

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW083122\
 Data File : VW027666.D
 Acq On : 01 Sep 2022 13:28
 Operator : SY/MD
 Sample : N4369-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 58 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 01 23:17:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR083122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Sep 01 07:36:37 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.593	114	156471	5.000	ug/L	-0.02
28) Chlorobenzene-d5	8.860	117	128577	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	50643	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.298	65	60503	3.559	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.200%
7) Chloroethane-d5	1.558	69	55110	3.875	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.400%
11) 1,1-Dichloroethene-d2	2.098	63	96464	2.899	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.000%#
20) 2-Butanone-d5	3.950	46	174461	60.703	ug/L	0.06
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.400%
24) Chloroform-d	4.349	84	134682	3.947	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.000%
26) 1,2-Dichloroethane-d4	5.027	65	75969	4.970	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.400%
32) Benzene-d6	5.034	84	245184	4.655	ug/L	-0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.200%
36) 1,2-Dichloropropane-d6	6.053	67	86314	5.298	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.000%
41) Toluene-d8	7.330	98	191102	4.190	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.800%
43) trans-1,3-Dichloroprop...	7.638	79	21263	4.237	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.800%
46) 2-Hexanone-d5	8.117	63	93066	49.313	ug/L	0.03
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.620%
56) 1,1,2,2-Tetrachloroeth...	10.220	84	50981	4.863	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	58941	5.199	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.230	50	979	0.048	ug/L	86
6) Bromomethane	1.510	94	624	0.068	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.101	101	1312	0.092	ug/L #	51
12) 1,1-Dichloroethene	2.105	96	1448	0.111	ug/L #	1
17) Methyl tert-butyl Ether	2.773	73	3413	0.122	ug/L #	65
18) trans-1,2-Dichloroethene	2.744	96	727	0.049	ug/L	96
23) Bromochloromethane	4.252	128	420	0.064	ug/L #	66
25) Chloroform	4.375	83	3711	0.122	ug/L	96
27) 1,2-Dichloroethane	5.121	62	956	0.058	ug/L #	89
29) 1,1,1-Trichloroethane	4.603	97	1321	0.059	ug/L #	82
31) Carbon tetrachloride	4.805	117	1220	0.064	ug/L	93
33) Benzene	5.082	78	2351	0.047	ug/L	100
35) Methylcyclohexane	6.053	83	21367	1.117	ug/L #	18
37) 1,2-Dichloropropane	6.053	63	10190	0.805	ug/L #	90
38) Bromodichloromethane	6.506	83	848	0.053	ug/L #	92
44) trans-1,3-Dichloropropene	7.638	75	1101	0.087	ug/L #	71
47) Tetrachloroethene	7.985	164	555	0.056	ug/L	94
49) Dibromochloromethane	8.265	129	489	0.051	ug/L #	62
50) 1,2-Dibromoethane	8.368	107	319	0.044	ug/L #	65

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

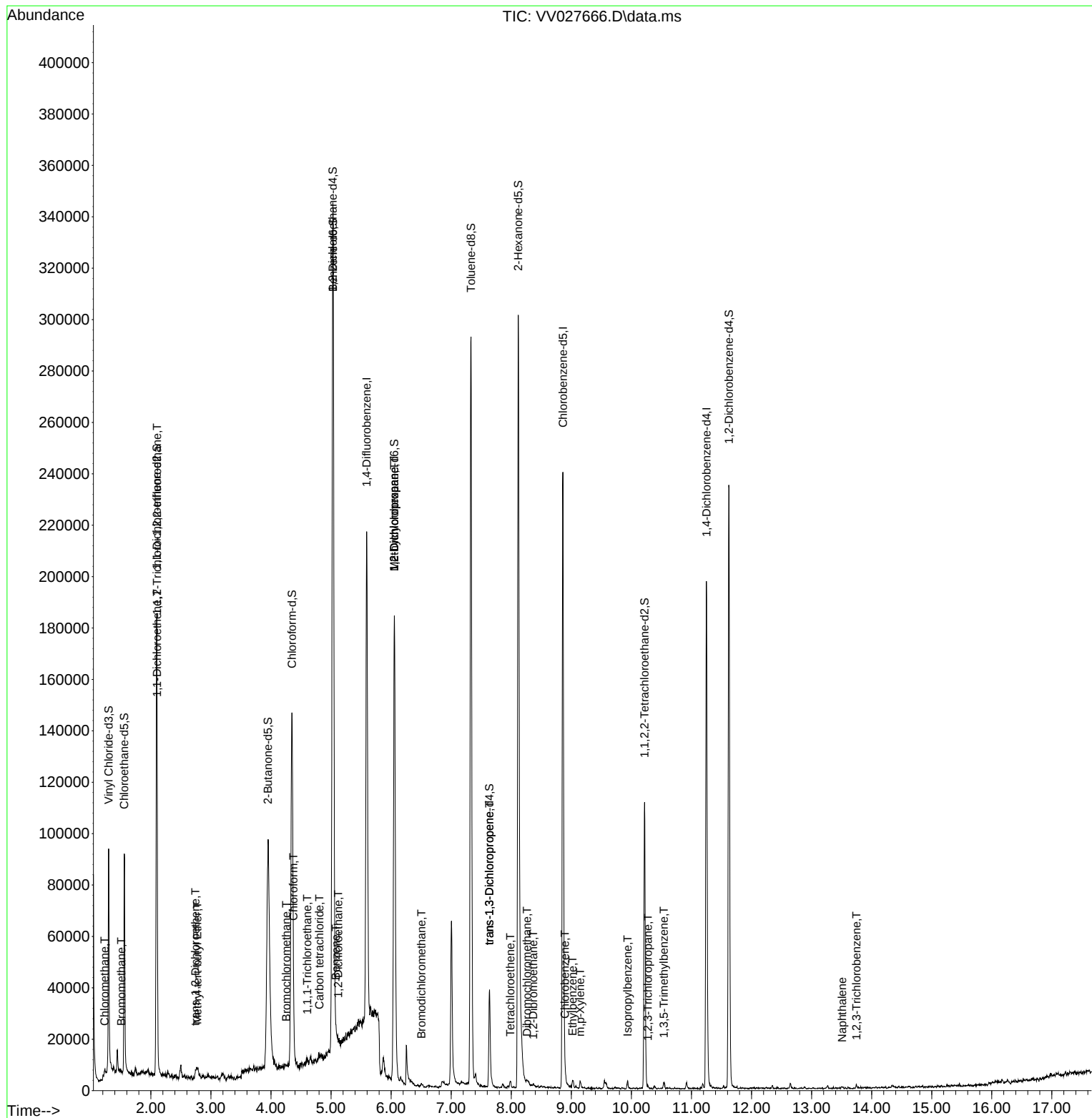
51) Chlorobenzene	8.895	112	1485	0.047	ug/L	87
52) Ethylbenzene	9.021	91	2111	0.042	ug/L	95
53) m,p-Xylene	9.146	106	813	0.042	ug/L #	56
60) Isopropylbenzene	9.937	105	1803	0.047	ug/L #	92
61) 1,2,3-Trichloropropane	10.275	75	347	0.068	ug/L #	7
62) 1,3,5-Trimethylbenzene	10.542	105	1706	0.163	ug/L	98
71) Naphthalene	13.509	128	835	0.054	ug/L #	68
72) 1,2,3-Trichlorobenzene	13.747	180	605	0.068	ug/L #	62

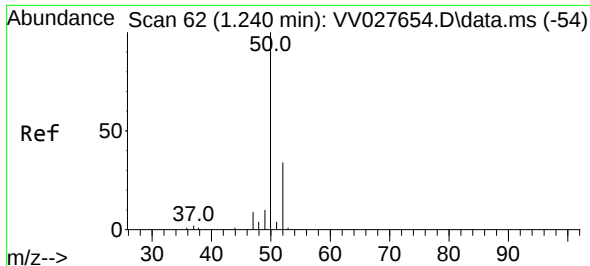
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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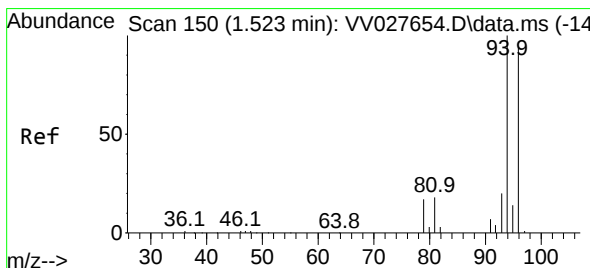
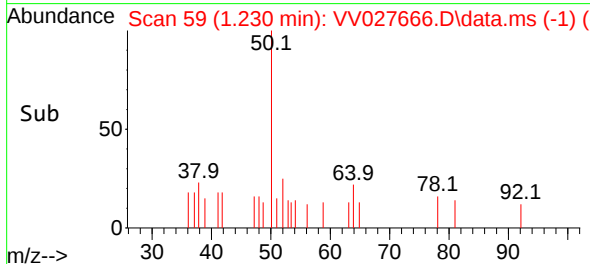
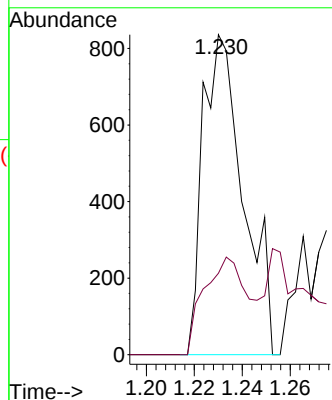
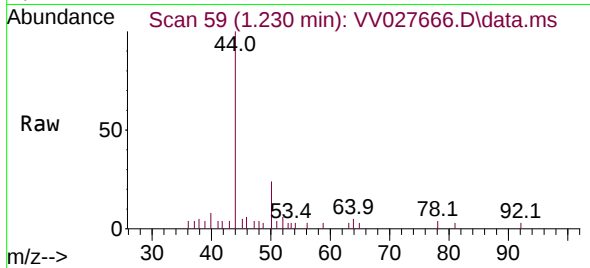




