

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV081621\
 Data File : VV021790.D
 Acq On : 16 Aug 2021 14:53
 Operator : SY/MD
 Sample : M3395-13
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 17 04:29:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM081621WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 17 04:08:59 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	435565	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	408655	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.252	152	215533	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	169542	49.791	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.580%
7) Chloroethane-d5	1.545	69	123415	48.029	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.060%
11) 1,1-Dichloroethene-d2	2.101	63	254553	46.964	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.920%
21) 2-Butanone-d5	3.873	46	226511	106.958	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.960%
24) Chloroform-d	4.346	84	283413	48.041	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.080%
26) 1,2-Dichloroethane-d4	5.030	65	173465	51.118	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.240%
32) Benzene-d6	5.047	84	607901	51.730	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.460%
36) 1,2-Dichloropropane-d6	6.069	67	185025	50.560	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.120%
41) Toluene-d8	7.317	98	561473	51.693	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.380%
43) trans-1,3-Dichloroprop...	7.622	79	91946	51.052	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.100%
47) 2-Hexanone-d5	8.088	63	130931	109.163	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.160%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	235305	51.887	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.780%
66) 1,2-Dichlorobenzene-d4	11.625	152	226211	50.714	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.420%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	248495	72.112	ug/L	100
8) Chloroethane	1.564	64	233261	113.277	ug/L	99
9) Trichlorofluoromethane	2.108	101	157227	33.301	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	160518	59.381	ug/L	99
12) 1,1-Dichloroethene	2.111	96	106322	41.294	ug/L	96
16) Methylene chloride	2.503	84	5801	1.620	ug/L	86
17) trans-1,2-Dichloroethene	2.754	96	270142	89.413	ug/L	98
22) 2-Butanone	3.992	43	8957	3.530	ug/L #	72
25) Chloroform	4.378	83	3642	0.629	ug/L	97
27) 1,2-Dichloroethane	5.130	62	116580	28.592	ug/L	99
29) Cyclohexane	4.674	56	271735	53.991	ug/L	99
30) 1,1,1-Trichloroethane	4.606	97	233369	45.637	ug/L	99
31) Carbon tetrachloride	4.825	117	123207	27.845	ug/L	99
33) Benzene	5.098	78	478853	38.078	ug/L	100
34) Trichloroethene	5.915	95	61543	17.030	ug/L	99
35) Methylcyclohexane	6.069	83	44198	8.383	ug/L #	21
38) Bromodichloromethane	6.510	83	312031	74.348	ug/L	99
40) 4-Methyl-2-pentanone	7.227	43	435825	99.499	ug/L	100
44) trans-1,3-Dichloropropene	7.844	75	7533	1.585	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Aug 17 04:08:59 2021
Response via : Initial Calibration

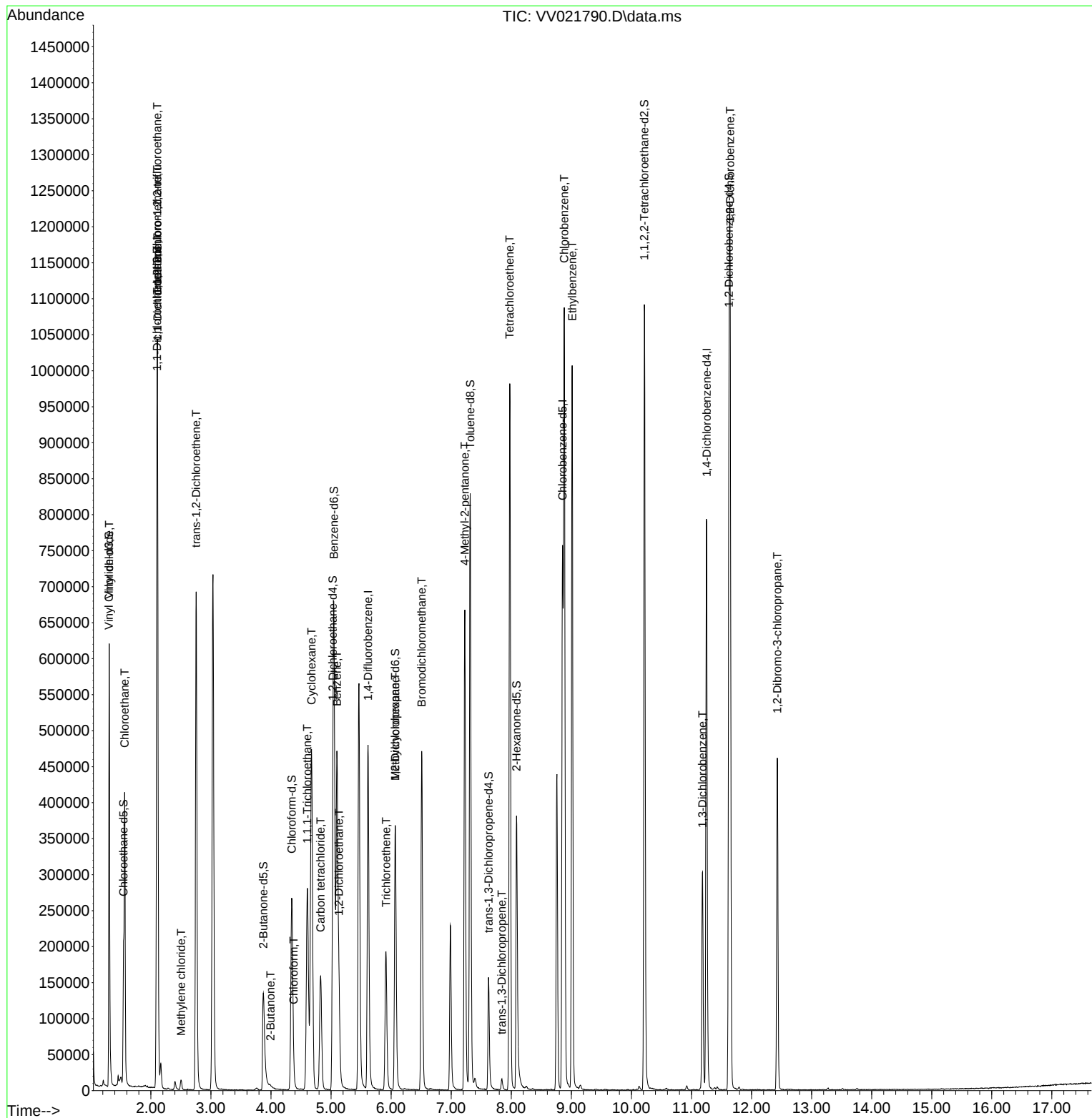
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	7.976	164	228974	85.257	ug/L	100
51) Chlorobenzene	8.882	112	588358	67.093	ug/L	99
52) Ethylbenzene	9.014	91	705234	49.217	ug/L	99
64) 1,3-Dichlorobenzene	11.185	146	129419	18.494	ug/L	99
67) 1,2-Dichlorobenzene	11.644	146	410448	58.144	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.429	75	103808	107.194	ug/L	97

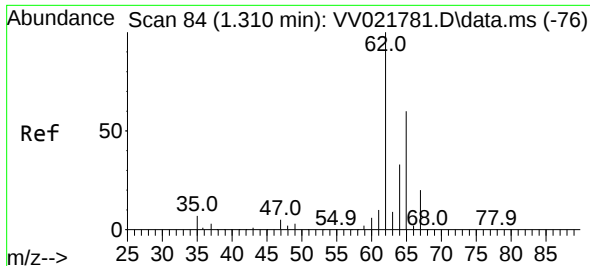
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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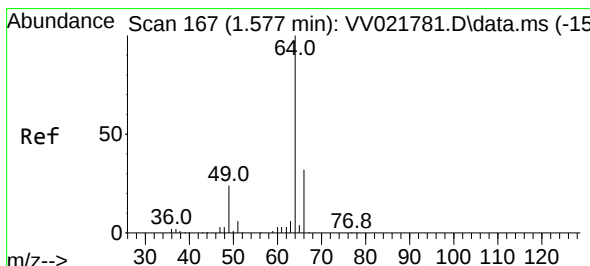
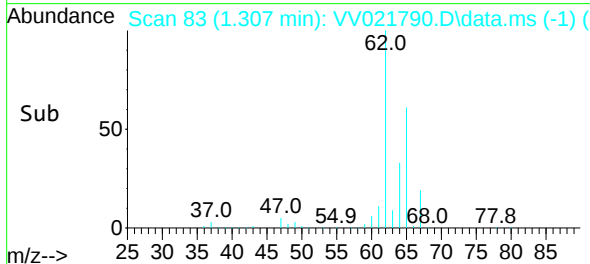
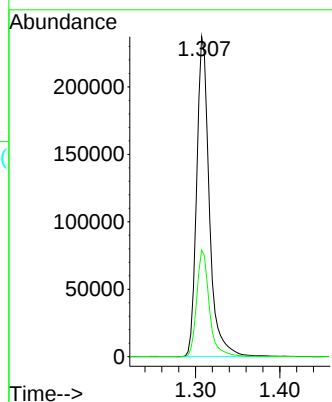
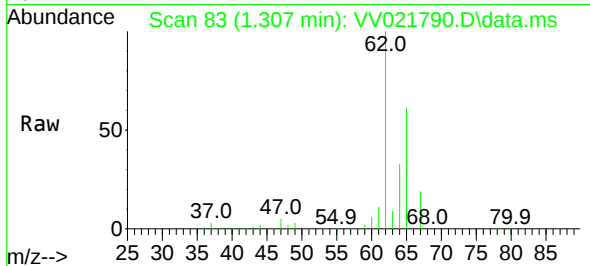




