

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031539.D
 Acq On : 15 Jun 2023 18:19
 Operator : SY/MD
 Sample : 03249-17
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT7

Quant Time: Jun 16 02:51:05 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	237528	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	231541	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	125701	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.285	65	68510	43.338	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.680%
7) Chloroethane-d5	1.539	69	62648	45.419	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.840%
11) 1,1-Dichloroethene-d2	2.066	65	34552	42.409	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.820%
21) 2-Butanone-d5	3.799	46	128632	100.491	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.490%
24) Chloroform-d	4.455	84	145	0.037	ug/L	0.20
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.080%#
26) 1,2-Dichloroethane-d4	4.950	65	113536	45.835	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.680%
32) Benzene-d6	4.969	84	305773	46.917	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.840%
36) 1,2-Dichloropropane-d6	5.995	67	109004	47.189	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.380%
41) Toluene-d8	7.249	98	263899	44.125	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.260%
43) trans-1,3-Dichloroprop...	7.558	79	50489	44.836	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.680%
47) 2-Hexanone-d5	8.030	63	88615	97.160	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.160%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	156064	44.760	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.520%
66) 1,2-Dichlorobenzene-d4	11.567	152	122358	51.066	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.140%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.288	62	198226	84.111	ug/L	99
8) Chloroethane	1.555	64	512257	336.536	ug/L	95
12) 1,1-Dichloroethene	2.076	96	9554	5.436	ug/L #	1
17) trans-1,2-Dichloroethene	2.706	96	13081	7.130	ug/L	99
19) 1,1-Dichloroethane	3.121	63	1649528	416.598	ug/L	99
20) cis-1,2-Dichloroethene	3.822	96	653536	329.634	ug/L	99
27) 1,2-Dichloroethane	5.063	62	5752	1.811	ug/L #	77
30) 1,1,1-Trichloroethane	4.523	97	581937	156.760	ug/L	99
31) Carbon tetrachloride	4.523	117	68984	20.973	ug/L	97
33) Benzene	5.024	78	6193	0.803	ug/L	100
34) Trichloroethene	5.850	95	10878	5.281	ug/L	92
42) Toluene	7.326	91	67508	8.446	ug/L	98
46) Tetrachloroethene	7.911	164	22690	14.034	ug/L	97
52) Ethylbenzene	8.953	91	39402	4.418	ug/L	97
53) m,p-Xylene	9.079	106	15656	4.793	ug/L	96
54) o-Xylene	9.487	106	12244	3.950	ug/L	99
60) Isopropylbenzene	9.876	105	7290	0.910	ug/L	97
62) 1,3,5-Trimethylbenzene	10.484	105	13001	1.963	ug/L	98
63) 1,2,4-Trimethylbenzene	10.860	105	56483	9.153	ug/L	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV061523\
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Quant Title : VOC Analysis
QLast Update : Fri Jun 16 02:44:48 2023
Response via : Initial Calibration

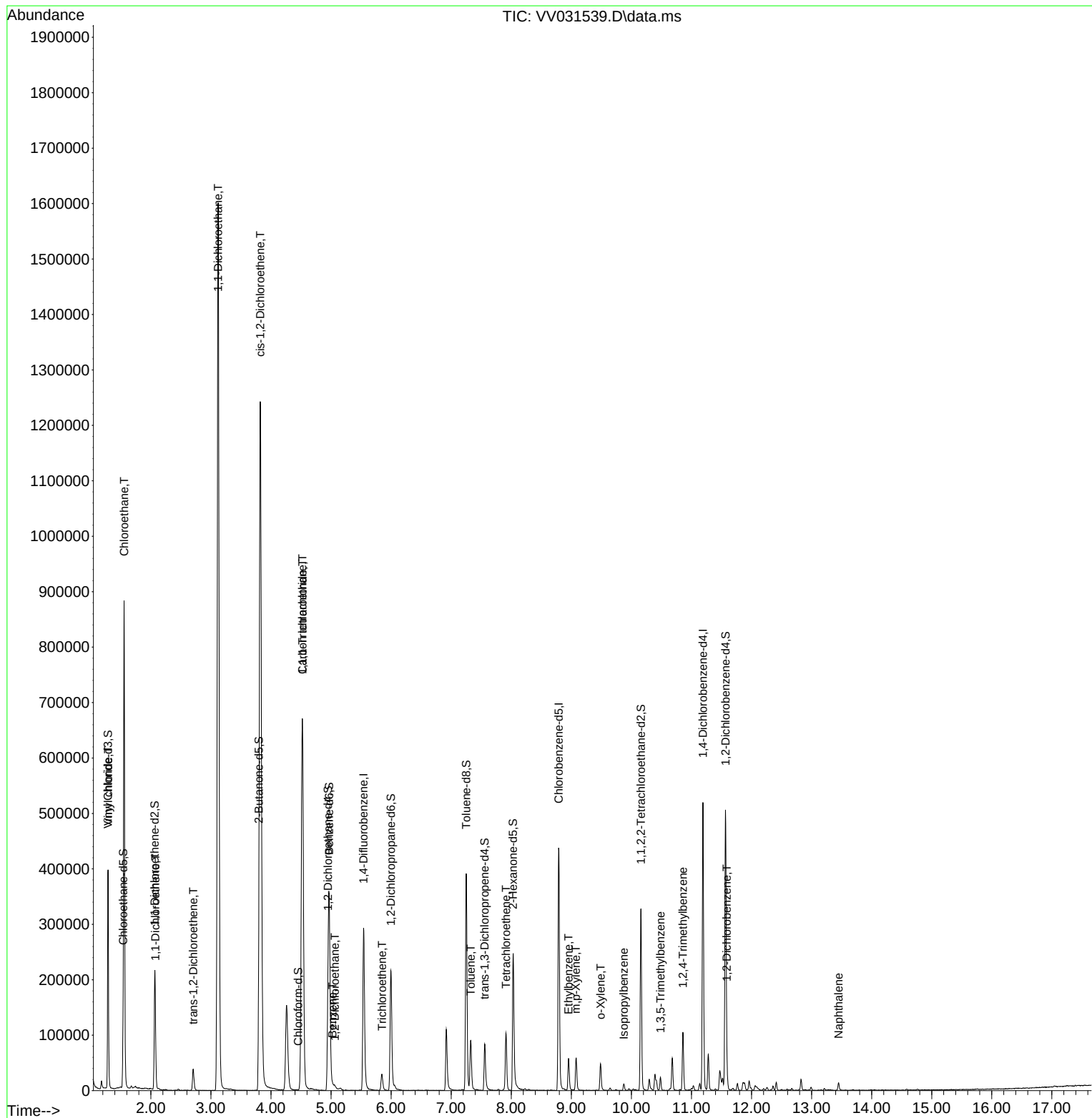
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	11.587	146	6164	1.520	ug/L	# 80
71) Naphthalene	13.451	128	10874	1.600	ug/L	98

