

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU061022\
 Data File : VU049042.D
 Acq On : 11 Jun 2022 09:30
 Operator : SY/MD
 Sample : N3249-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXYZ2

Quant Time: Jun 11 10:46:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM061022WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 11 04:33:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.246	114	235676	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	227039	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	113712	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	73701	50.763	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.520%
7) Chloroethane-d5	1.903	69	54725	51.336	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.680%
11) 1,1-Dichloroethene-d2	2.565	63	117934	43.048	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.100%
21) 2-Butanone-d5	4.620	46	163006	102.402	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.400%
24) Chloroform-d	5.063	84	160507	51.823	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.640%
26) 1,2-Dichloroethane-d4	5.700	65	110569	55.103	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.200%
32) Benzene-d6	5.726	84	300801	53.430	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.860%
36) 1,2-Dichloropropane-d6	6.690	67	105273	55.624	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	111.240%
41) Toluene-d8	7.896	98	268496	54.077	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.160%
43) trans-1,3-Dichloroprop...	8.179	79	39893	44.805	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.600%
47) 2-Hexanone-d5	8.632	63	93276	94.167	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.170%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	166721	52.742	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.480%
66) 1,2-Dichlorobenzene-d4	12.192	152	113206	57.217	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.440%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	99078	47.676	ug/L	97
8) Chloroethane	1.925	64	179302	154.476	ug/L	96
9) Trichlorofluoromethane	2.137	101	2700	0.923	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	897	0.540	ug/L #	19
12) 1,1-Dichloroethene	2.578	96	30742	21.153	ug/L #	61
13) Acetone	2.626	43	4751	3.793	ug/L	86
17) trans-1,2-Dichloroethene	3.353	96	15670	9.806	ug/L	92
19) 1,1-Dichloroethane	3.867	63	1253840	364.217	ug/L	100
20) cis-1,2-Dichloroethene	4.665	96	2077791	1068.758	ug/L	100
27) 1,2-Dichloroethane	5.796	62	11454	3.922	ug/L	99
30) 1,1,1-Trichloroethane	5.317	97	1551024	489.863	ug/L	99
31) Carbon tetrachloride	5.317	117	191217	69.053	ug/L	98
33) Benzene	5.774	78	8322	1.131	ug/L	100
34) Trichloroethene	6.542	95	17109	9.228	ug/L	97
35) Methylcyclohexane	6.764	83	3306	1.277	ug/L	96
39) cis-1,3-Dichloropropene	7.565	75	2442	0.800	ug/L #	76
40) 4-Methyl-2-pentanone	7.790	43	6764	1.936	ug/L	95
42) Toluene	7.970	91	49894	6.563	ug/L	100
45) 1,1,2-Trichloroethane	8.398	97	1605	0.799	ug/L	91

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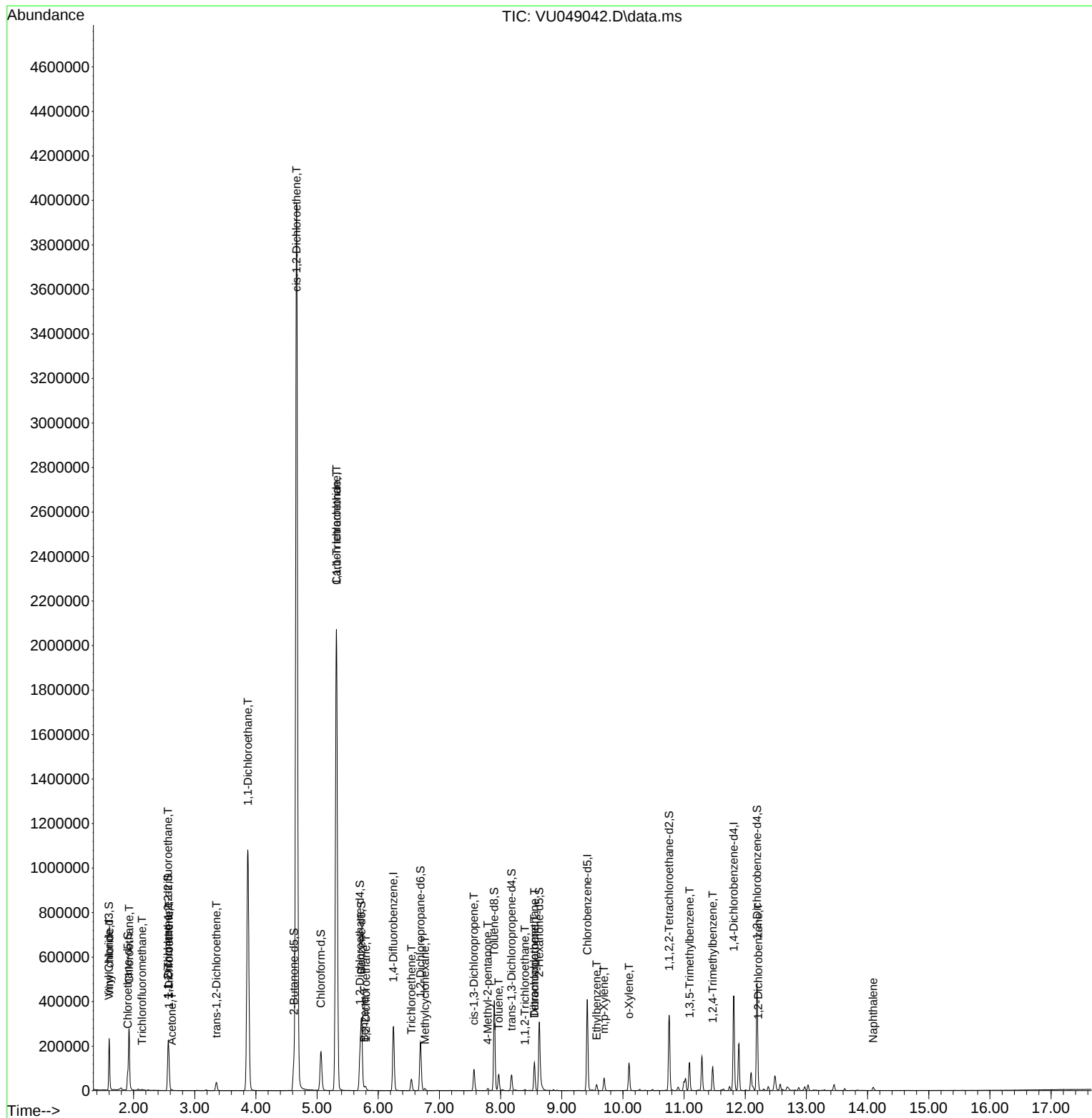
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	8.552	164	27204	18.925	ug/L	97
49) Dibromochloromethane	8.552	129	26858	12.002	ug/L #	11
52) Ethylbenzene	9.571	91	18947	2.292	ug/L	97
53) m,p-Xylene	9.693	106	15327	4.722	ug/L	90
54) o-Xylene	10.098	106	34666	10.600	ug/L	95
62) 1,3,5-Trimethylbenzene	11.089	105	68302	10.358	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	57117	10.879	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	3327	0.846	ug/L #	80
71) Naphthalene	14.092	128	14276	1.763	ug/L	99

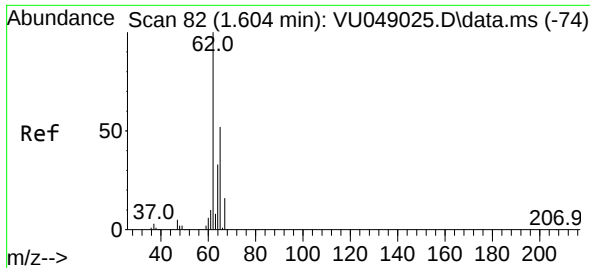
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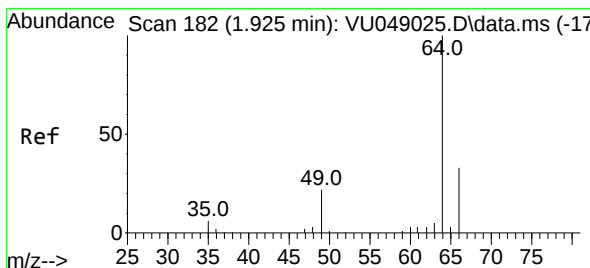
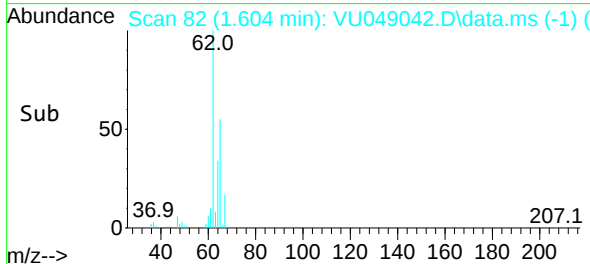
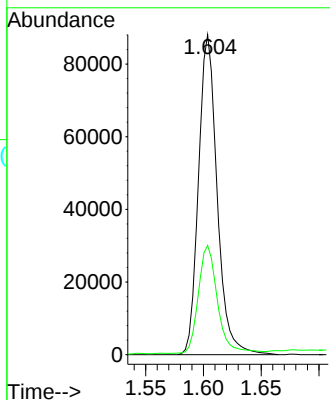
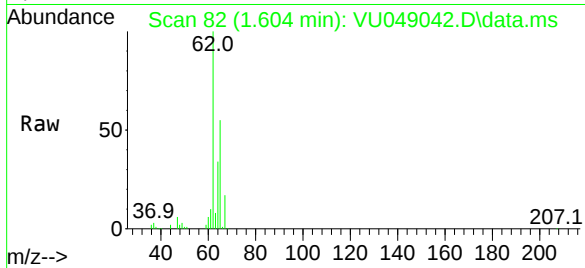




