

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW091622\
 Data File : VW027885.D
 Acq On : 16 Sep 2022 16:51
 Operator : SY/MD
 Sample : N4652-01DL 40X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 16 22:09:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR090622WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 16 22:04:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	135854	5.000	ug/L	# 0.00
28) Chlorobenzene-d5	8.850	117	131907	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	66843	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	52456	5.858	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	117.200%
7) Chloroethane-d5	1.568	69	39244	5.166	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.400%
11) 1,1-Dichloroethene-d2	2.108	63	74987	3.946	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.000%
20) 2-Butanone-d5	3.896	46	71838	36.198	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	72.400%
24) Chloroform-d	4.346	84	86419	4.713	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.200%
26) 1,2-Dichloroethane-d4	5.031	65	43539	4.459	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.200%
32) Benzene-d6	5.047	84	156935	4.101	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.000%
36) 1,2-Dichloropropane-d6	6.069	67	41118	3.670	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	73.400%
41) Toluene-d8	7.313	98	135631	4.215	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.200%
43) trans-1,3-Dichloroprop...	7.622	79	16013	4.260	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.200%
46) 2-Hexanone-d5	8.088	63	49381	35.344	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	70.680%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	27682	3.848	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	77.000%
66) 1,2-Dichlorobenzene-d4	11.622	152	50642	4.612	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.200%
Target Compounds						
						Qvalue
3) Chloromethane	1.240	50	627	0.052	ug/L	# 77
5) Vinyl chloride	1.311	62	23288	1.904	ug/L	99
6) Bromomethane	1.526	94	649	0.099	ug/L	97
8) Chloroethane	1.584	64	94391	13.439	ug/L	96
12) 1,1-Dichloroethene	2.114	96	2233	0.248	ug/L	# 1
16) Methylene chloride	2.507	84	6497	0.560	ug/L	85
18) trans-1,2-Dichloroethene	2.761	96	1839	0.193	ug/L	83
19) 1,1-Dichloroethane	3.188	63	173585	9.728	ug/L	98
22) cis-1,2-Dichloroethene	3.908	96	78785	7.603	ug/L	# 83
27) 1,2-Dichloroethane	5.150	62	711	0.059	ug/L	# 75
29) 1,1,1-Trichloroethane	4.603	97	111891	5.515	ug/L	96
31) Carbon tetrachloride	4.603	117	13961	0.810	ug/L	96
37) 1,2-Dichloropropane	6.069	63	5406	0.523	ug/L	# 85
42) Toluene	7.391	91	33292	0.789	ug/L	100
47) Tetrachloroethene	7.976	164	3346	0.382	ug/L	93
49) Dibromochloromethane	7.976	129	3533	0.415	ug/L	# 10
52) Ethylbenzene	9.014	91	8303	0.190	ug/L	90
53) m,p-Xylene	9.140	106	6081	0.353	ug/L	92
54) o-Xylene	9.548	106	4249	0.259	ug/L	99

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

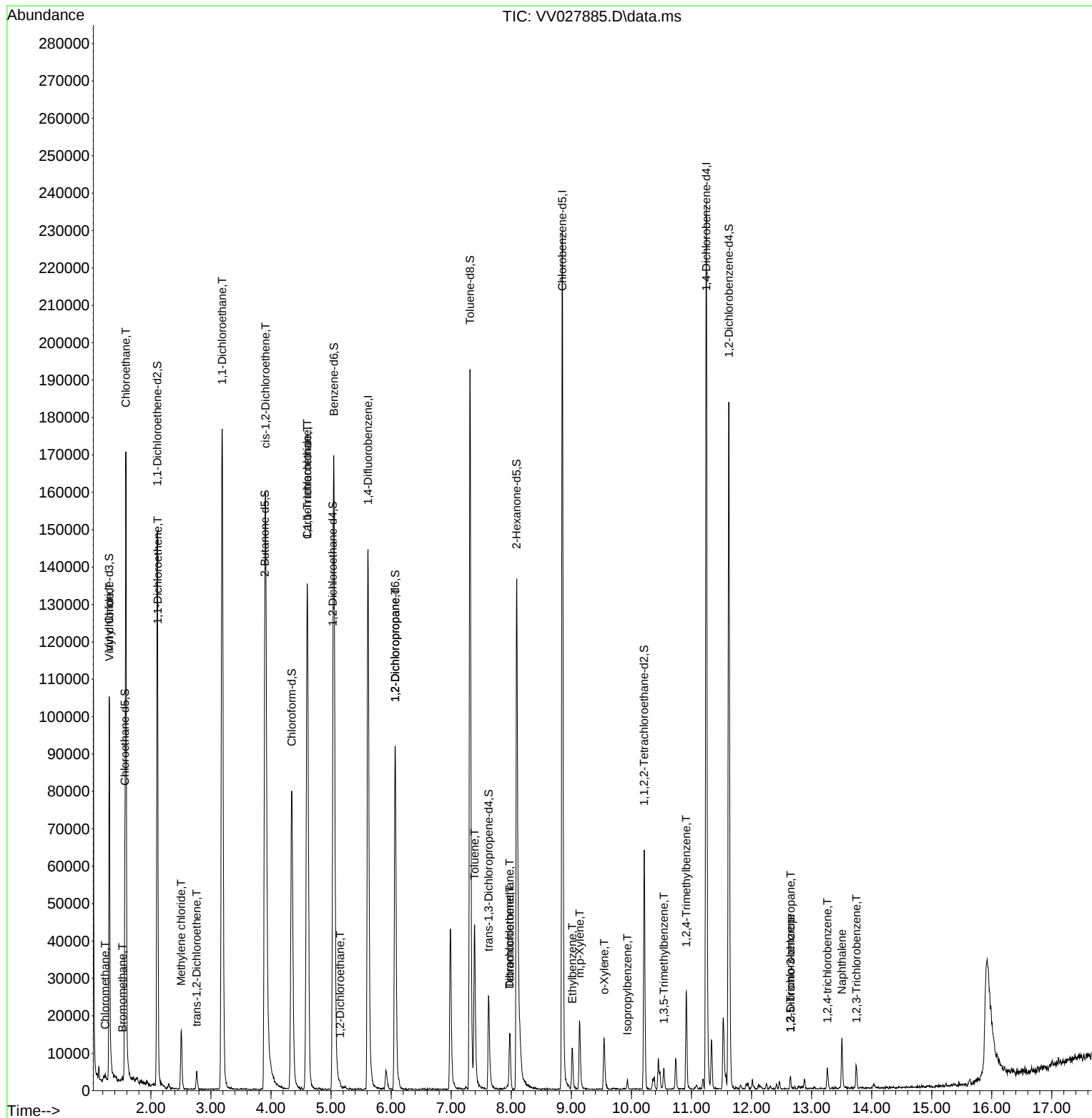
60) Isopropylbenzene	9.934	105	1892	0.045	ug/L #	91
62) 1,3,5-Trimethylbenzene	10.538	105	3489	0.296	ug/L	96
63) 1,2,4-Trimethylbenzene	10.915	105	15229	0.455	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.651	75	176	0.155	ug/L #	1
69) 1,3,5-Trichlorobenzene	12.648	180	1236	0.077	ug/L #	79
70) 1,2,4-trichlorobenzene	13.262	180	2104	0.166	ug/L	96
71) Naphthalene	13.506	128	11298	0.567	ug/L	98
72) 1,2,3-Trichlorobenzene	13.747	180	2135	0.189	ug/L	93

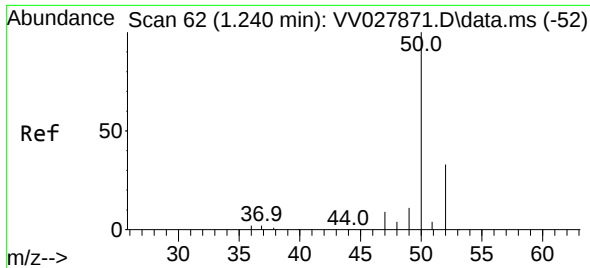
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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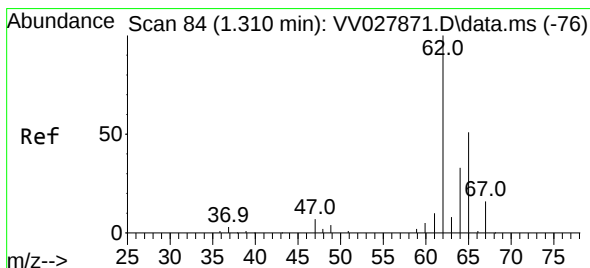
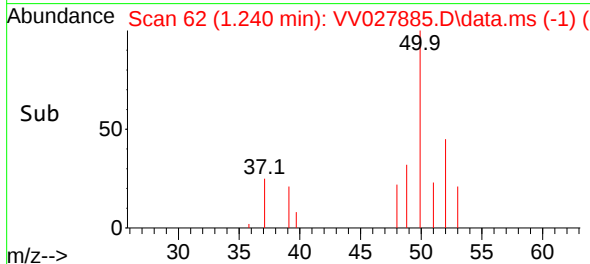
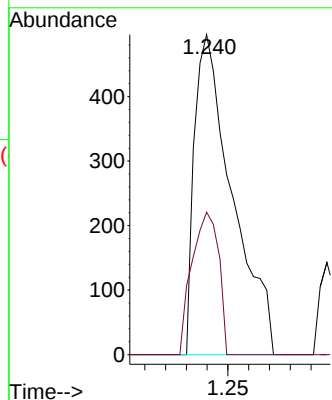
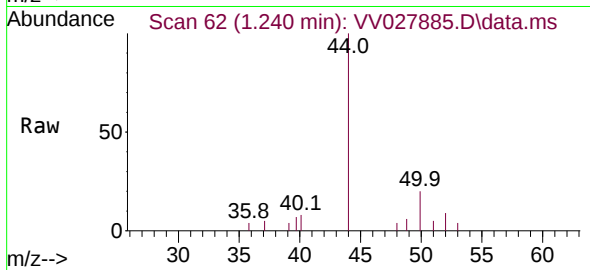




