

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091318\
 Data File : VR025724.D
 Acq On : 13 Sep 2018 20:58
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00502

Quant Time: Sep 14 06:58:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR090718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 14 06:42:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	820874	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	710870	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	303345	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	131072	3.67	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.40%
7) Chloroethane-d5	2.63	69	119714	4.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.00%
11) 1,1-Dichloroethene-d2	3.63	63	383606	3.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.60%
20) 2-Butanone-d5	6.59	46	194608	54.02	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.04%
24) Chloroform-d	7.20	84	361230	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
26) 1,2-Dichloroethane-d4	7.90	65	126653	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
32) Benzene-d6	7.85	84	833954	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.80%
36) 1,2-Dichloropropane-d6	8.90	67	230864	4.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.20%
41) Toluene-d8	9.97	98	813960	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.60%
43) trans-1,3-Dichloropropene-	10.24	79	48761	3.82	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.40%
46) 2-Hexanone-d5	10.59	63	206386	54.01	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.02%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	106242	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
64) 1,2-Dichlorobenzene-d4	13.51	152	177746	4.13	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.84	85	166277	3.97	ug/L	96
3) Chloromethane	2.01	50	201219	3.92	ug/L	98
5) Vinyl chloride	2.17	62	209508	4.10	ug/L	100
6) Bromomethane	2.52	94	146648	4.01	ug/L	99
8) Chloroethane	2.66	64	125246	4.18	ug/L	96
9) Trichlorofluoromethane	2.93	101	132596	1.41	ug/L #	16
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	218258	4.30	ug/L	97
12) 1,1-Dichloroethene	3.66	96	218508	4.08	ug/L	84
13) Acetone	3.70	43	141013	58.08	ug/L	93
14) Carbon disulfide	3.97	76	489951	3.88	ug/L	98
15) Methyl Acetate	4.19	43	36766	4.25	ug/L #	77
16) Methylene chloride	4.40	84	200797	4.24	ug/L	97
17) Methyl tert-butyl Ether	4.90	73	284083	4.31	ug/L	98
18) trans-1,2-Dichloroethene	4.88	96	285065	4.36	ug/L	94
19) 1,1-Dichloroethane	5.69	63	426990	4.23	ug/L	95
21) 2-Butanone	6.69	43	285936	55.81	ug/L	97
22) cis-1,2-Dichloroethene	6.68	96	262634	4.61	ug/L #	100

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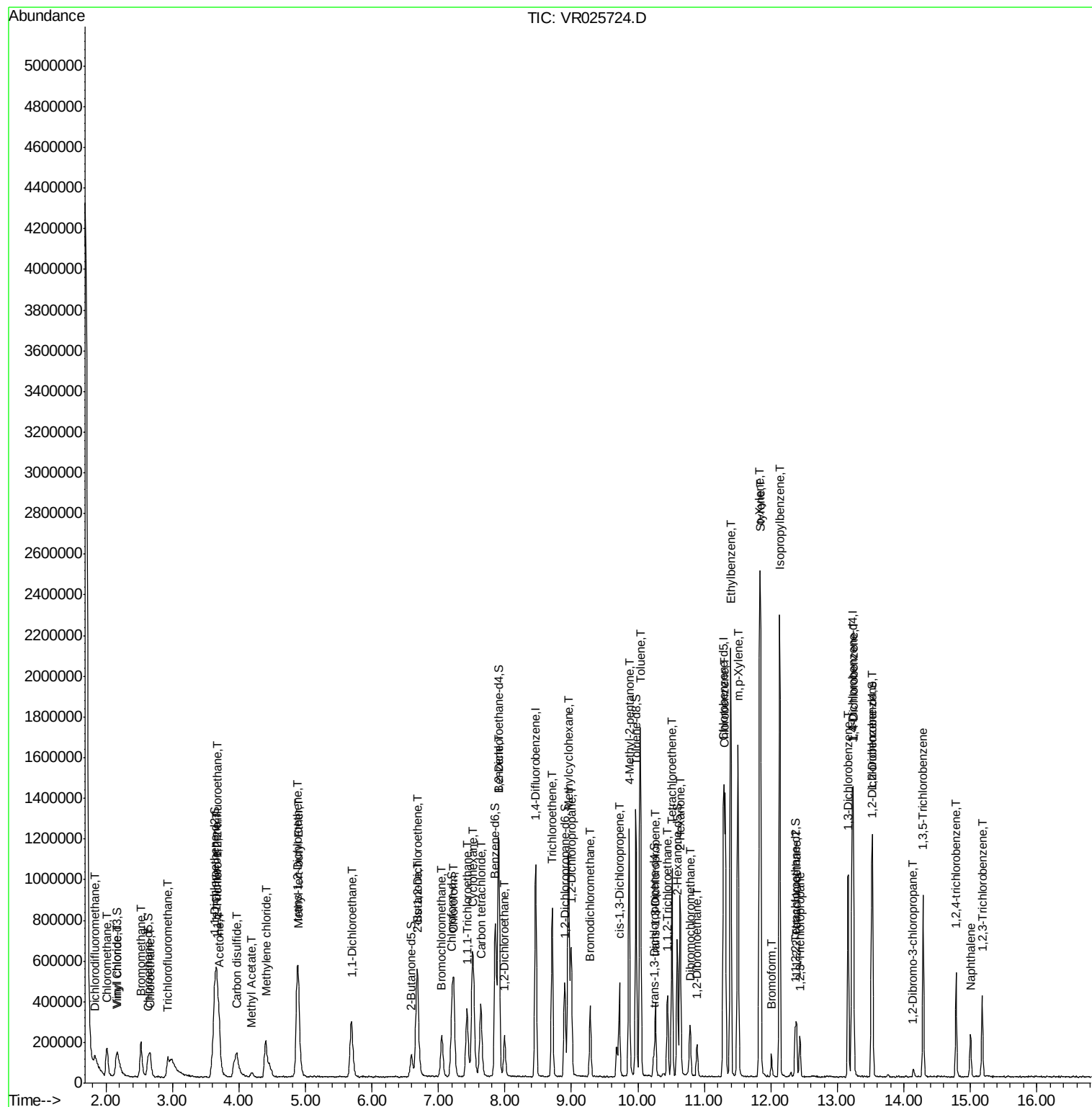
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.05	128	81851	4.19	ug/L #	80
25) Chloroform	7.23	83	396389	4.30	ug/L	98
27) 1,2-Dichloroethane	7.99	62	163125	4.48	ug/L	99
29) 1,1,1-Trichloroethane	7.43	97	290903	4.11	ug/L	98
30) Cyclohexane	7.52	56	378555	4.45	ug/L	96
31) Carbon tetrachloride	7.63	117	290064	4.23	ug/L	97
33) Benzene	7.91	78	1112902	4.39	ug/L	100
34) Trichloroethene	8.71	95	269424	4.39	ug/L	95
35) Methylcyclohexane	8.95	83	445243	4.70	ug/L	98
37) 1,2-Dichloropropane	9.00	63	251889	4.41	ug/L	99
38) Bromodichloromethane	9.28	83	218760	4.27	ug/L	95
39) cis-1,3-Dichloropropene	9.72	75	251585	4.31	ug/L	97
40) 4-Methyl-2-pentanone	9.87	43	741318	52.53	ug/L	98
42) Toluene	10.04	91	1206603	4.65	ug/L	99
44) trans-1,3-Dichloropropene	10.26	75	181594	4.42	ug/L	93
45) 1,1,2-Trichloroethane	10.45	97	115400	4.31	ug/L	91
47) Tetrachloroethene	10.51	164	216012	4.30	ug/L	96
48) 2-Hexanone	10.63	43	495446	50.06	ug/L	99
49) Dibromochloromethane	10.79	129	119368	4.19	ug/L	98
50) 1,2-Dibromoethane	10.89	107	93172	4.39	ug/L #	88
51) Chlorobenzene	11.32	112	701325	4.30	ug/L	99
52) Ethylbenzene	11.39	91	1300181	4.65	ug/L	99
53) m,p-Xylene	11.50	106	510035	4.54	ug/L	97
54) o-Xylene	11.83	106	475360	4.80	ug/L	97
55) Styrene	11.84	104	772713	4.85	ug/L	99
56) Isopropylbenzene	12.13	105	1246883	5.05	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	117891	4.53	ug/L	92
59) 1,2,3-Trichloropropane	12.43	75	75630	4.32	ug/L	96
61) Bromoform	12.01	173	41430	3.19	ug/L #	96
62) 1,3-Dichlorobenzene	13.16	146	392453	4.14	ug/L	95
63) 1,4-Dichlorobenzene	13.24	146	447962	4.16	ug/L	97
65) 1,2-Dichlorobenzene	13.53	146	345924	4.23	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.14	75	9434	3.92	ug/L #	81
67) 1,3,5-Trichlorobenzene	14.29	180	250350	4.44	ug/L	99
68) 1,2,4-trichlorobenzene	14.78	180	147843	4.28	ug/L	98
69) Naphthalene	15.00	128	155895	4.03	ug/L	99
70) 1,2,3-Trichlorobenzene	15.18	180	122145	4.47	ug/L	95

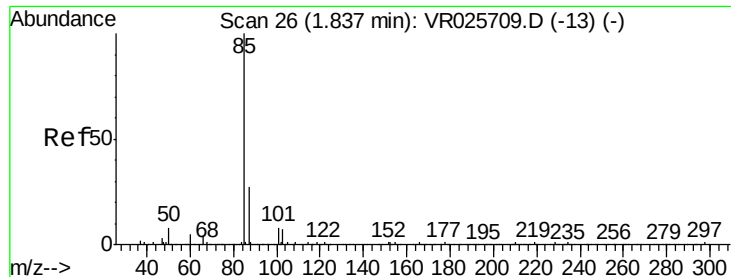
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 3.97 ug/L

RT: 1.84 min Scan# 26

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

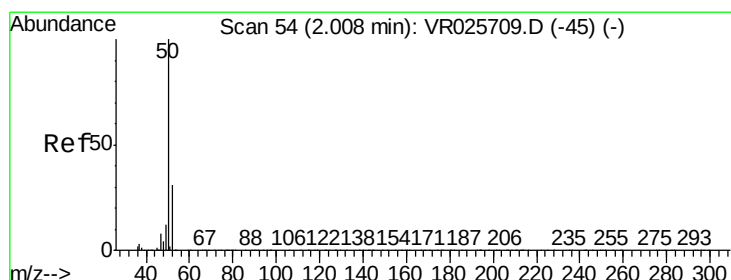
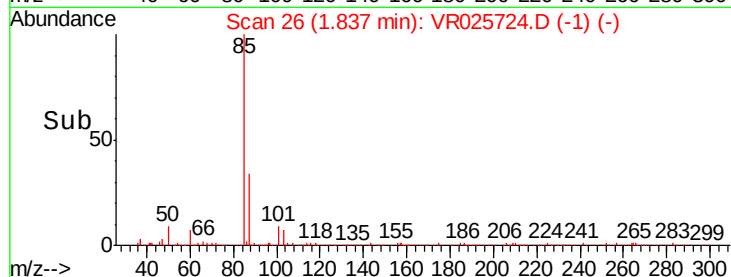
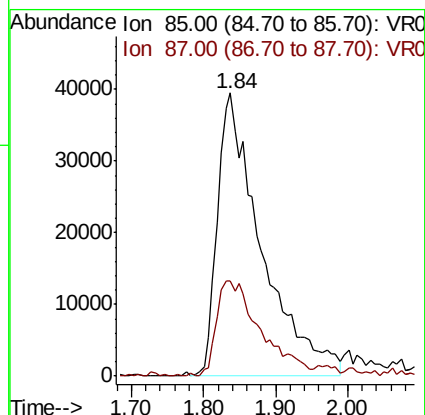
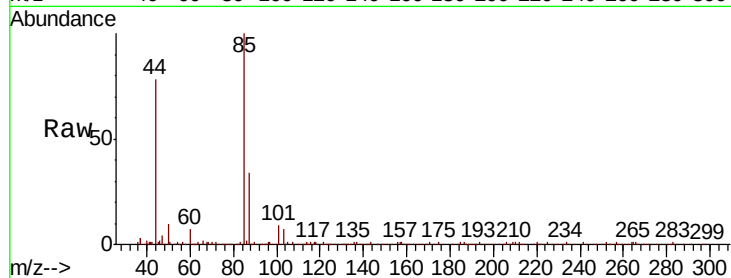
VSTD00502

Tot Ion: 85 Resp: 166277

Ion Ratio Lower Upper

85 100

87 34.0 25.3 37.9



#3

Chloromethane

Concen: 3.92 ug/L

RT: 2.01 min Scan# 55

Delta R.T. 0.01 min

Lab File: VR025724.D

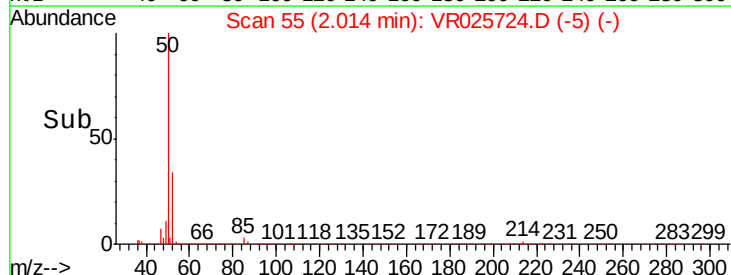
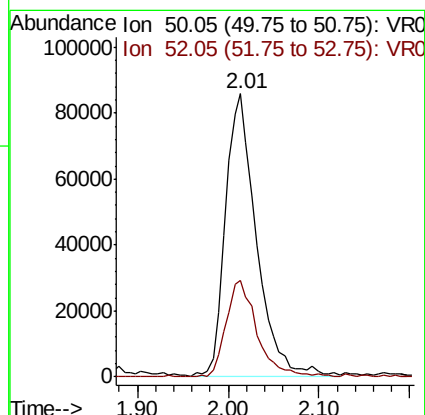
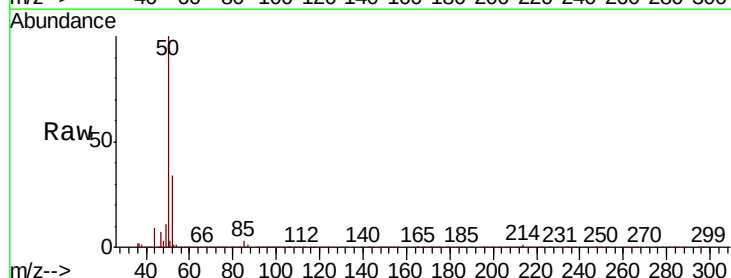
Acq: 13 Sep 2018 20:58

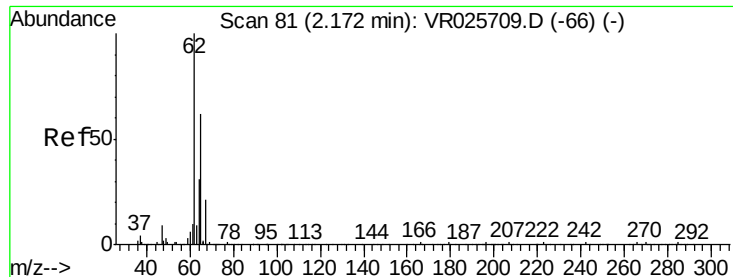
Tgt Ion: 50 Resp: 201219

Ion Ratio Lower Upper

50 100

52 34.1 24.6 45.8





#5

Vinyl chloride

Concen: 4.10 ug/L

RT: 2.17 min Scan# 81

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

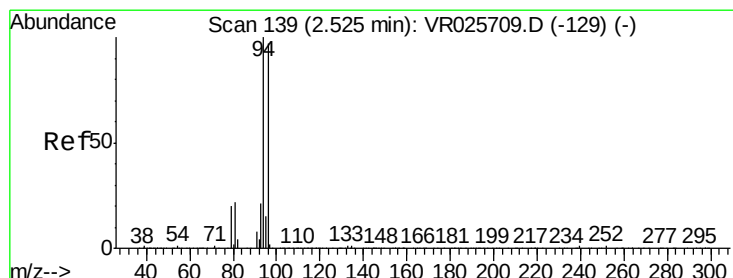
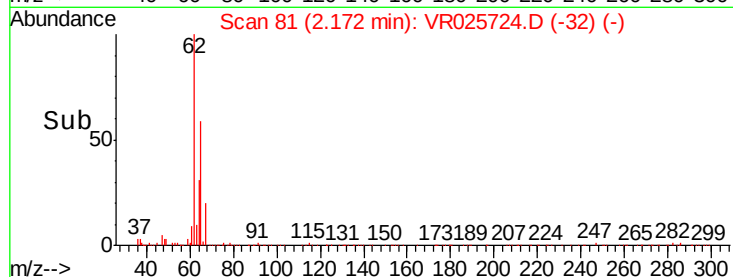
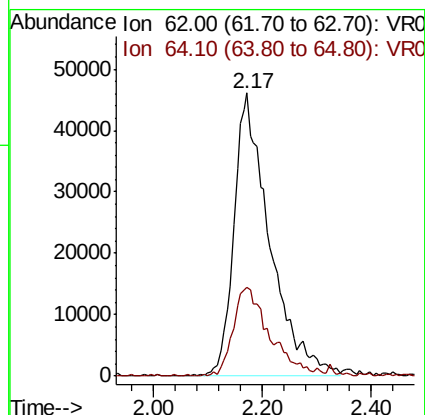
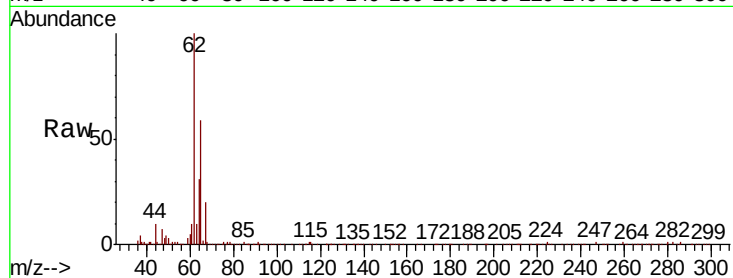
VSTD00502

Tot Ion: 62 Resp: 209508

Ion Ratio Lower Upper

62 100

64 31.3 22.0 40.8



#6

Bromomethane

Concen: 4.01 ug/L

RT: 2.52 min Scan# 139

Delta R.T. -0.00 min

Lab File: VR025724.D

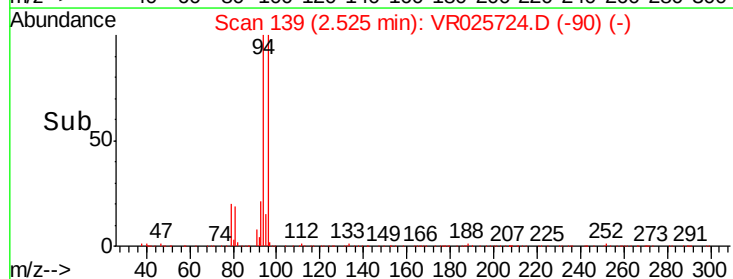
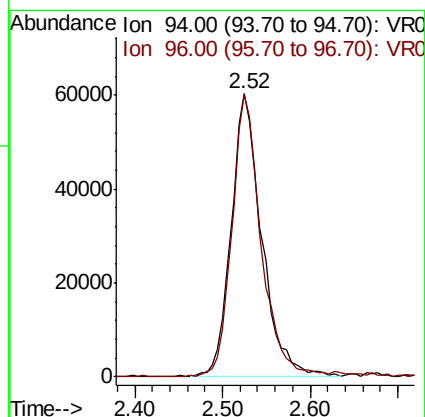
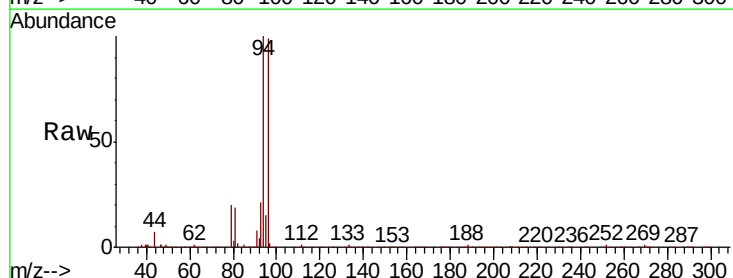
Acq: 13 Sep 2018 20:58

