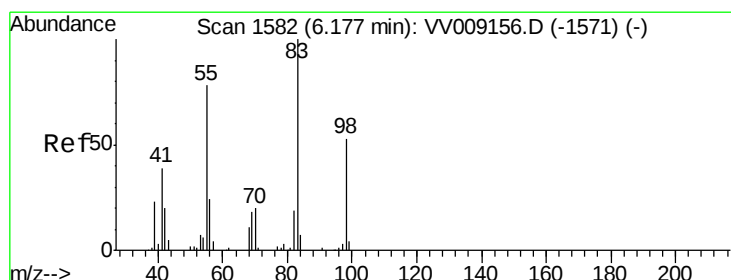
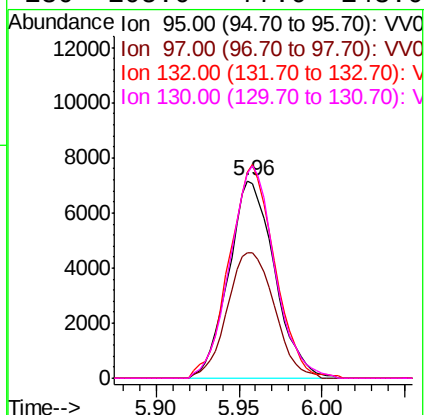
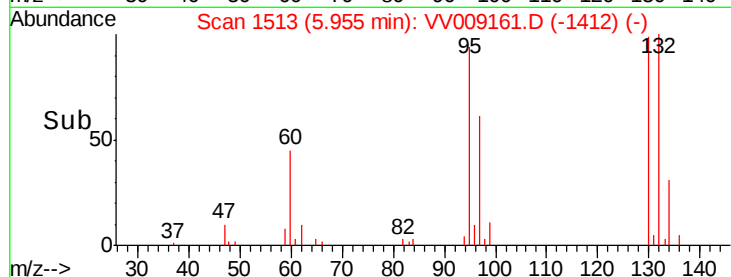
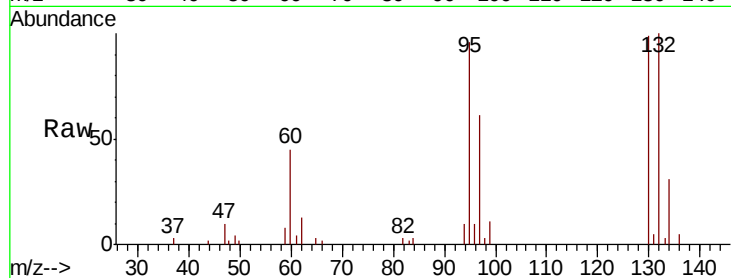
Ion Ratio Lower Upper

95 100

97 65.3 46.2 85.8

132 106.3 73.9 137.3

130 105.0 77.0 143.0



#36

Methylcyclohexane

Concen: 5.295 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

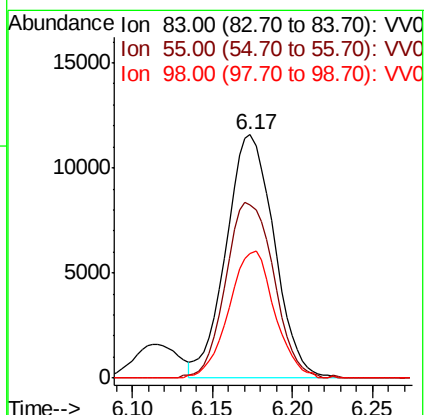
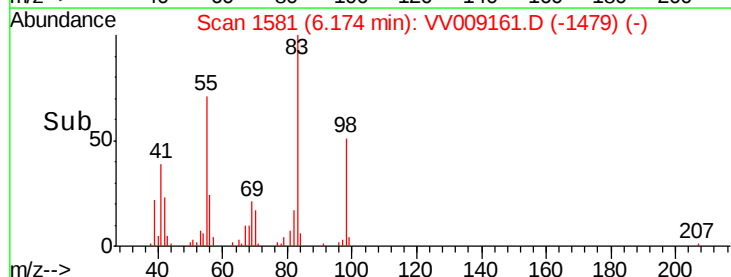
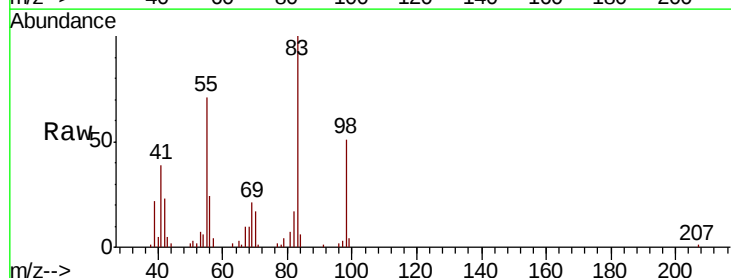
Tgt Ion: 83 Resp: 23787

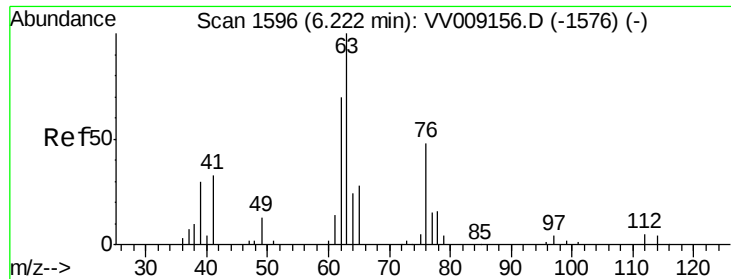
Ion Ratio Lower Upper

83 100

55 72.2 58.5 87.7

98 49.3 41.4 62.0

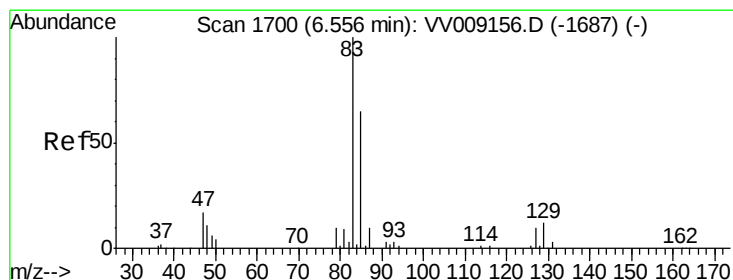
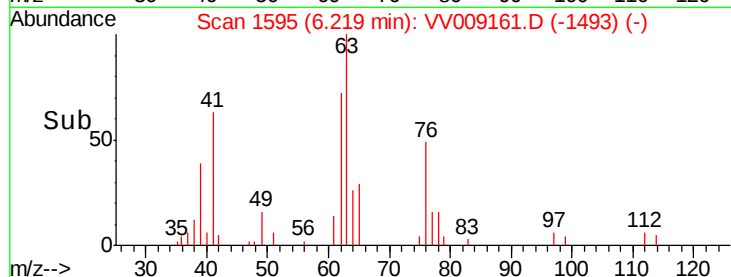
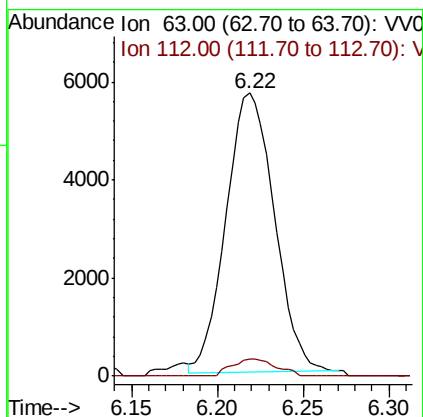
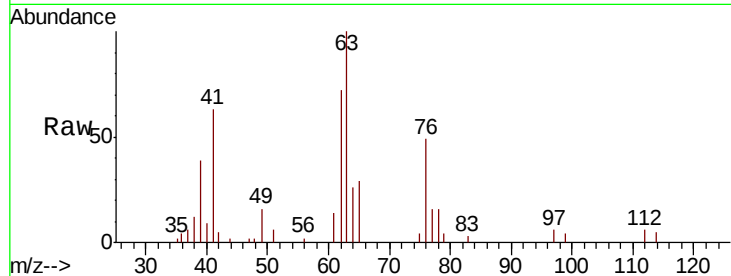




#40
 1,2-Dichloropropane
 Concen: 4.947 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

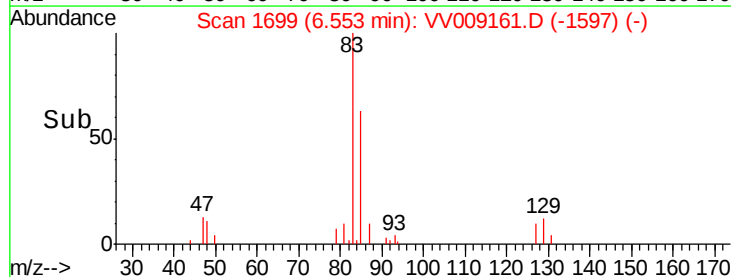
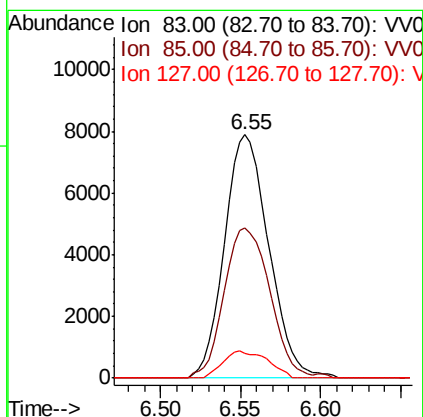
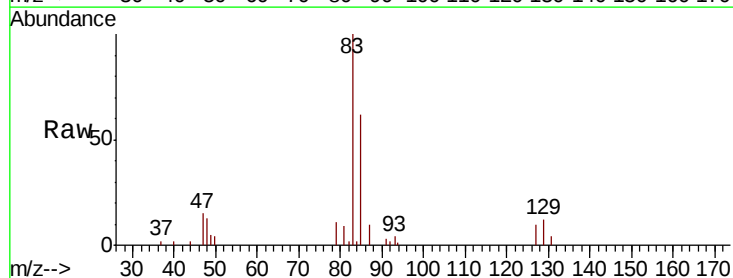
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

