

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101722\
 Data File : VW028589.D
 Acq On : 17 Oct 2022 15:21
 Operator : SY/MD
 Sample : N5109-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ06

Quant Time: Oct 18 01:23:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Oct 18 01:19:01 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	201784	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	187869	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	88176	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	76756	4.420	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.400%
7) Chloroethane-d5	1.564	69	72779	5.098	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.000%
11) 1,1-Dichloroethene-d2	2.105	63	116945	3.718	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.400%
20) 2-Butanone-d5	3.899	46	133278	35.700	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	71.400%
24) Chloroform-d	4.346	84	136437	5.131	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.600%
26) 1,2-Dichloroethane-d4	5.030	65	67856	4.896	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.000%
32) Benzene-d6	5.047	84	270825	4.465	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.200%
36) 1,2-Dichloropropane-d6	6.066	67	91970	4.698	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.000%
41) Toluene-d8	7.310	98	228391	4.752	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.000%
43) trans-1,3-Dichloroprop...	7.622	79	27797	4.203	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.000%
46) 2-Hexanone-d5	8.088	63	142032	49.760	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.520%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	58362	5.006	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.200%
66) 1,2-Dichlorobenzene-d4	11.615	152	75208	5.169	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	31930	1.718	ug/L	98
12) 1,1-Dichloroethene	2.114	96	7879	0.628	ug/L #	1
18) trans-1,2-Dichloroethene	2.764	96	1727	0.132	ug/L	82
19) 1,1-Dichloroethane	3.185	63	26715	0.907	ug/L	99
22) cis-1,2-Dichloroethene	3.905	96	137727	9.310	ug/L #	97
25) Chloroform	4.371	83	120557	4.320	ug/L	97
29) 1,1,1-Trichloroethane	4.603	97	47561	1.832	ug/L	97
30) Cyclohexane	4.680	56	5671	0.189	ug/L #	61
31) Carbon tetrachloride	4.603	117	6023	0.295	ug/L	96
34) Trichloroethene	5.921	95	5012	0.316	ug/L	96
35) Methylcyclohexane	6.066	83	20444	0.774	ug/L #	18
44) trans-1,3-Dichloropropene	7.625	75	1422	0.082	ug/L #	79
49) Dibromochloromethane	7.969	129	347	0.035	ug/L #	11
51) Chlorobenzene	8.879	112	17234	0.446	ug/L	99
61) 1,2,3-Trichloropropane	11.178	75	3621	0.460	ug/L #	54
64) 1,3-Dichlorobenzene	11.181	146	9786	0.360	ug/L	96
70) 1,2,4-trichlorobenzene	13.255	180	15190	1.004	ug/L	95
71) Naphthalene	13.503	128	3587	0.158	ug/L	95
72) 1,2,3-Trichlorobenzene	13.734	180	8544	0.685	ug/L	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV101722\
Data File : VV028589.D
Acq On : 17 Oct 2022 15:21
Operator : SY/MD
Sample : N5109-03
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFZ06

Quant Time: Oct 18 01:23:59 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Oct 18 01:19:01 2022
Response via : Initial Calibration

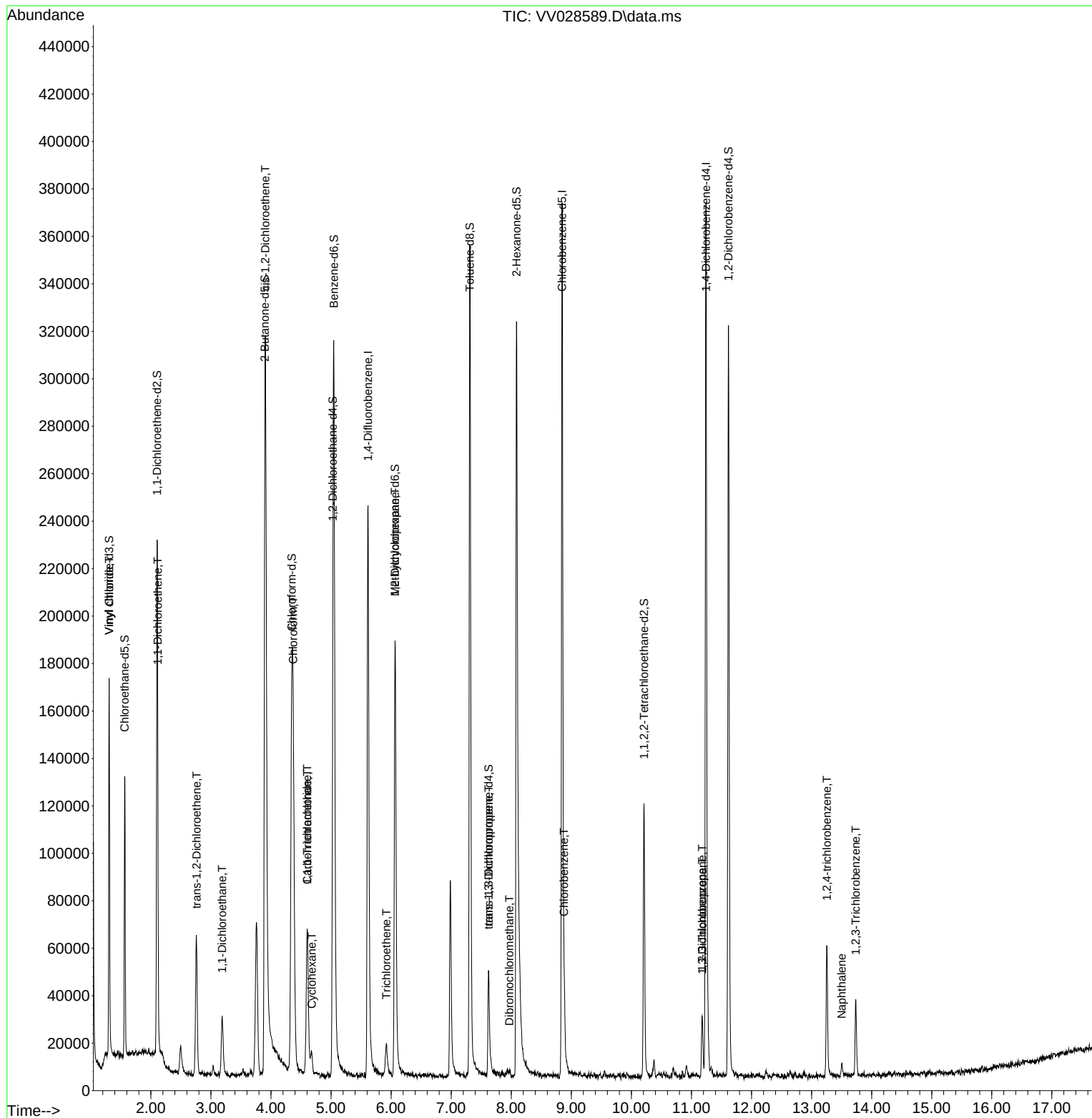
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

