

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW121821\
 Data File : VW021444.D
 Acq On : 18 Dec 2021 00:51
 Operator : SY/VA
 Sample : M5153-02
 Misc : 5.48g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 18 03:59:42 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	109814	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	113266	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	67373	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	27896	13.948	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	55.800%
7) Chloroethane-d5	2.885	69	19075	14.427	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	57.720%
11) 1,1-Dichloroethene-d2	4.013	63	33327	12.499	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	50.000%
21) 2-Butanone-d5	7.080	46	16914	59.996	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	120.000%
24) Chloroform-d	7.647	84	59078	19.305	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	77.200%
26) 1,2-Dichloroethane-d4	8.305	65	36053	22.148	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	88.600%
32) Benzene-d6	8.275	84	113829	18.334	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	73.320%
36) 1,2-Dichloropropane-d6	9.274	67	33228	19.956	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	79.840%
41) Toluene-d8	10.323	98	112350	17.711	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	70.840%
43) trans-1,3-Dichloroprop...	10.579	79	14111	18.406	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	73.640%
47) 2-Hexanone-d5	10.927	63	13715	55.703	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.400%
56) 1,1,2,2-Tetrachloroeth...	12.688	84	30930	21.609	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.440%
66) 1,2-Dichlorobenzene-d4	13.853	152	46408	17.773	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	71.080%#
Target Compounds						
					Qvalue	
13) Acetone	4.123	43	64077	253.536	ug/L	93
14) Carbon disulfide	4.385	76	12953	3.685	ug/L	97
22) 2-Butanone	7.177	43	6951	21.060	ug/L	90
33) Benzene	8.323	78	3523	0.571	ug/L	100
34) Trichloroethene	8.842	95	3542	2.045	ug/L #	5
35) Methylcyclohexane	9.335	83	2540	0.889	ug/L	97
37) 1,2-Dichloropropane	9.274	63	4240	3.081	ug/L #	91
39) cis-1,3-Dichloropropene	10.036	75	1212	0.559	ug/L #	70
40) 4-Methyl-2-pentanone	10.213	43	4056	5.409	ug/L #	95
42) Toluene	10.390	91	55323	7.666	ug/L	98
48) 2-Hexanone	10.933	43	5305	9.755	ug/L #	47
51) Chlorobenzene	11.658	112	271865	56.271	ug/L	91
52) Ethylbenzene	11.731	91	214880	26.057	ug/L	97
53) m,p-Xylene	11.835	106	160155	48.142	ug/L	89
54) o-Xylene	12.164	106	75936	24.052	ug/L	98
55) Styrene	12.164	104	6337	1.179	ug/L #	1
60) Isopropylbenzene	12.463	105	74001	8.083	ug/L	97
61) 1,2,3-Trichloropropane	12.804	75	745	0.760	ug/L #	1
62) 1,3,5-Trimethylbenzene	12.938	105	168859	21.676	ug/L	96

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

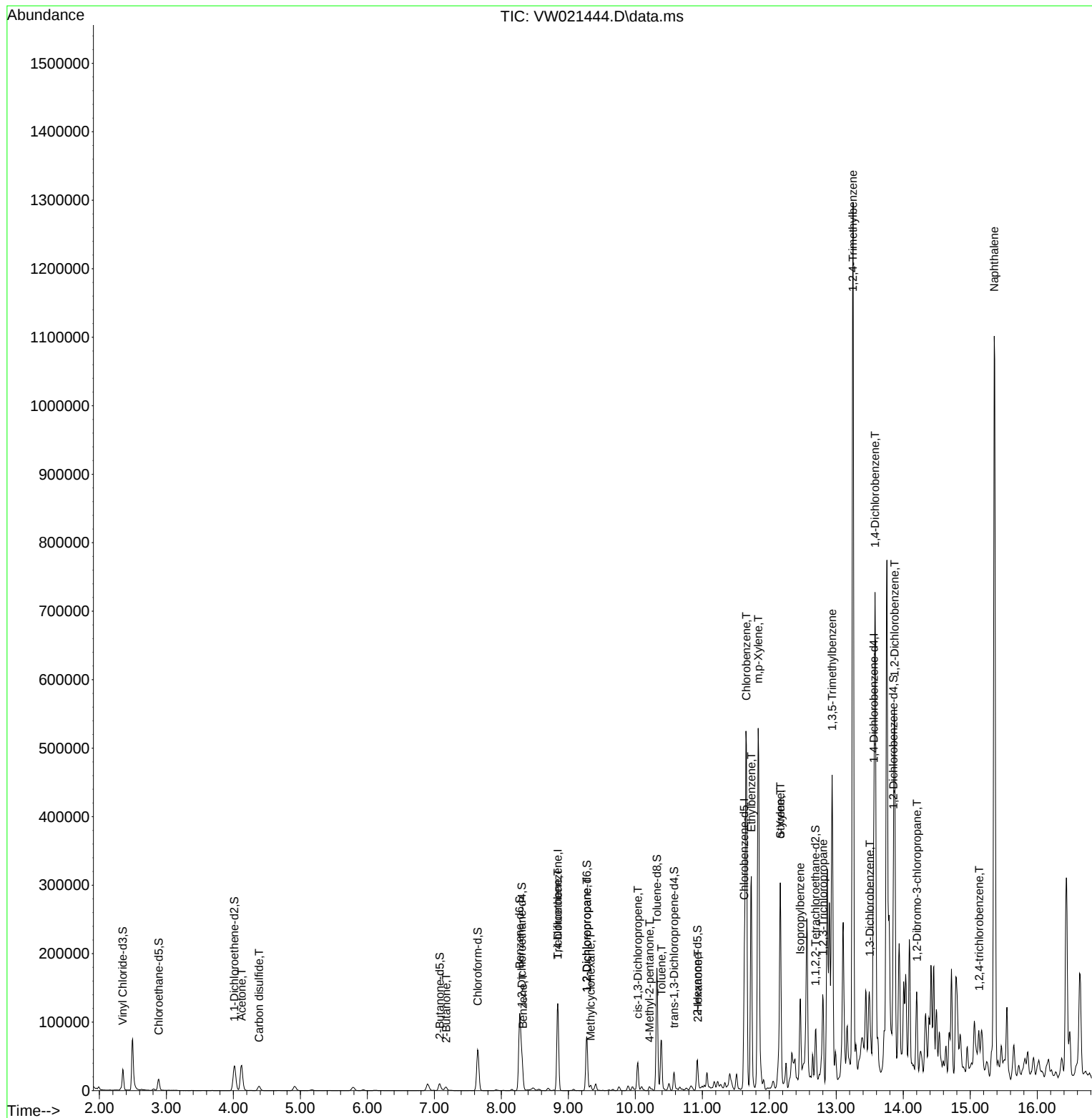
63) 1,2,4-Trimethylbenzene	13.249	105	714318	92.953	ug/L	97
64) 1,3-Dichlorobenzene	13.499	146	23585	5.462	ug/L	96
65) 1,4-Dichlorobenzene	13.579	146	150380	35.052	ug/L	94
67) 1,2-Dichlorobenzene	13.871	146	126515	33.280	ug/L	95
68) 1,2-Dibromo-3-chloropr...	14.206	75	1035	5.117	ug/L #	10
70) 1,2,4-trichlorobenzene	15.133	180	18092	6.969	ug/L #	82
71) Naphthalene	15.359	128	968363	229.611	ug/L	99

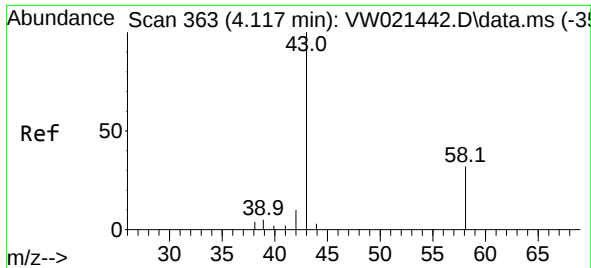
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 253.536 ug/L

RT: 4.123 min Scan# 3

Delta R.T. 0.006 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Instrument :

