

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW072922\
 Data File : VW027109.D
 Acq On : 30 Jul 2022 01:54
 Operator : SY/MD
 Sample : N3956-08
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXF05

Quant Time: Jul 30 04:29:45 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	671882	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	657789	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	367662	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	194664	30.454	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	60.900%
7) Chloroethane-d5	1.561	69	166483	32.872	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	65.740%#
11) 1,1-Dichloroethene-d2	2.101	63	283337	26.037	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	52.080%#
21) 2-Butanone-d5	3.886	46	253680	69.600	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	69.600%
24) Chloroform-d	4.342	84	416554	36.183	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.360%
26) 1,2-Dichloroethane-d4	5.027	65	241899	37.014	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	74.020%
32) Benzene-d6	5.047	84	905103	39.183	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	78.360%
36) 1,2-Dichloropropane-d6	6.066	67	272907	38.601	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	77.200%
41) Toluene-d8	7.313	98	798825	38.260	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	76.520%#
43) trans-1,3-Dichloroprop...	7.622	79	117856	37.737	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.480%
47) 2-Hexanone-d5	8.091	63	273591	90.018	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.020%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	401244	37.641	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	75.280%
66) 1,2-Dichlorobenzene-d4	11.622	152	322659	39.039	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	78.080%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.304	62	94339	13.949	ug/L	97
8) Chloroethane	1.494	64	159465	40.157	ug/L #	52
13) Acetone	2.175	43	314202	116.389	ug/L	76
14) Carbon disulfide	2.288	76	16792	1.082	ug/L #	95
16) Methylene chloride	2.500	84	77165	12.370	ug/L	99
19) 1,1-Dichloroethane	3.185	63	73434	7.848	ug/L	98
20) cis-1,2-Dichloroethene	3.908	96	42810	7.726	ug/L	93
22) 2-Butanone	3.985	43	44551	14.959	ug/L	90
27) 1,2-Dichloroethane	5.098	62	226620	33.385	ug/L #	73
29) Cyclohexane	4.670	56	9088	1.286	ug/L #	88
34) Trichloroethene	5.911	95	56457	10.348	ug/L	97
35) Methylcyclohexane	6.159	83	15434	1.896	ug/L #	1
37) 1,2-Dichloropropane	6.172	63	5249	0.989	ug/L	99
40) 4-Methyl-2-pentanone	7.233	43	57980	8.640	ug/L	98
42) Toluene	7.387	91	1125301	51.486	ug/L	99
45) 1,1,2-Trichloroethane	7.789	97	283572	49.923	ug/L #	1
48) 2-Hexanone	8.143	43	160766	30.401	ug/L	95
51) Chlorobenzene	8.882	112	8887087	602.924	ug/L	97
52) Ethylbenzene	9.014	91	16057	0.726	ug/L	99

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

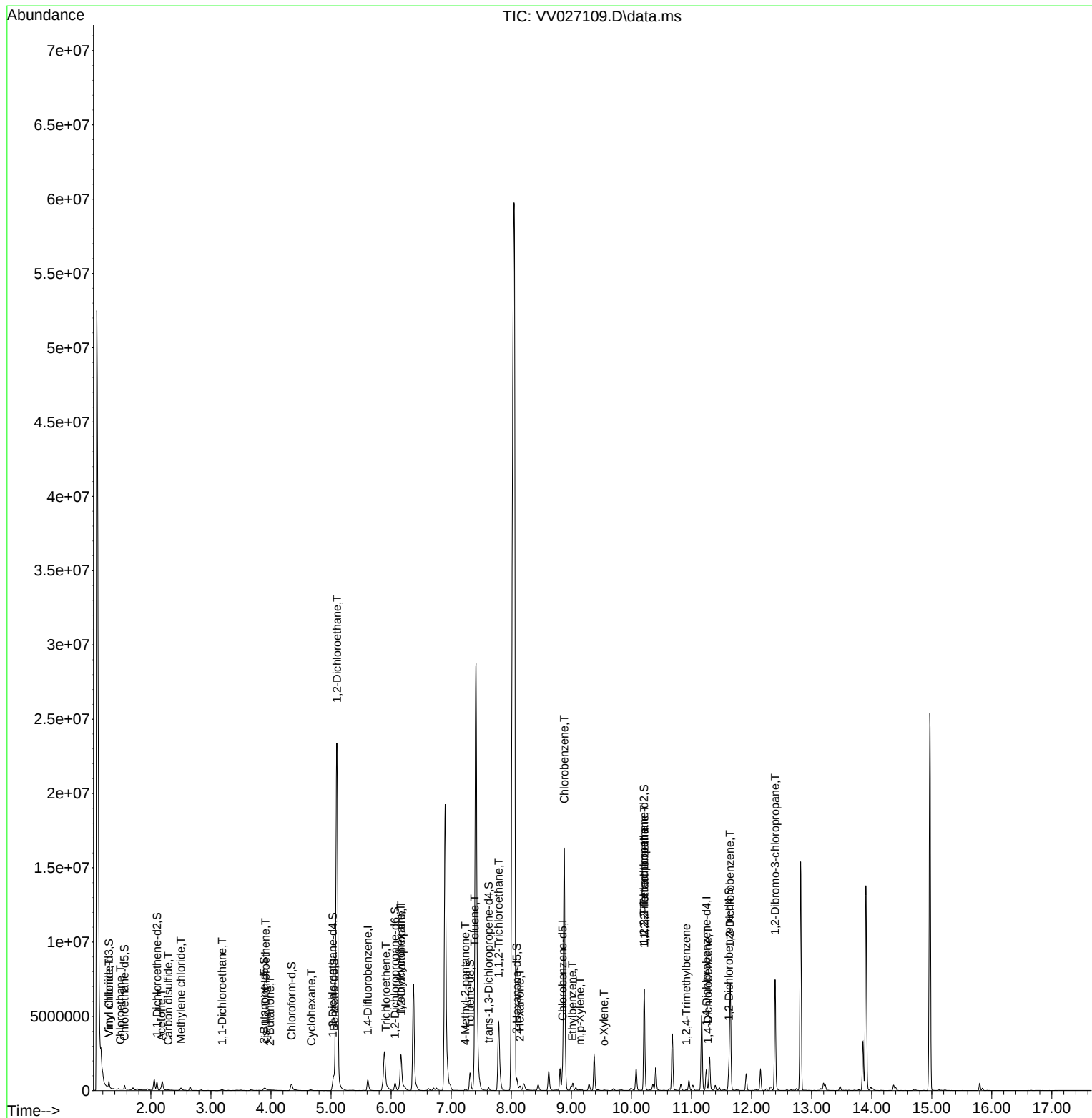
53) m,p-Xylene	9.143	106	13957	1.603	ug/L	96
54) o-Xylene	9.545	106	10986	1.311	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.217	83	6770	0.739	ug/L #	1
61) 1,2,3-Trichloropropane	10.214	75	192651	24.985	ug/L #	1
63) 1,2,4-Trimethylbenzene	10.914	105	15165	1.935	ug/L	99
65) 1,4-Dichlorobenzene	11.275	146	8684	0.740	ug/L	94
67) 1,2-Dichlorobenzene	11.641	146	86748	7.458	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.394	75	1156358	571.993	ug/L #	3

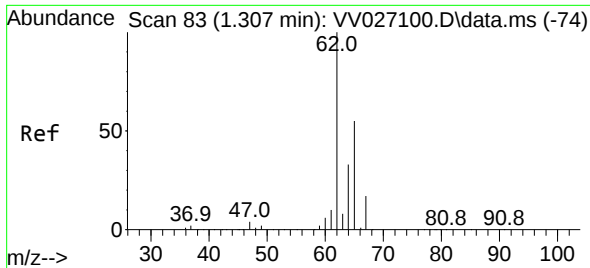
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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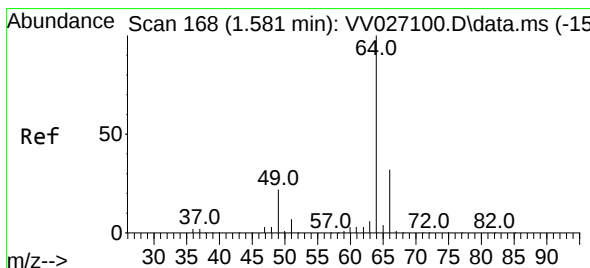
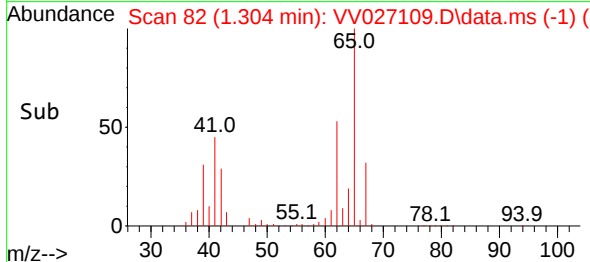
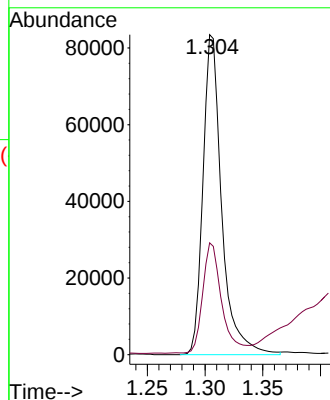
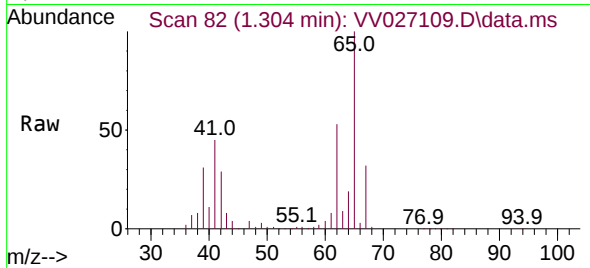




