

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062922\
 Data File : VU049522.D
 Acq On : 29 Jun 2022 18:42
 Operator : SY/MD
 Sample : N3457-11
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 30 00:49:48 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)

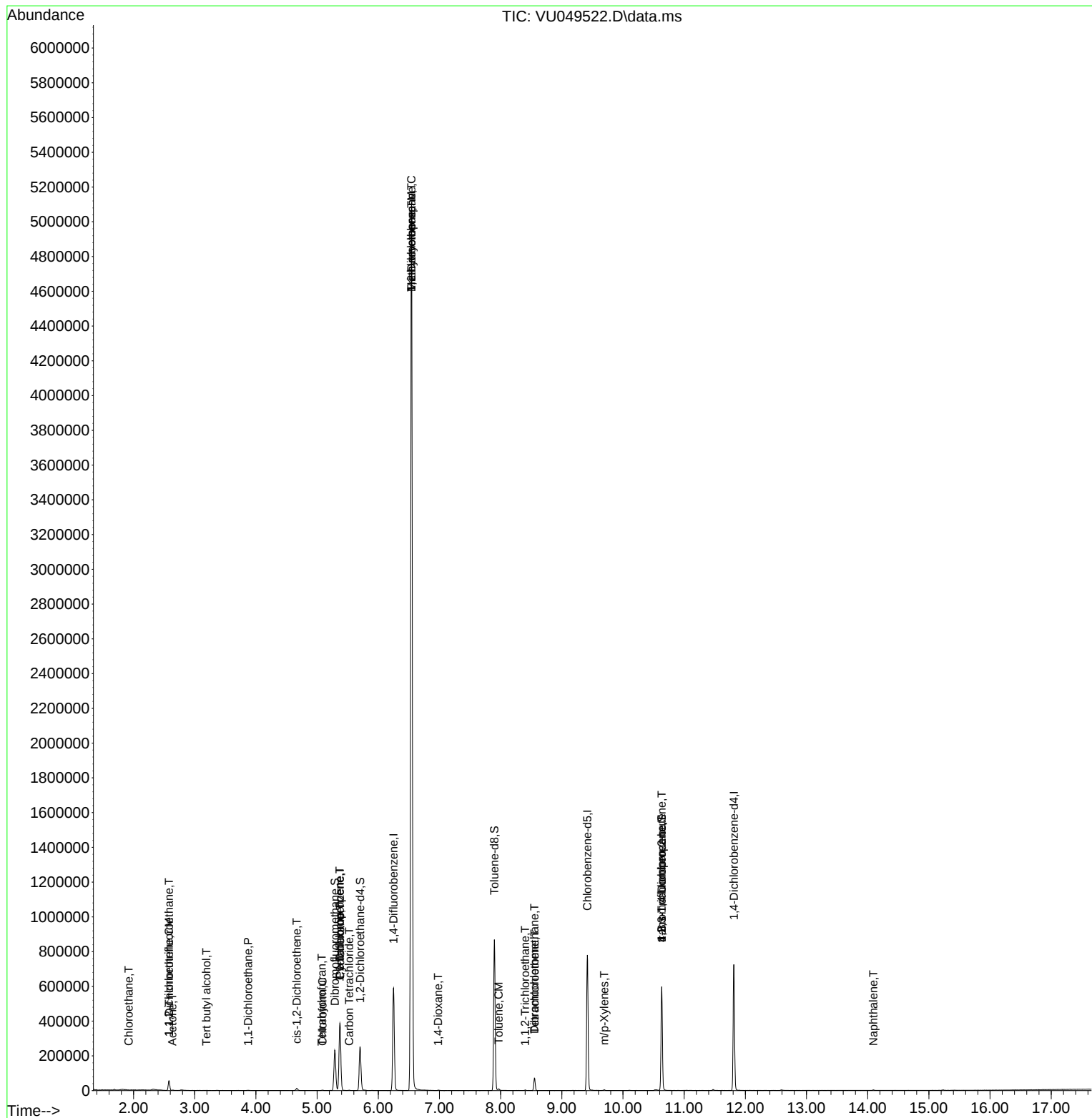
Internal Standards						
1) Pentafluorobenzene	5.372	168	268139	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.250	114	475319	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	427018	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.813	152	193723	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	187192	45.330	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	90.660%
35) Dibromofluoromethane	5.289	113	150108	45.139	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.280%
50) Toluene-d8	7.896	98	568026	47.890	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.780%
62) 4-Bromofluorobenzene	10.633	95	200728	44.179	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	88.360%
Target Compounds						
						Qvalue
3) Chloromethane	1.517	50	1124	Below Cal		93
6) Chloroethane	1.919	64	40	1.935	ug/l #	44
9) 1,1,2-Trichlorotrifluo...	2.578	101	15608	5.247	ug/l	94
11) Tert butyl alcohol	3.189	59	442	0.457	ug/l #	37
12) 1,1-Dichloroethene	2.578	96	5756	1.976	ug/l	89
16) Acetone	2.633	43	1745	0.838	ug/l	98
20) Methylene Chloride	3.048	84	20	Below Cal	#	45
24) 1,1-Dichloroethane	3.871	63	2137	0.331	ug/l #	82
27) cis-1,2-Dichloroethene	4.668	96	6463	1.782	ug/l	99
29) Tetrahydrofuran	5.076	42	679	0.317	ug/l #	47
30) Chloroform	5.089	83	1888	0.296	ug/l	96
31) Cyclohexane	5.375	56	5746	0.927	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	21789	4.519	ug/l #	48
38) Carbon Tetrachloride	5.523	117	1140	0.225	ug/l #	88
39) Methylcyclohexane	6.543	83	21788	3.770	ug/l #	1
44) Trichloroethene	6.543	130	1699833	491.177	ug/l	85
45) 1,2-Dichloropropane	6.539	63	5990	1.485	ug/l #	1
49) 1,4-Dioxane	6.977	88	2330	20.101	ug/l #	1
52) Toluene	7.967	92	3219	0.372	ug/l	94
55) 1,1,2-Trichloroethane	8.401	97	891	0.249	ug/l	89
60) Dibromochloromethane	8.552	129	15821	4.253	ug/l #	11
64) Tetrachloroethene	8.555	164	15690	5.729	ug/l	91
68) m/p-Xylenes	9.694	106	1619	0.273	ug/l	99
76) 1,2,3-Trichloropropane	10.633	75	103348	15.737	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.633	75	103348	58.116	ug/l #	15
95) Naphthalene	14.092	128	3340	1.949	ug/l #	92

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

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QLast Update : Tue Jun 28 10:35:43 2022
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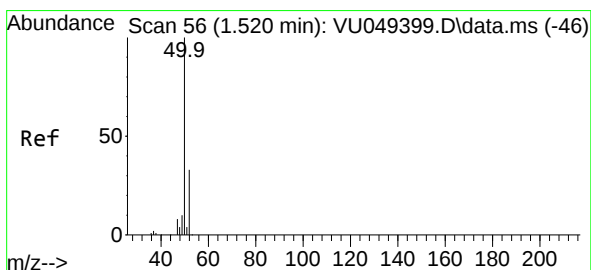
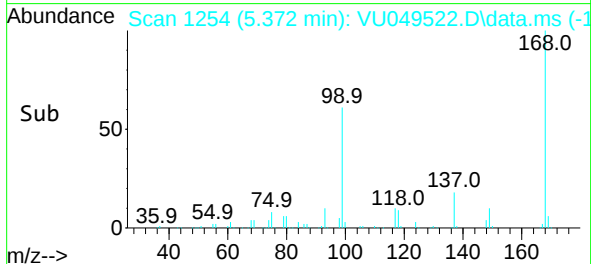
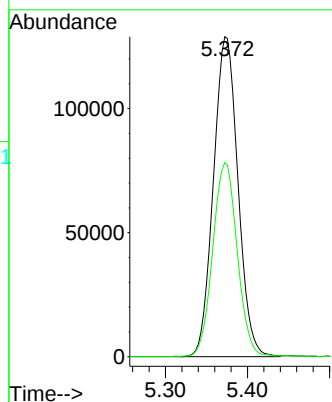
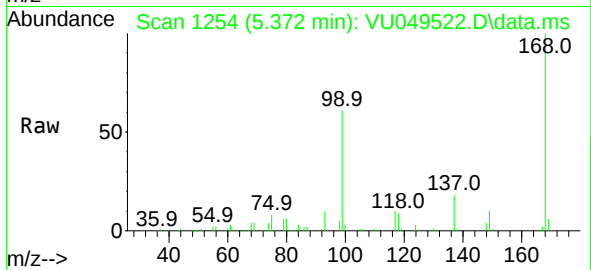




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

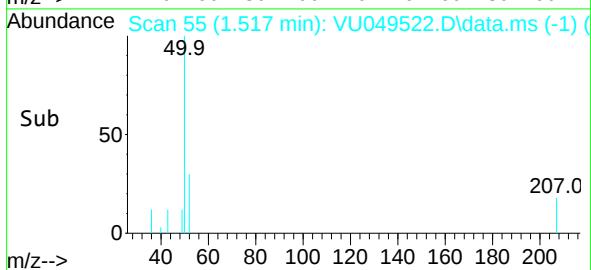
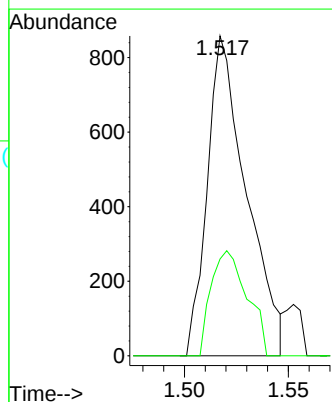
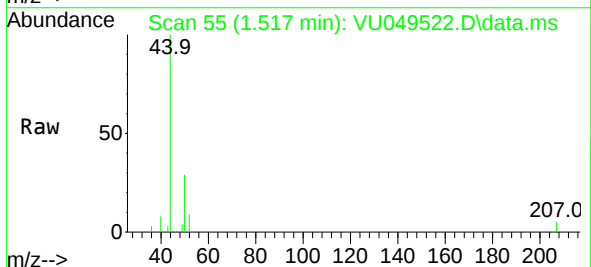
Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:168 Resp: 268139
Ion Ratio Lower Upper
168 100
99 60.6 39.3 58.9#



#3
Chloromethane
Concen: Below Cal
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

