

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U090123\
 Data File : U055067.D
 Acq On : 02 Sep 2023 02:21
 Operator : MD/SY
 Sample : 04250-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 02 04:11:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Sep 02 00:23:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	192984	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	193498	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	99179	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	42054	4.650	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.000%
7) Chloroethane-d5	1.911	69	49608	4.738	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.800%
11) 1,1-Dichloroethene-d2	2.563	65	24829	4.818	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.400%
20) 2-Butanone-d5	4.631	46	159590	60.802	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.600%
24) Chloroform-d	5.059	84	121034	5.043	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.800%
26) 1,2-Dichloroethane-d4	5.698	65	62911	5.239	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.800%
32) Benzene-d6	5.724	84	239906	5.023	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.400%
36) 1,2-Dichloropropane-d6	6.689	67	78867	5.192	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.800%
41) Toluene-d8	7.894	98	217938	4.953	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.000%
43) trans-1,3-Dichloroprop...	8.177	79	21306	5.093	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.800%
46) 2-Hexanone-d5	8.631	63	97919	57.652	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.300%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	58165	5.444	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	75773	5.234	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	31242	2.594	ug/L	100
9) Trichlorofluoromethane	2.136	101	2299	0.131	ug/L	97
12) 1,1-Dichloroethene	2.576	96	27700	3.105	ug/L #	76
17) Methyl tert-butyl Ether	3.361	73	93629	4.001	ug/L	99
18) trans-1,2-Dichloroethene	3.351	96	26997	2.982	ug/L	93
19) 1,1-Dichloroethane	3.869	63	9609	0.491	ug/L #	95
22) cis-1,2-Dichloroethene	4.660	96	4529476	408.774	ug/L	97
25) Chloroform	5.087	83	32945	1.617	ug/L	98
27) 1,2-Dichloroethane	5.795	62	2483	0.200	ug/L #	76
31) Carbon tetrachloride	5.522	117	8054	0.579	ug/L	91
33) Benzene	5.772	78	19706	0.479	ug/L	100
35) Methylcyclohexane	6.689	83	21166	1.318	ug/L #	19
37) 1,2-Dichloropropane	6.689	63	9004	0.803	ug/L #	88
39) cis-1,3-Dichloropropene	7.563	75	1762	0.116	ug/L #	73
45) 1,1,2-Trichloroethane	8.399	97	13053	1.728	ug/L	96
47) Tetrachloroethene	8.550	164	86288	10.908	ug/L	98
48) 2-Hexanone	8.682	43	17141	3.422	ug/L #	73
49) Dibromochloromethane	8.550	129	86720	10.520	ug/L #	9
51) Chlorobenzene	9.444	112	48133	1.655	ug/L	99

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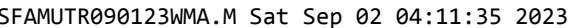
Instrument :
 MSVOA_U
 ClientSampleId :

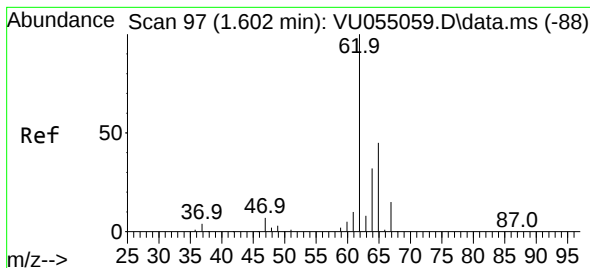
Quant Time: Sep 02 04:11:26 2023
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 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Sep 02 00:23:04 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.746	75	7364	1.119	ug/L #	49
64) 1,3-Dichlorobenzene	11.746	146	21476	0.967	ug/L	95
65) 1,4-Dichlorobenzene	11.833	146	33884	1.531	ug/L	94
67) 1,2-Dichlorobenzene	12.209	146	17030	0.818	ug/L	99
69) 1,3,5-Trichlorobenzene	13.836	180	76348	4.550	ug/L	100
70) 1,2,4-trichlorobenzene	13.836	180	76348	4.853	ug/L	98
72) 1,2,3-Trichlorobenzene	14.328	180	33061	2.421	ug/L	97

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

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#5

Vinyl chloride

Concen: 2.594 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU055067.D

Acq: 02 Sep 2023 02:21

Instrument :

MSVOA_U

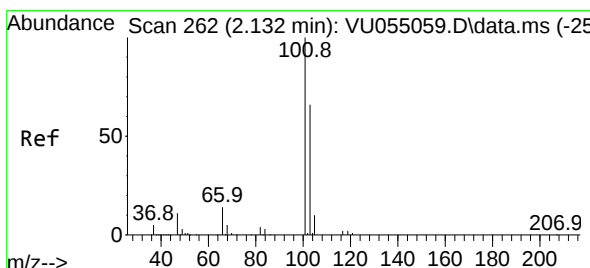
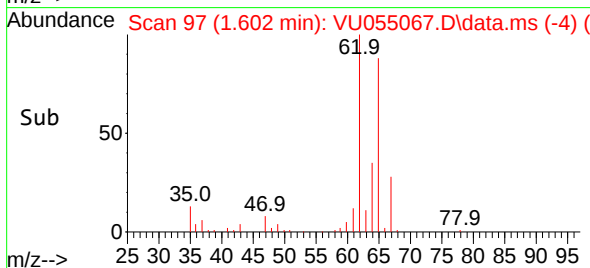
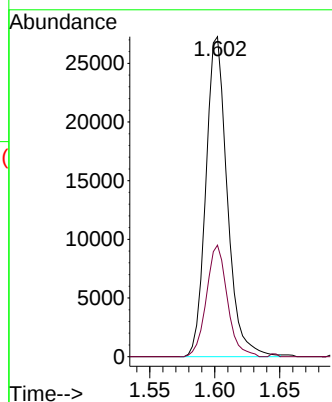
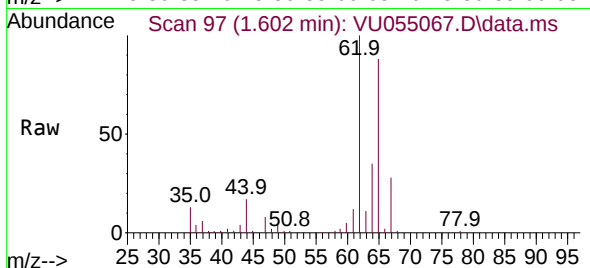
ClientSampleId :

Tgt Ion: 62 Resp: 31242

Ion Ratio Lower Upper

62 100

64 34.9 24.2 45.0



#9

Trichlorofluoromethane

Concen: 0.131 ug/L

RT: 2.136 min Scan# 263

Delta R.T. 0.003 min

Lab File: VU055067.D

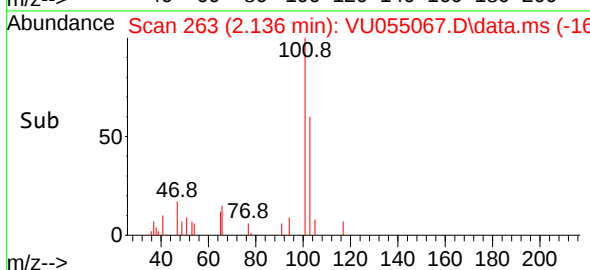
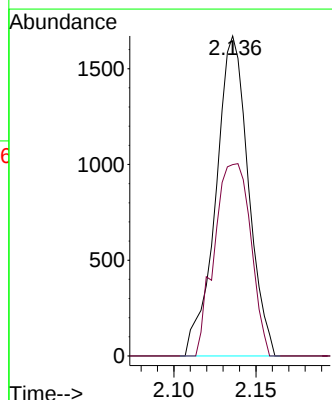
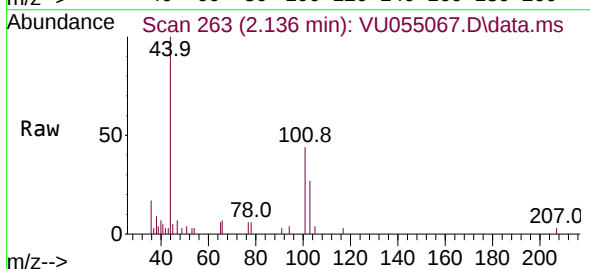
Acq: 02 Sep 2023 02:21

