

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW100423\
 Data File : VW032221.D
 Acq On : 04 Oct 2023 11:27
 Operator : SY/MD
 Sample : 04708-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DCJU2

Quant Time: Oct 05 01:39:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 05 01:37:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	110211	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	105822	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	52844	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	42834	4.779	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.600%
7) Chloroethane-d5	1.532	69	33815	4.648	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.000%
11) 1,1-Dichloroethene-d2	2.060	65	16373	4.331	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.600%
20) 2-Butanone-d5	3.805	46	98439	43.414	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.820%
24) Chloroform-d	4.256	84	69144	4.373	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.400%
26) 1,2-Dichloroethane-d4	4.947	65	34731	4.637	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.800%
32) Benzene-d6	4.963	84	142239	4.568	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.400%
36) 1,2-Dichloropropane-d6	5.992	67	46496	4.507	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.200%
41) Toluene-d8	7.246	98	122619	4.306	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.200%
43) trans-1,3-Dichloroprop...	7.558	79	15509	4.242	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.800%
46) 2-Hexanone-d5	8.030	63	75690	44.004	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.000%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	31848	4.414	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.200%
66) 1,2-Dichlorobenzene-d4	11.564	152	47303	4.824	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	364504	30.868	ug/L	99
12) 1,1-Dichloroethene	2.069	96	129657	16.041	ug/L #	75
16) Methylene chloride	2.449	84	77379	7.343	ug/L	95
18) trans-1,2-Dichloroethene	2.696	96	65165	7.039	ug/L	99
22) cis-1,2-Dichloroethene	3.818	96	138634	13.907	ug/L	97
27) 1,2-Dichloroethane	5.043	62	136397	13.511	ug/L	99
29) 1,1,1-Trichloroethane	4.516	97	80028	5.562	ug/L	98
31) Carbon tetrachloride	4.741	117	42254	3.471	ug/L	98
33) Benzene	5.014	78	127670	3.427	ug/L	100
34) Trichloroethene	5.834	95	80793	7.944	ug/L	98
37) 1,2-Dichloropropane	6.095	63	67980	6.823	ug/L	99
42) Toluene	7.320	91	170726	4.299	ug/L	99
45) 1,1,2-Trichloroethane	7.773	97	34064	4.846	ug/L	100
47) Tetrachloroethene	7.908	164	111185	14.415	ug/L	100
51) Chlorobenzene	8.818	112	246293	9.632	ug/L	100
52) Ethylbenzene	8.950	91	382362	8.645	ug/L	99
53) m,p-Xylene	9.079	106	268465	16.367	ug/L	97
54) o-Xylene	9.480	106	65724	4.158	ug/L	97
55) Styrene	9.500	104	409755	15.351	ug/L	98

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Oct 05 01:37:52 2023
Response via : Initial Calibration

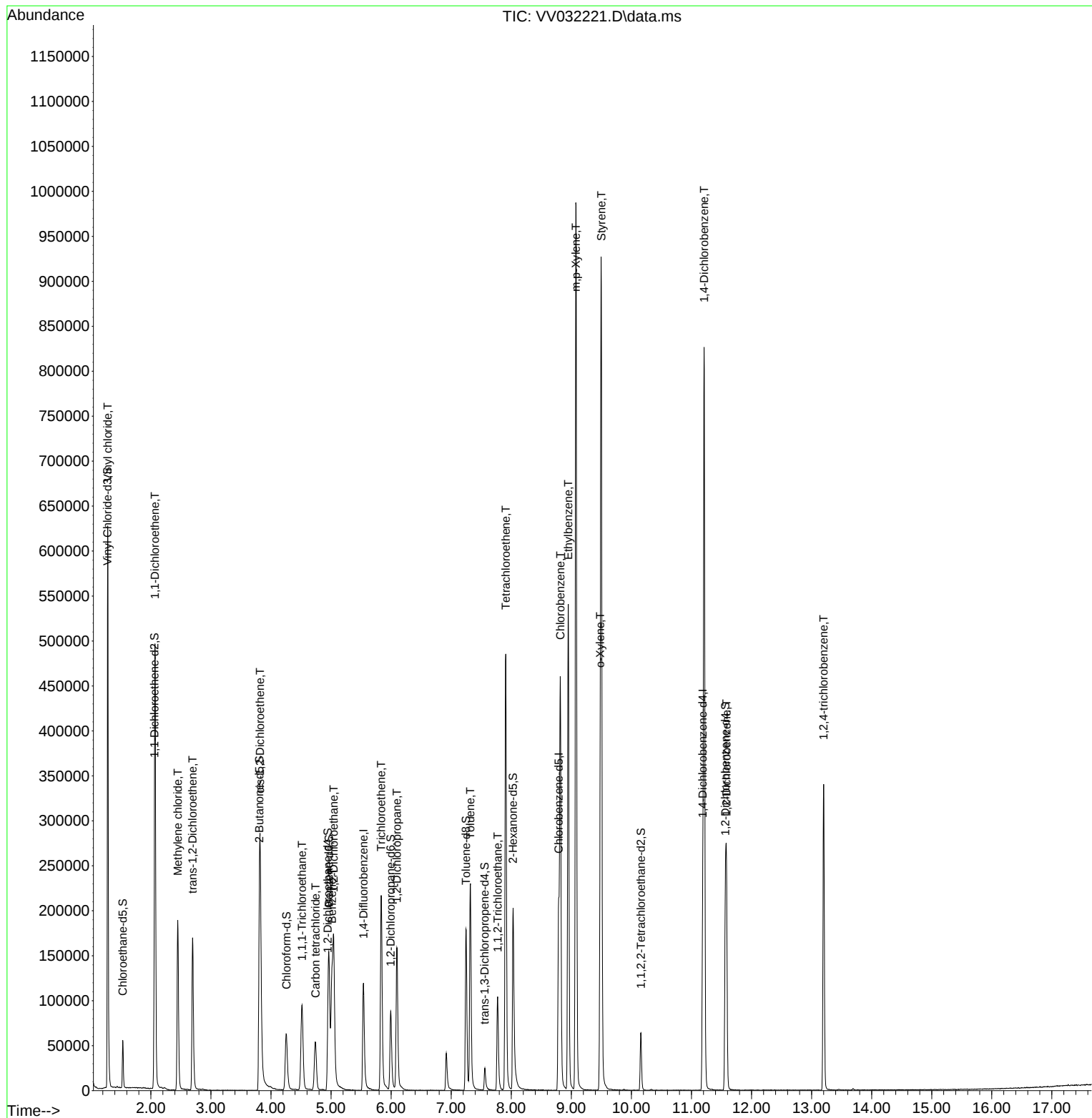
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.210	146	313650	15.935	ug/L	99
67) 1,2-Dichlorobenzene	11.583	146	91071	5.090	ug/L	100
70) 1,2,4-trichlorobenzene	13.201	180	100182	7.861	ug/L	99

