

Data File : VV009634.D
Acq On : 13 Mar 2019 11:53
Operator : SY/MD
Sample : VSTD05081
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

Quant Time: Mar 13 12:18:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM031319S.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 13 11:58:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	160037	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	156896	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	76801	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	101209	52.54	ug/L	0.00
7) Chloroethane-d5	1.57	69	100257	35.99	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	273267	54.51	ug/L	0.00
20) 2-Butanone-d5	3.93	46	62066	94.54	ug/L	0.00
24) Chloroform-d	4.40	84	209776	55.02	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	122994	56.71	ug/L	0.00
29) Benzene-d6	5.10	84	423788	54.54	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	126582	55.20	ug/L	0.00
37) Toluene-d8	7.36	98	425830	56.21	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	61080	54.96	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	49427	92.36	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	125252	51.25	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	154071	54.95	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	119565	64.886 ug/L	100
3) Chloromethane	1.25	50	104172	53.044 ug/L	99
5) Vinyl chloride	1.32	62	113609	52.473 ug/L	100
6) Bromomethane	1.51	94	119654	44.393 ug/L	100
8) Chloroethane	1.59	64	79912	33.214 ug/L	100
9) Trichlorofluoromethane	1.76	101	238484	53.697 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	133019	53.489 ug/L	99
12) 1,1-Dichloroethene	2.14	96	116501	54.754 ug/L	98
13) Acetone	2.19	43	71806	107.583 ug/L	99
14) Carbon disulfide	2.31	76	291174	53.991 ug/L	100
15) Methyl Acetate	2.46	43	47459	43.908 ug/L	98
16) Methylene chloride	2.53	84	103834	49.438 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	258577	54.270 ug/L	100
18) trans-1,2-Dichloroethene	2.79	96	106295	55.617 ug/L	95
19) 1,1-Dichloroethane	3.23	63	183475	54.483 ug/L	97
21) 2-Butanone	4.01	43	87086	103.382 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	119812	55.530 ug/L	95
23) Bromochloromethane	4.30	128	55532	55.818 ug/L	99
25) Chloroform	4.42	83	212421	56.523 ug/L	99
27) 1,2-Dichloroethane	5.18	62	146412	56.095 ug/L	98
30) Cyclohexane	4.73	56	172318	51.751 ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	180767	51.539 ug/L	98
32) Carbon tetrachloride	4.87	117	160525	54.135 ug/L	100
34) Benzene	5.15	78	437223	53.931 ug/L	100
35) Trichloroethene	5.96	95	120938	51.908 ug/L	100
36) Methylcyclohexane	6.18	83	193089	50.874 ug/L	98
40) 1,2-Dichloropropane	6.22	63	104210	49.853 ug/L	99
41) Bromodichloromethane	6.55	83	155676	55.175 ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	175965	54.223 ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	148952	90.394 ug/L	98

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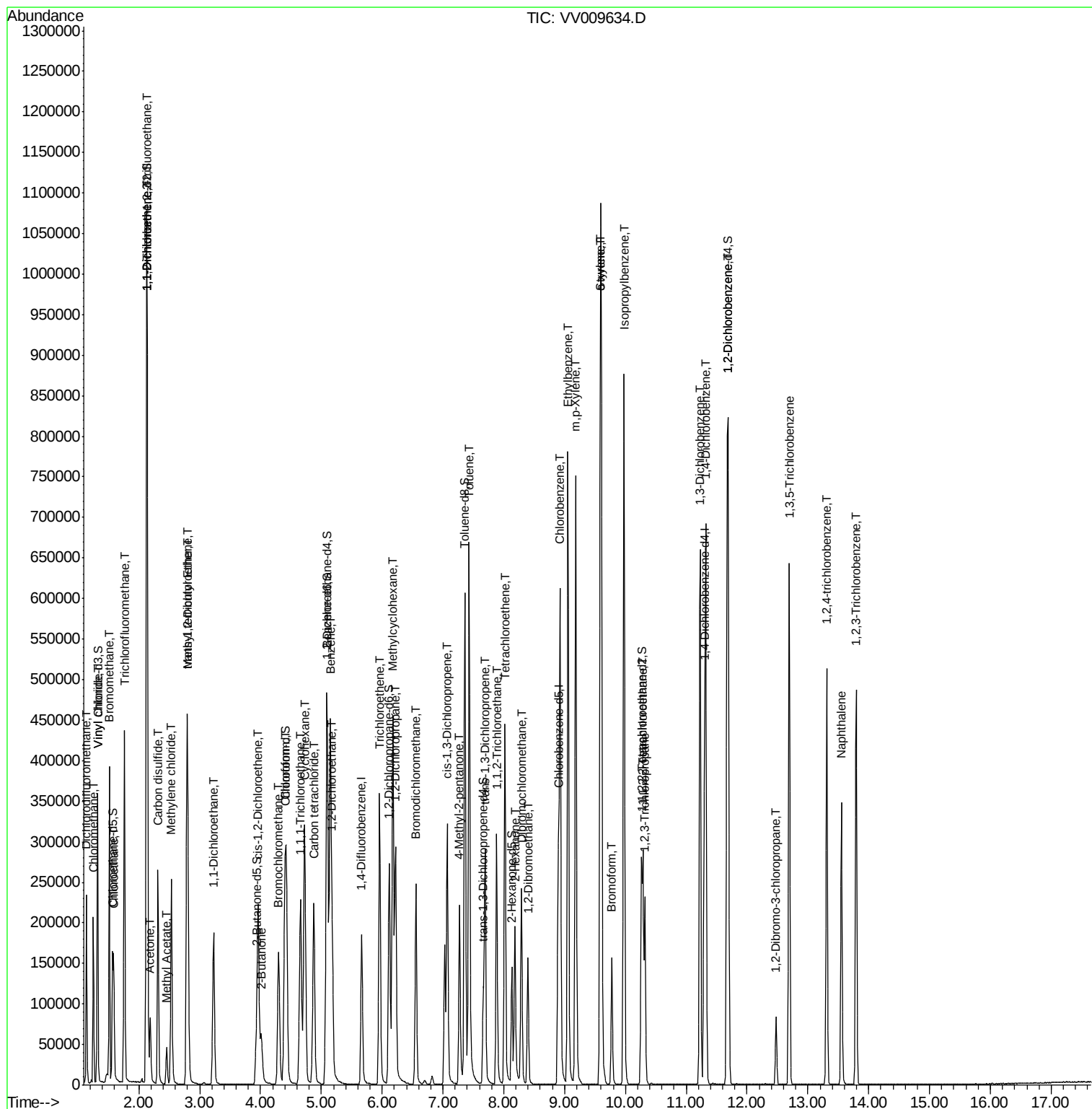
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	503697	54.965	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	154385	54.472	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	91616	52.755	ug/L	98
47) Tetrachloroethene	8.02	164	94941	53.726	ug/L	98
49) 2-Hexanone	8.18	43	126536	101.552	ug/L	97
50) Dibromochloromethane	8.29	129	114854	54.627	ug/L	97
51) 1,2-Dibromoethane	8.40	107	95312	53.119	ug/L	97
52) Chlorobenzene	8.93	112	327302	53.885	ug/L	99
53) Ethylbenzene	9.05	91	570910	54.443	ug/L	97
54) m,p-Xylene	9.18	106	220487	55.553	ug/L	100
55) o-xylene	9.59	106	216749	56.635	ug/L	98
56) Styrene	9.60	104	363533	57.738	ug/L	98
57) Isopropylbenzene	9.98	105	571630	54.151	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	125194	51.054	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	87678	49.600	ug/L	98
62) Bromoform	9.78	173	64130	51.457	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	252922	52.722	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	253280	51.667	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	239705	53.579	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	18985	42.368	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	177479	51.577	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	140565	51.021	ug/L	99
69) Naphthalene	13.55	128	262464	45.229	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	130808	51.610	ug/L	98

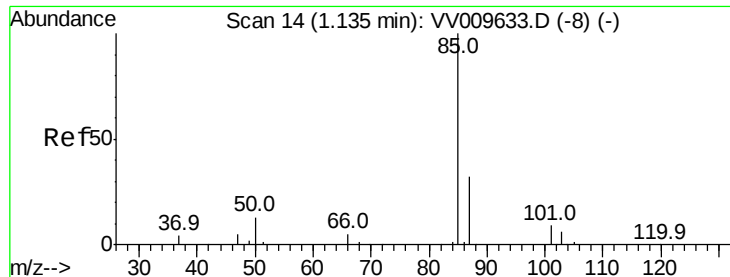
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 64.886 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

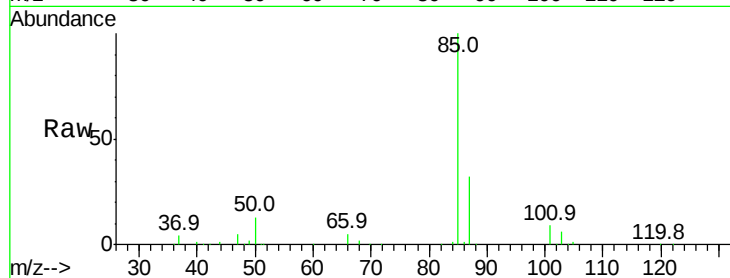
VSTD05081

Tgt Ion: 85 Resp: 119565

Ion Ratio Lower Upper

85 100

87 31.9 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009633.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009633.D (-8) (-)

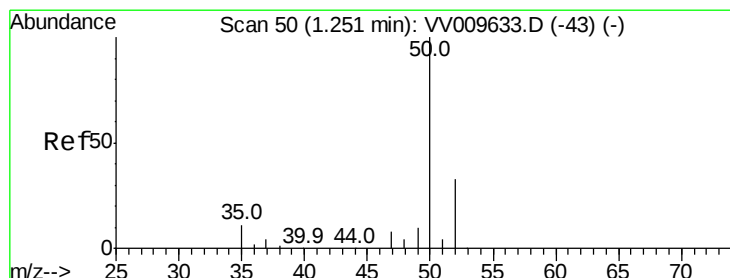
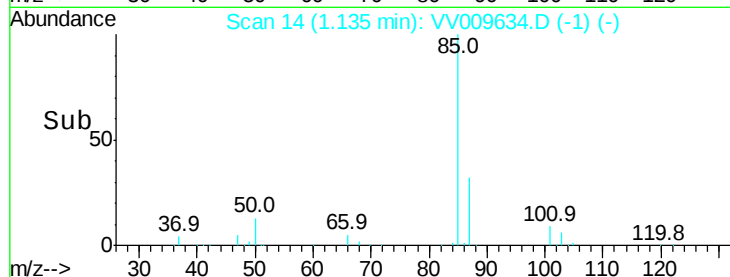
1.14

100000

50000

0

Time-->



#3

Chloromethane

Concen: 53.044 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009634.D

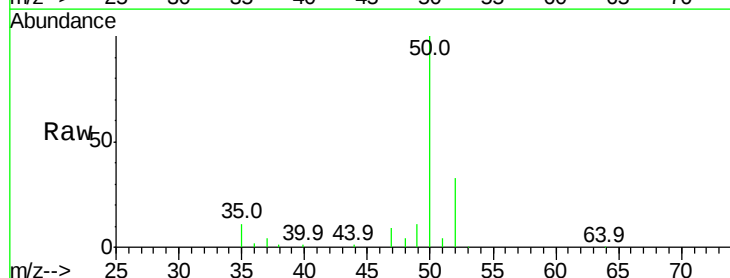
Acq: 13 Mar 2019 11:53

Tgt Ion: 50 Resp: 104172

Ion Ratio Lower Upper

50 100

52 33.3 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV009633.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009633.D (-43) (-)

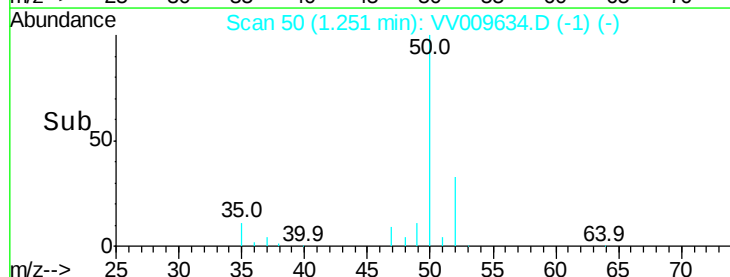
1.25

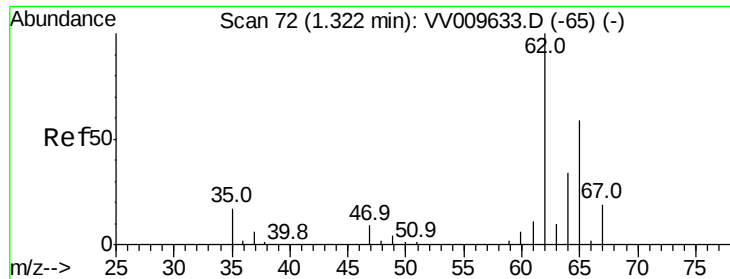
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 52.473 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

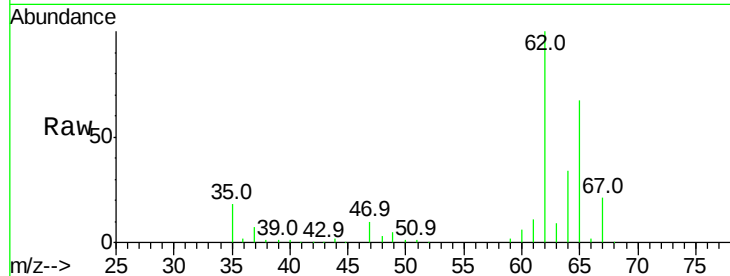
VSTD05081

Tgt Ion: 62 Resp: 113609

Ion Ratio Lower Upper

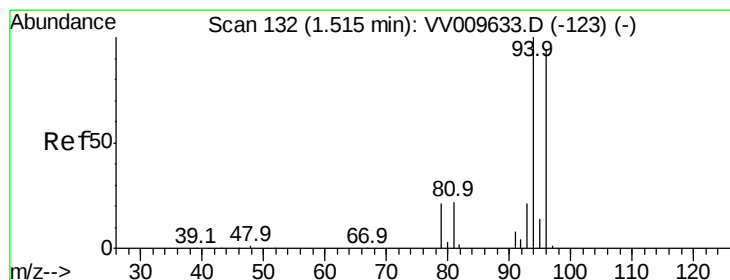
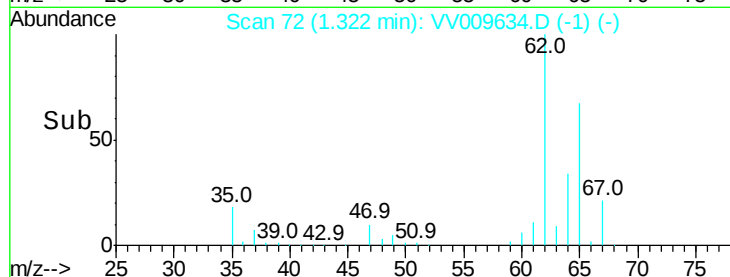
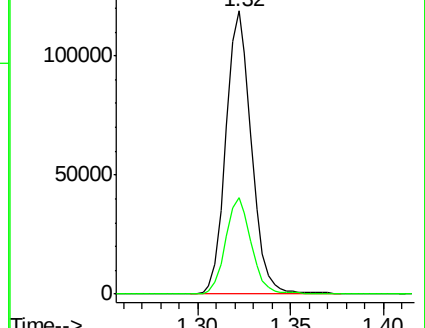
62 100

64 34.0 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 44.393 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV009634.D

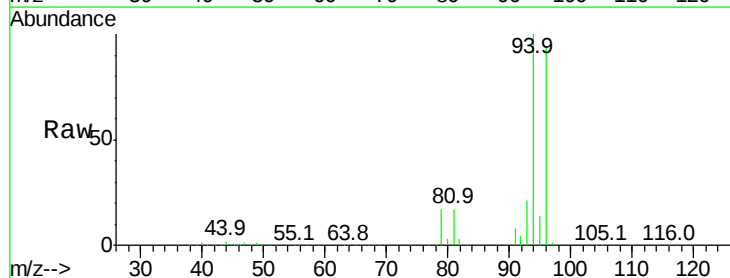
Acq: 13 Mar 2019 11:53

Tgt Ion: 94 Resp: 119654

Ion Ratio Lower Upper

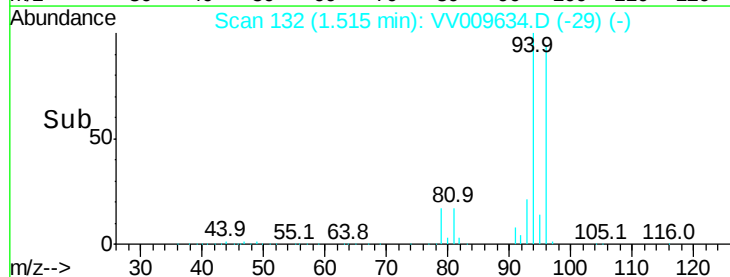
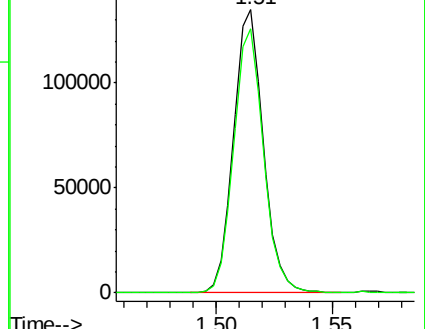
94 100

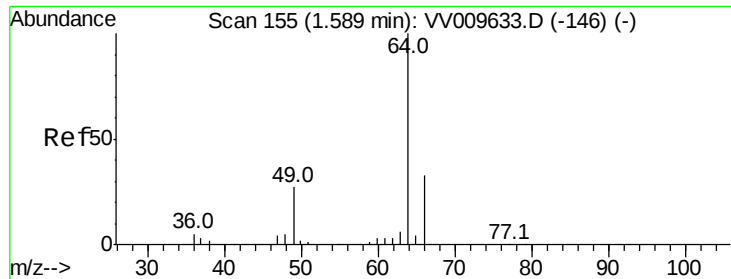
96 93.6 9.4 178.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 33.214 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