#3
Chloromethane
Concen: 0.048 ug/L
RT: 1.230 min Scan# 51
Delta R.T. -0.010 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

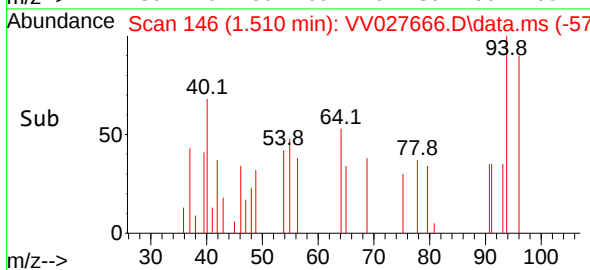
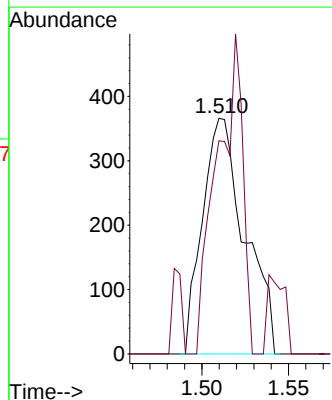
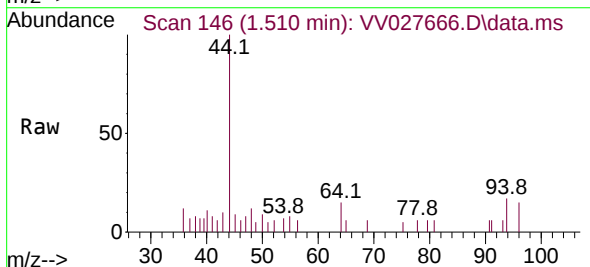
Instrument :
MSVOA_V
ClientSampleId :

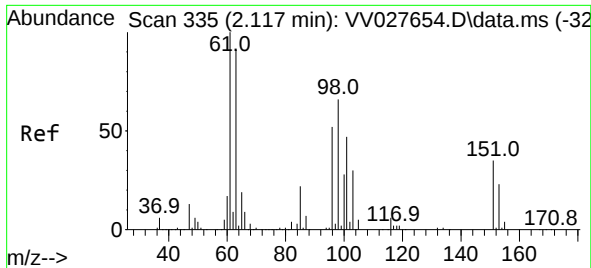
Tgt Ion: 50 Resp: 979
Ion Ratio Lower Upper
50 100
52 25.5 23.5 43.7



#6
Bromomethane
Concen: 0.068 ug/L
RT: 1.510 min Scan# 146
Delta R.T. -0.013 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

Tgt Ion: 94 Resp: 624
Ion Ratio Lower Upper
94 100
96 90.4 65.1 120.9

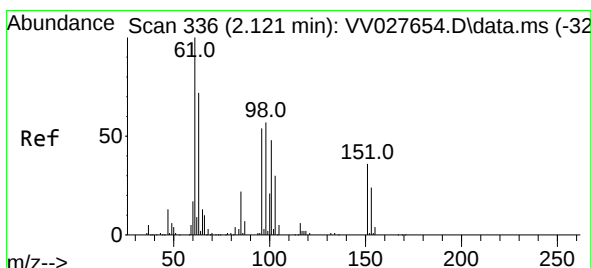
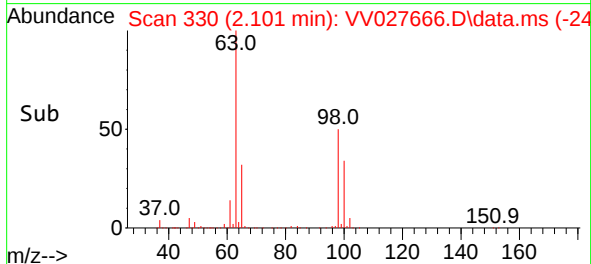
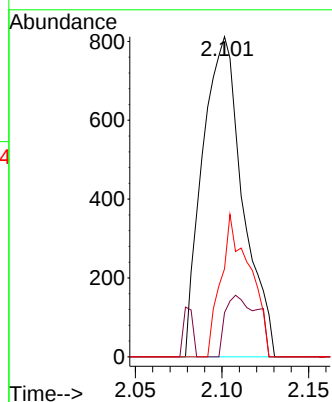
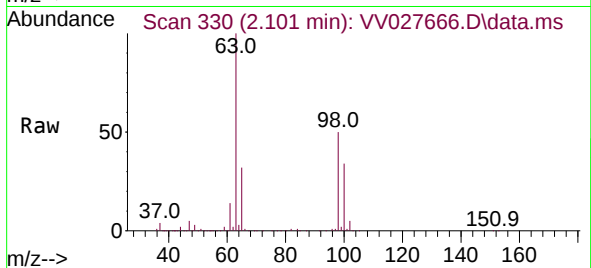




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.092 ug/L
 RT: 2.101 min Scan# 311
 Delta R.T. -0.016 min
 Lab File: VV027666.D
 Acq: 01 Sep 2022 13:28

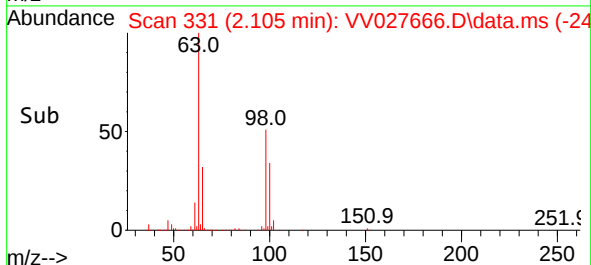
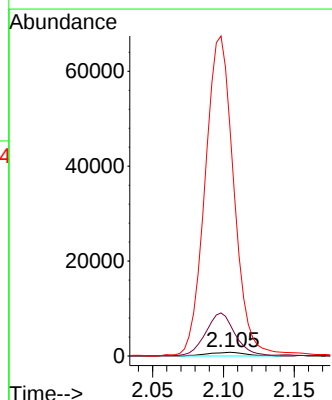
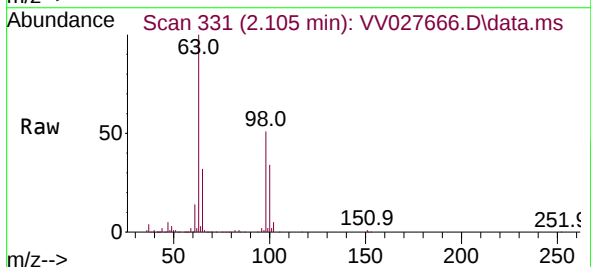
Instrument :
 MSVOA_V
 ClientSampleId :

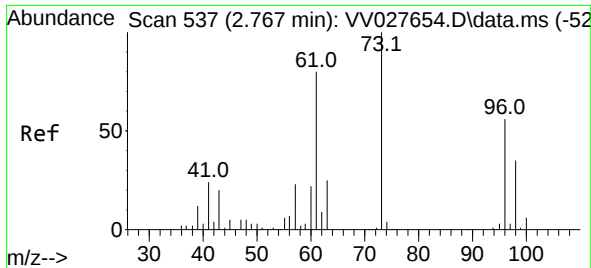
Tgt Ion:101 Resp: 1312
 Ion Ratio Lower Upper
 101 100
 85 15.2 36.7 55.1#
 151 32.0 60.9 91.3#



#12
 1,1-Dichloroethene
 Concen: 0.111 ug/L
 RT: 2.105 min Scan# 331
 Delta R.T. -0.016 min
 Lab File: VV027666.D
 Acq: 01 Sep 2022 13:28

Tgt Ion: 96 Resp: 1448
 Ion Ratio Lower Upper
 96 100
 61 871.8 134.3 249.3#
 63 6272.8 105.7 196.3#

