

Data File : VR025541.D
Acq On : 30 Jul 2018 14:08
Operator : SY/MD
Sample : VSTD02085
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
VSTD02085

Quant Time: Jul 30 15:04:35 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR073018WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jul 30 15:00:06 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	680233	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	602361	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	265533	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	850635	45.36	ug/L	0.00
7) Chloroethane-d5	2.64	69	612146	38.30	ug/L	0.00
11) 1,1-Dichloroethene-d2	3.65	63	2000126	35.20	ug/L	0.00
20) 2-Butanone-d5	6.60	46	882477	151.50	ug/L	0.00
24) Chloroform-d	7.21	84	1495555	16.13	ug/L	0.00
26) 1,2-Dichloroethane-d4	7.90	65	548169	15.42	ug/L	0.00
32) Benzene-d6	7.86	84	3455271	17.15	ug/L	0.00
36) 1,2-Dichloropropane-d6	8.90	67	908706	15.54	ug/L	0.00
41) Toluene-d8	9.97	98	3496315	19.76	ug/L	0.00
43) trans-1,3-Dichloropropene-	10.24	79	258846	16.70	ug/L	0.00
46) 2-Hexanone-d5	10.59	63	880087	175.76	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	12.36	84	410764	15.71	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	13.51	152	857098	19.55	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	843866	21.959 ug/L	96
3) Chloromethane	2.02	50	1010797	44.368 ug/L	96
5) Vinyl chloride	2.16	62	1018532	49.760 ug/L	96
6) Bromomethane	2.53	94	465415	38.641 ug/L	93
8) Chloroethane	2.67	64	523060	41.044 ug/L	92
9) Trichlorofluoromethane	2.98	101	1567986	46.883 ug/L	# 24
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	947823	46.555 ug/L	99
12) 1,1-Dichloroethene	3.66	96	969190	47.661 ug/L	95
13) Acetone	3.71	43	623851	237.725 ug/L	98
14) Carbon disulfide	3.97	76	2455760	53.066 ug/L	99
15) Methyl Acetate	4.21	43	181898	30.980 ug/L	98
16) Methylene chloride	4.41	84	486730	24.432 ug/L	91
17) Methyl tert-butyl Ether	4.90	73	1100260	16.600 ug/L	99
18) trans-1,2-Dichloroethene	4.88	96	989403	19.558 ug/L	97
19) 1,1-Dichloroethane	5.70	63	1425695	16.429 ug/L	98
21) 2-Butanone	6.69	43	965417	157.931 ug/L	98
22) cis-1,2-Dichloroethene	6.68	96	955252	20.576 ug/L	# 93
23) Bromochloromethane	7.05	128	294342	19.691 ug/L	98
25) Chloroform	7.24	83	1428144	17.131 ug/L	97
27) 1,2-Dichloroethane	8.00	62	562187	15.043 ug/L	# 94
29) 1,1,1-Trichloroethane	7.43	97	1067992	17.432 ug/L	99
30) Cyclohexane	7.52	56	1515804	23.061 ug/L	96
31) Carbon tetrachloride	7.64	117	1131184	20.870 ug/L	100
33) Benzene	7.91	78	3908268	18.823 ug/L	100
34) Trichloroethene	8.71	95	953391	18.037 ug/L	97
35) Methylcyclohexane	8.96	83	1679077	23.760 ug/L	98
37) 1,2-Dichloropropane	9.00	63	805823	16.697 ug/L	99
38) Bromodichloromethane	9.29	83	853788	17.357 ug/L	98
39) cis-1,3-Dichloropropene	9.72	75	1036573	19.101 ug/L	98
40) 4-Methyl-2-pentanone	9.87	43	2662161	190.341 ug/L	99

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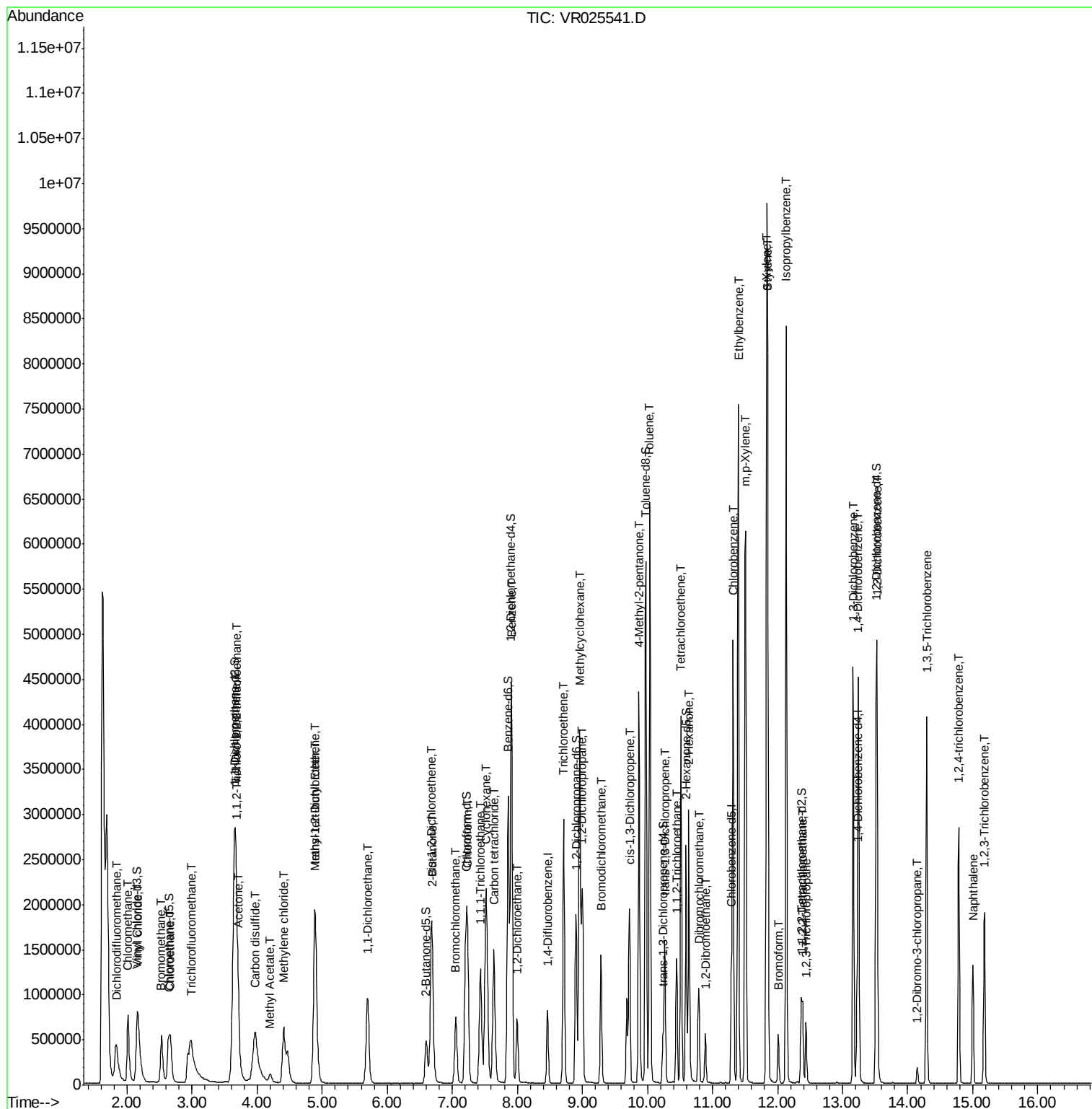
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	10.03	91	4328965	21.440	ug/L	96
44) trans-1,3-Dichloropropene	10.27	75	739490	18.556	ug/L	97
45) 1,1,2-Trichloroethane	10.45	97	399676	16.902	ug/L	92
47) Tetrachloroethene	10.52	164	822375	23.827	ug/L	96
48) 2-Hexanone	10.64	43	1766710	183.630	ug/L	99
49) Dibromochloromethane	10.79	129	511177	20.733	ug/L	99
50) 1,2-Dibromoethane	10.89	107	346682	18.098	ug/L #	93
51) Chlorobenzene	11.32	112	2464658	20.048	ug/L	95
52) Ethylbenzene	11.40	91	4756541	21.970	ug/L	98
53) m,p-Xylene	11.51	106	1958040	24.101	ug/L	97
54) o-Xylene	11.83	106	1849850	26.433	ug/L	96
55) Styrene	11.85	104	2911022	25.282	ug/L	92
56) Isopropylbenzene	12.13	105	4717643	25.458	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.39	83	379034	16.274	ug/L	95
59) 1,2,3-Trichloropropane	12.44	75	247062	14.735	ug/L	94
61) Bromoform	12.01	173	226564	20.950	ug/L	99
62) 1,3-Dichlorobenzene	13.16	146	1691827	21.745	ug/L	98
63) 1,4-Dichlorobenzene	13.24	146	1652309	19.130	ug/L	99
65) 1,2-Dichlorobenzene	13.53	146	1347940	19.937	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.15	75	36342	12.152	ug/L #	65
67) 1,3,5-Trichlorobenzene	14.29	180	1124168	22.124	ug/L	98
68) 1,2,4-trichlorobenzene	14.79	180	768510	22.002	ug/L	100
69) Naphthalene	15.00	128	992354	22.185	ug/L	99
70) 1,2,3-Trichlorobenzene	15.18	180	573295	21.281	ug/L	100

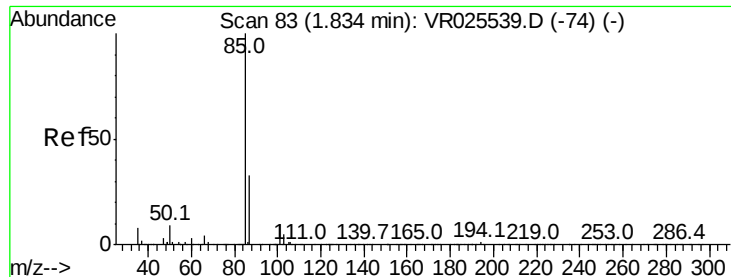
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.959 ug/L

RT: 1.83 min Scan# 83

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

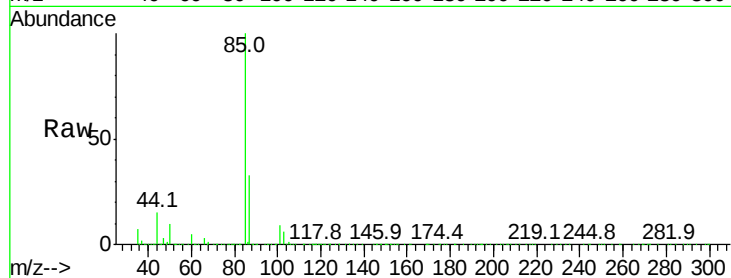
VSTD02085

Tgt Ion: 85 Resp: 843866

Ion Ratio Lower Upper

85 100

87 33.5 25.0 37.6



Abundance Ion 85.00 (84.70 to 85.70): VR0

Ion 87.00 (86.70 to 87.70): VR0

250000

200000

150000

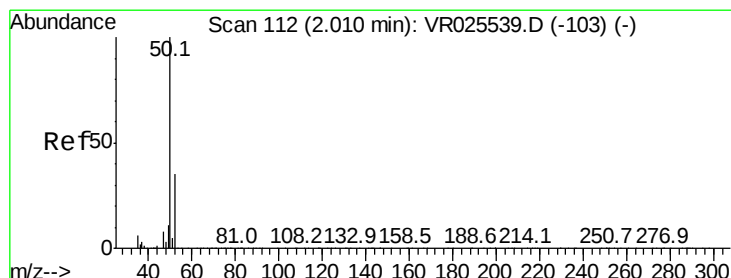
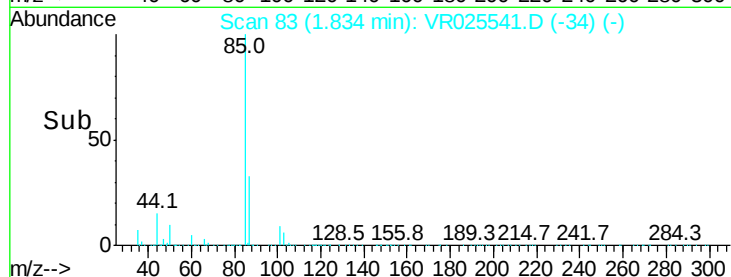
100000

50000

0

1.70 1.80 1.90 2.00

Time-->



#3

Chloromethane

Concen: 44.368 ug/L

RT: 2.02 min Scan# 113

Delta R.T. 0.01 min

Lab File: VR025541.D

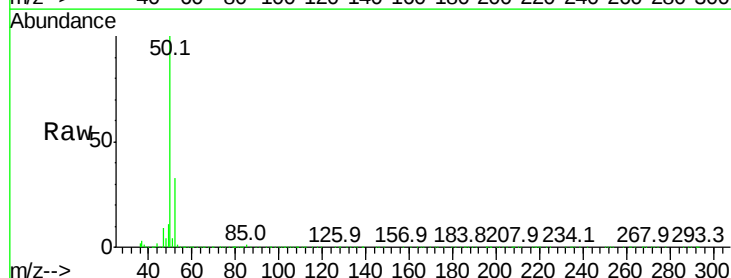
Acq: 30 Jul 2018 14:08

Tgt Ion: 50 Resp: 1010797

Ion Ratio Lower Upper

50 100

52 32.7 24.4 45.4



Abundance Ion 50.05 (49.75 to 50.75): VR0

Ion 52.05 (51.75 to 52.75): VR0

500000

400000

300000

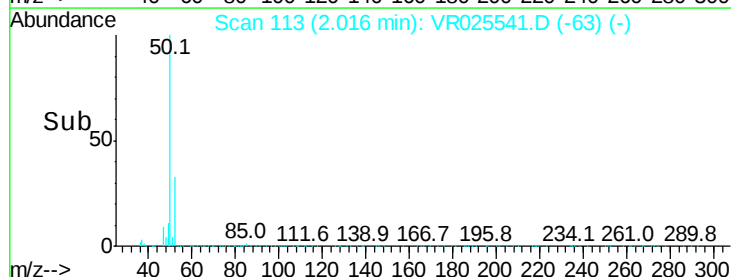
200000

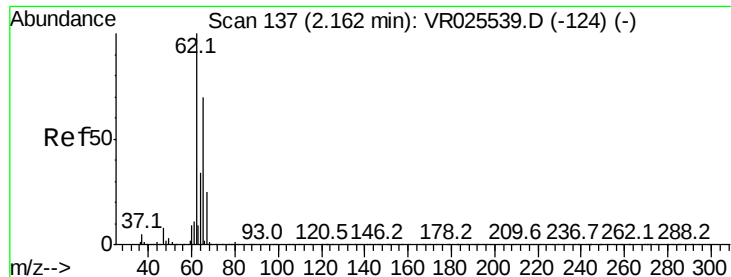
100000

0

1.90 2.00 2.10 2.20

Time-->





#5

Vinyl chloride

Concen: 49.760 ug/L

RT: 2.16 min Scan# 137

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

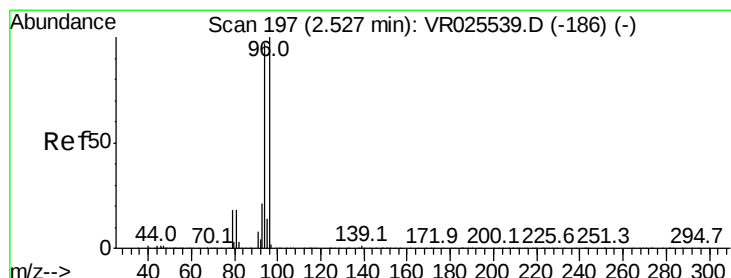
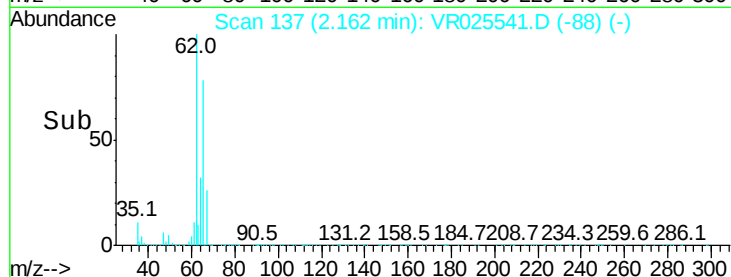
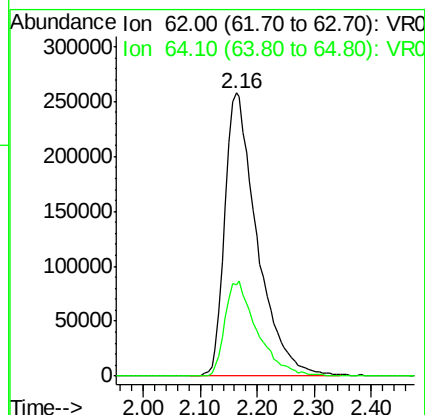
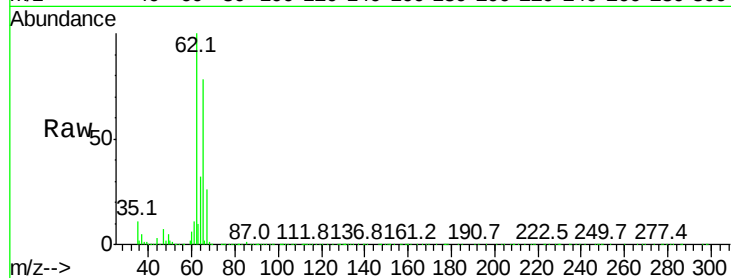
VSTD02085

Tgt Ion: 62 Resp: 1018532

Ion Ratio Lower Upper

62 100

64 32.3 24.1 44.8



#6

Bromomethane

Concen: 38.641 ug/L

RT: 2.53 min Scan# 197

Delta R.T. -0.00 min

Lab File: VR025541.D

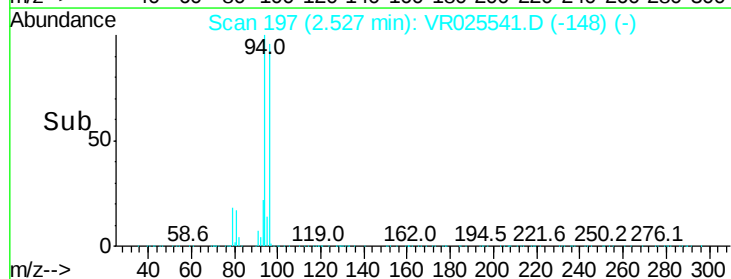
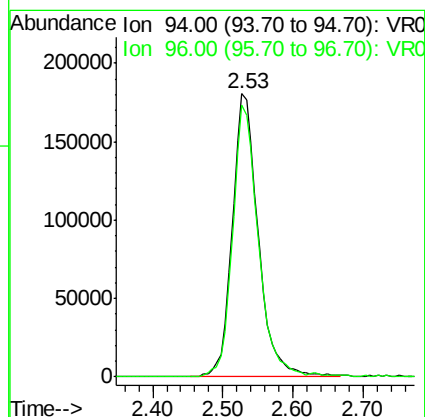
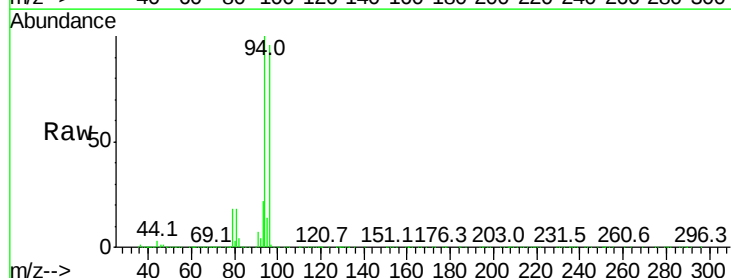
Acq: 30 Jul 2018 14:08

