

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
 Data File : VW021474.D
 Acq On : 18 Dec 2021 14:18
 Operator : SY/VA
 Sample : M5154-01
 Misc : 6.31g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 18 23:11:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM120921SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Dec 18 00:55:20 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	173245	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	168033	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.554	152	95234	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	50915	16.137	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	64.560%
7) Chloroethane-d5	2.879	69	30650	14.694	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	58.760%
11) 1,1-Dichloroethene-d2	4.013	63	67509	16.049	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	64.200%
21) 2-Butanone-d5	7.074	46	24583	55.272	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	110.540%
24) Chloroform-d	7.647	84	98415	20.384	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	81.520%
26) 1,2-Dichloroethane-d4	8.305	65	56037	21.820	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	87.280%
32) Benzene-d6	8.275	84	198929	21.598	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	86.400%
36) 1,2-Dichloropropane-d6	9.274	67	54801	22.185	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	88.760%
41) Toluene-d8	10.323	98	197848	21.024	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	84.080%
43) trans-1,3-Dichloroprop...	10.579	79	23717	20.853	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.400%
47) 2-Hexanone-d5	10.921	63	21400	58.587	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.180%
56) 1,1,2,2-Tetrachloroeth...	12.689	84	47147	22.203	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	88.800%
66) 1,2-Dichlorobenzene-d4	13.853	152	73000	19.779	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	79.120%
Target Compounds						
					Qvalue	
13) Acetone	4.123	43	14240	35.714	ug/L	93
14) Carbon disulfide	4.379	76	15509	2.797	ug/L	99
22) 2-Butanone	7.171	43	3568	6.852	ug/L	95
34) Trichloroethene	8.842	95	5055	1.967	ug/L #	5
35) Methylcyclohexane	9.335	83	3138	0.740	ug/L #	67
37) 1,2-Dichloropropane	9.268	63	6858	3.359	ug/L #	89
39) cis-1,3-Dichloropropene	10.037	75	1967	0.611	ug/L #	66
42) Toluene	10.390	91	14061	1.313	ug/L	89
45) 1,1,2-Trichloroethane	10.762	97	2609	1.561	ug/L #	30
51) Chlorobenzene	11.658	112	7991	1.115	ug/L	95
52) Ethylbenzene	11.731	91	264433	21.615	ug/L	93
53) m,p-Xylene	11.835	106	359922	72.929	ug/L	88
54) o-Xylene	12.164	106	85794	18.317	ug/L	98
55) Styrene	12.164	104	5685	0.713	ug/L #	1
60) Isopropylbenzene	12.463	105	62614	4.839	ug/L	97
61) 1,2,3-Trichloropropane	12.804	75	980	0.707	ug/L #	1
62) 1,3,5-Trimethylbenzene	12.938	105	304026	27.610	ug/L	95
63) 1,2,4-Trimethylbenzene	13.249	105	1115494	102.691	ug/L	94
64) 1,3-Dichlorobenzene	13.499	146	2939	0.482	ug/L #	57

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 Quant Title : SFAM01.0
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 Response via : Initial Calibration

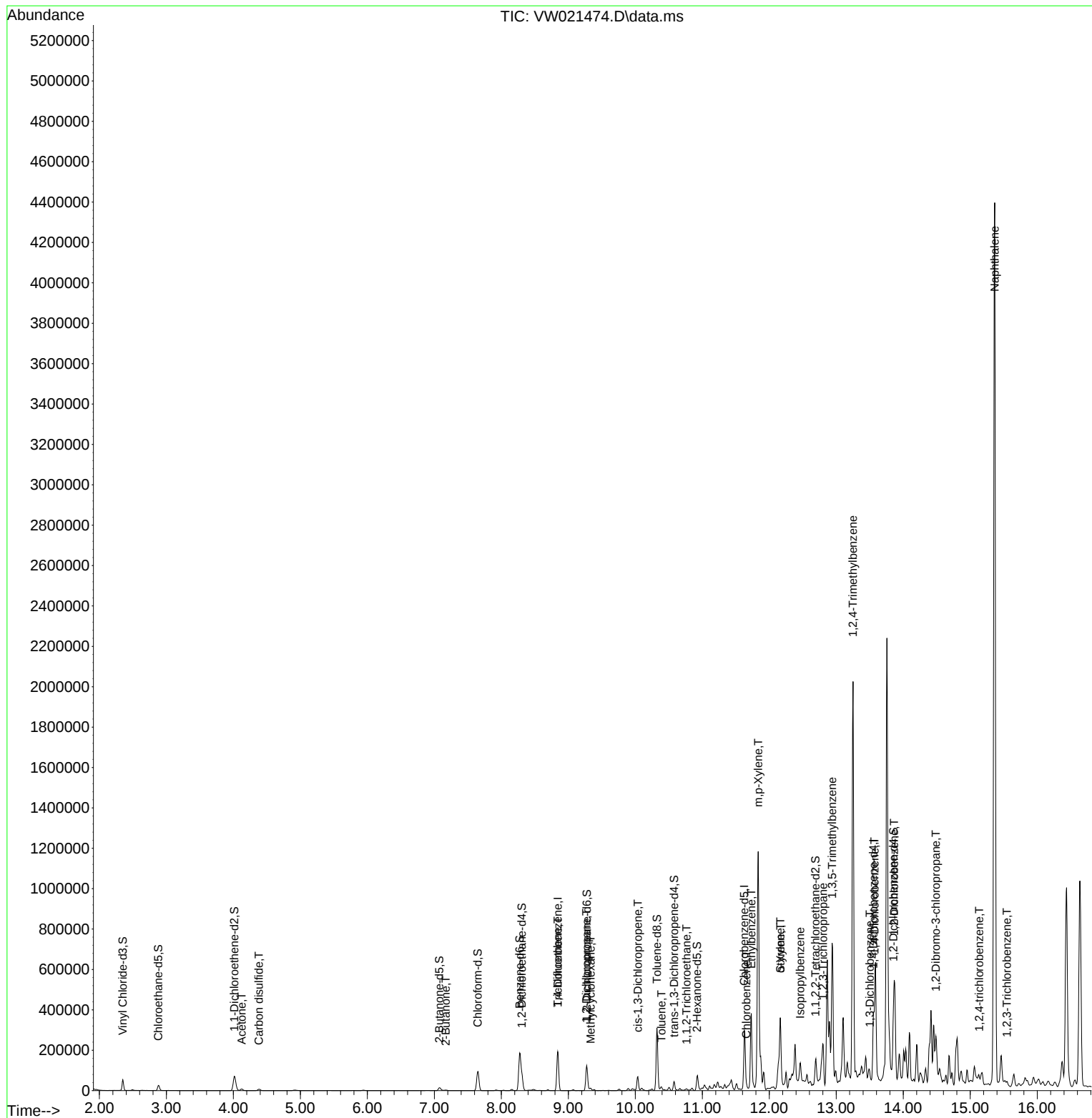
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	13.573	146	17780	2.932	ug/L #	87
67) 1,2-Dichlorobenzene	13.865	146	115043	21.409	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.487	75	5034	17.608	ug/L #	13
70) 1,2,4-trichlorobenzene	15.133	180	12358	3.368	ug/L #	69
71) Naphthalene	15.365	128	4010578	672.753	ug/L	99
72) 1,2,3-Trichlorobenzene	15.548	180	2389	0.788	ug/L #	82

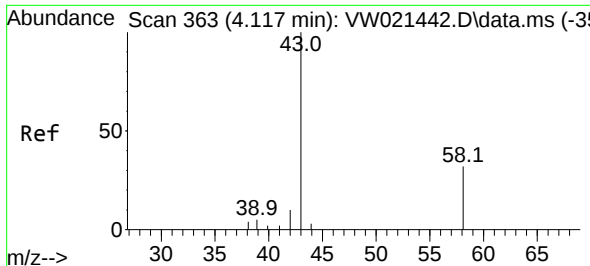
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 35.714 ug/L

RT: 4.123 min Scan# 3

Delta R.T. 0.006 min

Lab File: VW021474.D

Acq: 18 Dec 2021 14:18

Instrument :

