

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032323\
 Data File : VU053370.D
 Acq On : 23 Mar 2023 14:38
 Operator : JC/MD
 Sample : 02037-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E45E5

Quant Time: Mar 24 12:20:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM031523WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 23 02:41:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	176334	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	164992	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	79166	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	56960	35.014	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.020%
7) Chloroethane-d5	1.912	69	39833	30.271	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	60.540%#
11) 1,1-Dichloroethene-d2	2.578	63	143484	50.915	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.840%
21) 2-Butanone-d5	4.713	46	35919	47.606	ug/L	0.09
Spiked Amount	100.000	Range	40 - 130	Recovery	=	47.610%
24) Chloroform-d	5.067	84	87534	32.669	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	65.340%#
26) 1,2-Dichloroethane-d4	5.700	65	59033	35.476	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	70.960%
32) Benzene-d6	5.726	84	178822	33.415	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	66.820%#
36) 1,2-Dichloropropane-d6	6.687	67	59580	34.495	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	69.000%#
41) Toluene-d8	7.893	98	167996	33.717	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	67.440%#
43) trans-1,3-Dichloroprop...	8.173	79	30621	35.933	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.860%
47) 2-Hexanone-d5	8.626	63	47328	87.647	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.650%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	88700	39.643	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	79.280%
66) 1,2-Dichlorobenzene-d4	12.188	152	58385	38.089	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	76.180%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	1196225	644.770	ug/L	99
8) Chloroethane	1.928	64	892	0.814	ug/L	89
12) 1,1-Dichloroethene	2.581	96	138758	107.150	ug/L #	82
13) Acetone	2.633	43	5340	6.214	ug/L	95
17) trans-1,2-Dichloroethene	3.353	96	1235415	940.234	ug/L	98
19) 1,1-Dichloroethane	3.870	63	296955	110.716	ug/L	99
30) 1,1,1-Trichloroethane	5.317	97	40855	18.166	ug/L #	90
31) Carbon tetrachloride	5.314	117	4937	2.680	ug/L	98
33) Benzene	5.771	78	129061	22.563	ug/L	100
34) Trichloroethene	6.536	95	727178	487.553	ug/L	99
40) 4-Methyl-2-pentanone	7.790	43	5224	3.185	ug/L	97
42) Toluene	7.964	91	239443	38.936	ug/L	98
46) Tetrachloroethene	8.552	164	1316371	1356.594	ug/L	99
52) Ethylbenzene	9.565	91	28127	4.033	ug/L	100
53) m,p-Xylene	9.687	106	38644	14.847	ug/L	96
54) o-Xylene	10.099	106	17593	6.834	ug/L	94
62) 1,3,5-Trimethylbenzene	11.082	105	20243	3.910	ug/L	98
63) 1,2,4-Trimethylbenzene	11.462	105	45389	8.994	ug/L	100
65) 1,4-Dichlorobenzene	11.832	146	2762	1.049	ug/L	96

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Response via : Initial Calibration

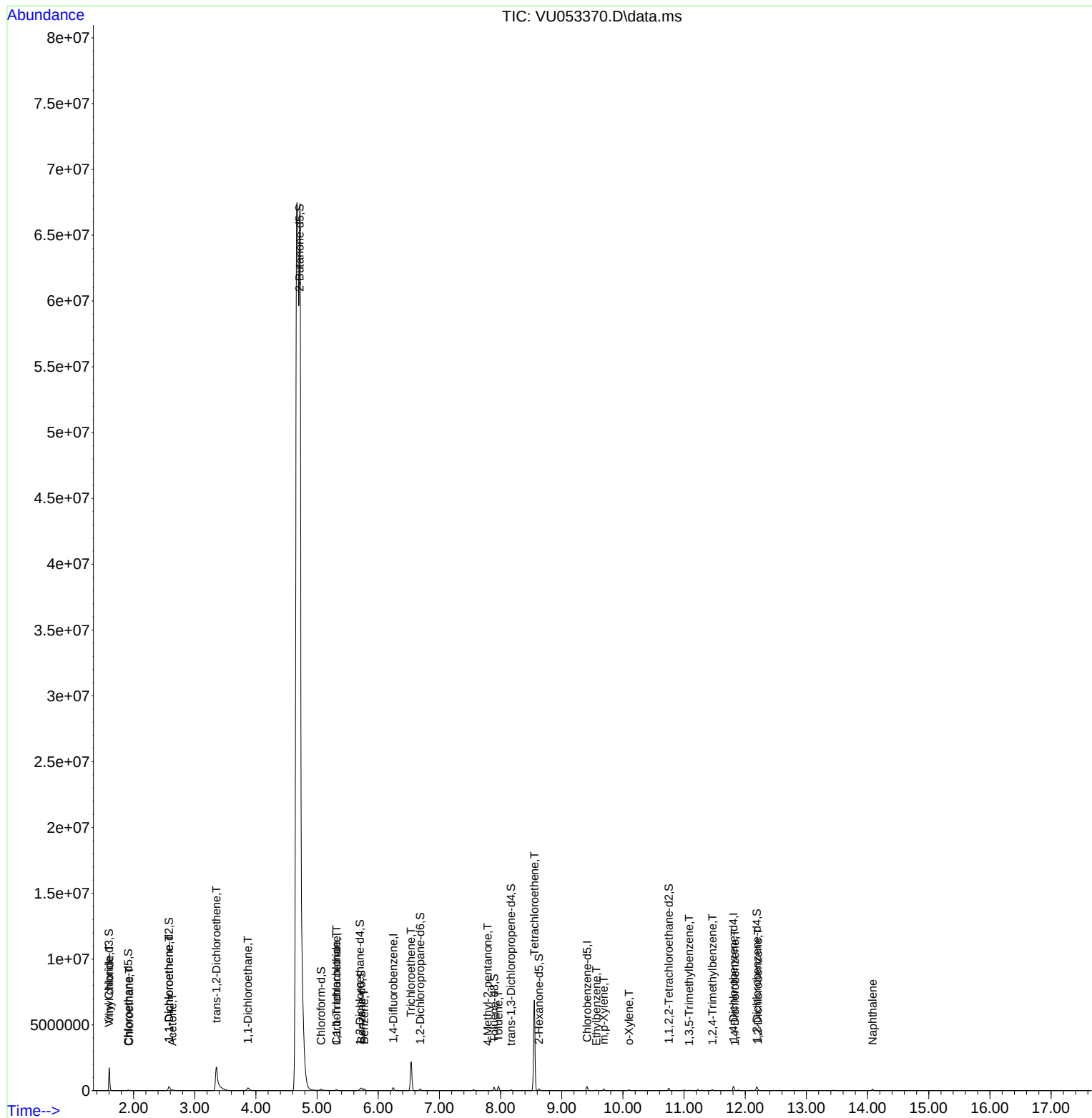
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.208	146	23662	9.025	ug/L	96
71) Naphthalene	14.082	128	82600	16.399	ug/L	99

