

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020223\
 Data File : VU052932.D
 Acq On : 02 Feb 2023 17:46
 Operator : JC/MD
 Sample : 01381-22
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A44M5

Quant Time: Feb 03 00:27:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 03 00:24:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	1213	50.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.417	117	1897	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	2871	50.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	154	17.639	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	35.280%#
7) Chloroethane-d5	1.909	69	152	21.129	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	42.260%#
11) 1,1-Dichloroethene-d2	2.562	63	538	30.982	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	61.960%
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	5.063	84	190	10.197	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	20.400%#
26) 1,2-Dichloroethane-d4	5.706	65	694	58.333	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	116.660%
32) Benzene-d6	5.719	84	361	6.229	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	12.460%#
36) 1,2-Dichloropropane-d6	6.546	67	270	15.884	ug/L	-0.14
Spiked Amount	50.000	Range	70 - 120	Recovery	=	31.760%#
41) Toluene-d8	7.899	98	1456	27.589	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	55.180%#
43) trans-1,3-Dichloroprop...	8.182	79	200	23.476	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	46.960%#
47) 2-Hexanone-d5	8.655	63	44	7.367	ug/L	0.03
Spiked Amount	100.000	Range	45 - 130	Recovery	=	7.370%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	793	31.576	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	63.160%#
66) 1,2-Dichlorobenzene-d4	12.185	152	1333	23.912	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	47.820%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	714	76.218	ug/L	87
5) Vinyl chloride	1.604	62	851	82.114	ug/L	# 69
6) Bromomethane	1.854	94	141	21.573	ug/L	86
8) Chloroethane	1.944	64	99	15.209	ug/L	# 40
12) 1,1-Dichloroethene	2.571	96	584	65.082	ug/L	74
13) Acetone	2.636	43	2145	325.637	ug/L	74
14) Carbon disulfide	2.784	76	44	1.624	ug/L	# 75
16) Methylene chloride	3.038	84	2387	223.621	ug/L	93
17) trans-1,2-Dichloroethene	3.356	96	343	35.371	ug/L	# 69
18) Methyl tert-butyl Ether	3.356	73	680	23.848	ug/L	# 81
20) cis-1,2-Dichloroethene	4.658	96	139883	13510.653	ug/L	100
25) Chloroform	5.083	83	305	15.975	ug/L	# 17
33) Benzene	5.767	78	16845	260.862	ug/L	100
34) Trichloroethene	6.536	95	114943	7003.211	ug/L	96
35) Methylcyclohexane	6.751	83	150	5.774	ug/L	# 46
37) 1,2-Dichloropropane	6.533	63	268	16.881	ug/L	# 85
42) Toluene	7.967	91	345	5.213	ug/L	# 72
48) 2-Hexanone	8.700	43	213	13.461	ug/L	# 66
51) Chlorobenzene	9.443	112	586527	12881.690	ug/L	97

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

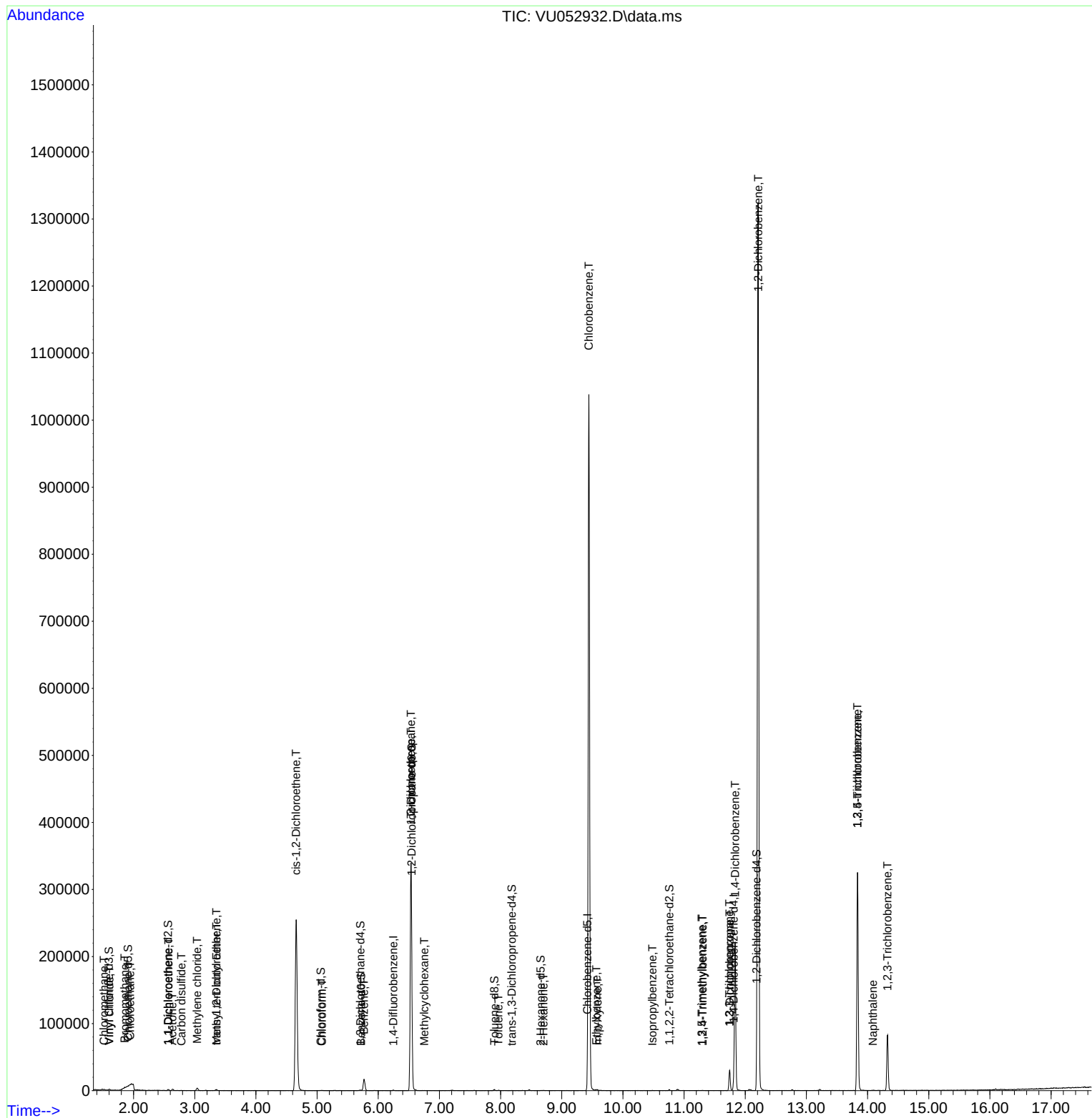
52) Ethylbenzene	9.568	91	953	13.475	ug/L	89
53) m,p-Xylene	9.584	106	106	3.702	ug/L	76
60) 1,2,3-Trichloropropane	11.741	75	3851	69.150	ug/L #	42
61) Isopropylbenzene	10.481	105	228	1.230	ug/L #	54
62) 1,3,5-Trimethylbenzene	11.288	105	236	1.529	ug/L #	27
63) 1,2,4-Trimethylbenzene	11.304	105	210	1.406	ug/L #	29
64) 1,3-Dichlorobenzene	11.745	146	13153	140.597	ug/L	97
65) 1,4-Dichlorobenzene	11.835	146	95813	989.312	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	558342	5900.627	ug/L	99
69) 1,3,5-Trichlorobenzene	13.835	180	106177	1533.082	ug/L	99
70) 1,2,4-trichlorobenzene	13.835	180	106177	1828.588	ug/L	98
71) Naphthalene	14.089	128	456	2.733	ug/L #	69
72) 1,2,3-Trichlorobenzene	14.327	180	27367	445.976	ug/L	98

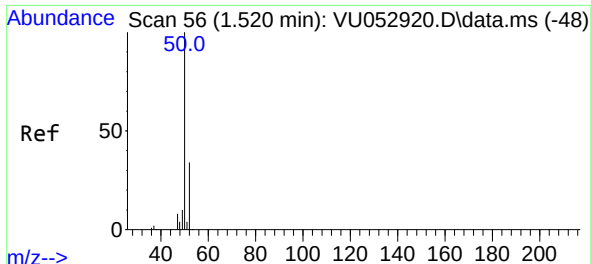
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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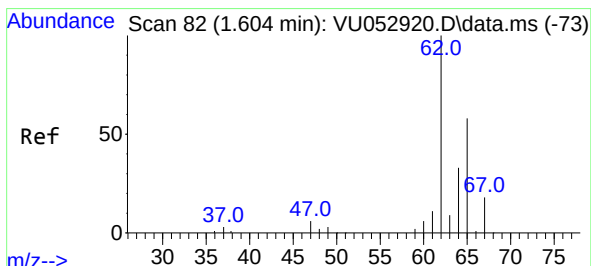
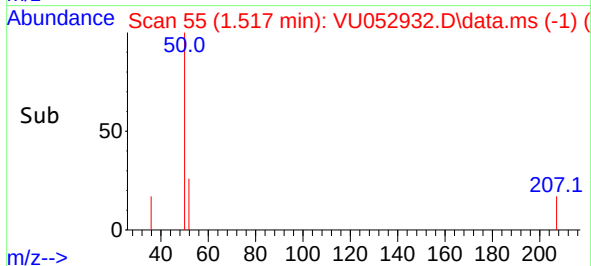
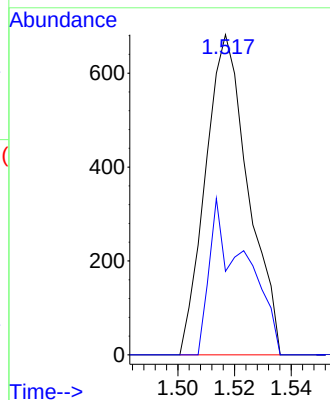
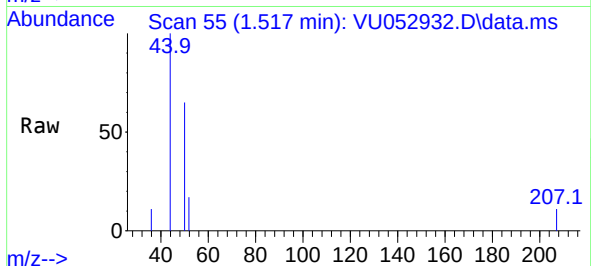




