

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111122\
 Data File : VW028912.D
 Acq On : 12 Nov 2022 06:40
 Operator : SY/MD
 Sample : N5590-11
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GBMY2

Quant Time: Nov 14 00:24:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Nov 12 03:43:58 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	329268	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	301394	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	157396	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	84550	4.212	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.200%
7) Chloroethane-d5	1.561	69	77981	4.419	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.400%
11) 1,1-Dichloroethene-d2	2.101	63	115893	3.168	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.400%
20) 2-Butanone-d5	3.902	46	159103	47.348	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.700%
24) Chloroform-d	4.346	84	195406	4.741	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.800%
26) 1,2-Dichloroethane-d4	5.031	65	87925	4.742	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.800%
32) Benzene-d6	5.047	84	419509	4.663	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.200%
36) 1,2-Dichloropropane-d6	6.066	67	122699	4.884	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.600%
41) Toluene-d8	7.310	98	376293	4.647	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.000%
43) trans-1,3-Dichloroprop...	7.619	79	36370	4.439	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.800%
46) 2-Hexanone-d5	8.088	63	182173	52.091	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.180%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	83969	4.821	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.400%
66) 1,2-Dichlorobenzene-d4	11.616	152	143671	5.102	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	4824	0.212	ug/L #	70
5) Vinyl chloride	1.310	62	16933	0.652	ug/L #	75
8) Chloroethane	1.307	64	6688	0.438	ug/L	91
13) Acetone	2.208	43	163299	75.547	ug/L	83
15) Methyl Acetate	2.494	43	2507888	478.070	ug/L #	44
16) Methylene chloride	2.503	84	57910	2.247	ug/L #	1
18) trans-1,2-Dichloroethene	2.757	96	9548	0.413	ug/L	94
19) 1,1-Dichloroethane	3.188	63	2106	0.056	ug/L #	86
21) 2-Butanone	3.873	43	97110	29.018	ug/L	99
22) cis-1,2-Dichloroethene	3.902	96	3156023	134.283	ug/L	99
25) Chloroform	4.400	83	45678	1.153	ug/L #	1
27) 1,2-Dichloroethane	5.098	62	280570	13.750	ug/L #	77
30) Cyclohexane	4.667	56	810498	22.548	ug/L #	83
33) Benzene	5.092	78	19910515	216.182	ug/L	100
34) Trichloroethene	5.908	95	238465	10.114	ug/L	98
35) Methylcyclohexane	6.124	83	545439	13.162	ug/L #	82
38) Bromodichloromethane	6.452	83	9901	0.368	ug/L #	1
40) 4-Methyl-2-pentanone	7.230	43	153327	16.779	ug/L #	90
42) Toluene	7.391	91	37538	0.377	ug/L	100

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

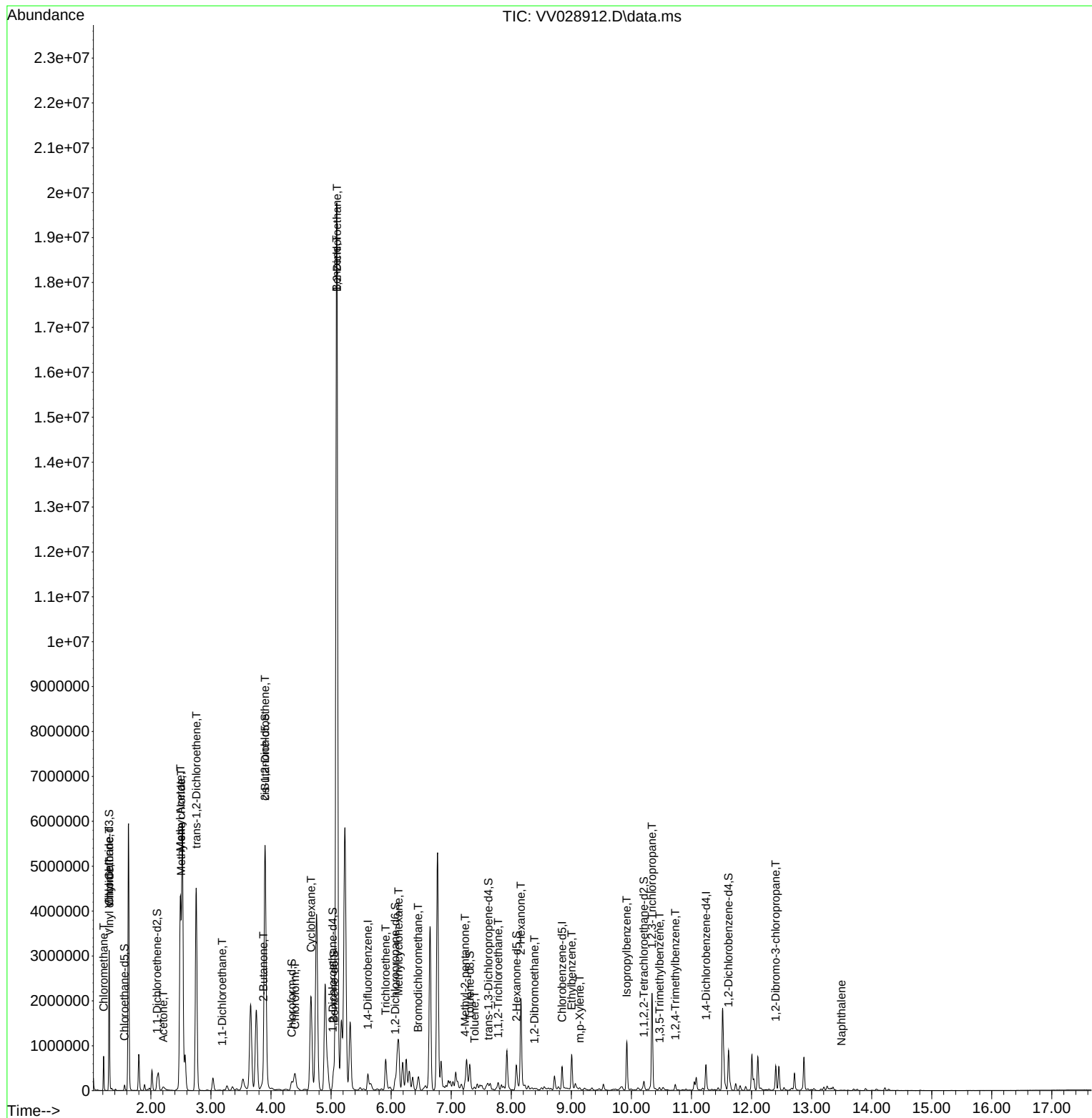
45) 1,1,2-Trichloroethane	7.783	97	69646	5.009	ug/L #	20
48) 2-Hexanone	8.159	43	112794	17.621	ug/L #	1
50) 1,2-Dibromoethane	8.384	107	665	0.051	ug/L #	1
52) Ethylbenzene	9.005	91	555105	5.359	ug/L	100
53) m,p-Xylene	9.140	106	9909	0.241	ug/L	89
60) Isopropylbenzene	9.924	105	712490	6.974	ug/L	99
61) 1,2,3-Trichloropropane	10.342	75	9638	0.896	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.468	105	37525	0.434	ug/L #	27
63) 1,2,4-Trimethylbenzene	10.731	105	78719	0.908	ug/L #	76
68) 1,2-Dibromo-3-chloropr...	12.403	75	2142	1.012	ug/L #	2
71) Naphthalene	13.500	128	5045	0.140	ug/L #	93

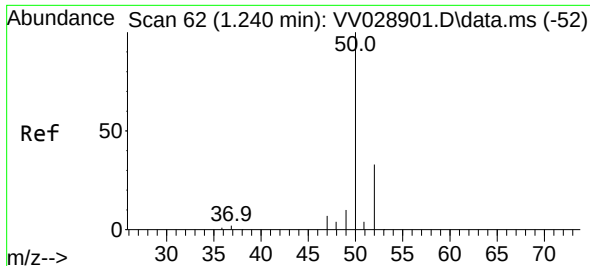
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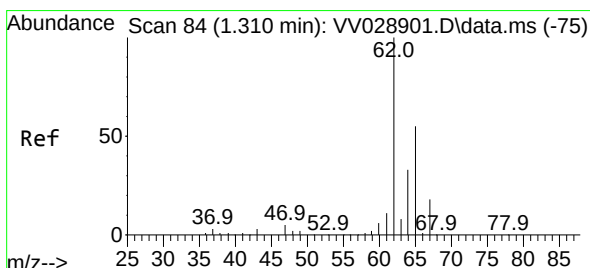
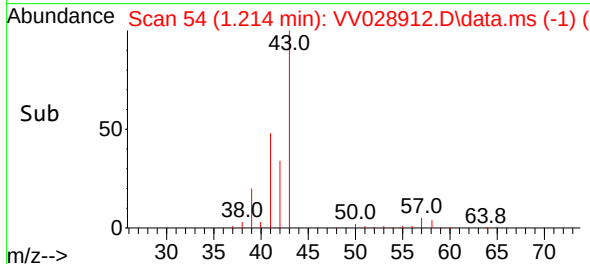
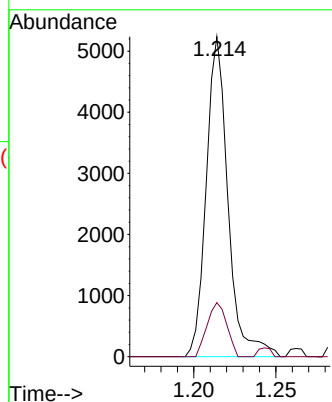
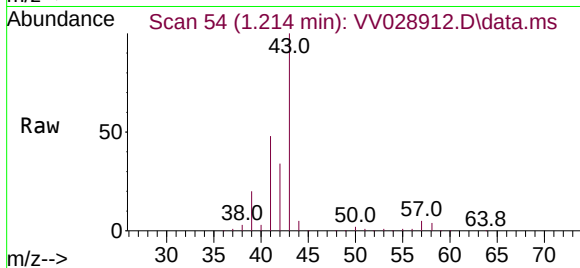




