

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062922\
 Data File : VU049525.D
 Acq On : 29 Jun 2022 19:53
 Operator : SY/MD
 Sample : N3457-18
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP03-20220621

Quant Time: Jun 30 00:50:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U062722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 28 10:35:43 2022
 Response via : Initial Calibration

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

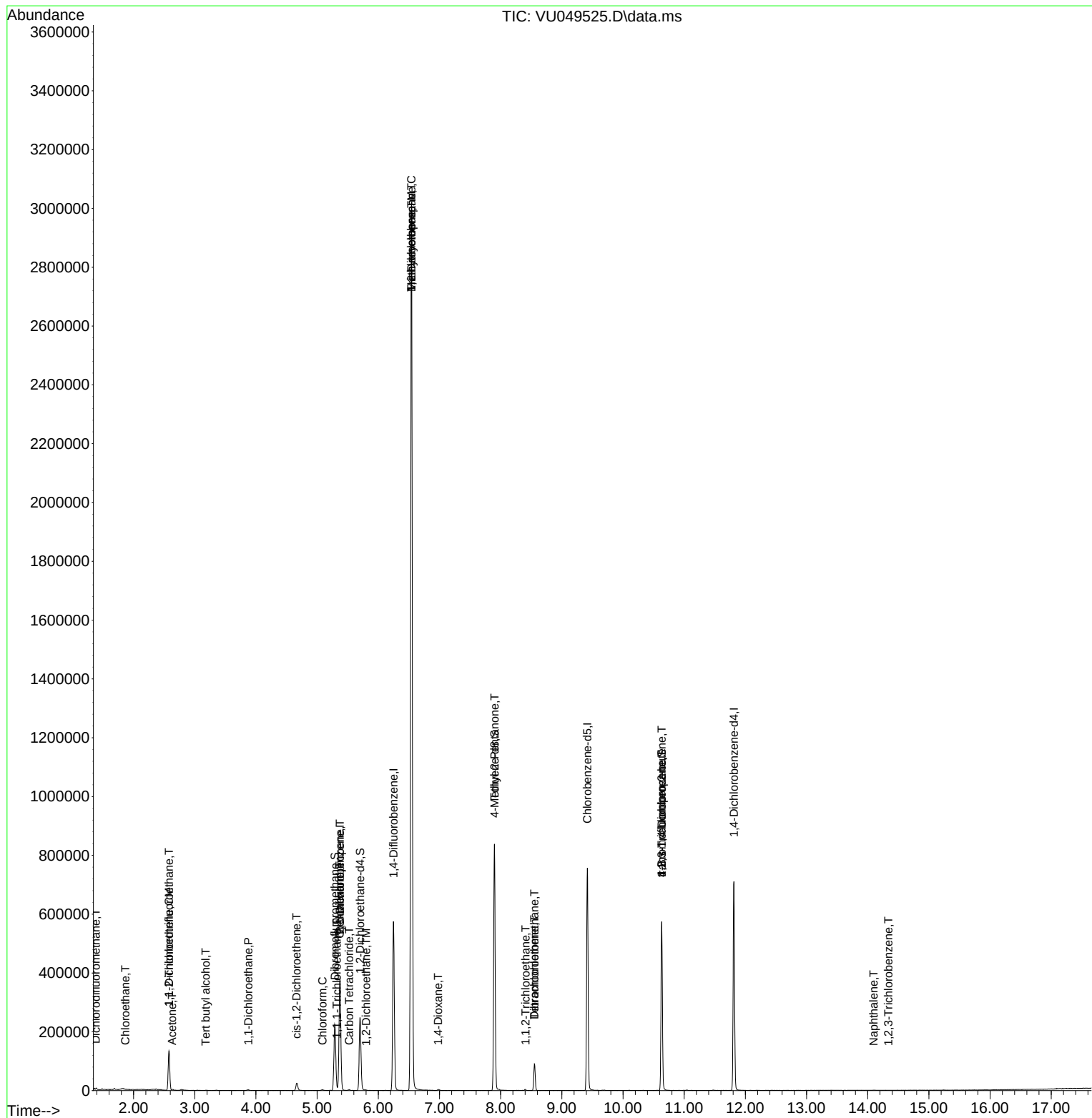
Internal Standards						
1) Pentafluorobenzene	5.372	168	262347	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.250	114	462855	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	418921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	188221	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	184253	45.604	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	91.200%
35) Dibromofluoromethane	5.289	113	146474	45.232	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.460%
50) Toluene-d8	7.899	98	554675	48.024	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.040%
62) 4-Bromofluorobenzene	10.632	95	198294	44.818	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.640%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.382	85	1257	0.298	ug/l	98
3) Chloromethane	1.520	50	1188	Below Cal		91
6) Chloroethane	1.864	64	42	1.936	ug/l #	44
9) 1,1,2-Trichlorotrifluo...	2.578	101	41661	14.315	ug/l	96
11) Tert butyl alcohol	3.179	59	292	0.309	ug/l #	37
12) 1,1-Dichloroethene	2.578	96	10320	3.622	ug/l	96
16) Acetone	2.630	43	1995	0.979	ug/l	95
20) Methylene Chloride	3.044	84	273	Below Cal	#	85
24) 1,1-Dichloroethane	3.877	63	3039	0.481	ug/l #	82
27) cis-1,2-Dichloroethene	4.665	96	13368	3.767	ug/l	100
30) Chloroform	5.089	83	2107	0.337	ug/l	100
31) Cyclohexane	5.369	56	5535	0.912	ug/l #	11
32) 1,1,1-Trichloroethane	5.321	97	1166	0.215	ug/l #	24
36) 1,1-Dichloropropene	5.372	75	21889	4.662	ug/l #	48
38) Carbon Tetrachloride	5.526	117	1718	0.349	ug/l #	93
39) Methylcyclohexane	6.539	83	12984	2.307	ug/l #	1
42) 1,2-Dichloroethane	5.800	62	1104	0.209	ug/l #	74
44) Trichloroethene	6.543	130	1001247	297.107	ug/l	87
45) 1,2-Dichloropropane	6.539	63	3390	0.863	ug/l #	1
49) 1,4-Dioxane	6.980	88	3104	27.499	ug/l #	1
51) 4-Methyl-2-Pentanone	7.903	43	2304	0.366	ug/l #	1
55) 1,1,2-Trichloroethane	8.407	97	1063	0.305	ug/l #	79
60) Dibromochloromethane	8.552	129	19824	5.472	ug/l #	11
64) Tetrachloroethene	8.552	164	20979	7.808	ug/l	97
76) 1,2,3-Trichloropropane	10.632	75	101664	15.934	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.632	75	101664	58.840	ug/l #	15
95) Naphthalene	14.099	128	1096	1.808	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.340	180	20	1.182	ug/l #	12

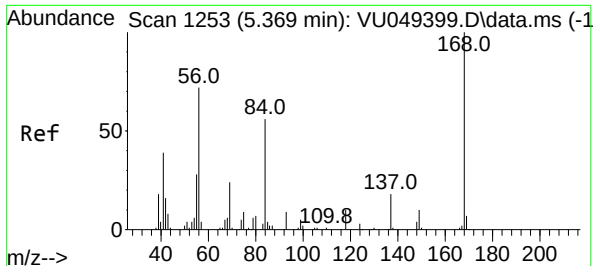
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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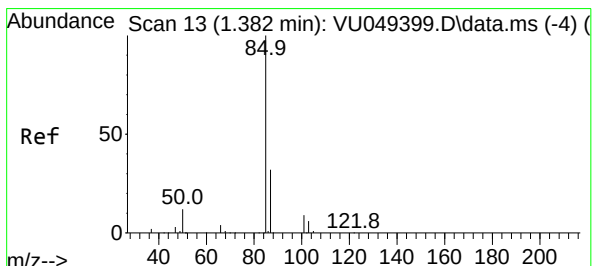
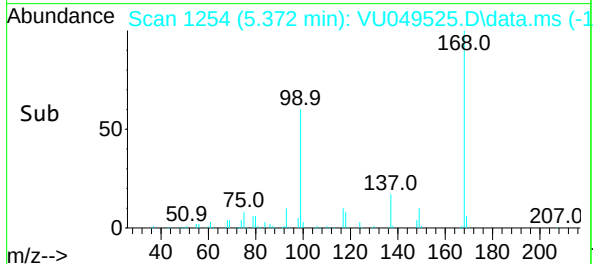
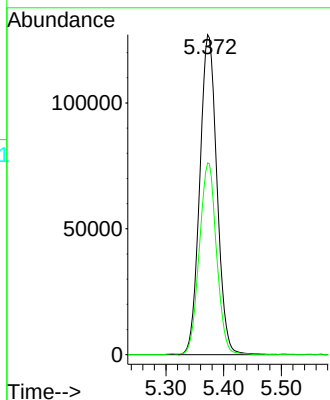
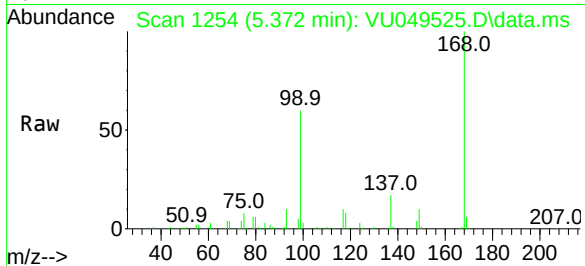




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

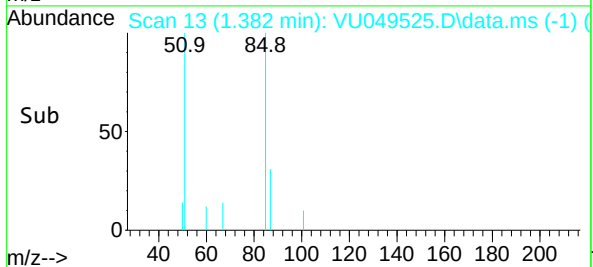
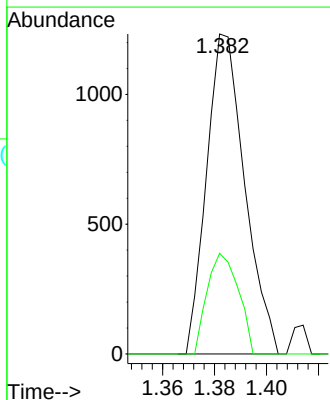
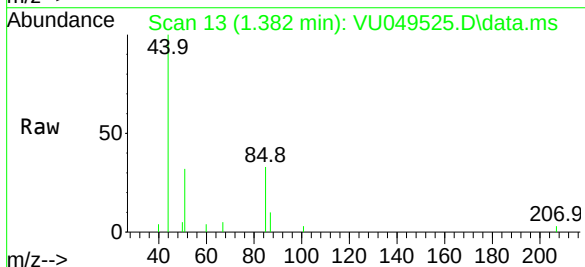
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

