

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101422\
 Data File : VV028556.D
 Acq On : 14 Oct 2022 18:25
 Operator : SY/MD
 Sample : N5109-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ06

Quant Time: Oct 15 02:58:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Oct 15 02:57:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	244339	5.000	ug/L	0.01
28) Chlorobenzene-d5	8.847	117	227358	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	103789	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	112980	5.373	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	107.400%
7) Chloroethane-d5	1.568	69	85846	4.966	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.400%
11) 1,1-Dichloroethene-d2	2.105	63	148743	3.905	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.200%
20) 2-Butanone-d5	3.902	46	126456	27.973	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	55.940%
24) Chloroform-d	4.346	84	138057	4.288	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.800%
26) 1,2-Dichloroethane-d4	5.030	65	67759	4.037	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
32) Benzene-d6	5.047	84	293792	4.002	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.000%
36) 1,2-Dichloropropane-d6	6.066	67	92598	3.909	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	78.200%
41) Toluene-d8	7.313	98	248941	4.280	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.600%
43) trans-1,3-Dichloroprop...	7.622	79	24976	3.121	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	62.400%
46) 2-Hexanone-d5	8.088	63	129477	37.483	ug/L	-0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	74.960%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	53792	3.813	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.200%
66) 1,2-Dichlorobenzene-d4	11.615	152	74731	4.363	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	35284	1.568	ug/L	97
8) Chloroethane	1.568	64	6790	0.465	ug/L #	62
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	1437	0.089	ug/L #	26
12) 1,1-Dichloroethene	2.117	96	8205	0.540	ug/L #	1
17) Methyl tert-butyl Ether	2.770	73	1424	0.037	ug/L #	1
18) trans-1,2-Dichloroethene	2.757	96	1925	0.121	ug/L #	90
19) 1,1-Dichloroethane	3.188	63	28121	0.789	ug/L	96
22) cis-1,2-Dichloroethene	3.905	96	149684	8.356	ug/L #	93
25) Chloroform	4.371	83	125510	3.714	ug/L	100
29) 1,1,1-Trichloroethane	4.603	97	50079	1.594	ug/L	99
30) Cyclohexane	4.677	56	5621	0.155	ug/L #	70
31) Carbon tetrachloride	4.606	117	6541	0.265	ug/L	93
34) Trichloroethene	5.924	95	5231	0.273	ug/L	92
35) Methylcyclohexane	6.066	83	20870	0.653	ug/L #	18
37) 1,2-Dichloropropane	6.066	63	10148	0.496	ug/L #	89
51) Chlorobenzene	8.879	112	20583	0.440	ug/L	99
53) m,p-Xylene	9.143	106	1490	0.048	ug/L	62
61) 1,2,3-Trichloropropane	11.178	75	4354	0.470	ug/L #	55
62) 1,3,5-Trimethylbenzene	10.535	105	2436	0.107	ug/L	93

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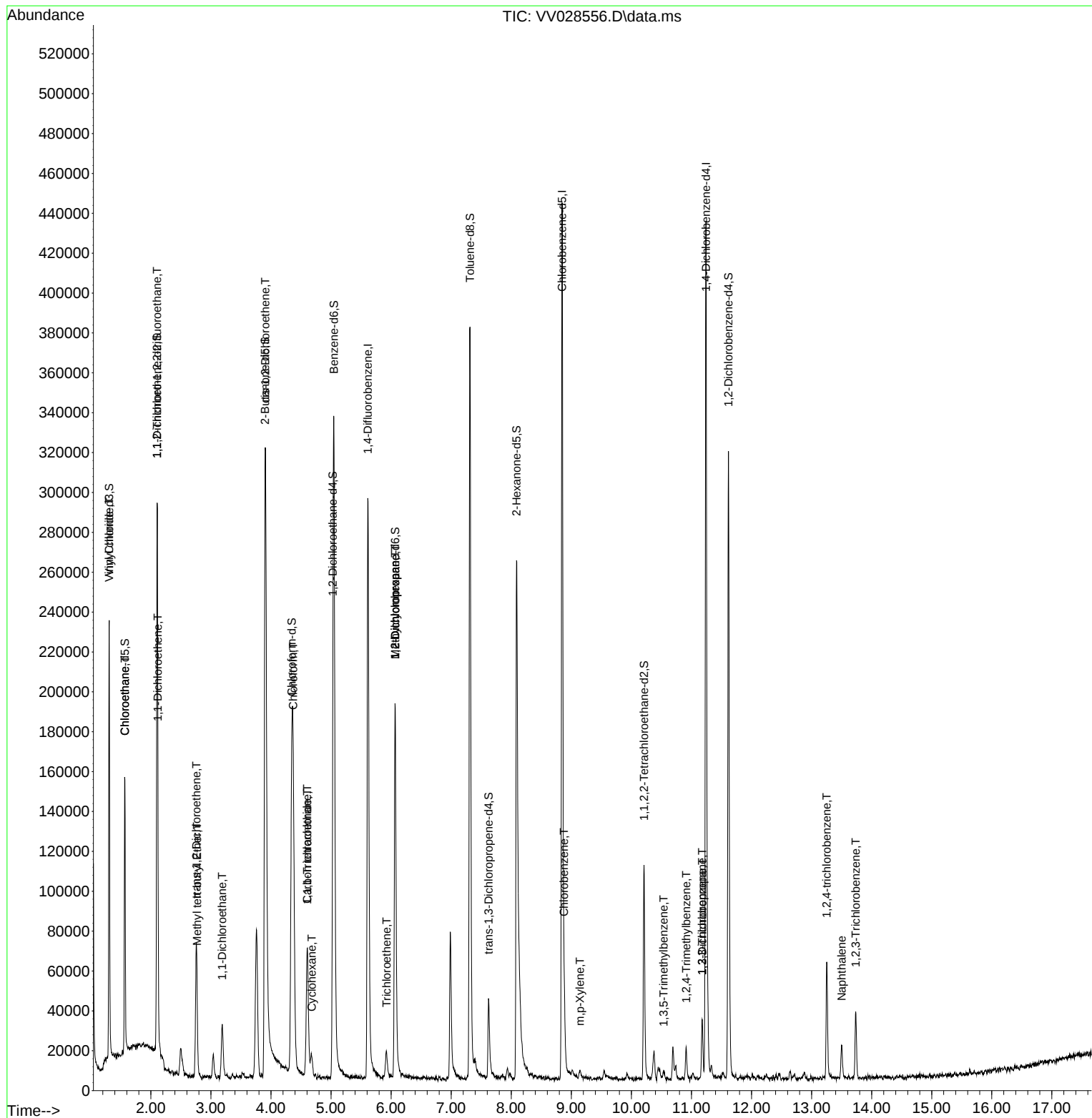
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.911	105	8433	0.135	ug/L	96
64) 1,3-Dichlorobenzene	11.178	146	11243	0.352	ug/L	97
70) 1,2,4-trichlorobenzene	13.252	180	15411	0.865	ug/L	95
71) Naphthalene	13.503	128	13610	0.510	ug/L	97
72) 1,2,3-Trichlorobenzene	13.734	180	8533	0.581	ug/L	97

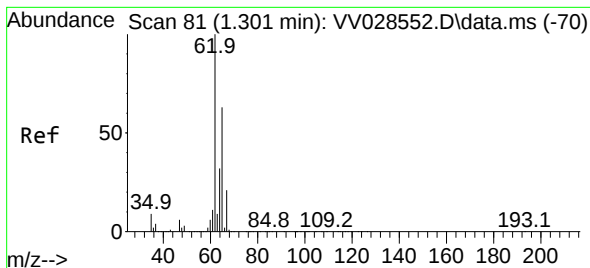
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.568 ug/L

RT: 1.307 min Scan# 81

Delta R.T. 0.006 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

Instrument :

MSVOA_V

ClientSampleId :