#3
Chloromethane
Concen: 76.218 ug/L
RT: 1.517 min Scan# 51
Delta R.T. -0.004 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

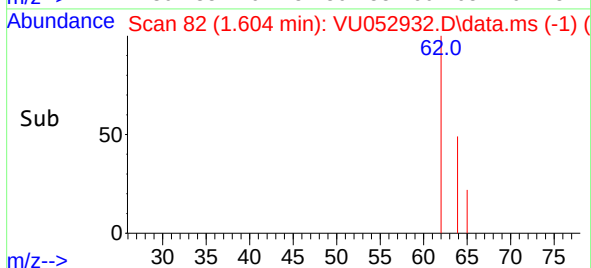
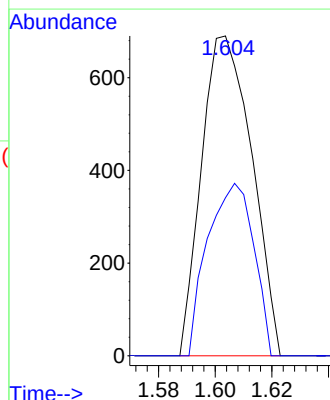
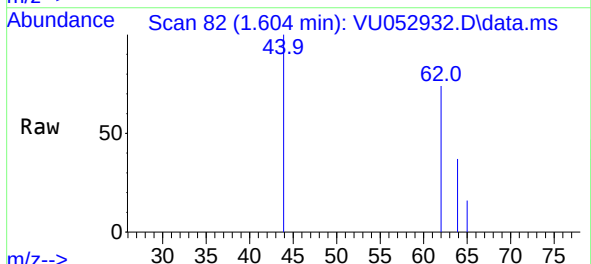
Instrument :
MSVOA_U
ClientSampleId :
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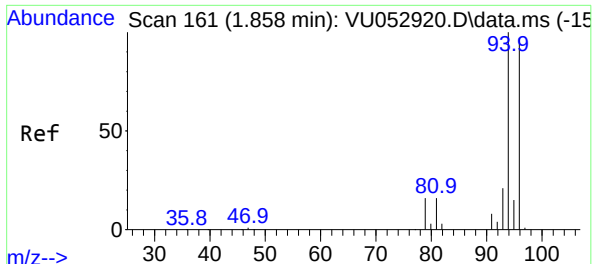
Tgt Ion: 50 Resp: 714
Ion Ratio Lower Upper
50 100
52 26.1 23.4 43.4



#5
Vinyl chloride
Concen: 82.114 ug/L
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 62 Resp: 851
Ion Ratio Lower Upper
62 100
64 49.4 22.4 41.6#

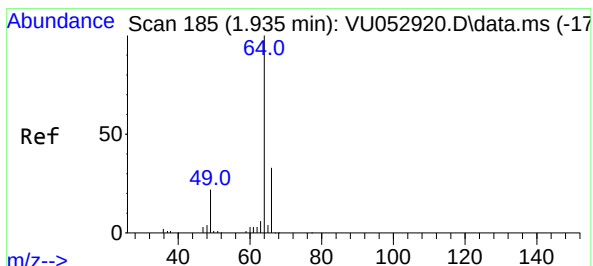
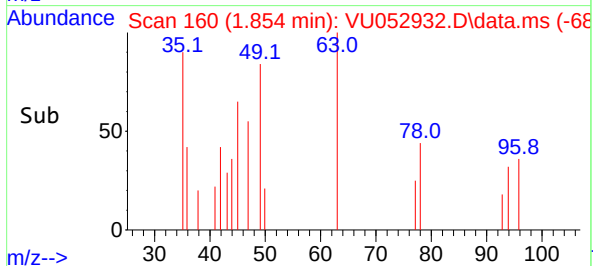
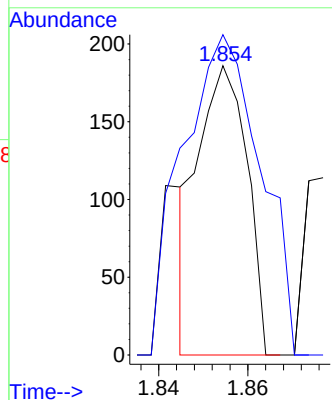
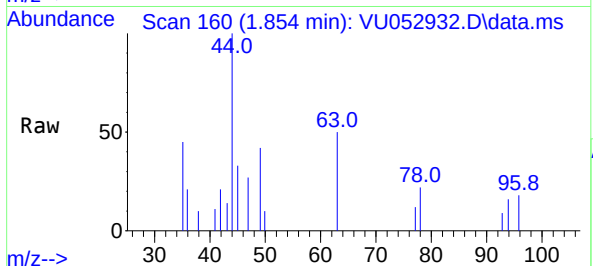




#6
Bromomethane
Concen: 21.573 ug/L
RT: 1.854 min Scan# 11
Delta R.T. -0.004 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

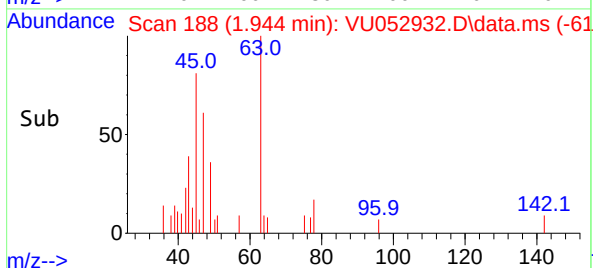
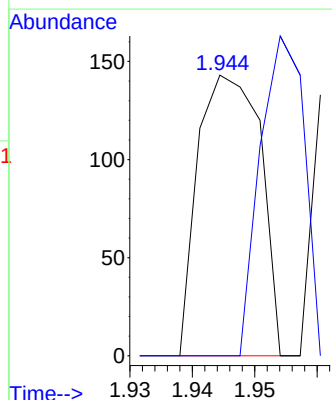
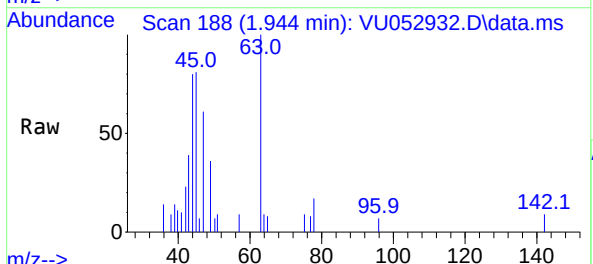
Instrument :
MSVOA_U
ClientSampleId :
A44M5

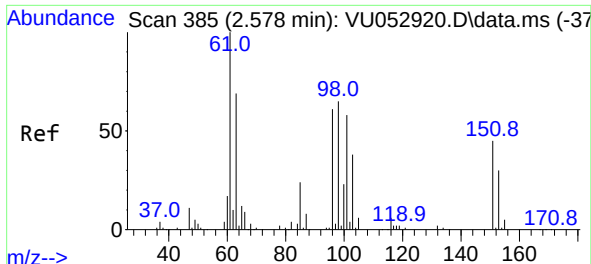
Tgt Ion: 94 Resp: 141
Ion Ratio Lower Upper
94 100
96 110.8 67.8 125.8



#8
Chloroethane
Concen: 15.209 ug/L
RT: 1.944 min Scan# 188
Delta R.T. 0.009 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 64 Resp: 99
Ion Ratio Lower Upper
64 100
66 0.0 24.1 44.7#





#12

1,1-Dichloroethene

Concen: 65.082 ug/L

RT: 2.571 min Scan# 383

Delta R.T. -0.007 min

Lab File: VU052932.D

Acq: 02 Feb 2023 17:46

Instrument :

MSVOA_U

ClientSampleId :

A44M5

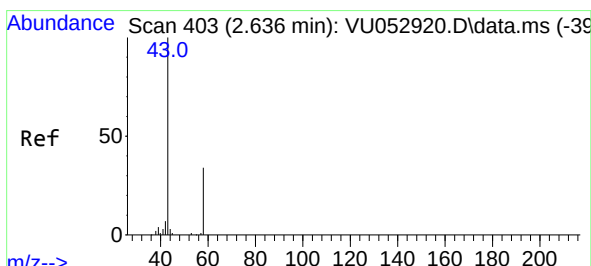
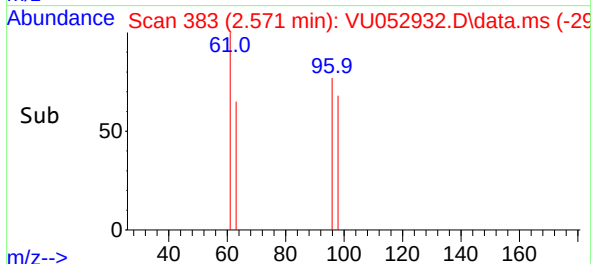
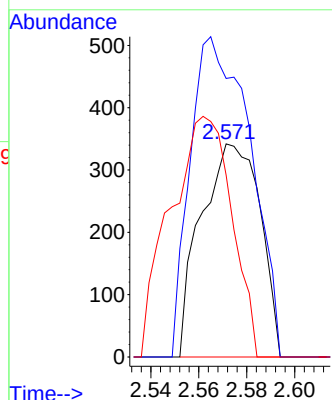
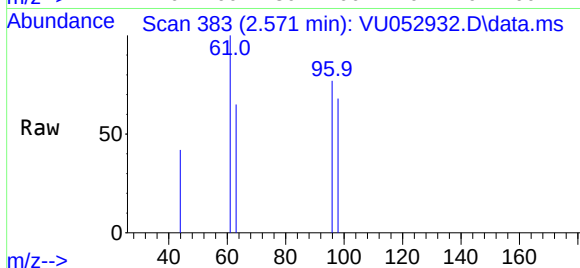
Tgt Ion: 96 Resp: 584