#5
 Vinyl chloride
 Concen: 13.949 ug/L
 RT: 1.304 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VV027109.D
 Acq: 30 Jul 2022 01:54

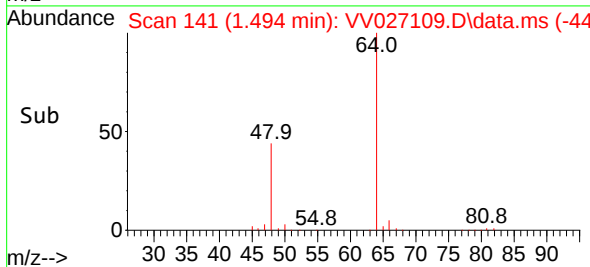
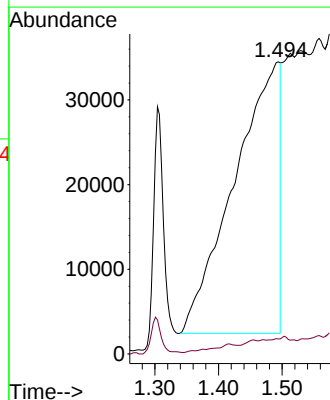
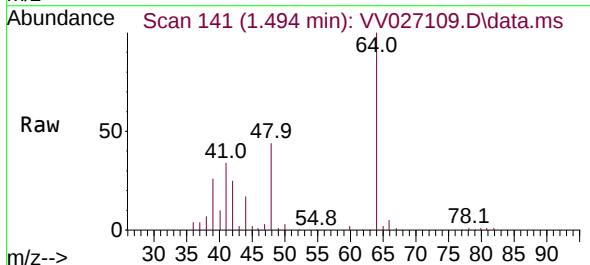
Instrument :
 MSVOA_V
 ClientSampleId :
 EXF05

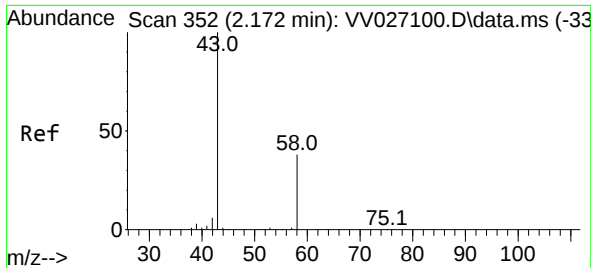
Tgt Ion: 62 Resp: 94339
 Ion Ratio Lower Upper
 62 100
 64 35.0 23.2 43.2



#8
 Chloroethane
 Concen: 40.157 ug/L
 RT: 1.494 min Scan# 141
 Delta R.T. -0.087 min
 Lab File: VV027109.D
 Acq: 30 Jul 2022 01:54

Tgt Ion: 64 Resp: 159465
 Ion Ratio Lower Upper
 64 100
 66 5.2 22.4 41.6#





#13

Acetone

Concen: 116.389 ug/L

RT: 2.175 min Scan# 352

Delta R.T. 0.003 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

Instrument :

MSVOA_V

ClientSampleId :

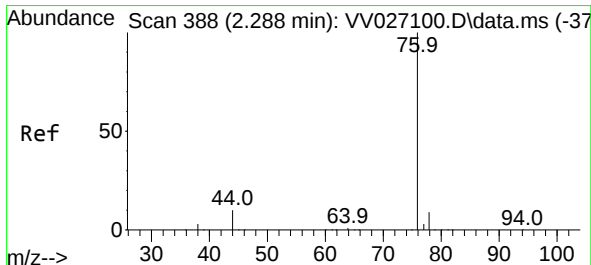
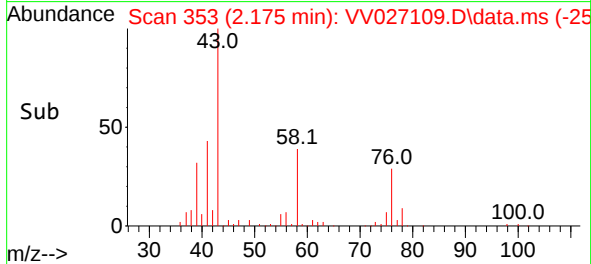
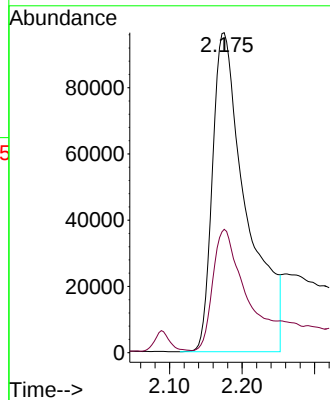
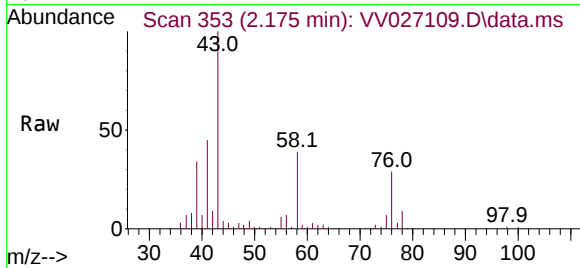
EXF05

Tgt Ion: 43 Resp: 314202

Ion Ratio Lower Upper

43 100

58 36.9 0.0 49.6



#14

Carbon disulfide

Concen: 1.082 ug/L

RT: 2.288 min Scan# 388

Delta R.T. -0.000 min

Lab File: VV027109.D

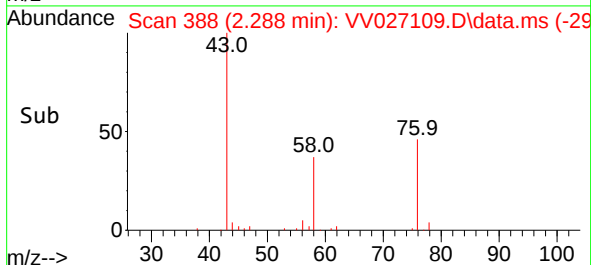
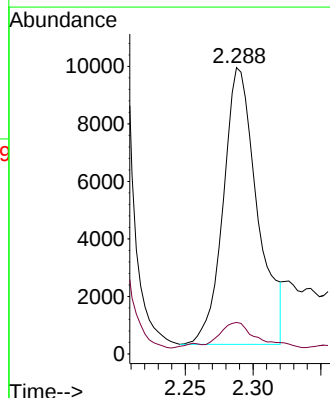
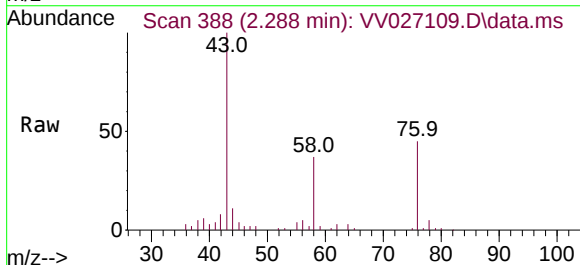
Acq: 30 Jul 2022 01:54

