

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U020123\
 Data File : U052896.D
 Acq On : 01 Feb 2023 11:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050147

Quant Time: Feb 01 20:00:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 01 00:53:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	240693	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	231905	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	139202	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	79336	45.795	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.600%
7) Chloroethane-d5	1.903	69	73771	51.680	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.360%
11) 1,1-Dichloroethene-d2	2.562	63	164065	47.615	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.220%
21) 2-Butanone-d5	4.623	46	83311	77.847	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	77.850%
24) Chloroform-d	5.057	84	177767	48.081	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.160%
26) 1,2-Dichloroethane-d4	5.694	65	114711	48.591	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.180%
32) Benzene-d6	5.723	84	334174	47.166	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.340%
36) 1,2-Dichloropropane-d6	6.684	67	97831	47.081	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.160%
41) Toluene-d8	7.893	98	312486	48.435	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.880%
43) trans-1,3-Dichloroprop...	8.176	79	47842	45.936	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.880%
47) 2-Hexanone-d5	8.639	63	61179	83.792	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	83.790%
56) 1,1,2,2-Tetrachloroeth...	10.755	84	140300	45.698	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.400%
66) 1,2-Dichlorobenzene-d4	12.189	152	120235	44.483	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.960%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	112044	49.713	ug/L	98
3) Chloromethane	1.520	50	96046	51.669	ug/L	98
5) Vinyl chloride	1.604	62	107726	52.385	ug/L	98
6) Bromomethane	1.851	94	66902	51.586	ug/L	98
8) Chloroethane	1.922	64	71931	55.690	ug/L	95
9) Trichlorofluoromethane	2.128	101	184344	53.520	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	98980	50.982	ug/L	98
12) 1,1-Dichloroethene	2.575	96	87775	49.296	ug/L	95
13) Acetone	2.629	43	138355	105.852	ug/L	97
14) Carbon disulfide	2.787	76	253360	47.113	ug/L	99
15) Methyl Acetate	2.945	43	76766	43.590	ug/L	99
16) Methylene chloride	3.041	84	103836	49.024	ug/L	96
17) trans-1,2-Dichloroethene	3.346	96	92373	48.006	ug/L	98
18) Methyl tert-butyl Ether	3.359	73	277529	49.051	ug/L	99
19) 1,1-Dichloroethane	3.861	63	171847	50.923	ug/L	97
20) cis-1,2-Dichloroethene	4.662	96	100153	48.750	ug/L	96
22) 2-Butanone	4.700	43	137814	98.645	ug/L	98
23) Bromochloromethane	4.967	128	55917	48.469	ug/L	97
25) Chloroform	5.083	83	193247	51.010	ug/L	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020123\
 Data File : VU052896.D
 Acq On : 01 Feb 2023 11:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

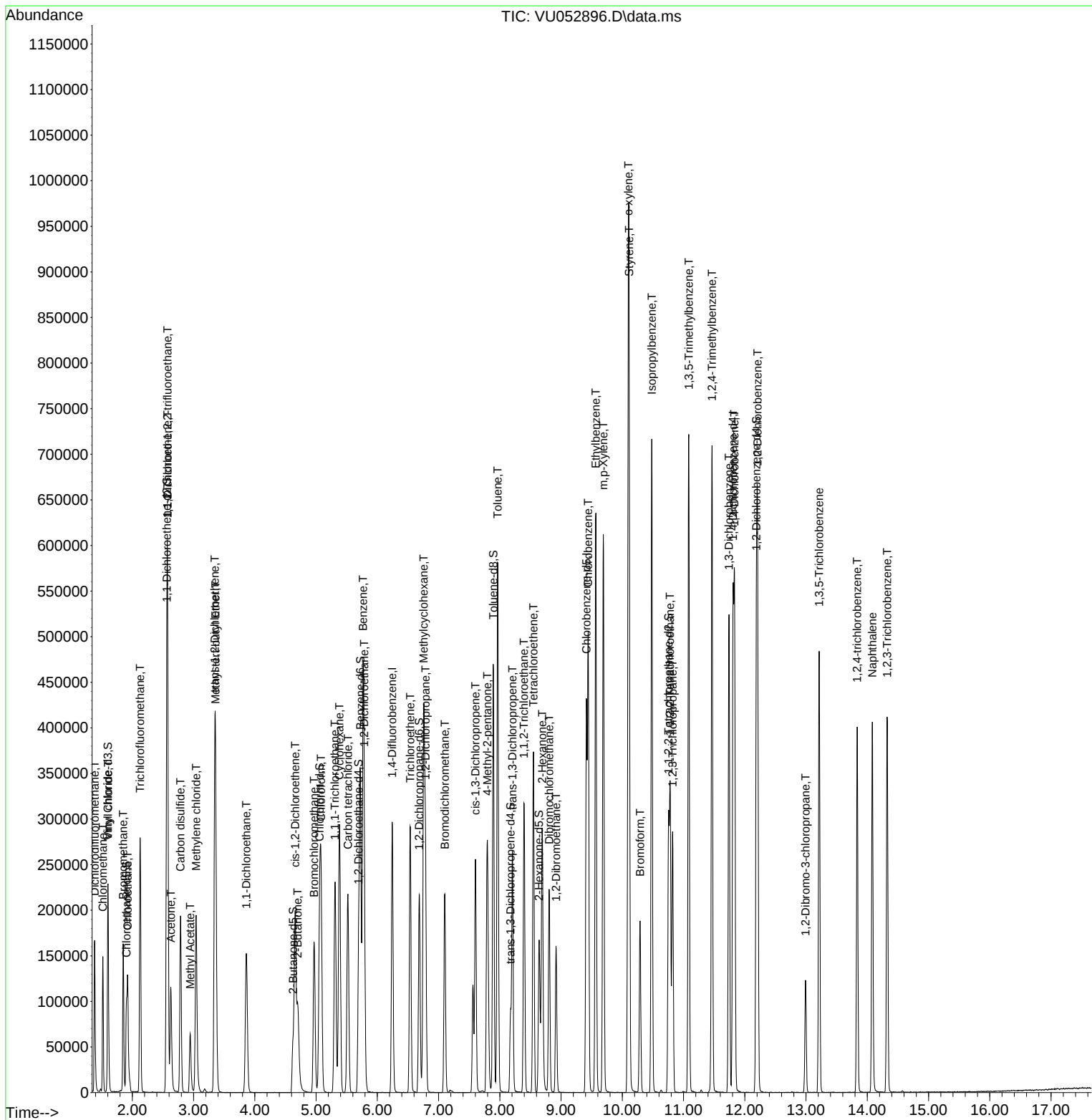
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050147

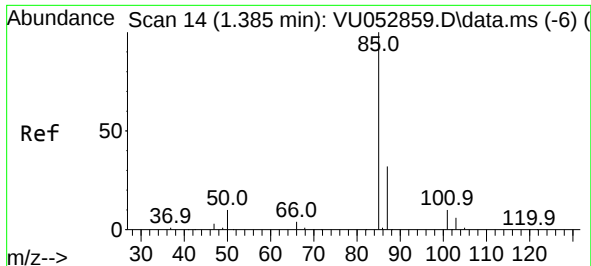
Quant Time: Feb 01 20:00:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 01 00:53:48 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.787	62	148459	49.501	ug/L	98
29) Cyclohexane	5.382	56	137349	49.980	ug/L	99
30) 1,1,1-Trichloroethane	5.308	97	174693	51.212	ug/L	99
31) Carbon tetrachloride	5.520	117	153966	52.068	ug/L	99
33) Benzene	5.768	78	400647	50.753	ug/L	100
34) Trichloroethene	6.539	95	98126	48.905	ug/L	97
35) Methylcyclohexane	6.758	83	158882	50.031	ug/L	98
37) 1,2-Dichloropropane	6.787	63	98689	50.850	ug/L	99
38) Bromodichloromethane	7.102	83	143686	50.451	ug/L	99
39) cis-1,3-Dichloropropene	7.604	75	150307	49.440	ug/L	97
40) 4-Methyl-2-pentanone	7.796	43	209263	91.521	ug/L	100
42) Toluene	7.967	91	414849	51.277	ug/L	98
44) trans-1,3-Dichloropropene	8.208	75	148870	49.827	ug/L	99
45) 1,1,2-Trichloroethane	8.394	97	100009	50.391	ug/L	98
46) Tetrachloroethene	8.549	164	84036	48.640	ug/L	98
48) 2-Hexanone	8.693	43	193914	100.248	ug/L	98
49) Dibromochloromethane	8.806	129	117849	49.654	ug/L	99
50) 1,2-Dibromoethane	8.919	107	103001	48.220	ug/L	99
51) Chlorobenzene	9.443	112	273062	49.057	ug/L	100
52) Ethylbenzene	9.568	91	437271	50.575	ug/L	99
53) m,p-Xylene	9.690	106	180656	51.613	ug/L	99
54) o-xylene	10.099	106	172027	51.483	ug/L	95
55) Styrene	10.111	104	308415	53.788	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.780	83	158881	49.466	ug/L	100
59) Bromoform	10.291	173	87167	45.696	ug/L	98
60) 1,2,3-Trichloropropane	10.822	75	120858	44.759	ug/L	98
61) Isopropylbenzene	10.481	105	452311	50.310	ug/L	100
62) 1,3,5-Trimethylbenzene	11.086	105	380198	50.789	ug/L	99
63) 1,2,4-Trimethylbenzene	11.465	105	379621	52.407	ug/L	99
64) 1,3-Dichlorobenzene	11.742	146	220486	48.609	ug/L	97
65) 1,4-Dichlorobenzene	11.832	146	218055	46.437	ug/L	99
67) 1,2-Dichlorobenzene	12.208	146	223821	48.785	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.992	75	31918	41.239	ug/L	97
69) 1,3,5-Trichlorobenzene	13.214	180	157454	46.890	ug/L	98
70) 1,2,4-trichlorobenzene	13.835	180	123710	43.942	ug/L	97
71) Naphthalene	14.082	128	326535	40.361	ug/L	100
72) 1,2,3-Trichlorobenzene	14.327	180	131184	44.091	ug/L	99

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

Quant Time: Feb 01 20:00:28 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM012623WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 01 00:53:48 2023
Response via : Initial Calibration

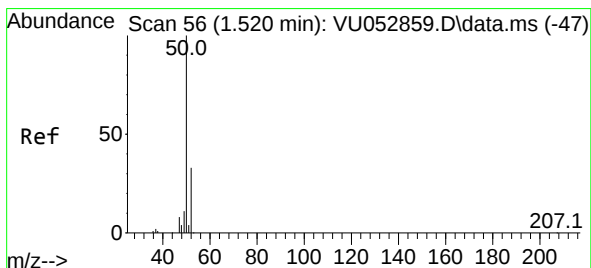
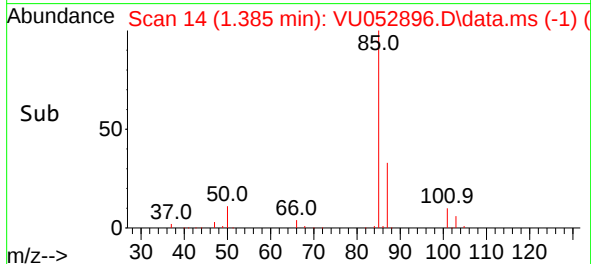
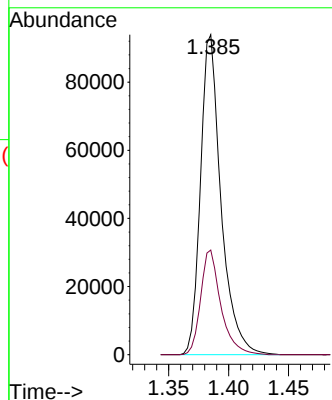
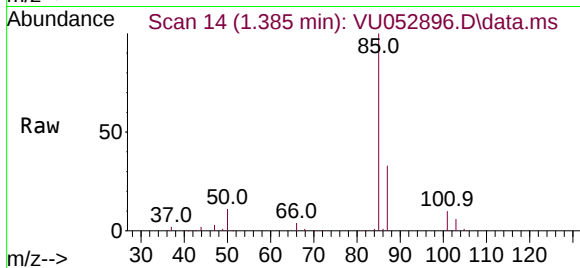




#2
Dichlorodifluoromethane
Concen: 49.713 ug/L
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

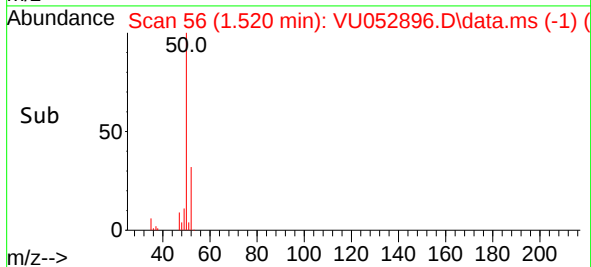
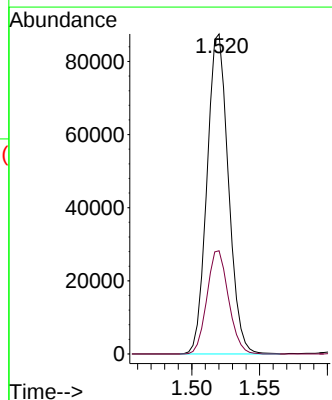
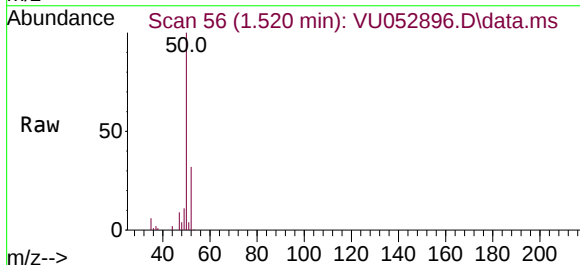
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

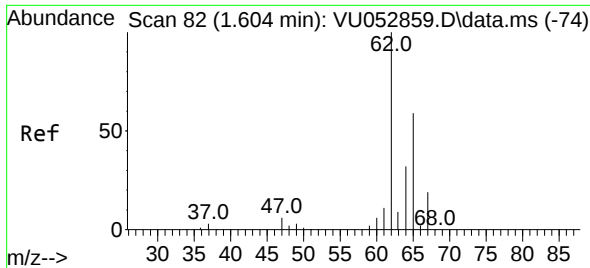
Tgt Ion: 85 Resp: 112044
Ion Ratio Lower Upper
85 100
87 32.1 26.4 39.6



#3
Chloromethane
Concen: 51.669 ug/L
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 50 Resp: 96046
Ion Ratio Lower Upper
50 100
52 32.2 23.4 43.4

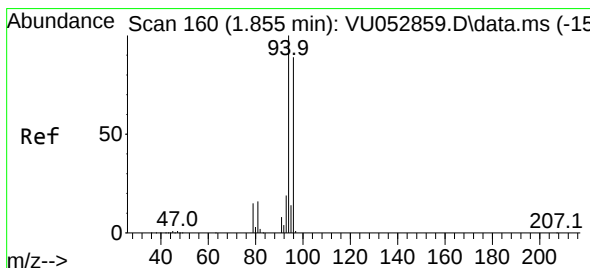
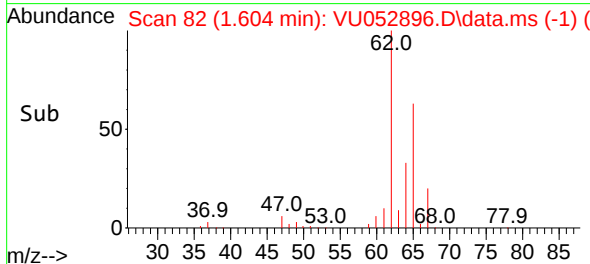
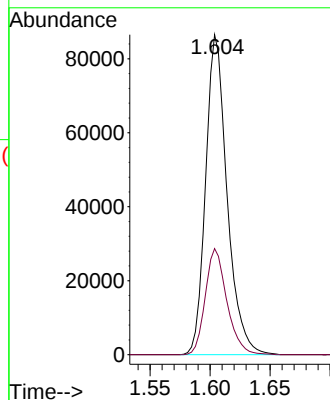
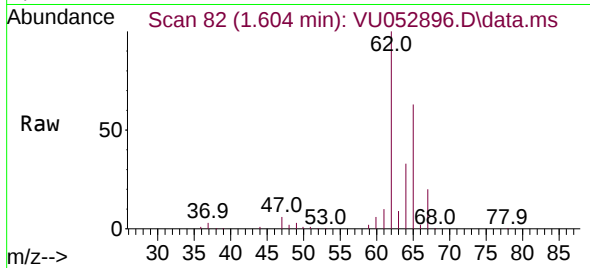




#5
 Vinyl chloride
 Concen: 52.385 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU052896.D
 Acq: 01 Feb 2023 11:02

