

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120721\
 Data File : VU046140.D
 Acq On : 07 Dec 2021 15:03
 Operator : SY/MD
 Sample : M4960-11
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BGKS4

Quant Time: Dec 08 04:53:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	50717	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	48849	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	27458	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	86976	208.186	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	416.380%#
7) Chloroethane-d5	1.919	69	62616	195.206	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	390.420%#
11) 1,1-Dichloroethene-d2	2.571	63	118683	158.246	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	316.500%#
21) 2-Butanone-d5	4.636	46	189200	569.682	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	569.680%#
24) Chloroform-d	5.066	84	150297	215.426	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	430.860%#
26) 1,2-Dichloroethane-d4	5.703	65	96151	205.356	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	410.720%#
32) Benzene-d6	5.732	84	321162	229.385	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	458.780%#
36) 1,2-Dichloropropane-d6	6.693	67	97495	224.687	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	449.380%#
41) Toluene-d8	7.899	98	300055	235.377	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	470.760%#
43) trans-1,3-Dichloroprop...	8.179	79	48799	232.970	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	465.940%#
47) 2-Hexanone-d5	8.632	63	141768	689.081	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	689.080%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	145576	221.224	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	442.440%#
66) 1,2-Dichlorobenzene-d4	12.195	152	116344	220.018	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	440.040%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	33335	66.986	ug/L #	6
13) Acetone	2.652	43	263183	634.067	ug/L	98
14) Carbon disulfide	2.803	76	5880	5.404	ug/L #	93
16) Methylene chloride	3.050	84	2156	5.167	ug/L	90
17) trans-1,2-Dichloroethene	3.359	96	7007	18.881	ug/L	97
19) 1,1-Dichloroethane	3.874	63	63734	94.454	ug/L	97
20) cis-1,2-Dichloroethene	4.671	96	640965	1591.758	ug/L	98
22) 2-Butanone	4.716	43	176006	389.527	ug/L	91
27) 1,2-Dichloroethane	5.796	62	81076	145.734	ug/L	98
33) Benzene	5.777	78	1587870	1073.993	ug/L	100
34) Trichloroethene	6.546	95	11632	29.865	ug/L	98
40) 4-Methyl-2-pentanone	7.793	43	49864	87.629	ug/L	98
42) Toluene	7.973	91	3350871	2112.200	ug/L	99
46) Tetrachloroethene	8.555	164	4253	14.859	ug/L	98
48) 2-Hexanone	8.687	43	19201	37.730	ug/L #	95
51) Chlorobenzene	9.449	112	27550	26.843	ug/L	99
52) Ethylbenzene	9.571	91	1443025	845.184	ug/L	98
53) m,p-Xylene	9.693	106	1401362	2104.644	ug/L	99
54) o-xylene	10.102	106	538881	834.069	ug/L	96

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

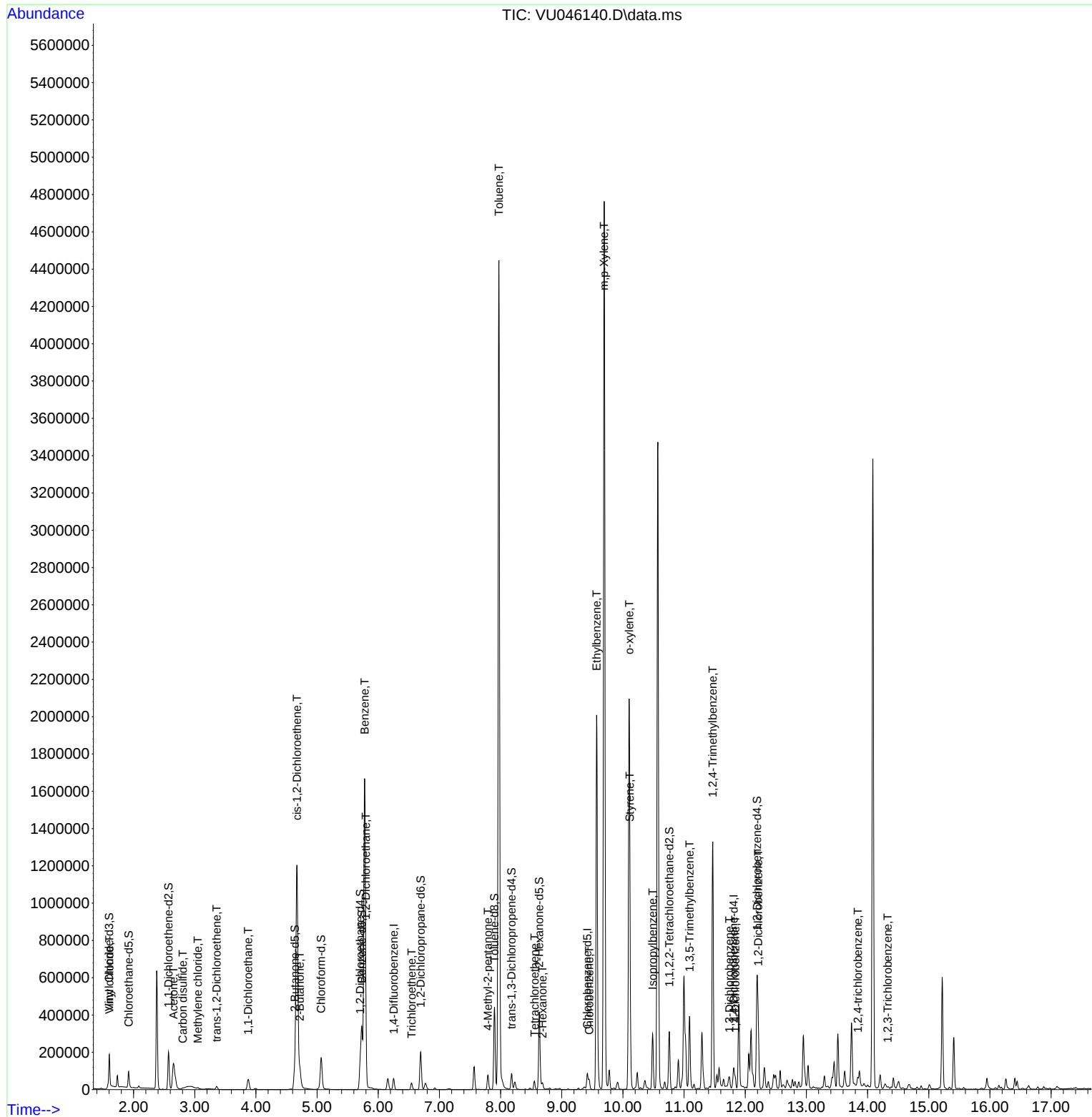
55) Styrene	10.115	104	181248	164.314	ug/L	80
61) Isopropylbenzene	10.484	105	199897	111.891	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	205146	137.766	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	735956	493.990	ug/L	99
64) 1,3-Dichlorobenzene	11.741	146	1010	1.190	ug/L	96
65) 1,4-Dichlorobenzene	11.838	146	23298	26.564	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	117156	137.090	ug/L	98
70) 1,2,4-trichlorobenzene	13.841	180	7872	14.346	ug/L #	96
72) 1,2,3-Trichlorobenzene	14.330	180	2339	4.180	ug/L #	76

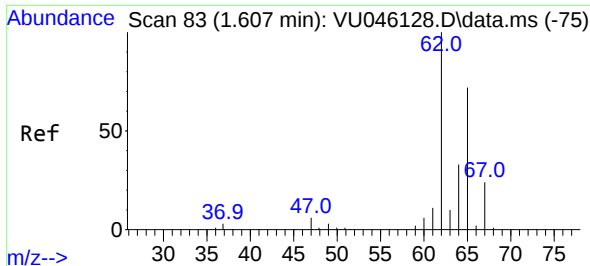
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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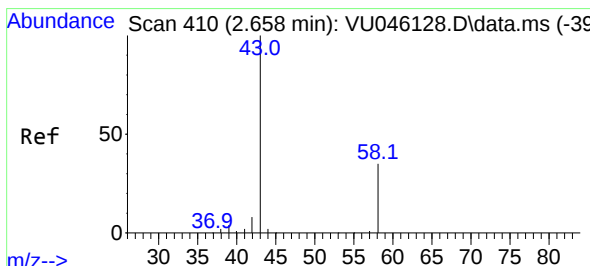
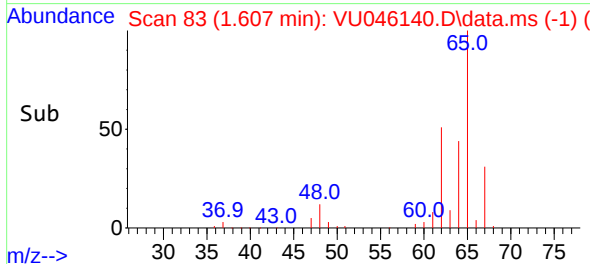
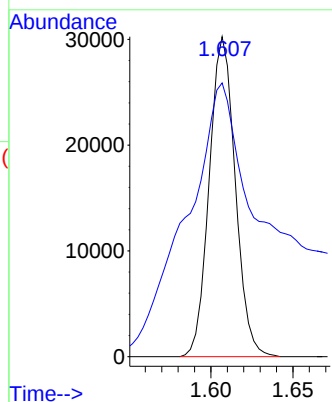
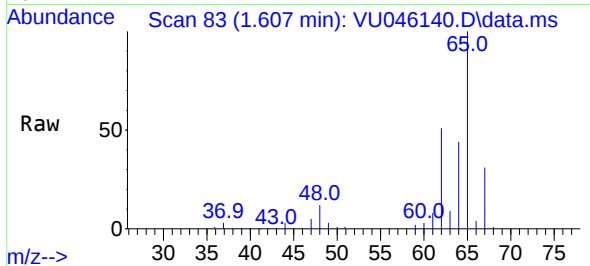