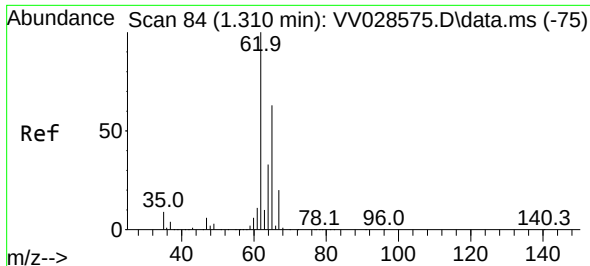
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV101722\
Data File : VV028589.D
Acq On : 17 Oct 2022 15:21
Operator : SY/MD
Sample : N5109-03
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFZ06

Quant Time: Oct 18 01:23:59 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Oct 18 01:19:01 2022
Response via : Initial Calibration

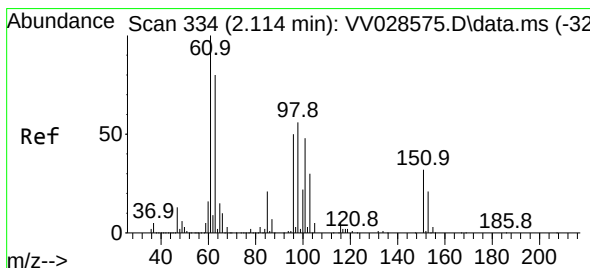
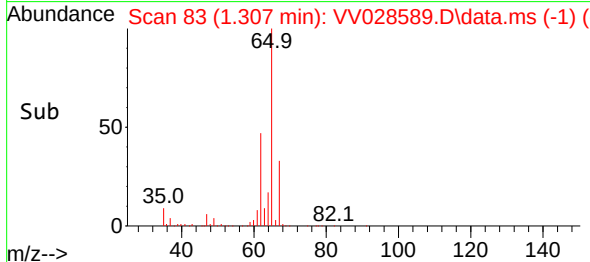
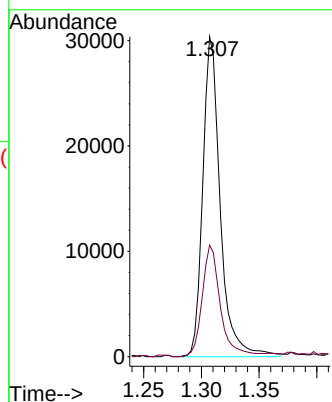
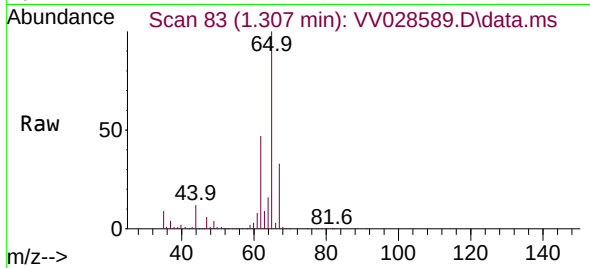




#5
 Vinyl chloride
 Concen: 1.718 ug/L
 RT: 1.307 min Scan# 84
 Delta R.T. -0.003 min
 Lab File: VV028589.D
 Acq: 17 Oct 2022 15:21

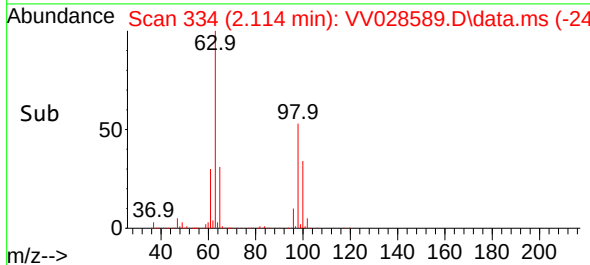
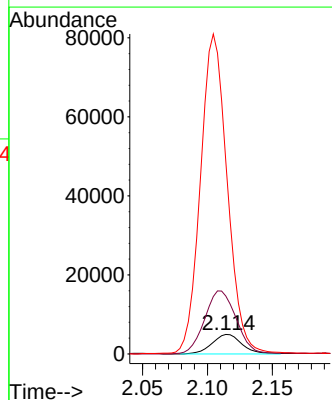
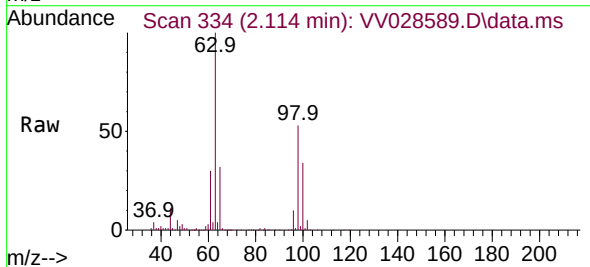
Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ06

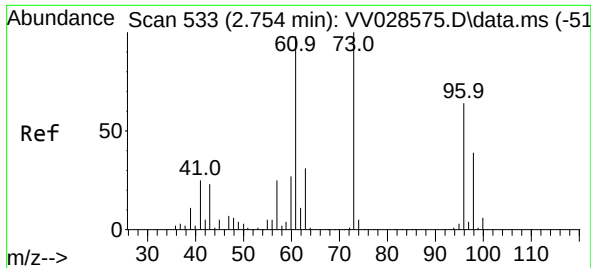
Tgt Ion: 62 Resp: 31930
 Ion Ratio Lower Upper
 62 100
 64 34.9 23.7 44.1



#12
 1,1-Dichloroethene
 Concen: 0.628 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. -0.000 min
 Lab File: VV028589.D
 Acq: 17 Oct 2022 15:21

Tgt Ion: 96 Resp: 7879
 Ion Ratio Lower Upper
 96 100
 61 296.9 142.9 265.5#
 63 987.6 102.3 190.1#