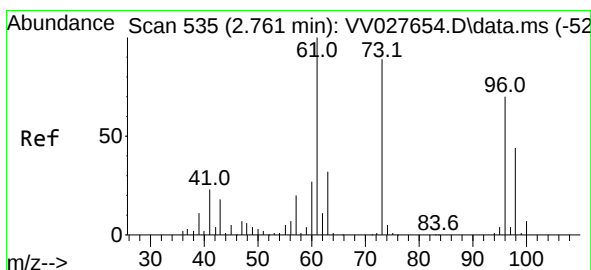
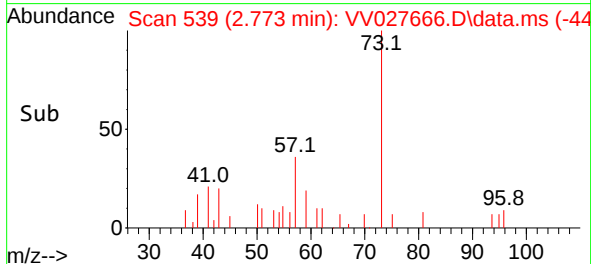
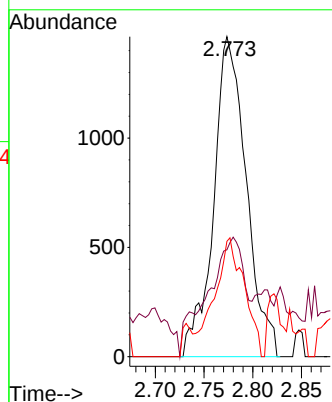
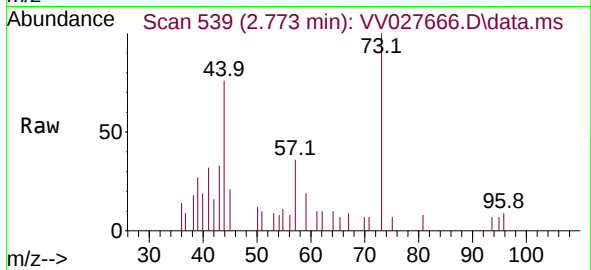




#17
Methyl tert-butyl Ether
Concen: 0.122 ug/L
RT: 2.773 min Scan# 51
Delta R.T. 0.006 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

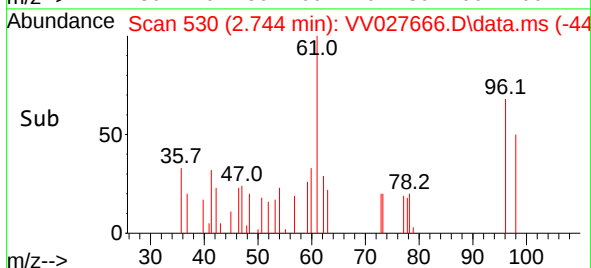
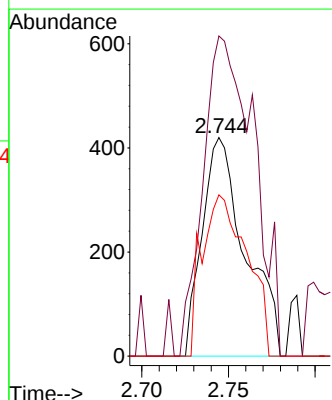
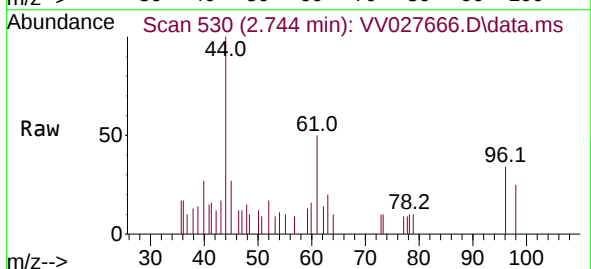
Instrument :
MSVOA_V
ClientSampleId :

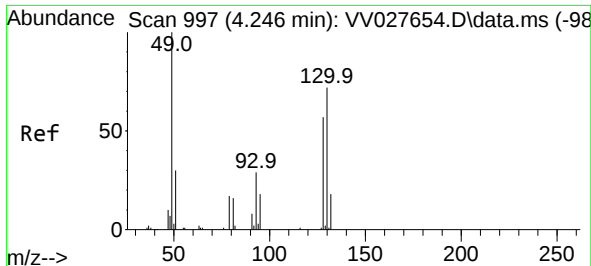
Tgt Ion: 73 Resp: 3413
Ion Ratio Lower Upper
73 100
43 43.4 16.5 24.7#
57 33.7 18.2 27.2#



#18
trans-1,2-Dichloroethene
Concen: 0.049 ug/L
RT: 2.744 min Scan# 530
Delta R.T. -0.016 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

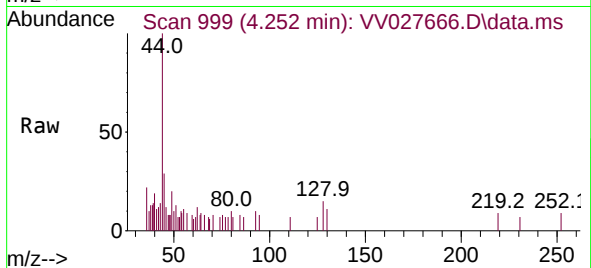
Tgt Ion: 96 Resp: 727
Ion Ratio Lower Upper
96 100
61 146.4 101.8 189.0
98 73.8 44.9 83.3



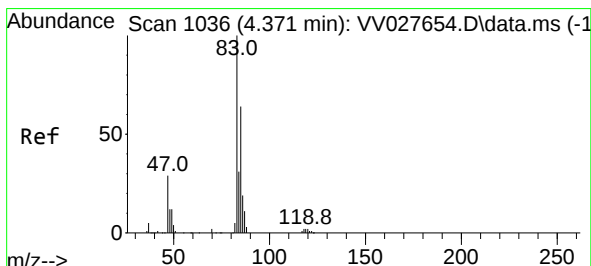
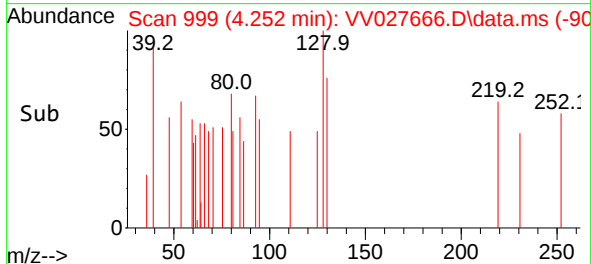
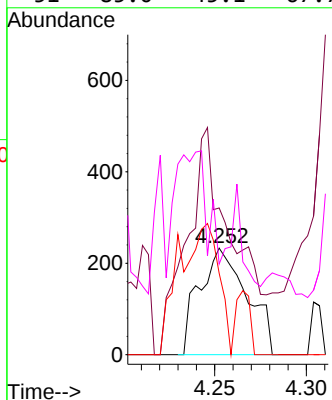


#23
Bromochloromethane
Concen: 0.064 ug/L
RT: 4.252 min Scan# 999
Delta R.T. 0.006 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

Instrument :
MSVOA_V
ClientSampleId :

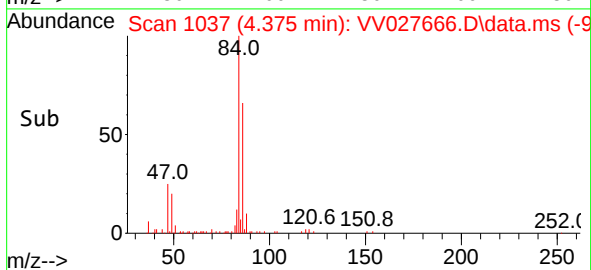
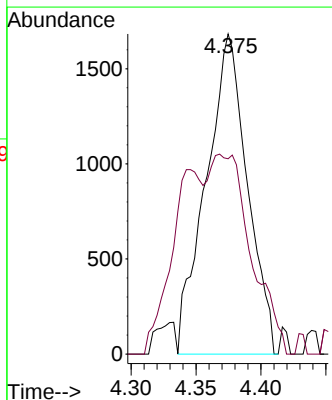
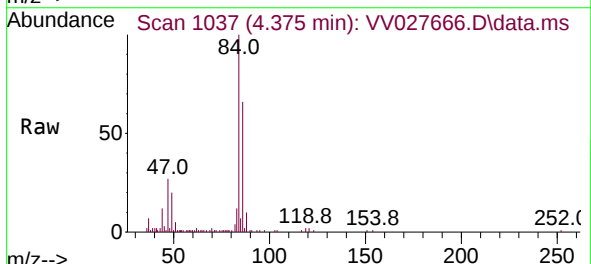


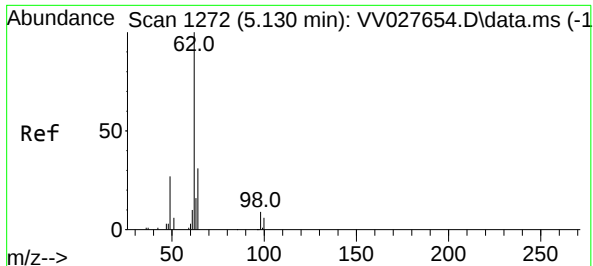
Tgt Ion:128 Resp: 420
Ion Ratio Lower Upper
128 100
49 137.8 120.1 223.1
130 76.4 89.0 165.4#
51 85.0 45.1 67.7#



