

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091318\
 Data File : VR025709.D
 Acq On : 13 Sep 2018 11:23
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

Quant Time: Sep 14 06:42:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR090718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 14 06:30:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	728891	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	637082	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	296226	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.16	65	127463	4.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.40%
7) Chloroethane-d5	2.63	69	111319	4.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.80%
11) 1,1-Dichloroethene-d2	3.63	63	373112	4.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.20%
20) 2-Butanone-d5	6.59	46	124919	39.05	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.10%
24) Chloroform-d	7.20	84	340484	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	7.89	65	112321	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.40%
32) Benzene-d6	7.85	84	797171	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
36) 1,2-Dichloropropane-d6	8.90	67	211679	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	9.97	98	785983	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
43) trans-1,3-Dichloropropene-	10.24	79	49494	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	10.59	63	182724	53.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.70%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	99836	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.40%
64) 1,2-Dichlorobenzene-d4	13.52	152	183326	4.37	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.84	85	172990	4.65	ug/L	99
3) Chloromethane	2.01	50	181798	3.98	ug/L	94
5) Vinyl chloride	2.17	62	187887	4.14	ug/L	100
6) Bromomethane	2.52	94	138298	4.26	ug/L	99
8) Chloroethane	2.66	64	112495	4.22	ug/L	98
9) Trichlorofluoromethane	2.94	101	111780	1.34	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	211125	4.69	ug/L	97
12) 1,1-Dichloroethene	3.64	96	208578	4.39	ug/L	95
13) Acetone	3.71	43	73948	34.30	ug/L	93
14) Carbon disulfide	3.96	76	485338	4.33	ug/L	95
15) Methyl Acetate	4.20	43	26192	3.41	ug/L #	72
16) Methylene chloride	4.41	84	162951	3.87	ug/L	93
17) Methyl tert-butyl Ether	4.90	73	258977	4.43	ug/L	98
18) trans-1,2-Dichloroethene	4.89	96	269108	4.63	ug/L	98
19) 1,1-Dichloroethane	5.70	63	374753	4.18	ug/L	96
21) 2-Butanone	6.69	43	183391	40.31	ug/L	99
22) cis-1,2-Dichloroethene	6.68	96	227000	4.49	ug/L #	99

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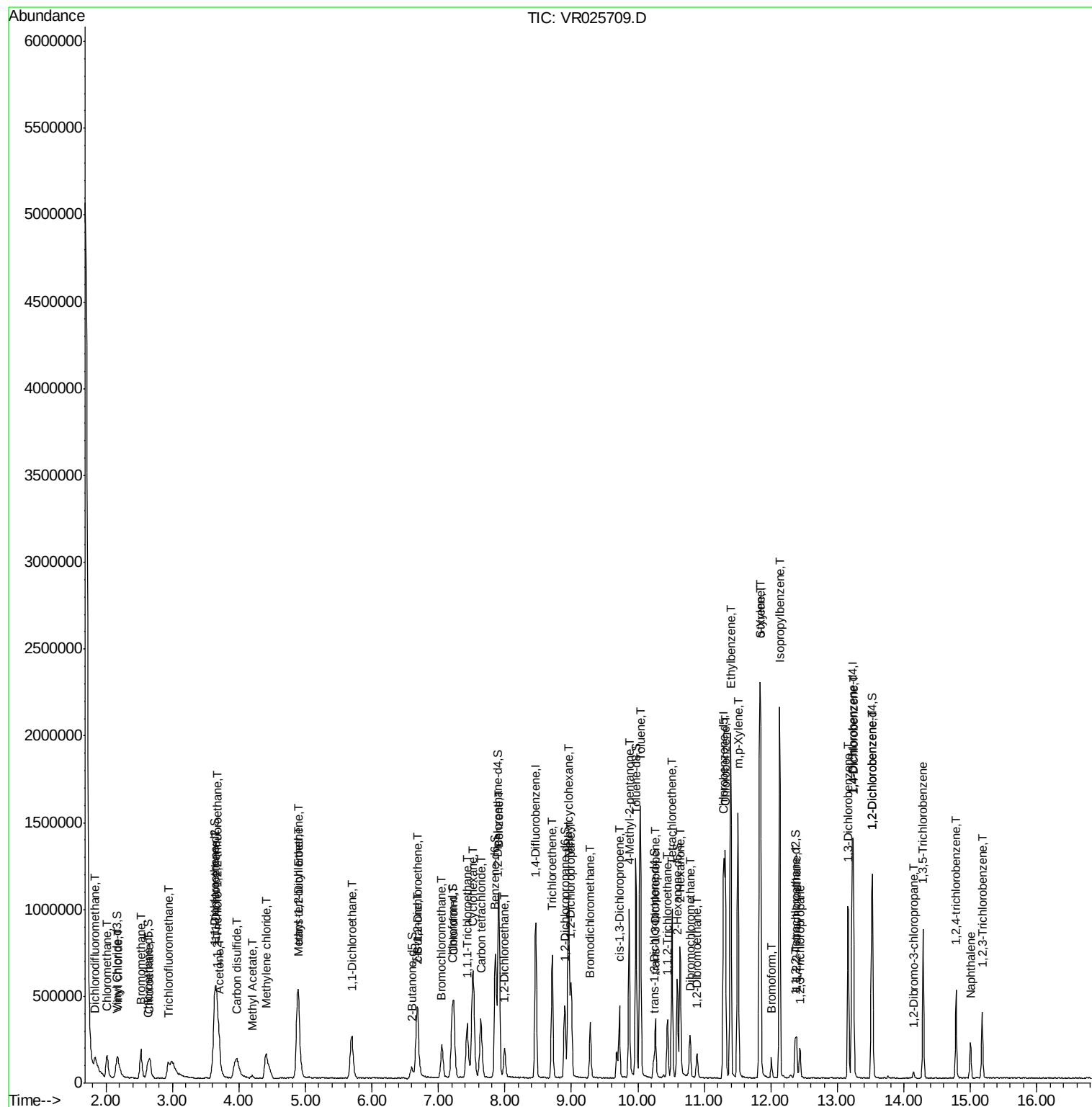
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.06	128	71047	4.10	ug/L	95
25) Chloroform	7.23	83	352744	4.31	ug/L	96
27) 1,2-Dichloroethane	8.00	62	140268	4.34	ug/L #	93
29) 1,1,1-Trichloroethane	7.43	97	274225	4.32	ug/L	99
30) Cyclohexane	7.52	56	356957	4.68	ug/L	99
31) Carbon tetrachloride	7.63	117	282132	4.59	ug/L	94
33) Benzene	7.91	78	1006953	4.44	ug/L	100
34) Trichloroethene	8.71	95	232514	4.23	ug/L	98
35) Methylcyclohexane	8.95	83	419510	4.94	ug/L	99
37) 1,2-Dichloropropane	9.00	63	218508	4.27	ug/L #	97
38) Bromodichloromethane	9.28	83	195925	4.26	ug/L	98
39) cis-1,3-Dichloropropene	9.72	75	232744	4.45	ug/L	98
40) 4-Methyl-2-pentanone	9.87	43	587099	46.42	ug/L	99
42) Toluene	10.04	91	1098232	4.73	ug/L	99
44) trans-1,3-Dichloropropene	10.26	75	169670	4.61	ug/L	98
45) 1,1,2-Trichloroethane	10.45	97	100893	4.21	ug/L	95
47) Tetrachloroethene	10.51	164	204830	4.55	ug/L	99
48) 2-Hexanone	10.63	43	432726	48.78	ug/L	99
49) Dibromochloromethane	10.79	129	116530	4.56	ug/L	100
50) 1,2-Dibromoethane	10.89	107	82132	4.31	ug/L	99
51) Chlorobenzene	11.32	112	666663	4.56	ug/L	100
52) Ethylbenzene	11.39	91	1230552	4.92	ug/L	96
53) m,p-Xylene	11.50	106	491861	4.88	ug/L	97
54) o-Xylene	11.83	106	442224	4.98	ug/L	97
55) Styrene	11.84	104	713873	5.00	ug/L	99
56) Isopropylbenzene	12.13	105	1173537	5.31	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	107752	4.62	ug/L	90
59) 1,2,3-Trichloropropane	12.43	75	68529	4.36	ug/L	98
61) Bromoform	12.01	173	50892	4.02	ug/L	93
62) 1,3-Dichlorobenzene	13.16	146	393785	4.26	ug/L	97
63) 1,4-Dichlorobenzene	13.24	146	449545	4.27	ug/L	96
65) 1,2-Dichlorobenzene	13.53	146	342344	4.29	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.15	75	8853	3.77	ug/L	89
67) 1,3,5-Trichlorobenzene	14.29	180	244313	4.44	ug/L	99
68) 1,2,4-trichlorobenzene	14.78	180	140132	4.15	ug/L	99
69) Naphthalene	15.00	128	149047	3.95	ug/L	98
70) 1,2,3-Trichlorobenzene	15.18	180	113700	4.26	ug/L	97

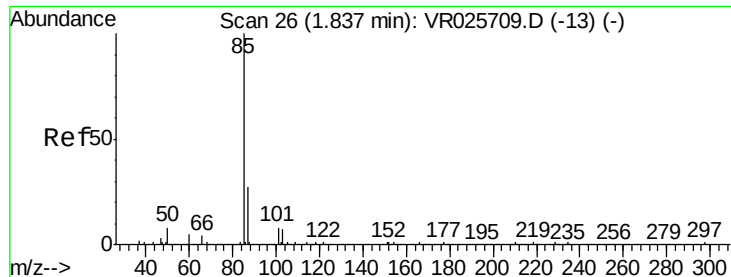
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.65 ug/L

RT: 1.84 min Scan# 26

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

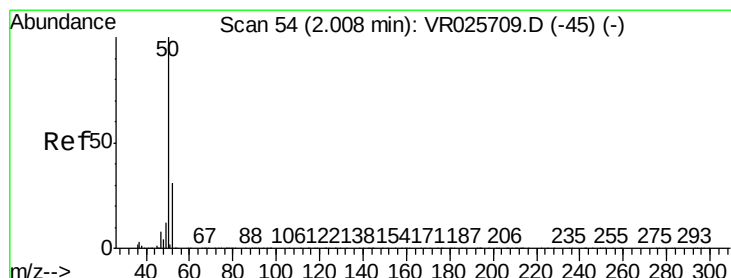
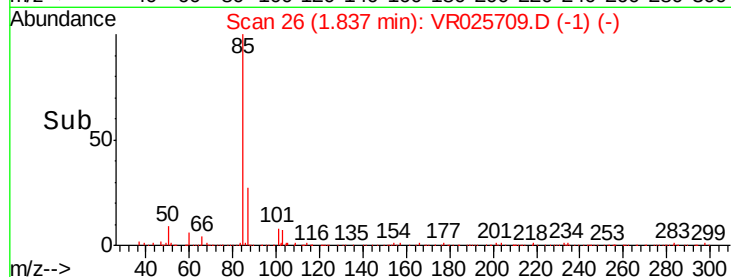
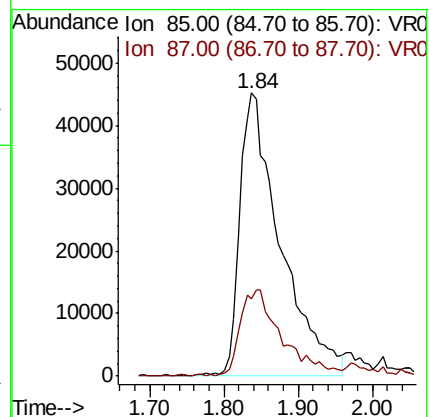
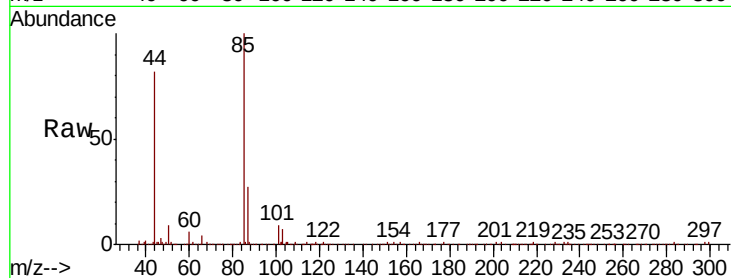
VSTD00501

Tot Ion: 85 Resp: 172990

Ion Ratio Lower Upper

85 100

87 31.2 25.3 37.9



#3

Chloromethane

Concen: 3.98 ug/L

RT: 2.01 min Scan# 54

Delta R.T. 0.00 min

Lab File: VR025709.D

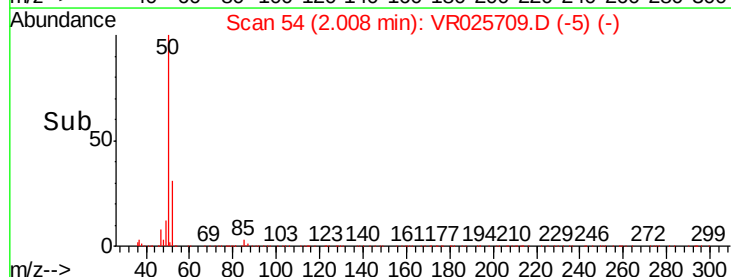
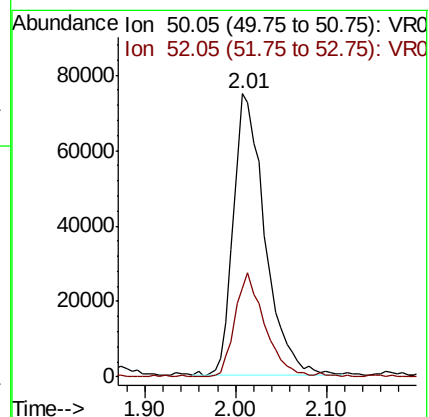
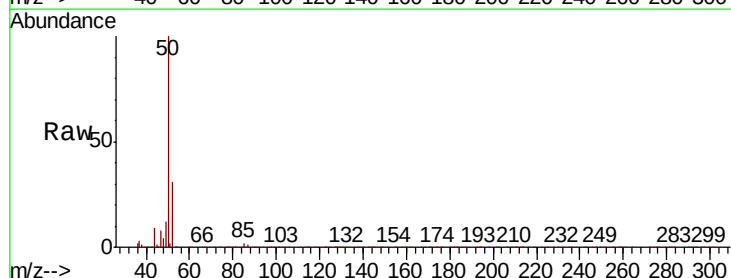
Acq: 13 Sep 2018 11:23

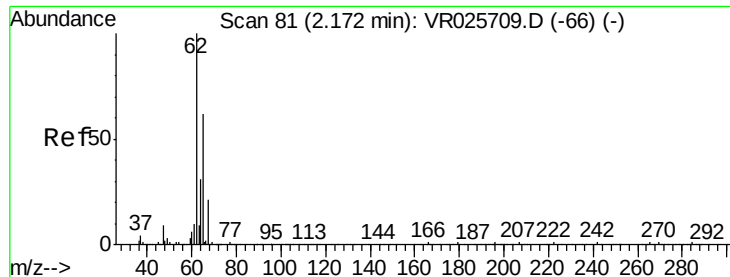
Tgt Ion: 50 Resp: 181798

Ion Ratio Lower Upper

50 100

52 31.5 24.6 45.8





#5

Vinyl chloride

Concen: 4.14 ug/L

RT: 2.17 min Scan# 81

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

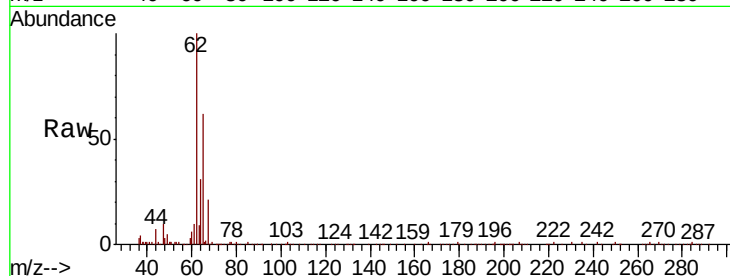
VSTD00501

Tot Ion: 62 Resp: 187887

Ion Ratio Lower Upper

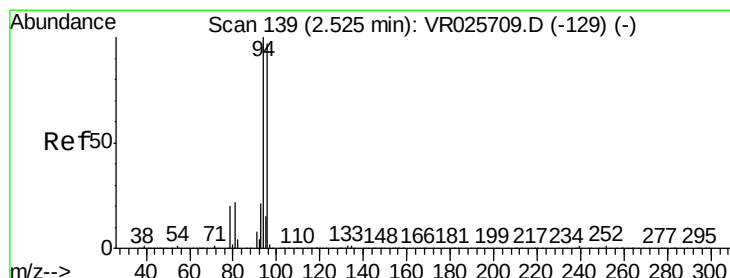
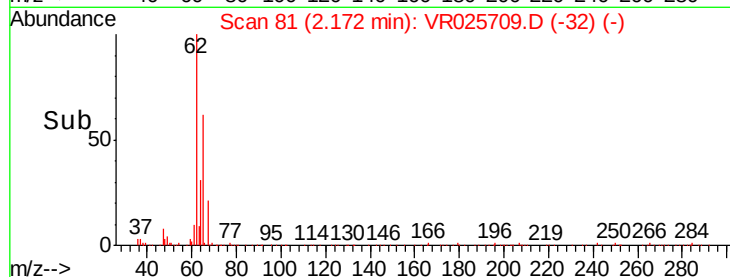
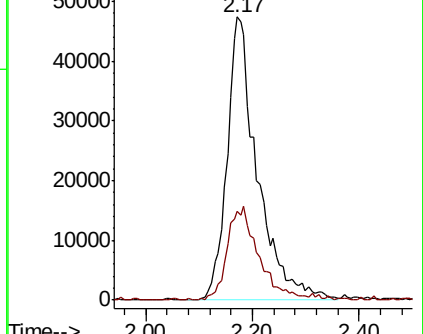
62 100

64 31.4 22.0 40.8



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 64.10 (63.80 to 64.80): VR0



#6

Bromomethane

Concen: 4.26 ug/L

RT: 2.52 min Scan# 139

Delta R.T. 0.00 min

Lab File: VR025709.D

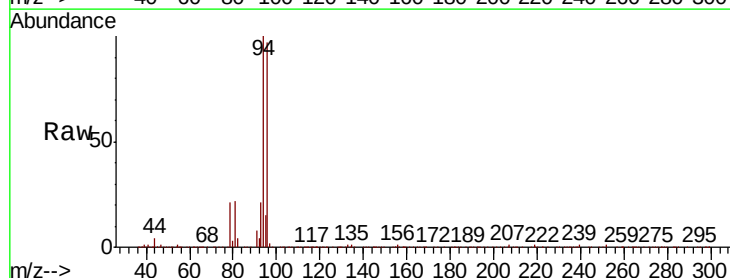
Acq: 13 Sep 2018 11:23

Tgt Ion: 94 Resp: 138298

Ion Ratio Lower Upper

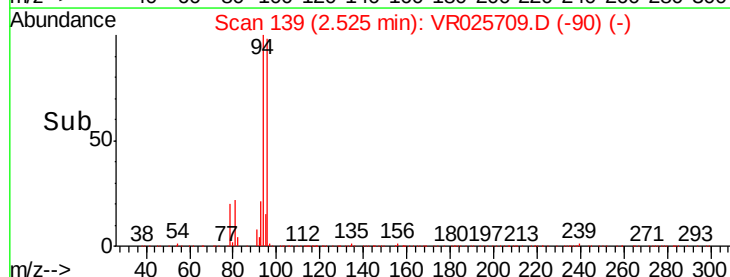
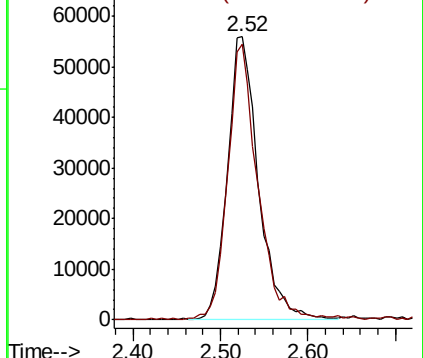
94 100