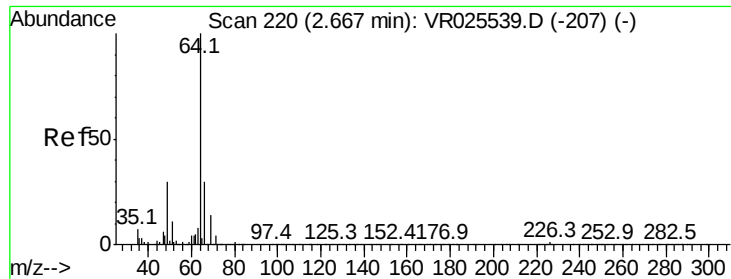
Tgt Ion: 94 Resp: 465415

Ion Ratio Lower Upper

94 100

96 95.9 72.0 133.6

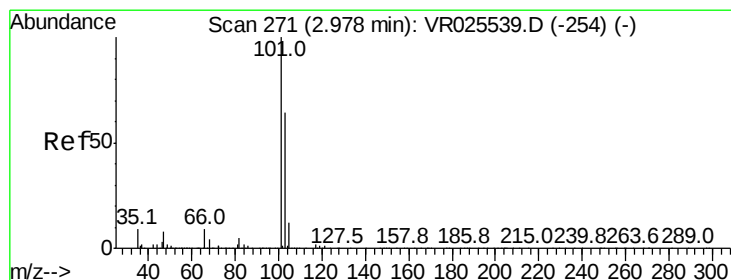
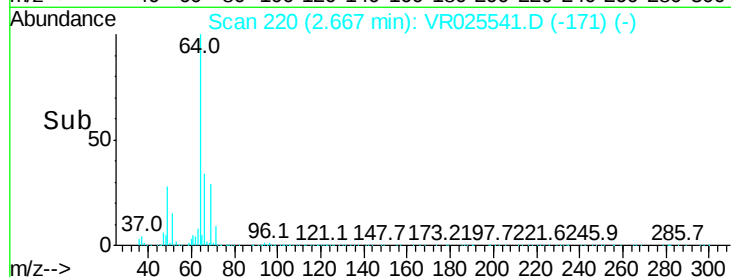
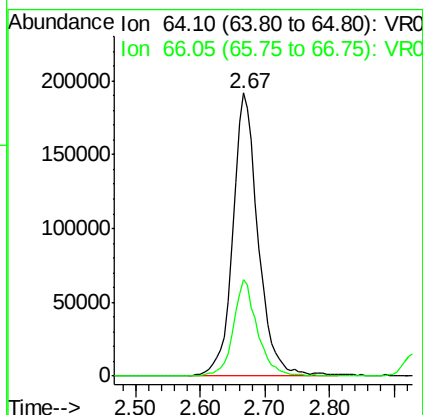
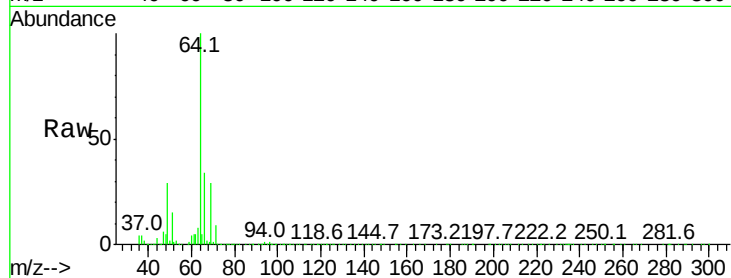




#8
Chloroethane
Concen: 41.044 ug/L
RT: 2.67 min Scan# 220
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

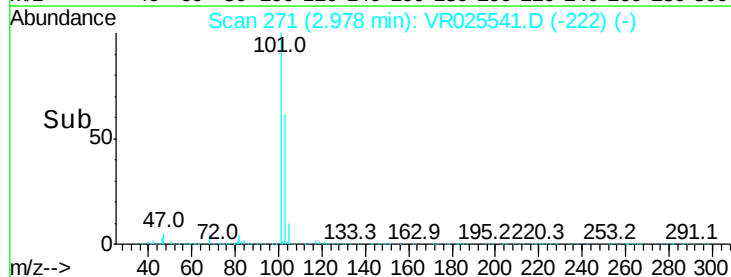
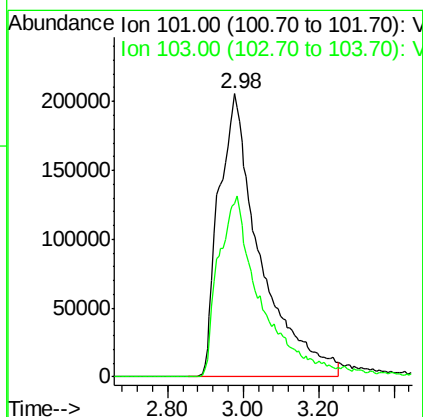
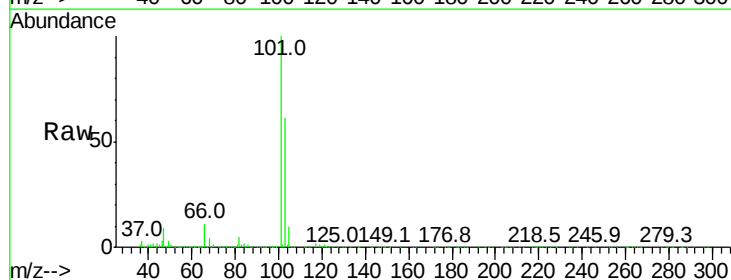
Instrument :
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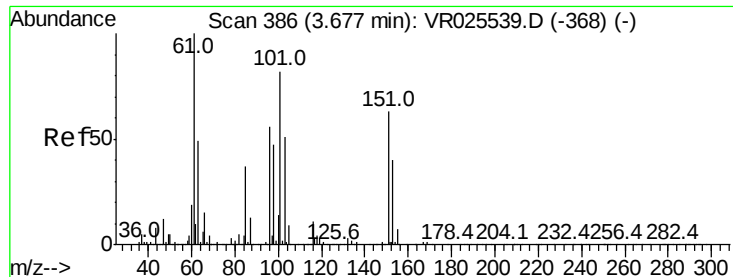
Tgt Ion: 64 Resp: 523060
Ion Ratio Lower Upper
64 100
66 34.1 20.9 38.9



#9
Trichlorofluoromethane
Concen: 46.883 ug/L
RT: 2.98 min Scan# 271
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Tgt Ion: 101 Resp: 1567986
Ion Ratio Lower Upper
101 100
103 62.6 19.8 29.6#





#10

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

Concen: 46.555 ug/L

RT: 3.68 min Scan# 387

Delta R.T. 0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

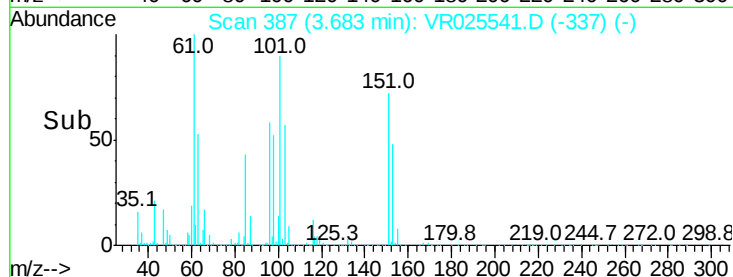
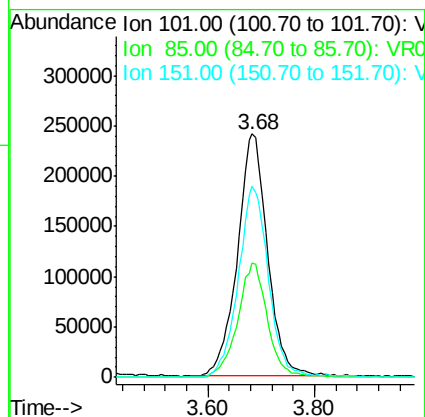
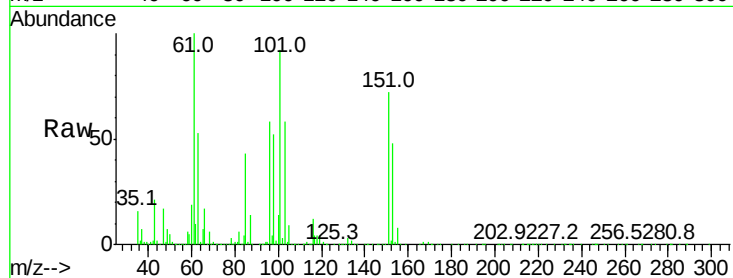
Tgt Ion: 101 Resp: 947823

Ion Ratio Lower Upper

101 100

85 46.3 37.4 56.0

151 78.9 61.9 92.9



#12

1,1-Dichloroethene

Concen: 47.661 ug/L

RT: 3.66 min Scan# 383

Delta R.T. 0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

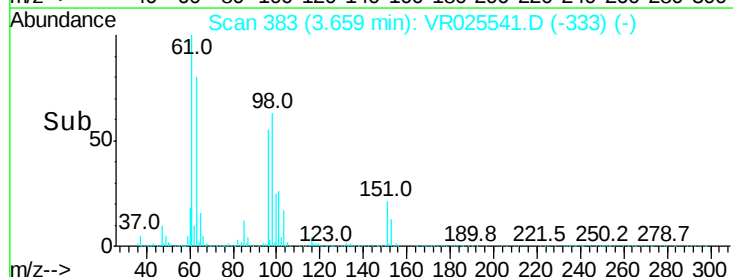
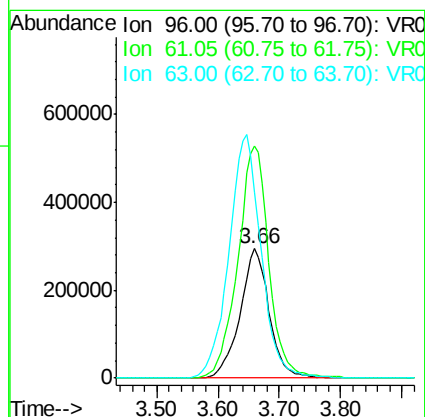
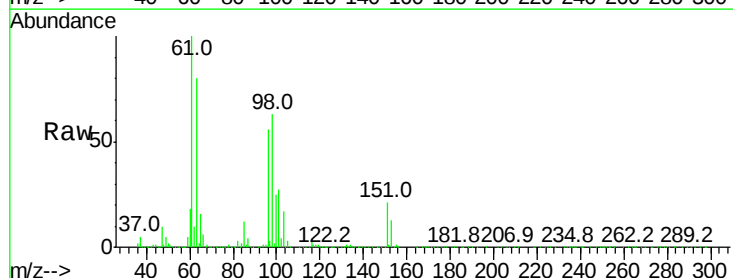
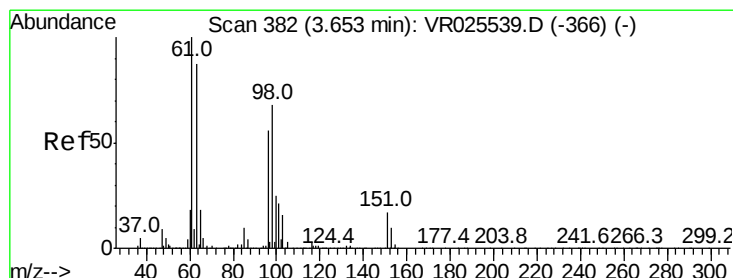
Tgt Ion: 96 Resp: 969190

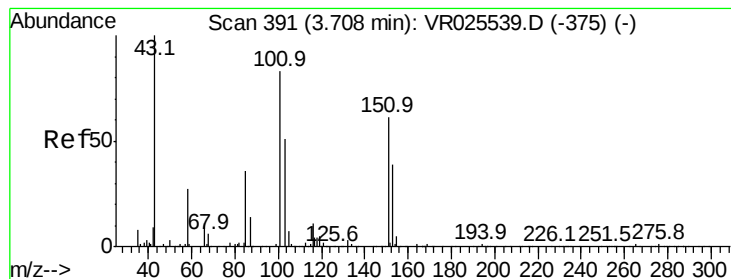
Ion Ratio Lower Upper

96 100

61 180.1 124.3 230.8

63 144.4 108.1 200.7





#13

Acetone

Concen: 237.725 ug/L

RT: 3.71 min Scan# 392

Delta R.T. 0.01 min

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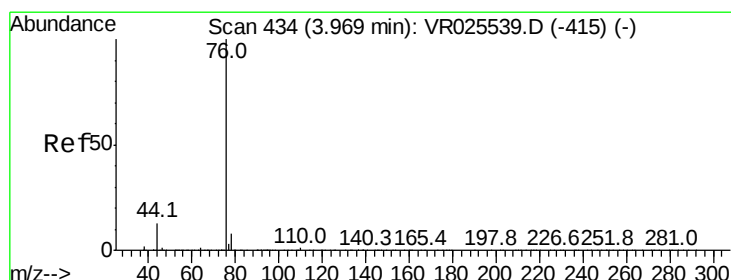
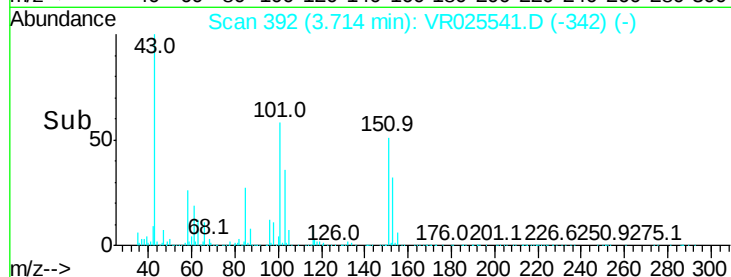
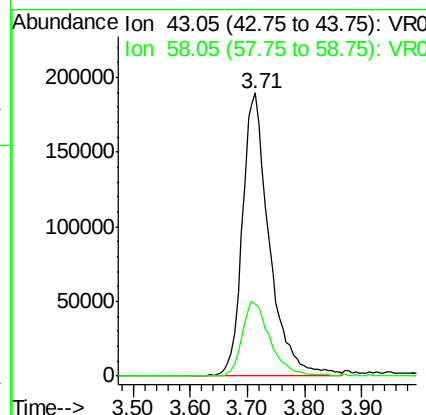
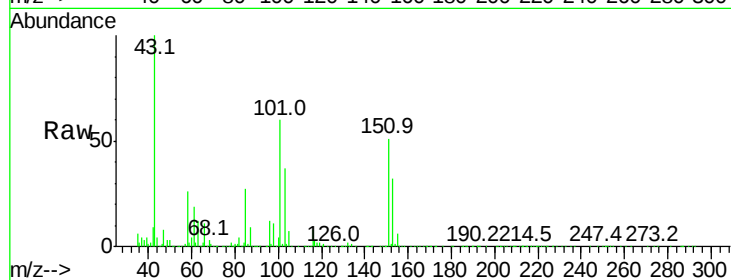
VSTD02085

Tgt Ion: 43 Resp: 623851

Ion Ratio Lower Upper

43 100

58 27.6 0.0 53.4



#14

Carbon disulfide

Concen: 53.066 ug/L

RT: 3.97 min Scan# 434

Delta R.T. -0.00 min

Lab File: VR025541.D

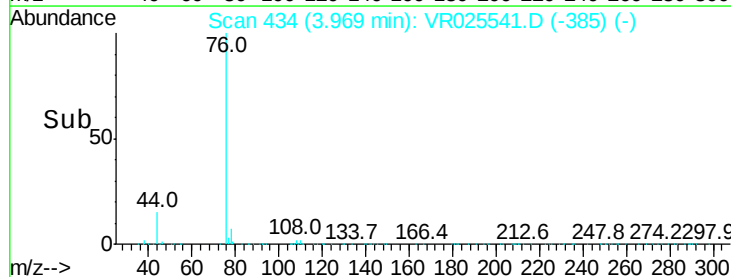
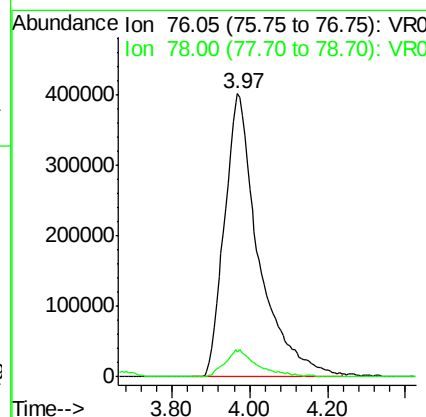
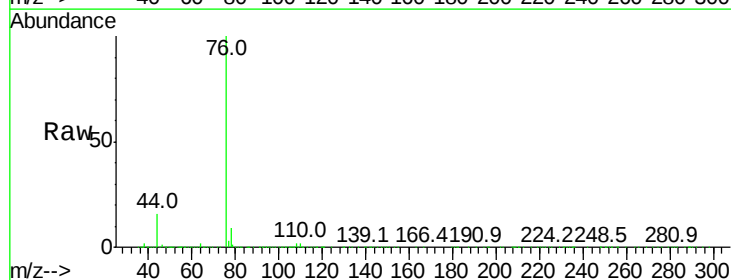
Acq: 30 Jul 2018 14:08

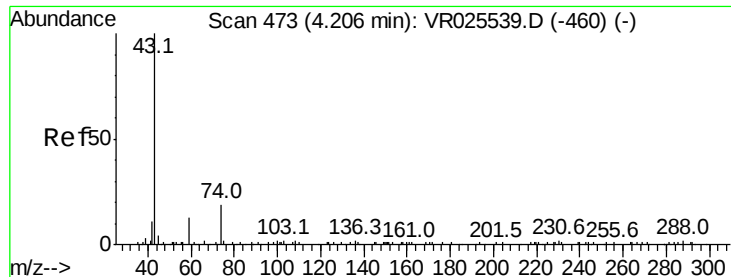
Tgt Ion: 76 Resp: 2455760

Ion Ratio Lower Upper

76 100

78 8.8 6.8 10.2





#15

Methyl Acetate

Concen: 30.980 ug/L

RT: 4.21 min Scan# 473

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

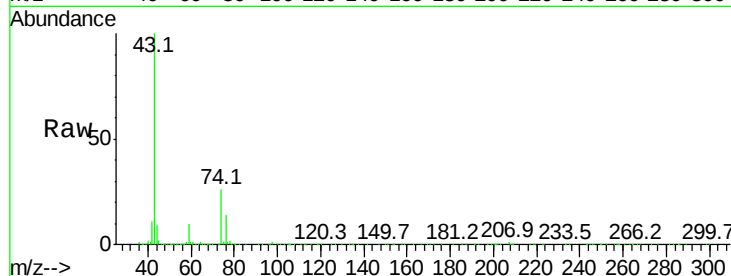
VSTD02085

Tgt Ion: 43 Resp: 181898

Ion Ratio Lower Upper

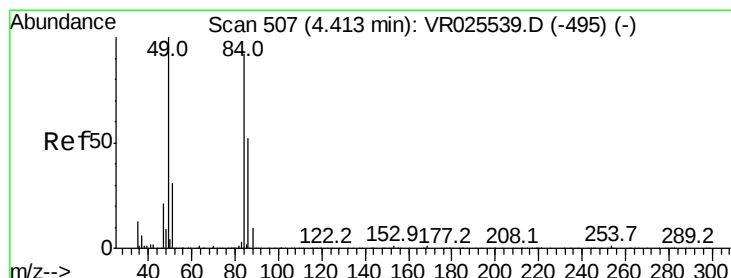
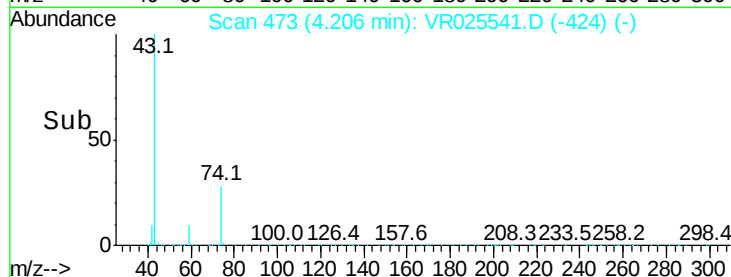
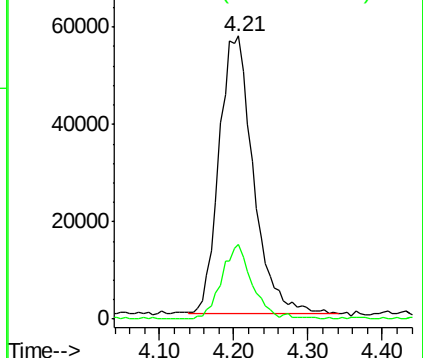
43 100

