

Data File : VV011138.D
Acq On : 30 May 2019 15:30
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

Quant Time: May 31 01:42:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis
QLast Update : Thu May 30 14:54:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	339905	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	333796	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	165090	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	101457	22.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.24%
7) Chloroethane-d5	1.56	69	81695	23.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.44%
10) 1,1-Dichloroethene-d2	2.12	63	210495	22.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.20%
20) 2-Butanone-d5	3.94	46	83404	49.62	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.24%
24) Chloroform-d	4.40	84	194467	23.41	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.64%
26) 1,2-Dichloroethane-d4	5.08	65	134530	24.85	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.40%
29) Benzene-d6	5.09	84	437567	24.14	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.56%
33) 1,2-Dichloropropane-d6	6.12	67	141652	24.39	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.56%
37) Toluene-d8	7.36	98	403246	23.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.32%
38) trans-1,3-Dichloropropene-	7.66	79	63940	24.33	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.32%
39) 2-Hexanone-d5	8.13	63	63921	48.42	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.84%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	128582	24.56	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.24%
61) 1,2-Dichlorobenzene-d4	11.67	152	150869	24.42	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	125537	22.871 ug/L	99
3) Chloromethane	1.25	50	129423	24.116 ug/L	100
5) Vinyl chloride	1.32	62	122234	22.846 ug/L	99
6) Bromomethane	1.51	94	69313	24.032 ug/L	98
8) Chloroethane	1.58	64	73839	23.853 ug/L	98
9) Trichlorofluoromethane	1.76	101	175248	22.766 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	91879	22.284 ug/L	99
12) 1,1-Dichloroethene	2.13	96	86615	22.678 ug/L	93
13) Acetone	2.19	43	86886	44.433 ug/L	98
14) Carbon disulfide	2.31	76	279088	22.753 ug/L	99
15) Methyl Acetate	2.46	43	64164	21.807 ug/L	98
16) Methylene chloride	2.53	84	119608	23.091 ug/L	98
17) Methyl tert-butyl Ether	2.81	73	312251	23.583 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	106114	22.809 ug/L	97
19) 1,1-Dichloroethane	3.23	63	213691	23.739 ug/L	100
21) 2-Butanone	4.02	43	107921	47.043 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	124737	24.006 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	55256	24.168	ug/L	97
25) Chloroform	4.42	83	236962	24.639	ug/L	99
27) 1,2-Dichloroethane	5.18	62	164927	24.490	ug/L	99
30) Cyclohexane	4.72	56	192896	21.610	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	174635	22.845	ug/L	98
32) Carbon tetrachloride	4.87	117	144287	22.264	ug/L	100
34) Benzene	5.14	78	462427	23.370	ug/L	100
35) Trichloroethene	5.96	95	117860	22.715	ug/L	99
36) Methylcyclohexane	6.17	83	188682	21.489	ug/L	99
40) 1,2-Dichloropropane	6.22	63	124203	23.878	ug/L	99
41) Bromodichloromethane	6.55	83	163567	24.142	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	190207	23.001	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	213222	45.123	ug/L	99
44) Toluene	7.43	91	502090	23.245	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	170827	24.202	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	95539	23.548	ug/L	98
47) Tetrachloroethene	8.02	164	85605	22.264	ug/L	98
49) 2-Hexanone	8.18	43	155202	45.586	ug/L	99
50) Dibromochloromethane	8.29	129	108997	23.773	ug/L	98
51) 1,2-Dibromoethane	8.40	107	92388	23.479	ug/L	100
52) Chlorobenzene	8.92	112	327609	23.694	ug/L	99
53) Ethylbenzene	9.05	91	575751	23.231	ug/L	99
54) m,p-Xylene	9.18	106	212419	23.042	ug/L	98
55) o-xylene	9.59	106	215500	23.769	ug/L	97
56) Styrene	9.60	104	372210	24.441	ug/L	99
57) Isopropylbenzene	9.97	105	560469	23.151	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	126340	22.916	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	96837	23.229	ug/L	100
62) Bromoform	9.77	173	60520	23.515	ug/L	100
63) 1,3-Dichlorobenzene	11.22	146	255607	23.901	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	256108	23.600	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	244564	24.154	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	22066	22.461	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	189678	23.728	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	154826	24.136	ug/L	98
69) Naphthalene	13.55	128	337039	25.558	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	146751	24.667	ug/L	99

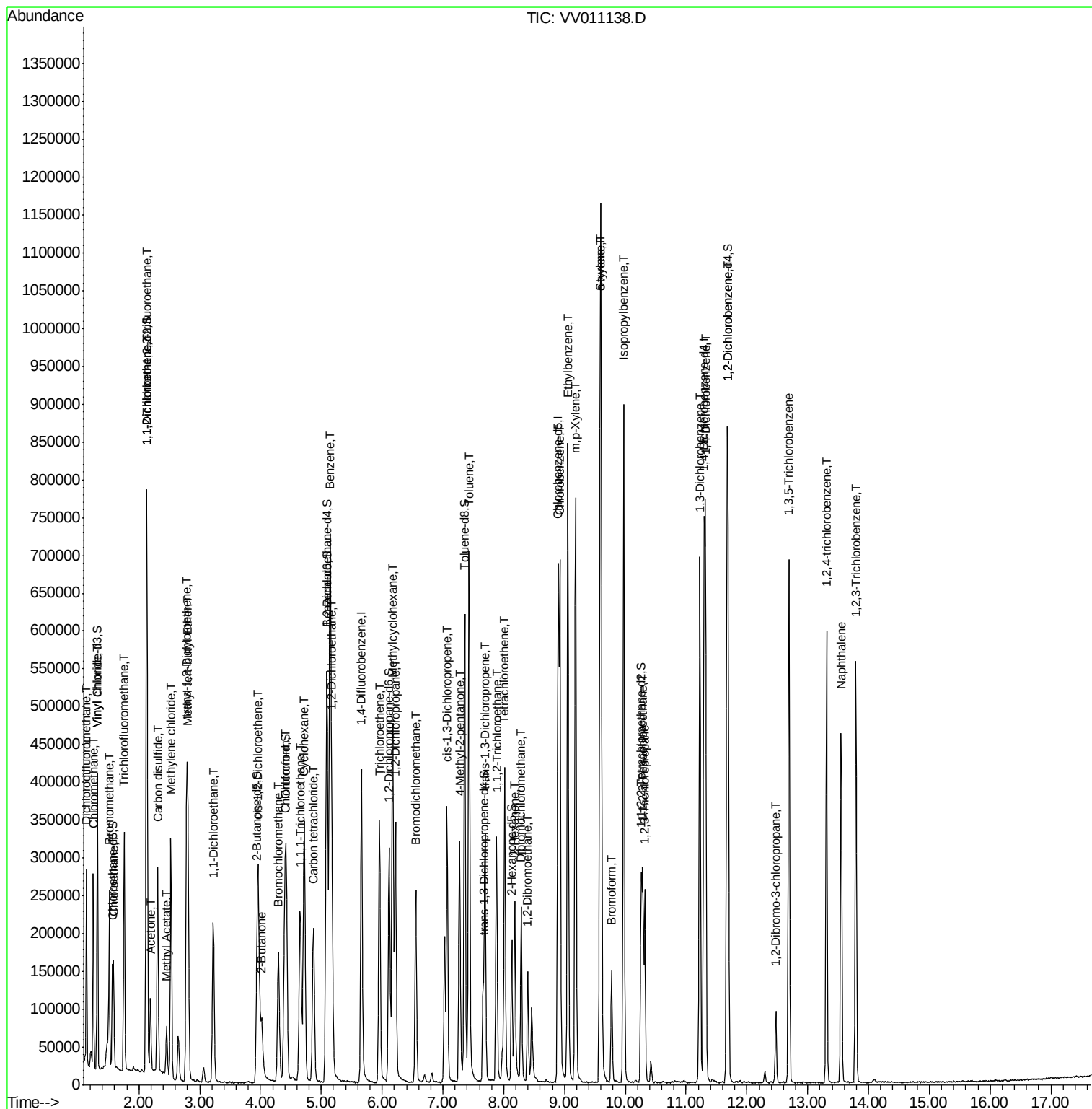
(#) = qualifier out of range (m) = manual integration (+) = signals summed

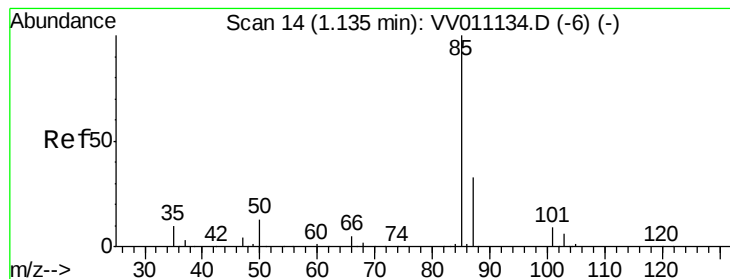
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#2

Dichlorodifluoromethane

Concen: 22.871 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

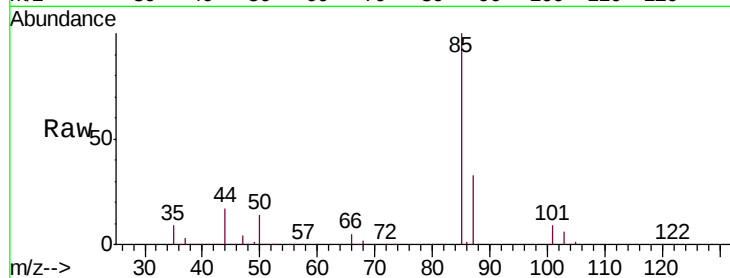
VSTD02579

Tgt Ion: 85 Resp: 125537

Ion Ratio Lower Upper

85 100

87 32.9 22.8 42.4



Abundance Ion 85.00 (84.70 to 85.70): VV011138.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV011138.D (-6) (-)

1.14

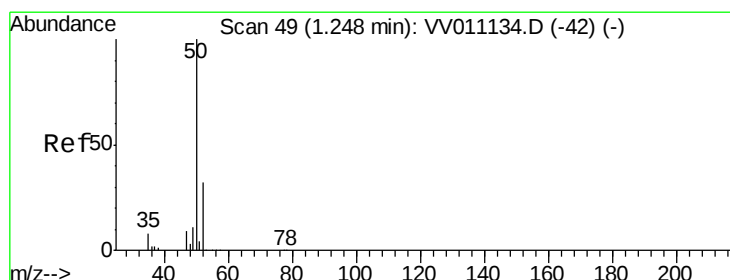
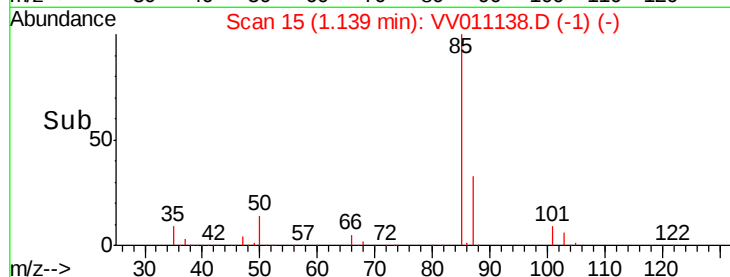
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 24.116 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV011138.D

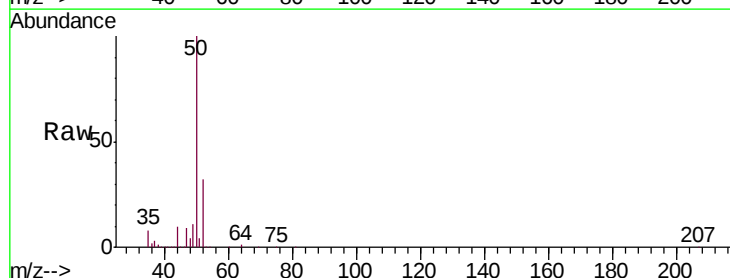
Acq: 30 May 2019 15:30

Tgt Ion: 50 Resp: 129423

Ion Ratio Lower Upper

50 100

52 32.2 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VV011138.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV011138.D (-1) (-)

1.25

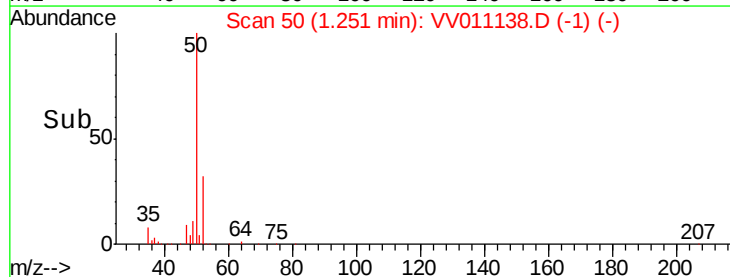
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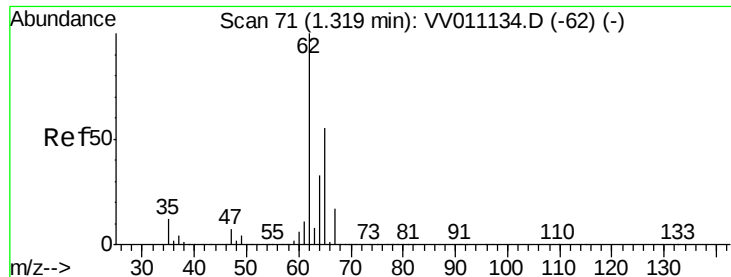
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 22.846 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

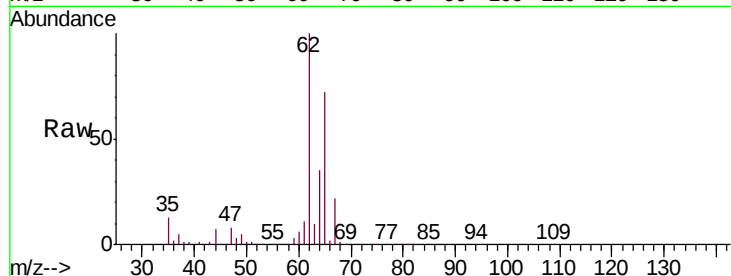
VSTD02579

Tgt Ion: 62 Resp: 122234

Ion Ratio Lower Upper

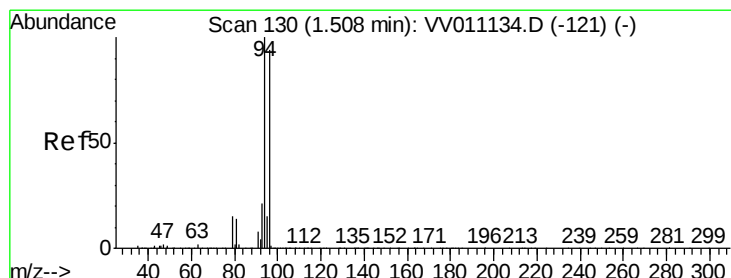
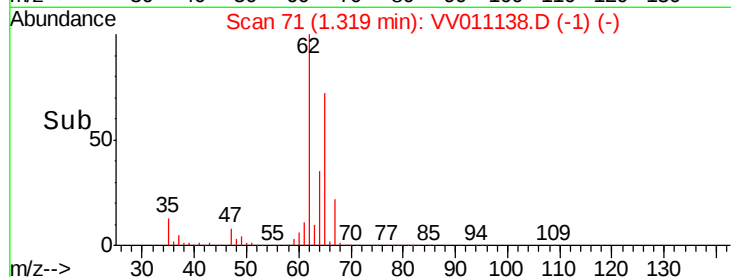
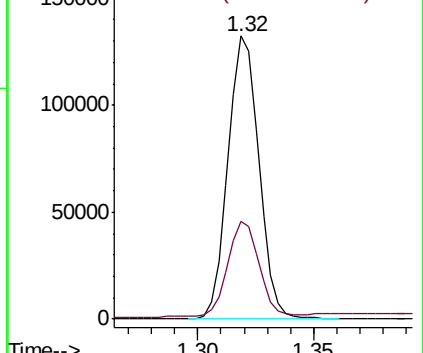
62 100

64 34.7 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 24.032 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV011138.D

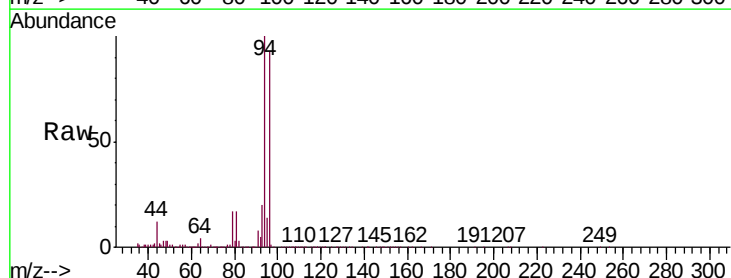
Acq: 30 May 2019 15:30

Tgt Ion: 94 Resp: 69313

Ion Ratio Lower Upper

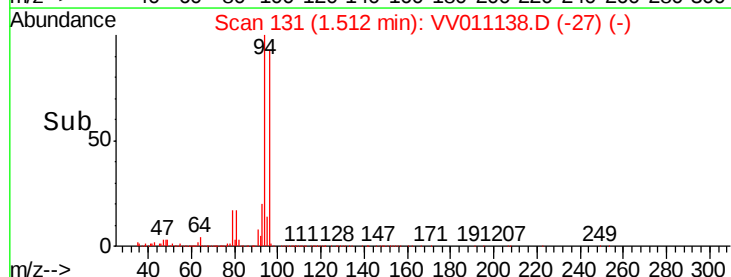
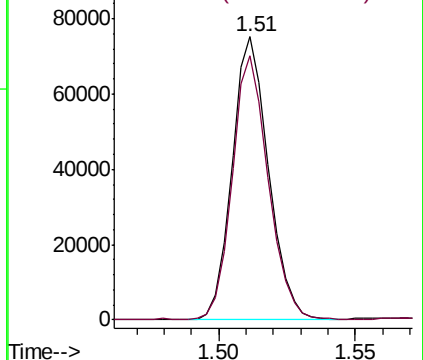
94 100

