

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW072922\
 Data File : VW027111.D
 Acq On : 30 Jul 2022 02:43
 Operator : SY/MD
 Sample : N3956-10
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXF07

Quant Time: Jul 30 04:30:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM072822WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 30 01:28:32 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	667956	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	668213	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	352235	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	203055	31.953	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	63.900%
7) Chloroethane-d5	1.564	69	170503	33.864	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	67.720%#
11) 1,1-Dichloroethene-d2	2.101	63	289947	26.801	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.600%#
21) 2-Butanone-d5	3.886	46	214980	59.329	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	59.330%
24) Chloroform-d	4.342	84	420353	36.727	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	73.460%
26) 1,2-Dichloroethane-d4	5.027	65	257107	39.573	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.140%
32) Benzene-d6	5.046	84	924595	39.403	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.800%
36) 1,2-Dichloropropane-d6	6.066	67	283018	39.407	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	78.820%
41) Toluene-d8	7.313	98	824882	38.892	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	77.780%#
43) trans-1,3-Dichloroprop...	7.619	79	128012	40.350	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.700%
47) 2-Hexanone-d5	8.088	63	269008	87.129	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.130%
56) 1,1,2,2-Tetrachloroeth...	10.213	84	401096	37.040	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	74.080%
66) 1,2-Dichlorobenzene-d4	11.622	152	317006	40.035	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.080%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	126307	18.785	ug/L	97
12) 1,1-Dichloroethene	2.108	96	5677	1.167	ug/L #	1
13) Acetone	2.178	43	7685	2.863	ug/L	63
14) Carbon disulfide	2.288	76	27788	1.800	ug/L	95
17) trans-1,2-Dichloroethene	2.757	96	9453	1.775	ug/L	92
19) 1,1-Dichloroethane	3.185	63	52544	5.649	ug/L	99
20) cis-1,2-Dichloroethene	3.911	96	8677	1.575	ug/L	90
27) 1,2-Dichloroethane	5.095	62	195779	29.011	ug/L #	70
29) Cyclohexane	4.677	56	23814	3.317	ug/L	99
35) Methylcyclohexane	6.127	83	19907	2.408	ug/L	91
42) Toluene	7.384	91	1327148	59.774	ug/L	98
45) 1,1,2-Trichloroethane	7.786	97	36309	6.293	ug/L #	1
52) Ethylbenzene	9.011	91	145196	6.458	ug/L	99
53) m,p-Xylene	9.140	106	84944	9.606	ug/L	99
54) o-Xylene	9.541	106	91535	10.749	ug/L	94
62) 1,3,5-Trimethylbenzene	10.538	105	12227	1.300	ug/L	99
63) 1,2,4-Trimethylbenzene	10.914	105	54295	7.232	ug/L	98
65) 1,4-Dichlorobenzene	11.271	146	49566	4.408	ug/L	98
67) 1,2-Dichlorobenzene	11.641	146	205371	18.429	ug/L	100

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Quant Title : VOC Analysis
QLast Update : Sat Jul 30 01:28:32 2022
Response via : Initial Calibration

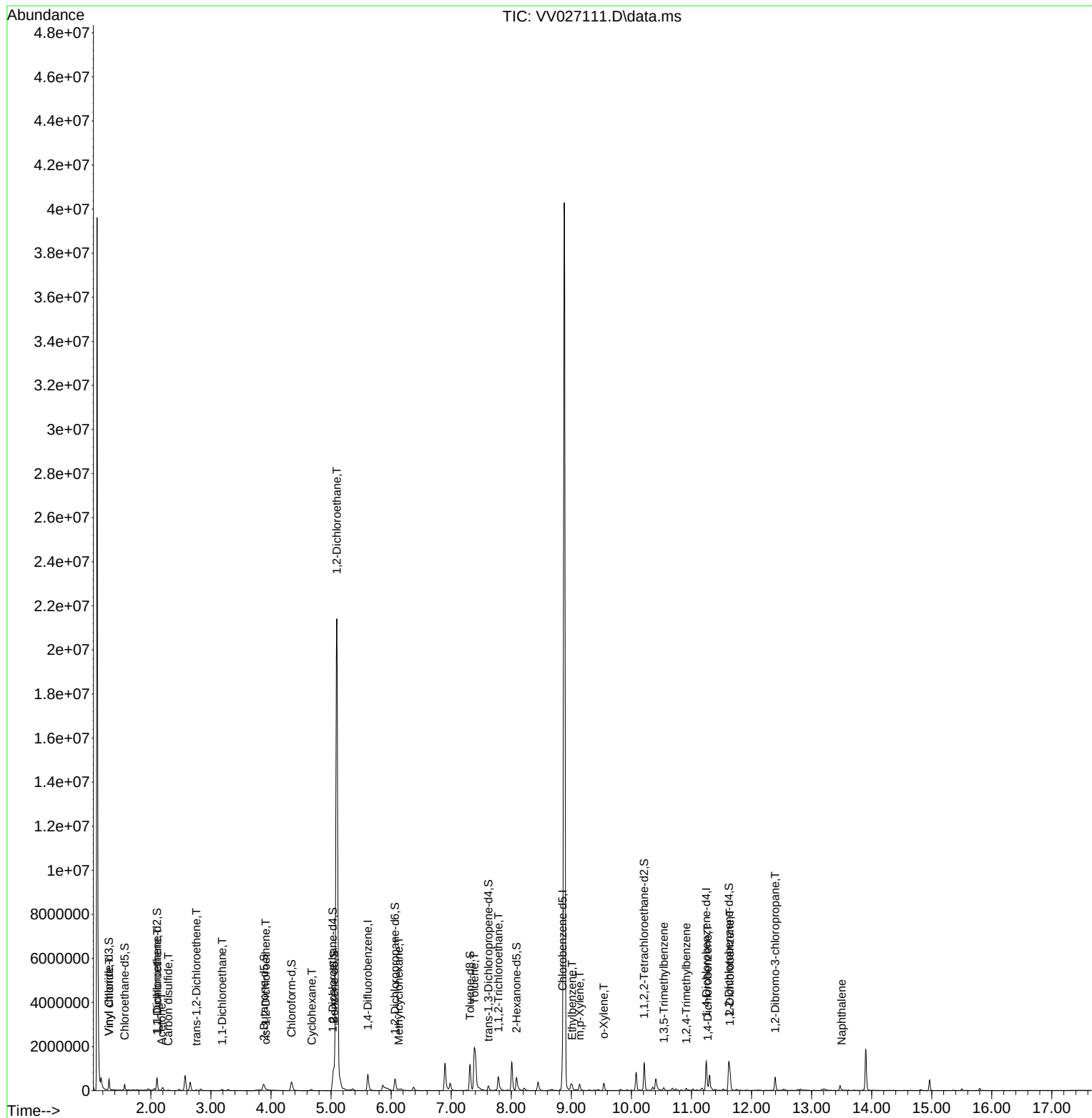
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.393	75	93885	48.474	ug/L #	3
71) Naphthalene	13.503	128	32217	1.495	ug/L #	96

