

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U032323\
 Data File : U053377.D
 Acq On : 23 Mar 2023 18:29
 Operator : JC/MD
 Sample : 02037-01DL 200X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E45E4DL

Quant Time: Mar 24 12:21:43 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	6.243	114	113988	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	105587	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	49069	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	35607	33.860	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	67.720%
7) Chloroethane-d5	1.912	69	33079	38.888	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.780%
11) 1,1-Dichloroethene-d2	2.565	63	47548	26.101	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	52.200%#
21) 2-Butanone-d5	4.620	46	63027	129.223	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	129.220%
24) Chloroform-d	5.060	84	67846	39.171	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.340%
26) 1,2-Dichloroethane-d4	5.697	65	46340	43.080	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.160%
32) Benzene-d6	5.722	84	141222	41.236	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.480%
36) 1,2-Dichloropropane-d6	6.687	67	49825	45.077	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.160%
41) Toluene-d8	7.893	98	122305	38.358	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	76.720%#
43) trans-1,3-Dichloroprop...	8.176	79	22065	40.460	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.920%
47) 2-Hexanone-d5	8.629	63	39142	113.270	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.270%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	71511	49.943	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.880%
66) 1,2-Dichlorobenzene-d4	12.188	152	43134	45.399	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.800%
Target Compounds						
					Qvalue	
13) Acetone	2.633	43	9063	16.315	ug/L	95
17) trans-1,2-Dichloroethene	3.353	96	1003	1.181	ug/L	74
19) 1,1-Dichloroethane	3.864	63	128427	74.072	ug/L	99
20) cis-1,2-Dichloroethene	4.661	96	89799	90.012	ug/L	94
22) 2-Butanone	4.710	43	2032	3.211	ug/L	72
30) 1,1,1-Trichloroethane	5.314	97	59230	41.154	ug/L	98
31) Carbon tetrachloride	5.314	117	7663	6.499	ug/L	98
37) 1,2-Dichloropropane	6.690	63	5092	4.986	ug/L #	90
40) 4-Methyl-2-pentanone	7.787	43	3824	3.643	ug/L #	94
42) Toluene	7.967	91	82594	20.987	ug/L	98
46) Tetrachloroethene	8.549	164	1116	1.797	ug/L	90
48) 2-Hexanone	8.632	43	4821	5.484	ug/L #	74
49) Dibromochloromethane	8.545	129	1124	1.182	ug/L #	12
52) Ethylbenzene	9.565	91	12020	2.693	ug/L	97
53) m,p-Xylene	9.687	106	25056	15.042	ug/L	99
54) o-Xylene	10.095	106	14252	8.651	ug/L	93
61) Isopropylbenzene	11.288	105	10168	2.623	ug/L	95
62) 1,3,5-Trimethylbenzene	11.082	105	10224	3.186	ug/L	91
63) 1,2,4-Trimethylbenzene	11.465	105	24444	7.814	ug/L	98

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QLast Update : Thu Mar 23 02:41:20 2023
Response via : Initial Calibration

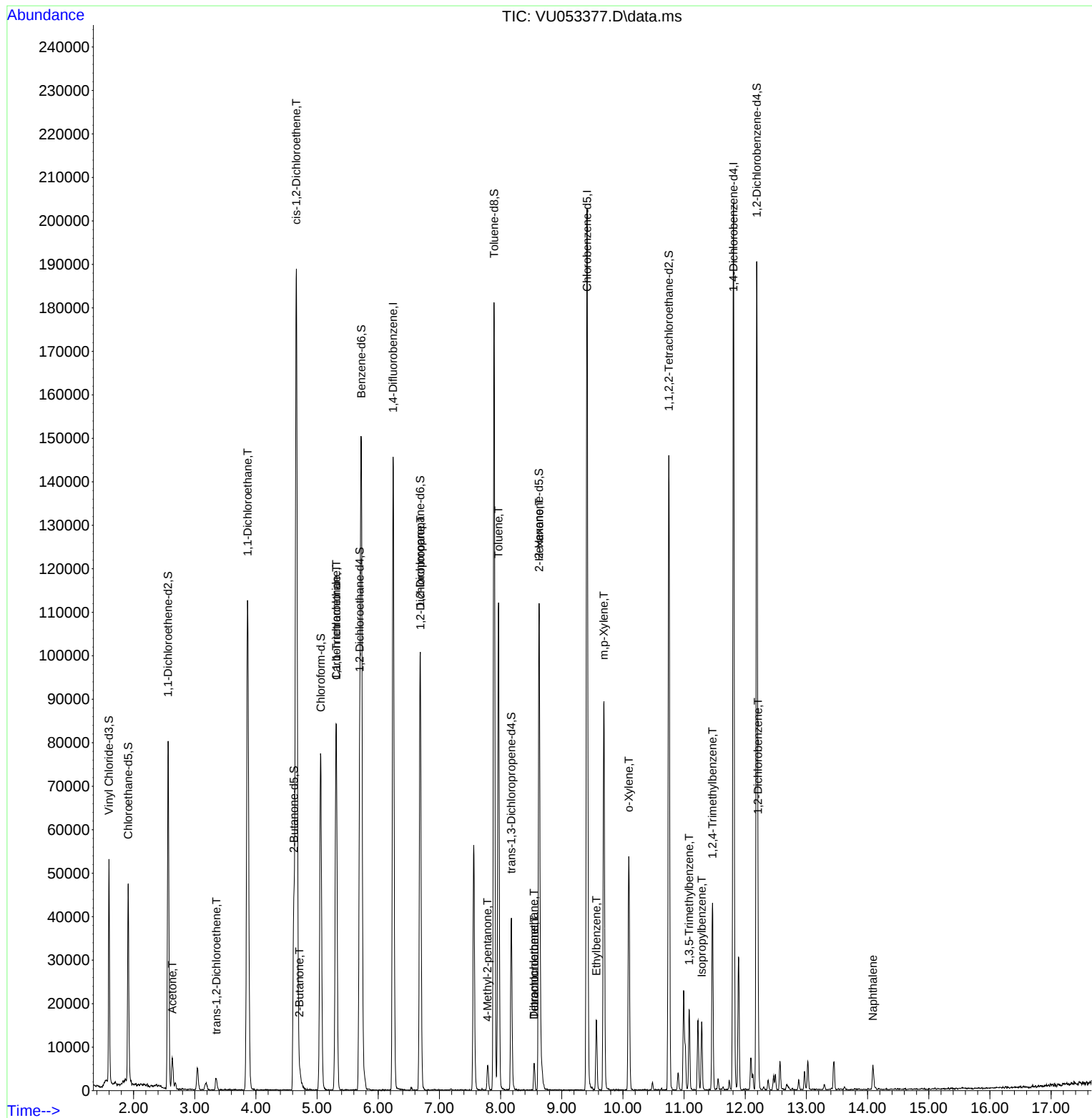
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.208	146	5368	3.303	ug/L	95
71) Naphthalene	14.089	128	5882	1.884	ug/L	98