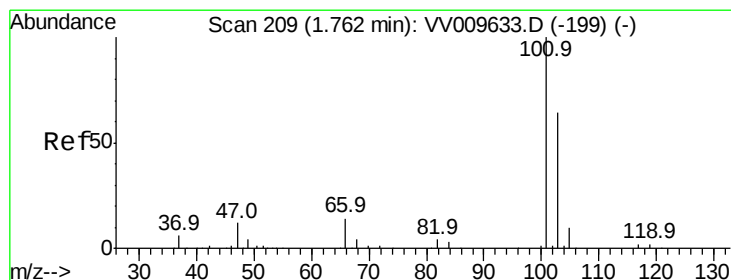
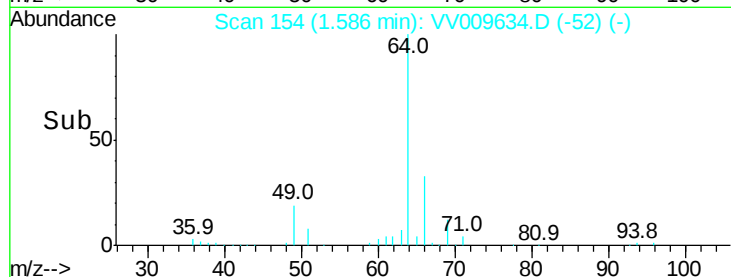
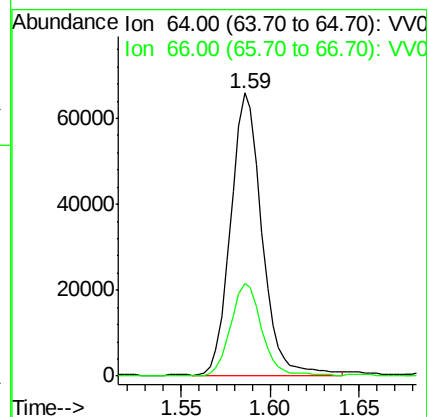
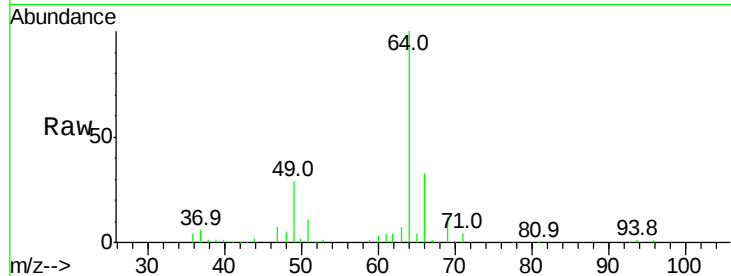
VSTD05081

Tgt Ion: 64 Resp: 79912

Ion Ratio Lower Upper

64 100

66 32.9 23.0 42.8



#9

Trichlorofluoromethane

Concen: 53.697 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV009634.D

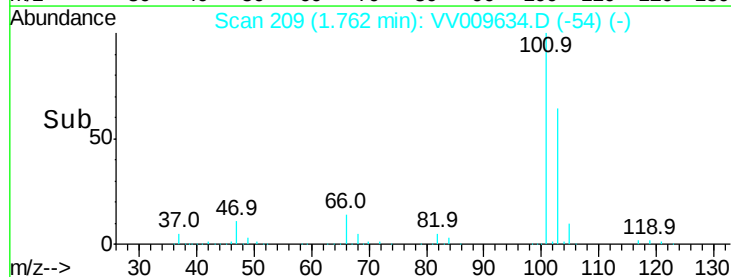
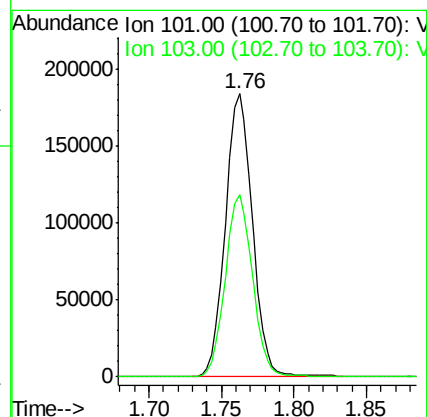
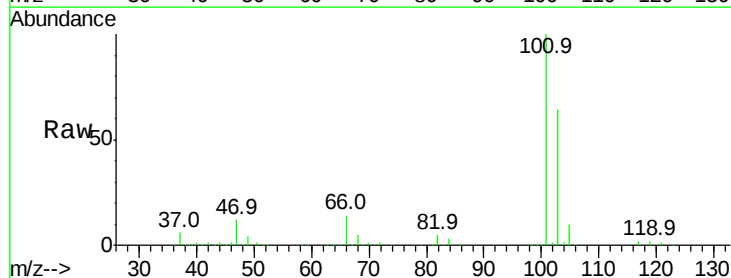
Acq: 13 Mar 2019 11:53

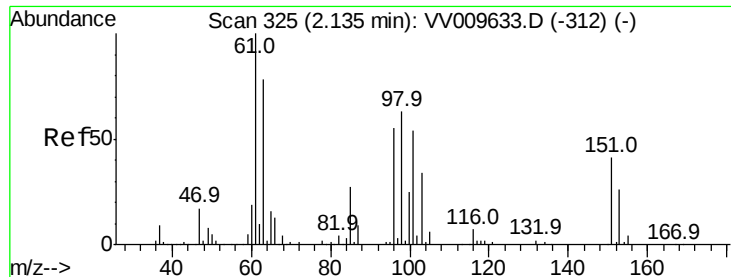
Tgt Ion: 101 Resp: 238484

Ion Ratio Lower Upper

101 100

103 65.2 45.4 84.2





#11

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

Concen: 53.489 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05081

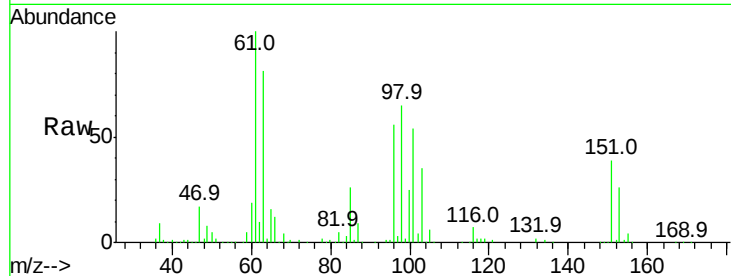
Tgt Ion: 101 Resp: 133019

Ion Ratio Lower Upper

101 100

85 48.0 38.7 58.1

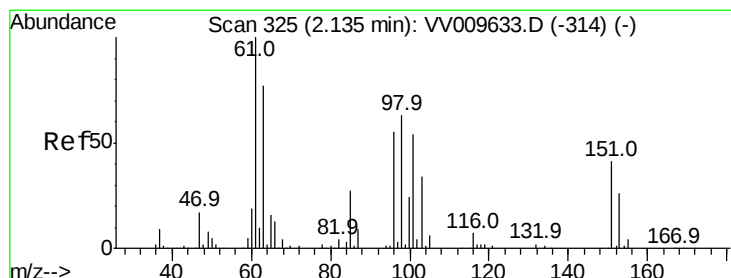
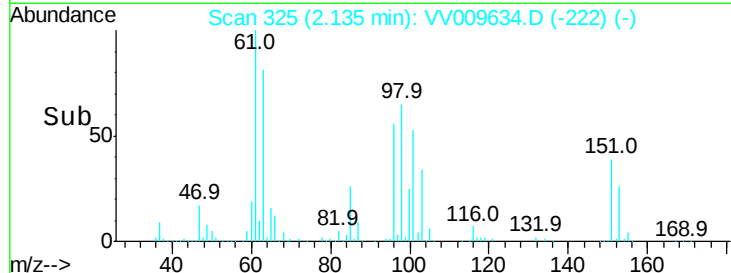
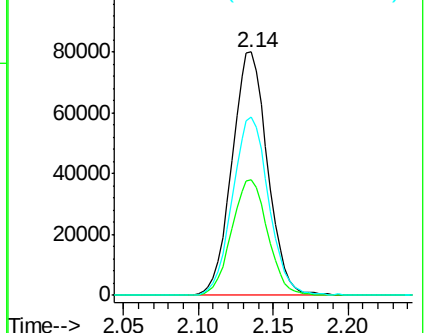
151 74.3 58.5 87.7



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: 54.754 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

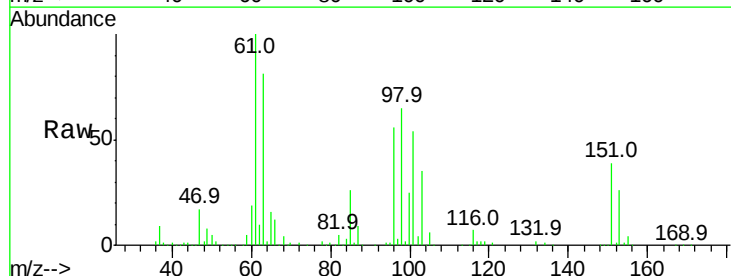
Tgt Ion: 96 Resp: 116501

Ion Ratio Lower Upper

96 100

61 179.3 128.4 238.5

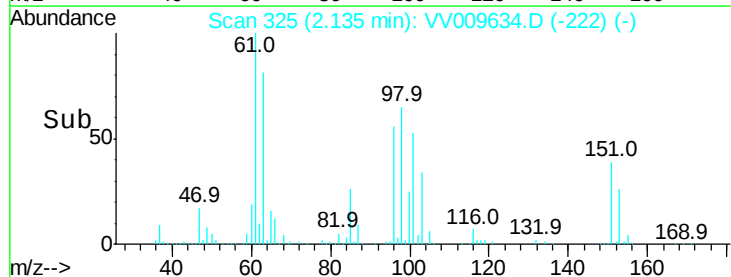
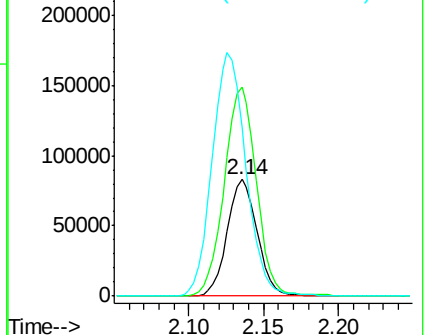
63 144.7 100.7 186.9

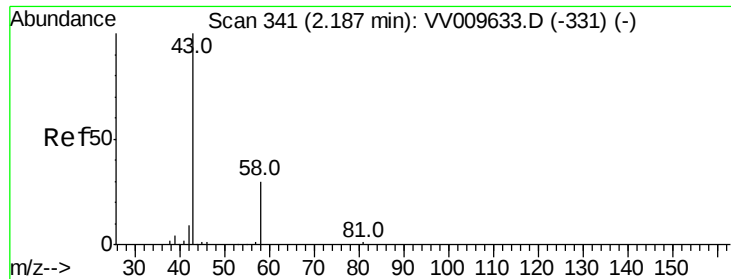


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 107.583 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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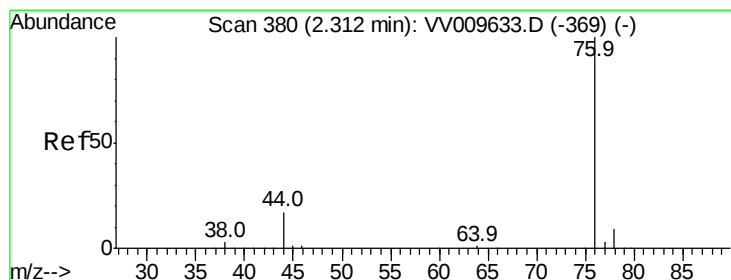
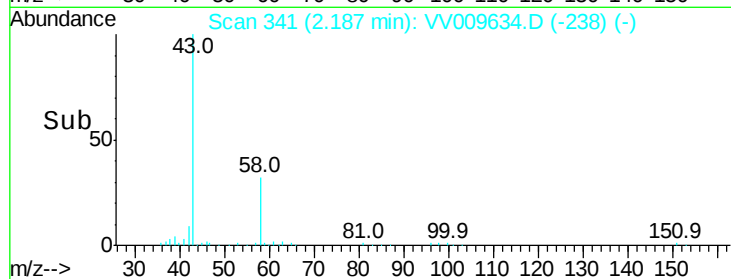
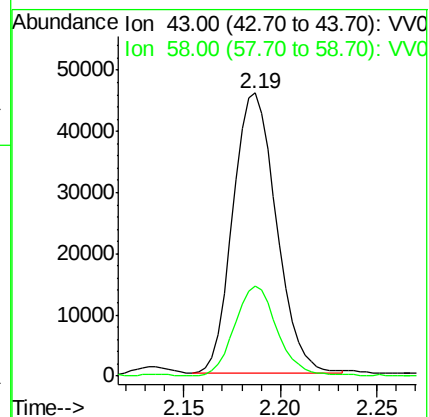
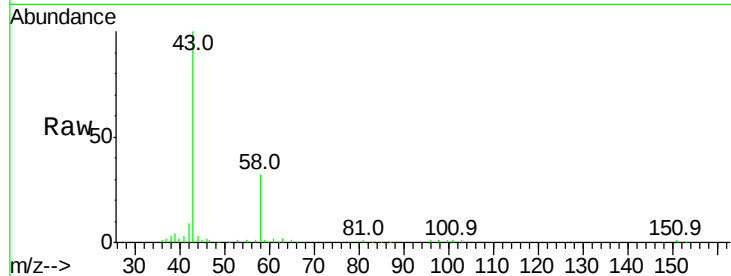
VSTD05081

Tgt Ion: 43 Resp: 71806

Ion Ratio Lower Upper

43 100

58 31.8 0.0 64.8



#14

Carbon disulfide

Concen: 53.991 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009634.D

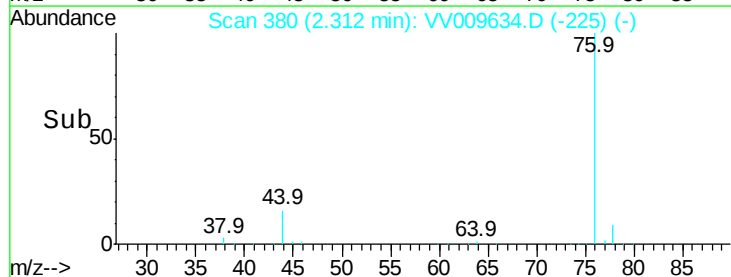
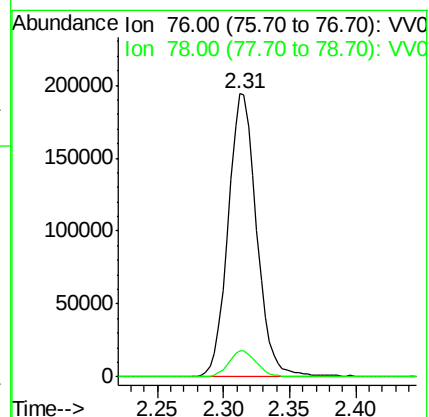
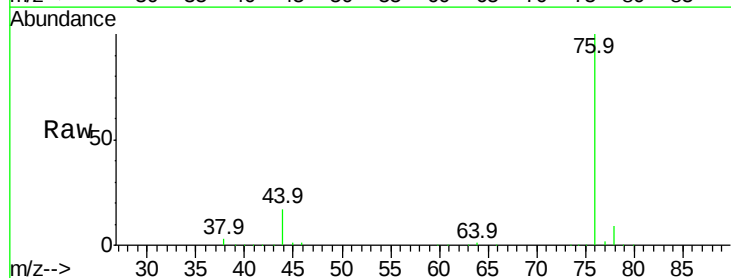
Acq: 13 Mar 2019 11:53

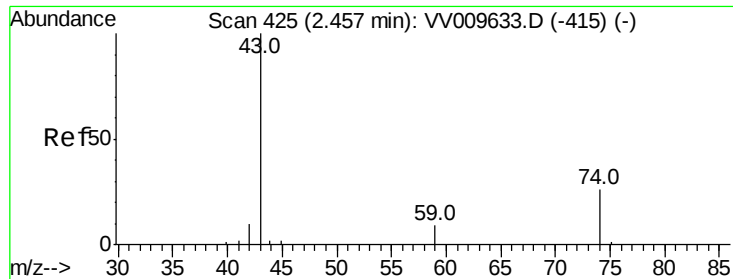
Tgt Ion: 76 Resp: 291174

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

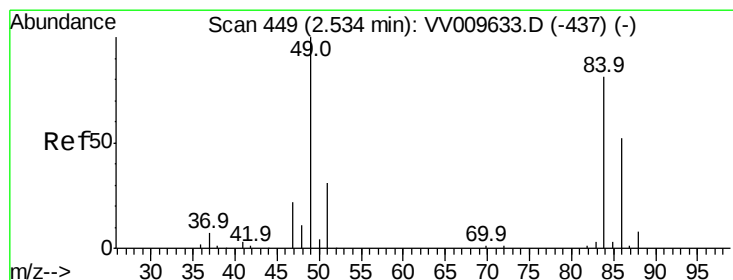
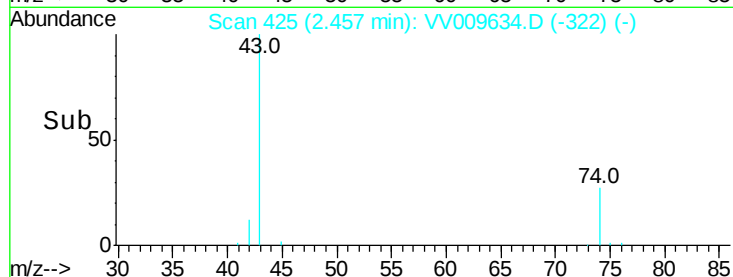
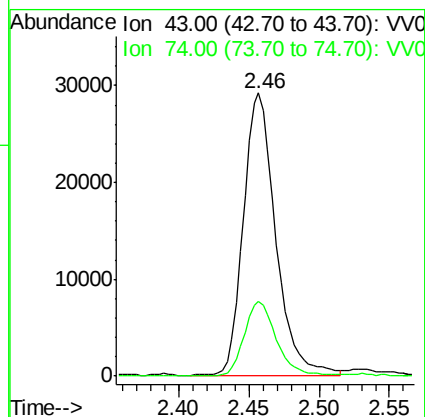
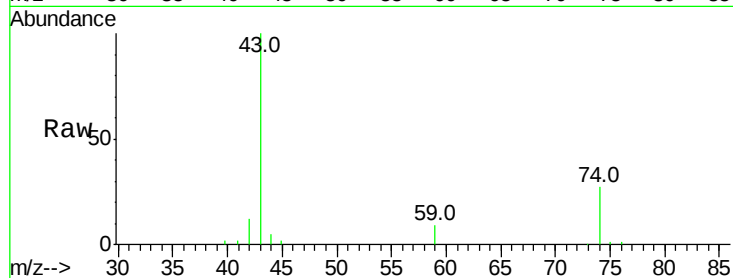




#15
Methyl Acetate
Concen: 43.908 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

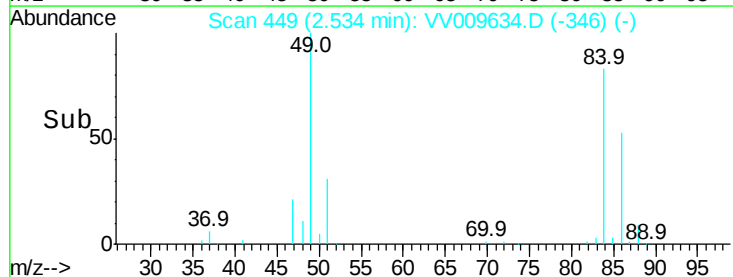
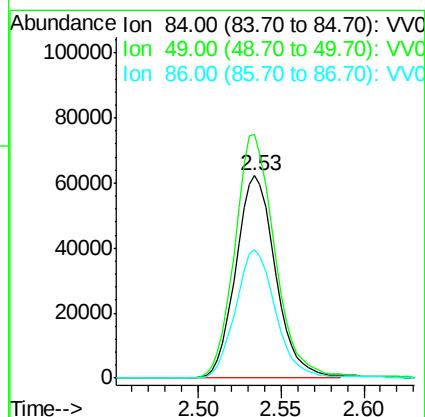
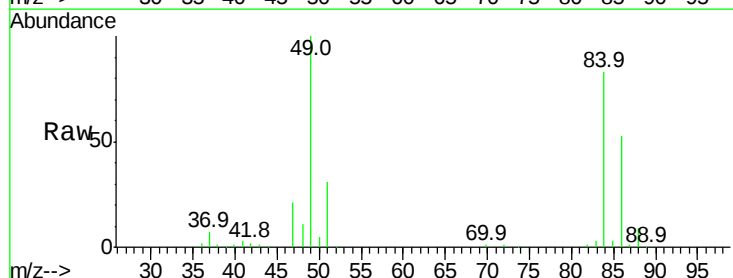
Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