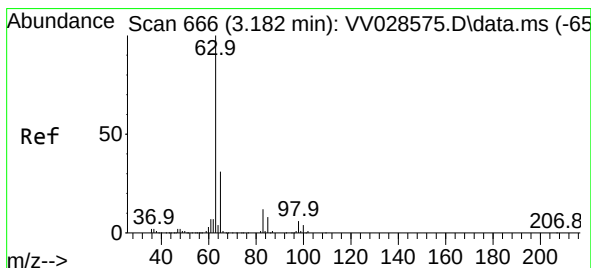
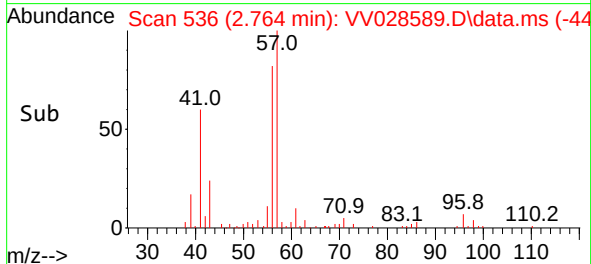
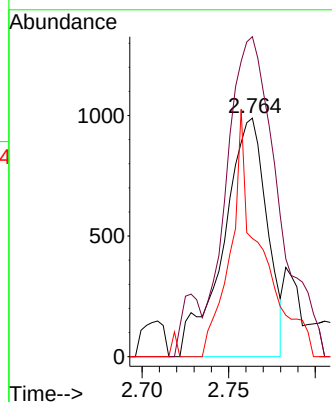
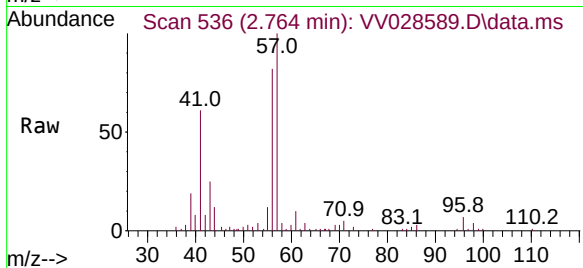




#18
trans-1,2-Dichloroethene
Concen: 0.132 ug/L
RT: 2.764 min Scan# 51
Delta R.T. 0.010 min
Lab File: VV028589.D
Acq: 17 Oct 2022 15:21

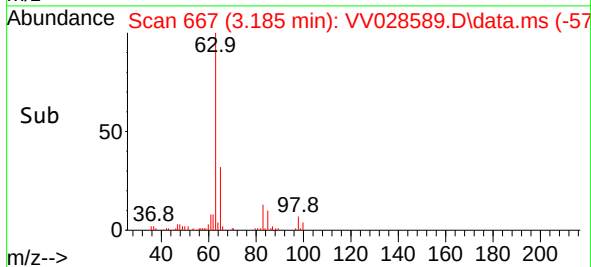
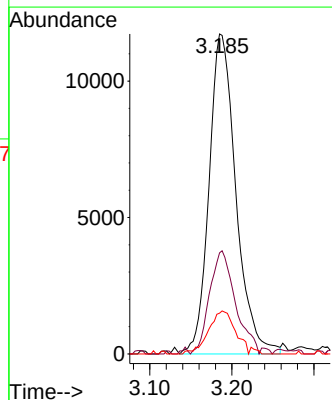
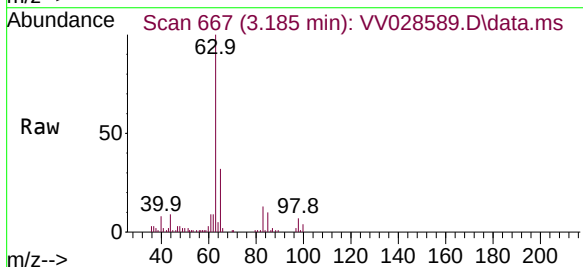
Instrument :
MSVOA_V
ClientSampleId :
BFZ06

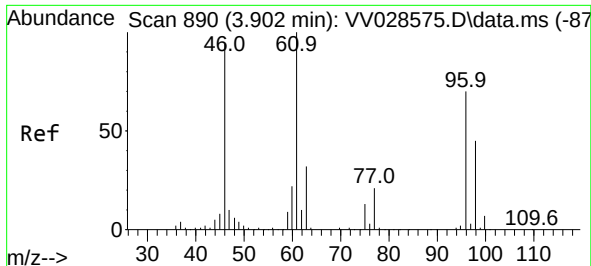
Tgt Ion: 96 Resp: 1727
Ion Ratio Lower Upper
96 100
61 134.2 111.2 206.6
98 49.5 42.9 79.7



#19
1,1-Dichloroethane
Concen: 0.907 ug/L
RT: 3.185 min Scan# 667
Delta R.T. 0.003 min
Lab File: VV028589.D
Acq: 17 Oct 2022 15:21

Tgt Ion: 63 Resp: 26715
Ion Ratio Lower Upper
63 100
65 31.6 22.3 41.5
83 12.7 8.5 15.7

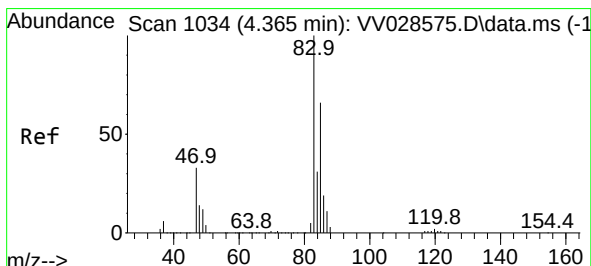
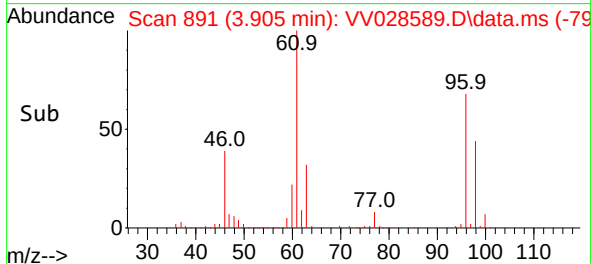
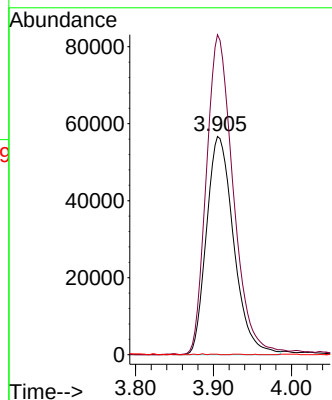
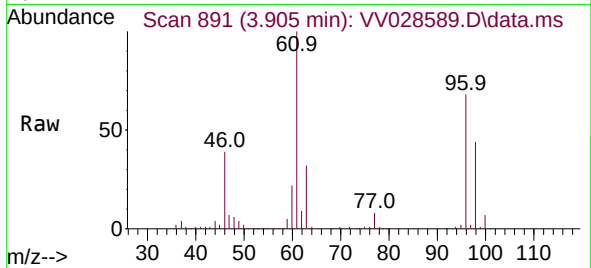




