

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091418\
 Data File : VR025738.D
 Acq On : 14 Sep 2018 19:46
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00504

Quant Time: Sep 15 03:31:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR090718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 15 03:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	711958	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	624576	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	270446	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.17	65	113990	3.68	ug/L	0.02
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.60%
7) Chloroethane-d5	2.63	69	106501	4.20	ug/L	0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	3.63	63	370258	4.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.40%
20) 2-Butanone-d5	6.59	46	165835	53.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.14%
24) Chloroform-d	7.20	84	332521	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	7.90	65	114850	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
32) Benzene-d6	7.85	84	767097	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
36) 1,2-Dichloropropane-d6	8.89	67	199181	4.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.60%
41) Toluene-d8	9.97	98	753815	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
43) trans-1,3-Dichloropropene-	10.24	79	40946	3.65	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.00%
46) 2-Hexanone-d5	10.59	63	190924	56.87	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.74%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	101353	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.80%
64) 1,2-Dichlorobenzene-d4	13.52	152	167549	4.37	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.84	85	162310	4.47	ug/L	97
3) Chloromethane	2.01	50	189085	4.24	ug/L	94
5) Vinyl chloride	2.17	62	204990	4.63	ug/L	95
6) Bromomethane	2.53	94	146480	4.62	ug/L	87
8) Chloroethane	2.66	64	119524	4.59	ug/L	99
9) Trichlorofluoromethane	2.93	101	108855	1.33	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	220949	5.02	ug/L	95
12) 1,1-Dichloroethene	3.66	96	211678	4.56	ug/L	80
13) Acetone	3.70	43	132264	62.81	ug/L	98
14) Carbon disulfide	3.96	76	517514	4.72	ug/L	95
15) Methyl Acetate	4.19	43	35599	4.74	ug/L	100
16) Methylene chloride	4.40	84	194816	4.74	ug/L	91
17) Methyl tert-butyl Ether	4.90	73	266434	4.66	ug/L	98
18) trans-1,2-Dichloroethene	4.88	96	273470	4.82	ug/L	90
19) 1,1-Dichloroethane	5.69	63	398558	4.55	ug/L	95
21) 2-Butanone	6.69	43	255729	57.55	ug/L	98
22) cis-1,2-Dichloroethene	6.68	96	245562	4.97	ug/L	97

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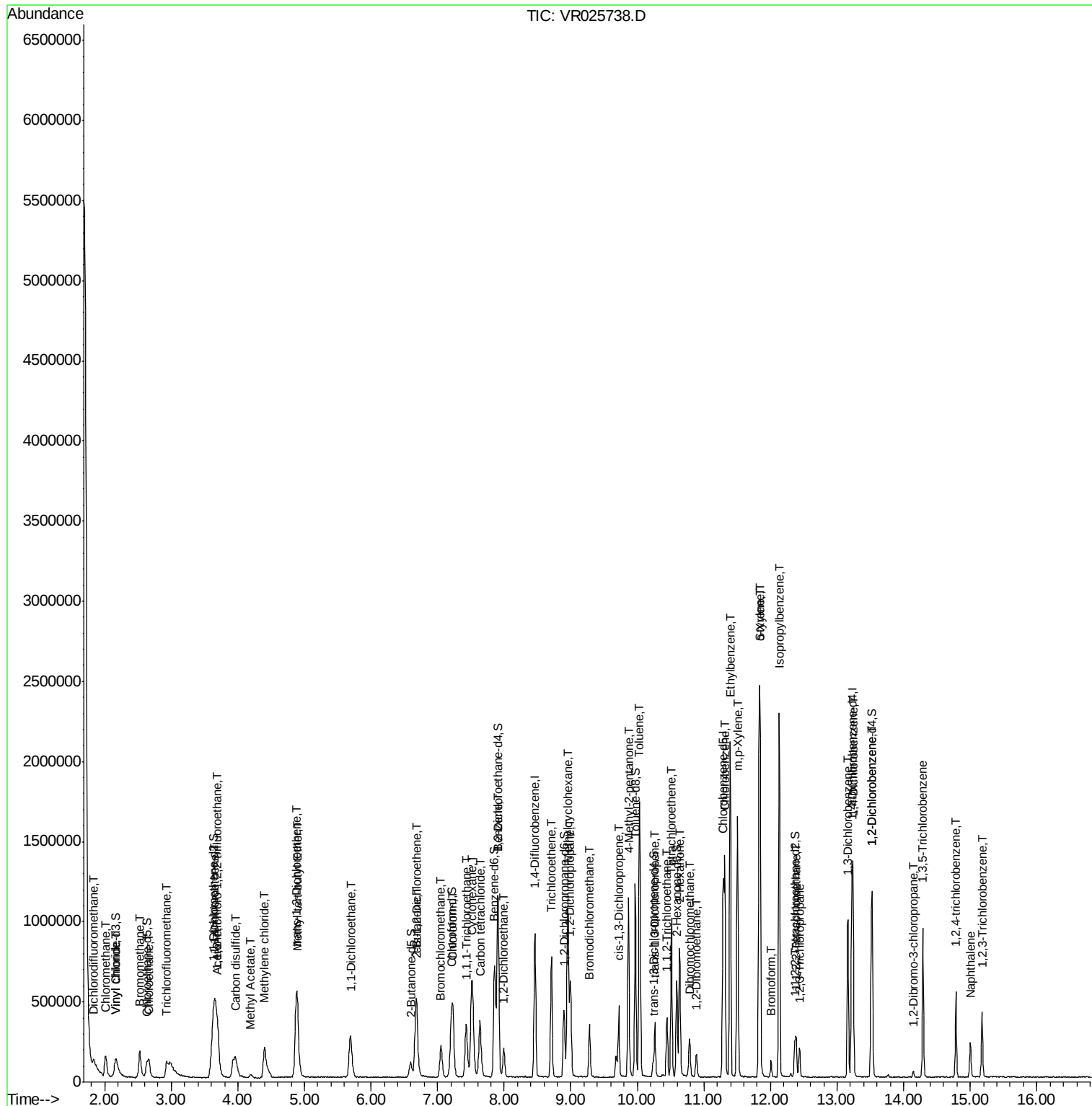
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.05	128	79740	4.71	ug/L	95
25) Chloroform	7.23	83	385168	4.82	ug/L	100
27) 1,2-Dichloroethane	7.99	62	148923	4.72	ug/L	98
29) 1,1,1-Trichloroethane	7.43	97	288098	4.63	ug/L	99
30) Cyclohexane	7.52	56	371401	4.97	ug/L	98
31) Carbon tetrachloride	7.64	117	285283	4.73	ug/L	96
33) Benzene	7.91	78	1069607	4.81	ug/L	100
34) Trichloroethene	8.71	95	243144	4.51	ug/L	99
35) Methylcyclohexane	8.95	83	440317	5.29	ug/L	97
37) 1,2-Dichloropropane	9.00	63	231678	4.62	ug/L	99
38) Bromodichloromethane	9.28	83	205441	4.56	ug/L	92
39) cis-1,3-Dichloropropene	9.72	75	235656	4.59	ug/L	100
40) 4-Methyl-2-pentanone	9.87	43	676113	54.52	ug/L	98
42) Toluene	10.03	91	1172193	5.15	ug/L	98
44) trans-1,3-Dichloropropene	10.26	75	161438	4.47	ug/L	94
45) 1,1,2-Trichloroethane	10.45	97	106074	4.51	ug/L	94
47) Tetrachloroethene	10.51	164	212180	4.80	ug/L	99
48) 2-Hexanone	10.63	43	462746	53.21	ug/L	98
49) Dibromochloromethane	10.79	129	116083	4.64	ug/L	100
50) 1,2-Dibromoethane	10.88	107	83032	4.45	ug/L #	93
51) Chlorobenzene	11.32	112	691642	4.83	ug/L	98
52) Ethylbenzene	11.39	91	1283839	5.23	ug/L	98
53) m,p-Xylene	11.50	106	506130	5.13	ug/L	99
54) o-Xylene	11.83	106	462247	5.31	ug/L	99
55) Styrene	11.84	104	741914	5.30	ug/L	98
56) Isopropylbenzene	12.13	105	1227998	5.66	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	110638	4.83	ug/L	97
59) 1,2,3-Trichloropropane	12.43	75	73279	4.76	ug/L	100
61) Bromoform	12.01	173	42852	3.70	ug/L	98
62) 1,3-Dichlorobenzene	13.16	146	385747	4.57	ug/L	98
63) 1,4-Dichlorobenzene	13.24	146	444175	4.62	ug/L	97
65) 1,2-Dichlorobenzene	13.53	146	351875	4.83	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.14	75	9031	4.21	ug/L	87
67) 1,3,5-Trichlorobenzene	14.29	180	255009	5.08	ug/L	99
68) 1,2,4-trichlorobenzene	14.78	180	147997	4.80	ug/L	97
69) Naphthalene	15.00	128	151513	4.40	ug/L	98
70) 1,2,3-Trichlorobenzene	15.18	180	121751	4.99	ug/L	96

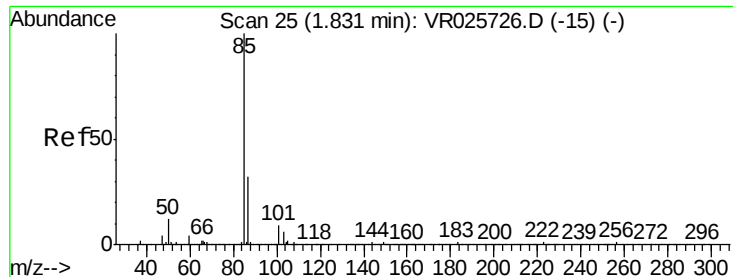
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.47 ug/L

RT: 1.84 min Scan# 26

Delta R.T. 0.01 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

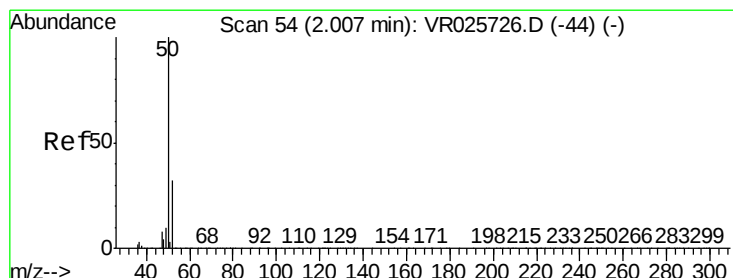
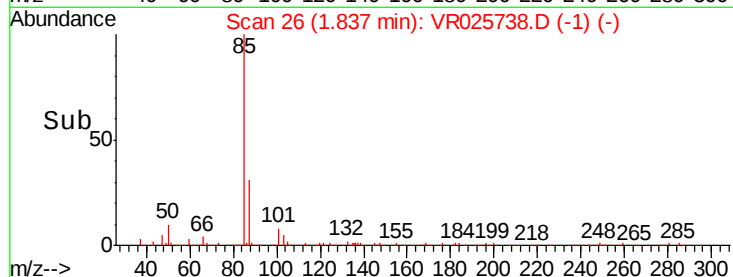
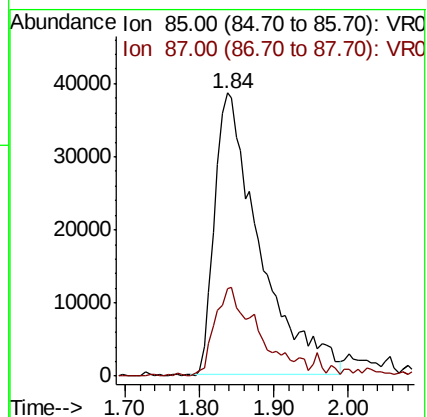
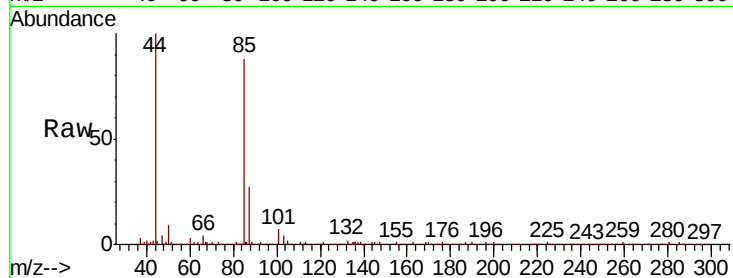
VSTD00504

Tot Ion: 85 Resp: 162310

Ion Ratio Lower Upper

85 100

87 30.1 25.3 37.9



#3

Chloromethane

Concen: 4.24 ug/L

RT: 2.01 min Scan# 54

Delta R.T. -0.00 min

Lab File: VR025738.D

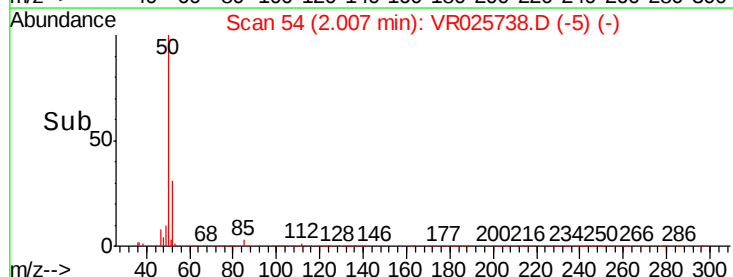
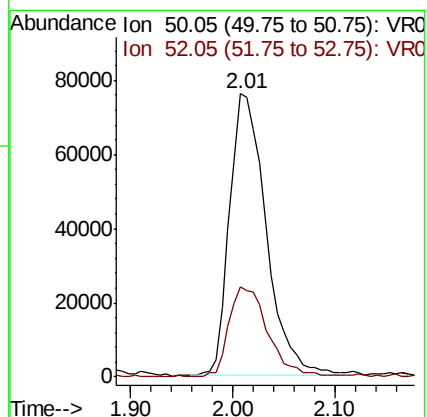
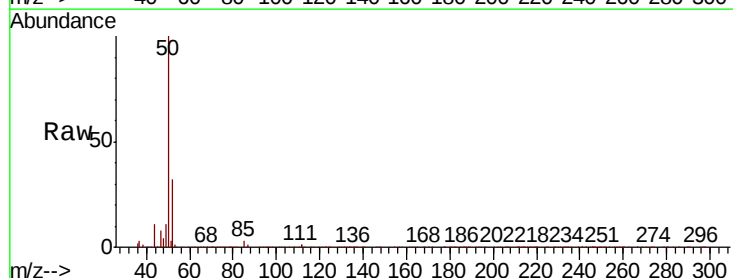
Acq: 14 Sep 2018 19:46

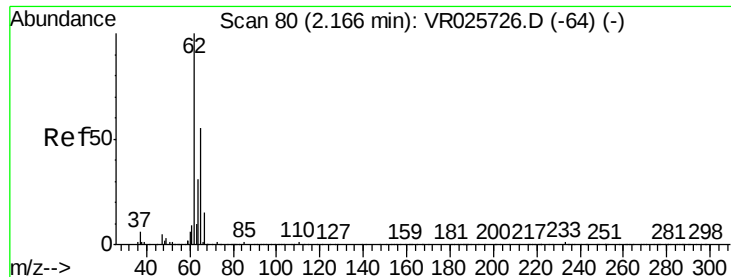
Tgt Ion: 50 Resp: 189085

Ion Ratio Lower Upper

50 100

52 31.7 24.6 45.8





#5

Vinyl chloride

Concen: 4.63 ug/L

RT: 2.17 min Scan# 81

Delta R.T. 0.01 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampled :

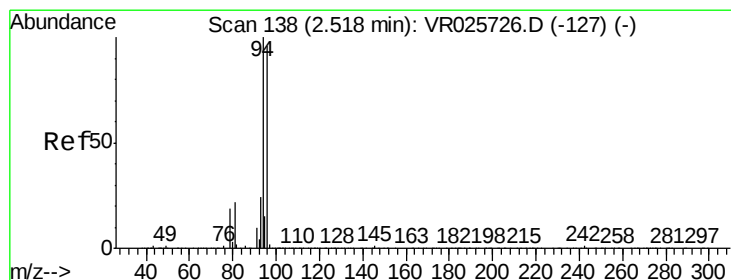
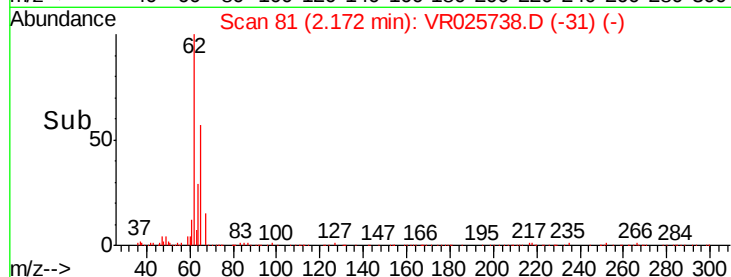
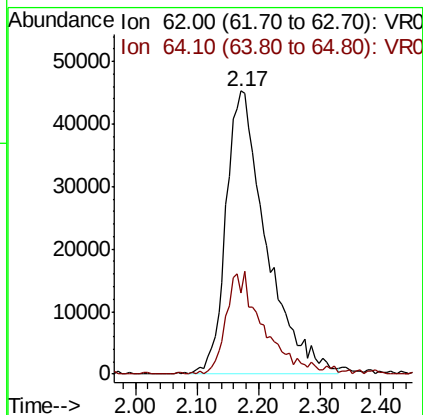
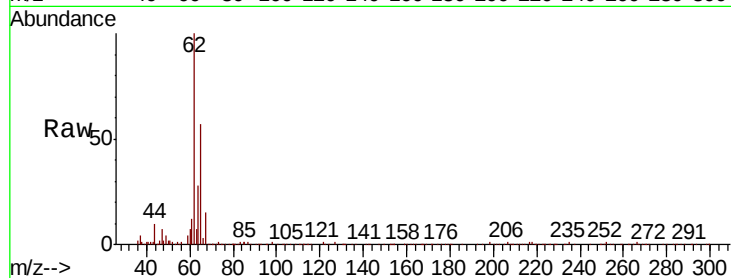
VSTD00504

Tot Ion: 62 Resp: 204990

Ion Ratio Lower Upper

62 100

64 28.5 22.0 40.8



#6

Bromomethane

Concen: 4.62 ug/L

RT: 2.53 min Scan# 140

Delta R.T. 0.01 min

Lab File: VR025738.D

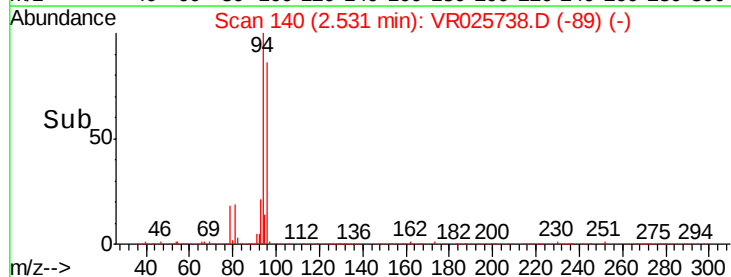
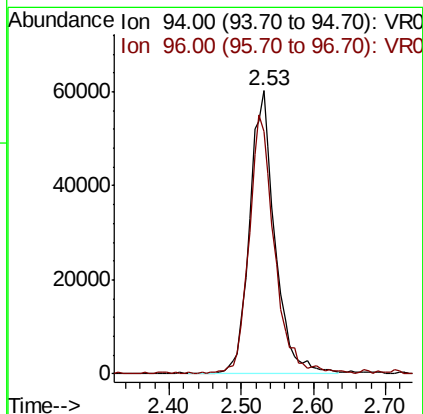
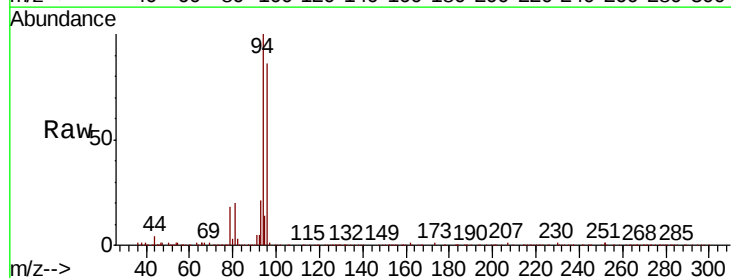
Acq: 14 Sep 2018 19:46