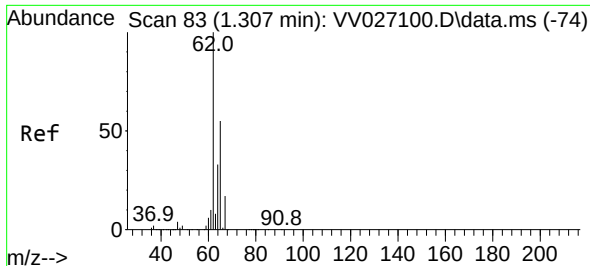
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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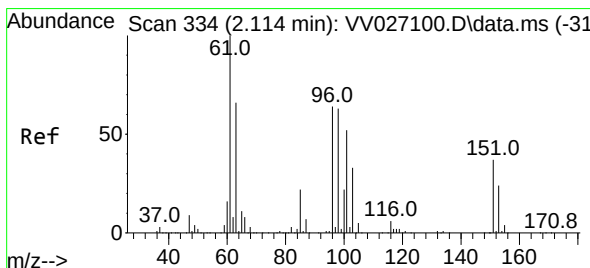
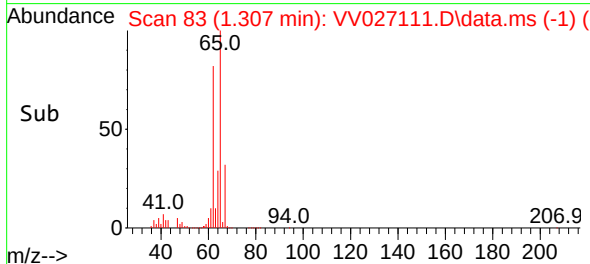
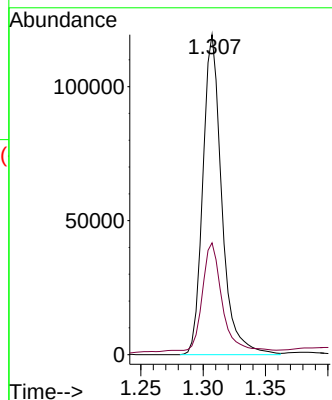
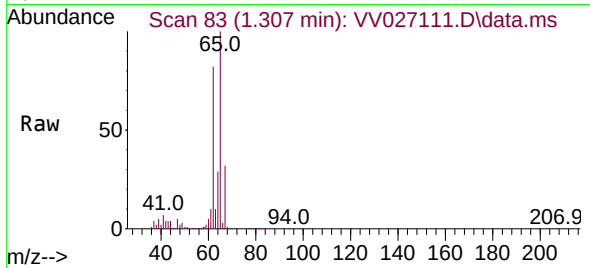




#5
 Vinyl chloride
 Concen: 18.785 ug/L
 RT: 1.307 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VV027111.D
 Acq: 30 Jul 2022 02:43

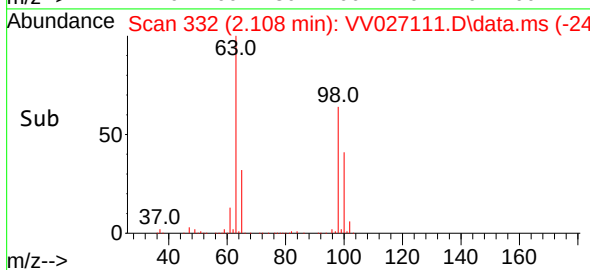
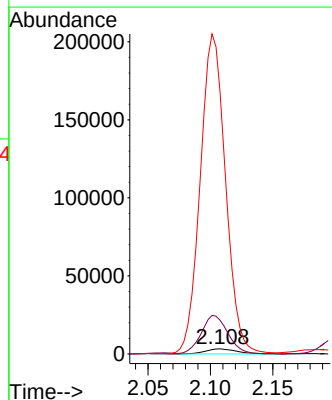
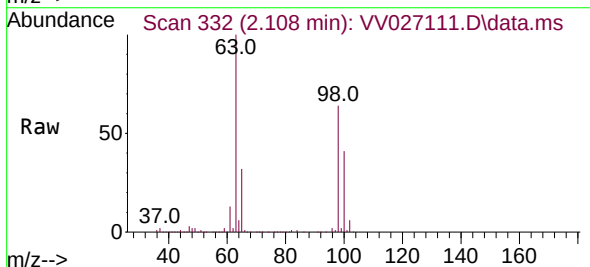
Instrument :
 MSVOA_V
 ClientSampleId :
 EXF07

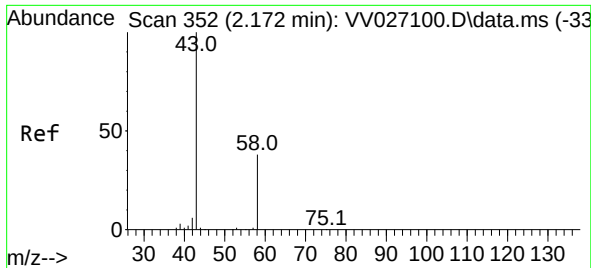
Tgt Ion: 62 Resp: 126307
 Ion Ratio Lower Upper
 62 100
 64 35.0 23.2 43.2



#12
 1,1-Dichloroethene
 Concen: 1.167 ug/L
 RT: 2.108 min Scan# 332
 Delta R.T. -0.007 min
 Lab File: VV027111.D
 Acq: 30 Jul 2022 02:43

Tgt Ion: 96 Resp: 5677
 Ion Ratio Lower Upper
 96 100
 61 667.4 114.3 212.3#
 63 5186.8 93.4 173.4#





#13

Acetone

Concen: 2.863 ug/L

RT: 2.178 min Scan# 352

Delta R.T. 0.006 min

Lab File: VV027111.D

Acq: 30 Jul 2022 02:43

Instrument :

MSVOA_V

ClientSampleId :

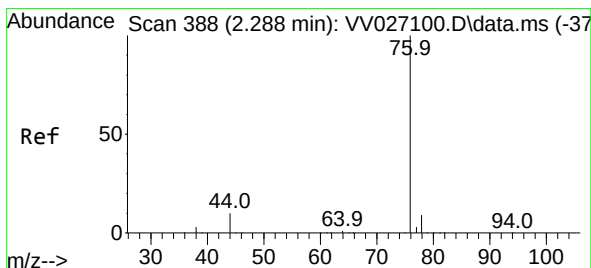
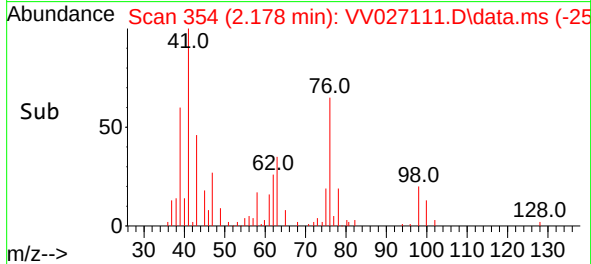
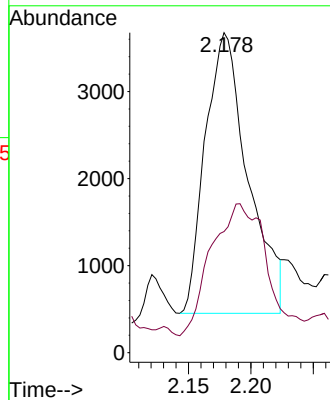
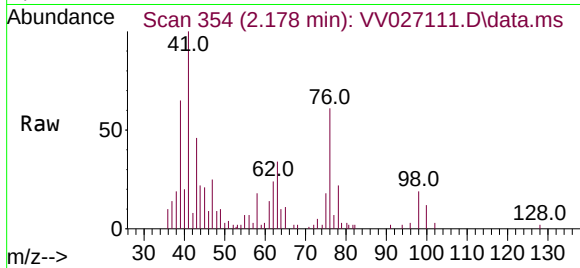
EXF07