#3
Chloromethane
Concen: 0.052 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.000 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

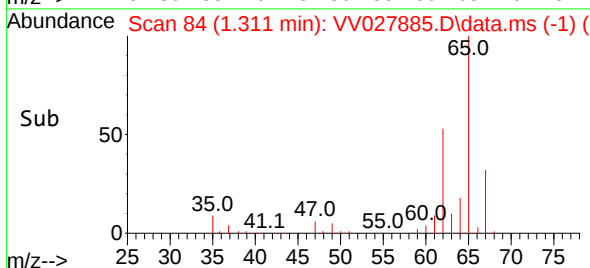
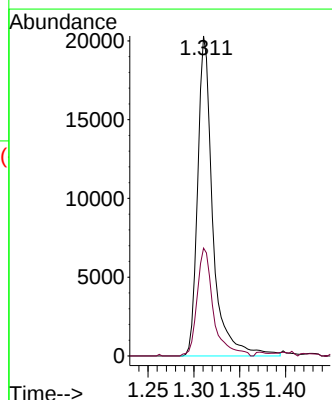
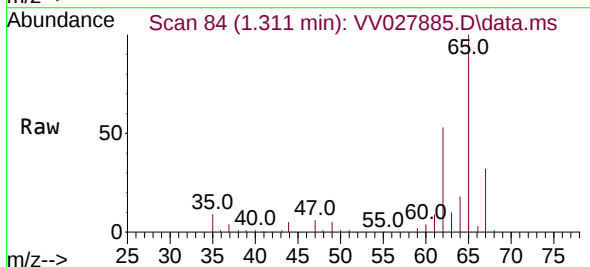
Instrument :
MSVOA_V
ClientSampleId :

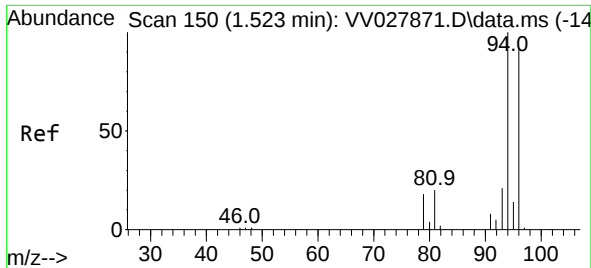
Tgt Ion: 50 Resp: 627
Ion Ratio Lower Upper
50 100
52 44.6 22.1 41.1#



#5
Vinyl chloride
Concen: 1.904 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.000 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

Tgt Ion: 62 Resp: 23288
Ion Ratio Lower Upper
62 100
64 33.7 23.2 43.2

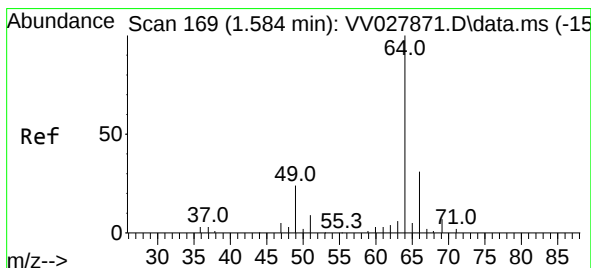
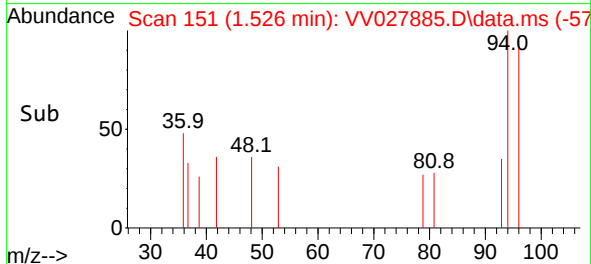
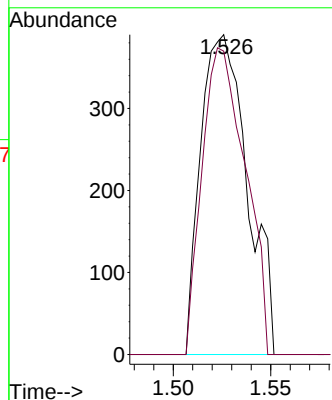
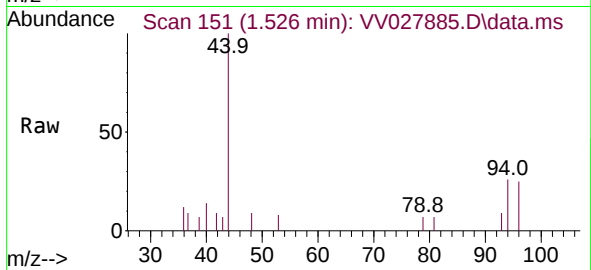




#6
Bromomethane
Concen: 0.099 ug/L
RT: 1.526 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

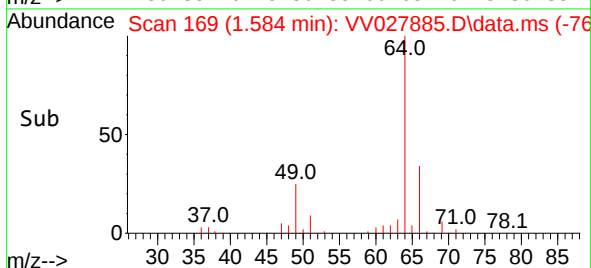
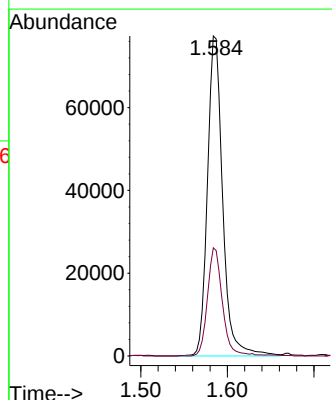
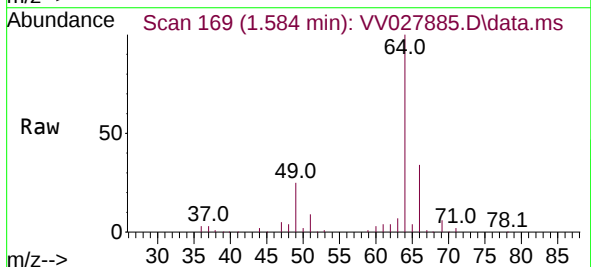
Instrument :
MSVOA_V
ClientSampleId :

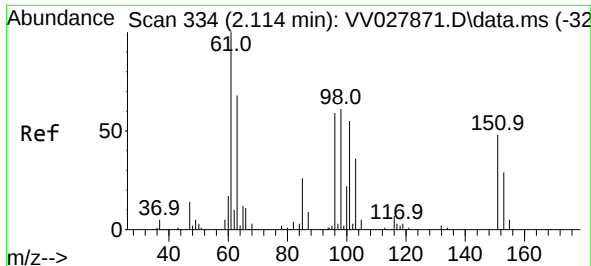
Tgt Ion: 94 Resp: 649
Ion Ratio Lower Upper
94 100
96 94.9 64.2 119.2



#8
Chloroethane
Concen: 13.439 ug/L
RT: 1.584 min Scan# 169
Delta R.T. 0.000 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

Tgt Ion: 64 Resp: 94391
Ion Ratio Lower Upper
64 100
66 33.8 22.1 41.1





#12

1,1-Dichloroethene

Concen: 0.248 ug/L

RT: 2.114 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

ClientSampleId :

