

Data File : VV008709.D
Acq On : 26 Nov 2018 12:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0 mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Quant Time: Nov 27 03:08:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM112018WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Nov 21 01:28:05 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	308654	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	279137	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	134992	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	86497	39.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.44%
7) Chloroethane-d5	1.57	69	58933	49.54	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.08%
11) 1,1-Dichloroethene-d2	2.13	63	157781	43.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.80%
21) 2-Butanone-d5	3.93	46	141751	79.87	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.87%
24) Chloroform-d	4.40	84	194327	44.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.12%
26) 1,2-Dichloroethane-d4	5.08	65	122037	43.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.52%
32) Benzene-d6	5.10	84	393753	45.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.70%
36) 1,2-Dichloropropane-d6	6.12	67	120714	44.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.94%
41) Toluene-d8	7.36	98	358116	45.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.90%
43) trans-1,3-Dichloropropene-	7.66	79	58438	48.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.28%
47) 2-Hexanone-d5	8.13	63	104568	85.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.20%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	160187	43.27	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.54%
64) 1,2-Dichlorobenzene-d4	11.68	152	136372	46.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.56%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	110620	44.254	ug/L	98
3) Chloromethane	1.25	50	97287	40.182	ug/L	100
5) Vinyl chloride	1.33	62	101208	43.055	ug/L	97
6) Bromomethane	1.52	94	36423	45.927	ug/L	95
8) Chloroethane	1.59	64	54388	46.192	ug/L	93
9) Trichlorofluoromethane	1.76	101	143437	47.423	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	83974	48.097	ug/L	98
12) 1,1-Dichloroethene	2.14	96	74276	47.397	ug/L	88
13) Acetone	2.19	43	153074	87.167	ug/L	100
14) Carbon disulfide	2.32	76	265828	43.561	ug/L	99
15) Methyl Acetate	2.46	43	109786	39.648	ug/L	100
16) Methylene chloride	2.54	84	107415	44.254	ug/L	94
17) trans-1,2-Dichloroethene	2.79	96	99371	45.718	ug/L	94
18) Methyl tert-butyl Ether	2.81	73	319103	44.205	ug/L	99
19) 1,1-Dichloroethane	3.23	63	184847	44.330	ug/L	97
20) cis-1,2-Dichloroethene	3.96	96	112110	45.109	ug/L	91
22) 2-Butanone	4.02	43	181921	81.811	ug/L	96

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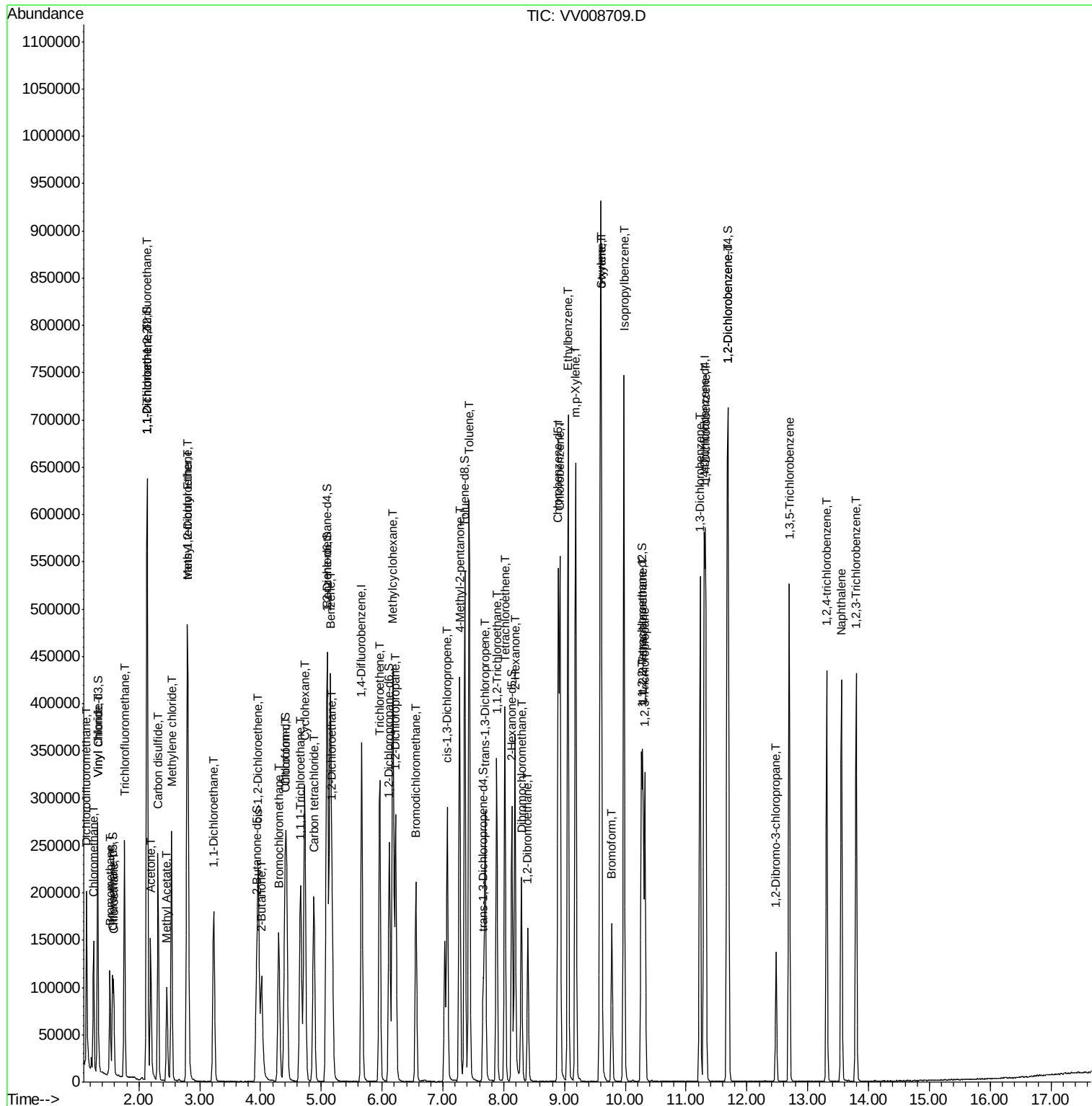
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	54332	45.395	ug/L	87
25) Chloroform	4.43	83	191781	44.188	ug/L	95
27) 1,2-Dichloroethane	5.18	62	148044	44.032	ug/L	99
29) Cyclohexane	4.73	56	174063	46.032	ug/L #	100
30) 1,1,1-Trichloroethane	4.66	97	166931	48.396	ug/L	97
31) Carbon tetrachloride	4.88	117	144595	50.408	ug/L	99
33) Benzene	5.15	78	418659	46.652	ug/L	100
34) Trichloroethene	5.96	95	111728	46.979	ug/L	90
35) Methylcyclohexane	6.18	83	188170	47.917	ug/L	98
37) 1,2-Dichloropropane	6.22	63	110708	45.673	ug/L #	94
38) Bromodichloromethane	6.56	83	138758	47.770	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	170621	49.526	ug/L	94
40) 4-Methyl-2-pentanone	7.27	43	282959	83.124	ug/L	93
42) Toluene	7.43	91	445718	47.760	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	155604	49.652	ug/L	93
45) 1,1,2-Trichloroethane	7.88	97	103968	47.001	ug/L	92
46) Tetrachloroethene	8.02	164	86363	50.276	ug/L	97
48) 2-Hexanone	8.19	43	233157	87.369	ug/L	97
49) Dibromochloromethane	8.29	129	110355	50.220	ug/L	94
50) 1,2-Dibromoethane	8.40	107	107785	46.787	ug/L #	97
51) Chlorobenzene	8.93	112	281292	47.375	ug/L	92
52) Ethylbenzene	9.06	91	483696	47.238	ug/L	99
53) m,p-Xylene	9.18	106	182238	48.433	ug/L	91
54) o-xylene	9.59	106	179816	48.060	ug/L	97
55) Styrene	9.60	104	302156	48.424	ug/L	100
56) Isopropylbenzene	9.98	105	474502	48.231	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	159909	42.734	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	130312	42.443	ug/L	100
61) Bromoform	9.78	173	74605	50.329	ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	210492	46.534	ug/L	96
63) 1,4-Dichlorobenzene	11.32	146	214114	46.445	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	220970	47.328	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	33827	44.743	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	156592	49.722	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	123388	51.630	ug/L	97
69) Naphthalene	13.55	128	325860	47.888	ug/L	98
70) 1,2,3-Trichlorobenzene	13.80	180	127346	51.821	ug/L	98

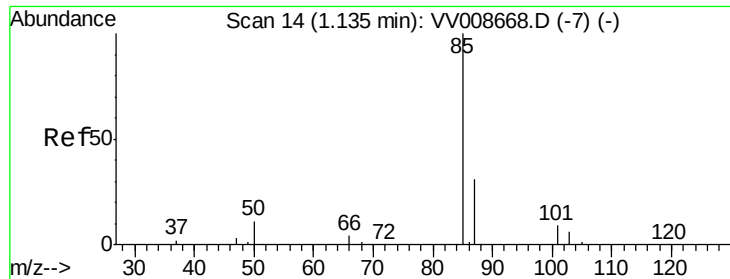
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.254 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

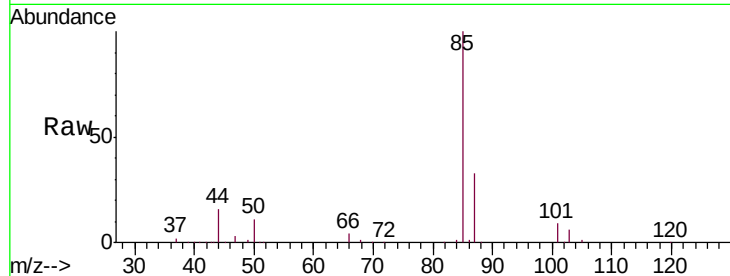
VSTD05078

Tgt Ion: 85 Resp: 110620

Ion Ratio Lower Upper

85 100

87 32.4 24.8 37.2



Abundance Ion 85.00 (84.70 to 85.70): VV008668.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV008668.D (-7) (-)

1.14

100000

80000

60000

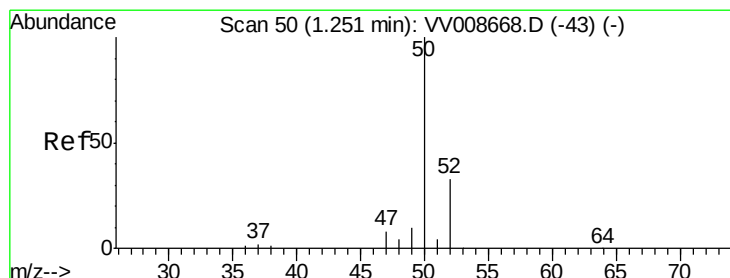
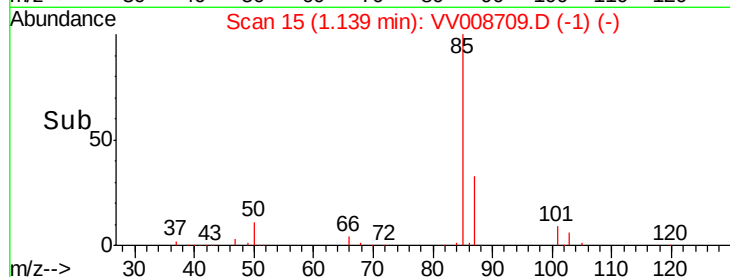
40000

20000

0

1.10 1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 40.182 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV008709.D

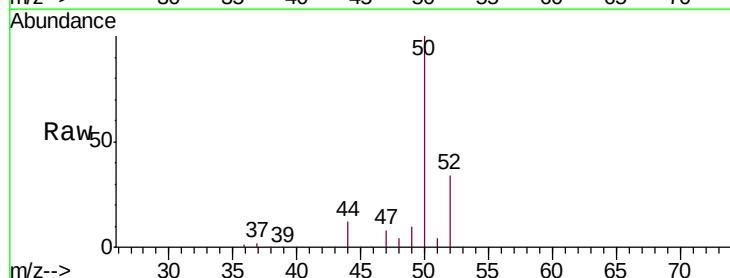
Acq: 26 Nov 2018 12:01

Tgt Ion: 50 Resp: 97287

Ion Ratio Lower Upper

50 100

52 34.1 24.1 44.7



Abundance Ion 50.00 (49.70 to 50.70): VV008668.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV008668.D (-43) (-)

1.25

100000

80000

60000

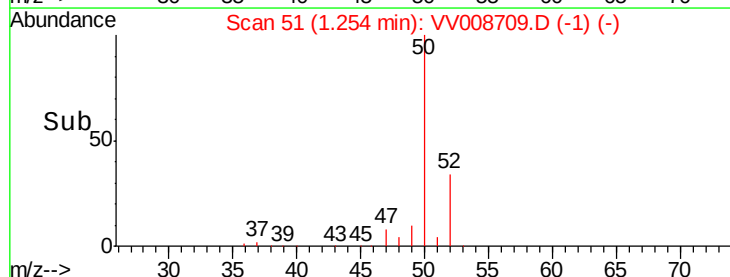
40000

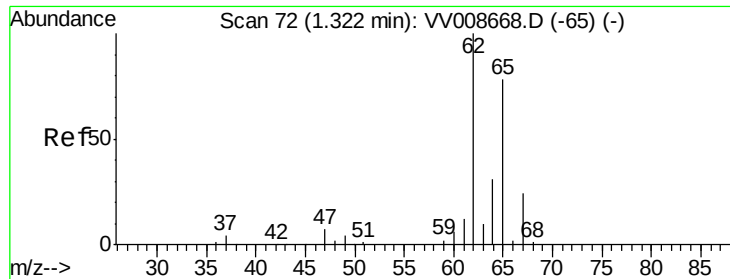
20000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 43.055 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

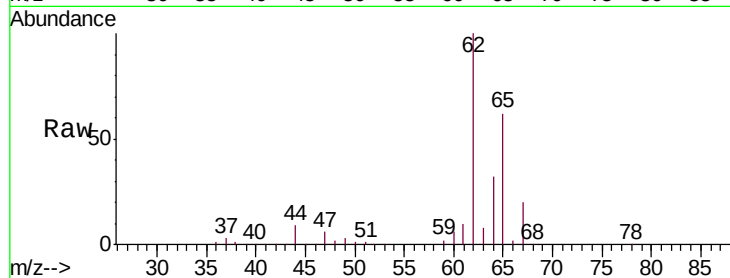
VSTD05078

Tgt Ion: 62 Resp: 101208

Ion Ratio Lower Upper

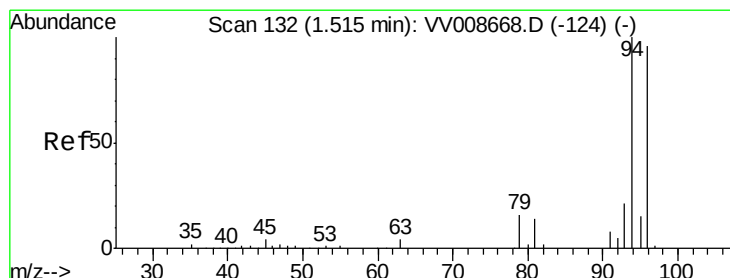
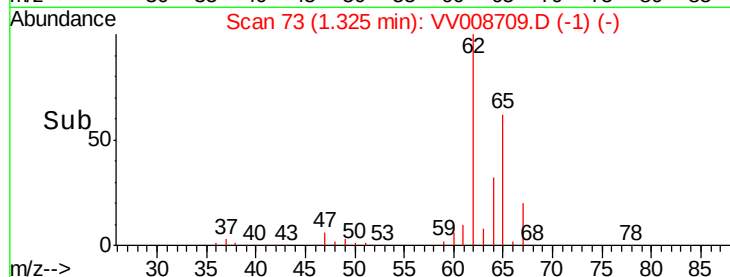
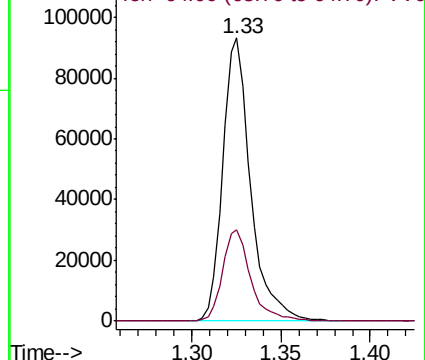
62 100

64 32.4 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 45.927 ug/L

RT: 1.52 min Scan# 135

Delta R.T. -0.01 min

Lab File: VV008709.D

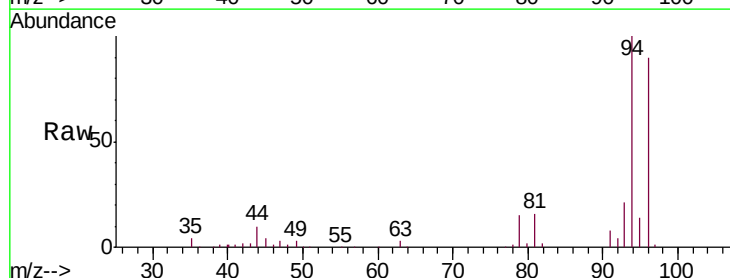
Acq: 26 Nov 2018 12:01

Tgt Ion: 94 Resp: 36423

Ion Ratio Lower Upper

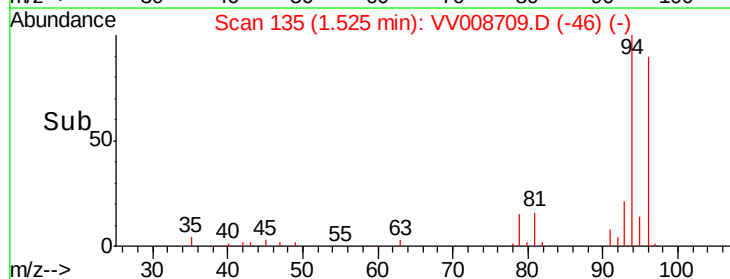
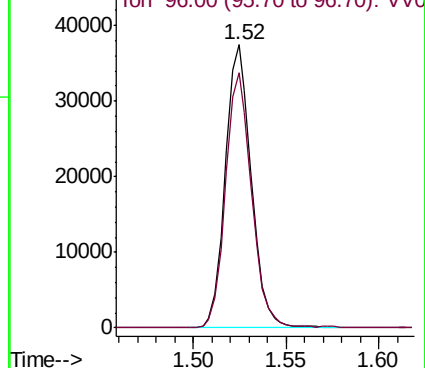
94 100

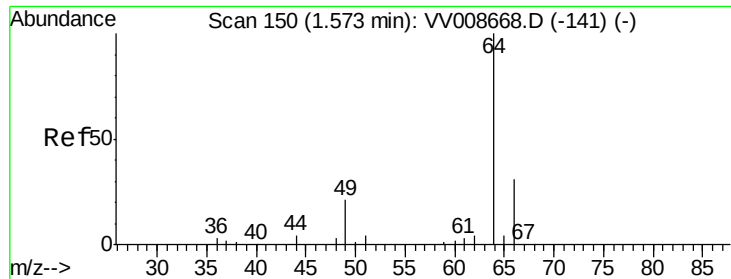
96 90.1 66.6 123.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 46.192 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.02 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

