

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012924\
 Data File : VU057727.D
 Acq On : 29 Jan 2024 19:22
 Operator : MD/SY
 Sample : P1239-13
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 30 00:36:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR012324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Jan 30 00:30:52 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	62859	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	59183	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	27735	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	27039	7.807	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	= 156.200%#	
7) Chloroethane-d5	1.910	69	16278	5.609	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	= 112.200%	
11) 1,1-Dichloroethene-d2	2.563	65	9099	5.587	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	= 111.800%	
20) 2-Butanone-d5	4.669	46	22357	34.219	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	= 68.440%	
24) Chloroform-d	5.058	84	35913	5.109	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 102.200%	
26) 1,2-Dichloroethane-d4	5.695	65	18286	5.724	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 114.400%	
32) Benzene-d6	5.721	84	73244	5.276	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 105.600%	
36) 1,2-Dichloropropane-d6	6.682	67	22551	5.386	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	= 107.800%	
41) Toluene-d8	7.891	98	68842	5.224	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 104.400%	
43) trans-1,3-Dichloroprop...	8.174	79	8778	5.260	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	= 105.200%	
46) 2-Hexanone-d5	8.630	63	30363	57.025	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	= 114.060%	
56) 1,1,2,2-Tetrachloroeth...	10.749	84	15092	5.377	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	= 107.600%	
66) 1,2-Dichlorobenzene-d4	12.187	152	21800	5.601	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	= 112.000%	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	979859	172.737	ug/L	99
12) 1,1-Dichloroethene	2.576	96	75496	16.526	ug/L	91
14) Carbon disulfide	2.798	76	8121	0.548	ug/L	98
18) trans-1,2-Dichloroethene	3.351	96	276596	57.484	ug/L	98
19) 1,1-Dichloroethane	3.862	63	238077	26.794	ug/L	99
22) cis-1,2-Dichloroethene	4.669	96	19893526	3845.720	ug/L	97
27) 1,2-Dichloroethane	5.795	62	1444	0.263	ug/L #	76
29) 1,1,1-Trichloroethane	5.309	97	94602	10.890	ug/L	97
30) Cyclohexane	5.383	56	29448	3.513	ug/L	96
31) Carbon tetrachloride	5.312	117	11714	1.528	ug/L	96
33) Benzene	5.769	78	5274	0.260	ug/L	100
34) Trichloroethene	6.534	95	50242	8.978	ug/L	97
35) Methylcyclohexane	6.756	83	130285	14.412	ug/L	97
37) 1,2-Dichloropropane	6.756	63	1404	0.276	ug/L #	89
42) Toluene	7.962	91	100304	4.583	ug/L	99
45) 1,1,2-Trichloroethane	8.396	97	2858	0.865	ug/L	95
52) Ethylbenzene	9.566	91	25613	1.039	ug/L	98
53) m,p-Xylene	9.692	106	5502	0.605	ug/L	92
54) o-Xylene	10.097	106	5067	0.571	ug/L	98

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Response via : Initial Calibration

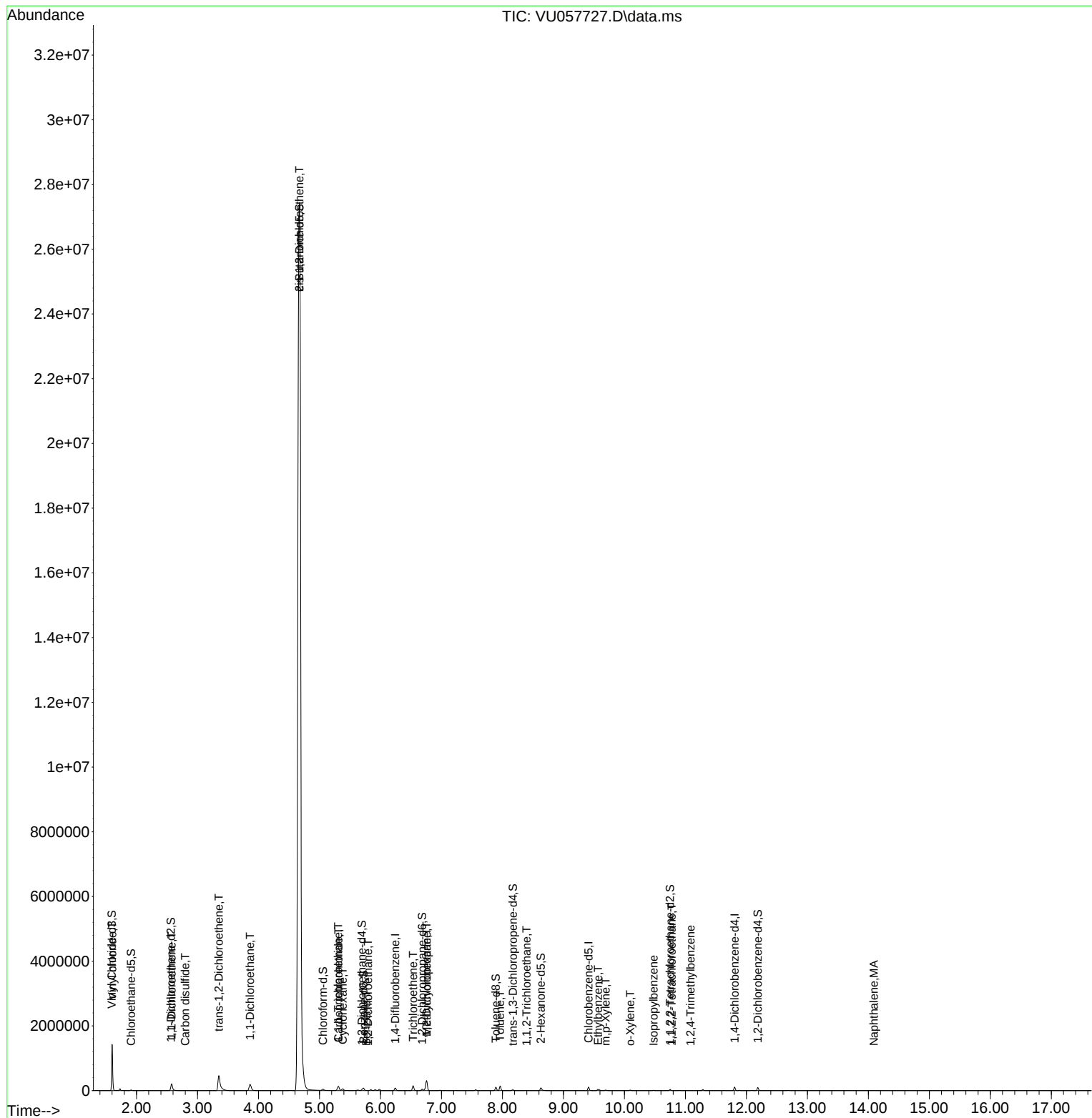
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	10.775	83	826	0.206	ug/L #	94
60) Isopropylbenzene	10.479	105	6588	0.303	ug/L	99
63) 1,2,4-Trimethylbenzene	11.084	105	1319	0.068	ug/L	98
71) Naphthalene	14.090	128	2989	0.396	ug/L	97

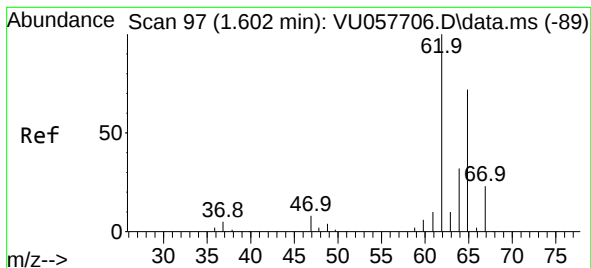
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 172.737 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