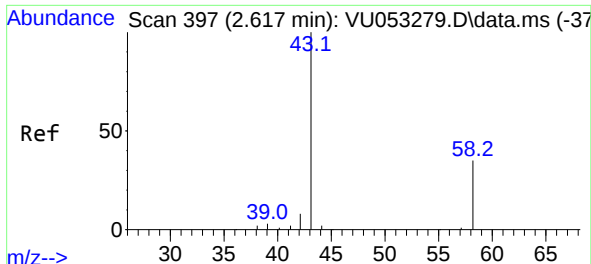
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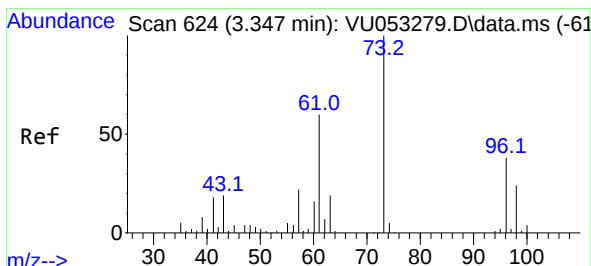
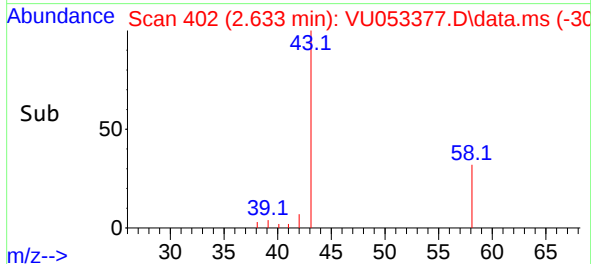
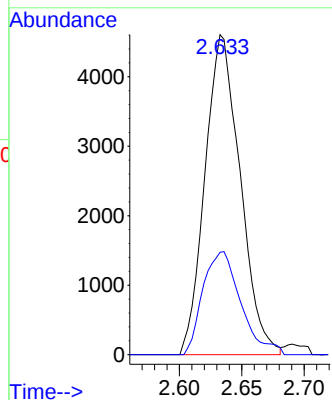
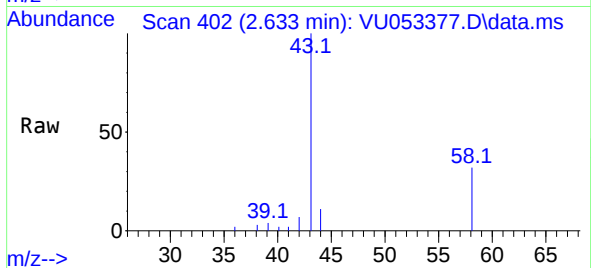




#13
Acetone
Concen: 16.315 ug/L
RT: 2.633 min Scan# 40
Delta R.T. -0.000 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

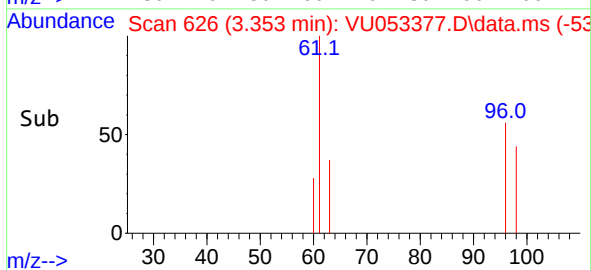
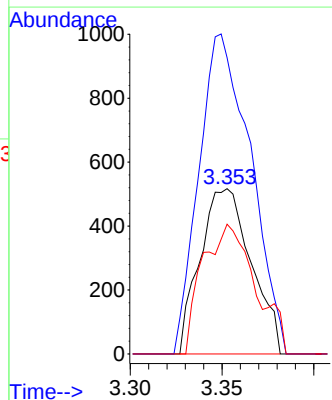
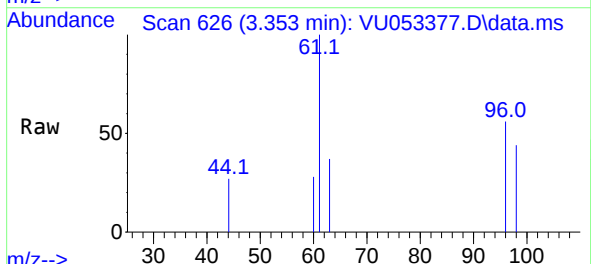
Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

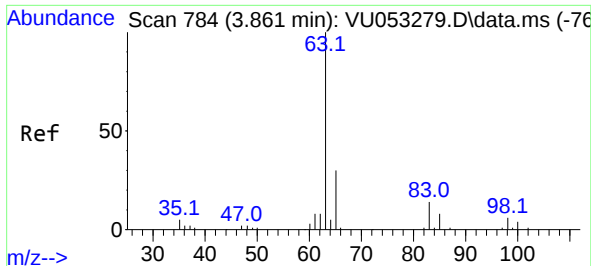
Tgt Ion: 43 Resp: 9063
Ion Ratio Lower Upper
43 100
58 34.6 0.0 75.0



#17
trans-1,2-Dichloroethene
Concen: 1.181 ug/L
RT: 3.353 min Scan# 626
Delta R.T. 0.003 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion: 96 Resp: 1003
Ion Ratio Lower Upper
96 100
61 179.3 99.6 185.0
98 78.5 45.5 84.5

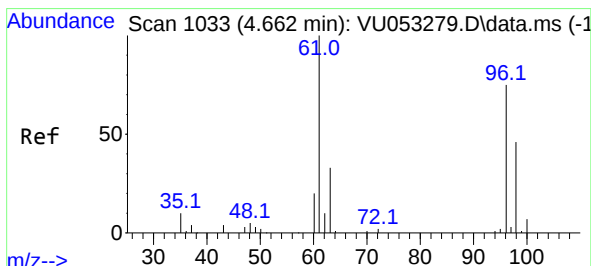
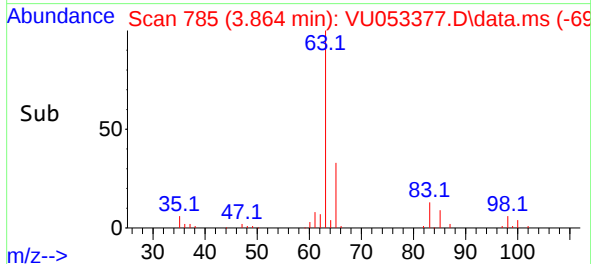
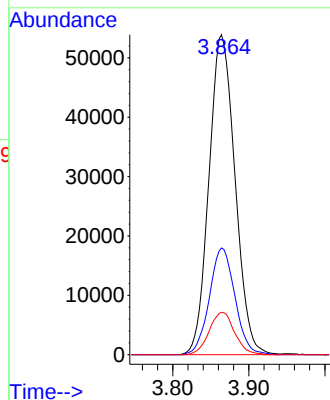
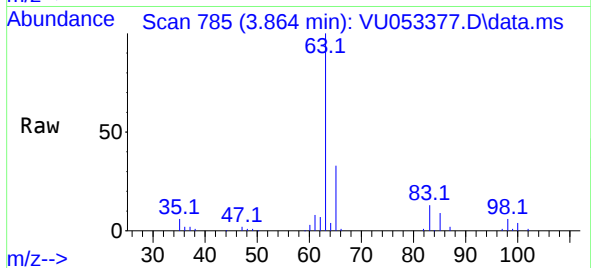