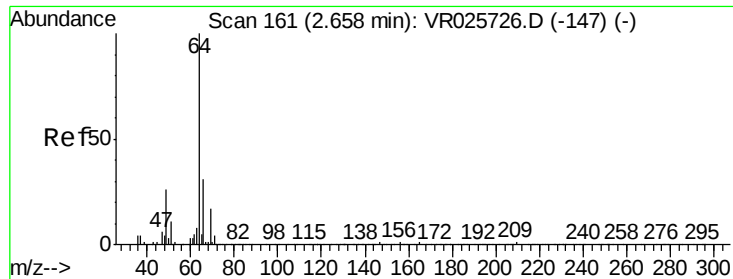
Tgt Ion: 94 Resp: 146480

Ion Ratio Lower Upper

94 100

96 85.6 68.9 127.9

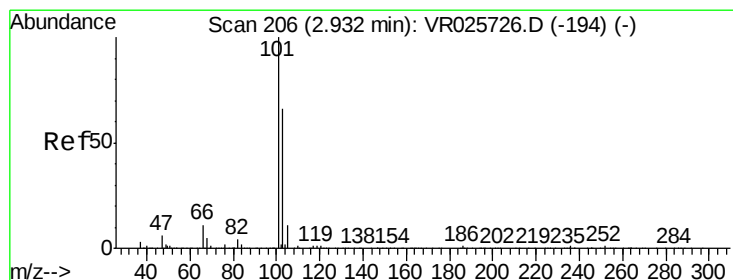
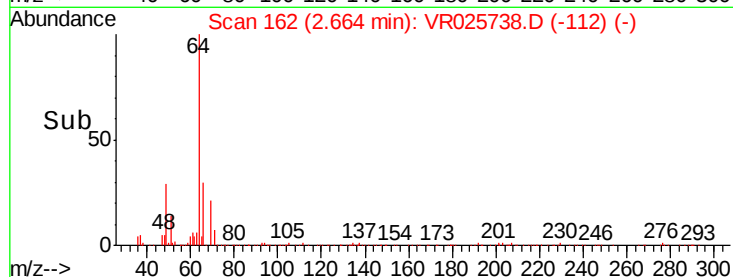
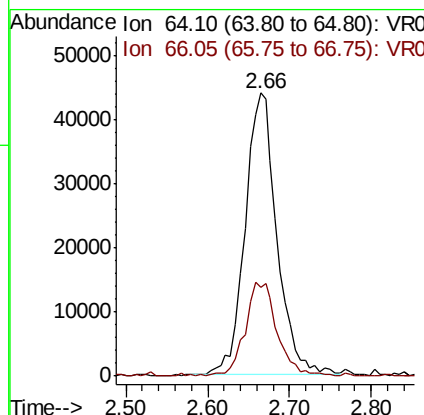
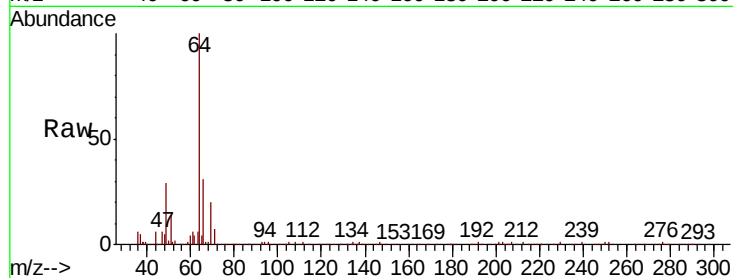




#8
Chloroethane
Concen: 4.59 ug/L
RT: 2.66 min Scan# 162
Delta R.T. 0.01 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

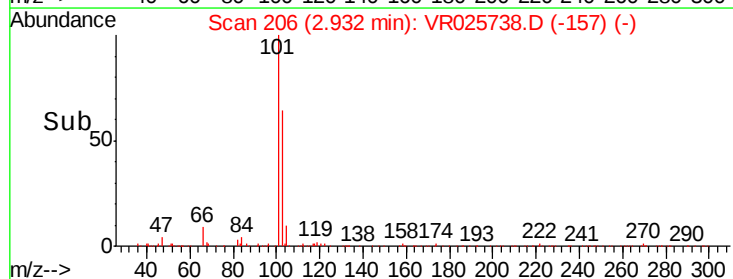
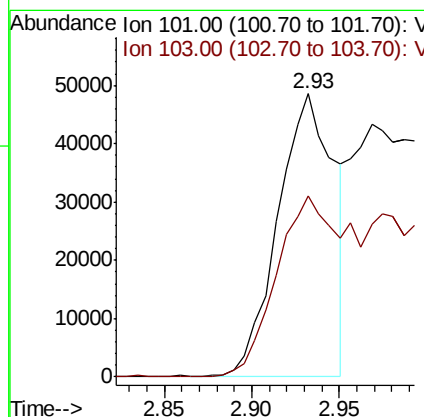
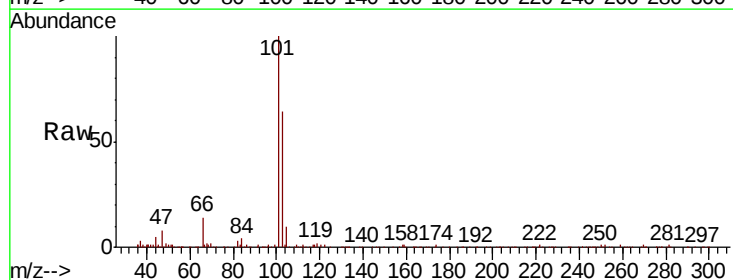
Instrument :
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ClientSampleId :
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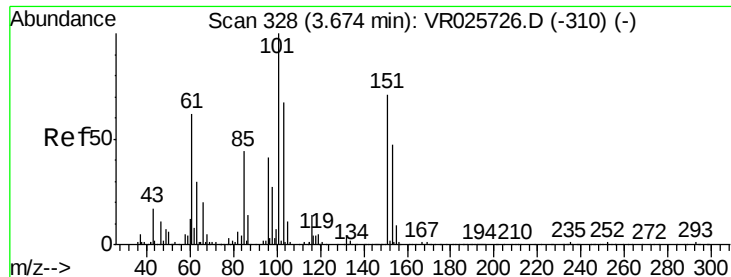
Tot Ion: 64 Resp: 119524
Ion Ratio Lower Upper
64 100
66 31.5 21.8 40.6



#9
Trichlorofluoromethane
Concen: 1.33 ug/L
RT: 2.93 min Scan# 206
Delta R.T. -0.00 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

Tgt Ion:101 Resp: 108855
Ion Ratio Lower Upper
101 100
103 67.3 13.2 19.8#





#10

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

Concen: 5.02 ug/L

RT: 3.69 min Scan# 331

Delta R.T. 0.02 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00504

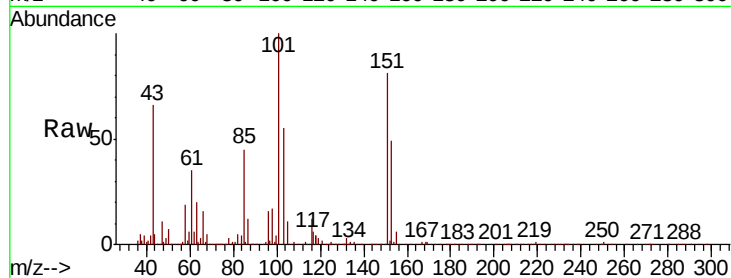
Tot Ion:101 Resp: 220949

Ion Ratio Lower Upper

101 100

85 44.1 38.1 57.1

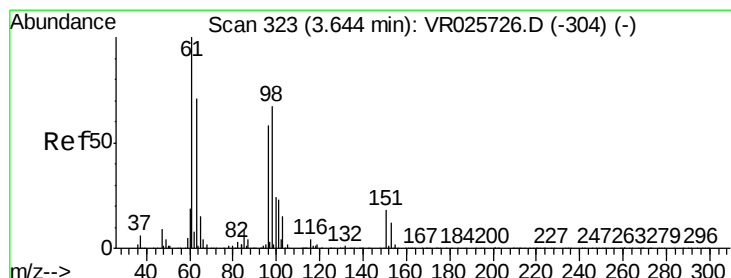
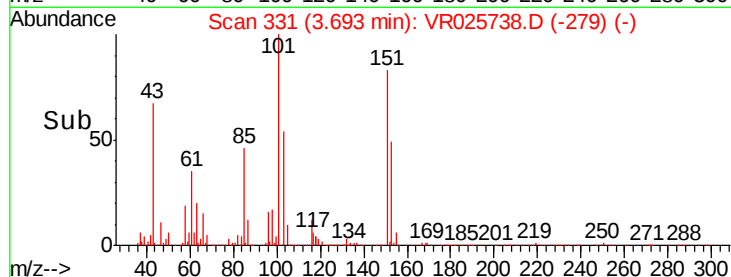
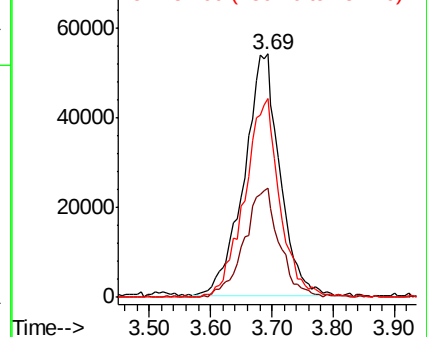
151 80.2 60.3 90.5



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: 4.56 ug/L

RT: 3.66 min Scan# 325

Delta R.T. 0.01 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

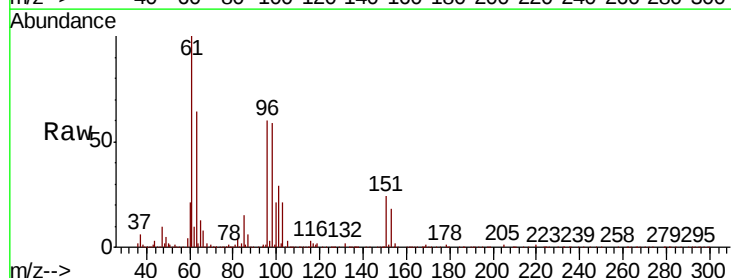
Tgt Ion: 96 Resp: 211678

Ion Ratio Lower Upper

96 100

61 167.3 128.4 238.4

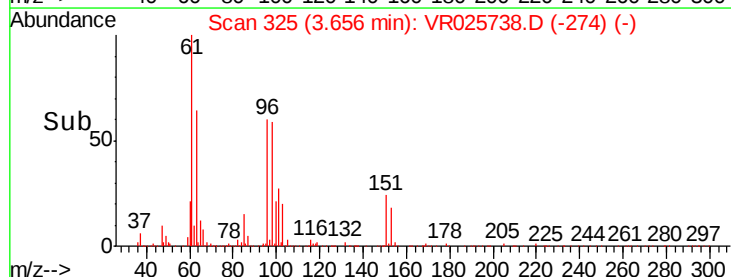
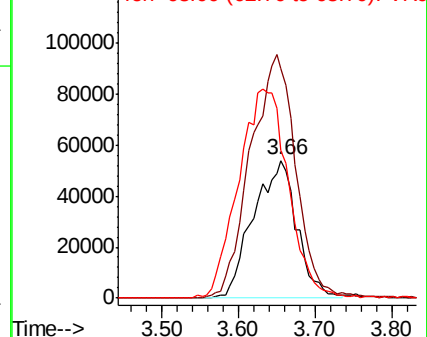
63 107.0 101.1 187.7

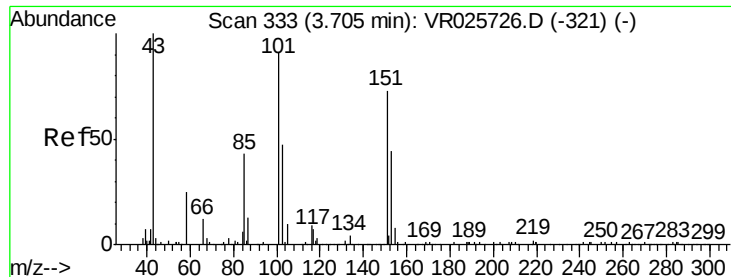


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 62.81 ug/L

RT: 3.70 min Scan# 332

Delta R.T. -0.01 min

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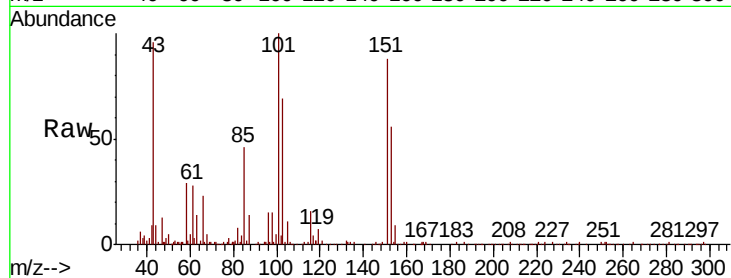
VSTD00504

Tot Ion: 43 Resp: 132264

Ion Ratio Lower Upper

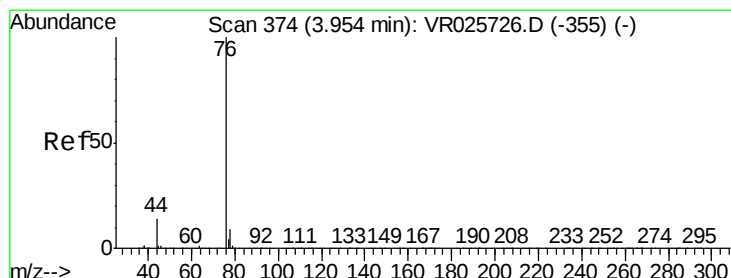
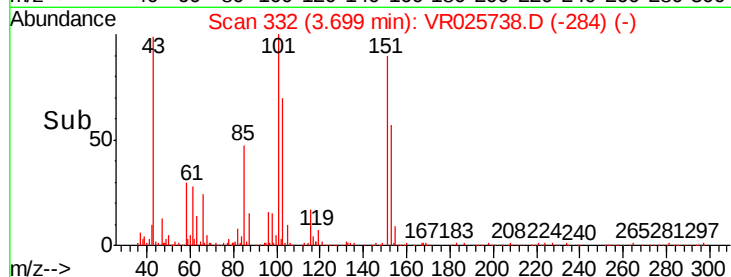
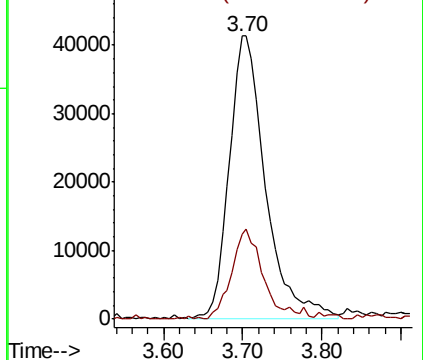
43 100

58 27.9 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: 4.72 ug/L

RT: 3.96 min Scan# 375

Delta R.T. 0.01 min

Lab File: VR025738.D

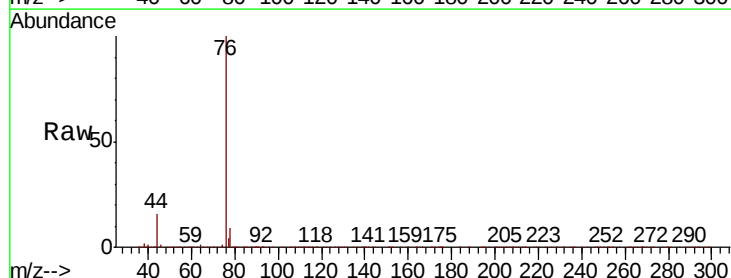
Acq: 14 Sep 2018 19:46

Tgt Ion: 76 Resp: 517514

Ion Ratio Lower Upper

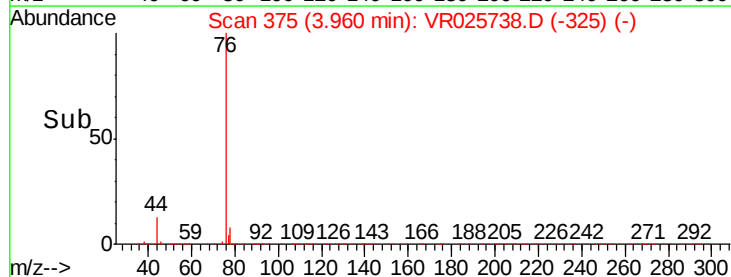
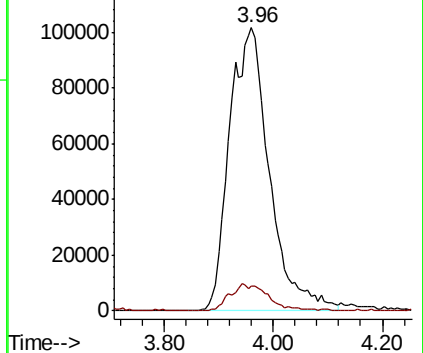
76 100

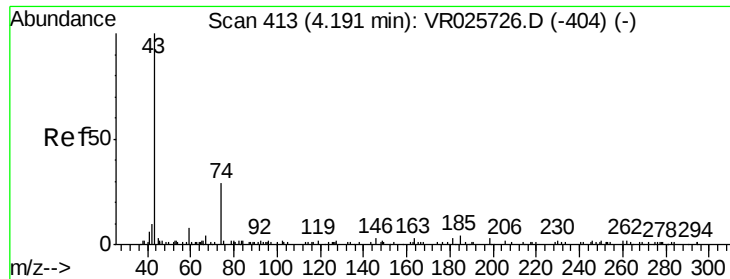
78 8.9 8.6 12.8



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0

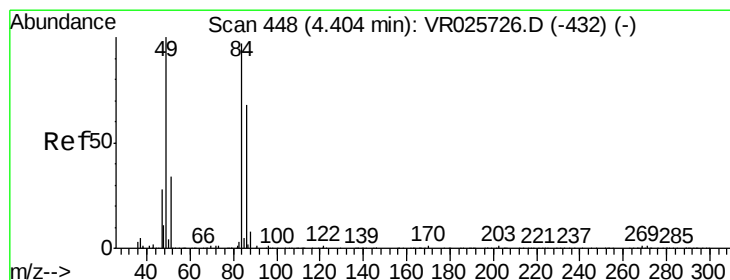
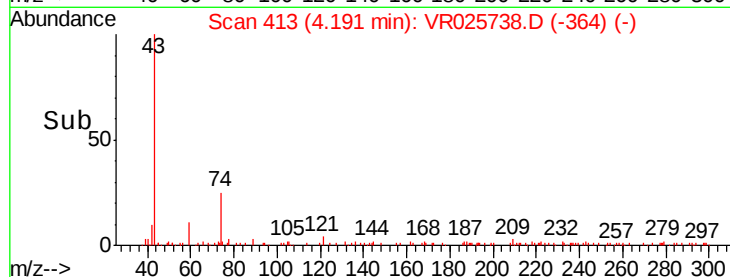
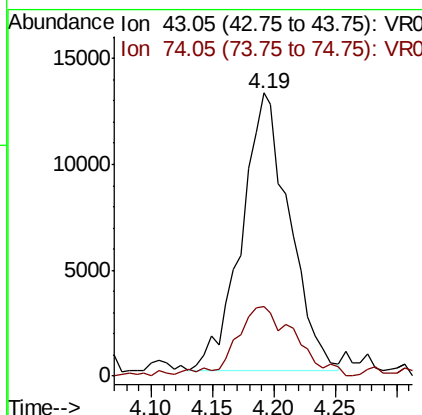
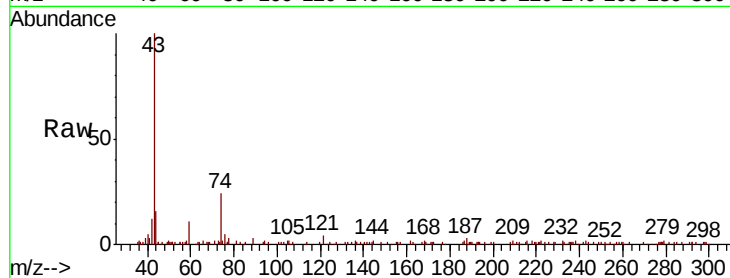