MSVOA_W

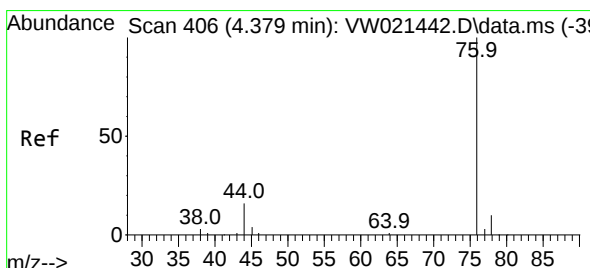
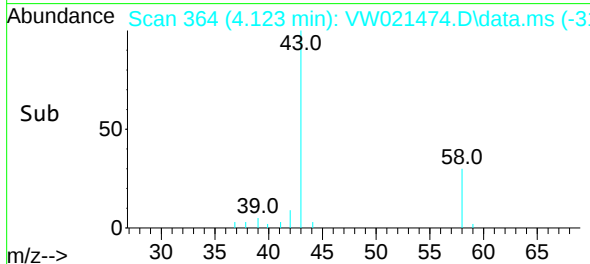
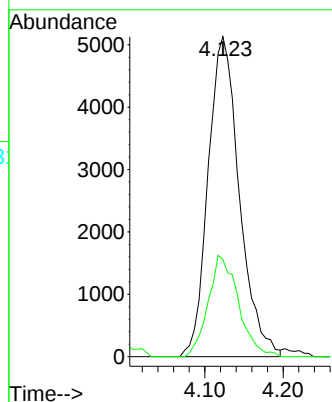
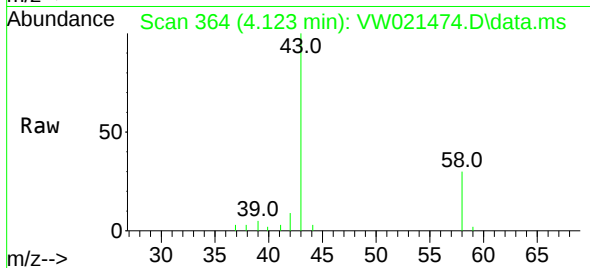
ClientSampleId :

Tgt Ion: 43 Resp: 14240

Ion Ratio Lower Upper

43 100

58 30.2 0.0 52.8



#14

Carbon disulfide

Concen: 2.797 ug/L

RT: 4.379 min Scan# 406

Delta R.T. 0.000 min

Lab File: VW021474.D

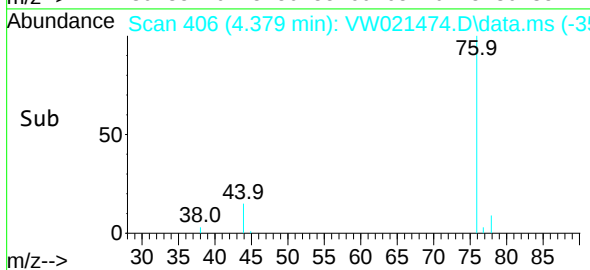
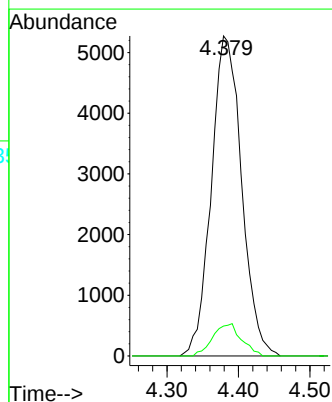
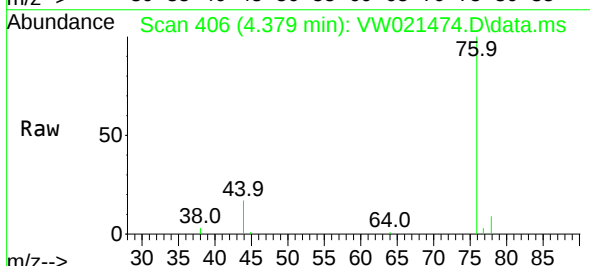
Acq: 18 Dec 2021 14:18

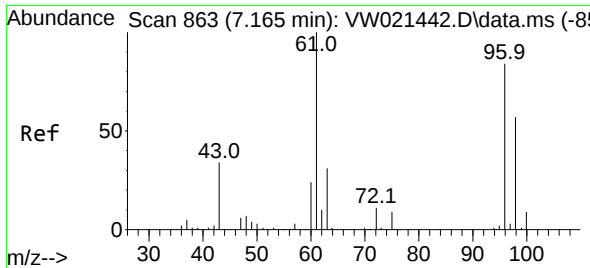
Tgt Ion: 76 Resp: 15509

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7

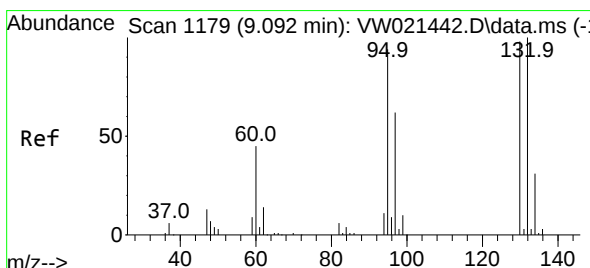
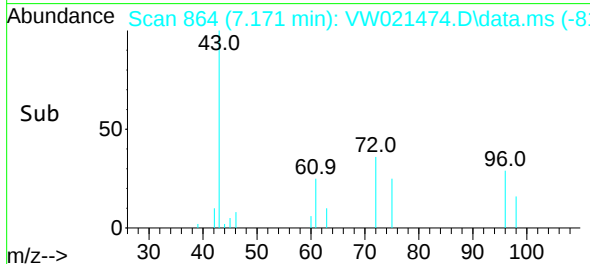
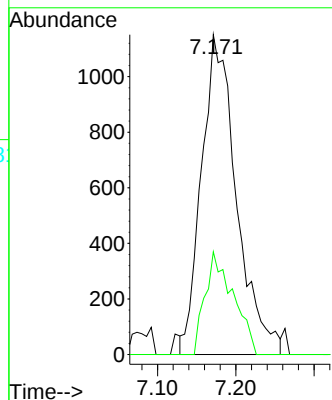
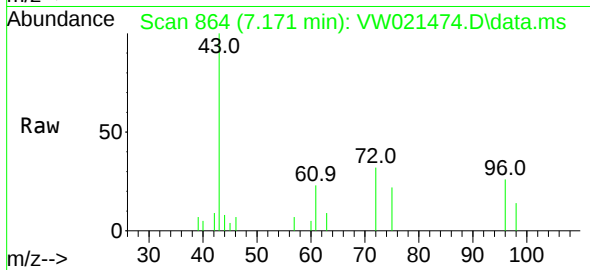




#22
2-Butanone
Concen: 6.852 ug/L
RT: 7.171 min Scan# 864
Delta R.T. 0.006 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

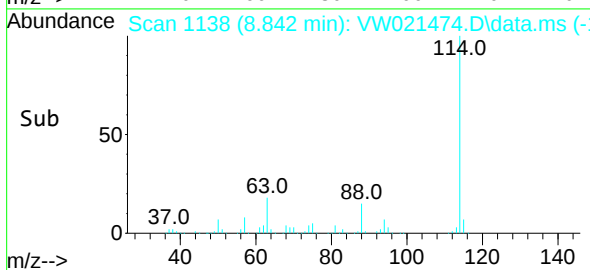
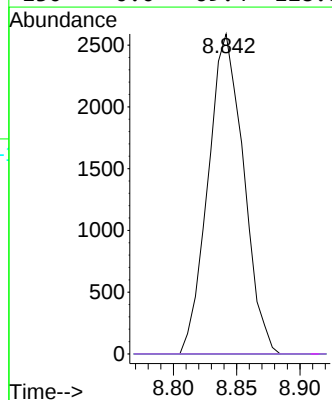
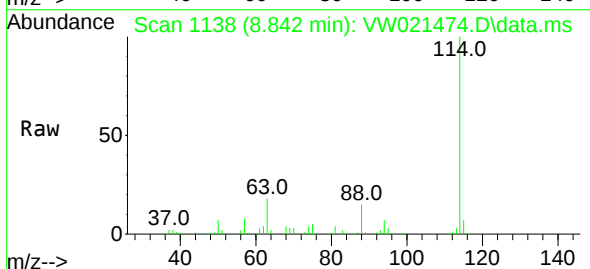
Instrument :
MSVOA_W
ClientSampleId :