#5
 Vinyl chloride
 Concen: 47.676 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU049042.D
 Acq: 11 Jun 2022 09:30

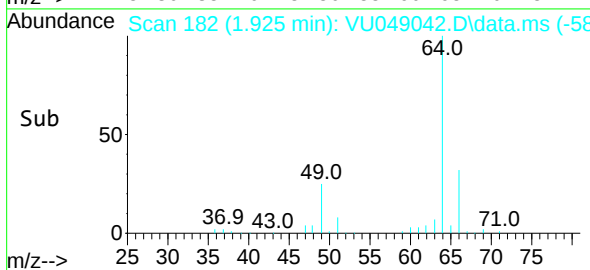
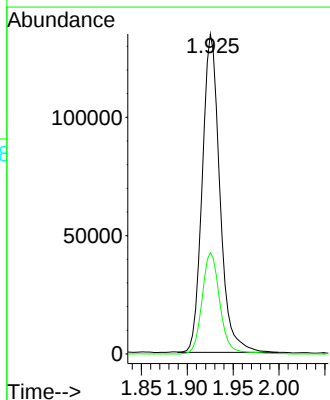
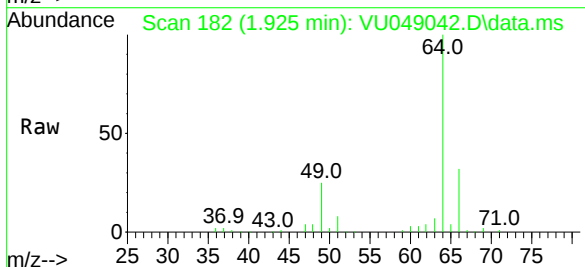
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYZ2

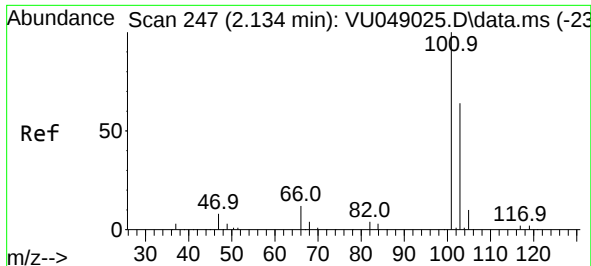
Tgt Ion: 62 Resp: 99078
 Ion Ratio Lower Upper
 62 100
 64 34.1 22.7 42.3



#8
 Chloroethane
 Concen: 154.476 ug/L
 RT: 1.925 min Scan# 182
 Delta R.T. -0.000 min
 Lab File: VU049042.D
 Acq: 11 Jun 2022 09:30

Tgt Ion: 64 Resp: 179302
 Ion Ratio Lower Upper
 64 100
 66 31.7 23.7 43.9

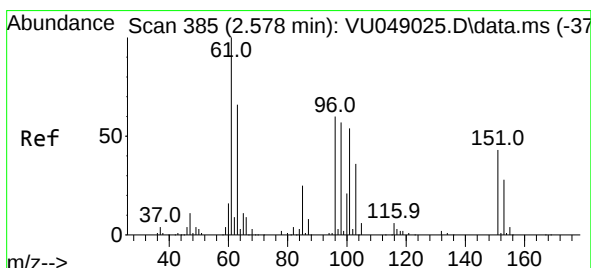
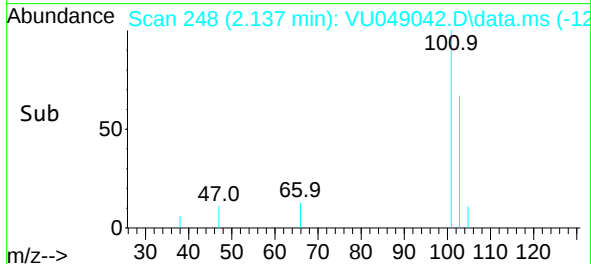
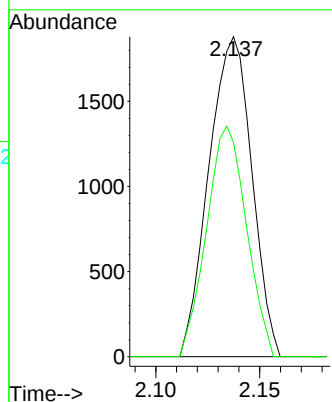
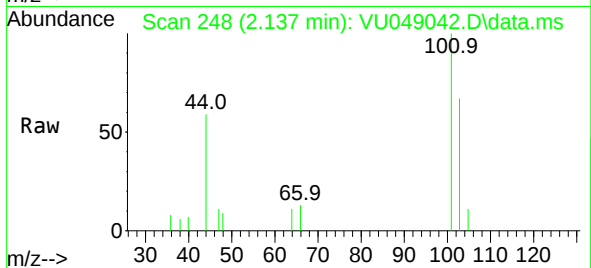




#9
 Trichlorofluoromethane
 Concen: 0.923 ug/L
 RT: 2.137 min Scan# 247
 Delta R.T. 0.003 min
 Lab File: VU049042.D
 Acq: 11 Jun 2022 09:30

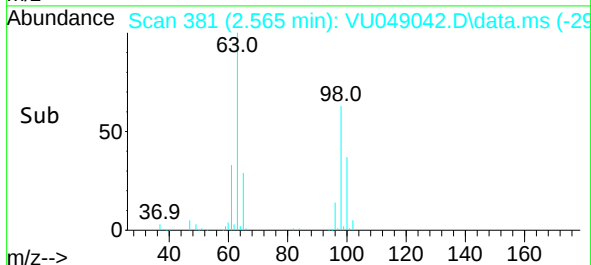
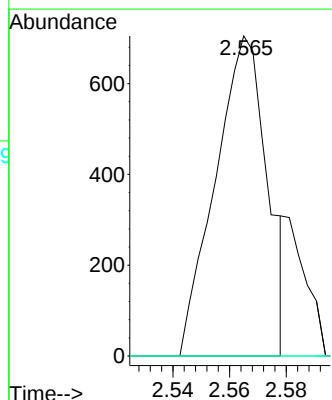
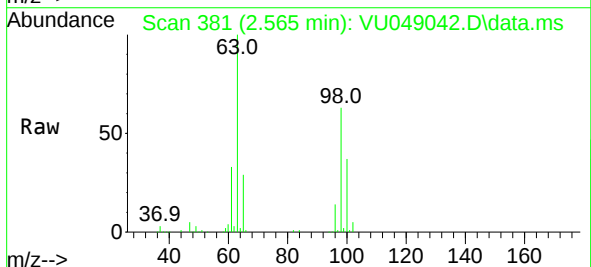
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYZ2

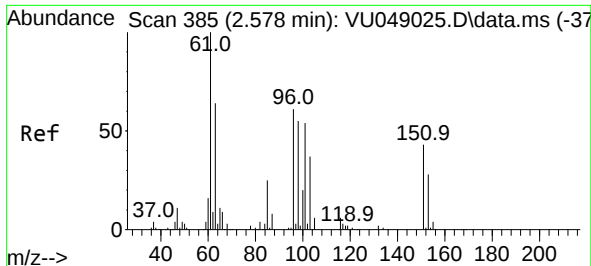
Tgt Ion:101 Resp: 2700
 Ion Ratio Lower Upper
 101 100
 103 66.9 51.3 76.9



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.540 ug/L
 RT: 2.565 min Scan# 381
 Delta R.T. -0.013 min
 Lab File: VU049042.D
 Acq: 11 Jun 2022 09:30

Tgt Ion:101 Resp: 897
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.2 52.8#
 151 0.0 61.4 92.2#