MSVOA_W

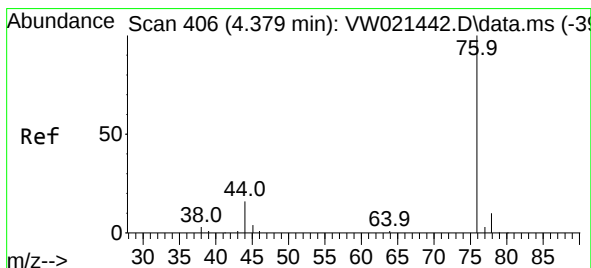
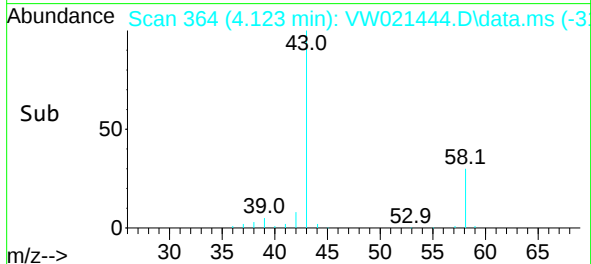
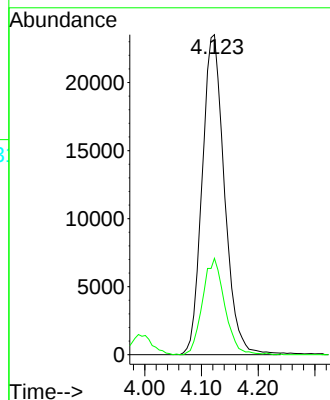
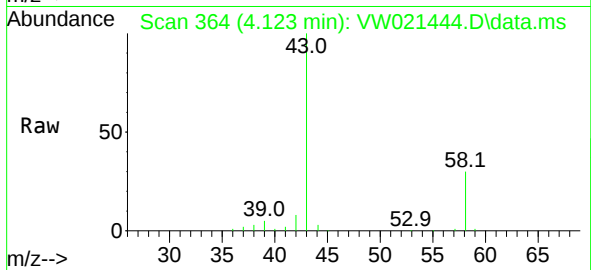
ClientSampleId :

Tgt Ion: 43 Resp: 64077

Ion Ratio Lower Upper

43 100

58 29.8 0.0 52.8



#14

Carbon disulfide

Concen: 3.685 ug/L

RT: 4.385 min Scan# 407

Delta R.T. 0.006 min

Lab File: VW021444.D

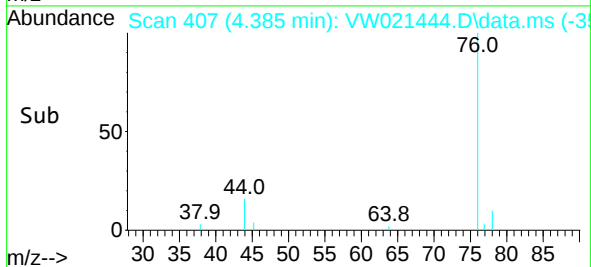
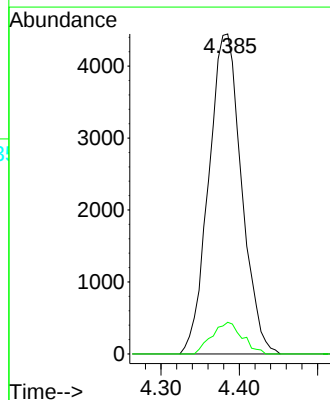
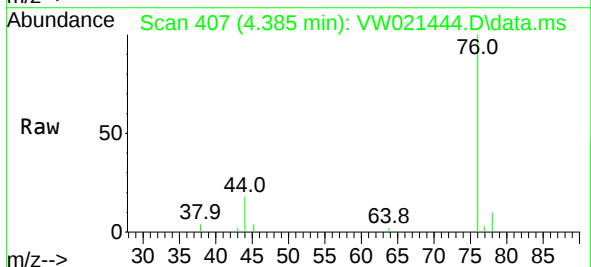
Acq: 18 Dec 2021 00:51

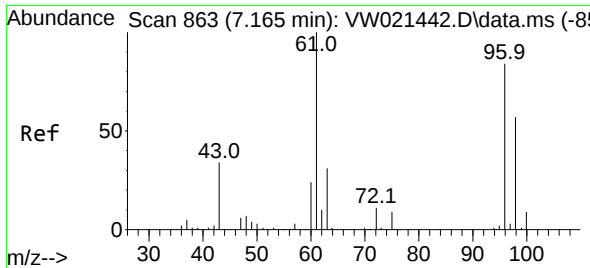
Tgt Ion: 76 Resp: 12953

Ion Ratio Lower Upper

76 100

78 9.9 7.1 10.7

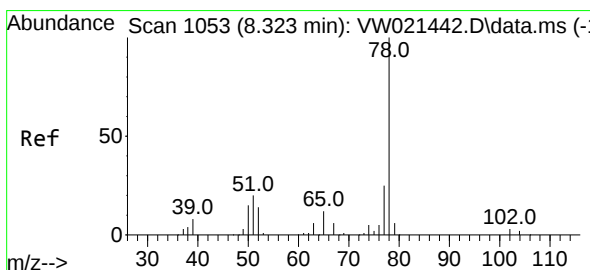
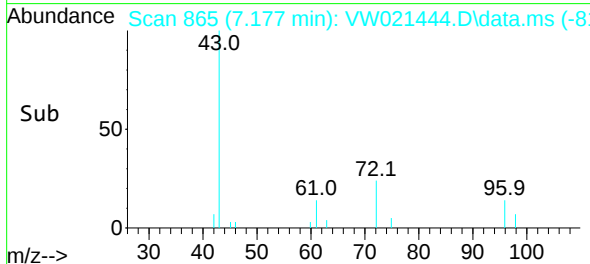
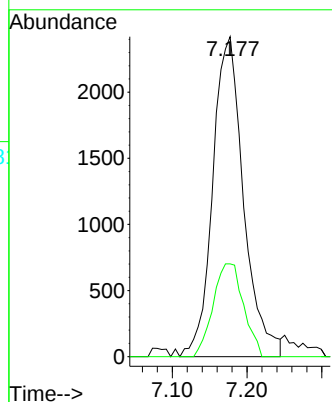
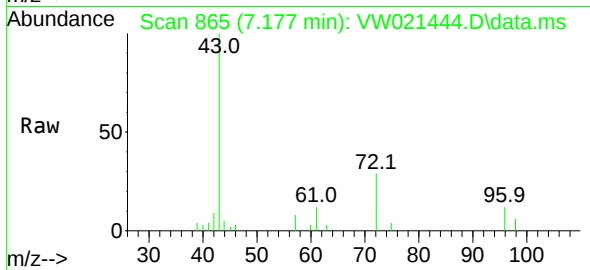




#22
2-Butanone
Concen: 21.060 ug/L
RT: 7.177 min Scan# 865
Delta R.T. 0.012 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

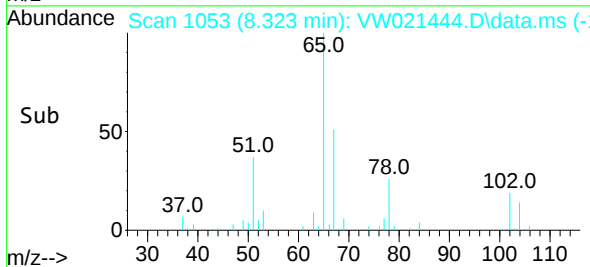
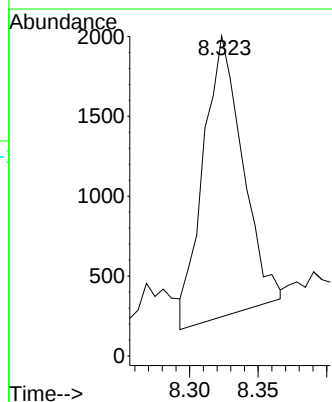
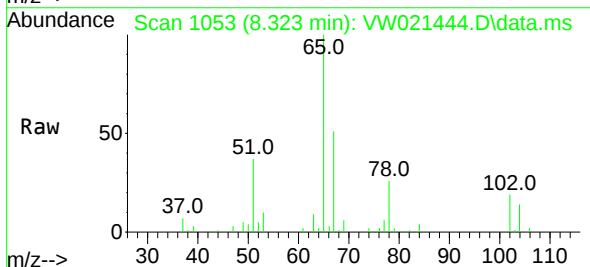
Instrument :
MSVOA_W
ClientSampleId :

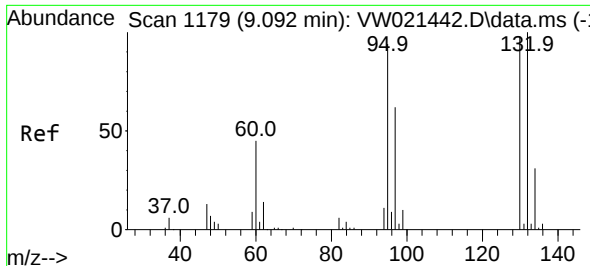
Tgt Ion: 43 Resp: 6951
Ion Ratio Lower Upper
43 100
72 28.6 11.8 35.4



