

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040423\
 Data File : VU053571.D
 Acq On : 04 Apr 2023 19:06
 Operator : JC/MD
 Sample : 02158-14DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 04 23:13:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM033123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 01 04:51:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	267694	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	249058	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	130505	50.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	68937	33.072	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	66.140%
7) Chloroethane-d5	1.909	69	62323	38.779	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.560%
11) 1,1-Dichloroethene-d2	2.562	63	85821	26.598	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.200%#
21) 2-Butanone-d5	4.610	46	104037	110.239	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.240%
24) Chloroform-d	5.057	84	137927	40.010	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.020%
26) 1,2-Dichloroethane-d4	5.694	65	89558	43.966	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.940%
32) Benzene-d6	5.723	84	271961	40.454	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.900%
36) 1,2-Dichloropropane-d6	6.684	67	90637	44.109	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.220%
41) Toluene-d8	7.893	98	251527	37.643	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	75.280%#
43) trans-1,3-Dichloroprop...	8.176	79	42338	39.915	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.840%
47) 2-Hexanone-d5	8.626	63	77273	110.187	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.190%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	133316	46.032	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.060%
66) 1,2-Dichlorobenzene-d4	12.189	152	108959	39.998	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.000%

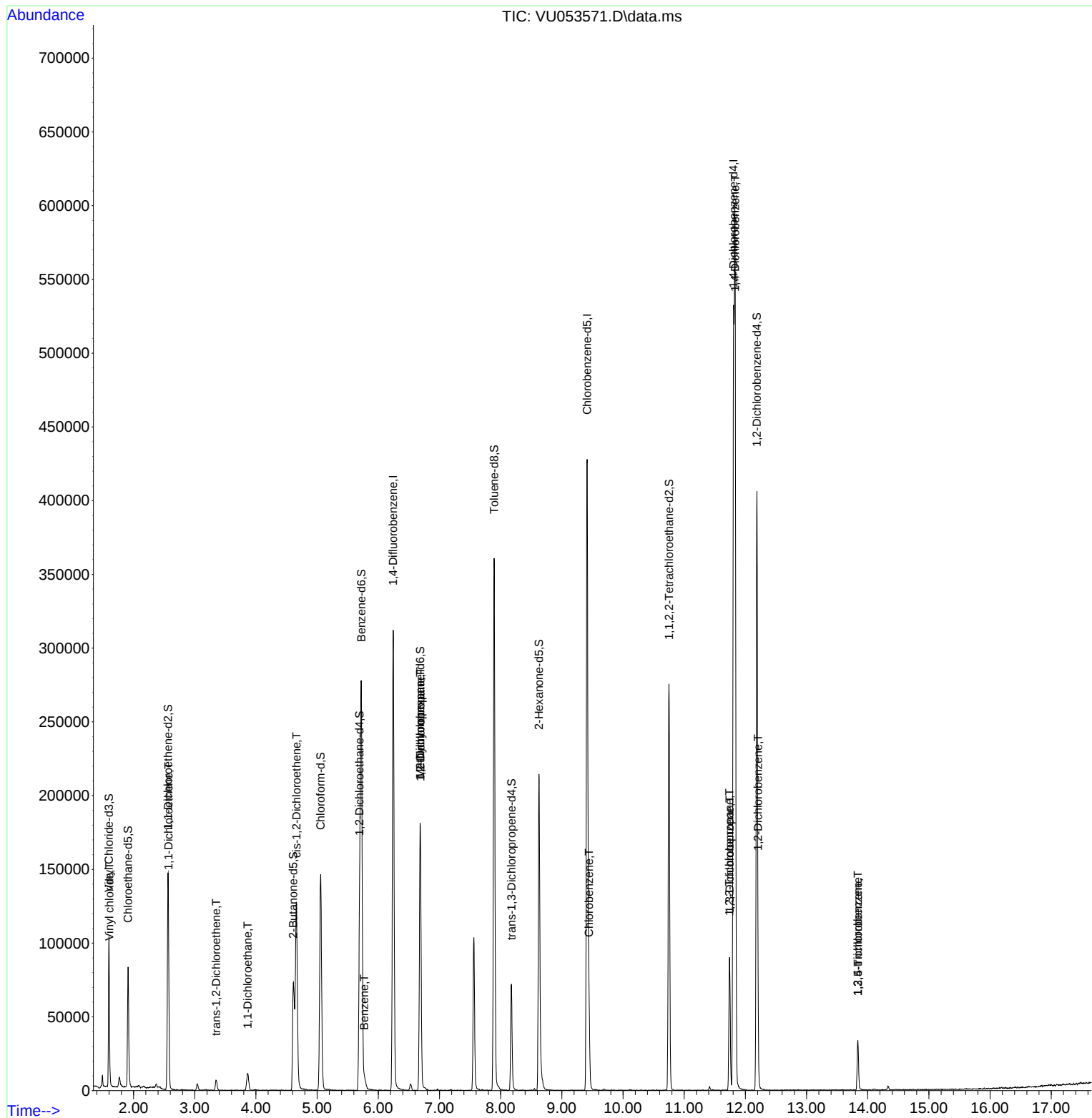
Target Compounds					Qvalue
5) Vinyl chloride	1.604	62	4056	1.960 ug/L #	74
12) 1,1-Dichloroethene	2.572	96	1469	0.894 ug/L #	1
17) trans-1,2-Dichloroethene	3.350	96	3112	1.885 ug/L	85
19) 1,1-Dichloroethane	3.864	63	14077	5.148 ug/L	99
20) cis-1,2-Dichloroethene	4.662	96	67188	35.237 ug/L	88
33) Benzene	5.771	78	5792	0.893 ug/L	100
35) Methylcyclohexane	6.684	83	21122	7.322 ug/L #	23
37) 1,2-Dichloropropane	6.687	63	9087	5.515 ug/L #	86
51) Chlorobenzene	9.443	112	33057	6.524 ug/L	94
60) 1,2,3-Trichloropropane	11.739	75	11155	5.895 ug/L #	47
64) 1,3-Dichlorobenzene	11.742	146	38435	9.533 ug/L	95
65) 1,4-Dichlorobenzene	11.832	146	228507	55.610 ug/L	97
67) 1,2-Dichlorobenzene	12.205	146	3894	0.969 ug/L #	94
69) 1,3,5-Trichlorobenzene	13.838	180	11373	3.809 ug/L	97
70) 1,2,4-trichlorobenzene	13.838	180	11373	4.109 ug/L	97