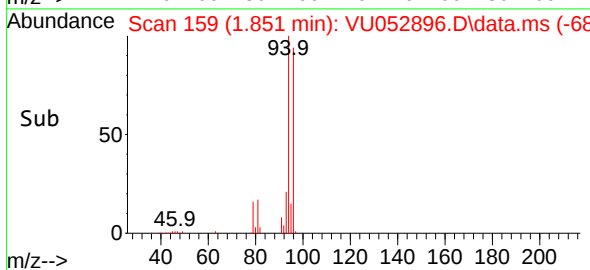
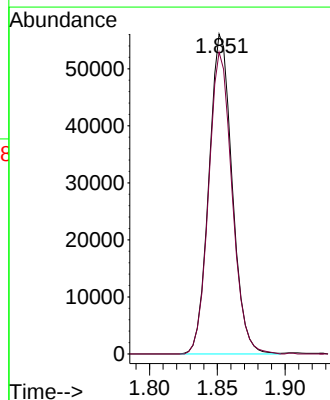
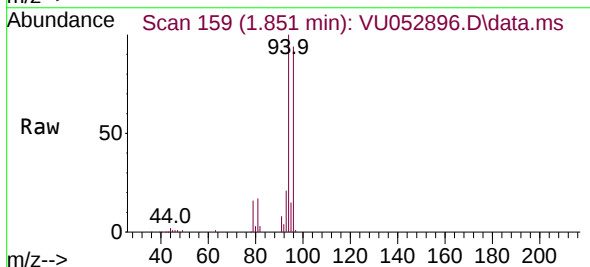
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050147

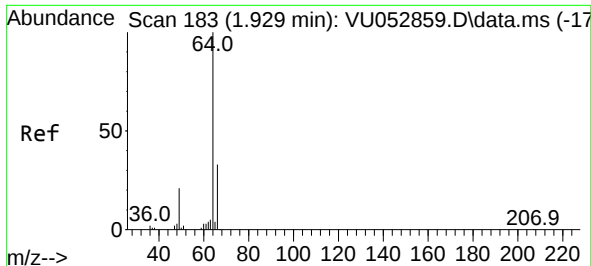
Tgt Ion: 62 Resp: 107726
 Ion Ratio Lower Upper
 62 100
 64 33.1 22.4 41.6



#6
 Bromomethane
 Concen: 51.586 ug/L
 RT: 1.851 min Scan# 159
 Delta R.T. -0.006 min
 Lab File: VU052896.D
 Acq: 01 Feb 2023 11:02

Tgt Ion: 94 Resp: 66902
 Ion Ratio Lower Upper
 94 100
 96 94.4 67.8 125.8

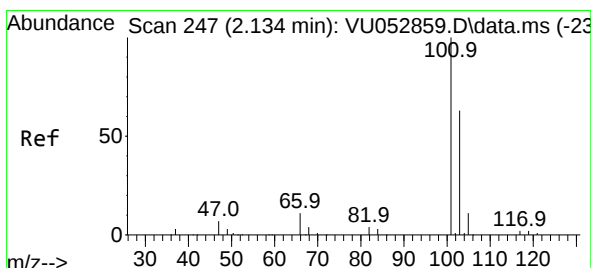
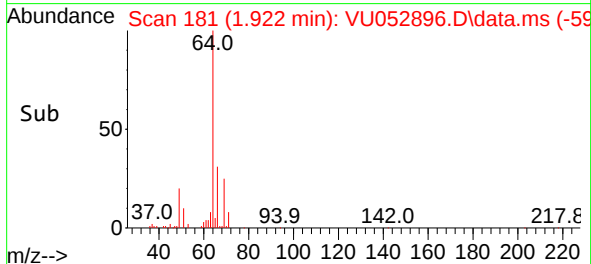
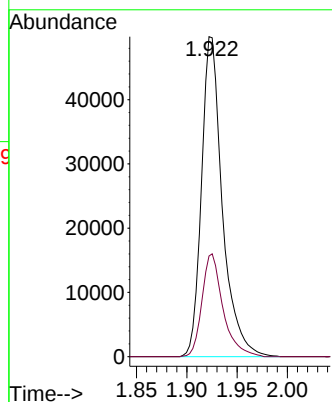
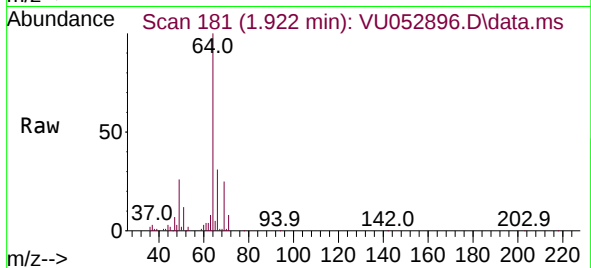




#8
Chloroethane
Concen: 55.690 ug/L
RT: 1.922 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

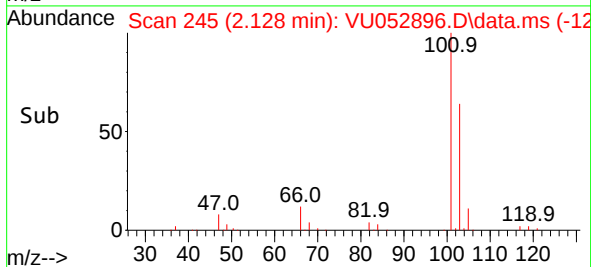
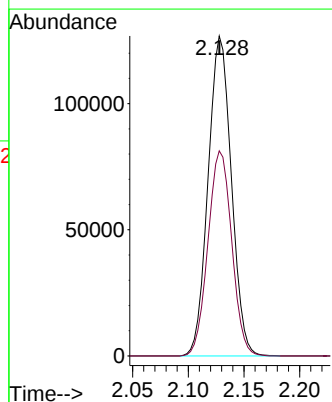
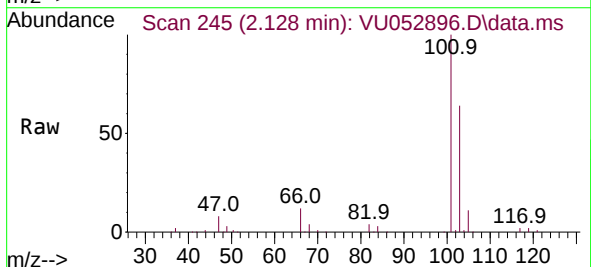
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

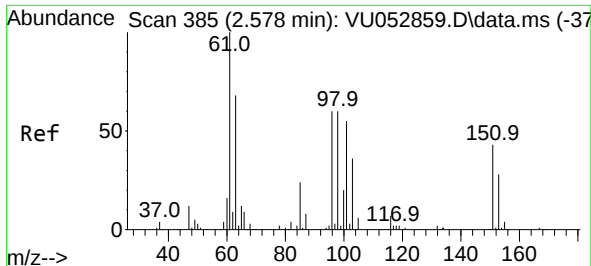
Tgt Ion: 64 Resp: 71931
Ion Ratio Lower Upper
64 100
66 31.5 24.1 44.7



#9
Trichlorofluoromethane
Concen: 53.520 ug/L
RT: 2.128 min Scan# 245
Delta R.T. -0.006 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion:101 Resp: 184344
Ion Ratio Lower Upper
101 100
103 65.3 52.0 78.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 50.982 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

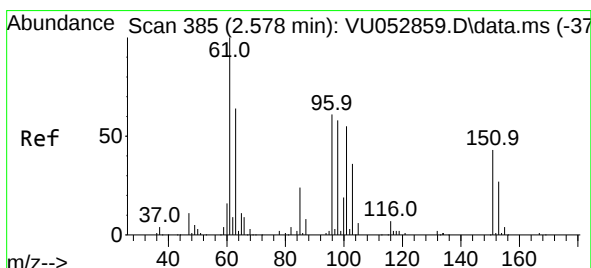
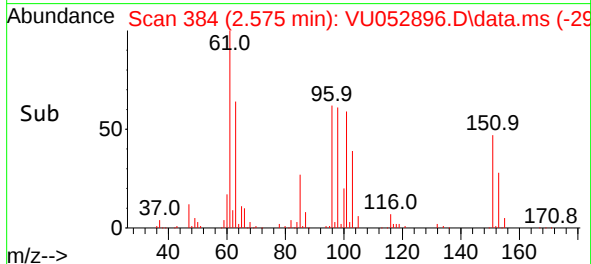
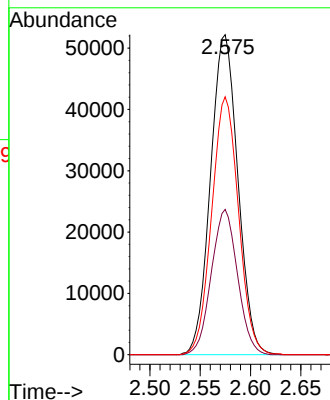
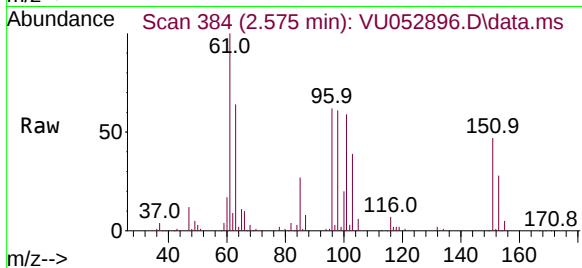
Tgt Ion:101 Resp: 98980

Ion Ratio Lower Upper

101 100

85 43.4 32.9 49.3

151 78.9 62.6 94.0



#12

1,1-Dichloroethene

Concen: 49.296 ug/L

RT: 2.575 min Scan# 384

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

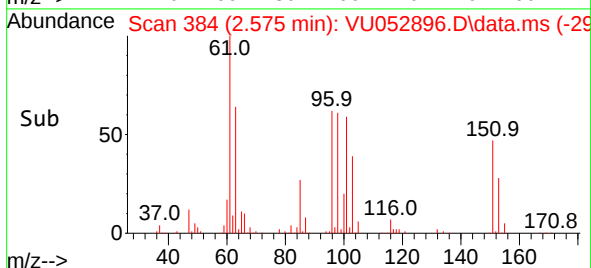
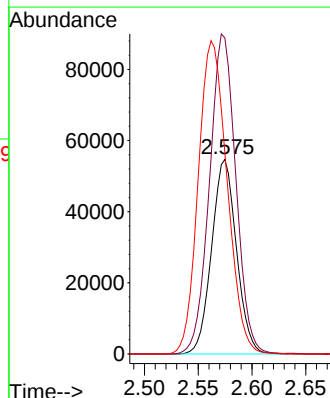
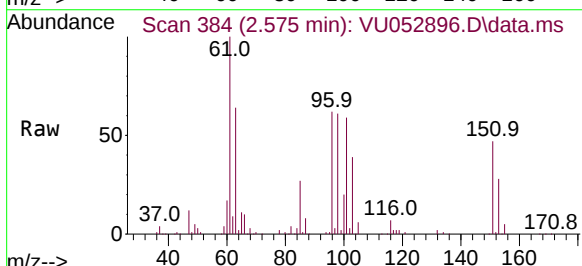
Tgt Ion: 96 Resp: 87775

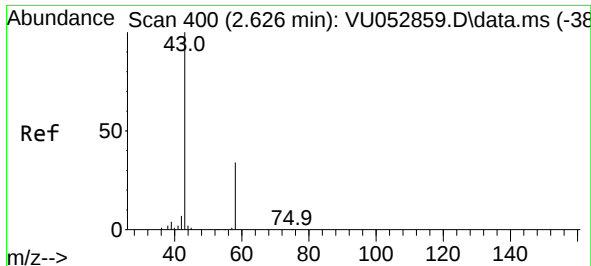
Ion Ratio Lower Upper

96 100

61 162.4 114.3 212.3

63 103.5 80.6 149.6





#13

Acetone

Concen: 105.852 ug/L

RT: 2.629 min Scan# 401

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

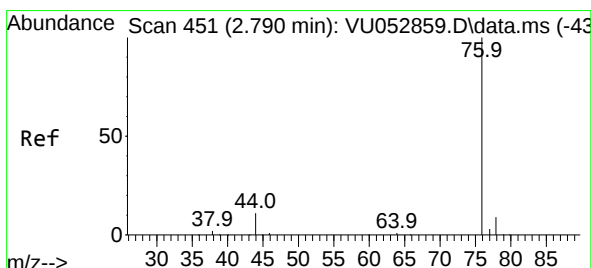
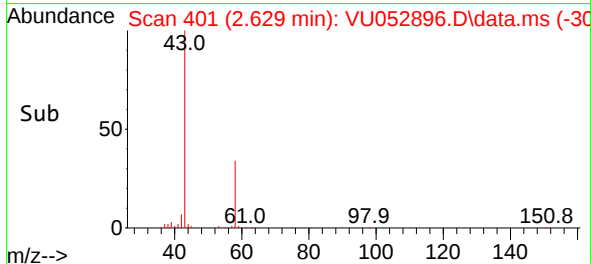
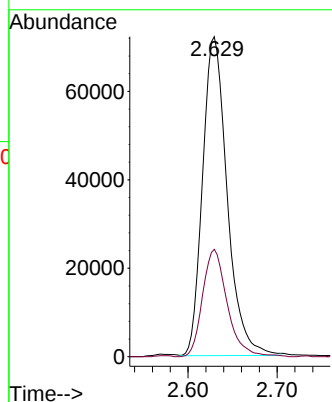
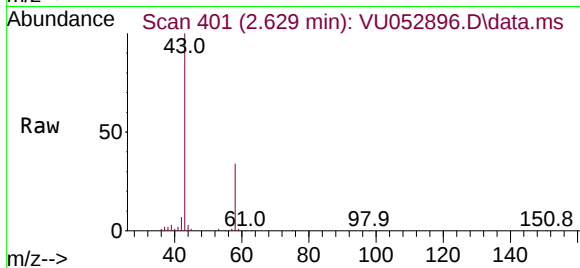
VSTD050147

Tgt Ion: 43 Resp: 138355

Ion Ratio Lower Upper

43 100

58 33.5 0.0 70.2



#14

Carbon disulfide

Concen: 47.113 ug/L

RT: 2.787 min Scan# 450

Delta R.T. -0.003 min

Lab File: VU052896.D

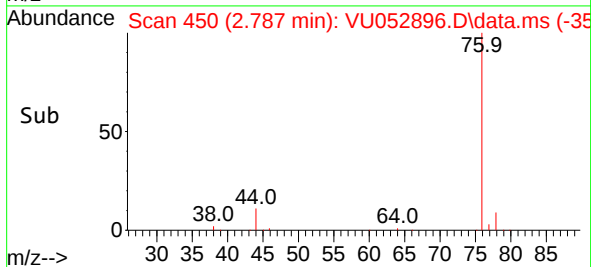
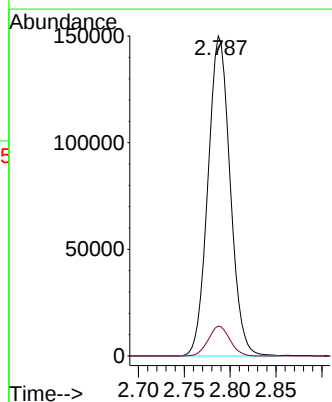
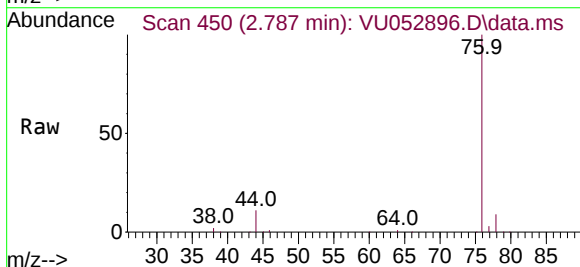
Acq: 01 Feb 2023 11:02

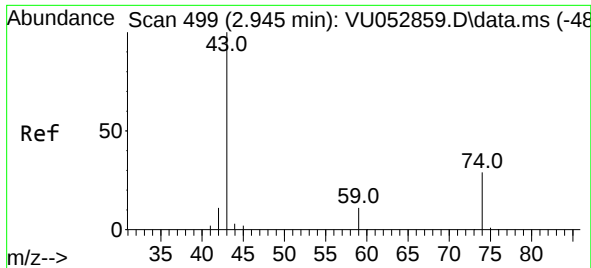
Tgt Ion: 76 Resp: 253360

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7

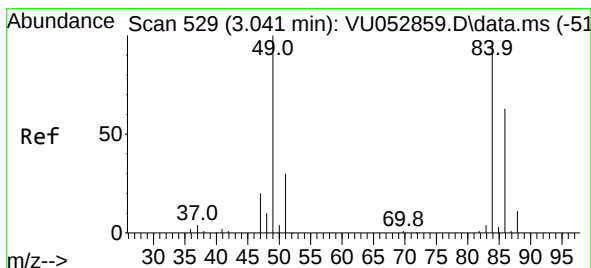
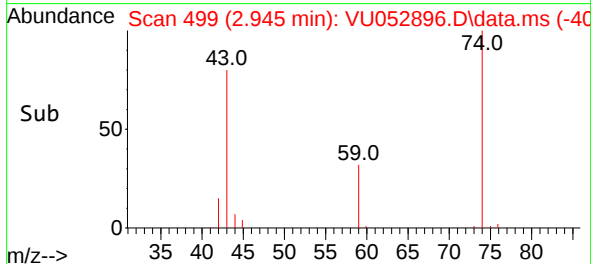
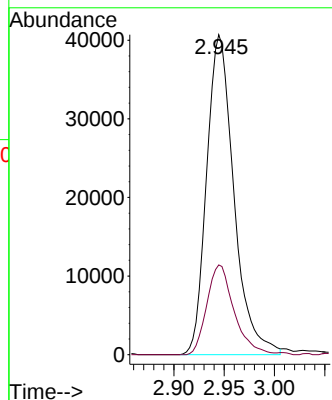
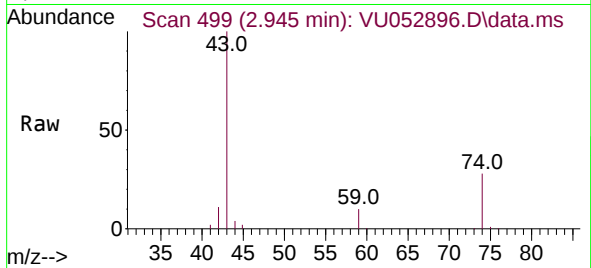