#22
 cis-1,2-Dichloroethene
 Concen: 9.310 ug/L
 RT: 3.905 min Scan# 891
 Delta R.T. 0.003 min
 Lab File: VV028589.D
 Acq: 17 Oct 2022 15:21

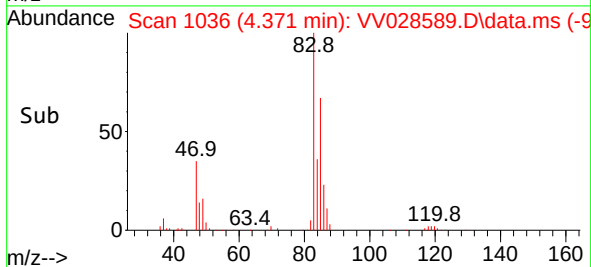
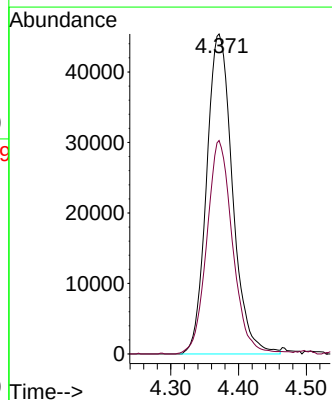
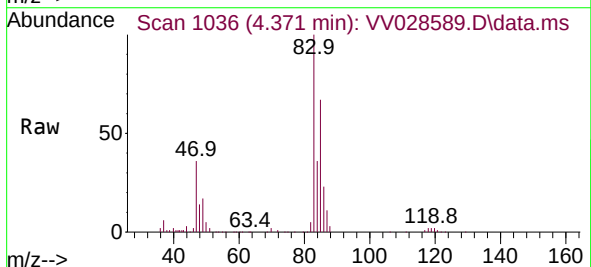
Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ06

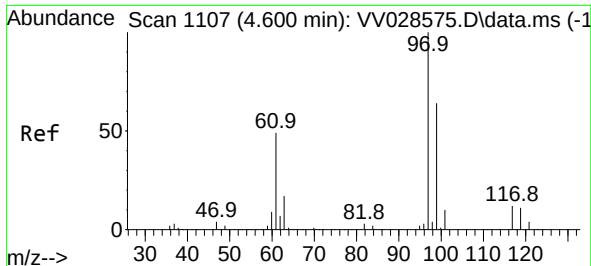
Tgt Ion: 96 Resp: 137727
 Ion Ratio Lower Upper
 96 100
 61 146.6 105.1 195.3
 68 0.2 0.5 0.9#



#25
 Chloroform
 Concen: 4.320 ug/L
 RT: 4.371 min Scan# 1036
 Delta R.T. 0.006 min
 Lab File: VV028589.D
 Acq: 17 Oct 2022 15:21

Tgt Ion: 83 Resp: 120557
 Ion Ratio Lower Upper
 83 100
 85 66.7 45.1 83.9





#29

1,1,1-Trichloroethane

Concen: 1.832 ug/L

RT: 4.603 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

BFZ06

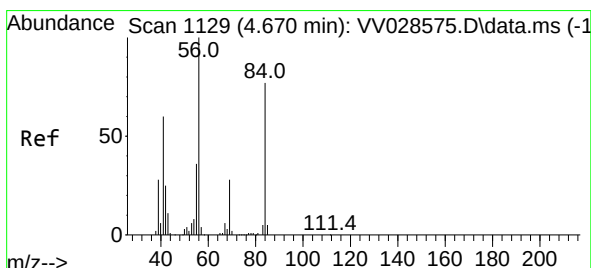
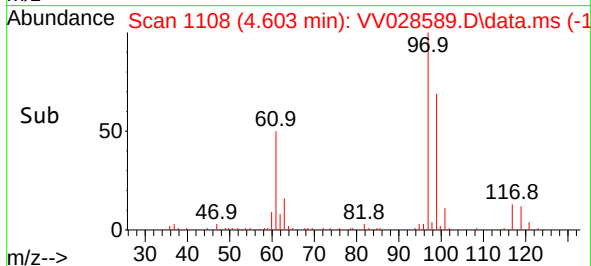
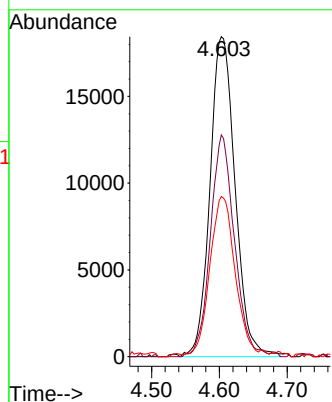
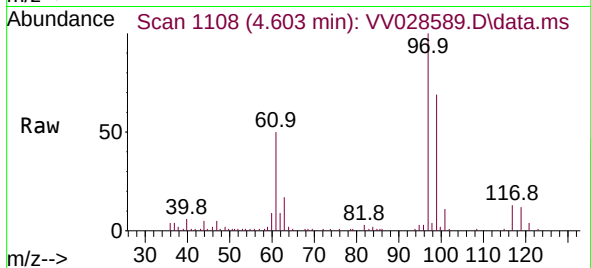
Tgt Ion: 97 Resp: 47561

Ion Ratio Lower Upper

97 100

99 66.2 52.6 78.8

61 48.8 42.1 63.1



#30

Cyclohexane

Concen: 0.189 ug/L

RT: 4.680 min Scan# 1132

Delta R.T. 0.010 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

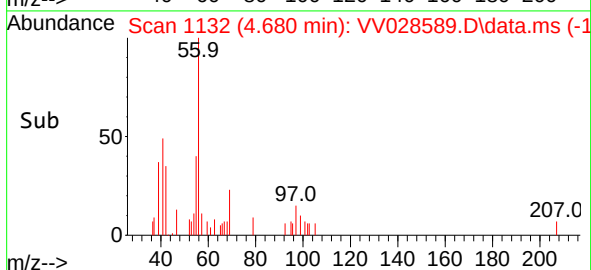
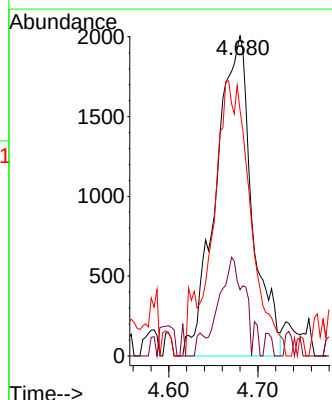
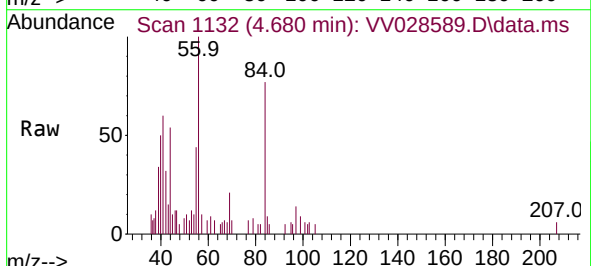
Tgt Ion: 56 Resp: 5671