#15
Methyl Acetate
Concen: 4.74 ug/L
RT: 4.19 min Scan# 413
Delta R.T. -0.00 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

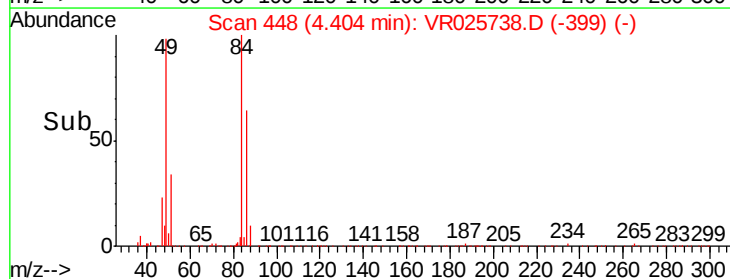
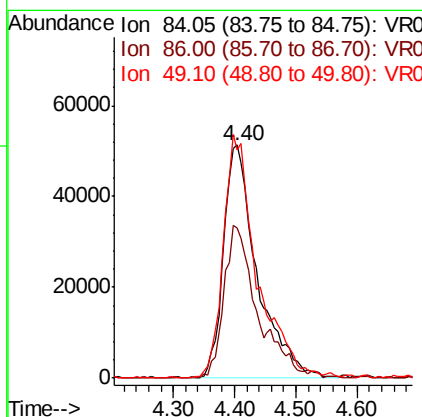
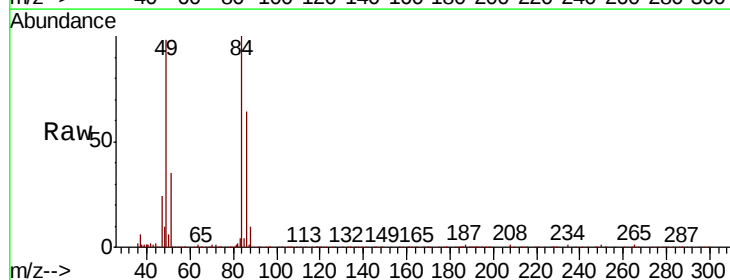
Instrument :
MSVOA_R
ClientSampled :
VSTD00504

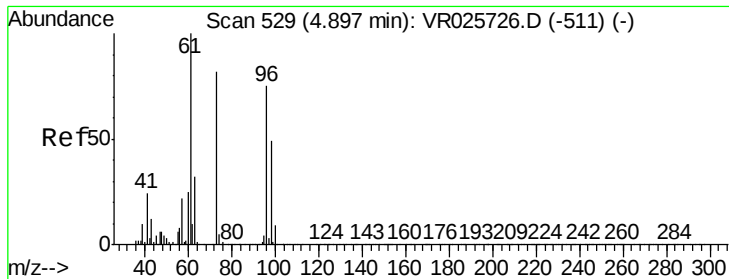
Tot Ion: 43 Resp: 35599
Ion Ratio Lower Upper
43 100
74 30.1 24.2 36.4



#16
Methylene chloride
Concen: 4.74 ug/L
RT: 4.40 min Scan# 448
Delta R.T. -0.00 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

Tgt Ion: 84 Resp: 194816
Ion Ratio Lower Upper
84 100
86 64.1 46.5 86.3
49 97.9 77.4 143.8





#17

Methvl tert-butvl Ether

Concen: 4.66 ug/L

RT: 4.90 min Scan# 529

Delta R.T. -0.00 min

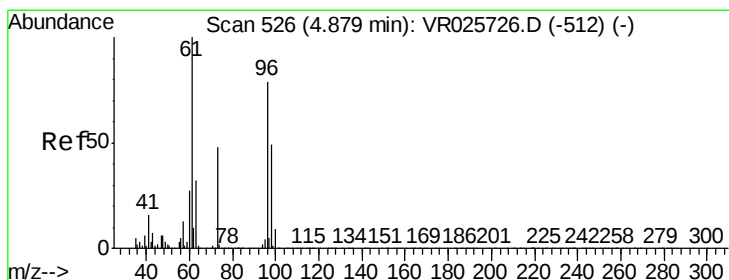
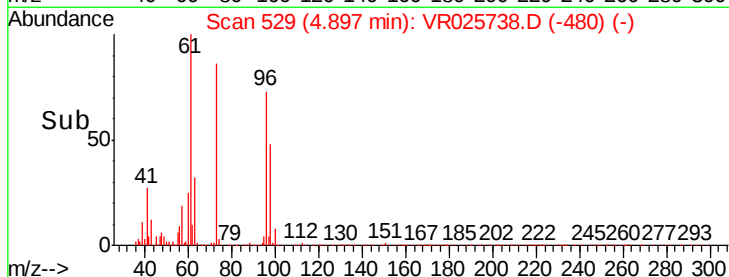
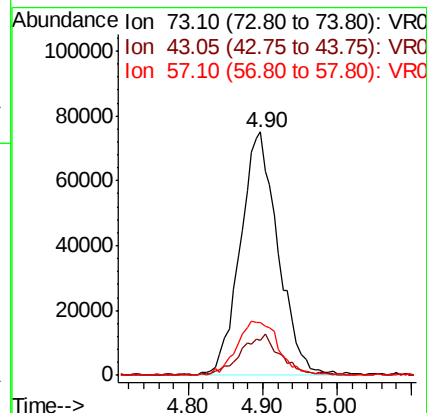
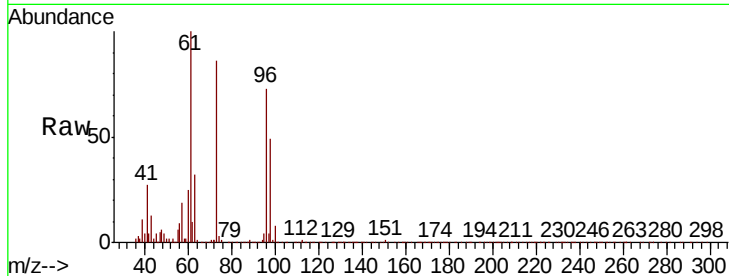
Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :
MSVOA_R
ClientSampleId :
VSTD00504

Tot Ion: 73 Resp: 266434

Ion	Ratio	Lower	Upper
73	100		
43	16.9	15.1	22.7
57	24.7	19.5	29.3



#18

trans-1,2-Dichloroethene

Concen: 4.82 ug/L

RT: 4.88 min Scan# 527

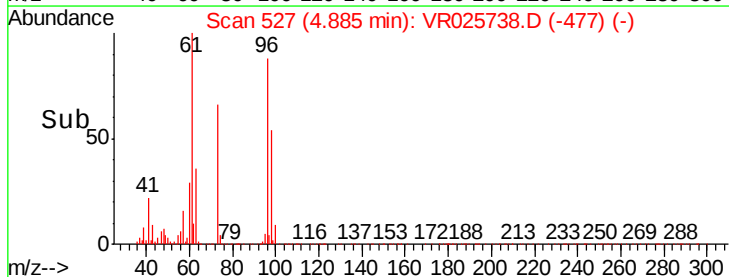
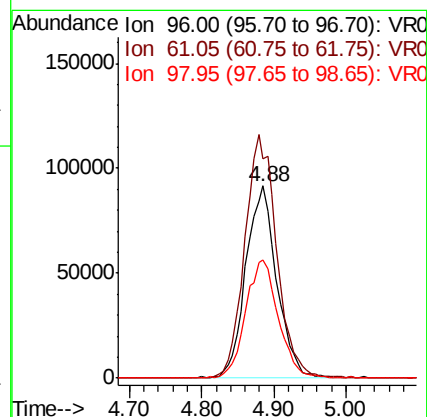
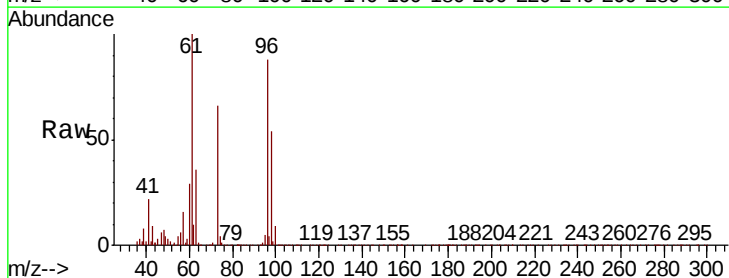
Delta R.T. 0.01 min

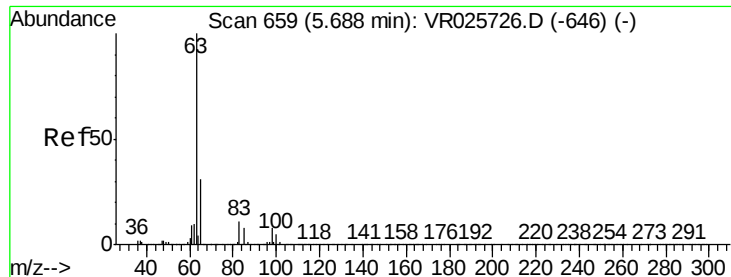
Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Tgt Ion: 96 Resp: 273470

Ion	Ratio	Lower	Upper
96	100		
61	114.0	91.3	169.6
98	61.3	43.2	80.2

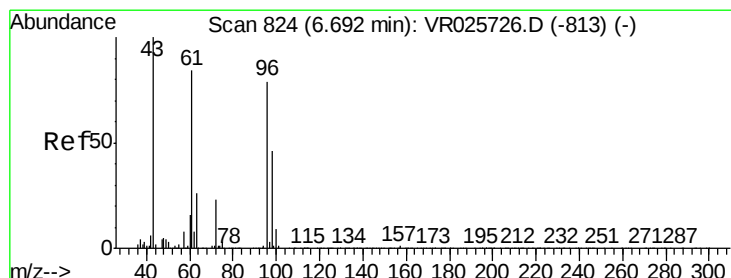
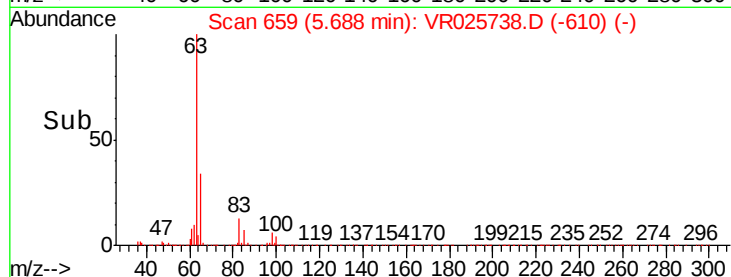
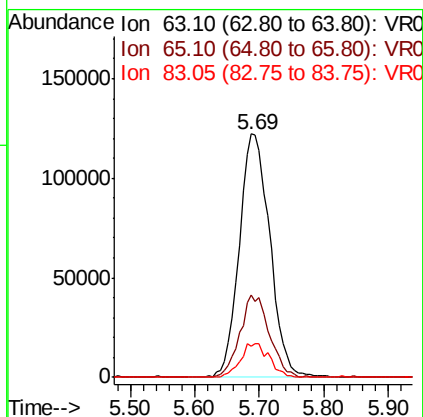
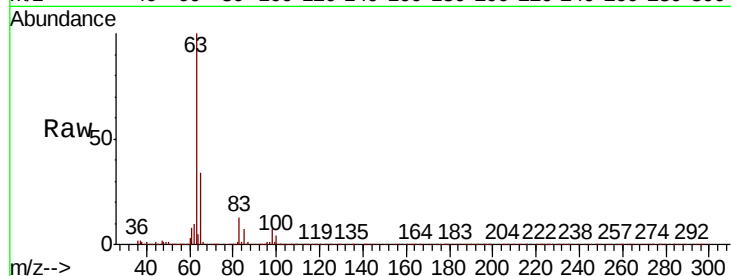




#19
 1,1-Dichloroethane
 Concen: 4.55 ug/L
 RT: 5.69 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

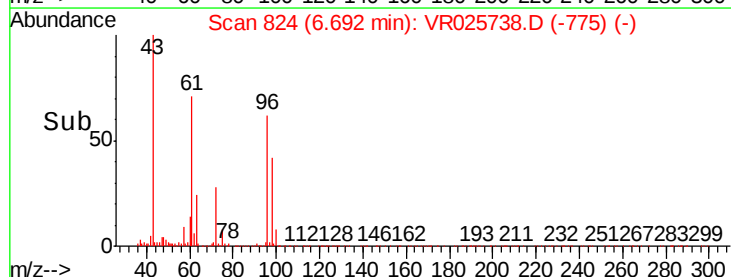
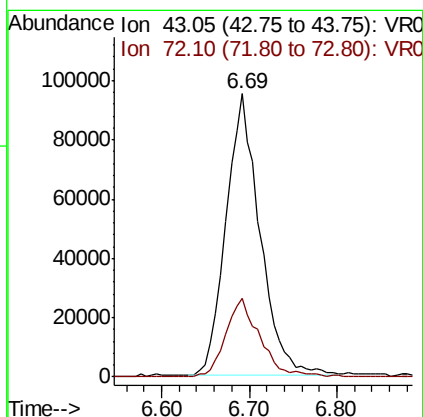
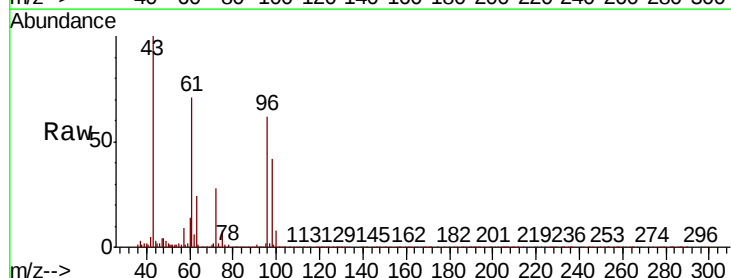
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00504

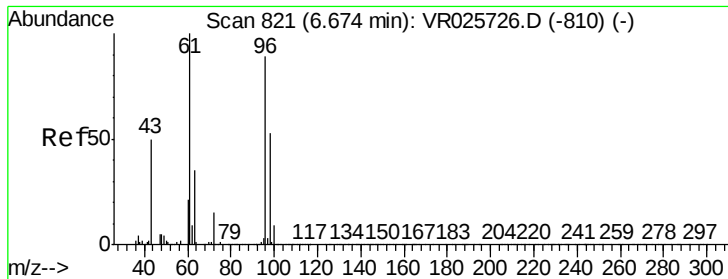
Tot Ion:	63	Resp:	398558
Ion	Ratio	Lower	Upper
63	100		
65	34.0	21.9	40.7
83	12.8	7.6	14.2



#21
 2-Butanone
 Concen: 57.55 ug/L
 RT: 6.69 min Scan# 824
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Tgt Ion:	43	Resp:	255729
Ion	Ratio	Lower	Upper
43	100		
72	27.6	13.3	39.9



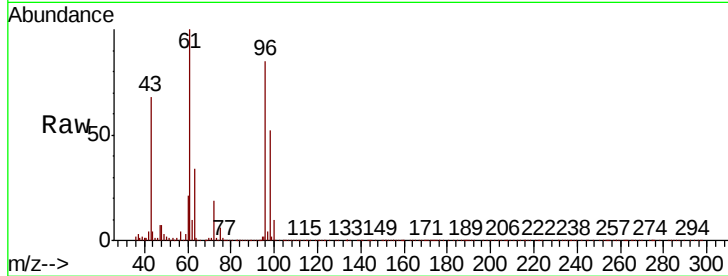


#22

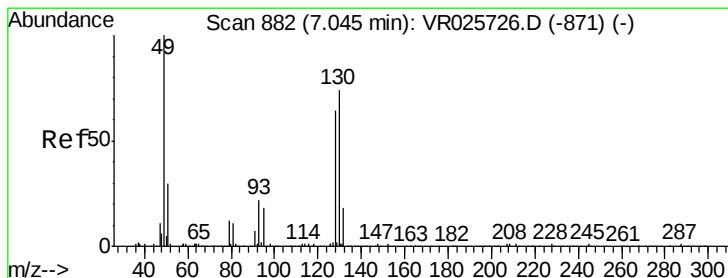
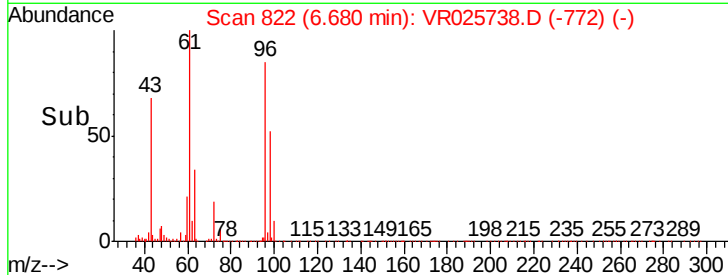
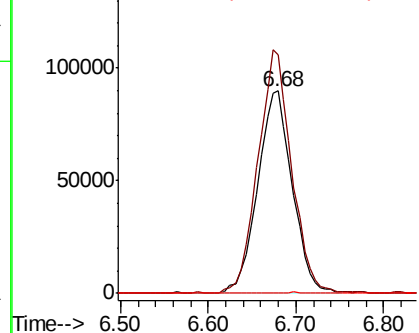
cis-1,2-Dichloroethene
Concen: 4.97 ug/L
RT: 6.68 min Scan# 822
Delta R.T. 0.01 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

Instrument :
MSVOA_R
ClientSampled :
VSTD00504

Tot Ion: 96 Resp: 245562
Ion Ratio Lower Upper
96 100
61 117.8 79.9 148.5
68 0.3 0.2 0.4



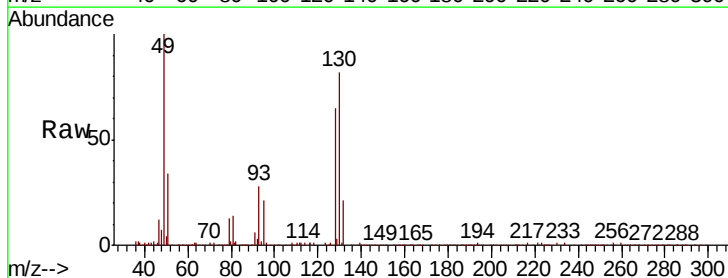
Abundance Ion 96.00 (95.70 to 96.70): VR0
Ion 61.05 (60.75 to 61.75): VR0
Ion 68.15 (67.85 to 68.85): VR0