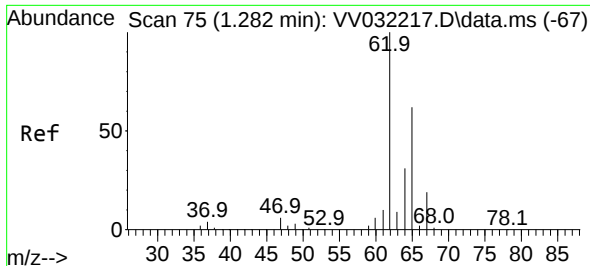
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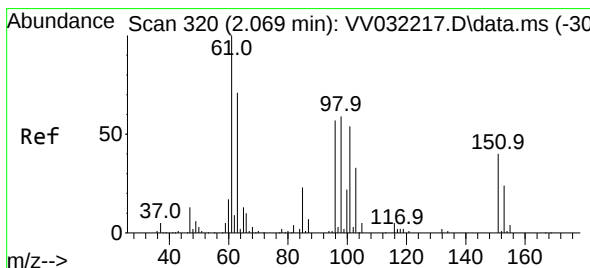
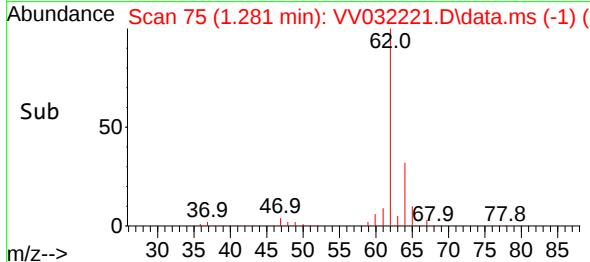
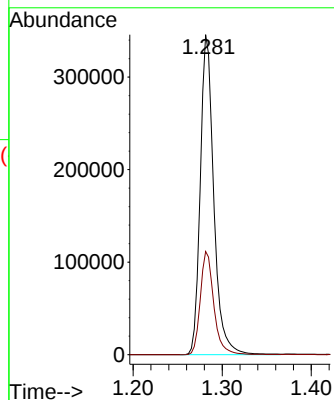
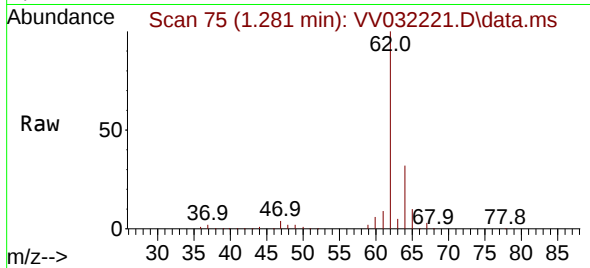




#5
 Vinyl chloride
 Concen: 30.868 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. -0.000 min
 Lab File: VV032221.D
 Acq: 04 Oct 2023 11:27

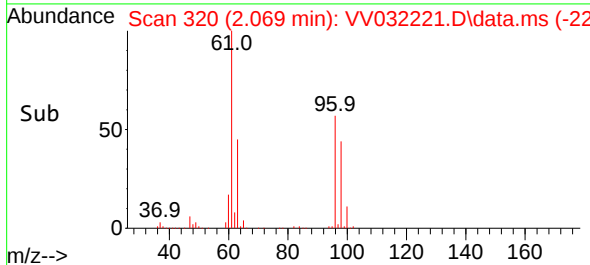
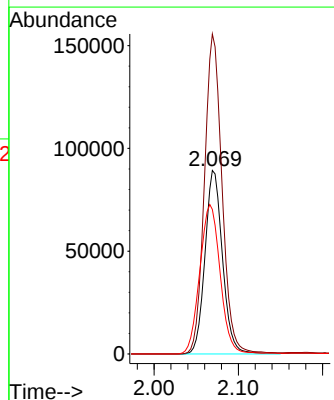
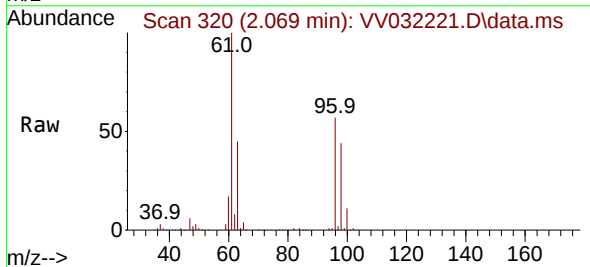
Instrument :
 MSVOA_V
 ClientSampleId :
 DCJU2

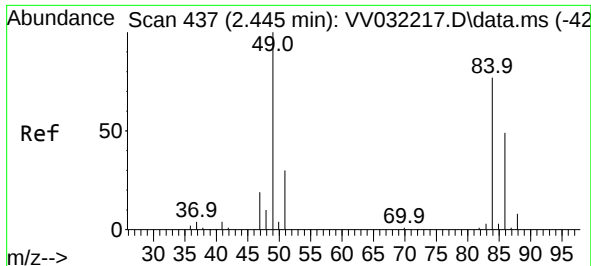
Tgt Ion: 62 Resp: 364504
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.1 42.9



#12
 1,1-Dichloroethene
 Concen: 16.041 ug/L
 RT: 2.069 min Scan# 320
 Delta R.T. -0.000 min
 Lab File: VV032221.D
 Acq: 04 Oct 2023 11:27

Tgt Ion: 96 Resp: 129657
 Ion Ratio Lower Upper
 96 100
 61 174.4 127.3 236.3
 63 78.7 98.3 182.7#

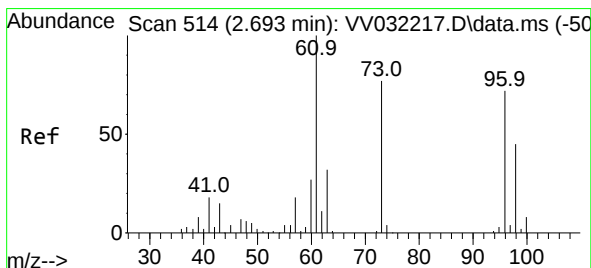
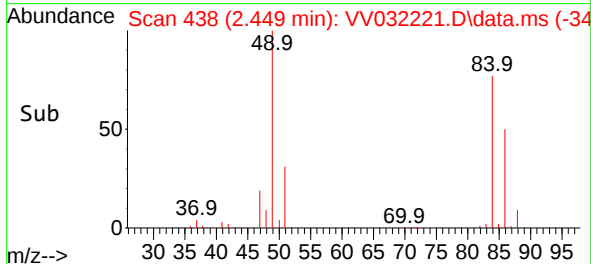
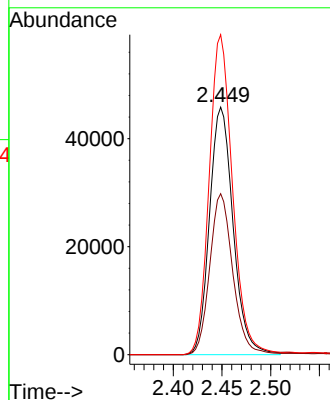
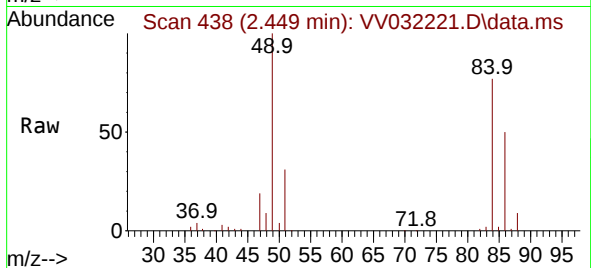




#16
Methylene chloride
Concen: 7.343 ug/L
RT: 2.449 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

