

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100522\
 Data File : VU051146.D
 Acq On : 05 Oct 2022 23:30
 Operator : JC/MD
 Sample : N4889-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ63

Quant Time: Oct 06 06:31:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092922WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 06 06:20:30 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	319499	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	341274	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	151216	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	108079	33.379	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	66.760%
7) Chloroethane-d5	1.887	69	94509	31.421	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	62.840%#
11) 1,1-Dichloroethene-d2	2.556	63	143241	29.948	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	59.900%#
21) 2-Butanone-d5	4.620	46	233410	111.143	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.140%
24) Chloroform-d	5.060	84	196404	37.649	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.300%
26) 1,2-Dichloroethane-d4	5.697	65	127335	39.435	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.860%
32) Benzene-d6	5.723	84	428107	42.837	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.680%
36) 1,2-Dichloropropane-d6	6.690	67	142925	44.073	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.140%
41) Toluene-d8	7.919	98	417728	45.241	ug/L	0.02
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.480%
43) trans-1,3-Dichloroprop...	8.189	79	60399	39.049	ug/L	0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.100%
47) 2-Hexanone-d5	8.632	63	142099	108.520	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.520%
56) 1,1,2,2-Tetrachloroeth...	10.755	84	234962	41.457	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	82.920%
66) 1,2-Dichlorobenzene-d4	12.192	152	148854	46.079	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.160%
Target Compounds						
5) Vinyl chloride	1.601	62	1358	0.404	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	1774	0.727	ug/L #	22
12) 1,1-Dichloroethene	2.559	96	1381	0.606	ug/L #	1
15) Methyl Acetate	2.954	43	5240	1.711	ug/L #	75
19) 1,1-Dichloroethane	3.864	63	5628	1.222	ug/L	96
20) cis-1,2-Dichloroethene	4.662	96	17990	6.647	ug/L	99
29) Cyclohexane	5.385	56	8186	2.463	ug/L	95
30) 1,1,1-Trichloroethane	5.311	97	7609	1.901	ug/L	97
33) Benzene	5.771	78	12163	1.169	ug/L	100
35) Methylcyclohexane	6.761	83	87665	23.901	ug/L #	85
38) Bromodichloromethane	7.076	83	1868	0.500	ug/L #	80
44) trans-1,3-Dichloropropene	8.189	75	2540	0.633	ug/L #	68
45) 1,1,2-Trichloroethane	8.375	97	32845	10.823	ug/L #	18
46) Tetrachloroethene	8.555	164	14310	7.007	ug/L	98
52) Ethylbenzene	9.571	91	8328462	705.535	ug/L	100
53) m,p-Xylene	9.694	106	4070042	916.874	ug/L	99
54) o-Xylene	10.099	106	672623	151.596	ug/L	100
55) Styrene	10.099	104	38102	4.969	ug/L #	1
61) Isopropylbenzene	10.484	105	66730	6.793	ug/L	99

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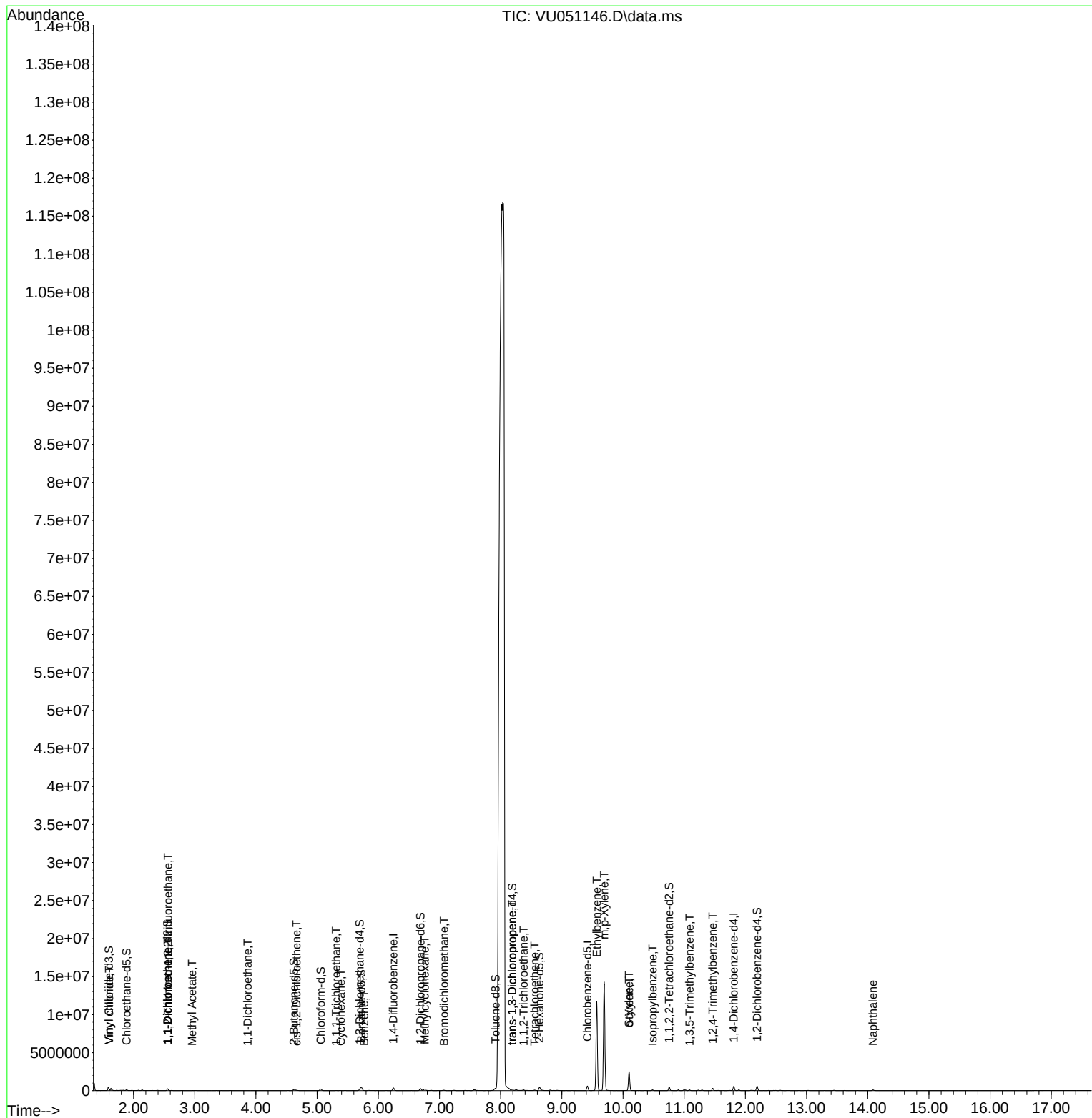
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.089	105	53274	6.632	ug/L	96
63) 1,2,4-Trimethylbenzene	11.468	105	168035	20.872	ug/L	98
71) Naphthalene	14.086	128	93530	9.300	ug/L	100

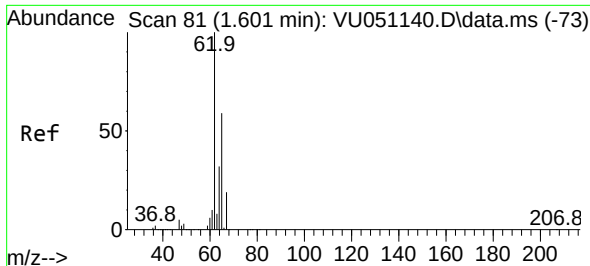
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