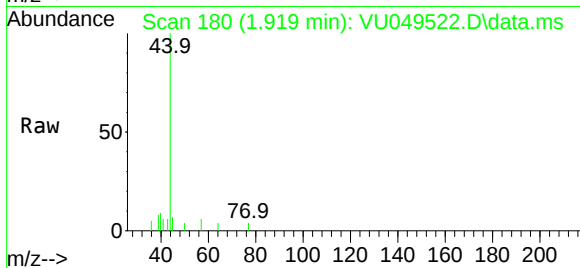
Tgt Ion: 50 Resp: 1124
Ion Ratio Lower Upper
50 100
52 30.3 27.4 41.2



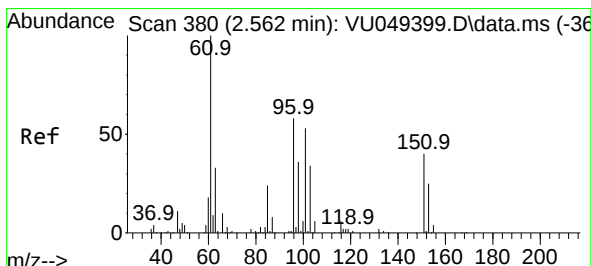
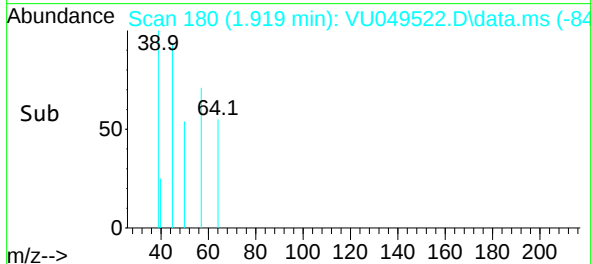
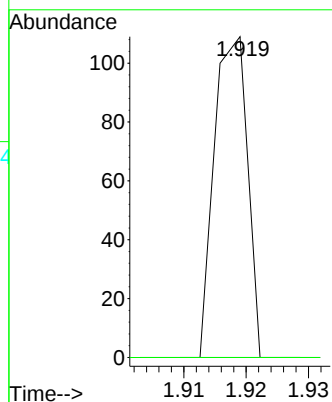


#6
Chloroethane
Concen: 1.935 ug/l
RT: 1.919 min Scan# 11
Delta R.T. 0.010 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Instrument :
MSVOA_U
ClientSampleId :

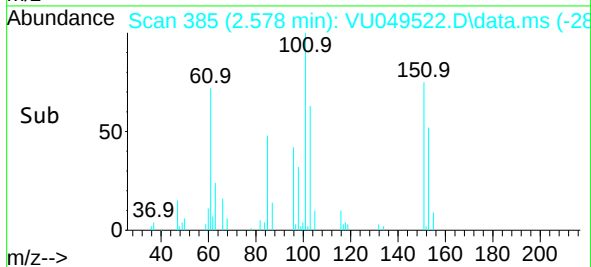
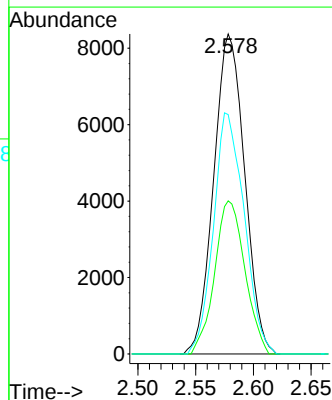
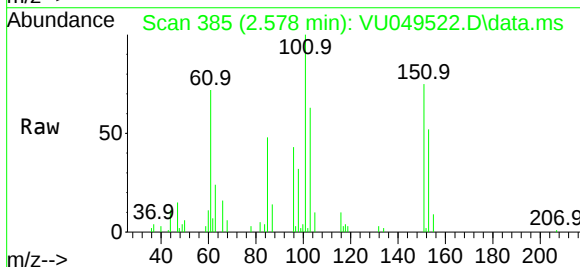


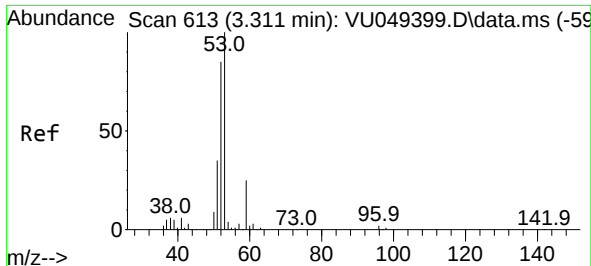
Tgt Ion: 64 Resp: 40
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.247 ug/l
RT: 2.578 min Scan# 385
Delta R.T. 0.016 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

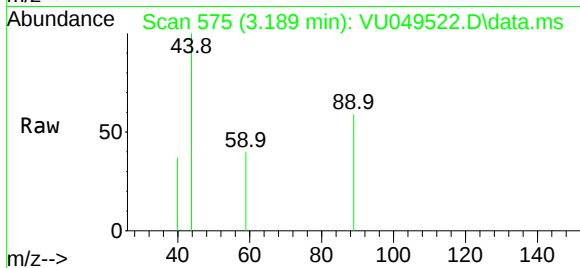
Tgt Ion: 101 Resp: 15608
Ion Ratio Lower Upper
101 100
85 46.7 33.9 50.9
151 74.8 64.0 96.0



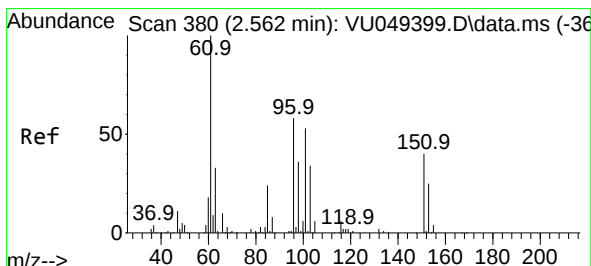
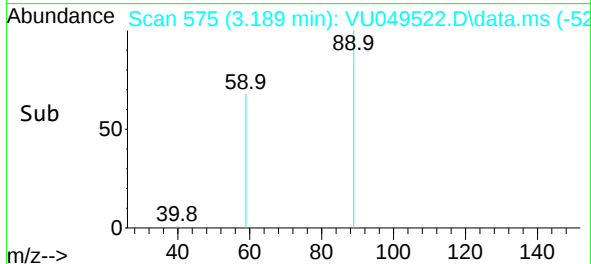
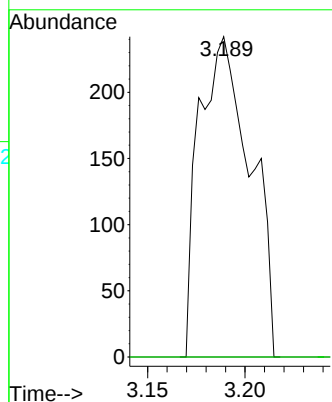


#11
Tert butyl alcohol
Concen: 0.457 ug/l
RT: 3.189 min Scan# 51
Delta R.T. -0.122 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Instrument :
MSVOA_U
ClientSampleId :

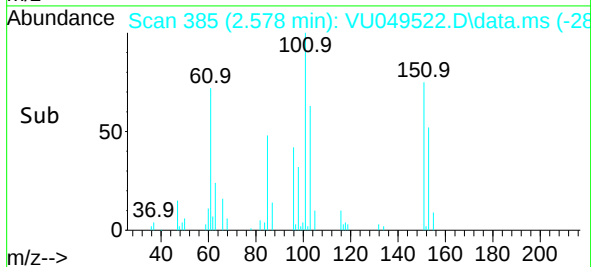
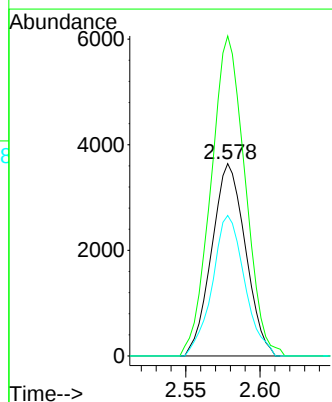
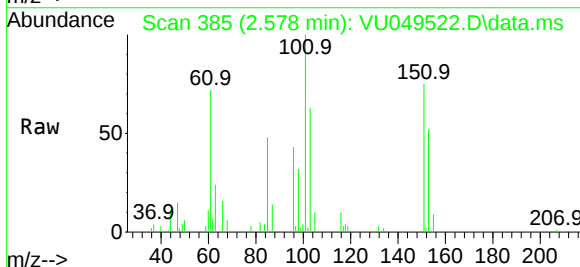


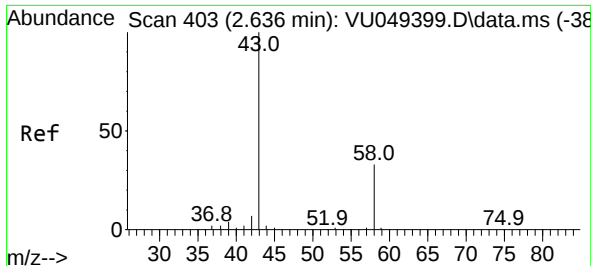
Tgt Ion: 59 Resp: 442
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#



#12
1,1-Dichloroethene
Concen: 1.976 ug/l
RT: 2.578 min Scan# 385
Delta R.T. 0.016 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Tgt Ion: 96 Resp: 5756
Ion Ratio Lower Upper
96 100
61 166.5 122.2 183.2
98 73.1 50.7 76.1

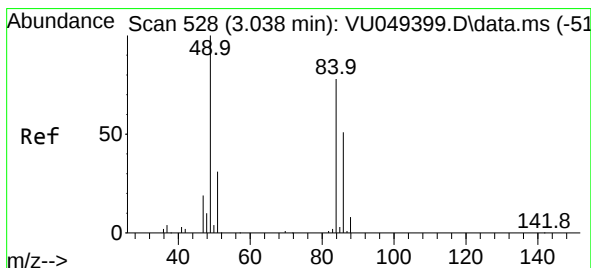
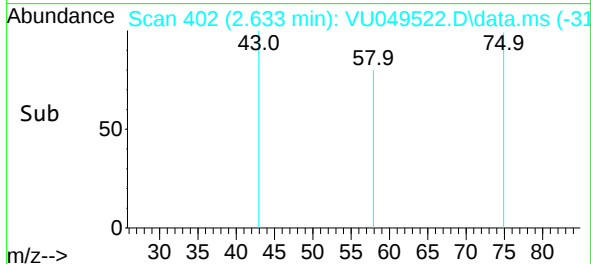
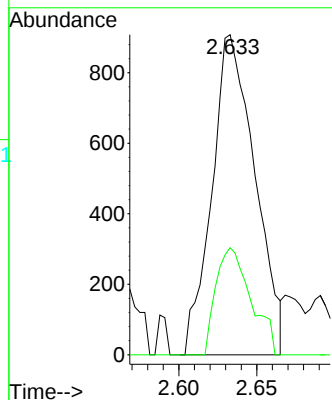
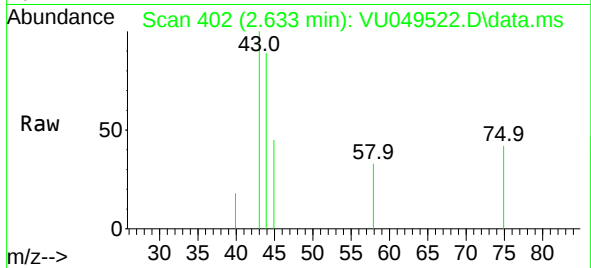




