

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100124\
 Data File : VU061055.D
 Acq On : 01 Oct 2024 19:51
 Operator : MD/SY
 Sample : P4227-11
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-3(20240927)

Quant Time: Oct 02 02:37:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 02 02:09:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	171984	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	160141	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	75297	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	55101	4.481	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.600%
7) Chloroethane-d5	1.911	69	44512	4.836	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.800%
11) 1,1-Dichloroethene-d2	2.563	65	24378	4.494	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.800%
20) 2-Butanone-d5	4.628	46	150177	50.988	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.980%
24) Chloroform-d	5.055	84	101144	4.667	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
26) 1,2-Dichloroethane-d4	5.695	65	56084	4.883	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.600%
32) Benzene-d6	5.721	84	204649	4.847	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.000%
36) 1,2-Dichloropropane-d6	6.682	67	69671	5.024	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.400%
41) Toluene-d8	7.891	98	187023	4.739	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.800%
43) trans-1,3-Dichloroprop...	8.177	79	27914	4.708	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.200%
46) 2-Hexanone-d5	8.627	63	127282	51.864	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.720%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	51137	5.029	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.600%
66) 1,2-Dichlorobenzene-d4	12.184	152	62074	5.156	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.200%

Target Compounds				Qvalue		
5) Vinyl chloride	1.602	62	32326	2.660	ug/L	99
12) 1,1-Dichloroethene	2.573	96	4642	0.467	ug/L #	1
16) Methylene chloride	3.039	84	1686	0.148	ug/L	84
18) trans-1,2-Dichloroethene	3.351	96	13096	1.203	ug/L	91
19) 1,1-Dichloroethane	3.859	63	495159	23.373	ug/L	99
22) cis-1,2-Dichloroethene	4.656	96	175568	14.480	ug/L	94
27) 1,2-Dichloroethane	5.788	62	78788	5.636	ug/L	96
30) Cyclohexane	5.383	56	4388	0.213	ug/L	91
33) Benzene	5.766	78	110700	2.345	ug/L	100
34) Trichloroethene	6.537	95	28458	2.224	ug/L	95
35) Methylcyclohexane	6.756	83	4554	0.220	ug/L	87
42) Toluene	7.968	91	9200	0.183	ug/L	99
47) Tetrachloroethene	8.547	164	11817	1.419	ug/L	95
51) Chlorobenzene	9.441	112	268439	8.763	ug/L	94
52) Ethylbenzene	9.569	91	8894	0.156	ug/L	98
60) Isopropylbenzene	10.479	105	14152	0.281	ug/L #	85
63) 1,2,4-Trimethylbenzene	11.463	105	10163	0.227	ug/L	98
64) 1,3-Dichlorobenzene	11.740	146	29997	1.390	ug/L	96
65) 1,4-Dichlorobenzene	11.830	146	47317	2.218	ug/L	95

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Oct 02 02:09:38 2024
Response via : Initial Calibration

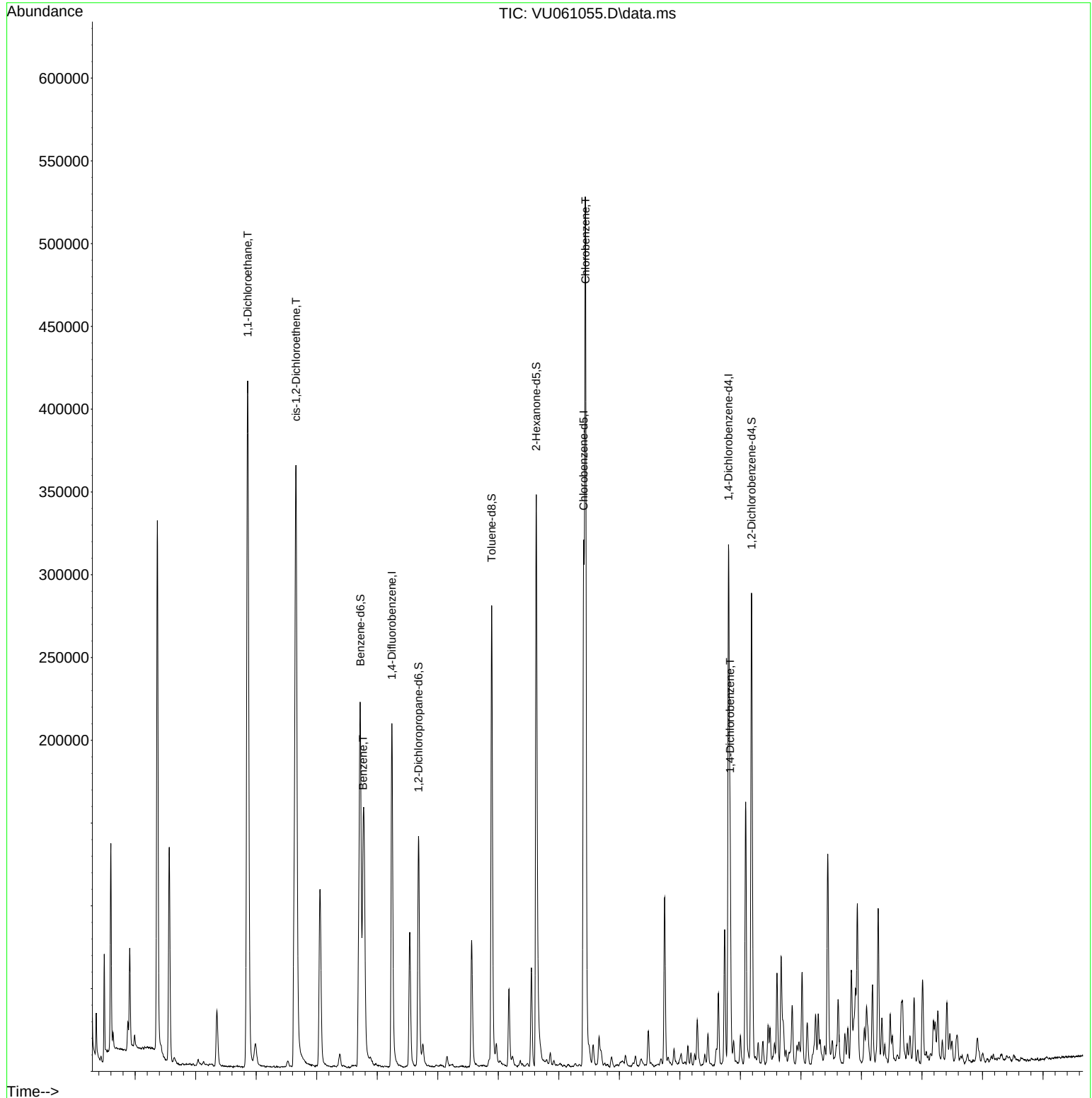
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.206	146	2467	0.124	ug/L	94
70) 1,2,4-trichlorobenzene	13.836	180	7214	0.619	ug/L #	84