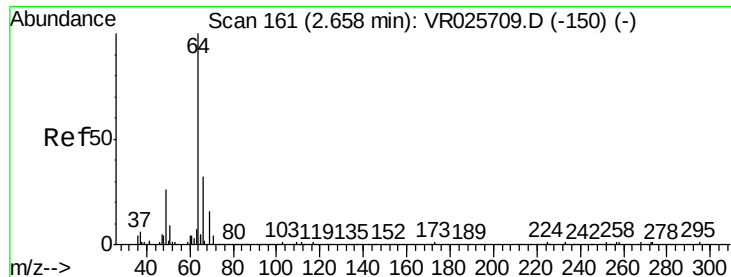
96 97.4 68.9 127.9



Abundance Ion 94.00 (93.70 to 94.70): VR0

Ion 96.00 (95.70 to 96.70): VR0

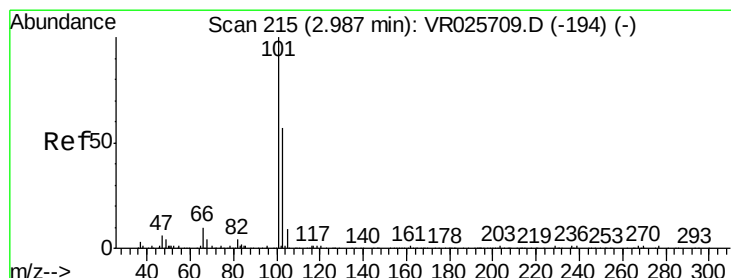
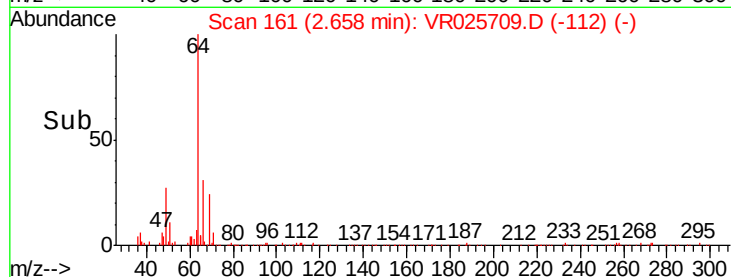
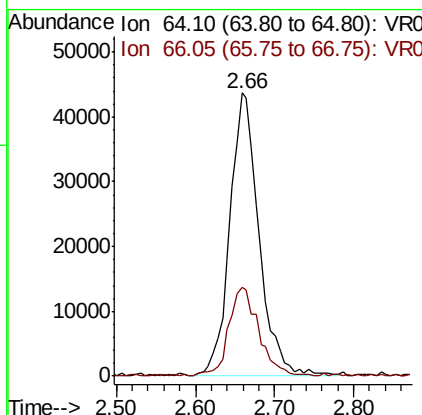
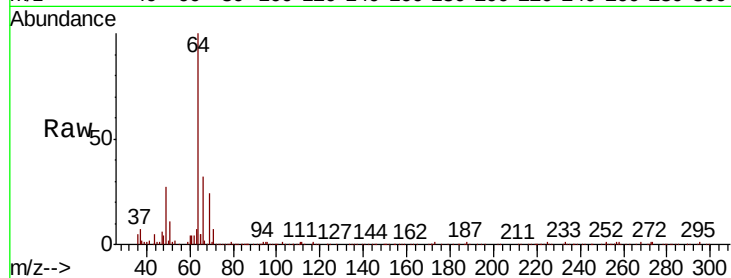




#8
Chloroethane
Concen: 4.22 ug/L
RT: 2.66 min Scan# 161
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

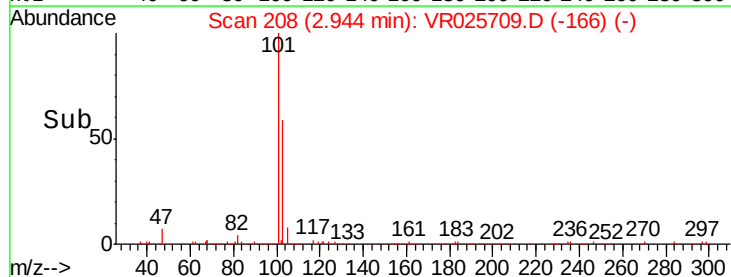
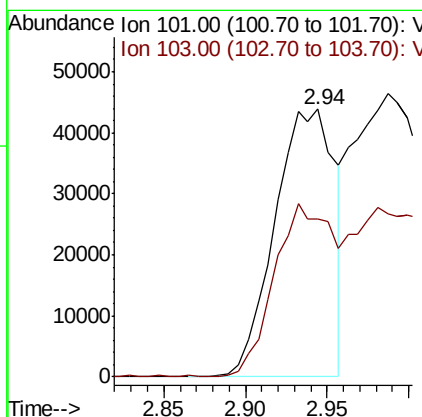
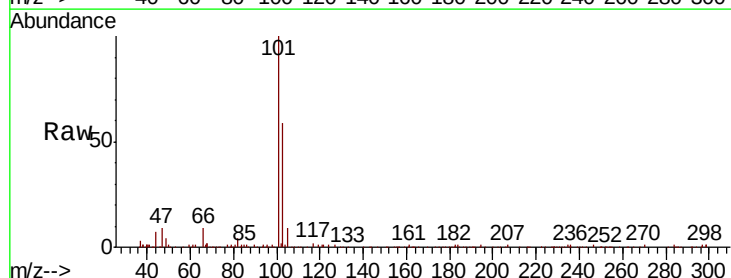
Instrument :
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VSTD00501

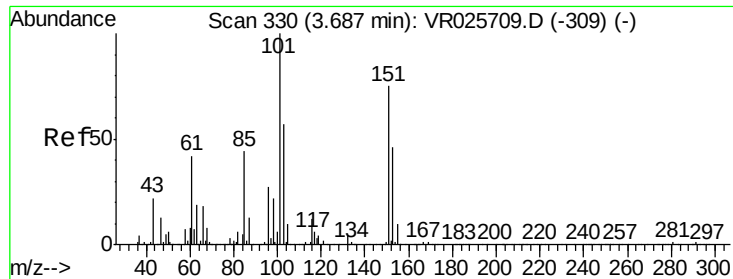
Tot Ion: 64 Resp: 112495
Ion Ratio Lower Upper
64 100
66 30.2 21.8 40.6



#9
Trichlorofluoromethane
Concen: 1.34 ug/L
RT: 2.94 min Scan# 208
Delta R.T. -0.04 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Tgt Ion:101 Resp: 111780
Ion Ratio Lower Upper
101 100
103 63.3 13.2 19.8#





#10

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

Concen: 4.69 ug/L

RT: 3.69 min Scan# 330

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

VSTD00501

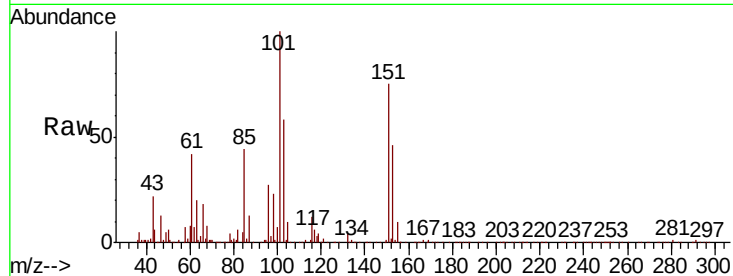
Tot Ion:101 Resp: 211125

Ion Ratio Lower Upper

101 100

85 47.1 38.1 57.1

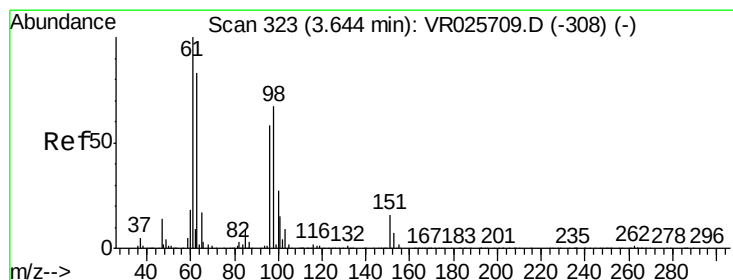
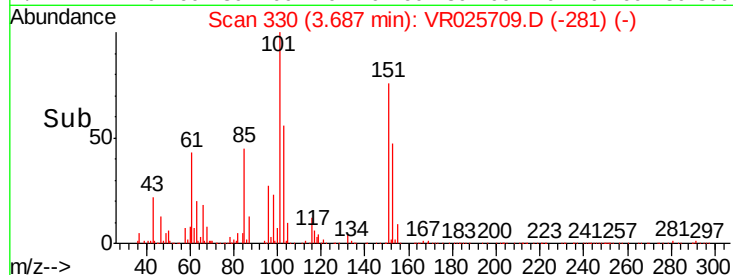
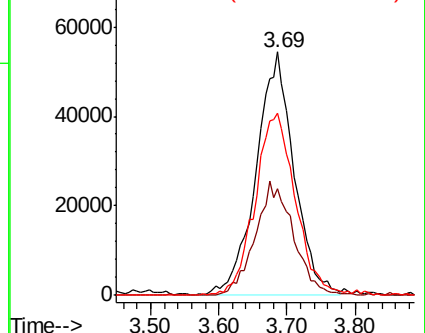
151 79.1 60.3 90.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.39 ug/L

RT: 3.64 min Scan# 323

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

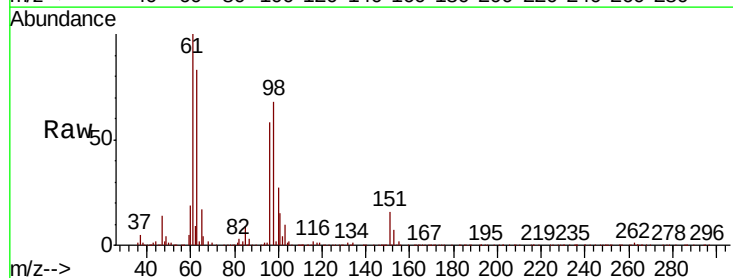
Tgt Ion: 96 Resp: 208578

Ion Ratio Lower Upper

96 100

61 171.9 128.4 238.4

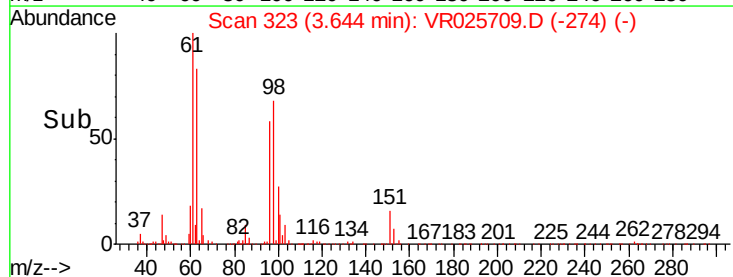
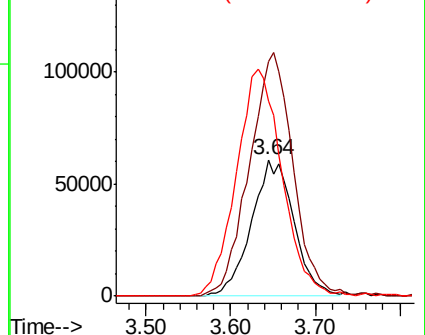
63 143.3 101.1 187.7

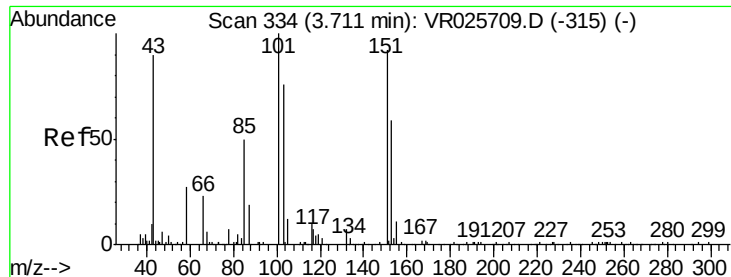


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 34.30 ug/L

RT: 3.71 min Scan# 334

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

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ClientSampleId :

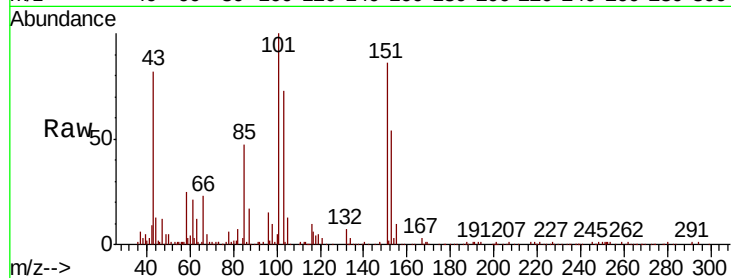
VSTD00501

Tot Ion: 43 Resp: 73948

Ion Ratio Lower Upper

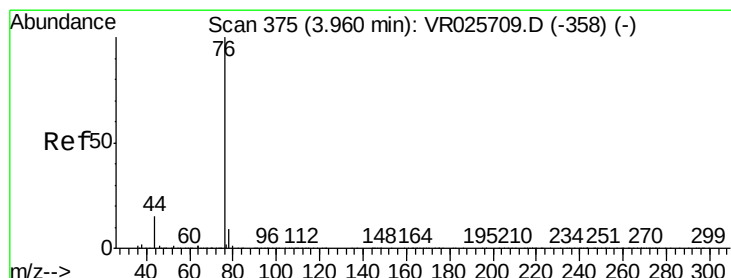
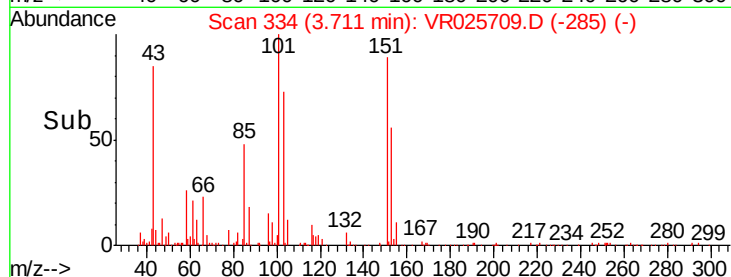
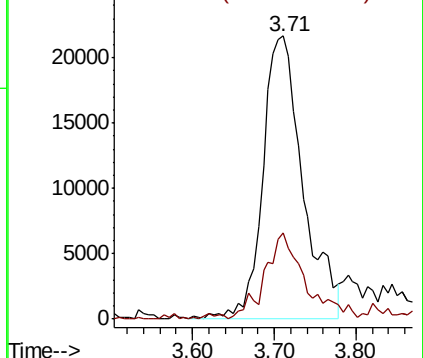
43 100

58 30.6 0.0 53.6



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0



#14

Carbon disulfide

Concen: 4.33 ug/L

RT: 3.96 min Scan# 375

Delta R.T. 0.00 min

Lab File: VR025709.D

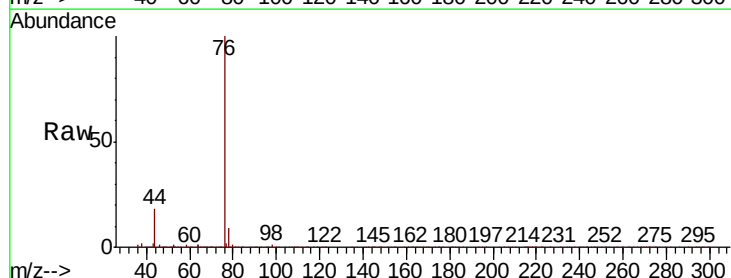
Acq: 13 Sep 2018 11:23

Tgt Ion: 76 Resp: 485338

Ion Ratio Lower Upper

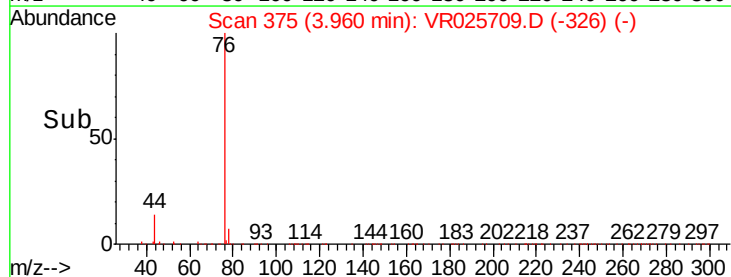
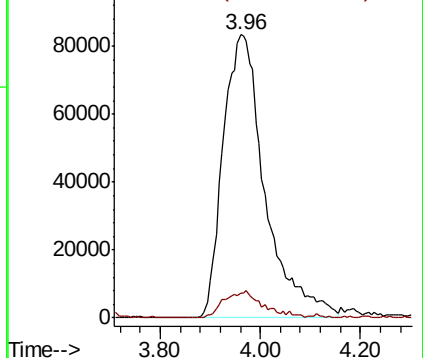
76 100

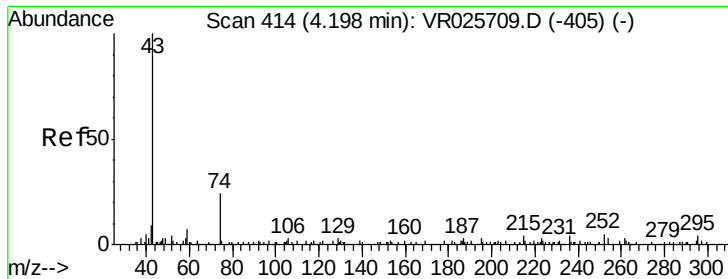
78 8.7 8.6 12.8



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0

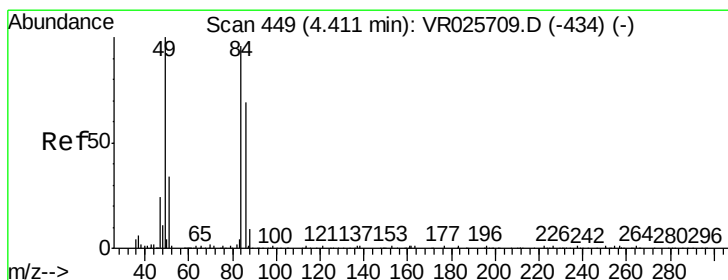
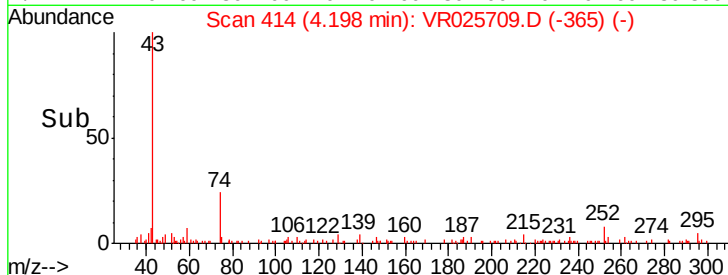
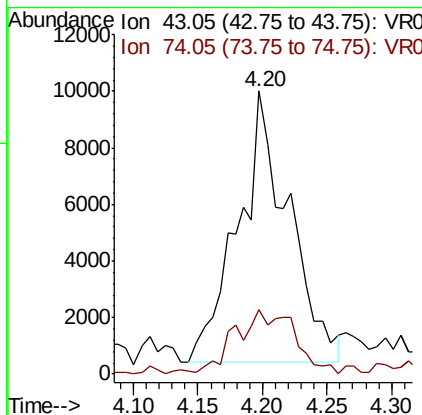
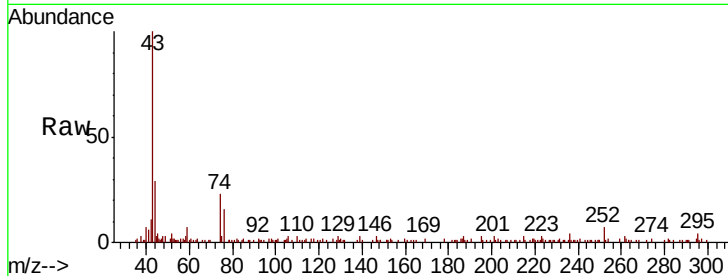




