

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR041119\
 Data File : VR026574.D
 Acq On : 11 Apr 2019 18:04
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

Quant Time: Apr 12 02:03:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR041119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 12 01:57:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	619101	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.28	117	515516	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	216241	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	195407	4.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.20%
7) Chloroethane-d5	2.63	69	174086	4.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.20%
11) 1,1-Dichloroethene-d2	3.61	63	570250	4.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.60%
20) 2-Butanone-d5	6.58	46	217995	49.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.76%
24) Chloroform-d	7.20	84	427718	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
26) 1,2-Dichloroethane-d4	7.89	65	181522	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
32) Benzene-d6	7.85	84	794547	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	8.89	67	208276	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	9.96	98	755211	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
43) trans-1,3-Dichloropropene-	10.23	79	47811	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
46) 2-Hexanone-d5	10.59	63	191674	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	85644	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.20%
64) 1,2-Dichlorobenzene-d4	13.51	152	150641	4.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.83	85	300824	4.528	ug/L	97
3) Chloromethane	2.01	50	315273	4.702	ug/L	94
5) Vinyl chloride	2.15	62	312255	4.541	ug/L	95
6) Bromomethane	2.52	94	190929	4.722	ug/L	91
8) Chloroethane	2.66	64	177312	4.493	ug/L	95
9) Trichlorofluoromethane	2.93	101	471765	4.607	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.67	101	236321	4.430	ug/L	98
12) 1,1-Dichloroethene	3.62	96	267041	4.582	ug/L	89
13) Acetone	3.69	43	208463	45.784	ug/L	98
14) Carbon disulfide	3.92	76	768317	5.009	ug/L	99
15) Methyl Acetate	4.19	43	54925	4.446	ug/L #	77
16) Methylene chloride	4.40	84	218133	4.187	ug/L	95
17) Methyl tert-butyl Ether	4.89	73	262997	4.800	ug/L	98
18) trans-1,2-Dichloroethene	4.88	96	244237	4.649	ug/L	99
19) 1,1-Dichloroethane	5.69	63	442304	4.677	ug/L	99
21) 2-Butanone	6.69	43	292749	53.425	ug/L	98
22) cis-1,2-Dichloroethene	6.67	96	221817	5.066	ug/L #	91

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 Misc : 25mL/MSVOA R/WATER
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Instrument :
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 ClientSampleId :
 VSTD00570

Quant Time: Apr 12 02:03:10 2019
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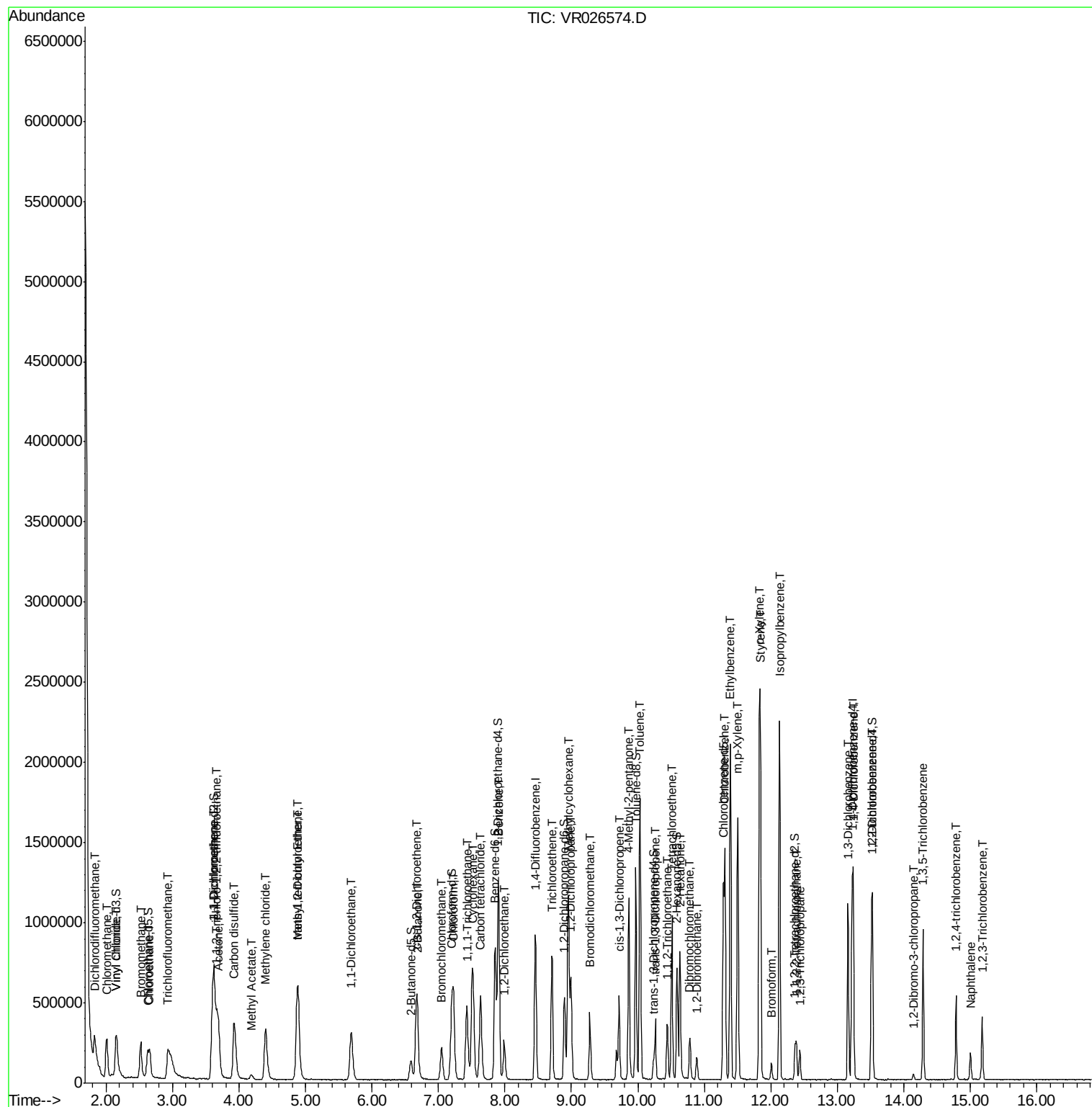
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.05	128	66898	4.664	ug/L	98
25) Chloroform	7.23	83	439679	4.688	ug/L	98
27) 1,2-Dichloroethane	7.99	62	219850	4.694	ug/L	100
29) 1,1,1-Trichloroethane	7.43	97	382653	4.928	ug/L	98
30) Cyclohexane	7.51	56	399257	5.528	ug/L	98
31) Carbon tetrachloride	7.63	117	383188	4.848	ug/L	97
33) Benzene	7.90	78	990595	5.009	ug/L	100
34) Trichloroethene	8.71	95	253756	4.794	ug/L	98
35) Methylcyclohexane	8.95	83	393316	5.413	ug/L	98
37) 1,2-Dichloropropane	8.99	63	205035	4.804	ug/L	99
38) Bromodichloromethane	9.28	83	242374	4.916	ug/L	99
39) cis-1,3-Dichloropropene	9.72	75	247000	5.318	ug/L	99
40) 4-Methyl-2-pentanone	9.86	43	703218	55.613	ug/L	100
42) Toluene	10.03	91	1054943	5.140	ug/L	97
44) trans-1,3-Dichloropropene	10.26	75	166552	5.151	ug/L	100
45) 1,1,2-Trichloroethane	10.45	97	85826	4.553	ug/L	95
47) Tetrachloroethene	10.51	164	186294	4.819	ug/L	93
48) 2-Hexanone	10.63	43	488160	54.371	ug/L	99
49) Dibromochloromethane	10.79	129	116237	5.071	ug/L	95
50) 1,2-Dibromoethane	10.88	107	75097	4.701	ug/L #	100
51) Chlorobenzene	11.31	112	569881	4.816	ug/L	99
52) Ethylbenzene	11.39	91	1232792	5.265	ug/L	100
53) m,p-Xylene	11.50	106	442904	5.269	ug/L	96
54) o-Xylene	11.83	106	393043	5.231	ug/L	98
55) Styrene	11.84	104	640828	5.327	ug/L	95
56) Isopropylbenzene	12.13	105	1153130	5.545	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.38	83	84409	4.692	ug/L	95
59) 1,2,3-Trichloropropane	12.43	75	64582	4.811	ug/L	100
61) Bromoform	12.01	173	41271	4.542	ug/L	99
62) 1,3-Dichlorobenzene	13.16	146	334846	4.994	ug/L	95
63) 1,4-Dichlorobenzene	13.24	146	365349	4.545	ug/L	97
65) 1,2-Dichlorobenzene	13.53	146	280571	4.832	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.15	75	9374	4.225	ug/L #	77
67) 1,3,5-Trichlorobenzene	14.29	180	211233	4.796	ug/L	97
68) 1,2,4-trichlorobenzene	14.79	180	116275	4.743	ug/L	96
69) Naphthalene	15.00	128	107359	4.768	ug/L	97
70) 1,2,3-Trichlorobenzene	15.18	180	95462	5.493	ug/L	99

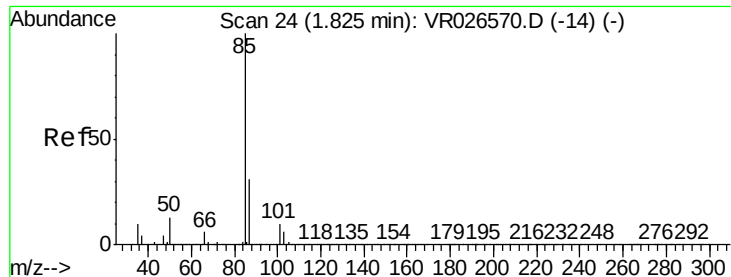
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.528 ug/L

RT: 1.83 min Scan# 25

Delta R.T. 0.01 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

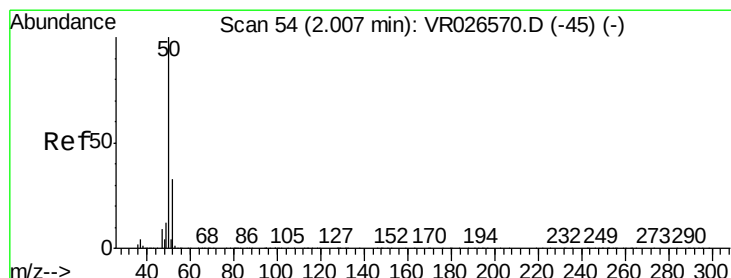
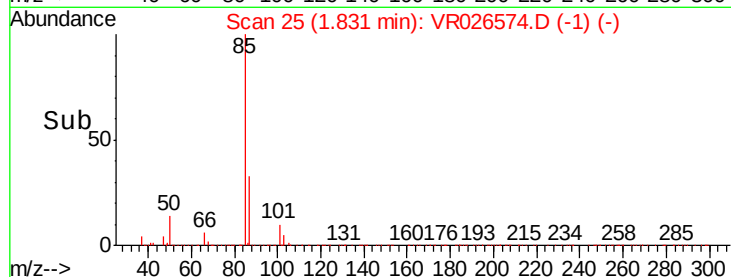
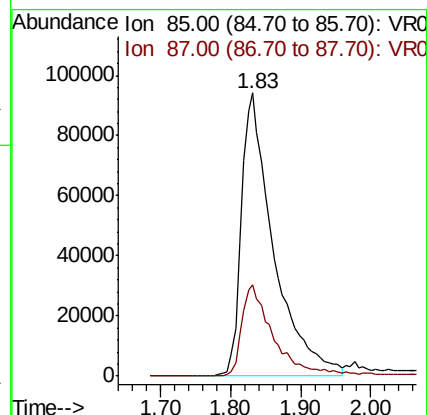
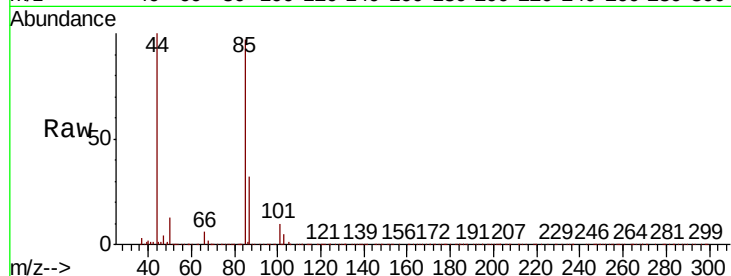
VSTD00570

Tot Ion: 85 Resp: 300824

Ion Ratio Lower Upper

85 100

87 31.2 26.2 39.4



#3

Chloromethane

Concen: 4.702 ug/L

RT: 2.01 min Scan# 54

Delta R.T. 0.00 min

Lab File: VR026574.D

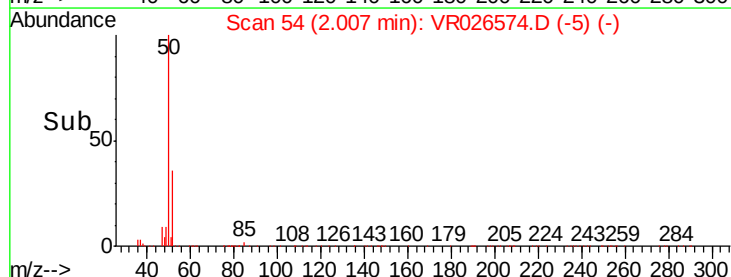
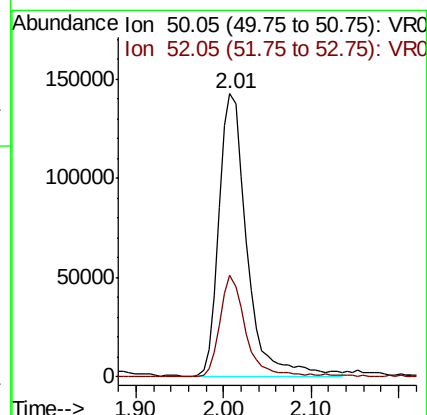
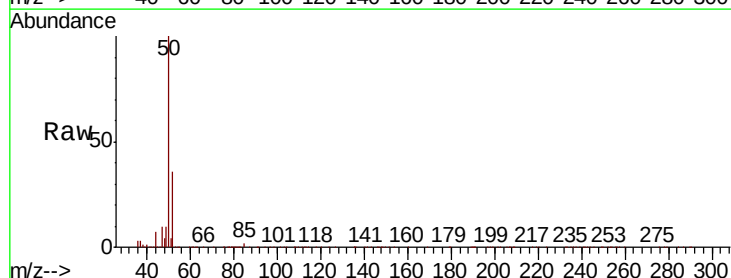
Acq: 11 Apr 2019 18:04

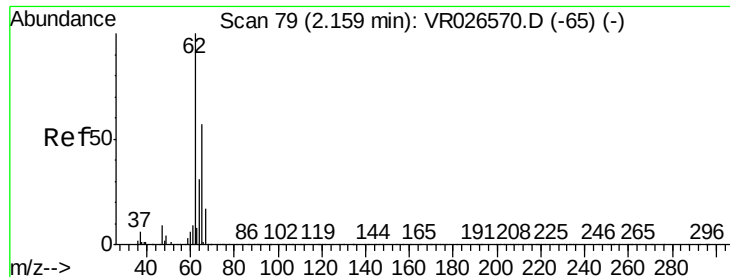
Tgt Ion: 50 Resp: 315273

Ion Ratio Lower Upper

50 100

52 35.8 22.8 42.4





#5

Vinyl chloride

Concen: 4.541 ug/L

RT: 2.15 min Scan# 78

Delta R.T. -0.01 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampled :

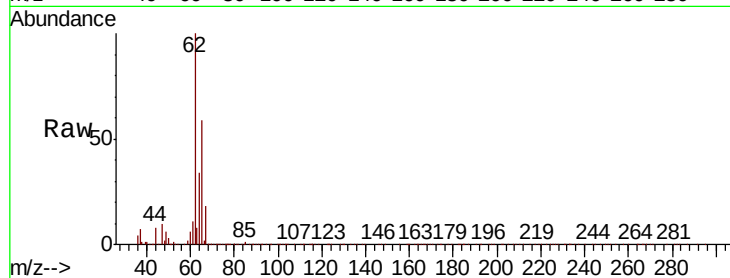
VSTD00570

Tot Ion: 62 Resp: 312255

Ion Ratio Lower Upper

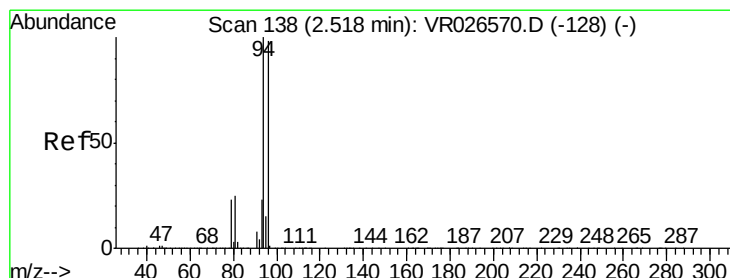
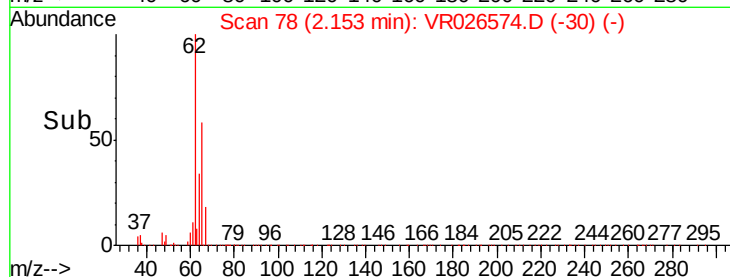
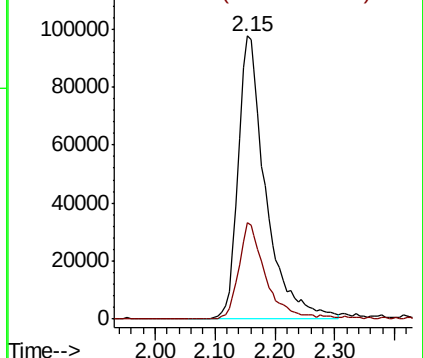
62 100

64 33.9 21.6 40.2



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 64.10 (63.80 to 64.80): VR0



#6

Bromomethane

Concen: 4.722 ug/L

RT: 2.52 min Scan# 138

Delta R.T. 0.00 min

Lab File: VR026574.D

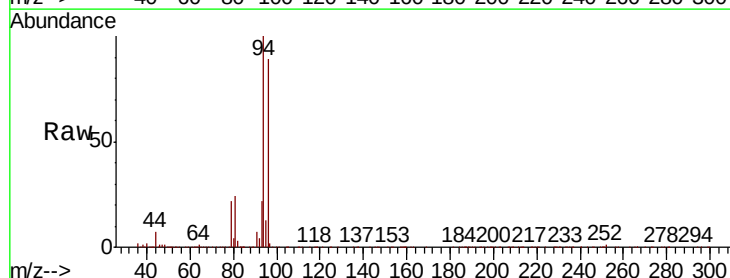
Acq: 11 Apr 2019 18:04

Tgt Ion: 94 Resp: 190929

Ion Ratio Lower Upper

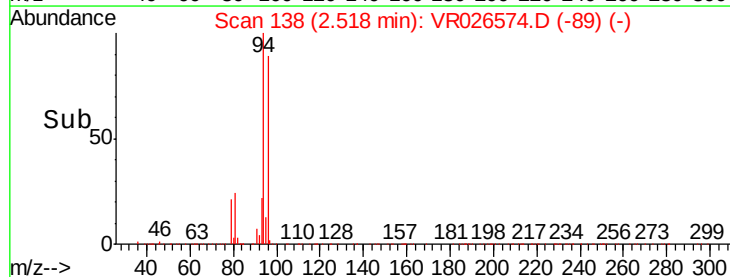
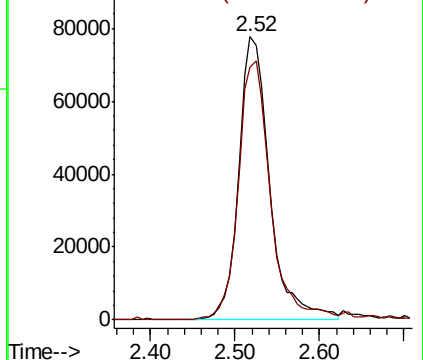
94 100