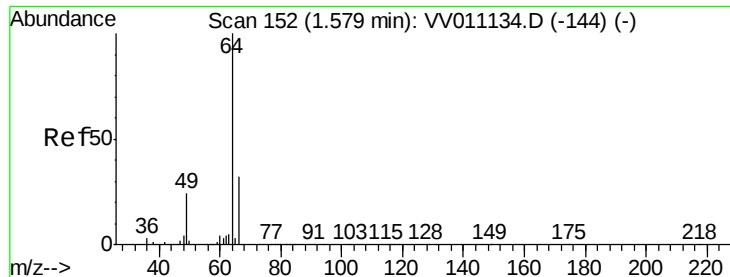
96 92.3 9.4 179.5



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 23.853 ug/L

RT: 1.58 min Scan# 153

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

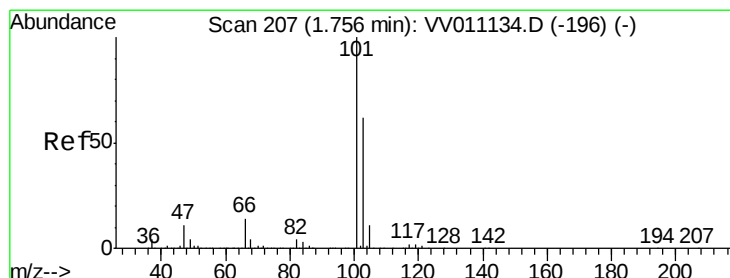
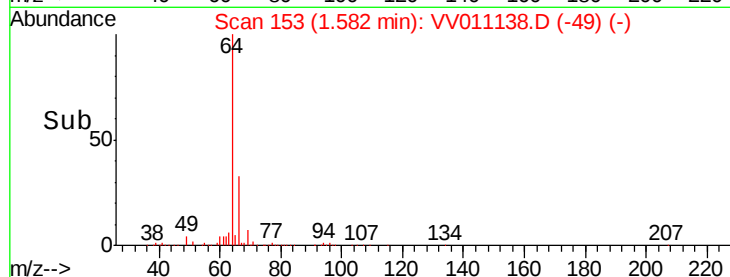
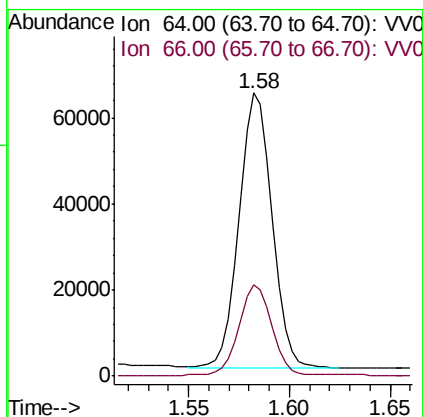
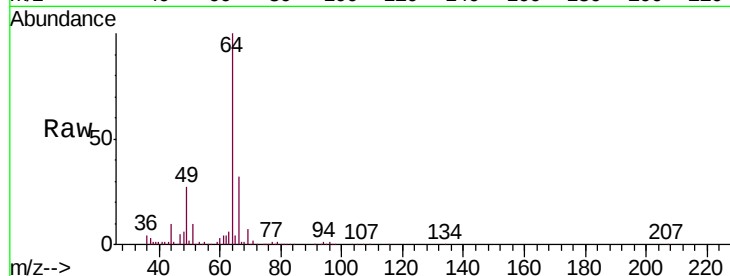
VSTD02579

Tgt Ion: 64 Resp: 73839

Ion Ratio Lower Upper

64 100

66 32.3 21.7 40.3



#9

Trichlorofluoromethane

Concen: 22.766 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV011138.D

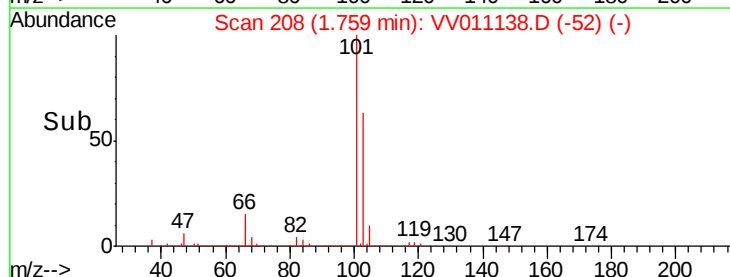
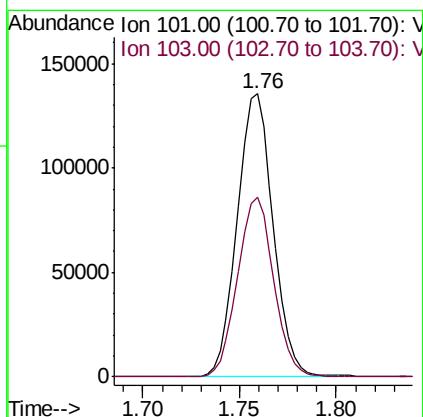
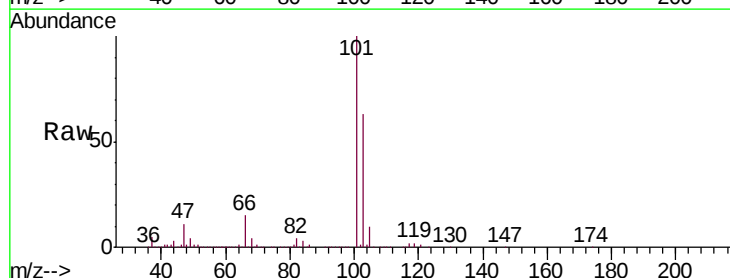
Acq: 30 May 2019 15:30

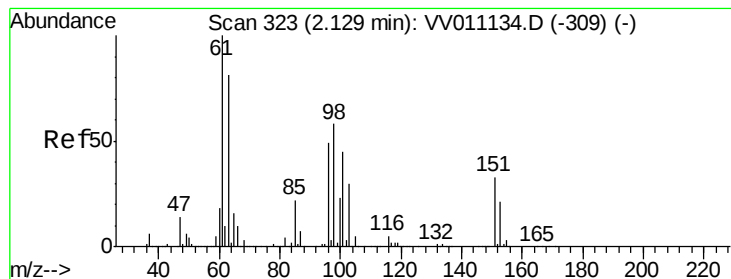
Tgt Ion: 101 Resp: 175248

Ion Ratio Lower Upper

101 100

103 64.1 44.4 82.4





#11

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

Concen: 22.284 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

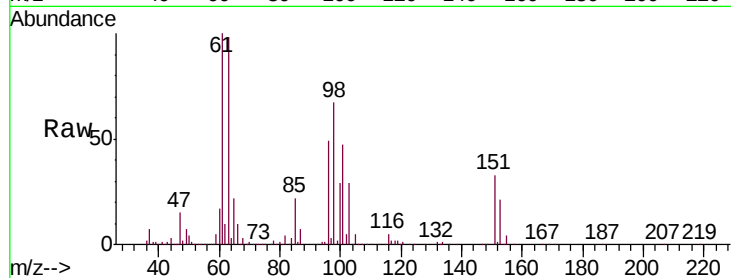
Tgt Ion: 101 Resp: 91879

Ion Ratio Lower Upper

101 100

85 46.4 37.4 56.2

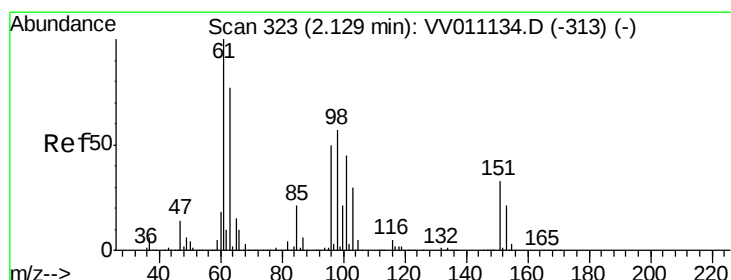
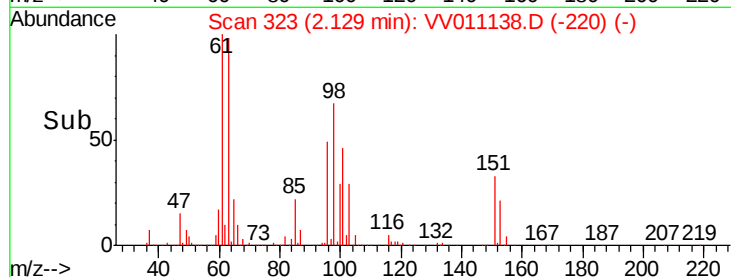
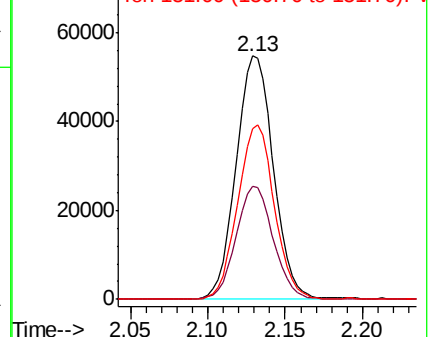
151 70.4 57.1 85.7



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: 22.678 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

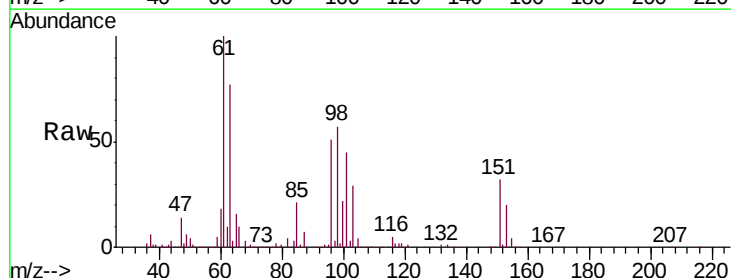
Tgt Ion: 96 Resp: 86615

Ion Ratio Lower Upper

96 100

61 195.7 141.6 263.0

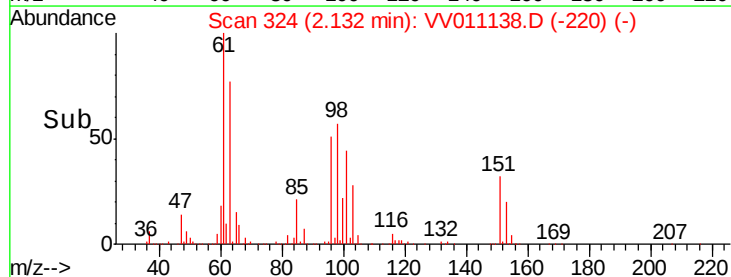
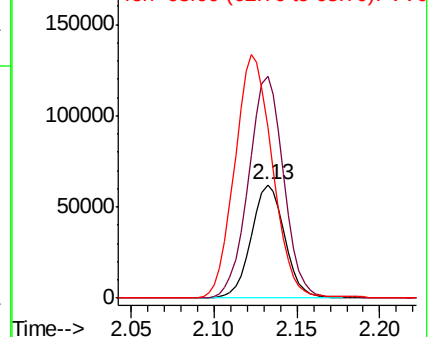
63 151.1 114.4 212.4

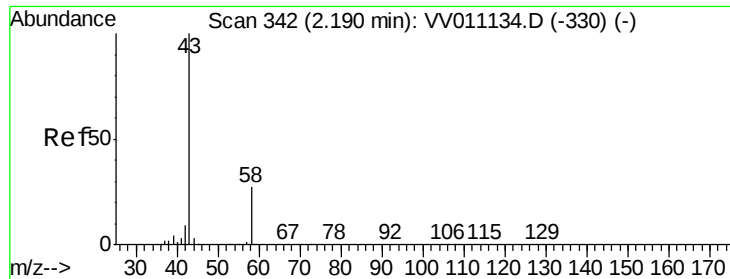


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 44.433 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

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Acq: 30 May 2019 15:30

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MSVOA_V

ClientSampleId :

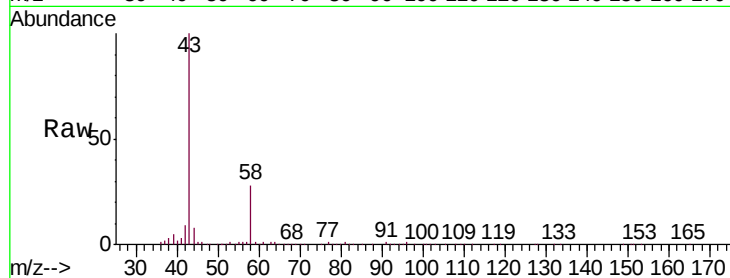
VSTD02579

Tgt Ion: 43 Resp: 86886

Ion Ratio Lower Upper

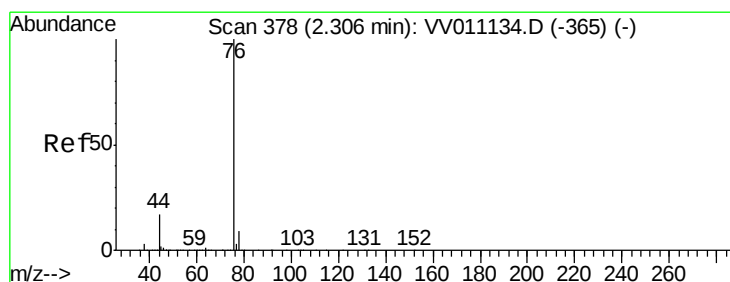
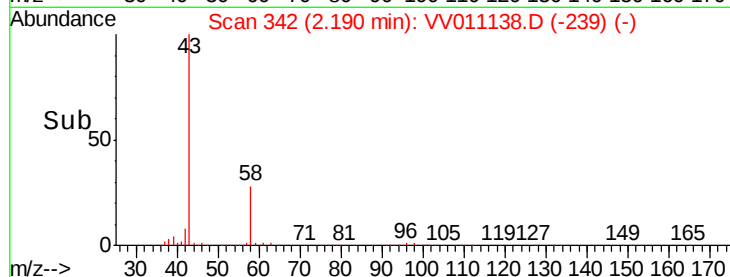
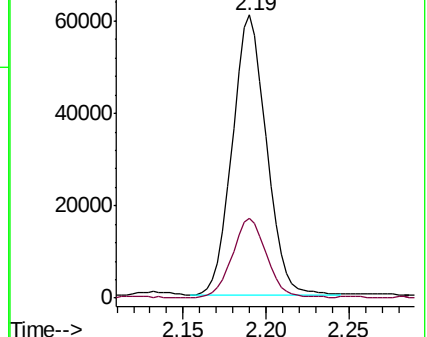
43 100

58 28.1 0.0 53.8



Abundance Ion 43.00 (42.70 to 43.70): VV011138.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV011138.D (-330) (-)



#14

Carbon disulfide

Concen: 22.753 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV011138.D

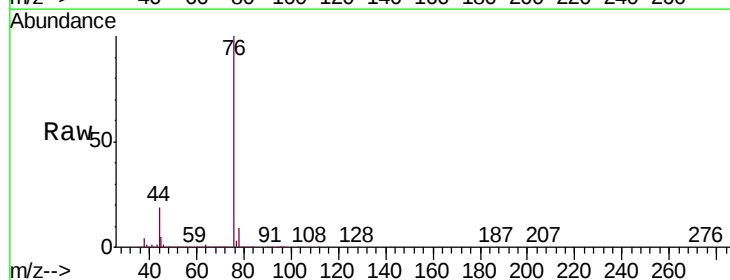
Acq: 30 May 2019 15:30

Tgt Ion: 76 Resp: 279088

Ion Ratio Lower Upper

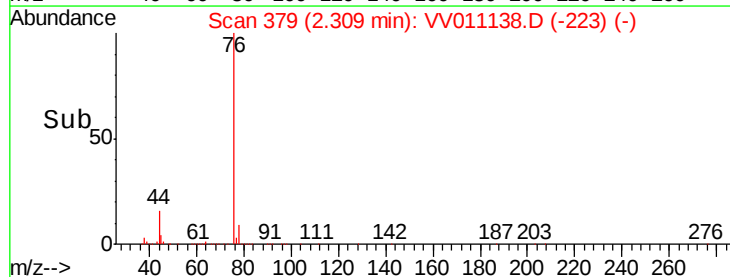
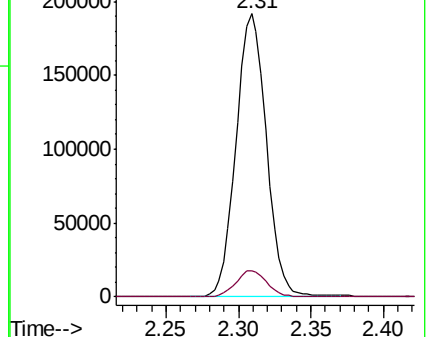
76 100

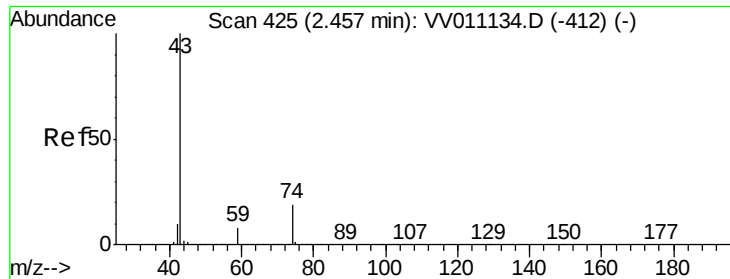
78 9.4 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV011138.D (-365) (-)

Ion 78.00 (77.70 to 78.70): VV011138.D (-365) (-)

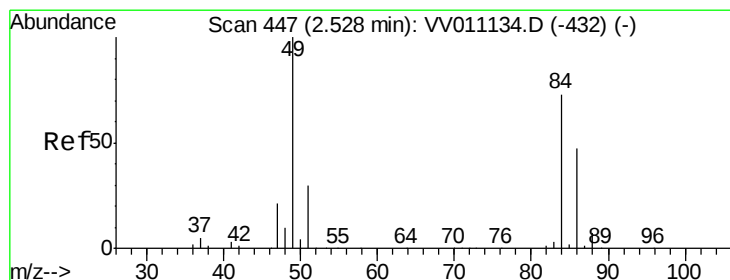
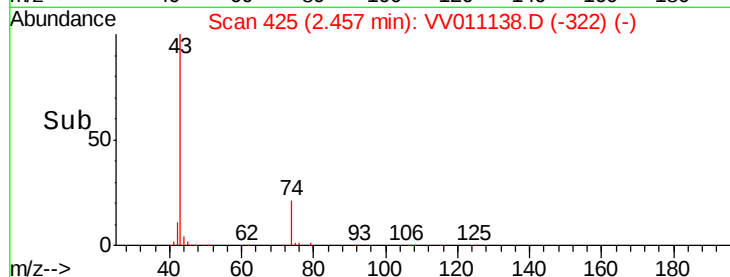
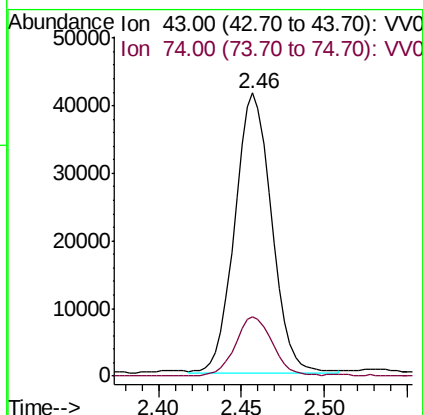
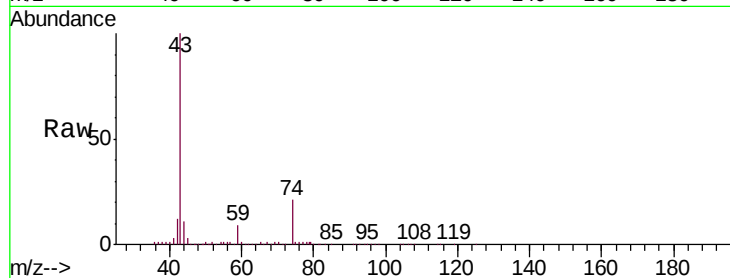




#15
Methyl Acetate
Concen: 21.807 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

