

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031528.D
 Acq On : 15 Jun 2023 14:04
 Operator : SY/MD
 Sample : 03249-04
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS6

Quant Time: Jun 16 02:47:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	170980	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	170047	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	90027	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	50000	43.940	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.880%
7) Chloroethane-d5	1.539	69	44304	44.622	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.240%
11) 1,1-Dichloroethene-d2	2.066	65	25142	42.870	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.740%
21) 2-Butanone-d5	3.799	46	113002	122.640	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.640%
24) Chloroform-d	4.259	84	124597	43.721	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.440%
26) 1,2-Dichloroethane-d4	4.950	65	84016	47.119	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.240%
32) Benzene-d6	4.969	84	221463	46.269	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.540%
36) 1,2-Dichloropropane-d6	5.998	67	81480	48.029	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.060%
41) Toluene-d8	7.249	98	186557	42.473	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.940%
43) trans-1,3-Dichloroprop...	7.558	79	37808	45.716	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.440%
47) 2-Hexanone-d5	8.030	63	77804	116.156	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.160%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	123833	48.360	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.720%
66) 1,2-Dichlorobenzene-d4	11.567	152	85407	49.769	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.540%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.288	62	139352	82.144	ug/L	96
8) Chloroethane	1.555	64	357370	326.160	ug/L	95
12) 1,1-Dichloroethene	2.076	96	6938	5.484	ug/L #	1
17) trans-1,2-Dichloroethene	2.706	96	9532	7.218	ug/L	99
19) 1,1-Dichloroethane	3.121	63	1170929	410.825	ug/L	99
20) cis-1,2-Dichloroethene	3.825	96	464424	325.422	ug/L	95
27) 1,2-Dichloroethane	5.063	62	4882	2.135	ug/L	99
30) 1,1,1-Trichloroethane	4.522	97	398679	146.231	ug/L	99
31) Carbon tetrachloride	4.522	117	47799	19.787	ug/L	98
34) Trichloroethene	5.844	95	7618	5.036	ug/L	95
35) Methylcyclohexane	5.995	83	19142	8.587	ug/L #	15
42) Toluene	7.326	91	42771	7.286	ug/L	97
44) trans-1,3-Dichloropropene	7.558	75	1845	0.768	ug/L #	69
46) Tetrachloroethene	7.911	164	15369	12.944	ug/L	92
52) Ethylbenzene	8.953	91	29227	4.462	ug/L	98
53) m,p-Xylene	9.079	106	12722	5.304	ug/L	96
54) o-Xylene	9.487	106	9562	4.201	ug/L	98
60) Isopropylbenzene	9.876	105	4791	0.835	ug/L	96
62) 1,3,5-Trimethylbenzene	10.484	105	10231	2.157	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Fri Jun 16 02:44:48 2023
Response via : Initial Calibration

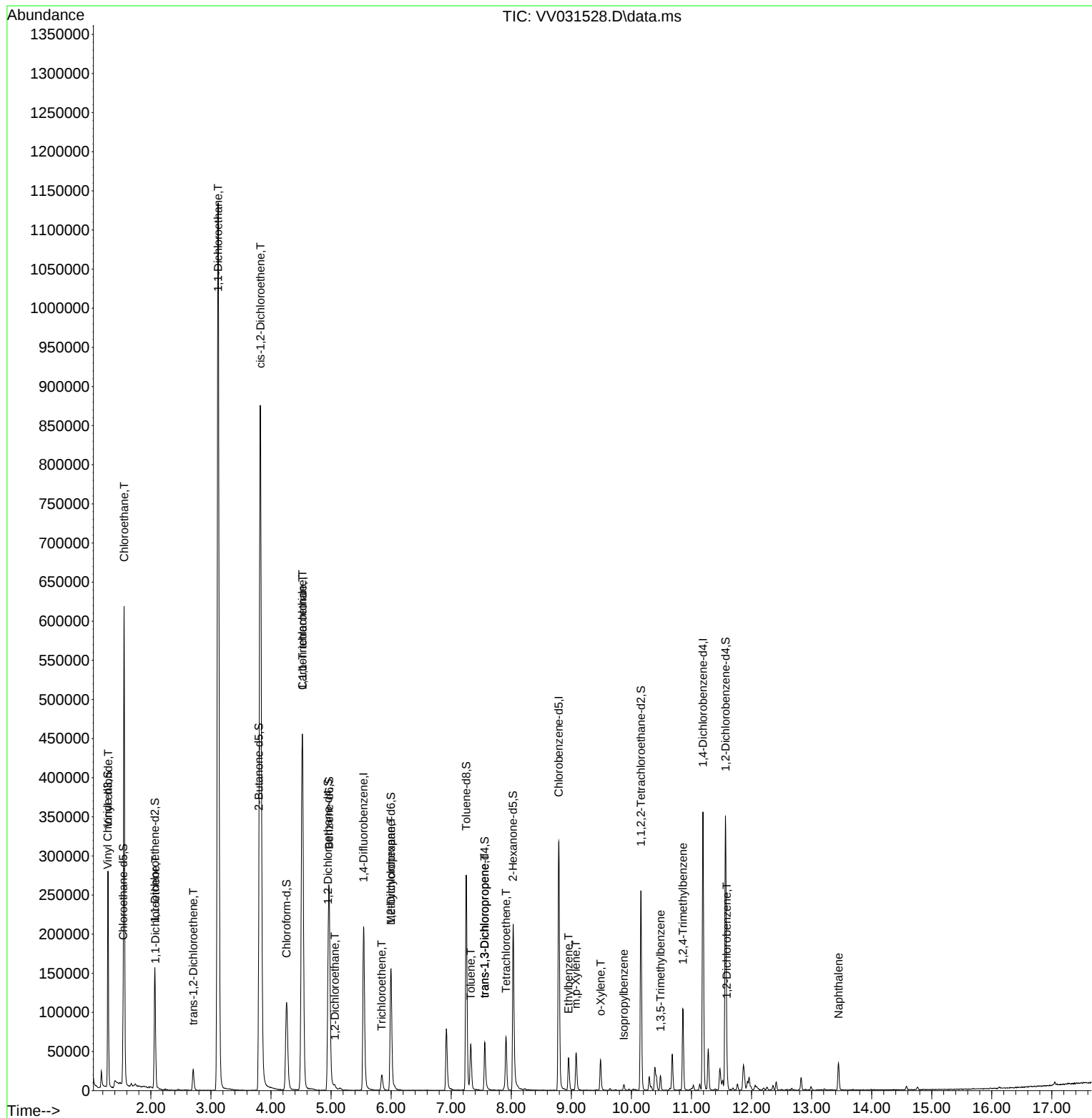
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.857	105	55614	12.583	ug/L	98
67) 1,2-Dichlorobenzene	11.590	146	5036	1.734	ug/L	86
71) Naphthalene	13.448	128	27471	5.643	ug/L	99