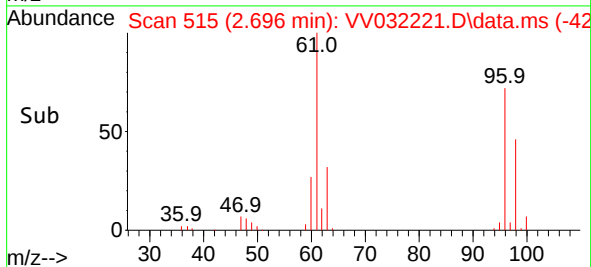
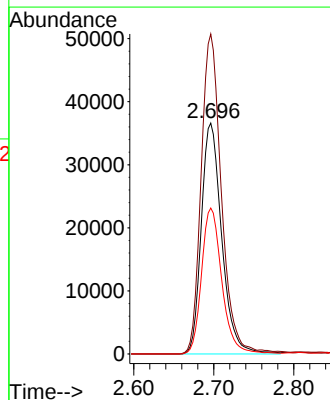
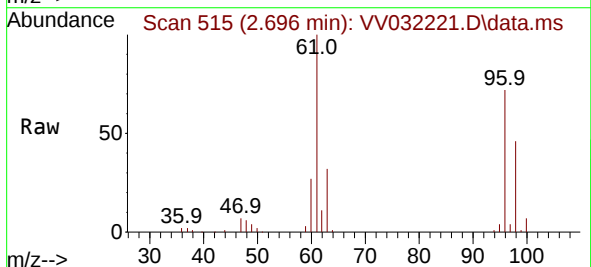
Instrument :
MSVOA_V
ClientSampleId :
DCJU2

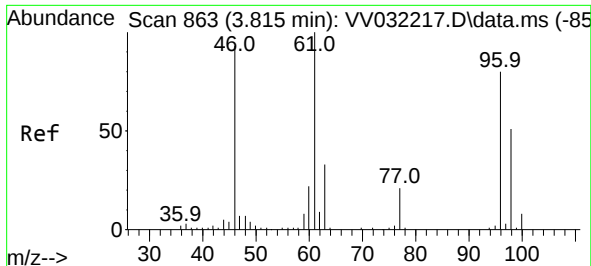
Tgt Ion: 84 Resp: 77379
Ion Ratio Lower Upper
84 100
86 65.0 43.2 80.2
49 129.2 86.3 160.3



#18
trans-1,2-Dichloroethene
Concen: 7.039 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

Tgt Ion: 96 Resp: 65165
Ion Ratio Lower Upper
96 100
61 138.6 96.9 180.1
98 63.2 45.3 84.1



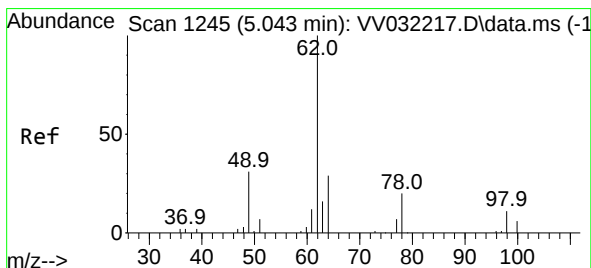
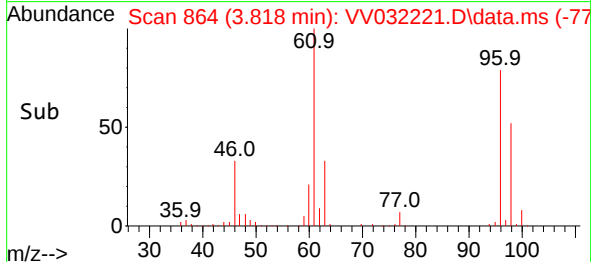
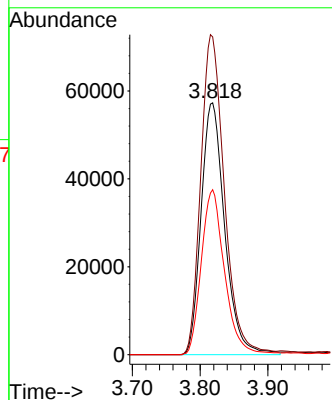
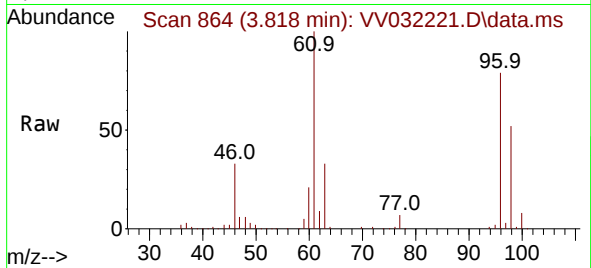


#22
 cis-1,2-Dichloroethene
 Concen: 13.907 ug/L
 RT: 3.818 min Scan# 864
 Delta R.T. 0.003 min
 Lab File: VV032221.D
 Acq: 04 Oct 2023 11:27

Instrument :
 MSVOA_V
 ClientSampleId :
 DCJU2

Tgt Ion: 96 Resp: 138634

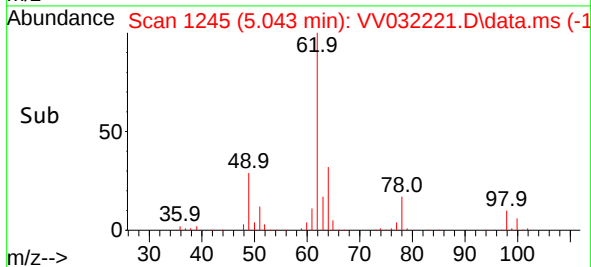
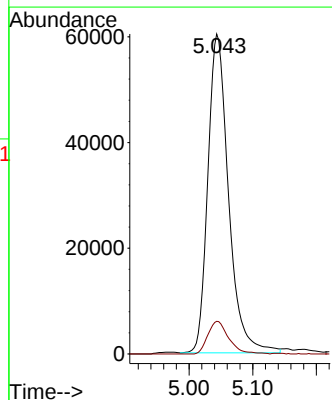
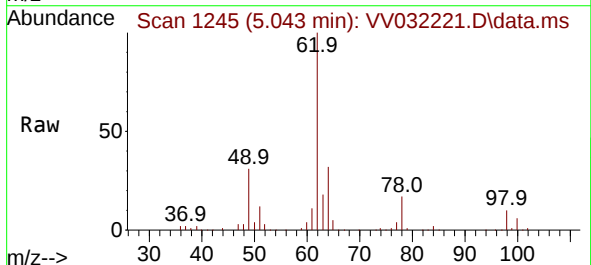
Ion	Ratio	Lower	Upper
96	100		
61	126.2	85.8	159.4
98	65.5	44.0	81.6

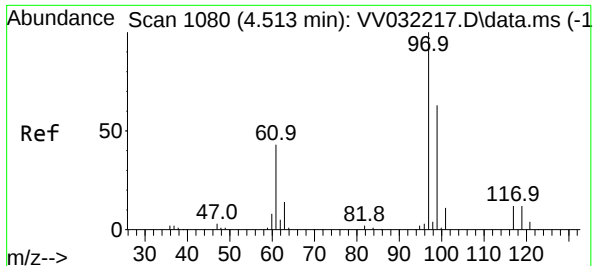


#27
 1,2-Dichloroethane
 Concen: 13.511 ug/L
 RT: 5.043 min Scan# 1245
 Delta R.T. -0.000 min
 Lab File: VV032221.D
 Acq: 04 Oct 2023 11:27