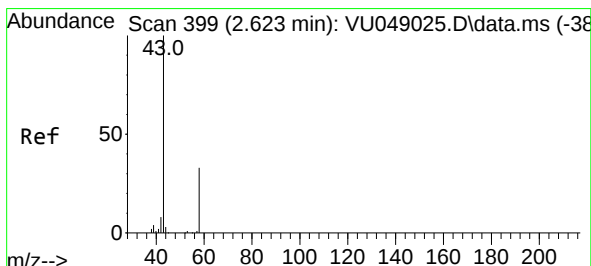
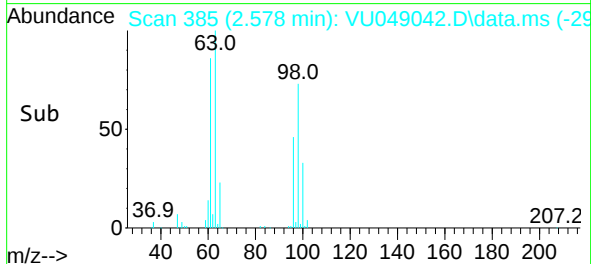
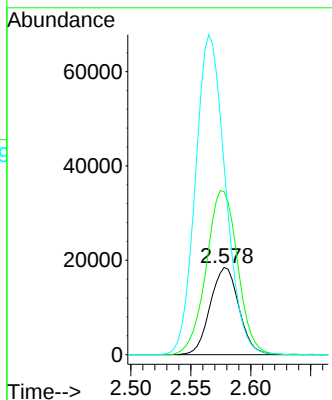
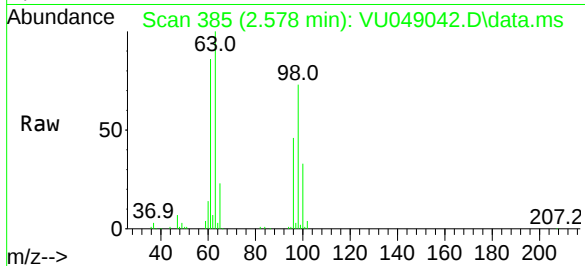




#12
1,1-Dichloroethene
Concen: 21.153 ug/L
RT: 2.578 min Scan# 307
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

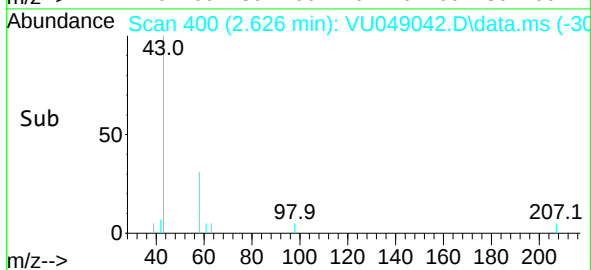
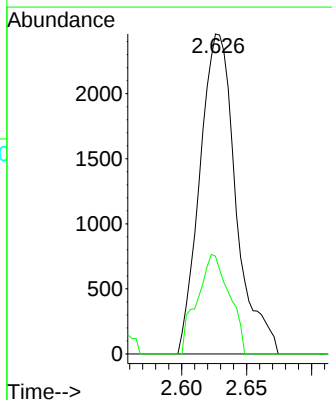
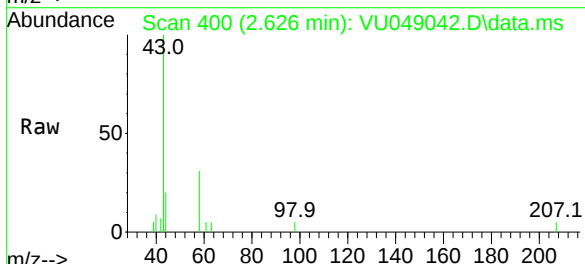
Instrument :
MSVOA_U
ClientSampleId :
EXYZ2

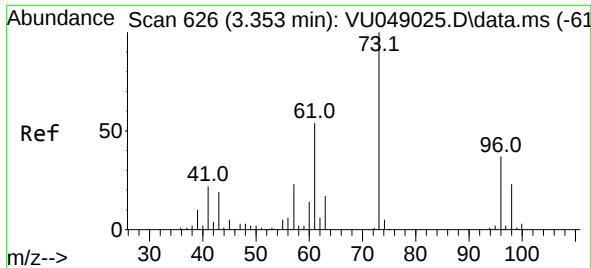
Tgt Ion: 96 Resp: 30742
Ion Ratio Lower Upper
96 100
61 186.8 123.5 229.3
63 216.7 86.0 159.8#



#13
Acetone
Concen: 3.793 ug/L
RT: 2.626 min Scan# 400
Delta R.T. 0.003 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Tgt Ion: 43 Resp: 4751
Ion Ratio Lower Upper
43 100
58 25.1 0.0 66.4

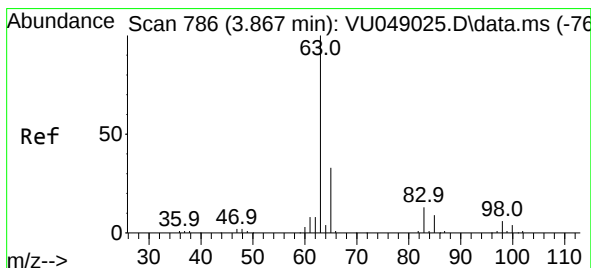
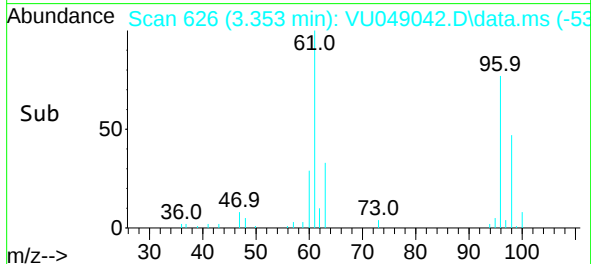
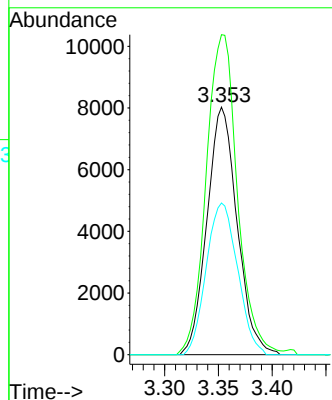
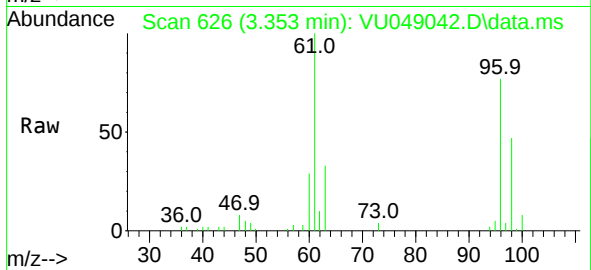




#17
trans-1,2-Dichloroethene
Concen: 9.806 ug/L
RT: 3.353 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

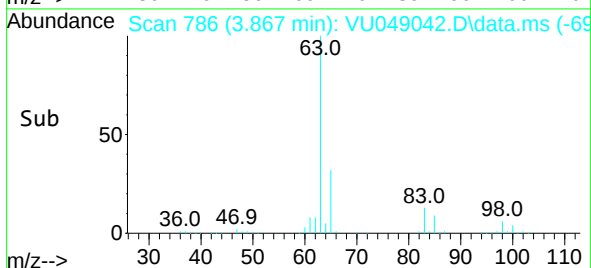
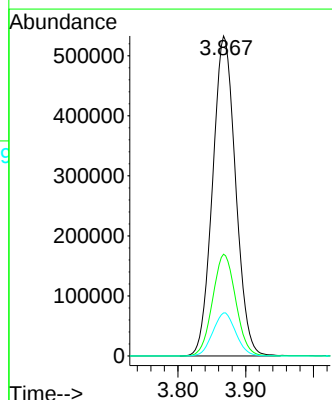
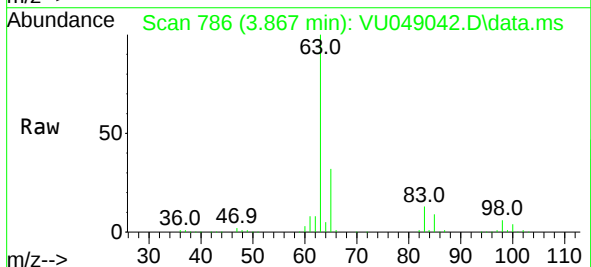
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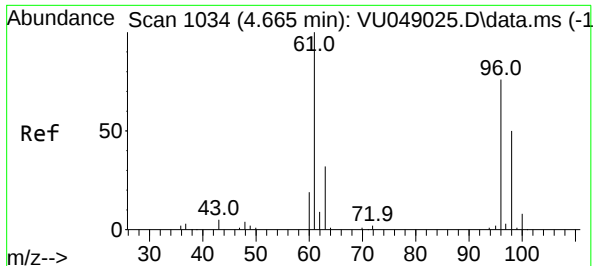
Tgt Ion: 96 Resp: 15670
Ion Ratio Lower Upper
96 100
61 129.3 99.3 184.3
98 61.3 44.7 83.1



#19
1,1-Dichloroethane
Concen: 364.217 ug/L
RT: 3.867 min Scan# 786
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Tgt Ion: 63 Resp: 1253840
Ion Ratio Lower Upper
63 100
65 31.8 22.3 41.5
83 13.5 9.5 17.7

