

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100918\
 Data File : VV008212.D
 Acq On : 09 Oct 2018 20:59
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Quant Time: Oct 10 03:14:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR100518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 10 03:08:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	100769	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	98747	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	52339	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	24762	4.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.00%
7) Chloroethane-d5	1.59	69	21246	4.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.40%
11) 1,1-Dichloroethene-d2	2.14	63	51245	4.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.60%
20) 2-Butanone-d5	3.97	46	83365	56.02	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.04%
24) Chloroform-d	4.41	84	60620	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.09	65	29809	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.10	84	110299	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.40%
36) 1,2-Dichloropropane-d6	6.12	67	35853	4.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.60%
41) Toluene-d8	7.36	98	108860	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.80%
43) trans-1,3-Dichloropropene-	7.67	79	12654	4.54	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.80%
46) 2-Hexanone-d5	8.14	63	59818	53.87	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.74%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	28620	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	11.68	152	44944	4.52	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	36092	5.283	ug/L	97
3) Chloromethane	1.25	50	31012	5.386	ug/L	99
5) Vinyl chloride	1.33	62	33895	5.287	ug/L	99
6) Bromomethane	1.54	94	18954	6.241	ug/L	98
8) Chloroethane	1.60	64	20036	4.677	ug/L	98
9) Trichlorofluoromethane	1.77	101	55548	5.058	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	33002	5.053	ug/L	98
12) 1,1-Dichloroethene	2.15	96	27718	5.077	ug/L	88
13) Acetone	2.21	43	51944	51.518	ug/L	100
14) Carbon disulfide	2.32	76	63800	4.592	ug/L	99
15) Methyl Acetate	2.47	43	13584	5.675	ug/L	96
16) Methylene chloride	2.54	84	32162	4.856	ug/L	99
17) Methyl tert-butyl Ether	2.81	73	75340	5.506	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	30957	5.195	ug/L	99
19) 1,1-Dichloroethane	3.23	63	60642	5.345	ug/L	98
21) 2-Butanone	4.05	43	93652	57.577	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	36297	5.401	ug/L	99

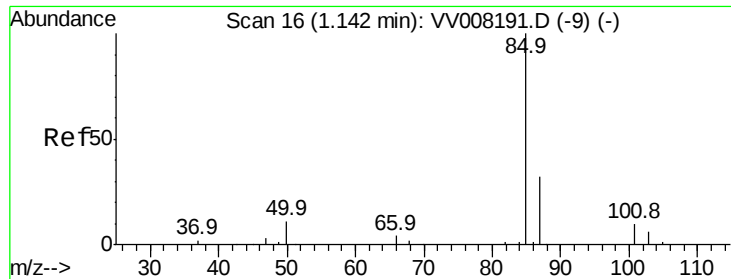
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100918\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	16512	5.411	ug/L	91
25) Chloroform	4.43	83	66775	5.469	ug/L	99
27) 1,2-Dichloroethane	5.19	62	38856	5.417	ug/L	96
29) 1,1,1-Trichloroethane	4.66	97	57306	5.225	ug/L	99
30) Cyclohexane	4.73	56	43972	4.828	ug/L	100
31) Carbon tetrachloride	4.88	117	50524	5.128	ug/L	100
33) Benzene	5.15	78	136080	5.461	ug/L	100
34) Trichloroethene	5.96	95	36514	5.022	ug/L	96
35) Methylcyclohexane	6.18	83	48784	4.803	ug/L	99
37) 1,2-Dichloropropane	6.23	63	36876	5.485	ug/L	100
38) Bromodichloromethane	6.56	83	44510	5.412	ug/L	99
39) cis-1,3-Dichloropropene	7.08	75	44796	5.196	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	228112	59.869	ug/L	100
42) Toluene	7.44	91	146971	5.552	ug/L	98
44) trans-1,3-Dichloropropene	7.70	75	38628	5.510	ug/L	95
45) 1,1,2-Trichloroethane	7.89	97	26687	5.659	ug/L	96
47) Tetrachloroethene	8.02	164	33597	5.173	ug/L	95
48) 2-Hexanone	8.19	43	166826	64.494	ug/L	97
49) Dibromochloromethane	8.30	129	32110	5.458	ug/L	99
50) 1,2-Dibromoethane	8.40	107	24257	5.666	ug/L	97
51) Chlorobenzene	8.93	112	101465	5.481	ug/L	99
52) Ethylbenzene	9.06	91	155236	5.373	ug/L	100
53) m,p-xylene	9.19	106	60256	5.502	ug/L	96
54) o-xylene	9.59	106	57792	5.527	ug/L	98
55) Styrene	9.61	104	103017	5.785	ug/L	100
56) Isopropylbenzene	9.98	105	156782	5.451	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	29746	5.441	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	23107	5.887	ug/L	96
61) Bromoform	9.78	173	17980	5.579	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	82631	5.303	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	84958	5.349	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	81704	5.427	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	4311	5.483	ug/L	97
67) 1,3,5-Trichlorobenzene	12.70	180	68777	5.180	ug/L	99
68) 1,2,4-trichlorobenzene	13.32	180	52825	5.333	ug/L	100
69) Naphthalene	13.56	128	65206	5.156	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	51597	5.478	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.283 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

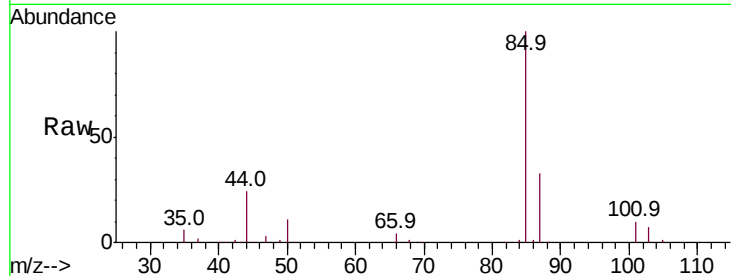
VSTD00562

Tot Ion: 85 Resp: 36092

Ion Ratio Lower Upper

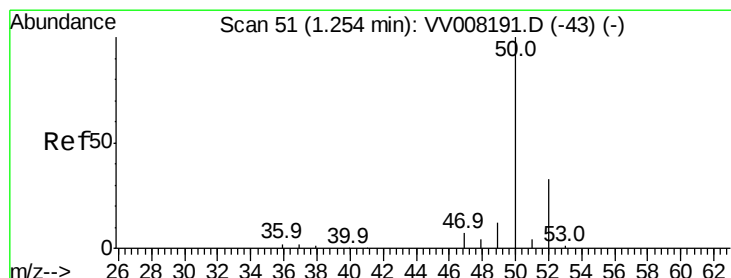
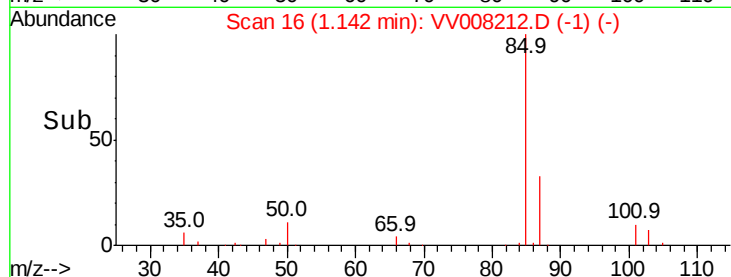
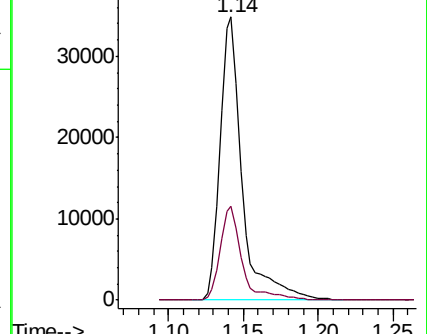
85 100

87 32.7 24.6 37.0



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.386 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008212.D

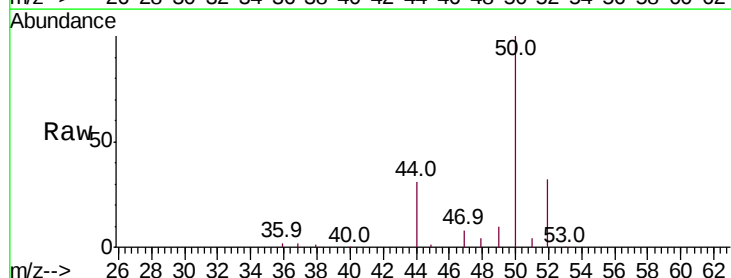
Acq: 09 Oct 2018 20:59

Tgt Ion: 50 Resp: 31012

Ion Ratio Lower Upper

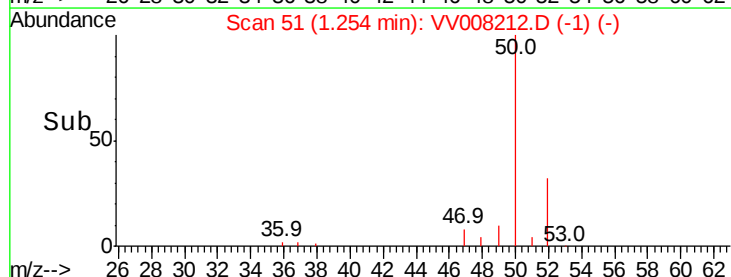
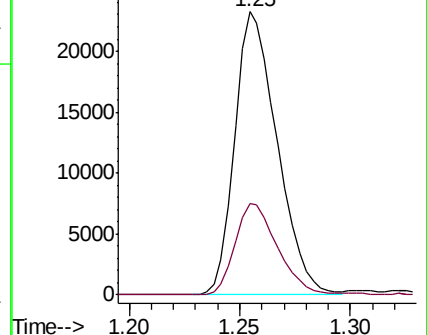
50 100

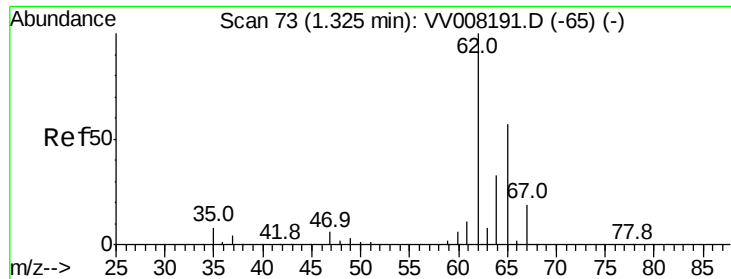
52 32.2 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 5.287 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

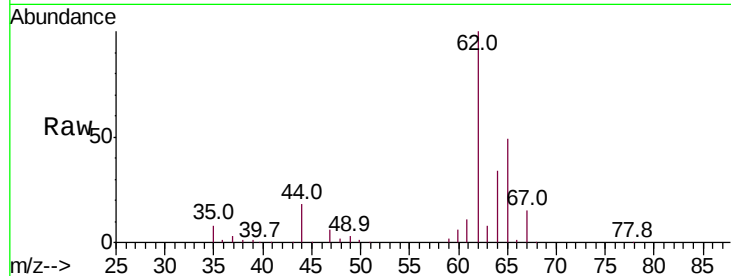
VSTD00562

Tot Ion: 62 Resp: 33895

Ion Ratio Lower Upper

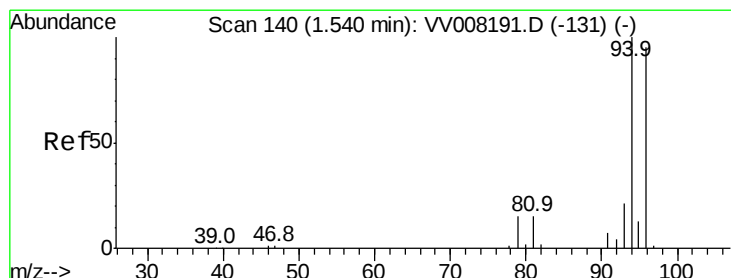
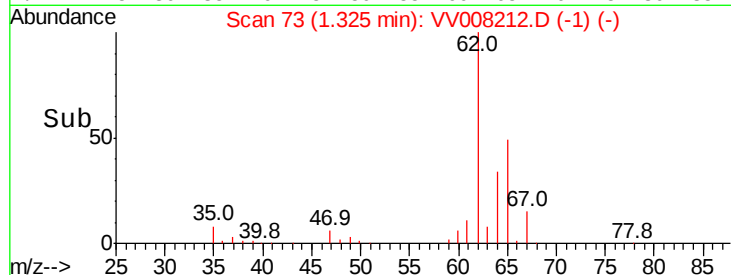
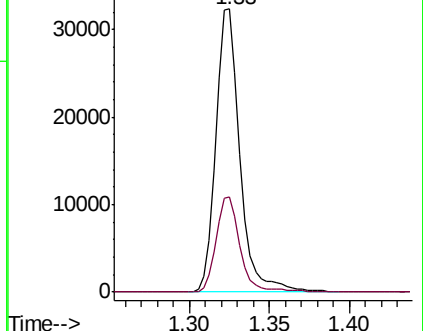
62 100

64 33.8 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV008212.D (-65) (-)

Ion 64.10 (63.80 to 64.80): VV008212.D (-65) (-)



#6

Bromomethane

Concen: 6.241 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV008212.D

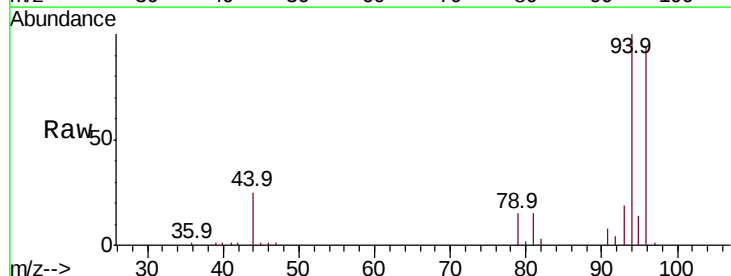
Acq: 09 Oct 2018 20:59

Tgt Ion: 94 Resp: 18954

Ion Ratio Lower Upper

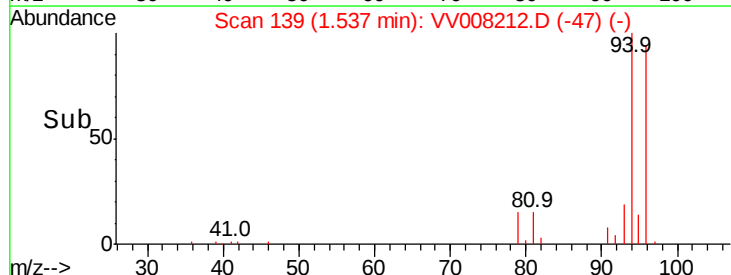
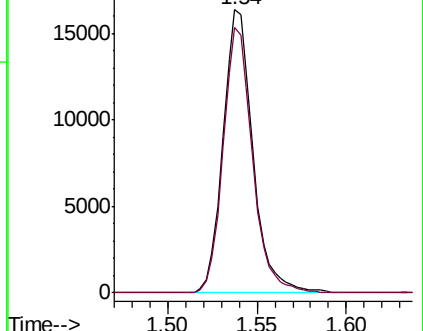
94 100

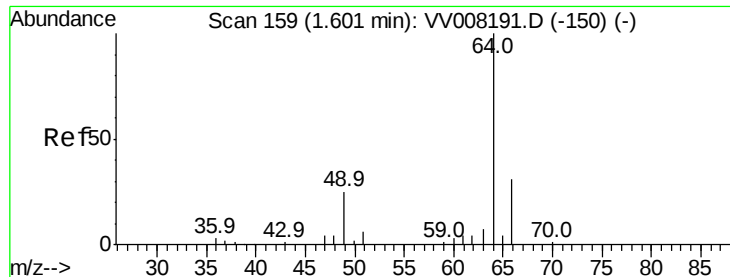
96 93.9 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VV008212.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV008212.D (-131) (-)





#8

Chloroethane

Concen: 4.677 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

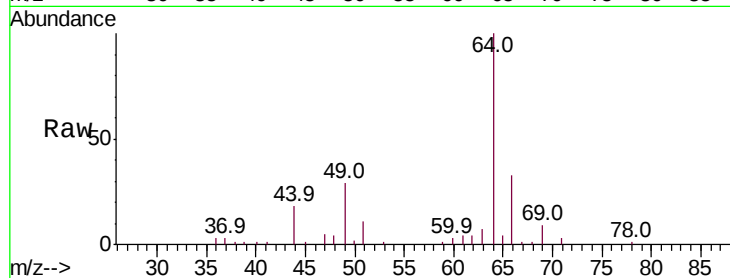
VSTD00562

Tot Ion: 64 Resp: 20036

Ion Ratio Lower Upper

64 100

66 33.4 24.1 44.8



Abundance Ion 64.10 (63.80 to 64.80): VV008212.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV008212.D (-150) (-)

1.60

20000

15000

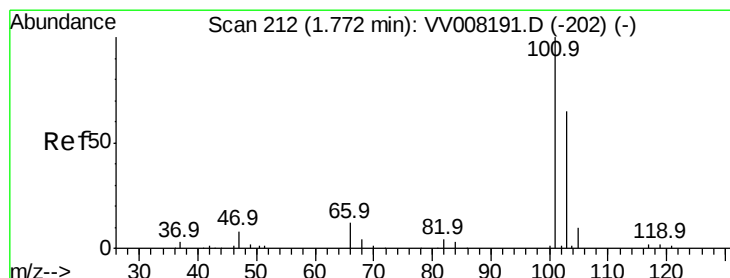
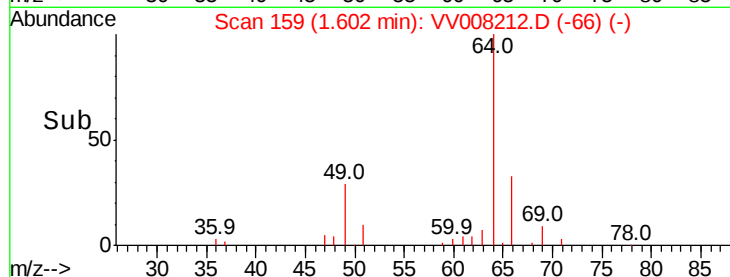
10000

5000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 5.058 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV008212.D

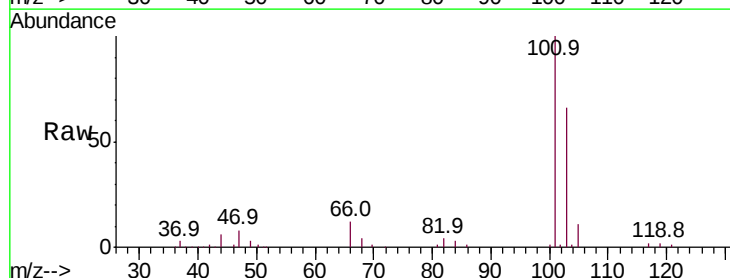
Acq: 09 Oct 2018 20:59

Tgt Ion: 101 Resp: 55548

Ion Ratio Lower Upper

101 100

103 66.3 53.1 79.7



Abundance Ion 101.00 (100.70 to 101.70): VV008212.D (-202) (-)