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

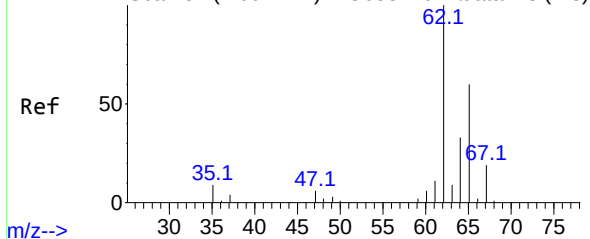
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032323\
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Abundance Scan 82 (1.604 min): VU053279.D\data.ms (-73)



#5

Vinyl chloride

Concen: 644.770 ug/L

RT: 1.604 min Scan# 81

Delta R.T. -0.000 min

Lab File: VU053370.D

Acq: 23 Mar 2023 14:38

Instrument :

MSVOA_U

ClientSampleId :

E45E5

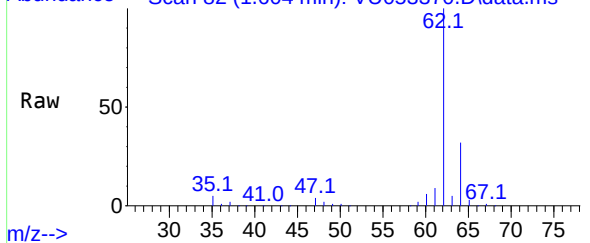
Tgt Ion: 62 Resp: 1196225

Ion Ratio Lower Upper

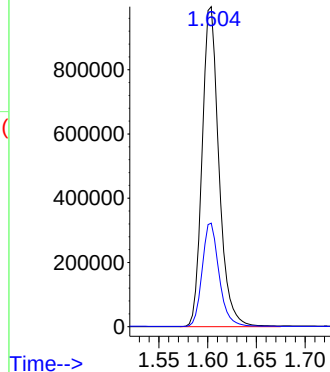
62 100

64 32.3 23.2 43.0

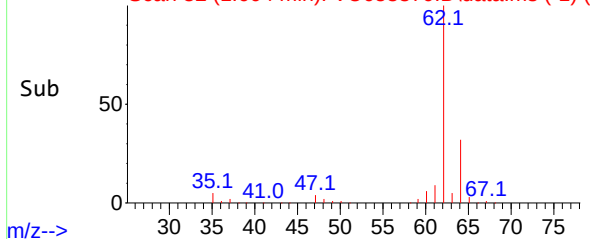
Abundance Scan 82 (1.604 min): VU053370.D\data.ms



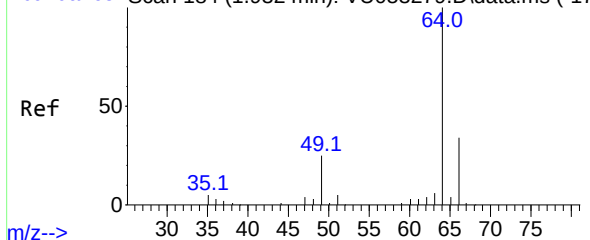
Abundance



Abundance Scan 82 (1.604 min): VU053370.D\data.ms (-1)



Abundance Scan 184 (1.932 min): VU053279.D\data.ms (-17)



#8

Chloroethane

Concen: 0.814 ug/L

RT: 1.928 min Scan# 183

Delta R.T. -0.003 min

Lab File: VU053370.D

Acq: 23 Mar 2023 14:38

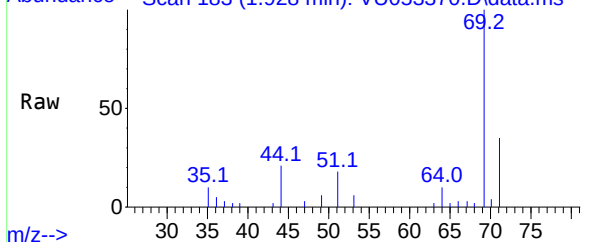
Tgt Ion: 64 Resp: 892

Ion Ratio Lower Upper

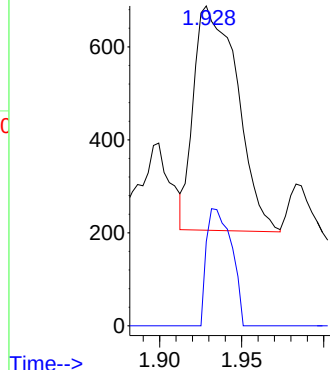
64 100

66 26.3 22.6 42.0

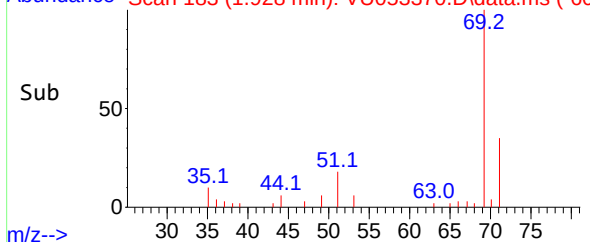
Abundance Scan 183 (1.928 min): VU053370.D\data.ms

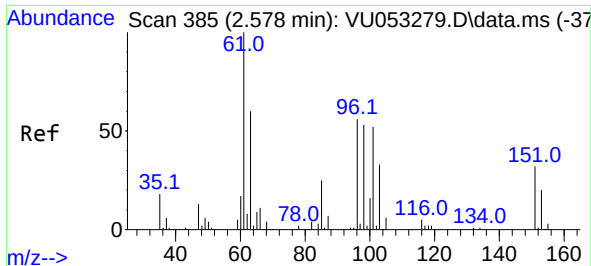


Abundance



Abundance Scan 183 (1.928 min): VU053370.D\data.ms (-60)

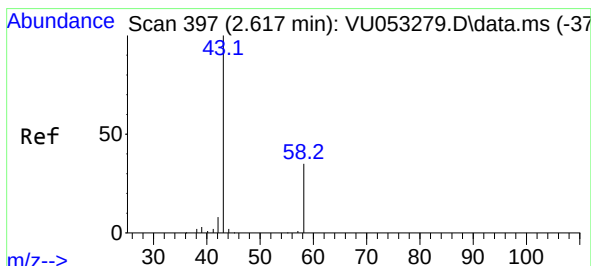
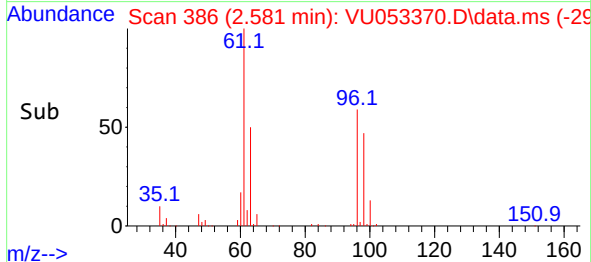
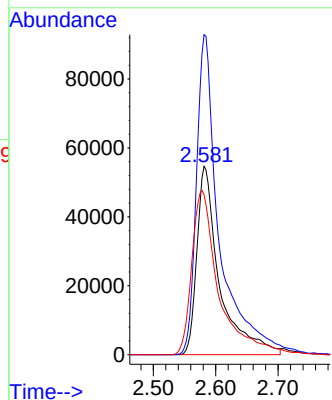
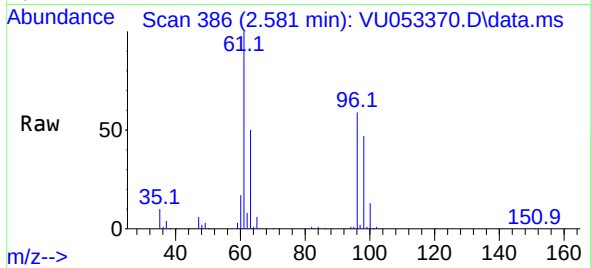