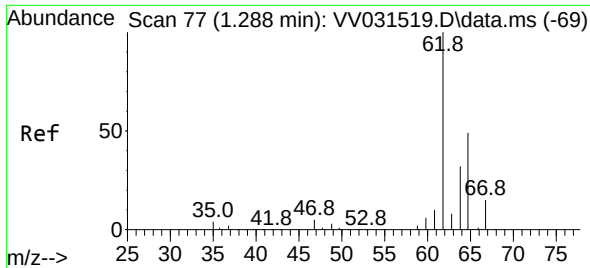
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
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QLast Update : Fri Jun 16 02:44:48 2023
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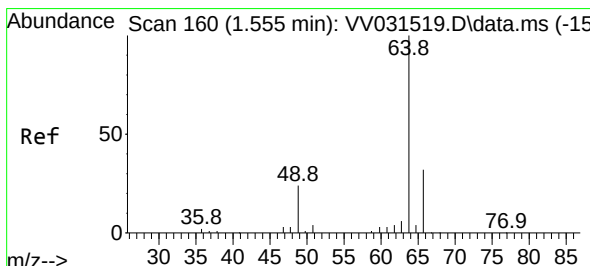
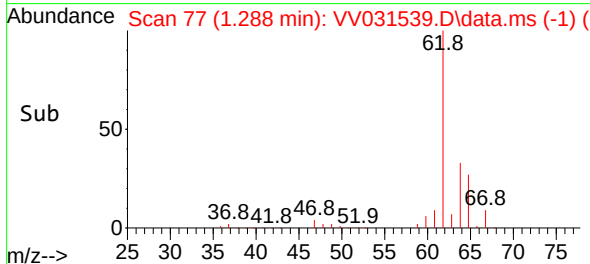
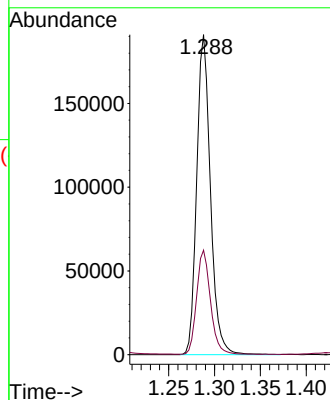
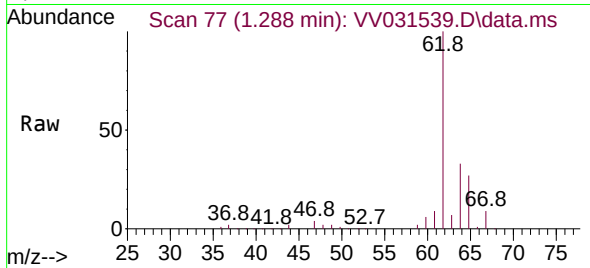




#5
 Vinyl chloride
 Concen: 84.111 ug/L
 RT: 1.288 min Scan# 77
 Delta R.T. 0.000 min
 Lab File: VV031539.D
 Acq: 15 Jun 2023 18:19

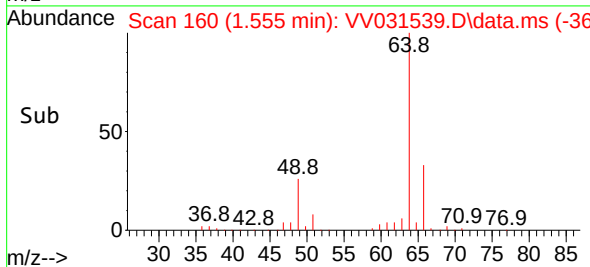
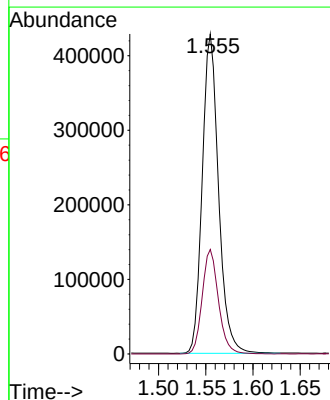
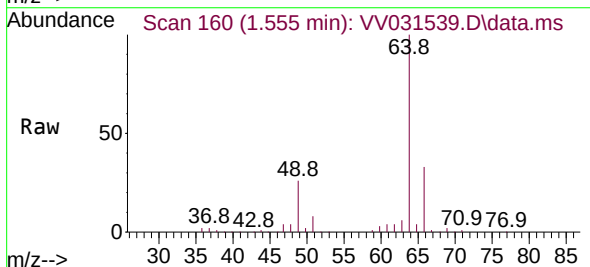
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT7

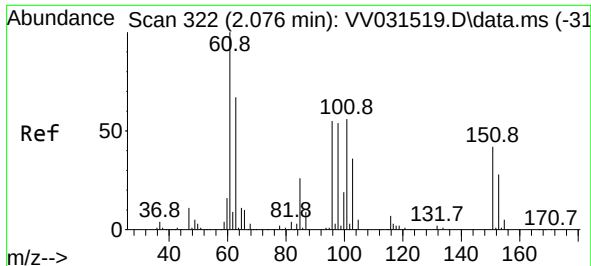
Tgt Ion: 62 Resp: 198226
 Ion Ratio Lower Upper
 62 100
 64 32.7 23.4 43.4



#8
 Chloroethane
 Concen: 336.536 ug/L
 RT: 1.555 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: VV031539.D
 Acq: 15 Jun 2023 18:19

Tgt Ion: 64 Resp: 512257
 Ion Ratio Lower Upper
 64 100
 66 32.6 21.0 39.0





#12

1,1-Dichloroethene

Concen: 5.436 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031539.D

Acq: 15 Jun 2023 18:19

Instrument :

MSVOA_V

ClientSampleId :

EXYT7

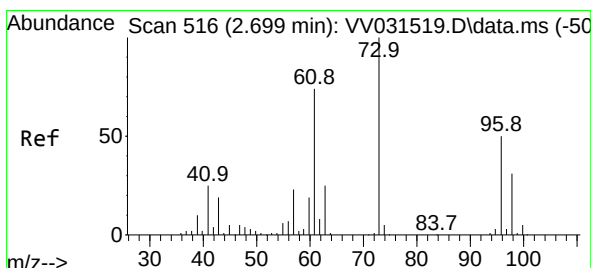
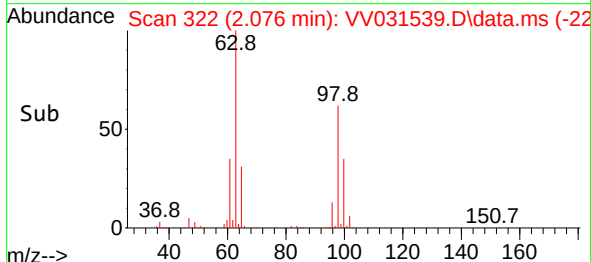
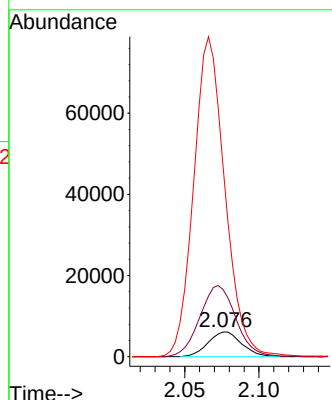
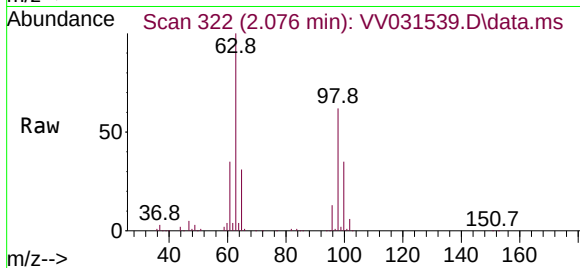
Tgt Ion: 96 Resp: 9554

