

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120921\
 Data File : VW023857.D
 Acq On : 09 Dec 2021 13:33
 Operator : SY/MD
 Sample : M4984-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EW5R8

Quant Time: Dec 10 00:42:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112321WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 02 02:08:23 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	101089	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	98782	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	58597	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	29991	3.614	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.200%
7) Chloroethane-d5	1.568	69	27761	4.256	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.200%
11) 1,1-Dichloroethene-d2	2.108	63	46515	3.180	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.600%
20) 2-Butanone-d5	3.895	46	75571	75.751	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	151.500%#
24) Chloroform-d	4.352	84	74223	5.136	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.800%
26) 1,2-Dichloroethane-d4	5.034	65	35991	5.331	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.600%
32) Benzene-d6	5.050	84	138036	5.130	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.600%
36) 1,2-Dichloropropane-d6	6.069	67	41341	5.480	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.600%
41) Toluene-d8	7.317	98	123152	4.898	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.000%
43) trans-1,3-Dichloroprop...	7.625	79	15435	5.076	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.600%
46) 2-Hexanone-d5	8.088	63	67396	66.709	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	133.420%#
56) 1,1,2,2-Tetrachloroeth...	10.217	84	30022	5.530	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.600%
66) 1,2-Dichlorobenzene-d4	11.625	152	59057	5.701	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.130	85	903	0.094	ug/L	90
3) Chloromethane	1.243	50	552	0.066	ug/L	100
5) Vinyl chloride	1.314	62	10899	1.245	ug/L	94
8) Chloroethane	1.587	64	1610643	290.262	ug/L	95
13) Acetone	2.188	43	4587	5.110	ug/L	73
14) Carbon disulfide	2.297	76	4903	0.215	ug/L	95
17) Methyl tert-butyl Ether	2.767	73	2872	0.207	ug/L #	63
18) trans-1,2-Dichloroethene	2.764	96	9514	1.233	ug/L	96
19) 1,1-Dichloroethane	3.191	63	785400	60.548	ug/L	99
22) cis-1,2-Dichloroethene	3.915	96	32509	4.394	ug/L	93
29) 1,1,1-Trichloroethane	4.609	97	400798	31.048	ug/L	99
30) Cyclohexane	4.683	56	3803	0.353	ug/L	93
34) Trichloroethene	5.918	95	9627	1.276	ug/L	92
35) Methylcyclohexane	6.130	83	14637	1.245	ug/L	96
42) Toluene	7.397	91	4161	0.136	ug/L	92
47) Tetrachloroethene	7.976	164	85845	12.502	ug/L	98
52) Ethylbenzene	9.014	91	58285	1.826	ug/L	97
60) Isopropylbenzene	9.931	105	119022	3.402	ug/L	99
62) 1,3,5-Trimethylbenzene	10.538	105	36845	1.266	ug/L	98

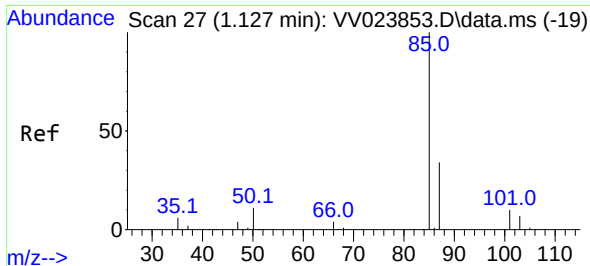
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120921\
Data File : VV023857.D
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112321WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Dec 02 02:08:23 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.915	105	471427	16.374	ug/L	99
65) 1,4-Dichlorobenzene	11.275	146	3090	0.172	ug/L	96
67) 1,2-Dichlorobenzene	11.644	146	32147	1.964	ug/L	99

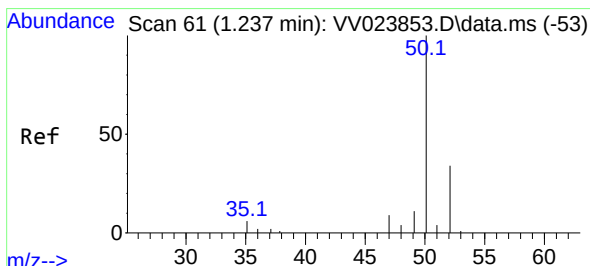
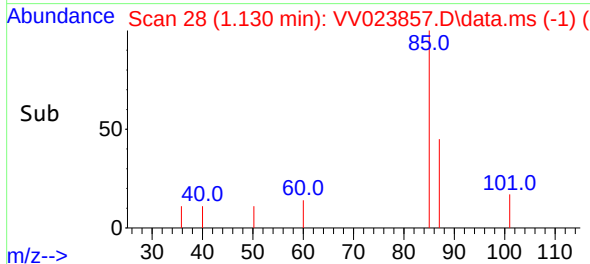
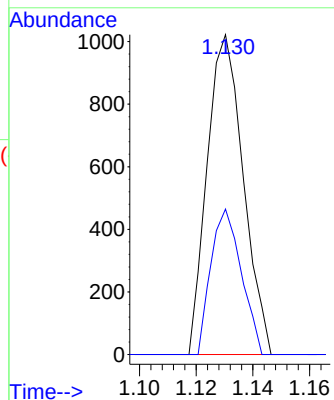
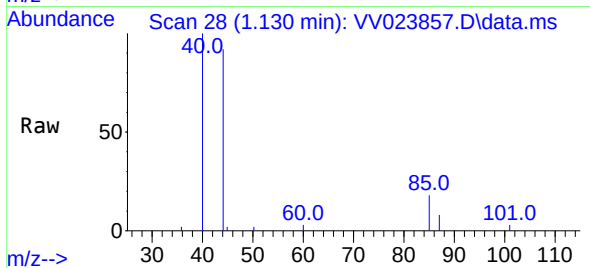
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
Dichlorodifluoromethane
Concen: 0.094 ug/L
RT: 1.130 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

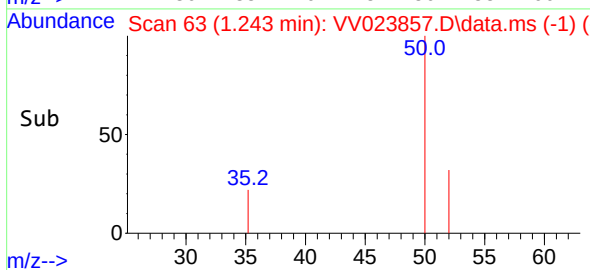
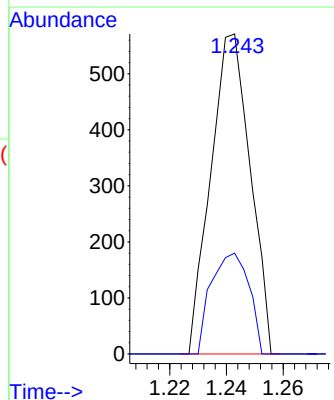
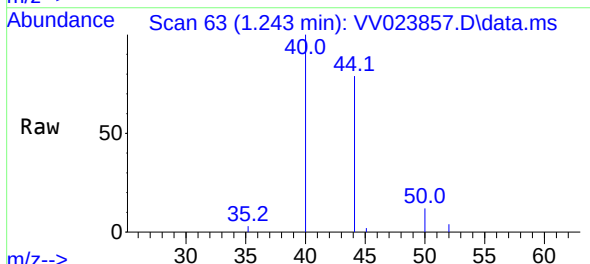
Instrument :
MSVOA_V
ClientSampleId :
EW5R8