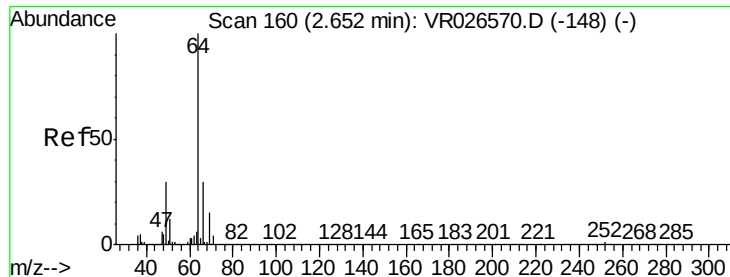
96 89.2 68.5 127.3



Abundance Ion 94.00 (93.70 to 94.70): VR0

Ion 96.00 (95.70 to 96.70): VR0

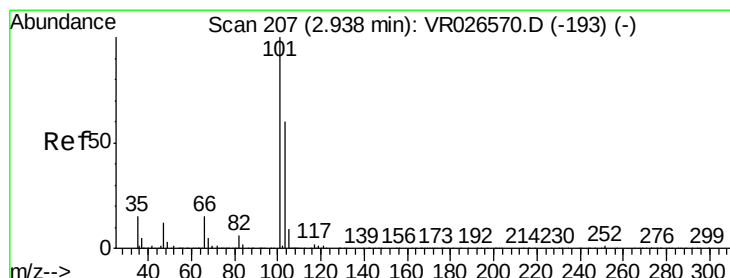
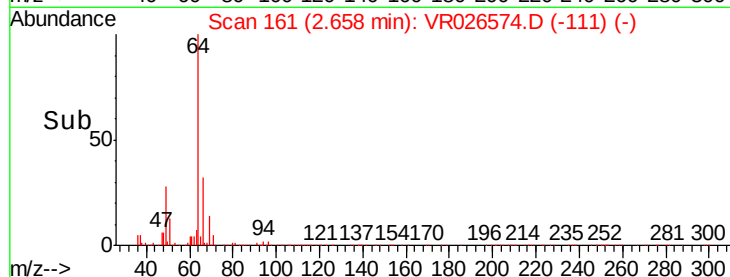
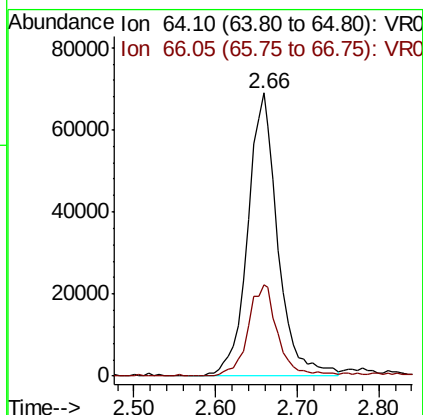
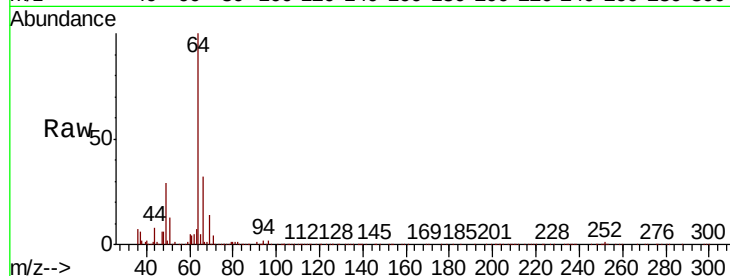




#8
Chloroethane
Concen: 4.493 ug/L
RT: 2.66 min Scan# 161
Delta R.T. 0.01 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

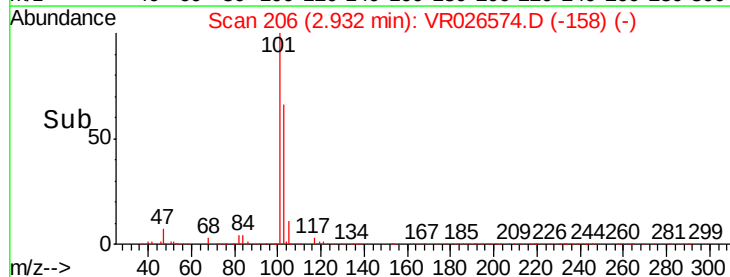
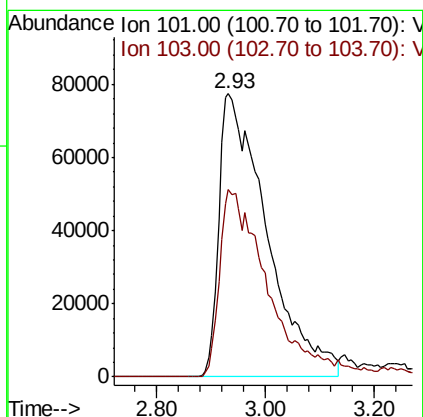
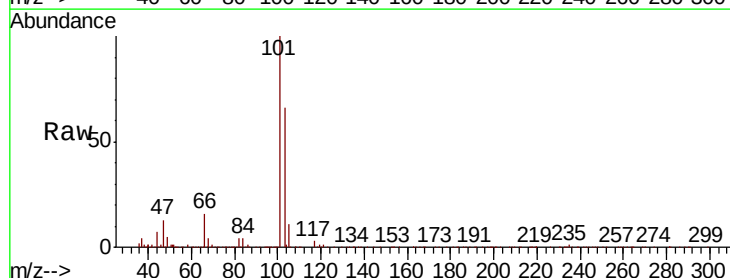
Instrument :
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VSTD00570

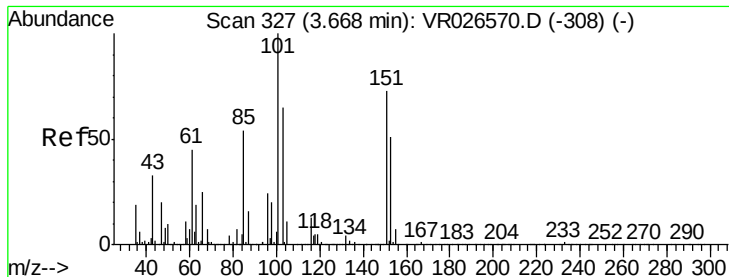
Tot Ion: 64 Resp: 177312
Ion Ratio Lower Upper
64 100
66 32.1 20.7 38.5



#9
Trichlorofluoromethane
Concen: 4.607 ug/L
RT: 2.93 min Scan# 206
Delta R.T. -0.01 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Tgt Ion:101 Resp: 471765
Ion Ratio Lower Upper
101 100
103 64.6 50.7 76.1





#10

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

Concen: 4.430 ug/L

RT: 3.67 min Scan# 327

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

VSTD00570

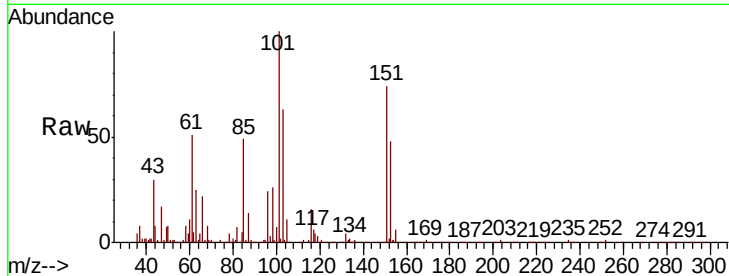
Tot Ion:101 Resp: 236321

Ion Ratio Lower Upper

101 100

85 49.4 40.4 60.6

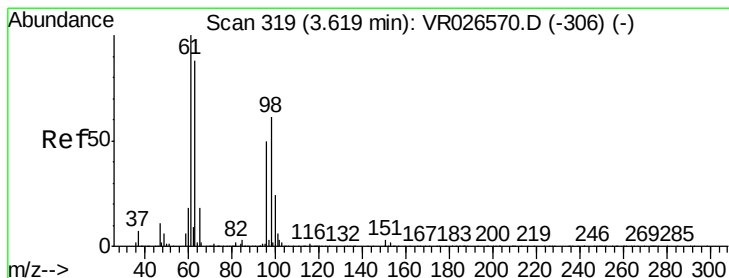
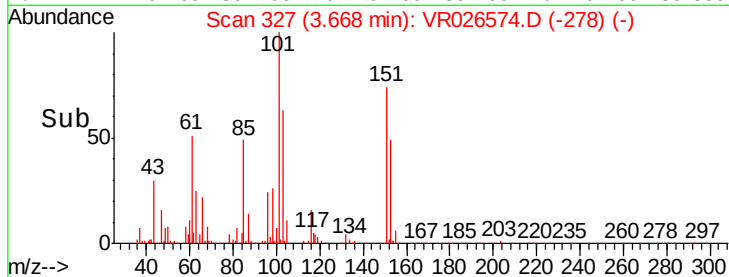
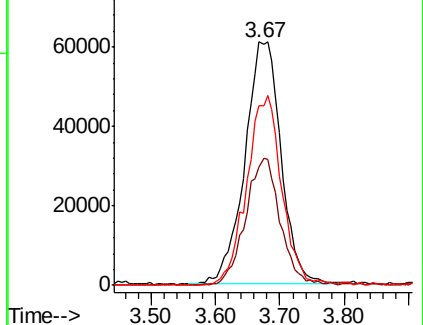
151 75.6 59.4 89.0



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: 4.582 ug/L

RT: 3.62 min Scan# 319

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

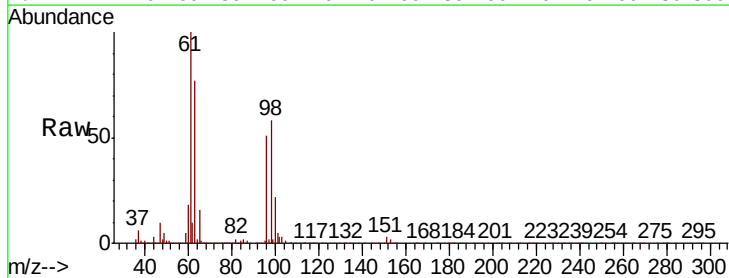
Tgt Ion: 96 Resp: 267041

Ion Ratio Lower Upper

96 100

61 195.8 140.8 261.6

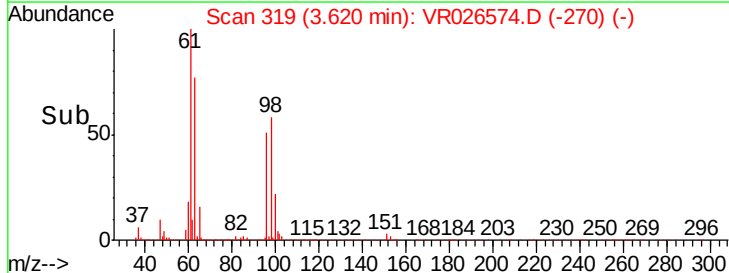
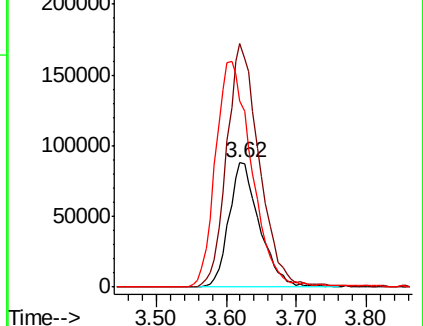
63 150.0 124.0 230.4

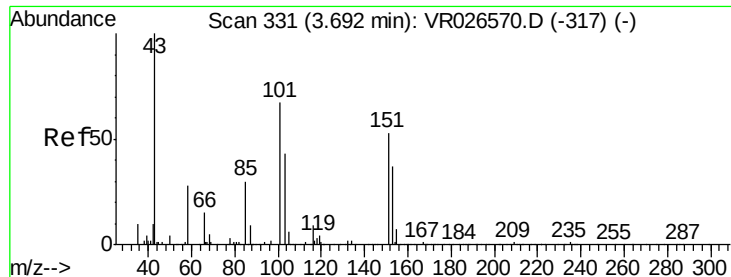


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 45.784 ug/L

RT: 3.69 min Scan# 331

Delta R.T. 0.00 min

Lab File: VR026574.D

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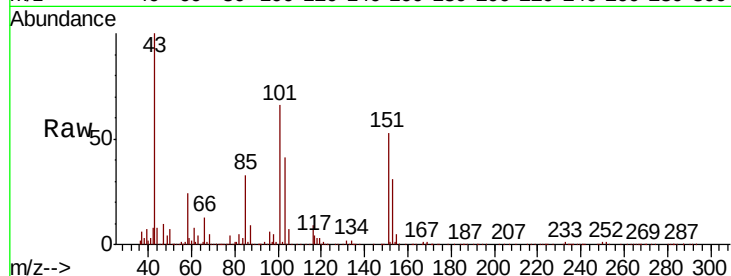
VSTD00570

Tot Ion: 43 Resp: 208463

Ion Ratio Lower Upper

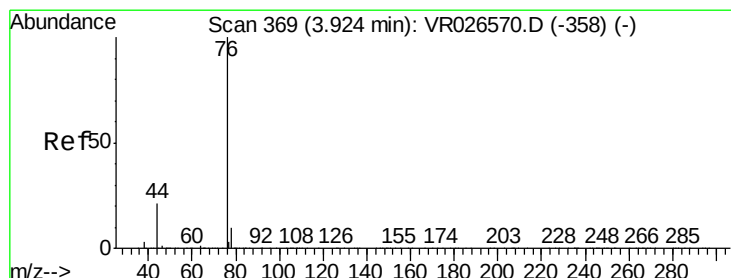
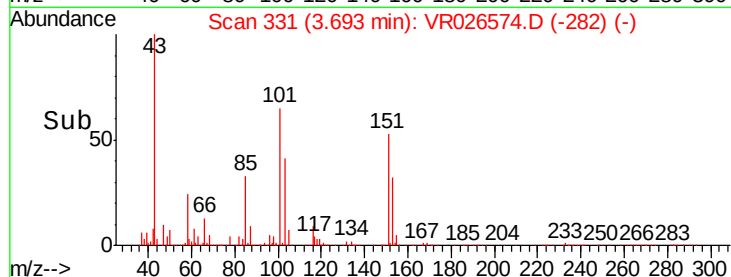
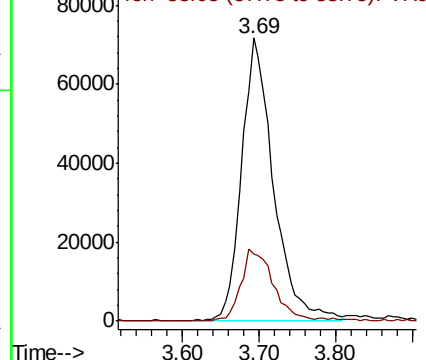
43 100

58 25.5 0.0 49.4



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0



#14

Carbon disulfide

Concen: 5.009 ug/L

RT: 3.92 min Scan# 369

Delta R.T. 0.00 min

Lab File: VR026574.D

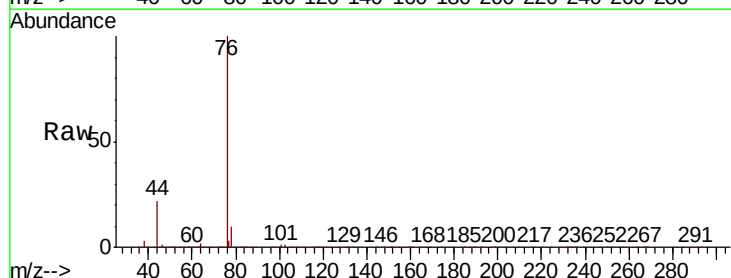
Acq: 11 Apr 2019 18:04

Tgt Ion: 76 Resp: 768317

Ion Ratio Lower Upper

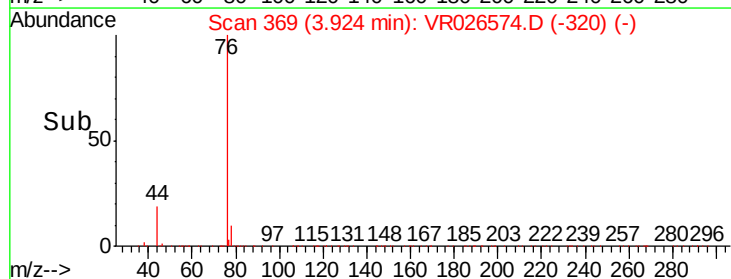
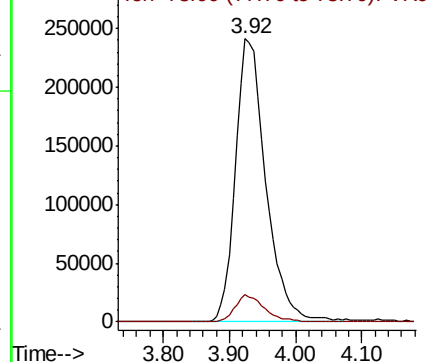
76 100

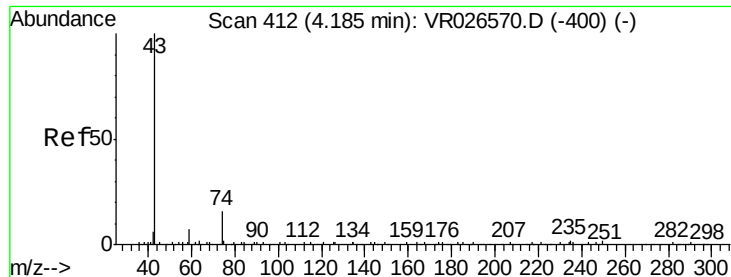
78 9.7 7.9 11.9



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0





#15

Methyl Acetate

Concen: 4.446 ug/L

RT: 4.19 min Scan# 412

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

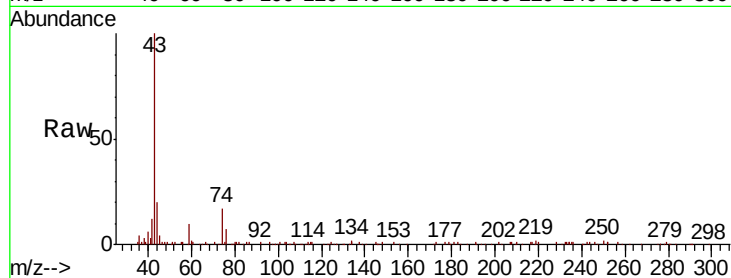
VSTD00570

Tot Ion: 43 Resp: 54925

Ion Ratio Lower Upper

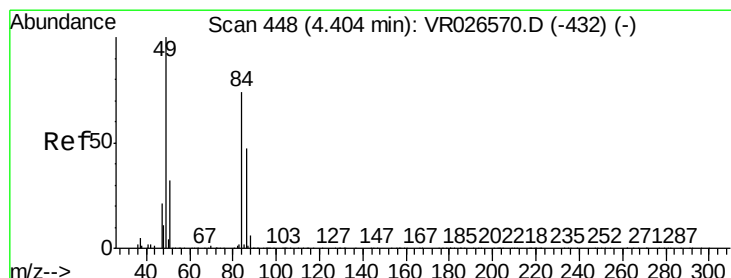
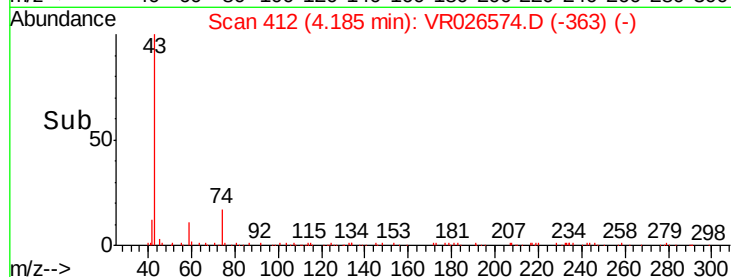
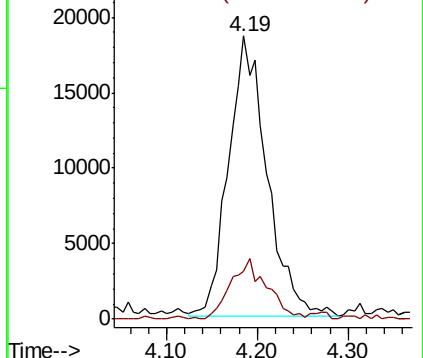
43 100