#16
Acetone
Concen: 0.838 ug/l
RT: 2.633 min Scan# 40
Delta R.T. -0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

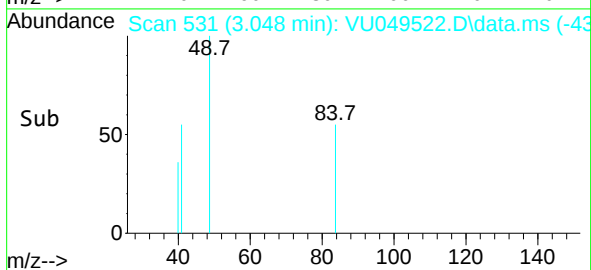
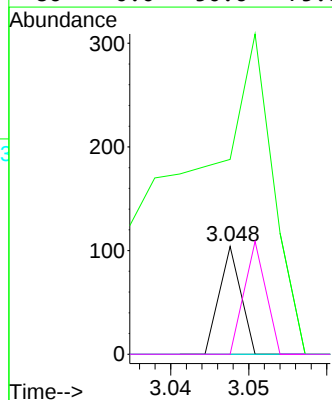
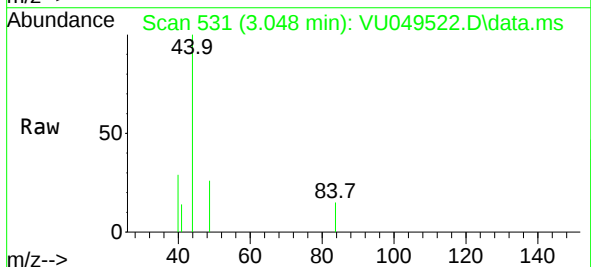
Instrument :
MSVOA_U
ClientSampleId :

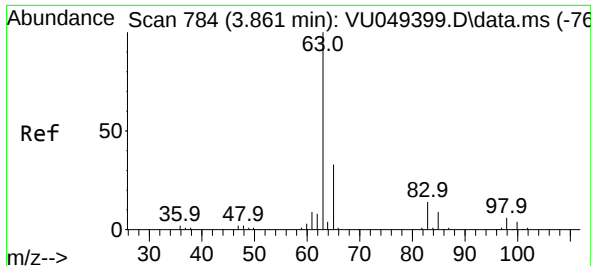
Tgt Ion: 43 Resp: 1745
Ion Ratio Lower Upper
43 100
58 33.5 27.5 41.3



#20
Methylene Chloride
Concen: Below Cal
RT: 3.048 min Scan# 531
Delta R.T. 0.010 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Tgt Ion: 84 Resp: 20
Ion Ratio Lower Upper
84 100
49 68.3 86.6 129.8#
51 0.0 26.6 40.0#
86 0.0 50.6 75.8#





#24

1,1-Dichloroethane

Concen: 0.331 ug/l

RT: 3.871 min Scan# 71

Delta R.T. 0.010 min

Lab File: VU049522.D

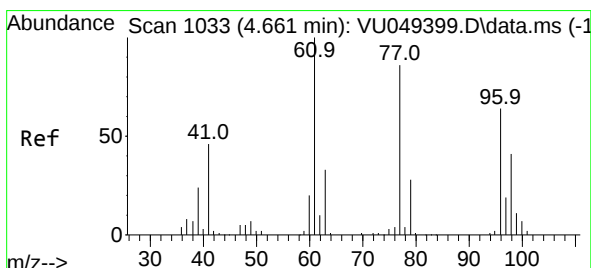
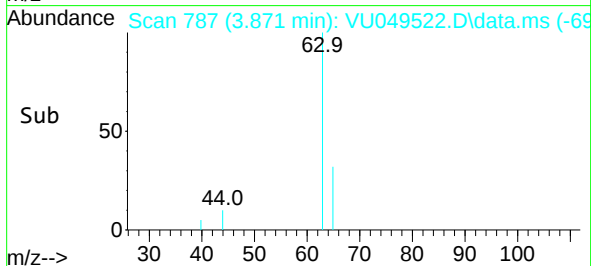
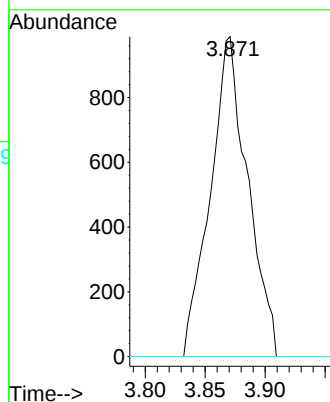
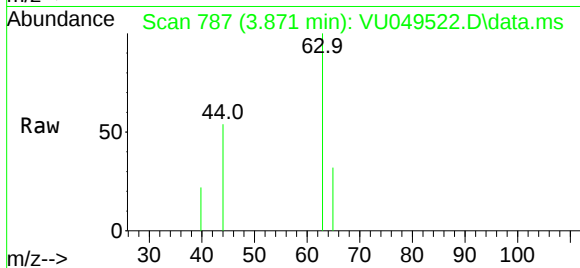
Acq: 29 Jun 2022 18:42

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63	Resp: 2137
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: 1.782 ug/l

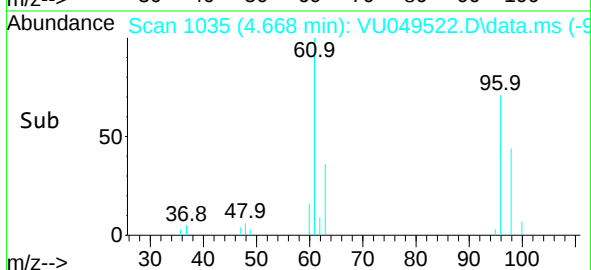
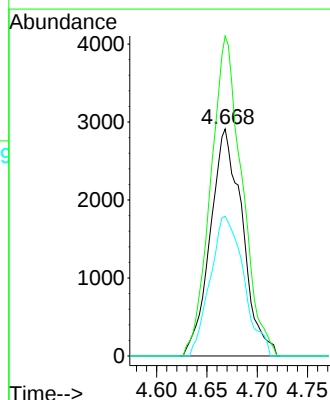
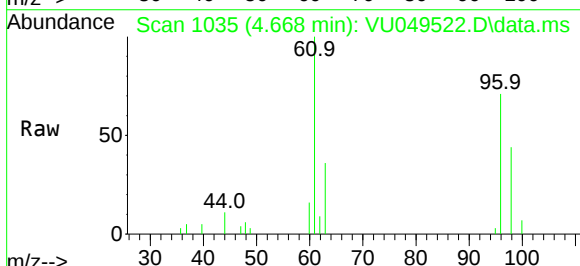
RT: 4.668 min Scan# 1035

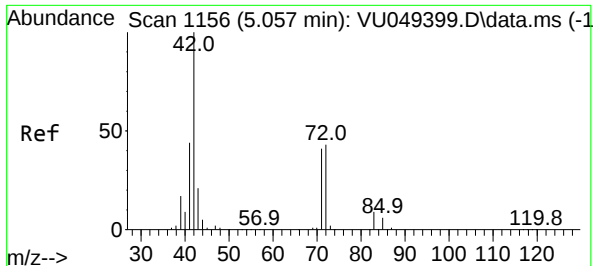
Delta R.T. 0.007 min

Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

Tgt Ion: 96	Resp: 6463
Ion Ratio	Lower Upper
96 100	
61 137.4	0.0 271.6
98 64.2	0.0 128.2





#29

Tetrahydrofuran

Concen: 0.317 ug/l

RT: 5.076 min Scan# 1162

Delta R.T. 0.020 min

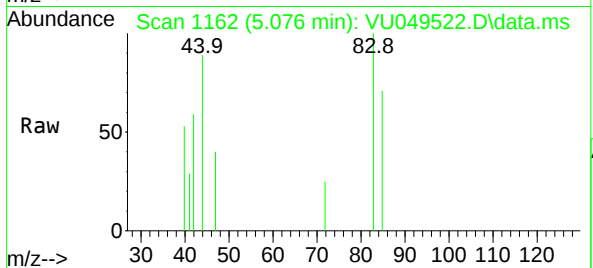
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Acq: 29 Jun 2022 18:42

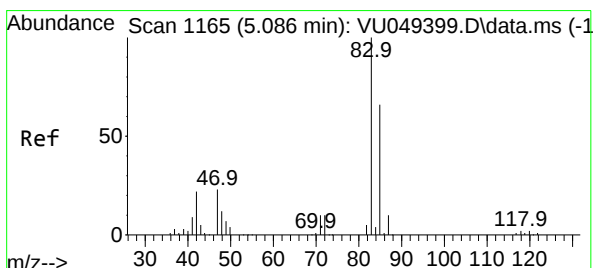
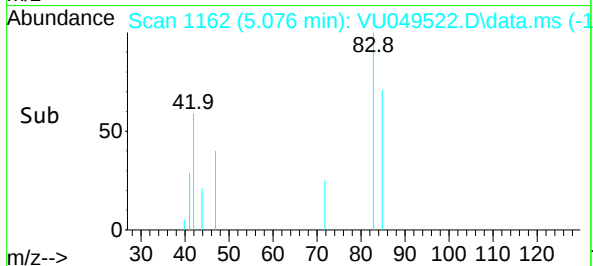
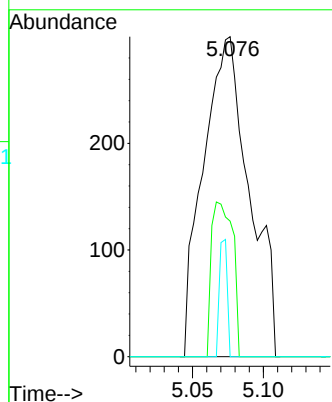
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	42	Resp:	679
Ion Ratio	100	Lower	Upper
42	100		
72	22.2	42.6	63.8#
71	6.2	40.3	60.5#



