

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032823\
 Data File : VU053452.D
 Acq On : 28 Mar 2023 22:56
 Operator : JC/MD
 Sample : 02037-01DL 200X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E45E4DL

Quant Time: Mar 29 04:18:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM031523WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Mar 29 02:16:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	203019	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.411	117	194045	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	92349	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.598	65	80308	42.878	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.760%
7) Chloroethane-d5	1.913	69	66056	43.601	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.200%
11) 1,1-Dichloroethene-d2	2.565	63	102837	31.695	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	63.400%
21) 2-Butanone-d5	4.623	46	106195	122.247	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.250%
24) Chloroform-d	5.057	84	134187	43.498	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.000%
26) 1,2-Dichloroethane-d4	5.697	65	92999	48.542	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.080%
32) Benzene-d6	5.723	84	279133	44.350	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.700%
36) 1,2-Dichloropropane-d6	6.684	67	95102	46.818	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.640%
41) Toluene-d8	7.893	98	254188	43.378	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.760%
43) trans-1,3-Dichloroprop...	8.176	79	42052	41.958	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.920%
47) 2-Hexanone-d5	8.626	63	60553	95.349	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.350%
56) 1,1,2,2-Tetrachloroeth...	10.752	84	127066	48.288	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.580%
66) 1,2-Dichlorobenzene-d4	12.189	152	94689	52.954	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.900%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.569	96	1258	0.844	ug/L #	1
13) Acetone	2.636	43	14816	14.975	ug/L	87
17) trans-1,2-Dichloroethene	3.353	96	1464	0.968	ug/L	93
19) 1,1-Dichloroethane	3.864	63	191975	62.168	ug/L	97
20) cis-1,2-Dichloroethene	4.662	96	128012	72.045	ug/L	100
30) 1,1,1-Trichloroethane	5.311	97	89035	33.662	ug/L	99
31) Carbon tetrachloride	5.311	117	11335	5.231	ug/L	99
37) 1,2-Dichloropropane	6.684	63	10168	5.417	ug/L #	90
40) 4-Methyl-2-pentanone	7.790	43	6250	3.240	ug/L #	71
42) Toluene	7.964	91	120461	16.656	ug/L	98
46) Tetrachloroethene	8.543	164	1060	0.929	ug/L	92
49) Dibromochloromethane	8.549	129	2118	1.211	ug/L #	12
52) Ethylbenzene	9.565	91	18027	2.198	ug/L	99
53) m,p-Xylene	9.687	106	37151	12.136	ug/L	98
54) o-Xylene	10.096	106	21391	7.065	ug/L	98
62) 1,3,5-Trimethylbenzene	11.083	105	15108	2.501	ug/L	99
63) 1,2,4-Trimethylbenzene	11.462	105	37241	6.326	ug/L	99
67) 1,2-Dichlorobenzene	12.208	146	10044	3.284	ug/L	98
71) Naphthalene	14.089	128	11936	2.031	ug/L #	96

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QLast Update : Wed Mar 29 02:16:14 2023
Response via : Initial Calibration

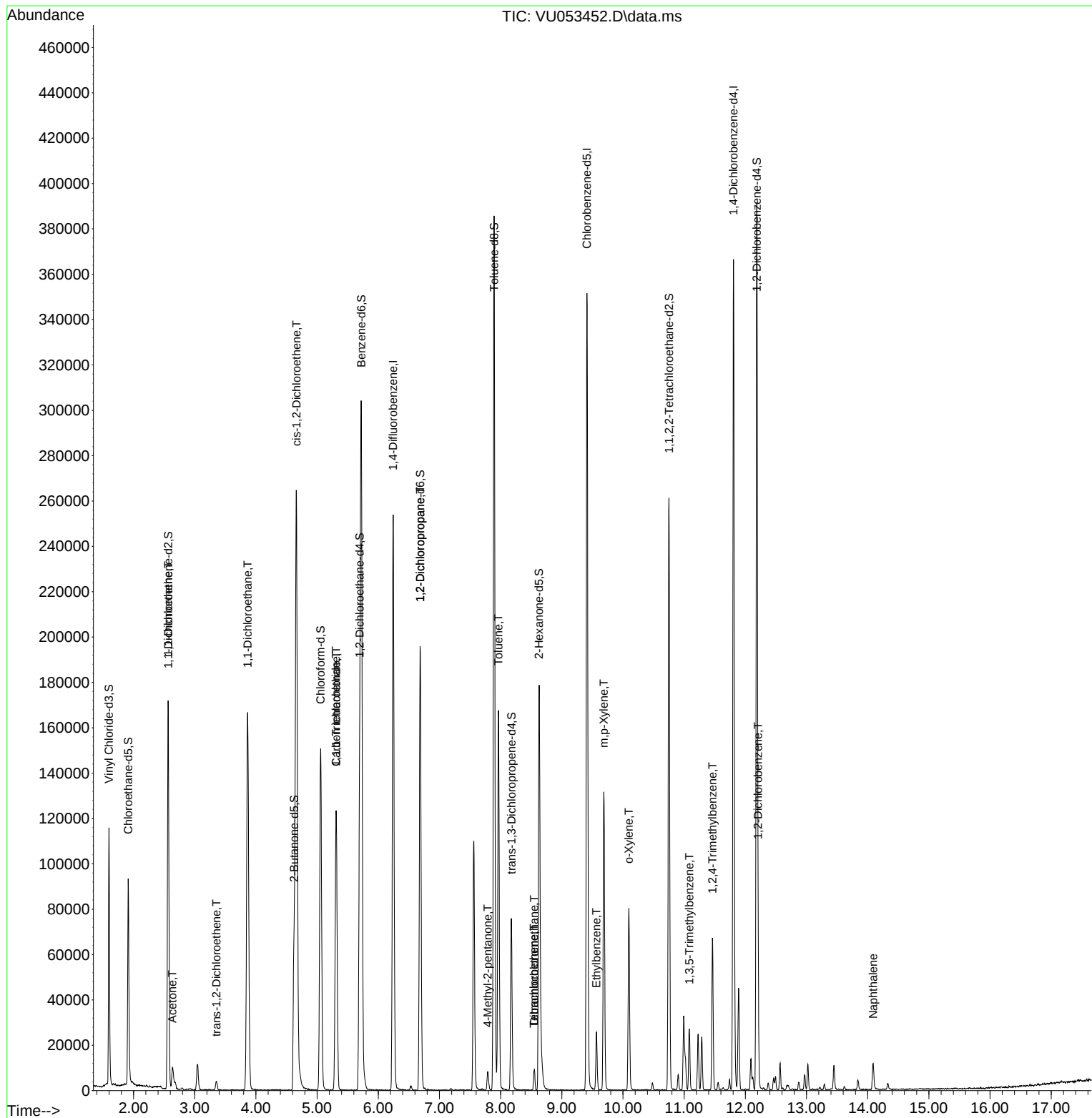
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