#5
 Vinyl chloride
 Concen: 66.986 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU046140.D
 Acq: 07 Dec 2021 15:03

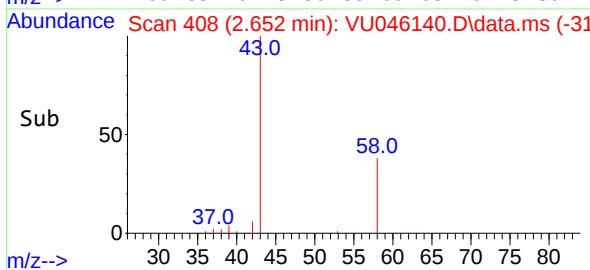
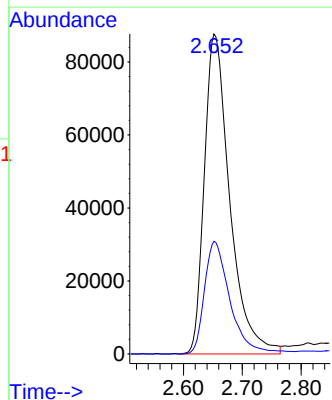
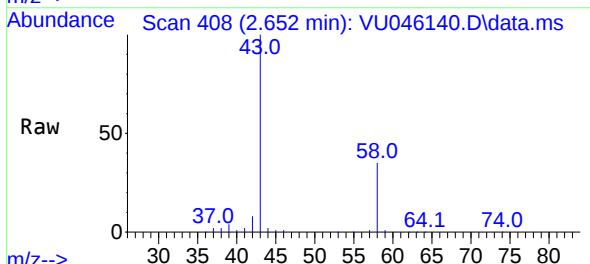
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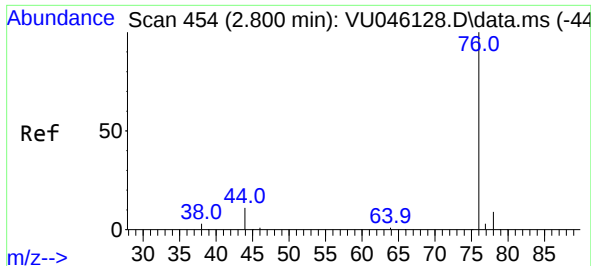
Tgt Ion: 62 Resp: 33335
 Ion Ratio Lower Upper
 62 100
 64 85.5 22.9 42.5#



#13
 Acetone
 Concen: 634.067 ug/L
 RT: 2.652 min Scan# 408
 Delta R.T. -0.010 min
 Lab File: VU046140.D
 Acq: 07 Dec 2021 15:03

Tgt Ion: 43 Resp: 263183
 Ion Ratio Lower Upper
 43 100
 58 34.8 0.0 66.8

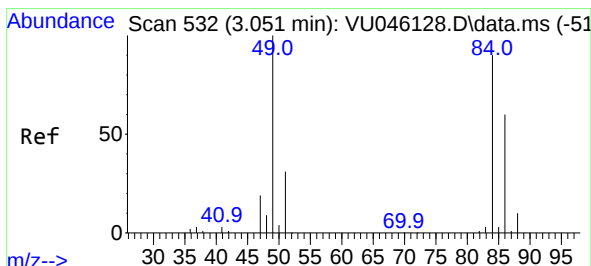
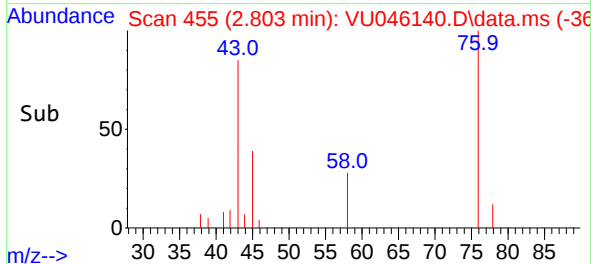
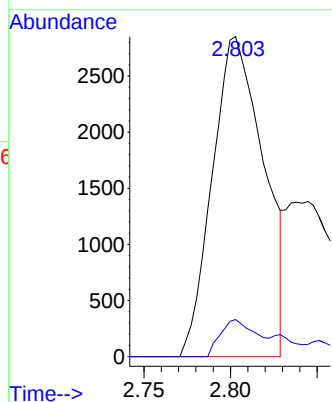
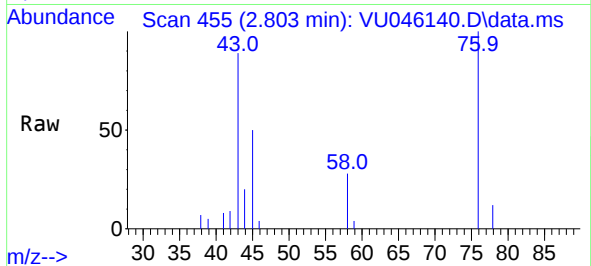




#14
Carbon disulfide
Concen: 5.404 ug/L
RT: 2.803 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

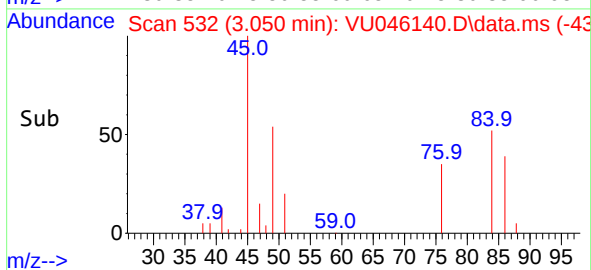
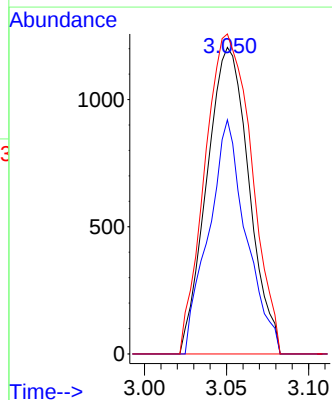
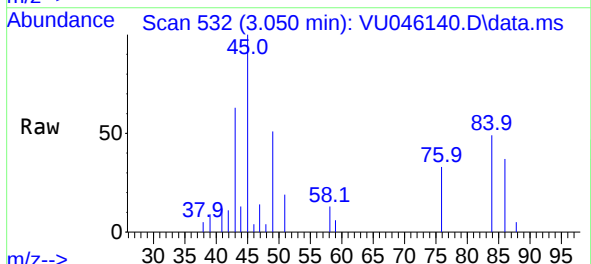
Instrument :
MSVOA_U
ClientSampleId :
BGKS4

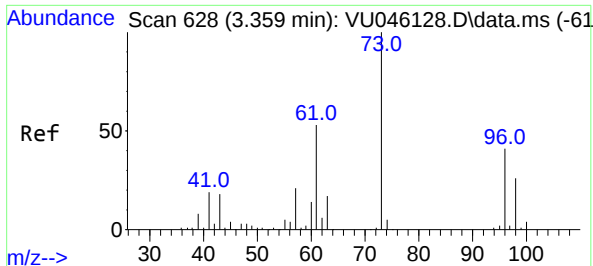
Tgt Ion: 76 Resp: 5880
Ion Ratio Lower Upper
76 100
78 11.6 7.3 10.9#



#16
Methylene chloride
Concen: 5.167 ug/L
RT: 3.050 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

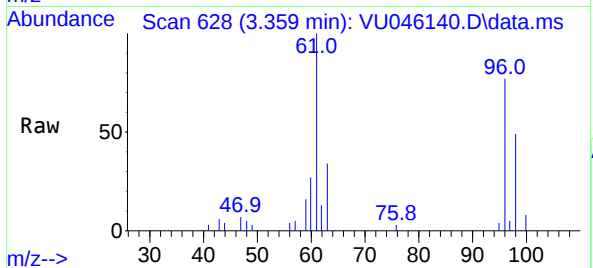
Tgt Ion: 84 Resp: 2156
Ion Ratio Lower Upper
84 100
86 76.3 44.7 83.1
49 104.4 78.4 145.6