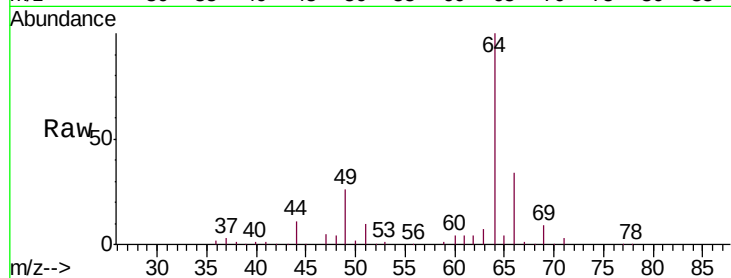
VSTD05078

Tgt Ion: 64 Resp: 54388

Ion Ratio Lower Upper

64 100

66 34.0 21.0 39.0



Abundance Ion 64.00 (63.70 to 64.70): VV008668.D (-141) (-)

Ion 66.00 (65.70 to 66.70): VV008668.D (-141) (-)

1.59

50000

40000

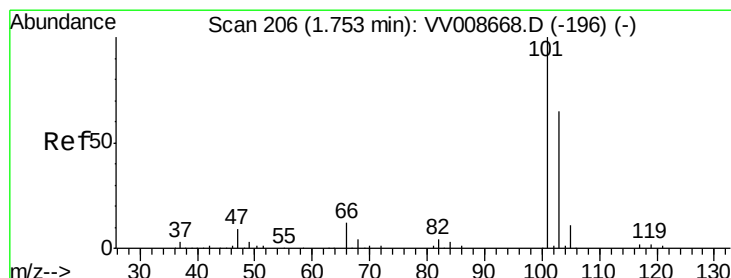
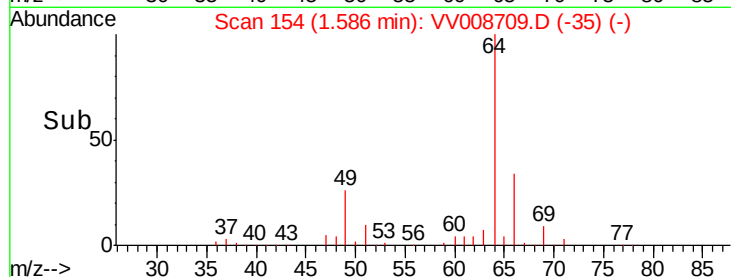
30000

20000

10000

0

Time-->



#9

Trichlorofluoromethane

Concen: 47.423 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.01 min

Lab File: VV008709.D

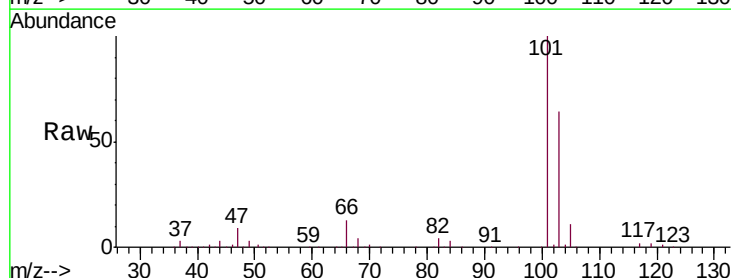
Acq: 26 Nov 2018 12:01

Tgt Ion: 101 Resp: 143437

Ion Ratio Lower Upper

101 100

103 64.0 50.2 75.4



Abundance Ion 101.00 (100.70 to 101.70): VV008668.D (-196) (-)

Ion 103.00 (102.70 to 103.70): VV008668.D (-196) (-)

1.76

120000

100000

80000

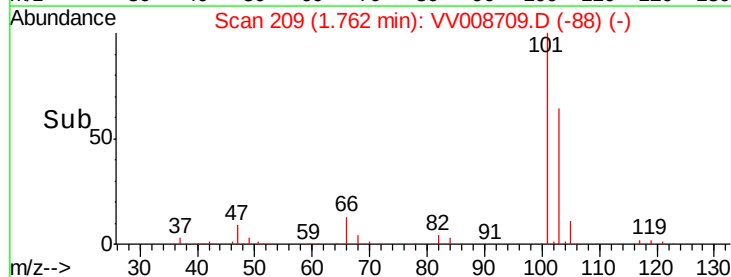
60000

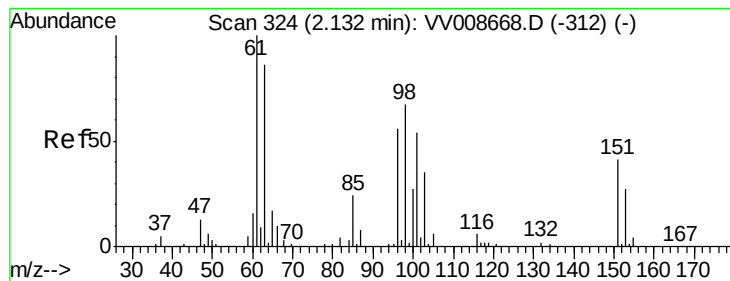
40000

20000

0

Time-->





#10

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

Concen: 48.097 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

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ClientSampleId :

VSTD05078

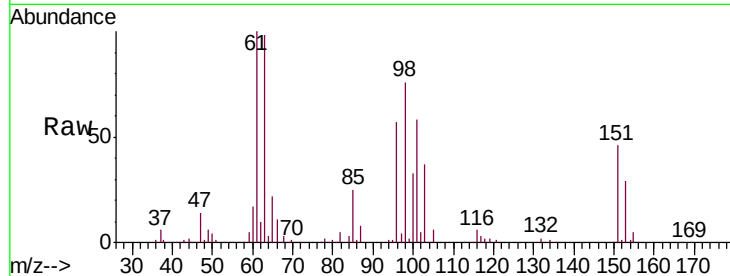
Tgt Ion:101 Resp: 83974

Ion Ratio Lower Upper

101 100

85 43.2 37.0 55.6

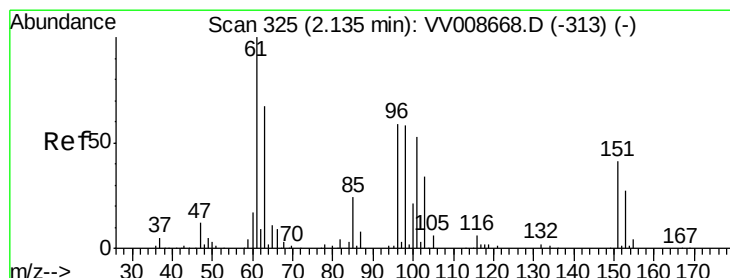
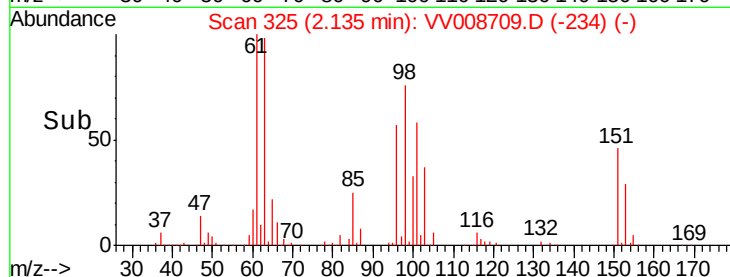
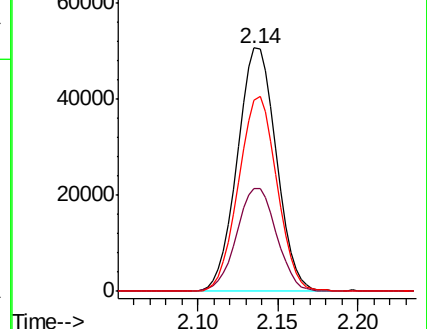
151 78.8 63.8 95.8



Abundance Ion 101.00 (100.70 to 101.70): VV008709.D (-234) (-)

Ion 85.00 (84.70 to 85.70): VV008709.D (-234) (-)

Ion 151.00 (150.70 to 151.70): VV008709.D (-234) (-)



#12

1,1-Dichloroethene

Concen: 47.397 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

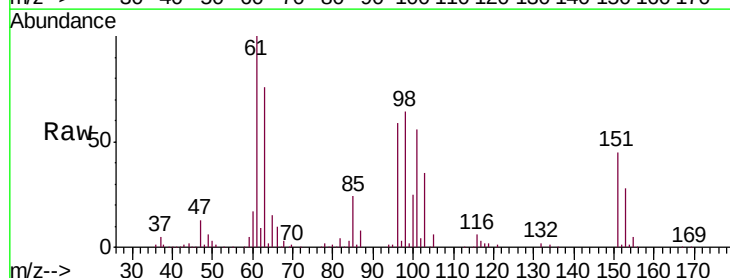
Tgt Ion: 96 Resp: 74276

Ion Ratio Lower Upper

96 100

61 170.6 120.3 223.3

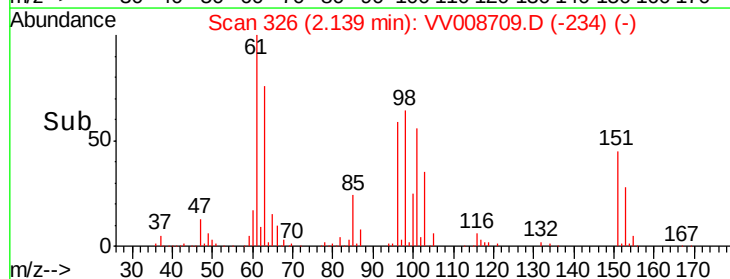
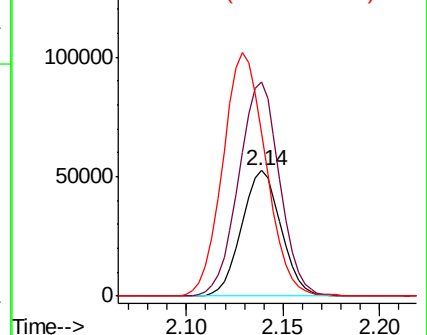
63 129.7 113.3 210.5

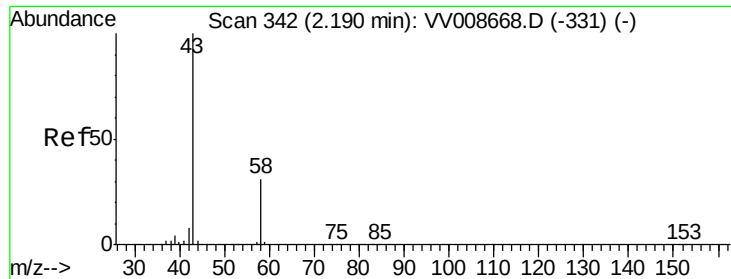


Abundance Ion 96.00 (95.70 to 96.70): VV008709.D (-234) (-)

Ion 61.00 (60.70 to 61.70): VV008709.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV008709.D (-234) (-)





#13

Acetone

Concen: 87.167 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

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MSVOA_V

ClientSampleId :

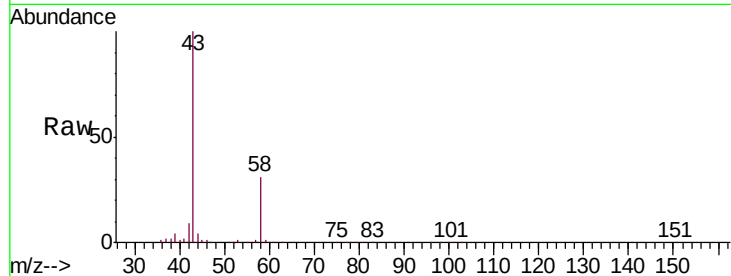
VSTD05078

Tgt Ion: 43 Resp: 153074

Ion Ratio Lower Upper

43 100

58 31.7 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VV008668.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV008668.D (-331) (-)

2.19

100000

80000

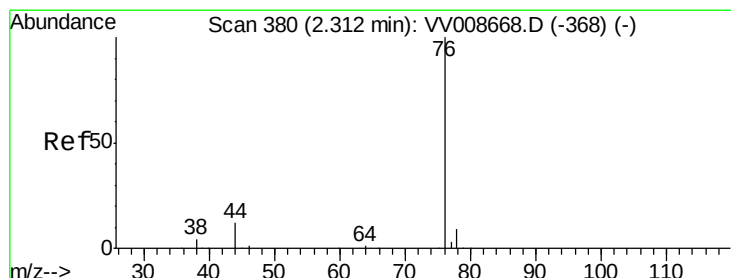
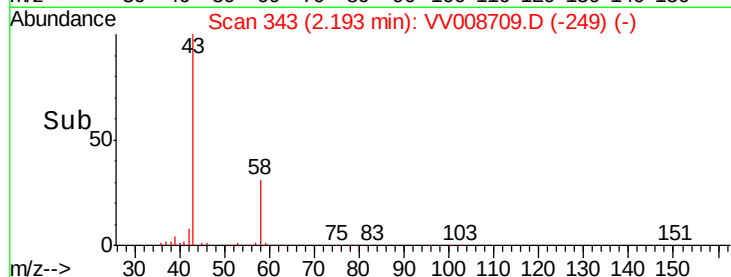
60000

40000

20000

0

Time--> 2.10 2.20 2.30



#14

Carbon disulfide

Concen: 43.561 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.01 min

Lab File: VV008709.D

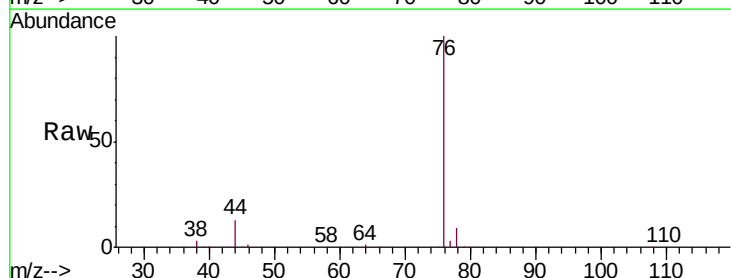
Acq: 26 Nov 2018 12:01

Tgt Ion: 76 Resp: 265828

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV008668.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV008668.D (-368) (-)

2.32

200000

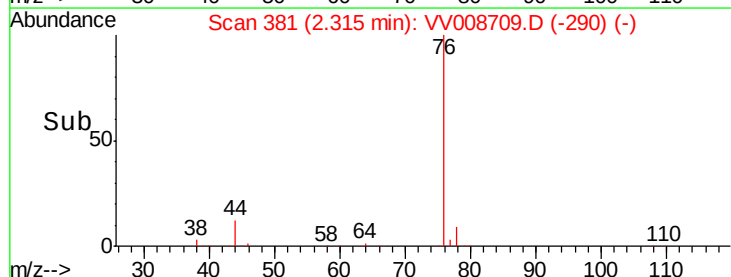
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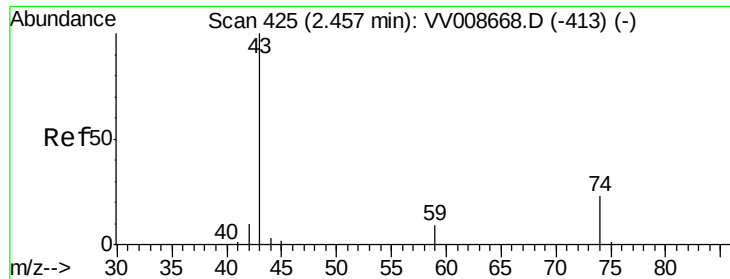
100000

50000

0

Time--> 2.25 2.30 2.35 2.40

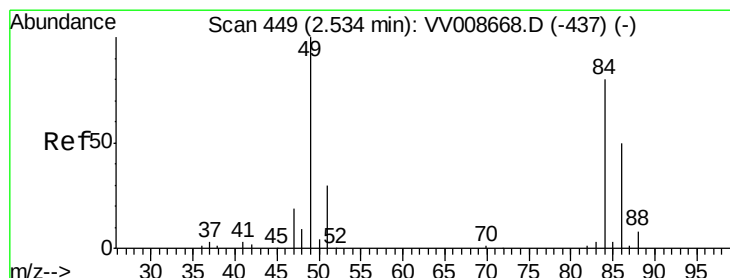
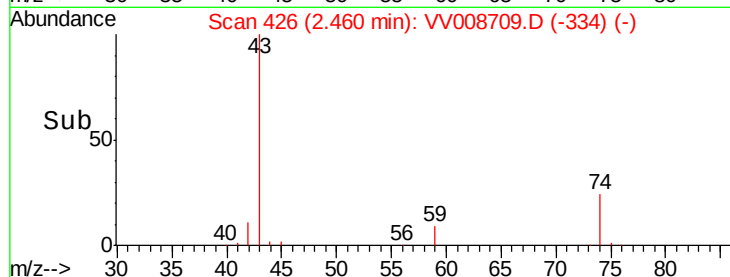
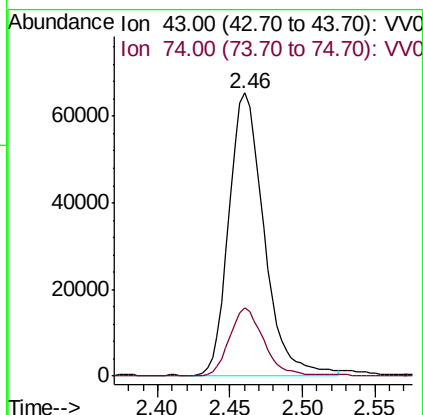
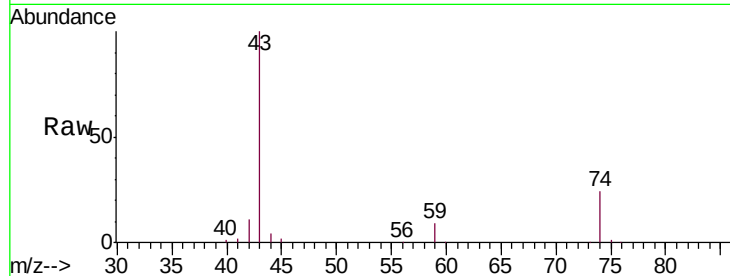




#15
Methyl Acetate
Concen: 39.648 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

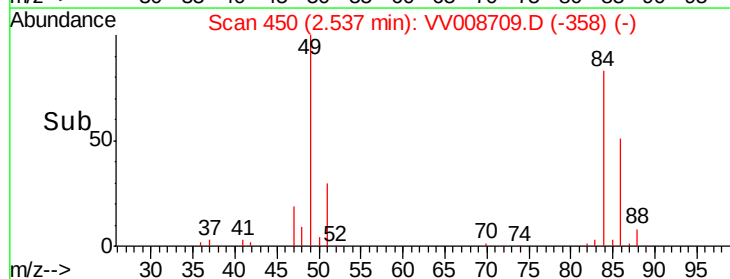
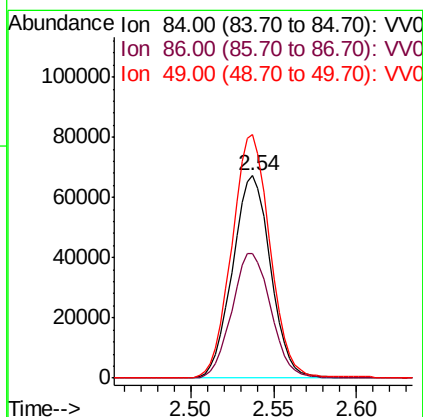
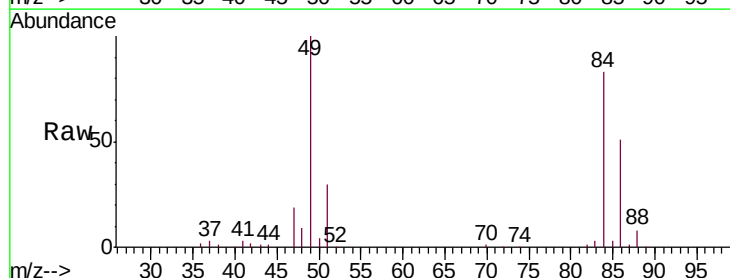
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