74 23.6 19.8 29.6



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 74.05 (73.75 to 74.75): VR0



#16

Methylene chloride

Concen: 24.432 ug/L

RT: 4.41 min Scan# 506

Delta R.T. -0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

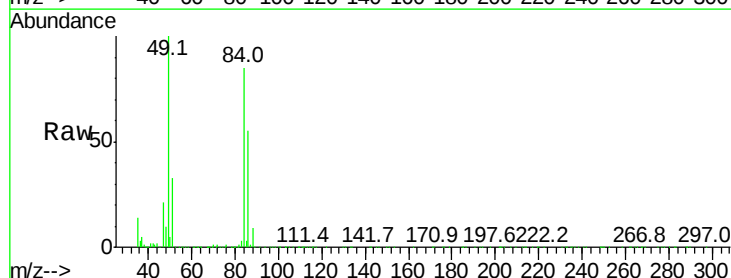
Tgt Ion: 84 Resp: 486730

Ion Ratio Lower Upper

84 100

86 64.7 40.4 75.0

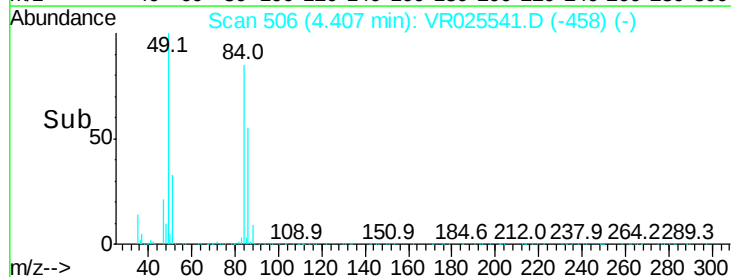
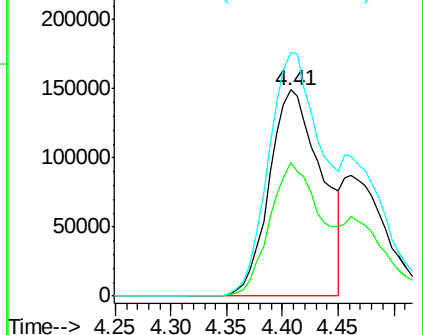
49 118.1 76.2 141.4

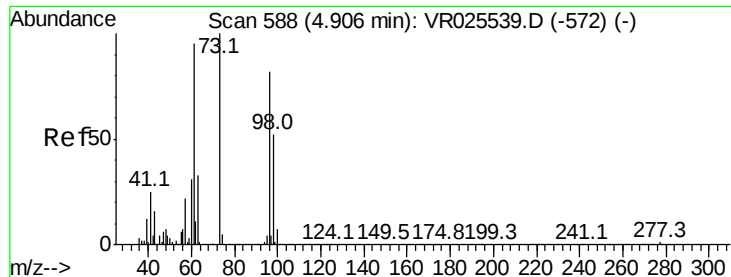


Abundance Ion 84.05 (83.75 to 84.75): VR0

Ion 86.00 (85.70 to 86.70): VR0

Ion 49.10 (48.80 to 49.80): VR0

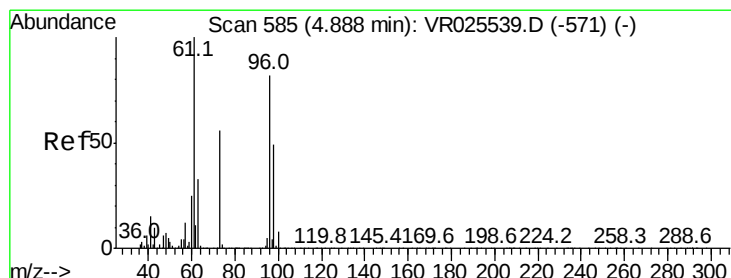
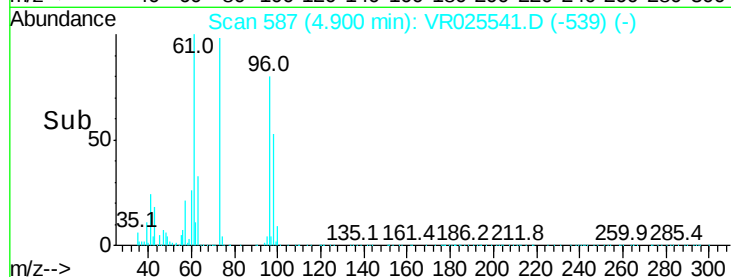
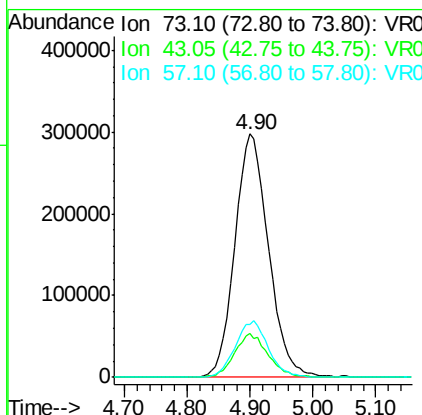
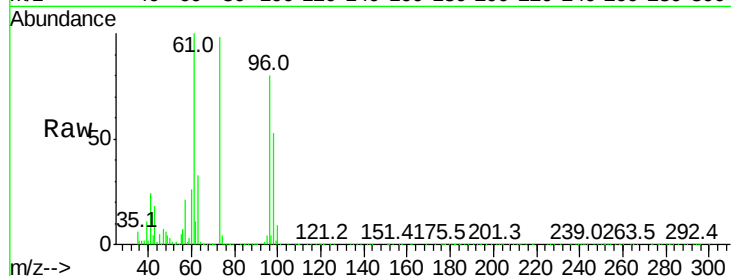




#17
Methyl tert-butyl Ether
Concen: 16.600 ug/L
RT: 4.90 min Scan# 587
Delta R.T. -0.01 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

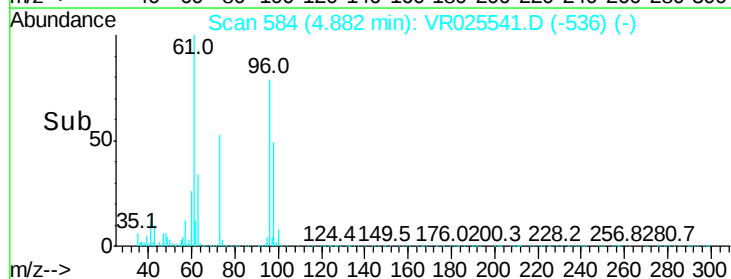
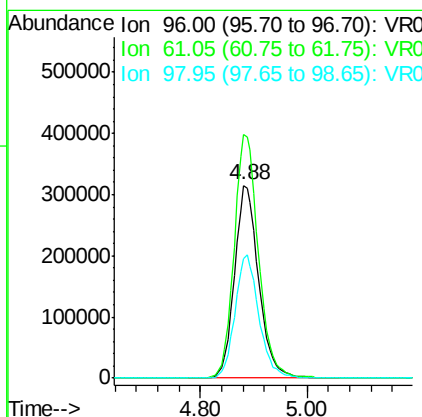
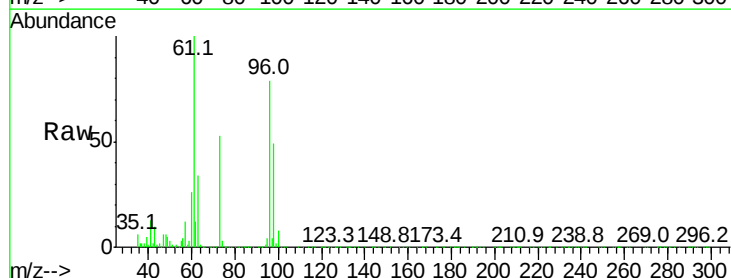
Instrument :
MSVOA_R
ClientSampleId :
VSTD02085

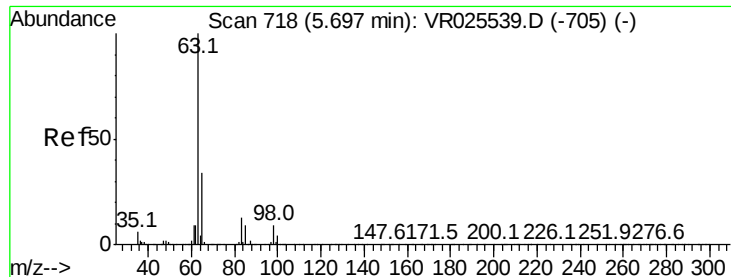
Tgt Ion: 73 Resp: 1100260
Ion Ratio Lower Upper
73 100
43 17.6 14.2 21.4
57 22.8 17.6 26.4



#18
trans-1,2-Dichloroethene
Concen: 19.558 ug/L
RT: 4.88 min Scan# 584
Delta R.T. -0.01 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Tgt Ion: 96 Resp: 989403
Ion Ratio Lower Upper
96 100
61 126.4 85.5 158.9
98 62.1 42.1 78.1





#19

1,1-Dichloroethane

Concen: 16.429 ug/L

RT: 5.70 min Scan# 718

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

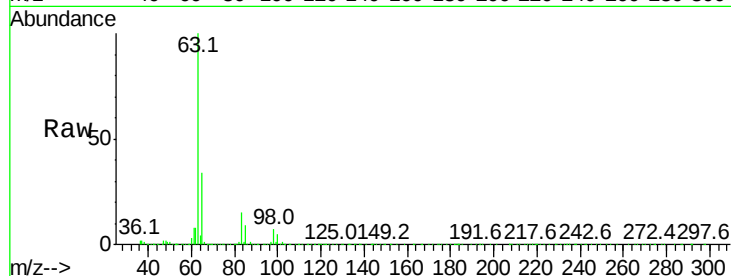
Tgt Ion: 63 Resp: 1425695

Ion Ratio Lower Upper

63 100

65 34.0 23.5 43.7

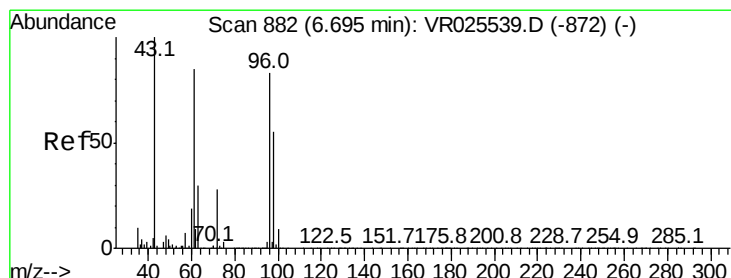
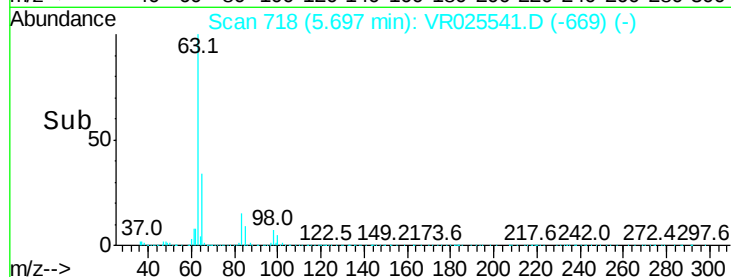
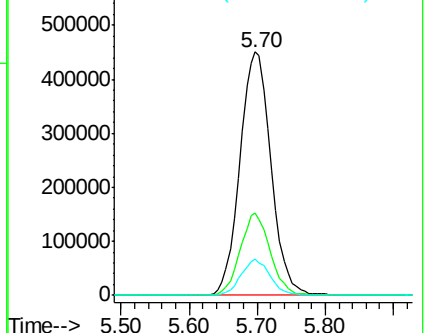
83 14.8 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 65.10 (64.80 to 65.80): VR0

Ion 83.05 (82.75 to 83.75): VR0



#21

2-Butanone

Concen: 157.931 ug/L

RT: 6.69 min Scan# 882

Delta R.T. -0.00 min

Lab File: VR025541.D

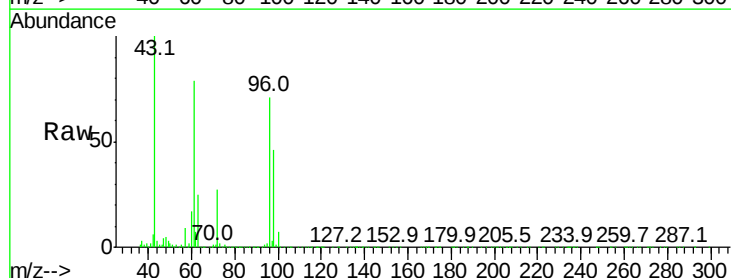
Acq: 30 Jul 2018 14:08

Tgt Ion: 43 Resp: 965417

Ion Ratio Lower Upper

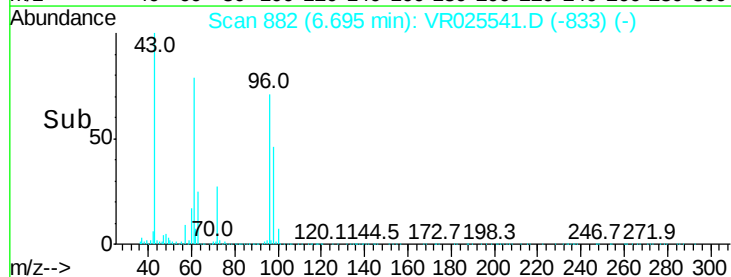
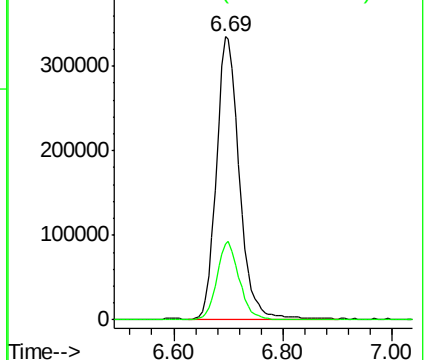
43 100

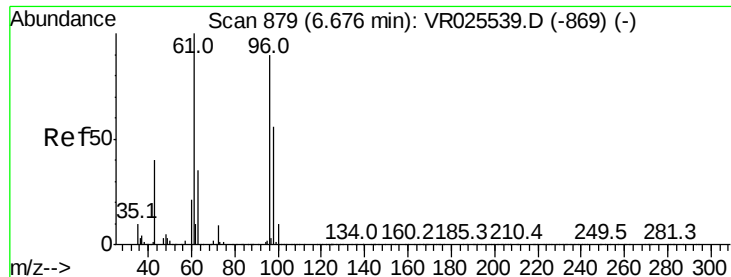
72 27.2 13.2 39.6



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 72.10 (71.80 to 72.80): VR0



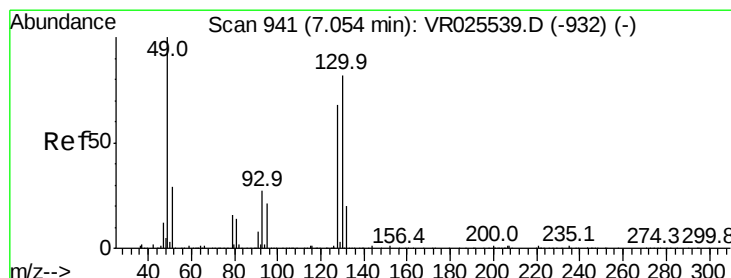
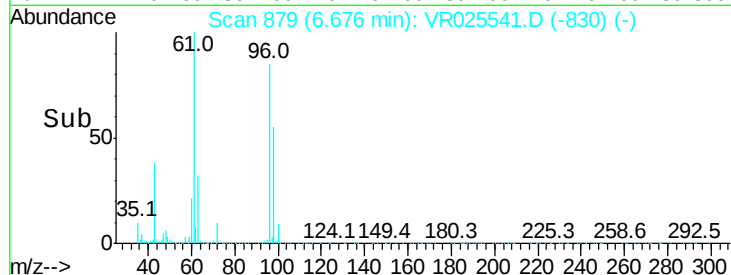
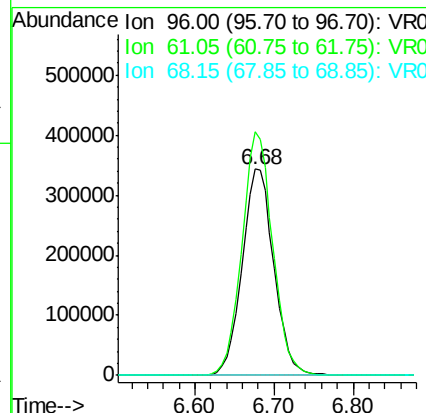
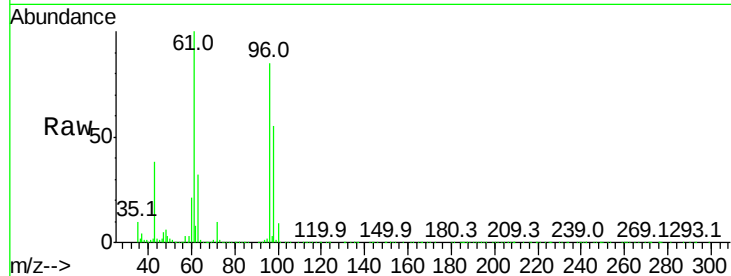


#22

cis-1,2-Dichloroethene
 Concen: 20.576 ug/L
 RT: 6.68 min Scan# 879
 Delta R.T. -0.00 min
 Lab File: VR025541.D
 Acq: 30 Jul 2018 14:08

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD02085

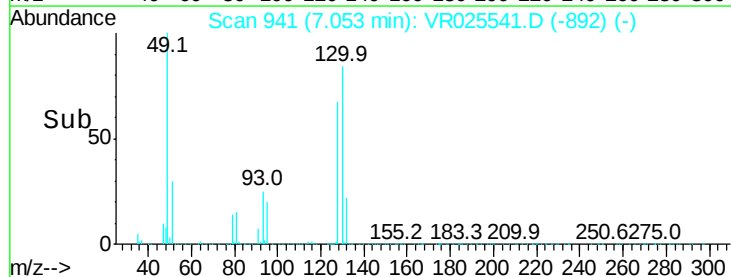
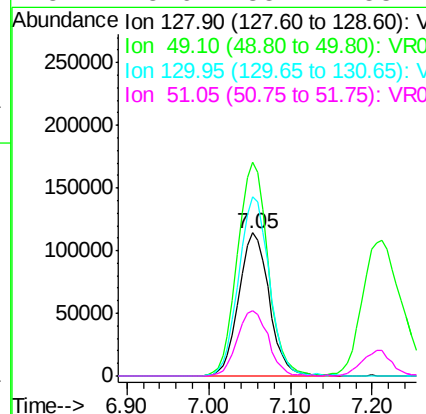
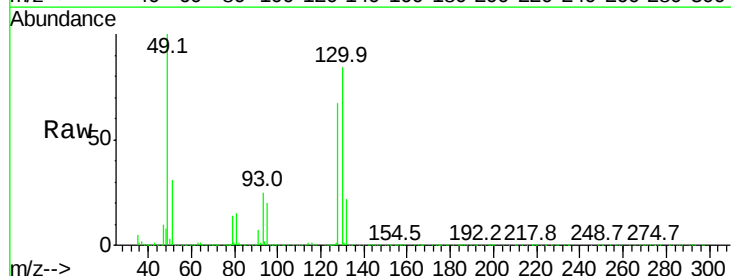
Tgt Ion: 96 Resp: 955252
 Ion Ratio Lower Upper
 96 100
 61 118.0 77.7 144.3
 68 0.0 0.0 0.0#