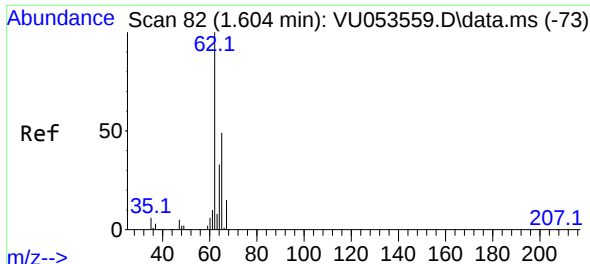
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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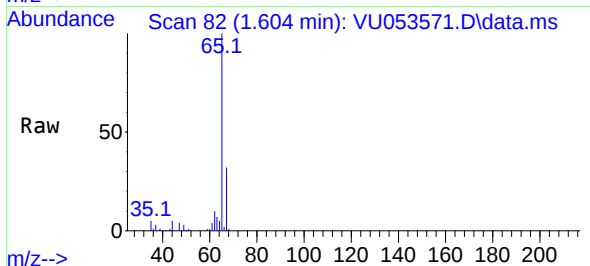
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM033123WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Apr 01 04:51:17 2023
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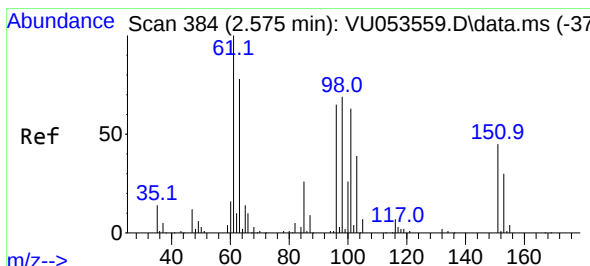
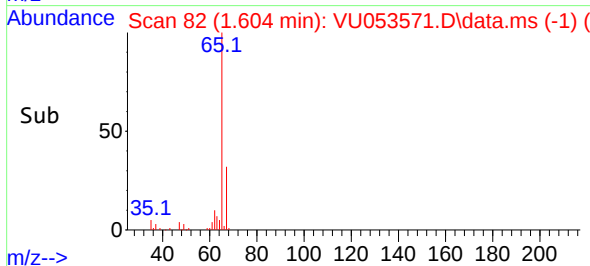
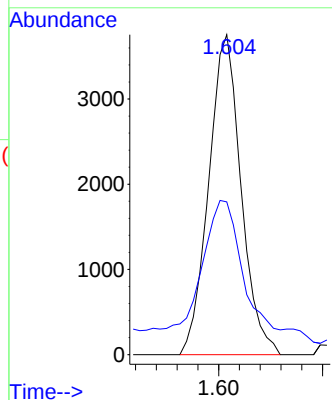


#5
 Vinyl chloride
 Concen: 1.960 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU053571.D
 Acq: 04 Apr 2023 19:06

Instrument :
 MSVOA_U
 ClientSampleId :

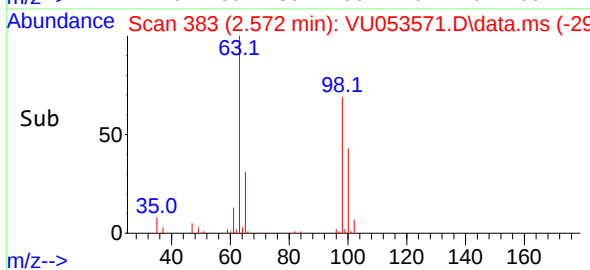
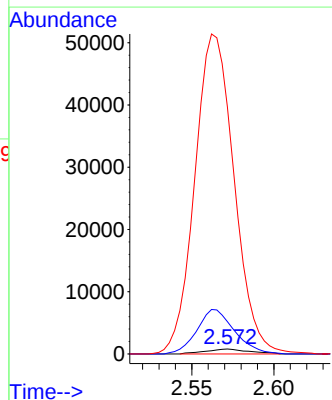
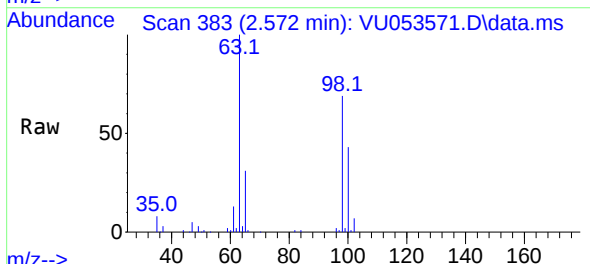