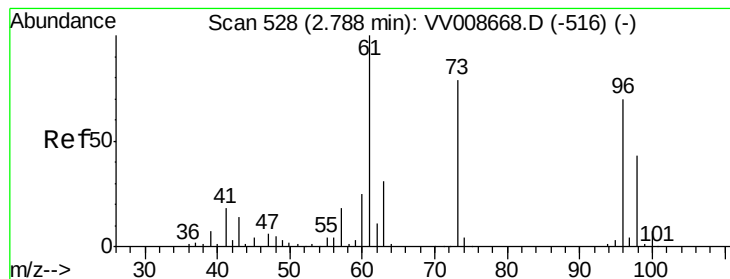
Tgt Ion: 43 Resp: 109786
Ion Ratio Lower Upper
43 100
74 23.6 19.0 28.6



#16
Methylene chloride
Concen: 44.254 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

Tgt Ion: 84 Resp: 107415
Ion Ratio Lower Upper
84 100
86 61.8 50.6 94.0
49 120.3 86.5 160.7





#17

trans-1,2-Dichloroethene

Concen: 45.718 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampled :

VSTD05078

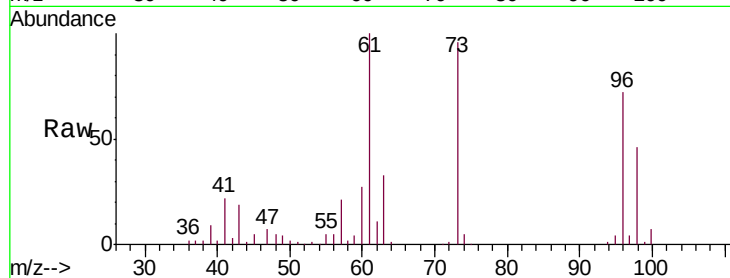
Tgt Ion: 96 Resp: 99371

Ion Ratio Lower Upper

96 100

61 138.7 100.4 186.4

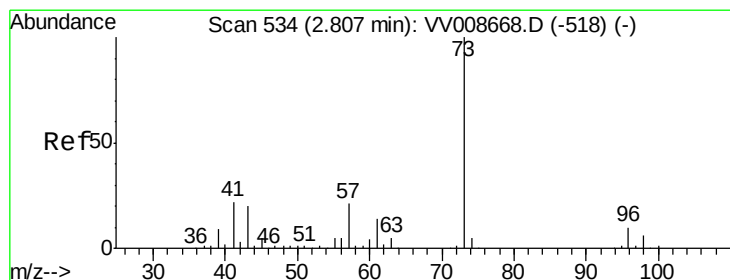
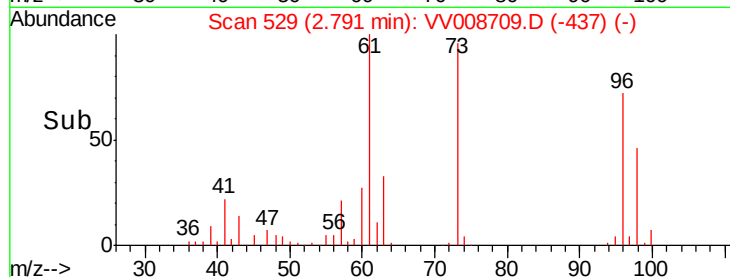
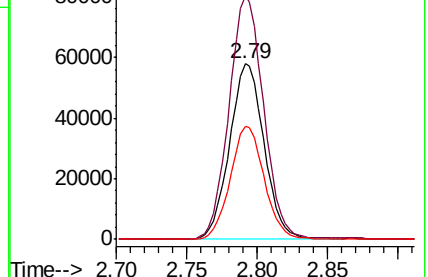
98 64.5 39.5 73.3



Abundance Ion 96.00 (95.70 to 96.70): VV008668.D (-516) (-)

Ion 61.00 (60.70 to 61.70): VV008668.D (-516) (-)

Ion 98.00 (97.70 to 98.70): VV008668.D (-516) (-)



#18

Methyl tert-butyl Ether

Concen: 44.205 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

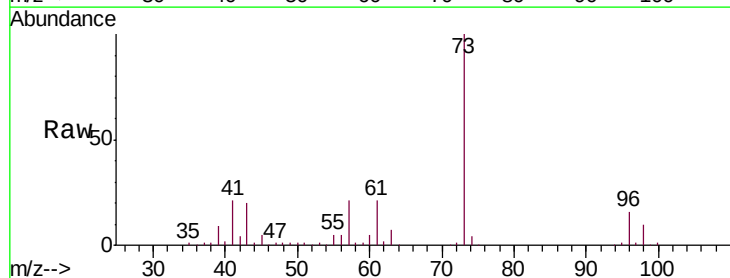
Tgt Ion: 73 Resp: 319103

Ion Ratio Lower Upper

73 100

43 20.1 16.5 24.7

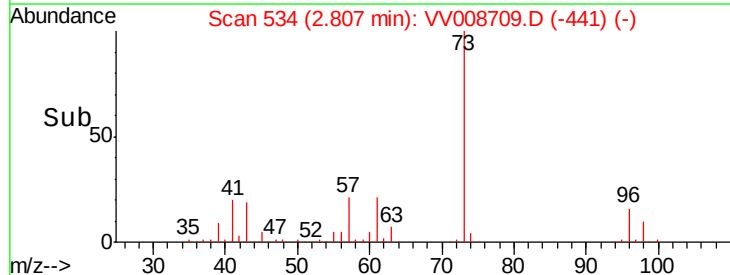
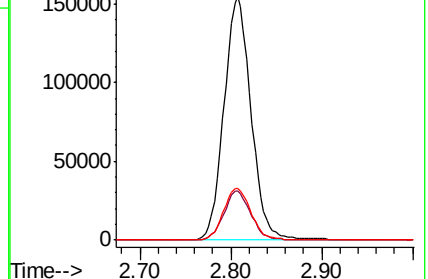
57 21.7 17.7 26.5

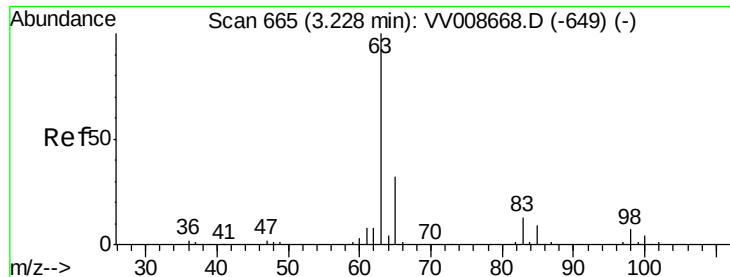


Abundance Ion 73.00 (72.70 to 73.70): VV008668.D (-518) (-)

Ion 43.00 (42.70 to 43.70): VV008668.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VV008668.D (-518) (-)

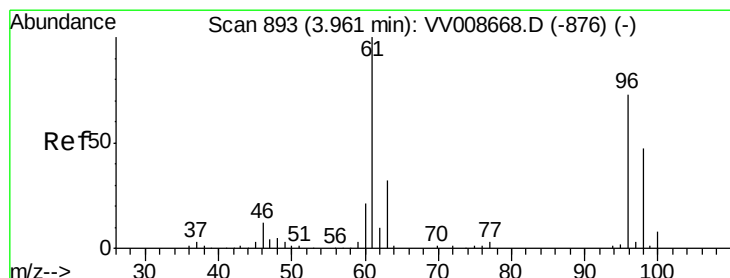
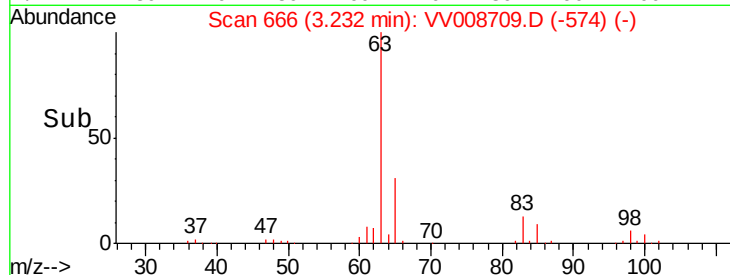
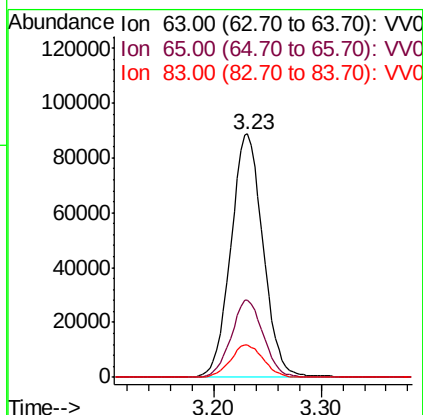
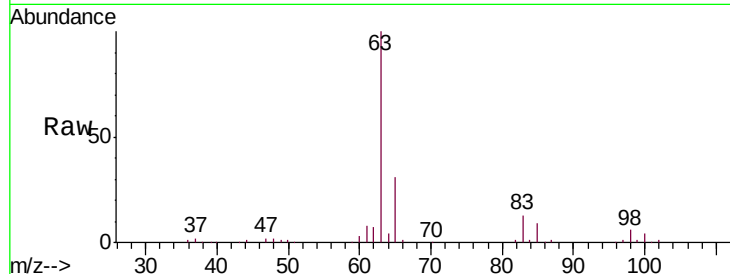




#19
 1,1-Dichloroethane
 Concen: 44.330 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

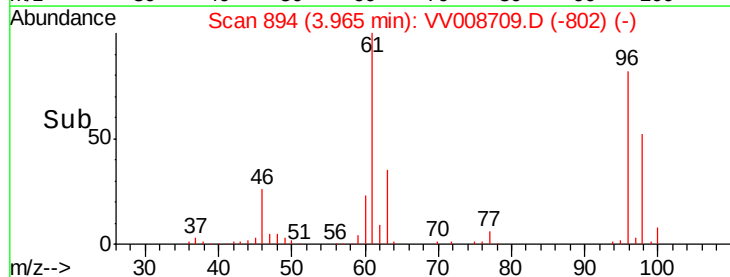
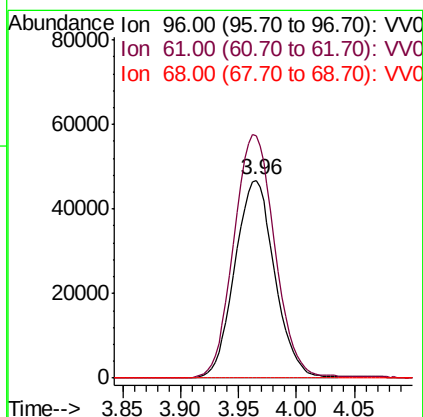
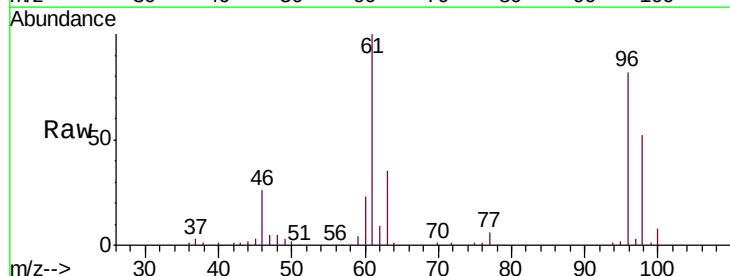
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

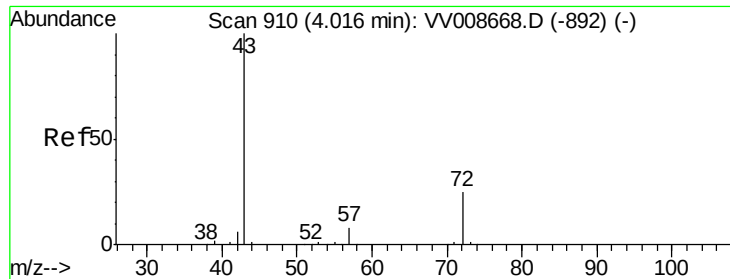
Tgt Ion: 63 Resp: 184847
 Ion Ratio Lower Upper
 63 100
 65 31.5 20.9 38.9
 83 13.2 9.9 18.5



#20
 cis-1,2-Dichloroethene
 Concen: 45.109 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Tgt Ion: 96 Resp: 112110
 Ion Ratio Lower Upper
 96 100
 61 122.3 78.8 146.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 81.811 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.01 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

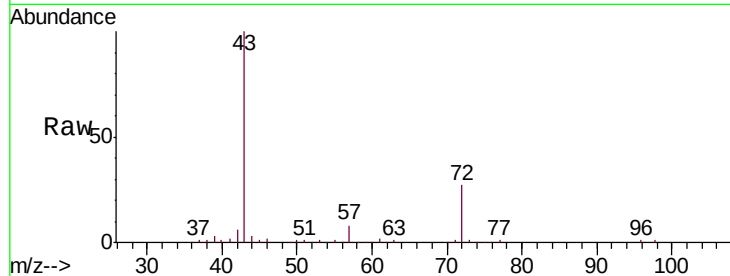
VSTD05078

Tgt Ion: 43 Resp: 181921

Ion Ratio Lower Upper

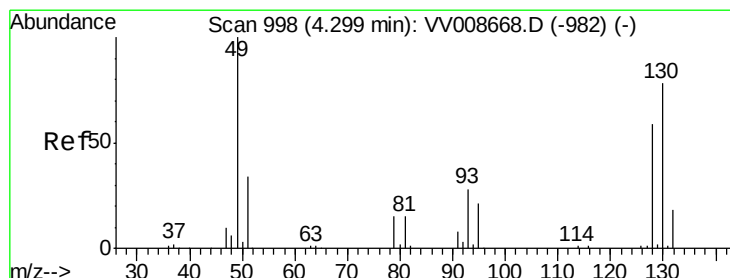
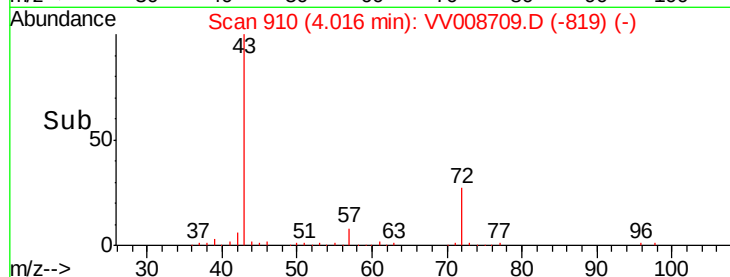
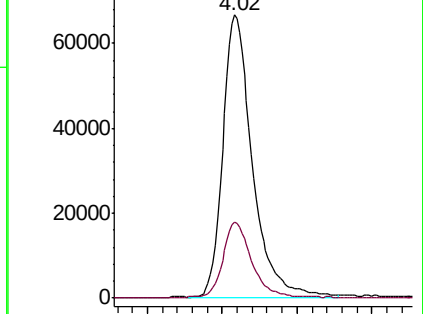
43 100

72 25.1 11.6 34.8



Abundance Ion 43.00 (42.70 to 43.70): VV008668.D (-892) (-)

Ion 72.00 (71.70 to 72.70): VV008668.D (-892) (-)



#23

Bromochloromethane

Concen: 45.395 ug/L

RT: 4.30 min Scan# 999

Delta R.T. -0.01 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Tgt Ion: 128 Resp: 54332

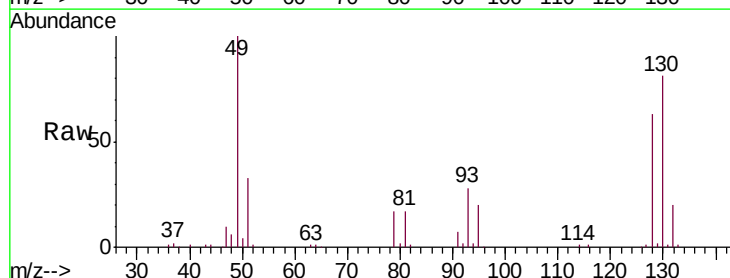
Ion Ratio Lower Upper

128 100

49 157.9 97.0 180.2

130 128.5 81.0 150.4

51 52.3 36.8 55.2

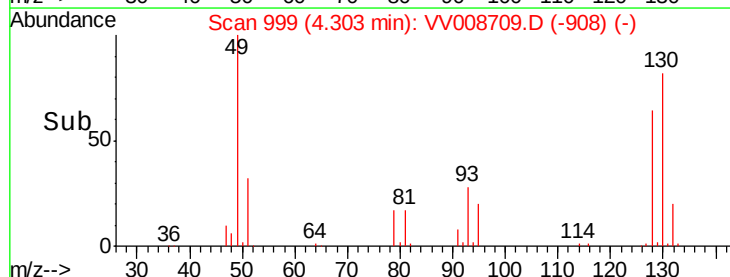
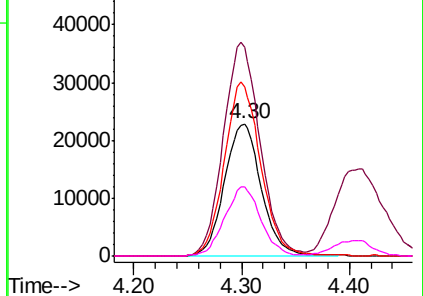


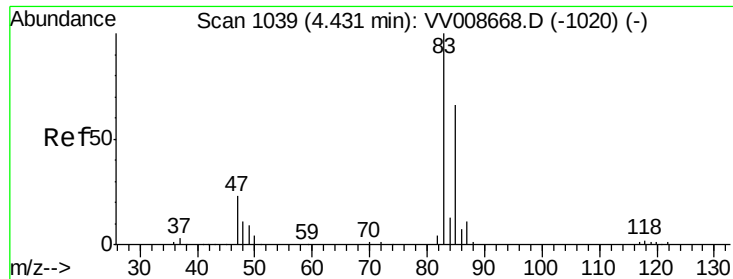
Abundance Ion 128.00 (127.70 to 128.70): VV008668.D (-982) (-)

Ion 49.00 (48.70 to 49.70): VV008668.D (-982) (-)

Ion 130.00 (129.70 to 130.70): VV008668.D (-982) (-)

Ion 51.00 (50.70 to 51.70): VV008668.D (-982) (-)