Instrument :

MSVOA_U

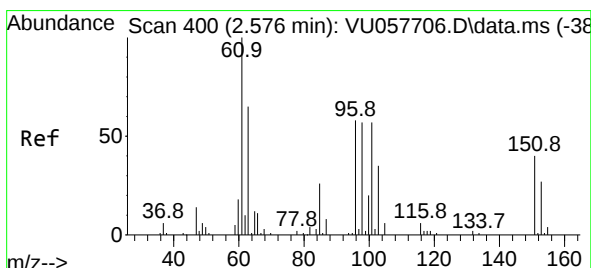
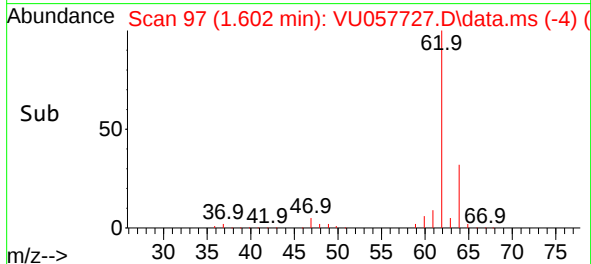
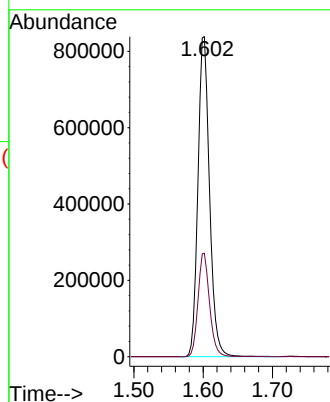
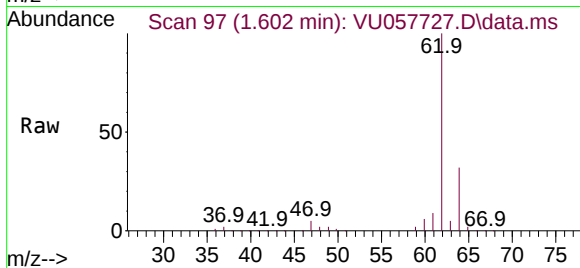
ClientSampleId :

Tgt Ion: 62 Resp: 979859

Ion Ratio Lower Upper

62 100

64 32.3 22.8 42.4



#12

1,1-Dichloroethene

Concen: 16.526 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

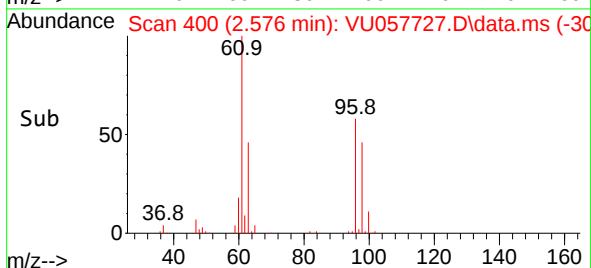
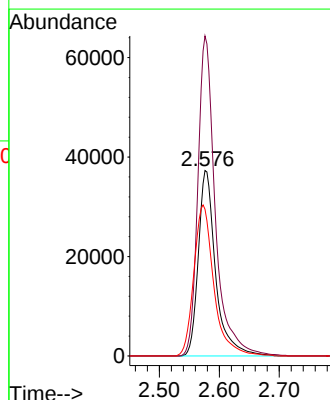
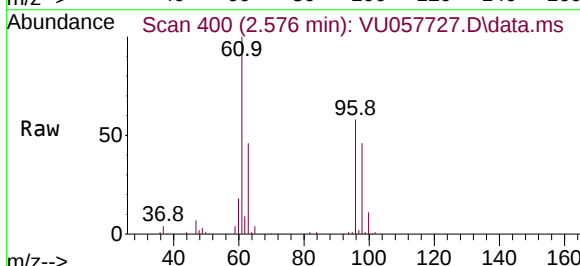
Tgt Ion: 96 Resp: 75496

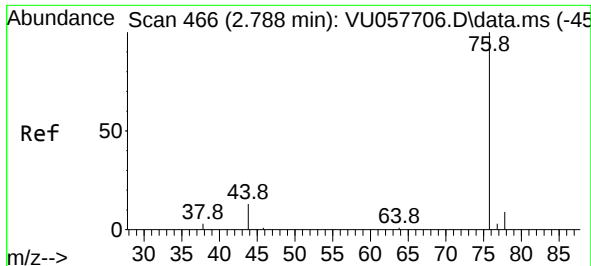
Ion Ratio Lower Upper

96 100

61 172.6 120.7 224.1

63 79.2 72.5 134.7

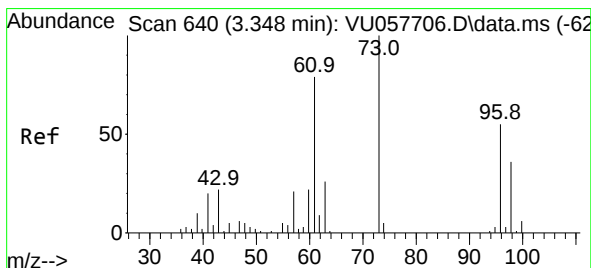
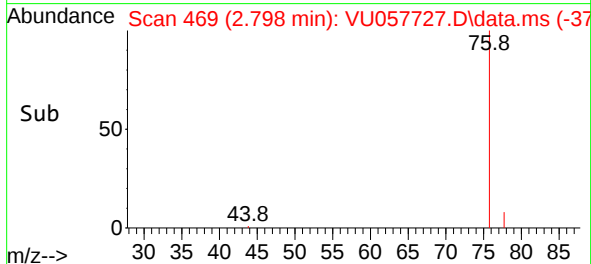
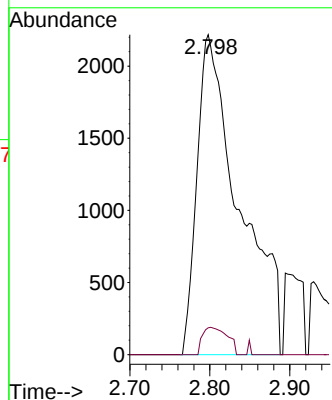
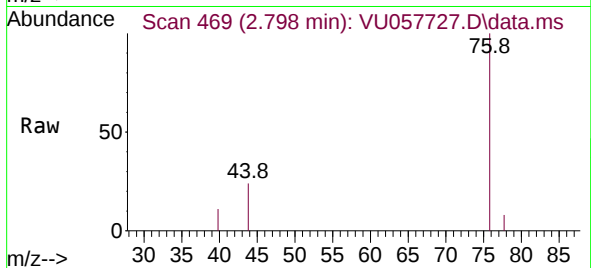




#14
Carbon disulfide
Concen: 0.548 ug/L
RT: 2.798 min Scan# 410
Delta R.T. 0.010 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