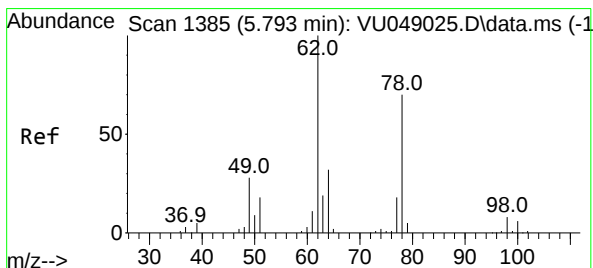
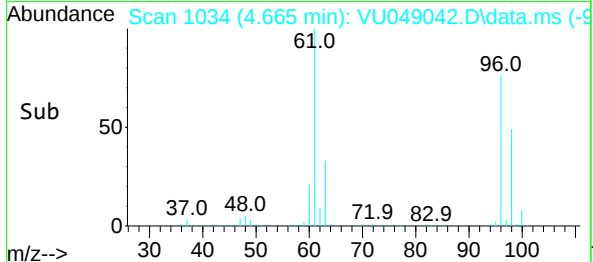
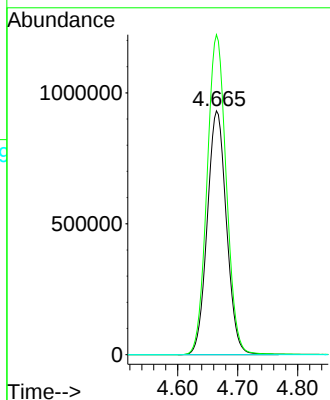
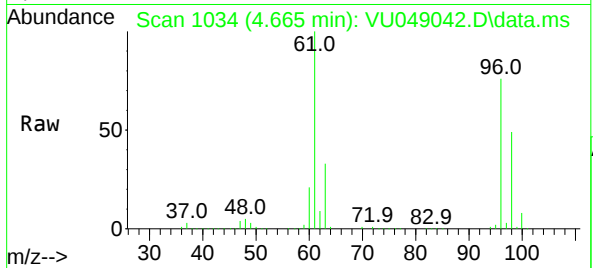




#20
cis-1,2-Dichloroethene
Concen: 1068.758 ug/L
RT: 4.665 min Scan# 1034
Delta R.T. -0.000 min
Lab File: VU049042.D
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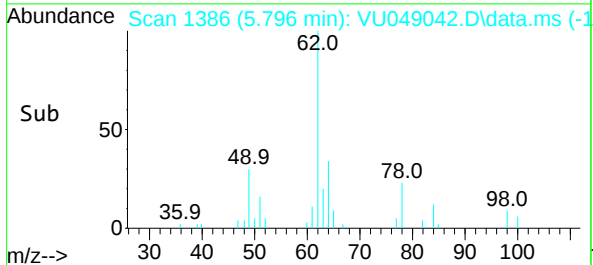
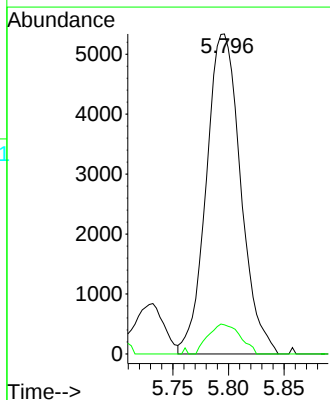
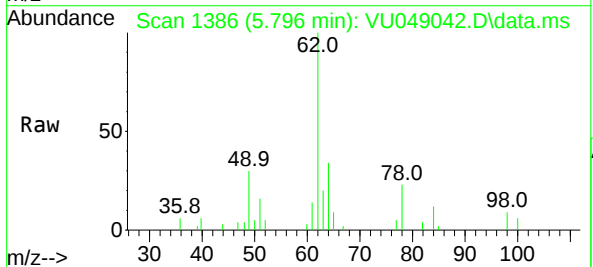
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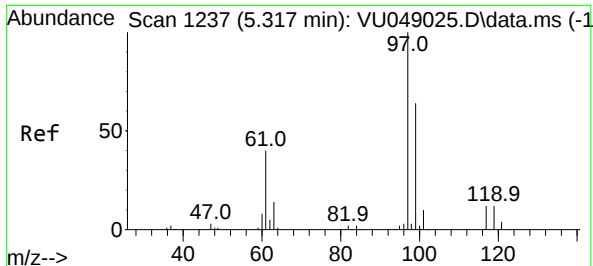
Tgt Ion: 96 Resp: 2077791
Ion Ratio Lower Upper
96 100
61 131.2 91.6 170.2
68 0.0 0.0 0.0



#27
1,2-Dichloroethane
Concen: 3.922 ug/L
RT: 5.796 min Scan# 1386
Delta R.T. 0.003 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Tgt Ion: 62 Resp: 11454
Ion Ratio Lower Upper
62 100
98 9.1 7.0 10.4





#30

1,1,1-Trichloroethane

Concen: 489.863 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. -0.000 min

Lab File: VU049042.D

Acq: 11 Jun 2022 09:30

Instrument :

MSVOA_U

ClientSampleId :

XYZZ

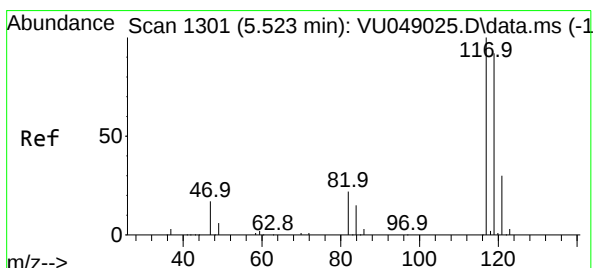
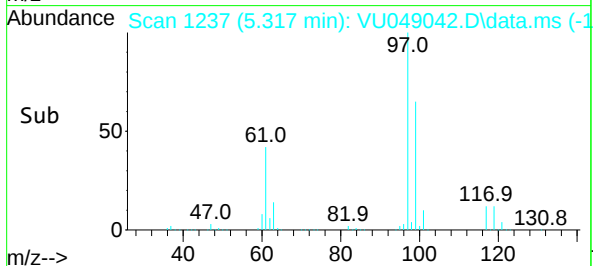
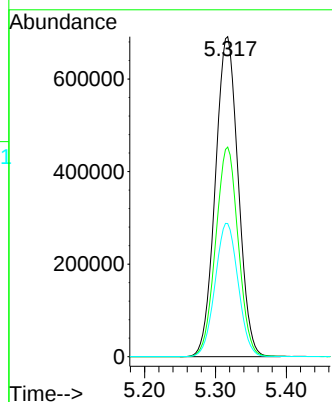
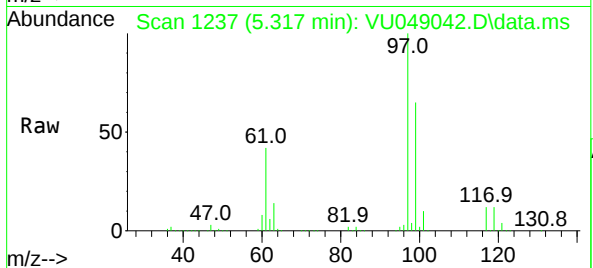
Tgt Ion: 97 Resp: 1551024

Ion Ratio Lower Upper

97 100

99 64.7 50.9 76.3

61 41.9 34.2 51.2



#31

Carbon tetrachloride

Concen: 69.053 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. -0.206 min

Lab File: VU049042.D

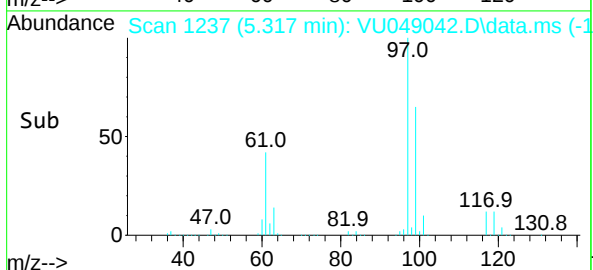
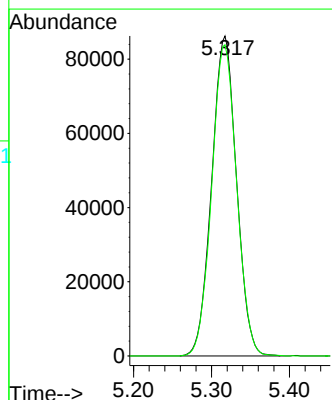
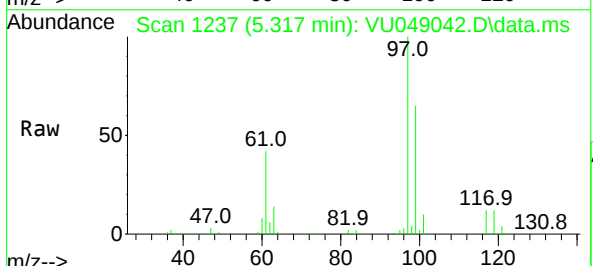
Acq: 11 Jun 2022 09:30