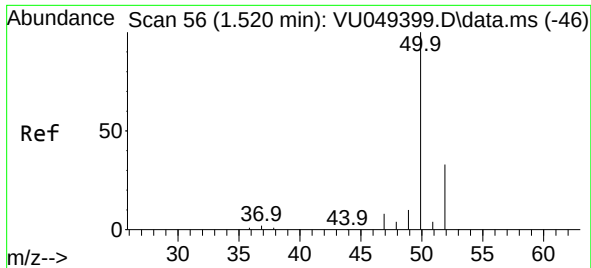
Tgt Ion:168 Resp: 262347
Ion Ratio Lower Upper
168 100
99 59.8 39.3 58.9#



#2
Dichlorodifluoromethane
Concen: 0.298 ug/l
RT: 1.382 min Scan# 13
Delta R.T. 0.000 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 85 Resp: 1257
Ion Ratio Lower Upper
85 100
87 31.5 16.4 49.2

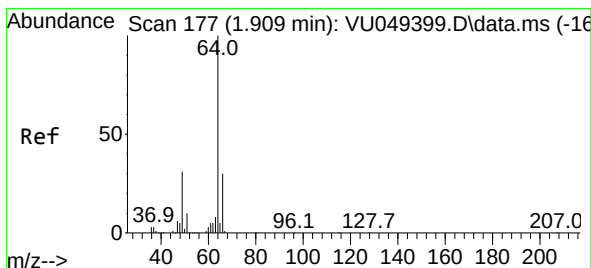
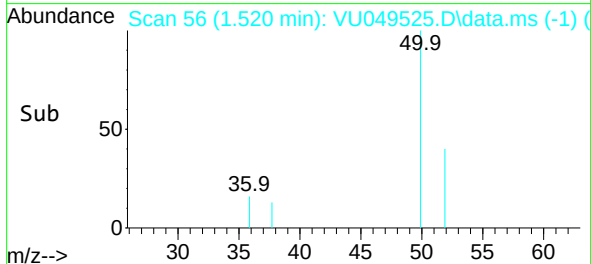
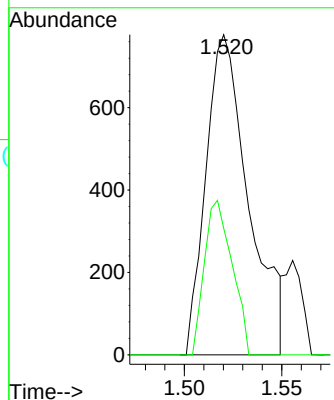
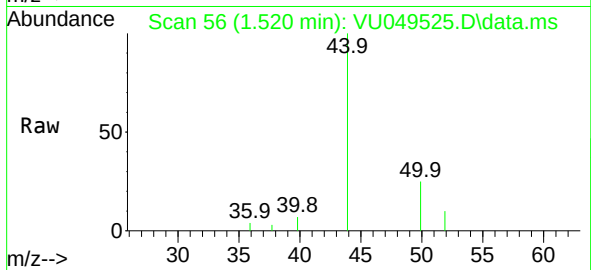




#3
Chloromethane
Concen: Below Cal
RT: 1.520 min Scan# 50
Delta R.T. 0.000 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

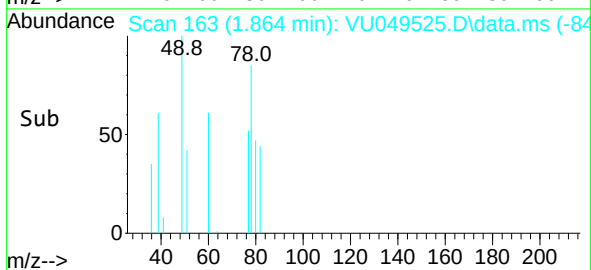
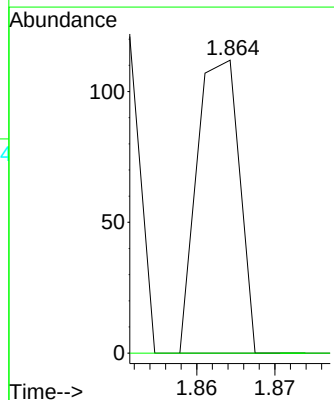
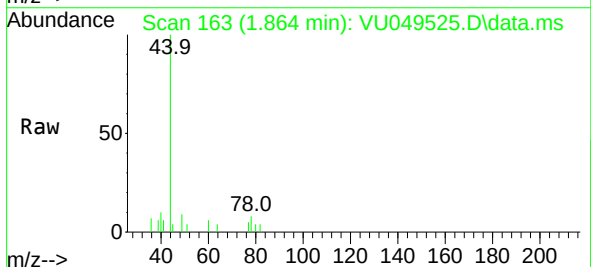
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

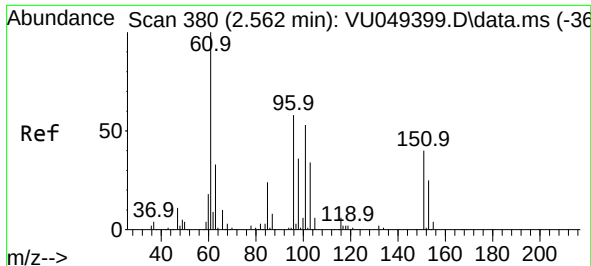
Tgt Ion: 50 Resp: 1188
Ion Ratio Lower Upper
50 100
52 39.5 27.4 41.2



#6
Chloroethane
Concen: 1.936 ug/l
RT: 1.864 min Scan# 163
Delta R.T. -0.045 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 64 Resp: 42
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#

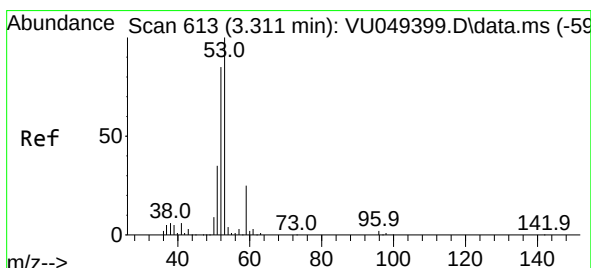
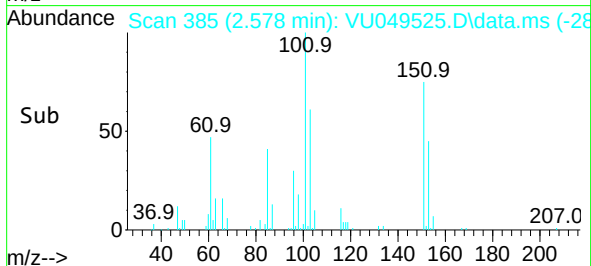
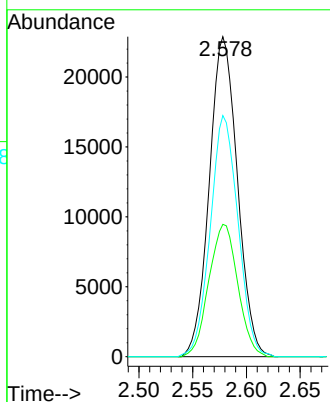
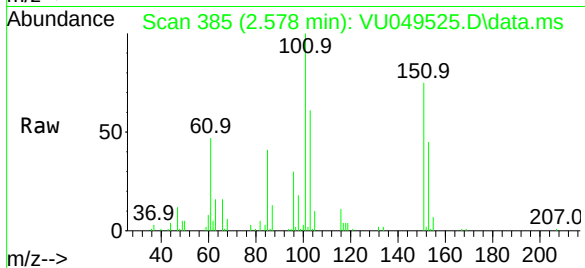




#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.315 ug/l
RT: 2.578 min Scan# 31
Delta R.T. 0.016 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

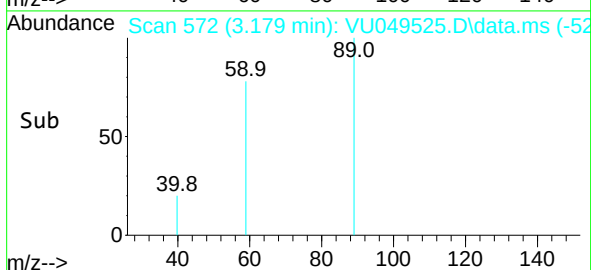
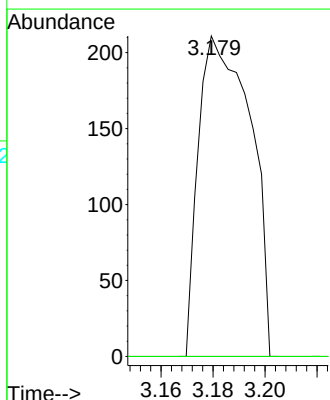
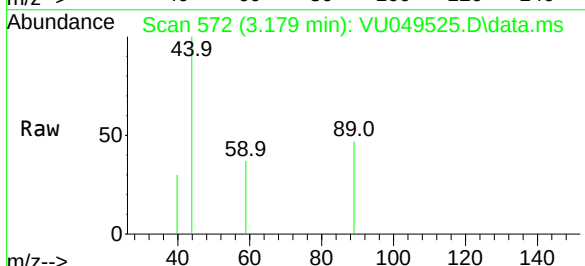
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

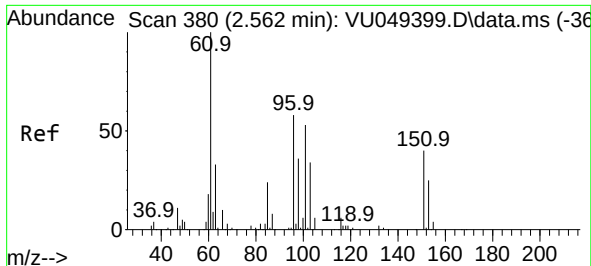
Tgt Ion:101 Resp: 41661
Ion Ratio Lower Upper
101 100
85 42.5 33.9 50.9
151 74.3 64.0 96.0



#11
Tert butyl alcohol
Concen: 0.309 ug/l
RT: 3.179 min Scan# 572
Delta R.T. -0.132 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 59 Resp: 292
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#

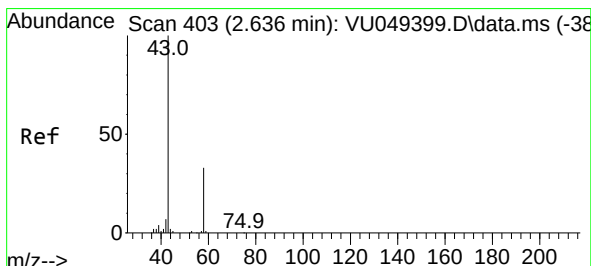
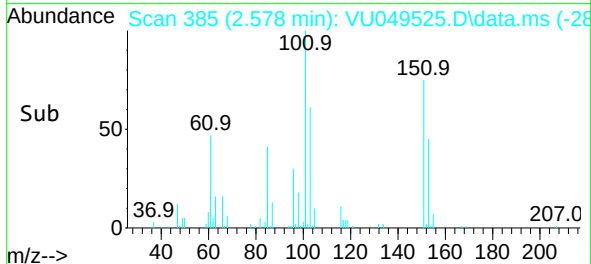
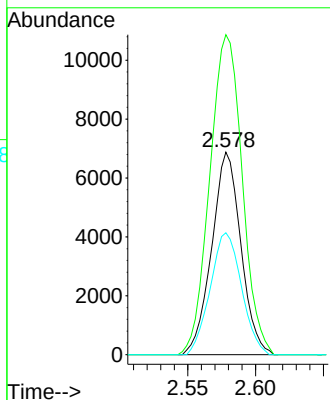
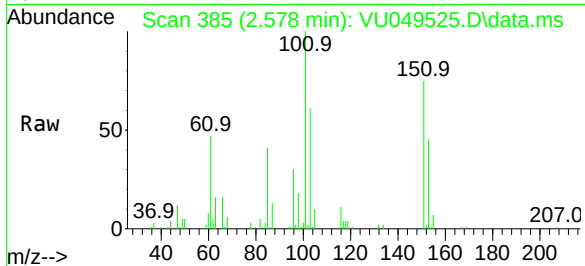