#3
Chloromethane
Concen: 0.212 ug/L
RT: 1.214 min Scan# 54
Delta R.T. -0.026 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

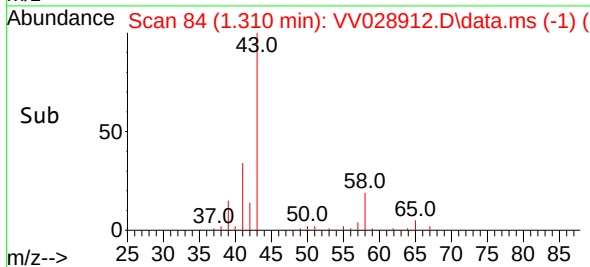
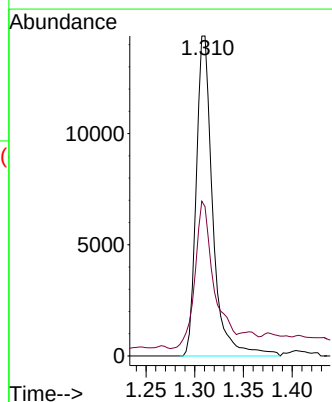
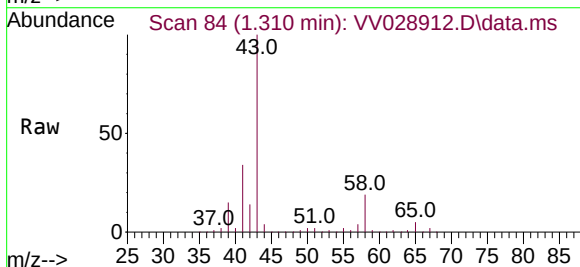
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MSVOA_V
ClientSampleId :
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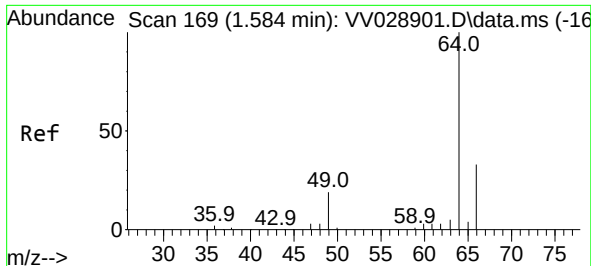
Tgt Ion: 50 Resp: 4824
Ion Ratio Lower Upper
50 100
52 16.9 23.7 43.9#



#5
Vinyl chloride
Concen: 0.652 ug/L
RT: 1.310 min Scan# 84
Delta R.T. 0.000 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 62 Resp: 16933
Ion Ratio Lower Upper
62 100
64 46.7 22.8 42.4#

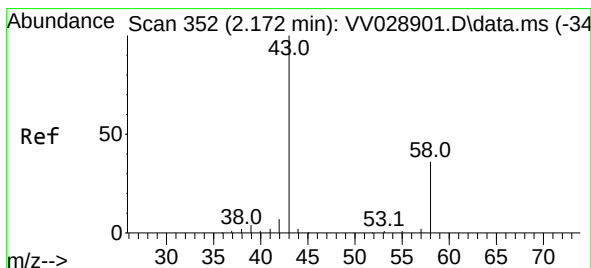
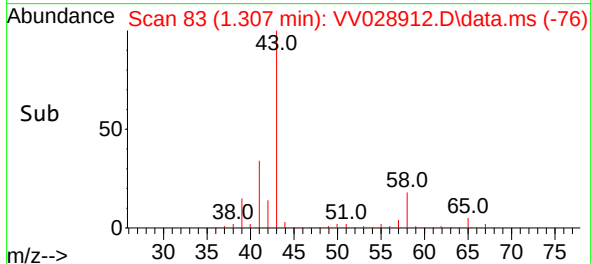
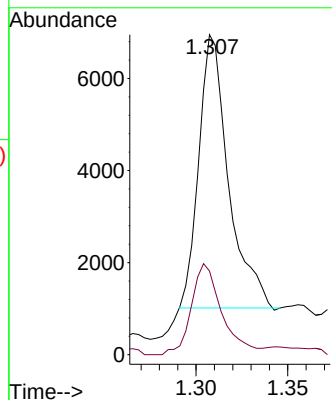
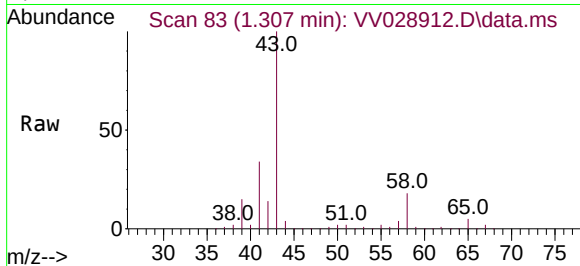




#8
Chloroethane
Concen: 0.438 ug/L
RT: 1.307 min Scan# 81
Delta R.T. -0.276 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

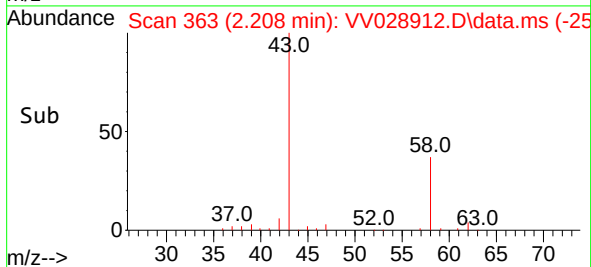
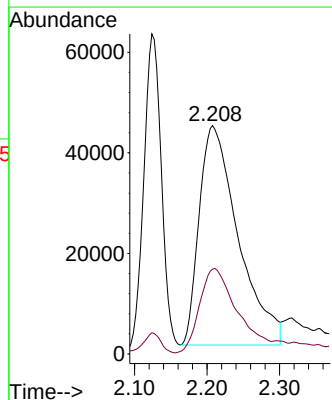
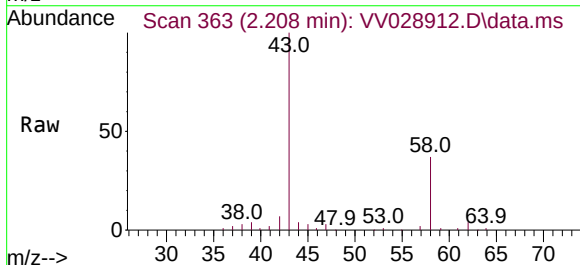
Instrument :
MSVOA_V
ClientSampleId :
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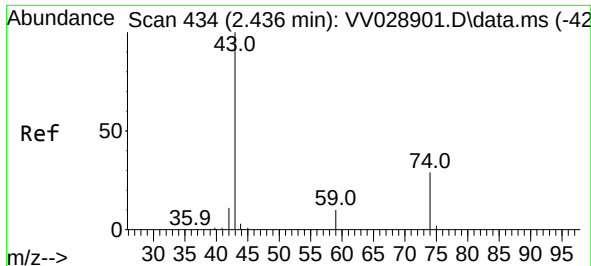
Tgt Ion: 64 Resp: 6688
Ion Ratio Lower Upper
64 100
66 26.2 22.0 40.8



#13
Acetone
Concen: 75.547 ug/L
RT: 2.208 min Scan# 363
Delta R.T. 0.035 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 43 Resp: 163299
Ion Ratio Lower Upper
43 100
58 37.1 0.0 56.6

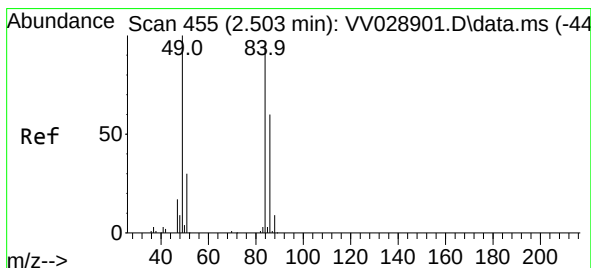
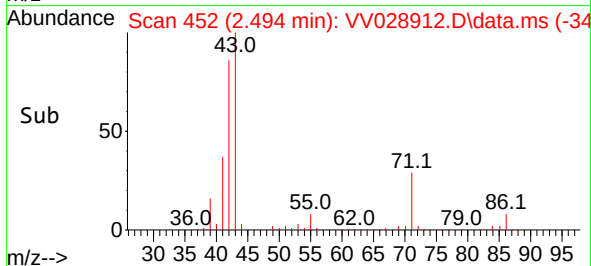
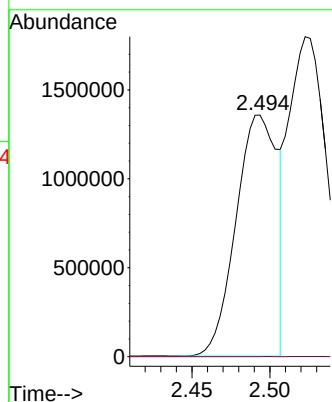
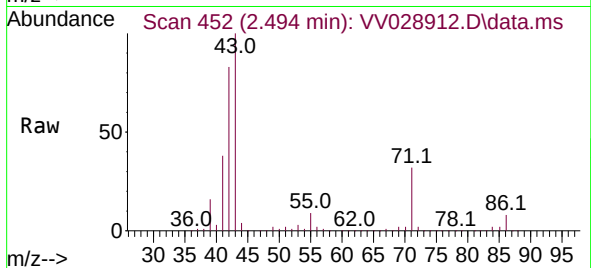




#15
Methyl Acetate
Concen: 478.070 ug/L
RT: 2.494 min Scan# 411
Delta R.T. 0.058 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