#33
Benzene
Concen: 0.571 ug/L
RT: 8.323 min Scan# 1053
Delta R.T. -0.000 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

Tgt Ion: 78 Resp: 3523





#34

Trichloroethene

Concen: 2.045 ug/L

RT: 8.842 min Scan# 1179

Delta R.T. -0.250 min

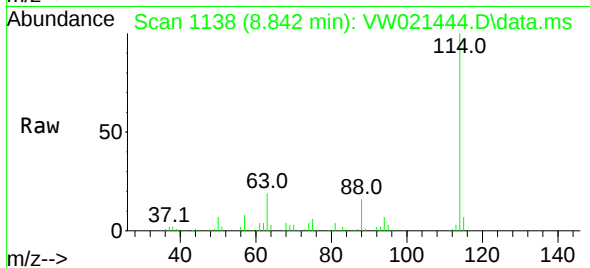
Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Instrument :

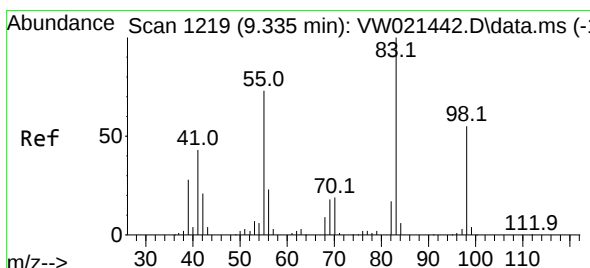
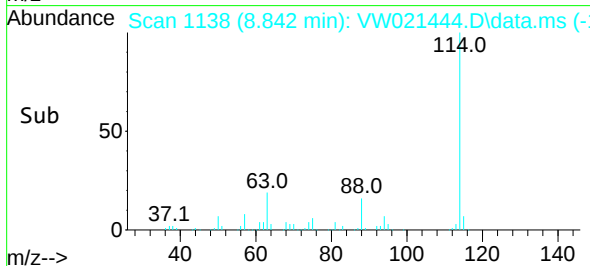
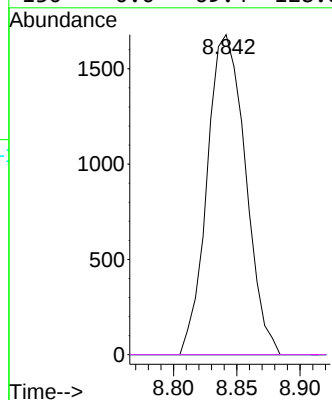
MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 3542

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: 0.889 ug/L

RT: 9.335 min Scan# 1219

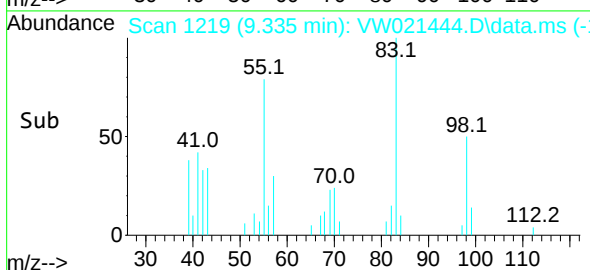
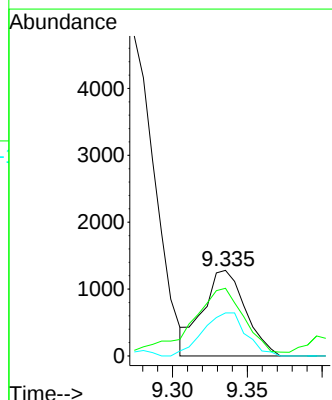
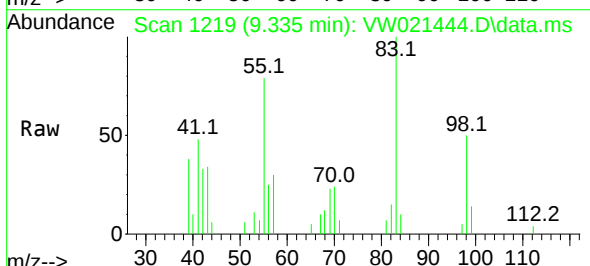
Delta R.T. -0.000 min

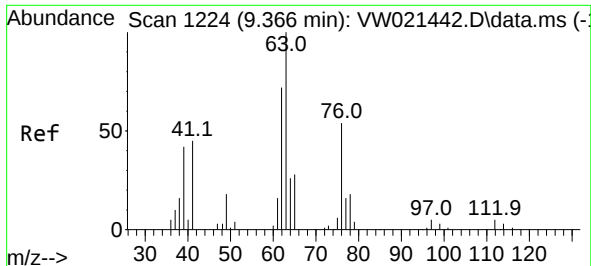
Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Tgt Ion: 83 Resp: 2540

Ion	Ratio	Lower	Upper
83	100		
55	89.4	70.8	106.2
98	50.8	37.7	56.5





#37

1,2-Dichloropropane

Concen: 3.081 ug/L

RT: 9.274 min Scan# 11

Delta R.T. -0.091 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Instrument :

MSVOA_W

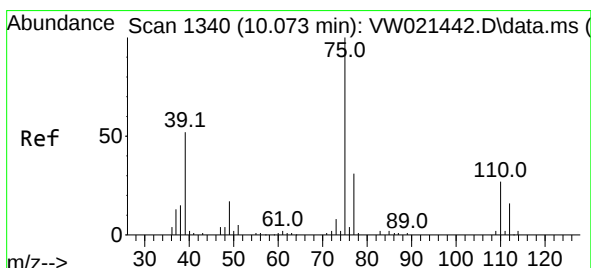
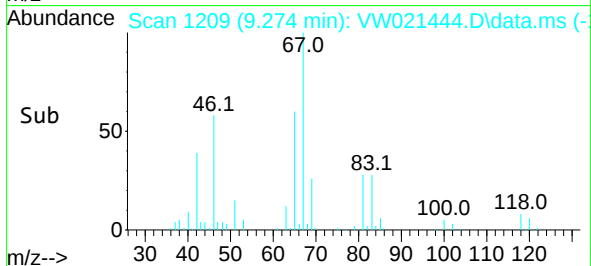
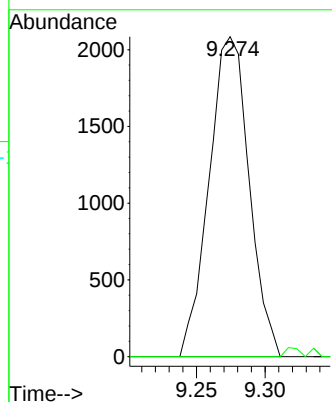
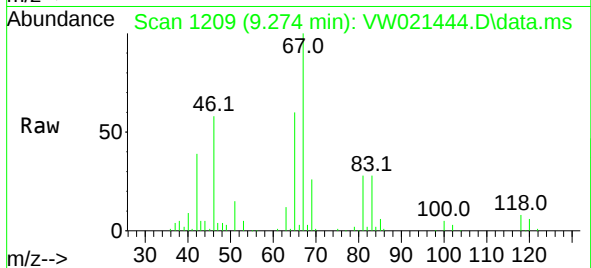
ClientSampleId :

Tgt Ion: 63 Resp: 4240

Ion Ratio Lower Upper

63 100

112 1.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.559 ug/L

RT: 10.036 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW021444.D

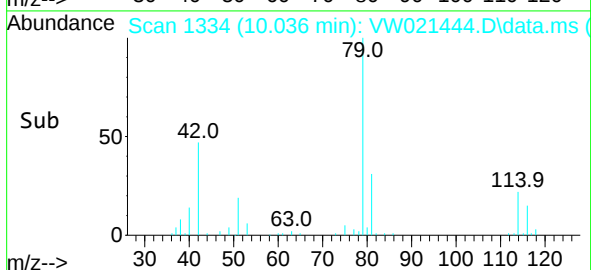
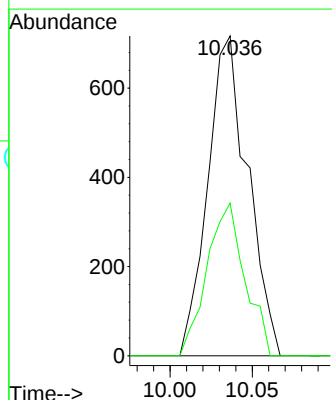
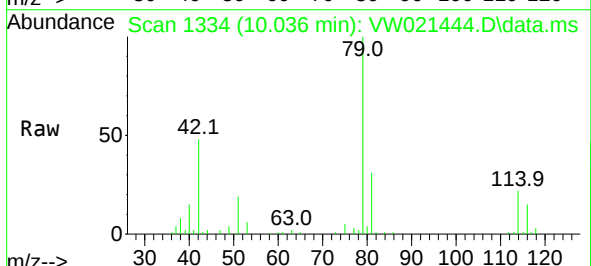
Acq: 18 Dec 2021 00:51