#12
1,1-Dichloroethene
Concen: 107.150 ug/L
RT: 2.581 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

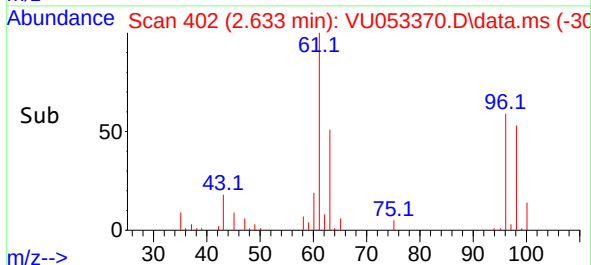
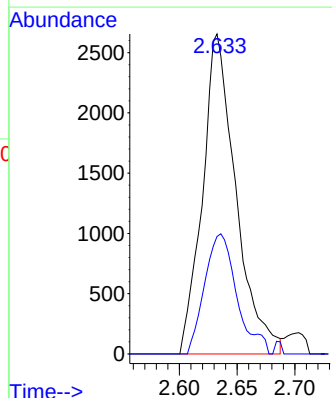
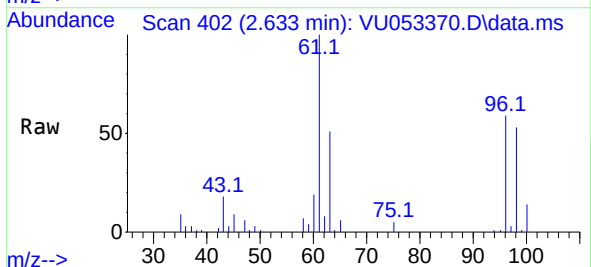
Instrument :
MSVOA_U
ClientSampleId :
E45E5

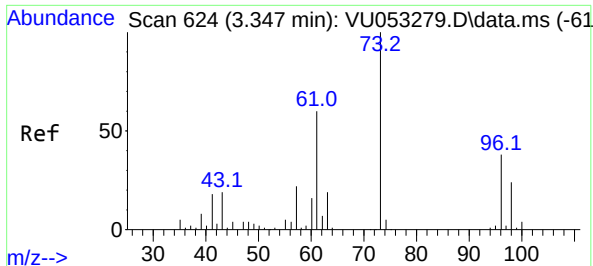
Tgt Ion: 96 Resp: 138758
Ion Ratio Lower Upper
96 100
61 170.0 122.2 226.9
63 84.9 89.9 166.9#



#13
Acetone
Concen: 6.214 ug/L
RT: 2.633 min Scan# 402
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Tgt Ion: 43 Resp: 5340
Ion Ratio Lower Upper
43 100
58 34.6 0.0 75.0

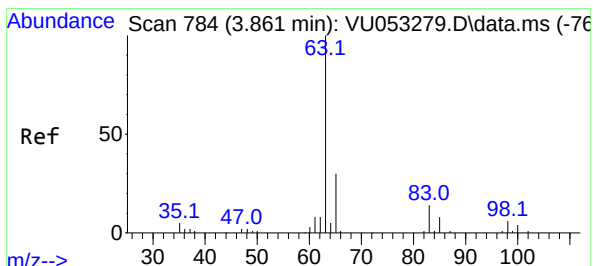
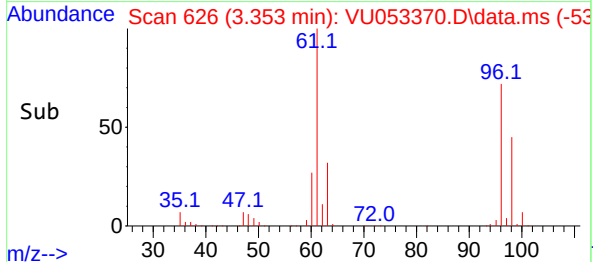
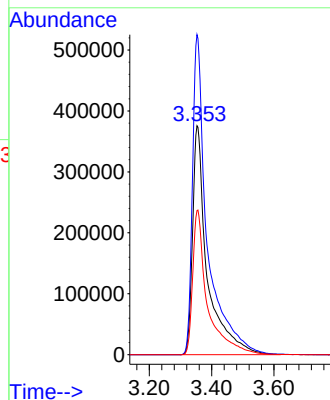
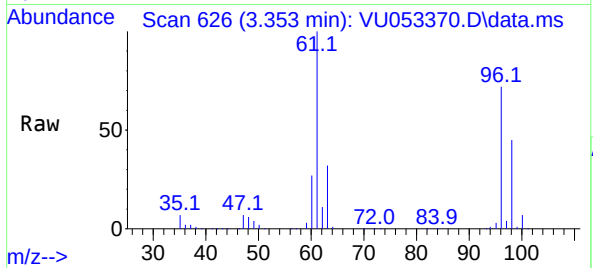




#17
trans-1,2-Dichloroethene
Concen: 940.234 ug/L
RT: 3.353 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

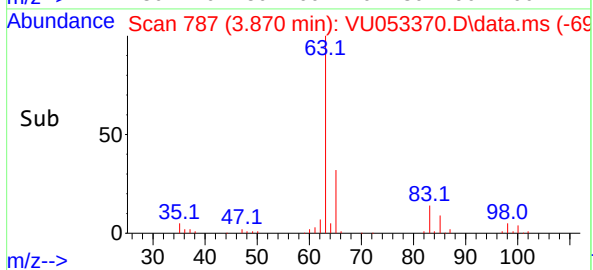
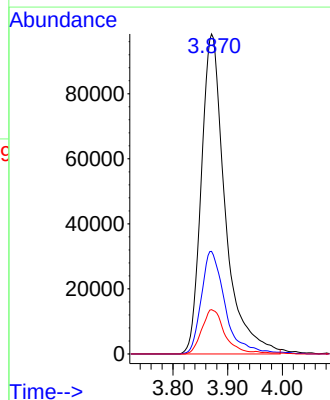
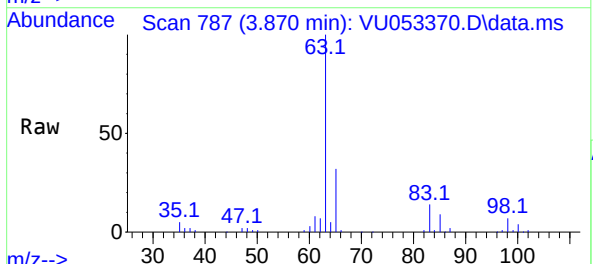
Instrument :
MSVOA_U
ClientSampleId :
E45E5