Ion Ratio Lower Upper

96 100

61 130.7 114.3 212.3

63 85.4 80.6 149.6



#13

Acetone

Concen: 325.637 ug/L

RT: 2.636 min Scan# 403

Delta R.T. -0.000 min

Lab File: VU052932.D

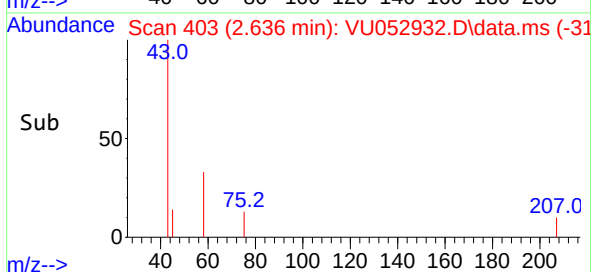
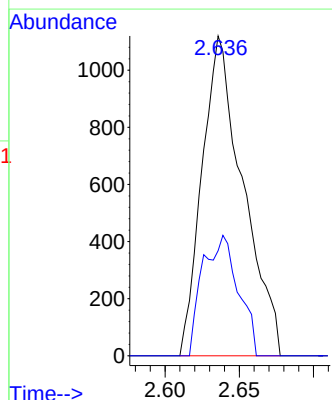
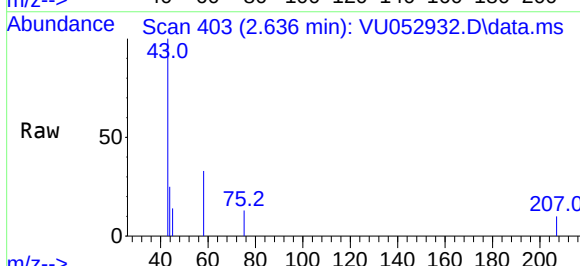
Acq: 02 Feb 2023 17:46

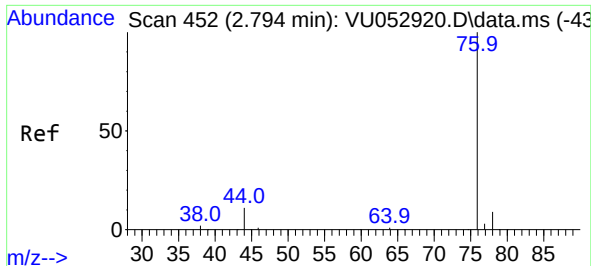
Tgt Ion: 43 Resp: 2145

Ion Ratio Lower Upper

43 100

58 20.0 0.0 70.2

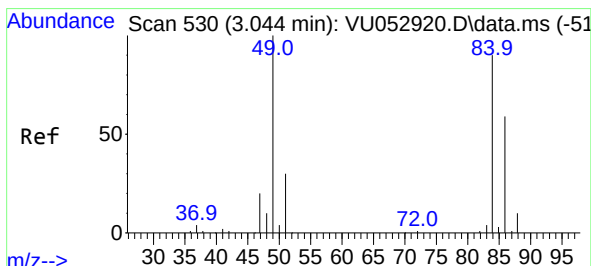
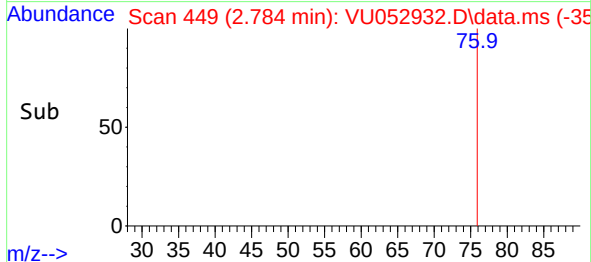
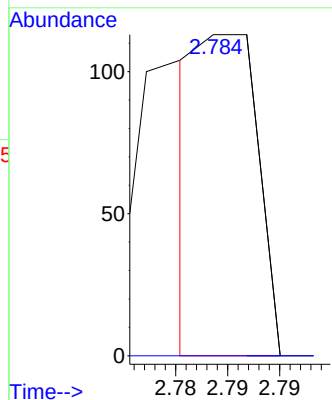
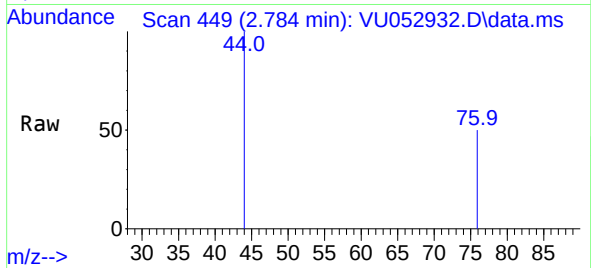




#14
Carbon disulfide
Concen: 1.624 ug/L
RT: 2.784 min Scan# 44
Delta R.T. -0.010 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

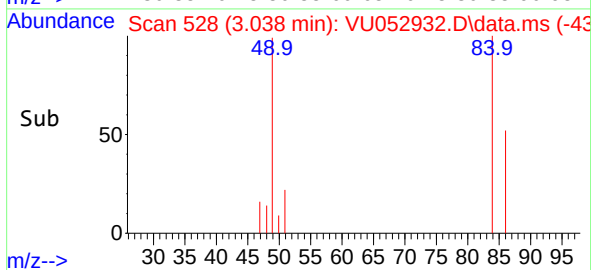
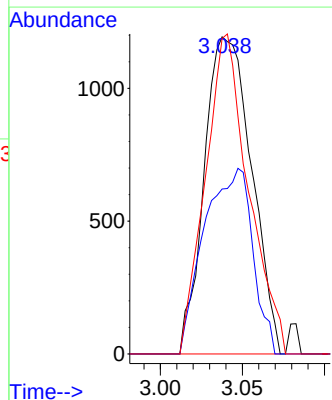
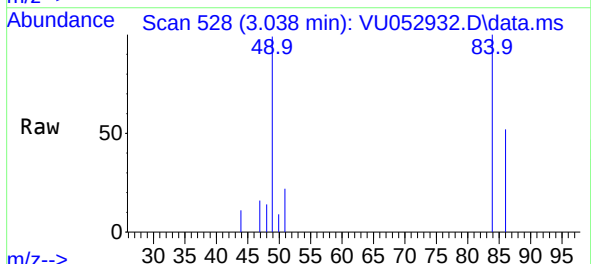
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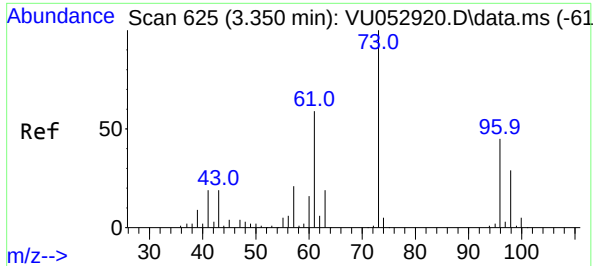
Tgt Ion: 76 Resp: 44
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#16
Methylene chloride
Concen: 223.621 ug/L
RT: 3.038 min Scan# 528
Delta R.T. -0.007 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 84 Resp: 2387
Ion Ratio Lower Upper
84 100
86 52.0 43.4 80.6
49 99.5 72.4 134.5





#17

trans-1,2-Dichloroethene

Concen: 35.371 ug/L

RT: 3.356 min Scan# 61

Delta R.T. 0.006 min

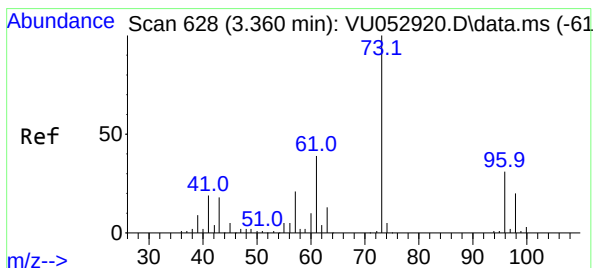
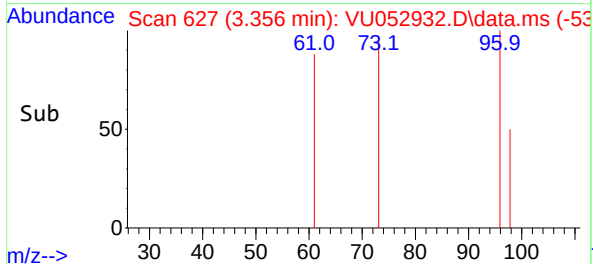
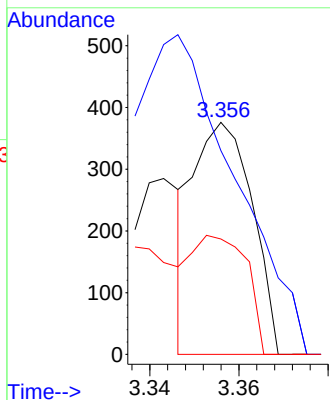
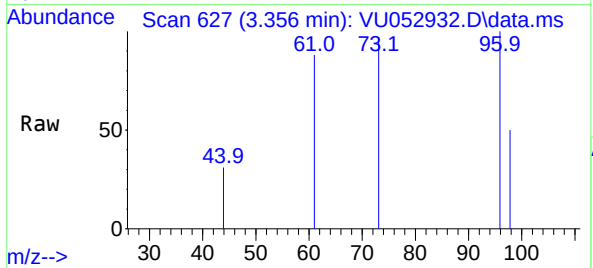
Lab File: VU052932.D

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Tgt Ion: 96 Resp: 343

Ion	Ratio	Lower	Upper
96	100		
61	87.8	92.7	172.3#
98	49.7	44.7	82.9



#18

Methyl tert-butyl Ether

Concen: 23.848 ug/L

RT: 3.356 min Scan# 627

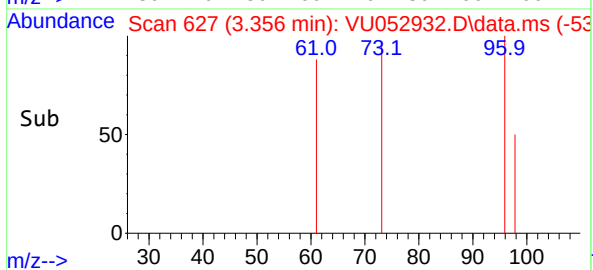
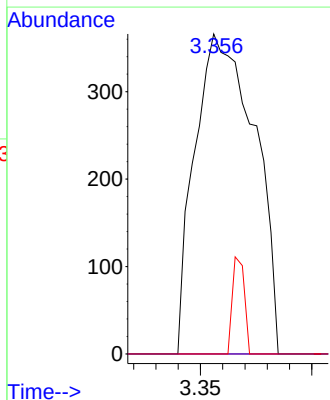
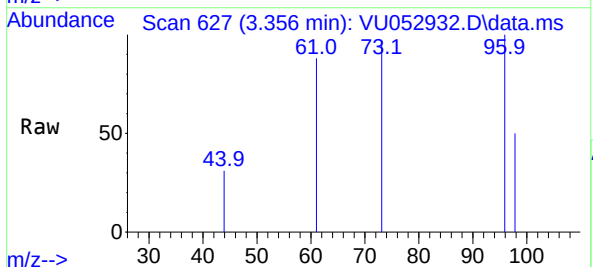
Delta R.T. -0.004 min

