

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100223\
 Data File : VU055616.D
 Acq On : 02 Oct 2023 19:53
 Operator : MD/SY
 Sample : 04679-06MSD
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-4(20230927)MSD

Quant Time: Oct 03 05:00:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR091923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 27 23:33:30 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	168865	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	173376	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	100303	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	67281	3.942	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.800%
7) Chloroethane-d5	1.914	69	66130	4.397	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.000%
11) 1,1-Dichloroethene-d2	2.563	65	27002	3.844	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.800%
20) 2-Butanone-d5	4.647	46	136591	44.309	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.620%
24) Chloroform-d	5.058	84	137227	4.445	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.000%
26) 1,2-Dichloroethane-d4	5.702	65	68161	4.590	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.800%
32) Benzene-d6	5.724	84	252062	4.156	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.200%
36) 1,2-Dichloropropane-d6	6.689	67	80546	4.445	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.000%
41) Toluene-d8	7.898	98	227570	4.117	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.400%
43) trans-1,3-Dichloroprop...	8.181	79	29064	4.571	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.400%
46) 2-Hexanone-d5	8.634	63	98498	50.927	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.860%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	68133	5.017	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	82061	4.053	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	81.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	75290	4.580	ug/L	99
3) Chloromethane	1.518	50	84651	5.853	ug/L	99
5) Vinyl chloride	1.602	62	100058	6.413	ug/L	97
6) Bromomethane	1.856	94	48008	4.844	ug/L	97
8) Chloroethane	1.933	64	72957	7.165	ug/L	94
9) Trichlorofluoromethane	2.136	101	131729	6.088	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.579	101	66167	5.025	ug/L	98
12) 1,1-Dichloroethene	2.576	96	61276	5.190	ug/L	90
13) Acetone	2.666	43	70519	40.131	ug/L	76
14) Carbon disulfide	2.792	76	180235	5.078	ug/L	100
15) Methyl Acetate	2.959	43	15472	3.862	ug/L #	74
16) Methylene chloride	3.042	84	69482	4.912	ug/L	98
17) Methyl tert-butyl Ether	3.364	73	131743	5.144	ug/L	99
18) trans-1,2-Dichloroethene	3.351	96	63475	5.334	ug/L	96
19) 1,1-Dichloroethane	3.869	63	120547	5.478	ug/L	98
21) 2-Butanone	4.730	43	117093	45.432	ug/L	87
22) cis-1,2-Dichloroethene	4.663	96	109535	7.939	ug/L	99
23) Bromochloromethane	4.972	128	28992	4.972	ug/L	92
25) Chloroform	5.084	83	125648	5.392	ug/L	100

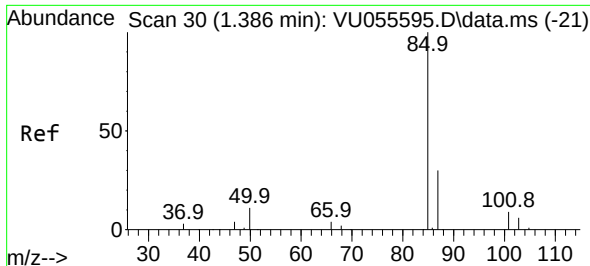
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100223\
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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.792	62	77995	5.458	ug/L	99
29) 1,1,1-Trichloroethane	5.312	97	108215	5.475	ug/L	97
30) Cyclohexane	5.386	56	93497	5.168	ug/L	98
31) Carbon tetrachloride	5.521	117	90904	5.366	ug/L	99
33) Benzene	5.772	78	274589	5.503	ug/L	100
34) Trichloroethene	6.537	95	80845	5.727	ug/L	97
35) Methylcyclohexane	6.759	83	100653	4.950	ug/L	98
37) 1,2-Dichloropropane	6.785	63	69650	5.337	ug/L	99
38) Bromodichloromethane	7.103	83	87572	5.726	ug/L	96
39) cis-1,3-Dichloropropene	7.605	75	94857	5.446	ug/L	98
40) 4-Methyl-2-pentanone	7.791	43	320248	54.097	ug/L	97
42) Toluene	7.968	91	293944	5.522	ug/L	100
44) trans-1,3-Dichloropropene	8.209	75	77259	5.544	ug/L	99
45) 1,1,2-Trichloroethane	8.396	97	48427	5.292	ug/L	97
47) Tetrachloroethene	8.550	164	50876	5.025	ug/L	97
48) 2-Hexanone	8.685	43	249424	54.364	ug/L	96
49) Dibromochloromethane	8.807	129	51675	5.387	ug/L	99
50) 1,2-Dibromoethane	8.923	107	44580	5.250	ug/L	97
51) Chlorobenzene	9.444	112	324088	9.506	ug/L	99
52) Ethylbenzene	9.566	91	307320	5.386	ug/L	98
53) m,p-Xylene	9.692	106	114272	5.344	ug/L	95
54) o-Xylene	10.097	106	110326	5.306	ug/L	96
55) Styrene	10.113	104	181092	5.387	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.778	83	57786	5.594	ug/L	96
59) Bromoform	10.287	173	27438	5.104	ug/L	98
60) Isopropylbenzene	10.483	105	298110	5.157	ug/L	99
61) 1,2,3-Trichloropropane	10.820	75	39124	4.997	ug/L	98
62) 1,3,5-Trimethylbenzene	11.087	105	229100	4.956	ug/L	100
63) 1,2,4-Trimethylbenzene	11.467	105	227206	5.021	ug/L	99
64) 1,3-Dichlorobenzene	11.743	146	460583	16.642	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	465952	16.845	ug/L	98
67) 1,2-Dichlorobenzene	12.209	146	157552	6.209	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.994	75	7560	5.570	ug/L	94
69) 1,3,5-Trichlorobenzene	13.216	180	104556	5.486	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	382957	26.355	ug/L	99
71) Naphthalene	14.084	128	118159	5.617	ug/L	98
72) 1,2,3-Trichlorobenzene	14.325	180	74573	5.898	ug/L	97

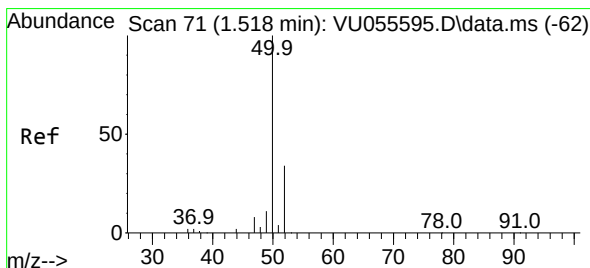
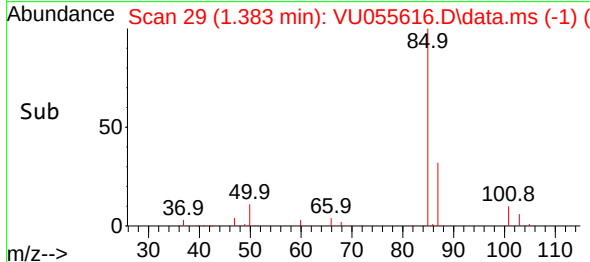
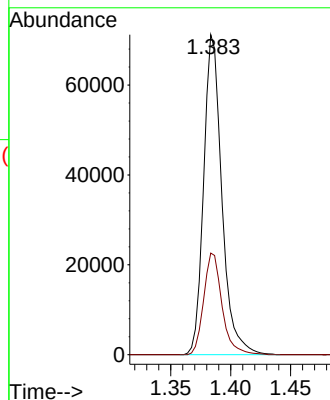
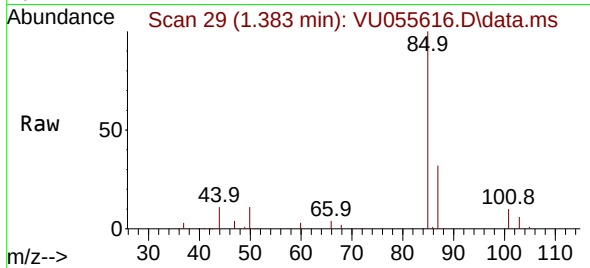
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 4.580 ug/L
 RT: 1.383 min Scan# 29
 Delta R.T. -0.000 min
 Lab File: VU055616.D
 Acq: 02 Oct 2023 19:53

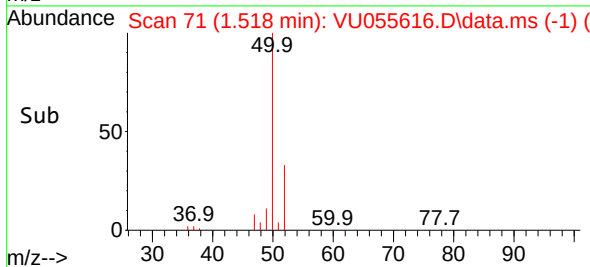
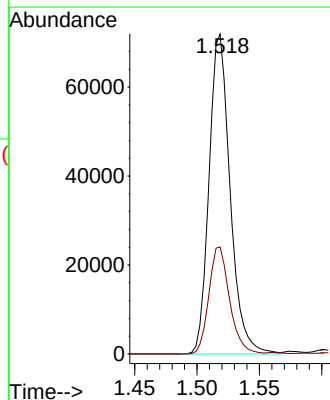
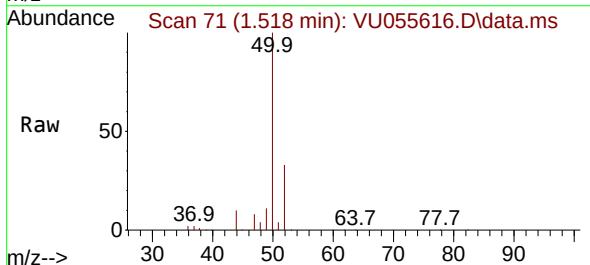
Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-4(20230927)MSD

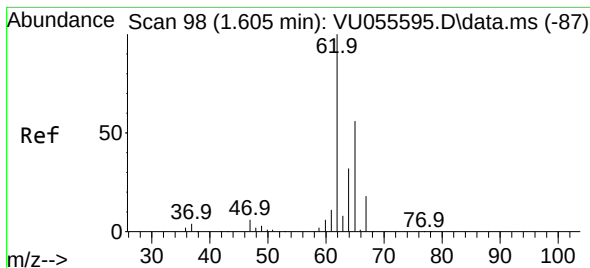
Tgt Ion: 85 Resp: 75290
 Ion Ratio Lower Upper
 85 100
 87 31.9 26.0 39.0



#3
 Chloromethane
 Concen: 5.853 ug/L
 RT: 1.518 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VU055616.D
 Acq: 02 Oct 2023 19:53

Tgt Ion: 50 Resp: 84651
 Ion Ratio Lower Upper
 50 100
 52 33.4 22.9 42.5





#5

Vinyl chloride

Concen: 6.413 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

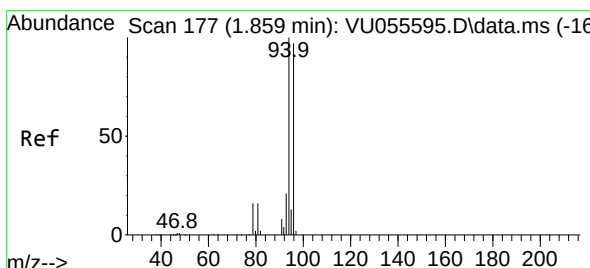
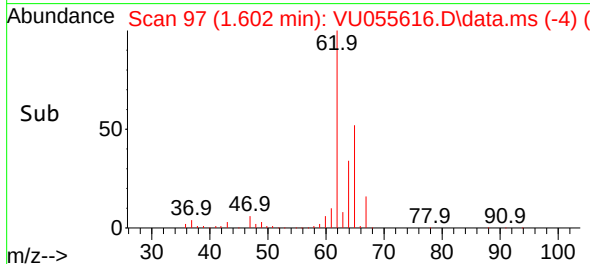
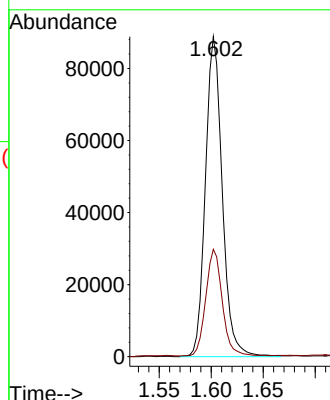
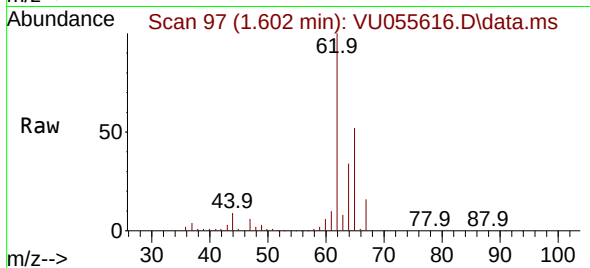
PMW-4(20230927)MSD

Tgt Ion: 62 Resp: 100058

Ion Ratio Lower Upper

62 100

64 33.6 22.3 41.5



#6

Bromomethane

Concen: 4.844 ug/L

RT: 1.856 min Scan# 176

Delta R.T. -0.000 min

Lab File: VU055616.D

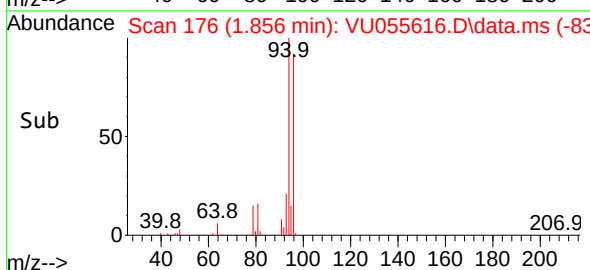
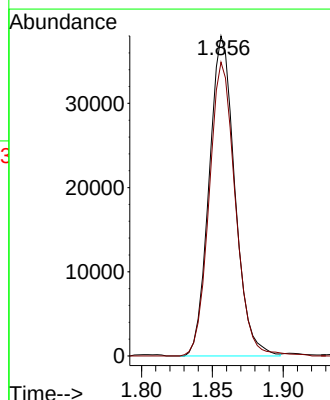
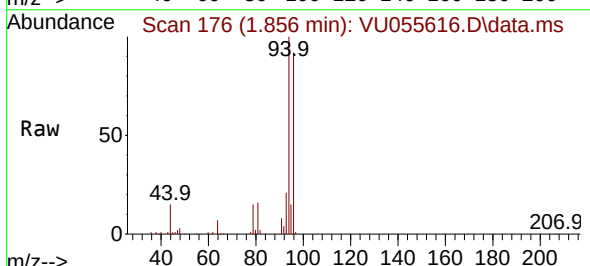
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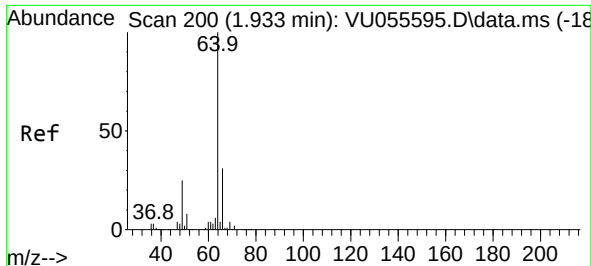
Tgt Ion: 94 Resp: 48008

Ion Ratio Lower Upper

94 100

96 91.8 66.4 123.2





#8

Chloroethane

Concen: 7.165 ug/L

RT: 1.933 min Scan# 200

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

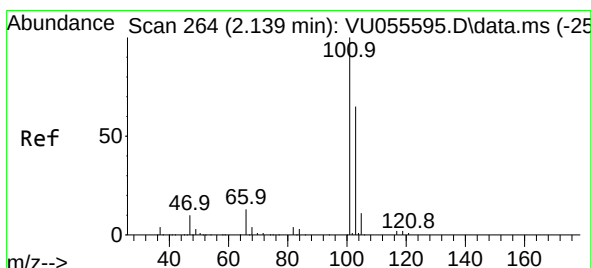
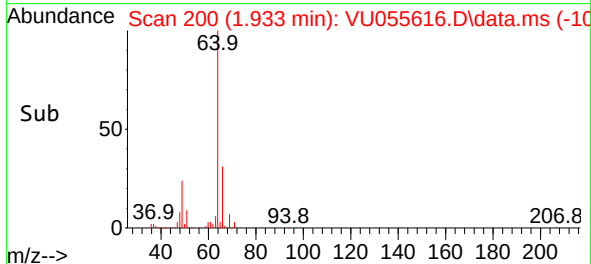
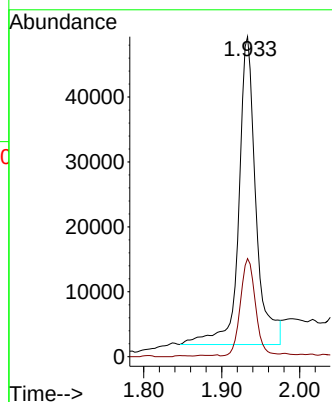
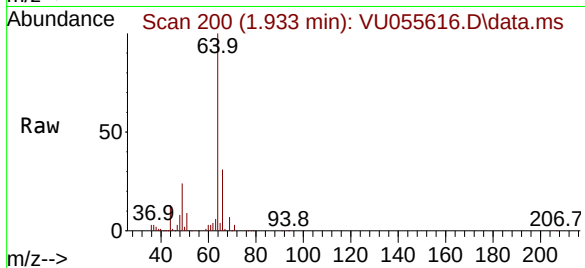
PMW-4(20230927)MSD