Ion 103.00 (102.70 to 103.70): VV008212.D (-202) (-)

1.77

50000

40000

30000

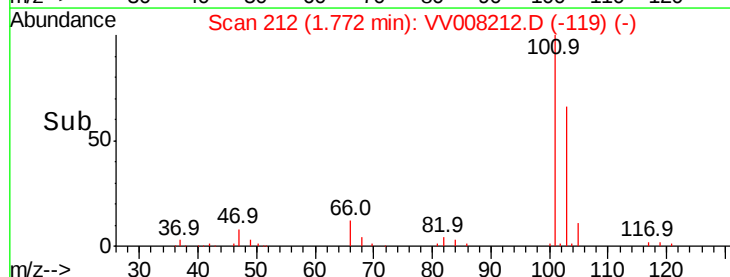
20000

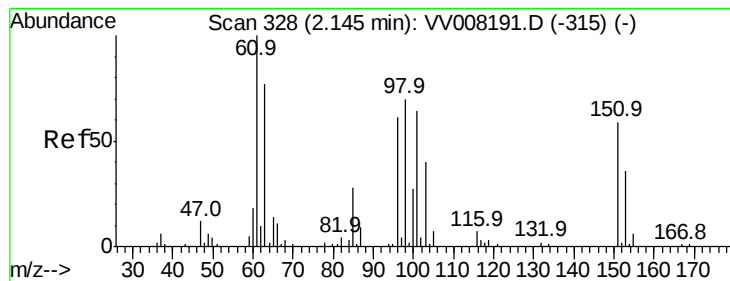
10000

0

Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 5.053 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

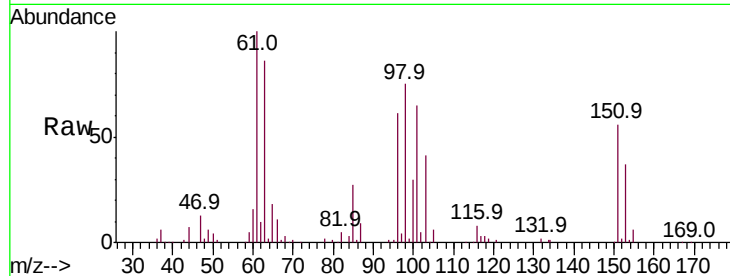
Tot Ion:101 Resp: 33002

Ion Ratio Lower Upper

101 100

85 42.7 35.4 53.0

151 90.1 70.7 106.1



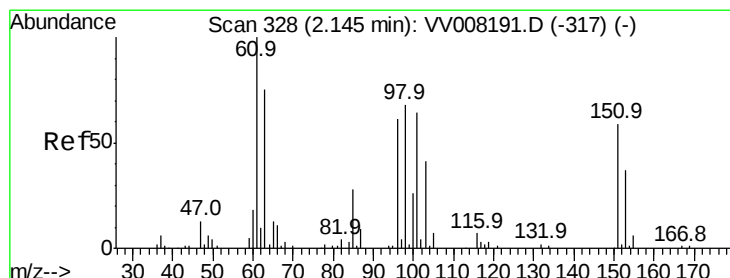
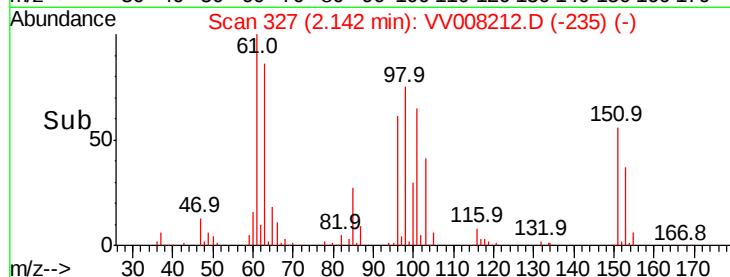
Abundance Ion 101.00 (100.70 to 101.70): VV008191.D (-315) (-)

Ion 85.00 (84.70 to 85.70): VV008191.D (-315) (-)

Ion 151.00 (150.70 to 151.70): VV008191.D (-315) (-)

2.14

Time-->



#12

1,1-Dichloroethene

Concen: 5.077 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

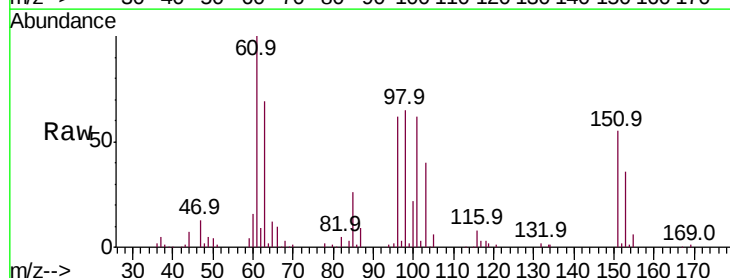
Tgt Ion: 96 Resp: 27718

Ion Ratio Lower Upper

96 100

61 161.2 114.7 213.1

63 110.9 96.9 179.9



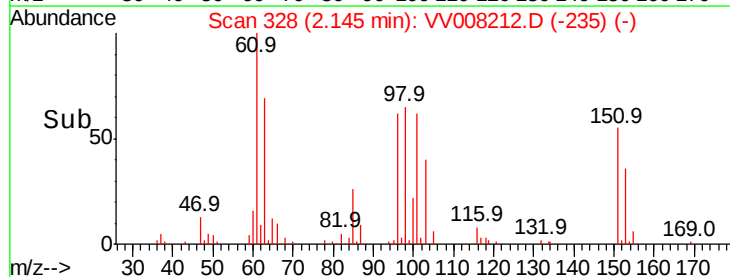
Abundance Ion 96.00 (95.70 to 96.70): VV008191.D (-317) (-)

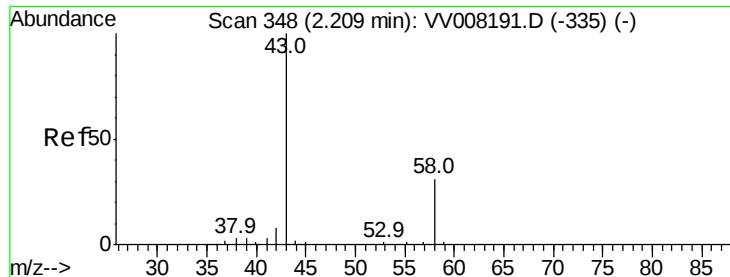
Ion 61.05 (60.75 to 61.75): VV008191.D (-317) (-)

Ion 63.00 (62.70 to 63.70): VV008191.D (-317) (-)

2.15

Time-->





#13

Acetone

Concen: 51.518 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

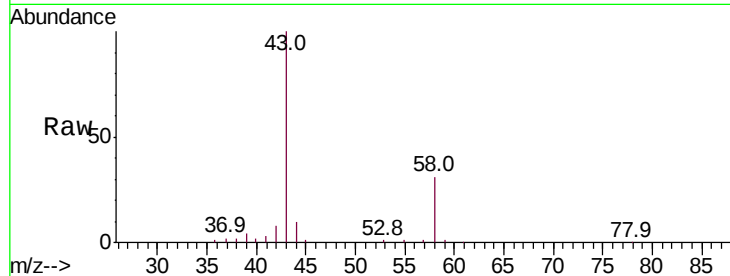
VSTD00562

Tot Ion: 43 Resp: 51944

Ion Ratio Lower Upper

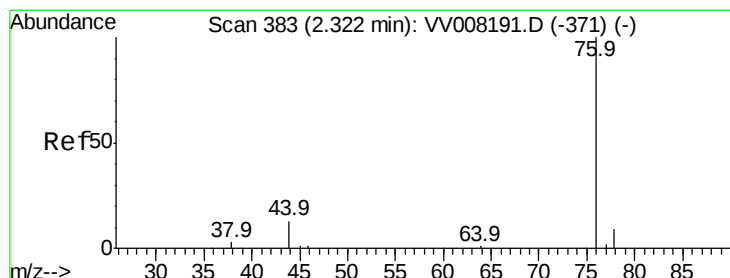
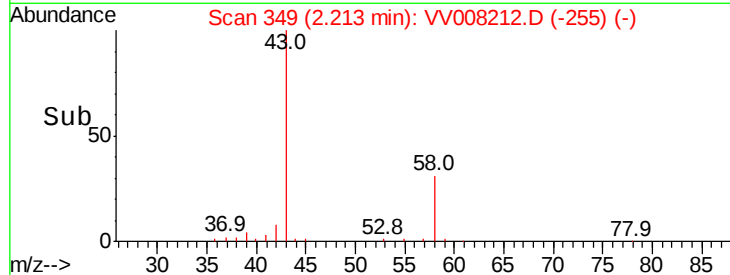
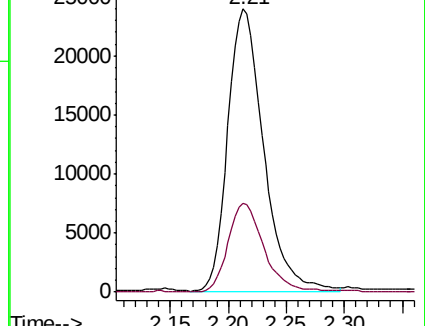
43 100

58 31.2 0.0 62.2



Abundance Ion 43.05 (42.75 to 43.75): VV008191.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV008191.D (-335) (-)



#14

Carbon disulfide

Concen: 4.592 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV008212.D

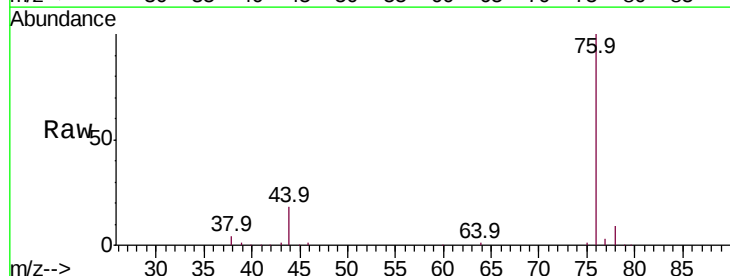
Acq: 09 Oct 2018 20:59

Tgt Ion: 76 Resp: 63800

Ion Ratio Lower Upper

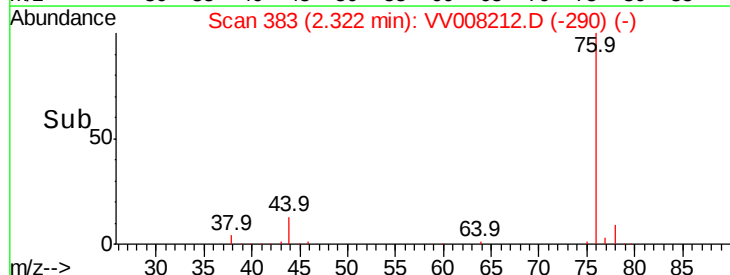
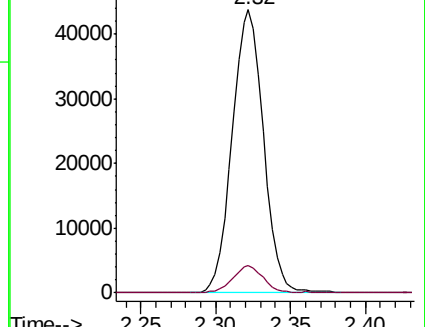
76 100

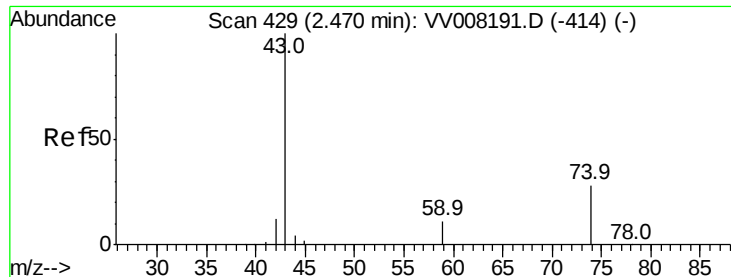
78 9.5 8.0 12.0



Abundance Ion 76.05 (75.75 to 76.75): VV008191.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV008191.D (-371) (-)





#15

Methyl Acetate

Concen: 5.675 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

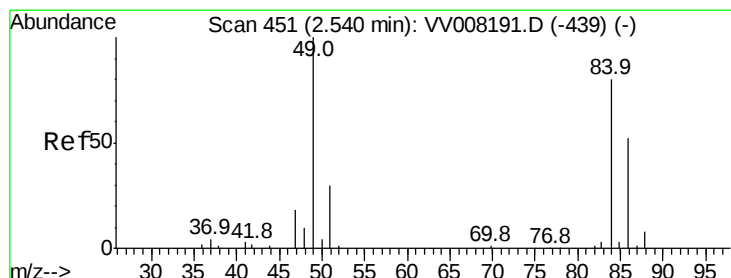
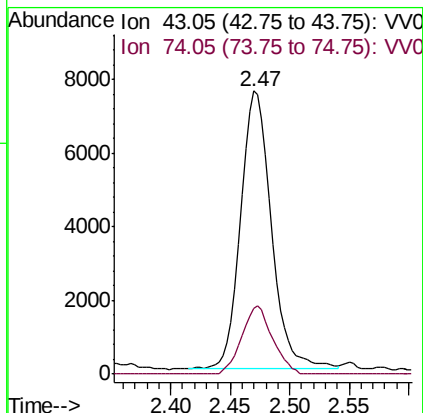
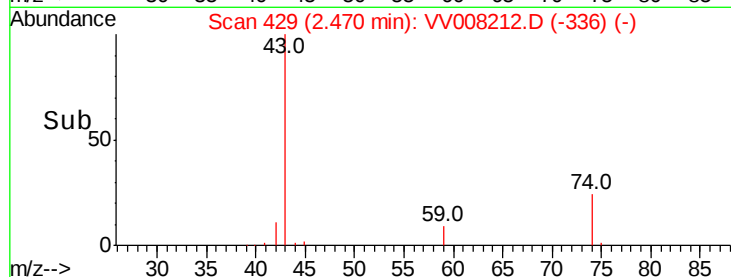
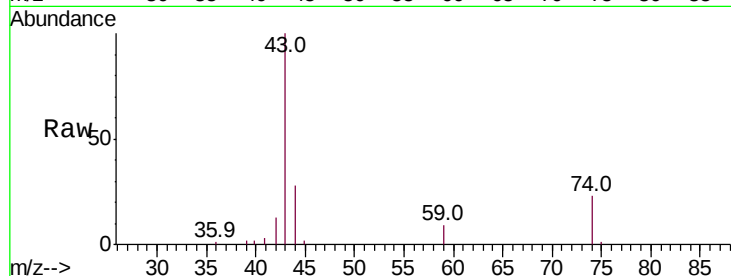
VSTD00562

Tot Ion: 43 Resp: 13584

Ion Ratio Lower Upper

43 100

74 24.4 18.1 27.1



#16

Methylene chloride

Concen: 4.856 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

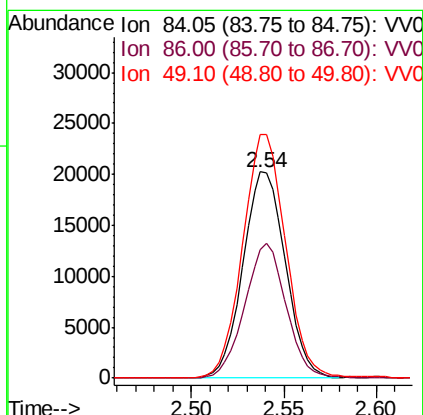
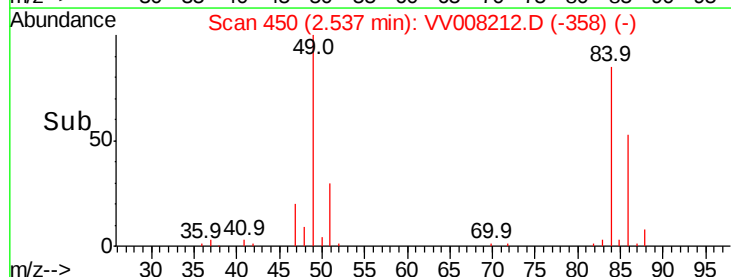
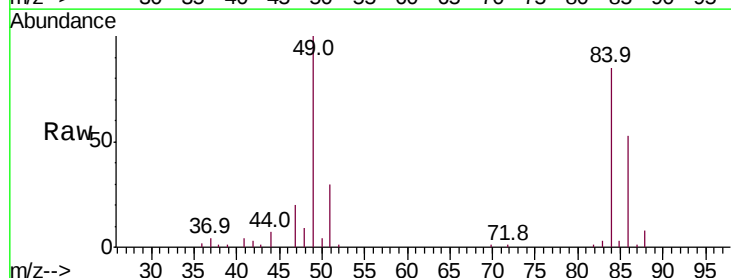
Tgt Ion: 84 Resp: 32162

