

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
 Data File : VU047647.D
 Acq On : 24 Mar 2022 21:08
 Operator : SY/MD
 Sample : N2081-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 24 23:50:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 24 23:34:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	172860	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	180903	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	112935	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	74608	59.519	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	119.040%
7) Chloroethane-d5	1.919	69	58208	58.891	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	117.780%
11) 1,1-Dichloroethene-d2	2.571	63	106656	46.505	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.020%
21) 2-Butanone-d5	4.639	46	137581	127.872	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	127.870%
24) Chloroform-d	5.066	84	136299	59.426	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	118.860%
26) 1,2-Dichloroethane-d4	5.703	65	86808	61.710	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	123.420%
32) Benzene-d6	5.729	84	278710	61.228	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	122.460%
36) 1,2-Dichloropropane-d6	6.693	67	86205	61.665	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	123.320%#
41) Toluene-d8	7.899	98	254594	57.405	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.820%
43) trans-1,3-Dichloroprop...	8.179	79	40700	57.467	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	114.940%
47) 2-Hexanone-d5	8.635	63	95915	117.202	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	117.200%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	138635	57.785	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	115.560%
66) 1,2-Dichlorobenzene-d4	12.192	152	121800	60.620	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	121.240%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	205145	131.244	ug/L	97
8) Chloroethane	1.938	64	58146	59.258	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1059	0.831	ug/L #	18
12) 1,1-Dichloroethene	2.584	96	14004	11.810	ug/L #	1
17) trans-1,2-Dichloroethene	3.359	96	7378	5.769	ug/L	94
19) 1,1-Dichloroethane	3.874	63	834767	378.453	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	885500	631.544	ug/L	96
27) 1,2-Dichloroethane	5.800	62	6440	3.510	ug/L	99
29) Cyclohexane	5.388	56	1716	0.935	ug/L #	38
30) 1,1,1-Trichloroethane	5.320	97	429008	209.144	ug/L	99
31) Carbon tetrachloride	5.320	117	57682	31.141	ug/L	98
33) Benzene	5.780	78	4376	0.836	ug/L	100
34) Trichloroethene	6.542	95	33887	24.685	ug/L	97
35) Methylcyclohexane	6.764	83	13274	6.356	ug/L	97
37) 1,2-Dichloropropane	6.693	63	9429	7.083	ug/L #	87
39) cis-1,3-Dichloropropene	7.568	75	2467	1.194	ug/L #	62
40) 4-Methyl-2-pentanone	7.796	43	3669	1.744	ug/L #	97
42) Toluene	7.970	91	95984	16.706	ug/L	99
44) trans-1,3-Dichloropropene	8.179	75	2070	1.004	ug/L	88

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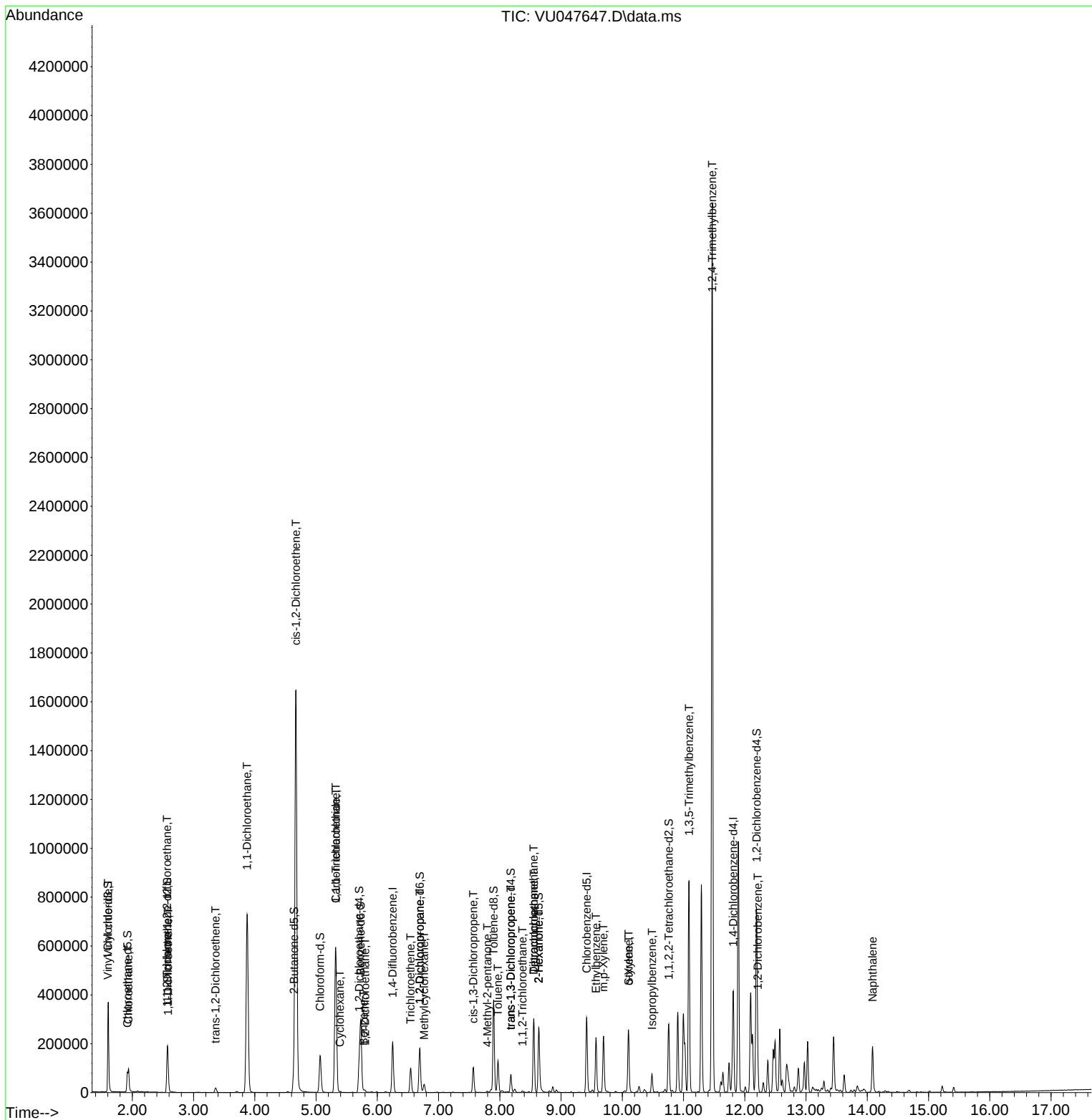
Quant Time: Mar 24 23:50:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
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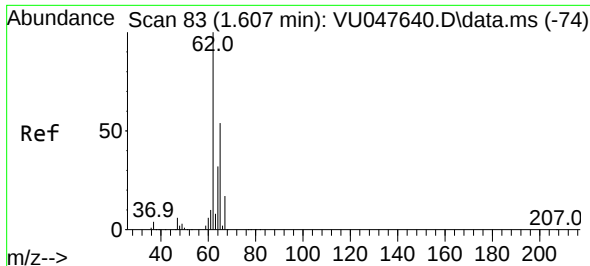
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	8.369	97	2684	1.901	ug/L #	19
46) Tetrachloroethene	8.555	164	70786	57.379	ug/L	99
48) 2-Hexanone	8.635	43	11426	6.314	ug/L #	66
49) Dibromochloromethane	8.552	129	63035	38.550	ug/L #	11
52) Ethylbenzene	9.571	91	157865	26.132	ug/L	100
53) m,p-Xylene	9.693	106	65970	27.830	ug/L	99
54) o-Xylene	10.102	106	71187	30.598	ug/L	100
55) Styrene	10.102	104	4356	1.097	ug/L #	1
61) Isopropylbenzene	10.484	105	50304	8.242	ug/L	98
62) 1,3,5-Trimethylbenzene	11.089	105	464245	140.186	ug/L	100
63) 1,2,4-Trimethylbenzene	11.468	105	1979953	393.605	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	8280	2.439	ug/L	97
71) Naphthalene	14.085	128	152650	21.216	ug/L	99

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

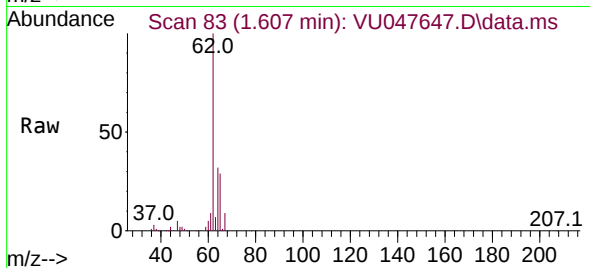
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 24 23:34:42 2022
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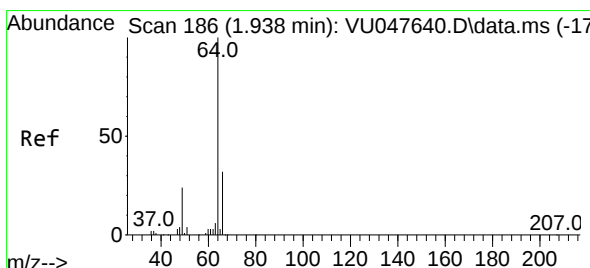
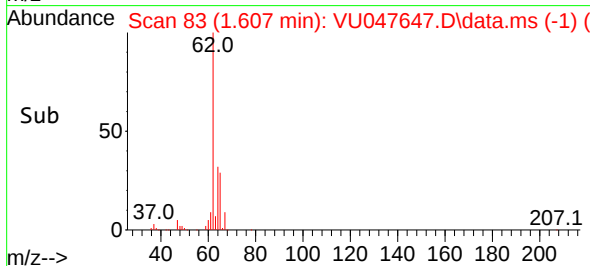
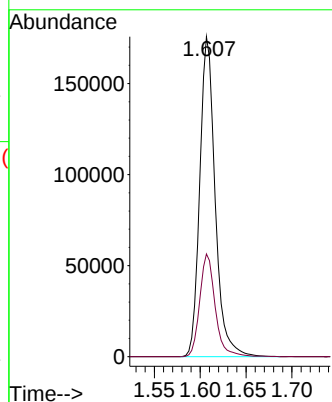