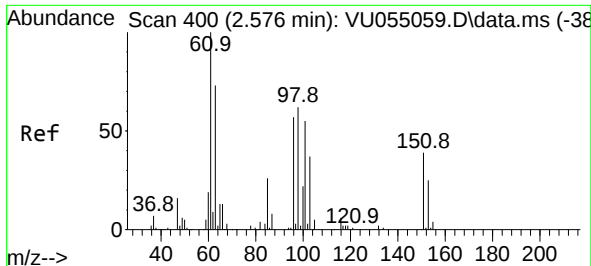
Tgt Ion: 101 Resp: 2299

Ion Ratio Lower Upper

101 100

103 67.1 51.9 77.9





#12

1,1-Dichloroethene

Concen: 3.105 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU055067.D

Acq: 02 Sep 2023 02:21

Instrument :

MSVOA_U

ClientSampleId :

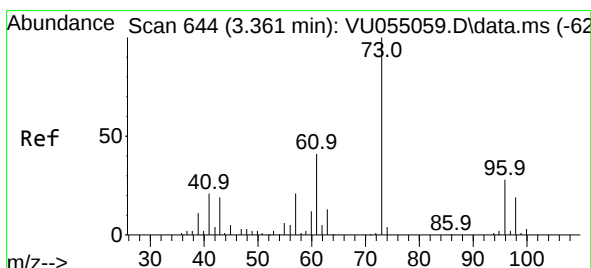
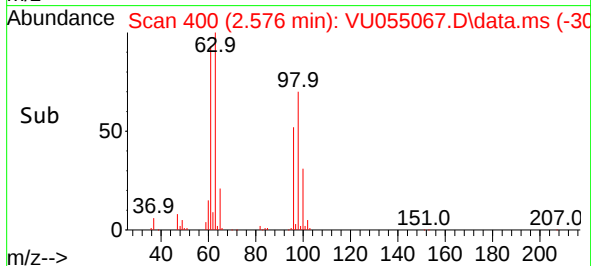
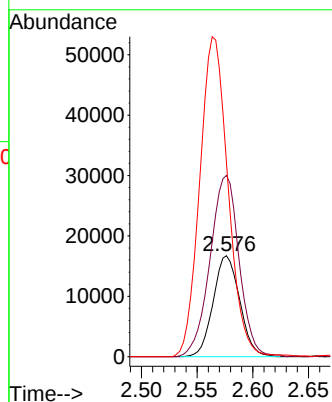
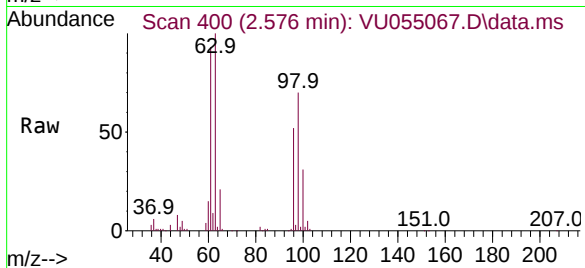
Tgt Ion: 96 Resp: 27700

Ion Ratio Lower Upper

96 100

61 179.7 120.8 224.4

63 192.3 94.5 175.5#



#17

Methyl tert-butyl Ether

Concen: 4.001 ug/L

RT: 3.361 min Scan# 644

Delta R.T. 0.000 min

Lab File: VU055067.D

Acq: 02 Sep 2023 02:21

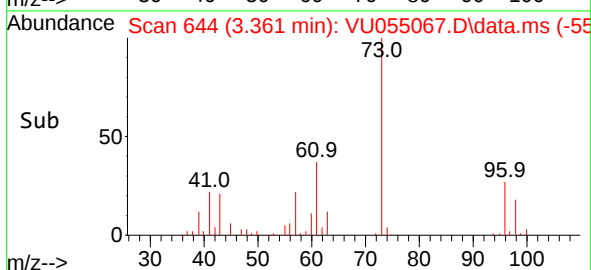
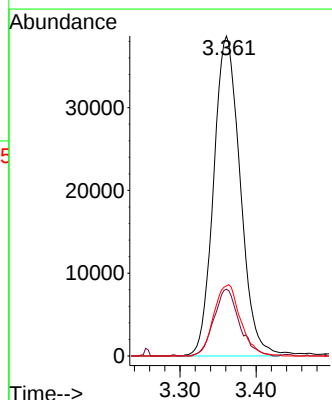
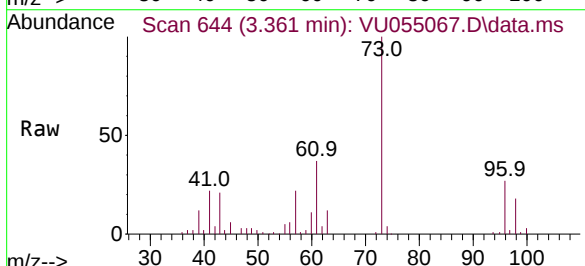
Tgt Ion: 73 Resp: 93629

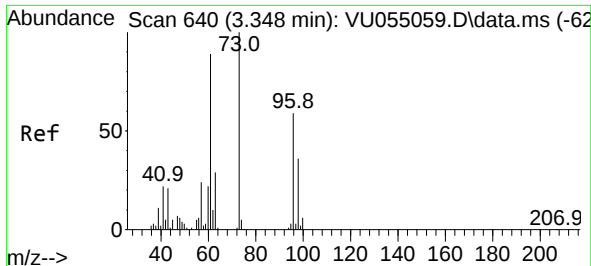
Ion Ratio Lower Upper

73 100

43 20.1 16.2 24.2

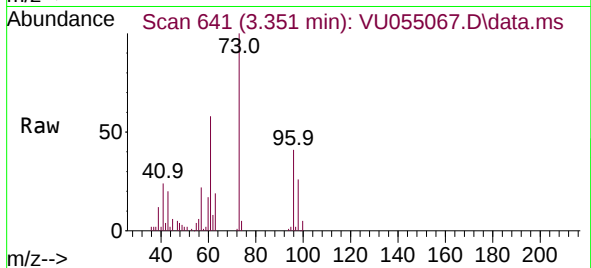
57 22.5 17.4 26.2



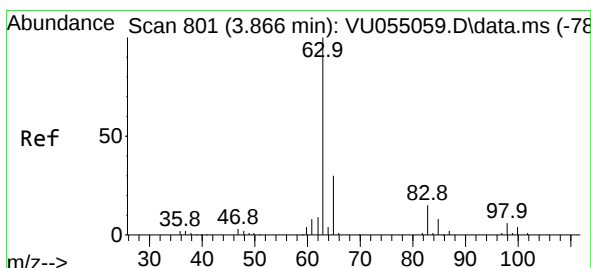
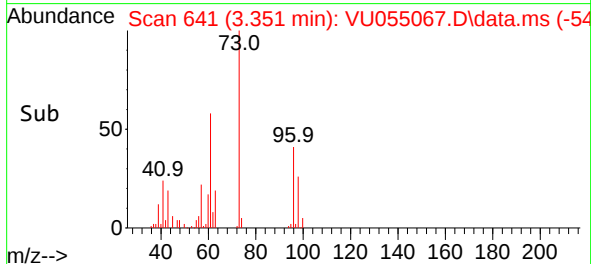
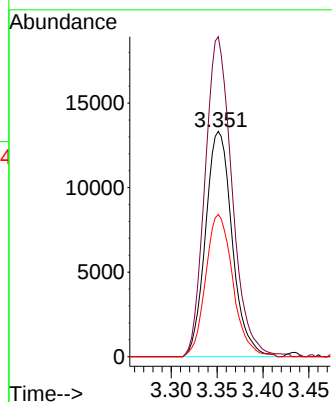


#18
trans-1,2-Dichloroethene
Concen: 2.982 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Instrument :
MSVOA_U
ClientSampleId :