74 20.0 9.0 13.6#



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 74.05 (73.75 to 74.75): VR0



#16

Methylene chloride

Concen: 4.187 ug/L

RT: 4.40 min Scan# 448

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

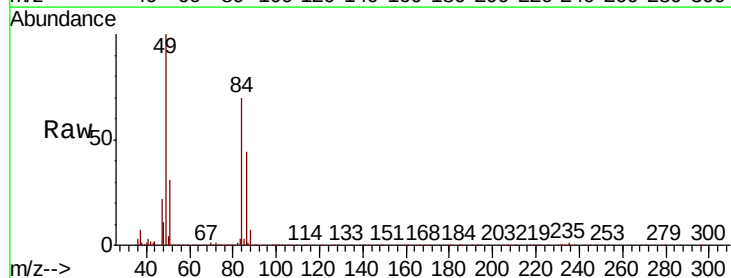
Tgt Ion: 84 Resp: 218133

Ion Ratio Lower Upper

84 100

86 63.1 45.1 83.7

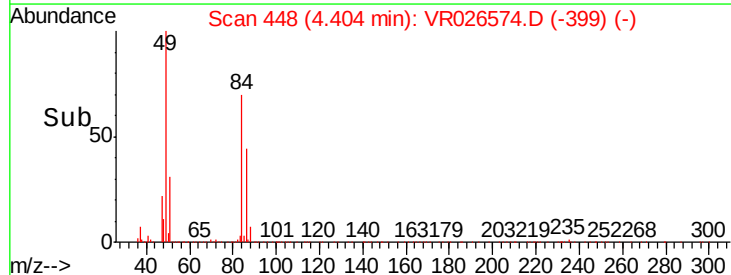
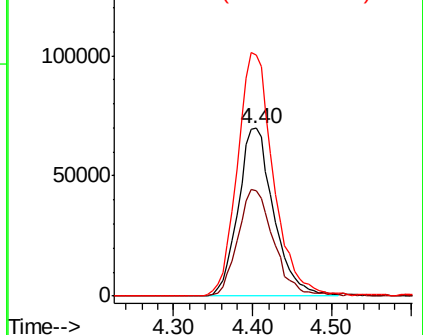
49 143.7 95.2 176.8

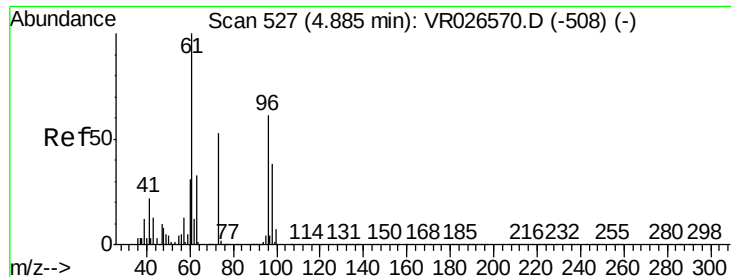


Abundance Ion 84.05 (83.75 to 84.75): VR0

Ion 86.00 (85.70 to 86.70): VR0

Ion 49.10 (48.80 to 49.80): VR0

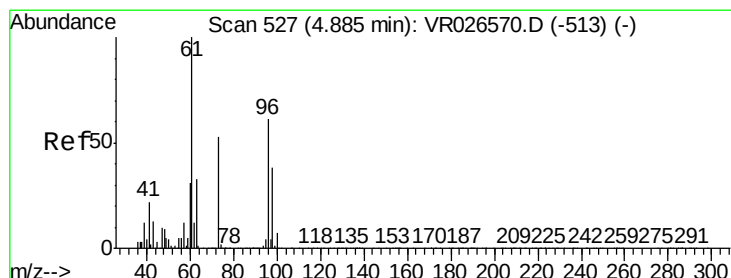
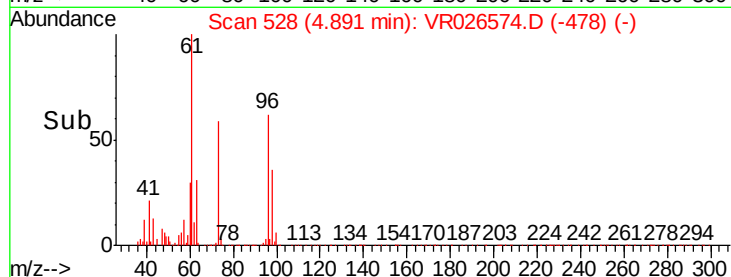
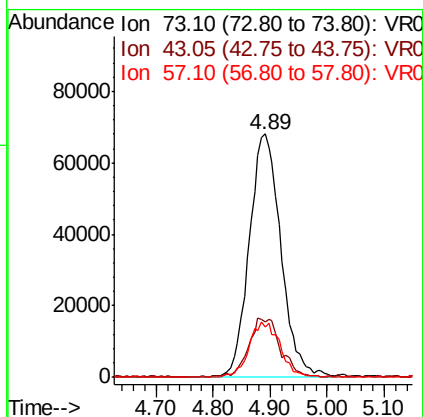
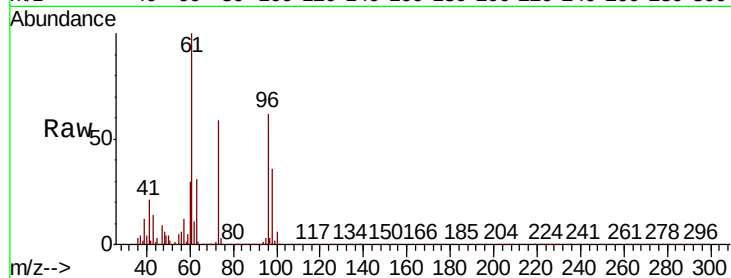




#17
Methyl tert-butyl Ether
Concen: 4.800 ug/L
RT: 4.89 min Scan# 528
Delta R.T. 0.01 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

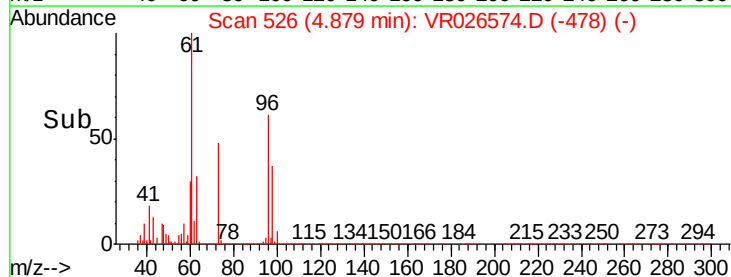
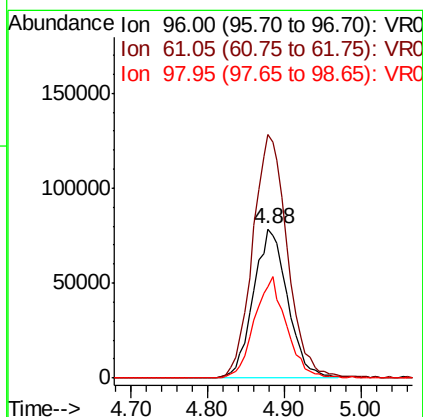
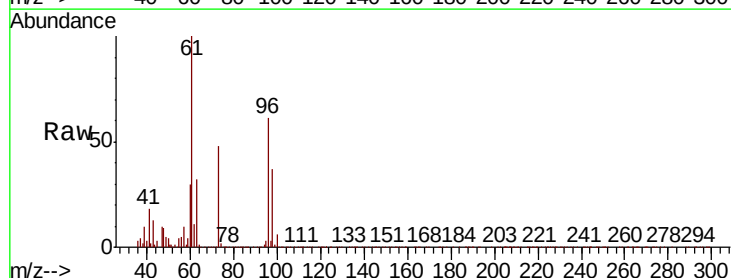
Instrument :
MSVOA_R
ClientSampleId :
VSTD00570

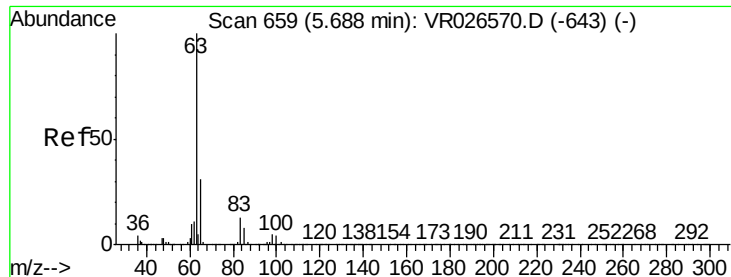
Tot Ion	Ratio	Lower	Upper
73	100		
43	24.5	20.6	30.8
57	22.0	18.6	27.8



#18
trans-1,2-Dichloroethene
Concen: 4.649 ug/L
RT: 4.88 min Scan# 526
Delta R.T. -0.01 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.5	115.5	214.5
98	61.0	43.6	81.0

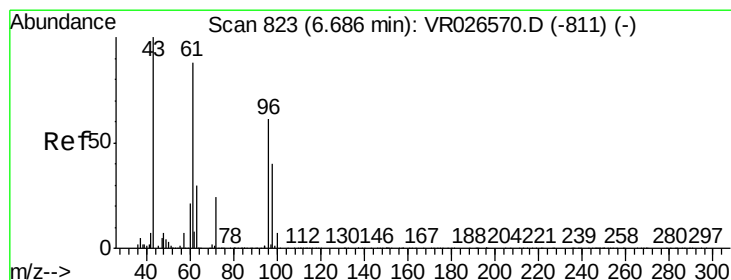
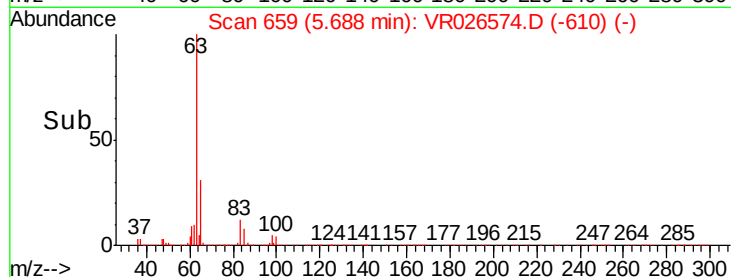
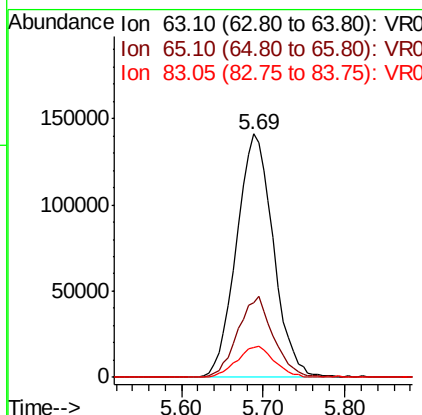
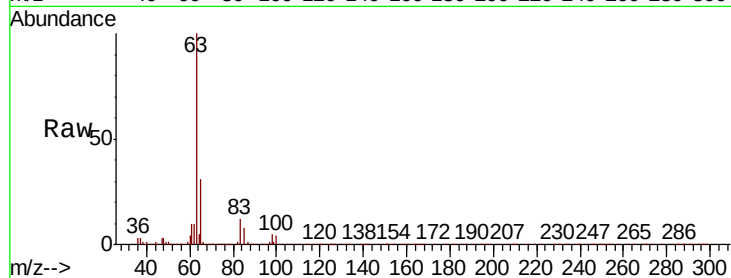




#19
 1,1-Dichloroethane
 Concen: 4.677 ug/L
 RT: 5.69 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

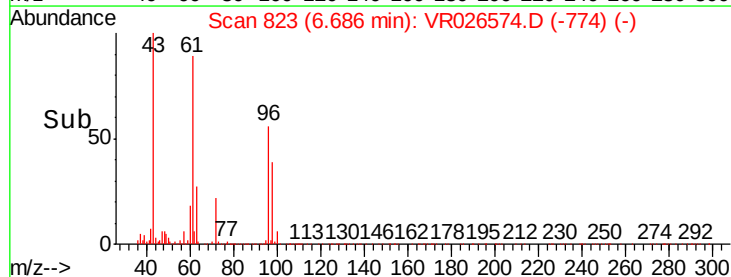
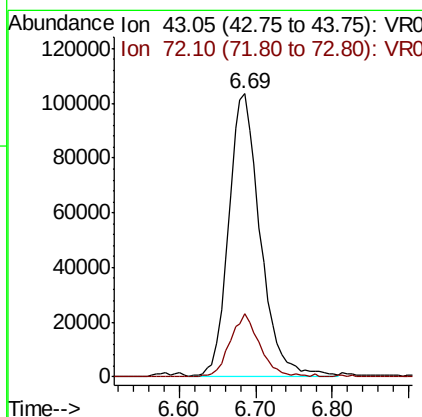
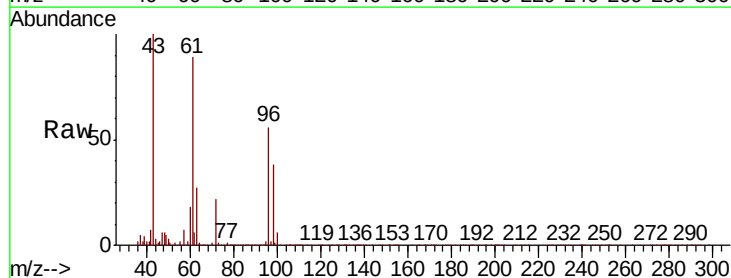
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

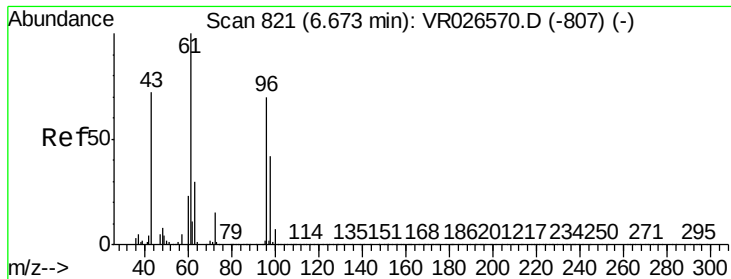
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	21.9	40.7
83	12.3	8.9	16.5



#21
 2-Butanone
 Concen: 53.425 ug/L
 RT: 6.69 min Scan# 823
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	11.1	33.3



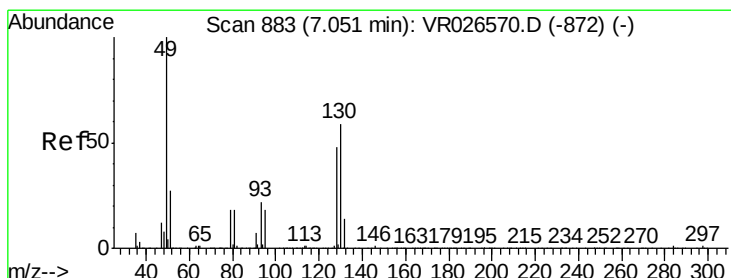
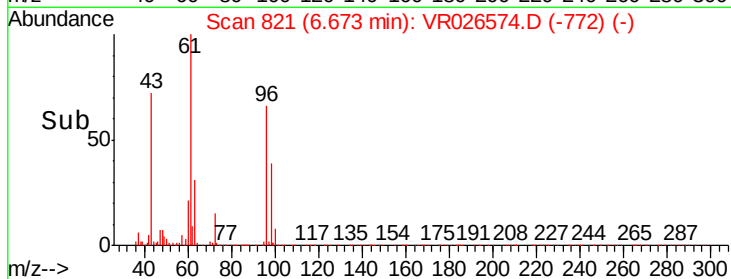
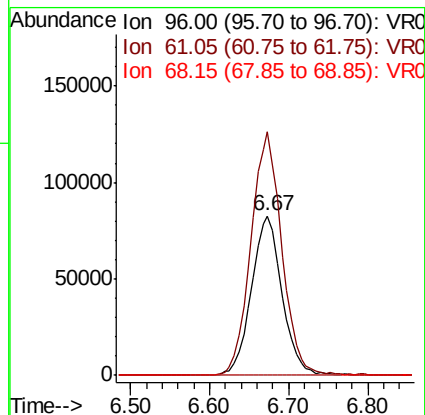
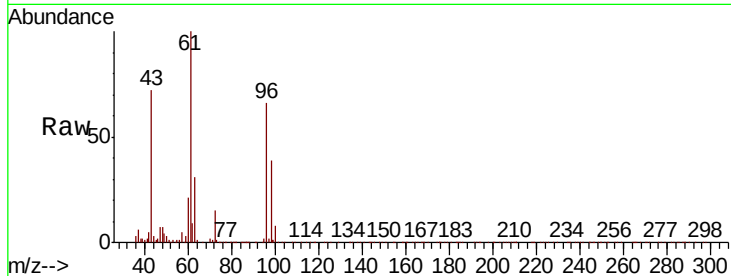


#22

cis-1,2-Dichloroethene
Concen: 5.066 ug/L
RT: 6.67 min Scan# 821
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Instrument :
MSVOA_R
ClientSampleId :
VSTD00570

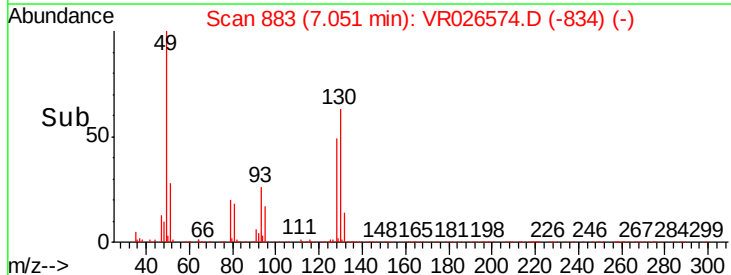
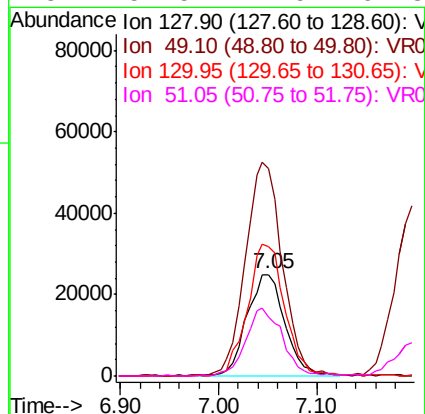
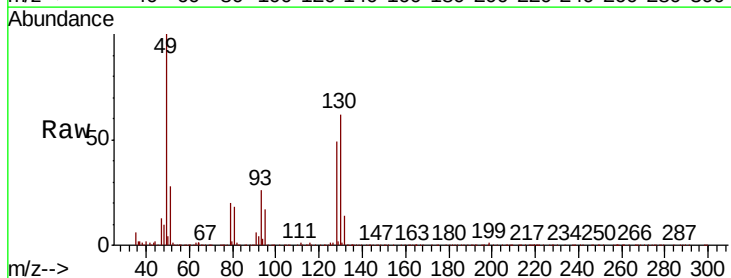
Tot Ion: 96 Resp: 221817
Ion Ratio Lower Upper
96 100
61 152.6 99.3 184.5
68 0.0 0.1 0.3#