Tgt Ion: 62 Resp: 136397

Ion	Ratio	Lower	Upper
62	100		
98	10.2	7.8	11.8





#29

1,1,1-Trichloroethane

Concen: 5.562 ug/L

RT: 4.516 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VV032221.D

Acq: 04 Oct 2023 11:27

Instrument :

MSVOA_V

ClientSampleId :

DCJU2

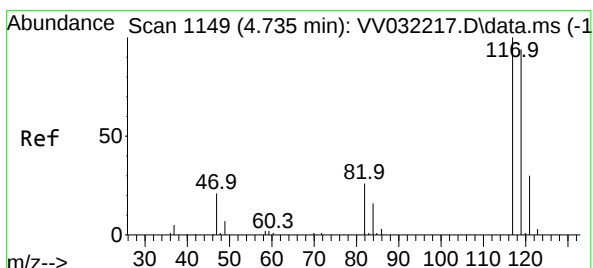
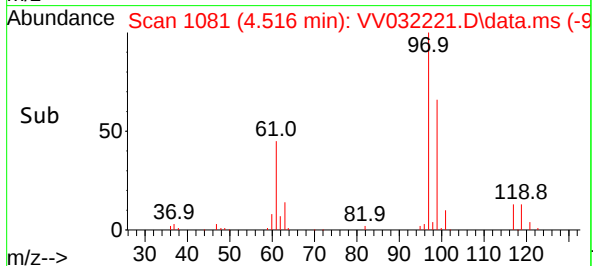
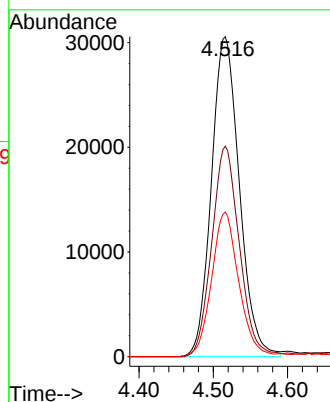
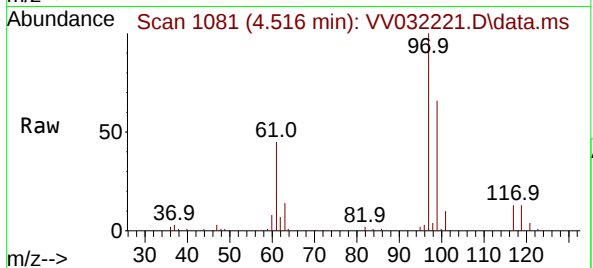
Tgt Ion: 97 Resp: 80028

Ion Ratio Lower Upper

97 100

99 64.9 50.1 75.1

61 43.9 35.1 52.7



#31

Carbon tetrachloride

Concen: 3.471 ug/L

RT: 4.741 min Scan# 1151

Delta R.T. 0.006 min

Lab File: VV032221.D

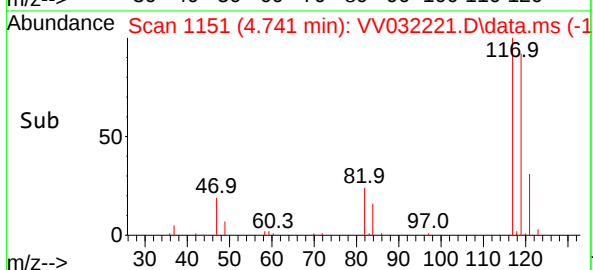
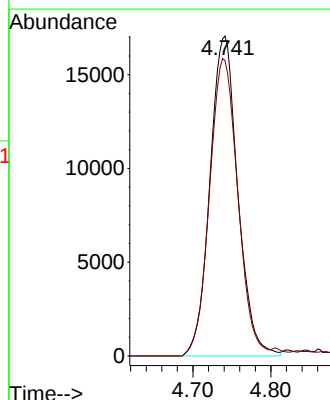
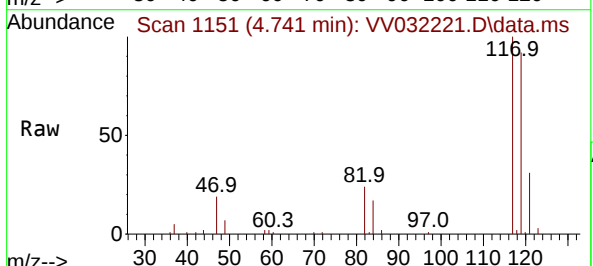
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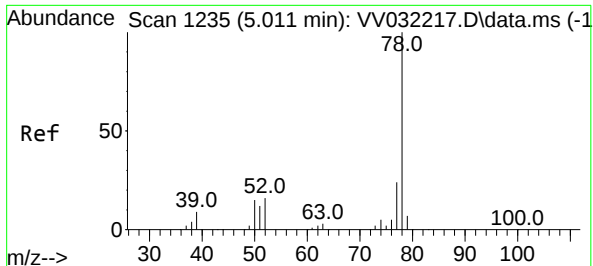
Tgt Ion: 117 Resp: 42254

Ion Ratio Lower Upper

117 100

119 94.6 77.6 116.4

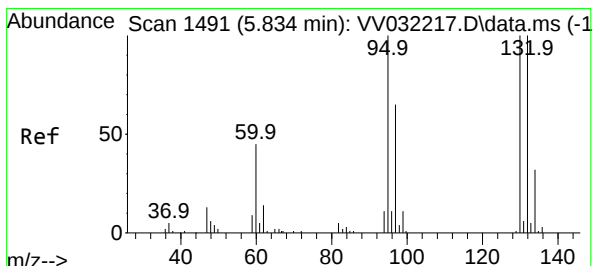
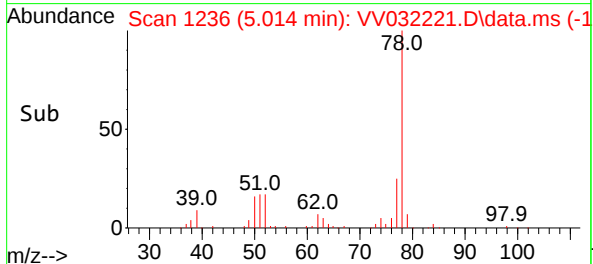
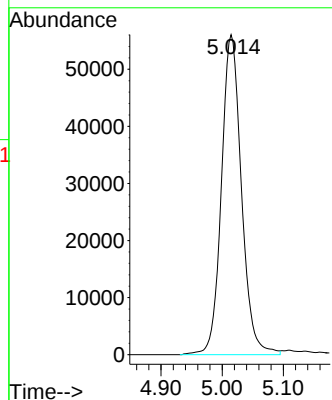
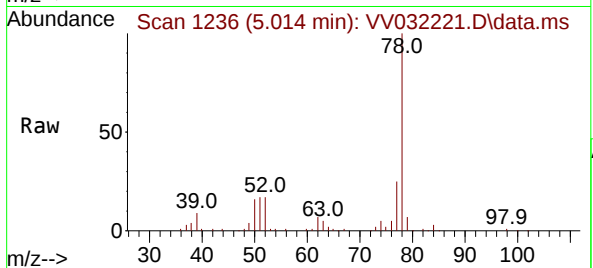




#33
Benzene
Concen: 3.427 ug/L
RT: 5.014 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