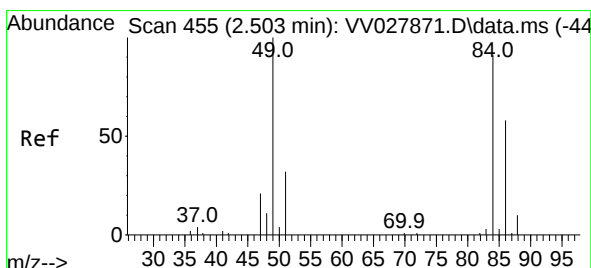
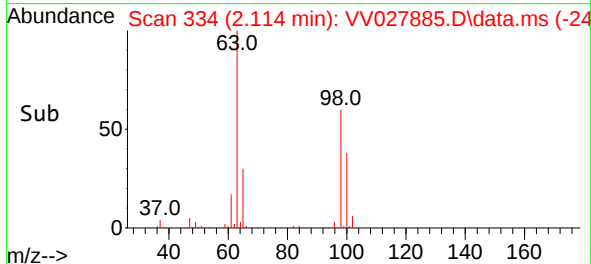
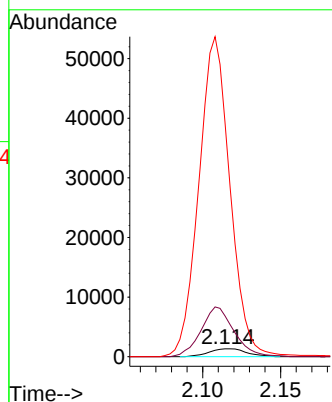
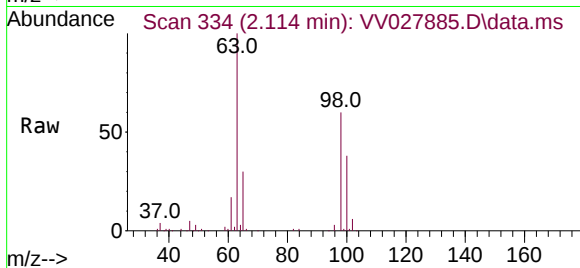
Tgt Ion: 96 Resp: 2233

Ion Ratio Lower Upper

96 100

61 517.8 129.9 241.3#

63 2973.2 94.6 175.8#



#16

Methylene chloride

Concen: 0.560 ug/L

RT: 2.507 min Scan# 456

Delta R.T. 0.003 min

Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

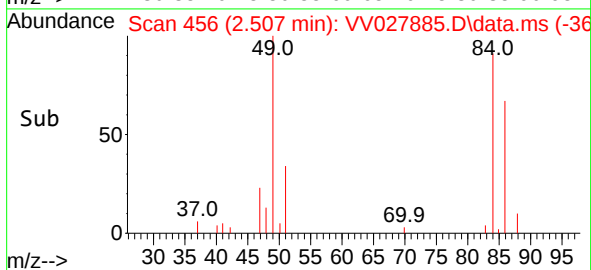
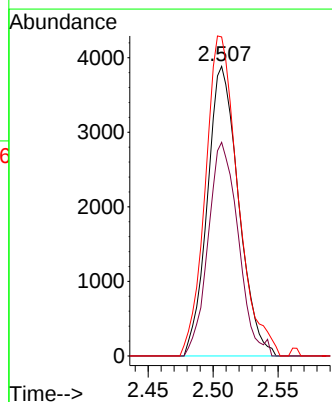
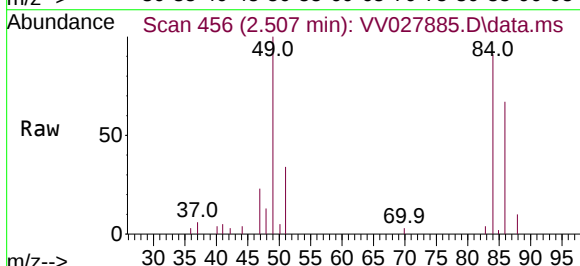
Tgt Ion: 84 Resp: 6497

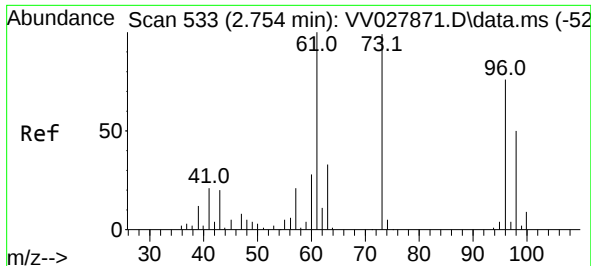
Ion Ratio Lower Upper

84 100

86 73.7 44.9 83.3

49 110.1 90.1 167.3

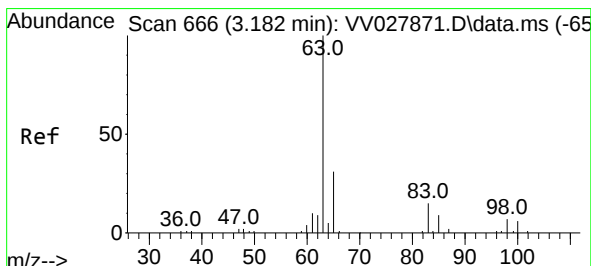
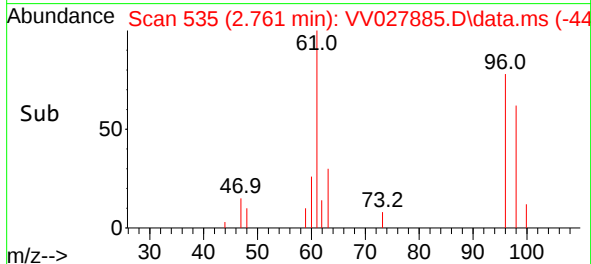
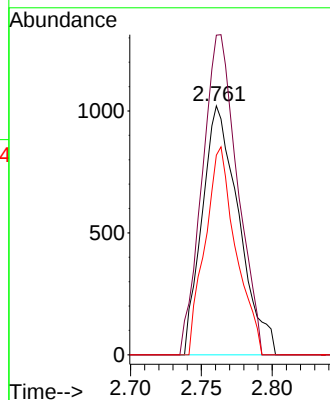
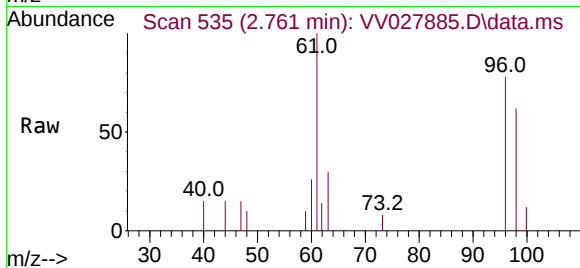




#18
trans-1,2-Dichloroethene
Concen: 0.193 ug/L
RT: 2.761 min Scan# 51
Delta R.T. 0.006 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

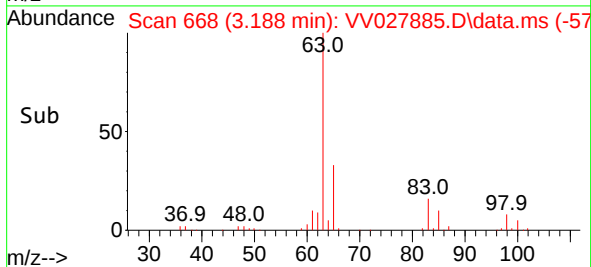
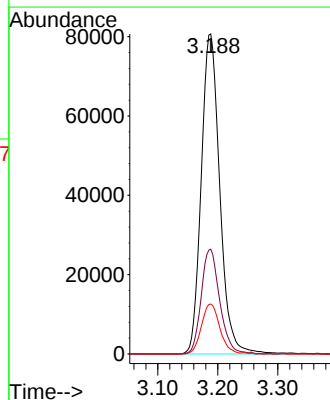
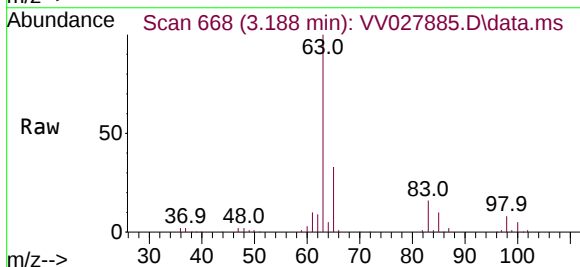
Instrument :
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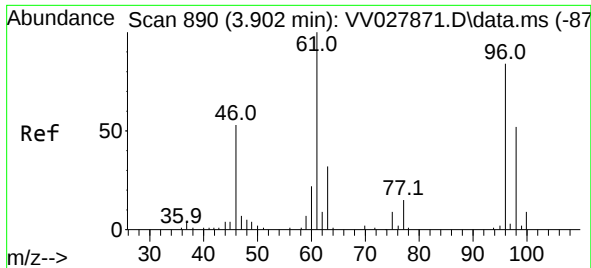
Tgt Ion: 96 Resp: 1839
Ion Ratio Lower Upper
96 100
61 128.4 102.6 190.5
98 80.2 44.0 81.8