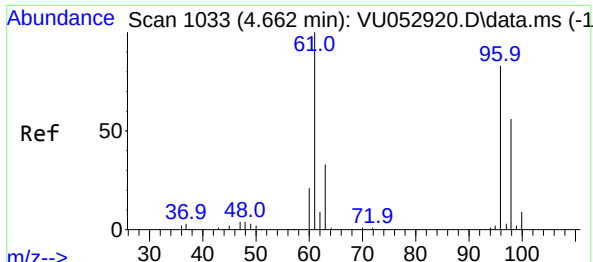
Lab File: VU052932.D

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Tgt Ion: 73 Resp: 680

Ion	Ratio	Lower	Upper
73	100		
43	15.9	14.2	21.2
57	6.0	16.3	24.5#

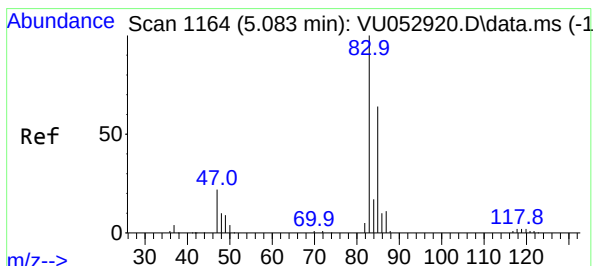
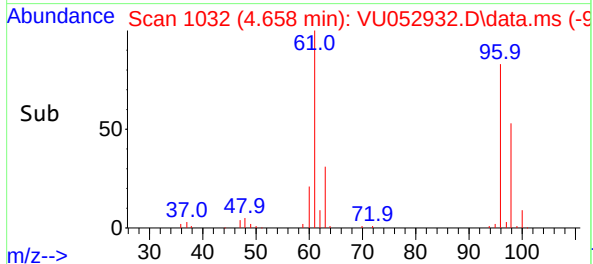
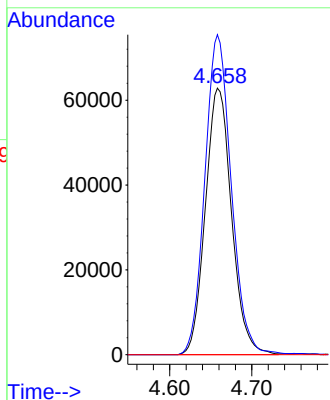
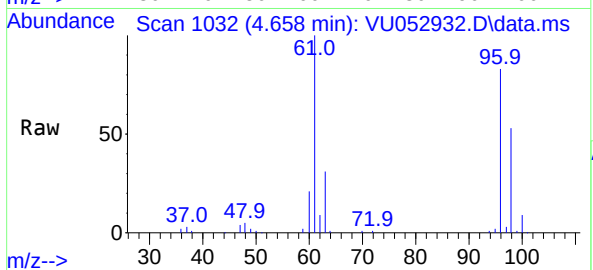




#20
cis-1,2-Dichloroethene
Concen: 13510.653 ug/L
RT: 4.658 min Scan# 1033
Delta R.T. -0.004 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

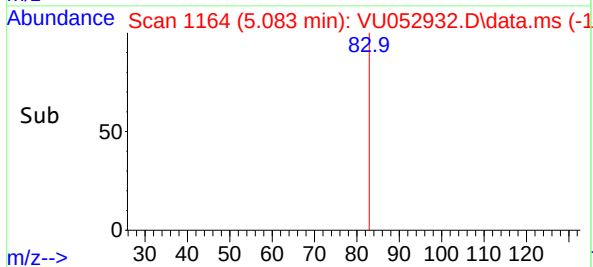
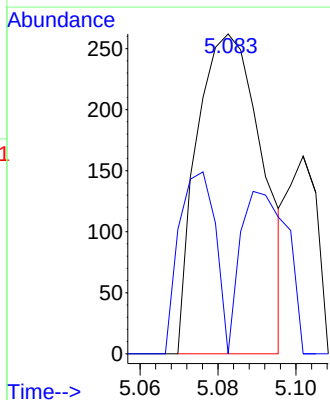
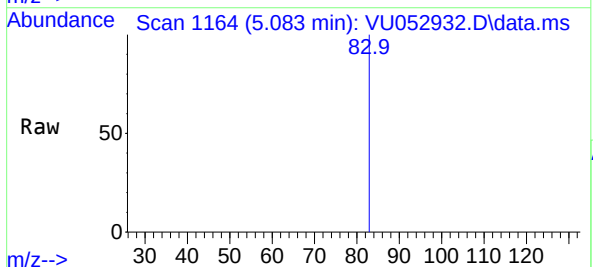
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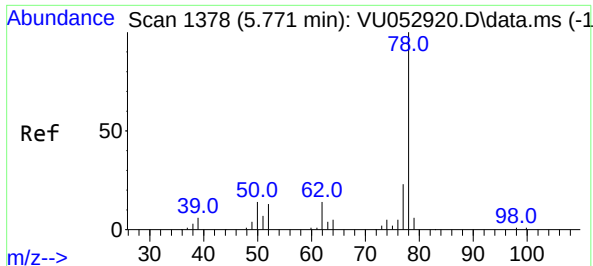
Tgt Ion: 96 Resp: 139883
Ion Ratio Lower Upper
96 100
61 120.0 84.1 156.1
68 0.0 0.0 0.0



#25
Chloroform
Concen: 15.975 ug/L
RT: 5.083 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 83 Resp: 305
Ion Ratio Lower Upper
83 100
85 0.0 45.8 85.0#

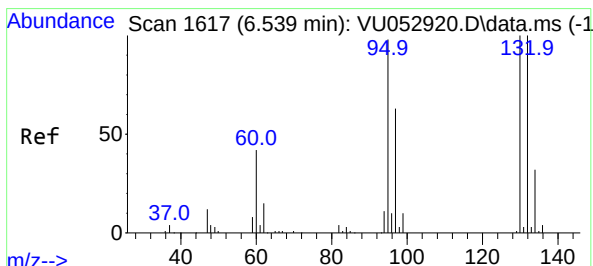
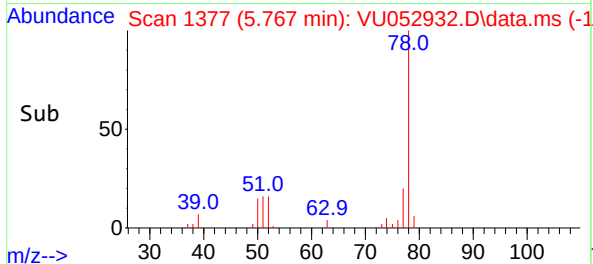
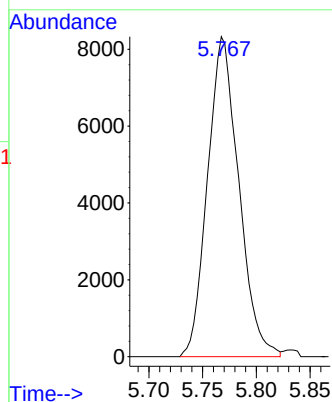
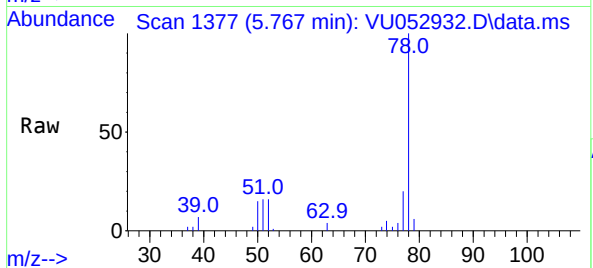




#33
Benzene
Concen: 260.862 ug/L
RT: 5.767 min Scan# 11
Delta R.T. -0.004 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Instrument :
MSVOA_U
ClientSampleId :
A44M5

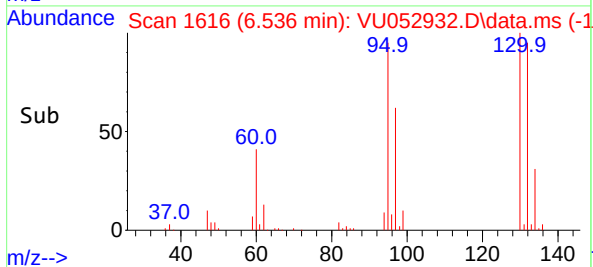
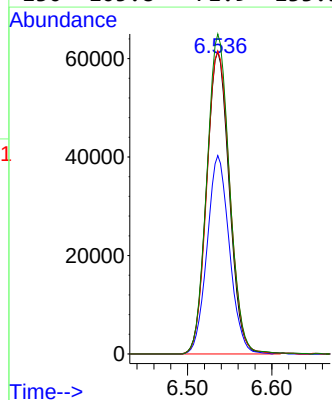
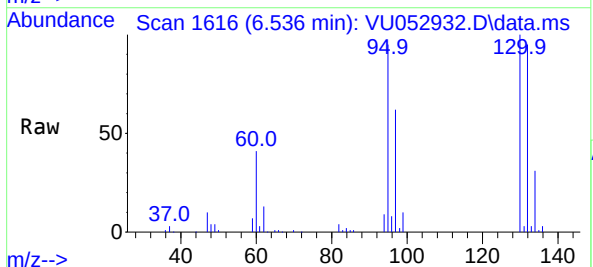
Tgt Ion: 78 Resp: 16845

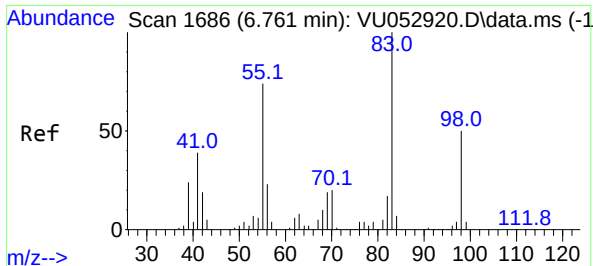


#34
Trichloroethene
Concen: 7003.211 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.004 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 95 Resp: 114943