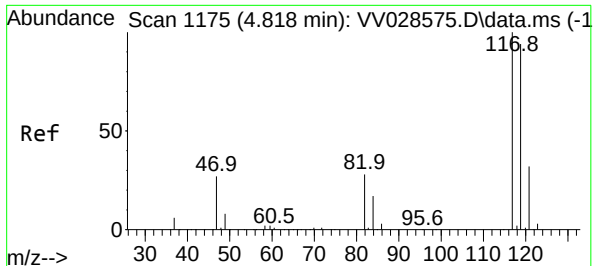
Ion Ratio Lower Upper

56 100

69 20.2 22.4 33.6#

84 33.9 60.1 90.1#

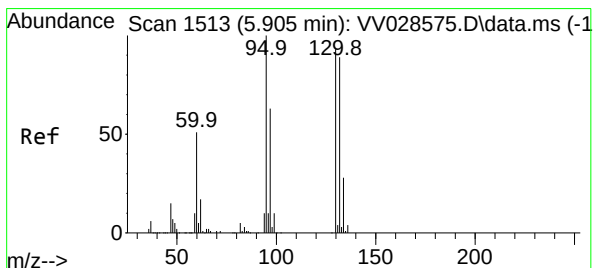
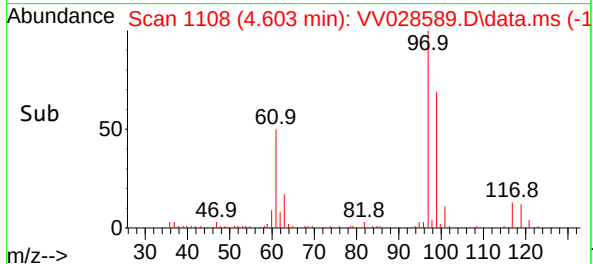
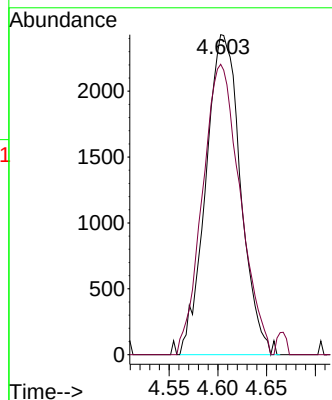
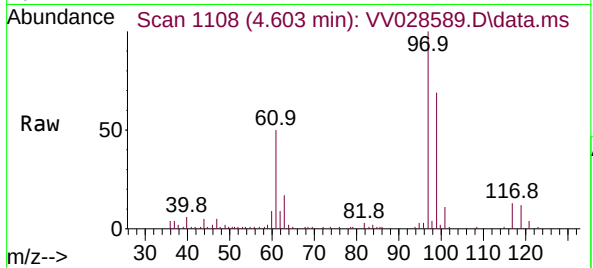




#31
Carbon tetrachloride
Concen: 0.295 ug/L
RT: 4.603 min Scan# 1175
Delta R.T. -0.215 min
Lab File: VV028589.D
Acq: 17 Oct 2022 15:21

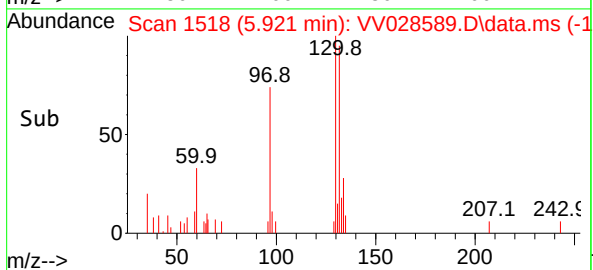
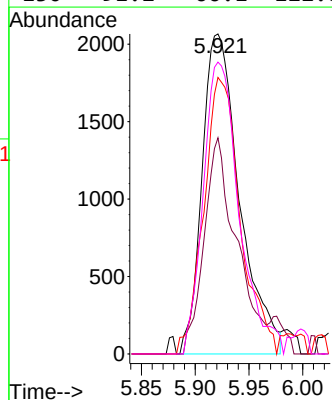
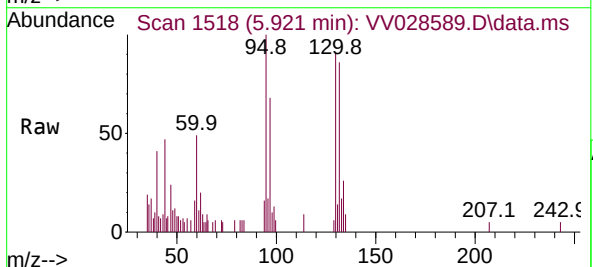
Instrument :
MSVOA_V
ClientSampleId :
BFZ06

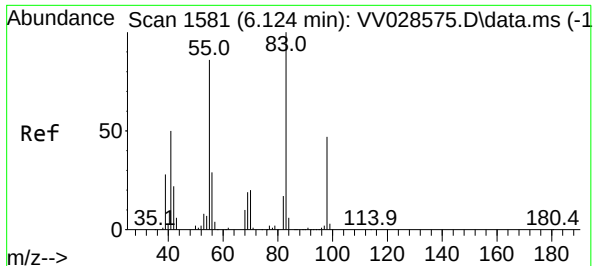
Tgt Ion:117 Resp: 6023
Ion Ratio Lower Upper
117 100
119 98.3 75.5 113.3



#34
Trichloroethene
Concen: 0.316 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.016 min
Lab File: VV028589.D
Acq: 17 Oct 2022 15:21

Tgt Ion: 95 Resp: 5012
Ion Ratio Lower Upper
95 100
97 67.6 46.2 85.8
132 86.4 65.1 120.9
130 91.2 66.1 122.8