#5
 Vinyl chloride
 Concen: 131.244 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

Instrument :
 MSVOA_U
 ClientSampleId :

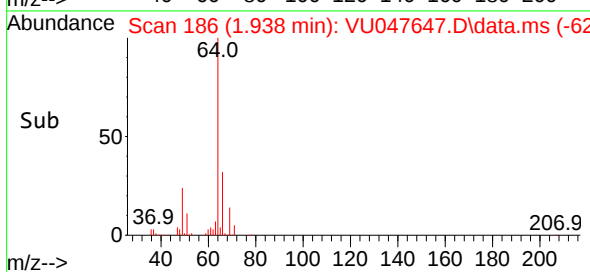
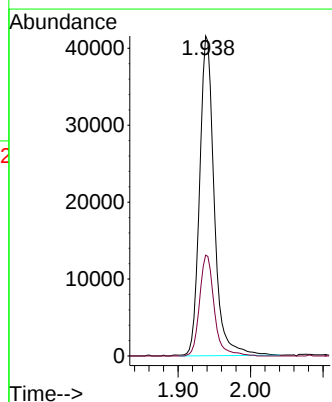
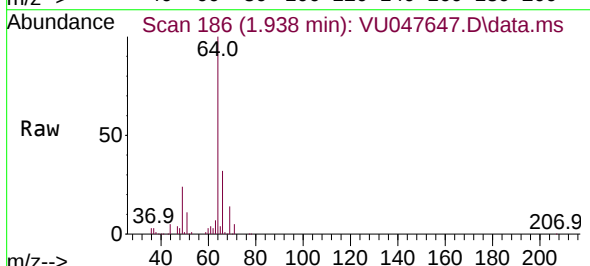


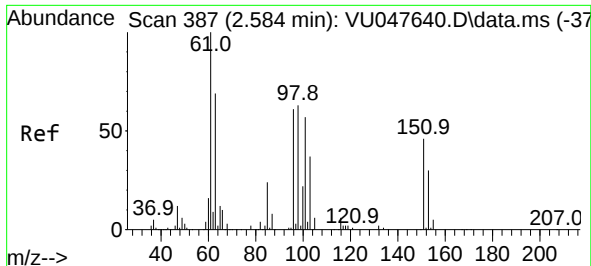
Tgt Ion: 62 Resp: 205145
 Ion Ratio Lower Upper
 62 100
 64 32.1 23.7 43.9



#8
 Chloroethane
 Concen: 59.258 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

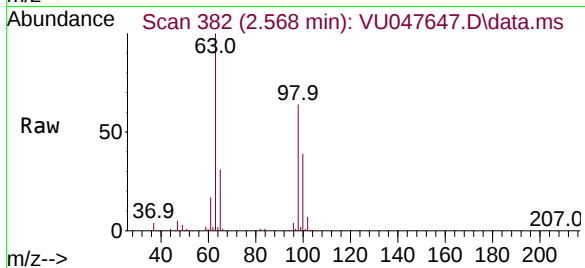
Tgt Ion: 64 Resp: 58146
 Ion Ratio Lower Upper
 64 100
 66 31.5 23.3 43.3



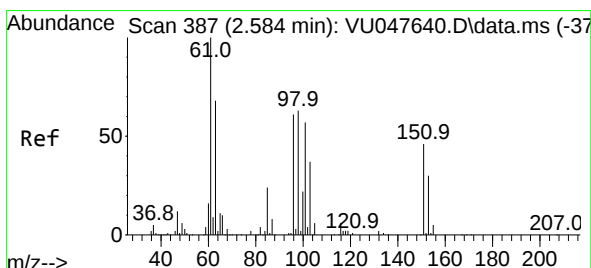
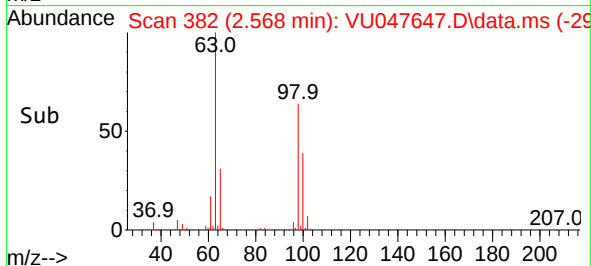
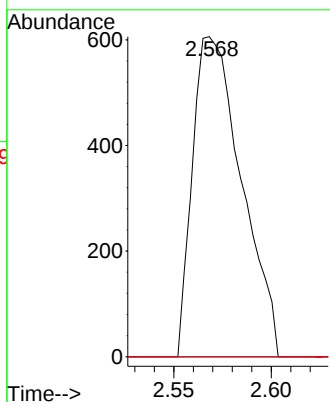


#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.831 ug/L
 RT: 2.568 min Scan# 31
 Delta R.T. -0.016 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

Instrument :
 MSVOA_U
 ClientSampleId :

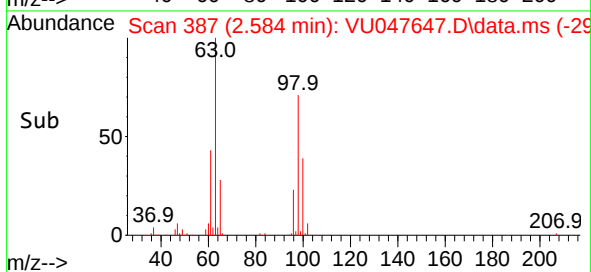
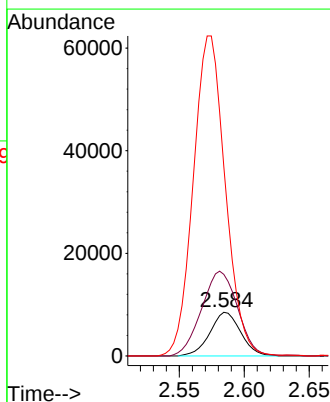
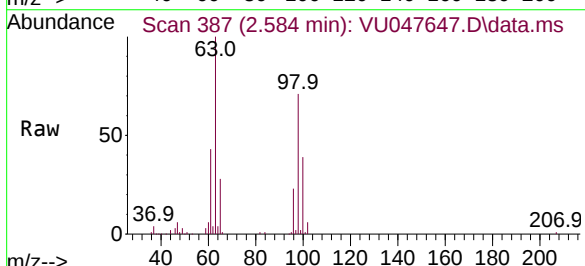


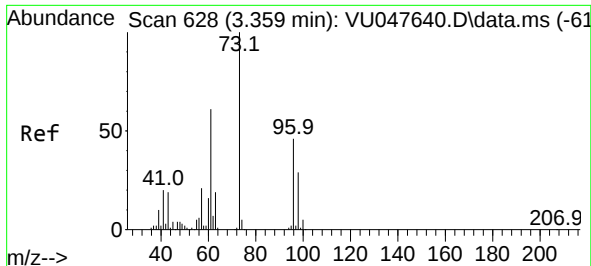
Tgt Ion:101 Resp: 1059
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.8 49.2#
 151 0.0 63.0 94.6#



#12
 1,1-Dichloroethene
 Concen: 11.810 ug/L
 RT: 2.584 min Scan# 387
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

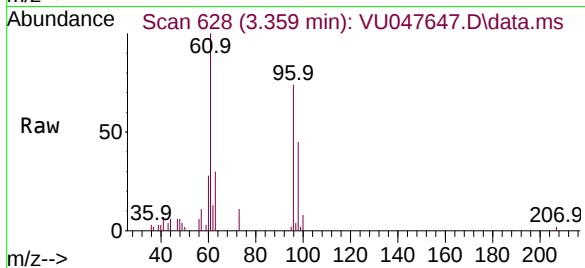
Tgt Ion: 96 Resp: 14004
 Ion Ratio Lower Upper
 96 100
 61 187.1 113.1 210.1
 63 434.7 94.8 176.0#



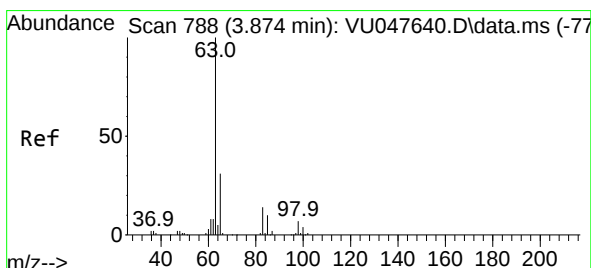
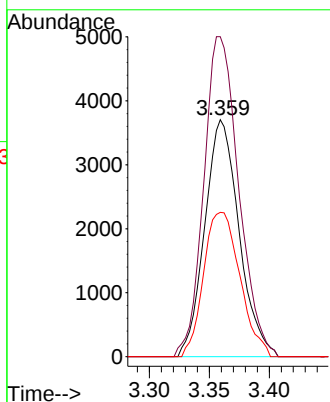
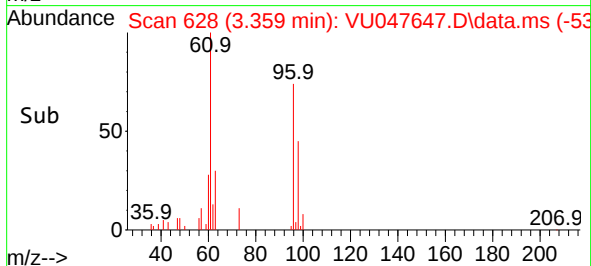


#17
trans-1,2-Dichloroethene
Concen: 5.769 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Instrument :
MSVOA_U
ClientSampleId :