Tgt Ion: 43 Resp: 7685

Ion Ratio Lower Upper

43 100

58 43.3 0.0 49.6



#14

Carbon disulfide

Concen: 1.800 ug/L

RT: 2.288 min Scan# 388

Delta R.T. -0.000 min

Lab File: VV027111.D

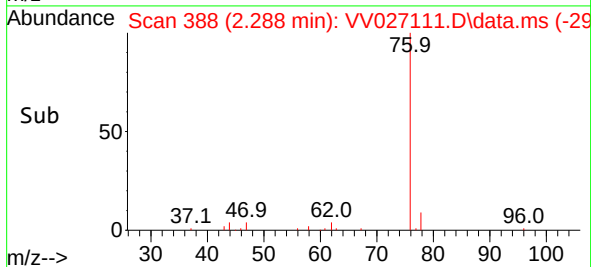
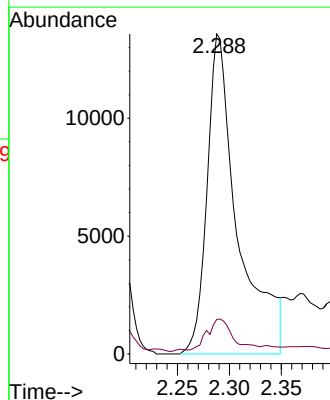
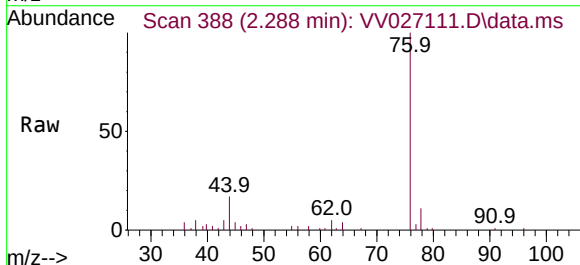
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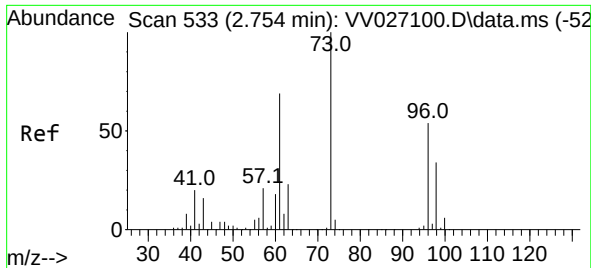
Tgt Ion: 76 Resp: 27788

Ion Ratio Lower Upper

76 100

78 10.7 7.3 10.9

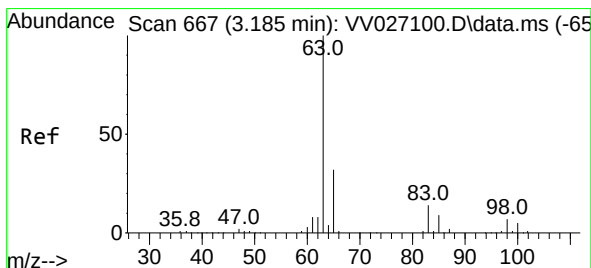
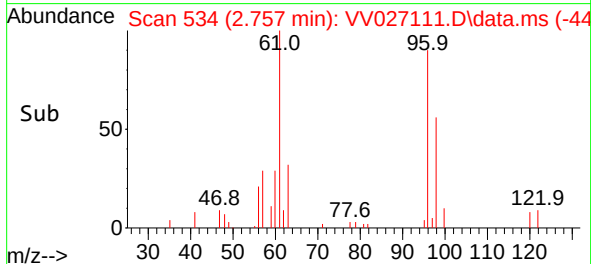
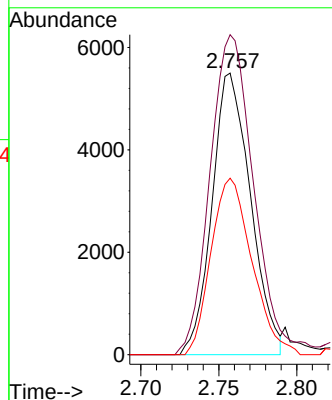
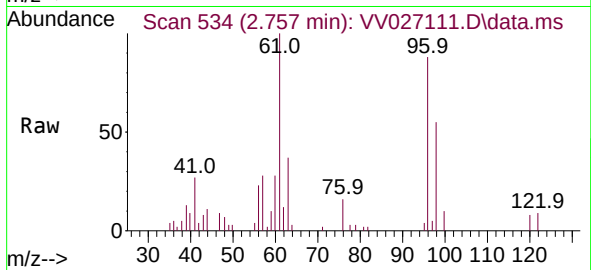




#17
 trans-1,2-Dichloroethene
 Concen: 1.775 ug/L
 RT: 2.757 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VV027111.D
 Acq: 30 Jul 2022 02:43

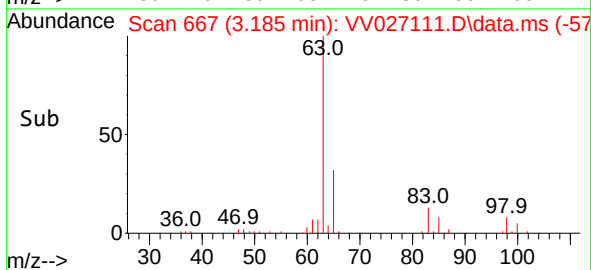
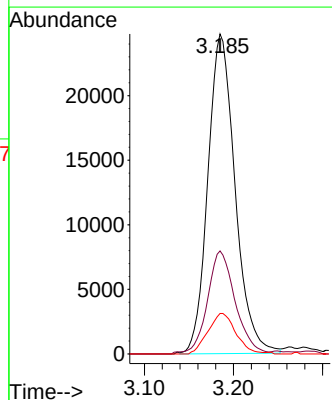
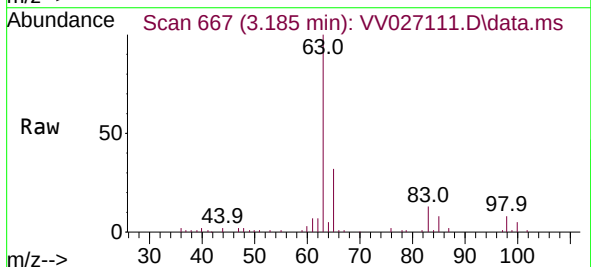
Instrument :
 MSVOA_V
 ClientSampleId :
 EXF07

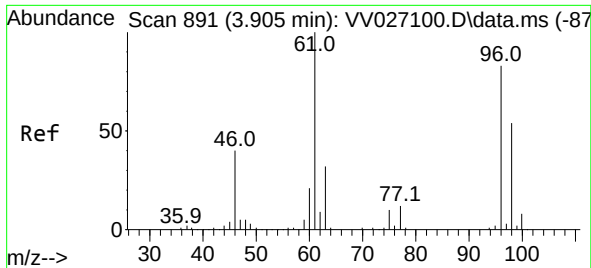
Tgt Ion: 96 Resp: 9453
 Ion Ratio Lower Upper
 96 100
 61 113.7 89.2 165.6
 98 62.7 44.6 82.8