#15
Methyl Acetate
Concen: 3.41 ug/L
RT: 4.20 min Scan# 414
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

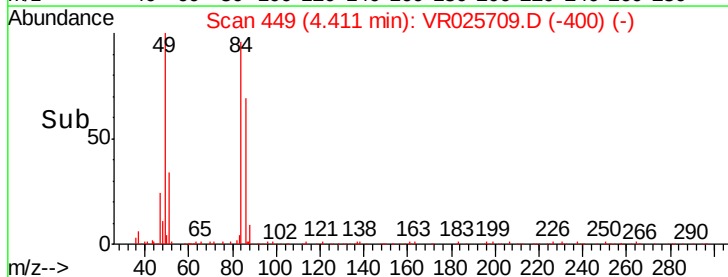
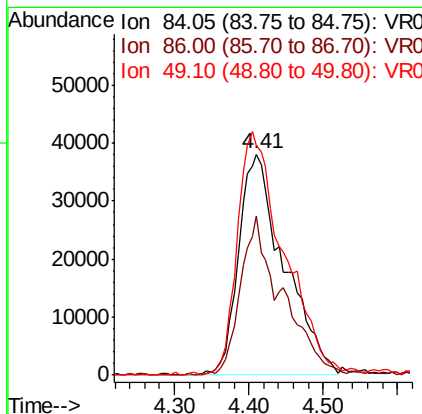
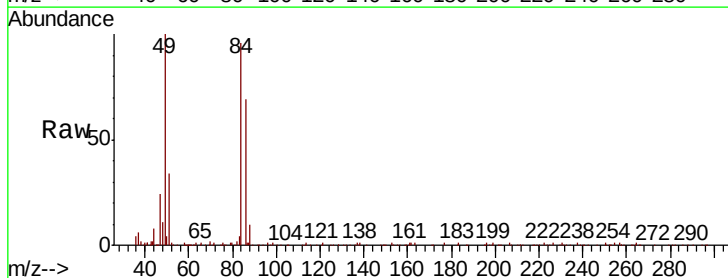
Instrument :
MSVOA_R
ClientSampleId :
VSTD00501

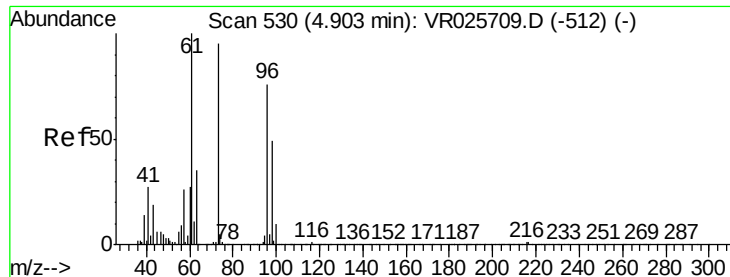
Tot Ion: 43 Resp: 26192
Ion Ratio Lower Upper
43 100
74 15.0 24.2 36.4#



#16
Methylene chloride
Concen: 3.87 ug/L
RT: 4.41 min Scan# 449
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Tgt Ion: 84 Resp: 162951
Ion Ratio Lower Upper
84 100
86 73.1 46.5 86.3
49 103.7 77.4 143.8

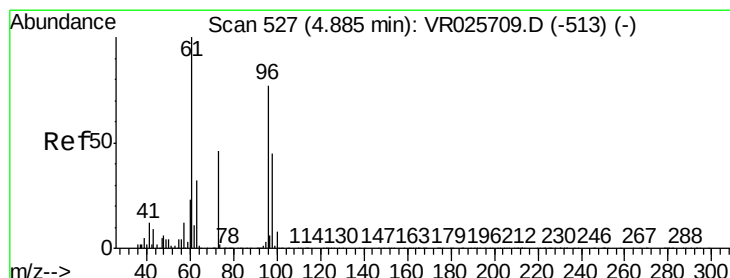
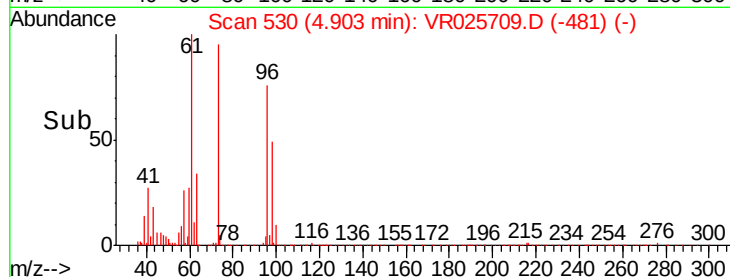
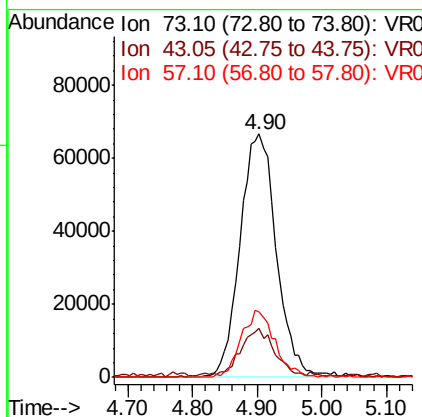
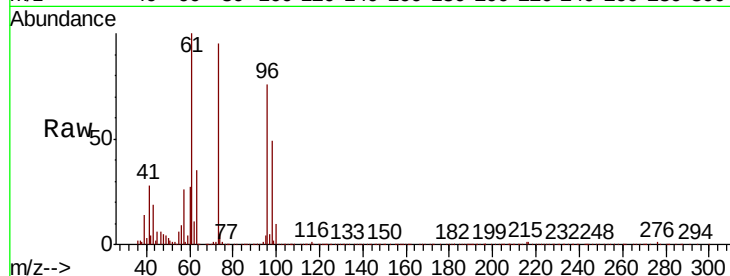




#17
Methyl tert-butyl Ether
Concen: 4.43 ug/L
RT: 4.90 min Scan# 530
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

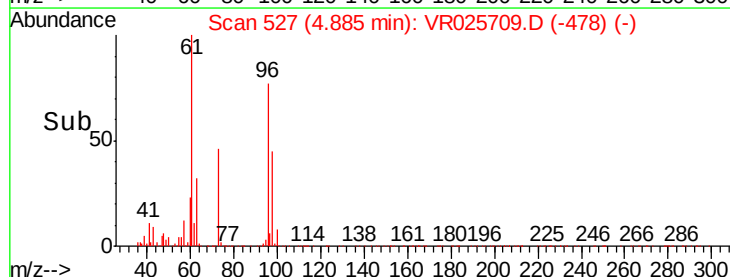
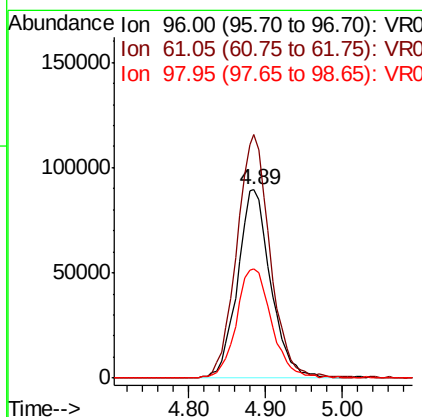
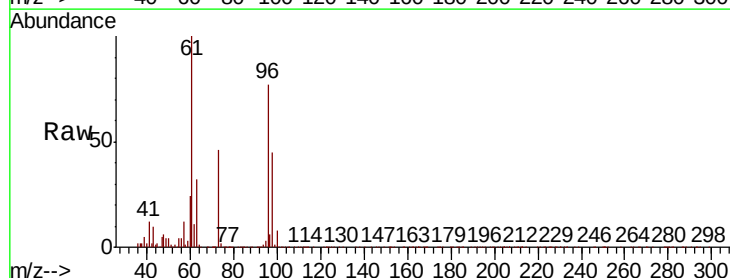
Instrument :
MSVOA_R
ClientSampleId :
VSTD00501

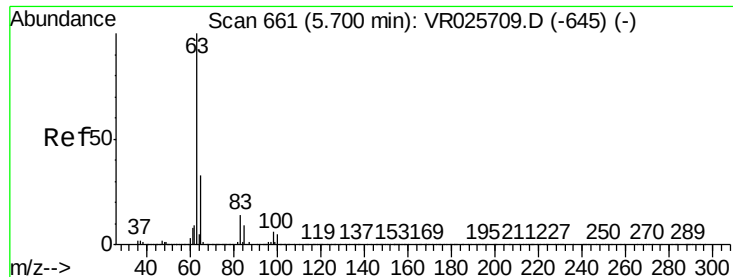
Tot Ion	Ratio	Lower	Upper
73	100		
43	17.8	15.1	22.7
57	25.3	19.5	29.3



#18
trans-1,2-Dichloroethene
Concen: 4.63 ug/L
RT: 4.89 min Scan# 527
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.2	91.3	169.6
98	57.7	43.2	80.2

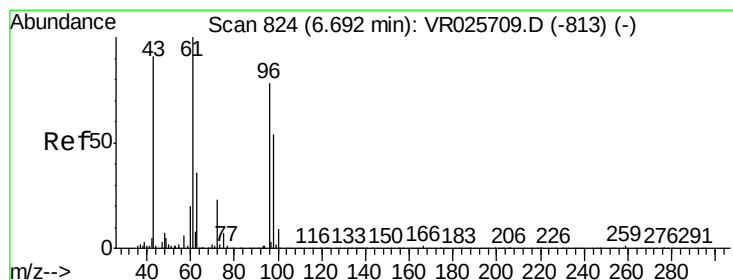
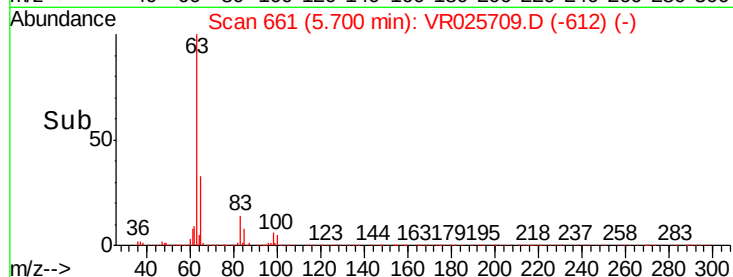
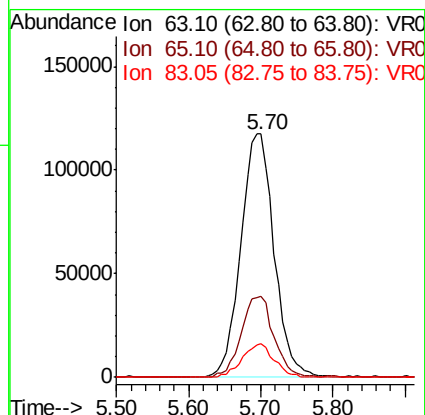
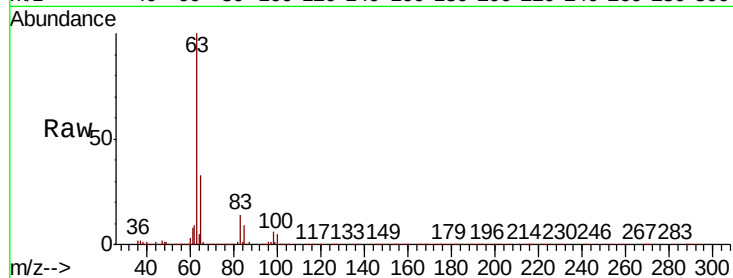




#19
 1,1-Dichloroethane
 Concen: 4.18 ug/L
 RT: 5.70 min Scan# 661
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

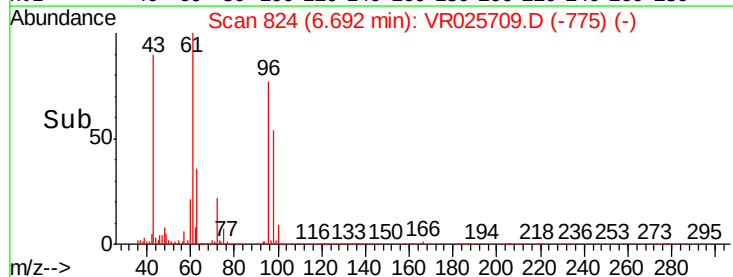
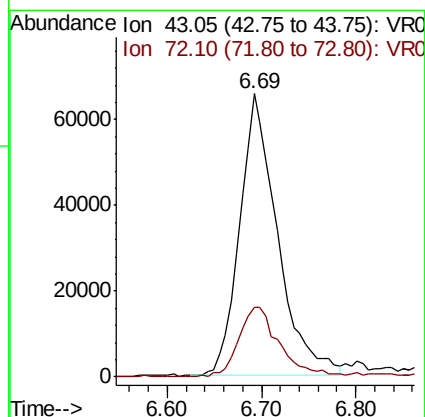
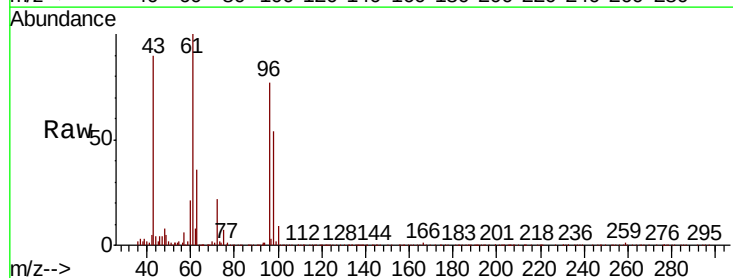
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

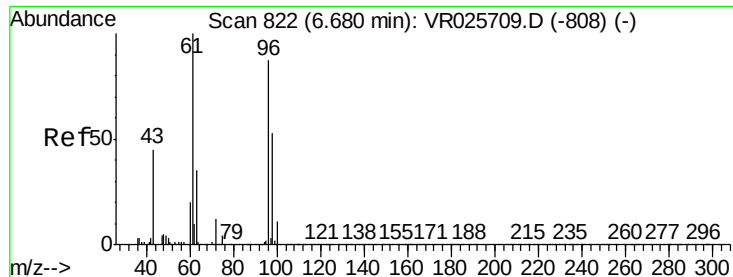
Tot Ion: 63 Resp: 374753
 Ion Ratio Lower Upper
 63 100
 65 33.2 21.9 40.7
 83 13.7 7.6 14.2



#21
 2-Butanone
 Concen: 40.31 ug/L
 RT: 6.69 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion: 43 Resp: 183391
 Ion Ratio Lower Upper
 43 100
 72 25.9 13.3 39.9



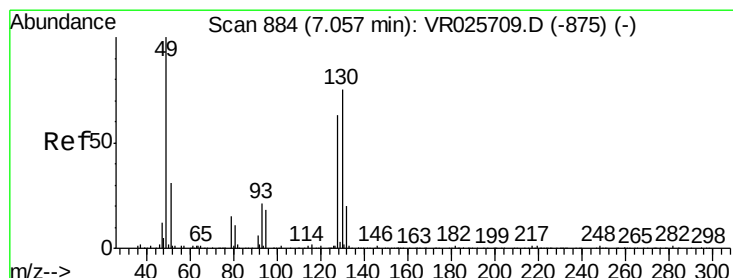
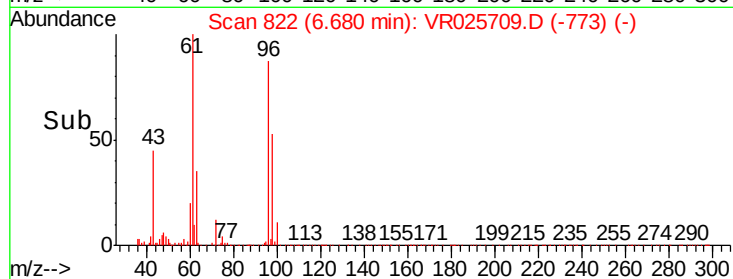
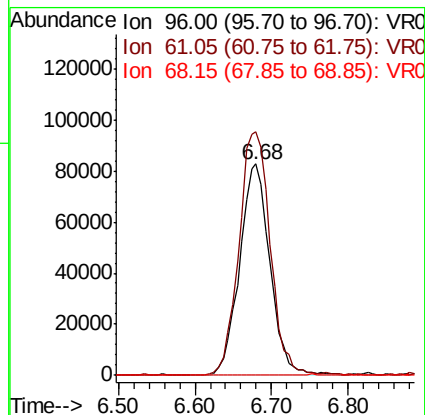
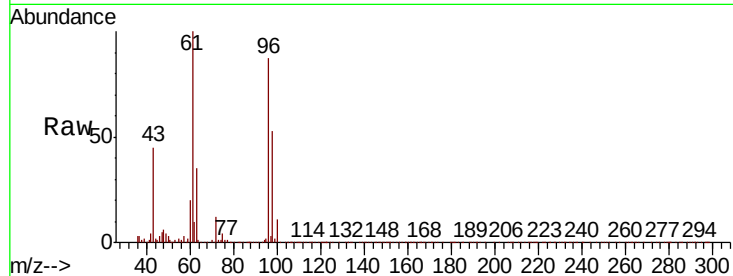


#22

cis-1,2-Dichloroethene
Concen: 4.49 ug/L
RT: 6.68 min Scan# 822
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Instrument :
MSVOA_R
ClientSampleId :
VSTD00501

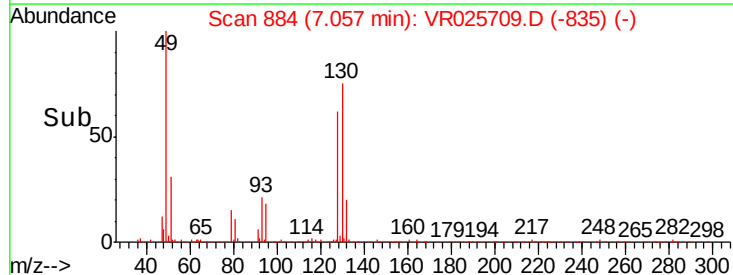
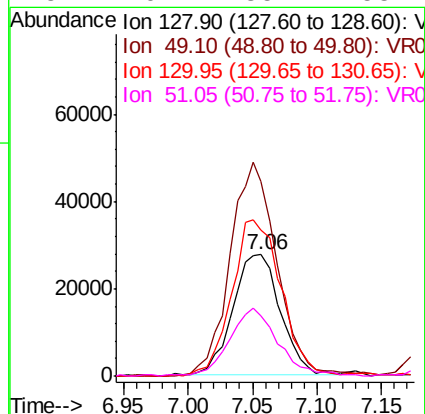
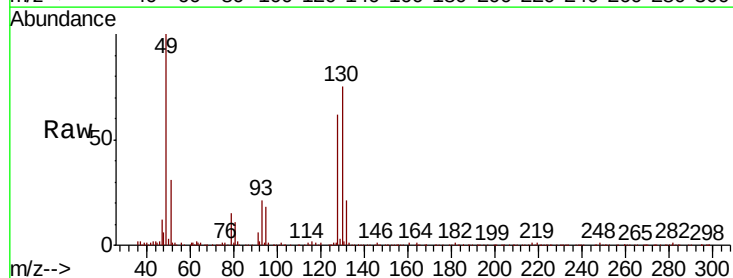
Tot Ion: 96 Resp: 227000
Ion Ratio Lower Upper
96 100
61 115.4 79.9 148.5
68 0.0 0.2 0.4#