Tgt Ion: 64 Resp: 72957

Ion Ratio Lower Upper

64 100

66 30.6 23.7 44.1



#9

Trichlorofluoromethane

Concen: 6.088 ug/L

RT: 2.136 min Scan# 263

Delta R.T. -0.000 min

Lab File: VU055616.D

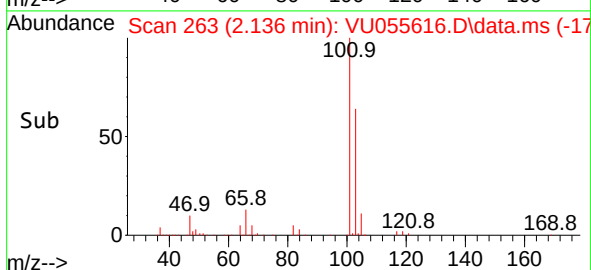
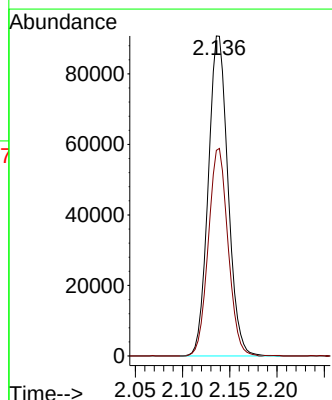
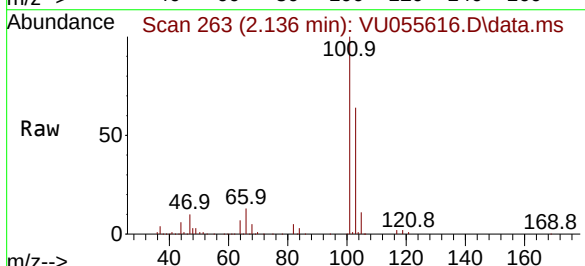
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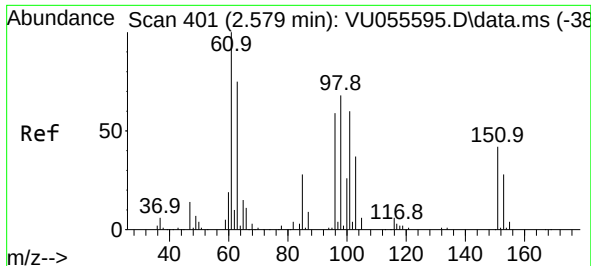
Tgt Ion: 101 Resp: 131729

Ion Ratio Lower Upper

101 100

103 64.7 52.0 78.0

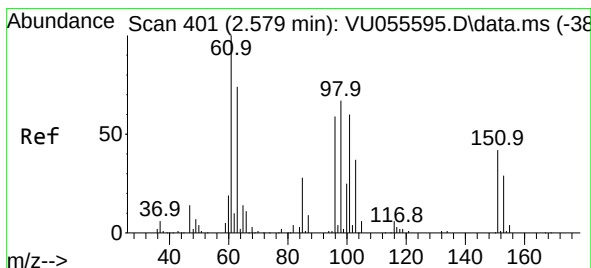
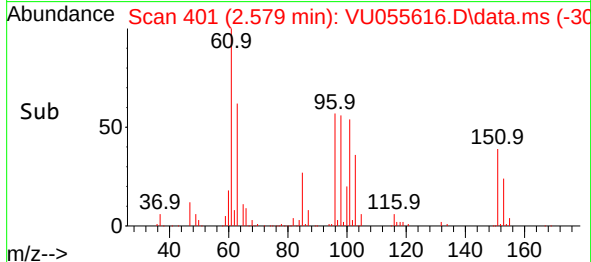
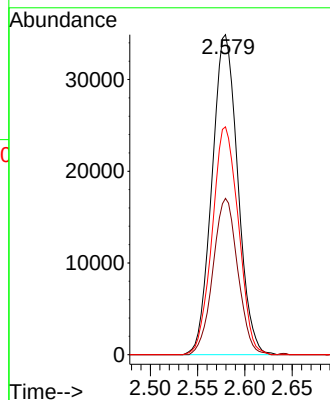
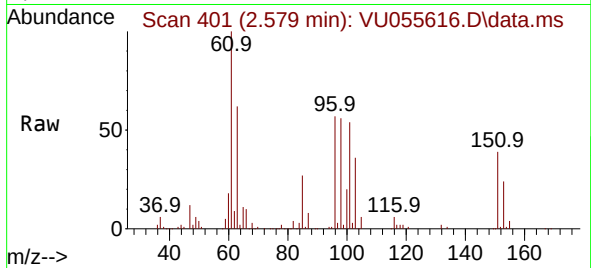




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 5.025 ug/L
 RT: 2.579 min Scan# 401
 Delta R.T. -0.000 min
 Lab File: VU055616.D
 Acq: 02 Oct 2023 19:53

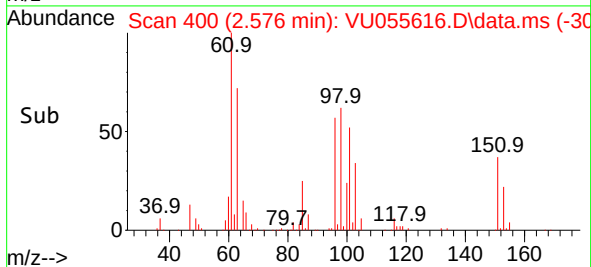
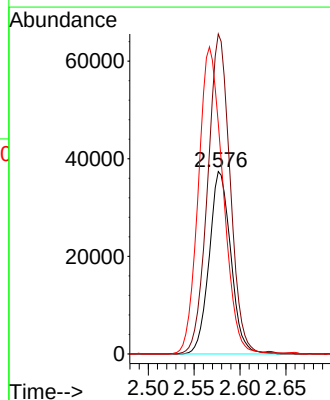
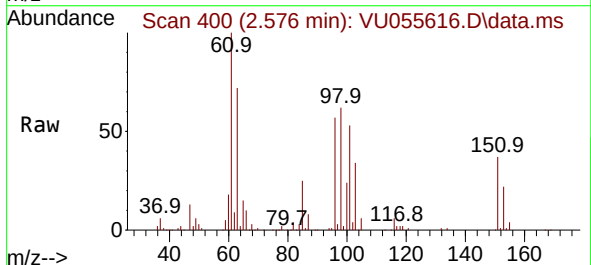
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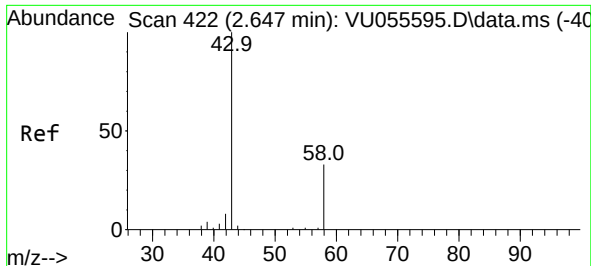
Tgt Ion:101 Resp: 66167
 Ion Ratio Lower Upper
 101 100
 85 47.0 35.8 53.6
 151 72.3 58.2 87.4



#12
 1,1-Dichloroethene
 Concen: 5.190 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. -0.000 min
 Lab File: VU055616.D
 Acq: 02 Oct 2023 19:53

Tgt Ion: 96 Resp: 61276
 Ion Ratio Lower Upper
 96 100
 61 175.4 114.5 212.7
 63 126.4 98.3 182.5





#13

Acetone

Concen: 40.131 ug/L

RT: 2.666 min Scan# 41

Delta R.T. 0.025 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

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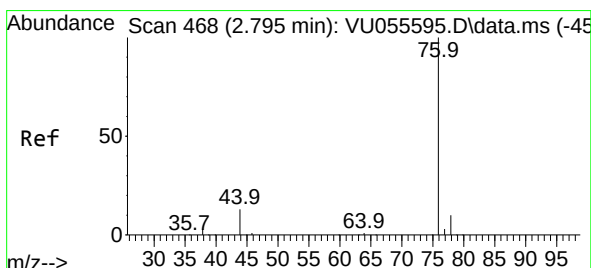
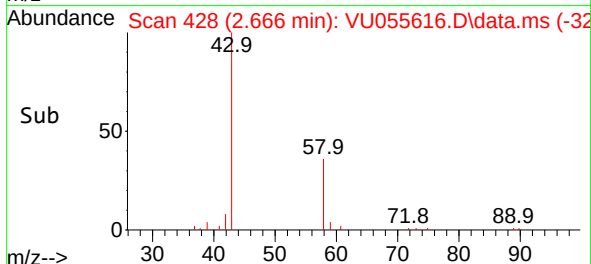
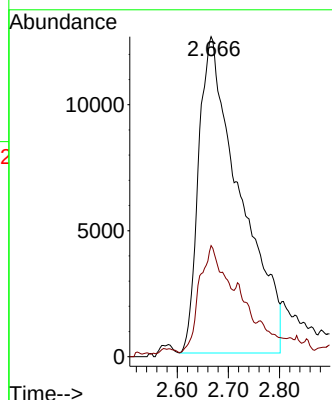
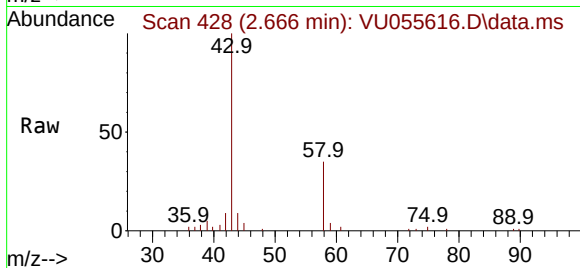
PMW-4(20230927)MSD

Tgt Ion: 43 Resp: 70519

Ion Ratio Lower Upper

43 100

58 22.0 0.0 72.2



#14

Carbon disulfide

Concen: 5.078 ug/L

RT: 2.792 min Scan# 467

Delta R.T. -0.000 min

Lab File: VU055616.D

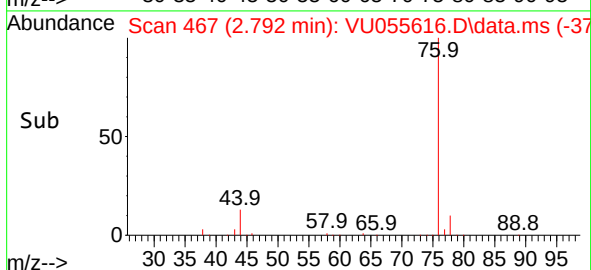
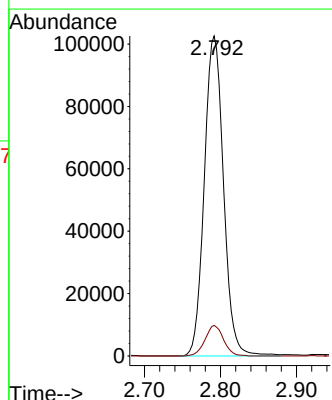
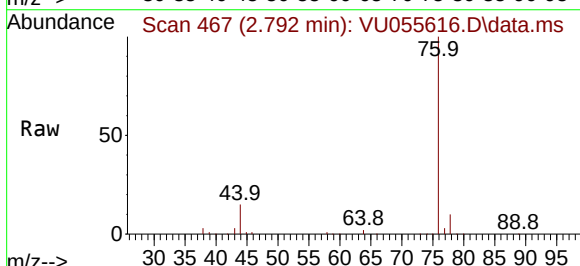
Acq: 02 Oct 2023 19:53

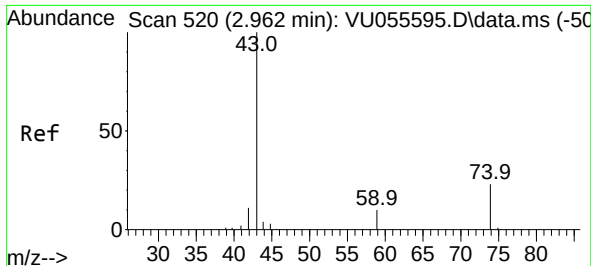
Tgt Ion: 76 Resp: 180235

Ion Ratio Lower Upper

76 100

78 9.6 7.7 11.5

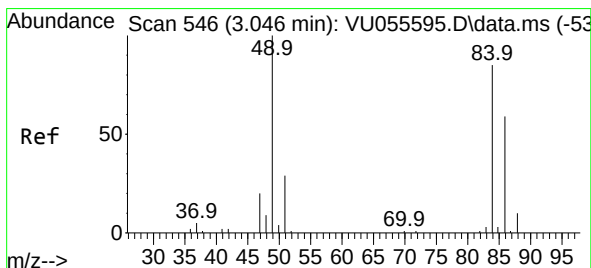
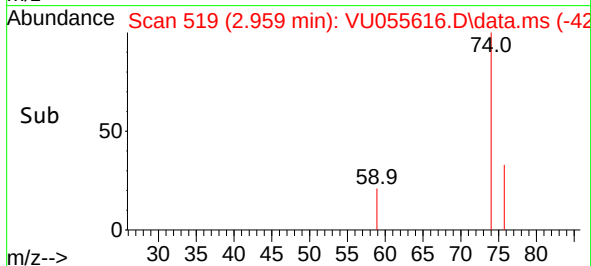
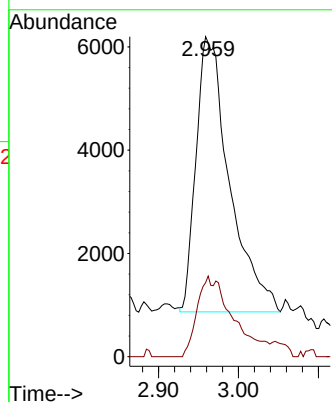
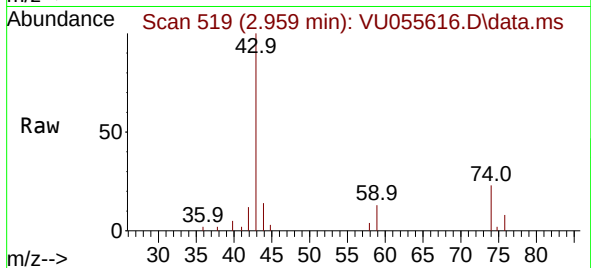




#15
Methyl Acetate
Concen: 3.862 ug/L
RT: 2.959 min Scan# 519
Delta R.T. 0.003 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

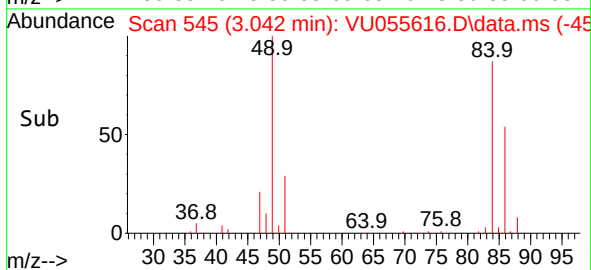
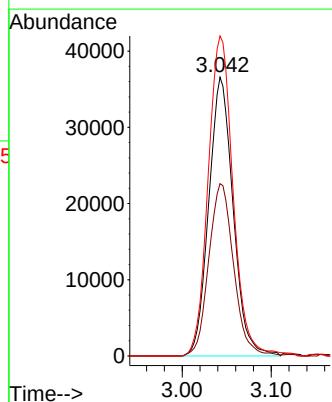
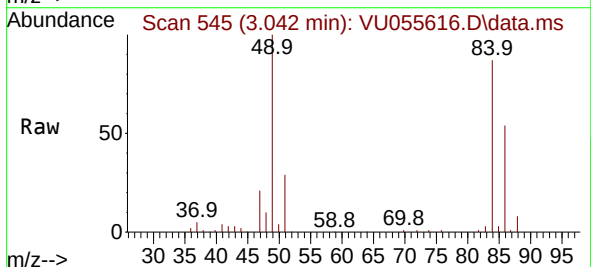
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

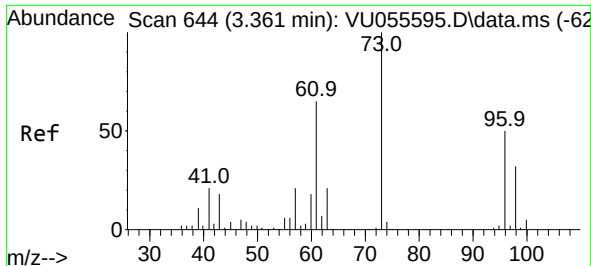
Tgt Ion: 43 Resp: 15472
Ion Ratio Lower Upper
43 100
74 14.1 22.3 33.5#