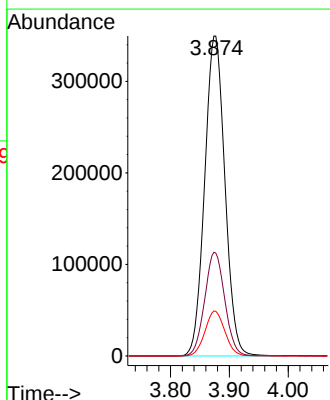
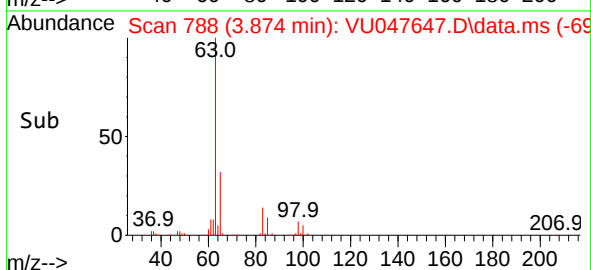
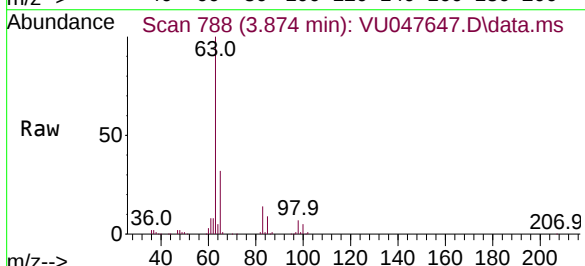


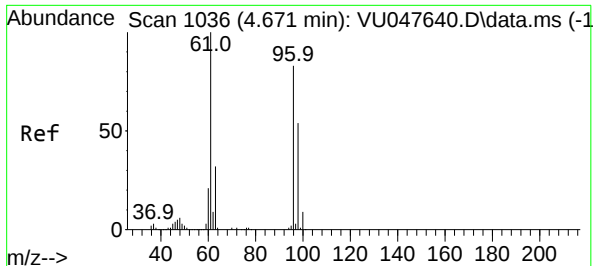
Tgt Ion: 96 Resp: 7378
Ion Ratio Lower Upper
96 100
61 135.0 88.4 164.2
98 60.9 43.3 80.5



#19
1,1-Dichloroethane
Concen: 378.453 ug/L
RT: 3.874 min Scan# 788
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion: 63 Resp: 834767
Ion Ratio Lower Upper
63 100
65 32.4 22.0 41.0
83 14.1 9.7 18.1

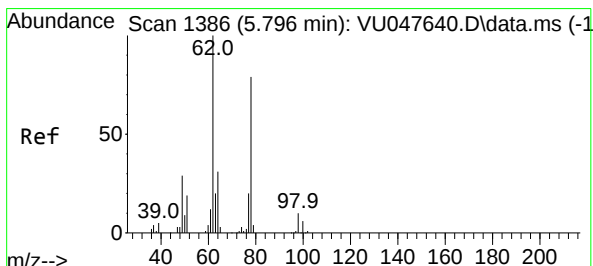
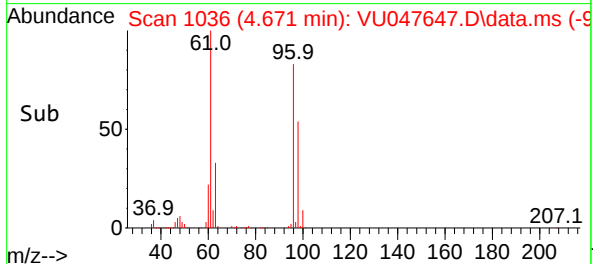
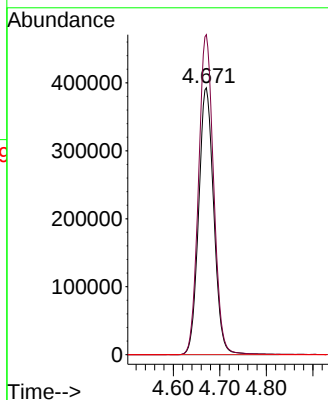
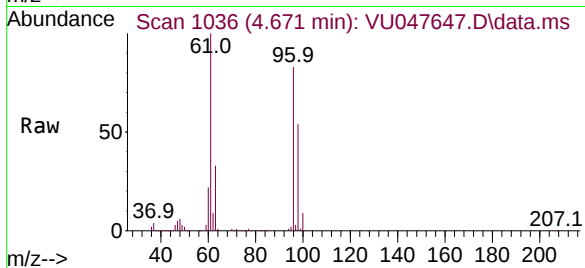




#20
 cis-1,2-Dichloroethene
 Concen: 631.544 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

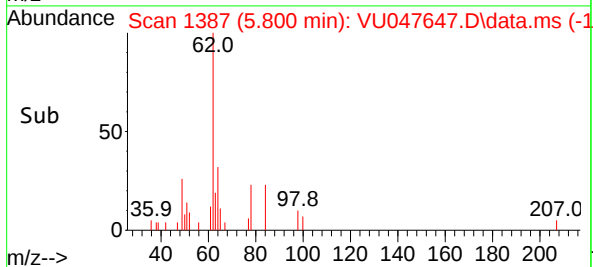
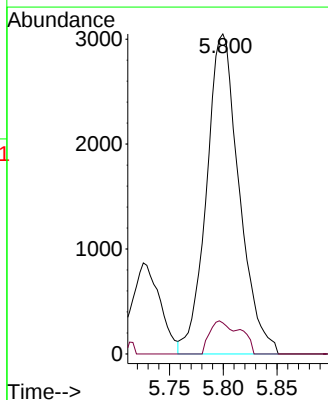
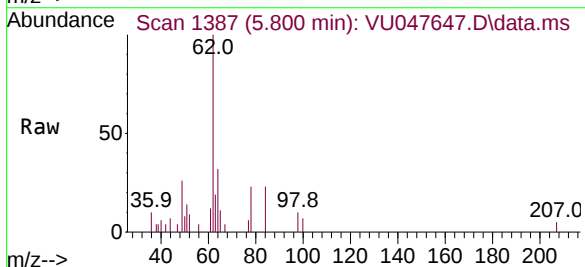
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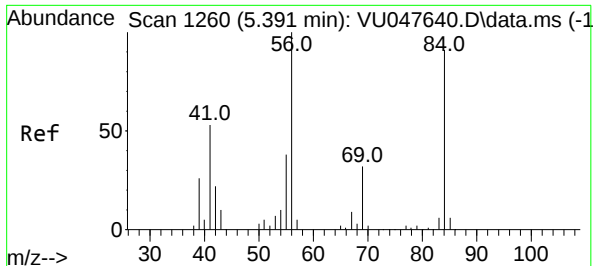
Tgt Ion: 96 Resp: 885500
 Ion Ratio Lower Upper
 96 100
 61 119.9 80.7 149.9
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 3.510 ug/L
 RT: 5.800 min Scan# 1387
 Delta R.T. 0.003 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

Tgt Ion: 62 Resp: 6440
 Ion Ratio Lower Upper
 62 100
 98 9.7 7.4 11.0





#29

Cyclohexane

Concen: 0.935 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. -0.003 min

Lab File: VU047647.D

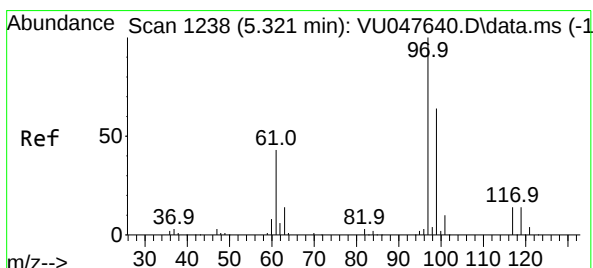
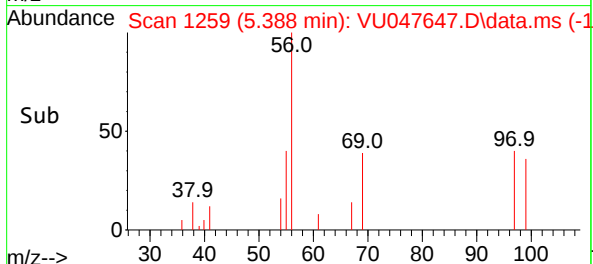
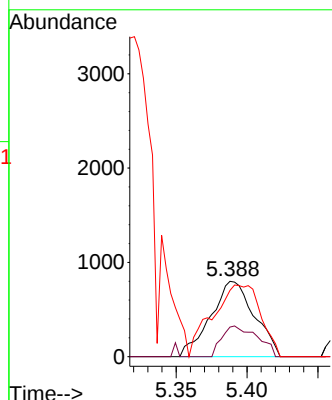
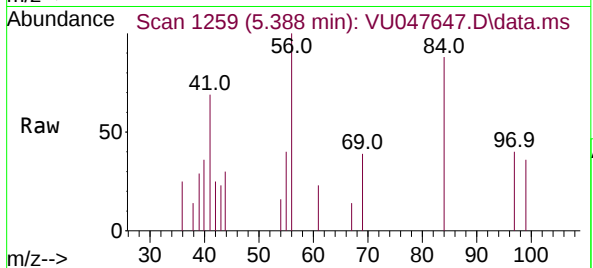
Acq: 24 Mar 2022 21:08

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 56	Resp: 1716
Ion Ratio	Lower Upper
56	100
69	22.8 25.4 38.2#
84	20.3 77.0 115.6#



#30

1,1,1-Trichloroethane

Concen: 209.144 ug/L

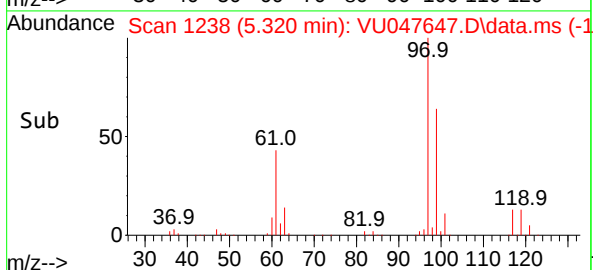
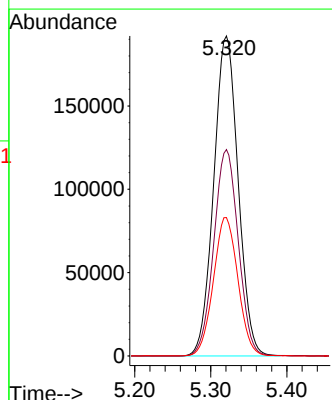
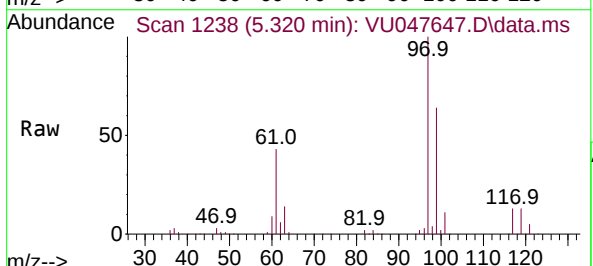
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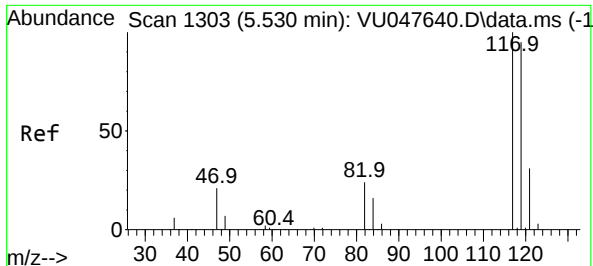
Delta R.T. -0.000 min