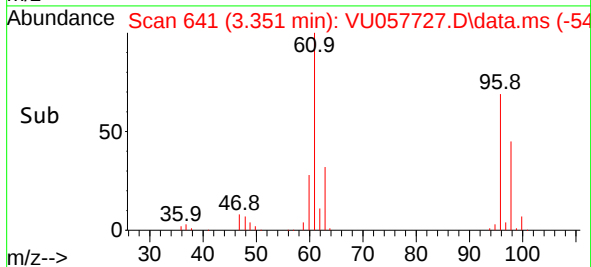
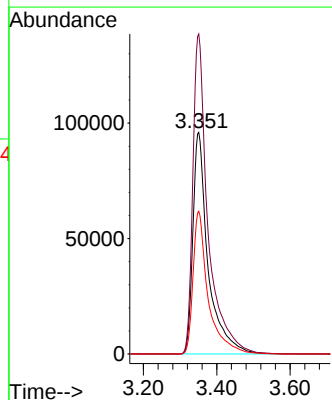
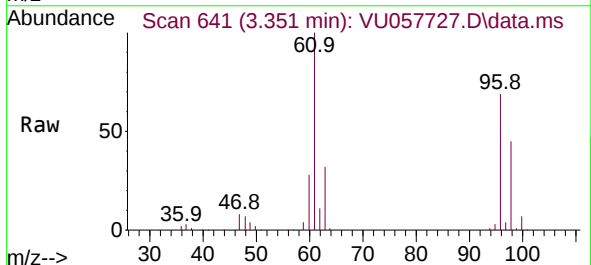
Instrument :
MSVOA_U
ClientSampleId :

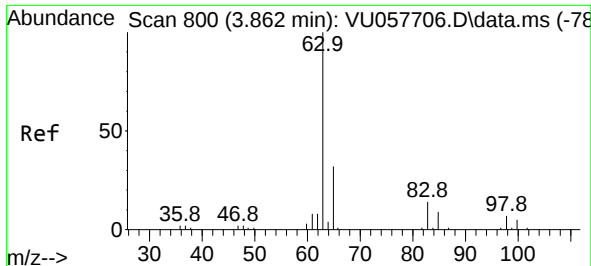
Tgt Ion: 76 Resp: 8121
Ion Ratio Lower Upper
76 100
78 8.4 7.3 10.9



#18
trans-1,2-Dichloroethene
Concen: 57.484 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Tgt Ion: 96 Resp: 276596
Ion Ratio Lower Upper
96 100
61 144.4 99.3 184.5
98 64.4 44.5 82.7





#19

1,1-Dichloroethane

Concen: 26.794 ug/L

RT: 3.862 min Scan# 800

Delta R.T. 0.000 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

Instrument :

MSVOA_U

ClientSampleId :

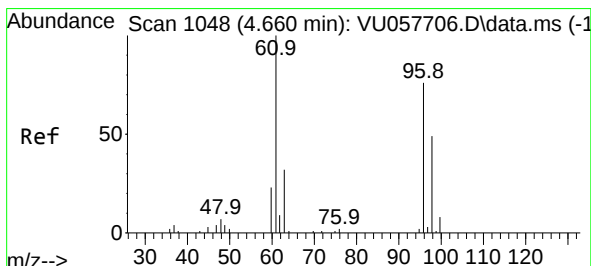
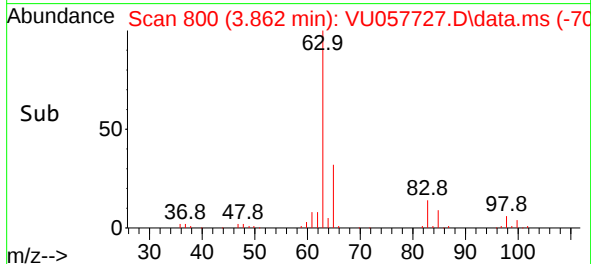
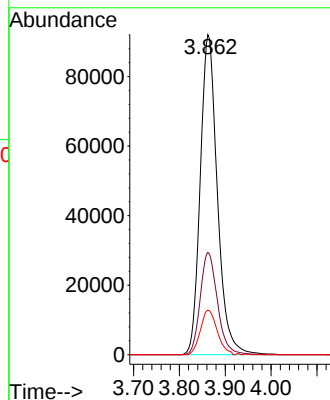
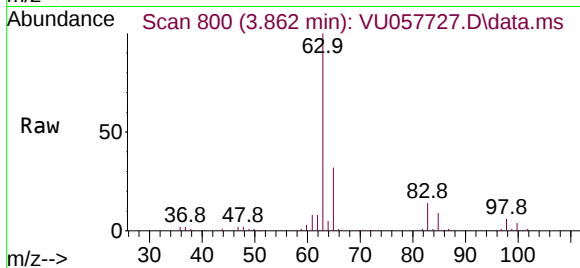
Tgt Ion: 63 Resp: 238077

Ion Ratio Lower Upper

63 100

65 31.9 23.0 42.8

83 13.9 9.7 17.9



#22

cis-1,2-Dichloroethene

Concen: 3845.720 ug/L

RT: 4.669 min Scan# 1051

Delta R.T. 0.010 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

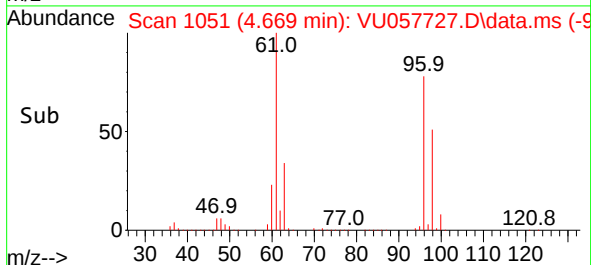
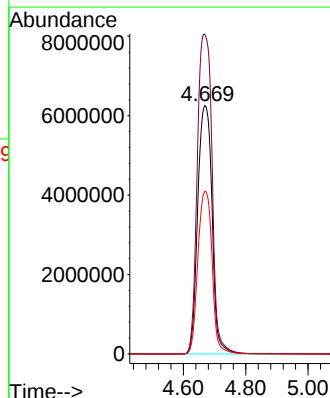
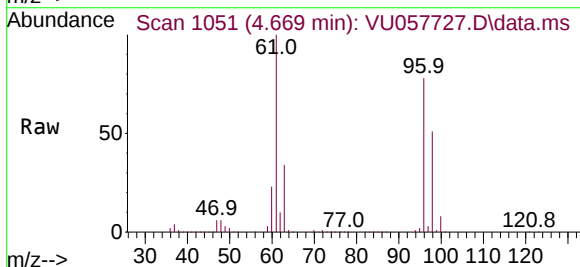
Tgt Ion: 96 Resp:19893526