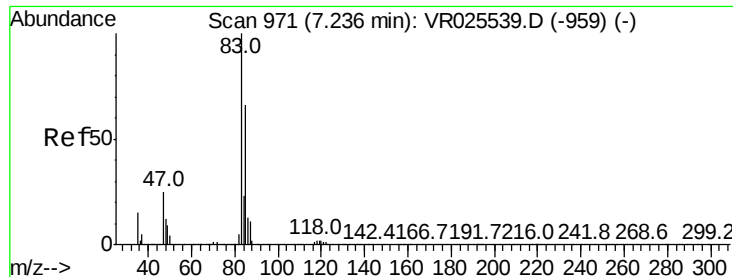


#23

Bromochloromethane
 Concen: 19.691 ug/L
 RT: 7.05 min Scan# 941
 Delta R.T. -0.00 min
 Lab File: VR025541.D
 Acq: 30 Jul 2018 14:08

Tgt Ion: 128 Resp: 294342
 Ion Ratio Lower Upper
 128 100
 49 149.4 103.3 191.9
 130 125.2 84.9 157.7
 51 45.6 35.4 53.2





#25

Chloroform

Concen: 17.131 ug/L

RT: 7.24 min Scan# 971

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

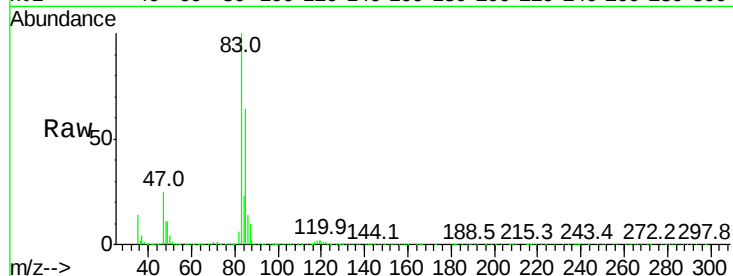
VSTD02085

Tgt Ion: 83 Resp: 1428144

Ion Ratio Lower Upper

83 100

85 64.4 46.5 86.3



Abundance Ion 83.05 (82.75 to 83.75): VR0

Ion 85.00 (84.70 to 85.70): VR0

600000

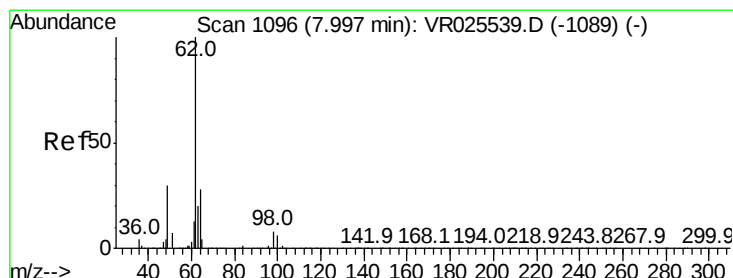
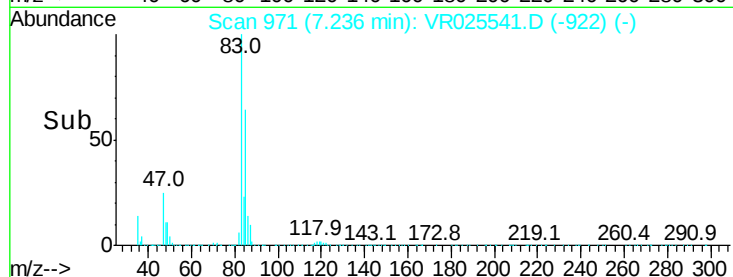
400000

200000

0

7.10 7.20 7.30 7.40

Time-->



#27

1,2-Dichloroethane

Concen: 15.043 ug/L

RT: 8.00 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VR025541.D

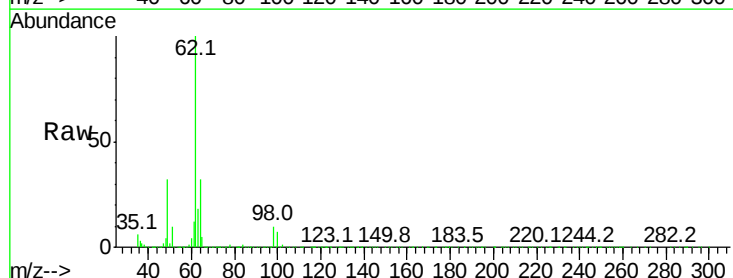
Acq: 30 Jul 2018 14:08

Tgt Ion: 62 Resp: 562187

Ion Ratio Lower Upper

62 100

98 10.5 6.6 9.8#



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 98.05 (97.75 to 98.75): VR0

300000

250000

200000

150000

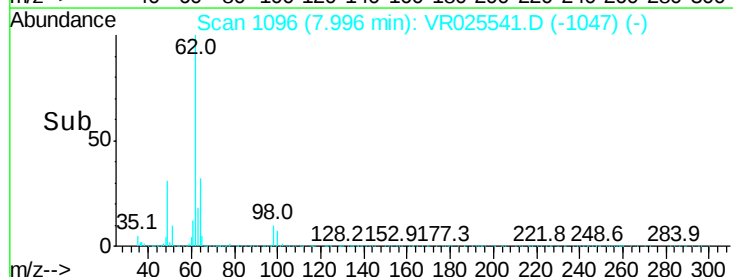
100000

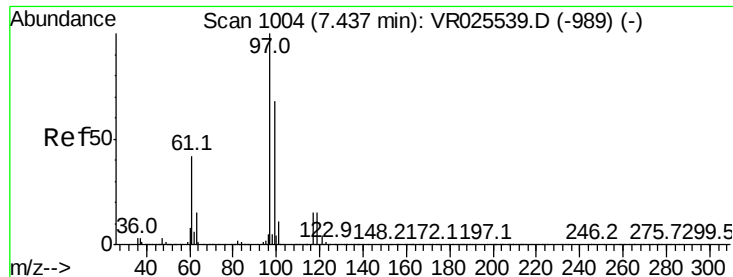
50000

0

7.90 7.95 8.00 8.05 8.10

Time-->

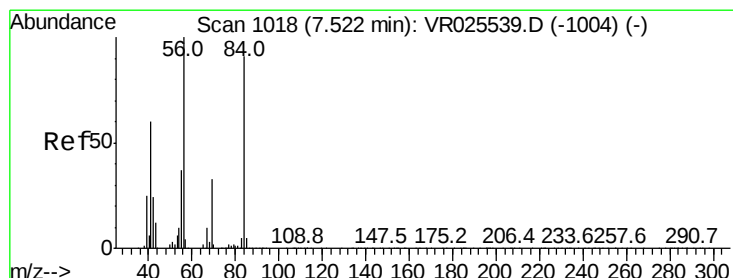
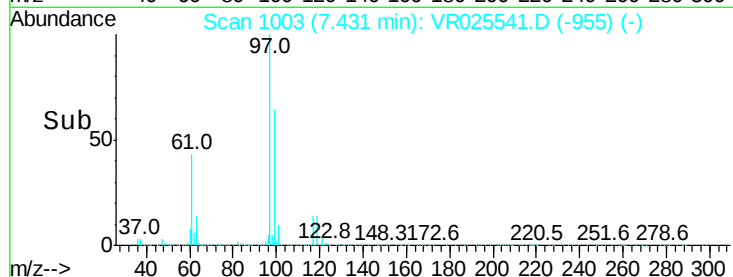
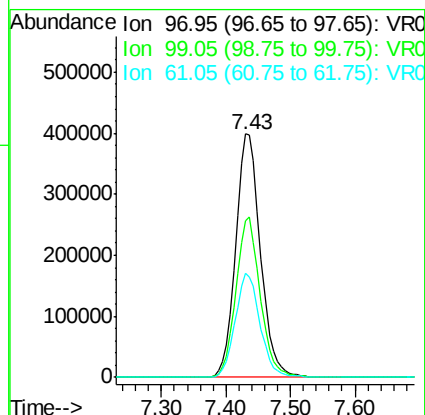
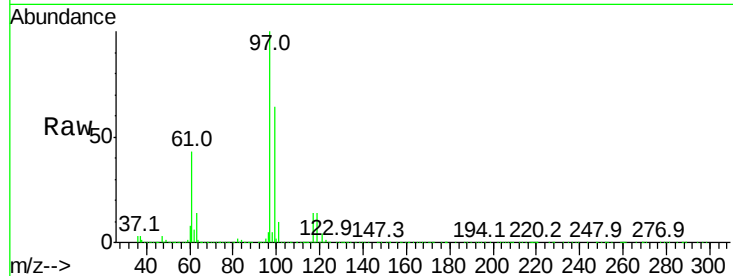




#29
1,1,1-Trichloroethane
Concen: 17.432 ug/L
RT: 7.43 min Scan# 1003
Delta R.T. -0.01 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

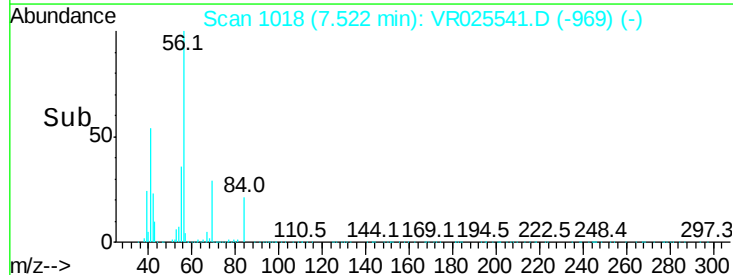
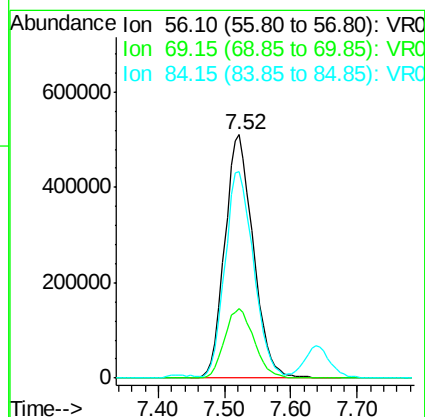
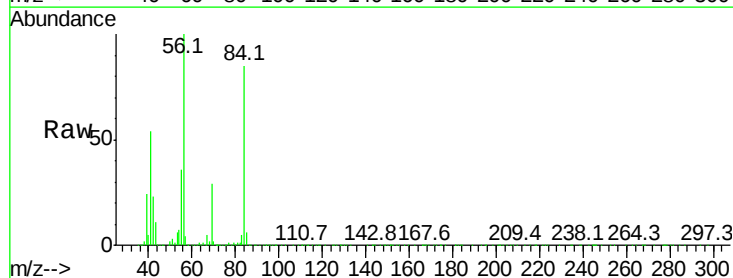
Instrument :
MSVOA_R
ClientSampleId :
VSTD02085

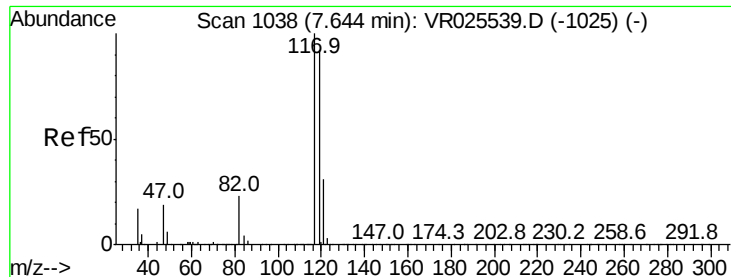
Tgt Ion: 97 Resp: 1067992
Ion Ratio Lower Upper
97 100
99 64.4 52.1 78.1
61 42.6 35.3 52.9



#30
Cyclohexane
Concen: 23.061 ug/L
RT: 7.52 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Tgt Ion: 56 Resp: 1515804
Ion Ratio Lower Upper
56 100
69 29.6 24.6 36.8
84 84.3 71.3 106.9



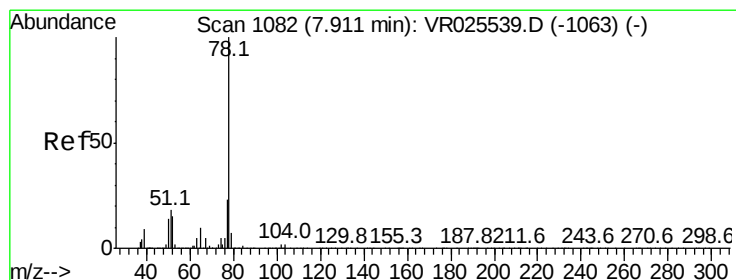
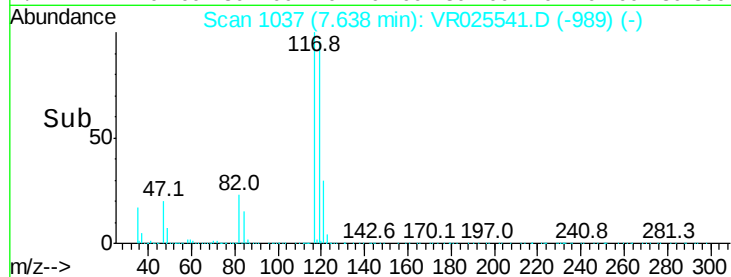
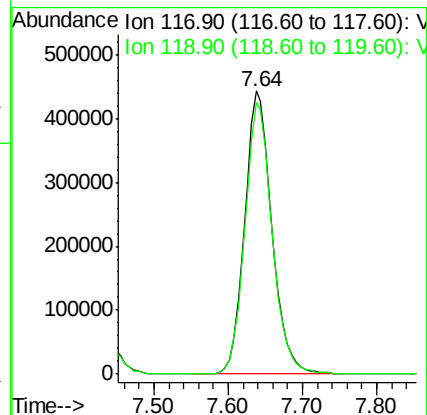
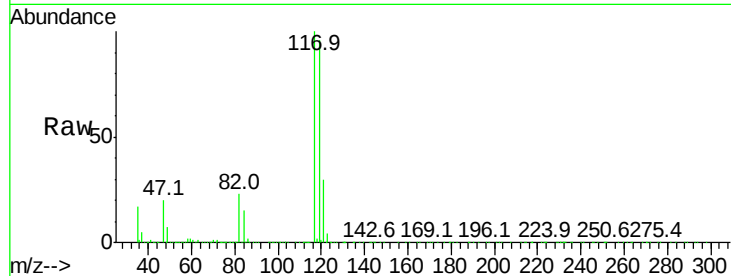


#31

Carbon tetrachloride
Concen: 20.870 ug/L
RT: 7.64 min Scan# 1037
Delta R.T. -0.01 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Instrument :
MSVOA_R
ClientSampleId :
VSTD02085

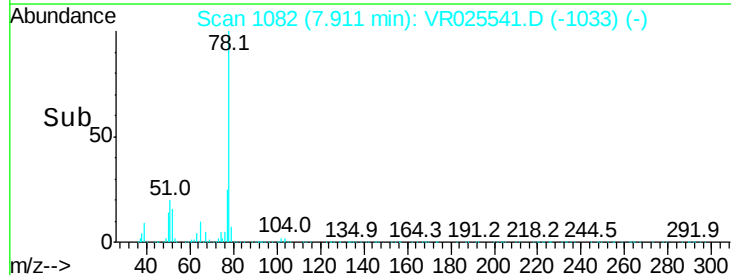
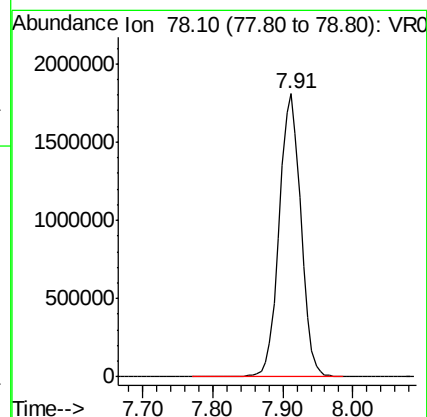
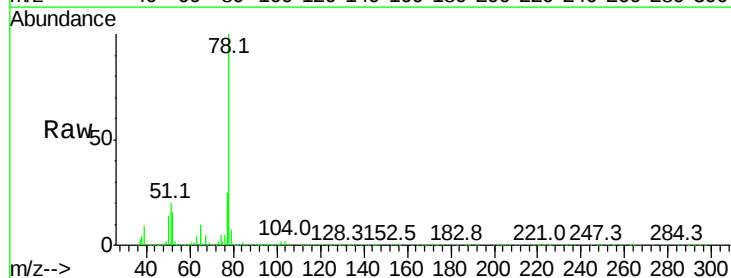
Tgt Ion:117 Resp: 1131184
Ion Ratio Lower Upper
117 100
119 96.4 77.4 116.2

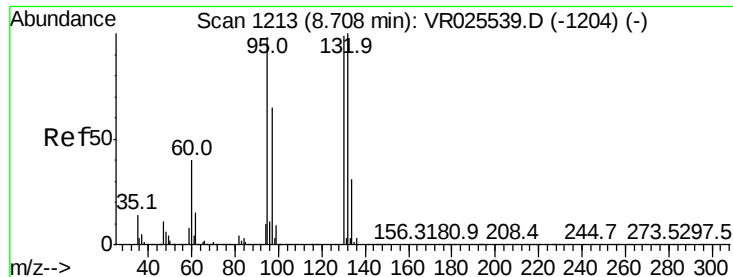


#33

Benzene
Concen: 18.823 ug/L
RT: 7.91 min Scan# 1082
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Tgt Ion: 78 Resp: 3908268





#34

Trichloroethene

Concen: 18.037 ug/L

RT: 8.71 min Scan# 1214

Delta R.T. 0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

Tgt Ion: 95 Resp: 953391

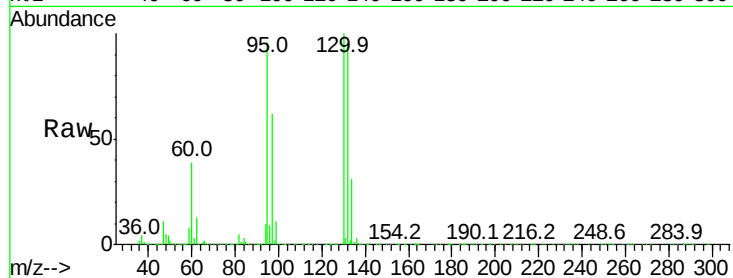
Ion Ratio Lower Upper

95 100

97 64.4 46.7 86.7

132 99.9 71.7 133.1

130 104.7 71.3 132.3

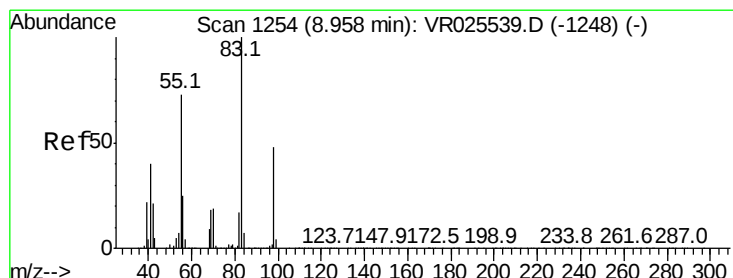
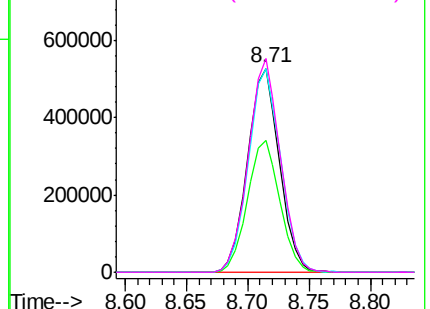
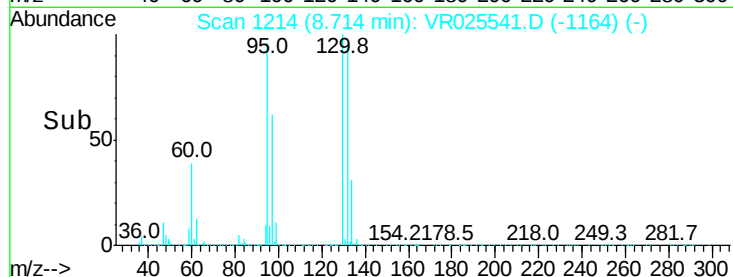


Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 23.760 ug/L

RT: 8.96 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

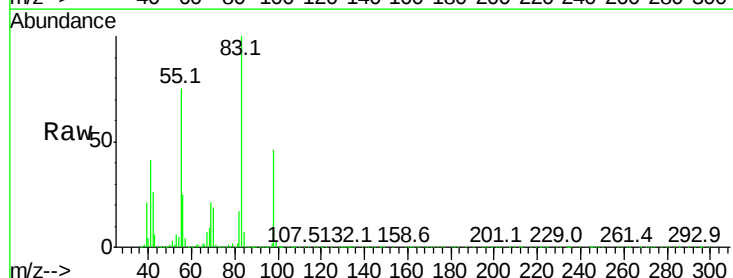
Tgt Ion: 83 Resp: 1679077

Ion Ratio Lower Upper

83 100

55 74.1 58.3 87.5

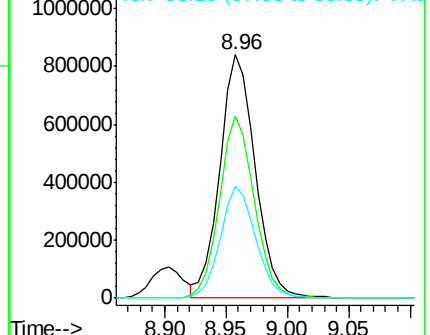
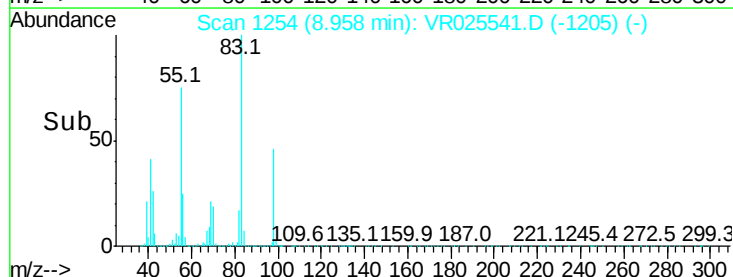
98 46.2 37.8 56.6

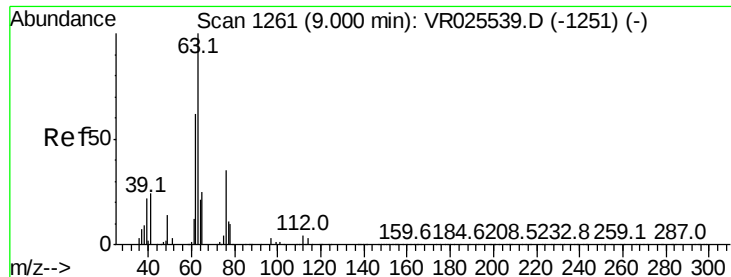


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0

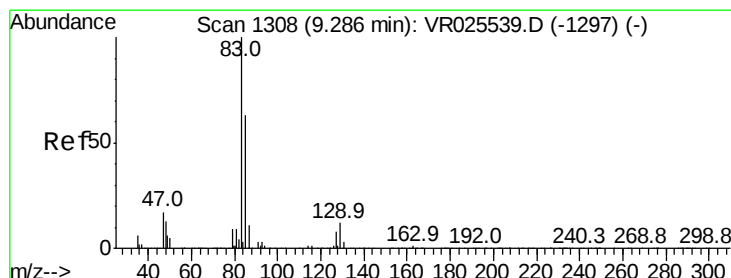
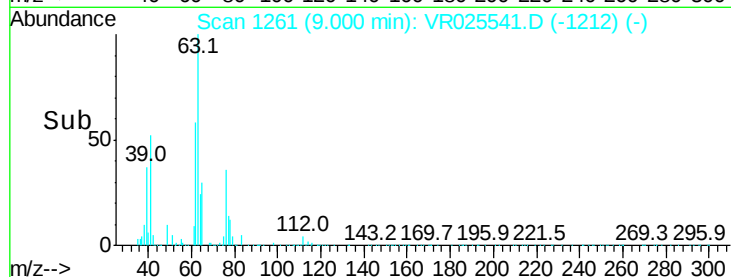
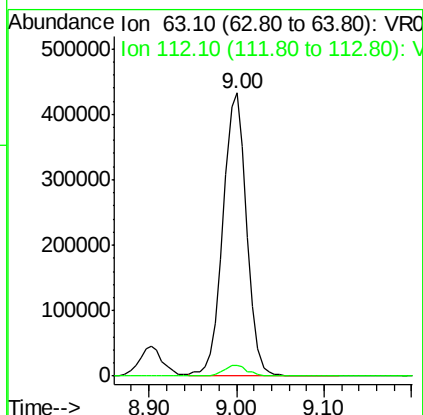
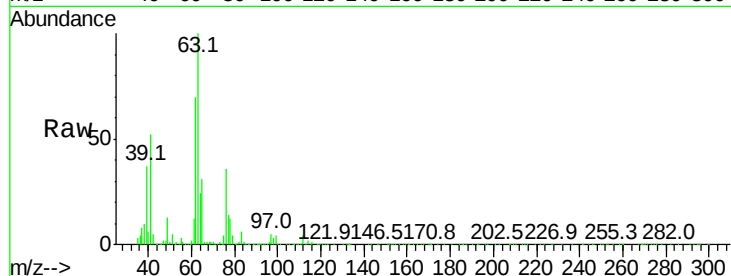




#37
1,2-Dichloropropane
Concen: 16.697 ug/L
RT: 9.00 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

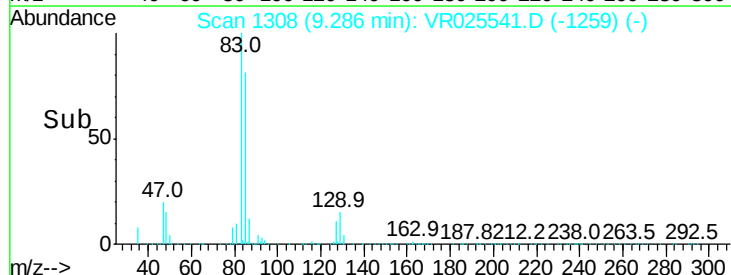
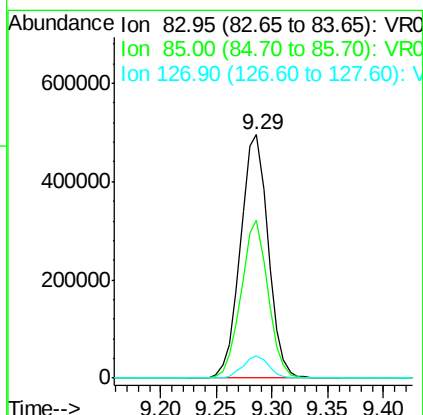
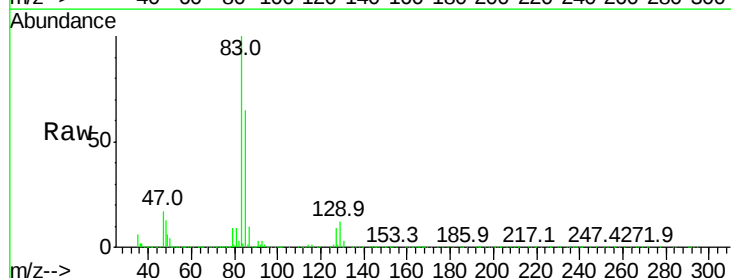
Instrument :
MSVOA_R
ClientSampleId :
VSTD02085

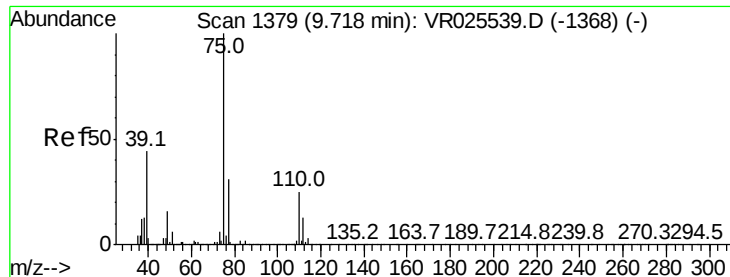
Tgt Ion: 63 Resp: 805823
Ion Ratio Lower Upper
63 100
112 3.9 3.3 4.9



#38
Bromodichloromethane
Concen: 17.357 ug/L
RT: 9.29 min Scan# 1308
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Tgt Ion: 83 Resp: 853788
Ion Ratio Lower Upper
83 100
85 64.7 44.0 81.6
127 9.1 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 19.101 ug/L

RT: 9.72 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

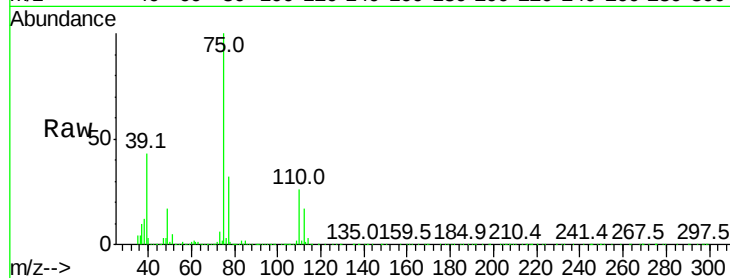
VSTD02085

Tgt Ion: 75 Resp: 1036573

Ion Ratio Lower Upper

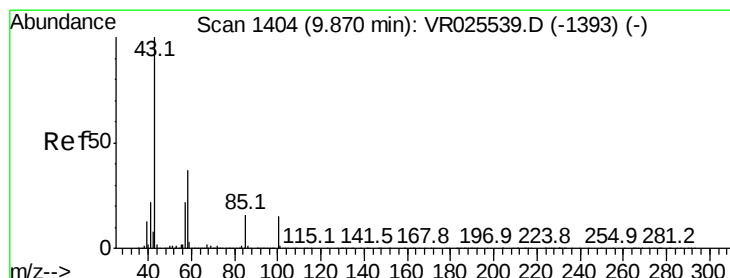
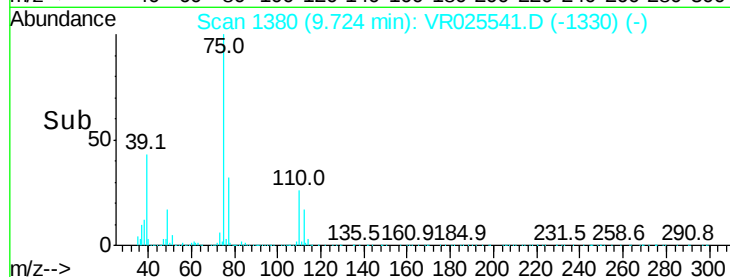
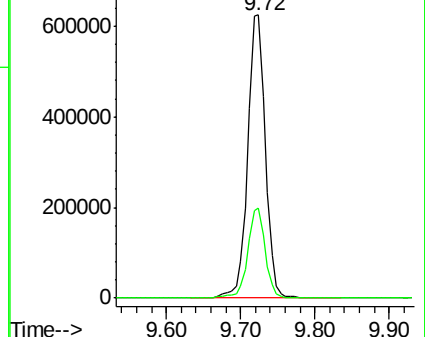
75 100

77 31.8 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VR0

Ion 77.05 (76.75 to 77.75): VR0



#40

4-Methyl-2-pentanone

Concen: 190.341 ug/L

RT: 9.87 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

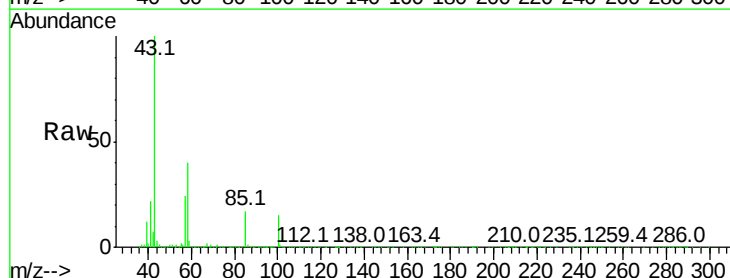
Tgt Ion: 43 Resp: 2662161

Ion Ratio Lower Upper

43 100

58 39.5 31.0 46.6

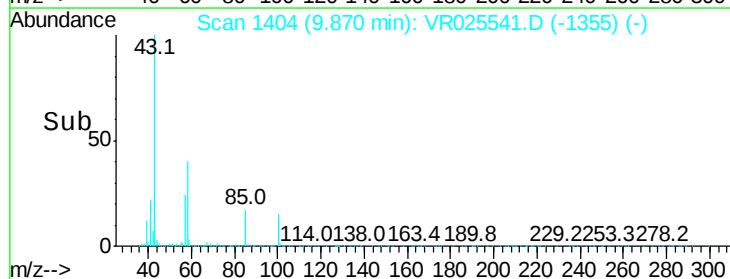
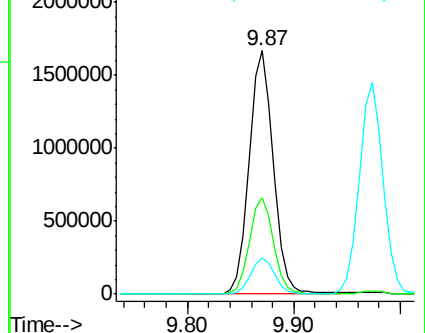
100 14.7 11.9 17.9

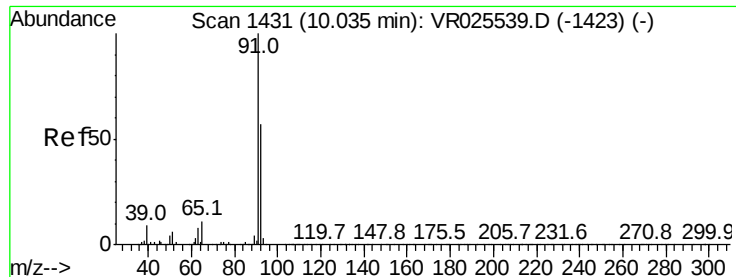


Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

Ion 100.15 (99.85 to 100.85): VR0





#42

Toluene

Concen: 21.440 ug/L

RT: 10.03 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

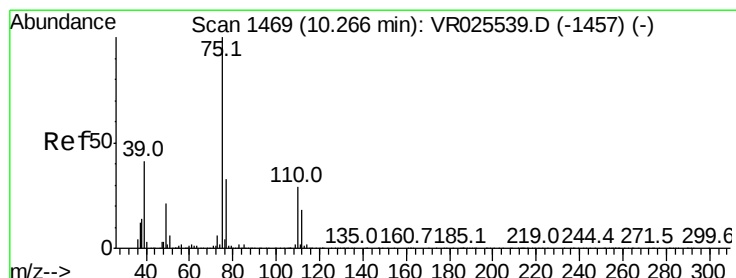
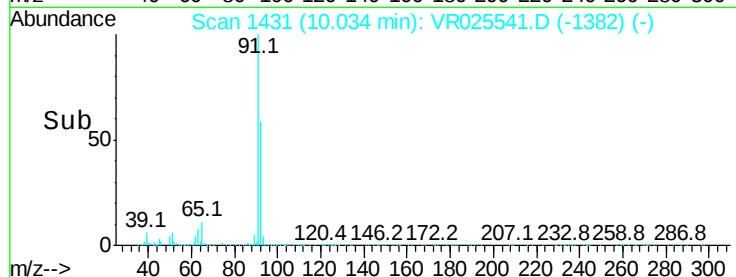
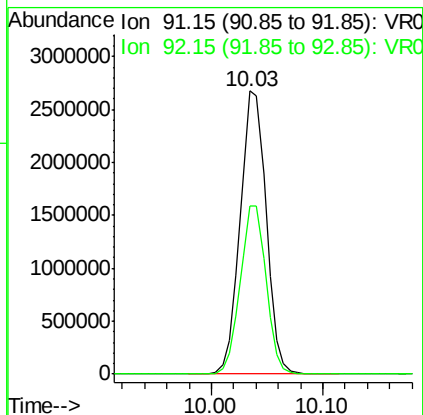
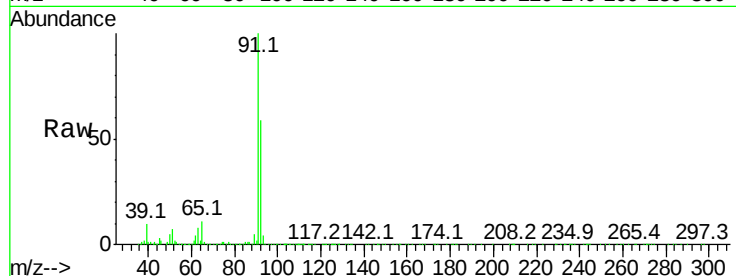
VSTD02085

Tgt Ion: 91 Resp: 4328965

Ion Ratio Lower Upper

91 100

92 59.4 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 18.556 ug/L

RT: 10.27 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VR025541.D

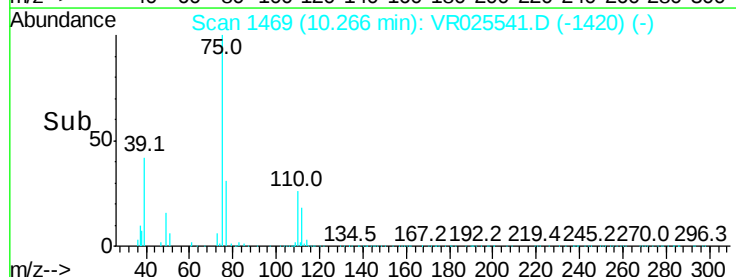
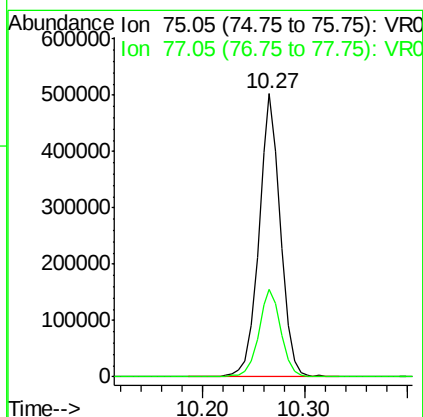
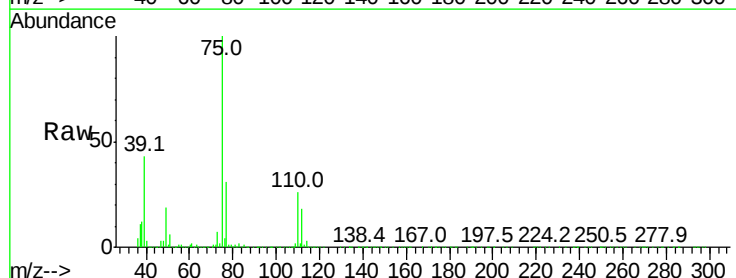
Acq: 30 Jul 2018 14:08