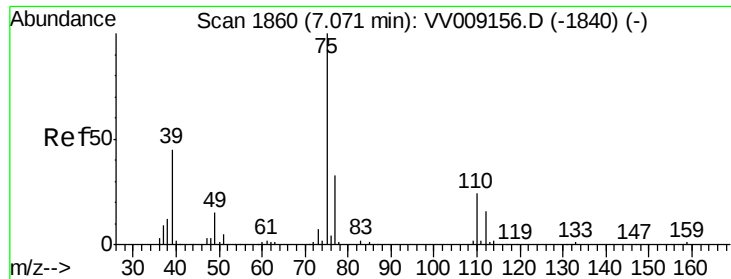
Tgt Ion: 63 Resp: 11128
 Ion Ratio Lower Upper
 63 100
 112 5.6 3.9 5.9



#41
 Bromodichloromethane
 Concen: 4.845 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion: 83 Resp: 14938
 Ion Ratio Lower Upper
 83 100
 85 61.7 45.3 84.1
 127 10.1 7.8 11.6





#42

cis-1,3-Dichloropropene

Concen: 4.684 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

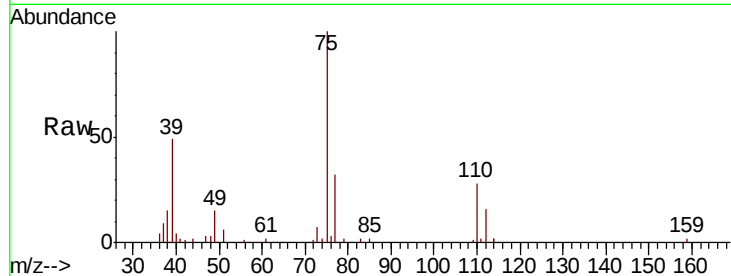
VSTD00568

Tgt Ion: 75 Resp: 16697

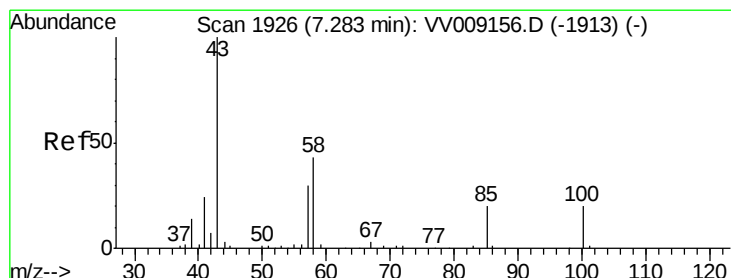
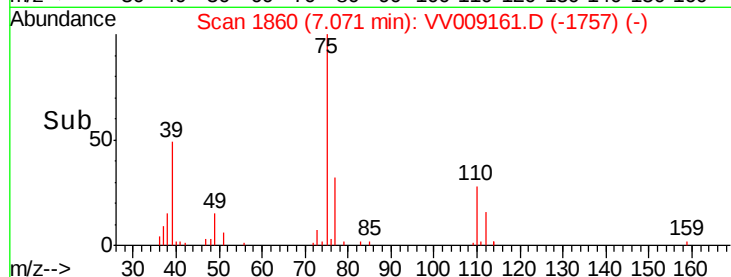
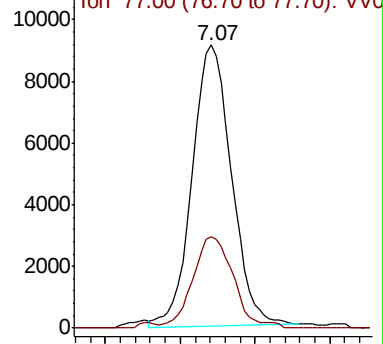
Ion Ratio Lower Upper

75 100

77 32.5 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VV009161.D (-1757) (-)



#43

4-Methyl-2-pentanone

Concen: 9.798 ug/L

RT: 7.29 min Scan# 1927

Delta R.T. 0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

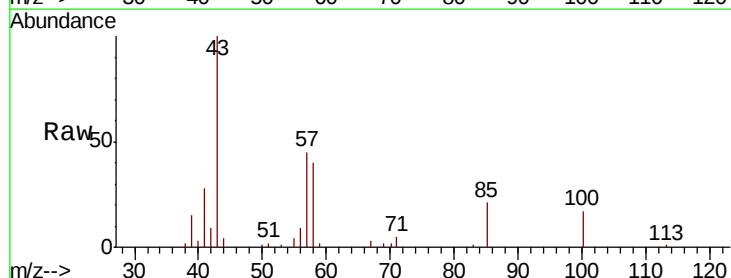
Tgt Ion: 43 Resp: 21009

Ion Ratio Lower Upper

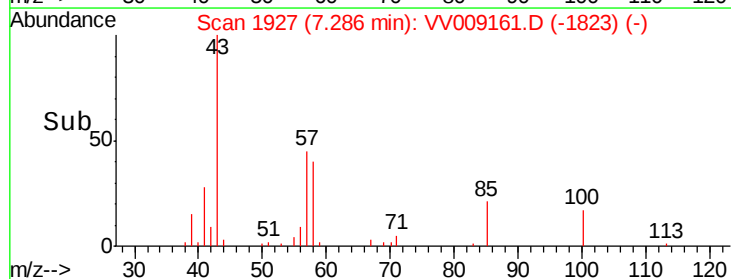
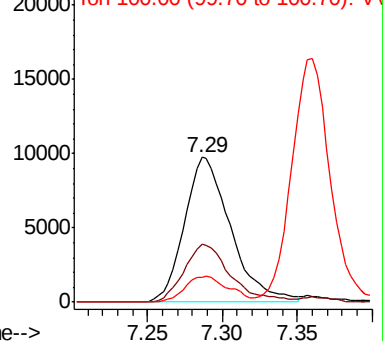
43 100

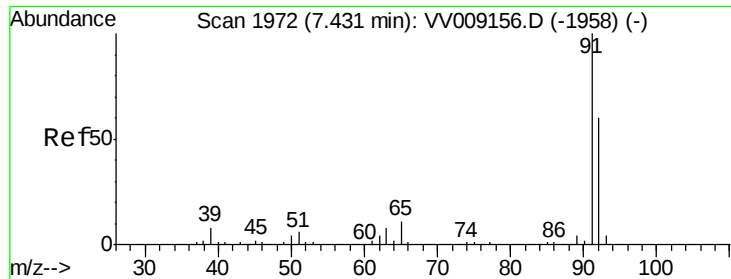
58 39.9 33.4 50.2

100 16.9 15.2 22.8



Abundance Ion 43.00 (42.70 to 43.70): VV009161.D (-1823) (-)





#44

Toluene

Concen: 5.042 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

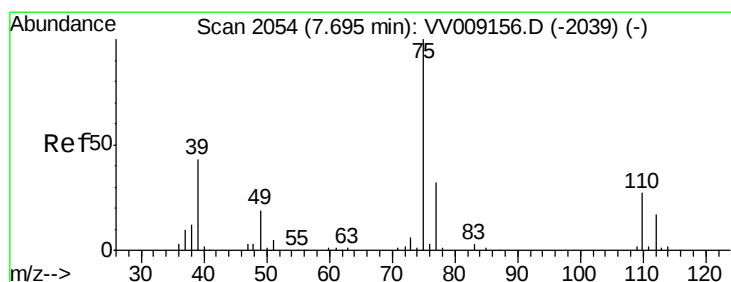
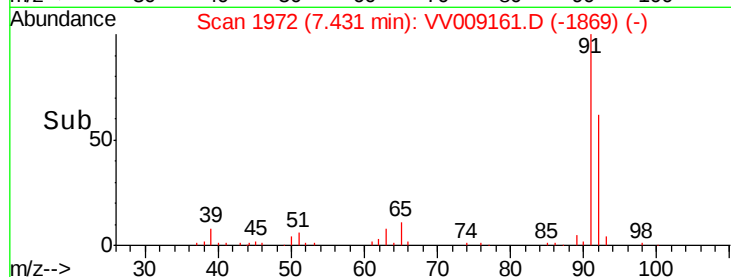
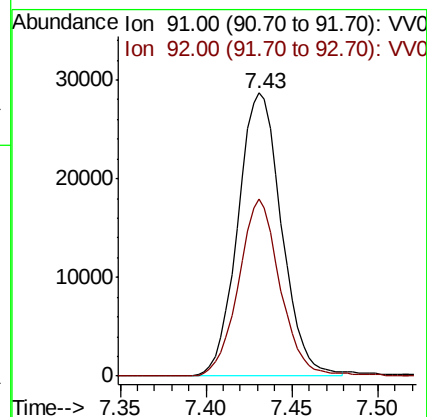
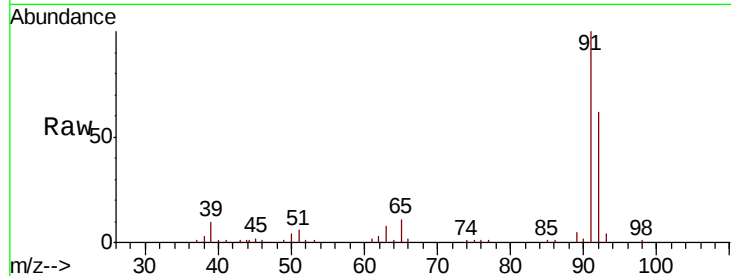
VSTD00568