#19
1,1-Dichloroethane
Concen: 74.072 ug/L
RT: 3.864 min Scan# 784
Delta R.T. -0.000 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

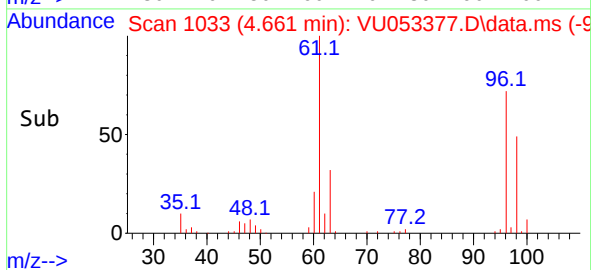
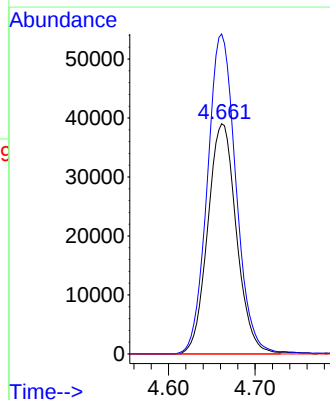
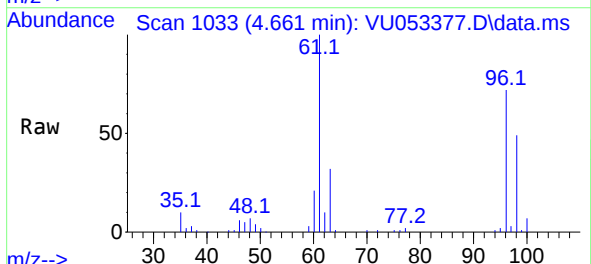
Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

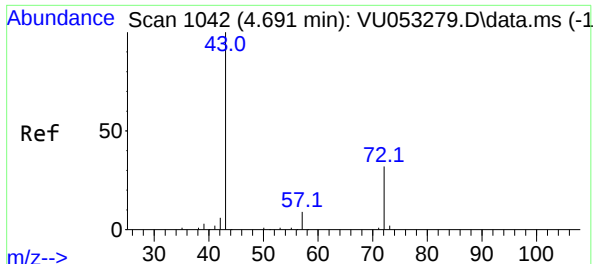
Tgt Ion: 63 Resp: 128427
Ion Ratio Lower Upper
63 100
65 33.3 22.8 42.4
83 13.3 9.4 17.6



#20
cis-1,2-Dichloroethene
Concen: 90.012 ug/L
RT: 4.661 min Scan# 1033
Delta R.T. -0.000 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion: 96 Resp: 89799
Ion Ratio Lower Upper
96 100
61 139.0 92.5 171.7
68 0.0 0.0 0.0

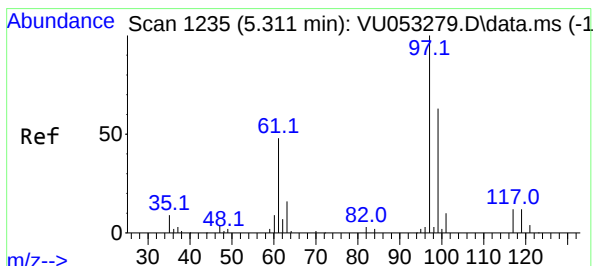
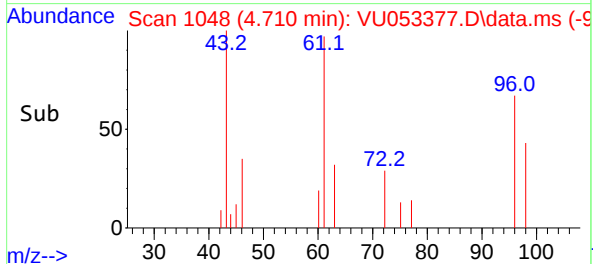
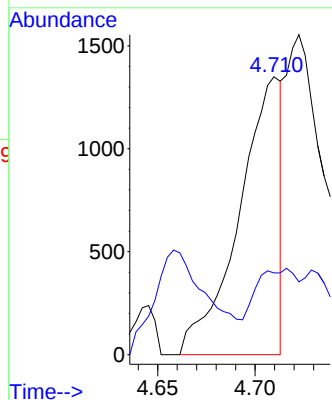
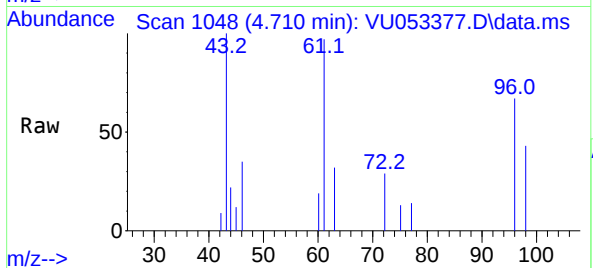




#22
2-Butanone
Concen: 3.211 ug/L
RT: 4.710 min Scan# 1048
Delta R.T. 0.009 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

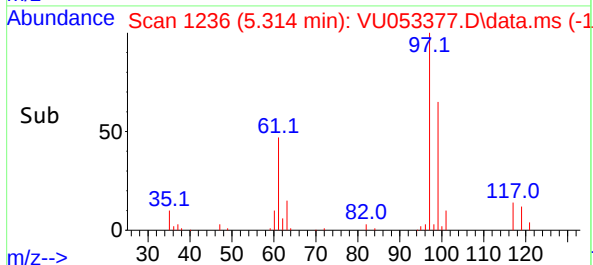
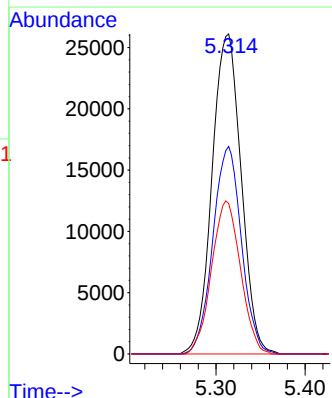
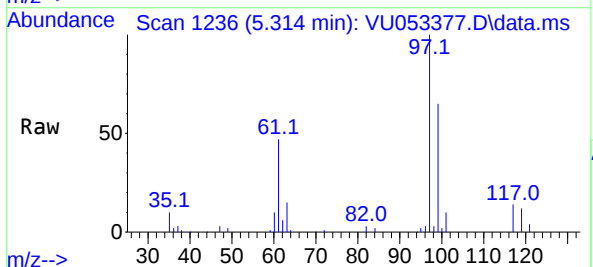
Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