#19
1,1-Dichloroethane
Concen: 9.728 ug/L
RT: 3.188 min Scan# 668
Delta R.T. 0.006 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

Tgt Ion: 63 Resp: 173585
Ion Ratio Lower Upper
63 100
65 32.8 22.0 41.0
83 15.6 10.1 18.9





#22

cis-1,2-Dichloroethene

Concen: 7.603 ug/L

RT: 3.908 min Scan# 890

Delta R.T. 0.006 min

Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

ClientSampleId :

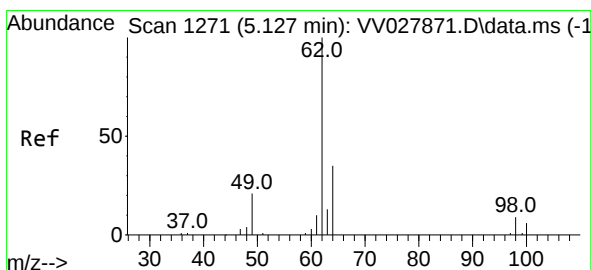
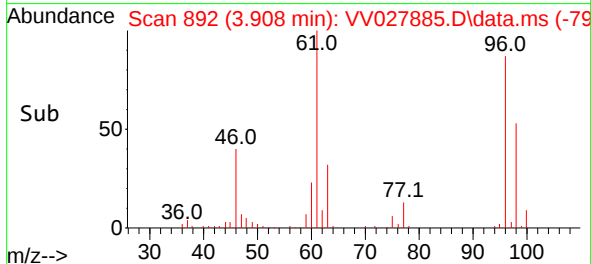
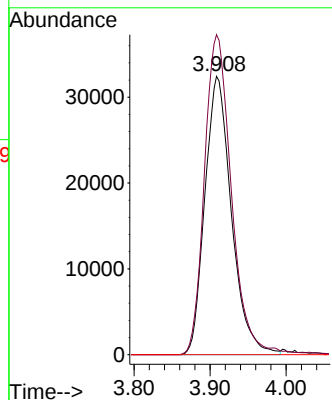
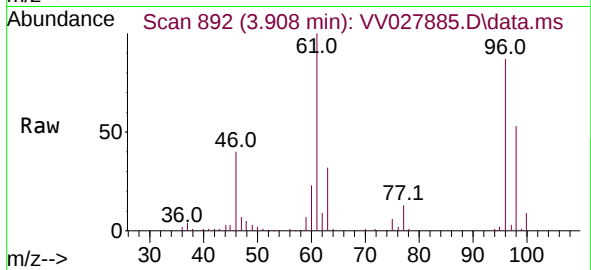
Tgt Ion: 96 Resp: 78785

Ion Ratio Lower Upper

96 100

61 114.9 94.6 175.6

68 0.0 0.3 0.5#



#27

1,2-Dichloroethane

Concen: 0.059 ug/L

RT: 5.150 min Scan# 1278

Delta R.T. 0.023 min

Lab File: VV027885.D

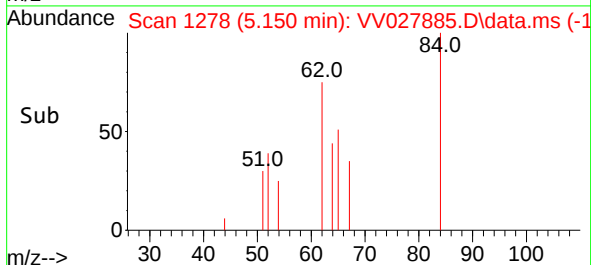
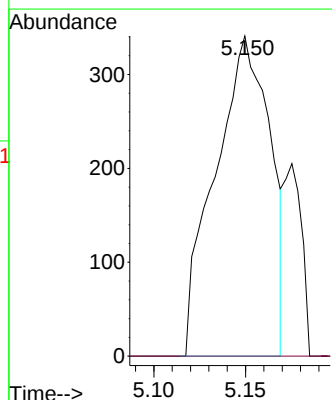
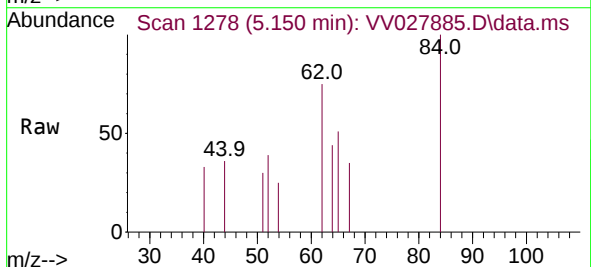
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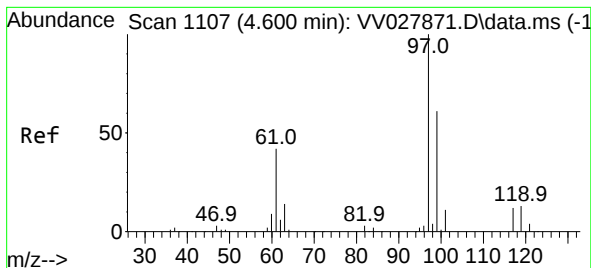
Tgt Ion: 62 Resp: 711

Ion Ratio Lower Upper

62 100

98 0.0 7.1 10.7#





#29

1,1,1-Trichloroethane

Concen: 5.515 ug/L

RT: 4.603 min Scan# 1108

Delta R.T. 0.003 min

Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

ClientSampleId :

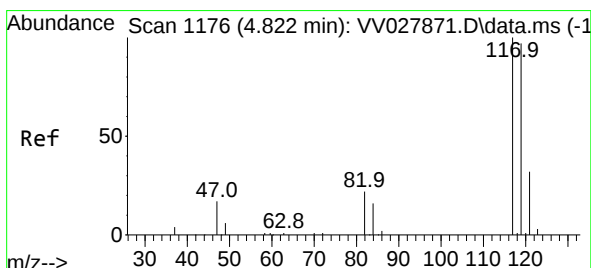
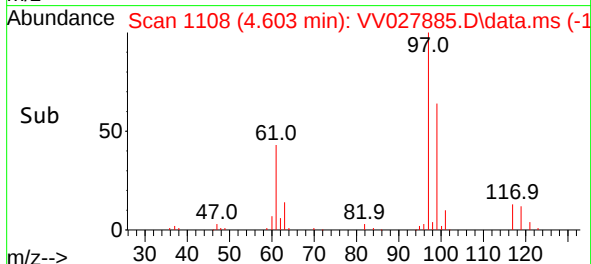
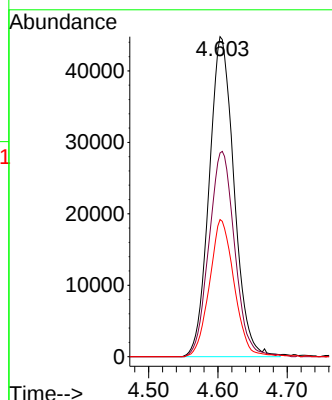
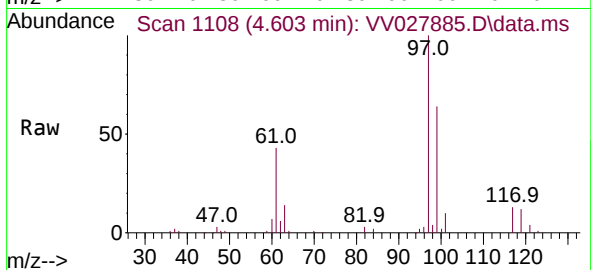
Tgt Ion: 97 Resp: 111891

Ion Ratio Lower Upper

97 100

99 66.4 50.8 76.2

61 42.4 36.2 54.4



#31

Carbon tetrachloride

Concen: 0.810 ug/L

RT: 4.603 min Scan# 1108

Delta R.T. -0.219 min

Lab File: VV027885.D

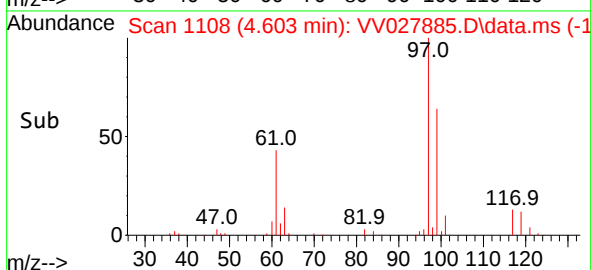
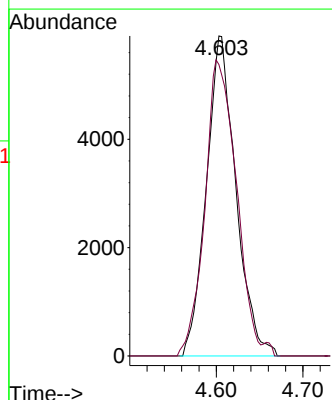
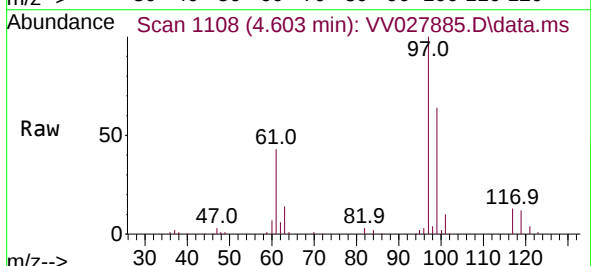
Acq: 16 Sep 2022 16:51