#12
1,1-Dichloroethene
Concen: 3.622 ug/l
RT: 2.578 min Scan# 380
Delta R.T. 0.016 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

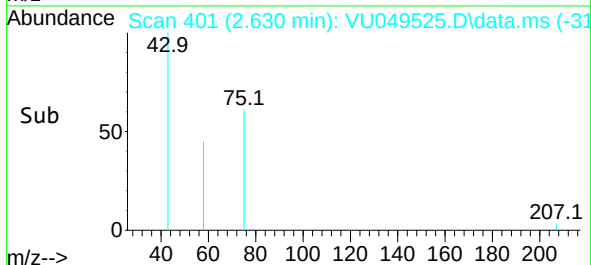
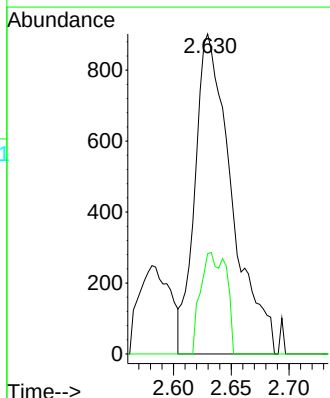
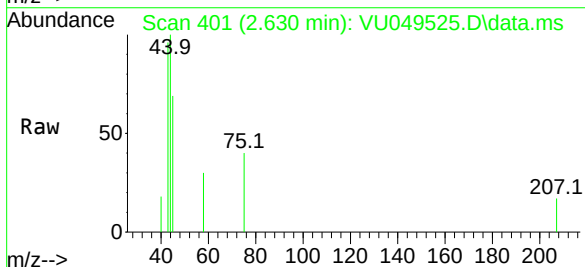
Instrument :
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ClientSampleId :
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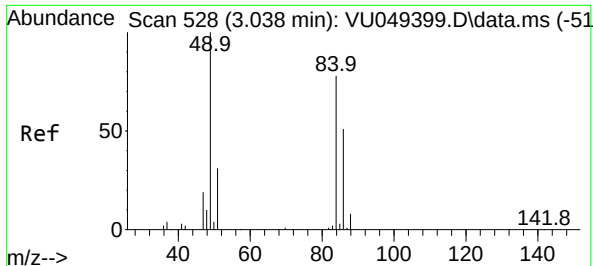
Tgt Ion: 96 Resp: 10320
Ion Ratio Lower Upper
96 100
61 158.0 122.2 183.2
98 60.2 50.7 76.1



#16
Acetone
Concen: 0.979 ug/l
RT: 2.630 min Scan# 401
Delta R.T. -0.006 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

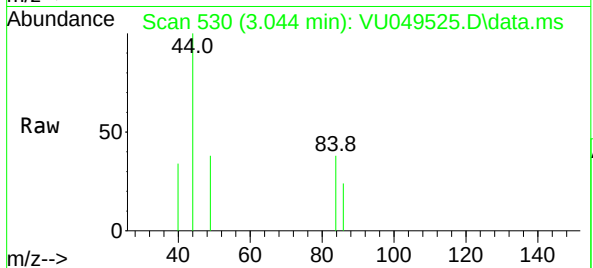
Tgt Ion: 43 Resp: 1995
Ion Ratio Lower Upper
43 100
58 31.4 27.5 41.3



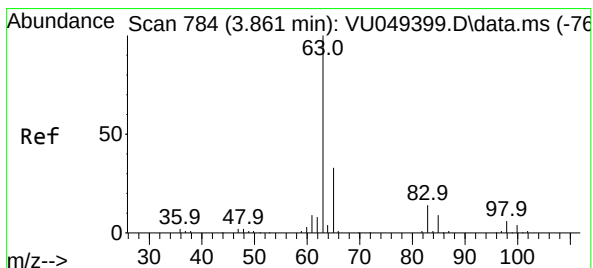
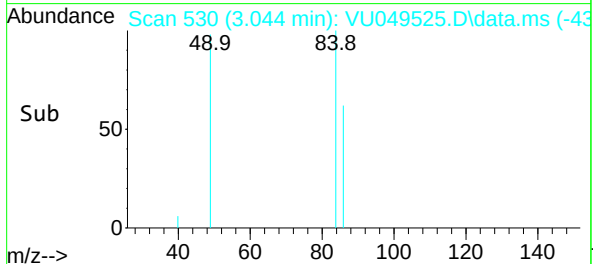
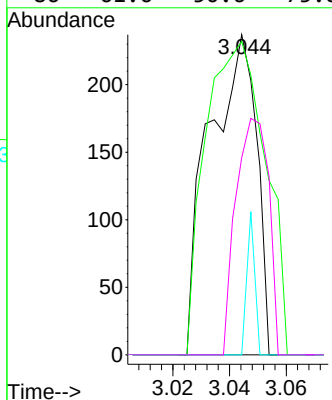


#20
Methylene Chloride
Concen: Below Cal
RT: 3.044 min Scan# 51
Delta R.T. 0.007 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

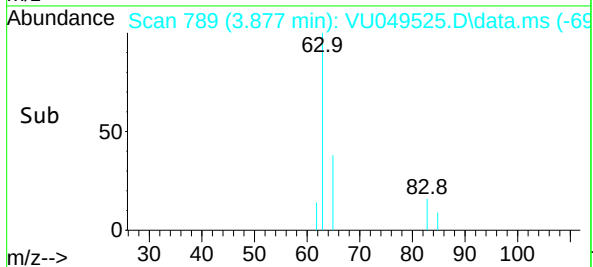
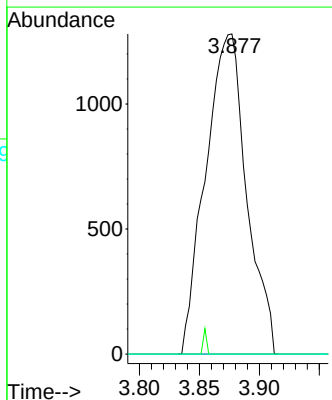
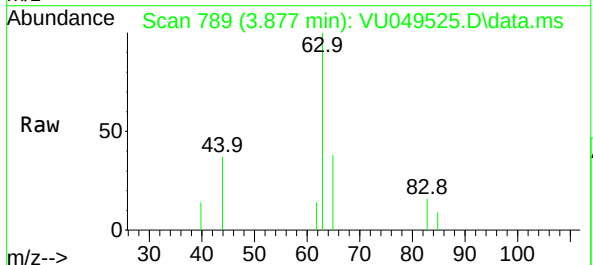


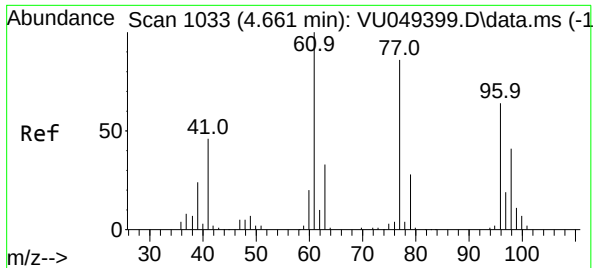
Tgt Ion: 84 Resp: 273
Ion Ratio Lower Upper
84 100
49 97.9 86.6 129.8
51 0.0 26.6 40.0#
86 61.6 50.6 75.8



#24
1,1-Dichloroethane
Concen: 0.481 ug/l
RT: 3.877 min Scan# 789
Delta R.T. 0.016 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 63 Resp: 3039
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.9#
100 0.0 2.4 7.2#

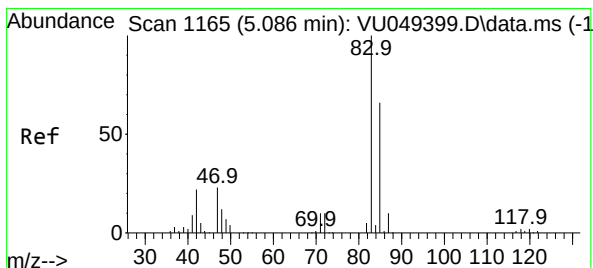
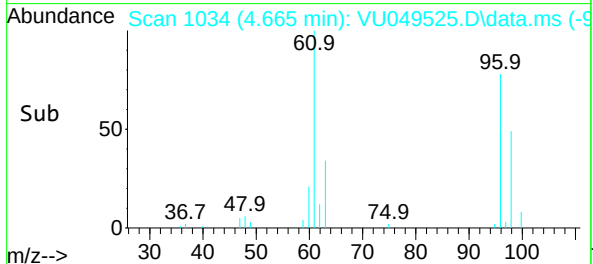
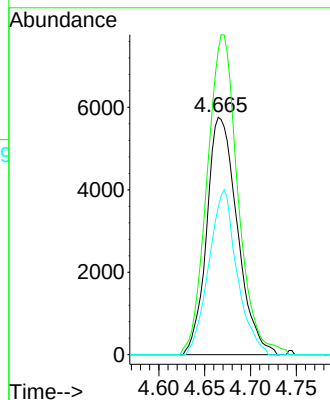
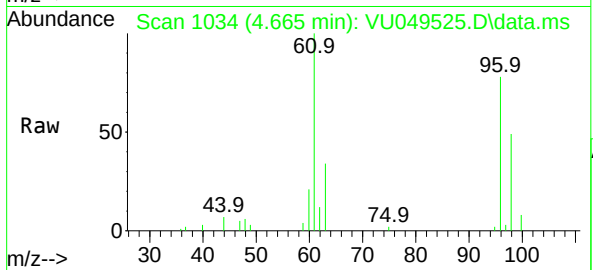




#27
 cis-1,2-Dichloroethene
 Concen: 3.767 ug/l
 RT: 4.665 min Scan# 1103
 Delta R.T. 0.003 min
 Lab File: VU049525.D
 Acq: 29 Jun 2022 19:53