Lab File: VU047647.D

Acq: 24 Mar 2022 21:08

Tgt Ion: 97	Resp: 429008
Ion Ratio	Lower Upper
97	100
99	64.9 51.6 77.4
61	43.6 34.2 51.4

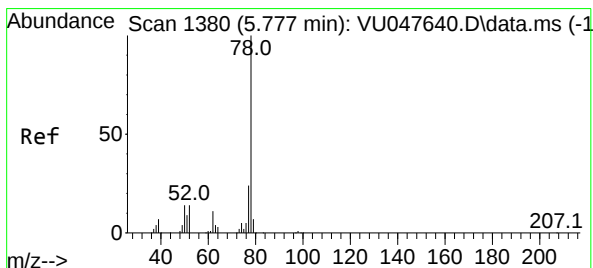
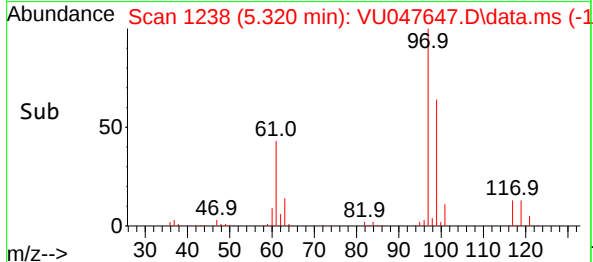
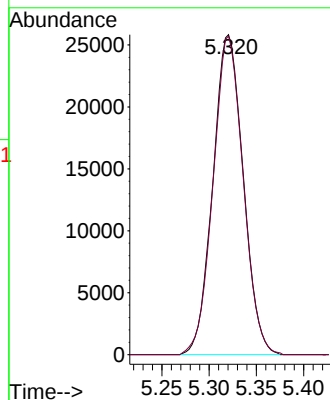
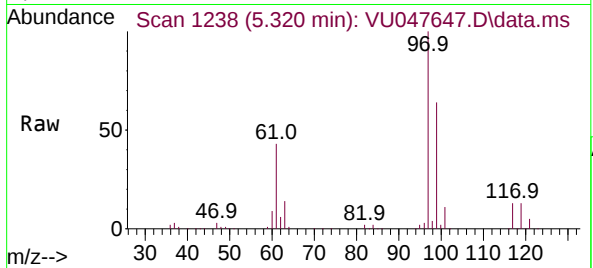




#31
Carbon tetrachloride
Concen: 31.141 ug/L
RT: 5.320 min Scan# 11
Delta R.T. -0.209 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

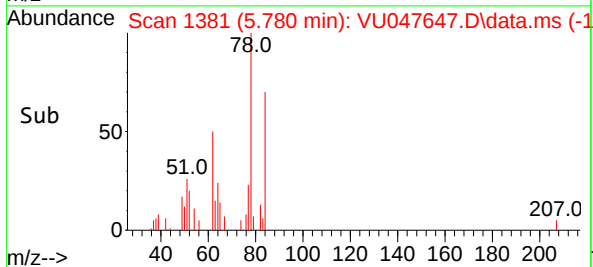
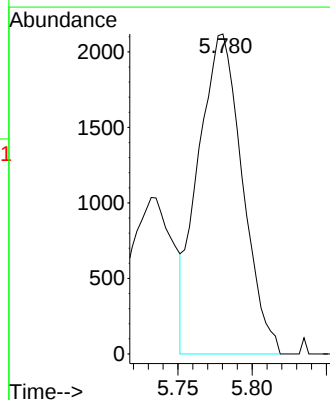
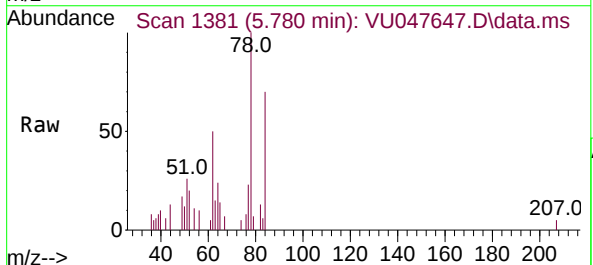
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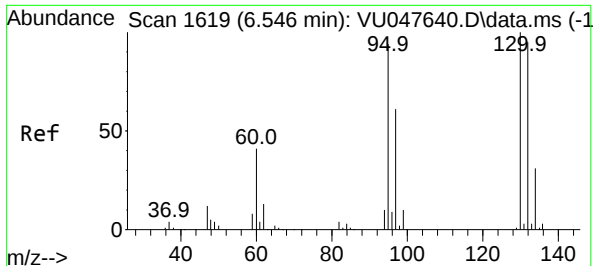
Tgt Ion:117 Resp: 57682
Ion Ratio Lower Upper
117 100
119 98.4 77.2 115.8



#33
Benzene
Concen: 0.836 ug/L
RT: 5.780 min Scan# 1381
Delta R.T. 0.003 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion: 78 Resp: 4376

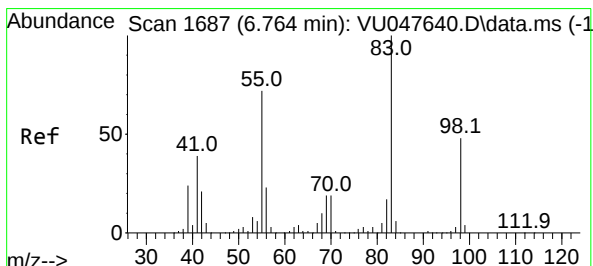
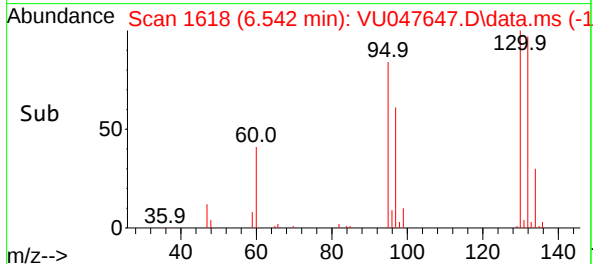
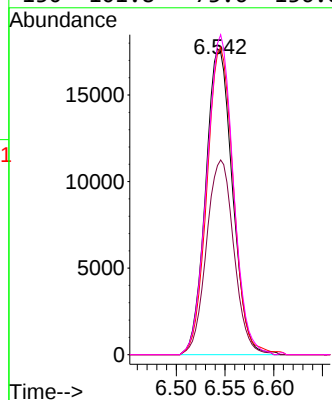
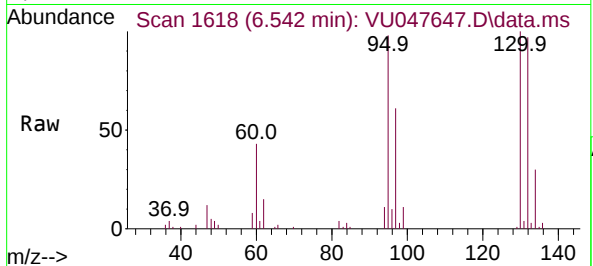




#34
Trichloroethene
Concen: 24.685 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. -0.003 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

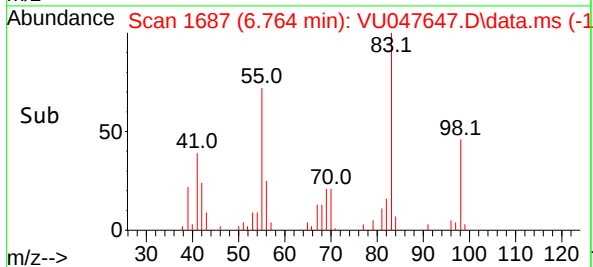
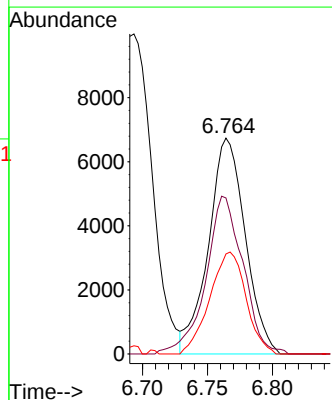
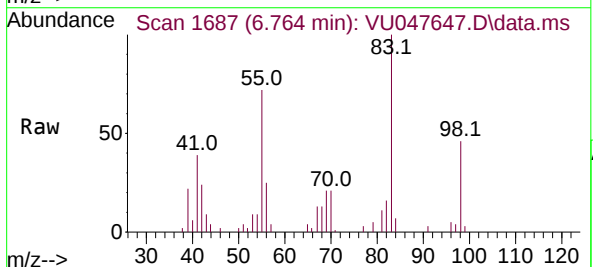
Instrument :
MSVOA_U
ClientSampleId :

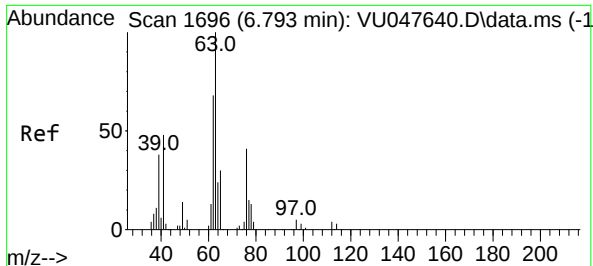
Tgt Ion: 95 Resp: 33887
Ion Ratio Lower Upper
95 100
97 61.8 44.7 82.9
132 98.5 70.4 130.8
130 101.8 73.6 136.8