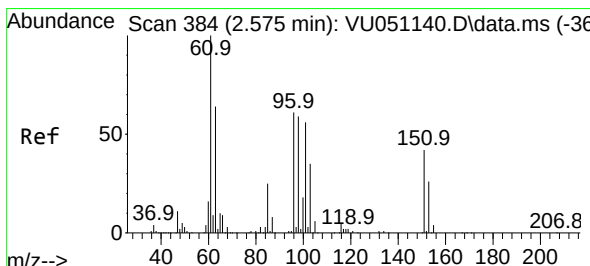
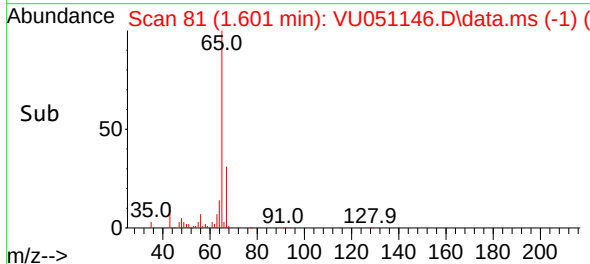
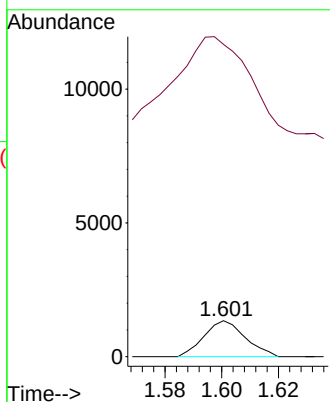
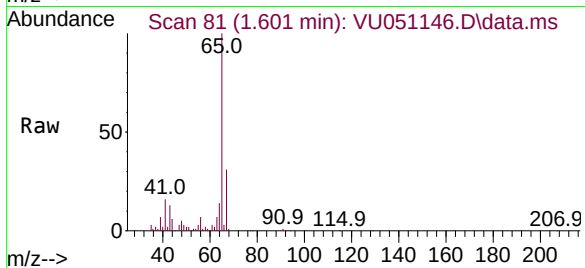




#5
 Vinyl chloride
 Concen: 0.404 ug/L
 RT: 1.601 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU051146.D
 Acq: 05 Oct 2022 23:30

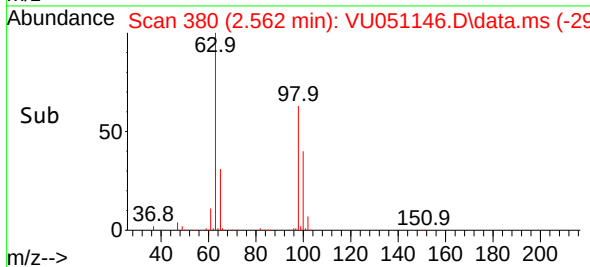
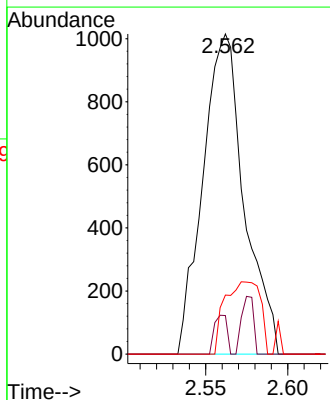
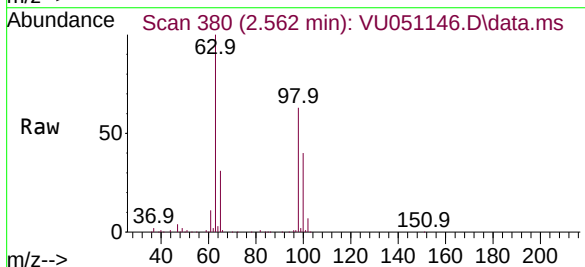
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ63

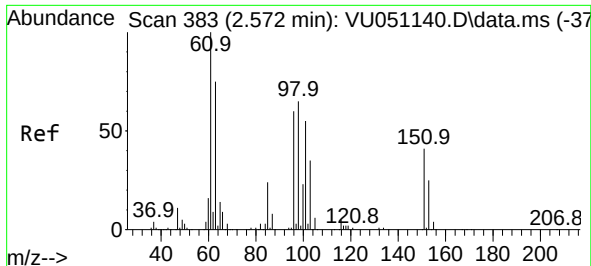
Tgt Ion: 62 Resp: 1358
 Ion Ratio Lower Upper
 62 100
 64 866.0 23.5 43.7#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.727 ug/L
 RT: 2.562 min Scan# 380
 Delta R.T. -0.013 min
 Lab File: VU051146.D
 Acq: 05 Oct 2022 23:30

Tgt Ion: 101 Resp: 1774
 Ion Ratio Lower Upper
 101 100
 85 3.8 34.6 52.0#
 151 0.0 58.6 87.8#





#12

1,1-Dichloroethene

Concen: 0.606 ug/L

RT: 2.559 min Scan# 31

Delta R.T. -0.013 min

Lab File: VU051146.D

Acq: 05 Oct 2022 23:30

Instrument :

MSVOA_U

ClientSampleId :

EXZ63

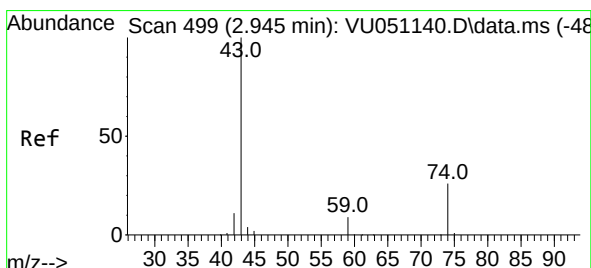
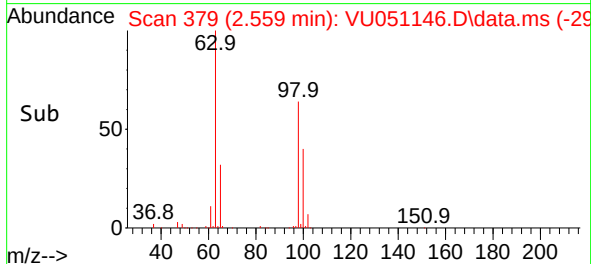
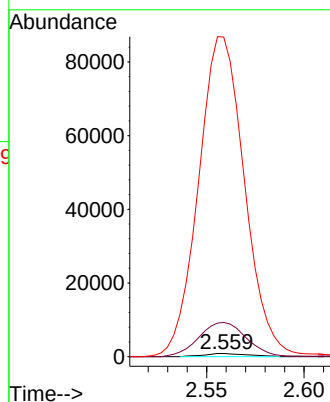
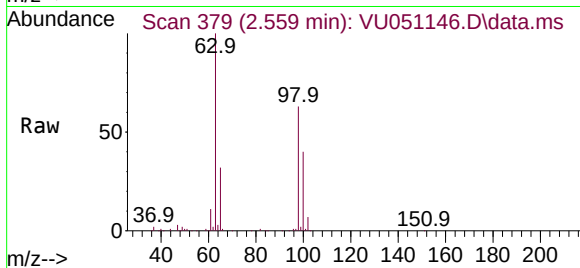
Tgt Ion: 96 Resp: 1381

