

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122222\
 Data File : VU052488.D
 Acq On : 22 Dec 2022 13:55
 Operator : JC/MD
 Sample : N6170-10
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQB7

Quant Time: Dec 23 00:31:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 22 00:28:27 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.246	114	195832	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	184476	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	100935	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	69868	3.522	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.400%
7) Chloroethane-d5	1.915	69	63535	3.713	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.200%
11) 1,1-Dichloroethene-d2	2.568	65	30308	3.550	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.000%
20) 2-Butanone-d5	4.632	46	267459	43.472	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.940%
24) Chloroform-d	5.060	84	126592	3.782	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.600%
26) 1,2-Dichloroethane-d4	5.700	65	73516	3.786	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.800%
32) Benzene-d6	5.726	84	261190	4.130	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.600%
36) 1,2-Dichloropropane-d6	6.687	67	90428	4.153	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.000%
41) Toluene-d8	7.893	98	281119	5.295	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.800%
43) trans-1,3-Dichloroprop...	8.176	79	42212	5.662	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	113.200%
46) 2-Hexanone-d5	8.629	63	208726	51.173	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.340%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	80815	4.372	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.400%
66) 1,2-Dichlorobenzene-d4	12.188	152	92027	4.478	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.600%
Target Compounds						
					Qvalue	
13) Acetone	2.652	43	93001	20.505	ug/L	98
14) Carbon disulfide	2.793	76	36479	0.772	ug/L	99
15) Methyl Acetate	3.083	43	5038069	504.219	ug/L #	55
18) trans-1,2-Dichloroethene	3.353	96	32640	2.159	ug/L	95
21) 2-Butanone	4.716	43	118808	17.786	ug/L	97
22) cis-1,2-Dichloroethene	4.665	96	218201	13.154	ug/L	95
25) Chloroform	5.121	83	36890	1.158	ug/L	78
27) 1,2-Dichloroethane	5.848	62	7068	0.321	ug/L #	1
30) Cyclohexane	5.388	56	4610806	183.768	ug/L	93
34) Trichloroethene	6.542	95	10017	0.645	ug/L	92
35) Methylcyclohexane	6.764	83	7559694	322.731	ug/L	96
37) 1,2-Dichloropropane	6.764	63	73941	3.988	ug/L #	26
38) Bromodichloromethane	7.073	83	48288	2.140	ug/L #	58
40) 4-Methyl-2-pentanone	7.854	43	223799	16.517	ug/L #	49
42) Toluene	7.967	91	83214	1.306	ug/L	100
45) 1,1,2-Trichloroethane	8.365	97	734809	55.955	ug/L #	19
47) Tetrachloroethene	8.549	164	7131	0.658	ug/L	95
48) 2-Hexanone	8.684	43	26614	2.606	ug/L #	83
51) Chlorobenzene	9.442	112	5420	0.133	ug/L #	1

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

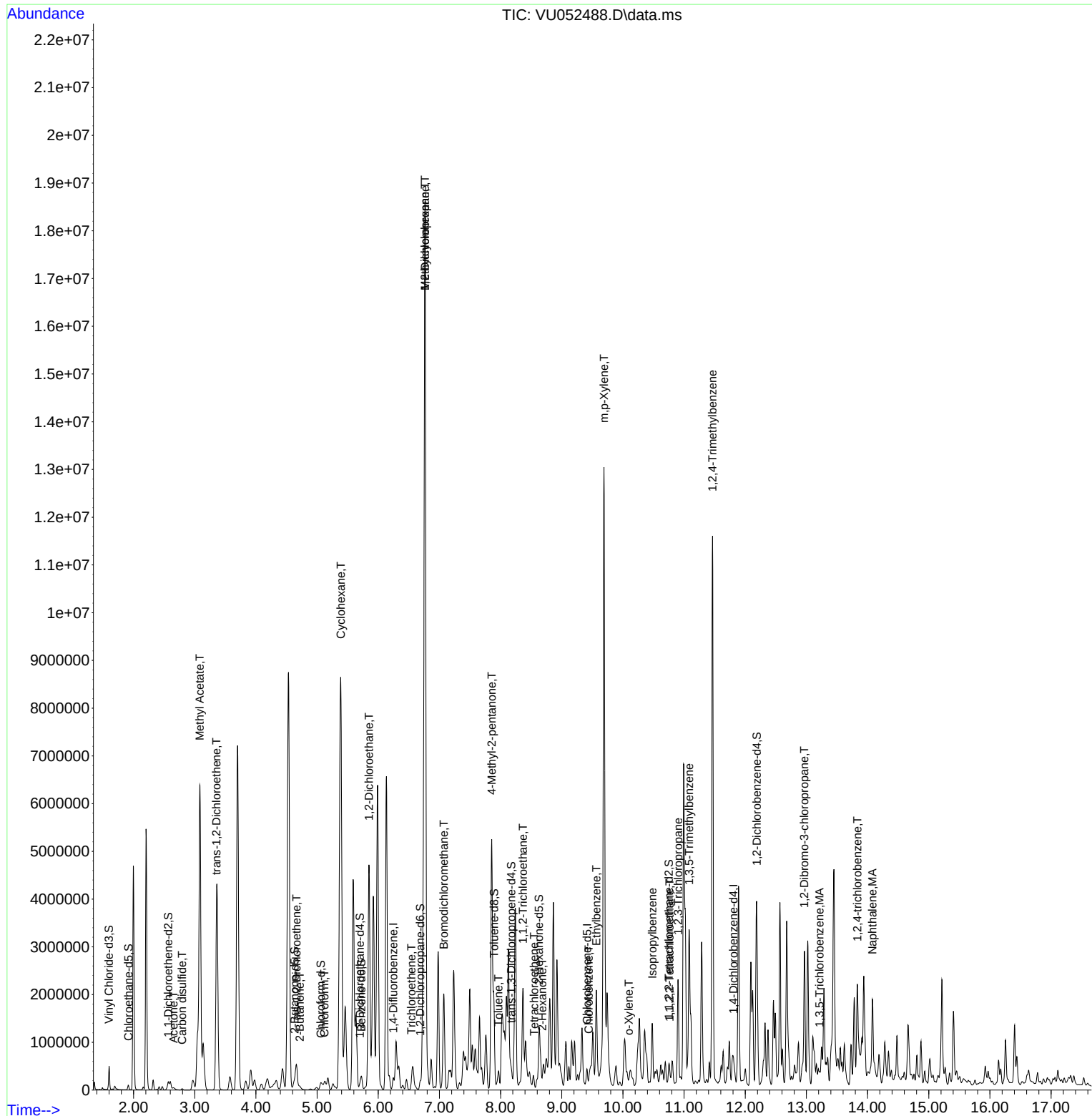
52) Ethylbenzene	9.565	91	1083717	16.437	ug/L	99
53) m,p-Xylene	9.690	106	3258769	134.041	ug/L	98
54) o-Xylene	10.095	106	20113	0.863	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.761	83	7677	0.423	ug/L #	74
60) Isopropylbenzene	10.481	105	747341	11.424	ug/L	99
61) 1,2,3-Trichloropropane	10.902	75	10646	0.735	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.082	105	1659470	30.757	ug/L	100
63) 1,2,4-Trimethylbenzene	11.465	105	6036585	111.139	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.966	75	12263	3.742	ug/L #	8
69) 1,3,5-Trichlorobenzene	13.214	180	5683	0.238	ug/L #	1
70) 1,2,4-trichlorobenzene	13.835	180	9542	0.474	ug/L #	1
71) Naphthalene	14.079	128	1324343	32.544	ug/L	98

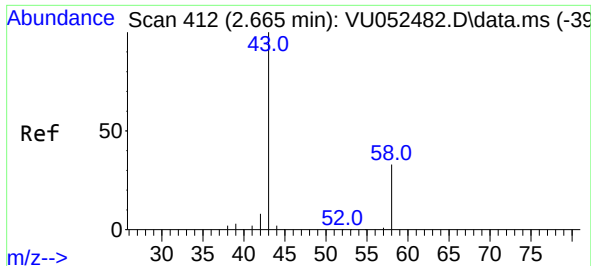
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 20.505 ug/L

RT: 2.652 min Scan# 408

Delta R.T. -0.029 min

Lab File: VU052488.D

Acq: 22 Dec 2022 13:55

Instrument :

MSVOA_U

ClientSampleId :

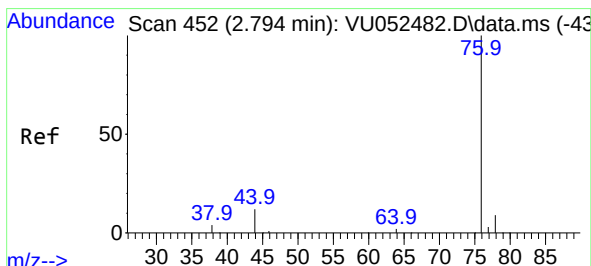
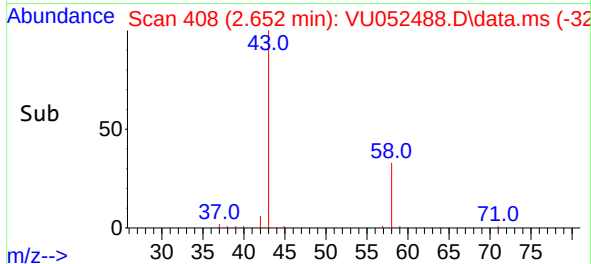
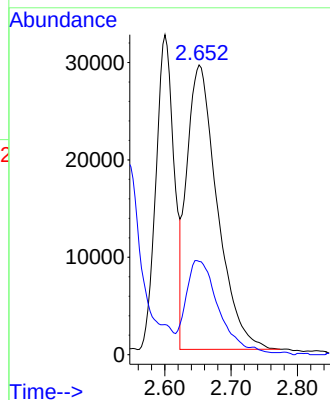
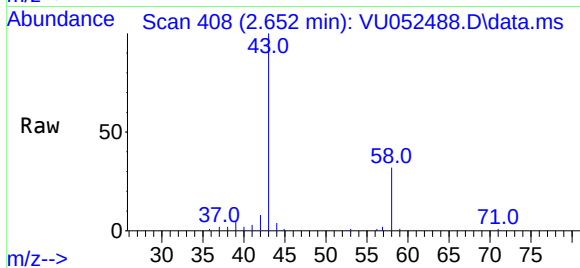
GBQB7

