

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030722\
 Data File : VU047361.D
 Acq On : 07 Mar 2022 12:46
 Operator : SY/MD
 Sample : N1773-12
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFY19

Quant Time: Mar 07 13:11:16 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 04 23:20:39 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.279	114	187289	5.000	ug/L	0.03
28) Chlorobenzene-d5	9.423	117	180621	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	99559	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.607	65	66245	4.983	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.600%
7) Chloroethane-d5	1.925	69	60284	5.436	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.800%
11) 1,1-Dichloroethene-d2	2.572	65	29336	5.226	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	104.600%
20) 2-Butanone-d5	4.726	46	182590	41.840	ug/L	0.08
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.680%
24) Chloroform-d	5.076	84	124337	5.063	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.200%
26) 1,2-Dichloroethane-d4	5.726	65	69638	5.052	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.000%
32) Benzene-d6	5.742	84	246395	4.844	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.800%
36) 1,2-Dichloropropane-d6	6.716	67	81156	5.122	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.400%
41) Toluene-d8	7.912	98	224955	4.683	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.600%
43) trans-1,3-Dichloroprop...	8.192	79	34697	4.984	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.600%
46) 2-Hexanone-d5	8.652	63	188095	47.469	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.940%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	79011	4.895	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.800%
66) 1,2-Dichlorobenzene-d4	12.195	152	101974	5.227	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.600%
Target Compounds						
5) Vinyl chloride	1.610	62	22592	1.819	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	1625	0.180	ug/L #	27
12) 1,1-Dichloroethene	2.584	96	330535	36.006	ug/L #	61
15) Methyl Acetate	2.964	43	689	0.171	ug/L #	51
17) Methyl tert-butyl Ether	3.395	73	35253	1.434	ug/L #	92
18) trans-1,2-Dichloroethene	3.353	96	4031	0.404	ug/L	85
19) 1,1-Dichloroethane	3.871	63	76296	4.597	ug/L	99
22) cis-1,2-Dichloroethene	4.671	96	527259	48.581	ug/L	94
27) 1,2-Dichloroethane	5.819	62	4454	0.364	ug/L	100
29) 1,1,1-Trichloroethane	5.324	97	125721	8.289	ug/L	97
31) Carbon tetrachloride	5.324	117	17250	1.317	ug/L	100
33) Benzene	5.797	78	6969	0.171	ug/L	100
34) Trichloroethene	6.565	95	810916	75.689	ug/L	93
35) Methylcyclohexane	6.716	83	19458	1.184	ug/L #	29
37) 1,2-Dichloropropane	6.816	63	1478	0.146	ug/L #	88
39) cis-1,3-Dichloropropene	7.584	75	2248	0.140	ug/L #	48
42) Toluene	7.983	91	11590	0.262	ug/L	96
47) Tetrachloroethene	8.562	164	775857	85.008	ug/L	92
49) Dibromochloromethane	8.562	129	710507	69.064	ug/L #	10