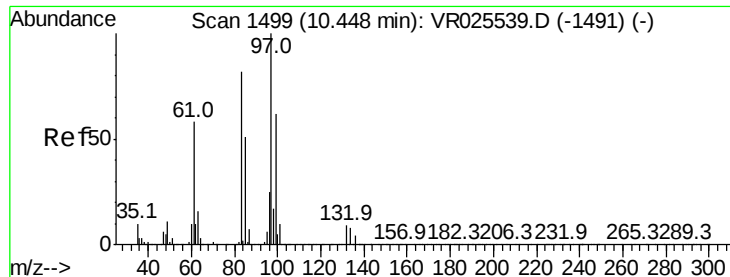
Tgt Ion: 75 Resp: 739490

Ion Ratio Lower Upper

75 100

77 30.9 22.8 42.4





#45

1,1,2-Trichloroethane

Concen: 16.902 ug/L

RT: 10.45 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

Tgt Ion: 97 Resp: 399676

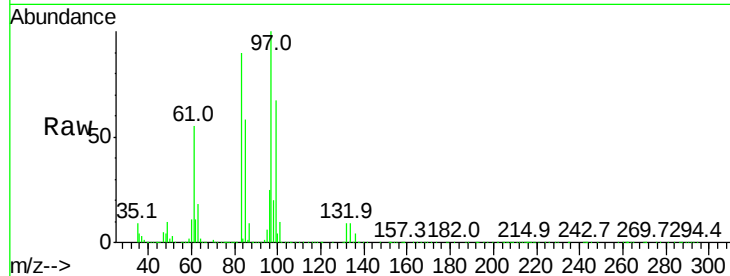
Ion Ratio Lower Upper

97 100

99 66.7 43.4 80.6

83 89.5 57.3 106.5

85 58.1 35.8 66.4

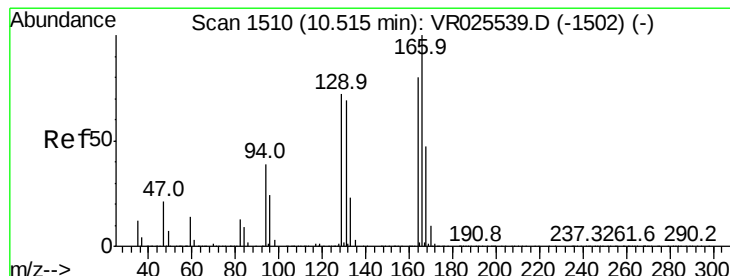
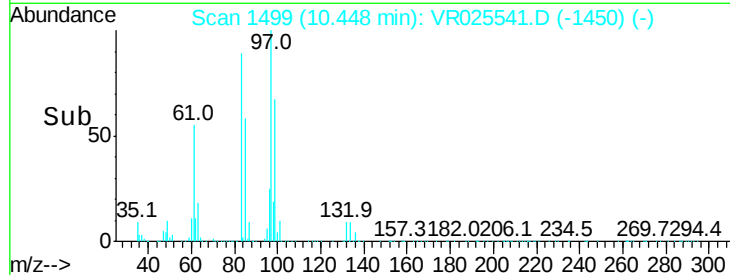
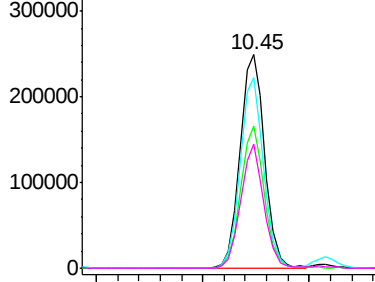


Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 23.827 ug/L

RT: 10.52 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Tgt Ion: 164 Resp: 822375

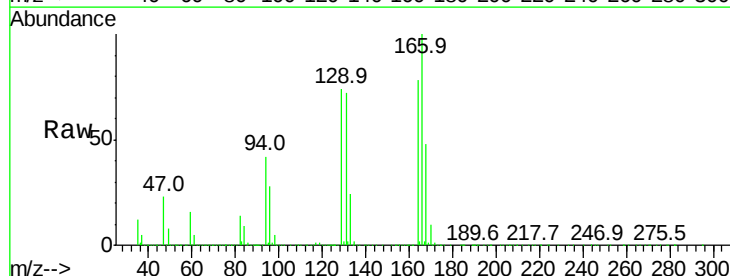
Ion Ratio Lower Upper

164 100

129 94.7 63.0 117.0

131 91.6 60.6 112.6

166 127.7 87.6 162.8

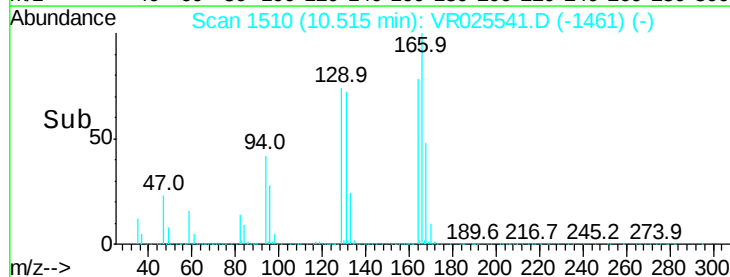
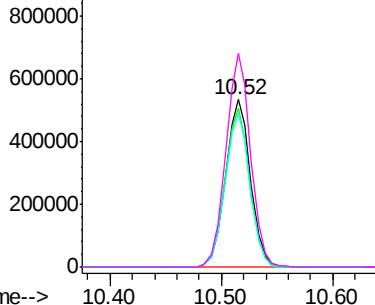


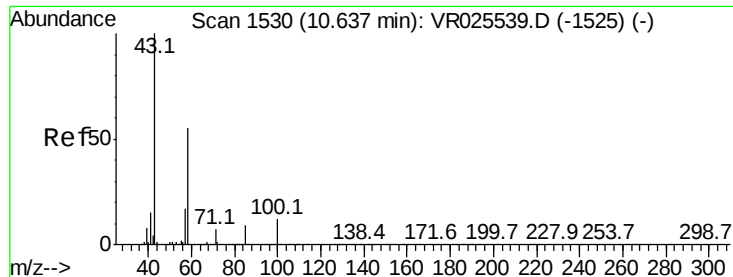
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

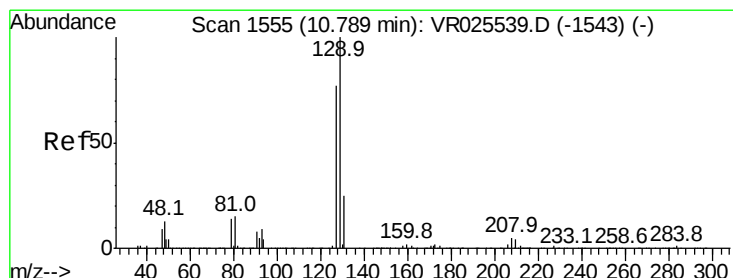
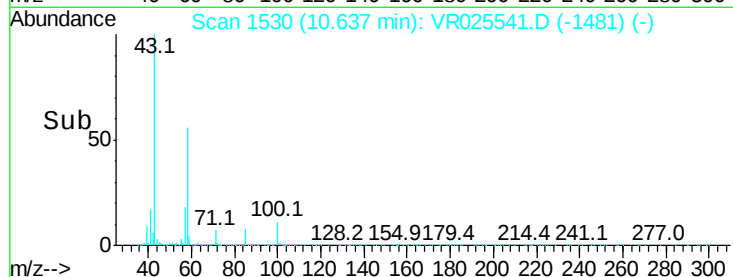
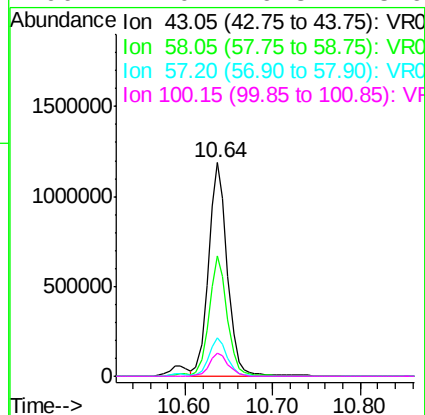
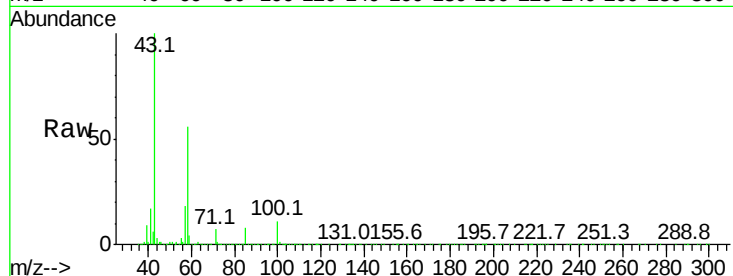




#48
2-Hexanone
Concen: 183.630 ug/L
RT: 10.64 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

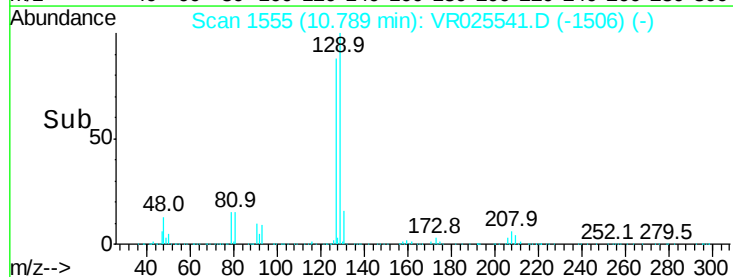
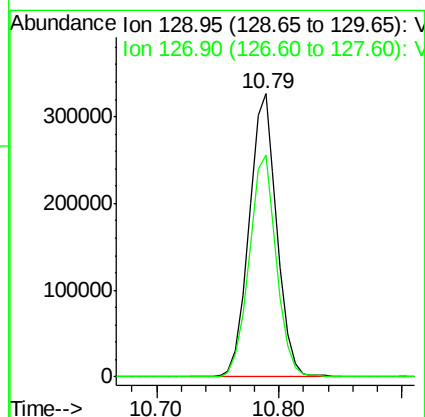
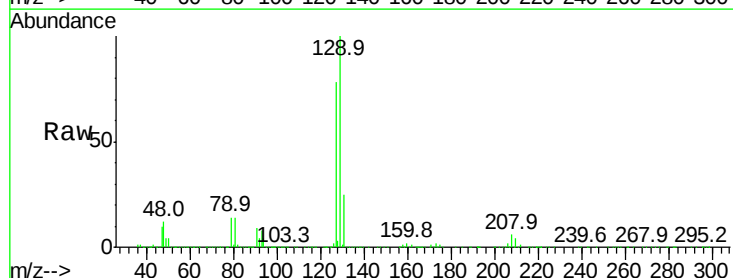
Instrument :
MSVOA_R
ClientSampleId :
VSTD02085

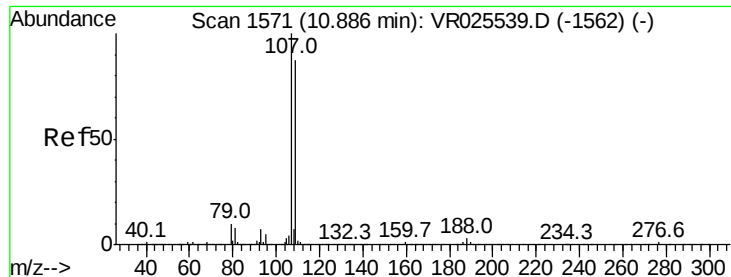
Tgt Ion: 43 Resp: 1766710
Ion Ratio Lower Upper
43 100
58 56.2 45.0 67.6
57 17.9 15.8 23.6
100 11.0 9.3 13.9



#49
Dibromochloromethane
Concen: 20.733 ug/L
RT: 10.79 min Scan# 1555
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Tgt Ion: 129 Resp: 511177
Ion Ratio Lower Upper
129 100
127 78.5 54.3 100.9

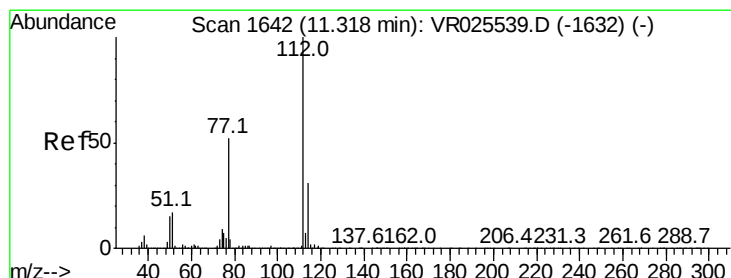
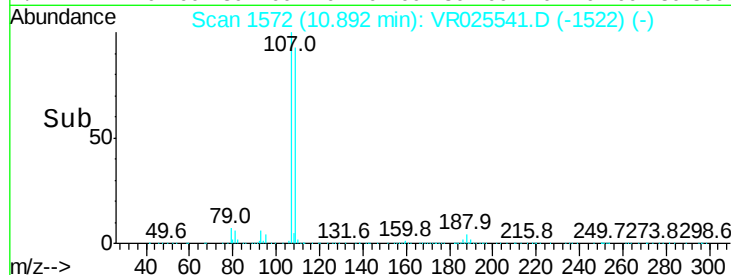
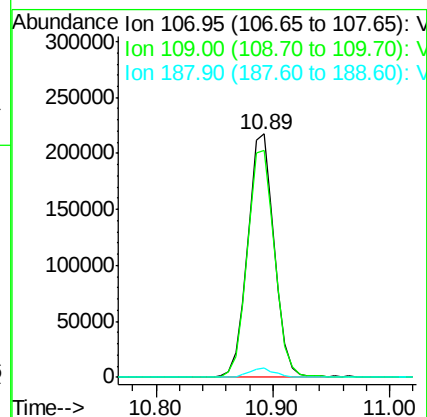
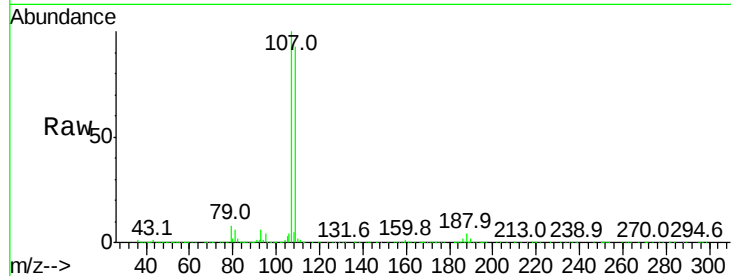




#50
1,2-Dibromoethane
Concen: 18.098 ug/L
RT: 10.89 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

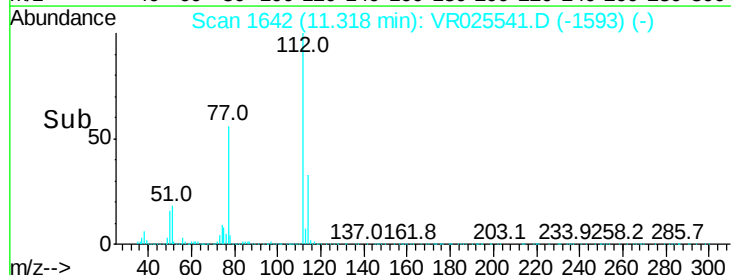
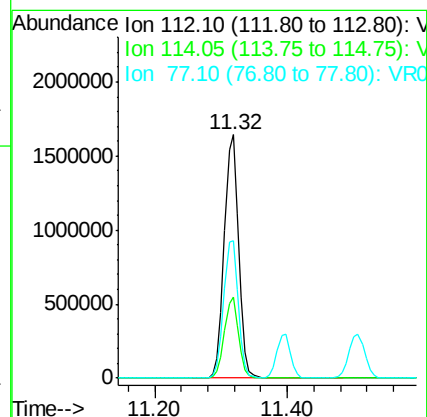
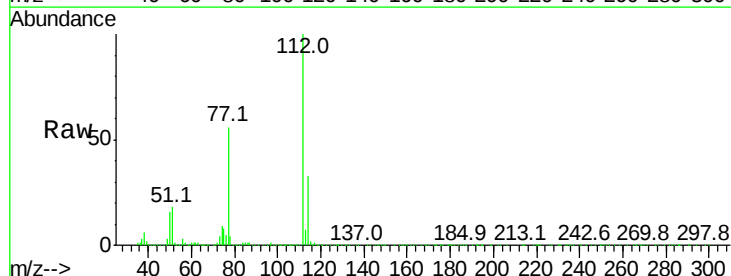
Instrument :
MSVOA_R
ClientSampleId :
VSTD02085

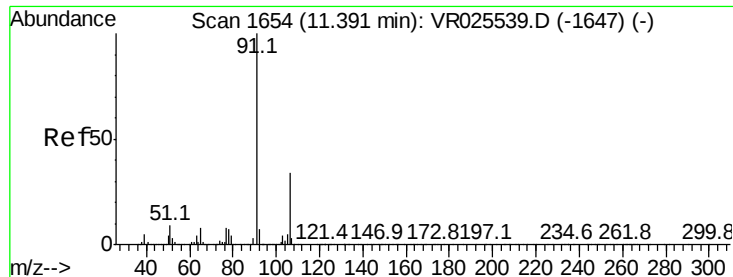
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.3	60.6	112.6
188	3.7	2.4	3.6#



#51
Chlorobenzene
Concen: 20.048 ug/L
RT: 11.32 min Scan# 1642
Delta R.T. -0.00 min
Lab File: VR025541.D
Acq: 30 Jul 2018 14:08

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.0	21.8	40.4
77	56.3	41.8	62.8





#52

Ethylbenzene

Concen: 21.970 ug/L

RT: 11.40 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

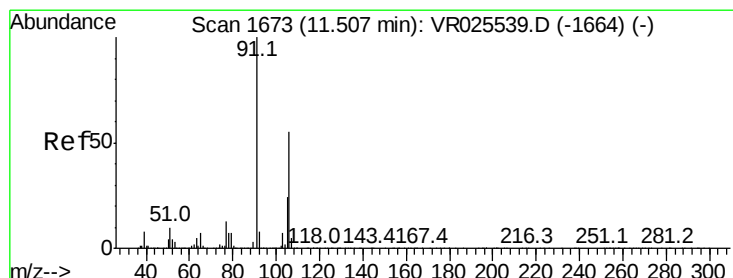
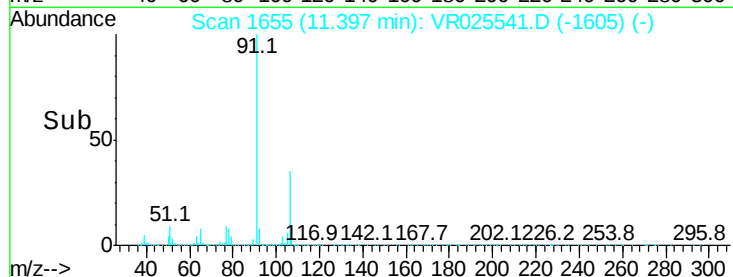
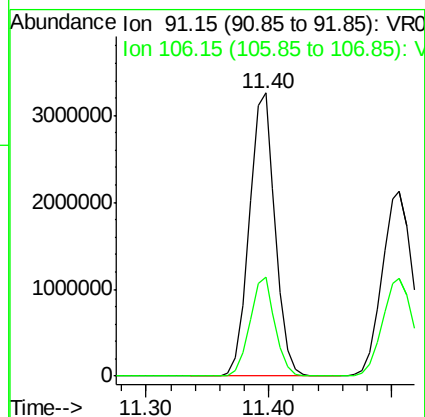
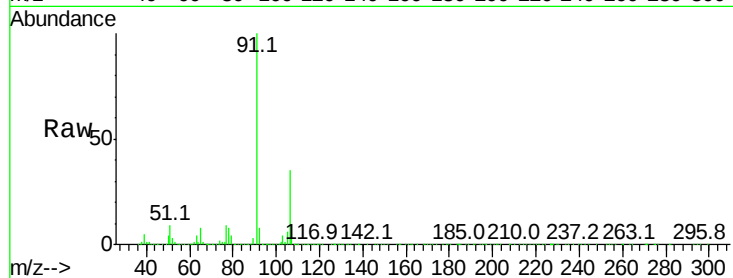
VSTD02085