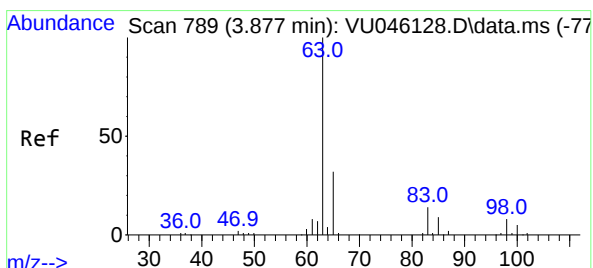
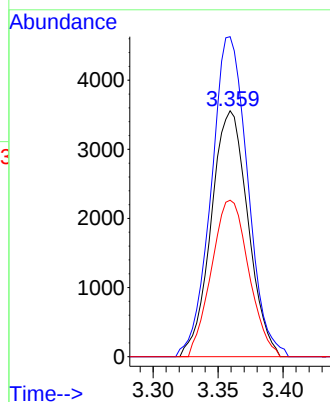
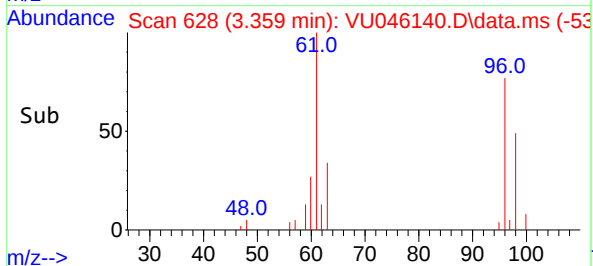


#17
trans-1,2-Dichloroethene
Concen: 18.881 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

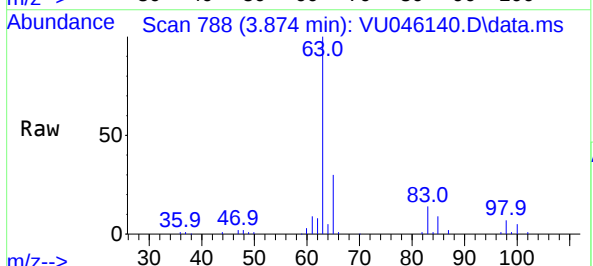
Instrument :
MSVOA_U
ClientSampleId :
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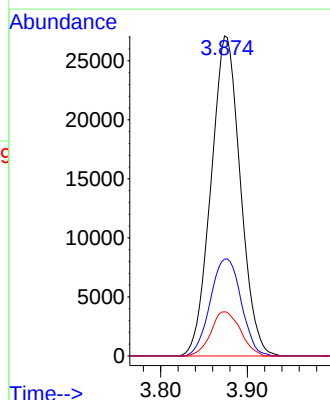
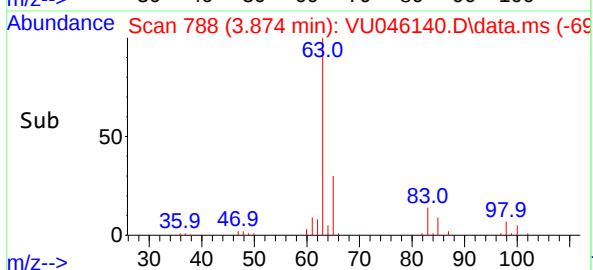
Tgt Ion: 96 Resp: 7007
Ion Ratio Lower Upper
96 100
61 130.1 94.6 175.6
98 63.7 44.0 81.8

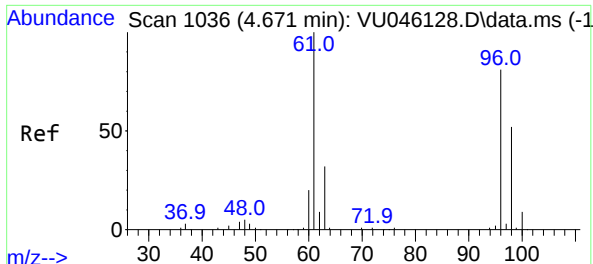


#19
1,1-Dichloroethane
Concen: 94.454 ug/L
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03



Tgt Ion: 63 Resp: 63734
Ion Ratio Lower Upper
63 100
65 30.2 22.8 42.4
83 13.8 9.6 17.8

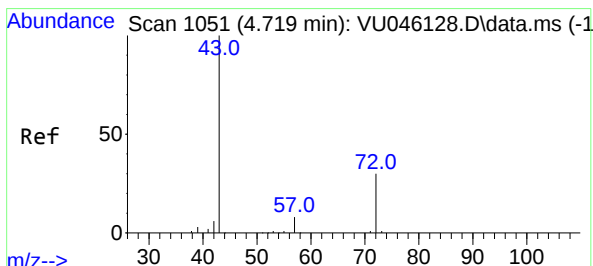
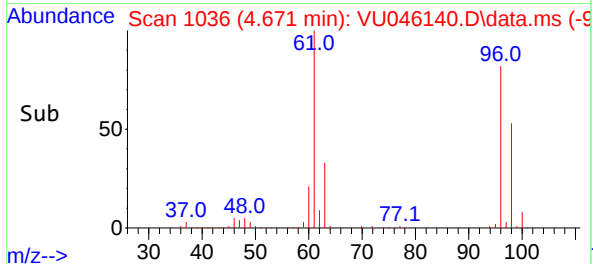
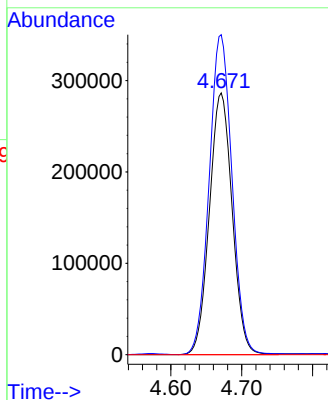
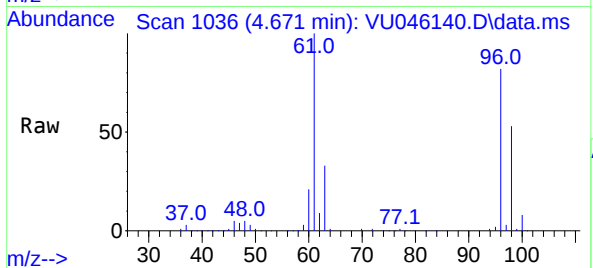




#20
cis-1,2-Dichloroethene
Concen: 1591.758 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

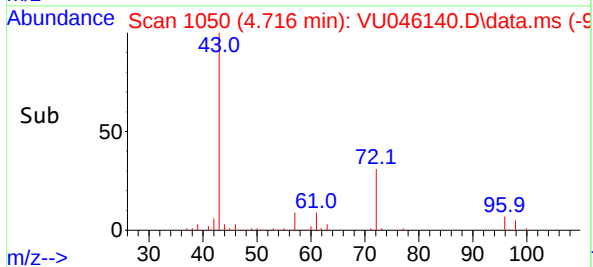
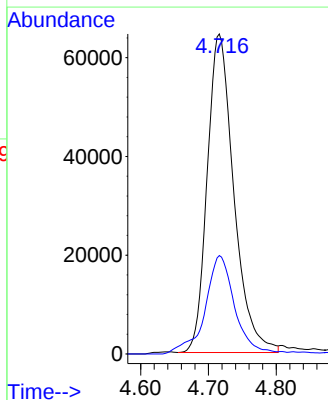
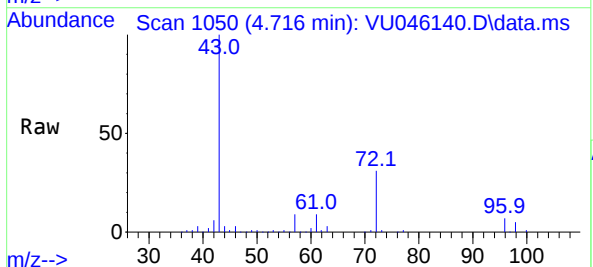
Instrument :
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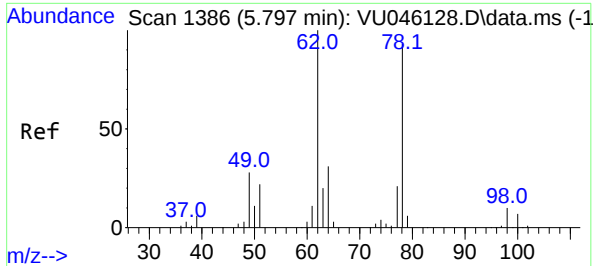
Tgt Ion: 96 Resp: 640965
Ion Ratio Lower Upper
96 100
61 122.3 86.8 161.2
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 389.527 ug/L
RT: 4.716 min Scan# 1050
Delta R.T. -0.007 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion: 43 Resp: 176006
Ion Ratio Lower Upper
43 100
72 33.8 14.5 43.6