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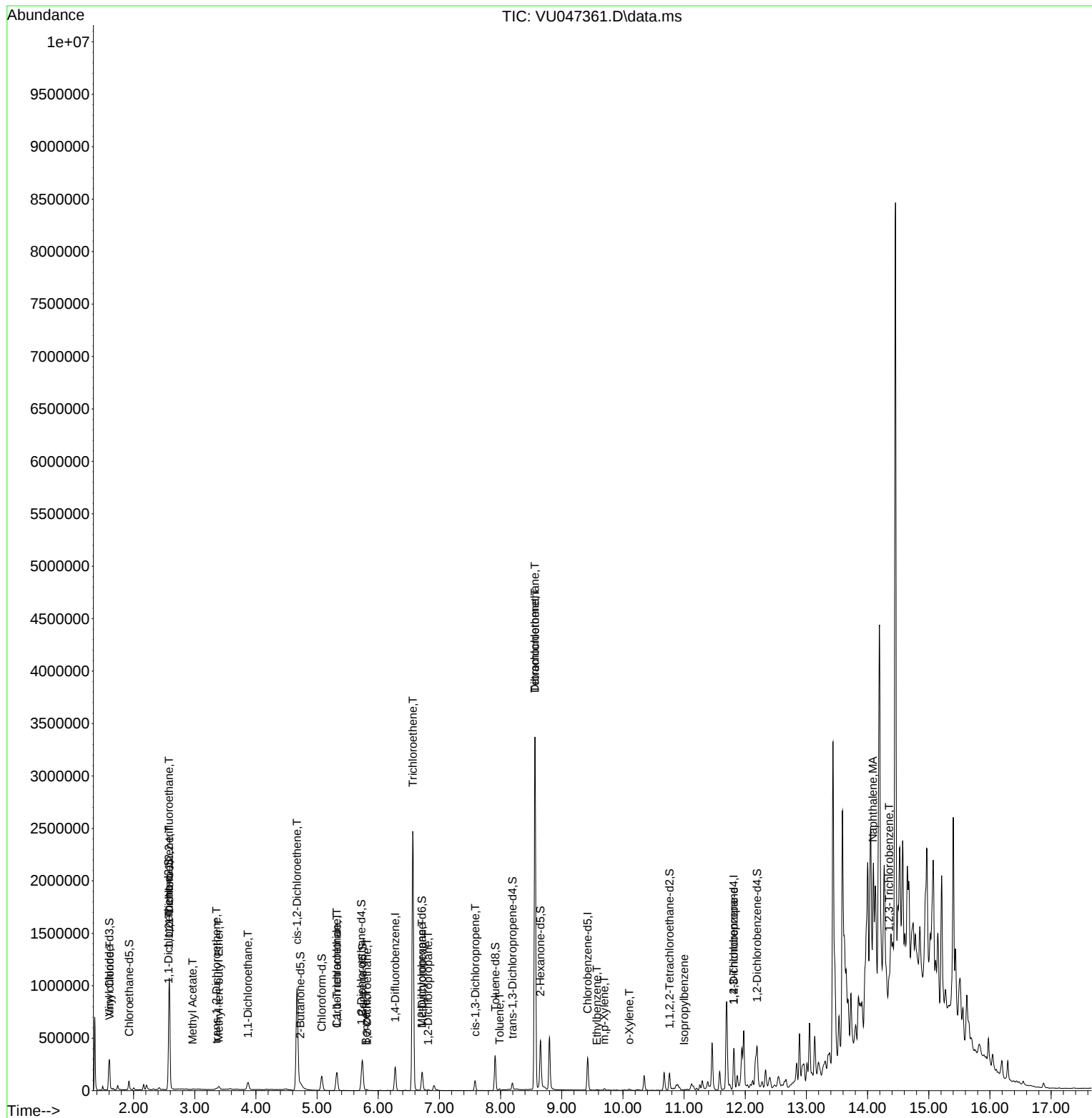
52) Ethylbenzene	9.575	91	3993	0.084	ug/L	100
53) m,p-Xylene	9.697	106	4621	0.246	ug/L	99
54) o-Xylene	10.102	106	2482	0.137	ug/L	100
60) Isopropylbenzene	10.999	105	4139	0.093	ug/L #	92
61) 1,2,3-Trichloropropane	11.812	75	10546	1.276	ug/L #	67
71) Naphthalene	14.089	128	6594	0.183	ug/L #	1
72) 1,2,3-Trichlorobenzene	14.352	180	23889	1.417	ug/L #	29