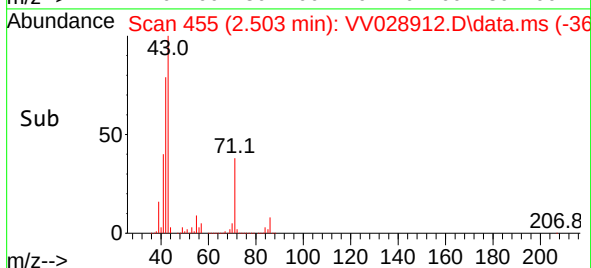
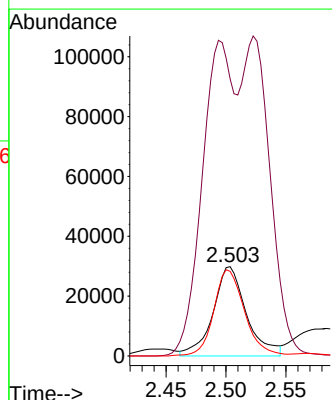
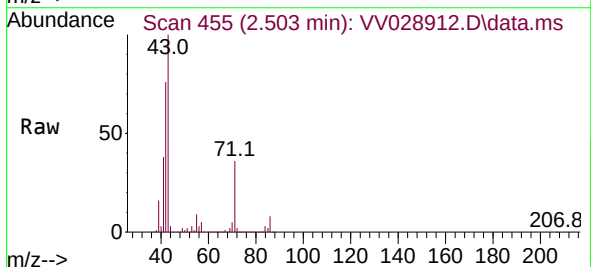
Instrument :
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ClientSampleId :
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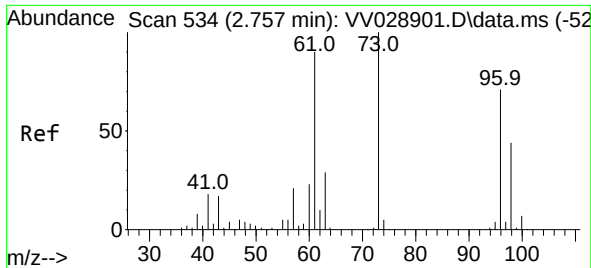
Tgt Ion: 43 Resp: 2507888
Ion Ratio Lower Upper
43 100
74 0.0 24.6 37.0#



#16
Methylene chloride
Concen: 2.247 ug/L
RT: 2.503 min Scan# 455
Delta R.T. 0.000 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 84 Resp: 57910
Ion Ratio Lower Upper
84 100
86 310.1 45.8 85.0#
49 94.7 75.5 140.1

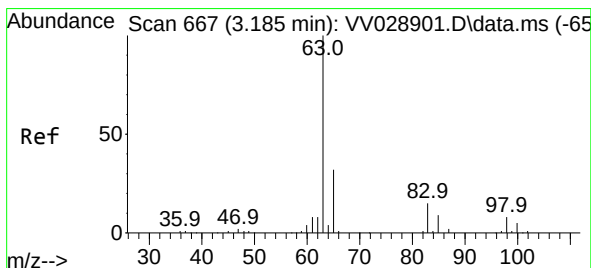
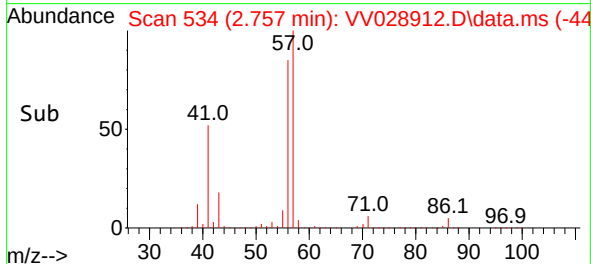
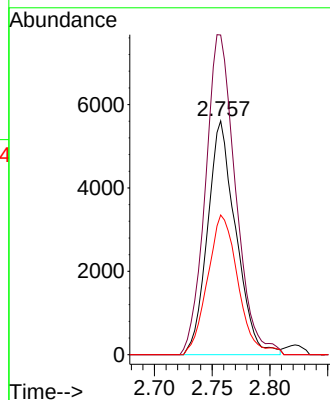
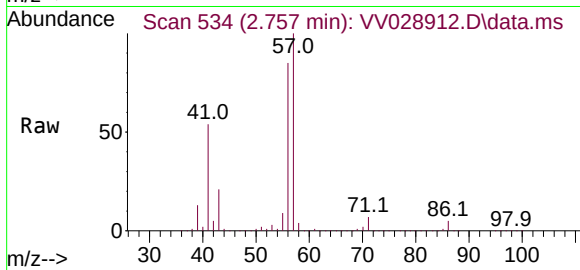




#18
trans-1,2-Dichloroethene
Concen: 0.413 ug/L
RT: 2.757 min Scan# 511
Delta R.T. 0.000 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

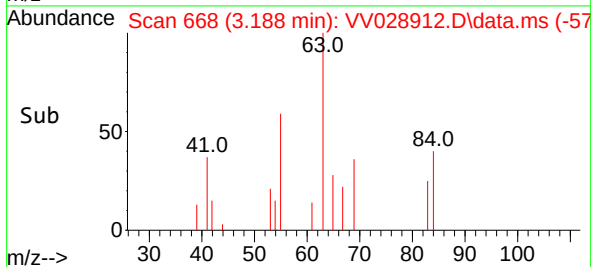
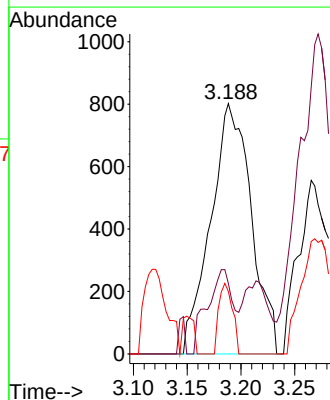
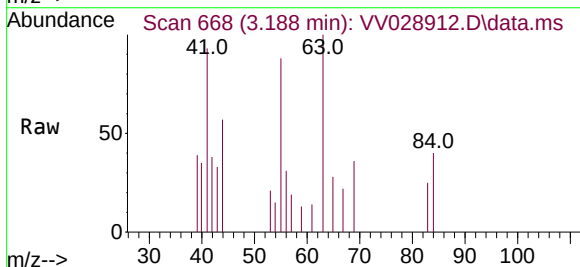
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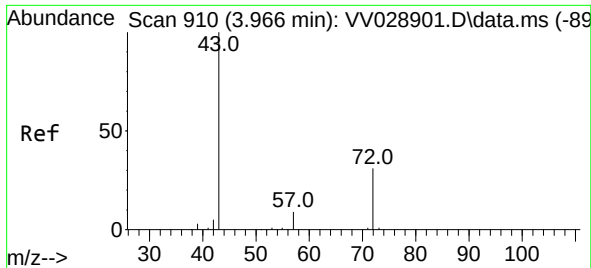
Tgt Ion: 96 Resp: 9548
Ion Ratio Lower Upper
96 100
61 136.8 91.8 170.6
98 59.8 46.4 86.2



#19
1,1-Dichloroethane
Concen: 0.056 ug/L
RT: 3.188 min Scan# 668
Delta R.T. 0.003 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 63 Resp: 2106
Ion Ratio Lower Upper
63 100
65 28.2 23.0 42.6
83 24.9 9.4 17.6#

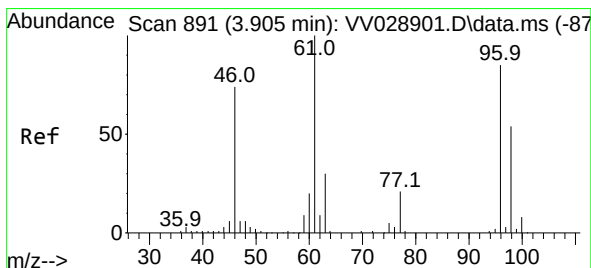
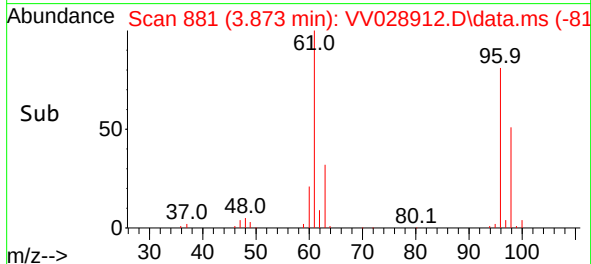
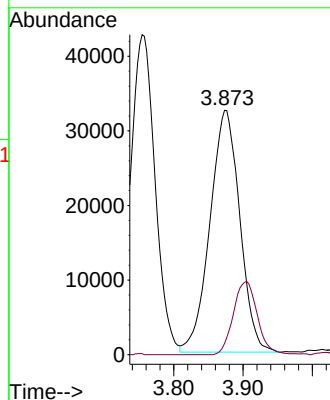
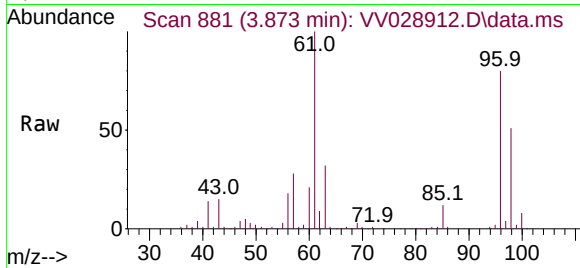




#21
2-Butanone
Concen: 29.018 ug/L
RT: 3.873 min Scan# 81
Delta R.T. -0.093 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