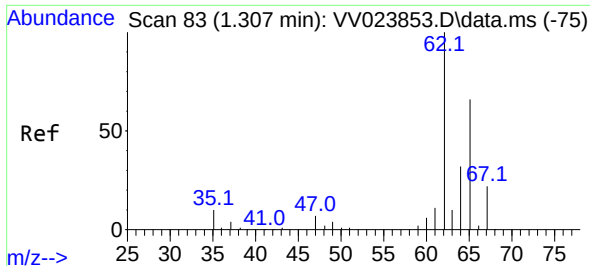
Tgt Ion: 85 Resp: 903
Ion Ratio Lower Upper
85 100
87 38.3 26.0 39.0



#3
Chloromethane
Concen: 0.066 ug/L
RT: 1.243 min Scan# 63
Delta R.T. 0.003 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

Tgt Ion: 50 Resp: 552
Ion Ratio Lower Upper
50 100
52 31.5 22.0 41.0

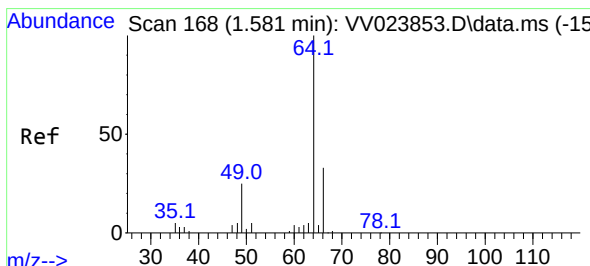
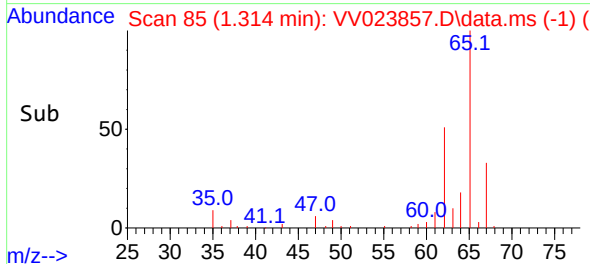
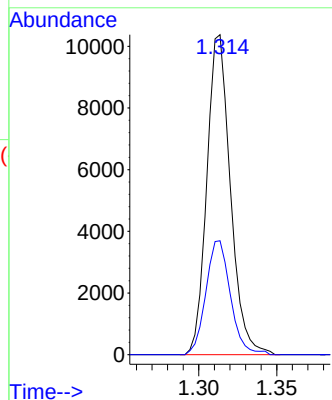
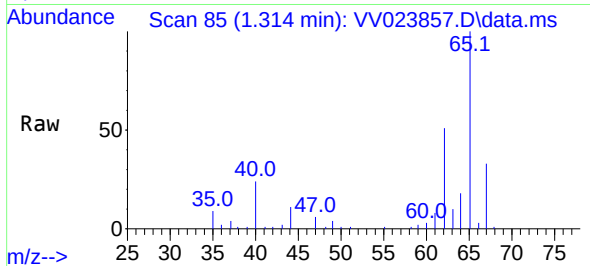




#5
 Vinyl chloride
 Concen: 1.245 ug/L
 RT: 1.314 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VV023857.D
 Acq: 09 Dec 2021 13:33

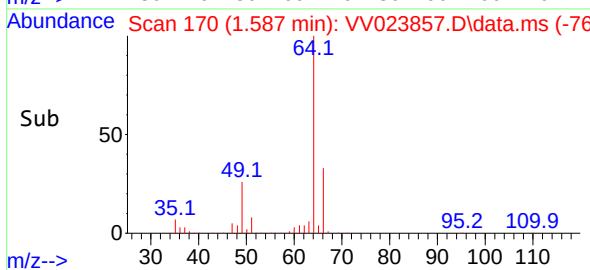
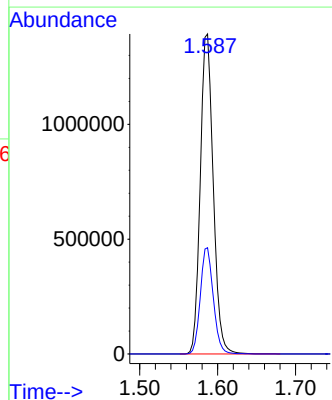
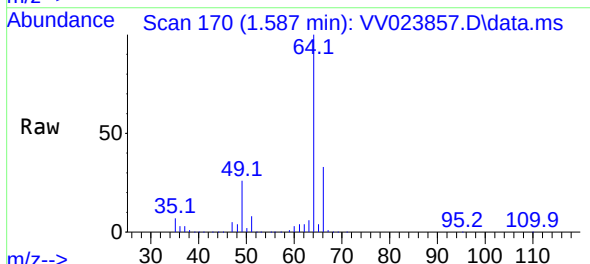
Instrument :
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 ClientSampleId :
 EW5R8

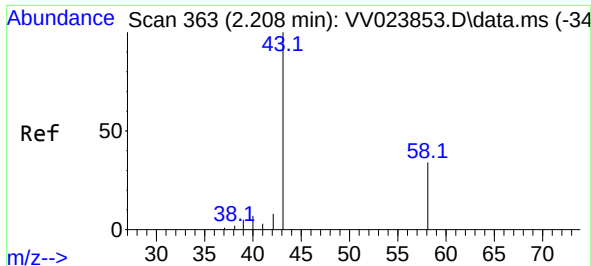
Tgt Ion: 62 Resp: 10899
 Ion Ratio Lower Upper
 62 100
 64 35.6 22.4 41.6



#8
 Chloroethane
 Concen: 290.262 ug/L
 RT: 1.587 min Scan# 170
 Delta R.T. 0.003 min
 Lab File: VV023857.D
 Acq: 09 Dec 2021 13:33

Tgt Ion: 64 Resp: 1610643
 Ion Ratio Lower Upper
 64 100
 66 33.2 21.4 39.8





#13

Acetone

Concen: 5.110 ug/L

RT: 2.188 min Scan# 31

Delta R.T. -0.035 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

Instrument :

MSVOA_V

ClientSampleId :