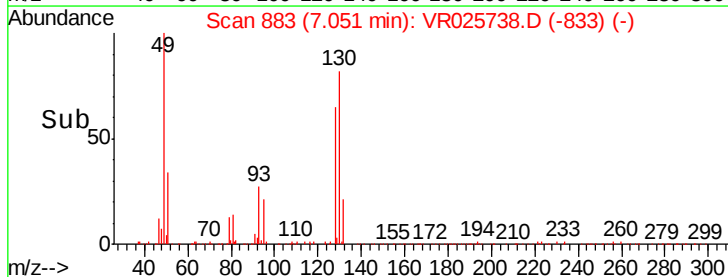
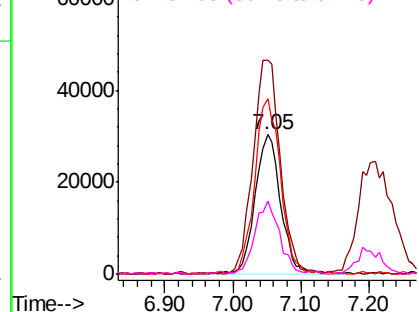
#23

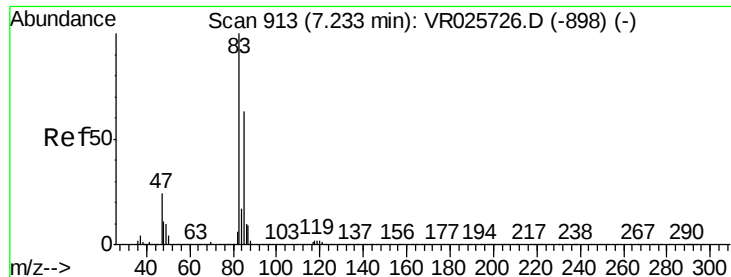
Bromochloromethane
Concen: 4.71 ug/L
RT: 7.05 min Scan# 883
Delta R.T. 0.01 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

Tgt Ion: 128 Resp: 79740
Ion Ratio Lower Upper
128 100
49 153.5 104.6 194.2
130 126.0 84.7 157.3
51 52.3 35.4 53.2



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VR0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VR0

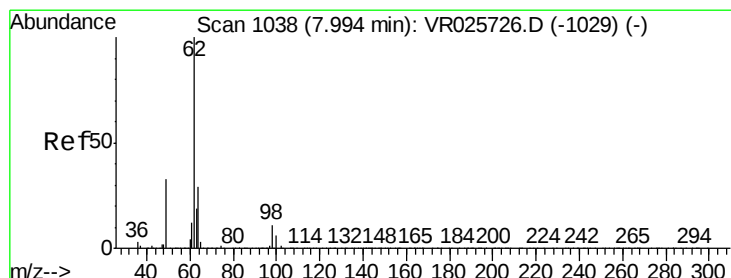
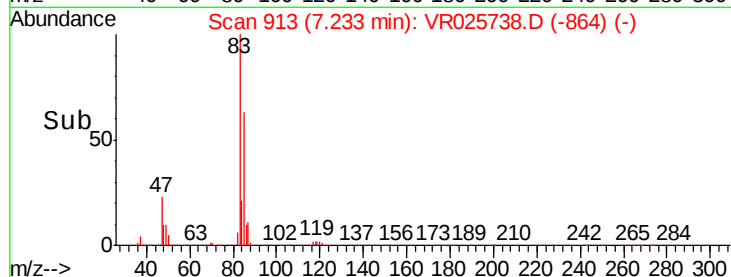
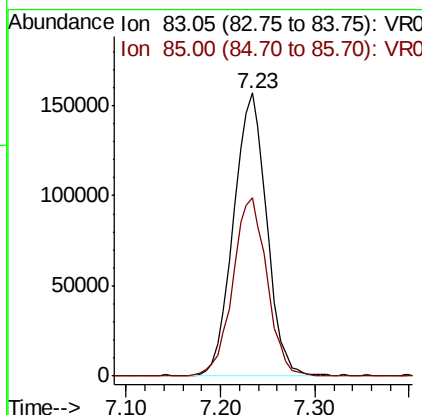
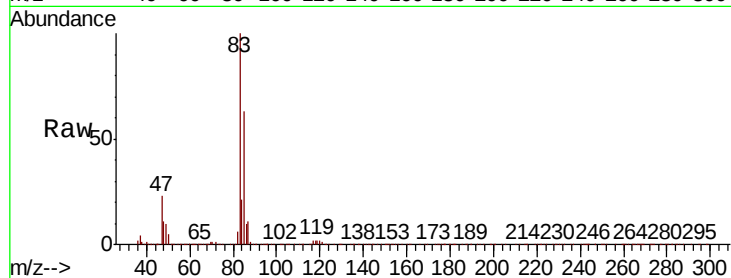




#25
Chloroform
Concen: 4.82 ug/L
RT: 7.23 min Scan# 913
Delta R.T. -0.00 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

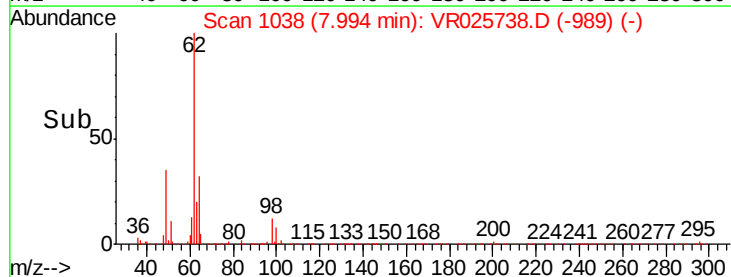
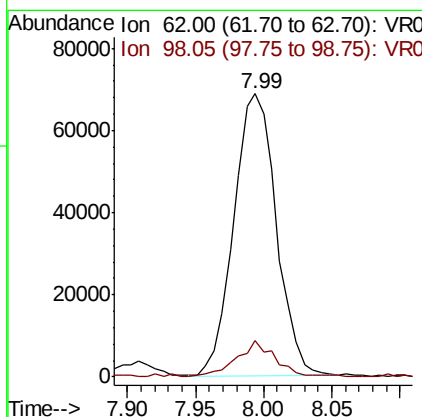
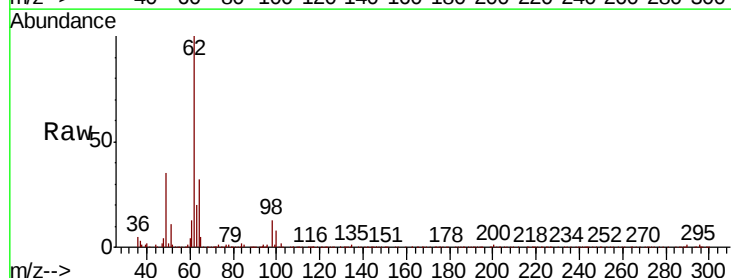
Instrument :
MSVOA_R
ClientSampleId :
VSTD00504

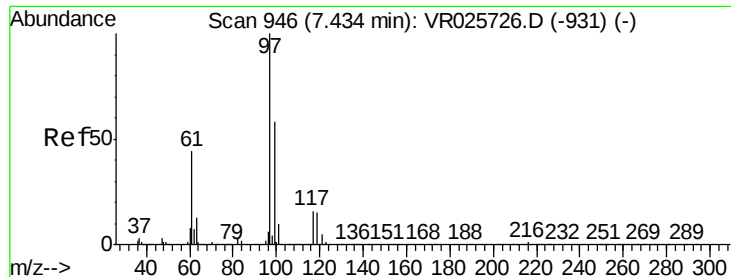
Tot Ion: 83 Resp: 385168
Ion Ratio Lower Upper
83 100
85 62.8 43.8 81.4



#27
1,2-Dichloroethane
Concen: 4.72 ug/L
RT: 7.99 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

Tgt Ion: 62 Resp: 148923
Ion Ratio Lower Upper
62 100
98 12.8 9.4 14.2





#29

1,1,1-Trichloroethane

Concen: 4.63 ug/L

RT: 7.43 min Scan# 946

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00504

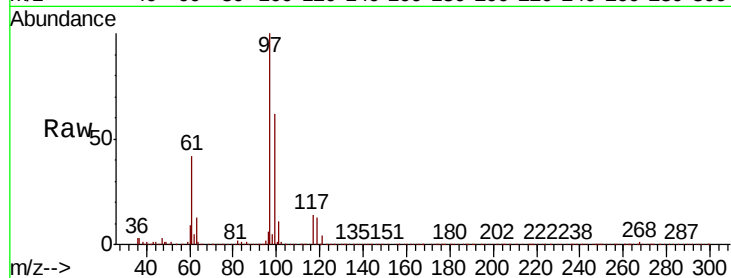
Tot Ion: 97 Resp: 288098

Ion Ratio Lower Upper

97 100

99 64.5 51.3 76.9

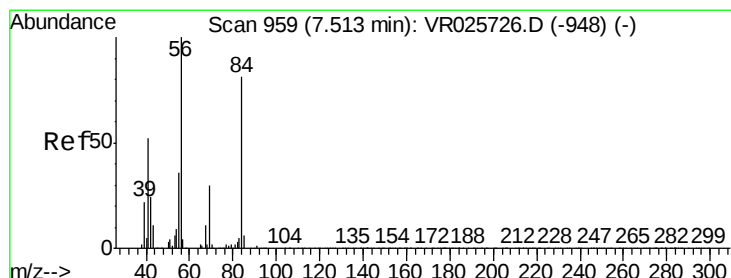
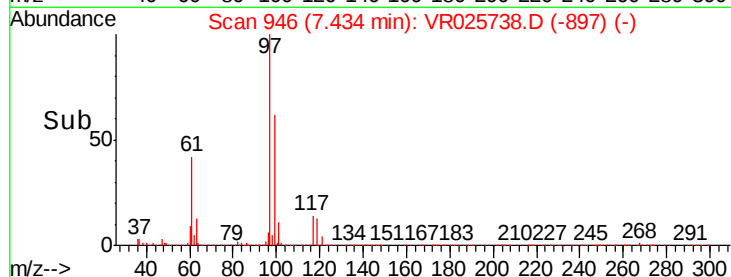
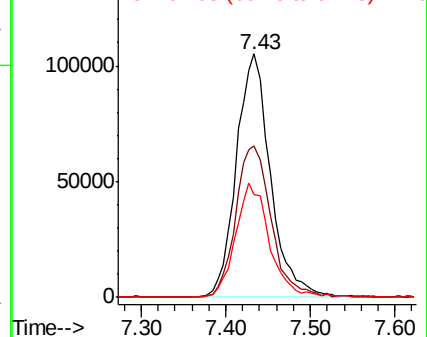
61 47.1 36.2 54.4



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: 4.97 ug/L

RT: 7.52 min Scan# 960

Delta R.T. 0.01 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

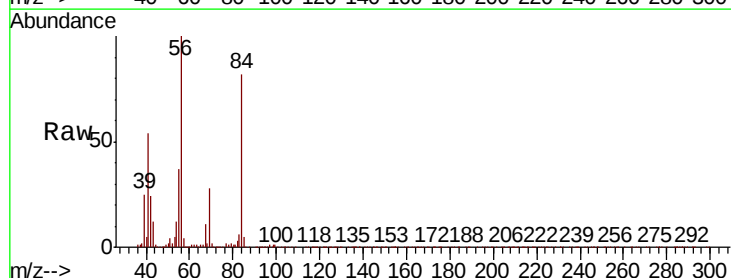
Tgt Ion: 56 Resp: 371401

Ion Ratio Lower Upper

56 100

69 29.4 23.4 35.2

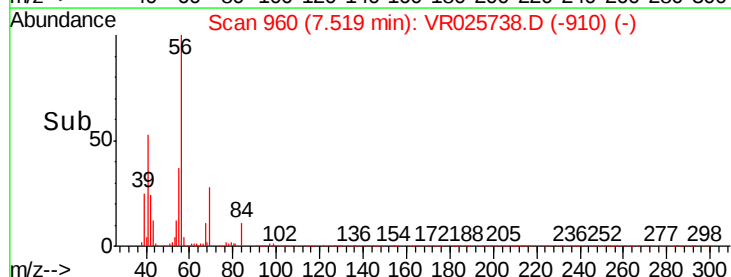
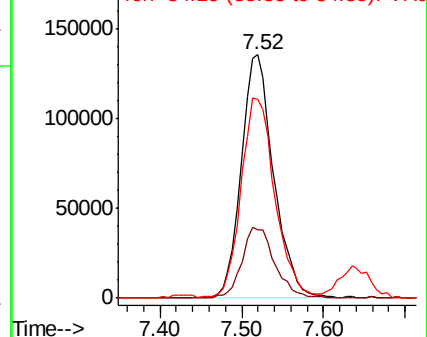
84 85.3 70.4 105.6

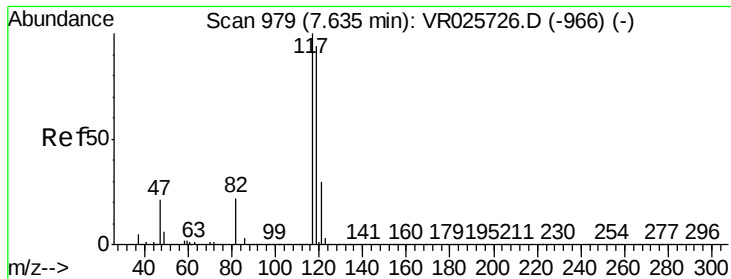


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 4.73 ug/L

RT: 7.64 min Scan# 980

Delta R.T. 0.01 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

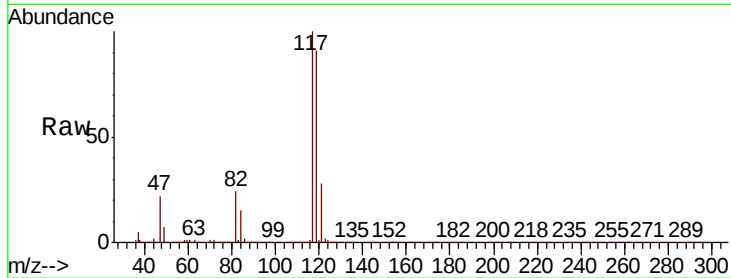
VSTD00504

Tot Ion:117 Resp: 285283

Ion Ratio Lower Upper

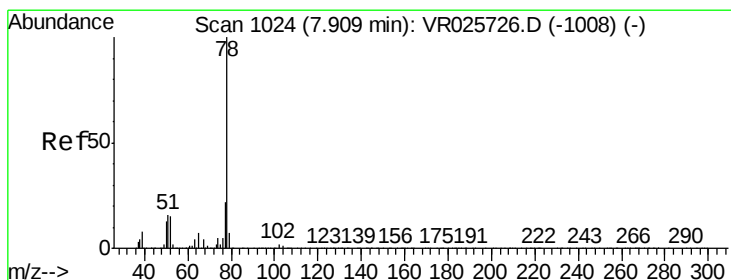
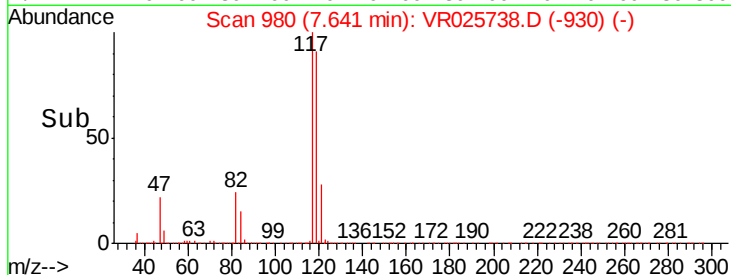
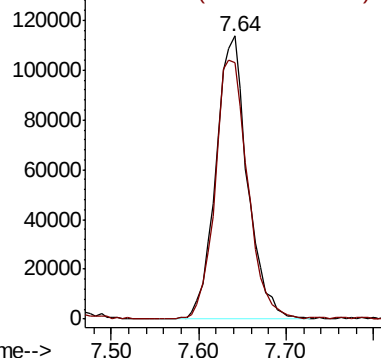
117 100

119 94.7 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: 4.81 ug/L

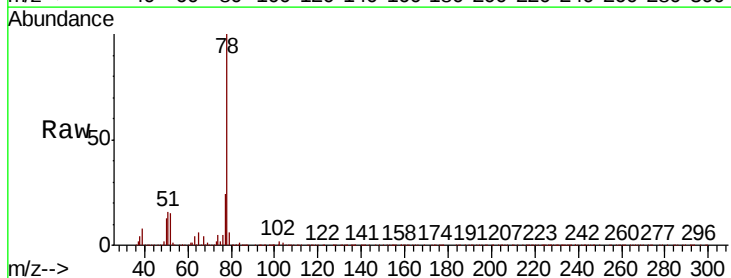
RT: 7.91 min Scan# 1024

Delta R.T. -0.00 min

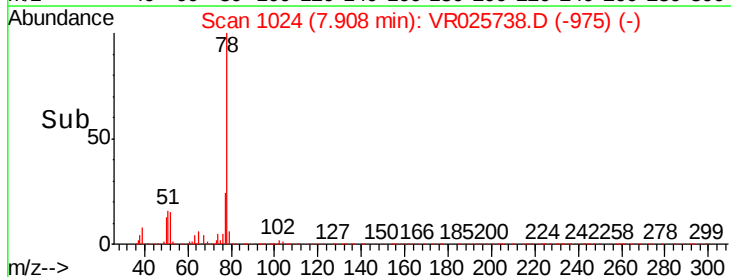
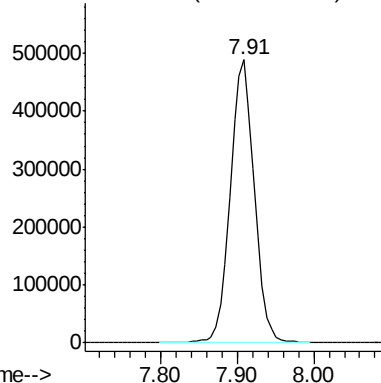
Lab File: VR025738.D

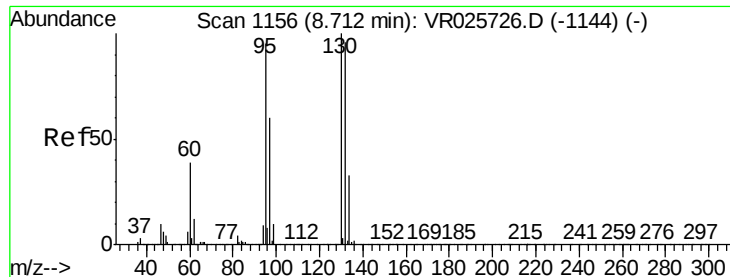
Acq: 14 Sep 2018 19:46

Tgt Ion: 78 Resp: 1069607



Abundance Ion 78.10 (77.80 to 78.80): VR0





#34

Trichloroethene

Concen: 4.51 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00504

Tot Ion: 95 Resp: 243144

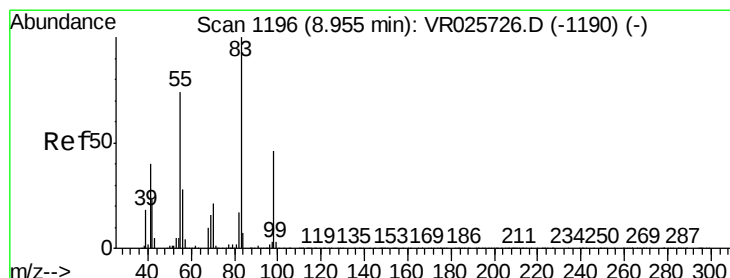
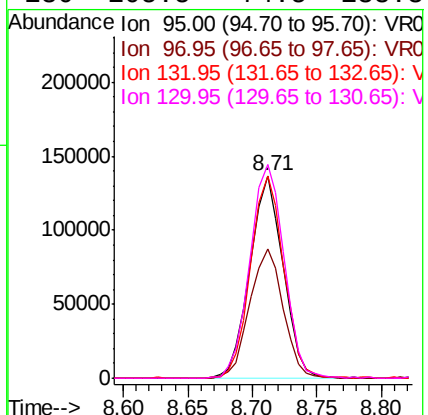
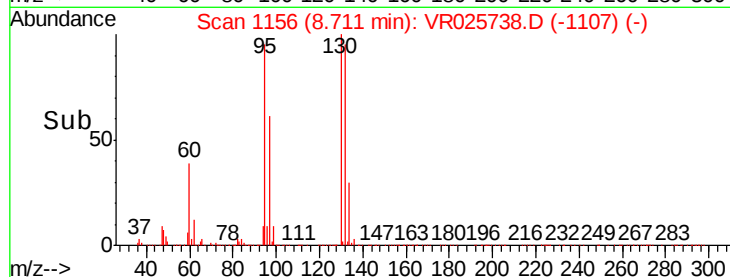
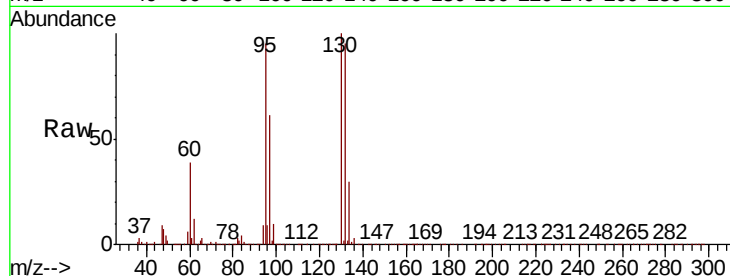
Ion Ratio Lower Upper