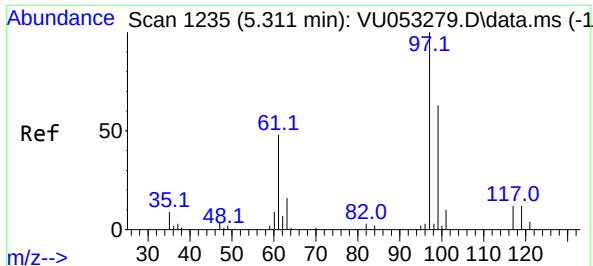
Tgt Ion: 96 Resp: 1235415
Ion Ratio Lower Upper
96 100
61 139.7 99.6 185.0
98 63.0 45.5 84.5



#19
1,1-Dichloroethane
Concen: 110.716 ug/L
RT: 3.870 min Scan# 787
Delta R.T. 0.006 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Tgt Ion: 63 Resp: 296955
Ion Ratio Lower Upper
63 100
65 32.0 22.8 42.4
83 13.8 9.4 17.6





#30

1,1,1-Trichloroethane

Concen: 18.166 ug/L

RT: 5.317 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU053370.D

Acq: 23 Mar 2023 14:38

Instrument :

MSVOA_U

ClientSampleId :

E45E5

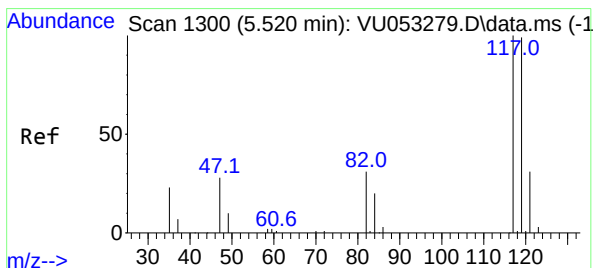
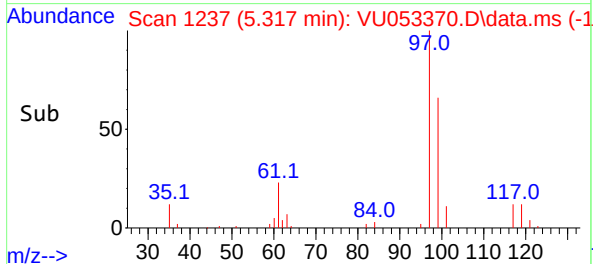
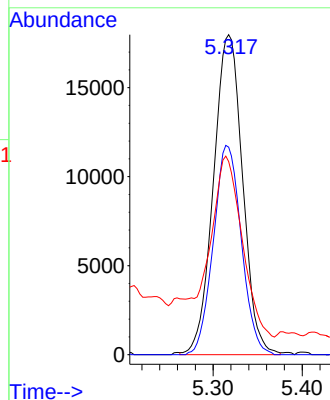
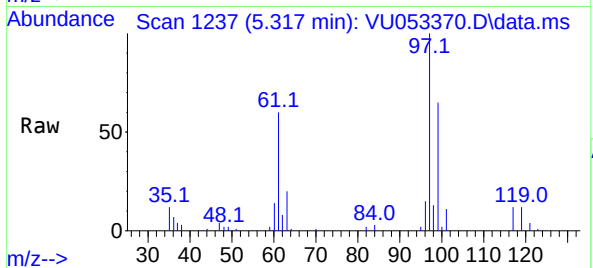
Tgt Ion: 97 Resp: 40855

Ion Ratio Lower Upper

97 100

99 62.8 50.6 76.0

61 59.4 36.0 54.0#



#31

Carbon tetrachloride

Concen: 2.680 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.206 min

Lab File: VU053370.D

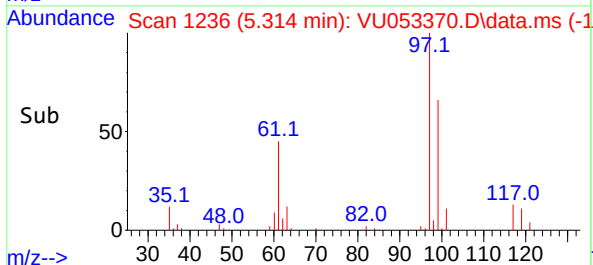
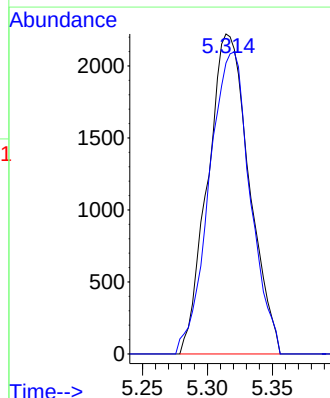
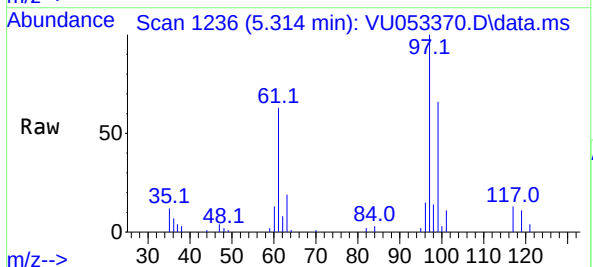
Acq: 23 Mar 2023 14:38

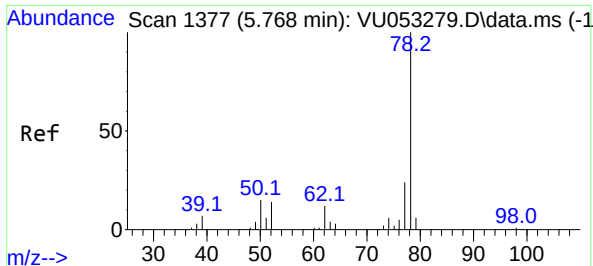
Tgt Ion:117 Resp: 4937

Ion Ratio Lower Upper

117 100

119 93.1 76.2 114.2

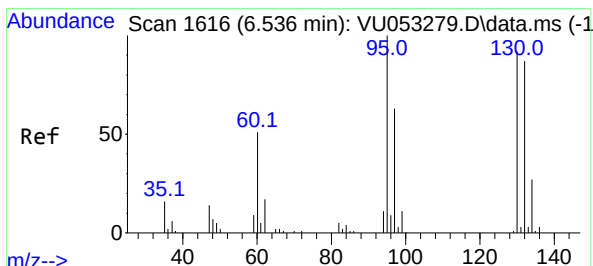
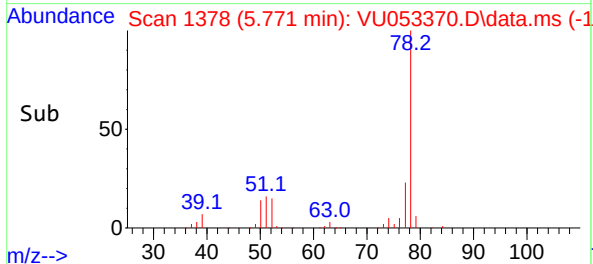
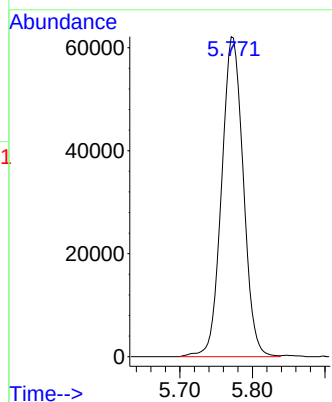
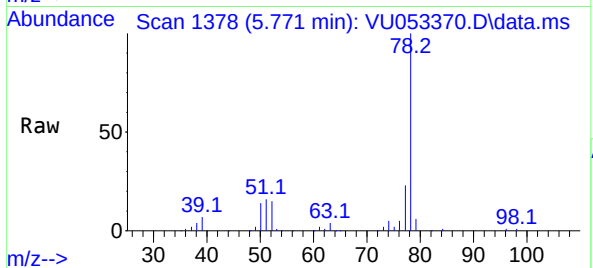