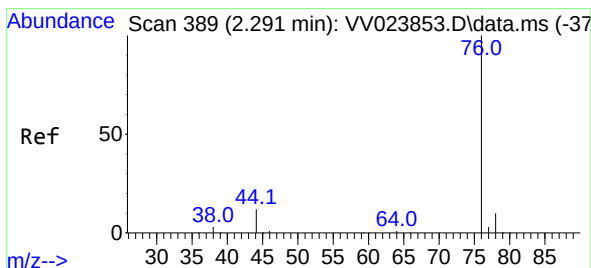
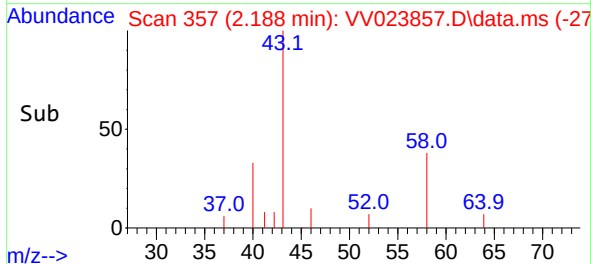
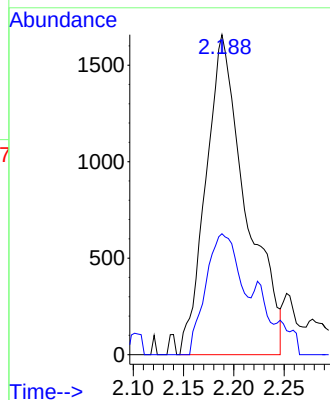
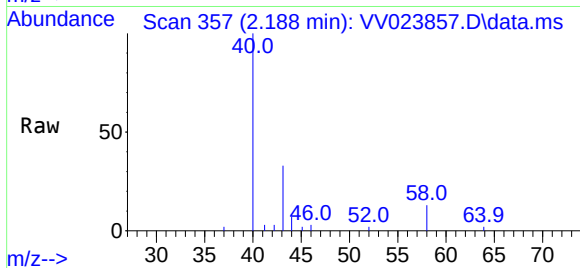
EW5R8

Tgt Ion: 43 Resp: 4587

Ion Ratio Lower Upper

43 100

58 33.2 0.0 41.4



#14

Carbon disulfide

Concen: 0.215 ug/L

RT: 2.297 min Scan# 391

Delta R.T. 0.003 min

Lab File: VV023857.D

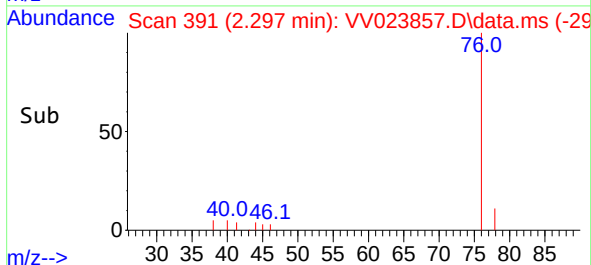
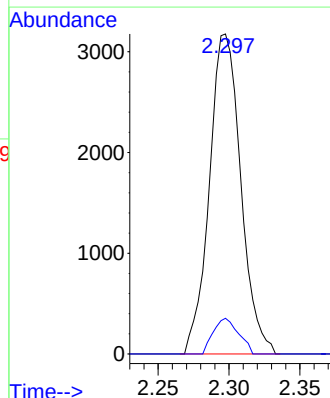
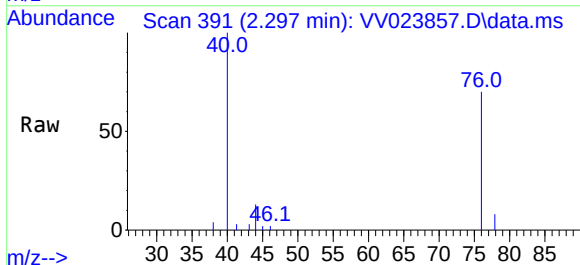
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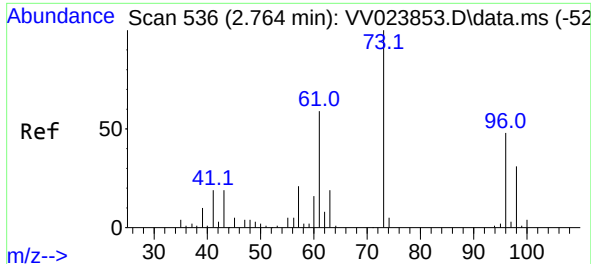
Tgt Ion: 76 Resp: 4903

Ion Ratio Lower Upper

76 100

78 11.2 7.5 11.3





#17

Methyl tert-butyl Ether

Concen: 0.207 ug/L

RT: 2.767 min Scan# 51

Delta R.T. 0.000 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

Instrument :

MSVOA_V

ClientSampleId :

EW5R8

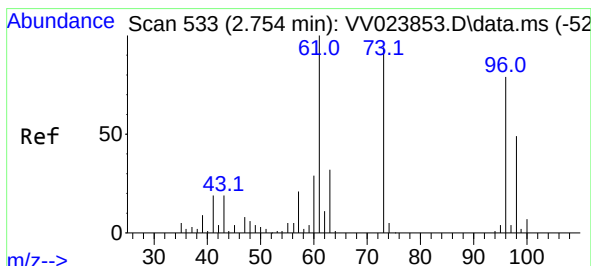
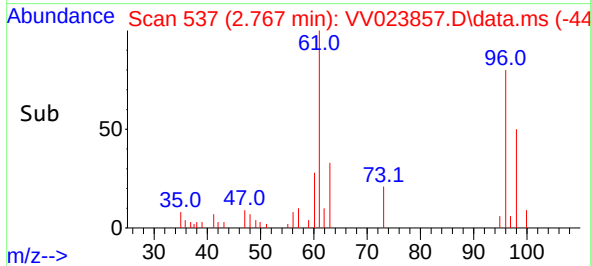
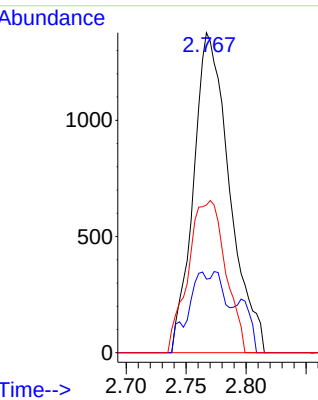
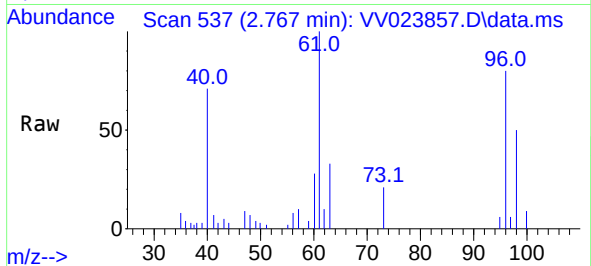
Tgt Ion: 73 Resp: 2872