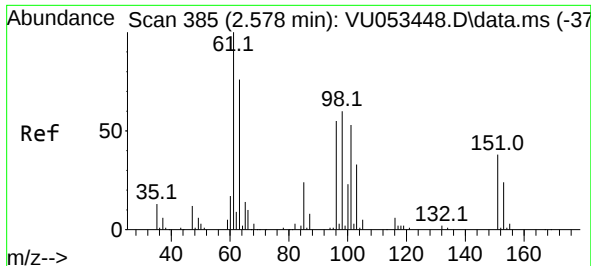
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.844 ug/L

RT: 2.569 min Scan# 31

Delta R.T. -0.009 min

Lab File: VU053452.D

Acq: 28 Mar 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

E45E4DL

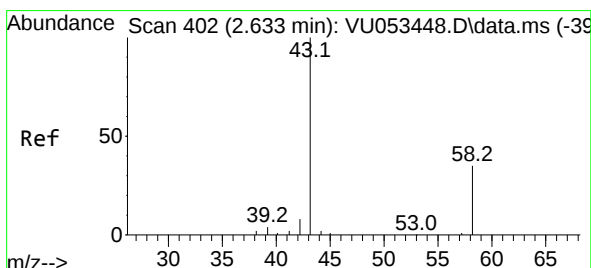
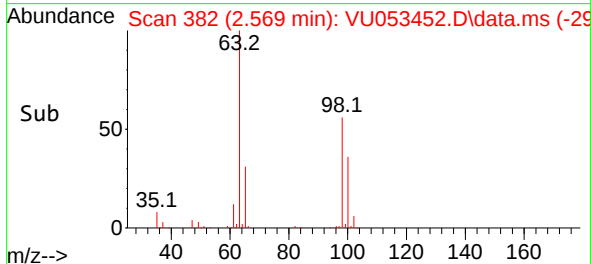
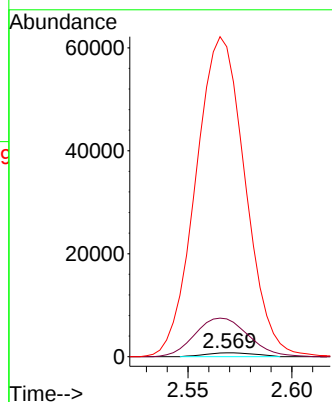
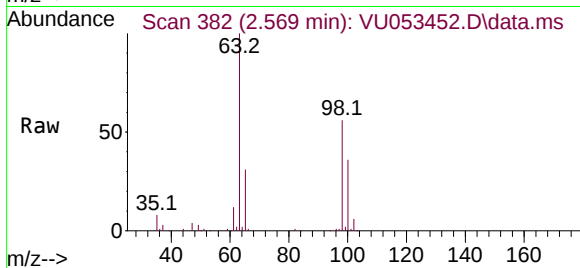
Tgt Ion: 96 Resp: 1258

Ion Ratio Lower Upper

96 100

61 976.1 122.2 226.9#

63 7995.8 89.9 166.9#



#13

Acetone

Concen: 14.975 ug/L

RT: 2.636 min Scan# 403

Delta R.T. 0.004 min

Lab File: VU053452.D

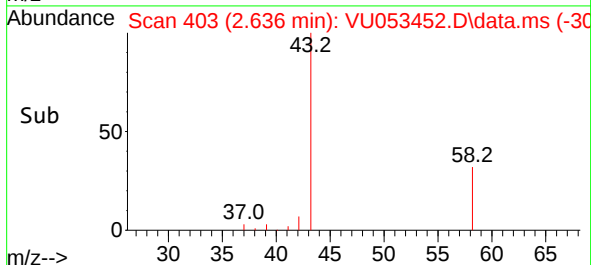
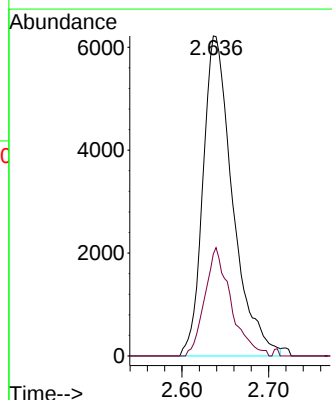
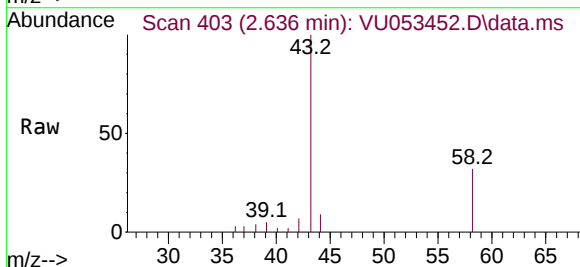
Acq: 28 Mar 2023 22:56