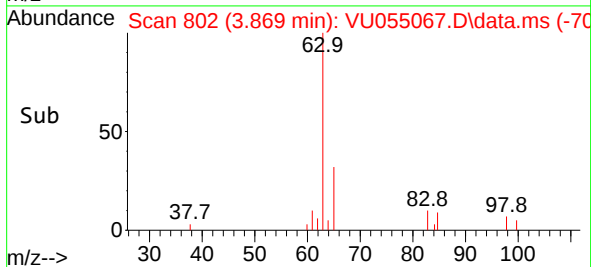
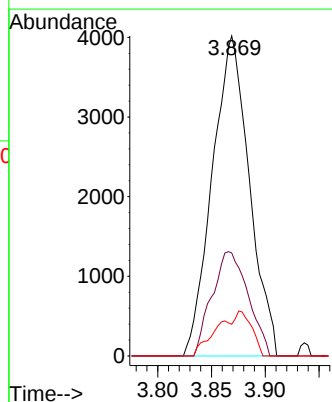
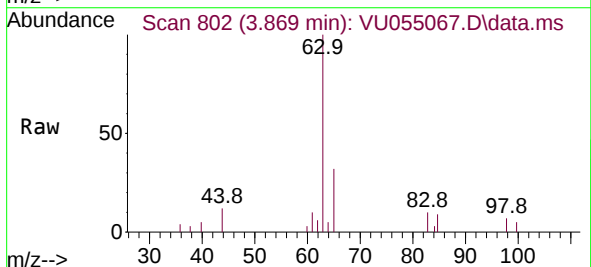


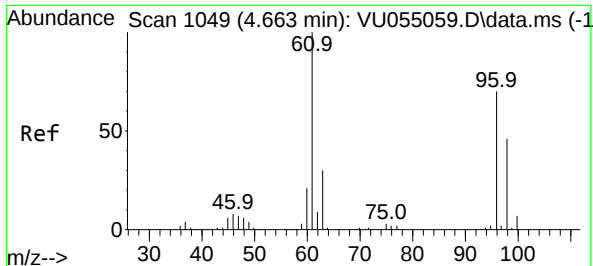
Tgt Ion: 96 Resp: 26997
Ion Ratio Lower Upper
96 100
61 142.0 108.1 200.9
98 63.2 45.4 84.4



#19
1,1-Dichloroethane
Concen: 0.491 ug/L
RT: 3.869 min Scan# 802
Delta R.T. 0.003 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Tgt Ion: 63 Resp: 9609
Ion Ratio Lower Upper
63 100
65 32.2 22.2 41.2
83 9.9 10.6 19.8#





#22

cis-1,2-Dichloroethene

Concen: 408.774 ug/L

RT: 4.660 min Scan# 110

Delta R.T. -0.003 min

Lab File: VU055067.D

Acq: 02 Sep 2023 02:21

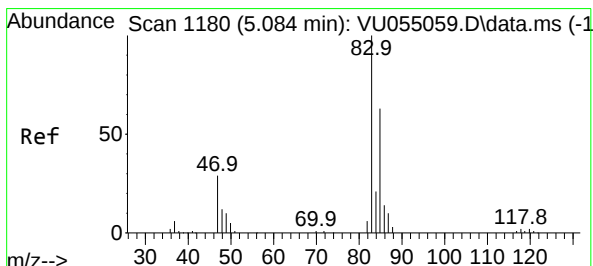
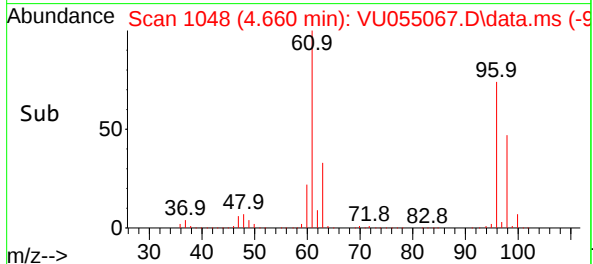
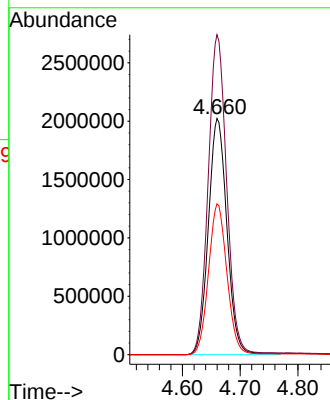
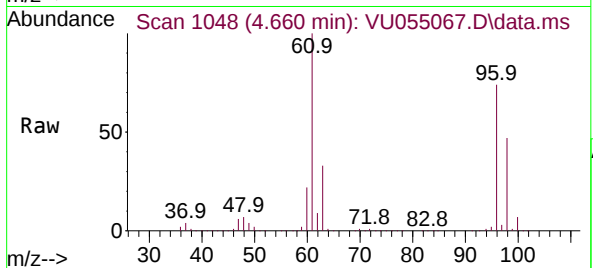
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp: 4529476

Ion	Ratio	Lower	Upper
96	100		
61	135.5	97.2	180.4
98	63.9	46.1	85.7



#25

Chloroform

Concen: 1.617 ug/L

RT: 5.087 min Scan# 1181

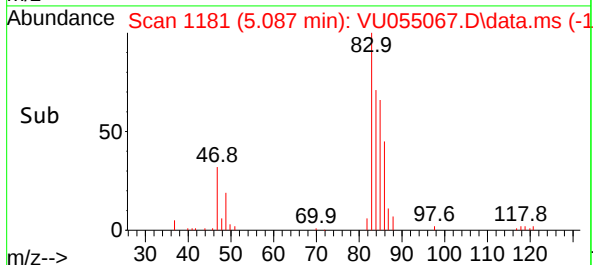
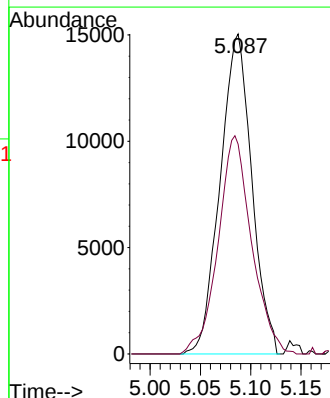
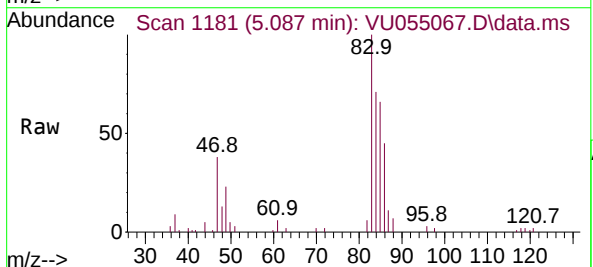
Delta R.T. 0.003 min

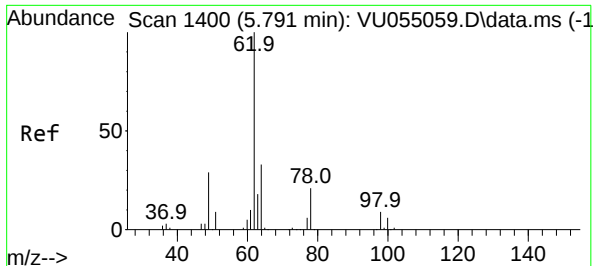
Lab File: VU055067.D

Acq: 02 Sep 2023 02:21

Tgt Ion: 83 Resp: 32945

Ion	Ratio	Lower	Upper
83	100		
85	65.6	47.2	87.6

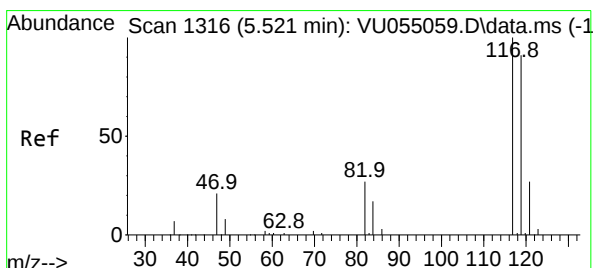
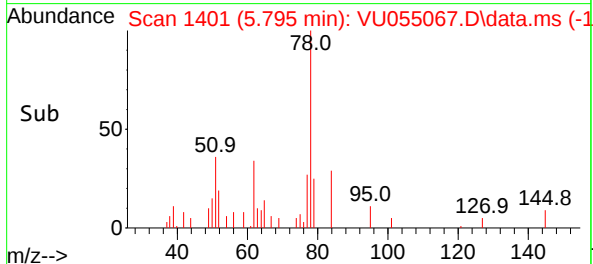
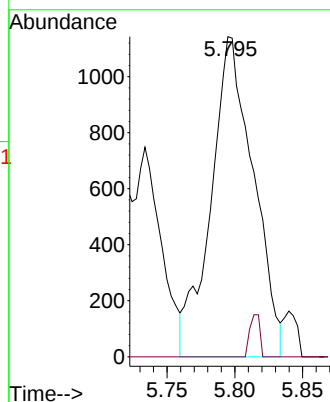
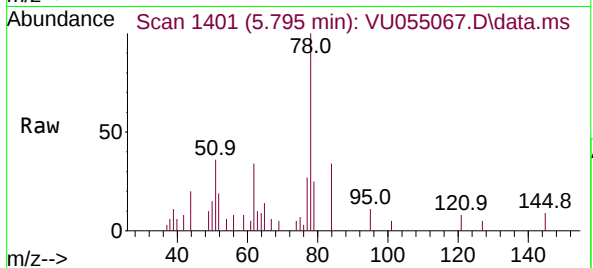