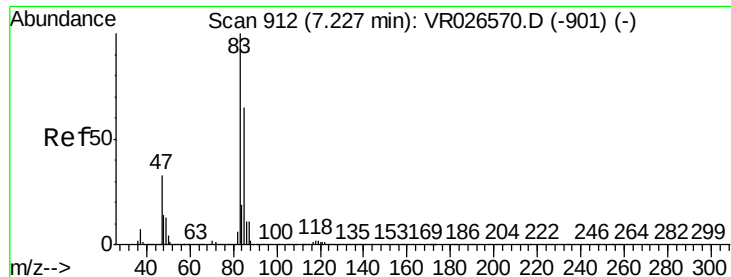


#23

Bromochloromethane
Concen: 4.664 ug/L
RT: 7.05 min Scan# 883
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Tgt Ion:128 Resp: 66898
Ion Ratio Lower Upper
128 100
49 203.9 144.4 268.2
130 126.9 86.2 160.0
51 57.5 44.9 67.3

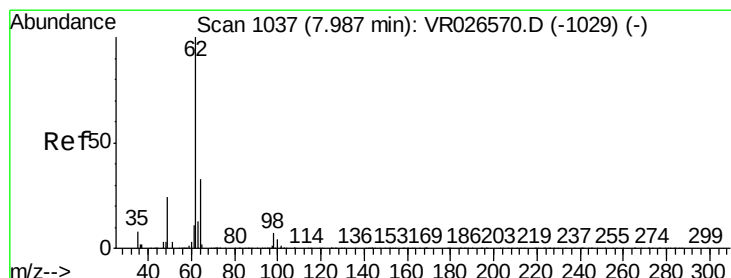
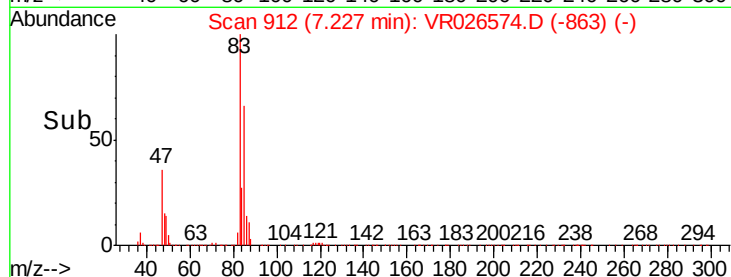
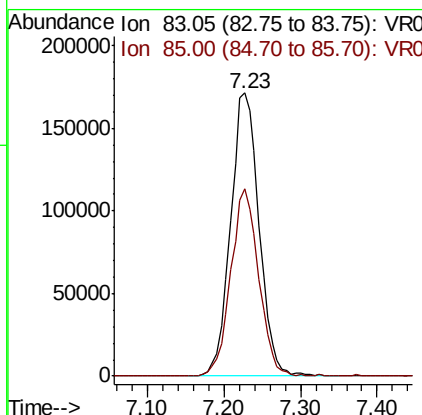
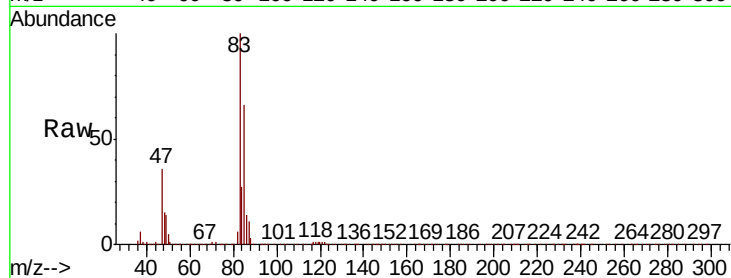




#25
Chloroform
Concen: 4.688 ug/L
RT: 7.23 min Scan# 912
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

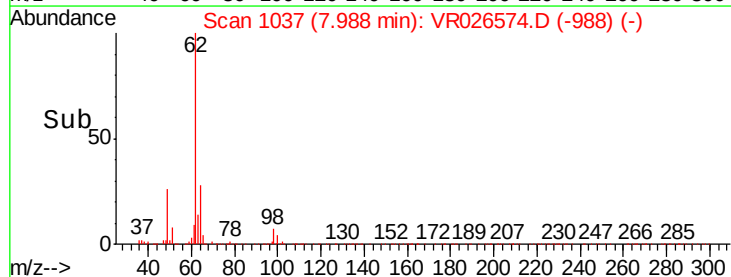
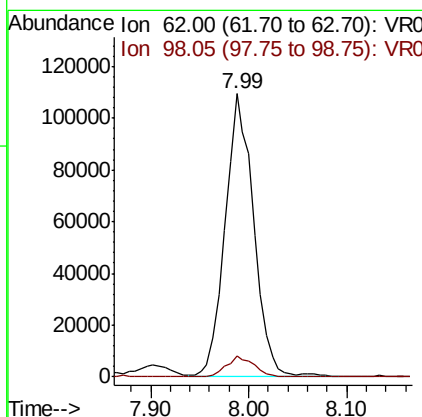
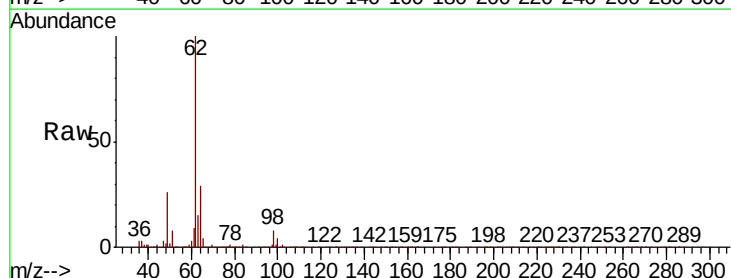
Instrument :
MSVOA_R
ClientSampleId :
VSTD00570

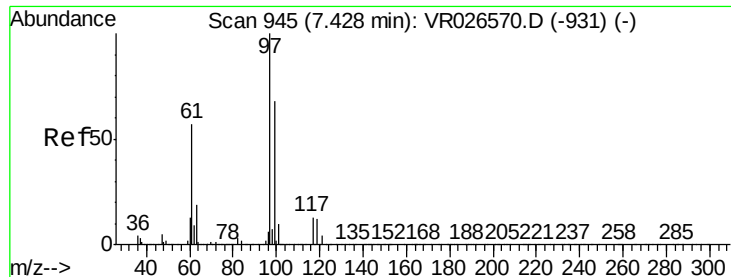
Tot Ion: 83 Resp: 439679
Ion Ratio Lower Upper
83 100
85 66.3 45.6 84.6



#27
1,2-Dichloroethane
Concen: 4.694 ug/L
RT: 7.99 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Tgt Ion: 62 Resp: 219850
Ion Ratio Lower Upper
62 100
98 7.6 6.0 9.0

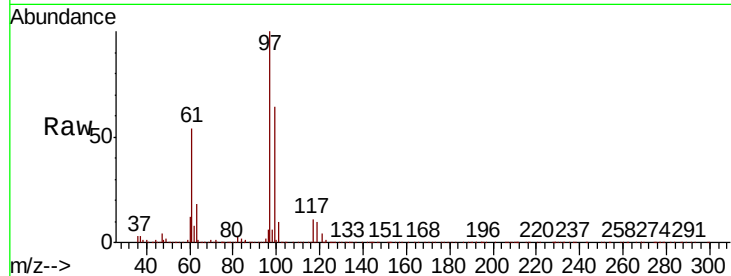




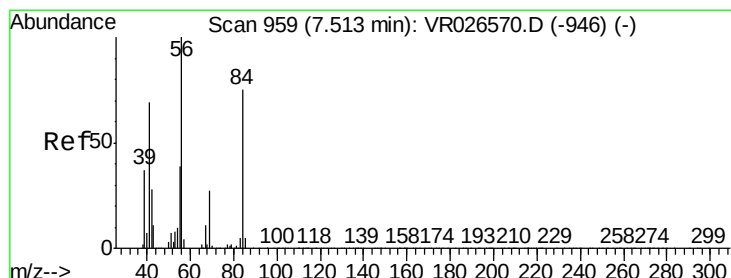
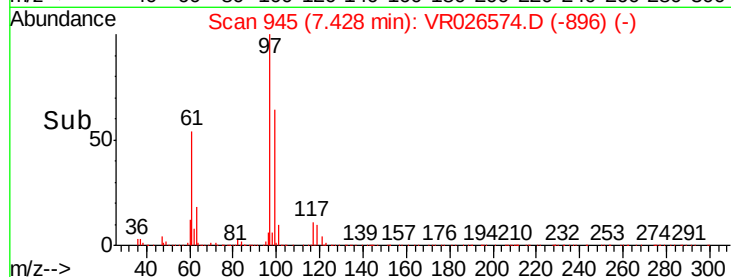
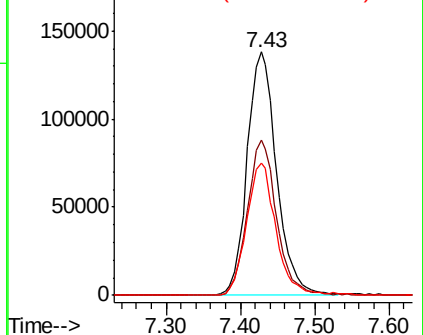
#29
 1,1,1-Trichloroethane
 Concen: 4.928 ug/L
 RT: 7.43 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

Tot Ion	Ratio	Lower	Upper
97	100		
99	63.1	52.0	78.0
61	53.8	44.5	66.7

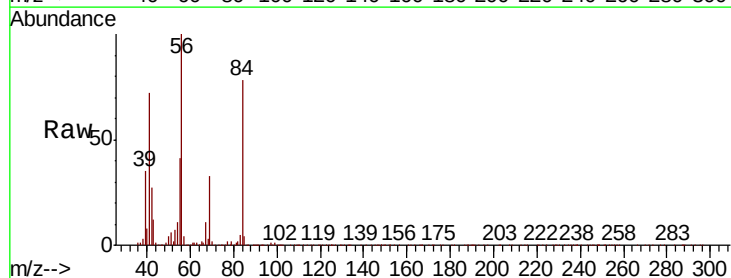


Abundance Ion 96.95 (96.65 to 97.65): VR0
 Ion 99.05 (98.75 to 99.75): VR0
 Ion 61.05 (60.75 to 61.75): VR0

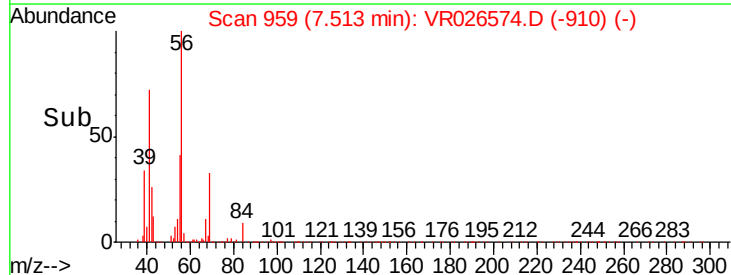
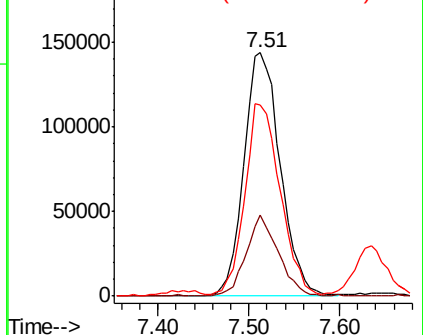


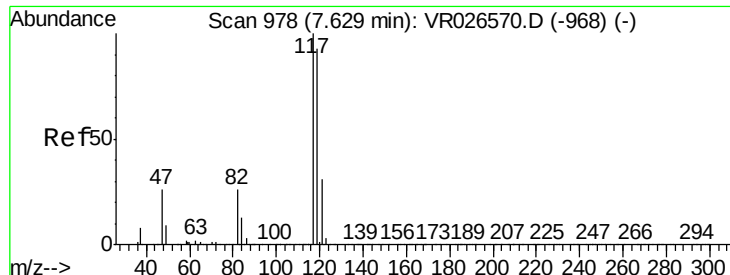
#30
 Cyclohexane
 Concen: 5.528 ug/L
 RT: 7.51 min Scan# 959
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.0	34.4
84	77.1	63.4	95.0



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

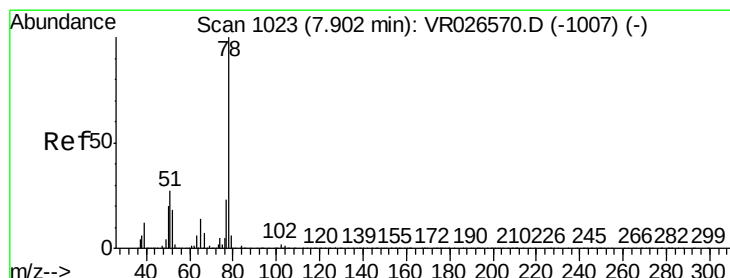
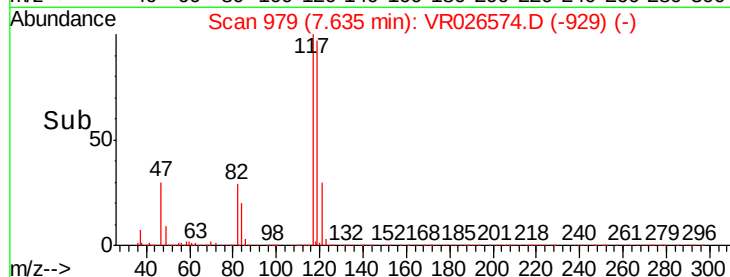
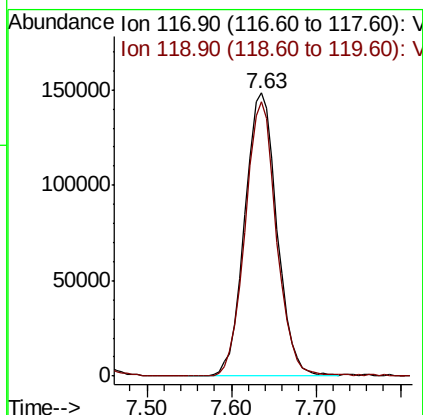
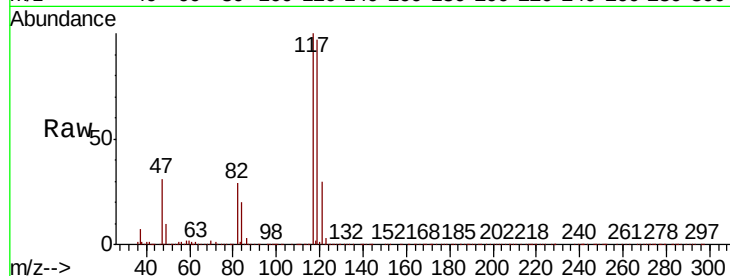




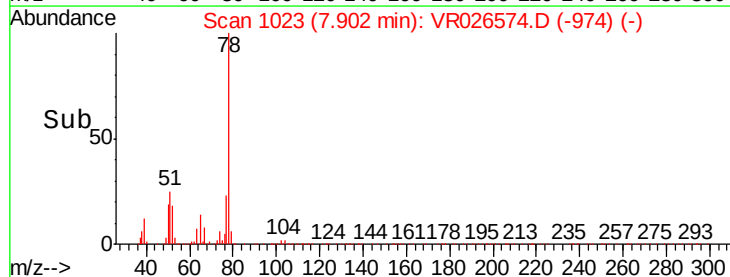
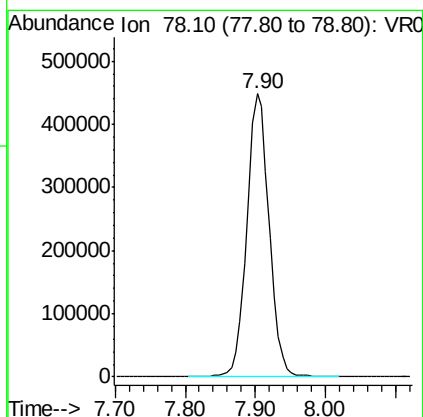
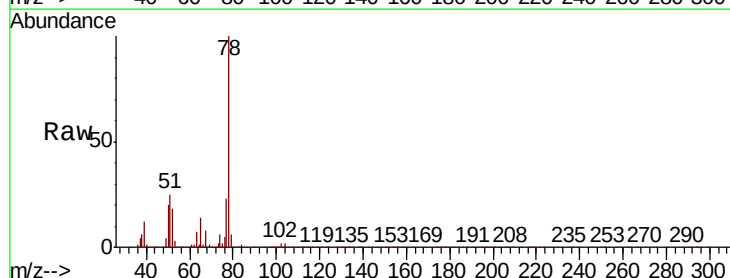
#31
Carbon tetrachloride
Concen: 4.848 ug/L
RT: 7.63 min Scan# 979
Delta R.T. 0.01 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

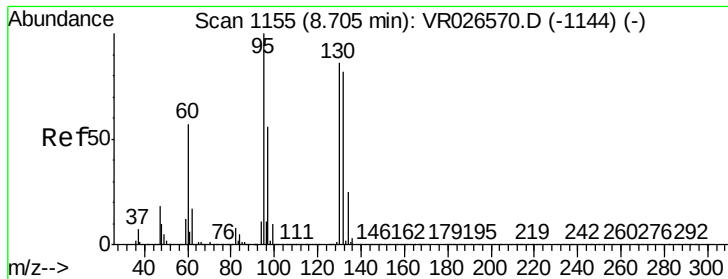
Instrument :
MSVOA_R
ClientSampleId :
VSTD00570

Tot Ion:117 Resp: 383188
Ion Ratio Lower Upper
117 100
119 94.0 77.9 116.9



#33
Benzene
Concen: 5.009 ug/L
RT: 7.90 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04
Tgt Ion: 78 Resp: 990595

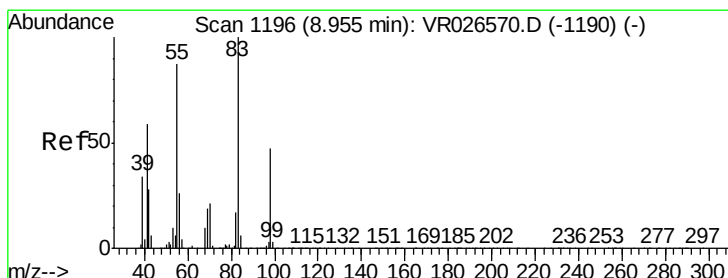
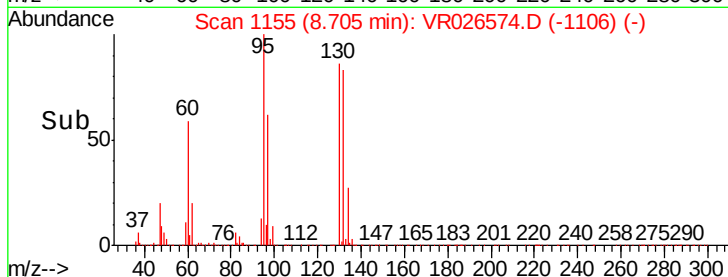
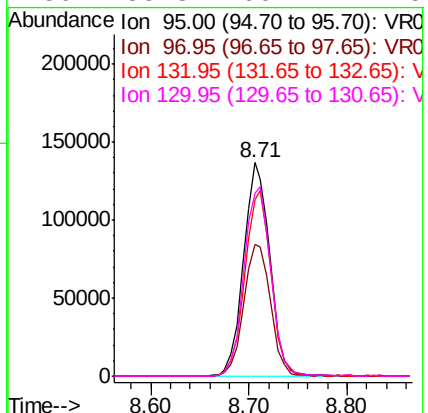
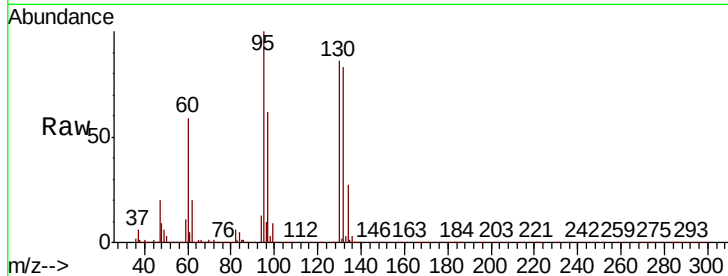