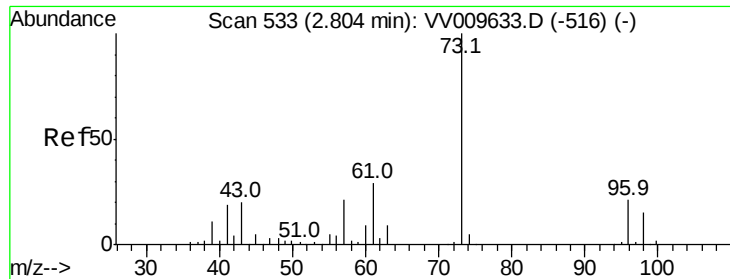
Tgt Ion: 43 Resp: 47459
Ion Ratio Lower Upper
43 100
74 25.9 19.8 29.6



#16
Methylene chloride
Concen: 49.438 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion: 84 Resp: 103834
Ion Ratio Lower Upper
84 100
49 120.4 86.1 159.9
86 63.7 45.2 84.0

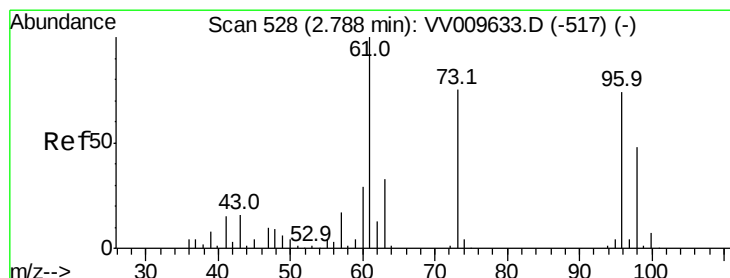
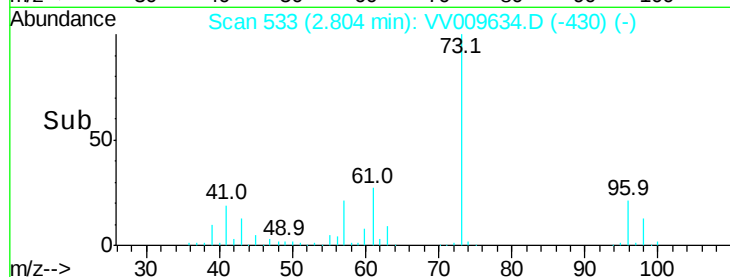
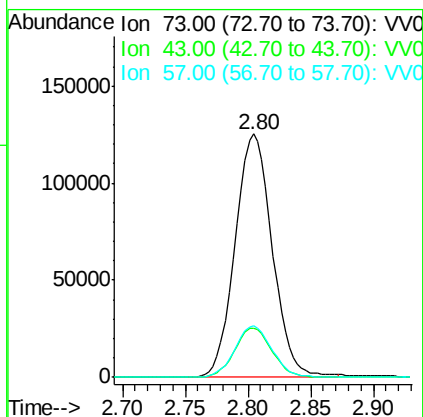
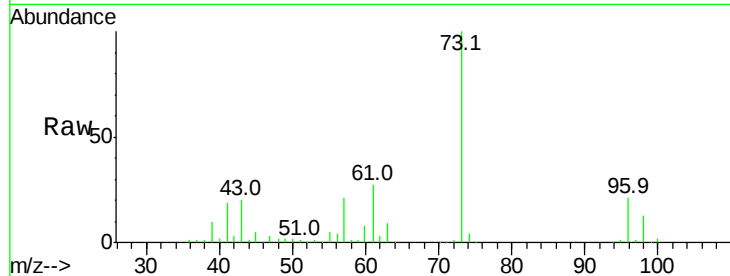




#17
Methyl tert-butyl Ether
Concen: 54.270 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

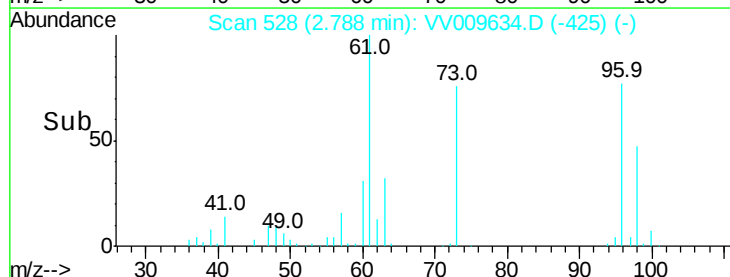
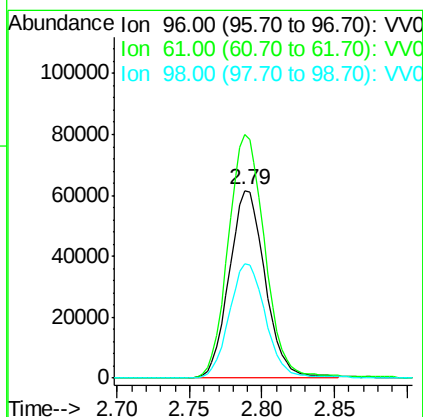
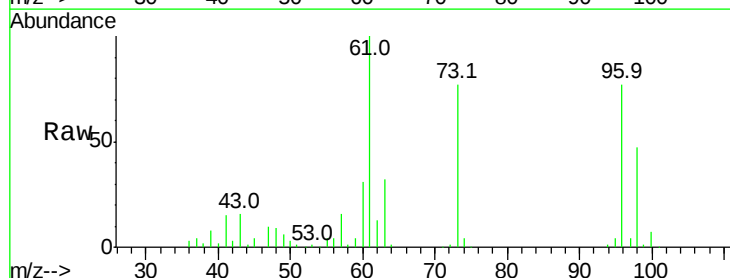
Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

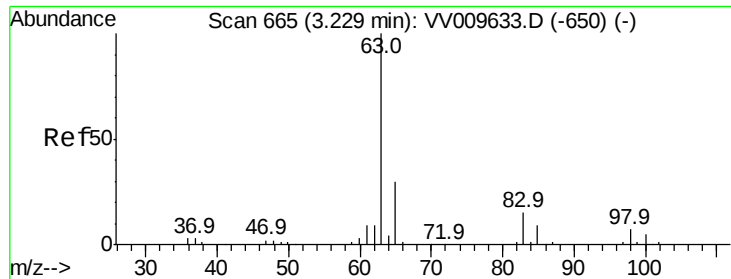
Tgt Ion: 73 Resp: 258577
Ion Ratio Lower Upper
73 100
43 20.4 16.3 24.5
57 21.1 16.7 25.1



#18
trans-1,2-Dichloroethene
Concen: 55.617 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion: 96 Resp: 106295
Ion Ratio Lower Upper
96 100
61 129.8 94.4 175.2
98 60.7 45.4 84.4





#19

1,1-Dichloroethane

Concen: 54.483 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05081

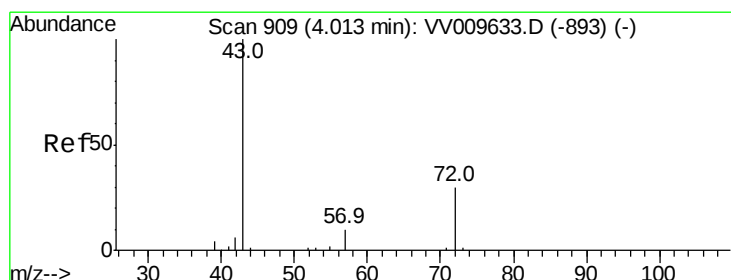
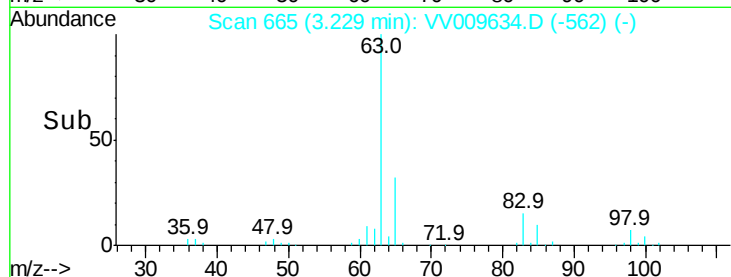
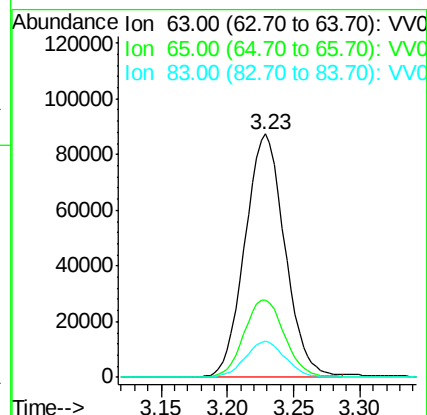
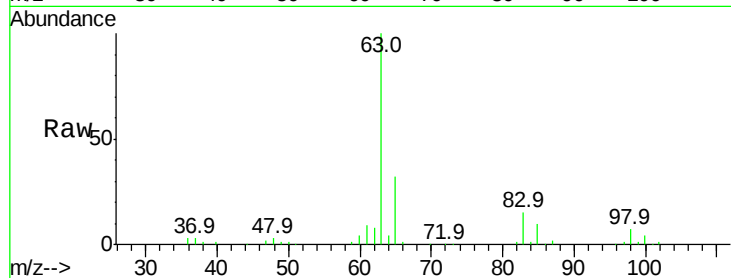
Tgt Ion: 63 Resp: 183475

Ion Ratio Lower Upper

63 100

65 31.9 20.9 38.9

83 14.8 10.4 19.4



#21

2-Butanone

Concen: 103.382 ug/L

RT: 4.01 min Scan# 908

Delta R.T. -0.00 min

Lab File: VV009634.D

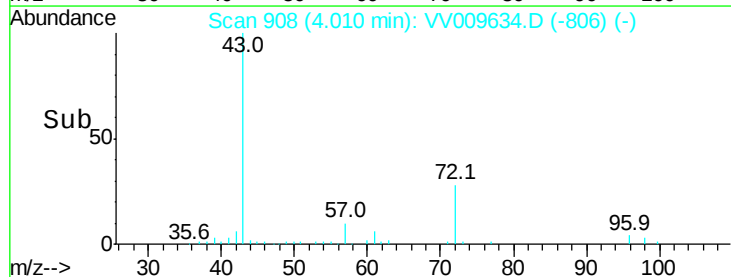
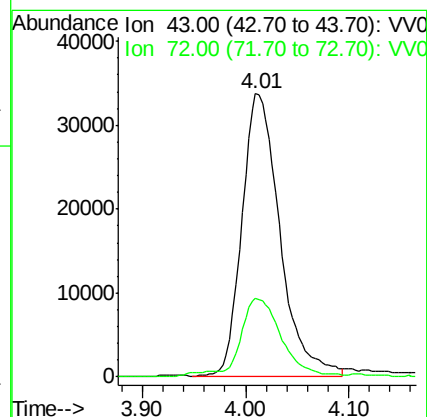
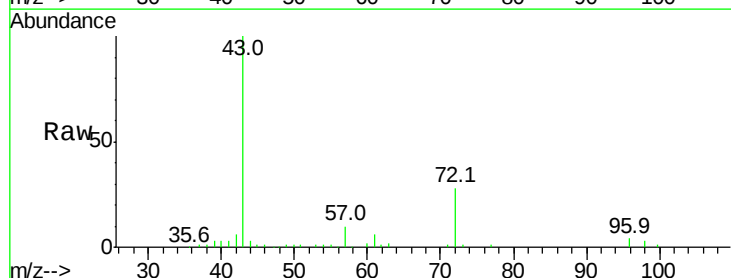
Acq: 13 Mar 2019 11:53

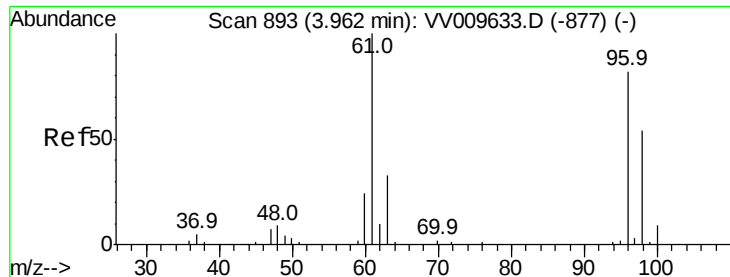
Tgt Ion: 43 Resp: 87086

Ion Ratio Lower Upper

43 100

72 26.7 14.5 43.5



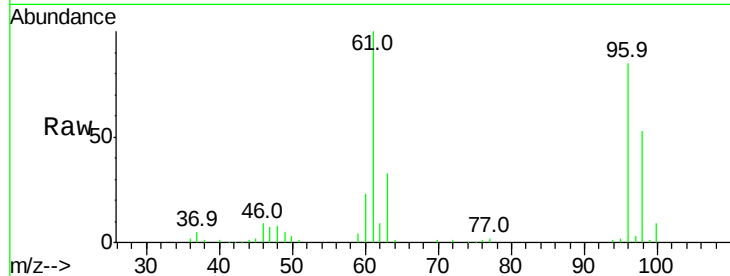


#22

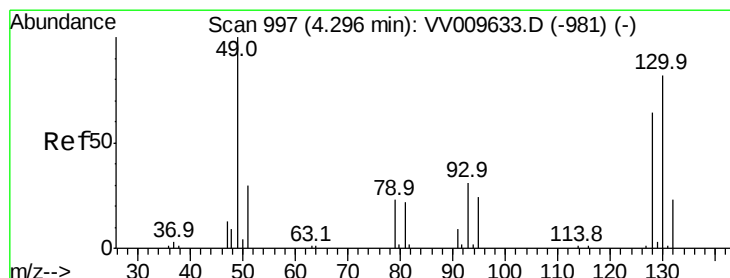
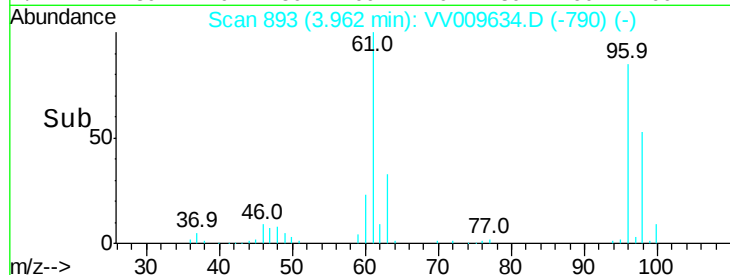
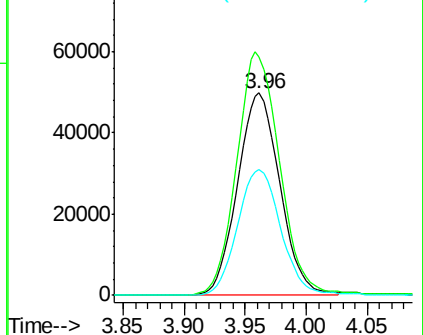
cis-1,2-Dichloroethene
Concen: 55.530 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

Tgt Ion: 96 Resp: 119812
Ion Ratio Lower Upper
96 100
61 117.9 86.2 160.0
98 62.0 46.5 86.3



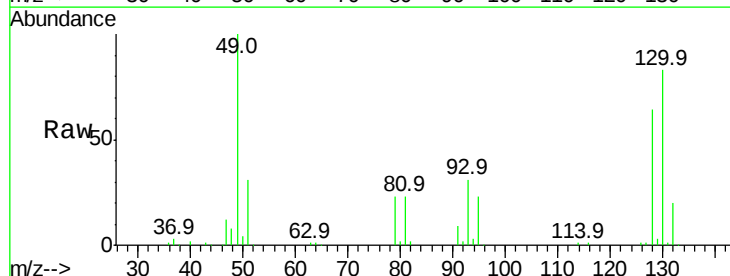
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



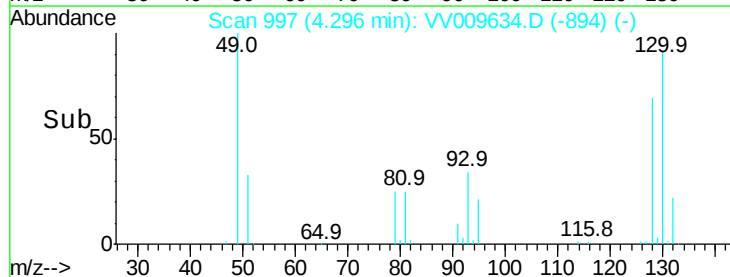
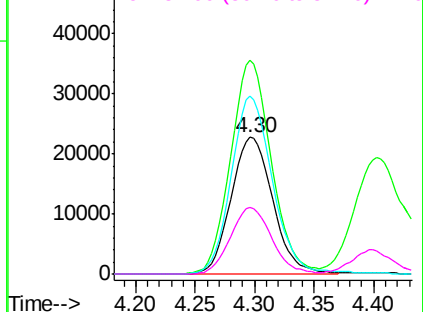
#23

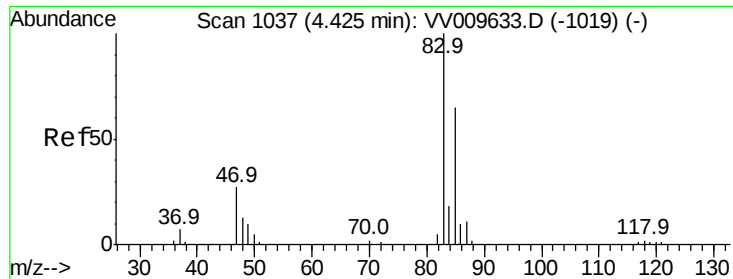
Bromochloromethane
Concen: 55.818 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion: 128 Resp: 55532
Ion Ratio Lower Upper
128 100
49 156.5 110.0 204.2
130 130.6 90.4 168.0
51 49.1 38.1 57.1