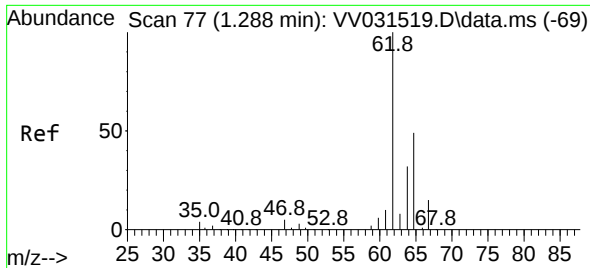
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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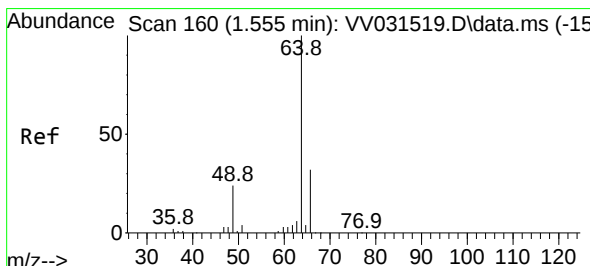
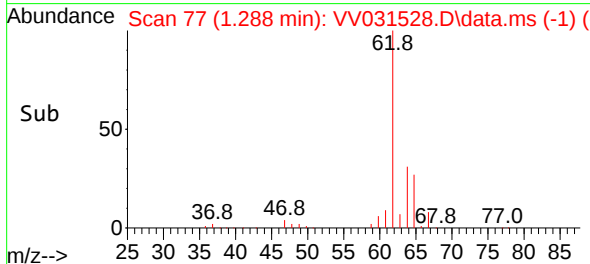
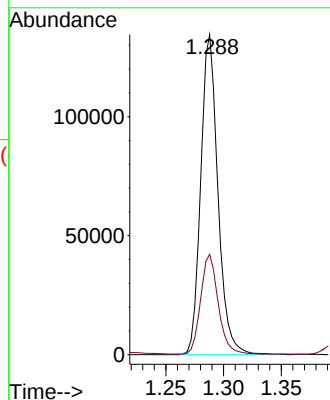
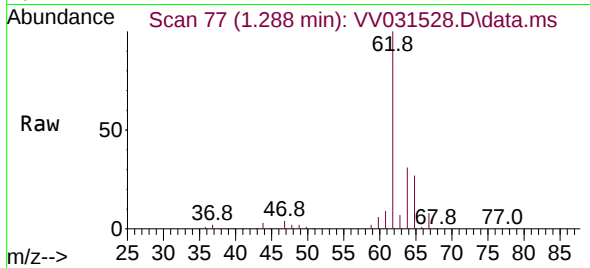




#5
 Vinyl chloride
 Concen: 82.144 ug/L
 RT: 1.288 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VV031528.D
 Acq: 15 Jun 2023 14:04

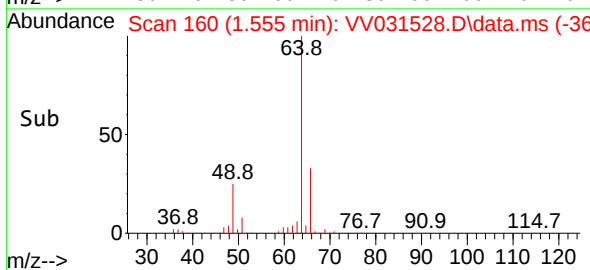
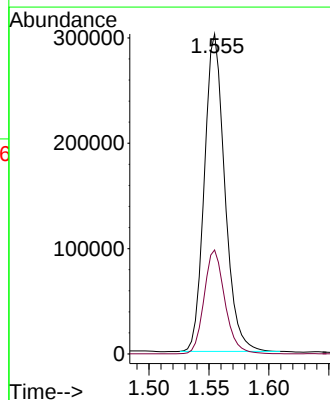
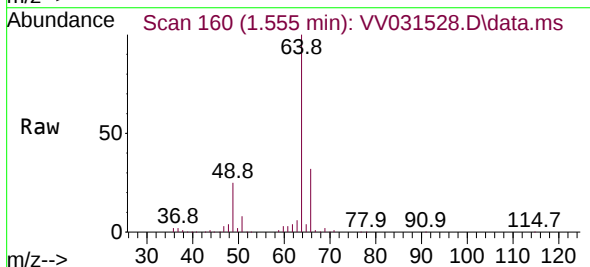
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS6

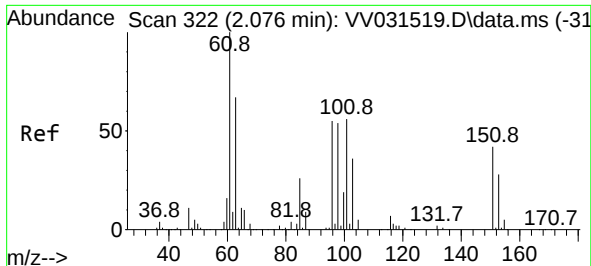
Tgt Ion: 62 Resp: 139352
 Ion Ratio Lower Upper
 62 100
 64 31.4 23.4 43.4



#8
 Chloroethane
 Concen: 326.160 ug/L
 RT: 1.555 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: VV031528.D
 Acq: 15 Jun 2023 14:04

Tgt Ion: 64 Resp: 357370
 Ion Ratio Lower Upper
 64 100
 66 32.5 21.0 39.0





#12

1,1-Dichloroethene

Concen: 5.484 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

EXYS6

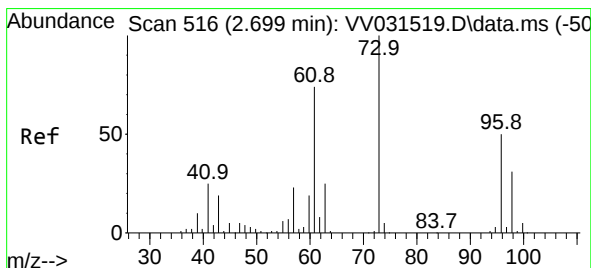
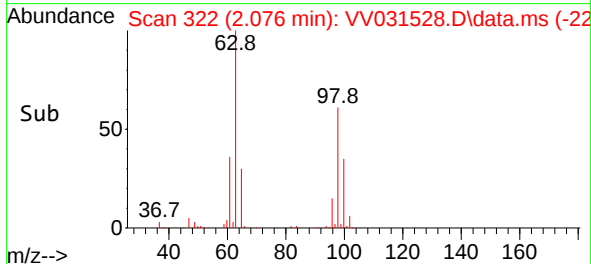
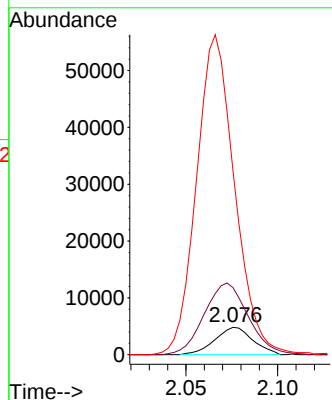
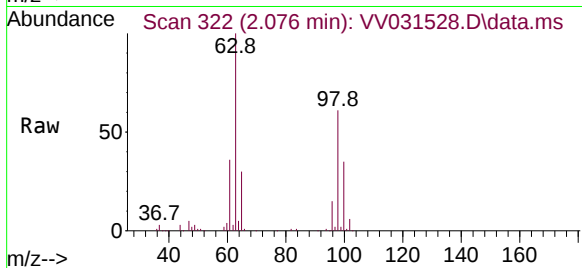
Tgt Ion: 96 Resp: 6938