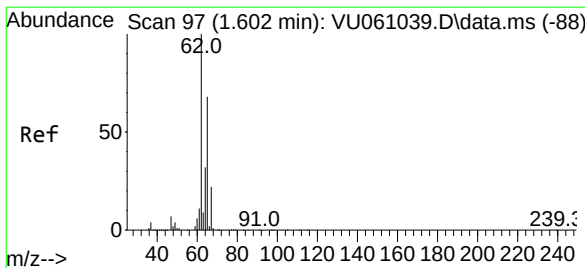
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.660 ug/L

RT: 1.602 min Scan# 97

Delta R.T. -0.000 min

Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

Instrument :

MSVOA_U

ClientSampleId :

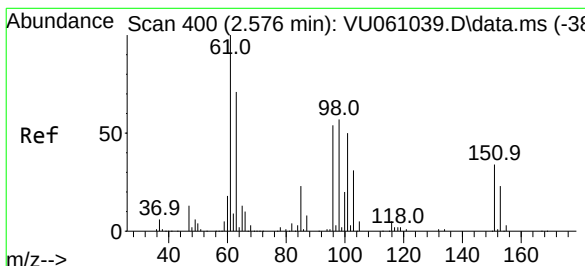
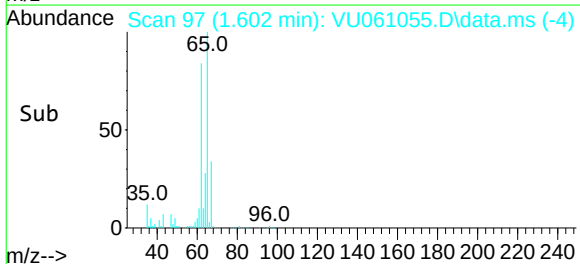
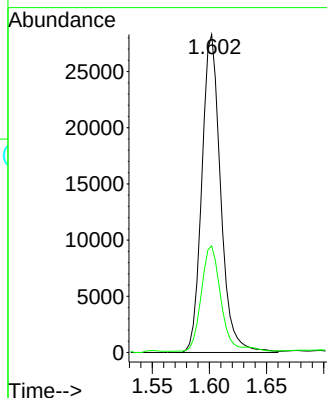
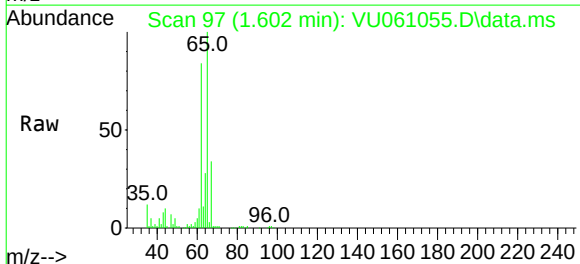
PMW-3(20240927)

Tgt Ion: 62 Resp: 32326

Ion Ratio Lower Upper

62 100

64 33.5 24.0 44.6



#12

1,1-Dichloroethene

Concen: 0.467 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

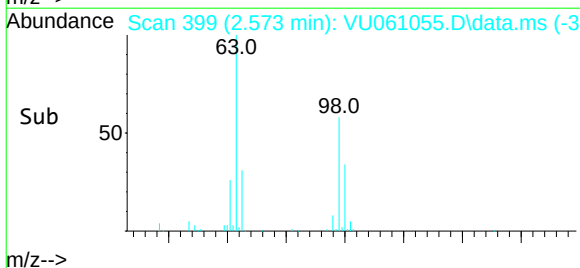
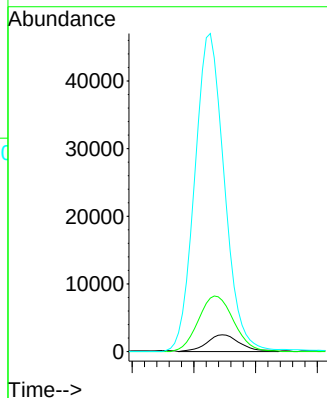
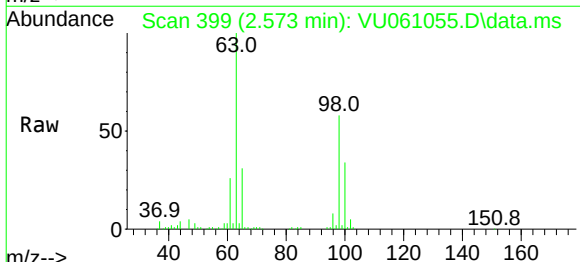
Tgt Ion: 96 Resp: 4642

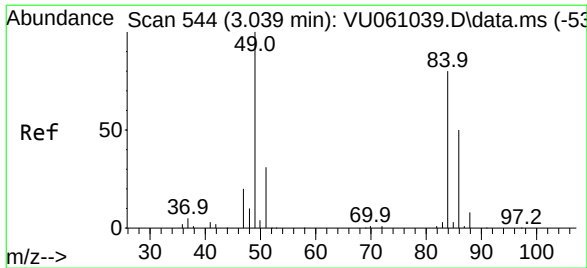
Ion Ratio Lower Upper

96 100

61 304.7 120.7 224.1#

63 1191.8 90.0 167.2#

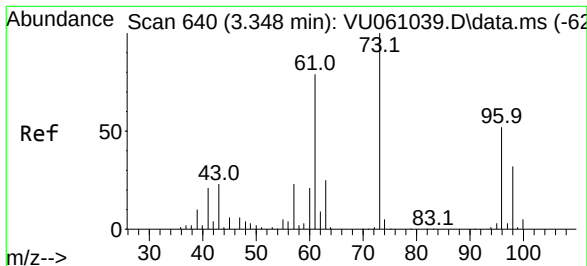
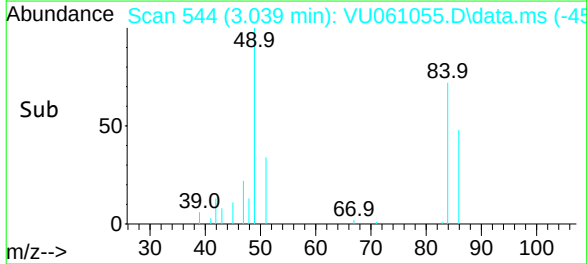
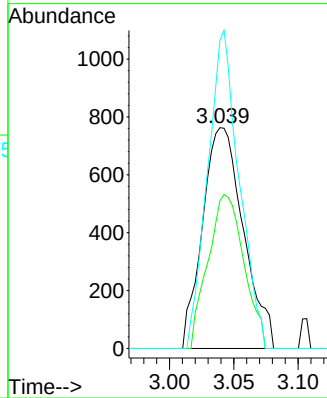
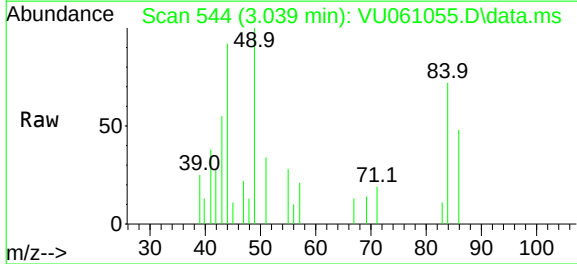