Tgt Ion: 91 Resp: 4756541

Ion Ratio Lower Upper

91 100

106 34.8 23.6 43.8



#53

m,p-Xylene

Concen: 24.101 ug/L

RT: 11.51 min Scan# 1673

Delta R.T. -0.00 min

Lab File: VR025541.D

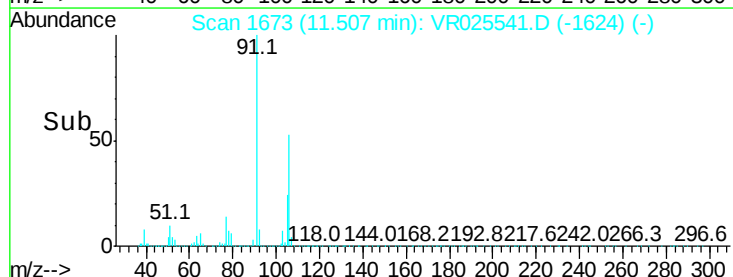
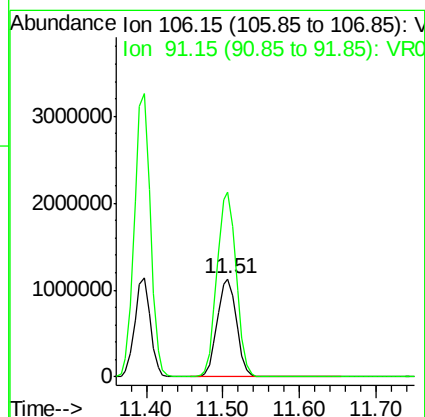
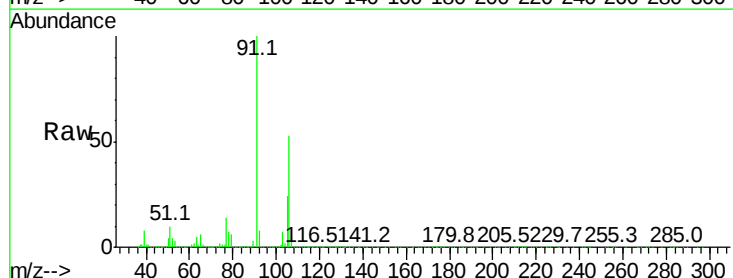
Acq: 30 Jul 2018 14:08

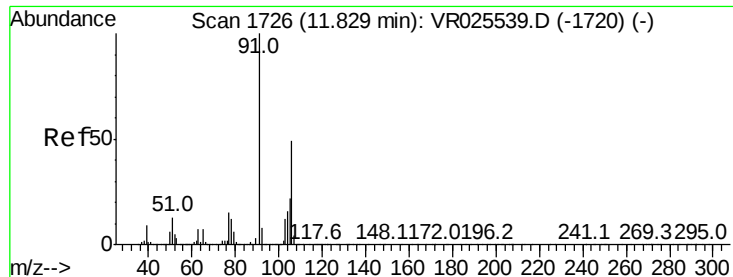
Tgt Ion: 106 Resp: 1958040

Ion Ratio Lower Upper

106 100

91 187.4 128.2 238.0





#54

o-Xylene

Concen: 26.433 ug/L

RT: 11.83 min Scan# 1726

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

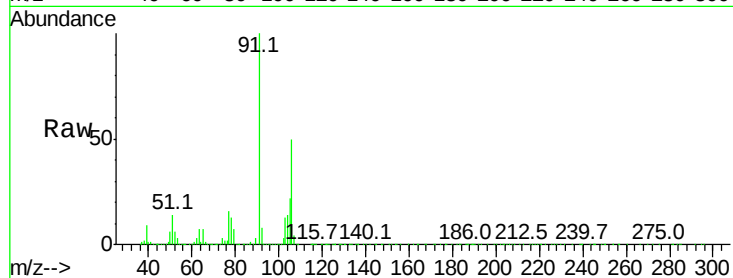
VSTD02085

Tgt Ion:106 Resp: 1849850

Ion Ratio Lower Upper

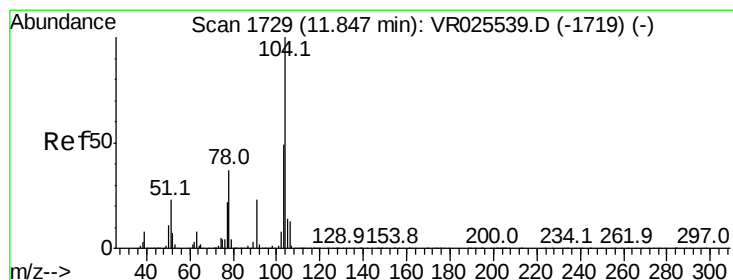
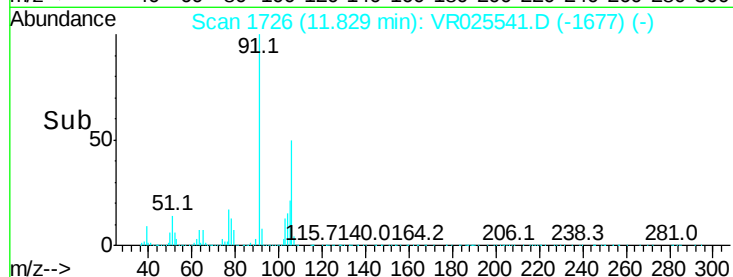
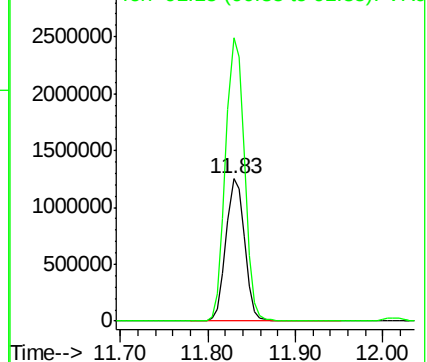
106 100

91 198.8 143.0 265.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 25.282 ug/L

RT: 11.85 min Scan# 1729

Delta R.T. -0.00 min

Lab File: VR025541.D

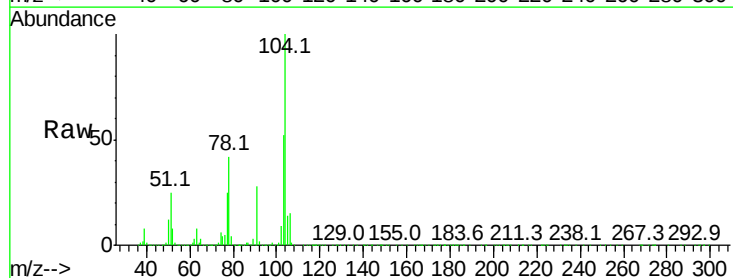
Acq: 30 Jul 2018 14:08

Tgt Ion:104 Resp: 2911022

Ion Ratio Lower Upper

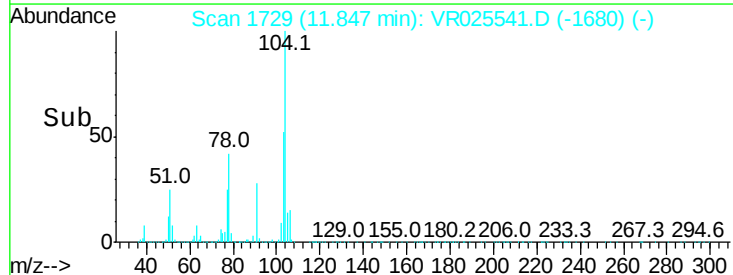
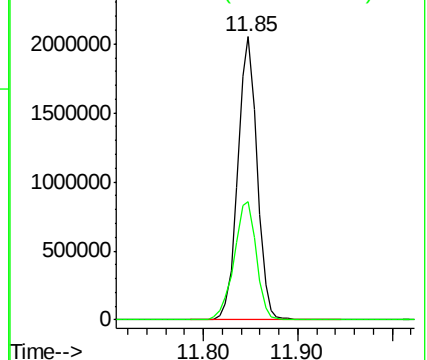
104 100

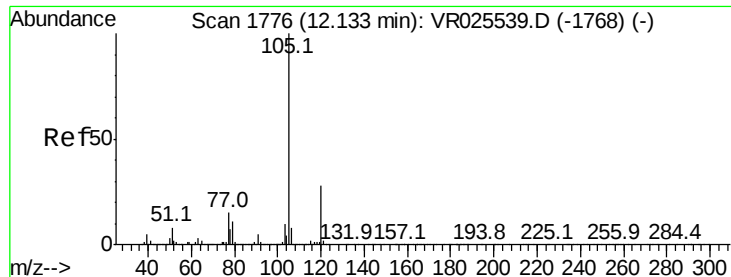
78 42.0 26.0 48.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0





#56

Isopropylbenzene

Concen: 25.458 ug/L

RT: 12.13 min Scan# 1776

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

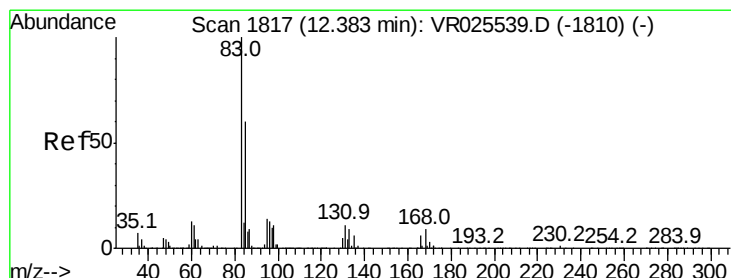
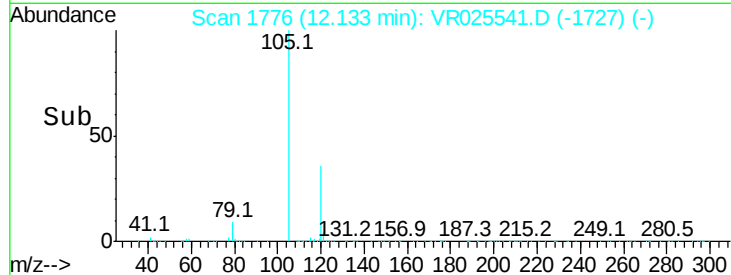
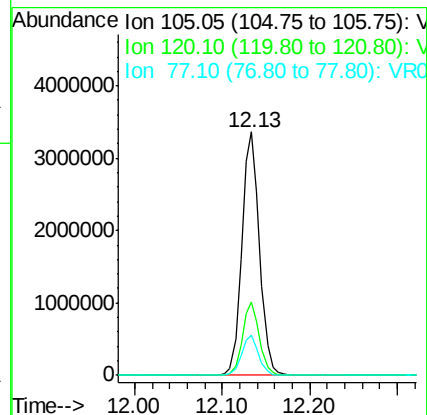
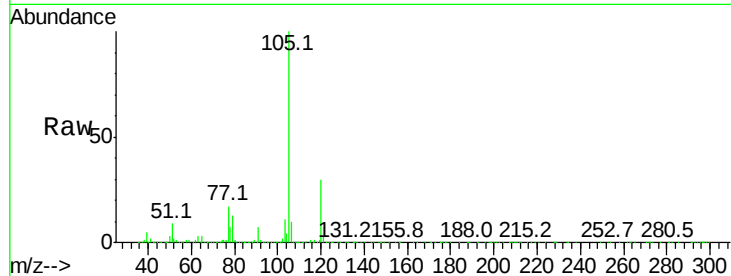
Tgt Ion:105 Resp: 4717643

Ion Ratio Lower Upper

105 100

120 28.8 22.5 33.7

77 15.8 11.8 17.6



#58

1,1,2,2-Tetrachloroethane

Concen: 16.274 ug/L

RT: 12.39 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

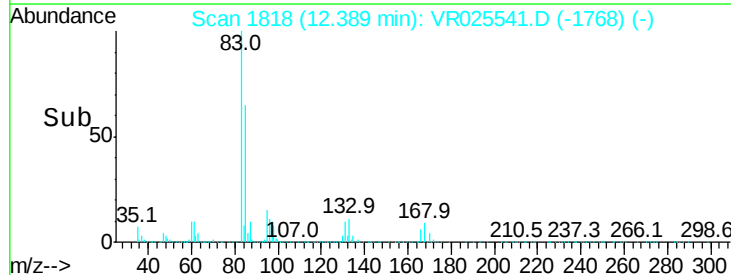
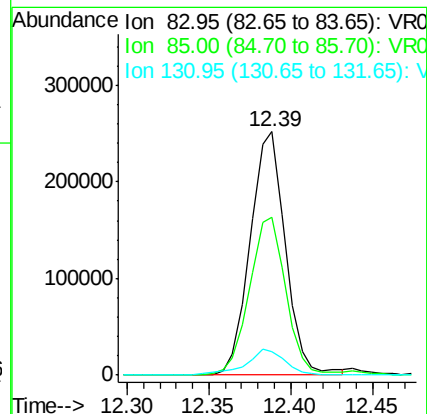
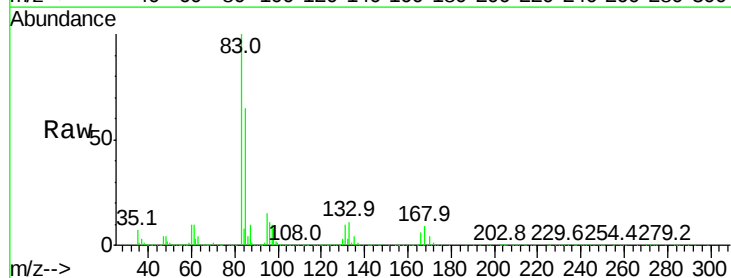
Tgt Ion: 83 Resp: 379034

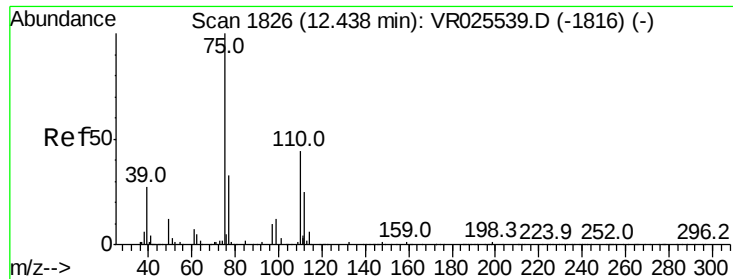
Ion Ratio Lower Upper

83 100

85 64.8 42.5 78.9

131 9.7 8.6 13.0





#59

1,2,3-Trichloropropane

Concen: 14.735 ug/L

RT: 12.44 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

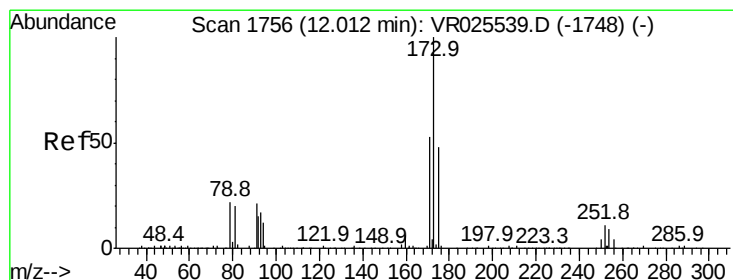
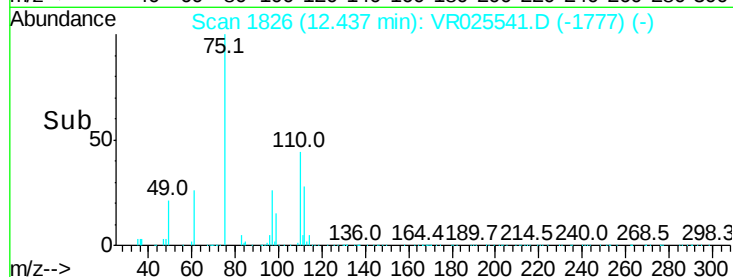
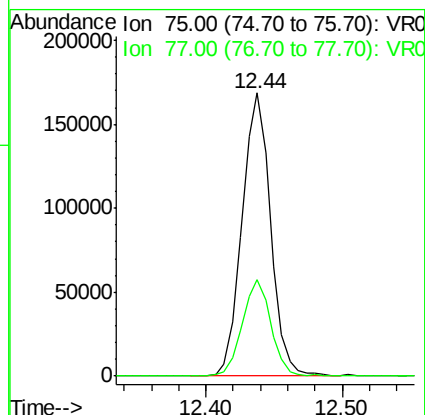
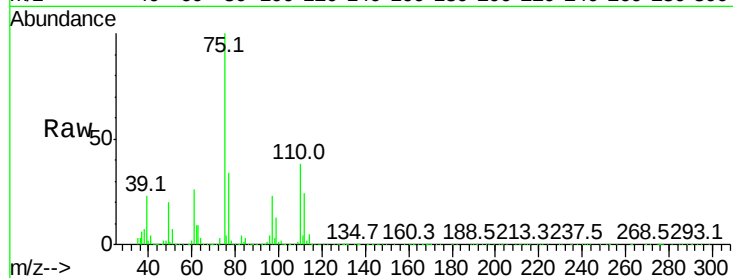
VSTD02085

Tgt Ion: 75 Resp: 247062

Ion Ratio Lower Upper

75 100

77 34.3 24.7 37.1



#61

Bromoform

Concen: 20.950 ug/L

RT: 12.01 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

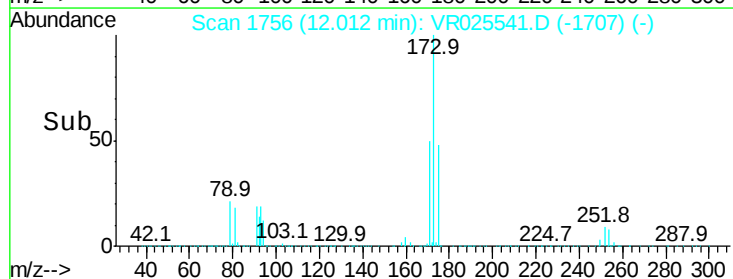
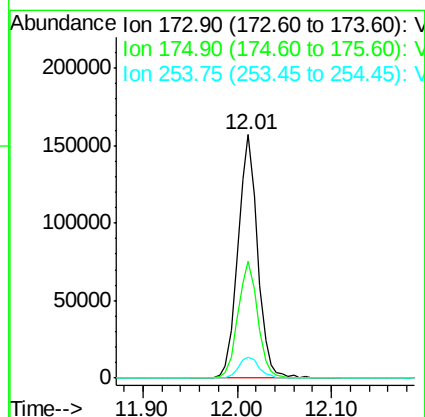
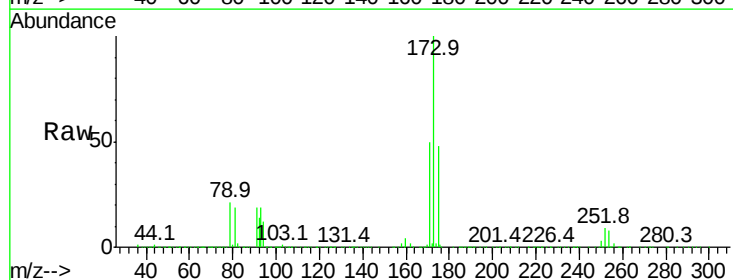
Tgt Ion: 173 Resp: 226564

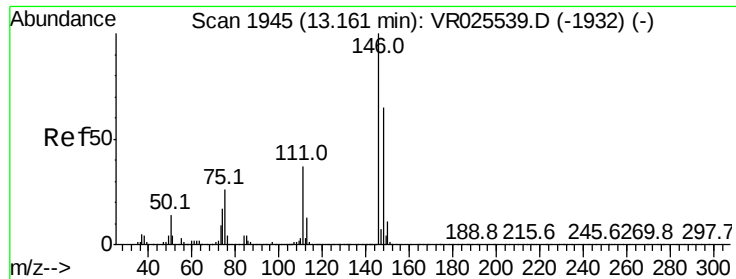
Ion Ratio Lower Upper

173 100

175 48.3 39.3 58.9

254 9.0 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 21.745 ug/L

RT: 13.16 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

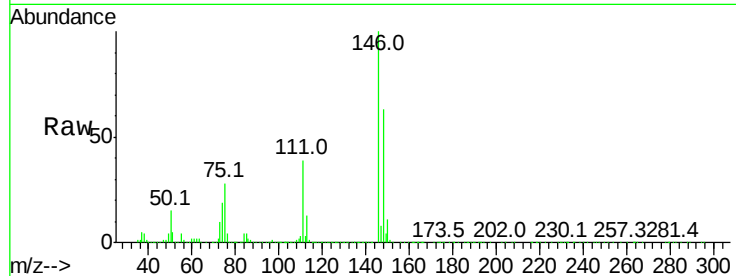
Tgt Ion:146 Resp: 1691827

Ion Ratio Lower Upper

146 100

111 39.2 26.2 48.6

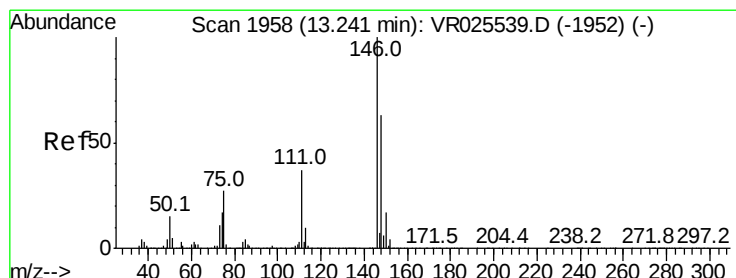
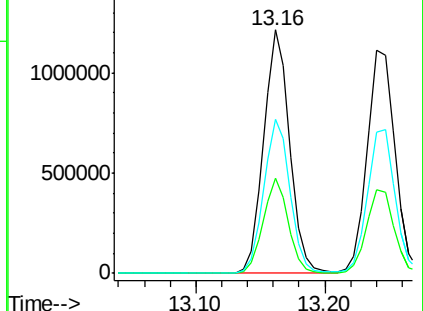
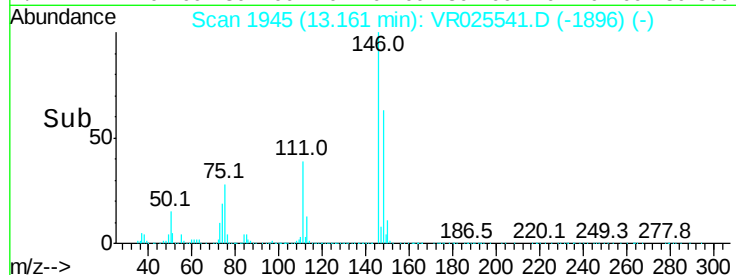
148 63.5 45.2 84.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 19.130 ug/L