Tgt Ion: 43 Resp: 93001

Ion Ratio Lower Upper

43 100

58 31.5 0.0 65.4



#14

Carbon disulfide

Concen: 0.772 ug/L

RT: 2.793 min Scan# 452

Delta R.T. -0.000 min

Lab File: VU052488.D

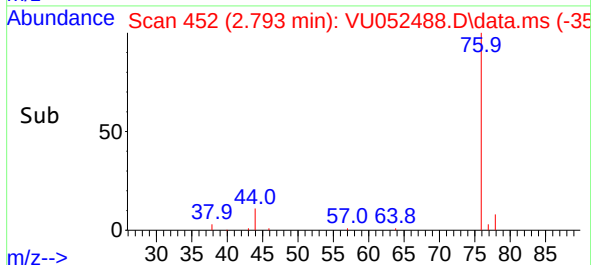
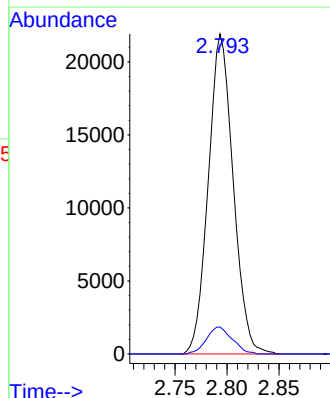
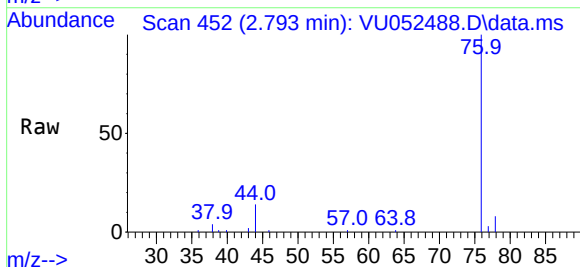
Acq: 22 Dec 2022 13:55

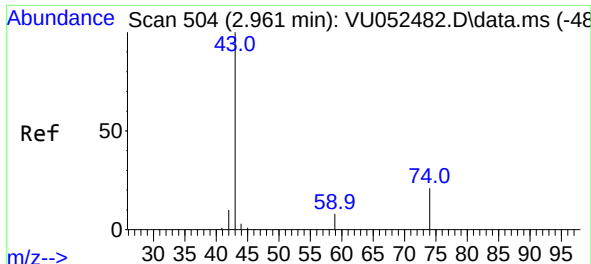
Tgt Ion: 76 Resp: 36479

Ion Ratio Lower Upper

76 100

78 8.4 7.1 10.7

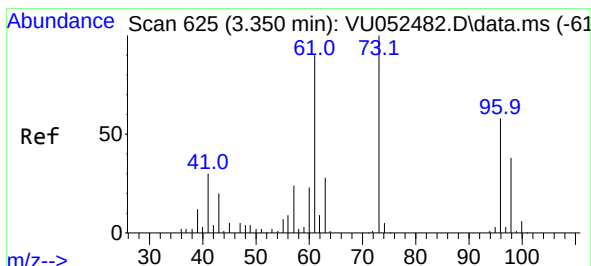
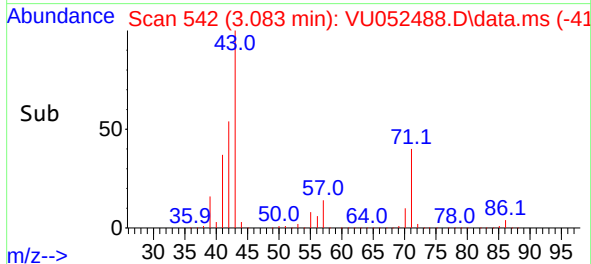
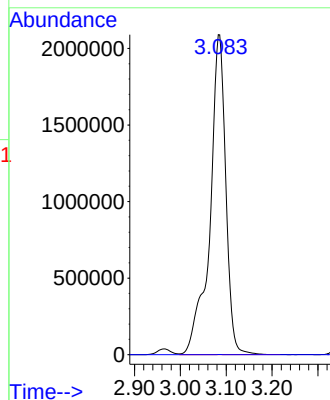
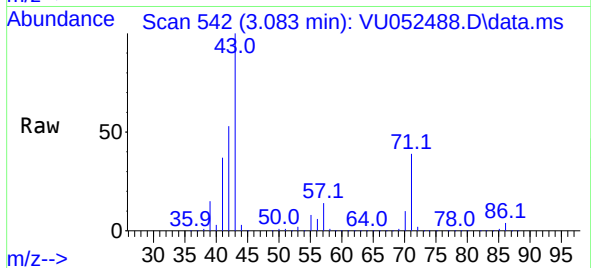




#15
Methyl Acetate
Concen: 504.219 ug/L
RT: 3.083 min Scan# 54
Delta R.T. 0.119 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

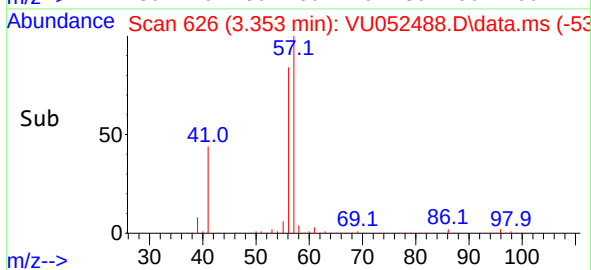
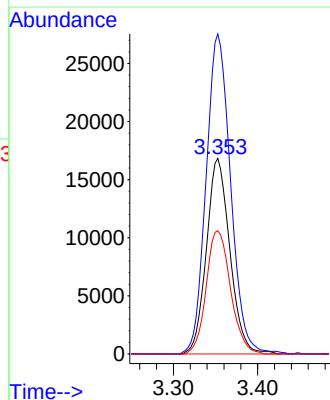
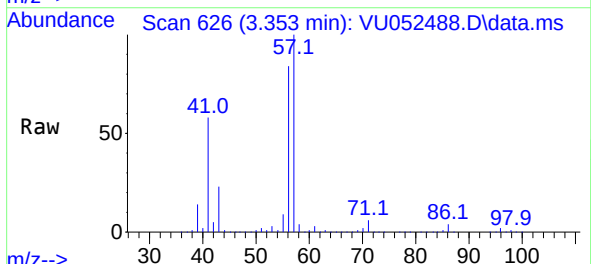
Instrument :
MSVOA_U
ClientSampleId :
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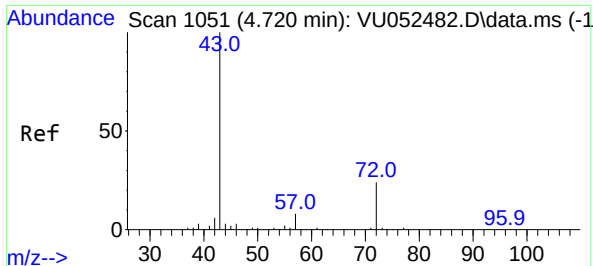
Tgt Ion: 43 Resp: 5038069
Ion Ratio Lower Upper
43 100
74 0.0 16.9 25.3#



#18
trans-1,2-Dichloroethene
Concen: 2.159 ug/L
RT: 3.353 min Scan# 626
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion: 96 Resp: 32640
Ion Ratio Lower Upper
96 100
61 163.7 108.3 201.1
98 63.0 44.0 81.6





#21

2-Butanone

Concen: 17.786 ug/L

RT: 4.716 min Scan# 1050

Delta R.T. -0.013 min

Lab File: VU052488.D

Acq: 22 Dec 2022 13:55

Instrument :

MSVOA_U

ClientSampleId :

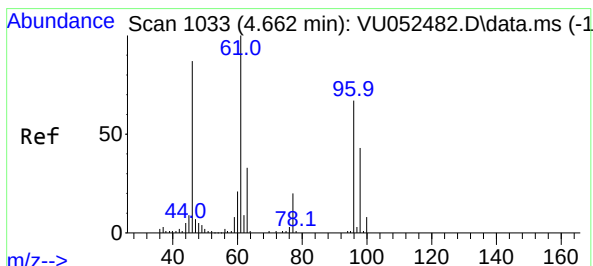
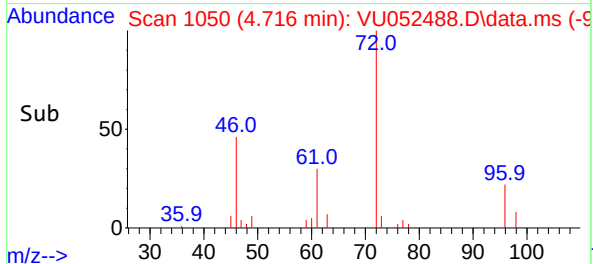
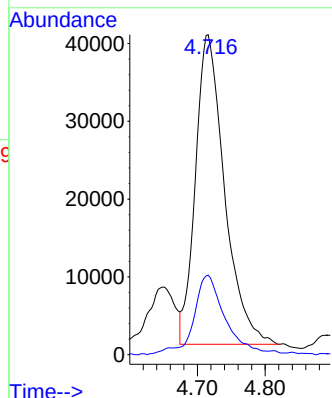
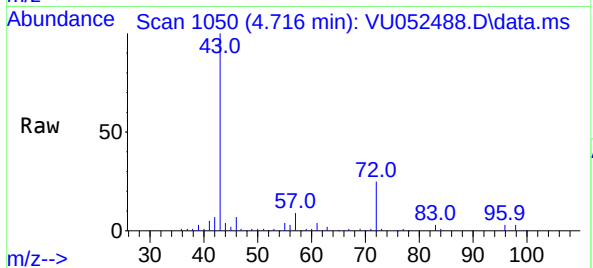
GBQB7