#25
Chloroform
Concen: 0.122 ug/L
RT: 4.375 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

Tgt Ion: 83 Resp: 3711
Ion Ratio Lower Upper
83 100
85 61.0 44.7 83.1





#27

1,2-Dichloroethane

Concen: 0.058 ug/L

RT: 5.121 min Scan# 11

Delta R.T. -0.010 min

Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

Instrument :

MSVOA_V

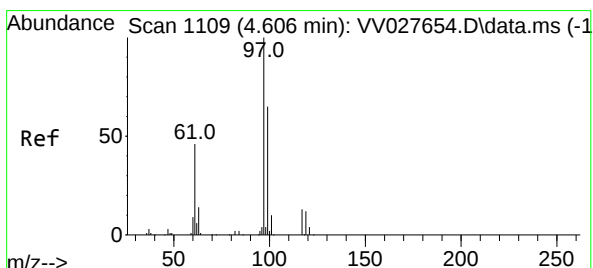
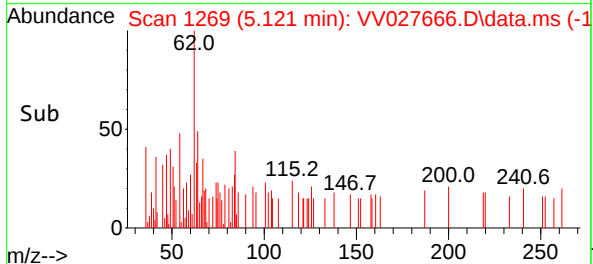
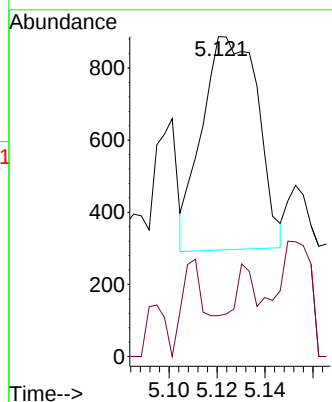
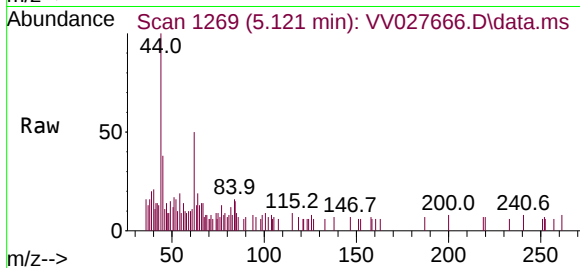
ClientSampleId :

Tgt Ion: 62 Resp: 956

Ion Ratio Lower Upper

62 100

98 12.7 7.0 10.6#



#29

1,1,1-Trichloroethane

Concen: 0.059 ug/L

RT: 4.603 min Scan# 1108

Delta R.T. -0.003 min

Lab File: VV027666.D

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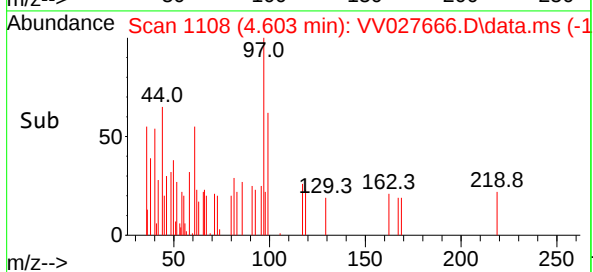
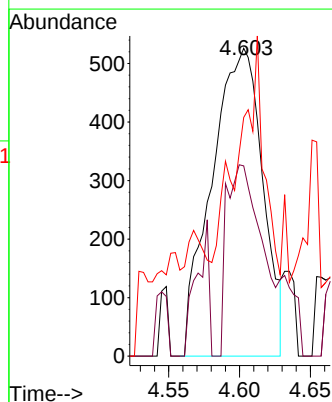
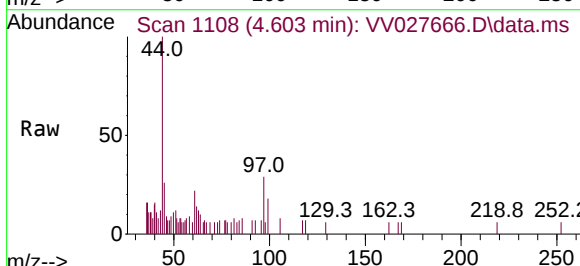
Tgt Ion: 97 Resp: 1321

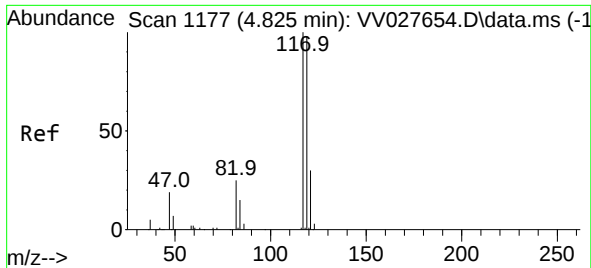
Ion Ratio Lower Upper

97 100

99 42.4 50.6 75.8#

61 48.1 36.1 54.1

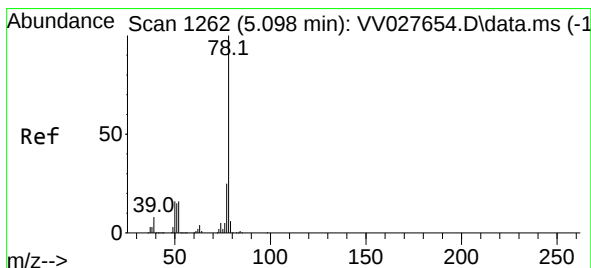
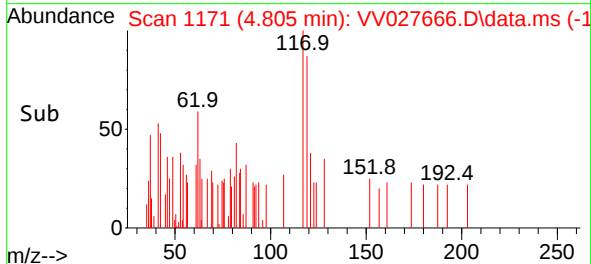
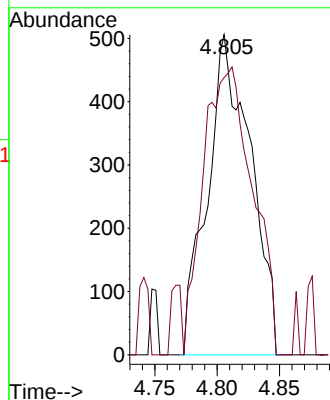
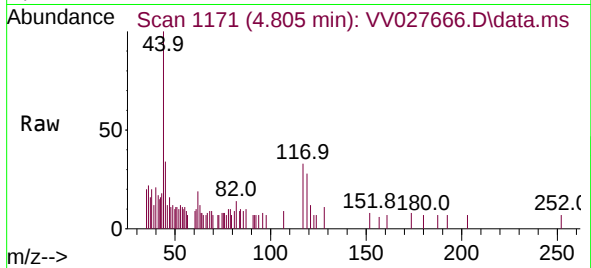




#31
Carbon tetrachloride
Concen: 0.064 ug/L
RT: 4.805 min Scan# 1177
Delta R.T. -0.019 min
Lab File: VV027666.D
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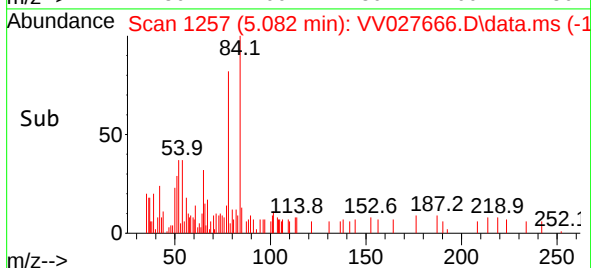
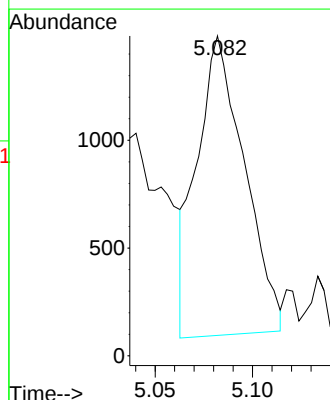
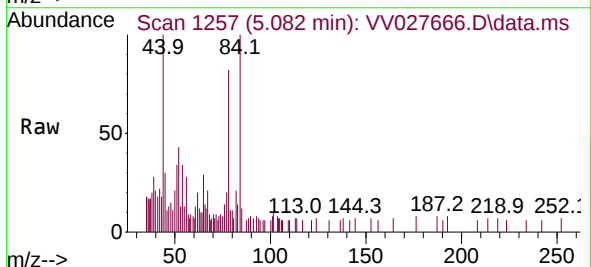
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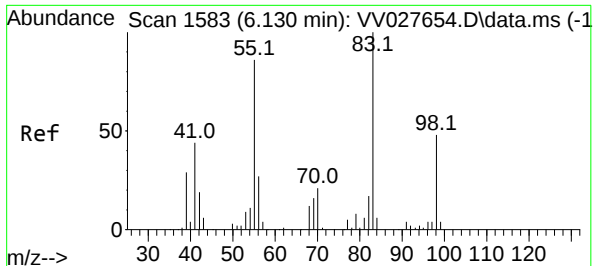
Tgt Ion:117 Resp: 1220
Ion Ratio Lower Upper
117 100
119 102.6 76.8 115.2