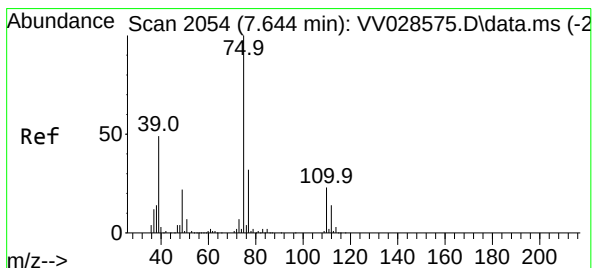
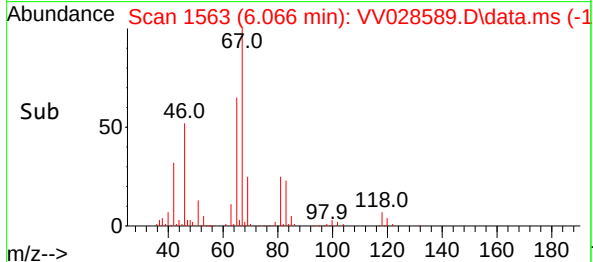
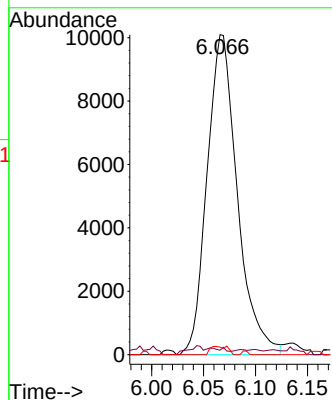
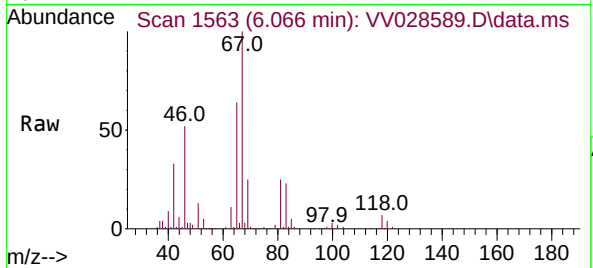




#35
Methylcyclohexane
Concen: 0.774 ug/L
RT: 6.066 min Scan# 1
Delta R.T. -0.058 min
Lab File: VV028589.D
Acq: 17 Oct 2022 15:21

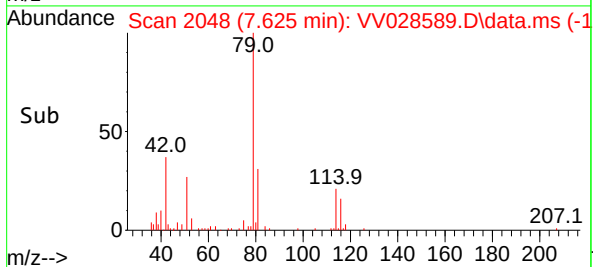
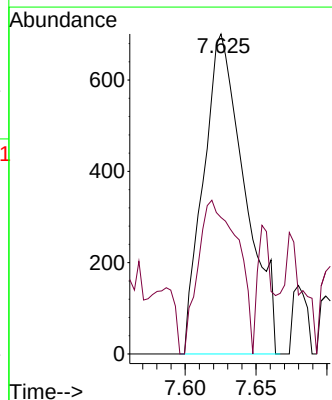
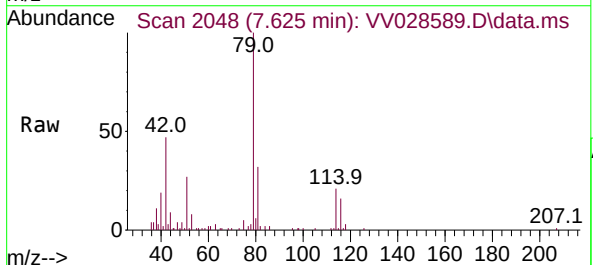
Instrument :
MSVOA_V
ClientSampleId :
BFZ06

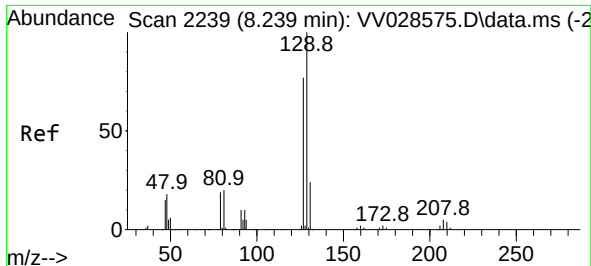
Tgt Ion: 83 Resp: 20444
Ion Ratio Lower Upper
83 100
55 0.2 65.0 97.6#
98 1.5 36.4 54.6#



#44
trans-1,3-Dichloropropene
Concen: 0.082 ug/L
RT: 7.625 min Scan# 2048
Delta R.T. -0.019 min
Lab File: VV028589.D
Acq: 17 Oct 2022 15:21

Tgt Ion: 75 Resp: 1422
Ion Ratio Lower Upper
75 100
77 42.7 21.7 40.3#





#49

Dibromochloromethane

Concen: 0.035 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. -0.270 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

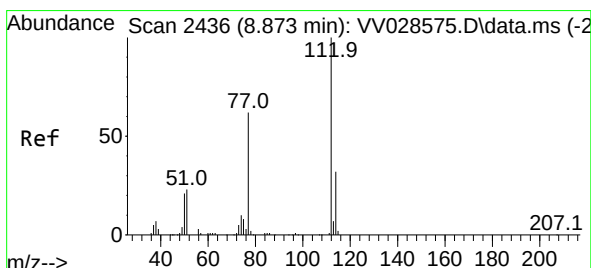
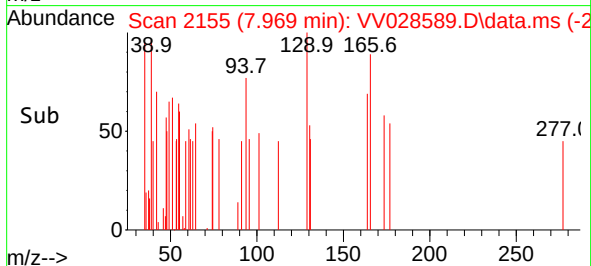
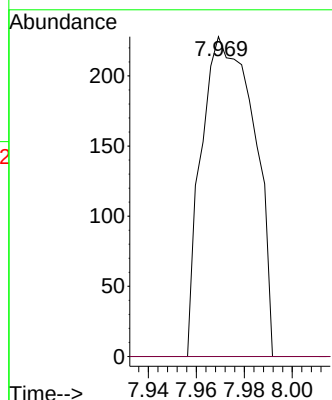
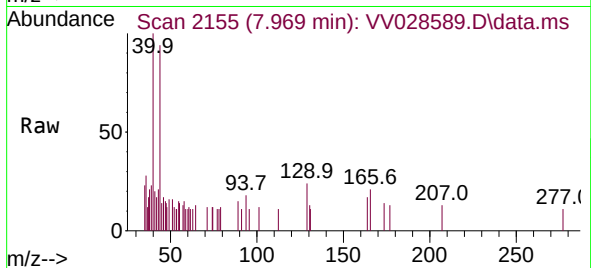
BFZ06