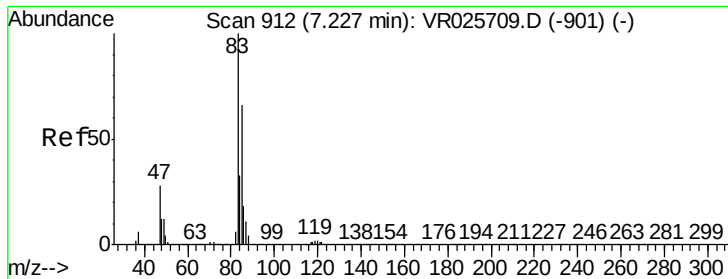


#23

Bromochloromethane
Concen: 4.10 ug/L
RT: 7.06 min Scan# 884
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Tgt Ion:128 Resp: 71047
Ion Ratio Lower Upper
128 100
49 160.3 104.6 194.2
130 120.9 84.7 157.3
51 49.4 35.4 53.2

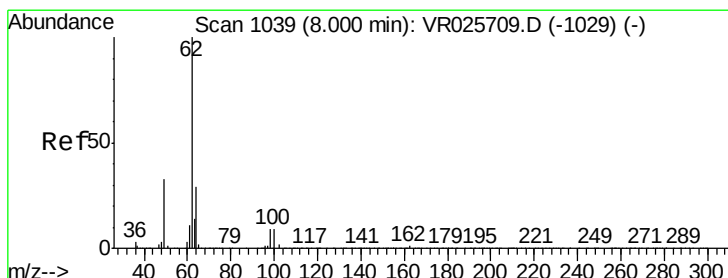
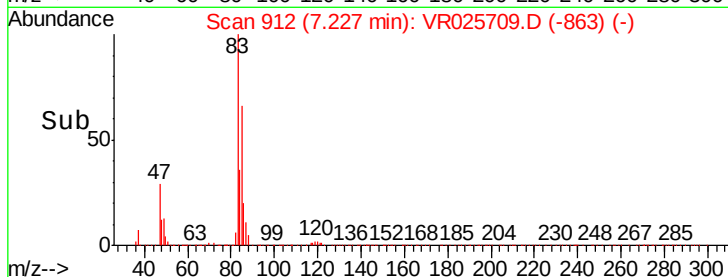
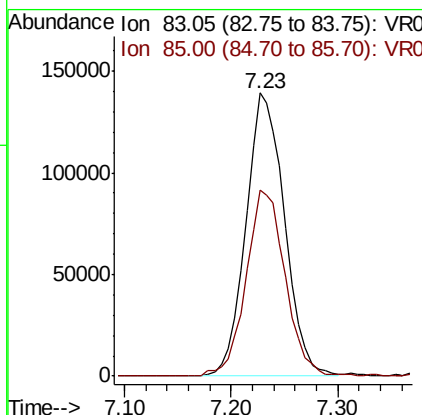
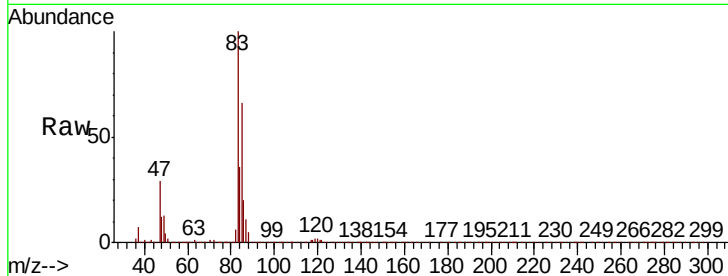




#25
Chloroform
Concen: 4.31 ug/L
RT: 7.23 min Scan# 912
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

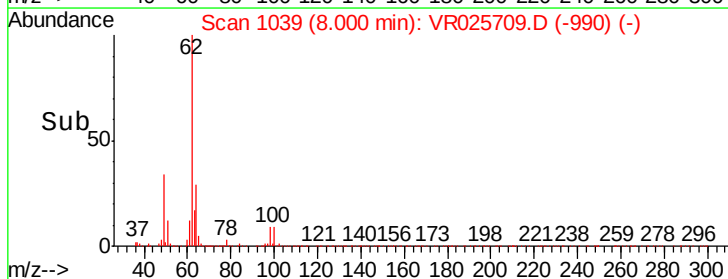
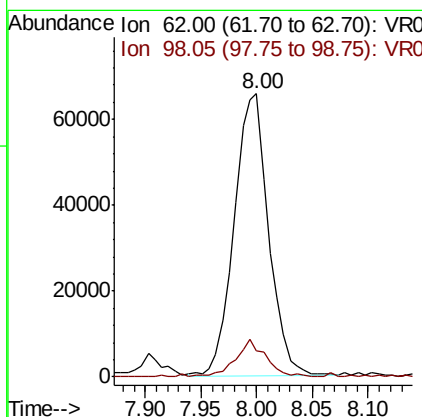
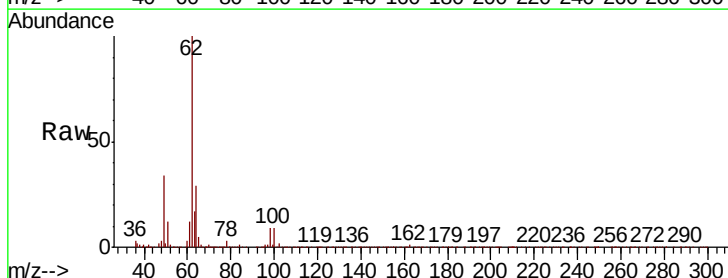
Instrument :
MSVOA_R
ClientSampleId :
VSTD00501

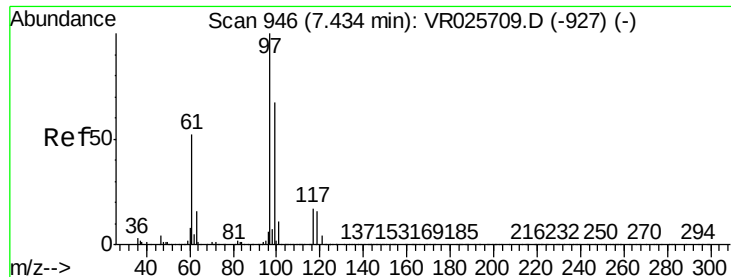
Tot Ion: 83 Resp: 352744
Ion Ratio Lower Upper
83 100
85 65.7 43.8 81.4



#27
1,2-Dichloroethane
Concen: 4.34 ug/L
RT: 8.00 min Scan# 1039
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Tgt Ion: 62 Resp: 140268
Ion Ratio Lower Upper
62 100
98 9.2 9.4 14.2#





#29

1,1,1-Trichloroethane

Concen: 4.32 ug/L

RT: 7.43 min Scan# 946

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

VSTD00501

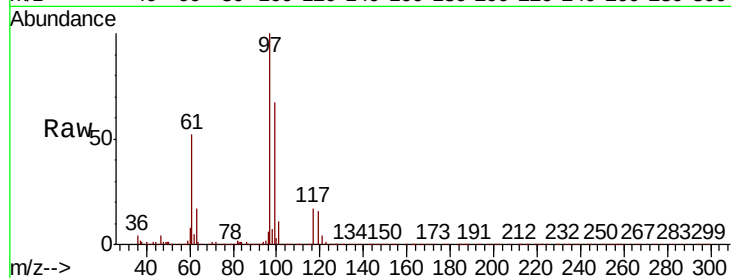
Tot Ion: 97 Resp: 274225

Ion Ratio Lower Upper

97 100

99 64.8 51.3 76.9

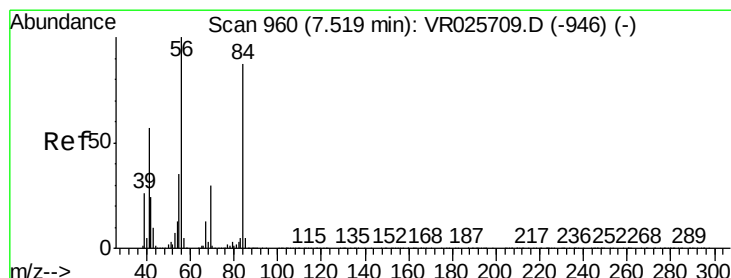
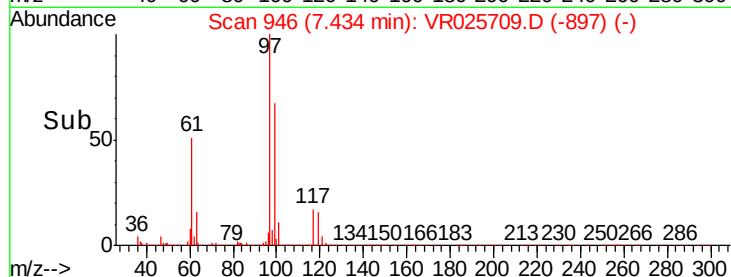
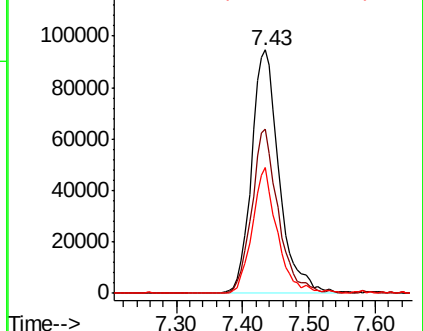
61 46.8 36.2 54.4



Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 61.05 (60.75 to 61.75): VR0



#30

Cyclohexane

Concen: 4.68 ug/L

RT: 7.52 min Scan# 960

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

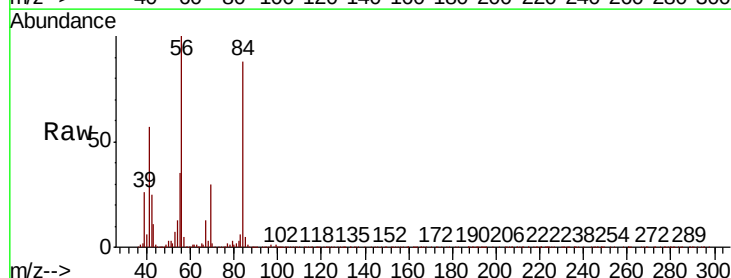
Tgt Ion: 56 Resp: 356957

Ion Ratio Lower Upper

56 100

69 30.5 23.4 35.2

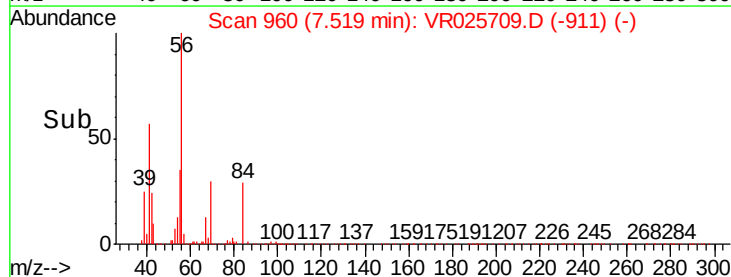
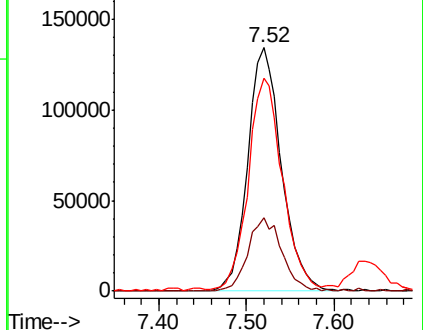
84 87.9 70.4 105.6

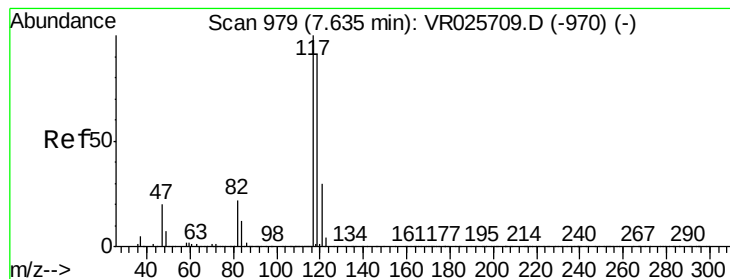


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 4.59 ug/L

RT: 7.63 min Scan# 979

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

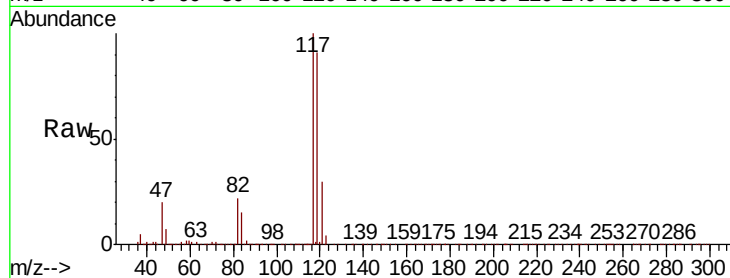
VSTD00501

Tot Ion:117 Resp: 282132

Ion Ratio Lower Upper

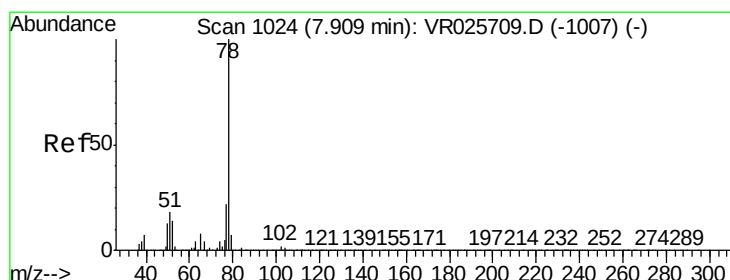
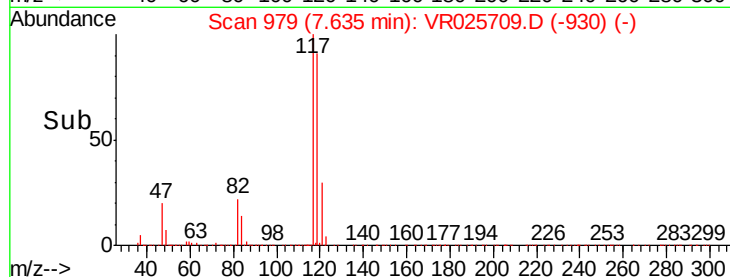
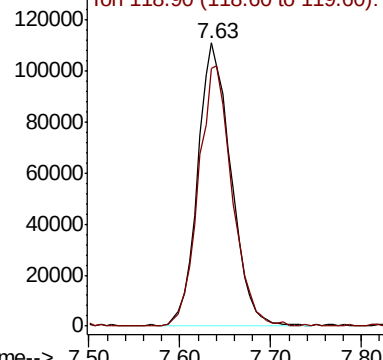
117 100

119 93.1 78.9 118.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.44 ug/L

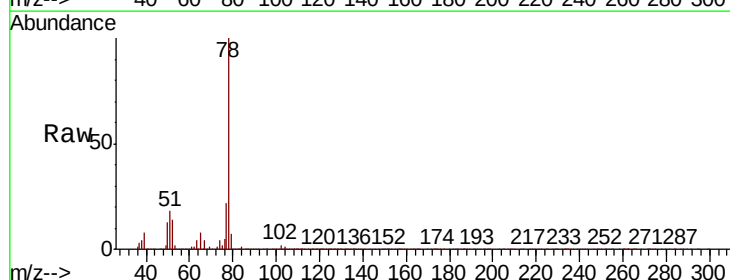
RT: 7.91 min Scan# 1024

Delta R.T. 0.00 min

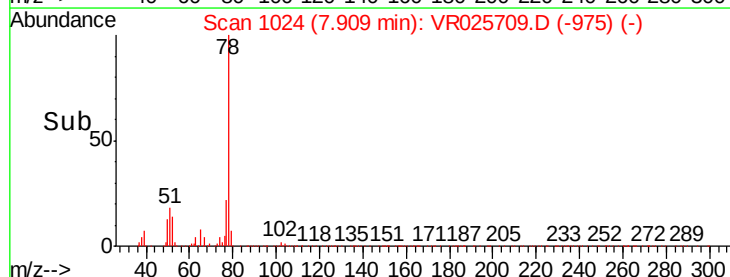
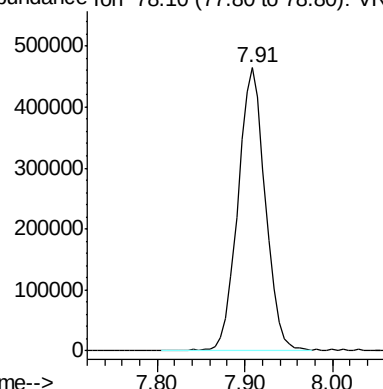
Lab File: VR025709.D

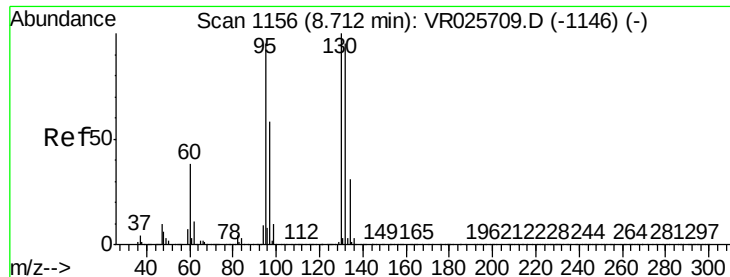
Acq: 13 Sep 2018 11:23

Tgt Ion: 78 Resp: 1006953



Abundance Ion 78.10 (77.80 to 78.80): VR0





#34

Trichloroethene

Concen: 4.23 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

VSTD00501

Tot Ion: 95 Resp: 232514

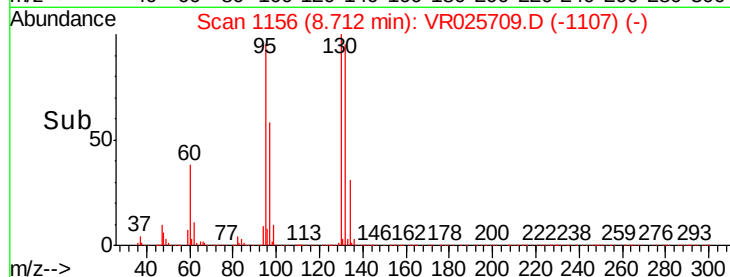
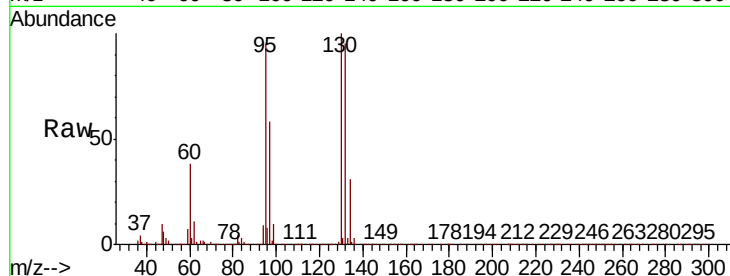
Ion Ratio Lower Upper

95 100

97 61.0 45.5 84.5

132 99.7 71.0 131.9

130 105.4 74.5 138.3



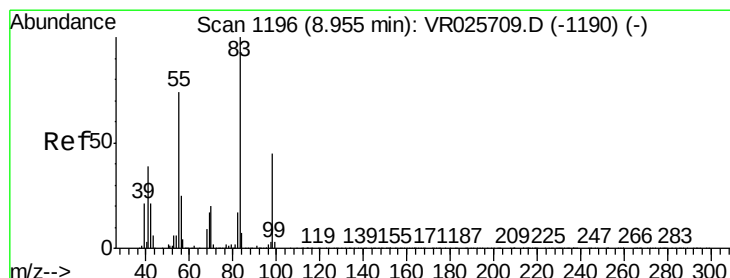
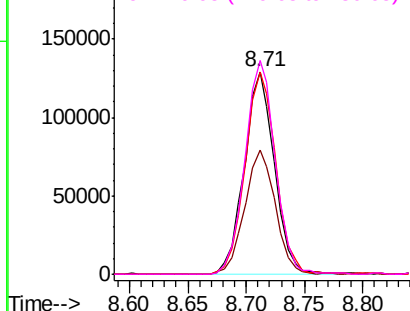
Abundance