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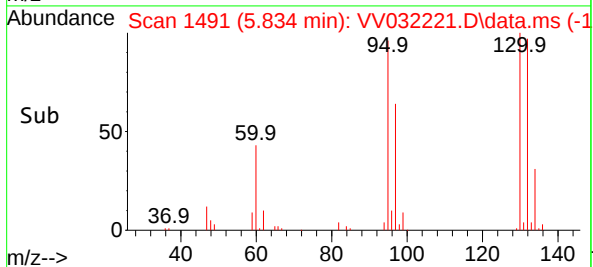
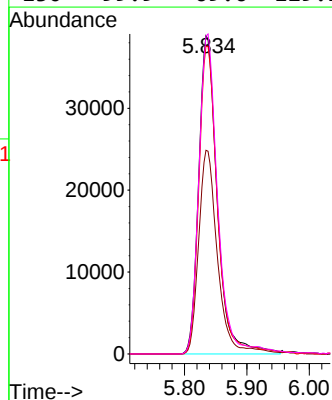
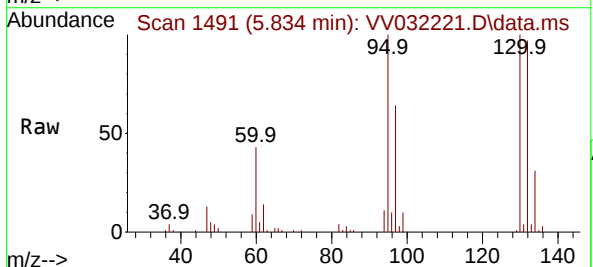
Tgt Ion: 78 Resp: 127670

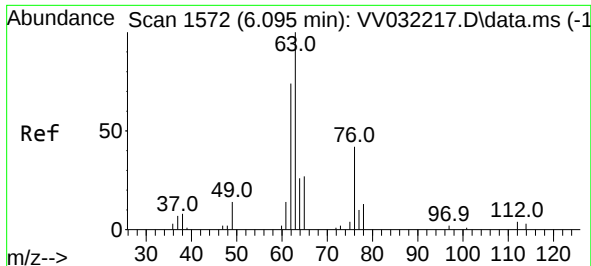


#34
Trichloroethene
Concen: 7.944 ug/L
RT: 5.834 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

Tgt Ion: 95 Resp: 80793

Ion	Ratio	Lower	Upper
95	100		
97	64.0	45.7	84.9
132	96.7	70.3	130.5
130	99.9	69.6	129.2





#37

1,2-Dichloropropane

Concen: 6.823 ug/L

RT: 6.095 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV032221.D

Acq: 04 Oct 2023 11:27

Instrument :

MSVOA_V

ClientSampleId :

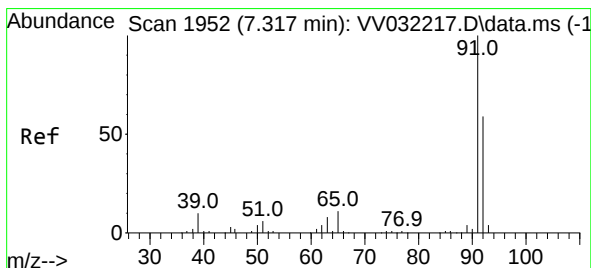
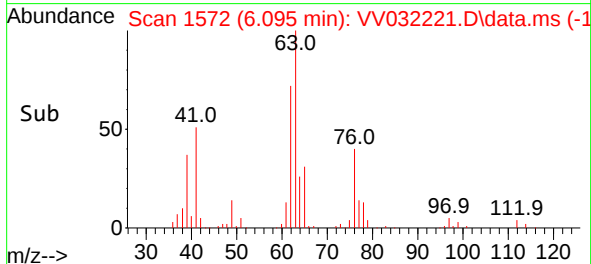
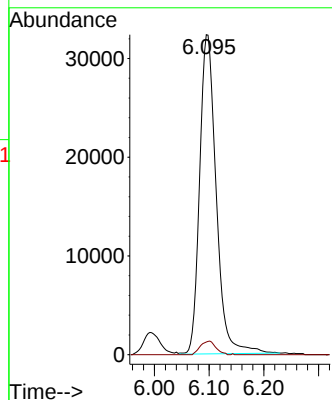
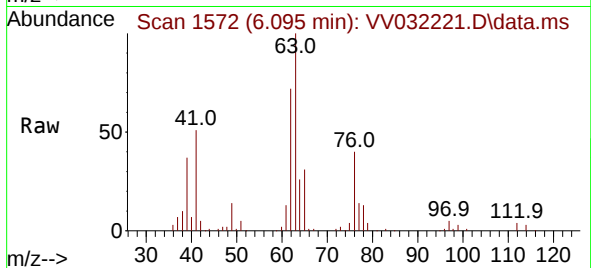
DCJU2

Tgt Ion: 63 Resp: 67980

Ion Ratio Lower Upper

63 100

112 4.0 3.4 5.2



#42

Toluene

Concen: 4.299 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.003 min

Lab File: VV032221.D

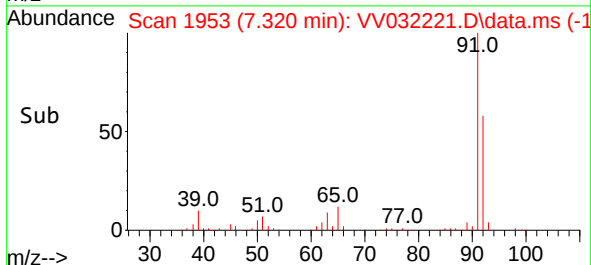
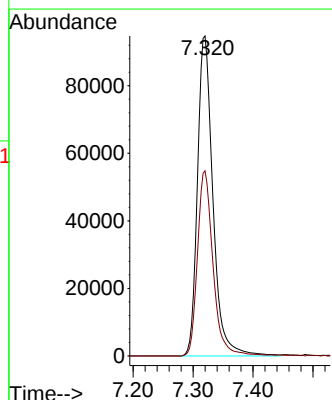
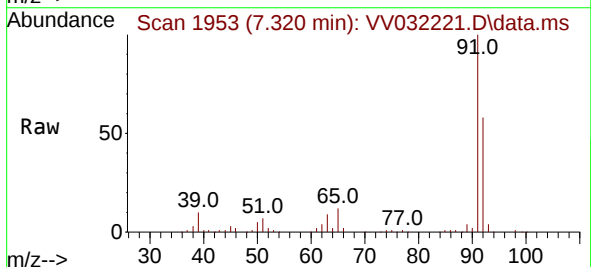
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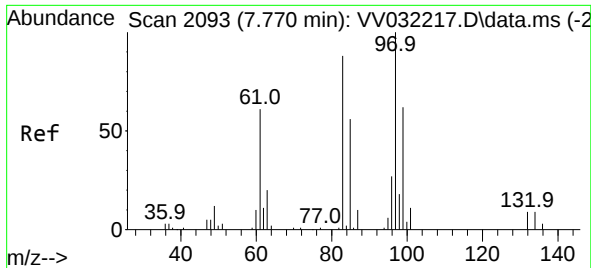
Tgt Ion: 91 Resp: 170726