RT: 13.24 min Scan# 1958

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

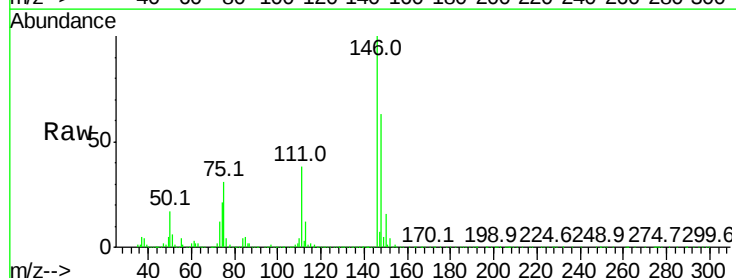
Tgt Ion:146 Resp: 1652309

Ion Ratio Lower Upper

146 100

111 37.6 25.6 47.6

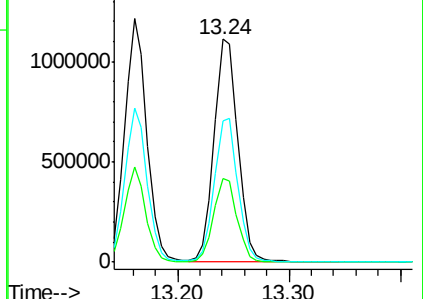
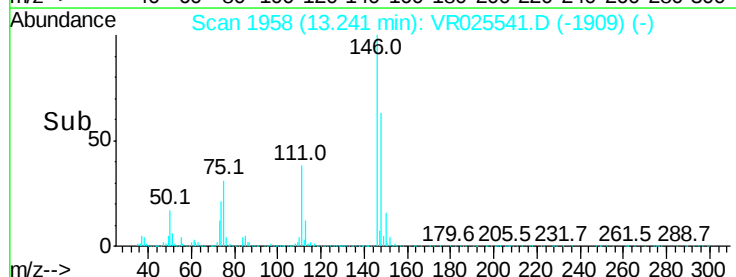
148 63.3 44.2 82.0

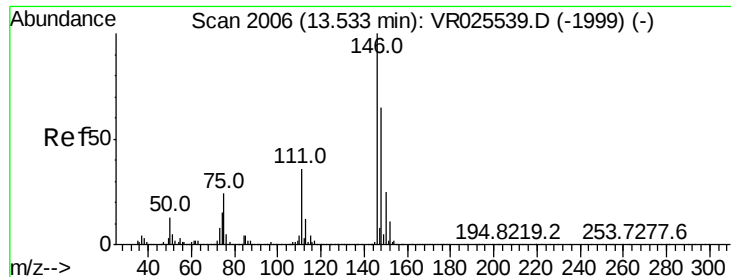


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 19.937 ug/L

RT: 13.53 min Scan# 2006

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

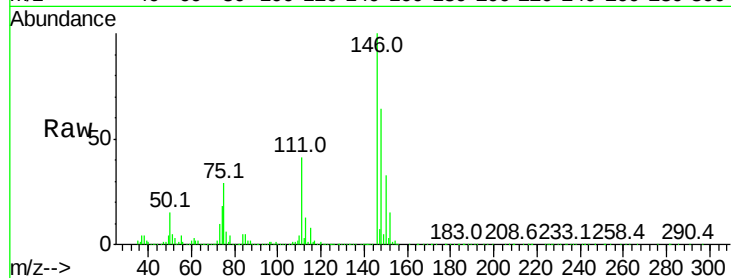
Tgt Ion:146 Resp: 1347940

Ion Ratio Lower Upper

146 100

111 41.1 28.9 43.3

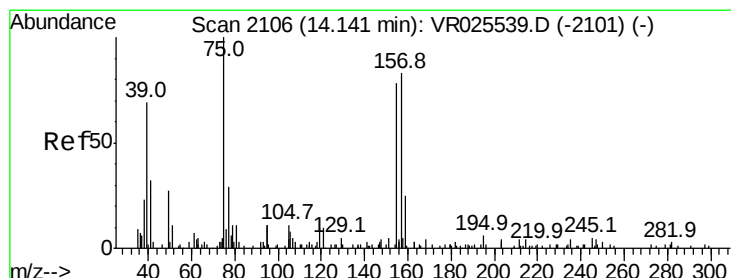
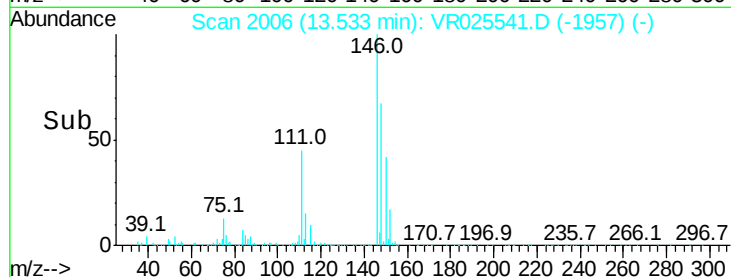
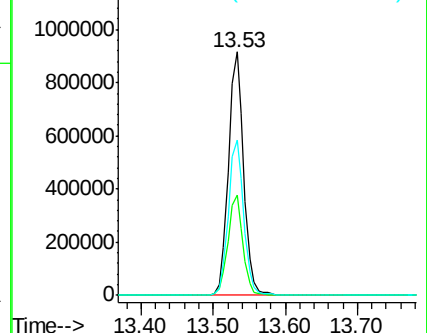
148 63.8 52.1 78.1



Abundance Ion 145.95 (145.65 to 146.65): 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: 12.152 ug/L

RT: 14.15 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

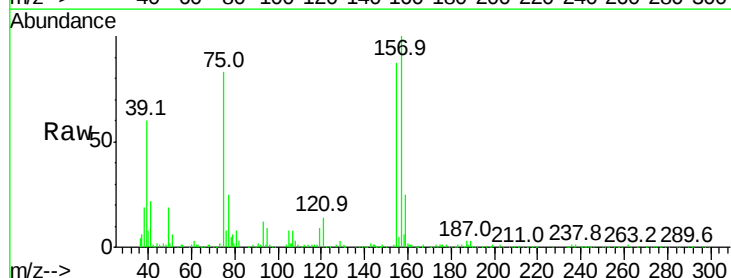
Tgt Ion: 75 Resp: 36342

Ion Ratio Lower Upper

75 100

155 104.8 62.3 93.5#

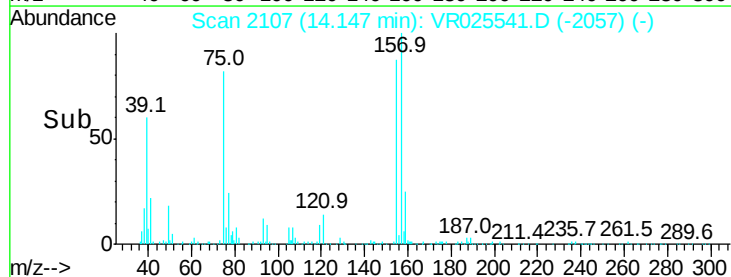
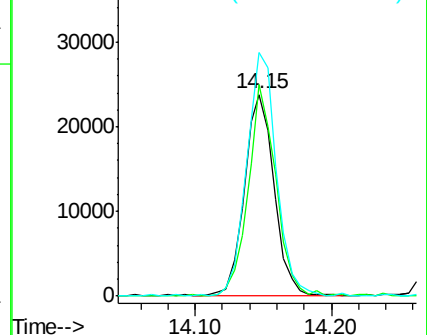
157 120.6 67.7 101.5#

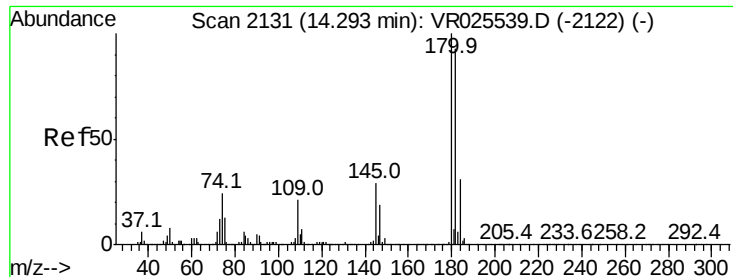


Abundance Ion 75.05 (74.75 to 75.75): VR0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

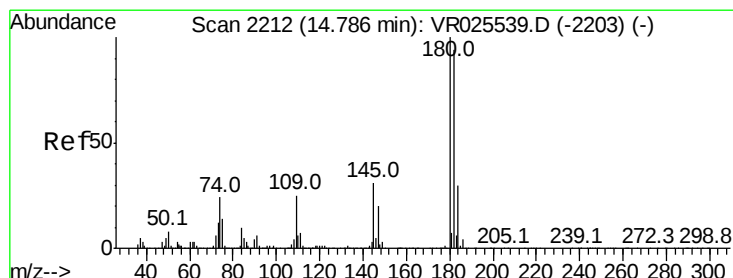
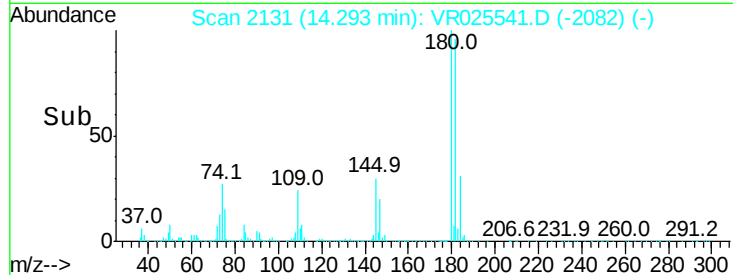
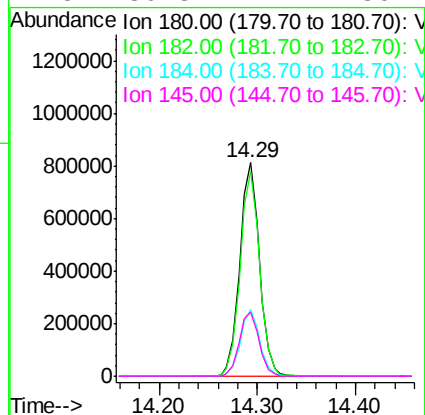
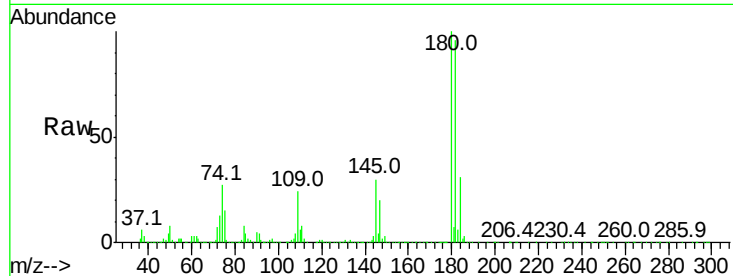




#67
 1,3,5-Trichlorobenzene
 Concen: 22.124 ug/L
 RT: 14.29 min Scan# 2131
 Delta R.T. -0.00 min
 Lab File: VR025541.D
 Acq: 30 Jul 2018 14:08

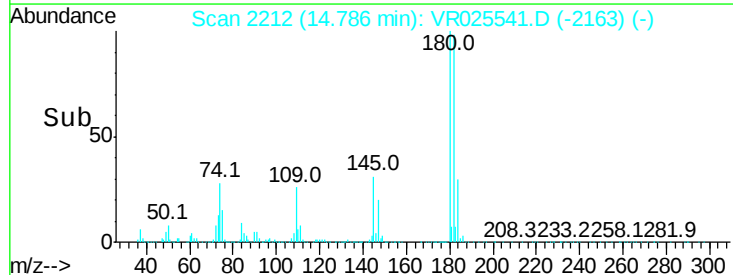
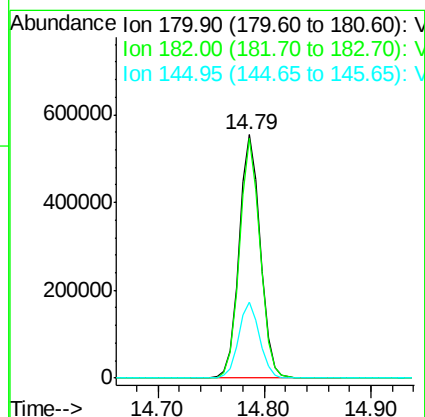
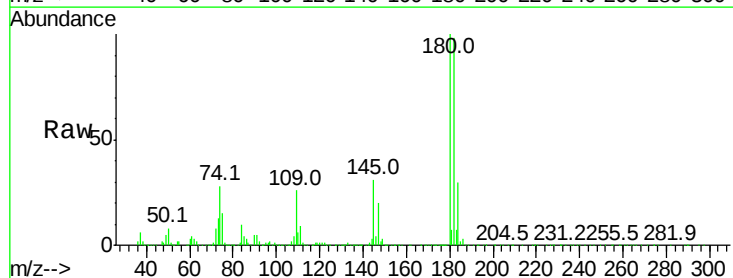
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD02085

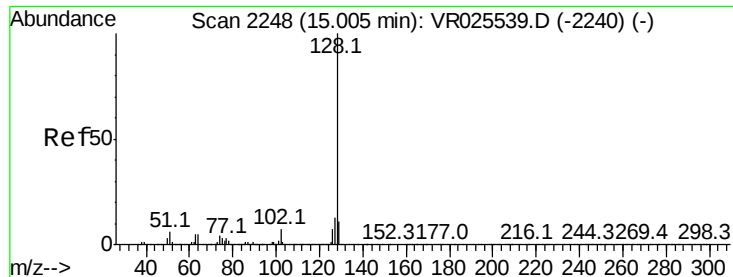
Tgt Ion:180 Resp: 1124168
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.0 112.4
 184 31.0 24.1 36.1
 145 30.3 24.1 36.1



#68
 1,2,4-trichlorobenzene
 Concen: 22.002 ug/L
 RT: 14.79 min Scan# 2212
 Delta R.T. -0.00 min
 Lab File: VR025541.D
 Acq: 30 Jul 2018 14:08

Tgt Ion:180 Resp: 768510
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.8 115.2
 145 30.9 24.0 36.0





#69

Naphthalene

Concen: 22.185 ug/L

RT: 15.00 min Scan# 2248

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

Instrument :

MSVOA_R

ClientSampleId :

VSTD02085

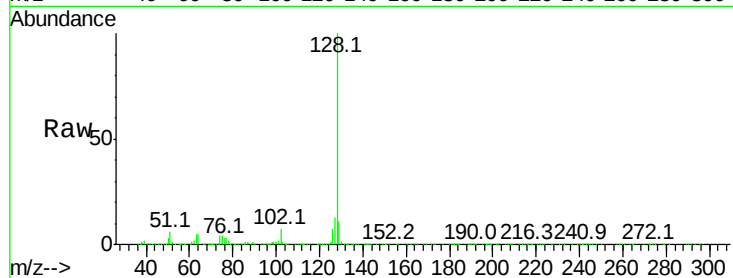
Tgt Ion:128 Resp: 992354

Ion Ratio Lower Upper

128 100

127 13.0 11.1 16.7

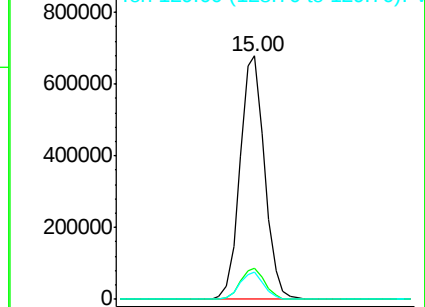
129 11.1 8.9 13.3



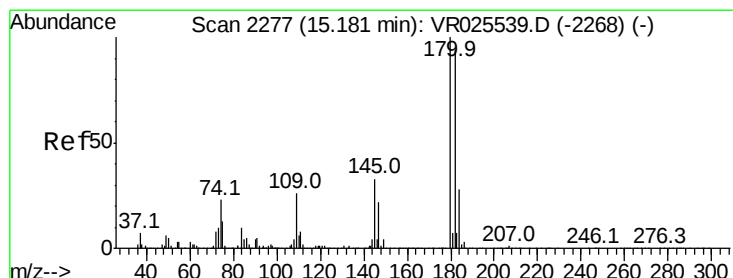
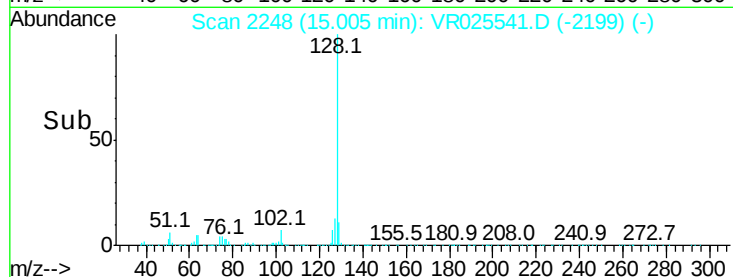
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 14.90 15.00 15.10



#70

1,2,3-Trichlorobenzene

Concen: 21.281 ug/L

RT: 15.18 min Scan# 2277

Delta R.T. -0.00 min

Lab File: VR025541.D

Acq: 30 Jul 2018 14:08

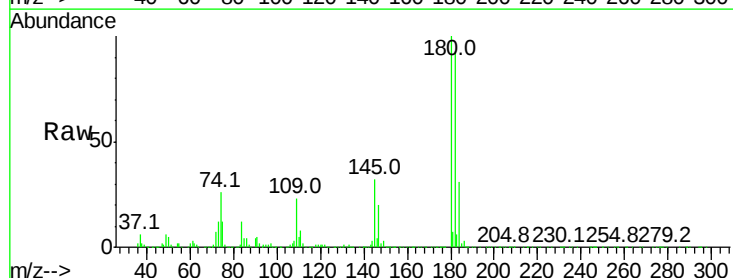
Tgt Ion:180 Resp: 573295

Ion Ratio Lower Upper

180 100

182 94.7 75.6 113.4

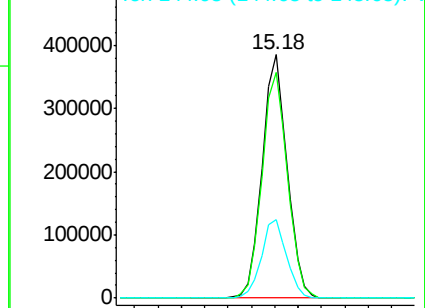
145 32.4 26.1 39.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V



Time--> 15.10 15.20