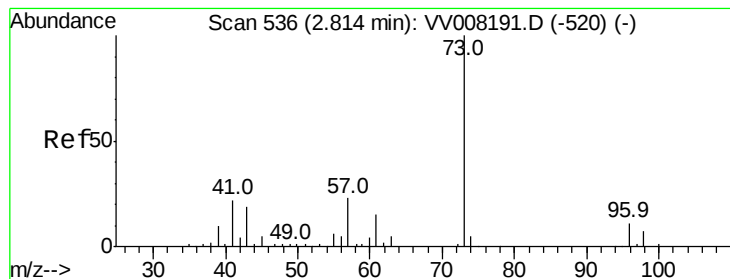
Ion Ratio Lower Upper

84 100

86 62.5 45.3 84.1

49 118.0 83.0 154.1



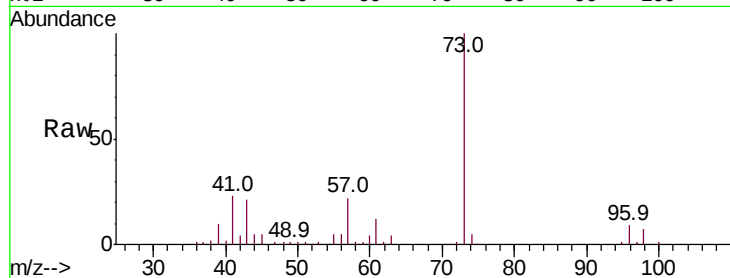


#17

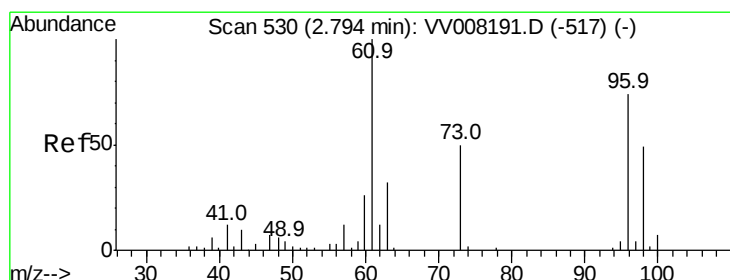
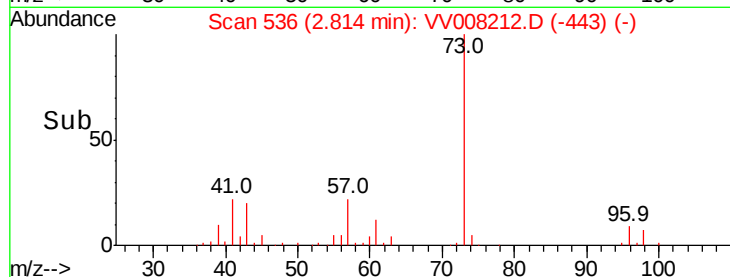
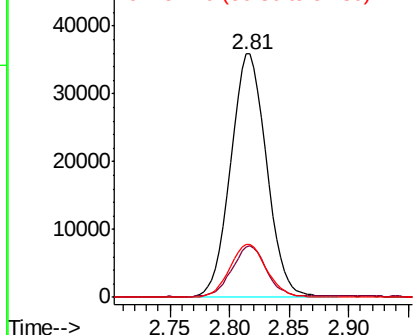
Methvl tert-butvl Ether
 Concen: 5.506 ug/L
 RT: 2.81 min Scan# 536
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tot Ion: 73 Resp: 75340
 Ion Ratio Lower Upper
 73 100
 43 19.7 17.0 25.4
 57 22.2 17.3 25.9



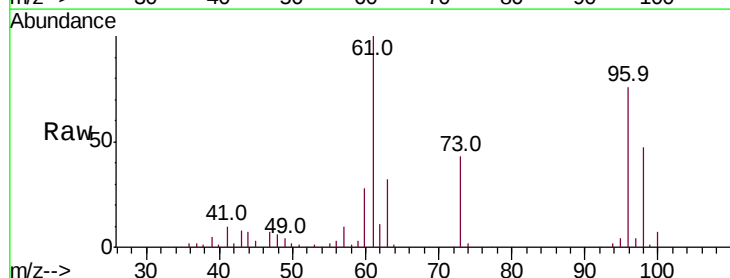
Abundance Ion 73.10 (72.80 to 73.80): VV0
 Ion 43.05 (42.75 to 43.75): VV0
 Ion 57.10 (56.80 to 57.80): VV0



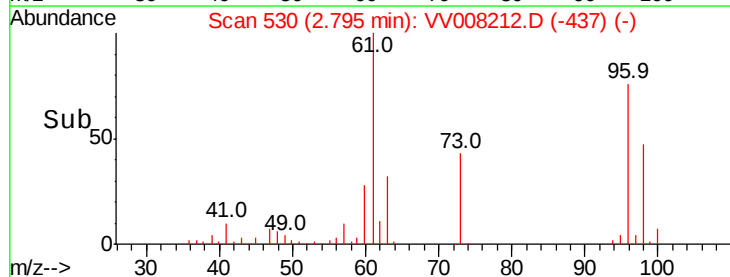
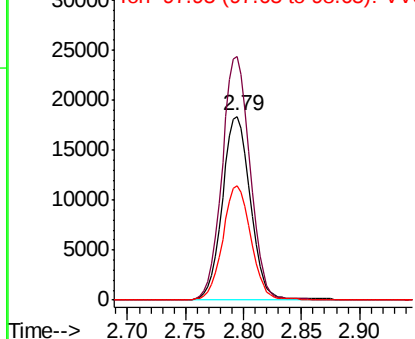
#18

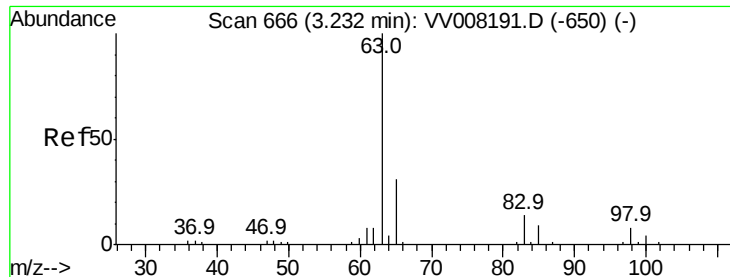
trans-1,2-Dichloroethene
 Concen: 5.195 ug/L
 RT: 2.79 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Tgt Ion: 96 Resp: 30957
 Ion Ratio Lower Upper
 96 100
 61 132.3 91.6 170.2
 98 62.1 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 97.95 (97.65 to 98.65): VV0

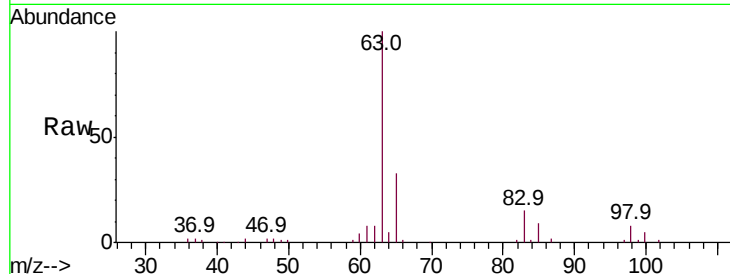




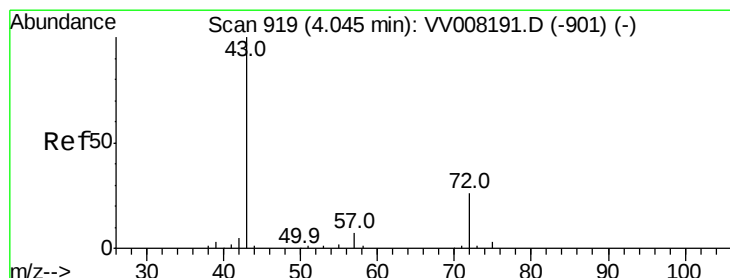
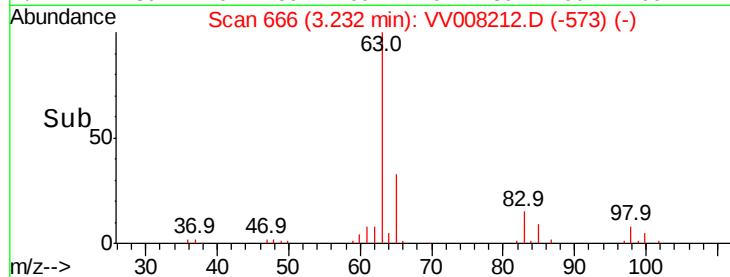
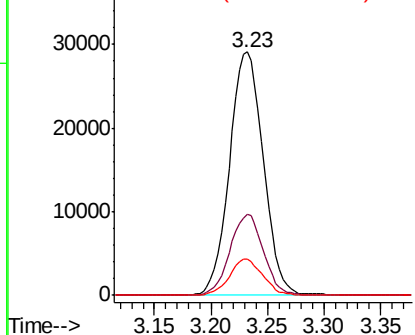
#19
 1,1-Dichloroethane
 Concen: 5.345 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tot Ion: 63 Resp: 60642
 Ion Ratio Lower Upper
 63 100
 65 33.3 22.4 41.6
 83 14.7 9.6 17.8

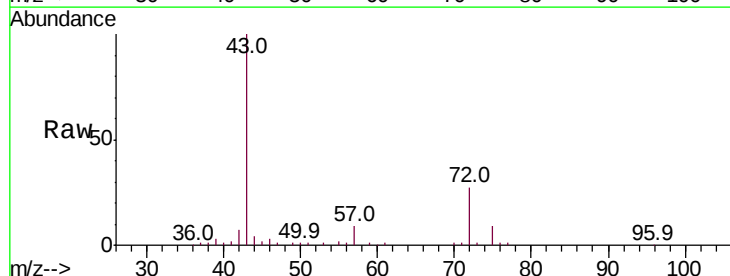


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

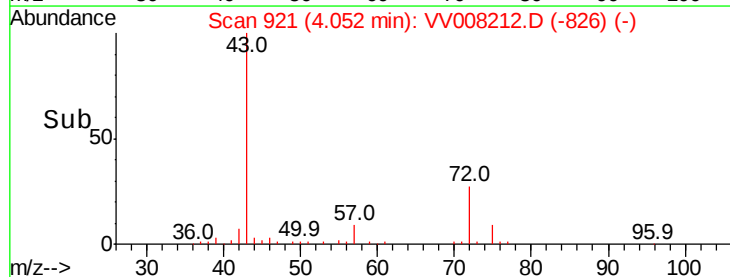
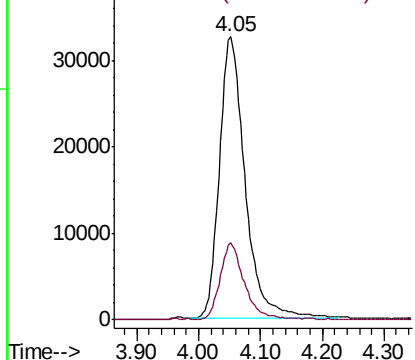


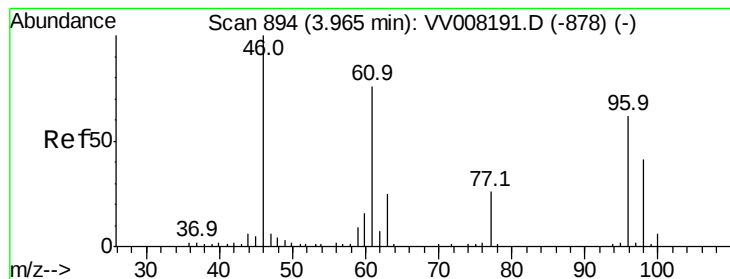
#21
 2-Butanone
 Concen: 57.577 ug/L
 RT: 4.05 min Scan# 921
 Delta R.T. 0.01 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Tgt Ion: 43 Resp: 93652
 Ion Ratio Lower Upper
 43 100
 72 26.1 12.9 38.6



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 72.10 (71.80 to 72.80): VV0





#22

cis-1,2-Dichloroethene

Concen: 5.401 ug/L

RT: 3.96 min Scan# 894

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :
MSVOA_V
ClientSampled :
VSTD00562

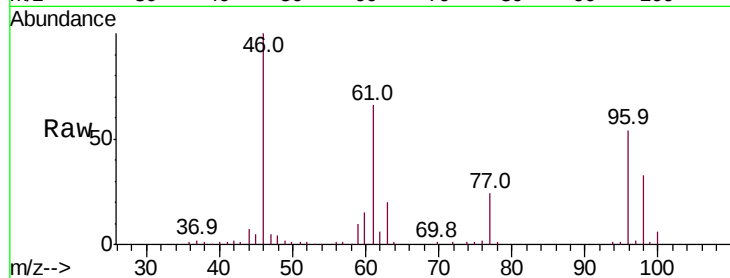
Tot Ion: 96 Resp: 36297

Ion Ratio Lower Upper

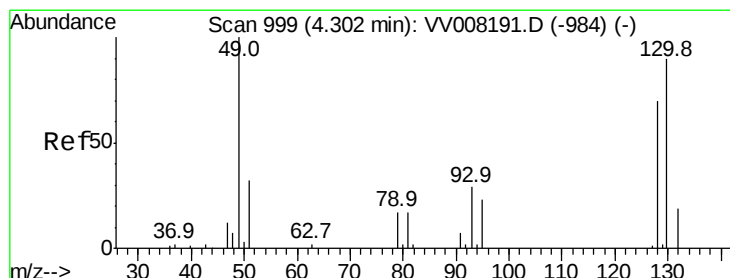
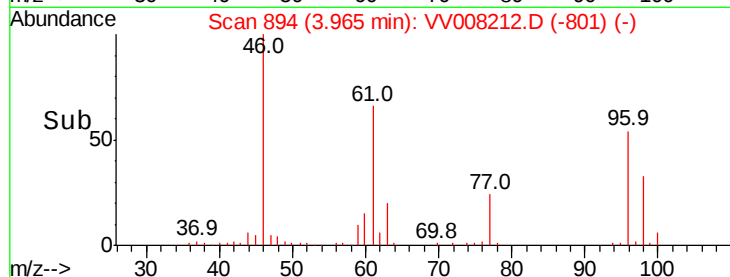
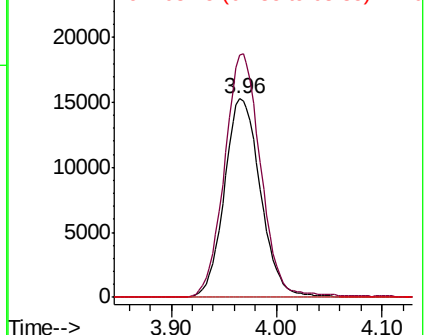
96 100

61 122.3 85.1 158.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



#23

Bromochloromethane

Concen: 5.411 ug/L

RT: 4.31 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Tgt Ion: 128 Resp: 16512

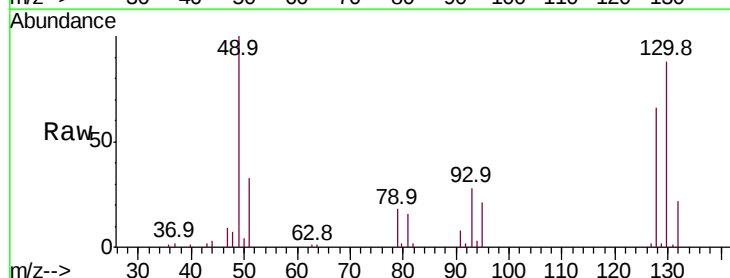
Ion Ratio Lower Upper

128 100

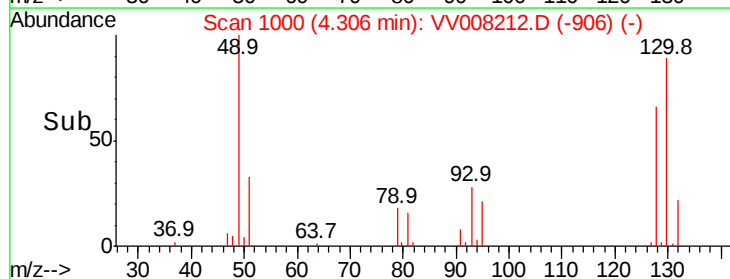
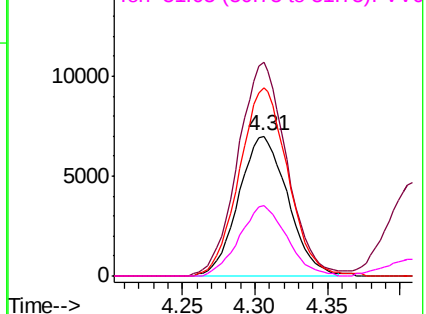
49 152.6 99.8 185.3

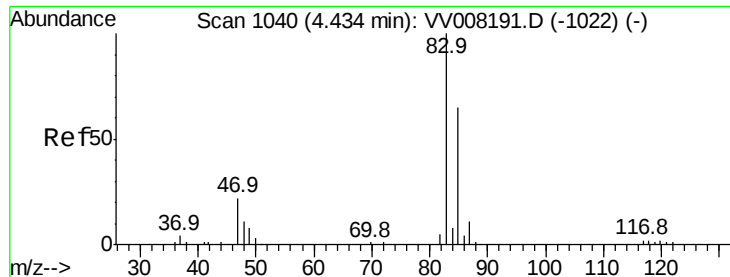
130 134.4 85.5 158.7

51 49.9 38.0 57.0



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0





#25

Chloroform

Concen: 5.469 ug/L

RT: 4.43 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

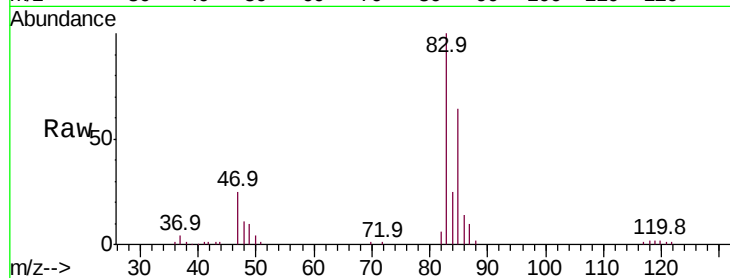
VSTD00562

Tot Ion: 83 Resp: 66775

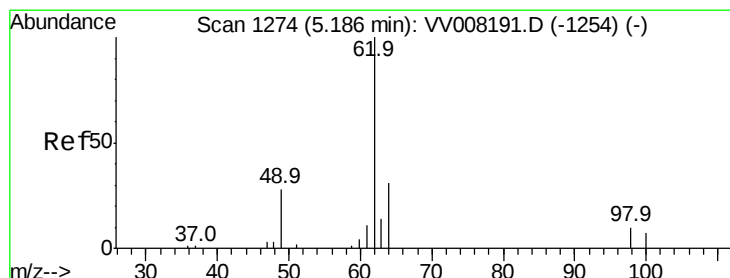
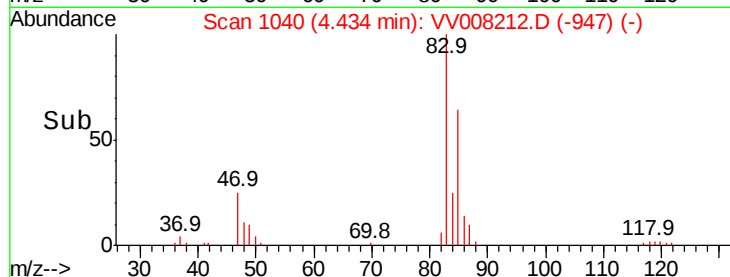
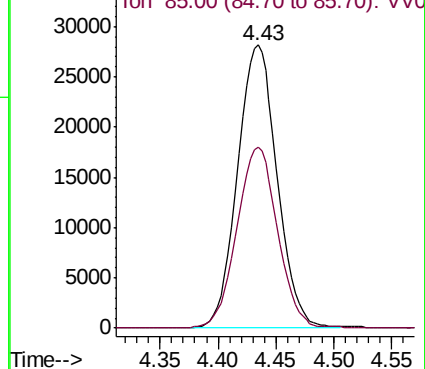
Ion Ratio Lower Upper

83 100

85 64.2 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VV008212.D (-947) (-)