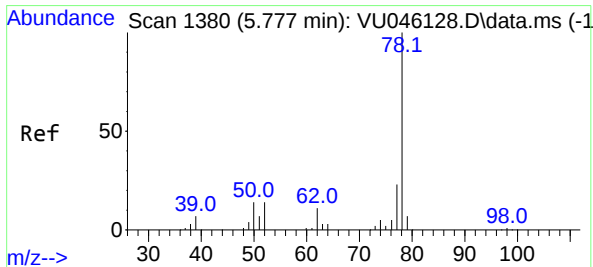
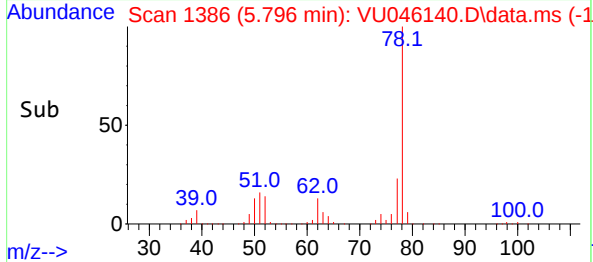
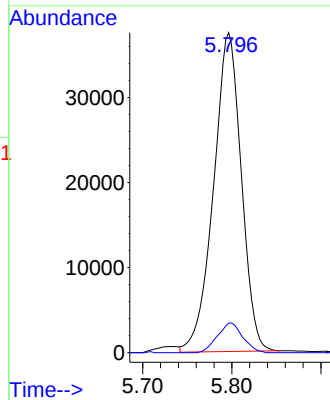
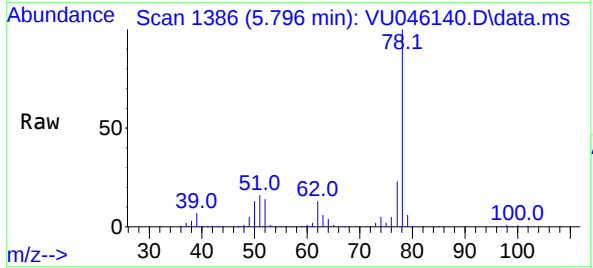




#27
 1,2-Dichloroethane
 Concen: 145.734 ug/L
 RT: 5.796 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VU046140.D
 Acq: 07 Dec 2021 15:03

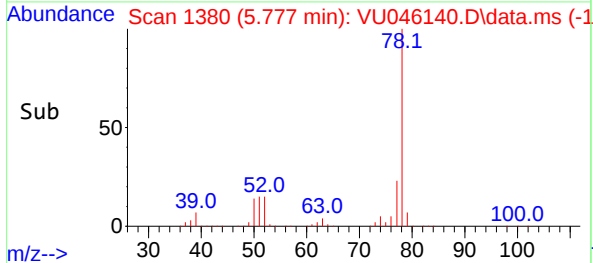
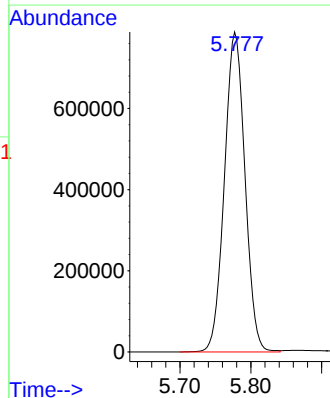
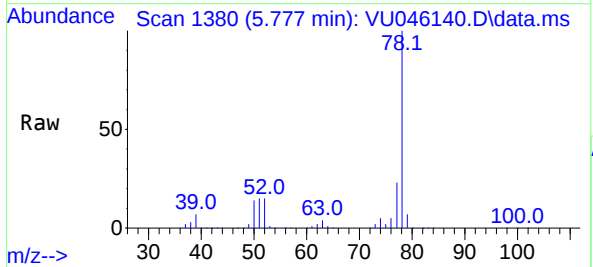
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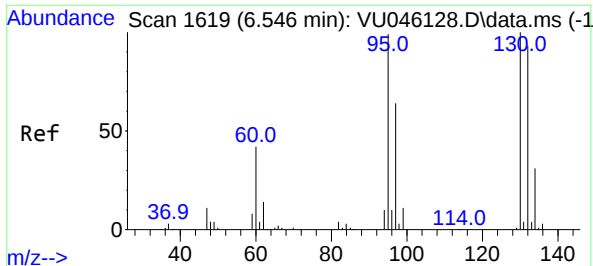
Tgt Ion:	62	Resp:	81076
Ion Ratio	Lower	Upper	
62	100		
98	9.2	7.9	11.9



#33
 Benzene
 Concen: 1073.993 ug/L
 RT: 5.777 min Scan# 1380
 Delta R.T. -0.003 min
 Lab File: VU046140.D
 Acq: 07 Dec 2021 15:03

Tgt Ion: 78 Resp: 1587870

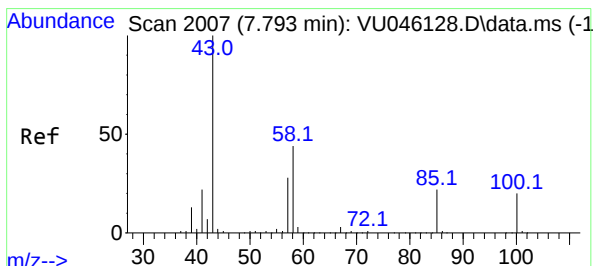
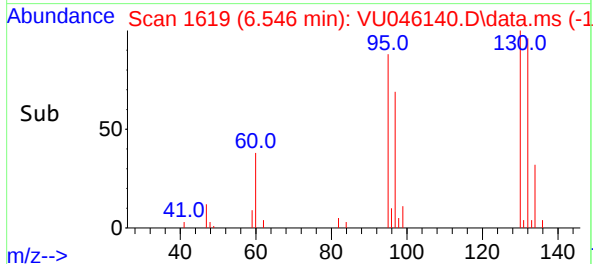
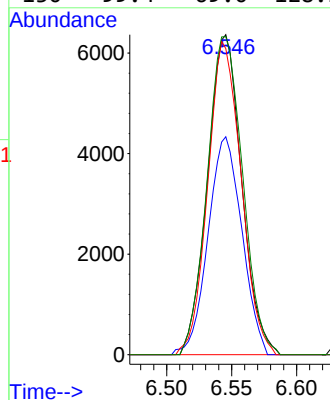
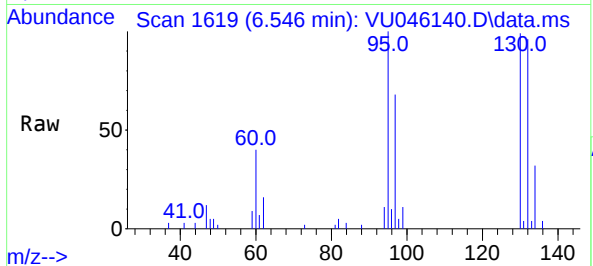




#34
Trichloroethene
Concen: 29.865 ug/L
RT: 6.546 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

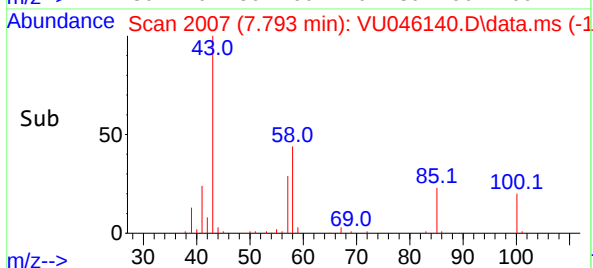
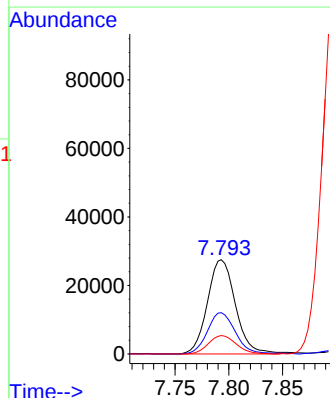
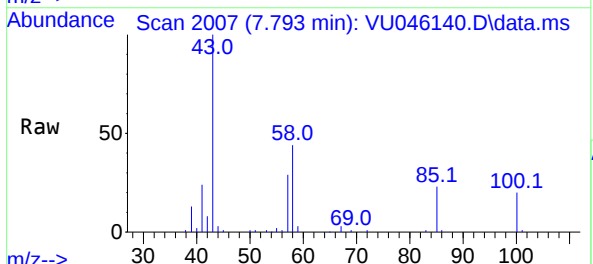
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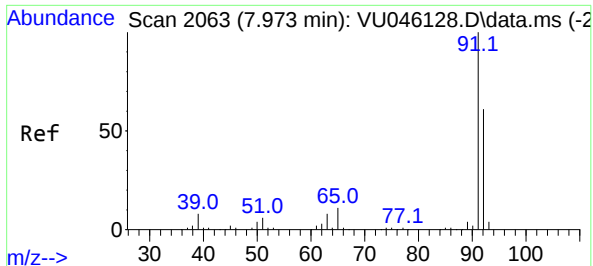
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Ion Ratio Lower Upper
95 100
97 68.1 44.1 81.9
132 95.6 66.8 124.0
130 99.4 69.0 128.1