#16
Methylene chloride
Concen: 0.148 ug/L
RT: 3.039 min Scan# 54
Delta R.T. -0.000 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

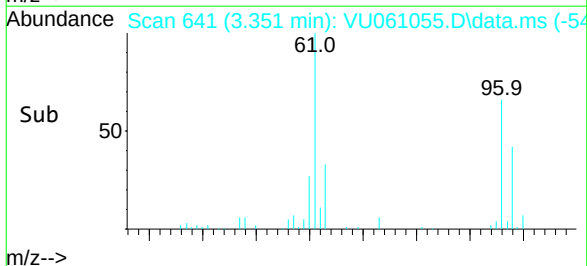
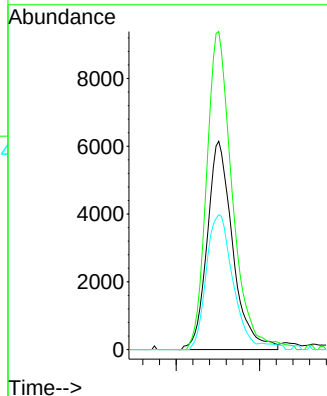
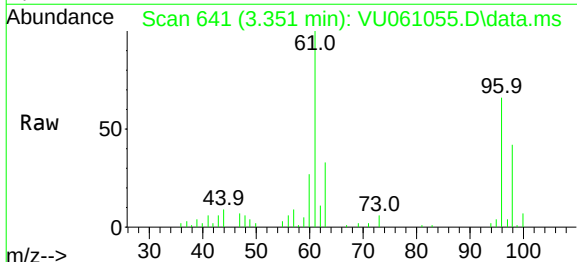
Instrument :
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PMW-3(20240927)

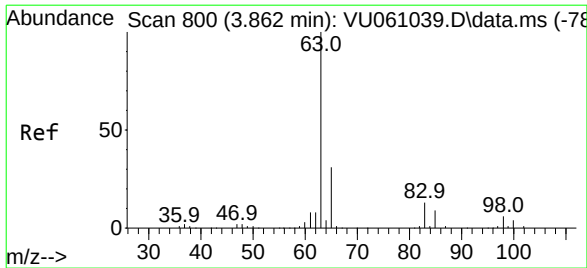
Tgt	Ion: 84	Resp:	1686
Ion	Ratio	Lower	Upper
84	100		
86	66.8	47.3	87.8
49	139.6	78.7	146.1



#18
trans-1,2-Dichloroethene
Concen: 1.203 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

Tgt	Ion: 96	Resp:	13096
Ion	Ratio	Lower	Upper
96	100		
61	152.6	97.2	180.6
98	64.7	43.3	80.5

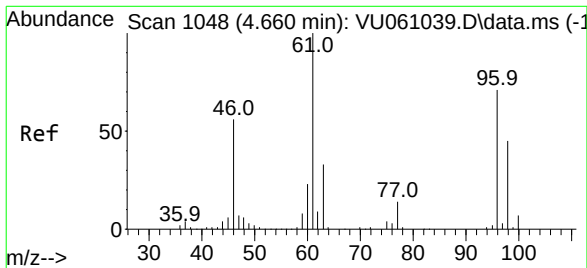
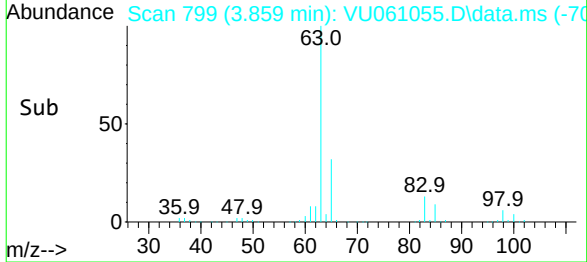
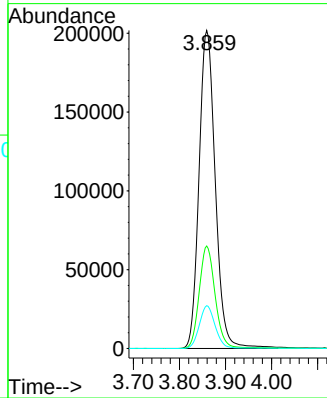
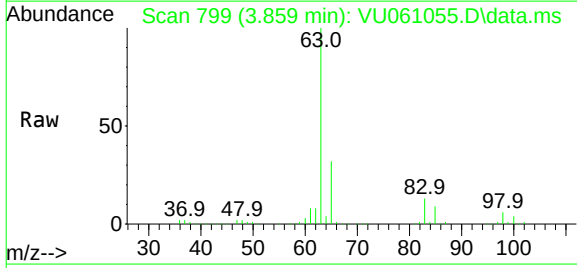




#19
1,1-Dichloroethane
Concen: 23.373 ug/L
RT: 3.859 min Scan# 799
Delta R.T. -0.000 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

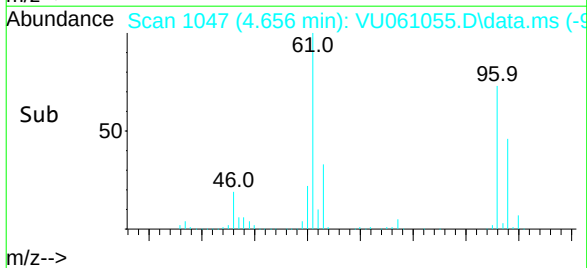
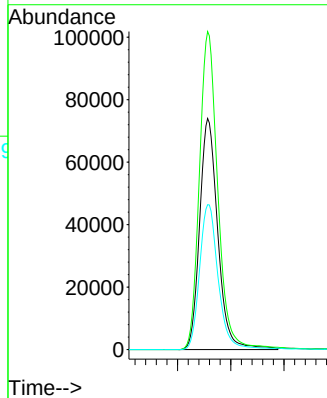
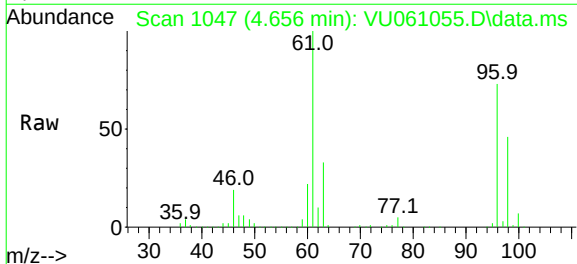
Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20240927)