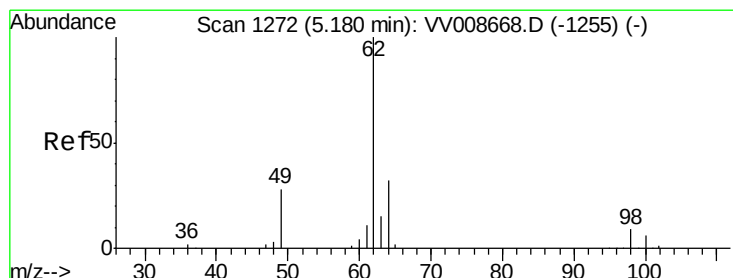
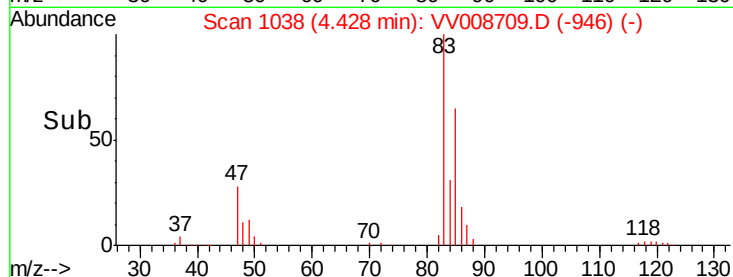
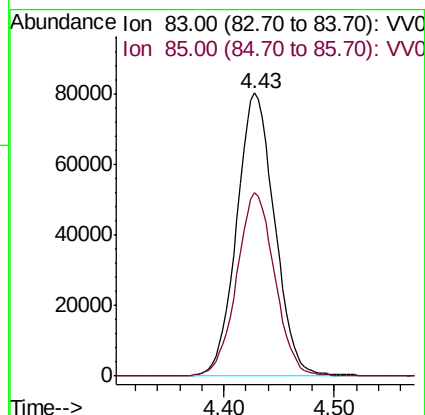
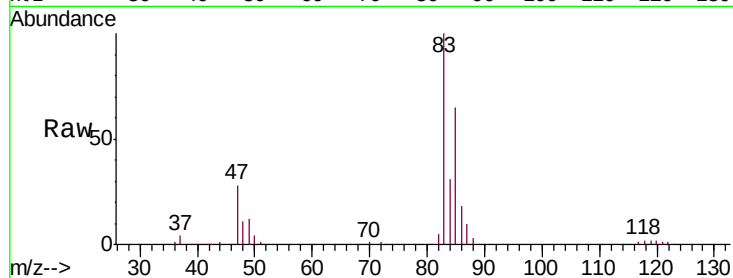




#25
Chloroform
Concen: 44.188 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

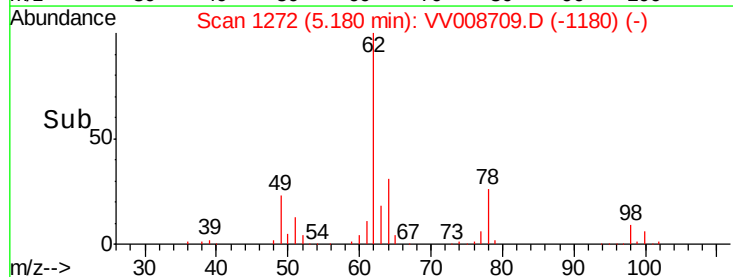
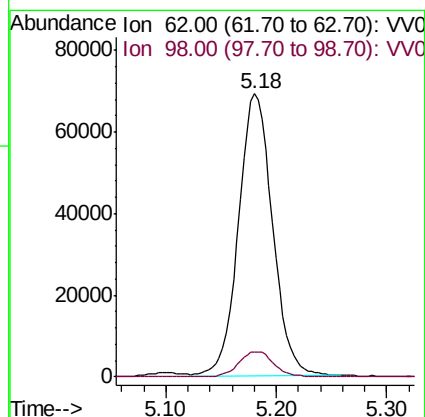
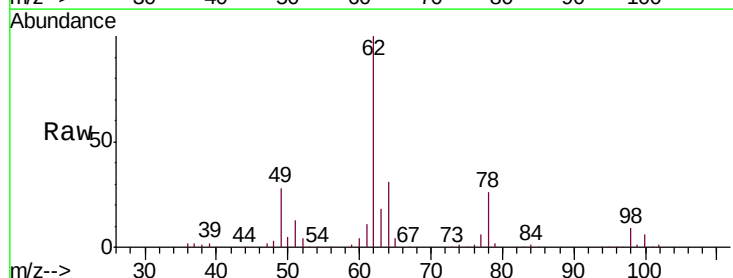
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

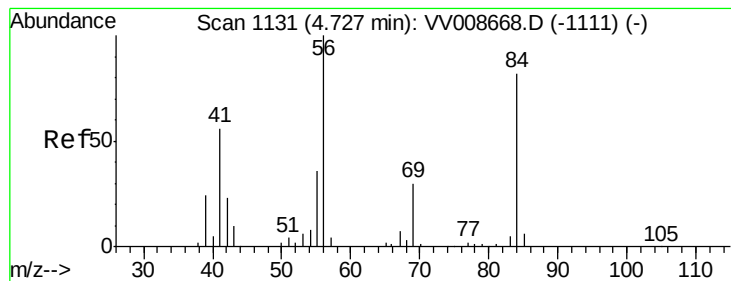
Tgt Ion: 83 Resp: 191781
Ion Ratio Lower Upper
83 100
85 64.7 42.8 79.4



#27
1,2-Dichloroethane
Concen: 44.032 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

Tgt Ion: 62 Resp: 148044
Ion Ratio Lower Upper
62 100
98 8.8 7.4 11.2





#29

Cyclohexane

Concen: 46.032 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

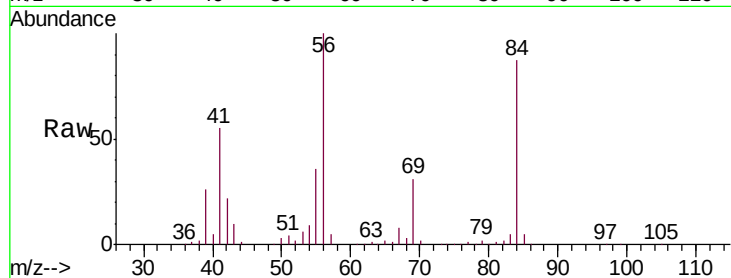
Tgt Ion: 56 Resp: 174063

Ion Ratio Lower Upper

56 100

69 30.9 0.0 0.0#

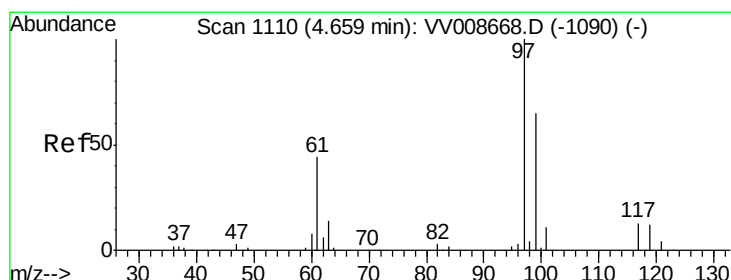
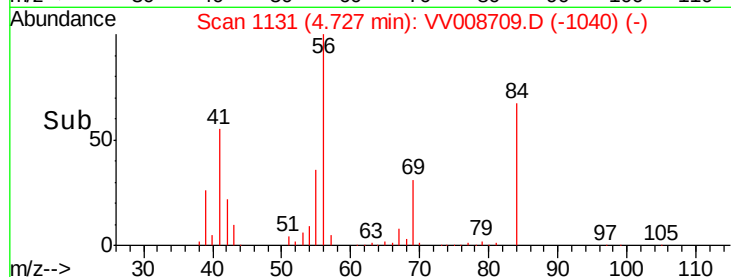
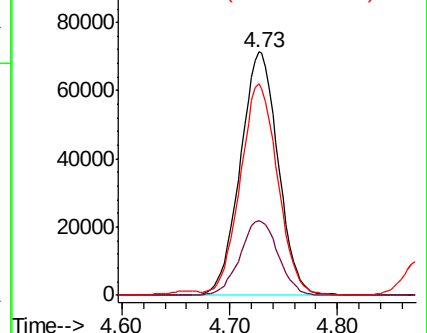
84 85.5 0.0 0.0#



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 48.396 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

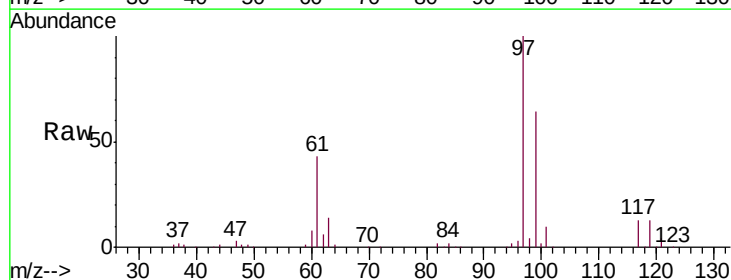
Tgt Ion: 97 Resp: 166931

Ion Ratio Lower Upper

97 100

99 64.8 53.0 79.6

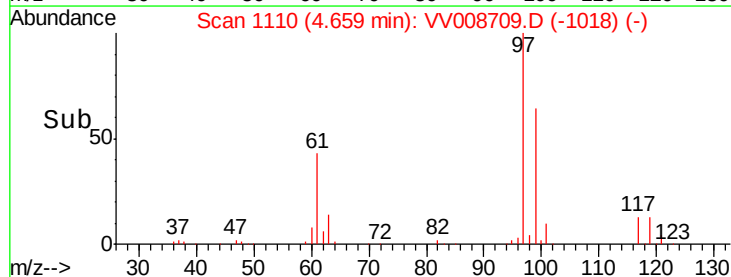
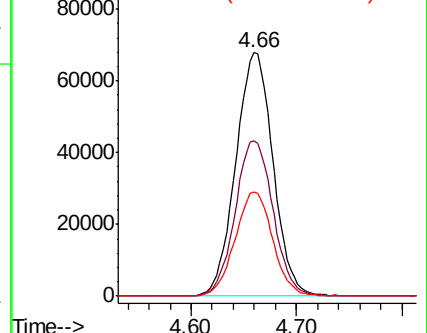
61 43.2 37.4 56.2

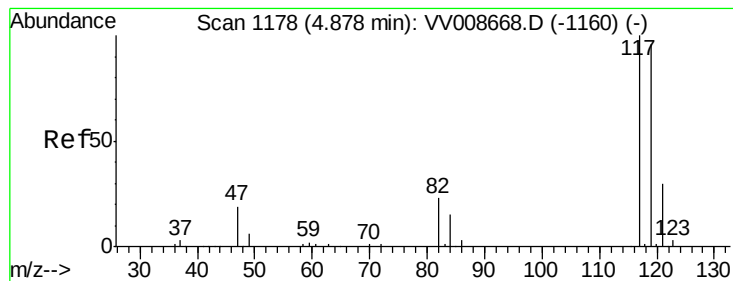


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 50.408 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

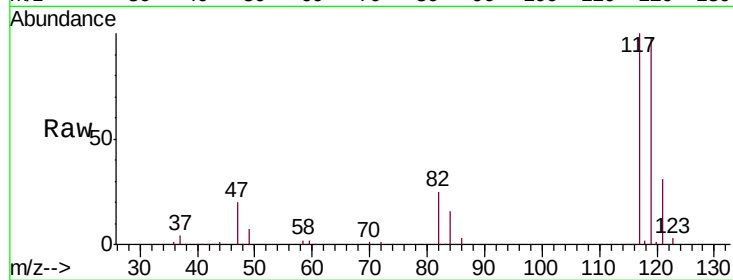
VSTD05078

Tgt Ion:117 Resp: 144595

Ion Ratio Lower Upper

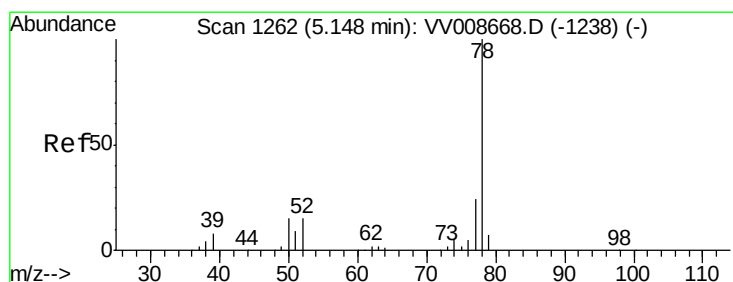
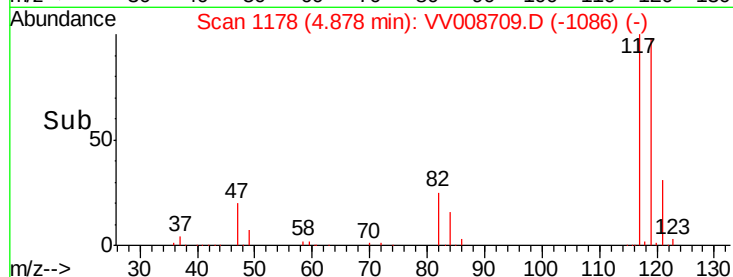
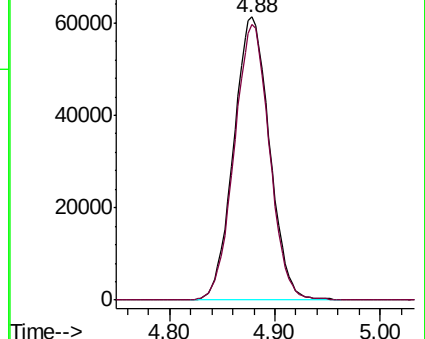
117 100

119 95.5 75.6 113.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 46.652 ug/L

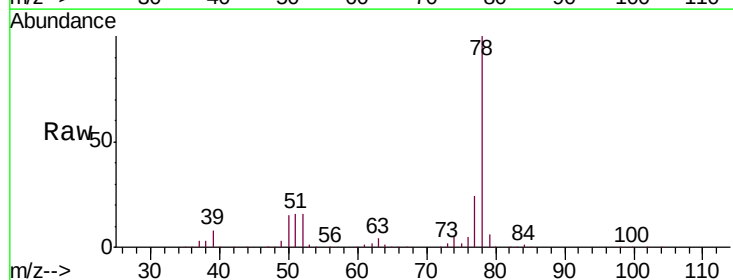
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

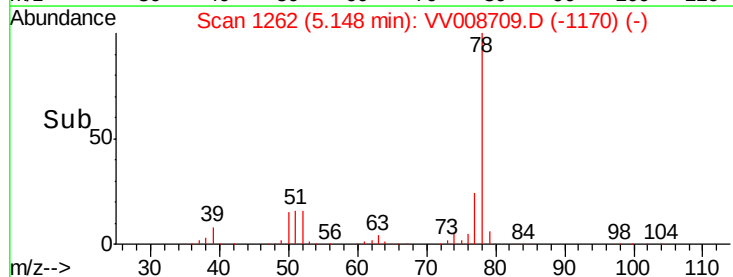
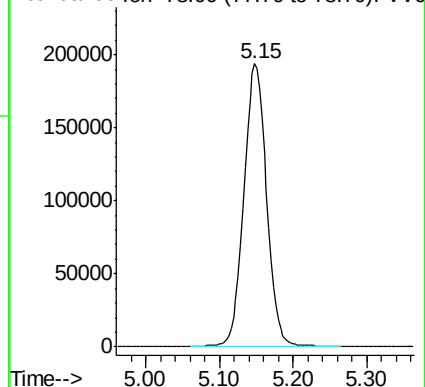
Lab File: VV008709.D

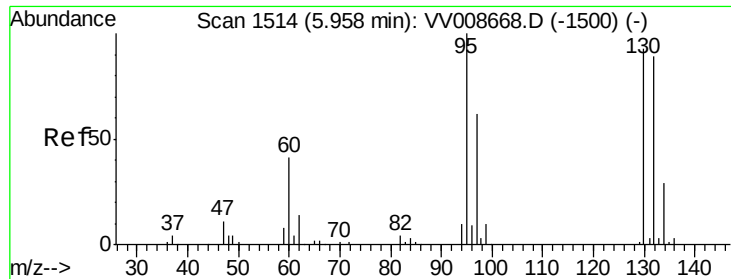
Acq: 26 Nov 2018 12:01

Tgt Ion: 78 Resp: 418659



Abundance Ion 78.00 (77.70 to 78.70): VV0

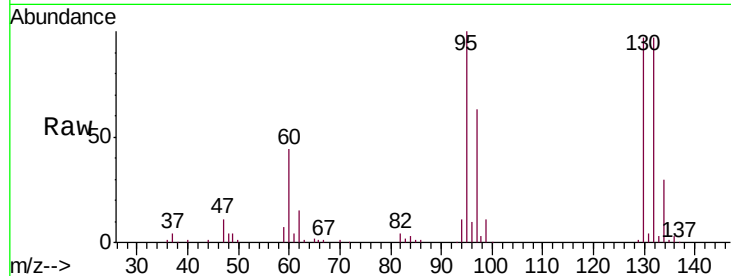




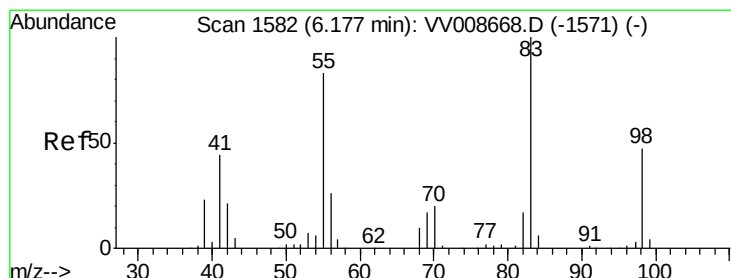
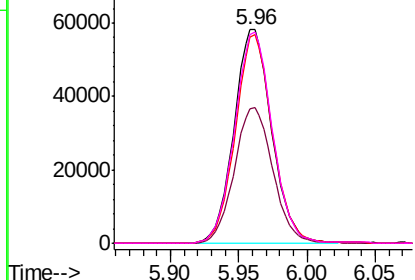
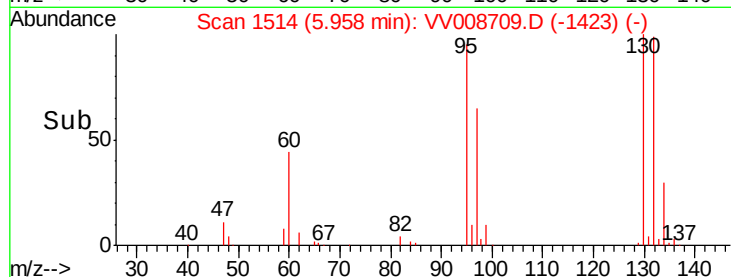
#34
 Trichloroethene
 Concen: 46.979 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.01 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05078

Tgt Ion: 95 Resp: 111728
 Ion Ratio Lower Upper
 95 100
 97 63.0 43.8 81.3
 132 96.5 58.3 108.3
 130 97.5 60.3 112.1