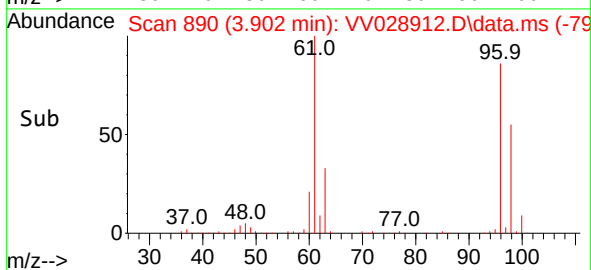
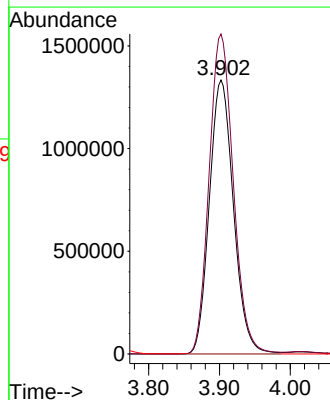
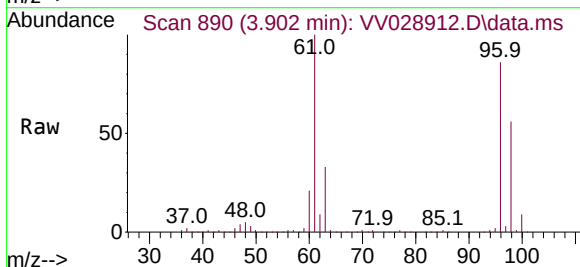
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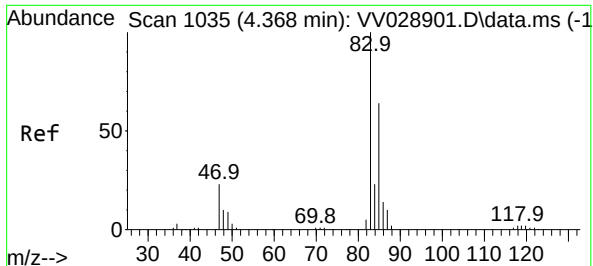
Tgt Ion: 43 Resp: 97110
Ion Ratio Lower Upper
43 100
72 24.4 11.9 35.9



#22
cis-1,2-Dichloroethene
Concen: 134.283 ug/L
RT: 3.902 min Scan# 890
Delta R.T. -0.003 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 96 Resp: 3156023
Ion Ratio Lower Upper
96 100
61 116.8 82.3 152.9
68 0.0 0.0 0.0





#25

Chloroform

Concen: 1.153 ug/L

RT: 4.400 min Scan# 1045

Delta R.T. 0.032 min

Lab File: VV028912.D

Acq: 12 Nov 2022 06:40

Instrument :

MSVOA_V

ClientSampleId :

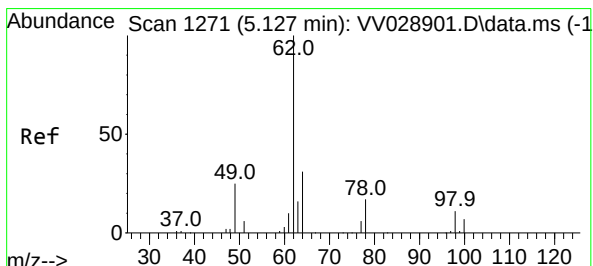
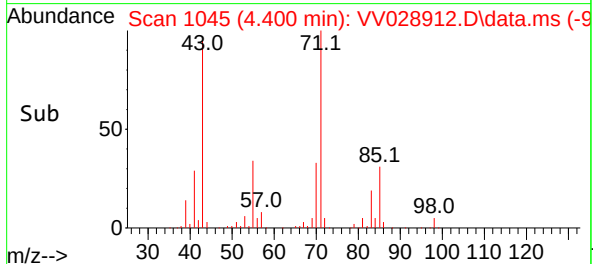
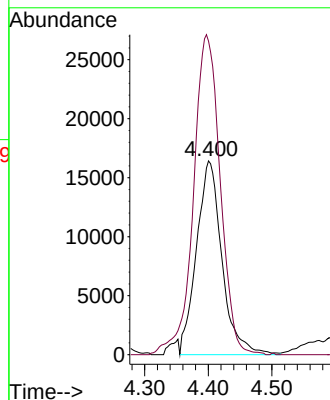
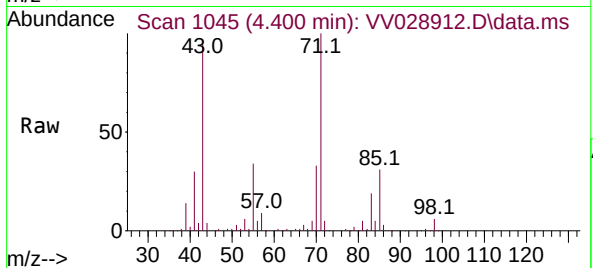
GBMY2

Tgt Ion: 83 Resp: 45678

Ion Ratio Lower Upper

83 100

85 161.8 43.7 81.1#



#27

1,2-Dichloroethane

Concen: 13.750 ug/L

RT: 5.098 min Scan# 1262

Delta R.T. -0.029 min

Lab File: VV028912.D

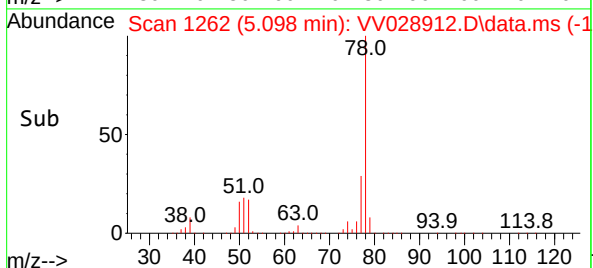
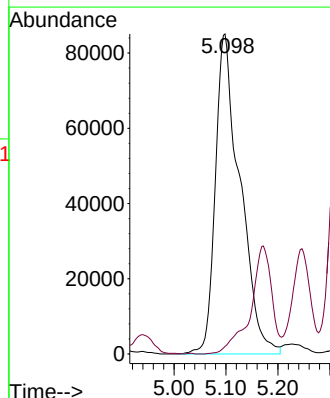
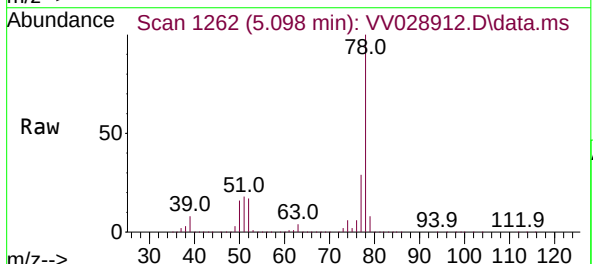
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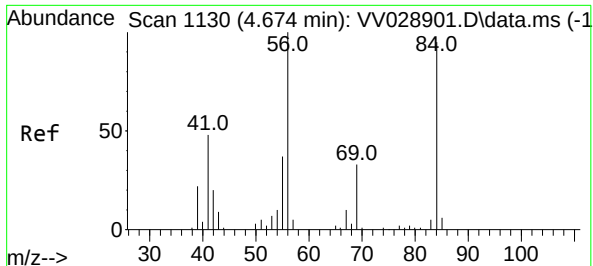
Tgt Ion: 62 Resp: 280570

Ion Ratio Lower Upper

62 100

98 2.3 9.0 13.6#

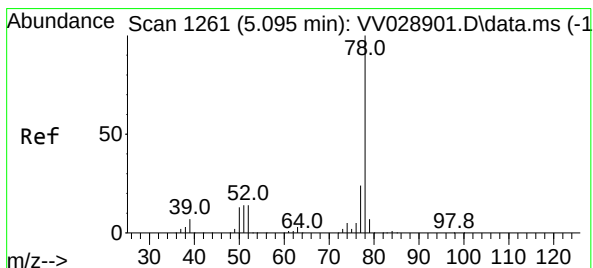
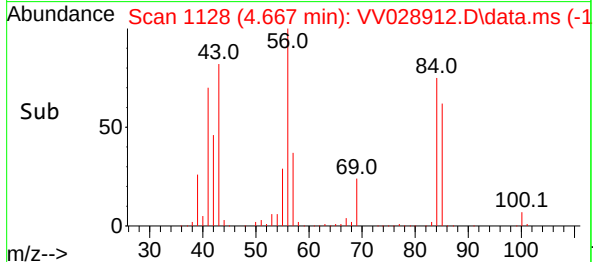
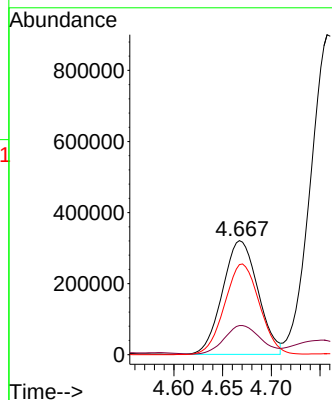
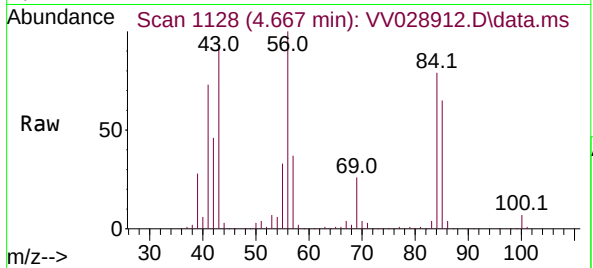




#30
Cyclohexane
Concen: 22.548 ug/L
RT: 4.667 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