Ion Ratio Lower Upper

91 100

92 57.8 40.8 75.8



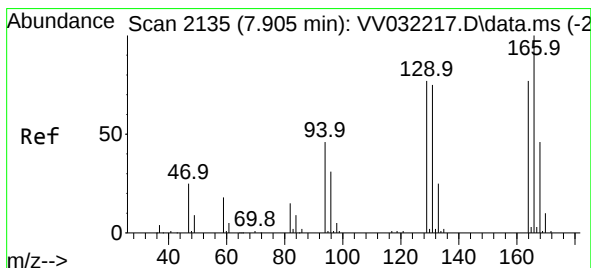
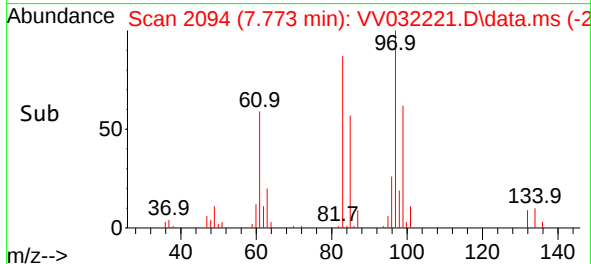
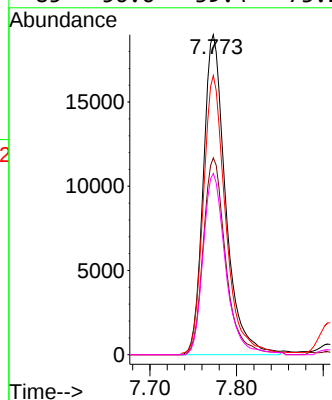
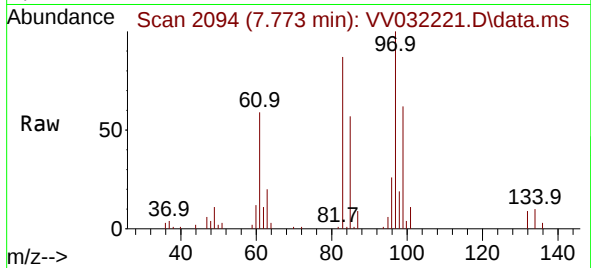


#45
1,1,2-Trichloroethane
Concen: 4.846 ug/L
RT: 7.773 min Scan# 2093
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

Instrument :
MSVOA_V
ClientSampleId :
DCJU2

Tgt Ion: 97 Resp: 34064

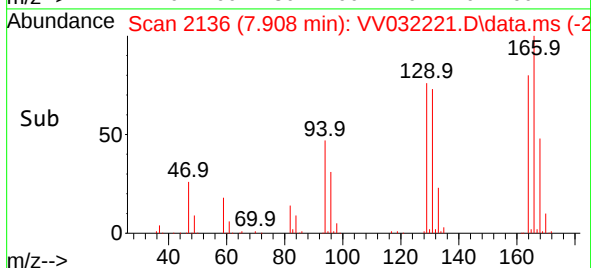
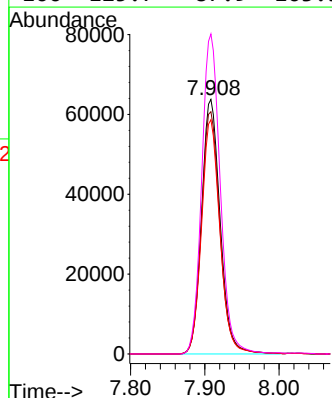
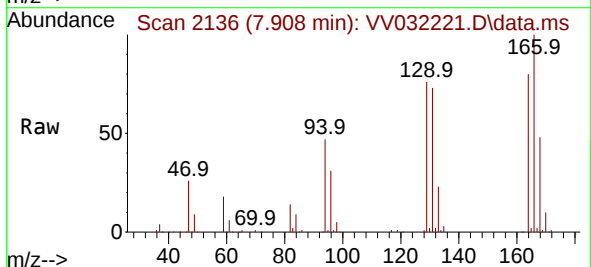
Ion	Ratio	Lower	Upper
97	100		
99	61.5	42.8	79.4
83	87.2	60.9	113.1
85	56.6	39.4	73.2

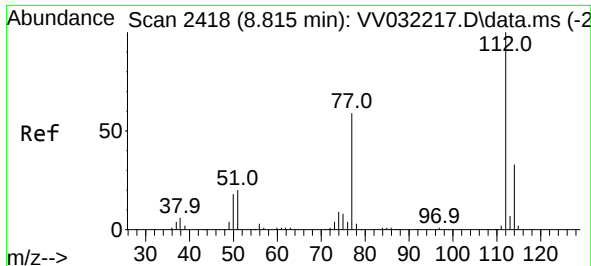


#47
Tetrachloroethene
Concen: 14.415 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

Tgt Ion: 164 Resp: 111185

Ion	Ratio	Lower	Upper
164	100		
129	95.2	66.4	123.4
131	92.0	63.7	118.3
166	125.7	87.9	163.3

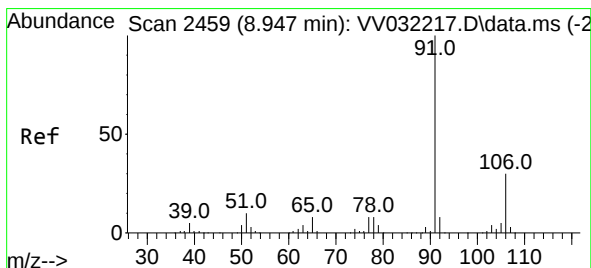
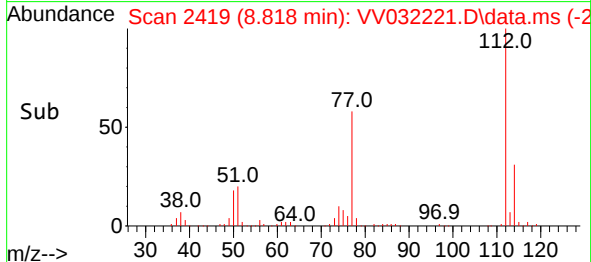
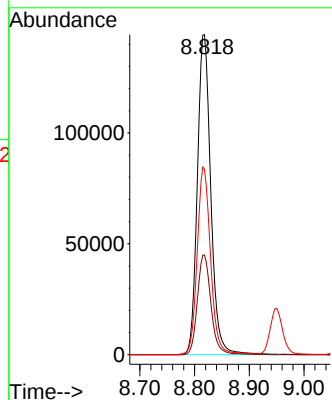
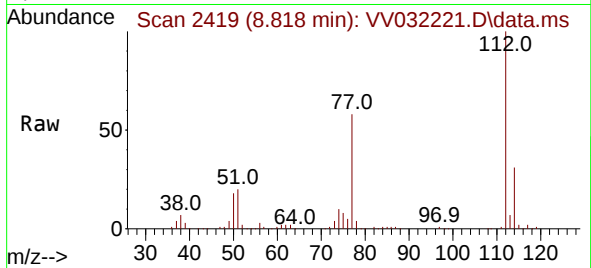




#51
Chlorobenzene
Concen: 9.632 ug/L
RT: 8.818 min Scan# 2418
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