Ion Ratio Lower Upper

73 100

43 13.7 15.5 23.3#

57 49.3 17.1 25.7#



#18

trans-1,2-Dichloroethene

Concen: 1.233 ug/L

RT: 2.764 min Scan# 536

Delta R.T. 0.006 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

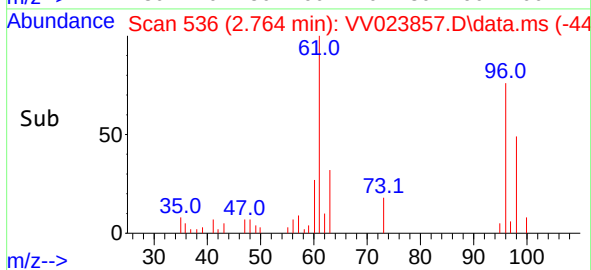
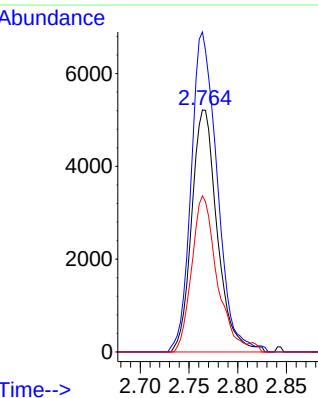
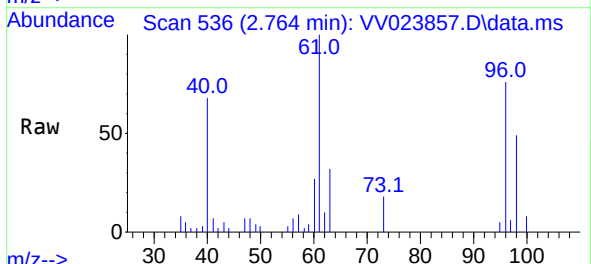
Tgt Ion: 96 Resp: 9514

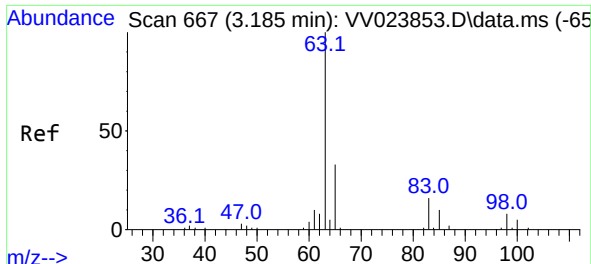
Ion Ratio Lower Upper

96 100

61 132.2 88.2 163.8

98 64.5 44.9 83.5





#19

1,1-Dichloroethane

Concen: 60.548 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.006 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

Instrument :

MSVOA_V

ClientSampleId :

EW5R8

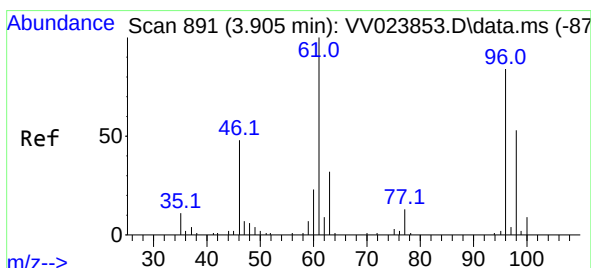
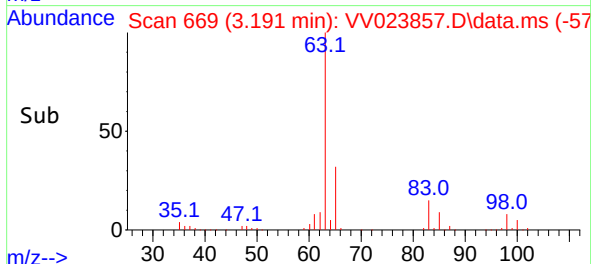
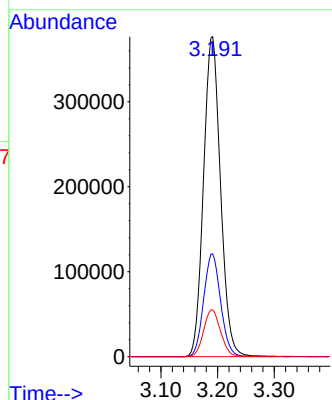
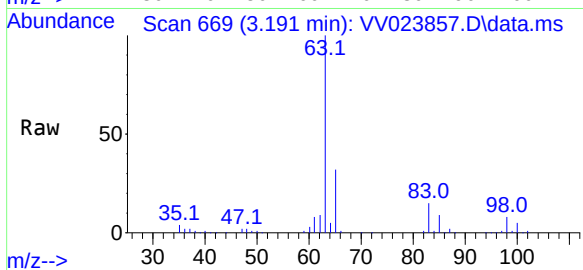
Tgt Ion: 63 Resp: 785400

Ion Ratio Lower Upper

63 100

65 32.1 22.3 41.3

83 14.6 10.7 19.9



#22

cis-1,2-Dichloroethene

Concen: 4.394 ug/L

RT: 3.915 min Scan# 894

Delta R.T. 0.006 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

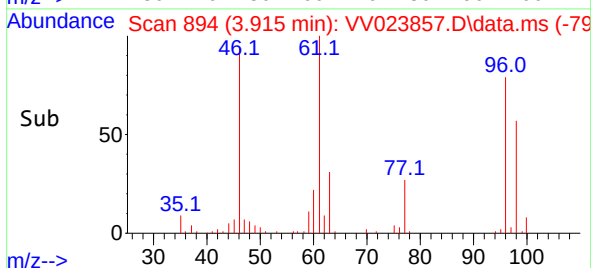
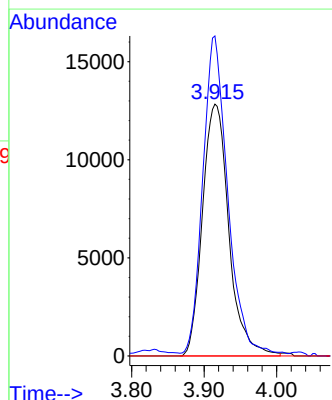
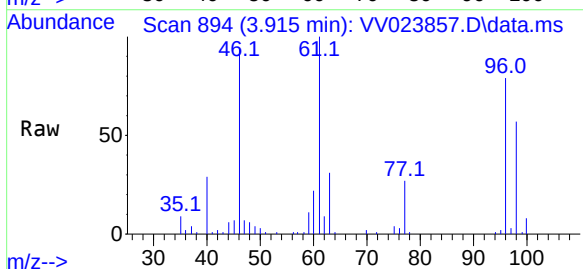
Tgt Ion: 96 Resp: 32509