#30

Chloroform

Concen: 0.296 ug/l

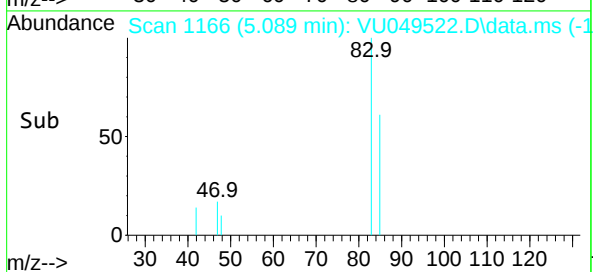
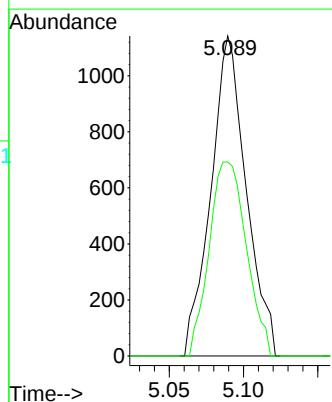
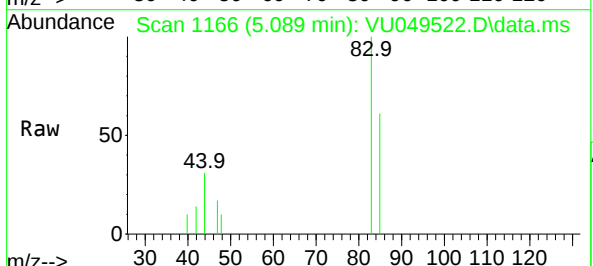
RT: 5.089 min Scan# 1166

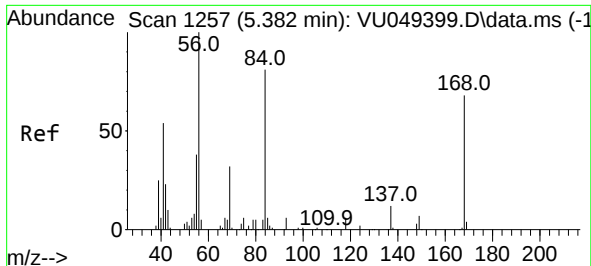
Delta R.T. 0.003 min

Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

Tgt Ion:	83	Resp:	1888
Ion Ratio	100	Lower	Upper
83	100		
85	60.6	51.2	76.8





#31

Cyclohexane

Concen: 0.927 ug/l

RT: 5.375 min Scan# 1

Delta R.T. -0.006 min

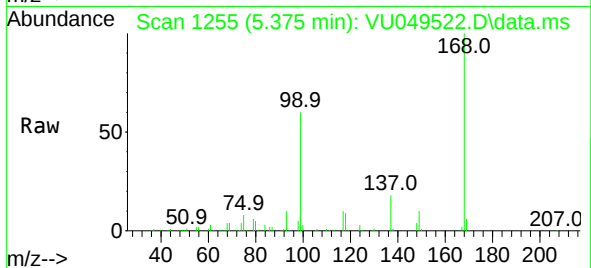
Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

Instrument :

MSVOA_U

ClientSampleId :



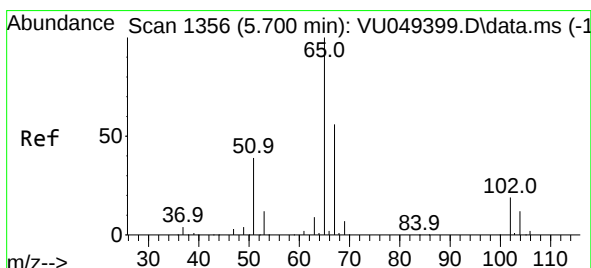
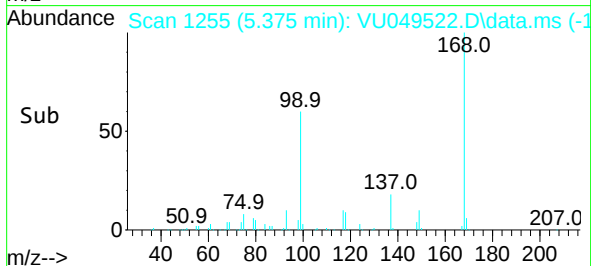
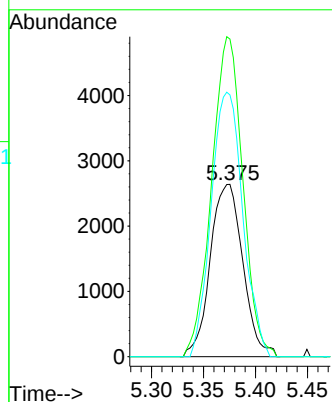
Tgt Ion: 56 Resp: 5746

Ion Ratio Lower Upper

56 100

69 184.4 27.8 41.8#

84 152.0 74.2 111.4#



#33

1,2-Dichloroethane-d4

Concen: 45.330 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. 0.003 min

Lab File: VU049522.D

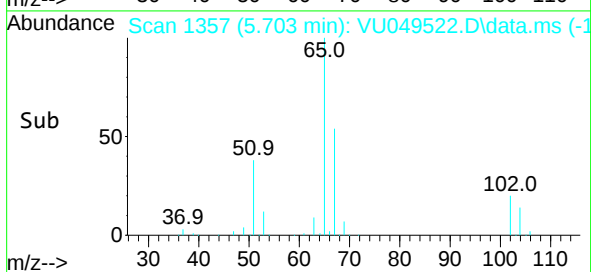
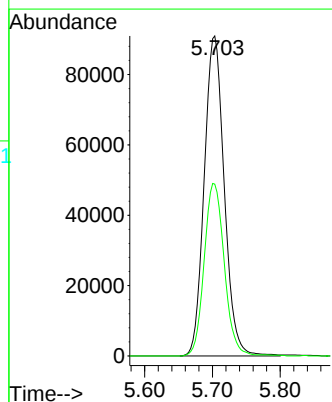
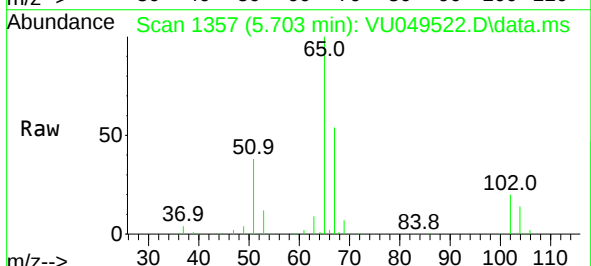
Acq: 29 Jun 2022 18:42

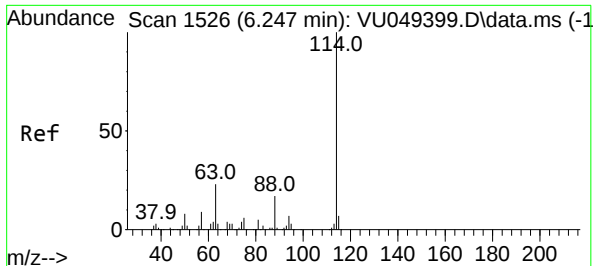
Tgt Ion: 65 Resp: 187192

Ion Ratio Lower Upper

65 100

67 54.2 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

Instrument :

MSVOA_U

ClientSampleId :

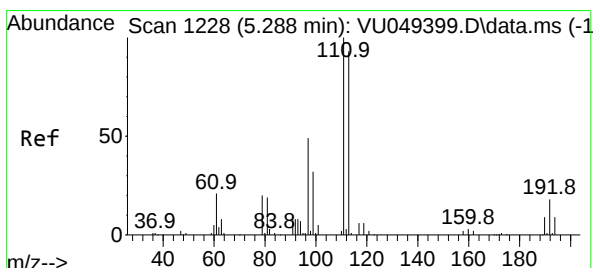
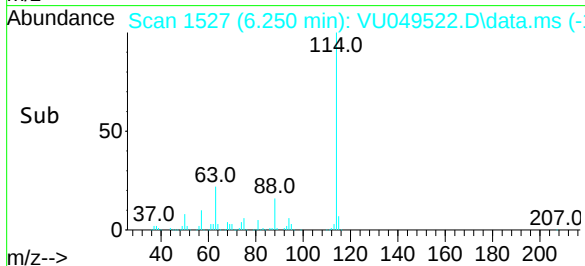
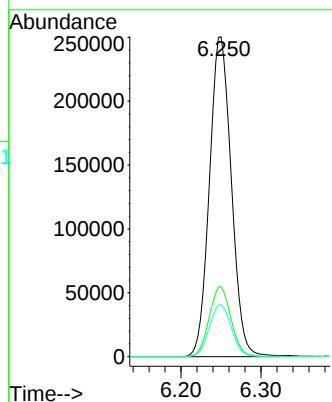
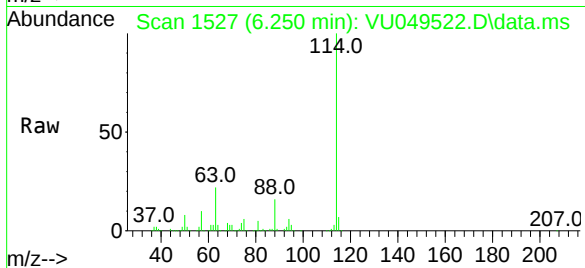
Tgt Ion:114 Resp: 475319

Ion Ratio Lower Upper

114 100

63 21.9 0.0 37.8

88 16.3 0.0 29.2



#35

Dibromofluoromethane

Concen: 45.139 ug/l

RT: 5.289 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

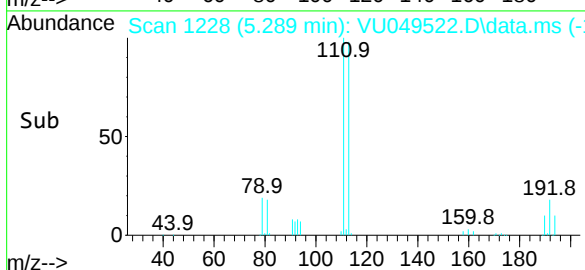
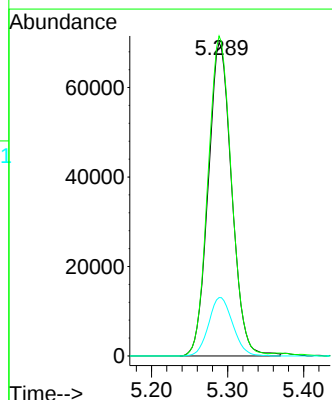
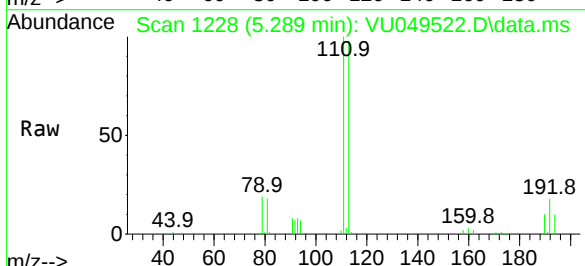
Tgt Ion:113 Resp: 150108