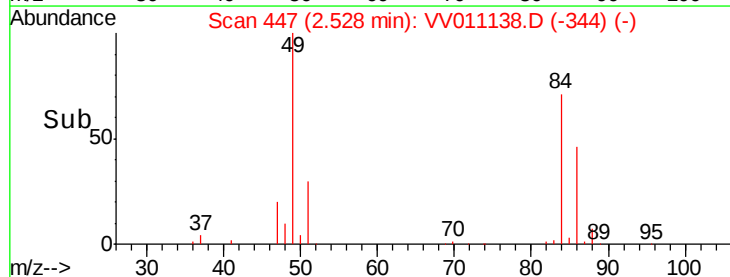
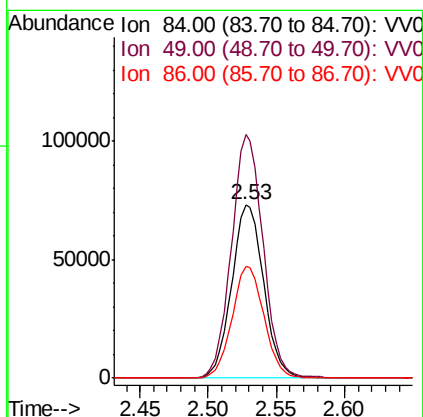
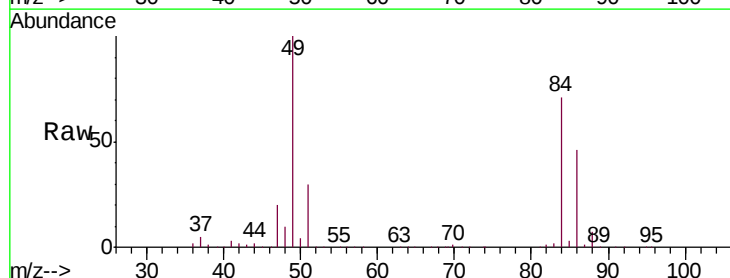
Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

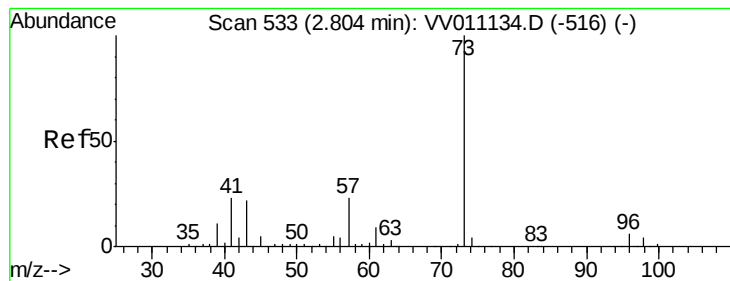
Tgt Ion: 43 Resp: 64164
Ion Ratio Lower Upper
43 100
74 21.1 16.2 24.4



#16
Methylene chloride
Concen: 23.091 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Tgt Ion: 84 Resp: 119608
Ion Ratio Lower Upper
84 100
49 140.5 96.1 178.5
86 64.7 45.0 83.6





#17

Methyl tert-butyl Ether

Concen: 23.583 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

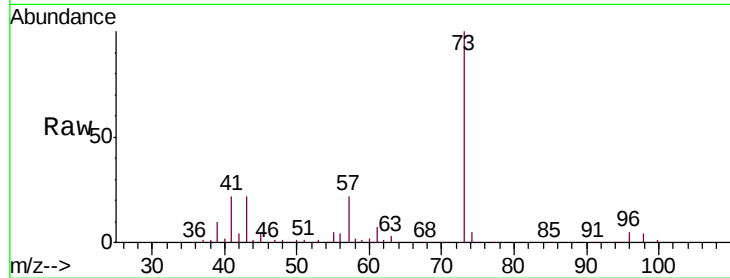
Tgt Ion: 73 Resp: 312251

Ion Ratio Lower Upper

73 100

43 22.1 17.5 26.3

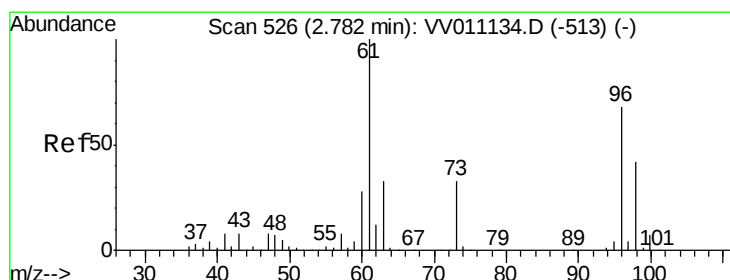
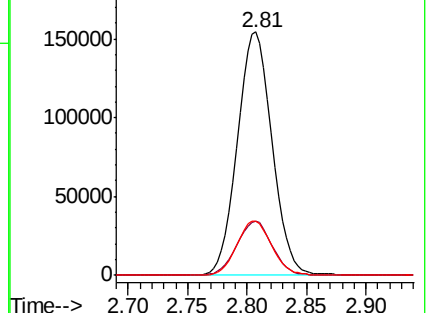
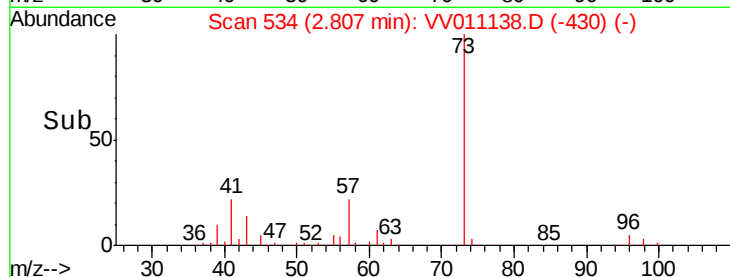
57 22.3 18.2 27.4



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: 22.809 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

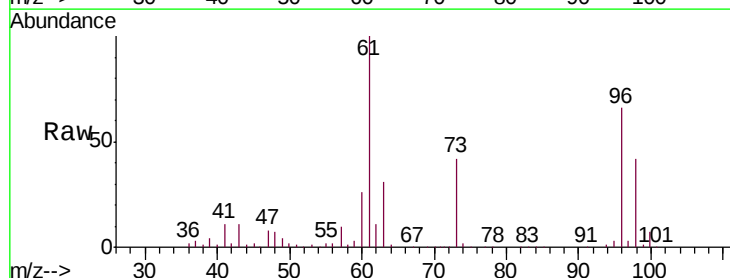
Tgt Ion: 96 Resp: 106114

Ion Ratio Lower Upper

96 100

61 150.8 102.6 190.5

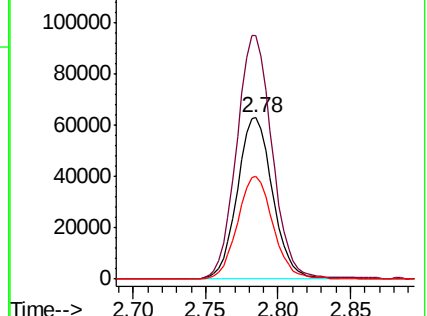
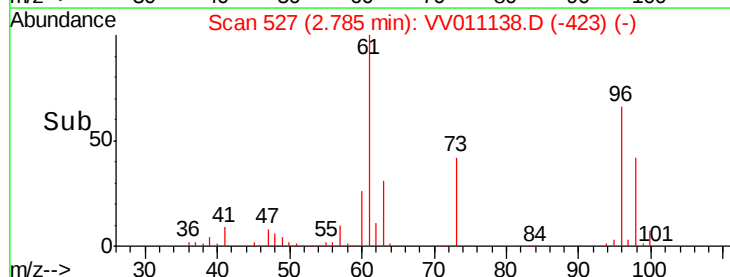
98 64.0 43.3 80.3

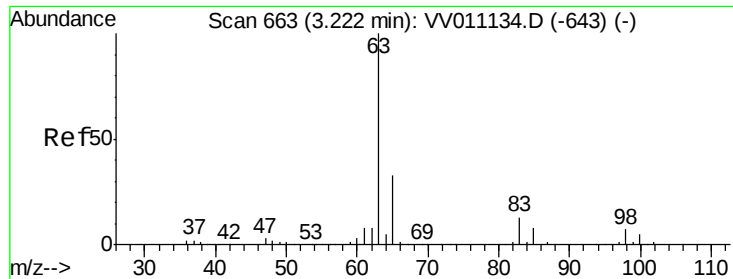


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 23.739 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

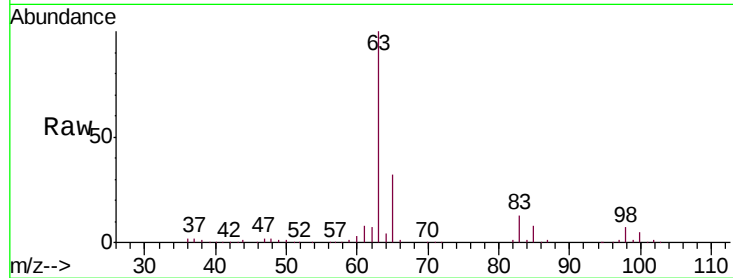
Tgt Ion: 63 Resp: 213691

Ion Ratio Lower Upper

63 100

65 32.3 22.7 42.3

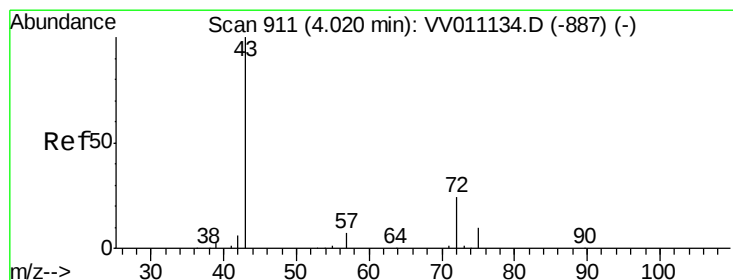
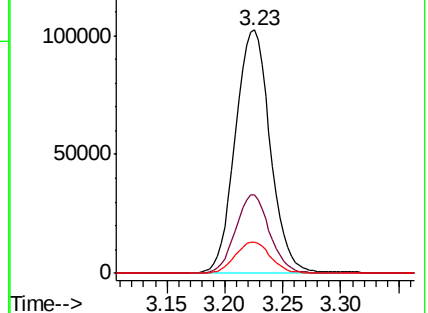
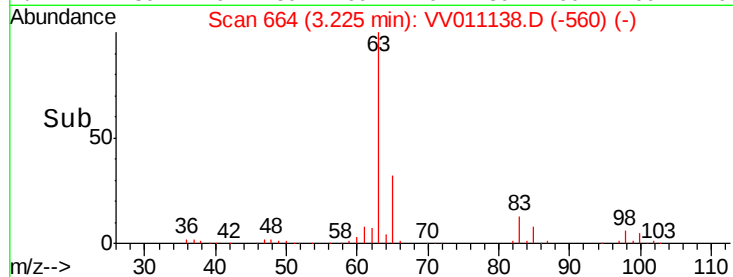
83 13.0 9.2 17.0



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#21

2-Butanone

Concen: 47.043 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.00 min

Lab File: VV011138.D

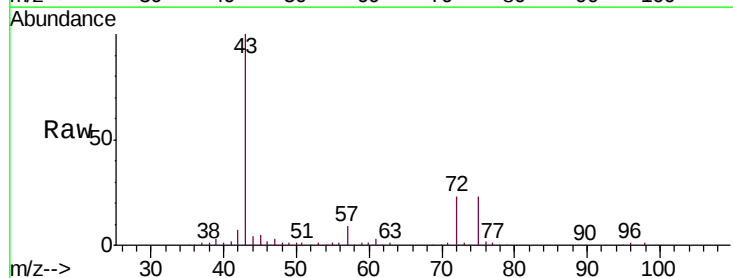
Acq: 30 May 2019 15:30

Tgt Ion: 43 Resp: 107921

Ion Ratio Lower Upper

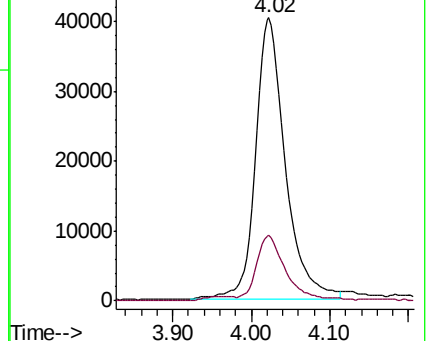
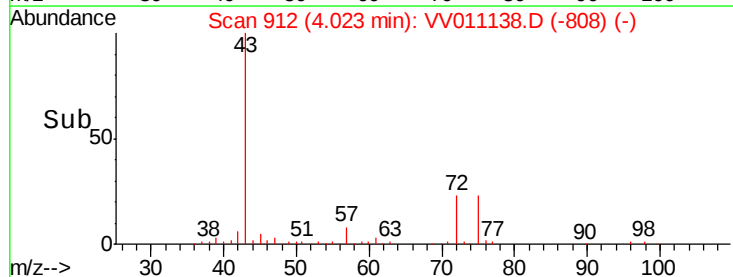
43 100

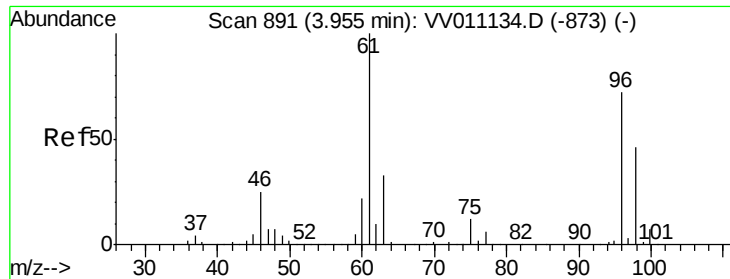
72 21.4 11.1 33.3



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



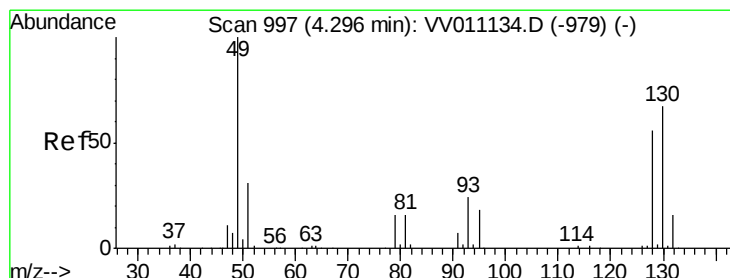
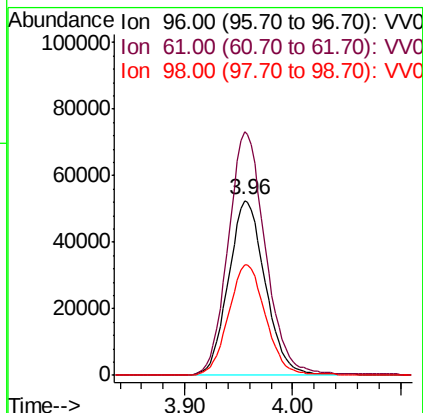
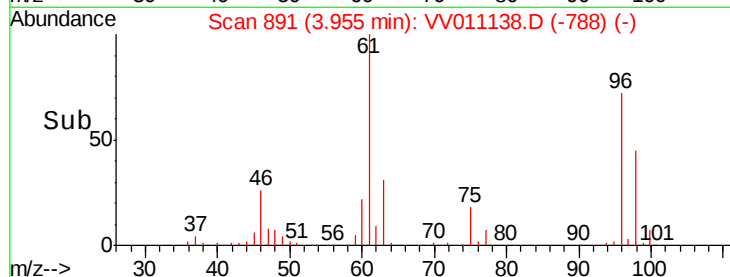
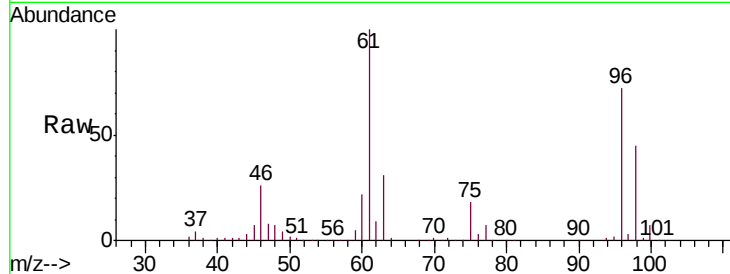


#22

cis-1,2-Dichloroethene
Concen: 24.006 ug/L
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

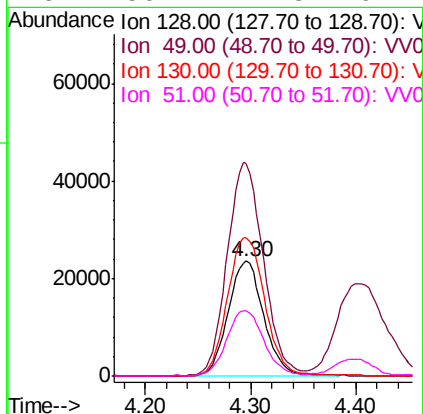
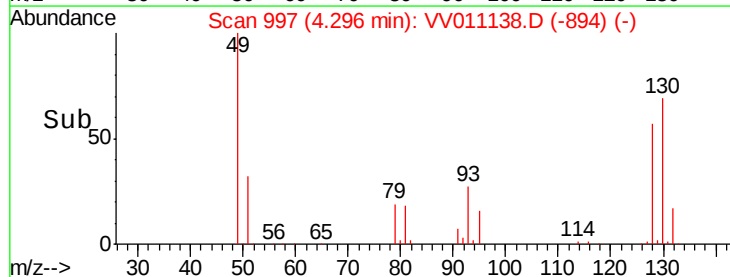
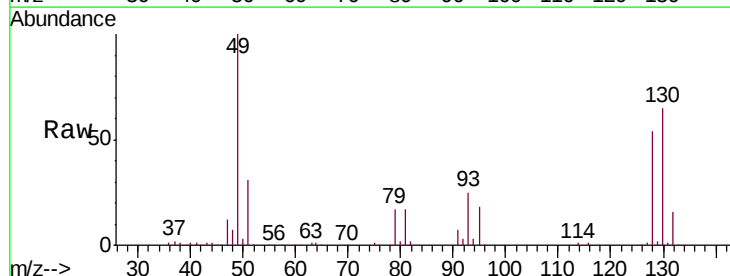
Tgt Ion: 96 Resp: 124737
Ion Ratio Lower Upper
96 100
61 139.5 97.4 181.0
98 63.3 45.0 83.6

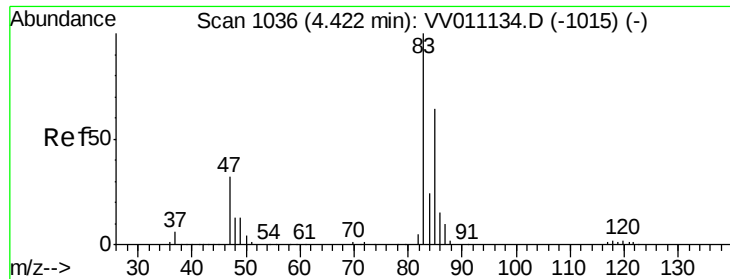


#23

Bromochloromethane
Concen: 24.168 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Tgt Ion: 128 Resp: 55256
Ion Ratio Lower Upper
128 100
49 184.7 125.4 233.0
130 120.3 83.3 154.7
51 56.7 44.8 67.2