#33
Benzene
Concen: 0.047 ug/L
RT: 5.082 min Scan# 1257
Delta R.T. -0.016 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

Tgt Ion: 78 Resp: 2351





#35

Methylcyclohexane

Concen: 1.117 ug/L

RT: 6.053 min Scan# 1559

Delta R.T. -0.077 min

Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

Instrument :

MSVOA_V

ClientSampleId :

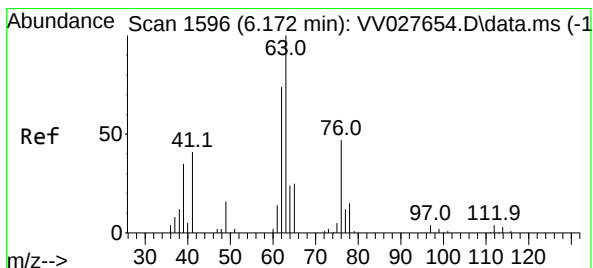
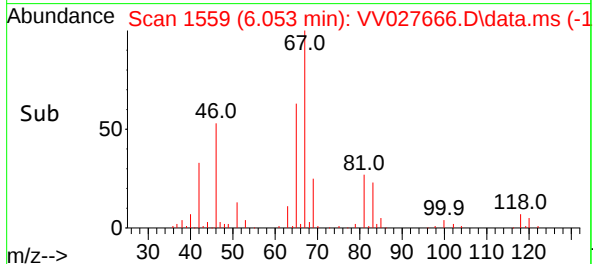
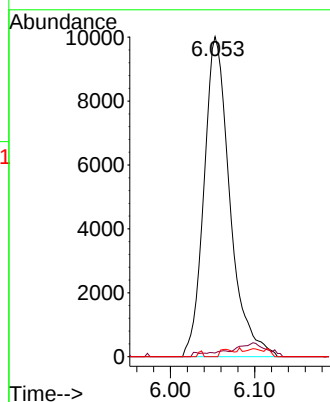
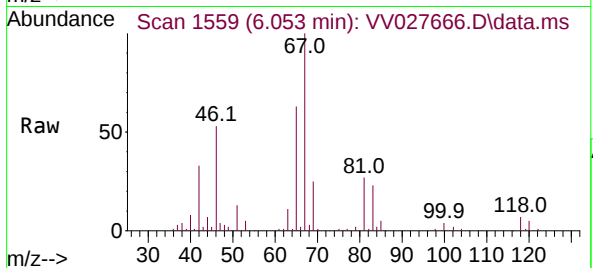
Tgt Ion: 83 Resp: 21367

Ion Ratio Lower Upper

83 100

55 1.2 66.0 99.0#

98 1.1 36.9 55.3#



#37

1,2-Dichloropropane

Concen: 0.805 ug/L

RT: 6.053 min Scan# 1559

Delta R.T. -0.119 min

Lab File: VV027666.D

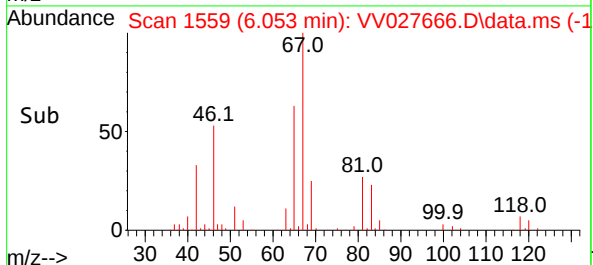
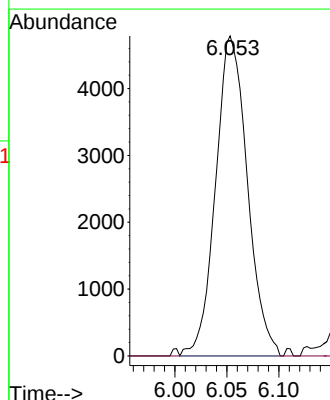
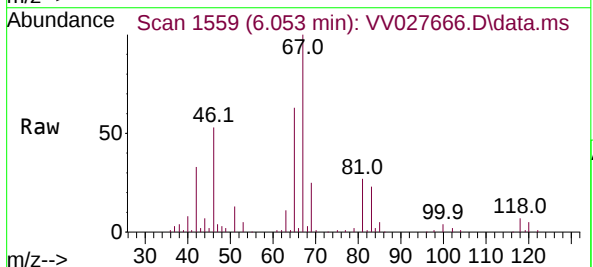
Acq: 01 Sep 2022 13:28

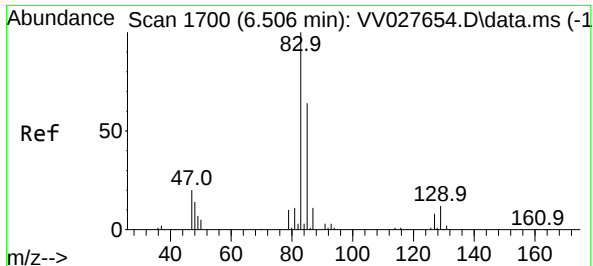
Tgt Ion: 63 Resp: 10190

Ion Ratio Lower Upper

63 100

112 0.2 2.9 4.3#





#38

Bromodichloromethane

Concen: 0.053 ug/L

RT: 6.506 min Scan# 1

Delta R.T. 0.000 min

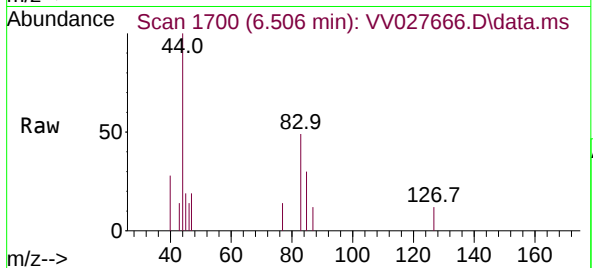
Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

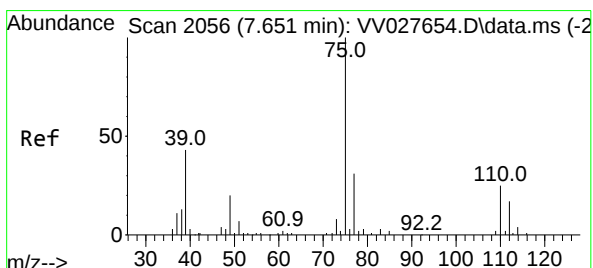
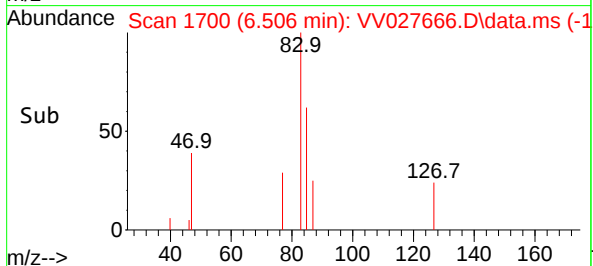
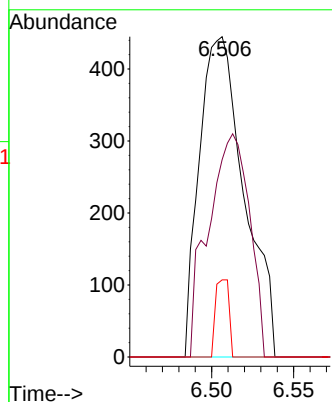
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	83	Resp:	848
Ion	Ratio	Lower	Upper
83	100		
85	61.6	45.2	84.0
127	24.0	7.0	10.6#