#5
 Vinyl chloride
 Concen: 72.112 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. -0.003 min
 Lab File: VV021790.D
 Acq: 16 Aug 2021 14:53

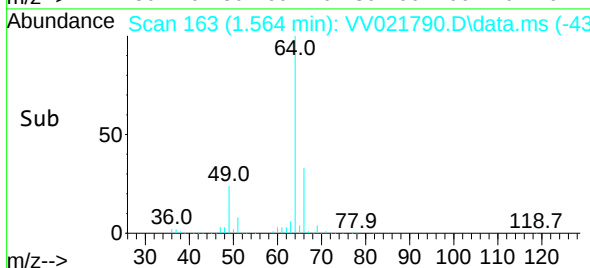
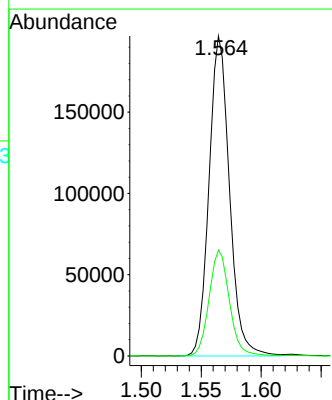
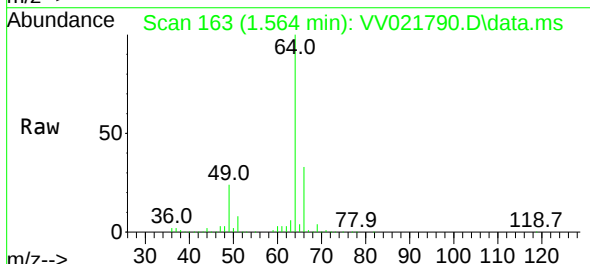
Instrument :
 MSVOA_V
 ClientSampled :

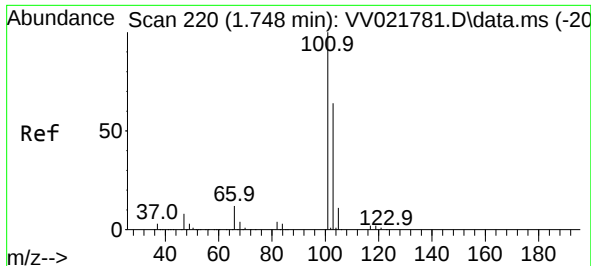
Tgt Ion: 62 Resp: 248495
 Ion Ratio Lower Upper
 62 100
 64 33.3 23.4 43.4



#8
 Chloroethane
 Concen: 113.277 ug/L
 RT: 1.564 min Scan# 163
 Delta R.T. -0.013 min
 Lab File: VV021790.D
 Acq: 16 Aug 2021 14:53

Tgt Ion: 64 Resp: 233261
 Ion Ratio Lower Upper
 64 100
 66 33.1 22.6 42.0

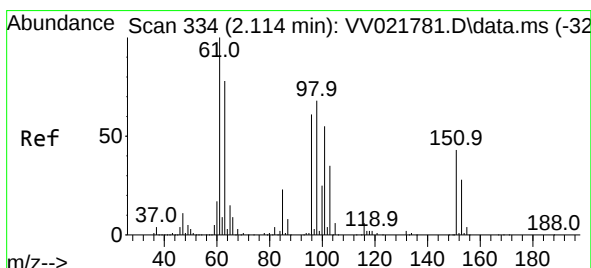
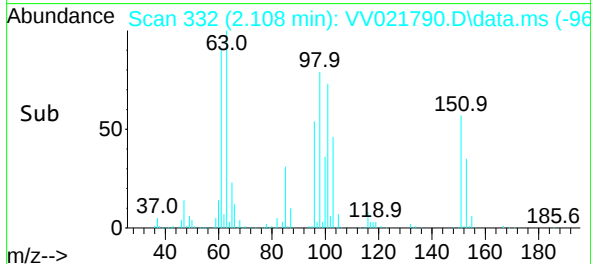
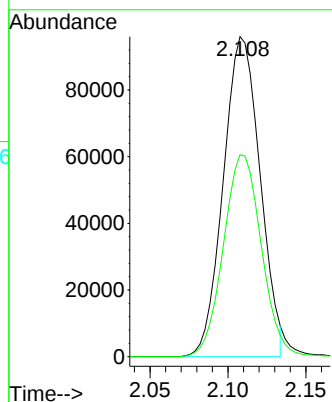
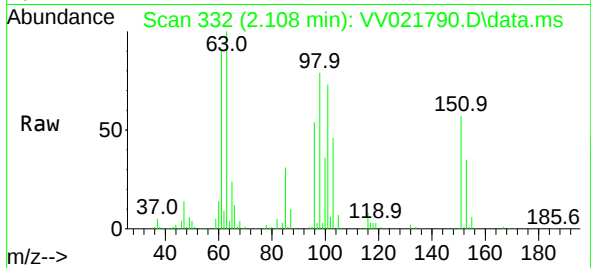




#9
Trichlorofluoromethane
Concen: 33.301 ug/L
RT: 2.108 min Scan# 332
Delta R.T. 0.360 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

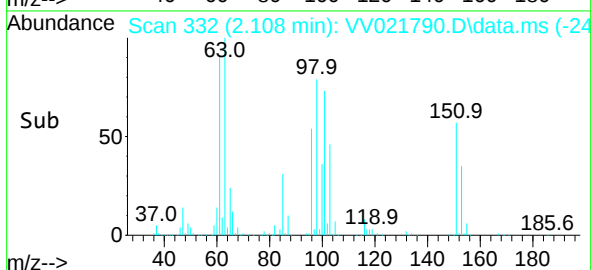
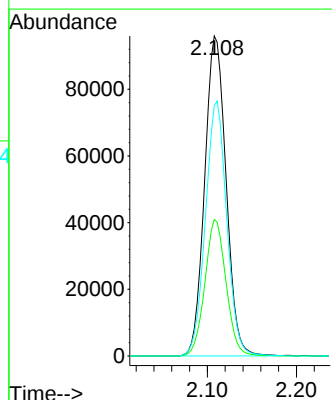
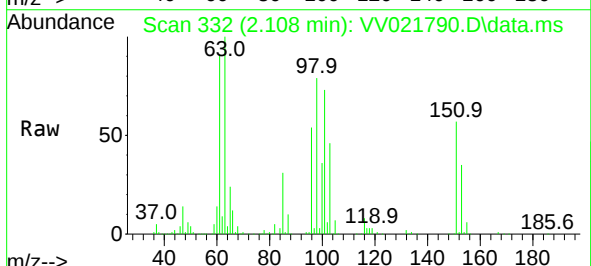
Instrument :
MSVOA_V
ClientSampled :

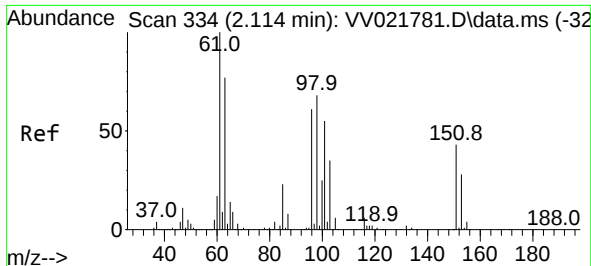
Tgt Ion:101 Resp: 157227
Ion Ratio Lower Upper
101 100
103 64.1 51.8 77.8