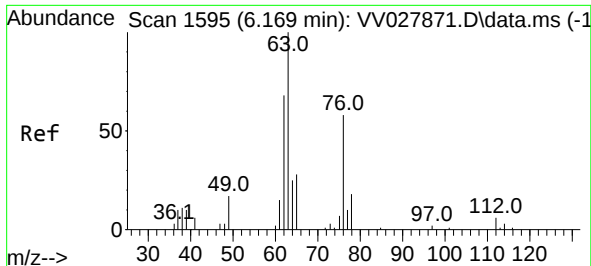
Tgt Ion: 117 Resp: 13961

Ion Ratio Lower Upper

117 100

119 98.2 75.8 113.8





#37

1,2-Dichloropropane

Concen: 0.523 ug/L

RT: 6.069 min Scan# 1

Delta R.T. -0.100 min

Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

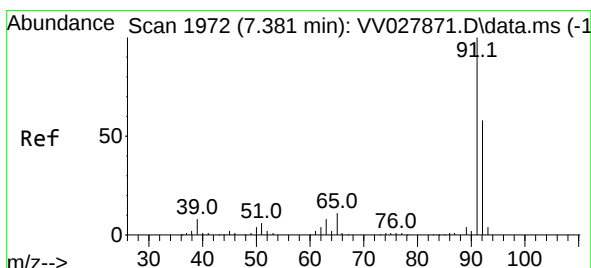
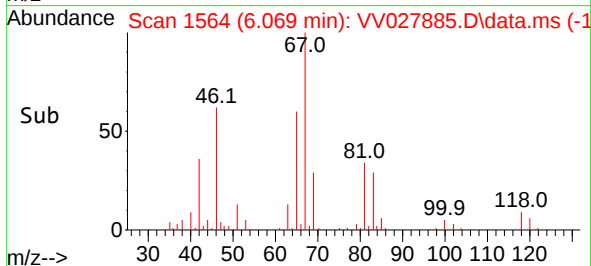
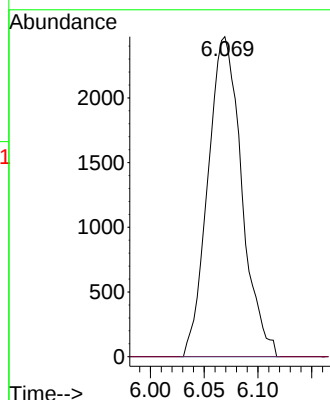
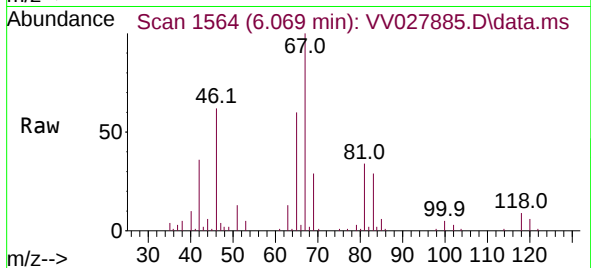
ClientSampleId :

Tgt Ion: 63 Resp: 5406

Ion Ratio Lower Upper

63 100

112 0.0 4.0 6.0#



#42

Toluene

Concen: 0.789 ug/L

RT: 7.391 min Scan# 1975

Delta R.T. 0.010 min

Lab File: VV027885.D

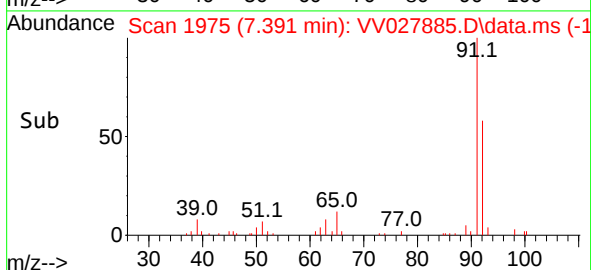
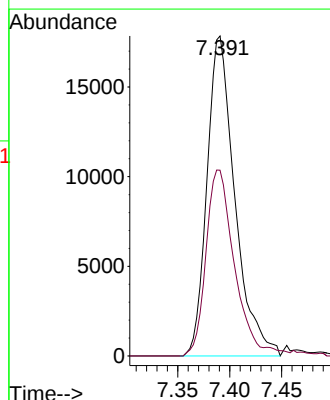
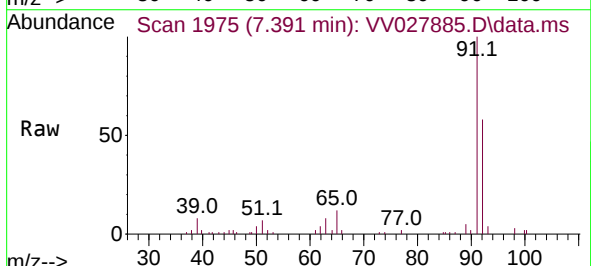
Acq: 16 Sep 2022 16:51

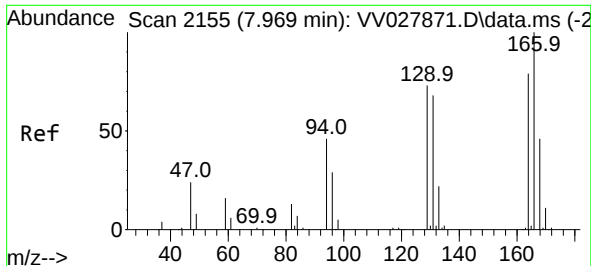
Tgt Ion: 91 Resp: 33292

Ion Ratio Lower Upper

91 100

92 58.1 40.8 75.8





#47

Tetrachloroethene

Concen: 0.382 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.006 min

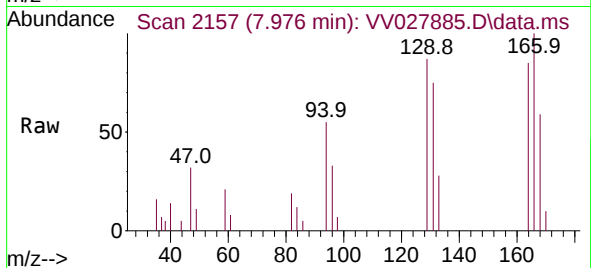
Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 3346

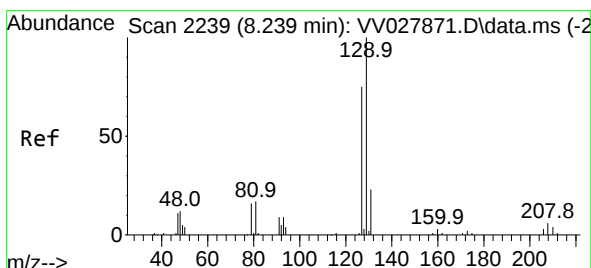
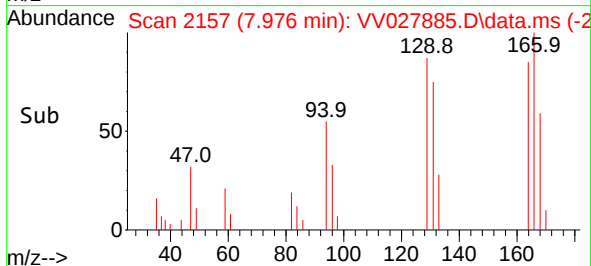
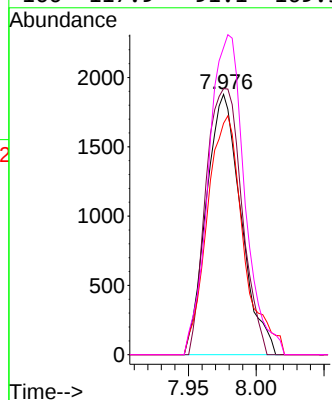
Ion Ratio Lower Upper