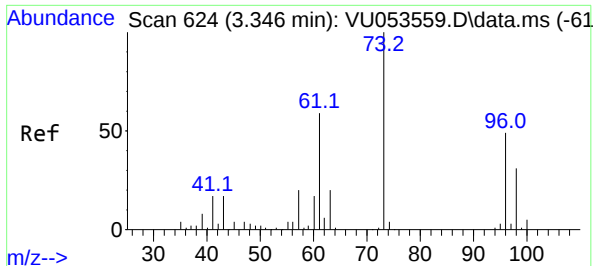
Tgt Ion: 62 Resp: 4056
 Ion Ratio Lower Upper
 62 100
 64 47.7 23.2 43.0#



#12
 1,1-Dichloroethene
 Concen: 0.894 ug/L
 RT: 2.572 min Scan# 383
 Delta R.T. -0.006 min
 Lab File: VU053571.D
 Acq: 04 Apr 2023 19:06

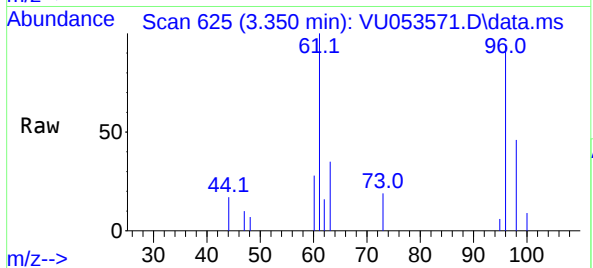
Tgt Ion: 96 Resp: 1469
 Ion Ratio Lower Upper
 96 100
 61 659.1 107.9 200.5#
 63 5041.9 79.1 146.9#





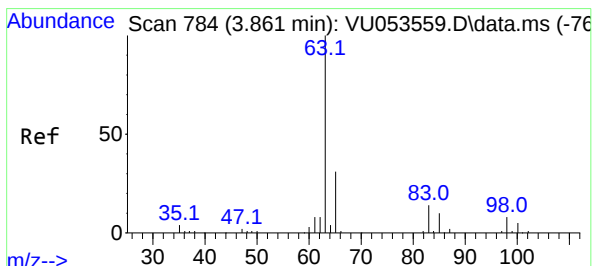
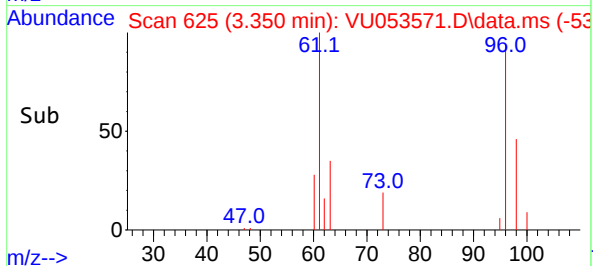
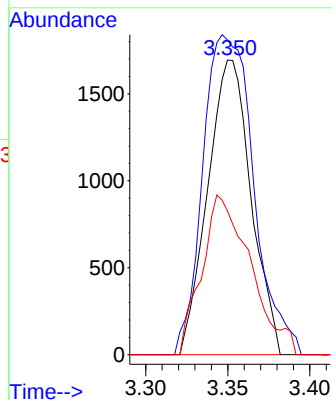
#17
trans-1,2-Dichloroethene
Concen: 1.885 ug/L
RT: 3.350 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 3112

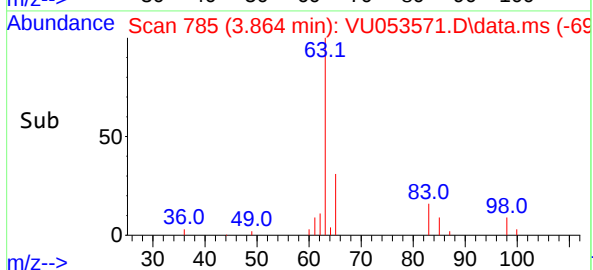
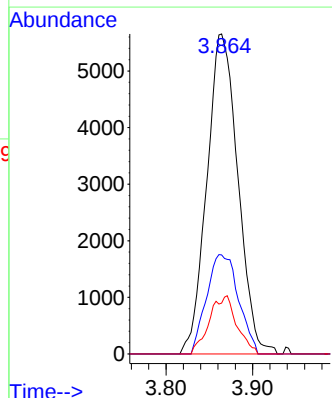
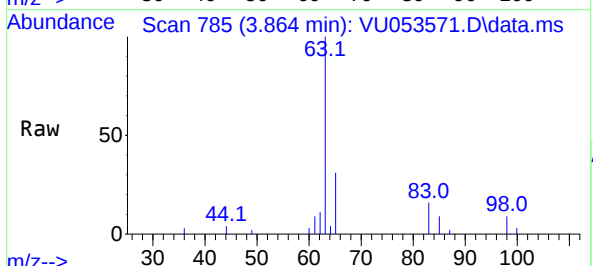
Ion	Ratio	Lower	Upper
96	100		
61	106.8	84.4	156.8
98	48.8	46.0	85.4