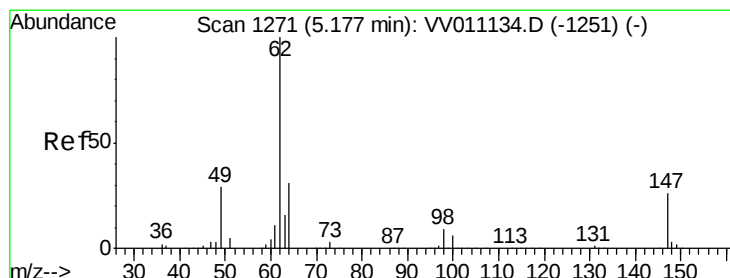
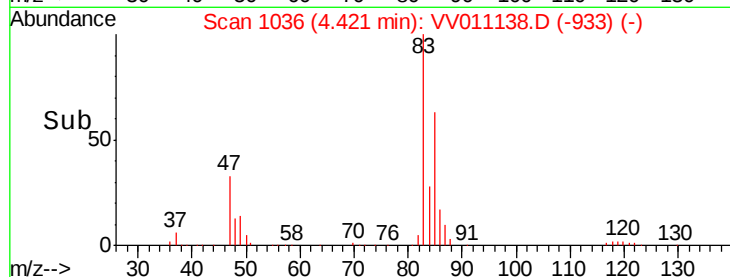
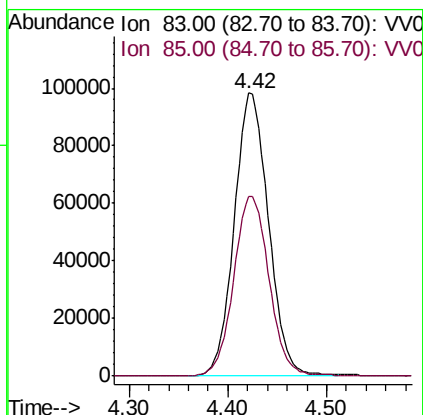
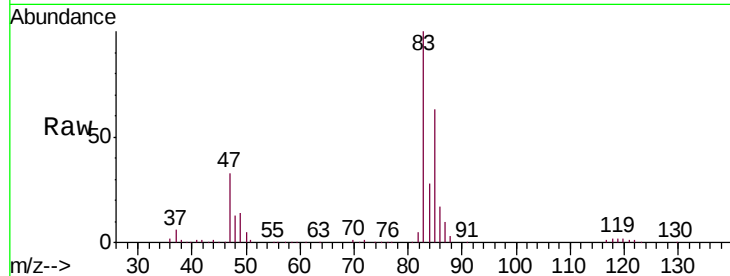




#25
Chloroform
Concen: 24.639 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

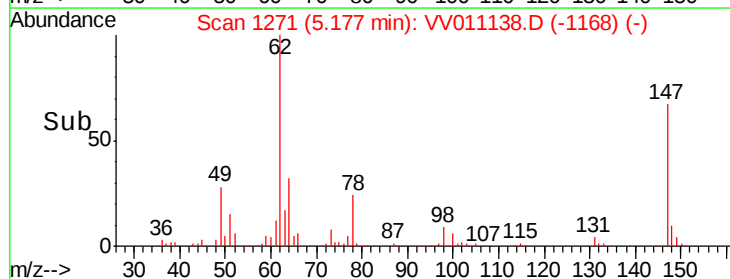
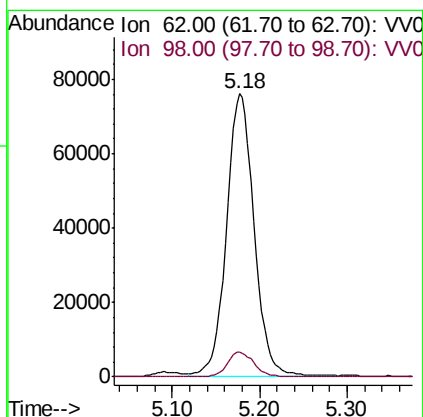
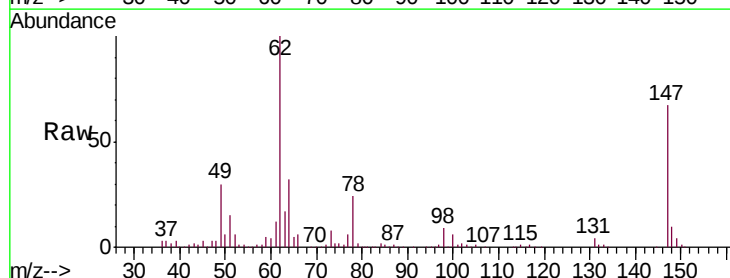
Instrument :
MSVOA_V
ClientSampled :
VSTD02579

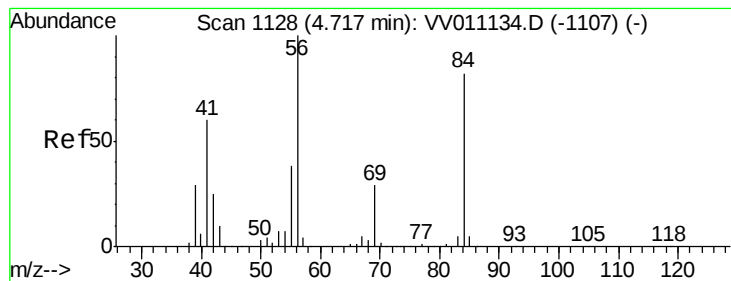
Tgt Ion: 83 Resp: 236962
Ion Ratio Lower Upper
83 100
85 65.9 45.6 84.6



#27
1,2-Dichloroethane
Concen: 24.490 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Tgt Ion: 62 Resp: 164927
Ion Ratio Lower Upper
62 100
98 8.8 7.4 11.0





#30

Cyclohexane

Concen: 21.610 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

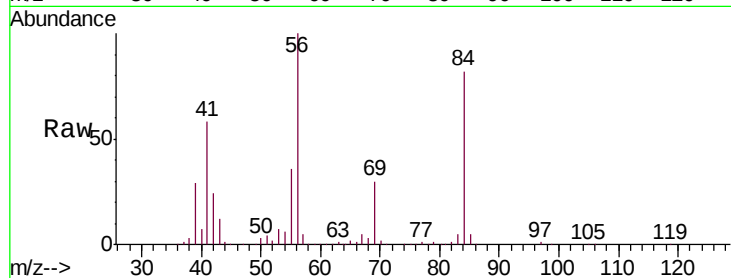
Tgt Ion: 56 Resp: 192896

Ion Ratio Lower Upper

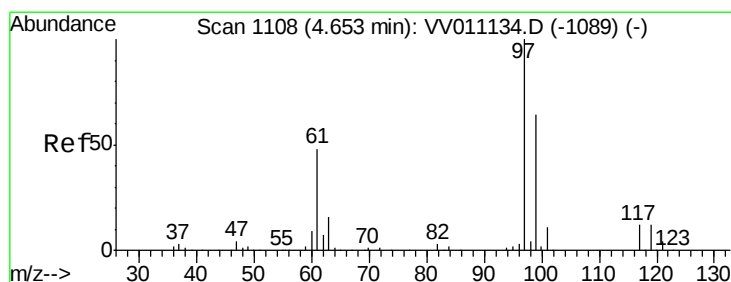
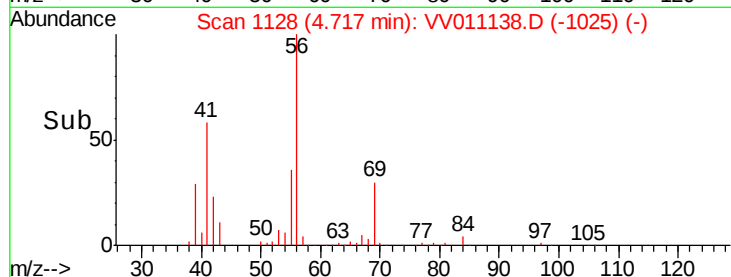
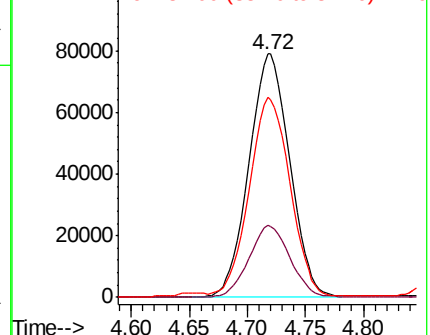
56 100

69 29.6 23.4 35.0

84 83.1 65.8 98.8



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 22.845 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

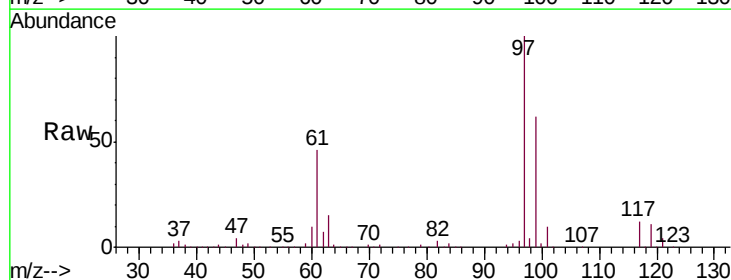
Tgt Ion: 97 Resp: 174635

Ion Ratio Lower Upper

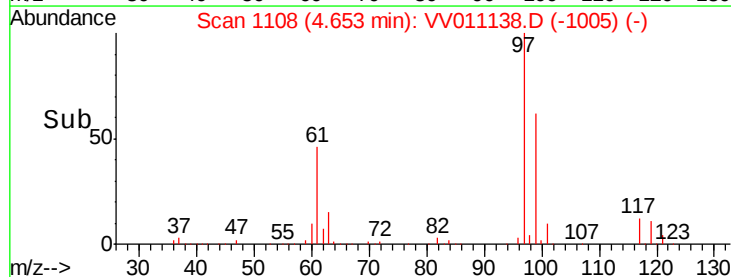
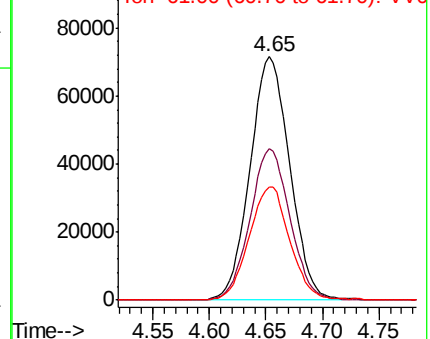
97 100

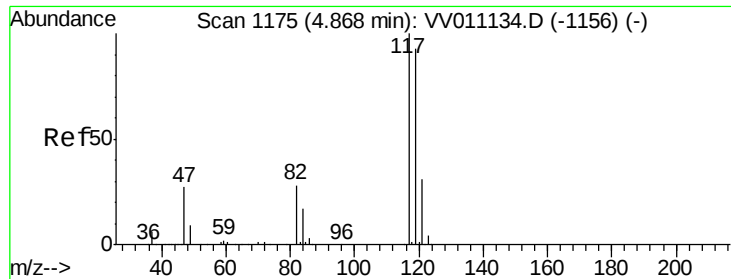
99 62.6 51.3 76.9

61 47.4 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 22.264 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

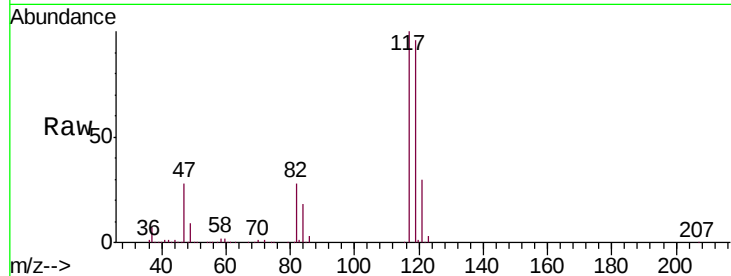
VSTD02579

Tgt Ion:117 Resp: 144287

Ion Ratio Lower Upper

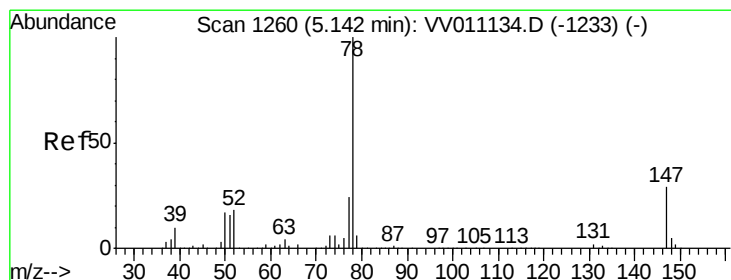
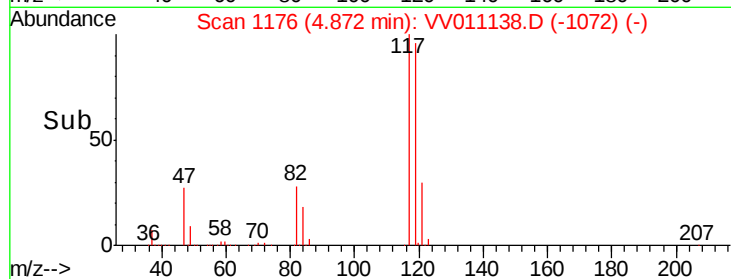
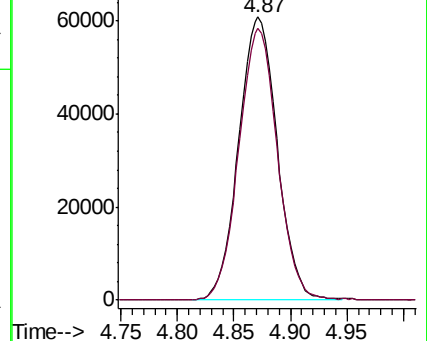
117 100

119 95.7 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.370 ug/L

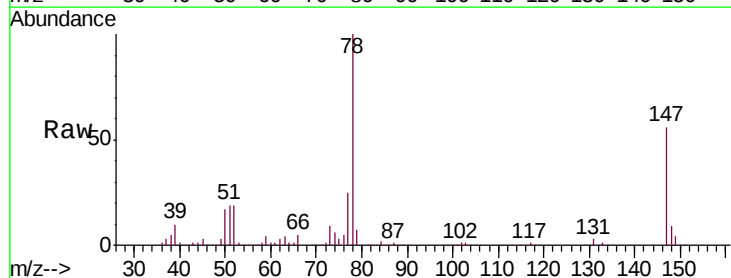
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

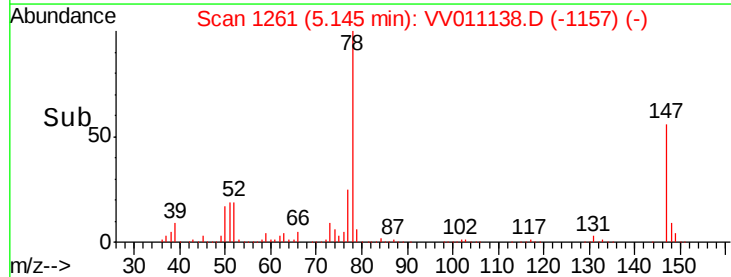
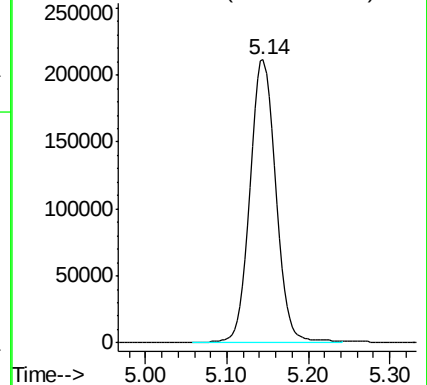
Lab File: VV011138.D

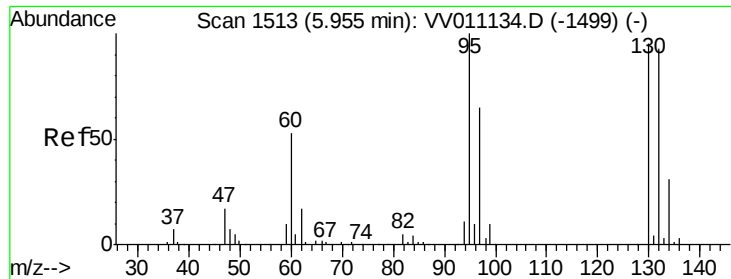
Acq: 30 May 2019 15:30

Tgt Ion: 78 Resp: 462427



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 22.715 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

Tgt Ion: 95 Resp: 117860

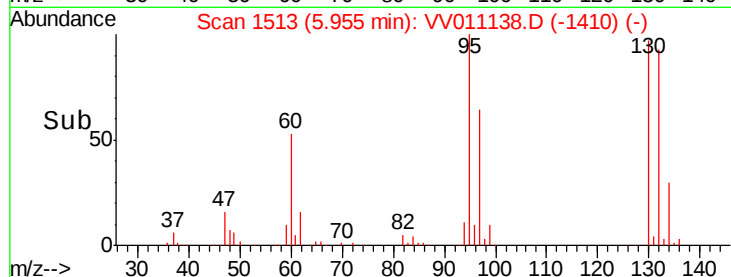
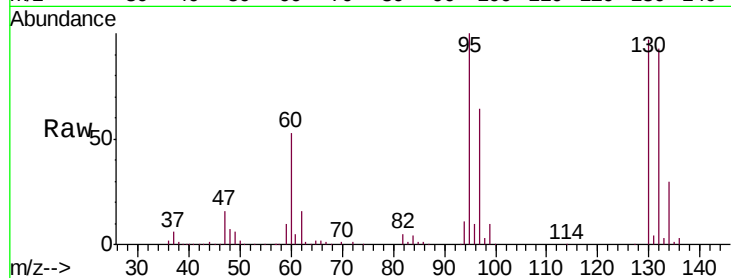
Ion Ratio Lower Upper

95 100

97 64.2 44.4 82.5

132 93.6 66.0 122.6

130 97.1 67.4 125.2

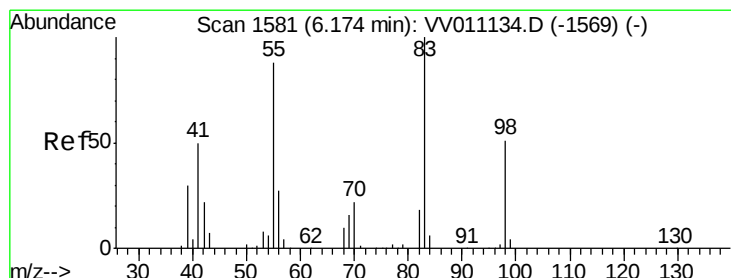
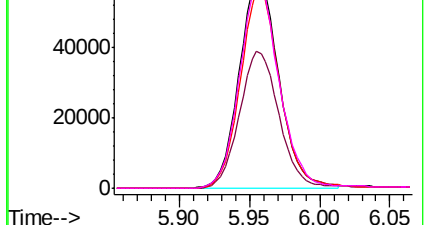


Abundance Ion 95.00 (94.70 to 95.70): VV011138.D (-1410) (-)

Ion 97.00 (96.70 to 97.70): VV011138.D (-1410) (-)

Ion 132.00 (131.70 to 132.70): VV011138.D (-1410) (-)

Ion 130.00 (129.70 to 130.70): VV011138.D (-1410) (-)