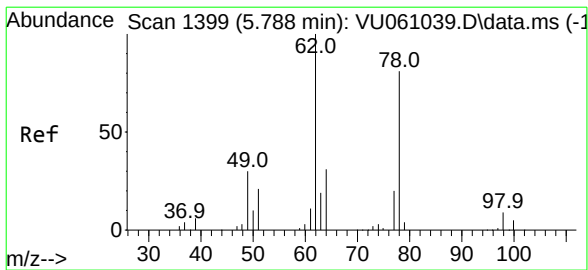
Tgt Ion:	63	Resp:	495159
Ion	Ratio	Lower	Upper
63	100		
65	32.2	23.0	42.8
83	13.5	9.0	16.6



#22
cis-1,2-Dichloroethene
Concen: 14.480 ug/L
RT: 4.656 min Scan# 1047
Delta R.T. -0.000 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

Tgt Ion:	96	Resp:	175568
Ion	Ratio	Lower	Upper
96	100		
61	137.6	89.7	166.5
98	62.7	45.1	83.9

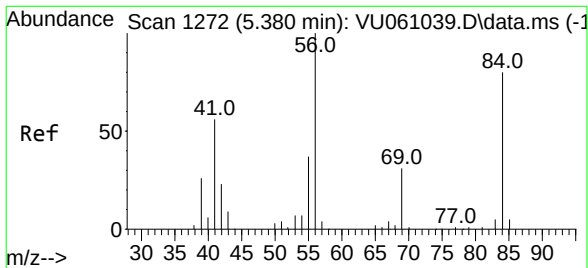
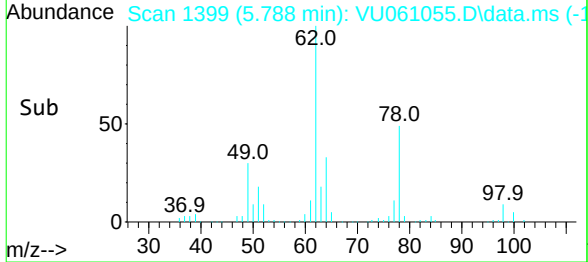
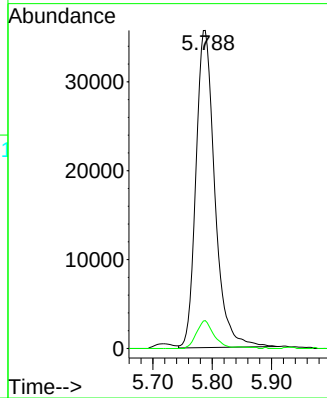
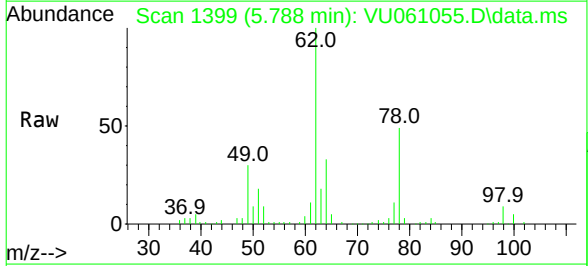




#27
1,2-Dichloroethane
Concen: 5.636 ug/L
RT: 5.788 min Scan# 1399
Delta R.T. 0.003 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

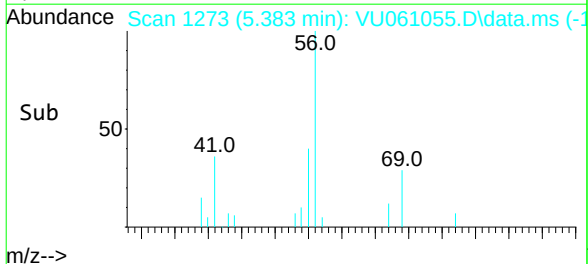
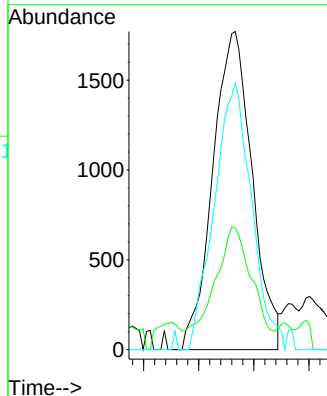
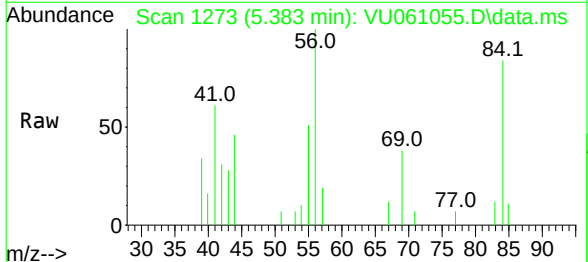
Instrument :
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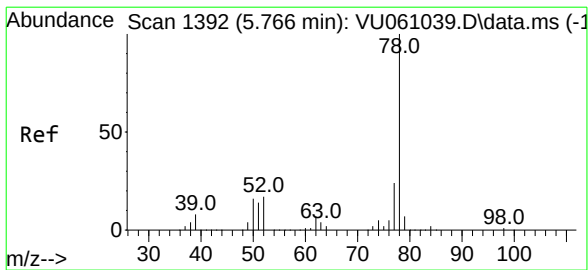
Tgt Ion: 62 Resp: 78788
Ion Ratio Lower Upper
62 100
98 8.8 8.2 12.4



#30
Cyclohexane
Concen: 0.213 ug/L
RT: 5.383 min Scan# 1273
Delta R.T. 0.003 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

Tgt Ion: 56 Resp: 4388
Ion Ratio Lower Upper
56 100
69 28.6 25.4 38.0
84 79.6 71.0 106.6





#33

Benzene

Concen: 2.345 ug/L

RT: 5.766 min Scan# 13

Delta R.T. -0.000 min

Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

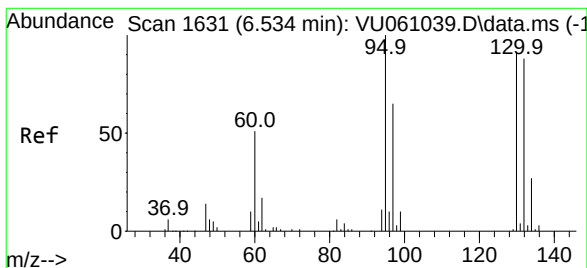
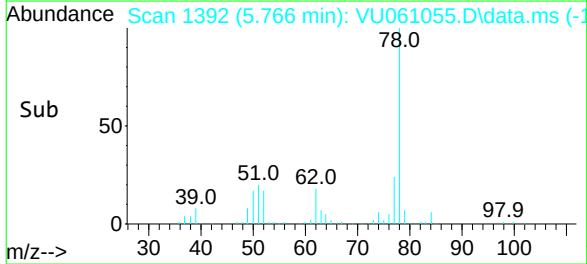
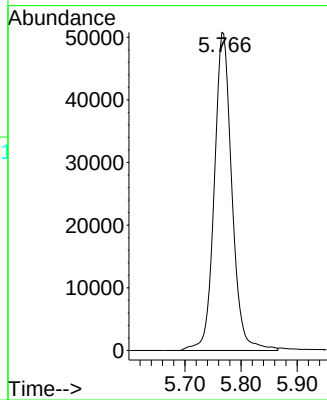
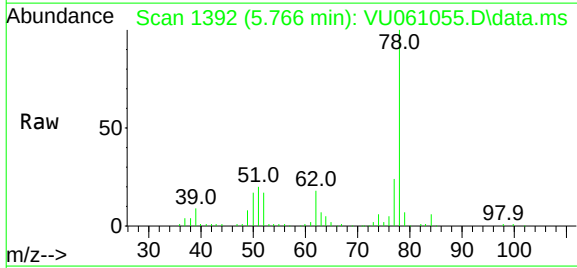
Instrument :