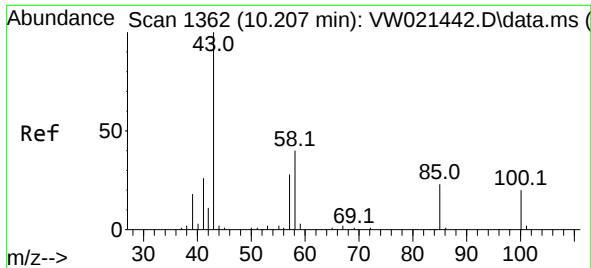
Tgt Ion: 75 Resp: 1212

Ion Ratio Lower Upper

75 100

77 47.7 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 5.409 ug/L

RT: 10.213 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW021444.D

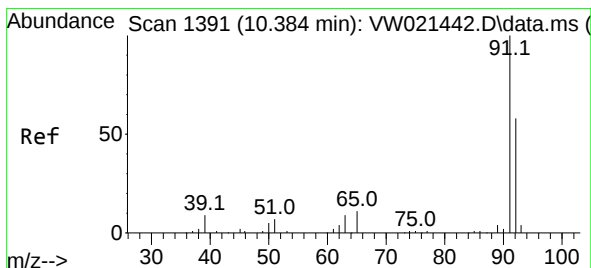
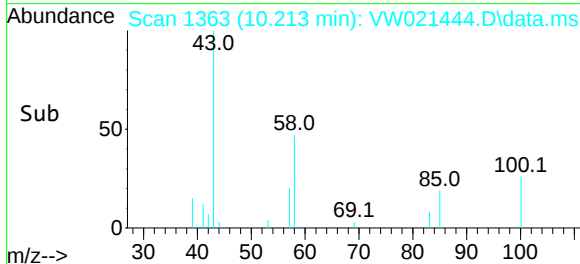
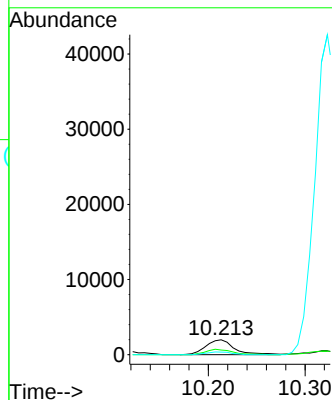
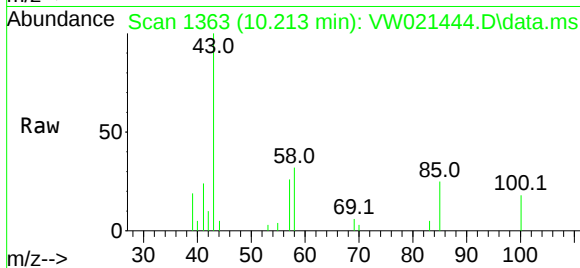
Acq: 18 Dec 2021 00:51

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	43	Resp:	4056
Ion	Ratio	Lower	Upper
43	100		
58	33.7	28.8	43.2
100	16.0	10.0	15.0



#42

Toluene

Concen: 7.666 ug/L

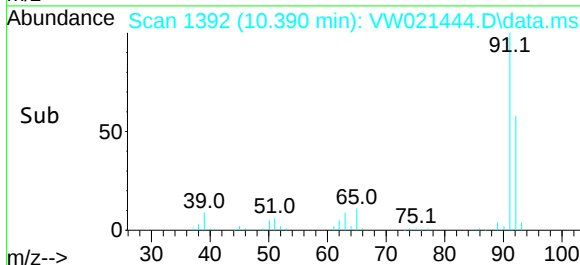
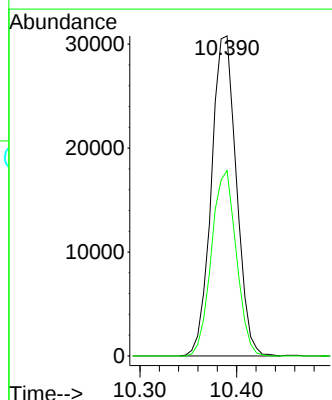
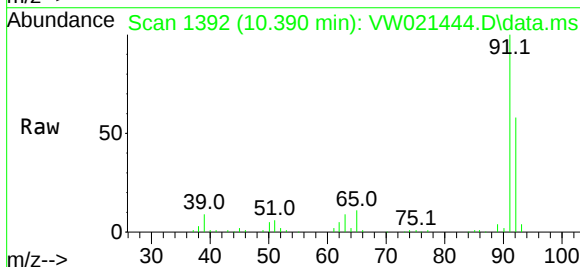
RT: 10.390 min Scan# 1392

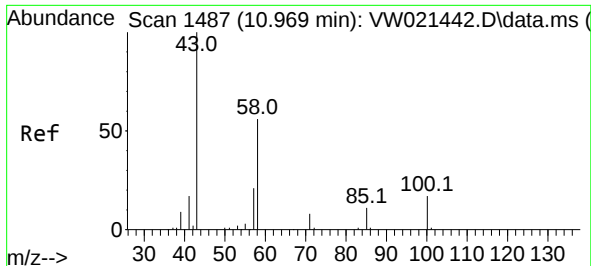
Delta R.T. 0.006 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Tgt Ion:	91	Resp:	55323
Ion	Ratio	Lower	Upper
91	100		
92	57.9	41.7	77.5





#48

2-Hexanone

Concen: 9.755 ug/L

RT: 10.933 min Scan# 14

Delta R.T. -0.037 min

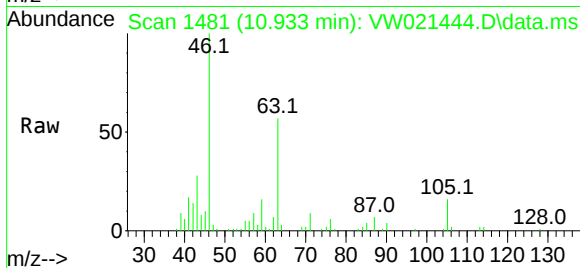
Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

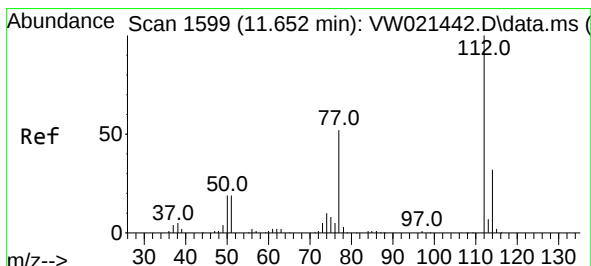
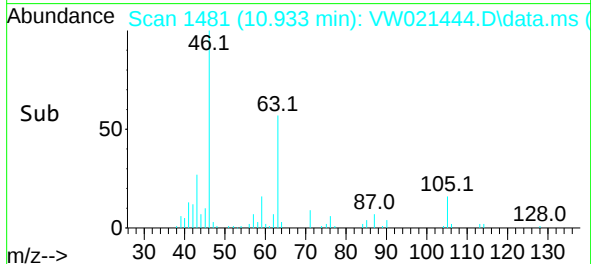
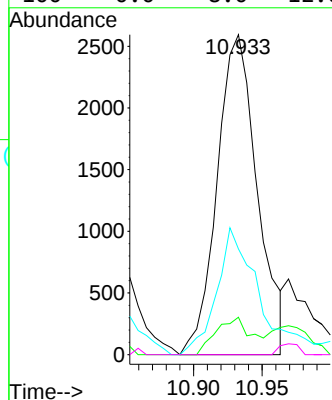
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	43	Resp:	5305
Ion Ratio	100	Lower	Upper
43	100		
58	10.4	40.2	60.2#
57	41.6	14.3	21.5#
100	0.0	8.0	12.0#