Ion Ratio Lower Upper

96 100

61 1051.8 113.0 209.9#

63 9840.4 91.7 170.3#



#15

Methyl Acetate

Concen: 1.711 ug/L

RT: 2.954 min Scan# 502

Delta R.T. 0.010 min

Lab File: VU051146.D

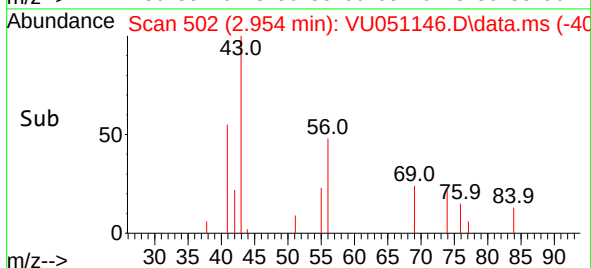
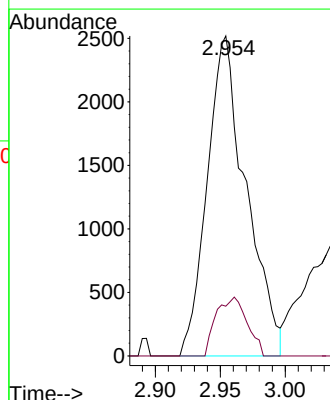
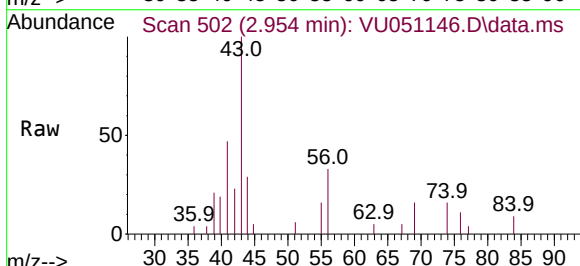
Acq: 05 Oct 2022 23:30

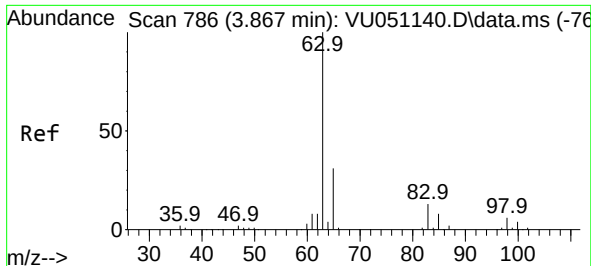
Tgt Ion: 43 Resp: 5240

Ion Ratio Lower Upper

43 100

74 14.6 22.4 33.6#





#19

1,1-Dichloroethane

Concen: 1.222 ug/L

RT: 3.864 min Scan# 785

Delta R.T. -0.003 min

Lab File: VU051146.D

Acq: 05 Oct 2022 23:30

Instrument :

MSVOA_U

ClientSampleId :

EXZ63

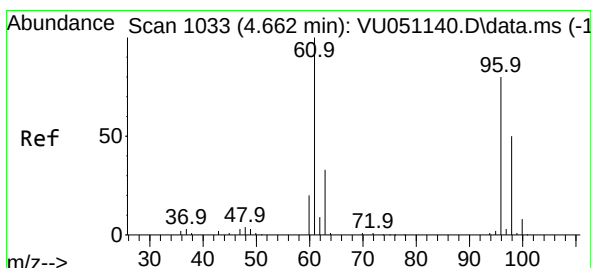
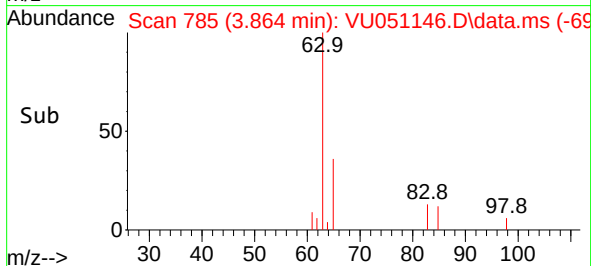
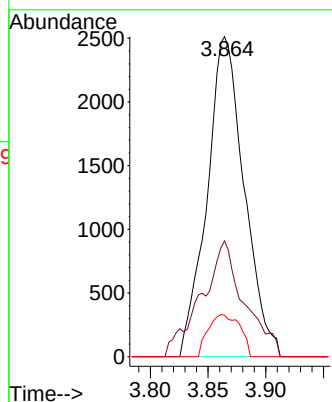
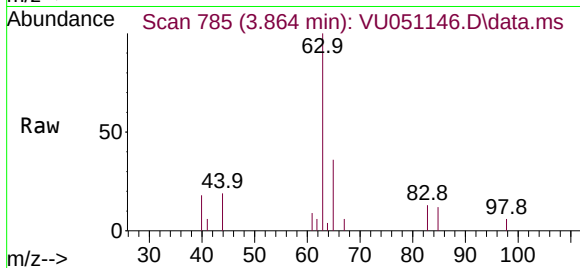
Tgt Ion: 63 Resp: 5628

Ion Ratio Lower Upper

63 100

65 34.8 22.6 42.0

83 12.5 9.4 17.4



#20

cis-1,2-Dichloroethene

Concen: 6.647 ug/L

RT: 4.662 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VU051146.D

Acq: 05 Oct 2022 23:30

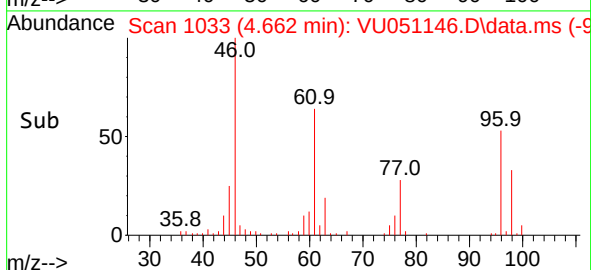
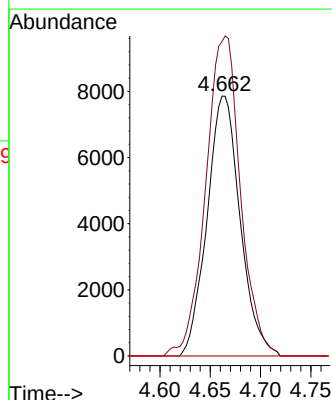
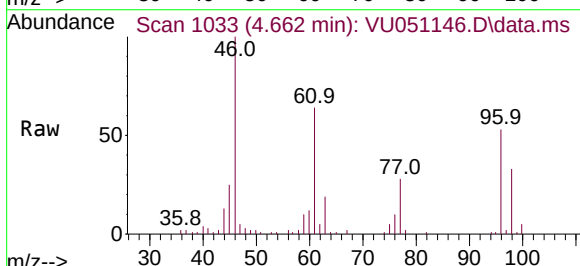
Tgt Ion: 96 Resp: 17990