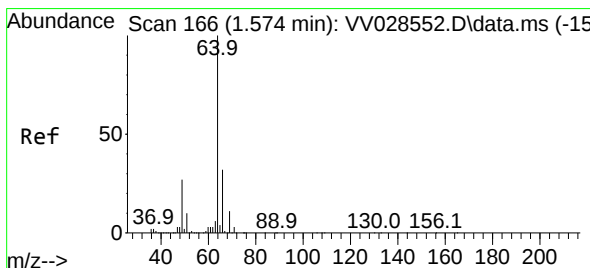
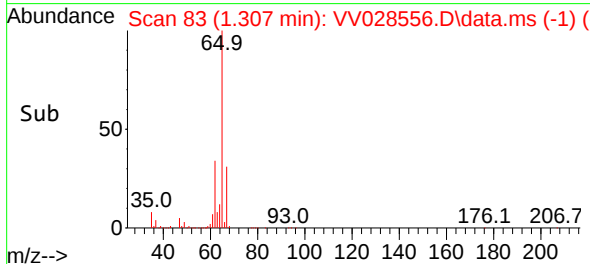
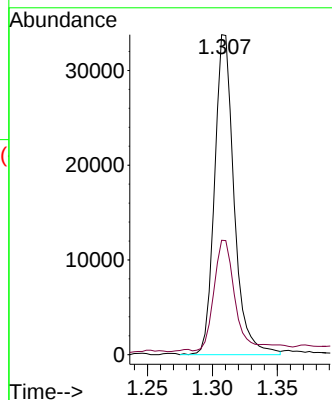
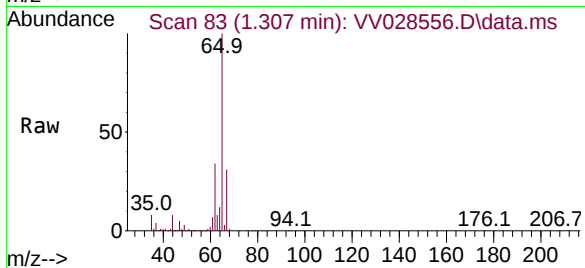
BFZ06

Tgt Ion: 62 Resp: 35284

Ion Ratio Lower Upper

62 100

64 35.7 23.7 44.1



#8

Chloroethane

Concen: 0.465 ug/L

RT: 1.568 min Scan# 164

Delta R.T. -0.006 min

Lab File: VV028556.D

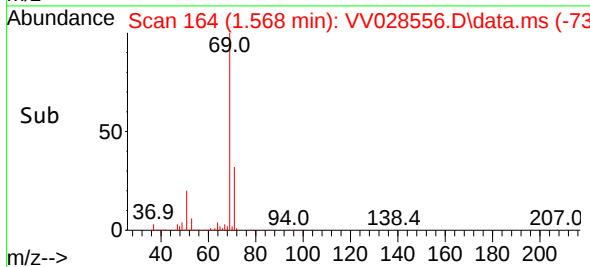
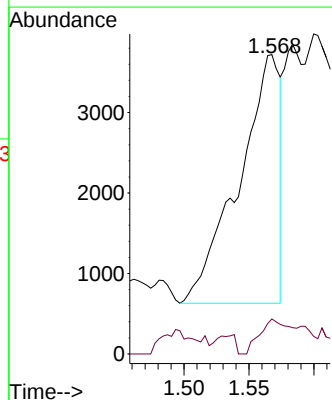
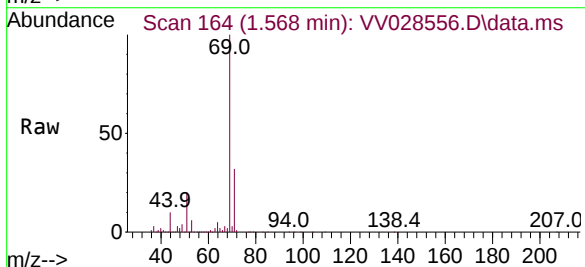
Acq: 14 Oct 2022 18:25

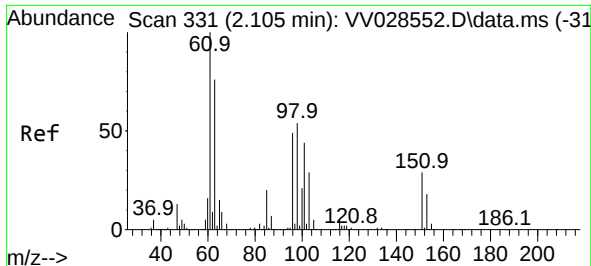
Tgt Ion: 64 Resp: 6790

Ion Ratio Lower Upper

64 100

66 11.7 23.0 42.8#

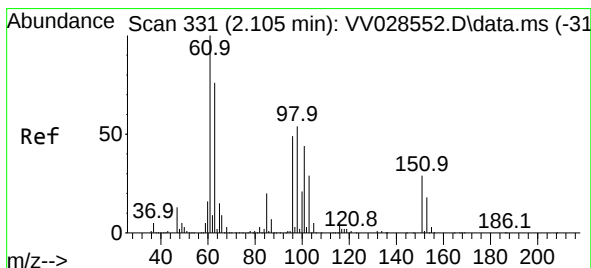
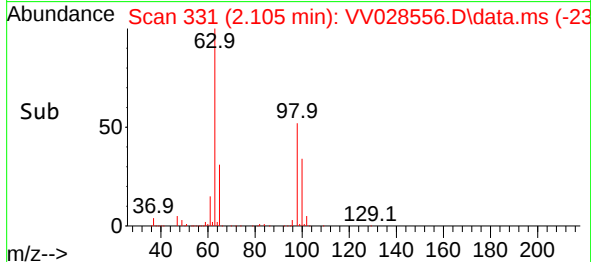
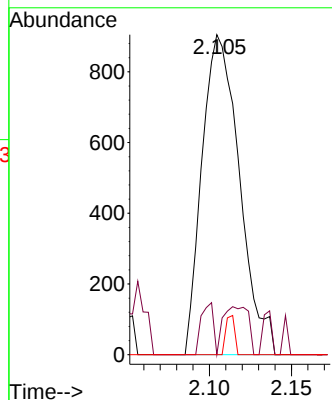
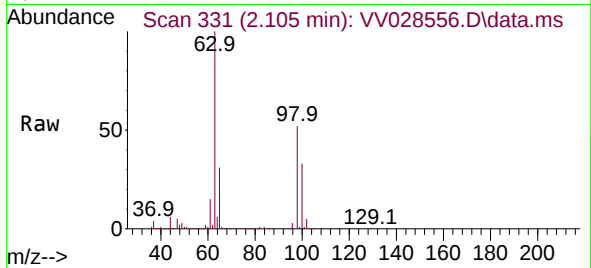




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.089 ug/L
 RT: 2.105 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV028556.D
 Acq: 14 Oct 2022 18:25

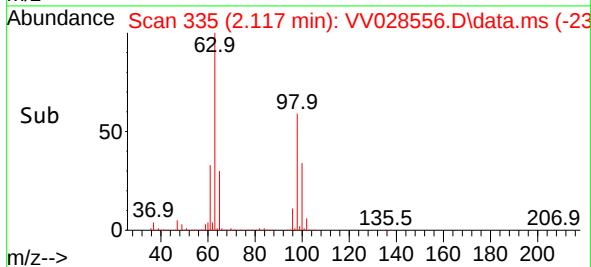
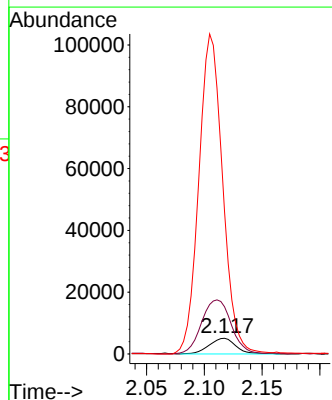
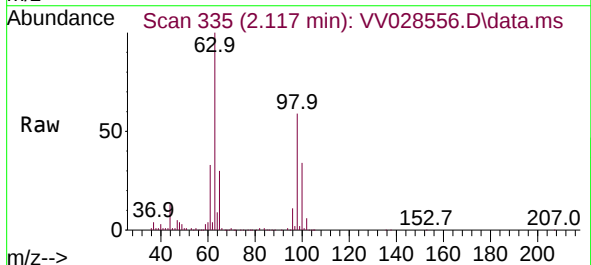
Instrument :
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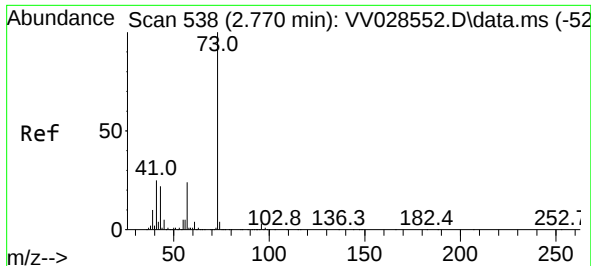
Tgt Ion:101 Resp: 1437
 Ion Ratio Lower Upper
 101 100
 85 5.2 37.3 55.9#
 151 0.0 52.8 79.2#