#15
Methyl Acetate
Concen: 43.590 ug/L
RT: 2.945 min Scan# 499
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

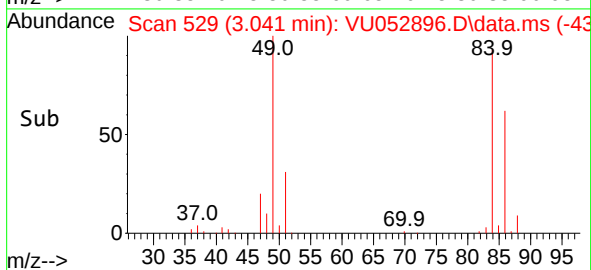
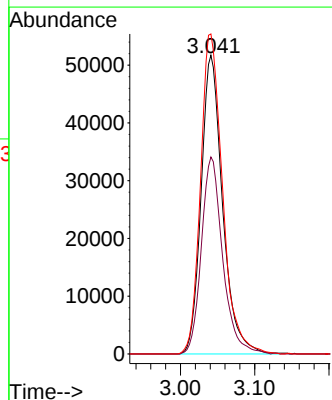
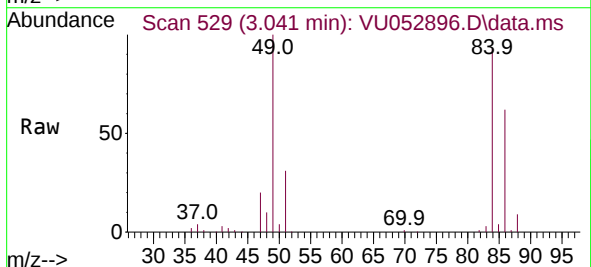
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

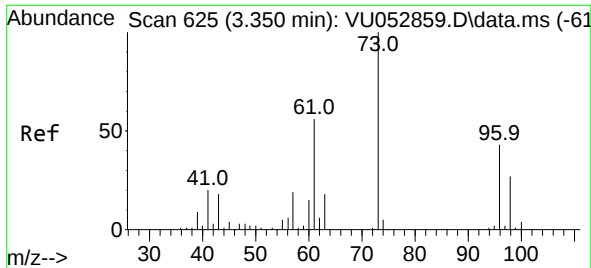
Tgt Ion: 43 Resp: 76766
Ion Ratio Lower Upper
43 100
74 27.9 22.0 33.0



#16
Methylene chloride
Concen: 49.024 ug/L
RT: 3.041 min Scan# 529
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 84 Resp: 103836
Ion Ratio Lower Upper
84 100
86 65.9 43.4 80.6
49 107.1 72.4 134.5

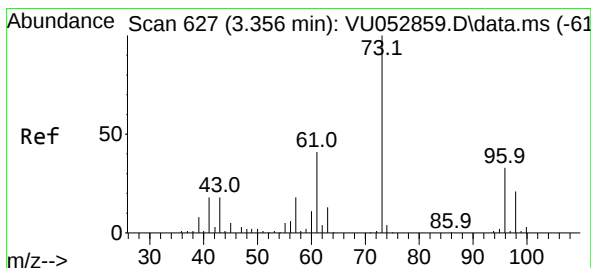
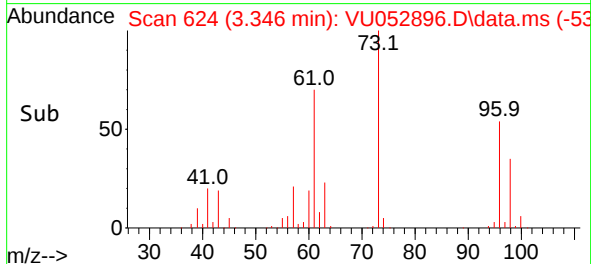
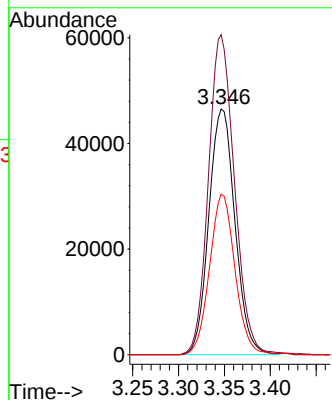
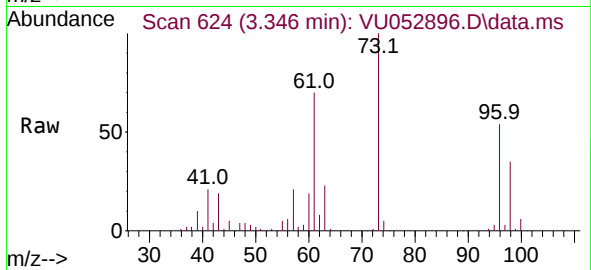




#17
trans-1,2-Dichloroethene
Concen: 48.006 ug/L
RT: 3.346 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

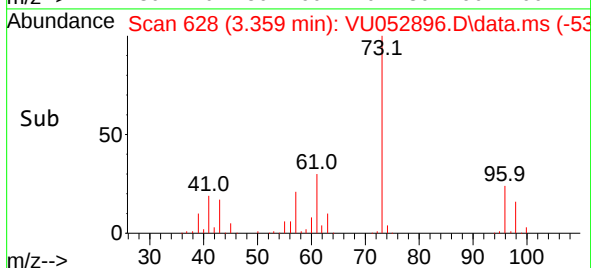
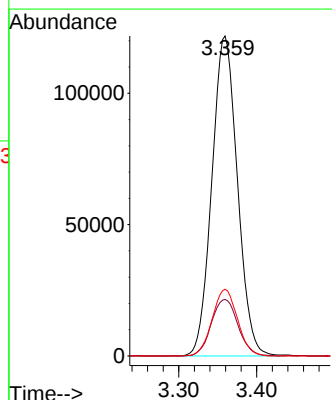
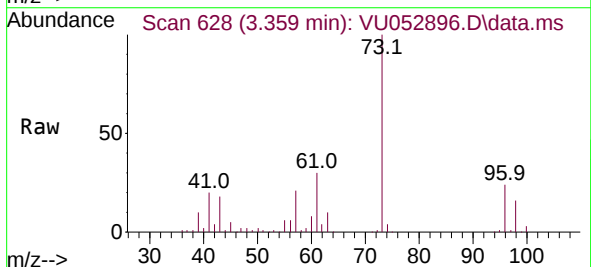
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

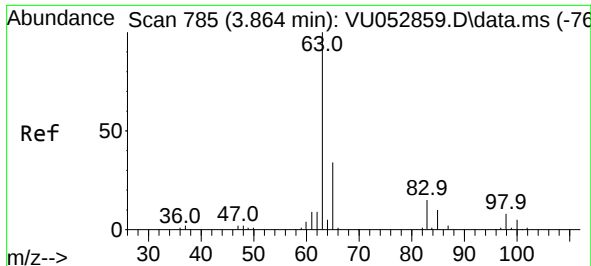
Tgt Ion: 96 Resp: 92373
Ion Ratio Lower Upper
96 100
61 130.2 92.7 172.3
98 65.3 44.7 82.9



#18
Methyl tert-butyl Ether
Concen: 49.051 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 73 Resp: 277529
Ion Ratio Lower Upper
73 100
43 18.5 14.2 21.2
57 20.7 16.3 24.5





#19

1,1-Dichloroethane

Concen: 50.923 ug/L

RT: 3.861 min Scan# 785

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

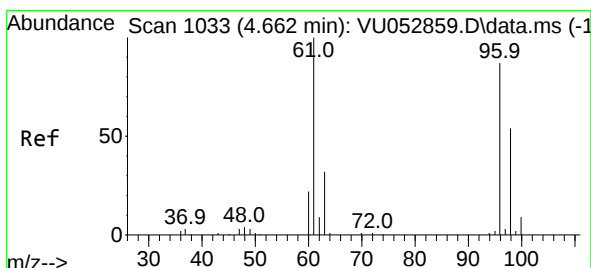
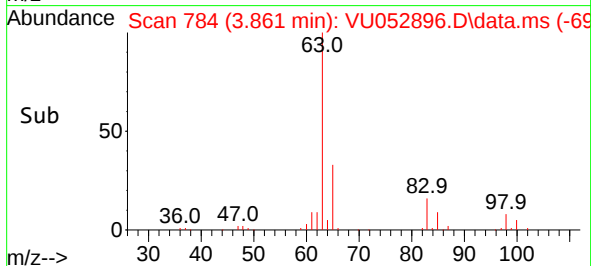
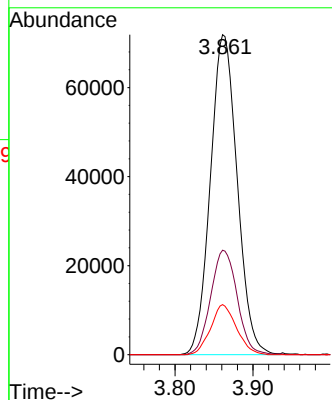
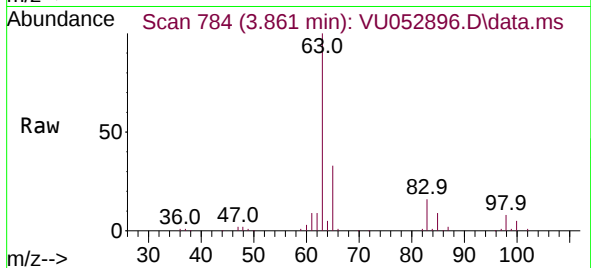
Tgt Ion: 63 Resp: 171847

Ion Ratio Lower Upper

63 100

65 32.7 22.4 41.6

83 15.6 9.2 17.2



#20

cis-1,2-Dichloroethene

Concen: 48.750 ug/L

RT: 4.662 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

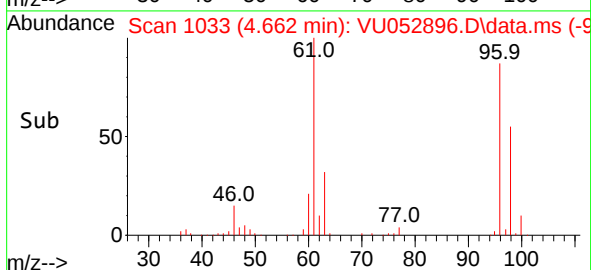
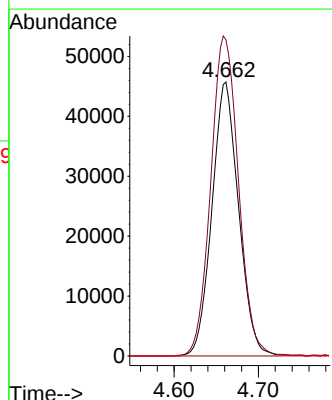
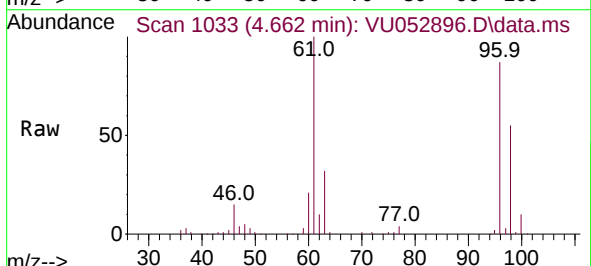
Tgt Ion: 96 Resp: 100153

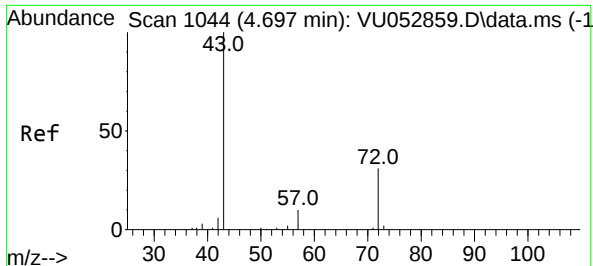
Ion Ratio Lower Upper

96 100

61 115.5 84.1 156.1

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 98.645 ug/L

RT: 4.700 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

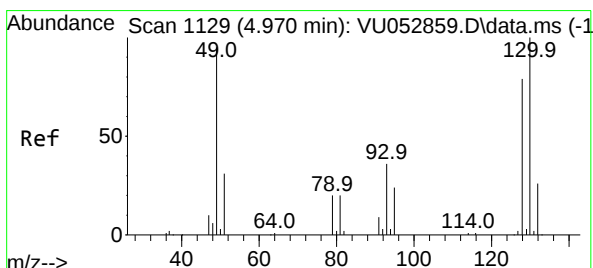
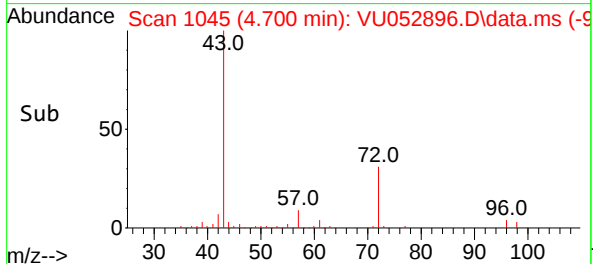
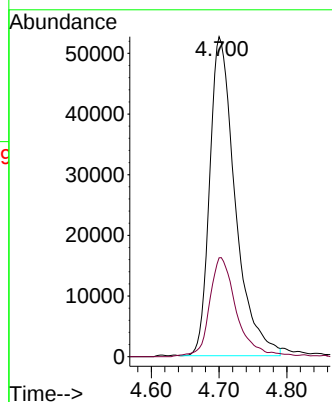
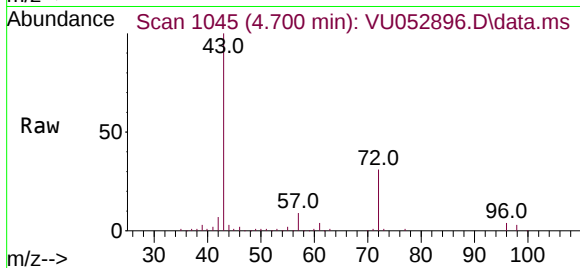
VSTD050147

Tgt Ion: 43 Resp: 137814

Ion Ratio Lower Upper

43 100

72 32.0 15.5 46.5



#23

Bromochloromethane

Concen: 48.469 ug/L

RT: 4.967 min Scan# 1128

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Tgt Ion:128 Resp: 55917

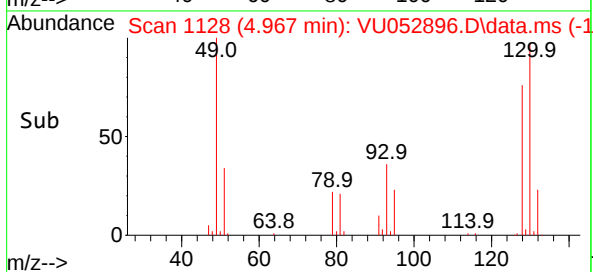
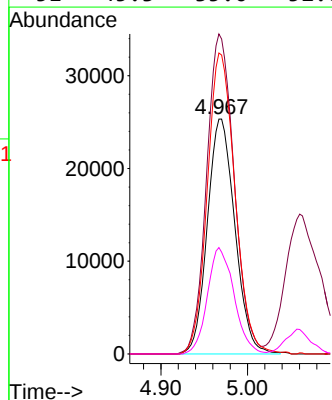
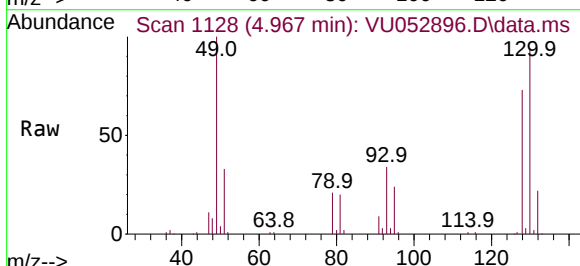
Ion Ratio Lower Upper