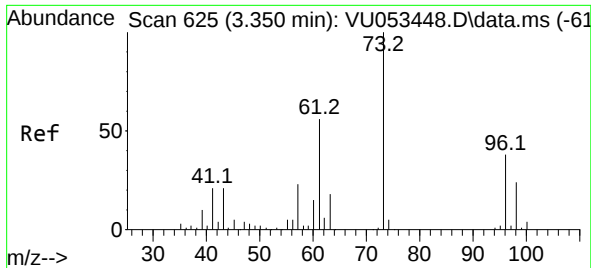
Tgt Ion: 43 Resp: 14816

Ion Ratio Lower Upper

43 100

58 29.7 0.0 75.0



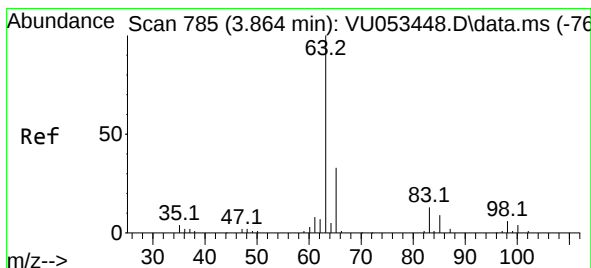
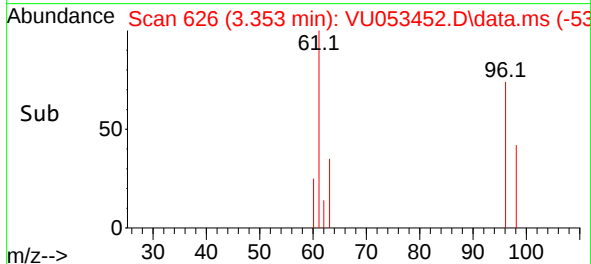
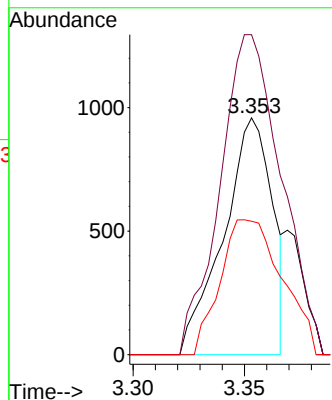
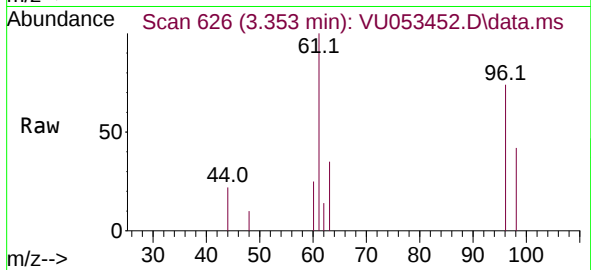


#17
trans-1,2-Dichloroethene
Concen: 0.968 ug/L
RT: 3.353 min Scan# 61
Delta R.T. 0.004 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

Tgt Ion: 96 Resp: 1464

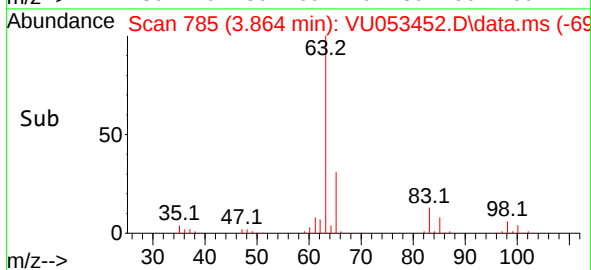
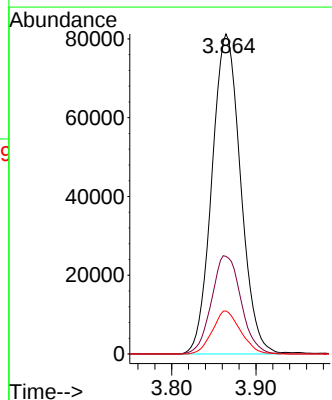
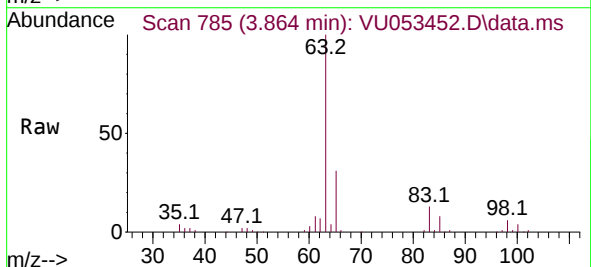
Ion	Ratio	Lower	Upper
96	100		
61	135.2	99.6	185.0
98	56.4	45.5	84.5

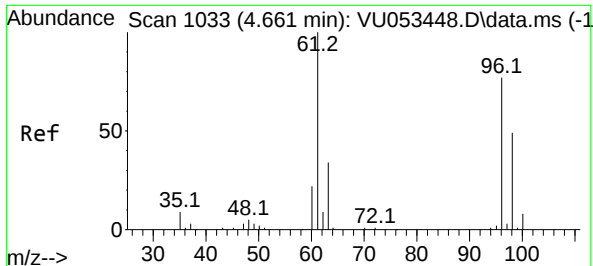


#19
1,1-Dichloroethane
Concen: 62.168 ug/L
RT: 3.864 min Scan# 785
Delta R.T. 0.000 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

Tgt Ion: 63 Resp: 191975

Ion	Ratio	Lower	Upper
63	100		
65	30.5	22.8	42.4
83	13.5	9.4	17.6

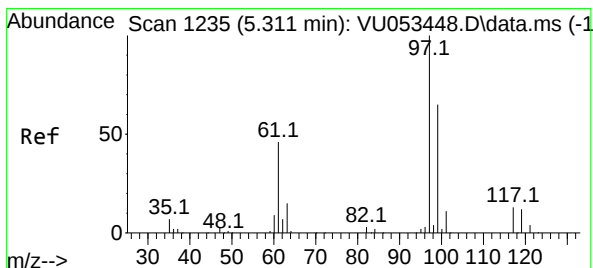
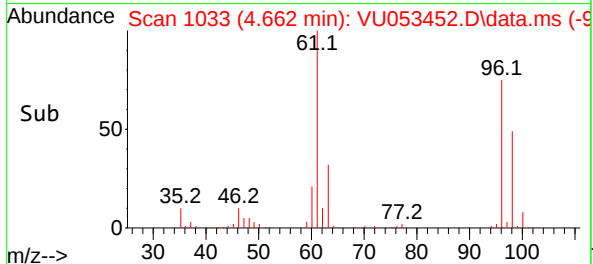
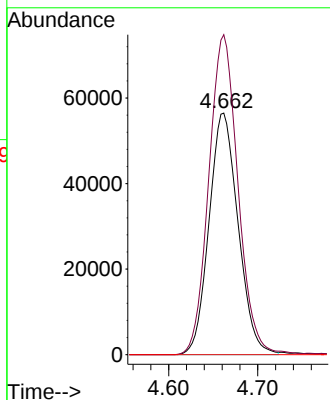
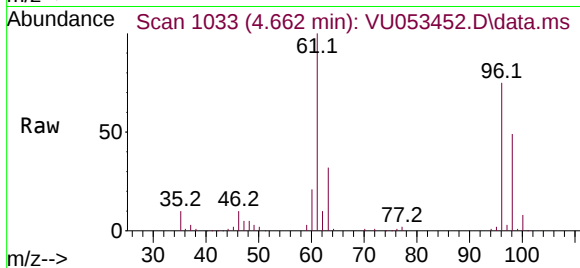




#20
 cis-1,2-Dichloroethene
 Concen: 72.045 ug/L
 RT: 4.662 min Scan# 1033
 Delta R.T. 0.000 min
 Lab File: VU053452.D
 Acq: 28 Mar 2023 22:56