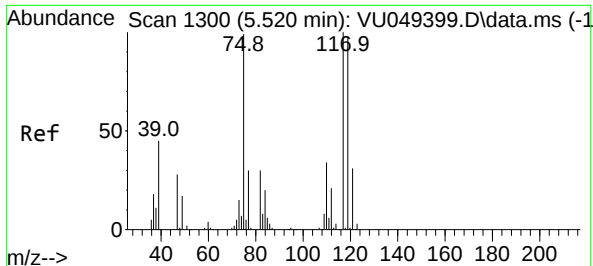
Ion Ratio Lower Upper

113 100

111 102.2 82.1 123.1

192 19.2 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.519 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.151 min

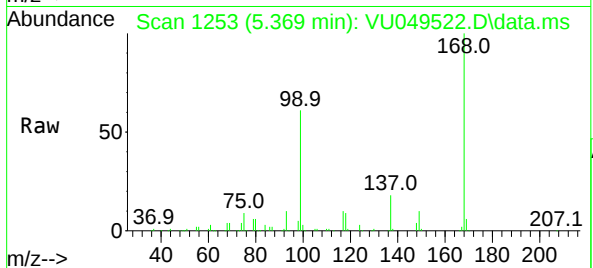
Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

Instrument :

MSVOA_U

ClientSampleId :



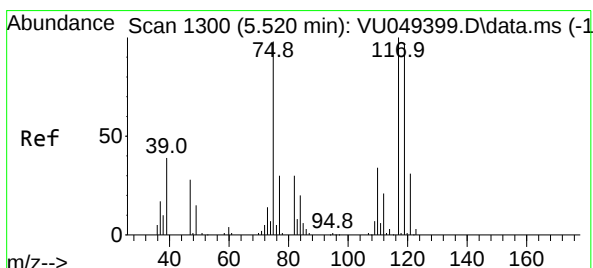
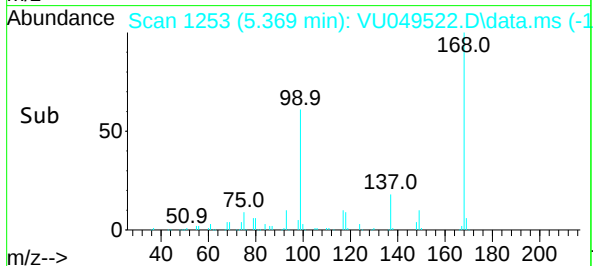
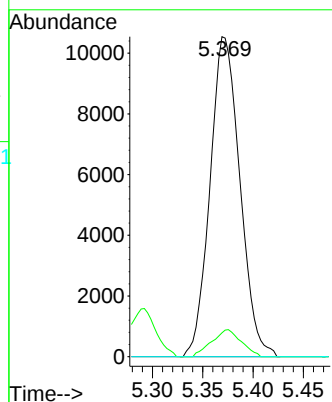
Tgt Ion: 75 Resp: 21789

Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 0.225 ug/l

RT: 5.523 min Scan# 1301

Delta R.T. 0.003 min

Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

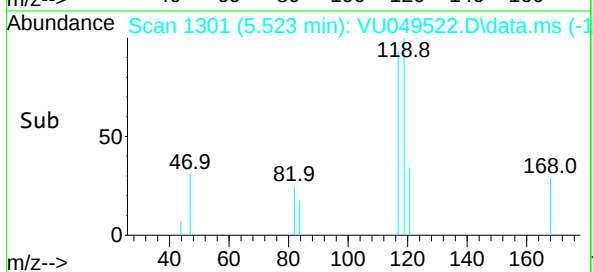
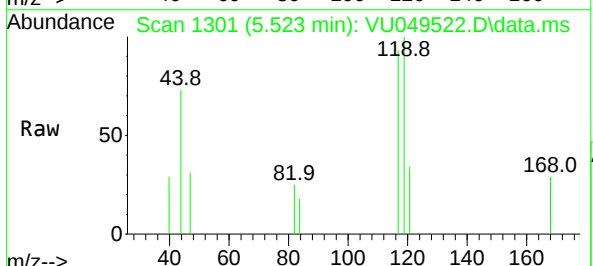
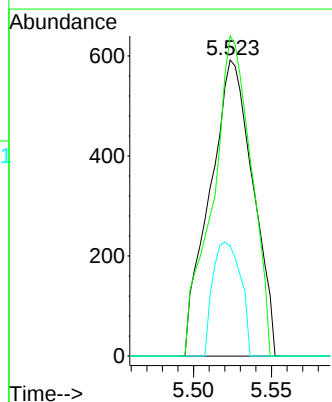
Tgt Ion: 117 Resp: 1140

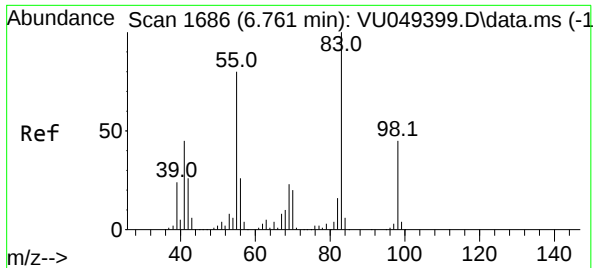
Ion Ratio Lower Upper

117 100

119 108.1 76.8 115.2

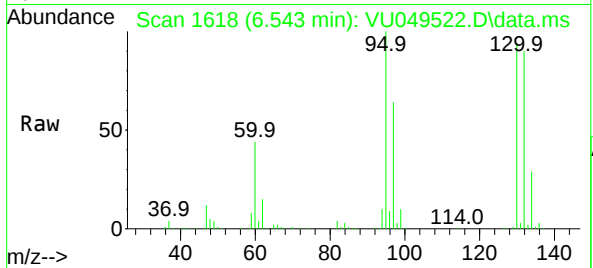
121 37.2 24.7 37.1#



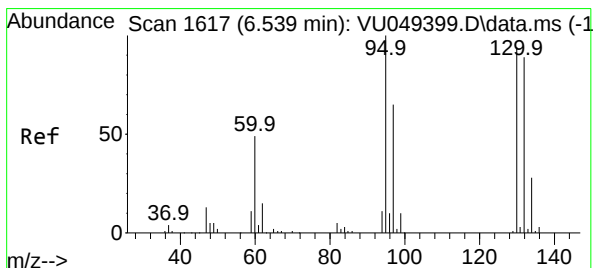
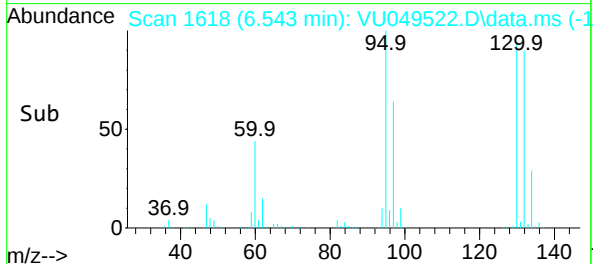
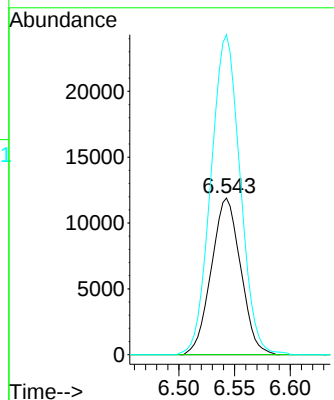


#39
Methylcyclohexane
Concen: 3.770 ug/l
RT: 6.543 min Scan# 1618
Delta R.T. -0.218 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Instrument :
MSVOA_U
ClientSampleId :

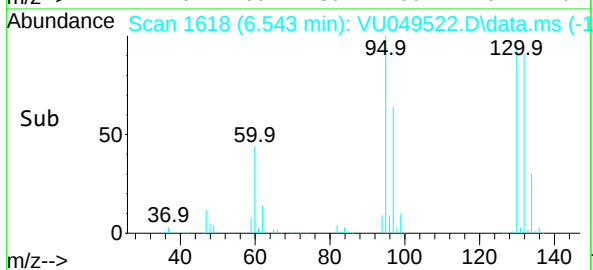
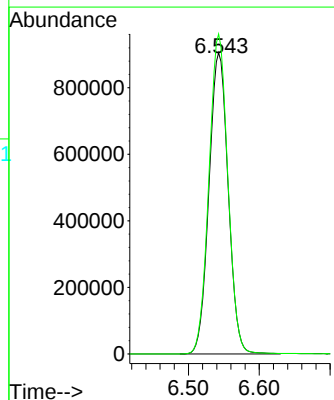
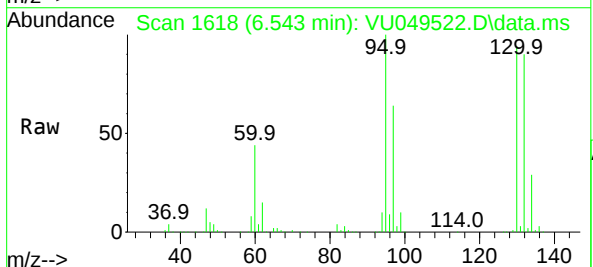


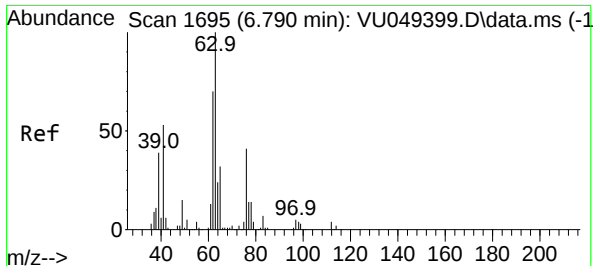
Tgt Ion: 83 Resp: 21788
Ion Ratio Lower Upper
83 100
55 0.0 55.3 82.9#
98 203.2 37.3 55.9#