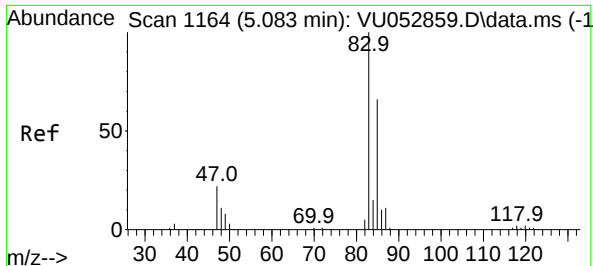
128 100

49 136.2 90.1 167.3

130 128.1 90.1 167.3

51 45.3 35.0 52.6

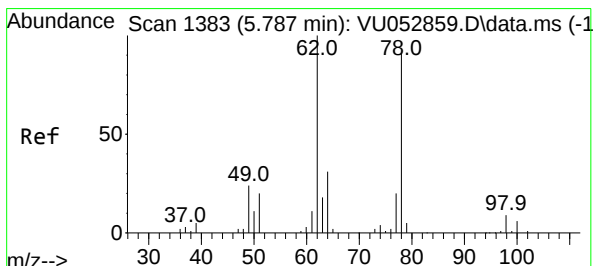
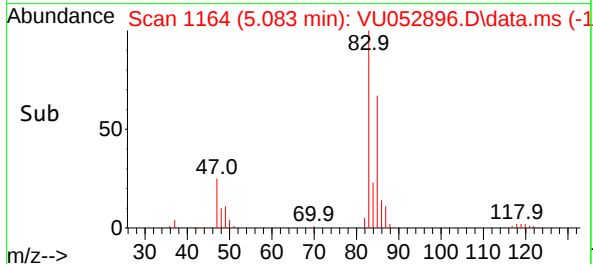
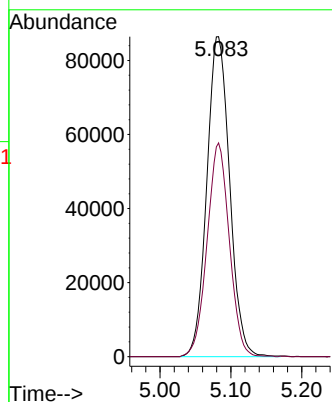
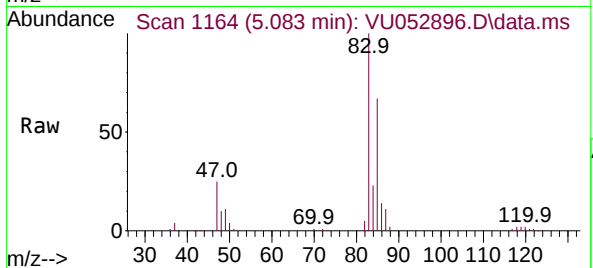




#25
Chloroform
Concen: 51.010 ug/L
RT: 5.083 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

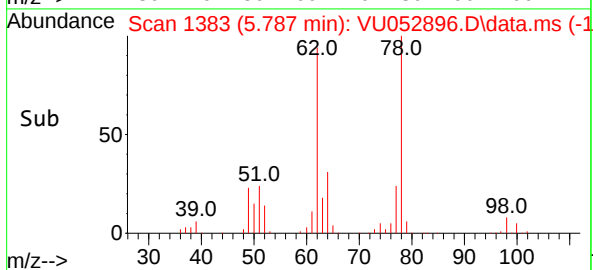
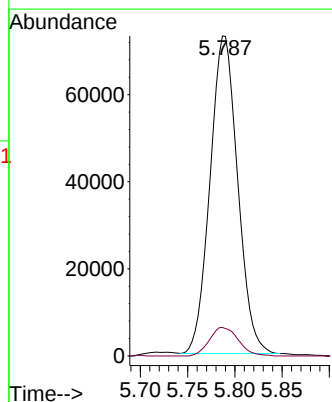
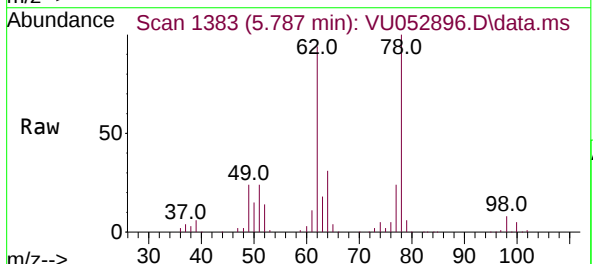
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

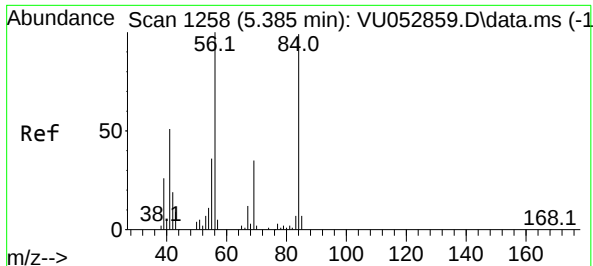
Tgt Ion: 83 Resp: 193247
Ion Ratio Lower Upper
83 100
85 66.8 45.8 85.0



#27
1,2-Dichloroethane
Concen: 49.501 ug/L
RT: 5.787 min Scan# 1383
Delta R.T. -0.003 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 62 Resp: 148459
Ion Ratio Lower Upper
62 100
98 8.9 7.6 11.4





#29

Cyclohexane

Concen: 49.980 ug/L

RT: 5.382 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

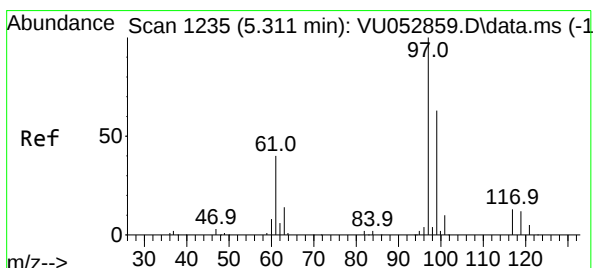
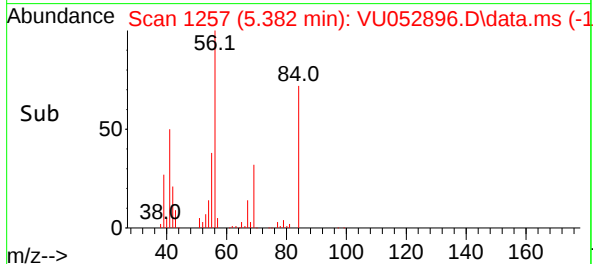
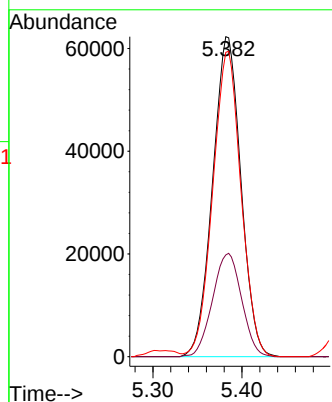
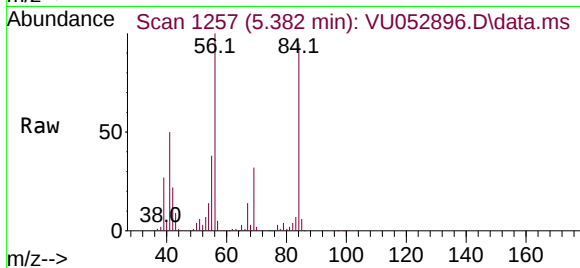
Tgt Ion: 56 Resp: 137349

Ion Ratio Lower Upper

56 100

69 33.2 26.6 40.0

84 95.2 77.0 115.4



#30

1,1,1-Trichloroethane

Concen: 51.212 ug/L

RT: 5.308 min Scan# 1234

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

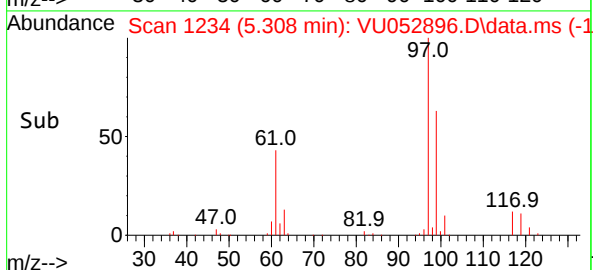
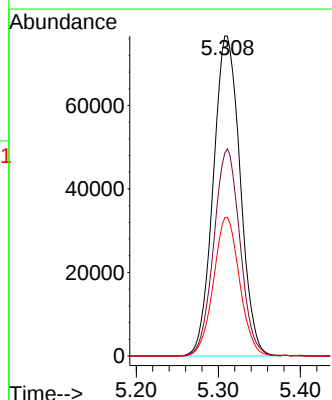
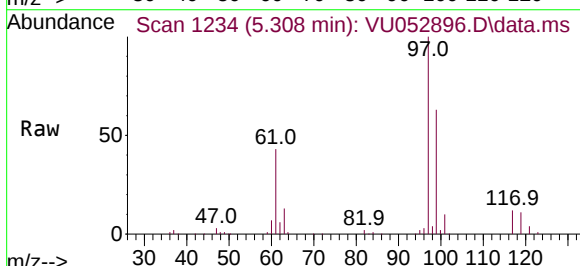
Tgt Ion: 97 Resp: 174693

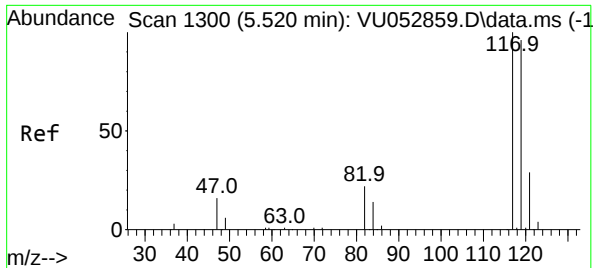
Ion Ratio Lower Upper

97 100

99 63.2 51.4 77.0

61 42.1 33.0 49.6

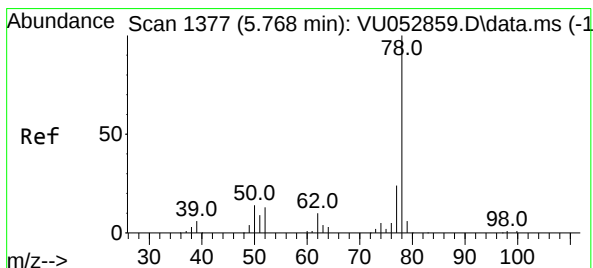
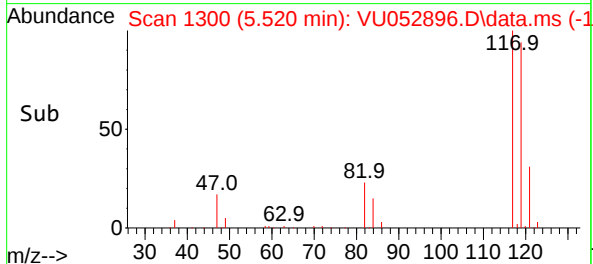
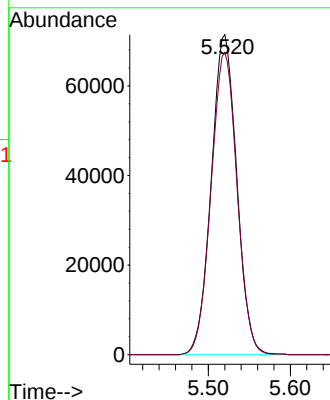
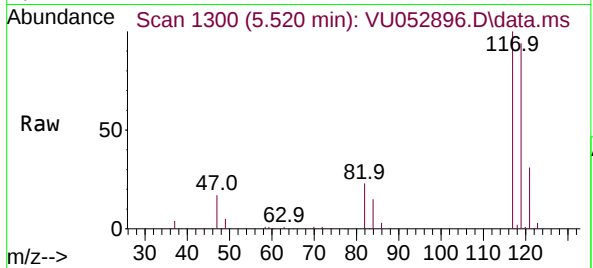




#31
Carbon tetrachloride
Concen: 52.068 ug/L
RT: 5.520 min Scan# 111
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

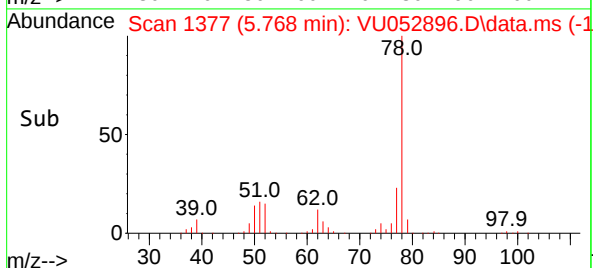
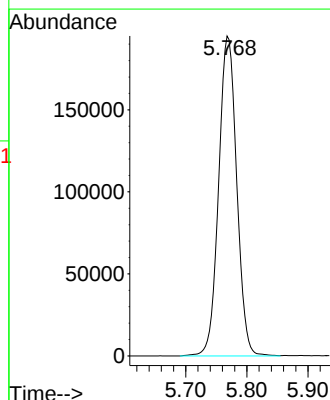
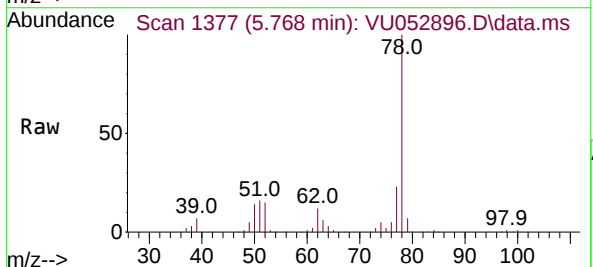
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

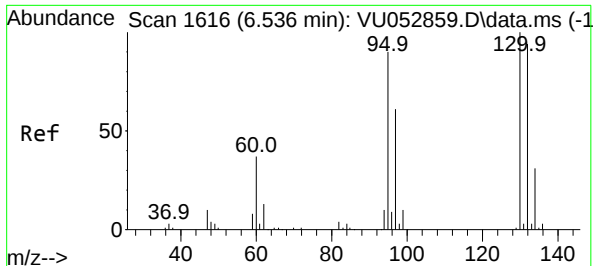
Tgt Ion:117 Resp: 153966
Ion Ratio Lower Upper
117 100
119 96.1 76.2 114.4



#33
Benzene
Concen: 50.753 ug/L
RT: 5.768 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 78 Resp: 400647





#34

Trichloroethene

Concen: 48.905 ug/L

RT: 6.539 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

Tgt Ion: 95 Resp: 98126

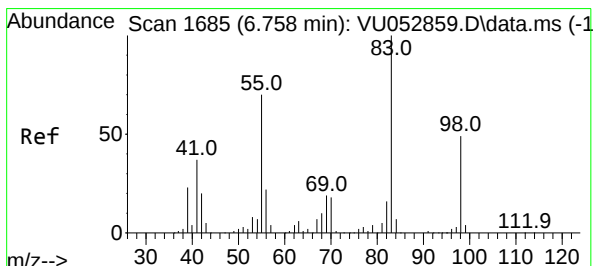
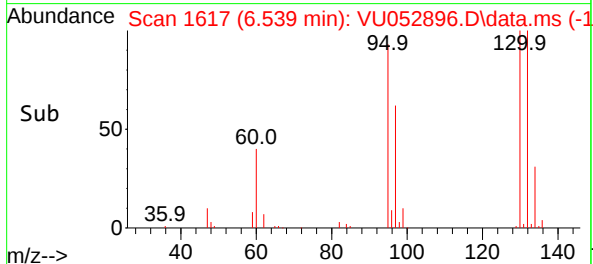
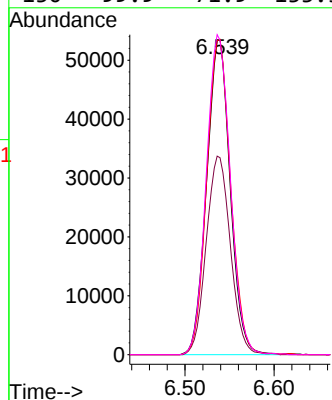
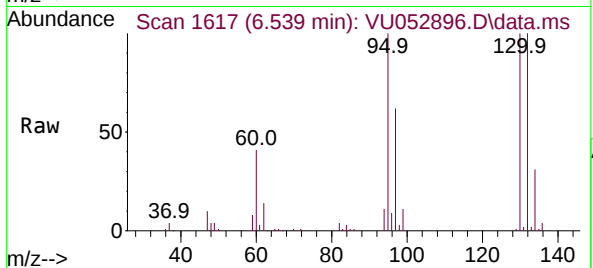
Ion Ratio Lower Upper

95 100

97 62.6 44.5 82.7

132 100.2 66.8 124.0

130 99.9 71.9 133.5



#35

Methylcyclohexane

Concen: 50.031 ug/L

RT: 6.758 min Scan# 1685

Delta R.T. -0.003 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

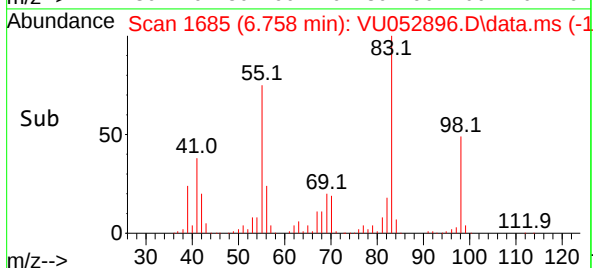
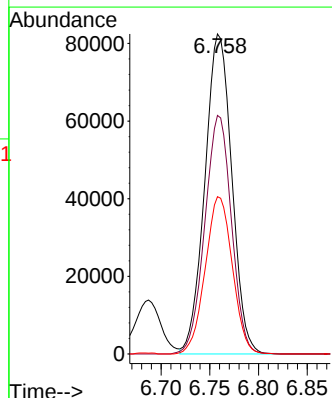
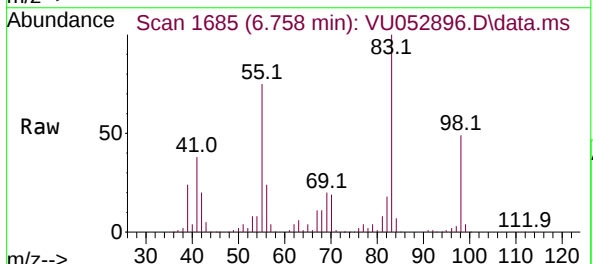
Tgt Ion: 83 Resp: 158882