MSVOA_U

ClientSampleId :

PMW-3(20240927)

Tgt Ion: 78 Resp: 110700



#34

Trichloroethene

Concen: 2.224 ug/L

RT: 6.537 min Scan# 1632

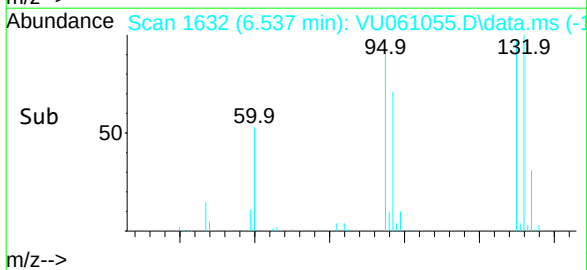
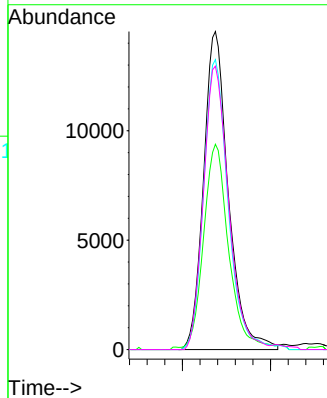
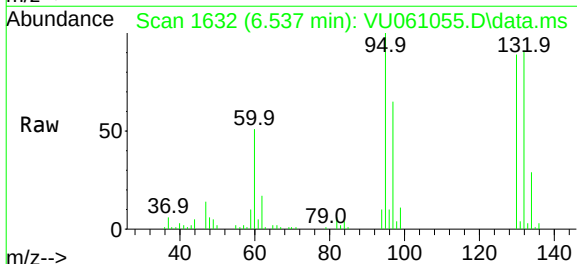
Delta R.T. 0.003 min

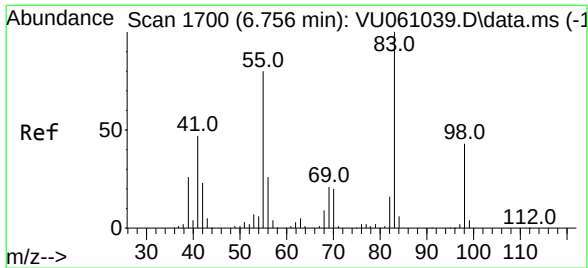
Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

Tgt Ion: 95 Resp: 28458

Ion	Ratio	Lower	Upper
95	100		
97	64.6	44.9	83.5
132	91.2	63.5	117.9
130	89.1	70.2	130.4

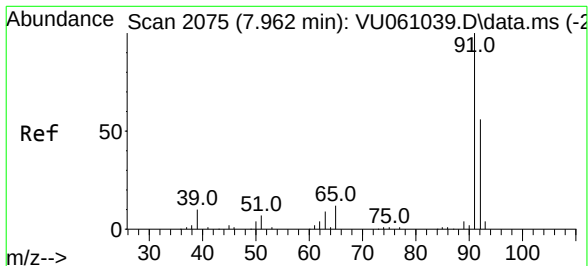
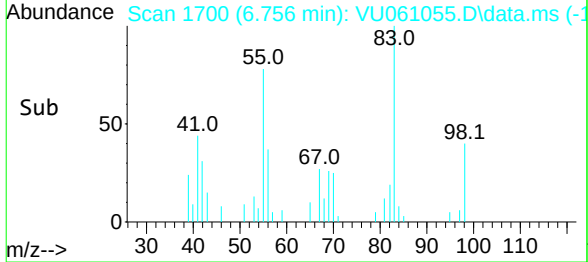
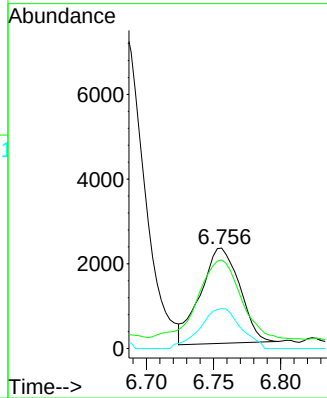
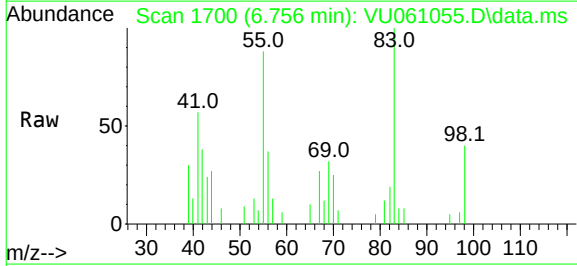




#35
Methylcyclohexane
Concen: 0.220 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. 0.003 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

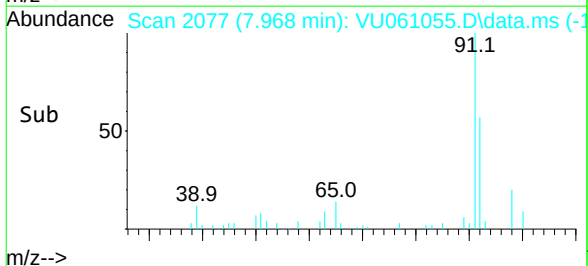
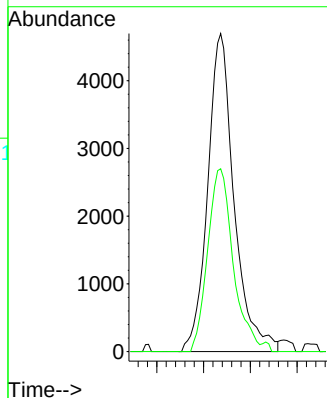
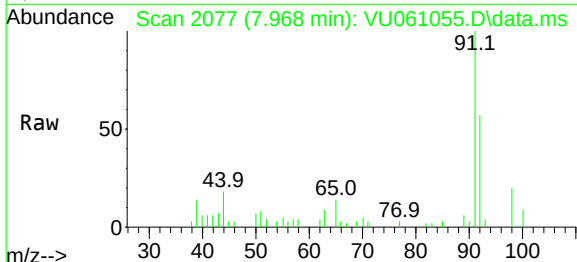
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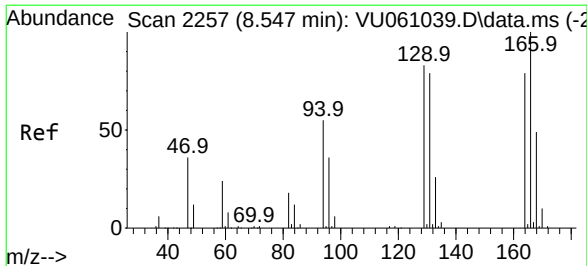
Tgt Ion:	83	Resp:	4554
Ion	Ratio	Lower	Upper
83	100		
55	93.3	62.6	94.0
98	43.3	37.6	56.4