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: 4.94 ug/L

RT: 8.95 min Scan# 1196

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

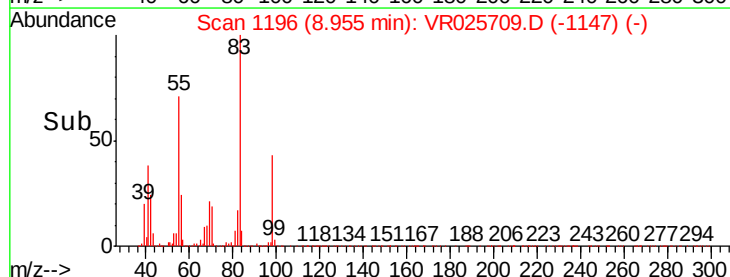
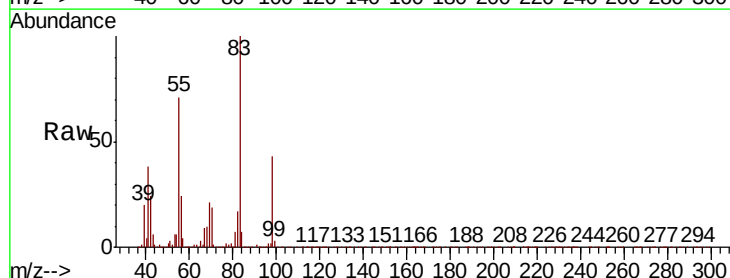
Tgt Ion: 83 Resp: 419510

Ion Ratio Lower Upper

83 100

55 72.6 58.9 88.3

98 45.5 36.9 55.3

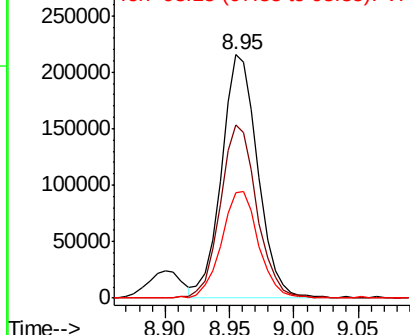


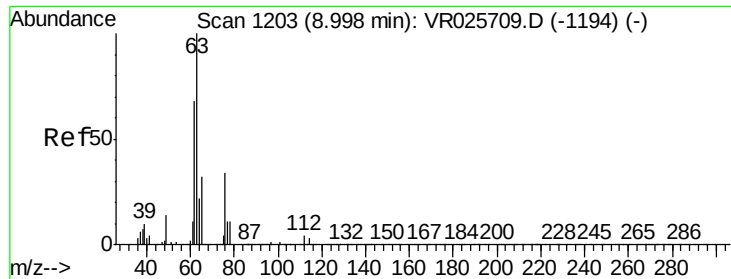
Abundance

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

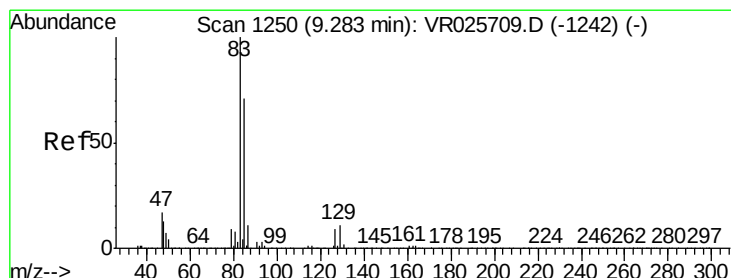
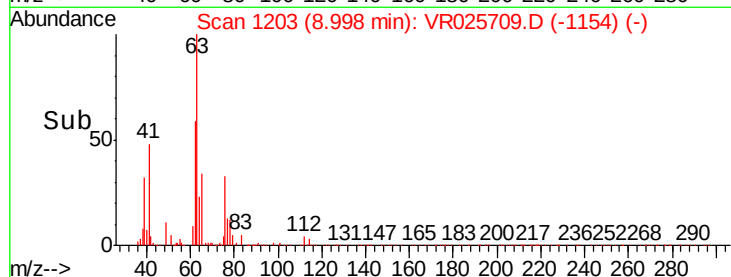
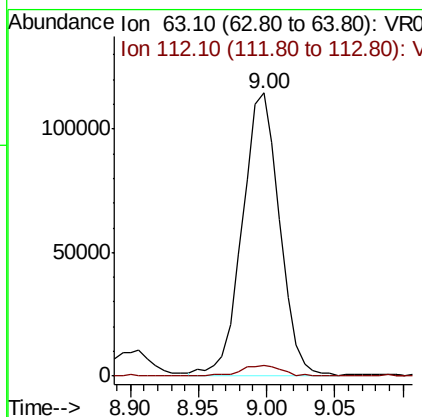
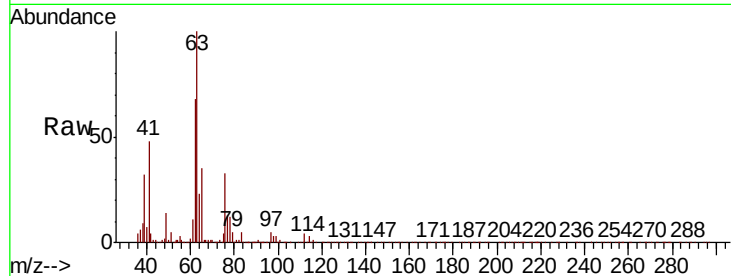




#37
 1,2-Dichloropropane
 Concen: 4.27 ug/L
 RT: 9.00 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

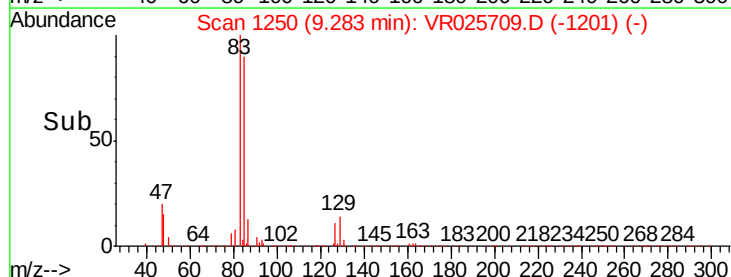
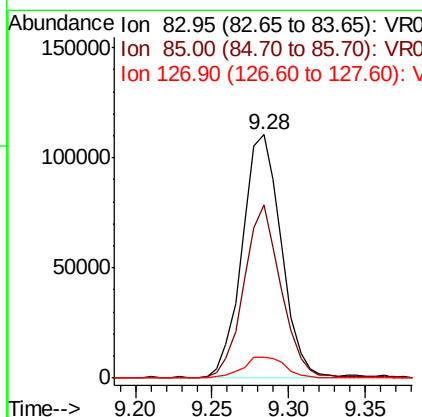
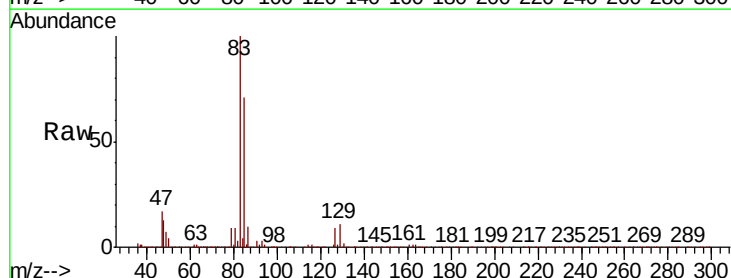
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

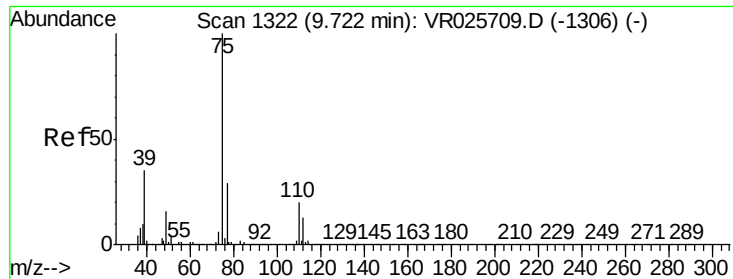
Tot Ion: 63 Resp: 218508
 Ion Ratio Lower Upper
 63 100
 112 4.4 2.9 4.3#



#38
 Bromodichloromethane
 Concen: 4.26 ug/L
 RT: 9.28 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion: 83 Resp: 195925
 Ion Ratio Lower Upper
 83 100
 85 70.9 48.7 90.5
 127 8.6 7.5 11.3

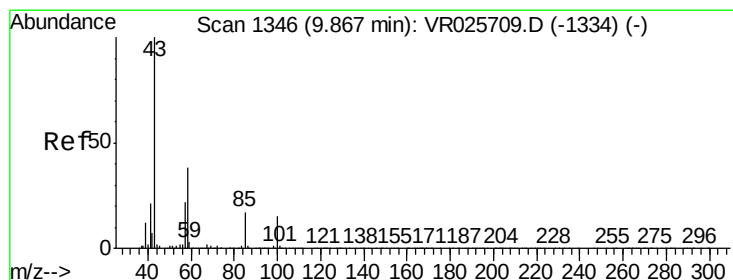
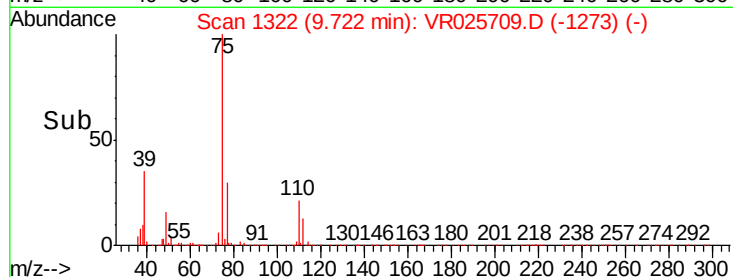
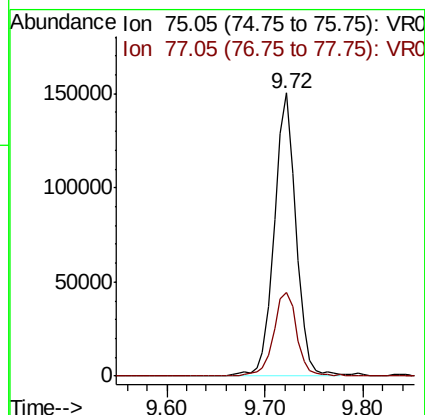
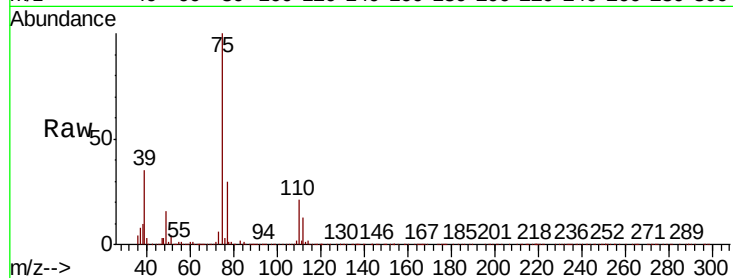




#39
 cis-1,3-Dichloropropene
 Concen: 4.45 ug/L
 RT: 9.72 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

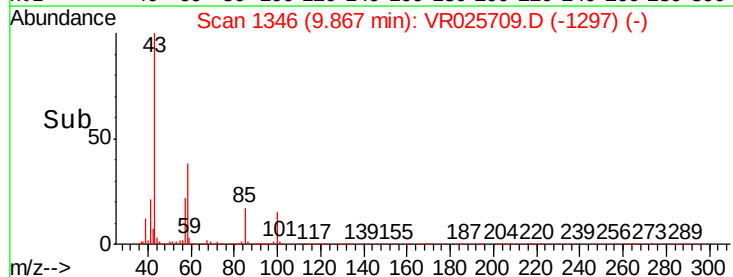
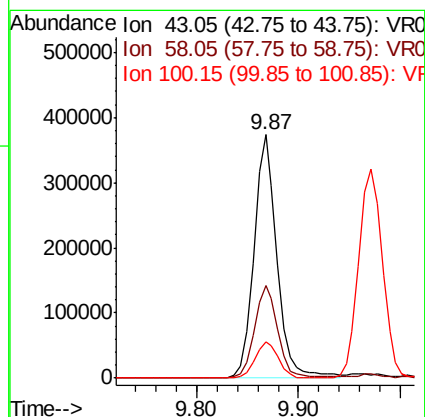
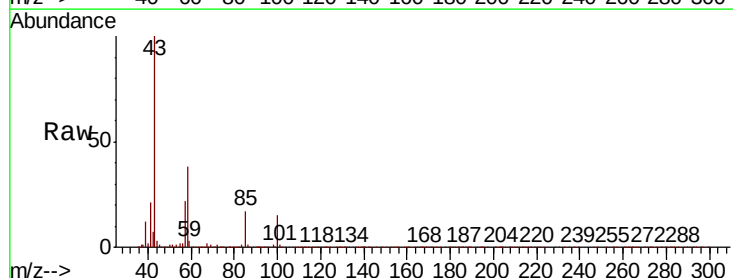
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

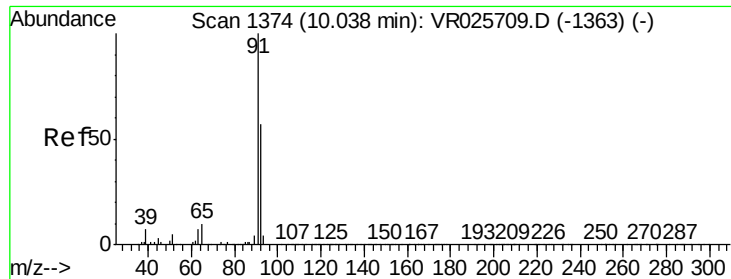
Tot Ion: 75 Resp: 232744
 Ion Ratio Lower Upper
 75 100
 77 29.7 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 46.42 ug/L
 RT: 9.87 min Scan# 1346
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion: 43 Resp: 587099
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.6 46.0
 100 15.3 11.7 17.5





#42

Toluene

Concen: 4.73 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

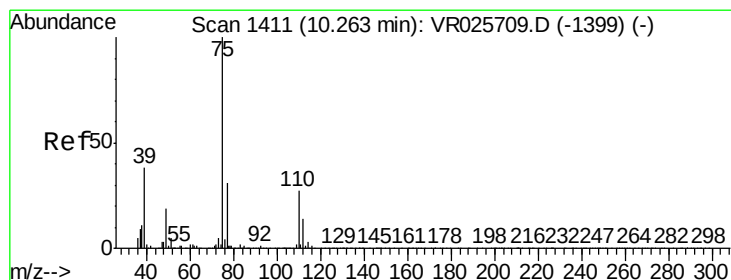
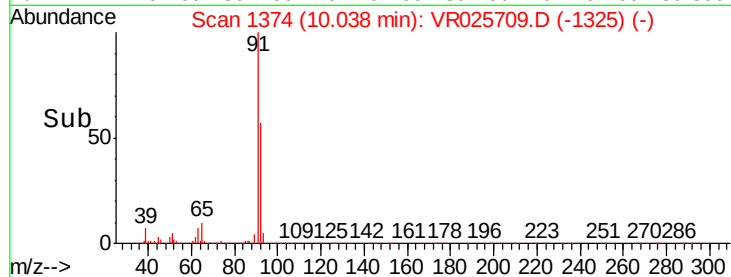
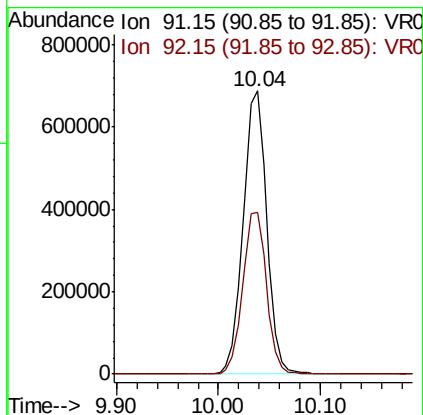
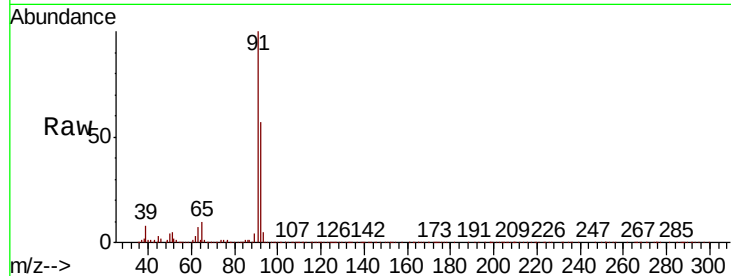
VSTD00501

Tot Ion: 91 Resp: 1098232

Ion Ratio Lower Upper

91 100

92 57.3 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 4.61 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR025709.D

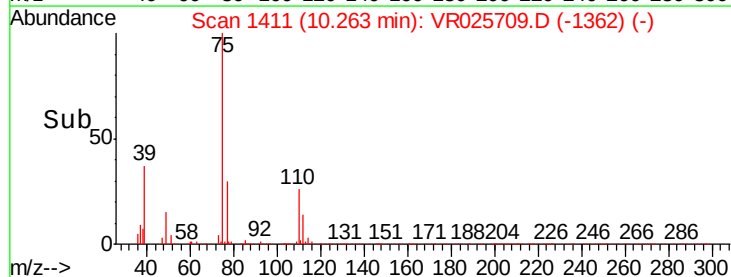
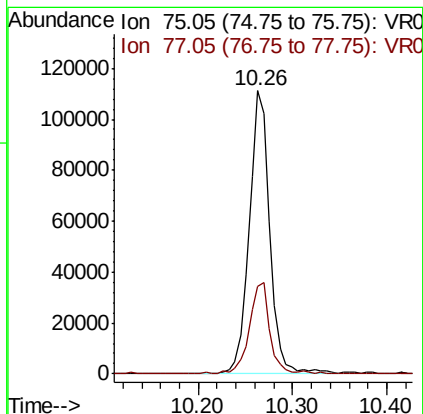
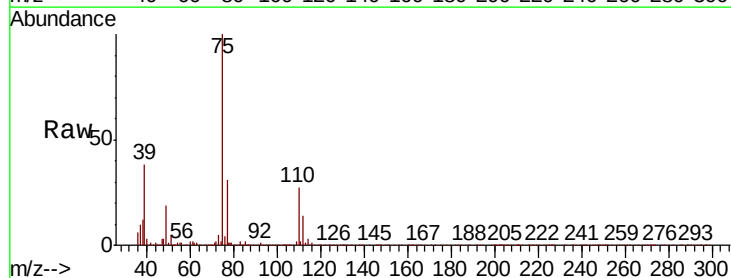
Acq: 13 Sep 2018 11:23