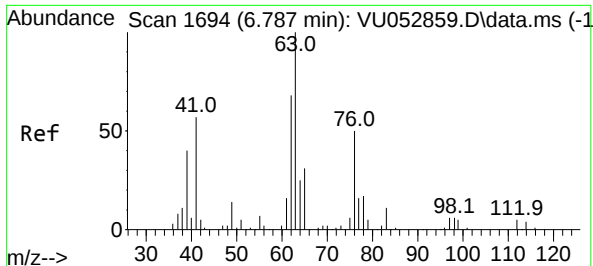
Ion Ratio Lower Upper

83 100

55 73.7 57.1 85.7

98 49.4 38.9 58.3

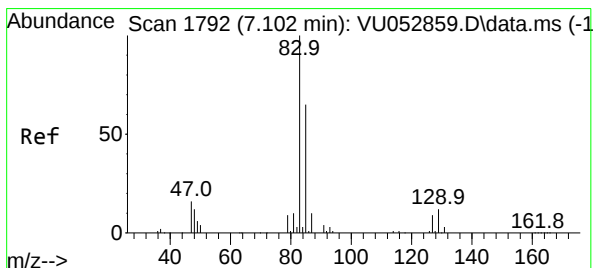
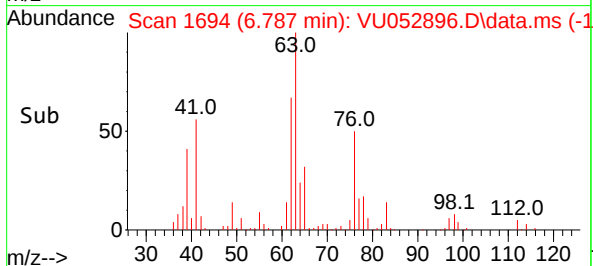
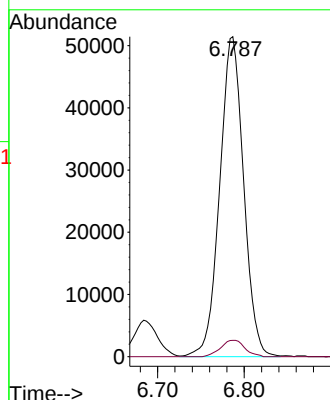
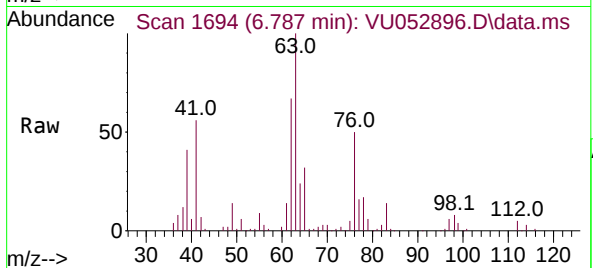




#37
1,2-Dichloropropane
Concen: 50.850 ug/L
RT: 6.787 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

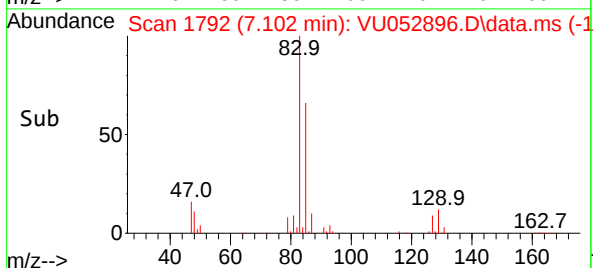
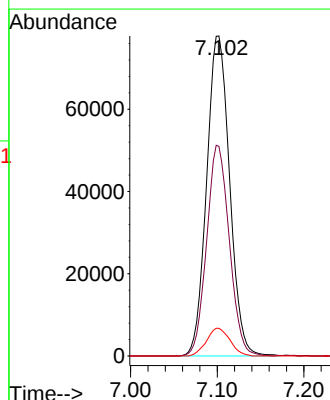
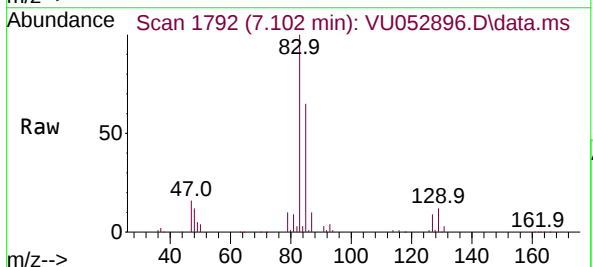
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

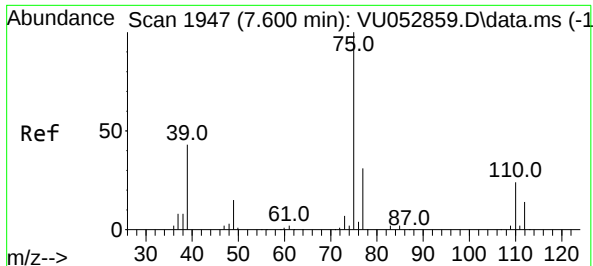
Tgt Ion: 63 Resp: 98689
Ion Ratio Lower Upper
63 100
112 5.2 3.8 5.8



#38
Bromodichloromethane
Concen: 50.451 ug/L
RT: 7.102 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 83 Resp: 143686
Ion Ratio Lower Upper
83 100
85 65.5 45.2 84.0
127 8.7 7.4 11.0





#39

cis-1,3-Dichloropropene

Concen: 49.440 ug/L

RT: 7.604 min Scan# 1947

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

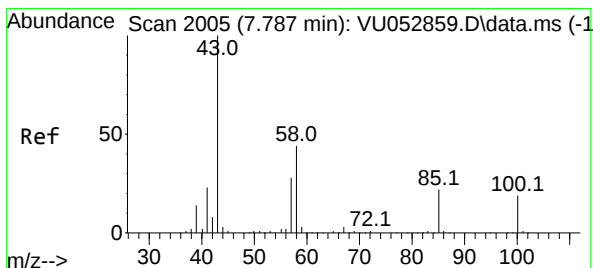
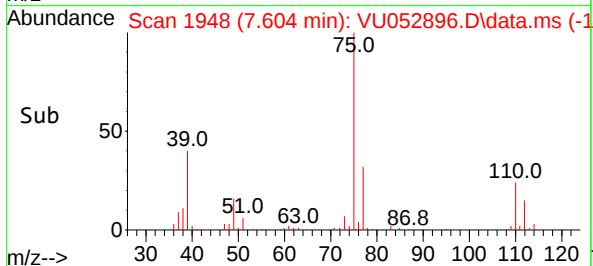
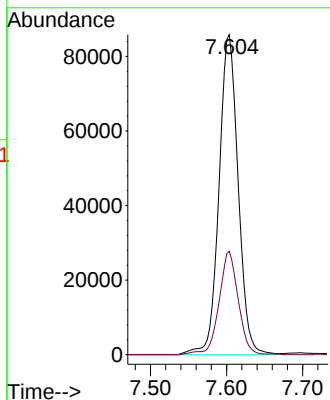
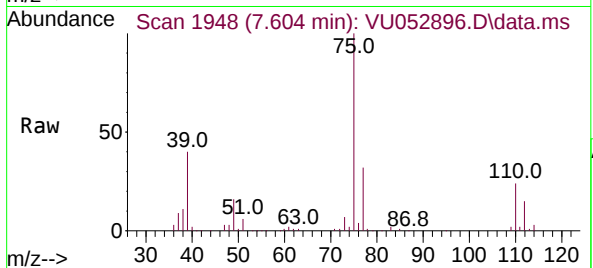
VSTD050147

Tgt Ion: 75 Resp: 150307

Ion Ratio Lower Upper

75 100

77 32.3 21.6 40.0



#40

4-Methyl-2-pentanone

Concen: 91.521 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.007 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

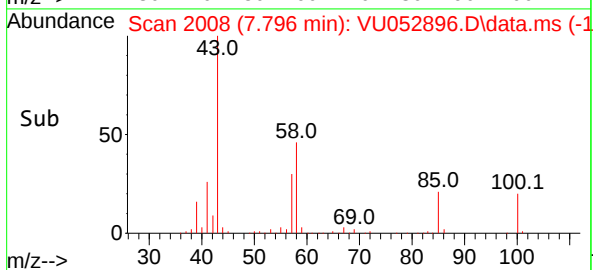
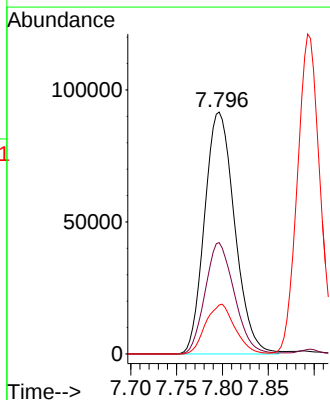
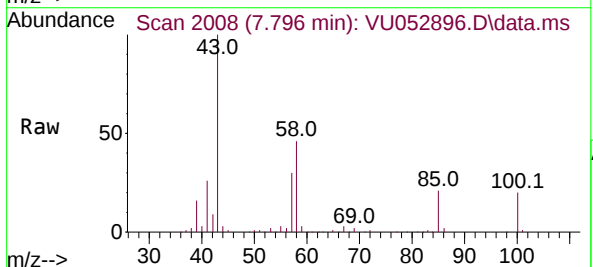
Tgt Ion: 43 Resp: 209263

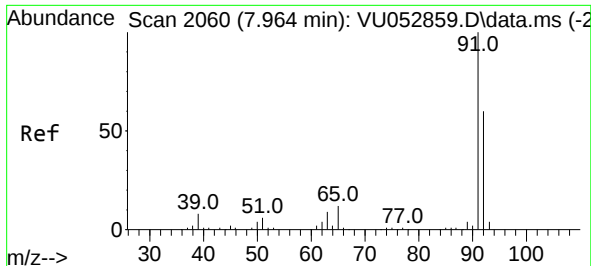
Ion Ratio Lower Upper

43 100

58 44.7 35.4 53.2

100 20.0 16.0 24.0





#42

Toluene

Concen: 51.277 ug/L

RT: 7.967 min Scan# 2060

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

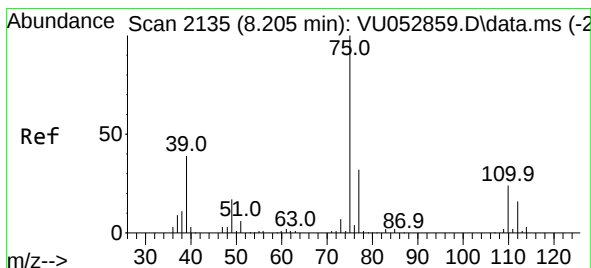
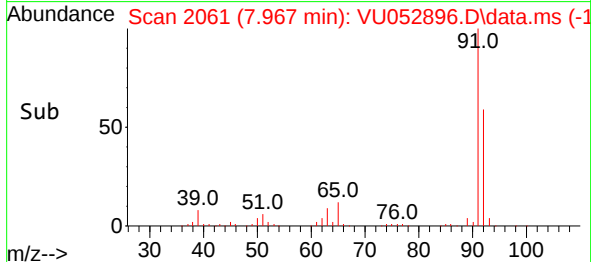
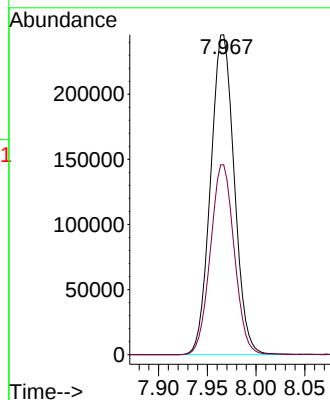
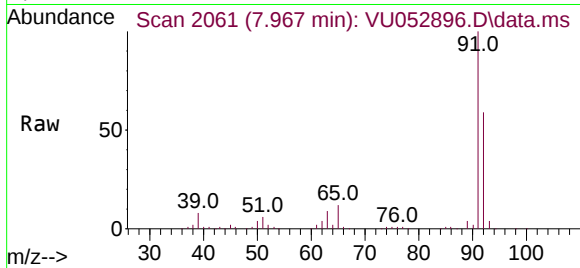
VSTD050147

Tgt Ion: 91 Resp: 414849

Ion Ratio Lower Upper

91 100

92 59.4 42.6 79.0



#44

trans-1,3-Dichloropropene

Concen: 49.827 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. 0.003 min

Lab File: VU052896.D

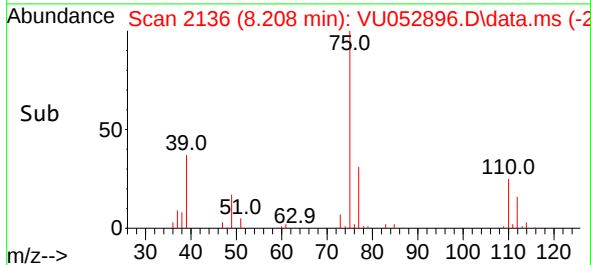
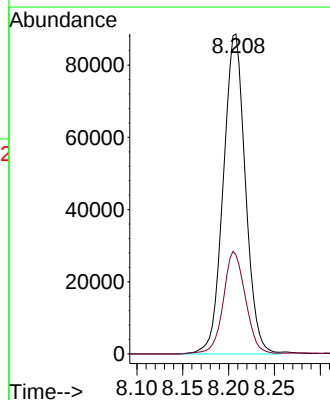
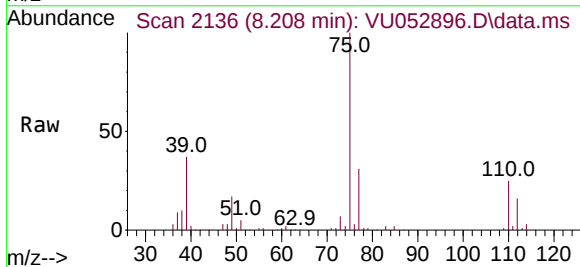
Acq: 01 Feb 2023 11:02

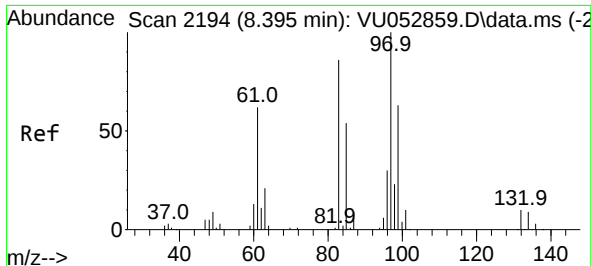
Tgt Ion: 75 Resp: 148870

Ion Ratio Lower Upper

75 100

77 31.0 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 50.391 ug/L

RT: 8.394 min Scan# 2194

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

Tgt Ion: 97 Resp: 100009

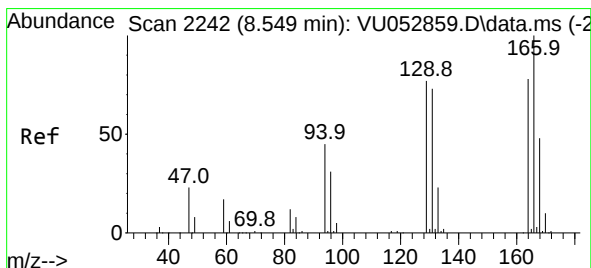
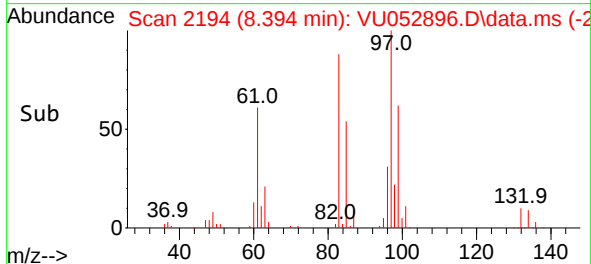
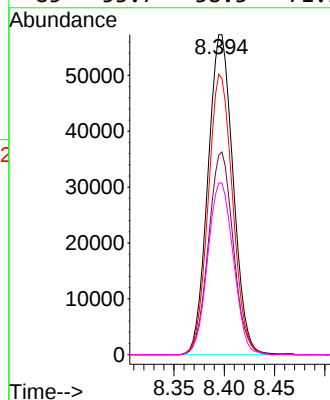
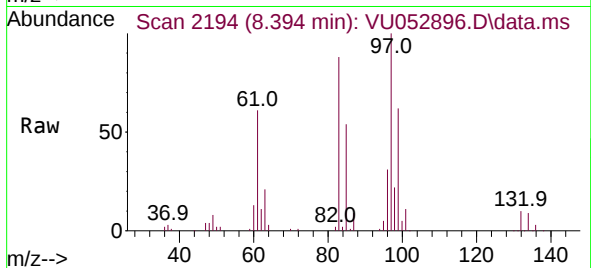
Ion Ratio Lower Upper