#27

1,2-Dichloroethane

Concen: 5.417 ug/L

RT: 5.19 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VV008212.D

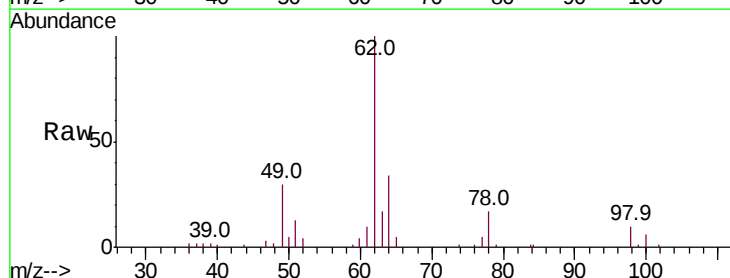
Acq: 09 Oct 2018 20:59

Tgt Ion: 62 Resp: 38856

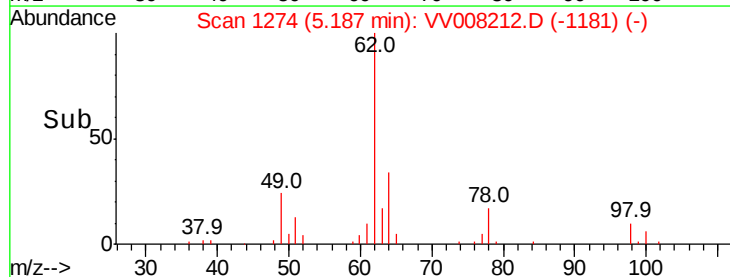
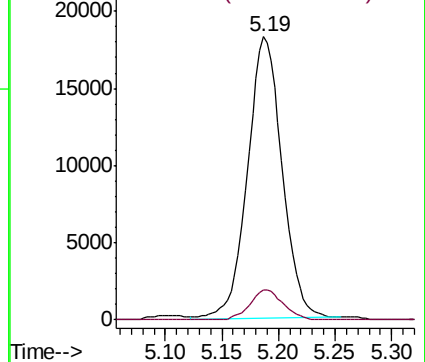
Ion Ratio Lower Upper

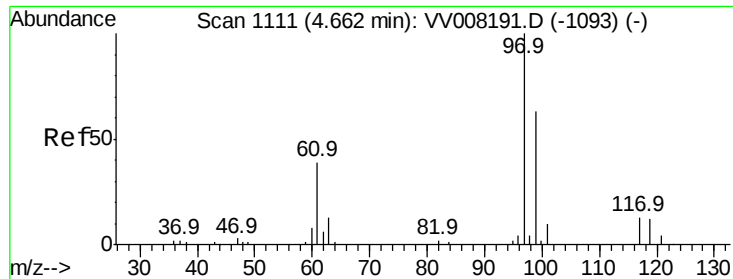
62 100

98 10.5 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VV008212.D (-1181) (-)

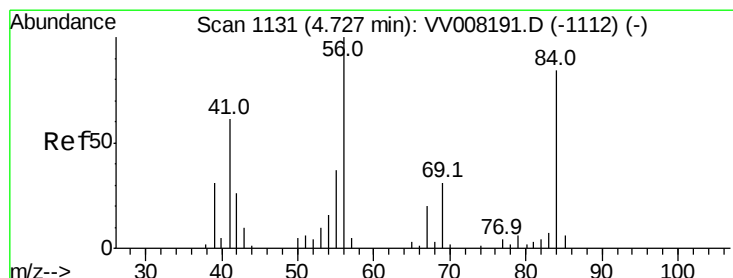
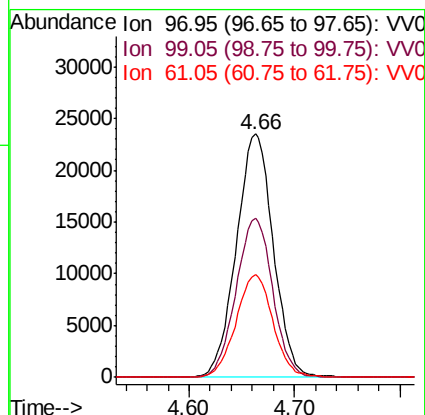
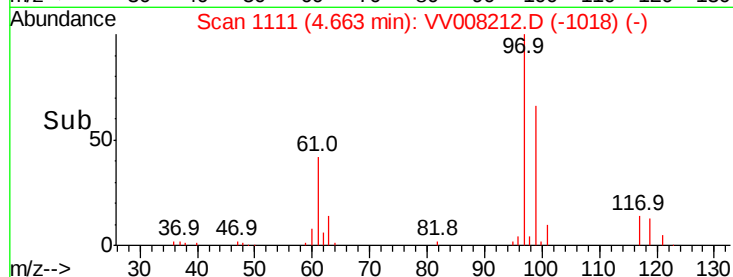
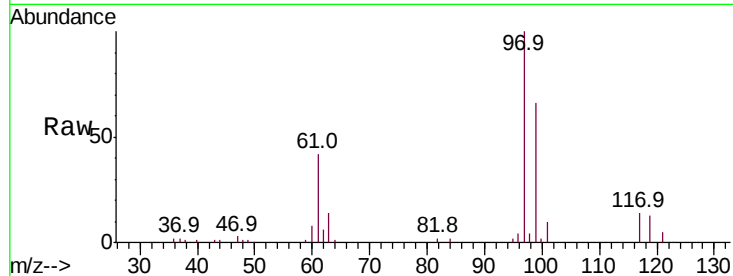




#29
 1,1,1-Trichloroethane
 Concen: 5.225 ug/L
 RT: 4.66 min Scan# 1111
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

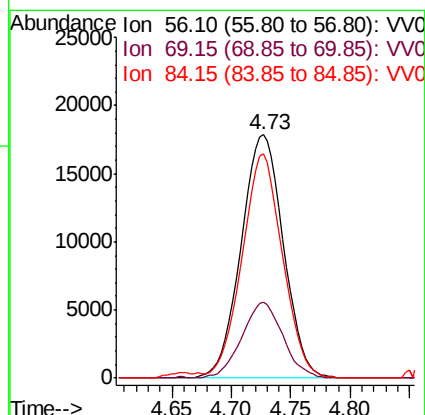
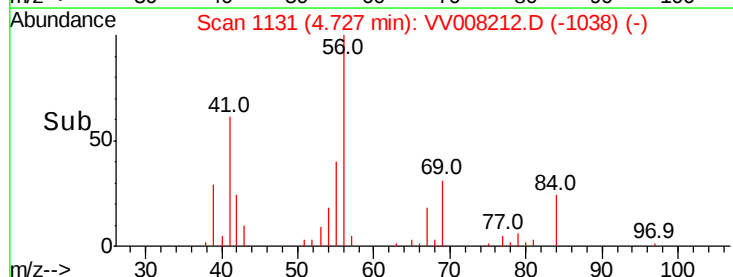
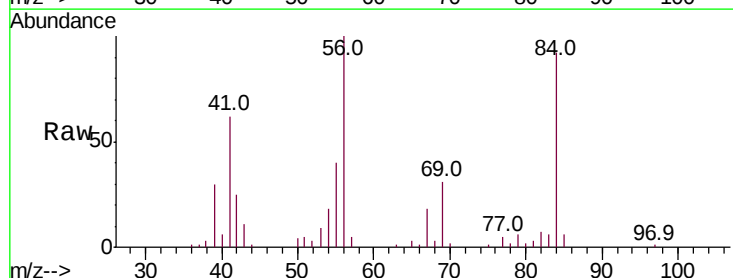
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

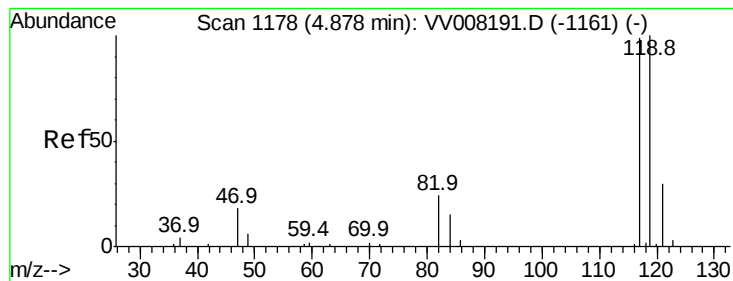
Tot Ion: 97 Resp: 57306
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.0 76.4
 61 42.1 34.0 51.0



#30
 Cyclohexane
 Concen: 4.828 ug/L
 RT: 4.73 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Tgt Ion: 56 Resp: 43972
 Ion Ratio Lower Upper
 56 100
 69 30.4 24.6 36.8
 84 88.5 70.7 106.1





#31

Carbon tetrachloride

Concen: 5.128 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

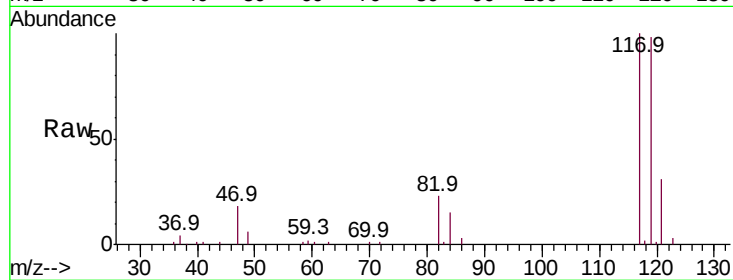
VSTD00562

Tot Ion:117 Resp: 50524

Ion Ratio Lower Upper

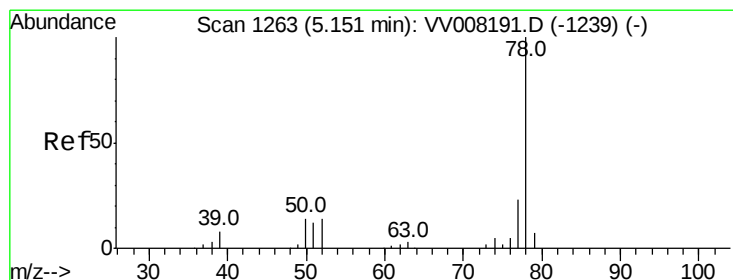
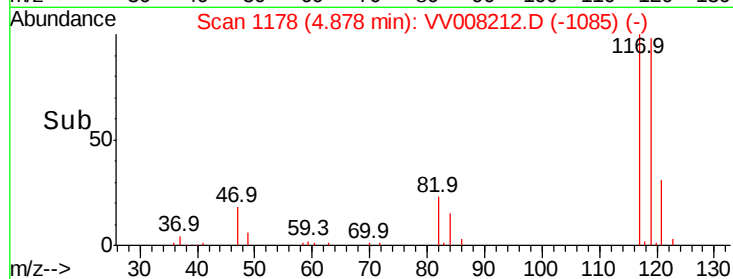
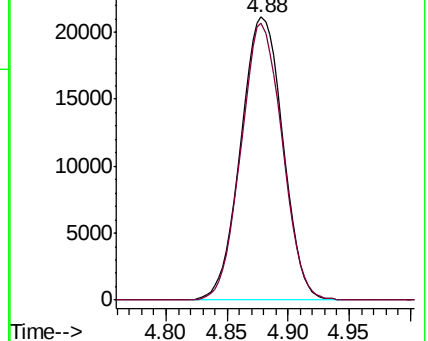
117 100

119 95.8 76.3 114.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.461 ug/L

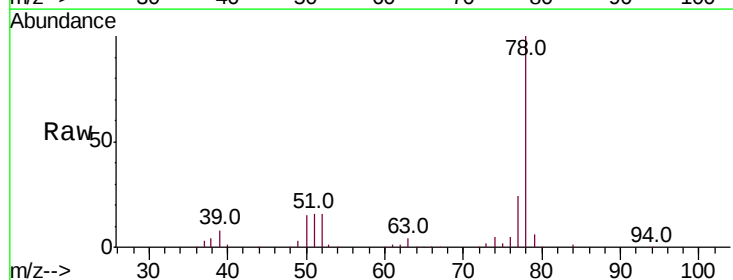
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

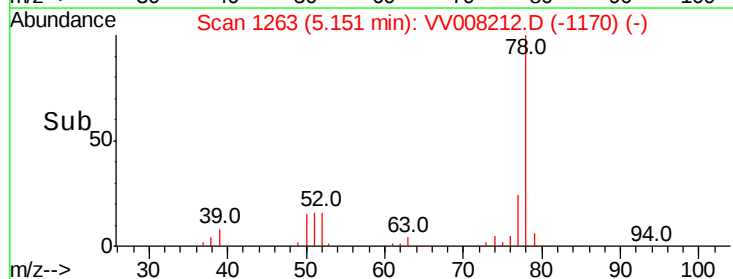
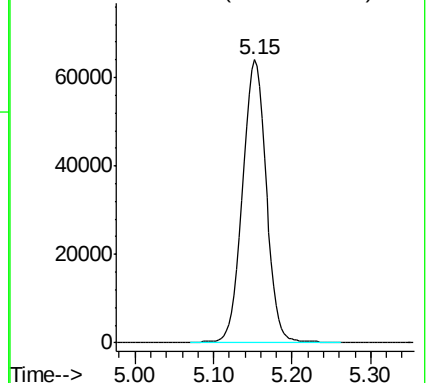
Lab File: VV008212.D

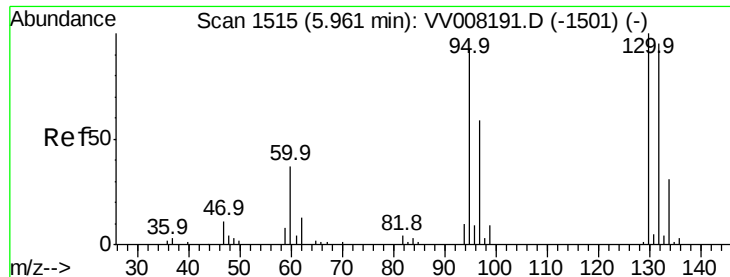
Acq: 09 Oct 2018 20:59

Tgt Ion: 78 Resp: 136080



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 5.022 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

Tot Ion: 95 Resp: 36514

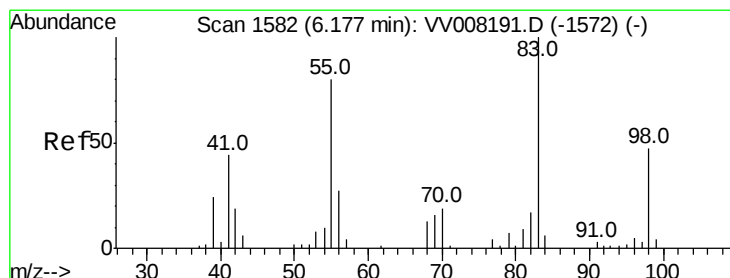
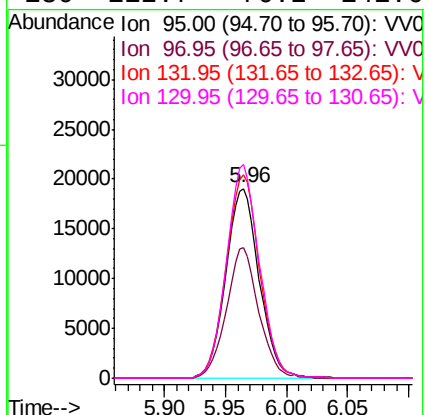
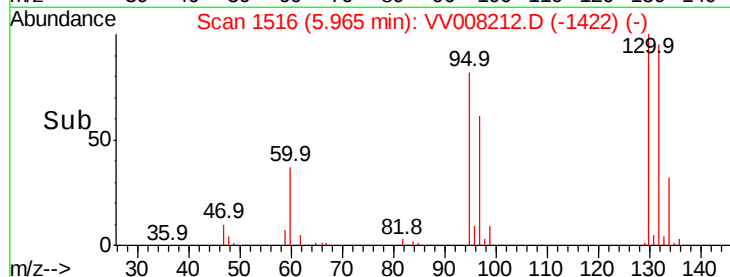
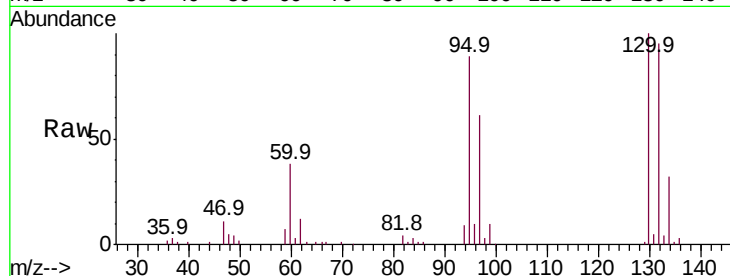
Ion Ratio Lower Upper

95 100

97 69.1 44.9 83.5

132 107.5 73.6 136.6

130 112.7 76.2 141.6



#35

Methylcyclohexane

Concen: 4.803 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

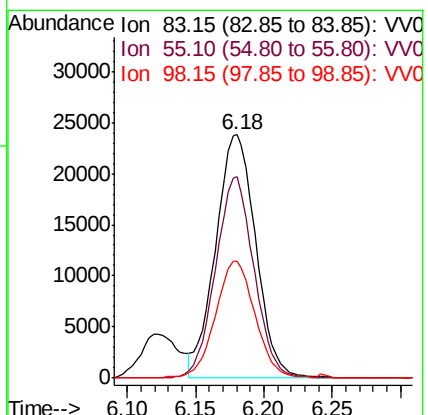
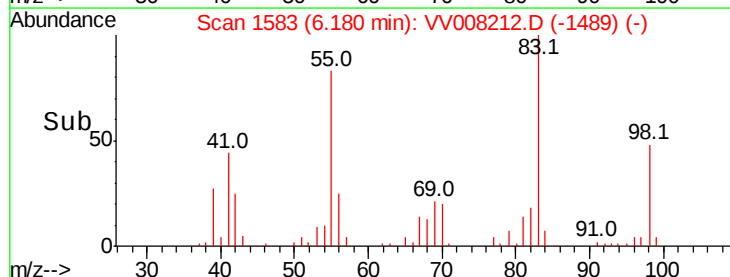
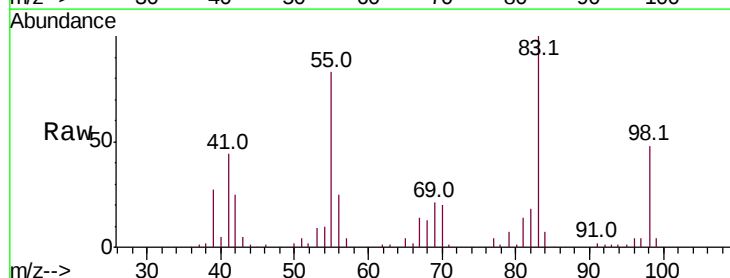
Tgt Ion: 83 Resp: 48784