#16
Methylene chloride
Concen: 4.912 ug/L
RT: 3.042 min Scan# 545
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion: 84 Resp: 69482
Ion Ratio Lower Upper
84 100
86 61.8 44.9 83.3
49 114.8 78.8 146.3

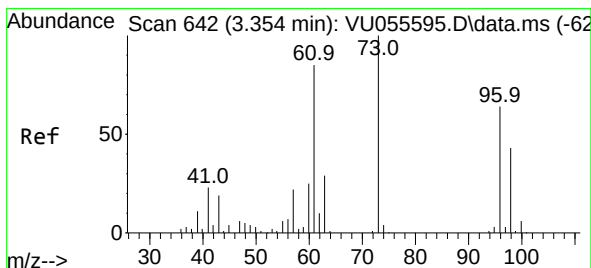
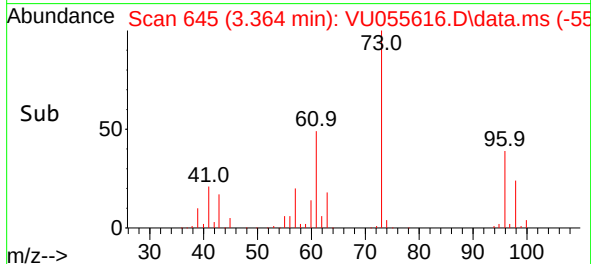
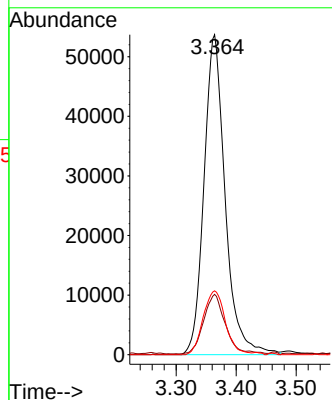
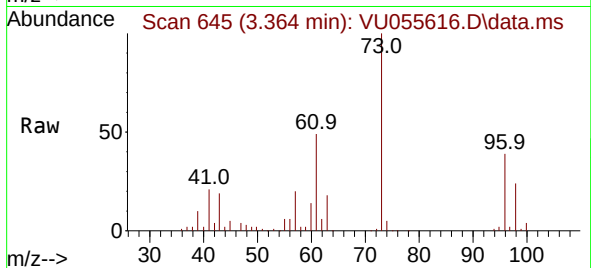




#17
Methyl tert-butyl Ether
Concen: 5.144 ug/L
RT: 3.364 min Scan# 644
Delta R.T. 0.006 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

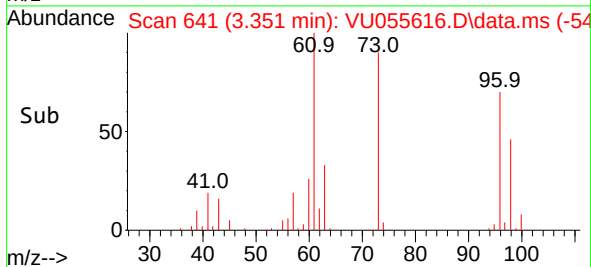
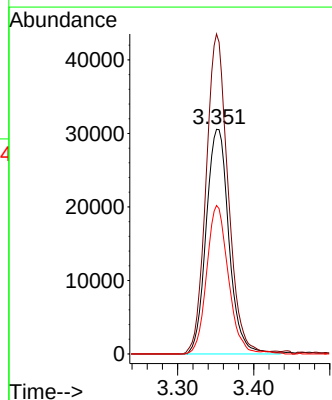
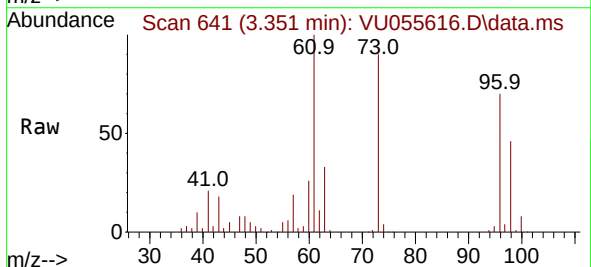
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

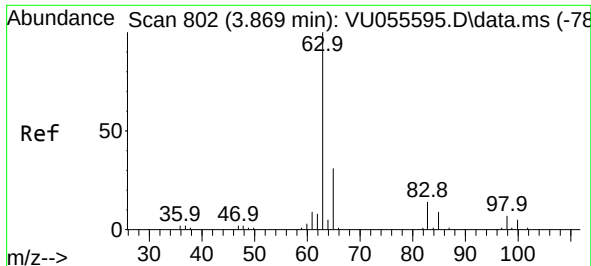
Tgt Ion: 73	Resp: 131743
Ion Ratio	Lower Upper
73 100	
43 18.5	14.9 22.3
57 20.9	17.3 25.9



#18
trans-1,2-Dichloroethene
Concen: 5.334 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion: 96	Resp: 63475
Ion Ratio	Lower Upper
96 100	
61 142.4	94.6 175.6
98 66.1	45.7 84.9





#19

1,1-Dichloroethane

Concen: 5.478 ug/L

RT: 3.869 min Scan# 80

Delta R.T. 0.003 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230927)MSD

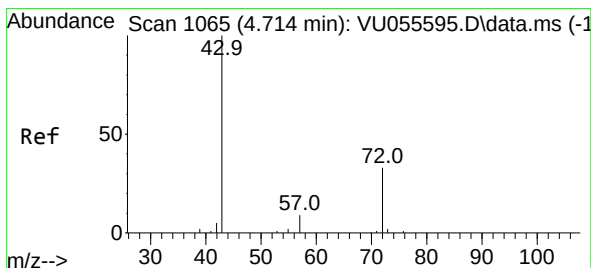
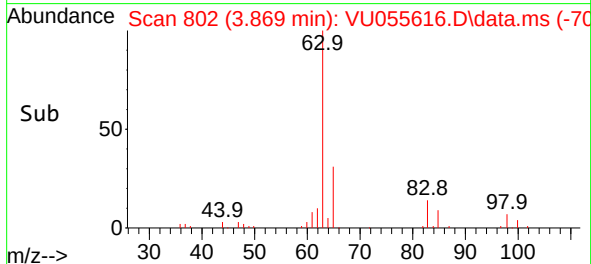
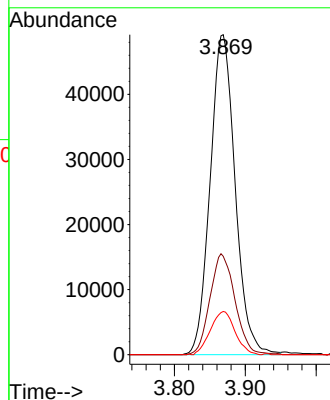
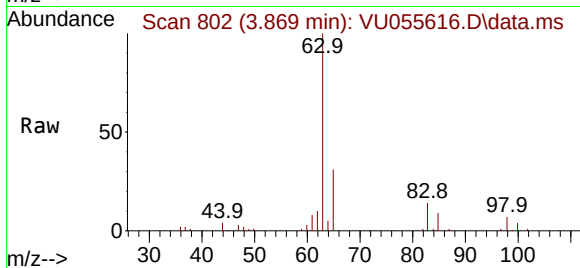
Tgt Ion: 63 Resp: 120547

Ion Ratio Lower Upper

63 100

65 30.7 22.0 41.0

83 13.5 10.1 18.9



#21

2-Butanone

Concen: 45.432 ug/L

RT: 4.730 min Scan# 1070

Delta R.T. 0.022 min

Lab File: VU055616.D

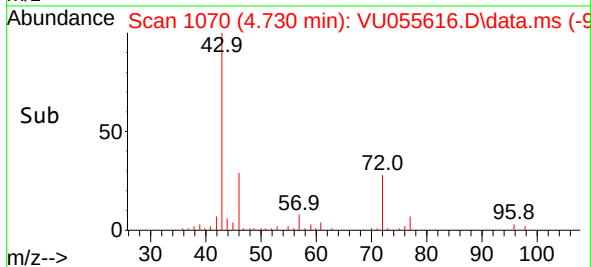
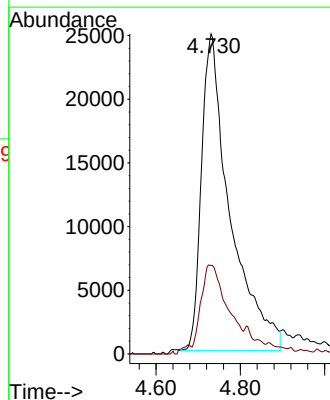
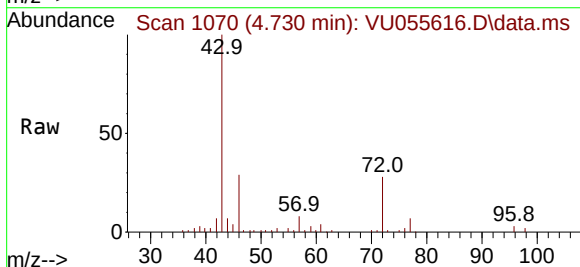
Acq: 02 Oct 2023 19:53

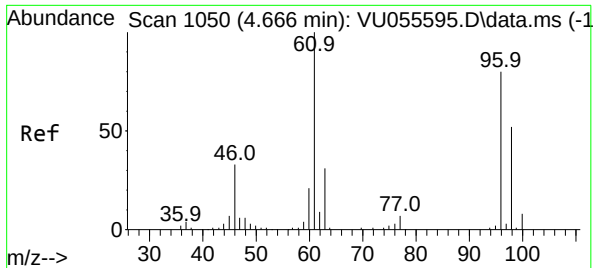
Tgt Ion: 43 Resp: 117093

Ion Ratio Lower Upper

43 100

72 23.4 15.1 45.3





#22

cis-1,2-Dichloroethene

Concen: 7.939 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230927)MSD

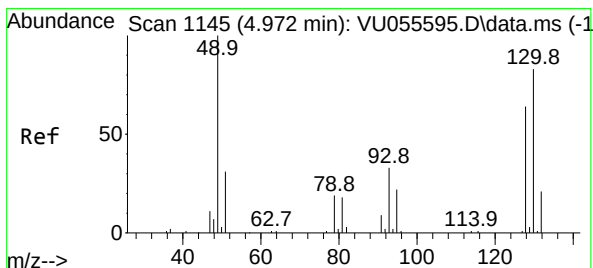
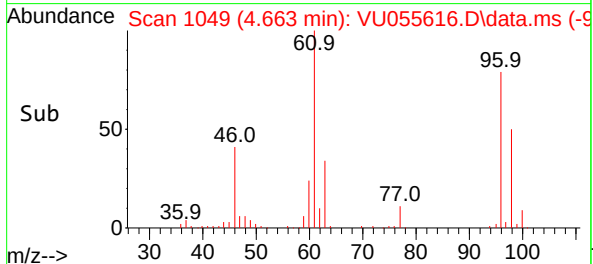
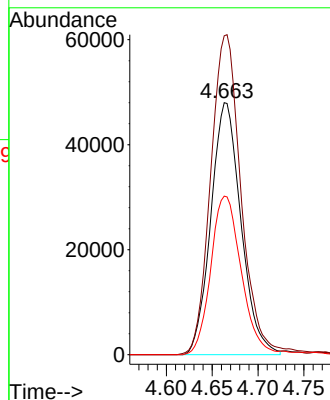
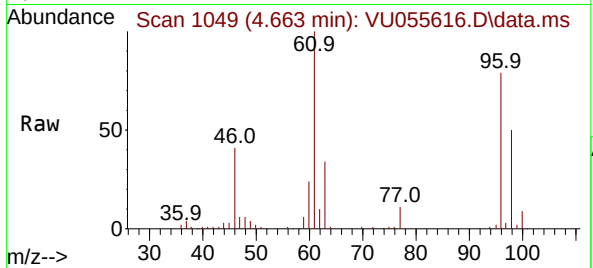
Tgt Ion: 96 Resp: 109535

Ion Ratio Lower Upper

96 100

61 126.5 87.8 163.2

98 62.9 44.4 82.4



#23

Bromochloromethane

Concen: 4.972 ug/L

RT: 4.972 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Tgt Ion:128 Resp: 28992

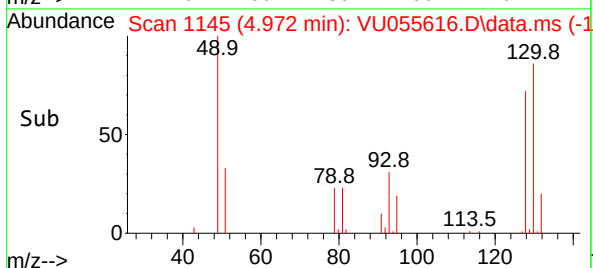
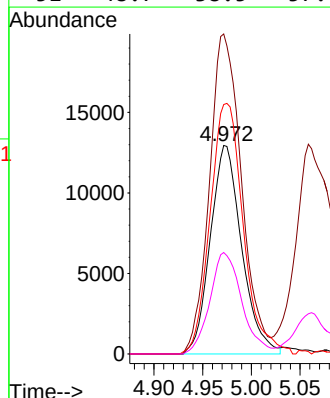
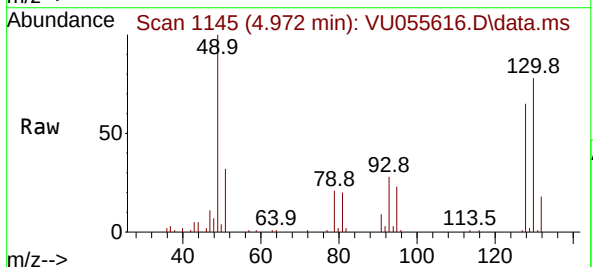
Ion Ratio Lower Upper

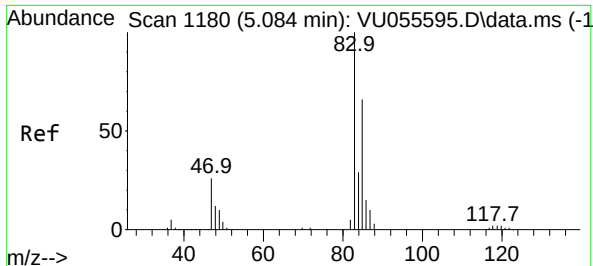
128 100

49 159.7 102.8 191.0

130 119.6 89.9 166.9

51 48.7 38.5 57.7





#25

Chloroform

Concen: 5.392 ug/L

RT: 5.084 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

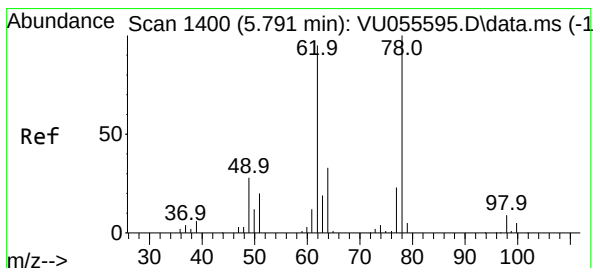
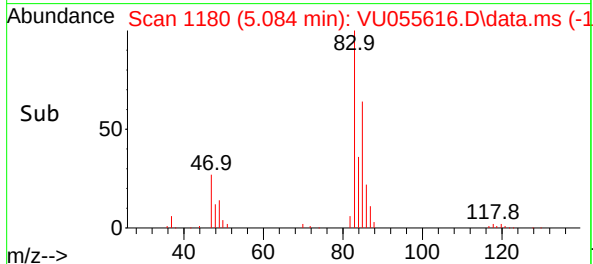
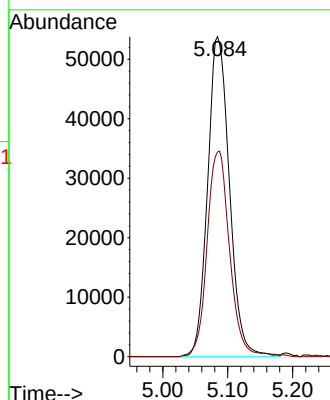
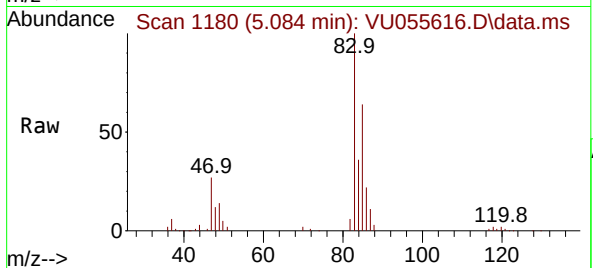
PMW-4(20230927)MSD