#36

Methylcyclohexane

Concen: 21.489 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

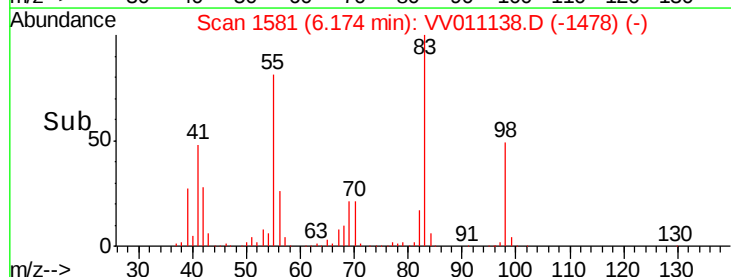
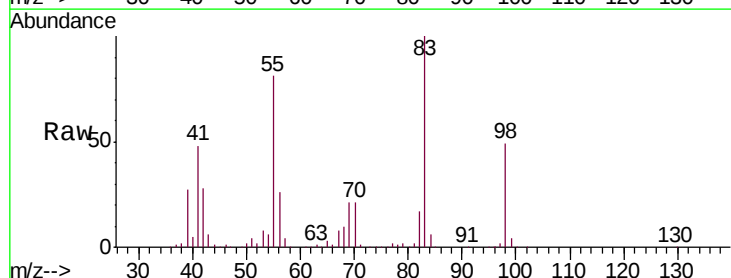
Tgt Ion: 83 Resp: 188682

Ion Ratio Lower Upper

83 100

55 83.2 66.4 99.6

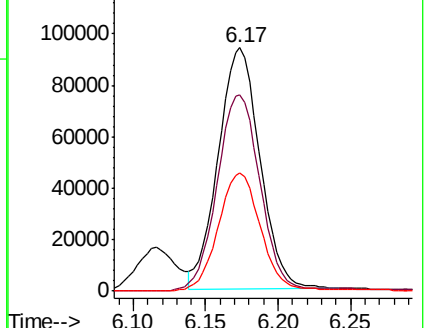
98 48.6 37.9 56.9

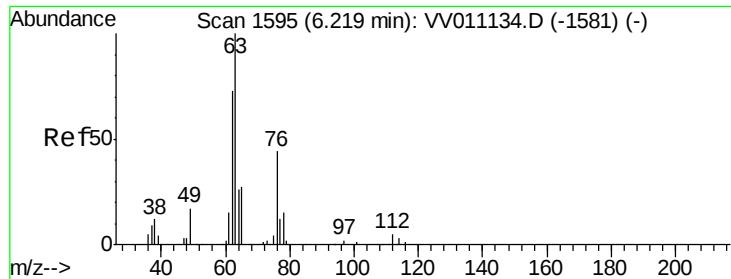


Abundance Ion 83.00 (82.70 to 83.70): VV011138.D (-1478) (-)

Ion 55.00 (54.70 to 55.70): VV011138.D (-1478) (-)

Ion 98.00 (97.70 to 98.70): VV011138.D (-1478) (-)

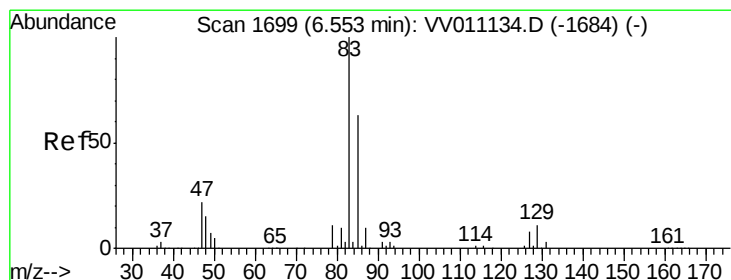
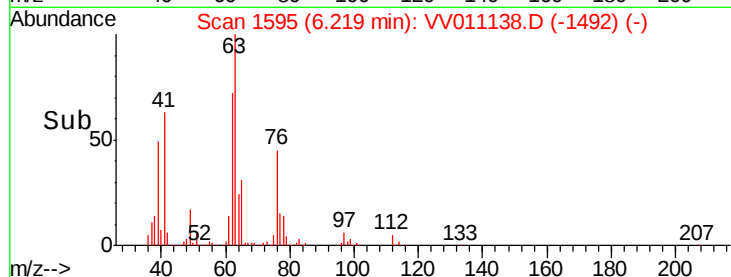
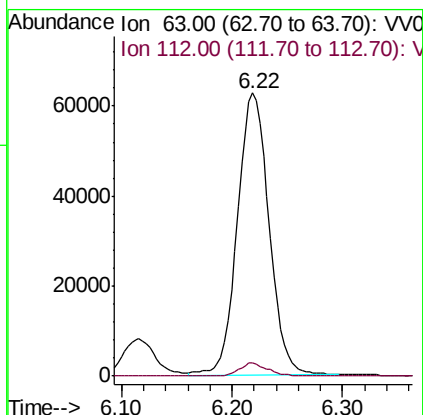
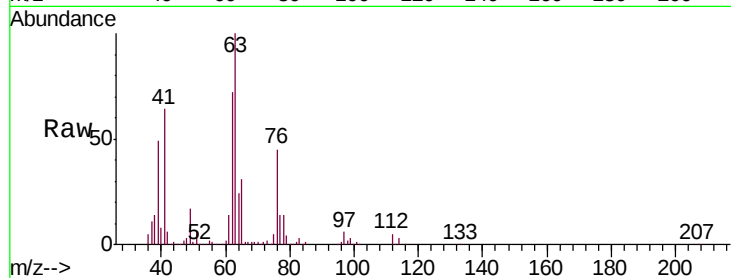




#40
 1,2-Dichloropropane
 Concen: 23.878 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV011138.D
 Acq: 30 May 2019 15:30

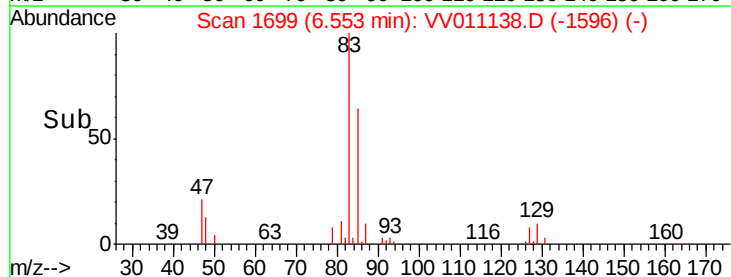
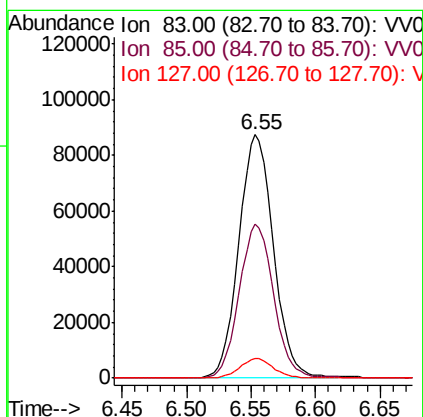
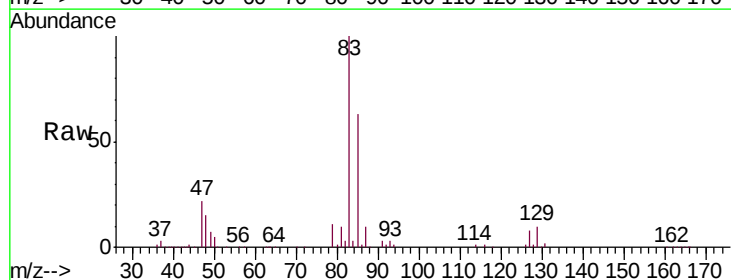
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02579

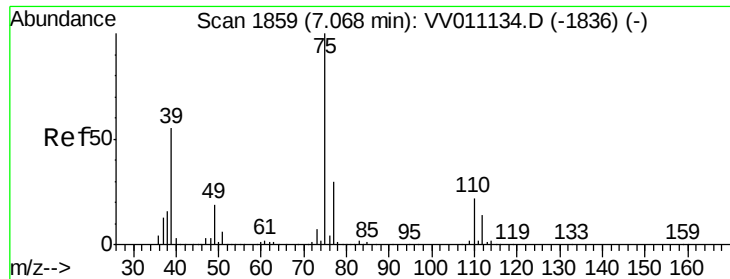
Tgt Ion: 63 Resp: 124203
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.6 5.4



#41
 Bromodichloromethane
 Concen: 24.142 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV011138.D
 Acq: 30 May 2019 15:30

Tgt Ion: 83 Resp: 163567
 Ion Ratio Lower Upper
 83 100
 85 63.1 44.1 81.9
 127 8.0 6.3 9.5



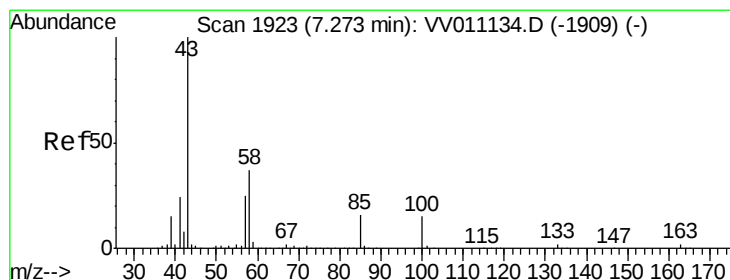
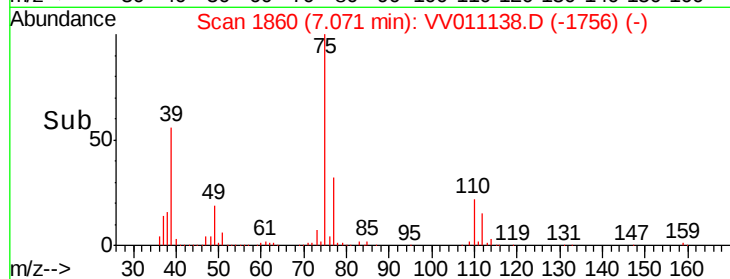
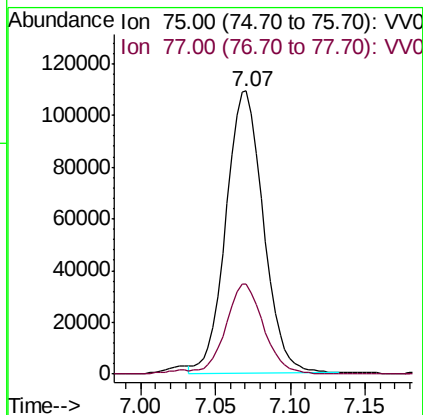
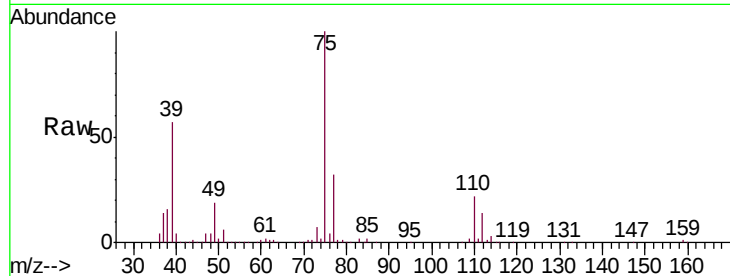


#42

cis-1,3-Dichloropropene
Concen: 23.001 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

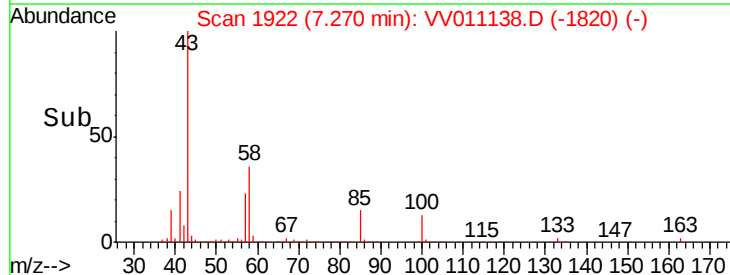
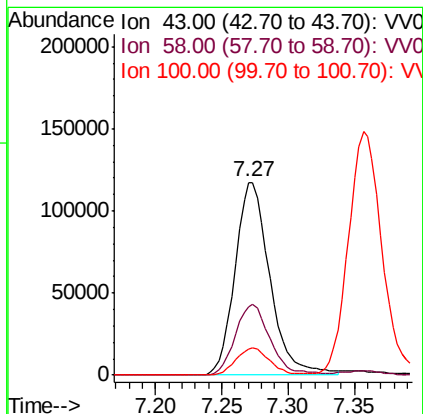
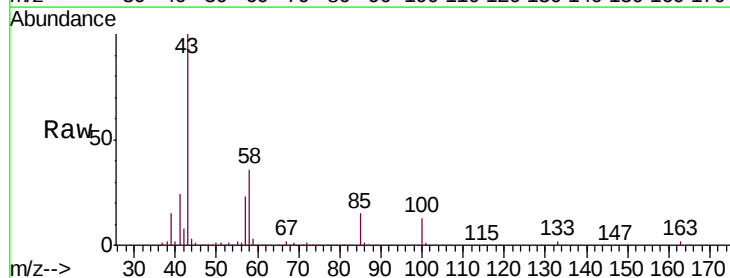
Tgt Ion: 75 Resp: 190207
Ion Ratio Lower Upper
75 100
77 31.7 21.3 39.6

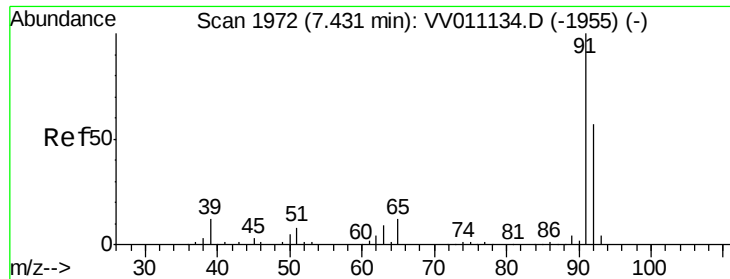


#43

4-Methyl-2-pentanone
Concen: 45.123 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Tgt Ion: 43 Resp: 213222
Ion Ratio Lower Upper
43 100
58 36.9 30.2 45.4
100 13.6 11.3 16.9





#44

Toluene

Concen: 23.245 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

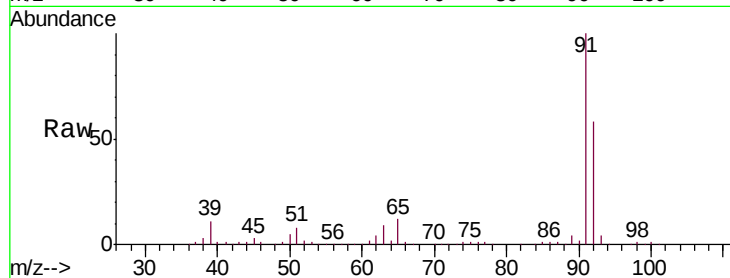
VSTD02579

Tgt Ion: 91 Resp: 502090

Ion Ratio Lower Upper

91 100

92 57.6 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VV011138.D (-1955) (-)

Ion 92.00 (91.70 to 92.70): VV011138.D (-1955) (-)

7.43

300000

250000

200000

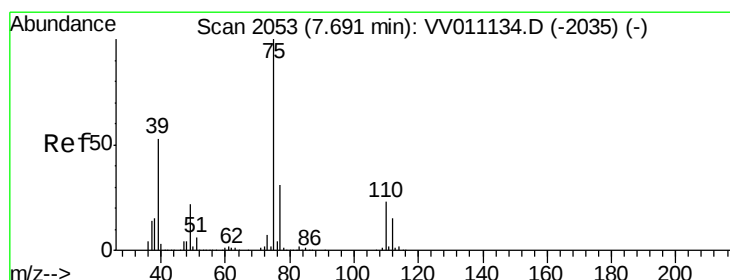
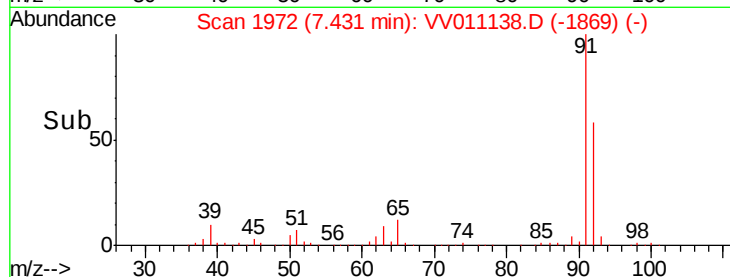
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.202 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011138.D

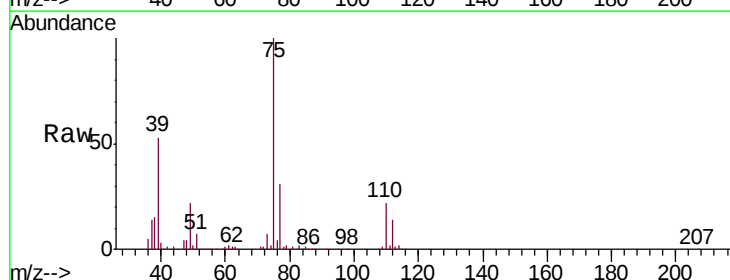
Acq: 30 May 2019 15:30

Tgt Ion: 75 Resp: 170827

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VV011138.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV011138.D (-2035) (-)

7.69

100000

80000

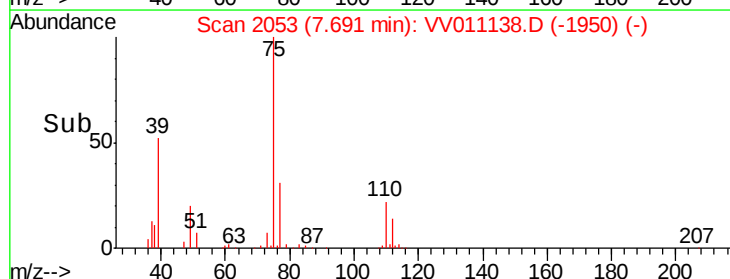
60000

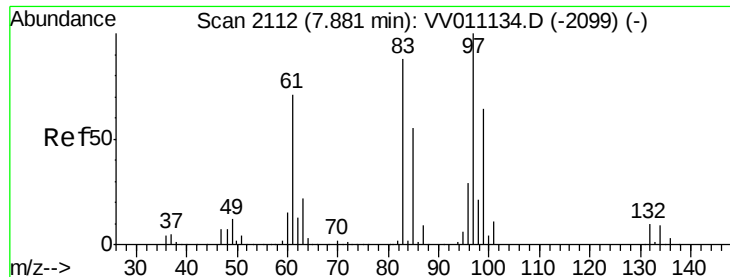
40000

20000

0

Time-->

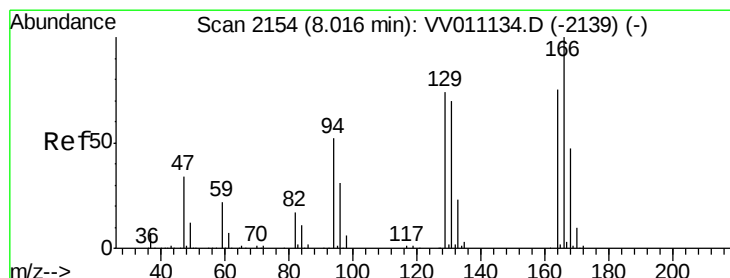
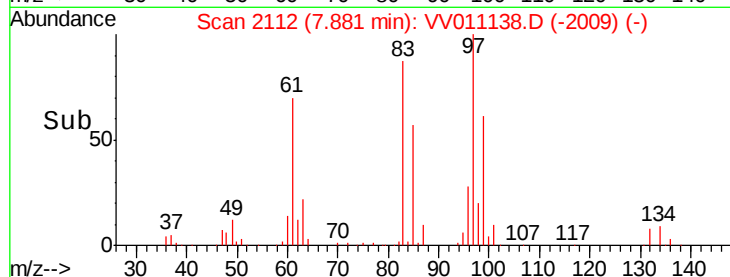
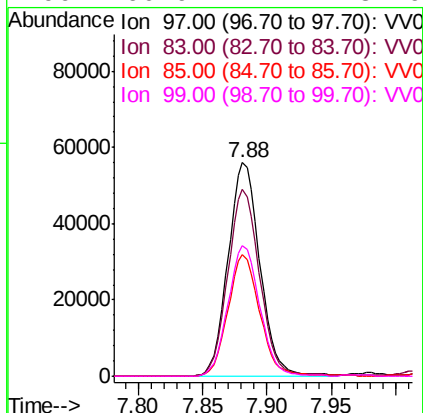
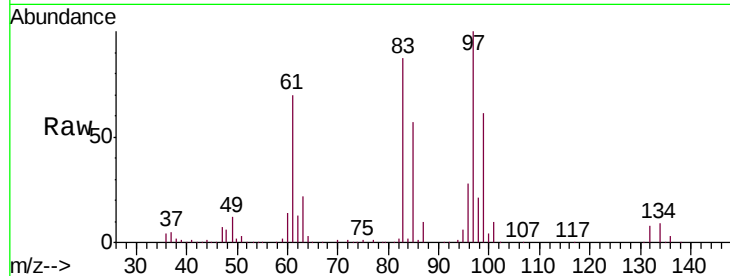