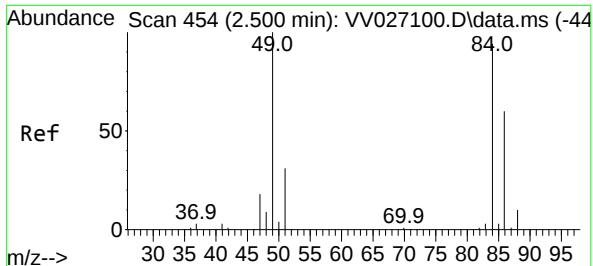
Tgt Ion: 76 Resp: 16792

Ion Ratio Lower Upper

76 100

78 11.0 7.3 10.9#

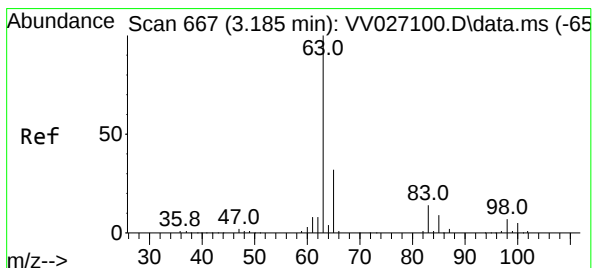
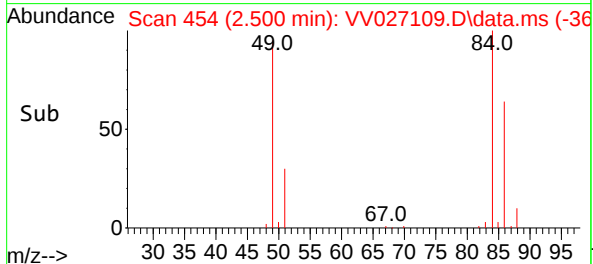
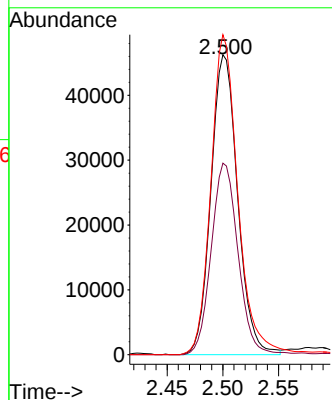
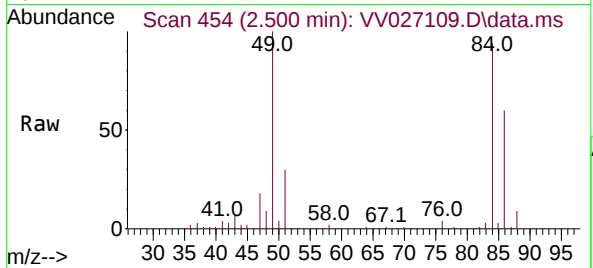




#16
Methylene chloride
Concen: 12.370 ug/L
RT: 2.500 min Scan# 454
Delta R.T. -0.000 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

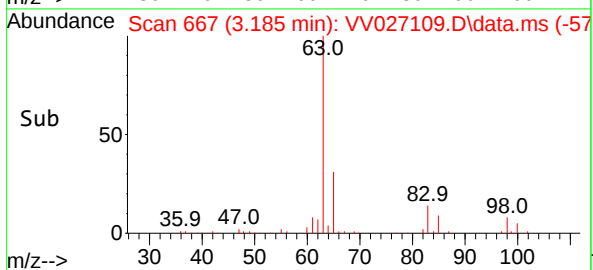
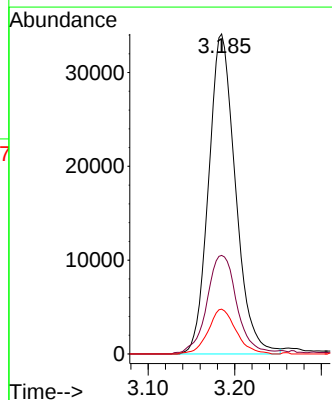
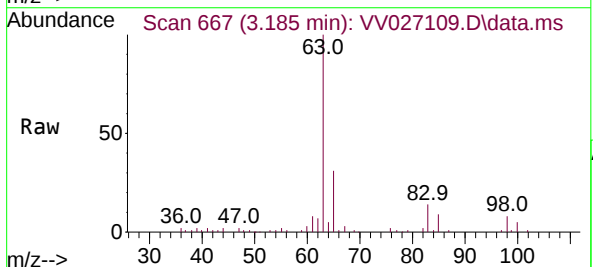
Instrument :
MSVOA_V
ClientSampleId :
EXF05

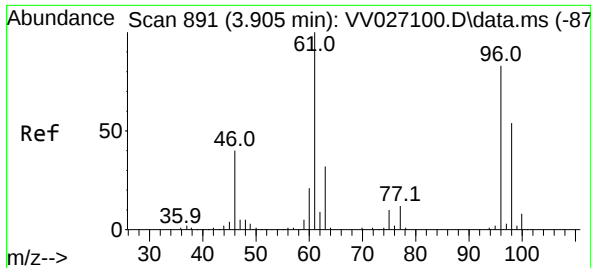
Tgt Ion: 84 Resp: 77165
Ion Ratio Lower Upper
84 100
86 63.8 45.0 83.6
49 106.6 74.1 137.7



#19
1,1-Dichloroethane
Concen: 7.848 ug/L
RT: 3.185 min Scan# 667
Delta R.T. -0.000 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

Tgt Ion: 63 Resp: 73434
Ion Ratio Lower Upper
63 100
65 30.8 22.7 42.3
83 14.0 9.5 17.7

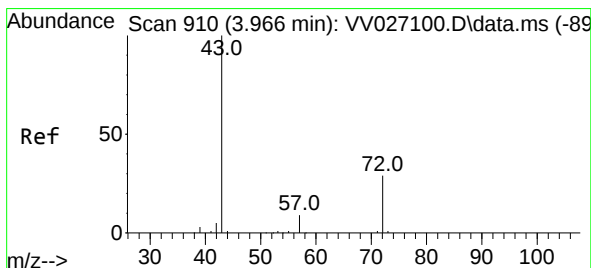
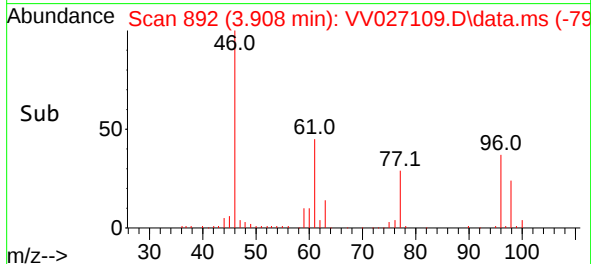
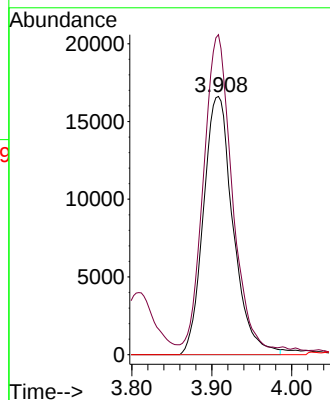
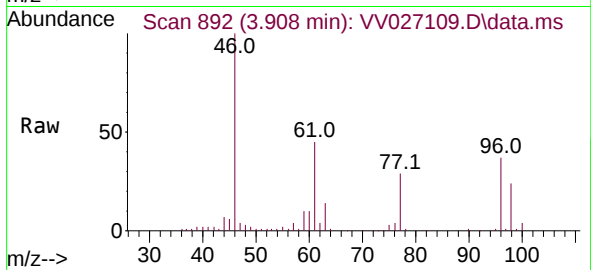




#20
 cis-1,2-Dichloroethene
 Concen: 7.726 ug/L
 RT: 3.908 min Scan# 891
 Delta R.T. 0.003 min
 Lab File: VV027109.D
 Acq: 30 Jul 2022 01:54

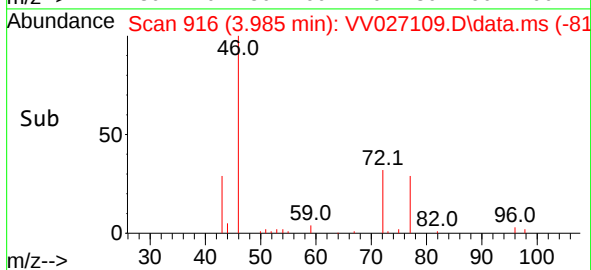
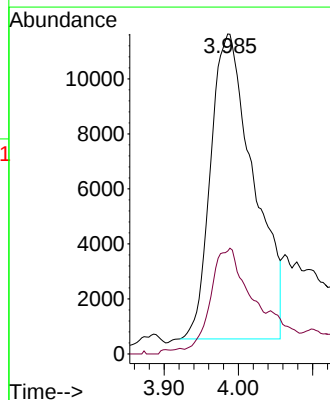
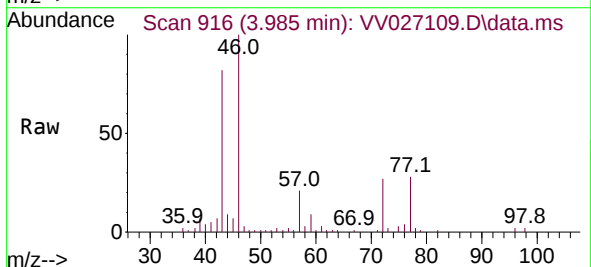
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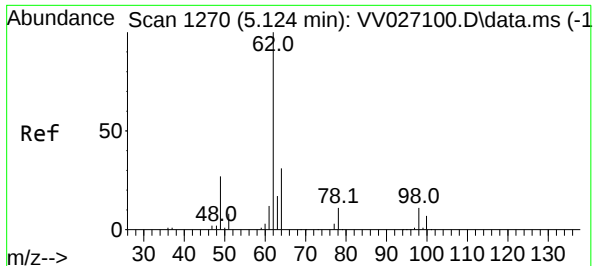
Tgt Ion: 96 Resp: 42810
 Ion Ratio Lower Upper
 96 100
 61 123.9 81.8 151.8
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 14.959 ug/L
 RT: 3.985 min Scan# 916
 Delta R.T. 0.019 min
 Lab File: VV027109.D
 Acq: 30 Jul 2022 01:54