#44

trans-1,3-Dichloropropene

Concen: 0.087 ug/L

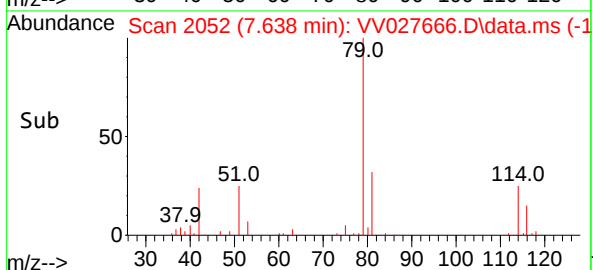
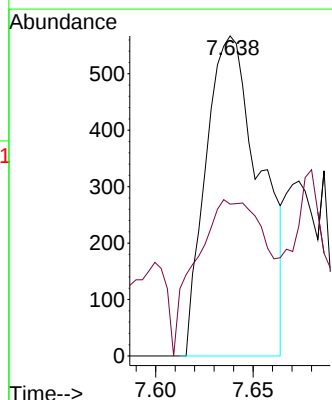
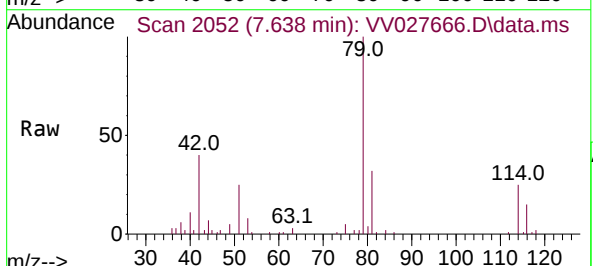
RT: 7.638 min Scan# 2052

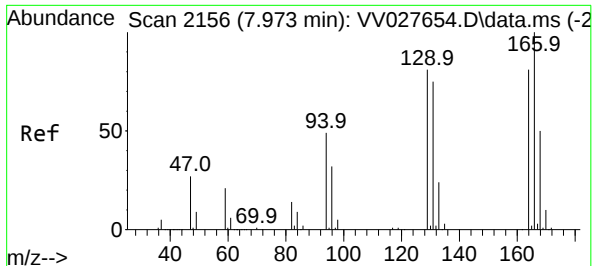
Delta R.T. -0.013 min

Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

Tgt Ion:	75	Resp:	1101
Ion	Ratio	Lower	Upper
75	100		
77	47.4	22.0	41.0#





#47

Tetrachloroethene

Concen: 0.056 ug/L

RT: 7.985 min Scan# 2156

Delta R.T. 0.013 min

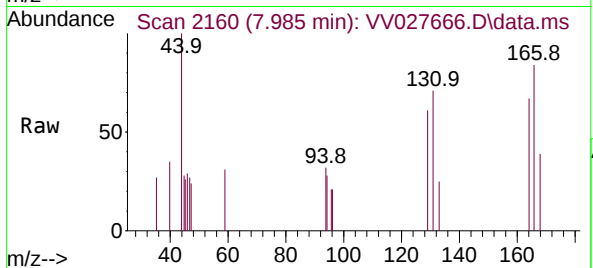
Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 555

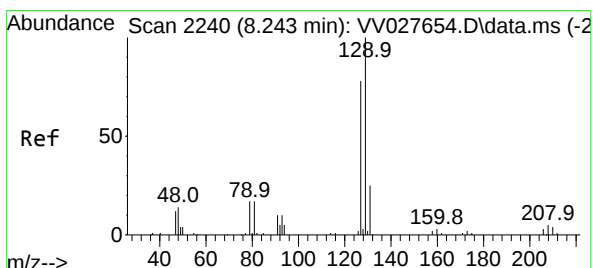
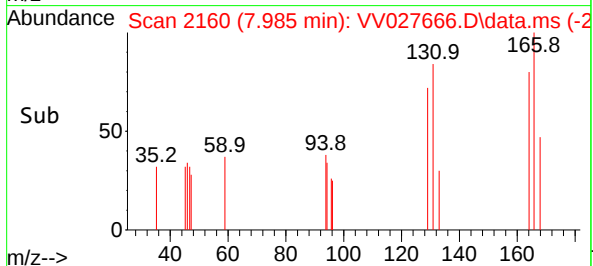
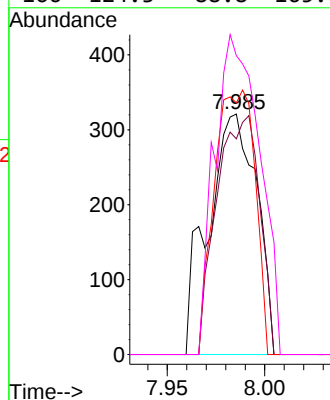
Ion Ratio Lower Upper

164 100

129 89.7 65.9 122.3

131 104.7 64.5 119.7

166 124.3 88.8 165.0



#49

Dibromochloromethane

Concen: 0.051 ug/L

RT: 8.265 min Scan# 2247

Delta R.T. 0.023 min

Lab File: VV027666.D

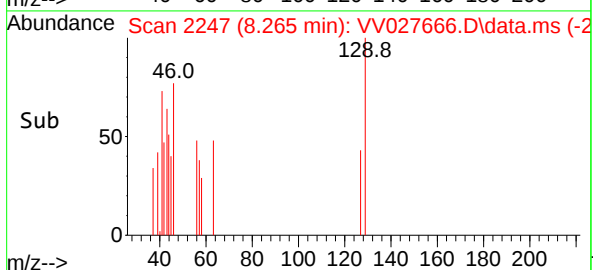
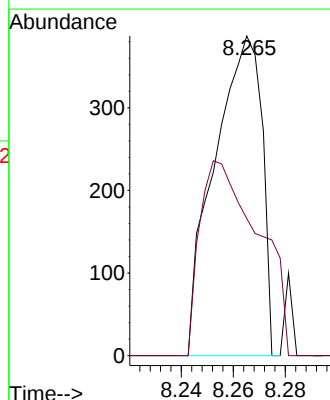
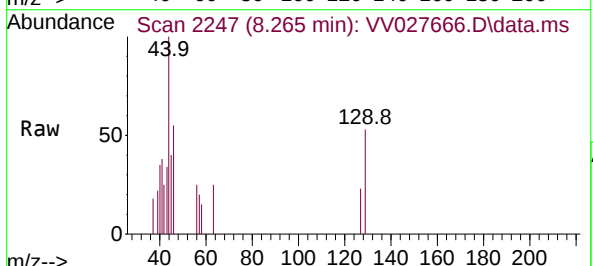
Acq: 01 Sep 2022 13:28

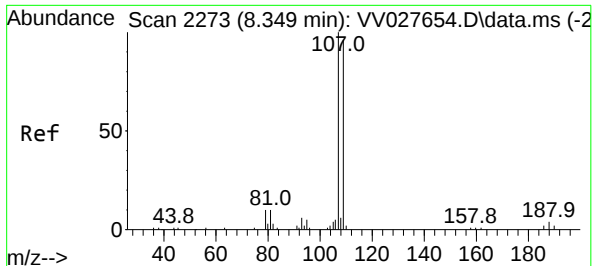
Tgt Ion:129 Resp: 489

Ion Ratio Lower Upper

129 100

127 42.9 52.4 97.4#





#50

1,2-Dibromoethane

Concen: 0.044 ug/L

RT: 8.368 min Scan# 21

Delta R.T. 0.019 min

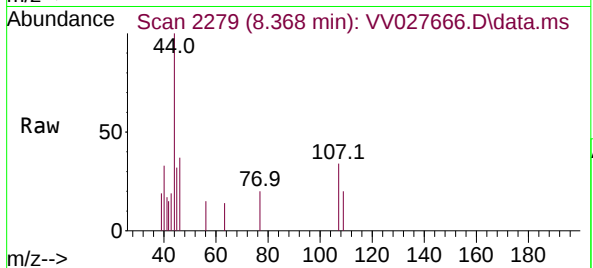
Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

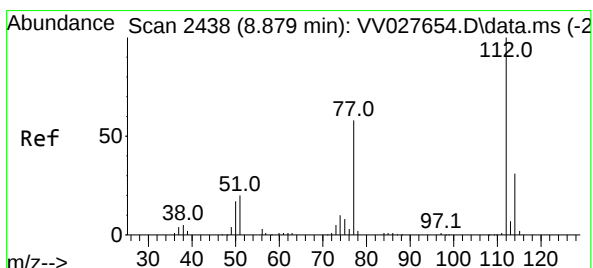
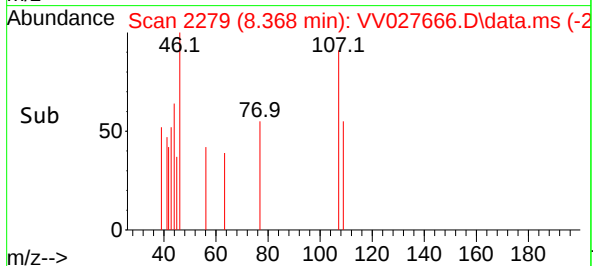
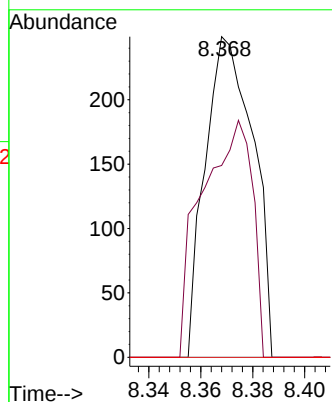
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	107	Resp:	319
Ion	Ratio	Lower	Upper
107	100		
109	59.8	66.2	123.0#
188	0.0	2.6	3.8#