Tgt Ion: 83 Resp: 125648

Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.5



#27

1,2-Dichloroethane

Concen: 5.458 ug/L

RT: 5.792 min Scan# 1400

Delta R.T. -0.000 min

Lab File: VU055616.D

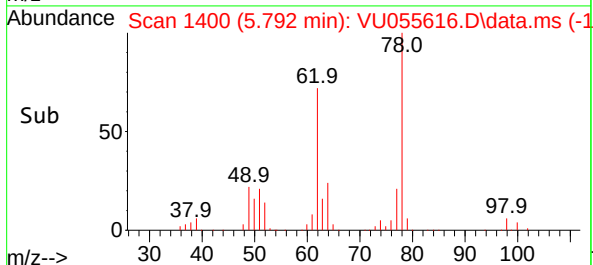
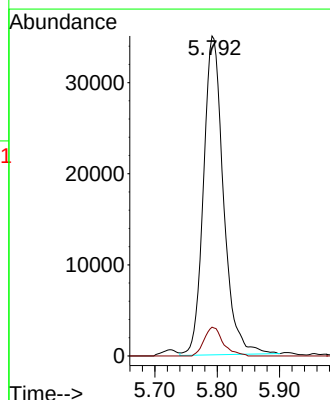
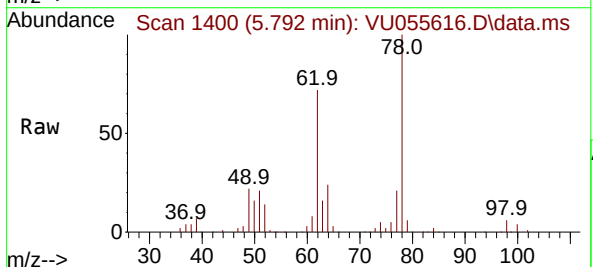
Acq: 02 Oct 2023 19:53

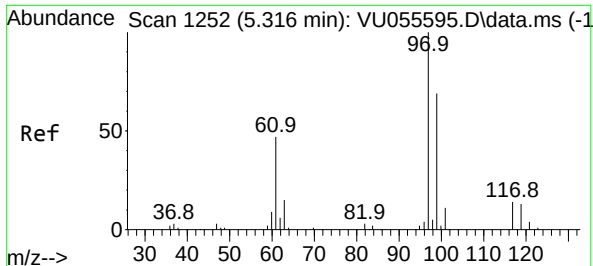
Tgt Ion: 62 Resp: 77995

Ion Ratio Lower Upper

62 100

98 9.0 7.0 10.4





#29

1,1,1-Trichloroethane

Concen: 5.475 ug/L

RT: 5.312 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230927)MSD

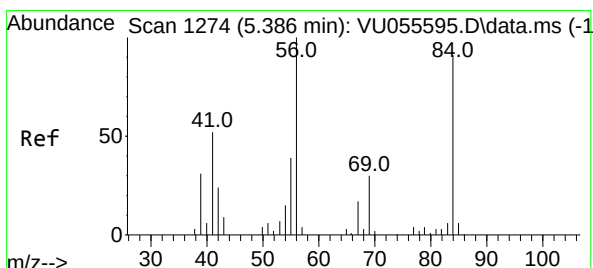
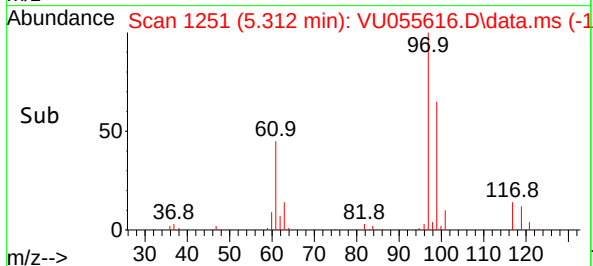
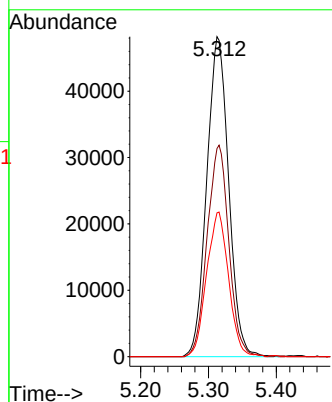
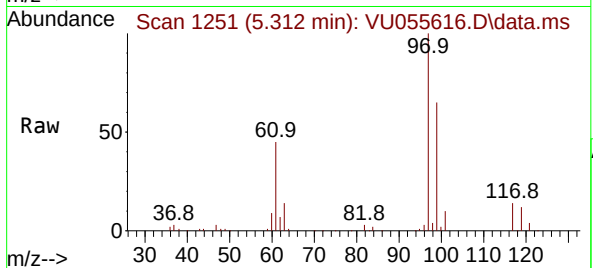
Tgt Ion: 97 Resp: 108215

Ion Ratio Lower Upper

97 100

99 65.4 50.7 76.1

61 45.3 34.6 51.8



#30

Cyclohexane

Concen: 5.168 ug/L

RT: 5.386 min Scan# 1274

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

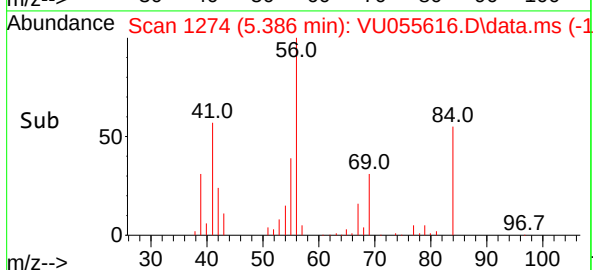
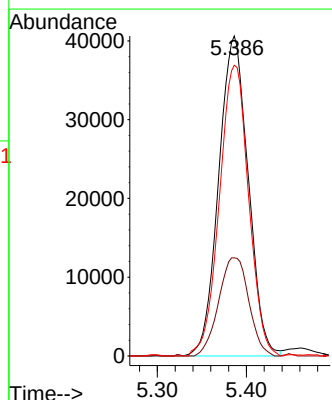
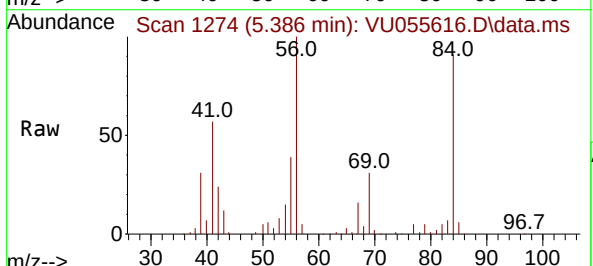
Tgt Ion: 56 Resp: 93497

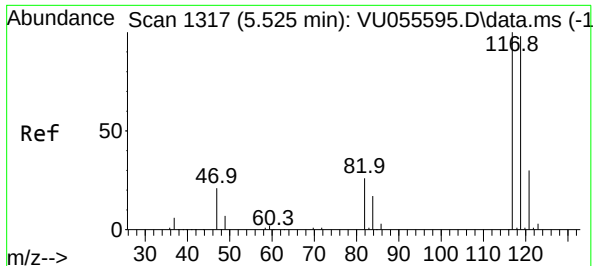
Ion Ratio Lower Upper

56 100

69 31.3 26.5 39.7

84 89.8 72.6 108.8

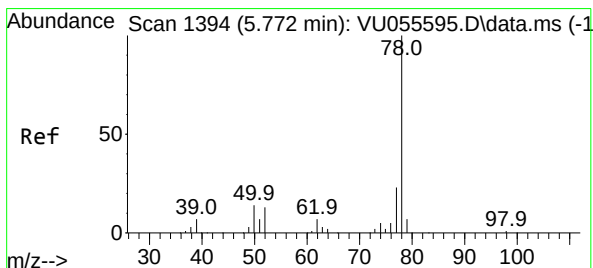
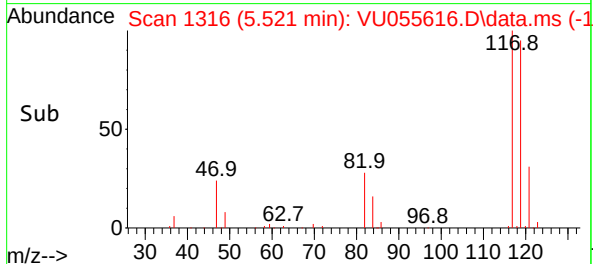
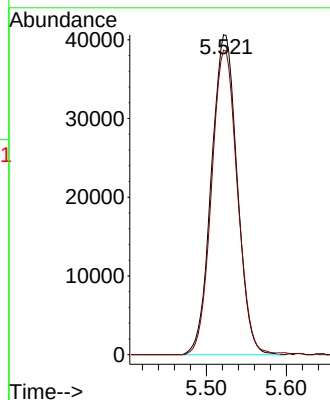
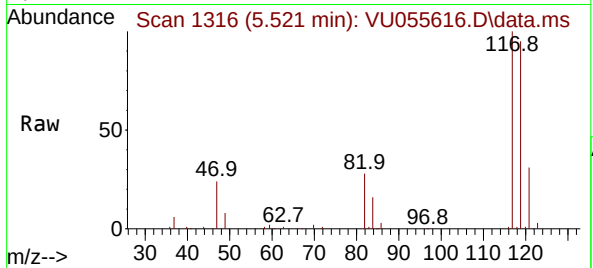




#31
Carbon tetrachloride
Concen: 5.366 ug/L
RT: 5.521 min Scan# 111
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

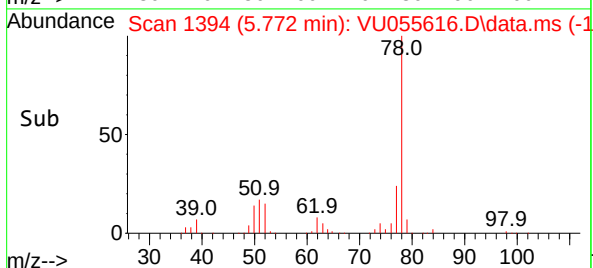
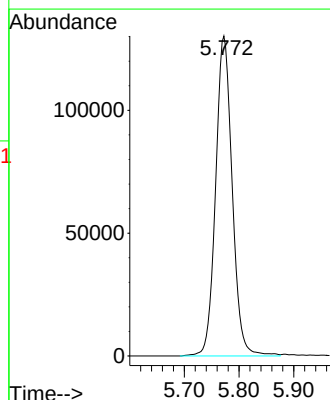
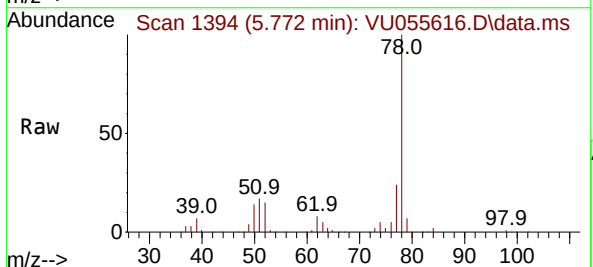
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

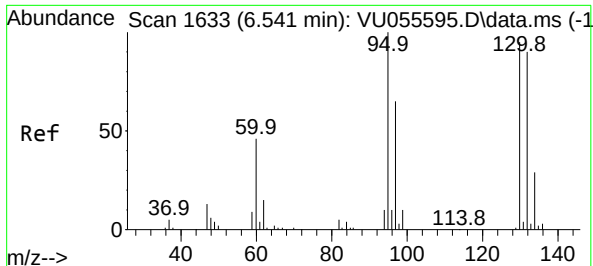
Tgt Ion:117 Resp: 90904
Ion Ratio Lower Upper
117 100
119 95.3 75.2 112.8



#33
Benzene
Concen: 5.503 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion: 78 Resp: 274589

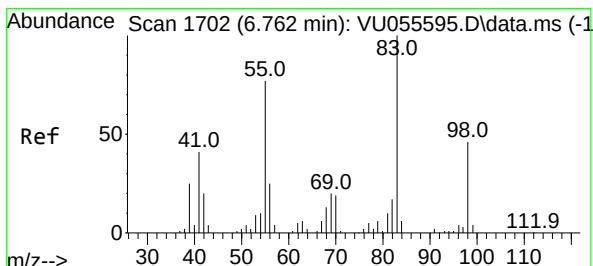
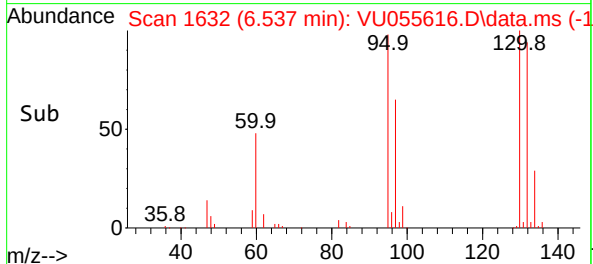
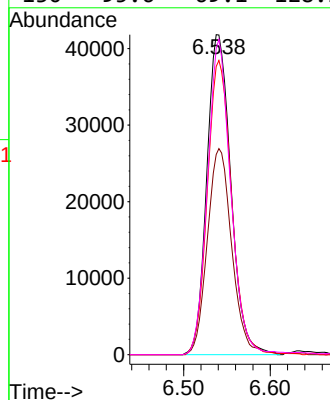
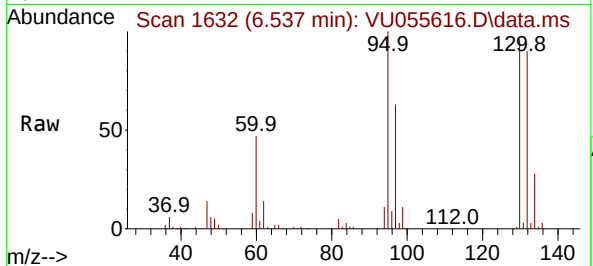




#34
Trichloroethene
Concen: 5.727 ug/L
RT: 6.537 min Scan# 1
Delta R.T. -0.004 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

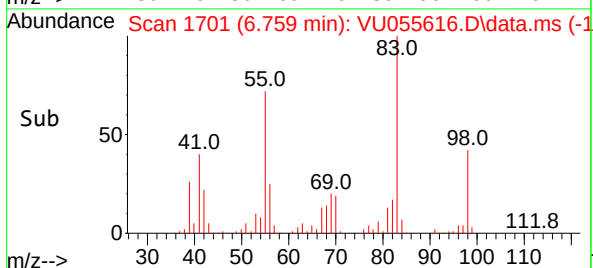
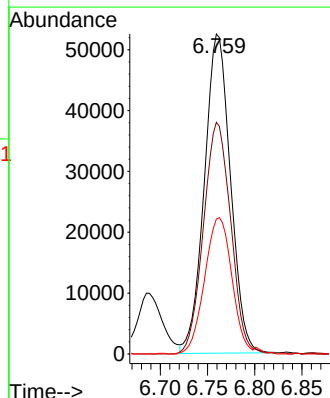
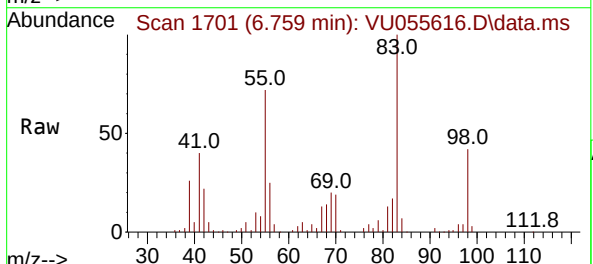
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

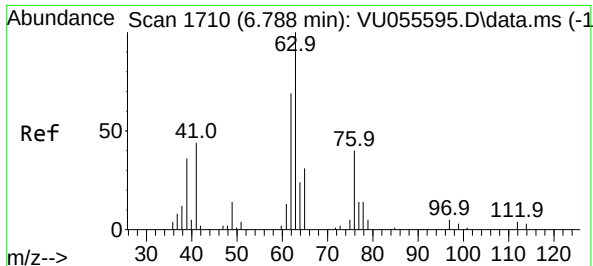
Tgt Ion: 95	Resp: 80845
Ion Ratio	Lower Upper
95	100
97	62.5 45.4 84.2
132	90.1 65.2 121.2
130	95.6 69.1 128.3



#35
Methylcyclohexane
Concen: 4.950 ug/L
RT: 6.759 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion: 83	Resp: 100653
Ion Ratio	Lower Upper
83	100
55	76.0 59.1 88.7
98	44.6 36.3 54.5