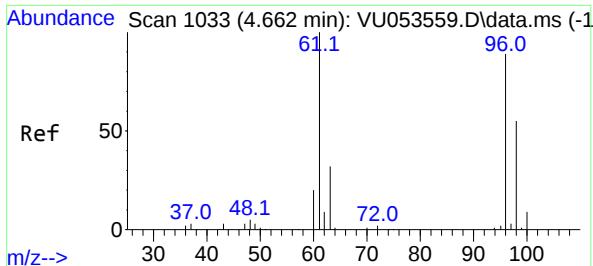


#19
1,1-Dichloroethane
Concen: 5.148 ug/L
RT: 3.864 min Scan# 785
Delta R.T. 0.000 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

Tgt Ion: 63 Resp: 14077

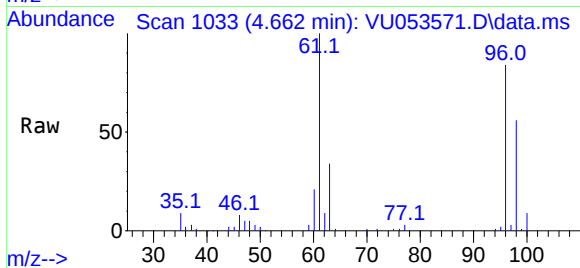
Ion	Ratio	Lower	Upper
63	100		
65	31.0	22.0	41.0
83	15.9	10.8	20.0



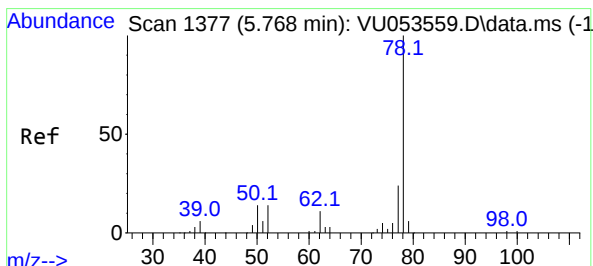
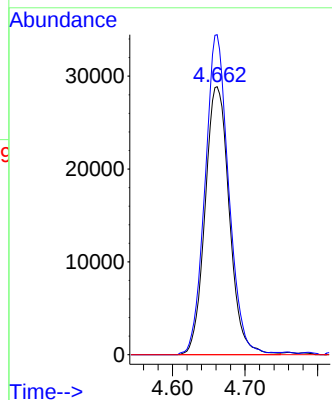
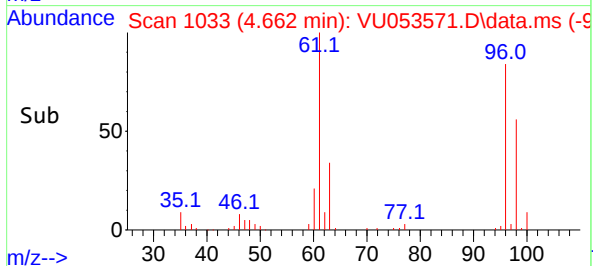


#20
cis-1,2-Dichloroethene
Concen: 35.237 ug/L
RT: 4.662 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

Instrument :
MSVOA_U
ClientSampleId :

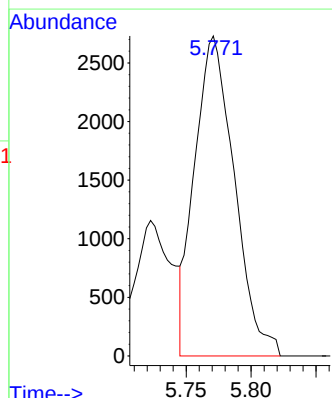
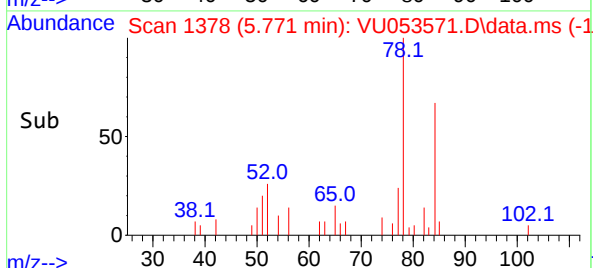
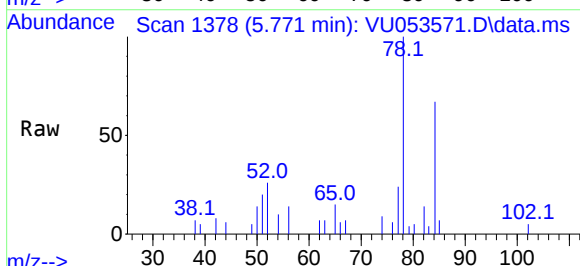