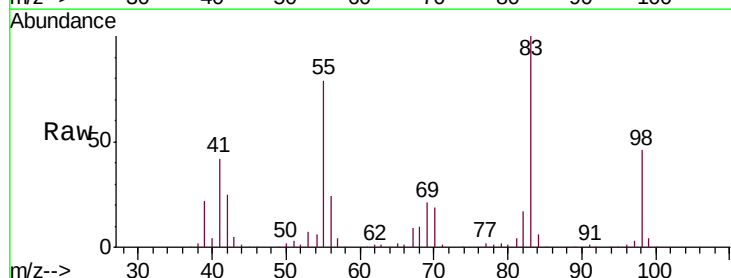


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

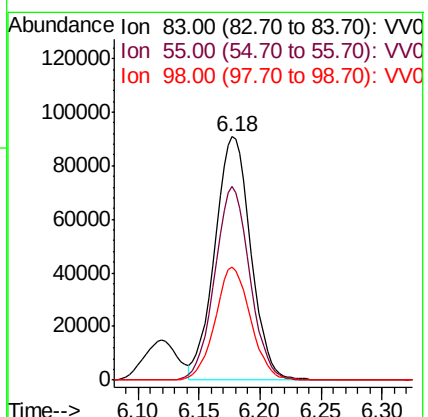
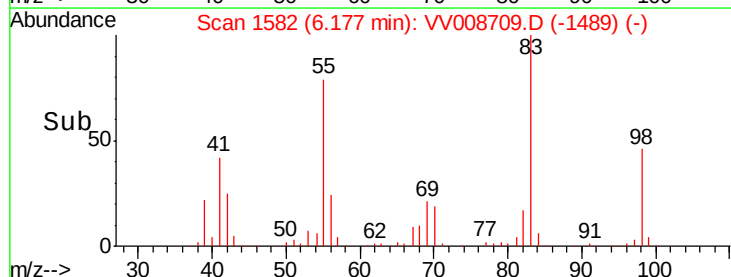


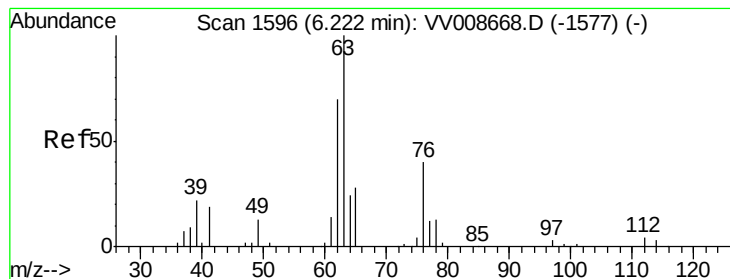
#35
 Methylcyclohexane
 Concen: 47.917 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Tgt Ion: 83 Resp: 188170
 Ion Ratio Lower Upper
 83 100
 55 77.5 63.0 94.6
 98 45.9 35.4 53.0



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 45.673 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

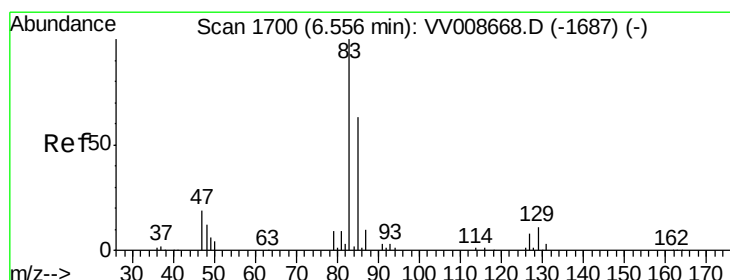
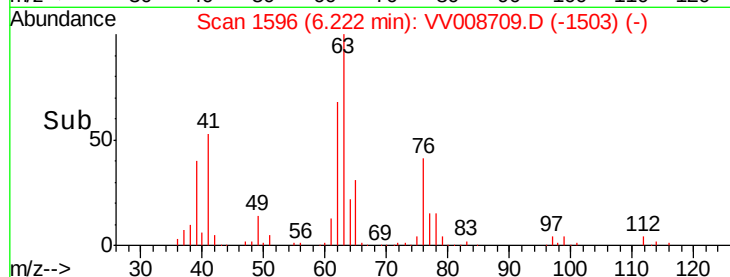
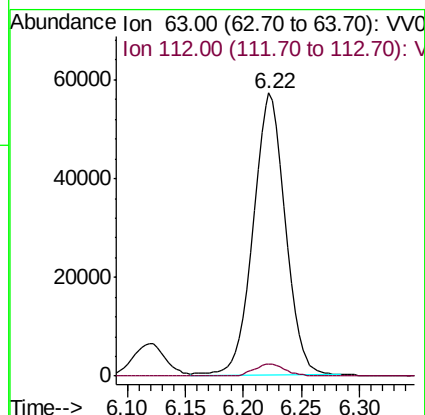
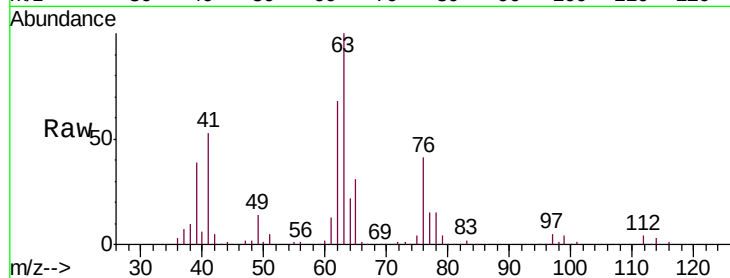
VSTD05078

Tgt Ion: 63 Resp: 110708

Ion Ratio Lower Upper

63 100

112 4.2 1.6 2.4#



#38

Bromodichloromethane

Concen: 47.770 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

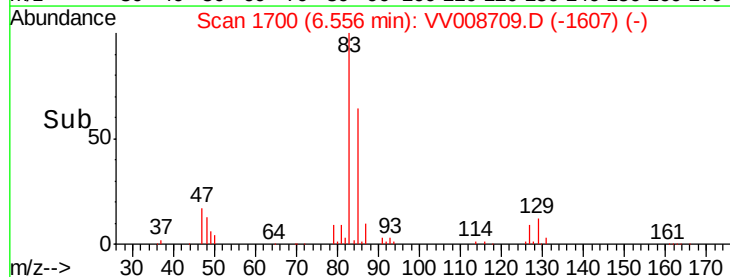
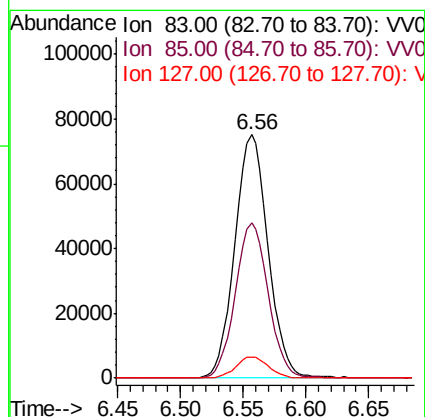
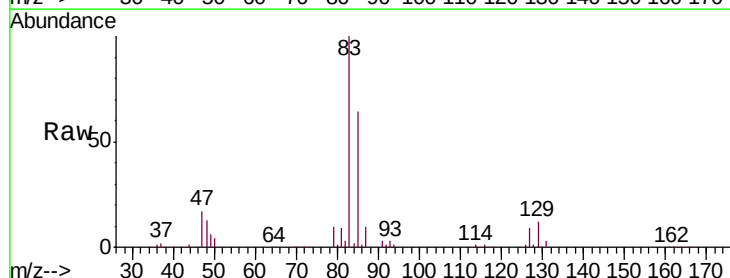
Tgt Ion: 83 Resp: 138758

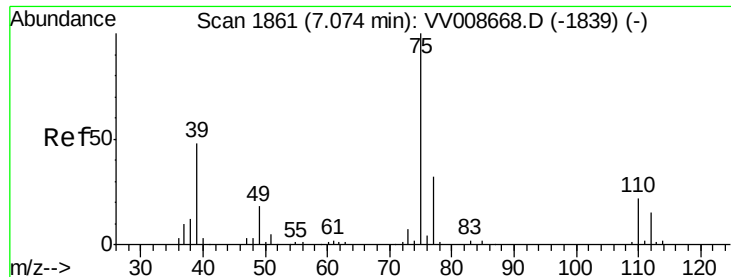
Ion Ratio Lower Upper

83 100

85 63.6 44.3 82.3

127 8.8 6.8 10.2

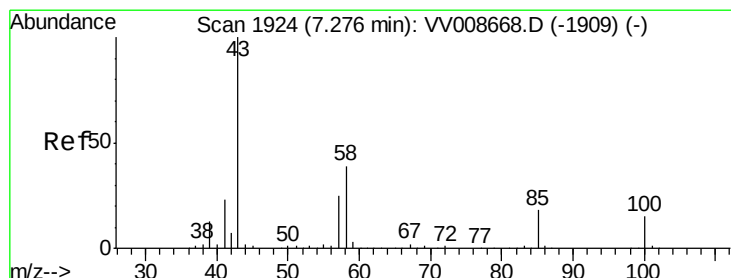
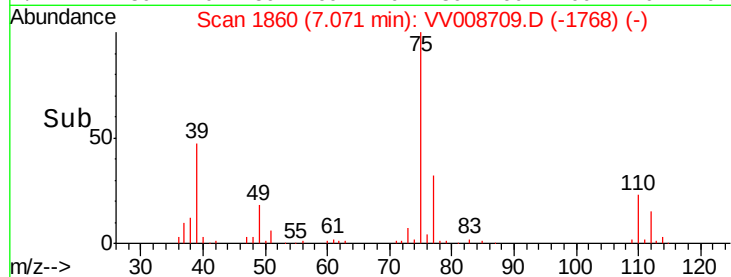
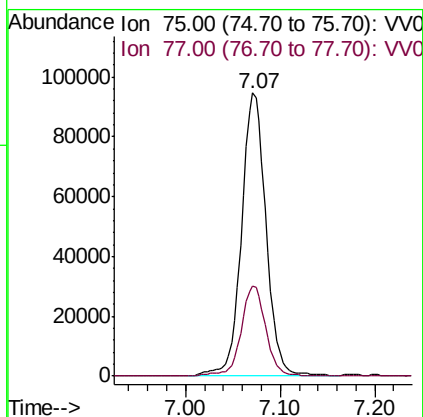
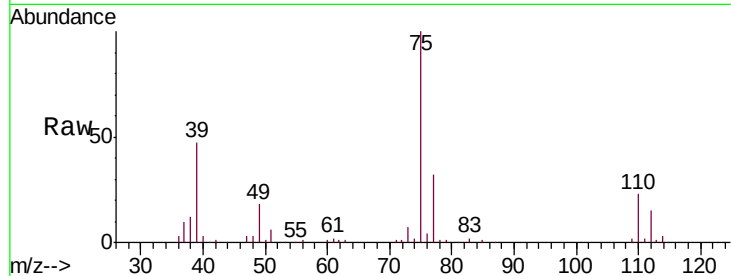




#39
 cis-1,3-Dichloropropene
 Concen: 49.526 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

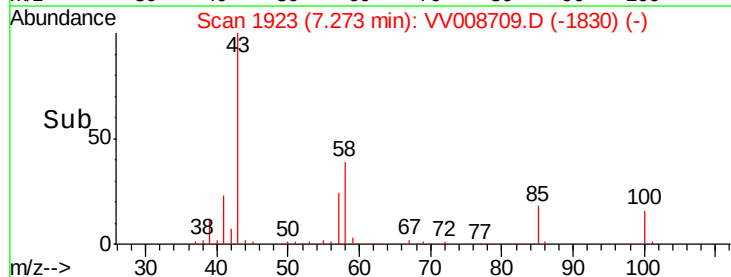
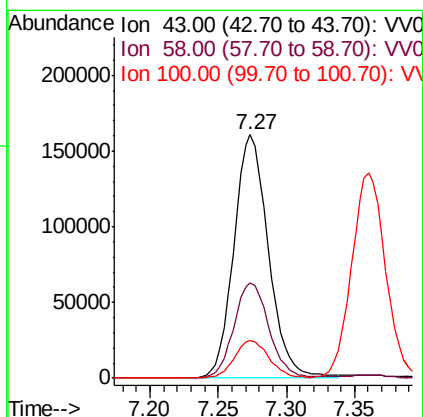
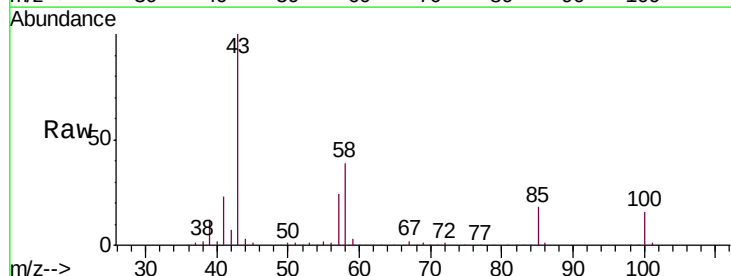
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05078

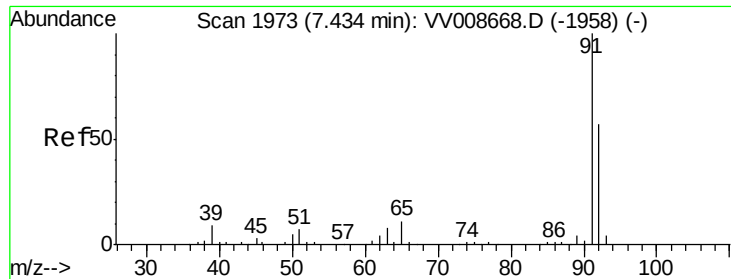
Tgt Ion: 75 Resp: 170621
 Ion Ratio Lower Upper
 75 100
 77 32.1 20.2 37.4



#40
 4-Methyl-2-pentanone
 Concen: 83.124 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Tgt Ion: 43 Resp: 282959
 Ion Ratio Lower Upper
 43 100
 58 39.9 28.3 42.5
 100 15.5 10.4 15.6





#42

Toluene

Concen: 47.760 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

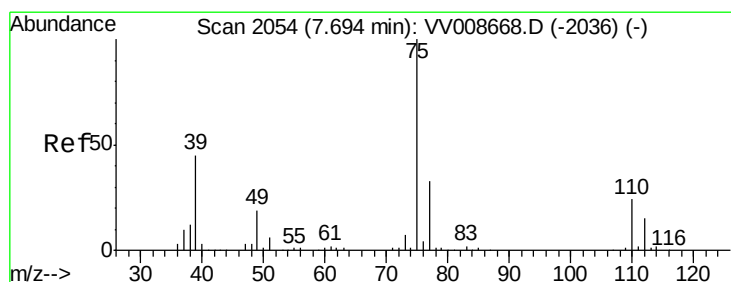
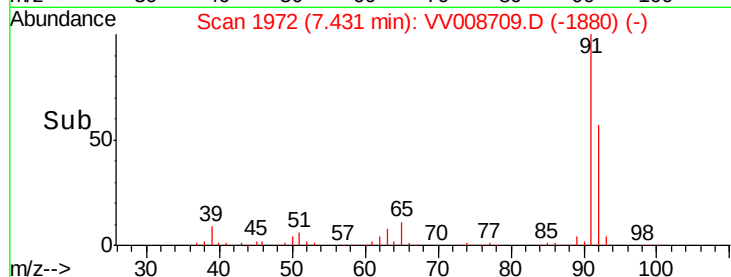
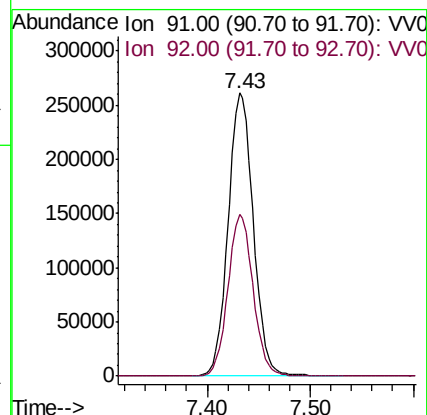
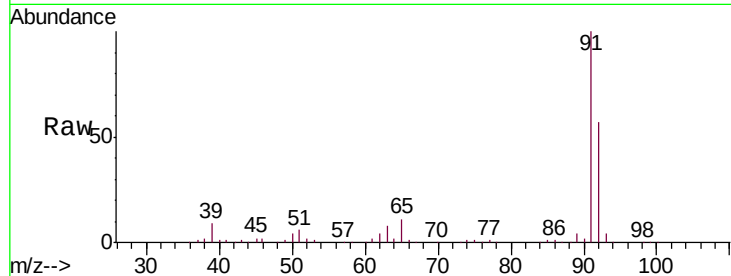
VSTD05078

Tgt Ion: 91 Resp: 445718

Ion Ratio Lower Upper

91 100

92 57.0 41.6 77.2



#44

trans-1,3-Dichloropropene

Concen: 49.652 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV008709.D

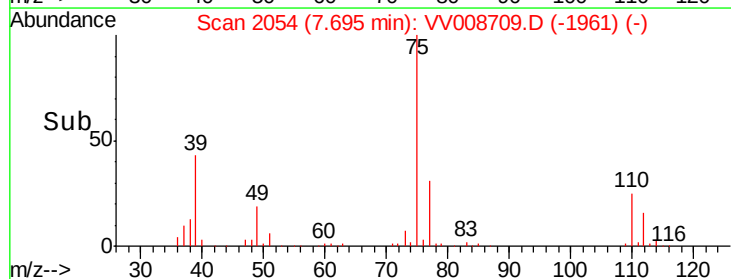
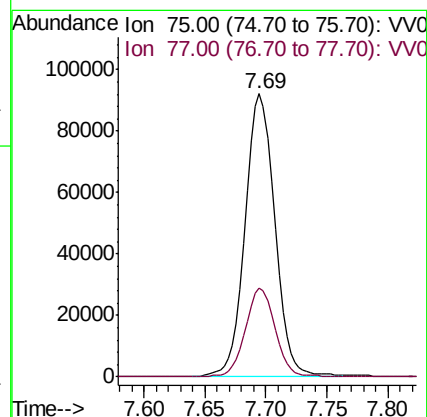
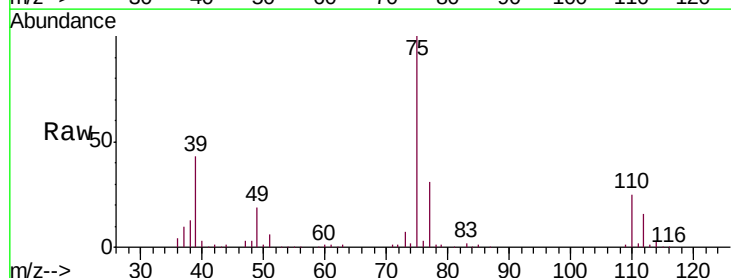
Acq: 26 Nov 2018 12:01

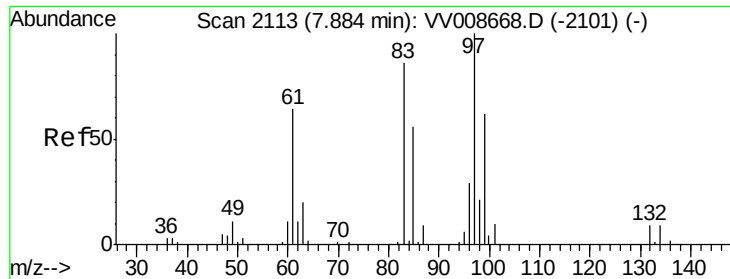
Tgt Ion: 75 Resp: 155604

Ion Ratio Lower Upper

75 100

77 31.4 24.6 45.8

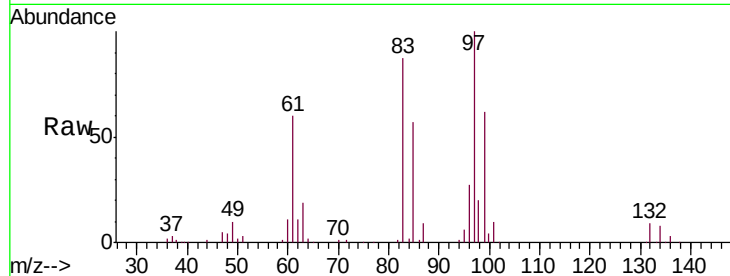




#45
 1,1,2-Trichloroethane
 Concen: 47.001 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Tgt Ion:	97	Resp:	103968
Ion	Ratio	Lower	Upper
97	100		
99	62.2	40.0	74.2
83	87.3	56.6	105.0
85	56.8	35.1	65.3