#27
1,2-Dichloroethane
Concen: 0.200 ug/L
RT: 5.795 min Scan# 1400
Delta R.T. 0.003 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

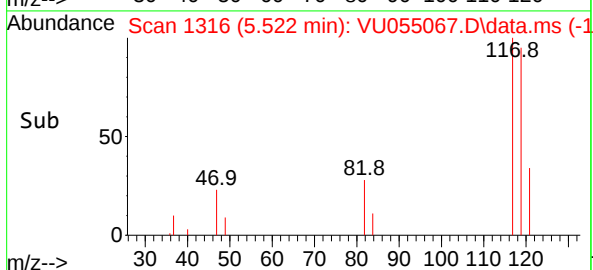
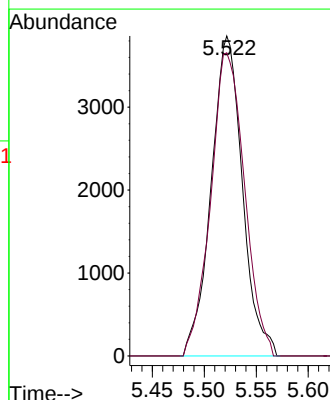
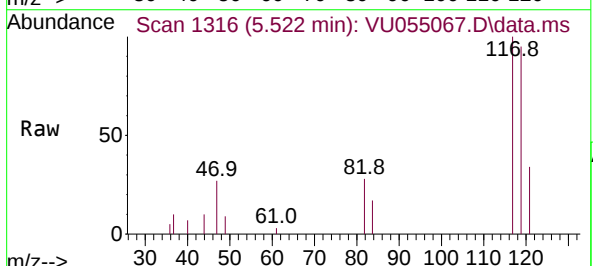
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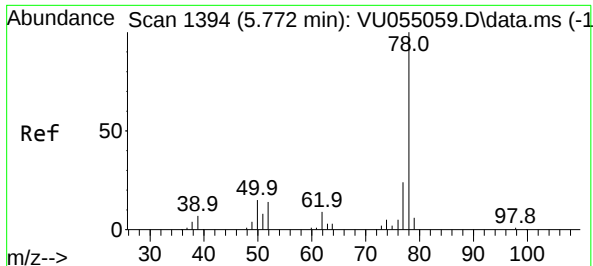
Tgt Ion: 62 Resp: 2483
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



#31
Carbon tetrachloride
Concen: 0.579 ug/L
RT: 5.522 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Tgt Ion: 117 Resp: 8054
Ion Ratio Lower Upper
117 100
119 102.6 75.4 113.0

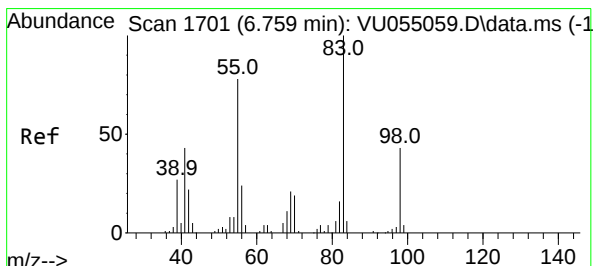
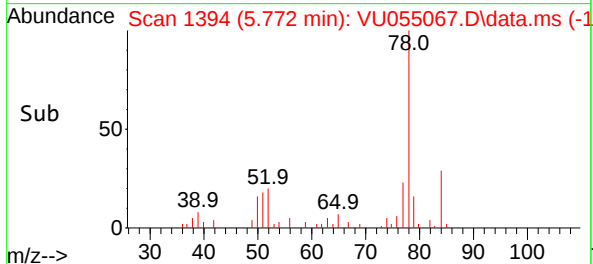
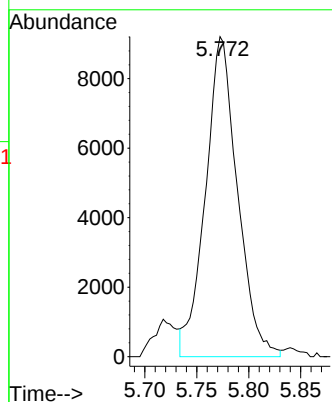
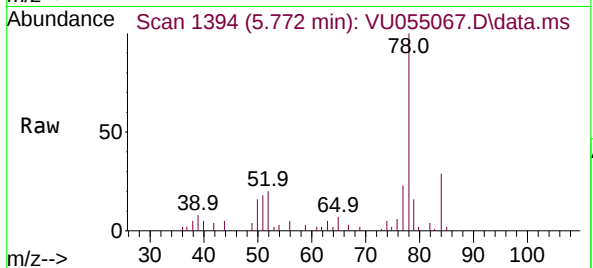




#33
Benzene
Concen: 0.479 ug/L
RT: 5.772 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

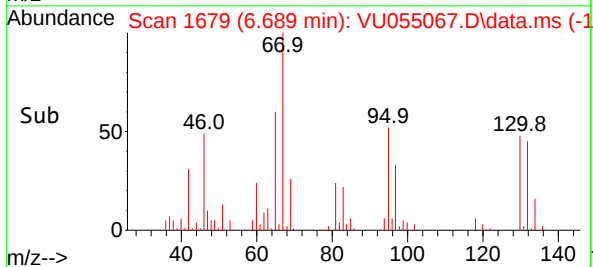
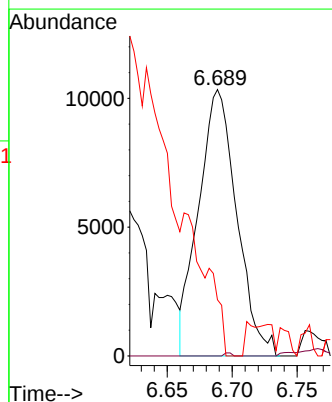
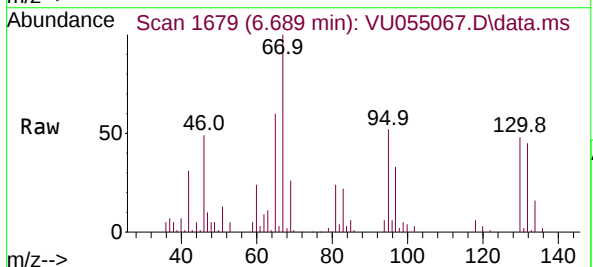
Instrument :
MSVOA_U
ClientSampleId :

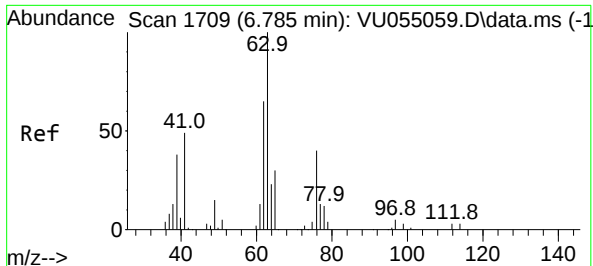
Tgt Ion: 78 Resp: 19706



#35
Methylcyclohexane
Concen: 1.318 ug/L
RT: 6.689 min Scan# 1679
Delta R.T. -0.071 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Tgt Ion: 83 Resp: 21166
Ion Ratio Lower Upper
83 100
55 0.2 60.4 90.6#
98 0.0 35.3 52.9#