#42
Toluene
Concen: 0.183 ug/L
RT: 7.968 min Scan# 2077
Delta R.T. 0.006 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

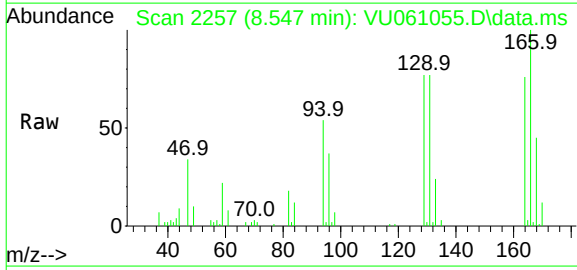
Tgt Ion:	91	Resp:	9200
Ion	Ratio	Lower	Upper
91	100		
92	57.5	40.5	75.3



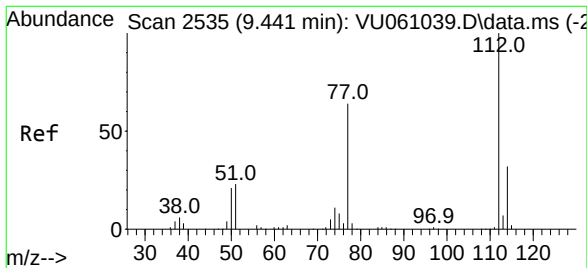
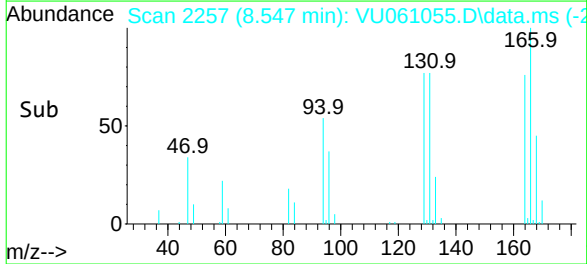
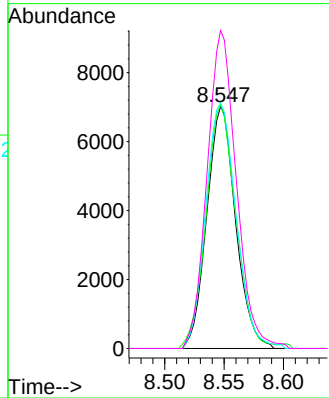


#47
Tetrachloroethene
Concen: 1.419 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. 0.003 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20240927)

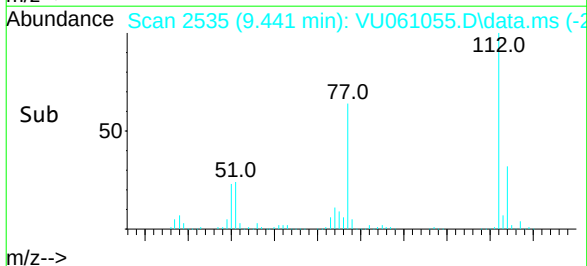
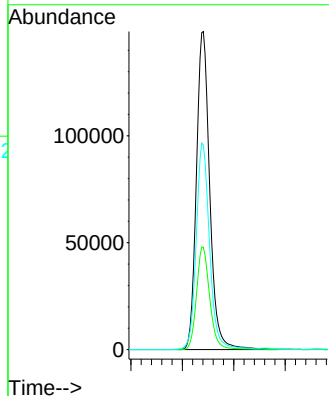
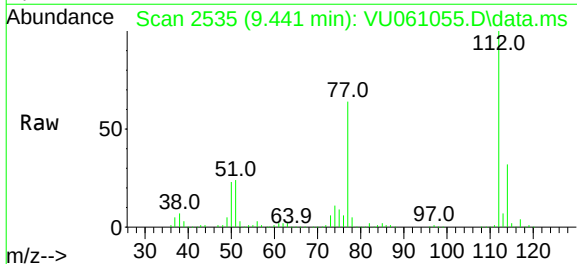


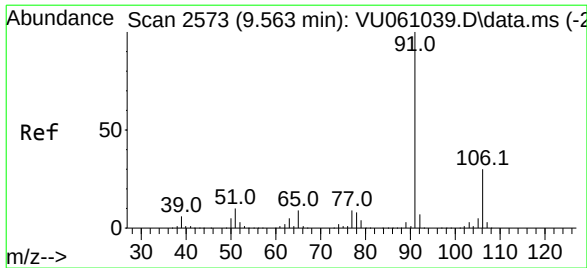
Tgt Ion:	164	Resp:	11817
Ion	Ratio	Lower	Upper
164	100		
129	100.7	67.3	124.9
131	101.5	65.4	121.4
166	131.4	89.5	166.1



#51
Chlorobenzene
Concen: 8.763 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.003 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

Tgt Ion:	112	Resp:	268439
Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.2	41.2
77	64.3	46.1	69.1

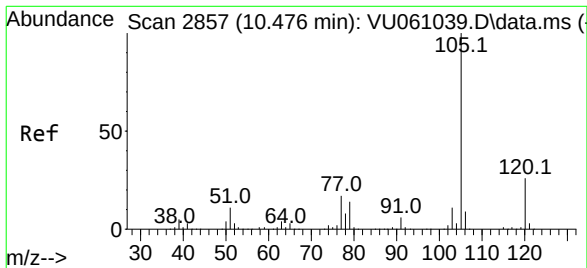
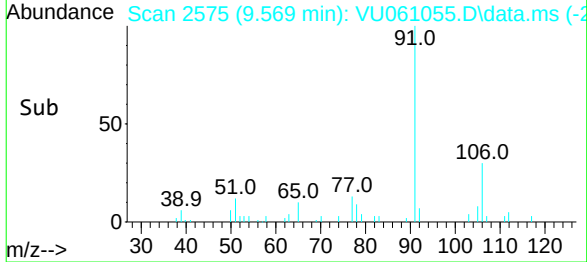
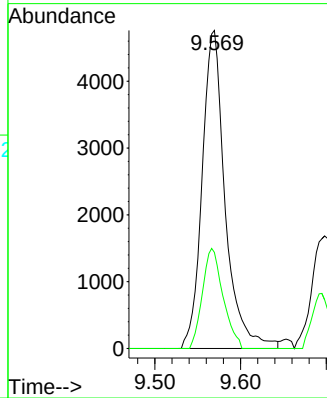
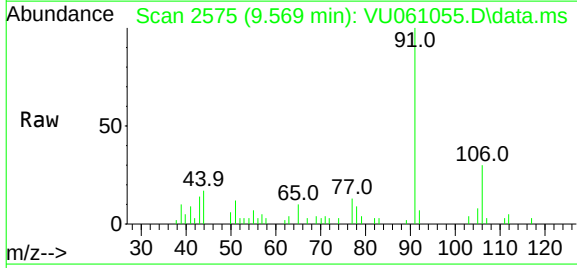