#51

Chlorobenzene

Concen: 56.271 ug/L

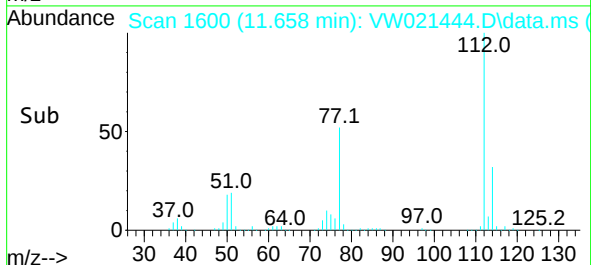
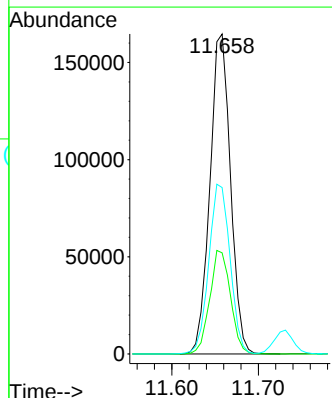
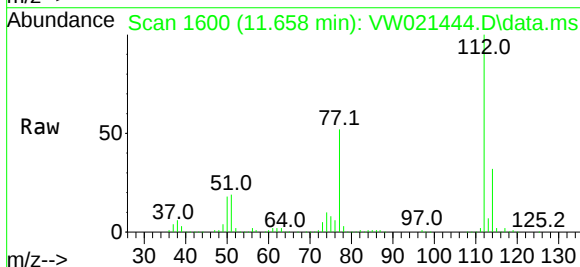
RT: 11.658 min Scan# 1600

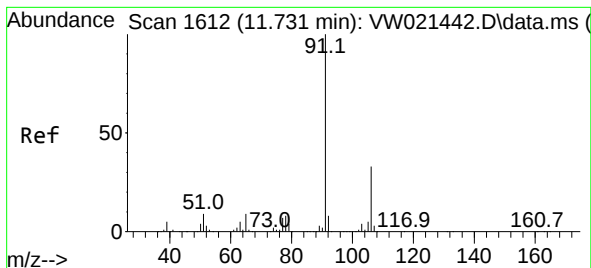
Delta R.T. 0.006 min

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Acq: 18 Dec 2021 00:51

Tgt Ion:	112	Resp:	271865
Ion Ratio	100	Lower	Upper
112	100		
114	31.6	22.4	41.6
77	52.0	50.2	75.4

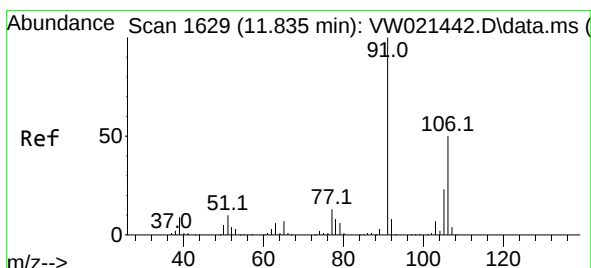
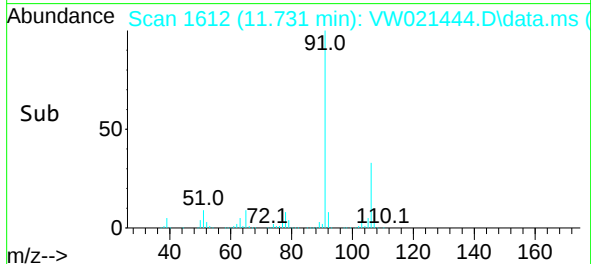
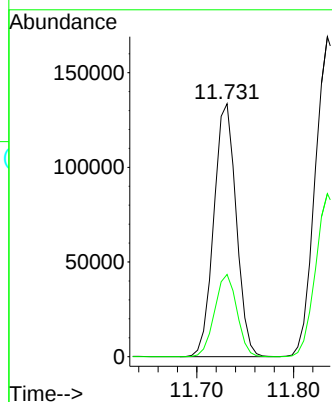
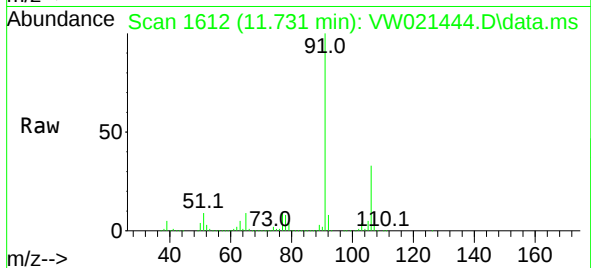




#52
Ethylbenzene
Concen: 26.057 ug/L
RT: 11.731 min Scan# 1612
Delta R.T. -0.000 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

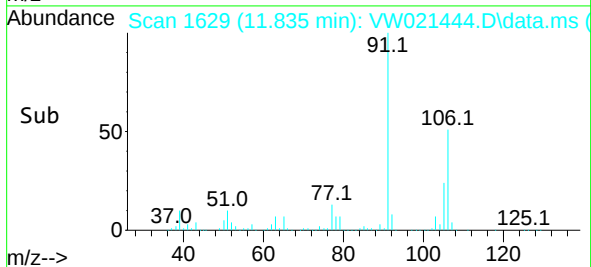
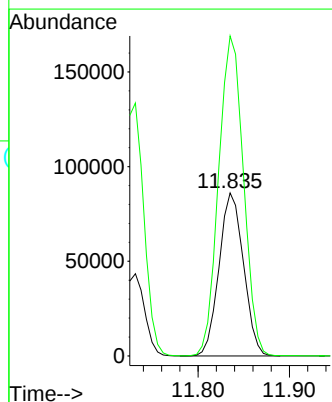
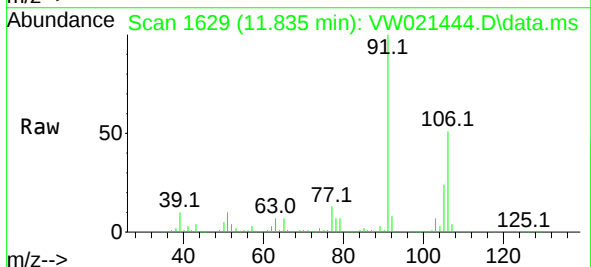
Instrument :
MSVOA_W
ClientSampleId :

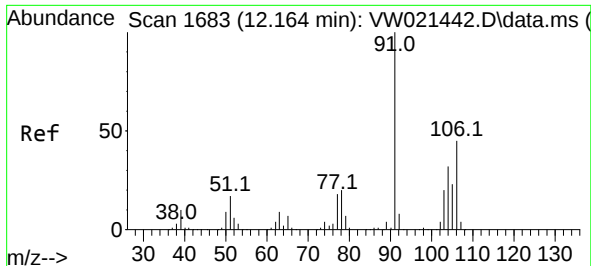
Tgt Ion: 91 Resp: 214880
Ion Ratio Lower Upper
91 100
106 32.5 21.5 39.9



#53
m,p-Xylene
Concen: 48.142 ug/L
RT: 11.835 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

Tgt Ion:106 Resp: 160155
Ion Ratio Lower Upper
106 100
91 196.3 149.9 278.3

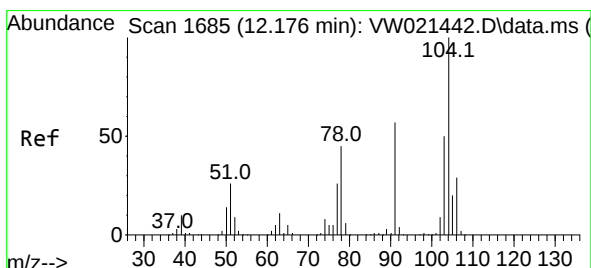
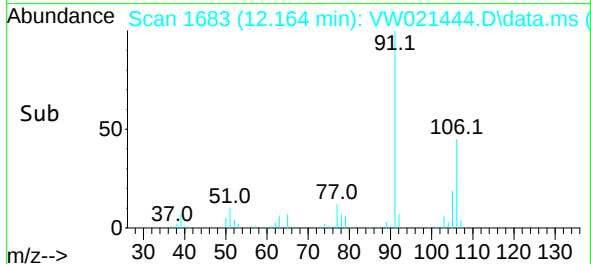
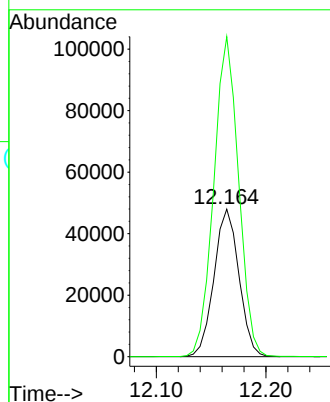
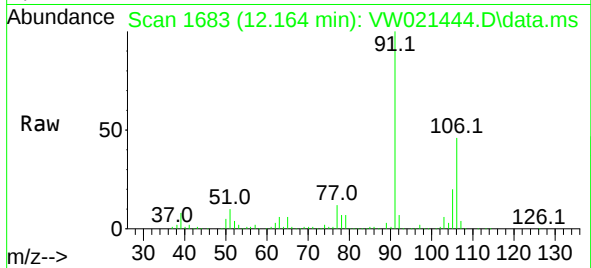