Tgt Ion: 43 Resp: 118808

Ion Ratio Lower Upper

43 100

72 24.4 11.6 34.7



#22

cis-1,2-Dichloroethene

Concen: 13.154 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.000 min

Lab File: VU052488.D

Acq: 22 Dec 2022 13:55

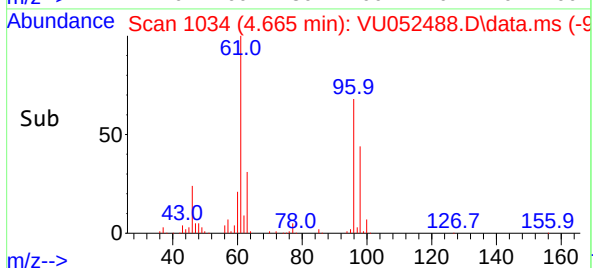
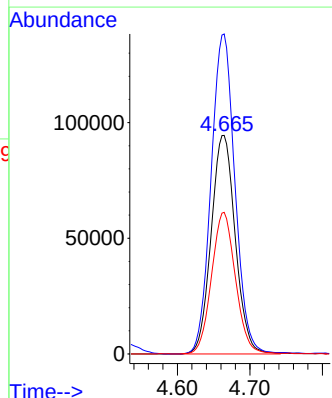
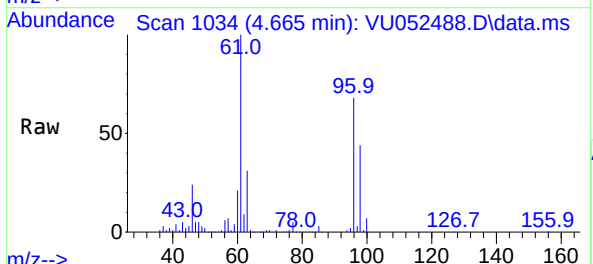
Tgt Ion: 96 Resp: 218201

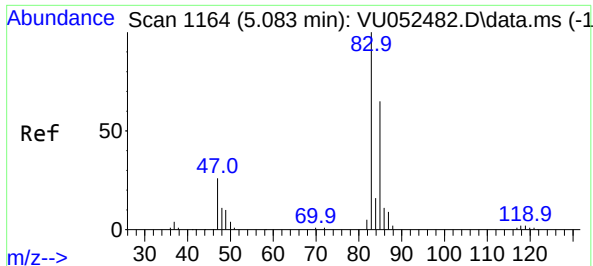
Ion Ratio Lower Upper

96 100

61 146.5 96.9 180.1

98 64.8 44.7 83.1

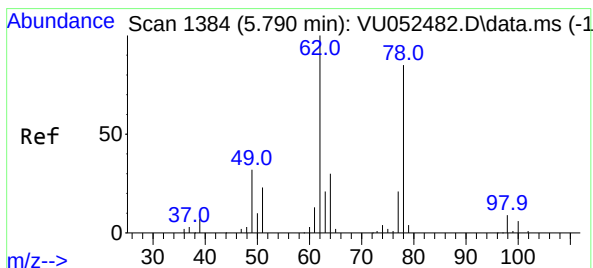
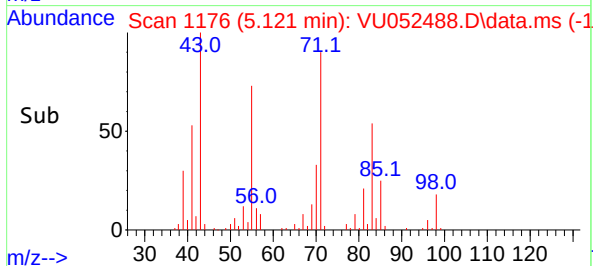
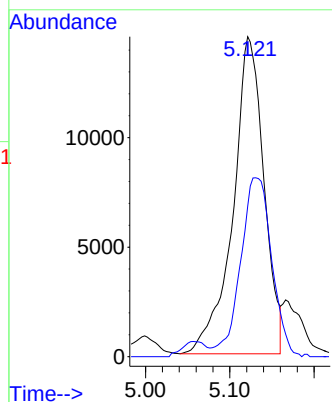
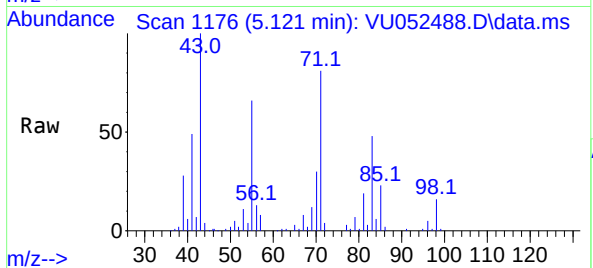




#25
Chloroform
Concen: 1.158 ug/L
RT: 5.121 min Scan# 1164
Delta R.T. 0.035 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

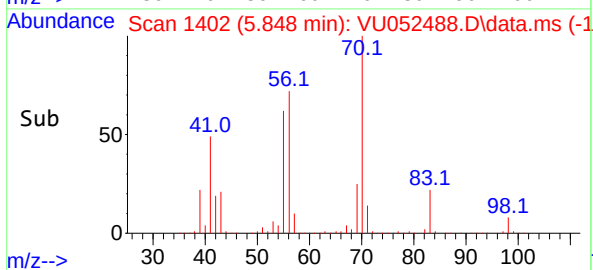
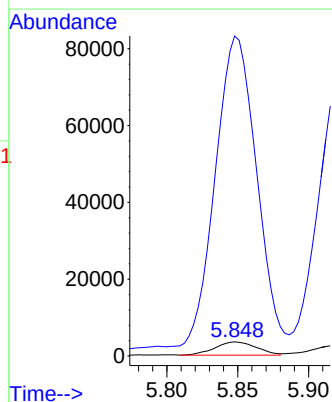
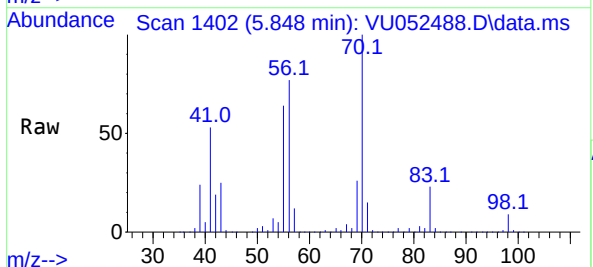
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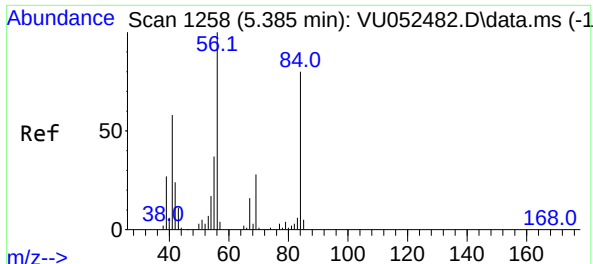
Tgt Ion: 83 Resp: 36890
Ion Ratio Lower Upper
83 100
85 47.0 44.7 83.1



#27
1,2-Dichloroethane
Concen: 0.321 ug/L
RT: 5.848 min Scan# 1402
Delta R.T. 0.054 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion: 62 Resp: 7068
Ion Ratio Lower Upper
62 100
98 2281.5 7.4 11.2#





#30

Cyclohexane

Concen: 183.768 ug/L

RT: 5.388 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU052488.D

Acq: 22 Dec 2022 13:55

Instrument :

MSVOA_U

ClientSampleId :

GBQB7

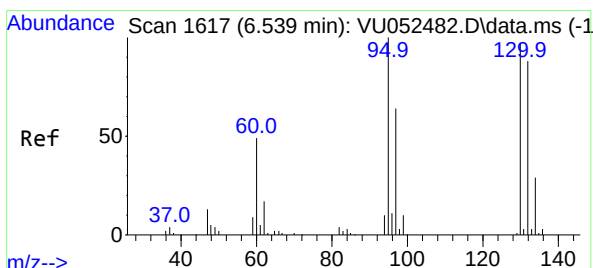
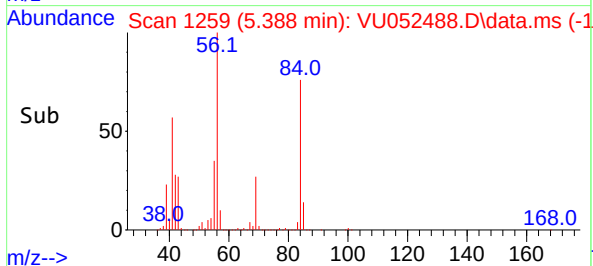
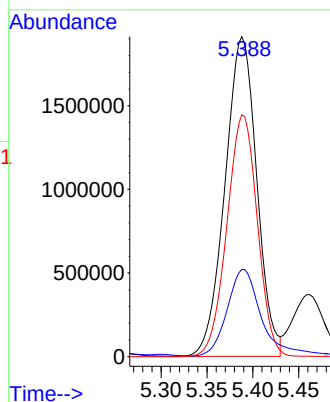
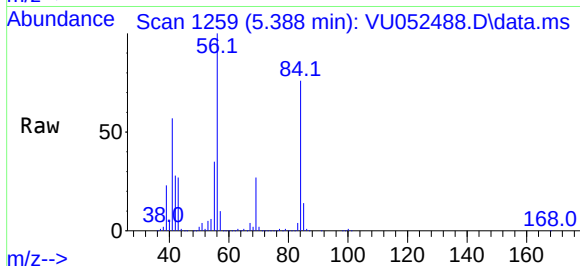
Tgt Ion: 56 Resp: 4610806