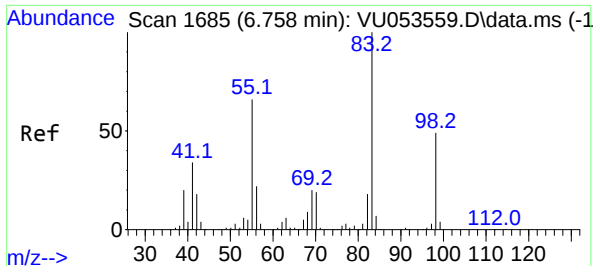
Tgt Ion: 96 Resp: 67188
Ion Ratio Lower Upper
96 100
61 119.4 74.7 138.7
68 0.0 0.0 0.0



#33
Benzene
Concen: 0.893 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

Tgt Ion: 78 Resp: 5792





#35

Methylcyclohexane

Concen: 7.322 ug/L

RT: 6.684 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU053571.D

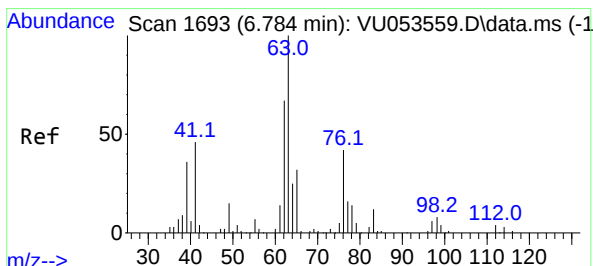
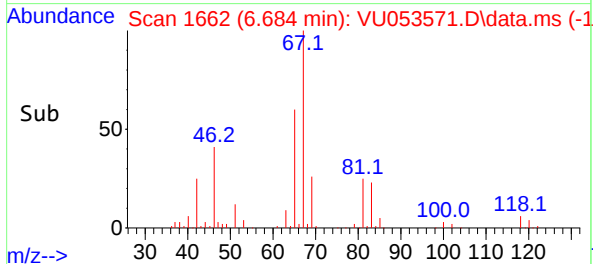
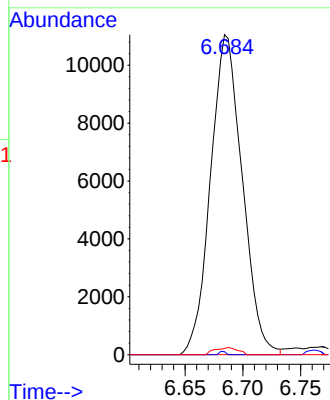
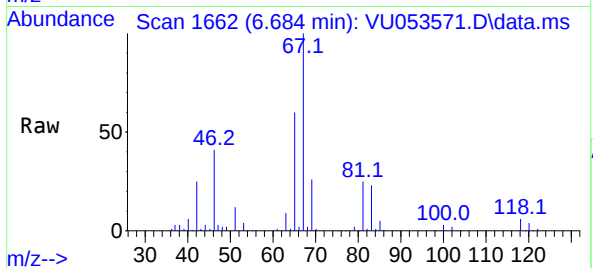
Acq: 04 Apr 2023 19:06

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 21122
Ion Ratio	Lower Upper
83 100	
55 0.2	53.0 79.6#
98 1.6	39.0 58.6#



#37

1,2-Dichloropropane

Concen: 5.515 ug/L

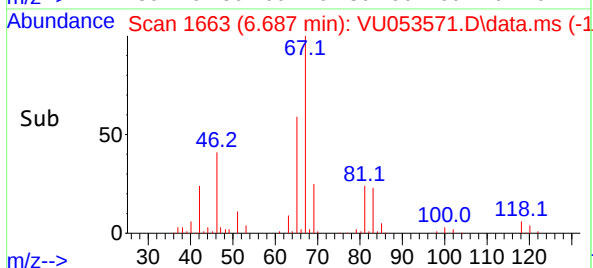
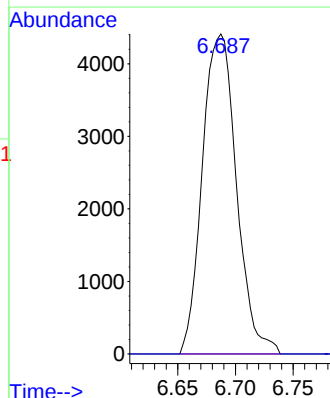
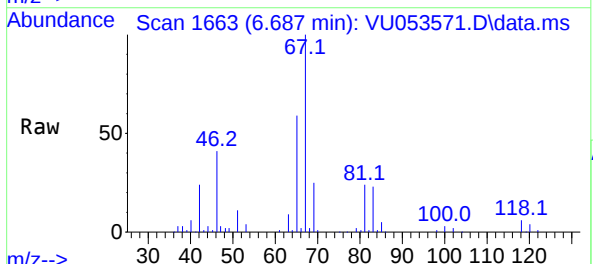
RT: 6.687 min Scan# 1663