Tgt Ion: 43 Resp: 44551
 Ion Ratio Lower Upper
 43 100
 72 28.7 11.9 35.7





#27

1,2-Dichloroethane

Concen: 33.385 ug/L

RT: 5.098 min Scan# 1129

Delta R.T. -0.026 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

Instrument :

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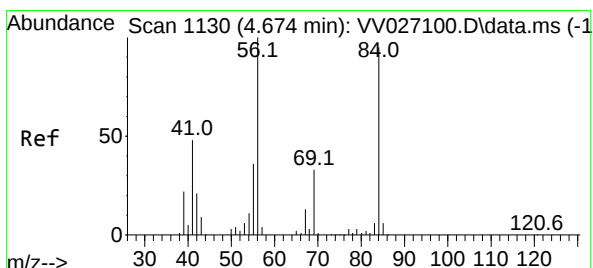
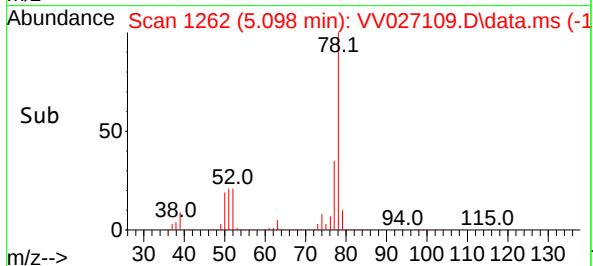
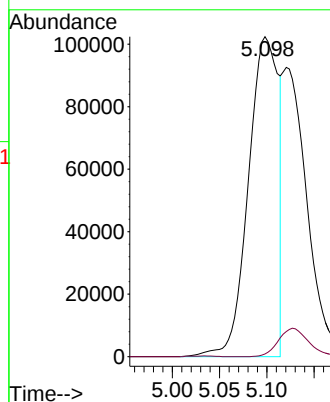
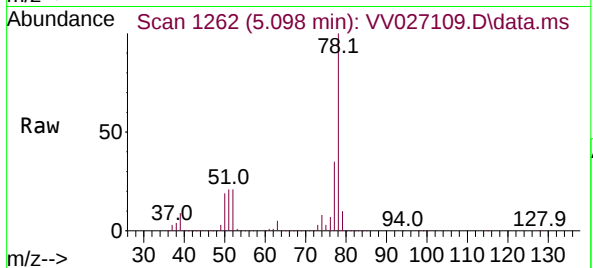
EXF05

Tgt Ion: 62 Resp: 226620

Ion Ratio Lower Upper

62 100

98 0.8 9.0 13.6#



#29

Cyclohexane

Concen: 1.286 ug/L

RT: 4.670 min Scan# 1129

Delta R.T. -0.003 min

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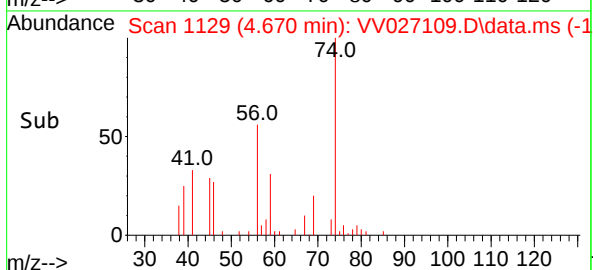
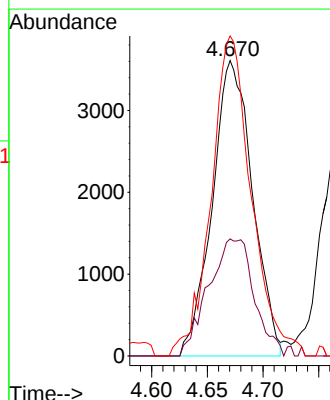
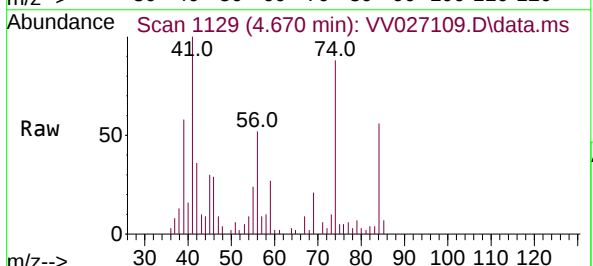
Tgt Ion: 56 Resp: 9088

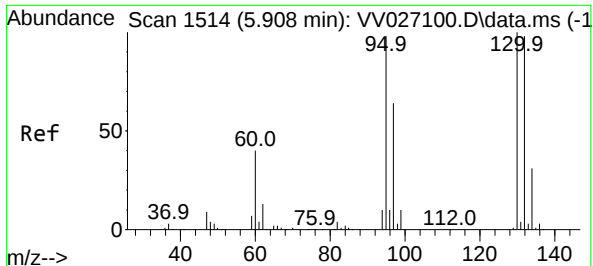
Ion Ratio Lower Upper

56 100

69 25.8 25.9 38.9#

84 105.7 75.3 112.9





#34

Trichloroethene

Concen: 10.348 ug/L

RT: 5.911 min Scan# 1515

Delta R.T. 0.003 min

Lab File: VV027109.D

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Instrument :

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EXF05

Tgt Ion: 95 Resp: 56457

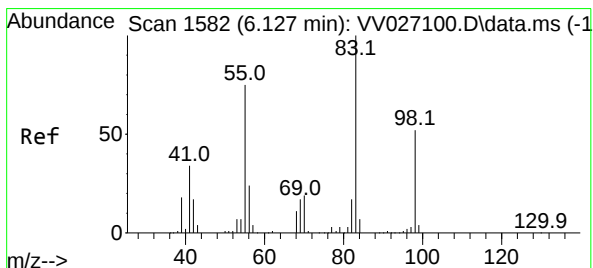
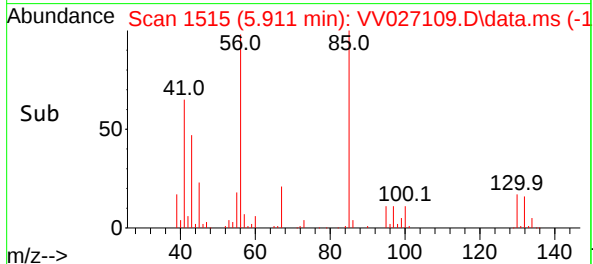
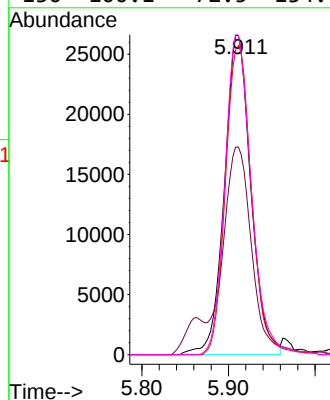
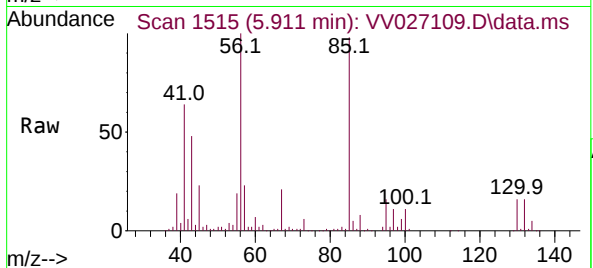
Ion Ratio Lower Upper

95 100

97 65.1 45.9 85.3

132 96.8 69.8 129.6

130 100.1 72.5 134.7



#35

Methylcyclohexane

Concen: 1.896 ug/L

RT: 6.159 min Scan# 1592

Delta R.T. 0.032 min

Lab File: VV027109.D

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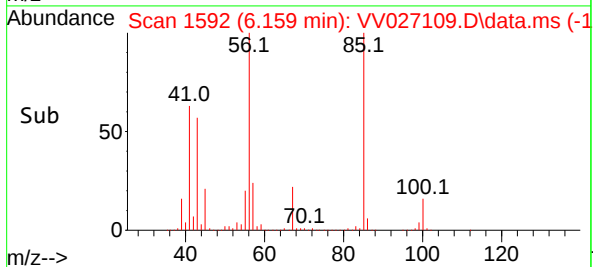
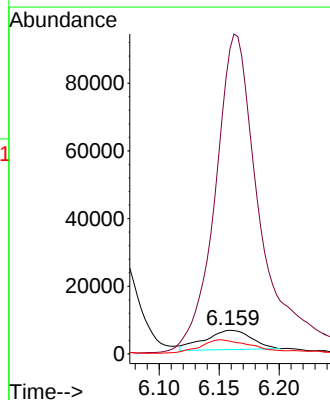
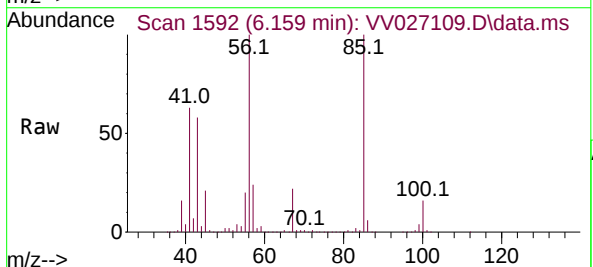
Tgt Ion: 83 Resp: 15434