#12
 1,1-Dichloroethene
 Concen: 0.540 ug/L
 RT: 2.117 min Scan# 335
 Delta R.T. 0.013 min
 Lab File: VV028556.D
 Acq: 14 Oct 2022 18:25

Tgt Ion: 96 Resp: 8205
 Ion Ratio Lower Upper
 96 100
 61 299.5 142.9 265.5#
 63 905.7 102.3 190.1#

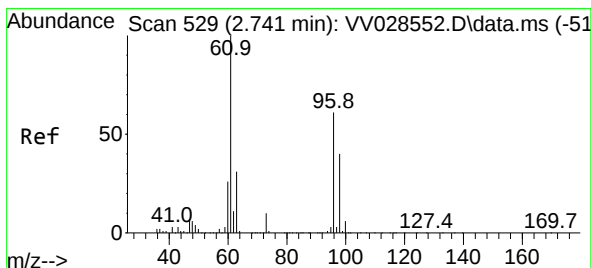
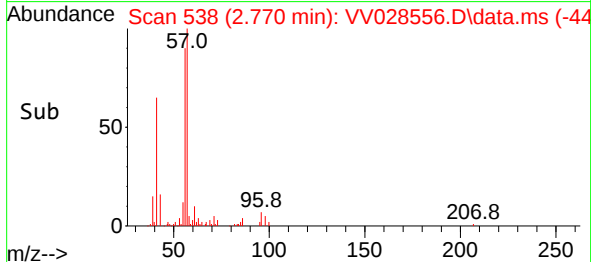
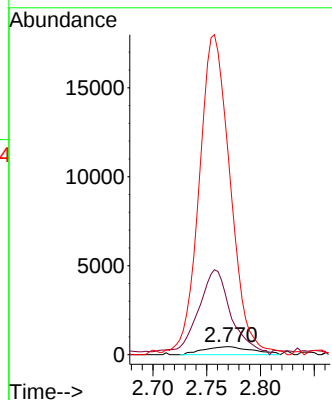
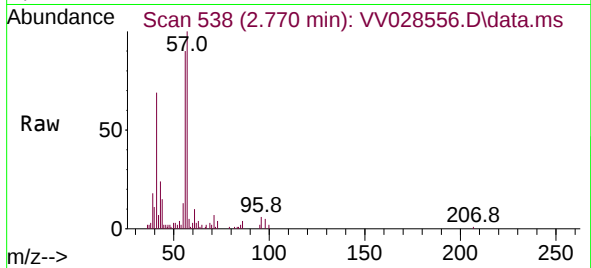




#17
Methyl tert-butyl Ether
Concen: 0.037 ug/L
RT: 2.770 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

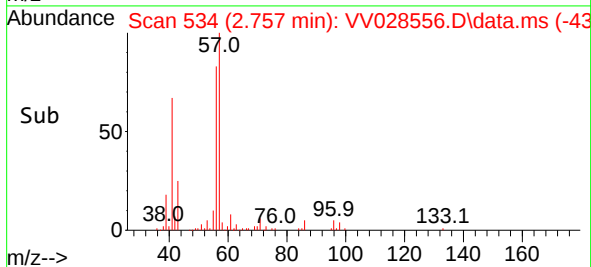
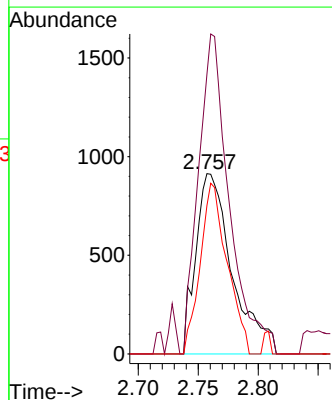
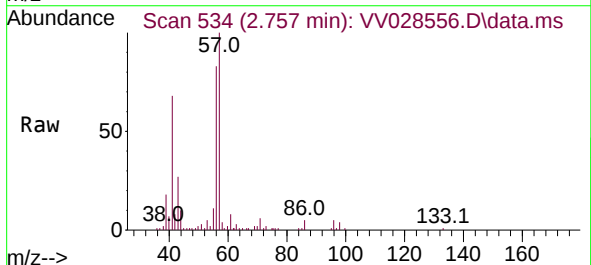
Instrument :
MSVOA_V
ClientSampleId :
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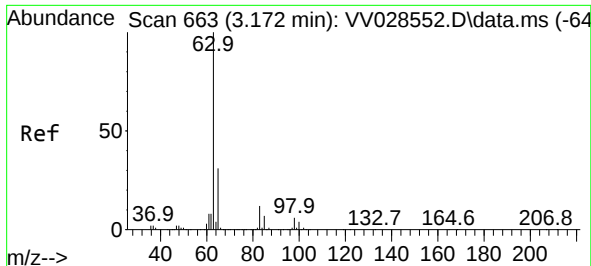
Tgt Ion: 73 Resp: 1424
Ion Ratio Lower Upper
73 100
43 735.6 18.2 27.2#
57 2549.6 19.5 29.3#



#18
trans-1,2-Dichloroethene
Concen: 0.121 ug/L
RT: 2.757 min Scan# 534
Delta R.T. 0.016 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

Tgt Ion: 96 Resp: 1925
Ion Ratio Lower Upper
96 100
61 155.0 111.2 206.6
98 82.3 42.9 79.7#





#19

1,1-Dichloroethane

Concen: 0.789 ug/L

RT: 3.188 min Scan# 60

Delta R.T. 0.016 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

Instrument :

MSVOA_V

ClientSampleId :

BFZ06

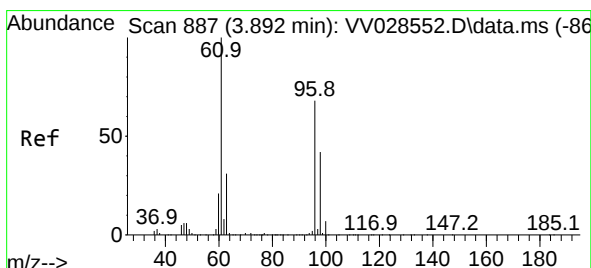
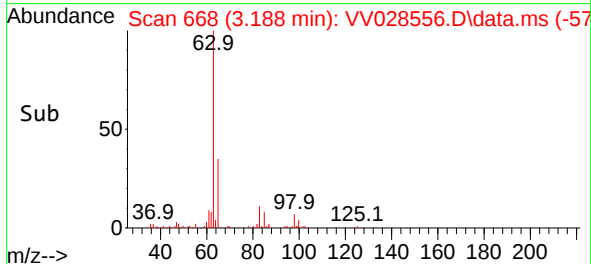
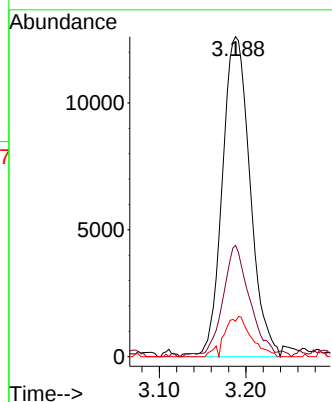
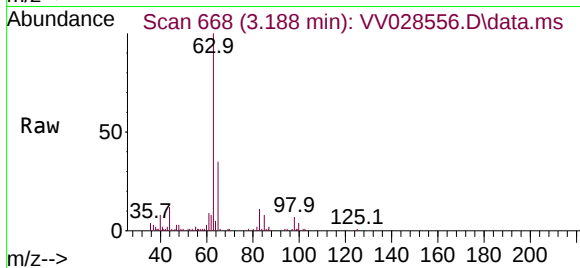
Tgt Ion: 63 Resp: 28121