Ion Ratio Lower Upper

56 100

69 30.3 23.0 34.6

84 72.6 64.4 96.6



#34

Trichloroethene

Concen: 0.645 ug/L

RT: 6.542 min Scan# 1618

Delta R.T. 0.003 min

Lab File: VU052488.D

Acq: 22 Dec 2022 13:55

Tgt Ion: 95 Resp: 10017

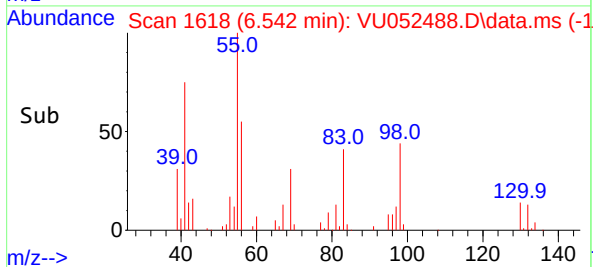
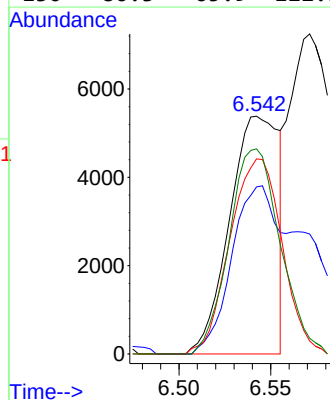
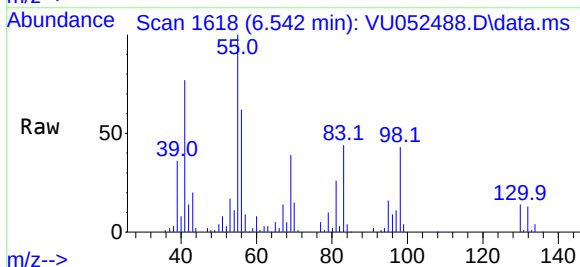
Ion Ratio Lower Upper

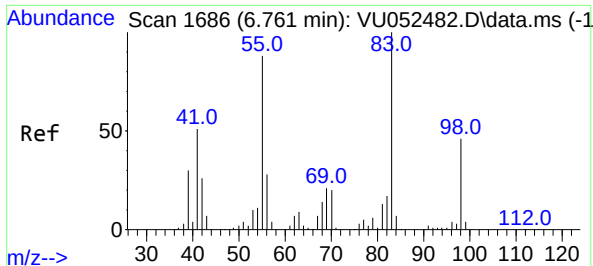
95 100

97 70.3 46.3 86.1

132 82.0 63.9 118.7

130 86.3 65.9 122.5

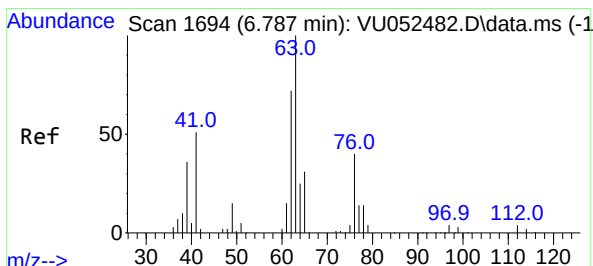
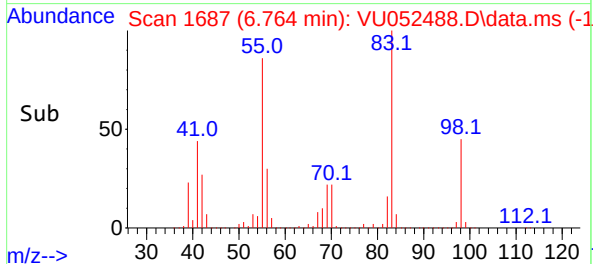
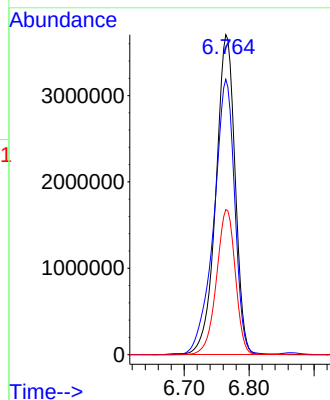
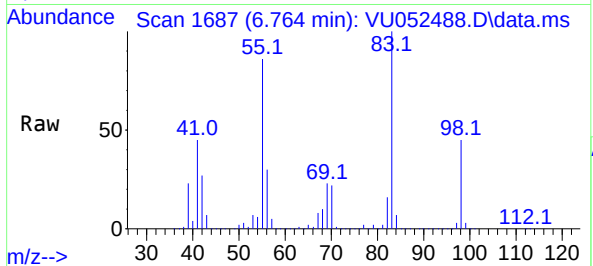




#35
Methylcyclohexane
Concen: 322.731 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. 0.003 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

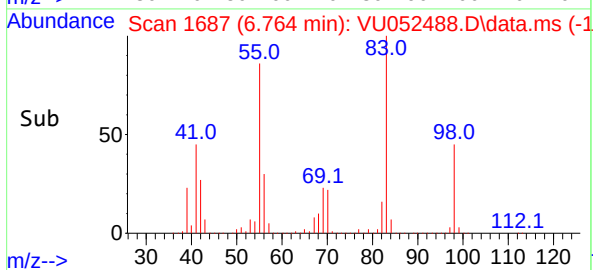
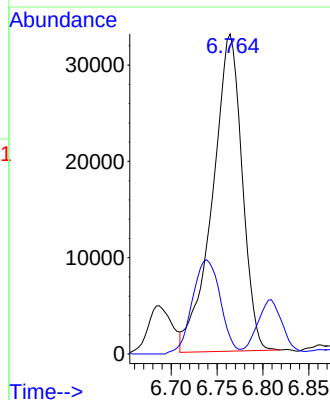
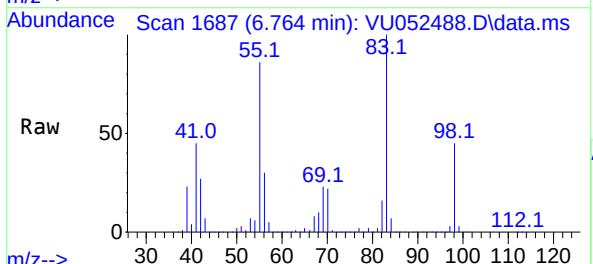
Instrument :
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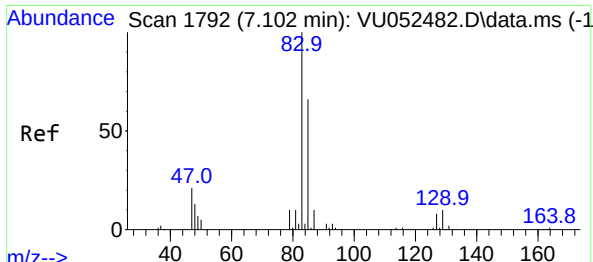
Tgt Ion: 83 Resp: 7559694
Ion Ratio Lower Upper
83 100
55 93.9 71.4 107.0
98 44.7 36.5 54.7



#37
1,2-Dichloropropane
Concen: 3.988 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.026 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion: 63 Resp: 73941
Ion Ratio Lower Upper
63 100
112 28.2 3.0 4.6#

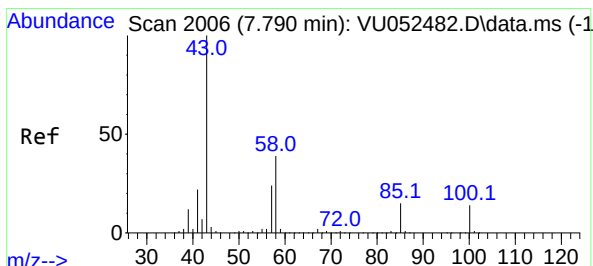
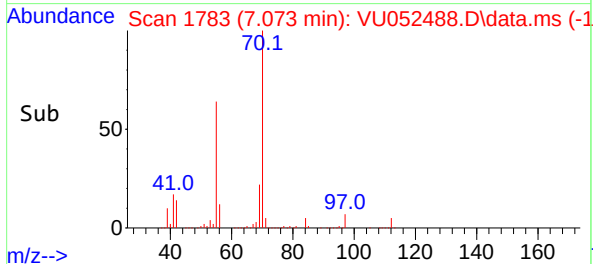
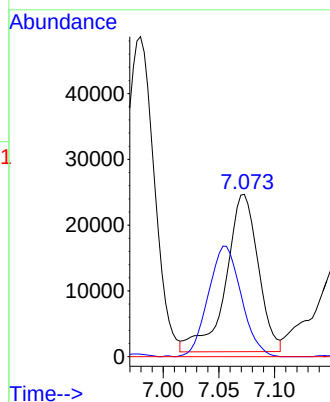
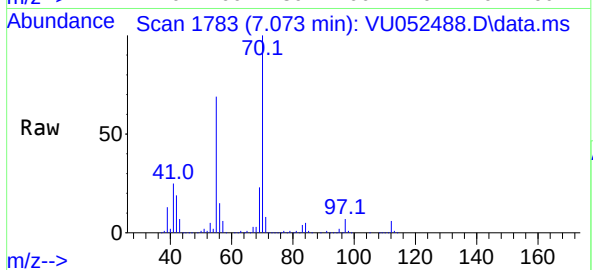




#38
Bromodichloromethane
Concen: 2.140 ug/L
RT: 7.073 min Scan# 11
Delta R.T. -0.029 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

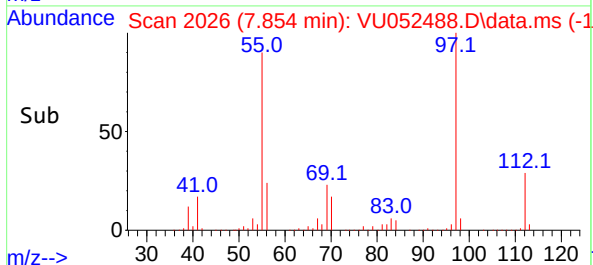
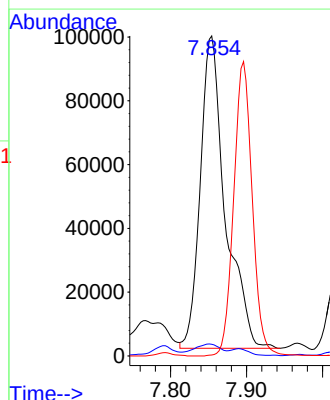
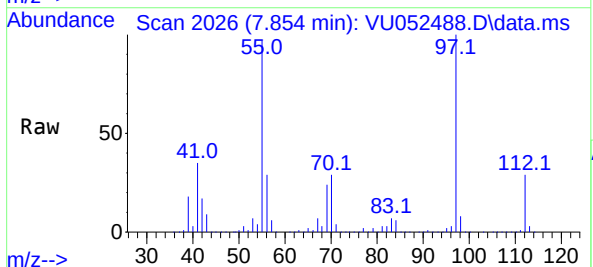
Instrument :
MSVOA_U
ClientSampleId :
GBQB7