95 100

97 63.9 45.5 84.5

132 99.9 71.0 131.9

130 105.5 74.5 138.3



#35

Methylcyclohexane

Concen: 5.29 ug/L

RT: 8.95 min Scan# 1196

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

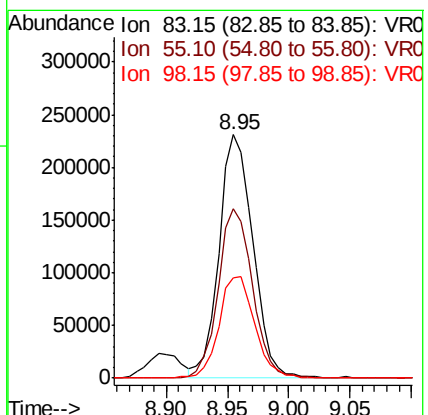
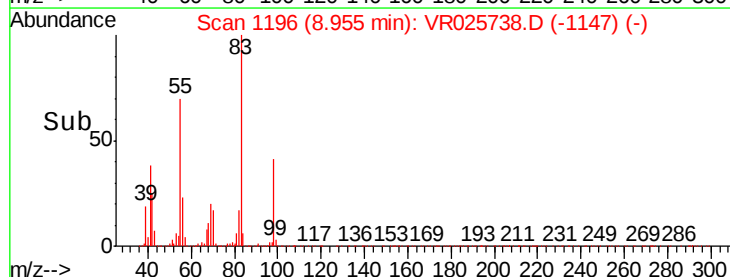
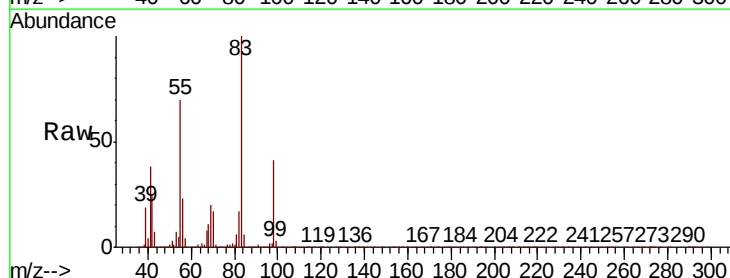
Tgt Ion: 83 Resp: 440317

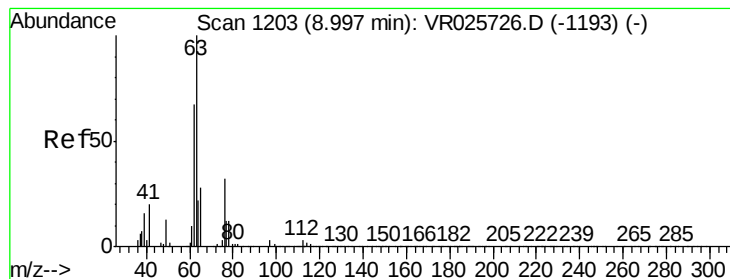
Ion Ratio Lower Upper

83 100

55 71.3 58.9 88.3

98 44.1 36.9 55.3





#37

1,2-Dichloropropane

Concen: 4.62 ug/L

RT: 9.00 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampled :

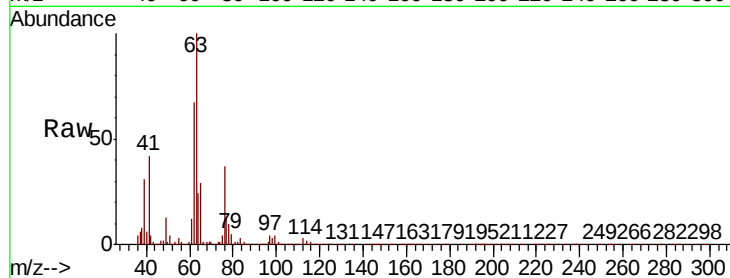
VSTD00504

Tot Ion: 63 Resp: 231678

Ion Ratio Lower Upper

63 100

112 3.4 2.9 4.3



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 112.10 (111.80 to 112.80): V

150000

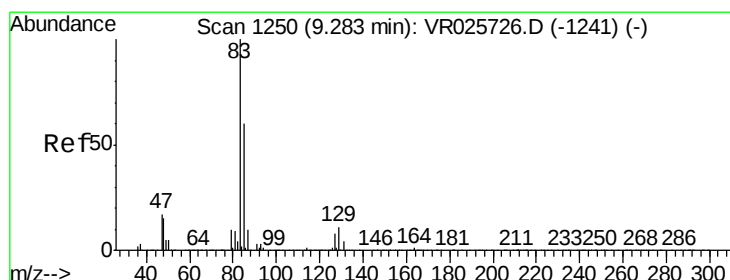
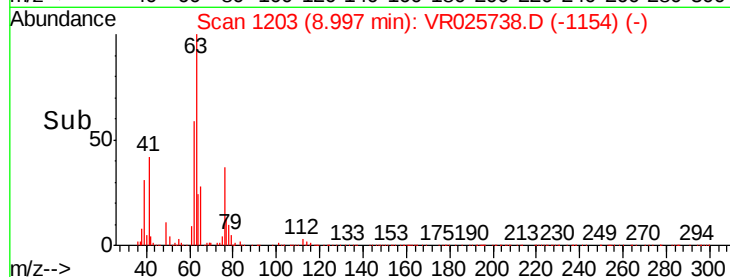
9.00

100000

50000

0

Time-->



#38

Bromodichloromethane

Concen: 4.56 ug/L

RT: 9.28 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

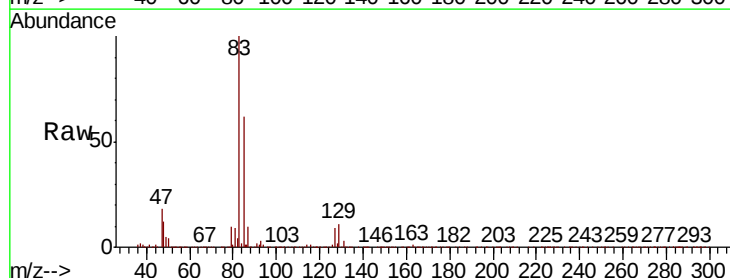
Tgt Ion: 83 Resp: 205441

Ion Ratio Lower Upper

83 100

85 62.6 48.7 90.5

127 8.7 7.5 11.3



Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 126.90 (126.60 to 127.60): V

150000

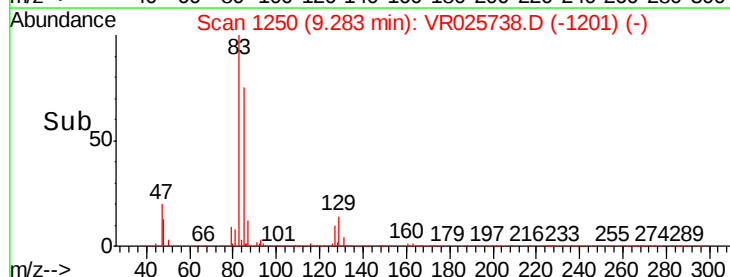
9.28

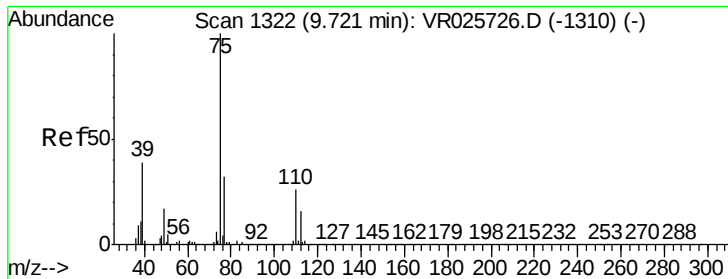
100000

50000

0

Time-->

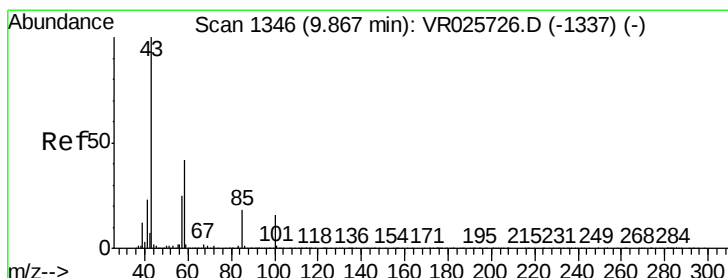
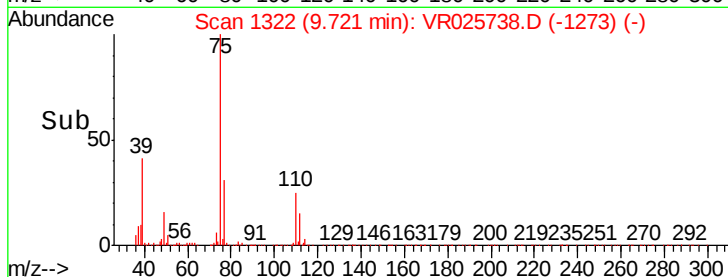
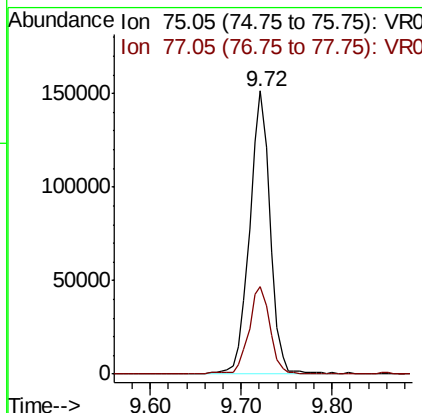
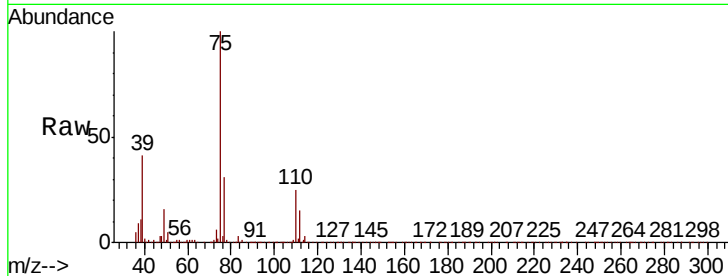




#39
 cis-1,3-Dichloropropene
 Concen: 4.59 ug/L
 RT: 9.72 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

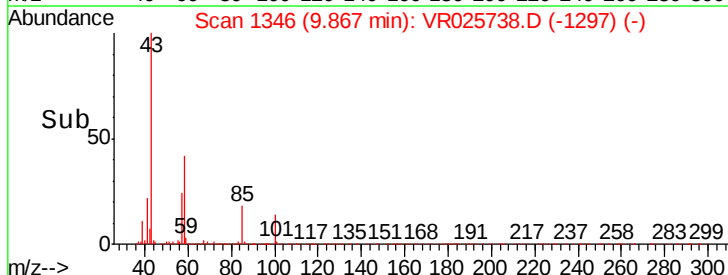
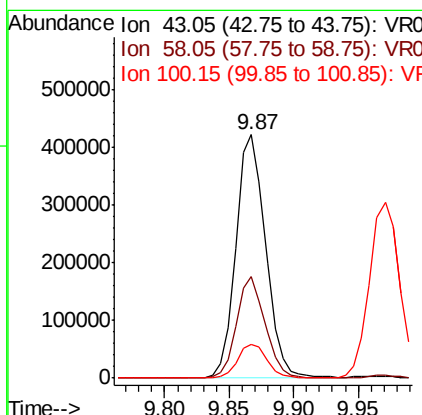
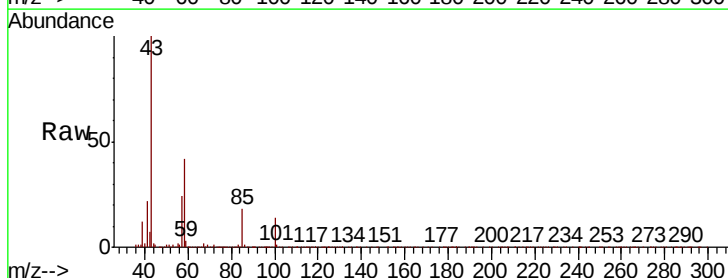
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00504

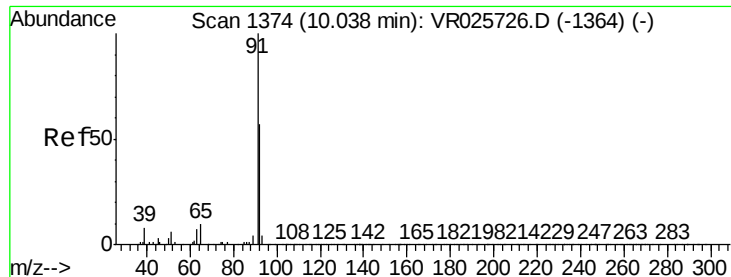
Tot Ion: 75 Resp: 235656
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 54.52 ug/L
 RT: 9.87 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Tgt Ion: 43 Resp: 676113
 Ion Ratio Lower Upper
 43 100
 58 40.0 30.6 46.0
 100 14.0 11.7 17.5





#42

Toluene

Concen: 5.15 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. -0.01 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

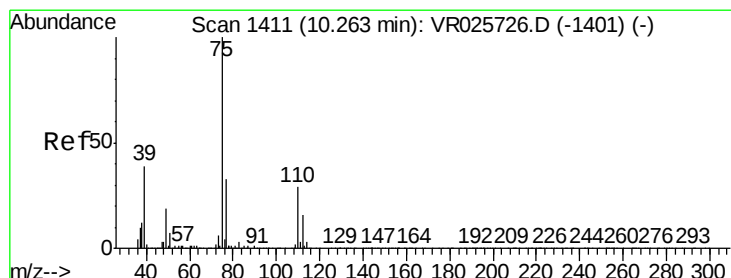
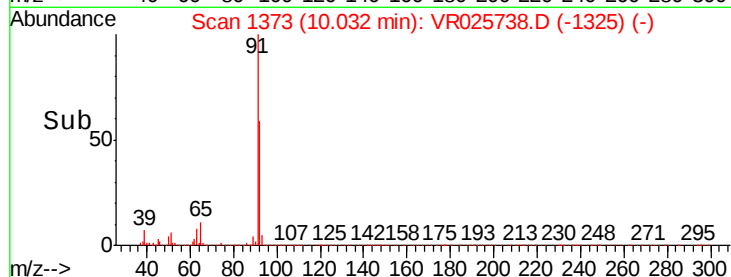
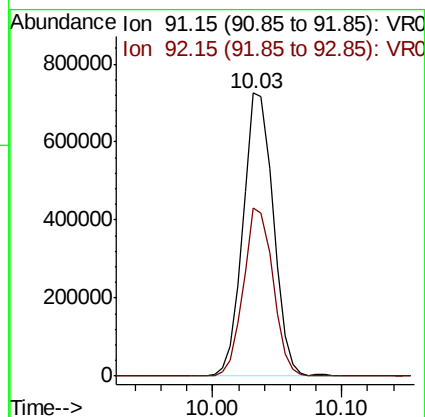
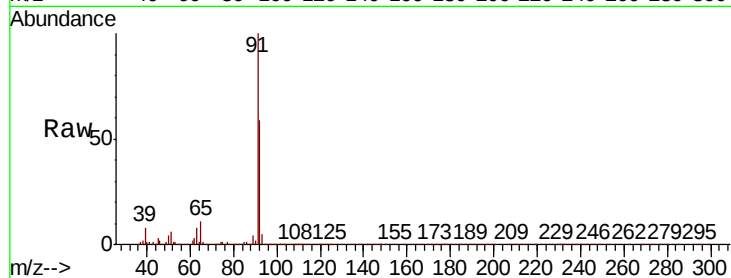
VSTD00504

Tot Ion: 91 Resp: 1172193

Ion Ratio Lower Upper

91 100

92 59.5 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 4.47 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR025738.D

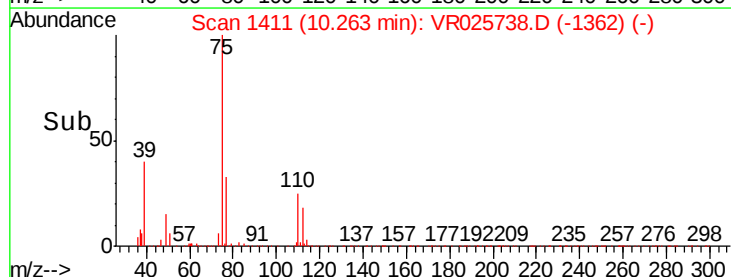
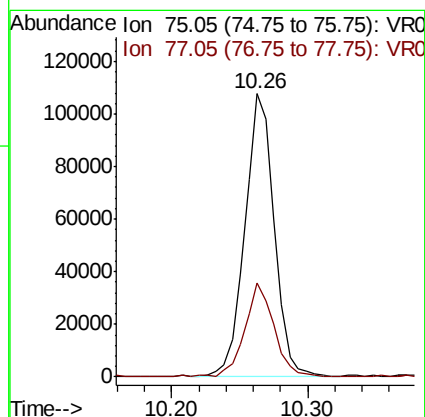
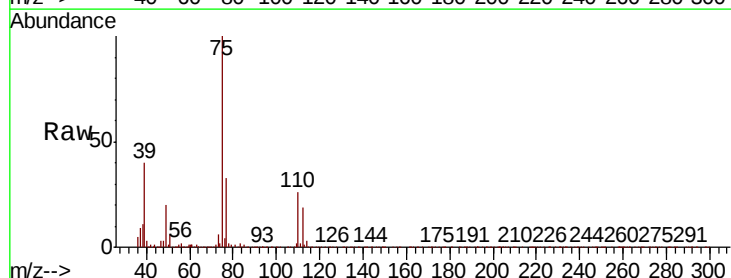
Acq: 14 Sep 2018 19:46