Ion Ratio Lower Upper

63 100

65 34.5 22.3 41.5

83 10.6 8.5 15.7



#22

cis-1,2-Dichloroethene

Concen: 8.356 ug/L

RT: 3.905 min Scan# 891

Delta R.T. 0.013 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

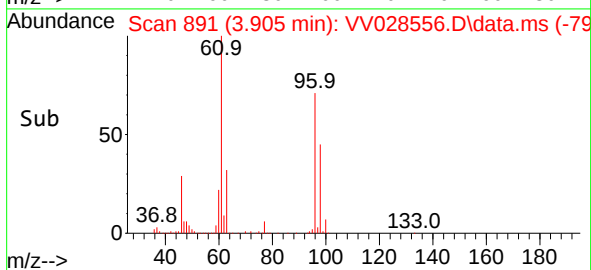
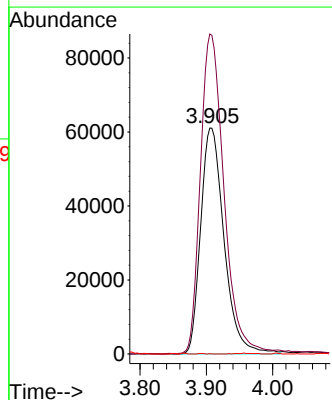
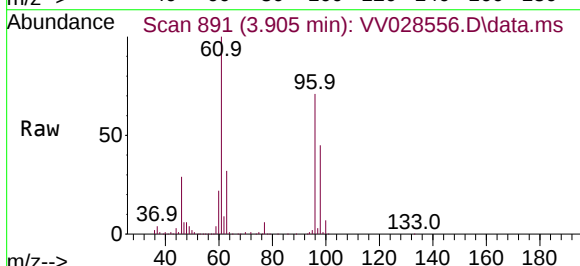
Tgt Ion: 96 Resp: 149684

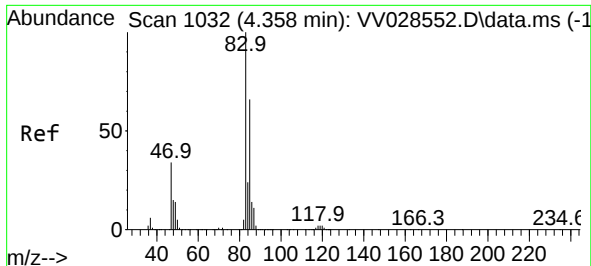
Ion Ratio Lower Upper

96 100

61 141.6 105.1 195.3

68 0.2 0.5 0.9#





#25

Chloroform

Concen: 3.714 ug/L

RT: 4.371 min Scan# 1108

Delta R.T. 0.013 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

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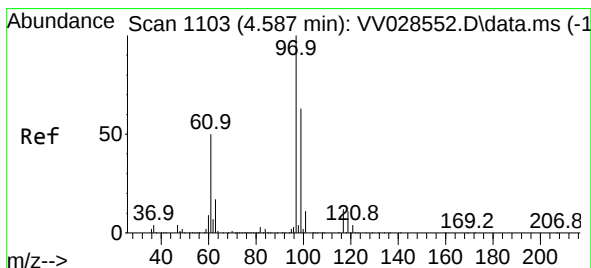
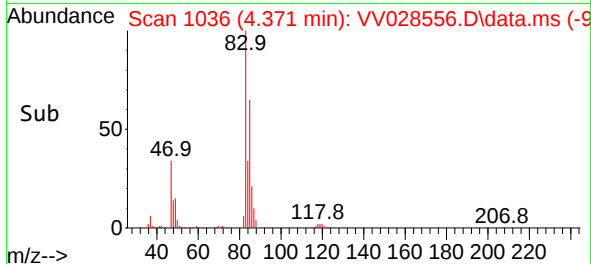
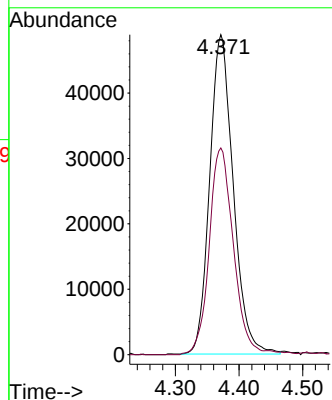
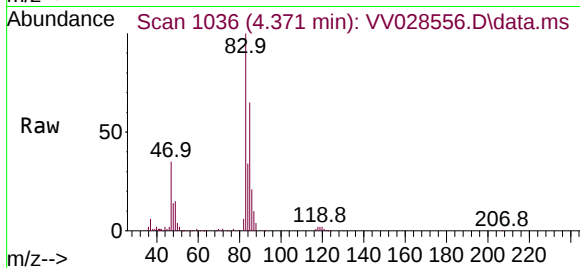
BFZ06

Tgt Ion: 83 Resp: 125510

Ion Ratio Lower Upper

83 100

85 64.6 45.1 83.9



#29

1,1,1-Trichloroethane

Concen: 1.594 ug/L

RT: 4.603 min Scan# 1108

Delta R.T. 0.016 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

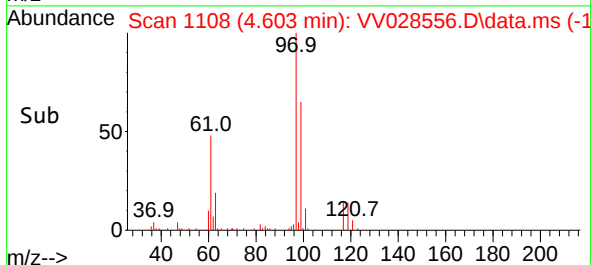
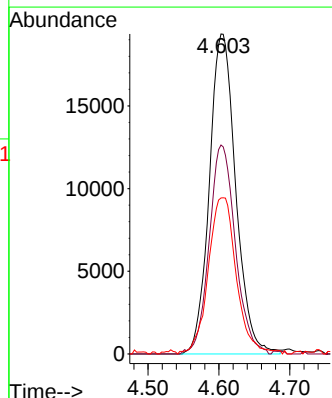
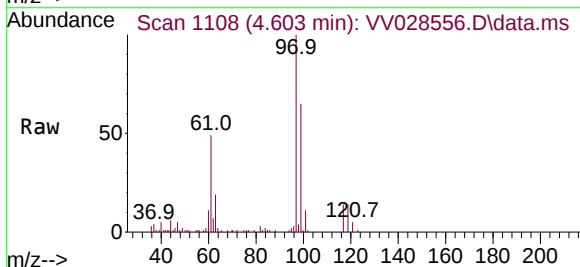
Tgt Ion: 97 Resp: 50079