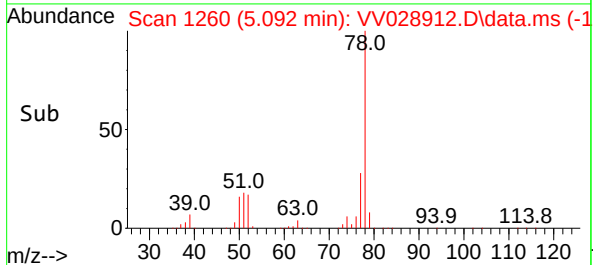
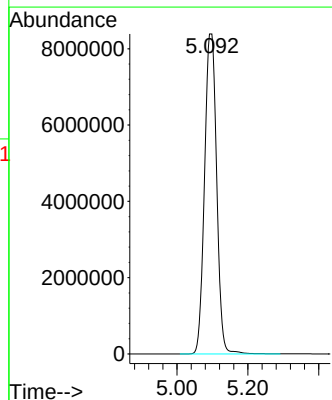
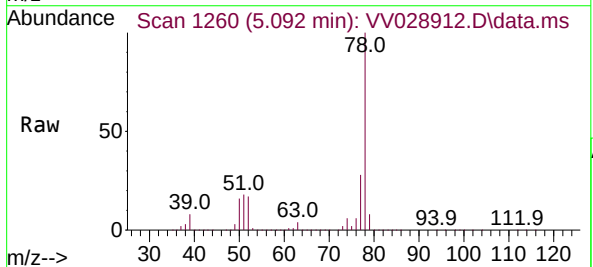
Instrument :
MSVOA_V
ClientSampleId :
GBMY2

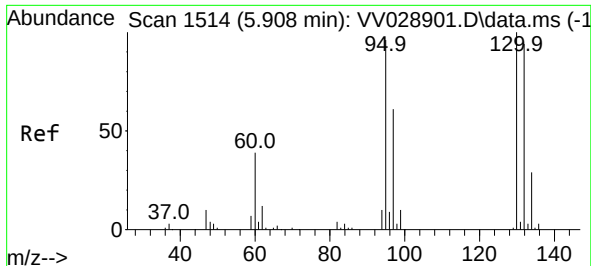
Tgt Ion: 56 Resp: 810498
Ion Ratio Lower Upper
56 100
69 25.4 26.1 39.1#
84 78.7 77.9 116.9



#33
Benzene
Concen: 216.182 ug/L
RT: 5.092 min Scan# 1260
Delta R.T. -0.003 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 78 Resp:19910515

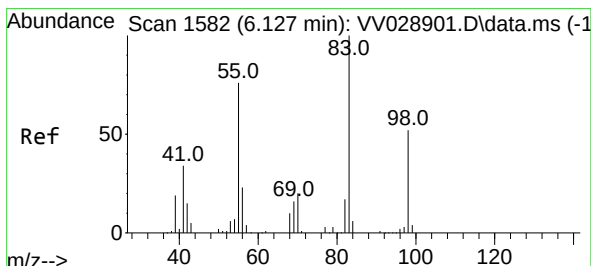
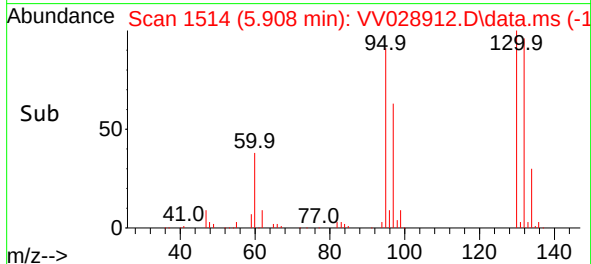
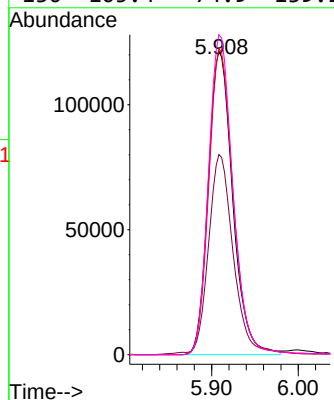
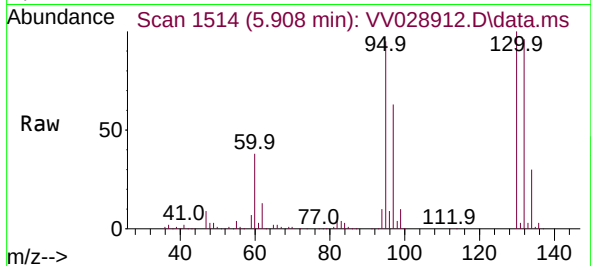




#34
Trichloroethene
Concen: 10.114 ug/L
RT: 5.908 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

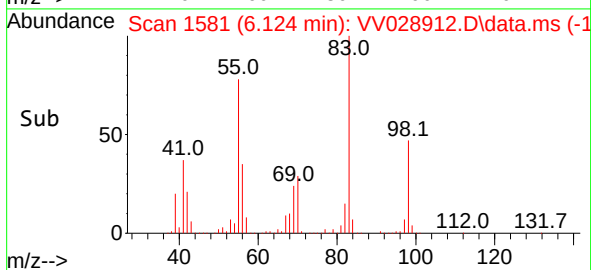
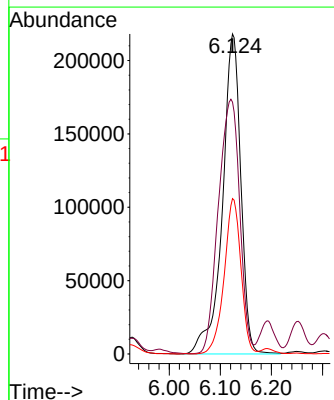
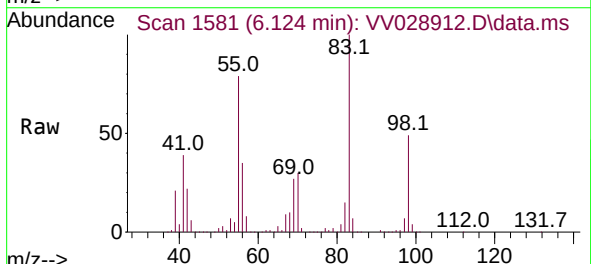
Instrument :
MSVOA_V
ClientSampleId :
GBMY2

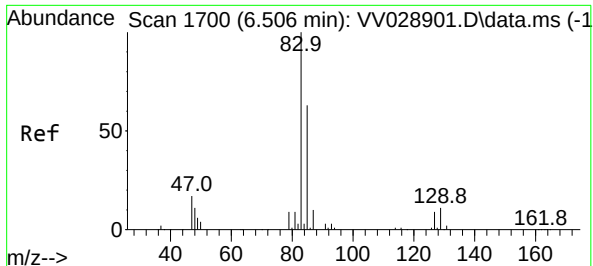
Tgt Ion: 95 Resp: 238465
Ion Ratio Lower Upper
95 100
97 66.0 45.6 84.8
132 100.8 69.1 128.3
130 105.4 74.9 139.1



#35
Methylcyclohexane
Concen: 13.162 ug/L
RT: 6.124 min Scan# 1581
Delta R.T. -0.003 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 83 Resp: 545439
Ion Ratio Lower Upper
83 100
55 91.8 55.8 83.6#
98 44.3 38.2 57.2





#38

Bromodichloromethane

Concen: 0.368 ug/L

RT: 6.452 min Scan# 1

Delta R.T. -0.055 min

Lab File: VV028912.D

Acq: 12 Nov 2022 06:40

Instrument :

MSVOA_V

ClientSampleId :

GBMY2

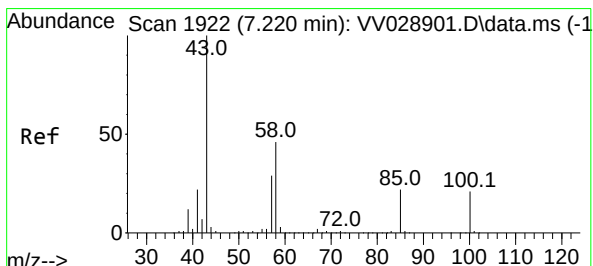
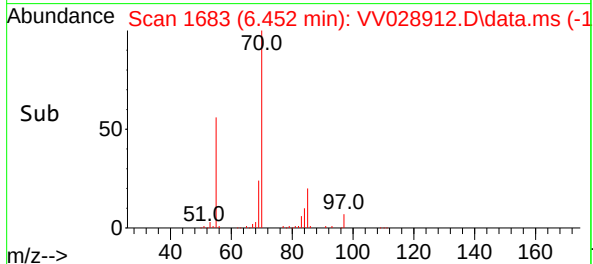
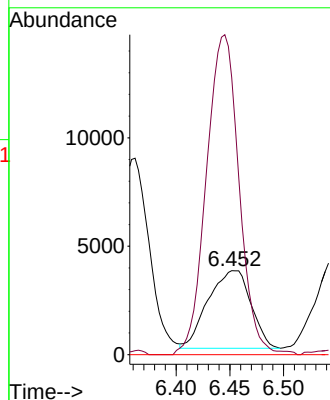
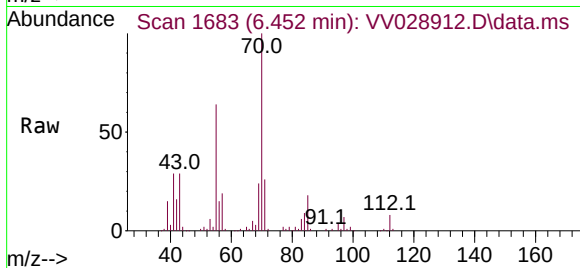
Tgt Ion: 83 Resp: 9901