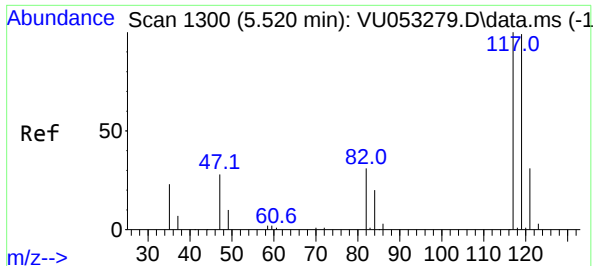
Tgt Ion: 43 Resp: 2032
Ion Ratio Lower Upper
43 100
72 16.6 16.0 47.9



#30
1,1,1-Trichloroethane
Concen: 41.154 ug/L
RT: 5.314 min Scan# 1236
Delta R.T. 0.003 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion: 97 Resp: 59230
Ion Ratio Lower Upper
97 100
99 63.7 50.6 76.0
61 47.7 36.0 54.0

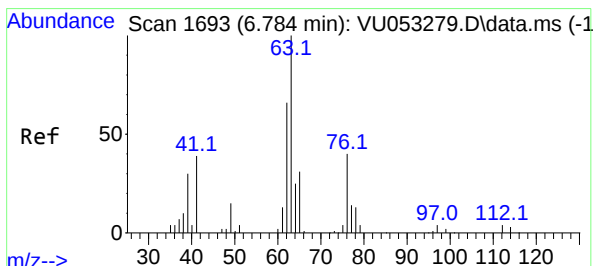
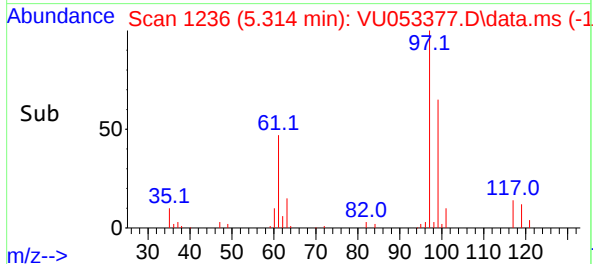
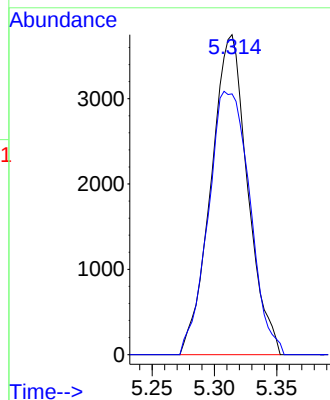
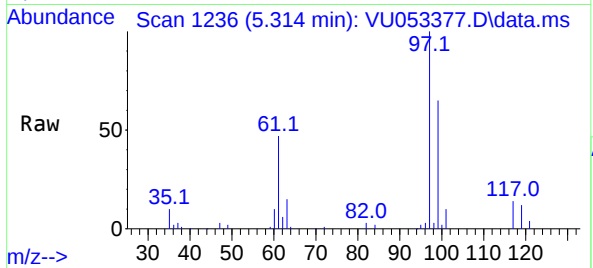




#31
Carbon tetrachloride
Concen: 6.499 ug/L
RT: 5.314 min Scan# 11
Delta R.T. -0.206 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

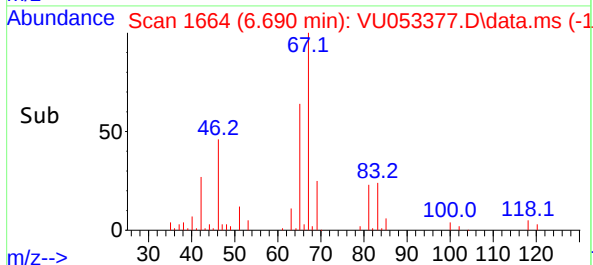
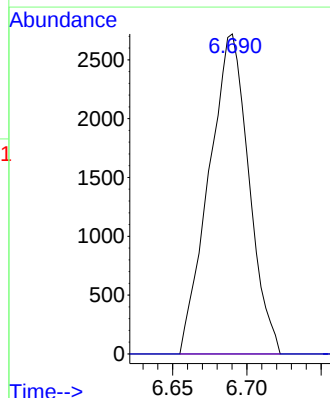
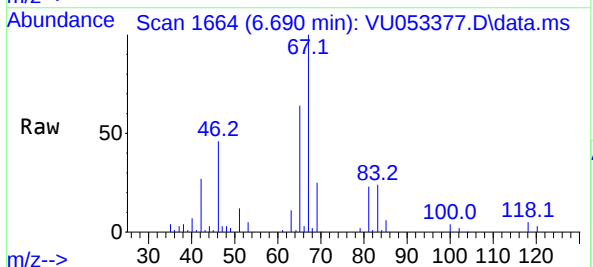
Instrument :
MSVOA_U
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E45E4DL

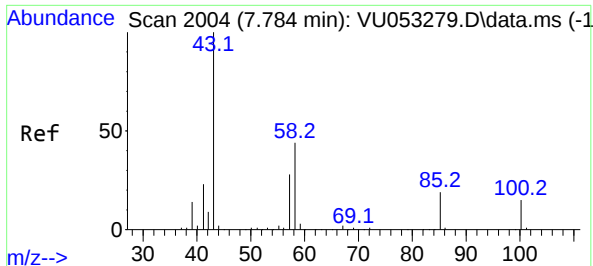
Tgt Ion:117 Resp: 7663
Ion Ratio Lower Upper
117 100
119 93.1 76.2 114.2



#37
1,2-Dichloropropane
Concen: 4.986 ug/L
RT: 6.690 min Scan# 1664
Delta R.T. -0.093 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion: 63 Resp: 5092
Ion Ratio Lower Upper
63 100
112 0.0 2.6 3.8#





#40

4-Methyl-2-pentanone

Concen: 3.643 ug/L

RT: 7.787 min Scan# 2005

Delta R.T. 0.003 min

Lab File: VU053377.D

Acq: 23 Mar 2023 18:29

Instrument :

MSVOA_U

ClientSampleId :