Ion	Ratio	Lower	Upper
95	100		
97	65.6	44.5	82.7
132	100.2	66.8	124.0
130	105.8	71.9	133.5

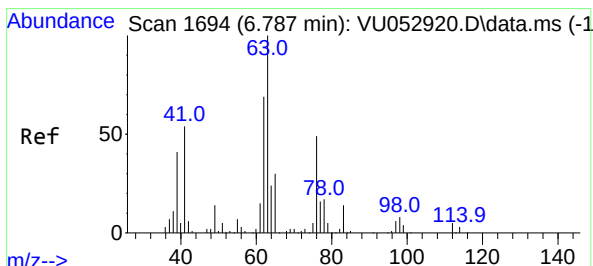
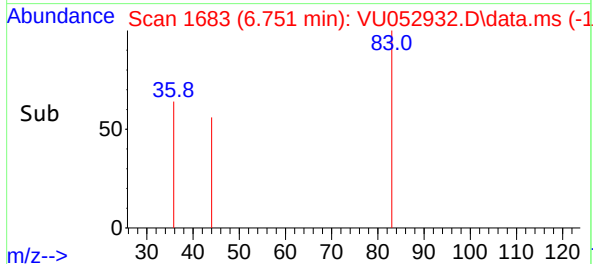
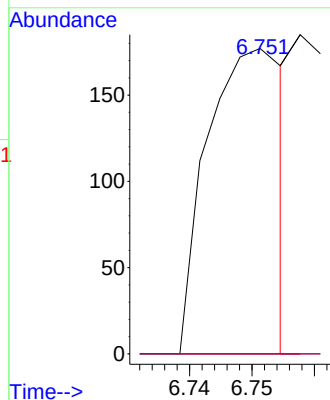
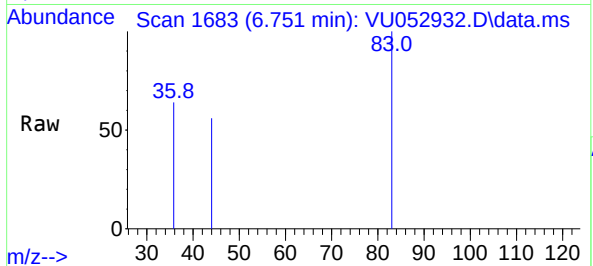




#35
Methylcyclohexane
Concen: 5.774 ug/L
RT: 6.751 min Scan# 1615
Delta R.T. -0.010 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

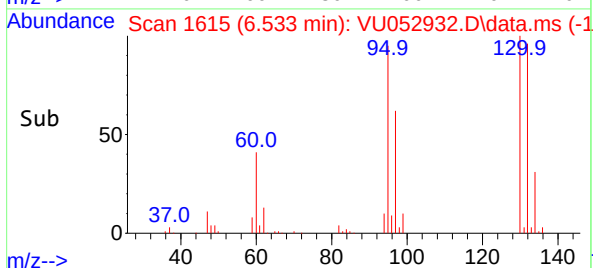
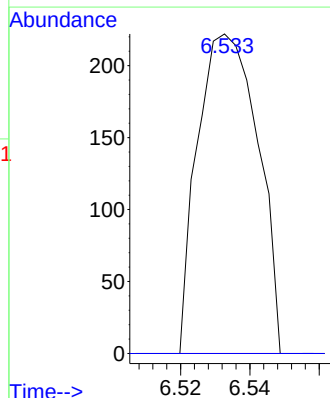
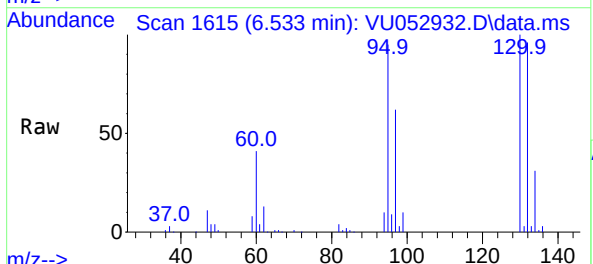
Instrument :
MSVOA_U
ClientSampleId :
A44M5

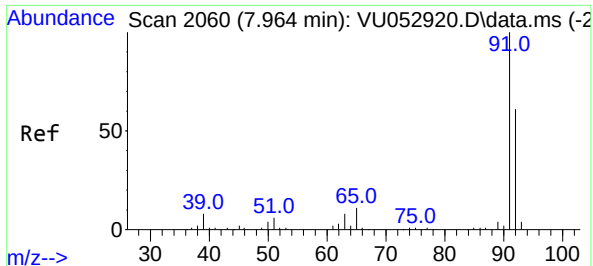
Tgt Ion: 83 Resp: 150
Ion Ratio Lower Upper
83 100
55 0.0 57.1 85.7#
98 44.7 38.9 58.3



#37
1,2-Dichloropropane
Concen: 16.881 ug/L
RT: 6.533 min Scan# 1615
Delta R.T. -0.254 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 63 Resp: 268
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.8#

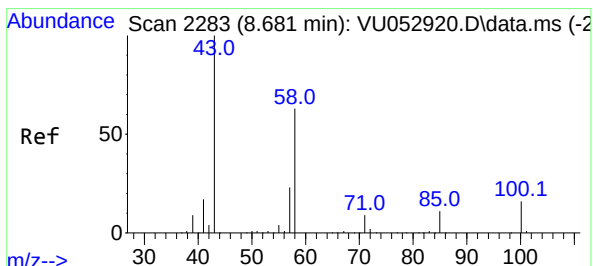
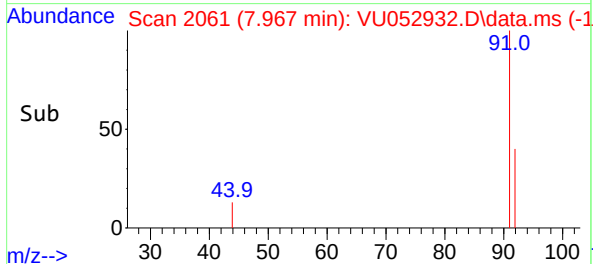
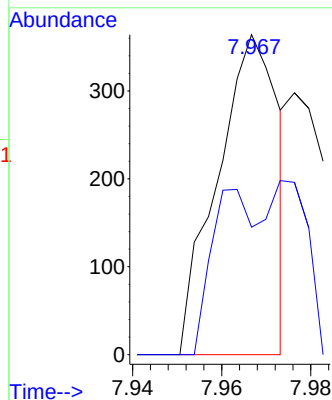
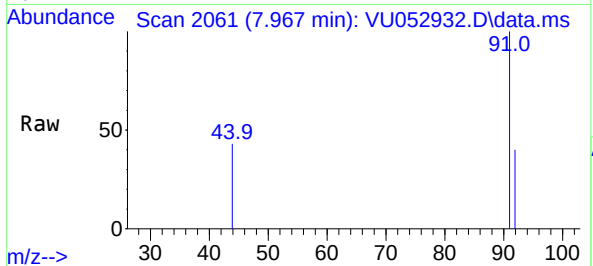




#42
Toluene
Concen: 5.213 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

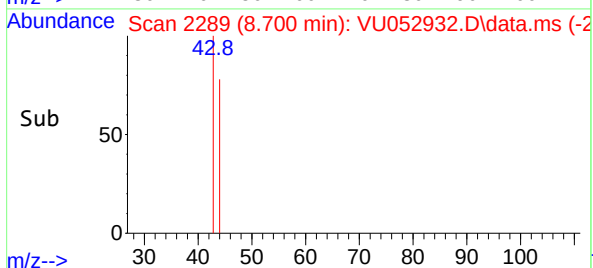
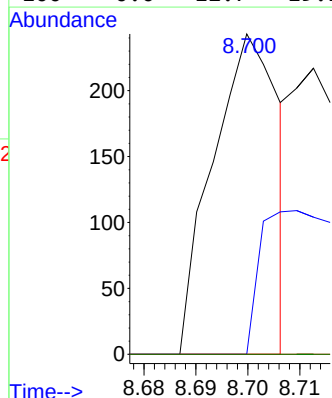
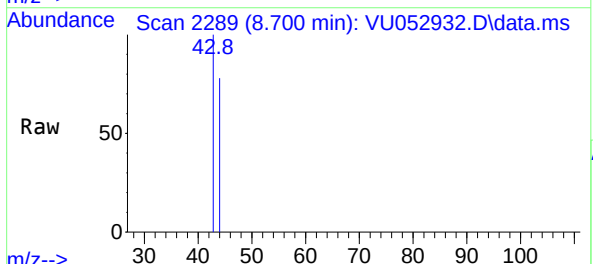
Instrument :
MSVOA_U
ClientSampleId :
A44M5

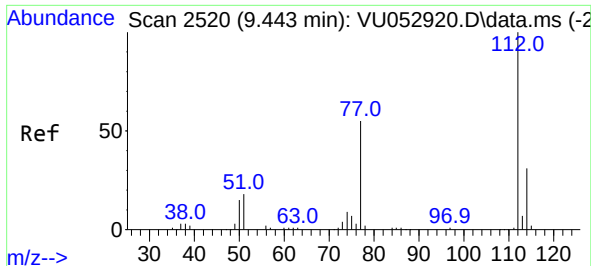
Tgt Ion: 91 Resp: 345
Ion Ratio Lower Upper
91 100
92 39.8 42.6 79.0#



#48
2-Hexanone
Concen: 13.461 ug/L
RT: 8.700 min Scan# 2289
Delta R.T. 0.019 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 43 Resp: 213
Ion Ratio Lower Upper
43 100
58 38.0 48.0 72.0#
57 0.0 16.8 25.2#
100 0.0 12.7 19.1#