#37

1,2-Dichloropropane

Concen: 0.803 ug/L

RT: 6.689 min Scan# 1

Delta R.T. -0.096 min

Lab File: VU055067.D

Acq: 02 Sep 2023 02:21

Instrument :

MSVOA_U

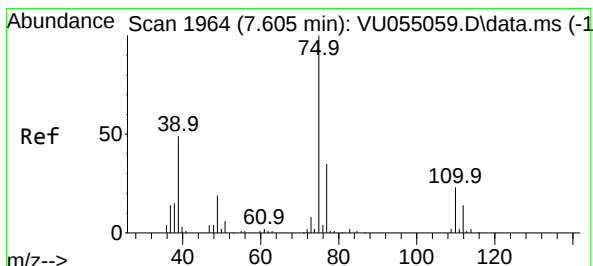
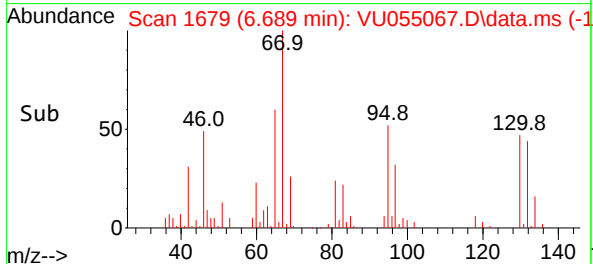
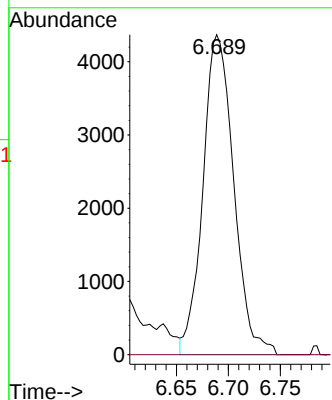
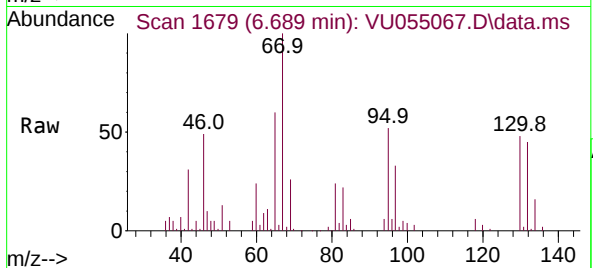
ClientSampleId :

Tgt Ion: 63 Resp: 9004

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.116 ug/L

RT: 7.563 min Scan# 1951

Delta R.T. -0.042 min

Lab File: VU055067.D

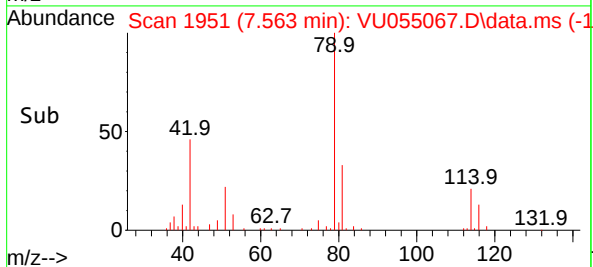
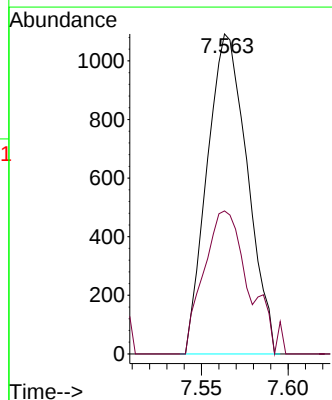
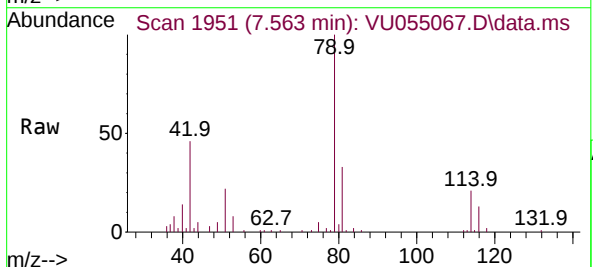
Acq: 02 Sep 2023 02:21

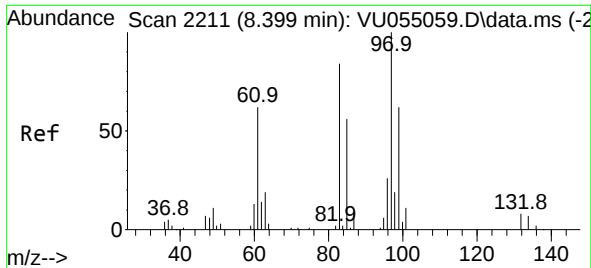
Tgt Ion: 75 Resp: 1762

Ion Ratio Lower Upper

75 100

77 44.7 20.9 38.9#

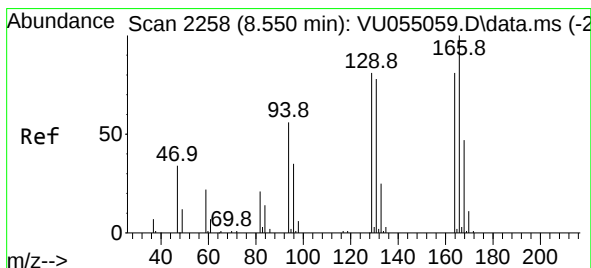
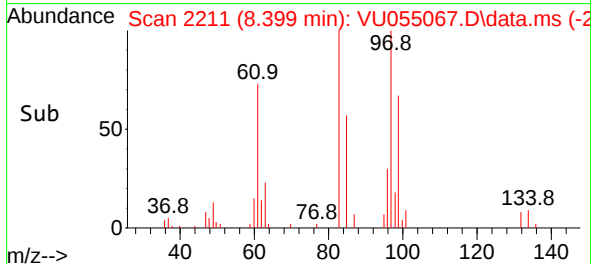
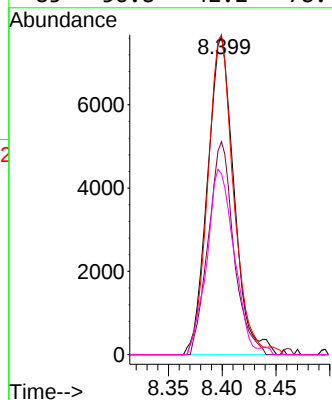
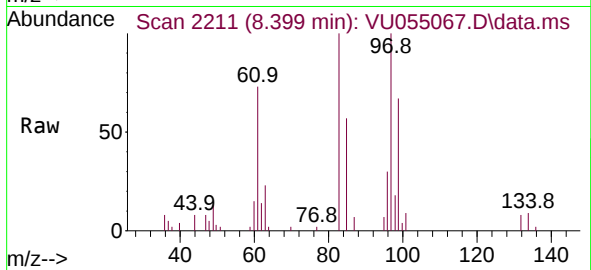




#45
 1,1,2-Trichloroethane
 Concen: 1.728 ug/L
 RT: 8.399 min Scan# 2211
 Delta R.T. 0.000 min
 Lab File: VU055067.D
 Acq: 02 Sep 2023 02:21