#19
 1,1-Dichloroethane
 Concen: 5.649 ug/L
 RT: 3.185 min Scan# 667
 Delta R.T. -0.000 min
 Lab File: VV027111.D
 Acq: 30 Jul 2022 02:43

Tgt Ion: 63 Resp: 52544
 Ion Ratio Lower Upper
 63 100
 65 32.2 22.7 42.3
 83 12.7 9.5 17.7

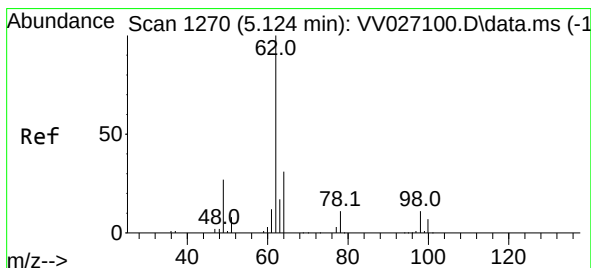
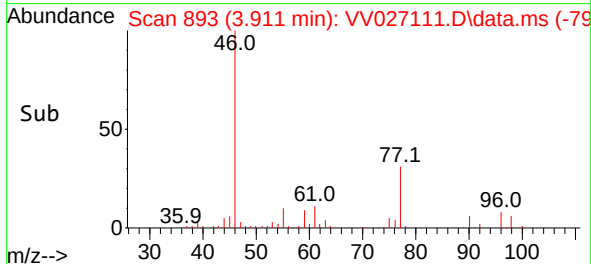
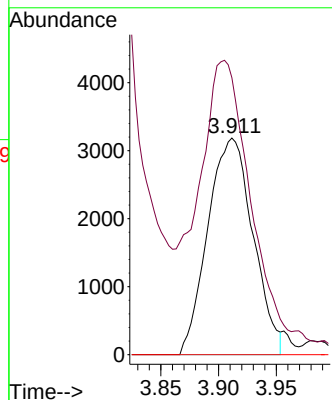
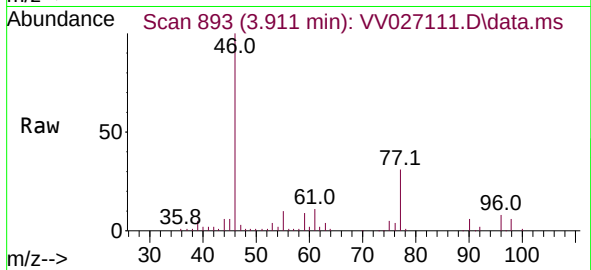




#20
 cis-1,2-Dichloroethene
 Concen: 1.575 ug/L
 RT: 3.911 min Scan# 891
 Delta R.T. 0.006 min
 Lab File: VV027111.D
 Acq: 30 Jul 2022 02:43

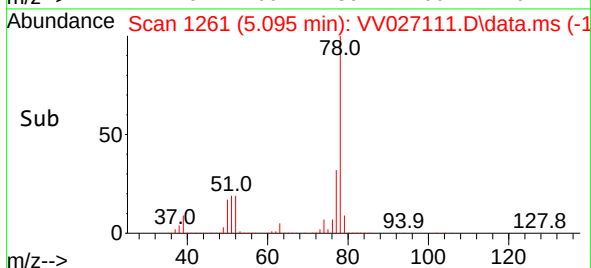
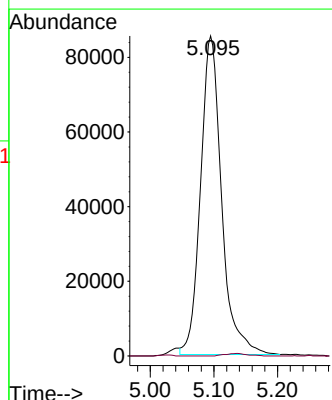
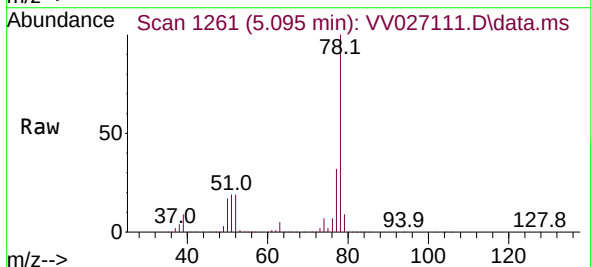
Instrument :
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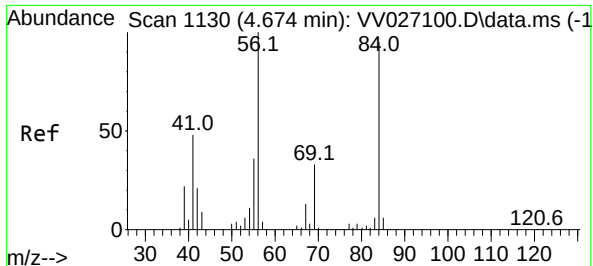
Tgt Ion: 96 Resp: 8677
 Ion Ratio Lower Upper
 96 100
 61 127.9 81.8 151.8
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 29.011 ug/L
 RT: 5.095 min Scan# 1261
 Delta R.T. -0.029 min
 Lab File: VV027111.D
 Acq: 30 Jul 2022 02:43

Tgt Ion: 62 Resp: 195779
 Ion Ratio Lower Upper
 62 100
 98 0.0 9.0 13.6#





#29

Cyclohexane

Concen: 3.317 ug/L

RT: 4.677 min Scan# 1131

Delta R.T. 0.003 min

Lab File: VV027111.D

Acq: 30 Jul 2022 02:43

Instrument :

MSVOA_V

ClientSampleId :

EXF07

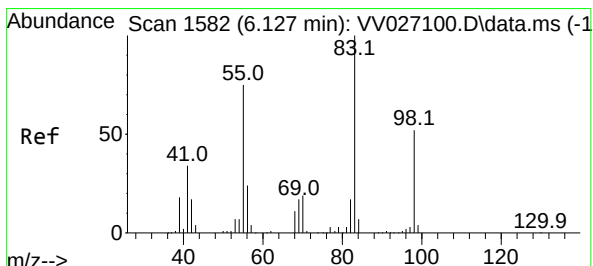
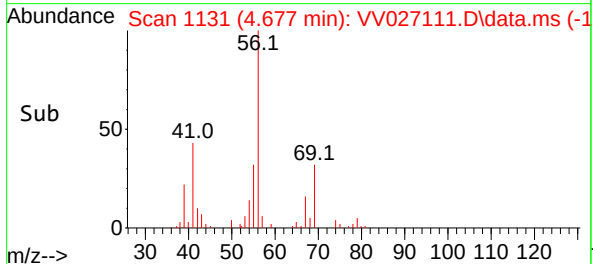
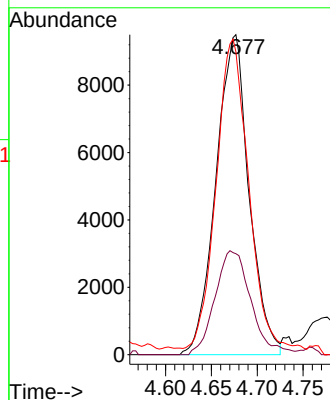
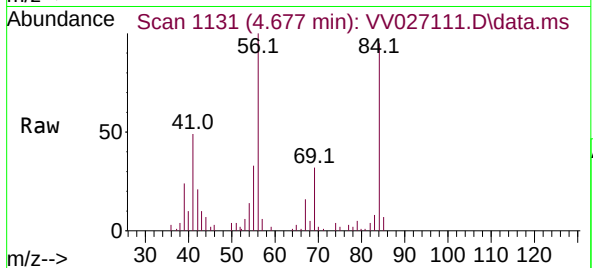
Tgt Ion: 56 Resp: 23814