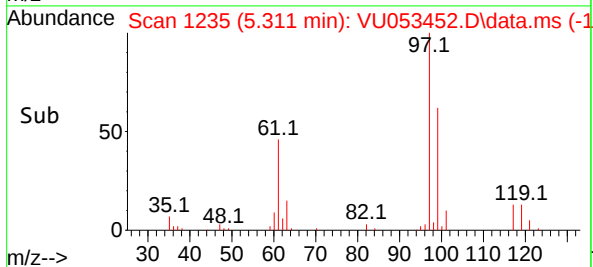
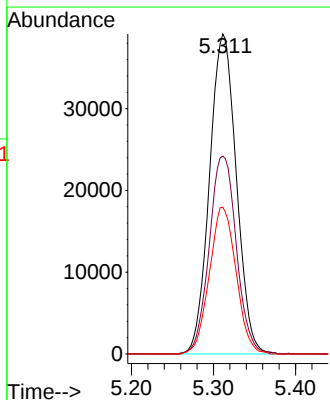
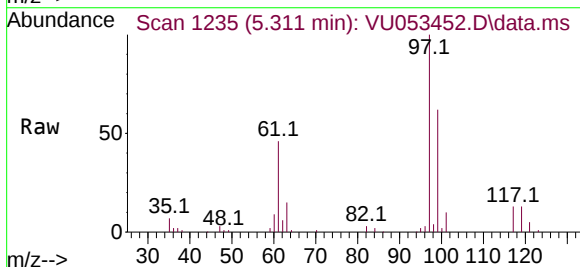
Instrument :
 MSVOA_U
 ClientSampleId :
 E45E4DL

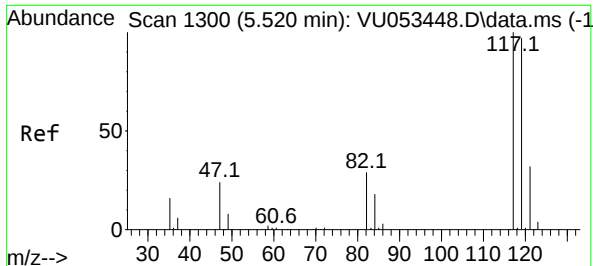
Tgt Ion: 96 Resp: 128012
 Ion Ratio Lower Upper
 96 100
 61 132.5 92.5 171.7
 68 0.0 0.0 0.0



#30
 1,1,1-Trichloroethane
 Concen: 33.662 ug/L
 RT: 5.311 min Scan# 1235
 Delta R.T. 0.000 min
 Lab File: VU053452.D
 Acq: 28 Mar 2023 22:56

Tgt Ion: 97 Resp: 89035
 Ion Ratio Lower Upper
 97 100
 99 62.7 50.6 76.0
 61 45.7 36.0 54.0

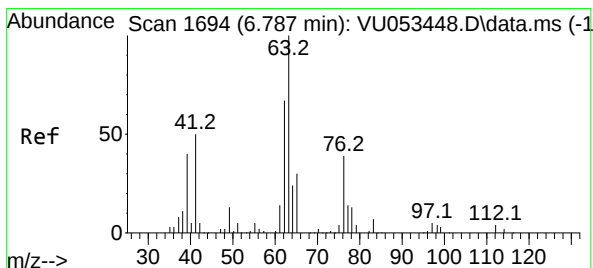
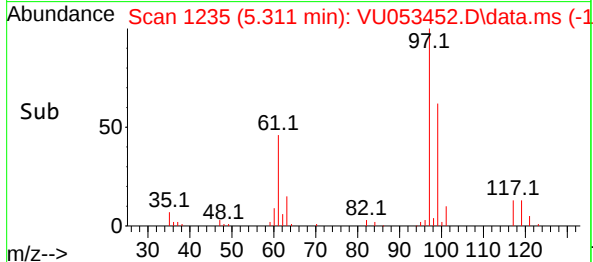
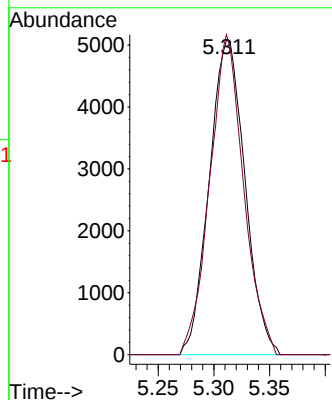
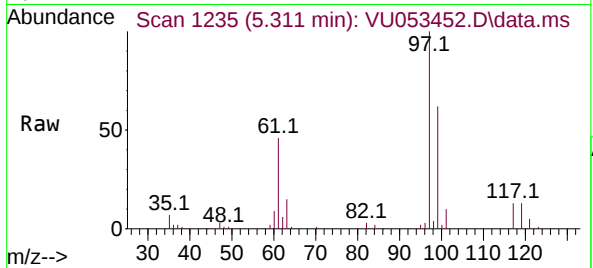




#31
Carbon tetrachloride
Concen: 5.231 ug/L
RT: 5.311 min Scan# 117
Delta R.T. -0.209 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

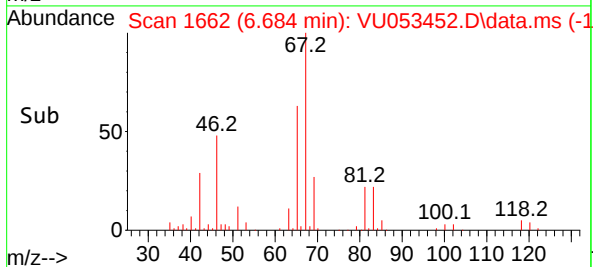
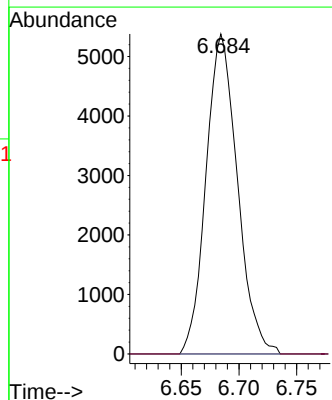
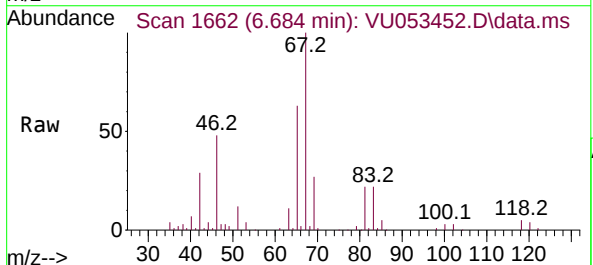
Instrument :
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ClientSampleId :
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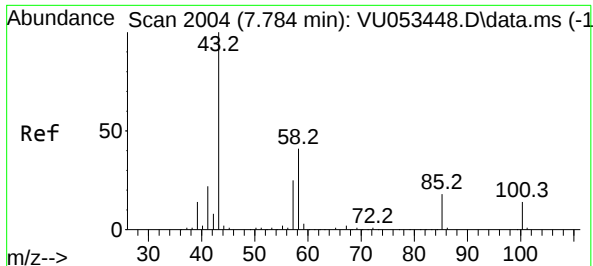
Tgt Ion:117 Resp: 11335
Ion Ratio Lower Upper
117 100
119 96.2 76.2 114.2