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 59.381 ug/L
RT: 2.108 min Scan# 332
Delta R.T. -0.007 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Tgt Ion:101 Resp: 160518
Ion Ratio Lower Upper
101 100
85 42.0 33.4 50.2
151 79.4 62.2 93.2





#12

1,1-Dichloroethene

Concen: 41.294 ug/L

RT: 2.111 min Scan# 333

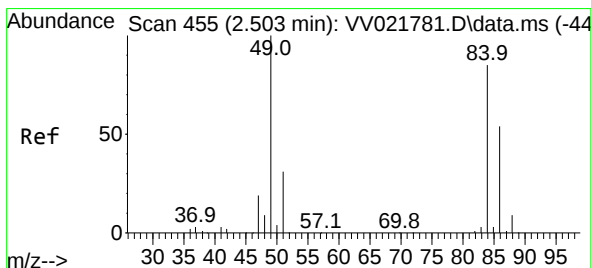
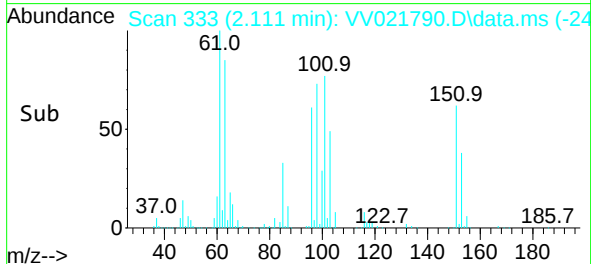
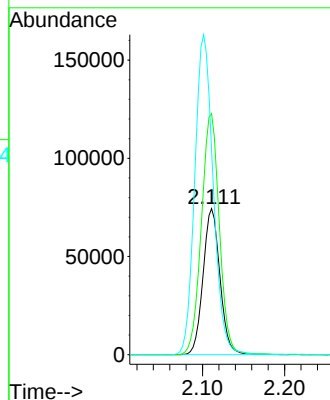
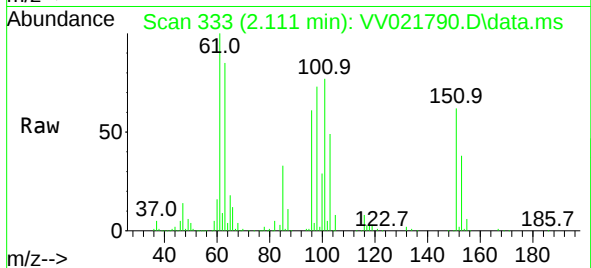
Delta R.T. -0.003 min

Lab File: VV021790.D

Acq: 16 Aug 2021 14:53

Tgt Ion: 96 Resp: 106322

Ion	Ratio	Lower	Upper
96	100		
61	165.0	115.5	214.5
63	140.3	90.3	167.7



#16

Methylene chloride

Concen: 1.620 ug/L

RT: 2.503 min Scan# 455

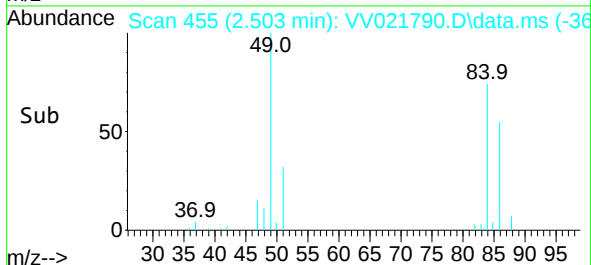
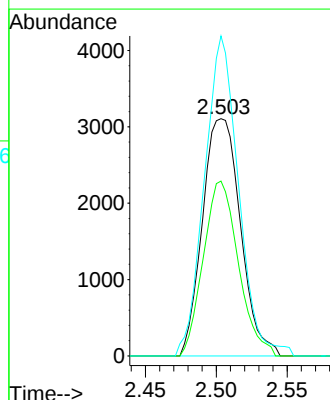
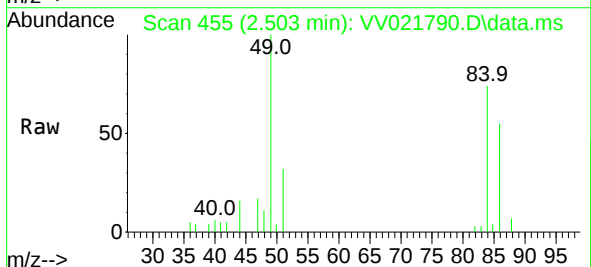
Delta R.T. -0.000 min

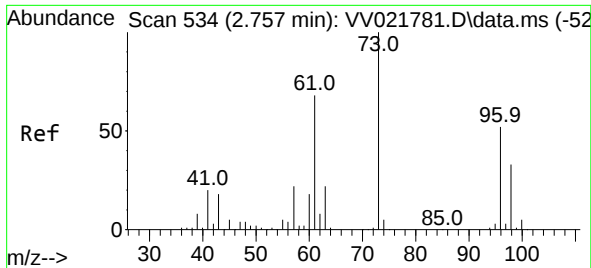
Lab File: VV021790.D

Acq: 16 Aug 2021 14:53

Tgt Ion: 84 Resp: 5801

Ion	Ratio	Lower	Upper
84	100		
86	73.7	44.7	83.1
49	134.9	82.5	153.3

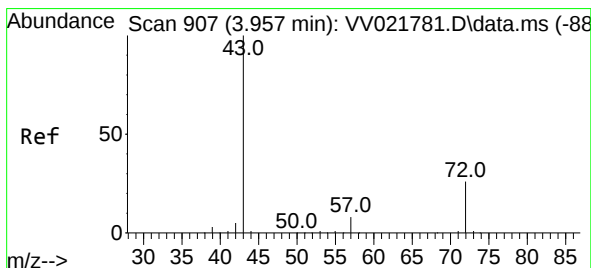
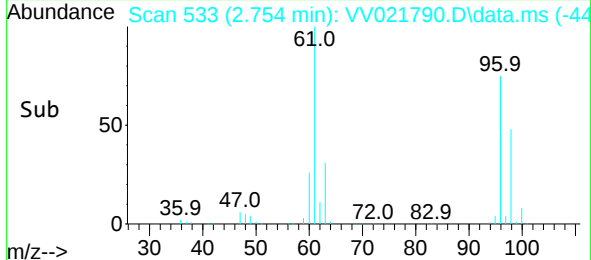
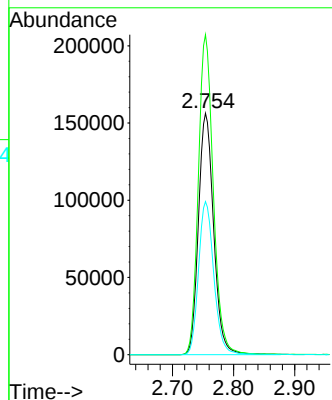
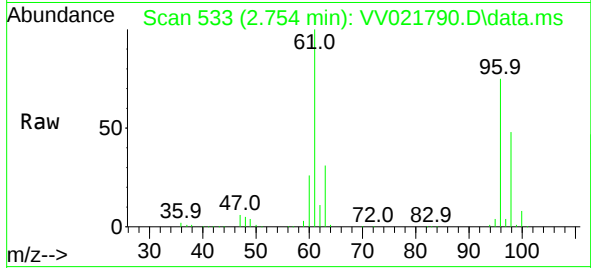




#17
trans-1,2-Dichloroethene
Concen: 89.413 ug/L
RT: 2.754 min Scan# 533
Delta R.T. -0.003 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