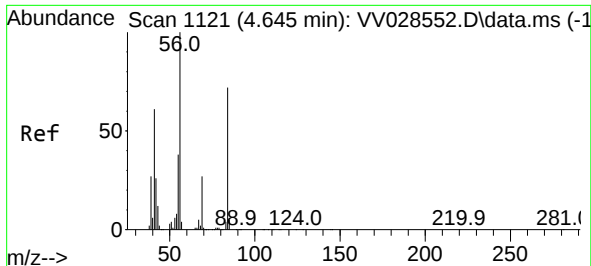
Ion Ratio Lower Upper

97 100

99 64.7 52.6 78.8

61 51.6 42.1 63.1

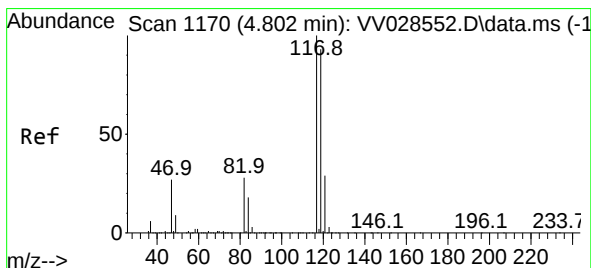
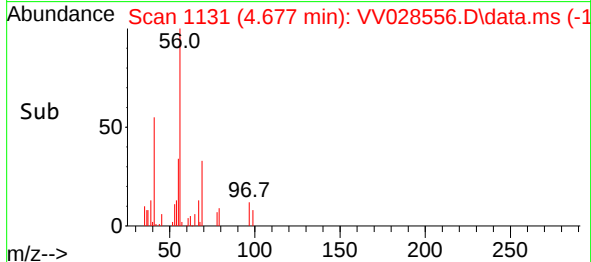
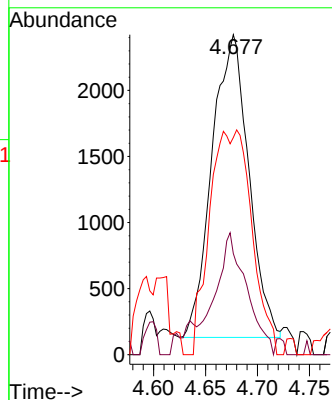
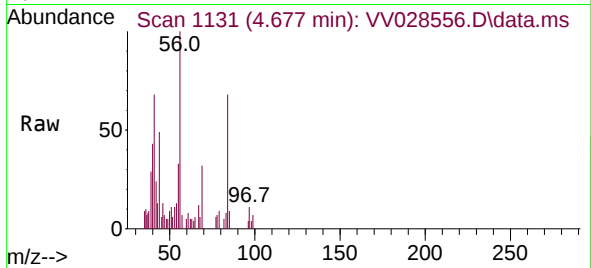




#30
Cyclohexane
Concen: 0.155 ug/L
RT: 4.677 min Scan# 1109
Delta R.T. 0.032 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

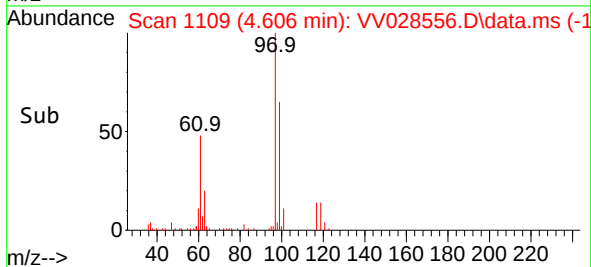
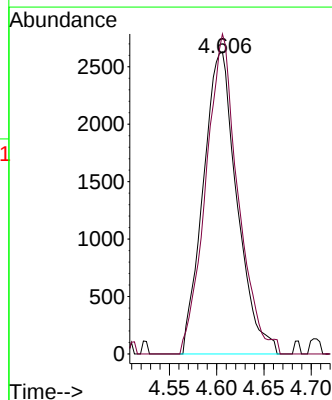
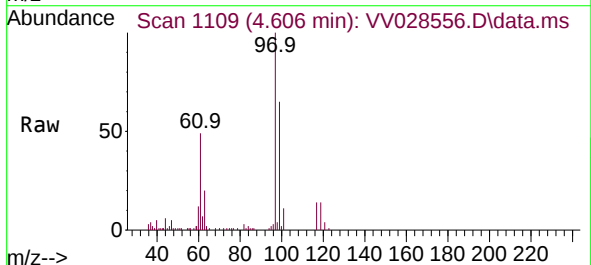
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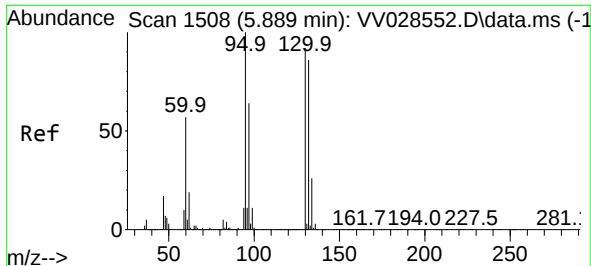
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Ion Ratio Lower Upper
56 100
69 34.1 22.4 33.6#
84 43.7 60.1 90.1#



#31
Carbon tetrachloride
Concen: 0.265 ug/L
RT: 4.606 min Scan# 1109
Delta R.T. -0.196 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

Tgt Ion: 117 Resp: 6541
Ion Ratio Lower Upper
117 100
119 100.8 75.5 113.3

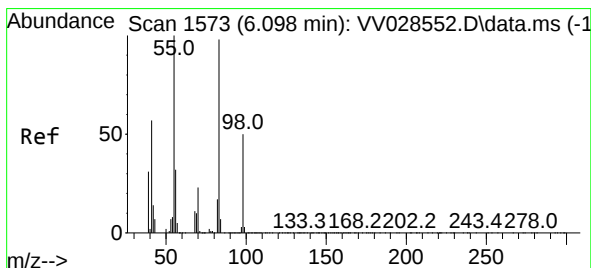
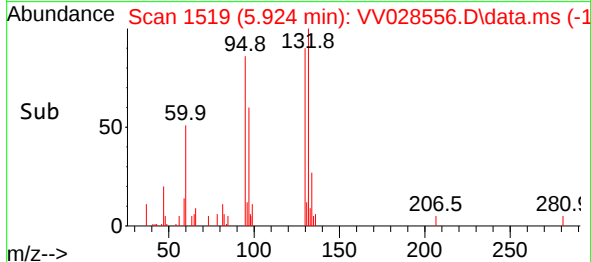
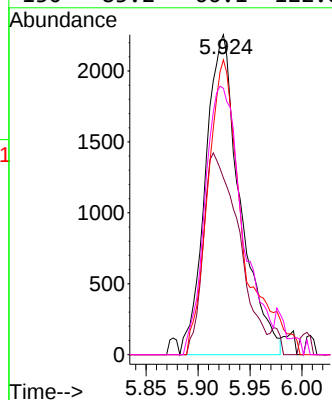
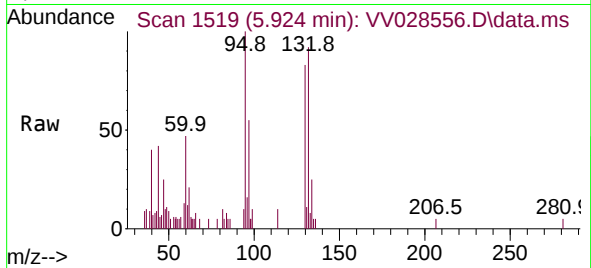




#34
Trichloroethene
Concen: 0.273 ug/L
RT: 5.924 min Scan# 1519
Delta R.T. 0.035 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

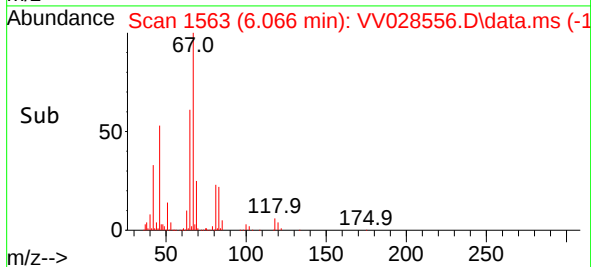
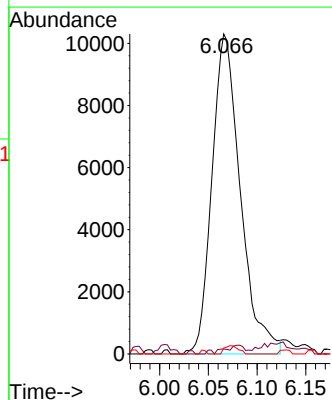
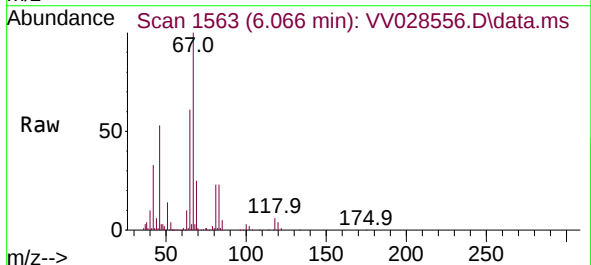
Instrument :
MSVOA_V
ClientSampleId :
BFZ06