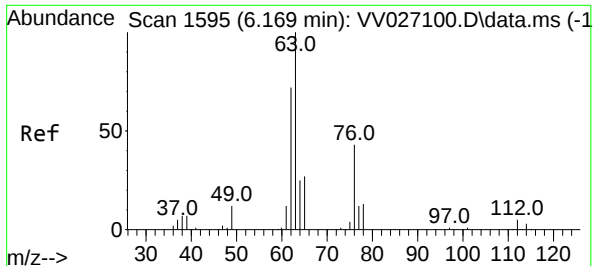
Ion Ratio Lower Upper

83 100

55 1621.7 55.5 83.3#

98 77.4 39.0 58.4#





#37

1,2-Dichloropropane

Concen: 0.989 ug/L

RT: 6.172 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

Instrument :

MSVOA_V

ClientSampleId :

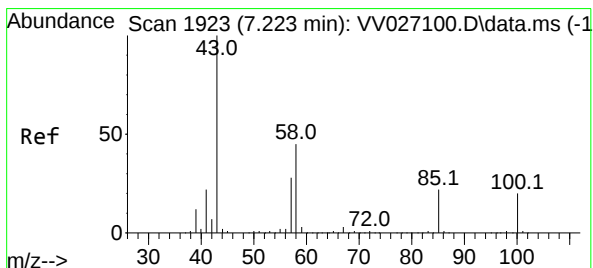
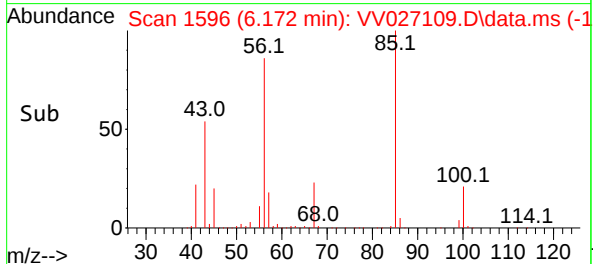
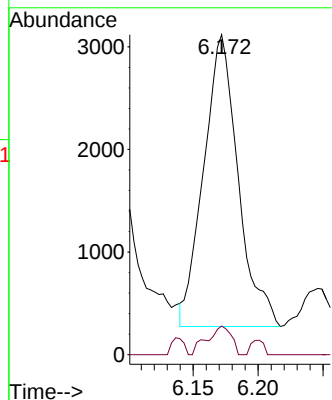
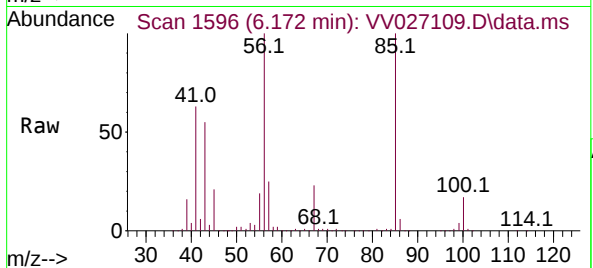
EXF05

Tgt Ion: 63 Resp: 5249

Ion Ratio Lower Upper

63 100

112 4.8 3.7 5.5



#40

4-Methyl-2-pentanone

Concen: 8.640 ug/L

RT: 7.233 min Scan# 1926

Delta R.T. 0.010 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

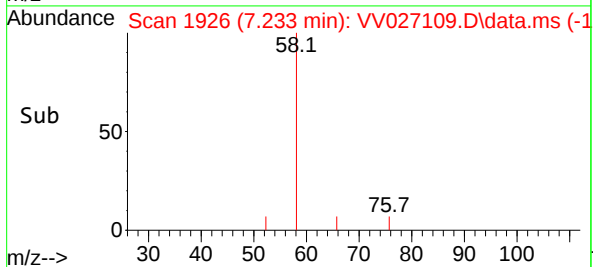
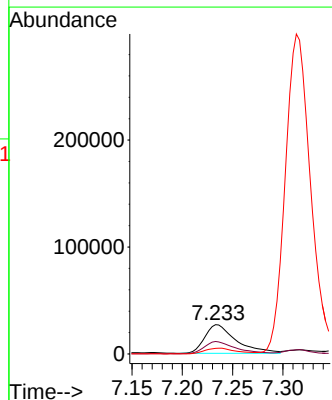
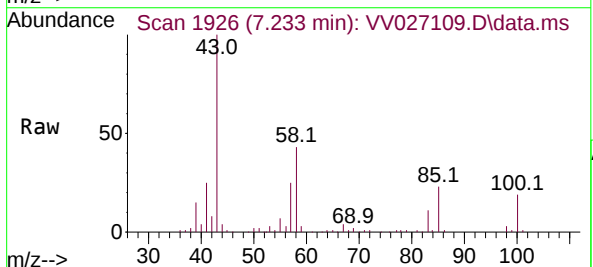
Tgt Ion: 43 Resp: 57980

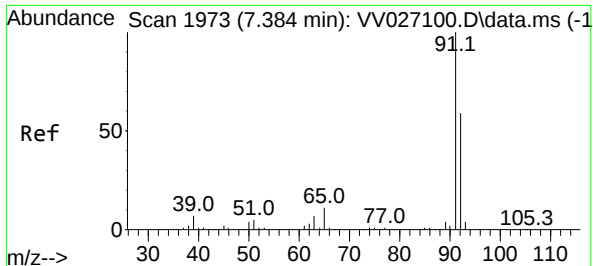
Ion Ratio Lower Upper

43 100

58 42.3 35.3 52.9

100 19.3 15.7 23.5





#42

Toluene

Concen: 51.486 ug/L

RT: 7.387 min Scan# 1973

Delta R.T. 0.003 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

Instrument :

MSVOA_V

ClientSampleId :

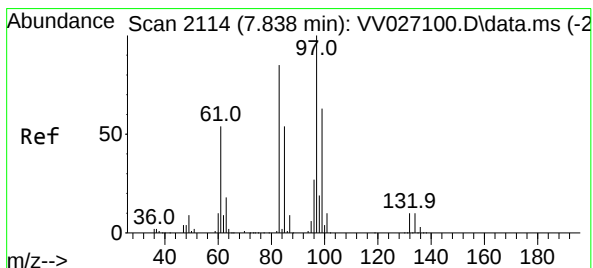
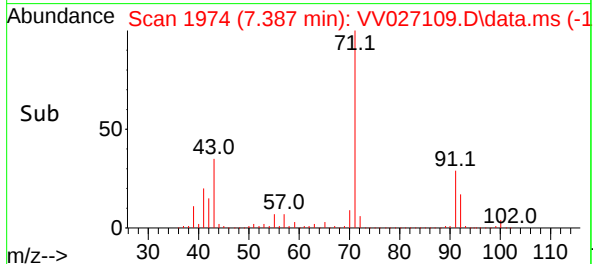
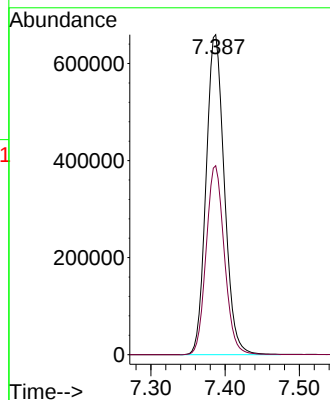
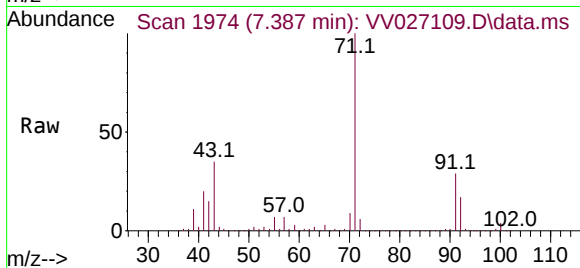
EXF05