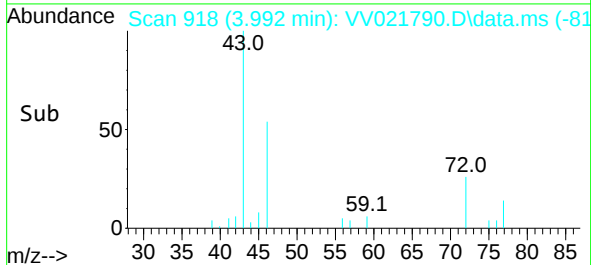
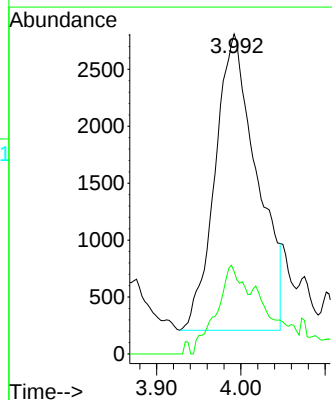
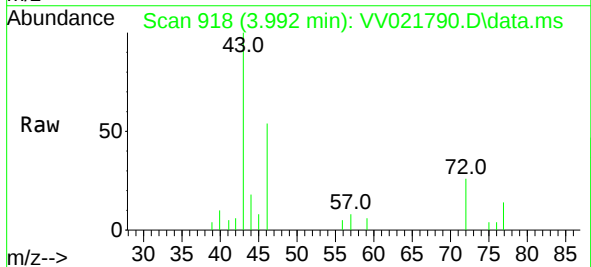
Instrument :
MSVOA_V
ClientSampled :

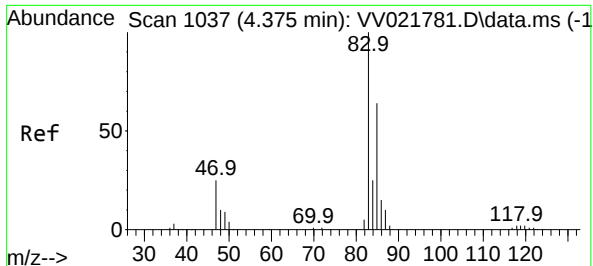
Tgt Ion: 96 Resp: 270142
Ion Ratio Lower Upper
96 100
61 132.5 90.4 168.0
98 63.4 44.4 82.5



#22
2-Butanone
Concen: 3.530 ug/L
RT: 3.992 min Scan# 918
Delta R.T. 0.035 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Tgt Ion: 43 Resp: 8957
Ion Ratio Lower Upper
43 100
72 12.8 13.6 40.8#





#25

Chloroform

Concen: 0.629 ug/L

RT: 4.378 min Scan# 1038

Delta R.T. 0.003 min

Lab File: VV021790.D

Acq: 16 Aug 2021 14:53

Tgt Ion: 83 Resp: 3642

Ion Ratio Lower Upper

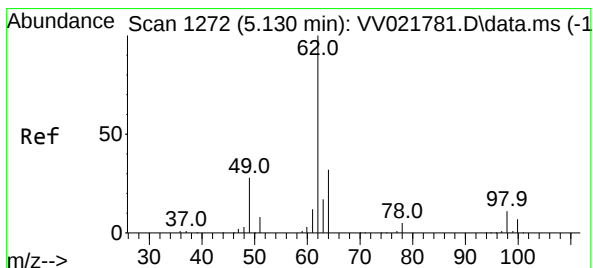
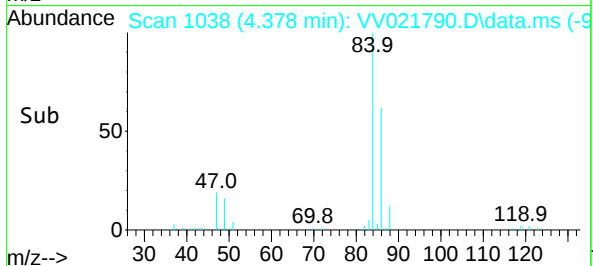
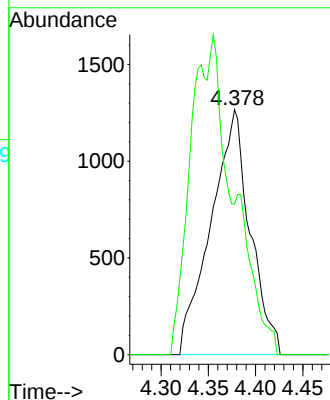
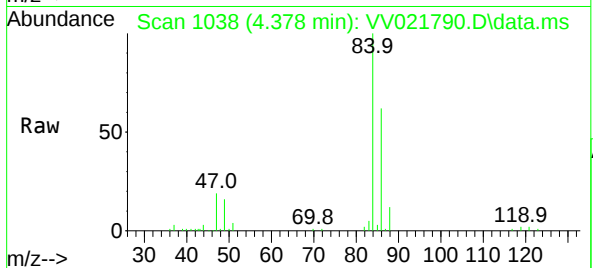
83 100

85 61.5 44.8 83.2

Instrument :

MSVOA_V

ClientSampled :



#27

1,2-Dichloroethane

Concen: 28.592 ug/L

RT: 5.130 min Scan# 1272

Delta R.T. -0.000 min

Lab File: VV021790.D

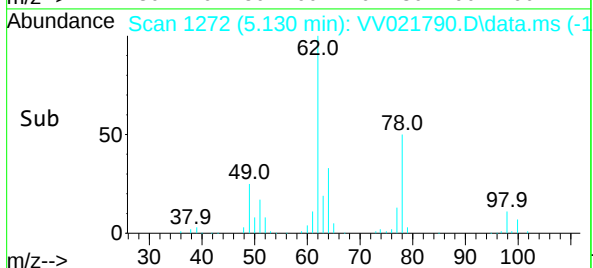
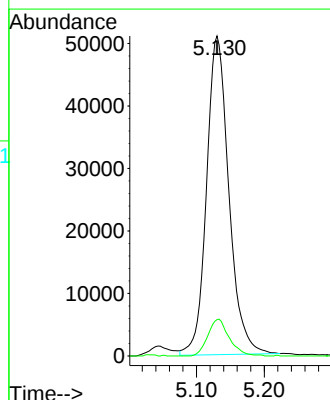
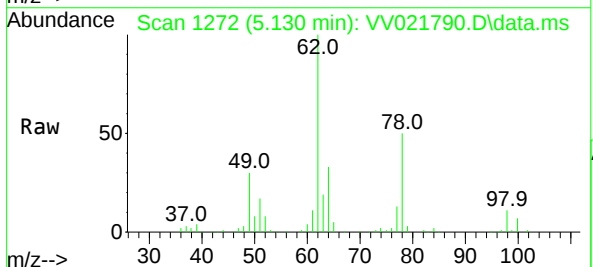
Acq: 16 Aug 2021 14:53

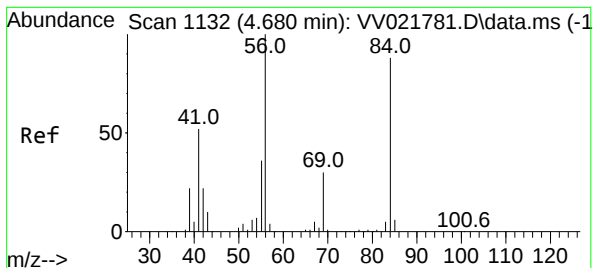
Tgt Ion: 62 Resp: 116580

Ion Ratio Lower Upper

62 100

98 11.3 8.6 13.0





#29

Cyclohexane

Concen: 53.991 ug/L

RT: 4.674 min Scan# 1130

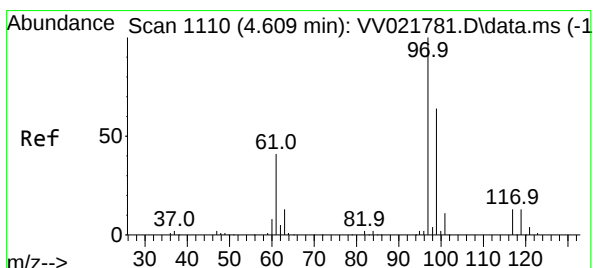
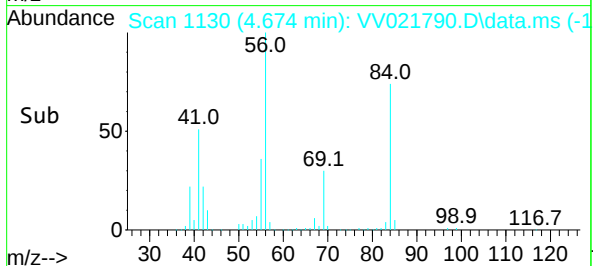
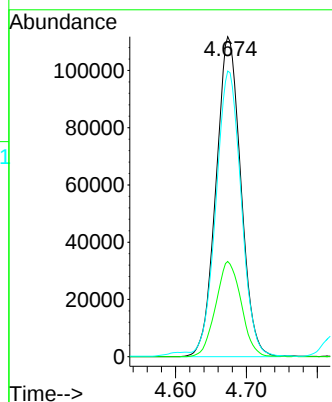
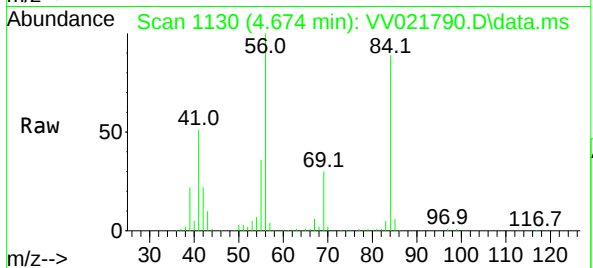
Delta R.T. -0.006 min