#46
 1,1,2-Trichloroethane
 Concen: 23.548 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011138.D
 Acq: 30 May 2019 15:30

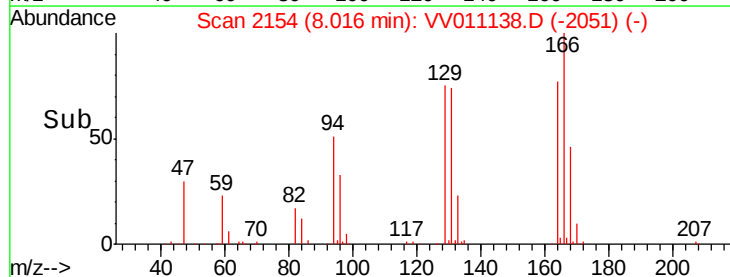
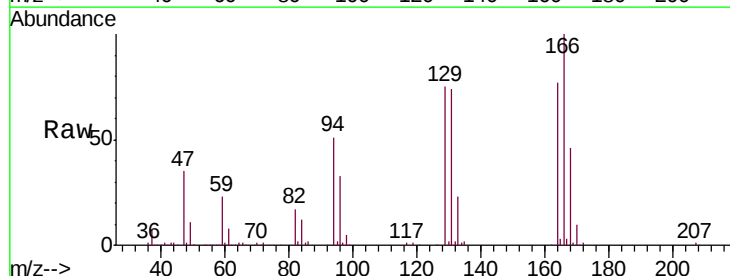
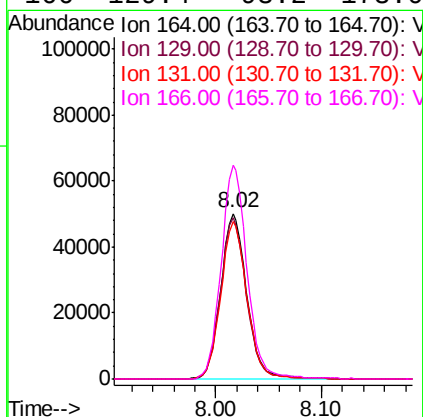
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02579

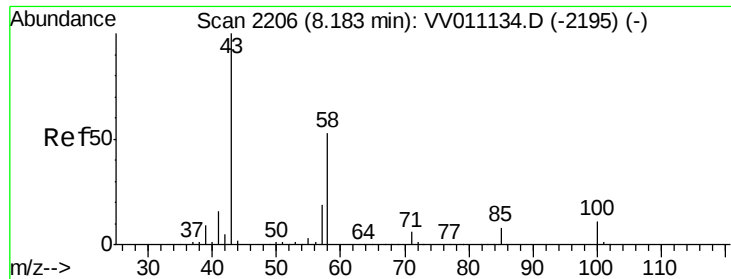
Tgt Ion: 97 Resp: 95539
 Ion Ratio Lower Upper
 97 100
 83 87.2 61.9 115.1
 85 56.9 38.6 71.8
 99 60.9 44.7 82.9



#47
 Tetrachloroethene
 Concen: 22.264 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011138.D
 Acq: 30 May 2019 15:30

Tgt Ion: 164 Resp: 85605
 Ion Ratio Lower Upper
 164 100
 129 97.4 69.1 128.3
 131 95.1 65.5 121.6
 166 129.4 93.2 173.0

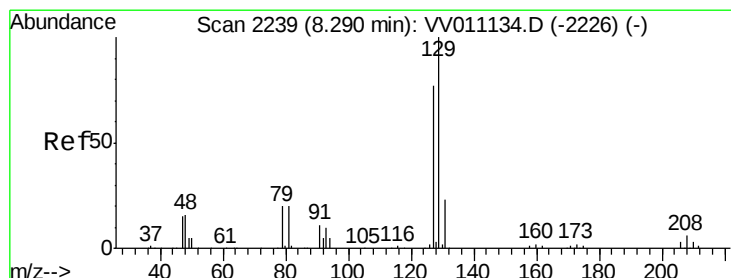
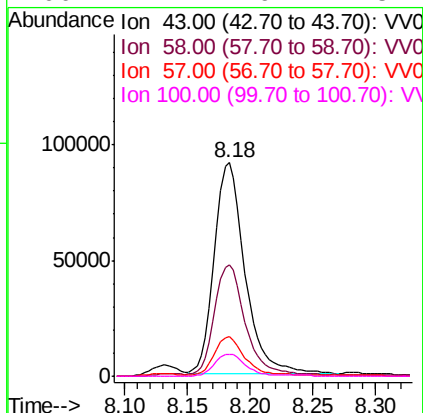
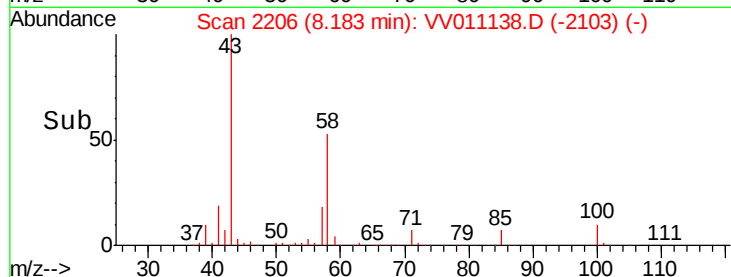
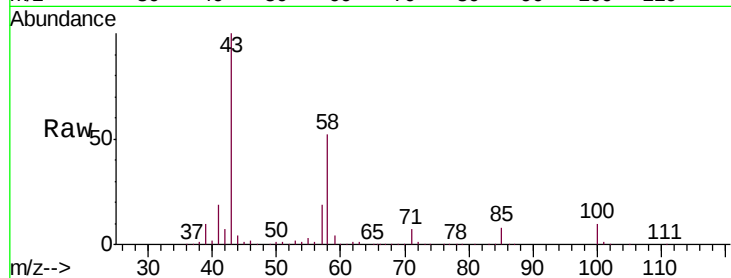




#49
2-Hexanone
Concen: 45.586 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

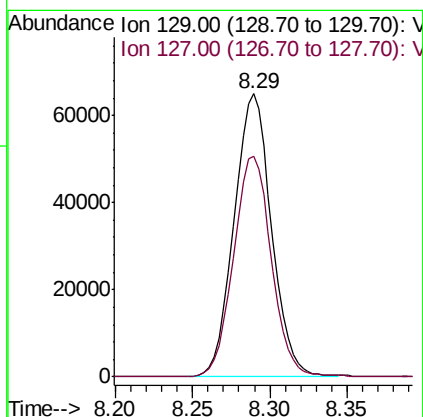
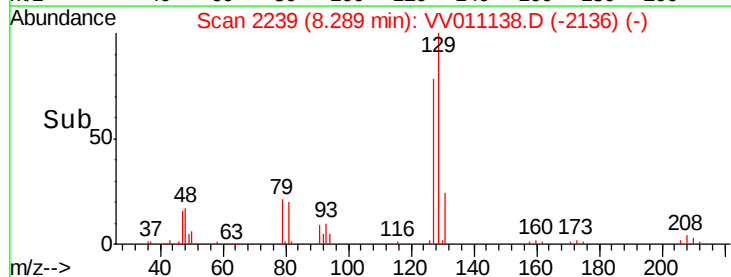
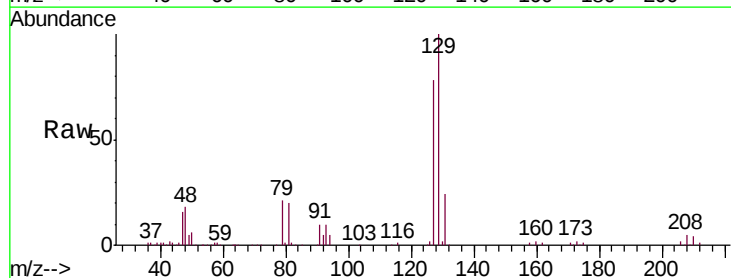
Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

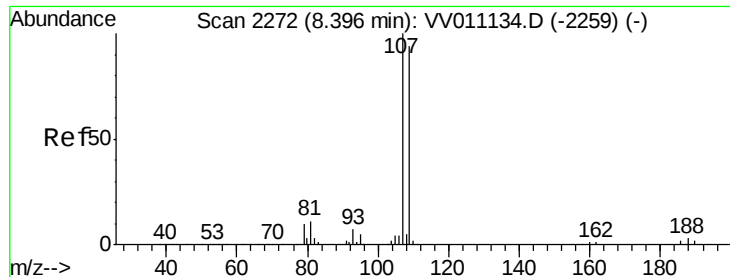
Tgt Ion: 43 Resp: 155202
Ion Ratio Lower Upper
43 100
58 51.3 41.2 61.8
57 17.4 14.3 21.5
100 11.1 9.1 13.7



#50
Dibromochloromethane
Concen: 23.773 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Tgt Ion: 129 Resp: 108997
Ion Ratio Lower Upper
129 100
127 78.1 53.8 99.8





#51

1,2-Dibromoethane

Concen: 23.479 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

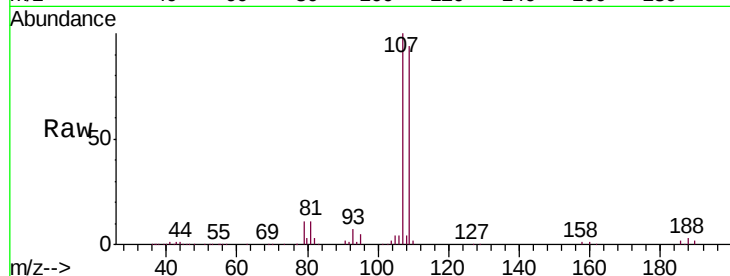
Tgt Ion:107 Resp: 92388

Ion Ratio Lower Upper

107 100

109 93.9 65.5 121.7

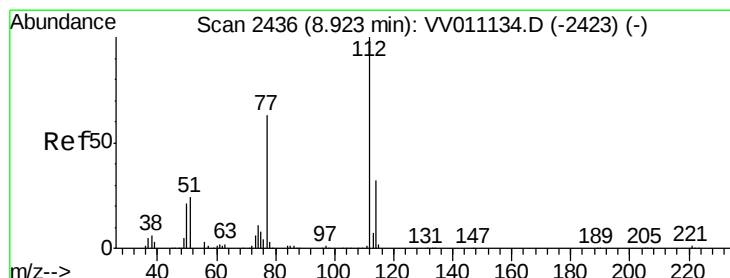
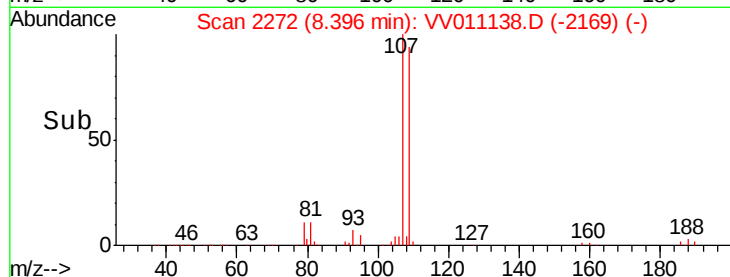
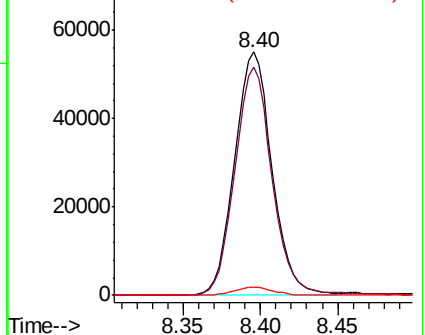
188 3.4 2.6 3.8



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: 23.694 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

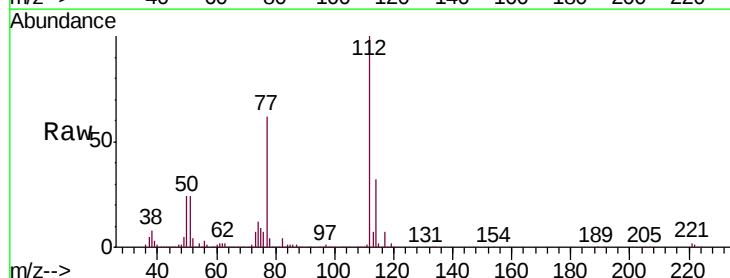
Tgt Ion:112 Resp: 327609

Ion Ratio Lower Upper

112 100

77 62.2 50.8 76.2

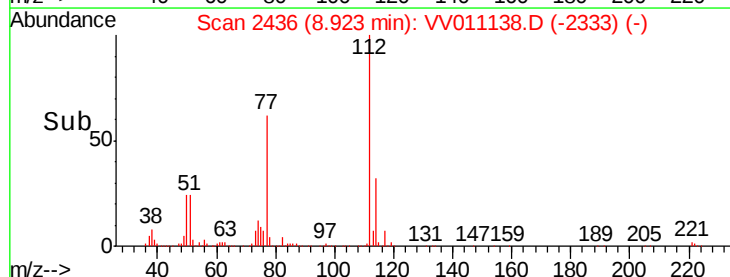
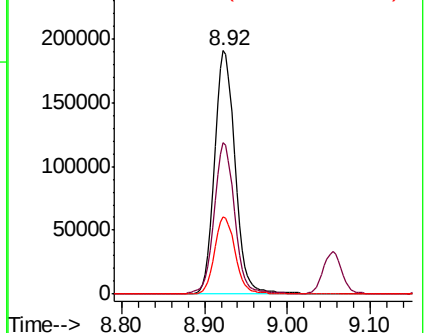
114 31.7 22.6 42.0

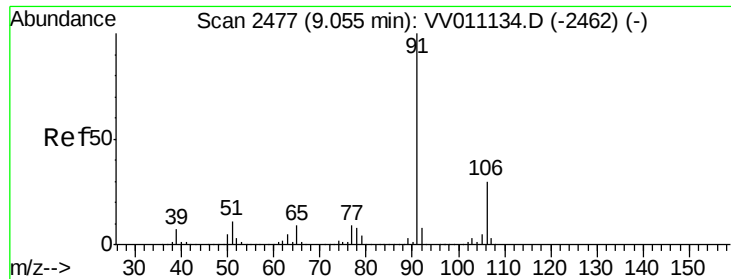


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V

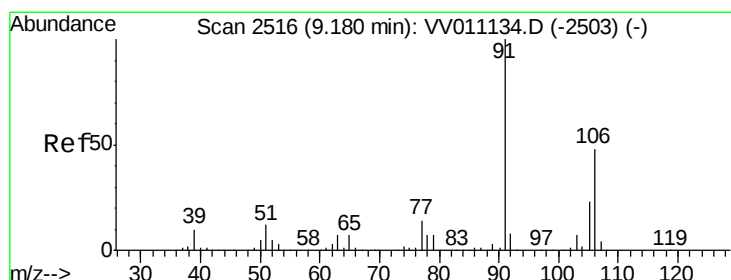
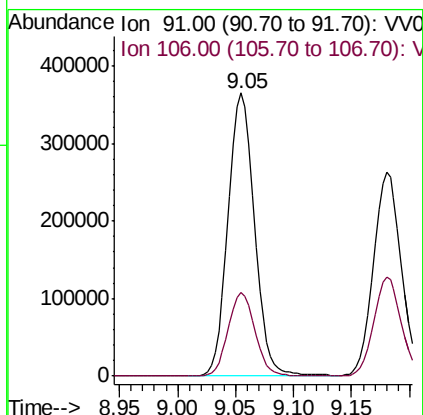
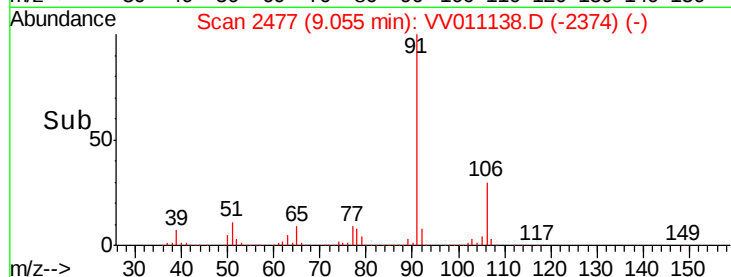
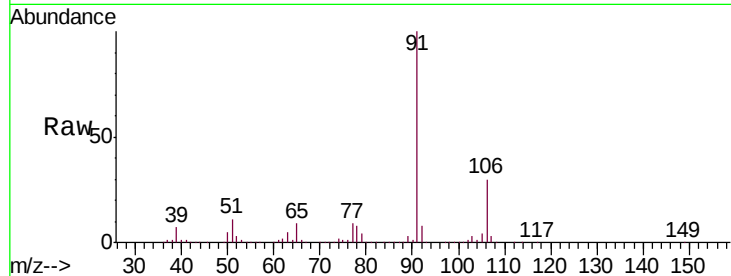




#53
Ethylbenzene
Concen: 23.231 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