Ion Ratio Lower Upper

96 100

61 273.7 128.9 239.5#

63 780.0 95.3 177.1#



#17

trans-1,2-Dichloroethene

Concen: 7.130 ug/L

RT: 2.706 min Scan# 518

Delta R.T. 0.007 min

Lab File: VV031539.D

Acq: 15 Jun 2023 18:19

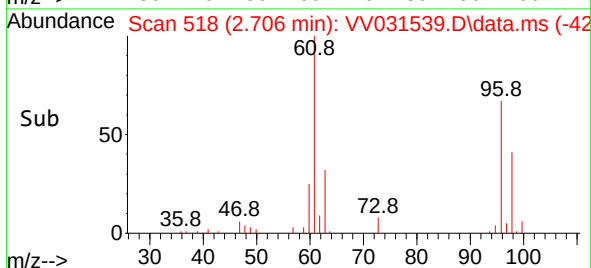
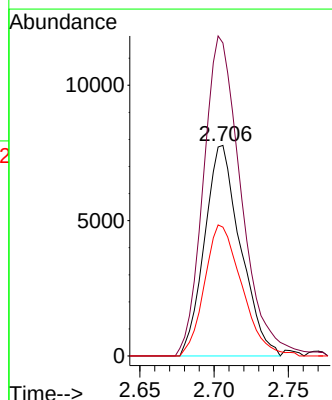
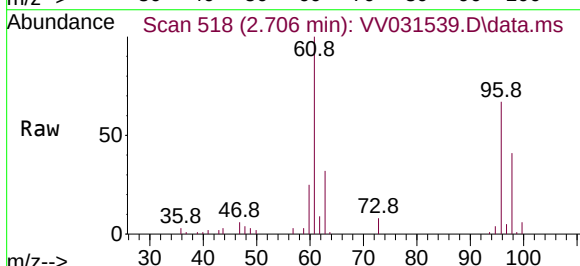
Tgt Ion: 96 Resp: 13081

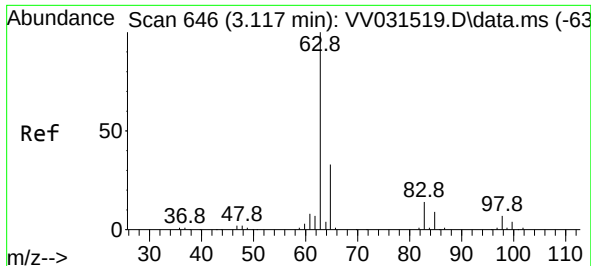
Ion Ratio Lower Upper

96 100

61 148.7 102.5 190.3

98 63.3 44.1 81.9





#19

1,1-Dichloroethane

Concen: 416.598 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV031539.D

Acq: 15 Jun 2023 18:19

Instrument :

MSVOA_V

ClientSampleId :

EXYT7

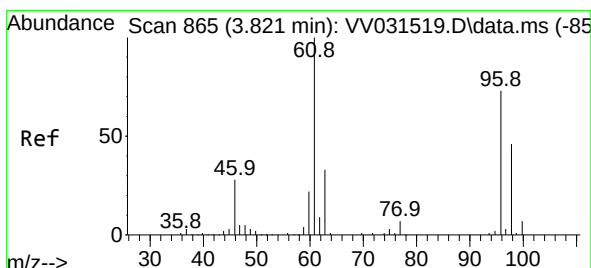
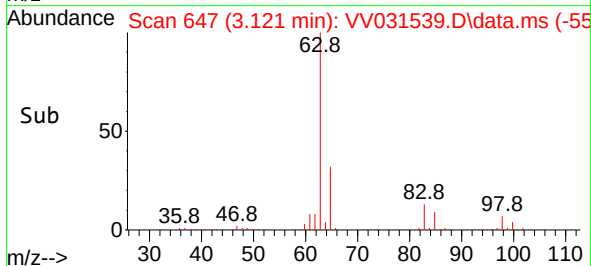
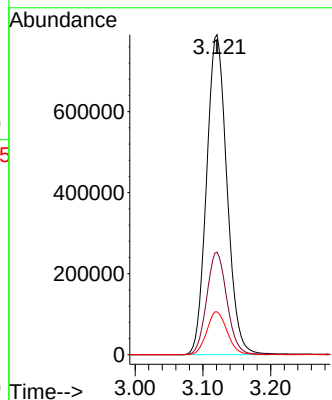
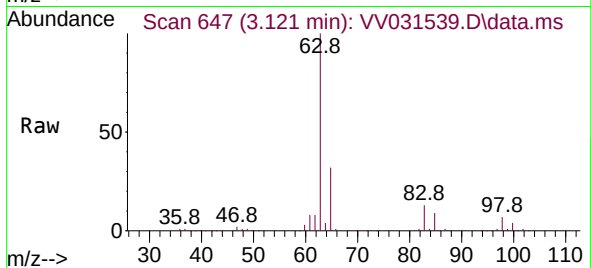
Tgt Ion: 63 Resp: 1649528

Ion Ratio Lower Upper

63 100

65 32.1 22.5 41.7

83 13.4 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 329.634 ug/L

RT: 3.822 min Scan# 865

Delta R.T. 0.000 min

Lab File: VV031539.D

Acq: 15 Jun 2023 18:19

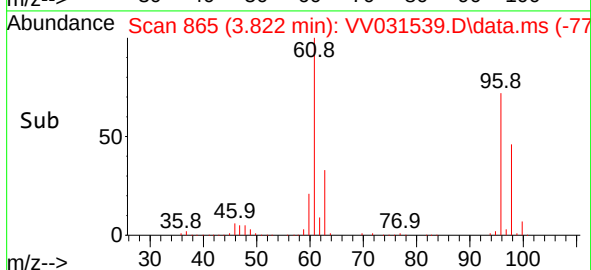
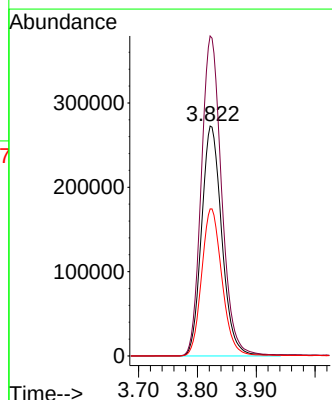
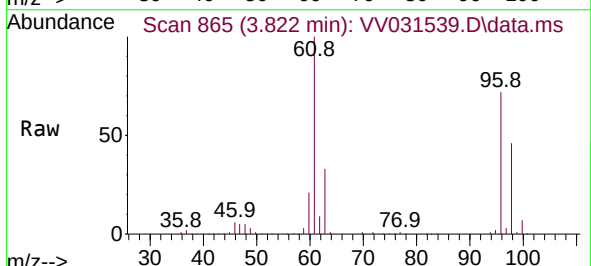
Tgt Ion: 96 Resp: 653536