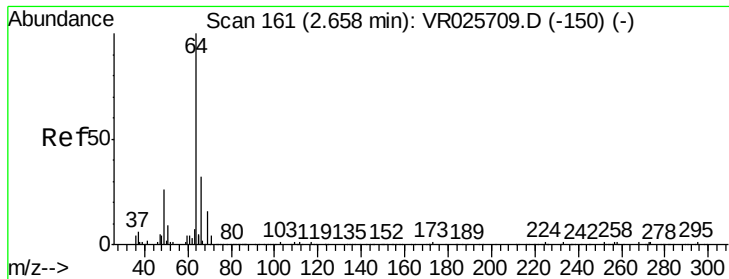
Tgt Ion: 94 Resp: 146648

Ion Ratio Lower Upper

94 100

96 99.4 68.9 127.9





#8

Chloroethane

Concen: 4.18 ug/L

RT: 2.66 min Scan# 162

Delta R.T. 0.01 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

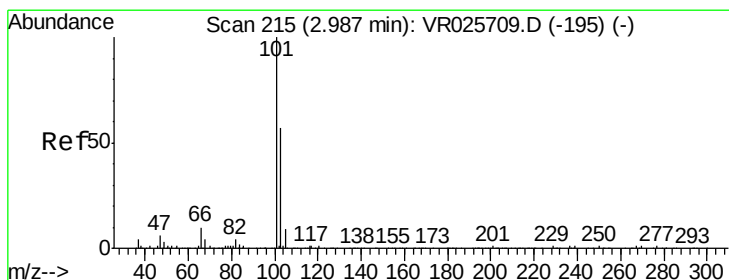
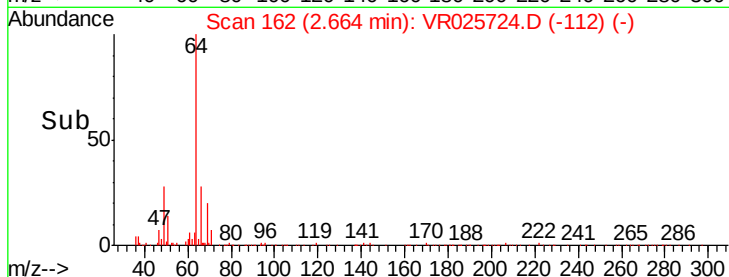
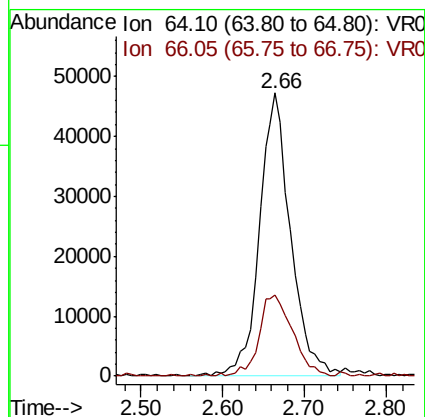
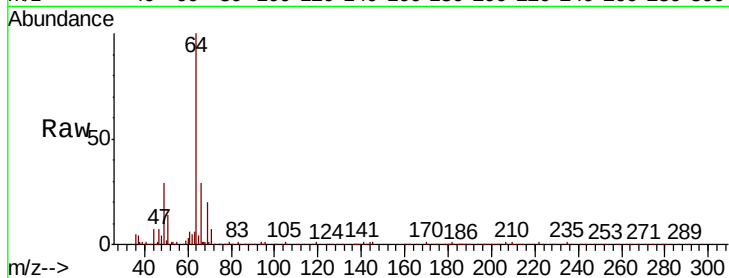
VSTD00502

Tot Ion: 64 Resp: 125246

Ion Ratio Lower Upper

64 100

66 28.9 21.8 40.6



#9

Trichlorofluoromethane

Concen: 1.41 ug/L

RT: 2.93 min Scan# 206

Delta R.T. -0.05 min

Lab File: VR025724.D

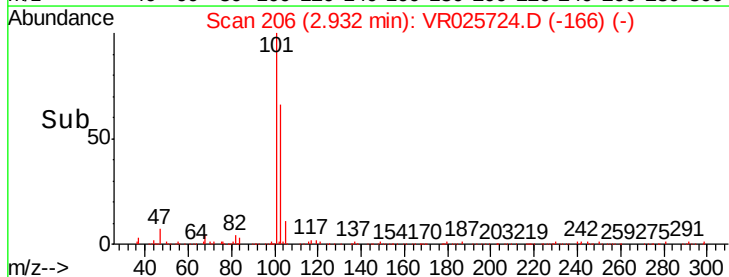
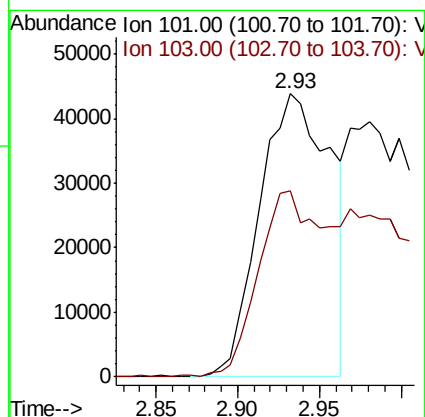
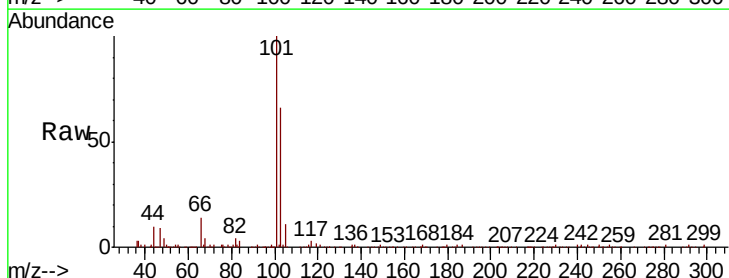
Acq: 13 Sep 2018 20:58

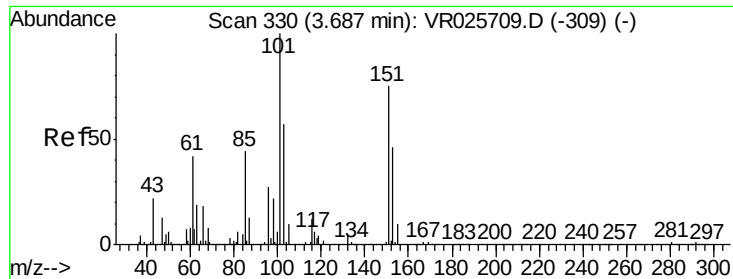
Tgt Ion: 101 Resp: 132596

Ion Ratio Lower Upper

101 100

103 52.6 13.2 19.8#





#10

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

Concen: 4.30 ug/L

RT: 3.68 min Scan# 329

Delta R.T. -0.01 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

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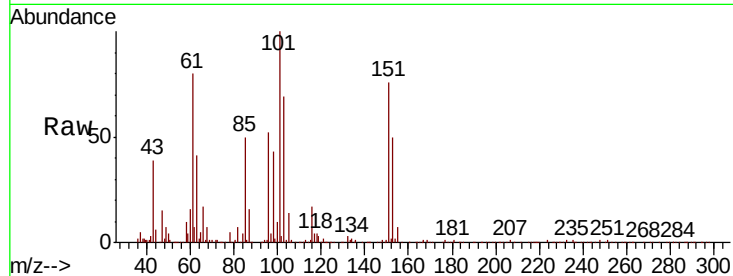
Tot Ion:101 Resp: 218258

Ion Ratio Lower Upper

101 100

85 47.3 38.1 57.1

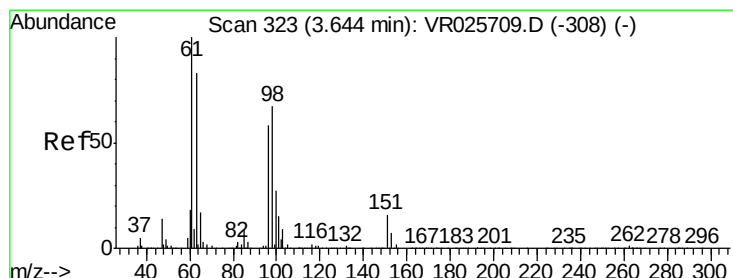
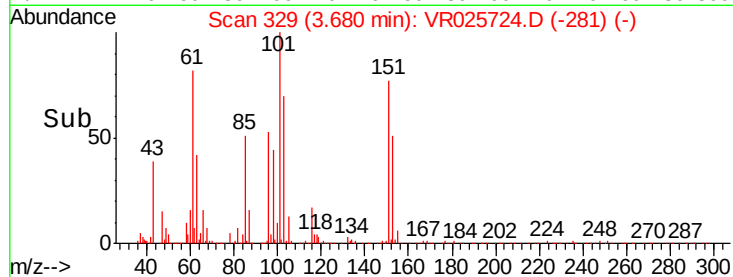
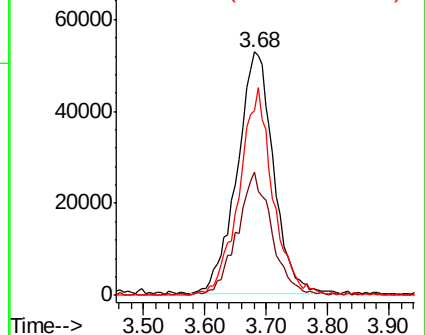
151 79.1 60.3 90.5



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: 4.08 ug/L

RT: 3.66 min Scan# 325

Delta R.T. 0.01 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

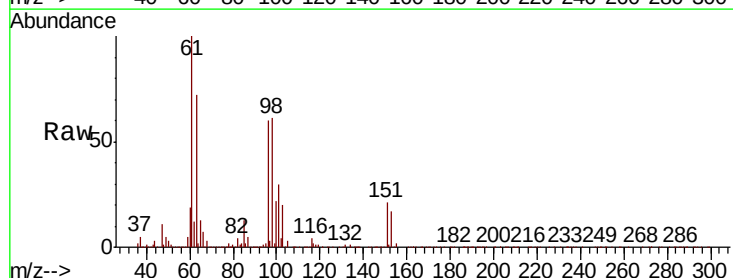
Tgt Ion: 96 Resp: 218508

Ion Ratio Lower Upper

96 100

61 166.3 128.4 238.4

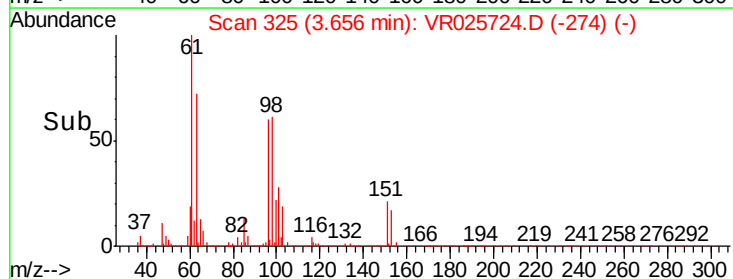
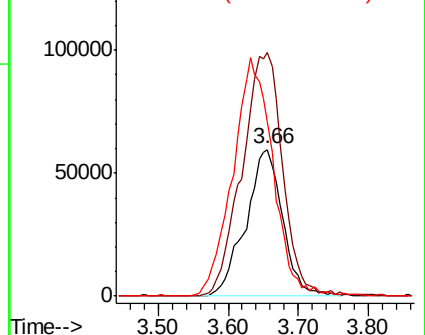
63 119.2 101.1 187.7

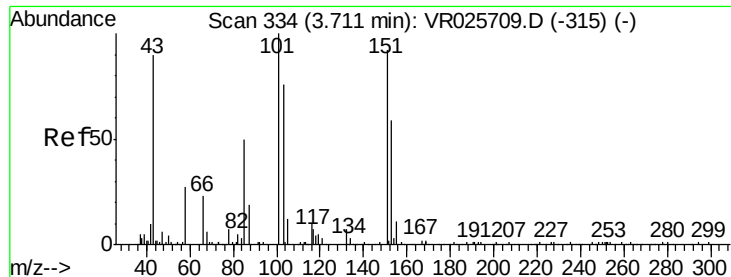


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0

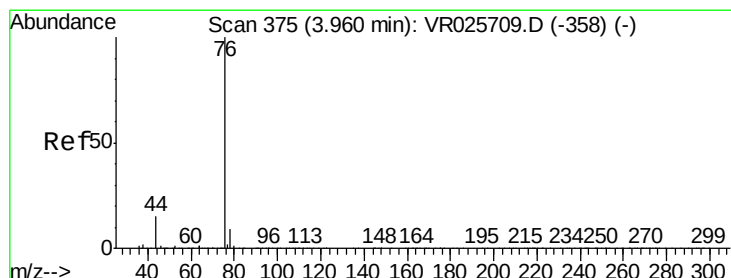
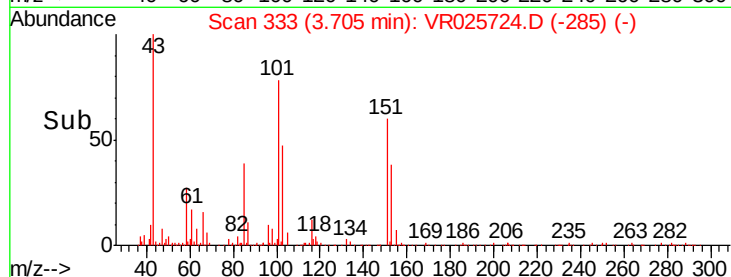
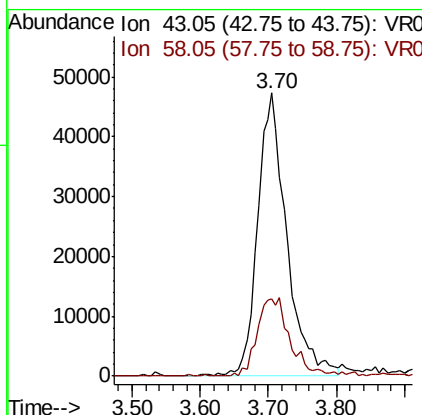
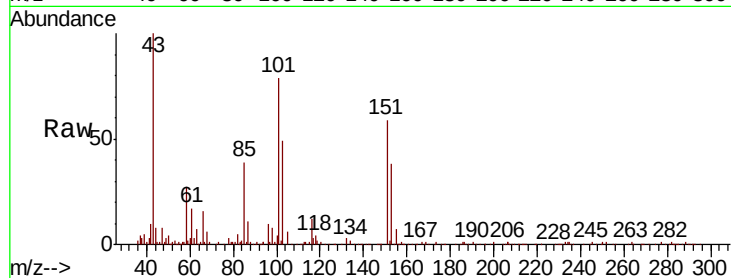




#13
Acetone
Concen: 58.08 ug/L
RT: 3.70 min Scan# 333
Delta R.T. -0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

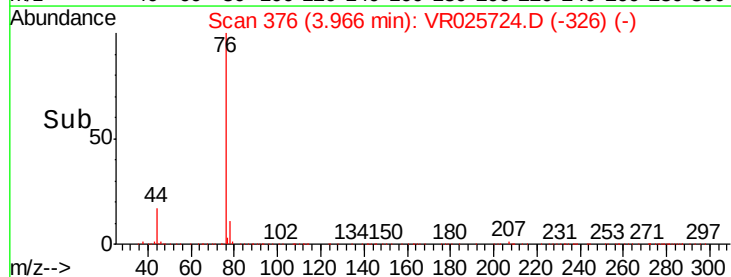
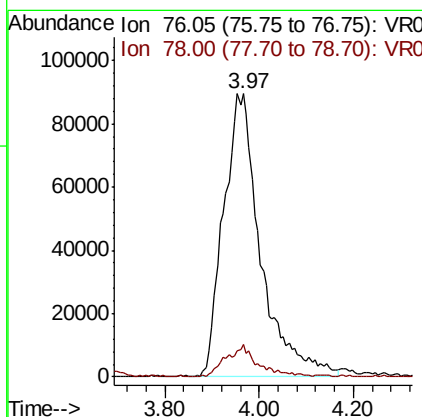
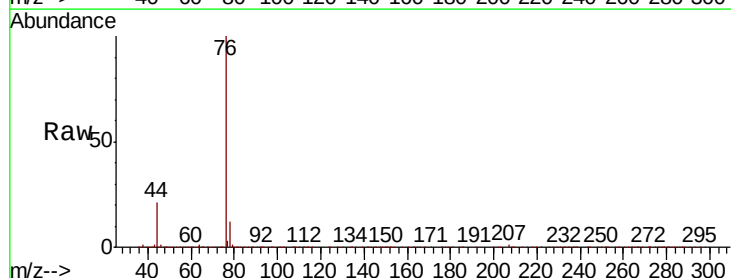
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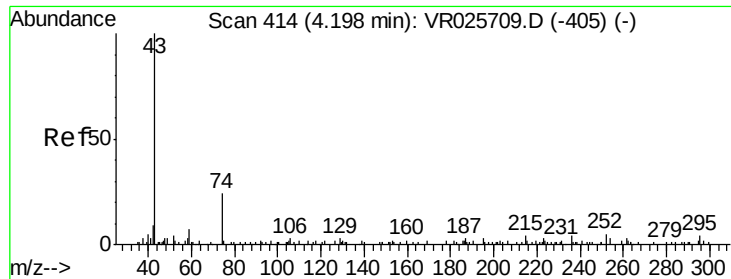
Tot Ion: 43 Resp: 141013
Ion Ratio Lower Upper
43 100
58 30.7 0.0 53.6



#14
Carbon disulfide
Concen: 3.88 ug/L
RT: 3.97 min Scan# 376
Delta R.T. 0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Tgt Ion: 76 Resp: 489951
Ion Ratio Lower Upper
76 100
78 11.6 8.6 12.8

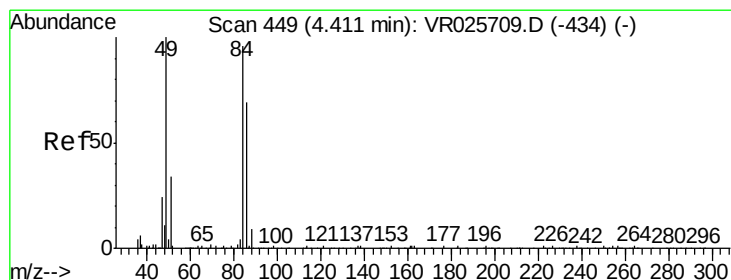
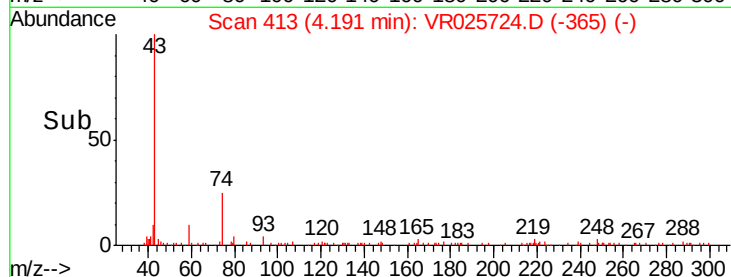
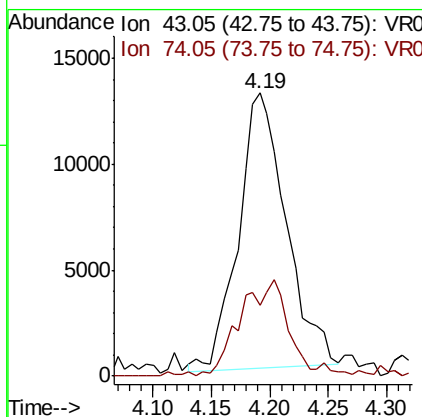
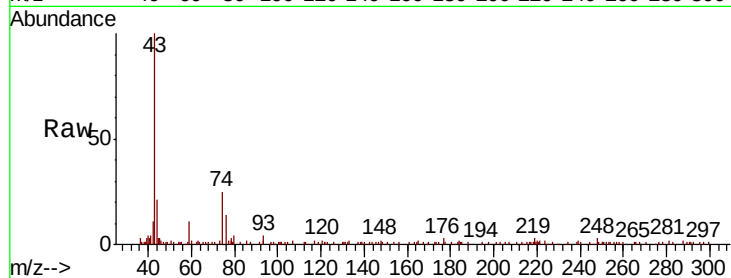