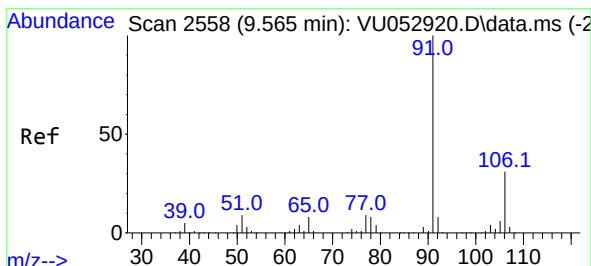
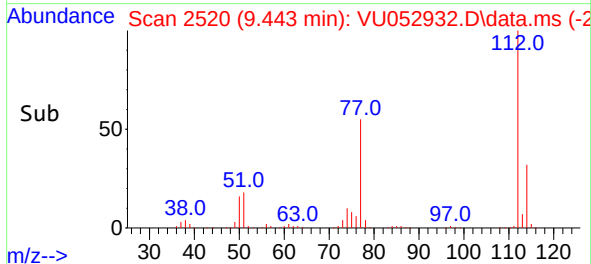
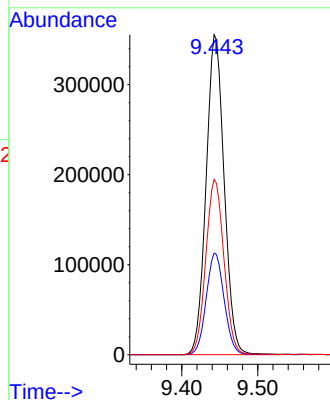
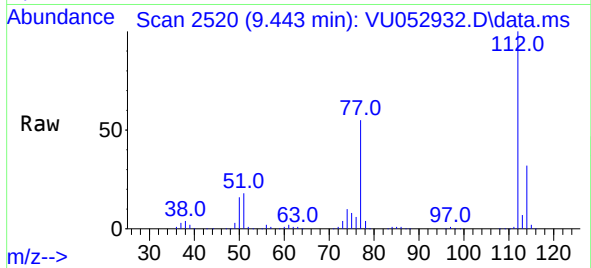




#51
Chlorobenzene
Concen: 12881.690 ug/L
RT: 9.443 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

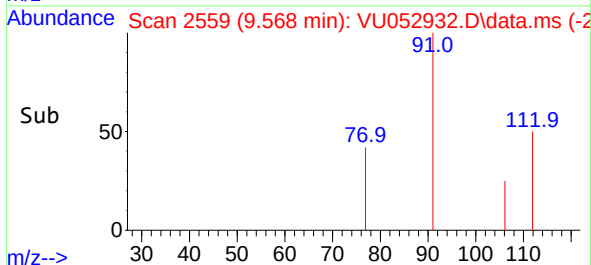
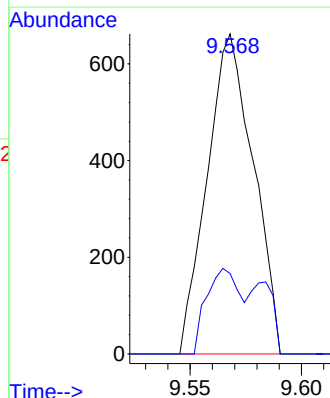
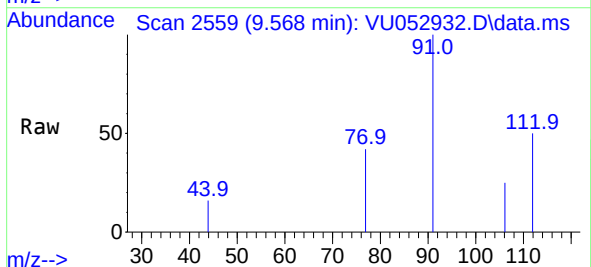
Instrument :
MSVOA_U
ClientSampleId :
A44M5

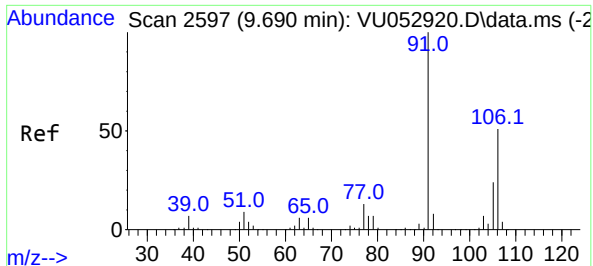
Tgt Ion:112 Resp: 586527
Ion Ratio Lower Upper
112 100
114 31.7 22.8 42.4
77 54.8 45.9 68.9



#52
Ethylbenzene
Concen: 13.475 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.003 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 91 Resp: 953
Ion Ratio Lower Upper
91 100
106 25.1 22.0 40.8

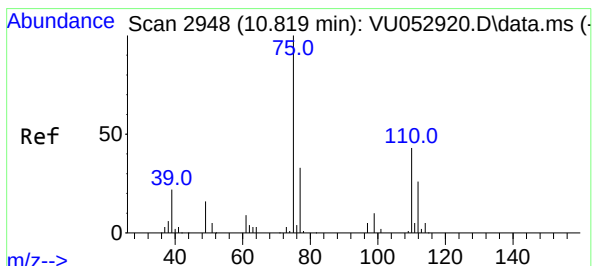
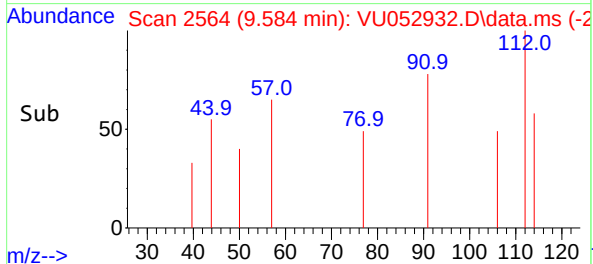
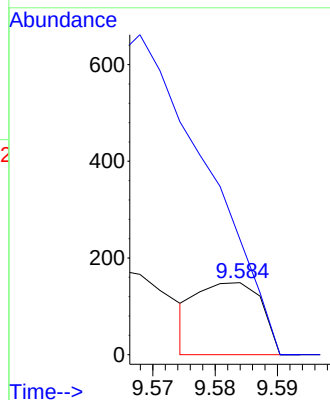
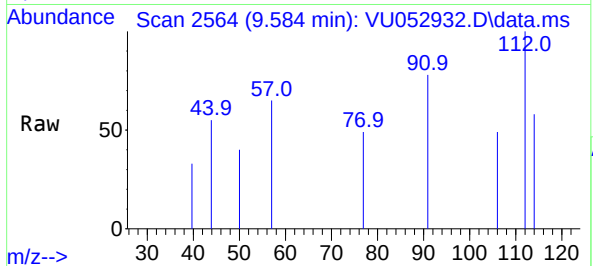




#53
m,p-Xylene
Concen: 3.702 ug/L
RT: 9.584 min Scan# 21
Delta R.T. -0.106 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

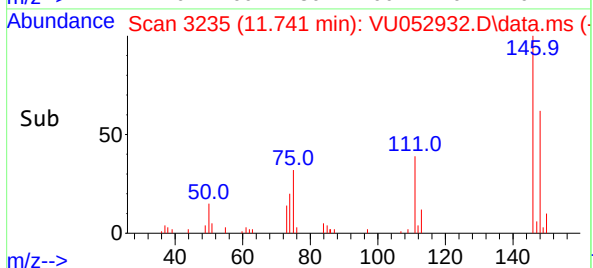
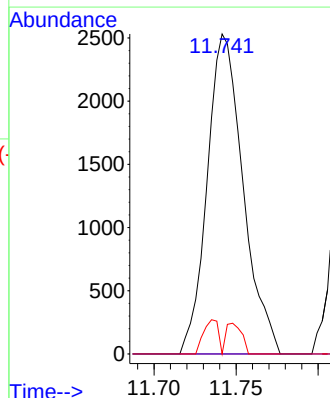
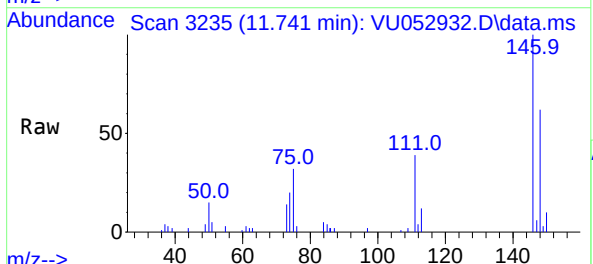
Instrument :
MSVOA_U
ClientSampleId :
A44M5

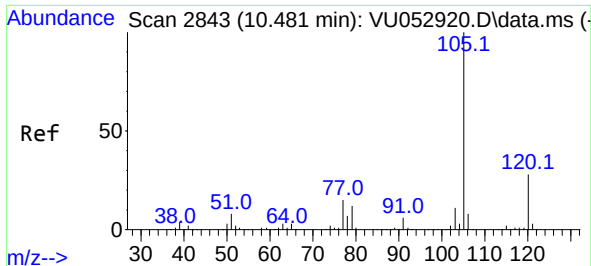
Tgt Ion:106 Resp: 106
Ion Ratio Lower Upper
106 100
91 159.7 137.4 255.2



#60
1,2,3-Trichloropropane
Concen: 69.150 ug/L
RT: 11.741 min Scan# 3235
Delta R.T. 0.922 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion: 75 Resp: 3851
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#
110 4.4 32.4 48.6#

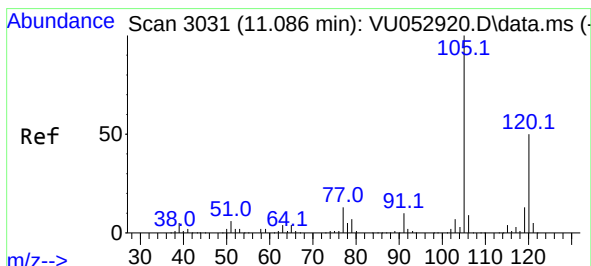
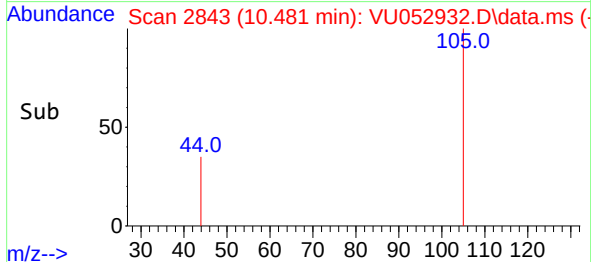
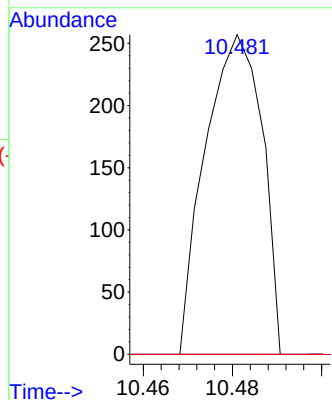
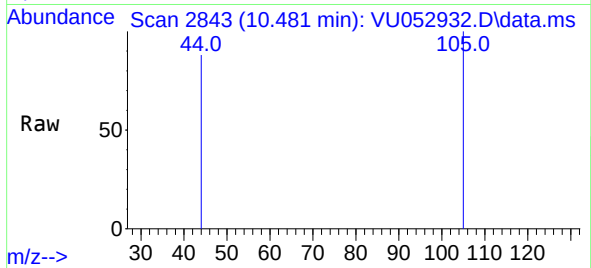