#33
Benzene
Concen: 22.563 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Instrument :
MSVOA_U
ClientSampleId :
E45E5

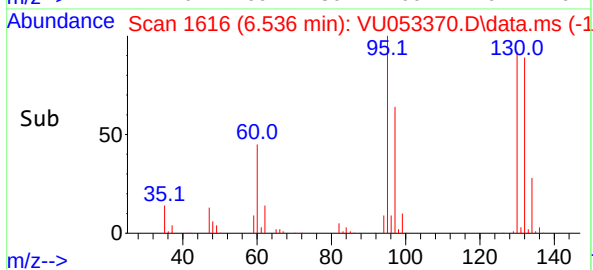
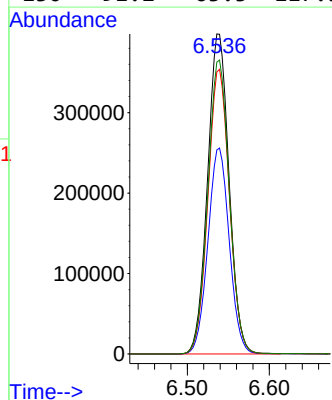
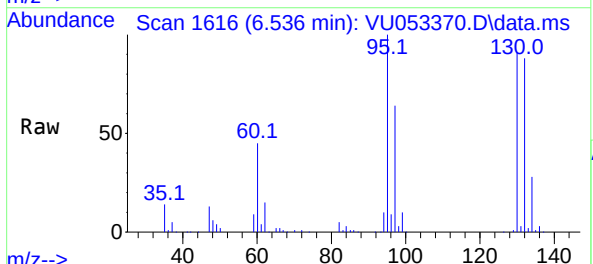
Tgt Ion: 78 Resp: 129061

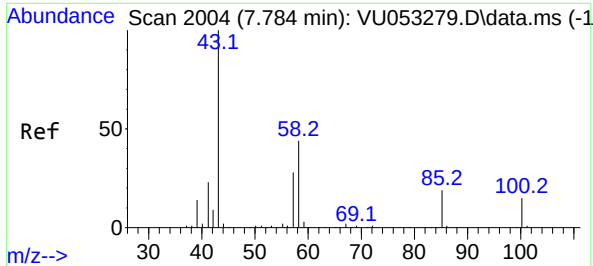


#34
Trichloroethene
Concen: 487.553 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.003 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Tgt Ion: 95 Resp: 727178

Ion	Ratio	Lower	Upper
95	100		
97	63.7	43.8	81.3
132	88.2	61.5	114.3
130	91.2	63.3	117.5

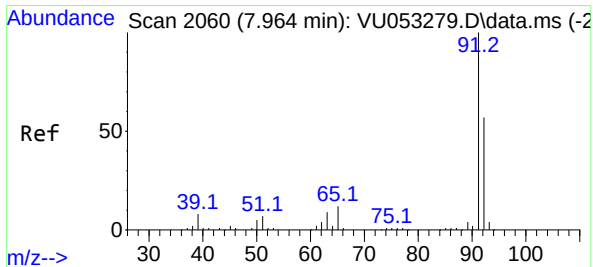
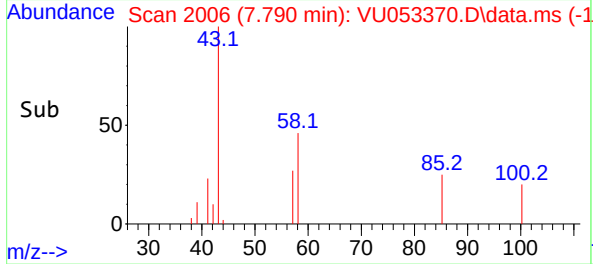
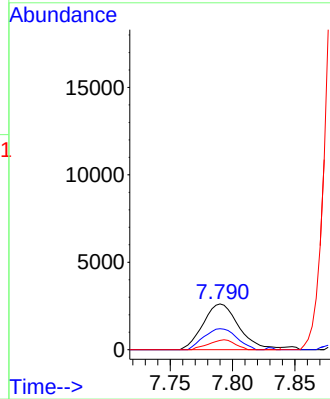
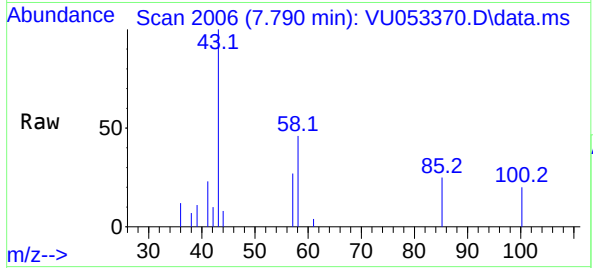




#40
4-Methyl-2-pentanone
Concen: 3.185 ug/L
RT: 7.790 min Scan# 2006
Delta R.T. 0.006 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

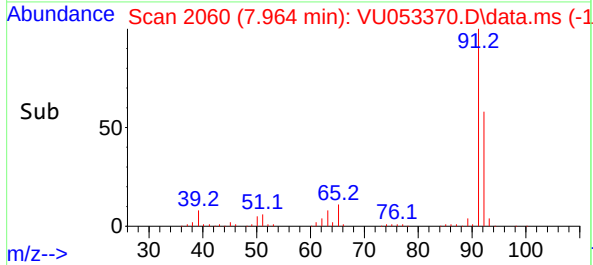
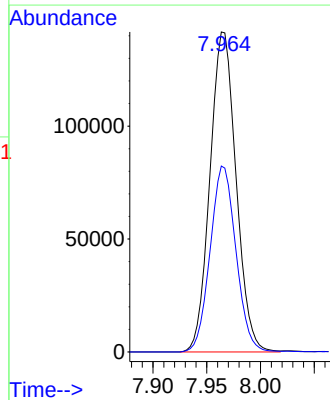
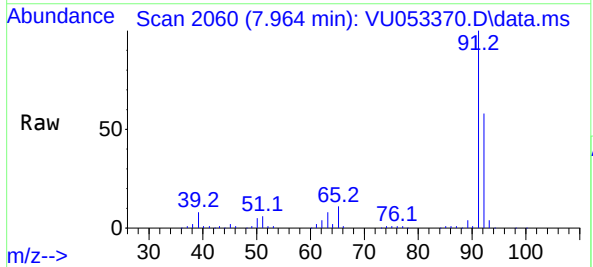
Instrument :
MSVOA_U
ClientSampleId :
E45E5