Tgt Ion: 91 Resp: 1125301

Ion Ratio Lower Upper

91 100

92 59.0 40.9 76.0



#45

1,1,2-Trichloroethane

Concen: 49.923 ug/L

RT: 7.789 min Scan# 2099

Delta R.T. -0.048 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

Tgt Ion: 97 Resp: 283572

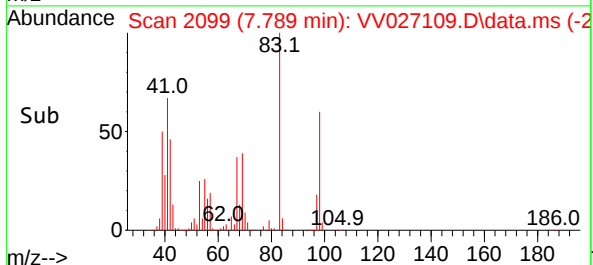
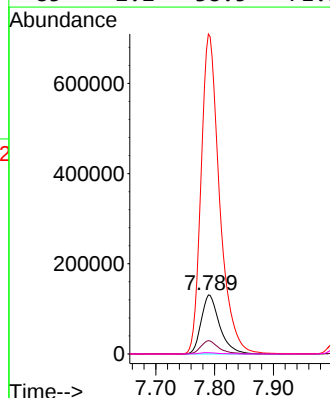
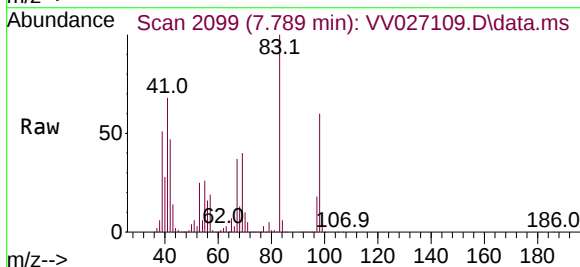
Ion Ratio Lower Upper

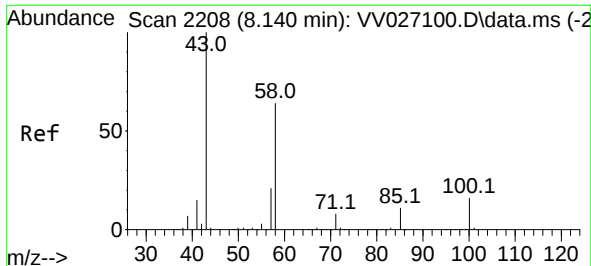
97 100

99 22.4 43.2 80.2#

83 541.8 58.0 107.6#

85 2.2 38.5 71.5#





#48

2-Hexanone

Concen: 30.401 ug/L

RT: 8.143 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

Instrument :

MSVOA_V

ClientSampleId :

EXF05

Tgt Ion: 43 Resp: 160766

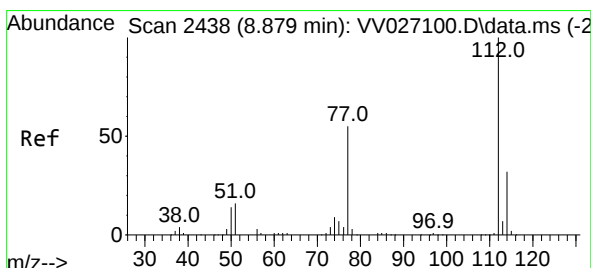
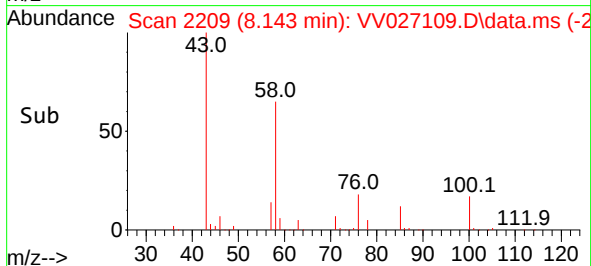
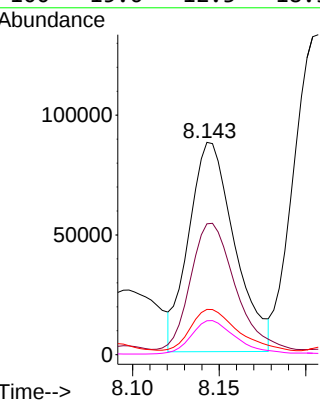
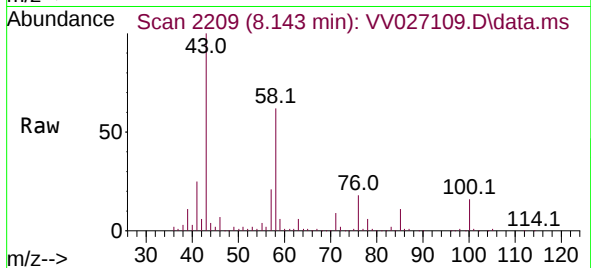
Ion Ratio Lower Upper

43 100

58 58.9 50.8 76.2

57 22.9 17.1 25.7

100 15.6 12.3 18.5



#51

Chlorobenzene

Concen: 602.924 ug/L

RT: 8.882 min Scan# 2439

Delta R.T. 0.003 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

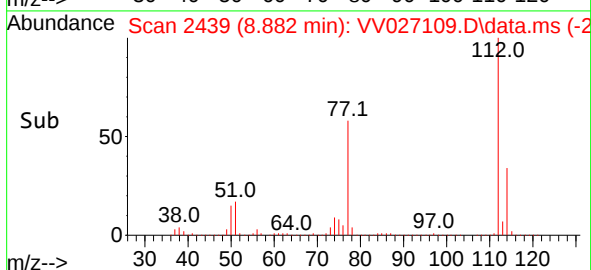
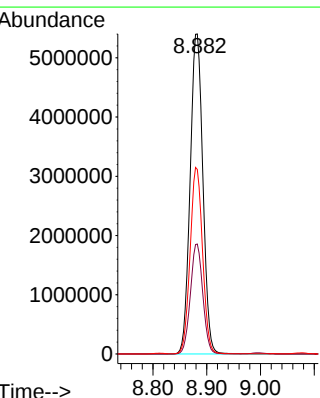
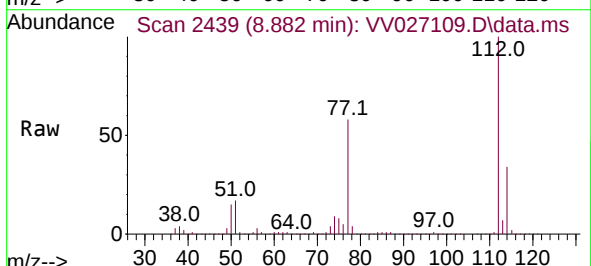
Tgt Ion: 112 Resp: 8887087

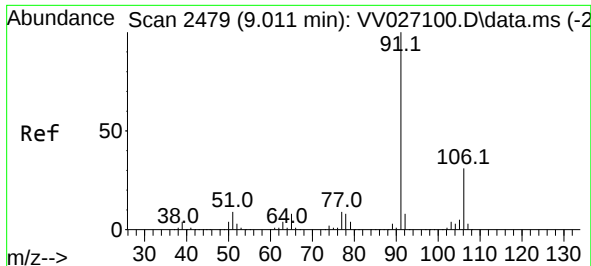
Ion Ratio Lower Upper

112 100

114 34.4 22.8 42.4

77 57.7 44.2 66.2

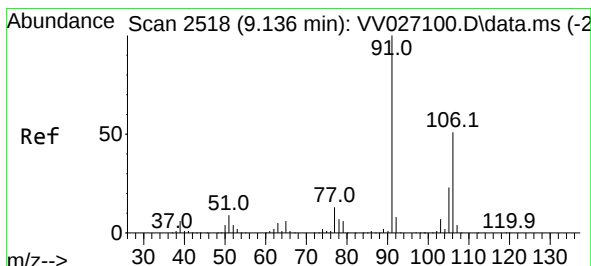
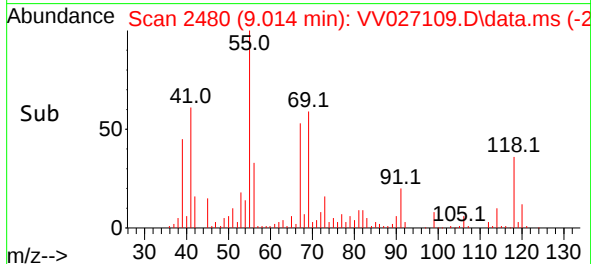
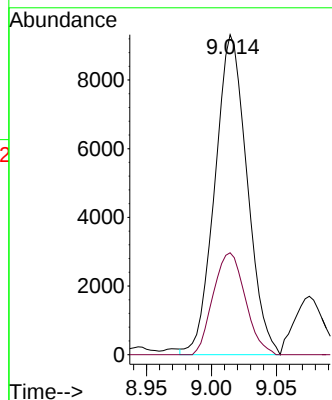
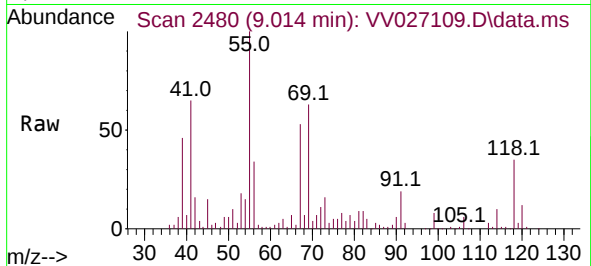




#52
Ethylbenzene
Concen: 0.726 ug/L
RT: 9.014 min Scan# 2479
Delta R.T. 0.003 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