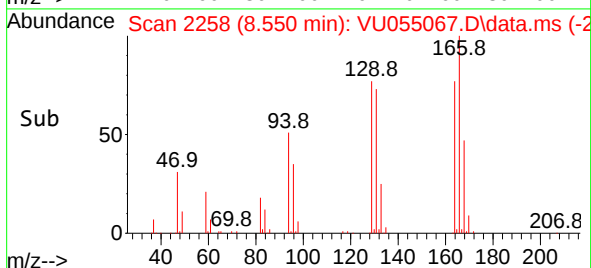
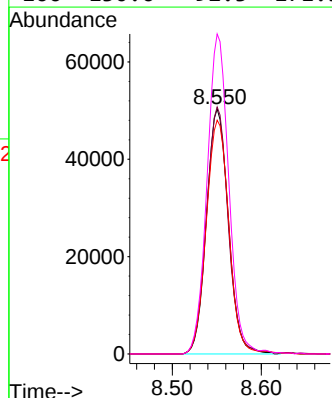
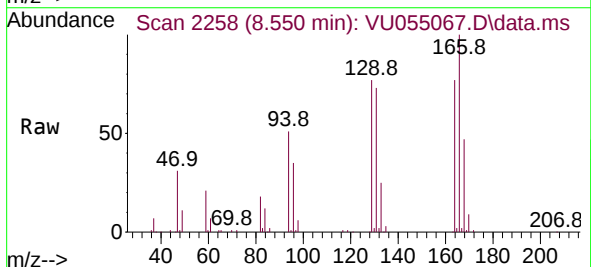
Instrument :
 MSVOA_U
 ClientSampleId :

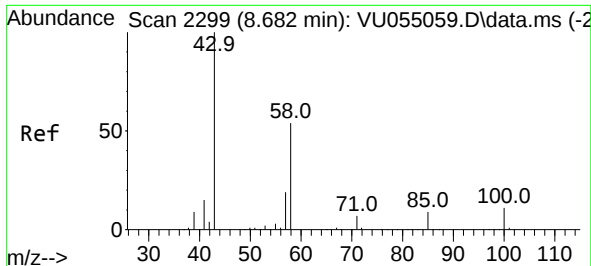
Tgt Ion:	97	Resp:	13053
Ion	Ratio	Lower	Upper
97	100		
99	66.9	44.9	83.5
83	100.5	66.9	124.3
85	56.8	42.2	78.4



#47
 Tetrachloroethene
 Concen: 10.908 ug/L
 RT: 8.550 min Scan# 2258
 Delta R.T. 0.000 min
 Lab File: VU055067.D
 Acq: 02 Sep 2023 02:21

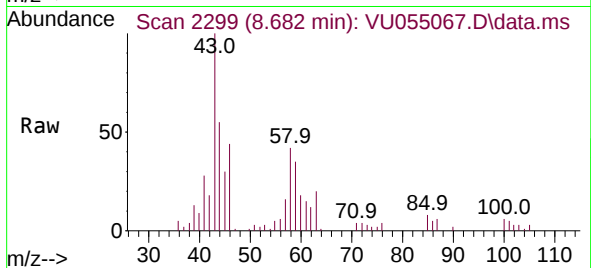
Tgt Ion:	164	Resp:	86288
Ion	Ratio	Lower	Upper
164	100		
129	100.8	69.2	128.6
131	95.4	68.8	127.8
166	130.6	92.3	171.5



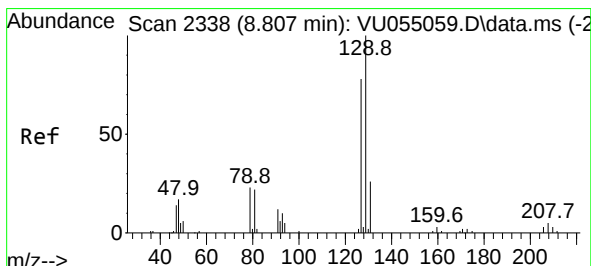
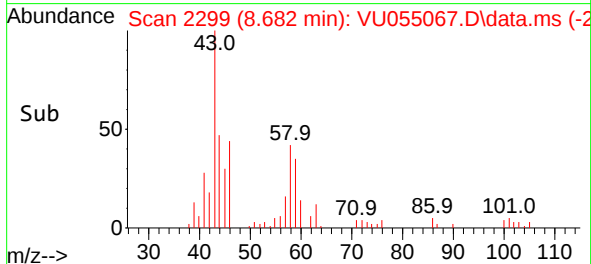
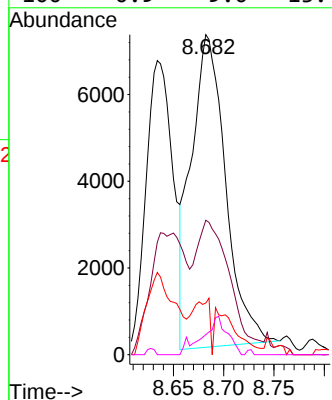


#48
2-Hexanone
Concen: 3.422 ug/L
RT: 8.682 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Instrument :
MSVOA_U
ClientSampleId :

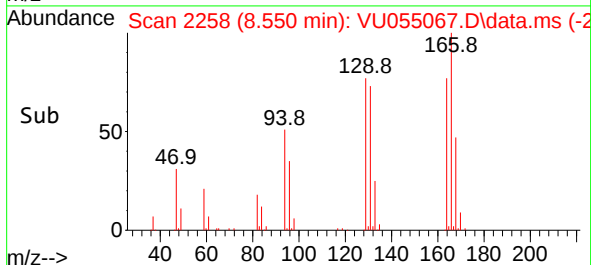
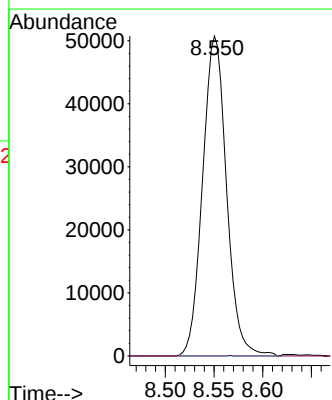
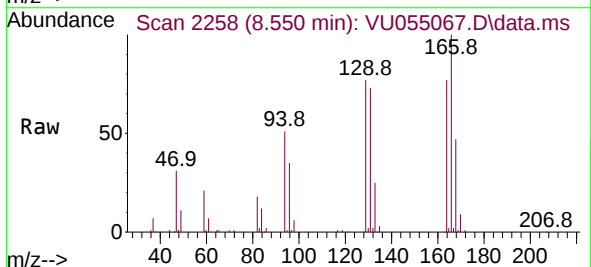


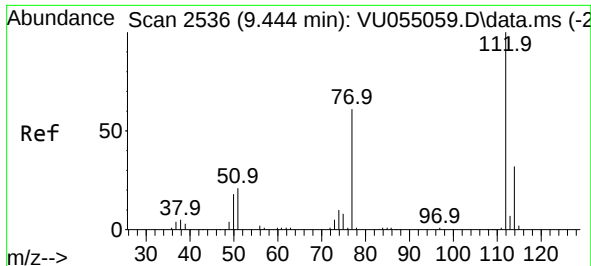
Tgt Ion: 43 Resp: 17141
Ion Ratio Lower Upper
43 100
58 35.2 44.0 66.0#
57 8.9 16.2 24.2#
100 0.9 9.0 13.4#



#49
Dibromochloromethane
Concen: 10.520 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.257 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

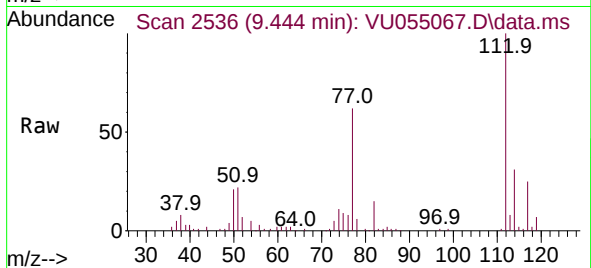
Tgt Ion: 129 Resp: 86720
Ion Ratio Lower Upper
129 100
127 0.0 55.9 103.7#