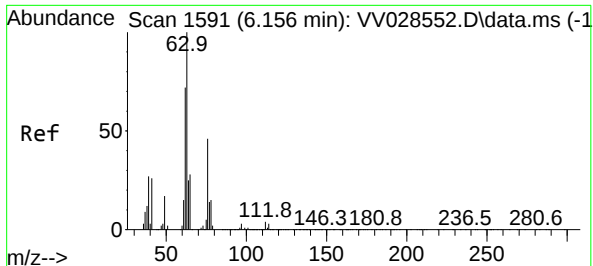
Tgt Ion:	95	Resp:	5231
Ion	Ratio	Lower	Upper
95	100		
97	55.2	46.2	85.8
132	92.2	65.1	120.9
130	83.2	66.1	122.8



#35
Methylcyclohexane
Concen: 0.653 ug/L
RT: 6.066 min Scan# 1563
Delta R.T. -0.032 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

Tgt Ion:	83	Resp:	20870
Ion	Ratio	Lower	Upper
83	100		
55	0.6	65.0	97.6#
98	1.3	36.4	54.6#

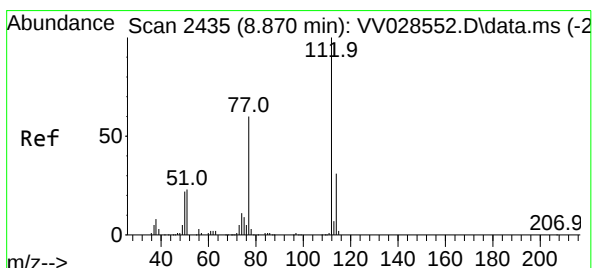
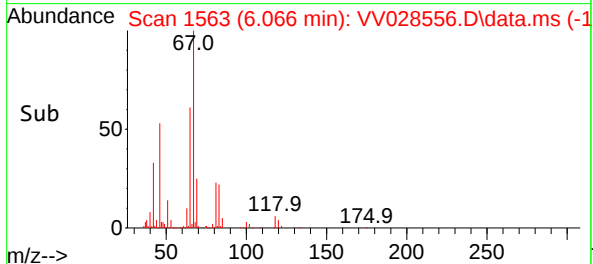
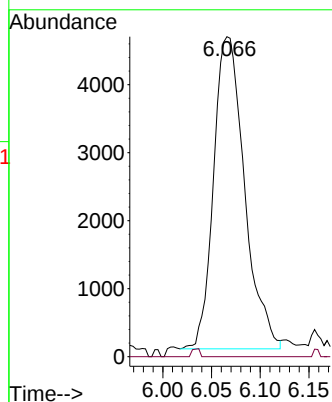
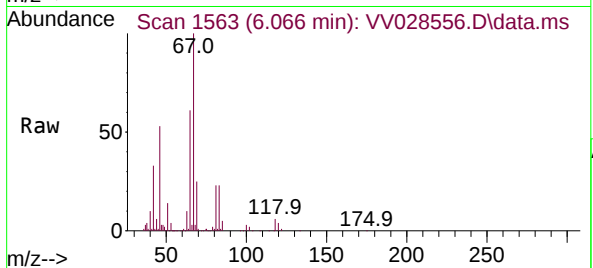




#37
1,2-Dichloropropane
Concen: 0.496 ug/L
RT: 6.066 min Scan# 11
Delta R.T. -0.090 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

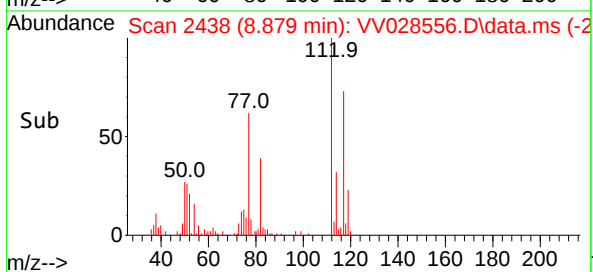
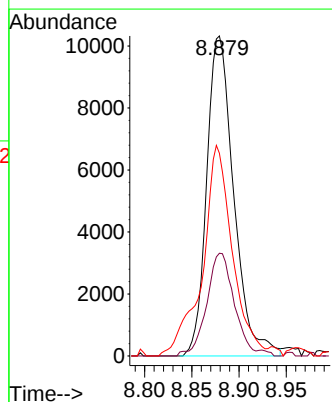
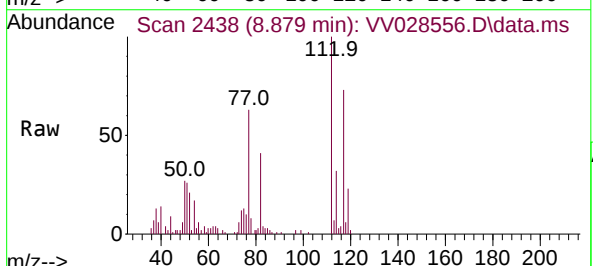
Instrument :
MSVOA_V
ClientSampleId :
BFZ06

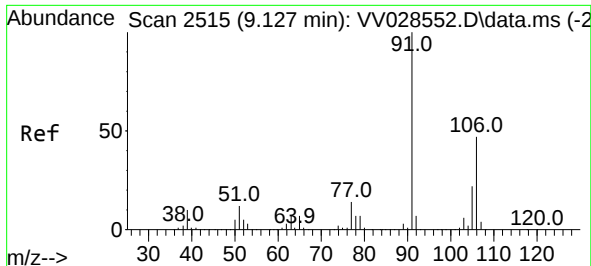
Tgt Ion: 63 Resp: 10148
Ion Ratio Lower Upper
63 100
112 0.6 3.4 5.2#



#51
Chlorobenzene
Concen: 0.440 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. 0.010 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

Tgt Ion: 112 Resp: 20583
Ion Ratio Lower Upper
112 100
114 32.1 22.4 41.6
77 63.4 50.2 75.2

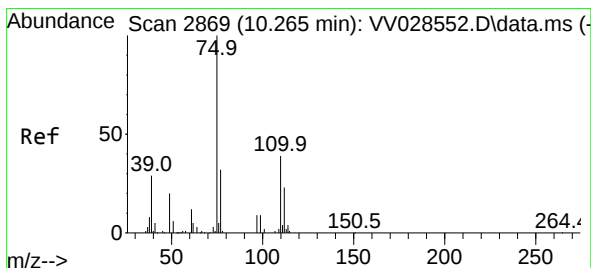
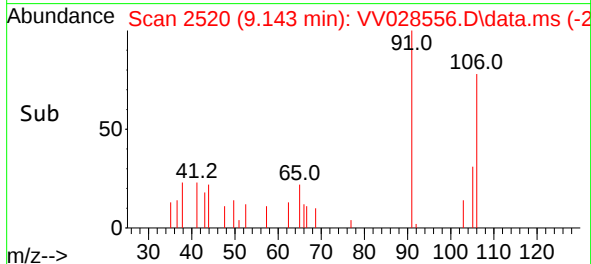
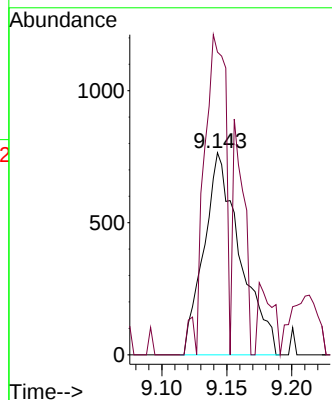
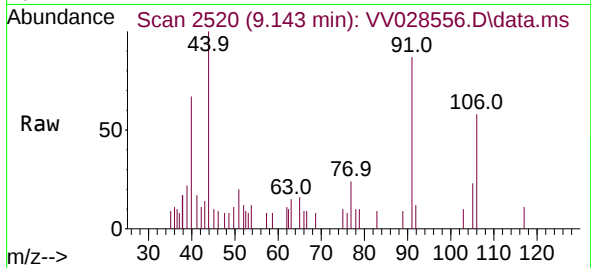