#40
4-Methyl-2-pentanone
Concen: 87.629 ug/L
RT: 7.793 min Scan# 2007
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion: 43 Resp: 49864
Ion Ratio Lower Upper
43 100
58 44.0 34.2 51.4
100 19.4 14.5 21.7

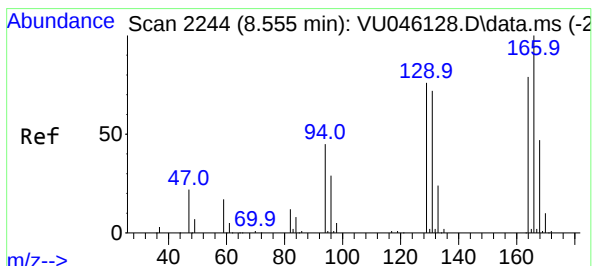
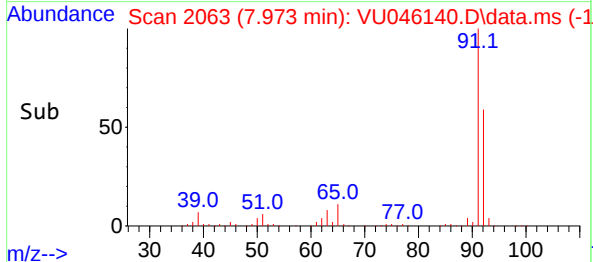
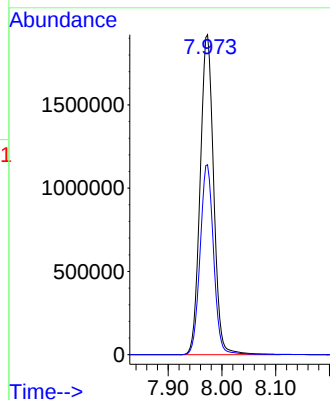
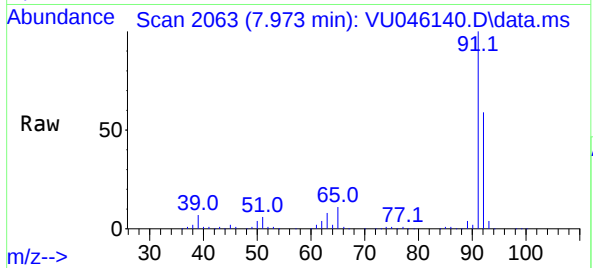




#42
Toluene
Concen: 2112.200 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

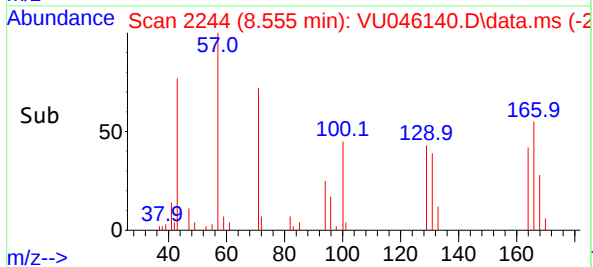
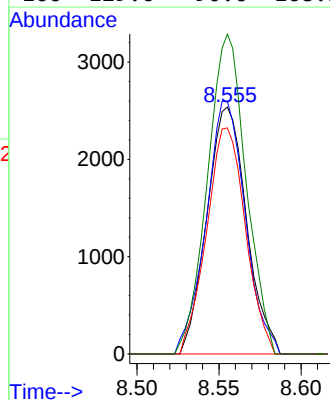
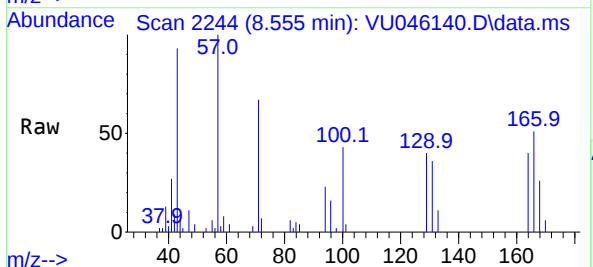
Instrument :
MSVOA_U
ClientSampleId :
BGKS4

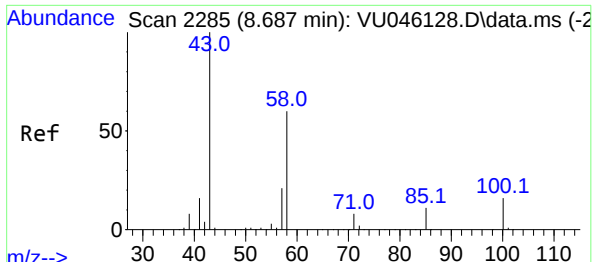
Tgt Ion: 91 Resp: 3350871
Ion Ratio Lower Upper
91 100
92 59.4 41.9 77.7



#46
Tetrachloroethene
Concen: 14.859 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion: 164 Resp: 4253
Ion Ratio Lower Upper
164 100
129 102.4 71.1 132.1
131 91.6 67.8 126.0
166 129.6 90.6 168.2





#48

2-Hexanone

Concen: 37.730 ug/L

RT: 8.687 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU046140.D

Acq: 07 Dec 2021 15:03

Instrument :

MSVOA_U

ClientSampleId :

BGKS4

Tgt Ion: 43 Resp: 19201

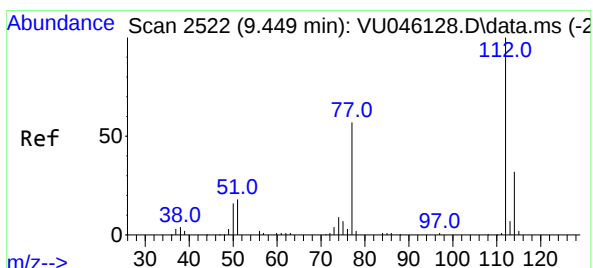
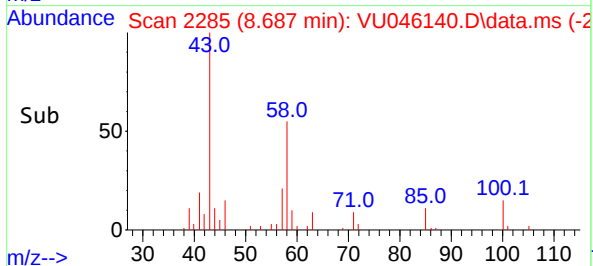
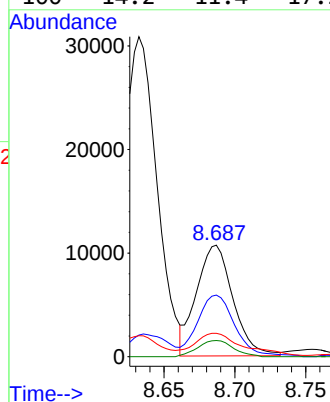
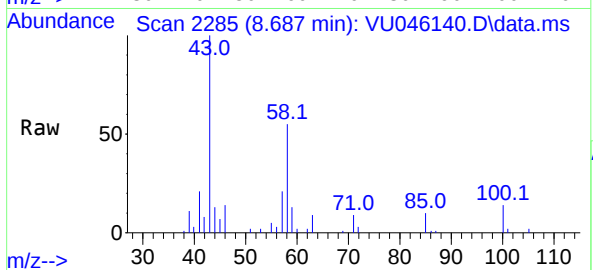
Ion Ratio Lower Upper

43 100

58 56.8 47.4 71.2

57 26.1 16.6 25.0#

100 14.2 11.4 17.2



#51

Chlorobenzene

Concen: 26.843 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. -0.000 min

Lab File: VU046140.D

Acq: 07 Dec 2021 15:03

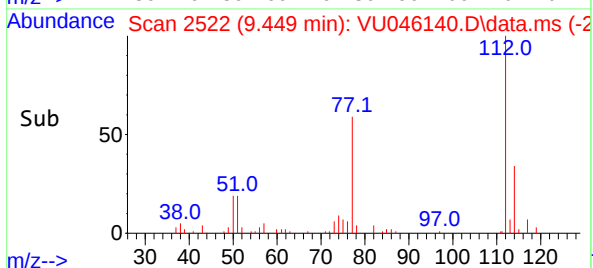
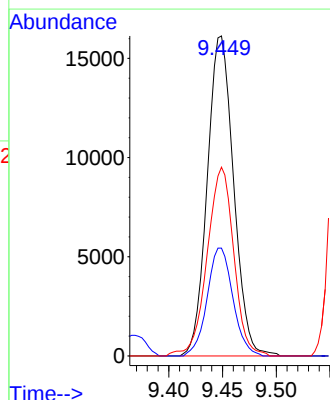
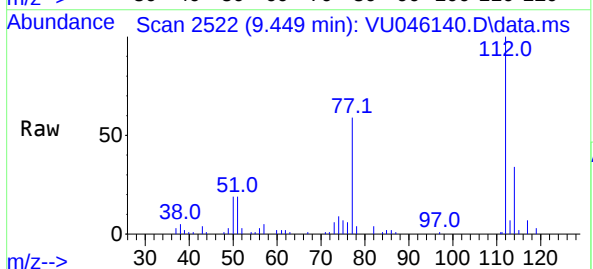
Tgt Ion: 112 Resp: 27550