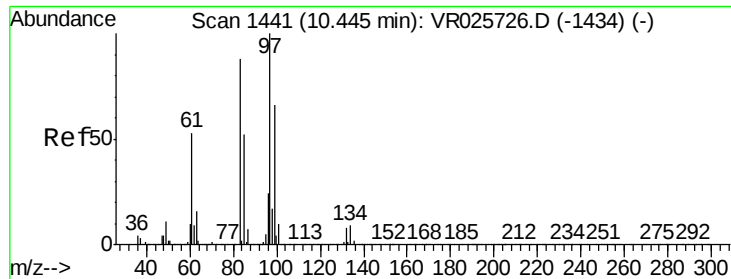
Tgt Ion: 75 Resp: 161438

Ion Ratio Lower Upper

75 100

77 33.1 20.7 38.5

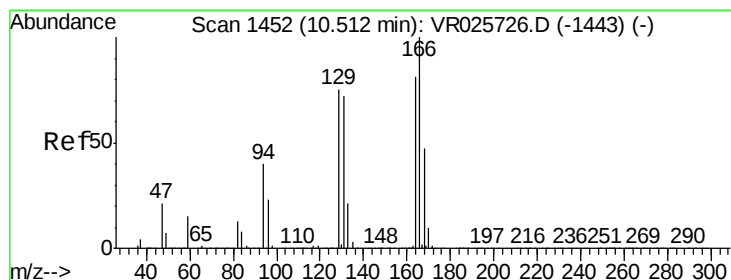
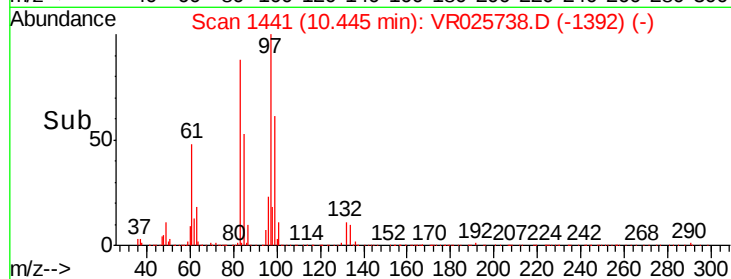
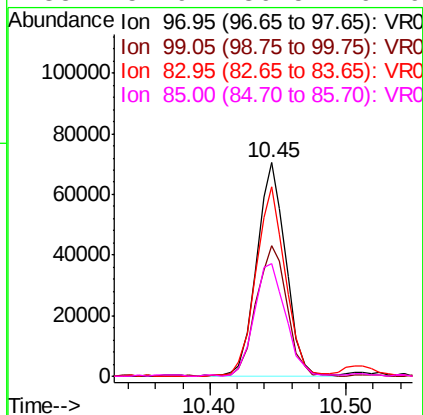
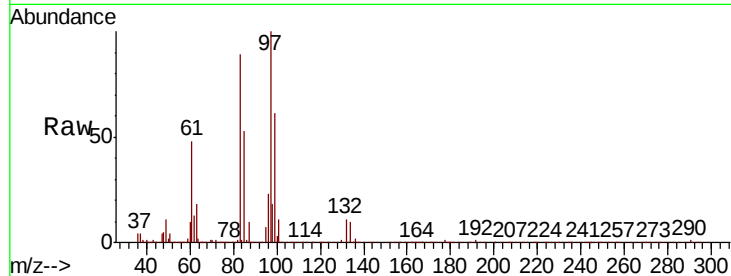




#45
 1,1,2-Trichloroethane
 Concen: 4.51 ug/L
 RT: 10.45 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

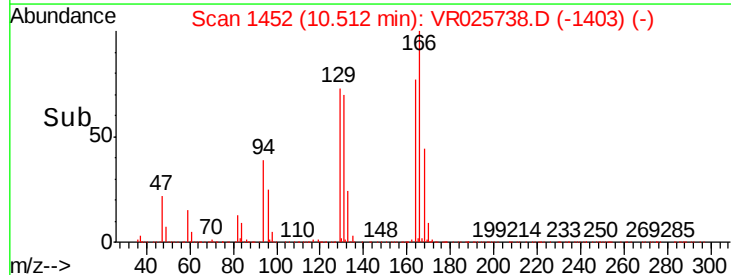
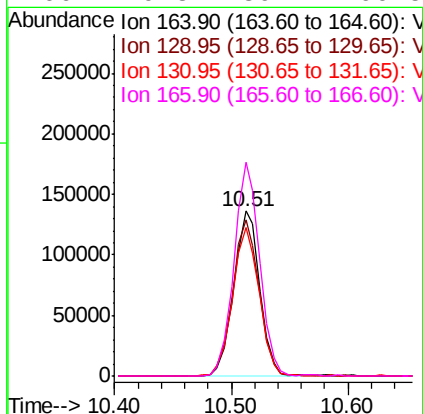
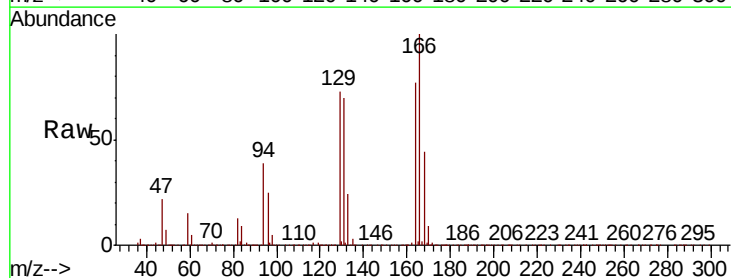
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00504

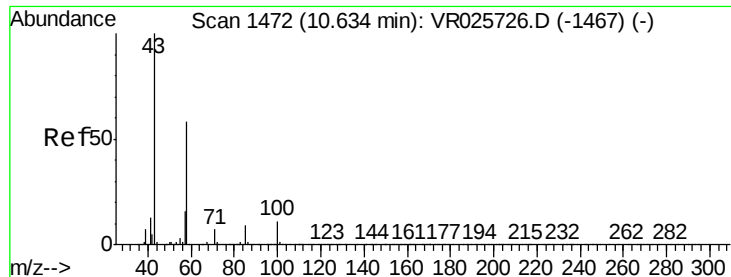
Tot Ion:	97	Resp:	106074
Ion	Ratio	Lower	Upper
97	100		
99	61.4	41.3	76.7
83	88.9	55.4	102.8
85	52.9	36.5	67.9



#47
 Tetrachloroethene
 Concen: 4.80 ug/L
 RT: 10.51 min Scan# 1452
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Tgt Ion:	164	Resp:	212180
Ion	Ratio	Lower	Upper
164	100		
129	94.6	65.6	121.8
131	90.4	62.2	115.4
166	129.8	89.7	166.5

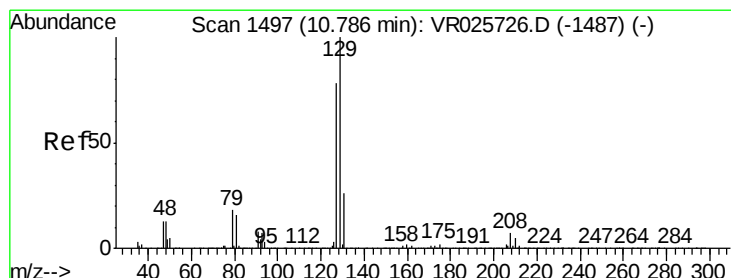
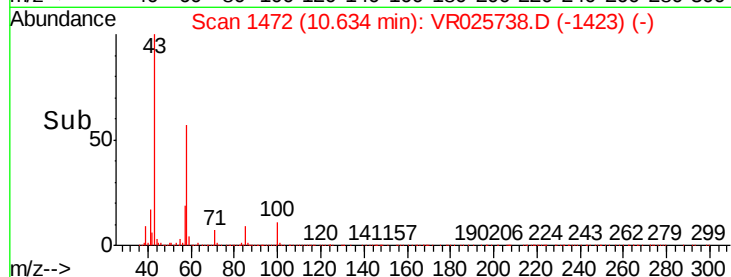
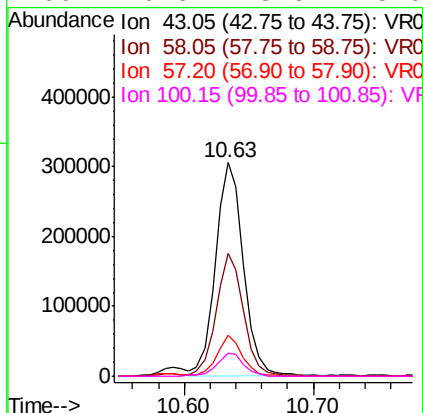
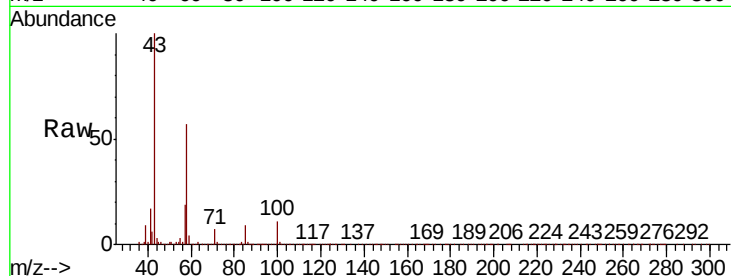




#48
2-Hexanone
Concen: 53.21 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

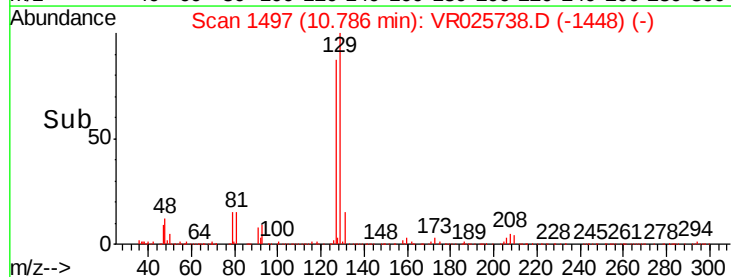
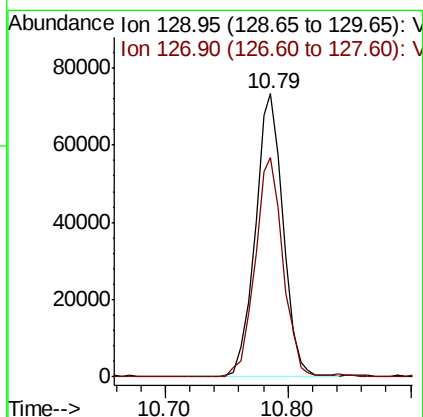
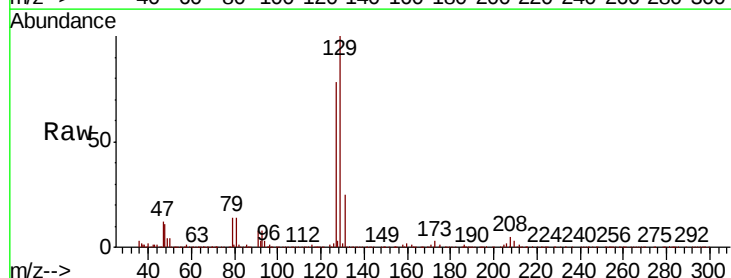
Instrument :
MSVOA_R
ClientSampleId :
VSTD00504

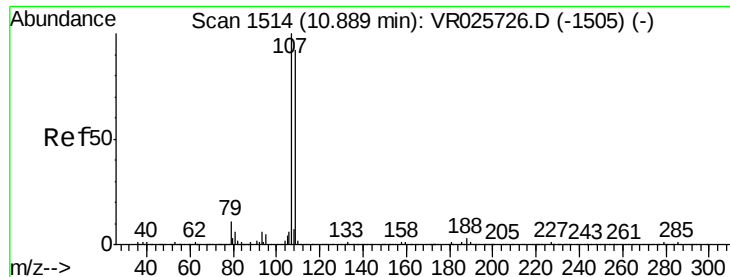
Tot Ion:	43	Resp:	462746
Ion	Ratio	Lower	Upper
43	100		
58	55.6	45.8	68.8
57	17.2	14.2	21.2
100	10.6	8.6	13.0



#49
Dibromochloromethane
Concen: 4.64 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VR025738.D
Acq: 14 Sep 2018 19:46

Tgt Ion:	129	Resp:	116083
Ion	Ratio	Lower	Upper
129	100		
127	77.5	54.1	100.5

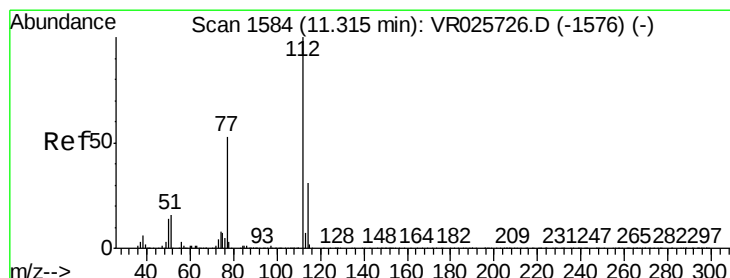
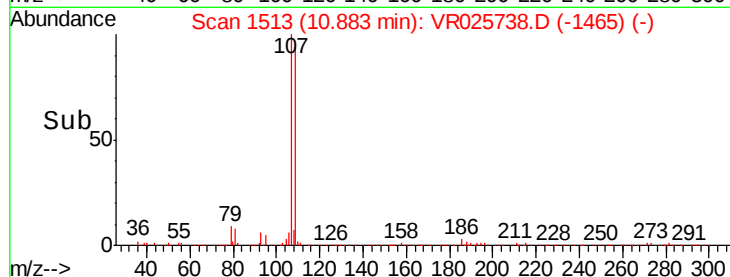
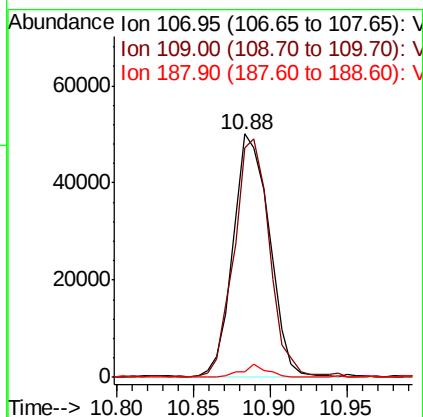
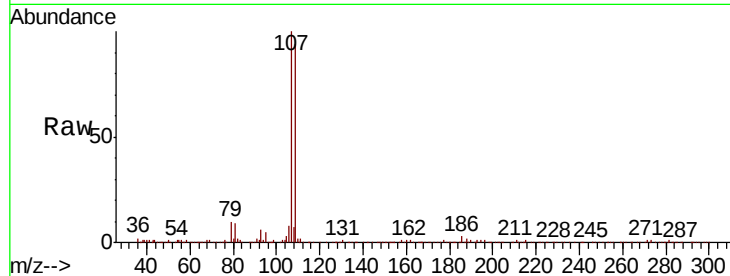




#50
 1,2-Dibromoethane
 Concen: 4.45 ug/L
 RT: 10.88 min Scan# 1513
 Delta R.T. -0.01 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

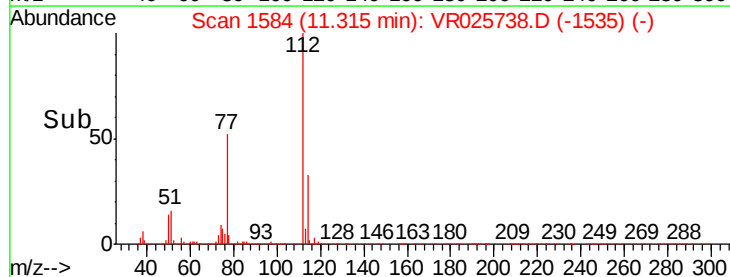
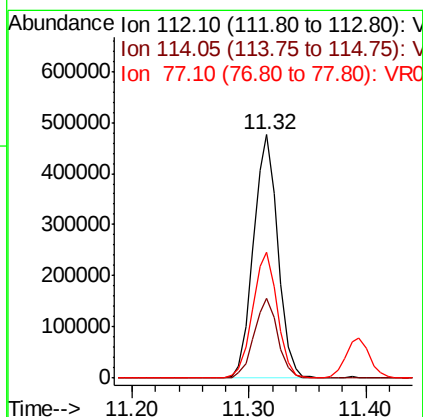
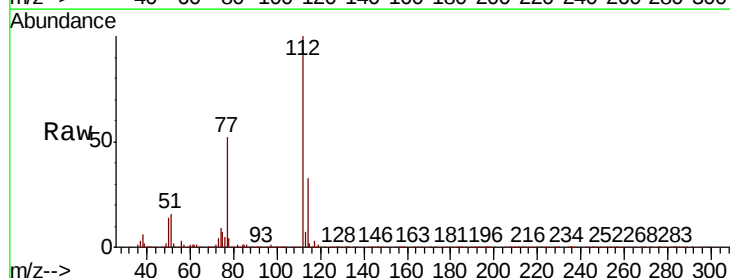
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00504

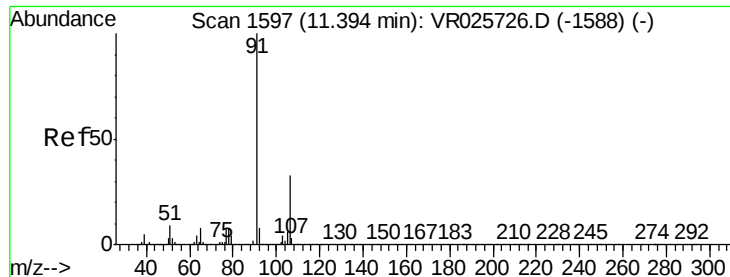
Tot Ion:107 Resp: 83032
 Ion Ratio Lower Upper
 107 100
 109 94.3 71.3 132.5
 188 2.2 3.4 5.0#



#51
 Chlorobenzene
 Concen: 4.83 ug/L
 RT: 11.32 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Tgt Ion:112 Resp: 691642
 Ion Ratio Lower Upper
 112 100
 114 32.7 21.8 40.6
 77 51.7 42.4 63.6





#52

Ethylbenzene

Concen: 5.23 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

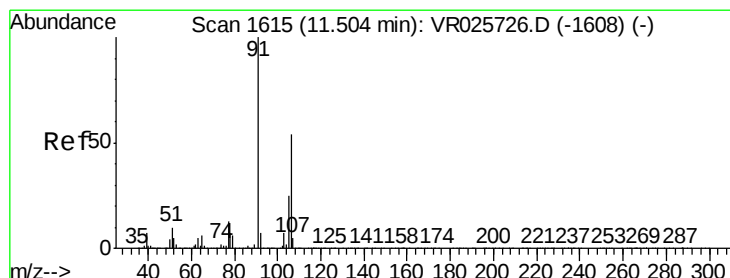
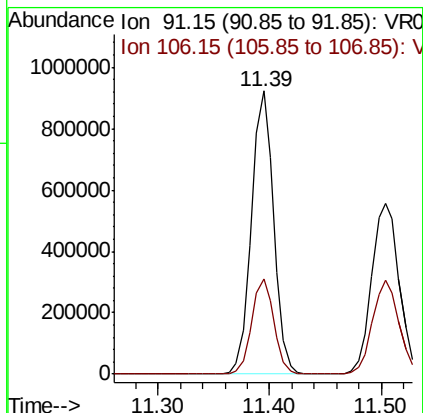
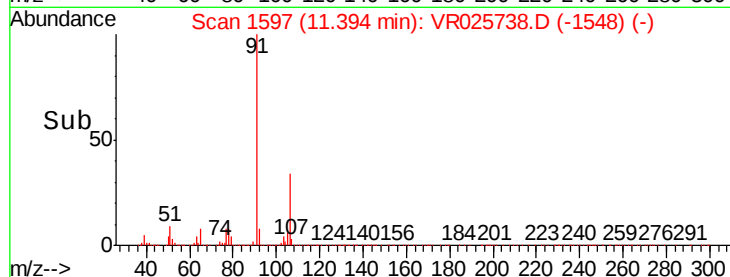
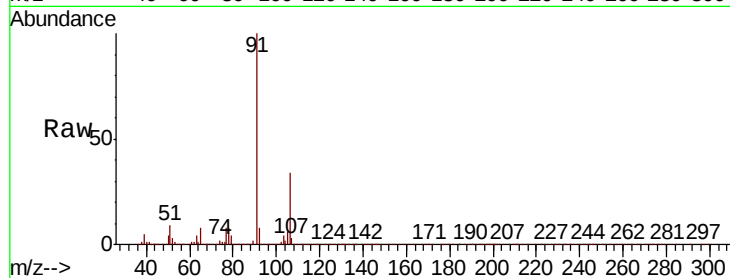
VSTD00504