#44
Trichloroethene
Concen: 491.177 ug/l
RT: 6.543 min Scan# 1618
Delta R.T. 0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Tgt Ion:130 Resp: 1699833
Ion Ratio Lower Upper
130 100
95 106.2 0.0 184.6





#45

1,2-Dichloropropane

Concen: 1.485 ug/l

RT: 6.539 min Scan# 1

Delta R.T. -0.251 min

Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

Instrument :

MSVOA_U

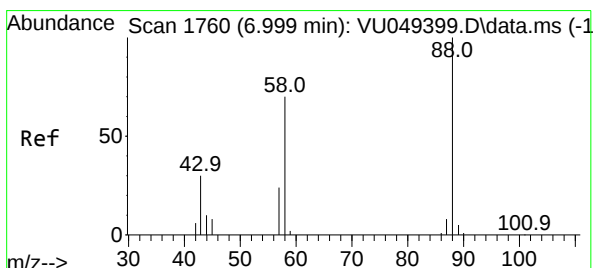
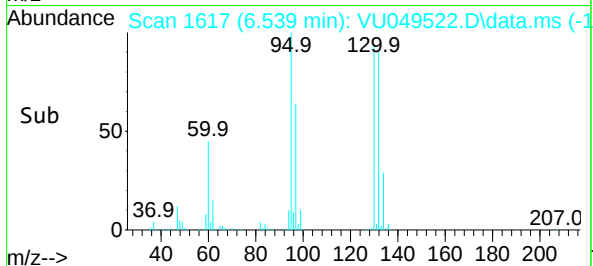
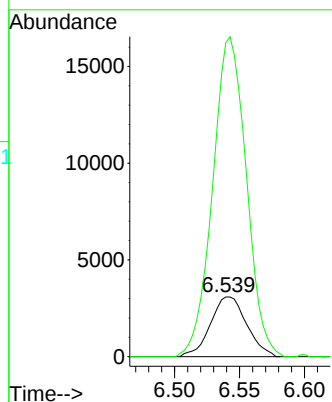
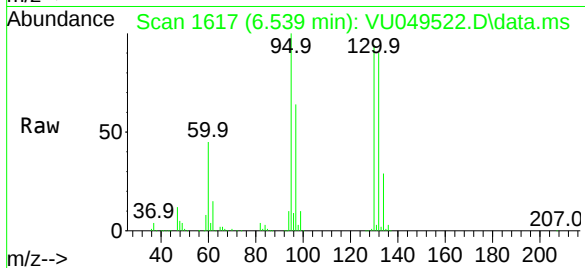
ClientSampleId :

Tgt Ion: 63 Resp: 5990

Ion Ratio Lower Upper

63 100

65 521.2 25.0 37.4#



#49

1,4-Dioxane

Concen: 20.101 ug/l

RT: 6.977 min Scan# 1753

Delta R.T. -0.022 min

Lab File: VU049522.D

Acq: 29 Jun 2022 18:42

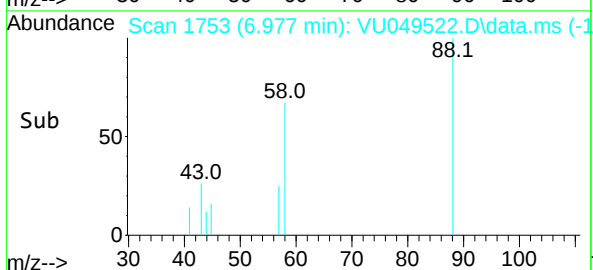
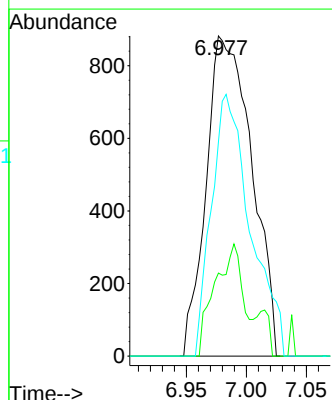
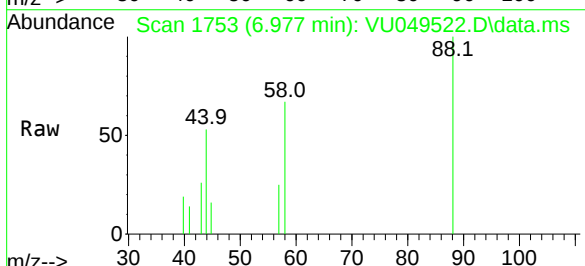
Tgt Ion: 88 Resp: 2330

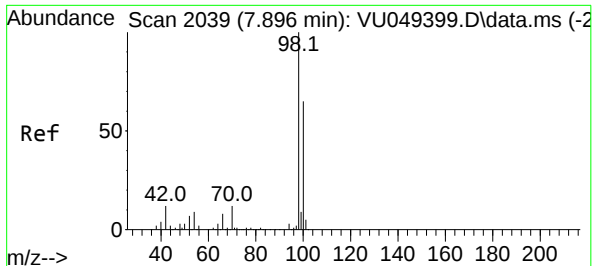
Ion Ratio Lower Upper

88 100

43 22.1 0.0 0.0#

58 70.0 15.4 23.0#

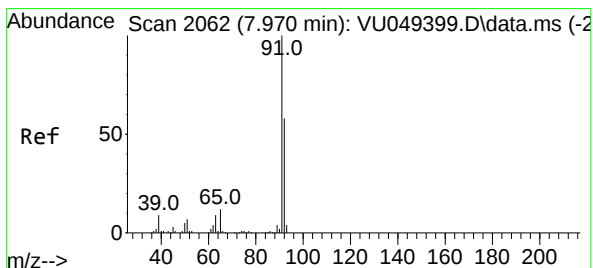
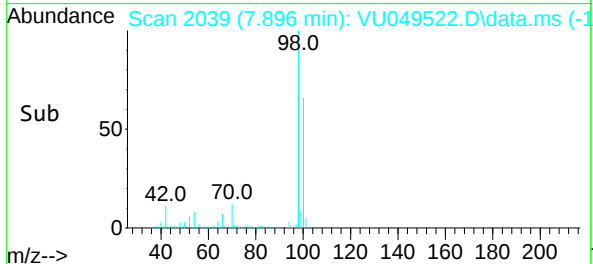
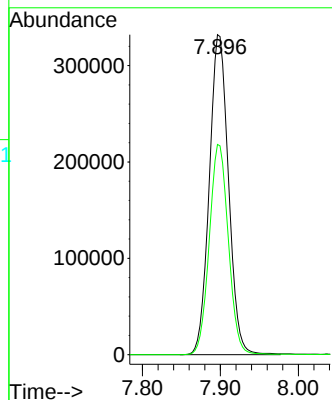
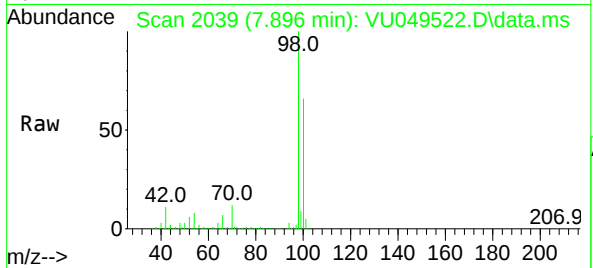




#50
Toluene-d8
Concen: 47.890 ug/l
RT: 7.896 min Scan# 2039
Delta R.T. 0.000 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

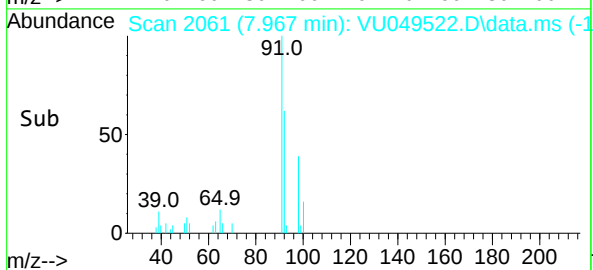
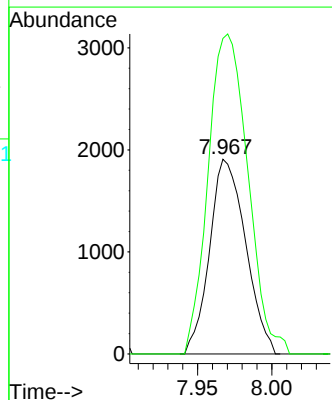
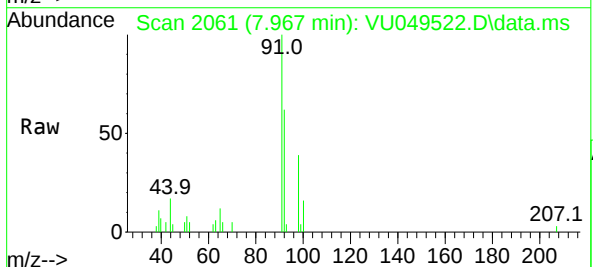
Instrument :
MSVOA_U
ClientSampleId :

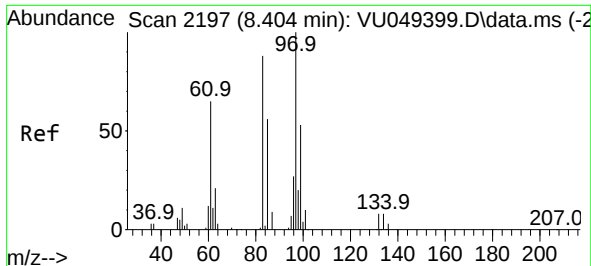
Tgt Ion: 98 Resp: 568026
Ion Ratio Lower Upper
98 100
100 65.3 51.7 77.5



#52
Toluene
Concen: 0.372 ug/l
RT: 7.967 min Scan# 2061
Delta R.T. -0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

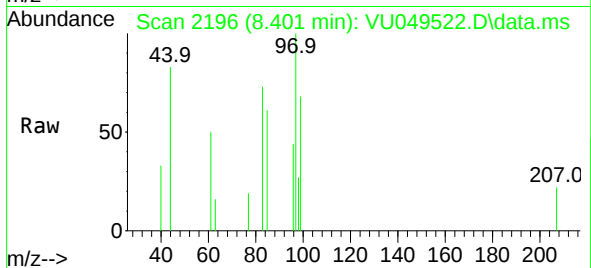
Tgt Ion: 92 Resp: 3219
Ion Ratio Lower Upper
92 100
91 181.2 138.2 207.4