Lab File: VV021790.D

Acq: 16 Aug 2021 14:53

Tgt Ion:	56	Resp:	271735
Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.9	37.3
84	90.2	72.6	109.0

Instrument :
MSVOA_V
ClientSampleId :



#30

1,1,1-Trichloroethane

Concen: 45.637 ug/L

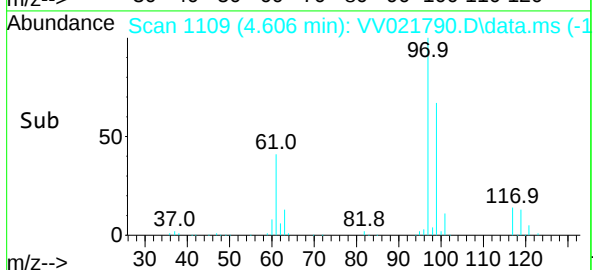
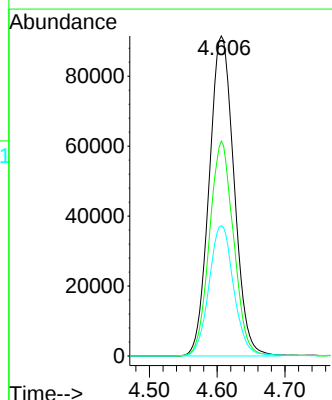
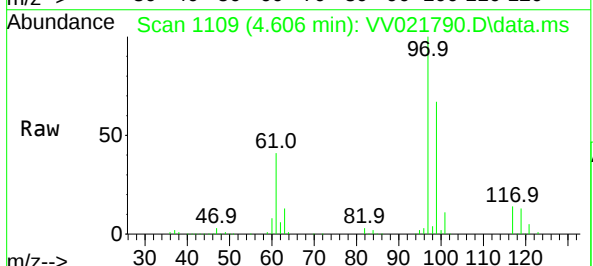
RT: 4.606 min Scan# 1109

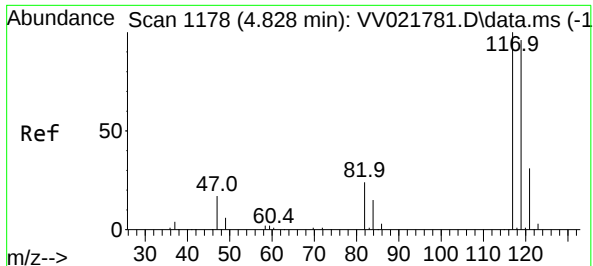
Delta R.T. -0.003 min

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Tgt Ion:	97	Resp:	233369
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.0	76.4
61	40.1	32.3	48.5

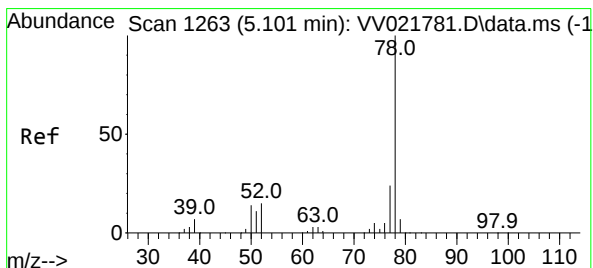
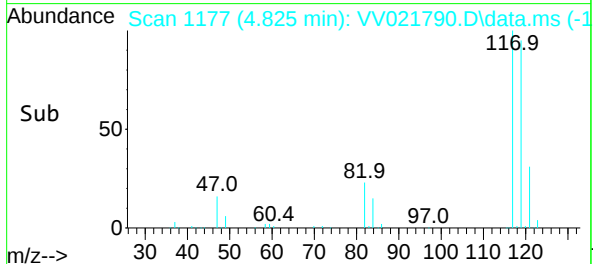
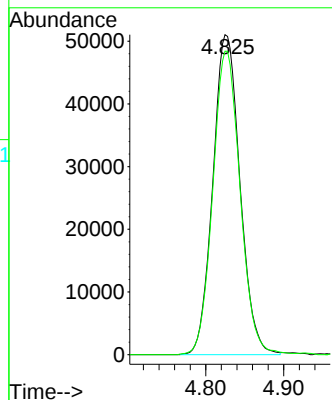
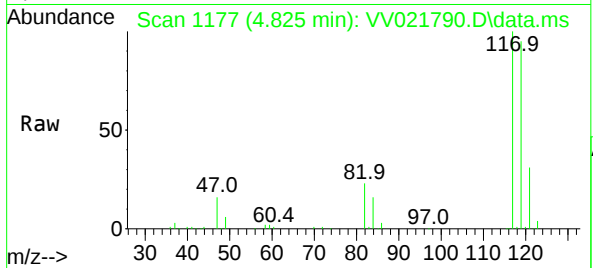




#31
Carbon tetrachloride
Concen: 27.845 ug/L
RT: 4.825 min Scan# 1177
Delta R.T. -0.003 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

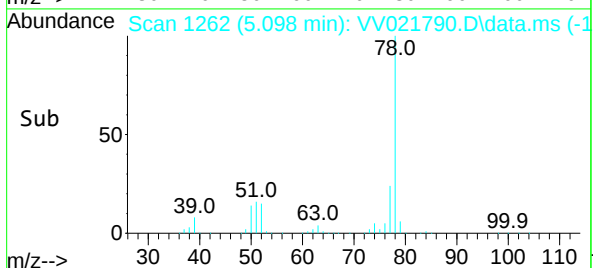
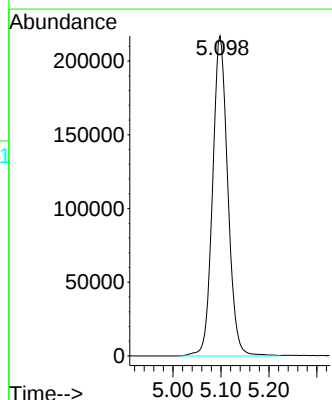
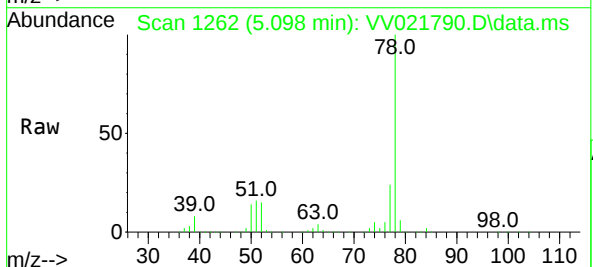
Instrument :
MSVOA_V
ClientSampleId :

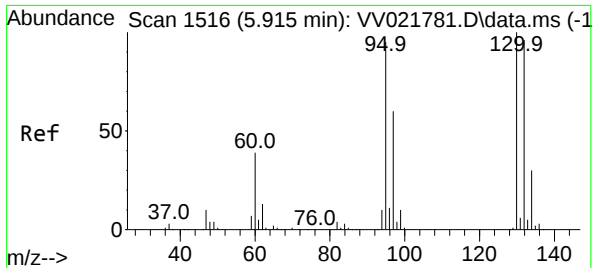
Tgt Ion:117 Resp: 123207
Ion Ratio Lower Upper
117 100
119 95.9 77.1 115.7



#33
Benzene
Concen: 38.078 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Tgt Ion: 78 Resp: 478853