#37
1,2-Dichloropropane
Concen: 5.417 ug/L
RT: 6.684 min Scan# 1662
Delta R.T. -0.103 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

Tgt Ion: 63 Resp: 10168
Ion Ratio Lower Upper
63 100
112 0.0 2.6 3.8#





#40

4-Methyl-2-pentanone

Concen: 3.240 ug/L

RT: 7.790 min Scan# 2004

Delta R.T. 0.007 min

Lab File: VU053452.D

Acq: 28 Mar 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

E45E4DL

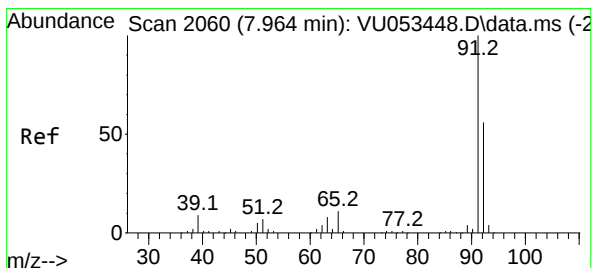
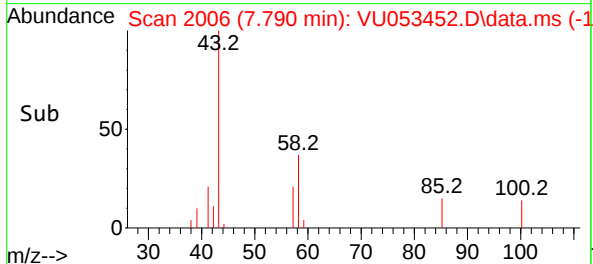
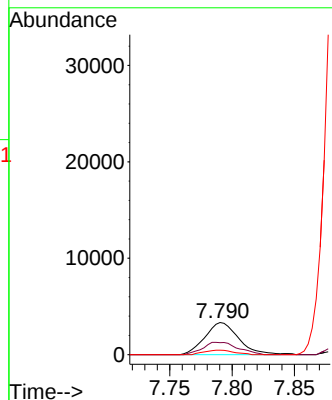
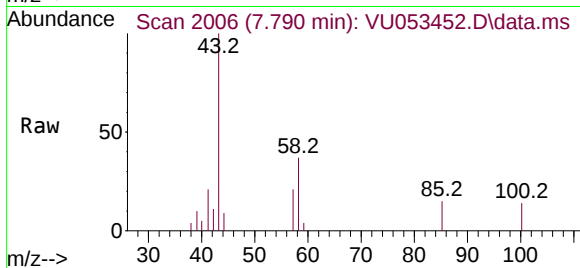
Tgt Ion: 43 Resp: 6250

Ion Ratio Lower Upper

43 100

58 21.1 35.8 53.6#

100 12.5 13.0 19.6#



#42

Toluene

Concen: 16.656 ug/L

RT: 7.964 min Scan# 2060

Delta R.T. 0.000 min

Lab File: VU053452.D

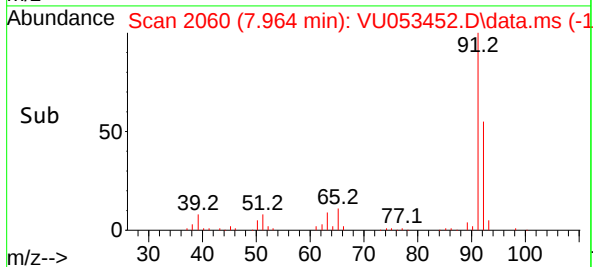
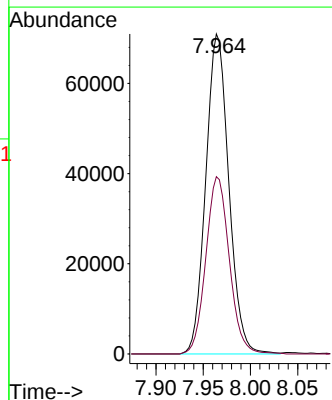
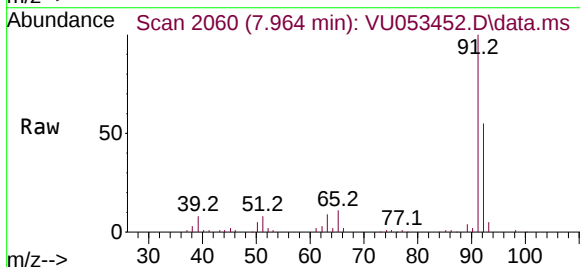
Acq: 28 Mar 2023 22:56