E45E4DL

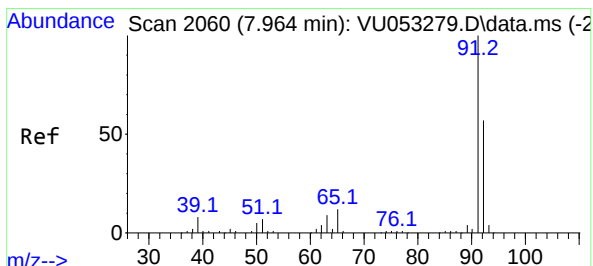
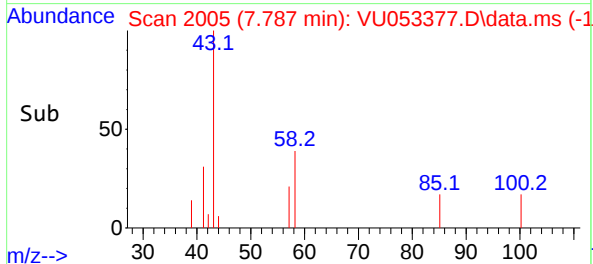
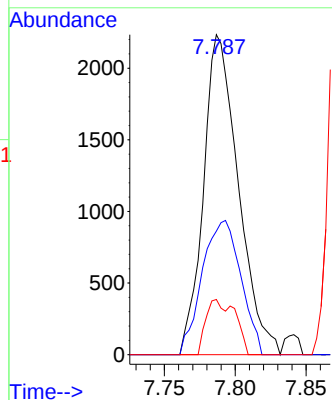
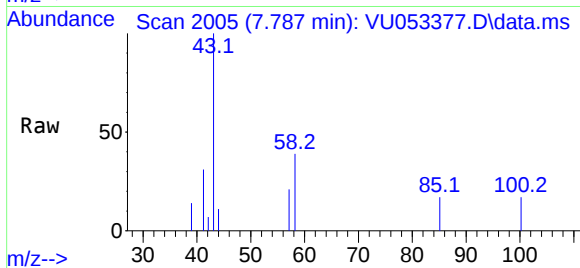
Tgt Ion: 43 Resp: 3824

Ion Ratio Lower Upper

43 100

58 46.4 35.8 53.6

100 9.3 13.0 19.6#



#42

Toluene

Concen: 20.987 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.003 min

Lab File: VU053377.D

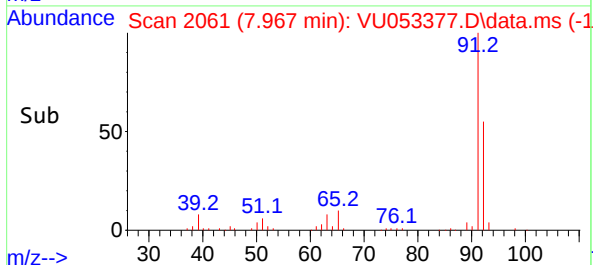
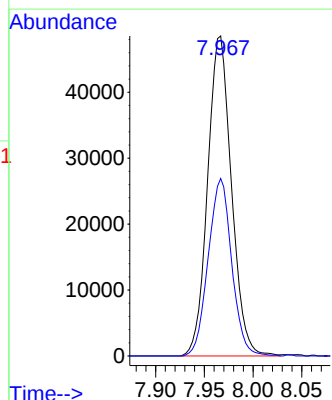
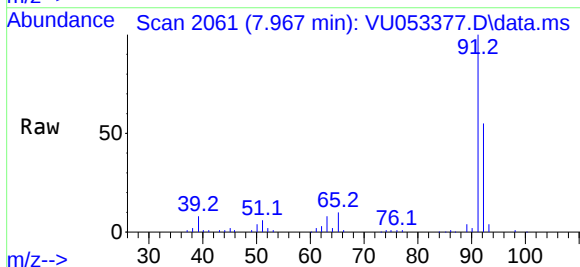
Acq: 23 Mar 2023 18:29

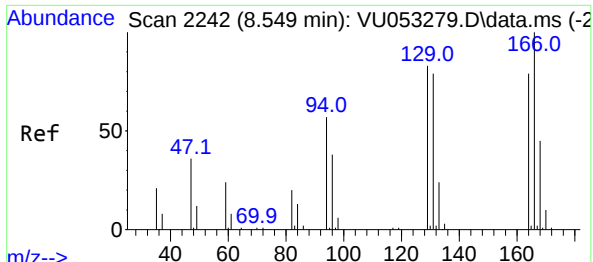
Tgt Ion: 91 Resp: 82594

Ion Ratio Lower Upper

91 100

92 55.5 39.6 73.6



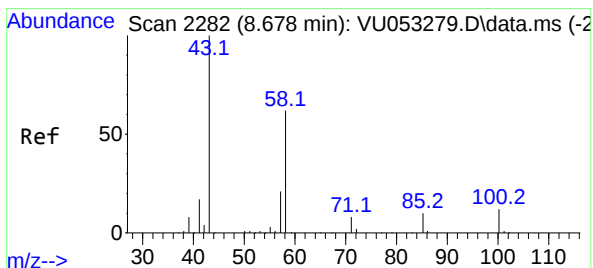
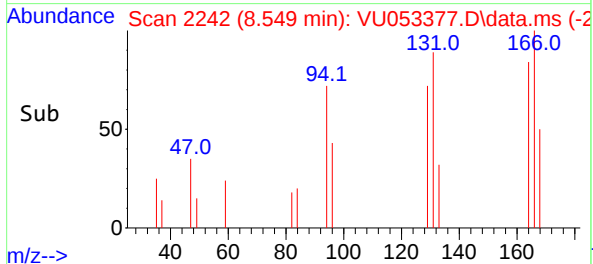
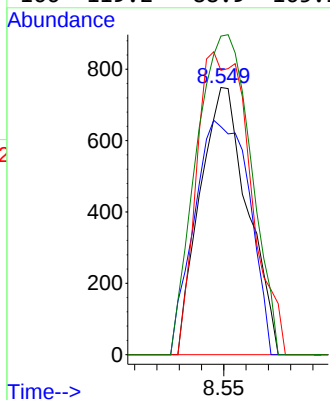
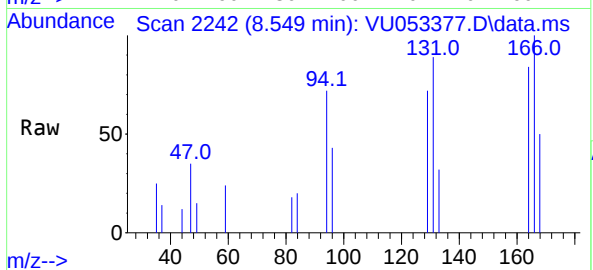


#46
Tetrachloroethene
Concen: 1.797 ug/L
RT: 8.549 min Scan# 2116
Delta R.T. -0.000 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

Tgt Ion:164 Resp: 1116

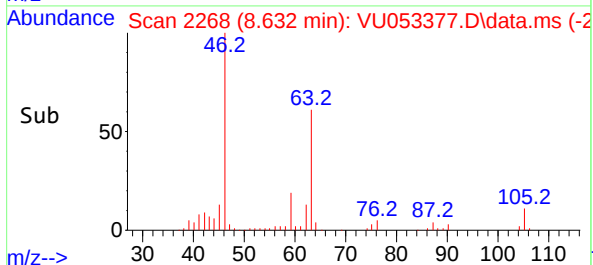
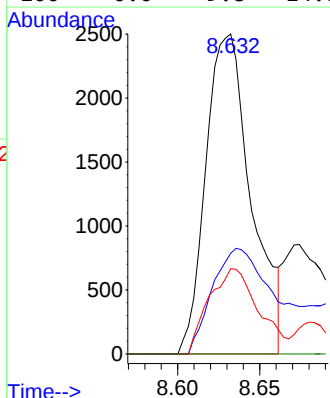
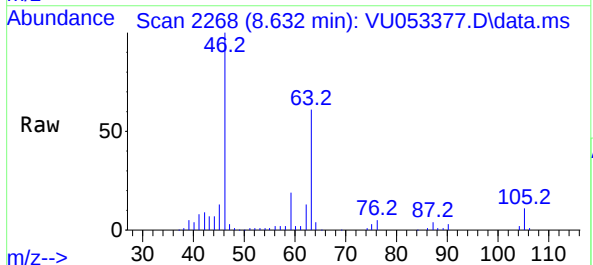
Ion	Ratio	Lower	Upper
164	100		
129	85.3	73.6	136.8
131	106.4	70.3	130.7
166	119.2	88.9	165.1