#53
m,p-Xylene
Concen: 0.048 ug/L
RT: 9.143 min Scan# 21
Delta R.T. 0.016 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

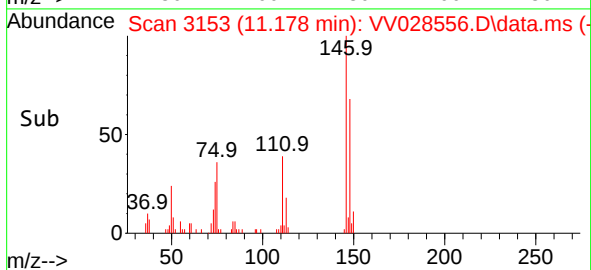
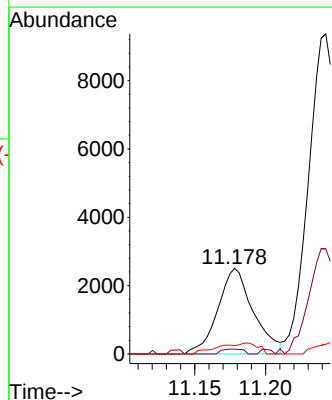
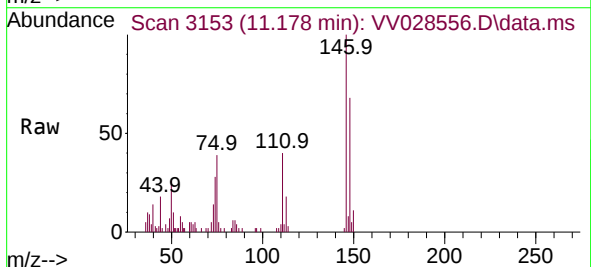
Instrument :
MSVOA_V
ClientSampleId :
BFZ06

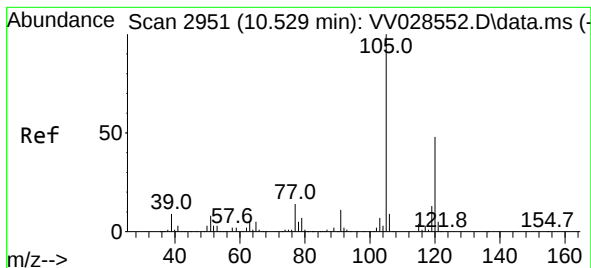
Tgt Ion:106 Resp: 1490
Ion Ratio Lower Upper
106 100
91 149.8 146.9 272.9



#61
1,2,3-Trichloropropane
Concen: 0.470 ug/L
RT: 11.178 min Scan# 3153
Delta R.T. 0.913 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

Tgt Ion: 75 Resp: 4354
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
110 14.4 28.3 42.5#





#62

1,3,5-Trimethylbenzene

Concen: 0.107 ug/L

RT: 10.535 min Scan# 2951

Delta R.T. 0.006 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

Instrument :

MSVOA_V

ClientSampleId :

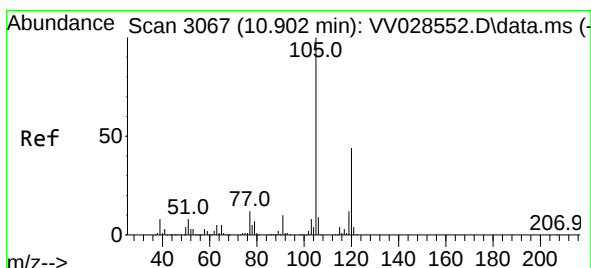
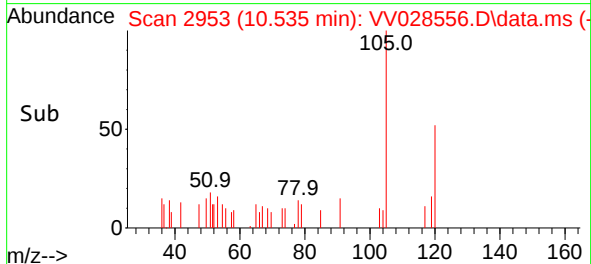
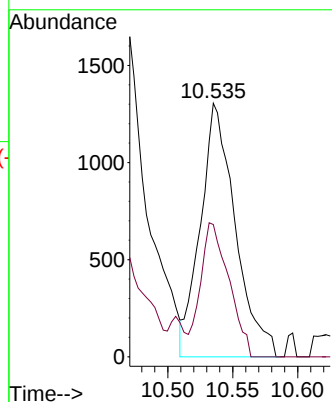
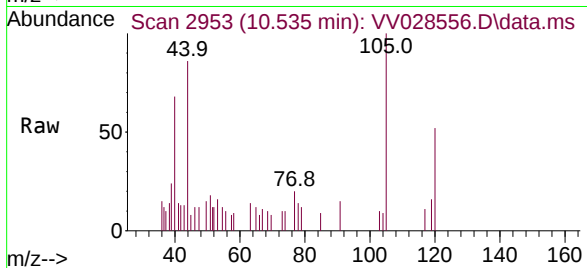
BFZ06

Tgt Ion:105 Resp: 2436

Ion Ratio Lower Upper

105 100

120 42.9 38.0 57.0



#63

1,2,4-Trimethylbenzene

Concen: 0.135 ug/L

RT: 10.911 min Scan# 3070

Delta R.T. 0.010 min

Lab File: VV028556.D

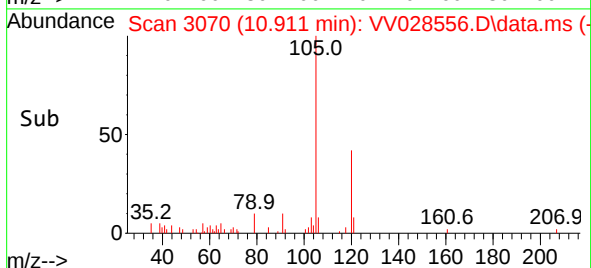
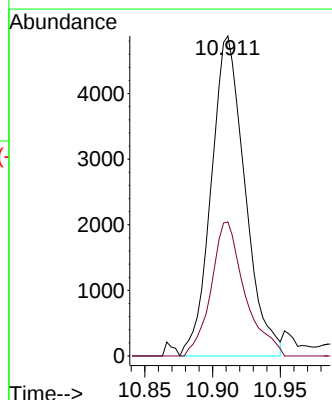
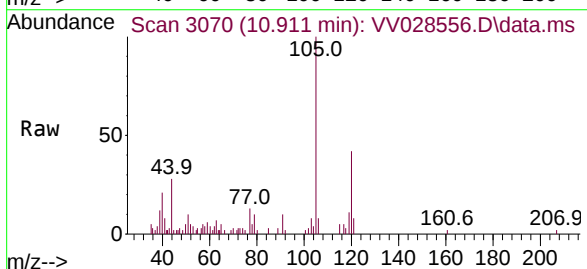
Acq: 14 Oct 2022 18:25