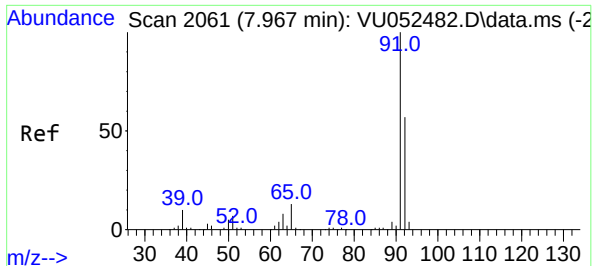
Tgt Ion: 83 Resp: 48288
Ion Ratio Lower Upper
83 100
85 29.6 45.2 84.0#
127 0.0 5.8 8.6#



#40
4-Methyl-2-pentanone
Concen: 16.517 ug/L
RT: 7.854 min Scan# 2026
Delta R.T. 0.064 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion: 43 Resp: 223799
Ion Ratio Lower Upper
43 100
58 3.6 30.6 45.8#
100 0.0 10.4 15.6#

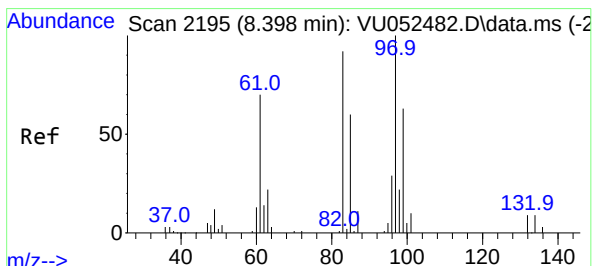
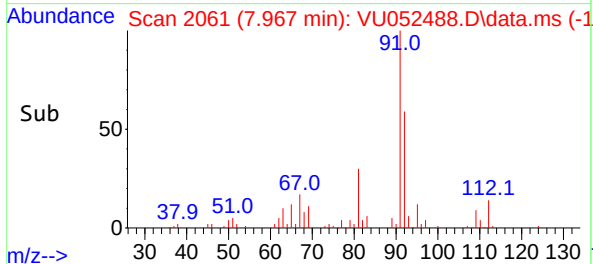
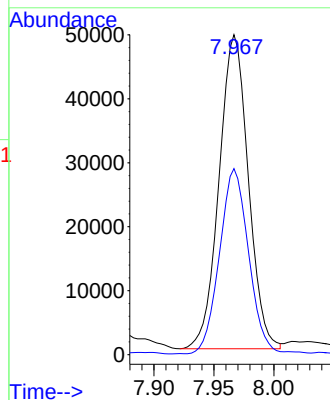
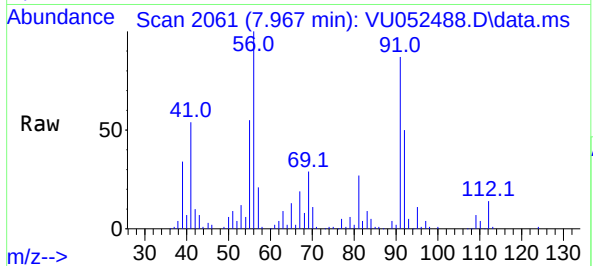




#42
Toluene
Concen: 1.306 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

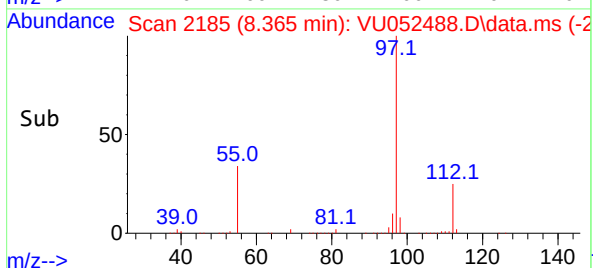
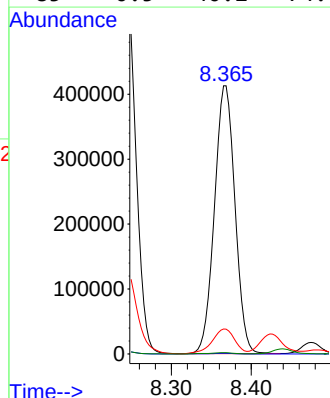
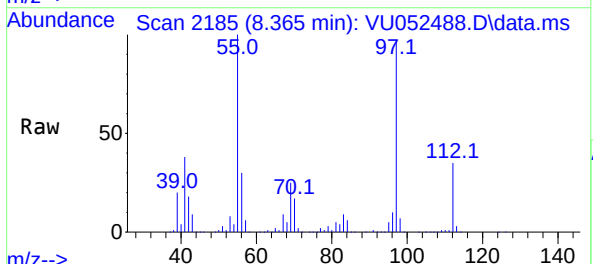
Instrument : MSVOA_U
ClientSampleId : GBQB7

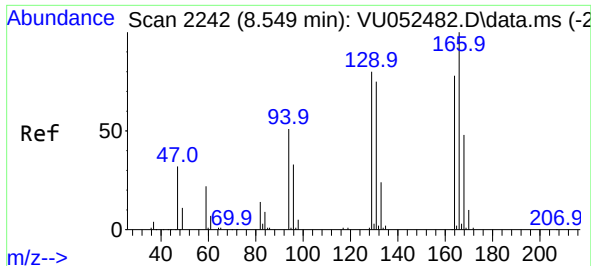
Tgt Ion: 91 Resp: 83214
Ion Ratio Lower Upper
91 100
92 58.1 40.6 75.4



#45
1,1,2-Trichloroethane
Concen: 55.955 ug/L
RT: 8.365 min Scan# 2185
Delta R.T. -0.032 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

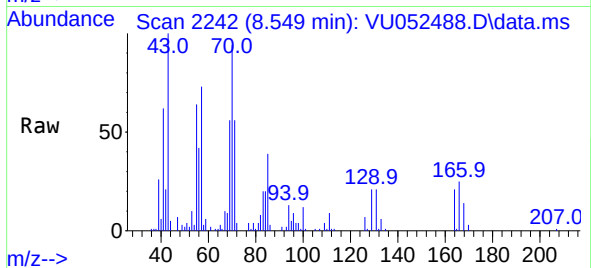
Tgt Ion: 97 Resp: 734809
Ion Ratio Lower Upper
97 100
99 0.2 42.0 78.0#
83 9.3 63.2 117.4#
85 0.5 40.2 74.6#



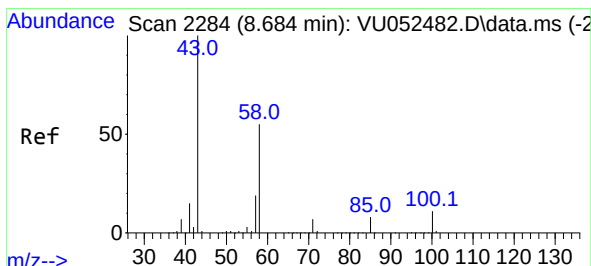
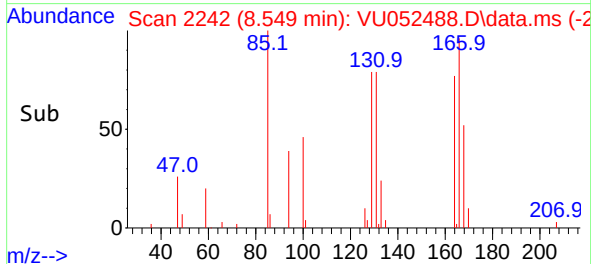
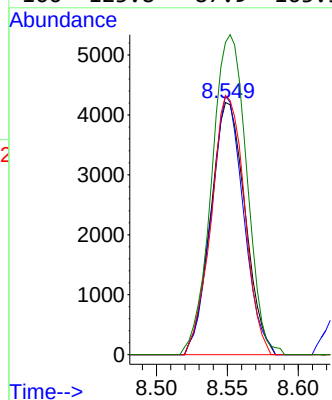


#47
Tetrachloroethene
Concen: 0.658 ug/L
RT: 8.549 min Scan# 21
Delta R.T. -0.004 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Instrument :
MSVOA_U
ClientSampleId :
GBQB7

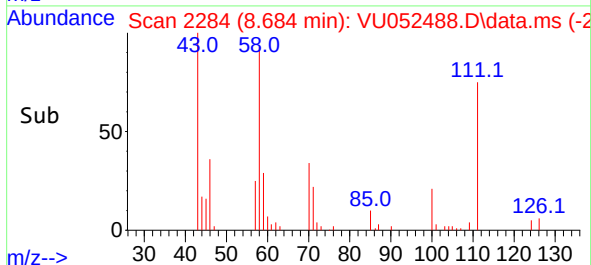
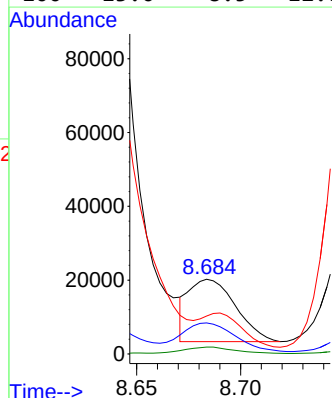
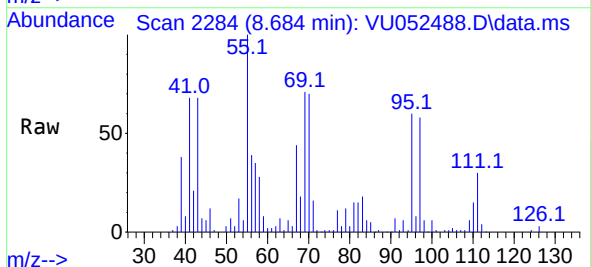