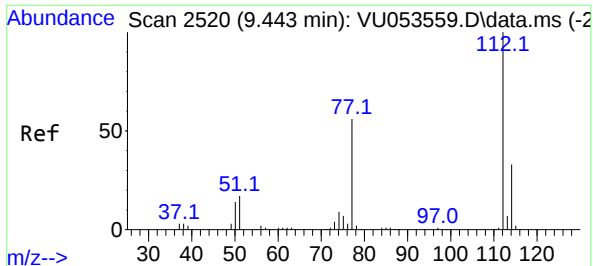
Delta R.T. -0.096 min

Lab File: VU053571.D

Acq: 04 Apr 2023 19:06

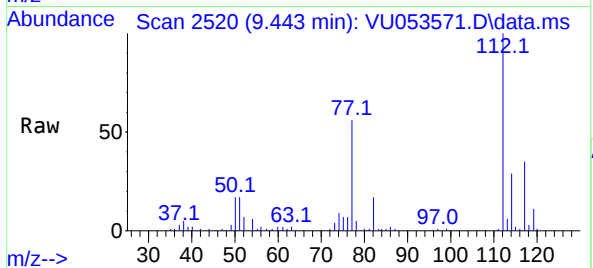
Tgt Ion: 63	Resp: 9087
Ion Ratio	Lower Upper
63 100	
112 0.0	3.8 5.6#



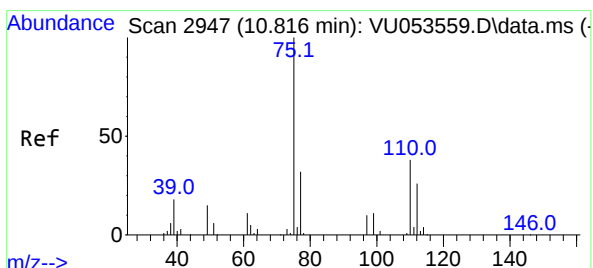
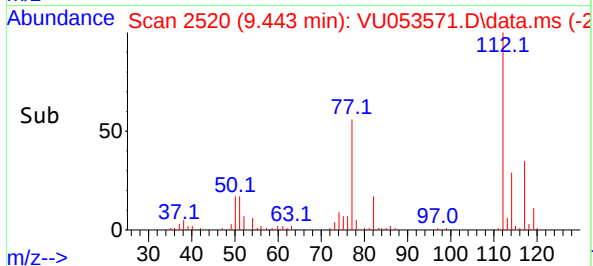
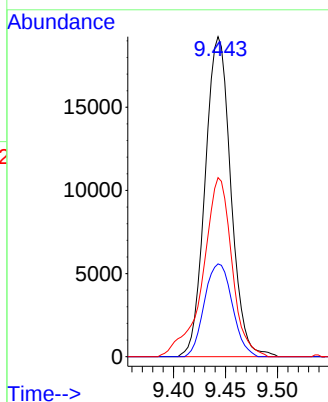


#51
Chlorobenzene
Concen: 6.524 ug/L
RT: 9.443 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

Instrument :
MSVOA_U
ClientSampleId :

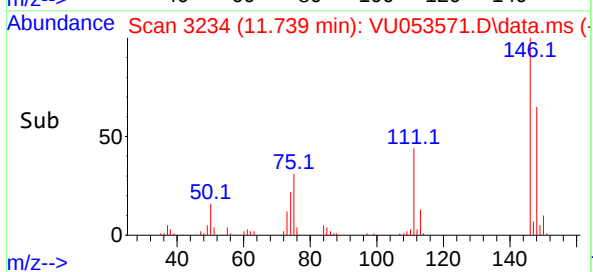
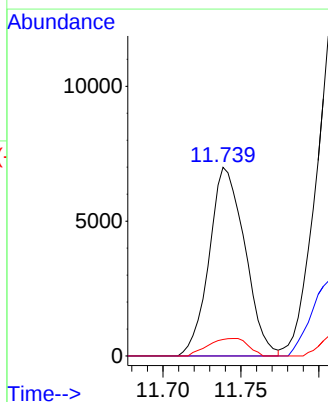
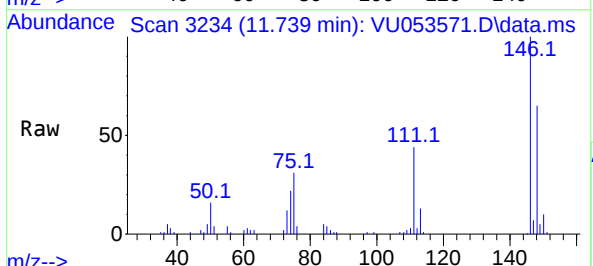


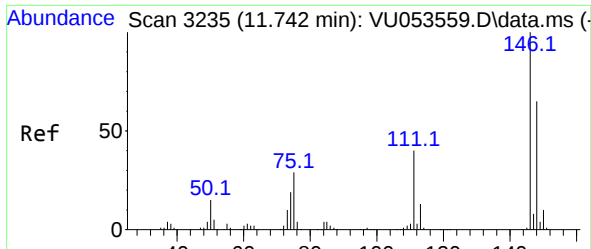
Tgt Ion:112 Resp: 33057
Ion Ratio Lower Upper
112 100
114 29.0 22.2 41.2
77 56.0 41.3 61.9



#60
1,2,3-Trichloropropane
Concen: 5.895 ug/L
RT: 11.739 min Scan# 3234
Delta R.T. 0.923 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

Tgt Ion: 75 Resp: 11155
Ion Ratio Lower Upper
75 100
77 0.0 26.0 39.0#
110 10.3 32.6 48.8#