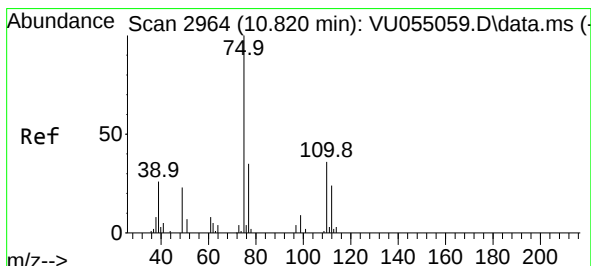
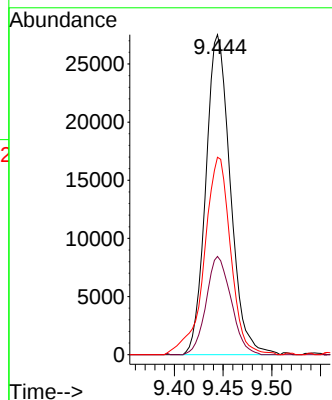
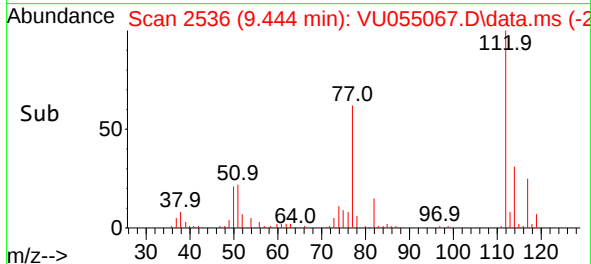


#51
Chlorobenzene
Concen: 1.655 ug/L
RT: 9.444 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Instrument :
MSVOA_U
ClientSampleId :

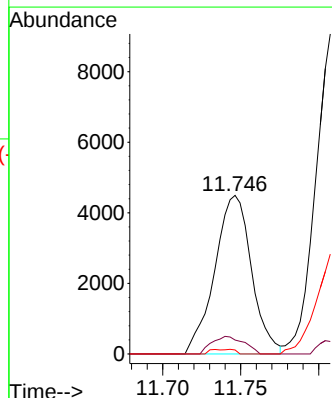
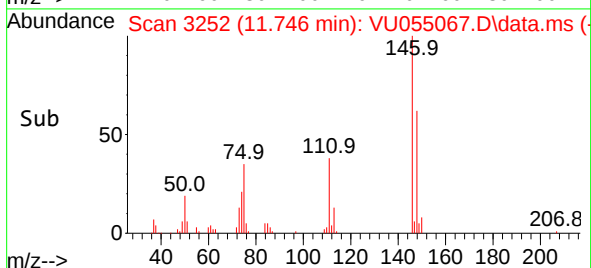
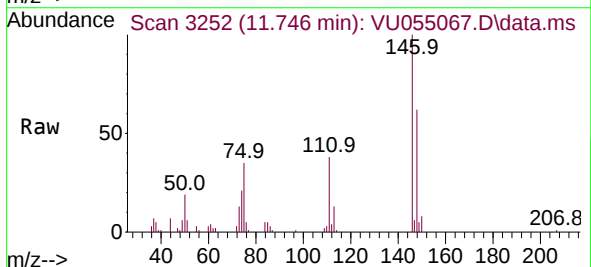


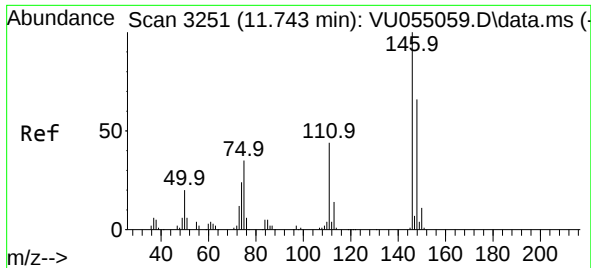
Tgt Ion:112 Resp: 48133
Ion Ratio Lower Upper
112 100
114 30.7 21.7 40.3
77 61.7 48.6 72.8



#61
1,2,3-Trichloropropane
Concen: 1.119 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.926 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Tgt Ion: 75 Resp: 7364
Ion Ratio Lower Upper
75 100
110 9.7 28.2 42.2#
77 0.0 26.2 39.4#

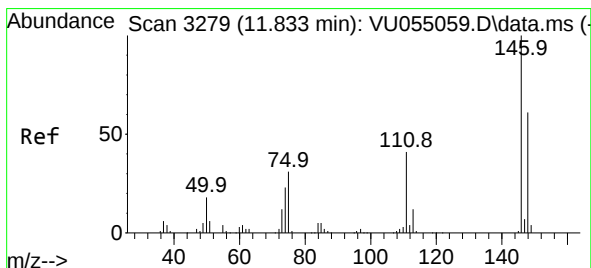
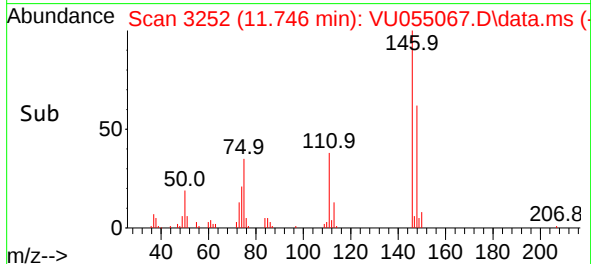
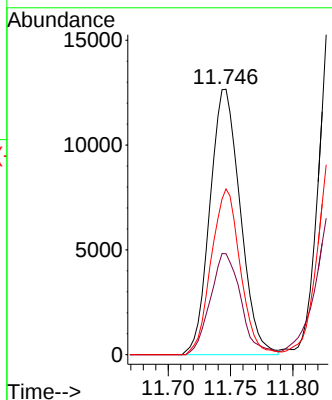
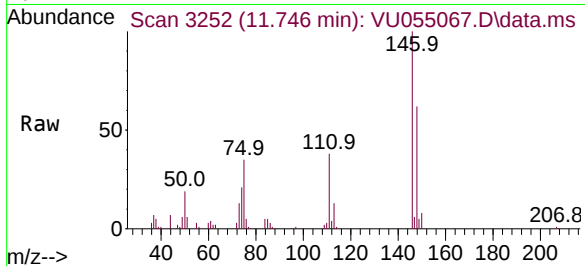




#64
1,3-Dichlorobenzene
Concen: 0.967 ug/L
RT: 11.746 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

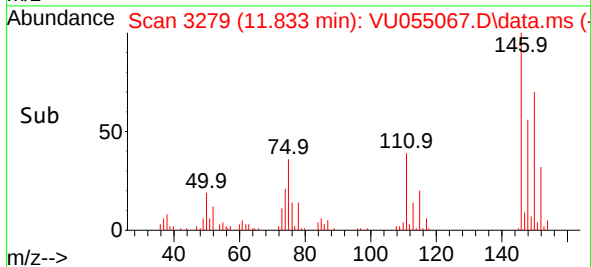
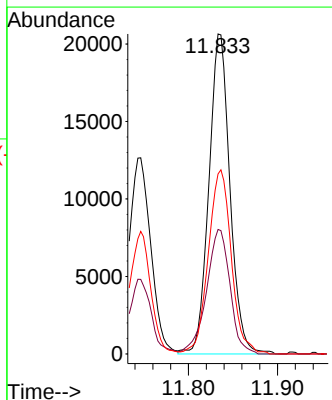
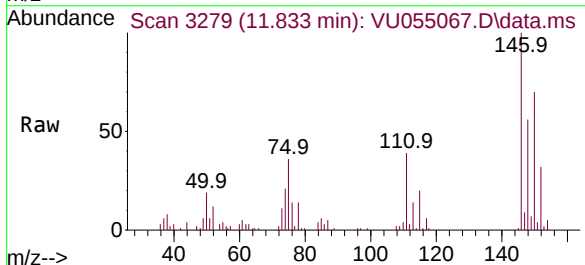
Instrument :
MSVOA_U
ClientSampleId :

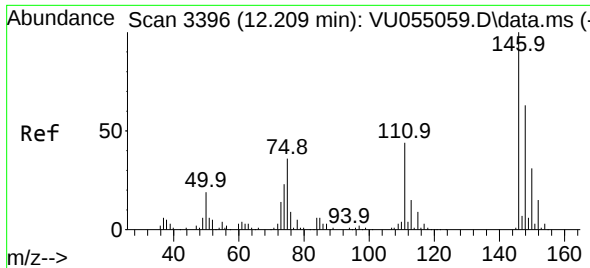
Tgt Ion:146 Resp: 21476
Ion Ratio Lower Upper
146 100
111 38.0 30.0 55.6
148 62.5 45.2 84.0



#65
1,4-Dichlorobenzene
Concen: 1.531 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

Tgt Ion:146 Resp: 33884
Ion Ratio Lower Upper
146 100
111 38.9 28.1 52.1
148 56.3 43.8 81.3