Tot Ion: 91 Resp: 1283839

Ion Ratio Lower Upper

91 100

106 33.7 22.7 42.3



#53

m,p-Xylene

Concen: 5.13 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR025738.D

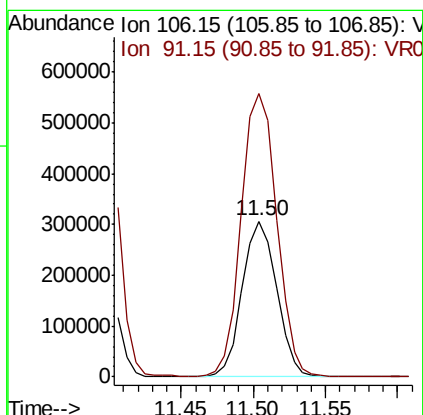
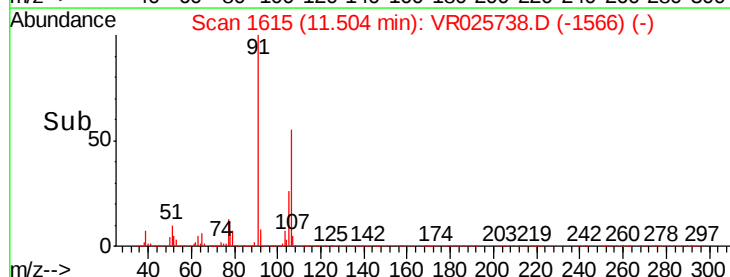
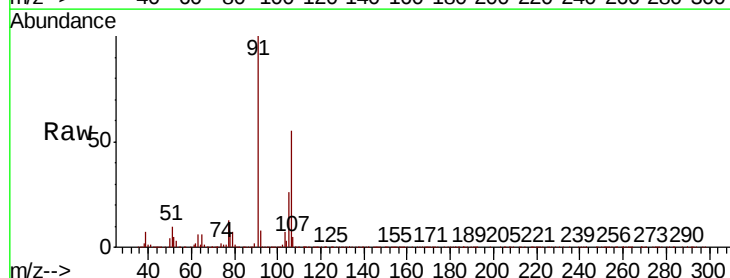
Acq: 14 Sep 2018 19:46

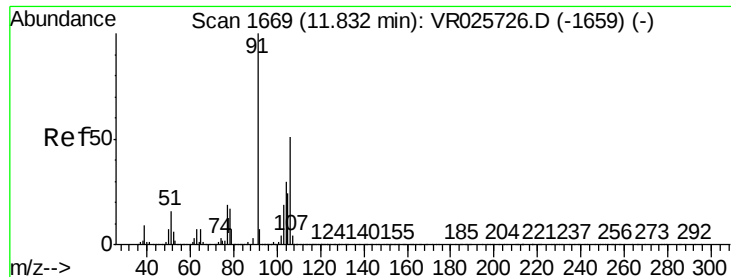
Tgt Ion: 106 Resp: 506130

Ion Ratio Lower Upper

106 100

91 182.0 128.7 238.9





#54

o-Xylene

Concen: 5.31 ug/L

RT: 11.83 min Scan# 1669

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

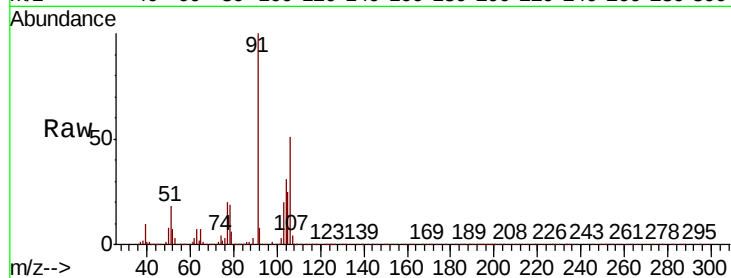
VSTD00504

Tot Ion:106 Resp: 462247

Ion Ratio Lower Upper

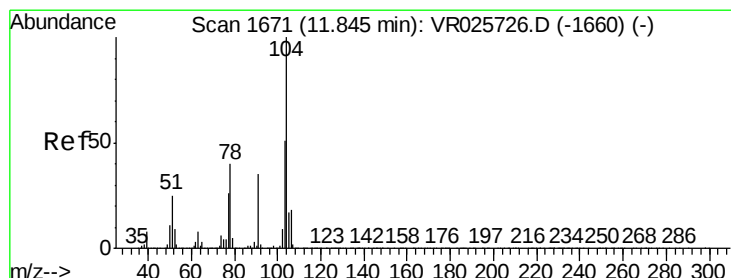
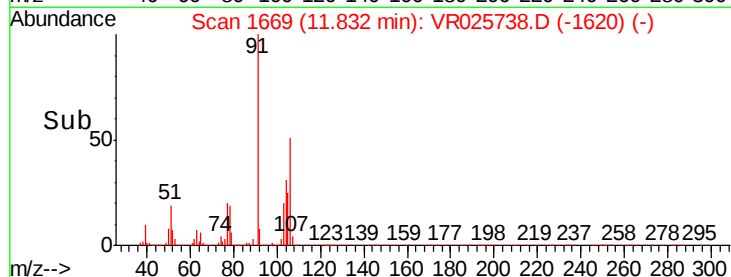
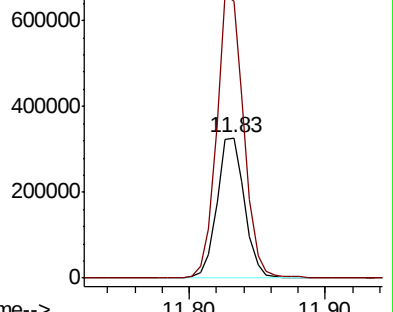
106 100

91 196.9 139.2 258.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 5.30 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VR025738.D

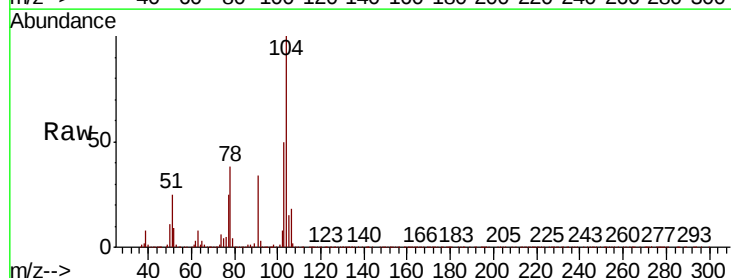
Acq: 14 Sep 2018 19:46

Tgt Ion:104 Resp: 741914

Ion Ratio Lower Upper

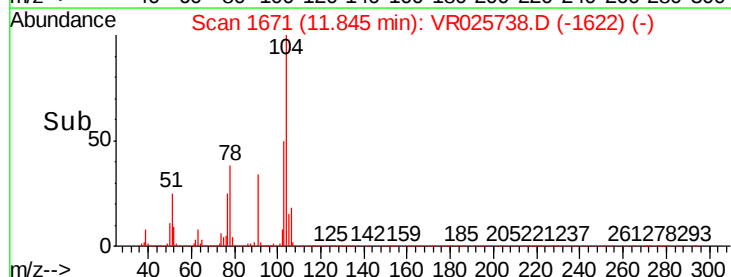
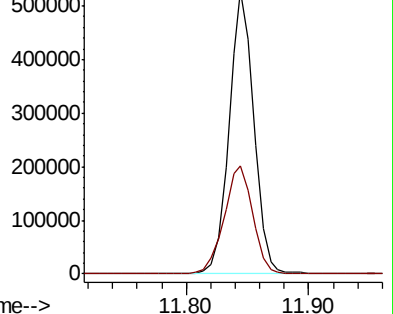
104 100

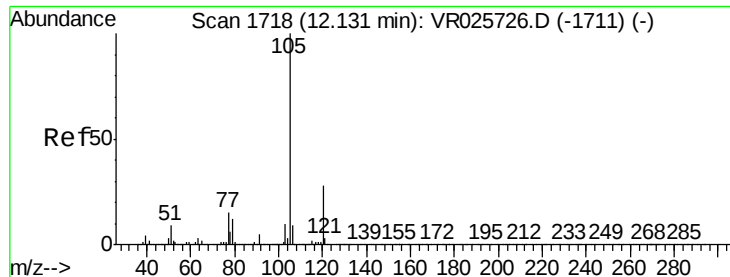
78 38.3 27.6 51.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0





#56

Isopropylbenzene

Concen: 5.66 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00504

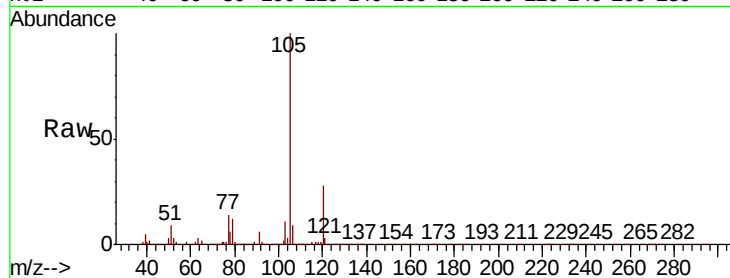
Tot Ion:105 Resp: 1227998

Ion Ratio Lower Upper

105 100

120 28.1 22.8 34.2

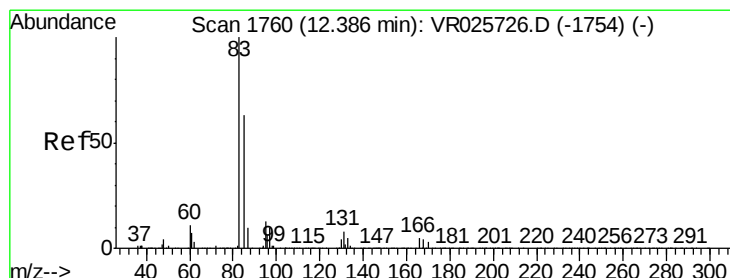
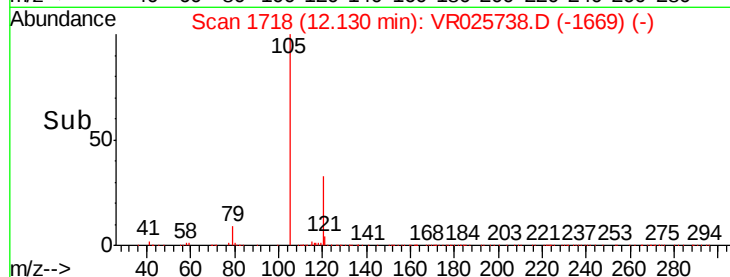
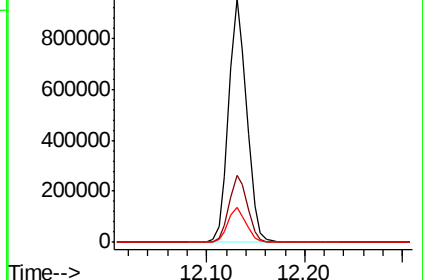
77 14.3 11.8 17.8



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.83 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

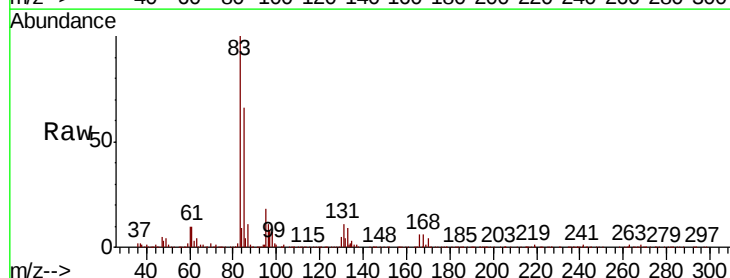
Tgt Ion: 83 Resp: 110638

Ion Ratio Lower Upper

83 100

85 65.6 47.9 88.9

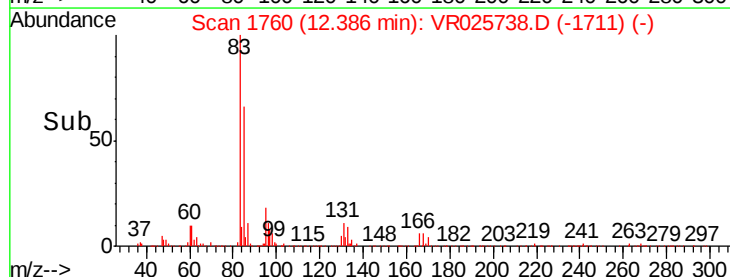
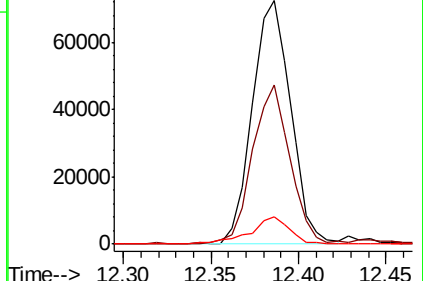
131 11.3 8.2 12.4

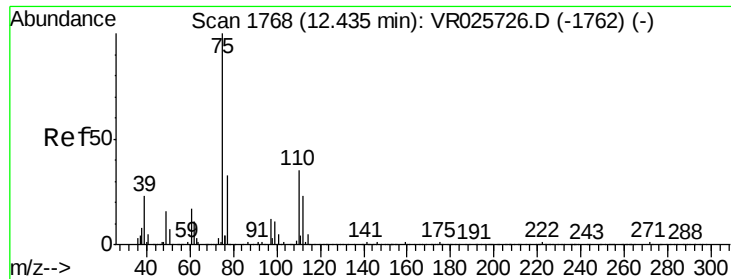


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V

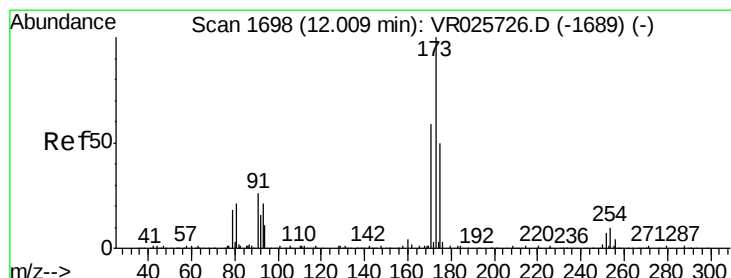
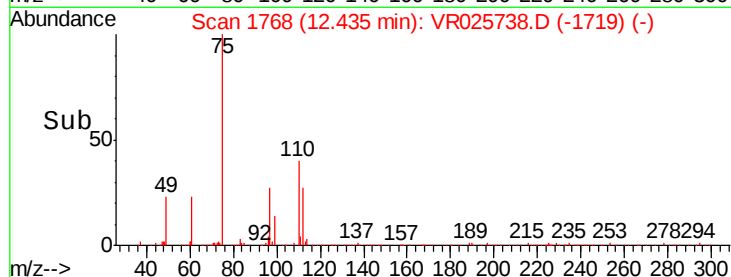
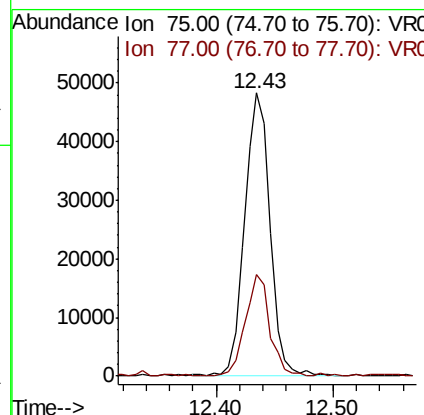
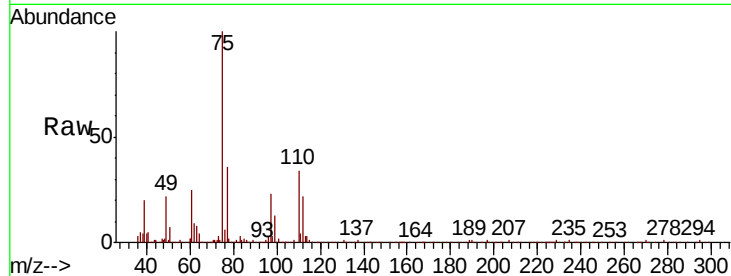




#59
 1,2,3-Trichloropropane
 Concen: 4.76 ug/L
 RT: 12.43 min Scan# 1768
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

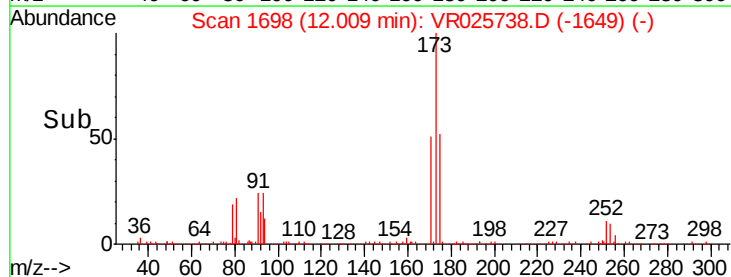
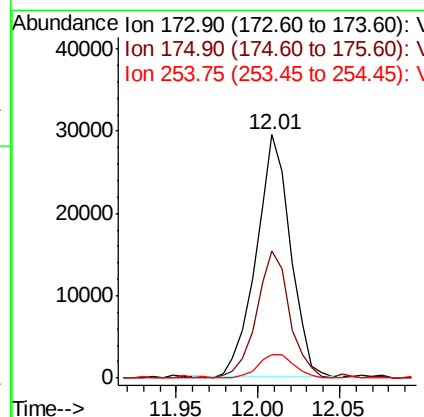
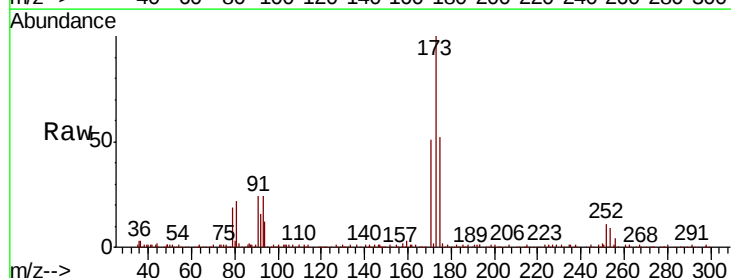
Instrument :
 MSVOA_R
 ClientSampled :
 VSTD00504

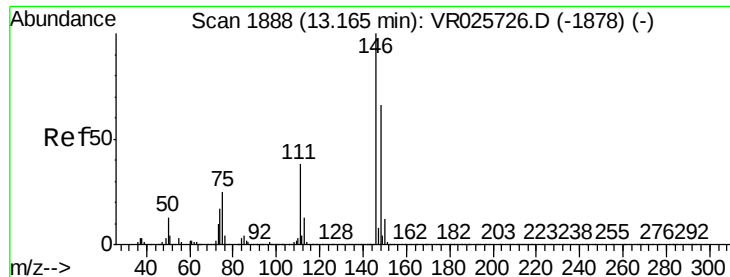
Tot Ion: 75 Resp: 73279
 Ion Ratio Lower Upper
 75 100
 77 34.5 27.8 41.8



#61
 Bromoform
 Concen: 3.70 ug/L
 RT: 12.01 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Tgt Ion:173 Resp: 42852
 Ion Ratio Lower Upper
 173 100
 175 50.9 41.9 62.9
 254 10.2 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 4.57 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00504