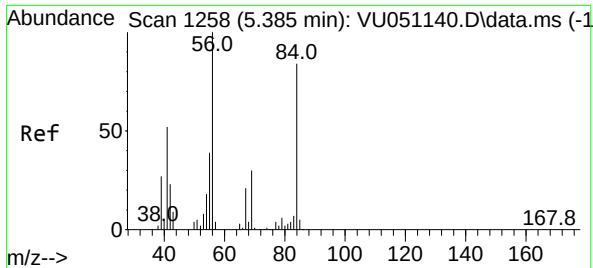
Ion Ratio Lower Upper

96 100

61 121.0 85.4 158.6

68 0.0 0.0 0.0





#29

Cyclohexane

Concen: 2.463 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VU051146.D

Acq: 05 Oct 2022 23:30

Instrument :

MSVOA_U

ClientSampleId :

EXZ63

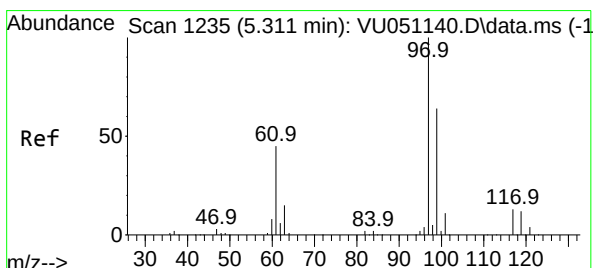
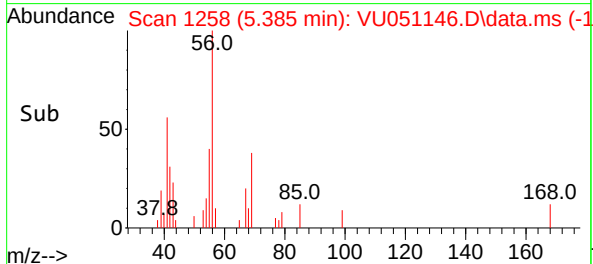
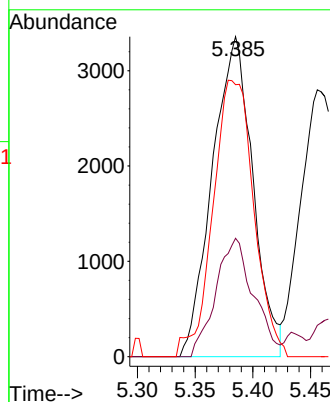
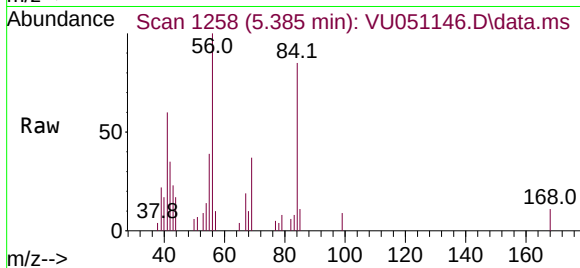
Tgt Ion: 56 Resp: 8186

Ion Ratio Lower Upper

56 100

69 34.6 24.8 37.2

84 85.1 71.8 107.6



#30

1,1,1-Trichloroethane

Concen: 1.901 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. 0.000 min

Lab File: VU051146.D

Acq: 05 Oct 2022 23:30

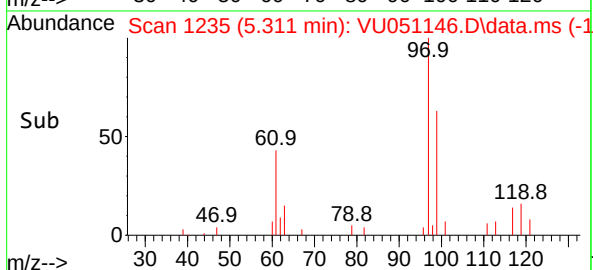
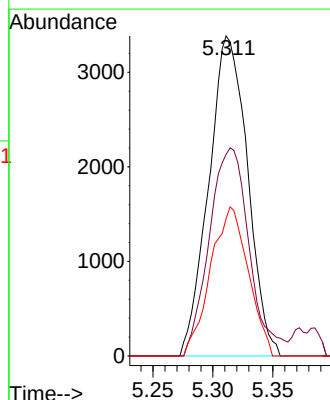
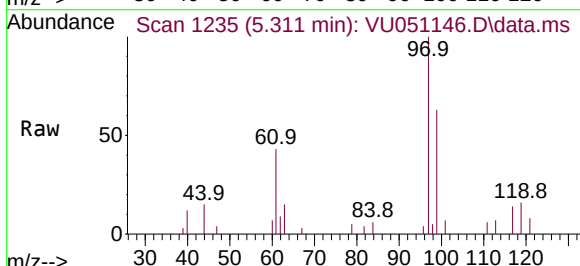
Tgt Ion: 97 Resp: 7609

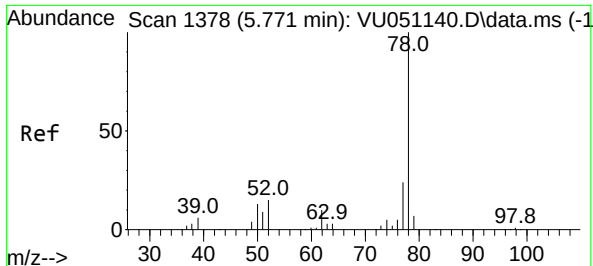
Ion Ratio Lower Upper

97 100

99 67.4 51.4 77.2

61 45.4 36.0 54.0

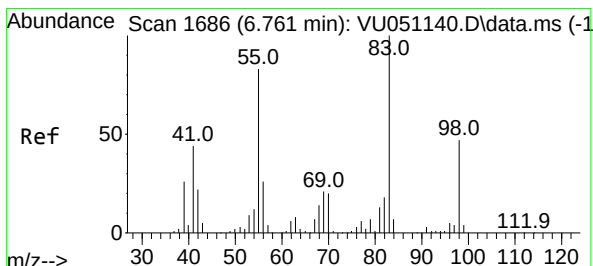
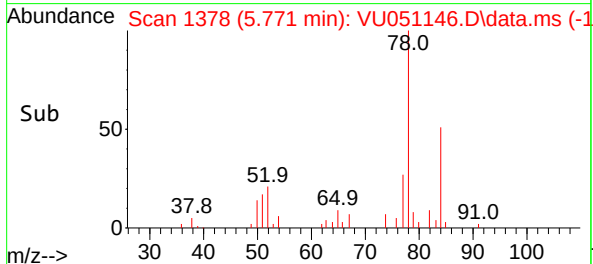
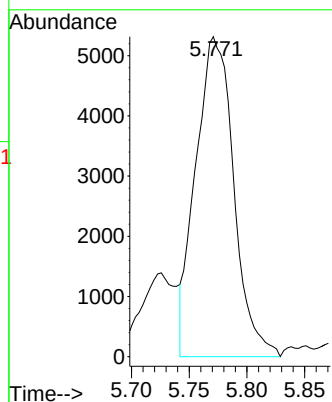
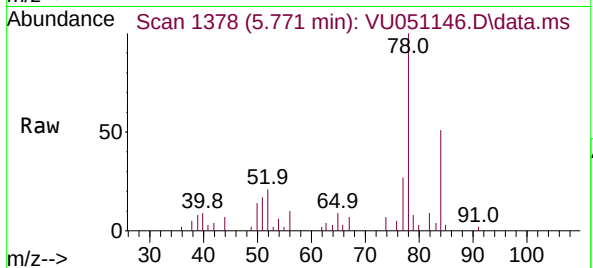




#33
Benzene
Concen: 1.169 ug/L
RT: 5.771 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