Ion Ratio Lower Upper

56 100

69 34.0 25.9 38.9

84 93.4 75.3 112.9



#35

Methylcyclohexane

Concen: 2.408 ug/L

RT: 6.127 min Scan# 1582

Delta R.T. -0.000 min

Lab File: VV027111.D

Acq: 30 Jul 2022 02:43

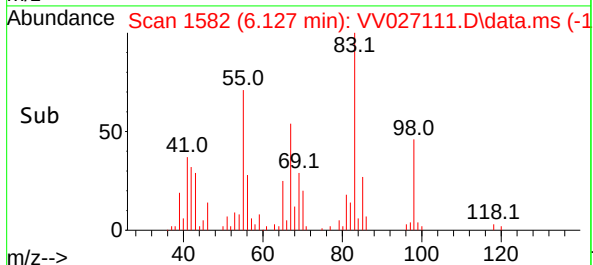
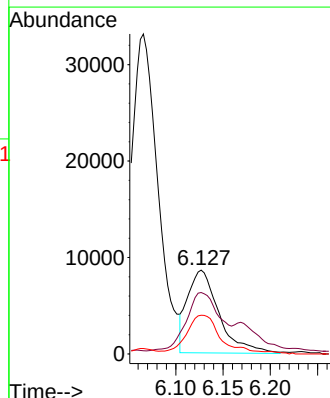
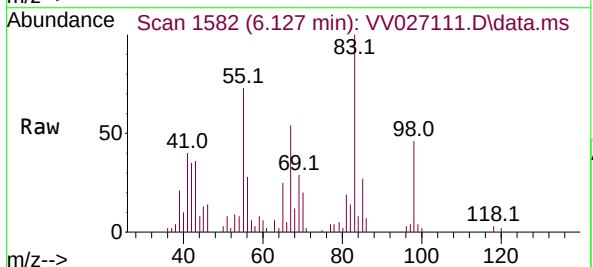
Tgt Ion: 83 Resp: 19907

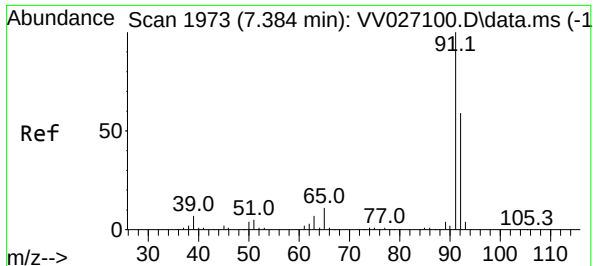
Ion Ratio Lower Upper

83 100

55 74.9 55.5 83.3

98 40.4 39.0 58.4





#42

Toluene

Concen: 59.774 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. -0.000 min

Lab File: VV027111.D

Acq: 30 Jul 2022 02:43

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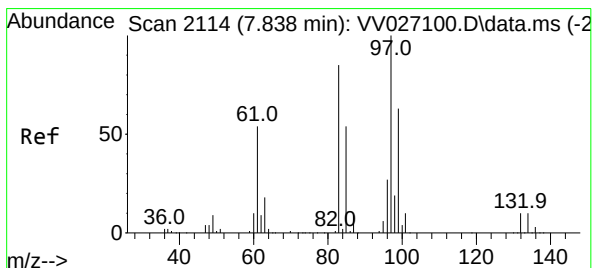
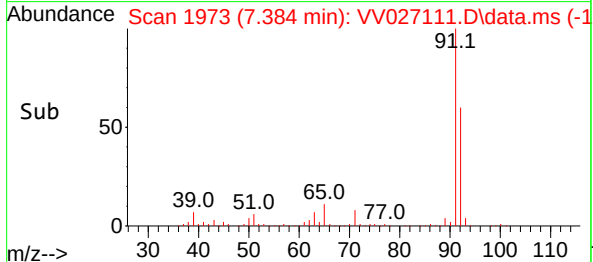
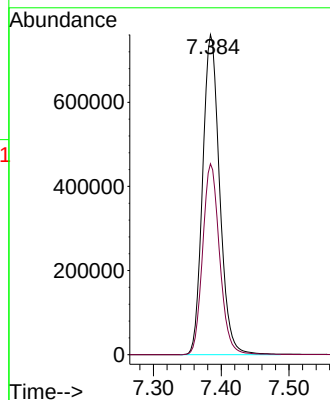
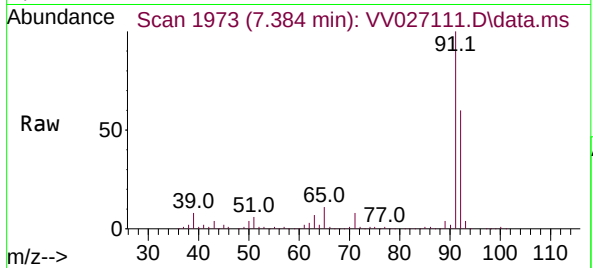
EXF07

Tgt Ion: 91 Resp: 1327148

Ion Ratio Lower Upper

91 100

92 59.6 40.9 76.0



#45

1,1,2-Trichloroethane

Concen: 6.293 ug/L

RT: 7.786 min Scan# 2098

Delta R.T. -0.052 min

Lab File: VV027111.D

Acq: 30 Jul 2022 02:43

Tgt Ion: 97 Resp: 36309

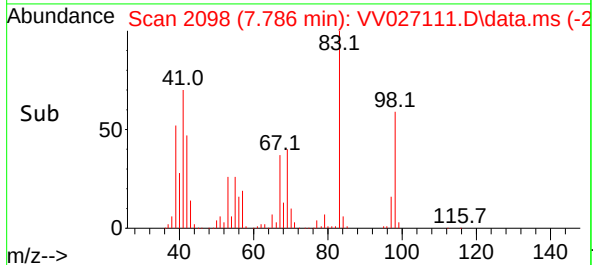
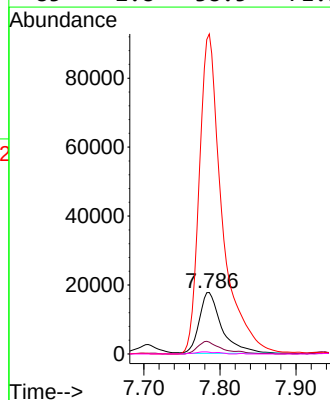
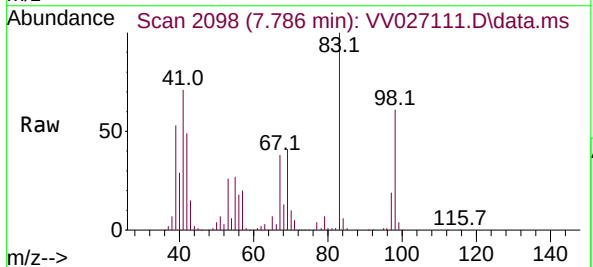
Ion Ratio Lower Upper