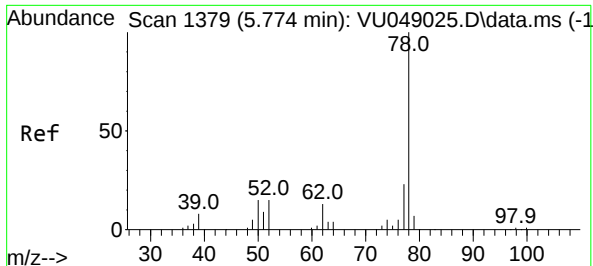
Tgt Ion: 117 Resp: 191217

Ion Ratio Lower Upper

117 100

119 97.9 76.5 114.7





#33

Benzene

Concen: 1.131 ug/L

RT: 5.774 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU049042.D

Acq: 11 Jun 2022 09:30

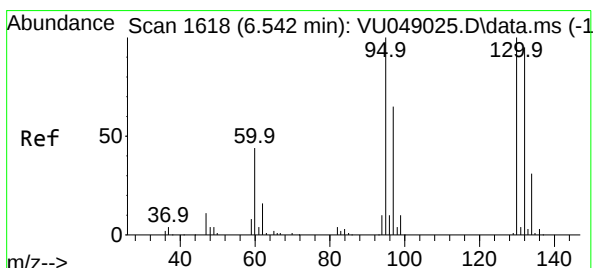
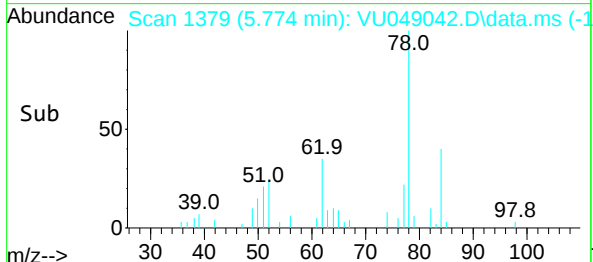
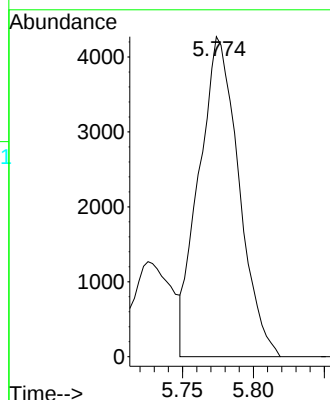
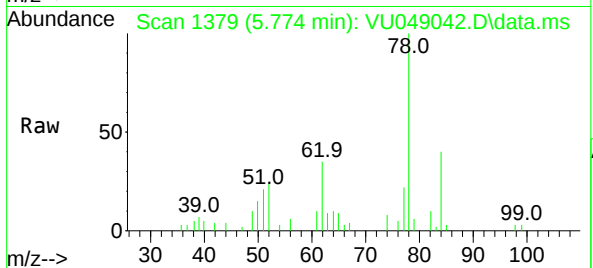
Instrument :

MSVOA_U

ClientSampleId :

XYZZ

Tgt Ion: 78 Resp: 8322



#34

Trichloroethene

Concen: 9.228 ug/L

RT: 6.542 min Scan# 1618

Delta R.T. -0.000 min

Lab File: VU049042.D

Acq: 11 Jun 2022 09:30

Tgt Ion: 95 Resp: 17109

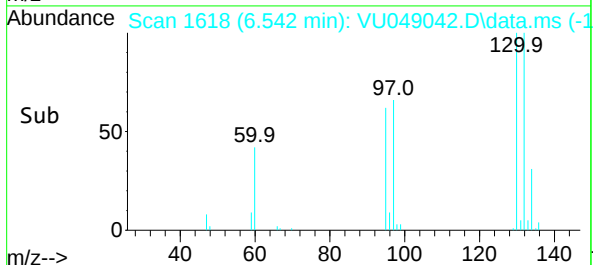
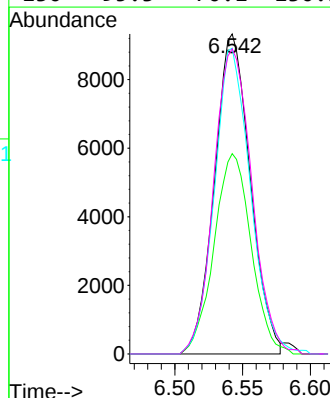
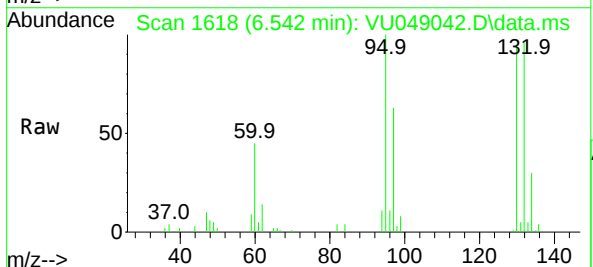
Ion Ratio Lower Upper

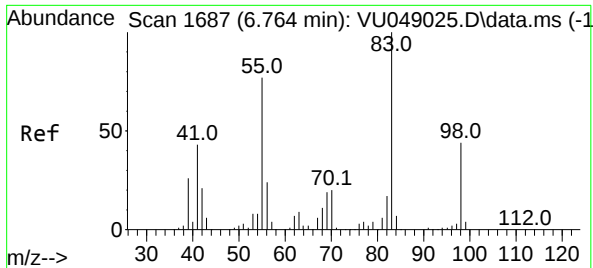
95 100

97 62.6 45.4 84.4

132 95.5 67.6 125.6

130 95.3 70.1 130.3

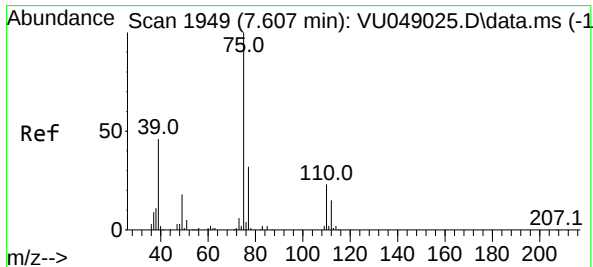
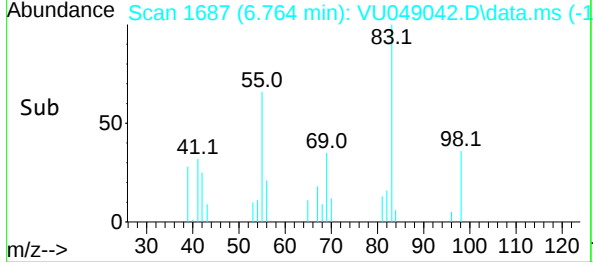
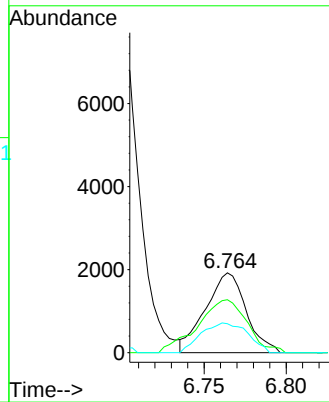
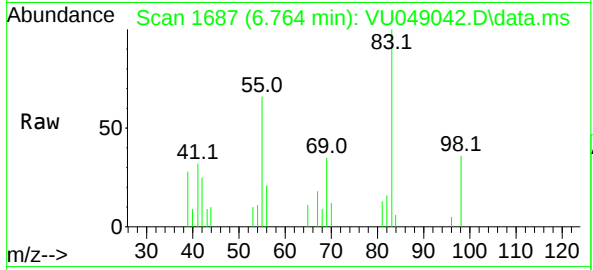




#35
Methylcyclohexane
Concen: 1.277 ug/L
RT: 6.764 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

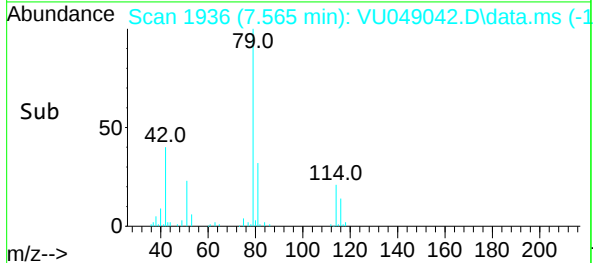
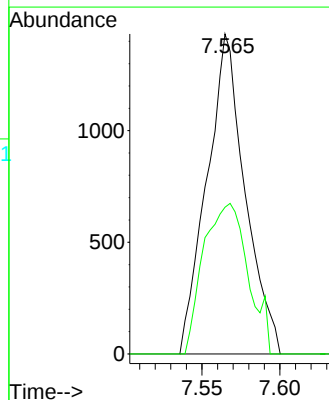
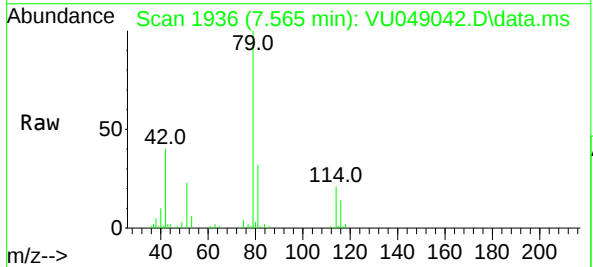
Instrument :
MSVOA_U
ClientSampleId :
EXYZ2