#37

1,2-Dichloropropane

Concen: 5.337 ug/L

RT: 6.785 min Scan# 1

Delta R.T. -0.004 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

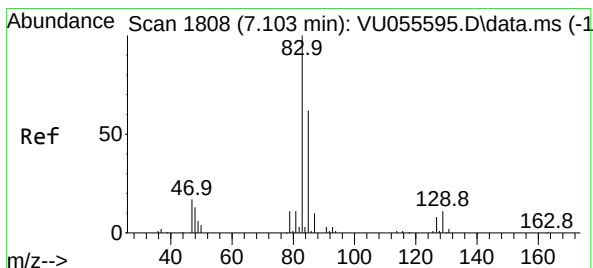
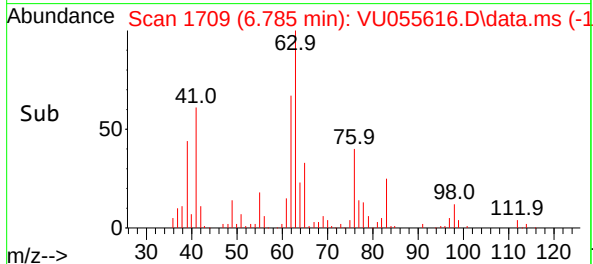
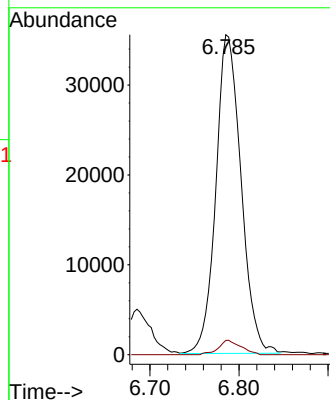
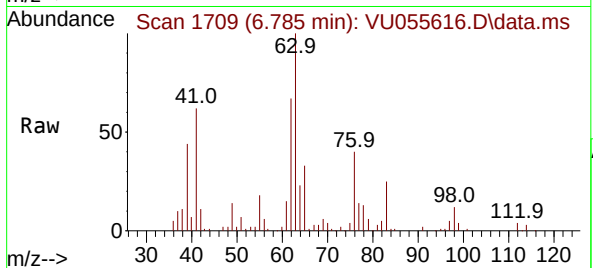
PMW-4(20230927)MSD

Tgt Ion: 63 Resp: 69650

Ion Ratio Lower Upper

63 100

112 4.1 3.0 4.6



#38

Bromodichloromethane

Concen: 5.726 ug/L

RT: 7.103 min Scan# 1808

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

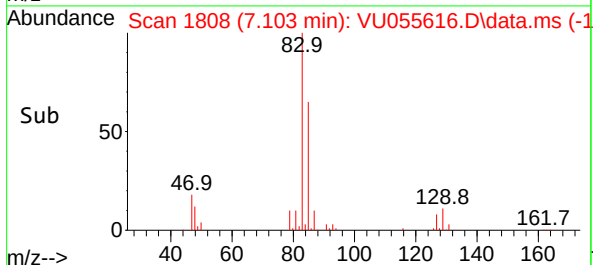
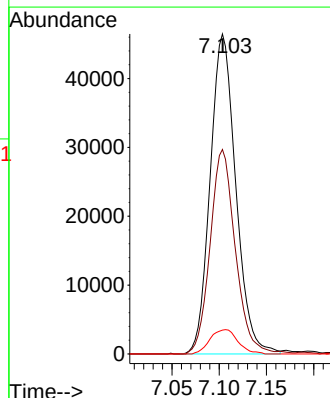
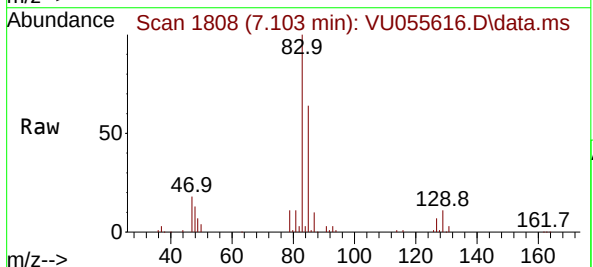
Tgt Ion: 83 Resp: 87572

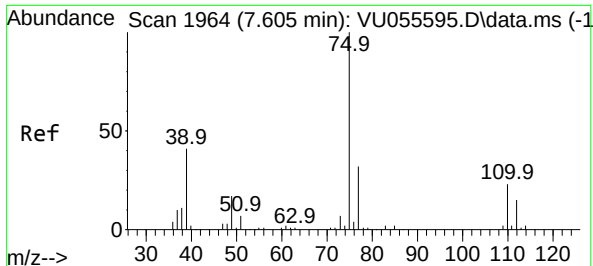
Ion Ratio Lower Upper

83 100

85 63.9 46.8 86.8

127 7.4 7.2 10.8





#39

cis-1,3-Dichloropropene

Concen: 5.446 ug/L

RT: 7.605 min Scan# 1964

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

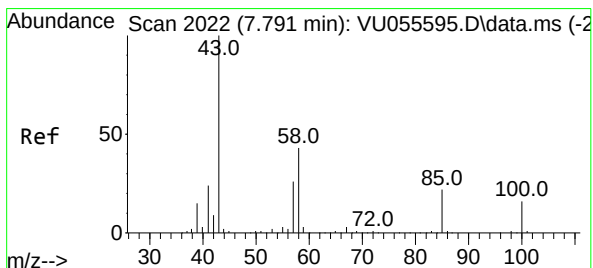
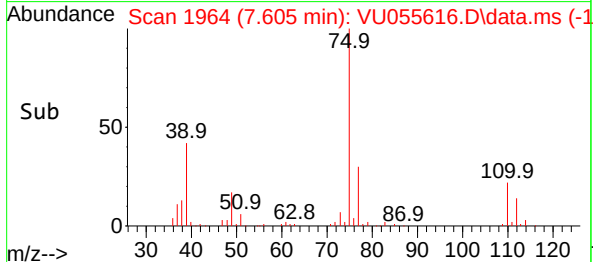
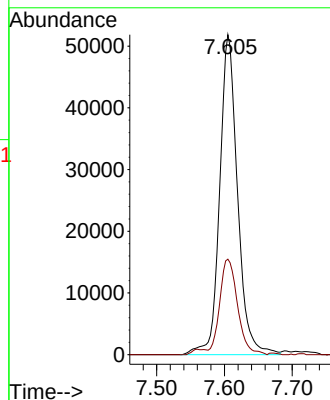
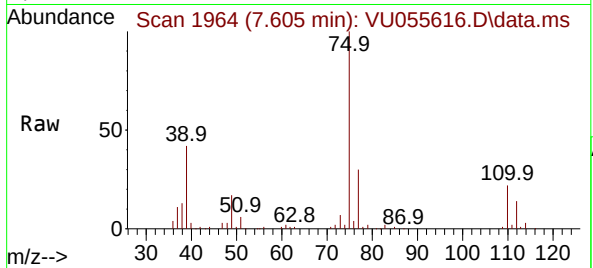
PMW-4(20230927)MSD

Tgt Ion: 75 Resp: 94857

Ion Ratio Lower Upper

75 100

77 29.9 21.6 40.2



#40

4-Methyl-2-pentanone

Concen: 54.097 ug/L

RT: 7.791 min Scan# 2022

Delta R.T. 0.003 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

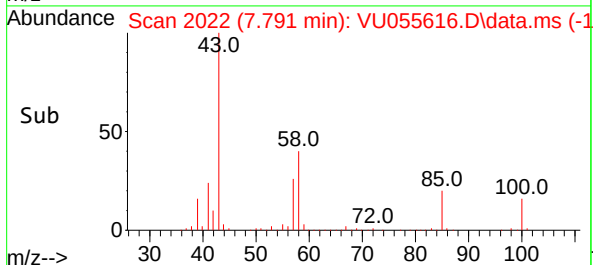
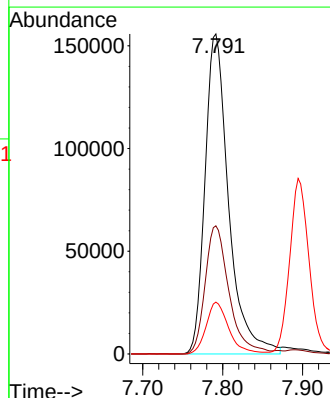
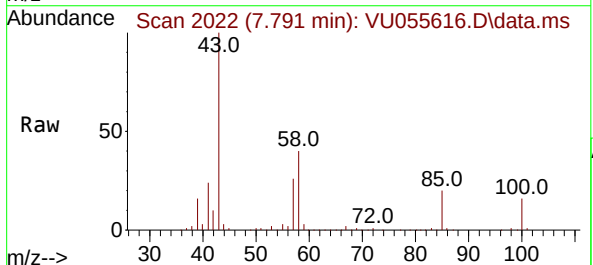
Tgt Ion: 43 Resp: 320248

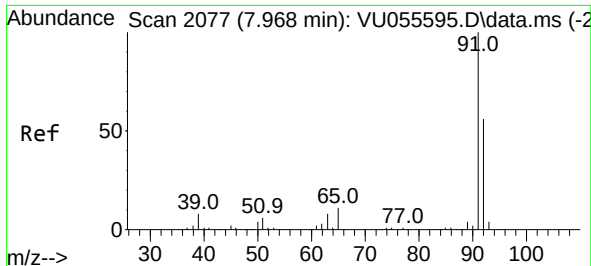
Ion Ratio Lower Upper

43 100

58 40.6 34.2 51.4

100 15.6 13.4 20.0





#42

Toluene

Concen: 5.522 ug/L

RT: 7.968 min Scan# 2077

Delta R.T. 0.003 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

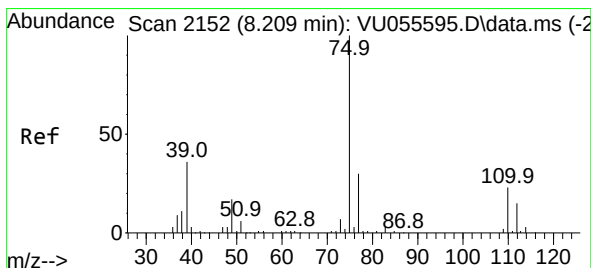
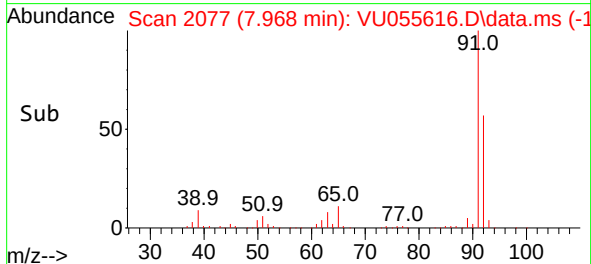
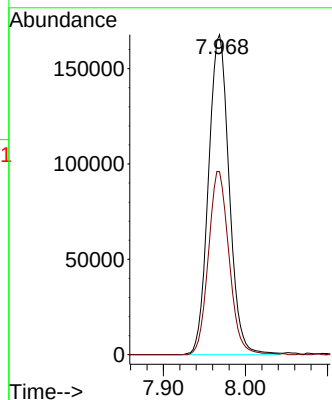
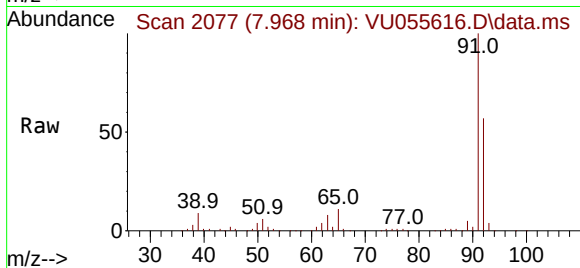
PMW-4(20230927)MSD

Tgt Ion: 91 Resp: 293944

Ion Ratio Lower Upper

91 100

92 57.2 40.3 74.8



#44

trans-1,3-Dichloropropene

Concen: 5.544 ug/L

RT: 8.209 min Scan# 2152

Delta R.T. 0.003 min

Lab File: VU055616.D

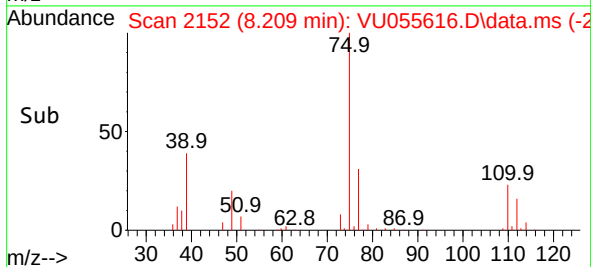
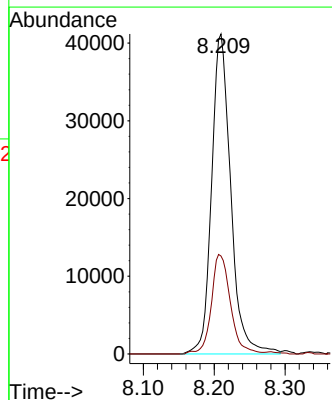
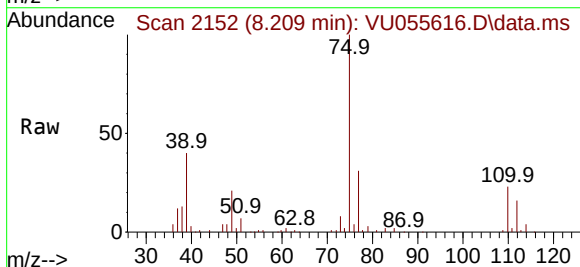
Acq: 02 Oct 2023 19:53

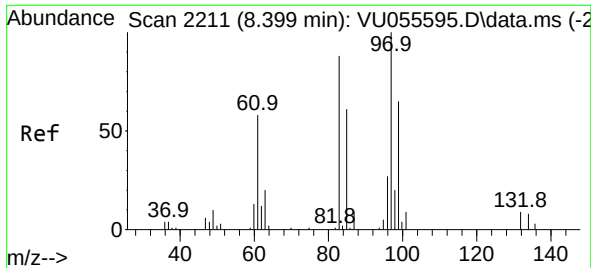
Tgt Ion: 75 Resp: 77259

Ion Ratio Lower Upper

75 100

77 30.6 21.8 40.4

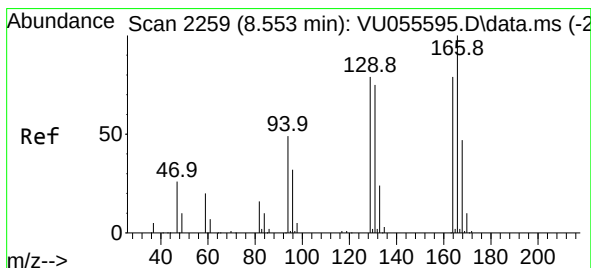
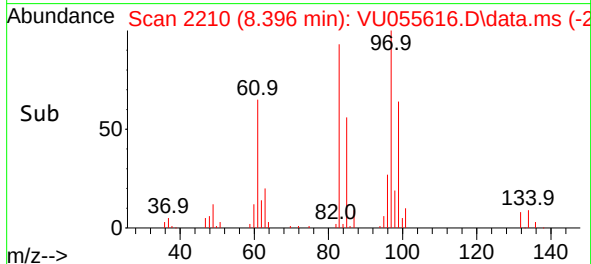
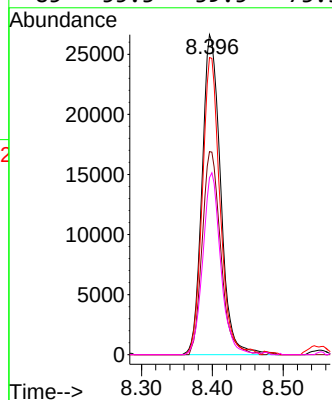
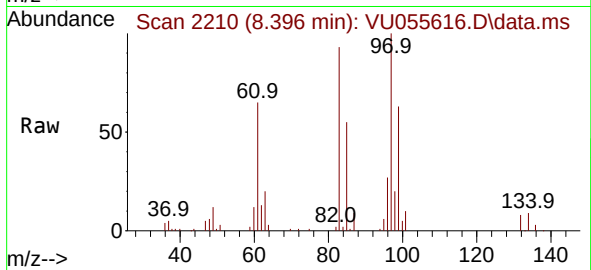




#45
1,1,2-Trichloroethane
Concen: 5.292 ug/L
RT: 8.396 min Scan# 211
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

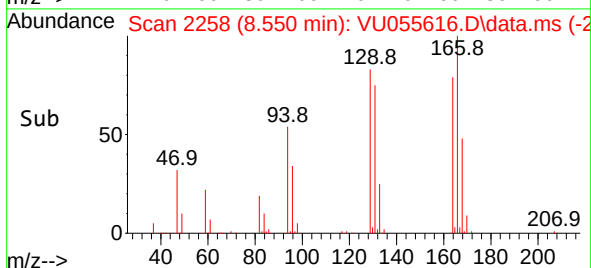
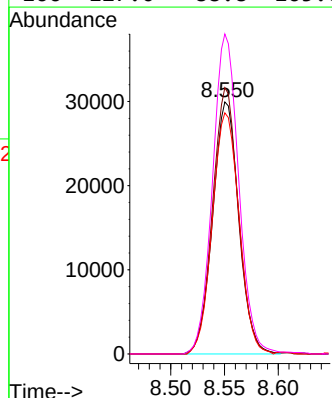
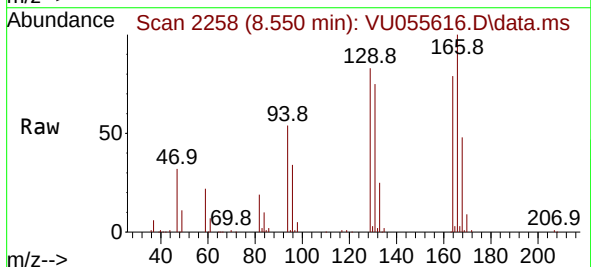
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