#15
Methyl Acetate
Concen: 4.25 ug/L
RT: 4.19 min Scan# 413
Delta R.T. -0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

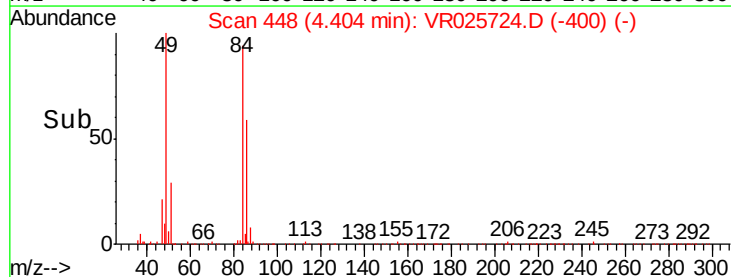
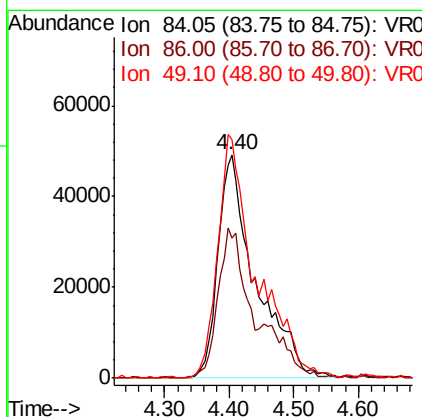
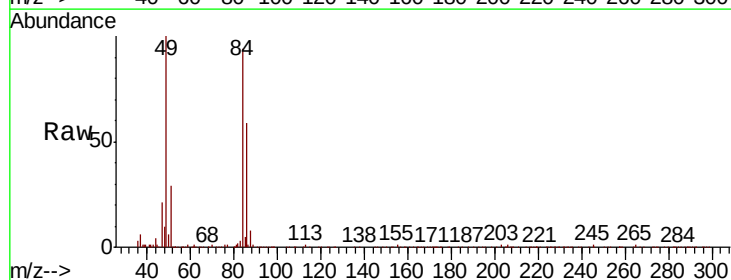
Instrument :
MSVOA_R
ClientSampled :
VSTD00502

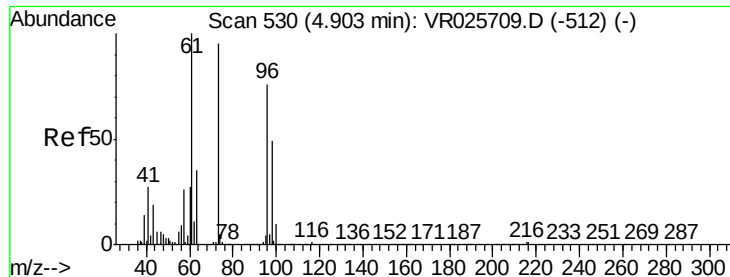
Tot Ion: 43 Resp: 36766
Ion Ratio Lower Upper
43 100
74 17.7 24.2 36.4#



#16
Methylene chloride
Concen: 4.24 ug/L
RT: 4.40 min Scan# 448
Delta R.T. -0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Tgt Ion: 84 Resp: 200797
Ion Ratio Lower Upper
84 100
86 63.8 46.5 86.3
49 106.8 77.4 143.8

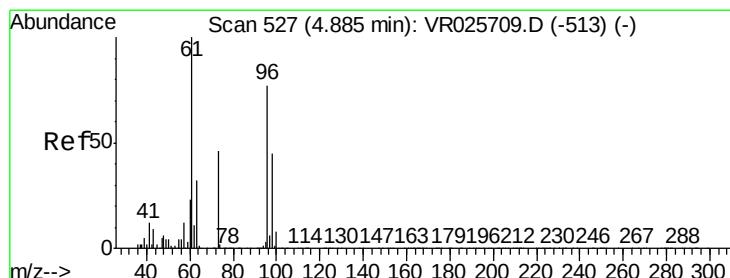
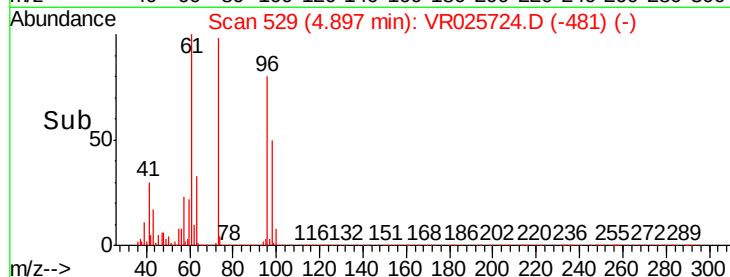
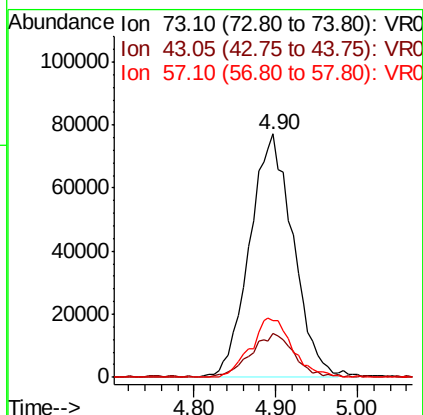
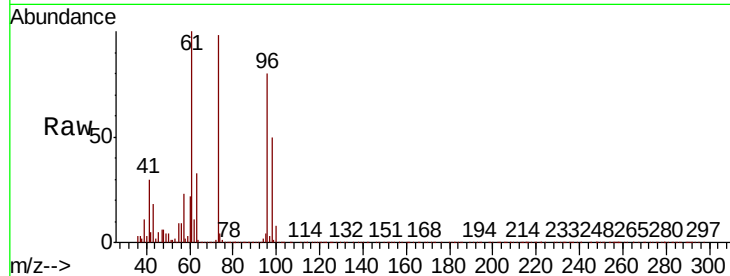




#17
Methyl tert-butyl Ether
Concen: 4.31 ug/L
RT: 4.90 min Scan# 529
Delta R.T. -0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

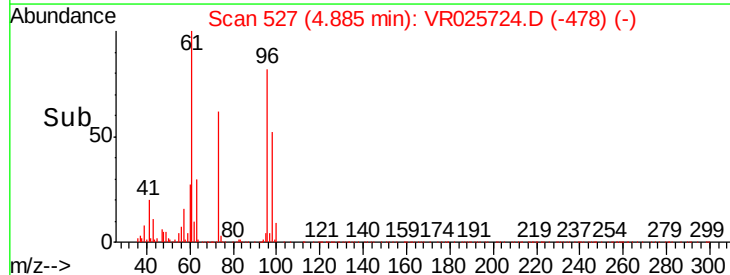
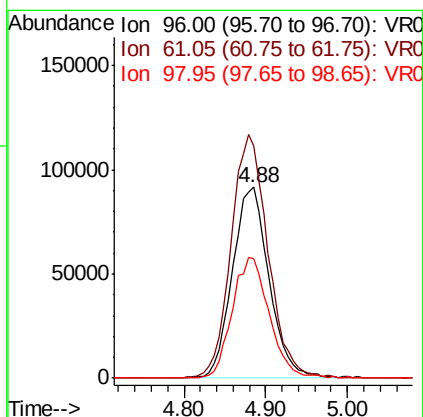
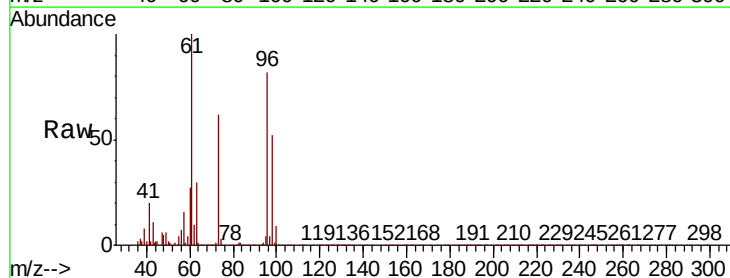
Instrument :
MSVOA_R
ClientSampleId :
VSTD00502

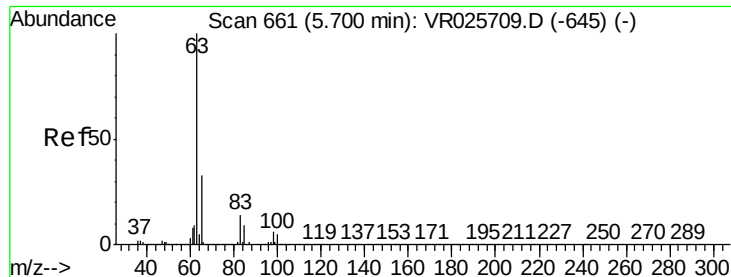
Tot Ion	Ratio	Lower	Upper
73	100		
43	18.2	15.1	22.7
57	23.5	19.5	29.3



#18
trans-1,2-Dichloroethene
Concen: 4.36 ug/L
RT: 4.88 min Scan# 527
Delta R.T. -0.00 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	121.6	91.3	169.6
98	63.0	43.2	80.2

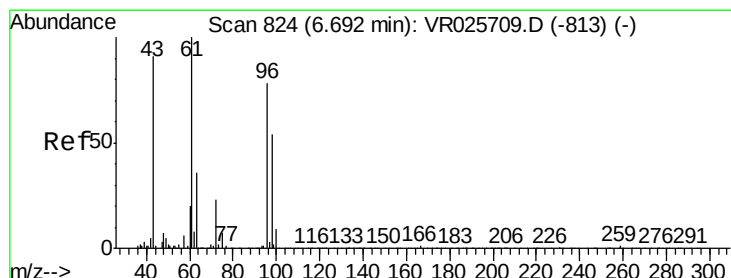
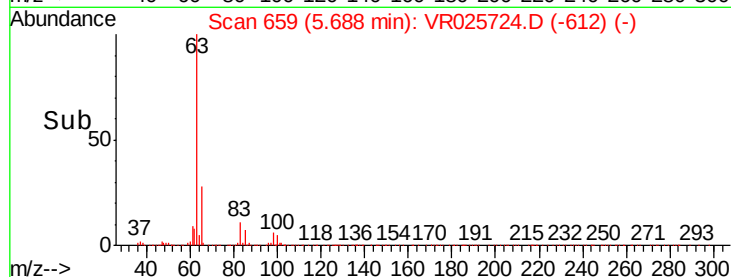
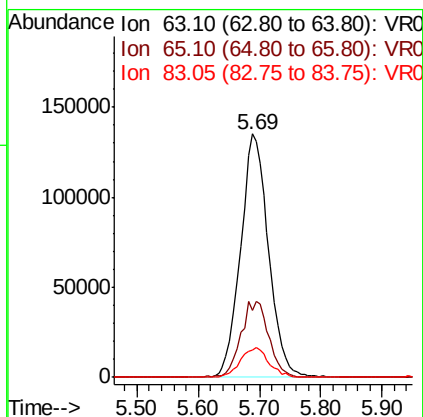
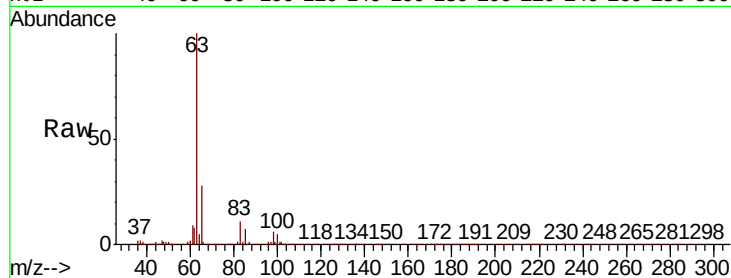




#19
 1,1-Dichloroethane
 Concen: 4.23 ug/L
 RT: 5.69 min Scan# 659
 Delta R.T. -0.01 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

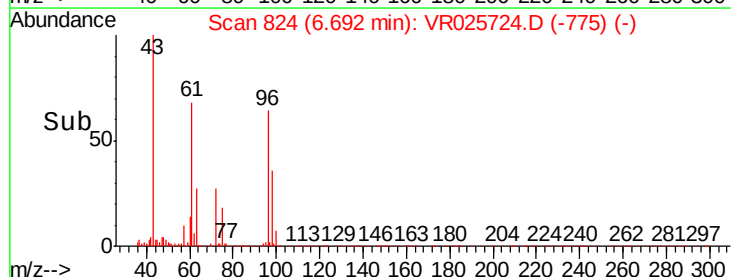
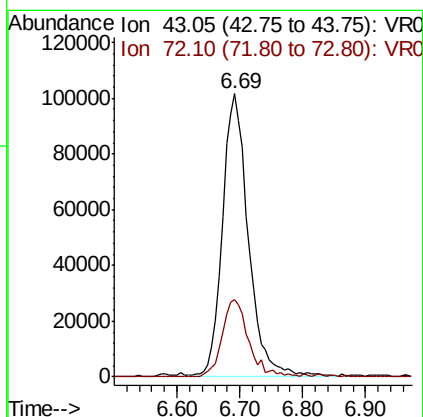
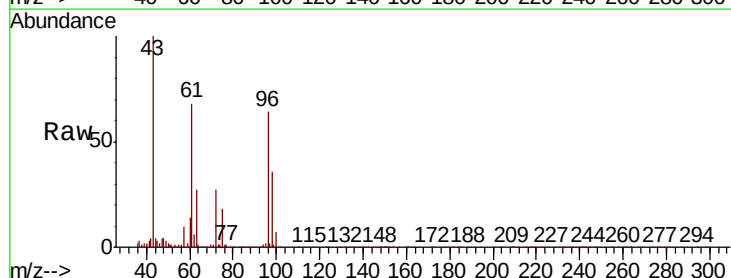
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00502

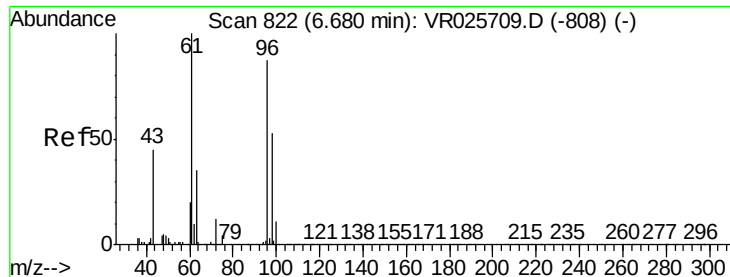
Tot Ion	Ratio	Lower	Upper
63	100		
65	28.1	21.9	40.7
83	11.4	7.6	14.2



#21
 2-Butanone
 Concen: 55.81 ug/L
 RT: 6.69 min Scan# 824
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	28.3	13.3	39.9



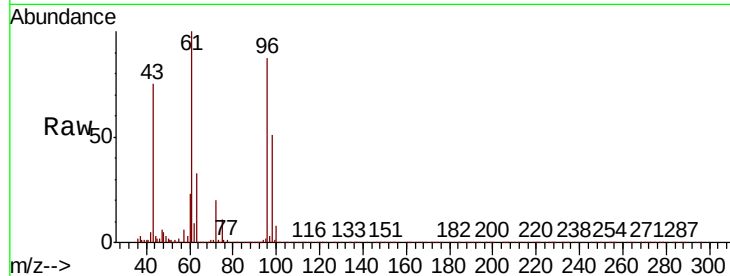


#22

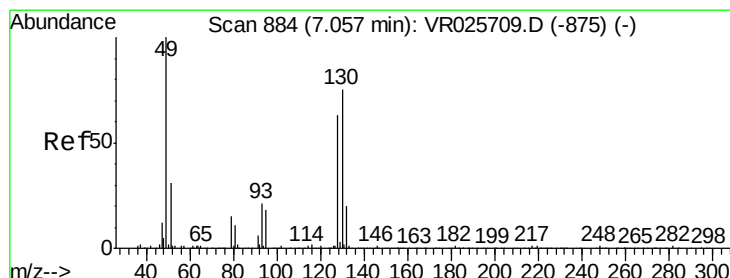
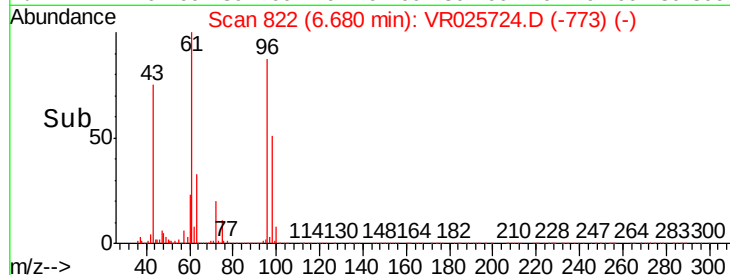
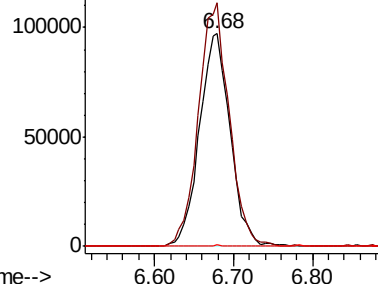
cis-1,2-Dichloroethene
Concen: 4.61 ug/L
RT: 6.68 min Scan# 822
Delta R.T. -0.00 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Instrument :
MSVOA_R
ClientSampleId :
VSTD00502

Tot Ion	Ratio	Lower	Upper
96	100		
61	114.4	79.9	148.5
68	0.8	0.2	0.4#



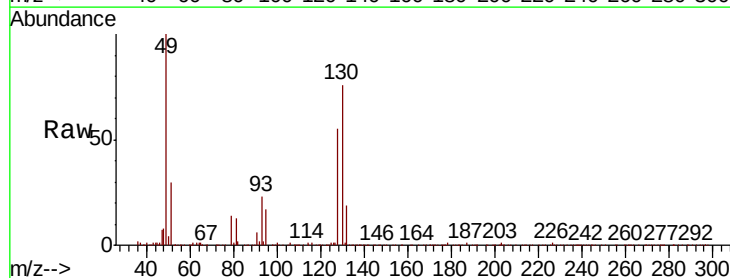
Abundance Ion 96.00 (95.70 to 96.70): VR0
Ion 61.05 (60.75 to 61.75): VR0
Ion 68.15 (67.85 to 68.85): VR0



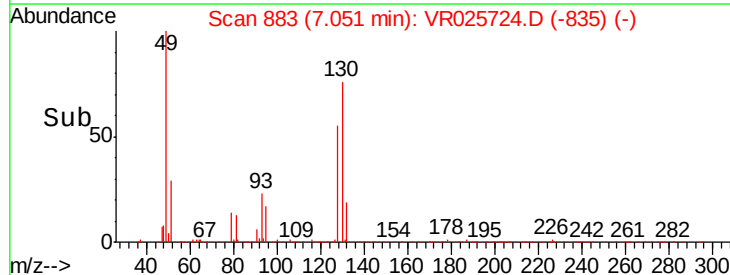
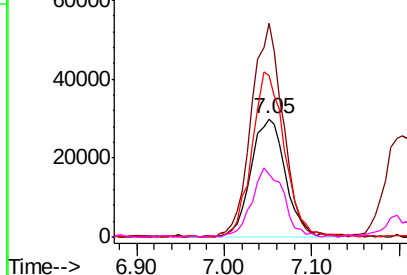
#23