Ion Ratio Lower Upper

96 100

61 244.5 128.9 239.5#

63 670.6 95.3 177.1#



#17

trans-1,2-Dichloroethene

Concen: 7.218 ug/L

RT: 2.706 min Scan# 518

Delta R.T. 0.006 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

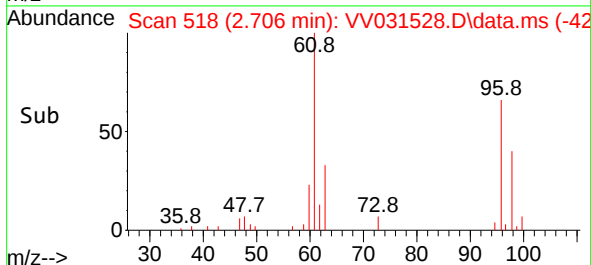
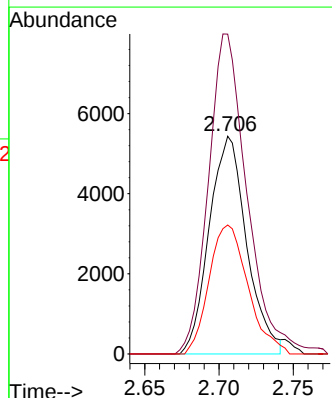
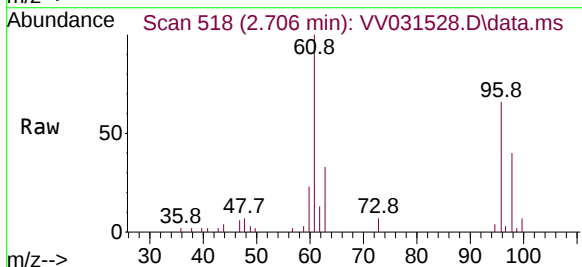
Tgt Ion: 96 Resp: 9532

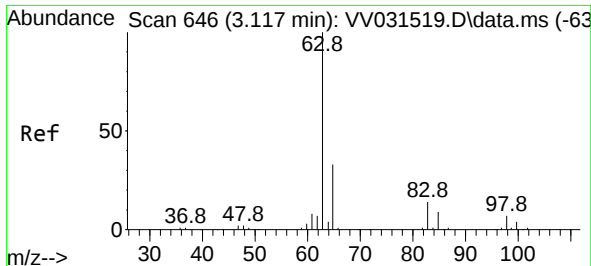
Ion Ratio Lower Upper

96 100

61 146.9 102.5 190.3

98 62.0 44.1 81.9





#19

1,1-Dichloroethane

Concen: 410.825 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

EXYS6

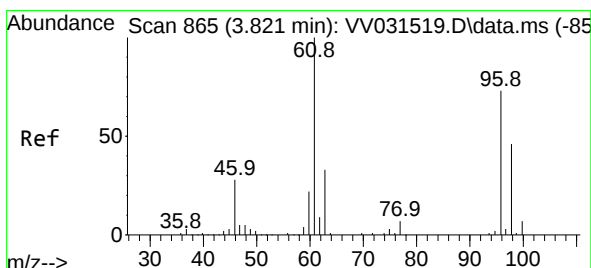
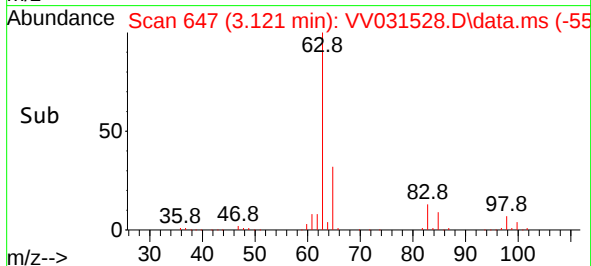
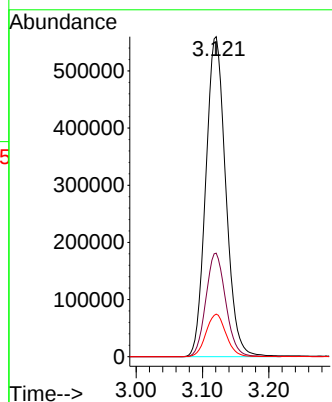
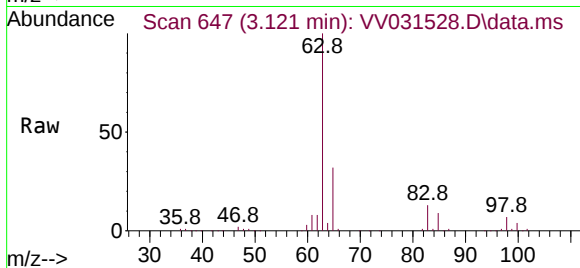
Tgt Ion: 63 Resp: 1170929

Ion Ratio Lower Upper

63 100

65 32.3 22.5 41.7

83 13.3 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 325.422 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.003 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

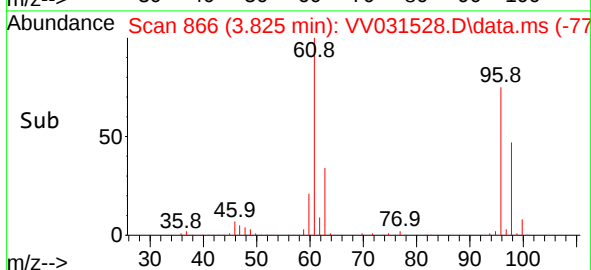
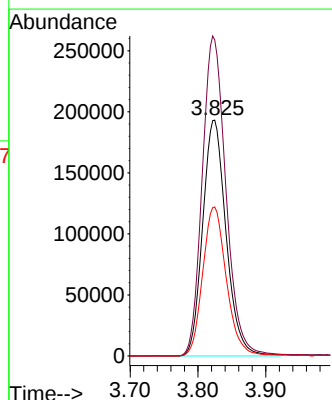
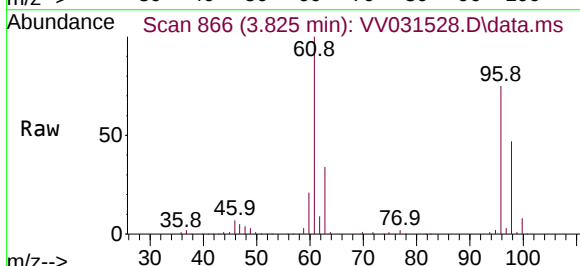
Tgt Ion: 96 Resp: 464424