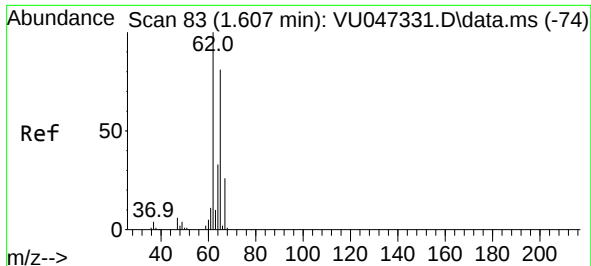
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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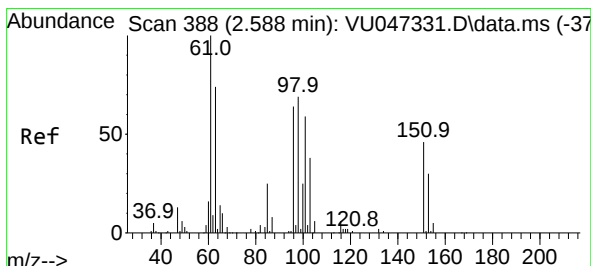
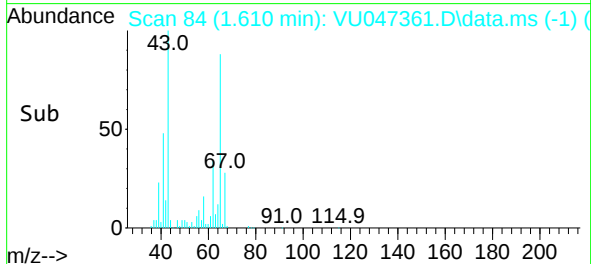
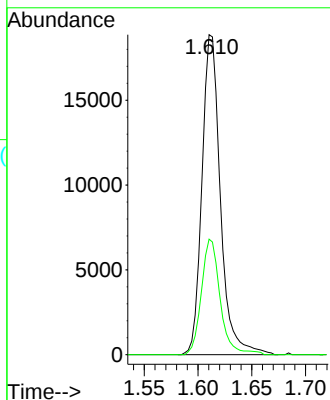
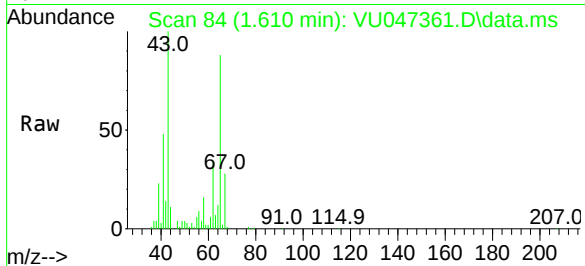




#5
 Vinyl chloride
 Concen: 1.819 ug/L
 RT: 1.610 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VU047361.D
 Acq: 07 Mar 2022 12:46

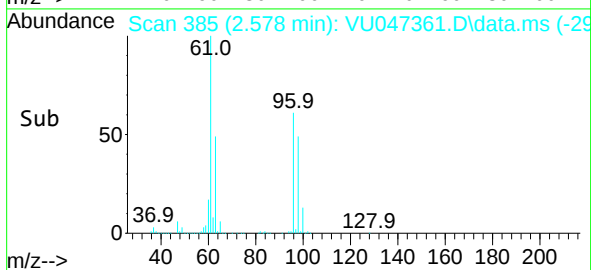
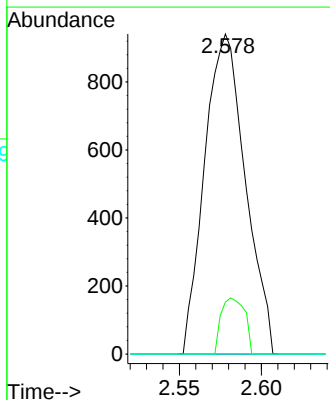
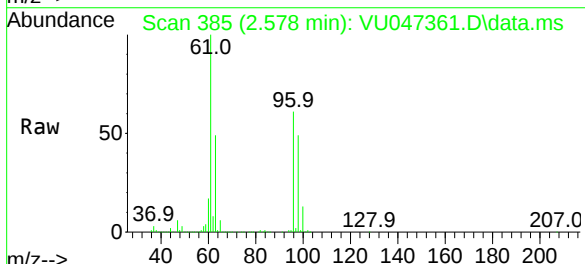
Instrument :
 MSVOA_U
 ClientSampleId :
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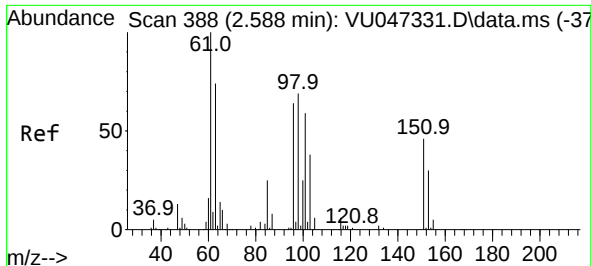
Tgt Ion: 62 Resp: 22592
 Ion Ratio Lower Upper
 62 100
 64 36.1 22.9 42.5



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.180 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. -0.010 min
 Lab File: VU047361.D
 Acq: 07 Mar 2022 12:46