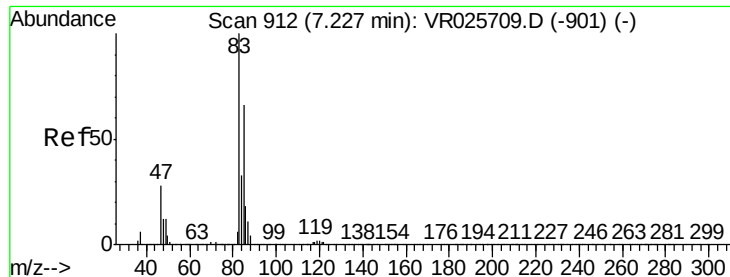
Bromochloromethane
Concen: 4.19 ug/L
RT: 7.05 min Scan# 883
Delta R.T. -0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Tgt Ion	Ratio	Lower	Upper
128	100		
49	181.3	104.6	194.2
130	137.3	84.7	157.3
51	53.6	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

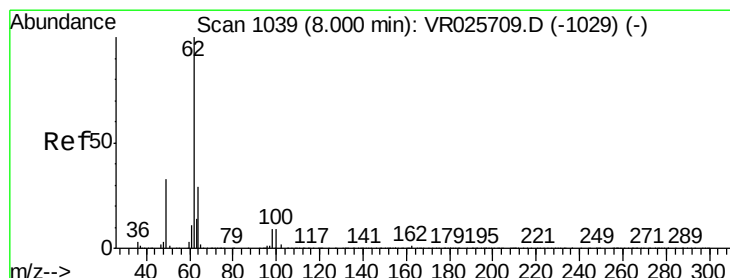
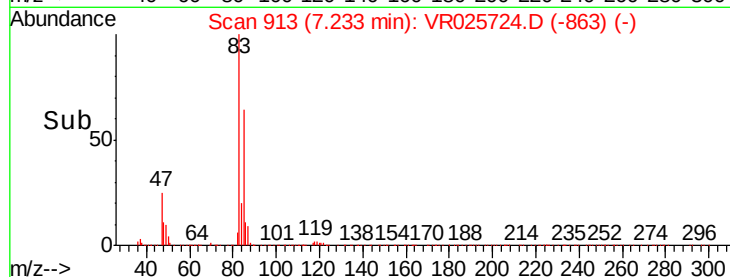
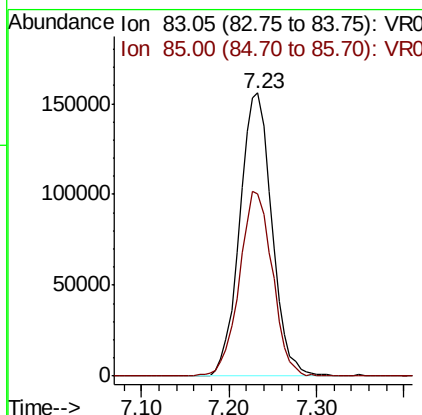
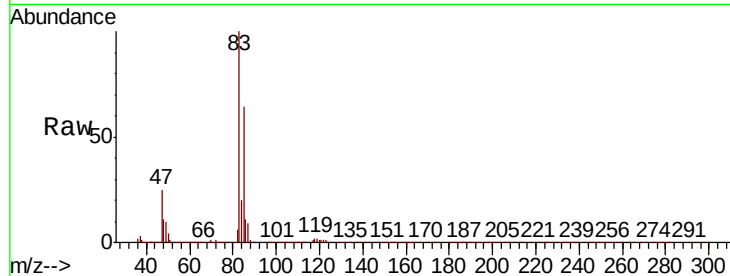




#25
Chloroform
Concen: 4.30 ug/L
RT: 7.23 min Scan# 913
Delta R.T. 0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

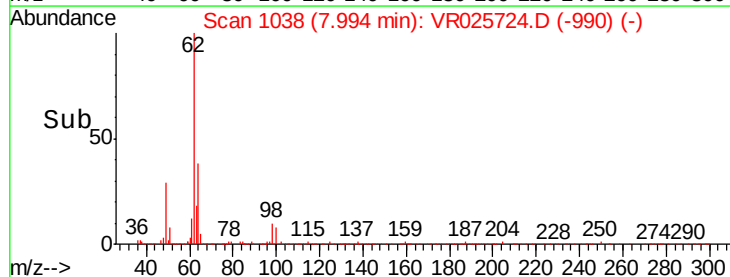
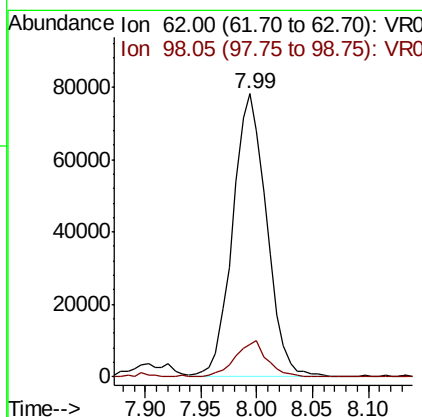
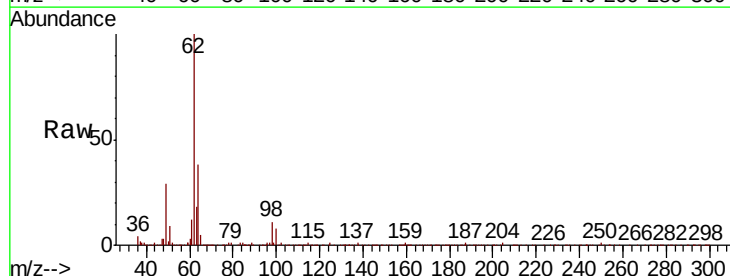
Instrument :
MSVOA_R
ClientSampleId :
VSTD00502

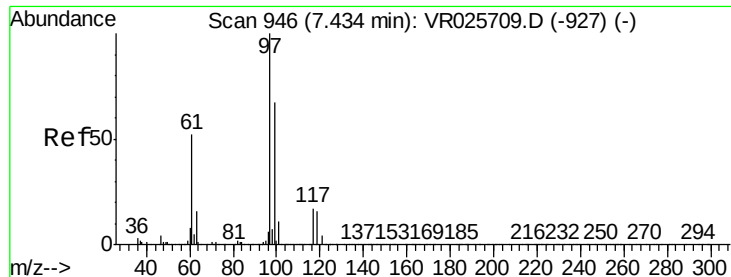
Tot Ion: 83 Resp: 396389
Ion Ratio Lower Upper
83 100
85 64.3 43.8 81.4



#27
1,2-Dichloroethane
Concen: 4.48 ug/L
RT: 7.99 min Scan# 1038
Delta R.T. -0.01 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Tgt Ion: 62 Resp: 163125
Ion Ratio Lower Upper
62 100
98 11.5 9.4 14.2





#29

1,1,1-Trichloroethane

Concen: 4.11 ug/L

RT: 7.43 min Scan# 945

Delta R.T. -0.01 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

VSTD00502

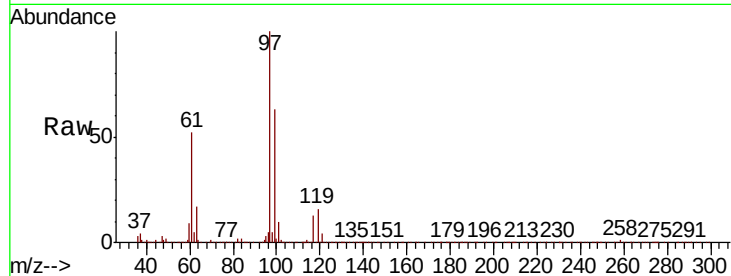
Tot Ion: 97 Resp: 290903

Ion Ratio Lower Upper

97 100

99 64.8 51.3 76.9

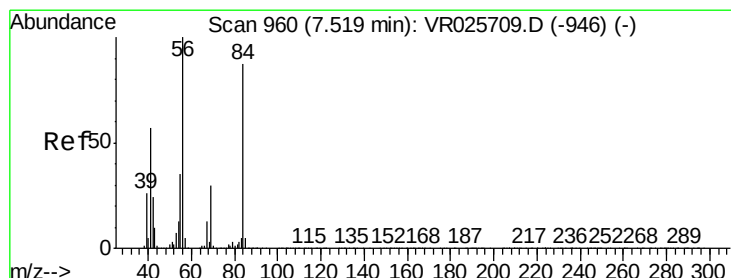
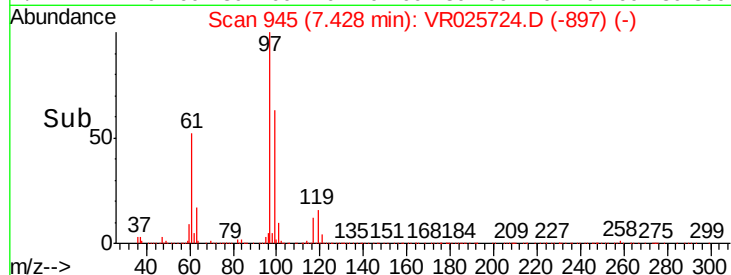
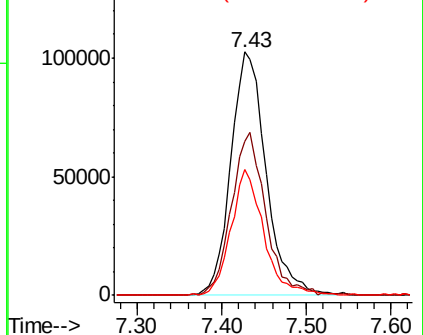
61 48.1 36.2 54.4



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: 4.45 ug/L

RT: 7.52 min Scan# 960

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

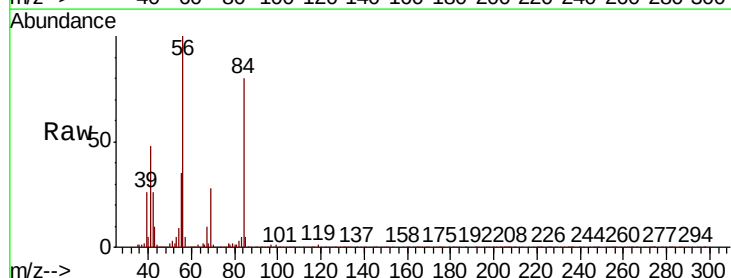
Tgt Ion: 56 Resp: 378555

Ion Ratio Lower Upper

56 100

69 28.6 23.4 35.2

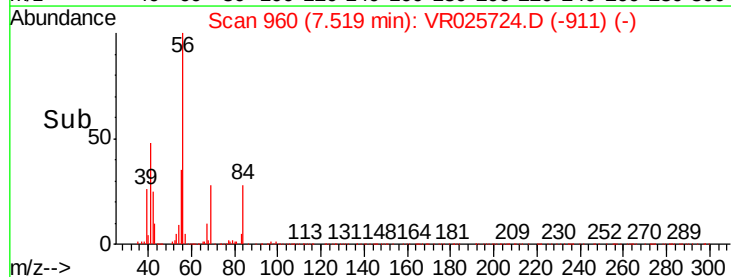
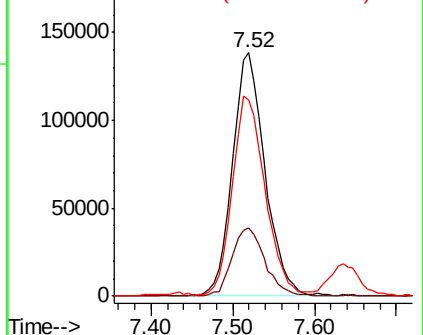
84 84.0 70.4 105.6

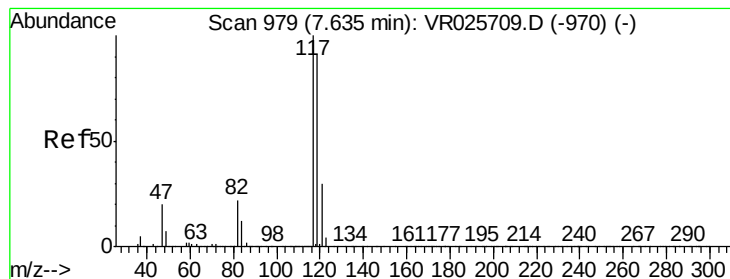


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 4.23 ug/L

RT: 7.63 min Scan# 979

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

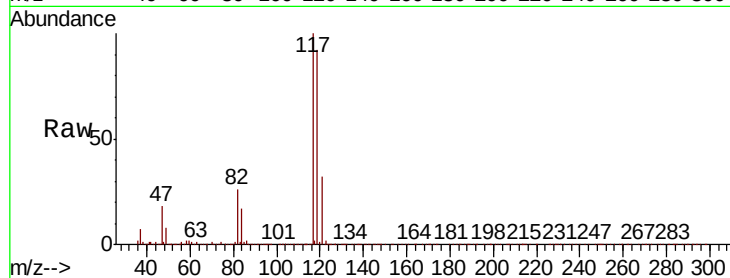
VSTD00502

Tot Ion:117 Resp: 290064

Ion Ratio Lower Upper

117 100

119 95.7 78.9 118.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

7.63

120000

100000

80000

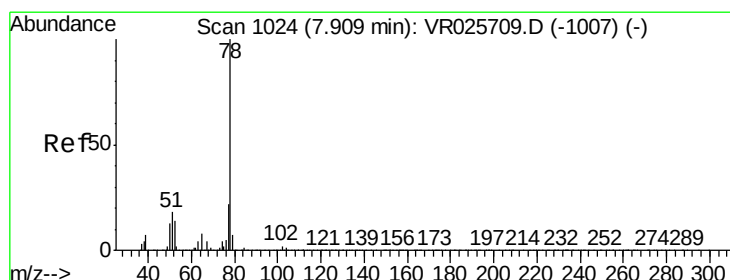
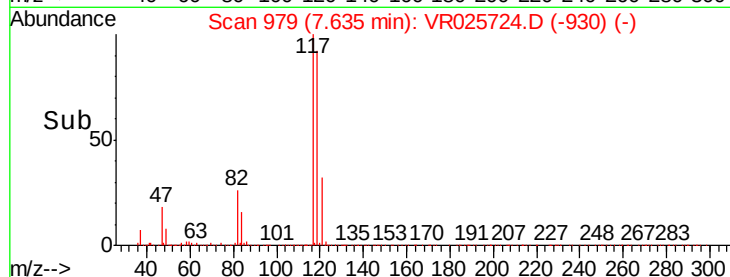
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#33

Benzene

Concen: 4.39 ug/L

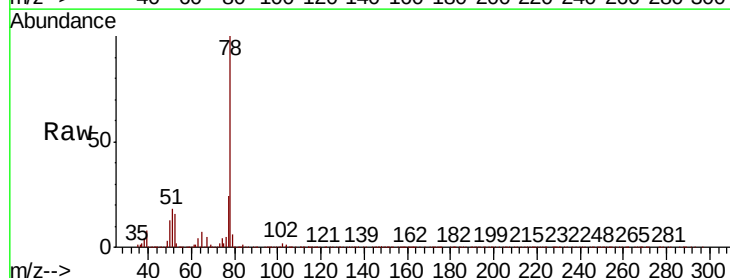
RT: 7.91 min Scan# 1024

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Tgt Ion: 78 Resp: 1112902



Abundance Ion 78.10 (77.80 to 78.80): VR0

7.91

500000

400000

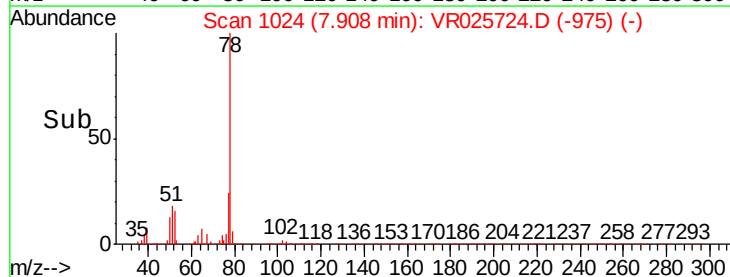
300000

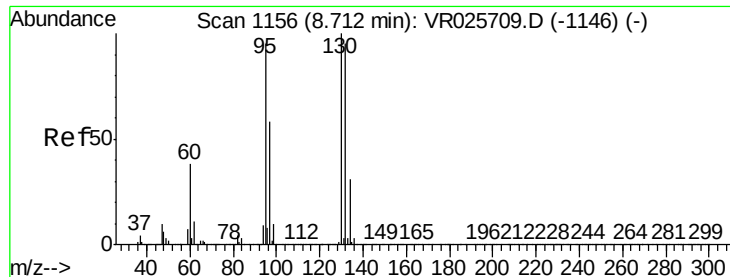
200000

100000

0

Time--> 7.80 7.90 8.00





#34

Trichloroethene

Concen: 4.39 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

VSTD00502

Tot Ion: 95 Resp: 269424

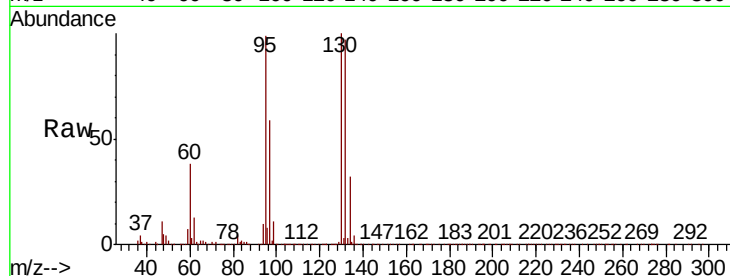
Ion Ratio Lower Upper

95 100

97 59.7 45.5 84.5

132 98.1 71.0 131.9

130 100.8 74.5 138.3

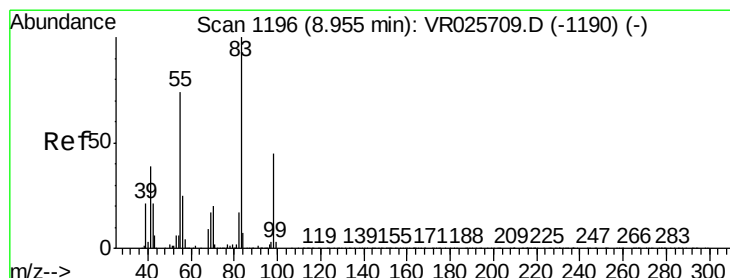
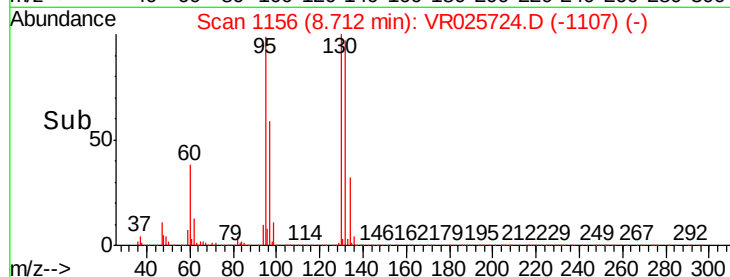
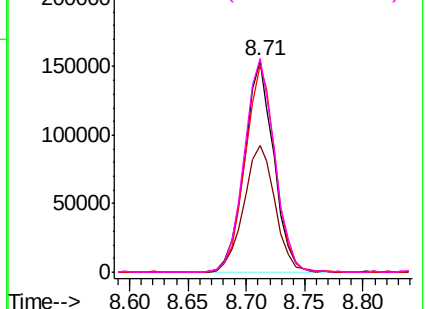