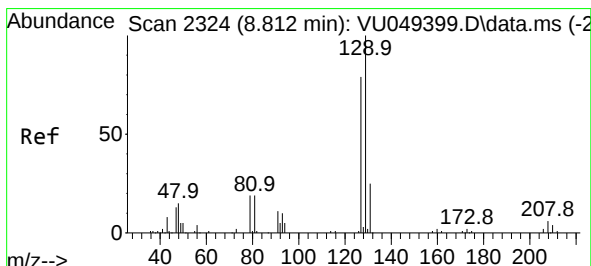
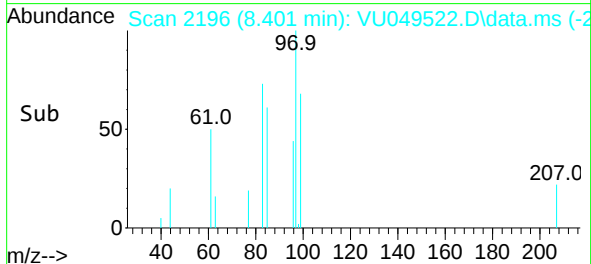
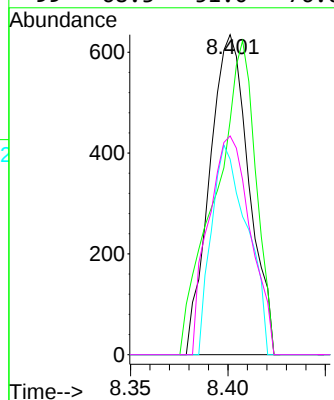


#55
 1,1,2-Trichloroethane
 Concen: 0.249 ug/l
 RT: 8.401 min Scan# 2196
 Delta R.T. -0.003 min
 Lab File: VU049522.D
 Acq: 29 Jun 2022 18:42

Instrument :
 MSVOA_U
 ClientSampleId :

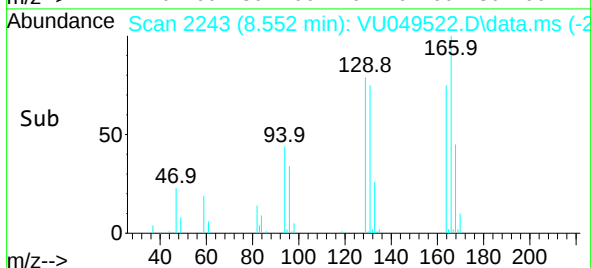
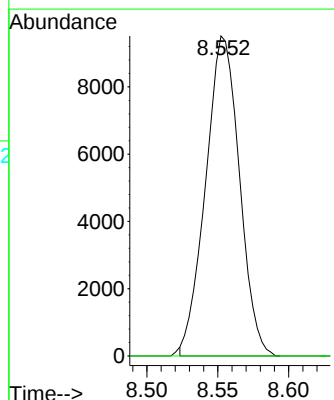
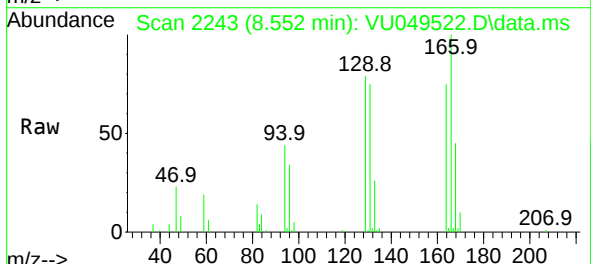


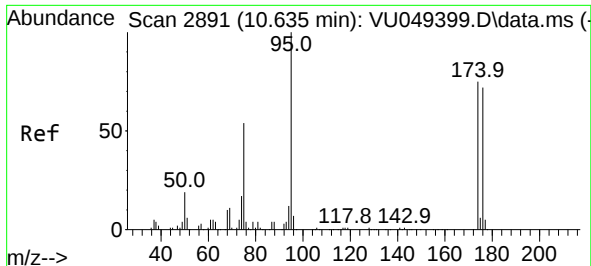
Tgt Ion: 97	Resp:	891
Ion	Ratio	Lower Upper
97	100	
83	73.1	70.2 105.4
85	61.1	44.6 66.8
99	68.3	51.0 76.6



#60
 Dibromochloromethane
 Concen: 4.253 ug/l
 RT: 8.552 min Scan# 2243
 Delta R.T. -0.260 min
 Lab File: VU049522.D
 Acq: 29 Jun 2022 18:42

Tgt Ion: 129	Resp:	15821
Ion	Ratio	Lower Upper
129	100	
127	0.0	38.6 116.0#

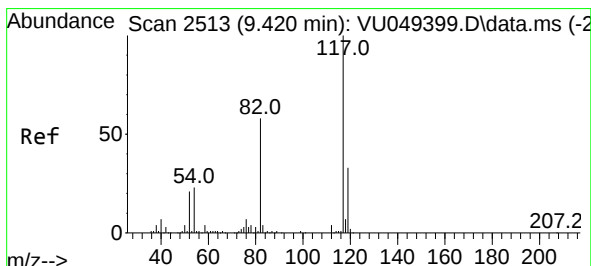
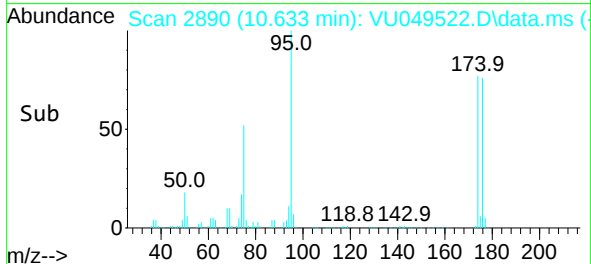
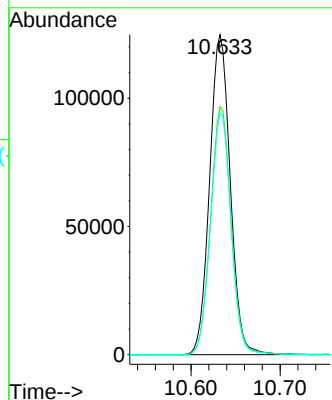
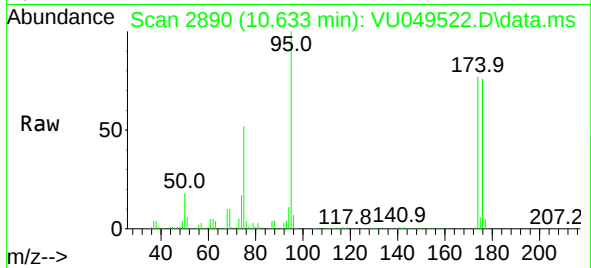




#62
4-Bromofluorobenzene
Concen: 44.179 ug/l
RT: 10.633 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

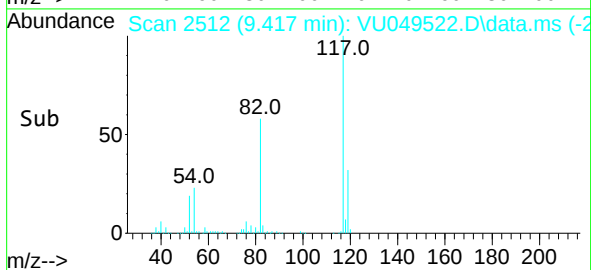
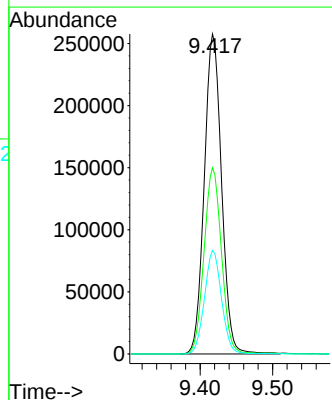
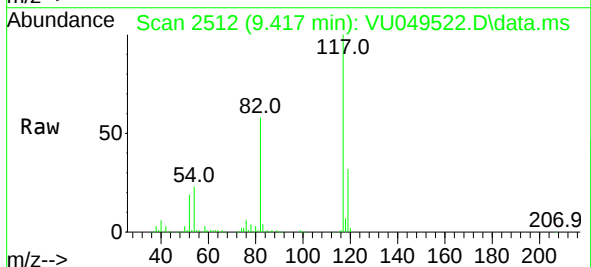
Instrument :
MSVOA_U
ClientSampleId :

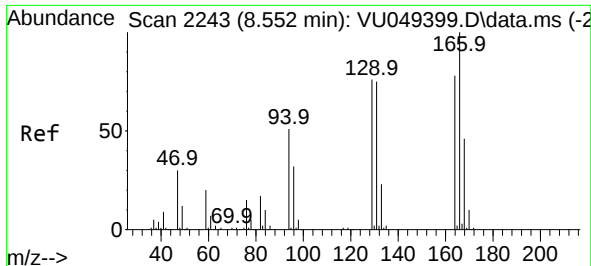
Tgt Ion: 95 Resp: 200728
Ion Ratio Lower Upper
95 100
174 77.5 0.0 182.0
176 74.9 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

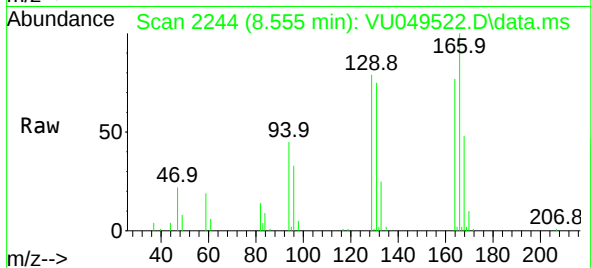
Tgt Ion: 117 Resp: 427018
Ion Ratio Lower Upper
117 100
82 58.2 41.7 62.5
119 32.3 25.7 38.5



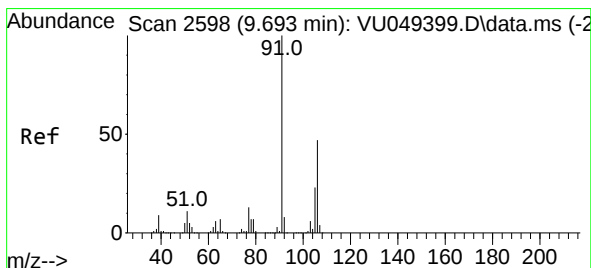
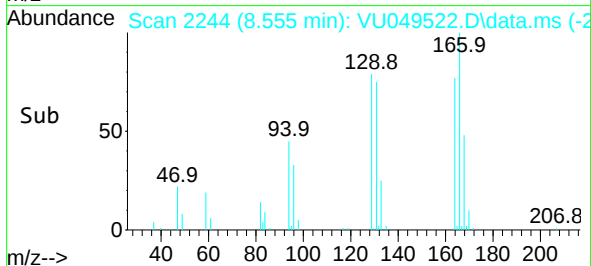
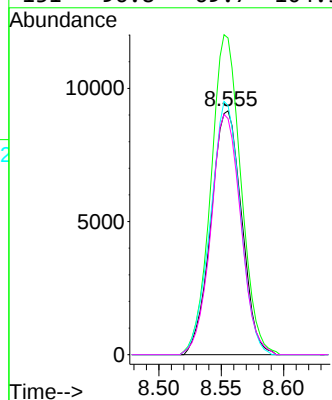