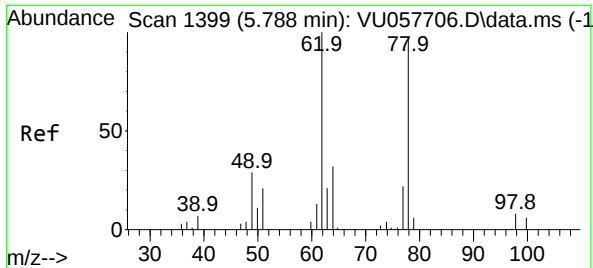
Ion Ratio Lower Upper

96 100

61 128.5 92.7 172.1

98 65.5 44.9 83.5

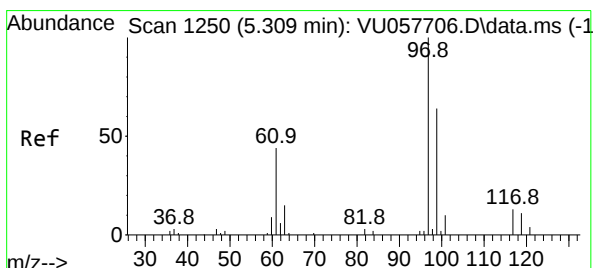
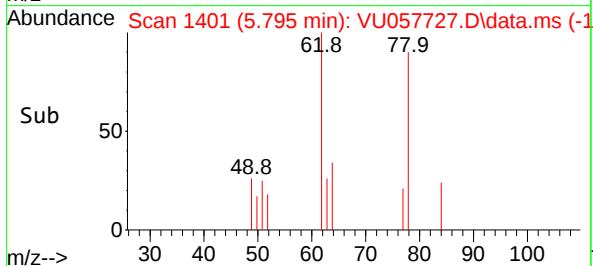
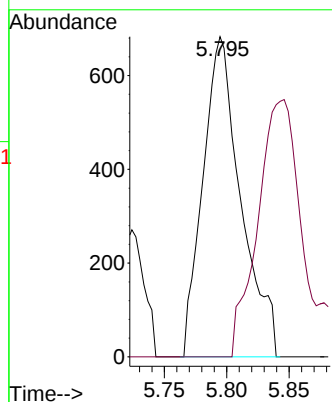
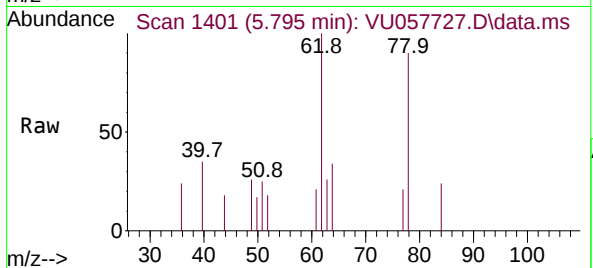




#27
1,2-Dichloroethane
Concen: 0.263 ug/L
RT: 5.795 min Scan# 1401
Delta R.T. 0.006 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

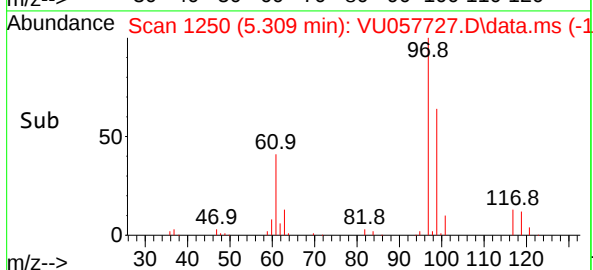
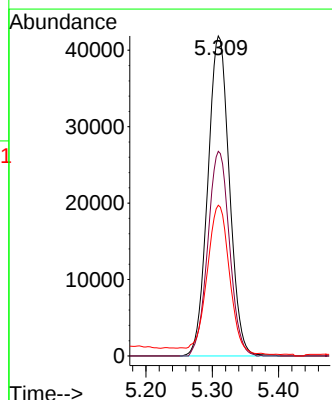
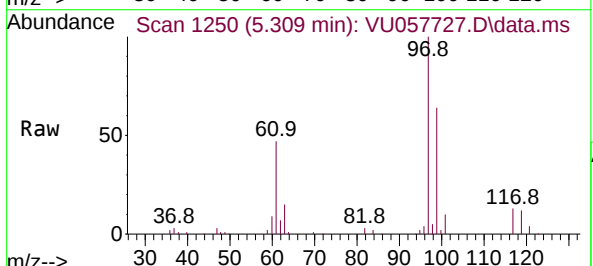
Instrument :
MSVOA_U
ClientSampleId :

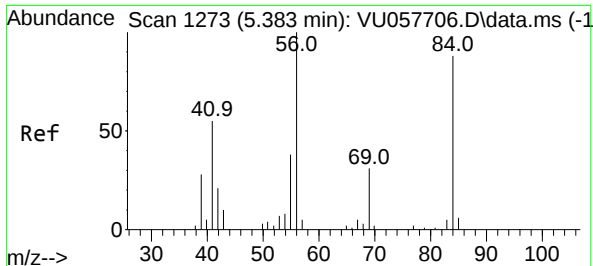
Tgt Ion: 62 Resp: 1444
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



#29
1,1,1-Trichloroethane
Concen: 10.890 ug/L
RT: 5.309 min Scan# 1250
Delta R.T. 0.000 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Tgt Ion: 97 Resp: 94602
Ion Ratio Lower Upper
97 100
99 64.4 52.0 78.0
61 47.9 35.3 52.9

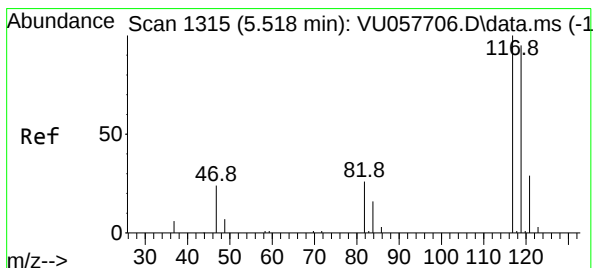
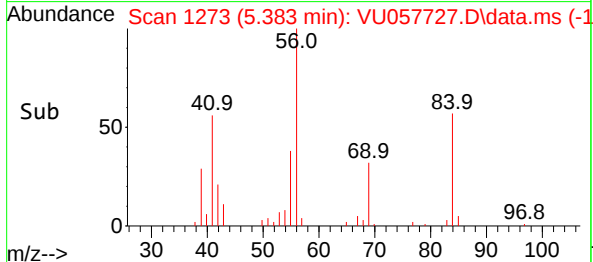
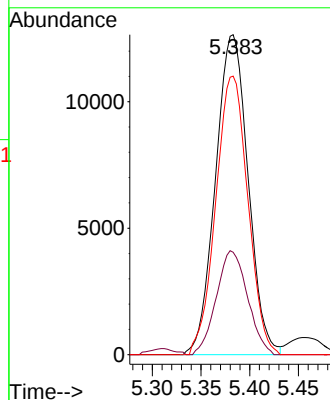
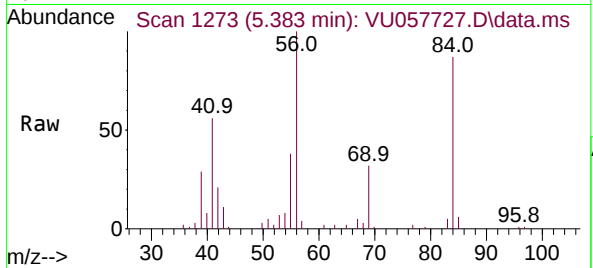




#30
Cyclohexane
Concen: 3.513 ug/L
RT: 5.383 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

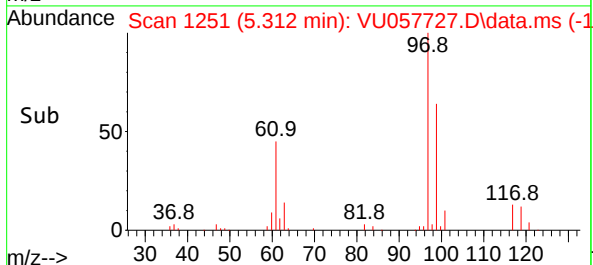
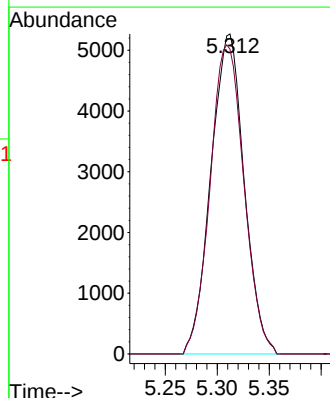
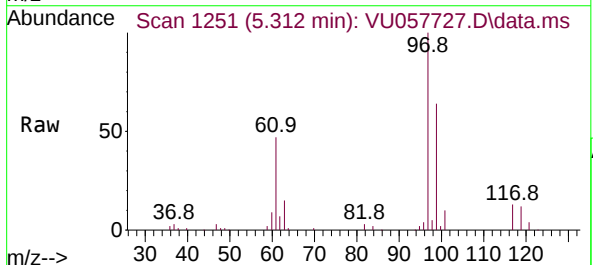
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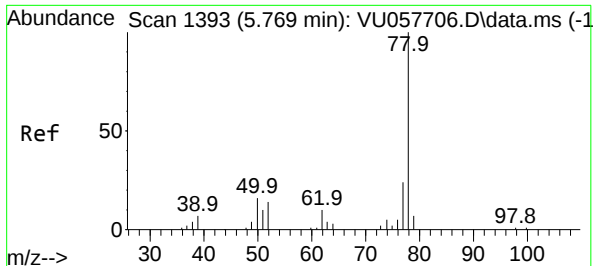
Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.1	25.8	38.8
84	85.6	72.0	108.0