Abundance Ion 95.00 (94.70 to 95.70): VR0

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: 4.70 ug/L

RT: 8.95 min Scan# 1196

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

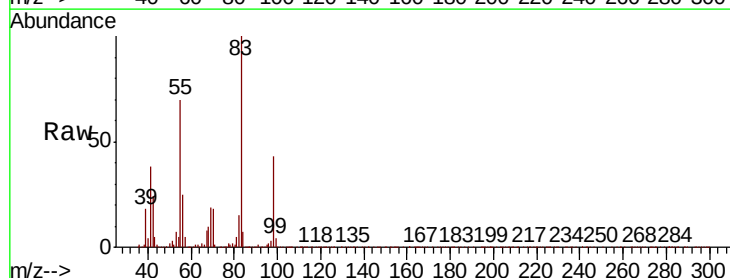
Tgt Ion: 83 Resp: 445243

Ion Ratio Lower Upper

83 100

55 72.2 58.9 88.3

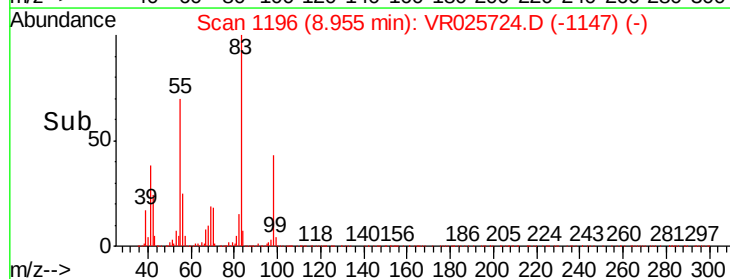
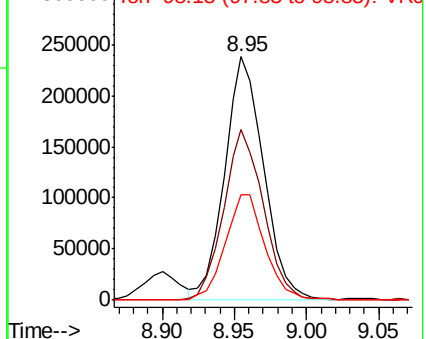
98 44.6 36.9 55.3

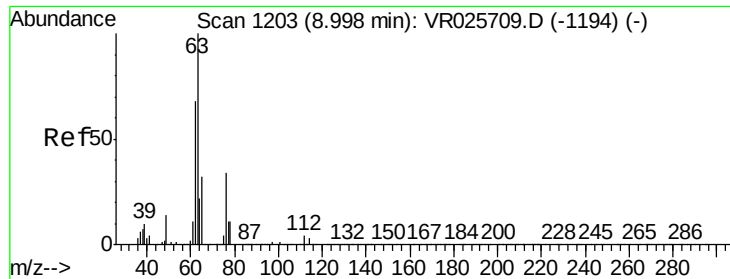


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0

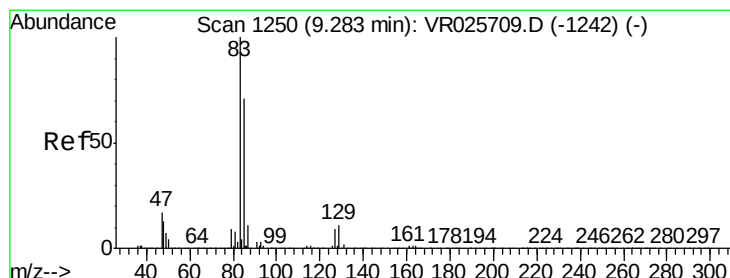
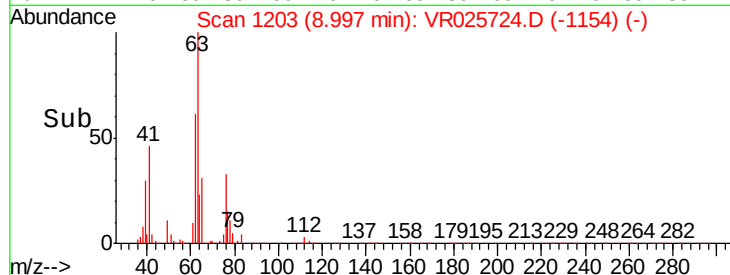
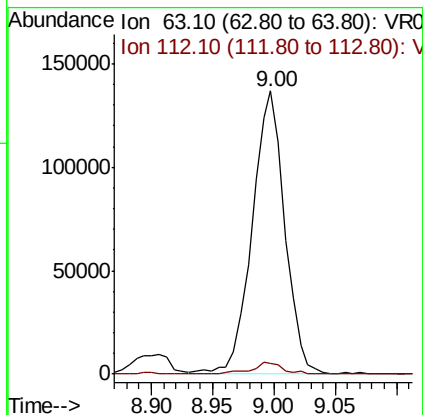
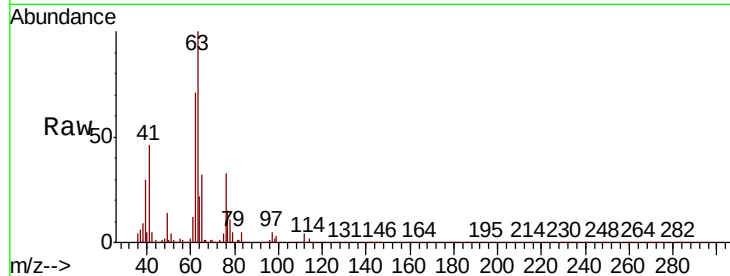




#37
 1,2-Dichloropropane
 Concen: 4.41 ug/L
 RT: 9.00 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

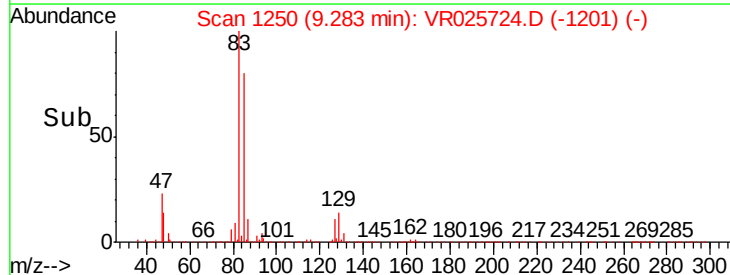
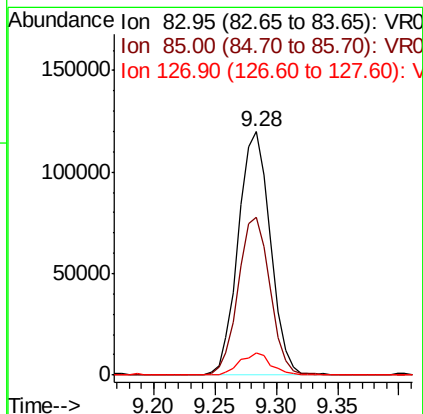
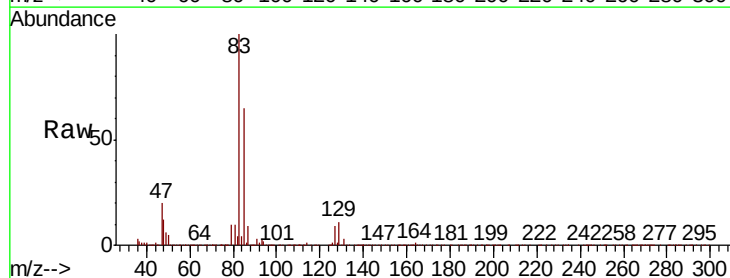
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00502

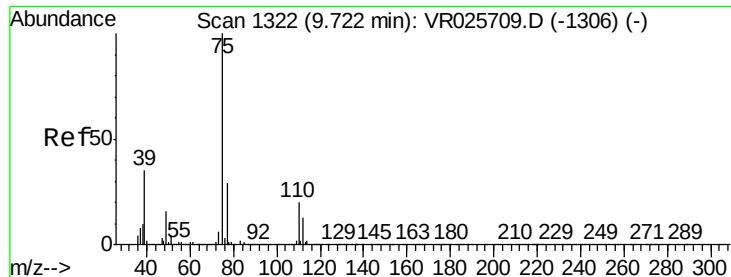
Tot Ion: 63 Resp: 251889
 Ion Ratio Lower Upper
 63 100
 112 4.1 2.9 4.3



#38
 Bromodichloromethane
 Concen: 4.27 ug/L
 RT: 9.28 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

Tgt Ion: 83 Resp: 218760
 Ion Ratio Lower Upper
 83 100
 85 64.6 48.7 90.5
 127 9.0 7.5 11.3

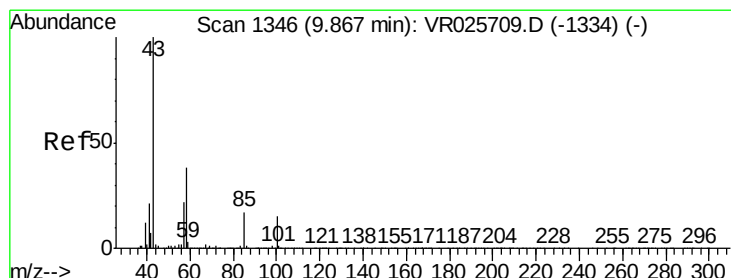
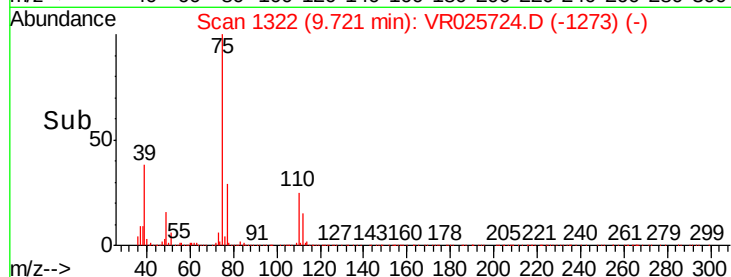
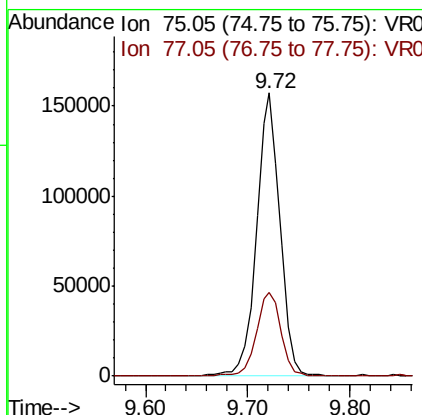
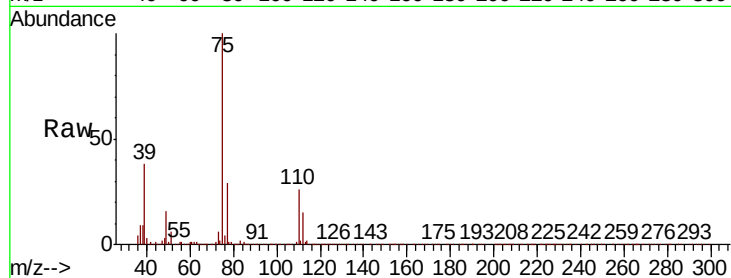




#39
 cis-1,3-Dichloropropene
 Concen: 4.31 ug/L
 RT: 9.72 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

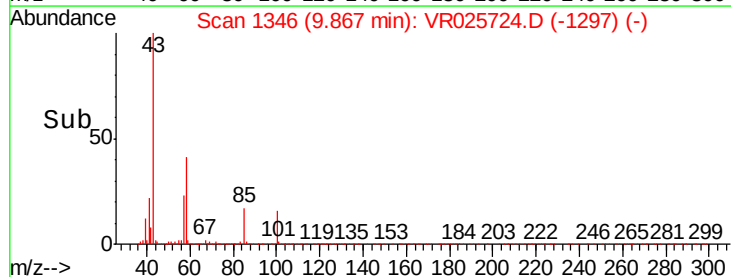
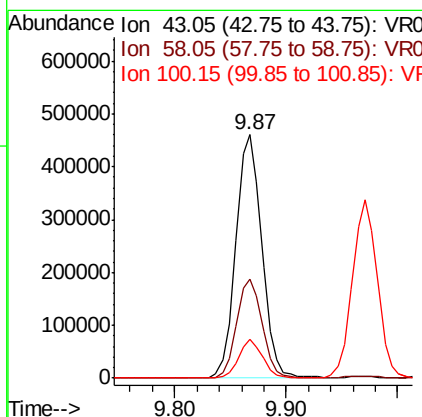
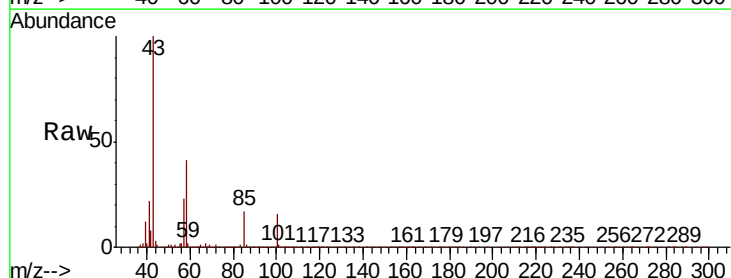
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00502

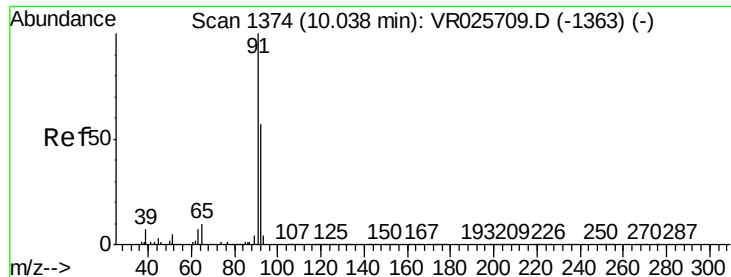
Tot Ion: 75 Resp: 251585
 Ion Ratio Lower Upper
 75 100
 77 29.4 21.6 40.2



#40
 4-Methyl-2-pentanone
 Concen: 52.53 ug/L
 RT: 9.87 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

Tgt Ion: 43 Resp: 741318
 Ion Ratio Lower Upper
 43 100
 58 39.8 30.6 46.0
 100 14.8 11.7 17.5





#42

Toluene

Concen: 4.65 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

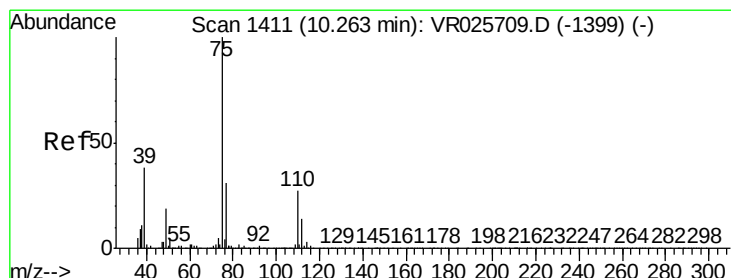
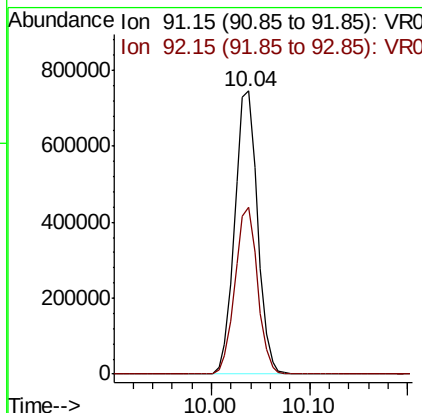
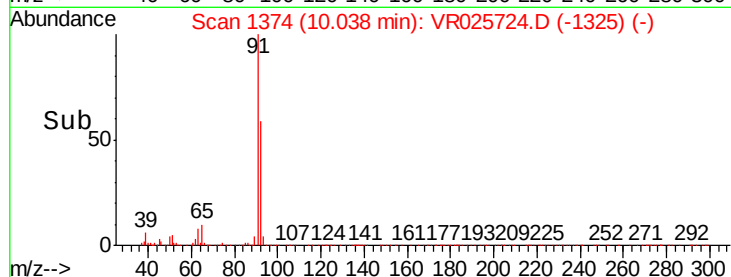
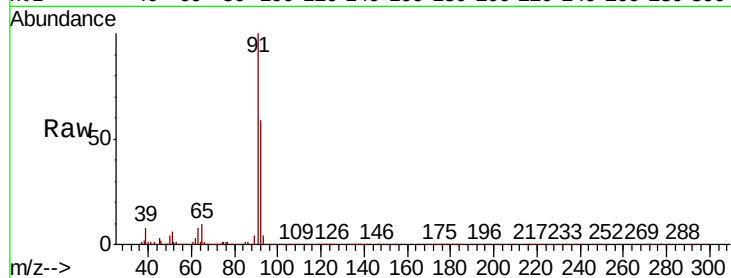
VSTD00502

Tot Ion: 91 Resp: 1206603

Ion Ratio Lower Upper

91 100

92 58.8 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 4.42 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR025724.D

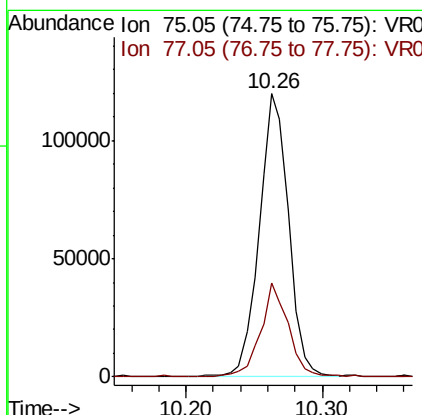
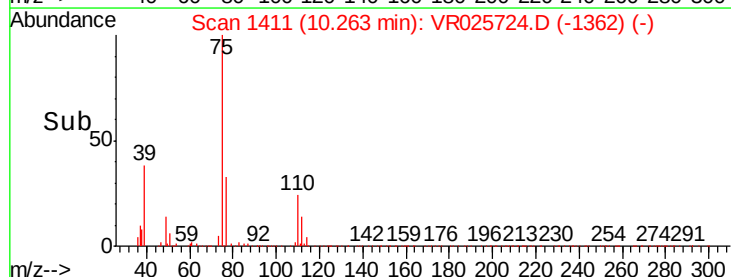
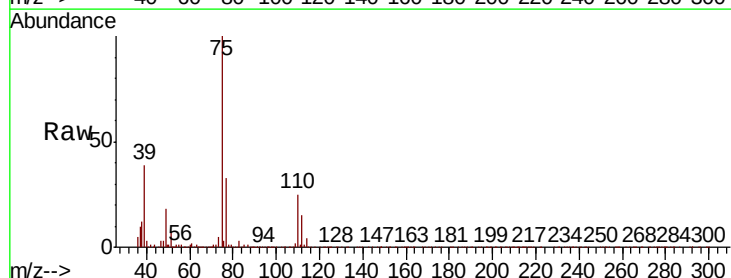
Acq: 13 Sep 2018 20:58