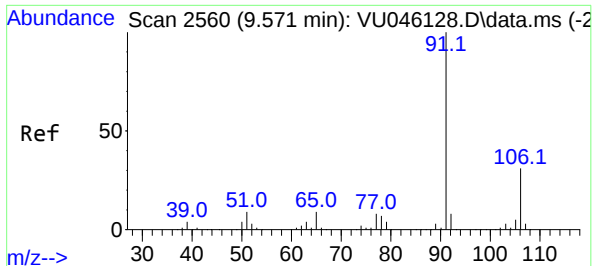
Ion Ratio Lower Upper

112 100

114 33.7 22.2 41.2

77 59.0 47.4 71.0

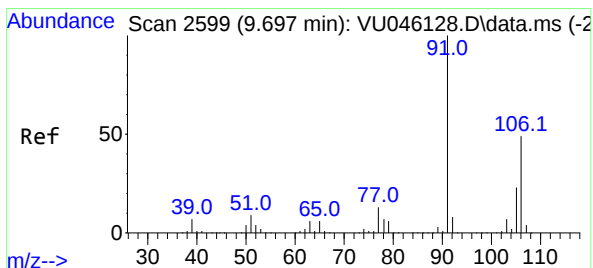
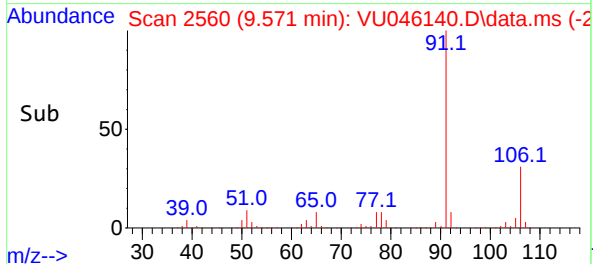
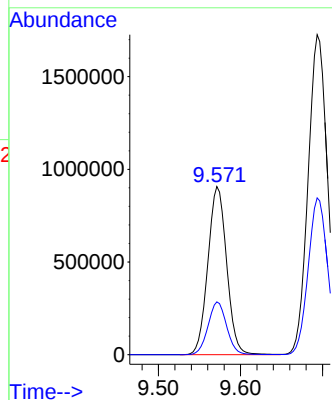
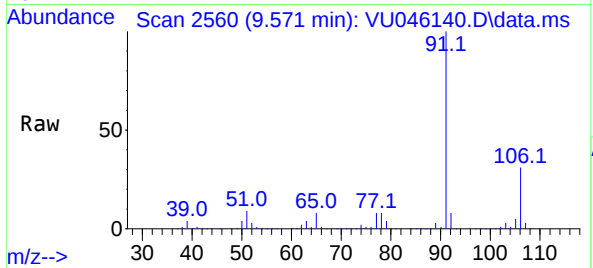




#52
Ethylbenzene
Concen: 845.184 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

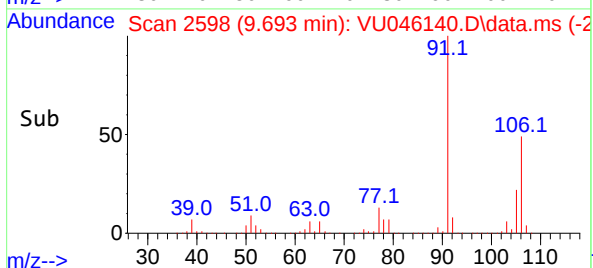
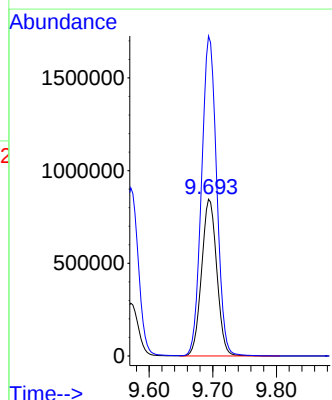
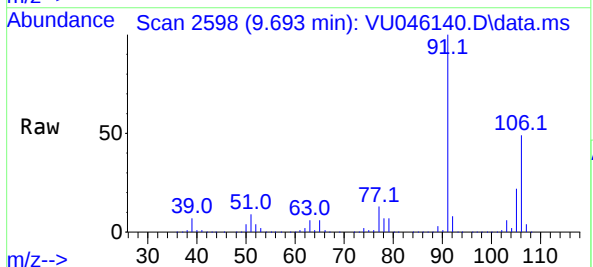
Instrument :
MSVOA_U
ClientSampleId :
BGKS4

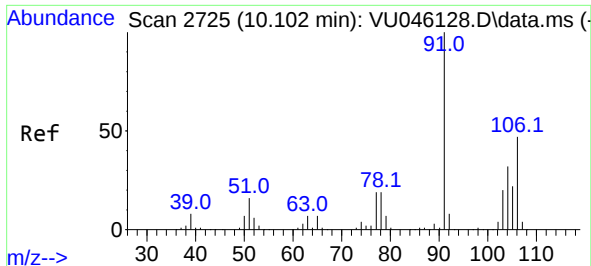
Tgt Ion: 91 Resp: 1443025
Ion Ratio Lower Upper
91 100
106 31.4 21.1 39.3



#53
m,p-Xylene
Concen: 2104.644 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion:106 Resp: 1401362
Ion Ratio Lower Upper
106 100
91 204.1 144.3 268.1

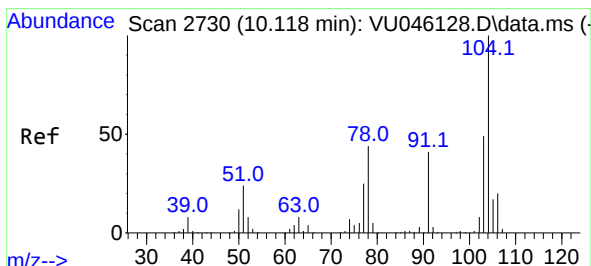
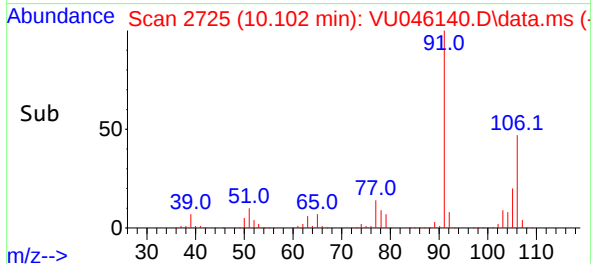
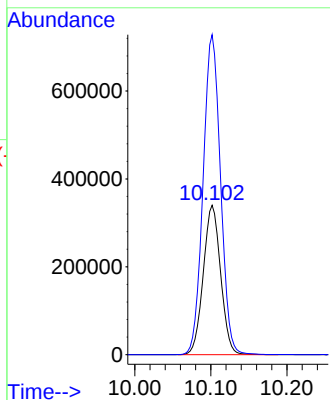
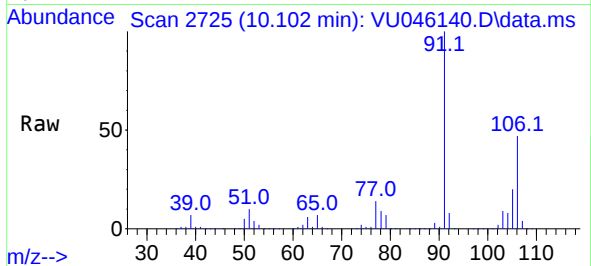




#54
o-xylene
Concen: 834.069 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

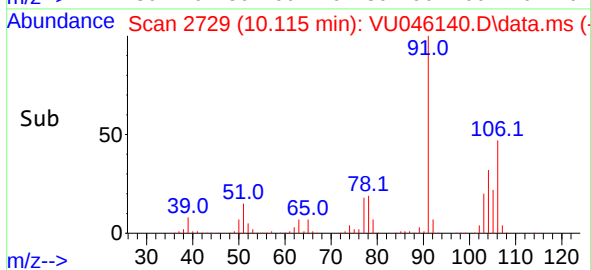
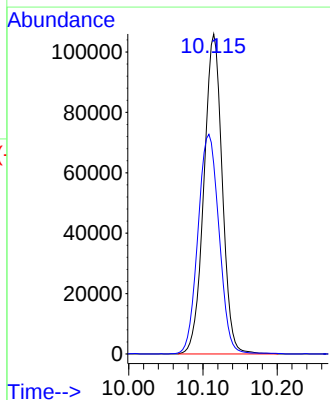
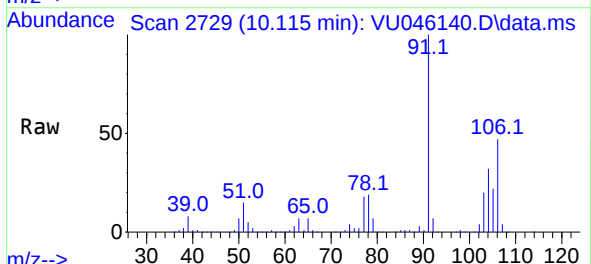
Instrument :
MSVOA_U
ClientSampleId :
BGKS4