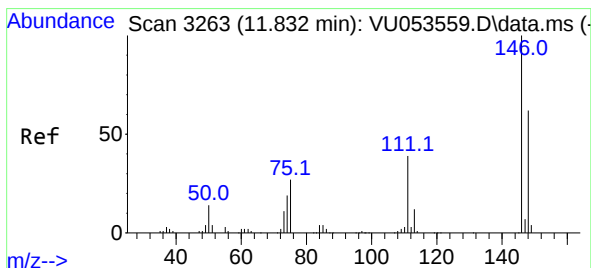
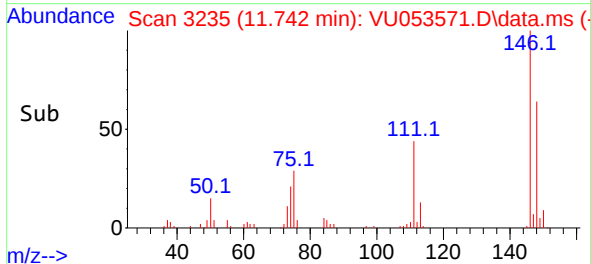
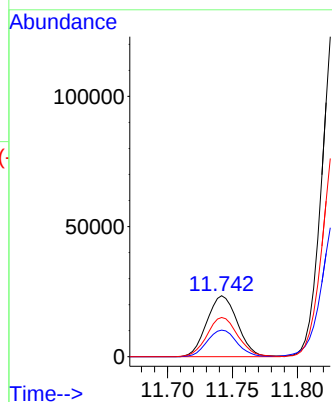
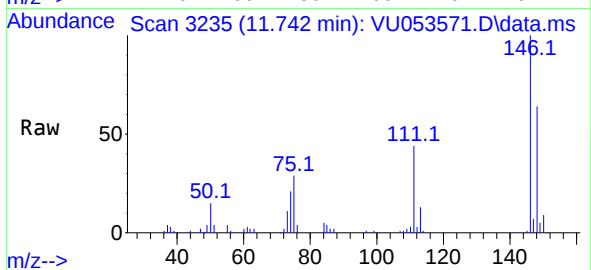




#64
1,3-Dichlorobenzene
Concen: 9.533 ug/L
RT: 11.742 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

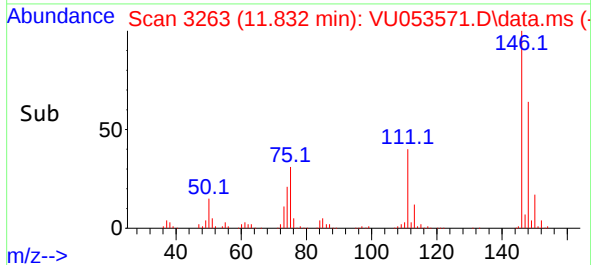
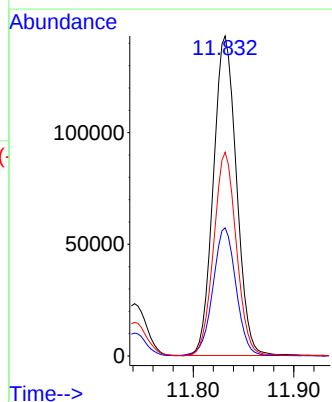
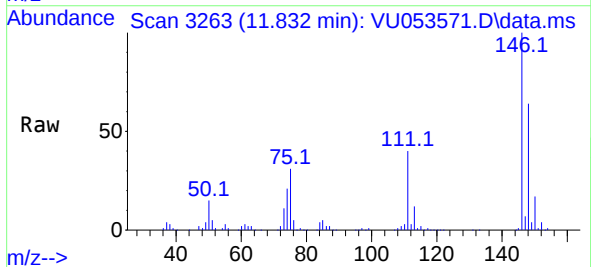
Instrument :
MSVOA_U
ClientSampleId :

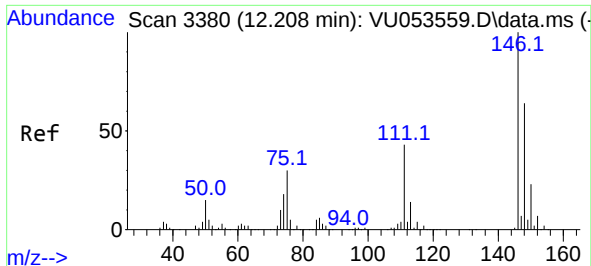
Tgt Ion:146 Resp: 38435
Ion Ratio Lower Upper
146 100
111 43.6 25.7 47.7
148 64.2 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 55.610 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU053571.D
Acq: 04 Apr 2023 19:06

Tgt Ion:146 Resp: 228507
Ion Ratio Lower Upper
146 100
111 40.1 25.1 46.5
148 63.7 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 0.969 ug/L