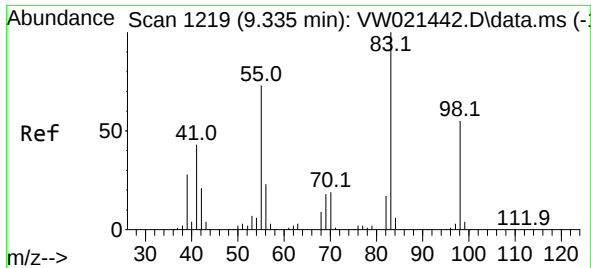
Tgt Ion: 43 Resp: 3568
Ion Ratio Lower Upper
43 100
72 25.8 11.8 35.4



#34
Trichloroethene
Concen: 1.967 ug/L
RT: 8.842 min Scan# 1138
Delta R.T. -0.250 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

Tgt Ion: 95 Resp: 5055
Ion Ratio Lower Upper
95 100
97 0.0 47.0 87.2#
132 0.0 65.5 121.6#
130 0.0 69.4 128.8#

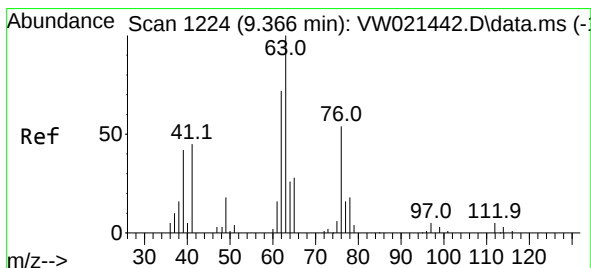
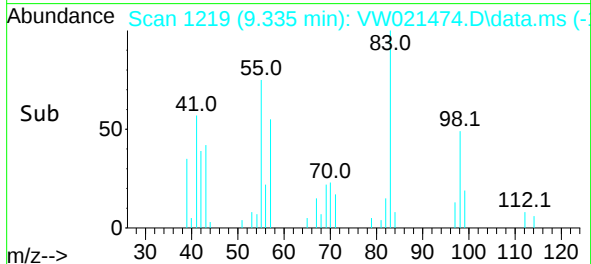
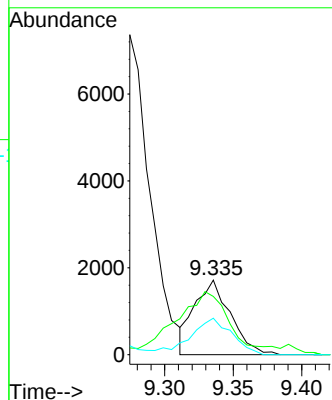
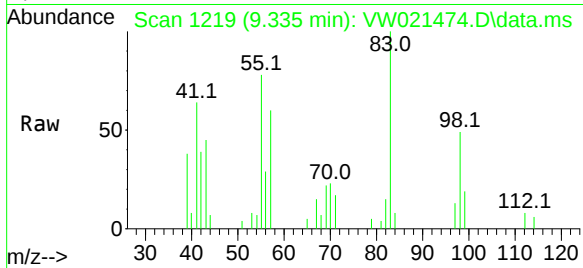




#35
Methylcyclohexane
Concen: 0.740 ug/L
RT: 9.335 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

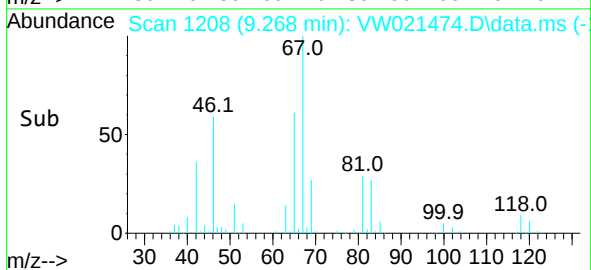
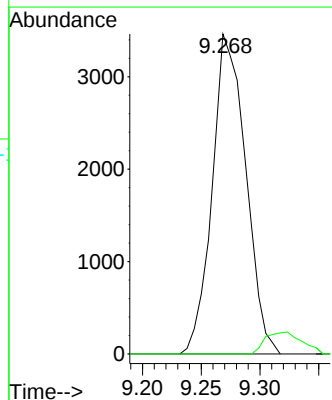
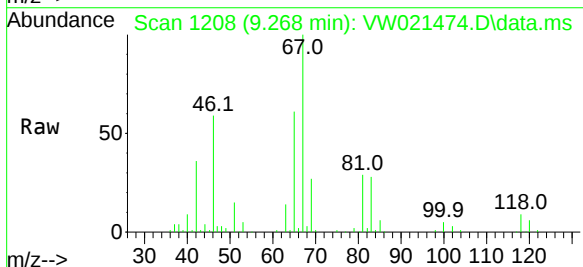
Instrument :
MSVOA_W
ClientSampleId :

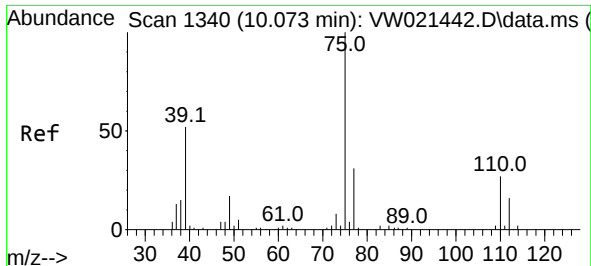
Tgt Ion: 83 Resp: 3138
Ion Ratio Lower Upper
83 100
55 128.8 70.8 106.2#
98 55.7 37.7 56.5



#37
1,2-Dichloropropane
Concen: 3.359 ug/L
RT: 9.268 min Scan# 1208
Delta R.T. -0.098 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

Tgt Ion: 63 Resp: 6858
Ion Ratio Lower Upper
63 100
112 7.6 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.611 ug/L

RT: 10.037 min Scan# 11

Delta R.T. -0.037 min

Lab File: VW021474.D

Acq: 18 Dec 2021 14:18

Instrument :

MSVOA_W

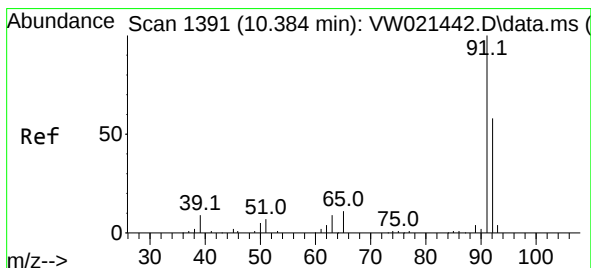
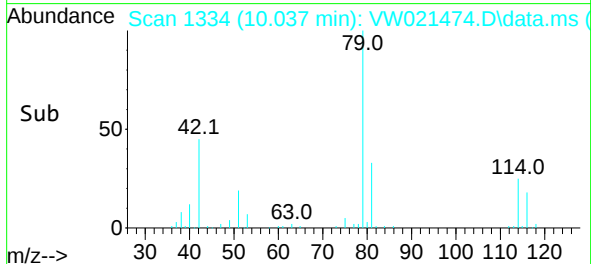
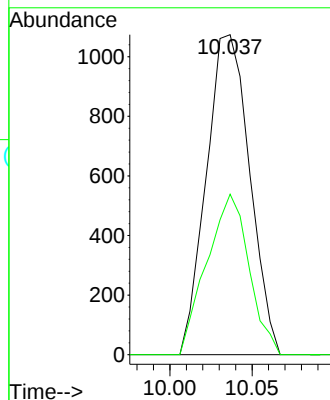
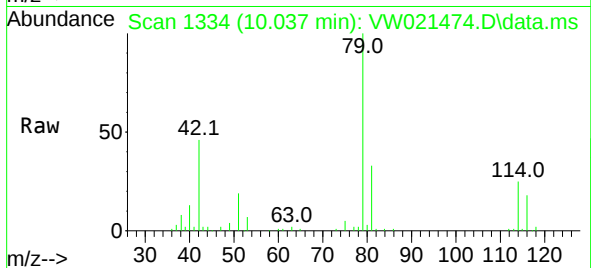
ClientSampleId :