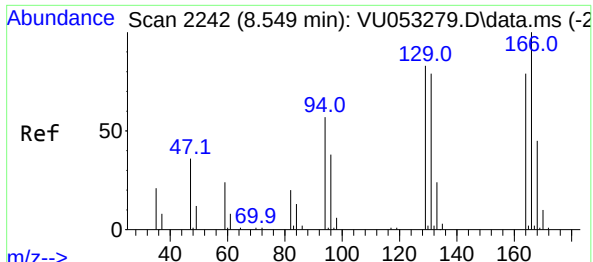
Tgt Ion:	43	Resp:	5224
Ion	Ratio	Lower	Upper
43	100		
58	41.9	35.8	53.6
100	15.9	13.0	19.6



#42
Toluene
Concen: 38.936 ug/L
RT: 7.964 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Tgt Ion:	91	Resp:	239443
Ion	Ratio	Lower	Upper
91	100		
92	58.1	39.6	73.6

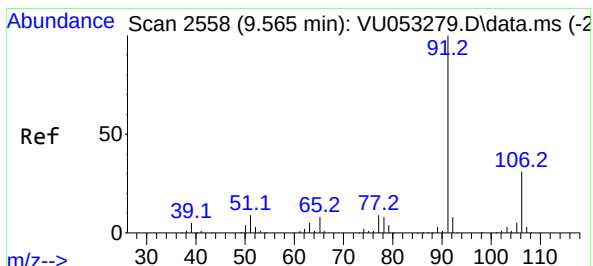
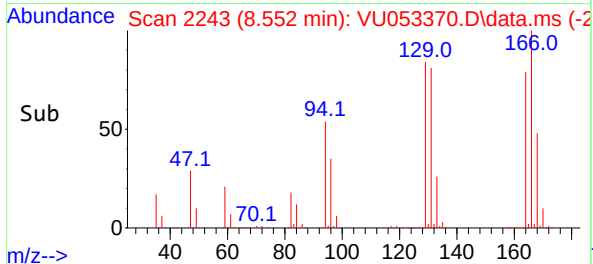
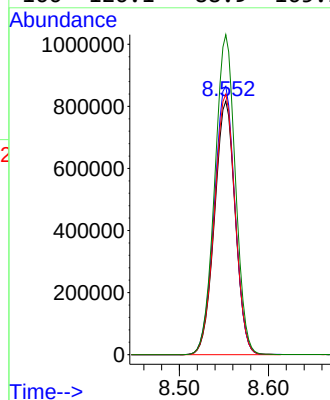
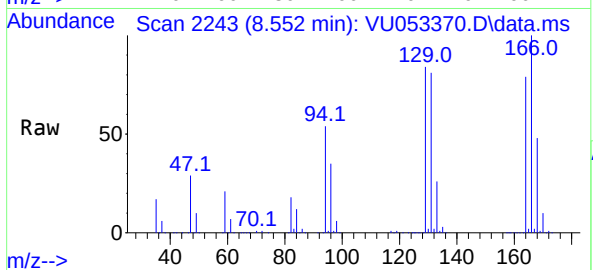




#46
Tetrachloroethene
Concen: 1356.594 ug/L
RT: 8.552 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

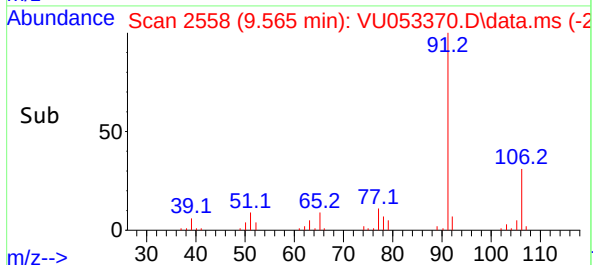
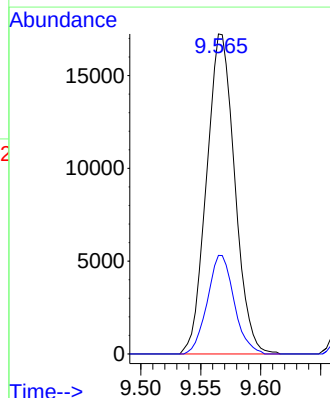
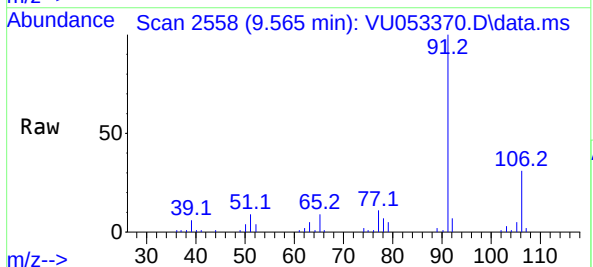
Instrument :
MSVOA_U
ClientSampleId :
E45E5

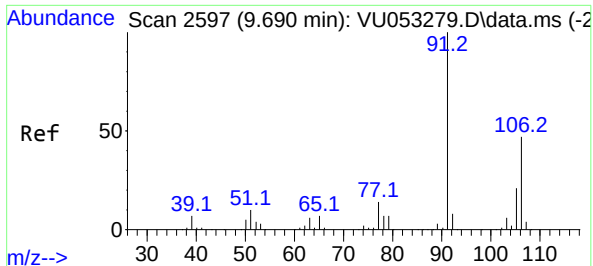
Tgt Ion:164 Resp: 1316371
Ion Ratio Lower Upper
164 100
129 105.8 73.6 136.8
131 102.7 70.3 130.7
166 126.1 88.9 165.1



#52
Ethylbenzene
Concen: 4.033 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Tgt Ion: 91 Resp: 28127
Ion Ratio Lower Upper
91 100
106 30.8 21.6 40.0

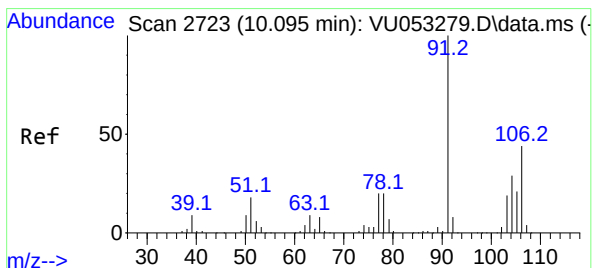
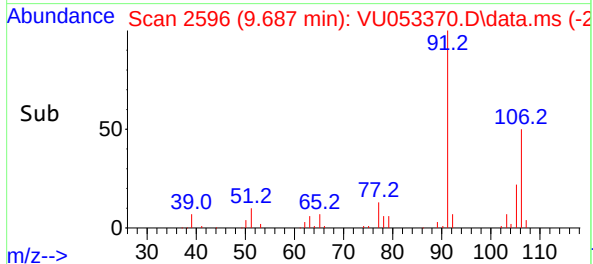
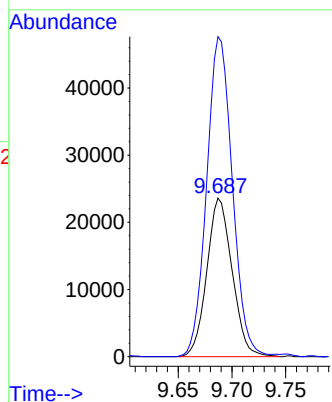
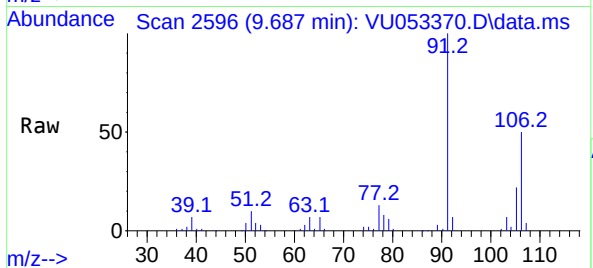