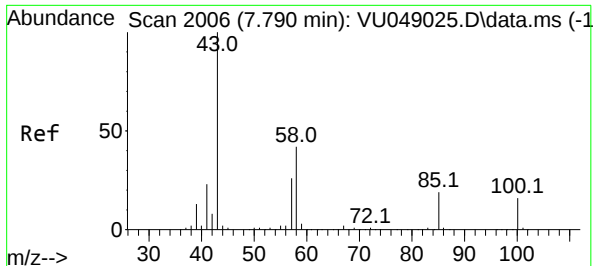
Tgt Ion: 83 Resp: 3306
Ion Ratio Lower Upper
83 100
55 79.2 61.0 91.6
98 42.7 36.8 55.2



#39
cis-1,3-Dichloropropene
Concen: 0.800 ug/L
RT: 7.565 min Scan# 1936
Delta R.T. -0.042 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Tgt Ion: 75 Resp: 2442
Ion Ratio Lower Upper
75 100
77 45.8 22.6 42.0#





#40

4-Methyl-2-pentanone

Concen: 1.936 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. -0.000 min

Lab File: VU049042.D

Acq: 11 Jun 2022 09:30

Instrument :

MSVOA_U

ClientSampleId :

EXYZ2

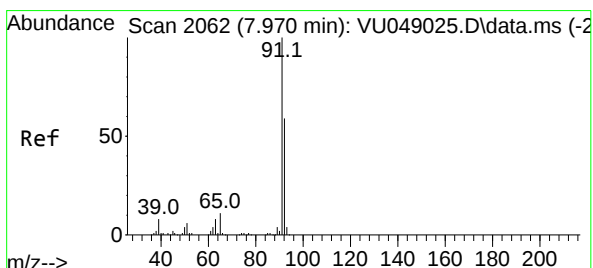
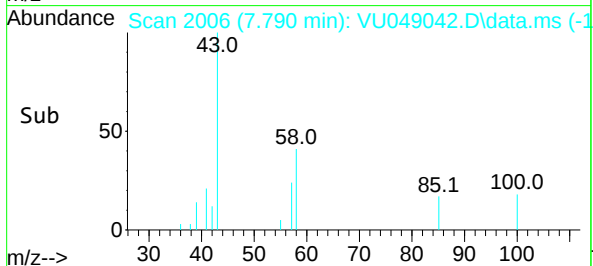
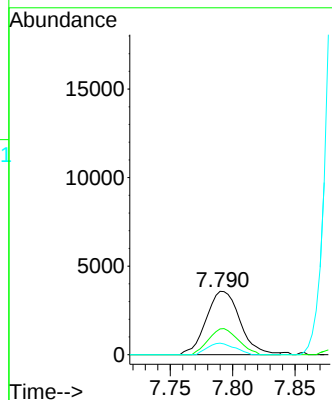
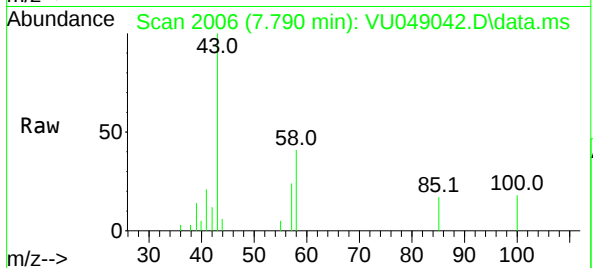
Tgt Ion: 43 Resp: 6764

Ion Ratio Lower Upper

43 100

58 36.1 32.2 48.4

100 14.7 12.3 18.5



#42

Toluene

Concen: 6.563 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU049042.D

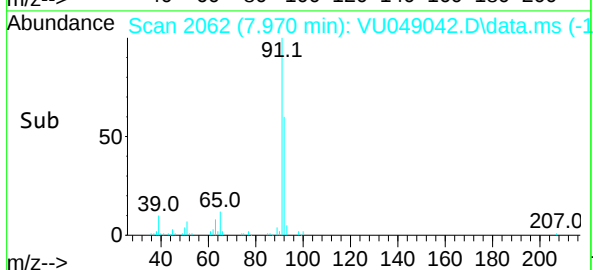
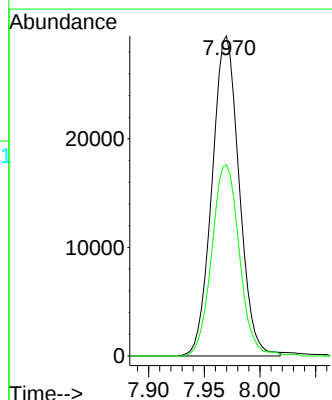
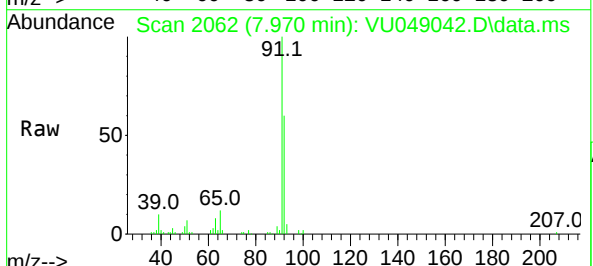
Acq: 11 Jun 2022 09:30

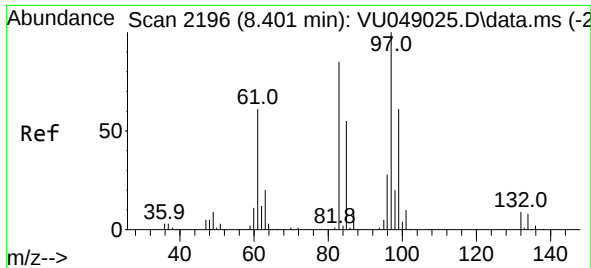
Tgt Ion: 91 Resp: 49894

Ion Ratio Lower Upper

91 100

92 59.8 41.6 77.3

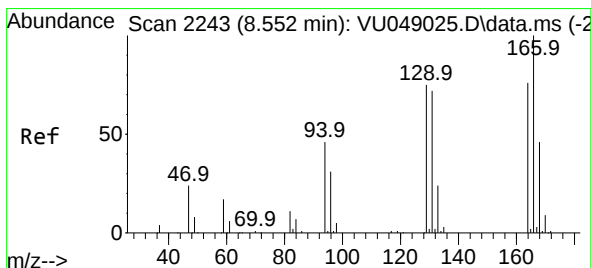
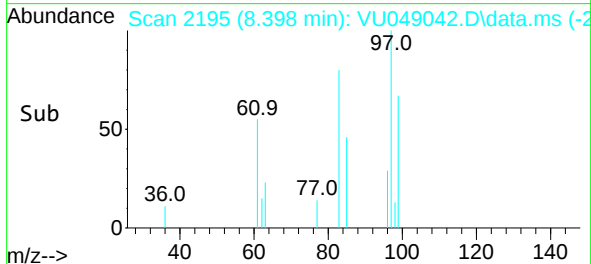
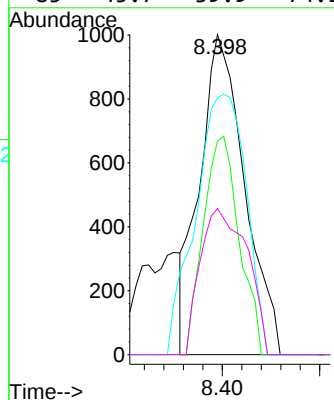
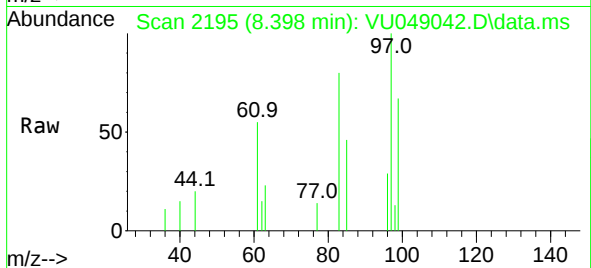




#45
1,1,2-Trichloroethane
Concen: 0.799 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. -0.003 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

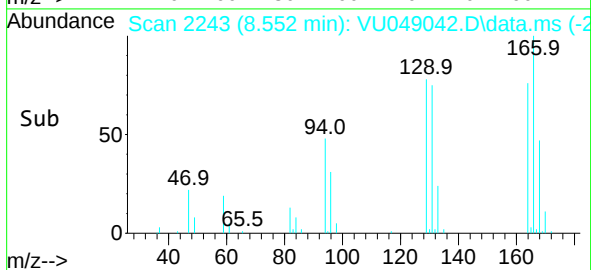
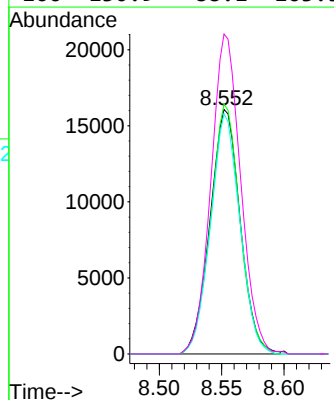
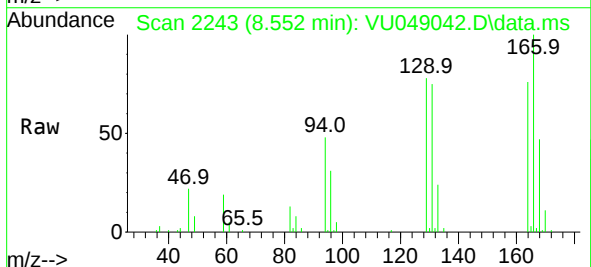
Instrument :
MSVOA_U
ClientSampleId :
EXYZ2