Tgt Ion: 75 Resp: 1967

Ion Ratio Lower Upper

75 100

77 50.2 21.8 40.6#



#42

Toluene

Concen: 1.313 ug/L

RT: 10.390 min Scan# 1392

Delta R.T. 0.006 min

Lab File: VW021474.D

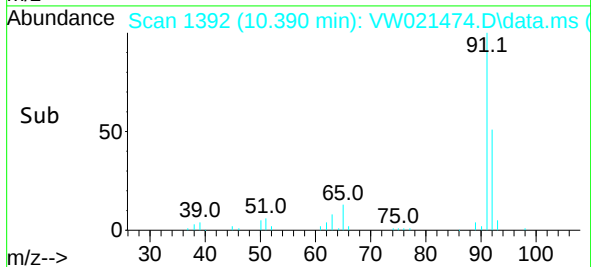
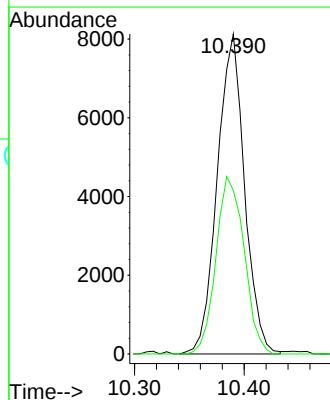
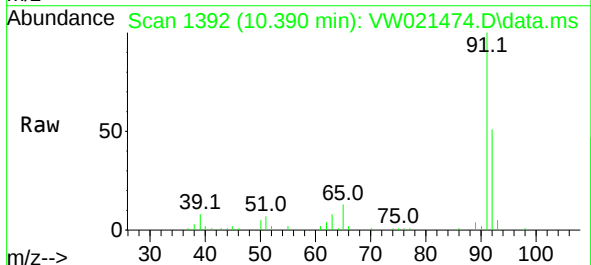
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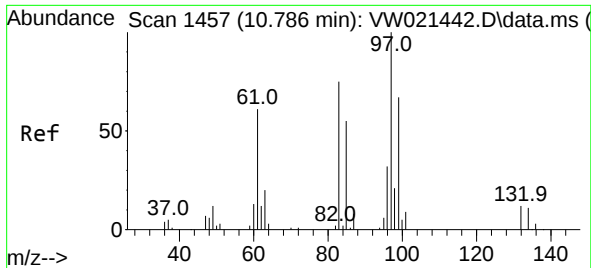
Tgt Ion: 91 Resp: 14061

Ion Ratio Lower Upper

91 100

92 51.1 41.7 77.5

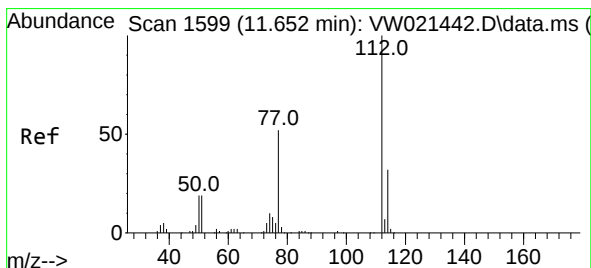
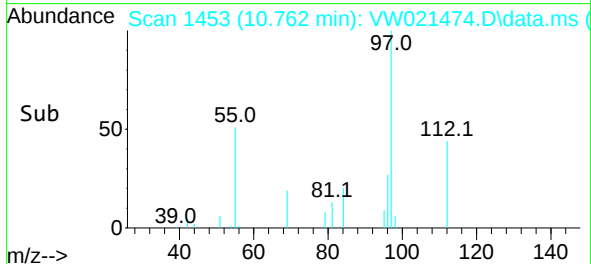
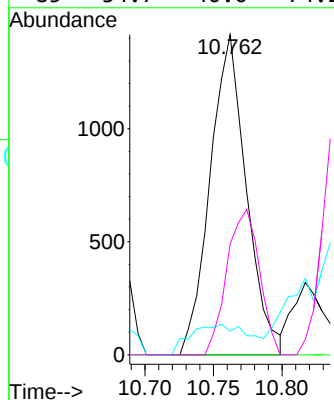
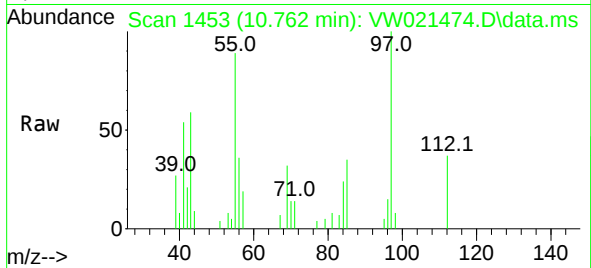




#45
1,1,2-Trichloroethane
Concen: 1.561 ug/L
RT: 10.762 min Scan# 14
Delta R.T. -0.024 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

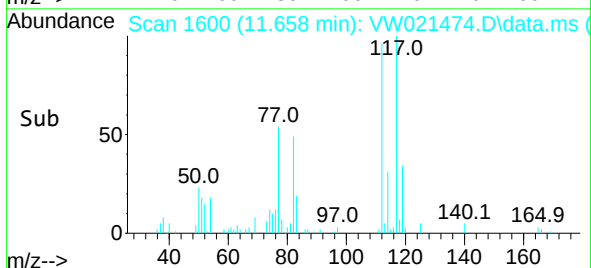
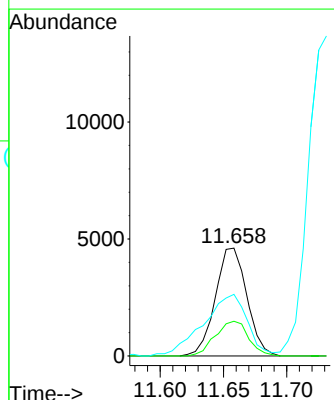
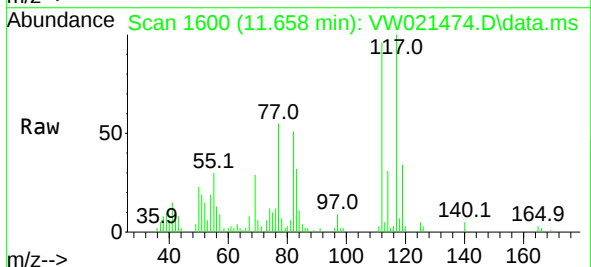
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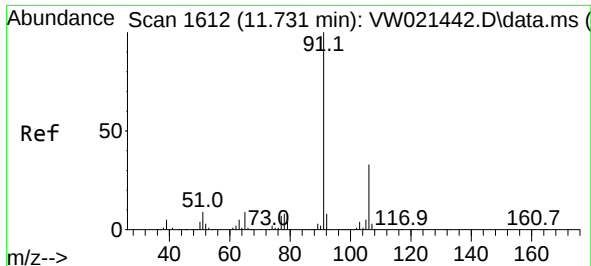
Tgt Ion: 97	Resp:	2609
Ion	Ratio	Lower Upper
97	100	
99	0.0	43.0 79.8#
83	7.3	62.6 116.3#
85	34.7	40.0 74.2#



#51
Chlorobenzene
Concen: 1.115 ug/L
RT: 11.658 min Scan# 1600
Delta R.T. 0.006 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

Tgt Ion: 112	Resp:	7991
Ion	Ratio	Lower Upper
112	100	
114	32.1	22.4 41.6
77	57.1	50.2 75.4





#52

Ethylbenzene

Concen: 21.615 ug/L

RT: 11.731 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021474.D

Acq: 18 Dec 2021 14:18

Instrument :