#34
 Trichloroethene
 Concen: 4.794 ug/L
 RT: 8.71 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

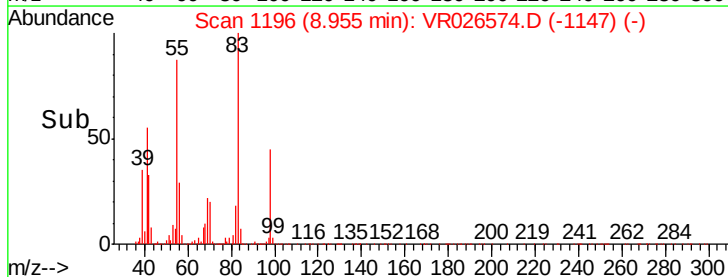
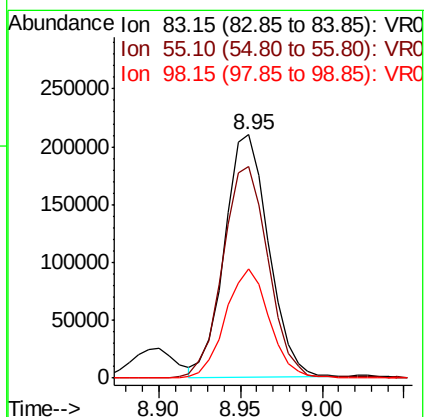
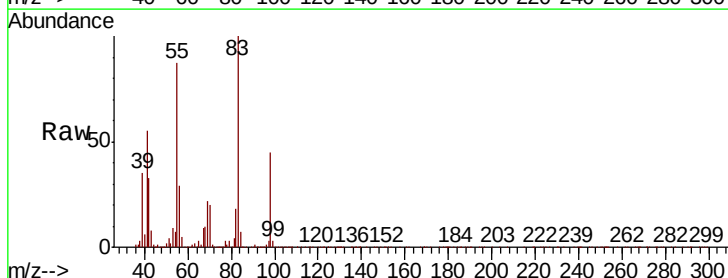
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

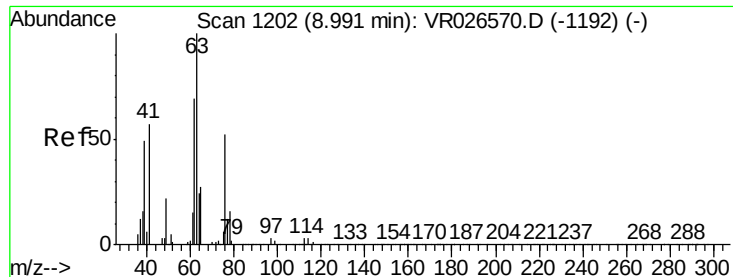
Tot Ion:	95	Resp:	253756
Ion	Ratio	Lower	Upper
95	100		
97	61.9	39.1	72.7
132	82.7	57.6	107.0
130	85.8	60.1	111.5



#35
 Methylcyclohexane
 Concen: 5.413 ug/L
 RT: 8.95 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Tgt Ion:	83	Resp:	393316
Ion	Ratio	Lower	Upper
83	100		
55	91.0	70.7	106.1
98	45.4	36.0	54.0

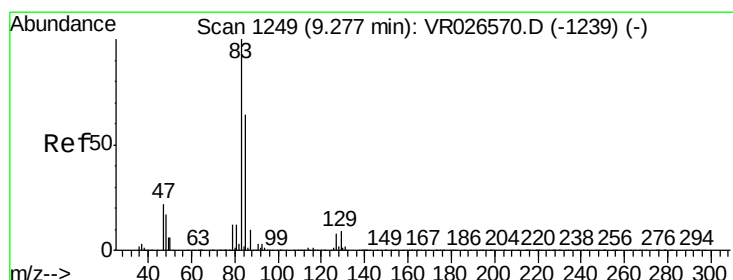
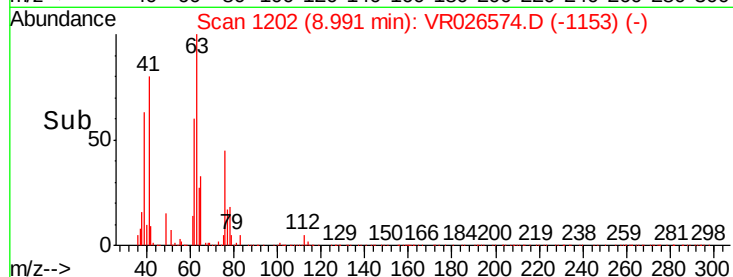
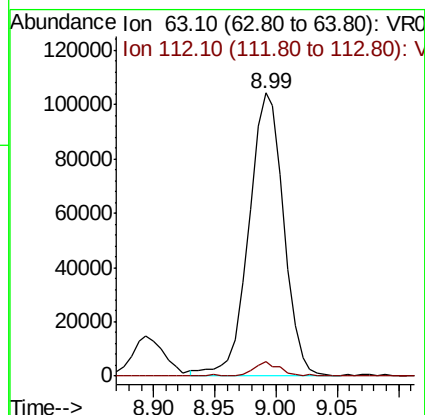
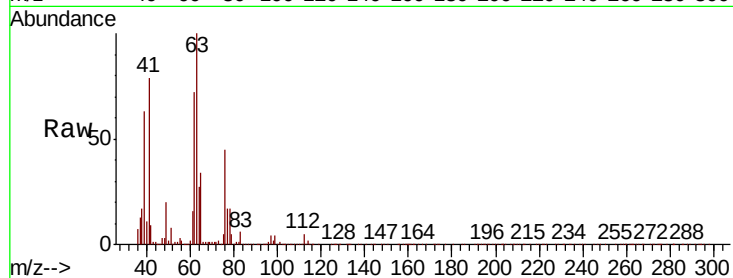




#37
 1,2-Dichloropropane
 Concen: 4.804 ug/L
 RT: 8.99 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

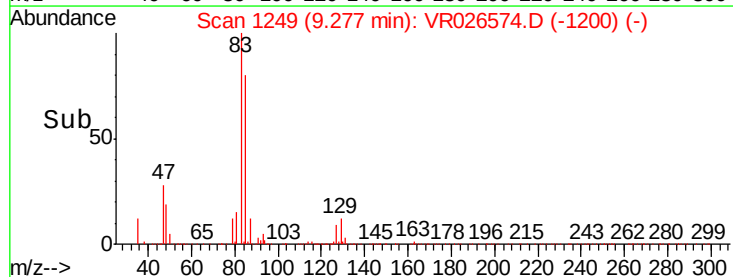
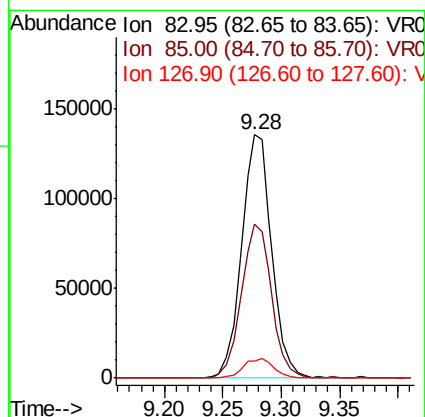
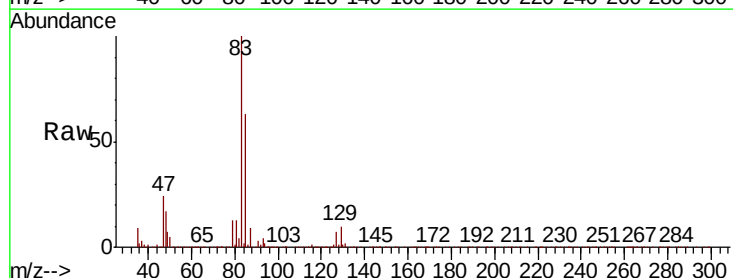
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

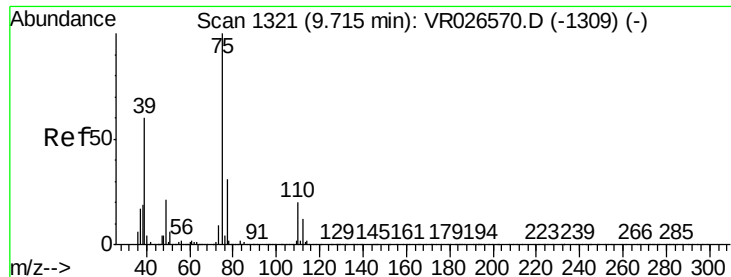
Tot Ion: 63 Resp: 205035
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.916 ug/L
 RT: 9.28 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Tgt Ion: 83 Resp: 242374
 Ion Ratio Lower Upper
 83 100
 85 63.2 44.7 83.1
 127 7.2 6.3 9.5

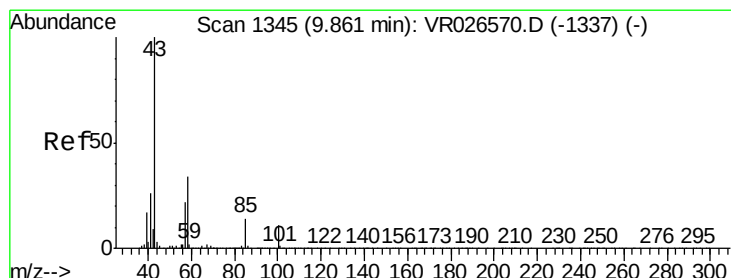
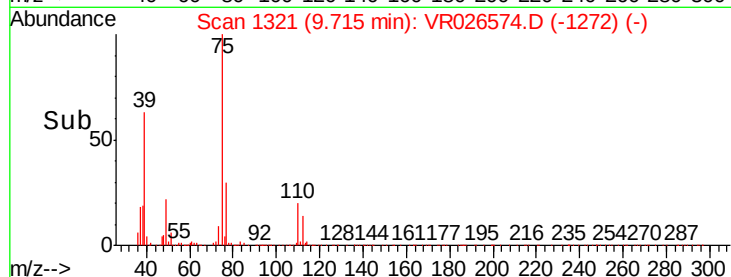
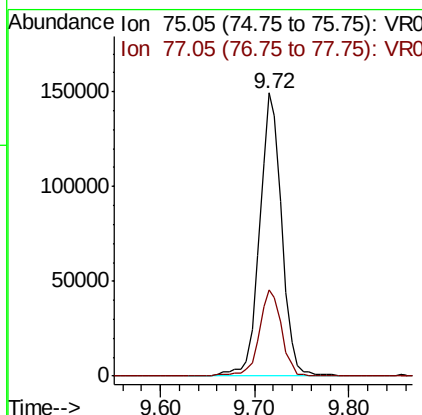
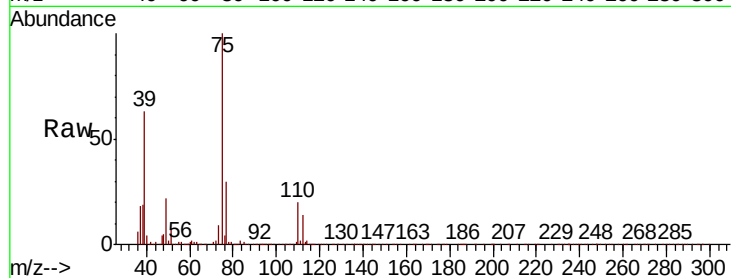




#39
 cis-1,3-Dichloropropene
 Concen: 5.318 ug/L
 RT: 9.72 min Scan# 1321
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

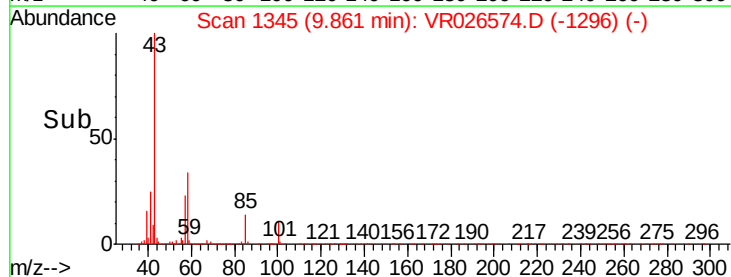
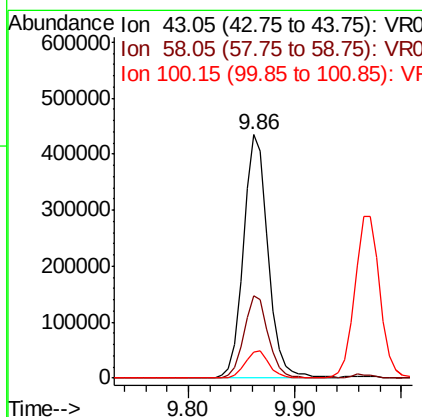
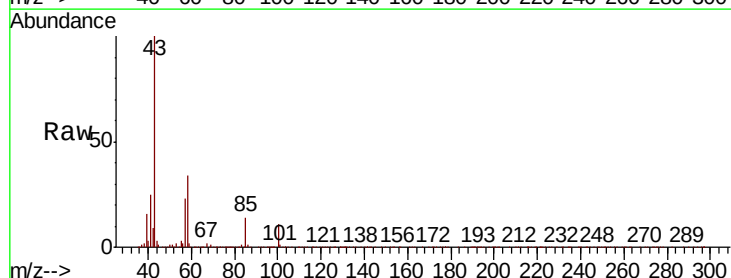
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

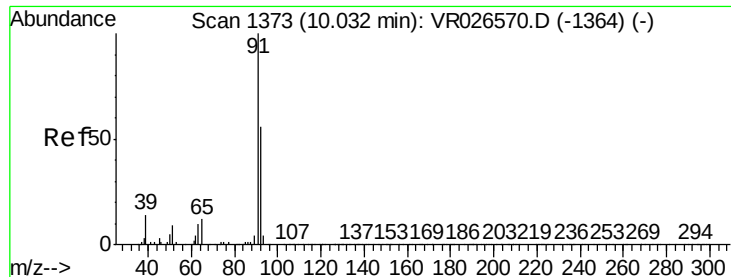
Tot Ion: 75 Resp: 247000
 Ion Ratio Lower Upper
 75 100
 77 30.3 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 55.613 ug/L
 RT: 9.86 min Scan# 1345
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Tgt Ion: 43 Resp: 703218
 Ion Ratio Lower Upper
 43 100
 58 33.5 27.0 40.4
 100 11.2 9.0 13.6





#42

Toluene

Concen: 5.140 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

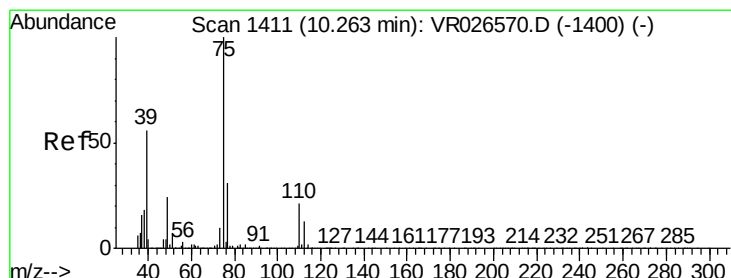
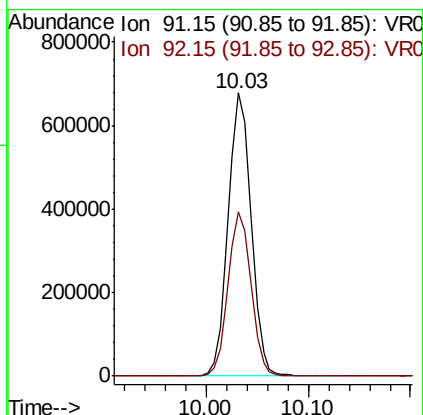
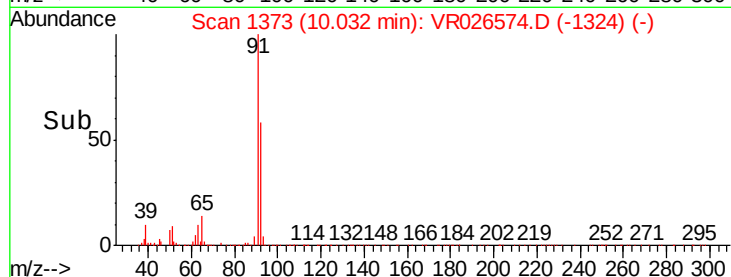
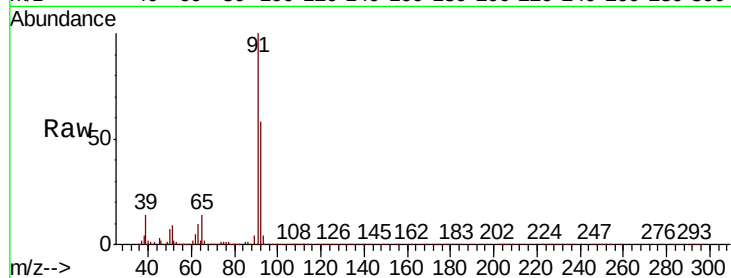
VSTD00570

Tot Ion: 91 Resp: 1054943

Ion Ratio Lower Upper

91 100

92 57.9 39.2 72.8



#44

trans-1,3-Dichloropropene

Concen: 5.151 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR026574.D

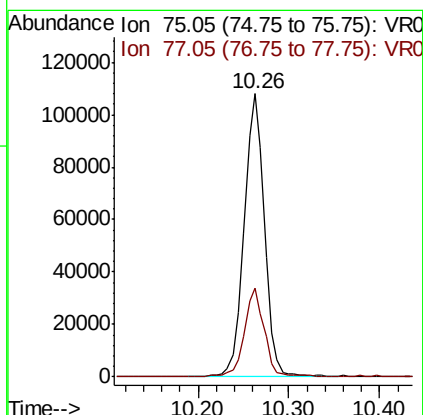
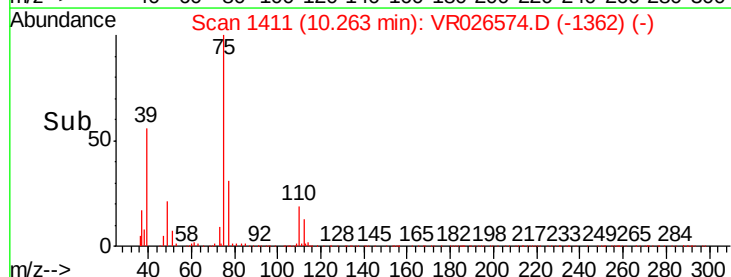
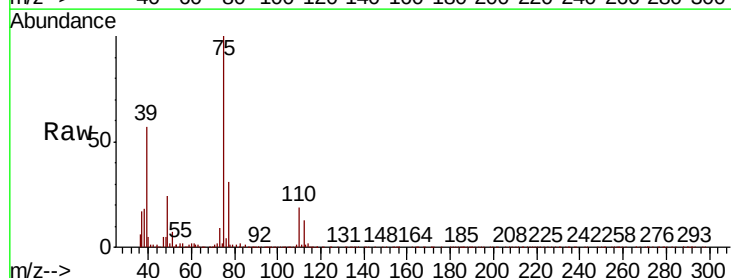
Acq: 11 Apr 2019 18:04

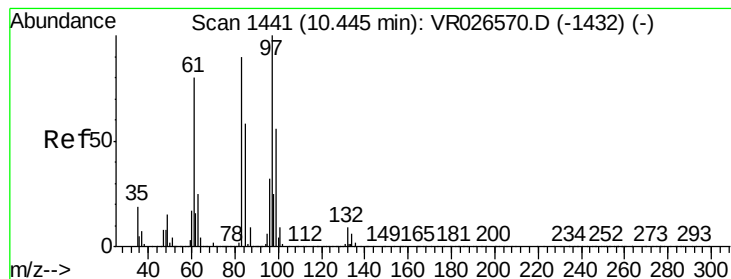
Tgt Ion: 75 Resp: 166552

Ion Ratio Lower Upper

75 100

77 31.2 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 4.553 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