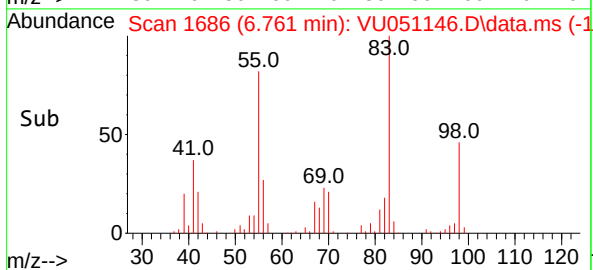
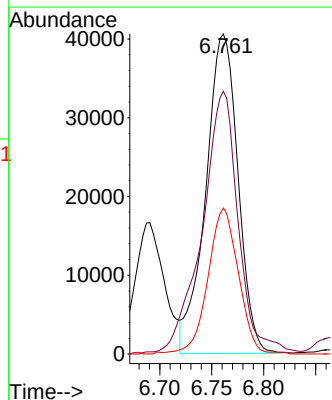
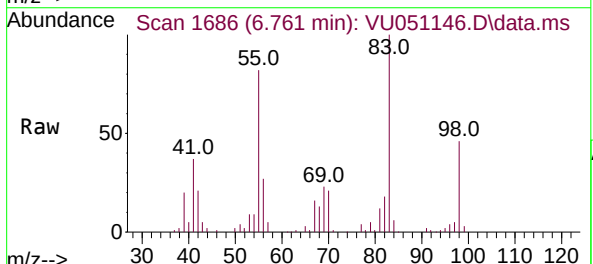
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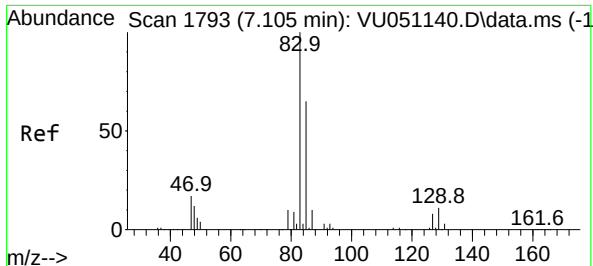
Tgt Ion: 78 Resp: 12163



#35
Methylcyclohexane
Concen: 23.901 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

Tgt Ion: 83 Resp: 87665
Ion Ratio Lower Upper
83 100
55 92.1 59.3 88.9#
98 42.0 36.0 54.0





#38

Bromodichloromethane

Concen: 0.500 ug/L

RT: 7.076 min Scan# 11

Delta R.T. -0.029 min

Lab File: VU051146.D

Acq: 05 Oct 2022 23:30

Instrument :

MSVOA_U

ClientSampleId :

EXZ63

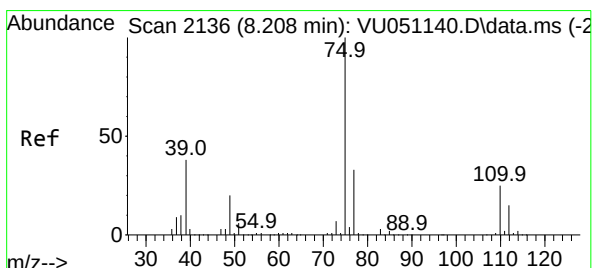
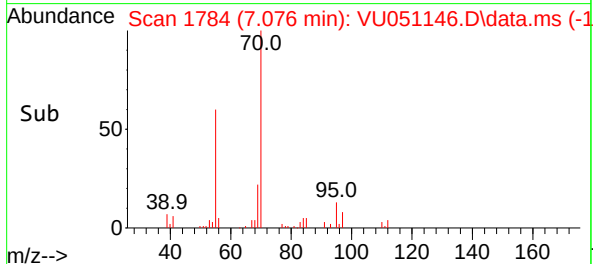
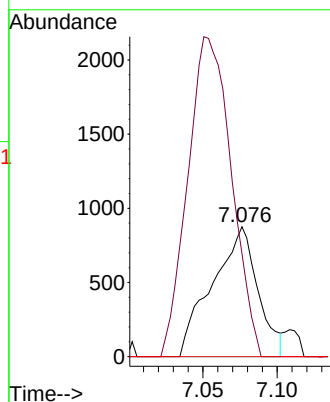
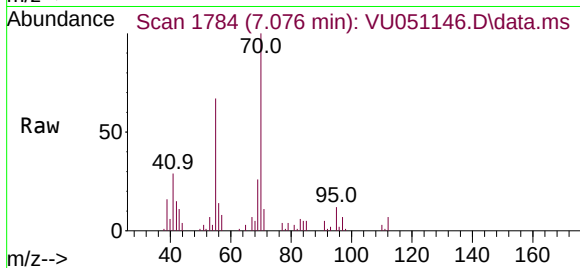
Tgt Ion: 83 Resp: 1868

Ion Ratio Lower Upper

83 100

85 79.3 45.1 83.7

127 0.0 6.7 10.1#



#44

trans-1,3-Dichloropropene

Concen: 0.633 ug/L

RT: 8.189 min Scan# 2130

Delta R.T. -0.019 min

Lab File: VU051146.D

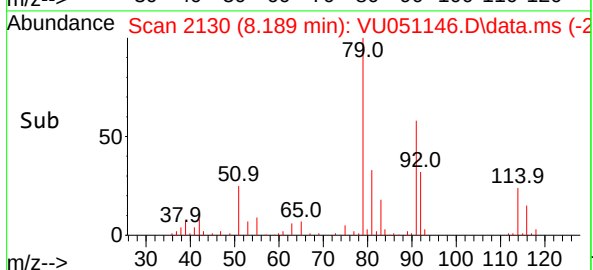
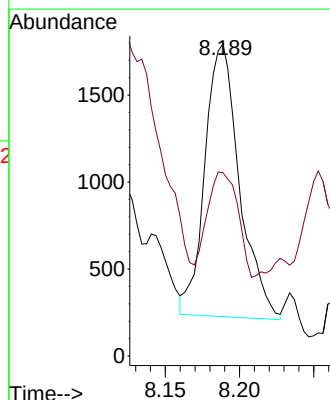
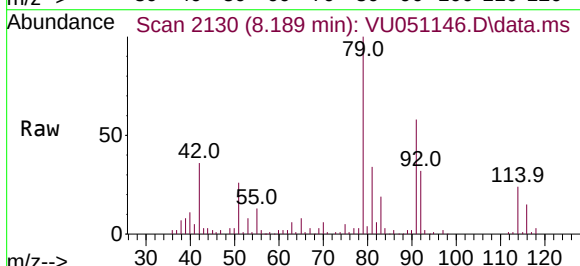
Acq: 05 Oct 2022 23:30