#35
Methylcyclohexane
Concen: 6.356 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion: 83 Resp: 13274
Ion Ratio Lower Upper
83 100
55 73.7 56.8 85.2
98 46.6 38.1 57.1





#37

1,2-Dichloropropane

Concen: 7.083 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU047647.D

Acq: 24 Mar 2022 21:08

Instrument :

MSVOA_U

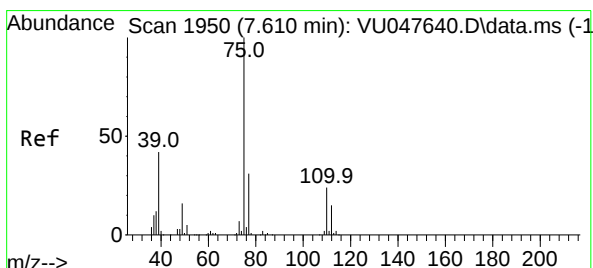
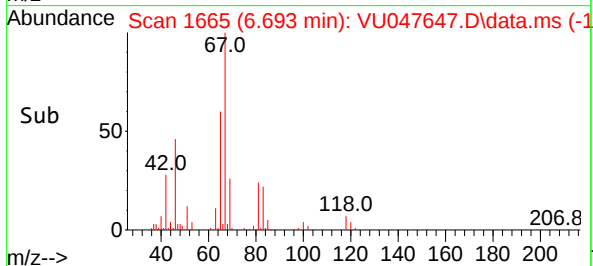
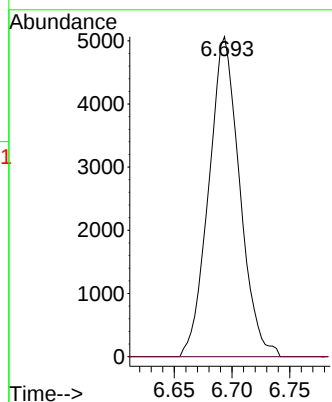
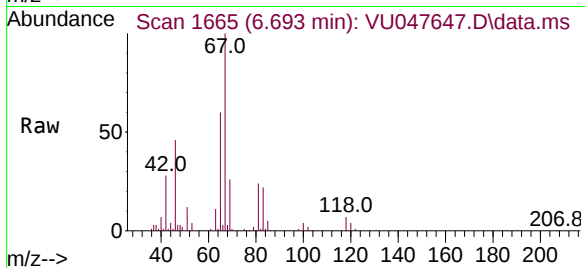
ClientSampleId :

Tgt Ion: 63 Resp: 9429

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#39

cis-1,3-Dichloropropene

Concen: 1.194 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU047647.D

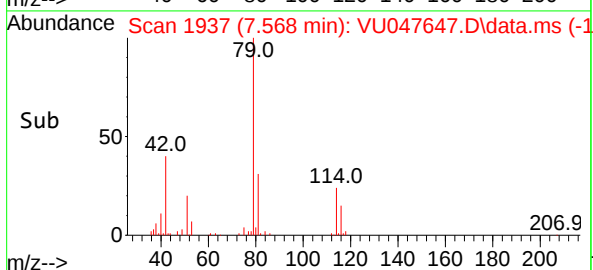
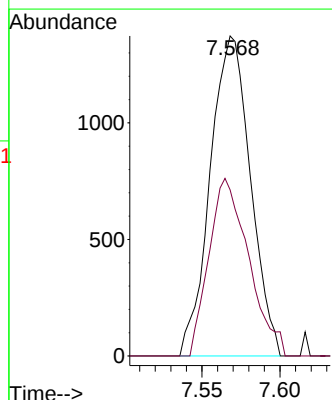
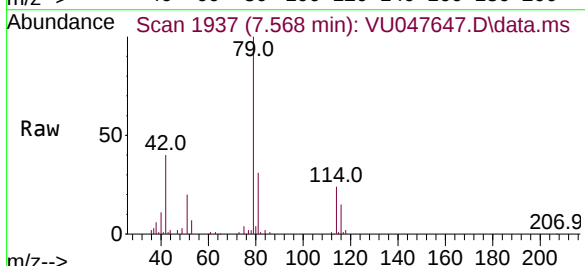
Acq: 24 Mar 2022 21:08

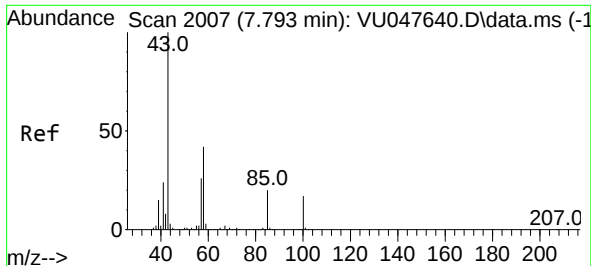
Tgt Ion: 75 Resp: 2467

Ion Ratio Lower Upper

75 100

77 51.9 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 1.744 ug/L

RT: 7.796 min Scan# 2007

Delta R.T. 0.003 min

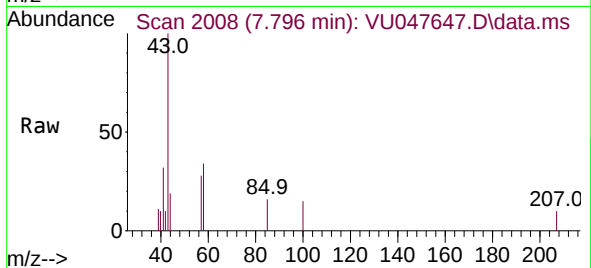
Lab File: VU047647.D

Acq: 24 Mar 2022 21:08

Instrument :

MSVOA_U

ClientSampleId :



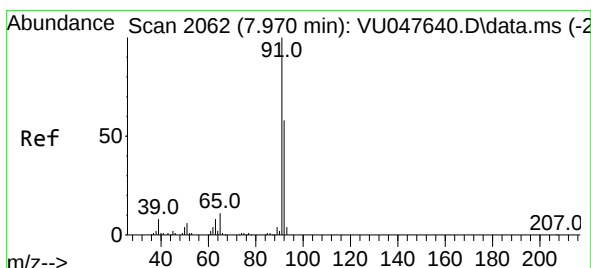
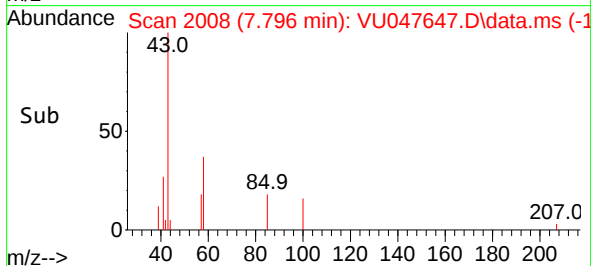
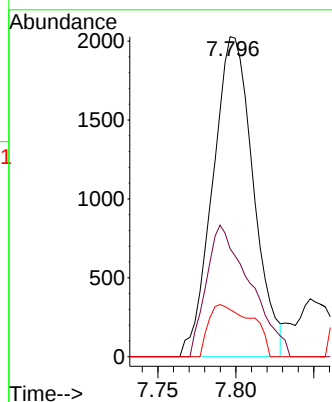
Tgt Ion: 43 Resp: 3669

Ion Ratio Lower Upper

43 100

58 44.2 34.7 52.1

100 14.1 14.2 21.2#



#42

Toluene

Concen: 16.706 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU047647.D

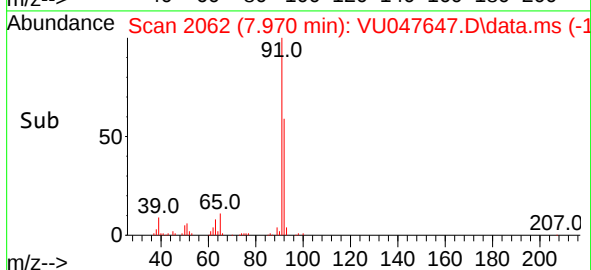
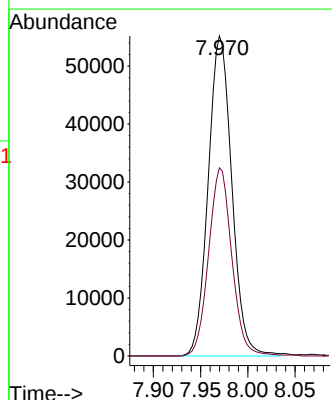
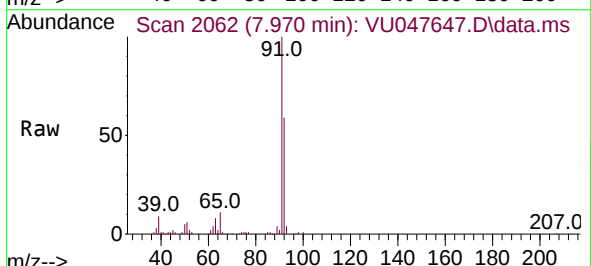
Acq: 24 Mar 2022 21:08