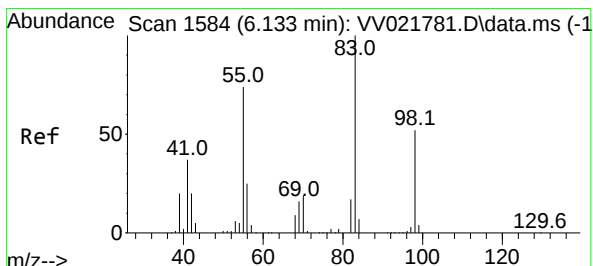
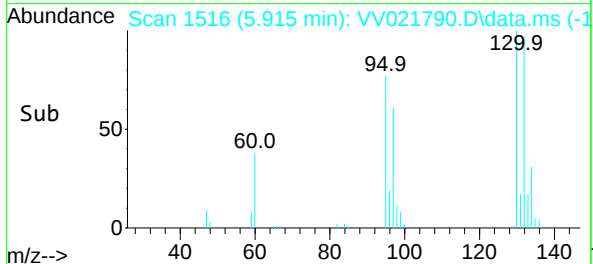
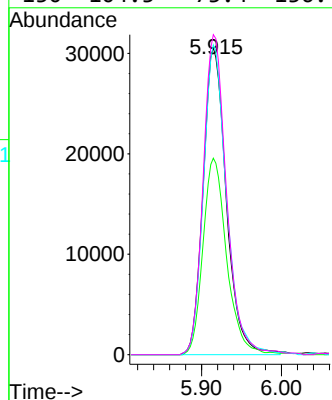
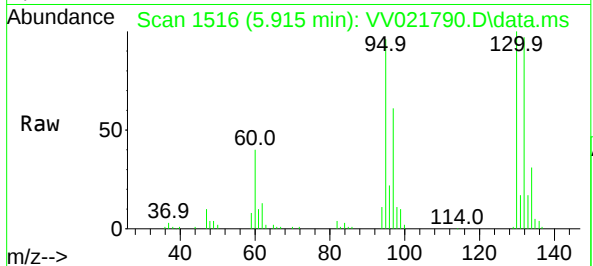


#34
Trichloroethene
Concen: 17.030 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 95 Resp: 61543

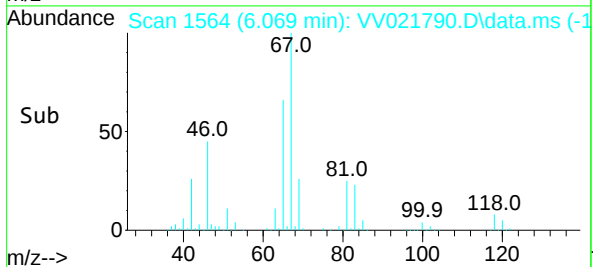
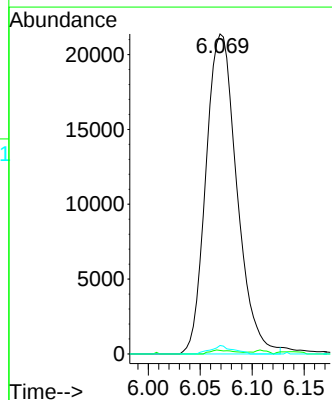
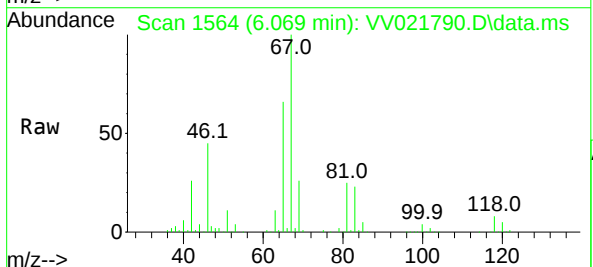
Ion	Ratio	Lower	Upper
95	100		
97	64.0	44.1	81.9
132	100.9	70.2	130.4
130	104.3	73.4	136.4

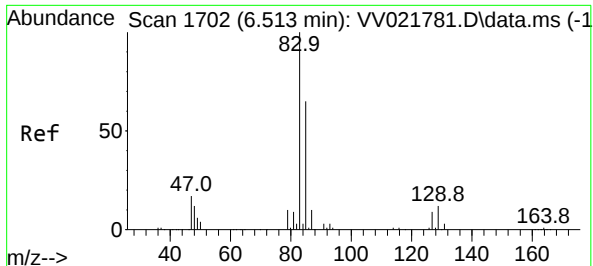


#35
Methylcyclohexane
Concen: 8.383 ug/L
RT: 6.069 min Scan# 1564
Delta R.T. -0.064 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Tgt Ion: 83 Resp: 44198

Ion	Ratio	Lower	Upper
83	100		
55	0.5	57.9	86.9#
98	1.9	39.9	59.9#

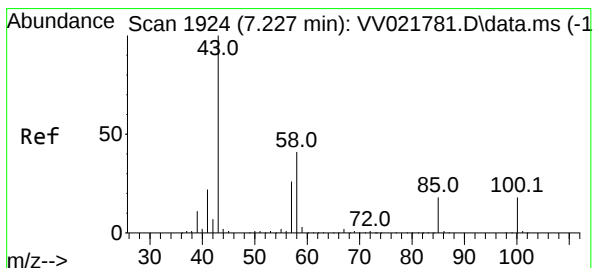
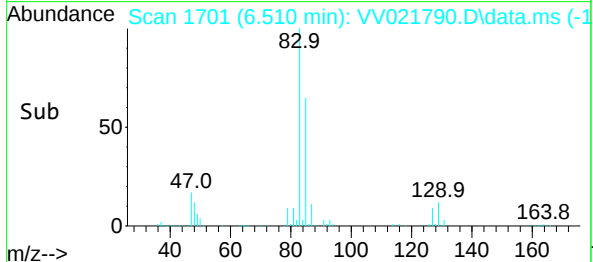
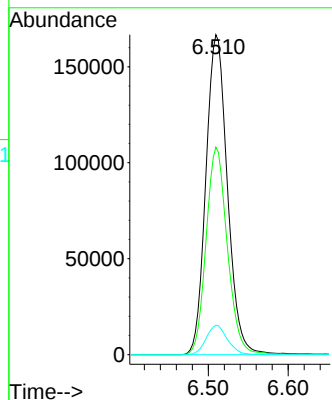
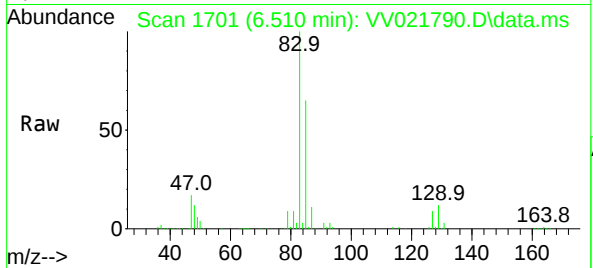




#38
Bromodichloromethane
Concen: 74.348 ug/L
RT: 6.510 min Scan# 1701
Delta R.T. -0.003 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

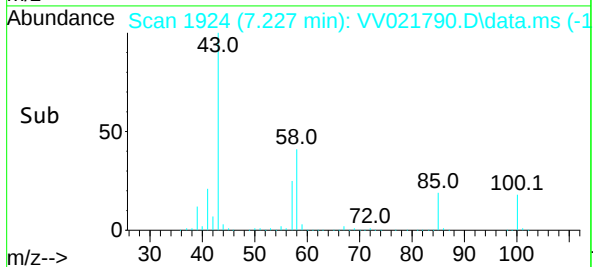
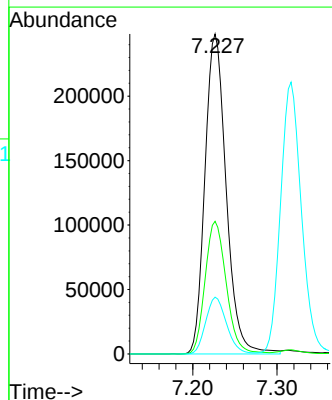
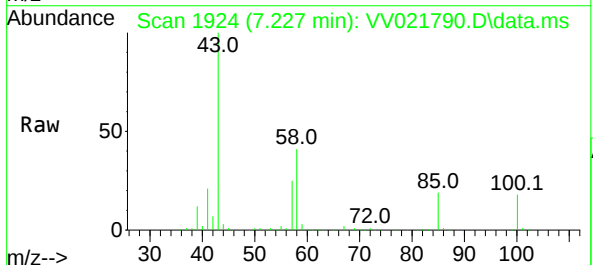
Instrument :
MSVOA_V
ClientSampled :