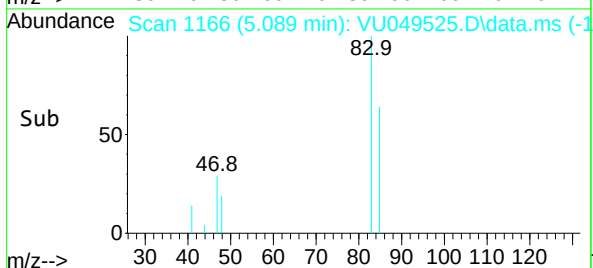
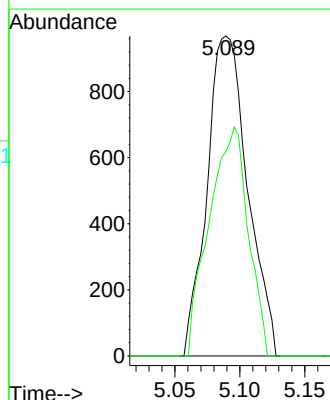
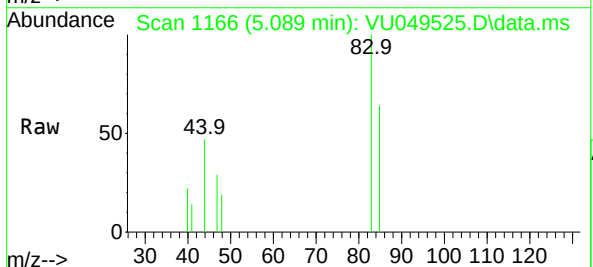
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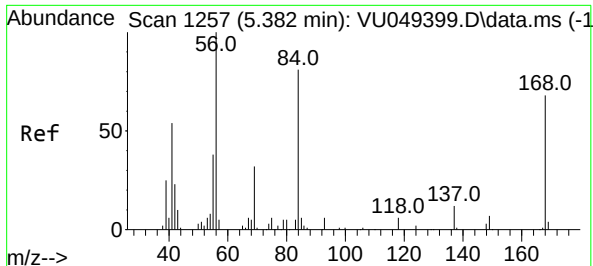
Tgt Ion: 96 Resp: 13368
 Ion Ratio Lower Upper
 96 100
 61 135.5 0.0 271.6
 98 63.9 0.0 128.2



#30
 Chloroform
 Concen: 0.337 ug/l
 RT: 5.089 min Scan# 1166
 Delta R.T. 0.003 min
 Lab File: VU049525.D
 Acq: 29 Jun 2022 19:53

Tgt Ion: 83 Resp: 2107
 Ion Ratio Lower Upper
 83 100
 85 63.8 51.2 76.8





#31

Cyclohexane

Concen: 0.912 ug/l

RT: 5.369 min Scan# 1

Delta R.T. -0.013 min

Lab File: VU049525.D

Acq: 29 Jun 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

DUP03-20220621

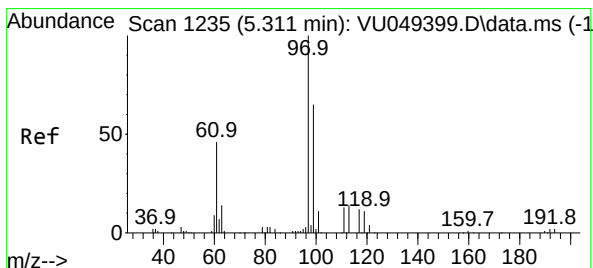
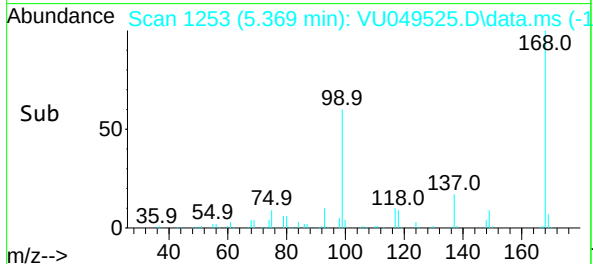
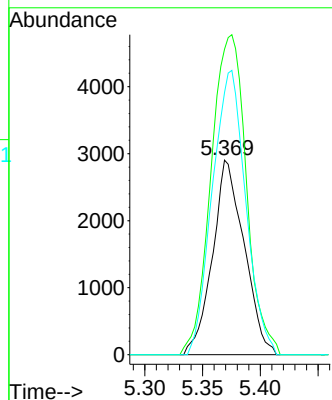
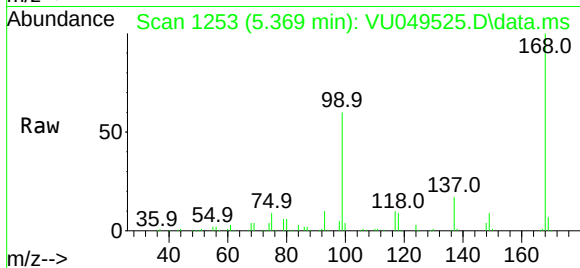
Tgt Ion: 56 Resp: 5535

Ion Ratio Lower Upper

56 100

69 156.9 27.8 41.8#

84 134.6 74.2 111.4#



#32

1,1,1-Trichloroethane

Concen: 0.215 ug/l

RT: 5.321 min Scan# 1238

Delta R.T. 0.010 min

Lab File: VU049525.D

Acq: 29 Jun 2022 19:53

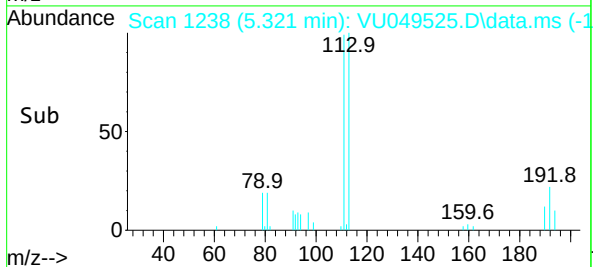
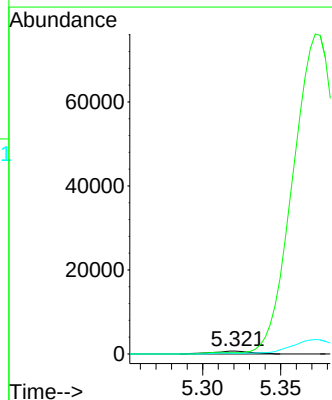
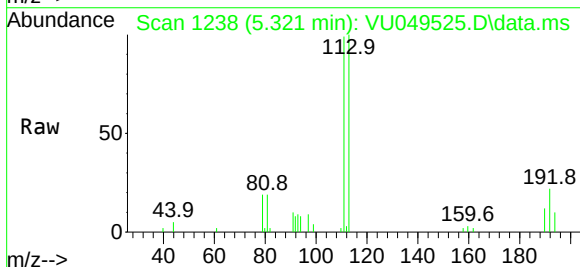
Tgt Ion: 97 Resp: 1166

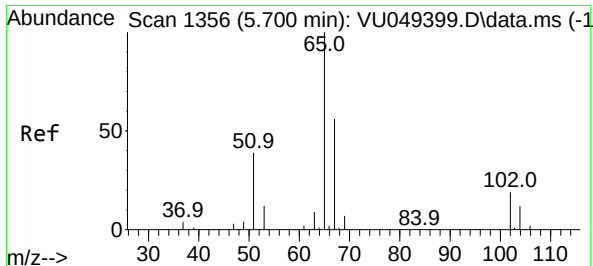
Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6#

61 0.0 35.1 52.7#





#33

1,2-Dichloroethane-d4

Concen: 45.604 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU049525.D

Acq: 29 Jun 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

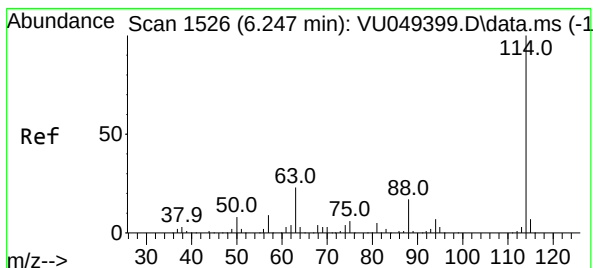
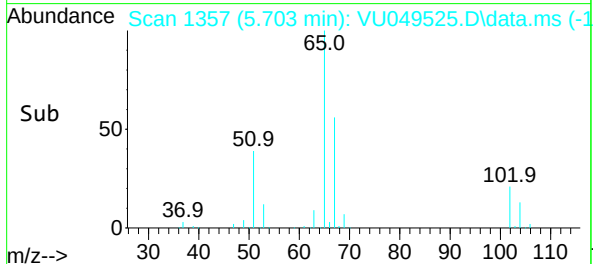
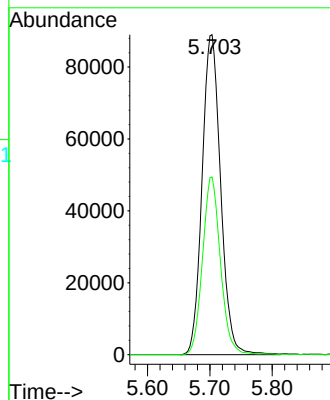
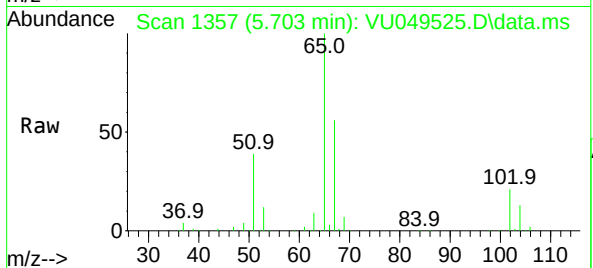
DUP03-20220621

Tgt Ion: 65 Resp: 184253

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. 0.003 min

Lab File: VU049525.D

Acq: 29 Jun 2022 19:53

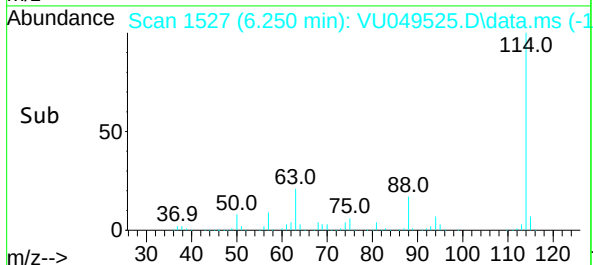
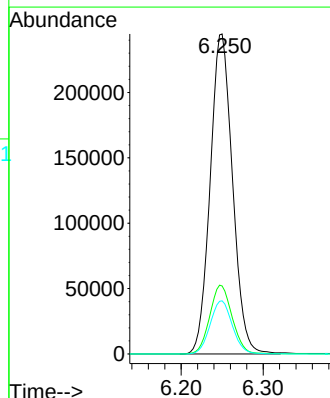
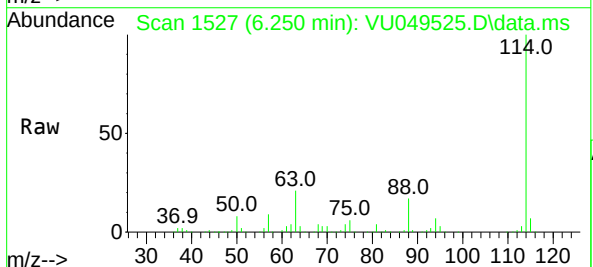
Tgt Ion: 114 Resp: 462855