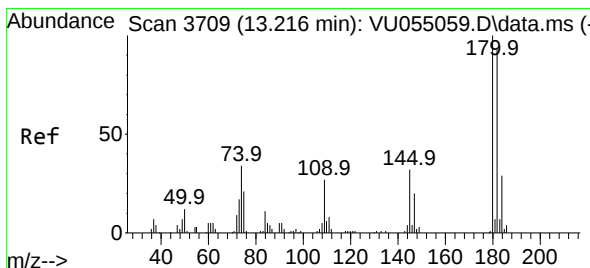
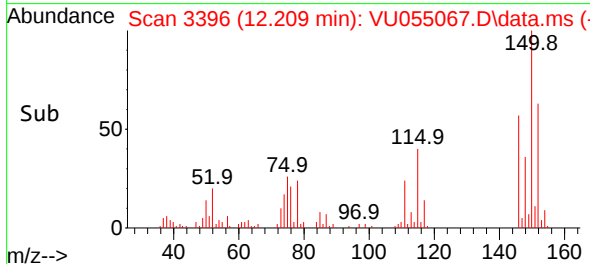
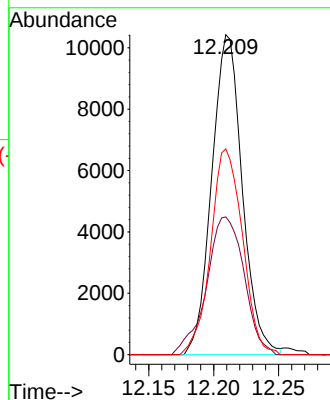
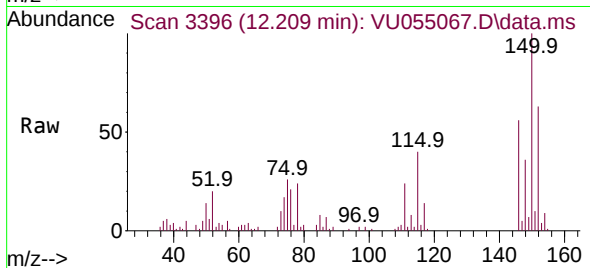




#67
1,2-Dichlorobenzene
Concen: 0.818 ug/L
RT: 12.209 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

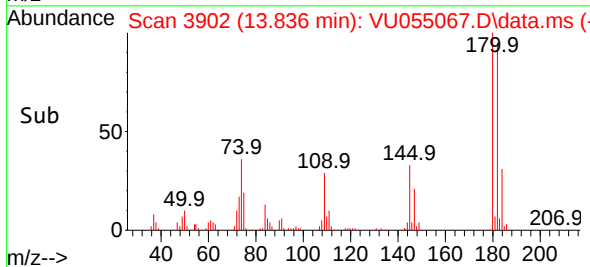
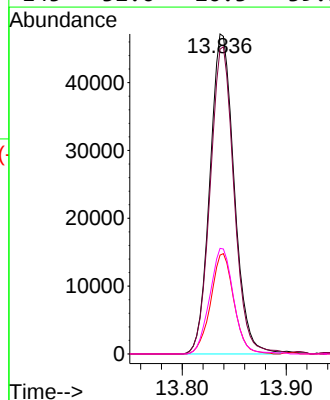
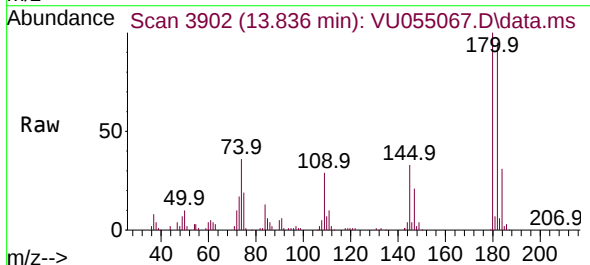
Instrument :
MSVOA_U
ClientSampleId :

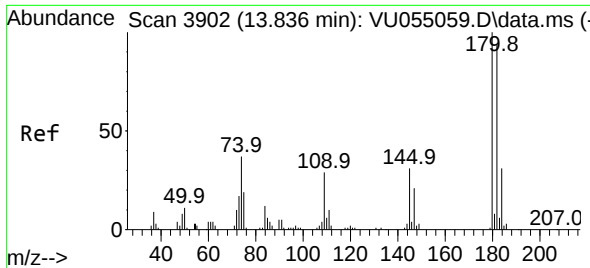
Tgt Ion:146 Resp: 17030
Ion Ratio Lower Upper
146 100
111 43.0 35.6 53.4
148 64.3 51.3 76.9



#69
1,3,5-Trichlorobenzene
Concen: 4.550 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.621 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

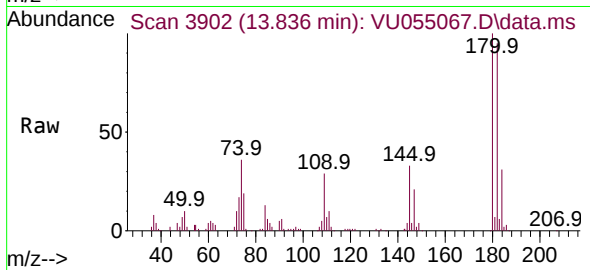
Tgt Ion:180 Resp: 76348
Ion Ratio Lower Upper
180 100
182 94.6 75.8 113.6
184 29.9 24.0 36.0
145 32.6 26.3 39.5



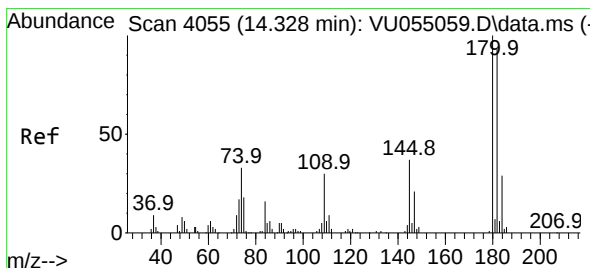
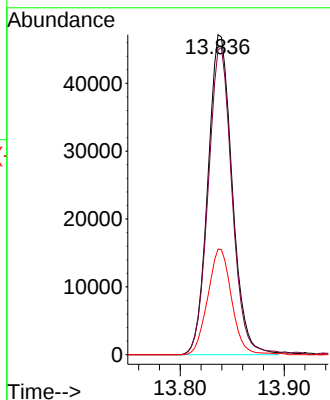
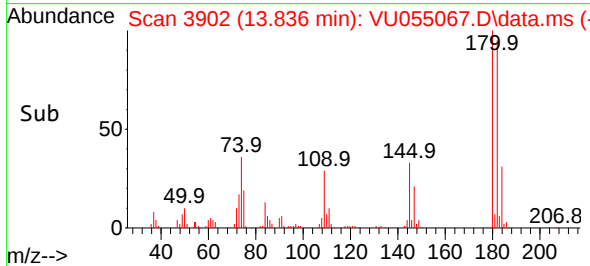


#70
1,2,4-trichlorobenzene
Concen: 4.853 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21

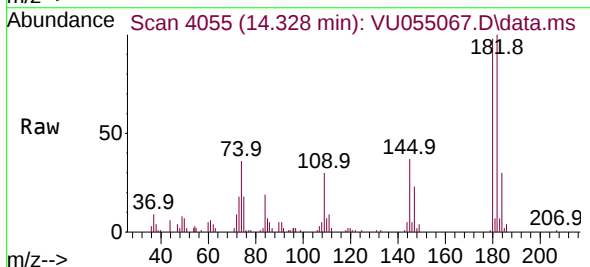
Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:180 Resp: 76348
Ion Ratio Lower Upper
180 100
182 94.6 73.6 110.4
145 32.6 25.8 38.8



#72
1,2,3-Trichlorobenzene
Concen: 2.421 ug/L
RT: 14.328 min Scan# 4055
Delta R.T. 0.000 min
Lab File: VU055067.D
Acq: 02 Sep 2023 02:21



Tgt Ion:180 Resp: 33061
Ion Ratio Lower Upper
180 100
182 97.5 75.6 113.4
145 35.8 27.0 40.6