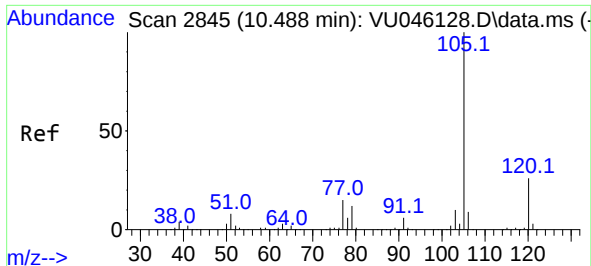
Tgt Ion:106 Resp: 538881
Ion Ratio Lower Upper
106 100
91 214.1 154.2 286.4



#55
Styrene
Concen: 164.314 ug/L
RT: 10.115 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion:104 Resp: 181248
Ion Ratio Lower Upper
104 100
78 59.5 32.6 60.5

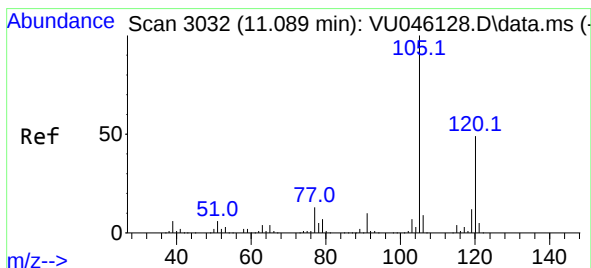
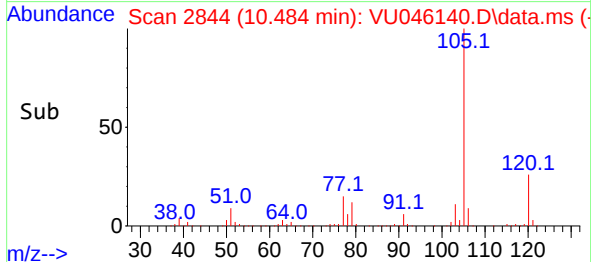
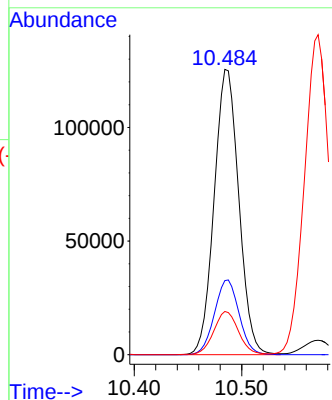
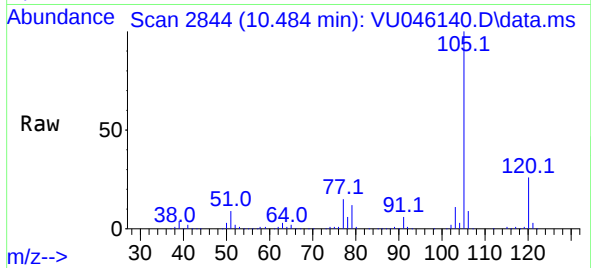




#61
Isopropylbenzene
Concen: 111.891 ug/L
RT: 10.484 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

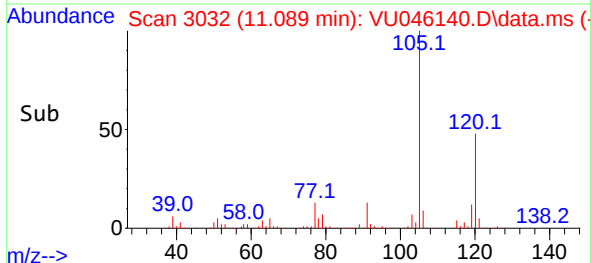
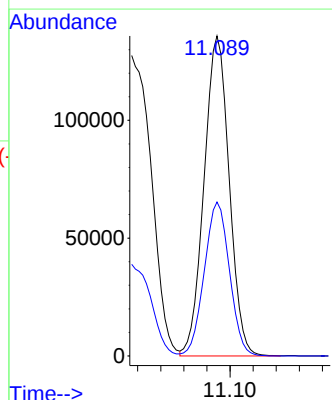
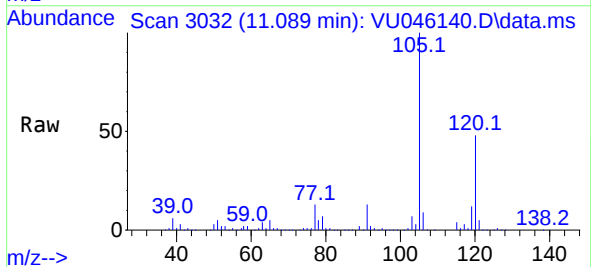
Instrument :
MSVOA_U
ClientSampleId :
BGKS4

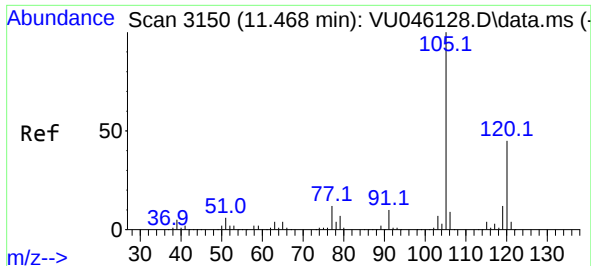
Tgt Ion:105 Resp: 199897
Ion Ratio Lower Upper
105 100
120 26.2 20.7 31.1
77 15.0 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 137.766 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion:105 Resp: 205146
Ion Ratio Lower Upper
105 100
120 48.2 37.8 56.6

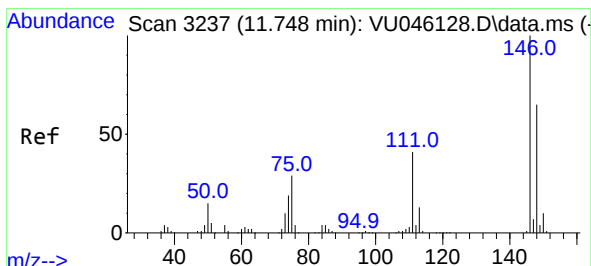
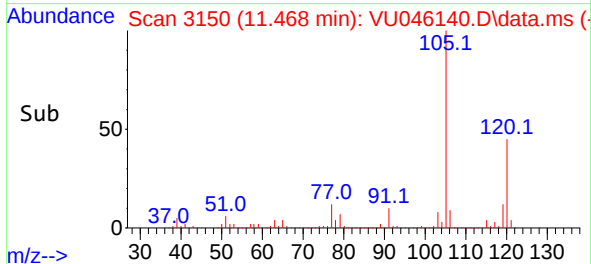
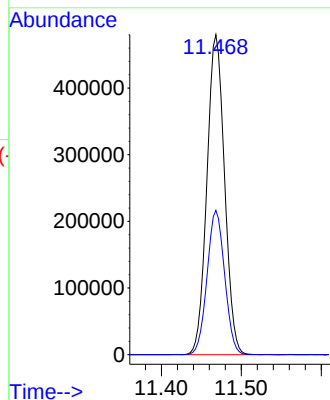
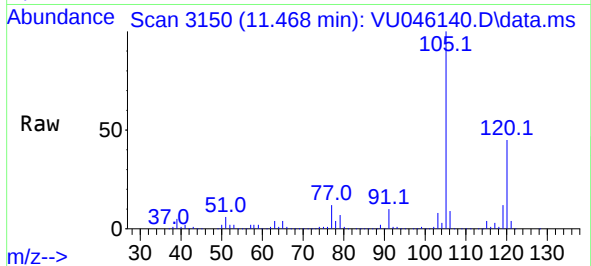




#63
1,2,4-Trimethylbenzene
Concen: 493.990 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

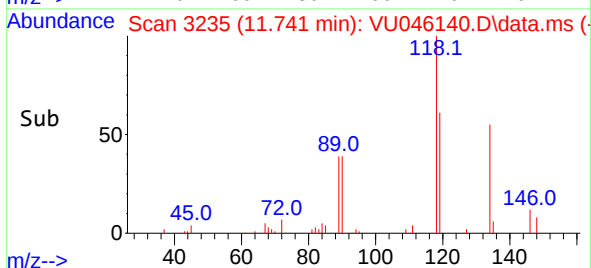
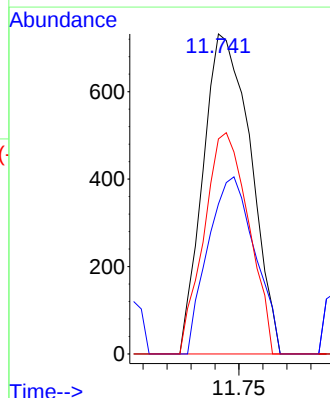
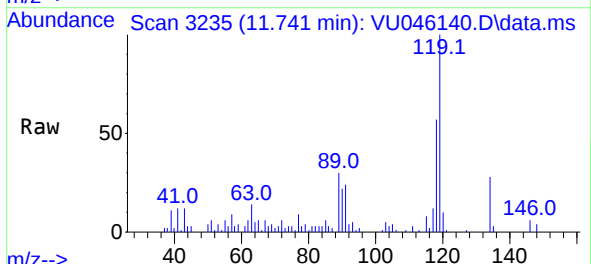
Instrument :
MSVOA_U
ClientSampleId :
BGKS4