#54
o-Xylene
Concen: 24.052 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

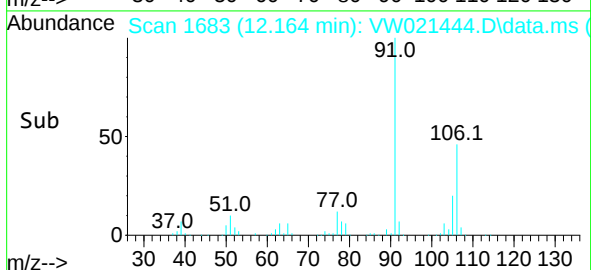
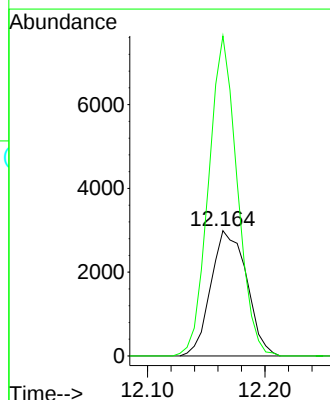
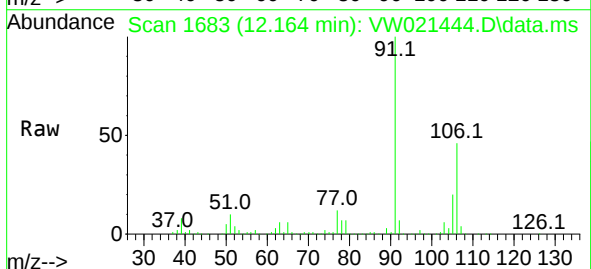
Instrument :
MSVOA_W
ClientSampleId :

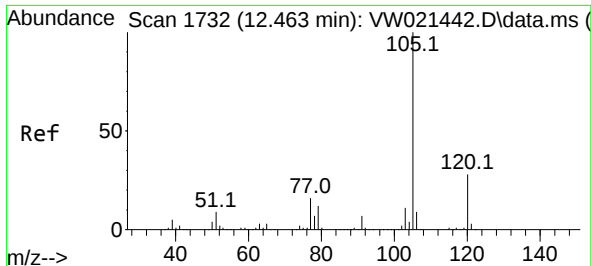
Tgt Ion:106 Resp: 75936
Ion Ratio Lower Upper
106 100
91 216.9 153.6 285.3



#55
Styrene
Concen: 1.179 ug/L
RT: 12.164 min Scan# 1683
Delta R.T. -0.012 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

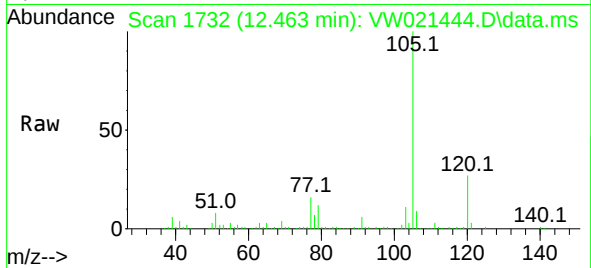
Tgt Ion:104 Resp: 6337
Ion Ratio Lower Upper
104 100
78 255.4 34.4 64.0#



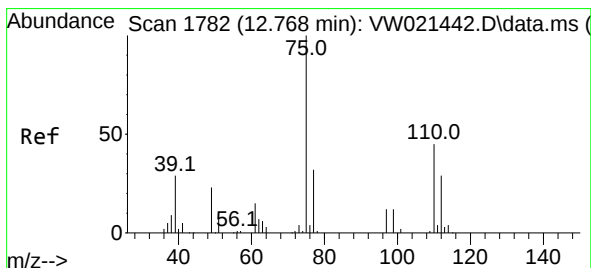
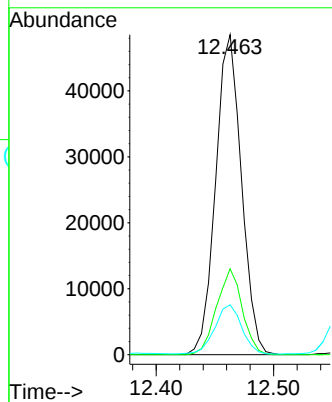
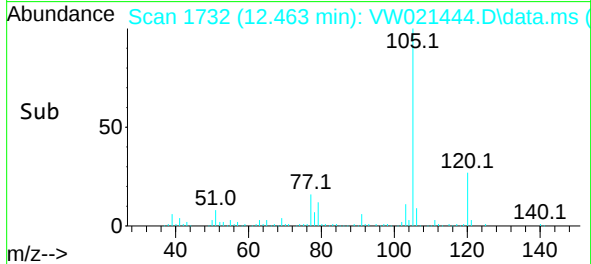


#60
Isopropylbenzene
Concen: 8.083 ug/L
RT: 12.463 min Scan# 1732
Delta R.T. -0.000 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

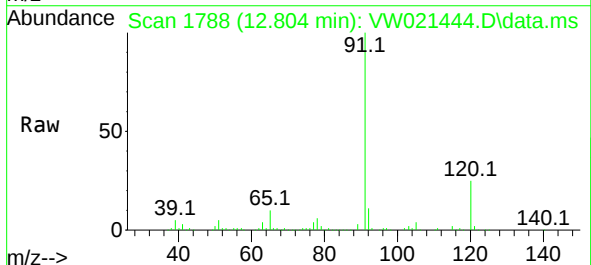
Instrument :
MSVOA_W
ClientSampleId :



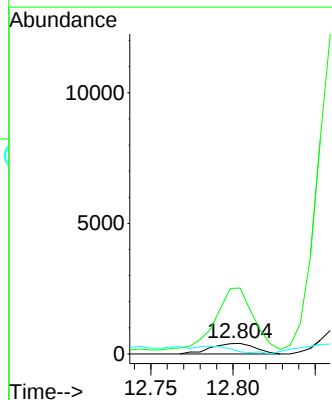
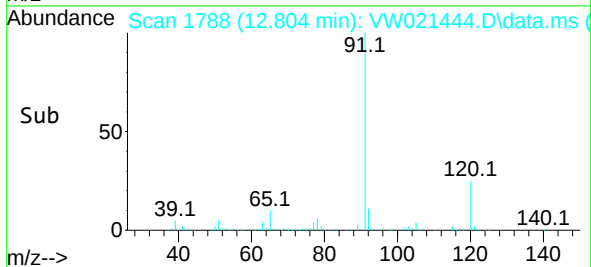
Tgt Ion:105 Resp: 74001
Ion Ratio Lower Upper
105 100
120 26.6 20.1 30.1
77 16.0 13.8 20.8

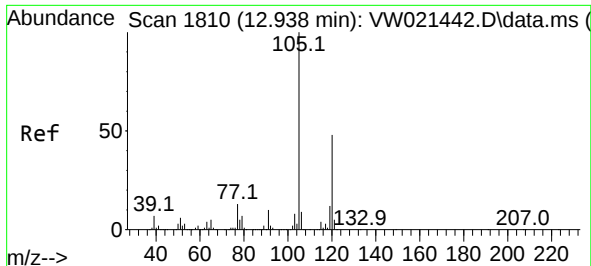


#61
1,2,3-Trichloropropane
Concen: 0.760 ug/L
RT: 12.804 min Scan# 1788
Delta R.T. 0.037 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51



Tgt Ion: 75 Resp: 745
Ion Ratio Lower Upper
75 100
77 508.5 25.8 38.8#
110 3.9 29.0 43.4#





#62

1,3,5-Trimethylbenzene

Concen: 21.676 ug/L

RT: 12.938 min Scan# 1810

Delta R.T. -0.000 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Instrument :