#61
Isopropylbenzene
Concen: 1.230 ug/L
RT: 10.481 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

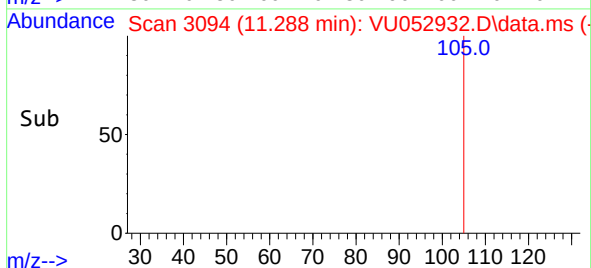
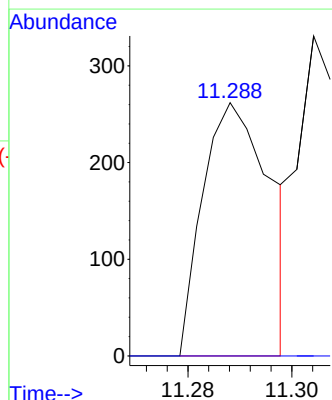
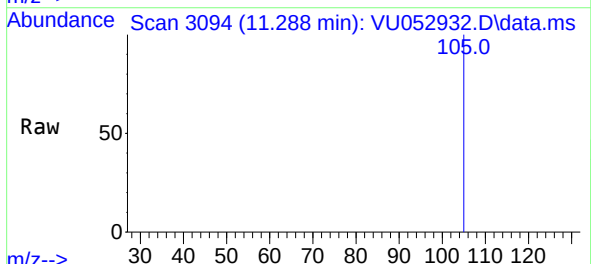
Instrument :
MSVOA_U
ClientSampleId :
A44M5

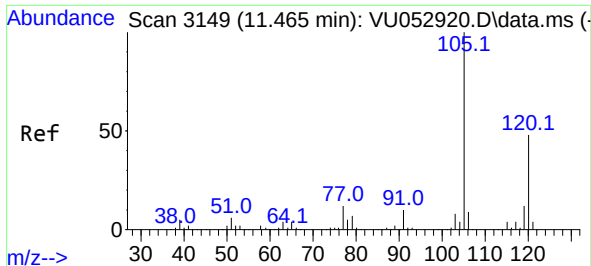
Tgt Ion:105 Resp: 228
Ion Ratio Lower Upper
105 100
120 0.0 21.4 32.2#
77 0.0 12.2 18.2#



#62
1,3,5-Trimethylbenzene
Concen: 1.529 ug/L
RT: 11.288 min Scan# 3094
Delta R.T. 0.202 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion:105 Resp: 236
Ion Ratio Lower Upper
105 100
120 0.0 40.4 60.6#

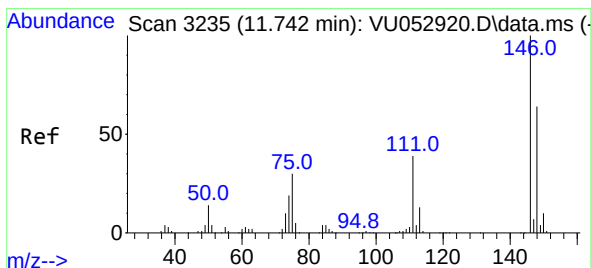
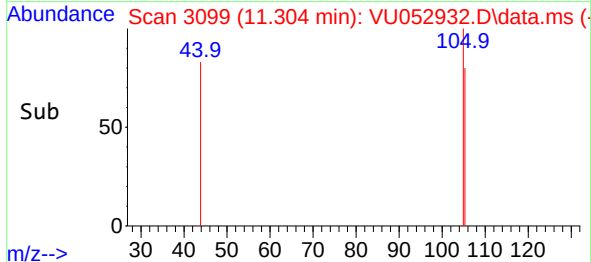
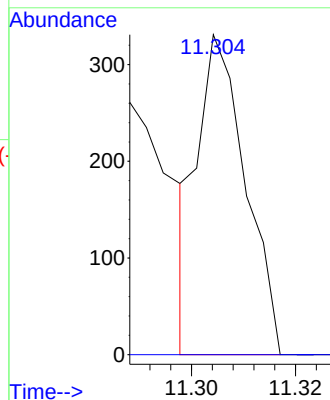
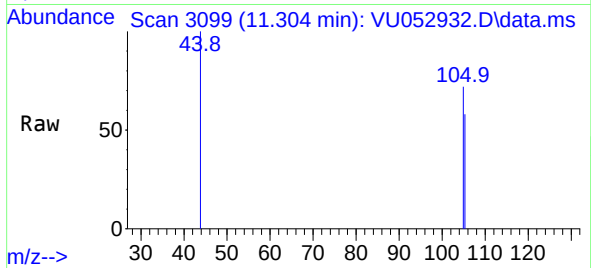




#63
1,2,4-Trimethylbenzene
Concen: 1.406 ug/L
RT: 11.304 min Scan# 3099
Delta R.T. -0.161 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

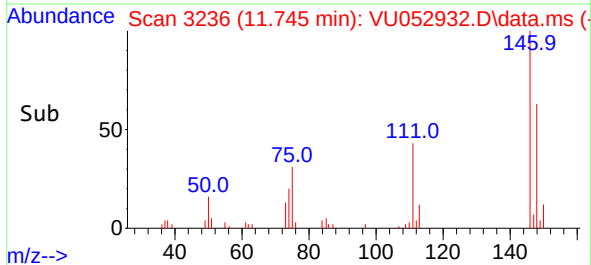
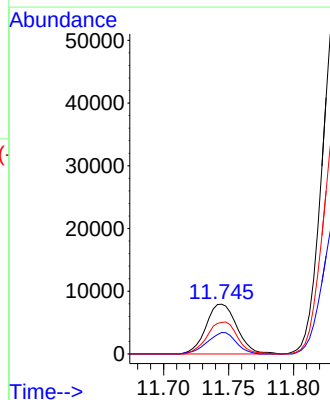
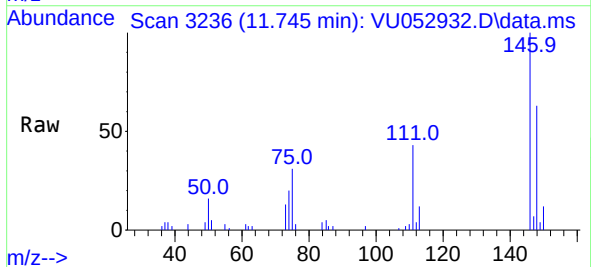
Instrument :
MSVOA_U
ClientSampleId :
A44M5

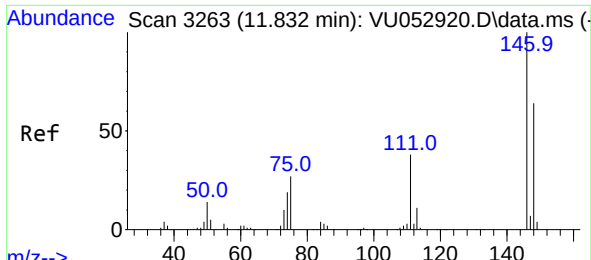
Tgt Ion:105 Resp: 210
Ion Ratio Lower Upper
105 100
120 0.0 38.1 57.1#



#64
1,3-Dichlorobenzene
Concen: 140.597 ug/L
RT: 11.745 min Scan# 3236
Delta R.T. 0.003 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion:146 Resp: 13153
Ion Ratio Lower Upper
146 100
111 43.0 27.8 51.6
148 63.4 45.5 84.5

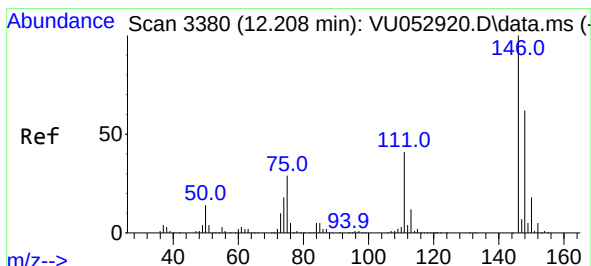
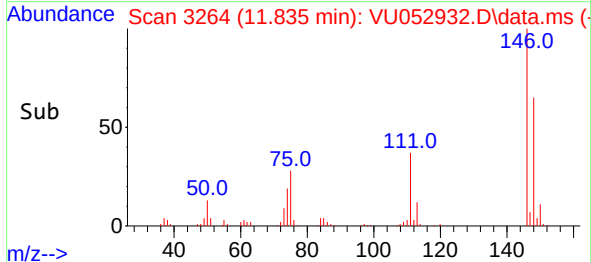
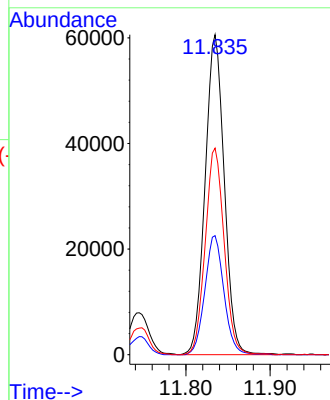
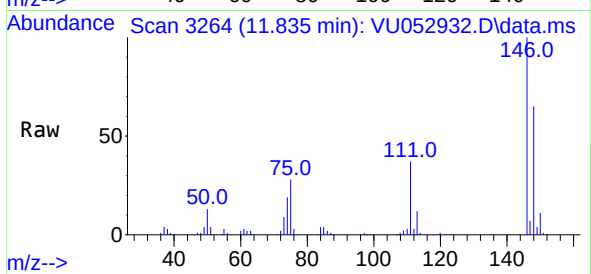