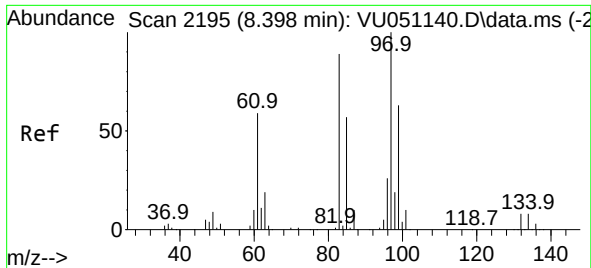
Tgt Ion: 75 Resp: 2540

Ion Ratio Lower Upper

75 100

77 50.2 22.7 42.3#

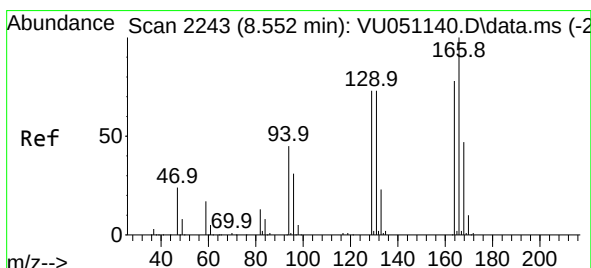
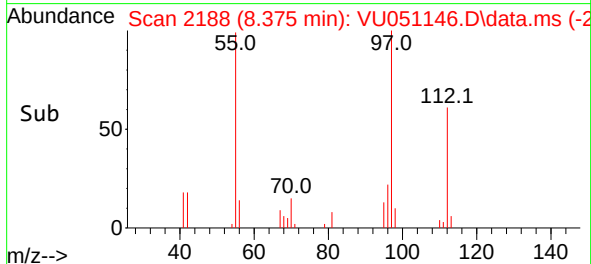
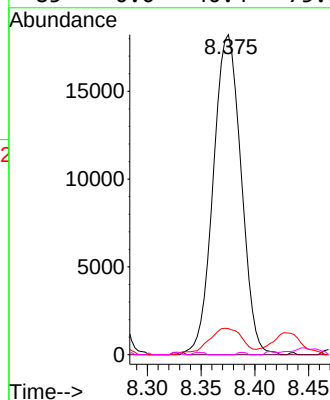
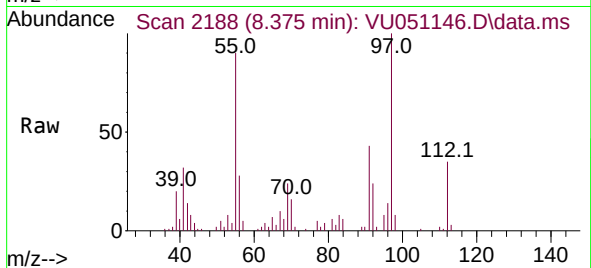




#45
1,1,2-Trichloroethane
Concen: 10.823 ug/L
RT: 8.375 min Scan# 2195
Delta R.T. -0.022 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

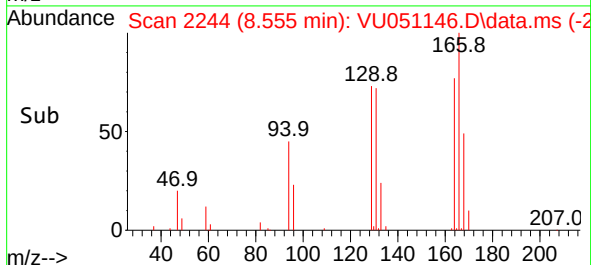
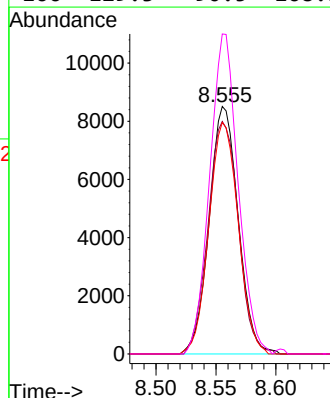
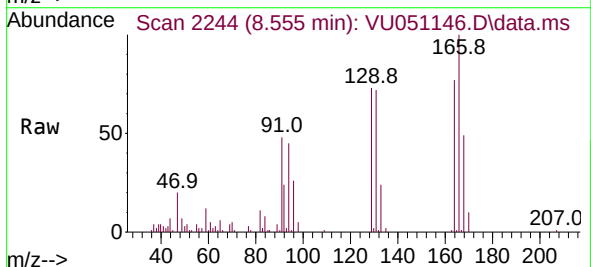
Instrument :
MSVOA_U
ClientSampleId :
EXZ63

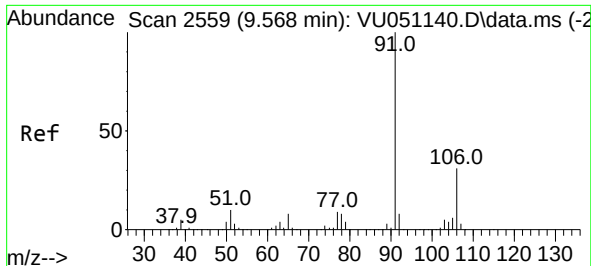
Tgt Ion: 97	Resp: 32845
Ion Ratio	Lower Upper
97 100	
99 0.0	44.4 82.4#
83 8.1	61.7 114.5#
85 0.0	40.4 75.0#



#46
Tetrachloroethene
Concen: 7.007 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.003 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

Tgt	Ion:164	Resp:	14310
Ion	Ratio	Lower	Upper
164	100		
129	93.9	68.1	126.5
131	93.6	67.8	126.0
166	129.3	90.5	168.1

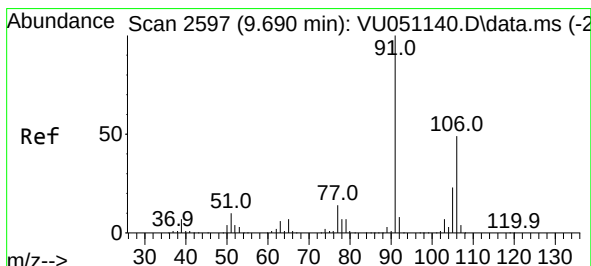
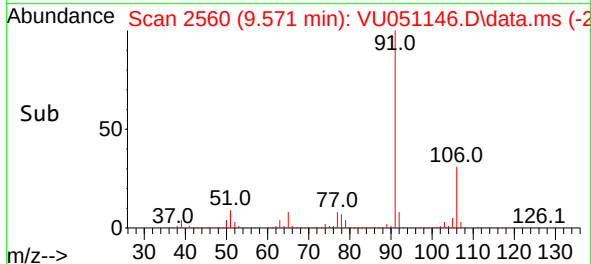
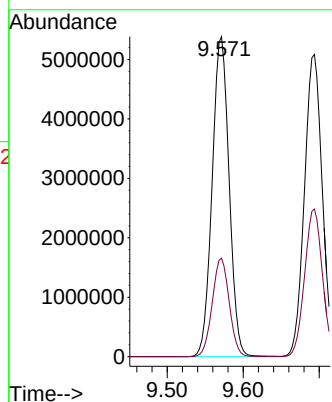
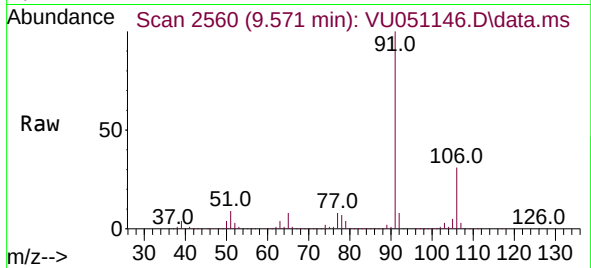




#52
Ethylbenzene
Concen: 705.535 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.003 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