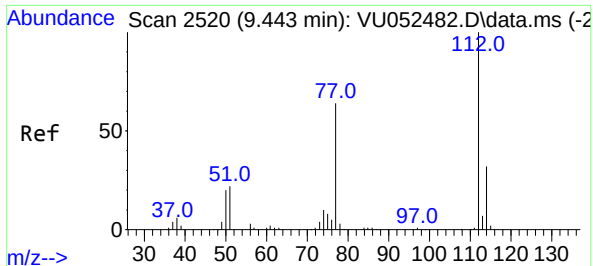
Tgt Ion:164 Resp: 7131
Ion Ratio Lower Upper
164 100
129 102.7 68.1 126.5
131 102.8 66.5 123.5
166 123.8 87.9 163.3



#48
2-Hexanone
Concen: 2.606 ug/L
RT: 8.684 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion: 43 Resp: 26614
Ion Ratio Lower Upper
43 100
58 52.5 44.1 66.1
57 46.8 14.6 21.8#
100 13.0 8.5 12.7#





#51

Chlorobenzene

Concen: 0.133 ug/L

RT: 9.442 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VU052488.D

Acq: 22 Dec 2022 13:55

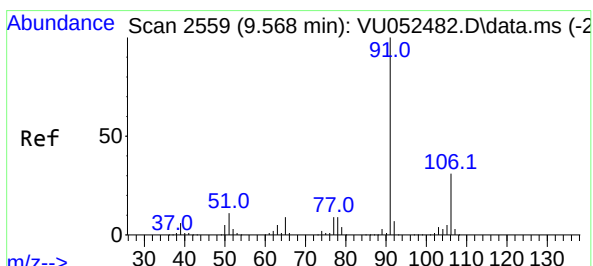
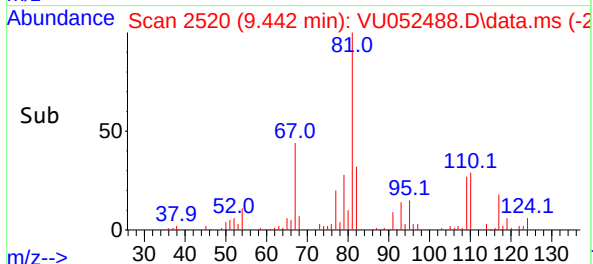
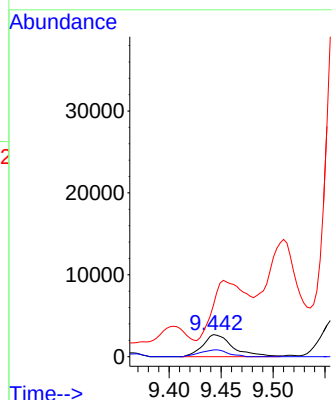
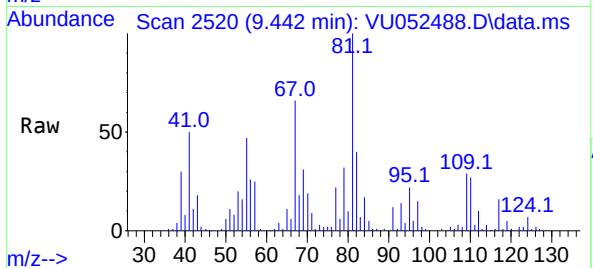
Instrument :

MSVOA_U

ClientSampleId :

GBQB7

Tgt Ion:112	Resp:	5420
Ion	Ratio	Lower Upper
112	100	
114	30.6	21.3 39.5
77	231.5	51.0 76.6#



#52

Ethylbenzene

Concen: 16.437 ug/L

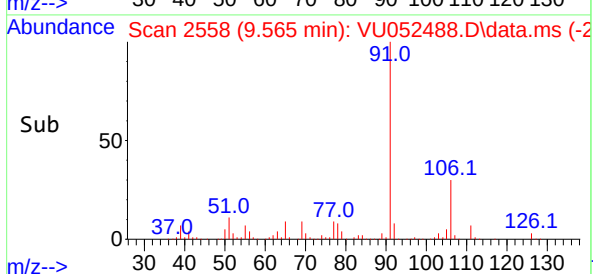
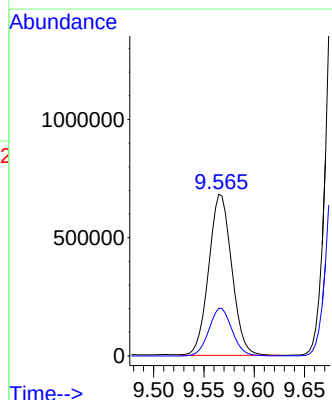
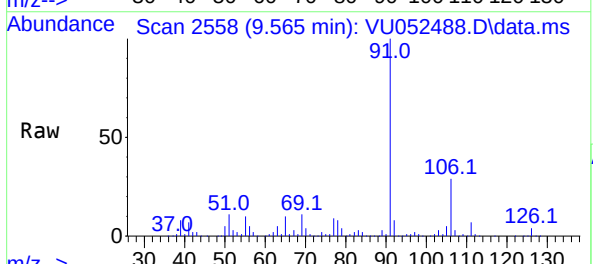
RT: 9.565 min Scan# 2558

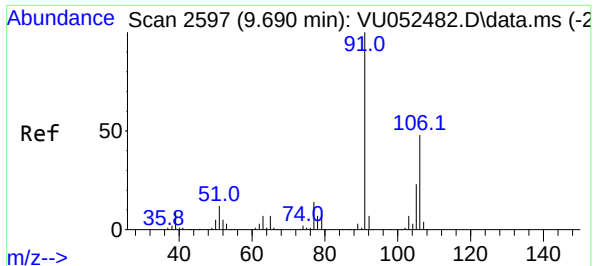
Delta R.T. -0.003 min

Lab File: VU052488.D

Acq: 22 Dec 2022 13:55

Tgt Ion: 91	Resp: 1083717
Ion Ratio	Lower Upper
91 100	
106 29.4	20.9 38.7

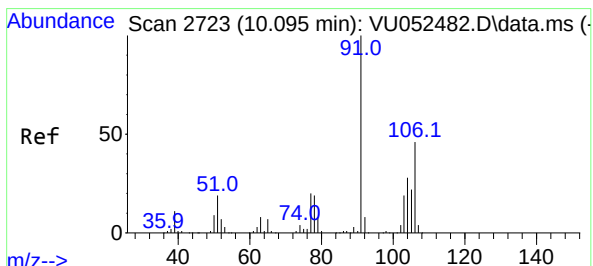
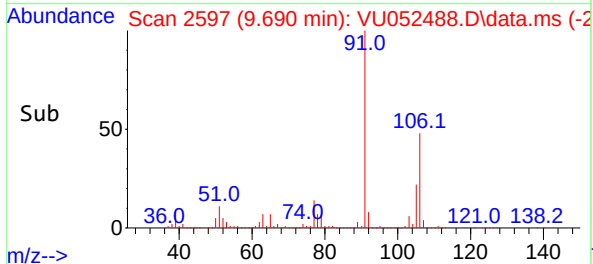
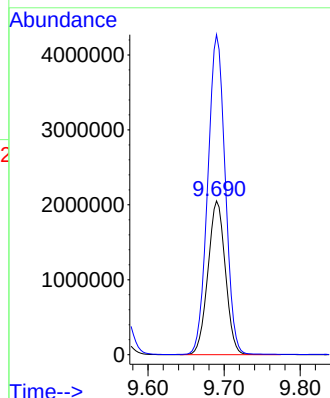
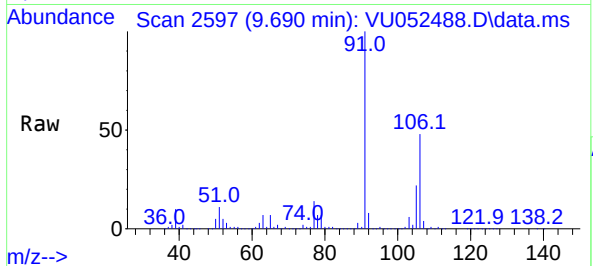




#53
m,p-Xylene
Concen: 134.041 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

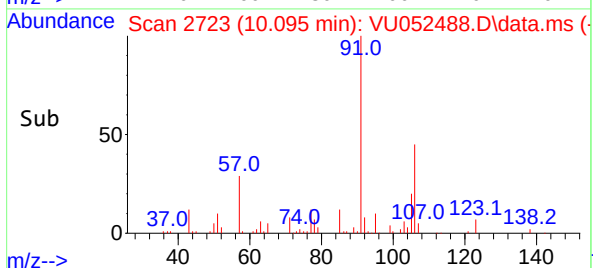
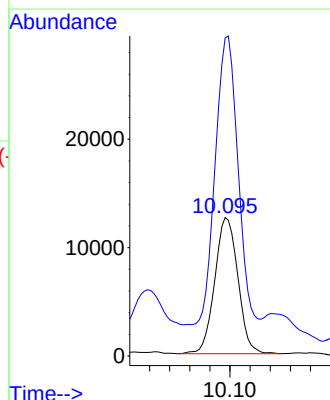
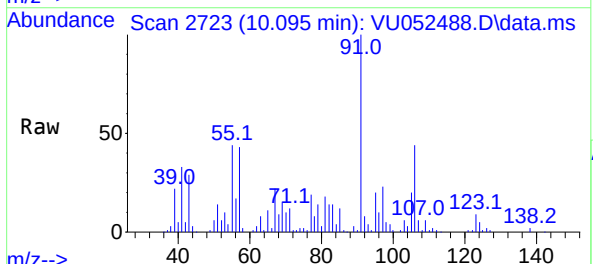
Instrument :
MSVOA_U
ClientSampleId :
GBQB7

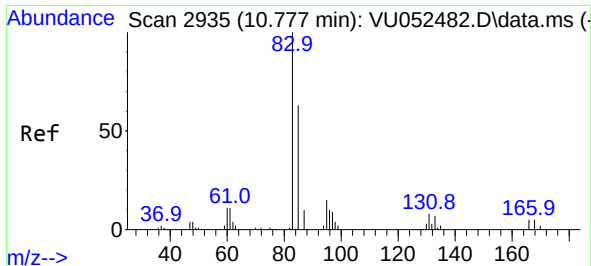
Tgt Ion:106 Resp: 3258769
Ion Ratio Lower Upper
106 100
91 208.2 148.2 275.2