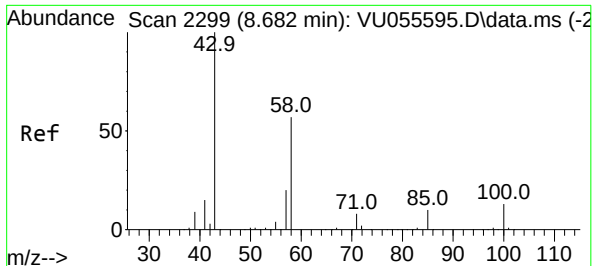
Tgt Ion:	97	Resp:	48427
Ion	Ratio	Lower	Upper
97	100		
99	63.5	44.1	81.9
83	92.9	61.5	114.1
85	55.3	39.5	73.3



#47
Tetrachloroethene
Concen: 5.025 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion:	164	Resp:	50876
Ion	Ratio	Lower	Upper
164	100		
129	105.7	67.4	125.2
131	95.7	66.4	123.2
166	127.0	88.8	165.0

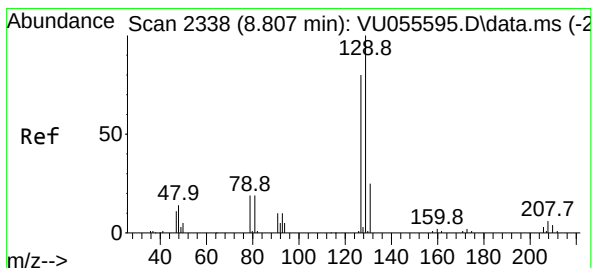
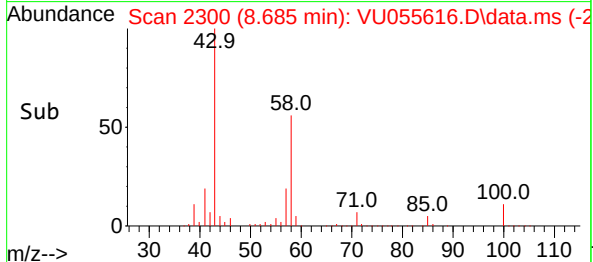
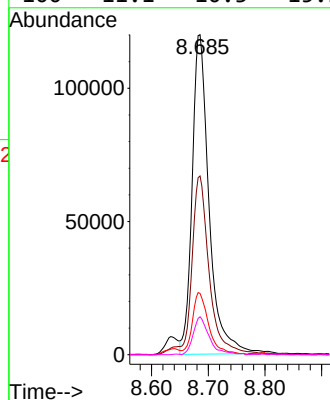
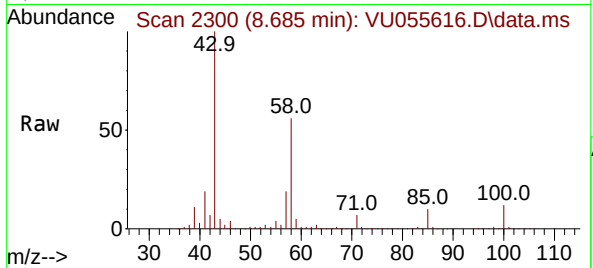




#48
2-Hexanone
Concen: 54.364 ug/L
RT: 8.685 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

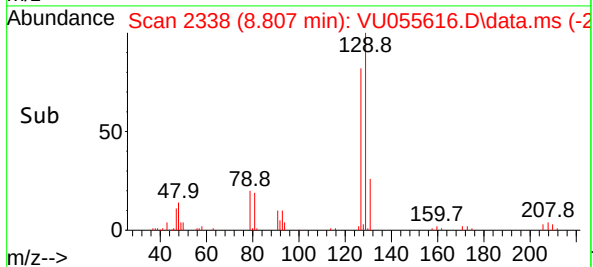
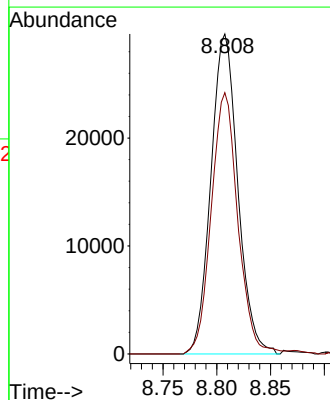
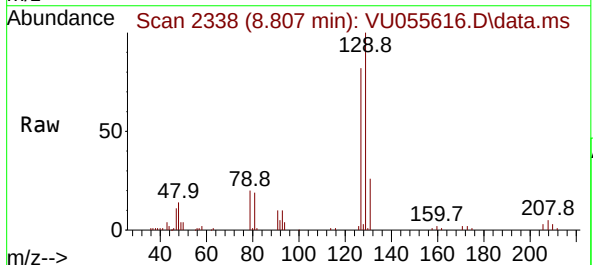
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

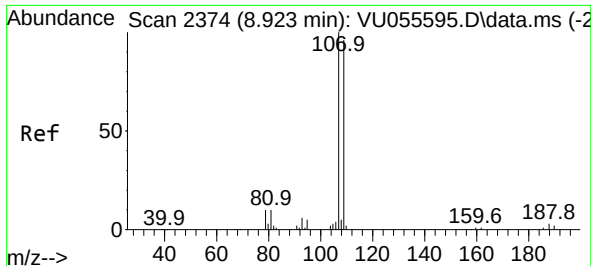
Tgt Ion:	43	Resp:	249424
Ion	Ratio	Lower	Upper
43	100		
58	58.1	48.5	72.7
57	18.9	17.0	25.4
100	11.1	10.3	15.5



#49
Dibromochloromethane
Concen: 5.387 ug/L
RT: 8.807 min Scan# 2338
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion:	129	Resp:	51675
Ion	Ratio	Lower	Upper
129	100		
127	81.7	56.8	105.6

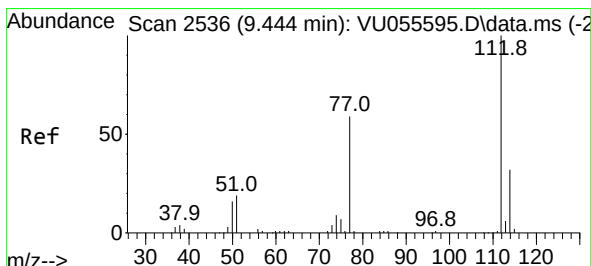
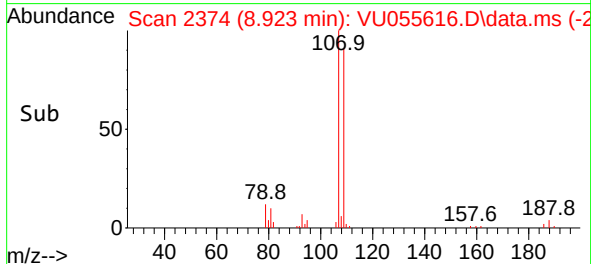
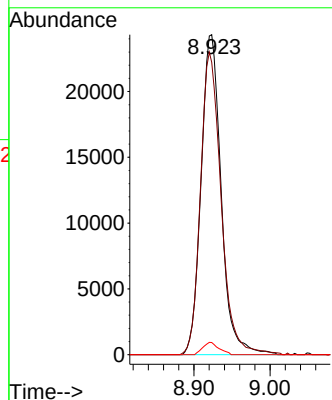
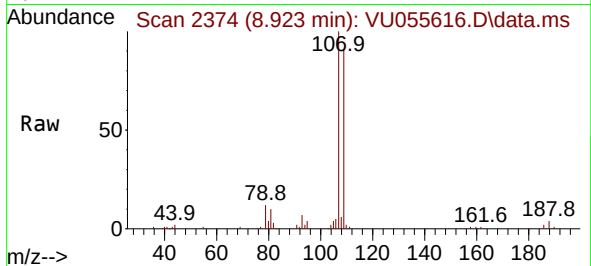




#50
1,2-Dibromoethane
Concen: 5.250 ug/L
RT: 8.923 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

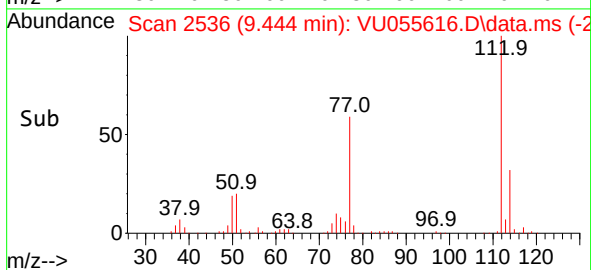
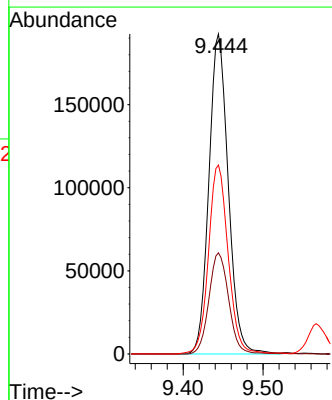
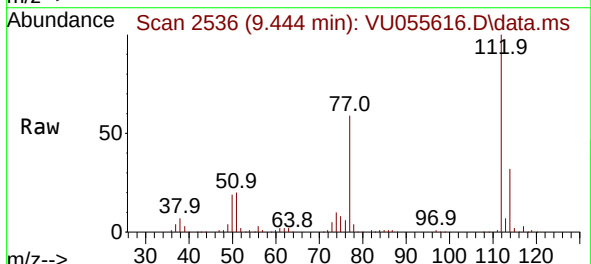
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

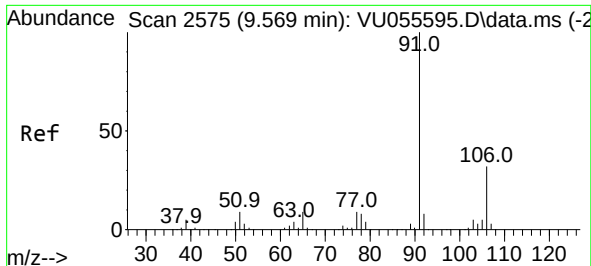
Tgt Ion:107 Resp: 44580
Ion Ratio Lower Upper
107 100
109 91.3 66.1 122.8
188 3.8 3.2 4.8



#51
Chlorobenzene
Concen: 9.506 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion:112 Resp: 324088
Ion Ratio Lower Upper
112 100
114 31.6 22.0 40.8
77 59.1 46.9 70.3

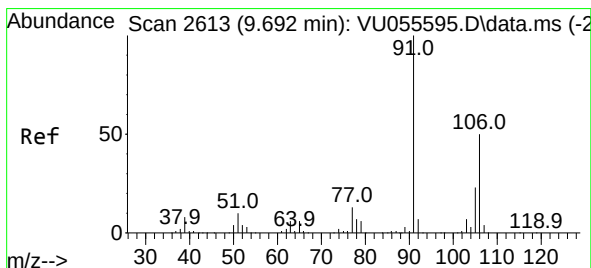
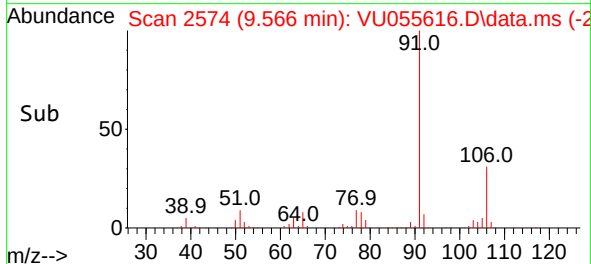
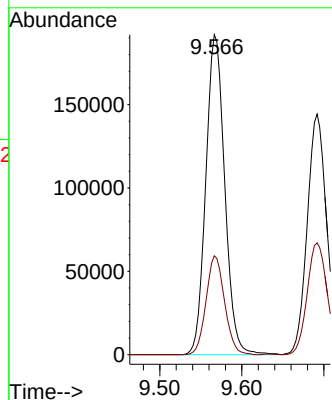
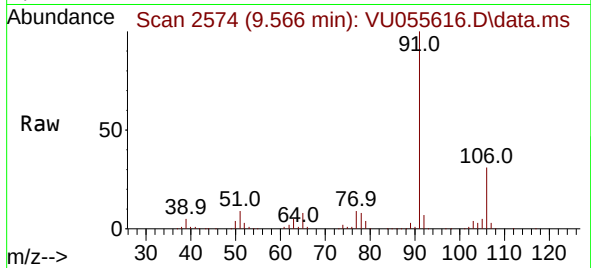




#52
Ethylbenzene
Concen: 5.386 ug/L
RT: 9.566 min Scan# 2575
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

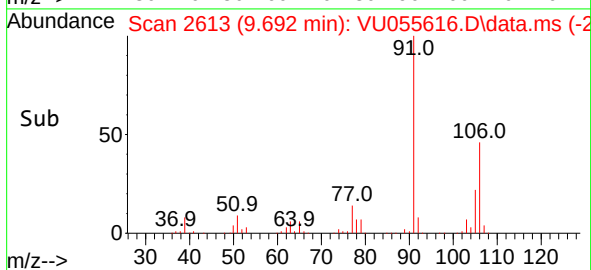
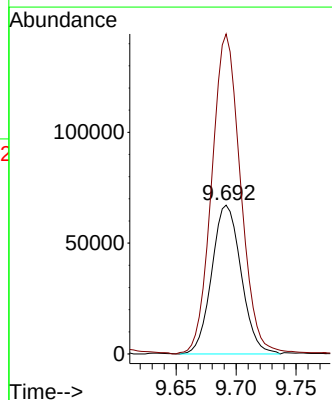
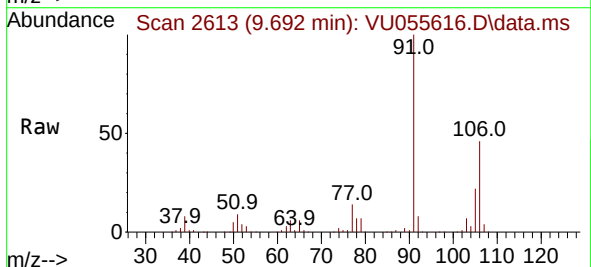
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

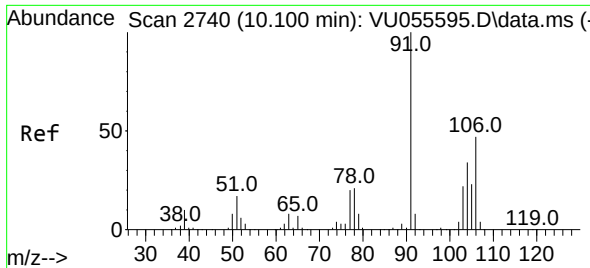
Tgt Ion: 91 Resp: 307320
Ion Ratio Lower Upper
91 100
106 30.9 22.4 41.6



#53
m,p-Xylene
Concen: 5.344 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion:106 Resp: 114272
Ion Ratio Lower Upper
106 100
91 215.1 144.8 269.0

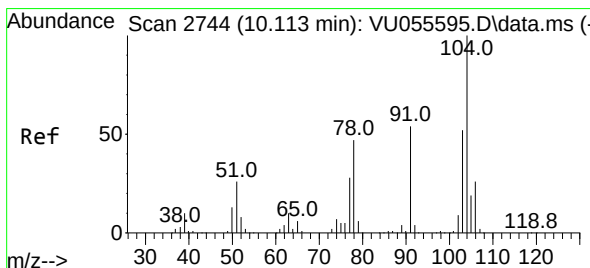
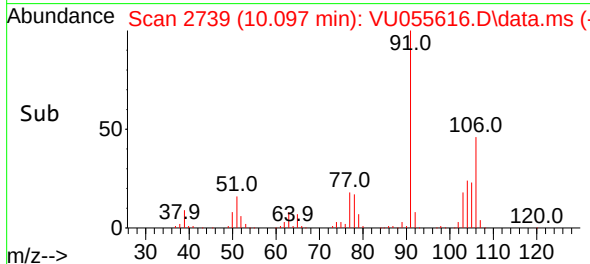
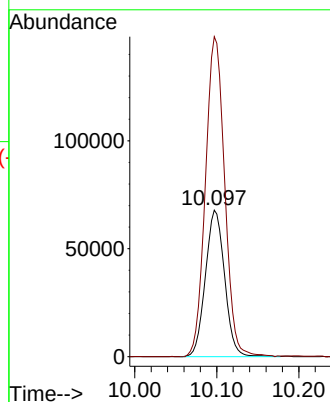
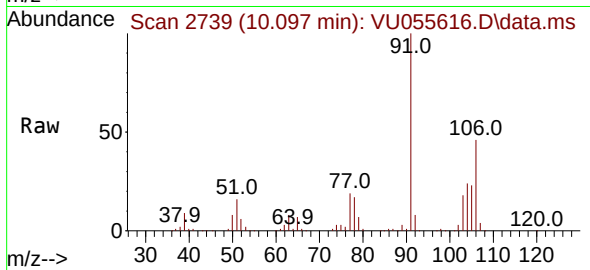