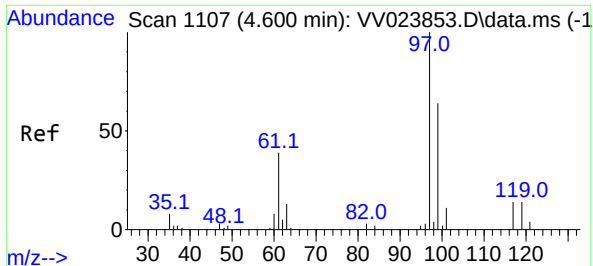
Ion Ratio Lower Upper

96 100

61 127.0 83.4 154.8

68 0.0 0.0 0.0

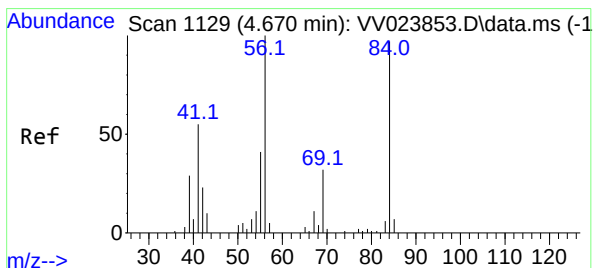
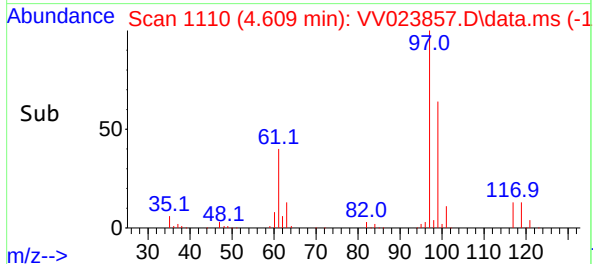
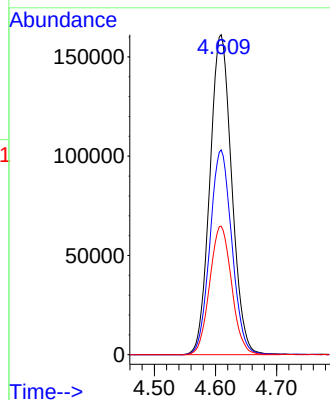
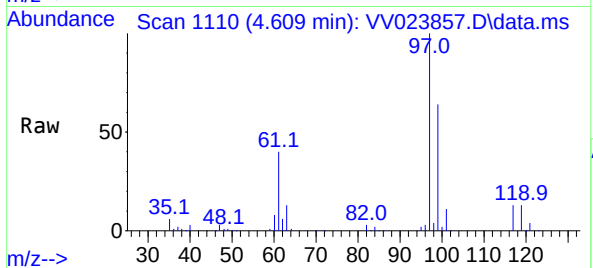




#29
1,1,1-Trichloroethane
Concen: 31.048 ug/L
RT: 4.609 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

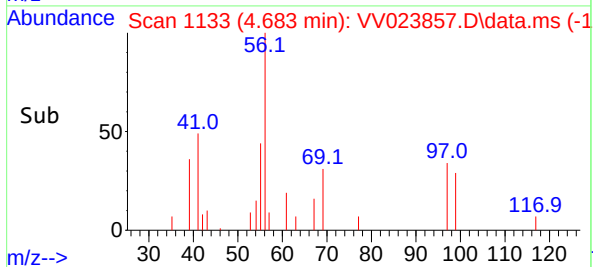
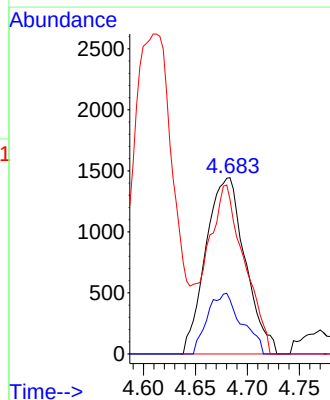
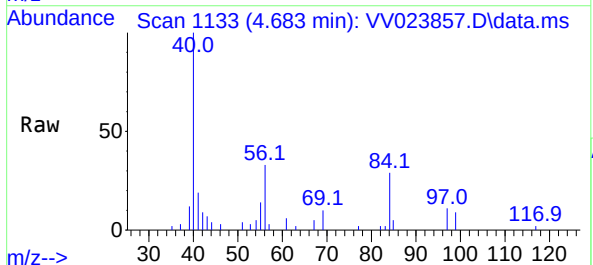
Instrument :
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EW5R8

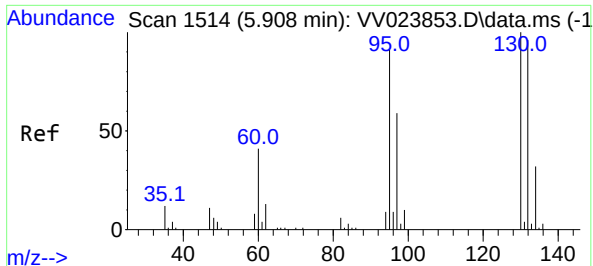
Tgt Ion: 97 Resp: 400798
Ion Ratio Lower Upper
97 100
99 64.4 51.9 77.9
61 40.3 33.2 49.8



#30
Cyclohexane
Concen: 0.353 ug/L
RT: 4.683 min Scan# 1133
Delta R.T. 0.010 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

Tgt Ion: 56 Resp: 3803
Ion Ratio Lower Upper
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69 29.8 24.8 37.2
84 87.2 75.9 113.9



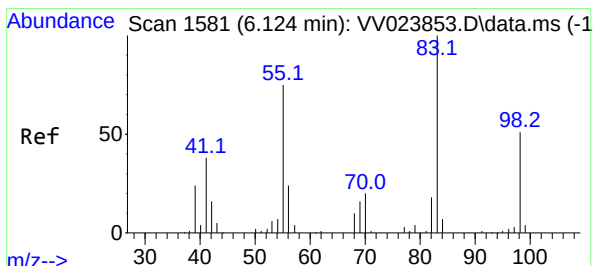
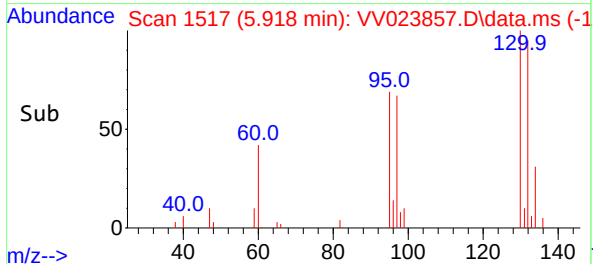
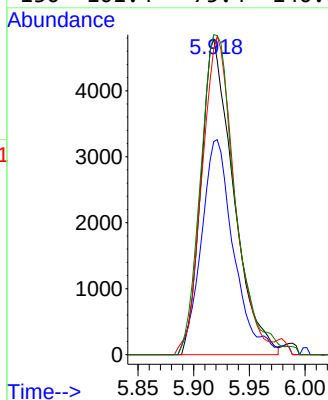
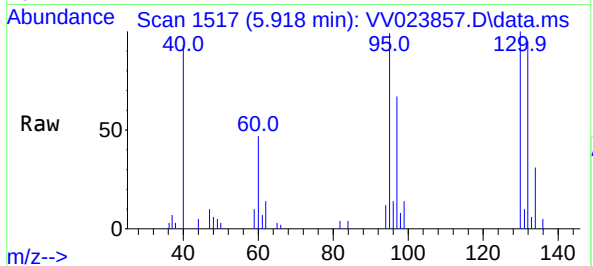