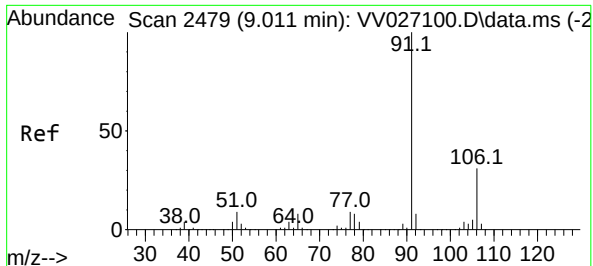
97 100

99 19.3 43.2 80.2#

83 521.3 58.0 107.6#

85 2.8 38.5 71.5#





#52

Ethylbenzene

Concen: 6.458 ug/L

RT: 9.011 min Scan# 2479

Delta R.T. -0.000 min

Lab File: VV027111.D

Acq: 30 Jul 2022 02:43

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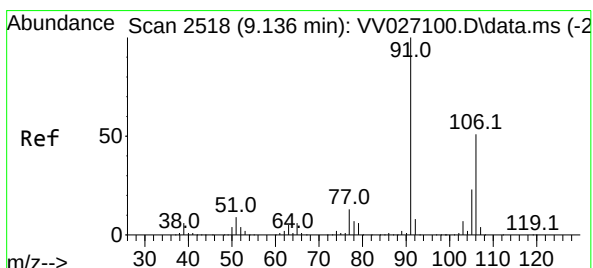
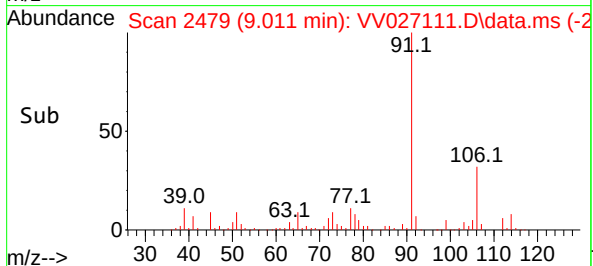
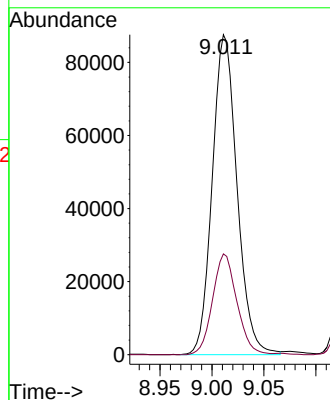
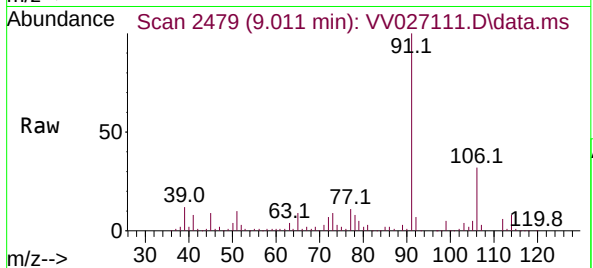
EXF07

Tgt Ion: 91 Resp: 145196

Ion Ratio Lower Upper

91 100

106 31.5 21.8 40.6



#53

m,p-Xylene

Concen: 9.606 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.003 min

Lab File: VV027111.D

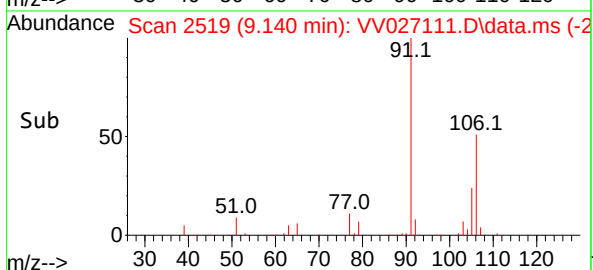
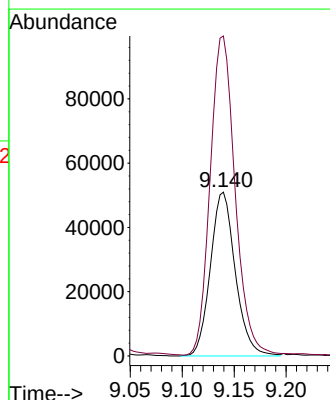
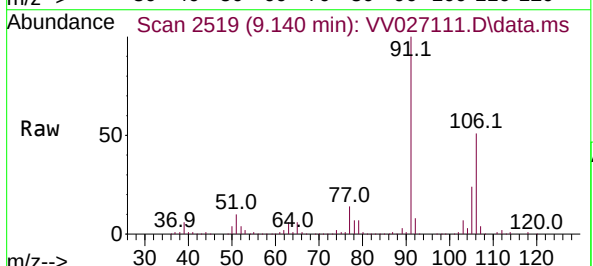
Acq: 30 Jul 2022 02:43

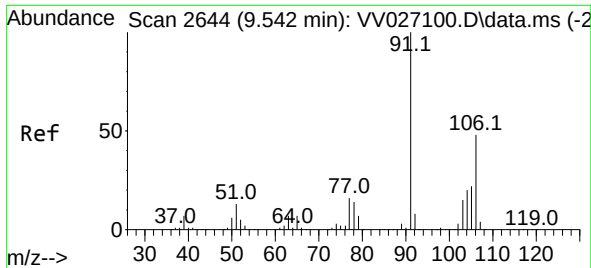
Tgt Ion: 106 Resp: 84944

Ion Ratio Lower Upper

106 100

91 195.4 137.5 255.3

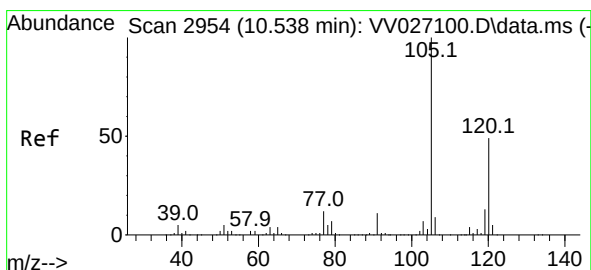
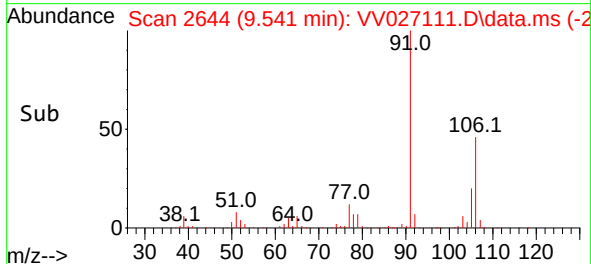
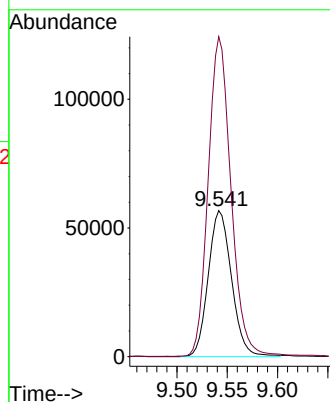
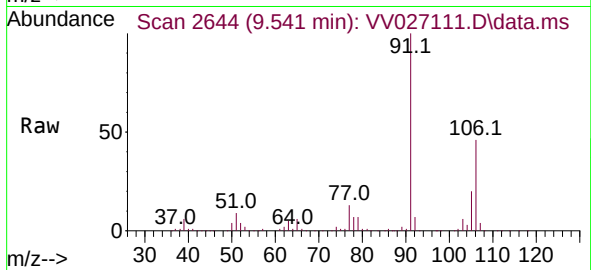