Tgt Ion:129 Resp: 347

Ion Ratio Lower Upper

129 100

127 0.0 53.8 100.0#



#51

Chlorobenzene

Concen: 0.446 ug/L

RT: 8.879 min Scan# 2438

Delta R.T. 0.006 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

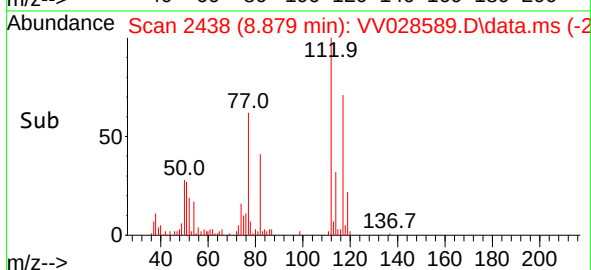
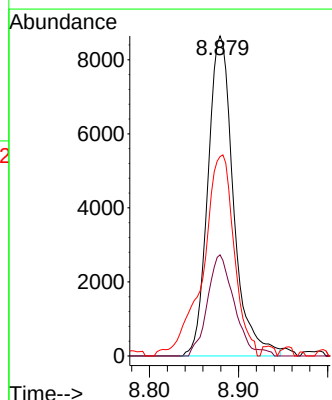
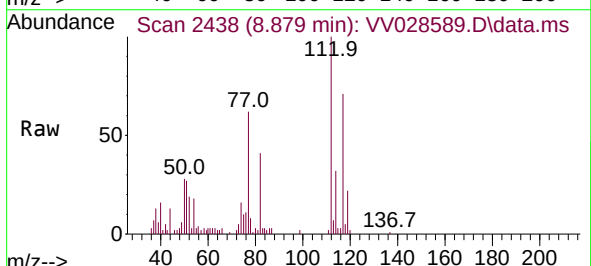
Tgt Ion:112 Resp: 17234

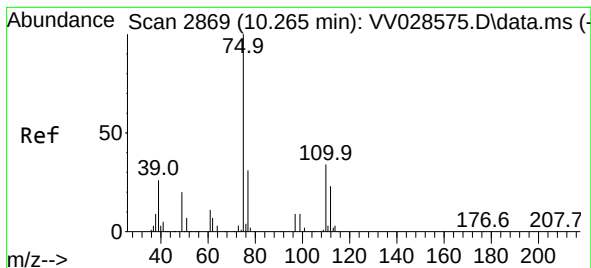
Ion Ratio Lower Upper

112 100

114 31.6 22.4 41.6

77 62.3 50.2 75.2





#61

1,2,3-Trichloropropane

Concen: 0.460 ug/L

RT: 11.178 min Scan# 3153

Delta R.T. 0.913 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

BFZ06

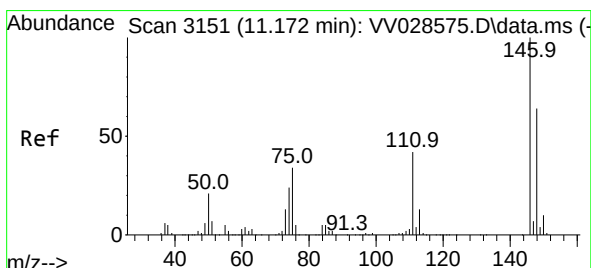
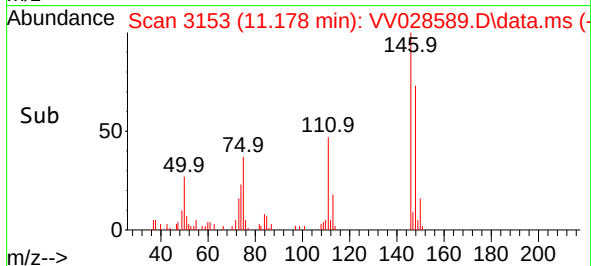
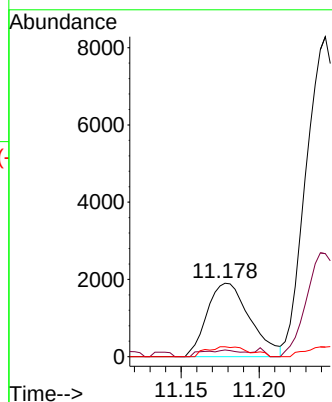
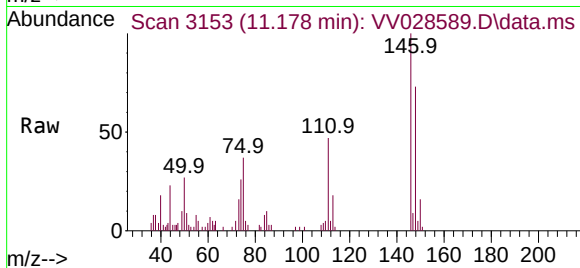
Tgt Ion: 75 Resp: 3621

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

110 13.4 28.3 42.5#



#64

1,3-Dichlorobenzene

Concen: 0.360 ug/L

RT: 11.181 min Scan# 3154

Delta R.T. 0.010 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

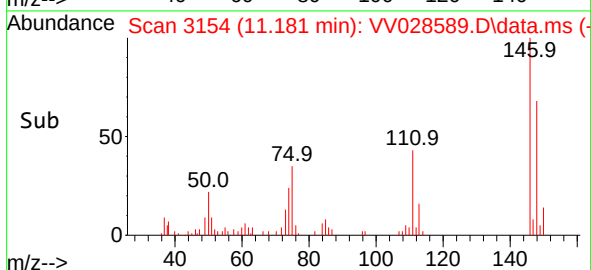
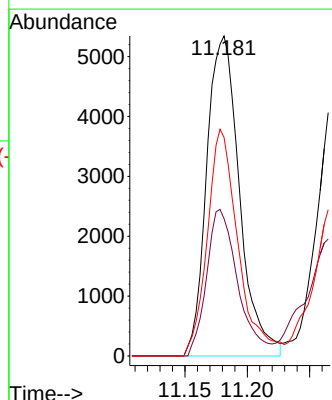
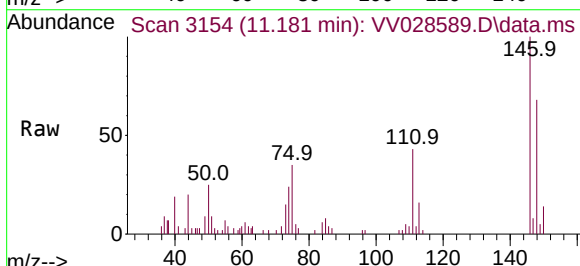
Tgt Ion: 146 Resp: 9786