164 100

129 102.2 67.2 124.8

131 88.8 61.5 114.3

166 117.9 91.1 169.3



#49

Dibromochloromethane

Concen: 0.415 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.264 min

Lab File: VV027885.D

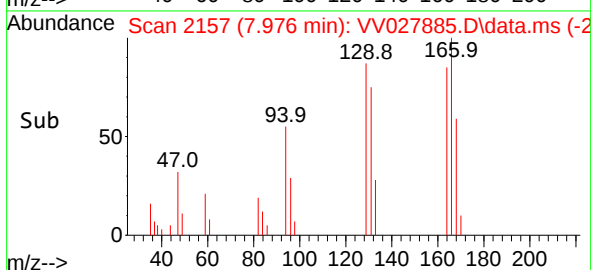
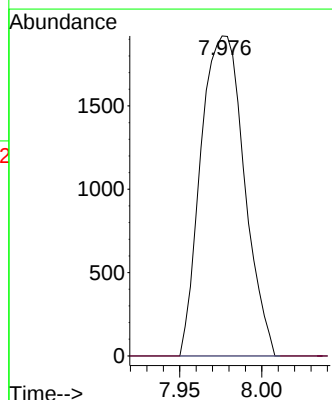
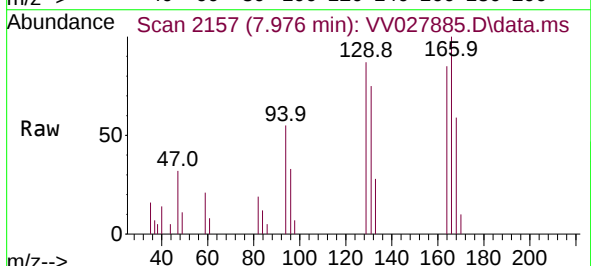
Acq: 16 Sep 2022 16:51

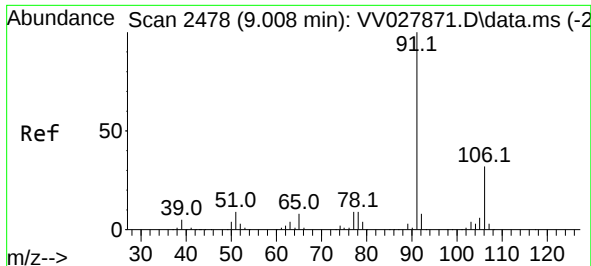
Tgt Ion:129 Resp: 3533

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.6#





#52

Ethylbenzene

Concen: 0.190 ug/L

RT: 9.014 min Scan# 2478

Delta R.T. 0.006 min

Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

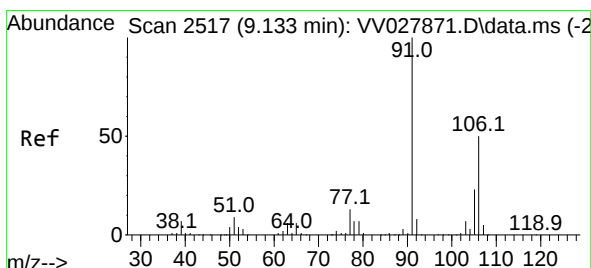
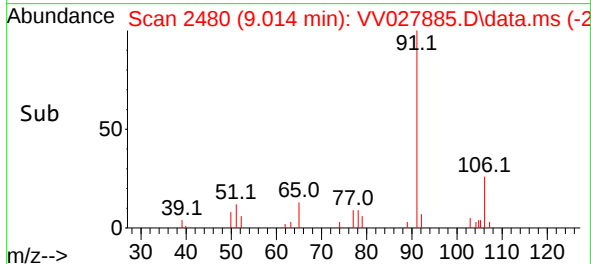
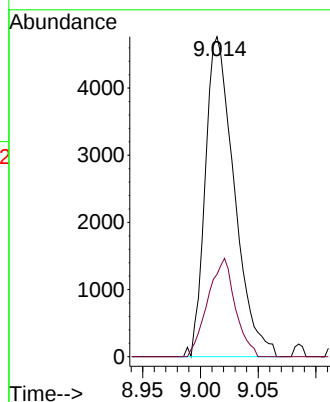
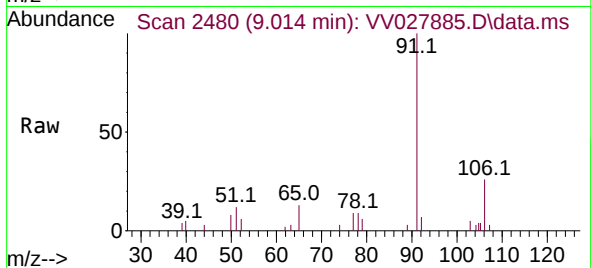
ClientSampleId :

Tgt Ion: 91 Resp: 8303

Ion Ratio Lower Upper

91 100

106 25.8 22.0 40.8



#53

m,p-Xylene

Concen: 0.353 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.006 min

Lab File: VV027885.D

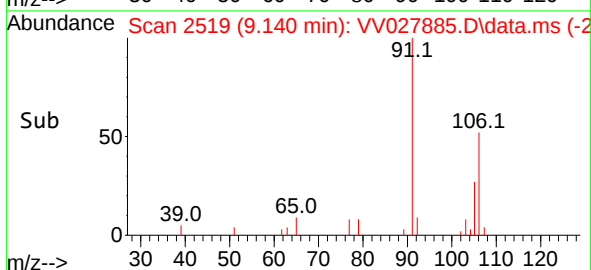
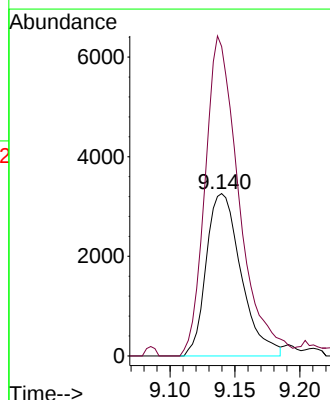
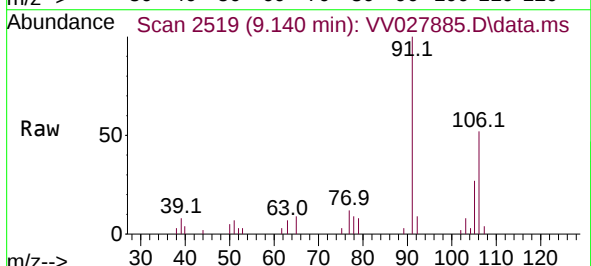
Acq: 16 Sep 2022 16:51

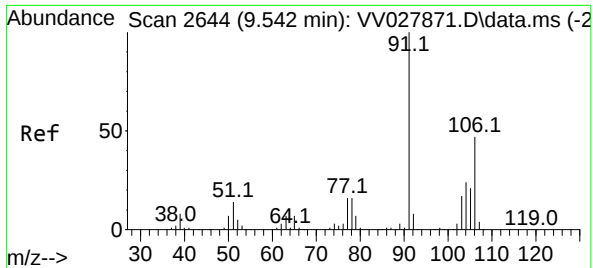
Tgt Ion: 106 Resp: 6081

Ion Ratio Lower Upper

106 100

91 190.6 142.4 264.4

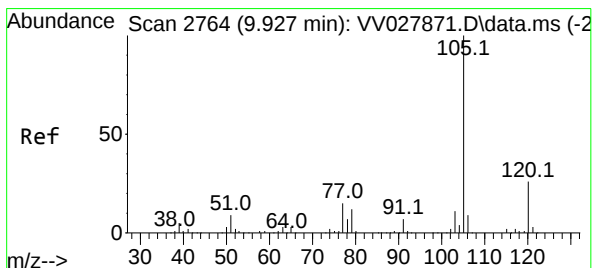
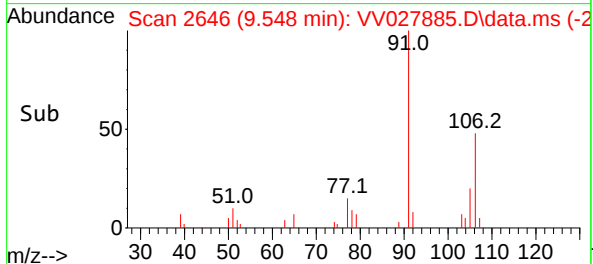
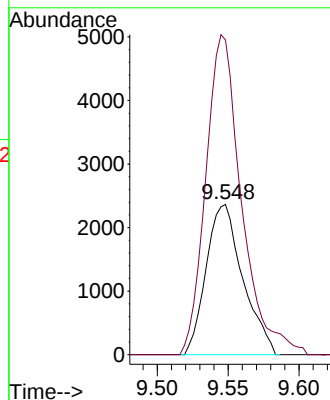
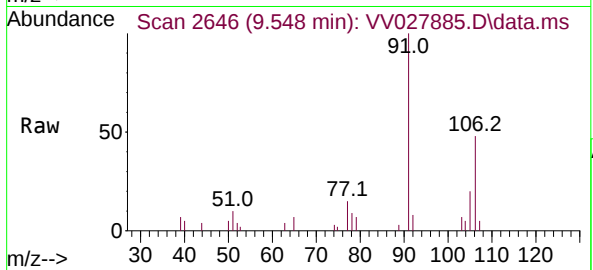




#54
o-Xylene
Concen: 0.259 ug/L
RT: 9.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