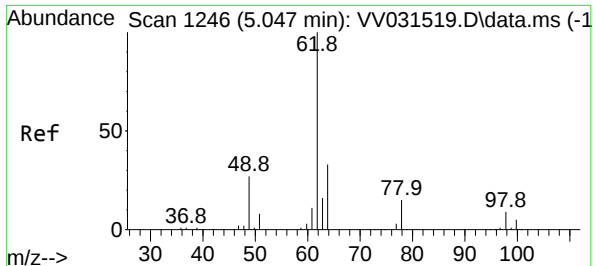
Ion Ratio Lower Upper

96 100

61 134.0 98.6 183.0

98 63.1 45.7 84.9





#27

1,2-Dichloroethane

Concen: 2.135 ug/L

RT: 5.063 min Scan# 1

Delta R.T. 0.016 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

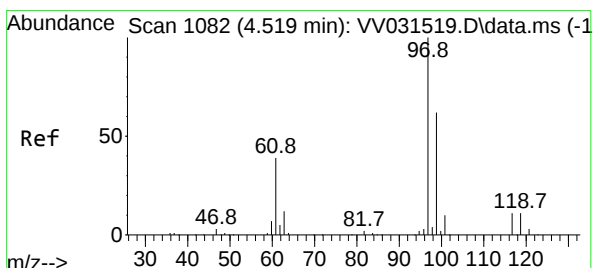
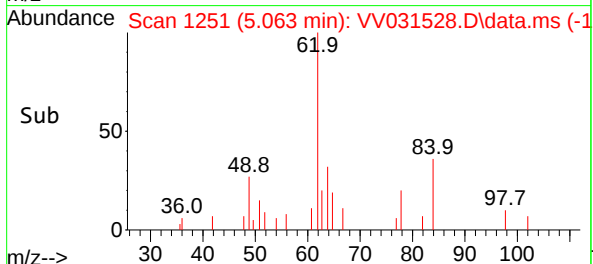
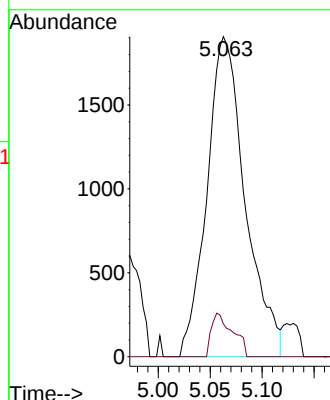
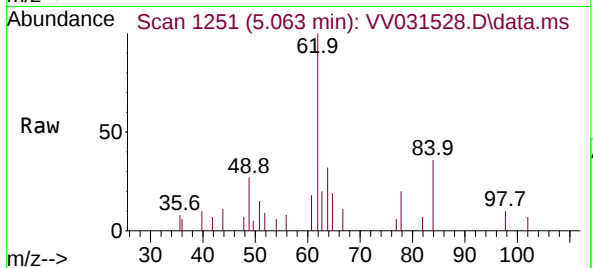
EXYS6

Tgt Ion: 62 Resp: 4882

Ion Ratio Lower Upper

62 100

98 8.5 6.6 9.8



#30

1,1,1-Trichloroethane

Concen: 146.231 ug/L

RT: 4.522 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

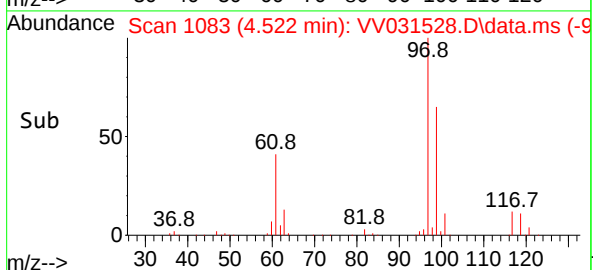
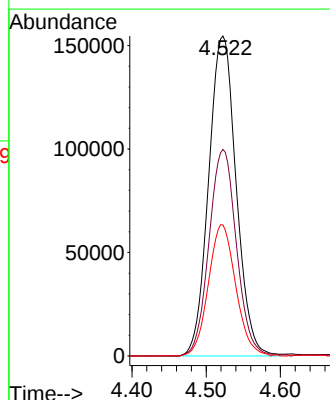
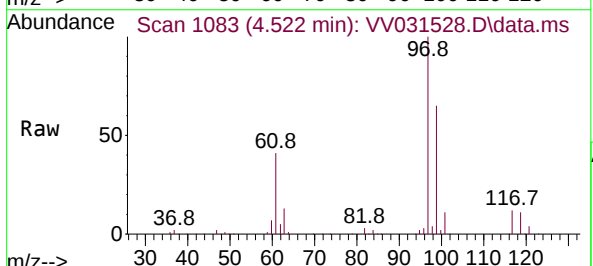
Tgt Ion: 97 Resp: 398679

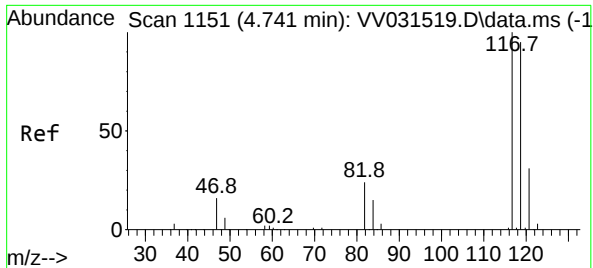
Ion Ratio Lower Upper

97 100

99 64.4 51.8 77.6

61 40.7 33.0 49.6

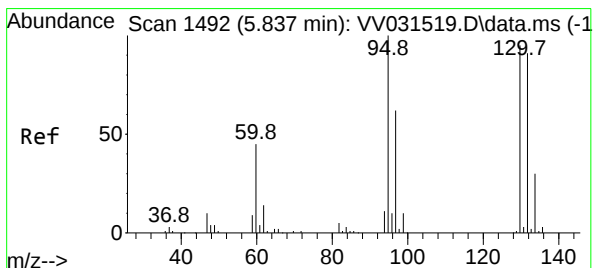
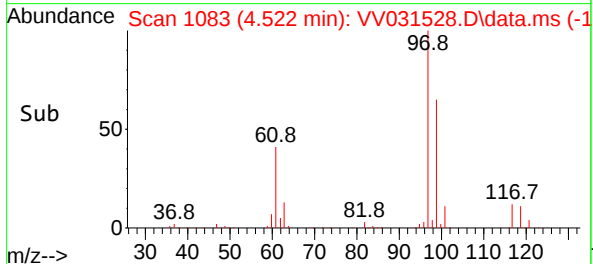
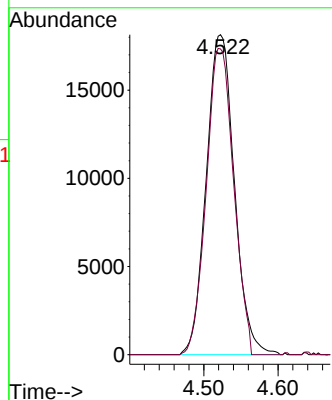
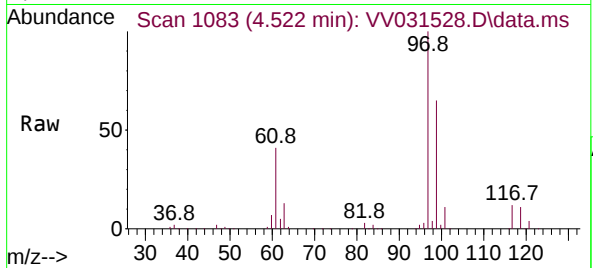




#31
Carbon tetrachloride
Concen: 19.787 ug/L
RT: 4.522 min Scan# 1083
Delta R.T. -0.219 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