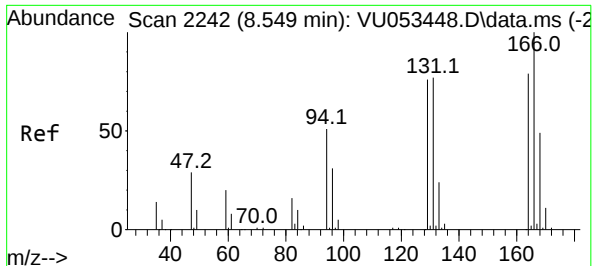
Tgt Ion: 91 Resp: 120461

Ion Ratio Lower Upper

91 100

92 55.4 39.6 73.6

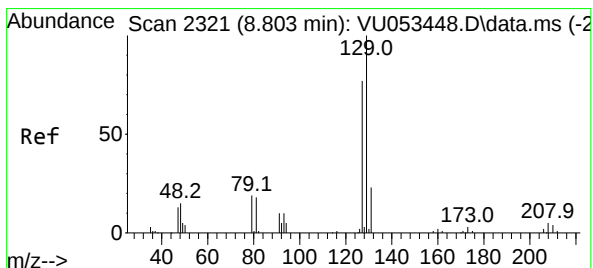
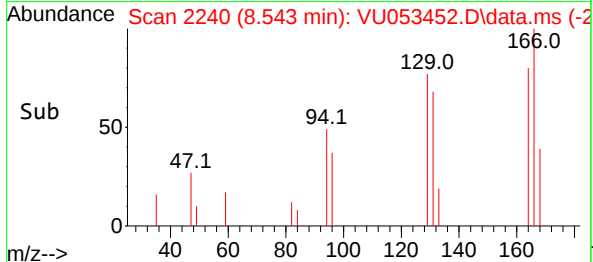
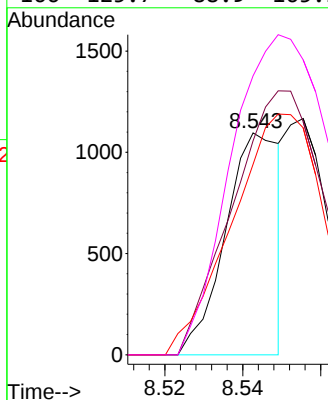
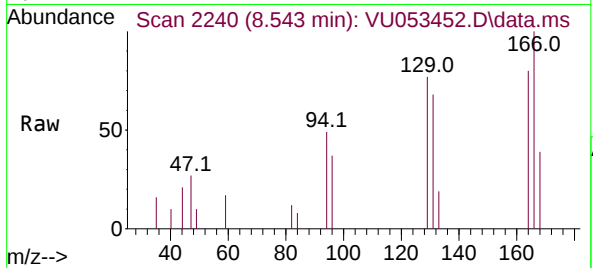




#46
Tetrachloroethene
Concen: 0.929 ug/L
RT: 8.543 min Scan# 21
Delta R.T. -0.006 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

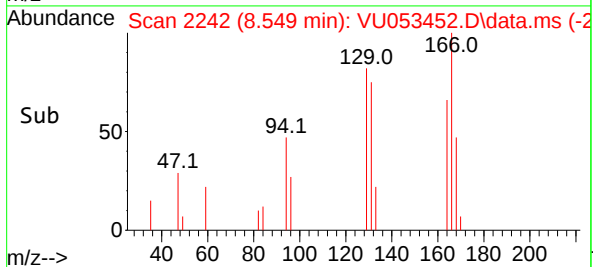
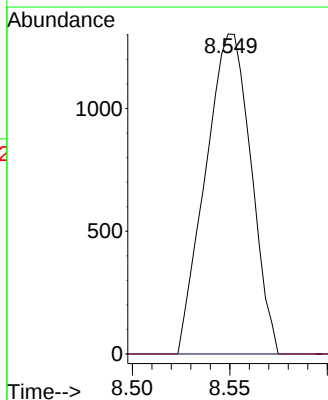
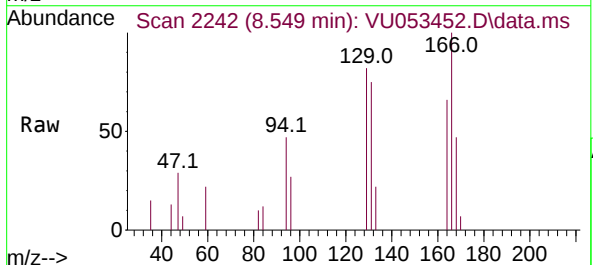
Instrument :
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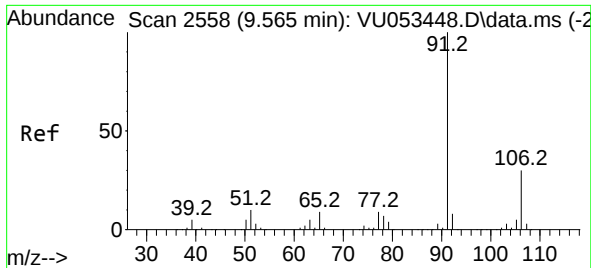
Tgt	Ion:164	Resp:	1060
Ion	Ratio	Lower	Upper
164	100		
129	96.4	73.6	136.8
131	85.9	70.3	130.7
166	125.7	88.9	165.1



#49
Dibromochloromethane
Concen: 1.211 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.254 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

Tgt Ion:129	Resp:	2118	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.1	98.5#

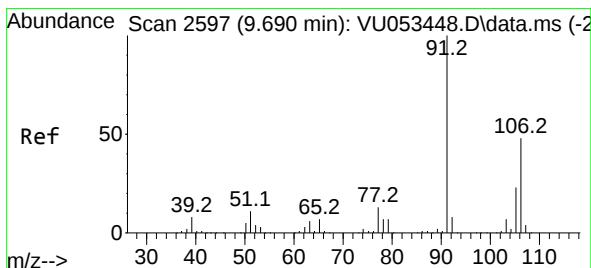
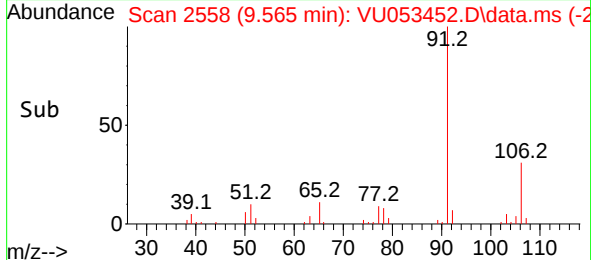
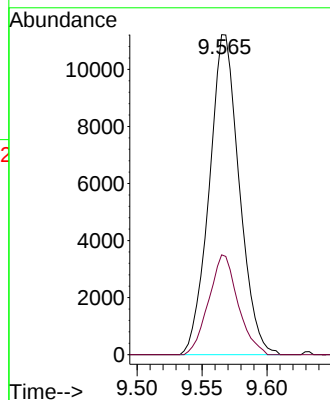
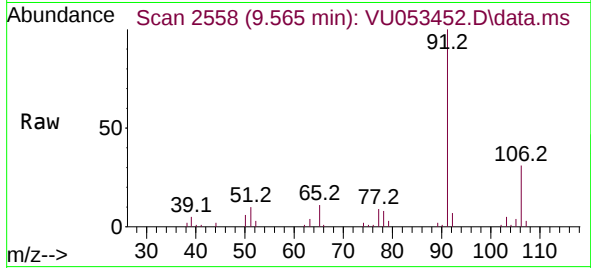




#52
Ethylbenzene
Concen: 2.198 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. 0.000 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