MSVOA_W

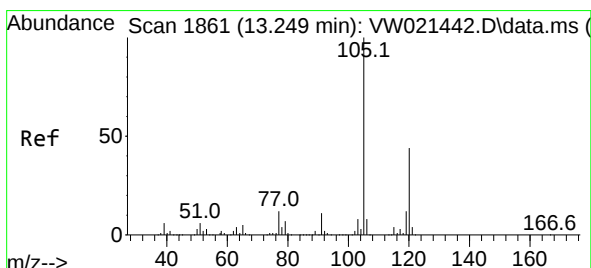
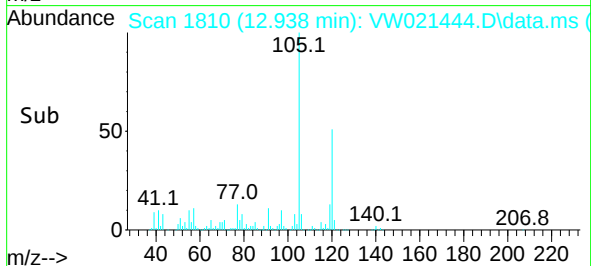
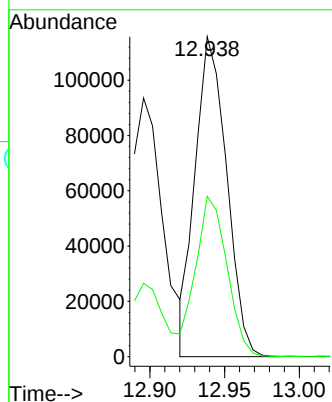
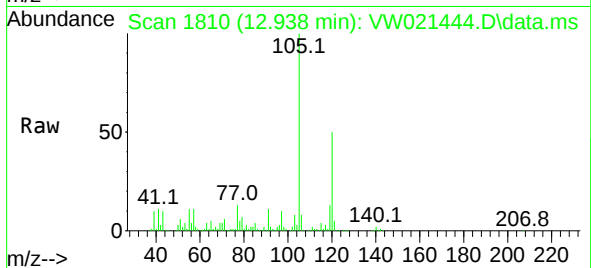
ClientSampleId :

Tgt Ion:105 Resp: 168859

Ion Ratio Lower Upper

105 100

120 49.6 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 92.953 ug/L

RT: 13.249 min Scan# 1861

Delta R.T. -0.000 min

Lab File: VW021444.D

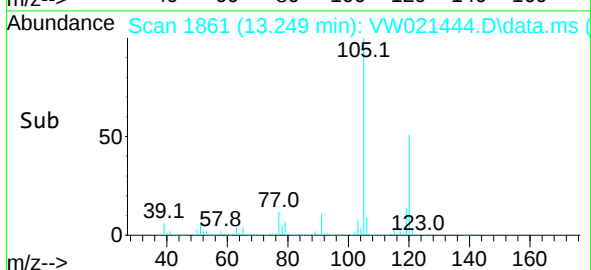
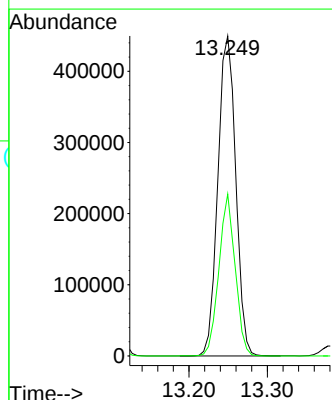
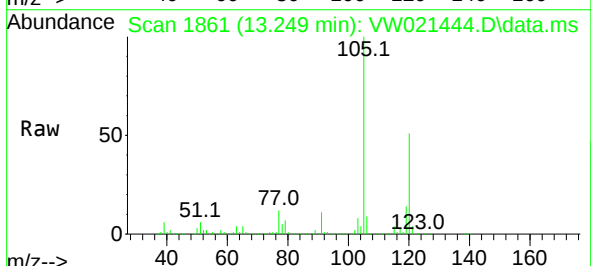
Acq: 18 Dec 2021 00:51

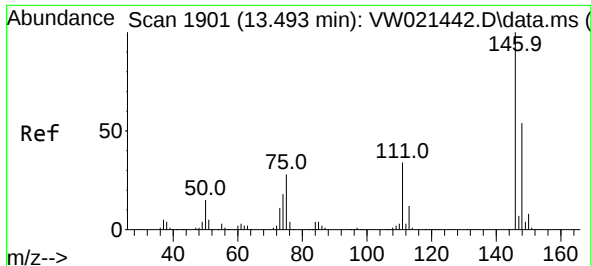
Tgt Ion:105 Resp: 714318

Ion Ratio Lower Upper

105 100

120 45.9 35.0 52.6





#64

1,3-Dichlorobenzene

Concen: 5.462 ug/L

RT: 13.499 min Scan# 1901

Delta R.T. 0.006 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Instrument :

MSVOA_W

ClientSampleId :

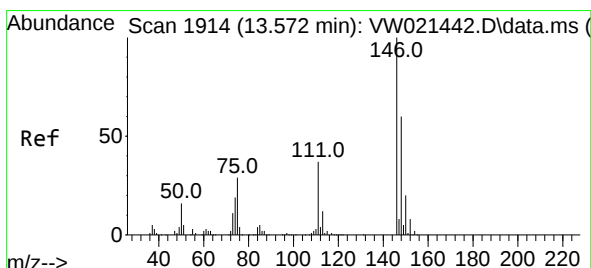
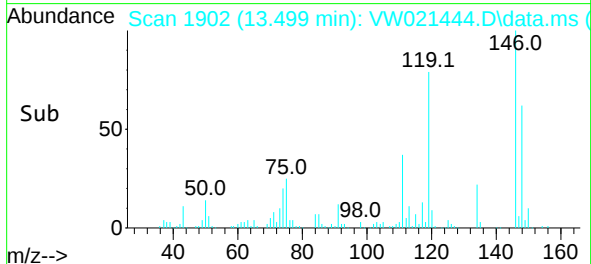
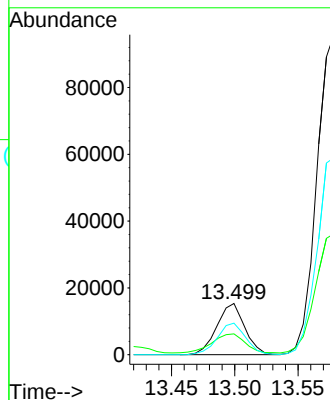
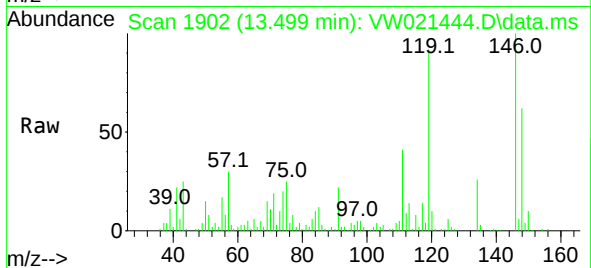
Tgt Ion:146 Resp: 23585

Ion Ratio Lower Upper

146 100

111 40.8 29.8 55.3

148 61.7 46.2 85.8



#65

1,4-Dichlorobenzene

Concen: 35.052 ug/L

RT: 13.579 min Scan# 1915

Delta R.T. 0.006 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

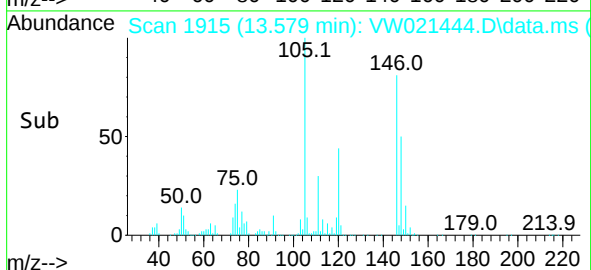
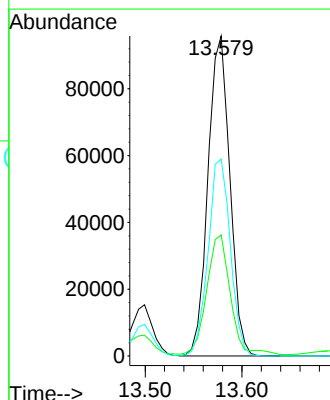
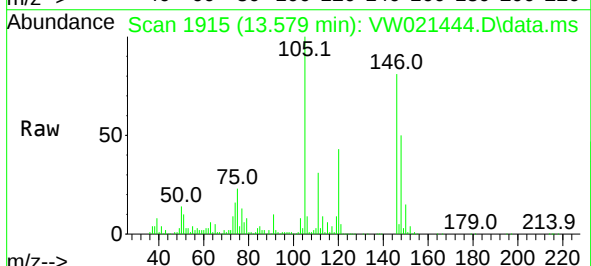
Tgt Ion:146 Resp: 150380