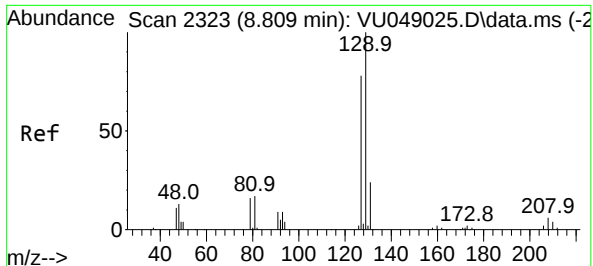
Tgt Ion: 97	Resp: 1605
Ion Ratio	Lower Upper
97 100	
99 66.7	43.5 80.9
83 80.2	60.3 112.1
85 45.7	39.9 74.1



#46
Tetrachloroethene
Concen: 18.925 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Tgt	Ion:164	Resp:	27204
Ion	Ratio	Lower	Upper
164	100		
129	102.2	70.9	131.7
131	98.3	66.2	123.0
166	130.9	88.1	163.5





#49

Dibromochloromethane

Concen: 12.002 ug/L

RT: 8.552 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU049042.D

Acq: 11 Jun 2022 09:30

Instrument :

MSVOA_U

ClientSampleId :

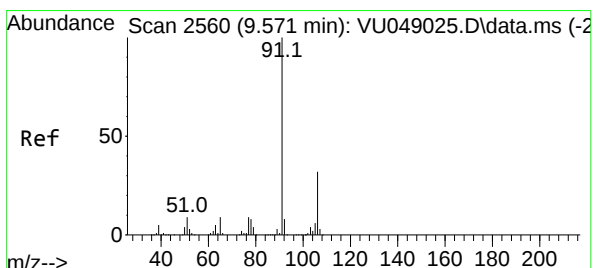
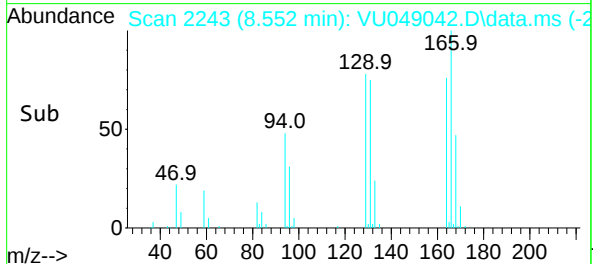
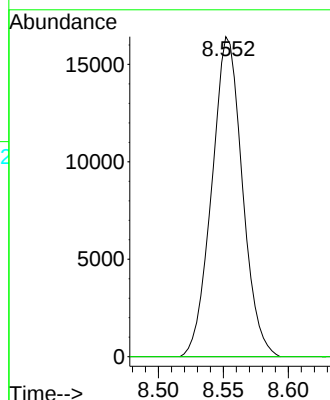
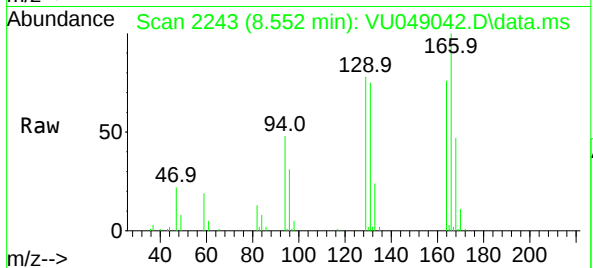
EXYZ2

Tgt Ion:129 Resp: 26858

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#



#52

Ethylbenzene

Concen: 2.292 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. -0.000 min

Lab File: VU049042.D

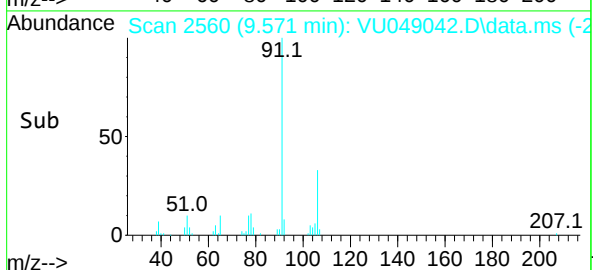
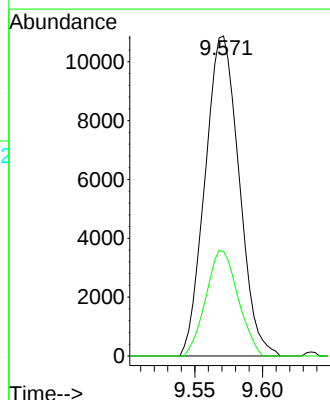
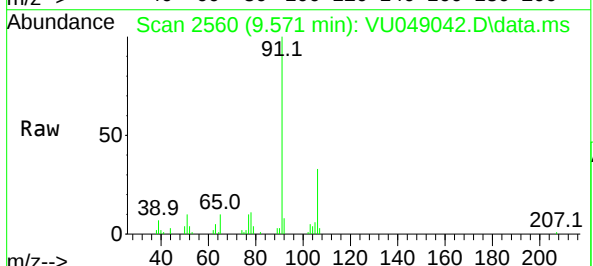
Acq: 11 Jun 2022 09:30

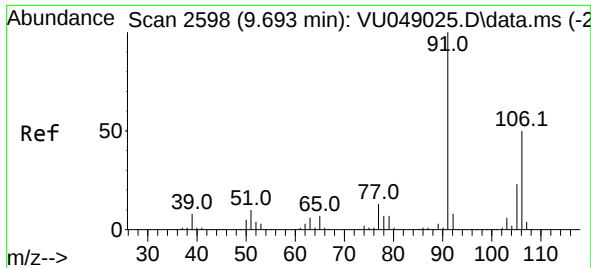
Tgt Ion: 91 Resp: 18947

Ion Ratio Lower Upper

91 100

106 32.7 21.6 40.2

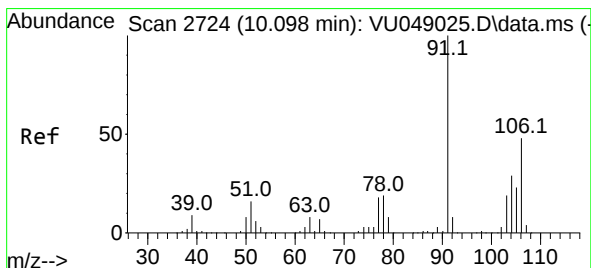
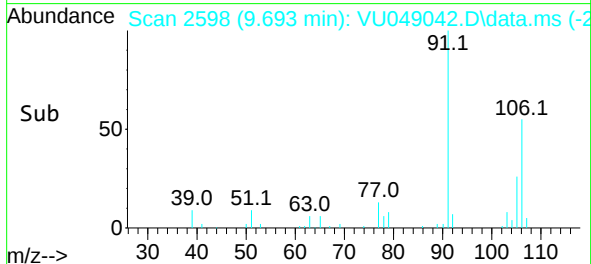
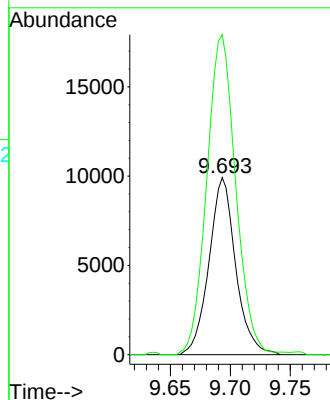
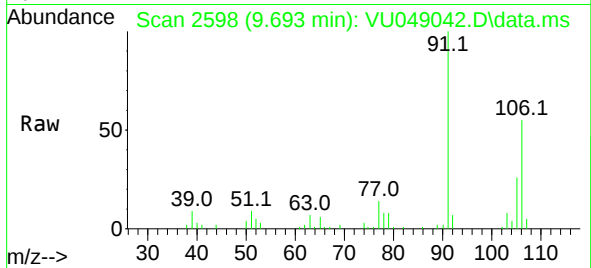




#53
m,p-Xylene
Concen: 4.722 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

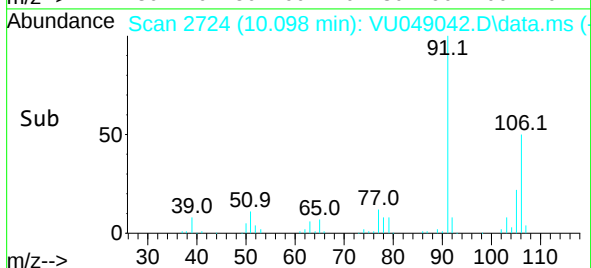
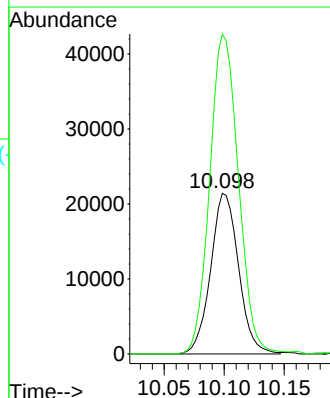
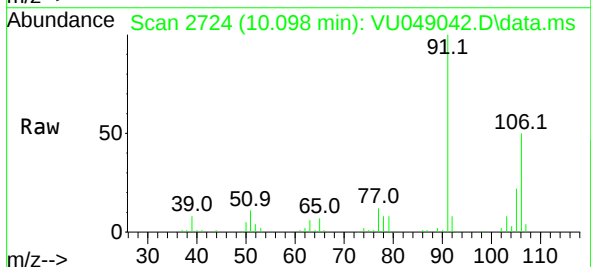
Instrument :
MSVOA_U
ClientSampleId :
EXYZ2