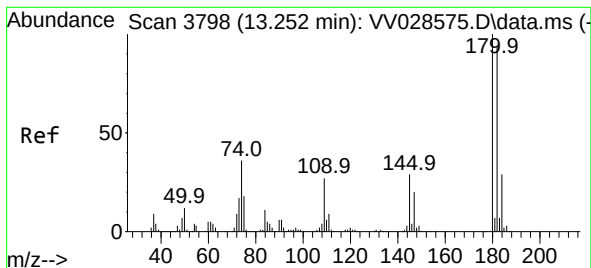
Ion Ratio Lower Upper

146 100

111 42.9 28.5 52.9

148 68.3 45.1 83.9





#70

1,2,4-trichlorobenzene

Concen: 1.004 ug/L

RT: 13.255 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

BFZ06

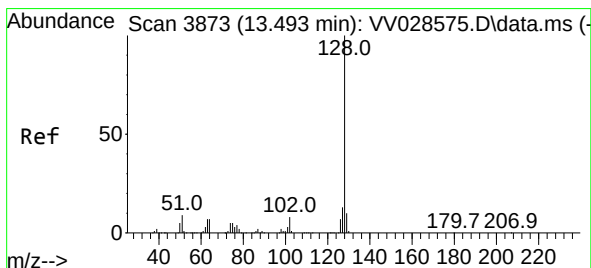
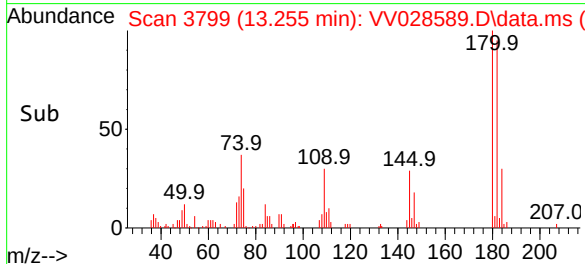
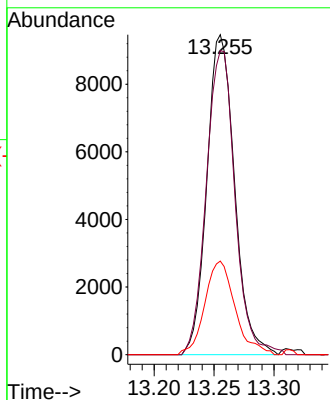
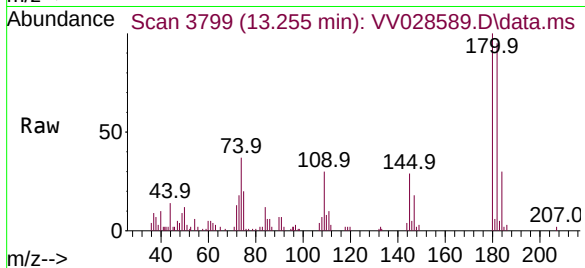
Tgt Ion:180 Resp: 15190

Ion Ratio Lower Upper

180 100

182 98.5 74.2 111.2

145 31.9 25.3 37.9



#71

Naphthalene

Concen: 0.158 ug/L

RT: 13.503 min Scan# 3876

Delta R.T. 0.010 min

Lab File: VV028589.D

Acq: 17 Oct 2022 15:21

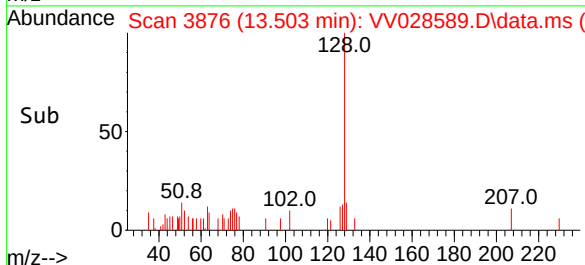
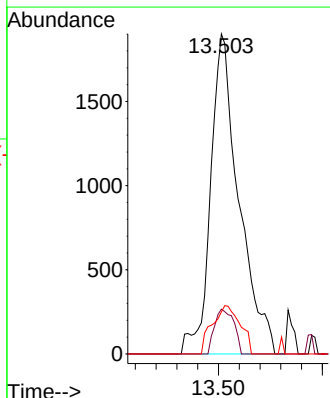
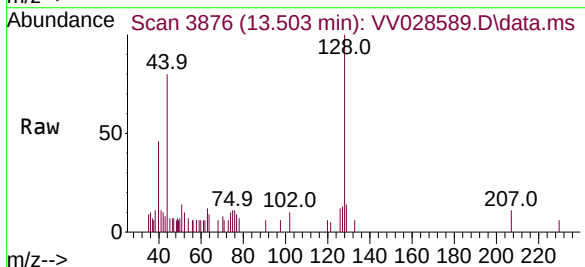
Tgt Ion:128 Resp: 3587

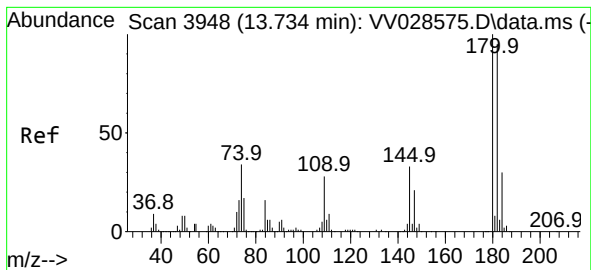
Ion Ratio Lower Upper

128 100

129 9.5 9.0 13.6

127 15.0 10.1 15.1





#72

1,2,3-Trichlorobenzene

Concen: 0.685 ug/L

RT: 13.734 min Scan# 3948

Delta R.T. -0.000 min

Lab File: VV028589.D

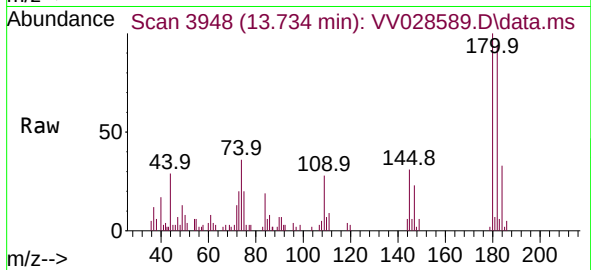
Acq: 17 Oct 2022 15:21

Instrument :

MSVOA_V

ClientSampleId :

BFZ06



Tgt Ion:180 Resp: 8544

Ion Ratio Lower Upper

180 100

182 97.8 76.3 114.5

145 32.5 25.8 38.8