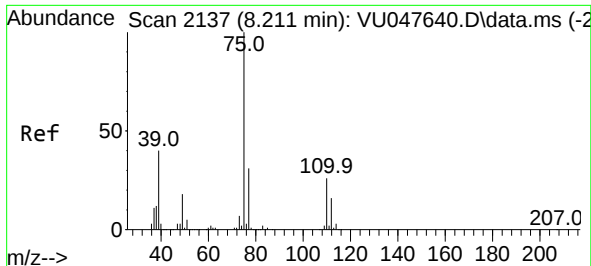
Tgt Ion: 91 Resp: 95984

Ion Ratio Lower Upper

91 100

92 58.8 40.4 75.0

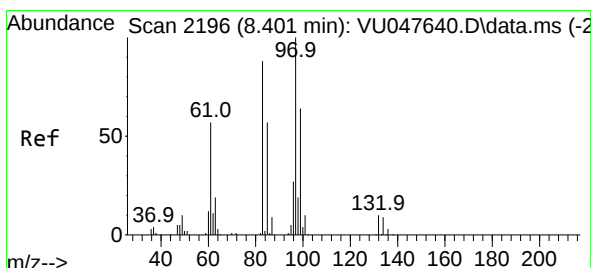
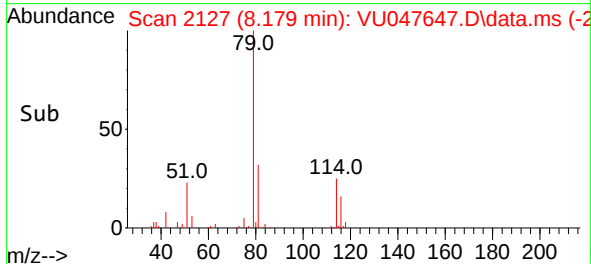
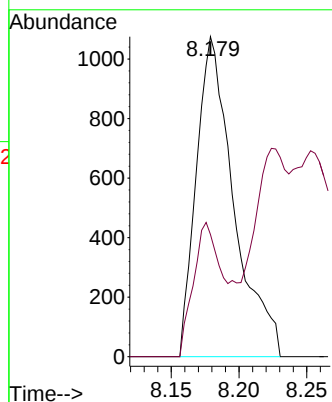
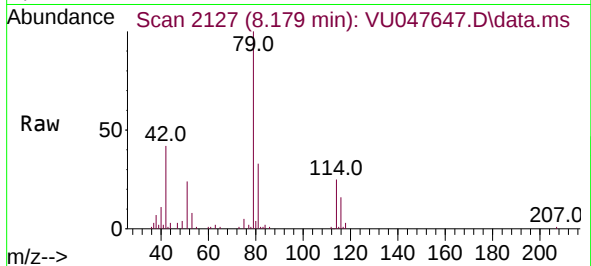




#44
trans-1,3-Dichloropropene
Concen: 1.004 ug/L
RT: 8.179 min Scan# 2137
Delta R.T. -0.032 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

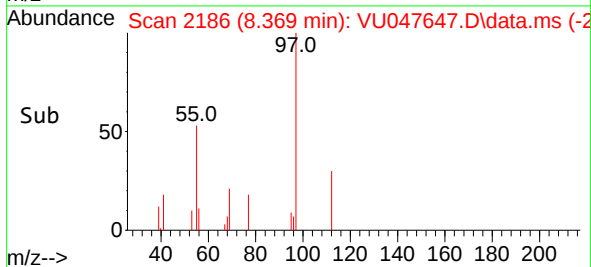
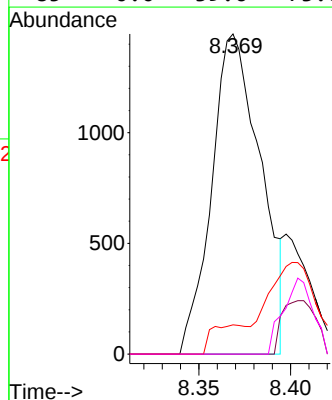
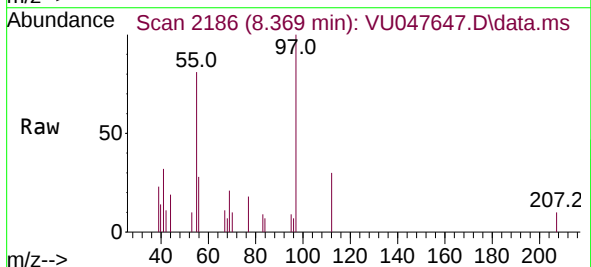
Instrument :
MSVOA_U
ClientSampleId :

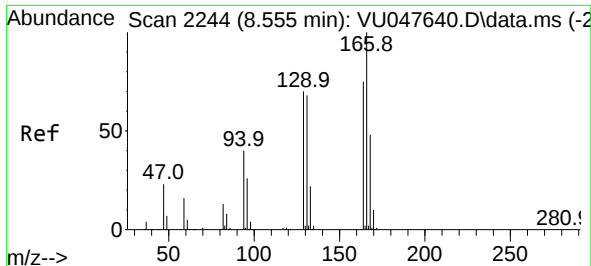
Tgt Ion: 75 Resp: 2070
Ion Ratio Lower Upper
75 100
77 38.2 22.0 40.8



#45
1,1,2-Trichloroethane
Concen: 1.901 ug/L
RT: 8.369 min Scan# 2186
Delta R.T. -0.032 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

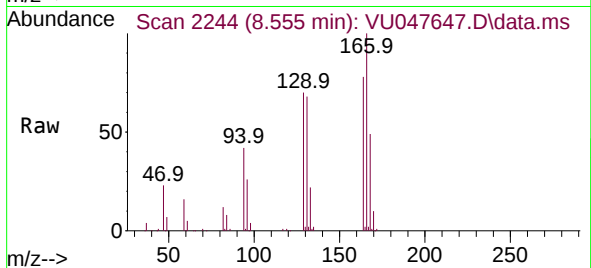
Tgt Ion: 97 Resp: 2684
Ion Ratio Lower Upper
97 100
99 0.0 43.3 80.3#
83 9.1 61.0 113.4#
85 0.0 39.6 73.6#



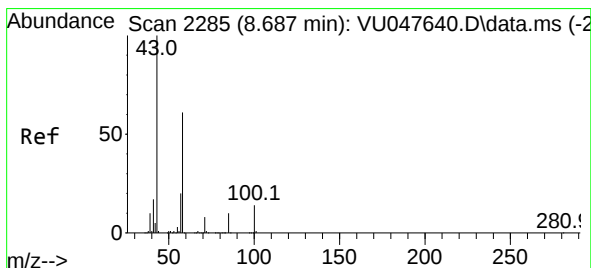
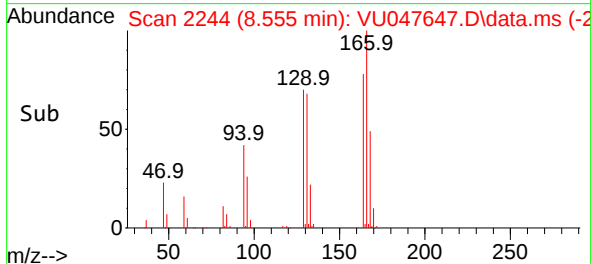
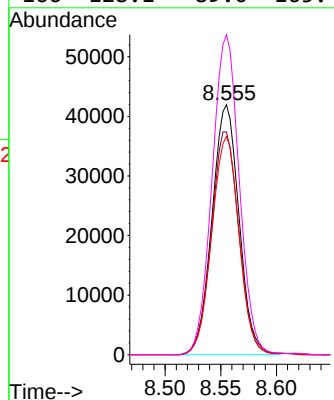


#46
Tetrachloroethene
Concen: 57.379 ug/L
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Instrument :
MSVOA_U
ClientSampleId :

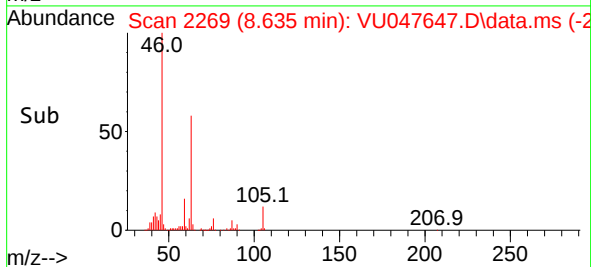
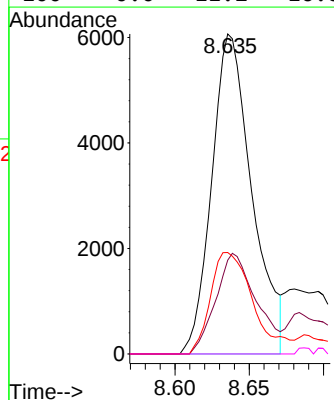
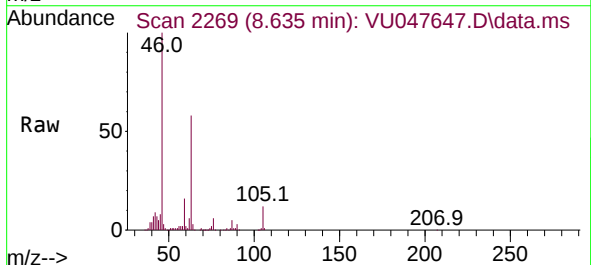


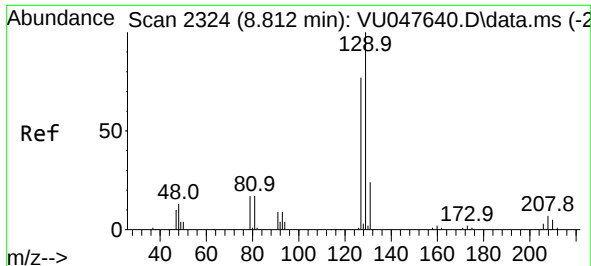
Tgt Ion:164 Resp: 70786
Ion Ratio Lower Upper
164 100
129 89.1 62.4 116.0
131 87.3 60.7 112.7
166 128.1 89.0 165.4



#48
2-Hexanone
Concen: 6.314 ug/L
RT: 8.635 min Scan# 2269
Delta R.T. -0.052 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion: 43 Resp: 11426
Ion Ratio Lower Upper
43 100
58 31.8 48.1 72.1#
57 32.0 16.2 24.4#
100 0.0 11.2 16.8#

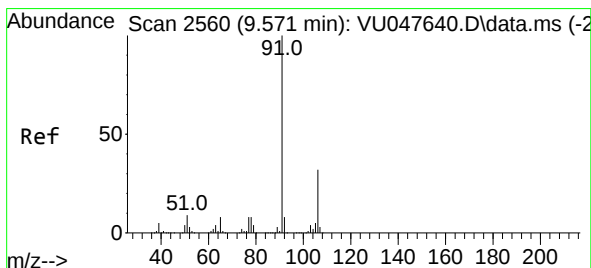
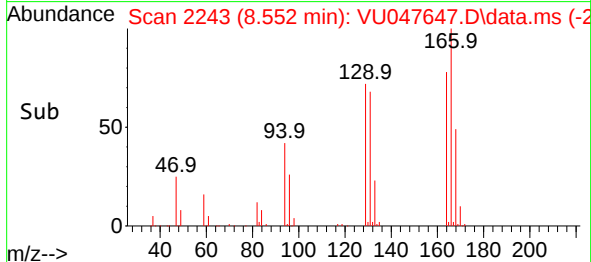
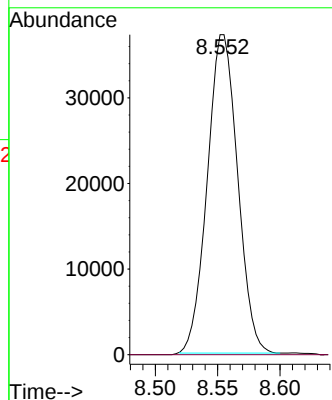
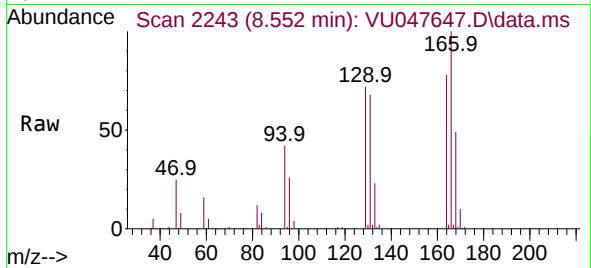