#54
o-Xylene
Concen: 5.306 ug/L
RT: 10.097 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

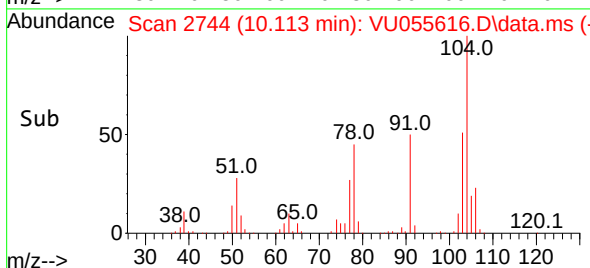
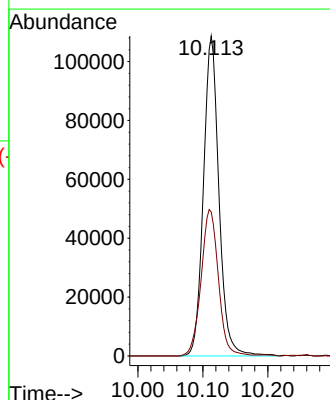
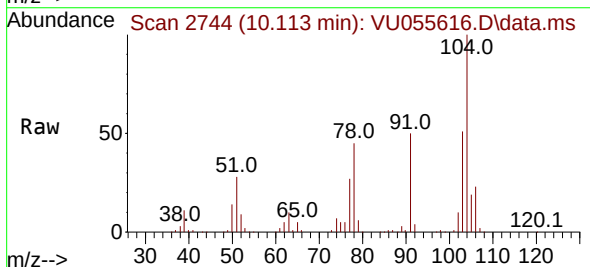
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

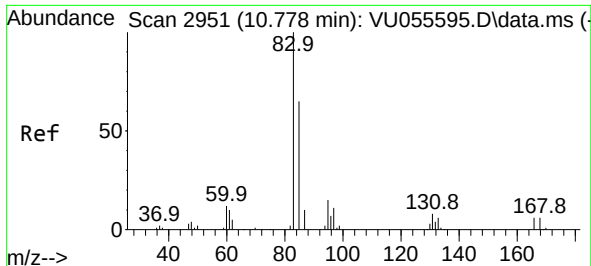
Tgt Ion:106 Resp: 110326
Ion Ratio Lower Upper
106 100
91 218.3 157.6 292.8



#55
Styrene
Concen: 5.387 ug/L
RT: 10.113 min Scan# 2744
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion:104 Resp: 181092
Ion Ratio Lower Upper
104 100
78 45.0 31.2 58.0





#57

1,1,2,2-Tetrachloroethane

Concen: 5.594 ug/L

RT: 10.778 min Scan# 2951

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230927)MSD

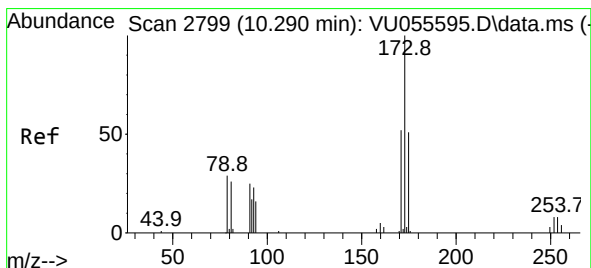
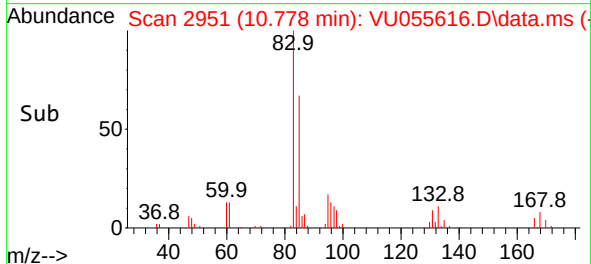
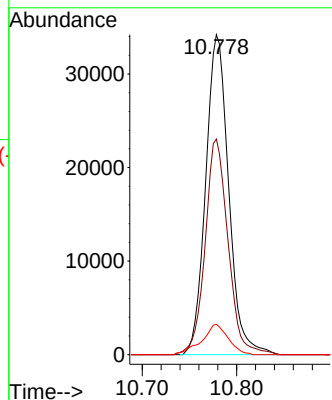
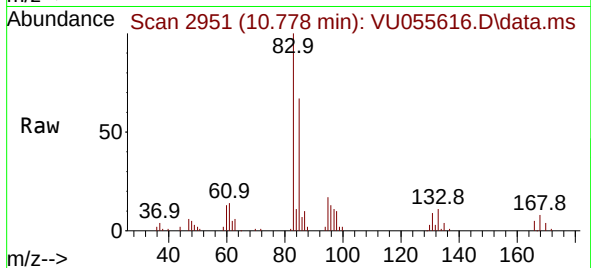
Tgt Ion: 83 Resp: 57786

Ion Ratio Lower Upper

83 100

85 67.4 44.4 82.5

131 9.5 7.4 11.2



#59

Bromoform

Concen: 5.104 ug/L

RT: 10.287 min Scan# 2798

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

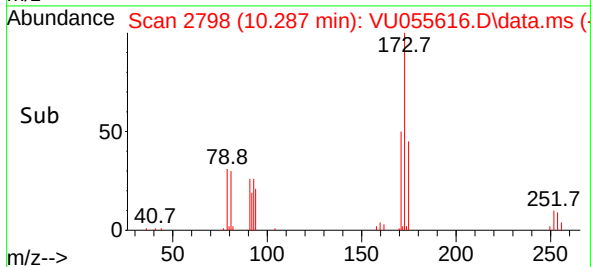
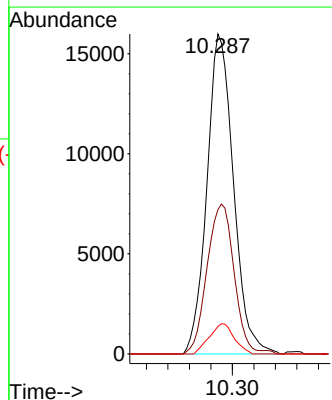
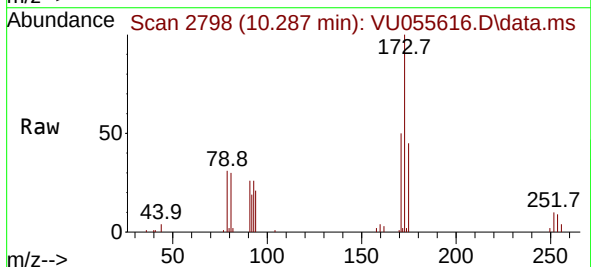
Tgt Ion:173 Resp: 27438

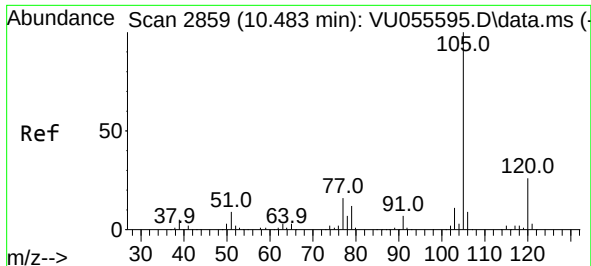
Ion Ratio Lower Upper

173 100

175 47.8 39.4 59.2

254 8.8 7.3 10.9

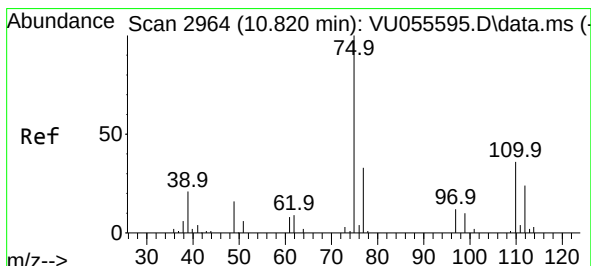
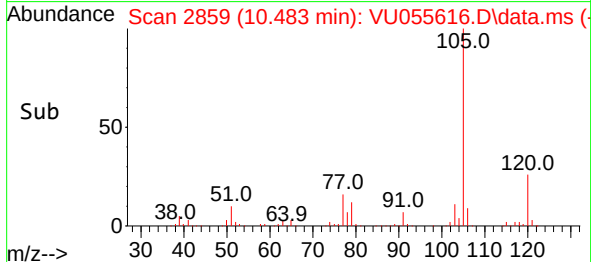
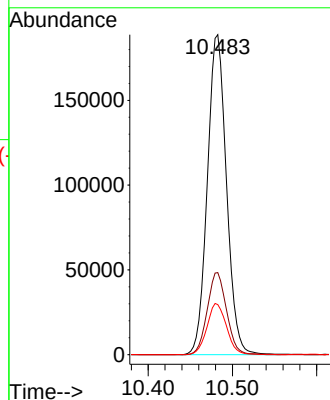
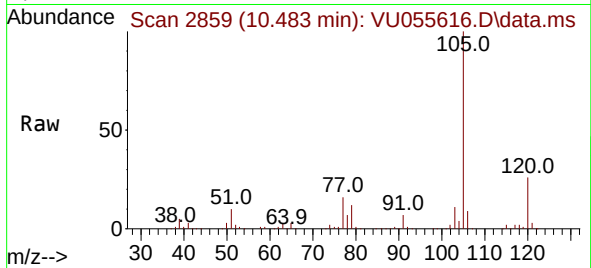




#60
Isopropylbenzene
Concen: 5.157 ug/L
RT: 10.483 min Scan# 2859
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

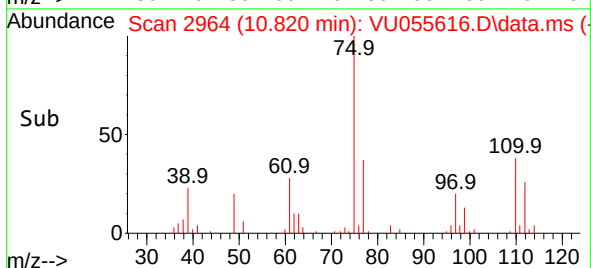
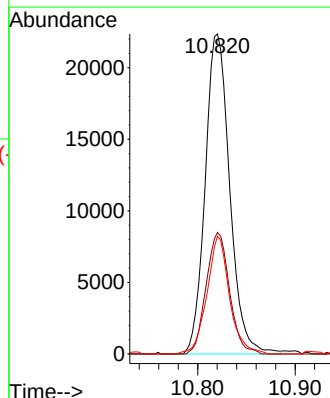
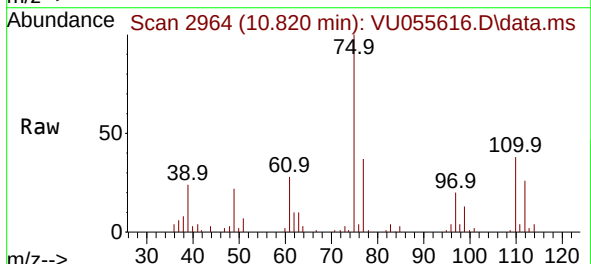
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

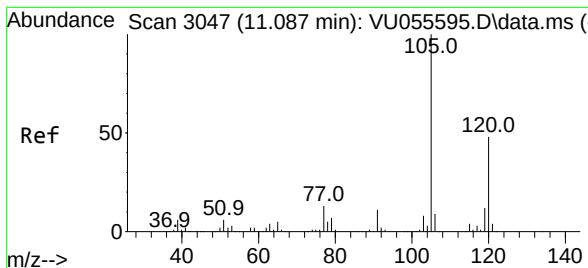
Tgt Ion:105 Resp: 298110
Ion Ratio Lower Upper
105 100
120 25.9 20.8 31.2
77 16.4 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 4.997 ug/L
RT: 10.820 min Scan# 2964
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion: 75 Resp: 39124
Ion Ratio Lower Upper
75 100
110 36.0 30.6 45.8
77 33.9 26.7 40.1





#62

1,3,5-Trimethylbenzene

Concen: 4.956 ug/L

RT: 11.087 min Scan# 3047

Delta R.T. 0.003 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

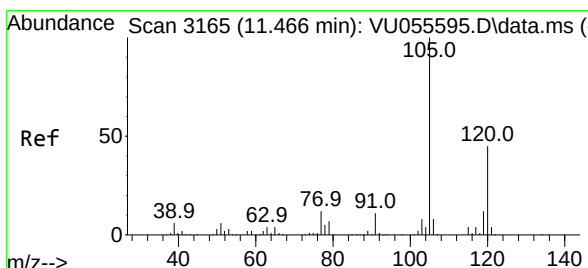
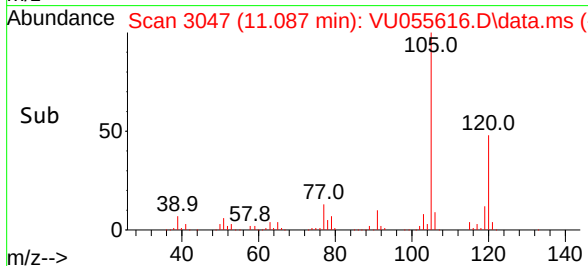
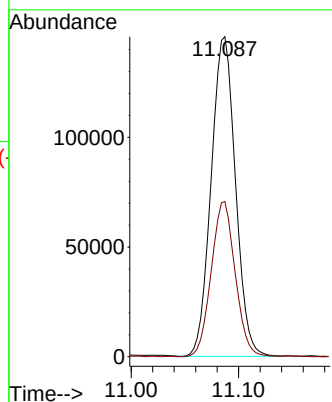
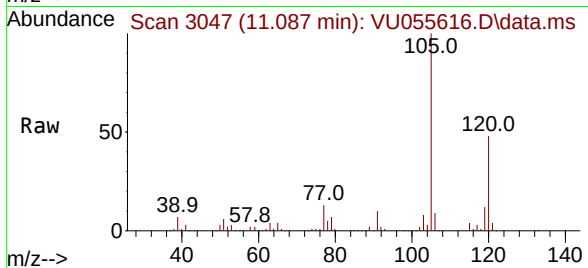
PMW-4(20230927)MSD

Tgt Ion:105 Resp: 229100

Ion Ratio Lower Upper

105 100

120 47.8 38.1 57.1



#63

1,2,4-Trimethylbenzene

Concen: 5.021 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU055616.D

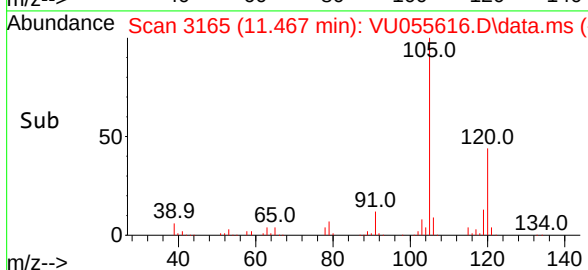
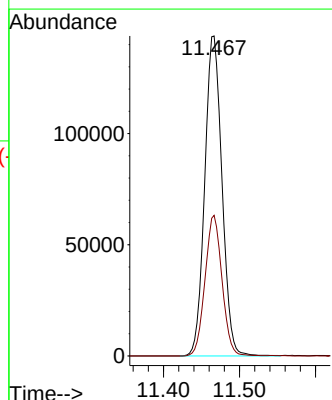
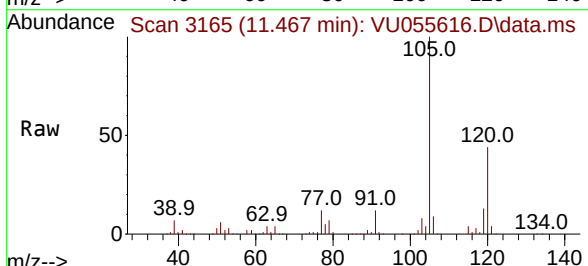
Acq: 02 Oct 2023 19:53