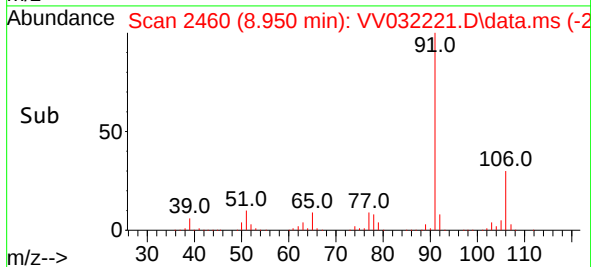
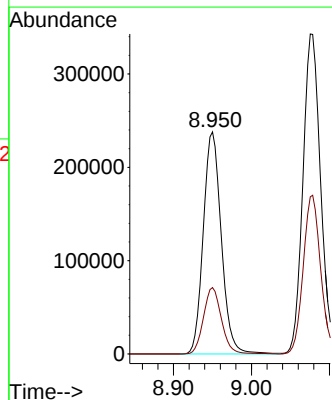
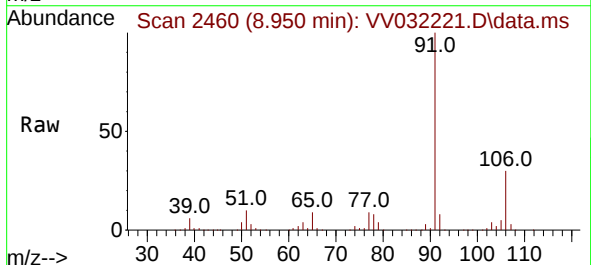
Instrument :
MSVOA_V
ClientSampleId :
DCJU2

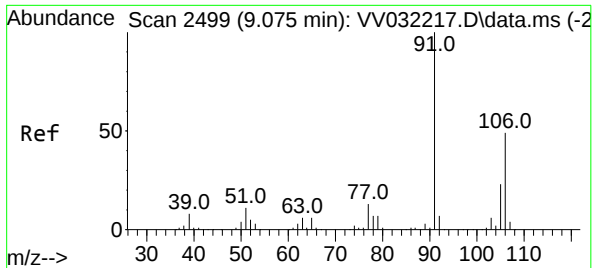
Tgt Ion:112 Resp: 246293
Ion Ratio Lower Upper
112 100
114 31.2 22.1 41.1
77 57.8 46.1 69.1



#52
Ethylbenzene
Concen: 8.645 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

Tgt Ion: 91 Resp: 382362
Ion Ratio Lower Upper
91 100
106 29.9 21.3 39.5

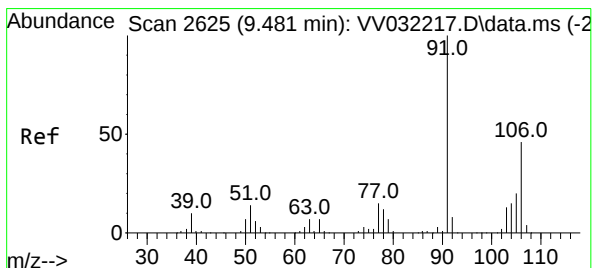
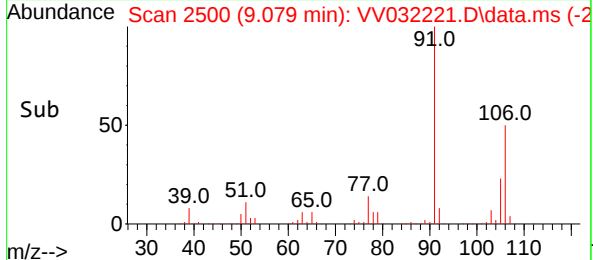
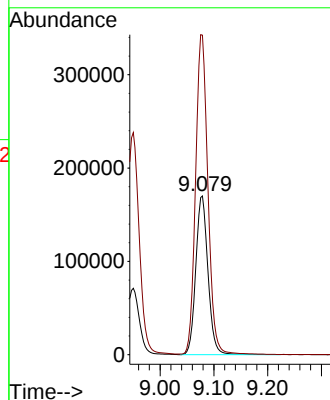
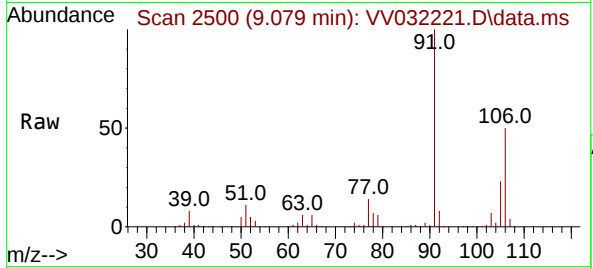




#53
m,p-Xylene
Concen: 16.367 ug/L
RT: 9.079 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

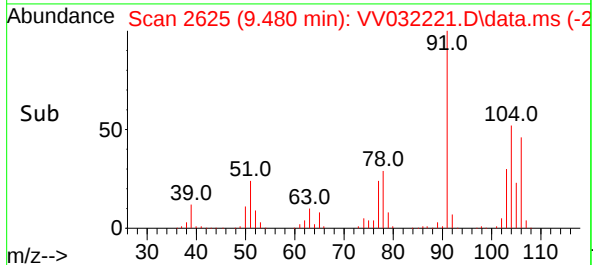
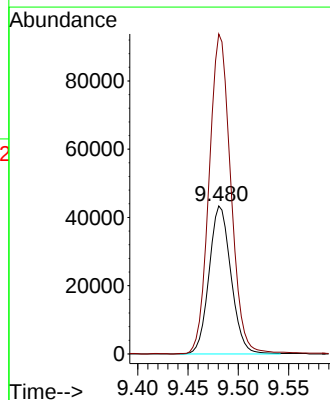
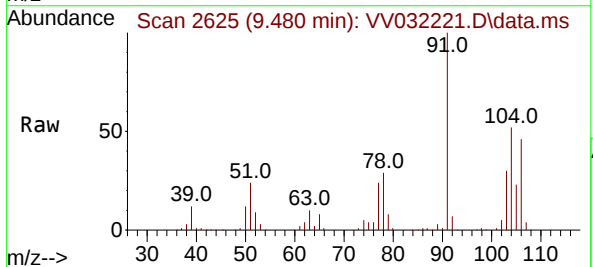
Instrument :
MSVOA_V
ClientSampleId :
DCJU2

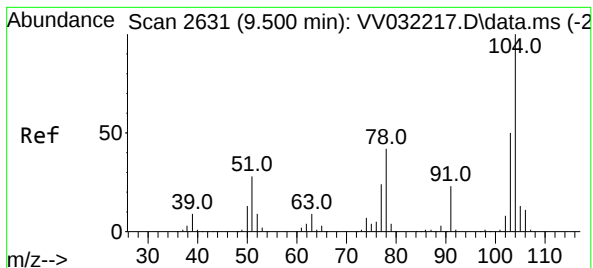
Tgt Ion:106 Resp: 268465
Ion Ratio Lower Upper
106 100
91 201.3 144.5 268.3



#54
o-Xylene
Concen: 4.158 ug/L
RT: 9.480 min Scan# 2625
Delta R.T. -0.000 min
Lab File: VV032221.D
Acq: 04 Oct 2023 11:27

Tgt Ion:106 Resp: 65724
Ion Ratio Lower Upper
106 100
91 216.1 154.8 287.4





#55

Styrene

Concen: 15.351 ug/L

RT: 9.500 min Scan# 2

Delta R.T. -0.000 min

Lab File: VV032221.D

Acq: 04 Oct 2023 11:27

Instrument :

MSVOA_V

ClientSampleId :