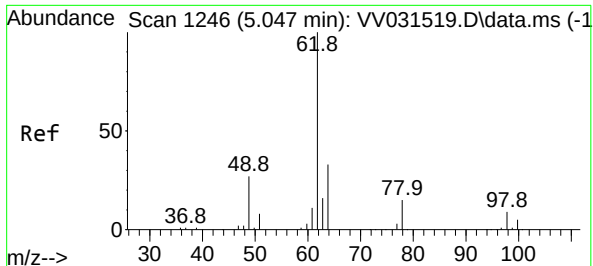
Ion Ratio Lower Upper

96 100

61 139.2 98.6 183.0

98 63.9 45.7 84.9





#27

1,2-Dichloroethane

Concen: 1.811 ug/L

RT: 5.063 min Scan# 11

Delta R.T. 0.016 min

Lab File: VV031539.D

Acq: 15 Jun 2023 18:19

Instrument :

MSVOA_V

ClientSampleId :

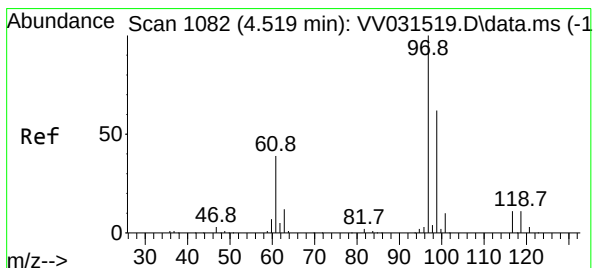
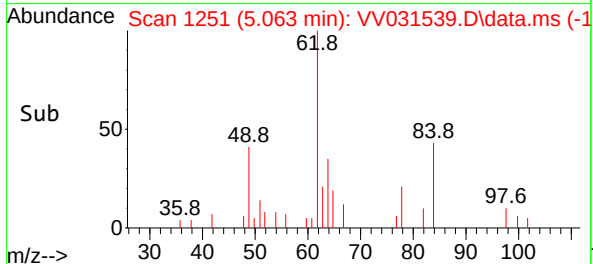
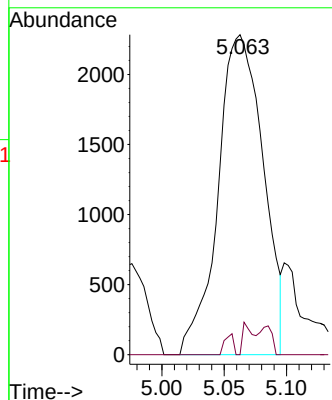
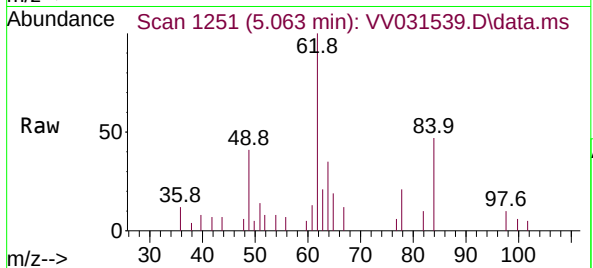
EXYT7

Tgt Ion: 62 Resp: 5752

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#30

1,1,1-Trichloroethane

Concen: 156.760 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV031539.D

Acq: 15 Jun 2023 18:19

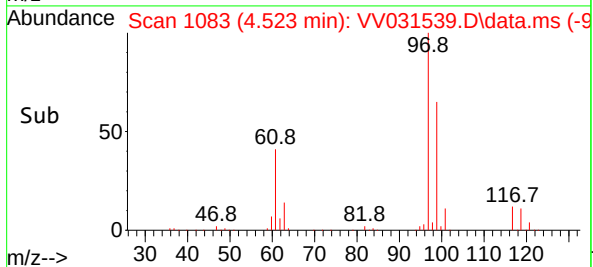
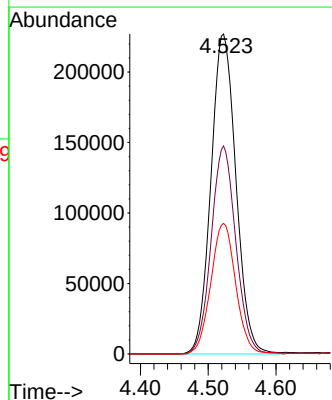
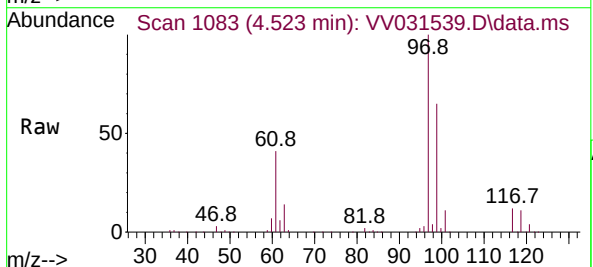
Tgt Ion: 97 Resp: 581937