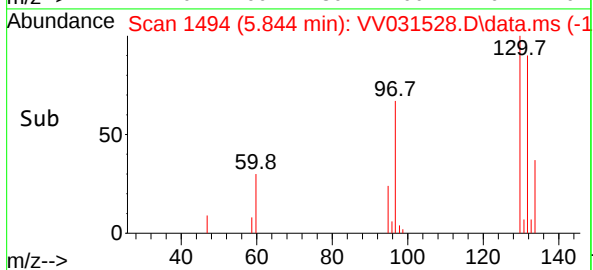
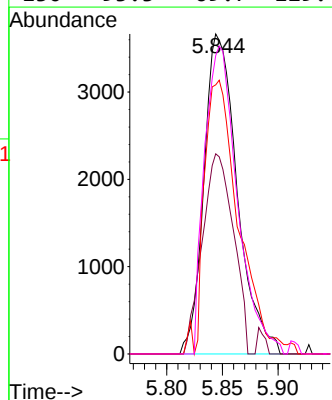
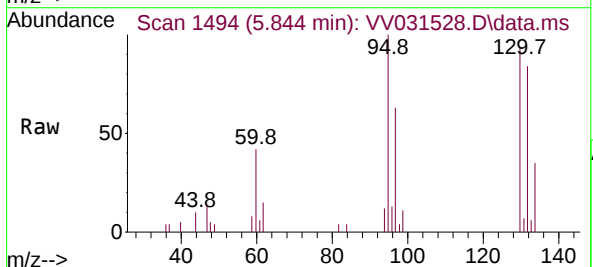
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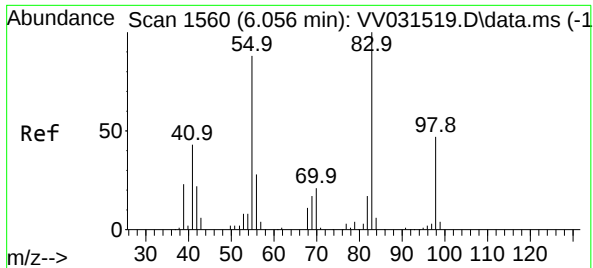
Tgt Ion:117 Resp: 47799
Ion Ratio Lower Upper
117 100
119 93.0 76.2 114.4



#34
Trichloroethene
Concen: 5.036 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

Tgt Ion: 95 Resp: 7618
Ion Ratio Lower Upper
95 100
97 62.6 46.8 86.8
132 90.2 66.4 123.2
130 93.3 69.7 129.4

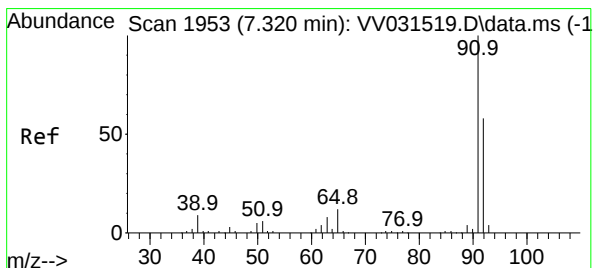
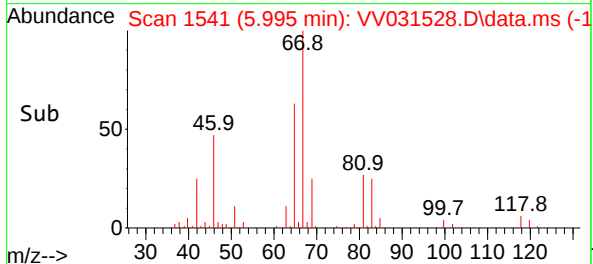
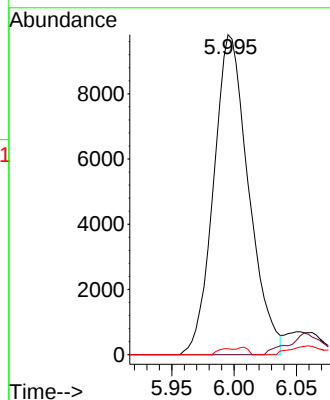
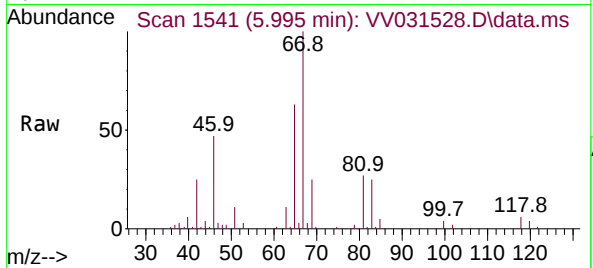




#35
Methylcyclohexane
Concen: 8.587 ug/L
RT: 5.995 min Scan# 11
Delta R.T. -0.061 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

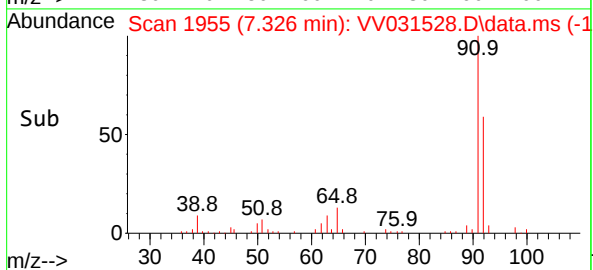
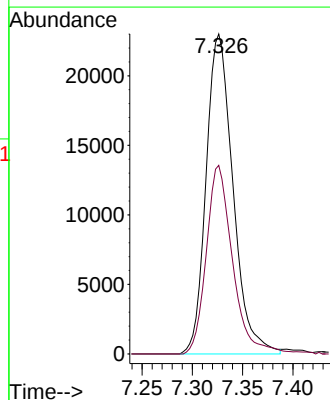
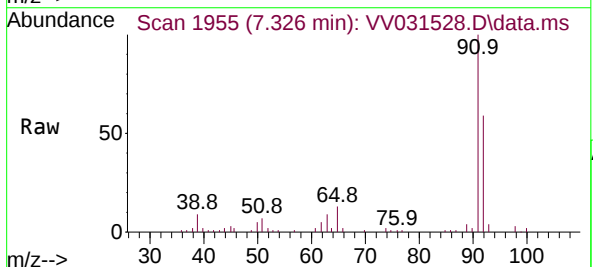
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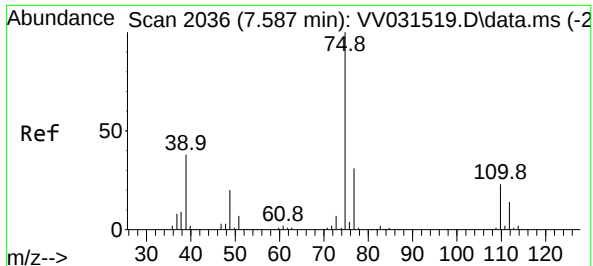
Tgt Ion: 83 Resp: 19142
Ion Ratio Lower Upper
83 100
55 0.0 68.7 103.1#
98 0.8 37.0 55.4#



#42
Toluene
Concen: 7.286 ug/L
RT: 7.326 min Scan# 1955
Delta R.T. 0.006 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