97 100

99 62.4 44.7 83.1

83 87.6 60.3 112.1

85 53.7 38.3 71.1



#46

Tetrachloroethene

Concen: 48.640 ug/L

RT: 8.549 min Scan# 2242

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Tgt Ion:164 Resp: 84036

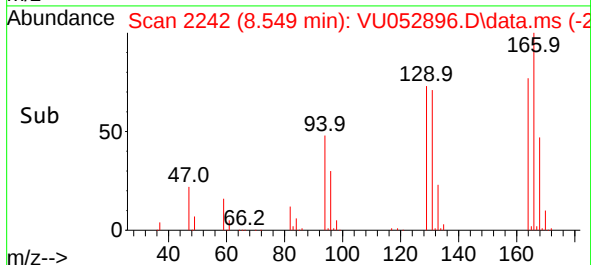
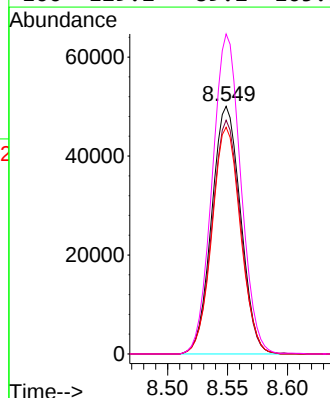
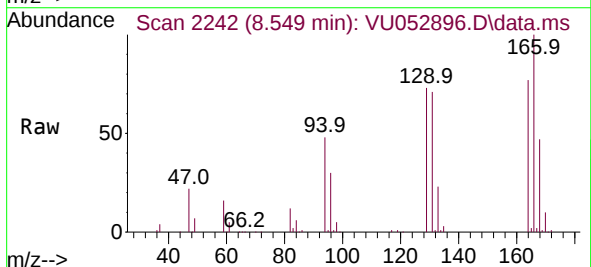
Ion Ratio Lower Upper

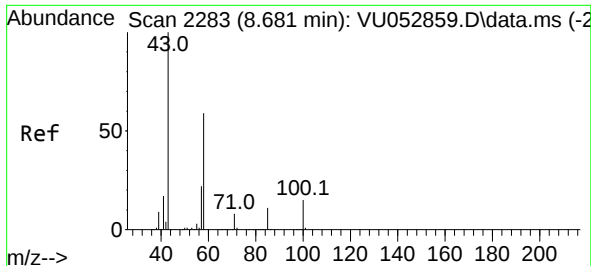
164 100

129 94.4 64.8 120.3

131 91.5 61.2 113.6

166 129.2 89.2 165.8

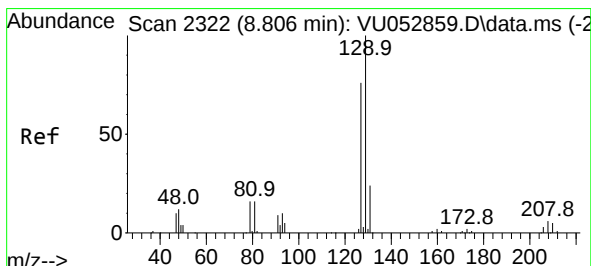
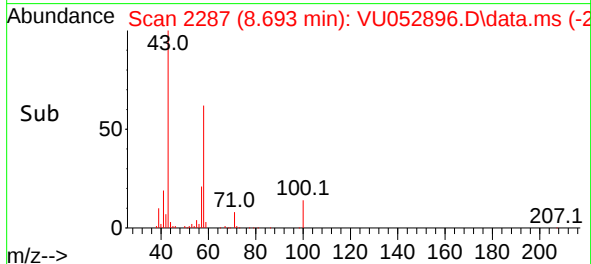
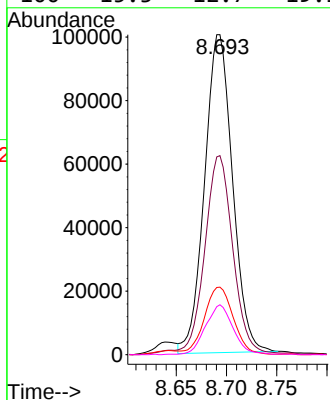
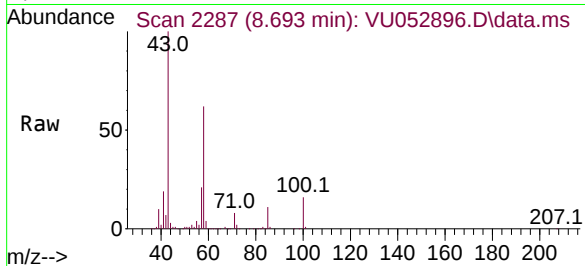




#48
2-Hexanone
Concen: 100.248 ug/L
RT: 8.693 min Scan# 21
Delta R.T. 0.010 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

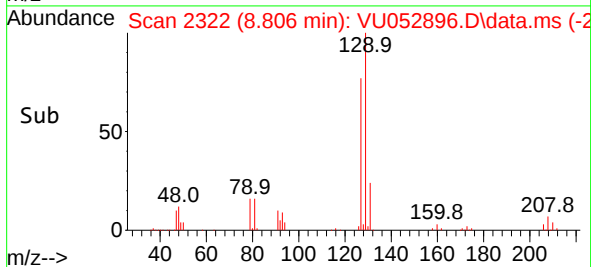
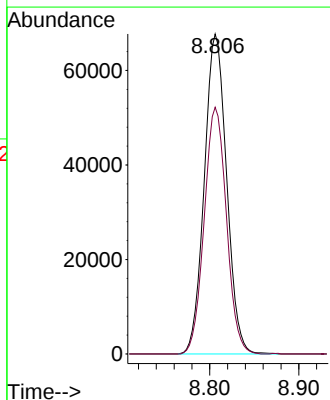
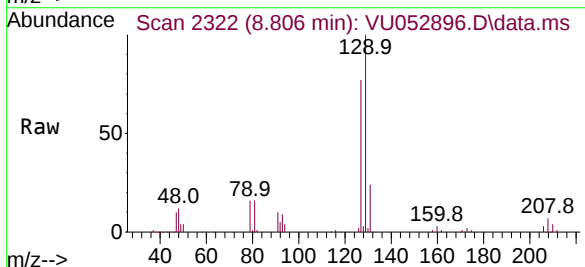
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

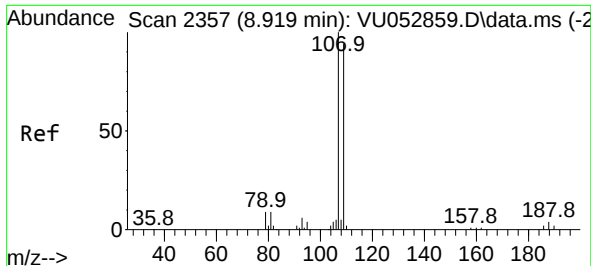
Tgt Ion: 43	Resp: 193914
Ion Ratio	Lower Upper
43 100	
58 61.9	48.0 72.0
57 22.1	16.8 25.2
100 15.3	12.7 19.1



#49
Dibromochloromethane
Concen: 49.654 ug/L
RT: 8.806 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion:129	Resp: 117849		
Ion Ratio	Lower	Upper	
129 100			
127 77.1	53.2	98.8	





#50

1,2-Dibromoethane

Concen: 48.220 ug/L

RT: 8.919 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

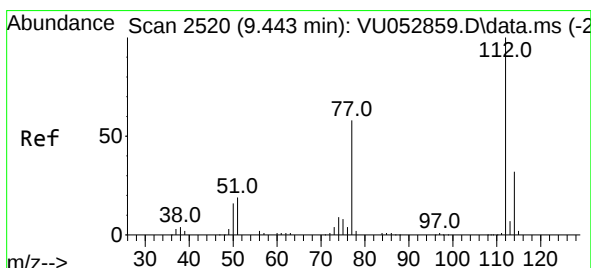
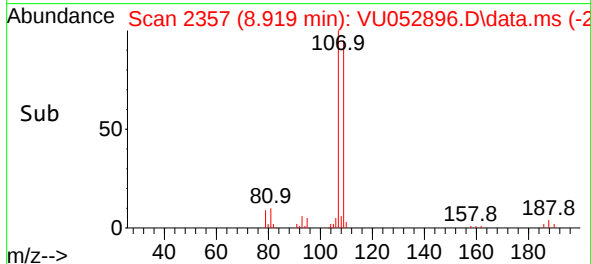
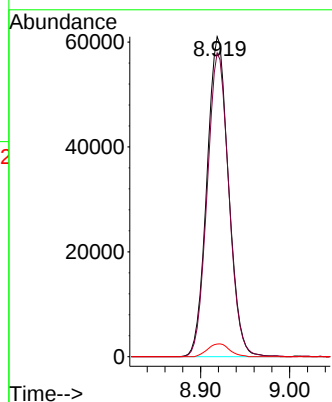
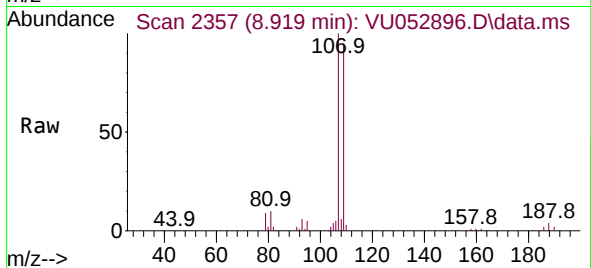
Tgt Ion:107 Resp: 103001

Ion Ratio Lower Upper

107 100

109 94.9 65.5 121.6

188 4.0 3.2 4.8



#51

Chlorobenzene

Concen: 49.057 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

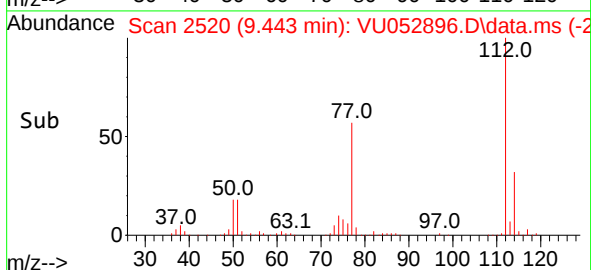
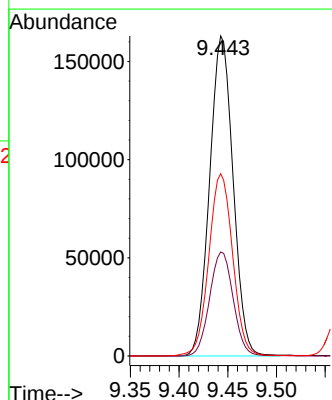
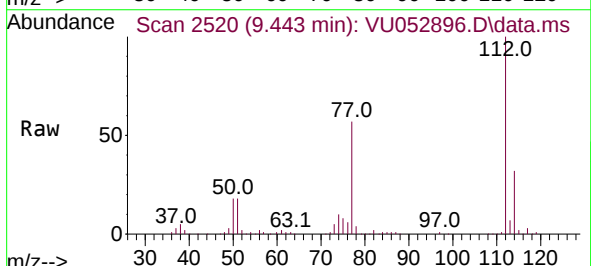
Tgt Ion:112 Resp: 273062

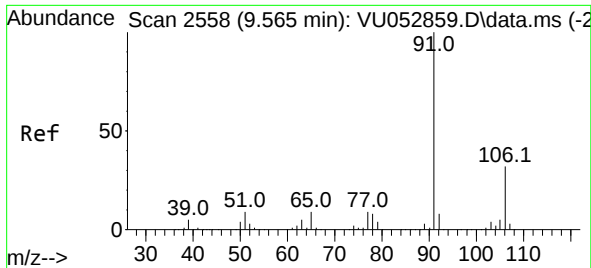
Ion Ratio Lower Upper

112 100

114 32.5 22.8 42.4

77 56.9 45.9 68.9

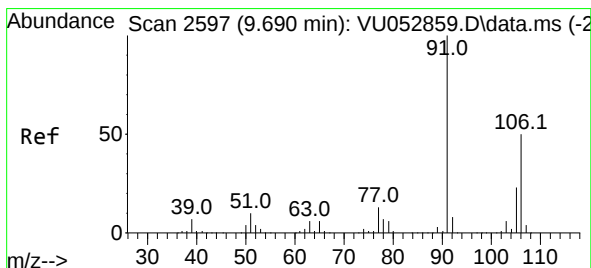
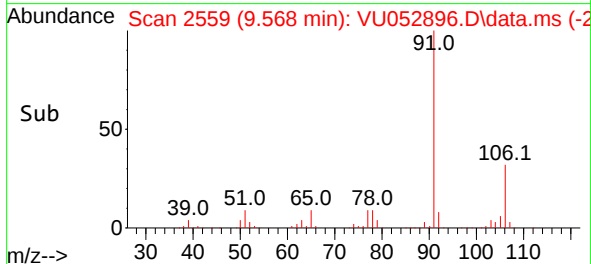
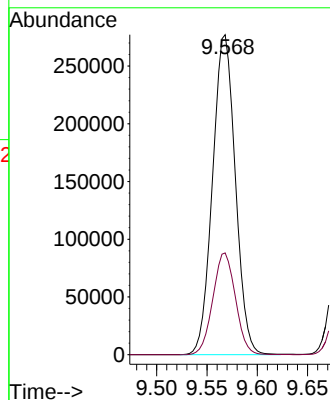
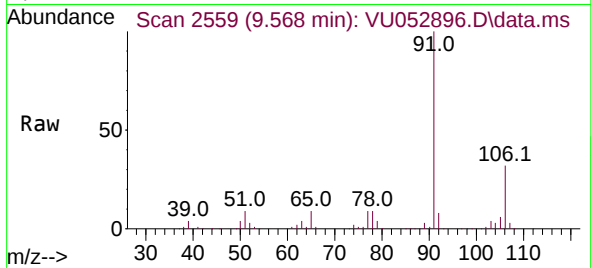




#52
Ethylbenzene
Concen: 50.575 ug/L
RT: 9.568 min Scan# 2558
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

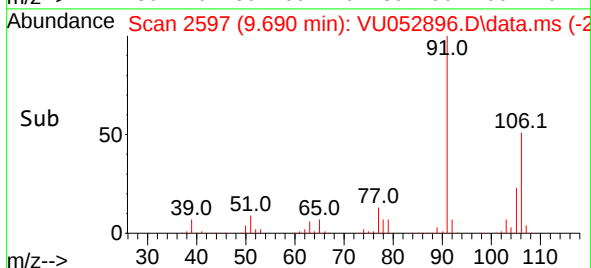
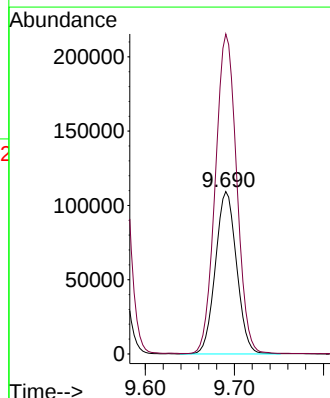
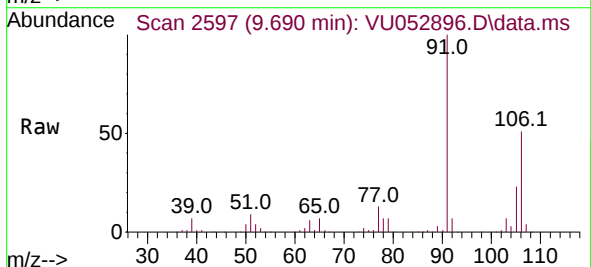
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

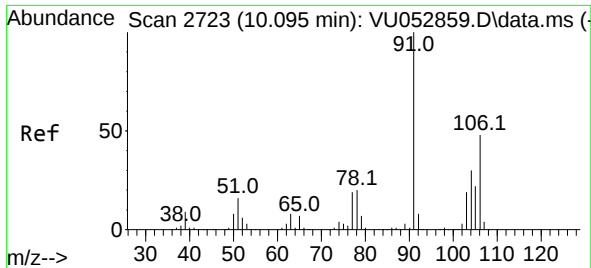
Tgt Ion: 91 Resp: 437271
Ion Ratio Lower Upper
91 100
106 31.8 22.0 40.8



#53
m,p-Xylene
Concen: 51.613 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 106 Resp: 180656
Ion Ratio Lower Upper
106 100
91 197.1 137.4 255.2