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

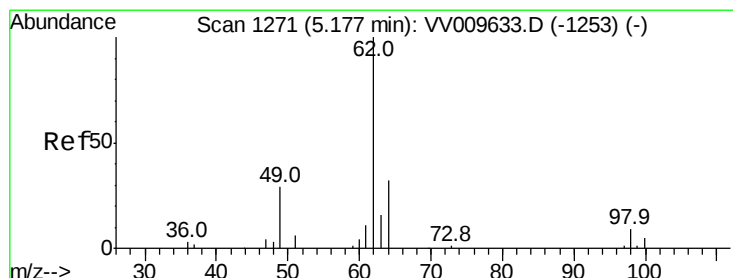
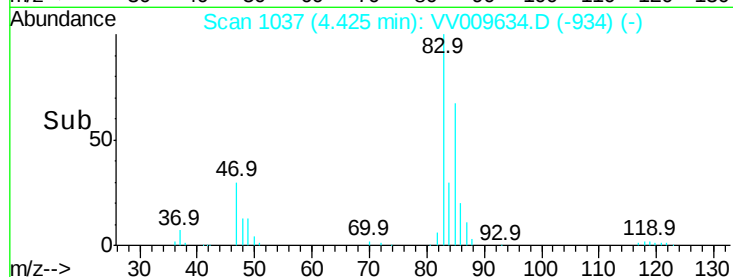
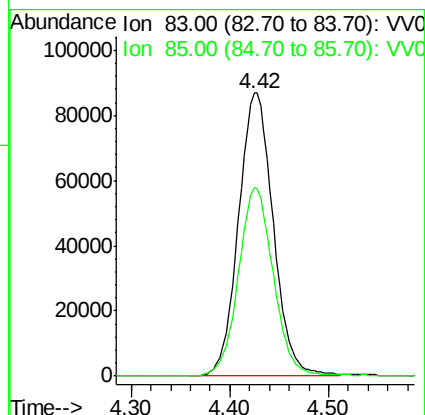
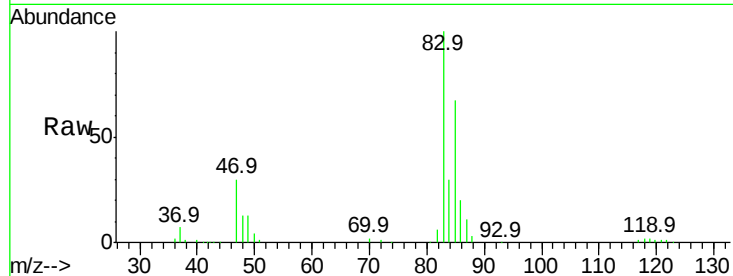




#25
Chloroform
Concen: 56.523 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

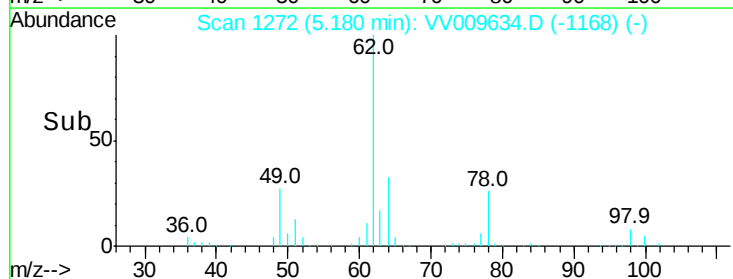
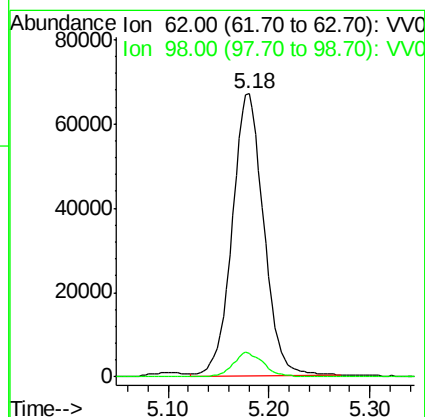
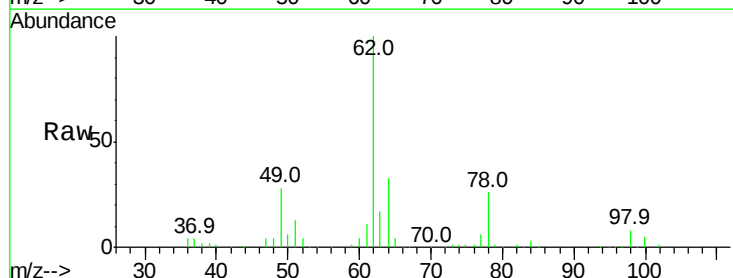
Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

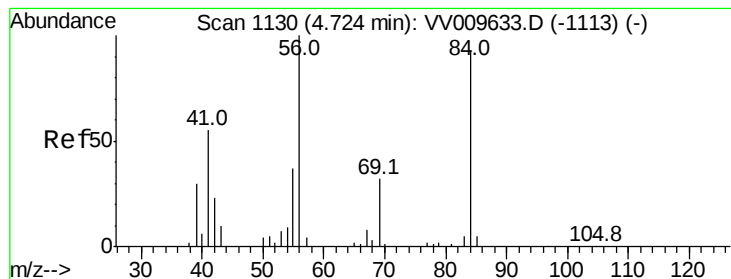
Tgt Ion: 83 Resp: 212421
Ion Ratio Lower Upper
83 100
85 66.9 46.4 86.2



#27
1,2-Dichloroethane
Concen: 56.095 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion: 62 Resp: 146412
Ion Ratio Lower Upper
62 100
98 8.3 7.2 10.8





#30

Cyclohexane

Concen: 51.751 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05081

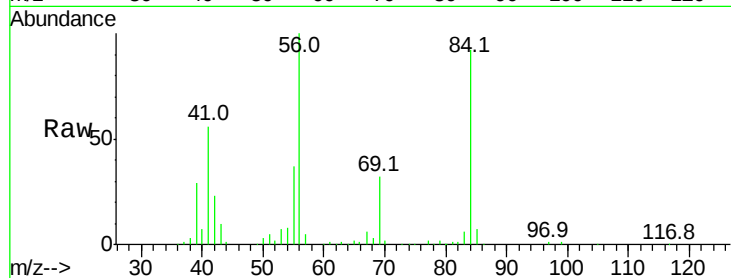
Tgt Ion: 56 Resp: 172318

Ion Ratio Lower Upper

56 100

69 31.6 25.4 38.0

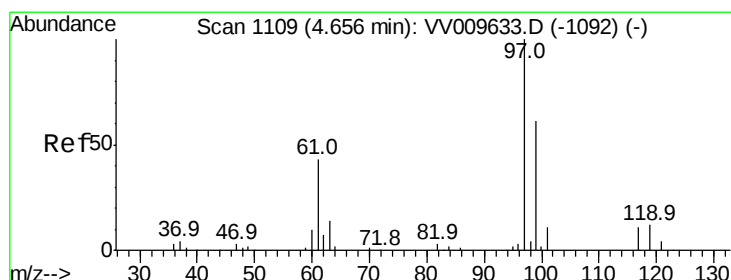
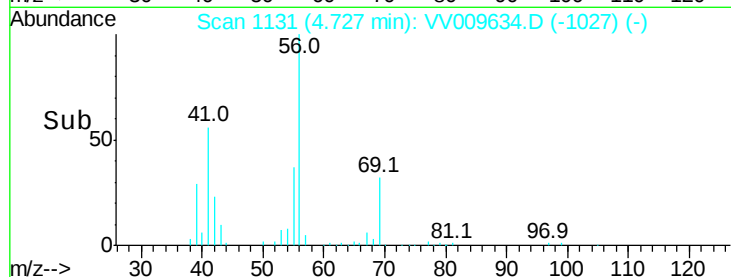
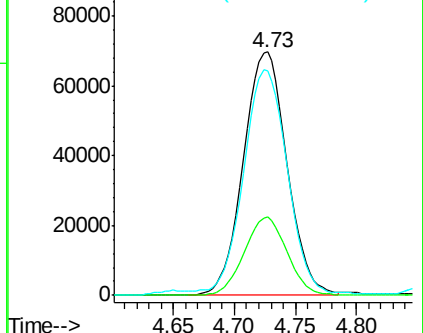
84 90.5 72.6 109.0



Abundance Ion 56.00 (55.70 to 56.70): VV009633.D (-1113) (-)

Ion 69.00 (68.70 to 69.70): VV009633.D (-1113) (-)

Ion 84.00 (83.70 to 84.70): VV009633.D (-1113) (-)



#31

1,1,1-Trichloroethane

Concen: 51.539 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

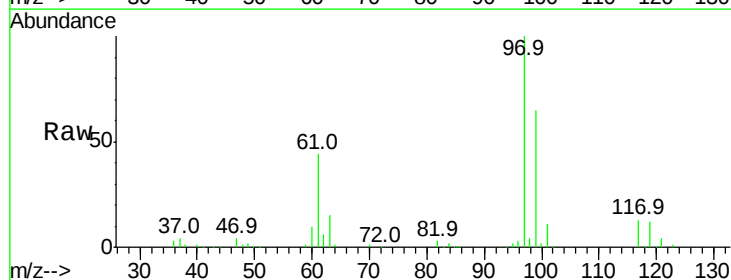
Tgt Ion: 97 Resp: 180767

Ion Ratio Lower Upper

97 100

99 64.4 51.0 76.6

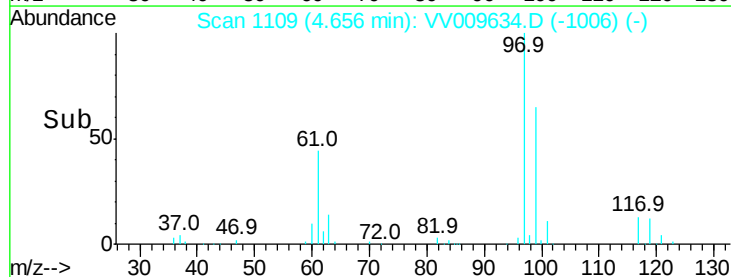
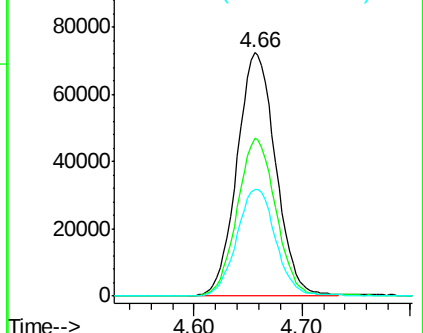
61 44.0 33.7 50.5

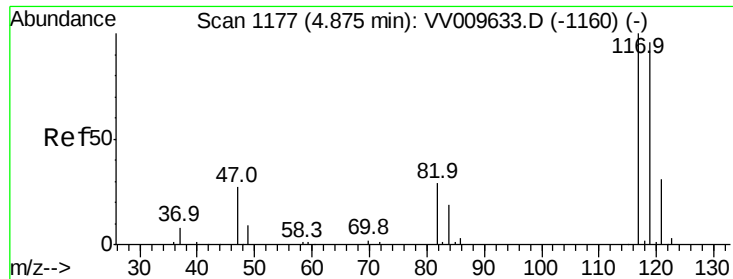


Abundance Ion 97.00 (96.70 to 97.70): VV009633.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV009633.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV009633.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 54.135 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

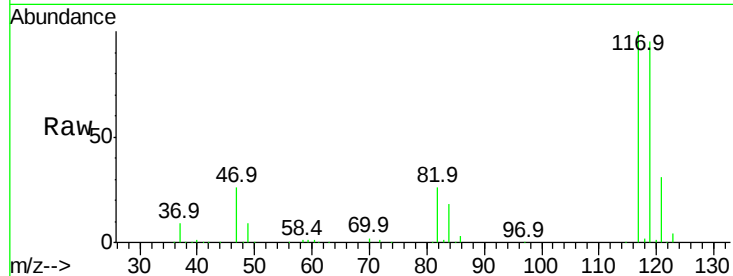
VSTD05081

Tgt Ion:117 Resp: 160525

Ion Ratio Lower Upper

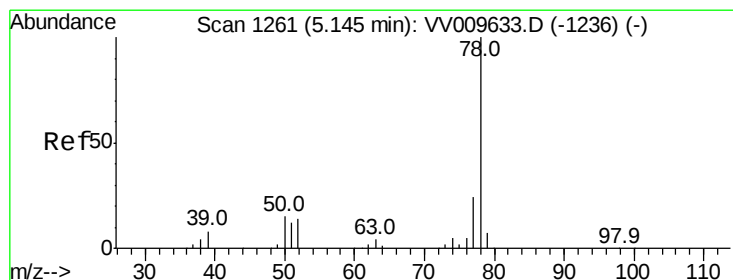
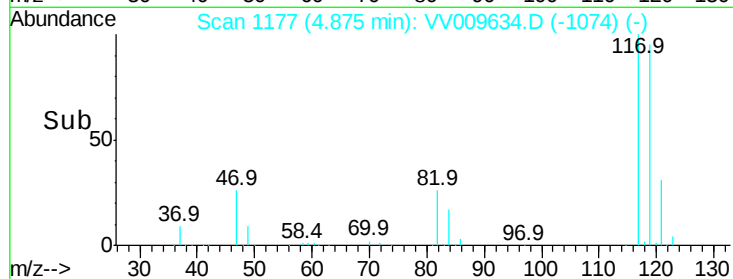
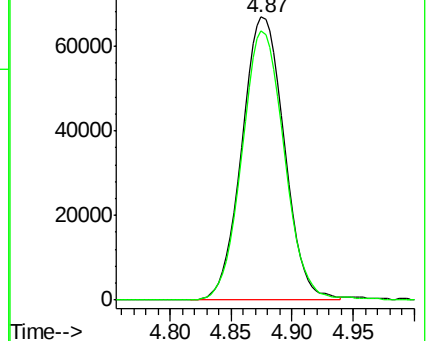
117 100

119 95.4 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 53.931 ug/L

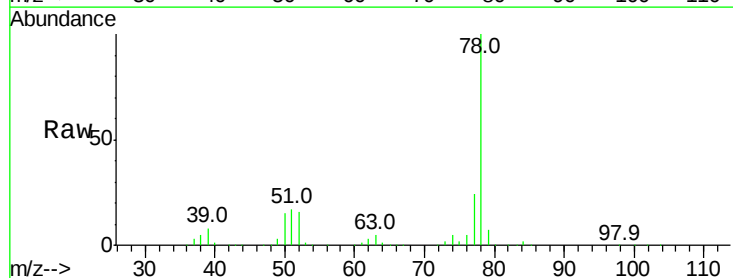
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

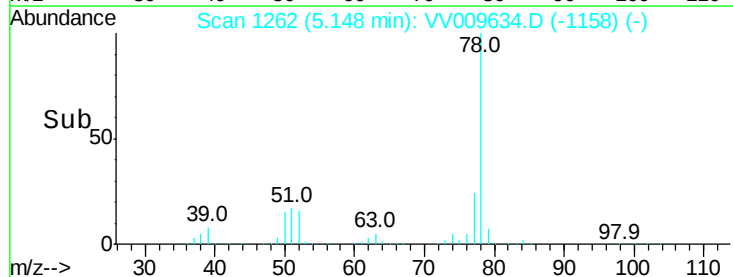
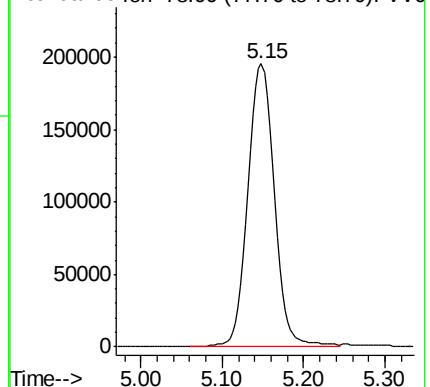
Lab File: VV009634.D

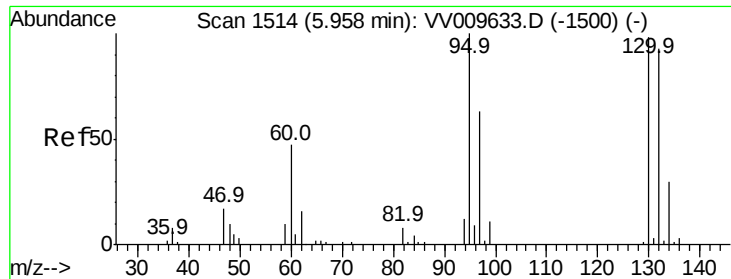
Acq: 13 Mar 2019 11:53

Tgt Ion: 78 Resp: 437223



Abundance Ion 78.00 (77.70 to 78.70): VV0

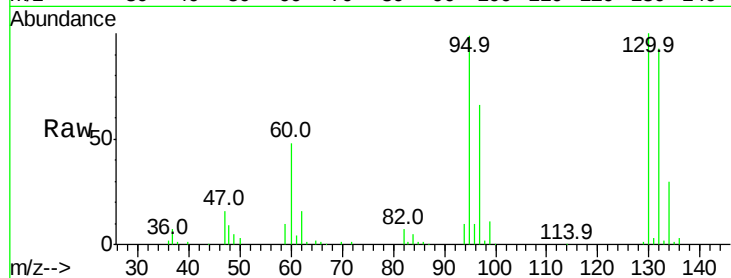




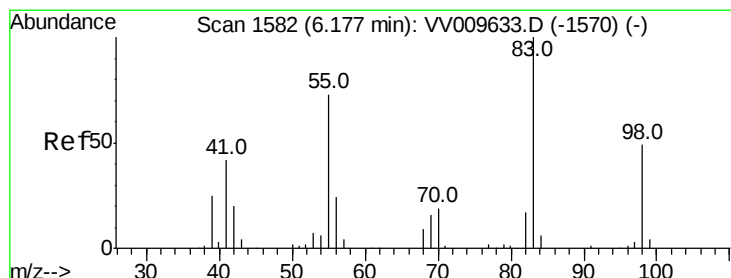
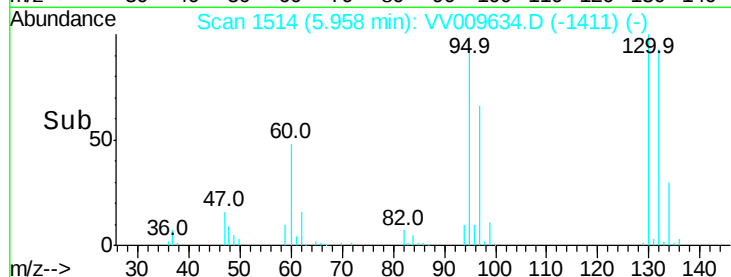
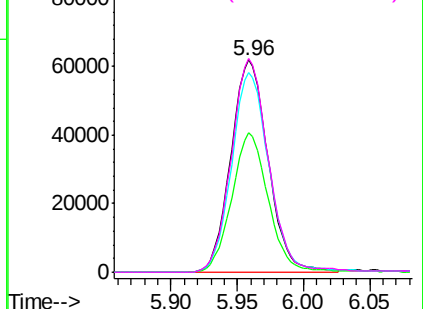
#35
 Trichloroethene
 Concen: 51.908 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV009634.D
 Acq: 13 Mar 2019 11:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05081

Tgt Ion: 95 Resp: 120938
 Ion Ratio Lower Upper
 95 100
 97 64.6 44.9 83.5
 132 94.9 66.4 123.2
 130 99.5 70.2 130.4