VSTD00570

Tot Ion: 97 Resp: 85826

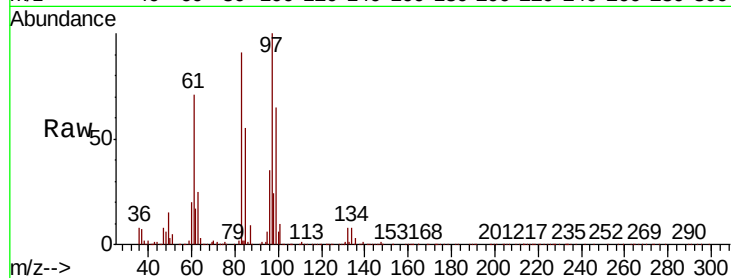
Ion Ratio Lower Upper

97 100

99 64.6 39.3 72.9

83 91.4 63.0 117.0

85 54.9 40.3 74.9



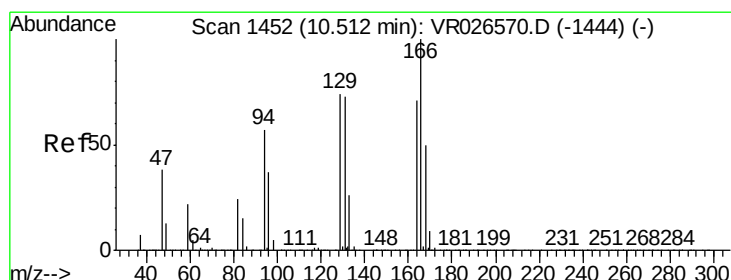
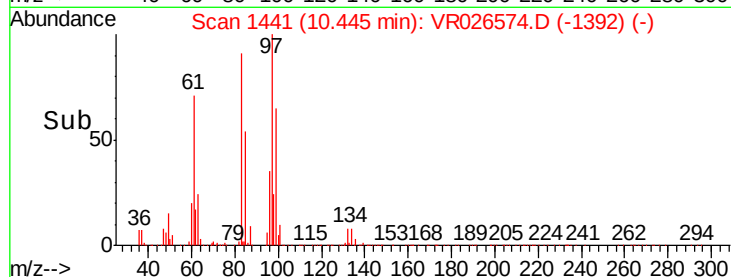
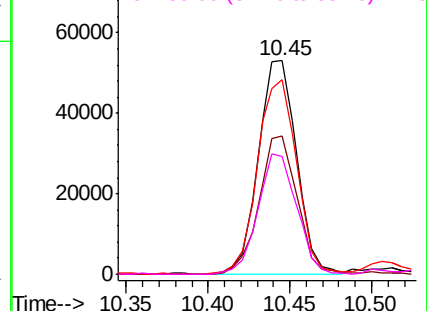
Abundance

Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 4.819 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Tgt Ion: 164 Resp: 186294

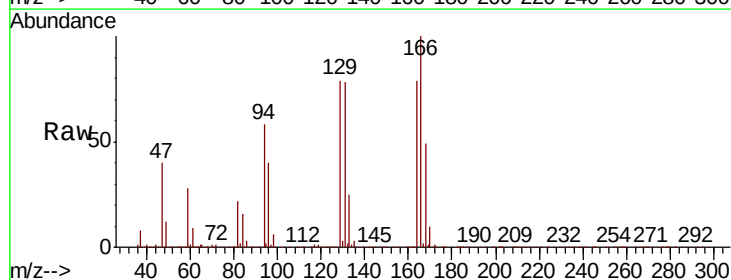
Ion Ratio Lower Upper

164 100

129 100.3 72.7 134.9

131 98.6 72.0 133.6

166 126.3 98.0 182.0



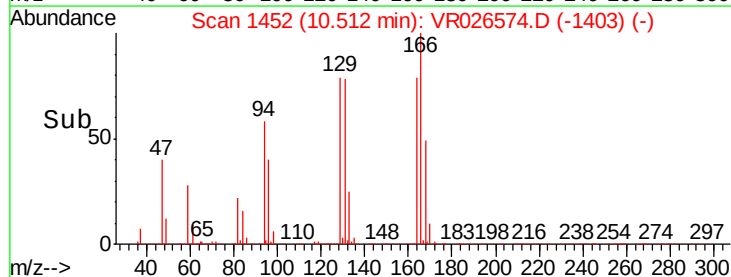
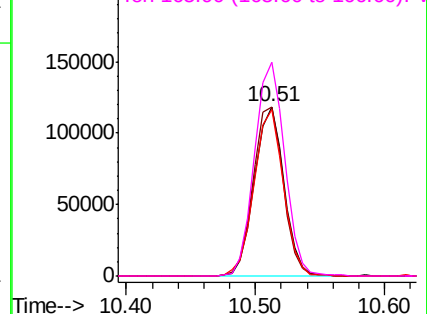
Abundance

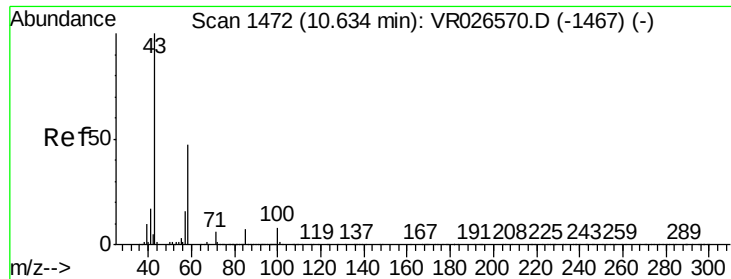
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

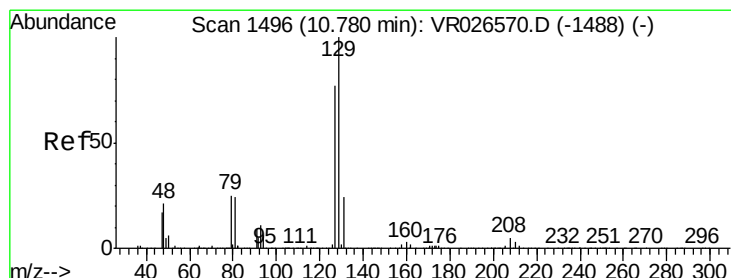
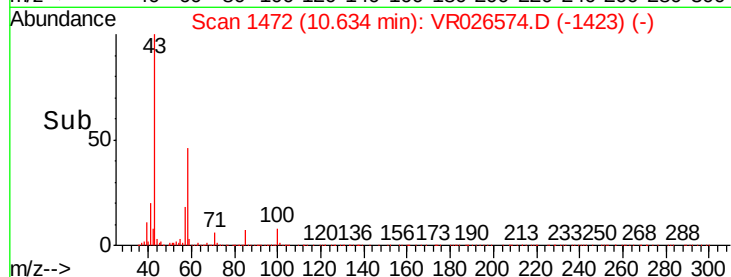
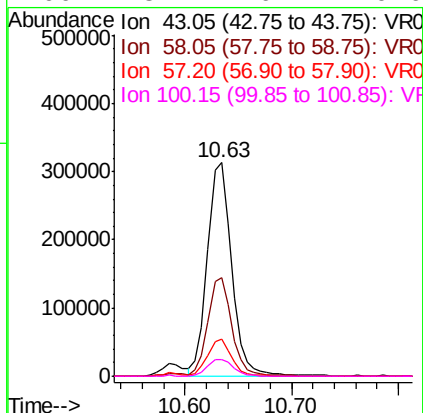
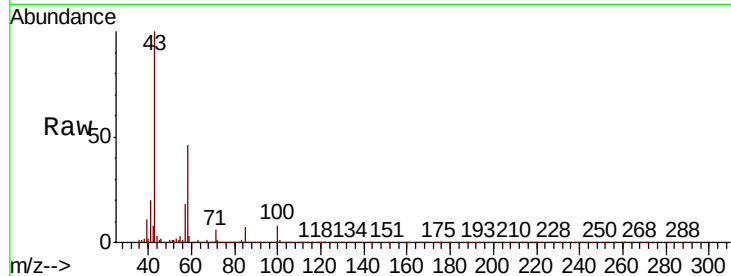




#48
2-Hexanone
Concen: 54.371 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

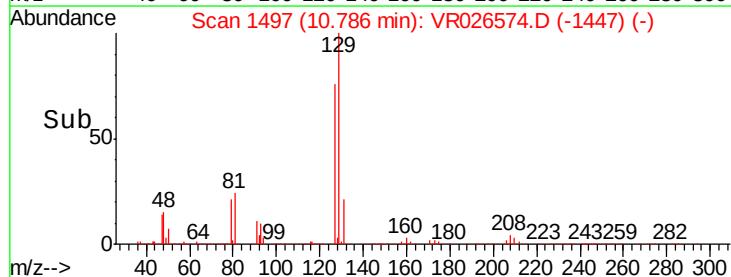
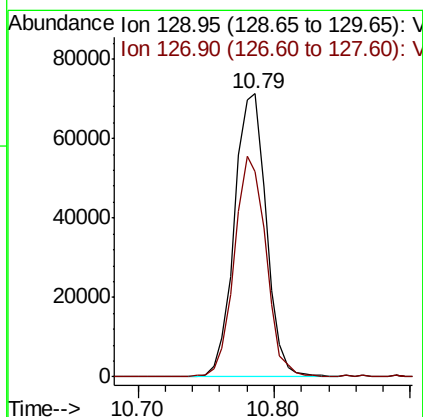
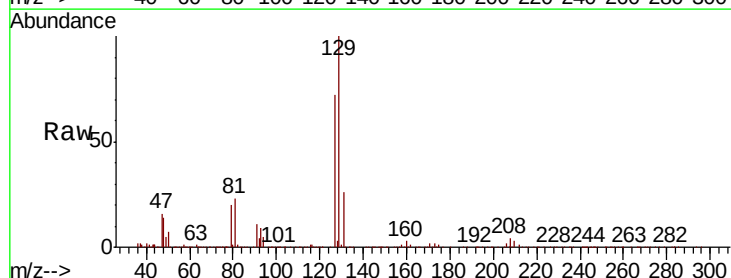
Instrument :
MSVOA_R
ClientSampleId :
VSTD00570

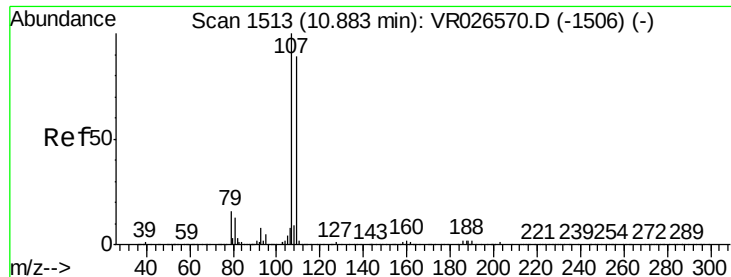
Tot Ion: 43 Resp: 488160
Ion Ratio Lower Upper
43 100
58 45.3 37.2 55.8
57 17.1 13.4 20.0
100 8.4 6.4 9.6



#49
Dibromochloromethane
Concen: 5.071 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. 0.01 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Tgt Ion: 129 Resp: 116237
Ion Ratio Lower Upper
129 100
127 72.4 53.9 100.1

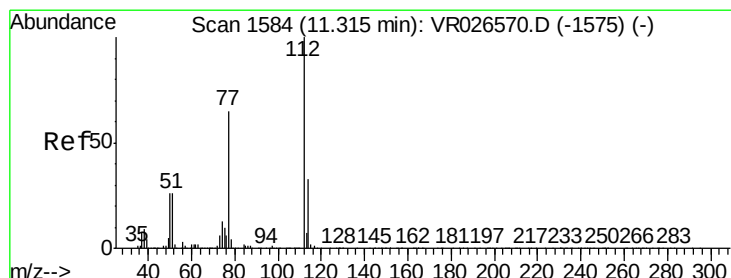
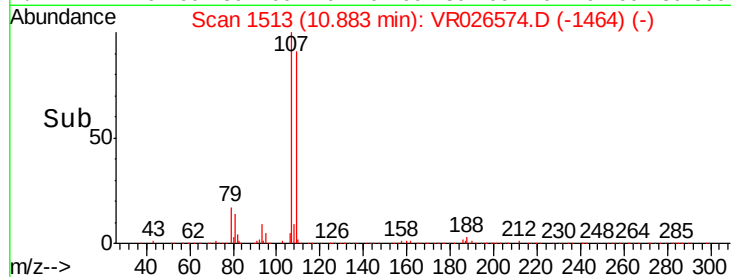
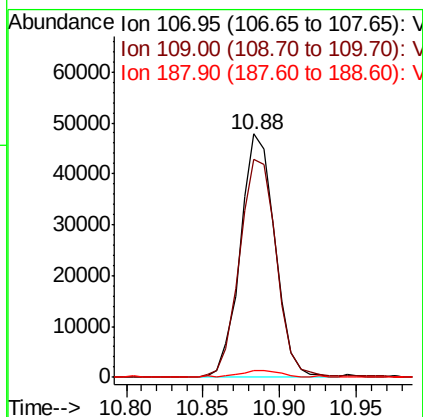
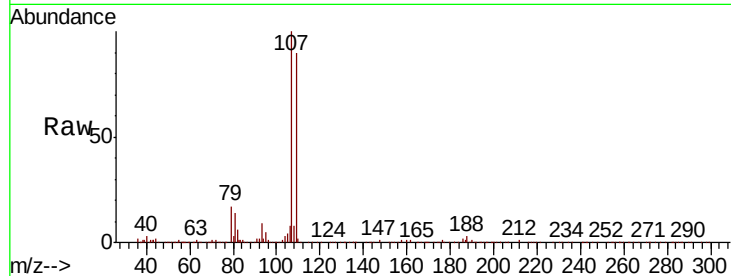




#50
1,2-Dibromoethane
Concen: 4.701 ug/L
RT: 10.88 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

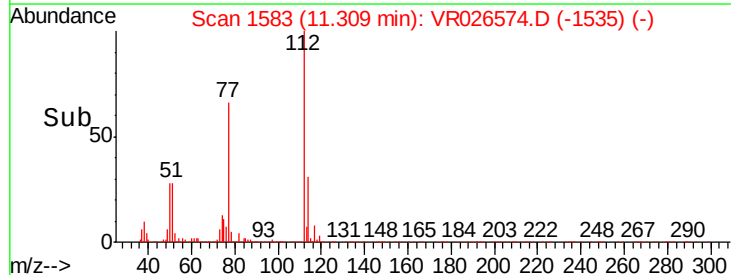
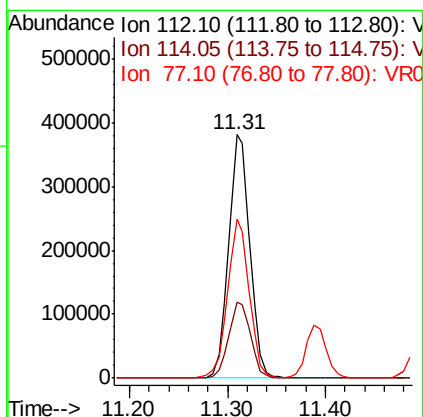
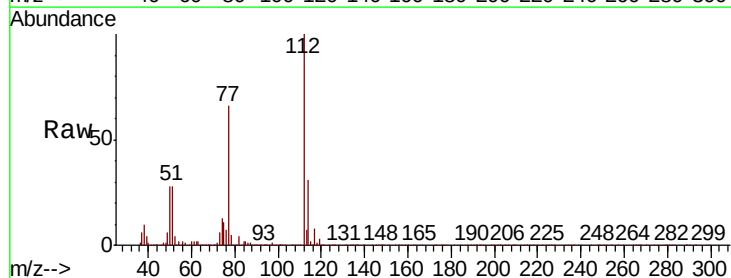
Instrument :
MSVOA_R
ClientSampleId :
VSTD00570

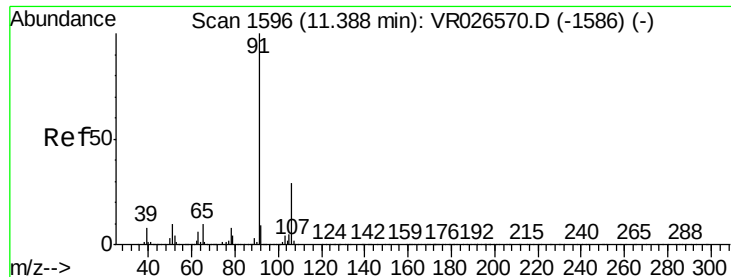
Tot Ion:107 Resp: 75097
Ion Ratio Lower Upper
107 100
109 89.7 62.6 116.3
188 2.9 3.4 5.0#



#51
Chlorobenzene
Concen: 4.816 ug/L
RT: 11.31 min Scan# 1583
Delta R.T. -0.01 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Tgt Ion:112 Resp: 569881
Ion Ratio Lower Upper
112 100
114 31.2 22.8 42.4
77 65.6 51.8 77.8





#52

Ethylbenzene

Concen: 5.265 ug/L

RT: 11.39 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

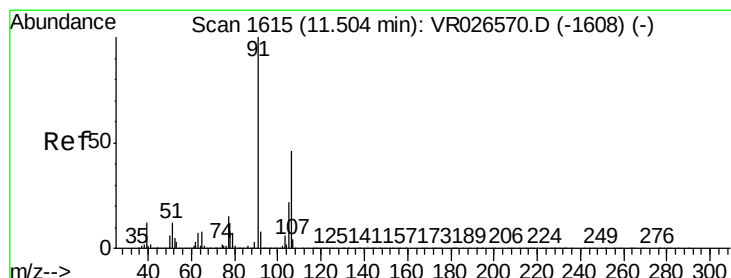
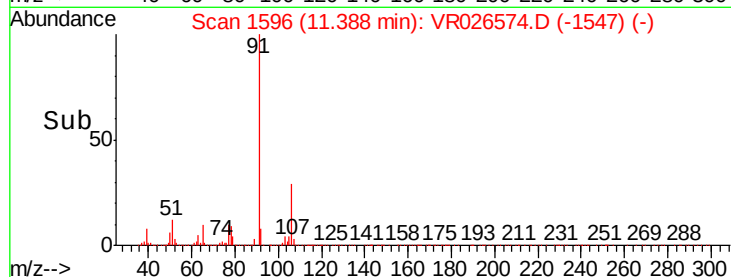
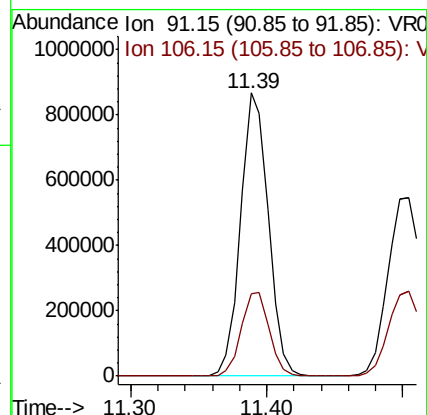
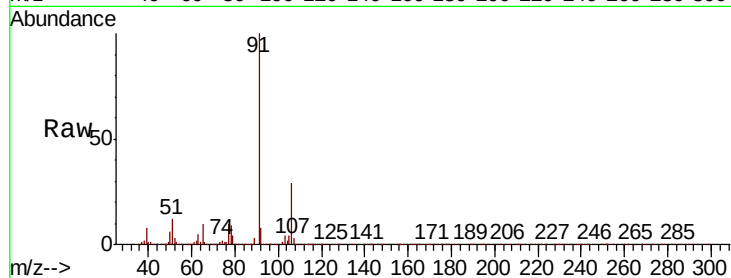
VSTD00570