MSVOA_W

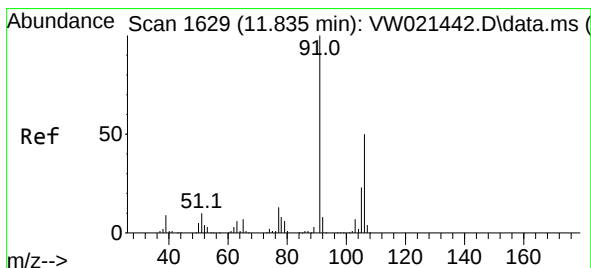
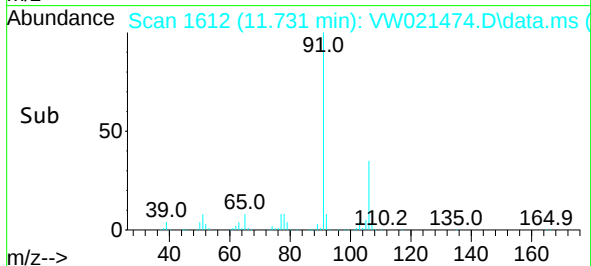
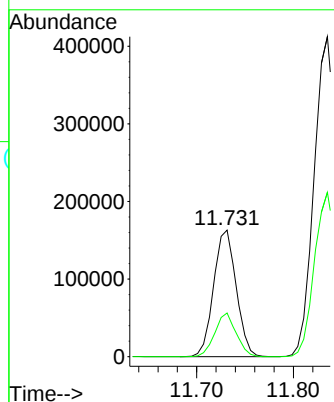
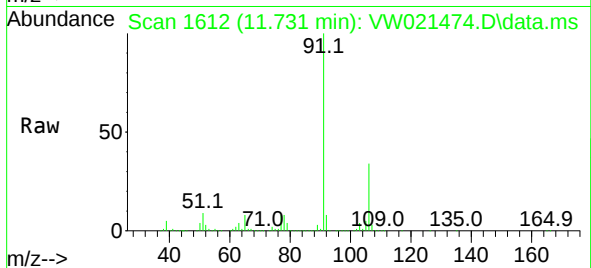
ClientSampleId :

Tgt Ion: 91 Resp: 264433

Ion Ratio Lower Upper

91 100

106 34.5 21.5 39.9



#53

m,p-Xylene

Concen: 72.929 ug/L

RT: 11.835 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VW021474.D

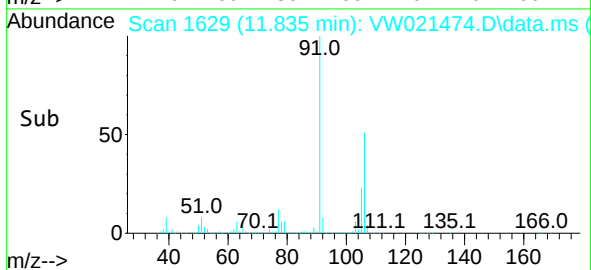
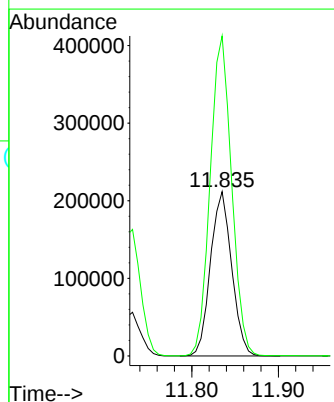
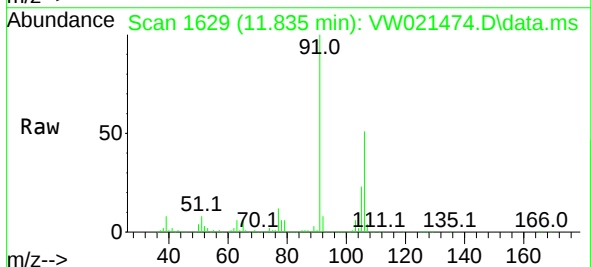
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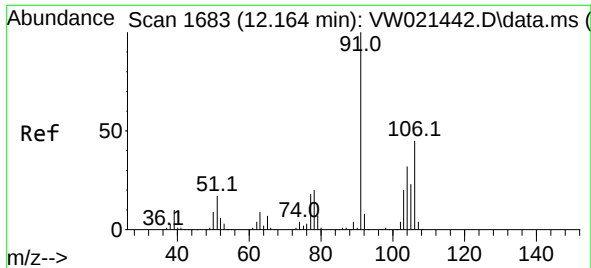
Tgt Ion:106 Resp: 359922

Ion Ratio Lower Upper

106 100

91 194.7 149.9 278.3

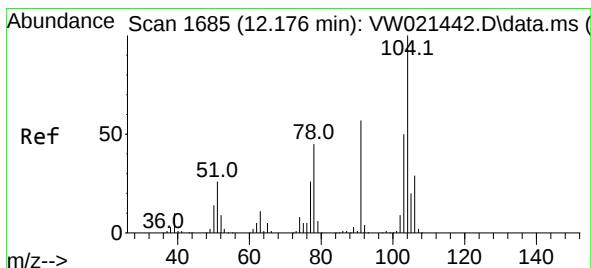
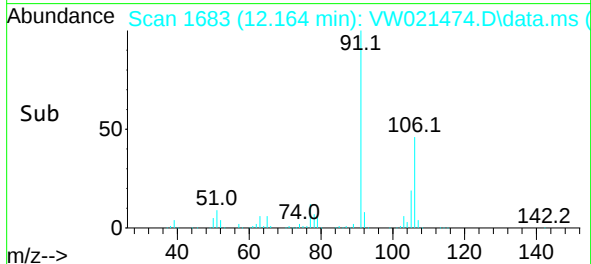
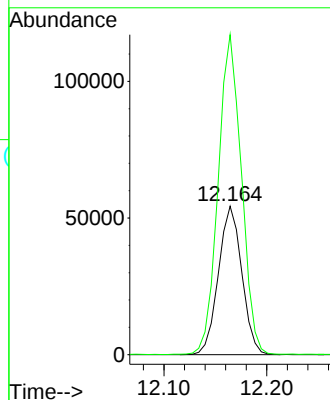
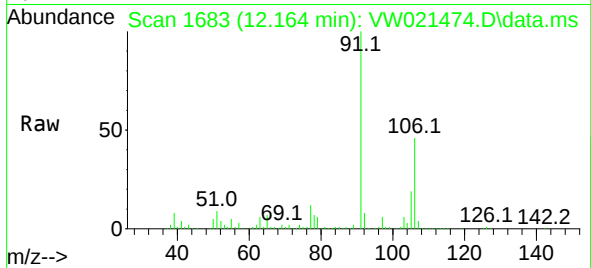




#54
o-Xylene
Concen: 18.317 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

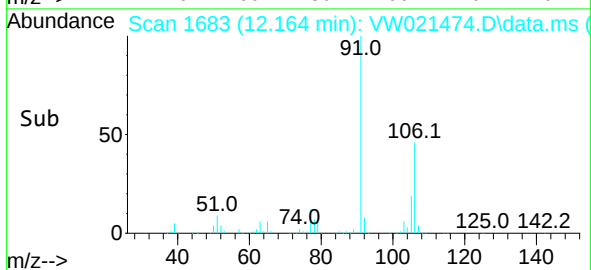
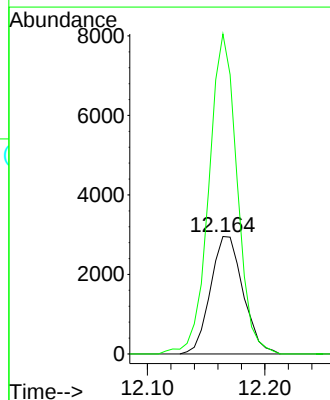
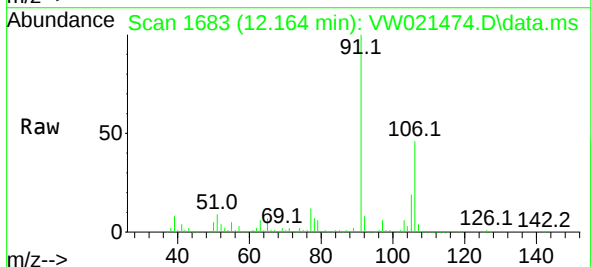
Instrument :
MSVOA_W
ClientSampleId :

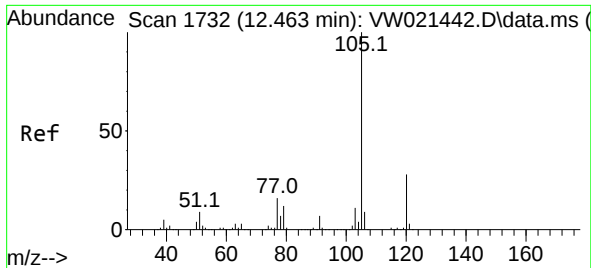
Tgt Ion:106 Resp: 85794
Ion Ratio Lower Upper
106 100
91 215.6 153.6 285.3



#55
Styrene
Concen: 0.713 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.012 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