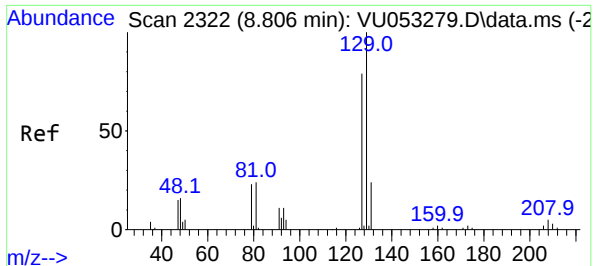


#48
2-Hexanone
Concen: 5.484 ug/L
RT: 8.632 min Scan# 2268
Delta R.T. -0.048 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion: 43 Resp: 4821

Ion	Ratio	Lower	Upper
43	100		
58	39.9	49.4	74.0#
57	29.4	16.9	25.3#
100	0.0	9.8	14.8#





#49

Dibromochloromethane

Concen: 1.182 ug/L

RT: 8.545 min Scan# 21

Delta R.T. -0.261 min

Lab File: VU053377.D

Acq: 23 Mar 2023 18:29

Instrument :

MSVOA_U

ClientSampleId :

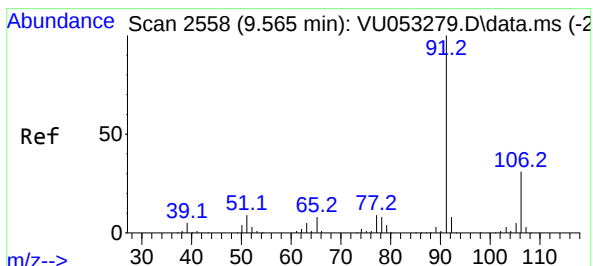
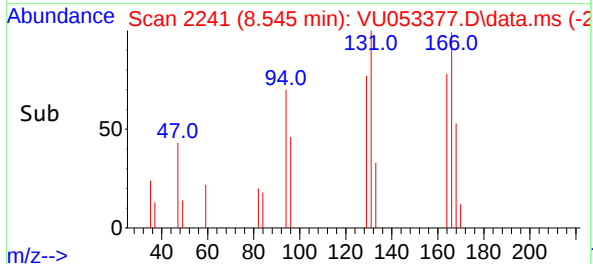
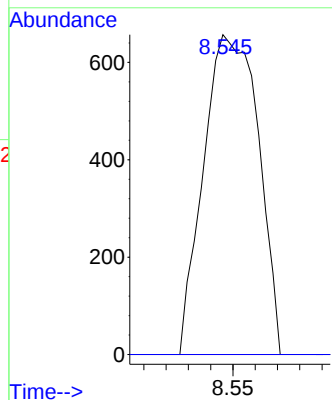
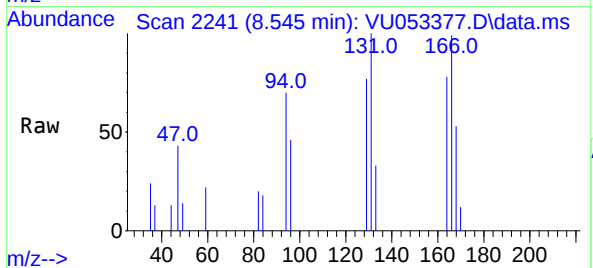
E45E4DL

Tgt Ion:129 Resp: 1124

Ion Ratio Lower Upper

129 100

127 0.0 53.1 98.5#



#52

Ethylbenzene

Concen: 2.693 ug/L

RT: 9.565 min Scan# 2558

Delta R.T. -0.000 min

Lab File: VU053377.D

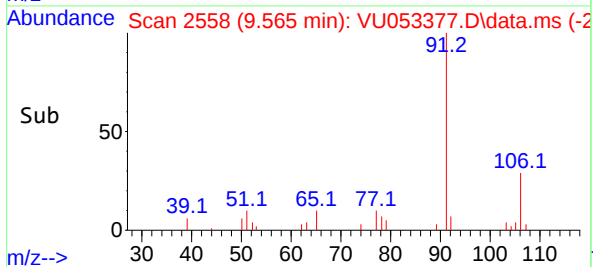
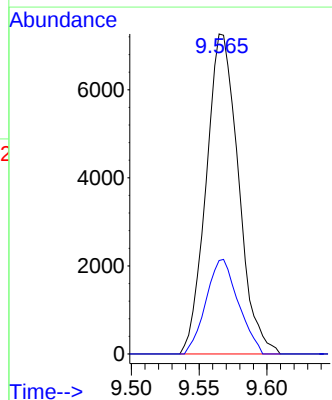
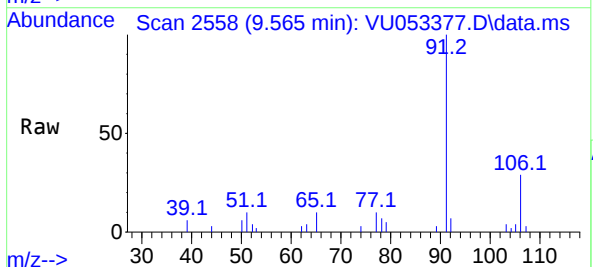
Acq: 23 Mar 2023 18:29