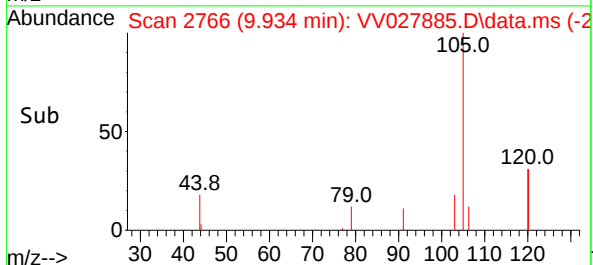
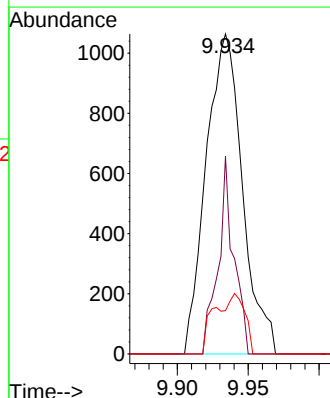
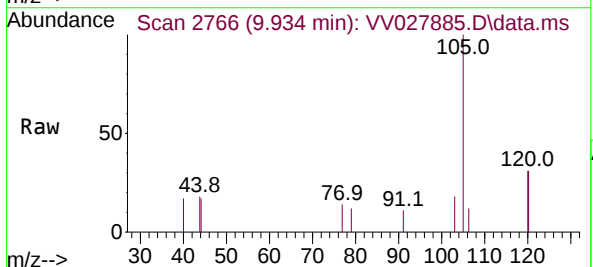
Instrument :
MSVOA_V
ClientSampleId :

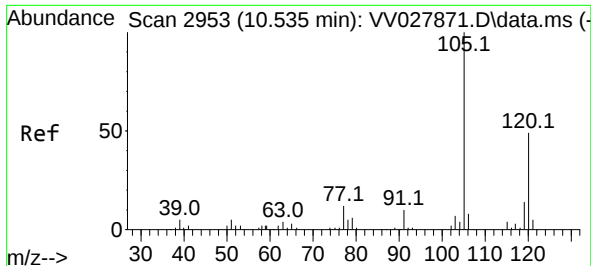
Tgt Ion:106 Resp: 4249
Ion Ratio Lower Upper
106 100
91 209.4 147.5 273.9



#60
Isopropylbenzene
Concen: 0.045 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.006 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

Tgt Ion:105 Resp: 1892
Ion Ratio Lower Upper
105 100
120 26.6 21.3 31.9
77 5.9 12.6 18.8#





#62

1,3,5-Trimethylbenzene

Concen: 0.296 ug/L

RT: 10.538 min Scan# 2953

Delta R.T. 0.003 min

Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

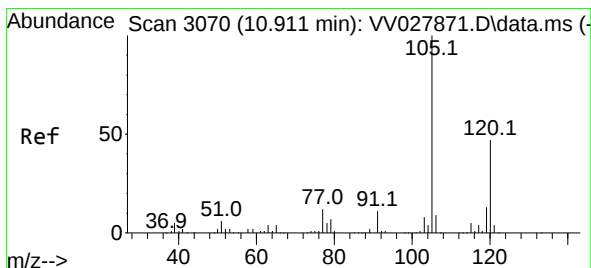
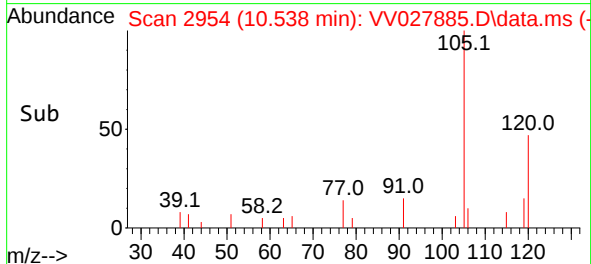
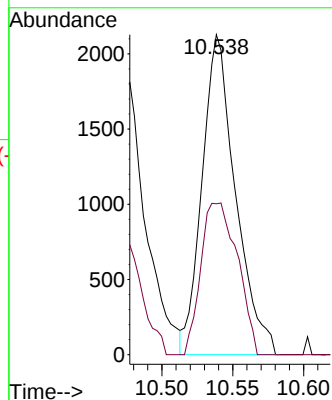
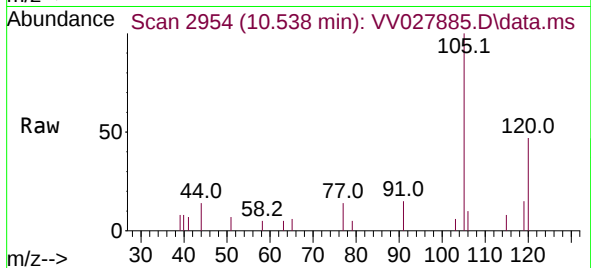
ClientSampleId :

Tgt Ion:105 Resp: 3489

Ion Ratio Lower Upper

105 100

120 52.0 39.6 59.4



#63

1,2,4-Trimethylbenzene

Concen: 0.455 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.003 min

Lab File: VV027885.D

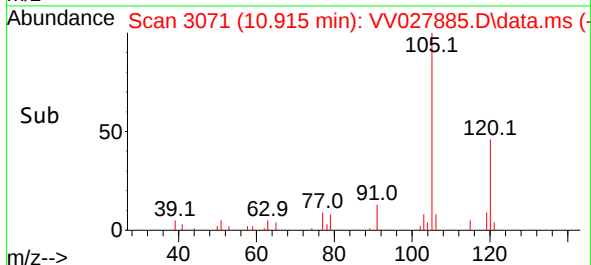
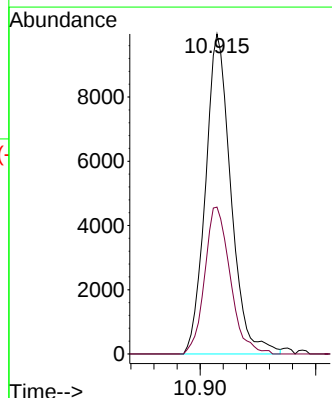
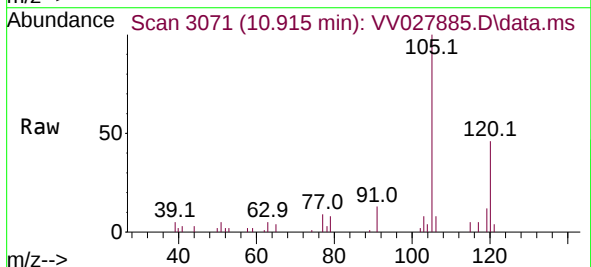
Acq: 16 Sep 2022 16:51

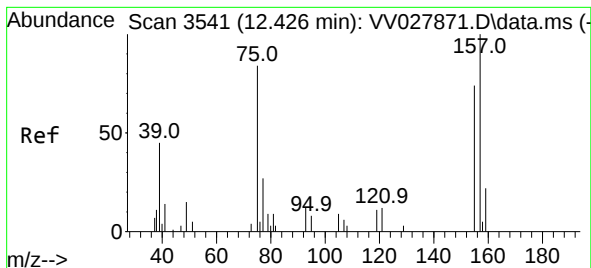
Tgt Ion:105 Resp: 15229

Ion Ratio Lower Upper

105 100

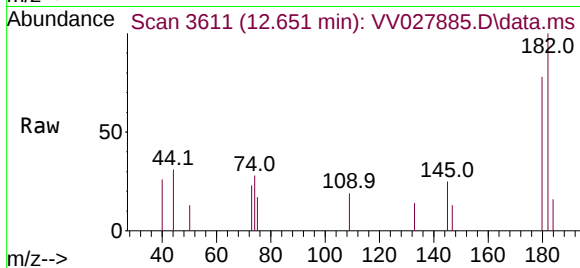
120 46.1 37.4 56.0



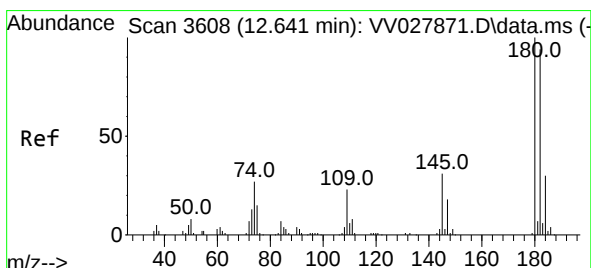
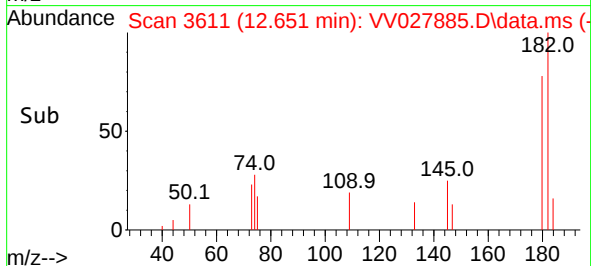
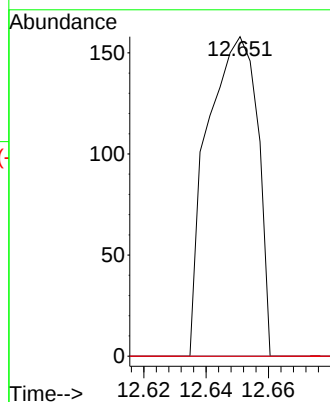