#65
1,4-Dichlorobenzene
Concen: 989.312 ug/L
RT: 11.835 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

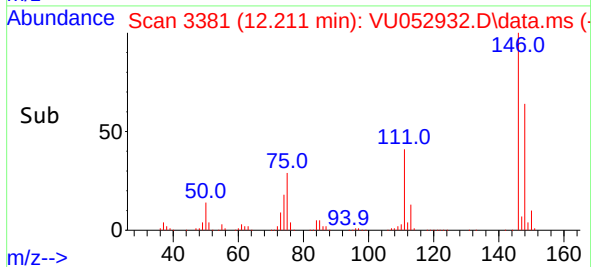
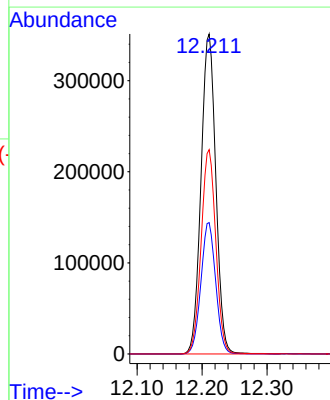
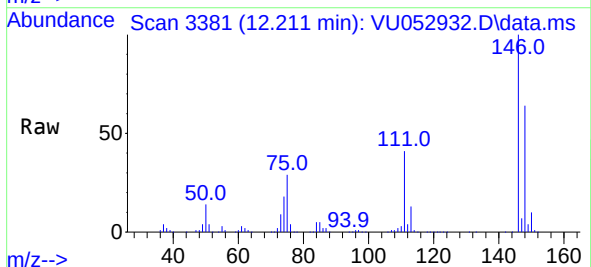
Instrument :
MSVOA_U
ClientSampleId :
A44M5

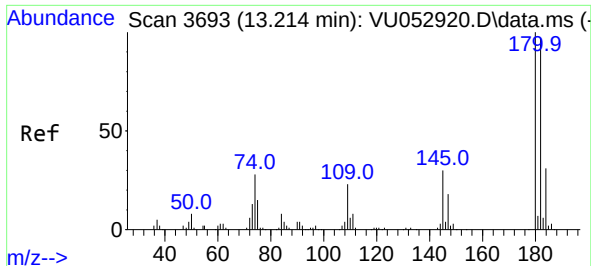
Tgt Ion:146 Resp: 95813
Ion Ratio Lower Upper
146 100
111 37.2 26.7 49.7
148 64.5 45.6 84.6



#67
1,2-Dichlorobenzene
Concen: 5900.627 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. 0.003 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion:146 Resp: 558342
Ion Ratio Lower Upper
146 100
111 41.1 33.2 49.8
148 63.9 50.2 75.4





#69

1,3,5-Trichlorobenzene

Concen: 1533.082 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. 0.620 min

Lab File: VU052932.D

Acq: 02 Feb 2023 17:46

Instrument :

MSVOA_U

ClientSampleId :

A44M5

Tgt Ion:180 Resp: 106177

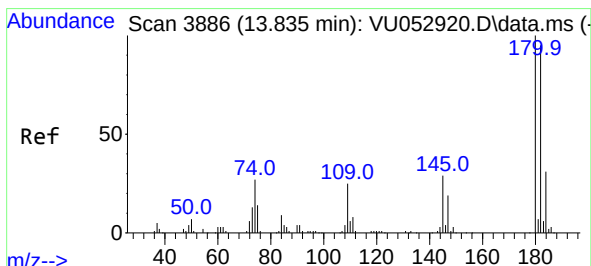
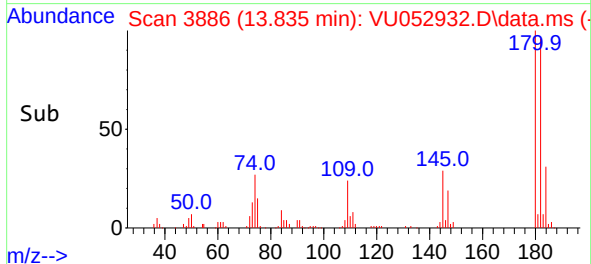
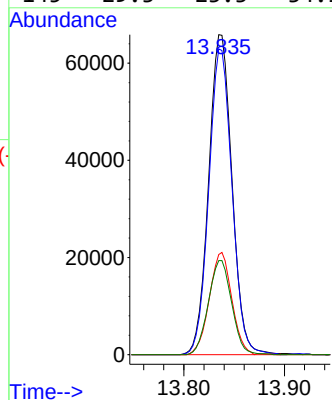
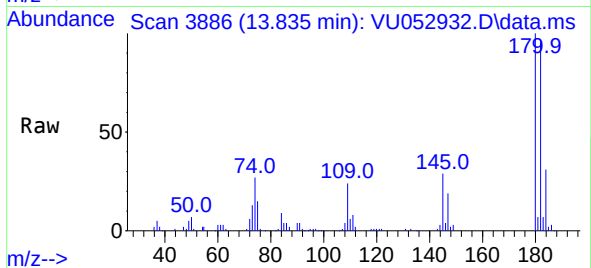
Ion Ratio Lower Upper

180 100

182 94.9 77.0 115.6

184 30.8 24.4 36.6

145 29.3 23.3 34.9



#70

1,2,4-trichlorobenzene

Concen: 1828.588 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. -0.000 min

Lab File: VU052932.D

Acq: 02 Feb 2023 17:46

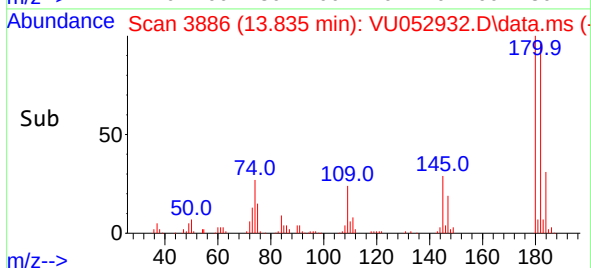
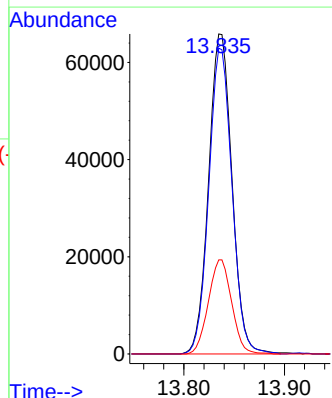
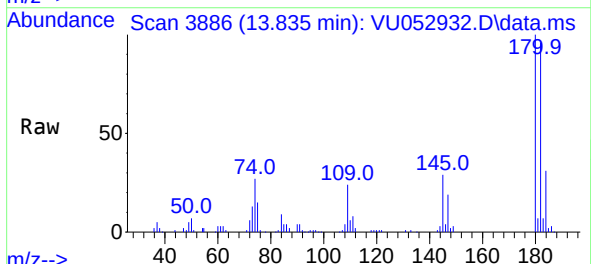
Tgt Ion:180 Resp: 106177

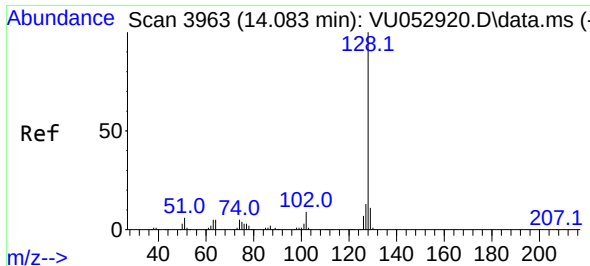
Ion Ratio Lower Upper

180 100

182 94.9 78.2 117.2

145 29.3 23.4 35.2

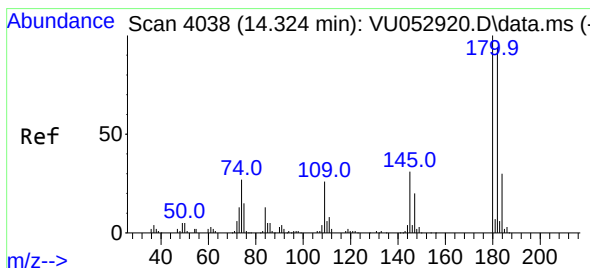
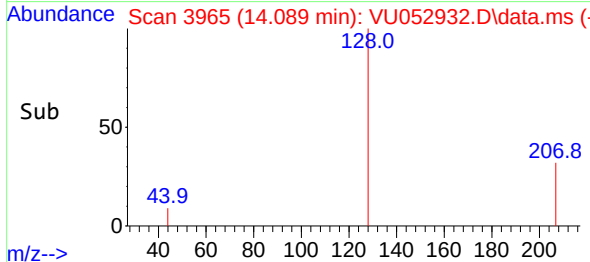
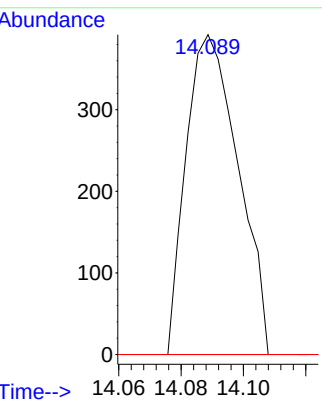
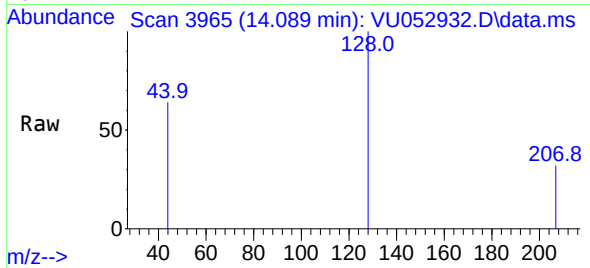




#71
Naphthalene
Concen: 2.733 ug/L
RT: 14.089 min Scan# 3963
Delta R.T. 0.006 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Instrument :
MSVOA_U
ClientSampleId :
A44M5

Tgt Ion:	128	Resp:	456
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.8	13.2#



#72
1,2,3-Trichlorobenzene
Concen: 445.976 ug/L
RT: 14.327 min Scan# 4039
Delta R.T. 0.003 min
Lab File: VU052932.D
Acq: 02 Feb 2023 17:46

Tgt Ion:	180	Resp:	27367
Ion	Ratio	Lower	Upper
180	100		
182	99.2	77.5	116.3
145	30.7	24.2	36.4