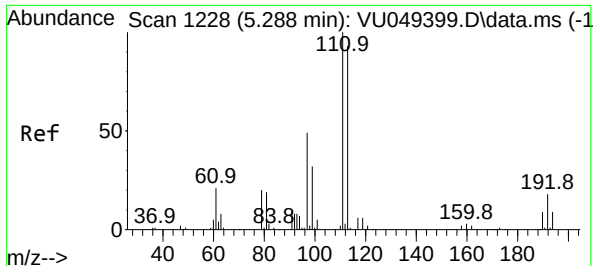
Ion Ratio Lower Upper

114 100

63 21.3 0.0 37.8

88 16.6 0.0 29.2

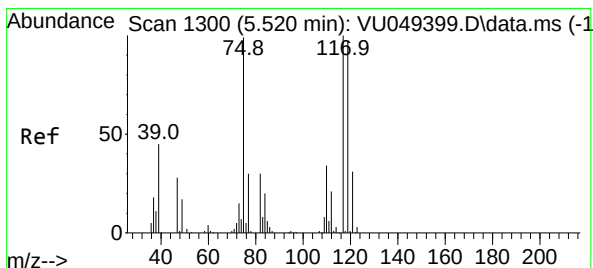
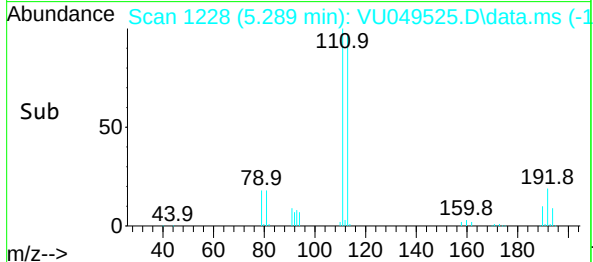
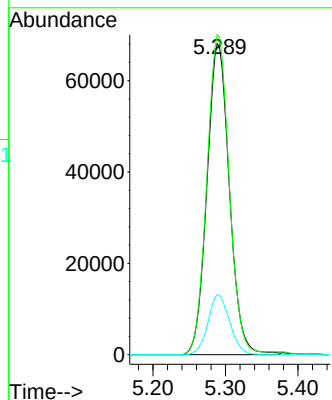
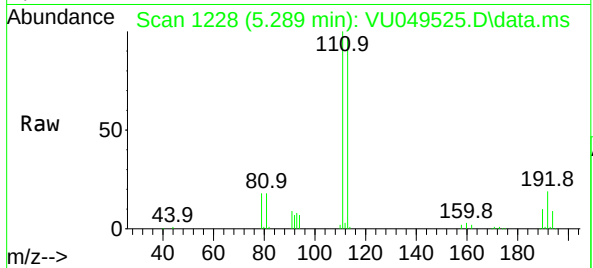




#35
Dibromofluoromethane
Concen: 45.232 ug/l
RT: 5.289 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

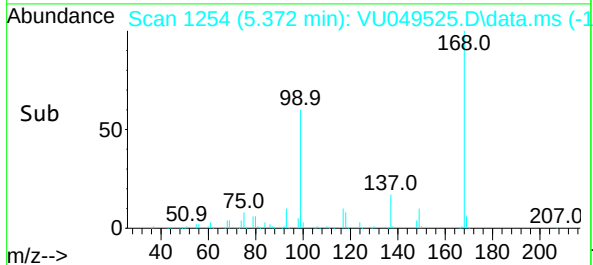
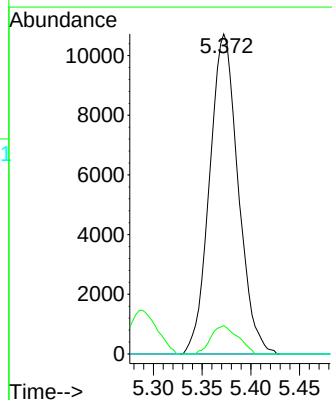
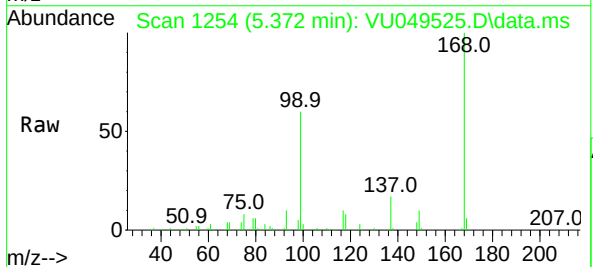
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

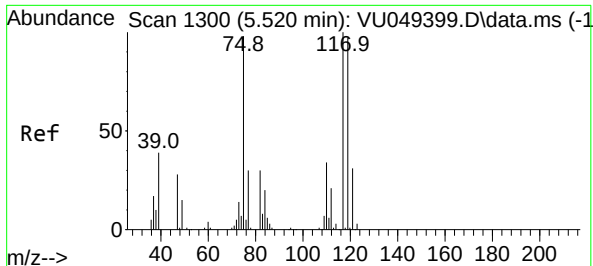
Tgt Ion:113 Resp: 146474
Ion Ratio Lower Upper
113 100
111 102.4 82.1 123.1
192 18.7 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.662 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.148 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 75 Resp: 21889
Ion Ratio Lower Upper
75 100
110 8.4 18.4 55.2#
77 0.0 25.1 37.7#

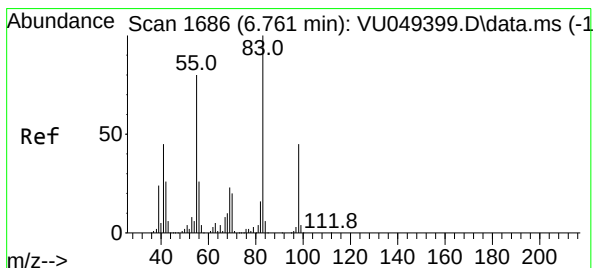
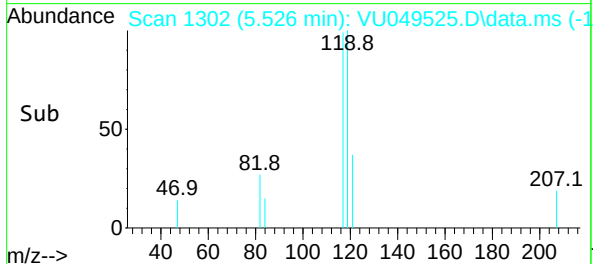
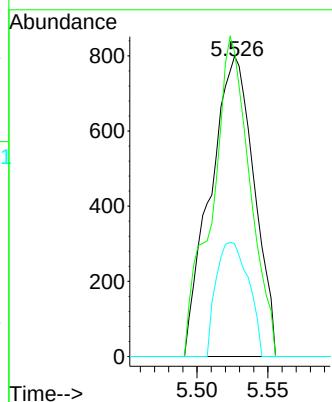
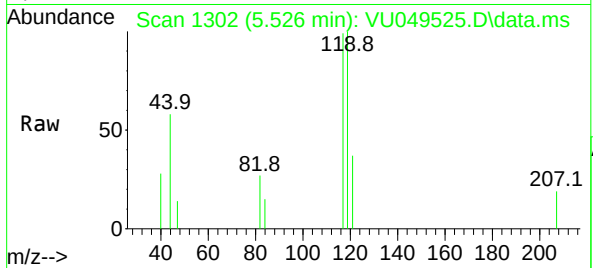




#38
Carbon Tetrachloride
Concen: 0.349 ug/l
RT: 5.526 min Scan# 11
Delta R.T. 0.007 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

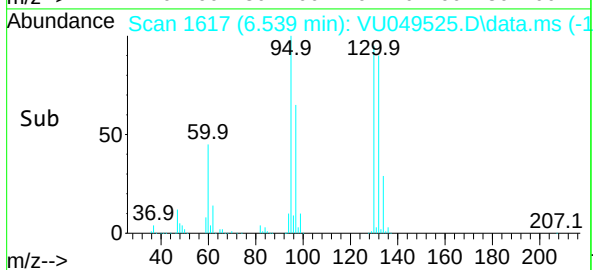
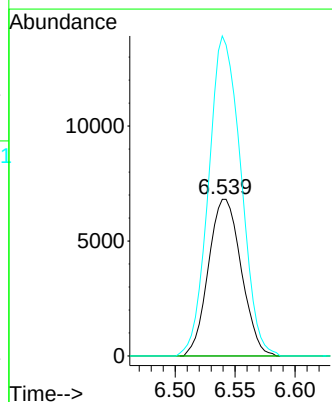
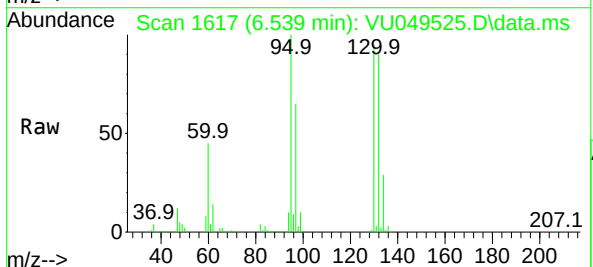
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

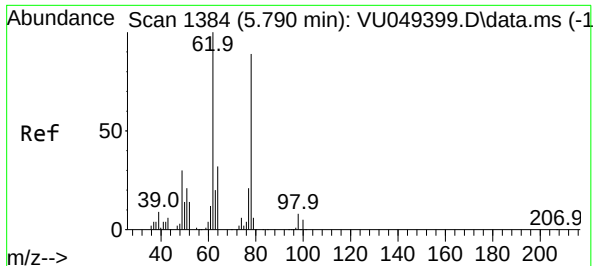
Tgt Ion:117 Resp: 1718
Ion Ratio Lower Upper
117 100
119 101.5 76.8 115.2
121 37.5 24.7 37.1#



#39
Methylcyclohexane
Concen: 2.307 ug/l
RT: 6.539 min Scan# 1617
Delta R.T. -0.222 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 83 Resp: 12984
Ion Ratio Lower Upper
83 100
55 0.0 55.3 82.9#
98 204.2 37.3 55.9#





#42

1,2-Dichloroethane

Concen: 0.209 ug/l

RT: 5.800 min Scan# 11

Delta R.T. 0.010 min

Lab File: VU049525.D

Acq: 29 Jun 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

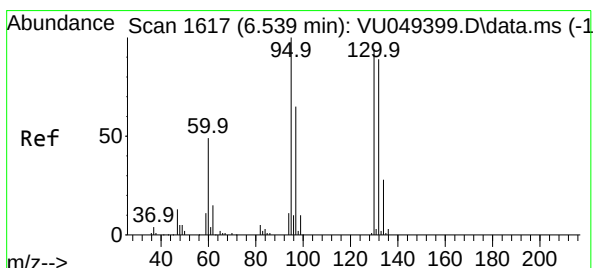
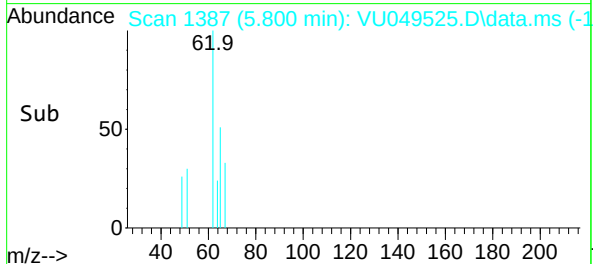
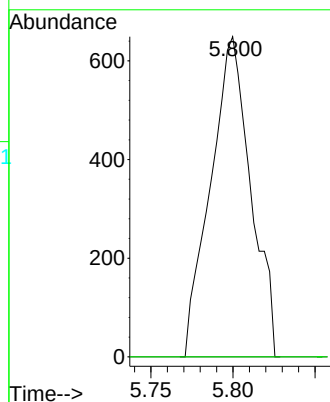
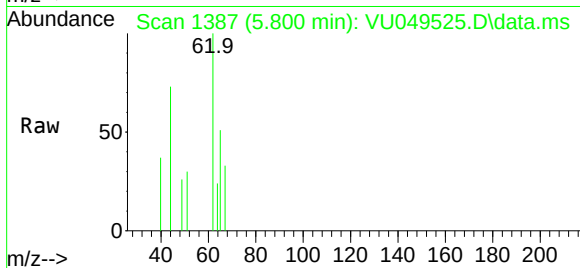
DUP03-20220621