#68
1,2-Dibromo-3-chloropropane
Concen: 0.155 ug/L
RT: 12.651 min Scan# 3611
Delta R.T. 0.225 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

Instrument :
MSVOA_V
ClientSampleId :

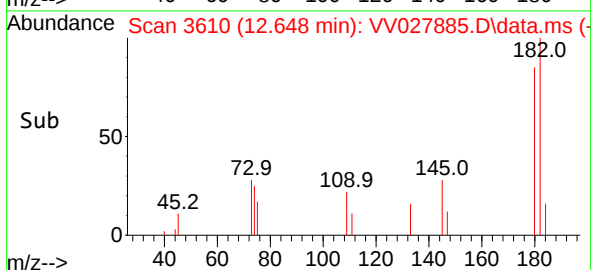
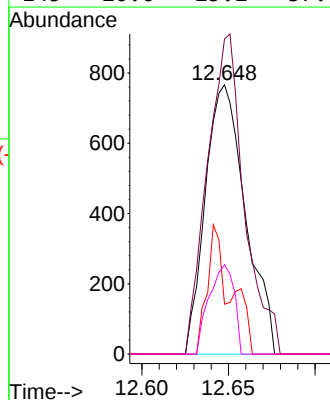
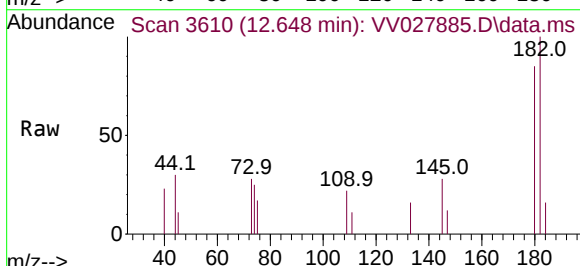


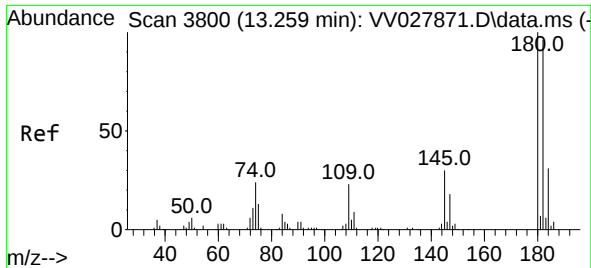
Tgt Ion: 75 Resp: 176
Ion Ratio Lower Upper
75 100
155 0.0 71.9 107.9#
157 0.0 95.1 142.7#



#69
1,3,5-Trichlorobenzene
Concen: 0.077 ug/L
RT: 12.648 min Scan# 3610
Delta R.T. 0.006 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

Tgt Ion:180 Resp: 1236
Ion Ratio Lower Upper
180 100
182 109.1 75.8 113.8
184 7.8 23.8 35.6#
145 20.6 25.2 37.8#

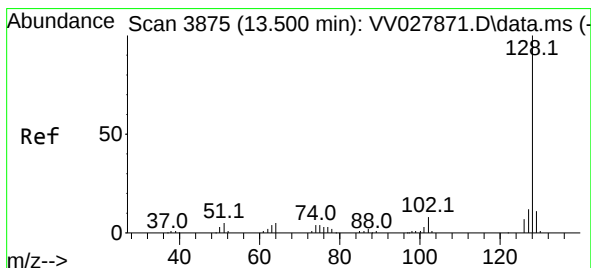
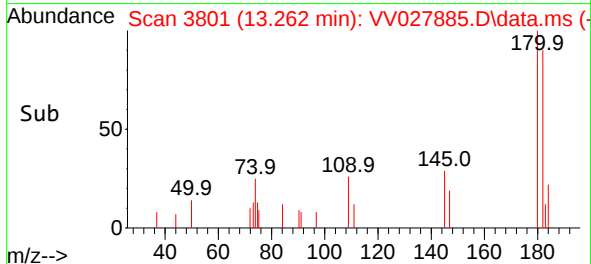
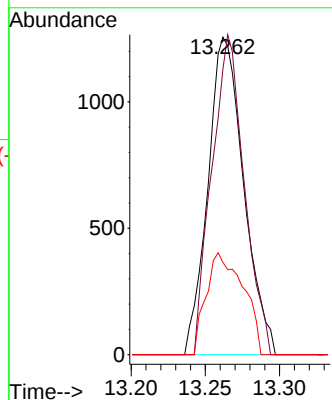
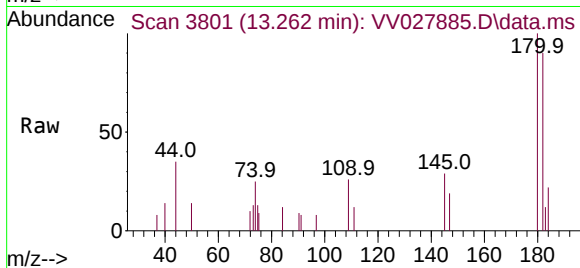




#70
1,2,4-trichlorobenzene
Concen: 0.166 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

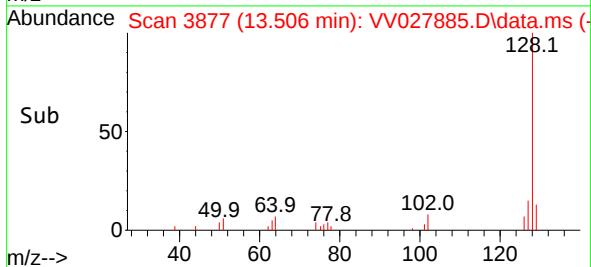
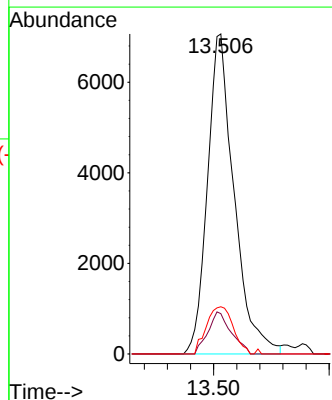
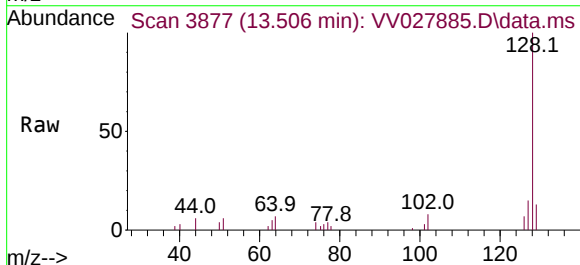
Instrument :
MSVOA_V
ClientSampleId :

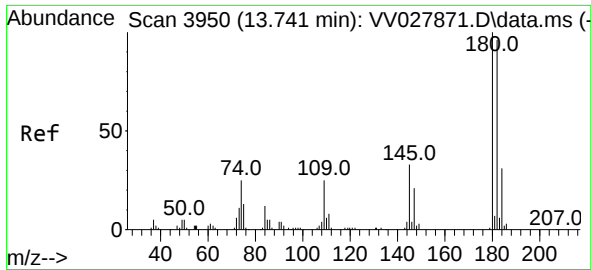
Tgt Ion:180 Resp: 2104
Ion Ratio Lower Upper
180 100
182 91.3 76.6 114.8
145 33.2 24.6 37.0



#71
Naphthalene
Concen: 0.567 ug/L
RT: 13.506 min Scan# 3877
Delta R.T. 0.006 min
Lab File: VV027885.D
Acq: 16 Sep 2022 16:51

Tgt Ion:128 Resp: 11298
Ion Ratio Lower Upper
128 100
129 11.4 9.2 13.8
127 14.8 10.6 16.0





#72

1,2,3-Trichlorobenzene

Concen: 0.189 ug/L

RT: 13.747 min Scan# 3952

Delta R.T. 0.006 min

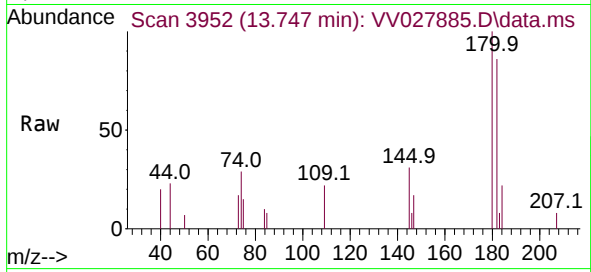
Lab File: VV027885.D

Acq: 16 Sep 2022 16:51

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 2135

Ion Ratio Lower Upper

180 100

182 102.7 76.5 114.7

145 36.2 26.5 39.7