Tgt Ion: 91 Resp: 50738

Ion Ratio Lower Upper

91 100

92 62.4 41.7 77.5



#45

trans-1,3-Dichloropropene

Concen: 4.627 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009161.D

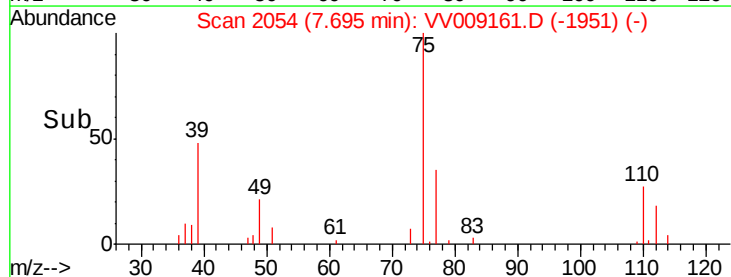
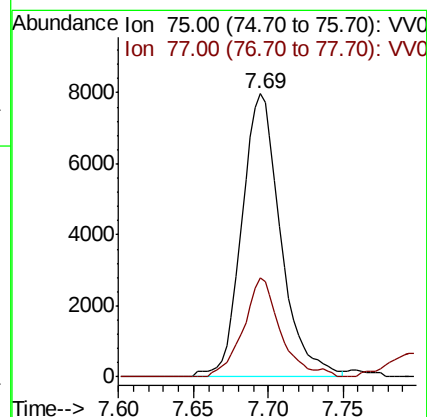
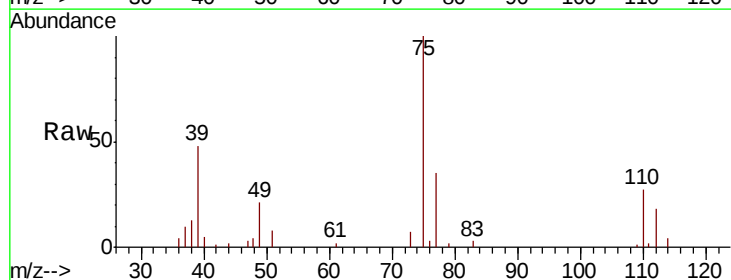
Acq: 04 Jan 2019 14:41

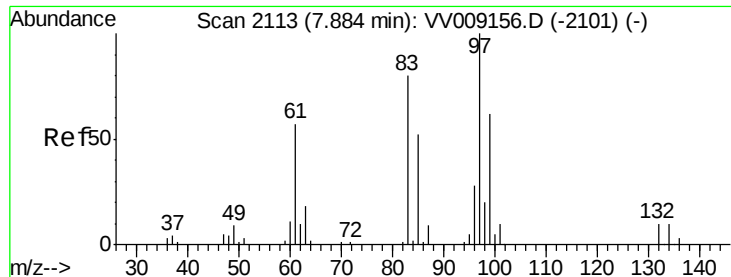
Tgt Ion: 75 Resp: 14441

Ion Ratio Lower Upper

75 100

77 34.8 22.3 41.5

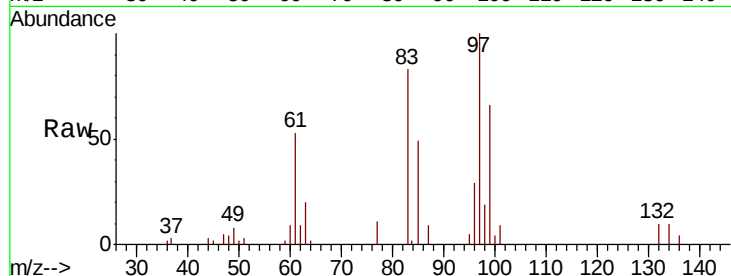




#46
1,1,2-Trichloroethane
Concen: 5.073 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tgt Ion:	97	Resp:	10087
Ion	Ratio	Lower	Upper
97	100		
83	82.7	56.0	104.0
85	48.6	36.5	67.9
99	65.5	43.5	80.9



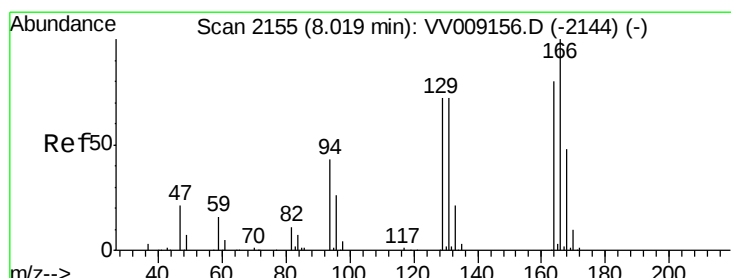
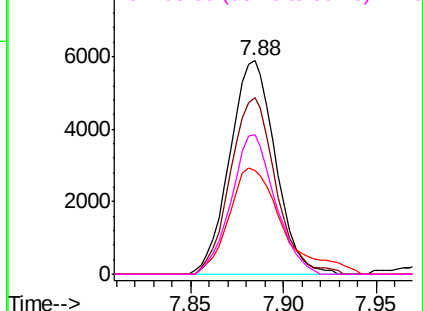
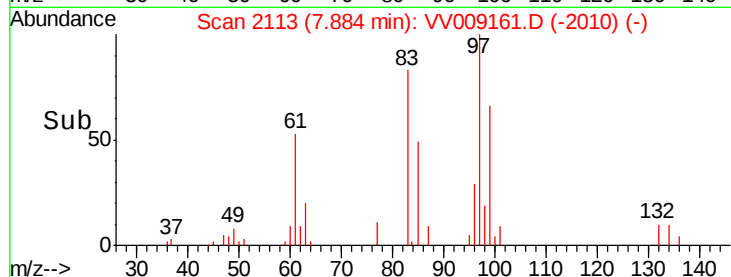
Abundance

Ion 97.00 (96.70 to 97.70): VV009161.D (-2010) (-)

Ion 83.00 (82.70 to 83.70): VV009161.D (-2010) (-)

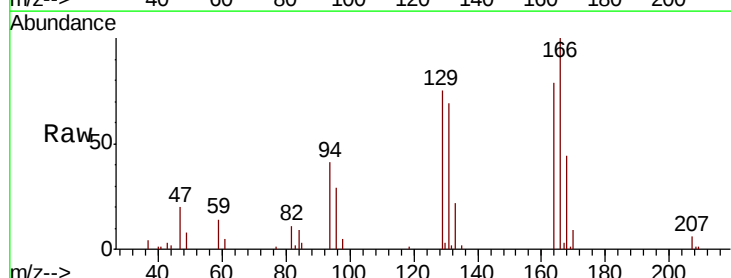
Ion 85.00 (84.70 to 85.70): VV009161.D (-2010) (-)

Ion 99.00 (98.70 to 99.70): VV009161.D (-2010) (-)



#47
Tetrachloroethene
Concen: 5.174 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion:	164	Resp:	12053
Ion	Ratio	Lower	Upper
164	100		
129	94.9	63.5	117.9
131	87.3	63.2	117.4
166	126.1	88.0	163.4



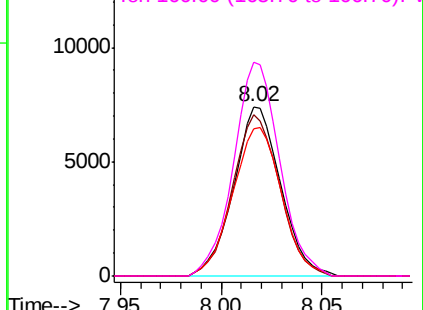
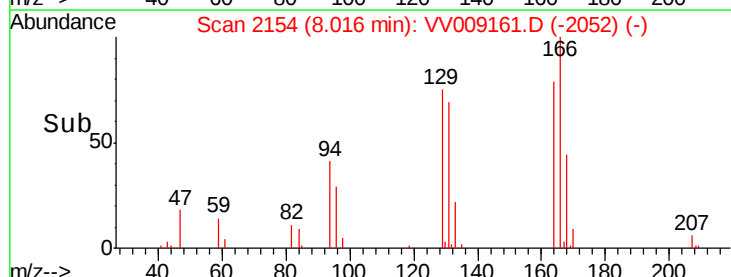
Abundance

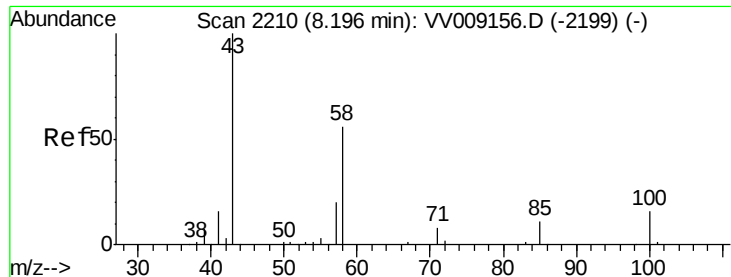
Ion 164.00 (163.70 to 164.70): VV009161.D (-2052) (-)

Ion 129.00 (128.70 to 129.70): VV009161.D (-2052) (-)

Ion 131.00 (130.70 to 131.70): VV009161.D (-2052) (-)

Ion 166.00 (165.70 to 166.70): VV009161.D (-2052) (-)

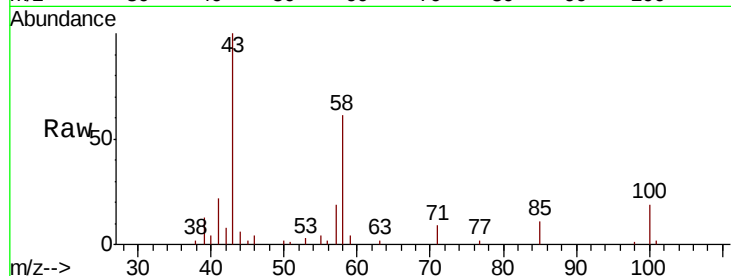




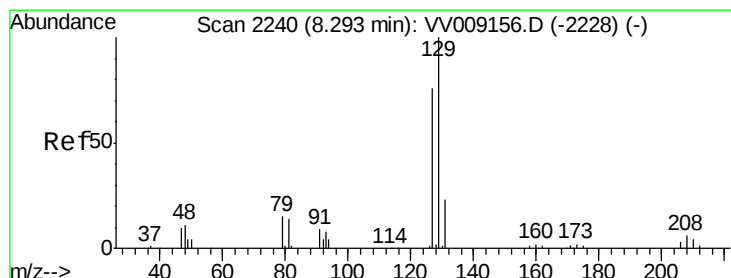
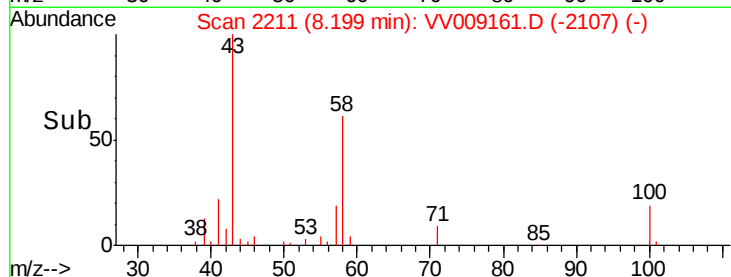
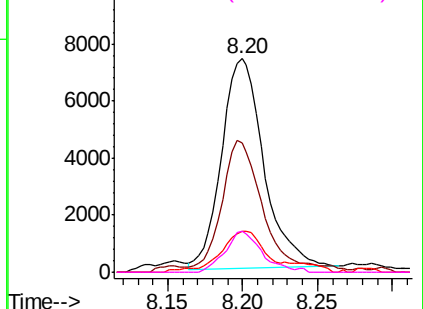
#49
2-Hexanone
Concen: 9.211 ug/L
RT: 8.20 min Scan# 2211
Delta R.T. 0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tgt Ion: 43 Resp: 14535
Ion Ratio Lower Upper
43 100
58 55.7 46.7 70.1
57 17.4 15.5 23.3
100 16.6 12.8 19.2