#51

Chlorobenzene

Concen: 0.047 ug/L

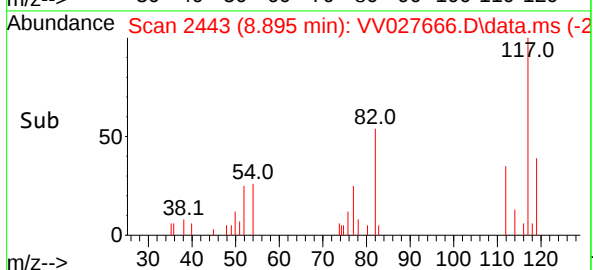
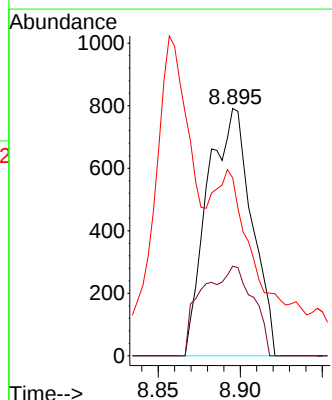
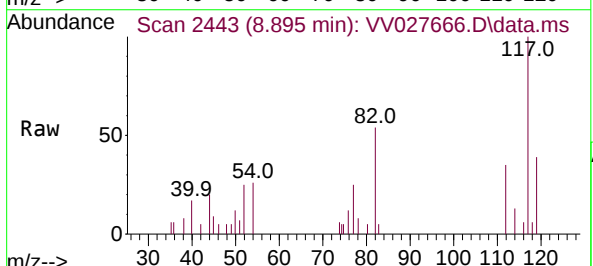
RT: 8.895 min Scan# 2443

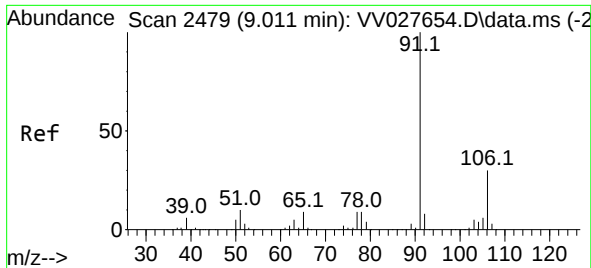
Delta R.T. 0.016 min

Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

Tgt Ion:	112	Resp:	1485
Ion	Ratio	Lower	Upper
112	100		
114	36.3	22.3	41.3
77	71.9	48.5	72.7

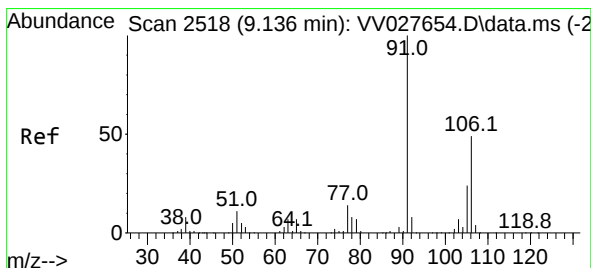
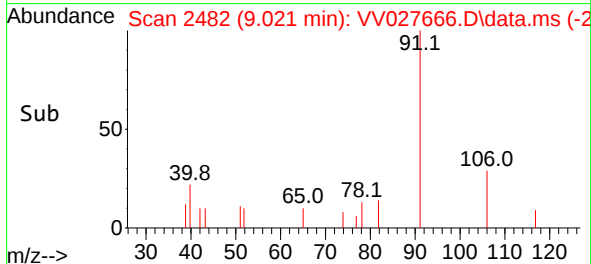
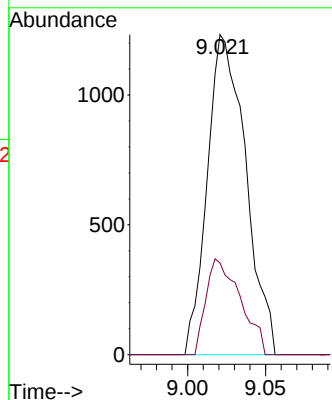
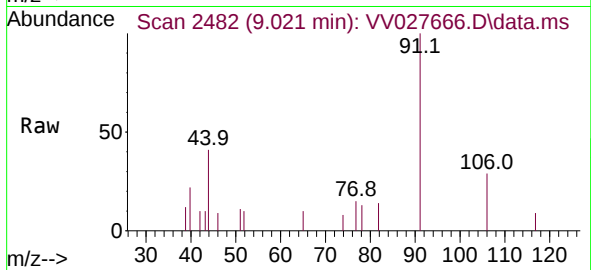




#52
Ethylbenzene
Concen: 0.042 ug/L
RT: 9.021 min Scan# 2479
Delta R.T. 0.010 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

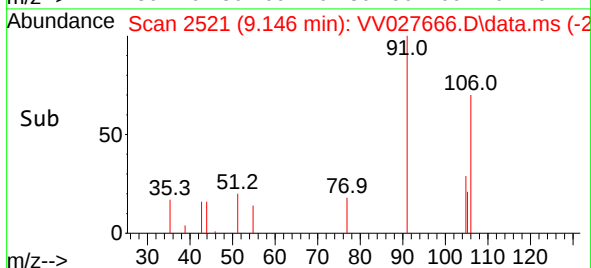
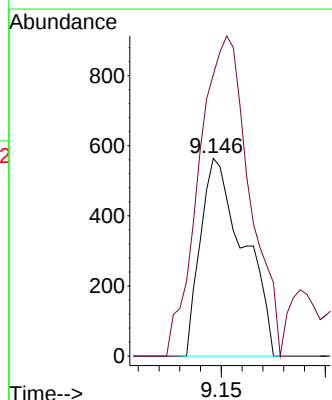
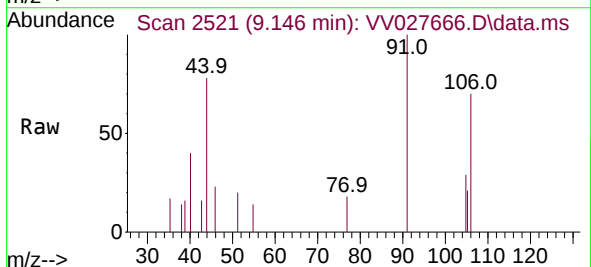
Instrument :
MSVOA_V
ClientSampleId :

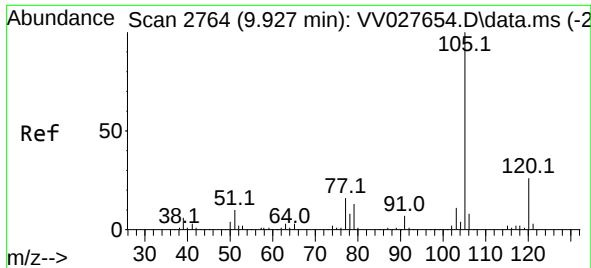
Tgt Ion: 91 Resp: 2111
Ion Ratio Lower Upper
91 100
106 28.7 21.9 40.7



#53
m,p-Xylene
Concen: 0.042 ug/L
RT: 9.146 min Scan# 2521
Delta R.T. 0.010 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

Tgt Ion: 106 Resp: 813
Ion Ratio Lower Upper
106 100
91 142.4 147.3 273.5#

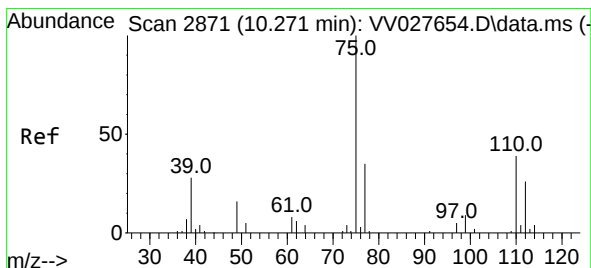
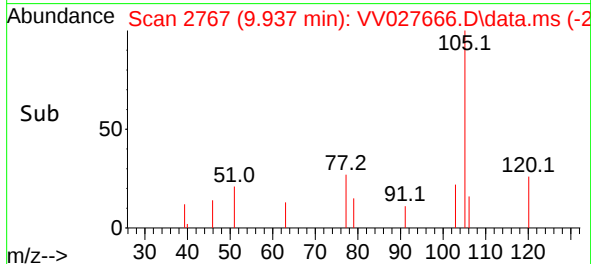
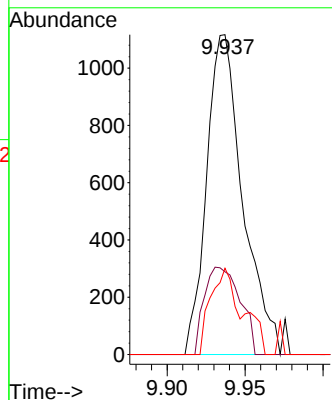
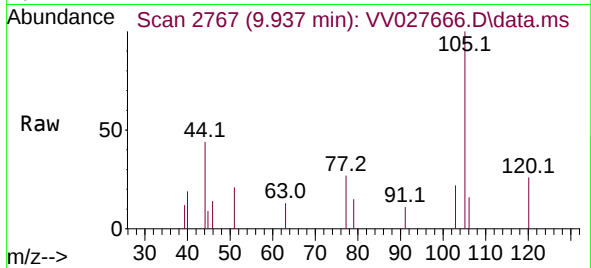