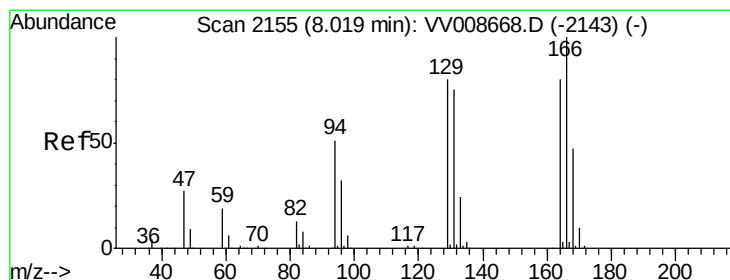
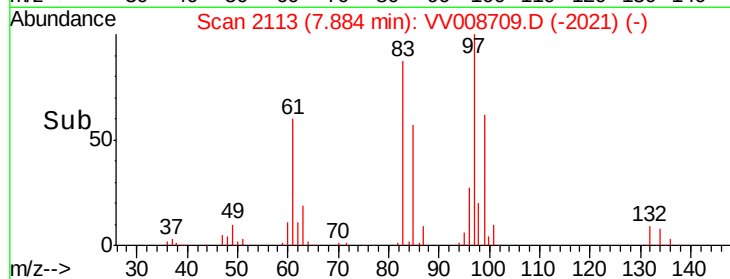
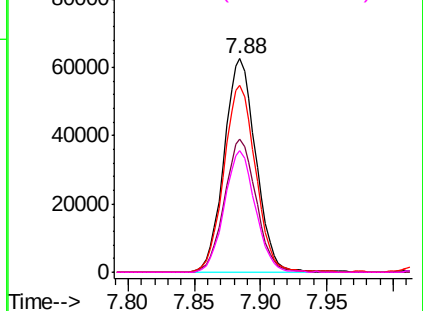
Abundance

Ion 97.00 (96.70 to 97.70): VV008709.D (-2021) (-)

Ion 99.00 (98.70 to 99.70): VV008709.D (-2021) (-)

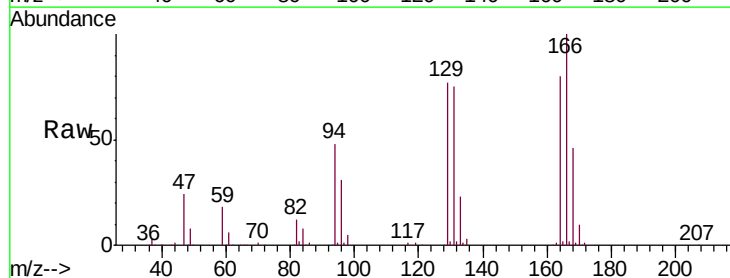
Ion 83.00 (82.70 to 83.70): VV008709.D (-2021) (-)

Ion 85.00 (84.70 to 85.70): VV008709.D (-2021) (-)



#46
 Tetrachloroethene
 Concen: 50.276 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Tgt Ion:	164	Resp:	86363
Ion	Ratio	Lower	Upper
164	100		
129	96.4	68.3	126.8
131	93.8	69.1	128.3
166	125.6	90.7	168.5



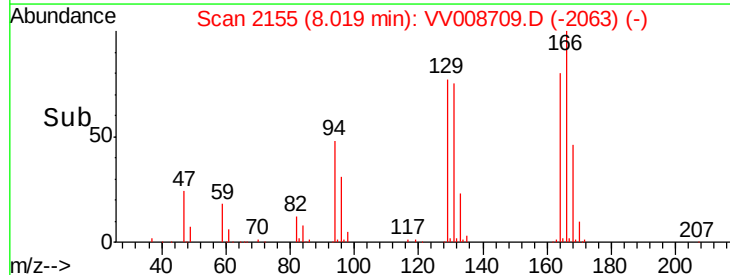
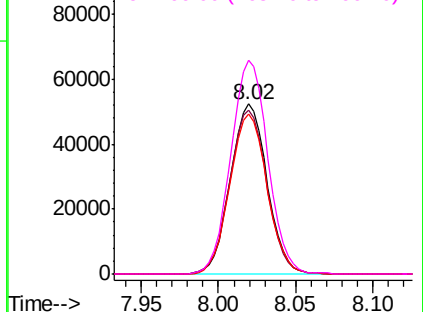
Abundance

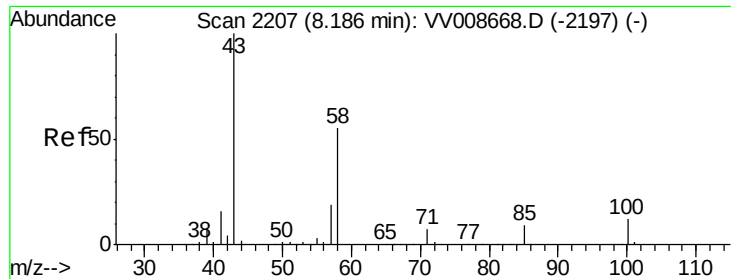
Ion 164.00 (163.70 to 164.70): VV008709.D (-2063) (-)

Ion 129.00 (128.70 to 129.70): VV008709.D (-2063) (-)

Ion 131.00 (130.70 to 131.70): VV008709.D (-2063) (-)

Ion 166.00 (165.70 to 166.70): VV008709.D (-2063) (-)

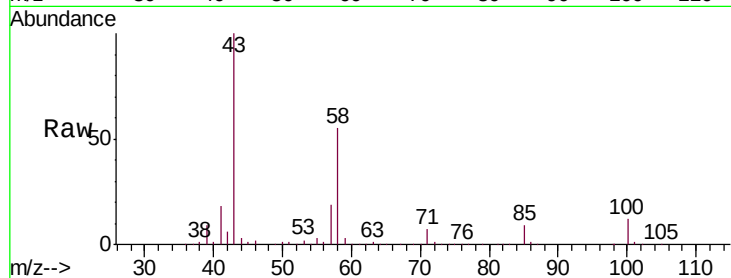




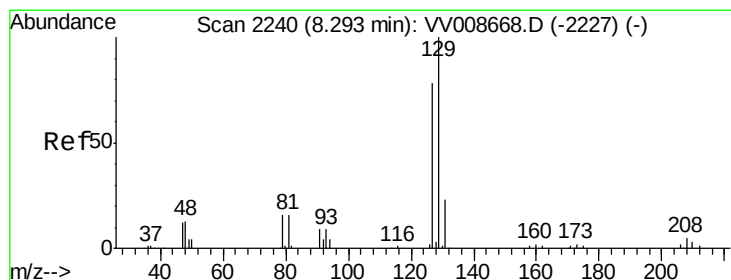
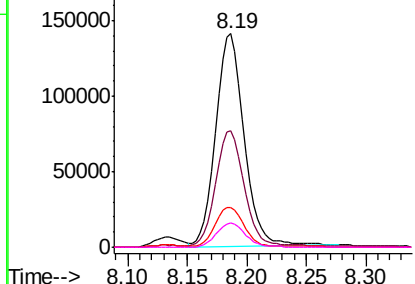
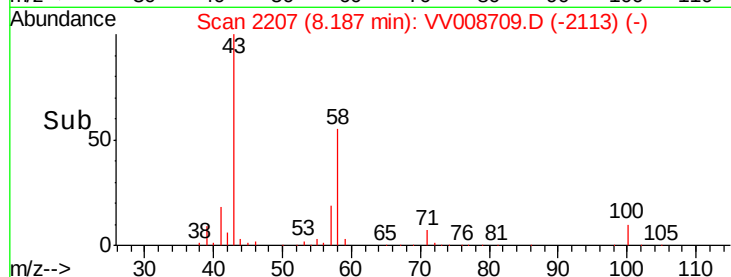
#48
2-Hexanone
Concen: 87.369 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Tgt Ion:	43	Resp:	233157
Ion	Ratio	Lower	Upper
43	100		
58	53.5	41.4	62.0
57	18.9	17.1	25.7
100	11.9	9.2	13.8

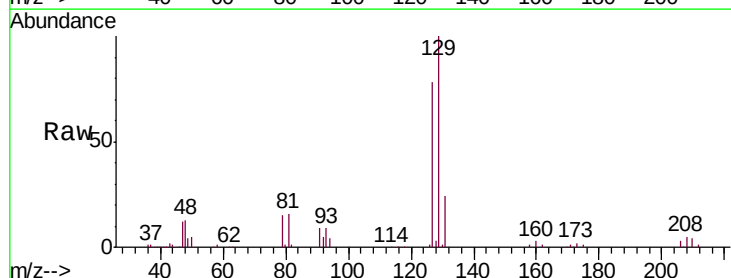


Abundance Ion 43.00 (42.70 to 43.70): VV008668.D (-2197) (-)
Ion 58.00 (57.70 to 58.70): VV008668.D (-2197) (-)
Ion 57.00 (56.70 to 57.70): VV008668.D (-2197) (-)
Ion 100.00 (99.70 to 100.70): VV008668.D (-2197) (-)

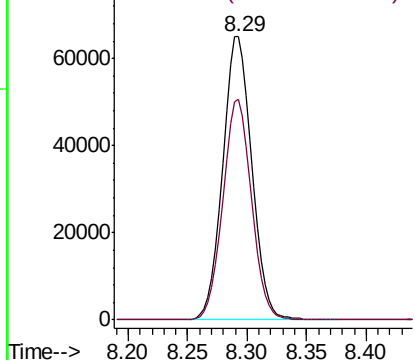
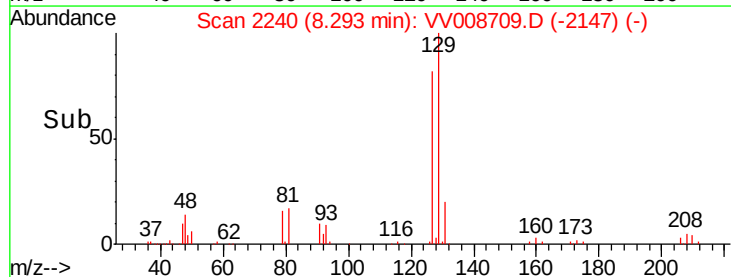


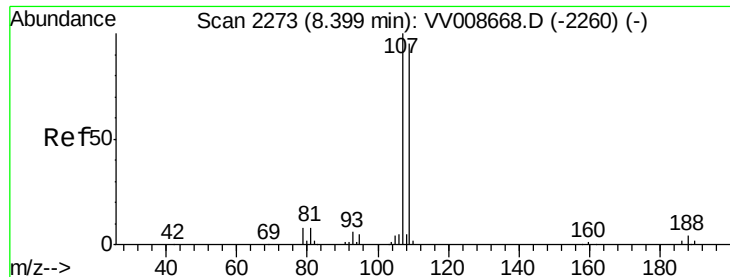
#49
Dibromochloromethane
Concen: 50.220 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

Tgt Ion:	129	Resp:	110355
Ion	Ratio	Lower	Upper
129	100		
127	78.1	58.2	108.0



Abundance Ion 129.00 (128.70 to 129.70): VV008668.D (-2227) (-)
Ion 127.00 (126.70 to 127.70): VV008668.D (-2227) (-)

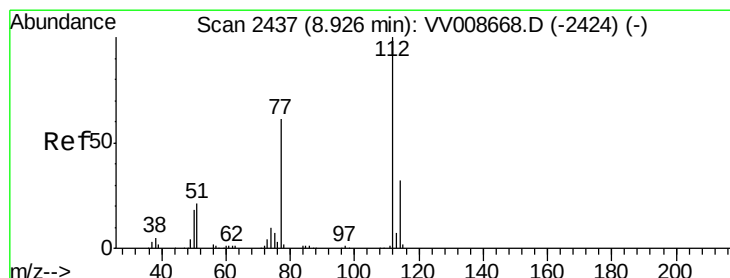
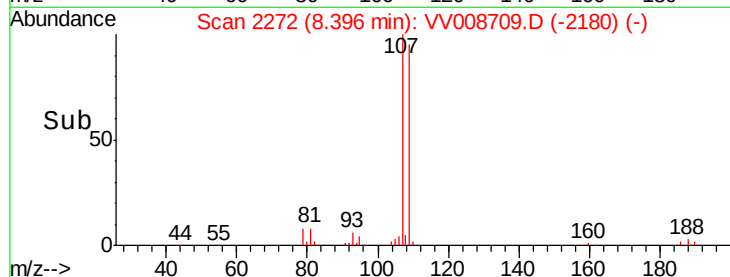
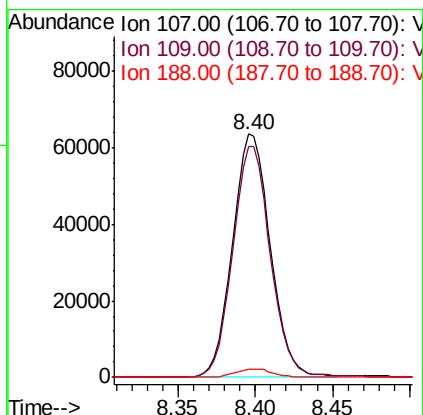
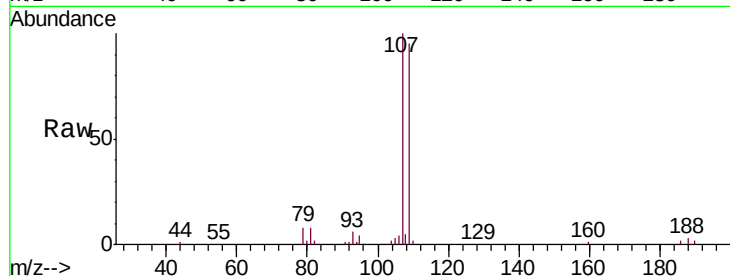




#50
1,2-Dibromoethane
Concen: 46.787 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

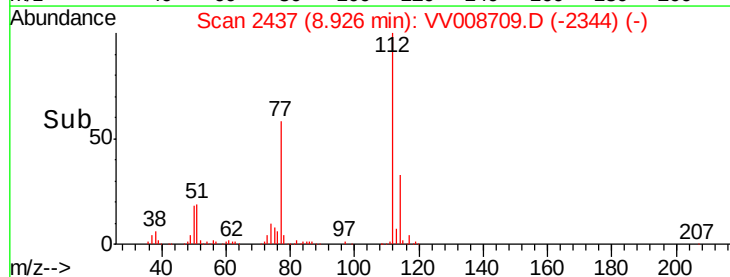
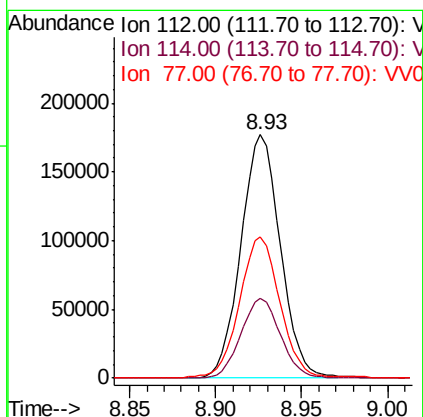
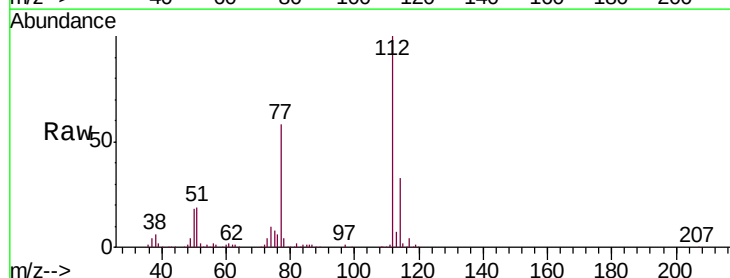
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

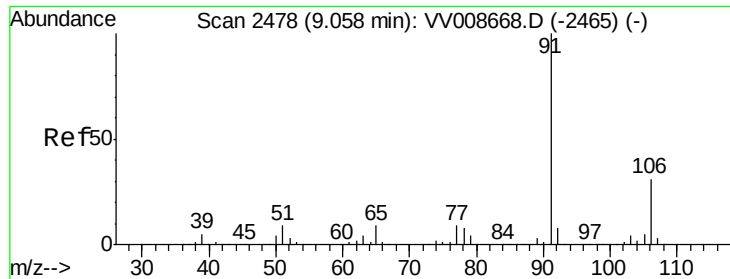
Tgt Ion:107 Resp: 107785
Ion Ratio Lower Upper
107 100
109 95.0 64.8 120.3
188 3.7 2.2 3.4#



#51
Chlorobenzene
Concen: 47.375 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

Tgt Ion:112 Resp: 281292
Ion Ratio Lower Upper
112 100
114 32.8 22.9 42.5
77 58.0 53.8 80.6





#52

Ethylbenzene

Concen: 47.238 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

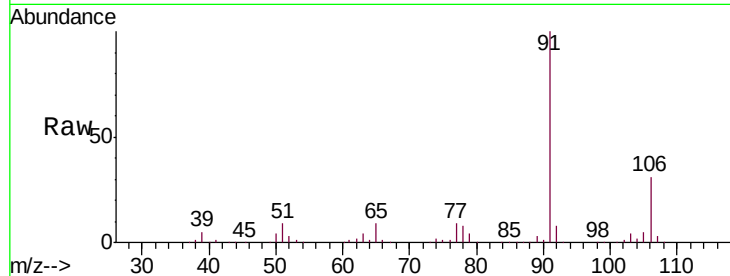
VSTD05078

Tgt Ion: 91 Resp: 483696

Ion Ratio Lower Upper

91 100

106 30.7 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VV008668.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV008668.D (-2465) (-)

9.06

300000

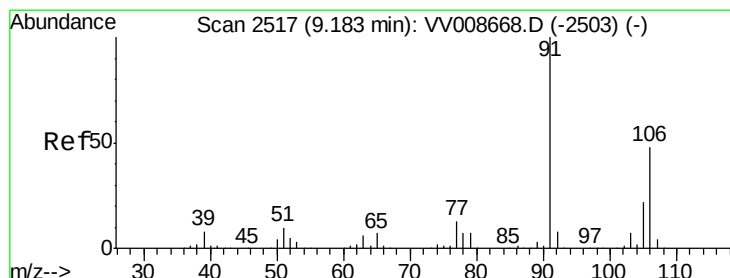
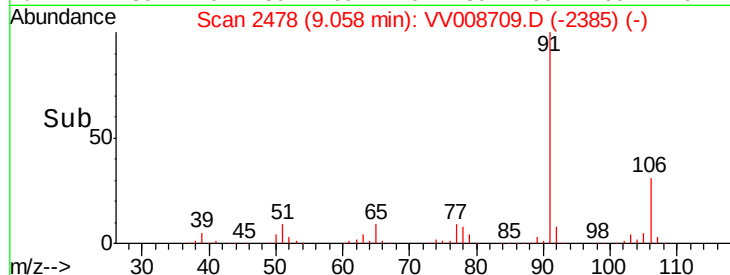
200000