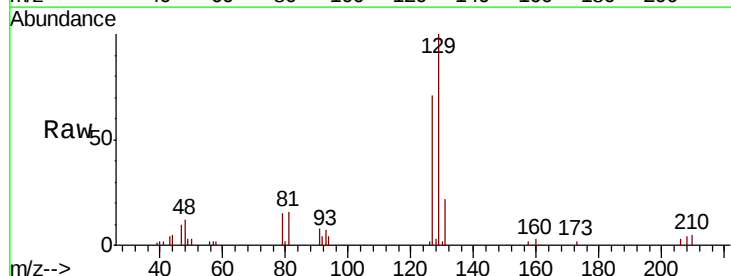


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

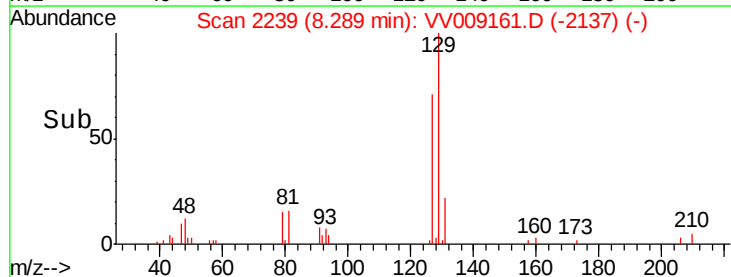
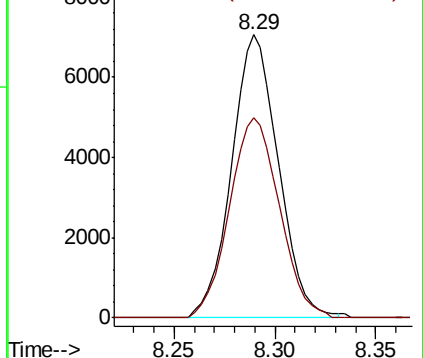


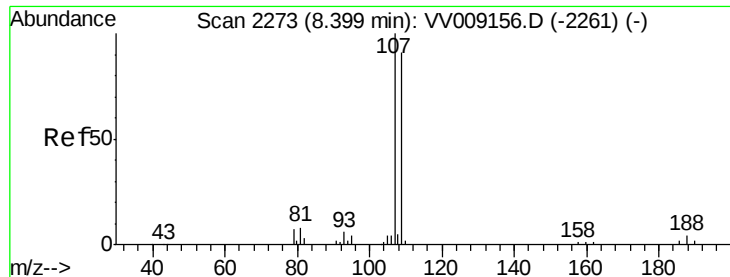
#50
Dibromochloromethane
Concen: 4.694 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 129 Resp: 11465
Ion Ratio Lower Upper
129 100
127 70.5 53.1 98.7



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





#51

1,2-Dibromoethane

Concen: 4.879 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

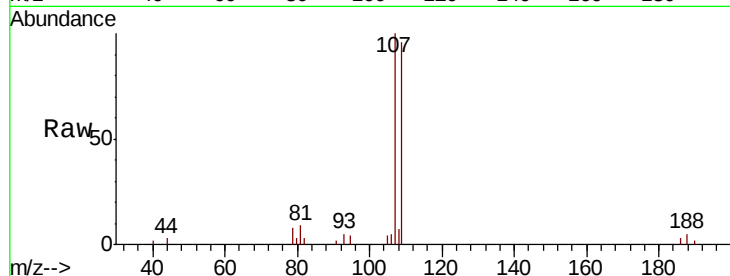
Tgt Ion:107 Resp: 10143

Ion Ratio Lower Upper

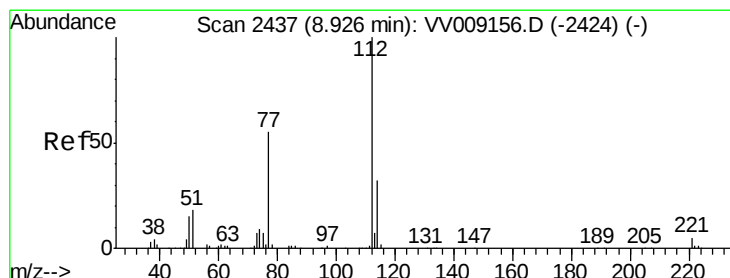
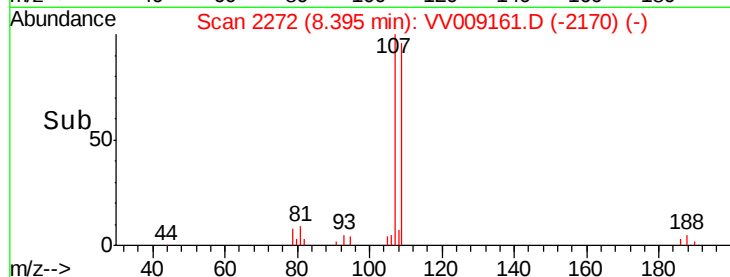
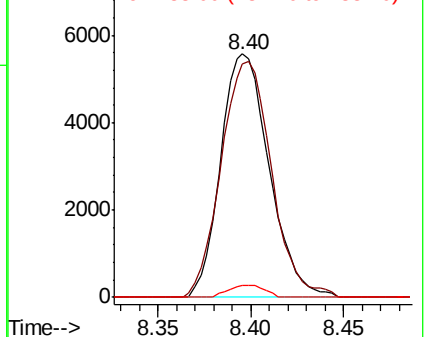
107 100

109 96.1 63.6 118.0

188 4.9 3.3 4.9



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



#52

Chlorobenzene

Concen: 5.076 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

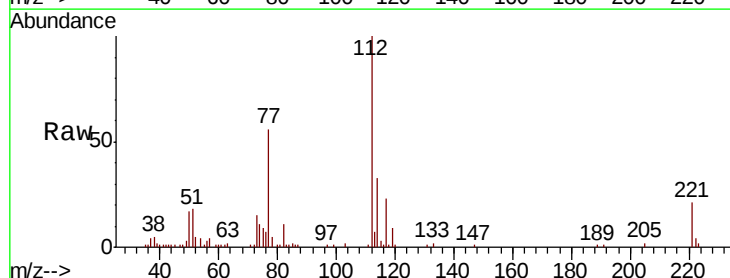
Tgt Ion:112 Resp: 35044

Ion Ratio Lower Upper

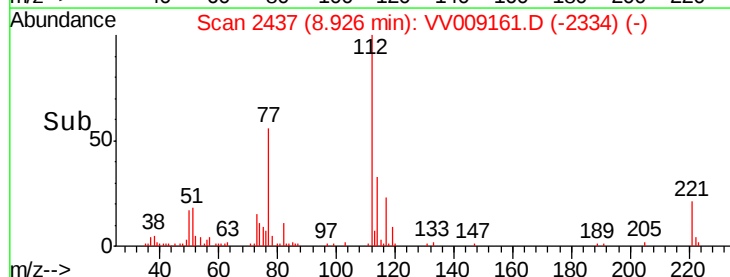
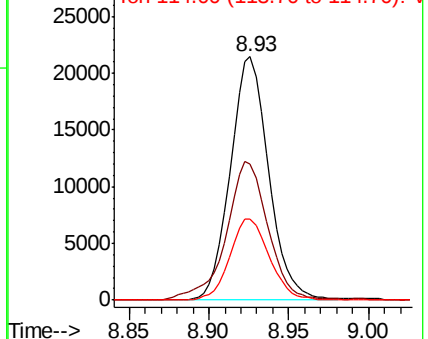
112 100

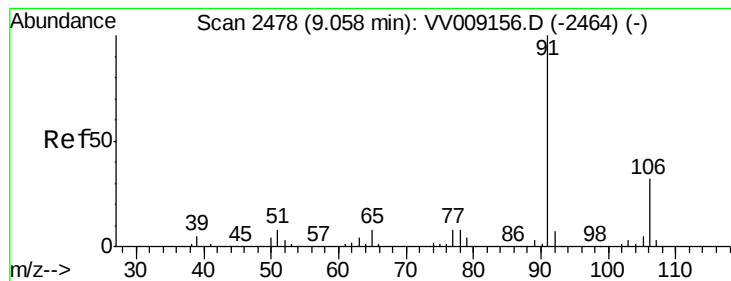
77 55.8 44.6 66.8

114 33.4 22.5 41.9



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





#53

Ethylbenzene

Concen: 5.020 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

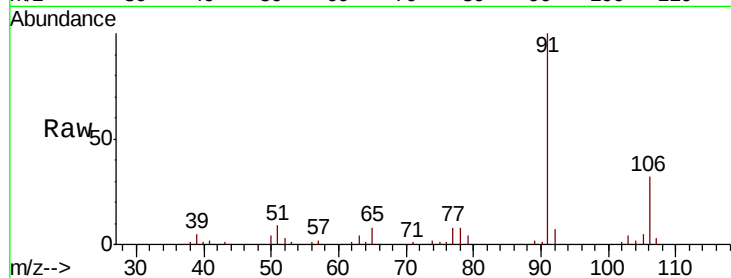
VSTD00568

Tgt Ion: 91 Resp: 57121

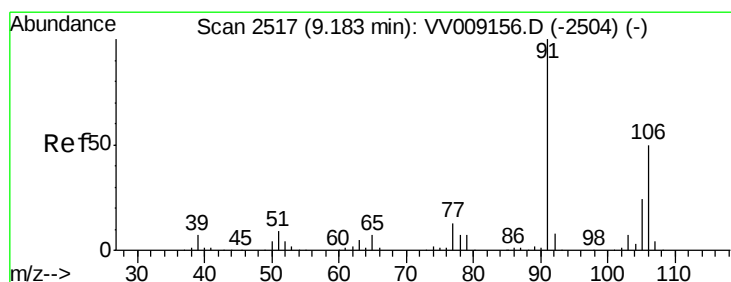
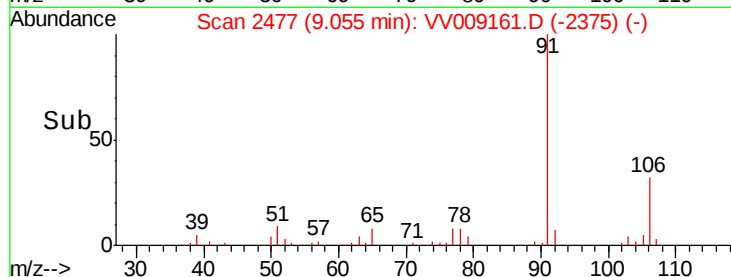
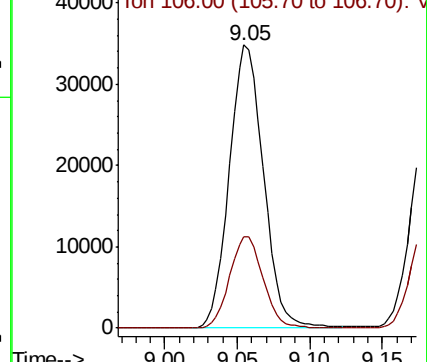
Ion Ratio Lower Upper