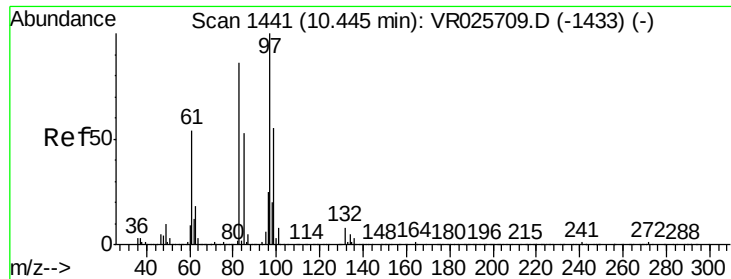
Tgt Ion: 75 Resp: 169670

Ion Ratio Lower Upper

75 100

77 30.9 20.7 38.5

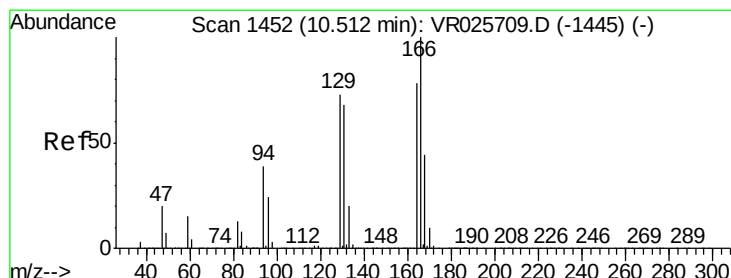
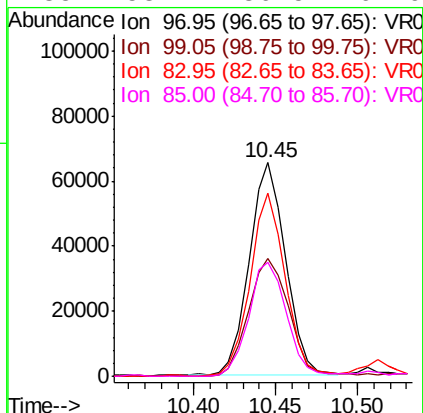
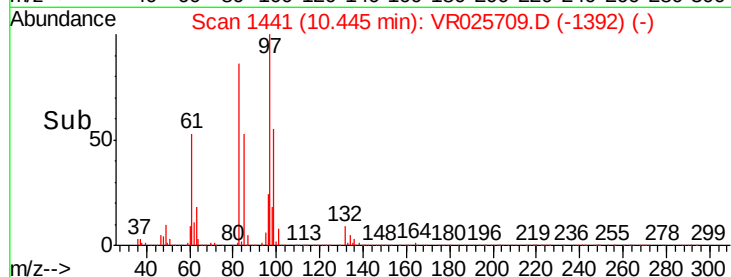
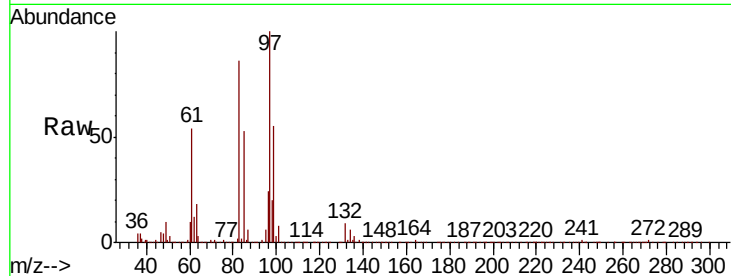




#45
 1,1,2-Trichloroethane
 Concen: 4.21 ug/L
 RT: 10.45 min Scan# 1441
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

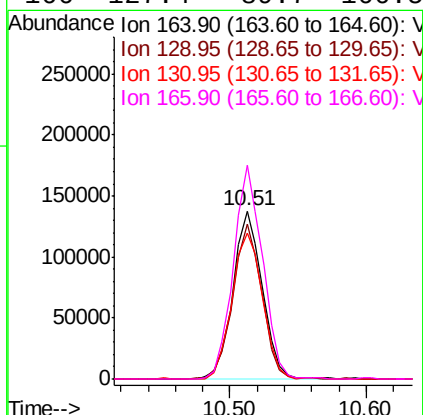
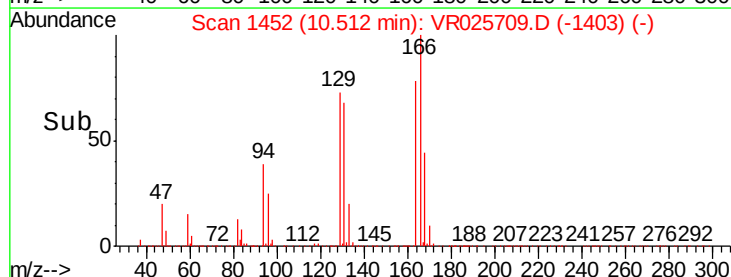
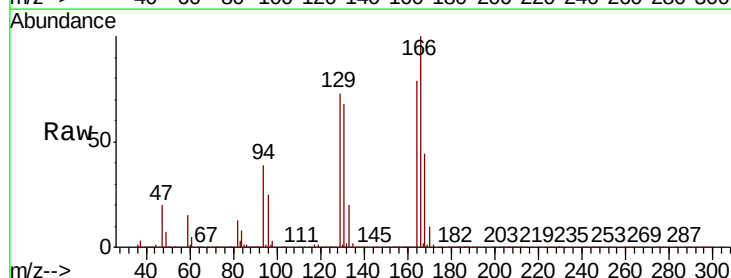
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

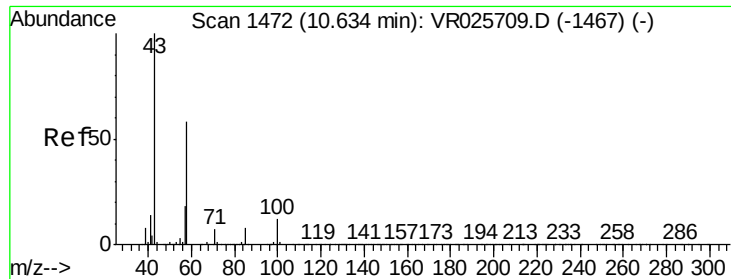
Tot Ion:	97	Resp:	100893
Ion	Ratio	Lower	Upper
97	100		
99	54.9	41.3	76.7
83	85.7	55.4	102.8
85	53.1	36.5	67.9



#47
 Tetrachloroethene
 Concen: 4.55 ug/L
 RT: 10.51 min Scan# 1452
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion:	164	Resp:	204830
Ion	Ratio	Lower	Upper
164	100		
129	92.5	65.6	121.8
131	87.0	62.2	115.4
166	127.4	89.7	166.5

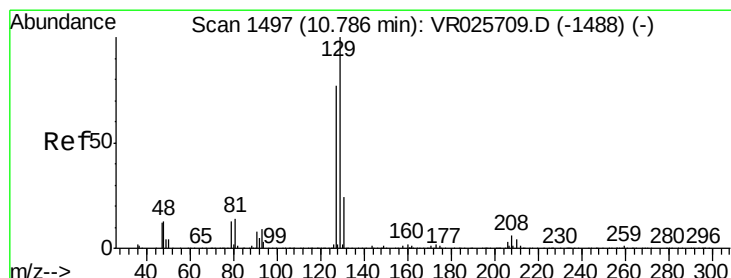
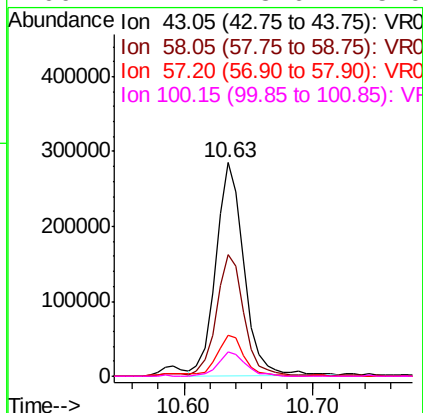
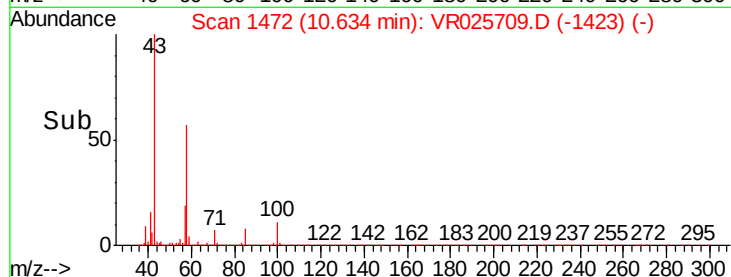
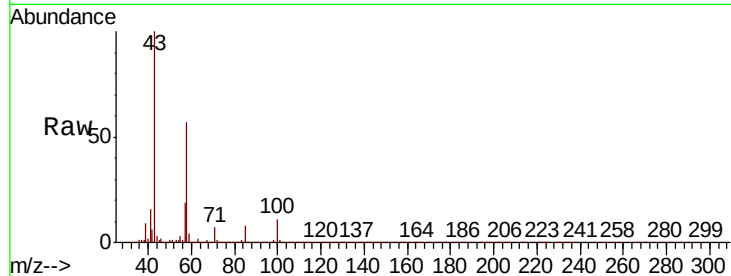




#48
2-Hexanone
Concen: 48.78 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

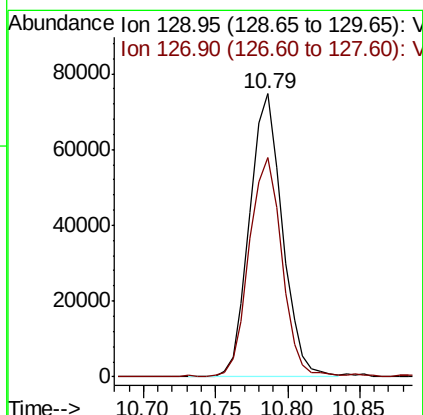
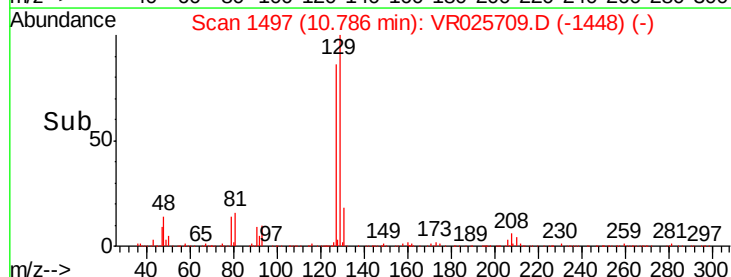
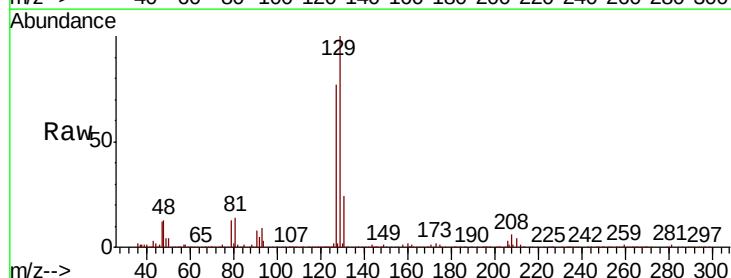
Instrument :
MSVOA_R
ClientSampleId :
VSTD00501

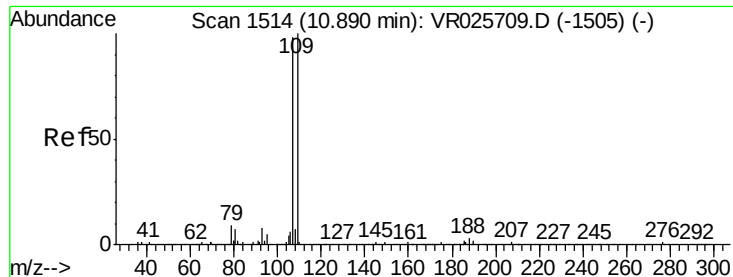
Tot Ion:	43	Resp:	432726
Ion	Ratio	Lower	Upper
43	100		
58	58.0	45.8	68.8
57	17.8	14.2	21.2
100	11.1	8.6	13.0



#49
Dibromochloromethane
Concen: 4.56 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Tgt Ion:	129	Resp:	116530
Ion	Ratio	Lower	Upper
129	100		
127	77.5	54.1	100.5

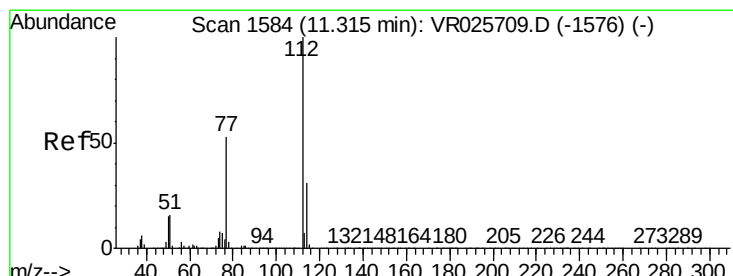
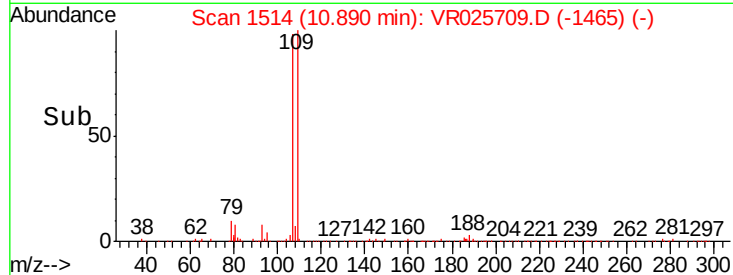
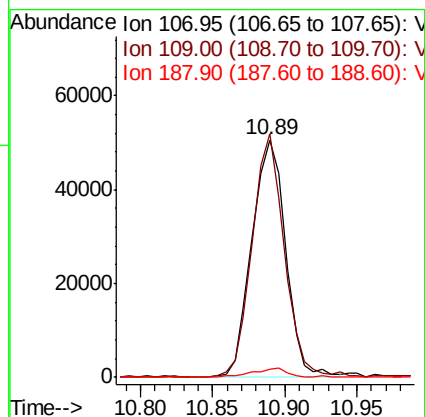
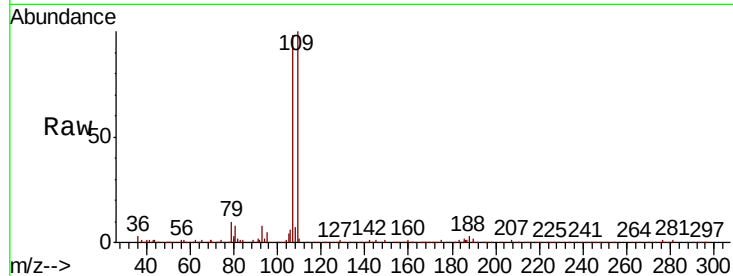




#50
 1,2-Dibromoethane
 Concen: 4.31 ug/L
 RT: 10.89 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

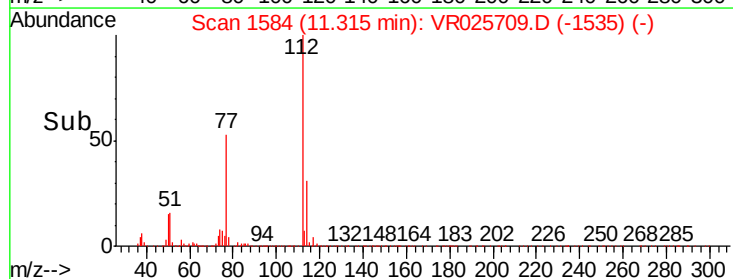
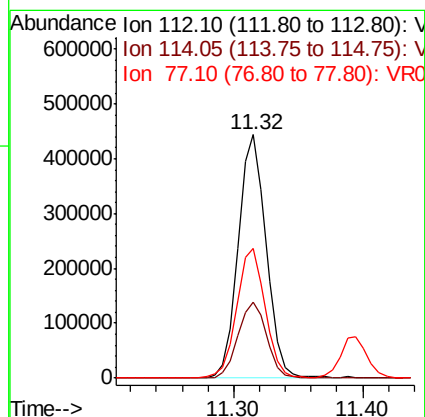
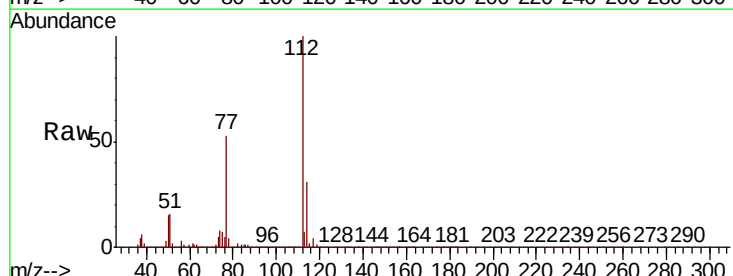
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

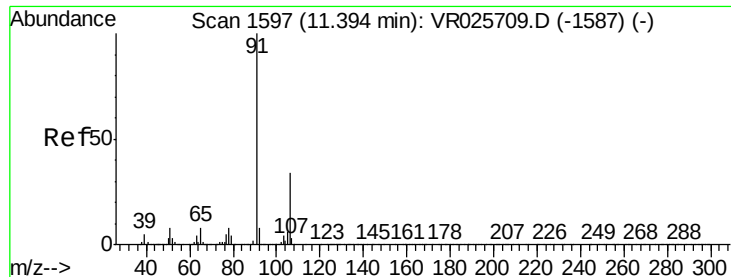
Tot Ion:	107	Resp:	82132
Ion	Ratio	Lower	Upper
107	100		
109	102.4	71.3	132.5
188	3.6	3.4	5.0



#51
 Chlorobenzene
 Concen: 4.56 ug/L
 RT: 11.32 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion:	112	Resp:	666663
Ion	Ratio	Lower	Upper
112	100		
114	30.9	21.8	40.6
77	53.4	42.4	63.6





#52

Ethylbenzene

Concen: 4.92 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampleId :

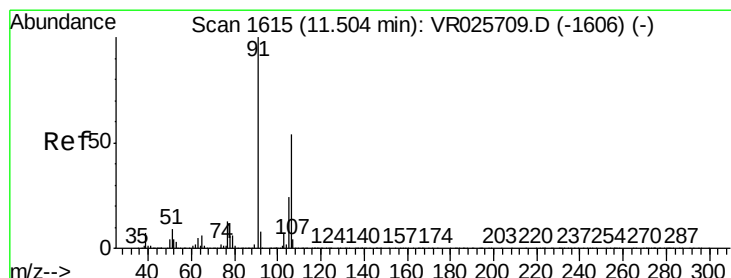
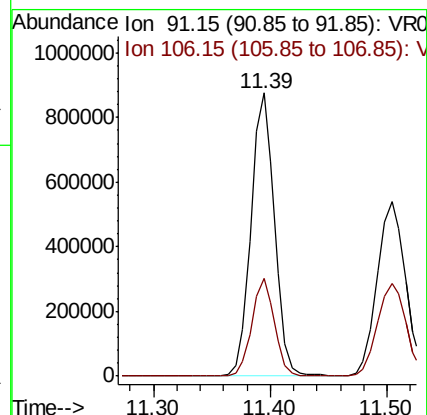
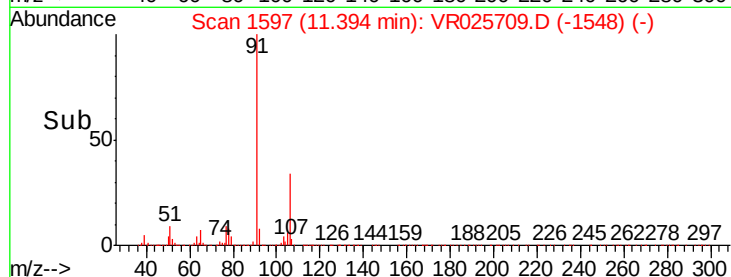
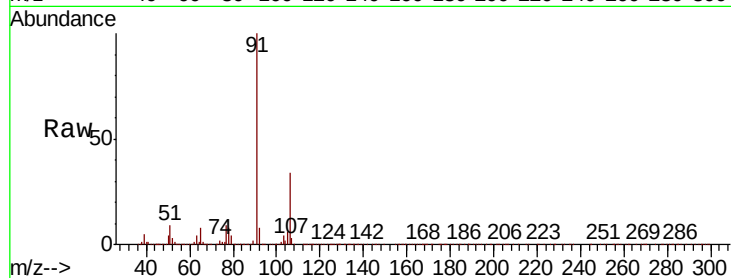
VSTD00501