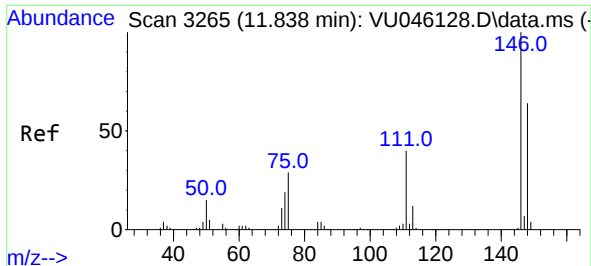
Tgt Ion:105 Resp: 735956
Ion Ratio Lower Upper
105 100
120 45.0 35.2 52.8



#64
1,3-Dichlorobenzene
Concen: 1.190 ug/L
RT: 11.741 min Scan# 3235
Delta R.T. -0.007 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion:146 Resp: 1010
Ion Ratio Lower Upper
146 100
111 46.9 29.5 54.9
148 67.2 45.9 85.3

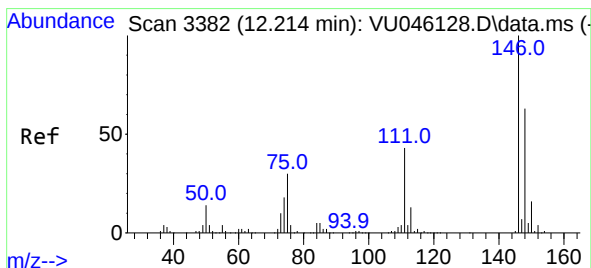
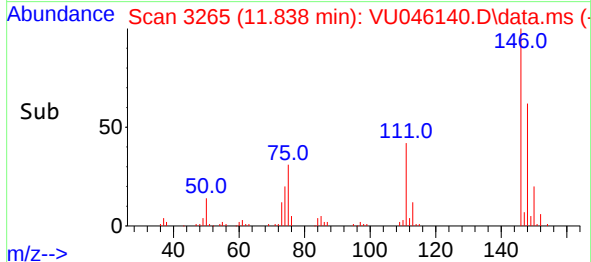
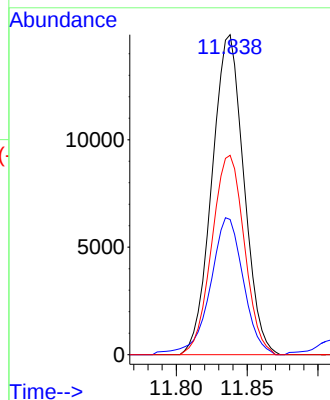
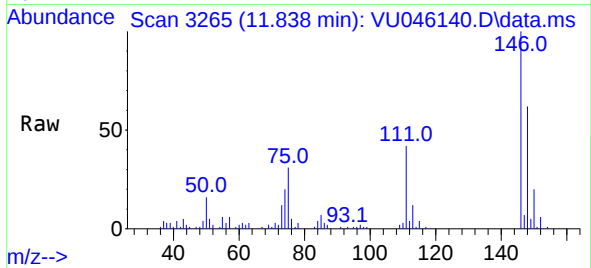




#65
1,4-Dichlorobenzene
Concen: 26.564 ug/L
RT: 11.838 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

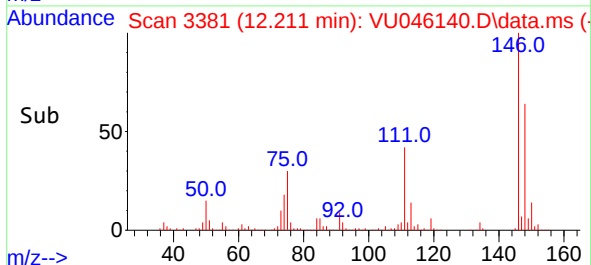
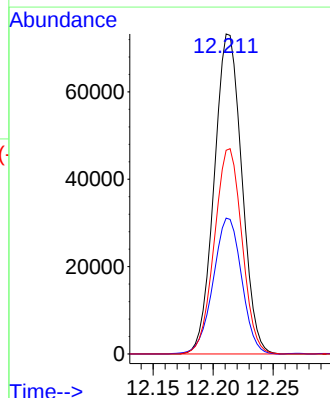
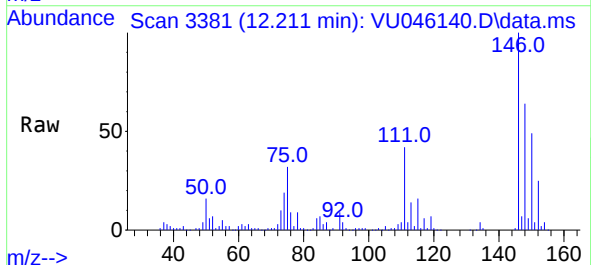
Instrument :
MSVOA_U
ClientSampleId :
BGKS4

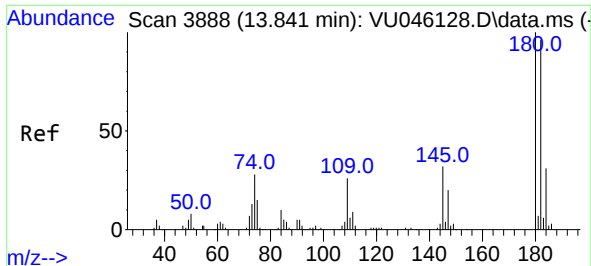
Tgt Ion:146 Resp: 23298
Ion Ratio Lower Upper
146 100
111 42.2 28.3 52.7
148 62.3 43.8 81.3



#67
1,2-Dichlorobenzene
Concen: 137.090 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.003 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion:146 Resp: 117156
Ion Ratio Lower Upper
146 100
111 42.4 35.7 53.5
148 63.7 51.2 76.8

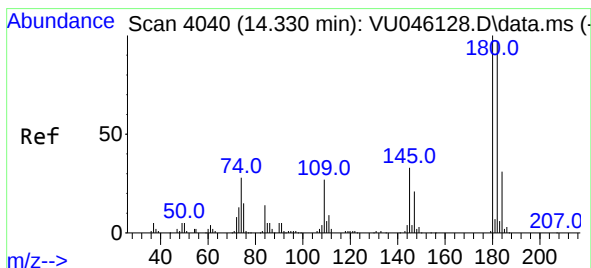
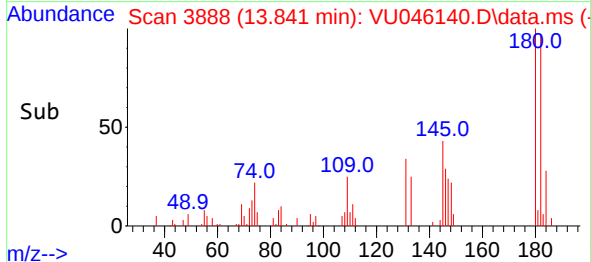
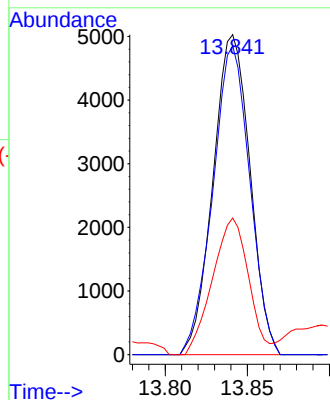
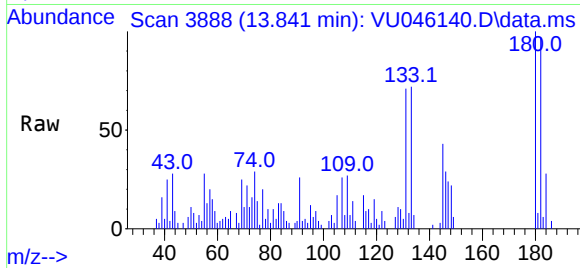




#70
1,2,4-trichlorobenzene
Concen: 14.346 ug/L
RT: 13.841 min Scan# 3888
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Instrument :
MSVOA_U
ClientSampleId :
BGKS4

Tgt Ion:180 Resp: 7872
Ion Ratio Lower Upper
180 100
182 96.2 76.7 115.1
145 41.5 26.0 39.0#



#72
1,2,3-Trichlorobenzene
Concen: 4.180 ug/L
RT: 14.330 min Scan# 4040
Delta R.T. -0.000 min
Lab File: VU046140.D
Acq: 07 Dec 2021 15:03

Tgt Ion:180 Resp: 2339
Ion Ratio Lower Upper
180 100
182 101.9 76.0 114.0
145 74.9 27.3 40.9#