#54
o-Xylene
Concen: 0.863 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. -0.003 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion:106 Resp: 20113
Ion Ratio Lower Upper
106 100
91 229.7 153.2 284.4

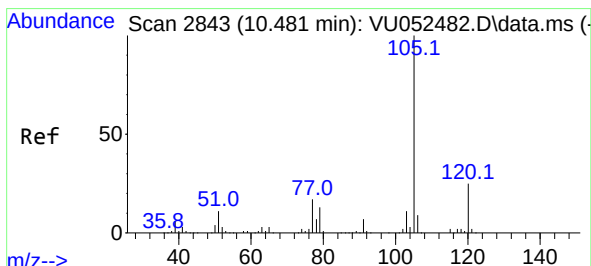
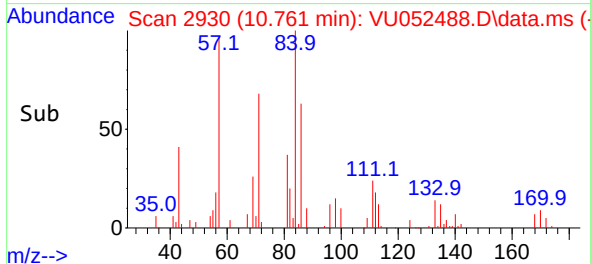
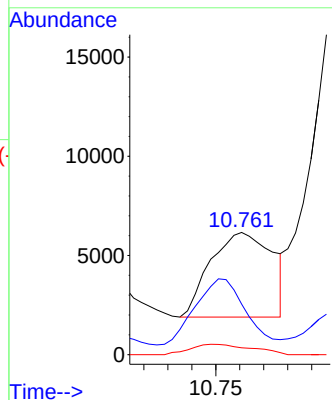
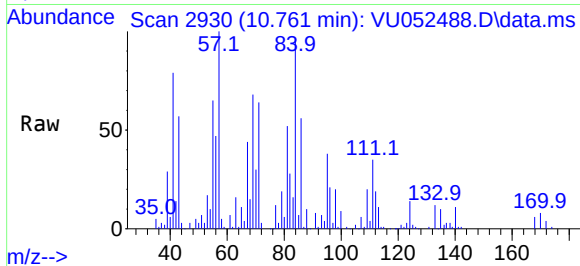




#57
1,1,2,2-Tetrachloroethane
Concen: 0.423 ug/L
RT: 10.761 min Scan# 2930
Delta R.T. -0.016 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

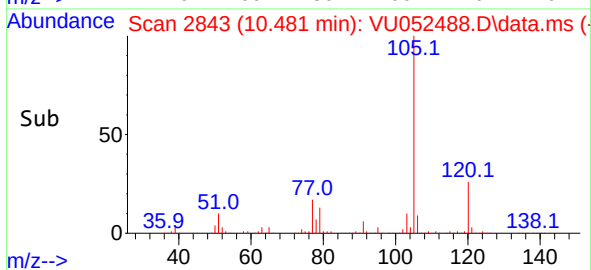
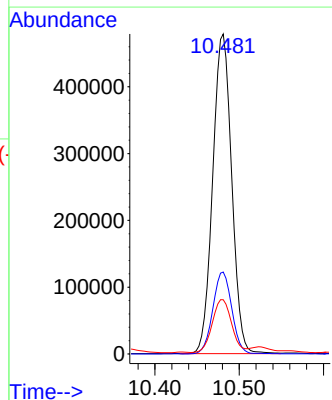
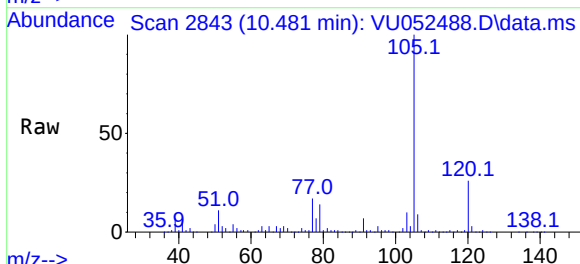
Instrument :
MSVOA_U
ClientSampleId :
GBQB7

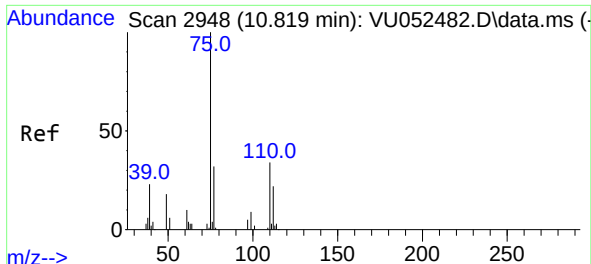
Tgt Ion: 83 Resp: 7677
Ion Ratio Lower Upper
83 100
85 41.3 44.7 83.1#
131 5.7 6.0 9.0#



#60
Isopropylbenzene
Concen: 11.424 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion:105 Resp: 747341
Ion Ratio Lower Upper
105 100
120 25.5 20.6 31.0
77 16.8 13.8 20.8

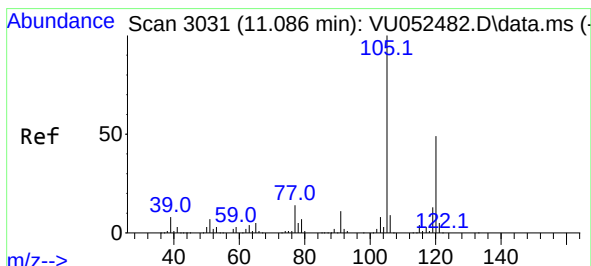
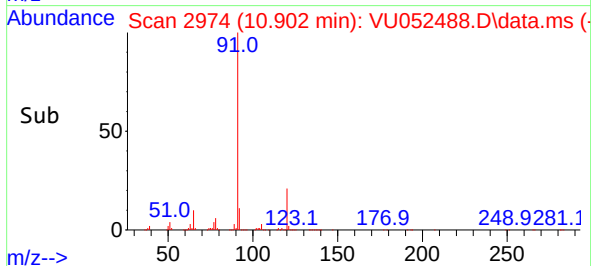
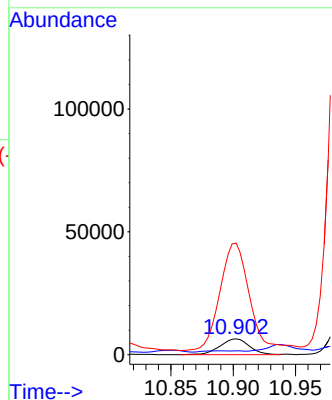
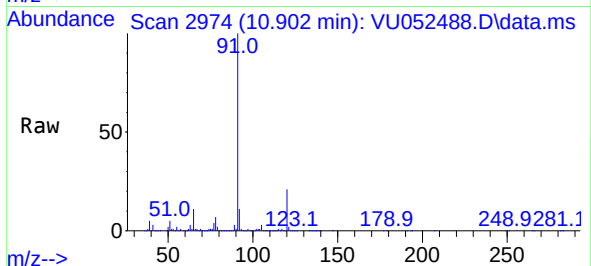




#61
1,2,3-Trichloropropane
Concen: 0.735 ug/L
RT: 10.902 min Scan# 2948
Delta R.T. 0.083 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

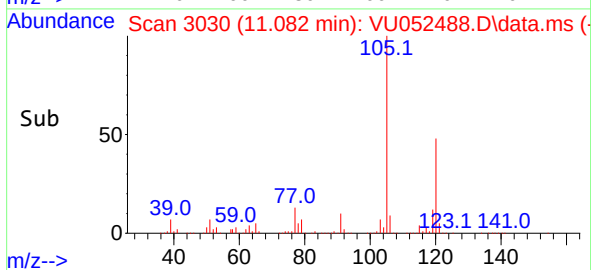
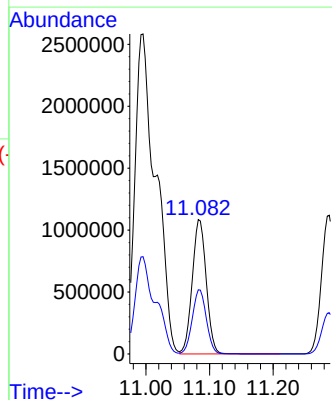
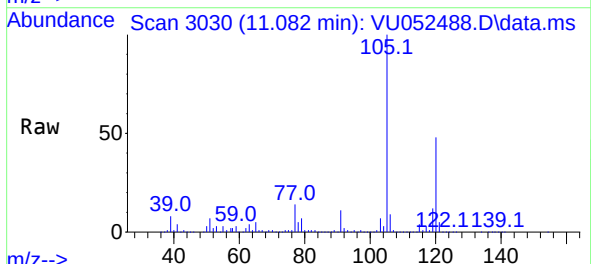
Instrument :
MSVOA_U
ClientSampleId :
GBQB7

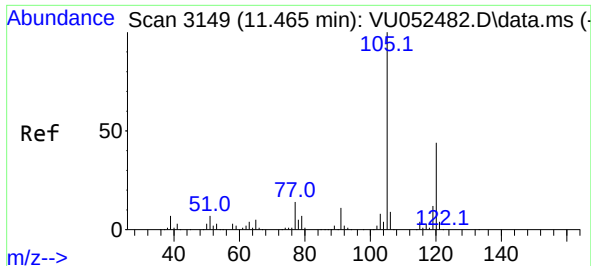
Tgt Ion: 75 Resp: 10646
Ion Ratio Lower Upper
75 100
110 37.4 27.9 41.9
77 680.4 25.9 38.9#



#62
1,3,5-Trimethylbenzene
Concen: 30.757 ug/L
RT: 11.082 min Scan# 3030
Delta R.T. -0.003 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Tgt Ion: 105 Resp: 1659470
Ion Ratio Lower Upper
105 100
120 48.0 38.6 57.8