Tot Ion: 91 Resp: 1230552

Ion Ratio Lower Upper

91 100

106 34.5 22.7 42.3



#53

m,p-Xylene

Concen: 4.88 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VR025709.D

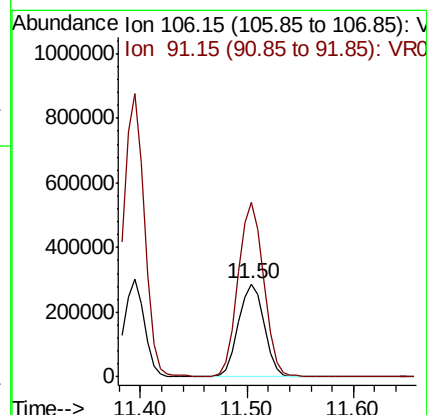
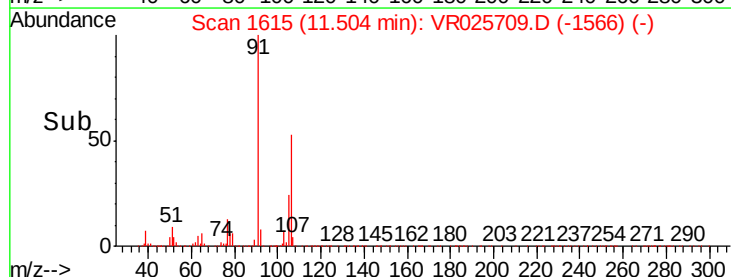
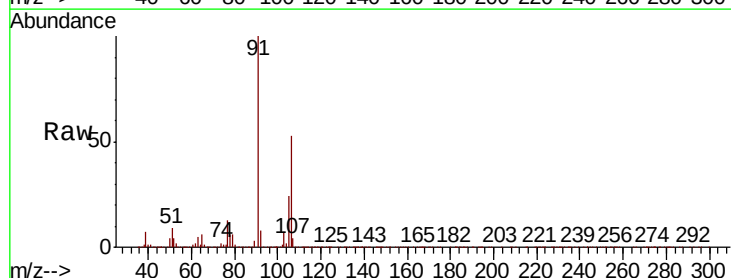
Acq: 13 Sep 2018 11:23

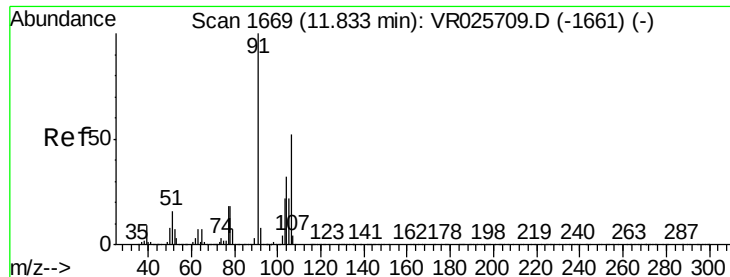
Tgt Ion: 106 Resp: 491861

Ion Ratio Lower Upper

106 100

91 187.6 128.7 238.9

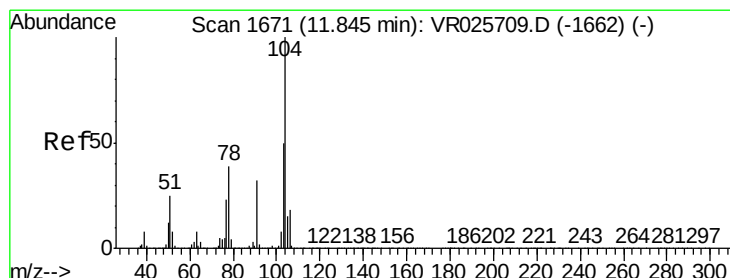
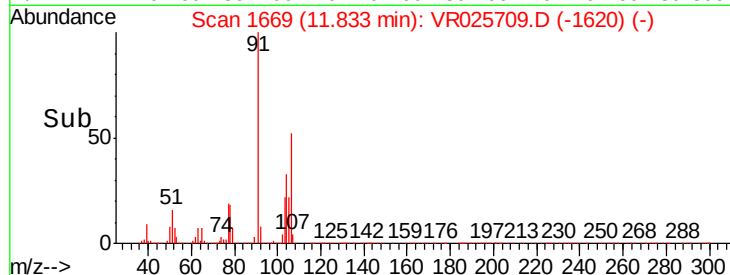
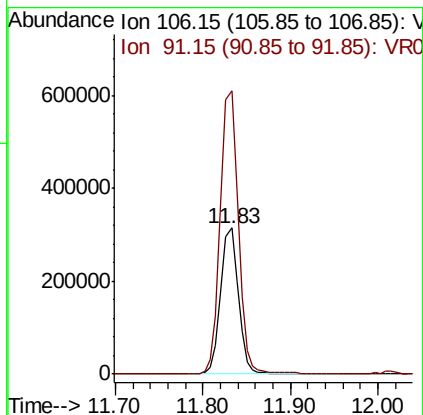
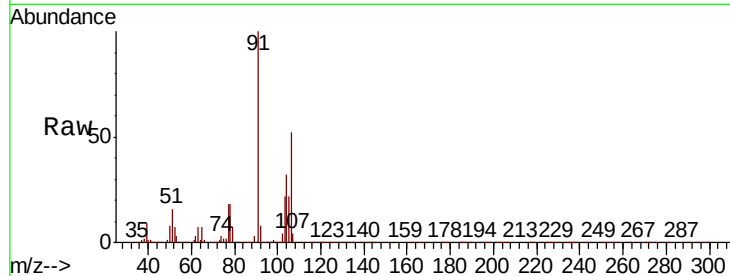




#54
o-Xylene
Concen: 4.98 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

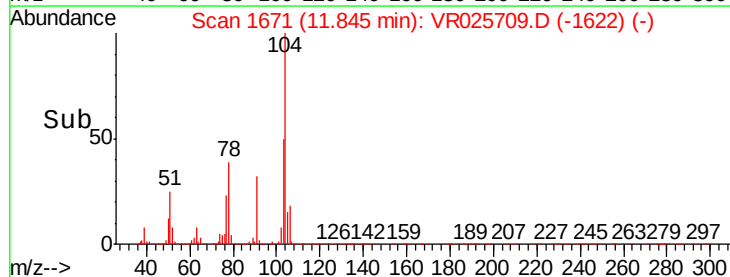
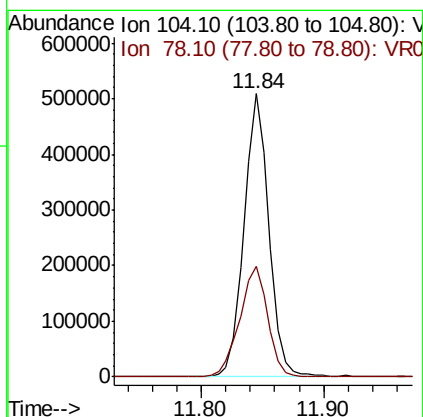
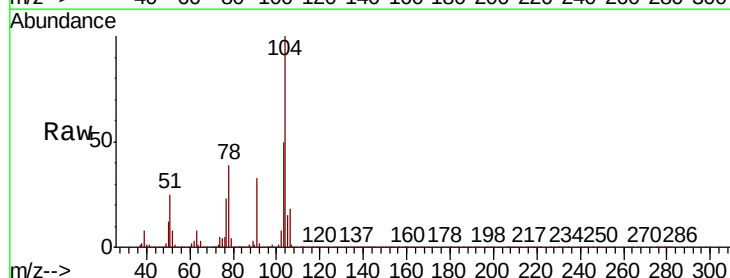
Instrument :
MSVOA_R
ClientSampled :
VSTD00501

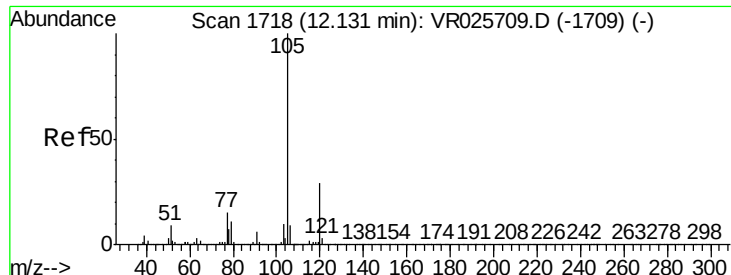
Tot Ion:106 Resp: 442224
Ion Ratio Lower Upper
106 100
91 193.8 139.2 258.6



#55
Styrene
Concen: 5.00 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR025709.D
Acq: 13 Sep 2018 11:23

Tgt Ion:104 Resp: 713873
Ion Ratio Lower Upper
104 100
78 38.9 27.6 51.2





#56

Isopropylbenzene

Concen: 5.31 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

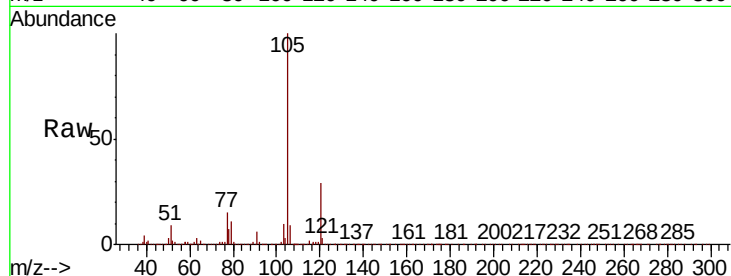
MSVOA_R

ClientSampleId :

VSTD00501

Tot Ion:105 Resp: 1173537

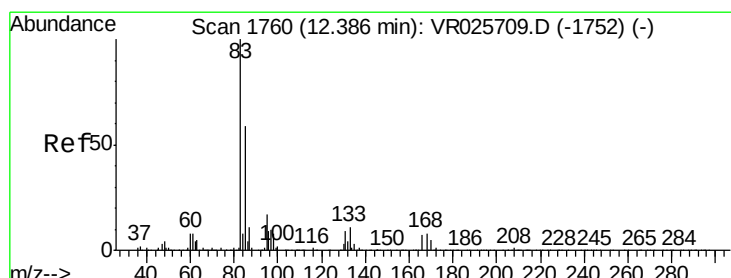
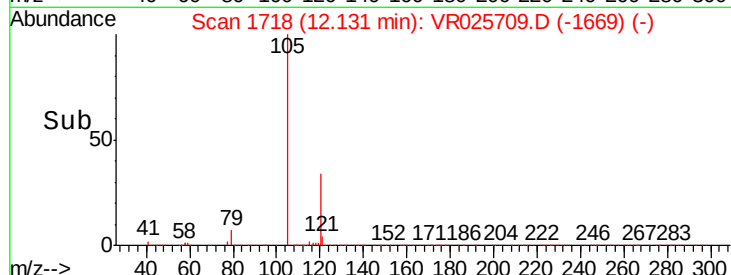
Ion	Ratio	Lower	Upper
105	100		
120	28.2	22.8	34.2
77	14.5	11.8	17.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VR0



#58

1,1,2,2-Tetrachloroethane

Concen: 4.62 ug/L

RT: 12.39 min Scan# 1760

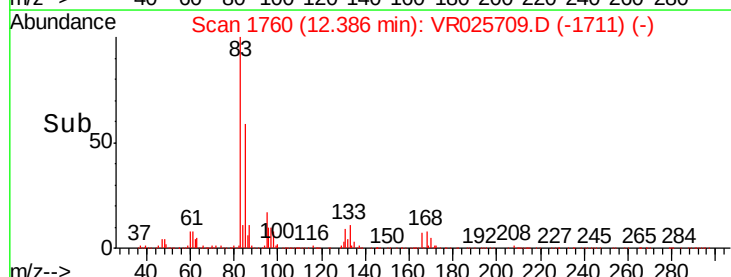
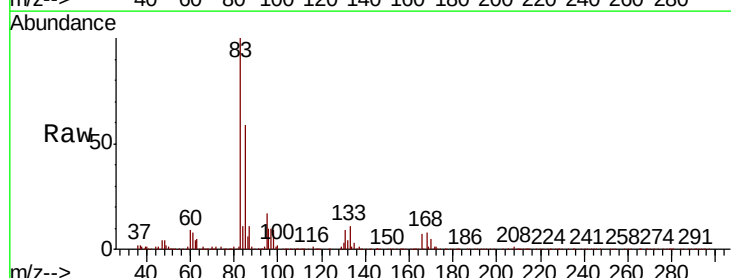
Delta R.T. 0.00 min

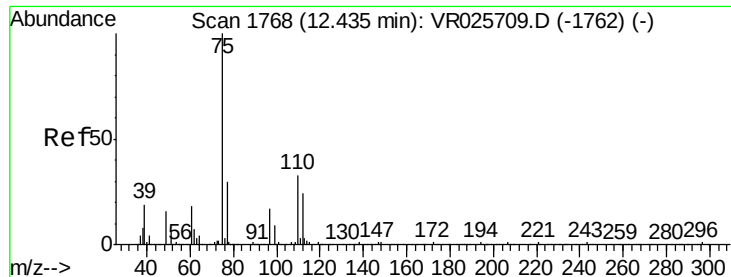
Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Tgt Ion: 83 Resp: 107752

Ion	Ratio	Lower	Upper
83	100		
85	59.2	47.9	88.9
131	9.3	8.2	12.4





#59

1,2,3-Trichloropropane

Concen: 4.36 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampled :

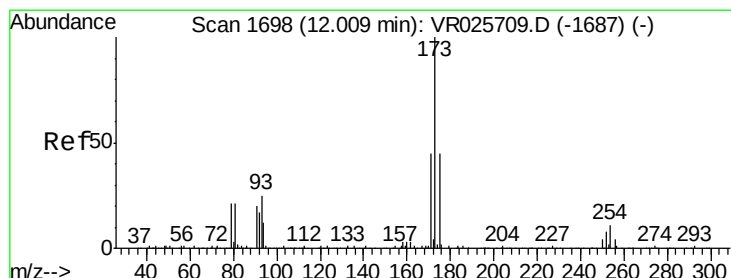
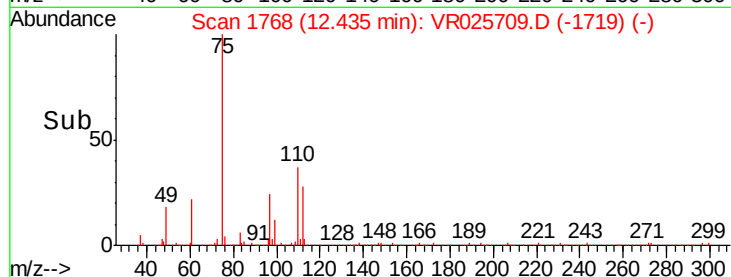
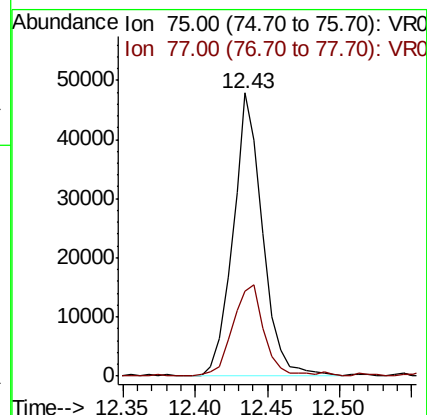
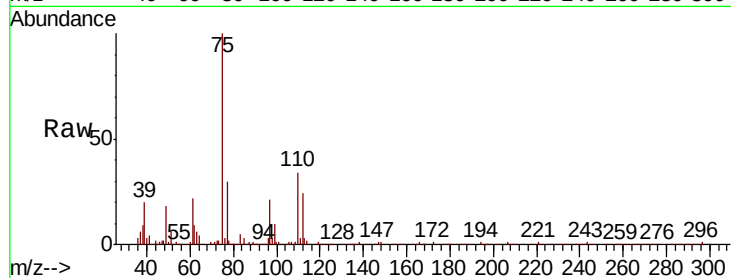
VSTD00501

Tot Ion: 75 Resp: 68529

Ion Ratio Lower Upper

75 100

77 33.4 27.8 41.8



#61

Bromoform

Concen: 4.02 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

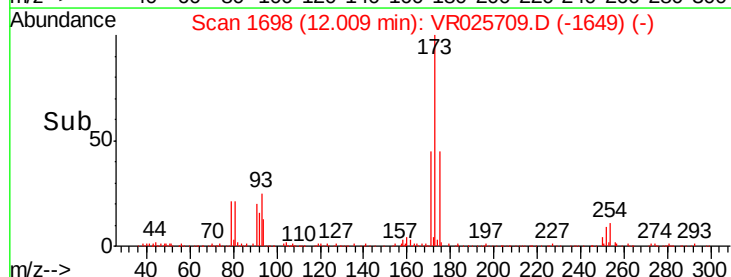
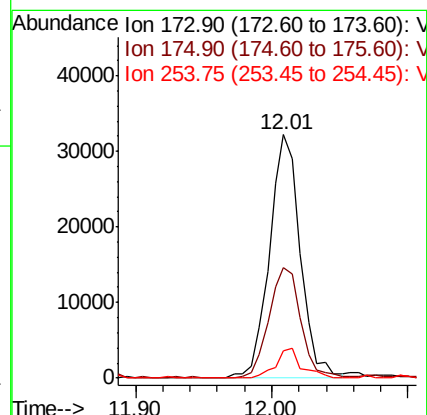
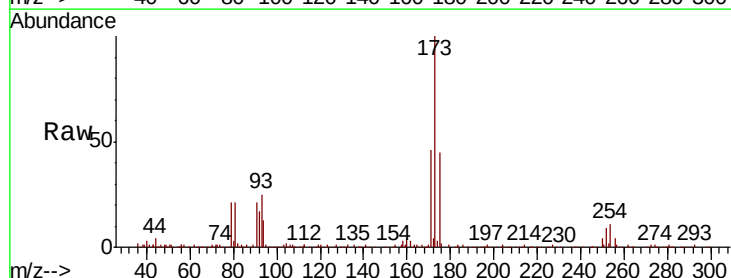
Tgt Ion: 173 Resp: 50892