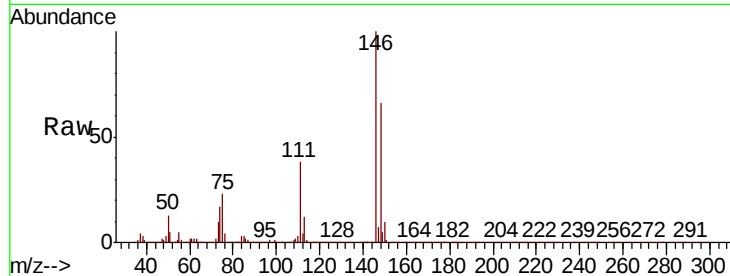
Tot Ion:146 Resp: 385747

Ion Ratio Lower Upper

146 100

111 38.3 25.4 47.2

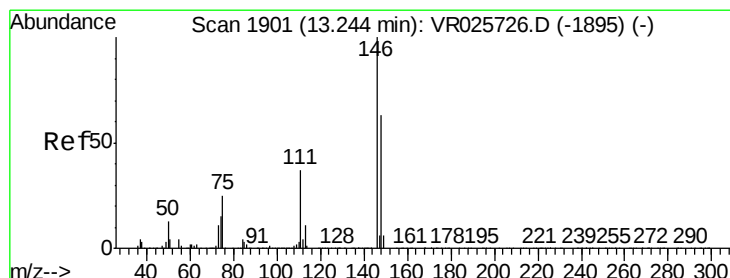
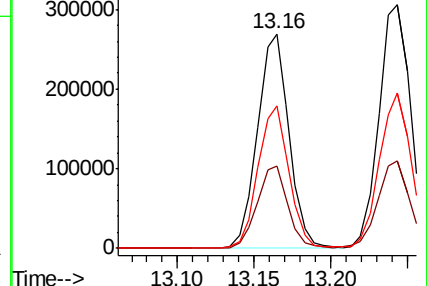
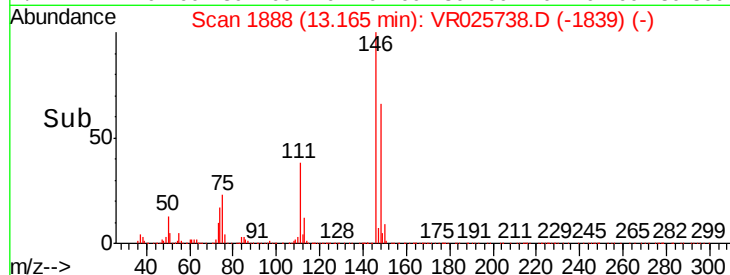
148 66.2 46.9 87.1



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



#63

1,4-Dichlorobenzene

Concen: 4.62 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

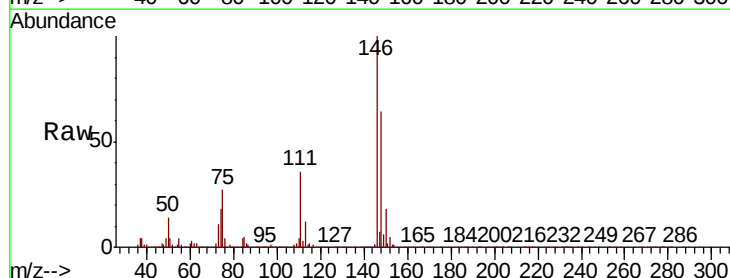
Tgt Ion:146 Resp: 444175

Ion Ratio Lower Upper

146 100

111 36.1 26.2 48.6

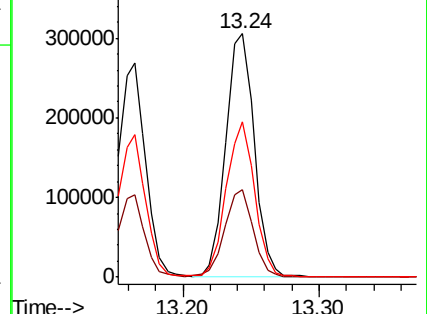
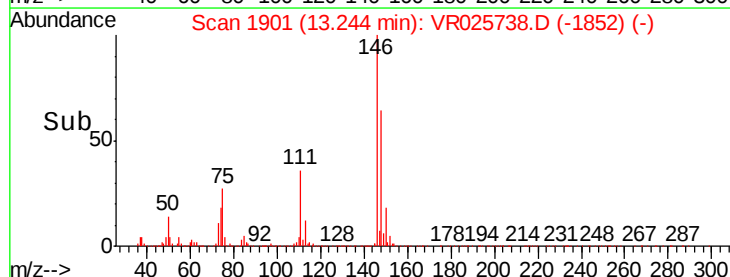
148 63.5 42.7 79.3

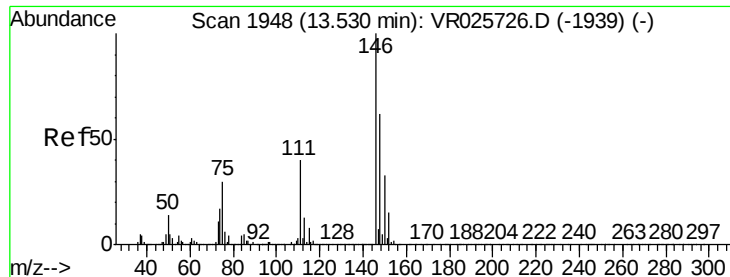


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

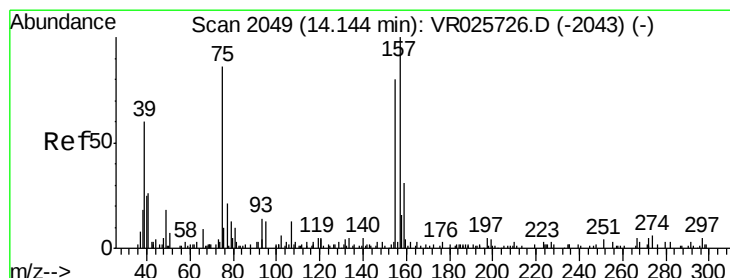
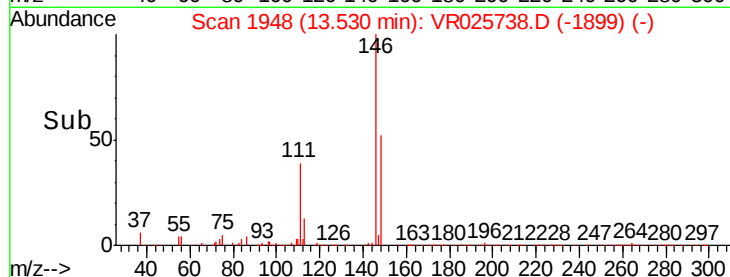
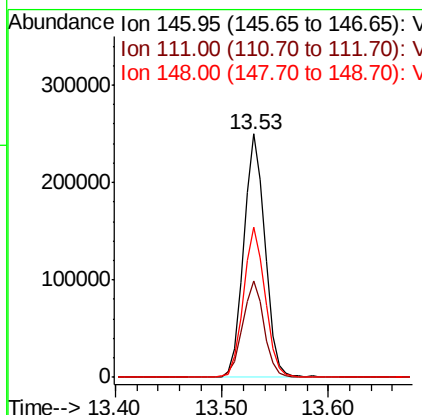
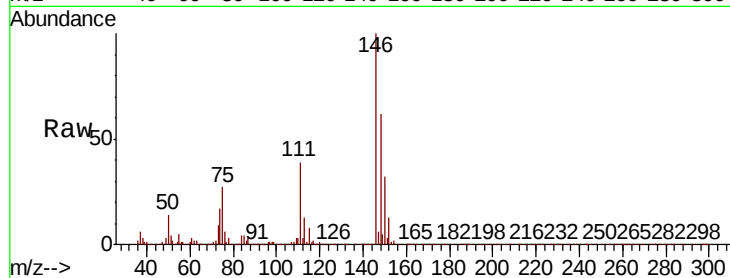




#65
 1,2-Dichlorobenzene
 Concen: 4.83 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

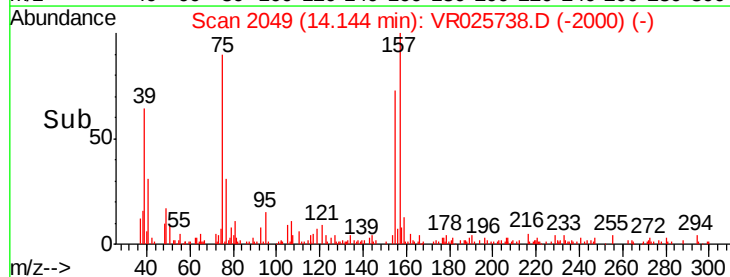
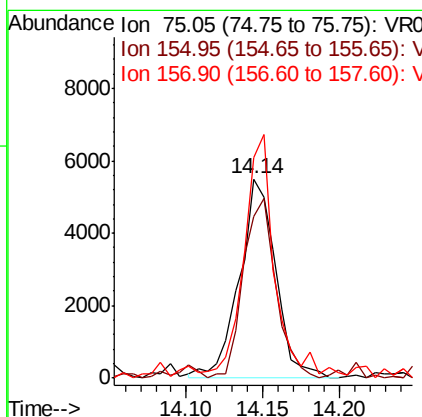
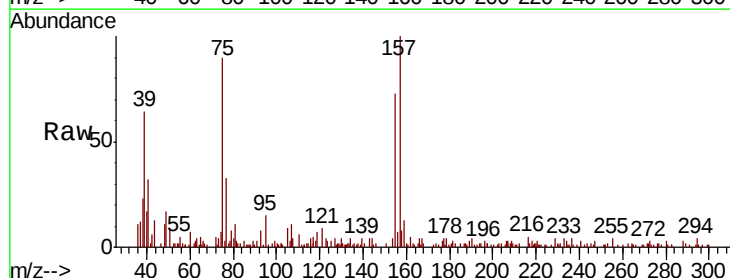
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00504

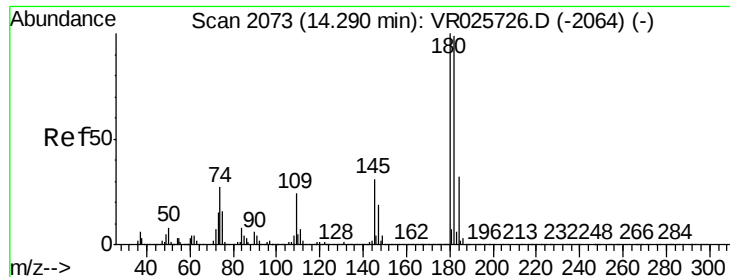
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	35.2	52.8
148	61.5	52.1	78.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.21 ug/L
 RT: 14.14 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.3	79.3	118.9
157	110.8	81.4	122.2

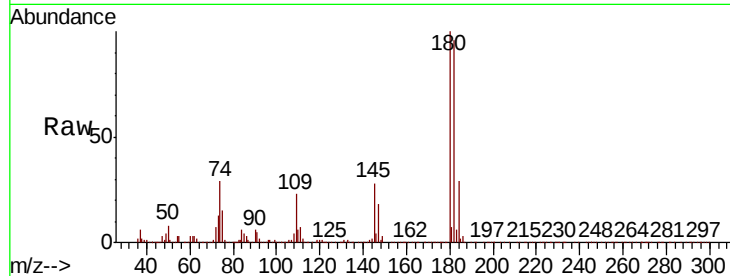




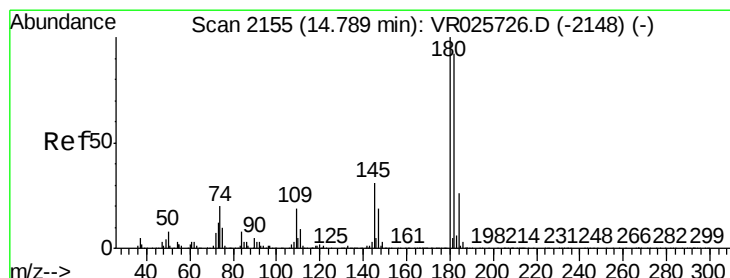
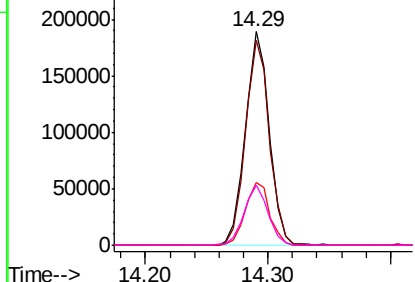
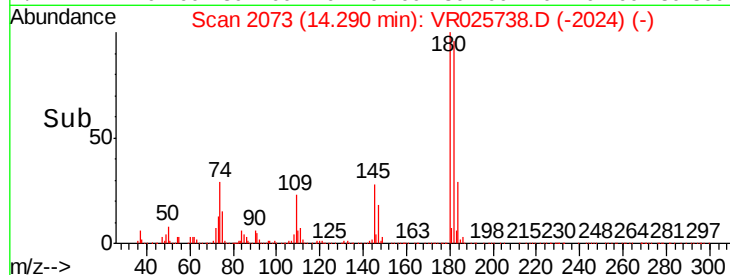
#67
 1,3,5-Trichlorobenzene
 Concen: 5.08 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00504

Tot Ion:	180	Resp:	255009
Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.9	113.9
184	30.1	24.0	36.0
145	28.0	23.0	34.4

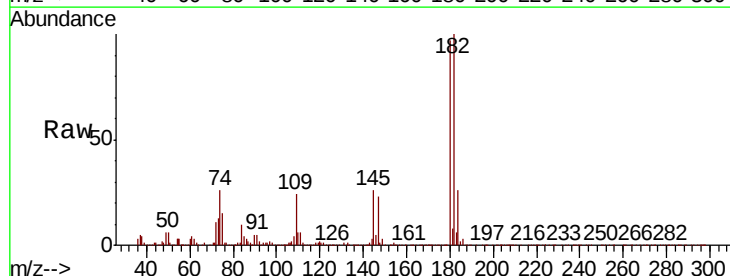


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

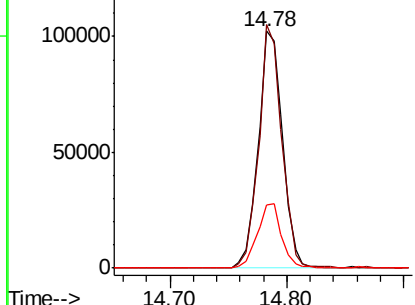
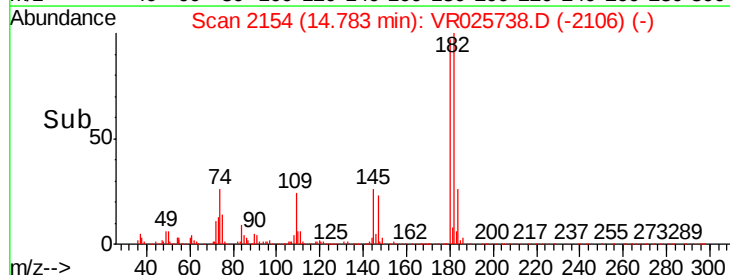


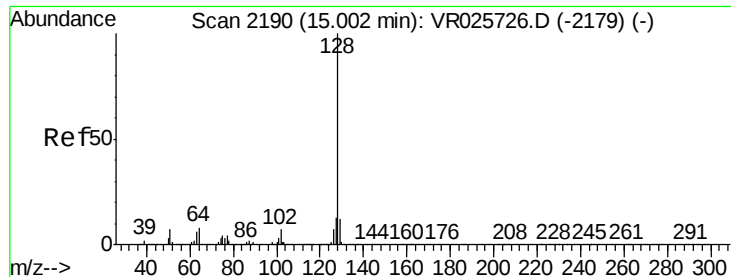
#68
 1,2,4-trichlorobenzene
 Concen: 4.80 ug/L
 RT: 14.78 min Scan# 2154
 Delta R.T. -0.01 min
 Lab File: VR025738.D
 Acq: 14 Sep 2018 19:46

Tgt Ion:	180	Resp:	147997
Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.6	115.0
145	27.0	24.8	37.2



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.40 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

Instrument :

MSVOA_R

ClientSampled :

VSTD00504

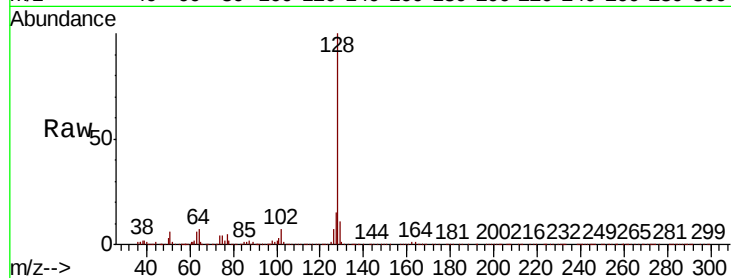
Tot Ion:128 Resp: 151513

Ion Ratio Lower Upper

128 100

127 14.2 10.3 15.5

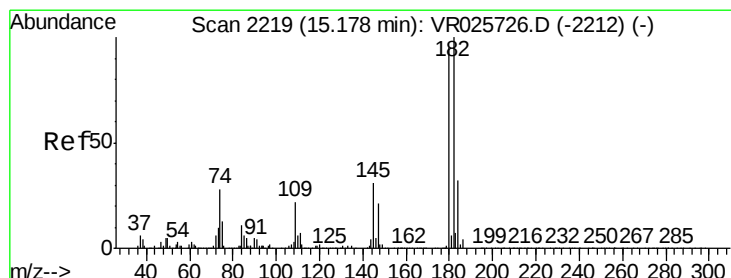
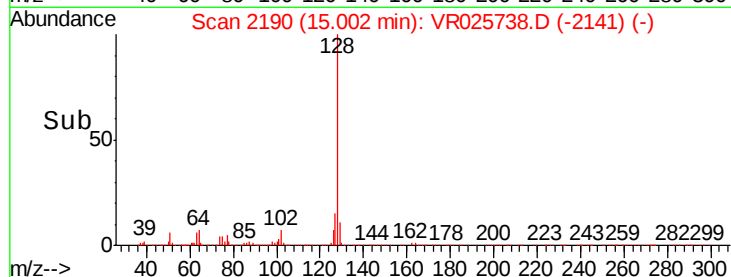
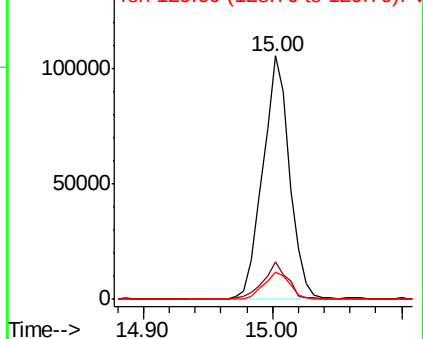
129 11.2 9.0 13.6



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: 4.99 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VR025738.D

Acq: 14 Sep 2018 19:46

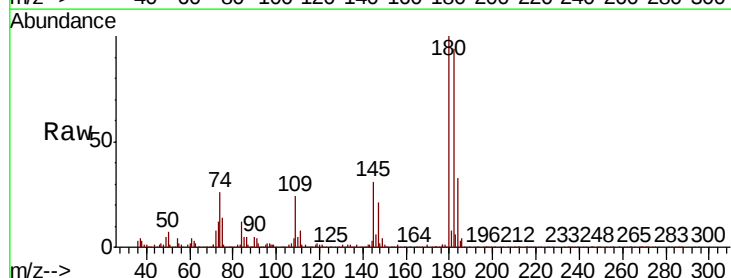
Tgt Ion:180 Resp: 121751

Ion Ratio Lower Upper

180 100

182 95.6 80.2 120.4

145 32.0 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