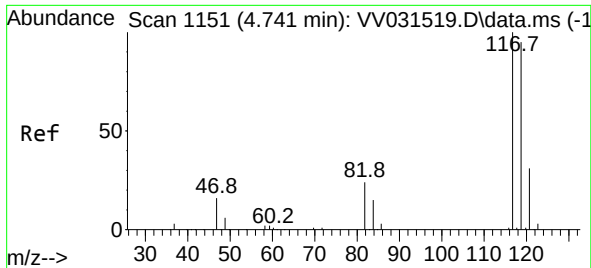
Ion Ratio Lower Upper

97 100

99 64.3 51.8 77.6

61 40.7 33.0 49.6

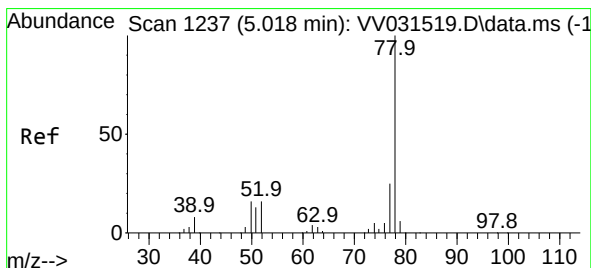
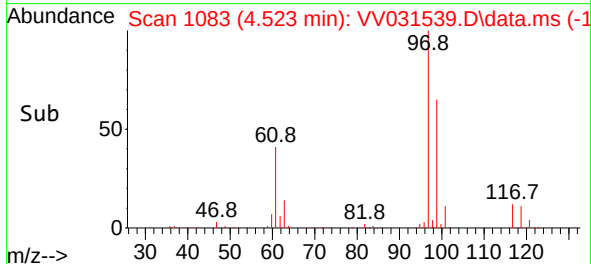
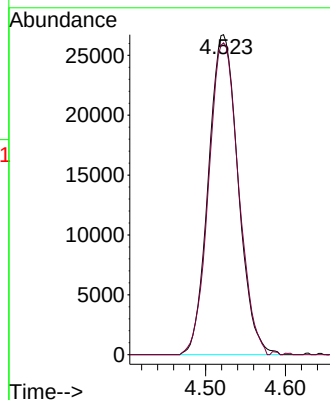
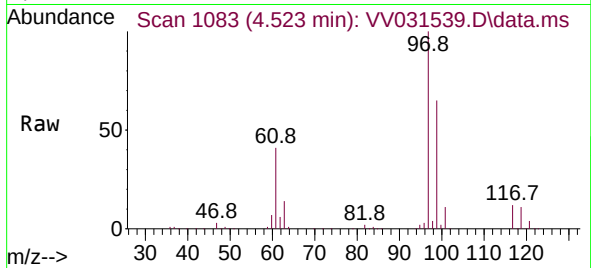




#31
Carbon tetrachloride
Concen: 20.973 ug/L
RT: 4.523 min Scan# 1083
Delta R.T. -0.219 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

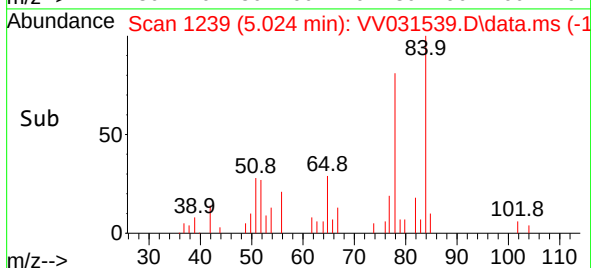
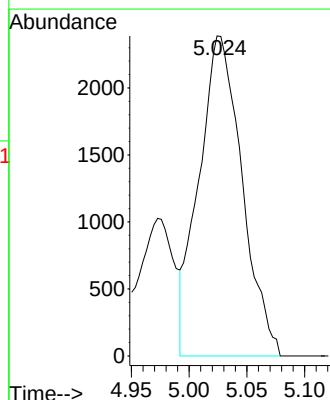
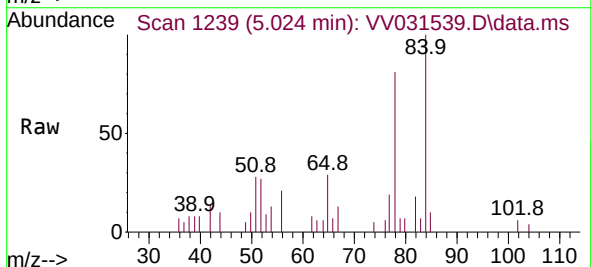
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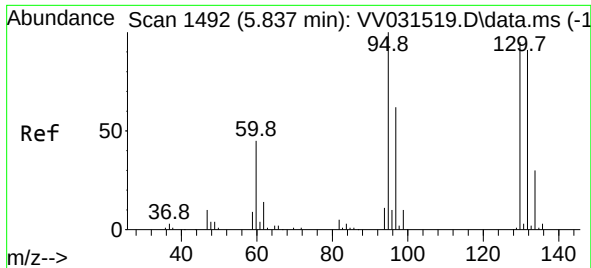
Tgt Ion:117 Resp: 68984
Ion Ratio Lower Upper
117 100
119 97.9 76.2 114.4



#33
Benzene
Concen: 0.803 ug/L
RT: 5.024 min Scan# 1239
Delta R.T. 0.007 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

Tgt Ion: 78 Resp: 6193

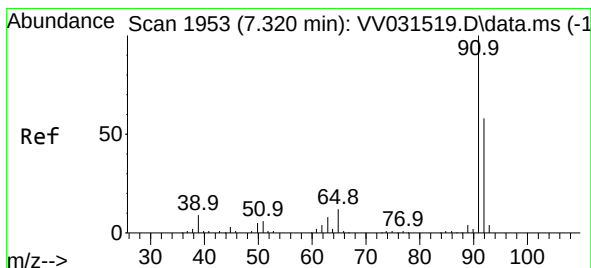
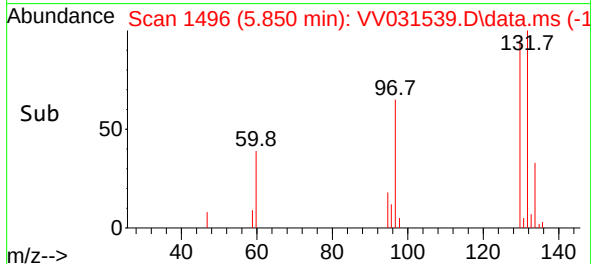
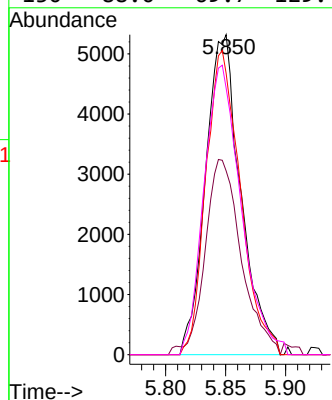
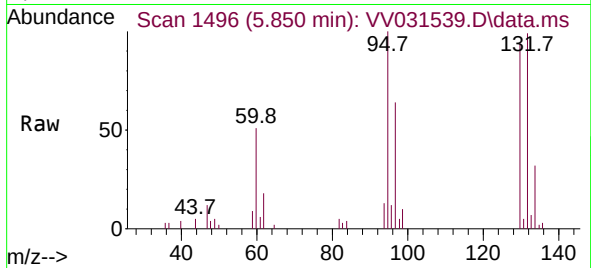




#34
Trichloroethene
Concen: 5.281 ug/L
RT: 5.850 min Scan# 1496
Delta R.T. 0.013 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