100000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-Xylene

Concen: 48.433 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008709.D

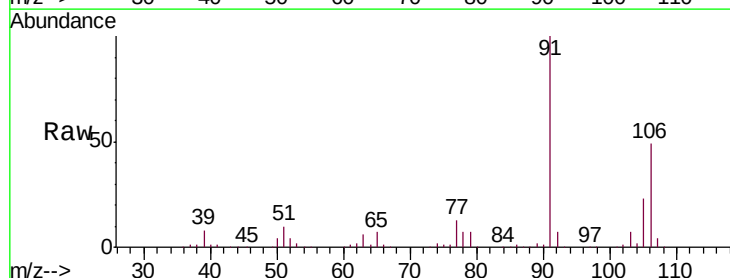
Acq: 26 Nov 2018 12:01

Tgt Ion: 106 Resp: 182238

Ion Ratio Lower Upper

106 100

91 206.1 154.7 287.3



Abundance Ion 106.00 (105.70 to 106.70): VV008668.D (-2503) (-)

Ion 91.00 (90.70 to 91.70): VV008668.D (-2503) (-)

9.18

250000

200000

150000

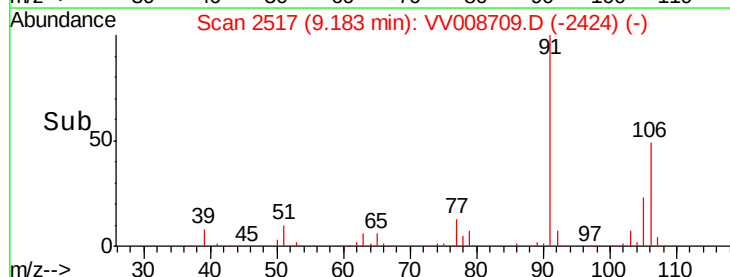
100000

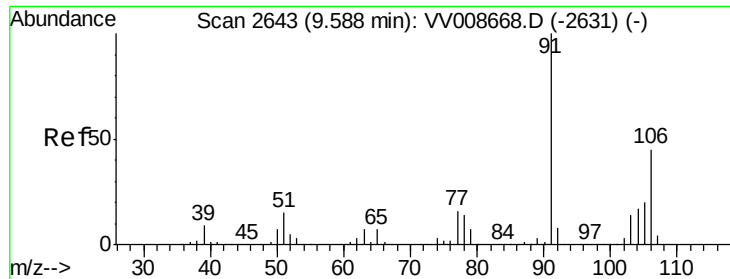
50000

0

9.10 9.15 9.20 9.25

Time-->

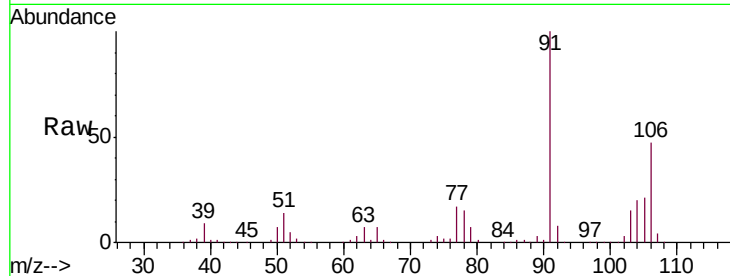




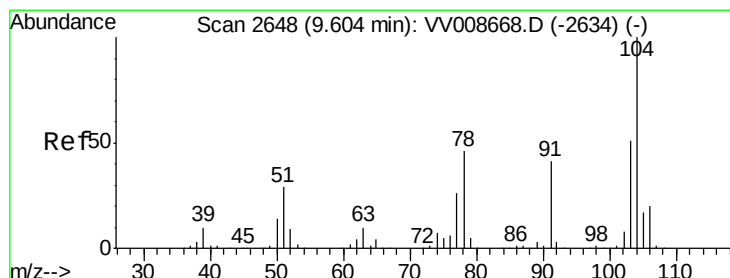
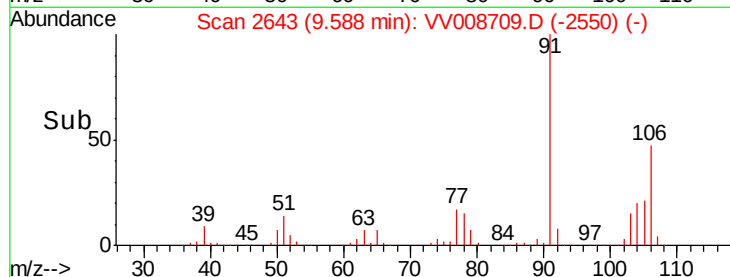
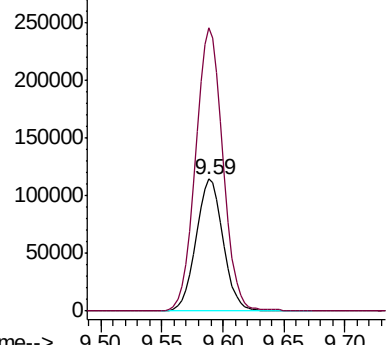
#54
o-xylene
Concen: 48.060 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Tgt Ion:106 Resp: 179816
Ion Ratio Lower Upper
106 100
91 214.5 146.7 272.5

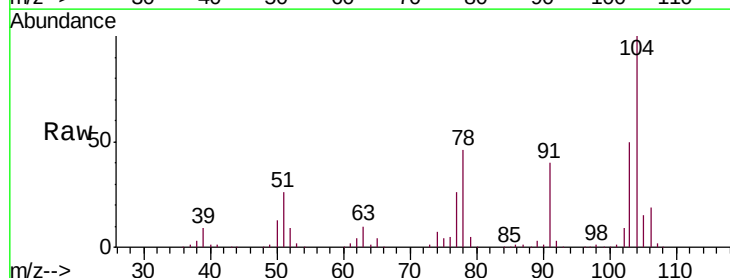


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

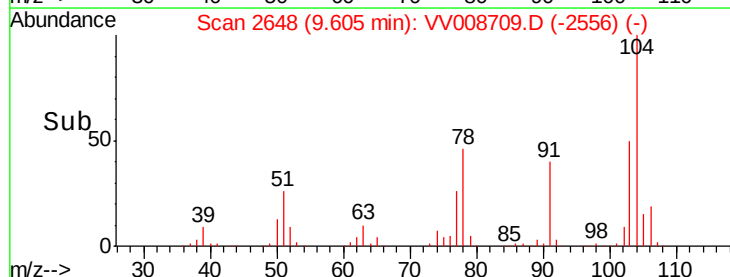
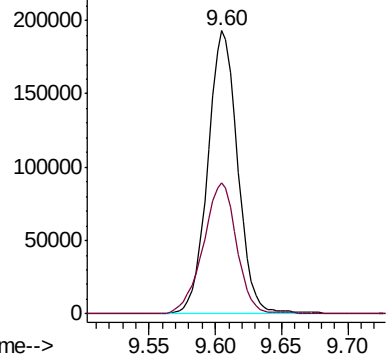


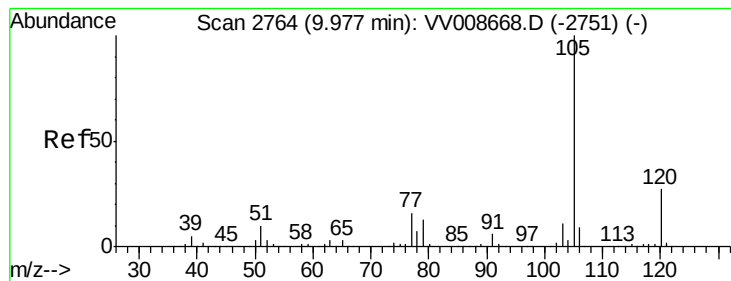
#55
Styrene
Concen: 48.424 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV008709.D
Acq: 26 Nov 2018 12:01

Tgt Ion:104 Resp: 302156
Ion Ratio Lower Upper
104 100
78 46.4 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 48.231 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

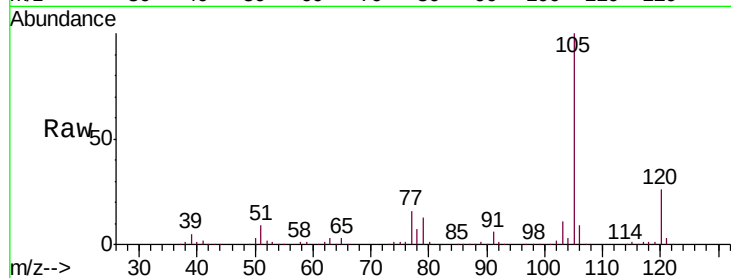
Tgt Ion: 105 Resp: 474502

Ion Ratio Lower Upper

105 100

120 26.6 20.5 30.7

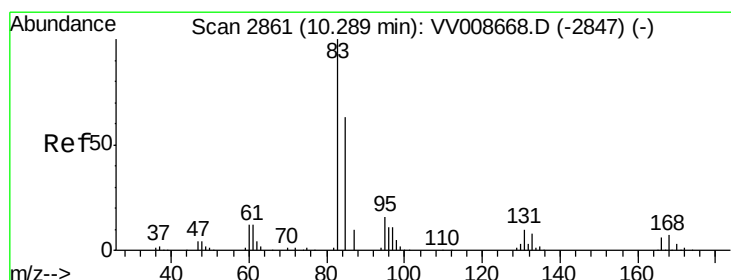
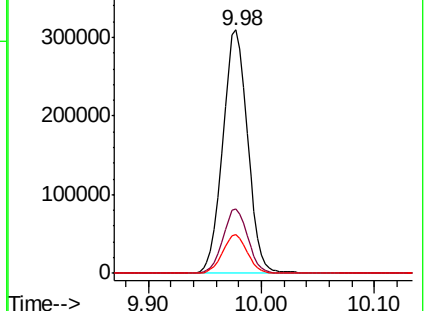
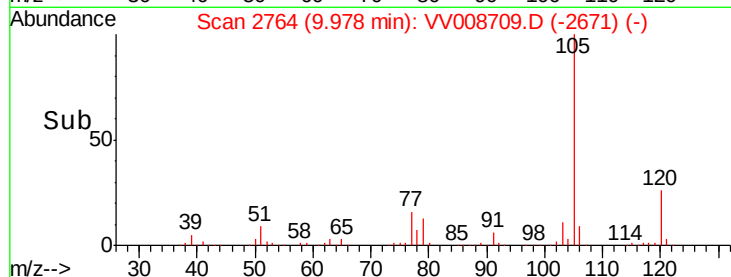
77 15.7 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 42.734 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

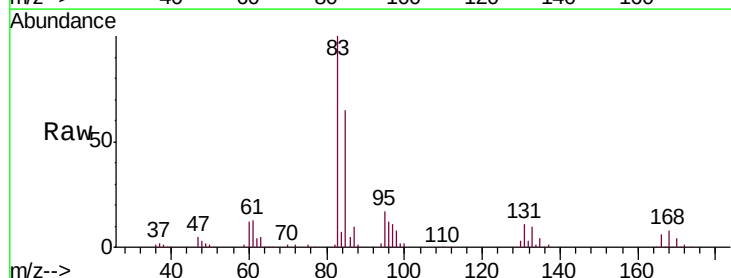
Tgt Ion: 83 Resp: 159909

Ion Ratio Lower Upper

83 100

85 65.0 44.8 83.2

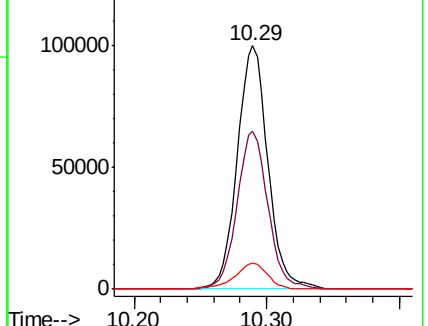
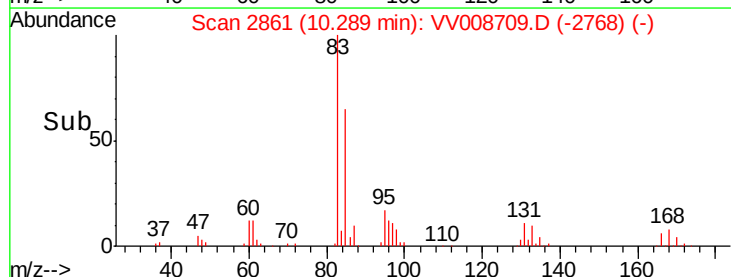
131 10.8 8.1 12.1

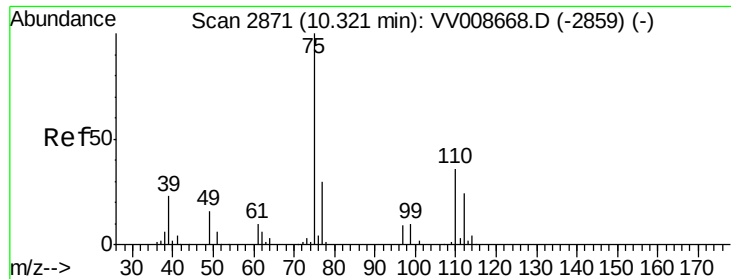


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 42.443 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

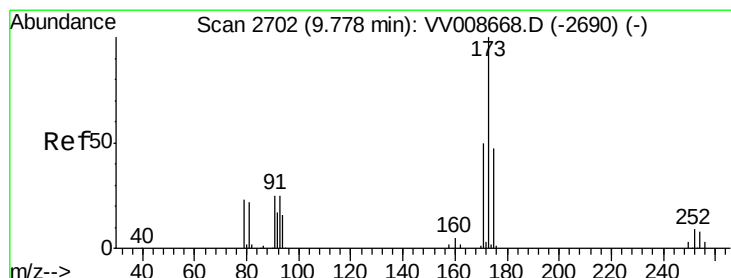
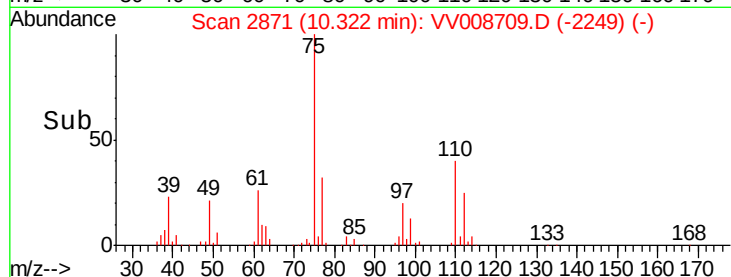
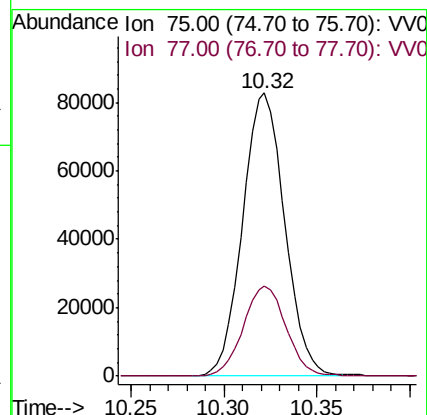
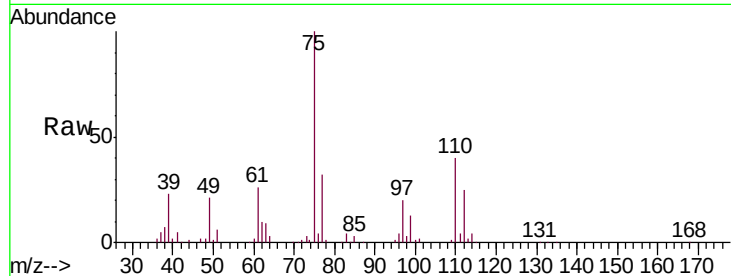
VSTD05078

Tgt Ion: 75 Resp: 130312

Ion Ratio Lower Upper

75 100

77 32.4 26.0 39.0



#61

Bromoform

Concen: 50.329 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

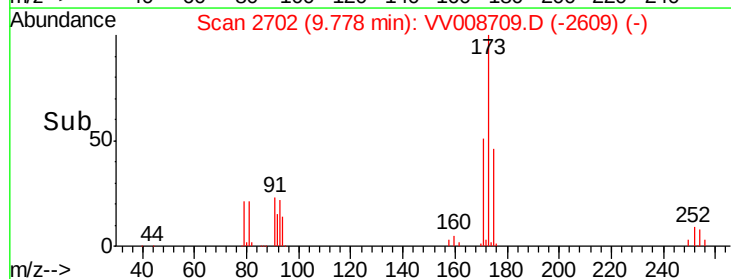
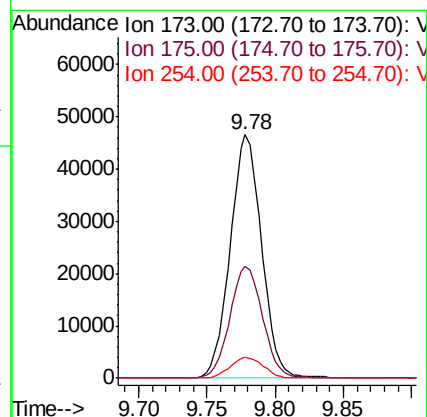
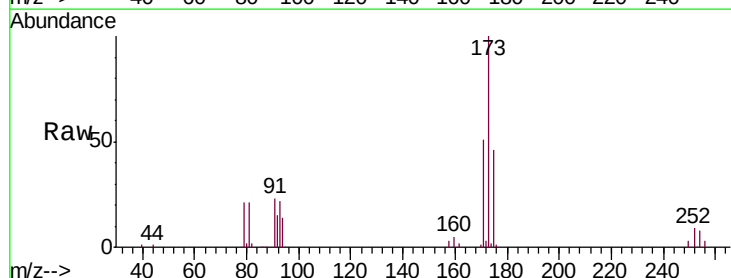
Tgt Ion: 173 Resp: 74605

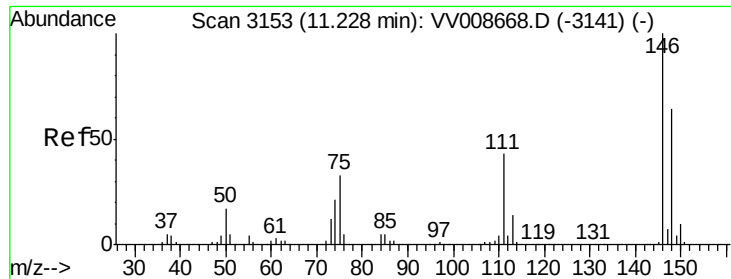
Ion Ratio Lower Upper

173 100

175 47.5 39.1 58.7

254 8.9 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 46.534 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