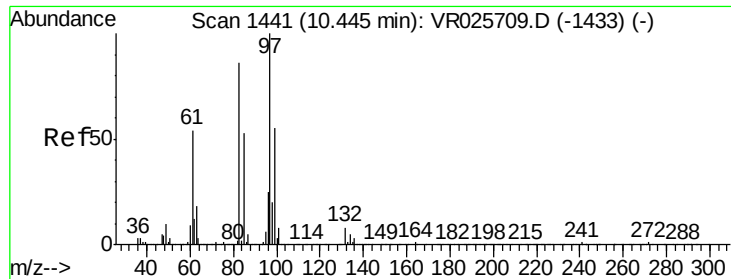
Tgt Ion: 75 Resp: 181594

Ion Ratio Lower Upper

75 100

77 33.2 20.7 38.5

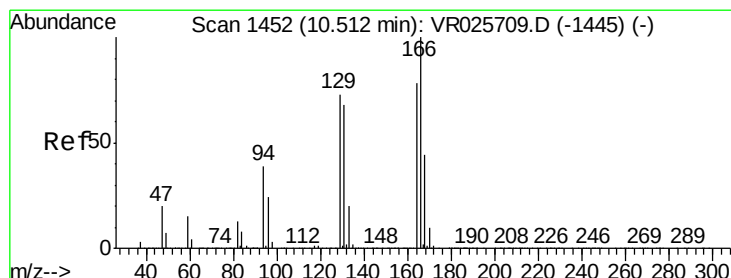
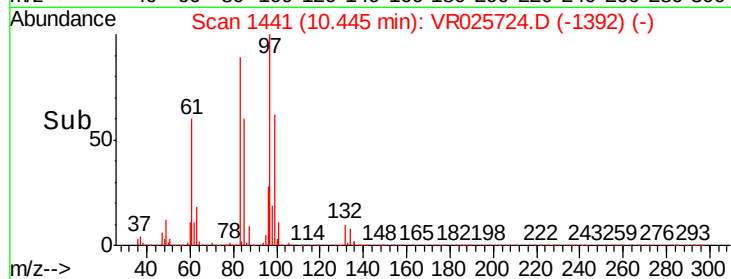
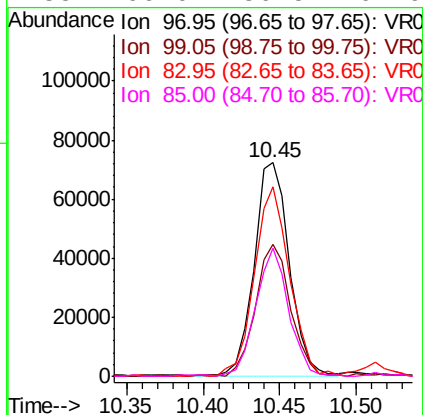
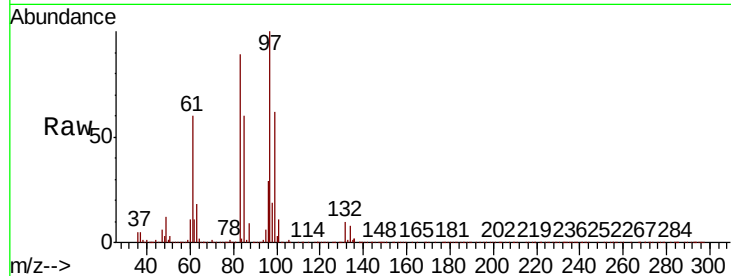




#45
 1,1,2-Trichloroethane
 Concen: 4.31 ug/L
 RT: 10.45 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

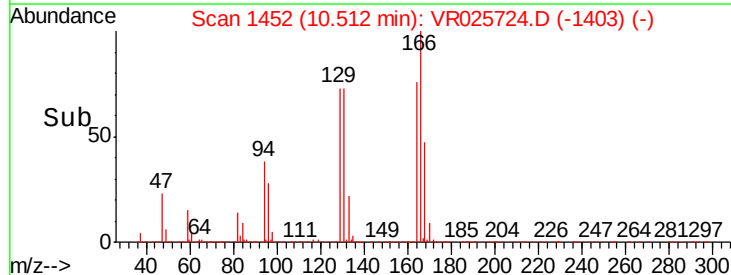
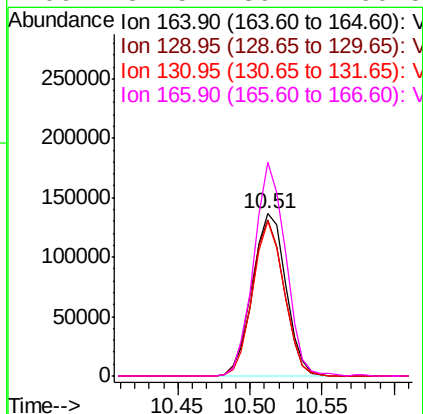
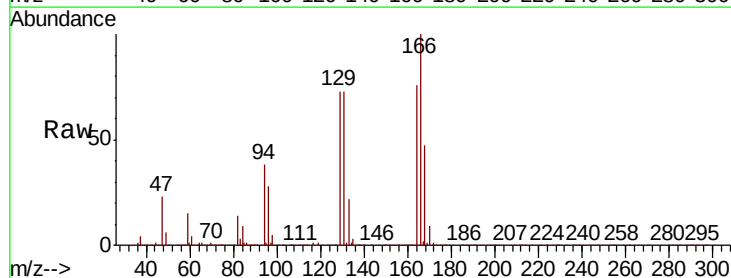
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00502

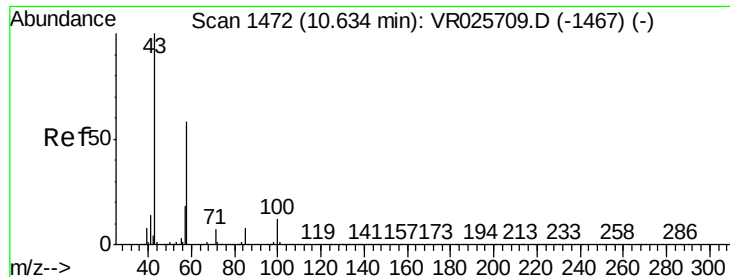
Tot Ion:	97	Resp:	115400
Ion	Ratio	Lower	Upper
97	100		
99	61.8	41.3	76.7
83	88.7	55.4	102.8
85	60.0	36.5	67.9



#47
 Tetrachloroethene
 Concen: 4.30 ug/L
 RT: 10.51 min Scan# 1452
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

Tgt Ion:	164	Resp:	216012
Ion	Ratio	Lower	Upper
164	100		
129	96.3	65.6	121.8
131	95.7	62.2	115.4
166	131.5	89.7	166.5

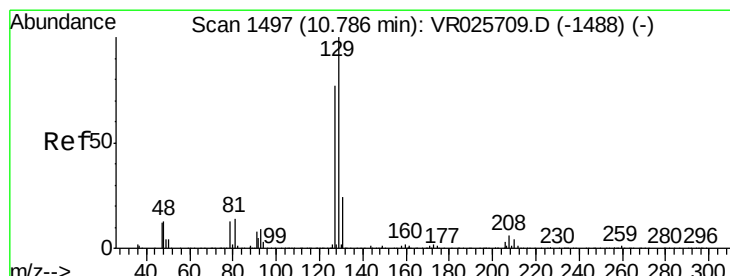
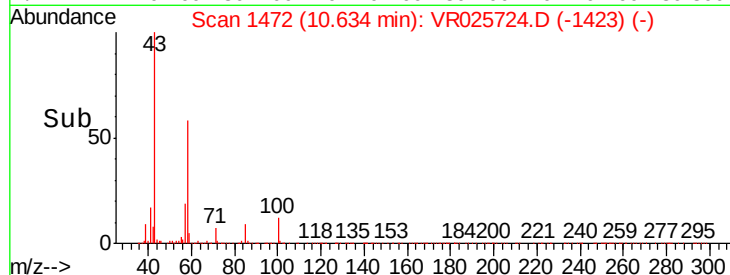
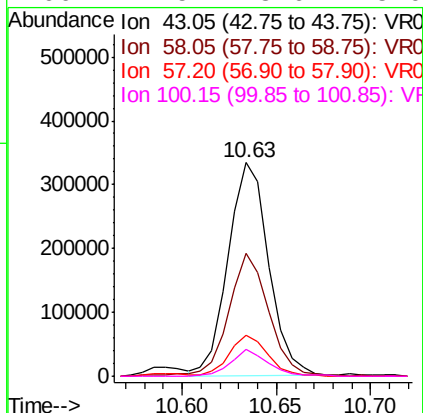
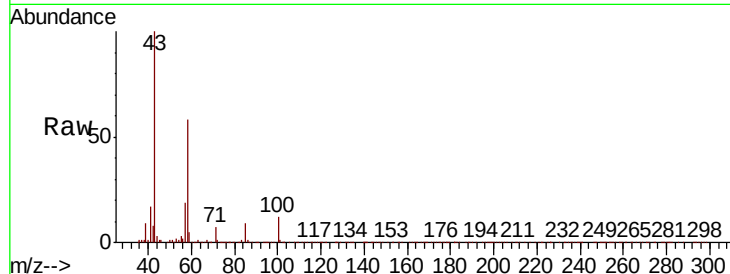




#48
2-Hexanone
Concen: 50.06 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

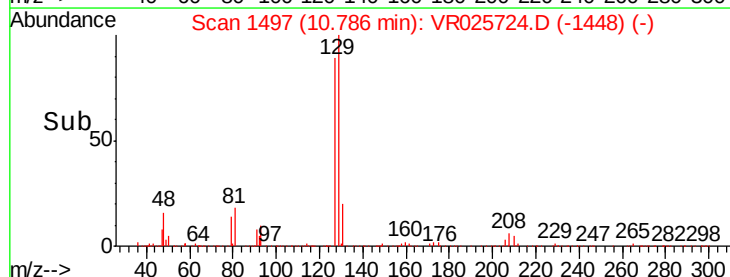
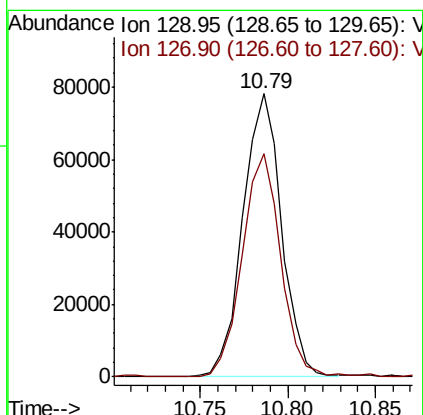
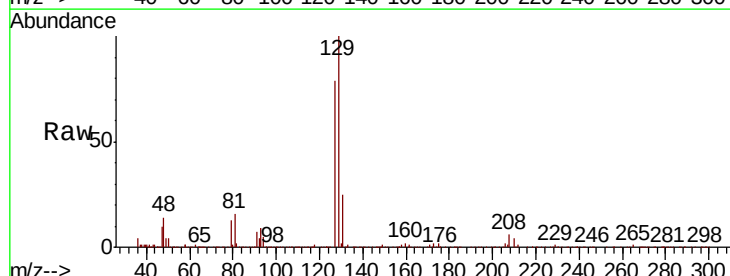
Instrument :
MSVOA_R
ClientSampleId :
VSTD00502

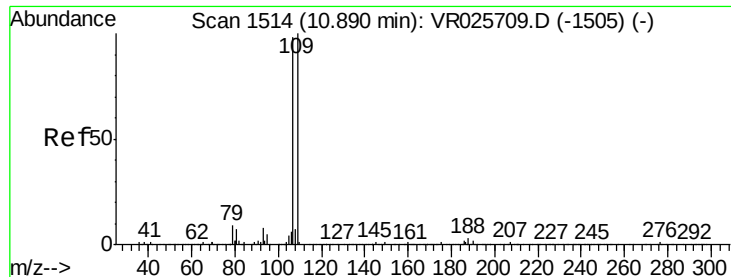
Tot Ion:	43	Resp:	495446
Ion	Ratio	Lower	Upper
43	100		
58	57.9	45.8	68.8
57	18.4	14.2	21.2
100	11.5	8.6	13.0



#49
Dibromochloromethane
Concen: 4.19 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Tgt Ion:	129	Resp:	119368
Ion	Ratio	Lower	Upper
129	100		
127	79.0	54.1	100.5

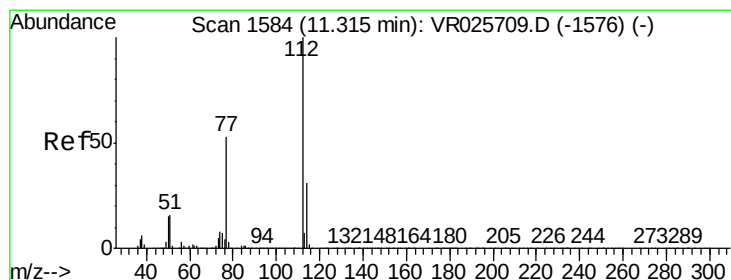
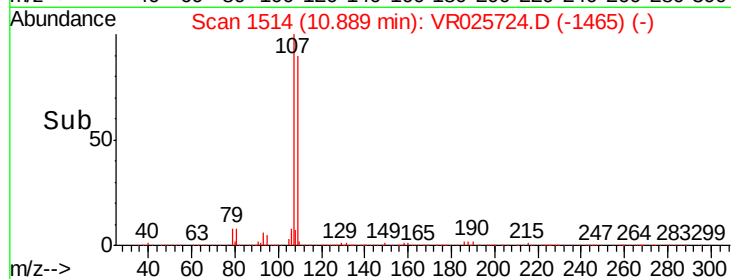
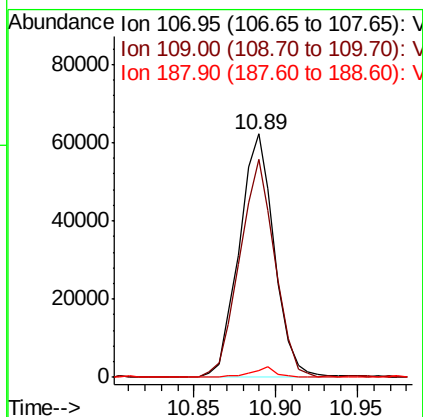
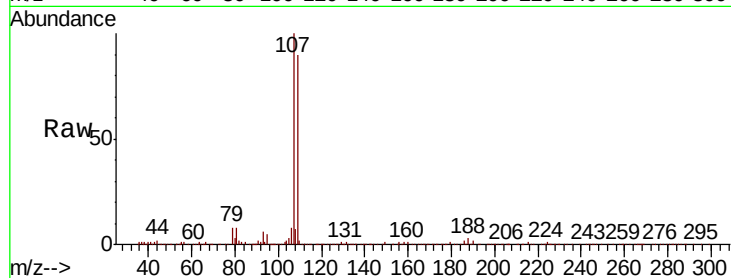




#50
1,2-Dibromoethane
Concen: 4.39 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

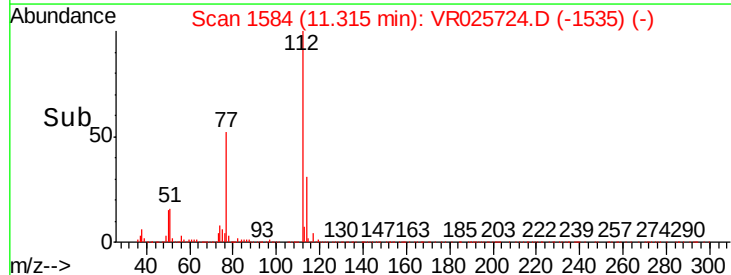
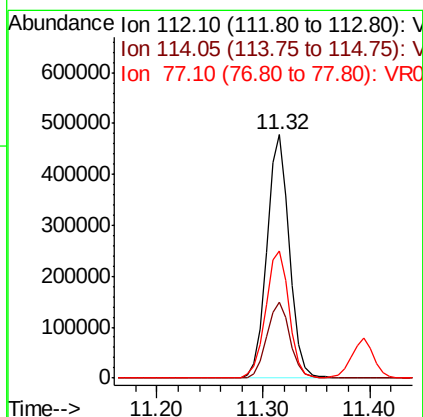
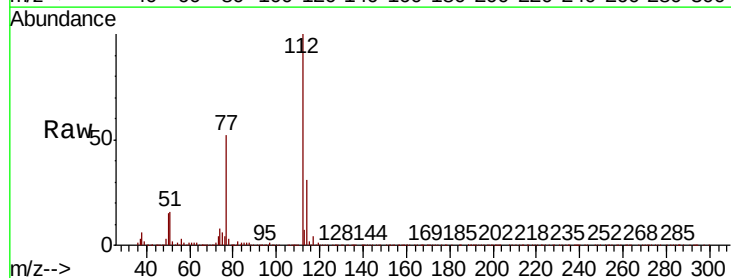
Instrument :
MSVOA_R
ClientSampleId :
VSTD00502

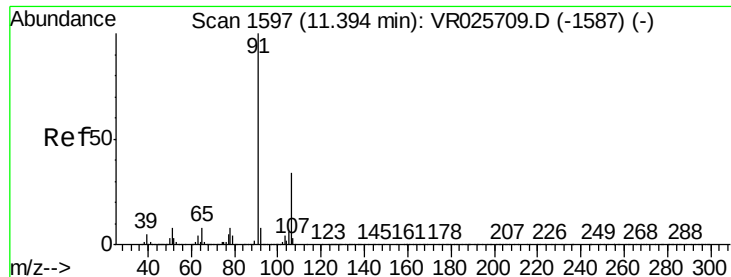
Tot Ion:107 Resp: 93172
Ion Ratio Lower Upper
107 100
109 89.6 71.3 132.5
188 2.8 3.4 5.0#



#51
Chlorobenzene
Concen: 4.30 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. -0.00 min
Lab File: VR025724.D
Acq: 13 Sep 2018 20:58

Tgt Ion:112 Resp: 701325
Ion Ratio Lower Upper
112 100
114 31.0 21.8 40.6
77 52.3 42.4 63.6





#52

Ethylbenzene

Concen: 4.65 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

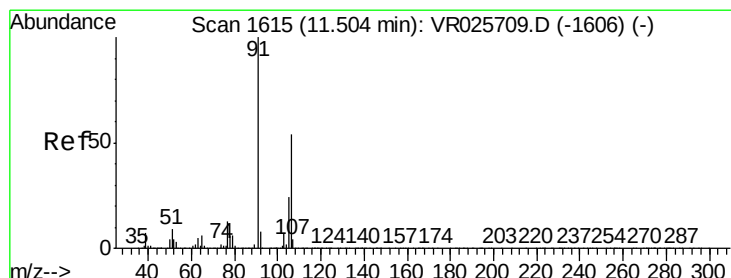
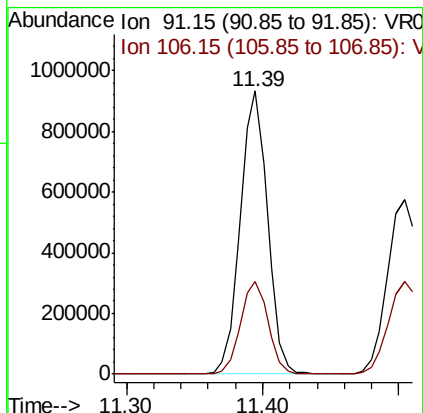
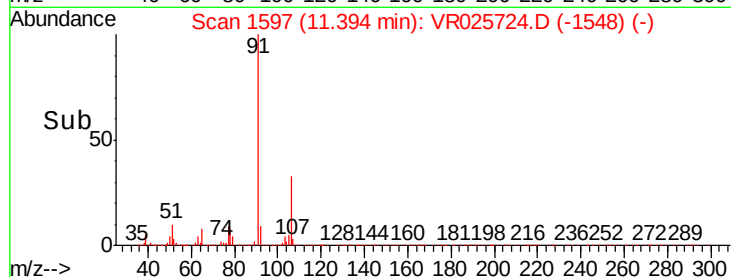
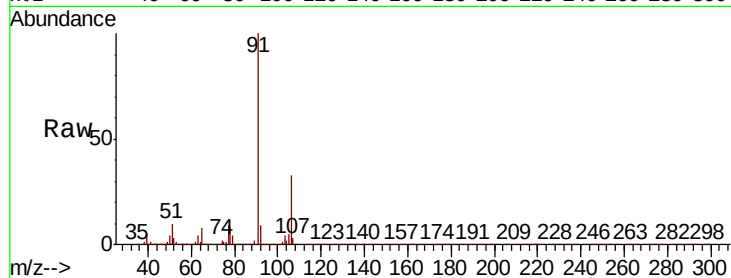
VSTD00502