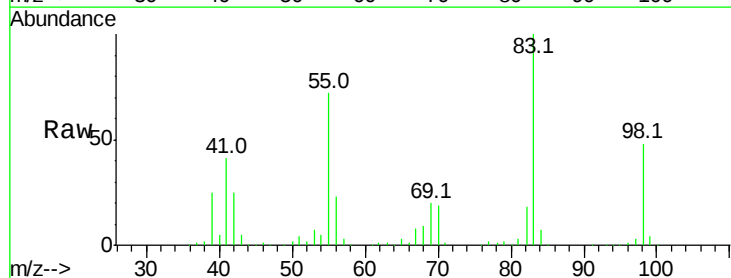


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

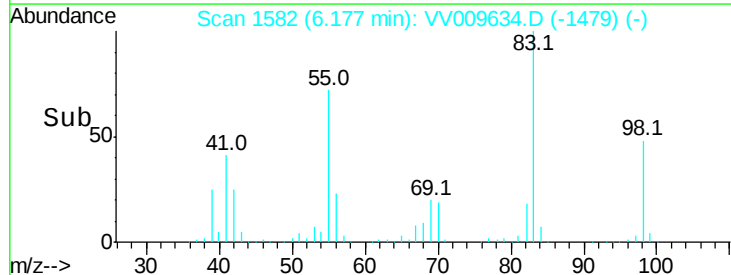
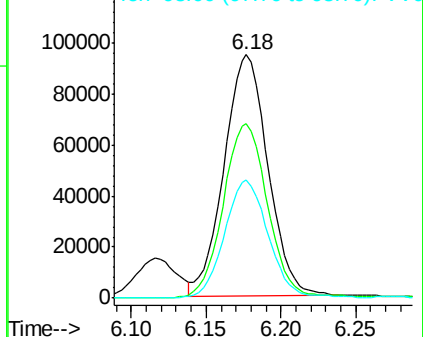


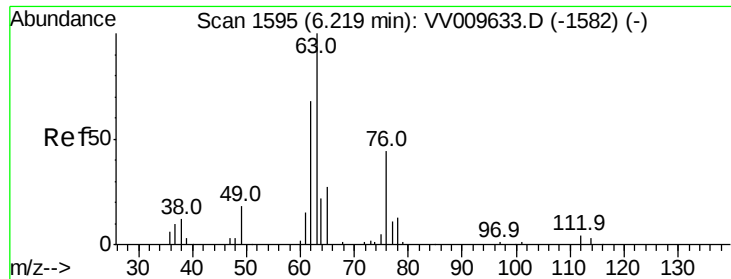
#36
 Methylcyclohexane
 Concen: 50.874 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV009634.D
 Acq: 13 Mar 2019 11:53

Tgt Ion: 83 Resp: 193089
 Ion Ratio Lower Upper
 83 100
 55 73.3 57.4 86.0
 98 48.5 37.1 55.7



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





#40

1,2-Dichloropropane

Concen: 49.853 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

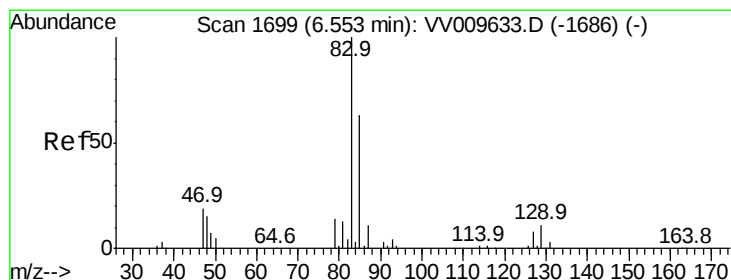
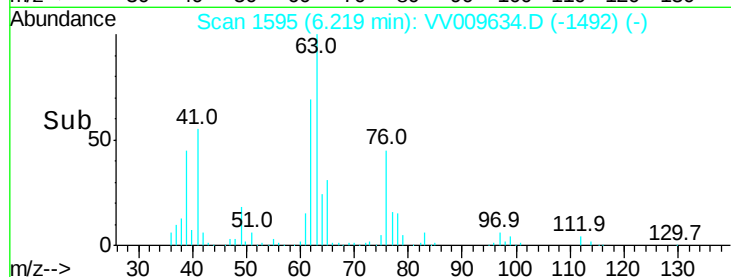
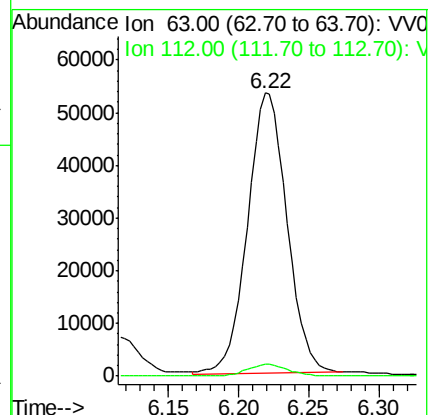
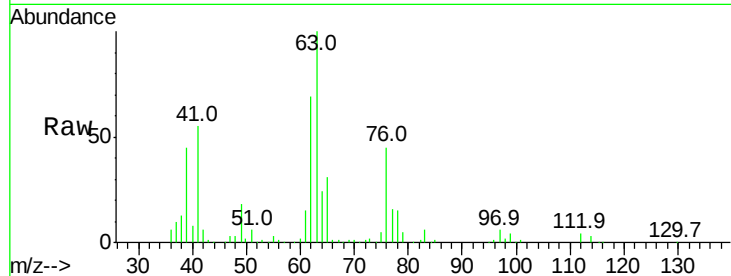
VSTD05081

Tgt Ion: 63 Resp: 104210

Ion Ratio Lower Upper

63 100

112 4.3 3.2 4.8



#41

Bromodichloromethane

Concen: 55.175 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

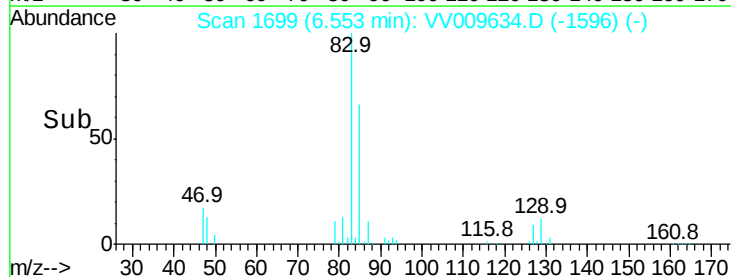
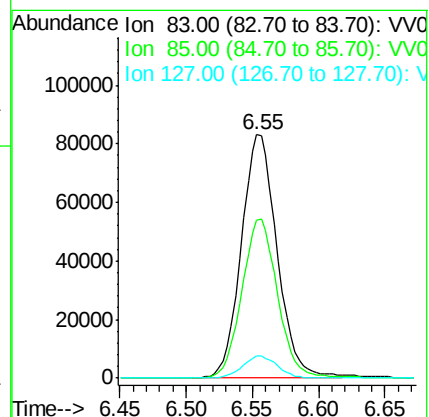
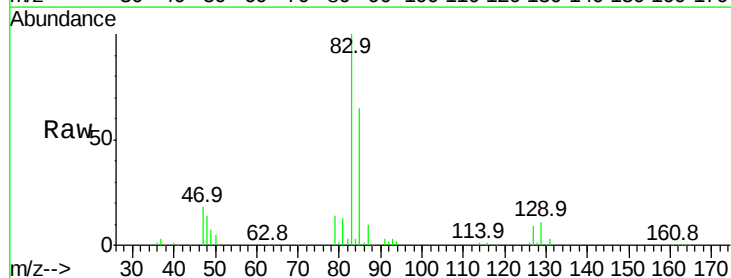
Tgt Ion: 83 Resp: 155676

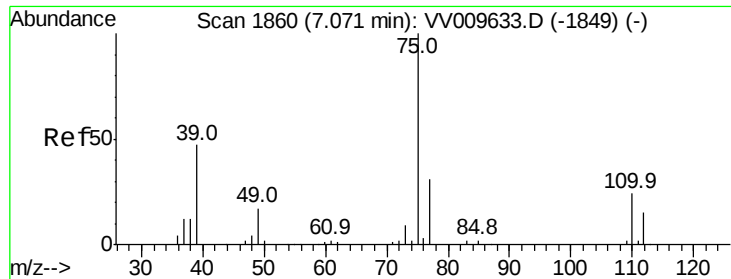
Ion Ratio Lower Upper

83 100

85 64.7 44.4 82.4

127 9.1 6.7 10.1



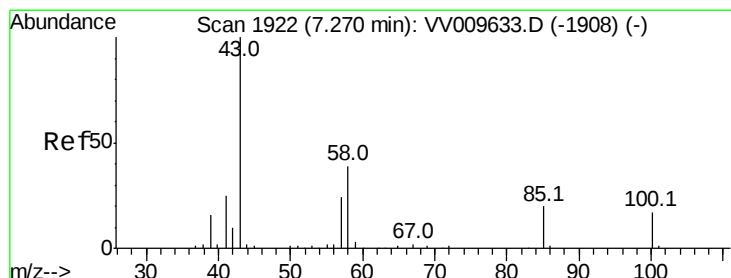
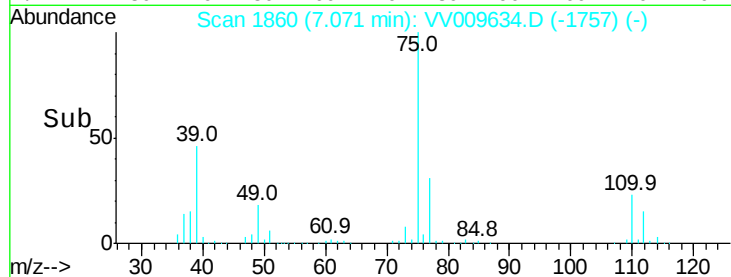
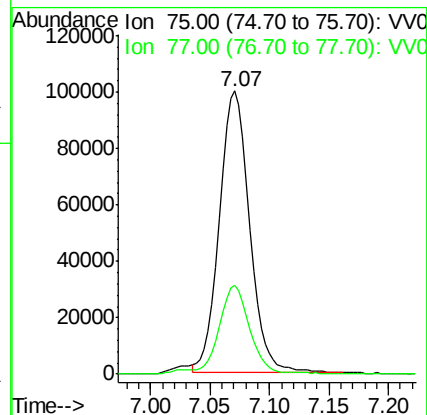
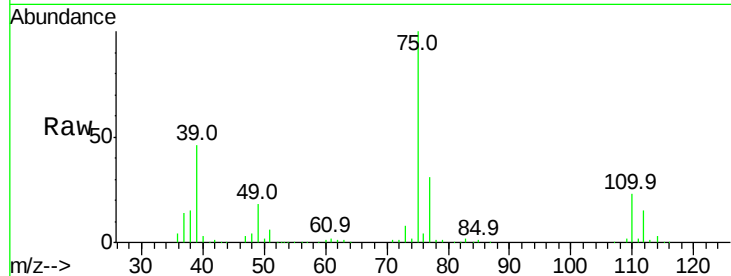


#42

cis-1,3-Dichloropropene
Concen: 54.223 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

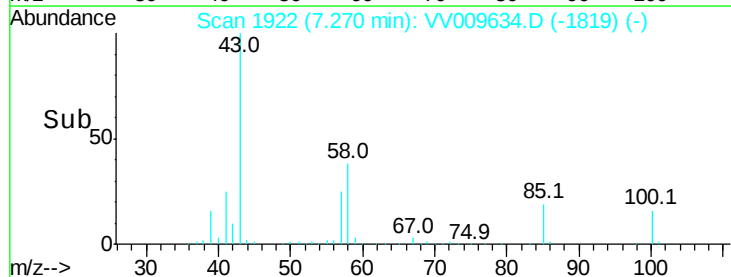
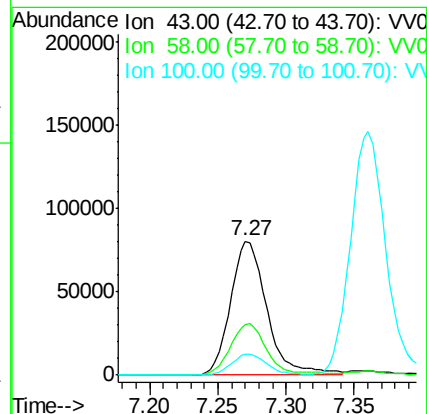
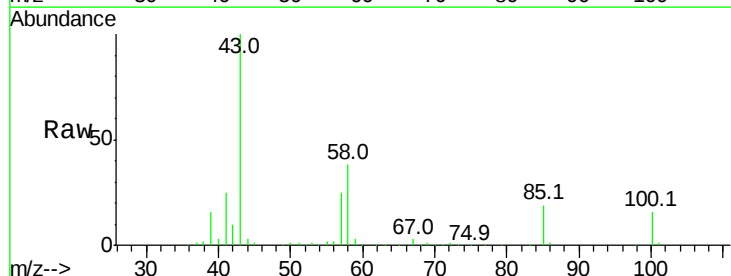
Tgt Ion: 75 Resp: 175965
Ion Ratio Lower Upper
75 100
77 31.4 22.0 40.8

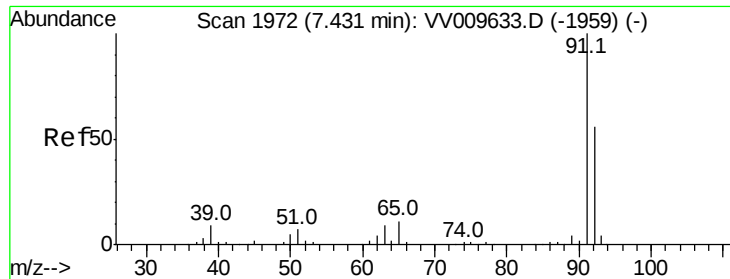


#43

4-Methyl-2-pentanone
Concen: 90.394 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion: 43 Resp: 148952
Ion Ratio Lower Upper
43 100
58 37.7 30.9 46.3
100 15.5 11.8 17.6





#44

Toluene

Concen: 54.965 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

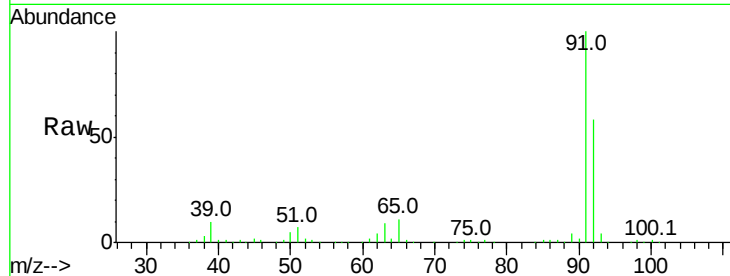
VSTD05081

Tgt Ion: 91 Resp: 503697

Ion Ratio Lower Upper

91 100

92 58.0 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VV009633.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009633.D (-1959) (-)

7.43

300000

250000

200000

150000

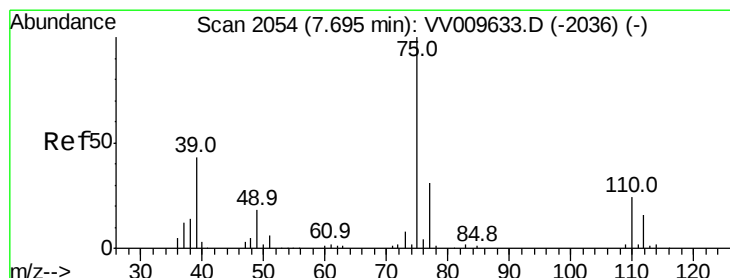
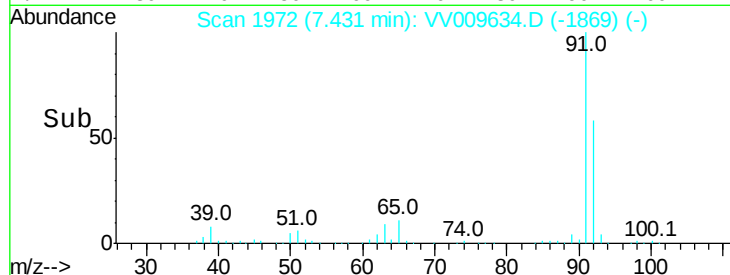
100000

50000

0

7.40 7.50 7.60

Time-->



#45

trans-1,3-Dichloropropene

Concen: 54.472 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009634.D

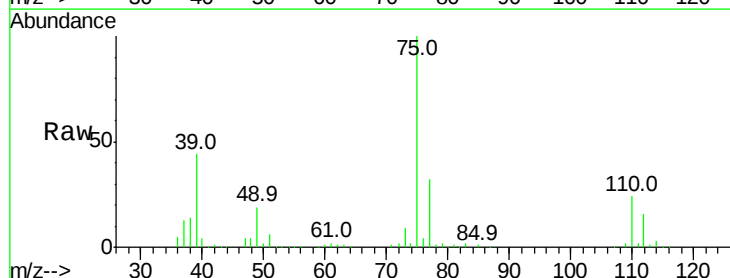
Acq: 13 Mar 2019 11:53

Tgt Ion: 75 Resp: 154385

Ion Ratio Lower Upper

75 100

77 32.0 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV009633.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV009633.D (-2036) (-)

7.69

100000

80000

60000

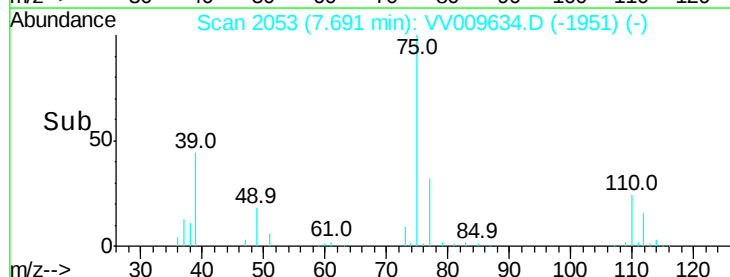
40000

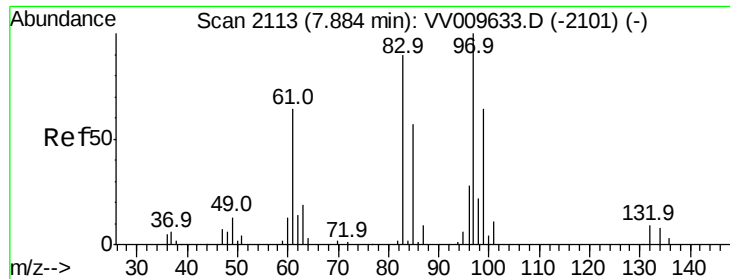
20000

0

7.60 7.70 7.80

Time-->

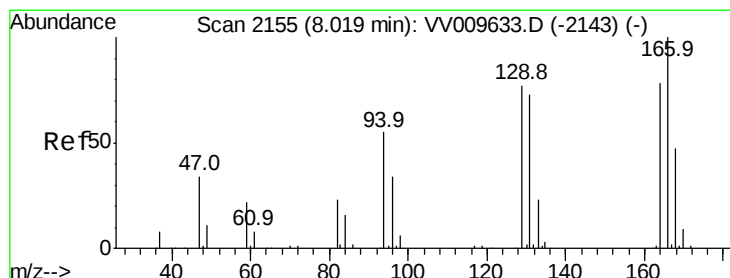
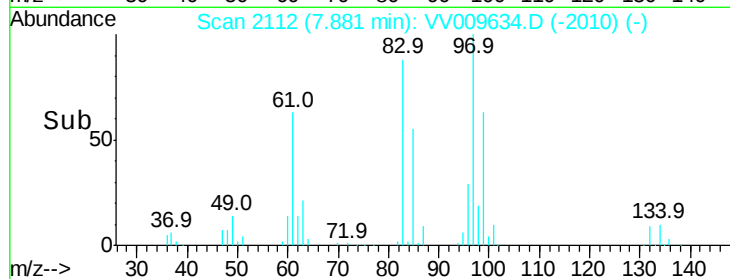
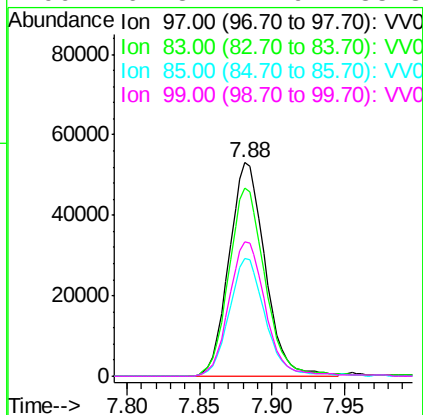
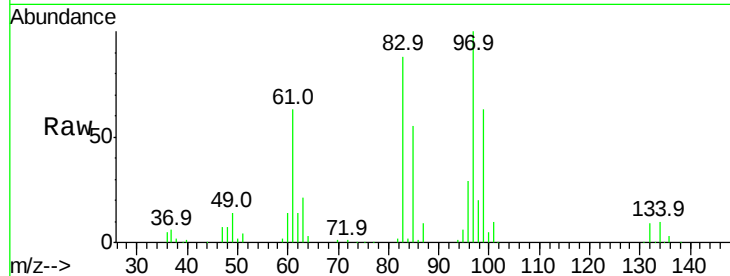