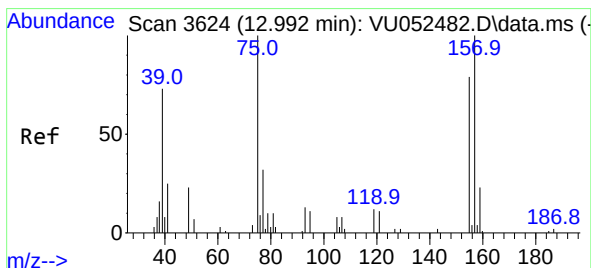
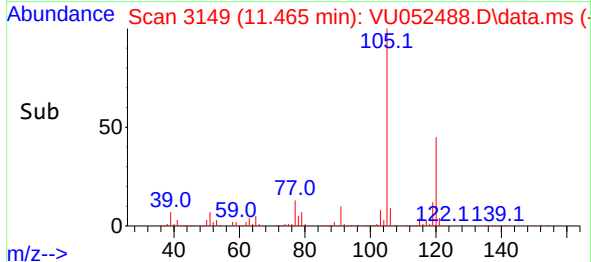
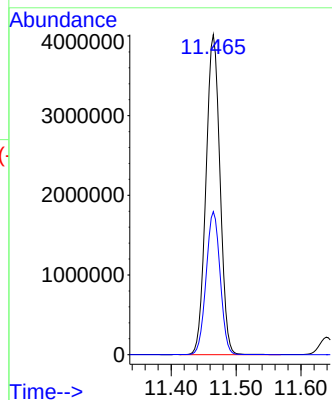
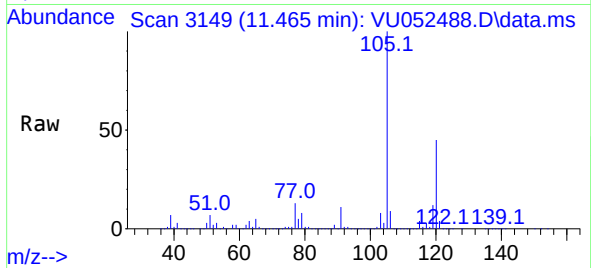




#63
1,2,4-Trimethylbenzene
Concen: 111.139 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

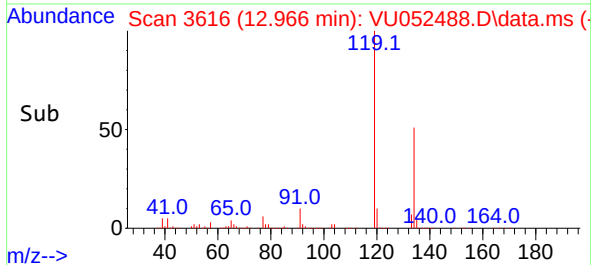
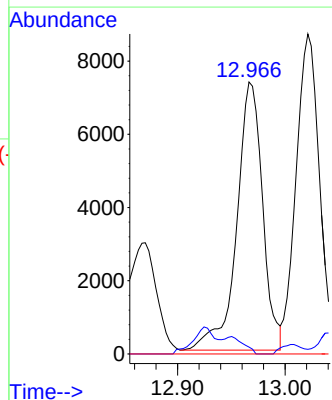
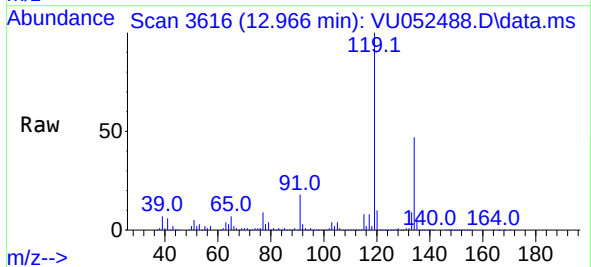
Instrument :
MSVOA_U
ClientSampleId :
GBQB7

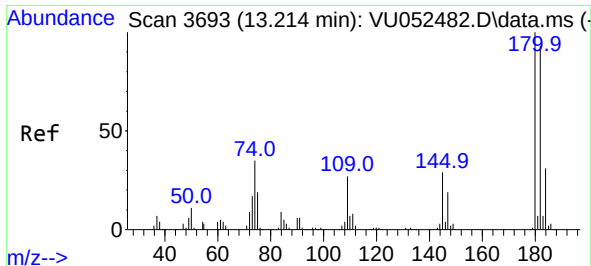
Tgt Ion:105 Resp: 6036585
Ion Ratio Lower Upper
105 100
120 44.6 35.6 53.4



#68
1,2-Dibromo-3-chloropropane
Concen: 3.742 ug/L
RT: 12.966 min Scan# 3616
Delta R.T. -0.026 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

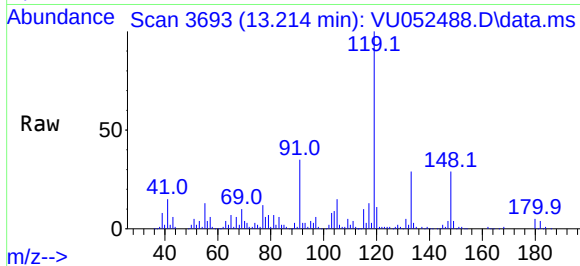
Tgt Ion: 75 Resp: 12263
Ion Ratio Lower Upper
75 100
155 2.5 62.2 93.2#
157 0.0 73.0 109.4#



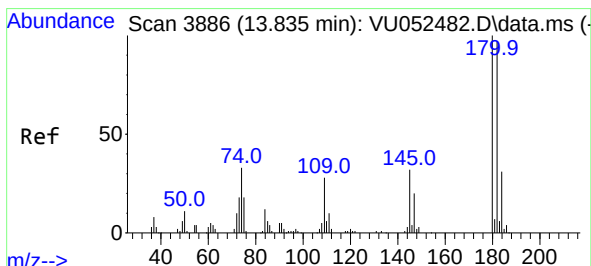
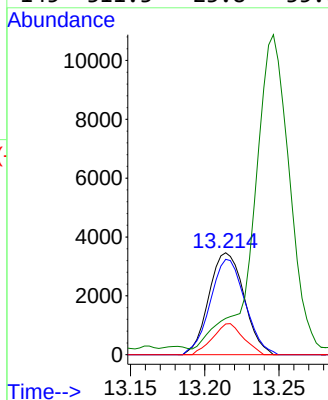
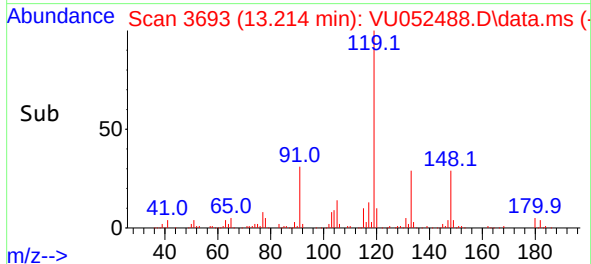


#69
1,3,5-Trichlorobenzene
Concen: 0.238 ug/L
RT: 13.214 min Scan# 3693
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

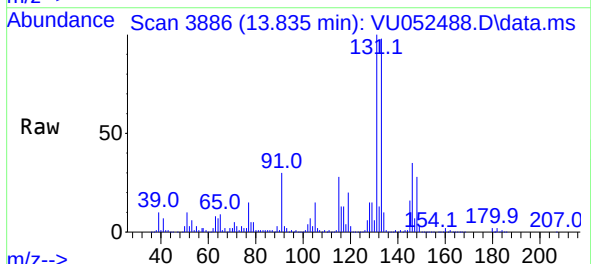
Instrument :
MSVOA_U
ClientSampleId :
GBQB7



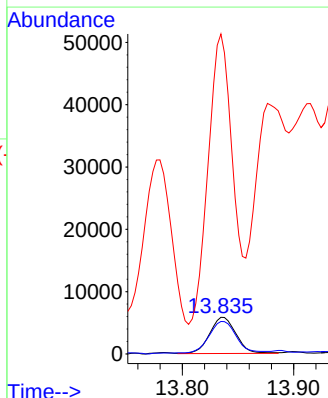
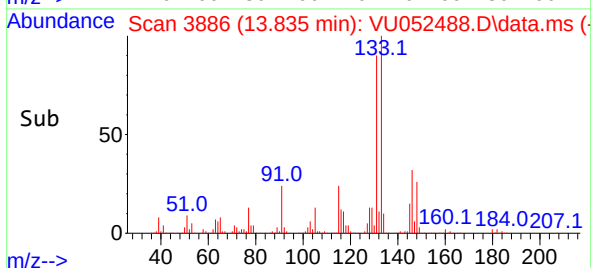
Tgt Ion:180 Resp: 5683
Ion Ratio Lower Upper
180 100
182 92.8 75.8 113.8
184 26.6 23.4 35.0
145 311.3 23.8 35.6#

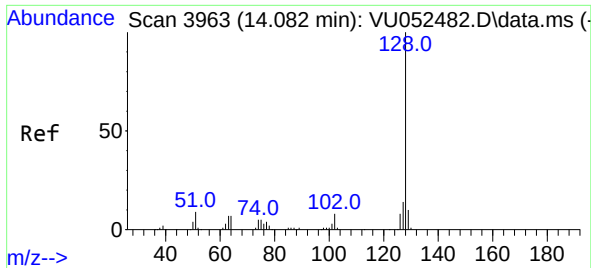


#70
1,2,4-trichlorobenzene
Concen: 0.474 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. -0.000 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55



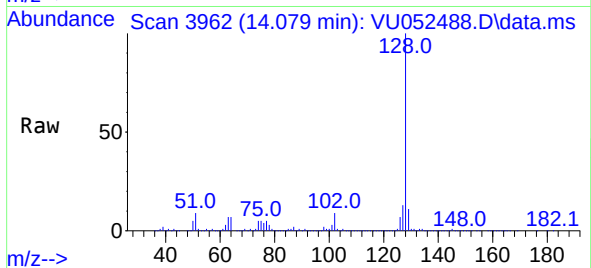
Tgt Ion:180 Resp: 9542
Ion Ratio Lower Upper
180 100
182 99.8 77.7 116.5
145 756.5 24.0 36.0#





#71
Naphthalene
Concen: 32.544 ug/L
RT: 14.079 min Scan# 3962
Delta R.T. -0.003 min
Lab File: VU052488.D
Acq: 22 Dec 2022 13:55

Instrument :
MSVOA_U
ClientSampleId :
GBQB7



Tgt Ion:128 Resp: 1324343
Ion Ratio Lower Upper
128 100
129 12.4 8.7 13.1
127 13.5 10.6 16.0