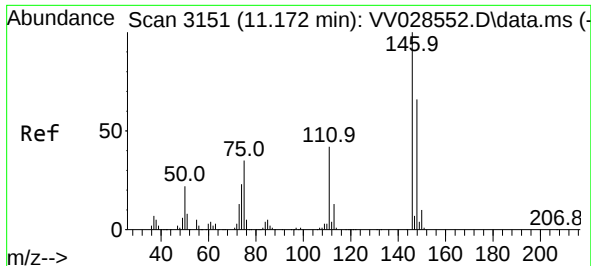
Tgt Ion:105 Resp: 8433

Ion Ratio Lower Upper

105 100

120 41.9 35.6 53.4

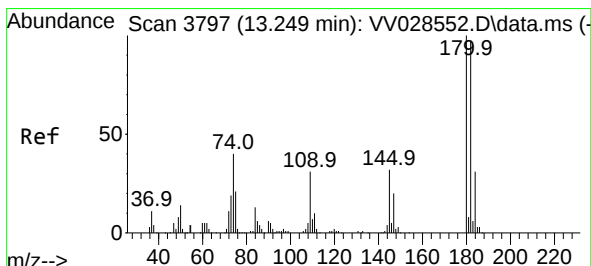
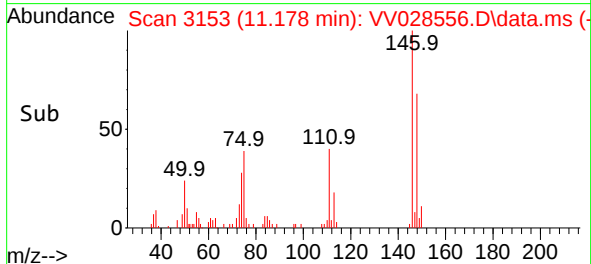
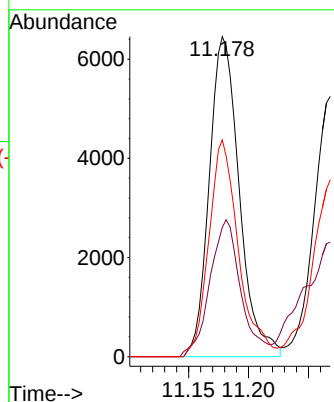
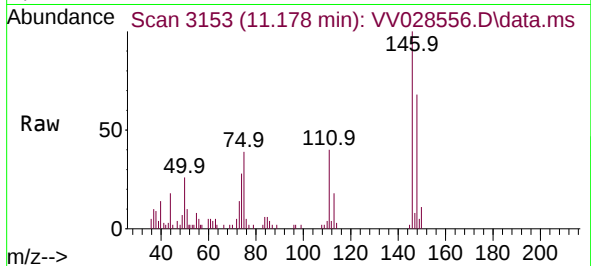




#64
1,3-Dichlorobenzene
Concen: 0.352 ug/L
RT: 11.178 min Scan# 3151
Delta R.T. 0.006 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

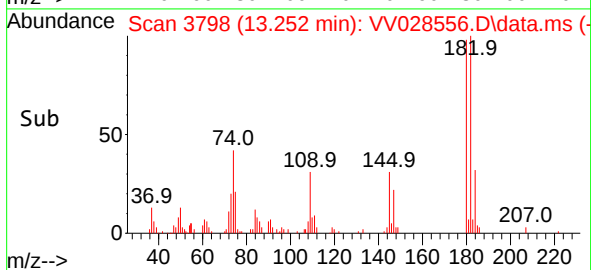
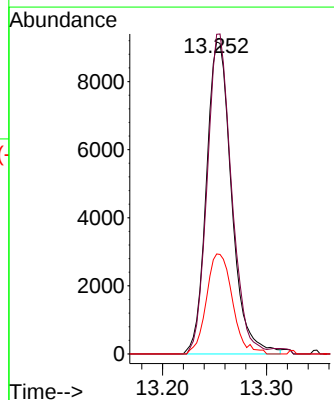
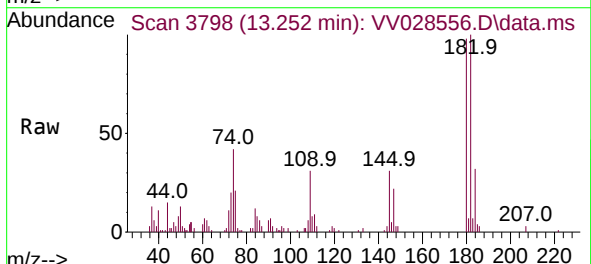
Instrument :
MSVOA_V
ClientSampleId :
BFZ06

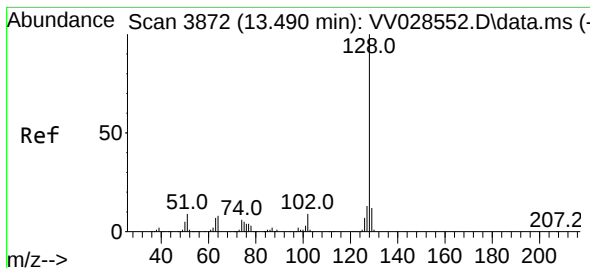
Tgt Ion:146 Resp: 11243
Ion Ratio Lower Upper
146 100
111 40.4 28.5 52.9
148 67.7 45.1 83.9



#70
1,2,4-trichlorobenzene
Concen: 0.865 ug/L
RT: 13.252 min Scan# 3798
Delta R.T. 0.003 min
Lab File: VV028556.D
Acq: 14 Oct 2022 18:25

Tgt Ion:180 Resp: 15411
Ion Ratio Lower Upper
180 100
182 98.9 74.2 111.2
145 33.0 25.3 37.9





#71

Naphthalene

Concen: 0.510 ug/L

RT: 13.503 min Scan# 3948

Delta R.T. 0.013 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

Instrument :

MSVOA_V

ClientSampleId :

BFZ06

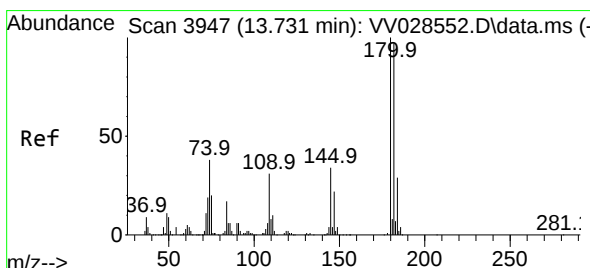
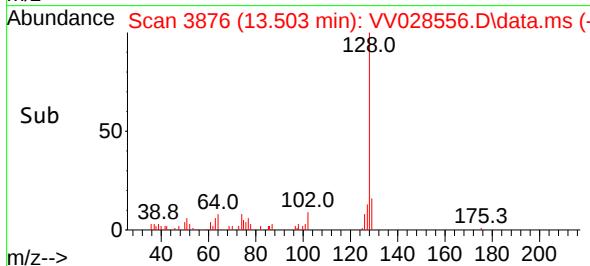
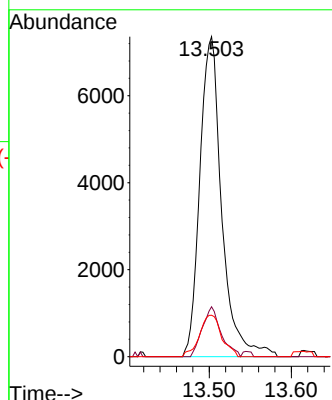
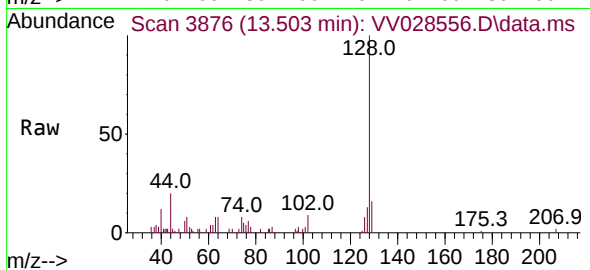
Tgt Ion:128 Resp: 13610

Ion Ratio Lower Upper

128 100

129 13.4 9.0 13.6

127 13.0 10.1 15.1



#72

1,2,3-Trichlorobenzene

Concen: 0.581 ug/L

RT: 13.734 min Scan# 3948

Delta R.T. 0.003 min

Lab File: VV028556.D

Acq: 14 Oct 2022 18:25

Tgt Ion:180 Resp: 8533

Ion Ratio Lower Upper

180 100

182 96.4 76.3 114.5

145 37.0 25.8 38.8