#46
1,1,2-Trichloroethane
Concen: 52.755 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

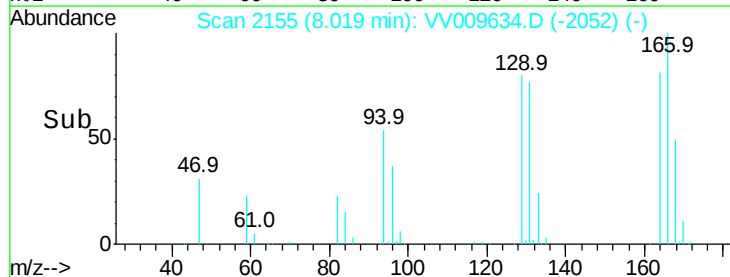
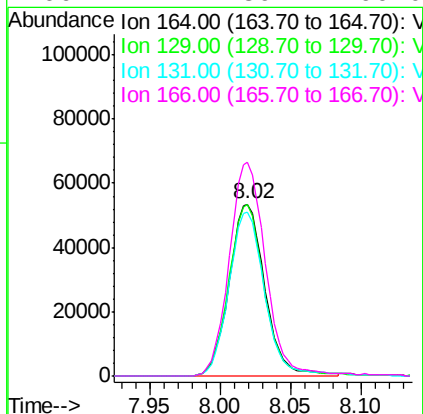
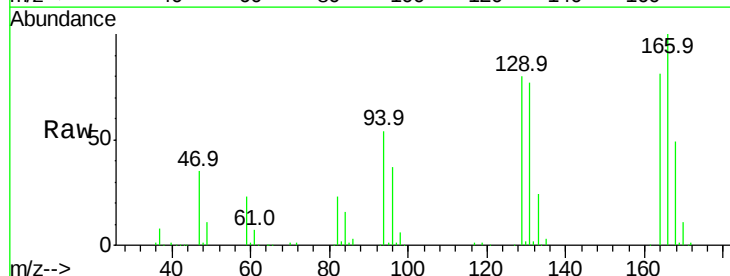
Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

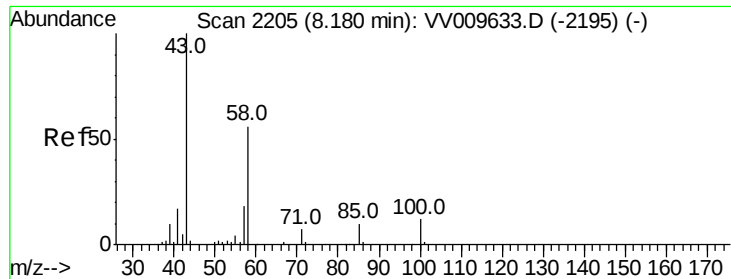
Tgt Ion:	97	Resp:	91616
Ion	Ratio	Lower	Upper
97	100		
83	88.3	62.9	116.7
85	55.4	40.0	74.2
99	62.8	44.9	83.3



#47
Tetrachloroethene
Concen: 53.726 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion:	164	Resp:	94941
Ion	Ratio	Lower	Upper
164	100		
129	99.6	69.0	128.1
131	95.5	65.7	122.1
166	124.1	89.4	166.0

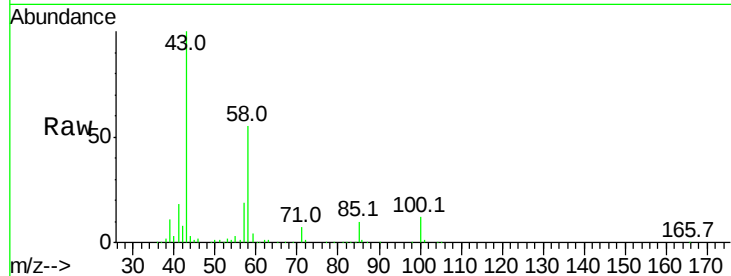




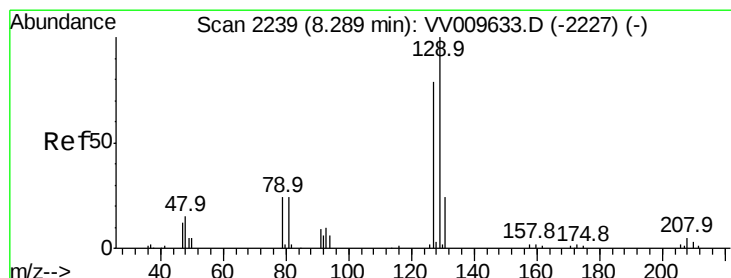
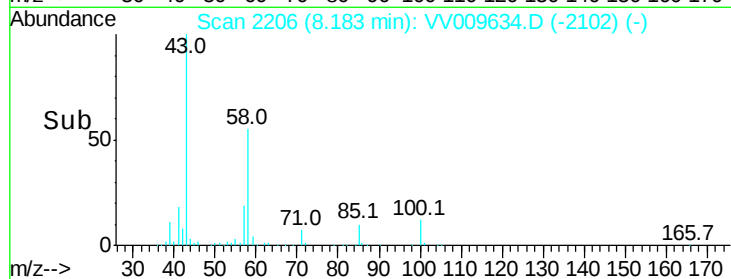
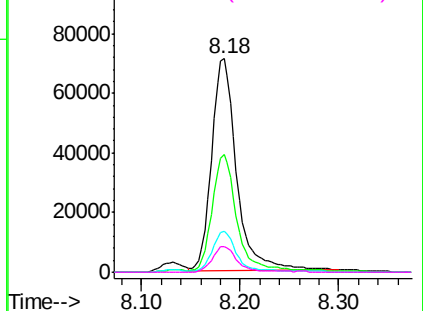
#49
2-Hexanone
Concen: 101.552 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Instrument :
MSVOA_V
ClientSampled :
VSTD05081

Tgt Ion: 43 Resp: 126536
Ion Ratio Lower Upper
43 100
58 52.9 44.9 67.3
57 17.8 14.5 21.7
100 12.0 9.3 13.9

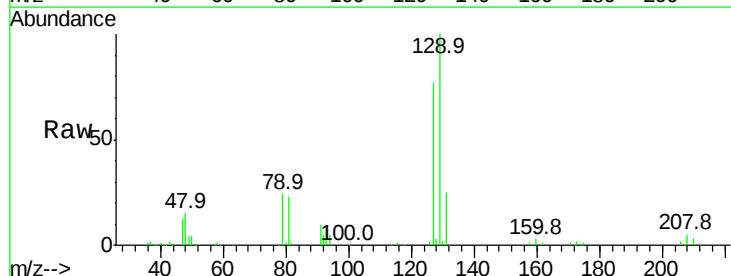


Abundance Ion 43.00 (42.70 to 43.70): VV009634.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV009634.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV009634.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV009634.D (-2195) (-)

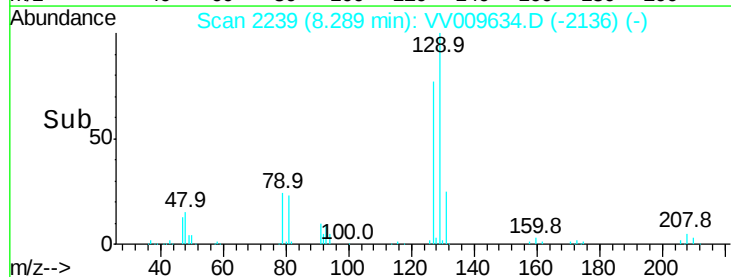
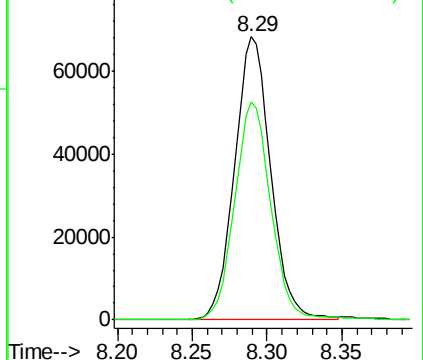


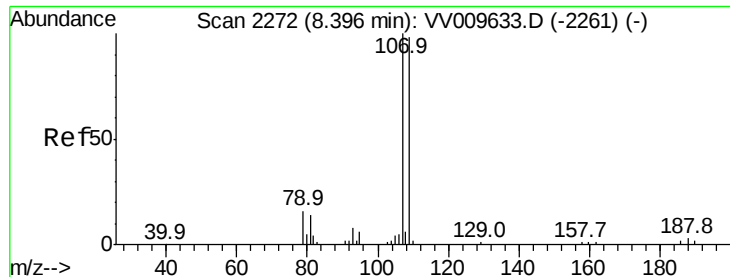
#50
Dibromochloromethane
Concen: 54.627 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion: 129 Resp: 114854
Ion Ratio Lower Upper
129 100
127 76.9 55.4 102.8



Abundance Ion 129.00 (128.70 to 129.70): VV009634.D (-2136) (-)
Ion 127.00 (126.70 to 127.70): VV009634.D (-2136) (-)

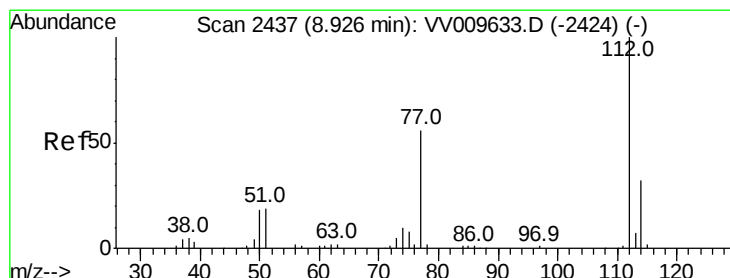
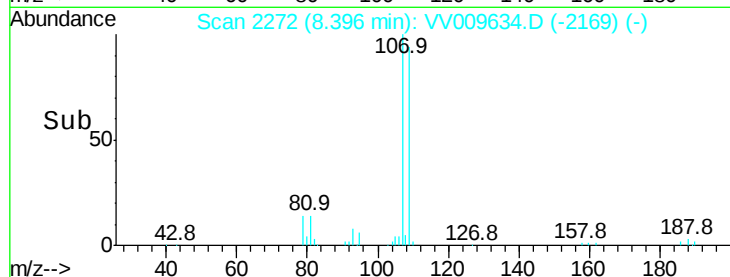
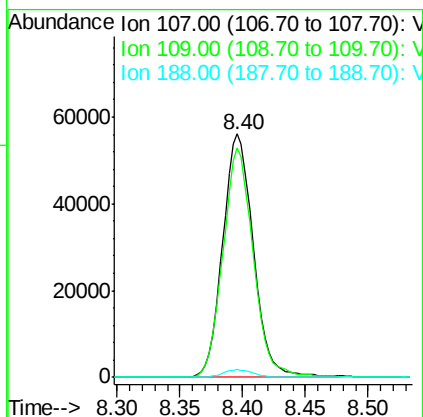
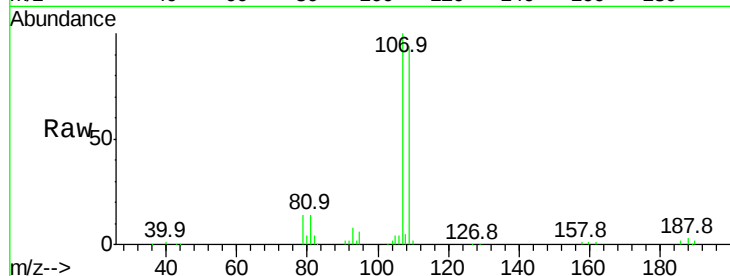




#51
1,2-Dibromoethane
Concen: 53.119 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

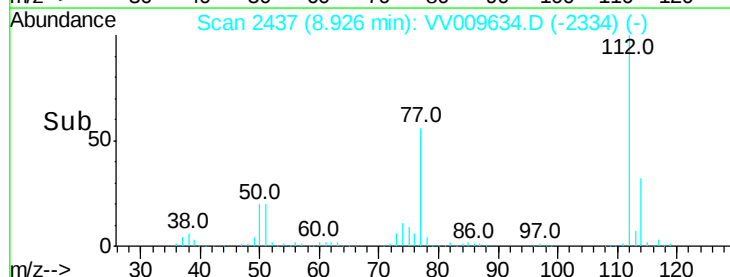
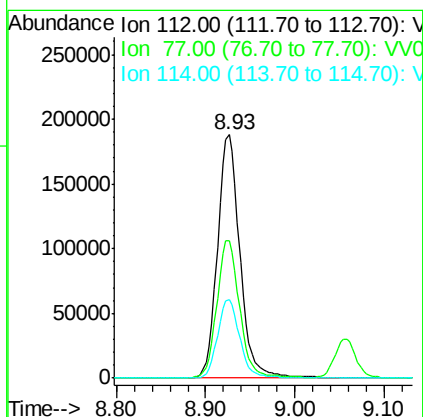
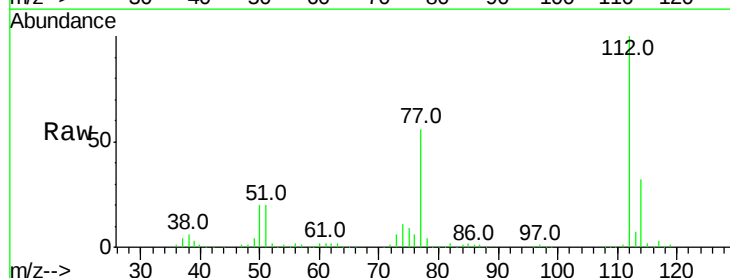
Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

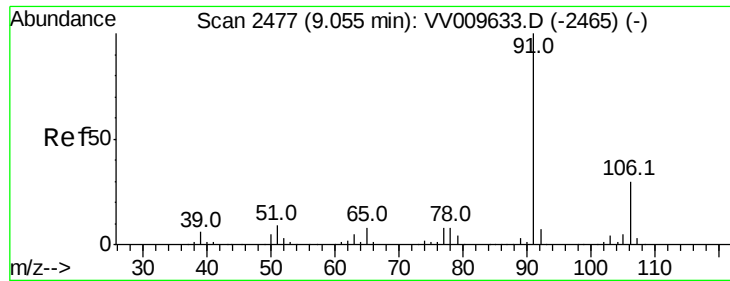
Tgt Ion:107 Resp: 95312
Ion Ratio Lower Upper
107 100
109 94.3 68.4 127.0
188 3.1 2.6 3.8



#52
Chlorobenzene
Concen: 53.885 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion:112 Resp: 327302
Ion Ratio Lower Upper
112 100
77 56.4 45.6 68.4
114 32.2 22.3 41.5

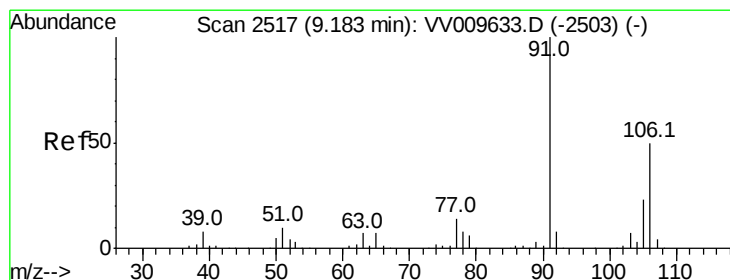
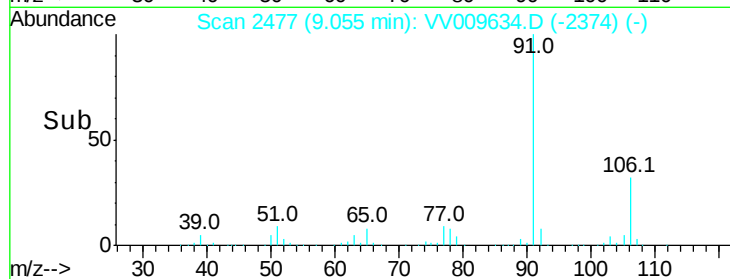
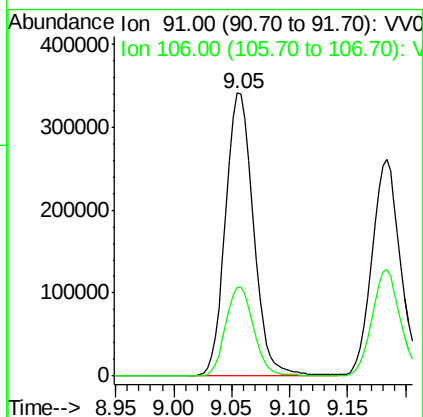
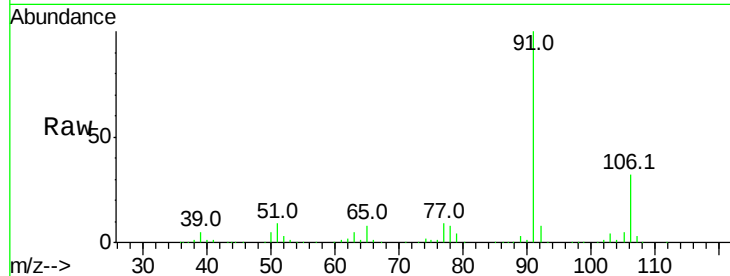




#53
Ethylbenzene
Concen: 54.443 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