Tgt Ion: 91 Resp: 42771
Ion Ratio Lower Upper
91 100
92 58.9 39.6 73.6

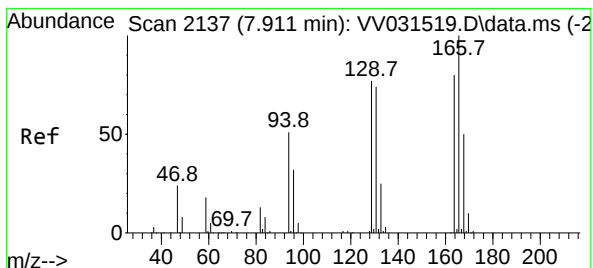
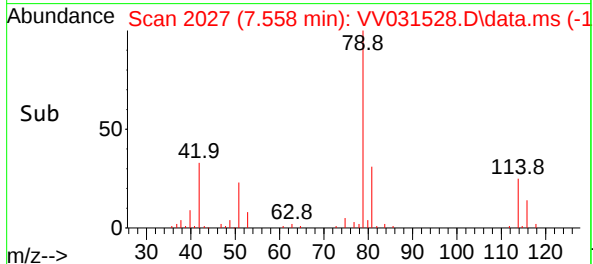
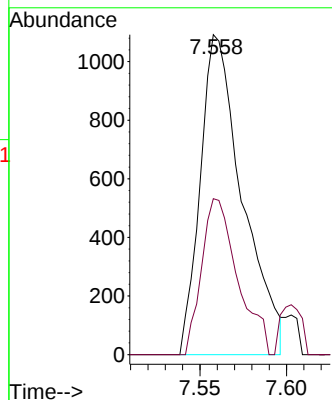
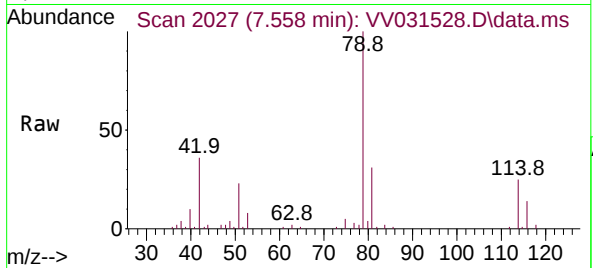




#44
trans-1,3-Dichloropropene
Concen: 0.768 ug/L
RT: 7.558 min Scan# 2036
Delta R.T. -0.029 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

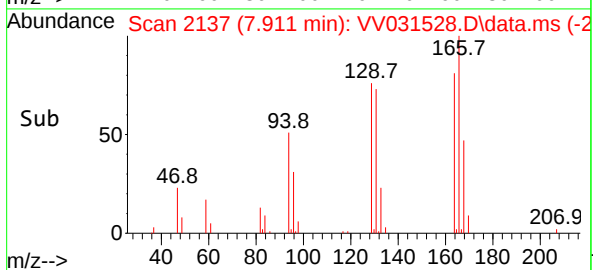
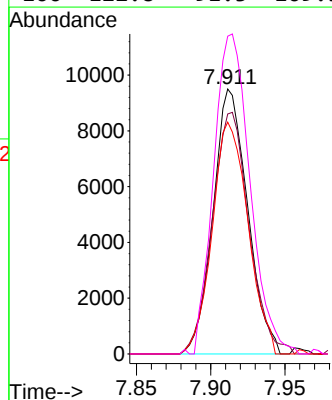
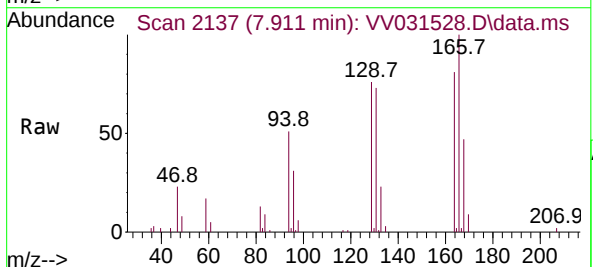
Instrument :
MSVOA_V
ClientSampleId :
EXYS6

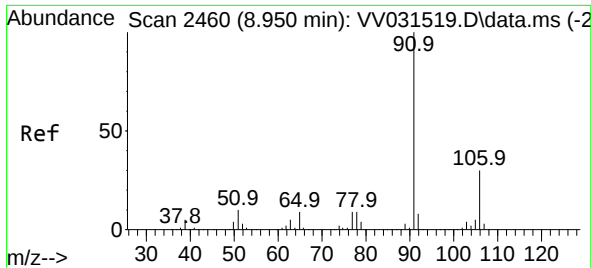
Tgt Ion: 75 Resp: 1845
Ion Ratio Lower Upper
75 100
77 48.7 22.1 41.1#



#46
Tetrachloroethene
Concen: 12.944 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

Tgt Ion:164 Resp: 15369
Ion Ratio Lower Upper
164 100
129 90.6 68.4 127.0
131 87.5 67.6 125.6
166 122.8 91.3 169.5

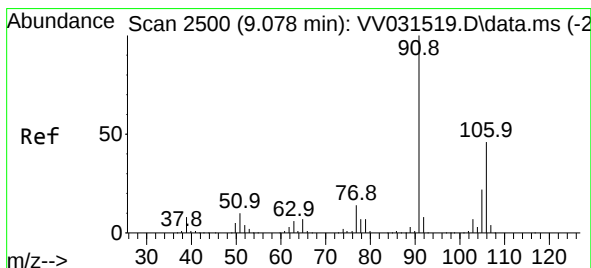
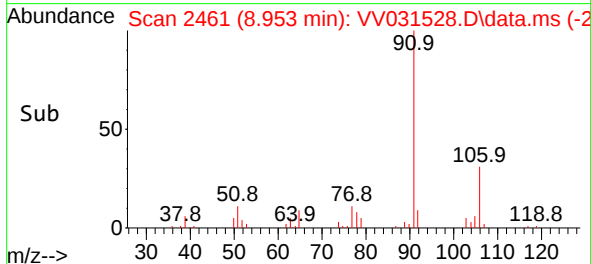
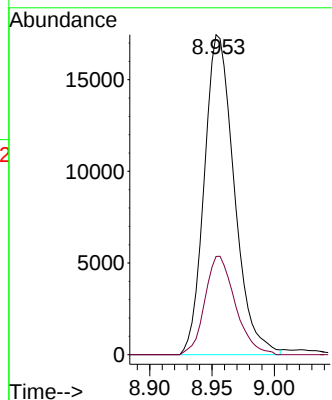
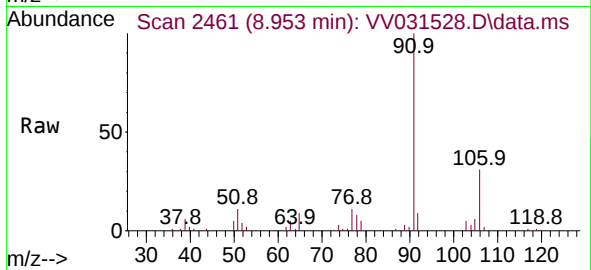




#52
Ethylbenzene
Concen: 4.462 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