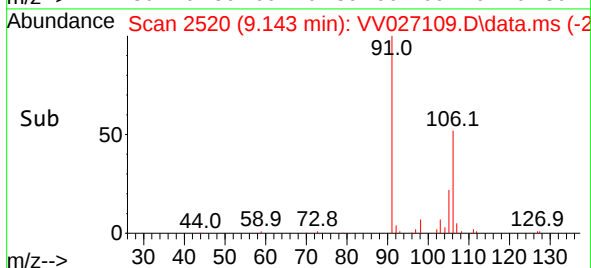
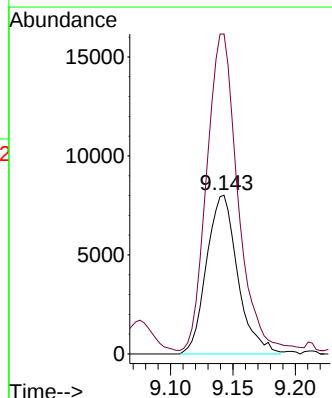
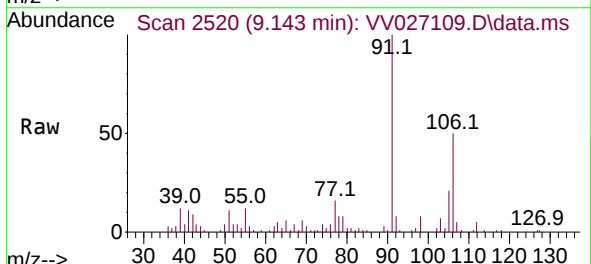
Instrument :
MSVOA_V
ClientSampleId :
EXF05

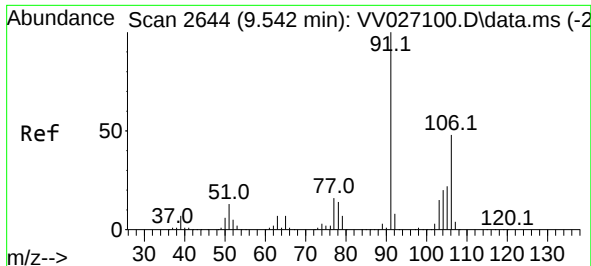
Tgt Ion: 91 Resp: 16057
Ion Ratio Lower Upper
91 100
106 31.9 21.8 40.6



#53
m,p-Xylene
Concen: 1.603 ug/L
RT: 9.143 min Scan# 2520
Delta R.T. 0.006 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

Tgt Ion: 106 Resp: 13957
Ion Ratio Lower Upper
106 100
91 201.7 137.5 255.3

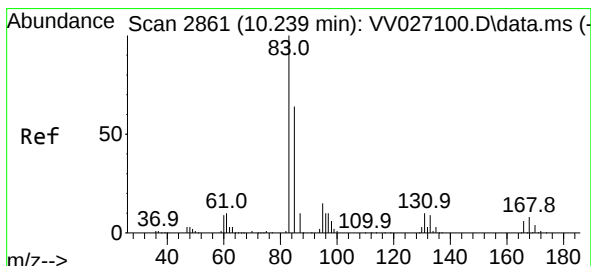
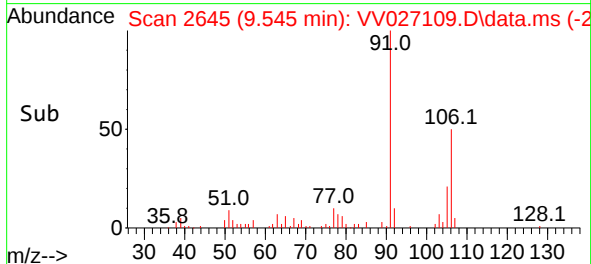
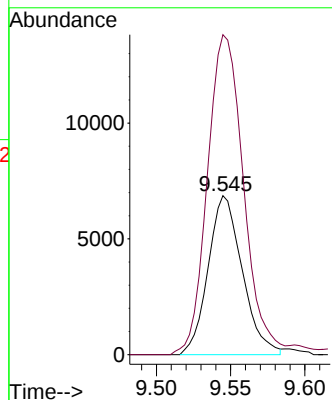
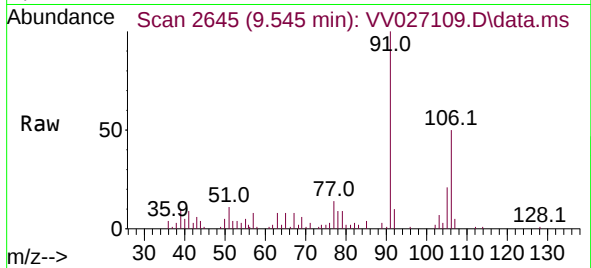




#54
o-Xylene
Concen: 1.311 ug/L
RT: 9.545 min Scan# 210
Delta R.T. 0.003 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

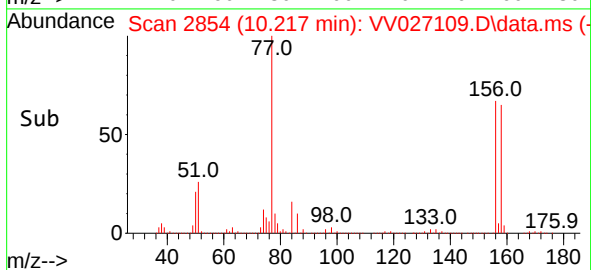
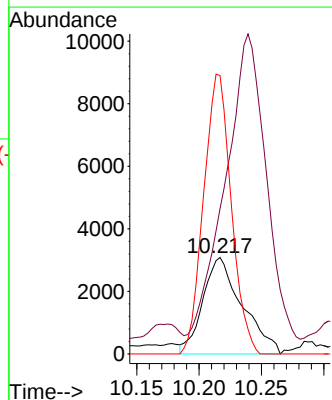
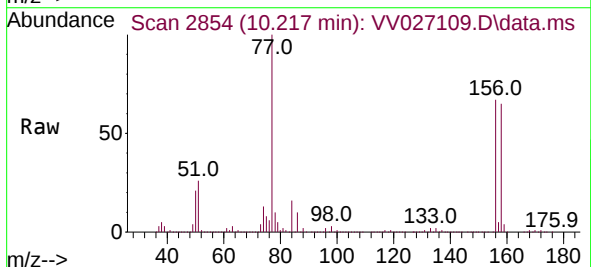
Instrument :
MSVOA_V
ClientSampleId :
EXF05

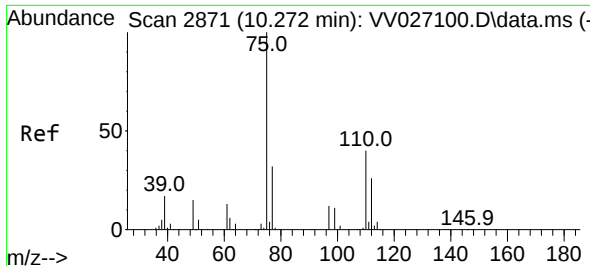
Tgt Ion:106 Resp: 10986
Ion Ratio Lower Upper
106 100
91 201.1 146.6 272.2



#57
1,1,2,2-Tetrachloroethane
Concen: 0.739 ug/L
RT: 10.217 min Scan# 2854
Delta R.T. -0.023 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

Tgt Ion: 83 Resp: 6770
Ion Ratio Lower Upper
83 100
85 150.5 45.2 84.0#
131 288.5 8.1 12.1#

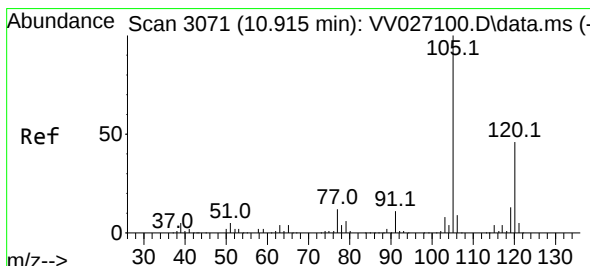
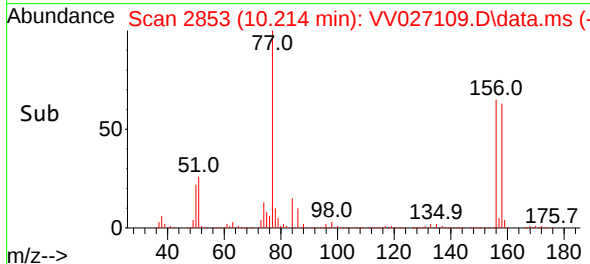
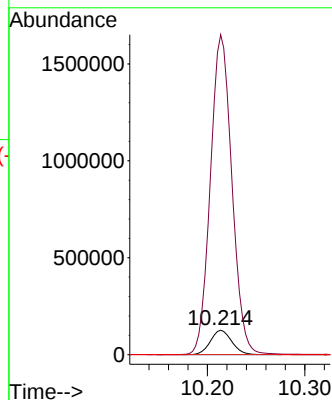
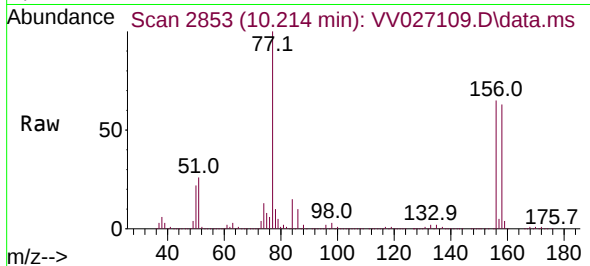