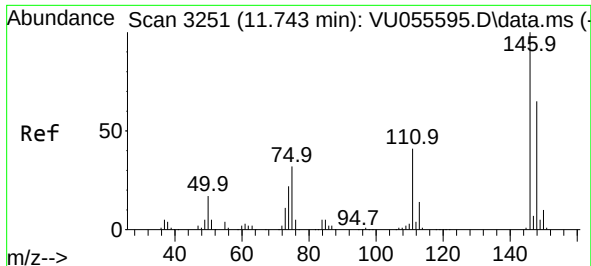
Tgt Ion:105 Resp: 227206

Ion Ratio Lower Upper

105 100

120 43.2 34.9 52.3

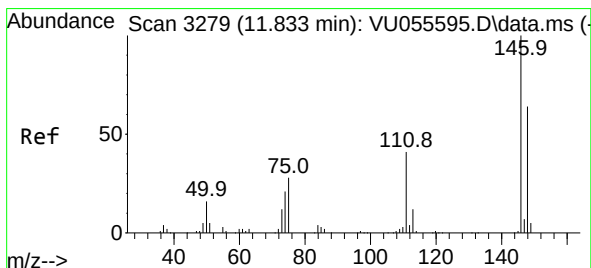
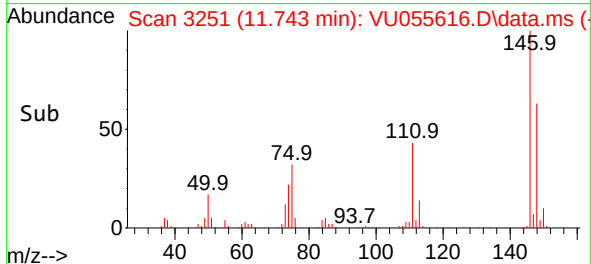
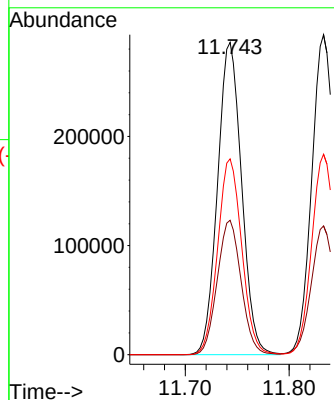
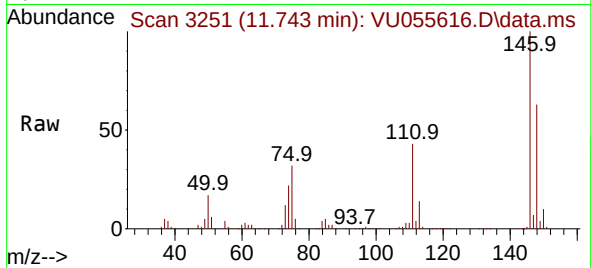




#64
1,3-Dichlorobenzene
Concen: 16.642 ug/L
RT: 11.743 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

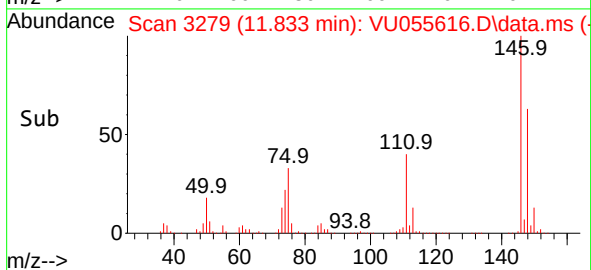
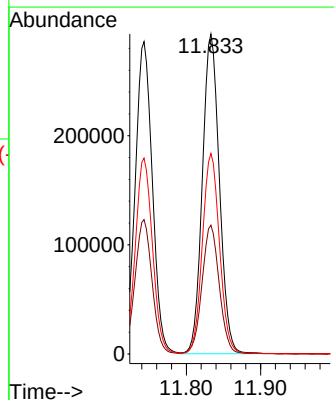
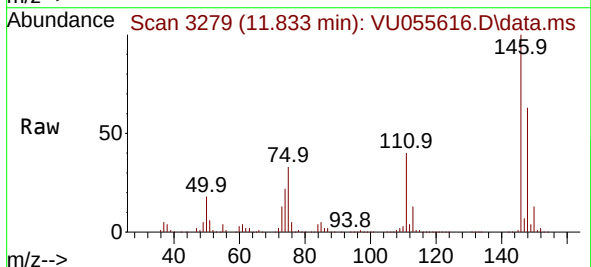
Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

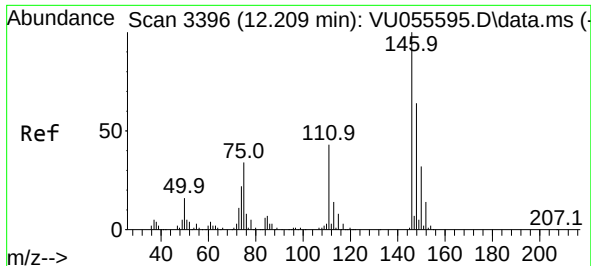
Tgt Ion:146 Resp: 460583
Ion Ratio Lower Upper
146 100
111 43.0 28.8 53.6
148 62.7 44.6 82.8



#65
1,4-Dichlorobenzene
Concen: 16.845 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion:146 Resp: 465952
Ion Ratio Lower Upper
146 100
111 40.3 29.0 53.8
148 62.6 45.4 84.4





#67

1,2-Dichlorobenzene

Concen: 6.209 ug/L

RT: 12.209 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230927)MSD

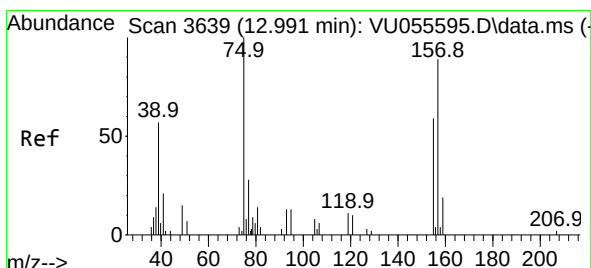
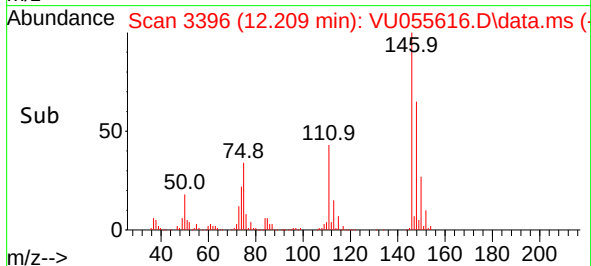
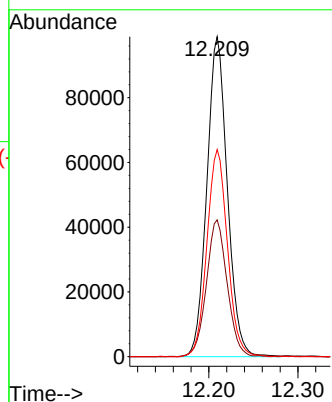
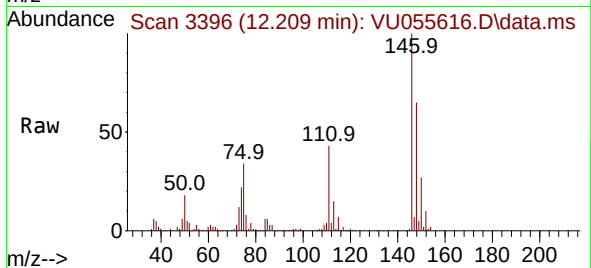
Tgt Ion:146 Resp: 157552

Ion Ratio Lower Upper

146 100

111 42.7 34.6 52.0

148 64.7 51.8 77.8



#68

1,2-Dibromo-3-chloropropane

Concen: 5.570 ug/L

RT: 12.994 min Scan# 3640

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

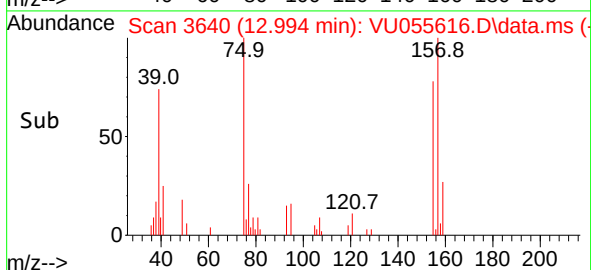
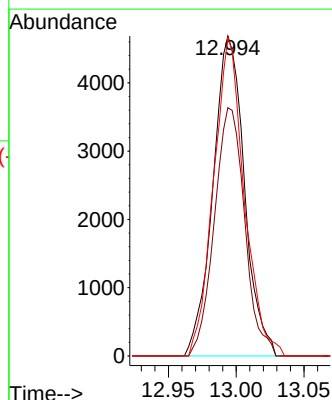
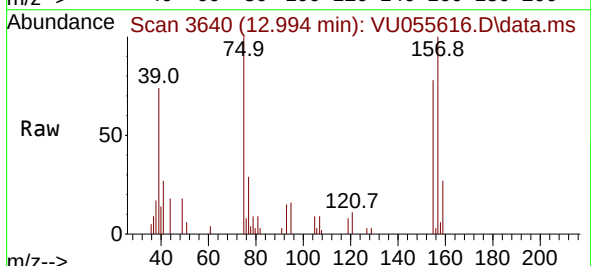
Tgt Ion: 75 Resp: 7560

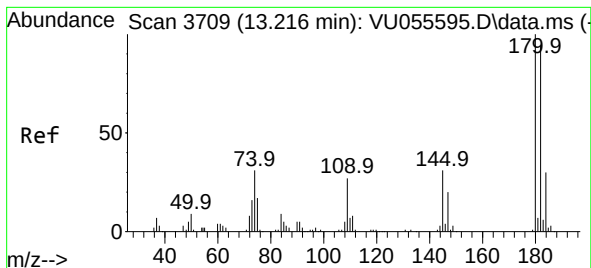
Ion Ratio Lower Upper

75 100

155 77.6 69.2 103.8

157 99.6 81.9 122.9





#69

1,3,5-Trichlorobenzene

Concen: 5.486 ug/L

RT: 13.216 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU055616.D

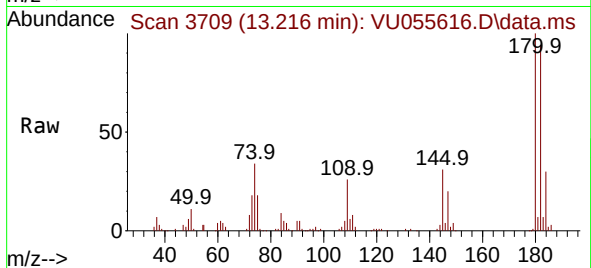
Acq: 02 Oct 2023 19:53

Instrument :

MSVOA_U

ClientSampleId :

PMW-4(20230927)MSD



Tgt Ion:180 Resp: 104556

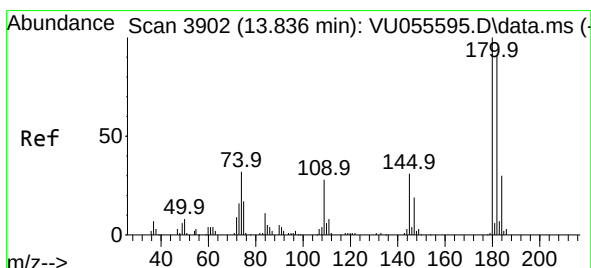
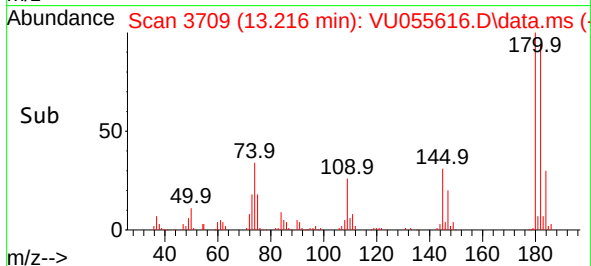
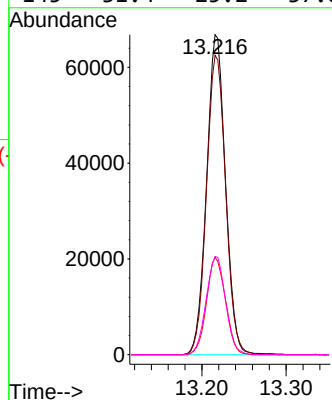
Ion Ratio Lower Upper

180 100

182 94.6 77.1 115.7

184 30.4 24.0 36.0

145 31.4 25.2 37.8



#70

1,2,4-trichlorobenzene

Concen: 26.355 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. -0.000 min

Lab File: VU055616.D

Acq: 02 Oct 2023 19:53

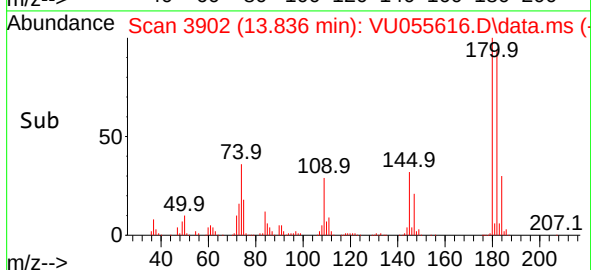
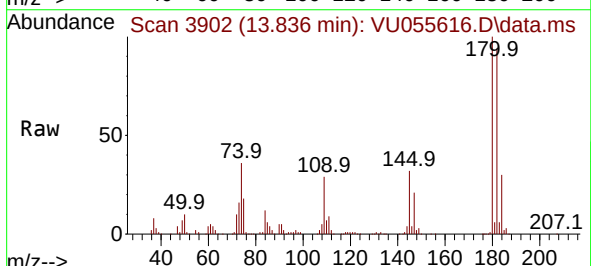
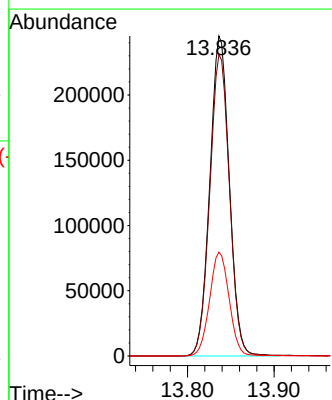
Tgt Ion:180 Resp: 382957

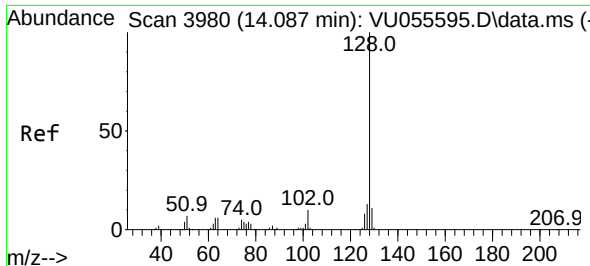
Ion Ratio Lower Upper

180 100

182 95.1 76.4 114.6

145 32.5 25.4 38.0

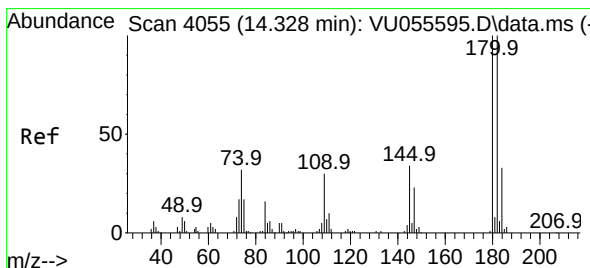
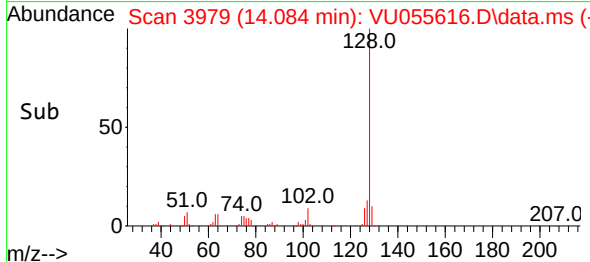
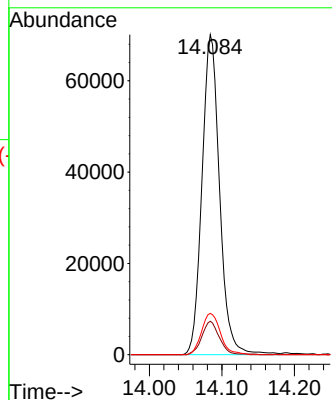
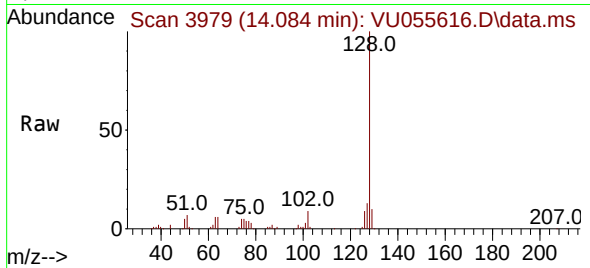




#71
Naphthalene
Concen: 5.617 ug/L
RT: 14.084 min Scan# 3980
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Instrument :
MSVOA_U
ClientSampleId :
PMW-4(20230927)MSD

Tgt Ion:128 Resp: 118159
Ion Ratio Lower Upper
128 100
129 10.3 8.5 12.7
127 13.8 10.2 15.4



#72
1,2,3-Trichlorobenzene
Concen: 5.898 ug/L
RT: 14.325 min Scan# 4054
Delta R.T. -0.000 min
Lab File: VU055616.D
Acq: 02 Oct 2023 19:53

Tgt Ion:180 Resp: 74573
Ion Ratio Lower Upper
180 100
182 91.5 76.2 114.4
145 32.0 26.0 39.0