Ion Ratio Lower Upper

83 100

85 329.8 46.1 85.5#

127 0.0 6.7 10.1#



#40

4-Methyl-2-pentanone

Concen: 16.779 ug/L

RT: 7.230 min Scan# 1925

Delta R.T. 0.010 min

Lab File: VV028912.D

Acq: 12 Nov 2022 06:40

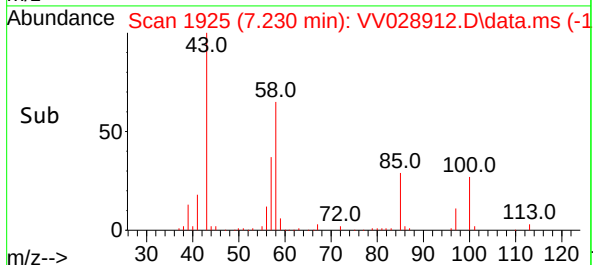
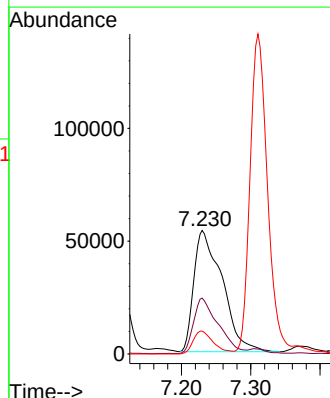
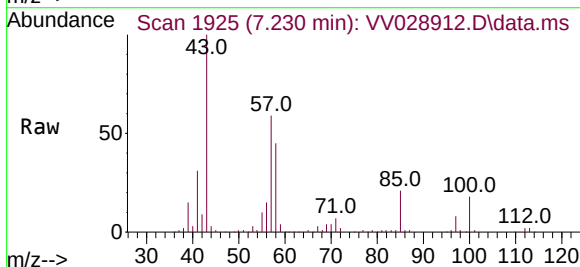
Tgt Ion: 43 Resp: 153327

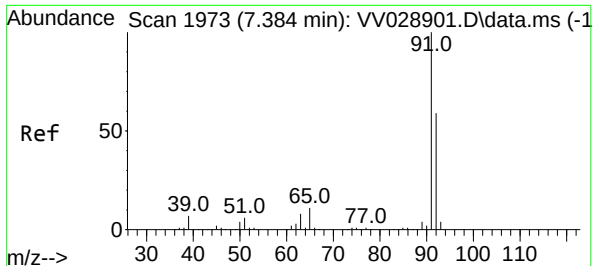
Ion Ratio Lower Upper

43 100

58 39.5 36.6 55.0

100 13.6 14.5 21.7#





#42

Toluene

Concen: 0.377 ug/L

RT: 7.391 min Scan# 1973

Delta R.T. 0.006 min

Lab File: VV028912.D

Acq: 12 Nov 2022 06:40

Instrument :

MSVOA_V

ClientSampleId :

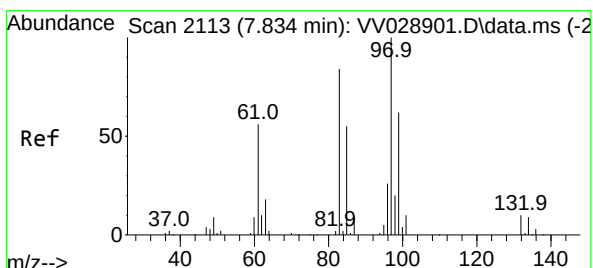
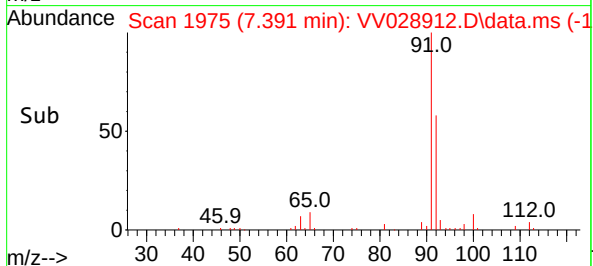
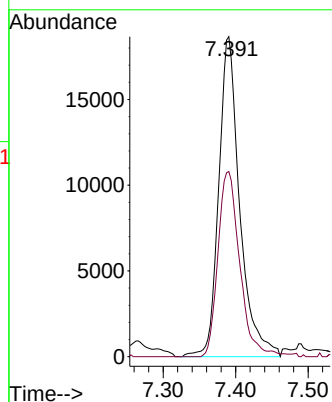
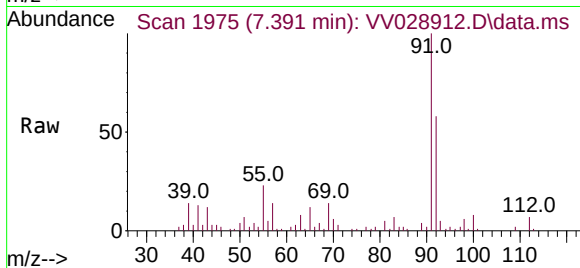
GBMY2

Tgt Ion: 91 Resp: 37538

Ion Ratio Lower Upper

91 100

92 57.8 40.7 75.5



#45

1,1,2-Trichloroethane

Concen: 5.009 ug/L

RT: 7.783 min Scan# 2097

Delta R.T. -0.051 min

Lab File: VV028912.D

Acq: 12 Nov 2022 06:40

Tgt Ion: 97 Resp: 69646

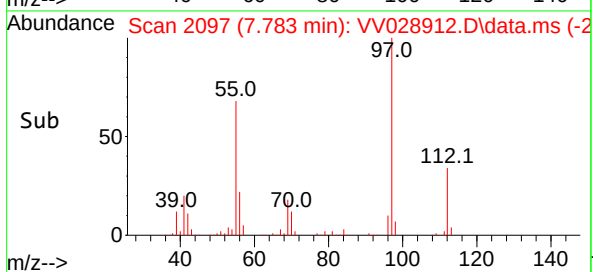
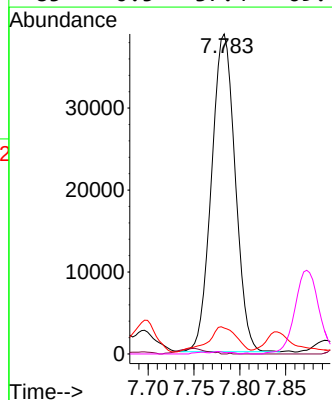
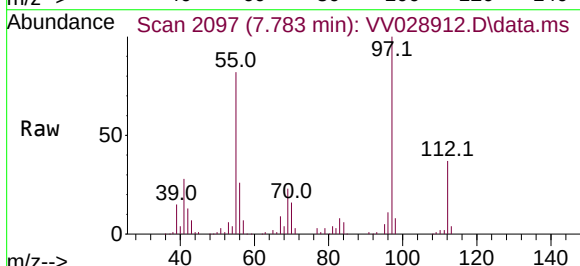
Ion Ratio Lower Upper

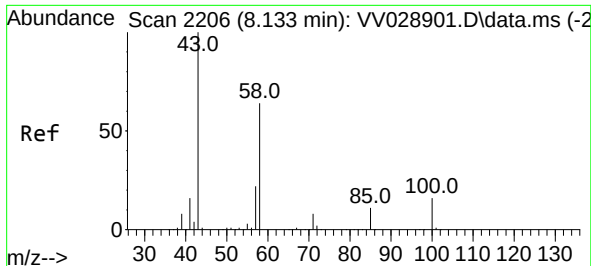
97 100

99 0.0 41.5 77.1#

83 8.1 60.0 111.4#

85 0.5 37.4 69.4#

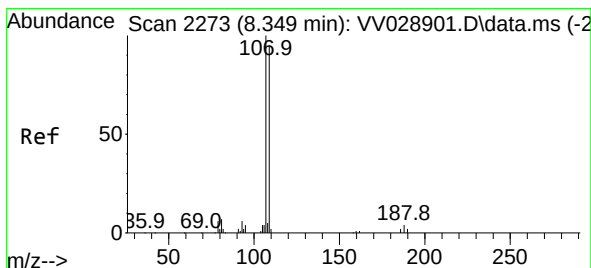
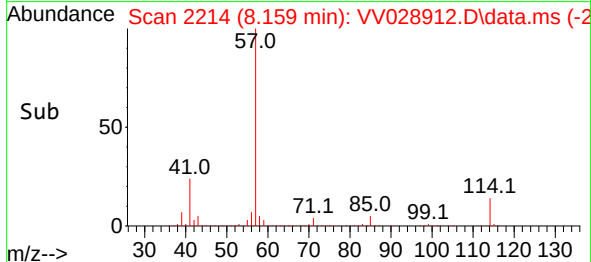
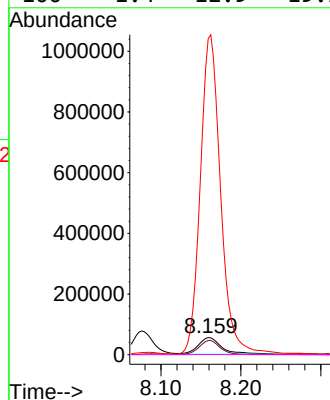
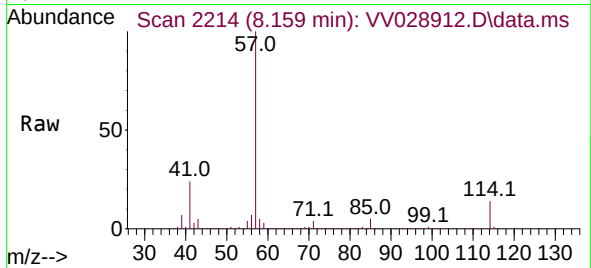




#48
2-Hexanone
Concen: 17.621 ug/L
RT: 8.159 min Scan# 211
Delta R.T. 0.026 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