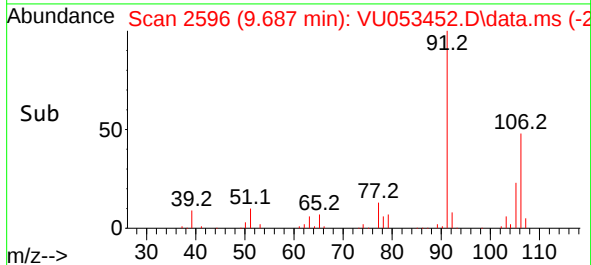
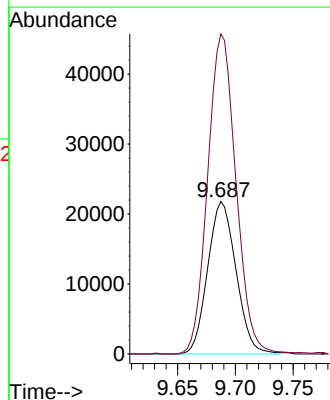
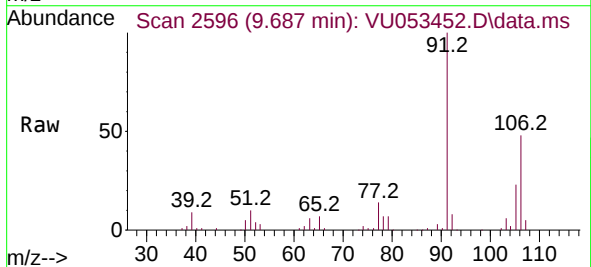
Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

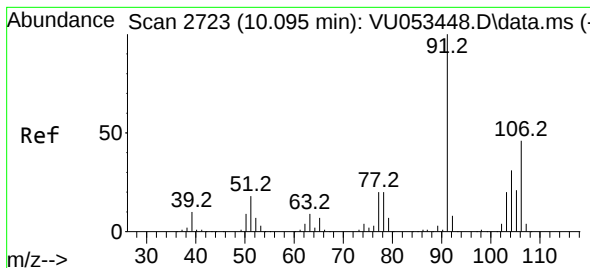
Tgt Ion: 91 Resp: 18027
Ion Ratio Lower Upper
91 100
106 31.2 21.6 40.0



#53
m,p-Xylene
Concen: 12.136 ug/L
RT: 9.687 min Scan# 2596
Delta R.T. -0.003 min
Lab File: VU053452.D
Acq: 28 Mar 2023 22:56

Tgt Ion: 106 Resp: 37151
Ion Ratio Lower Upper
106 100
91 209.9 145.3 269.8





#54

o-Xylene

Concen: 7.065 ug/L

RT: 10.096 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU053452.D

Acq: 28 Mar 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

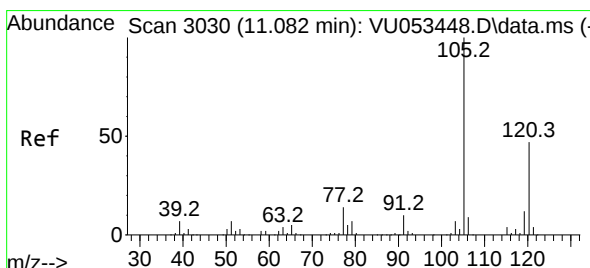
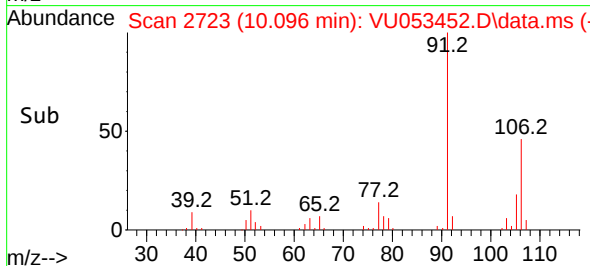
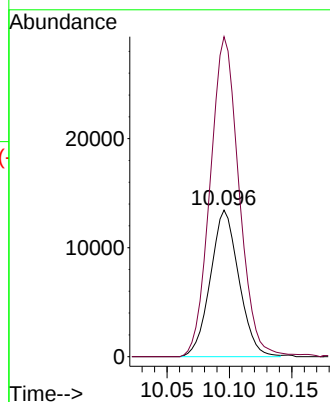
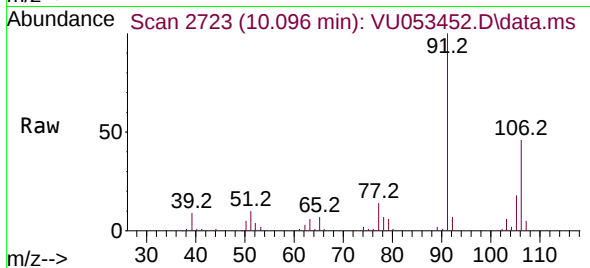
E45E4DL

Tgt Ion:106 Resp: 21391

Ion Ratio Lower Upper

106 100

91 218.2 154.9 287.7



#62

1,3,5-Trimethylbenzene

Concen: 2.501 ug/L

RT: 11.083 min Scan# 3030

Delta R.T. 0.000 min

Lab File: VU053452.D

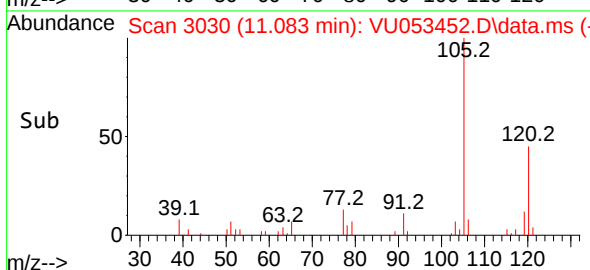
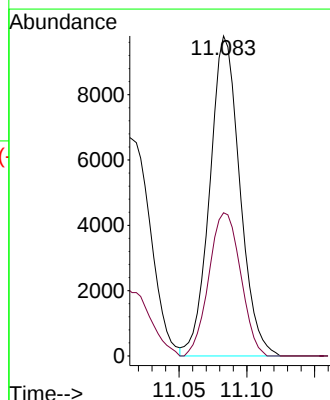
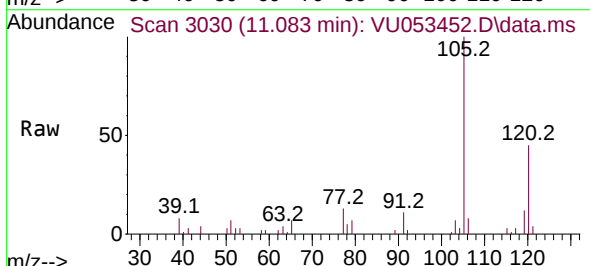
Acq: 28 Mar 2023 22:56