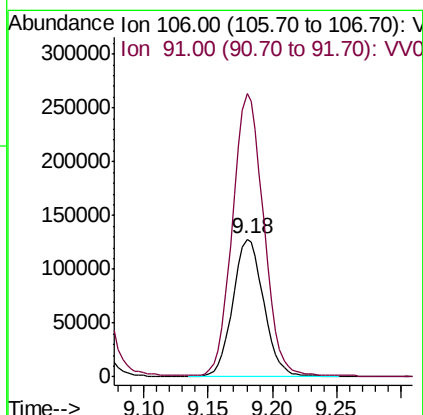
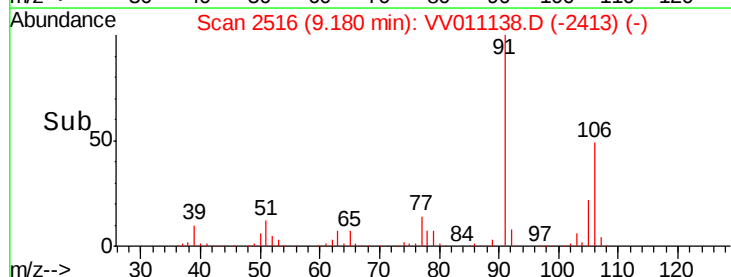
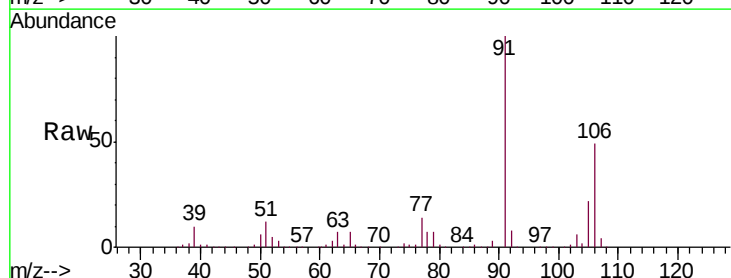
Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

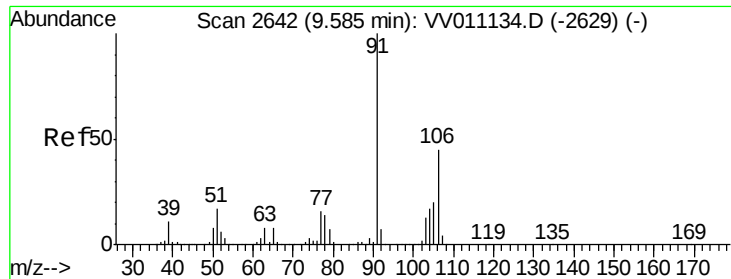
Tgt Ion: 91 Resp: 575751
Ion Ratio Lower Upper
91 100
106 29.5 21.2 39.4



#54
m,p-Xylene
Concen: 23.042 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Tgt Ion: 106 Resp: 212419
Ion Ratio Lower Upper
106 100
91 205.1 145.3 269.9

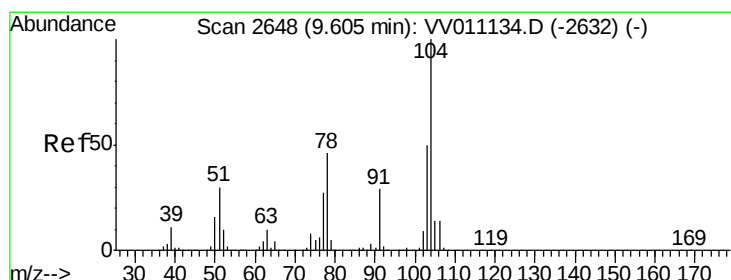
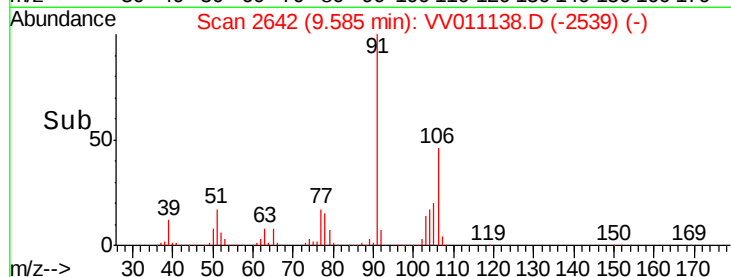
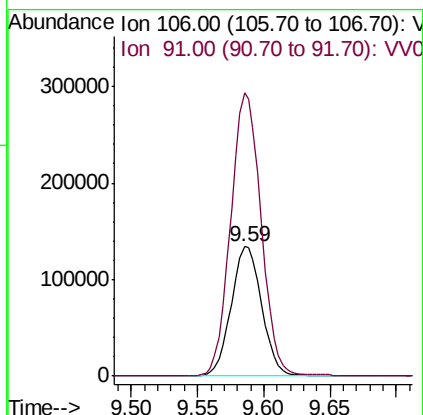
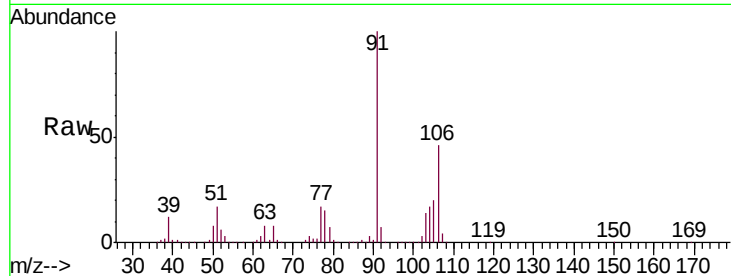




#55
o-xylene
Concen: 23.769 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

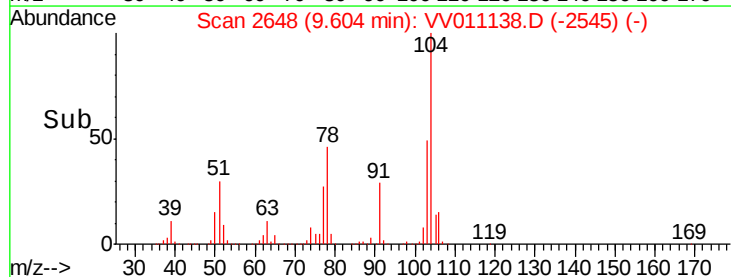
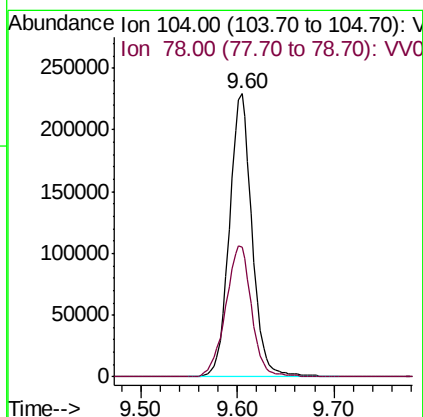
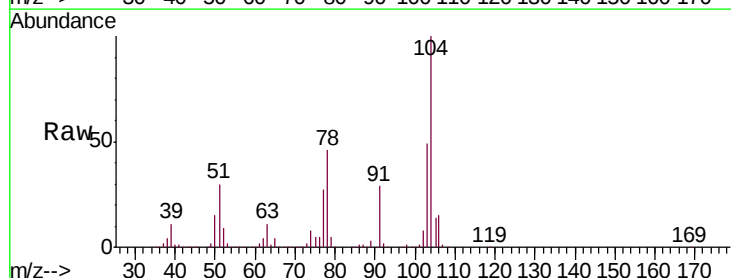
Instrument :
MSVOA_V
ClientSampleId :
VSTD02579

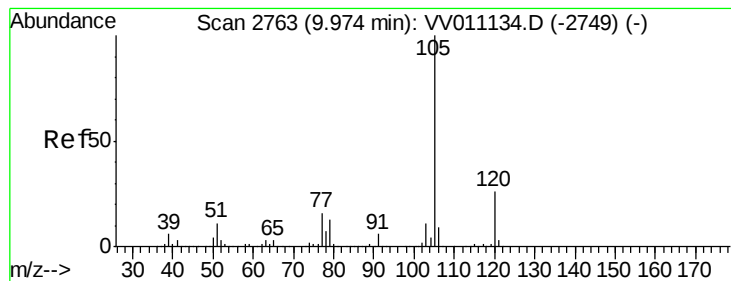
Tgt Ion:106 Resp: 215500
Ion Ratio Lower Upper
106 100
91 219.0 156.4 290.6



#56
Styrene
Concen: 24.441 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV011138.D
Acq: 30 May 2019 15:30

Tgt Ion:104 Resp: 372210
Ion Ratio Lower Upper
104 100
78 45.9 32.3 60.1





#57

Isopropylbenzene

Concen: 23.151 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

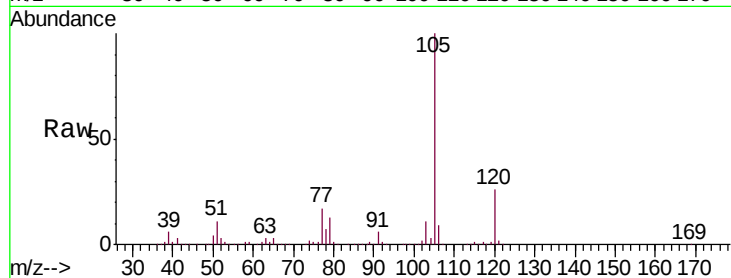
Tgt Ion: 105 Resp: 560469

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

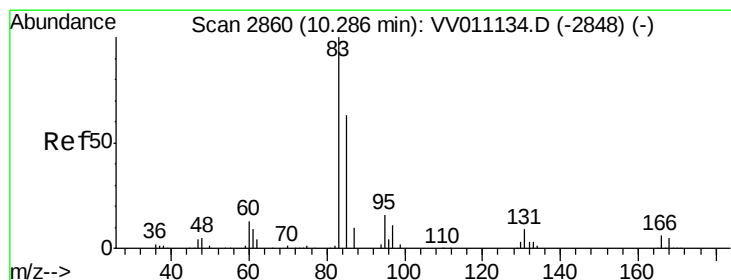
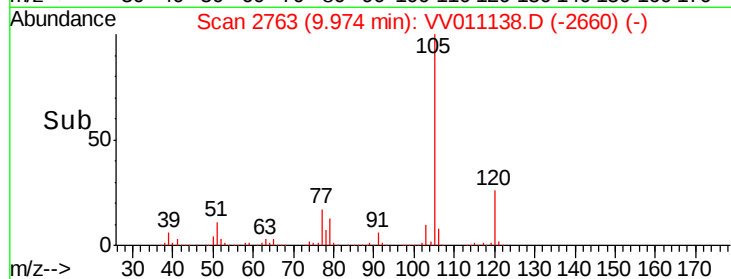
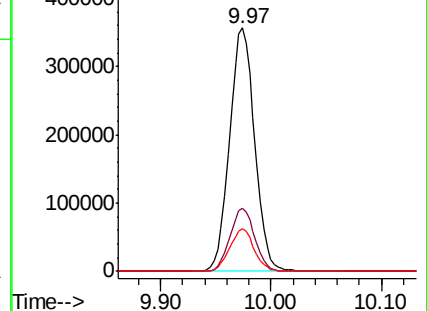
77 17.1 13.3 19.9



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: 22.916 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

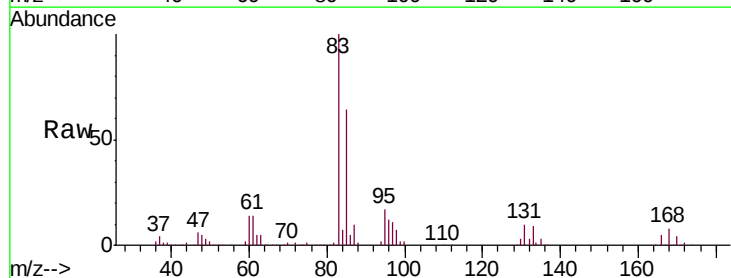
Tgt Ion: 83 Resp: 126340

Ion Ratio Lower Upper

83 100

85 63.5 44.4 82.4

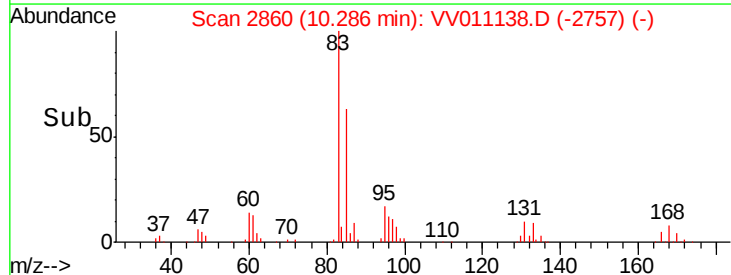
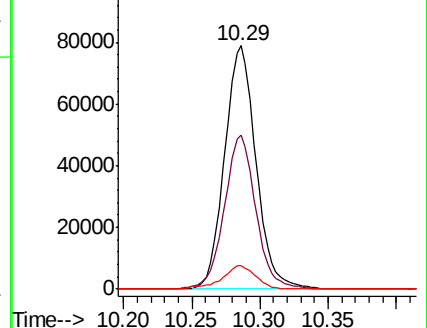
131 9.6 7.5 11.3

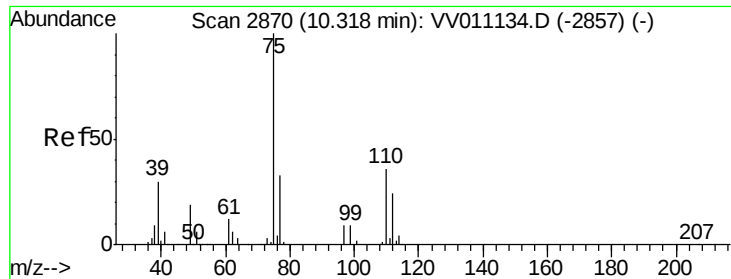


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.229 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

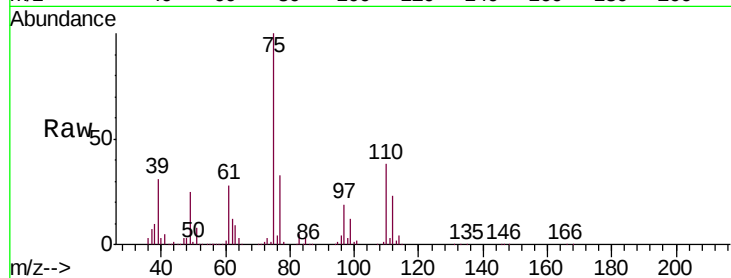
VSTD02579

Tgt Ion: 75 Resp: 96837

Ion Ratio Lower Upper

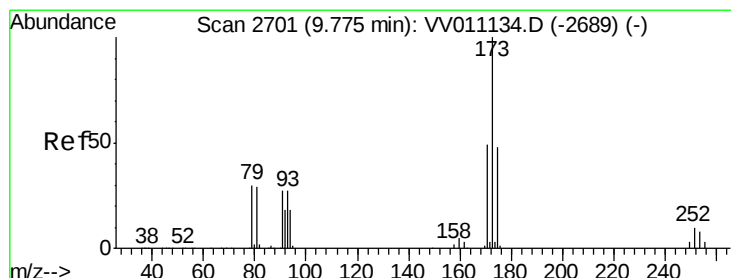
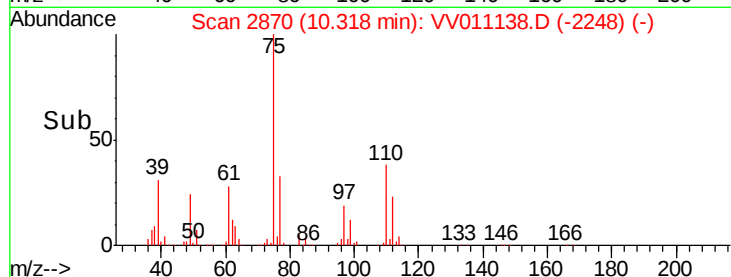
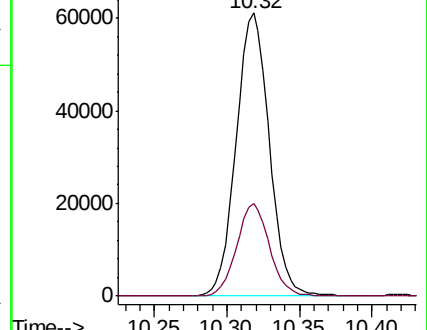
75 100

77 32.0 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV011134.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV011134.D (-2857) (-)



#62

Bromoform

Concen: 23.515 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

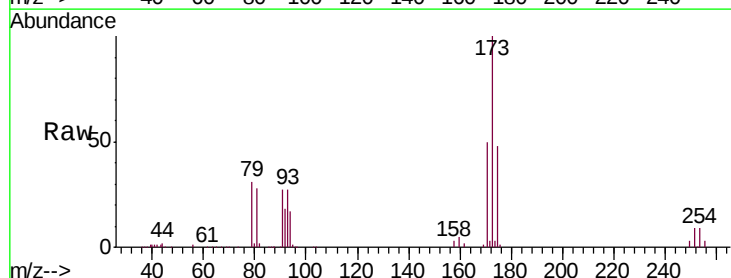
Tgt Ion: 173 Resp: 60520

Ion Ratio Lower Upper

173 100

175 47.7 38.1 57.1

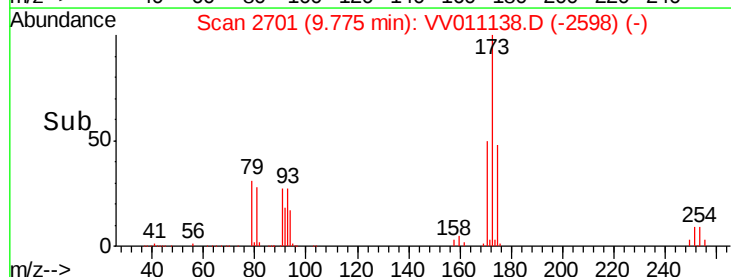
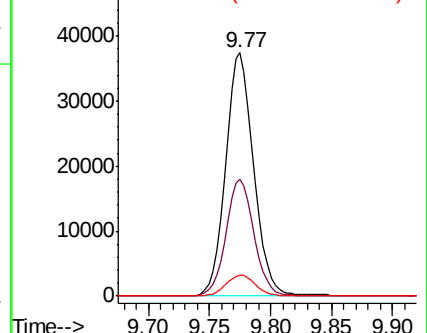
254 8.9 6.9 10.3

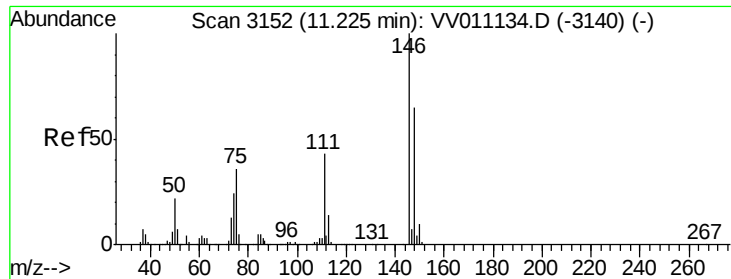


Abundance Ion 173.00 (172.70 to 173.70): VV011134.D (-2689) (-)

Ion 175.00 (174.70 to 175.70): VV011134.D (-2689) (-)

Ion 254.00 (253.70 to 254.70): VV011134.D (-2689) (-)