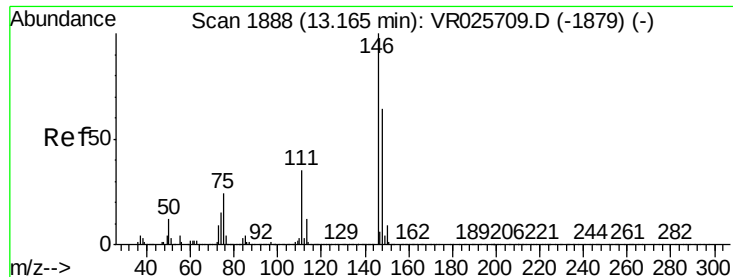
Ion Ratio Lower Upper

173 100

175 47.4 41.9 62.9

254 10.4 7.3 10.9

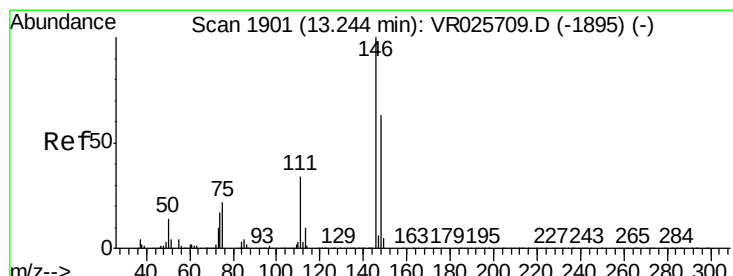
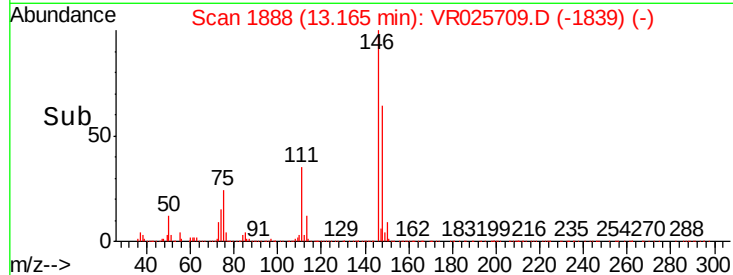
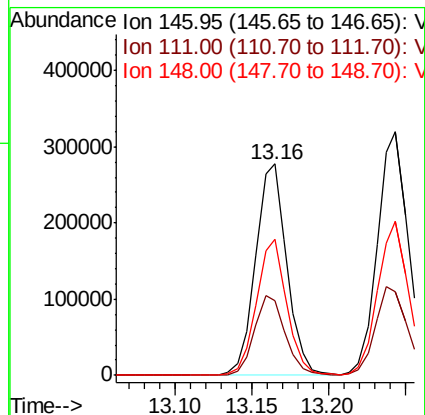
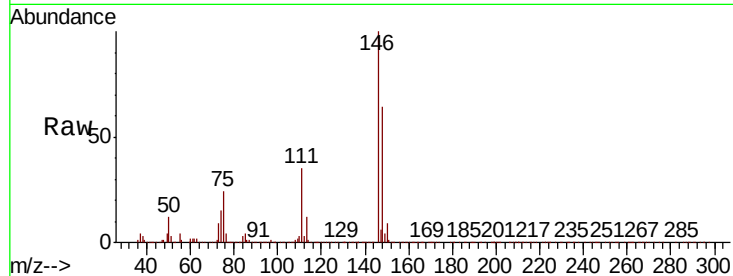




#62
 1,3-Dichlorobenzene
 Concen: 4.26 ug/L
 RT: 13.16 min Scan# 1888
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

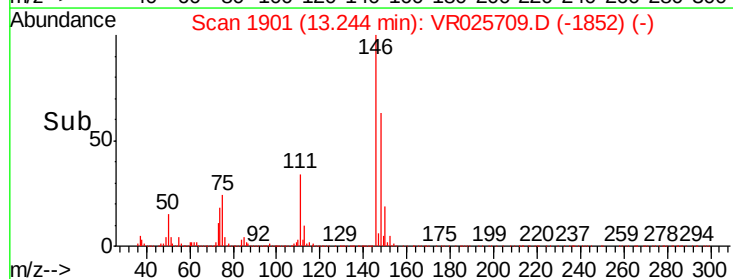
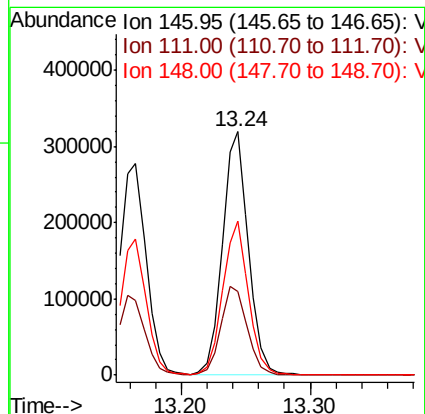
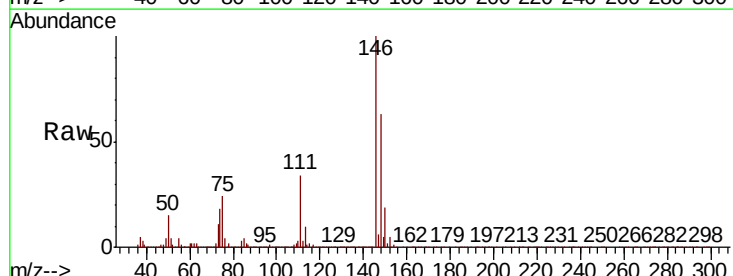
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

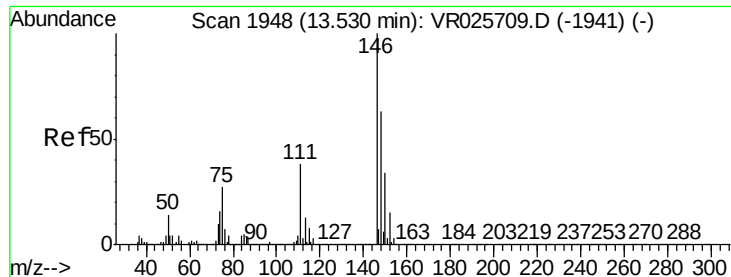
Tot Ion:146 Resp: 393785
 Ion Ratio Lower Upper
 146 100
 111 35.1 25.4 47.2
 148 64.4 46.9 87.1



#63
 1,4-Dichlorobenzene
 Concen: 4.27 ug/L
 RT: 13.24 min Scan# 1901
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion:146 Resp: 449545
 Ion Ratio Lower Upper
 146 100
 111 34.2 26.2 48.6
 148 63.3 42.7 79.3

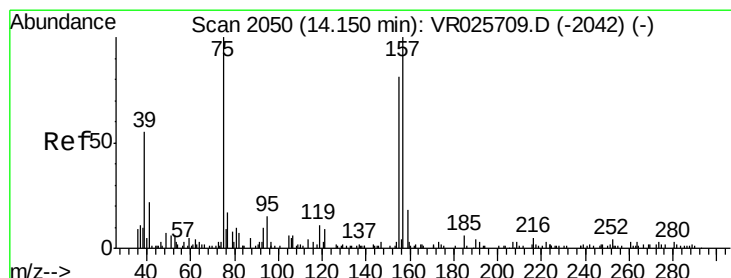
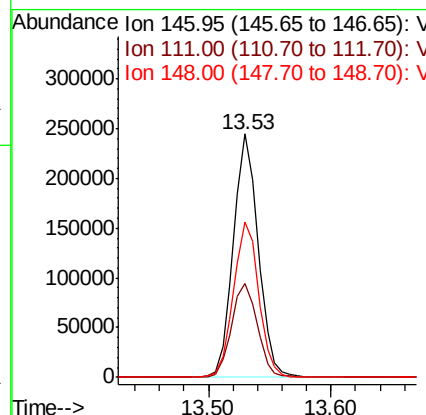
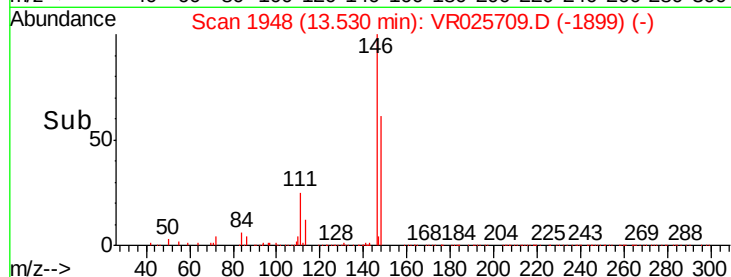
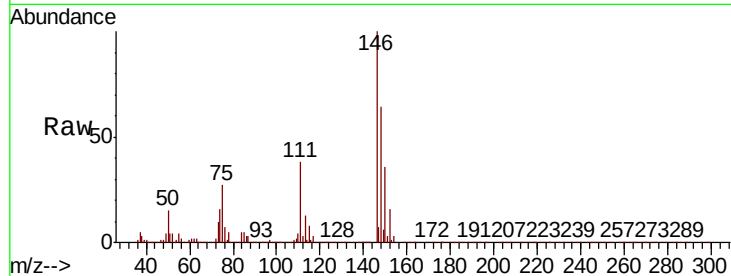




#65
 1,2-Dichlorobenzene
 Concen: 4.29 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

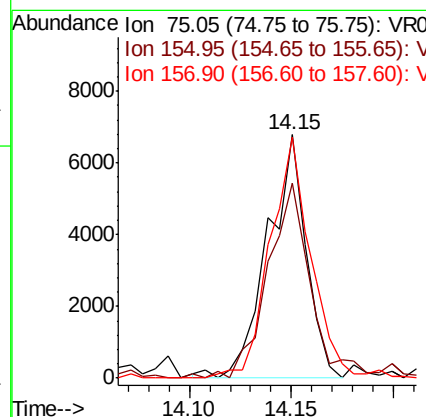
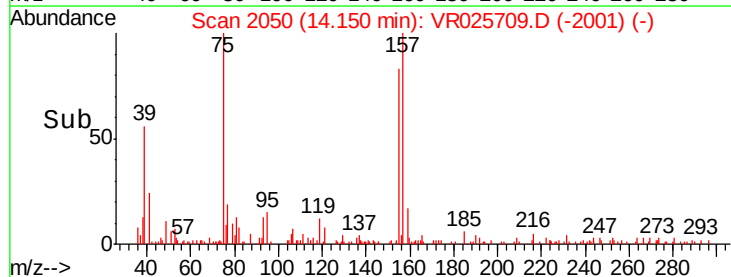
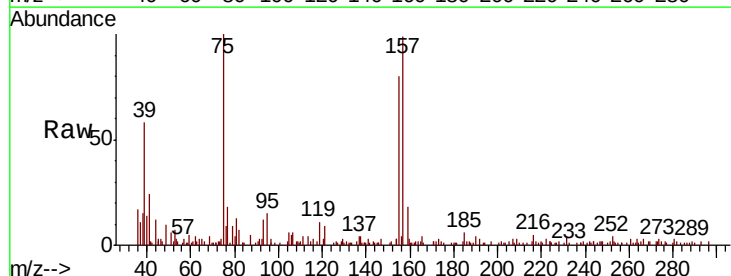
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00501

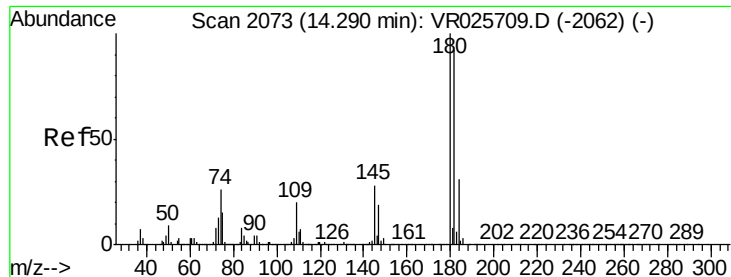
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	35.2	52.8
148	63.5	52.1	78.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.77 ug/L
 RT: 14.15 min Scan# 2050
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.1	79.3	118.9
157	98.7	81.4	122.2

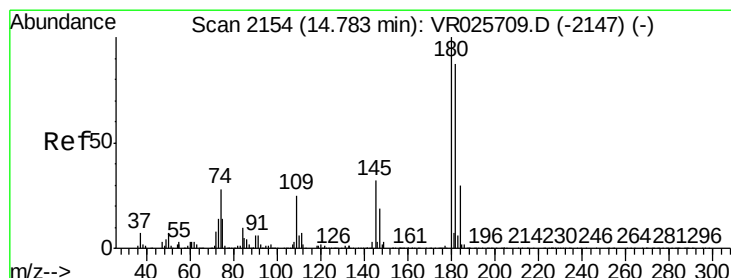
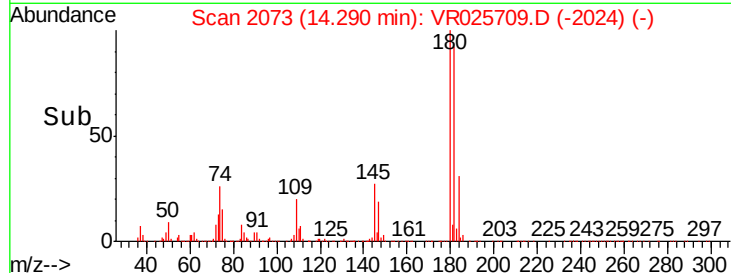
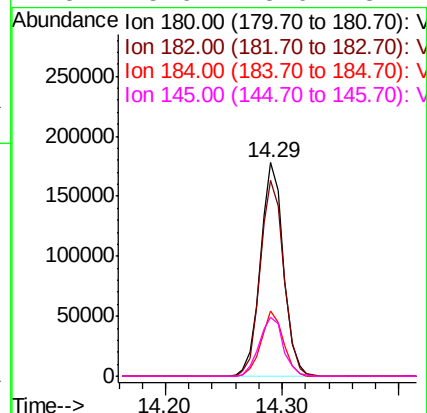
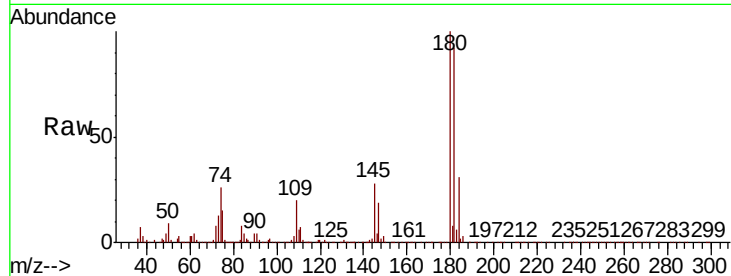




#67
 1,3,5-Trichlorobenzene
 Concen: 4.44 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

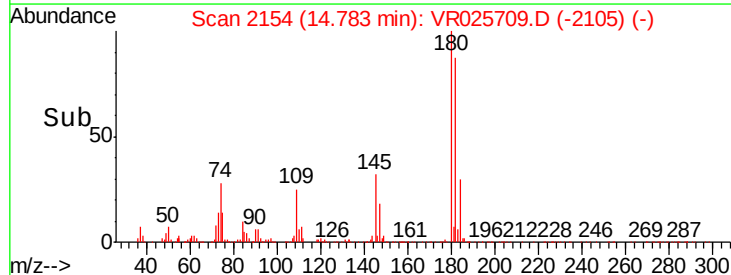
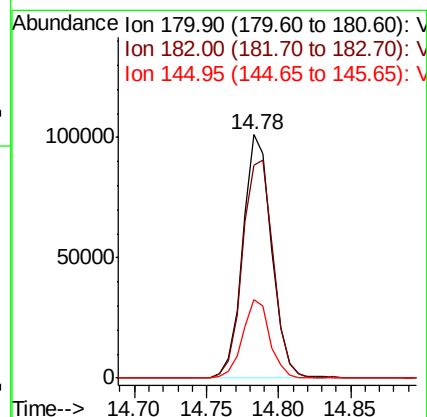
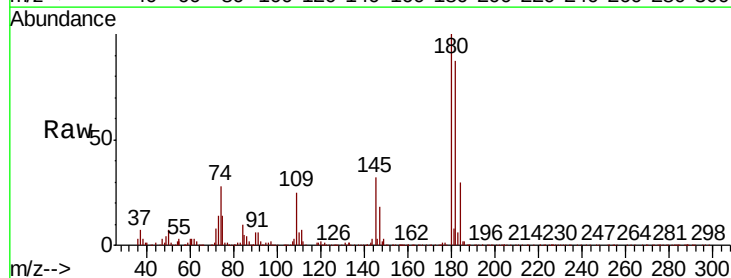
Instrument :
 MSVOA_R
 ClientSampled :
 VSTD00501

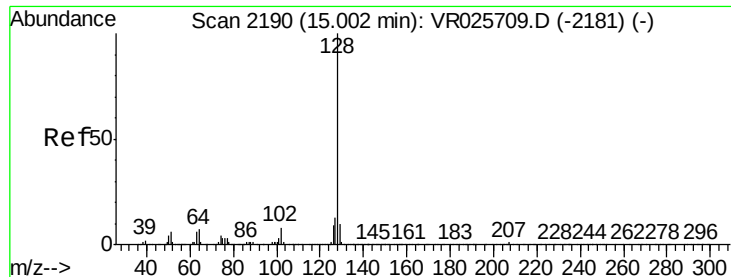
Tot Ion:	180	Resp:	244313
Ion	Ratio	Lower	Upper
180	100		
182	93.6	75.9	113.9
184	29.6	24.0	36.0
145	28.6	23.0	34.4



#68
 1,2,4-trichlorobenzene
 Concen: 4.15 ug/L
 RT: 14.78 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VR025709.D
 Acq: 13 Sep 2018 11:23

Tgt Ion:	180	Resp:	140132
Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.6	115.0
145	30.4	24.8	37.2





#69

Naphthalene

Concen: 3.95 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

Instrument :

MSVOA_R

ClientSampled :

VSTD00501

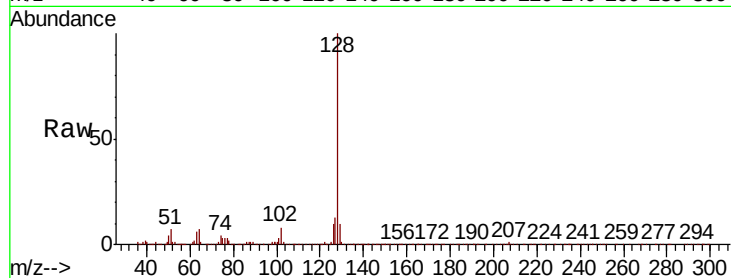
Tot Ion:128 Resp: 149047

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

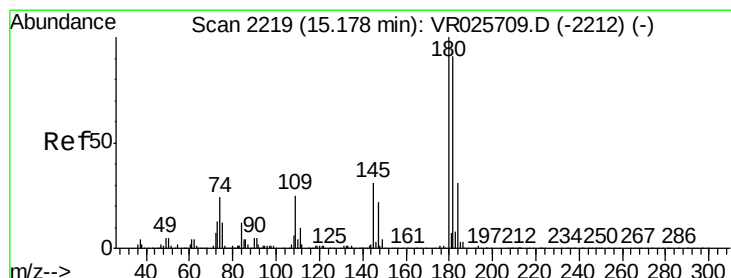
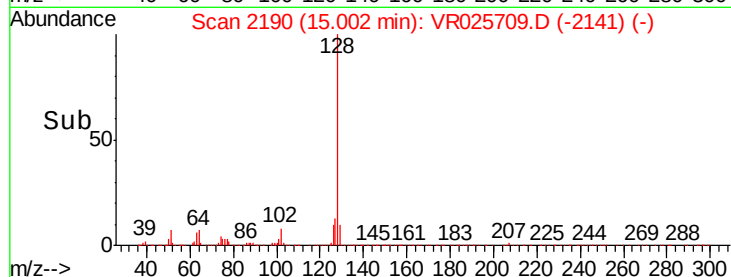
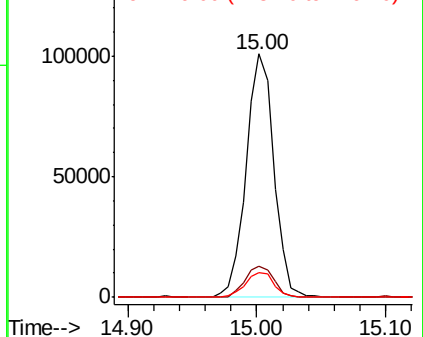
129 10.3 9.0 13.6



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



#70

1,2,3-Trichlorobenzene

Concen: 4.26 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VR025709.D

Acq: 13 Sep 2018 11:23

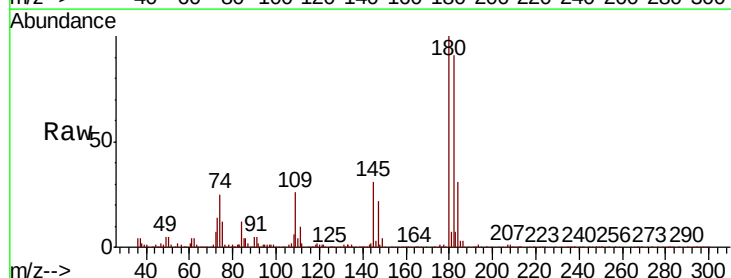
Tgt Ion:180 Resp: 113700

Ion Ratio Lower Upper

180 100

182 96.6 80.2 120.4

145 31.1 25.8 38.6



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