91 100

106 32.3 22.5 41.9



Abundance Ion 91.00 (90.70 to 91.70): VV009161.D (-2375) (-)



#54

m,p-Xylene

Concen: 4.951 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009161.D

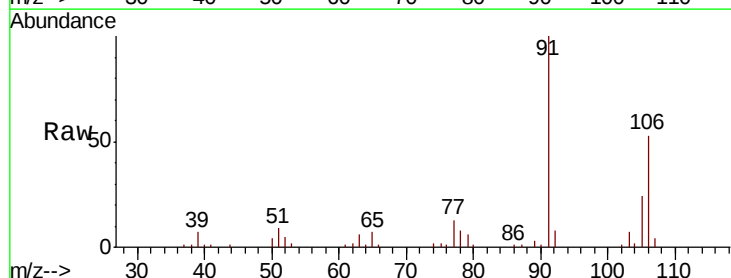
Acq: 04 Jan 2019 14:41

Tgt Ion: 106 Resp: 21948

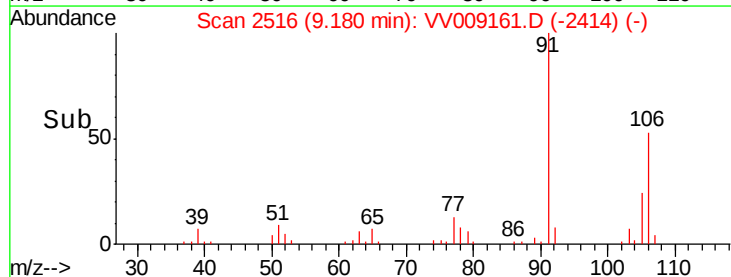
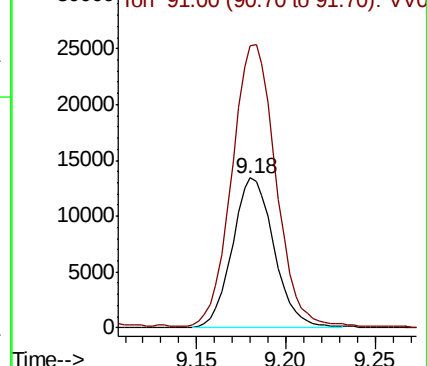
Ion Ratio Lower Upper

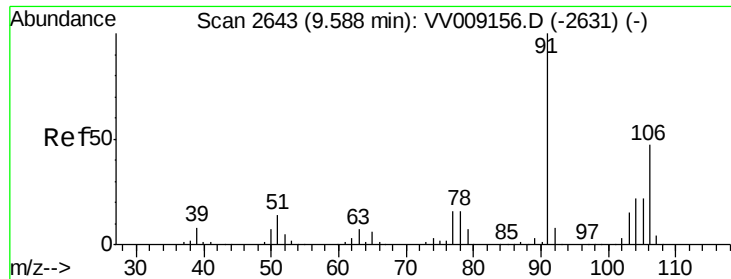
106 100

91 188.2 138.9 257.9



Abundance Ion 106.00 (105.70 to 106.70): VV009161.D (-2414) (-)





#55

o-xylene

Concen: 4.863 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

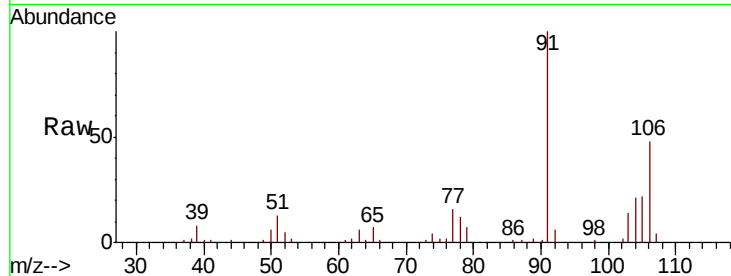
VSTD00568

Tgt Ion:106 Resp: 19936

Ion Ratio Lower Upper

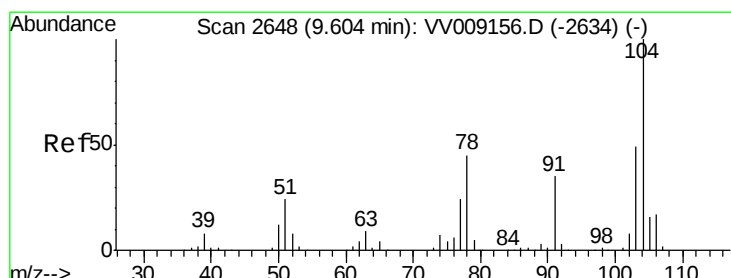
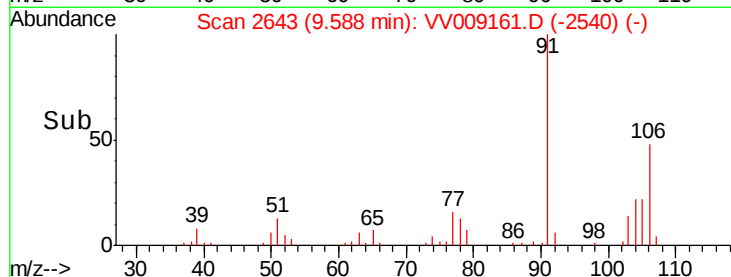
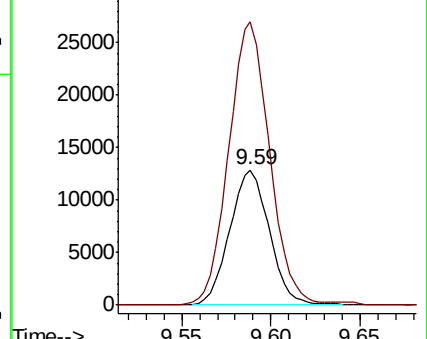
106 100

91 209.3 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.822 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009161.D

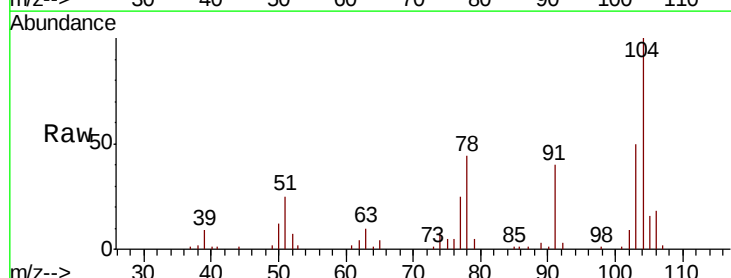
Acq: 04 Jan 2019 14:41

Tgt Ion:104 Resp: 33340

Ion Ratio Lower Upper

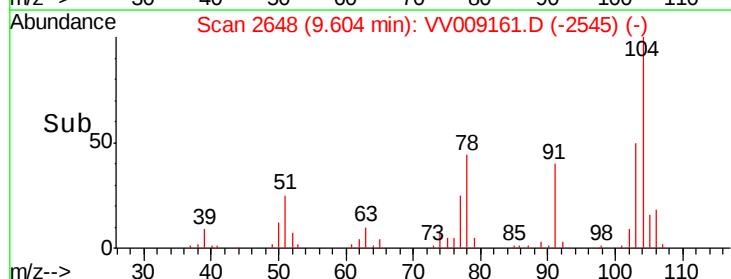
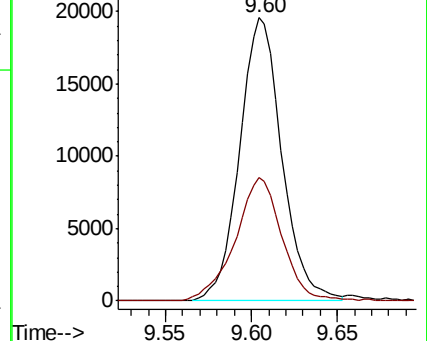
104 100

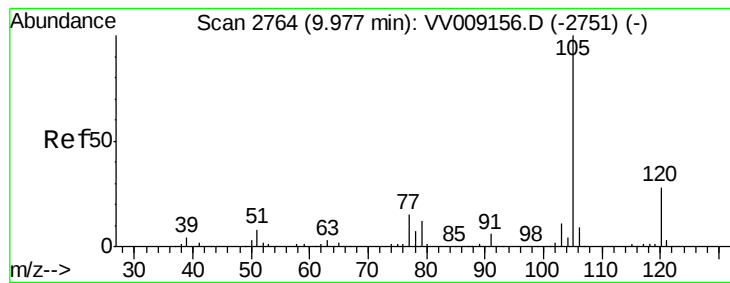
78 43.7 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 4.922 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