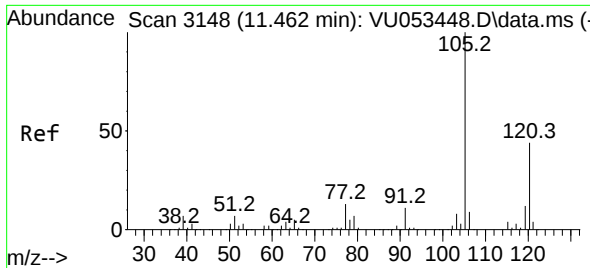
Tgt Ion:105 Resp: 15108

Ion Ratio Lower Upper

105 100

120 47.2 37.0 55.4

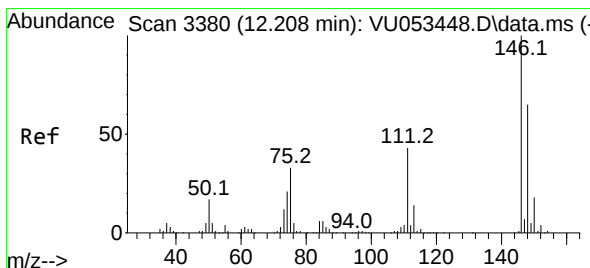
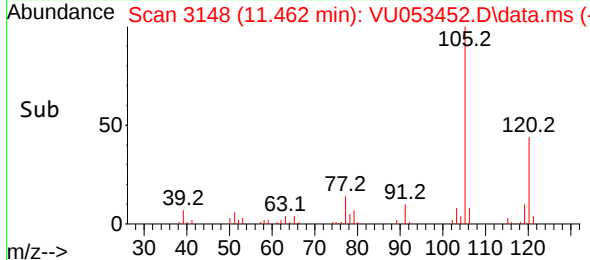
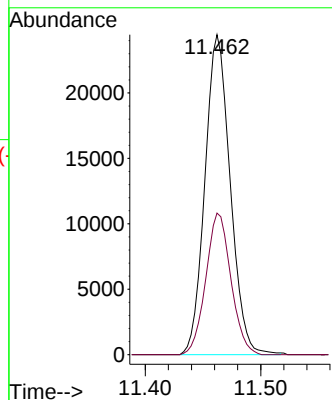
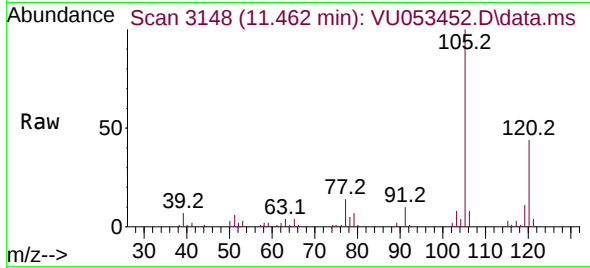




#63
 1,2,4-Trimethylbenzene
 Concen: 6.326 ug/L
 RT: 11.462 min Scan# 3148
 Delta R.T. 0.000 min
 Lab File: VU053452.D
 Acq: 28 Mar 2023 22:56

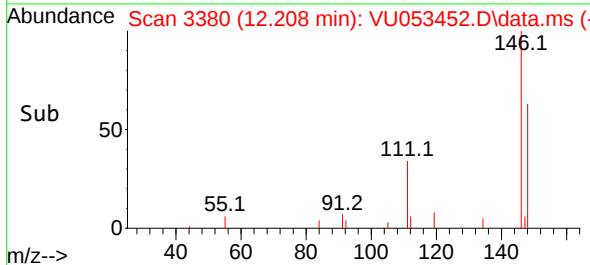
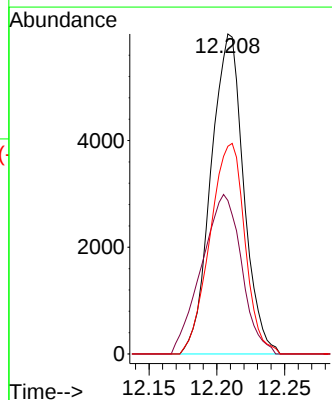
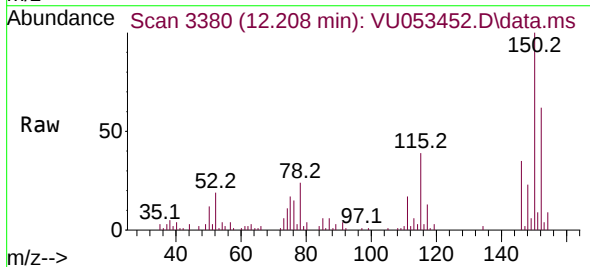
Instrument :
 MSVOA_U
 ClientSampleId :
 E45E4DL

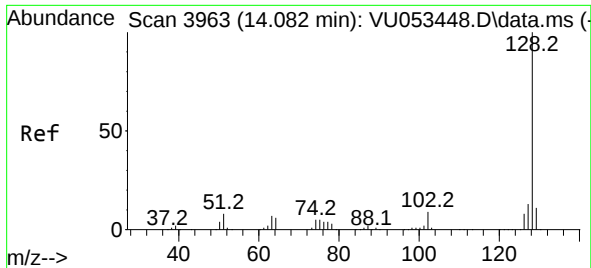
Tgt Ion:105 Resp: 37241
 Ion Ratio Lower Upper
 105 100
 120 43.9 34.6 52.0



#67
 1,2-Dichlorobenzene
 Concen: 3.284 ug/L
 RT: 12.208 min Scan# 3380
 Delta R.T. 0.000 min
 Lab File: VU053452.D
 Acq: 28 Mar 2023 22:56

Tgt Ion:146 Resp: 10044
 Ion Ratio Lower Upper
 146 100
 111 47.9 37.0 55.4
 148 64.9 51.4 77.2





#71

Naphthalene

Concen: 2.031 ug/L

RT: 14.089 min Scan# 3965

Delta R.T. 0.007 min

Lab File: VU053452.D

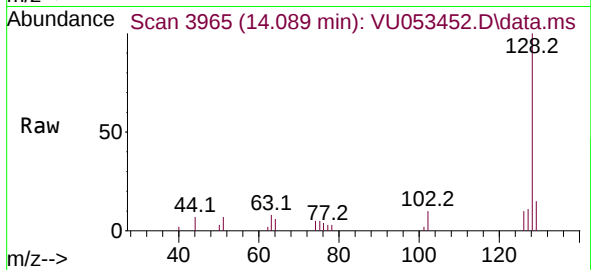
Acq: 28 Mar 2023 22:56

Instrument :

MSVOA_U

ClientSampleId :

E45E4DL



Tgt Ion:	128	Resp:	11936
Ion	Ratio	Lower	Upper
128	100		
127	10.0	10.0	15.0#
129	11.4	8.6	13.0