Tot Ion: 91 Resp: 1232792

Ion Ratio Lower Upper

91 100

106 29.1 20.4 38.0



#53

m,p-Xylene

Concen: 5.269 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VR026574.D

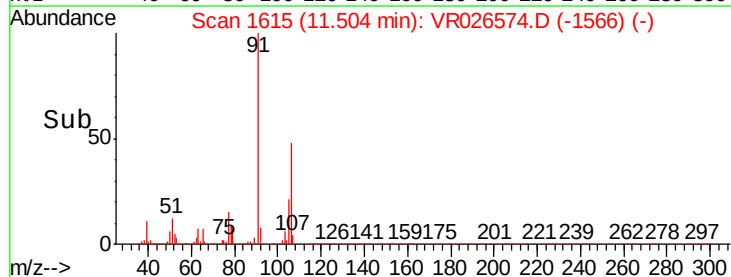
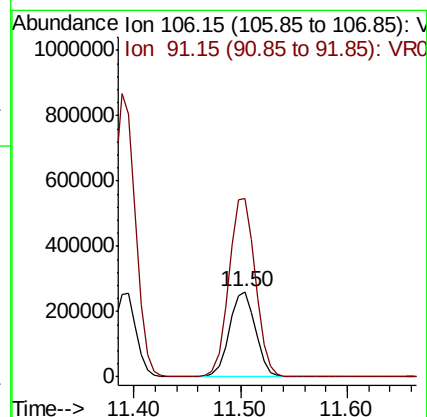
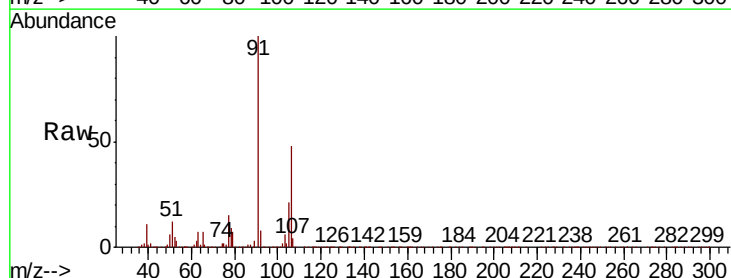
Acq: 11 Apr 2019 18:04

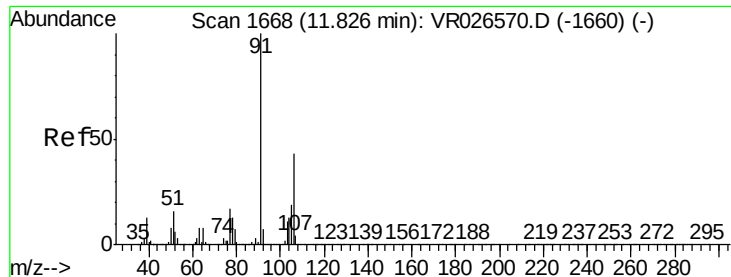
Tgt Ion: 106 Resp: 442904

Ion Ratio Lower Upper

106 100

91 209.8 151.8 282.0

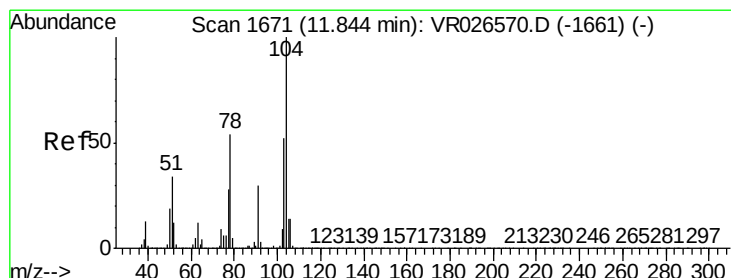
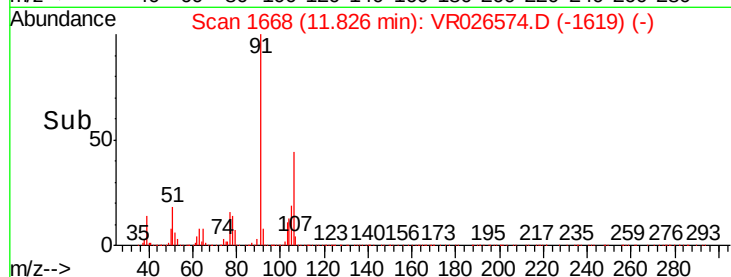
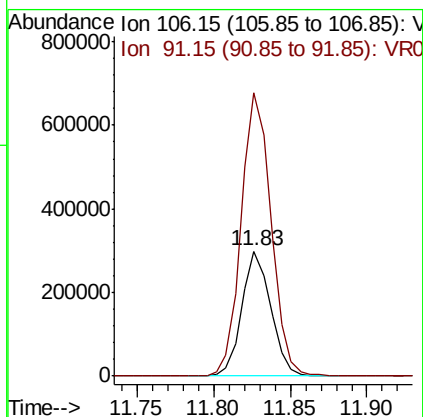
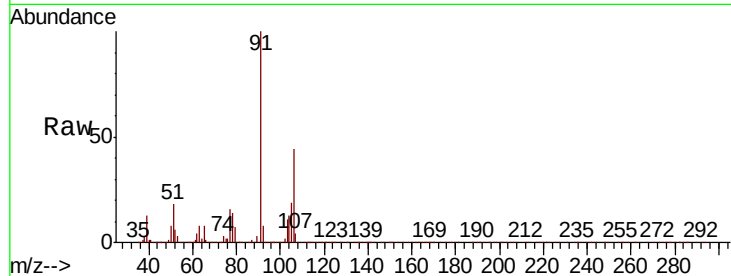




#54
o-Xylene
Concen: 5.231 ug/L
RT: 11.83 min Scan# 1668
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

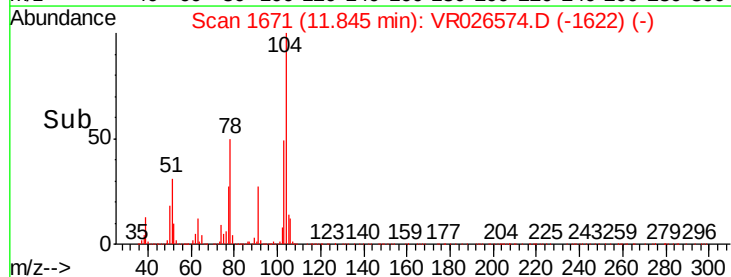
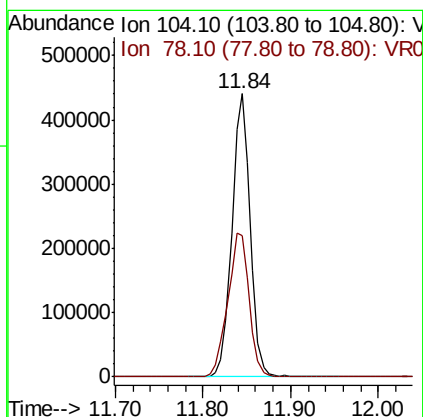
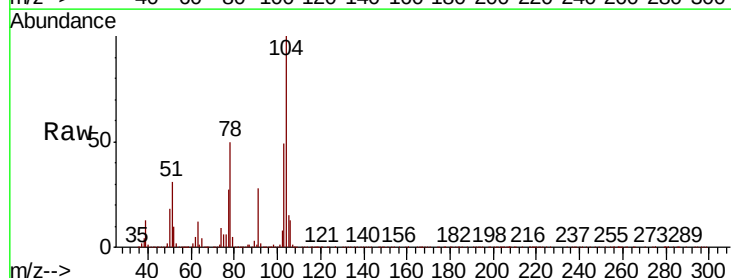
Instrument :
MSVOA_R
ClientSampleId :
VSTD00570

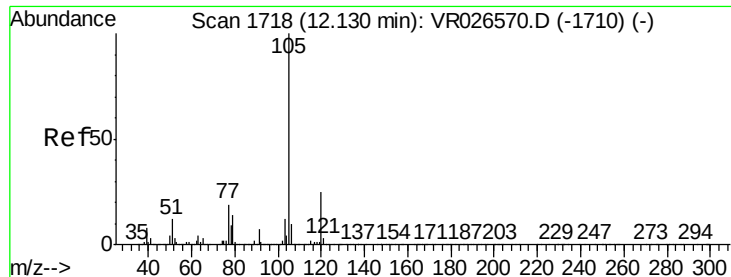
Tot Ion:106 Resp: 393043
Ion Ratio Lower Upper
106 100
91 226.2 161.0 299.0



#55
Styrene
Concen: 5.327 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR026574.D
Acq: 11 Apr 2019 18:04

Tgt Ion:104 Resp: 640828
Ion Ratio Lower Upper
104 100
78 49.8 37.5 69.7





#56

Isopropylbenzene

Concen: 5.545 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampled :

VSTD00570

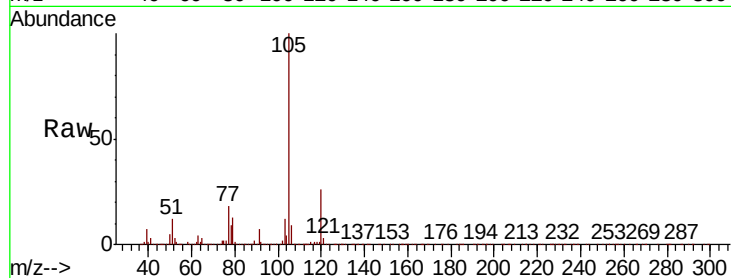
Tot Ion:105 Resp: 1153130

Ion Ratio Lower Upper

105 100

120 25.9 20.6 31.0

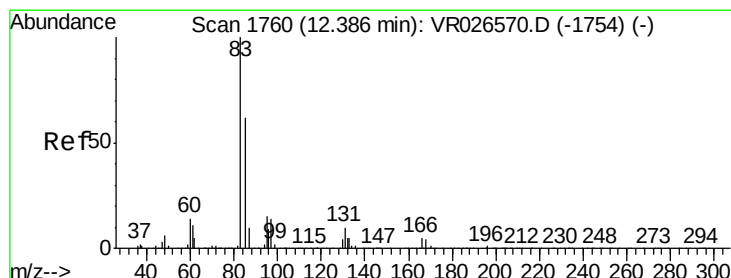
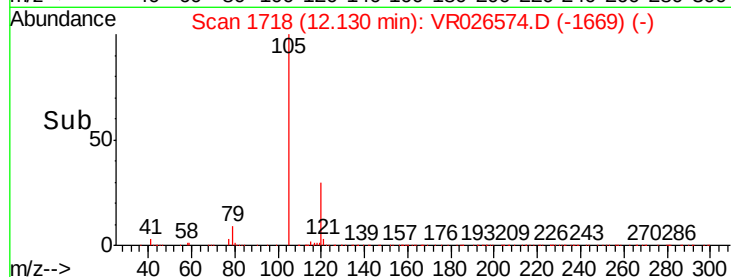
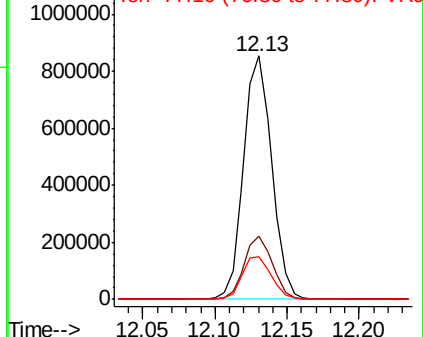
77 18.3 14.3 21.5



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: 4.692 ug/L

RT: 12.38 min Scan# 1759

Delta R.T. -0.01 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

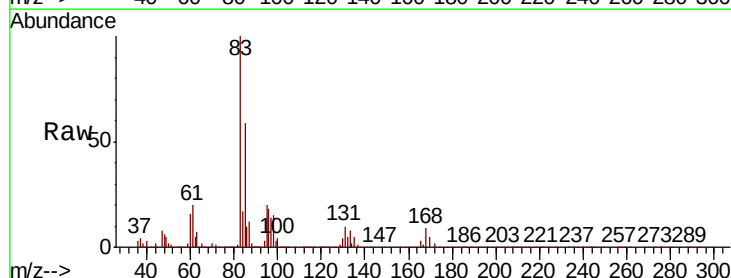
Tgt Ion: 83 Resp: 84409

Ion Ratio Lower Upper

83 100

85 59.2 44.3 82.3

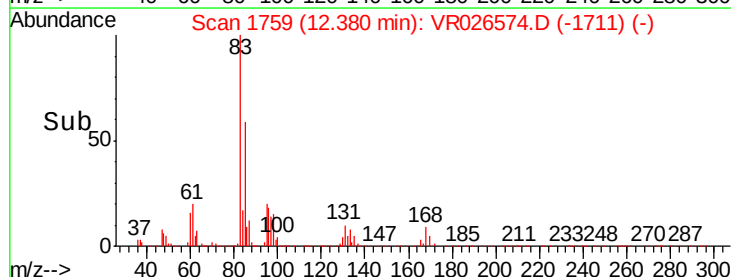
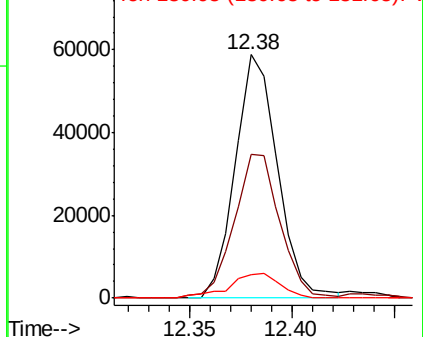
131 9.8 8.9 13.3

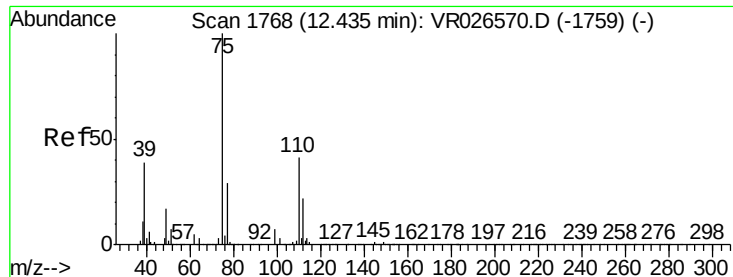


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V

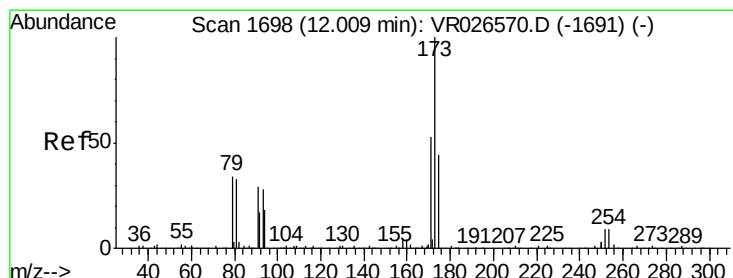
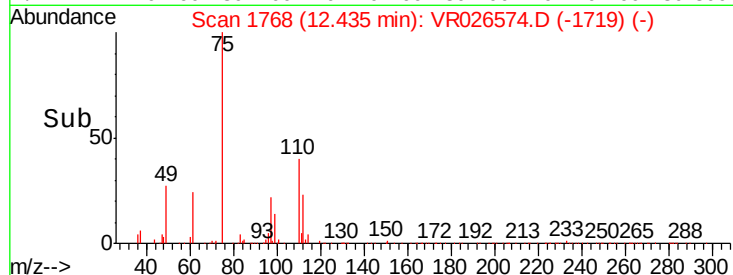
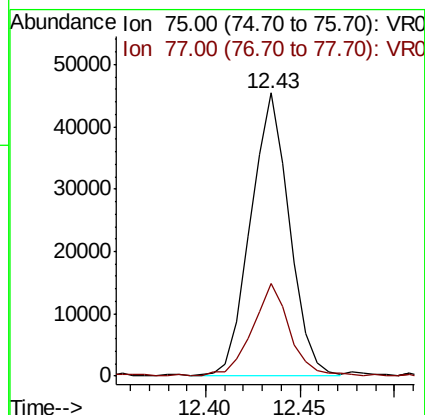
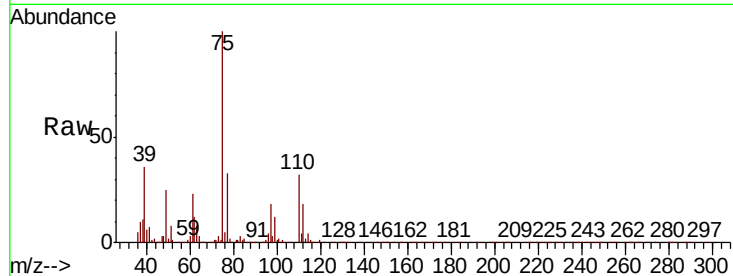




#59
 1,2,3-Trichloropropane
 Concen: 4.811 ug/L
 RT: 12.43 min Scan# 1768
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

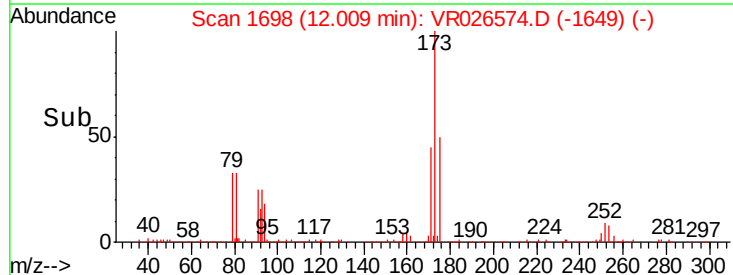
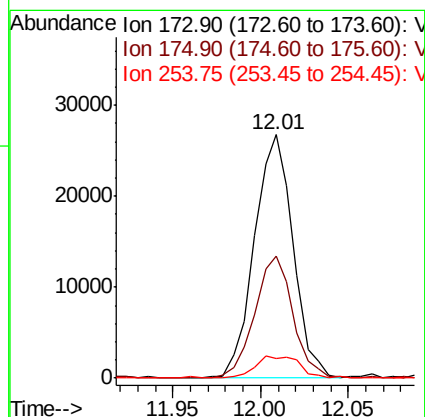
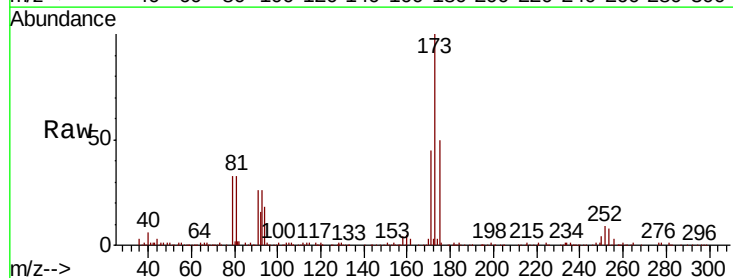
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

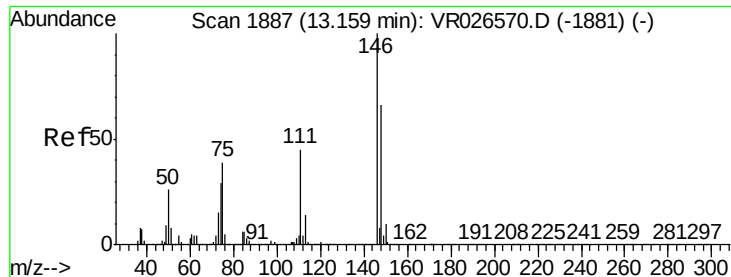
Tot Ion: 75 Resp: 64582
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.2 37.8



#61
 Bromoform
 Concen: 4.542 ug/L
 RT: 12.01 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Tgt Ion: 173 Resp: 41271
 Ion Ratio Lower Upper
 173 100
 175 49.8 39.1 58.7
 254 10.4 8.3 12.5