#54
o-Xylene
Concen: 10.749 ug/L
RT: 9.541 min Scan# 20
Delta R.T. -0.000 min
Lab File: VV027111.D
Acq: 30 Jul 2022 02:43

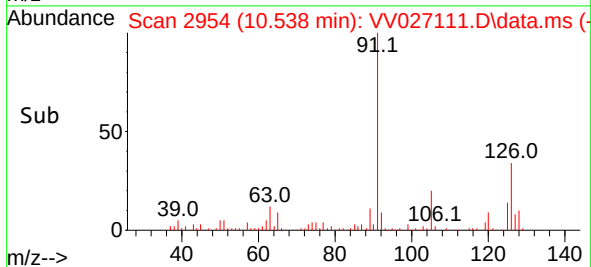
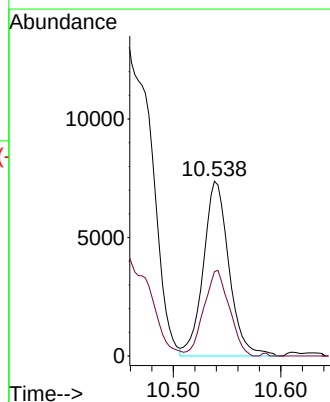
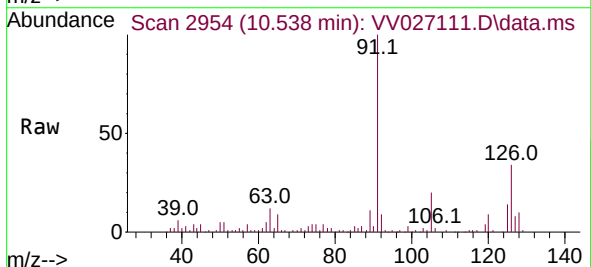
Instrument :
MSVOA_V
ClientSampleId :
EXF07

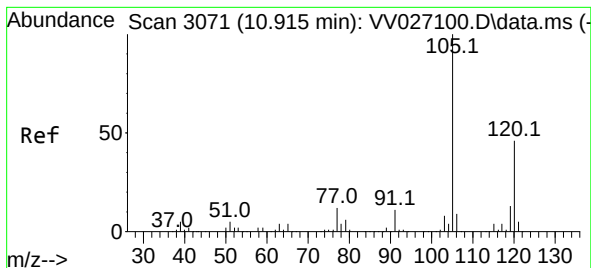
Tgt Ion:106 Resp: 91535
Ion Ratio Lower Upper
106 100
91 219.1 146.6 272.2



#62
1,3,5-Trimethylbenzene
Concen: 1.300 ug/L
RT: 10.538 min Scan# 2954
Delta R.T. -0.000 min
Lab File: VV027111.D
Acq: 30 Jul 2022 02:43

Tgt Ion:105 Resp: 12227
Ion Ratio Lower Upper
105 100
120 48.5 39.3 58.9

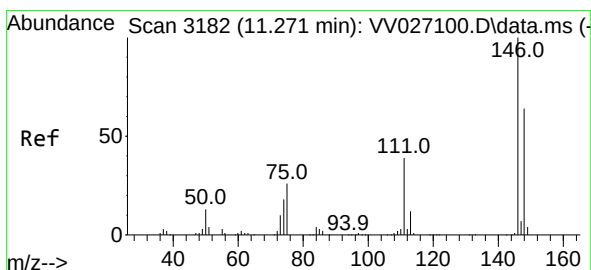
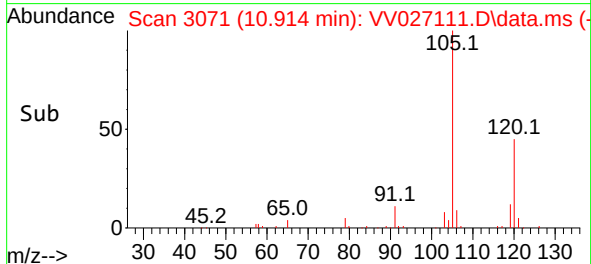
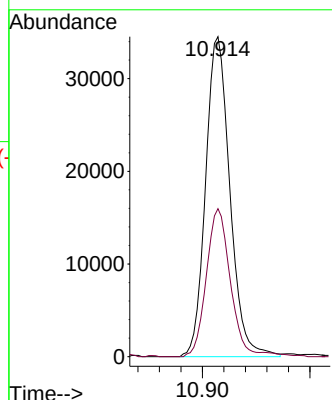
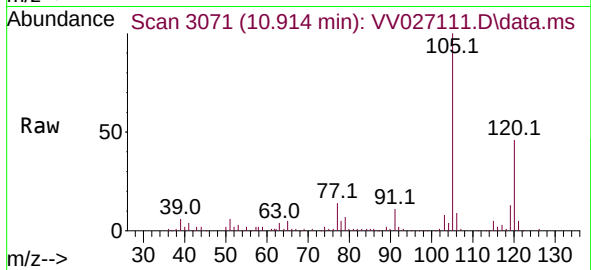




#63
1,2,4-Trimethylbenzene
Concen: 7.232 ug/L
RT: 10.914 min Scan# 3071
Delta R.T. -0.000 min
Lab File: VV027111.D
Acq: 30 Jul 2022 02:43

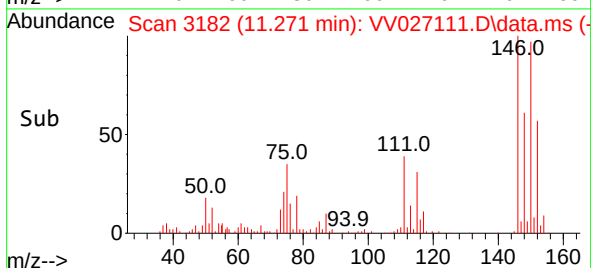
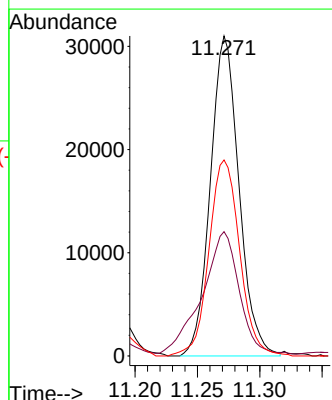
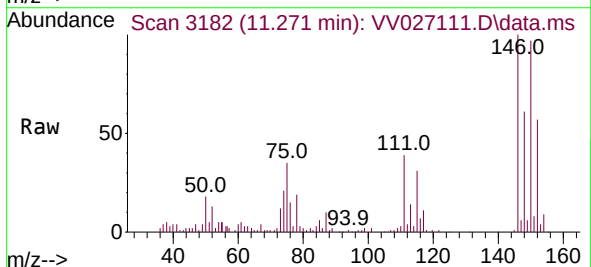
Instrument :
MSVOA_V
ClientSampleId :
EXF07