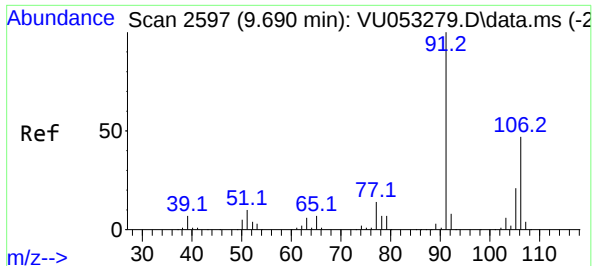
Tgt Ion: 91 Resp: 12020

Ion Ratio Lower Upper

91 100

106 29.2 21.6 40.0

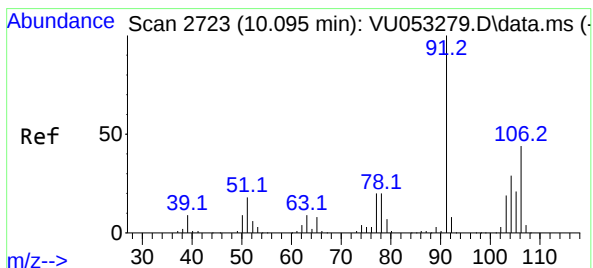
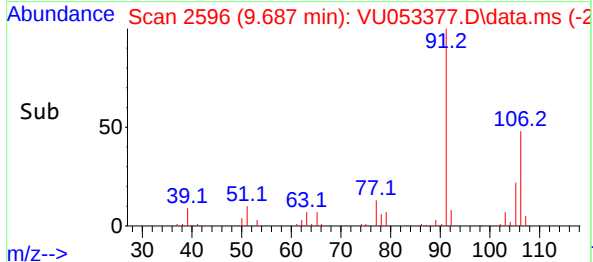
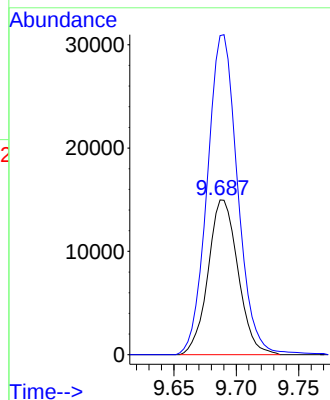
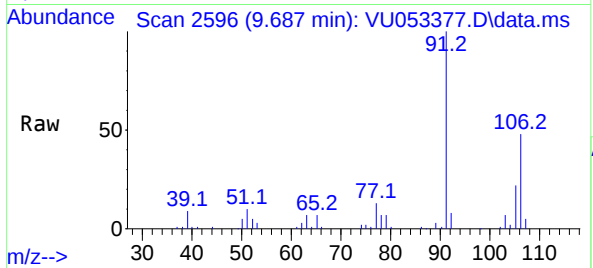




#53
m,p-Xylene
Concen: 15.042 ug/L
RT: 9.687 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

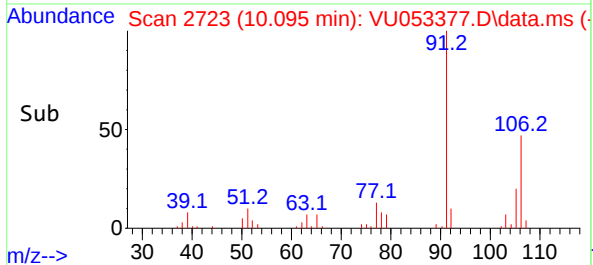
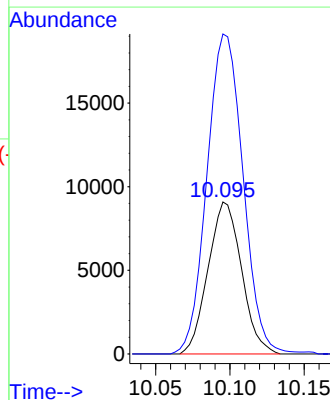
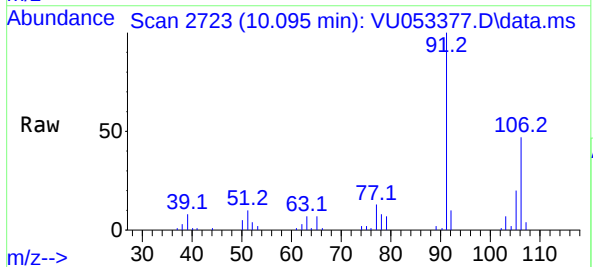
Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

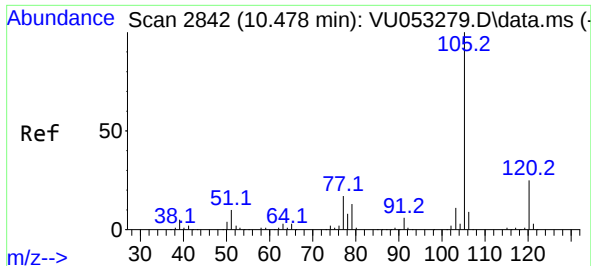
Tgt Ion:106 Resp: 25056
Ion Ratio Lower Upper
106 100
91 206.3 145.3 269.8



#54
o-Xylene
Concen: 8.651 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion:106 Resp: 14252
Ion Ratio Lower Upper
106 100
91 210.6 154.9 287.7

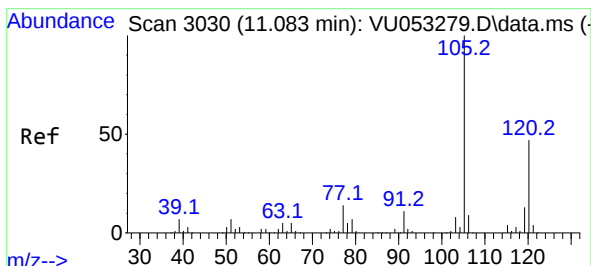
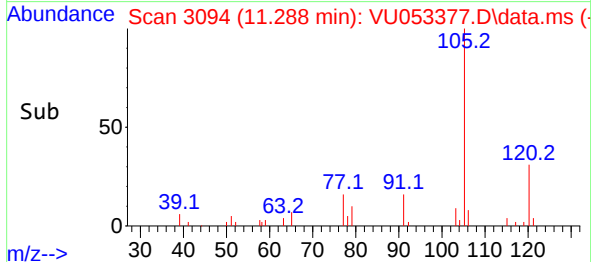
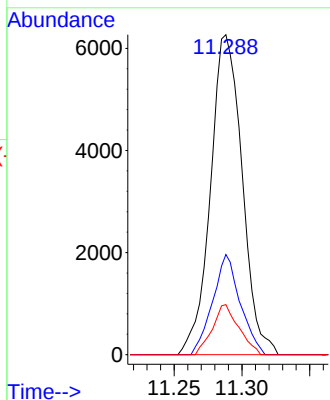
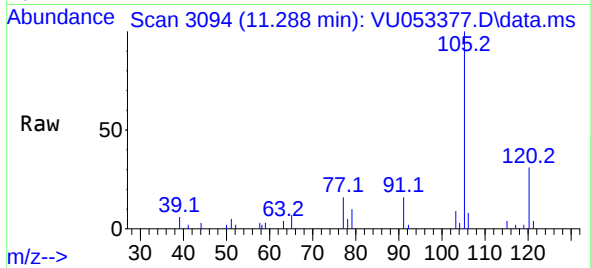




#61
Isopropylbenzene
Concen: 2.623 ug/L
RT: 11.288 min Scan# 3094
Delta R.T. 0.810 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