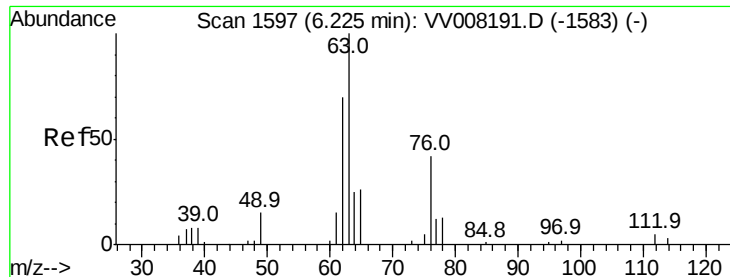
Ion Ratio Lower Upper

83 100

55 79.1 63.6 95.4

98 47.3 38.3 57.5





#37

1,2-Dichloropropane

Concen: 5.485 ug/L

RT: 6.23 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

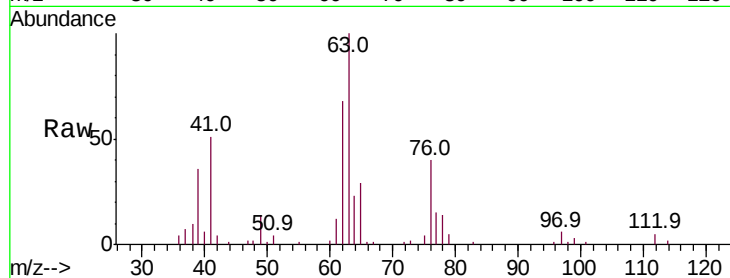
VSTD00562

Tot Ion: 63 Resp: 36876

Ion Ratio Lower Upper

63 100

112 4.3 3.4 5.2



Abundance Ion 63.10 (62.80 to 63.80): VV008212.D (-1583) (-)

Ion 112.10 (111.80 to 112.80): VV008212.D (-1583) (-)

6.23

20000

15000

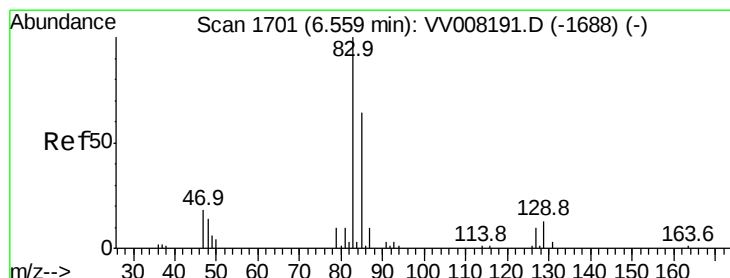
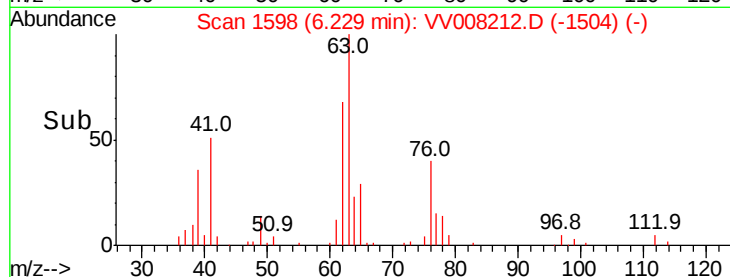
10000

5000

0

6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 5.412 ug/L

RT: 6.56 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

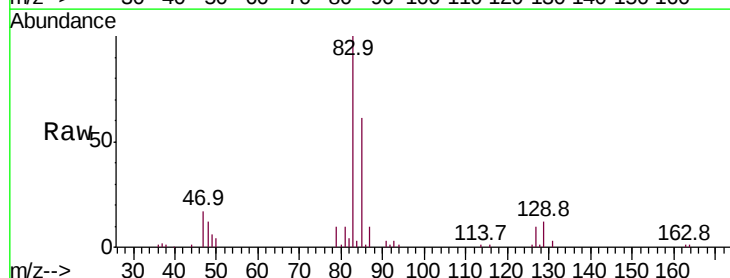
Tgt Ion: 83 Resp: 44510

Ion Ratio Lower Upper

83 100

85 61.3 42.5 78.9

127 10.2 7.7 11.5



Abundance Ion 82.95 (82.65 to 83.65): VV008212.D (-1688) (-)

Ion 85.00 (84.70 to 85.70): VV008212.D (-1688) (-)

Ion 126.90 (126.60 to 127.60): VV008212.D (-1688) (-)

6.56

30000

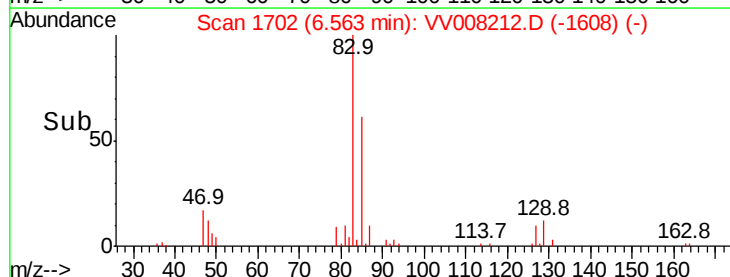
20000

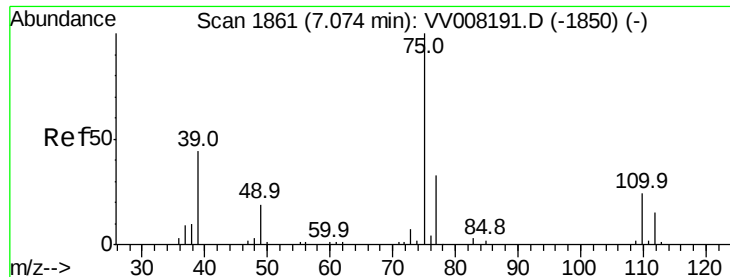
10000

0

6.50 6.55 6.60 6.65

Time-->



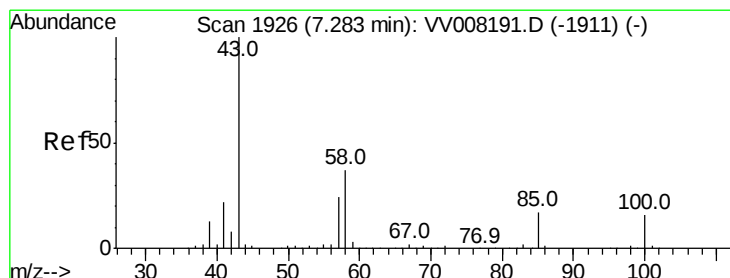
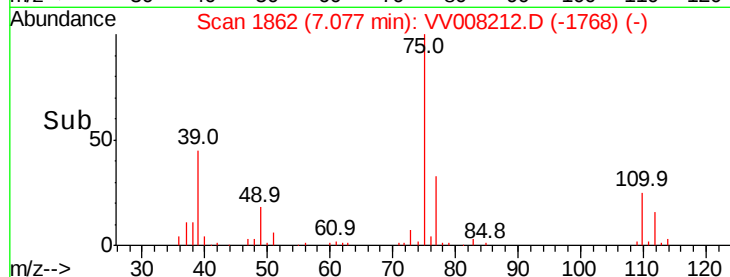
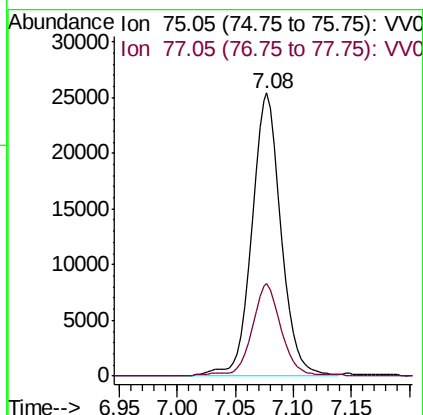
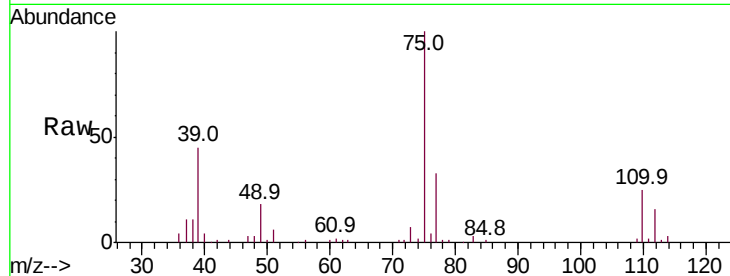


#39

cis-1,3-Dichloropropene
Concen: 5.196 ug/L
RT: 7.08 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

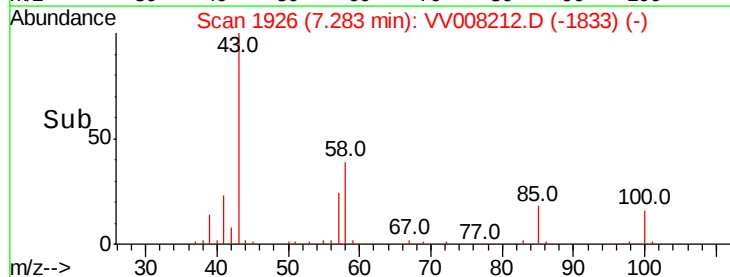
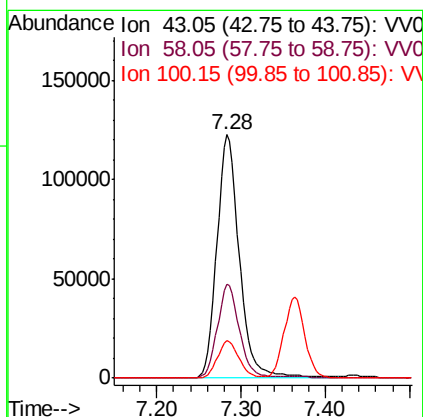
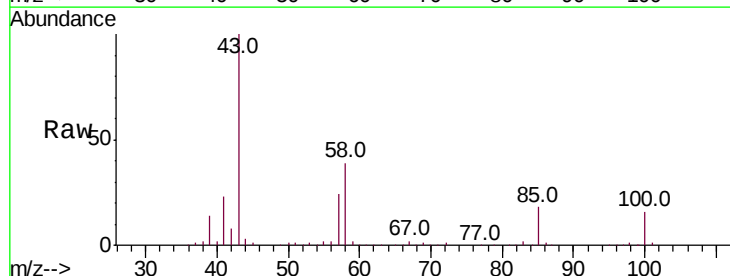
Tot Ion: 75 Resp: 44796
Ion Ratio Lower Upper
75 100
77 32.8 22.1 41.1

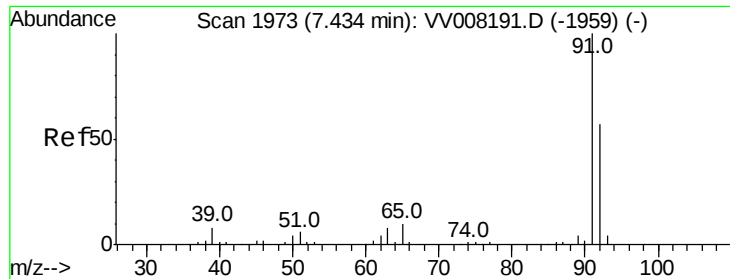


#40

4-Methyl-2-pentanone
Concen: 59.869 ug/L
RT: 7.28 min Scan# 1926
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

Tgt Ion: 43 Resp: 228112
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.8
100 14.7 11.6 17.4





#42

Toluene

Concen: 5.552 ug/L

RT: 7.44 min Scan# 1974

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

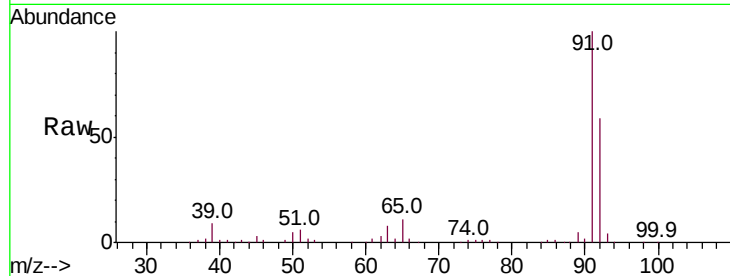
VSTD00562

Tot Ion: 91 Resp: 146971

Ion Ratio Lower Upper

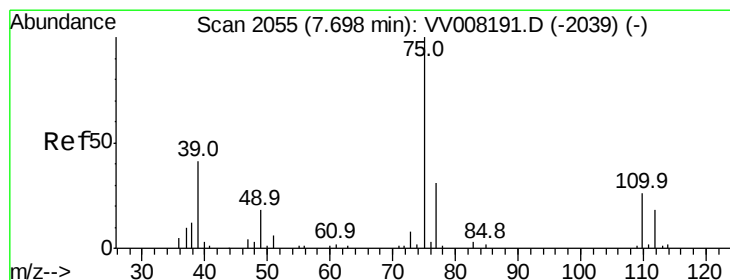
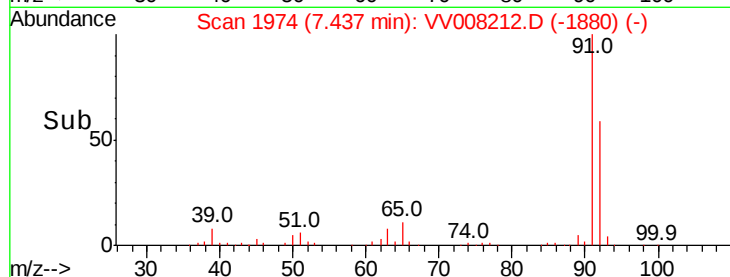
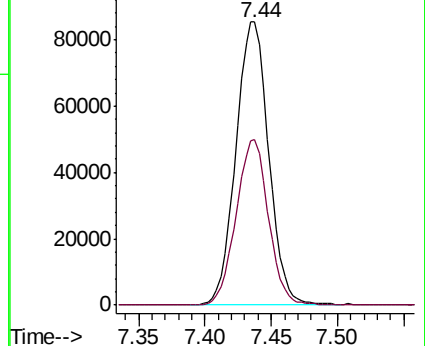
91 100

92 58.6 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV008212.D (-1959) (-)

Ion 92.15 (91.85 to 92.85): VV008212.D (-1959) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.510 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008212.D

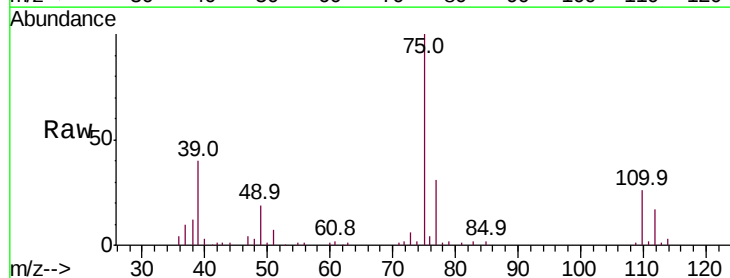
Acq: 09 Oct 2018 20:59

Tgt Ion: 75 Resp: 38628

Ion Ratio Lower Upper

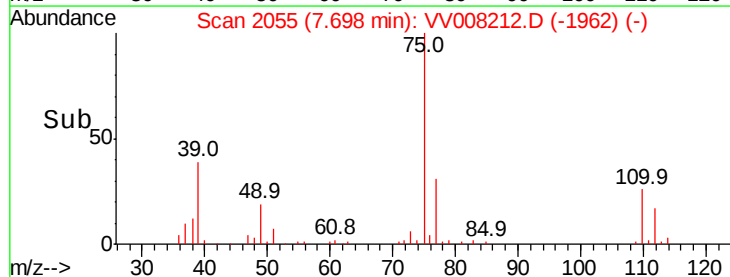
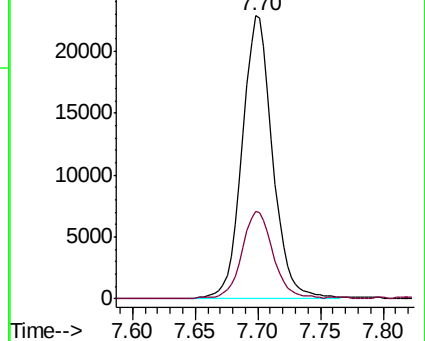
75 100

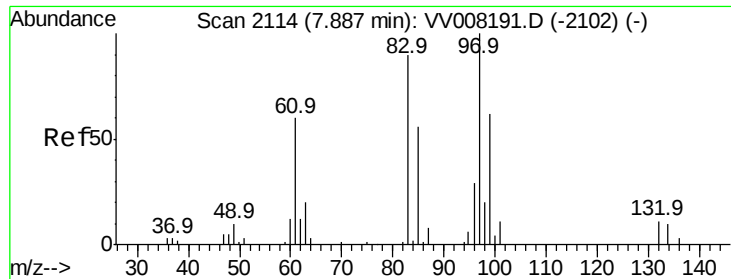
77 30.8 23.4 43.6



Abundance Ion 75.05 (74.75 to 75.75): VV008212.D (-1962) (-)

Ion 77.05 (76.75 to 77.75): VV008212.D (-1962) (-)





#45

1,1,2-Trichloroethane

Concen: 5.659 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

Tot Ion: 97 Resp: 26687

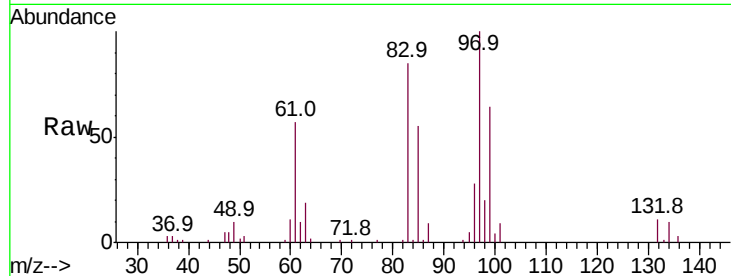
Ion Ratio Lower Upper

97 100

99 63.8 42.6 79.0

83 85.2 57.5 106.7

85 54.9 36.5 67.7



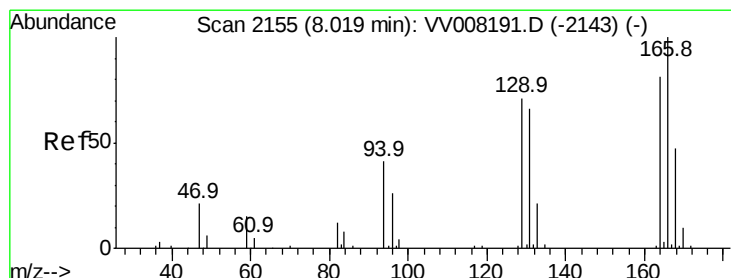
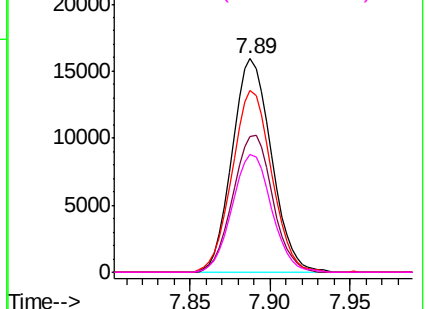
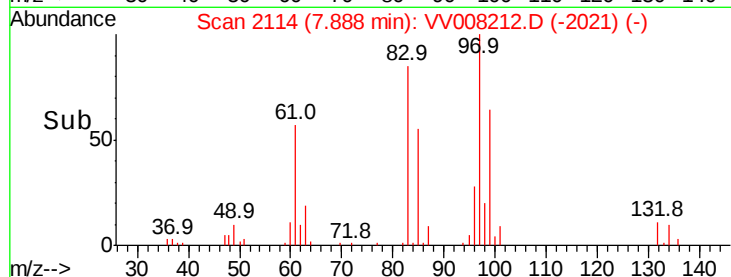
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 5.173 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Tgt Ion: 164 Resp: 33597