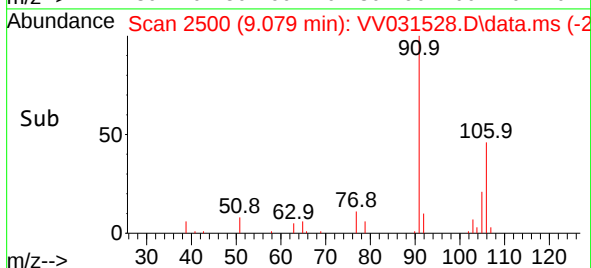
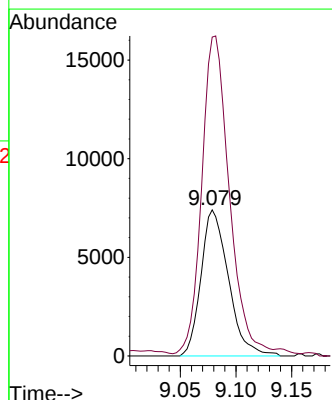
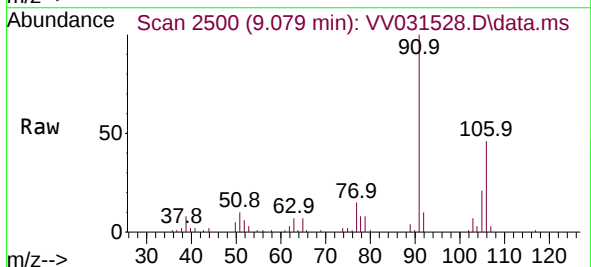
Instrument :
MSVOA_V
ClientSampleId :
EXYS6

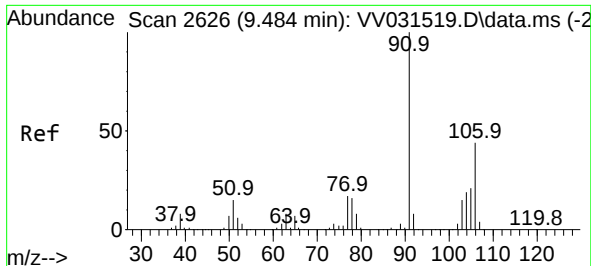
Tgt Ion: 91 Resp: 29227
Ion Ratio Lower Upper
91 100
106 30.7 20.8 38.6



#53
m,p-Xylene
Concen: 5.304 ug/L
RT: 9.079 min Scan# 2500
Delta R.T. 0.000 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

Tgt Ion: 106 Resp: 12722
Ion Ratio Lower Upper
106 100
91 218.4 149.0 276.6

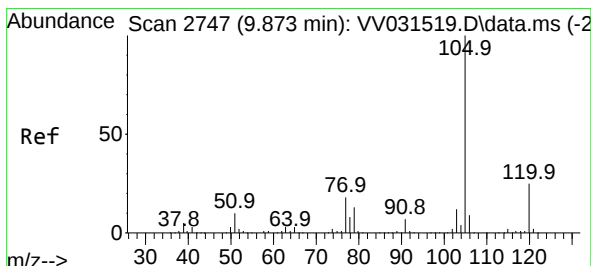
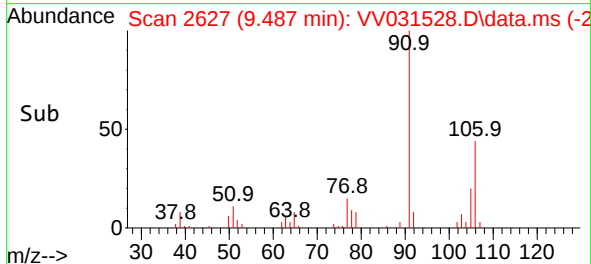
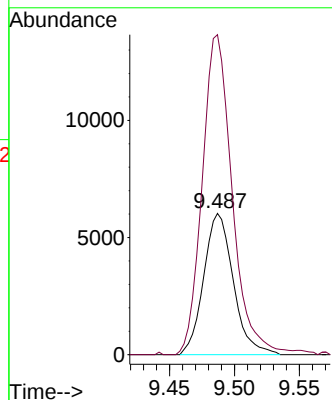
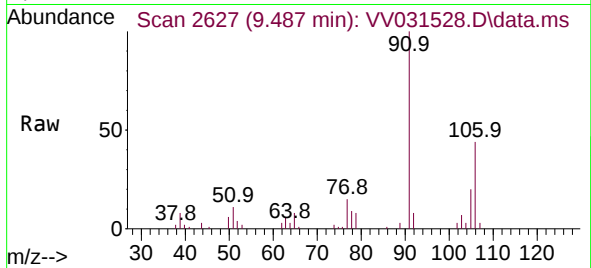




#54
o-Xylene
Concen: 4.201 ug/L
RT: 9.487 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

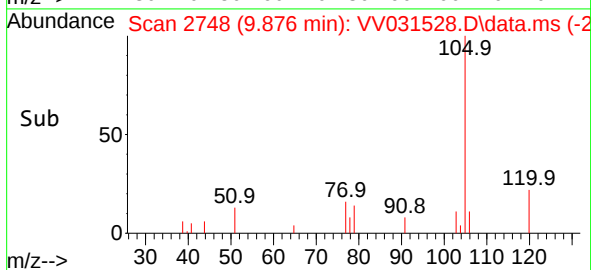
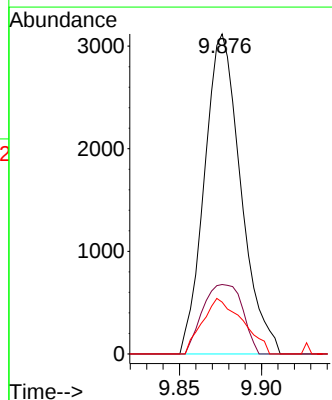
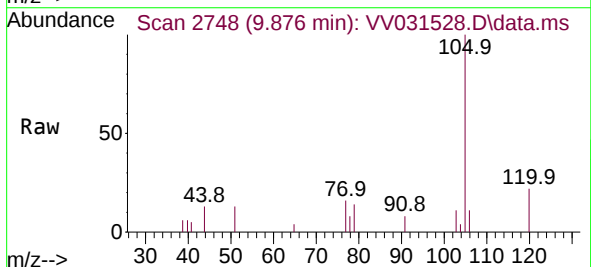
Instrument :
MSVOA_V
ClientSampleId :
EXYS6

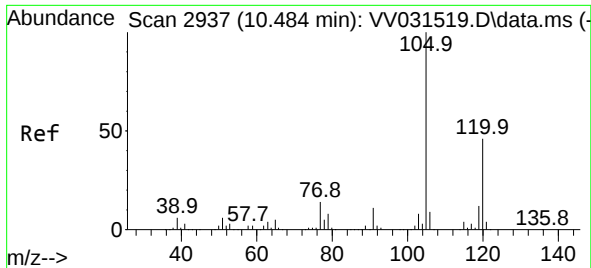
Tgt Ion:106 Resp: 9562
Ion Ratio Lower Upper
106 100
91 226.4 161.3 299.7



#60
Isopropylbenzene
Concen: 0.835 ug/L
RT: 9.876 min Scan# 2748
Delta R.T. 0.003 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

Tgt Ion:105 Resp: 4791
Ion Ratio Lower Upper
105 100
120 23.8 20.2 30.2
77 19.2 13.5 20.3