#62

1,3-Dichlorobenzene

Concen: 4.994 ug/L

RT: 13.16 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

VSTD00570

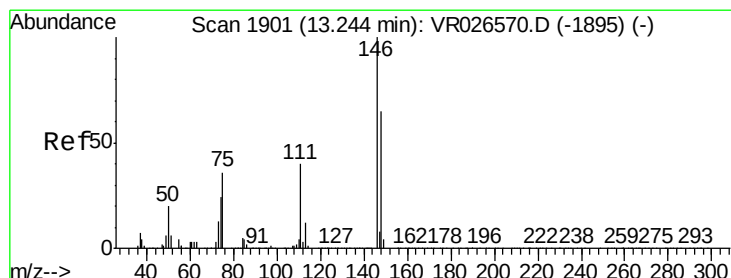
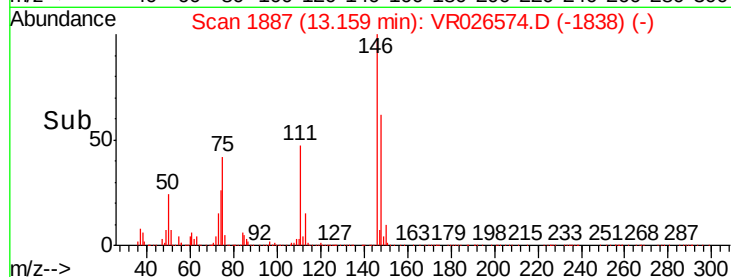
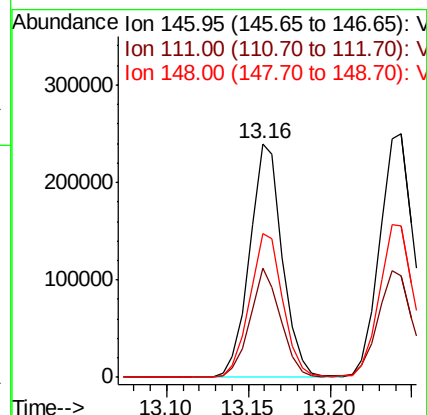
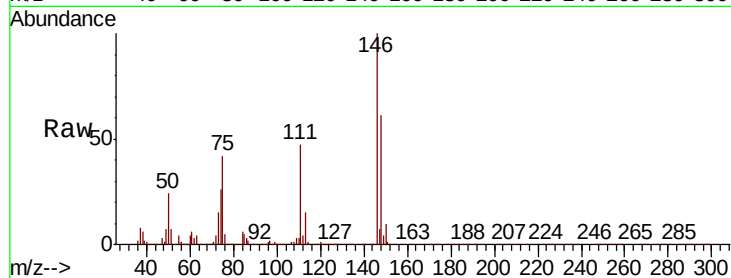
Tot Ion:146 Resp: 334846

Ion Ratio Lower Upper

146 100

111 46.6 31.4 58.2

148 61.5 46.5 86.5



#63

1,4-Dichlorobenzene

Concen: 4.545 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

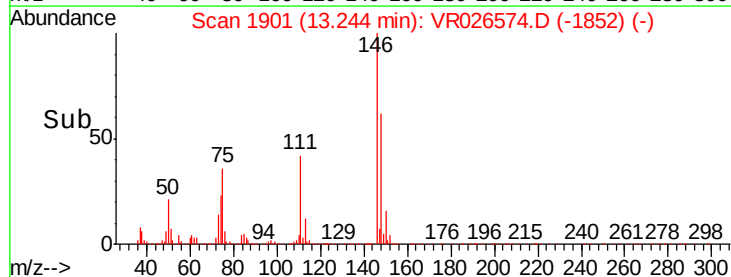
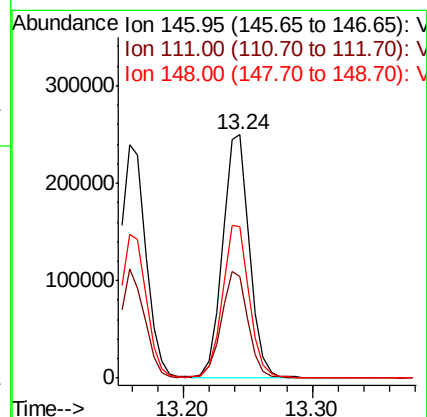
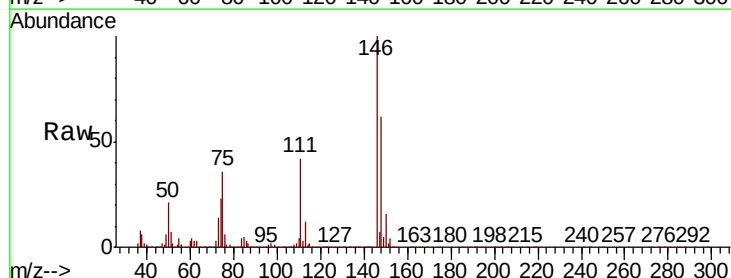
Tgt Ion:146 Resp: 365349

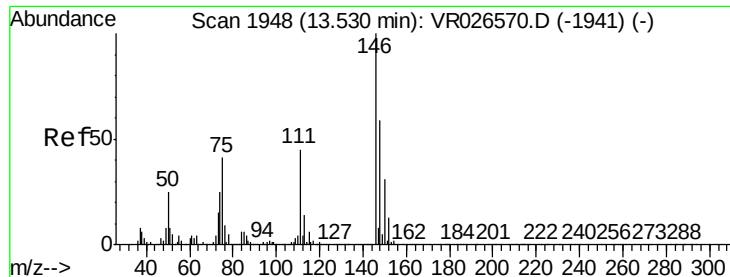
Ion Ratio Lower Upper

146 100

111 41.9 28.4 52.8

148 62.3 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 4.832 ug/L

RT: 13.53 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampled :

VSTD00570

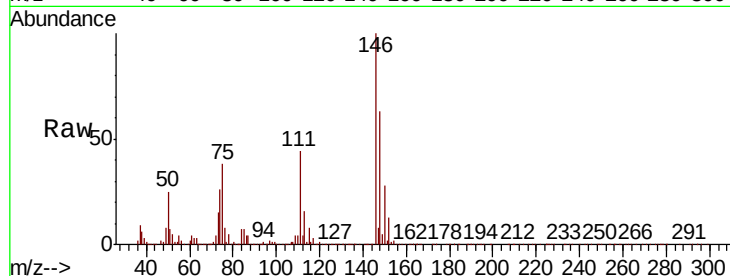
Tot Ion:146 Resp: 280571

Ion Ratio Lower Upper

146 100

111 44.4 35.8 53.8

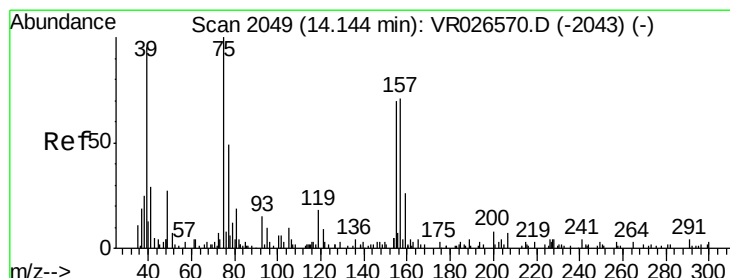
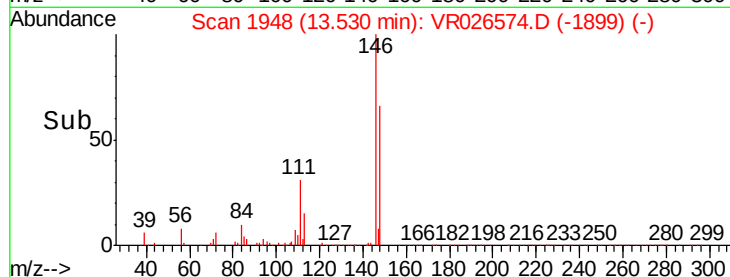
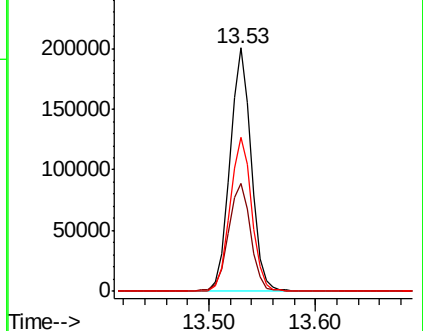
148 63.3 47.4 71.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.225 ug/L

RT: 14.15 min Scan# 2050

Delta R.T. 0.01 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

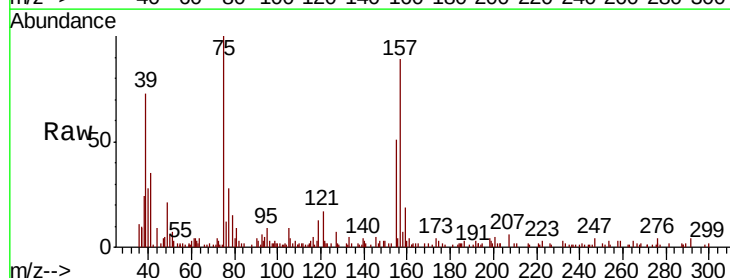
Tgt Ion: 75 Resp: 9374

Ion Ratio Lower Upper

75 100

155 51.0 57.2 85.8#

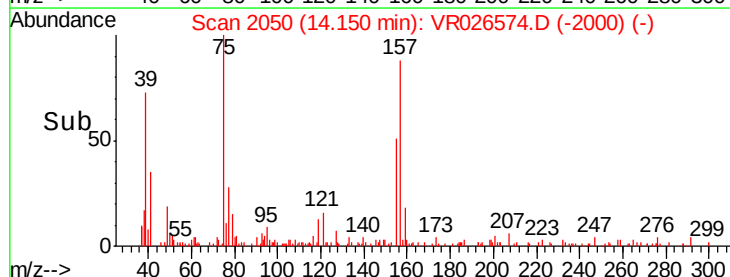
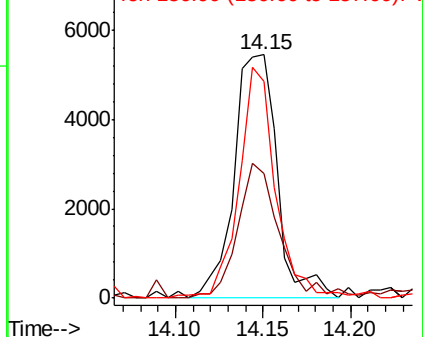
157 89.2 56.7 85.1#

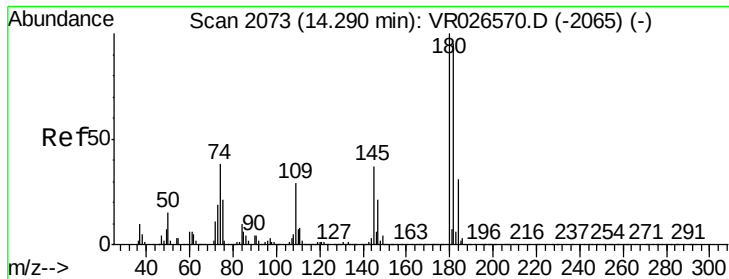


Abundance Ion 75.05 (74.75 to 75.75): VR0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

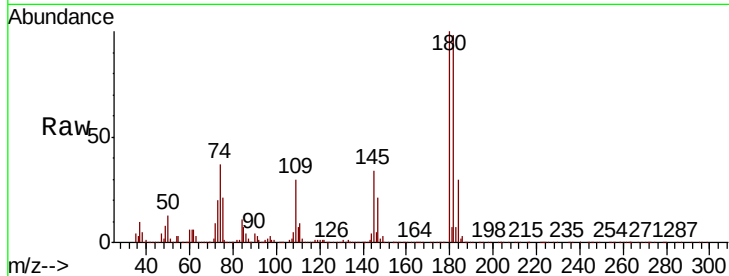




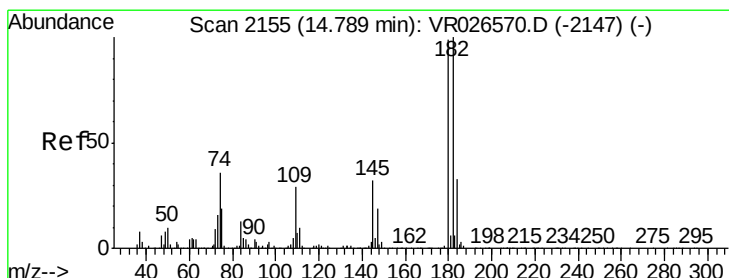
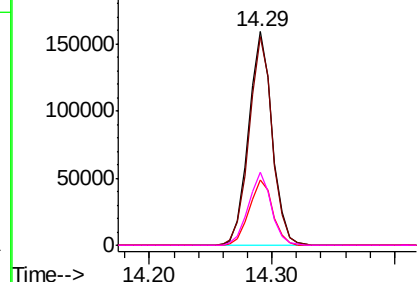
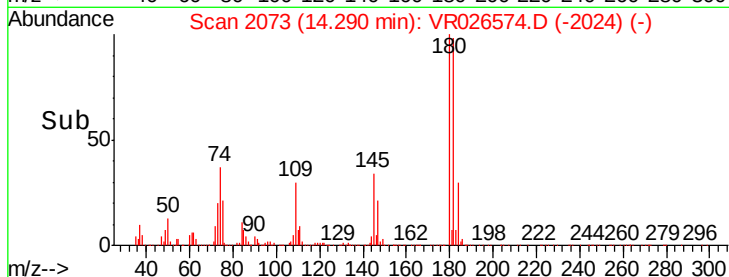
#67
 1,3,5-Trichlorobenzene
 Concen: 4.796 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00570

Tot Ion:	180	Resp:	211233
Ion	Ratio	Lower	Upper
180	100		
182	96.7	74.4	111.6
184	30.7	24.6	37.0
145	33.4	26.2	39.4

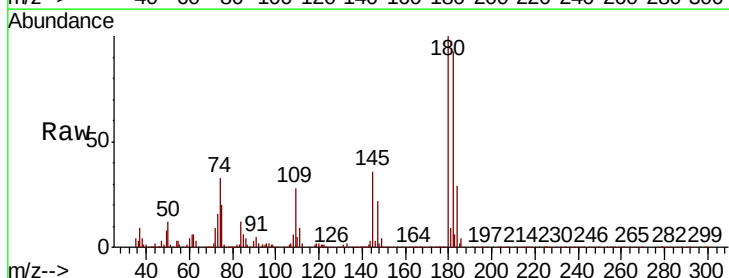


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

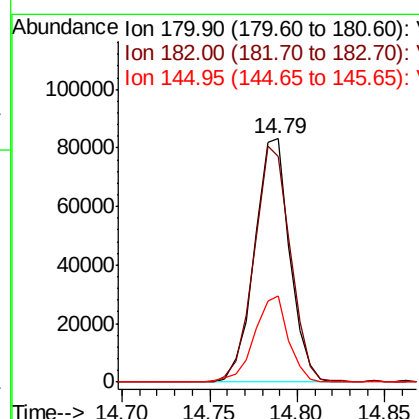
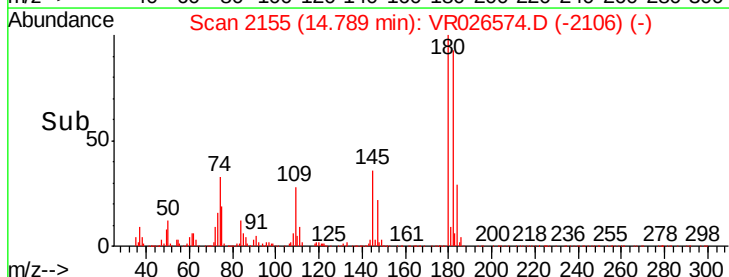


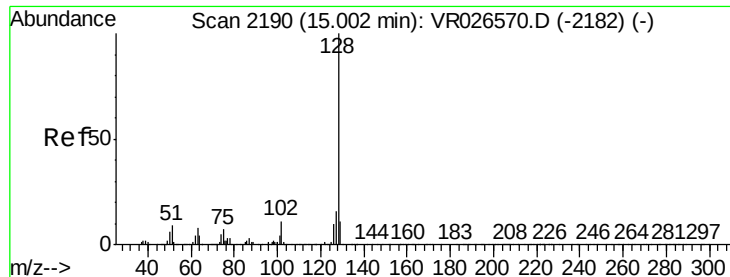
#68
 1,2,4-trichlorobenzene
 Concen: 4.743 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VR026574.D
 Acq: 11 Apr 2019 18:04

Tgt Ion:	180	Resp:	116275
Ion	Ratio	Lower	Upper
180	100		
182	99.6	76.0	114.0
145	34.2	26.1	39.1



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: 4.768 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_R

ClientSampleId :

VSTD00570

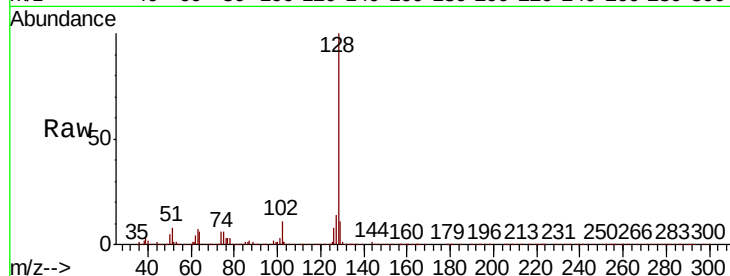
Tot Ion:128 Resp: 107359

Ion Ratio Lower Upper

128 100

127 13.1 11.8 17.6

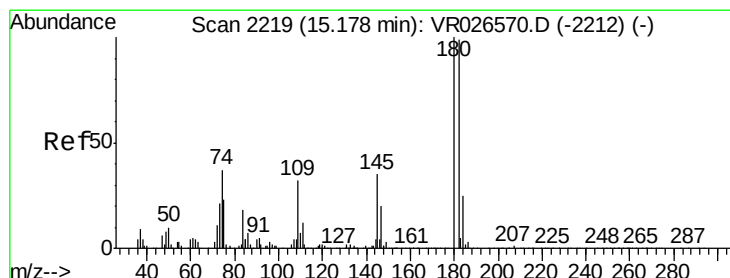
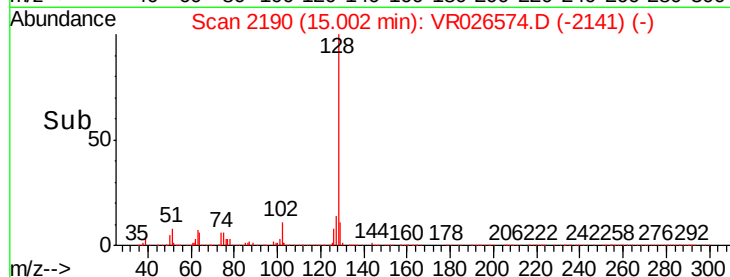
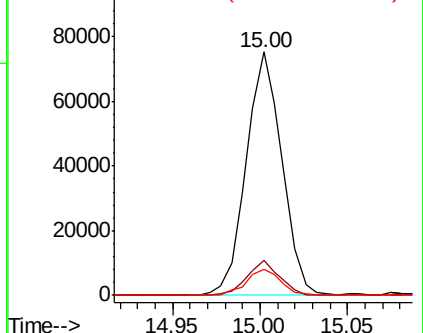
129 10.4 9.3 13.9



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: 5.493 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VR026574.D

Acq: 11 Apr 2019 18:04

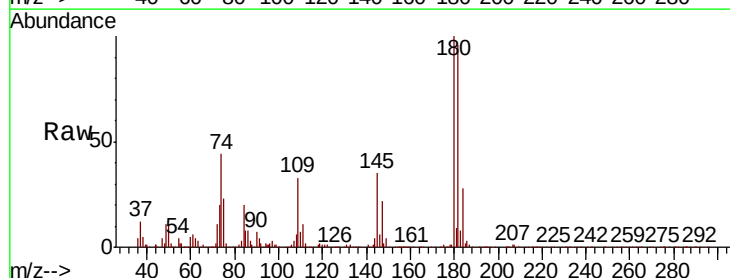
Tgt Ion:180 Resp: 95462

Ion Ratio Lower Upper

180 100

182 92.0 74.8 112.2

145 34.4 27.6 41.4



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