#34
Trichloroethene
Concen: 1.276 ug/L
RT: 5.918 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

Instrument :
MSVOA_V
ClientSampleId :
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Tgt Ion: 95 Resp: 9627

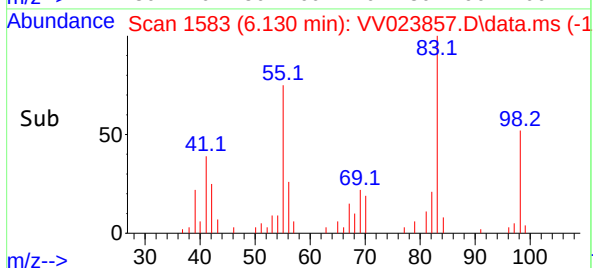
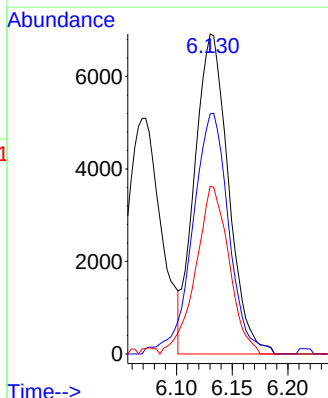
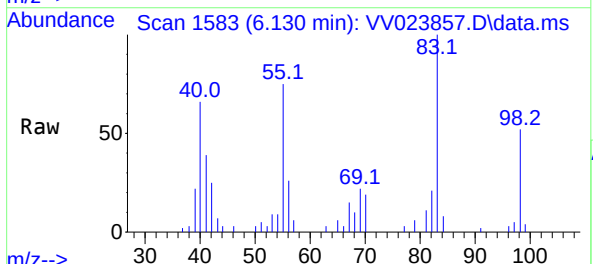
Ion	Ratio	Lower	Upper
95	100		
97	67.5	45.2	84.0
132	96.8	76.1	141.3
130	101.4	75.4	140.0

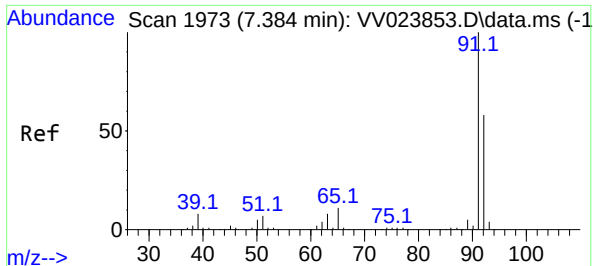


#35
Methylcyclohexane
Concen: 1.245 ug/L
RT: 6.130 min Scan# 1583
Delta R.T. 0.003 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

Tgt Ion: 83 Resp: 14637

Ion	Ratio	Lower	Upper
83	100		
55	80.3	60.2	90.2
98	51.4	41.0	61.4

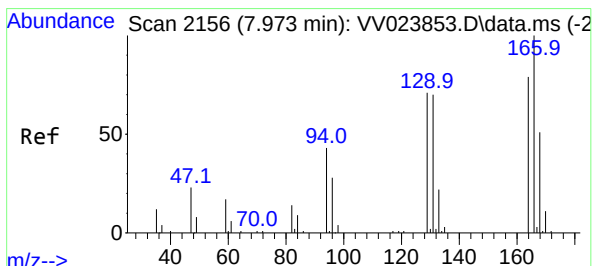
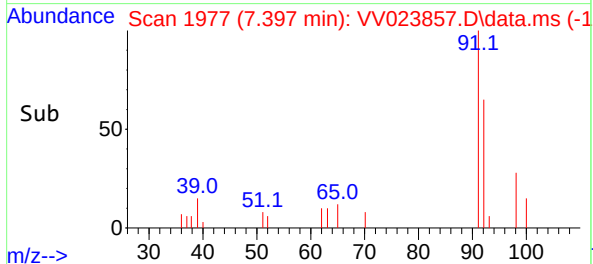
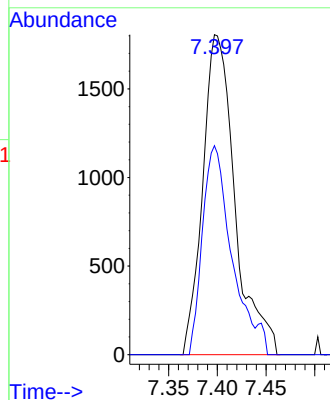
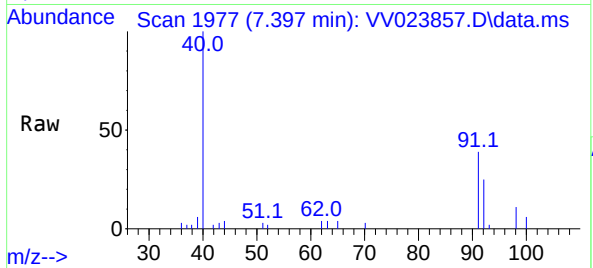




#42
Toluene
Concen: 0.136 ug/L
RT: 7.397 min Scan# 1973
Delta R.T. 0.013 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

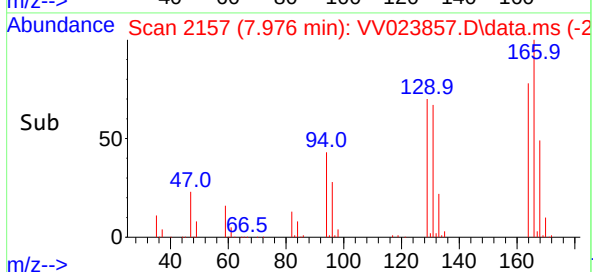
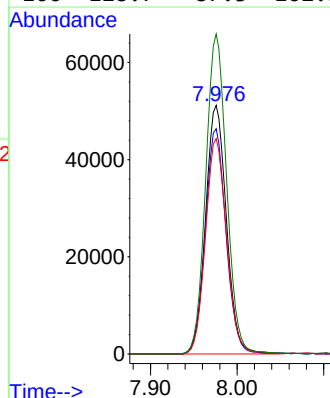
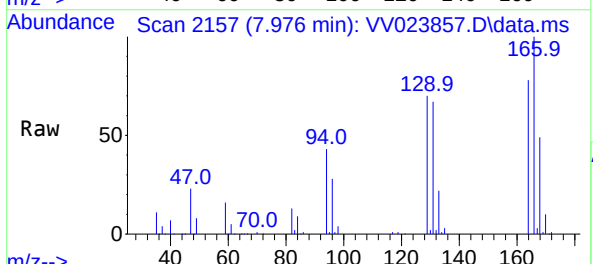
Instrument :
MSVOA_V
ClientSampleId :
EW5R8