Tot Ion: 91 Resp: 1300181

Ion Ratio Lower Upper

91 100

106 32.8 22.7 42.3



#53

m,p-Xylene

Concen: 4.54 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR025724.D

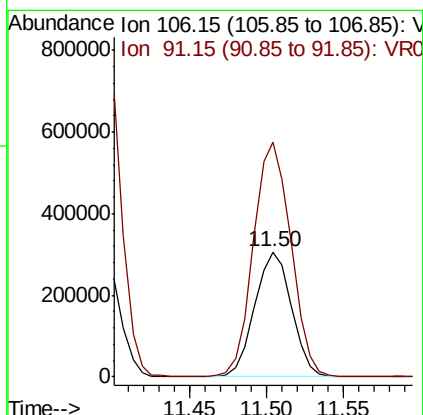
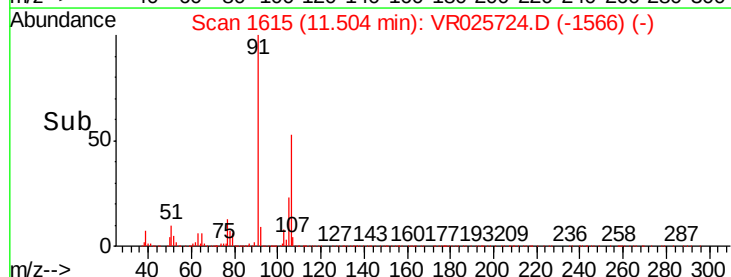
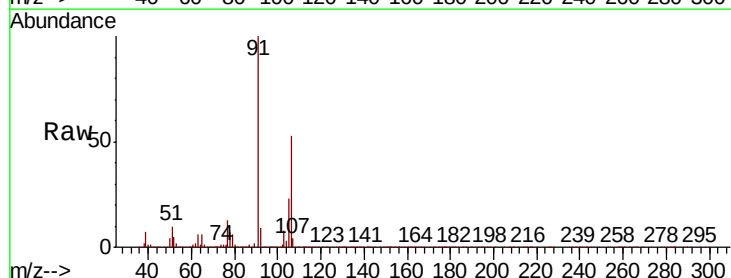
Acq: 13 Sep 2018 20:58

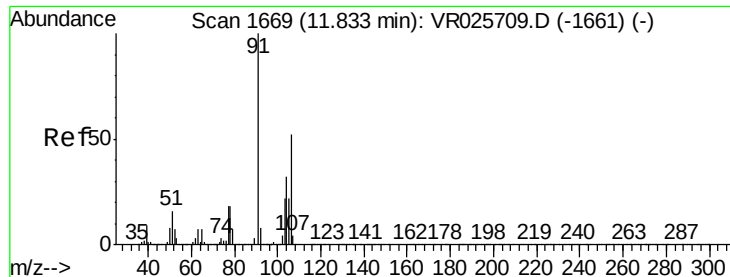
Tgt Ion: 106 Resp: 510035

Ion Ratio Lower Upper

106 100

91 187.8 128.7 238.9





#54

o-Xylene

Concen: 4.80 ug/L

RT: 11.83 min Scan# 1669

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

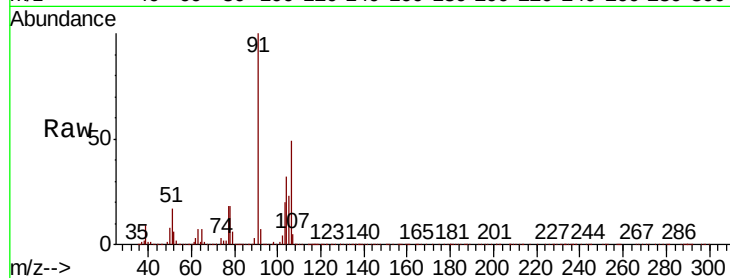
VSTD00502

Tot Ion:106 Resp: 475360

Ion Ratio Lower Upper

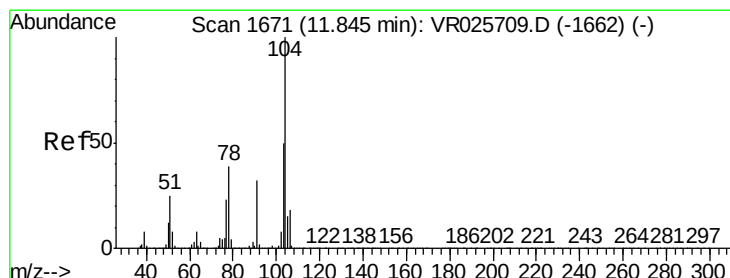
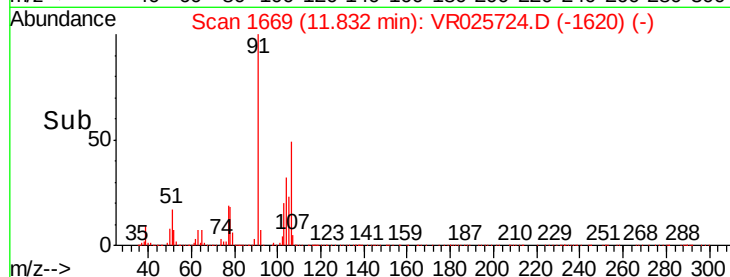
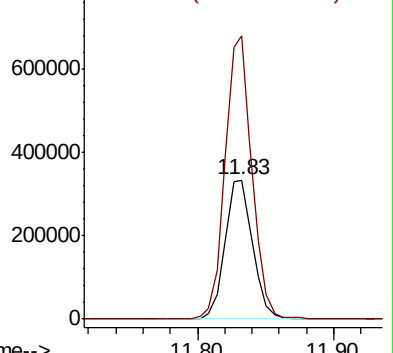
106 100

91 203.3 139.2 258.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 4.85 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VR025724.D

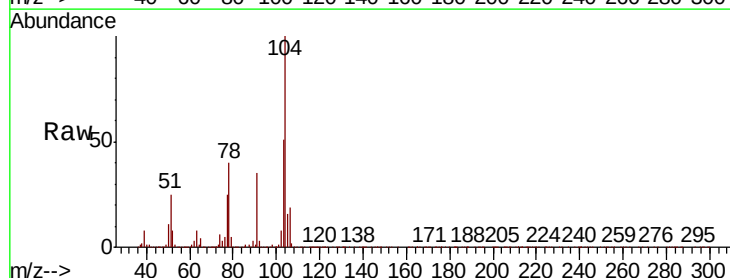
Acq: 13 Sep 2018 20:58

Tgt Ion:104 Resp: 772713

Ion Ratio Lower Upper

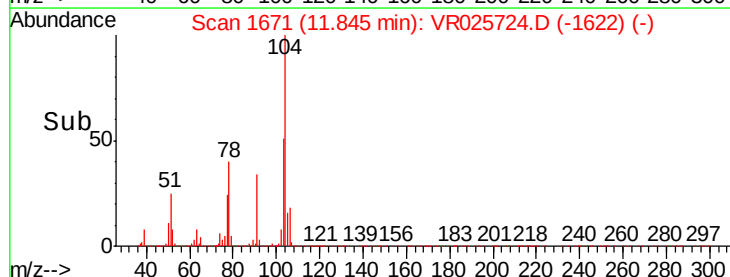
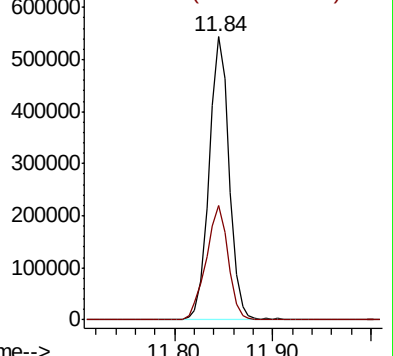
104 100

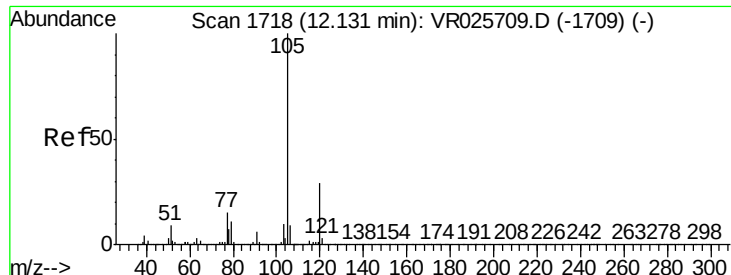
78 40.3 27.6 51.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0





#56

Isopropylbenzene

Concen: 5.05 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

VSTD00502

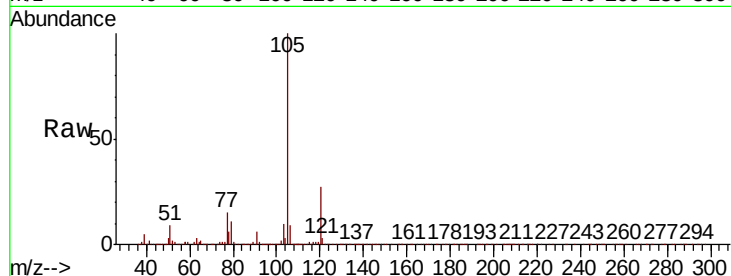
Tot Ion:105 Resp: 1246883

Ion Ratio Lower Upper

105 100

120 27.7 22.8 34.2

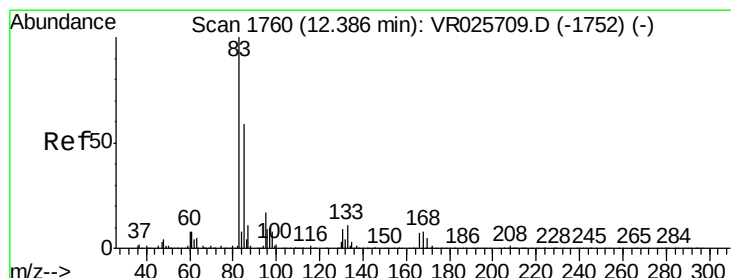
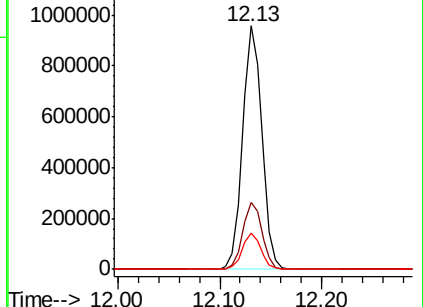
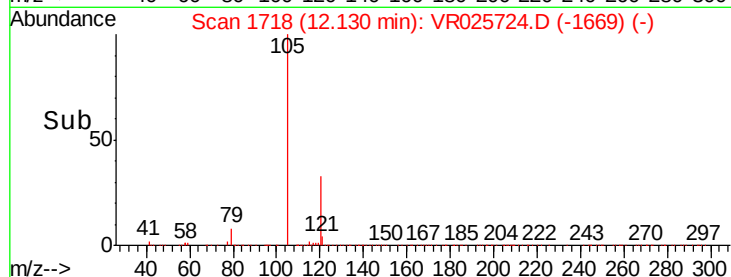
77 14.4 11.8 17.8



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: 4.53 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

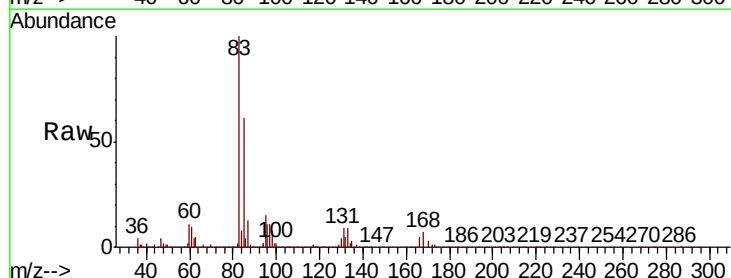
Tgt Ion: 83 Resp: 117891

Ion Ratio Lower Upper

83 100

85 61.3 47.9 88.9

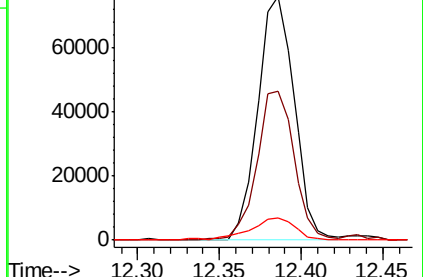
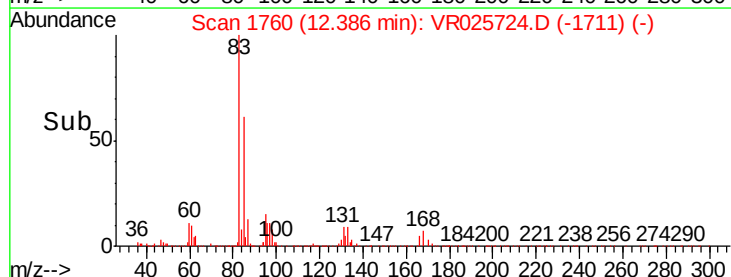
131 9.0 8.2 12.4

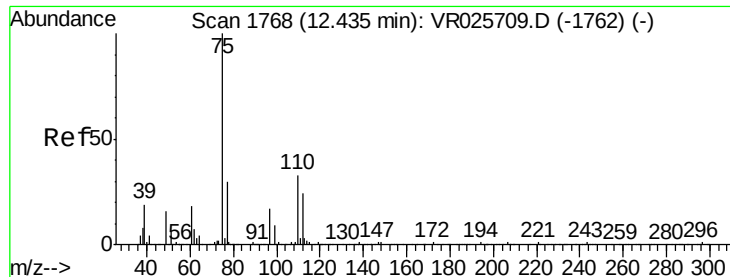


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.32 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

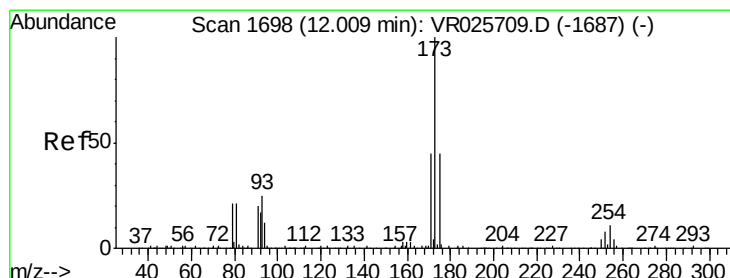
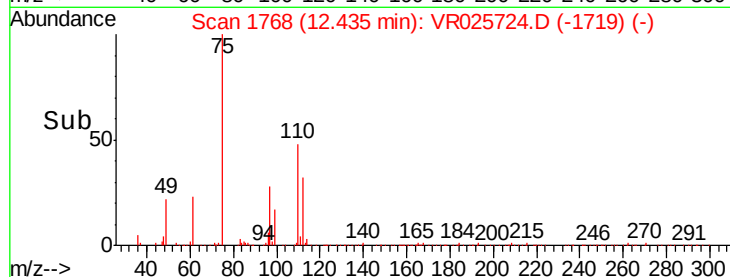
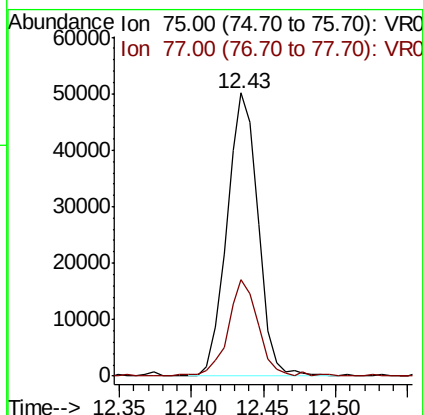
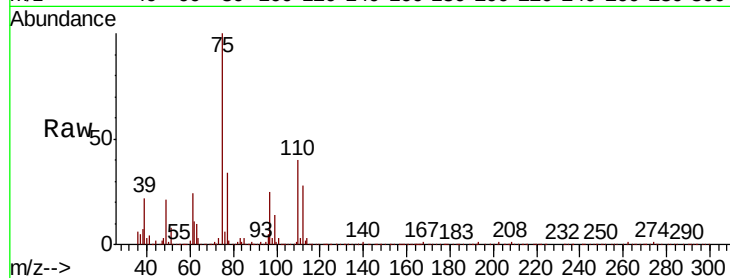
VSTD00502

Tot Ion: 75 Resp: 75630

Ion Ratio Lower Upper

75 100

77 32.5 27.8 41.8



#61

Bromoform

Concen: 3.19 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

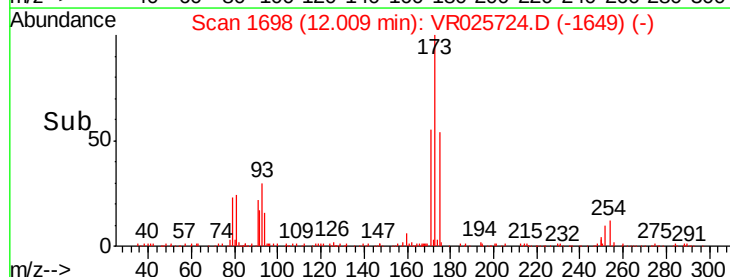
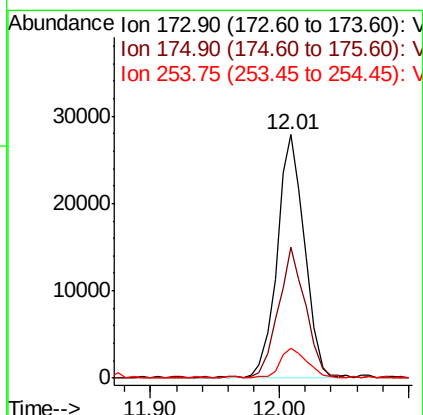
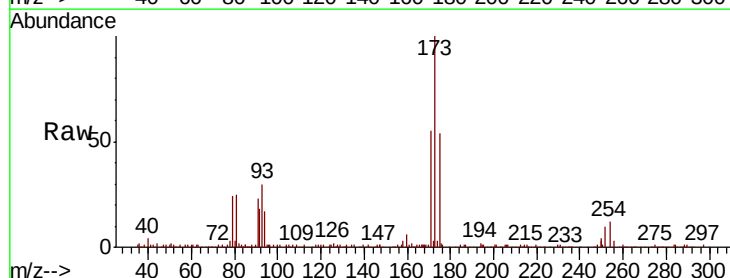
Tgt Ion: 173 Resp: 41430