#31
Carbon tetrachloride
Concen: 1.528 ug/L
RT: 5.312 min Scan# 1251
Delta R.T. -0.206 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.2	75.6	113.4

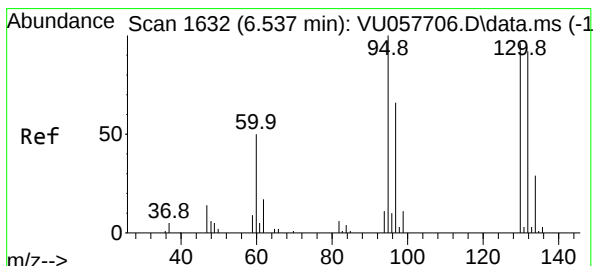
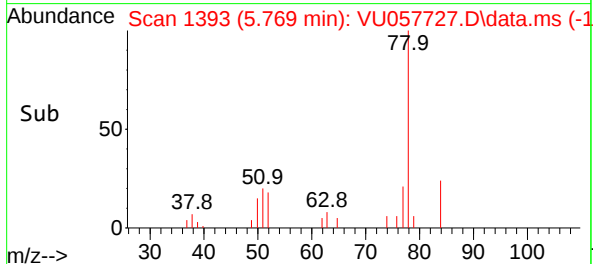
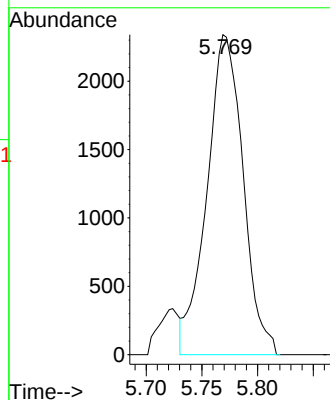
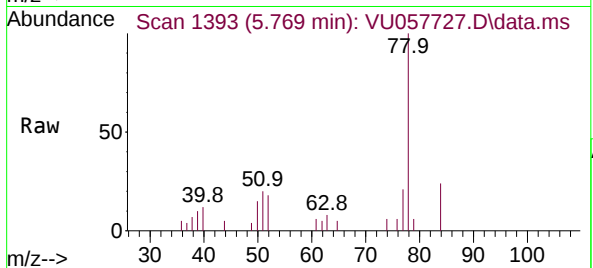




#33
Benzene
Concen: 0.260 ug/L
RT: 5.769 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Instrument :
MSVOA_U
ClientSampleId :

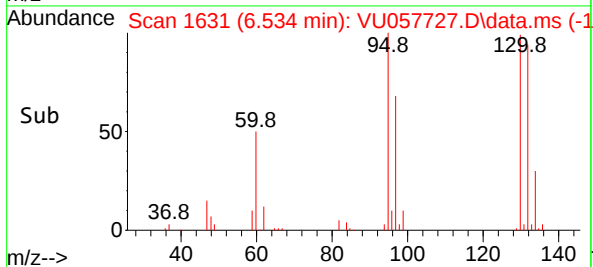
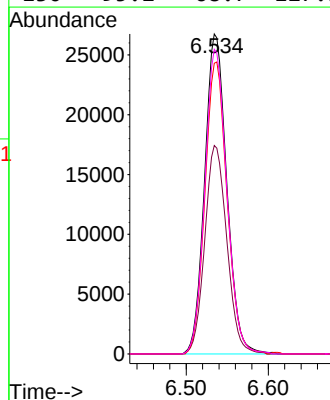
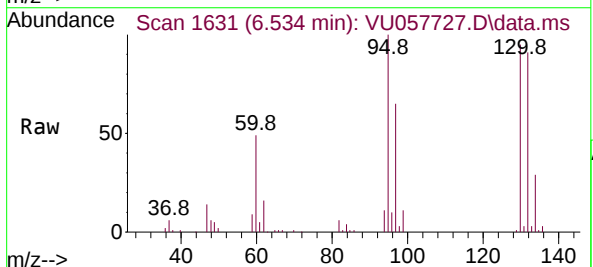
Tgt Ion: 78 Resp: 5274

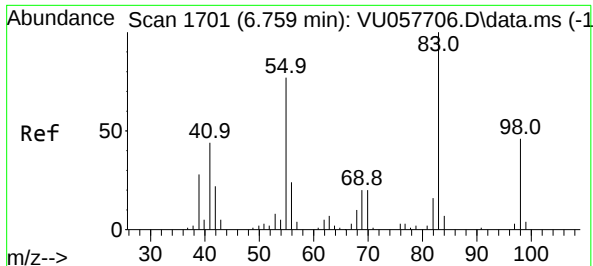


#34
Trichloroethene
Concen: 8.978 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.003 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Tgt Ion: 95 Resp: 50242

Ion	Ratio	Lower	Upper
95	100		
97	65.2	46.1	85.5
132	90.8	66.1	122.8
130	95.2	68.7	127.5

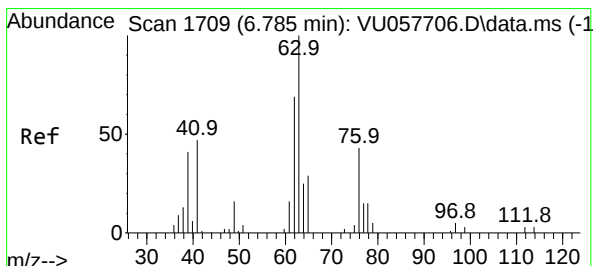
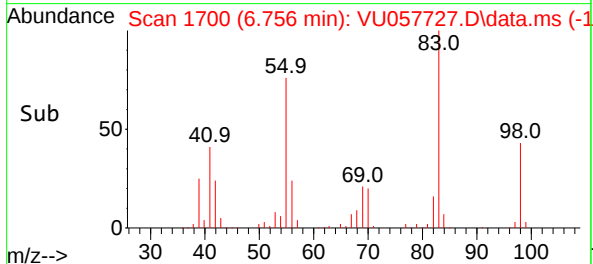
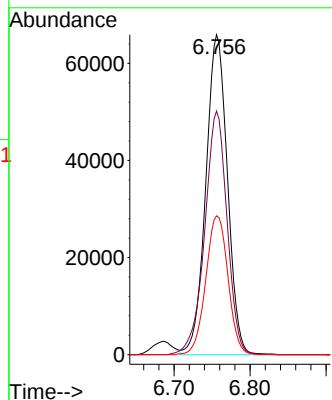
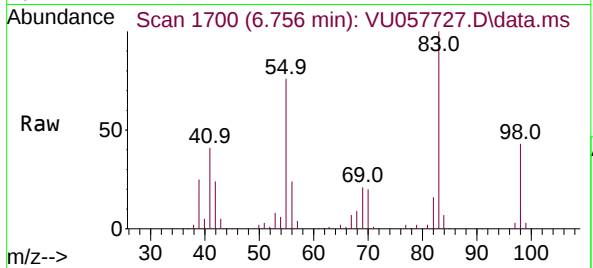