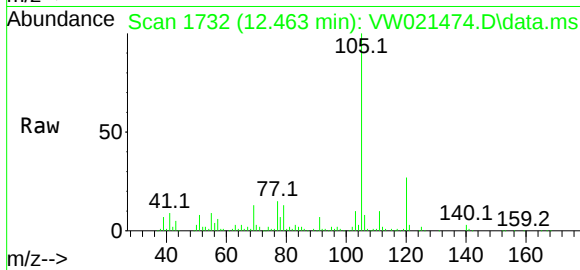
Tgt Ion:104 Resp: 5685
Ion Ratio Lower Upper
104 100
78 272.6 34.4 64.0#



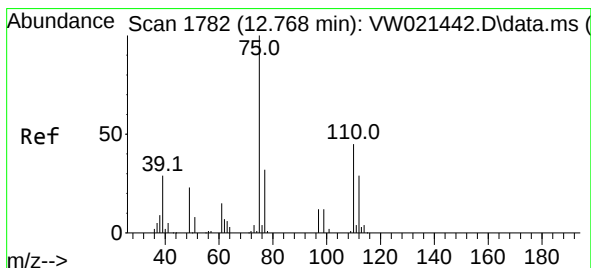
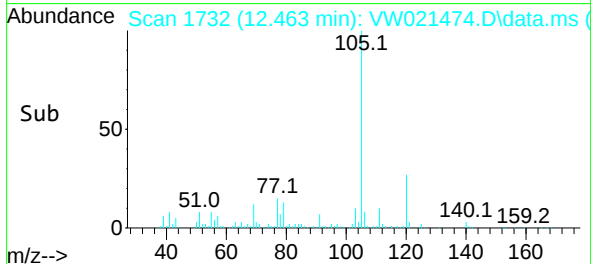
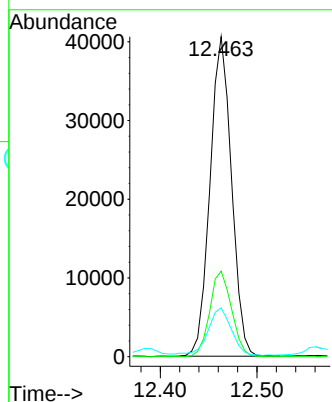


#60
Isopropylbenzene
Concen: 4.839 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. 0.000 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

Instrument :
MSVOA_W
ClientSampleId :

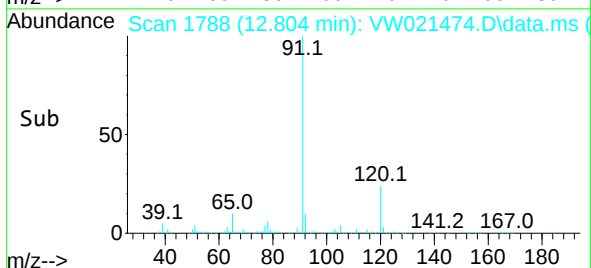
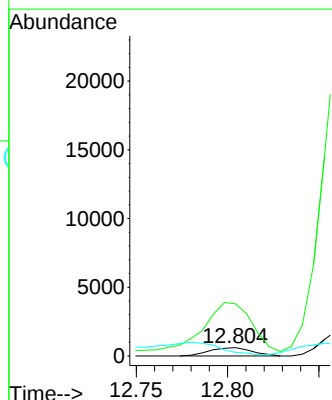
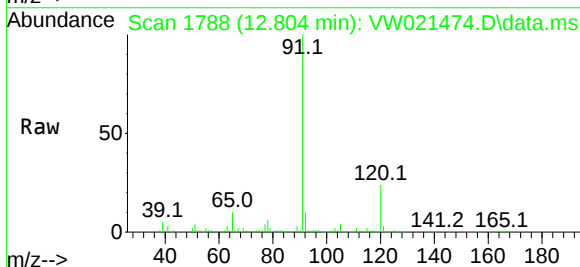


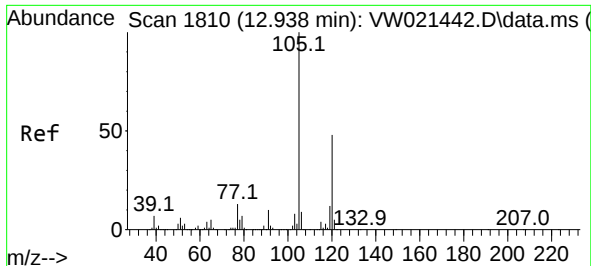
Tgt Ion:	105	Resp:	62614
Ion Ratio	Lower	Upper	
105	100		
120	27.2	20.1	30.1
77	16.2	13.8	20.8



#61
1,2,3-Trichloropropane
Concen: 0.707 ug/L
RT: 12.804 min Scan# 1788
Delta R.T. 0.037 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

Tgt Ion:	75	Resp:	980
Ion Ratio	Lower	Upper	
75	100		
77	656.6	25.8	38.8#
110	194.7	29.0	43.4#





#62

1,3,5-Trimethylbenzene

Concen: 27.610 ug/L

RT: 12.938 min Scan# 1810

Delta R.T. 0.000 min

Lab File: VW021474.D

Acq: 18 Dec 2021 14:18

Instrument :

MSVOA_W

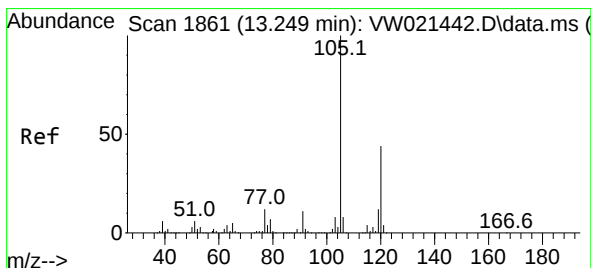
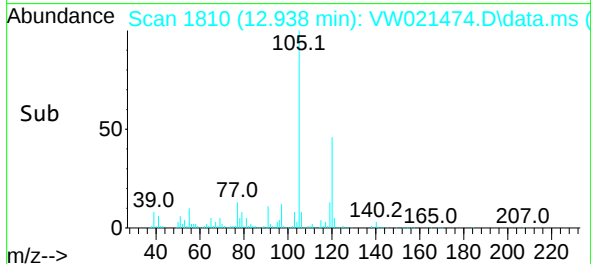
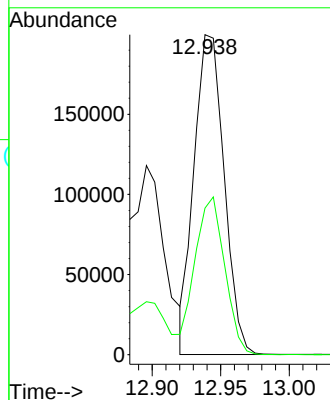
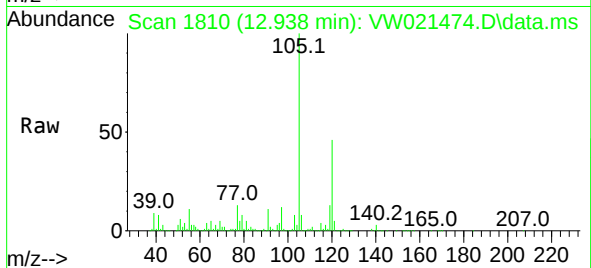
ClientSampleId :

Tgt Ion:105 Resp: 304026

Ion Ratio Lower Upper

105 100

120 50.3 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 102.691 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. 0.000 min

Lab File: VW021474.D

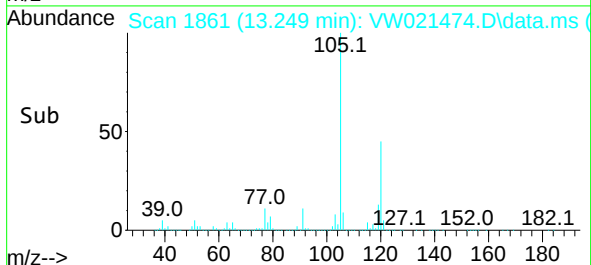
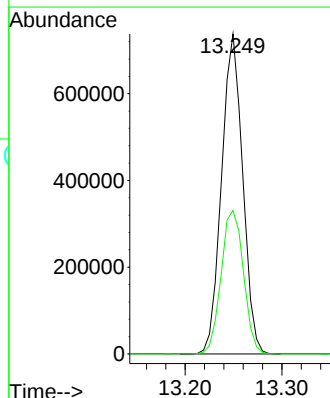
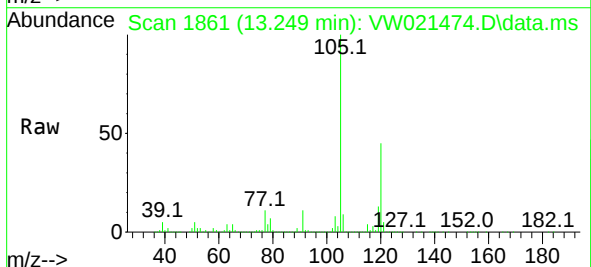
Acq: 18 Dec 2021 14:18