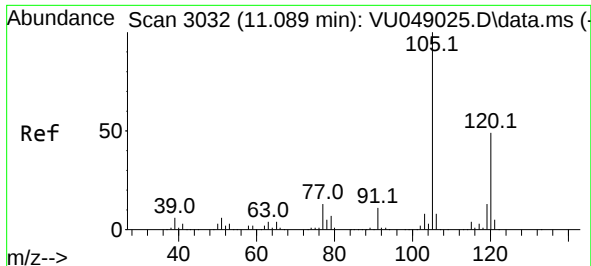
Tgt Ion:106 Resp: 15327
Ion Ratio Lower Upper
106 100
91 180.6 137.4 255.2



#54
o-Xylene
Concen: 10.600 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Tgt Ion:106 Resp: 34666
Ion Ratio Lower Upper
106 100
91 199.1 145.2 269.6

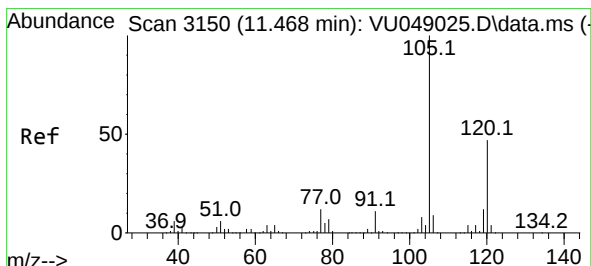
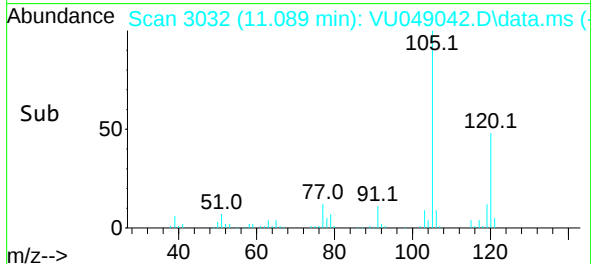
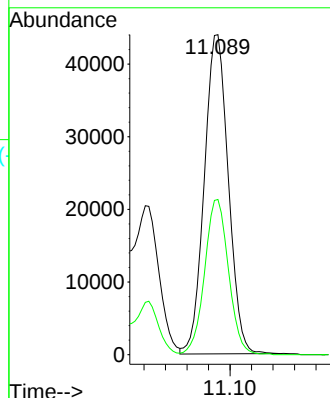
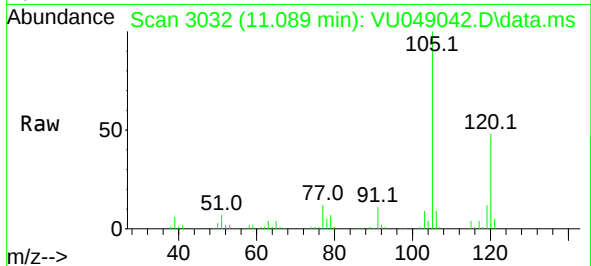




#62
 1,3,5-Trimethylbenzene
 Concen: 10.358 ug/L
 RT: 11.089 min Scan# 3032
 Delta R.T. -0.000 min
 Lab File: VU049042.D
 Acq: 11 Jun 2022 09:30

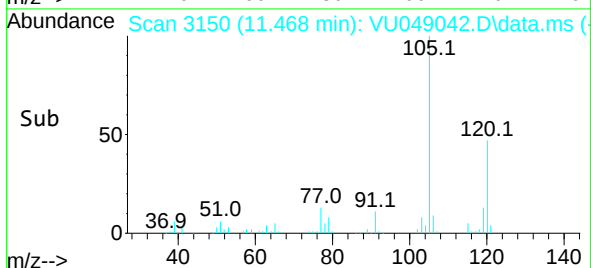
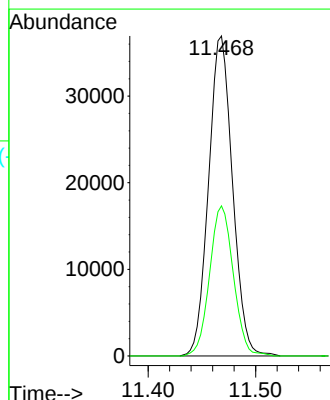
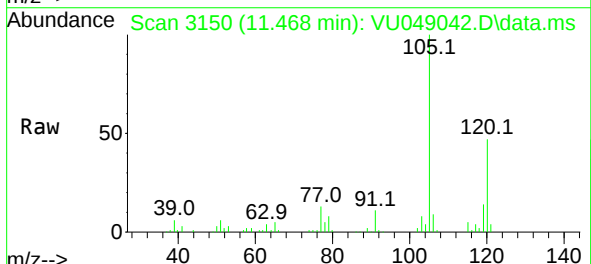
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYZ2

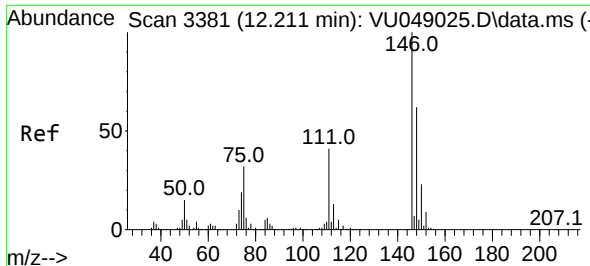
Tgt Ion:105 Resp: 68302
 Ion Ratio Lower Upper
 105 100
 120 48.3 39.1 58.7



#63
 1,2,4-Trimethylbenzene
 Concen: 10.879 ug/L
 RT: 11.468 min Scan# 3150
 Delta R.T. -0.000 min
 Lab File: VU049042.D
 Acq: 11 Jun 2022 09:30

Tgt Ion:105 Resp: 57117
 Ion Ratio Lower Upper
 105 100
 120 46.5 36.3 54.5

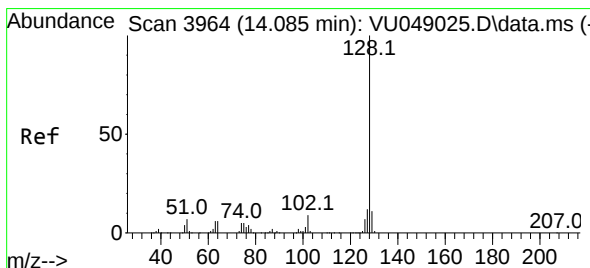
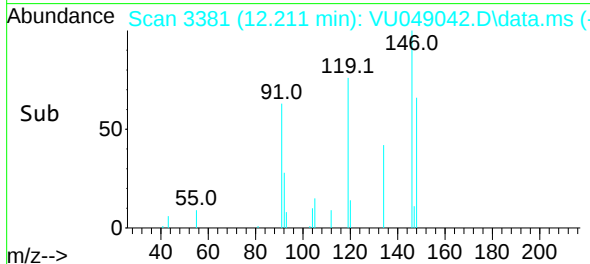
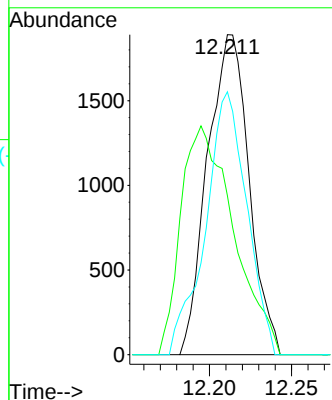
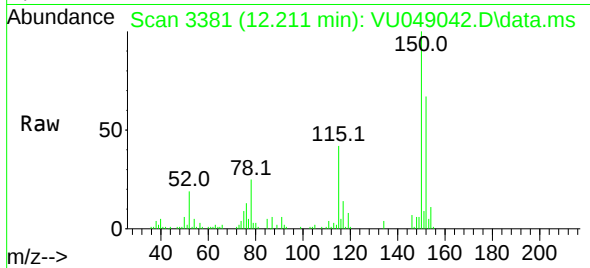




#67
1,2-Dichlorobenzene
Concen: 0.846 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Instrument :
MSVOA_U
ClientSampleId :
EXYZ2

Tgt Ion:146 Resp: 3327
Ion Ratio Lower Upper
146 100
111 49.7 33.9 50.9
148 82.2 50.2 75.2#



#71
Naphthalene
Concen: 1.763 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.006 min
Lab File: VU049042.D
Acq: 11 Jun 2022 09:30

Tgt Ion:128 Resp: 14276
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 9.8 8.6 12.8