#64
Tetrachloroethene
Concen: 5.729 ug/l
RT: 8.555 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Instrument :
MSVOA_U
ClientSampleId :

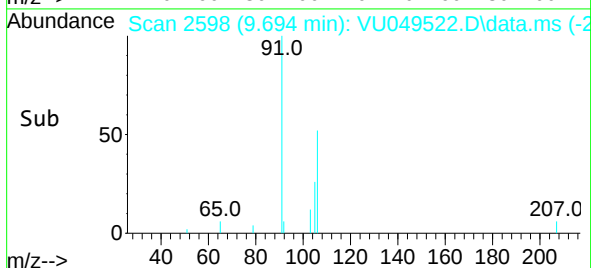
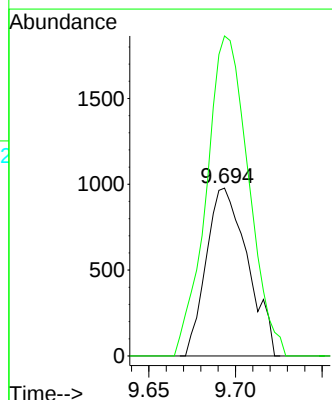
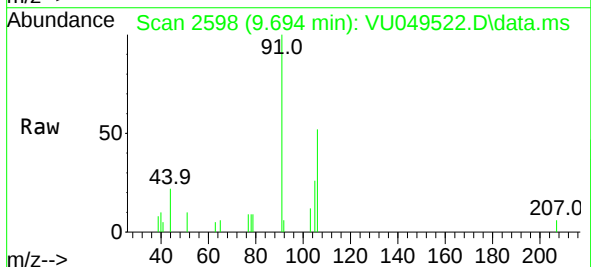


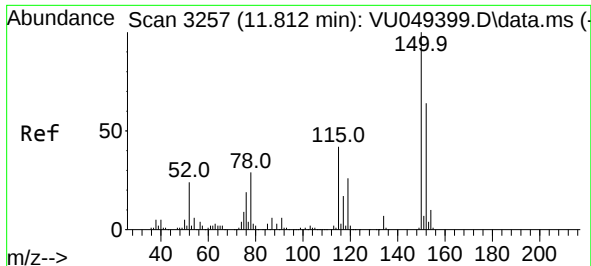
Tgt Ion:164 Resp: 15690
Ion Ratio Lower Upper
164 100
166 129.9 100.0 150.0
129 102.1 72.0 108.0
131 96.8 69.7 104.5



#68
m/p-Xylenes
Concen: 0.273 ug/l
RT: 9.694 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

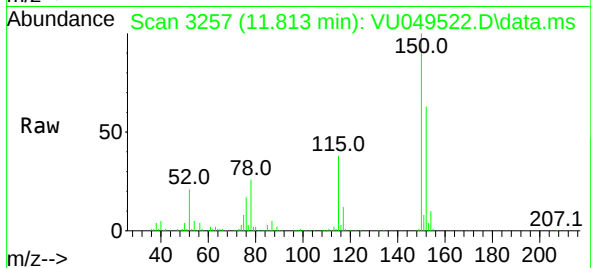
Tgt Ion:106 Resp: 1619
Ion Ratio Lower Upper
106 100
91 195.3 157.2 235.8



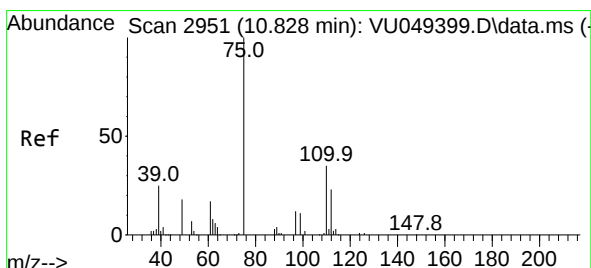
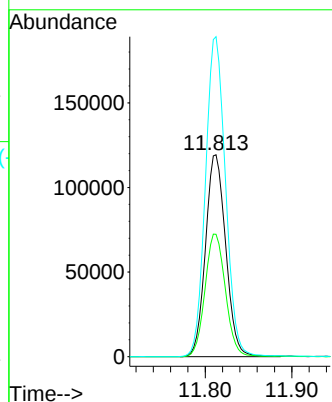
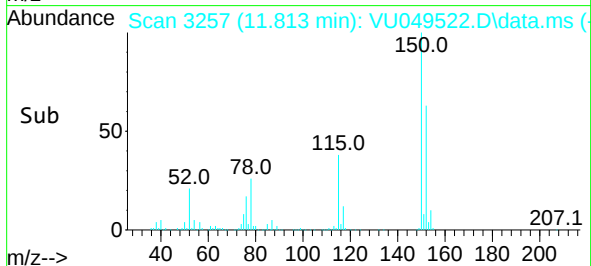


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.813 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU049522.D
 Acq: 29 Jun 2022 18:42

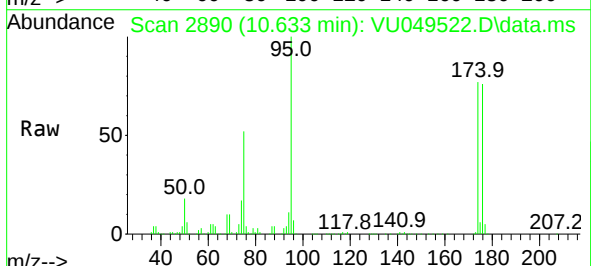
Instrument :
 MSVOA_U
 ClientSampleId :



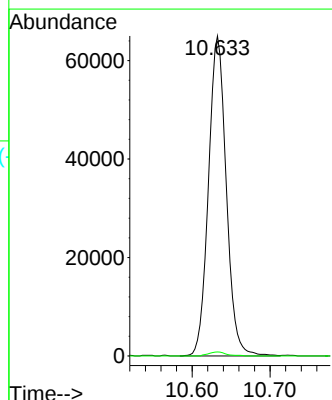
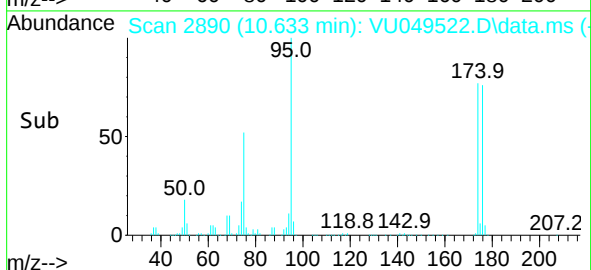
Tgt Ion:152 Resp: 193723
 Ion Ratio Lower Upper
 152 100
 115 61.1 37.0 110.9
 150 157.2 0.0 342.2

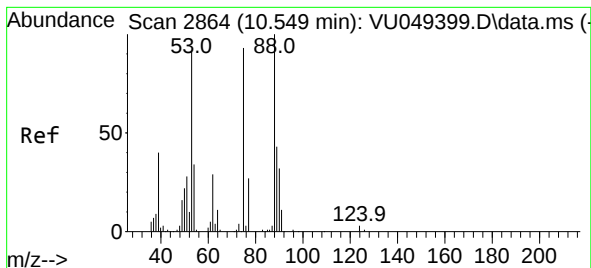


#76
 1,2,3-Trichloropropane
 Concen: 15.737 ug/l
 RT: 10.633 min Scan# 2890
 Delta R.T. -0.196 min
 Lab File: VU049522.D
 Acq: 29 Jun 2022 18:42



Tgt Ion: 75 Resp: 103348
 Ion Ratio Lower Upper
 75 100
 77 1.3 15.8 47.3#

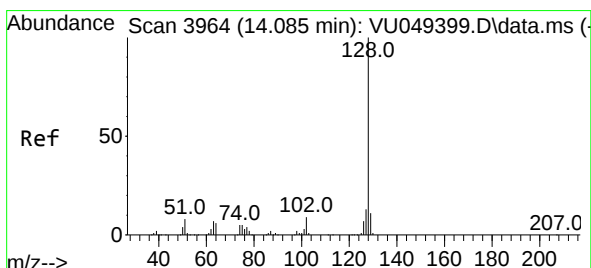
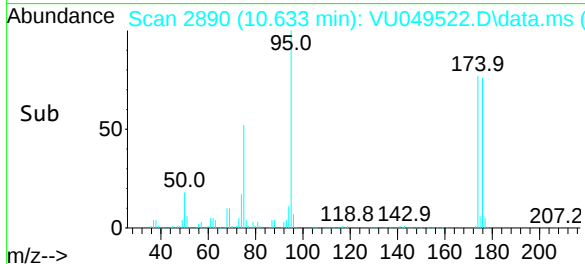
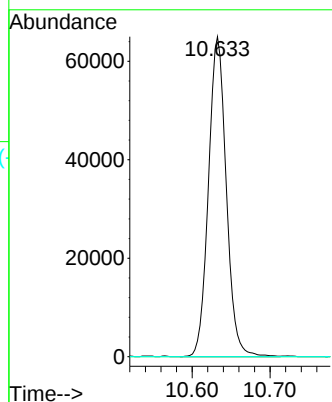
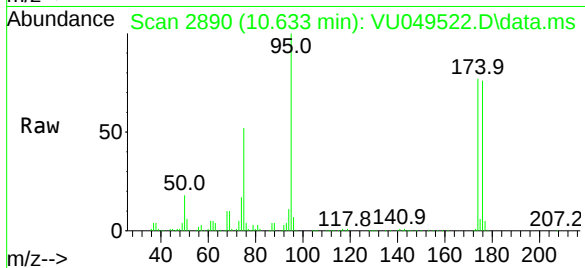




#81
trans-1,4-Dichloro-2-butene
Concen: 58.116 ug/l
RT: 10.633 min Scan# 21
Delta R.T. 0.084 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 75 Resp: 103348
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#95
Naphthalene
Concen: 1.949 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.007 min
Lab File: VU049522.D
Acq: 29 Jun 2022 18:42

Tgt Ion:128 Resp: 3340
Ion Ratio Lower Upper
128 100
127 7.8 10.3 15.5#
129 9.6 8.6 13.0