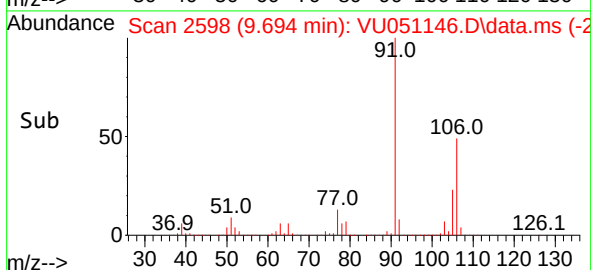
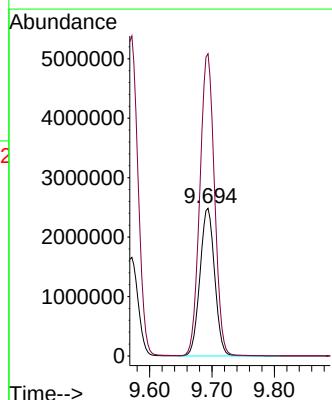
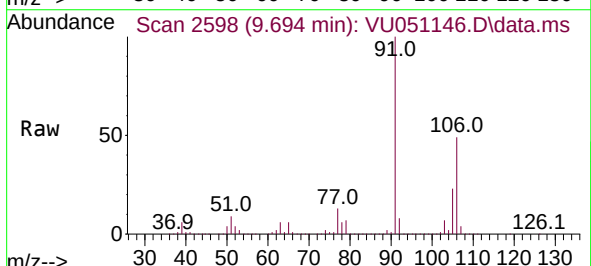
Instrument :
MSVOA_U
ClientSampleId :
EXZ63

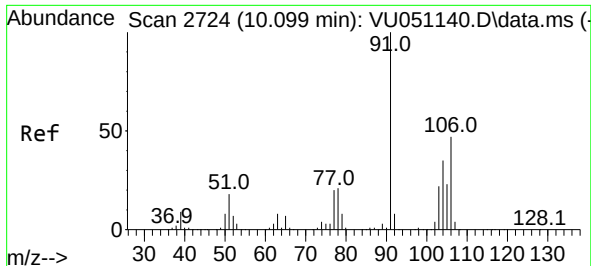
Tgt Ion: 91 Resp: 8328462
Ion Ratio Lower Upper
91 100
106 30.8 21.7 40.3



#53
m,p-Xylene
Concen: 916.874 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. 0.003 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

Tgt Ion: 106 Resp: 4070042
Ion Ratio Lower Upper
106 100
91 204.6 141.9 263.5

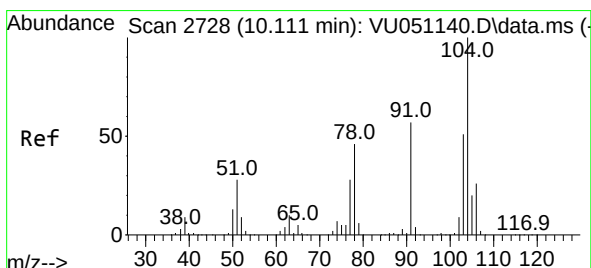
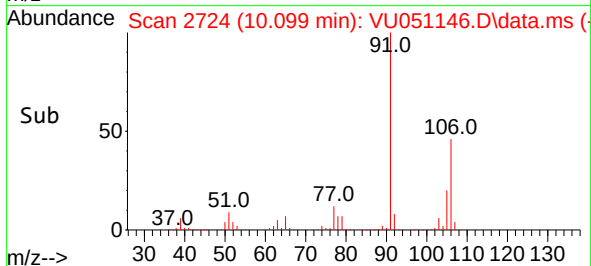
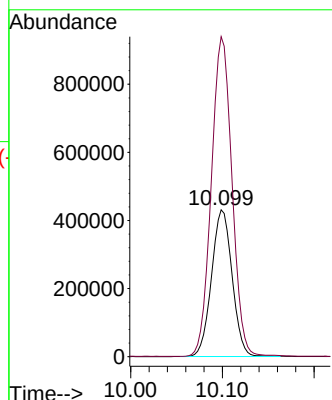
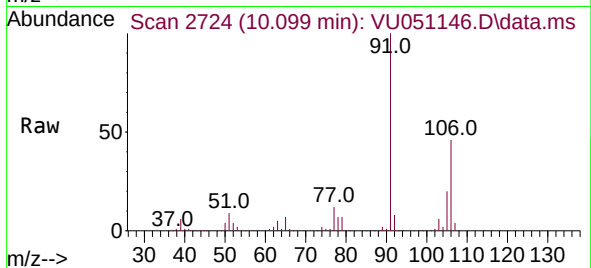




#54
o-Xylene
Concen: 151.596 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

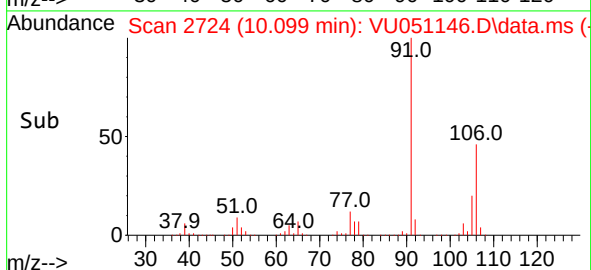
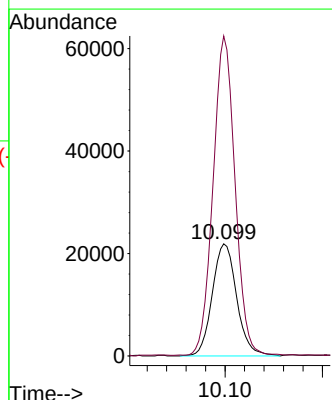
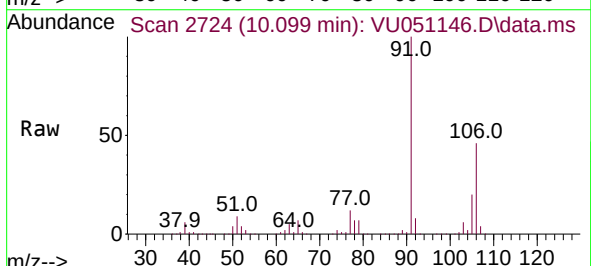
Instrument :
MSVOA_U
ClientSampleId :
EXZ63

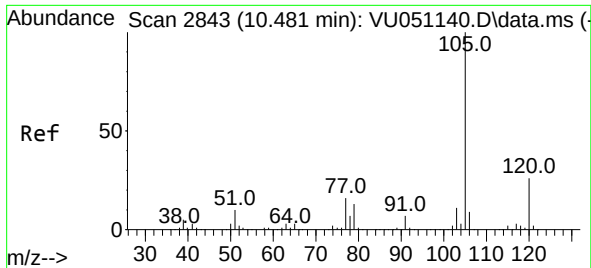
Tgt Ion:106 Resp: 672623
Ion Ratio Lower Upper
106 100
91 218.0 152.4 283.0



#55
Styrene
Concen: 4.969 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.013 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