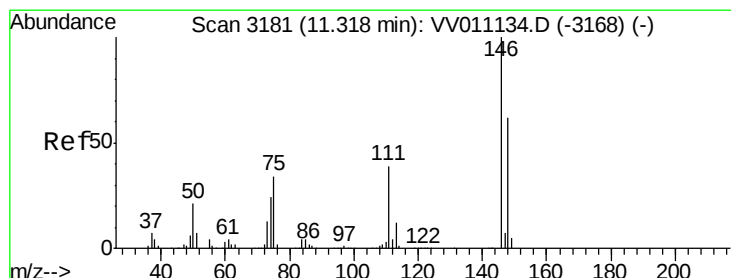
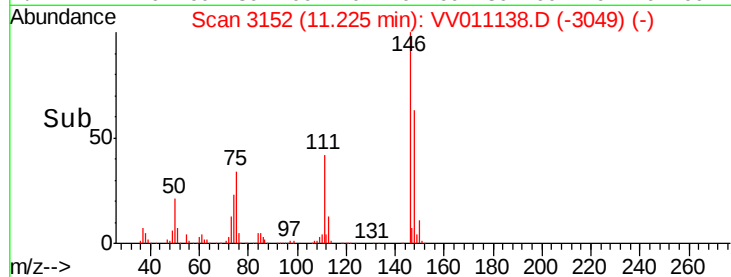
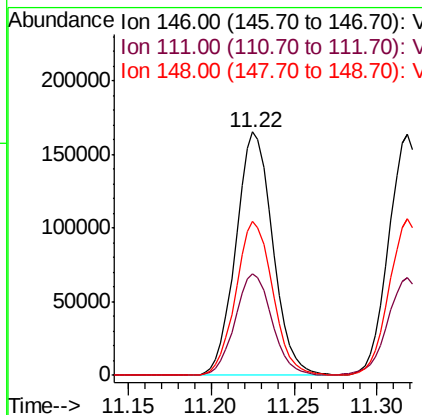
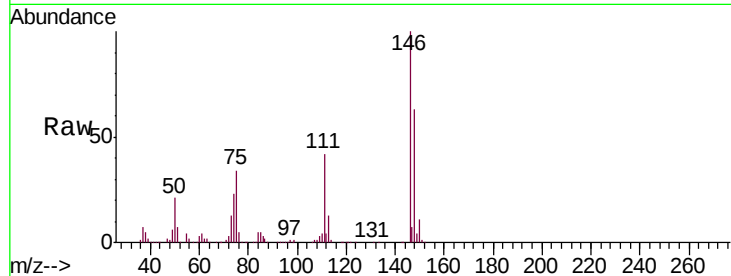




#63
 1,3-Dichlorobenzene
 Concen: 23.901 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV011138.D
 Acq: 30 May 2019 15:30

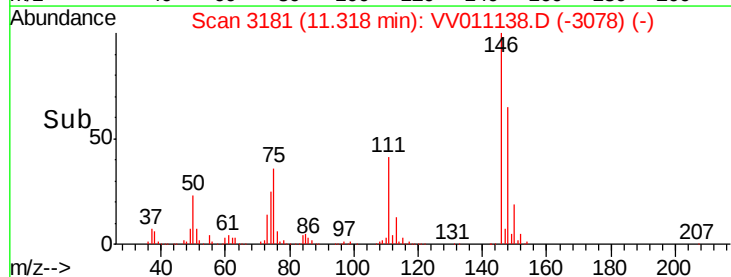
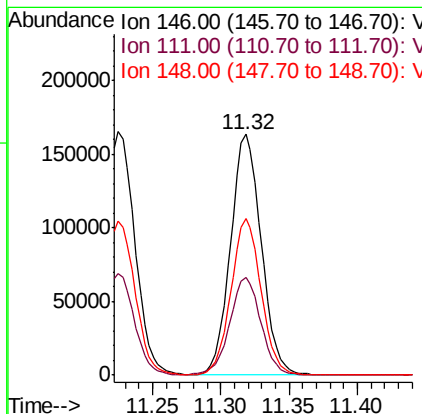
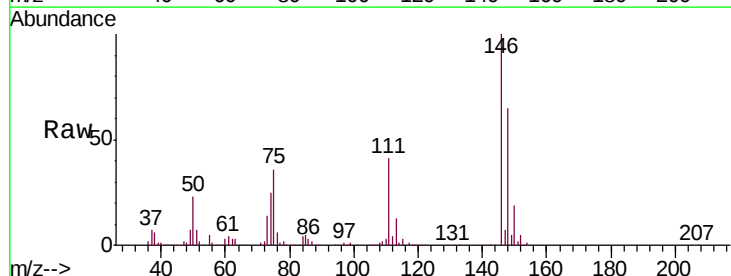
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02579

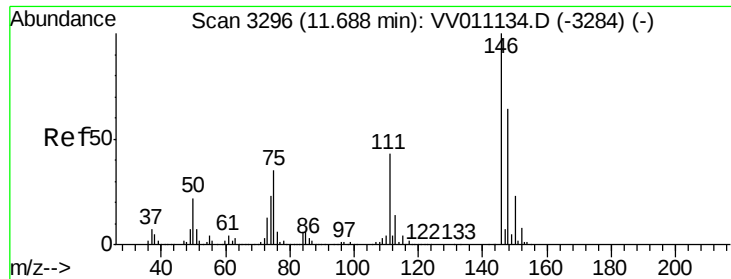
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	29.9	55.5
148	63.0	45.4	84.2



#64
 1,4-Dichlorobenzene
 Concen: 23.600 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV011138.D
 Acq: 30 May 2019 15:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.6	27.4	51.0
148	64.9	43.7	81.1





#65

1,2-Dichlorobenzene

Concen: 24.154 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

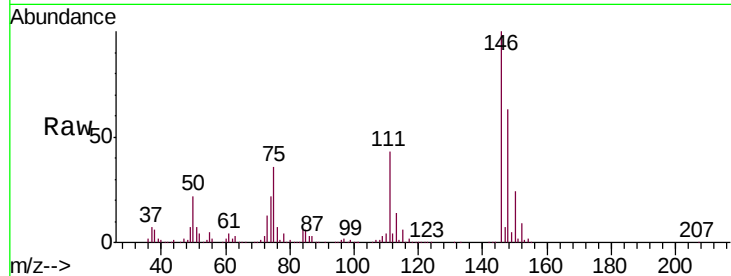
Tgt Ion:146 Resp: 244564

Ion Ratio Lower Upper

146 100

111 43.2 34.8 52.2

148 62.7 51.0 76.6

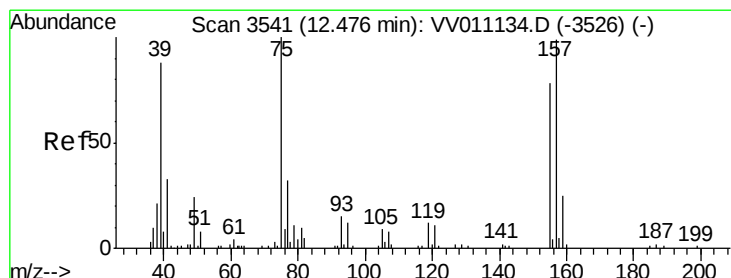
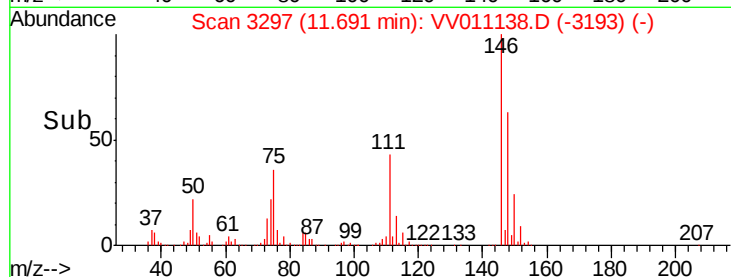
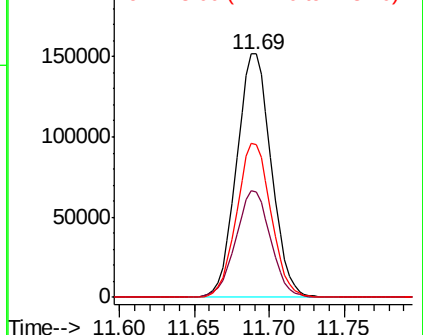


Abundance

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: 22.461 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

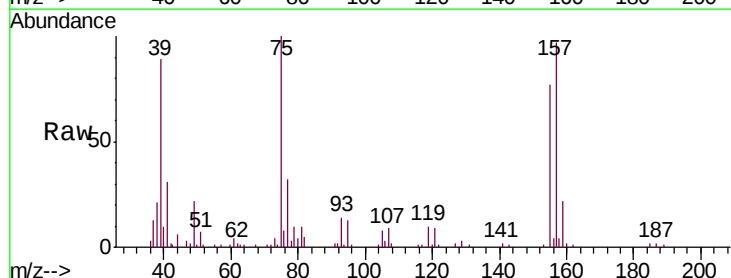
Tgt Ion: 75 Resp: 22066

Ion Ratio Lower Upper

75 100

157 97.4 79.6 119.4

155 77.0 62.4 93.6

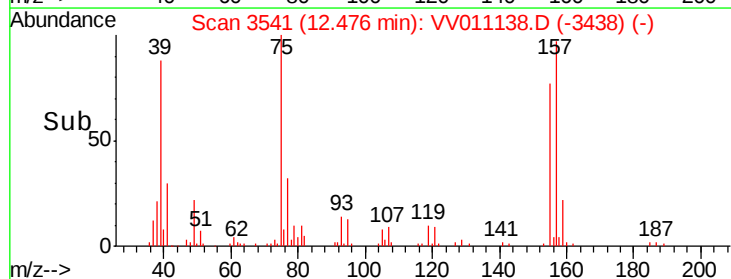
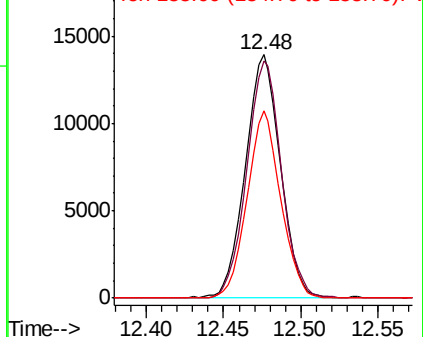


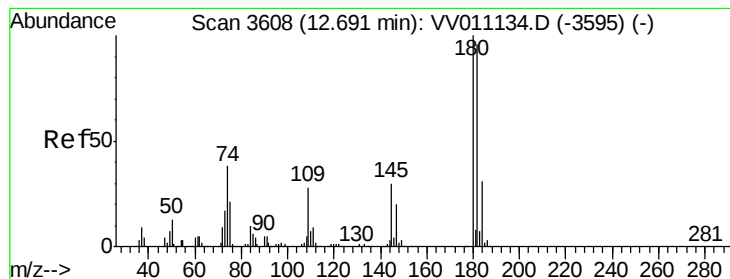
Abundance

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: 23.728 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

Tgt Ion:180 Resp: 189678

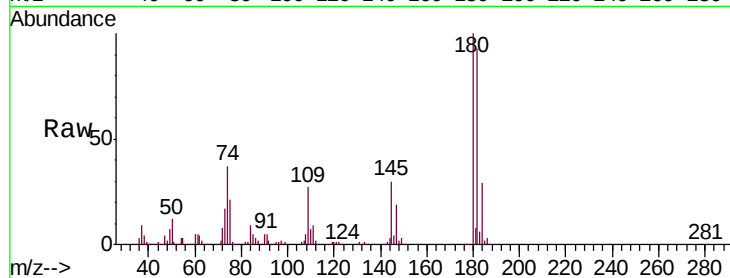
Ion Ratio Lower Upper

180 100

182 94.2 75.3 112.9

184 29.7 24.3 36.5

145 31.3 24.2 36.4

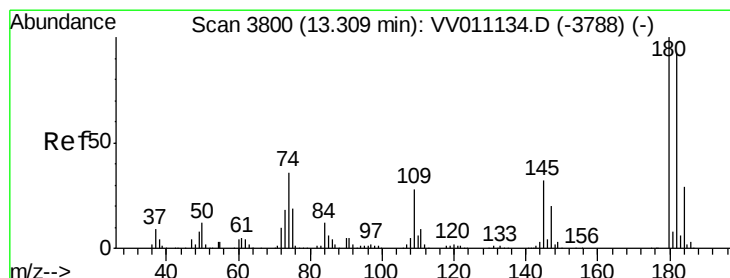
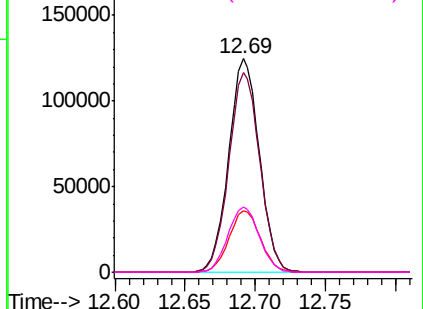
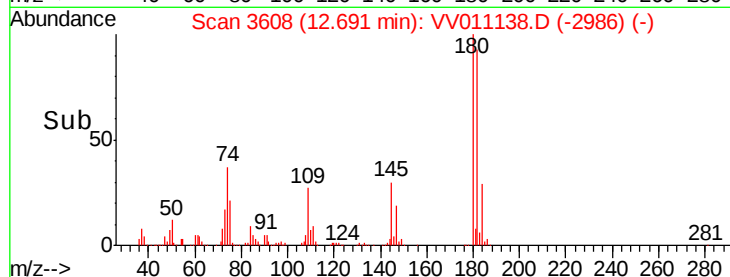


Abundance Ion 180.00 (179.70 to 180.70): V

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: 24.136 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

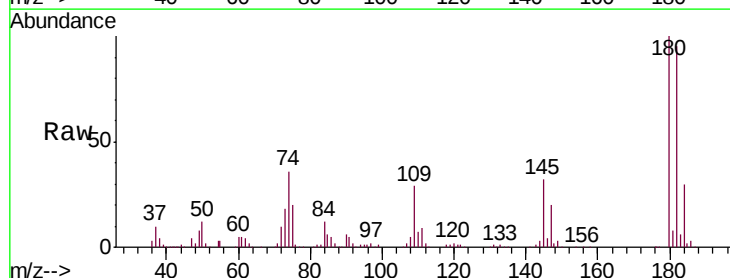
Tgt Ion:180 Resp: 154826

Ion Ratio Lower Upper

180 100

182 96.2 75.4 113.0

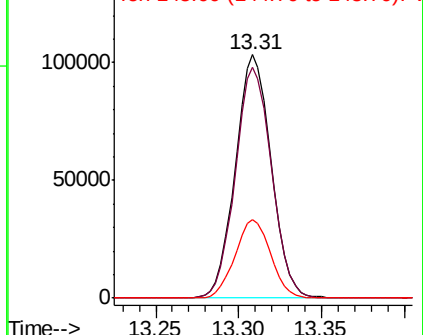
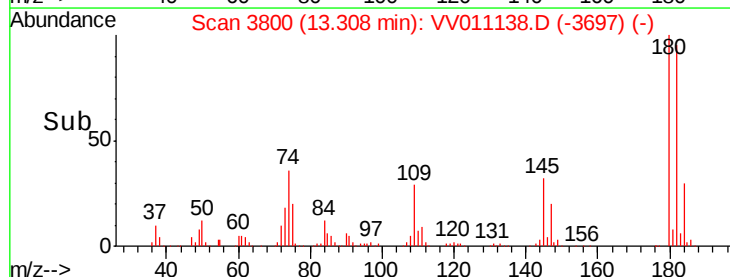
145 32.1 25.7 38.5

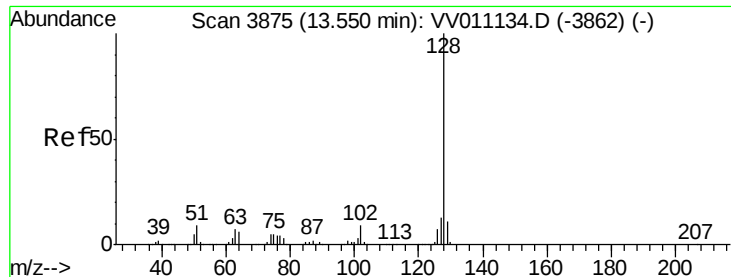


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 25.558 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD02579

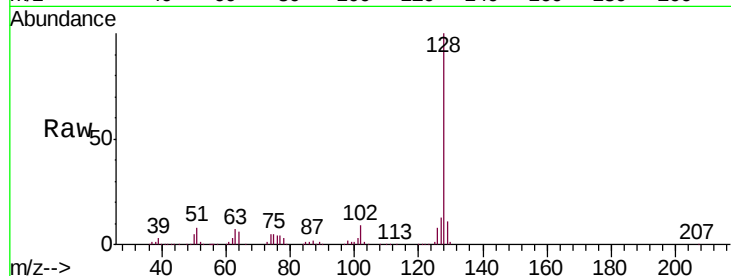
Tgt Ion:128 Resp: 337039

Ion Ratio Lower Upper

128 100

129 10.7 8.6 13.0

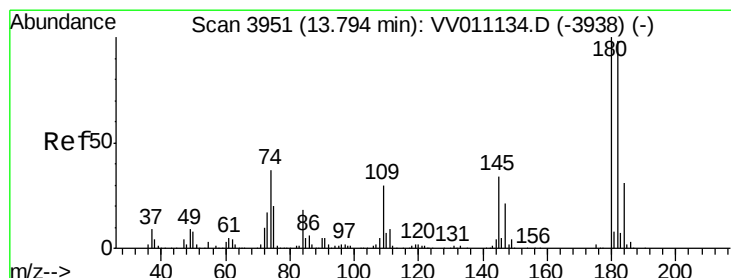
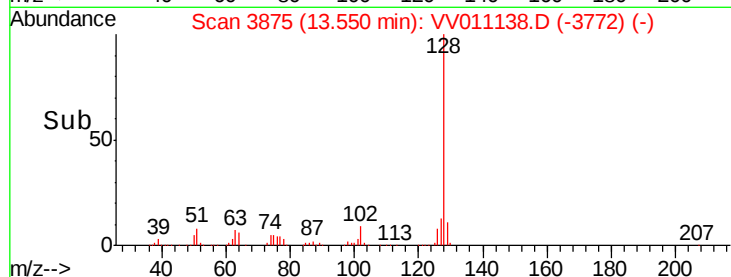
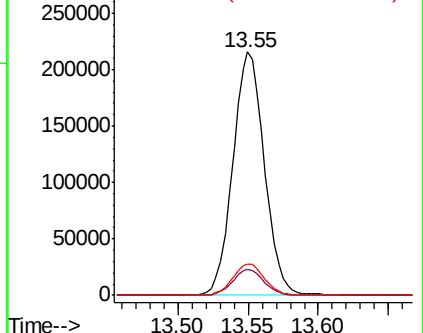
127 13.0 10.6 16.0



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: 24.667 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011138.D

Acq: 30 May 2019 15:30

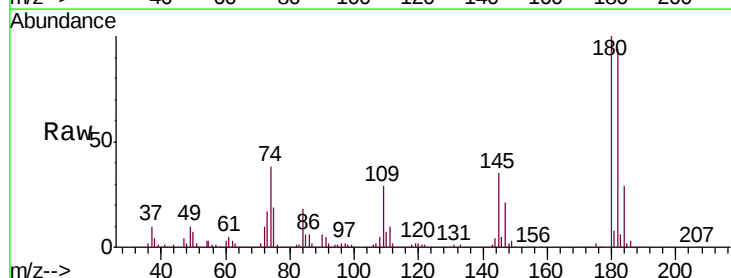
Tgt Ion:180 Resp: 146751

Ion Ratio Lower Upper

180 100

182 95.3 77.4 116.0

145 34.1 27.5 41.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