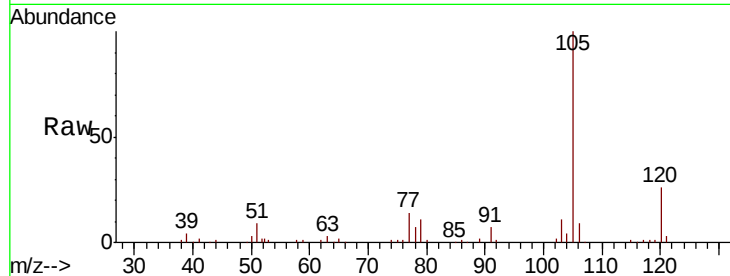
Tgt Ion: 105 Resp: 55977

Ion Ratio Lower Upper

105 100

120 27.5 21.9 32.9

77 14.8 12.1 18.1

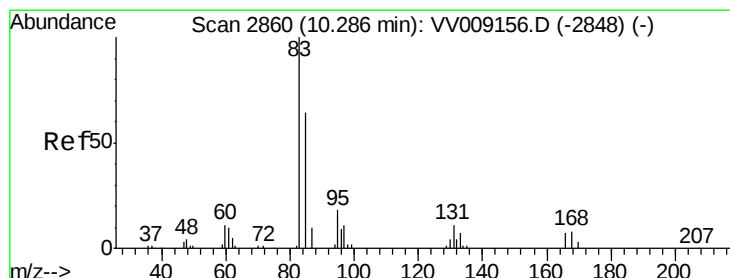
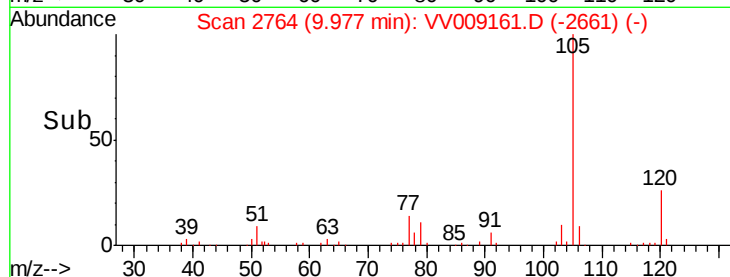
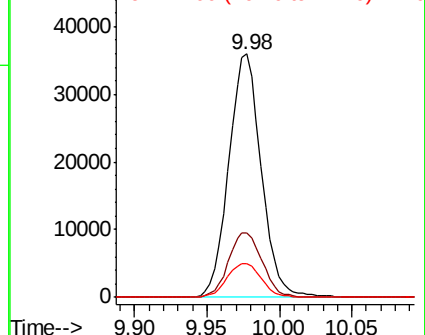


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.662 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

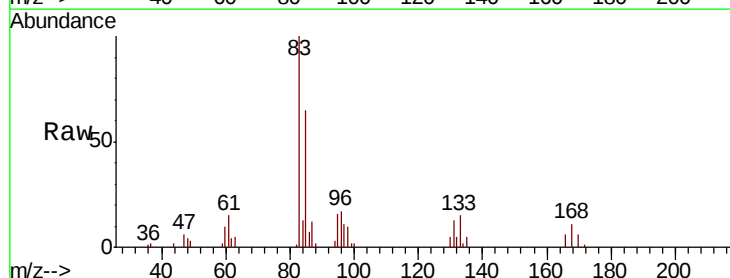
Tgt Ion: 83 Resp: 12420

Ion Ratio Lower Upper

83 100

85 65.4 45.4 84.2

131 12.9 9.4 14.0

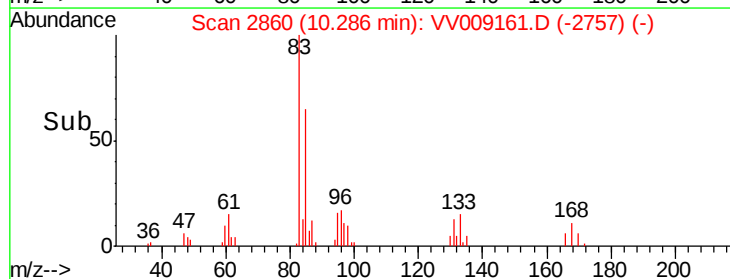
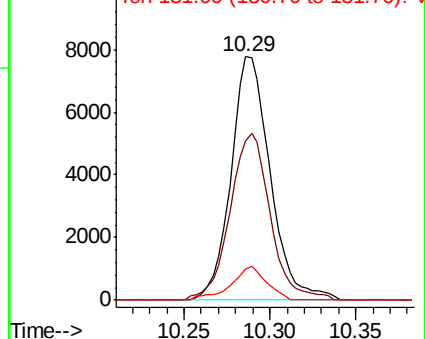


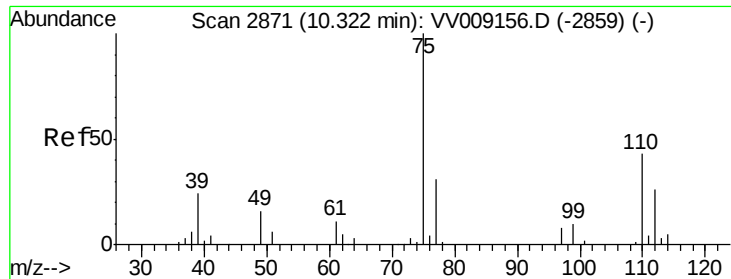
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

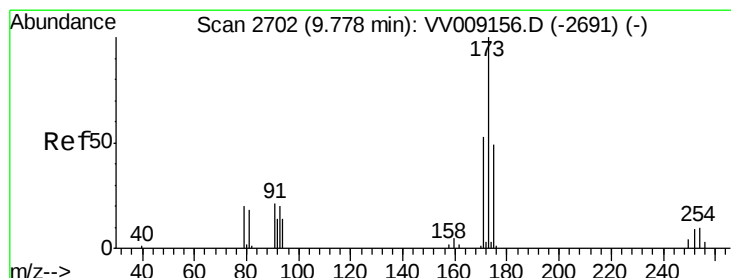
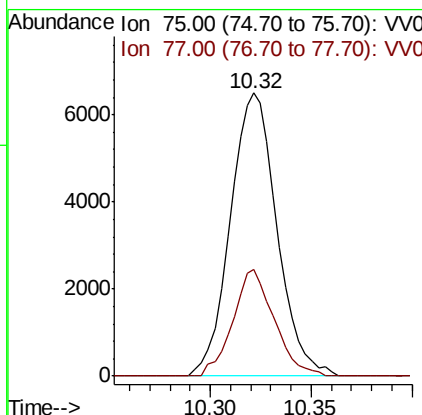
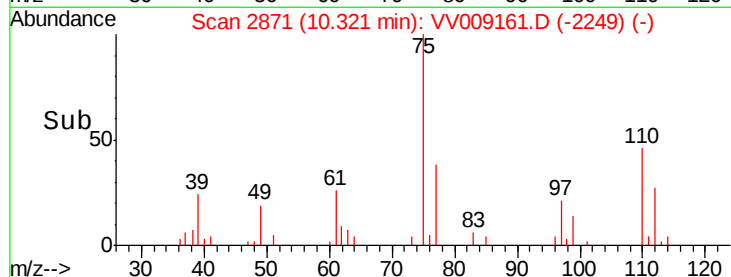
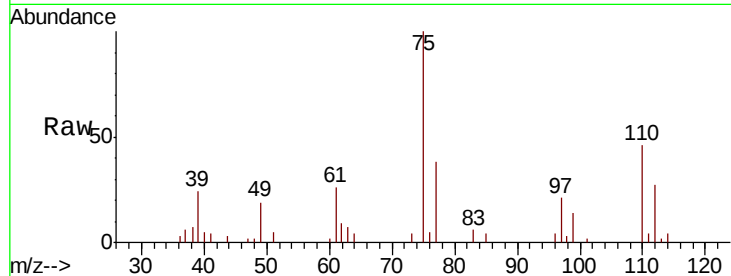




#59
1,2,3-Trichloropropane
Concen: 4.928 ug/L
RT: 10.32 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

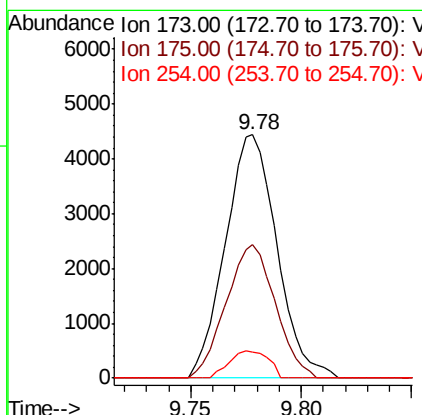
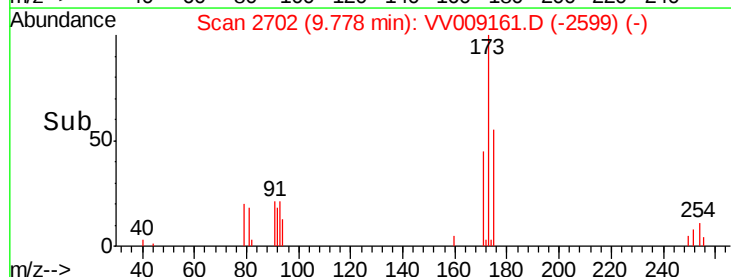
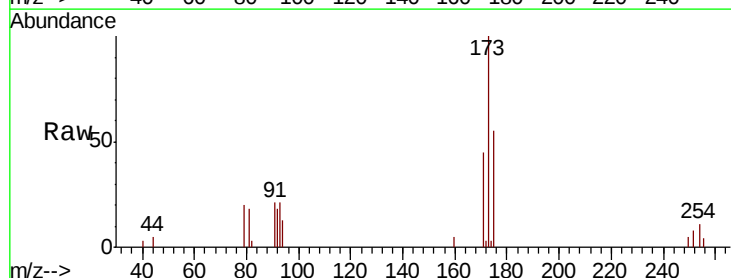
Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

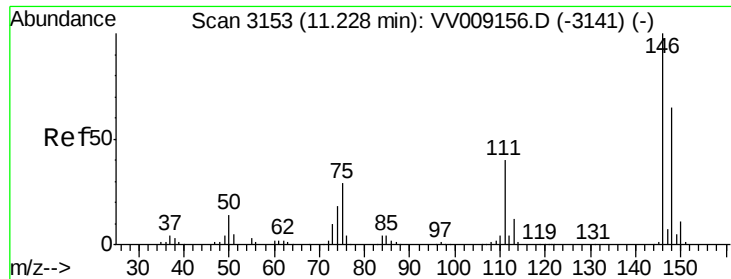
Tgt Ion: 75 Resp: 10492
Ion Ratio Lower Upper
75 100
77 33.5 25.0 37.6