#60
Isopropylbenzene
Concen: 0.047 ug/L
RT: 9.937 min Scan# 21
Delta R.T. 0.010 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

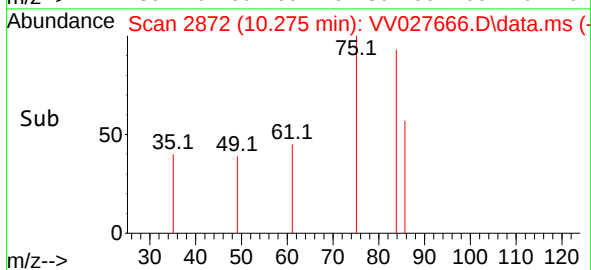
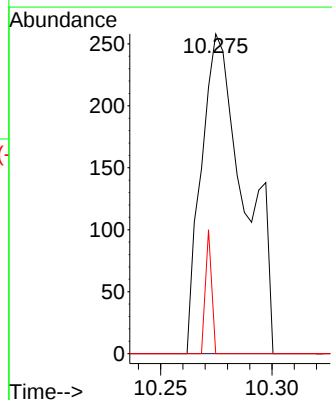
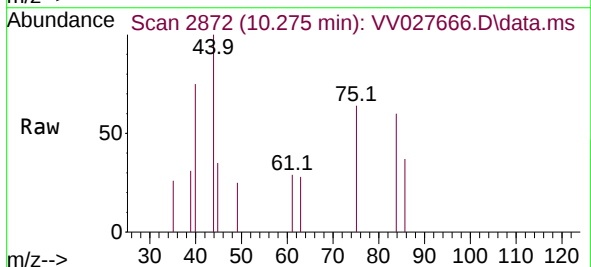
Instrument :
MSVOA_V
ClientSampleId :

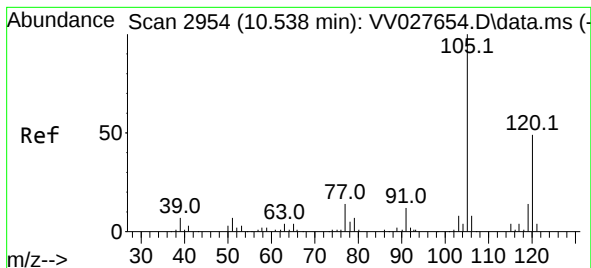
Tgt Ion:105 Resp: 1803
Ion Ratio Lower Upper
105 100
120 27.0 21.0 31.4
77 23.8 12.7 19.1#



#61
1,2,3-Trichloropropane
Concen: 0.068 ug/L
RT: 10.275 min Scan# 2872
Delta R.T. 0.003 min
Lab File: VV027666.D
Acq: 01 Sep 2022 13:28

Tgt Ion: 75 Resp: 347
Ion Ratio Lower Upper
75 100
77 110.4 25.8 38.6#
110 5.5 29.8 44.8#





#62

1,3,5-Trimethylbenzene

Concen: 0.163 ug/L

RT: 10.542 min Scan# 2954

Delta R.T. 0.003 min

Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

Instrument :

MSVOA_V

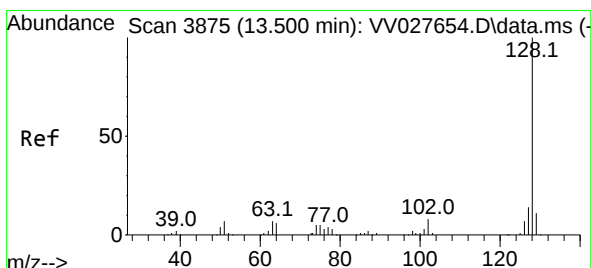
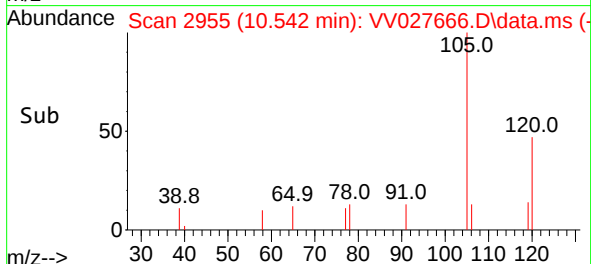
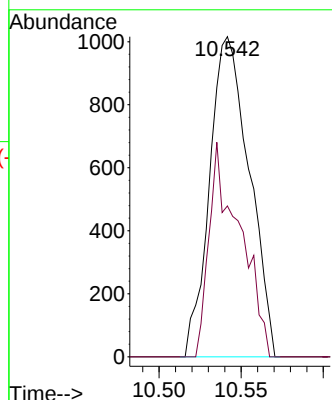
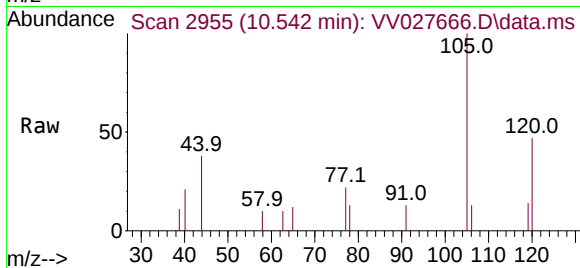
ClientSampleId :

Tgt Ion:105 Resp: 1706

Ion Ratio Lower Upper

105 100

120 52.1 40.4 60.6



#71

Naphthalene

Concen: 0.054 ug/L

RT: 13.509 min Scan# 3878

Delta R.T. 0.010 min

Lab File: VV027666.D

Acq: 01 Sep 2022 13:28

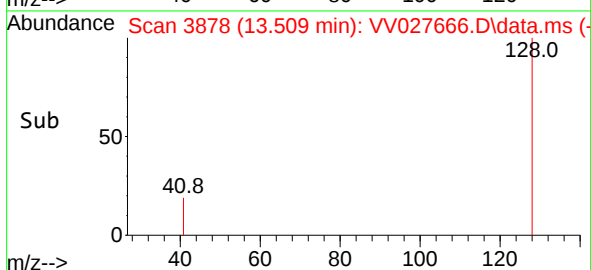
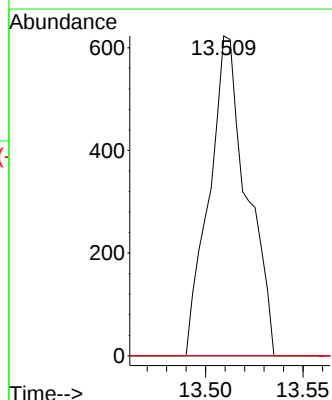
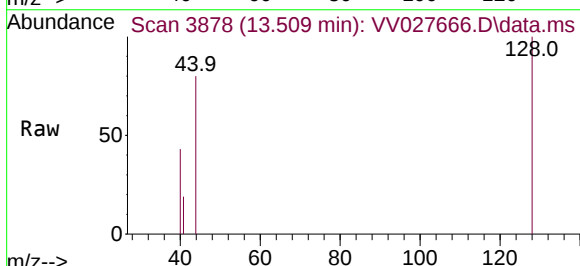
Tgt Ion:128 Resp: 835

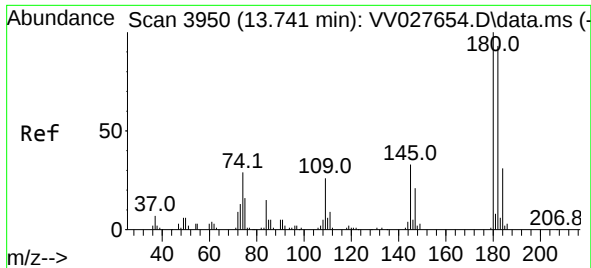
Ion Ratio Lower Upper

128 100

129 0.0 8.9 13.3#

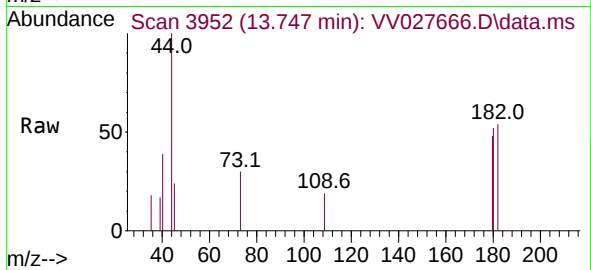
127 0.0 10.9 16.3#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.068 ug/L
 RT: 13.747 min Scan# 3952
 Delta R.T. 0.006 min
 Lab File: VV027666.D
 Acq: 01 Sep 2022 13:28

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:180 Resp: 605
 Ion Ratio Lower Upper
 180 100
 182 62.8 77.1 115.7#
 145 7.4 27.4 41.0#