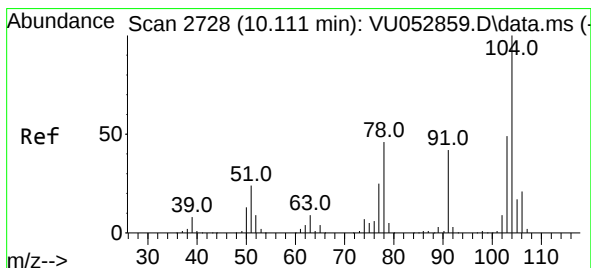
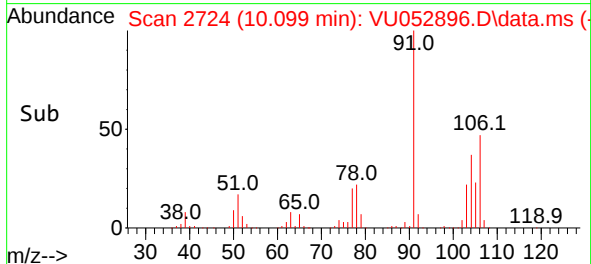
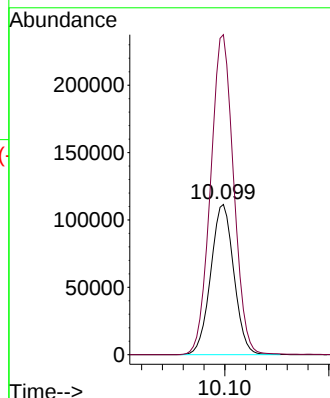
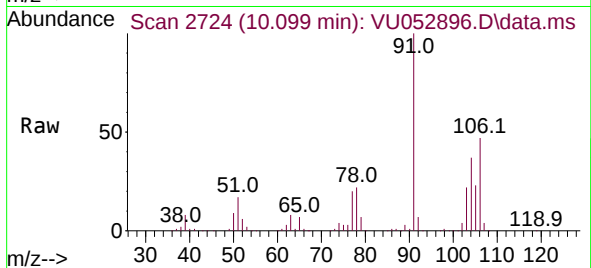




#54
o-xylene
Concen: 51.483 ug/L
RT: 10.099 min Scan# 2723
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

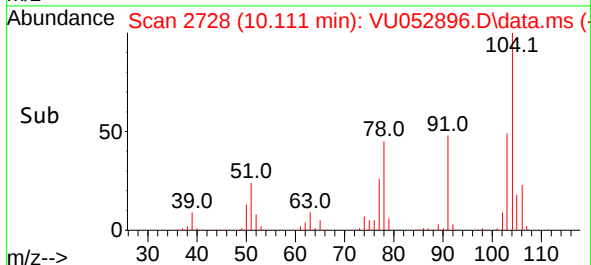
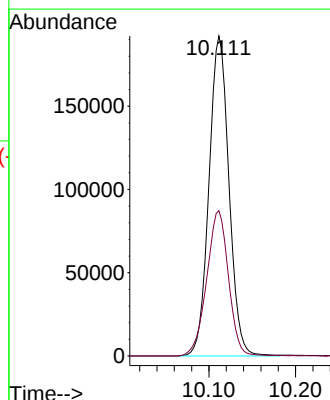
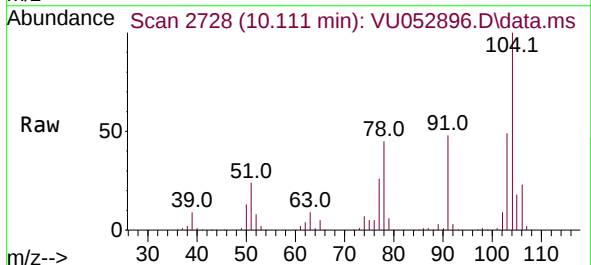
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

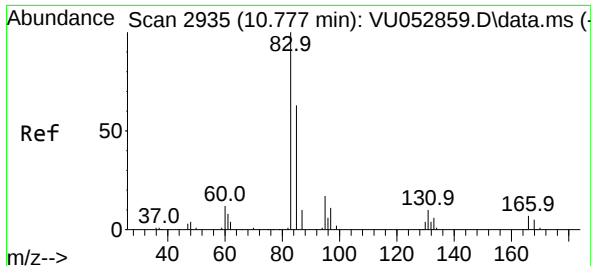
Tgt Ion:106 Resp: 172027
Ion Ratio Lower Upper
106 100
91 212.9 143.4 266.2



#55
Styrene
Concen: 53.788 ug/L
RT: 10.111 min Scan# 2728
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion:104 Resp: 308415
Ion Ratio Lower Upper
104 100
78 45.4 31.9 59.2

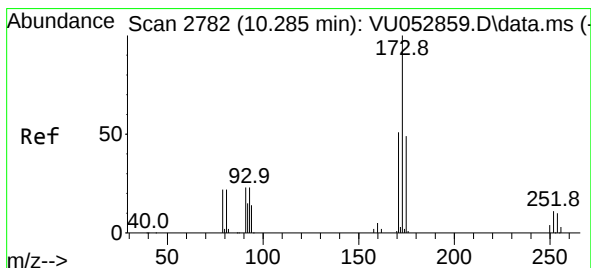
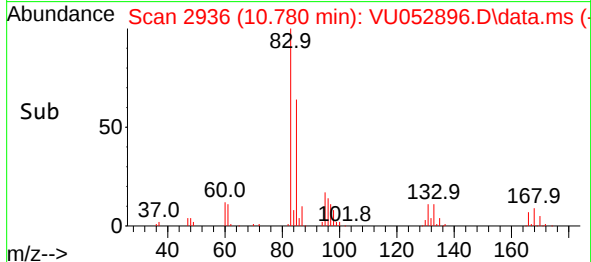
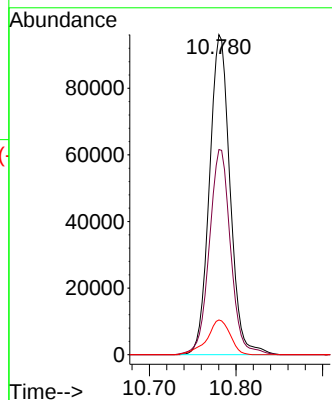
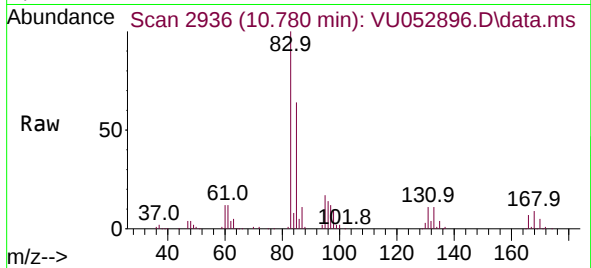




#57
1,1,2,2-Tetrachloroethane
Concen: 49.466 ug/L
RT: 10.780 min Scan# 2935
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

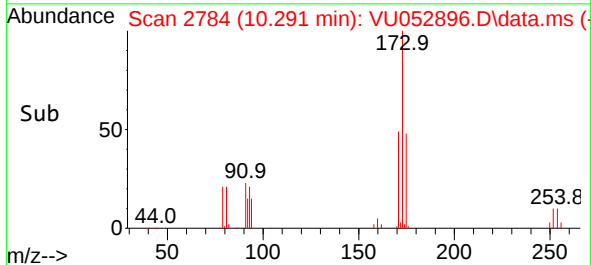
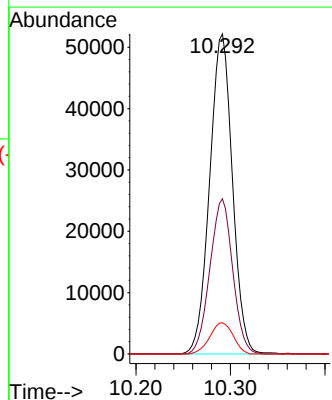
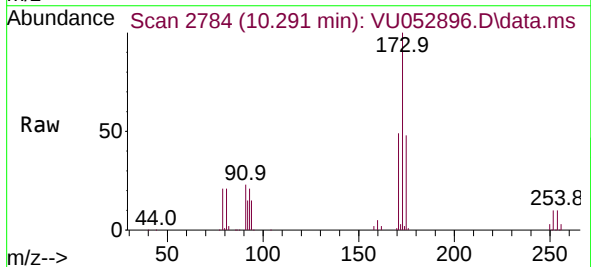
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

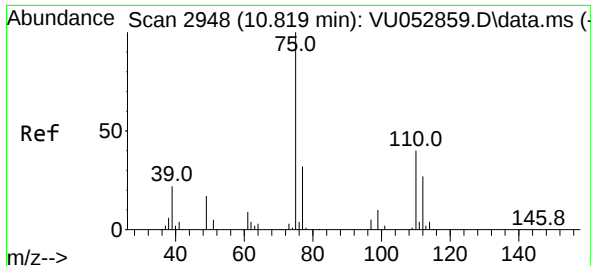
Tgt Ion: 83 Resp: 158881
Ion Ratio Lower Upper
83 100
85 64.1 45.0 83.6
131 10.9 8.6 12.8



#59
Bromoform
Concen: 45.696 ug/L
RT: 10.291 min Scan# 2784
Delta R.T. 0.003 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion:173 Resp: 87167
Ion Ratio Lower Upper
173 100
175 48.4 37.7 56.5
254 10.0 8.3 12.5

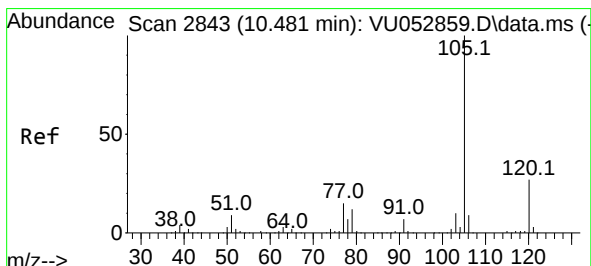
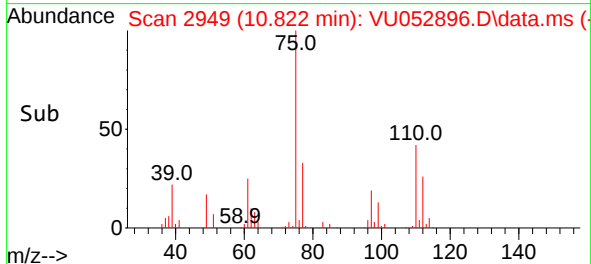
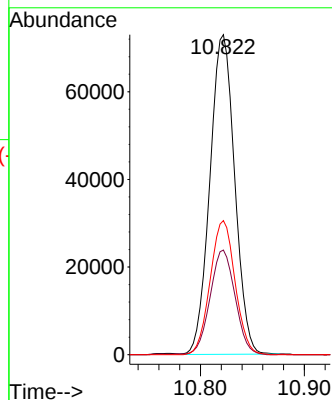
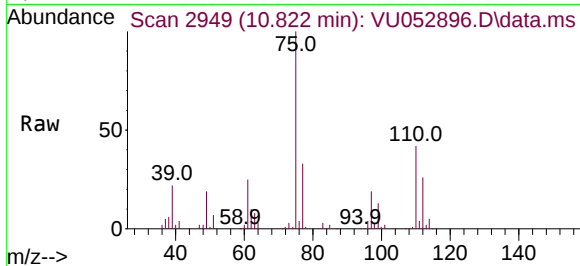




#60
1,2,3-Trichloropropane
Concen: 44.759 ug/L
RT: 10.822 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

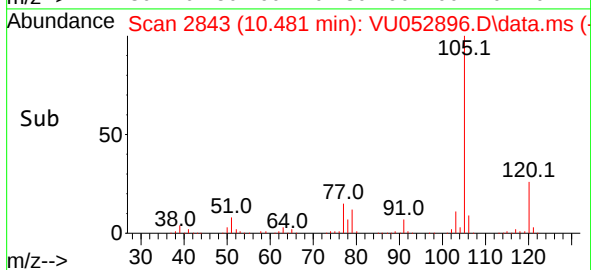
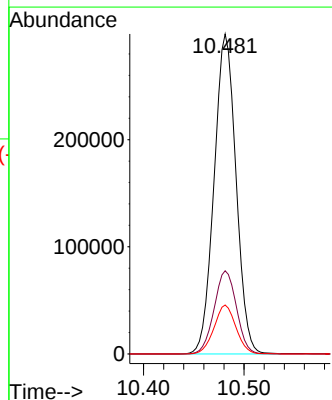
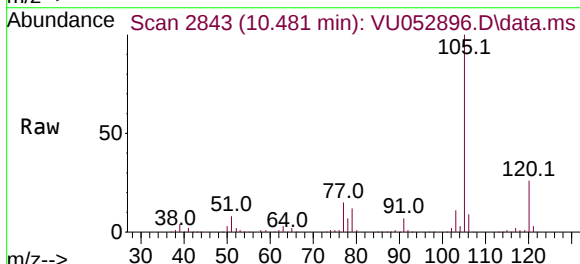
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

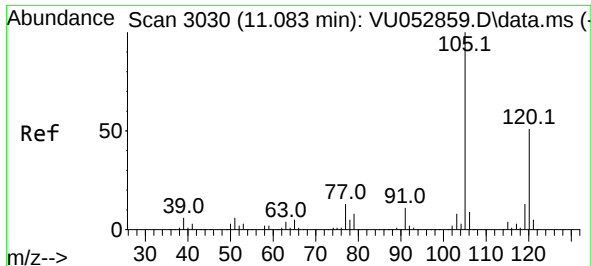
Tgt Ion: 75 Resp: 120858
Ion Ratio Lower Upper
75 100
77 33.0 25.8 38.8
110 42.2 32.4 48.6



#61
Isopropylbenzene
Concen: 50.310 ug/L
RT: 10.481 min Scan# 2843
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion: 105 Resp: 452311
Ion Ratio Lower Upper
105 100
120 26.5 21.4 32.2
77 15.3 12.2 18.2

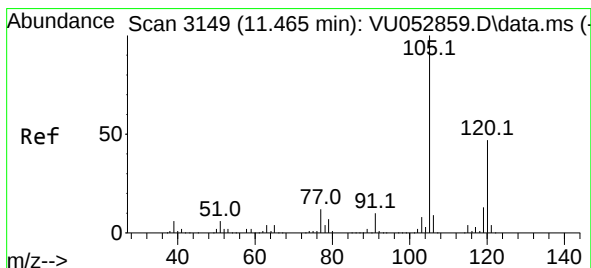
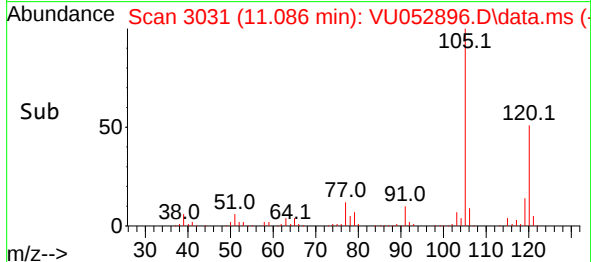
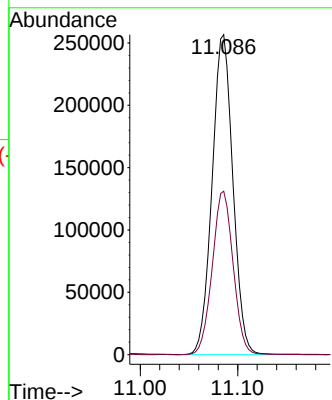
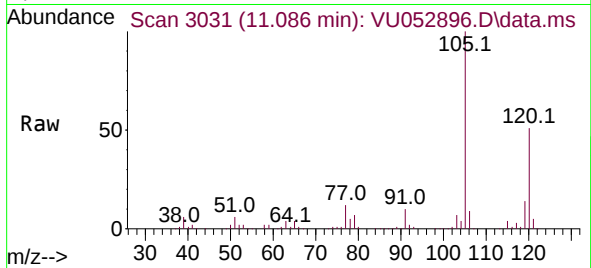




#62
1,3,5-Trimethylbenzene
Concen: 50.789 ug/L
RT: 11.086 min Scan# 3030
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

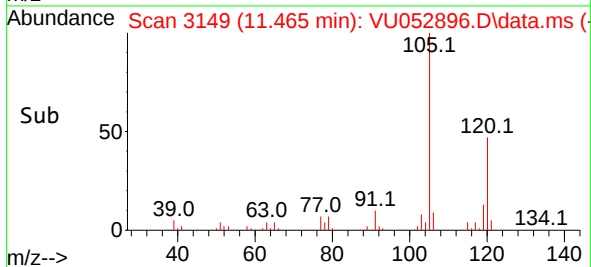
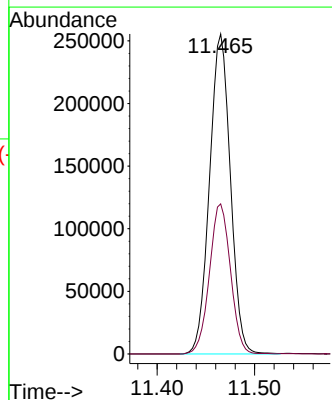
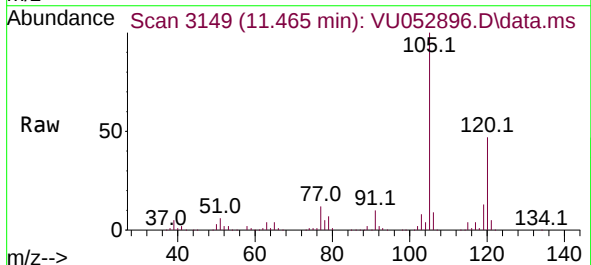
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