Tgt Ion: 62 Resp: 1104

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#44

Trichloroethene

Concen: 297.107 ug/l

RT: 6.543 min Scan# 1618

Delta R.T. 0.003 min

Lab File: VU049525.D

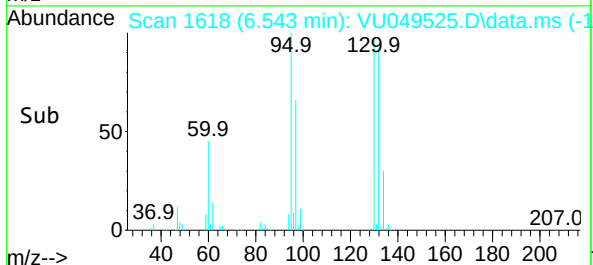
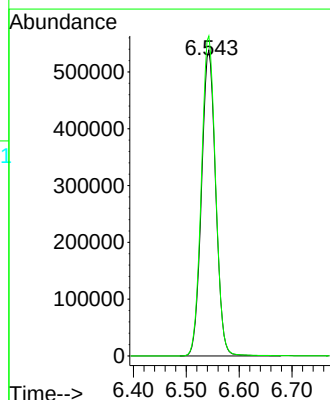
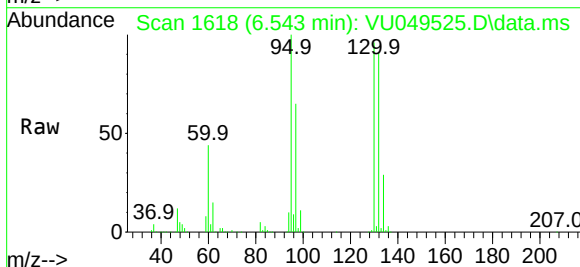
Acq: 29 Jun 2022 19:53

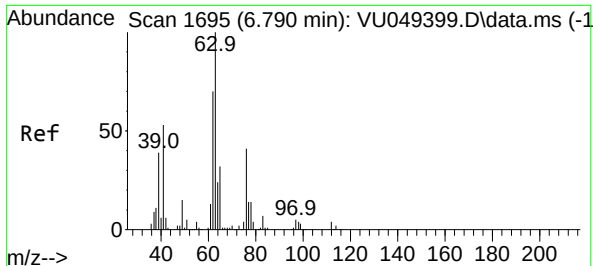
Tgt Ion:130 Resp: 1001247

Ion Ratio Lower Upper

130 100

95 104.7 0.0 184.6





#45

1,2-Dichloropropane

Concen: 0.863 ug/l

RT: 6.539 min Scan# 1

Delta R.T. -0.251 min

Lab File: VU049525.D

Acq: 29 Jun 2022 19:53

Instrument :

MSVOA_U

ClientSampleId :

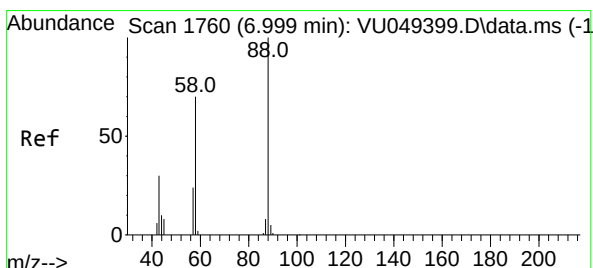
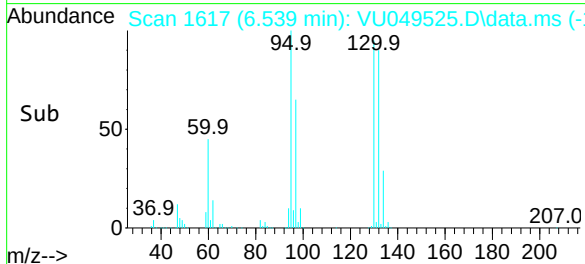
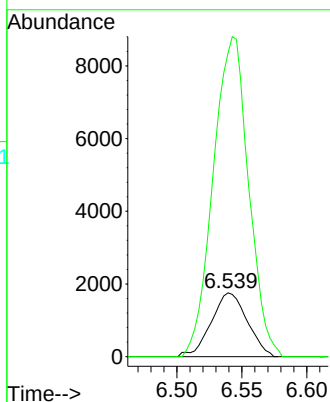
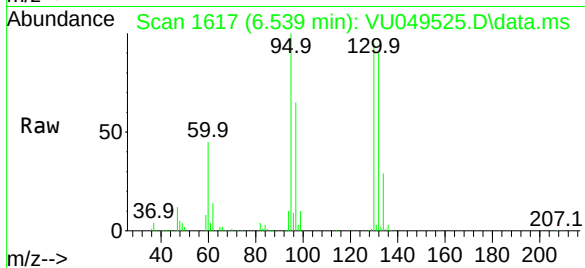
DUP03-20220621

Tgt Ion: 63 Resp: 3390

Ion Ratio Lower Upper

63 100

65 476.0 25.0 37.4#



#49

1,4-Dioxane

Concen: 27.499 ug/l

RT: 6.980 min Scan# 1754

Delta R.T. -0.019 min

Lab File: VU049525.D

Acq: 29 Jun 2022 19:53

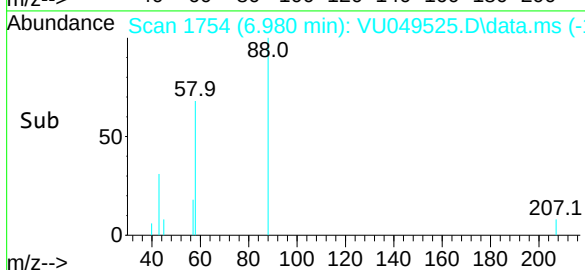
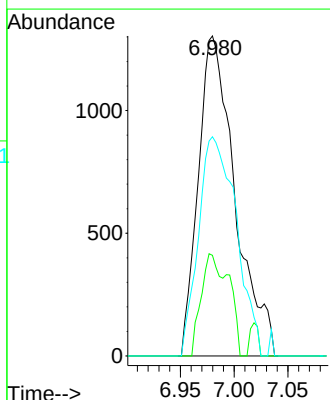
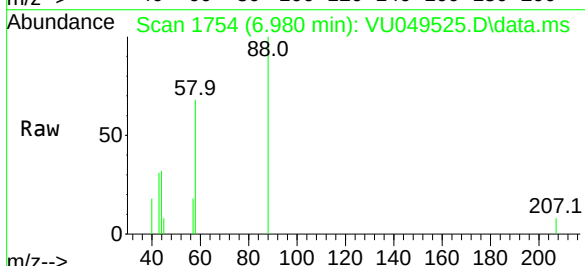
Tgt Ion: 88 Resp: 3104

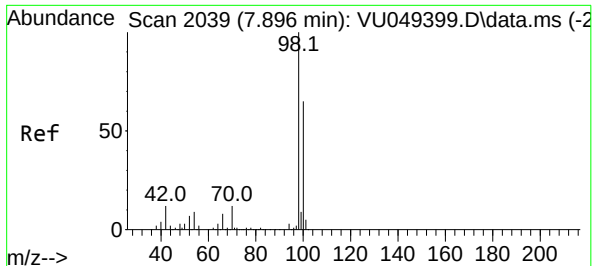
Ion Ratio Lower Upper

88 100

43 23.8 0.0 0.0#

58 70.2 15.4 23.0#

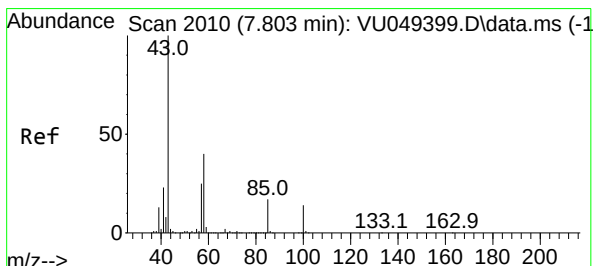
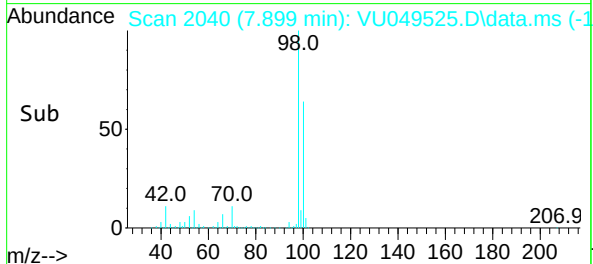
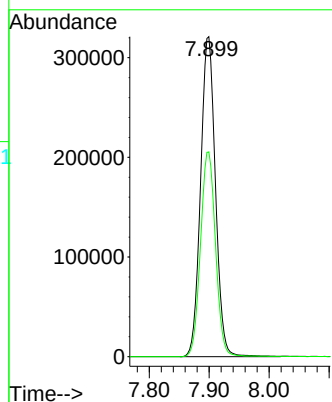
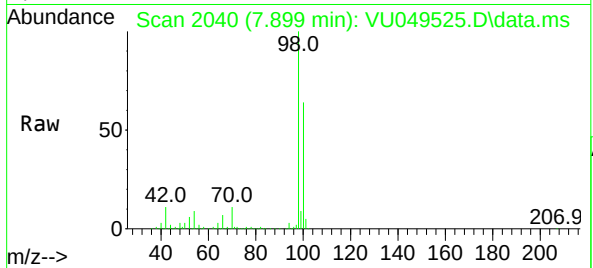




#50
Toluene-d8
Concen: 48.024 ug/l
RT: 7.899 min Scan# 2039
Delta R.T. 0.003 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

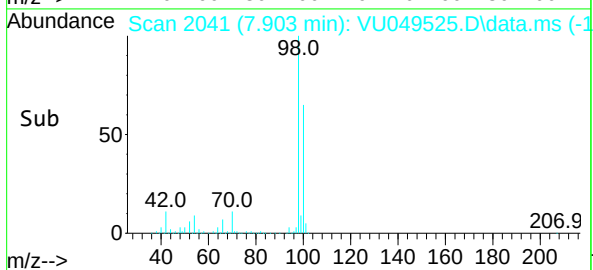
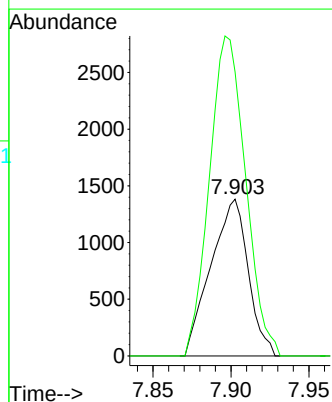
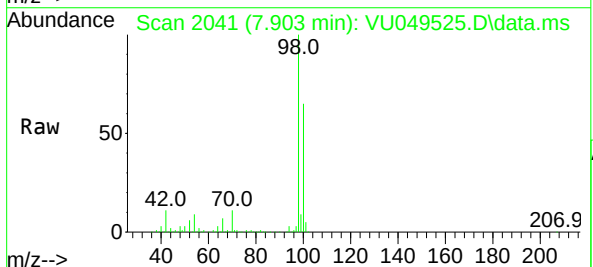
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