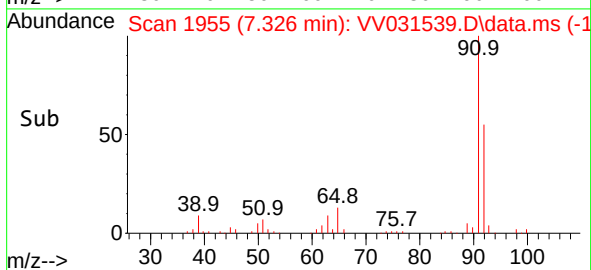
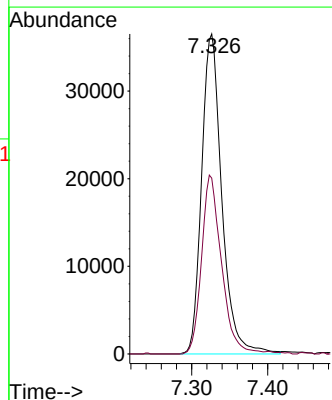
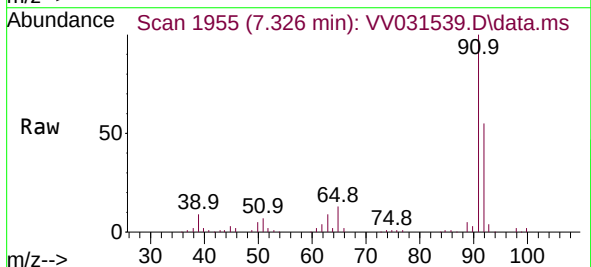
Instrument :
MSVOA_V
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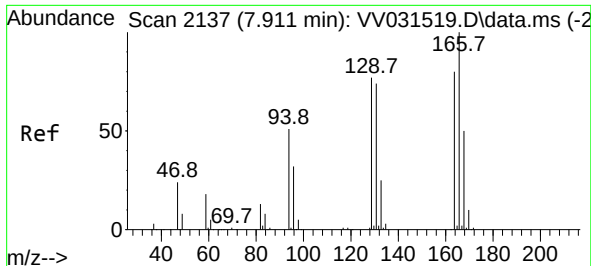
Tgt Ion: 95 Resp: 10878
Ion Ratio Lower Upper
95 100
97 57.4 46.8 86.8
132 93.7 66.4 123.2
130 88.0 69.7 129.4



#42
Toluene
Concen: 8.446 ug/L
RT: 7.326 min Scan# 1955
Delta R.T. 0.007 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

Tgt Ion: 91 Resp: 67508
Ion Ratio Lower Upper
91 100
92 55.0 39.6 73.6

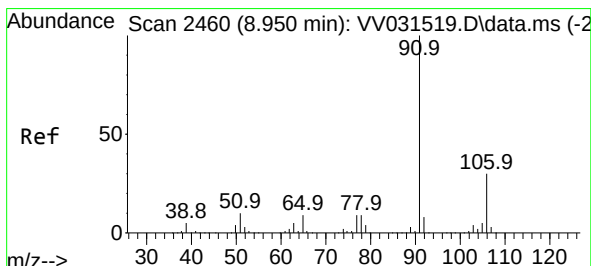
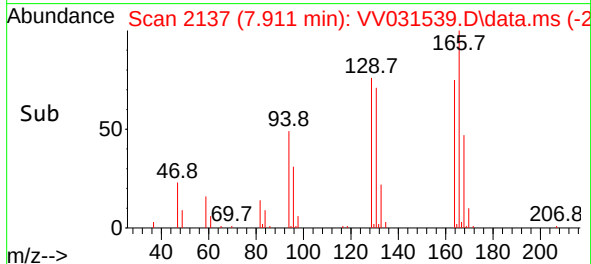
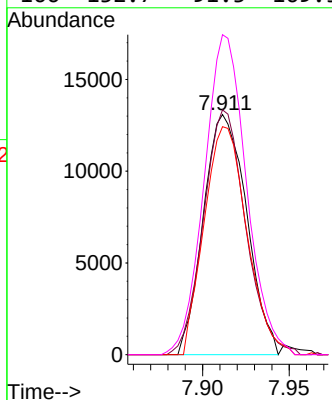
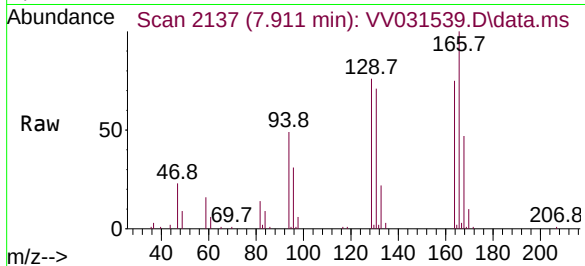




#46
Tetrachloroethene
Concen: 14.034 ug/L
RT: 7.911 min Scan# 2137
Delta R.T. 0.000 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

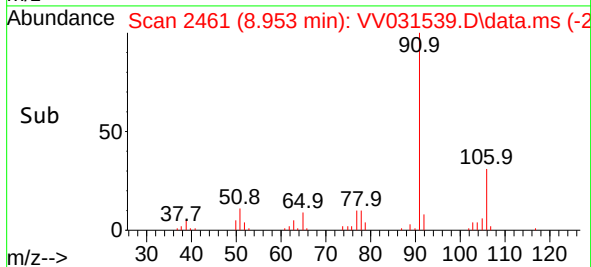
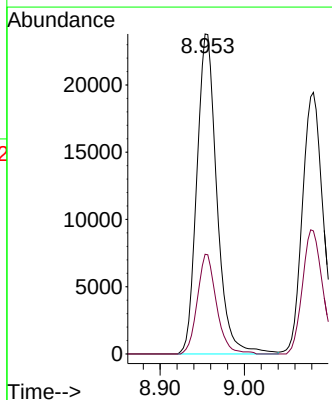
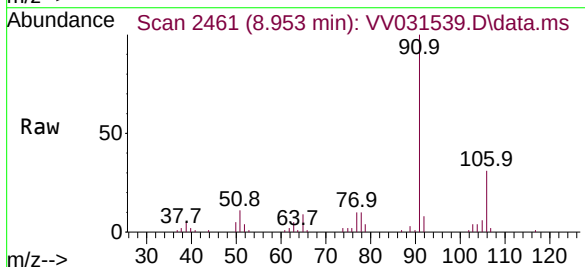
Instrument :
MSVOA_V
ClientSampleId :
EXYT7

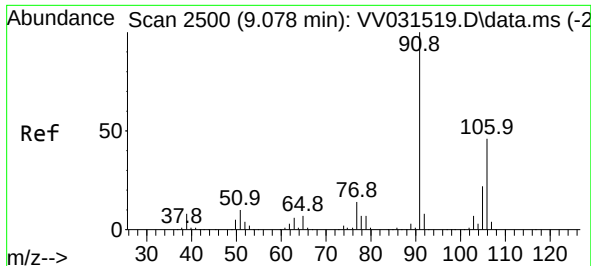
Tgt Ion:	164	Resp:	22690
Ion	Ratio	Lower	Upper
164	100		
129	101.3	68.4	127.0
131	94.6	67.6	125.6
166	132.7	91.3	169.5



#52
Ethylbenzene
Concen: 4.418 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.003 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