#52
Ethylbenzene
Concen: 0.156 ug/L
RT: 9.569 min Scan# 2573
Delta R.T. 0.006 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

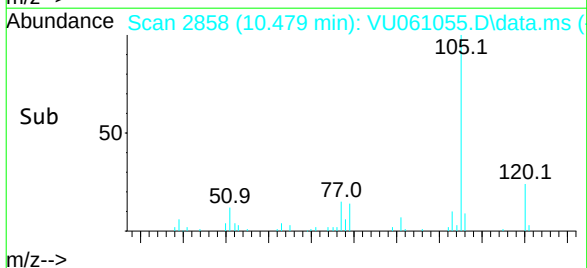
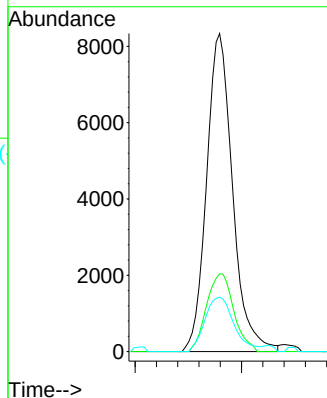
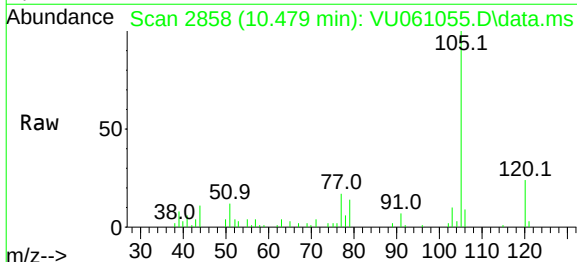
Instrument :
MSVOA_U
ClientSampleId :
PMW-3(20240927)

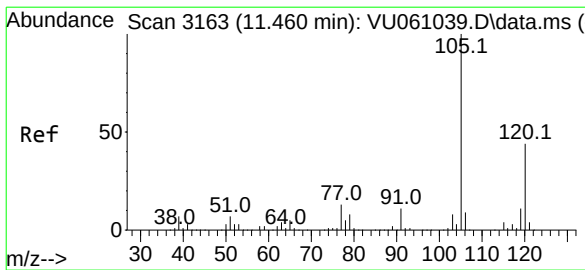
Tgt Ion: 91 Resp: 8894
Ion Ratio Lower Upper
91 100
106 30.2 21.8 40.6



#60
Isopropylbenzene
Concen: 0.281 ug/L
RT: 10.479 min Scan# 2858
Delta R.T. 0.003 min
Lab File: VU061055.D
Acq: 01 Oct 2024 19:51

Tgt Ion: 105 Resp: 14152
Ion Ratio Lower Upper
105 100
120 25.6 21.5 32.3
77 0.0 12.6 18.8#





#63

1,2,4-Trimethylbenzene

Concen: 0.227 ug/L

RT: 11.463 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

Instrument :

MSVOA_U

ClientSampleId :

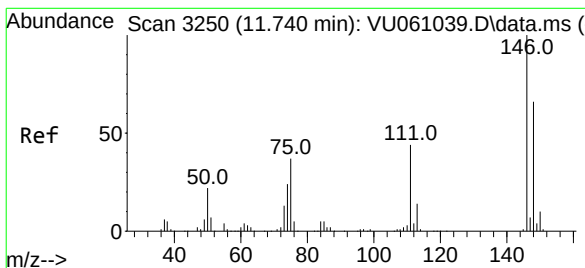
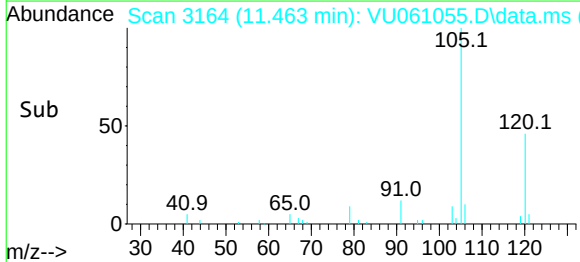
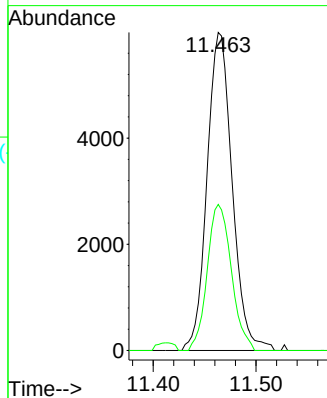
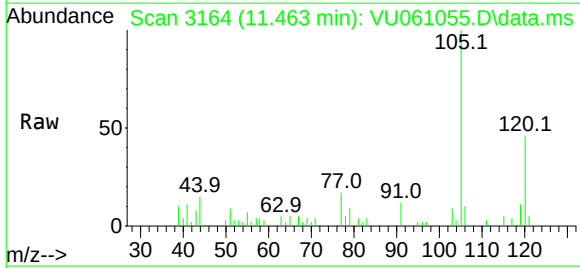
PMW-3(20240927)

Tgt Ion:105 Resp: 10163

Ion Ratio Lower Upper

105 100

120 44.1 36.1 54.1



#64

1,3-Dichlorobenzene

Concen: 1.390 ug/L

RT: 11.740 min Scan# 3250

Delta R.T. 0.003 min

Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

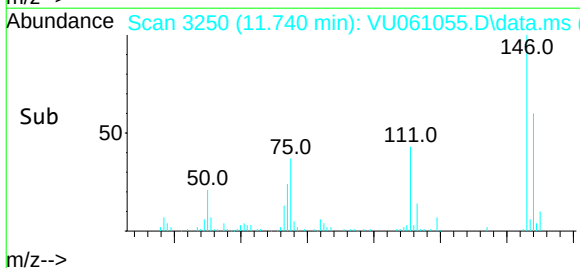
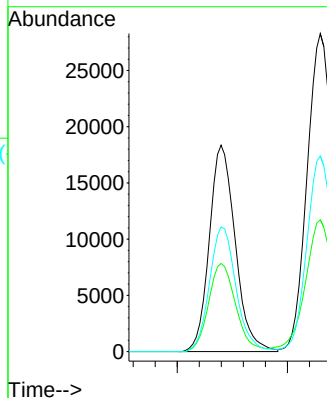
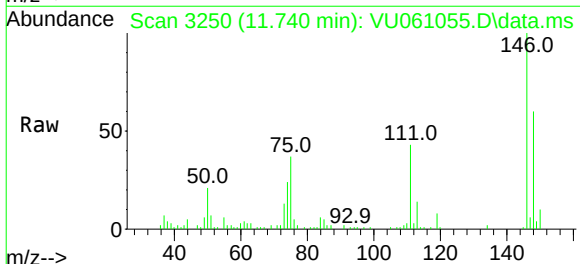
Tgt Ion:146 Resp: 29997