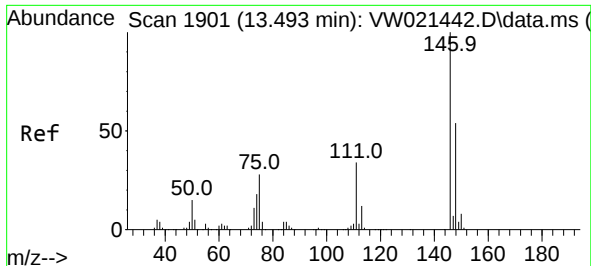
Tgt Ion:105 Resp: 1115494

Ion Ratio Lower Upper

105 100

120 47.6 35.0 52.6

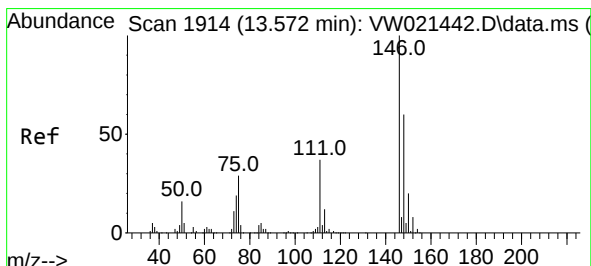
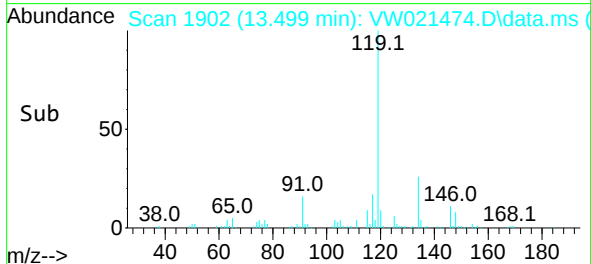
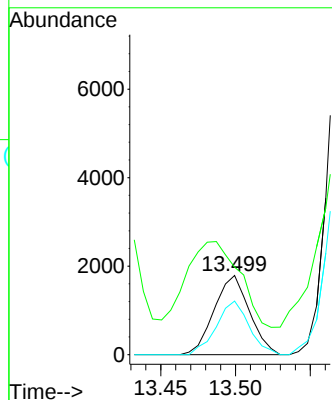
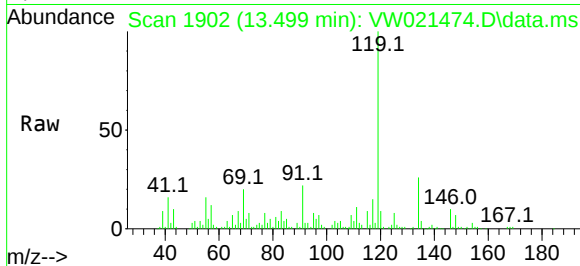




#64
1,3-Dichlorobenzene
Concen: 0.482 ug/L
RT: 13.499 min Scan# 1901
Delta R.T. 0.006 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

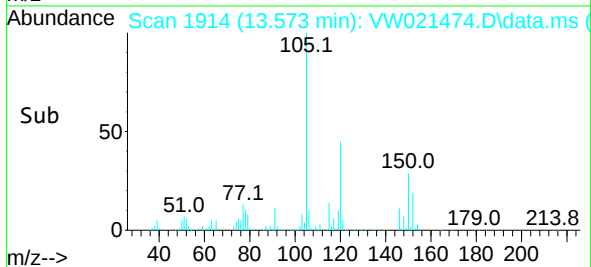
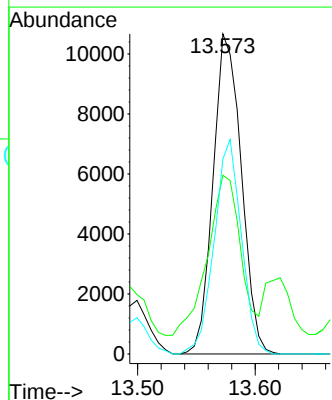
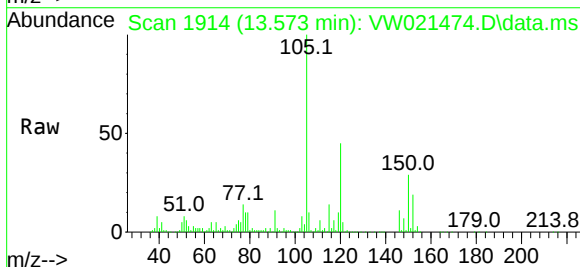
Instrument :
MSVOA_W
ClientSampleId :

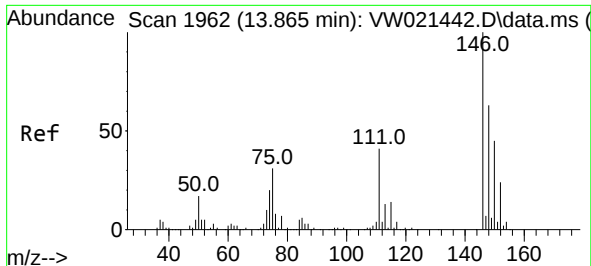
Tgt Ion:146 Resp: 2939
Ion Ratio Lower Upper
146 100
111 110.6 29.8 55.3#
148 67.7 46.2 85.8



#65
1,4-Dichlorobenzene
Concen: 2.932 ug/L
RT: 13.573 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

Tgt Ion:146 Resp: 17780
Ion Ratio Lower Upper
146 100
111 55.9 29.0 53.9#
148 60.9 46.9 87.1





#67

1,2-Dichlorobenzene

Concen: 21.409 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. 0.000 min

Lab File: VW021474.D

Acq: 18 Dec 2021 14:18

Instrument :

MSVOA_W

ClientSampleId :

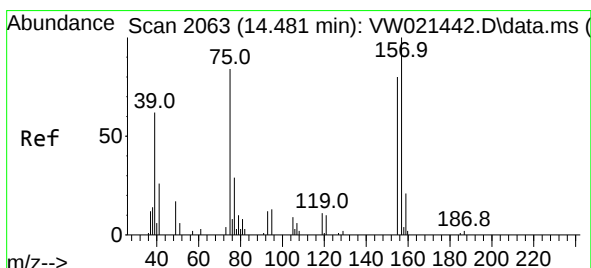
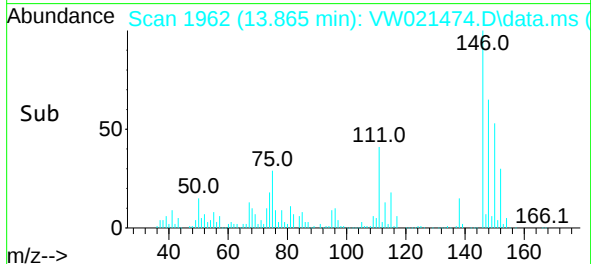
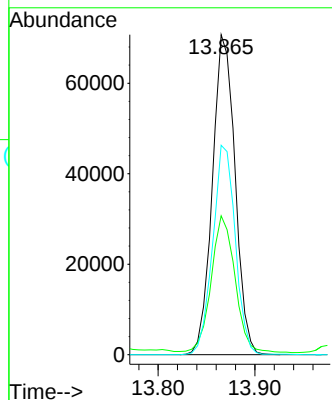
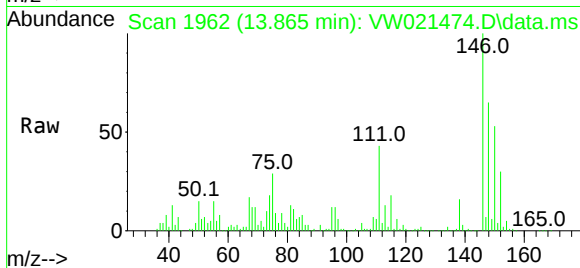
Tgt Ion:146 Resp: 115043