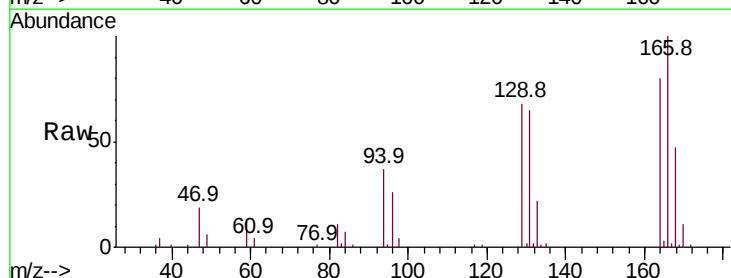
Ion Ratio Lower Upper

164 100

129 85.4 62.2 115.4

131 81.2 60.5 112.5

166 125.6 92.1 171.1



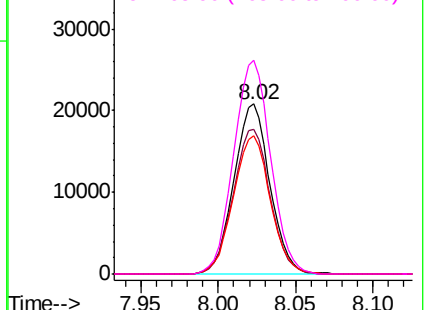
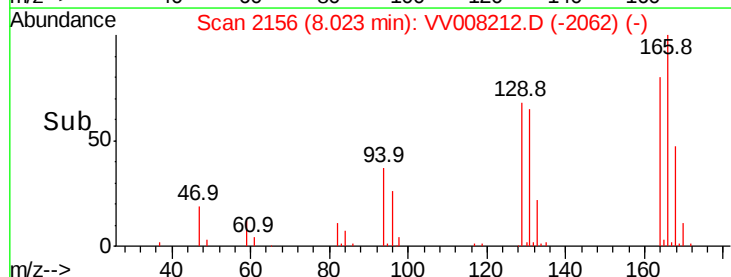
Abundance

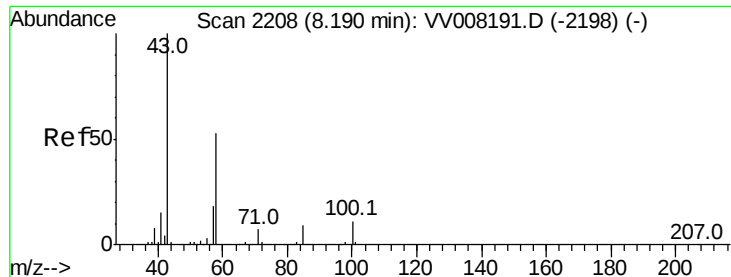
Ion 163.90 (163.60 to 164.60): V

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

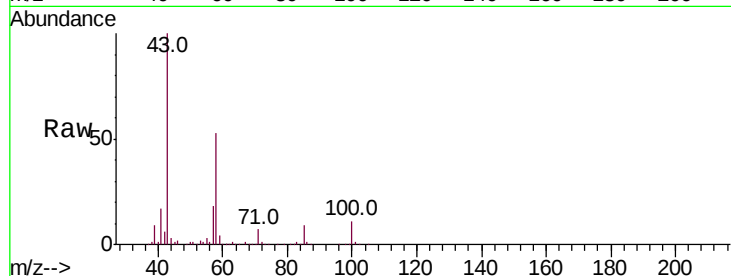




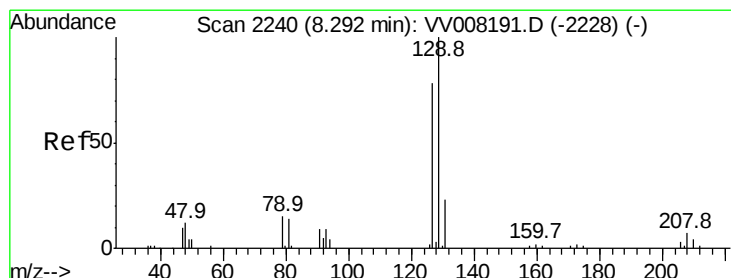
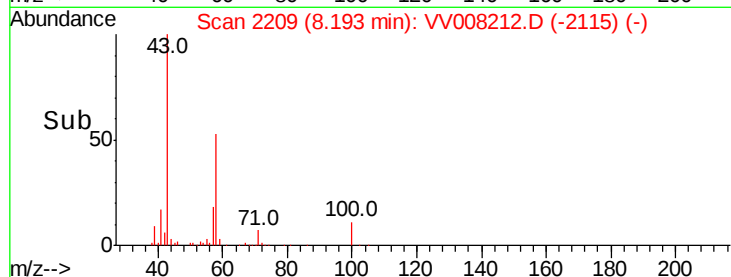
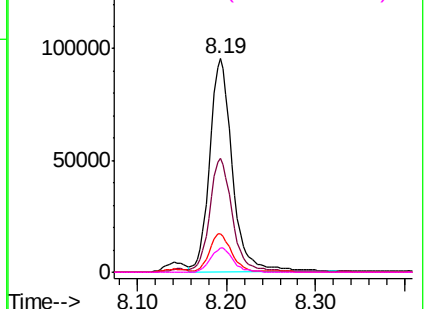
#48
2-Hexanone
Concen: 64.494 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tot Ion: 43 Resp: 166826
Ion Ratio Lower Upper
43 100
58 53.2 40.5 60.7
57 17.4 14.6 22.0
100 11.6 9.3 13.9

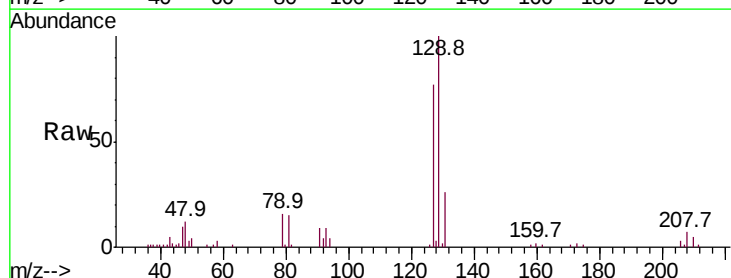


Abundance Ion 43.05 (42.75 to 43.75): VV008191.D (-2198) (-)
Ion 58.05 (57.75 to 58.75): VV008191.D (-2198) (-)
Ion 57.20 (56.90 to 57.90): VV008191.D (-2198) (-)
Ion 100.15 (99.85 to 100.85): VV008191.D (-2198) (-)

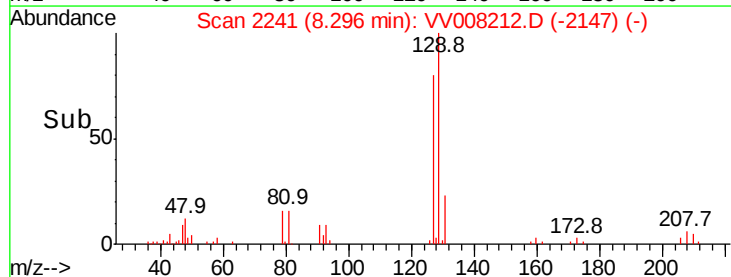
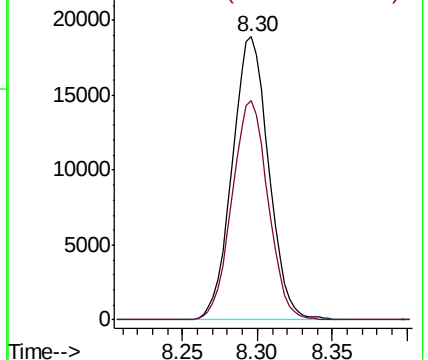


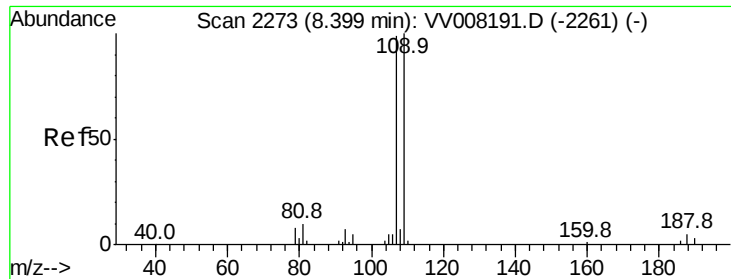
#49
Dibromochloromethane
Concen: 5.458 ug/L
RT: 8.30 min Scan# 2241
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

Tgt Ion: 129 Resp: 32110
Ion Ratio Lower Upper
129 100
127 77.4 54.5 101.3



Abundance Ion 128.95 (128.65 to 129.65): VV008191.D (-2228) (-)
Ion 126.90 (126.60 to 127.60): VV008191.D (-2228) (-)

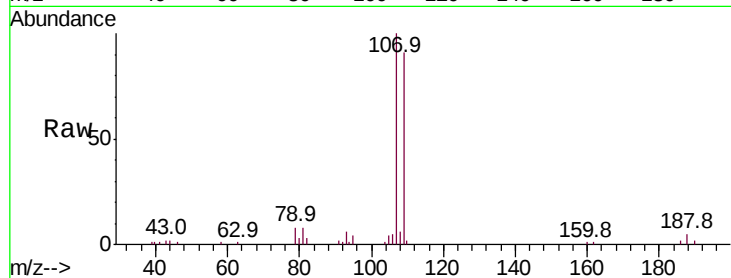




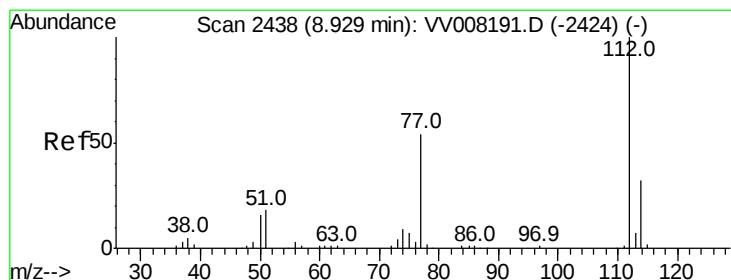
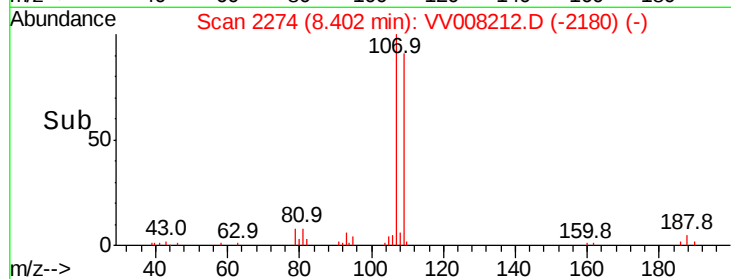
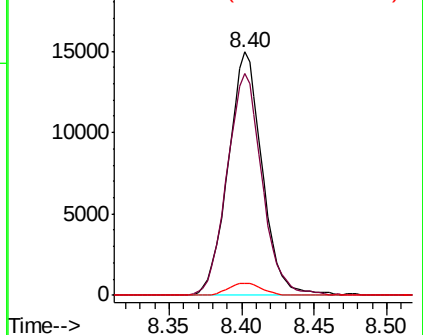
#50
 1,2-Dibromoethane
 Concen: 5.666 ug/L
 RT: 8.40 min Scan# 2274
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.9	65.5	121.6
188	4.9	3.5	5.3

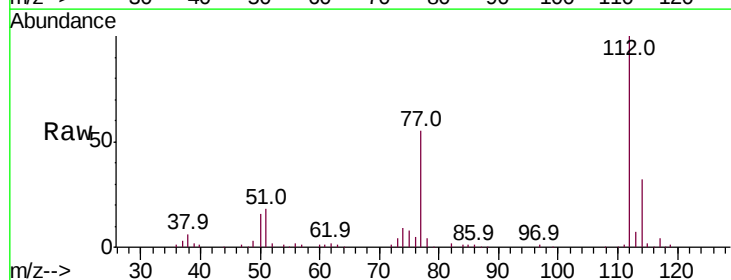


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

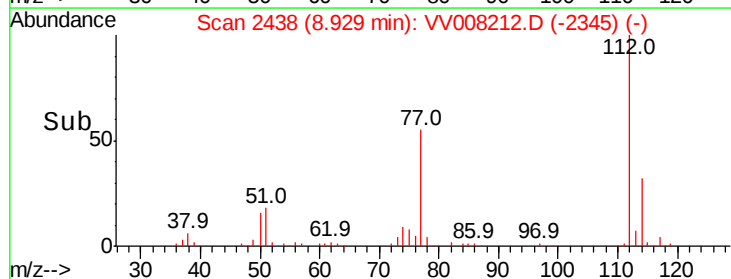
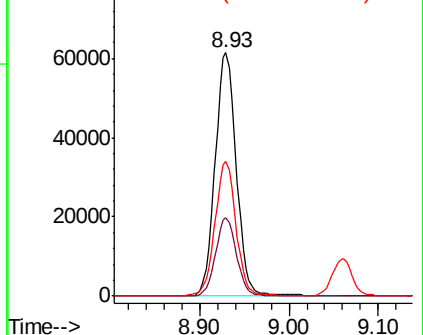


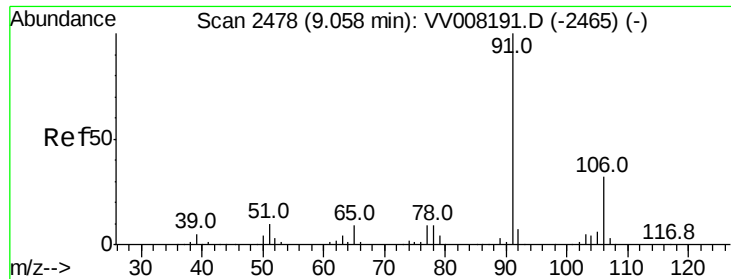
#51
 Chlorobenzene
 Concen: 5.481 ug/L
 RT: 8.93 min Scan# 2438
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.8	42.4
77	55.2	44.6	66.8



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): VV0

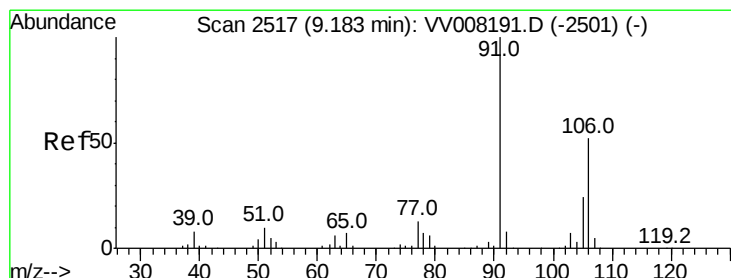
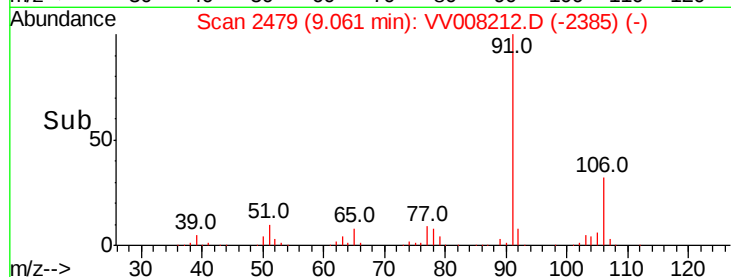
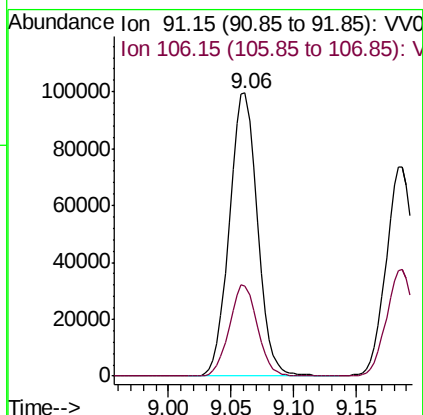
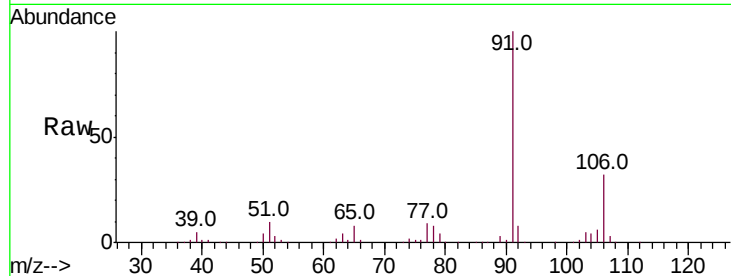




#52
Ethylbenzene
Concen: 5.373 ug/L
RT: 9.06 min Scan# 2479
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

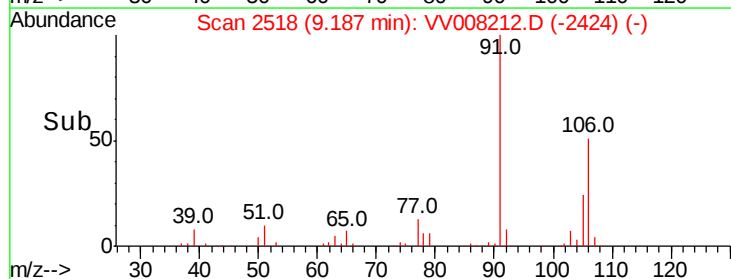
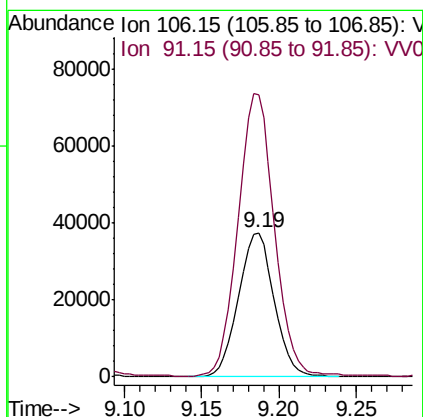
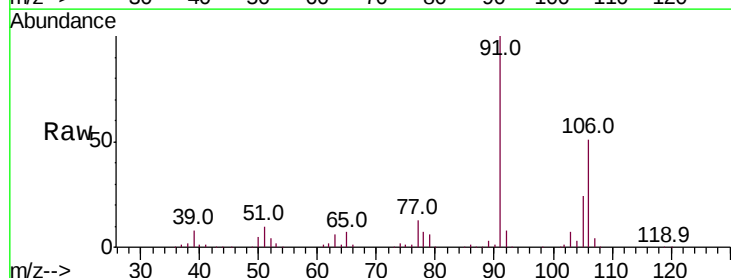
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