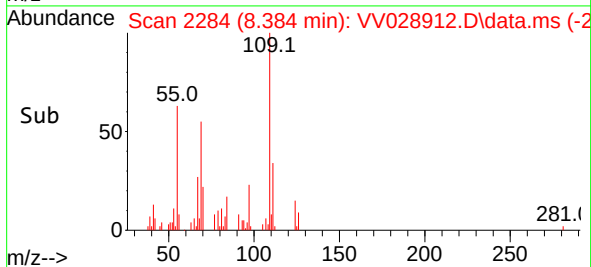
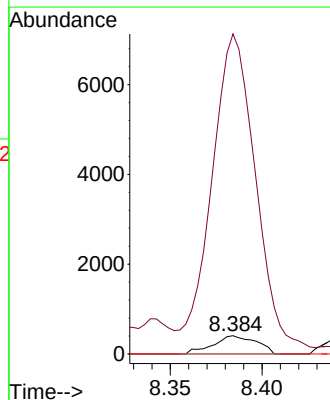
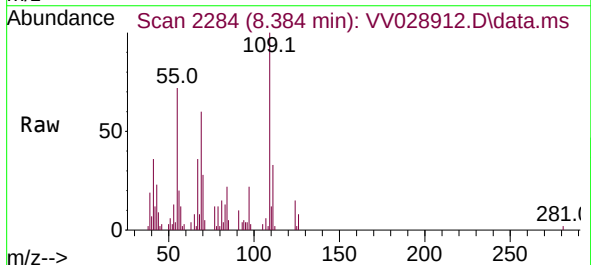
Instrument :
MSVOA_V
ClientSampleId :
GBMY2

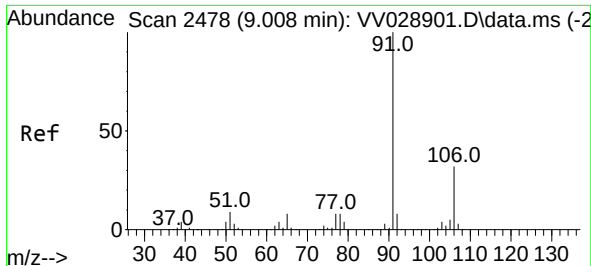
Tgt Ion: 43 Resp: 112794
Ion Ratio Lower Upper
43 100
58 73.4 50.2 75.4
57 1649.8 17.8 26.8#
100 1.4 12.9 19.3#



#50
1,2-Dibromoethane
Concen: 0.051 ug/L
RT: 8.384 min Scan# 2284
Delta R.T. 0.035 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 107 Resp: 665
Ion Ratio Lower Upper
107 100
109 1747.1 64.4 119.6#
188 0.0 2.9 4.3#

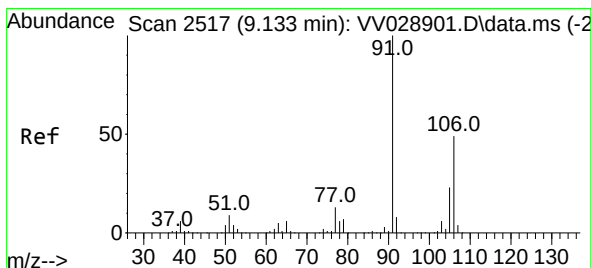
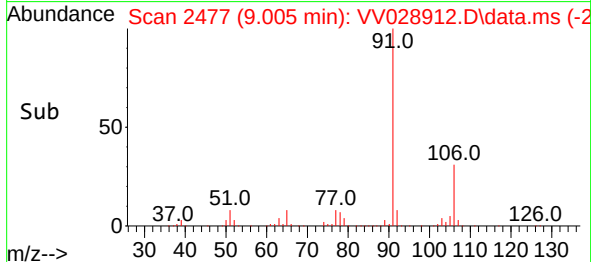
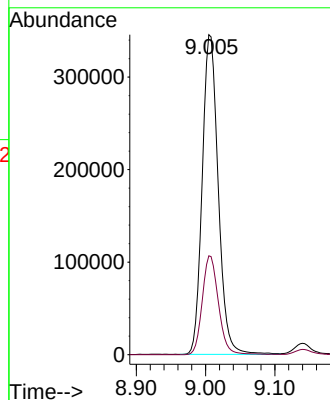
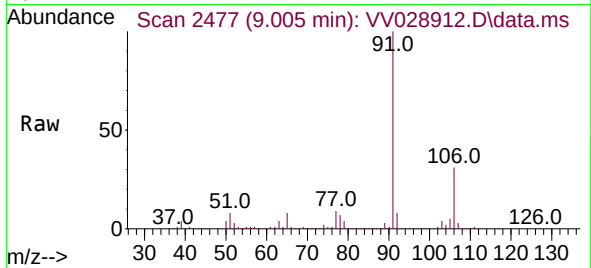




#52
Ethylbenzene
Concen: 5.359 ug/L
RT: 9.005 min Scan# 2478
Delta R.T. -0.003 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

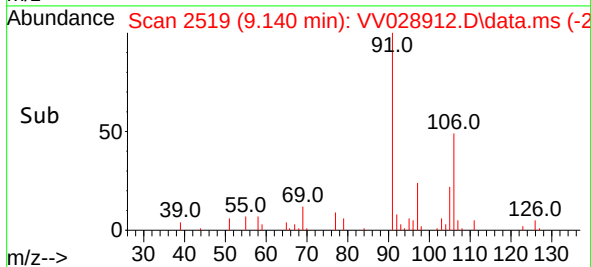
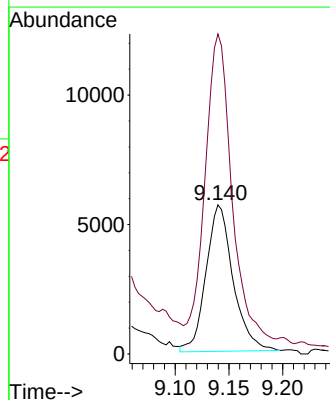
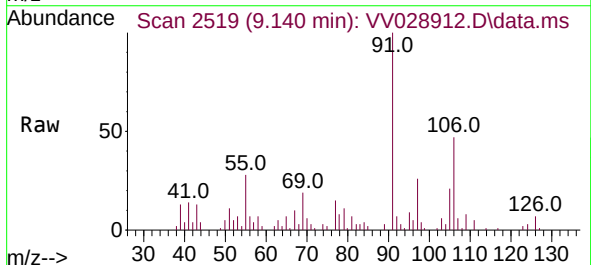
Instrument :
MSVOA_V
ClientSampleId :
GBMY2

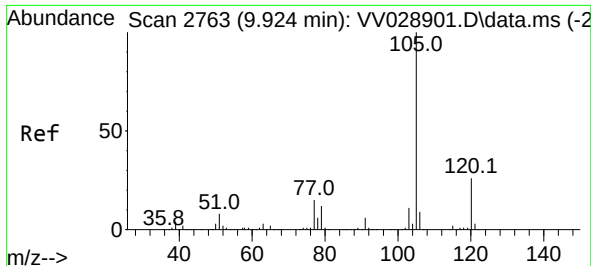
Tgt Ion: 91 Resp: 555105
Ion Ratio Lower Upper
91 100
106 30.9 21.6 40.2



#53
m,p-Xylene
Concen: 0.241 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. 0.006 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 106 Resp: 9909
Ion Ratio Lower Upper
106 100
91 214.6 139.1 258.3

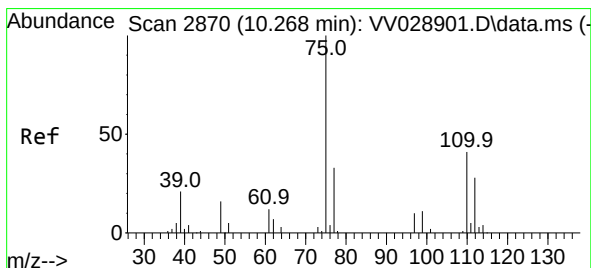
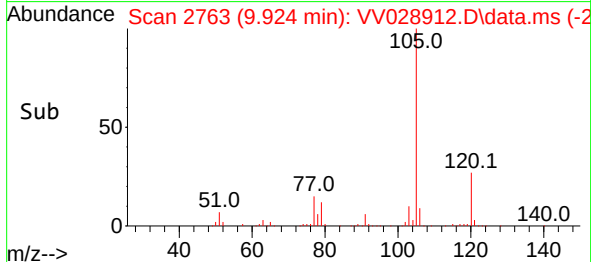
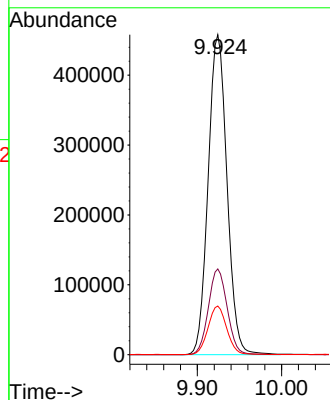
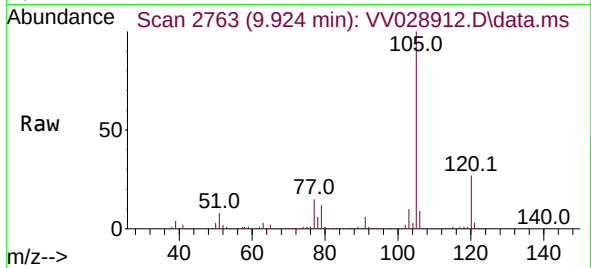




#60
Isopropylbenzene
Concen: 6.974 ug/L
RT: 9.924 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

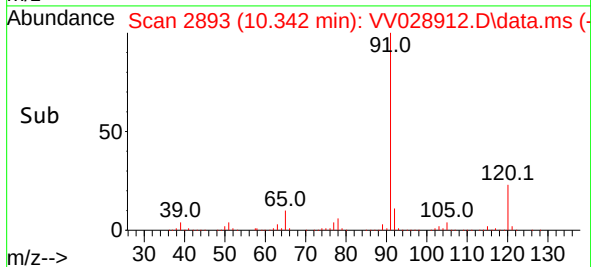
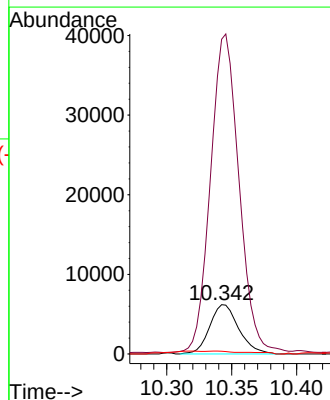
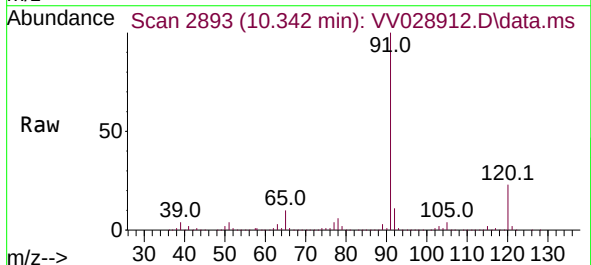
Instrument :
MSVOA_V
ClientSampleId :
GBMY2