#53
m,p-Xylene
Concen: 14.847 ug/L
RT: 9.687 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

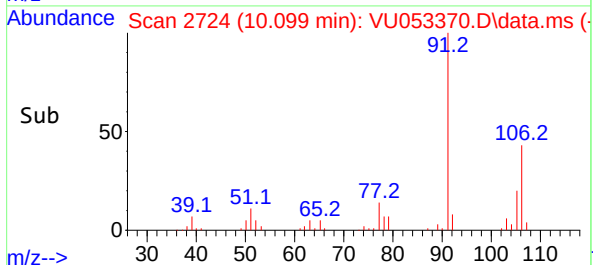
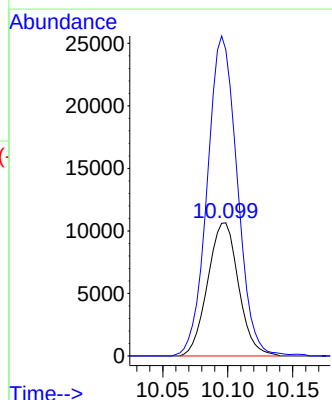
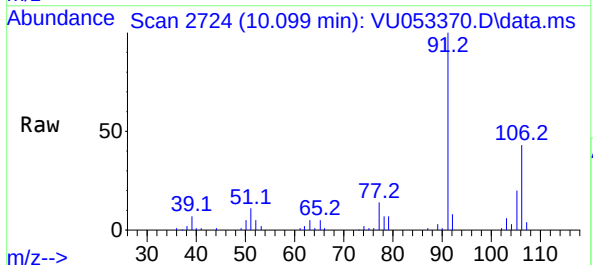
Instrument :
MSVOA_U
ClientSampleId :
E45E5

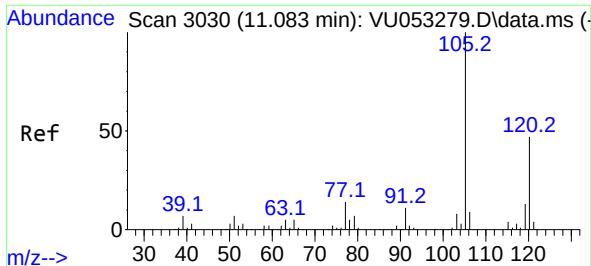
Tgt Ion:106 Resp: 38644
Ion Ratio Lower Upper
106 100
91 201.7 145.3 269.8



#54
o-Xylene
Concen: 6.834 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.003 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Tgt Ion:106 Resp: 17593
Ion Ratio Lower Upper
106 100
91 230.2 154.9 287.7

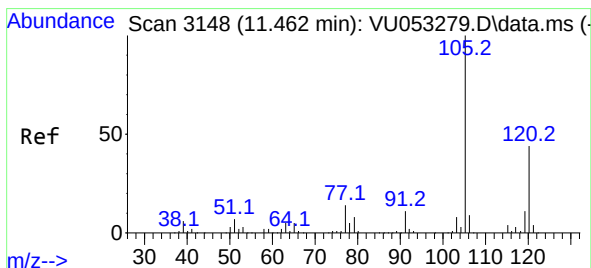
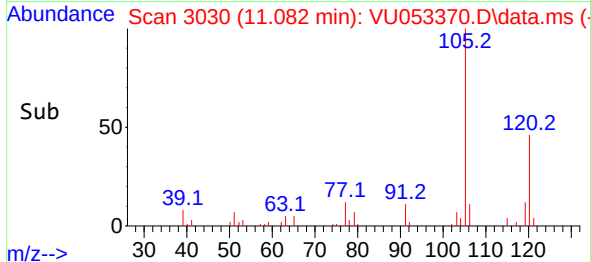
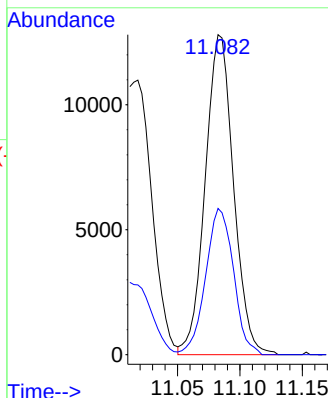
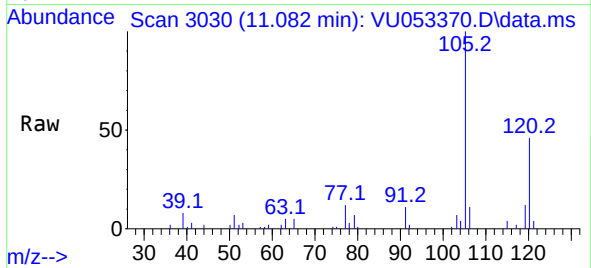




#62
1,3,5-Trimethylbenzene
Concen: 3.910 ug/L
RT: 11.082 min Scan# 3030
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

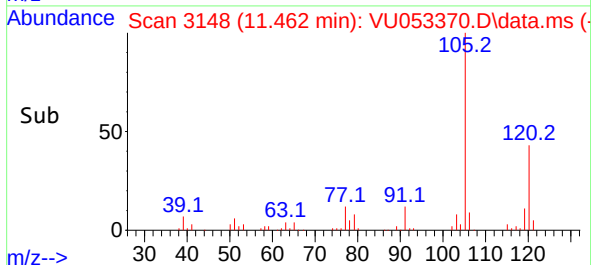
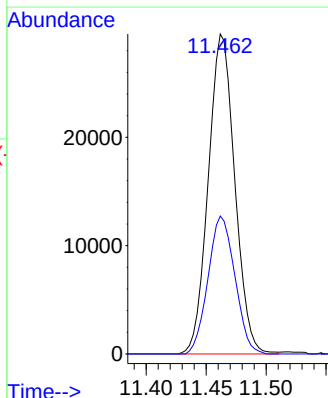
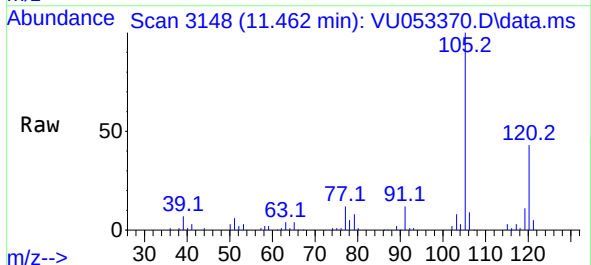
Instrument :
MSVOA_U
ClientSampleId :
E45E5