#35
Methylcyclohexane
Concen: 14.412 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. -0.003 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

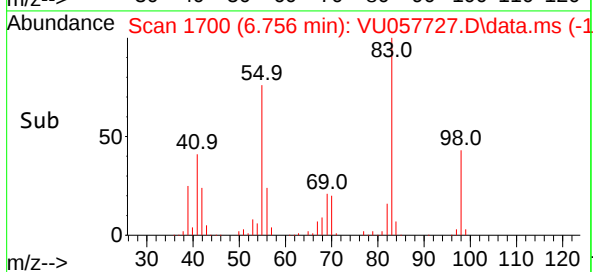
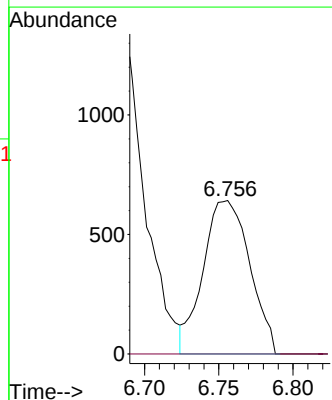
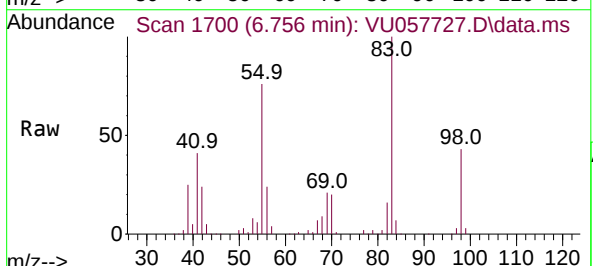
Instrument :
MSVOA_U
ClientSampleId :

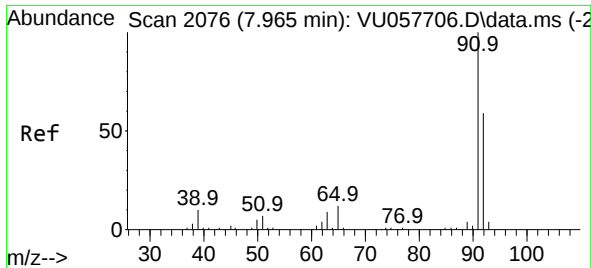
Tgt Ion: 83 Resp: 130285
Ion Ratio Lower Upper
83 100
55 78.8 61.4 92.0
98 44.5 38.2 57.4



#37
1,2-Dichloropropane
Concen: 0.276 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. -0.029 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Tgt Ion: 63 Resp: 1404
Ion Ratio Lower Upper
63 100
112 0.0 3.0 4.4#





#42

Toluene

Concen: 4.583 ug/L

RT: 7.962 min Scan# 2076

Delta R.T. -0.003 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

Instrument :

MSVOA_U

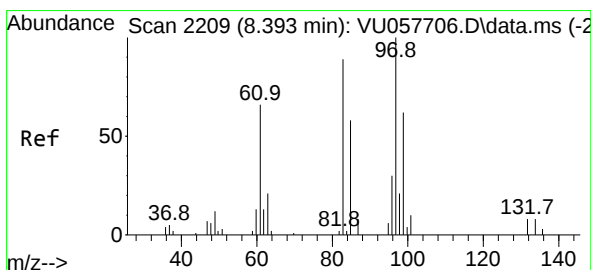
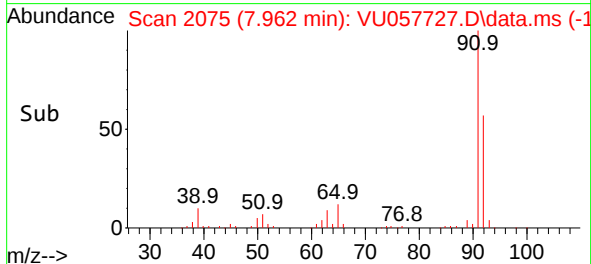
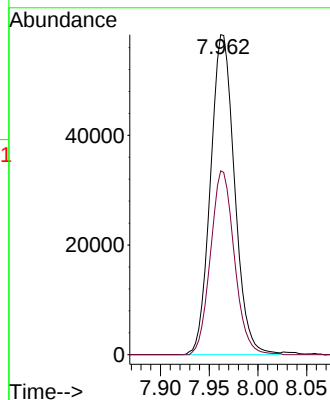
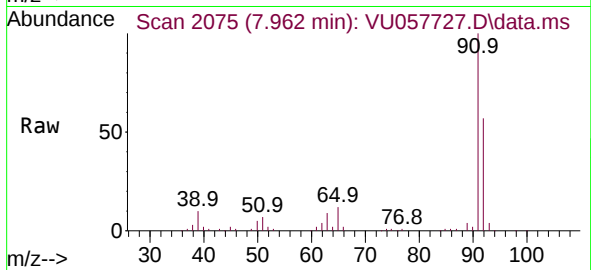
ClientSampleId :

Tgt Ion: 91 Resp: 100304

Ion Ratio Lower Upper

91 100

92 57.4 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 0.865 ug/L

RT: 8.396 min Scan# 2210

Delta R.T. 0.003 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

Tgt Ion: 97 Resp: 2858

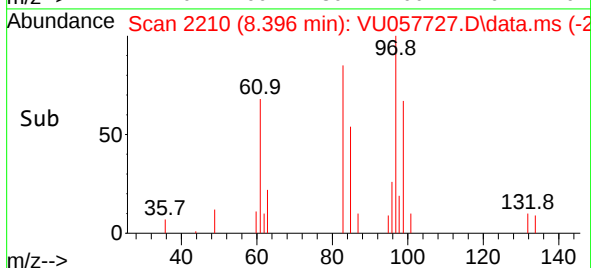
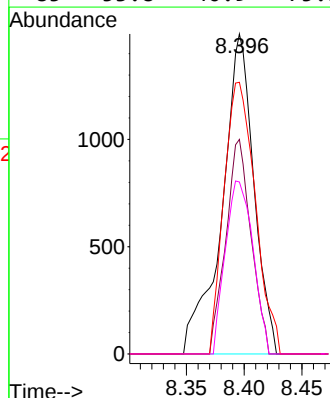
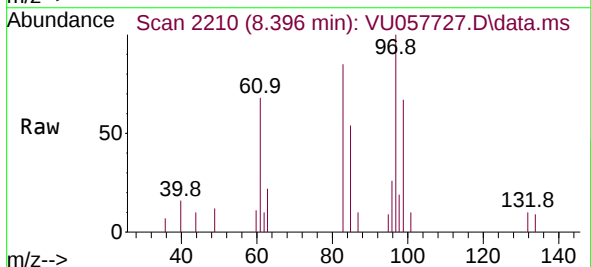
Ion Ratio Lower Upper