#49
Dibromochloromethane
Concen: 38.550 ug/L
RT: 8.552 min Scan# 21
Delta R.T. -0.261 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

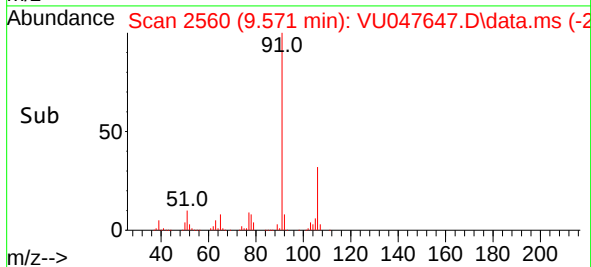
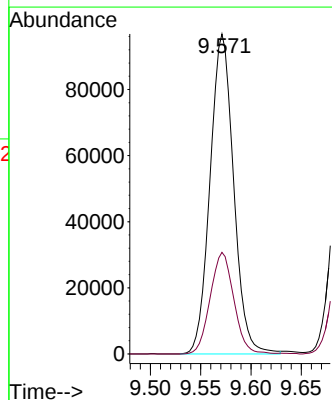
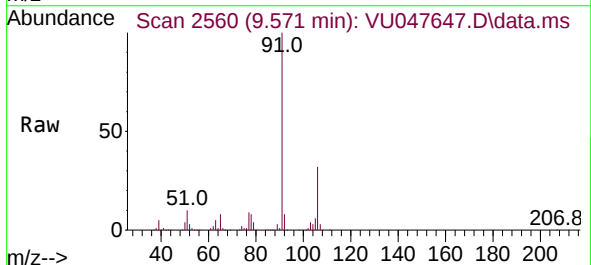
Instrument :
MSVOA_U
ClientSampleId :

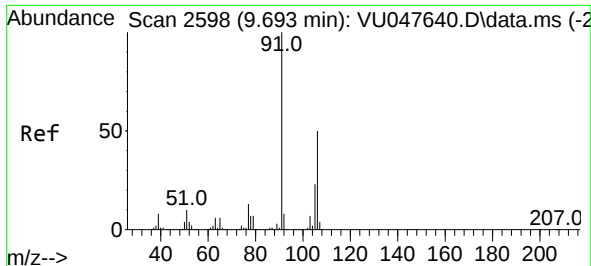
Tgt Ion:129 Resp: 63035
Ion Ratio Lower Upper
129 100
127 0.0 54.2 100.6#



#52
Ethylbenzene
Concen: 26.132 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion: 91 Resp: 157865
Ion Ratio Lower Upper
91 100
106 31.7 22.4 41.6

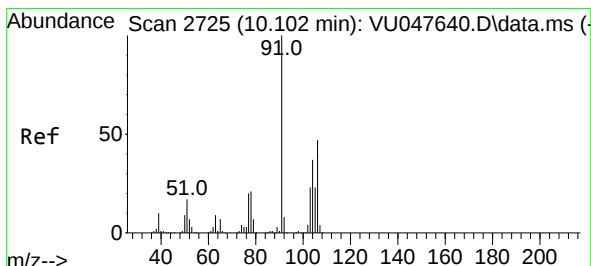
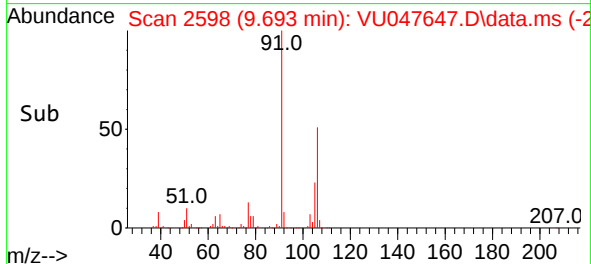
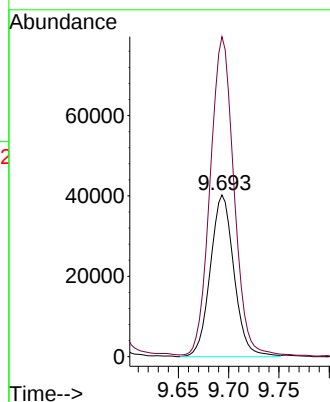
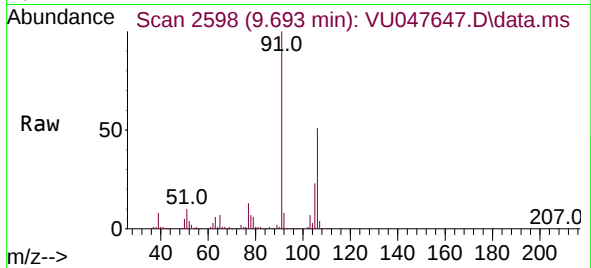




#53
m,p-Xylene
Concen: 27.830 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

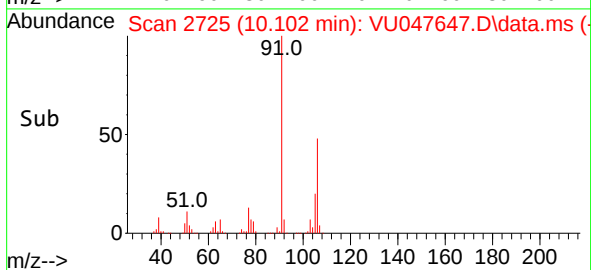
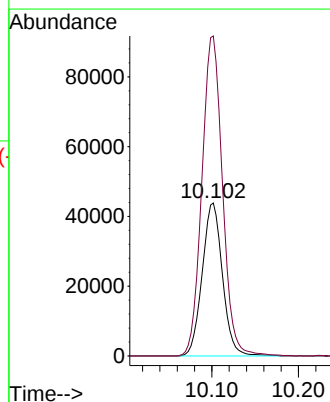
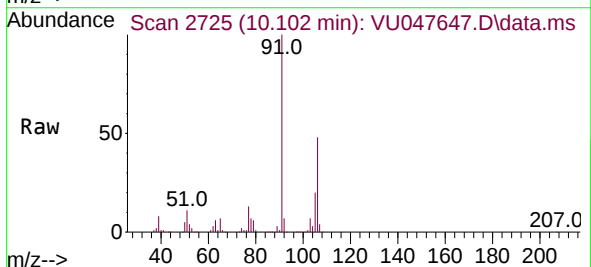
Instrument :
MSVOA_U
ClientSampleId :

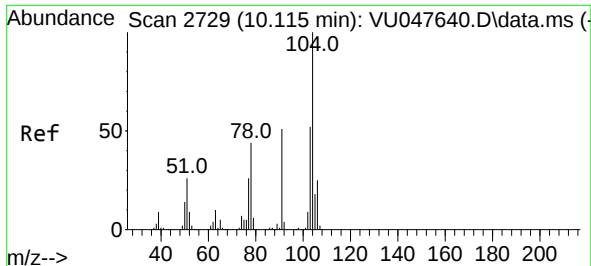
Tgt Ion:106 Resp: 65970
Ion Ratio Lower Upper
106 100
91 197.9 137.7 255.7



#54
o-Xylene
Concen: 30.598 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion:106 Resp: 71187
Ion Ratio Lower Upper
106 100
91 209.3 146.7 272.5

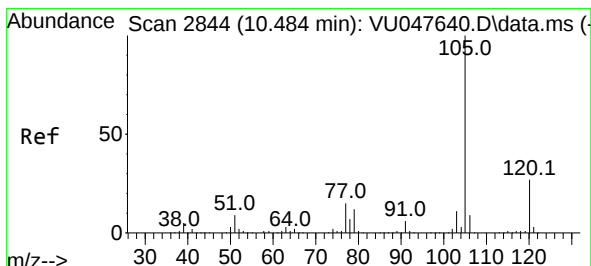
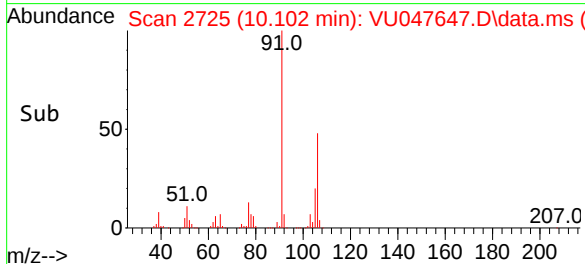
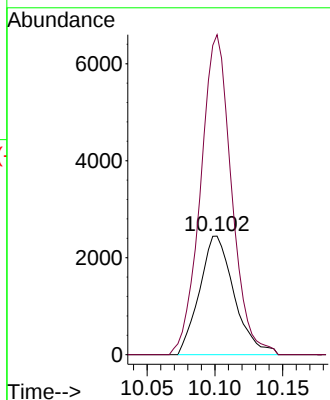
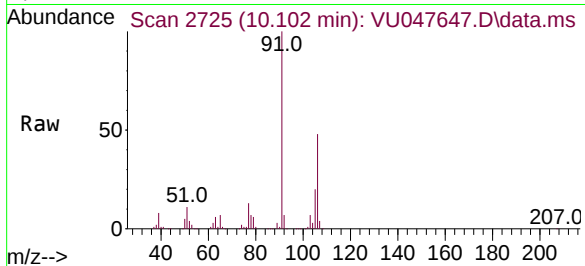