#62
Bromoform
Concen: 4.725 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 173 Resp: 7198
Ion Ratio Lower Upper
173 100
175 52.4 38.4 57.6
254 8.5 8.0 12.0

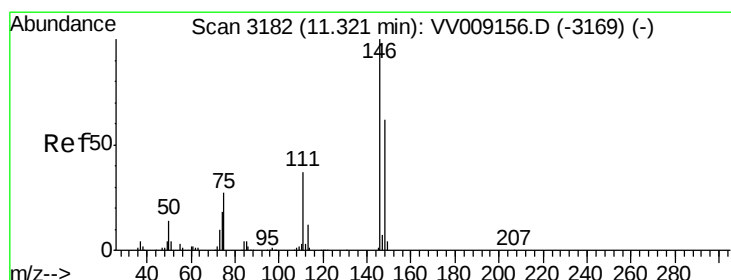
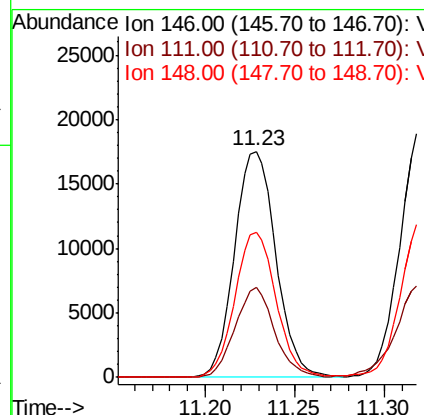
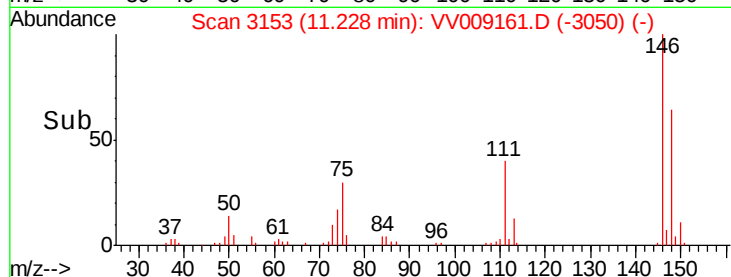
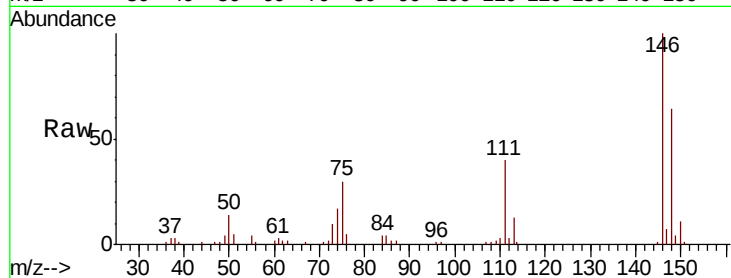




#63
 1,3-Dichlorobenzene
 Concen: 5.221 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

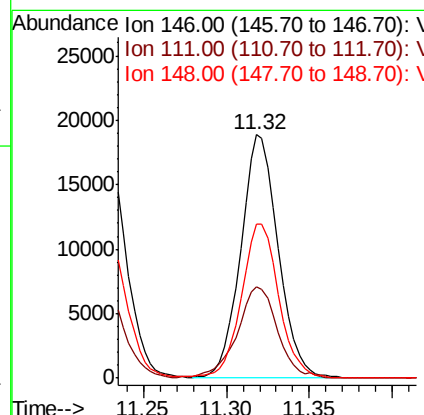
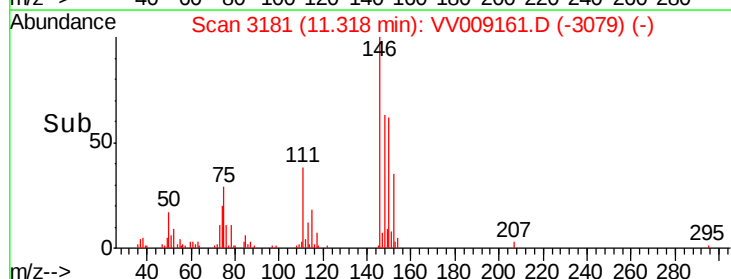
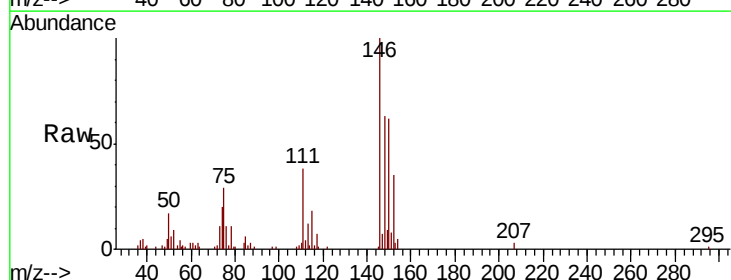
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

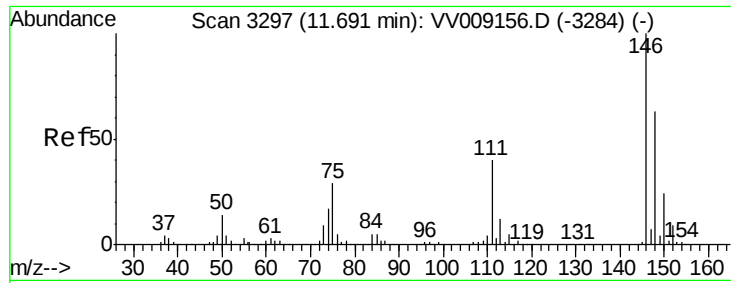
Tgt Ion:146 Resp: 28375
 Ion Ratio Lower Upper
 146 100
 111 39.7 28.0 52.0
 148 64.2 45.6 84.8



#64
 1,4-Dichlorobenzene
 Concen: 5.215 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion:146 Resp: 29545
 Ion Ratio Lower Upper
 146 100
 111 37.7 26.0 48.4
 148 63.0 43.4 80.6





#65

1,2-Dichlorobenzene

Concen: 5.205 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

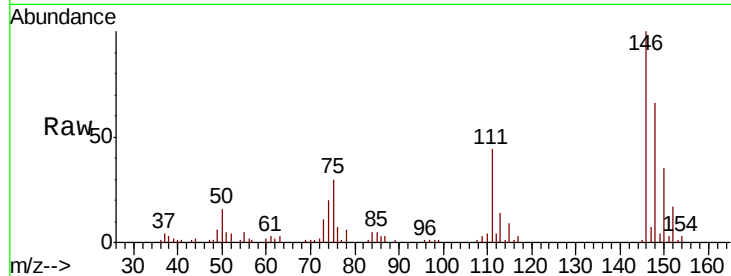
Tgt Ion:146 Resp: 26950

Ion Ratio Lower Upper

146 100

111 43.9 32.2 48.4

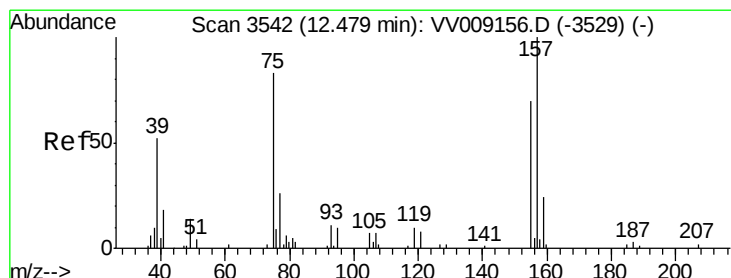
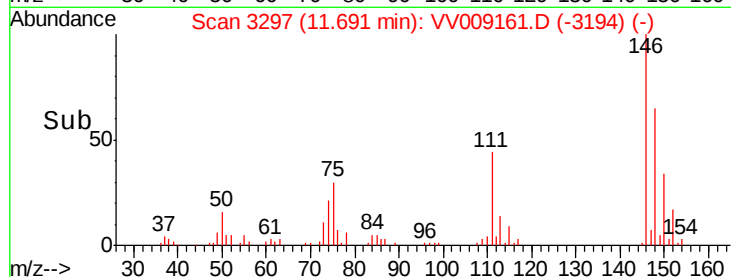
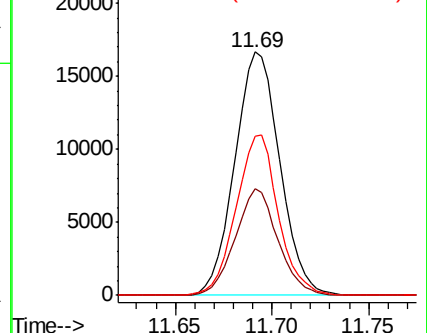
148 65.6 50.4 75.6



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: 4.502 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

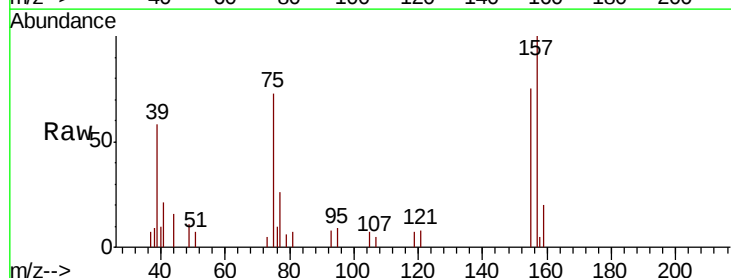
Tgt Ion: 75 Resp: 2420

Ion Ratio Lower Upper

75 100

157 145.1 96.9 145.3

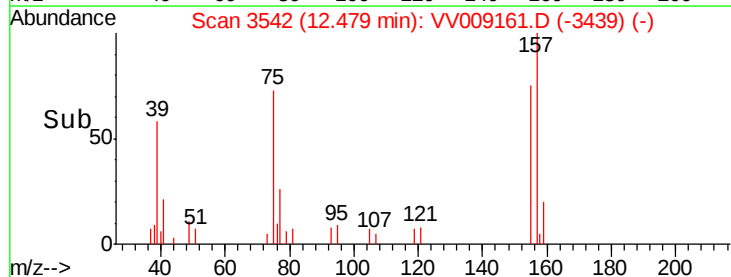
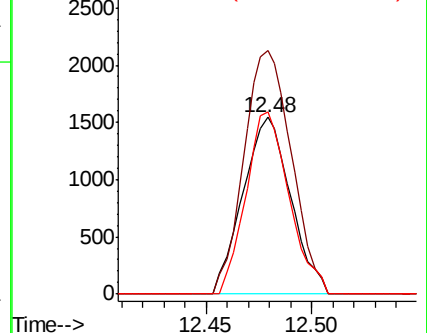
155 103.2 68.0 102.0#