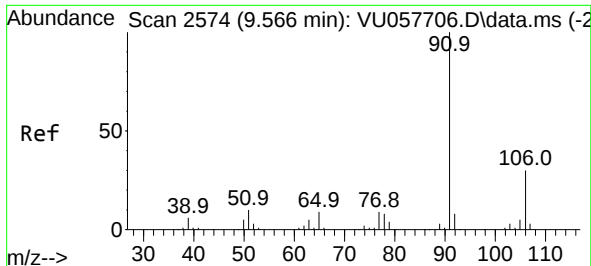
97 100

99 67.0 45.1 83.7

83 84.9 62.3 115.7

85 53.8 40.9 75.9

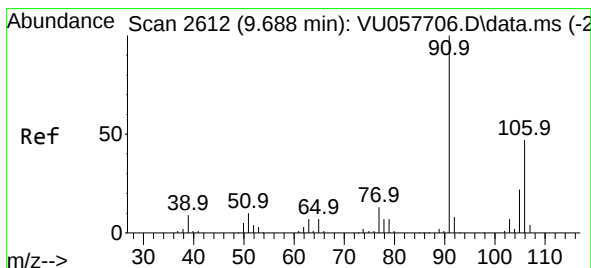
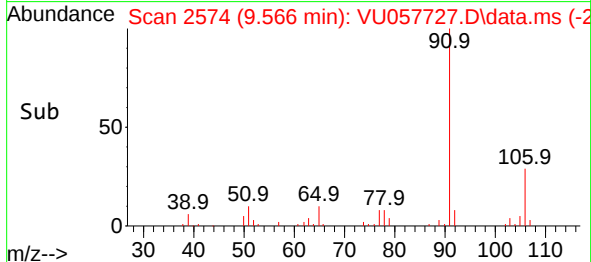
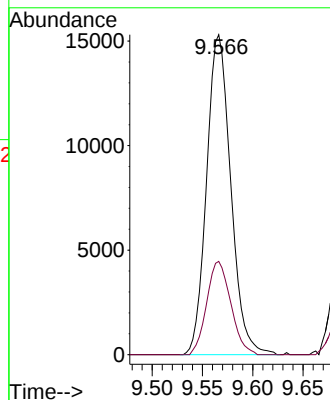
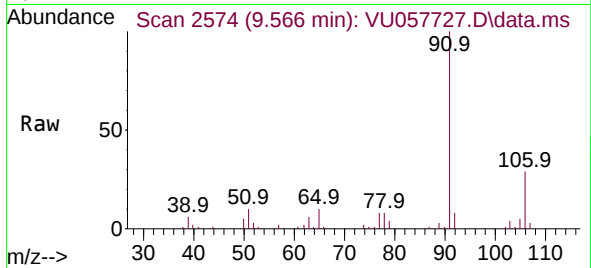




#52
Ethylbenzene
Concen: 1.039 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

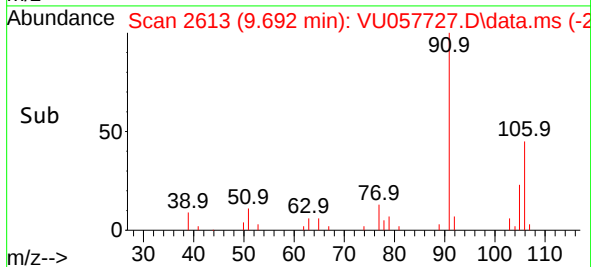
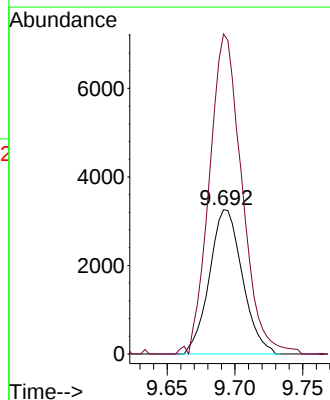
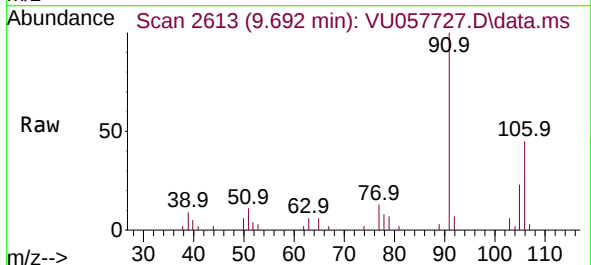
Instrument :
MSVOA_U
ClientSampleId :

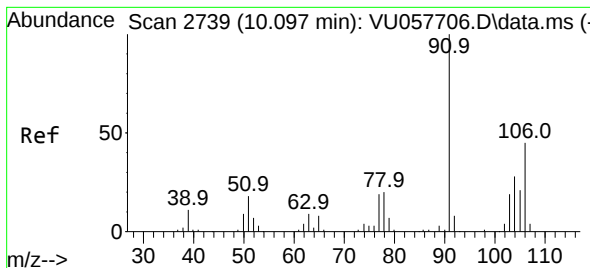
Tgt Ion: 91 Resp: 25613
Ion Ratio Lower Upper
91 100
106 29.2 21.3 39.5



#53
m,p-Xylene
Concen: 0.605 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.003 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Tgt Ion: 106 Resp: 5502
Ion Ratio Lower Upper
106 100
91 221.7 146.9 272.9





#54

o-Xylene

Concen: 0.571 ug/L

RT: 10.097 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

Instrument :

MSVOA_U

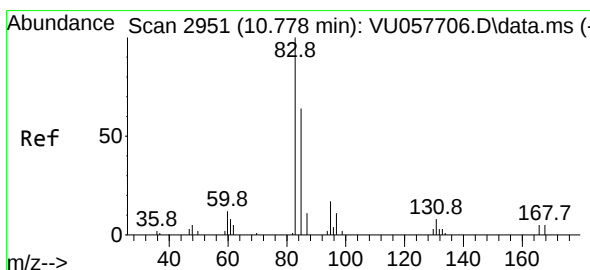
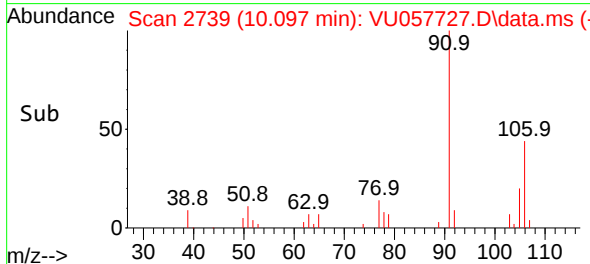
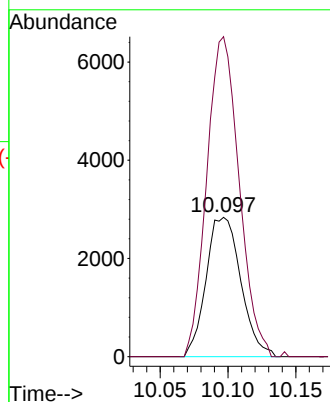
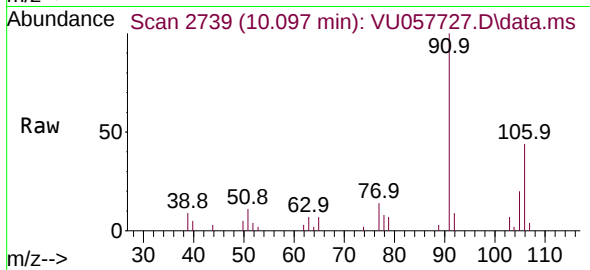
ClientSampleId :