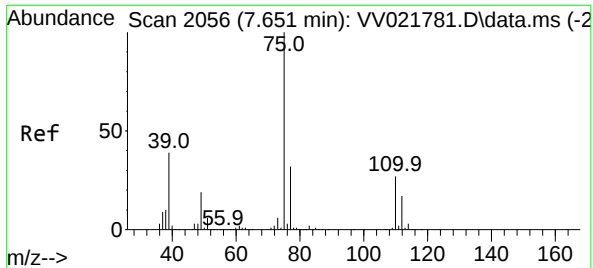
Tgt Ion: 83 Resp: 312031
Ion Ratio Lower Upper
83 100
85 64.8 45.7 84.9
127 9.2 7.4 11.2



#40
4-Methyl-2-pentanone
Concen: 99.499 ug/L
RT: 7.227 min Scan# 1924
Delta R.T. -0.000 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Tgt Ion: 43 Resp: 435825
Ion Ratio Lower Upper
43 100
58 41.4 32.9 49.3
100 17.4 14.0 21.0

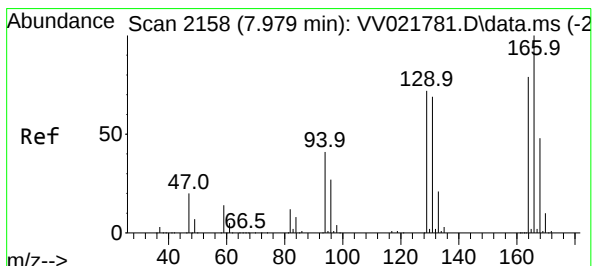
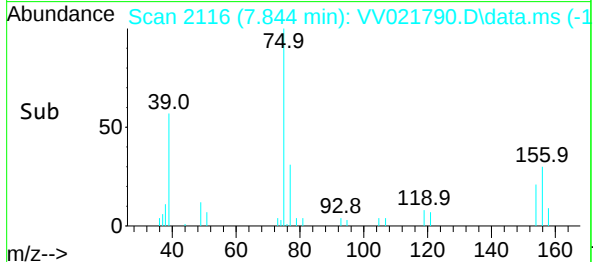
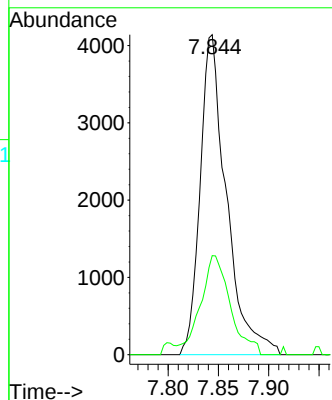
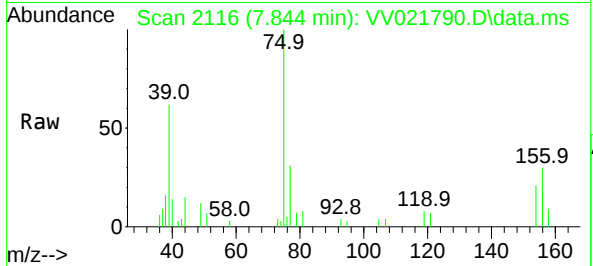




#44
trans-1,3-Dichloropropene
Concen: 1.585 ug/L
RT: 7.844 min Scan# 2116
Delta R.T. 0.193 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

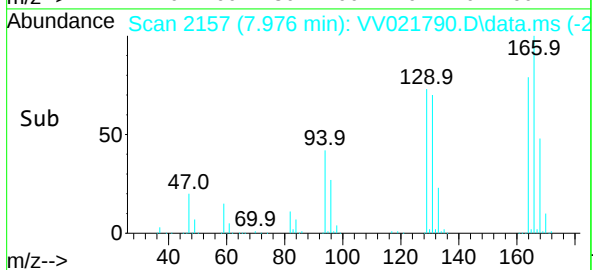
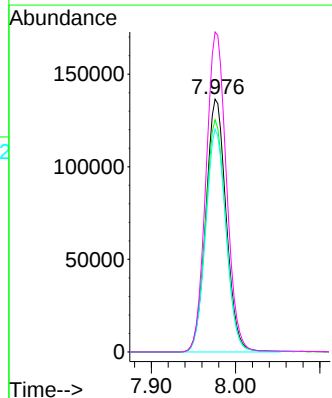
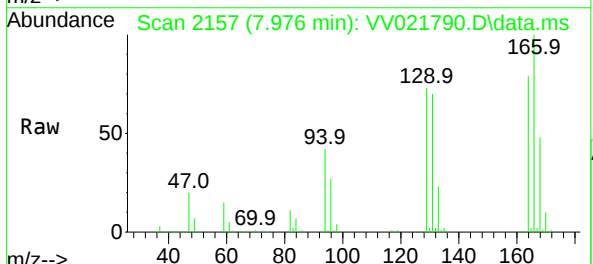
Instrument :
MSVOA_V
ClientSampled :

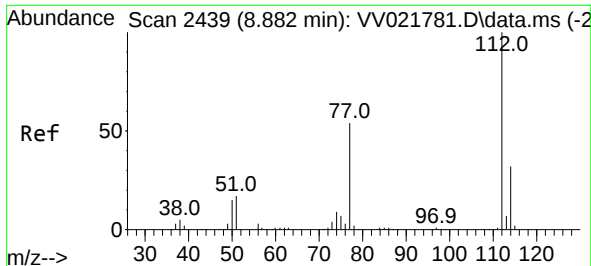
Tgt Ion: 75 Resp: 7533
Ion Ratio Lower Upper
75 100
77 31.0 22.2 41.2



#46
Tetrachloroethene
Concen: 85.257 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.003 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Tgt Ion: 164 Resp: 228974
Ion Ratio Lower Upper
164 100
129 91.8 63.7 118.3
131 88.0 61.5 114.3
166 126.6 88.6 164.6

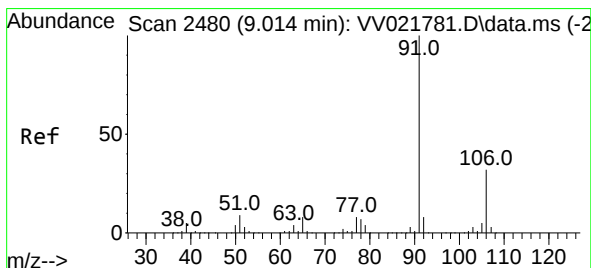
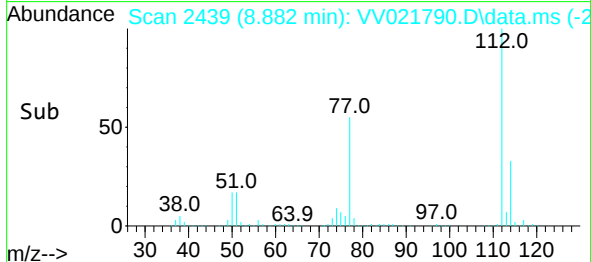
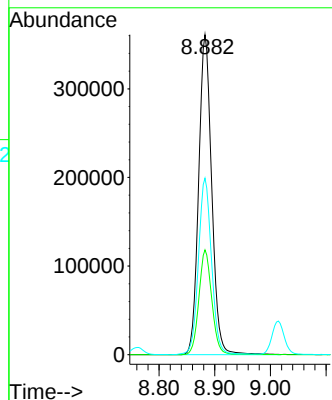
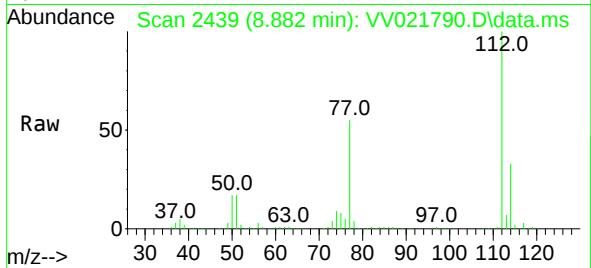




#51
Chlorobenzene
Concen: 67.093 ug/L
RT: 8.882 min Scan# 2439
Delta R.T. -0.000 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