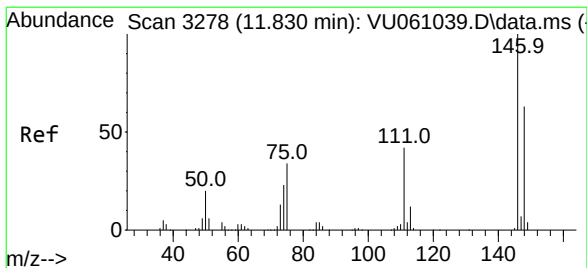
Ion Ratio Lower Upper

146 100

111 42.7 27.5 51.1

148 60.4 43.7 81.1





#65

1,4-Dichlorobenzene

Concen: 2.218 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

Instrument :

MSVOA_U

ClientSampleId :

PMW-3(20240927)

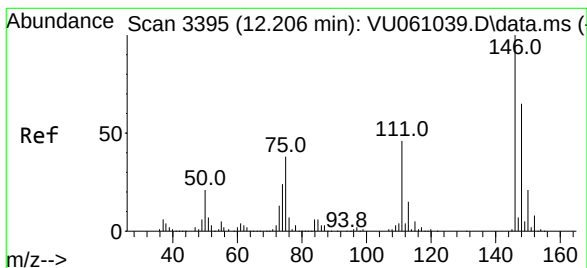
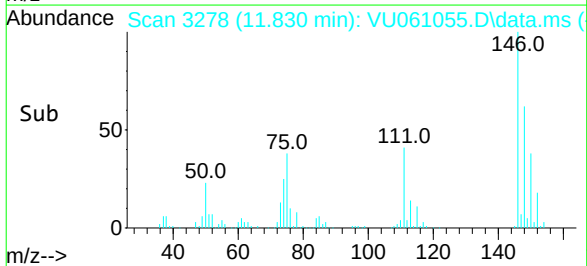
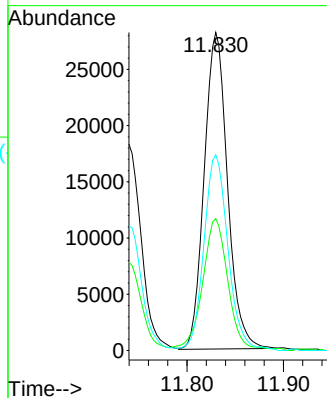
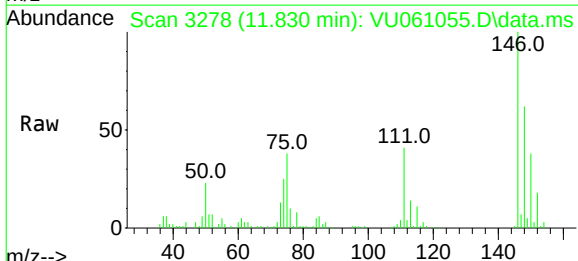
Tgt Ion:146 Resp: 47317

Ion Ratio Lower Upper

146 100

111 41.5 26.3 48.9

148 61.5 45.3 84.1



#67

1,2-Dichlorobenzene

Concen: 0.124 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.003 min

Lab File: VU061055.D

Acq: 01 Oct 2024 19:51

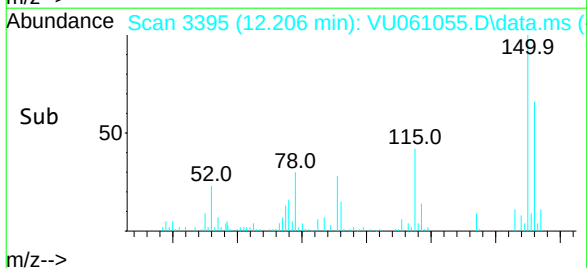
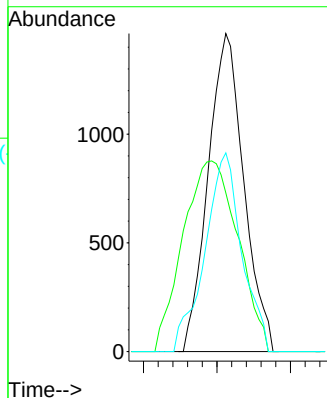
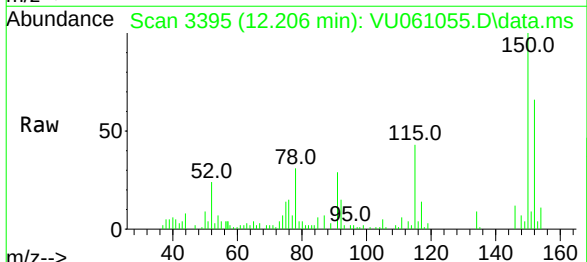
Tgt Ion:146 Resp: 2467

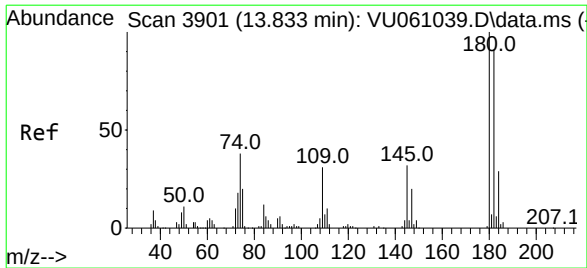
Ion Ratio Lower Upper

146 100

111 49.9 33.4 50.0

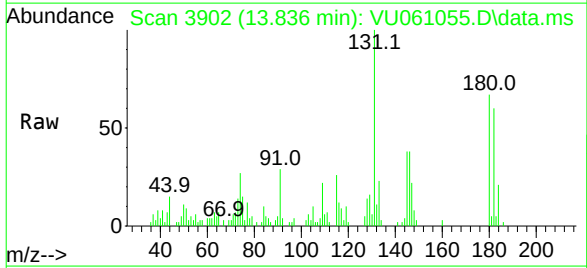
148 62.5 50.9 76.3





#70
 1,2,4-trichlorobenzene
 Concen: 0.619 ug/L
 RT: 13.836 min Scan# 39
 Delta R.T. 0.003 min
 Lab File: VU061055.D
 Acq: 01 Oct 2024 19:51

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-3(20240927)



Tgt Ion:180 Resp: 7214
 Ion Ratio Lower Upper
 180 100
 182 96.4 77.4 116.2
 145 64.7 22.9 34.3#