Tgt Ion:	91	Resp:	39402
Ion	Ratio	Lower	Upper
91	100		
106	31.2	20.8	38.6

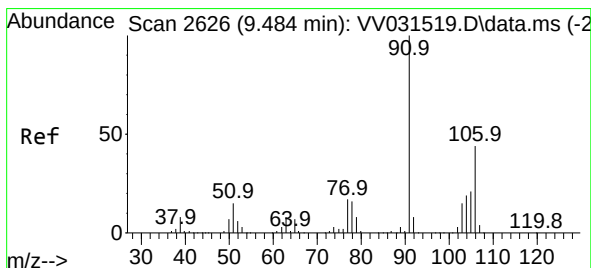
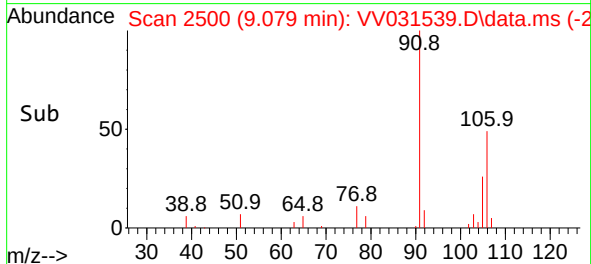
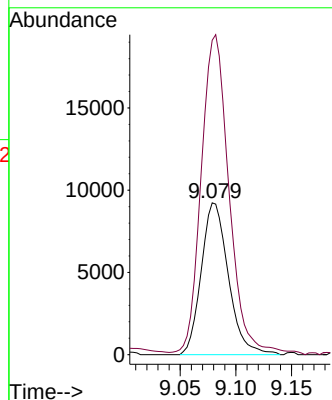
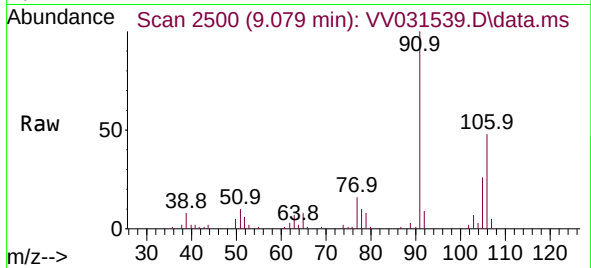




#53
m,p-Xylene
Concen: 4.793 ug/L
RT: 9.079 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

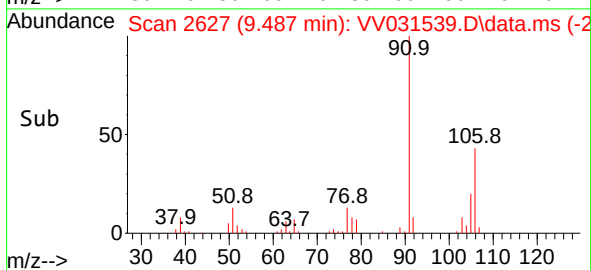
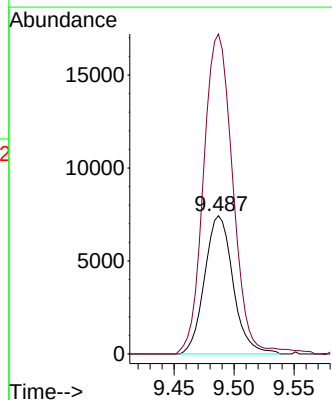
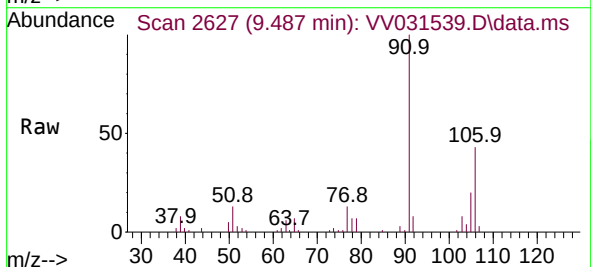
Instrument :
MSVOA_V
ClientSampleId :
EXYT7

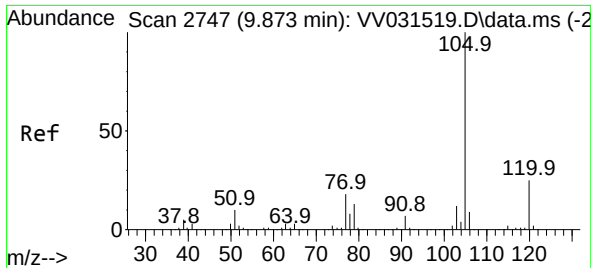
Tgt Ion:106 Resp: 15656
Ion Ratio Lower Upper
106 100
91 207.0 149.0 276.6



#54
o-Xylene
Concen: 3.950 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

Tgt Ion:106 Resp: 12244
Ion Ratio Lower Upper
106 100
91 231.4 161.3 299.7

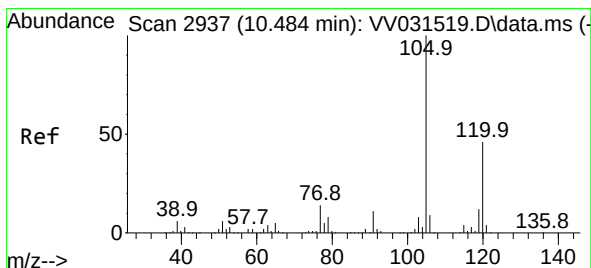
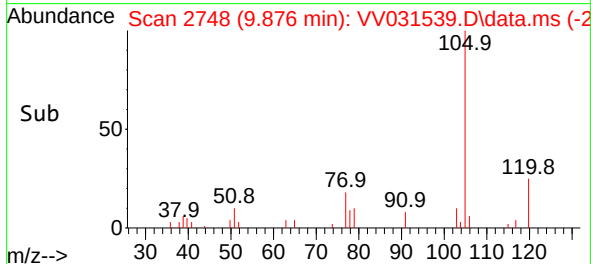
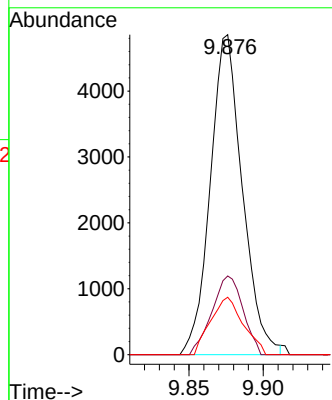
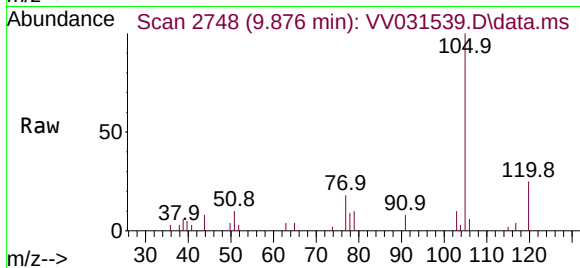




#60
Isopropylbenzene
Concen: 0.910 ug/L
RT: 9.876 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