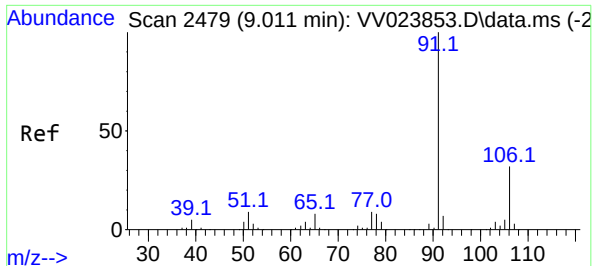
Tgt Ion: 91 Resp: 4161
Ion Ratio Lower Upper
91 100
92 65.3 41.5 77.1



#47
Tetrachloroethene
Concen: 12.502 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.003 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

Tgt Ion: 164 Resp: 85845
Ion Ratio Lower Upper
164 100
129 90.6 62.6 116.2
131 86.6 61.0 113.4
166 128.7 87.3 162.1





#52

Ethylbenzene

Concen: 1.826 ug/L

RT: 9.014 min Scan# 2479

Delta R.T. 0.003 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

Instrument :

MSVOA_V

ClientSampleId :

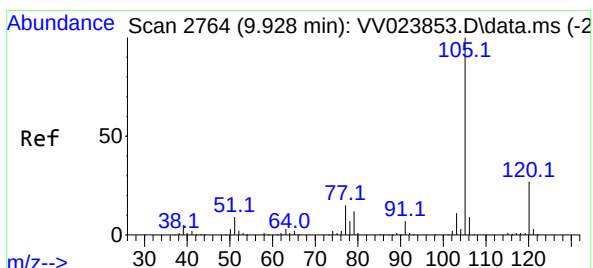
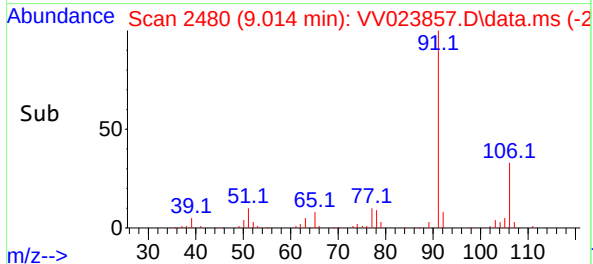
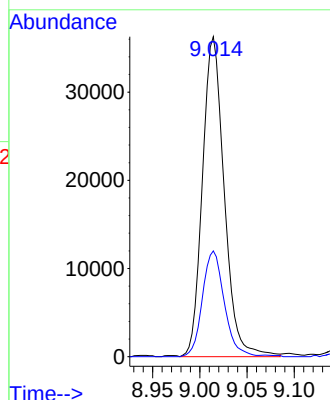
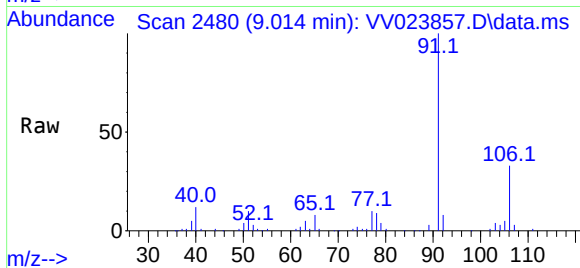
EW5R8

Tgt Ion: 91 Resp: 58285

Ion Ratio Lower Upper

91 100

106 33.0 22.0 41.0



#60

Isopropylbenzene

Concen: 3.402 ug/L

RT: 9.931 min Scan# 2765

Delta R.T. 0.000 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

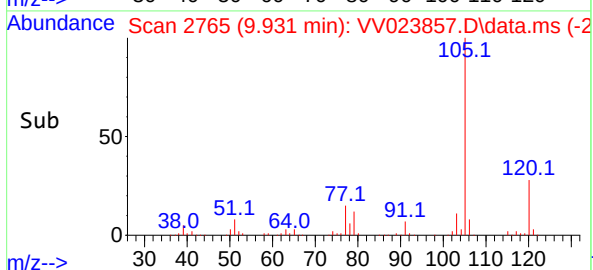
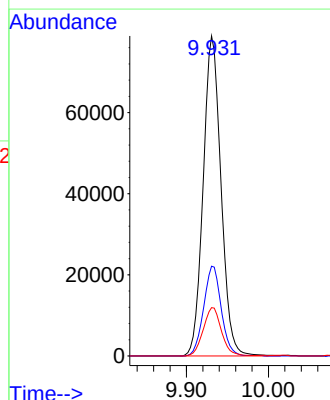
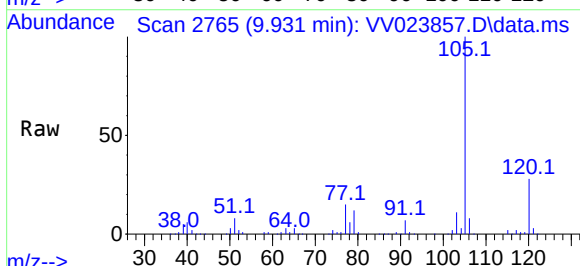
Tgt Ion: 105 Resp: 119022

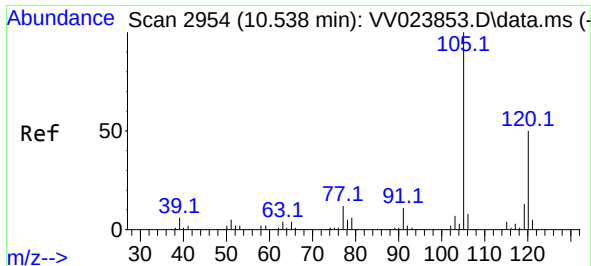
Ion Ratio Lower Upper

105 100

120 27.7 21.4 32.0

77 15.5 12.2 18.4





#62

1,3,5-Trimethylbenzene

Concen: 1.266 ug/L

RT: 10.538 min Scan# 2954

Delta R.T. 0.000 min

Lab File: VV023857.D

Acq: 09 Dec 2021 13:33

Instrument :

MSVOA_V

ClientSampleId :