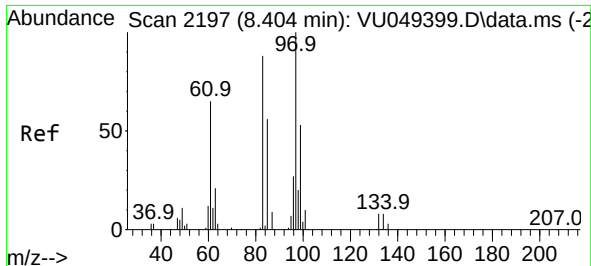
Tgt Ion: 98 Resp: 554675
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.366 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.100 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 43 Resp: 2304
Ion Ratio Lower Upper
43 100
58 197.6 34.7 52.1#

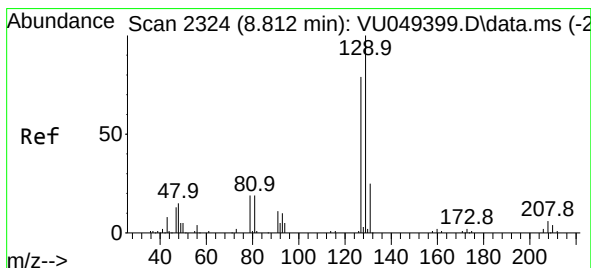
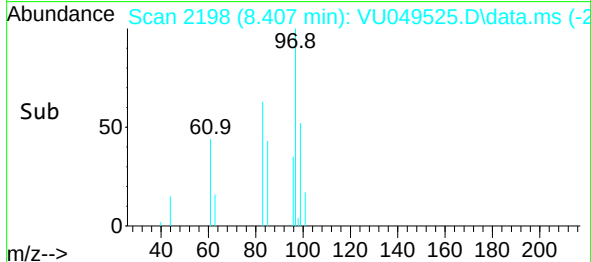
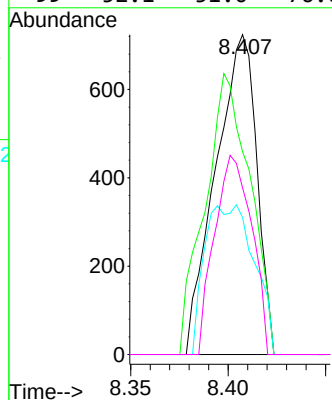
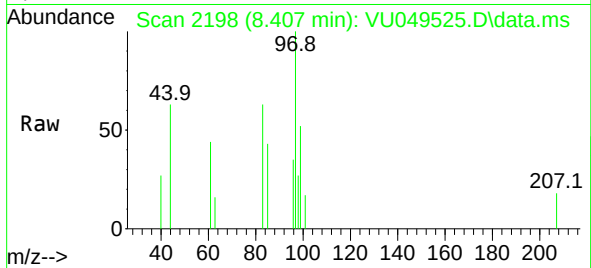




#55
1,1,2-Trichloroethane
Concen: 0.305 ug/l
RT: 8.407 min Scan# 2197
Delta R.T. 0.003 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

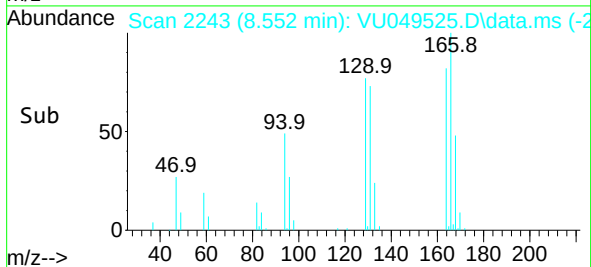
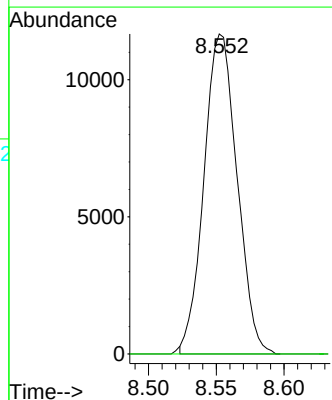
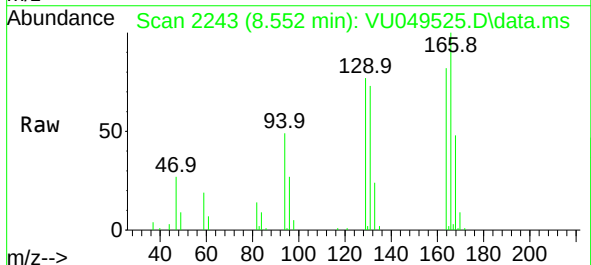
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

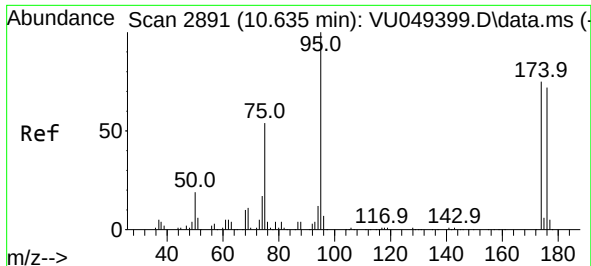
Tgt Ion: 97	Resp:	1063
Ion	Ratio	Lower Upper
97	100	
83	63.4	70.2 105.4#
85	42.8	44.6 66.8#
99	52.1	51.0 76.6



#60
Dibromochloromethane
Concen: 5.472 ug/l
RT: 8.552 min Scan# 2243
Delta R.T. -0.260 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 129	Resp:	19824
Ion	Ratio	Lower Upper
129	100	
127	0.0	38.6 116.0#

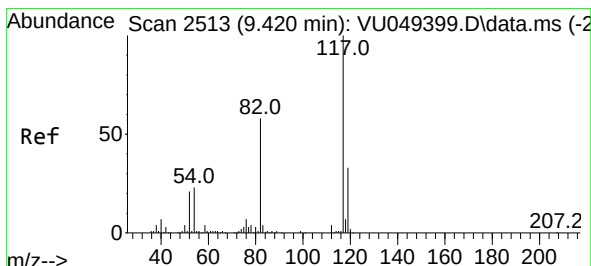
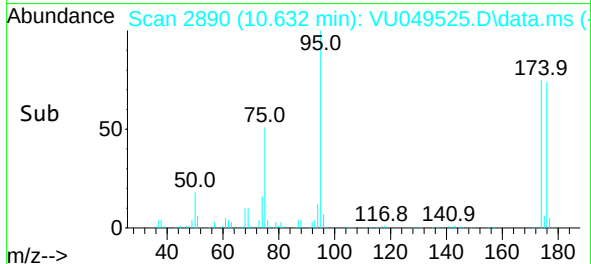
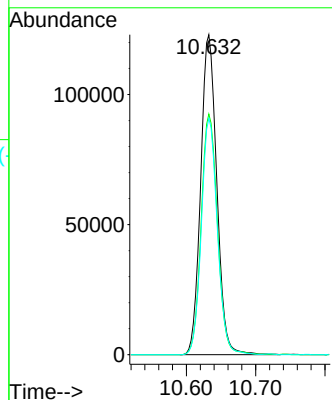
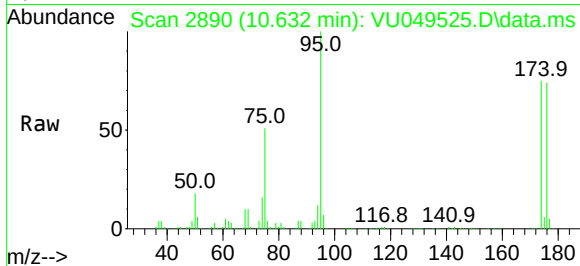




#62
4-Bromofluorobenzene
Concen: 44.818 ug/l
RT: 10.632 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

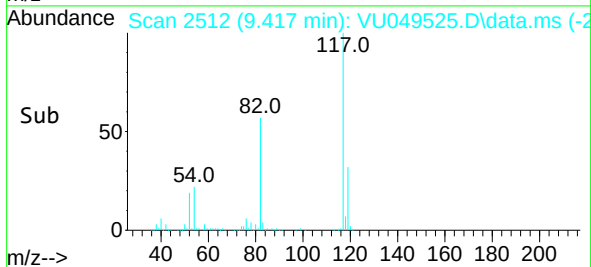
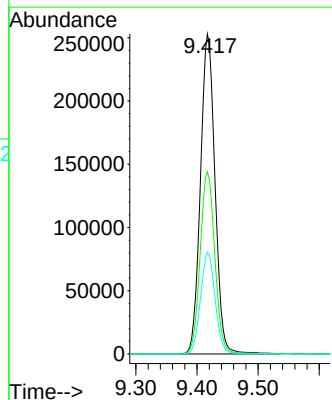
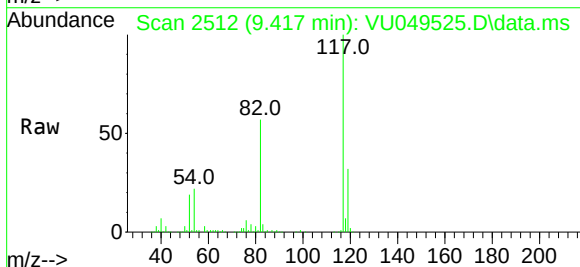
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

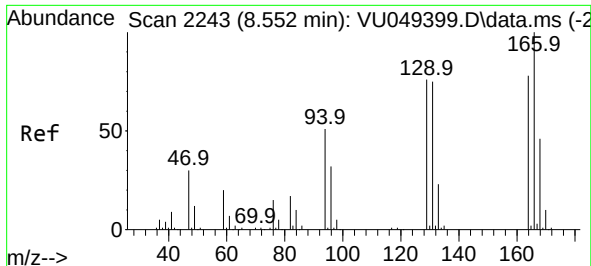
Tgt Ion: 95 Resp: 198294
Ion Ratio Lower Upper
95 100
174 76.1 0.0 182.0
176 73.4 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.003 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

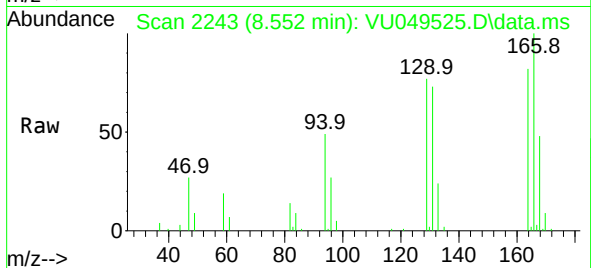
Tgt Ion: 117 Resp: 418921
Ion Ratio Lower Upper
117 100
82 57.0 41.7 62.5
119 31.8 25.7 38.5