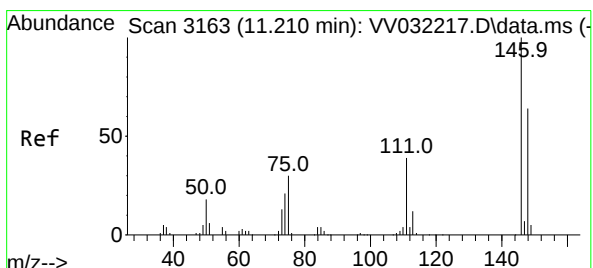
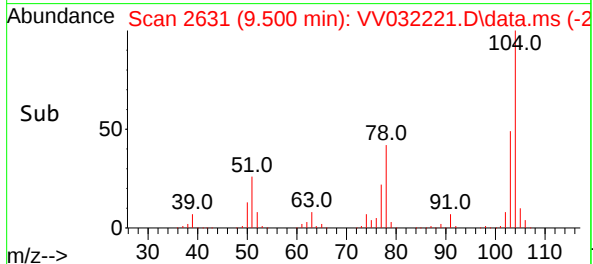
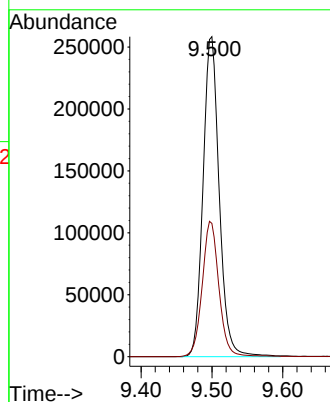
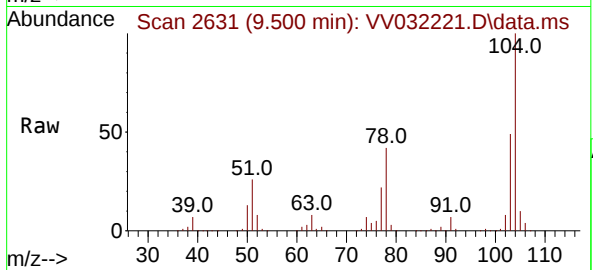
DCJU2

Tgt Ion:104 Resp: 409755

Ion Ratio Lower Upper

104 100

78 41.6 29.9 55.5



#65

1,4-Dichlorobenzene

Concen: 15.935 ug/L

RT: 11.210 min Scan# 3163

Delta R.T. -0.000 min

Lab File: VV032221.D

Acq: 04 Oct 2023 11:27

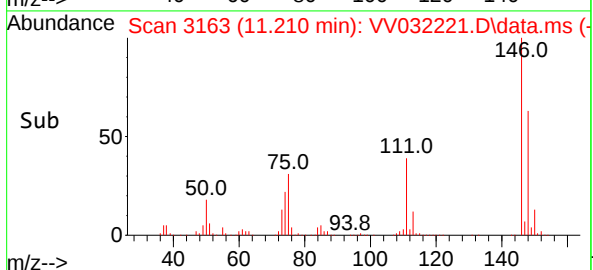
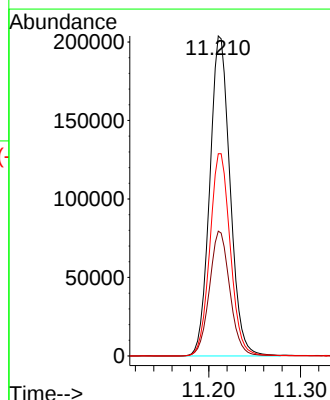
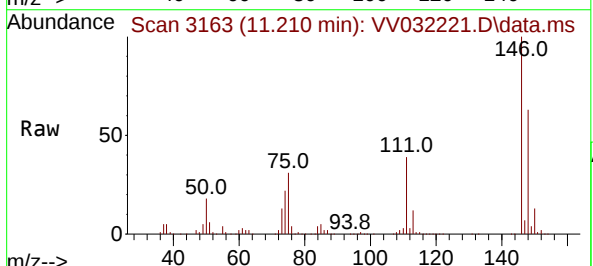
Tgt Ion:146 Resp: 313650

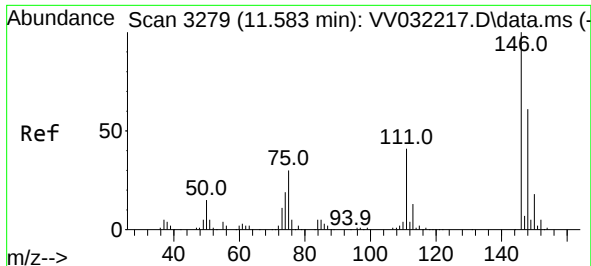
Ion Ratio Lower Upper

146 100

111 39.0 26.9 49.9

148 63.2 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 5.090 ug/L

RT: 11.583 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV032221.D

Acq: 04 Oct 2023 11:27

Instrument :

MSVOA_V

ClientSampleId :

DCJU2

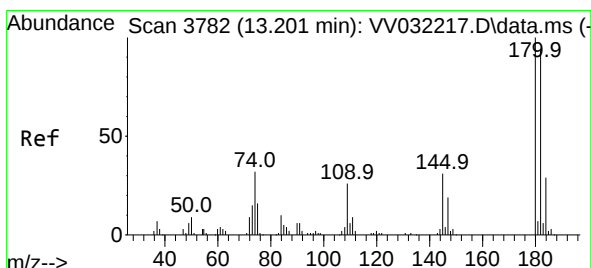
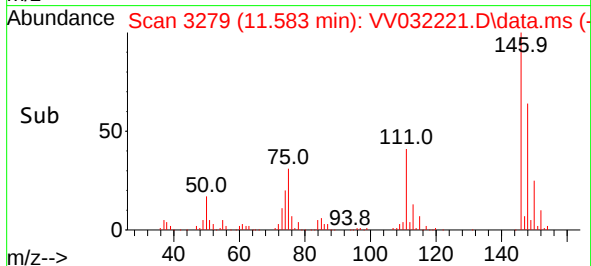
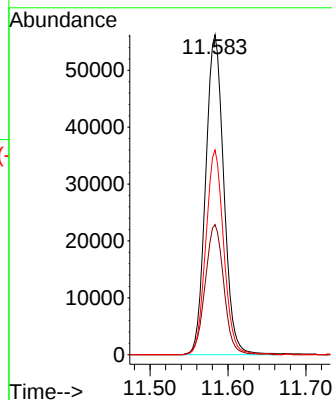
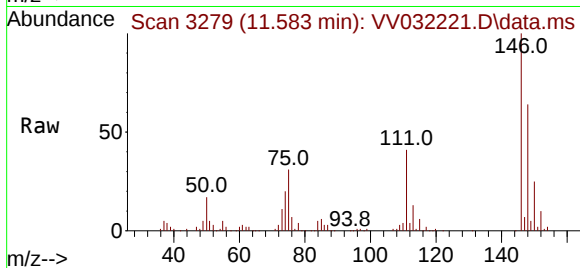
Tgt Ion:146 Resp: 91071

Ion Ratio Lower Upper

146 100

111 40.7 32.8 49.2

148 63.9 51.0 76.4



#70

1,2,4-trichlorobenzene

Concen: 7.861 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. -0.000 min

Lab File: VV032221.D

Acq: 04 Oct 2023 11:27

Tgt Ion:180 Resp: 100182

Ion Ratio Lower Upper

180 100

182 94.2 76.5 114.7

145 30.5 24.3 36.5