Tgt Ion:104 Resp: 38102
Ion Ratio Lower Upper
104 100
78 285.1 31.0 57.6#

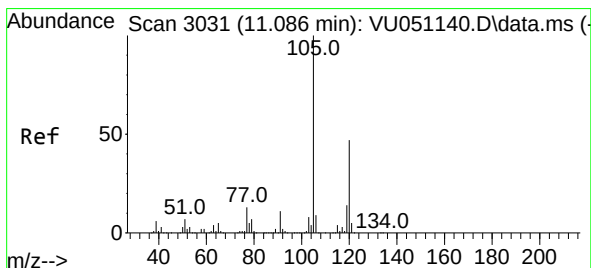
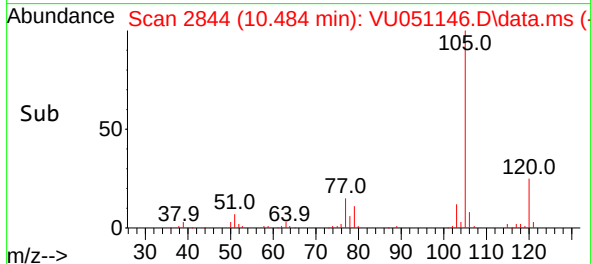
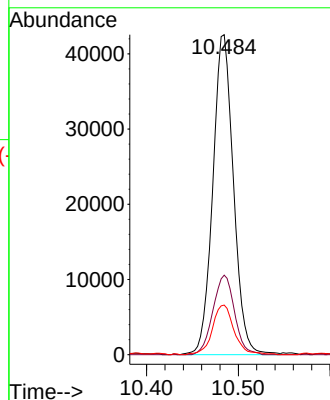
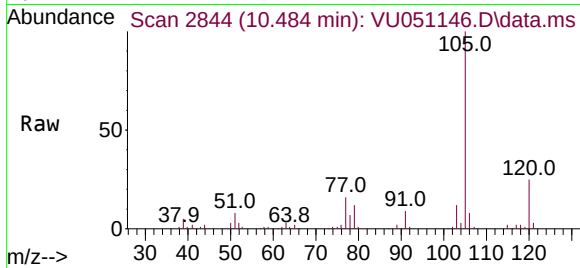




#61
Isopropylbenzene
Concen: 6.793 ug/L
RT: 10.484 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

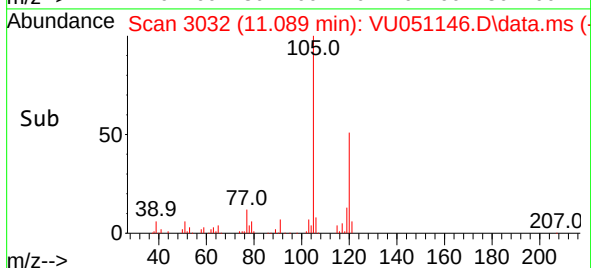
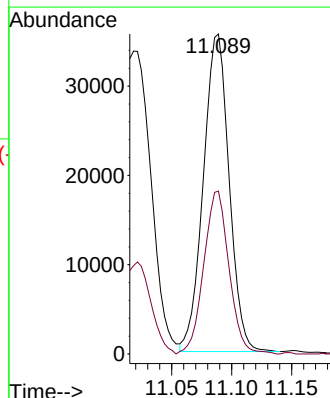
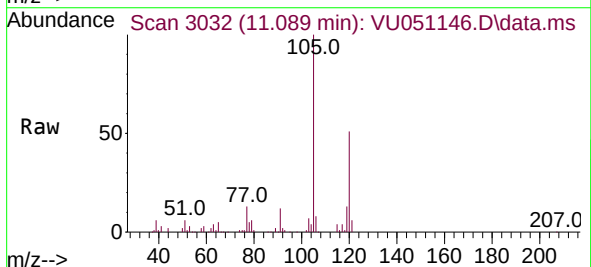
Instrument :
MSVOA_U
ClientSampleId :
EXZ63

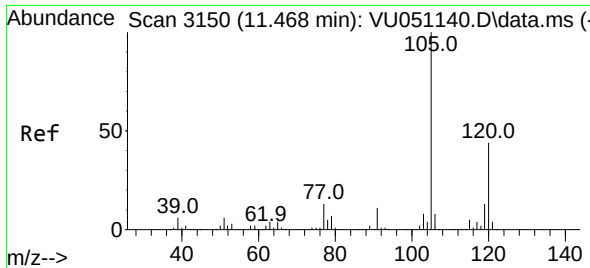
Tgt Ion:105 Resp: 66730
Ion Ratio Lower Upper
105 100
120 25.9 21.1 31.7
77 16.2 12.8 19.2



#62
1,3,5-Trimethylbenzene
Concen: 6.632 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. 0.003 min
Lab File: VU051146.D
Acq: 05 Oct 2022 23:30

Tgt Ion:105 Resp: 53274
Ion Ratio Lower Upper
105 100
120 50.3 37.8 56.8

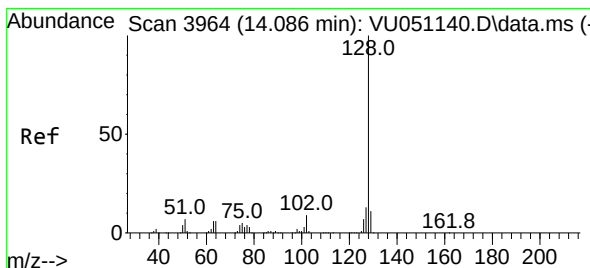
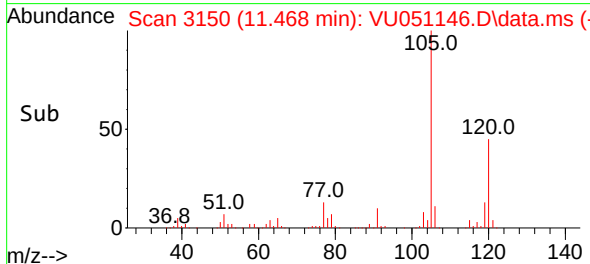
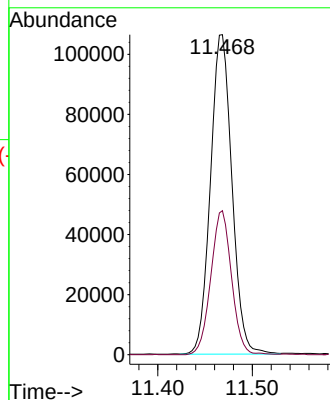
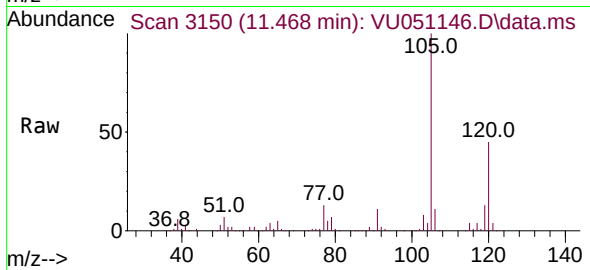




#63
 1,2,4-Trimethylbenzene
 Concen: 20.872 ug/L
 RT: 11.468 min Scan# 3150
 Delta R.T. 0.000 min
 Lab File: VU051146.D
 Acq: 05 Oct 2022 23:30

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ63

Tgt Ion:105 Resp: 168035
 Ion Ratio Lower Upper
 105 100
 120 43.2 35.5 53.3



#71
 Naphthalene
 Concen: 9.300 ug/L
 RT: 14.086 min Scan# 3964
 Delta R.T. 0.000 min
 Lab File: VU051146.D
 Acq: 05 Oct 2022 23:30

Tgt Ion:128 Resp: 93530
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.7 16.1
 129 10.8 8.6 13.0