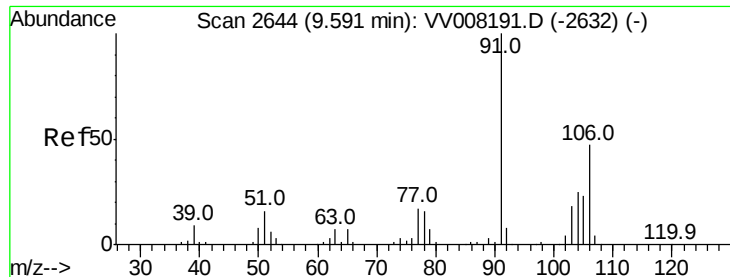
Tot Ion: 91 Resp: 155236
Ion Ratio Lower Upper
91 100
106 32.0 22.3 41.5



#53
m,p-xylene
Concen: 5.502 ug/L
RT: 9.19 min Scan# 2518
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

Tgt Ion: 106 Resp: 60256
Ion Ratio Lower Upper
106 100
91 195.7 140.8 261.4

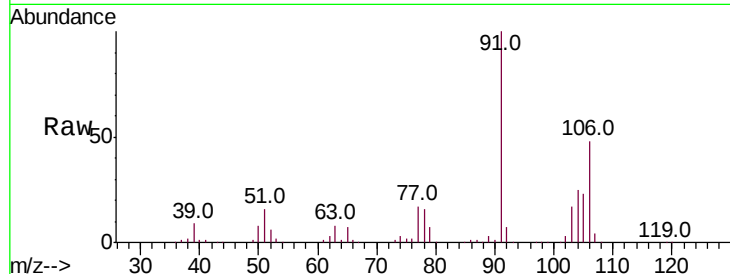




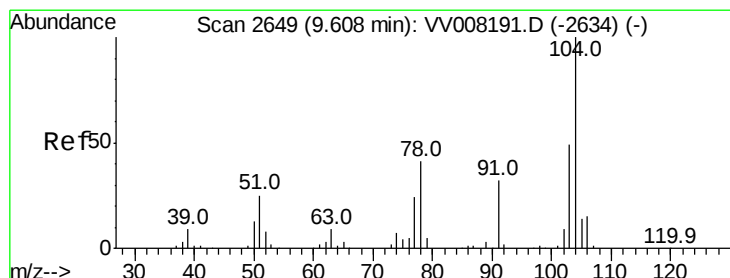
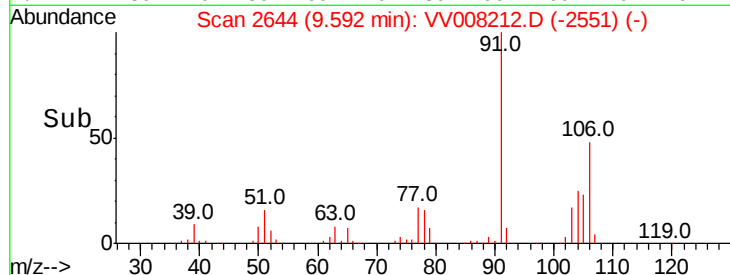
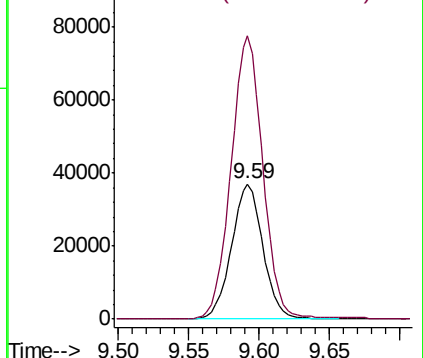
#54
o-xylene
Concen: 5.527 ug/L
RT: 9.59 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

Instrument :
MSVOA_V
ClientSampled :
VSTD00562

Tot Ion:106 Resp: 57792
Ion Ratio Lower Upper
106 100
91 209.6 149.1 276.9

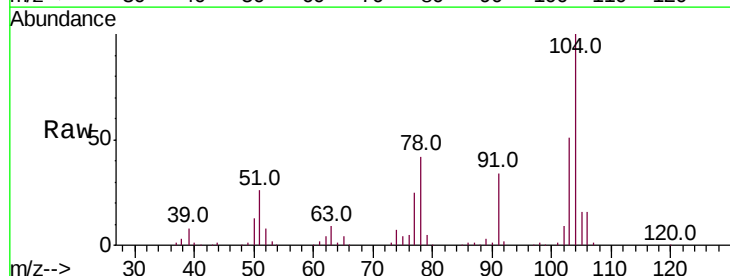


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

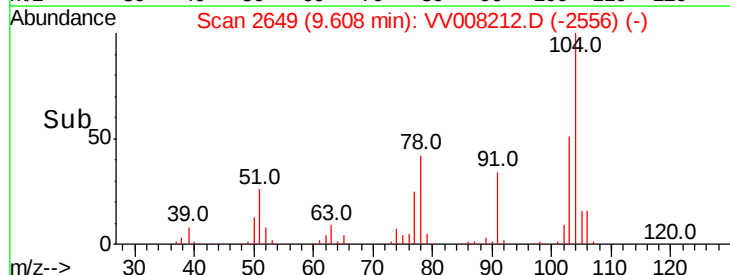
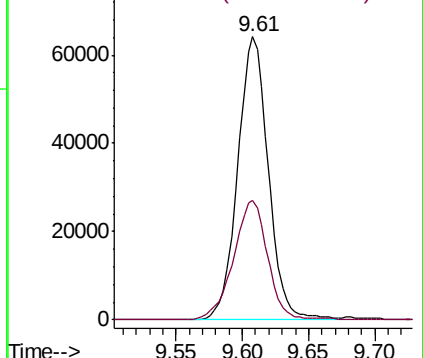


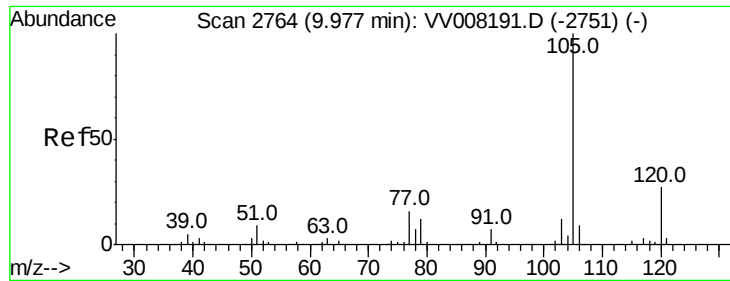
#55
Styrene
Concen: 5.785 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VV008212.D
Acq: 09 Oct 2018 20:59

Tgt Ion:104 Resp: 103017
Ion Ratio Lower Upper
104 100
78 42.4 29.5 54.9



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.451 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampled :

VSTD00562

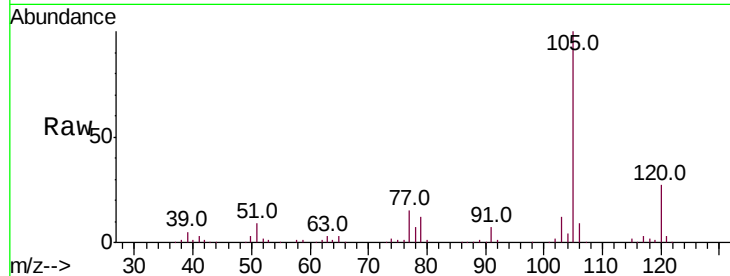
Tot Ion:105 Resp: 156782

Ion Ratio Lower Upper

105 100

120 27.3 21.9 32.9

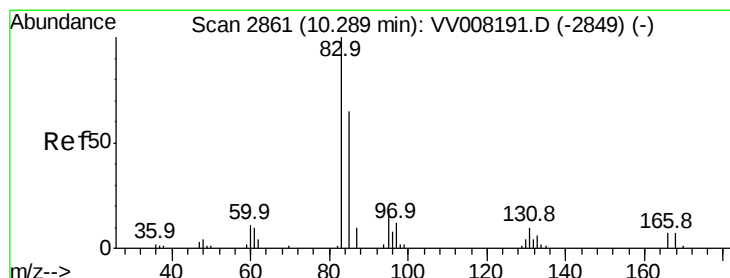
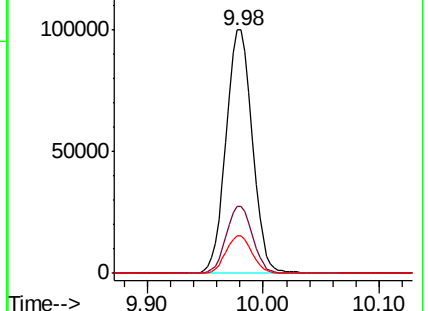
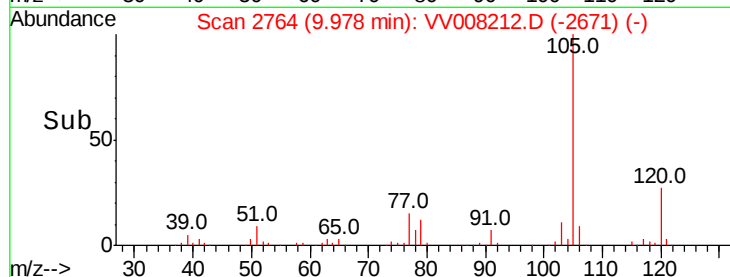
77 15.3 12.2 18.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.441 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

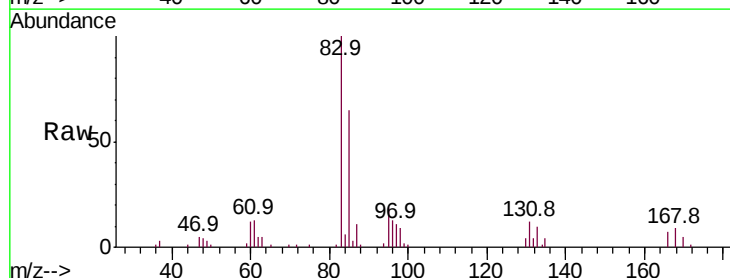
Tgt Ion: 83 Resp: 29746

Ion Ratio Lower Upper

83 100

85 64.5 45.1 83.7

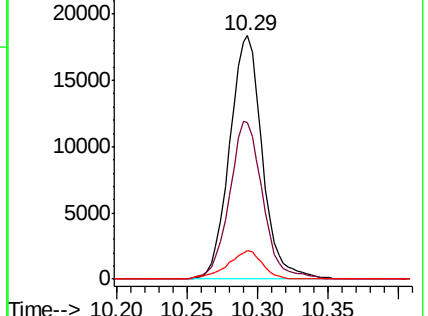
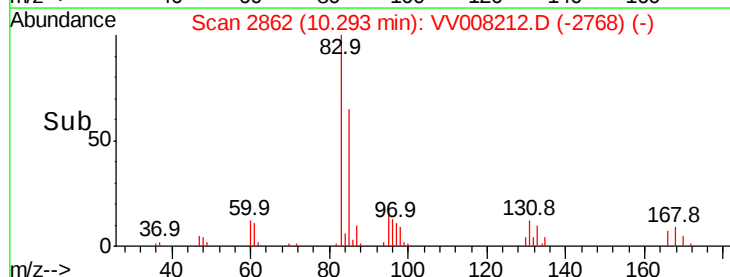
131 11.9 8.8 13.2

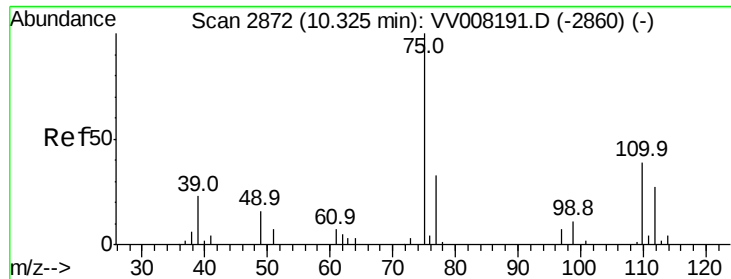


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

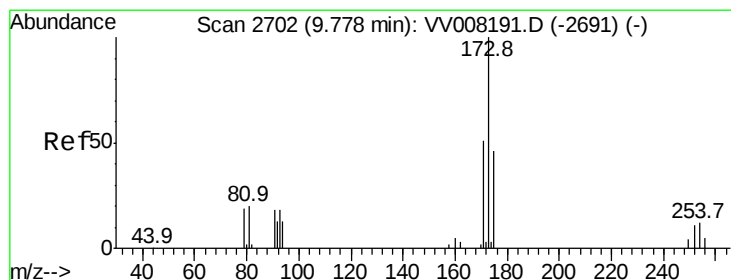
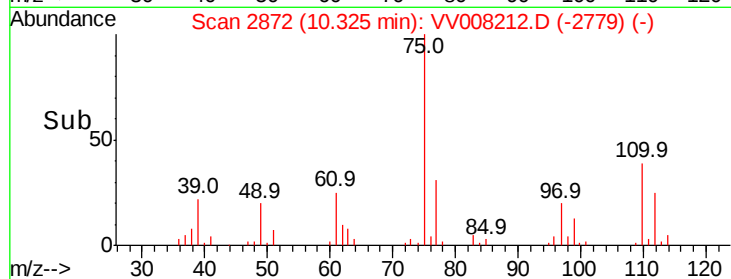
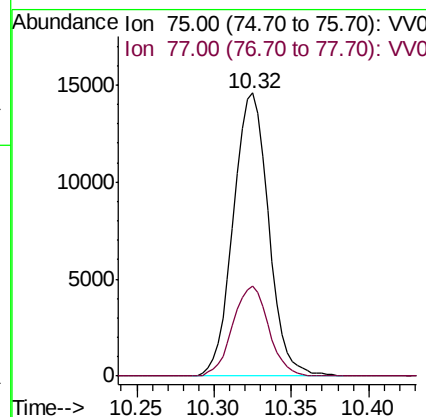
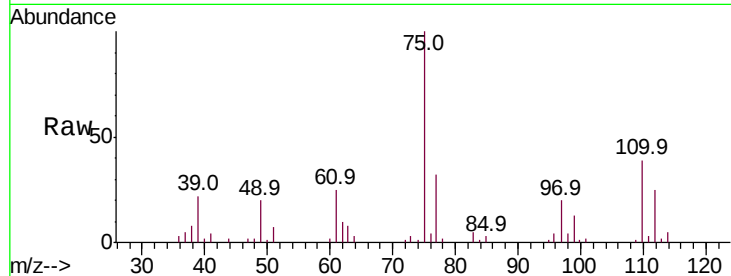




#59
 1,2,3-Trichloropropane
 Concen: 5.887 ug/L
 RT: 10.32 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

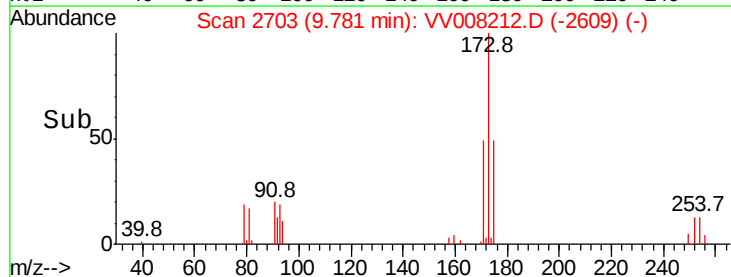
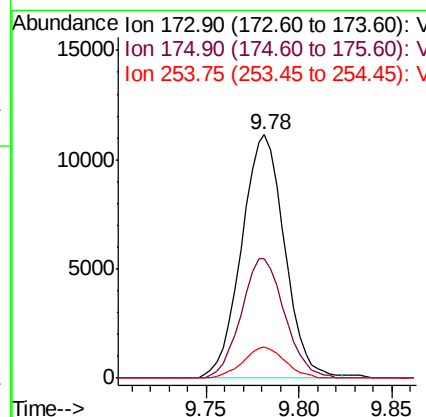
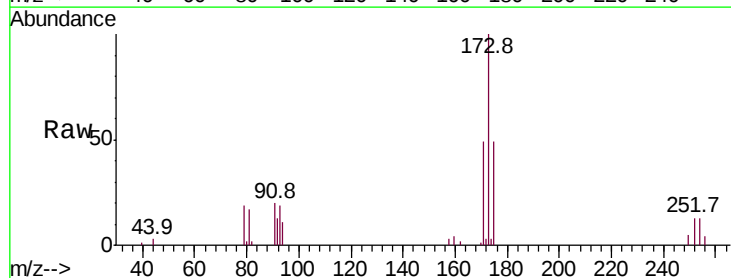
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

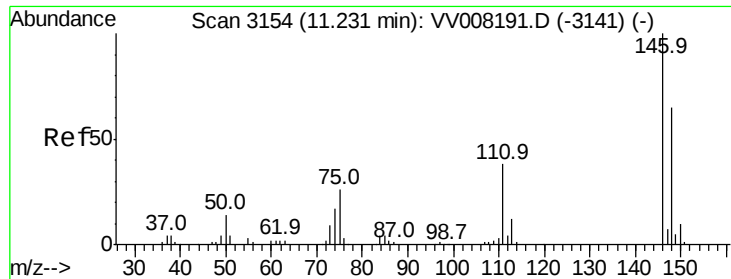
Tot Ion: 75 Resp: 23107
 Ion Ratio Lower Upper
 75 100
 77 32.3 27.8 41.6



#61
 Bromoform
 Concen: 5.579 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

Tgt Ion:173 Resp: 17980
 Ion Ratio Lower Upper
 173 100
 175 49.4 39.8 59.8
 254 12.4 9.4 14.0