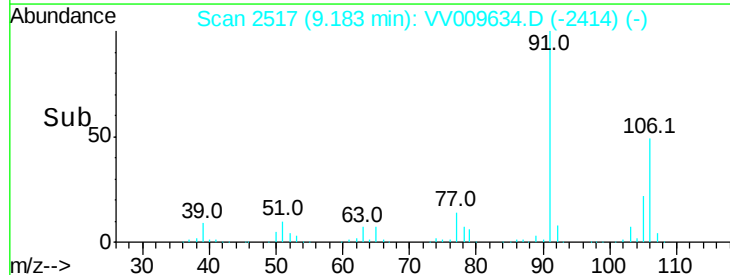
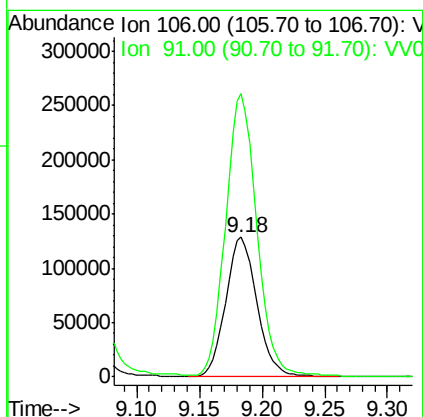
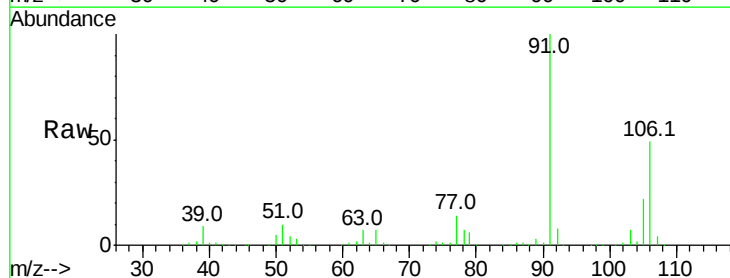
Instrument :
MSVOA_V
ClientSampleId :
VSTD05081

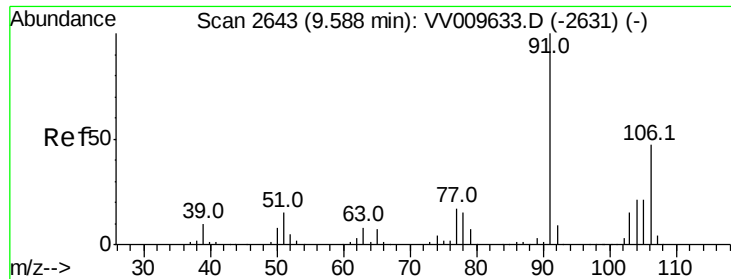
Tgt Ion: 91 Resp: 570910
Ion Ratio Lower Upper
91 100
106 31.5 21.1 39.1



#54
m,p-Xylene
Concen: 55.553 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009634.D
Acq: 13 Mar 2019 11:53

Tgt Ion: 106 Resp: 220487
Ion Ratio Lower Upper
106 100
91 202.5 141.4 262.6





#55

o-xylene

Concen: 56.635 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

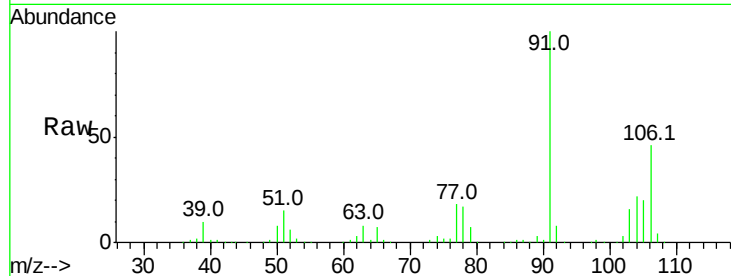
VSTD05081

Tgt Ion:106 Resp: 216749

Ion Ratio Lower Upper

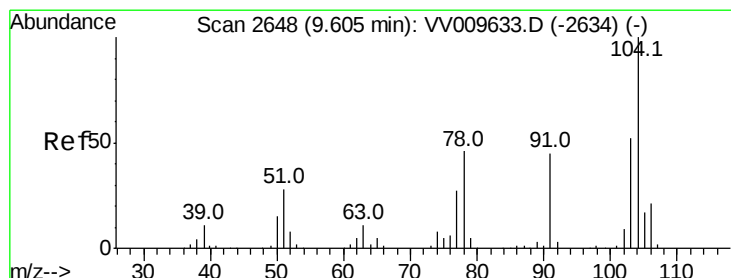
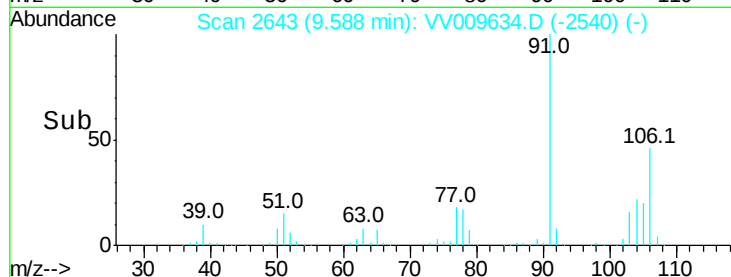
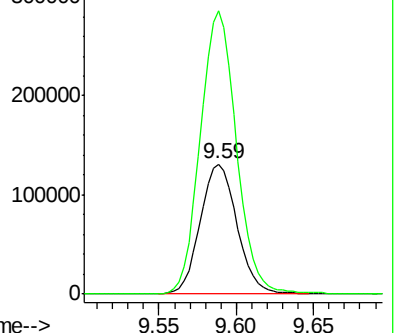
106 100

91 217.7 149.7 278.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 57.738 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009634.D

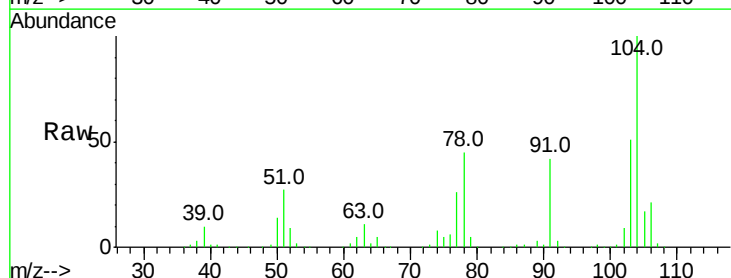
Acq: 13 Mar 2019 11:53

Tgt Ion:104 Resp: 363533

Ion Ratio Lower Upper

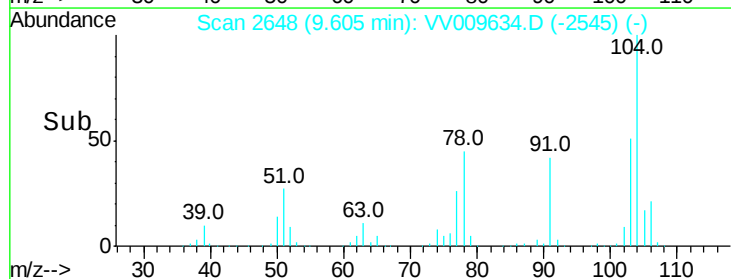
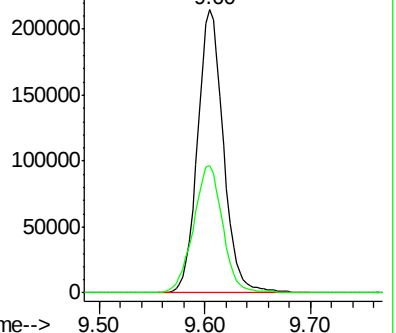
104 100

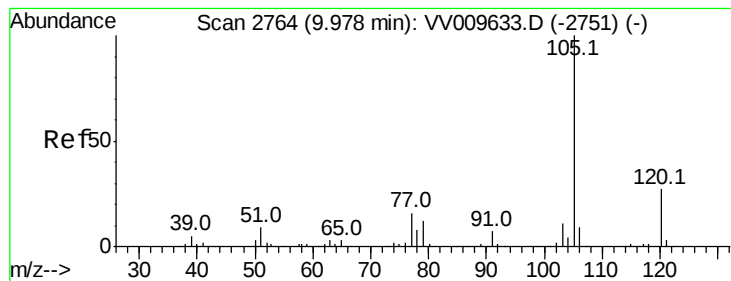
78 45.1 32.3 59.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 54.151 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05081

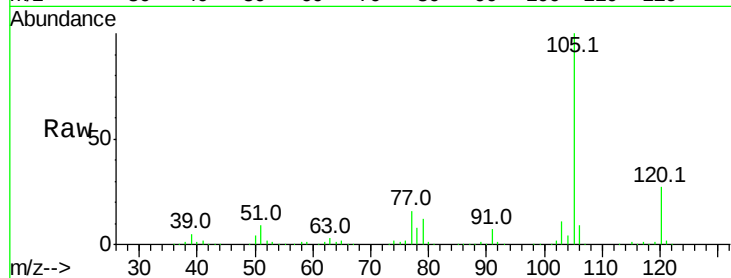
Tgt Ion:105 Resp: 571630

Ion Ratio Lower Upper

105 100

120 27.0 21.5 32.3

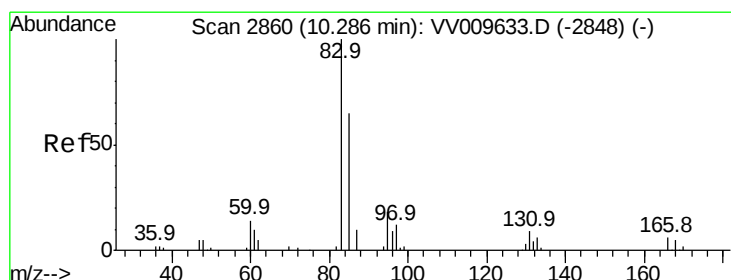
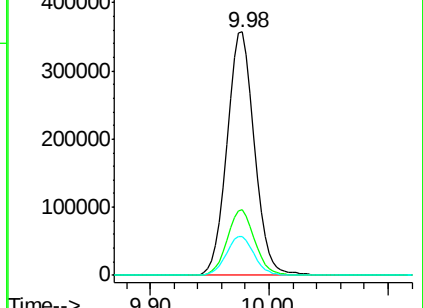
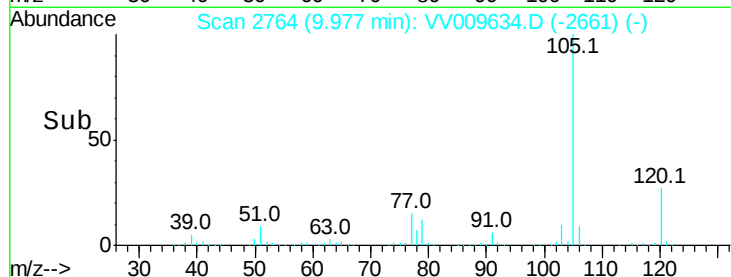
77 16.2 12.9 19.3



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: 51.054 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

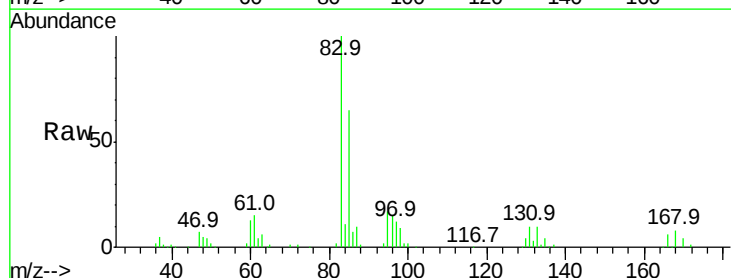
Tgt Ion: 83 Resp: 125194

Ion Ratio Lower Upper

83 100

85 64.5 46.1 85.7

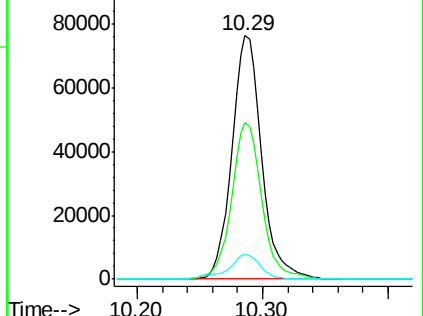
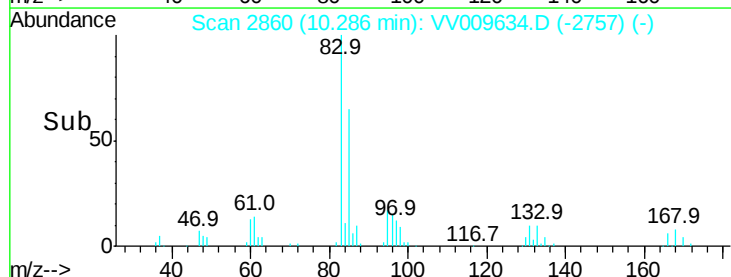
131 10.2 8.0 12.0

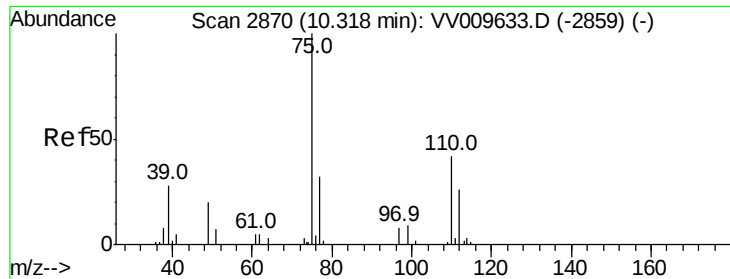


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.600 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

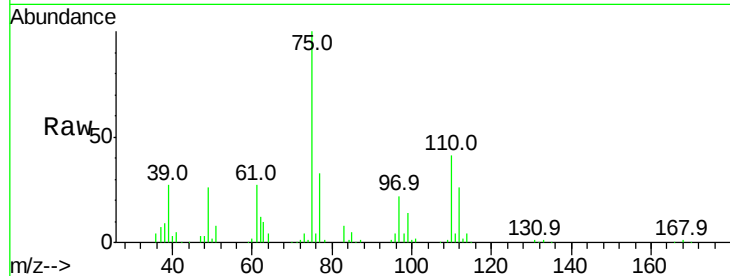
VSTD05081

Tgt Ion: 75 Resp: 87678

Ion Ratio Lower Upper

75 100

77 32.5 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VV009633.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009633.D (-2859) (-)

10.32

60000

50000

40000

30000

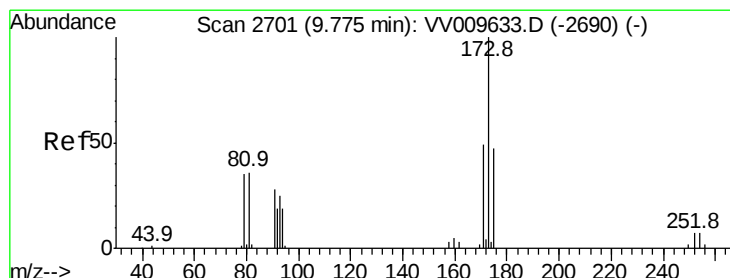
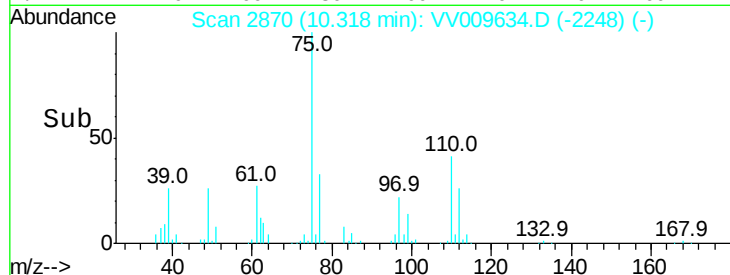
20000

10000

0

Time-->

10.25 10.30 10.35 10.40



#62

Bromoform

Concen: 51.457 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

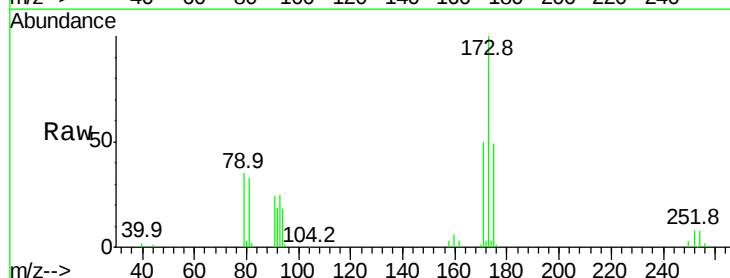
Tgt Ion: 173 Resp: 64130

Ion Ratio Lower Upper

173 100

175 48.4 37.8 56.6

254 7.6 6.1 9.1



Abundance Ion 173.00 (172.70 to 173.70): VV009633.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009633.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009633.D (-2690) (-)

9.78

50000

40000

30000

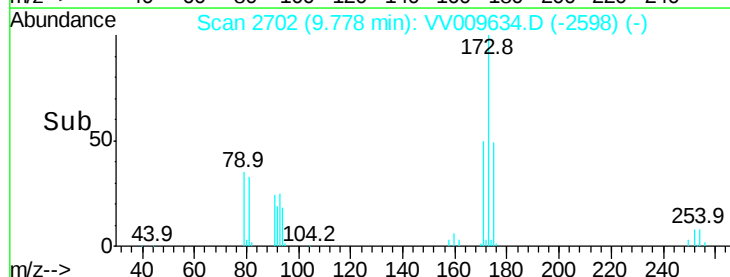
20000

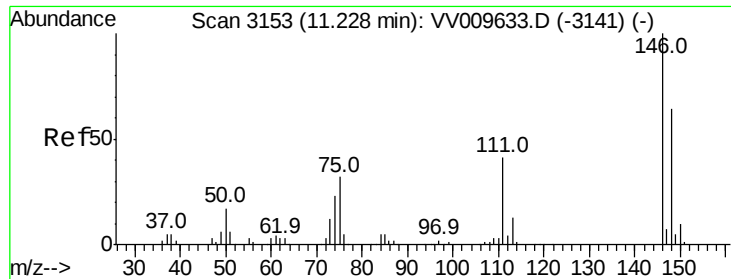
10000

0

Time-->

9.70 9.75 9.80 9.85

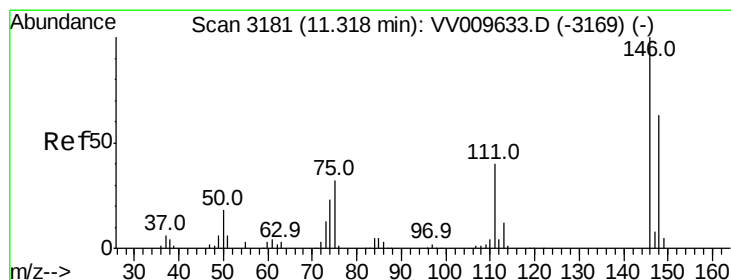
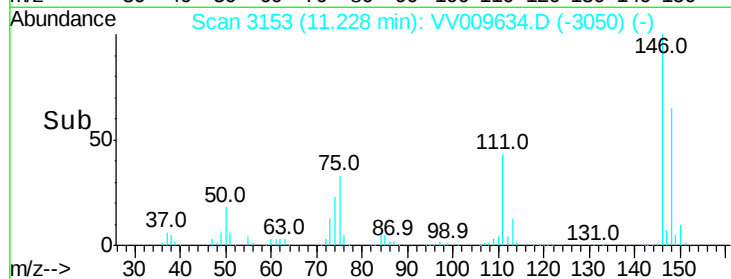
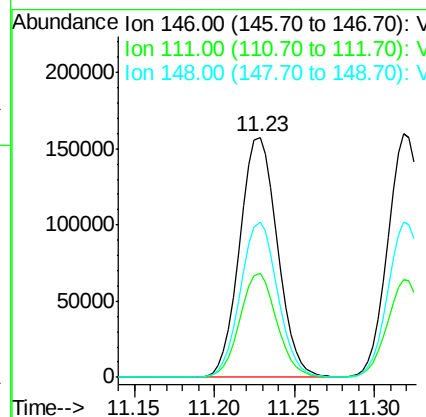
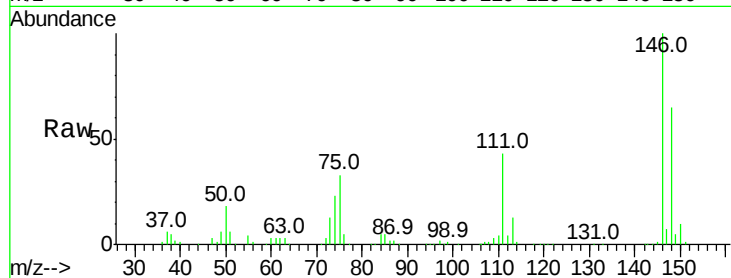