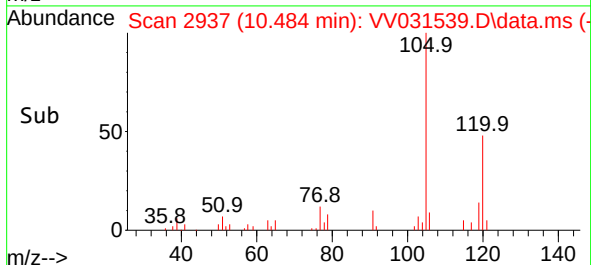
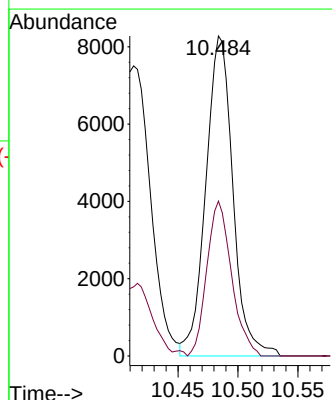
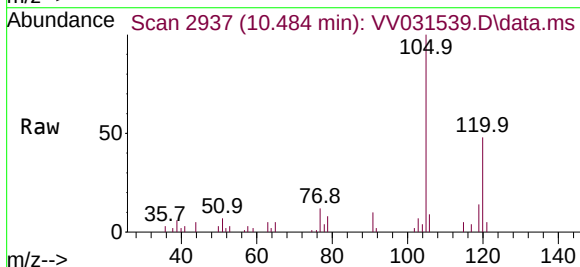
Instrument :
MSVOA_V
ClientSampleId :
EXYT7

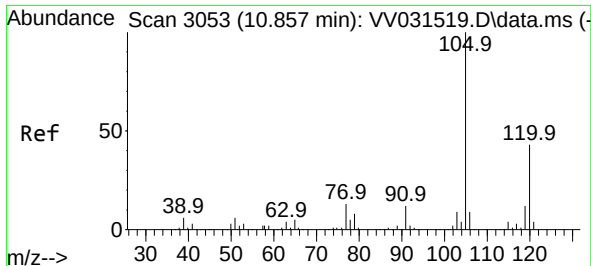
Tgt Ion:105 Resp: 7290
Ion Ratio Lower Upper
105 100
120 23.8 20.2 30.2
77 18.3 13.5 20.3



#62
1,3,5-Trimethylbenzene
Concen: 1.963 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

Tgt Ion:105 Resp: 13001
Ion Ratio Lower Upper
105 100
120 44.2 36.2 54.2

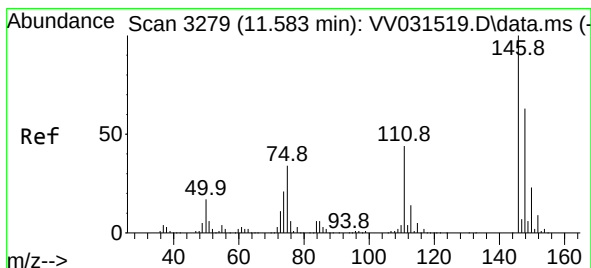
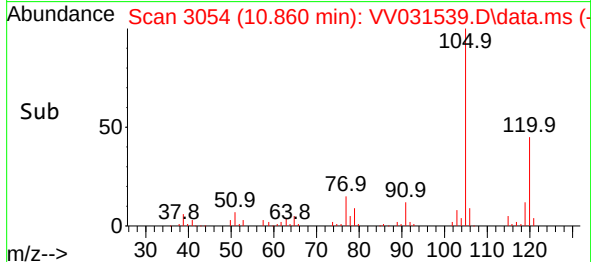
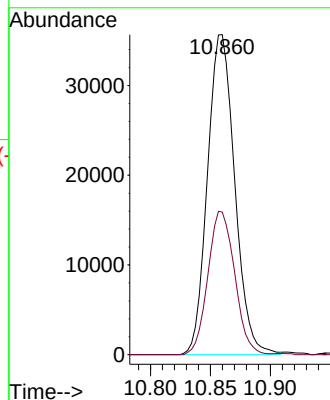
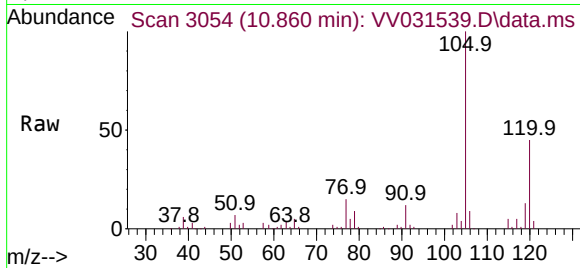




#63
 1,2,4-Trimethylbenzene
 Concen: 9.153 ug/L
 RT: 10.860 min Scan# 3053
 Delta R.T. 0.003 min
 Lab File: VV031539.D
 Acq: 15 Jun 2023 18:19

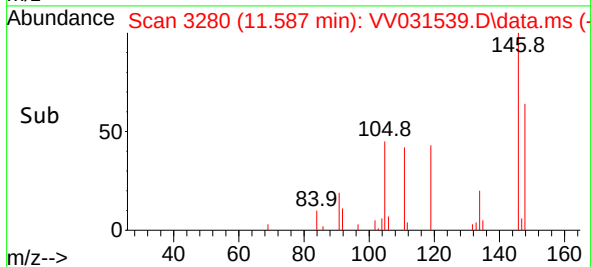
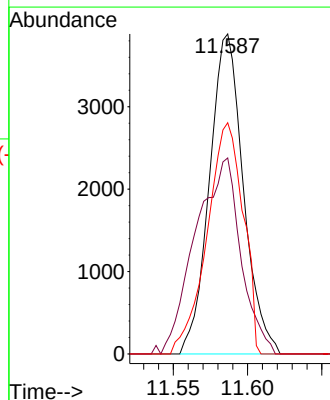
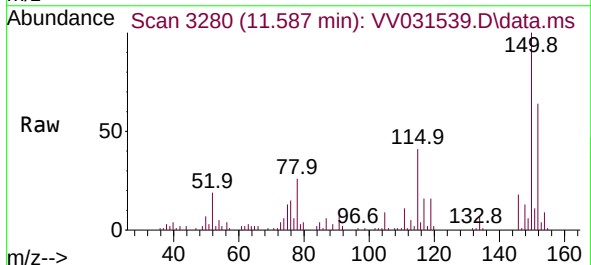
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYT7

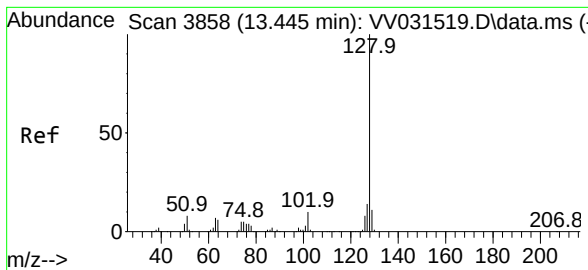
Tgt Ion:105 Resp: 56483
 Ion Ratio Lower Upper
 105 100
 120 43.9 33.4 50.2



#67
 1,2-Dichlorobenzene
 Concen: 1.520 ug/L
 RT: 11.587 min Scan# 3280
 Delta R.T. 0.003 min
 Lab File: VV031539.D
 Acq: 15 Jun 2023 18:19

Tgt Ion:146 Resp: 6164
 Ion Ratio Lower Upper
 146 100
 111 68.9 35.9 53.9#
 148 72.3 52.6 78.8





#71
Naphthalene
Concen: 1.600 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.007 min
Lab File: VV031539.D
Acq: 15 Jun 2023 18:19

Instrument :
MSVOA_V
ClientSampleId :
EXYT7

Tgt Ion:	128	Resp:	10874
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	9.5	8.6	13.0