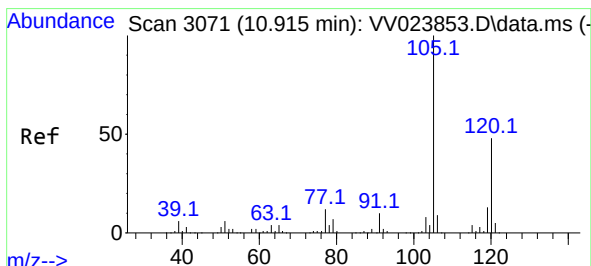
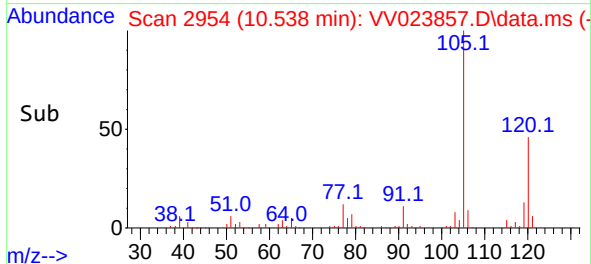
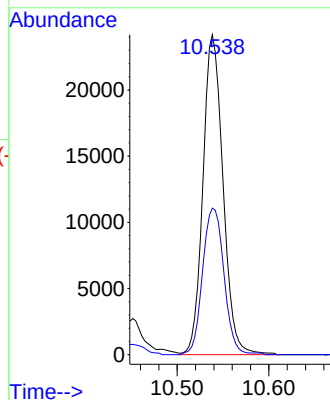
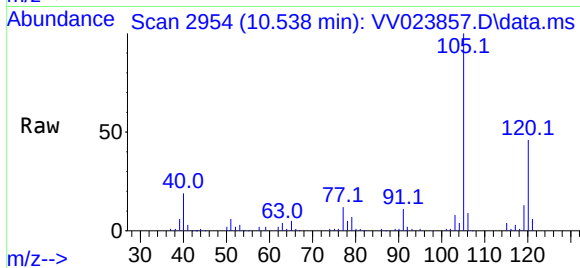
EW5R8

Tgt Ion:105 Resp: 36845

Ion Ratio Lower Upper

105 100

120 48.8 40.1 60.1



#63

1,2,4-Trimethylbenzene

Concen: 16.374 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.003 min

Lab File: VV023857.D

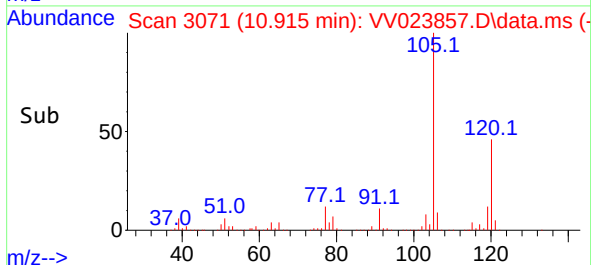
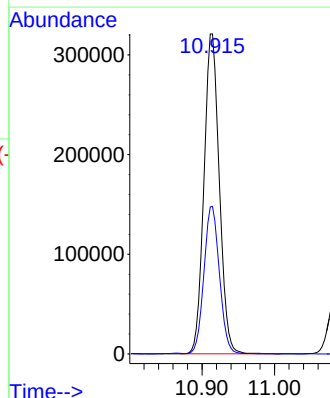
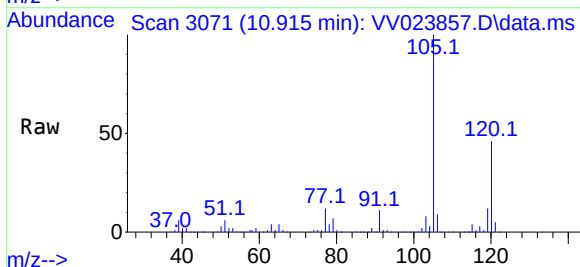
Acq: 09 Dec 2021 13:33

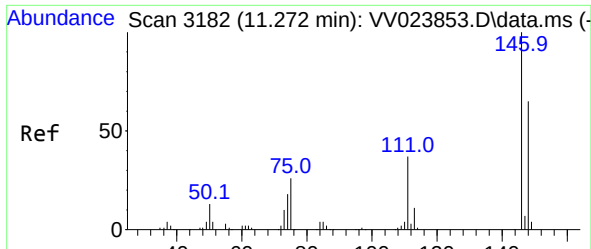
Tgt Ion:105 Resp: 471427

Ion Ratio Lower Upper

105 100

120 46.5 36.7 55.1

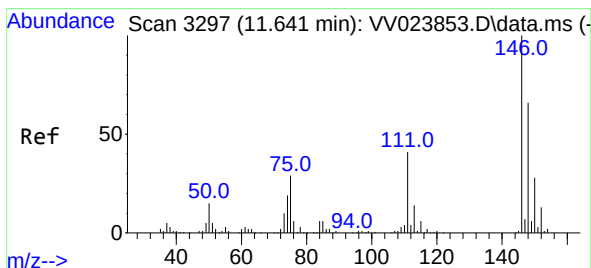
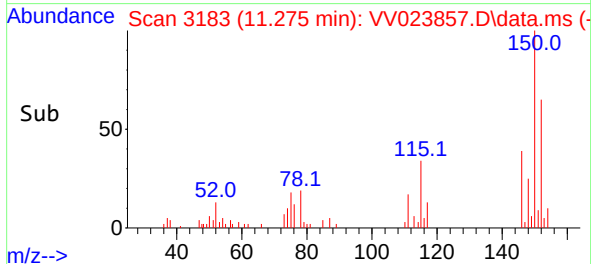
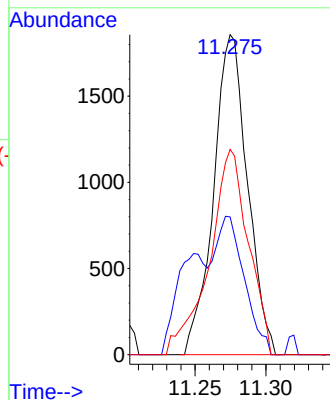
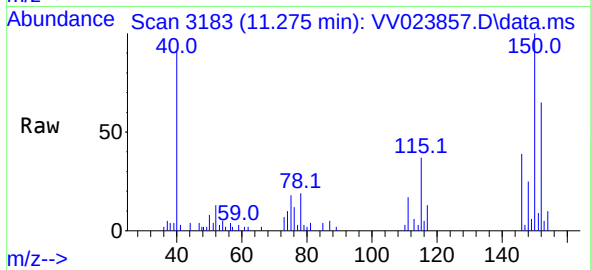




#65
1,4-Dichlorobenzene
Concen: 0.172 ug/L
RT: 11.275 min Scan# 3183
Delta R.T. 0.003 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

Instrument :
MSVOA_V
ClientSampleId :
EW5R8

Tgt Ion:	146	Resp:	3090
Ion	Ratio	Lower	Upper
146	100		
111	43.0	25.6	47.6
148	64.1	44.8	83.2



#67
1,2-Dichlorobenzene
Concen: 1.964 ug/L
RT: 11.644 min Scan# 3298
Delta R.T. 0.003 min
Lab File: VV023857.D
Acq: 09 Dec 2021 13:33

Tgt Ion:	146	Resp:	32147
Ion	Ratio	Lower	Upper
146	100		
111	38.3	31.9	47.9
148	63.3	50.5	75.7