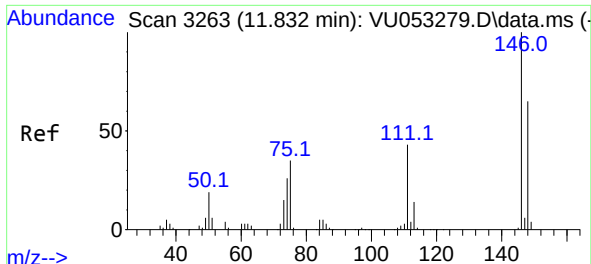
Tgt Ion:105 Resp: 20243
Ion Ratio Lower Upper
105 100
120 45.0 37.0 55.4



#63
1,2,4-Trimethylbenzene
Concen: 8.994 ug/L
RT: 11.462 min Scan# 3148
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Tgt Ion:105 Resp: 45389
Ion Ratio Lower Upper
105 100
120 43.6 34.6 52.0

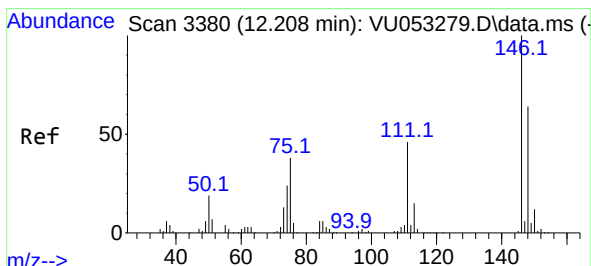
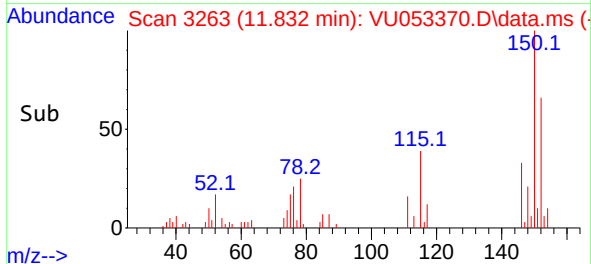
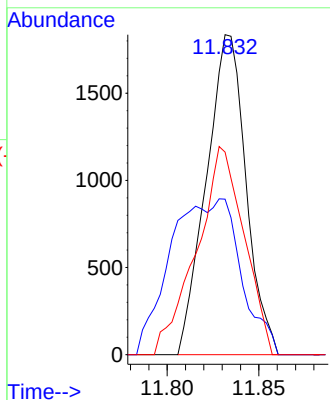
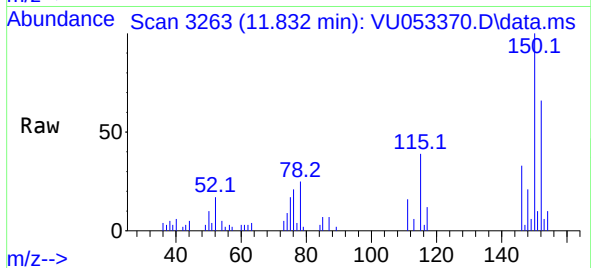




#65
1,4-Dichlorobenzene
Concen: 1.049 ug/L
RT: 11.832 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

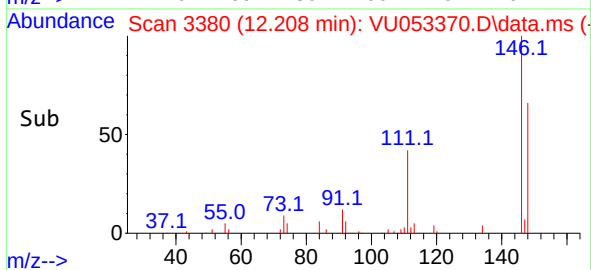
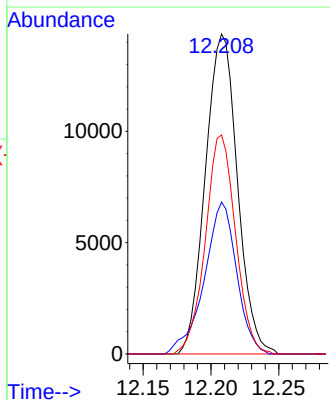
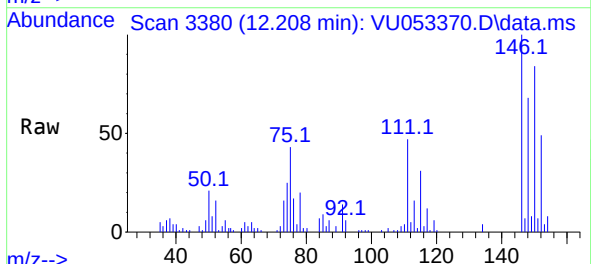
Instrument :
MSVOA_U
ClientSampleId :
E45E5

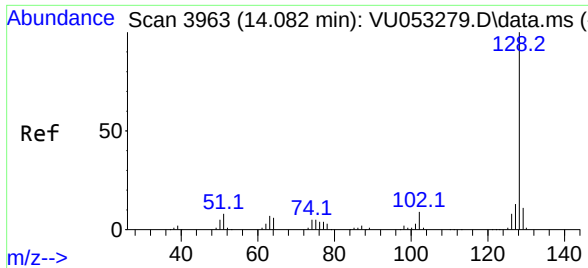
Tgt Ion:146 Resp: 2762
Ion Ratio Lower Upper
146 100
111 48.6 30.7 57.1
148 63.3 45.6 84.8



#67
1,2-Dichlorobenzene
Concen: 9.025 ug/L
RT: 12.208 min Scan# 3380
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

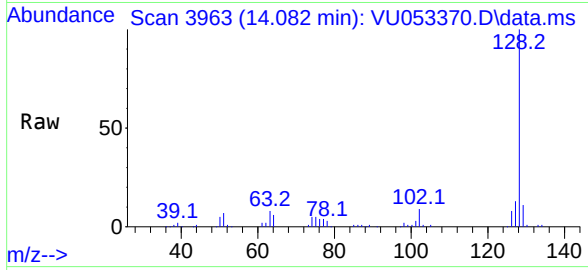
Tgt Ion:146 Resp: 23662
Ion Ratio Lower Upper
146 100
111 47.4 37.0 55.4
148 68.5 51.4 77.2





#71
Naphthalene
Concen: 16.399 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. -0.000 min
Lab File: VU053370.D
Acq: 23 Mar 2023 14:38

Instrument :
MSVOA_U
ClientSampleId :
E45E5



Tgt Ion:128 Resp: 82600
Ion Ratio Lower Upper
128 100
127 12.6 10.0 15.0
129 10.2 8.6 13.0