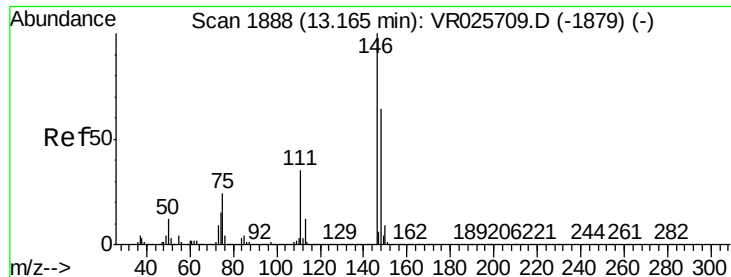
Ion Ratio Lower Upper

173 100

175 54.4 41.9 62.9

254 12.3 7.3 10.9#





#62

1,3-Dichlorobenzene

Concen: 4.14 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

VSTD00502

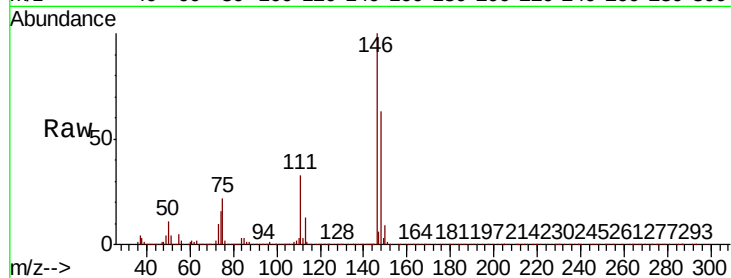
Tot Ion:146 Resp: 392453

Ion Ratio Lower Upper

146 100

111 32.8 25.4 47.2

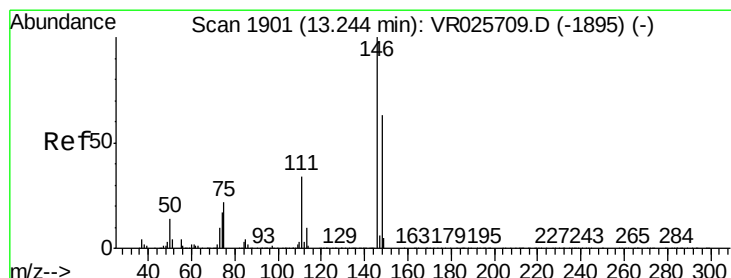
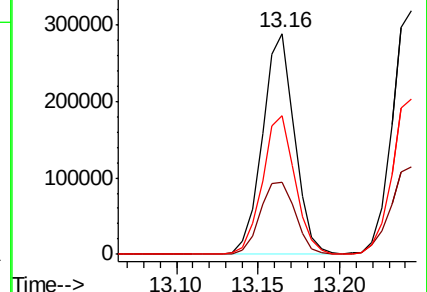
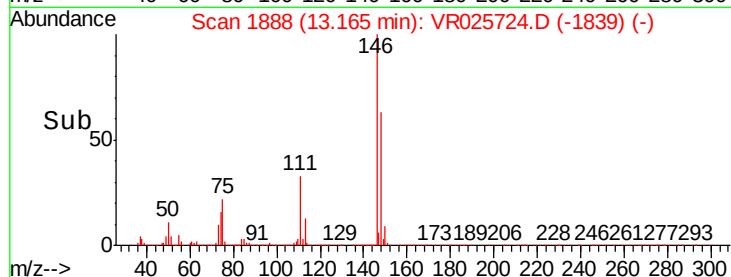
148 63.0 46.9 87.1



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: 4.16 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

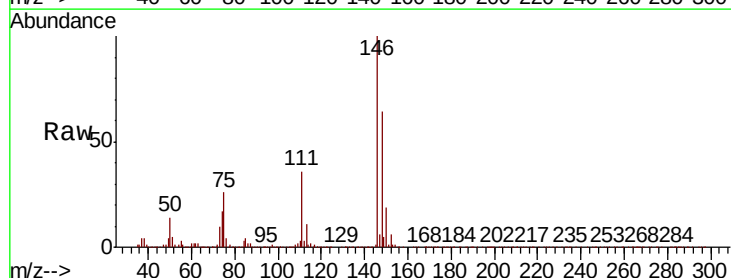
Tgt Ion:146 Resp: 447962

Ion Ratio Lower Upper

146 100

111 35.7 26.2 48.6

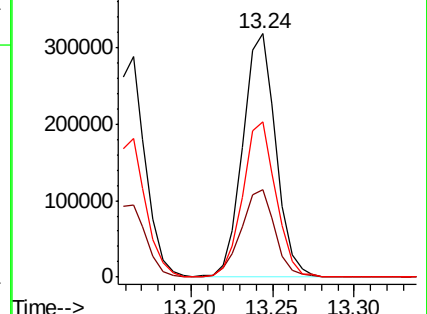
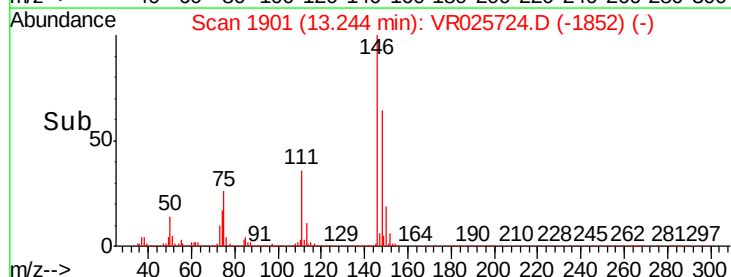
148 63.8 42.7 79.3

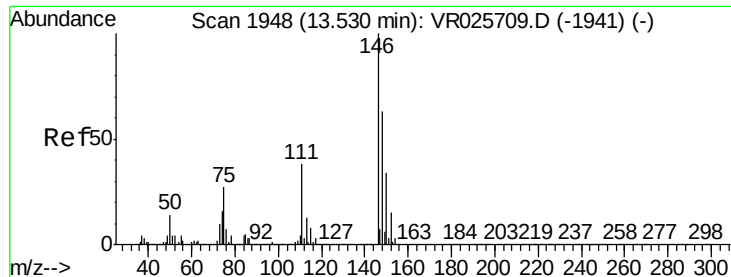


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

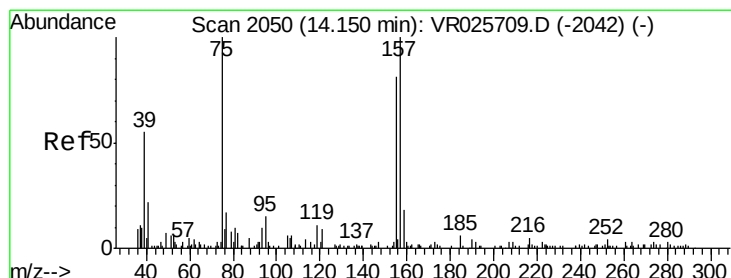
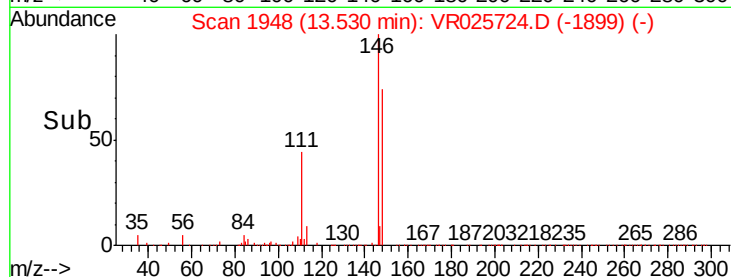
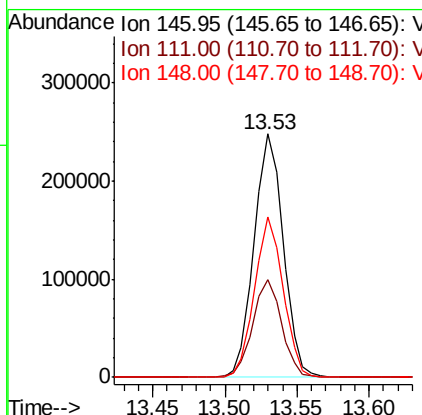
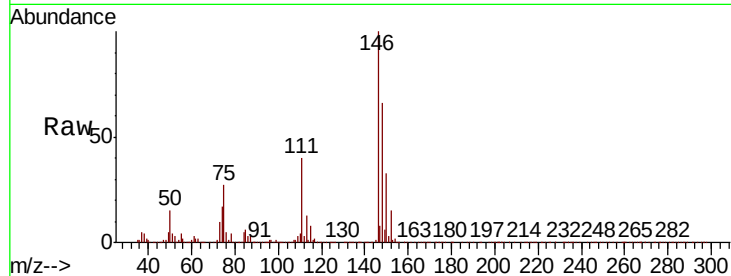




#65
 1,2-Dichlorobenzene
 Concen: 4.23 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

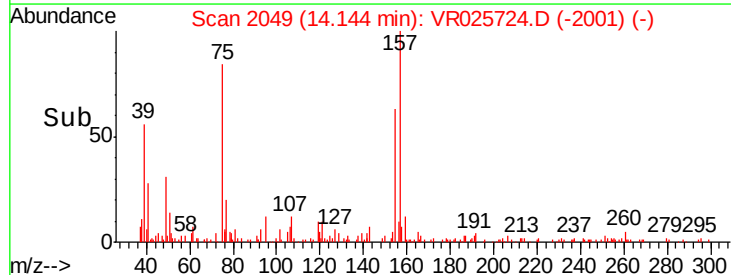
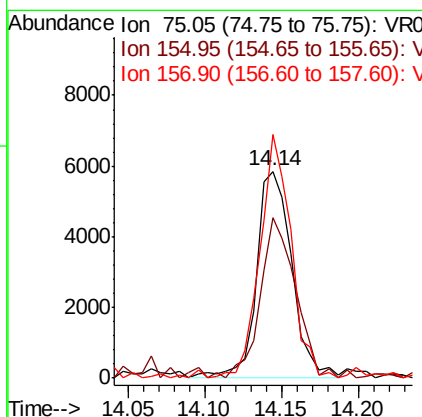
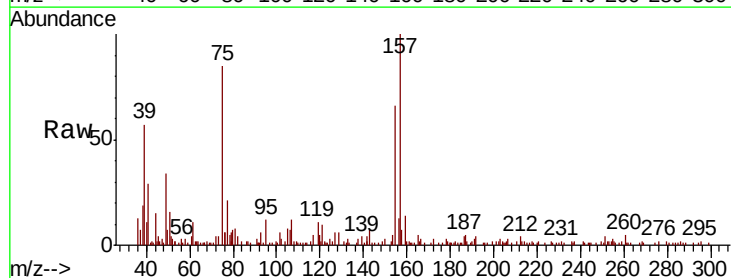
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00502

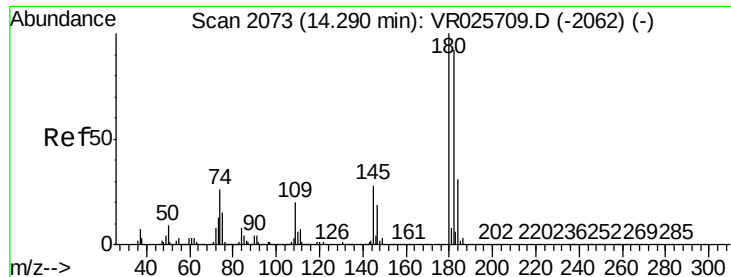
Tot Ion:146 Resp: 345924
 Ion Ratio Lower Upper
 146 100
 111 40.1 35.2 52.8
 148 65.7 52.1 78.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.92 ug/L
 RT: 14.14 min Scan# 2049
 Delta R.T. -0.01 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

Tgt Ion: 75 Resp: 9434
 Ion Ratio Lower Upper
 75 100
 155 77.6 79.3 118.9#
 157 117.7 81.4 122.2

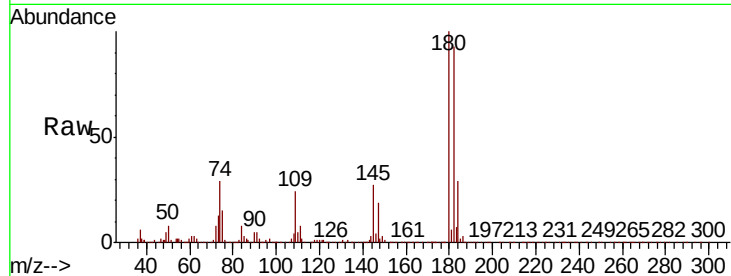




#67
 1,3,5-Trichlorobenzene
 Concen: 4.44 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

Instrument :
 MSVOA_R
 ClientSampled :
 VSTD00502

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	75.9	113.9
184	31.3	24.0	36.0
145	28.8	23.0	34.4



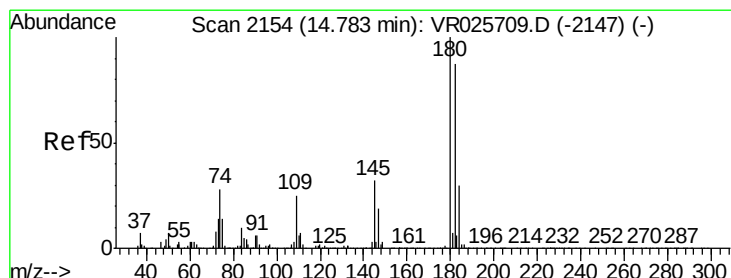
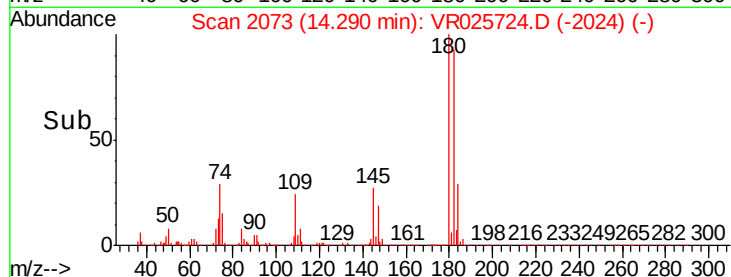
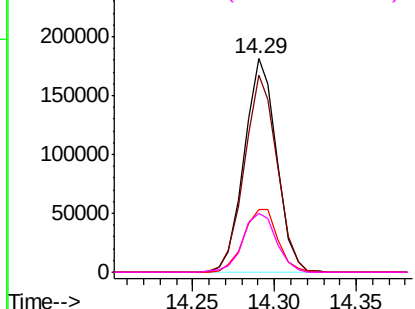
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

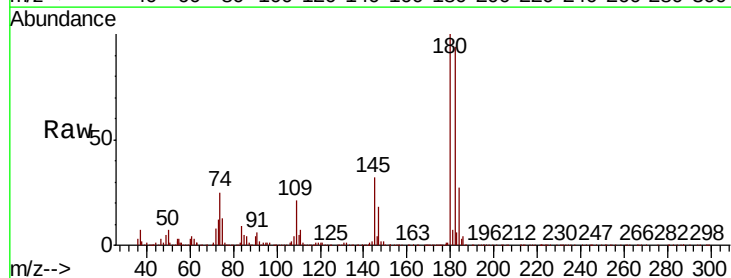
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.28 ug/L
 RT: 14.78 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VR025724.D
 Acq: 13 Sep 2018 20:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.6	115.0
145	29.3	24.8	37.2

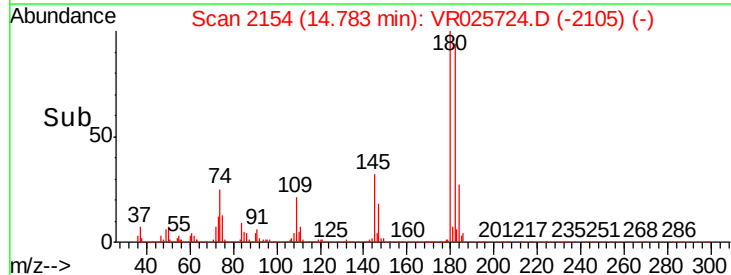
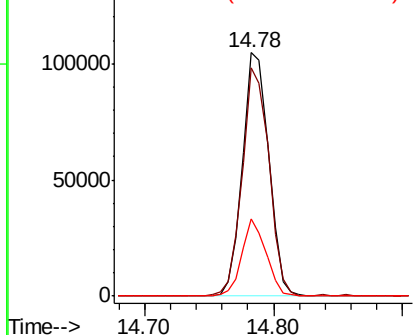


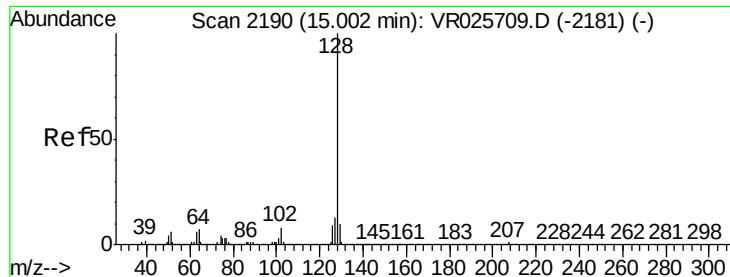
Abundance

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: 4.03 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

Instrument :

MSVOA_R

ClientSampleId :

VSTD00502

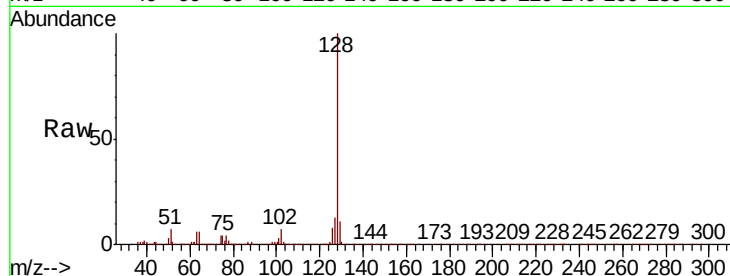
Tot Ion:128 Resp: 155895

Ion Ratio Lower Upper

128 100

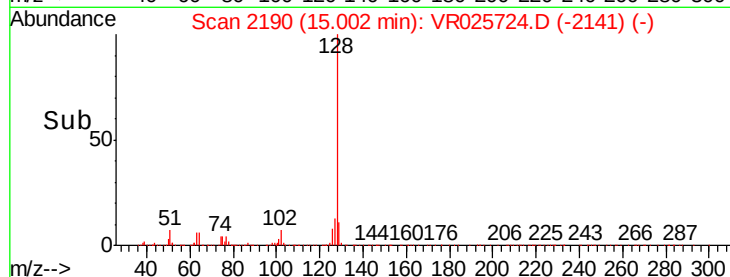
127 12.8 10.3 15.5

129 10.7 9.0 13.6

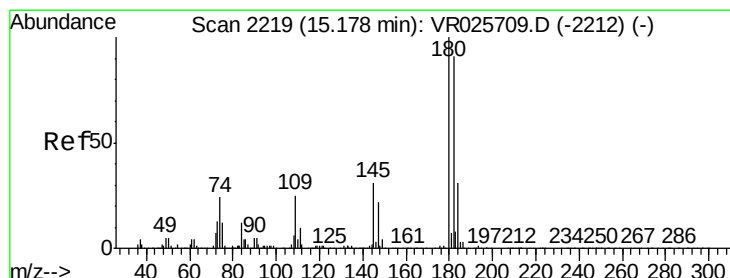


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

15.00



Time-->



#70

1,2,3-Trichlorobenzene

Concen: 4.47 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VR025724.D

Acq: 13 Sep 2018 20:58

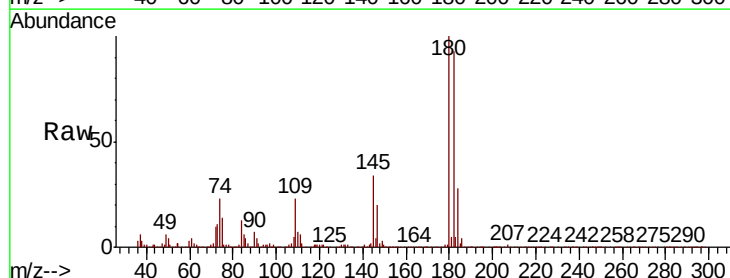
Tgt Ion:180 Resp: 122145

Ion Ratio Lower Upper

180 100

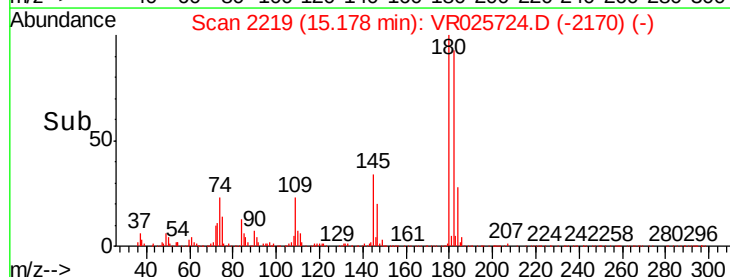
182 94.2 80.2 120.4

145 30.8 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

15.18



Time-->