Ion Ratio Lower Upper

146 100

111 43.4 33.1 49.7

148 65.5 47.4 71.2



#68

1,2-Dibromo-3-chloropropane

Concen: 17.608 ug/L

RT: 14.487 min Scan# 2064

Delta R.T. 0.006 min

Lab File: VW021474.D

Acq: 18 Dec 2021 14:18

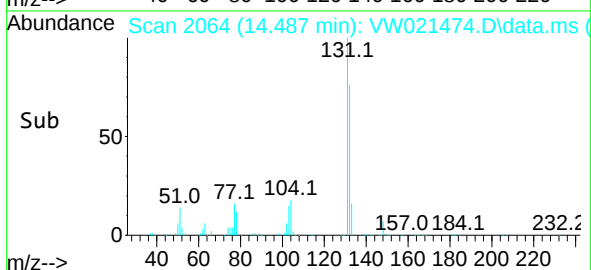
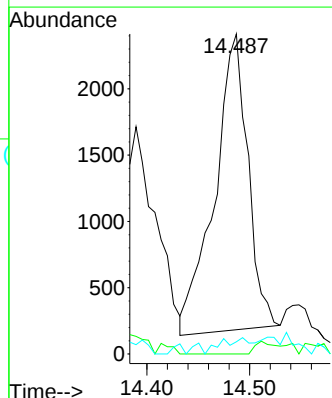
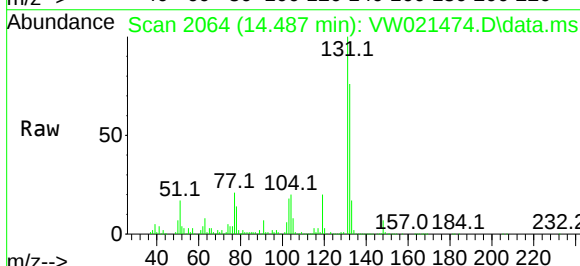
Tgt Ion: 75 Resp: 5034

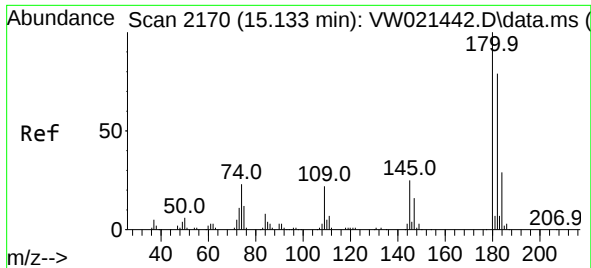
Ion Ratio Lower Upper

75 100

155 0.0 54.2 81.2#

157 3.8 69.4 104.2#

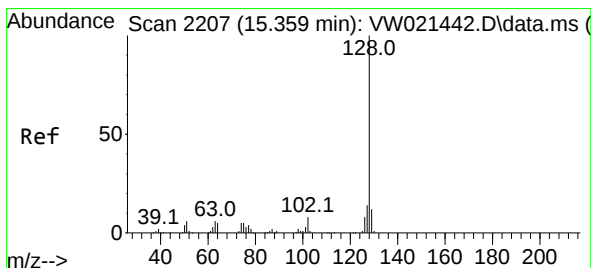
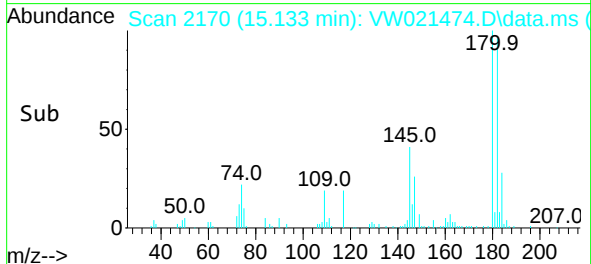
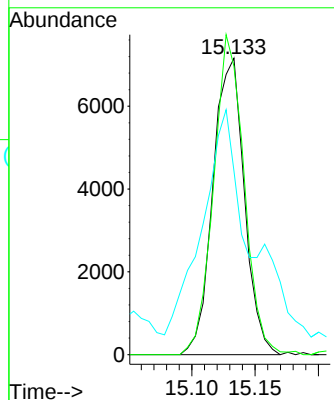
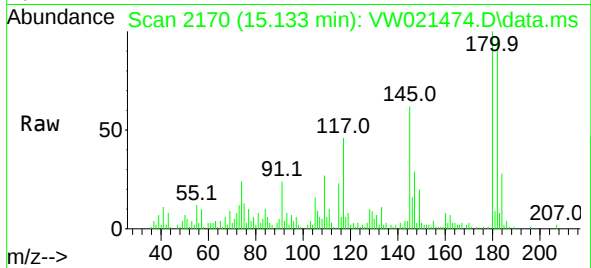




#70
1,2,4-trichlorobenzene
Concen: 3.368 ug/L
RT: 15.133 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

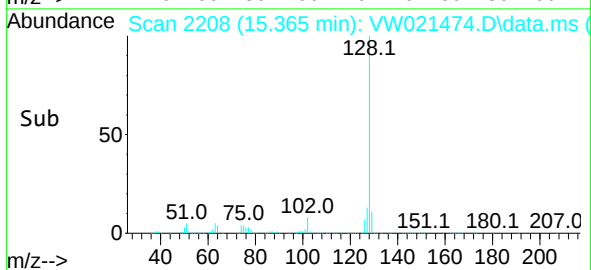
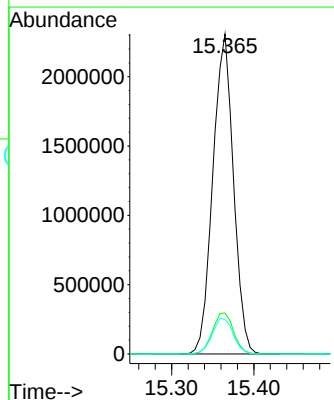
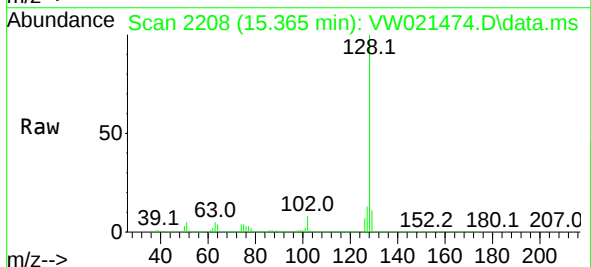
Instrument :
MSVOA_W
ClientSampleId :

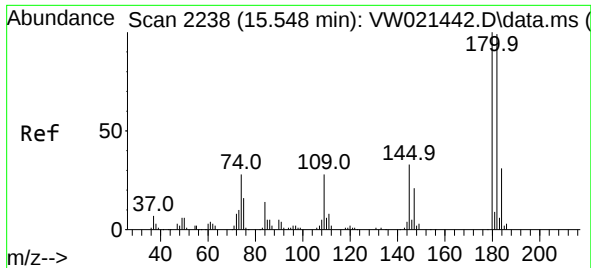
Tgt Ion:180 Resp: 12358
Ion Ratio Lower Upper
180 100
182 104.5 79.0 118.6
145 93.1 26.0 39.0#



#71
Naphthalene
Concen: 672.753 ug/L
RT: 15.365 min Scan# 2208
Delta R.T. 0.006 min
Lab File: VW021474.D
Acq: 18 Dec 2021 14:18

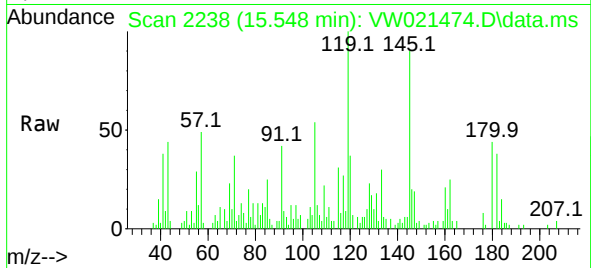
Tgt Ion:128 Resp: 4010578
Ion Ratio Lower Upper
128 100
127 13.2 10.7 16.1
129 11.4 8.6 12.8





#72
 1,2,3-Trichlorobenzene
 Concen: 0.788 ug/L
 RT: 15.548 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VW021474.D
 Acq: 18 Dec 2021 14:18

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.2	76.6	114.8
145	0.0	27.4	41.0