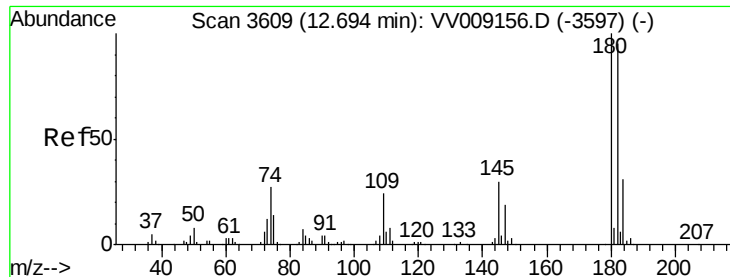


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

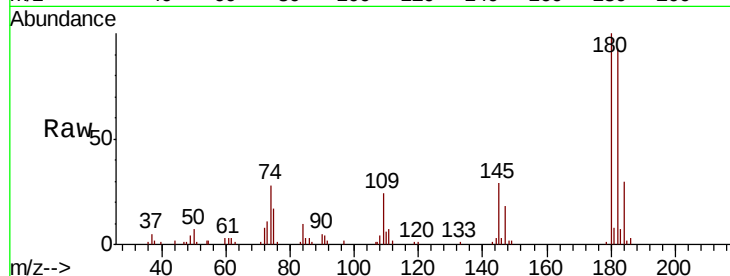




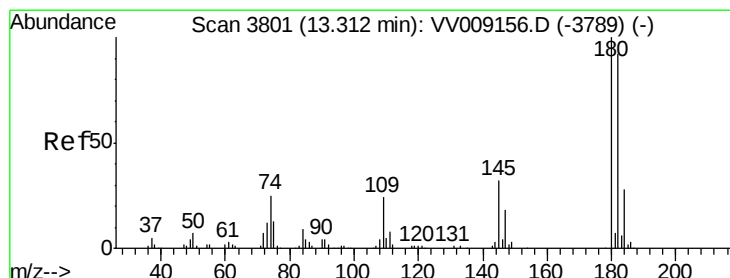
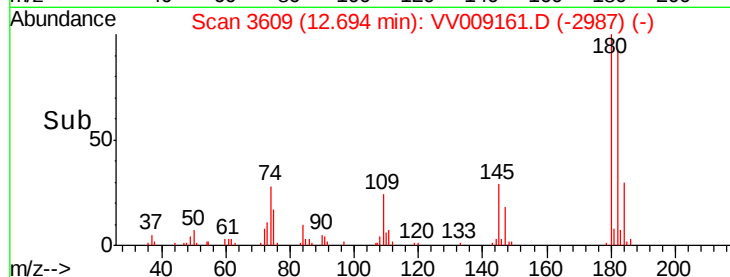
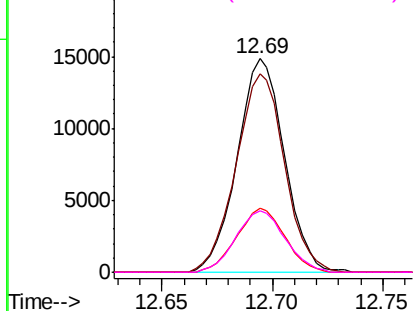
#67
 1,3,5-Trichlorobenzene
 Concen: 5.064 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Tgt Ion:180 Resp: 22196
 Ion Ratio Lower Upper
 180 100
 182 95.4 75.3 112.9
 184 30.5 24.6 37.0
 145 30.2 23.9 35.9

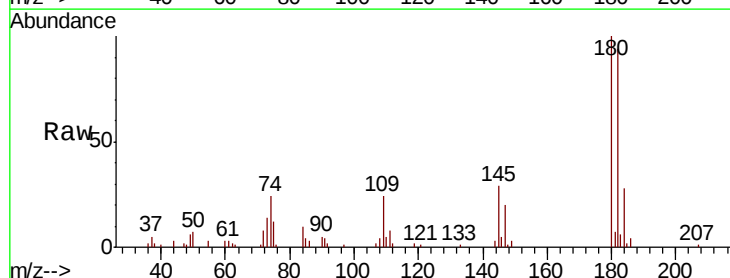


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

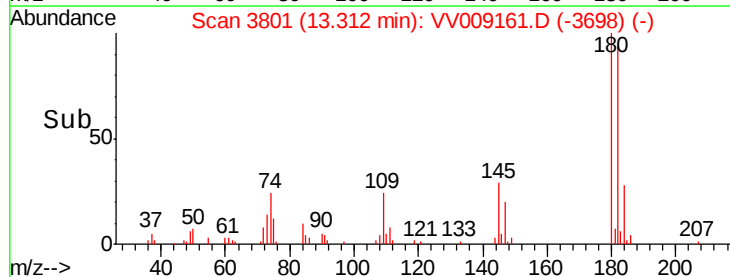
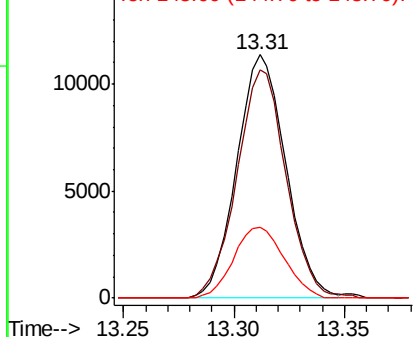


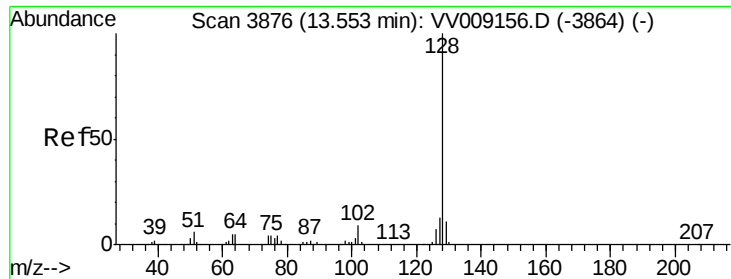
#68
 1,2,4-trichlorobenzene
 Concen: 4.932 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion:180 Resp: 17596
 Ion Ratio Lower Upper
 180 100
 182 94.1 76.2 114.4
 145 30.0 25.4 38.0



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





#69

Naphthalene

Concen: 4.321 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

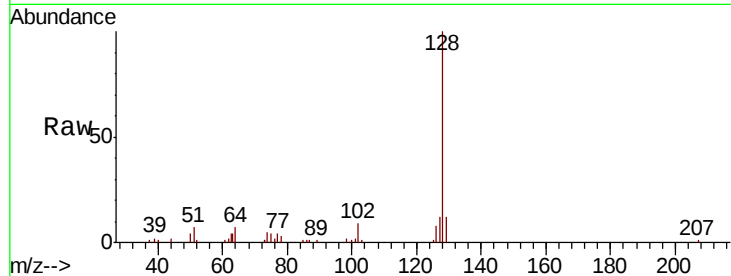
Tgt Ion:128 Resp: 31405

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.4

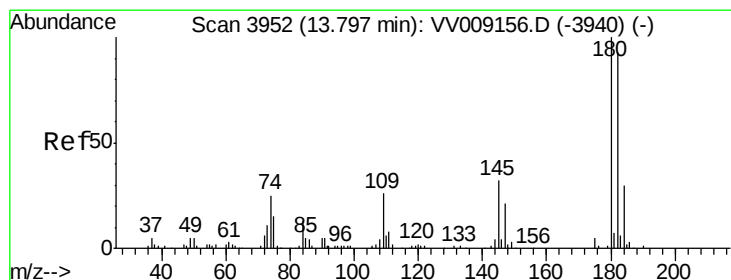
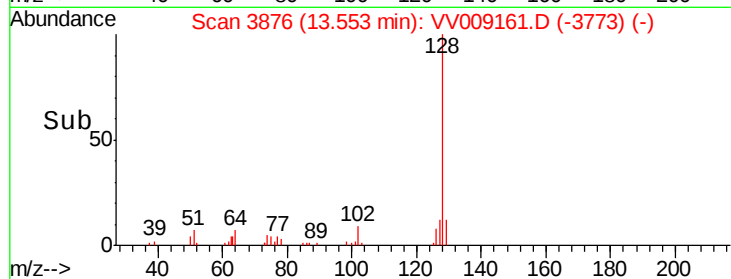
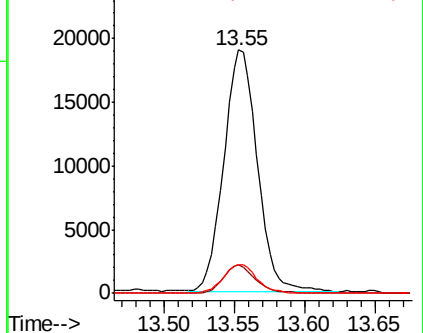
127 11.8 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.837 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

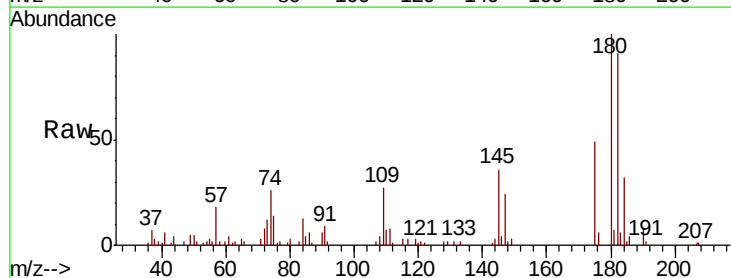
Tgt Ion:180 Resp: 15839

Ion Ratio Lower Upper

180 100

182 94.4 74.4 111.6

145 34.4 25.7 38.5



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