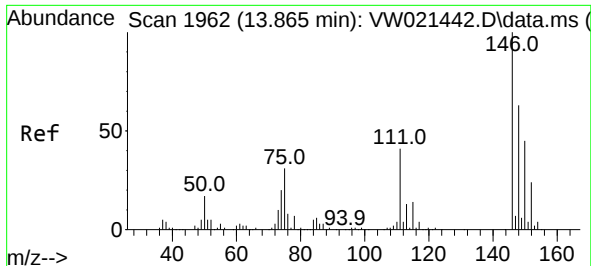
Ion Ratio Lower Upper

146 100

111 37.9 29.0 53.9

148 61.6 46.9 87.1





#67

1,2-Dichlorobenzene

Concen: 33.280 ug/L

RT: 13.871 min Scan# 1962

Delta R.T. 0.006 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

Instrument :

MSVOA_W

ClientSampleId :

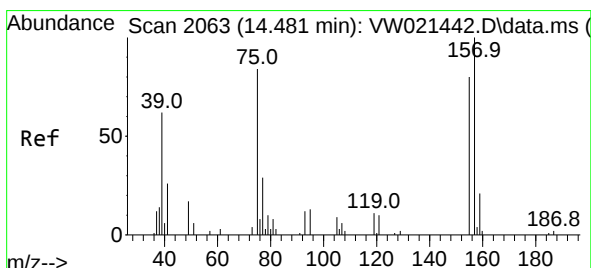
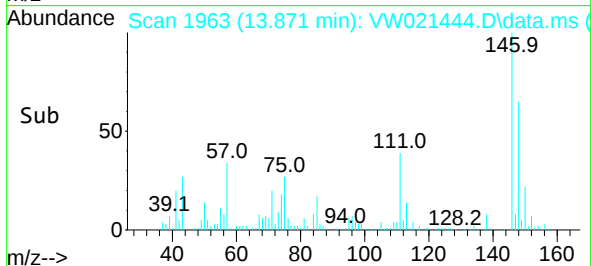
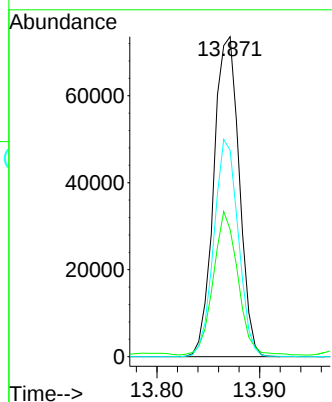
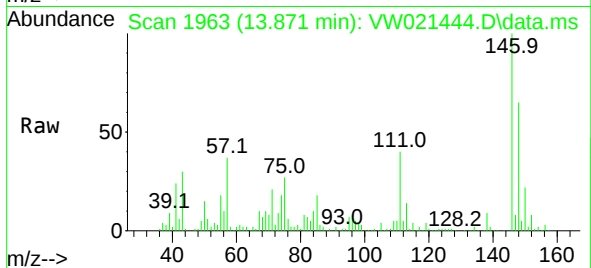
Tgt Ion:146 Resp: 126515

Ion Ratio Lower Upper

146 100

111 39.7 33.1 49.7

148 64.5 47.4 71.2



#68

1,2-Dibromo-3-chloropropane

Concen: 5.117 ug/L

RT: 14.206 min Scan# 2018

Delta R.T. -0.274 min

Lab File: VW021444.D

Acq: 18 Dec 2021 00:51

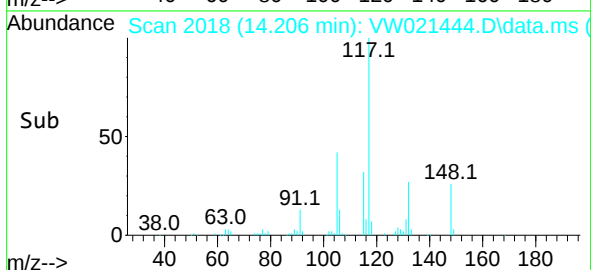
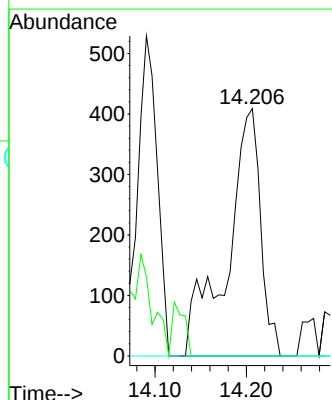
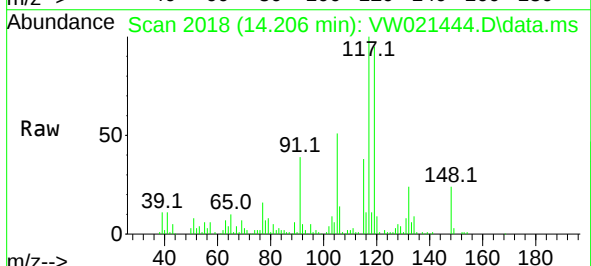
Tgt Ion: 75 Resp: 1035

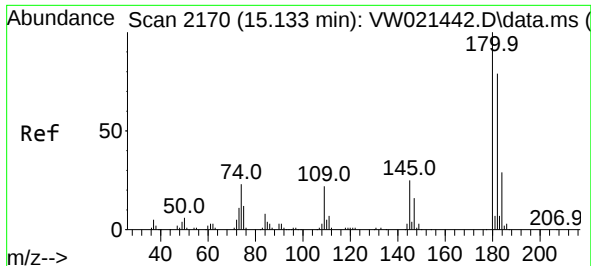
Ion Ratio Lower Upper

75 100

155 0.0 54.2 81.2#

157 0.0 69.4 104.2#

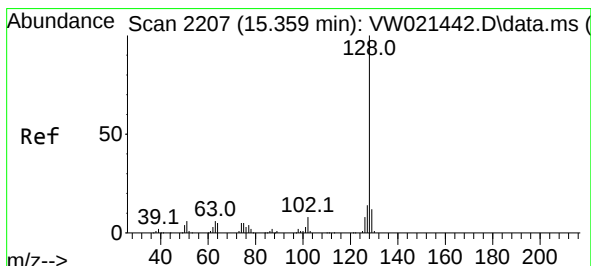
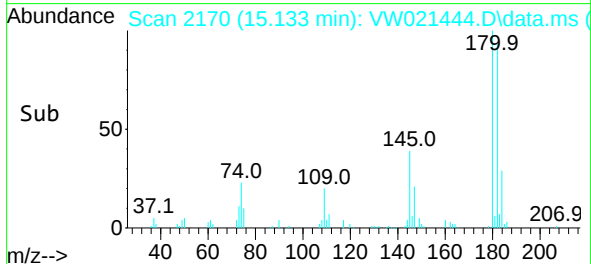
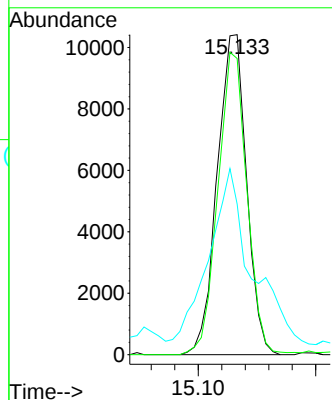
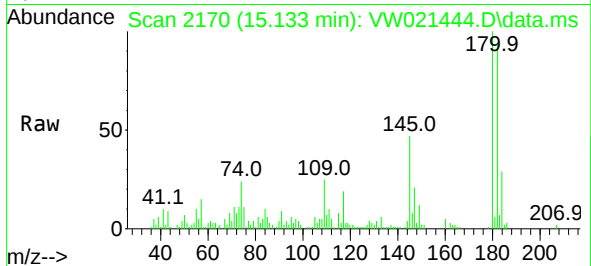




#70
1,2,4-trichlorobenzene
Concen: 6.969 ug/L
RT: 15.133 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:180 Resp: 18092
Ion Ratio Lower Upper
180 100
182 93.6 79.0 118.6
145 64.5 26.0 39.0#



#71
Naphthalene
Concen: 229.611 ug/L
RT: 15.359 min Scan# 2207
Delta R.T. -0.000 min
Lab File: VW021444.D
Acq: 18 Dec 2021 00:51

Tgt Ion:128 Resp: 968363
Ion Ratio Lower Upper
128 100
127 13.0 10.7 16.1
129 11.0 8.6 12.8