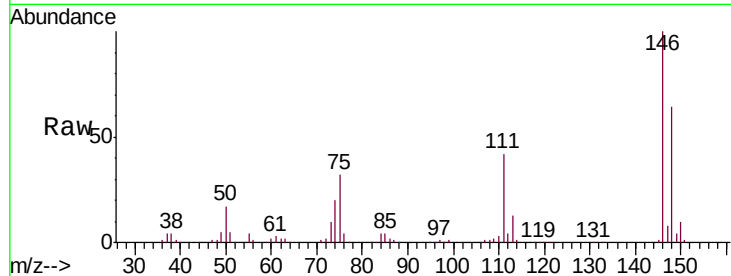
Tgt Ion:146 Resp: 210492

Ion Ratio Lower Upper

146 100

111 41.8 27.9 51.7

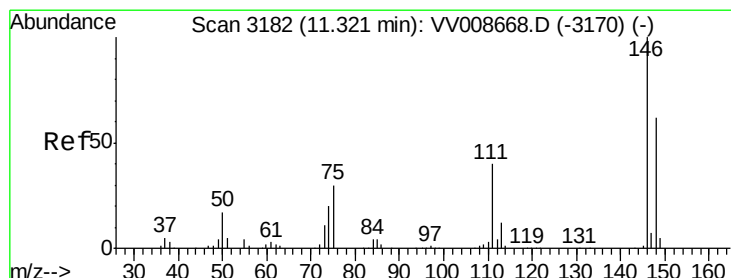
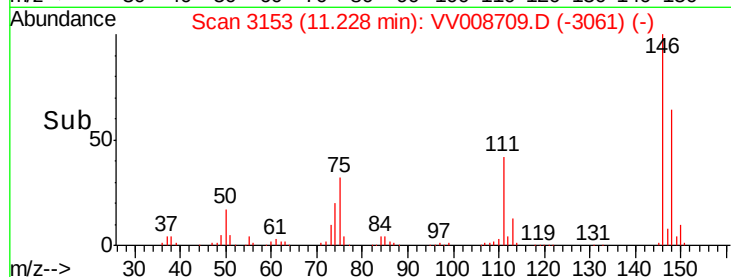
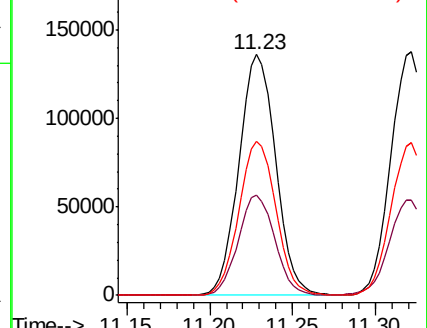
148 64.1 42.7 79.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 46.445 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

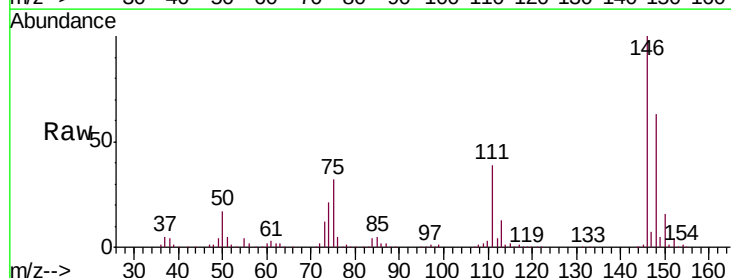
Tgt Ion:146 Resp: 214114

Ion Ratio Lower Upper

146 100

111 39.0 27.7 51.5

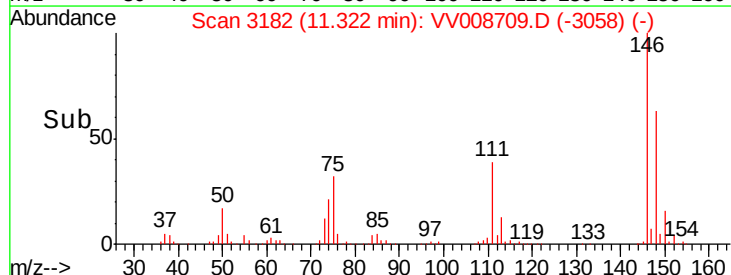
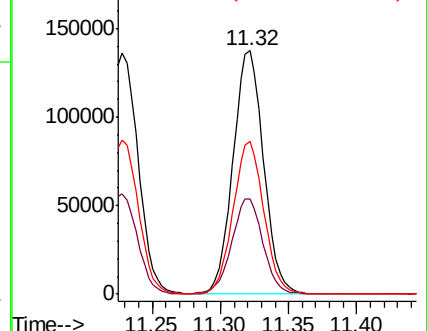
148 62.6 46.4 86.2

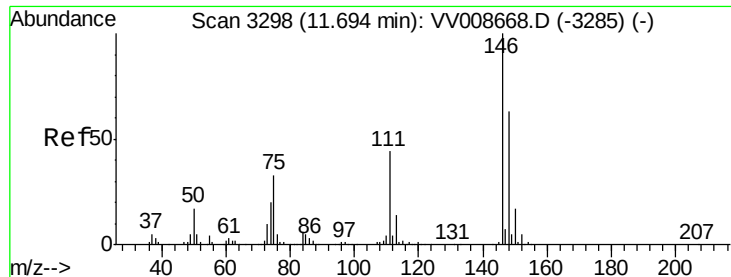


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

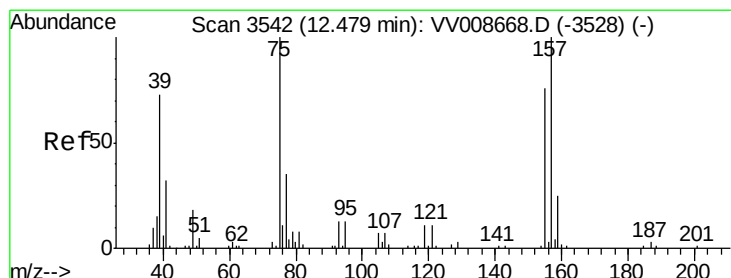
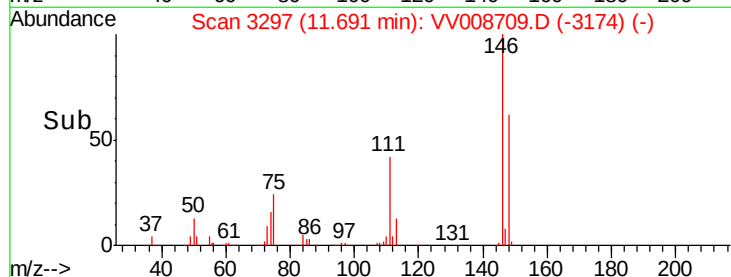
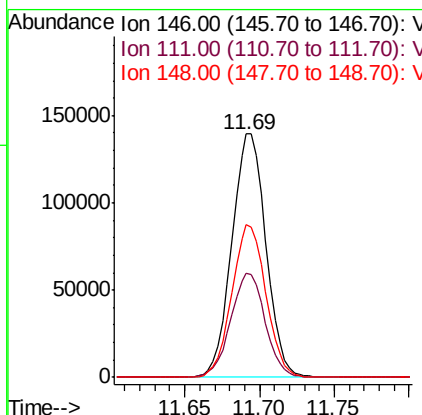
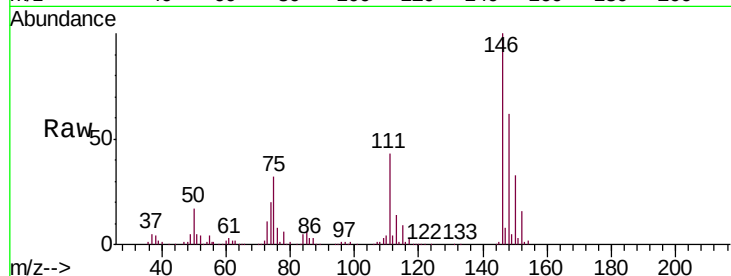




#65
 1,2-Dichlorobenzene
 Concen: 47.328 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

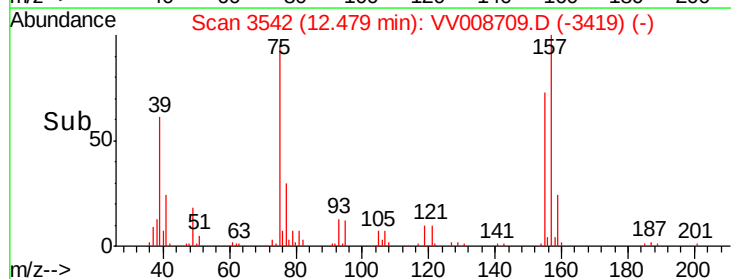
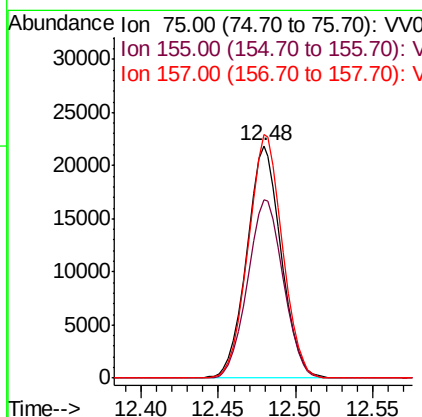
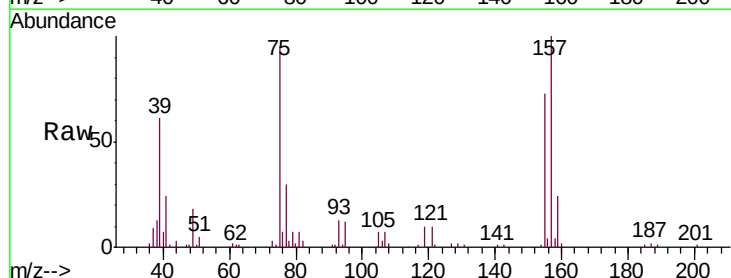
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

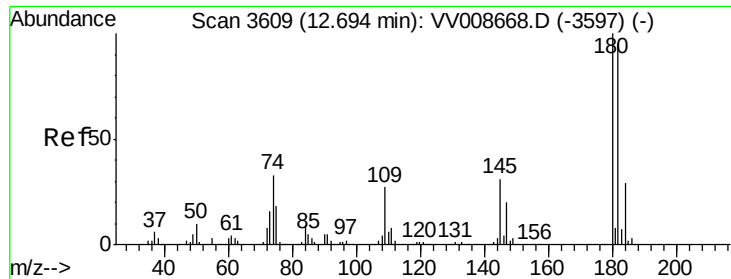
Tgt Ion: 146 Resp: 220970
 Ion Ratio Lower Upper
 146 100
 111 42.7 36.5 54.7
 148 62.5 48.7 73.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 44.743 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Tgt Ion: 75 Resp: 33827
 Ion Ratio Lower Upper
 75 100
 155 76.9 64.4 96.6
 157 104.8 83.7 125.5

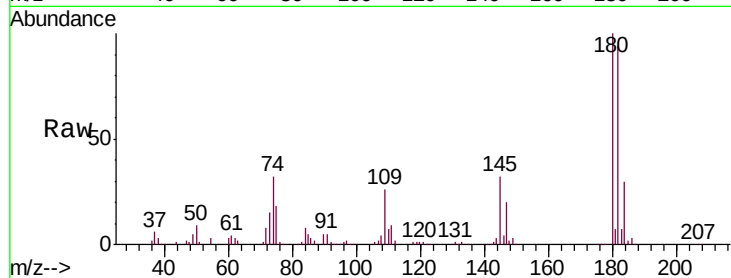




#67
 1,3,5-Trichlorobenzene
 Concen: 49.722 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	73.2	109.8
184	29.7	23.6	35.4
145	31.0	26.6	39.8



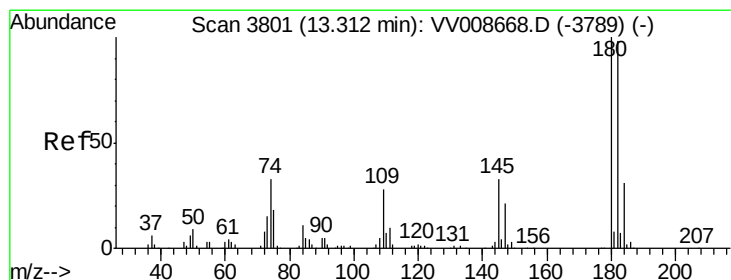
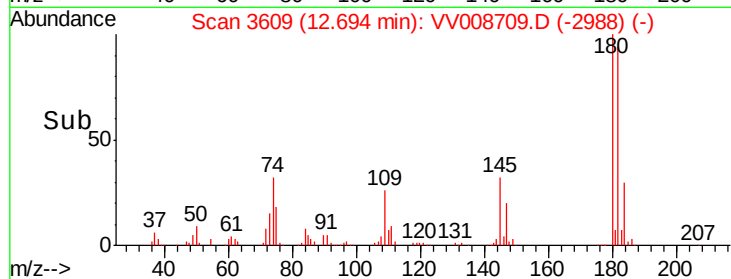
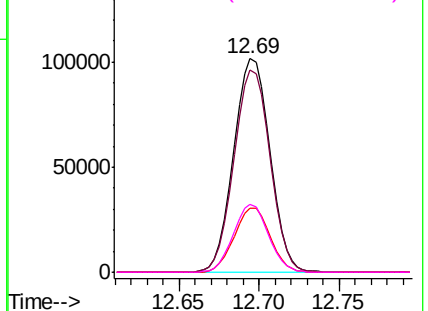
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

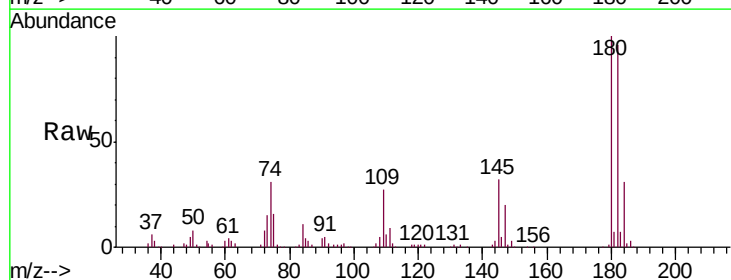
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.630 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV008709.D
 Acq: 26 Nov 2018 12:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	75.7	113.5
145	31.9	28.0	42.0

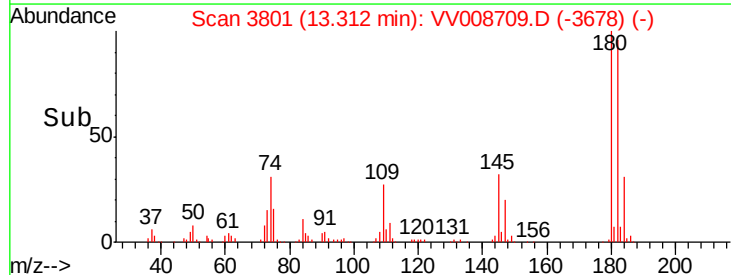
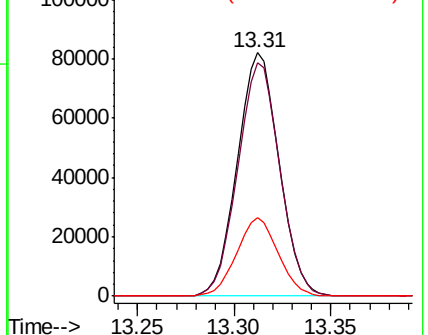


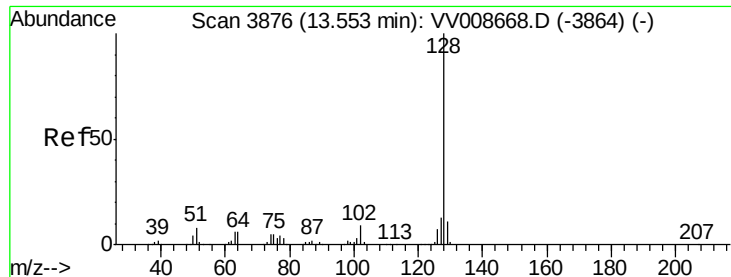
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 47.888 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

Instrument :

MSVOA_V

ClientSampled :

VSTD05078

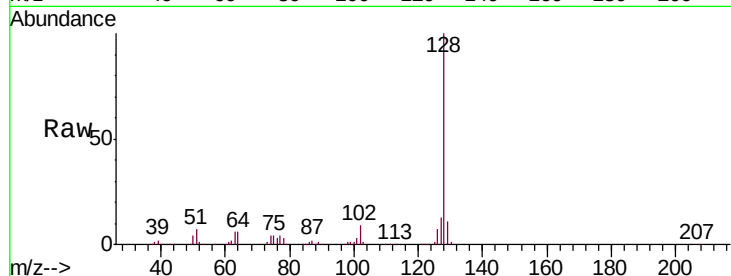
Tgt Ion:128 Resp: 325860

Ion Ratio Lower Upper

128 100

127 12.7 9.4 14.0

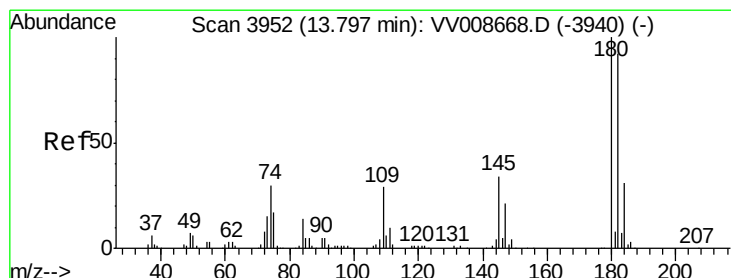
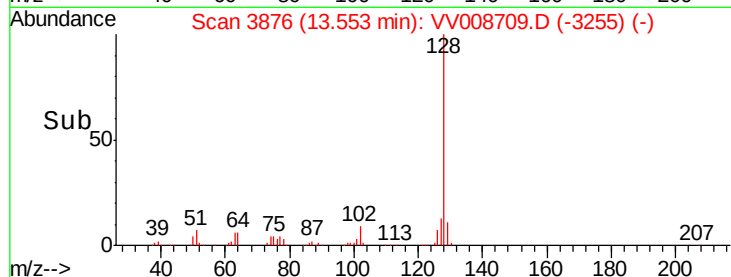
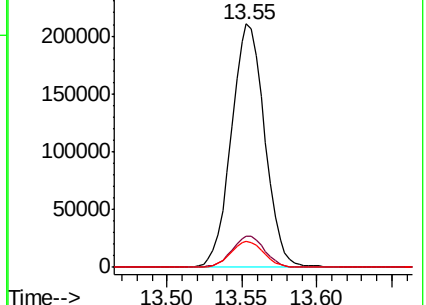
129 10.6 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.821 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV008709.D

Acq: 26 Nov 2018 12:01

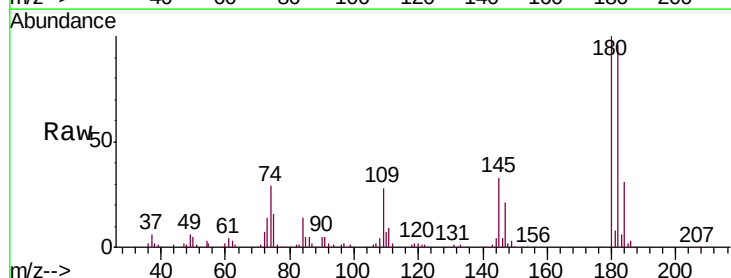
Tgt Ion:180 Resp: 127346

Ion Ratio Lower Upper

180 100

182 95.0 77.5 116.3

145 34.2 28.9 43.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