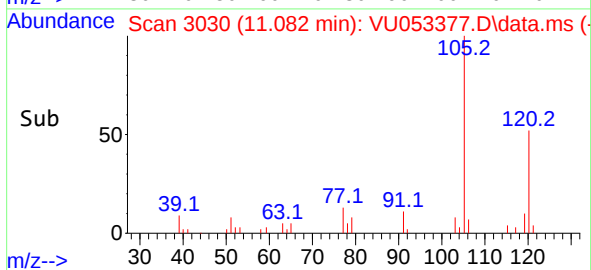
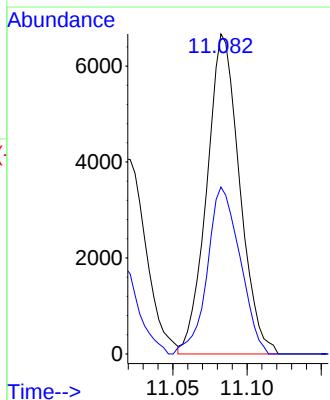
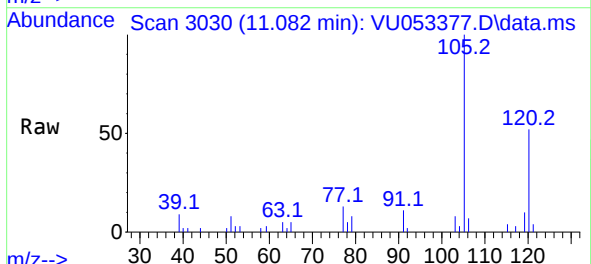
Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

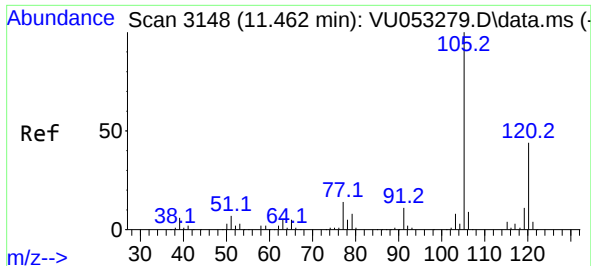
Tgt Ion:105 Resp: 10168
Ion Ratio Lower Upper
105 100
120 27.2 20.4 30.6
77 13.1 13.0 19.4



#62
1,3,5-Trimethylbenzene
Concen: 3.186 ug/L
RT: 11.082 min Scan# 3030
Delta R.T. -0.000 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion:105 Resp: 10224
Ion Ratio Lower Upper
105 100
120 52.1 37.0 55.4

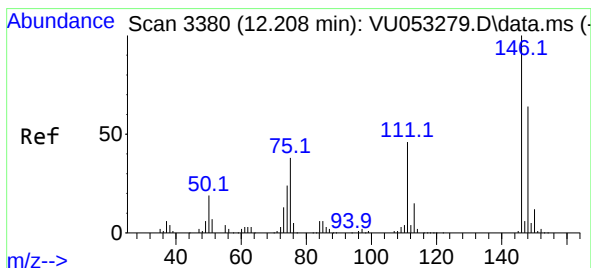
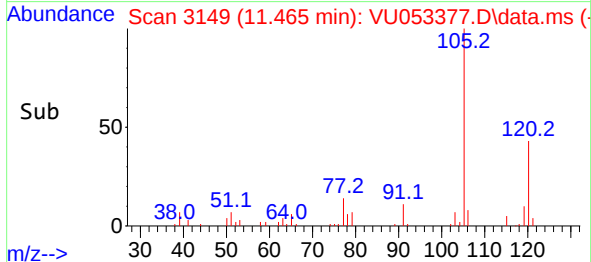
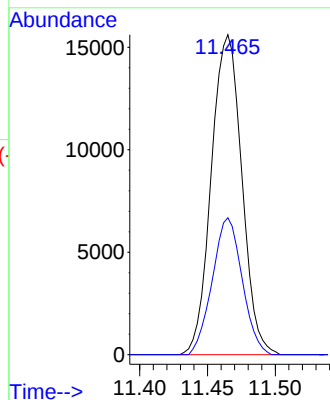
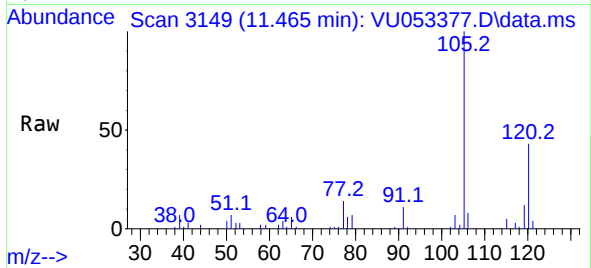




#63
1,2,4-Trimethylbenzene
Concen: 7.814 ug/L
RT: 11.465 min Scan# 3148
Delta R.T. 0.003 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

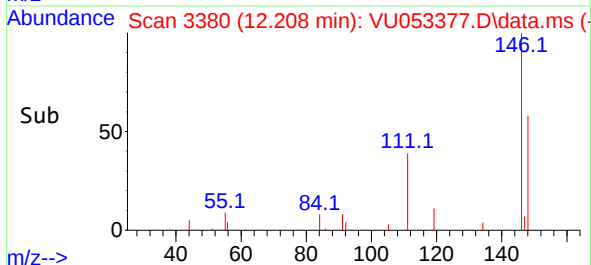
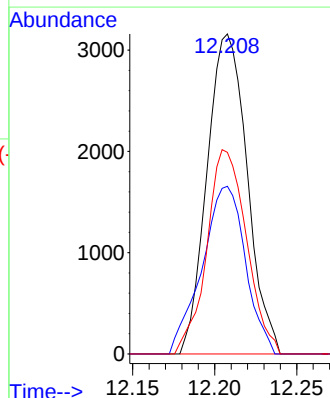
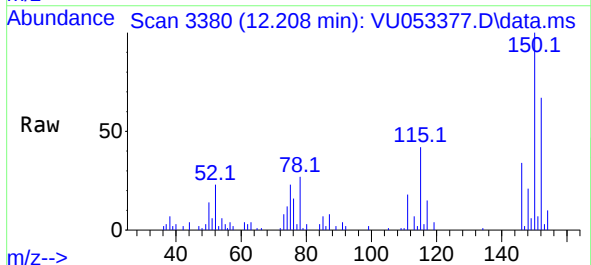
Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

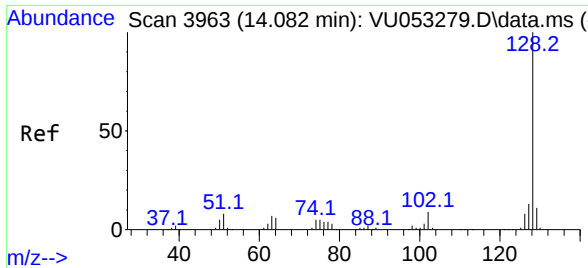
Tgt Ion:105 Resp: 24444
Ion Ratio Lower Upper
105 100
120 41.9 34.6 52.0



#67
1,2-Dichlorobenzene
Concen: 3.303 ug/L
RT: 12.208 min Scan# 3380
Delta R.T. -0.000 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Tgt Ion:146 Resp: 5368
Ion Ratio Lower Upper
146 100
111 52.4 37.0 55.4
148 63.0 51.4 77.2





#71
Naphthalene
Concen: 1.884 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.006 min
Lab File: VU053377.D
Acq: 23 Mar 2023 18:29

Instrument :
MSVOA_U
ClientSampleId :
E45E4DL

Tgt Ion:	128	Resp:	5882
Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.0	15.0
129	10.6	8.6	13.0