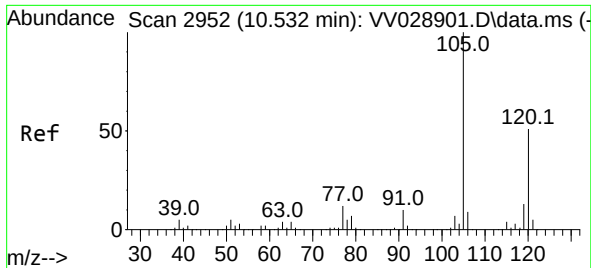
Tgt Ion:105 Resp: 712490
Ion Ratio Lower Upper
105 100
120 26.8 21.3 31.9
77 15.1 11.8 17.8



#61
1,2,3-Trichloropropane
Concen: 0.896 ug/L
RT: 10.342 min Scan# 2893
Delta R.T. 0.074 min
Lab File: VV028912.D
Acq: 12 Nov 2022 06:40

Tgt Ion: 75 Resp: 9638
Ion Ratio Lower Upper
75 100
77 632.2 26.2 39.2#
110 7.2 32.6 48.8#

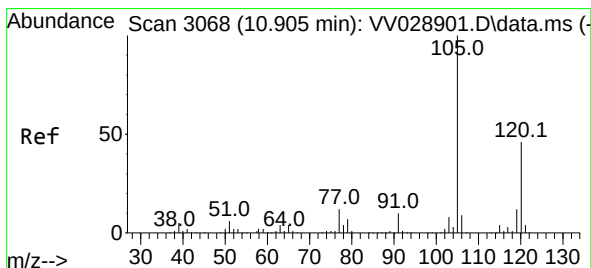
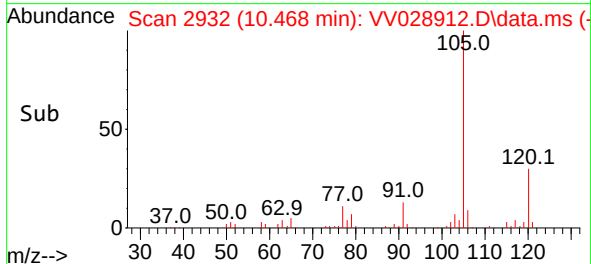
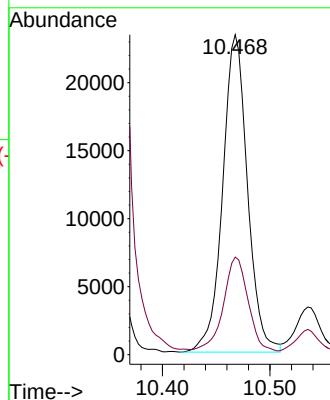
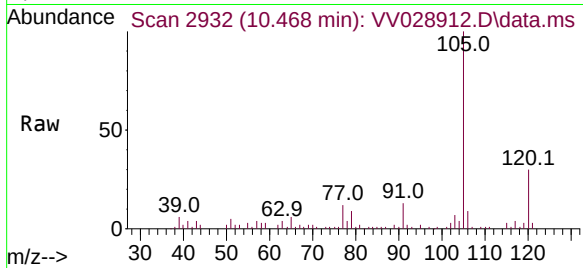




#62
 1,3,5-Trimethylbenzene
 Concen: 0.434 ug/L
 RT: 10.468 min Scan# 2952
 Delta R.T. -0.064 min
 Lab File: VV028912.D
 Acq: 12 Nov 2022 06:40

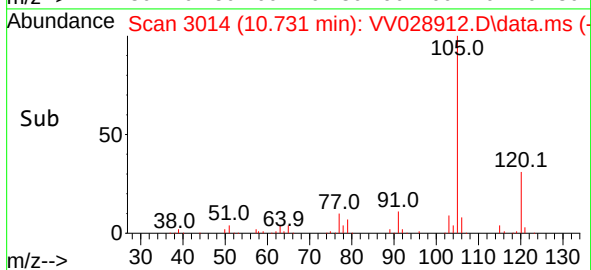
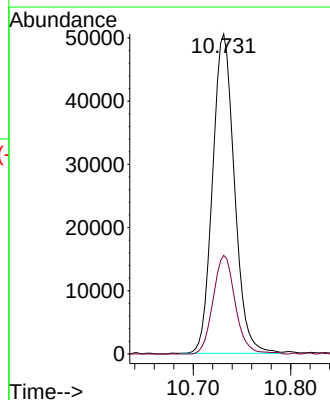
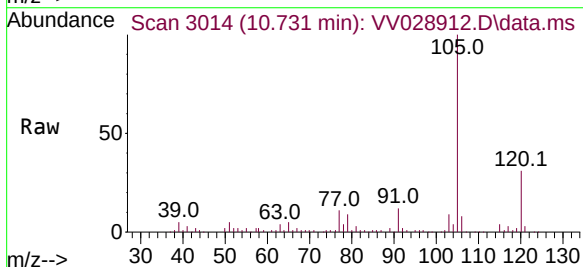
Instrument :
 MSVOA_V
 ClientSampleId :
 GBMY2

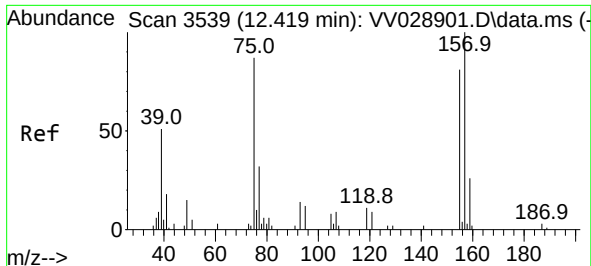
Tgt Ion:105 Resp: 37525
 Ion Ratio Lower Upper
 105 100
 120 0.0 39.9 59.9#



#63
 1,2,4-Trimethylbenzene
 Concen: 0.908 ug/L
 RT: 10.731 min Scan# 3014
 Delta R.T. -0.174 min
 Lab File: VV028912.D
 Acq: 12 Nov 2022 06:40

Tgt Ion:105 Resp: 78719
 Ion Ratio Lower Upper
 105 100
 120 31.3 37.8 56.8#





#68

1,2-Dibromo-3-chloropropane

Concen: 1.012 ug/L

RT: 12.403 min Scan# 3534

Delta R.T. -0.016 min

Lab File: VV028912.D

Acq: 12 Nov 2022 06:40

Instrument :

MSVOA_V

ClientSampleId :

GBMY2

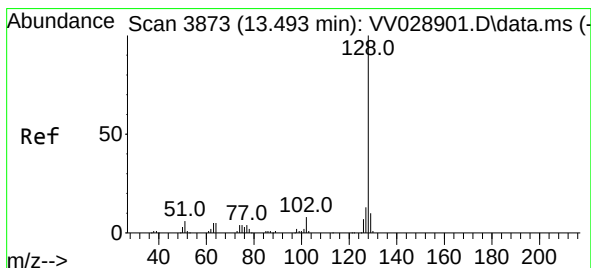
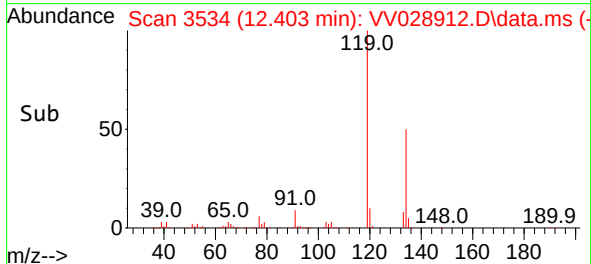
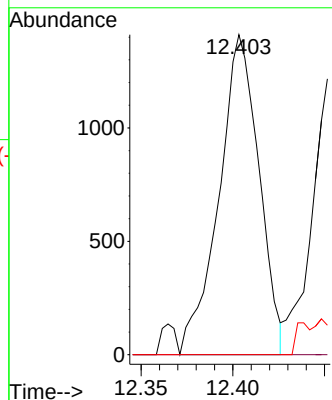
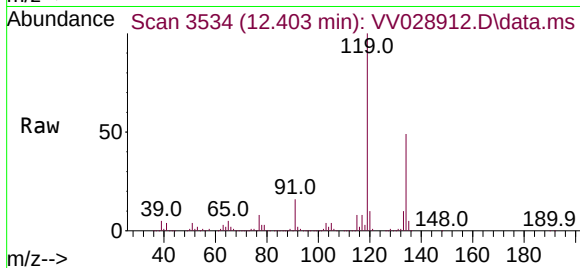
Tgt Ion: 75 Resp: 2142

Ion Ratio Lower Upper

75 100

155 0.0 64.8 97.2#

157 0.0 86.3 129.5#



#71

Naphthalene

Concen: 0.140 ug/L

RT: 13.500 min Scan# 3875

Delta R.T. 0.006 min

Lab File: VV028912.D

Acq: 12 Nov 2022 06:40

Tgt Ion: 128 Resp: 5045

Ion Ratio Lower Upper

128 100

129 7.6 8.8 13.2#

127 14.4 9.8 14.8