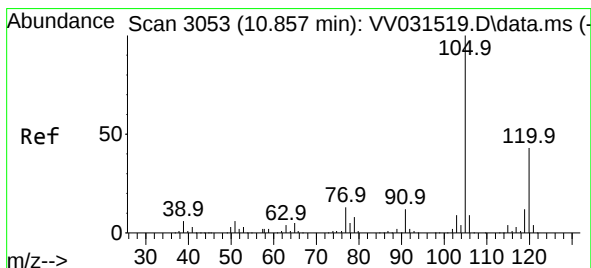
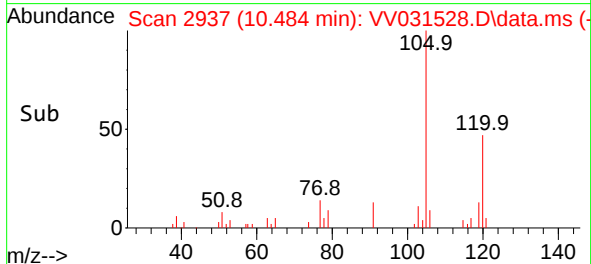
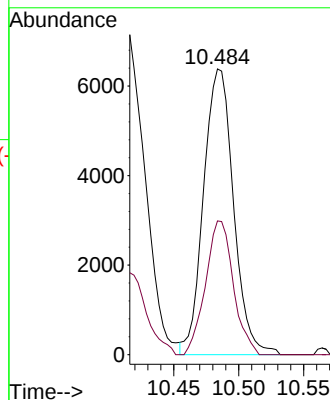
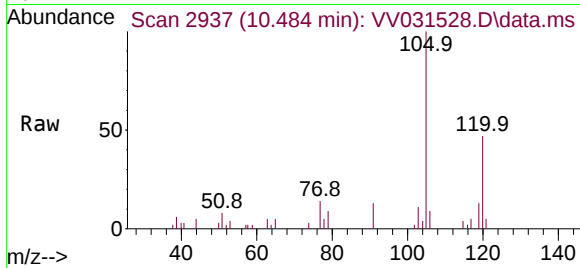




#62
1,3,5-Trimethylbenzene
Concen: 2.157 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

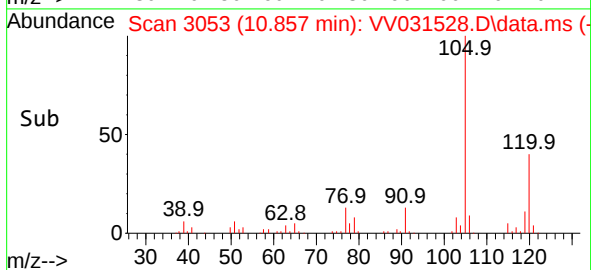
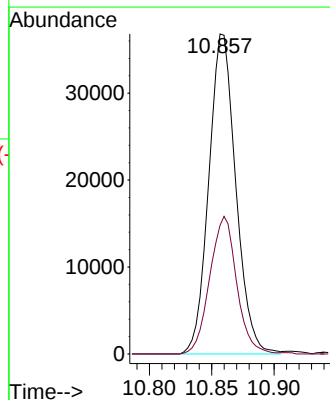
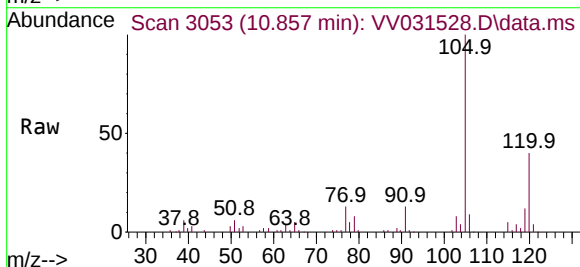
Instrument :
MSVOA_V
ClientSampleId :
EXYS6

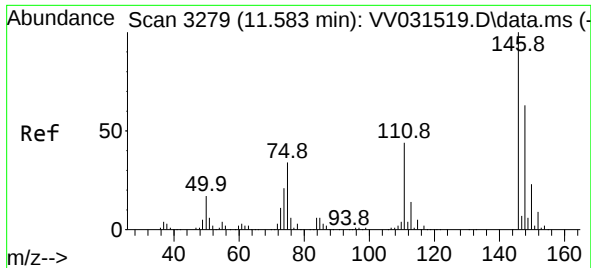
Tgt Ion:105 Resp: 10231
Ion Ratio Lower Upper
105 100
120 43.4 36.2 54.2



#63
1,2,4-Trimethylbenzene
Concen: 12.583 ug/L
RT: 10.857 min Scan# 3053
Delta R.T. 0.000 min
Lab File: VV031528.D
Acq: 15 Jun 2023 14:04

Tgt Ion:105 Resp: 55614
Ion Ratio Lower Upper
105 100
120 42.8 33.4 50.2





#67

1,2-Dichlorobenzene

Concen: 1.734 ug/L

RT: 11.590 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

Instrument :

MSVOA_V

ClientSampleId :

EXYS6

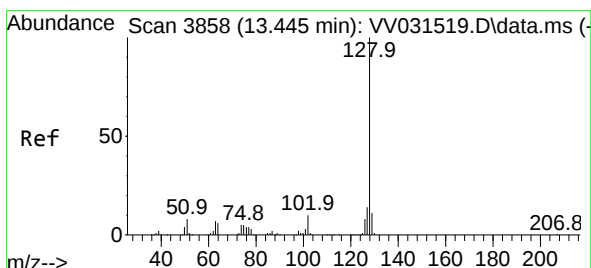
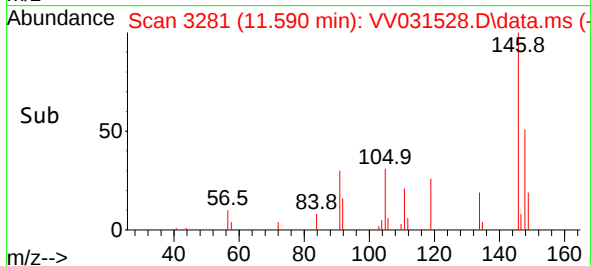
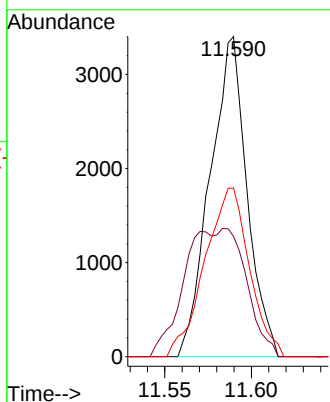
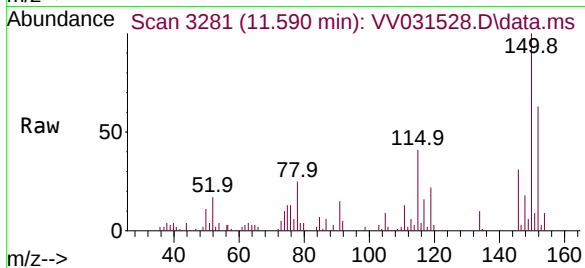
Tgt Ion:146 Resp: 5036

Ion Ratio Lower Upper

146 100

111 37.6 35.9 53.9

148 52.7 52.6 78.8



#71

Naphthalene

Concen: 5.643 ug/L

RT: 13.448 min Scan# 3859

Delta R.T. 0.003 min

Lab File: VV031528.D

Acq: 15 Jun 2023 14:04

Tgt Ion:128 Resp: 27471

Ion Ratio Lower Upper

128 100

127 13.9 10.6 16.0

129 11.2 8.6 13.0