#61
1,2,3-Trichloropropane
Concen: 24.985 ug/L
RT: 10.214 min Scan# 2853
Delta R.T. -0.058 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

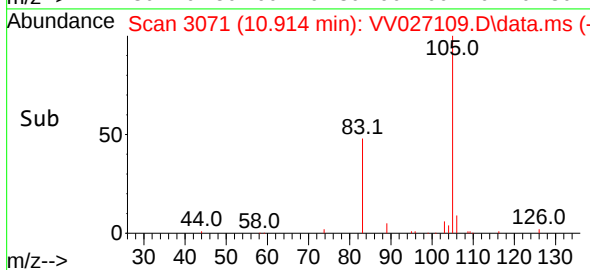
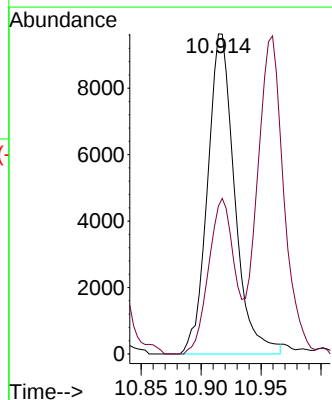
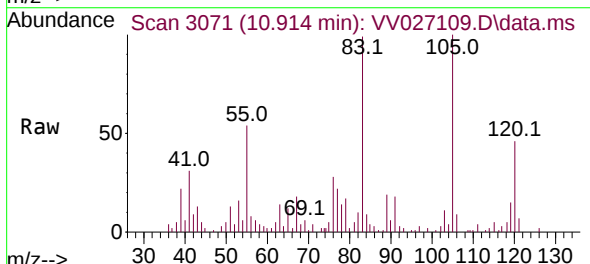
Instrument :
MSVOA_V
ClientSampleId :
EXF05

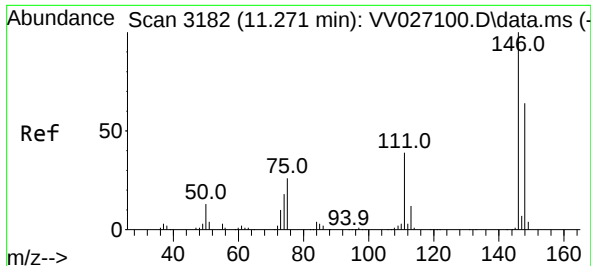
Tgt Ion: 75 Resp: 192651
Ion Ratio Lower Upper
75 100
77 1315.2 25.8 38.8#
110 0.0 32.7 49.1#



#63
1,2,4-Trimethylbenzene
Concen: 1.935 ug/L
RT: 10.914 min Scan# 3071
Delta R.T. -0.000 min
Lab File: VV027109.D
Acq: 30 Jul 2022 01:54

Tgt Ion: 105 Resp: 15165
Ion Ratio Lower Upper
105 100
120 45.6 37.0 55.6





#65

1,4-Dichlorobenzene

Concen: 0.740 ug/L

RT: 11.275 min Scan# 3182

Delta R.T. 0.003 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

Instrument :

MSVOA_V

ClientSampleId :

EXF05

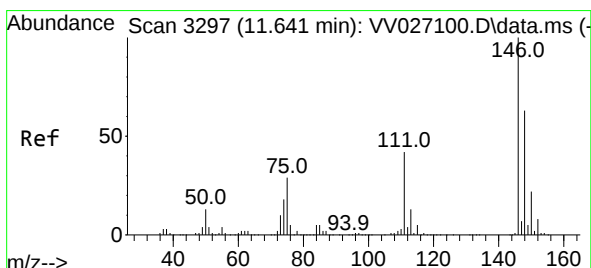
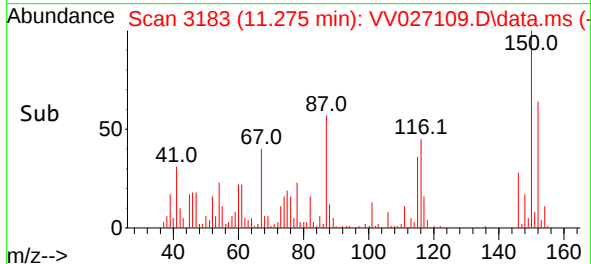
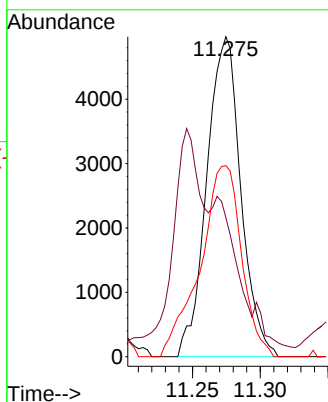
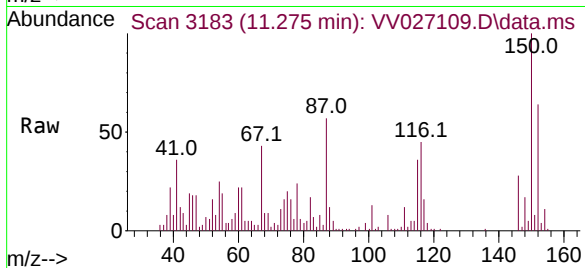
Tgt Ion:146 Resp: 8684

Ion Ratio Lower Upper

146 100

111 43.5 27.4 51.0

148 59.7 44.6 82.8



#67

1,2-Dichlorobenzene

Concen: 7.458 ug/L

RT: 11.641 min Scan# 3297

Delta R.T. -0.000 min

Lab File: VV027109.D

Acq: 30 Jul 2022 01:54

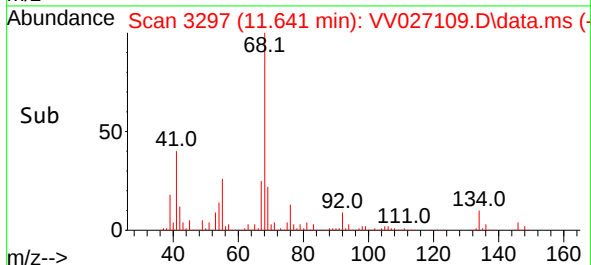
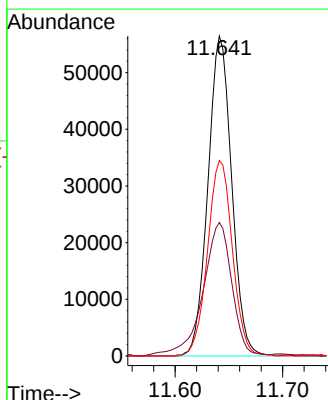
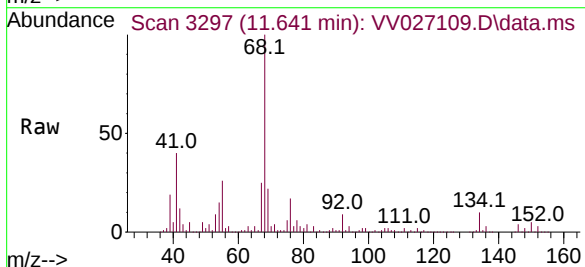
Tgt Ion:146 Resp: 86748

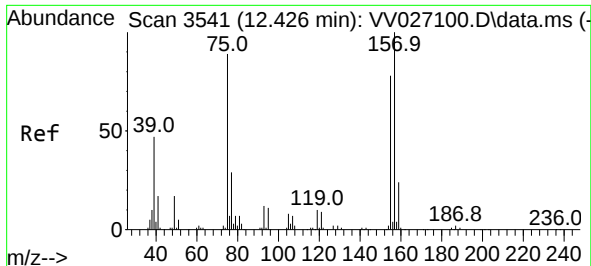
Ion Ratio Lower Upper

146 100

111 41.7 34.0 51.0

148 61.0 50.5 75.7





#68

1,2-Dibromo-3-chloropropane

Concen: 571.993 ug/L

RT: 12.394 min Scan# 31

Delta R.T. -0.032 min

Lab File: VV027109.D

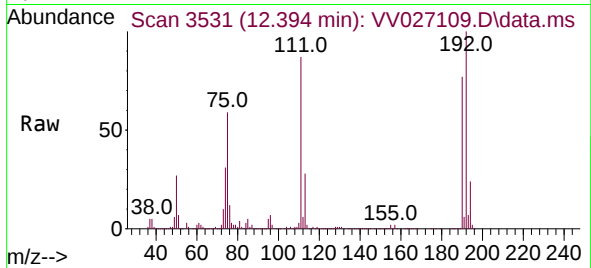
Acq: 30 Jul 2022 01:54

Instrument :

MSVOA_V

ClientSampleId :

EXF05



Tgt Ion: 75 Resp: 1156358

Ion Ratio Lower Upper

75 100

155 3.0 69.1 103.7#

157 2.6 87.8 131.8#