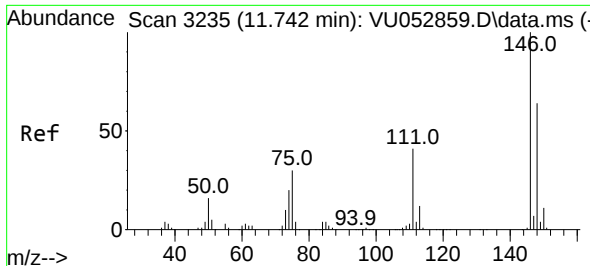
Tgt Ion:105 Resp: 380198
Ion Ratio Lower Upper
105 100
120 51.4 40.4 60.6



#63
1,2,4-Trimethylbenzene
Concen: 52.407 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion:105 Resp: 379621
Ion Ratio Lower Upper
105 100
120 47.3 38.1 57.1

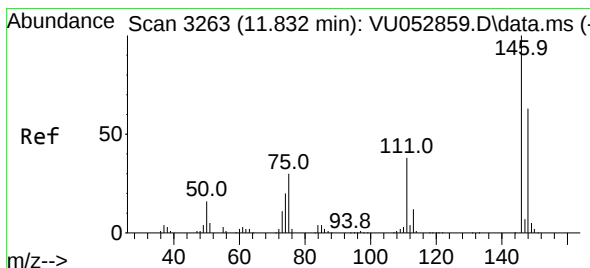
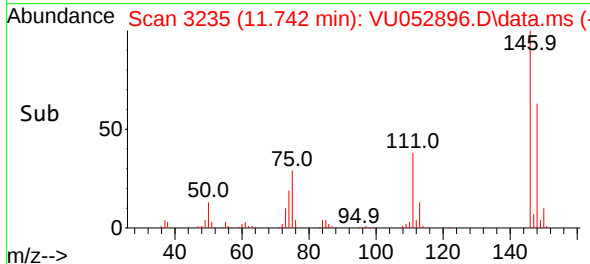
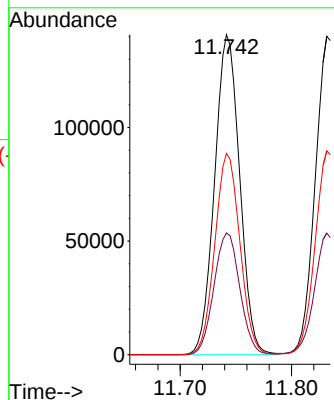
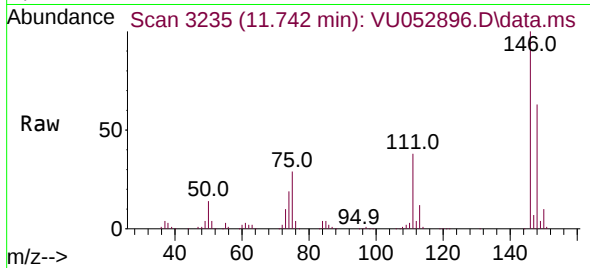




#64
1,3-Dichlorobenzene
Concen: 48.609 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

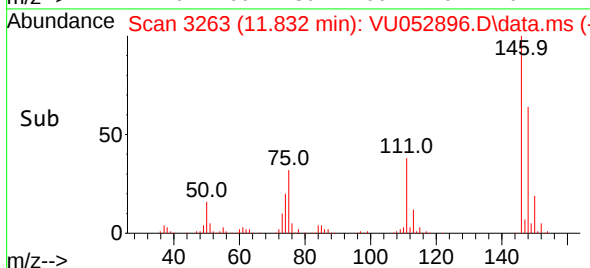
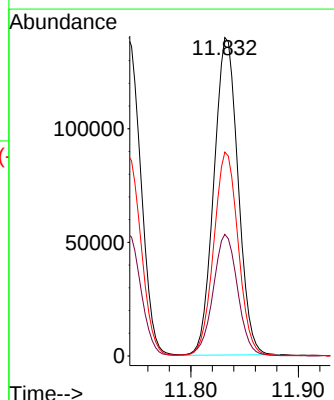
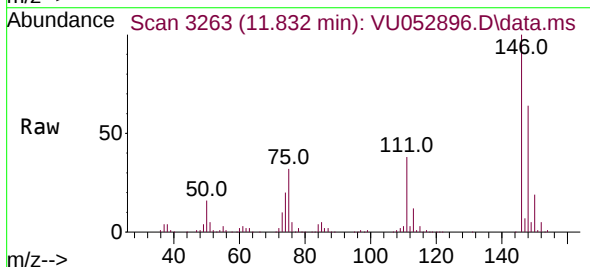
Instrument :
MSVOA_U
ClientSampleId :
VSTD050147

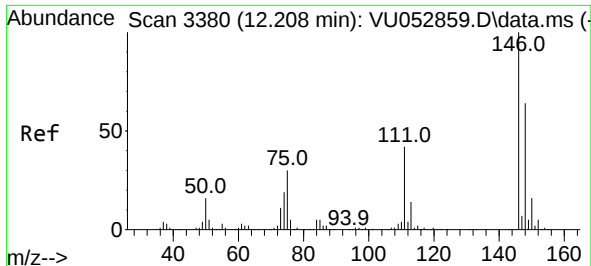
Tgt Ion:146 Resp: 220486
Ion Ratio Lower Upper
146 100
111 38.0 27.8 51.6
148 62.9 45.5 84.5



#65
1,4-Dichlorobenzene
Concen: 46.437 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU052896.D
Acq: 01 Feb 2023 11:02

Tgt Ion:146 Resp: 218055
Ion Ratio Lower Upper
146 100
111 38.2 26.7 49.7
148 64.0 45.6 84.6





#67

1,2-Dichlorobenzene

Concen: 48.785 ug/L

RT: 12.208 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

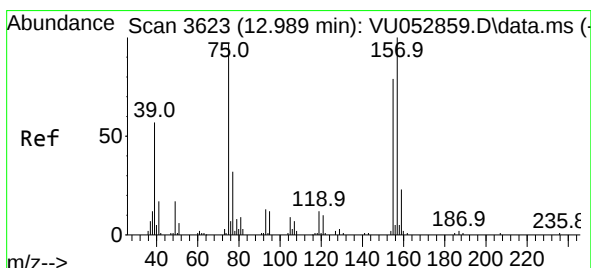
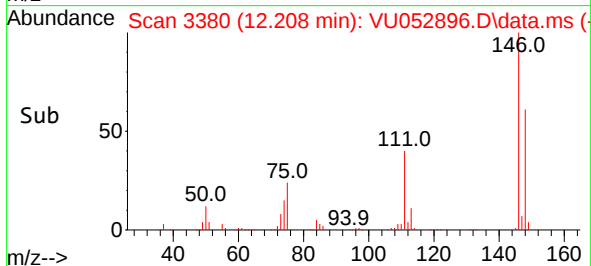
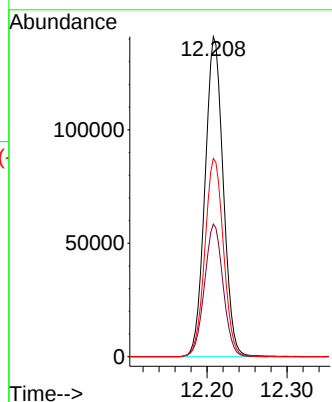
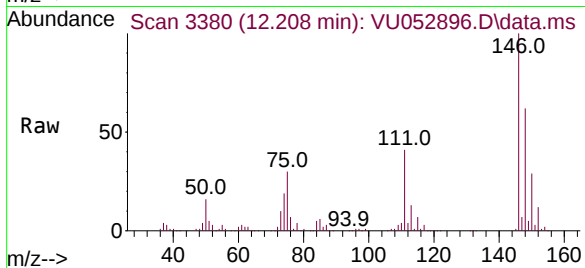
Tgt Ion:146 Resp: 223821

Ion Ratio Lower Upper

146 100

111 41.5 33.2 49.8

148 62.0 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 41.239 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

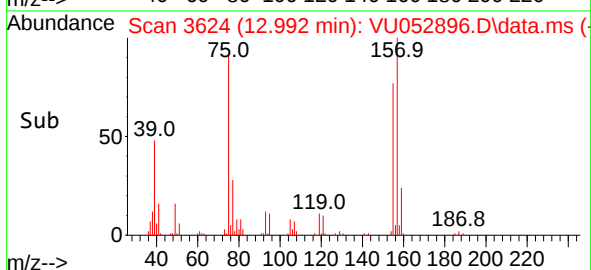
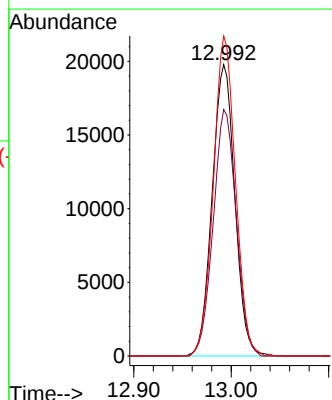
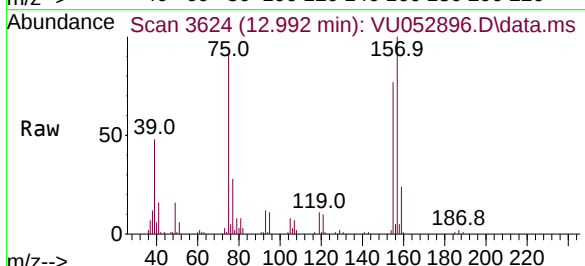
Tgt Ion: 75 Resp: 31918

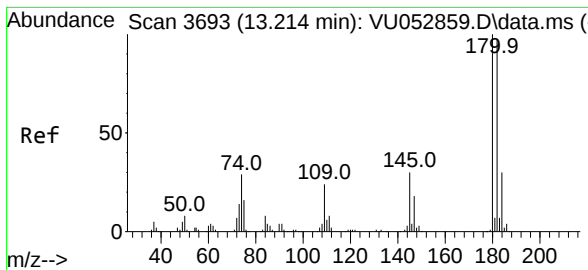
Ion Ratio Lower Upper

75 100

155 84.6 69.2 103.8

157 109.8 91.2 136.8





#69

1,3,5-Trichlorobenzene

Concen: 46.890 ug/L

RT: 13.214 min Scan# 3693

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

Tgt Ion:180 Resp: 157454

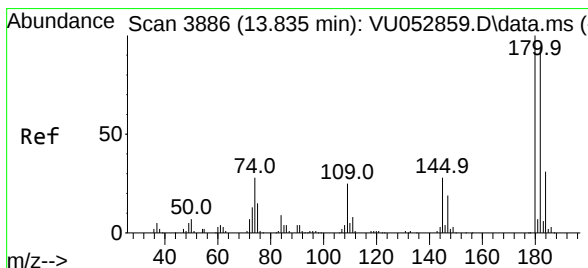
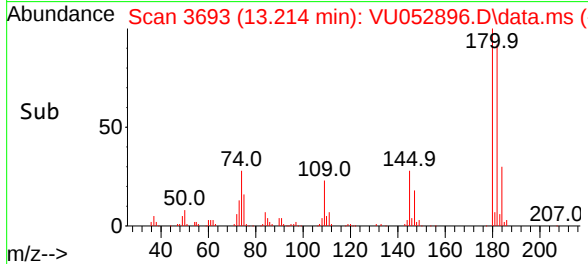
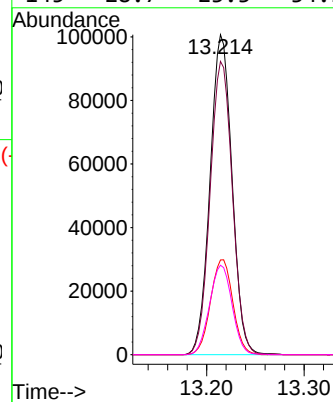
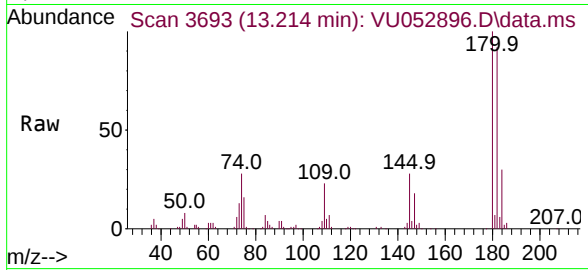
Ion Ratio Lower Upper

180 100

182 92.9 77.0 115.6

184 30.3 24.4 36.6

145 28.7 23.3 34.9



#70

1,2,4-trichlorobenzene

Concen: 43.942 ug/L

RT: 13.835 min Scan# 3886

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

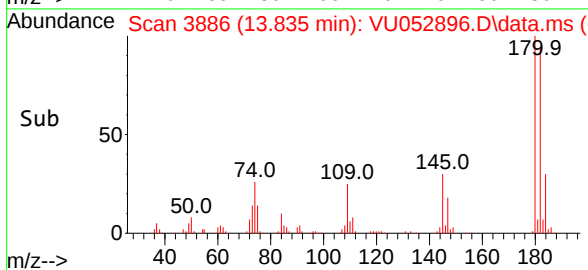
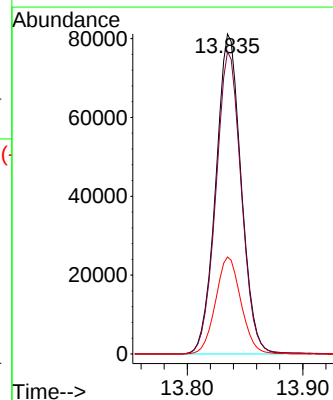
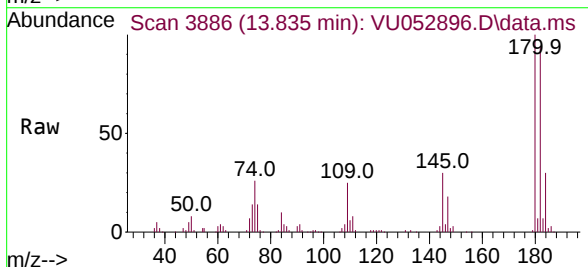
Tgt Ion:180 Resp: 123710

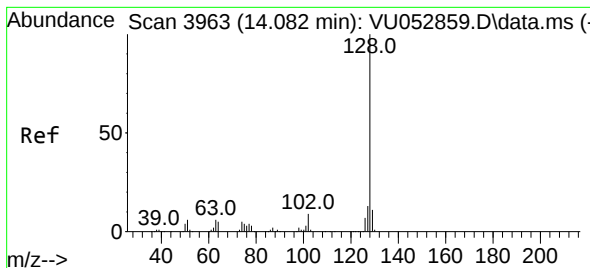
Ion Ratio Lower Upper

180 100

182 94.9 78.2 117.2

145 30.3 23.4 35.2





#71

Naphthalene

Concen: 40.361 ug/L

RT: 14.082 min Scan# 3963

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Instrument :

MSVOA_U

ClientSampleId :

VSTD050147

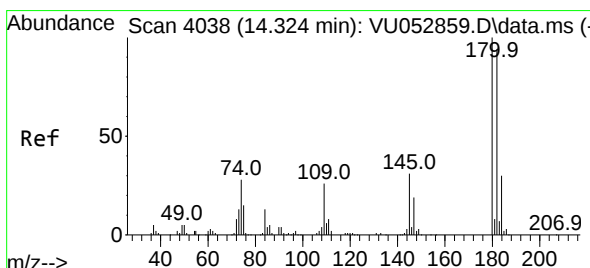
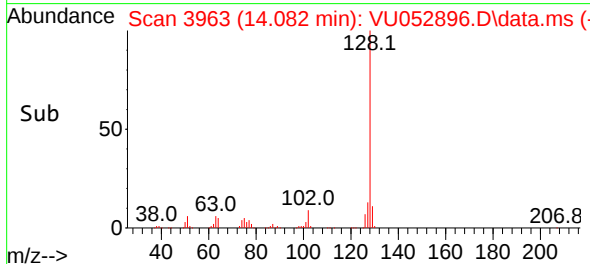
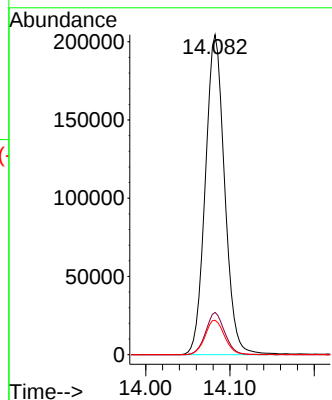
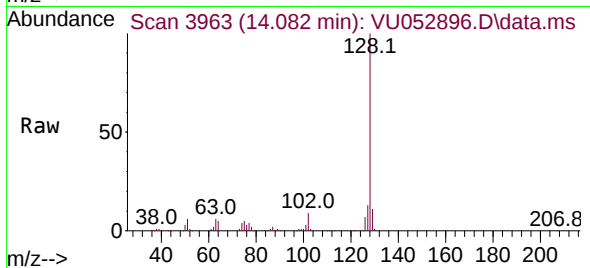
Tgt Ion:128 Resp: 326535

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.9 8.8 13.2



#72

1,2,3-Trichlorobenzene

Concen: 44.091 ug/L

RT: 14.327 min Scan# 4039

Delta R.T. 0.000 min

Lab File: VU052896.D

Acq: 01 Feb 2023 11:02

Tgt Ion:180 Resp: 131184

Ion Ratio Lower Upper

180 100

182 95.7 77.5 116.3

145 31.4 24.2 36.4