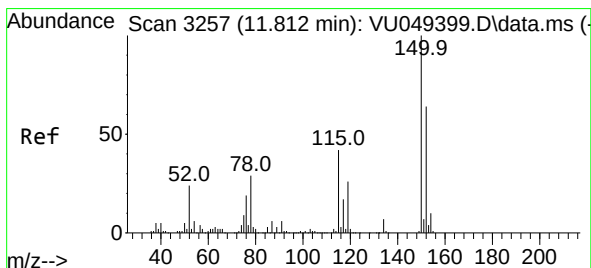
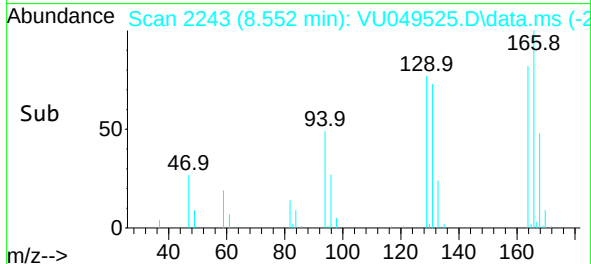
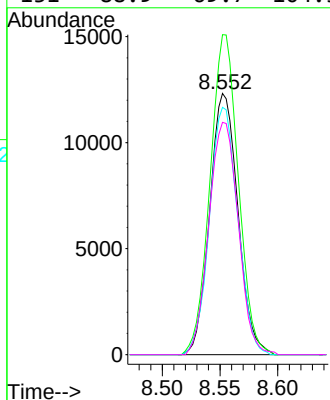


#64
Tetrachloroethene
Concen: 7.808 ug/l
RT: 8.552 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

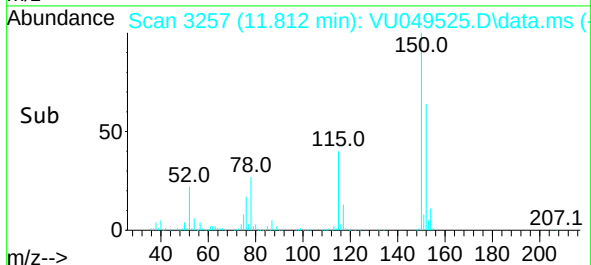
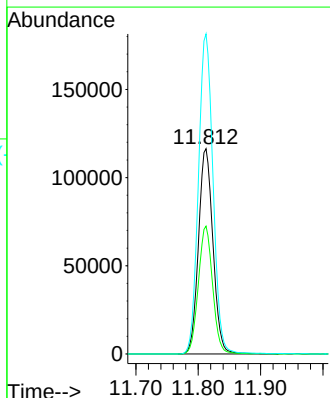
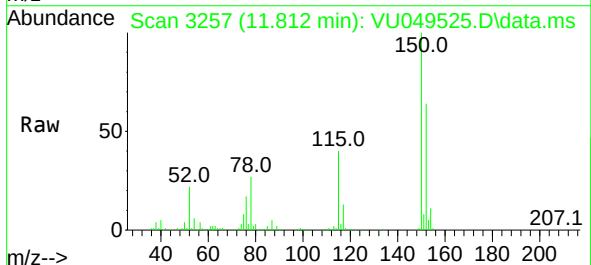


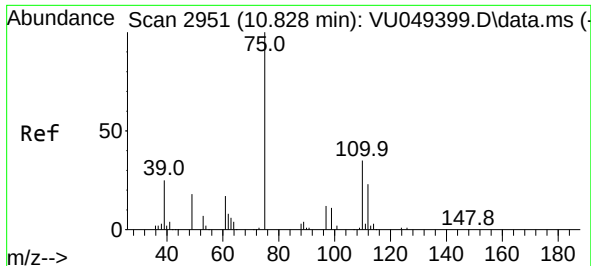
Tgt Ion:164 Resp: 20979
Ion Ratio Lower Upper
164 100
166 122.5 100.0 150.0
129 94.7 72.0 108.0
131 88.9 69.7 104.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. 0.000 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion:152 Resp: 188221
Ion Ratio Lower Upper
152 100
115 61.2 37.0 110.9
150 156.7 0.0 342.2

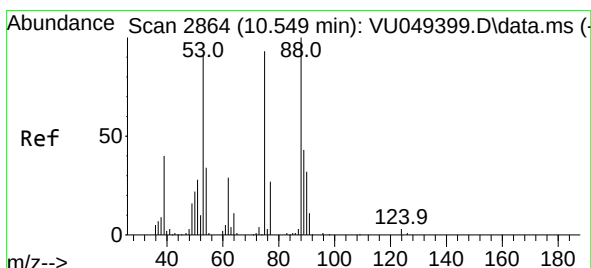
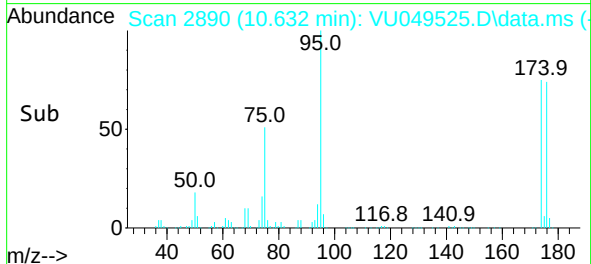
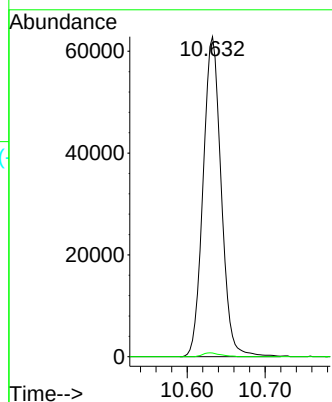
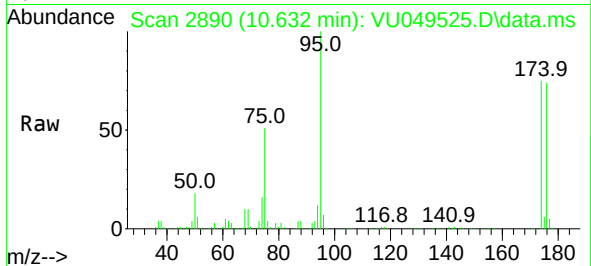




#76
1,2,3-Trichloropropane
Concen: 15.934 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.196 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

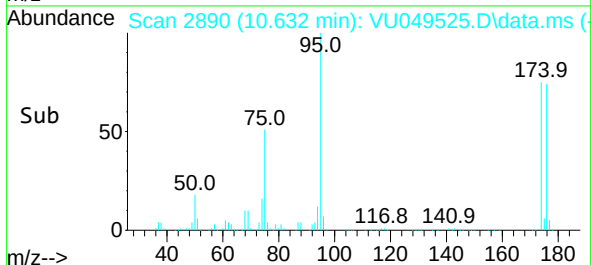
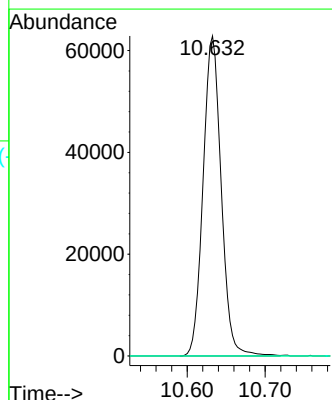
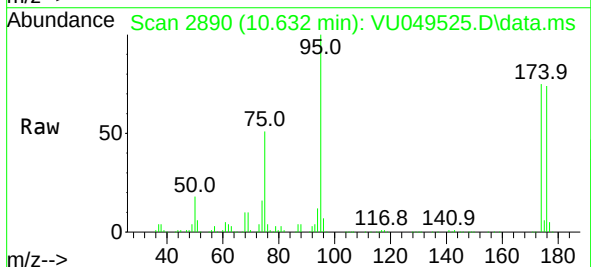
Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

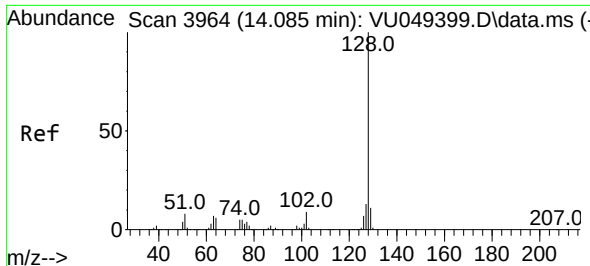
Tgt Ion: 75 Resp: 101664
Ion Ratio Lower Upper
75 100
77 1.2 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.840 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.084 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion: 75 Resp: 101664
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#

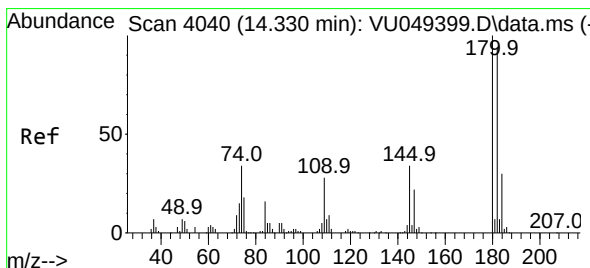
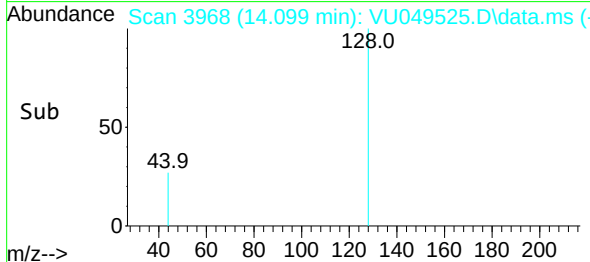
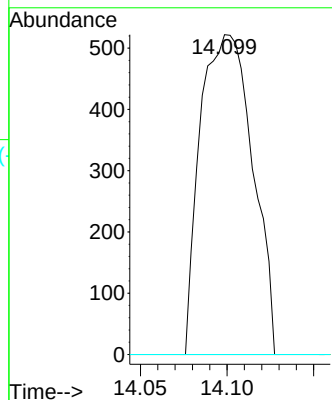
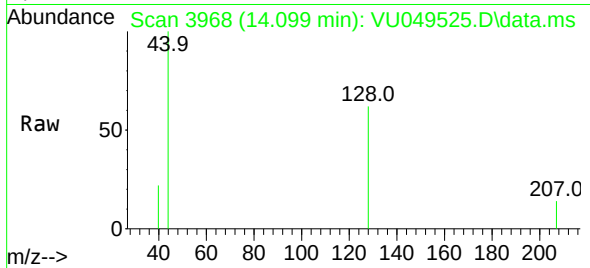




#95
Naphthalene
Concen: 1.808 ug/l
RT: 14.099 min Scan# 3964
Delta R.T. 0.013 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Instrument :
MSVOA_U
ClientSampleId :
DUP03-20220621

Tgt Ion:128 Resp: 1096
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.182 ug/l
RT: 14.340 min Scan# 4043
Delta R.T. 0.010 min
Lab File: VU049525.D
Acq: 29 Jun 2022 19:53

Tgt Ion:180 Resp: 20
Ion Ratio Lower Upper
180 100
182 0.0 48.4 145.0#
145 0.0 14.8 44.4#