#55
Styrene
Concen: 1.097 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.013 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

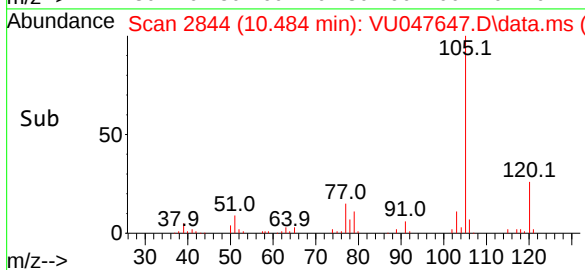
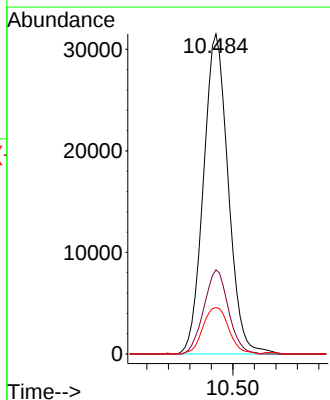
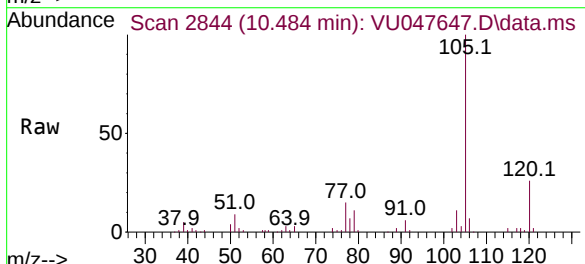
Instrument :
MSVOA_U
ClientSampleId :

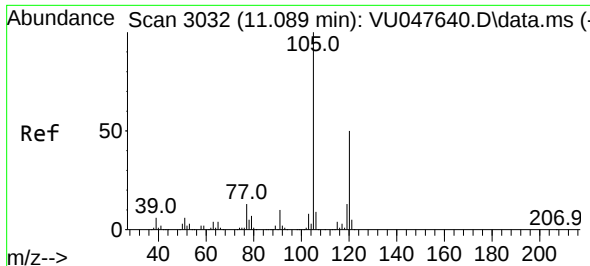
Tgt Ion:104 Resp: 4356
Ion Ratio Lower Upper
104 100
78 269.8 30.4 56.4#



#61
Isopropylbenzene
Concen: 8.242 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.000 min
Lab File: VU047647.D
Acq: 24 Mar 2022 21:08

Tgt Ion:105 Resp: 50304
Ion Ratio Lower Upper
105 100
120 26.1 21.9 32.9
77 15.2 12.1 18.1

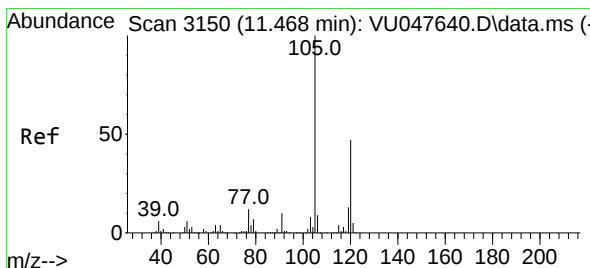
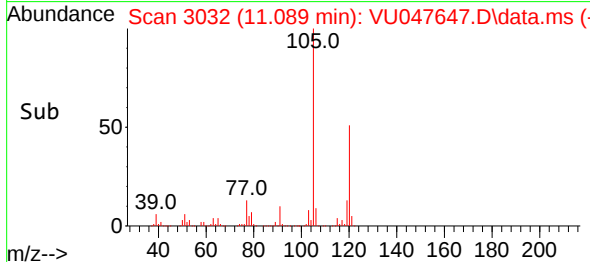
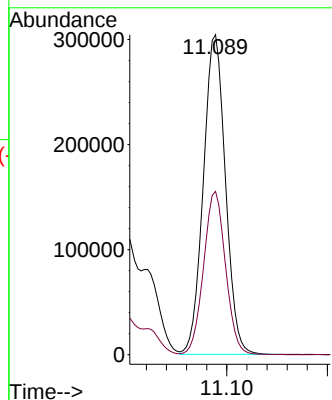
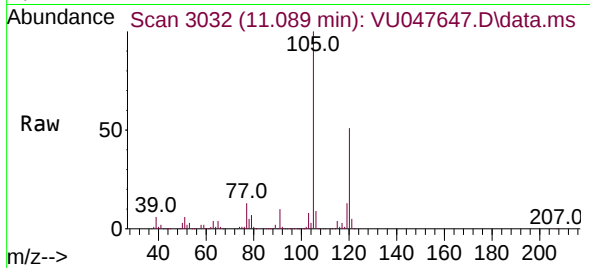




#62
 1,3,5-Trimethylbenzene
 Concen: 140.186 ug/L
 RT: 11.089 min Scan# 3032
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

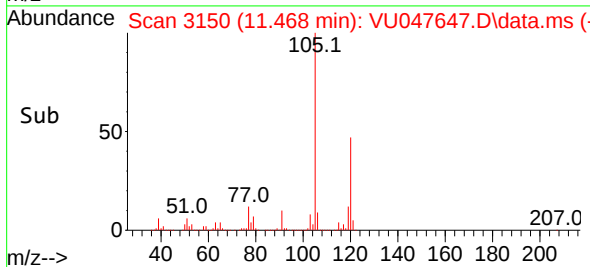
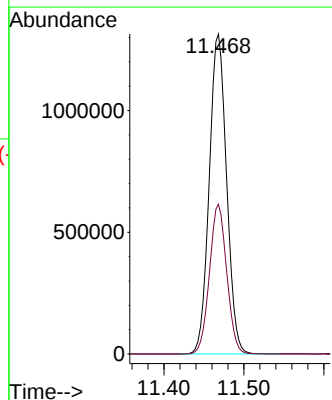
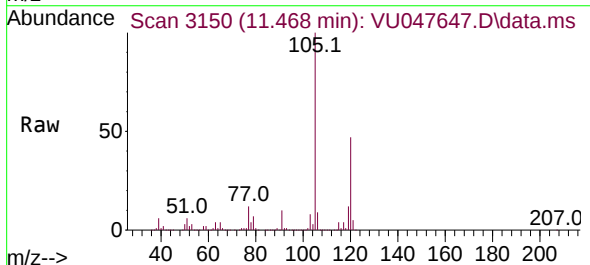
Instrument :
 MSVOA_U
 ClientSampleId :

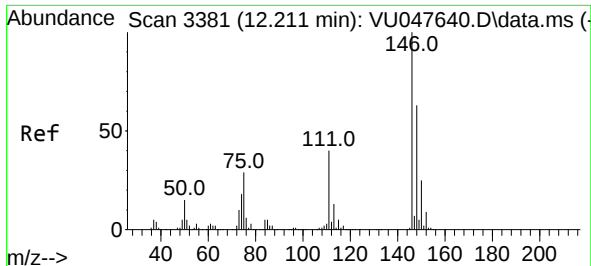
Tgt Ion:105 Resp: 464245
 Ion Ratio Lower Upper
 105 100
 120 50.8 40.8 61.2



#63
 1,2,4-Trimethylbenzene
 Concen: 393.605 ug/L
 RT: 11.468 min Scan# 3150
 Delta R.T. -0.000 min
 Lab File: VU047647.D
 Acq: 24 Mar 2022 21:08

Tgt Ion:105 Resp: 1979953
 Ion Ratio Lower Upper
 105 100
 120 46.5 37.6 56.4





#67

1,2-Dichlorobenzene

Concen: 2.439 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. -0.000 min

Lab File: VU047647.D

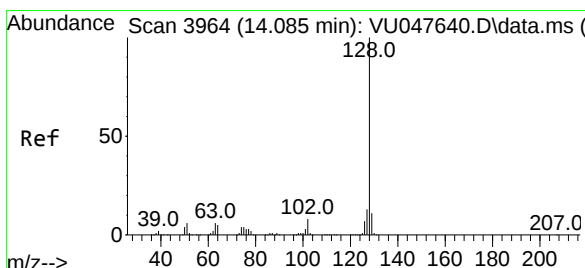
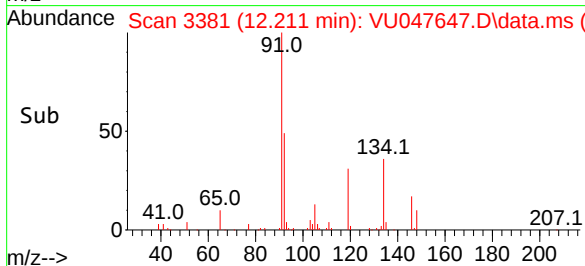
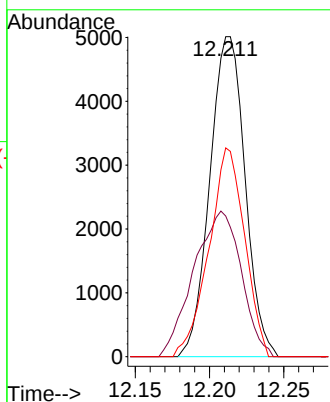
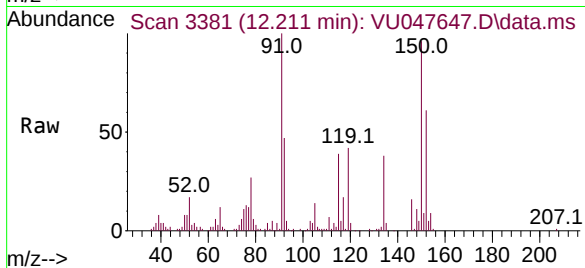
Acq: 24 Mar 2022 21:08

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:146	Resp:	8280
Ion Ratio	Lower	Upper
146	100	
111	44.0	31.7 47.5
148	65.3	51.4 77.2



#71

Naphthalene

Concen: 21.216 ug/L

RT: 14.085 min Scan# 3964

Delta R.T. -0.000 min

Lab File: VU047647.D

Acq: 24 Mar 2022 21:08

Tgt Ion:128	Resp:	152650
Ion Ratio	Lower	Upper
128	100	
127	13.3	10.2 15.2
129	10.8	8.8 13.2