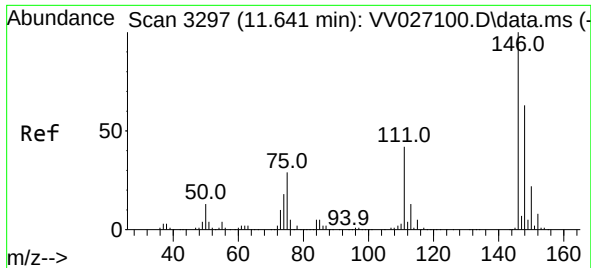
Tgt Ion:105 Resp: 54295
Ion Ratio Lower Upper
105 100
120 45.0 37.0 55.6



#65
1,4-Dichlorobenzene
Concen: 4.408 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. -0.000 min
Lab File: VV027111.D
Acq: 30 Jul 2022 02:43

Tgt Ion:146 Resp: 49566
Ion Ratio Lower Upper
146 100
111 38.9 27.4 51.0
148 61.3 44.6 82.8

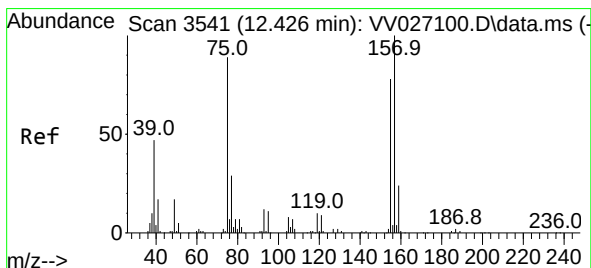
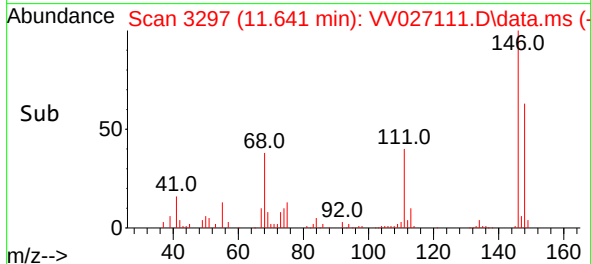
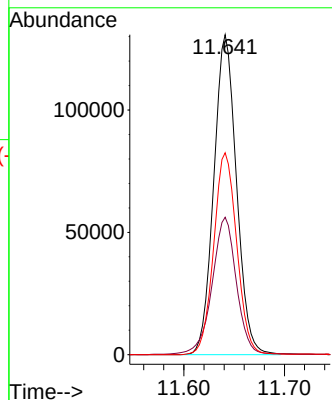
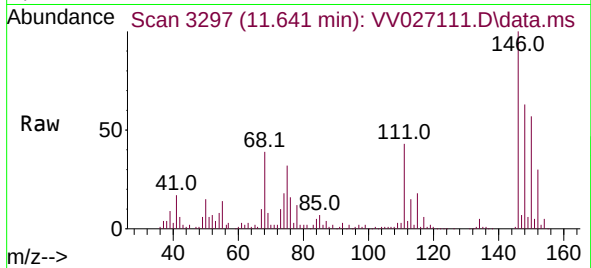




#67
1,2-Dichlorobenzene
Concen: 18.429 ug/L
RT: 11.641 min Scan# 3111
Delta R.T. -0.000 min
Lab File: VV027111.D
Acq: 30 Jul 2022 02:43

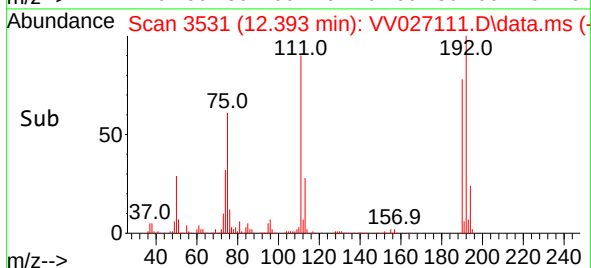
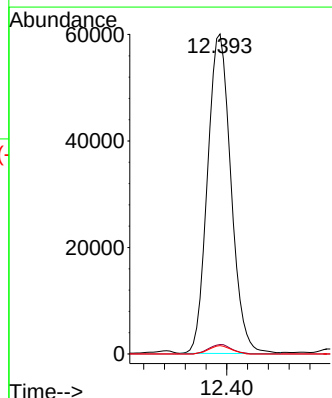
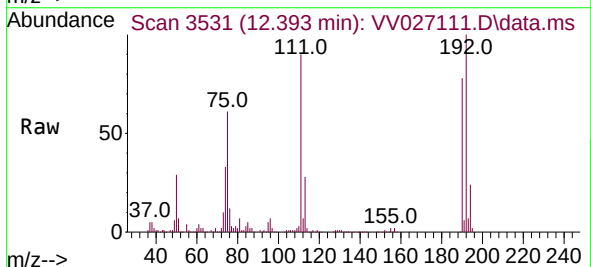
Instrument :
MSVOA_V
ClientSampleId :
EXF07

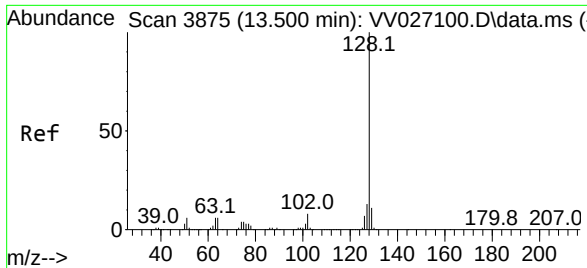
Tgt Ion:146 Resp: 205371
Ion Ratio Lower Upper
146 100
111 42.9 34.0 51.0
148 63.1 50.5 75.7



#68
1,2-Dibromo-3-chloropropane
Concen: 48.474 ug/L
RT: 12.393 min Scan# 3531
Delta R.T. -0.032 min
Lab File: VV027111.D
Acq: 30 Jul 2022 02:43

Tgt Ion: 75 Resp: 93885
Ion Ratio Lower Upper
75 100
155 3.0 69.1 103.7#
157 2.6 87.8 131.8#





#71

Naphthalene

Concen: 1.495 ug/L

RT: 13.503 min Scan# 3876

Delta R.T. 0.003 min

Lab File: VV027111.D

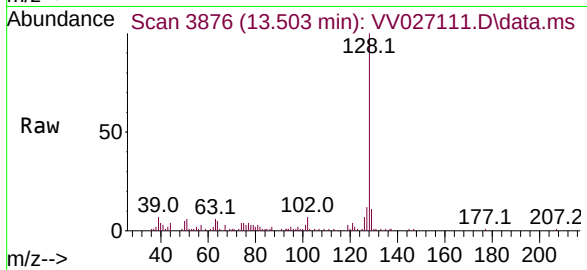
Acq: 30 Jul 2022 02:43

Instrument :

MSVOA_V

ClientSampleId :

EXF07



Tgt Ion:128 Resp: 32217

Ion Ratio Lower Upper

128 100

127 13.8 10.3 15.5

129 13.3 8.6 13.0#