#62

1,3-Dichlorobenzene

Concen: 5.303 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

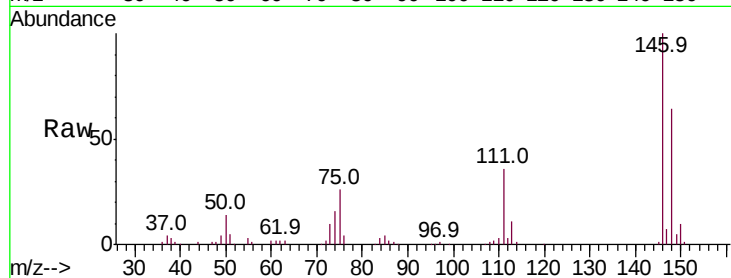
Tot Ion:146 Resp: 82631

Ion Ratio Lower Upper

146 100

111 35.7 25.8 48.0

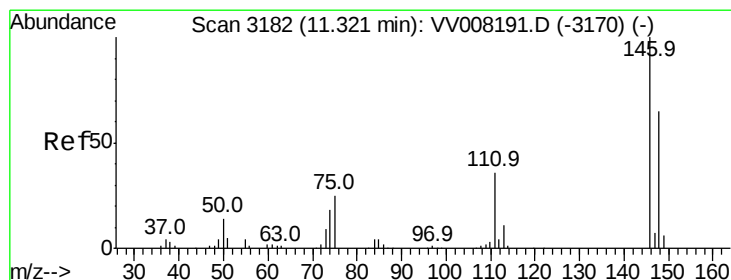
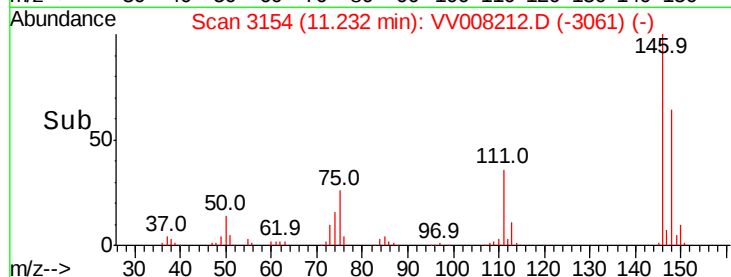
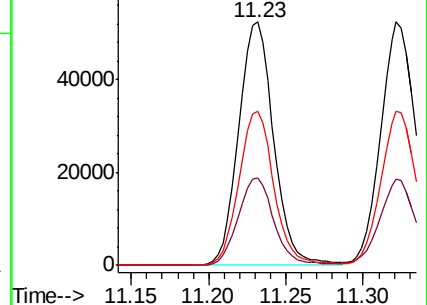
148 63.5 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.349 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

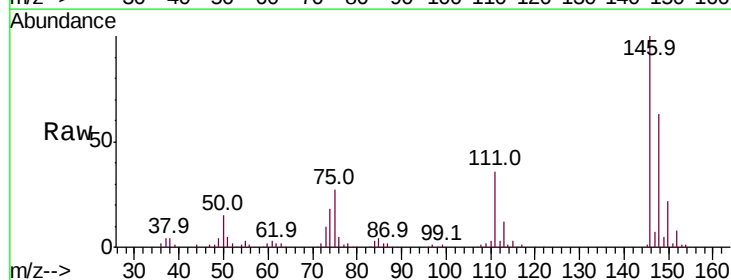
Tgt Ion:146 Resp: 84958

Ion Ratio Lower Upper

146 100

111 35.6 24.2 45.0

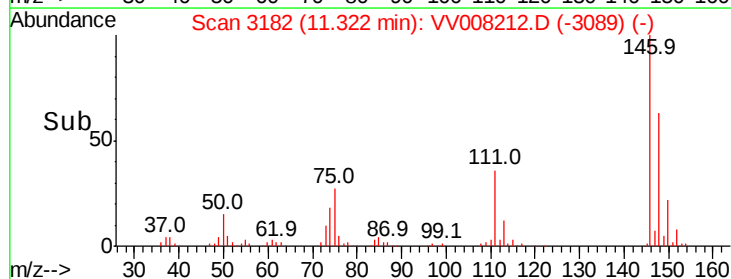
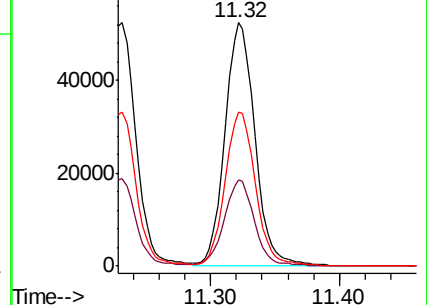
148 63.4 44.0 81.6

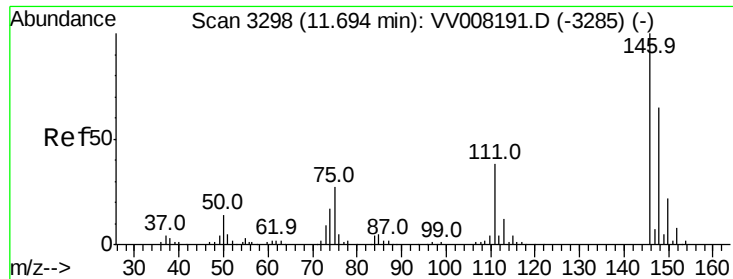


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.427 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

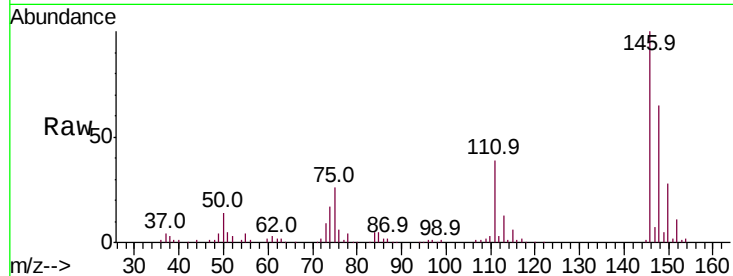
Tot Ion:146 Resp: 81704

Ion Ratio Lower Upper

146 100

111 38.5 31.8 47.6

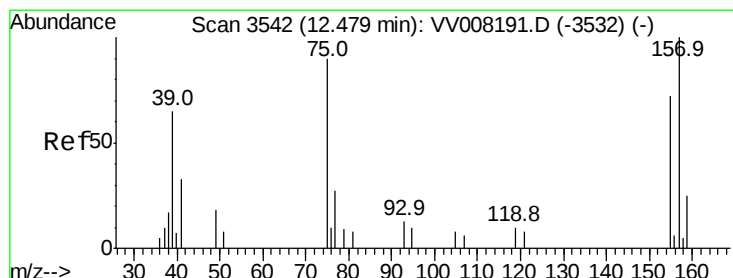
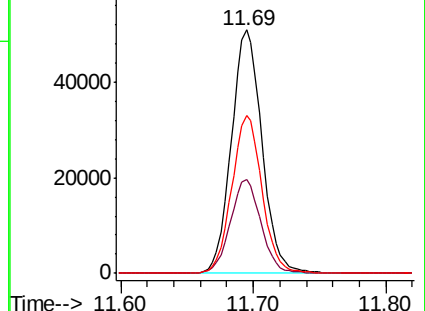
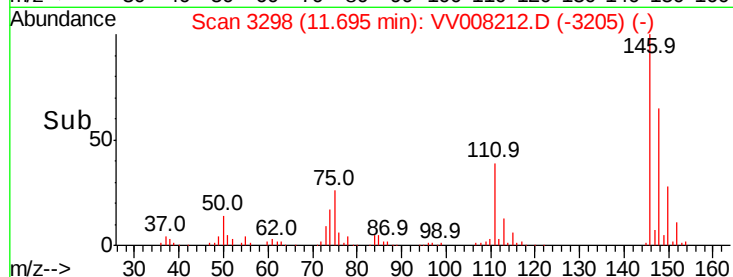
148 65.1 52.2 78.2



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: 5.483 ug/L

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

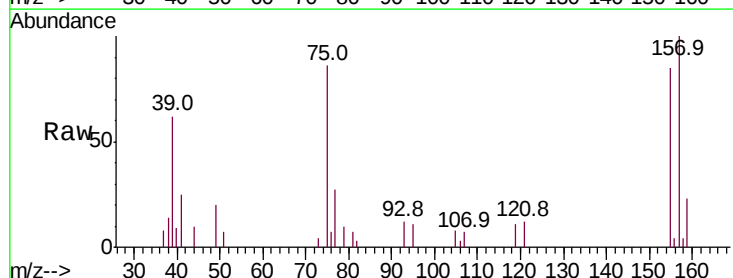
Tgt Ion: 75 Resp: 4311

Ion Ratio Lower Upper

75 100

155 98.8 74.7 112.1

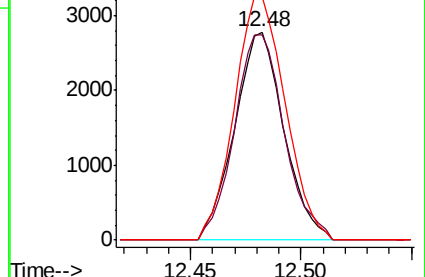
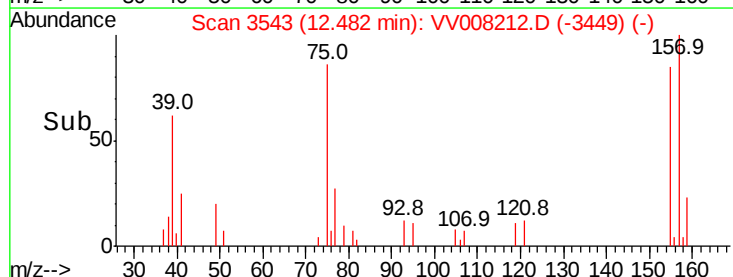
157 116.8 93.1 139.7

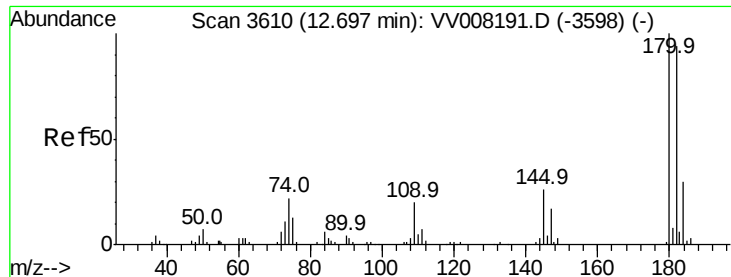


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V



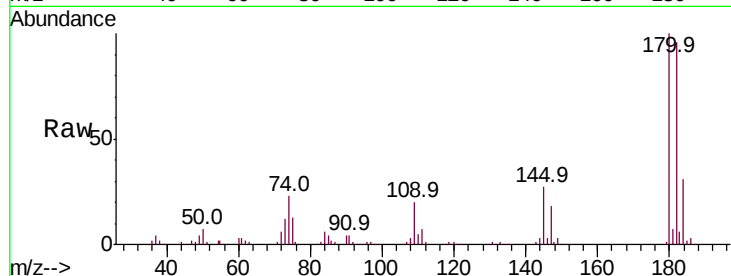


#67
 1,3,5-Trichlorobenzene
 Concen: 5.180 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

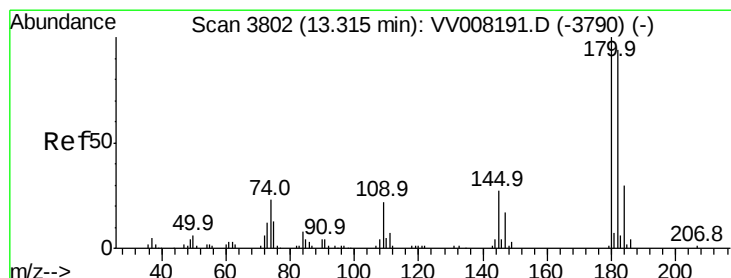
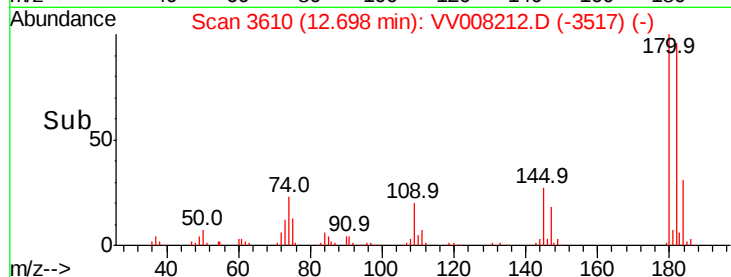
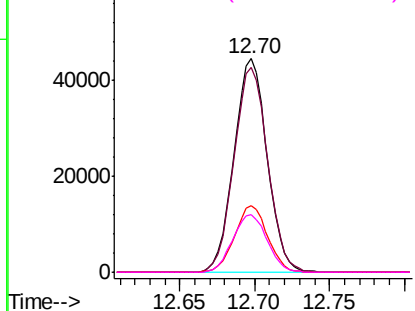
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tot Ion:180 Resp: 68777

Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.0	115.6
184	30.8	24.2	36.2
145	28.0	22.2	33.2



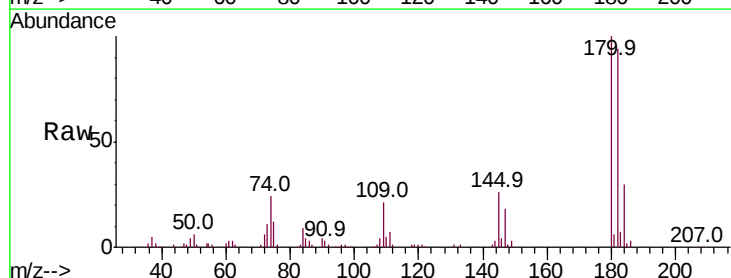
Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V



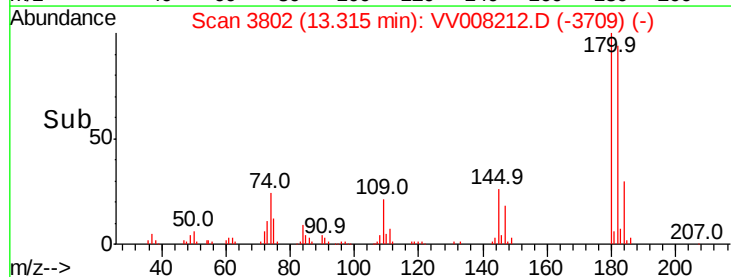
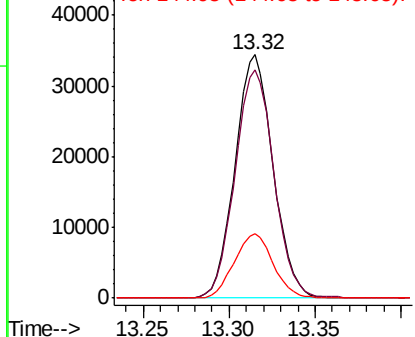
#68
 1,2,4-trichlorobenzene
 Concen: 5.333 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008212.D
 Acq: 09 Oct 2018 20:59

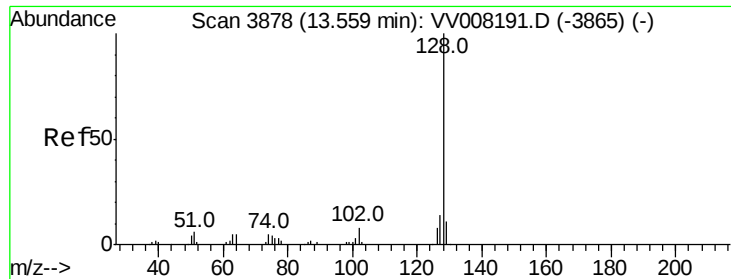
Tgt Ion:180 Resp: 52825

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.6	114.8
145	27.0	22.1	33.1



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: 5.156 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. -0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

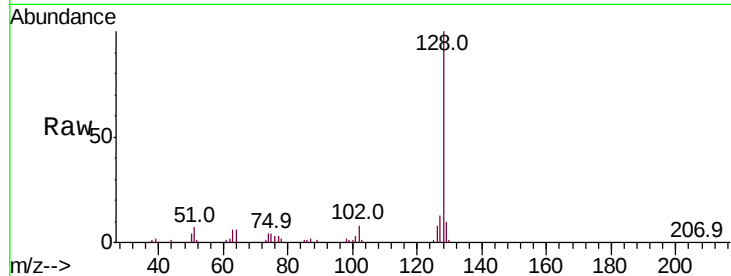
Tot Ion:128 Resp: 65206

Ion Ratio Lower Upper

128 100

129 10.7 8.5 12.7

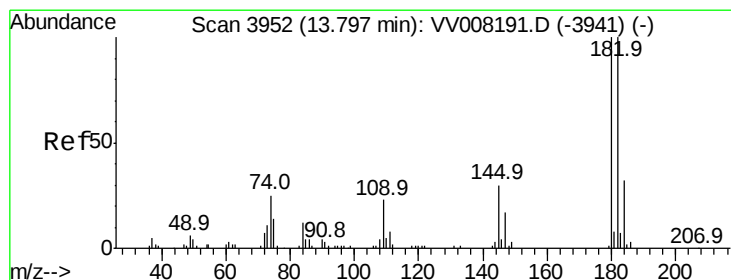
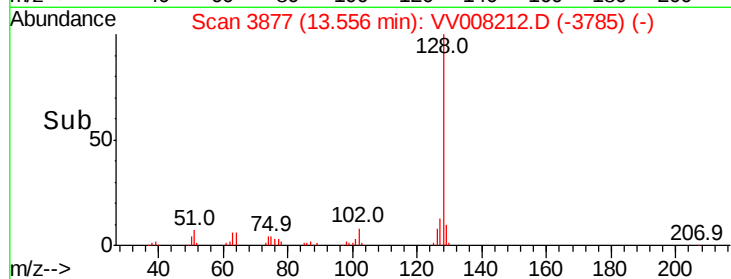
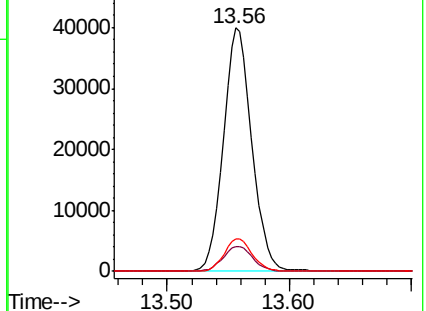
127 13.2 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.478 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008212.D

Acq: 09 Oct 2018 20:59

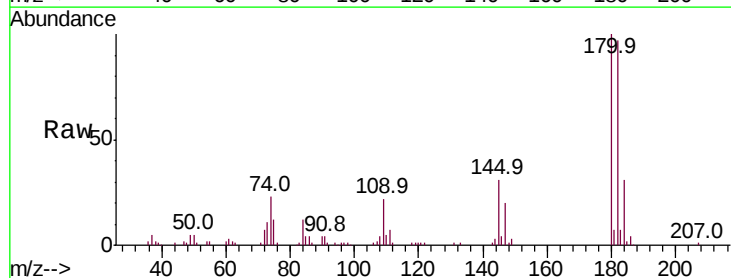
Tgt Ion:180 Resp: 51597

Ion Ratio Lower Upper

180 100

182 95.9 75.1 112.7

145 30.4 23.2 34.8



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