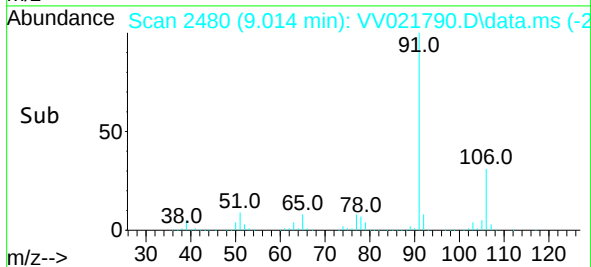
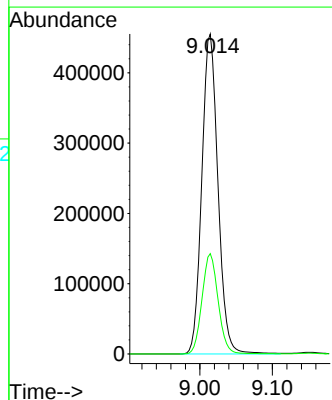
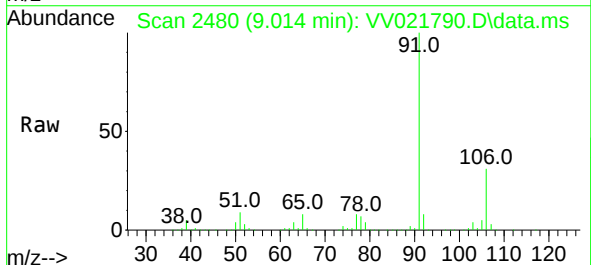
Instrument :
MSVOA_V
ClientSampleId :

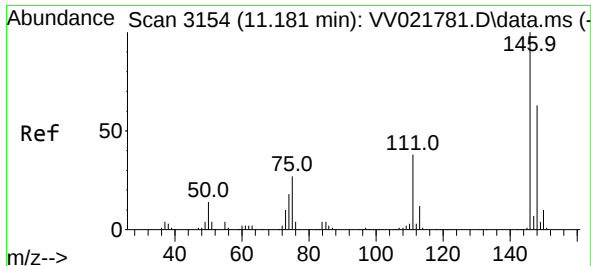
Tgt Ion:112 Resp: 588358
Ion Ratio Lower Upper
112 100
114 32.7 22.2 41.2
77 55.2 43.7 65.5



#52
Ethylbenzene
Concen: 49.217 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. -0.000 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

Tgt Ion: 91 Resp: 705234
Ion Ratio Lower Upper
91 100
106 31.4 22.2 41.2

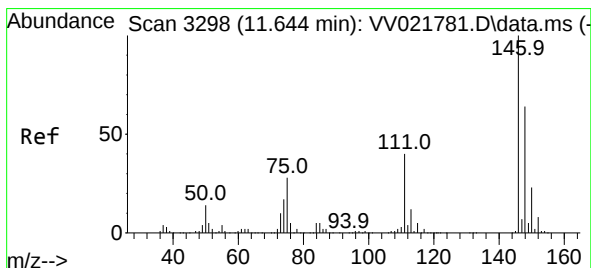
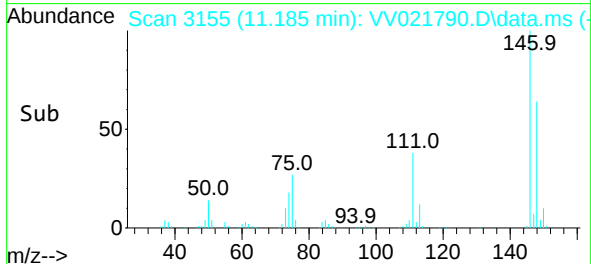
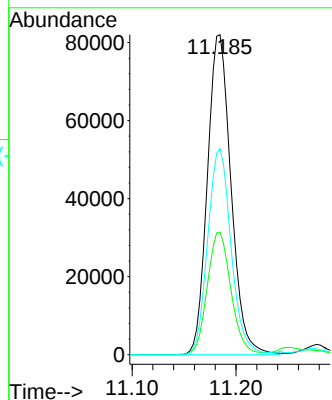
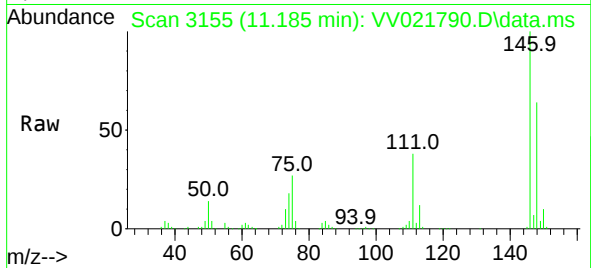




#64
1,3-Dichlorobenzene
Concen: 18.494 ug/L
RT: 11.185 min Scan# 3155
Delta R.T. 0.003 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

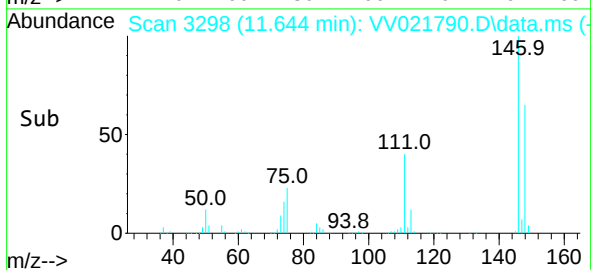
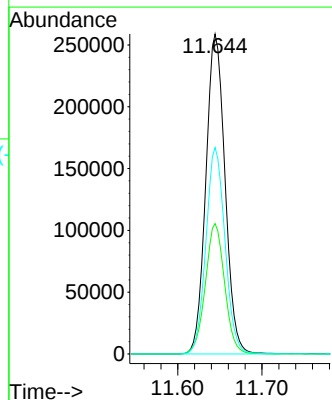
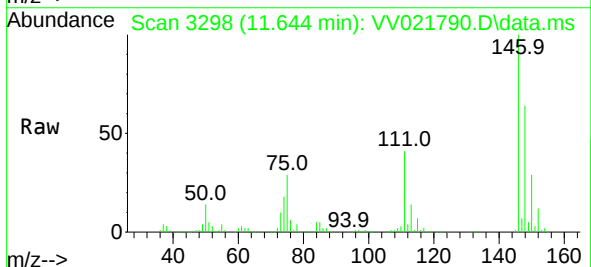
Instrument :
MSVOA_V
ClientSampled :

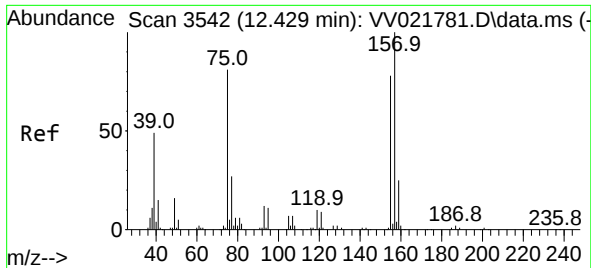
Tgt Ion:146 Resp: 129419
Ion Ratio Lower Upper
146 100
111 38.3 26.5 49.1
148 64.4 44.3 82.3



#67
1,2-Dichlorobenzene
Concen: 58.144 ug/L
RT: 11.644 min Scan# 3298
Delta R.T. -0.000 min
Lab File: VV021790.D
Acq: 16 Aug 2021 14:53

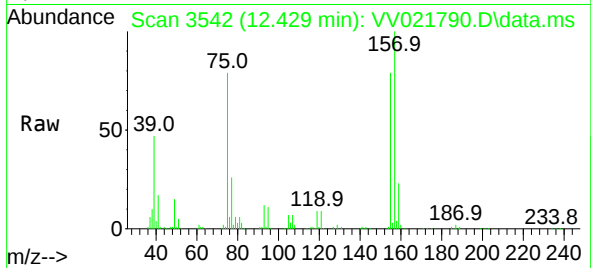
Tgt Ion:146 Resp: 410448
Ion Ratio Lower Upper
146 100
111 40.8 31.8 47.8
148 64.5 51.0 76.6





#68
 1,2-Dibromo-3-chloropropane
 Concen: 107.194 ug/L
 RT: 12.429 min Scan# 3542
 Delta R.T. -0.000 min
 Lab File: VV021790.D
 Acq: 16 Aug 2021 14:53

Instrument :
 MSVOA_V
 ClientSampled :



Tgt Ion: 75 Resp: 103808
 Ion Ratio Lower Upper
 75 100
 155 101.1 77.8 116.8
 157 127.3 99.4 149.0