#63
 1,3-Dichlorobenzene
 Concen: 52.722 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009634.D
 Acq: 13 Mar 2019 11:53

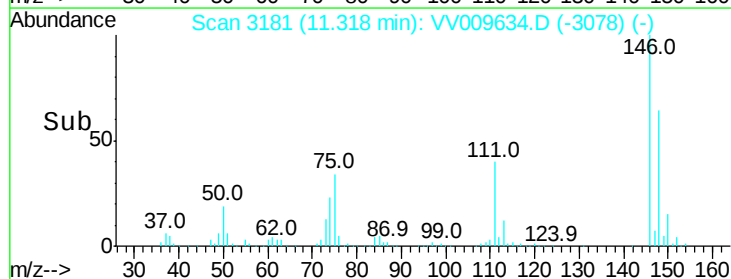
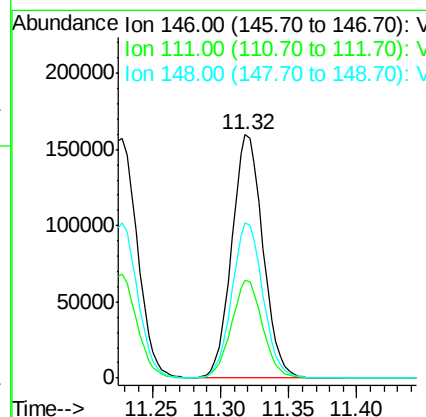
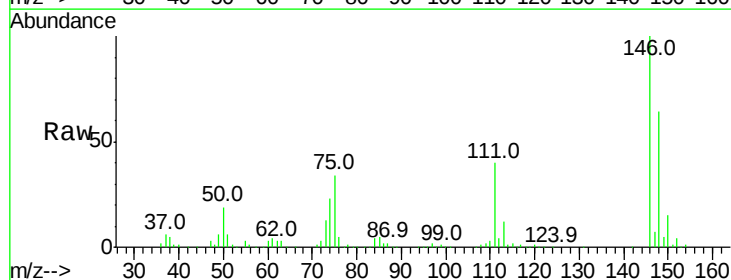
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05081

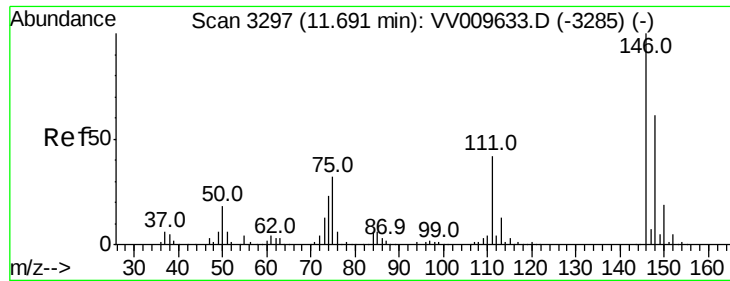
Tgt Ion:146 Resp: 252922
 Ion Ratio Lower Upper
 146 100
 111 43.2 28.8 53.6
 148 65.0 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 51.667 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009634.D
 Acq: 13 Mar 2019 11:53

Tgt Ion:146 Resp: 253280
 Ion Ratio Lower Upper
 146 100
 111 40.4 28.2 52.4
 148 63.6 44.2 82.0





#65

1,2-Dichlorobenzene

Concen: 53.579 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05081

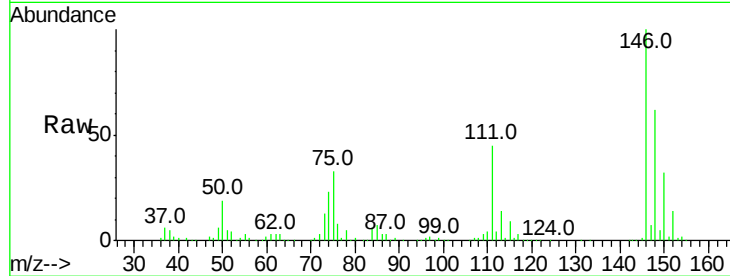
Tgt Ion:146 Resp: 239705

Ion Ratio Lower Upper

146 100

111 44.6 33.8 50.6

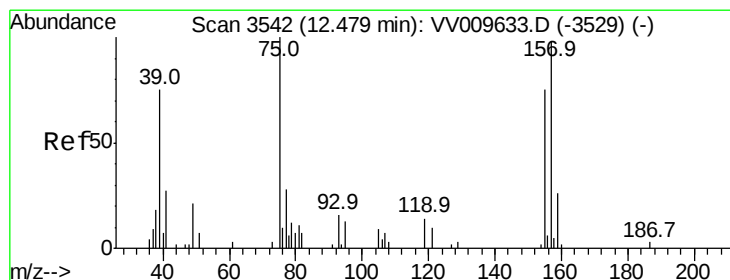
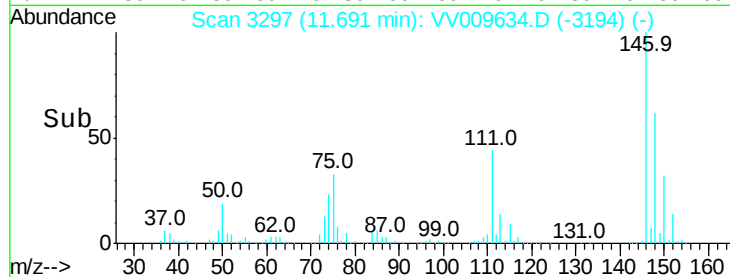
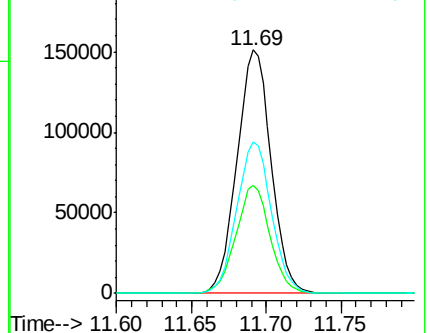
148 62.1 49.1 73.7



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: 42.368 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

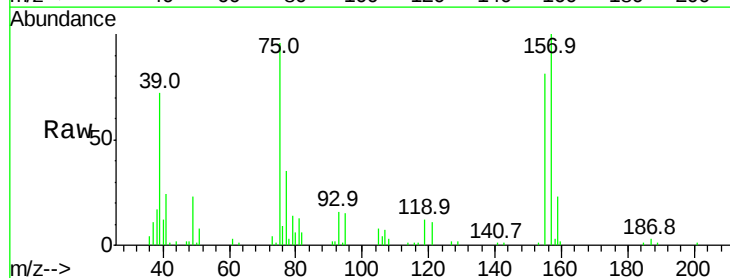
Tgt Ion: 75 Resp: 18985

Ion Ratio Lower Upper

75 100

157 103.7 78.6 118.0

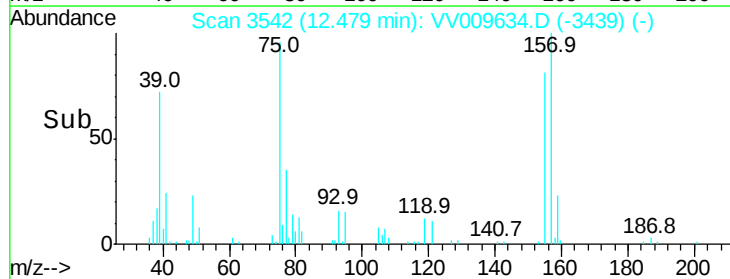
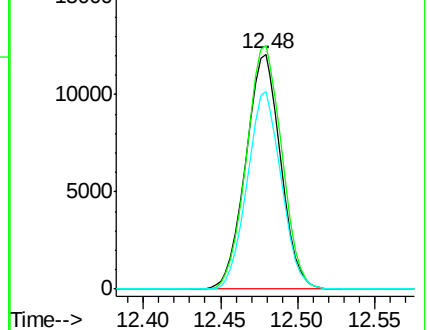
155 84.0 60.0 90.0

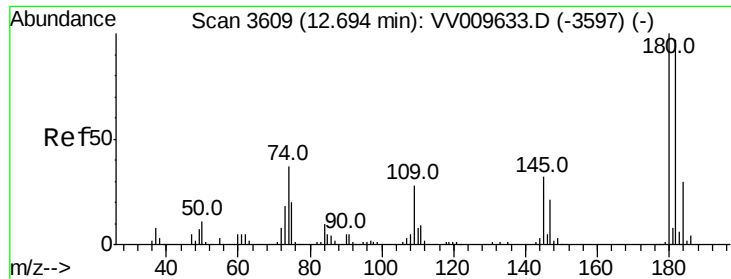


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

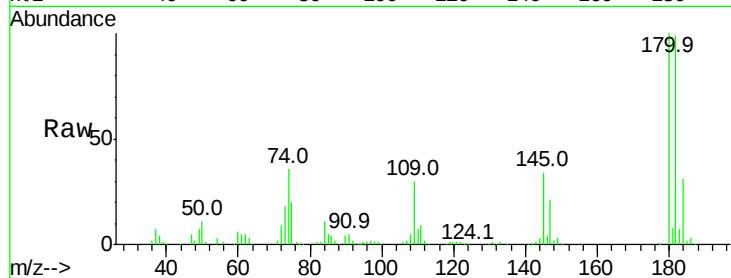




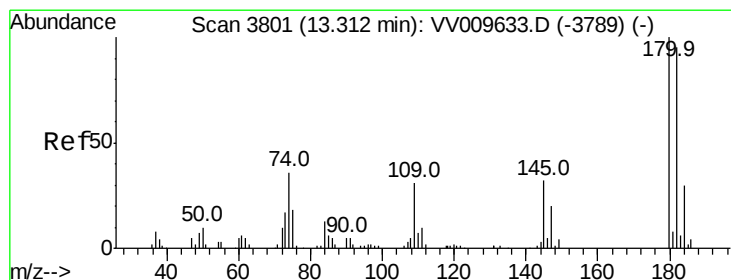
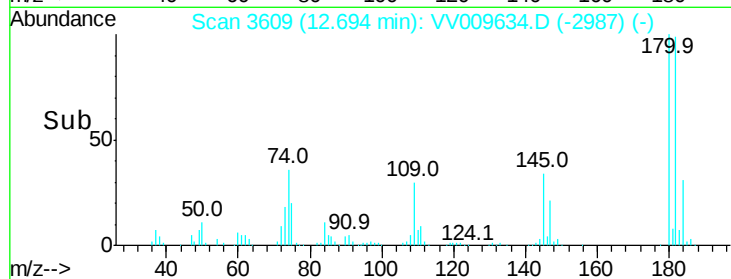
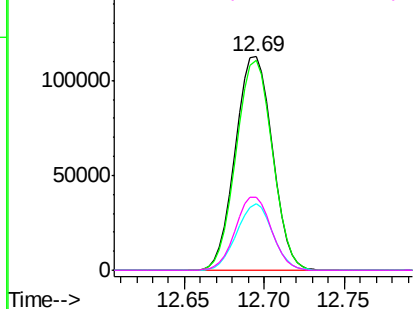
#67
 1,3,5-Trichlorobenzene
 Concen: 51.577 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009634.D
 Acq: 13 Mar 2019 11:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05081

Tgt Ion:180 Resp: 177479
 Ion Ratio Lower Upper
 180 100
 182 96.3 76.3 114.5
 184 30.1 23.8 35.8
 145 33.2 25.8 38.8

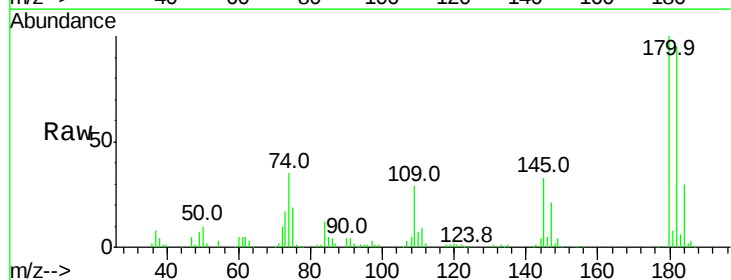


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

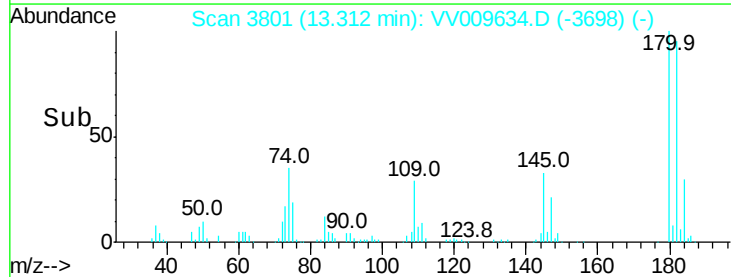
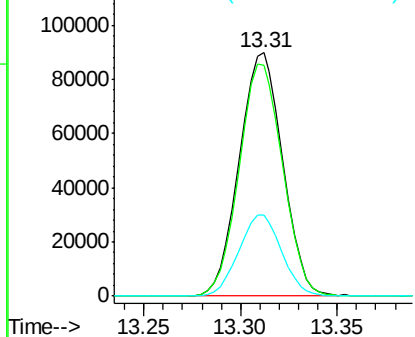


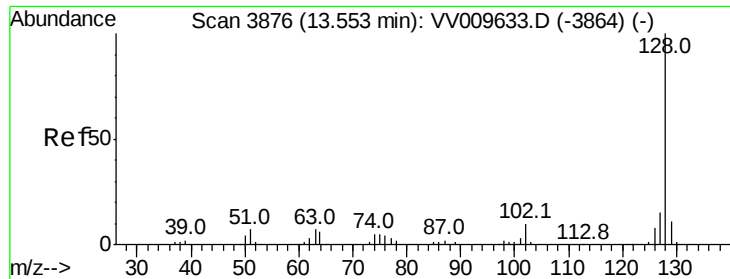
#68
 1,2,4-trichlorobenzene
 Concen: 51.021 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009634.D
 Acq: 13 Mar 2019 11:53

Tgt Ion:180 Resp: 140565
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.4 116.0
 145 32.7 26.4 39.6



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: 45.229 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05081

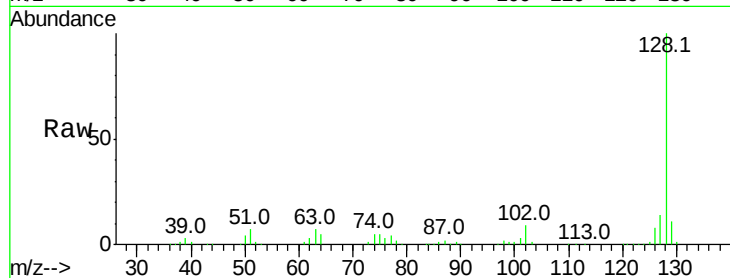
Tgt Ion:128 Resp: 262464

Ion Ratio Lower Upper

128 100

129 10.9 8.3 12.5

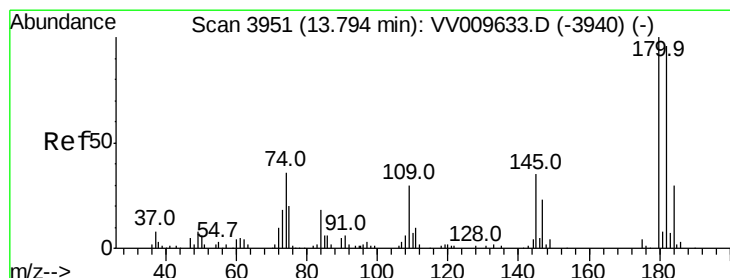
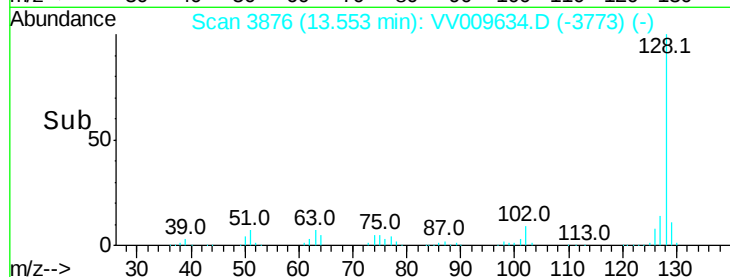
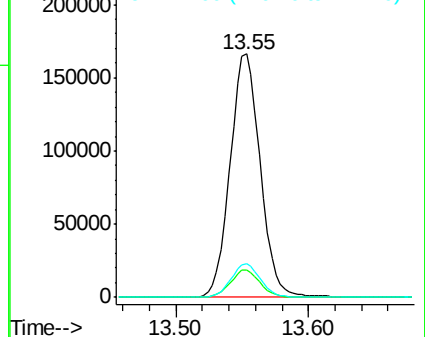
127 13.5 11.0 16.6



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: 51.610 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009634.D

Acq: 13 Mar 2019 11:53

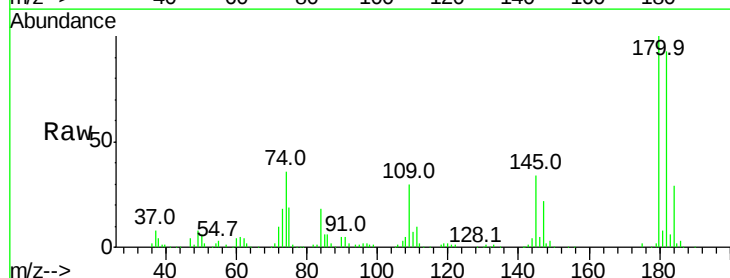
Tgt Ion:180 Resp: 130808

Ion Ratio Lower Upper

180 100

182 93.9 76.9 115.3

145 33.7 27.3 40.9



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