Tgt Ion:106 Resp: 5067

Ion Ratio Lower Upper

106 100

91 229.6 158.1 293.5



#57

1,1,2,2-Tetrachloroethane

Concen: 0.206 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. -0.003 min

Lab File: VU057727.D

Acq: 29 Jan 2024 19:22

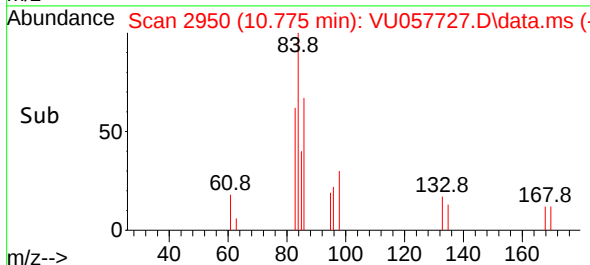
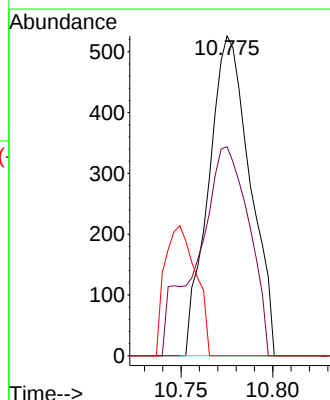
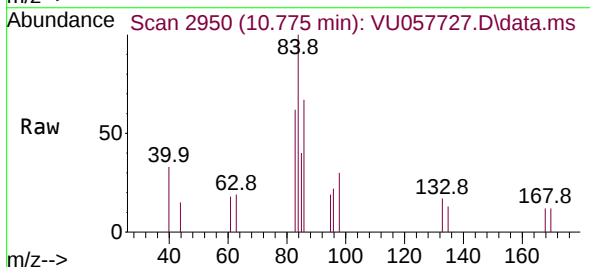
Tgt Ion: 83 Resp: 826

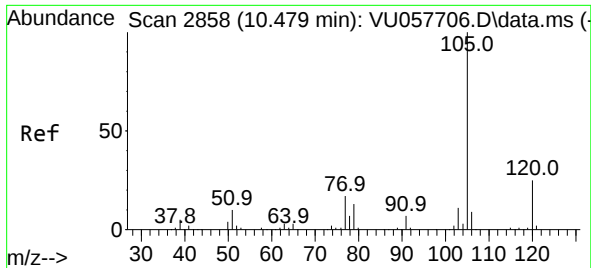
Ion Ratio Lower Upper

83 100

85 65.4 44.4 82.5

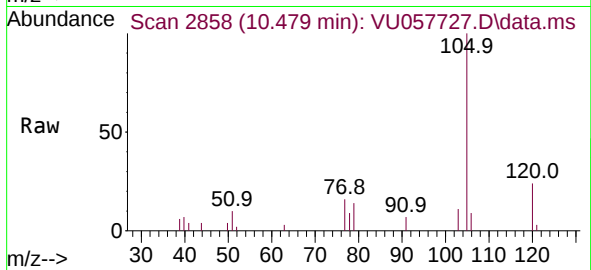
131 0.0 8.3 12.5#



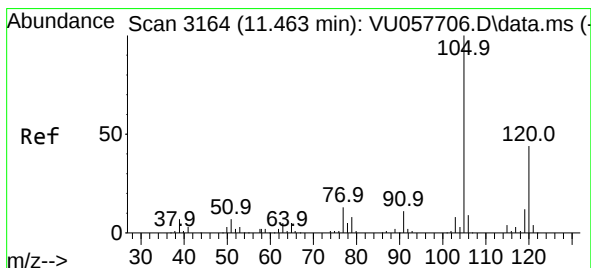
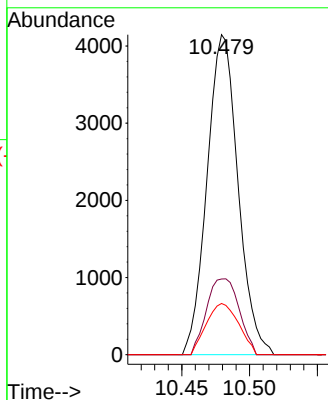
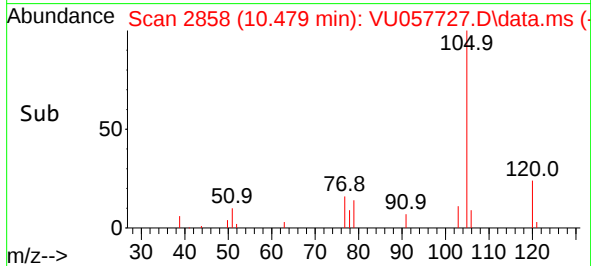


#60
Isopropylbenzene
Concen: 0.303 ug/L
RT: 10.479 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

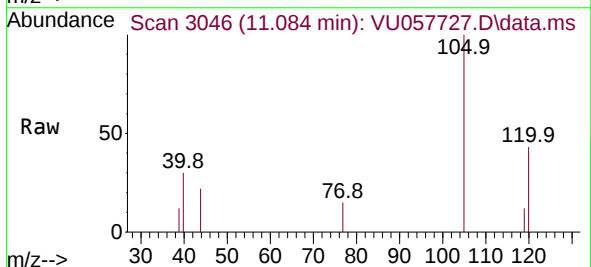
Instrument :
MSVOA_U
ClientSampleId :



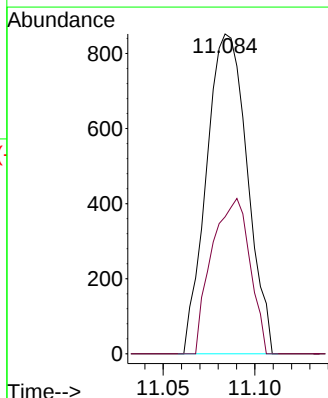
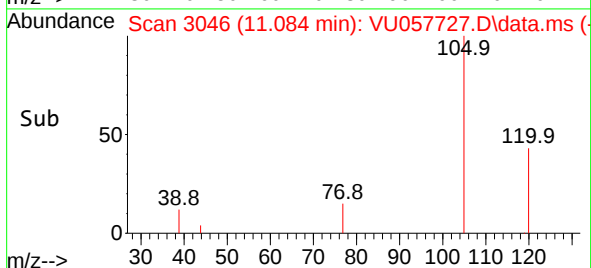
Tgt Ion:105 Resp: 6588
Ion Ratio Lower Upper
105 100
120 25.0 20.8 31.2
77 16.7 13.2 19.8

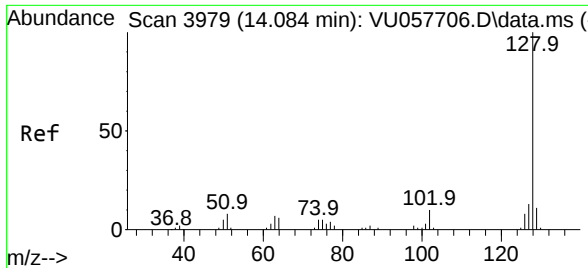


#63
1,2,4-Trimethylbenzene
Concen: 0.068 ug/L
RT: 11.084 min Scan# 3046
Delta R.T. -0.379 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22



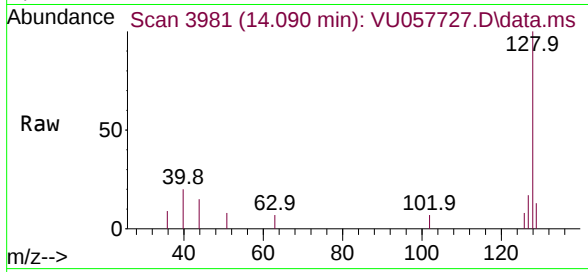
Tgt Ion:105 Resp: 1319
Ion Ratio Lower Upper
105 100
120 45.3 35.0 52.4





#71
Naphthalene
Concen: 0.396 ug/L
RT: 14.090 min Scan# 3981
Delta R.T. 0.006 min
Lab File: VU057727.D
Acq: 29 Jan 2024 19:22

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:	128	Resp:	2989
Ion	Ratio	Lower	Upper
128	100		
129	9.3	8.6	13.0
127	11.8	10.0	15.0