RT: 12.205 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU053571.D

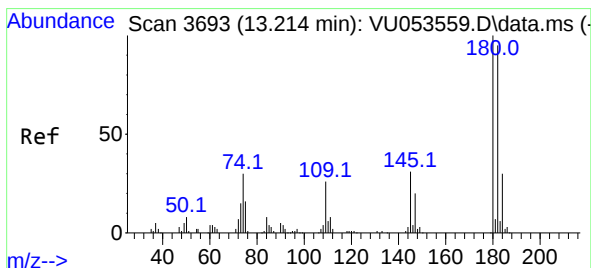
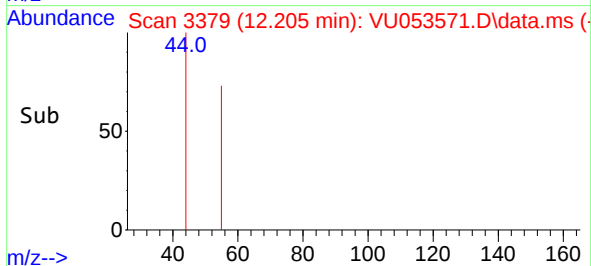
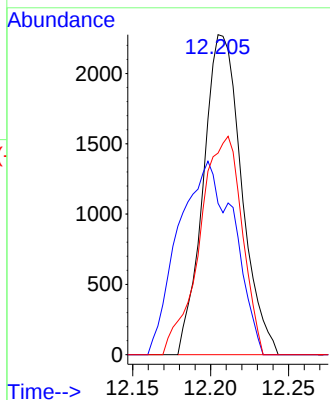
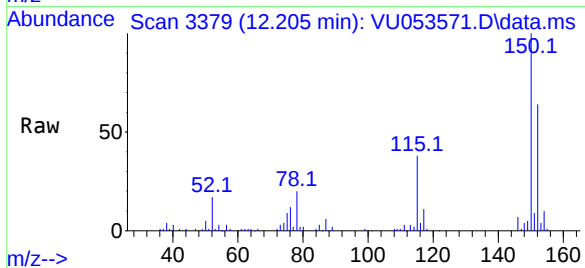
Acq: 04 Apr 2023 19:06

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:146	Resp:	3894
Ion Ratio	Lower	Upper
146	100	
111	47.3	31.5 47.3#
148	63.0	51.6 77.4



#69

1,3,5-Trichlorobenzene

Concen: 3.809 ug/L

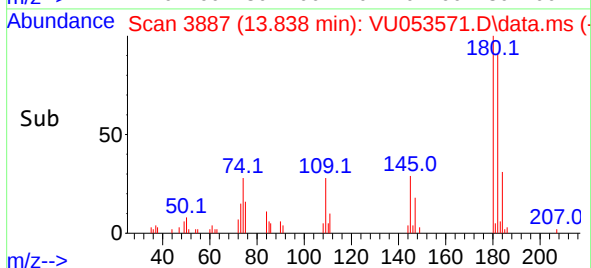
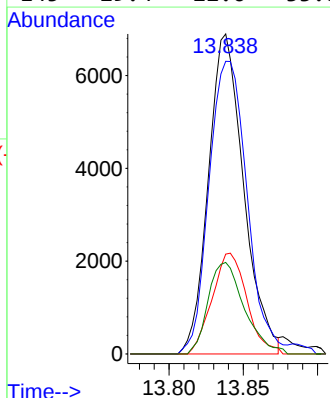
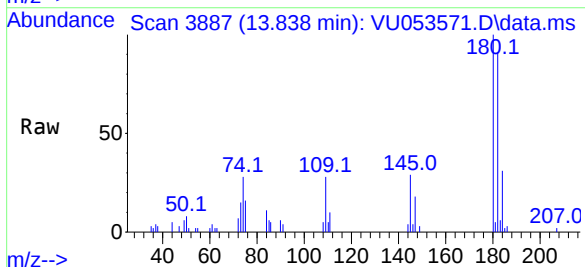
RT: 13.838 min Scan# 3887

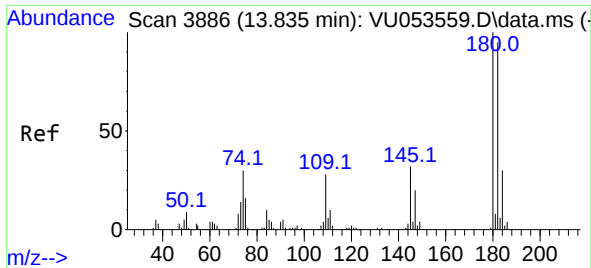
Delta R.T. 0.624 min

Lab File: VU053571.D

Acq: 04 Apr 2023 19:06

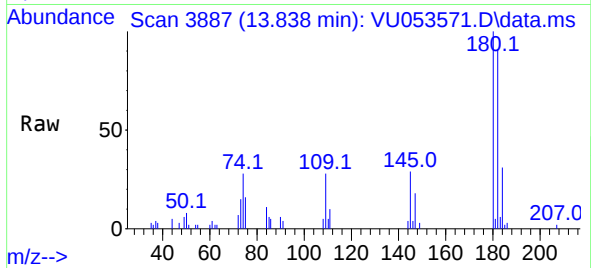
Tgt Ion:180	Resp:	11373
Ion Ratio	Lower	Upper
180	100	
182	98.7	75.6 113.4
184	31.1	24.2 36.2
145	29.4	22.6 33.8





#70
 1,2,4-trichlorobenzene
 Concen: 4.109 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.003 min
 Lab File: VU053571.D
 Acq: 04 Apr 2023 19:06

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 11373
 Ion Ratio Lower Upper
 180 100
 182 98.7 75.8 113.8
 145 29.4 23.4 35.2