Tgt Ion: 101 Resp: 1625
 Ion Ratio Lower Upper
 101 100
 85 10.1 34.6 51.8#
 151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 36.006 ug/L

RT: 2.584 min Scan# 388

Delta R.T. -0.003 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

Instrument :

MSVOA_U

ClientSampleId :

BFY19

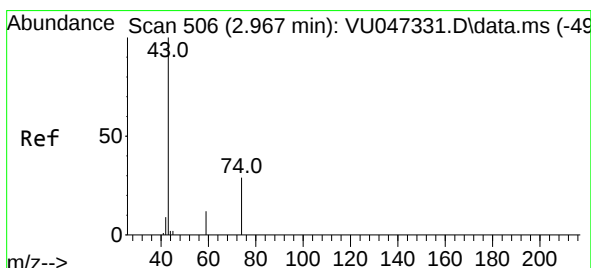
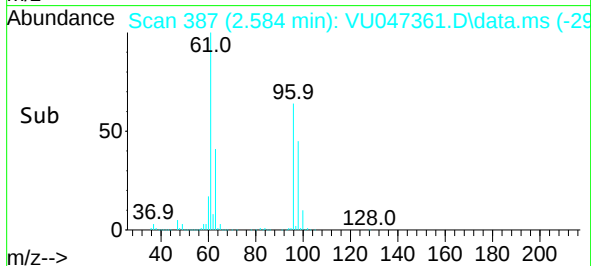
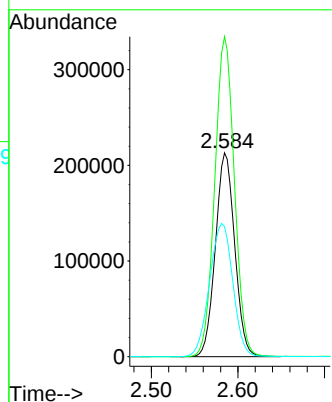
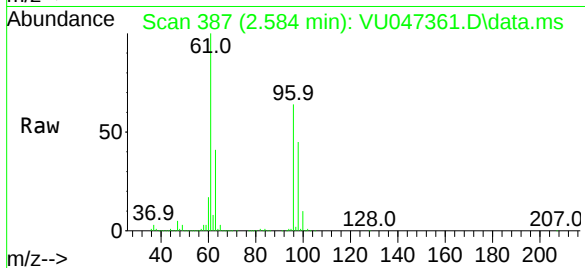
Tgt Ion: 96 Resp: 330535

Ion Ratio Lower Upper

96 100

61 156.9 124.7 231.5

63 63.8 105.2 195.4#



#15

Methyl Acetate

Concen: 0.171 ug/L

RT: 2.964 min Scan# 505

Delta R.T. -0.003 min

Lab File: VU047361.D

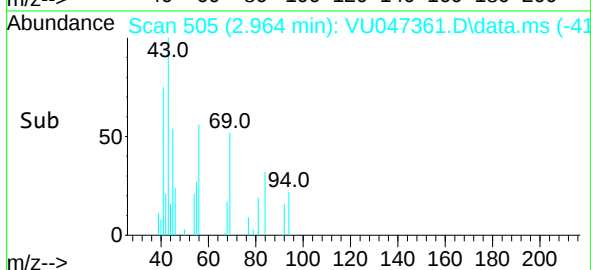
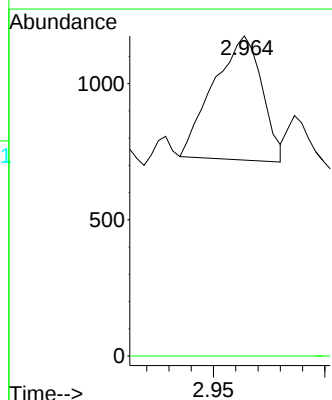
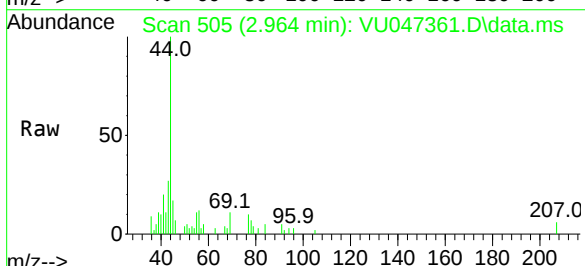
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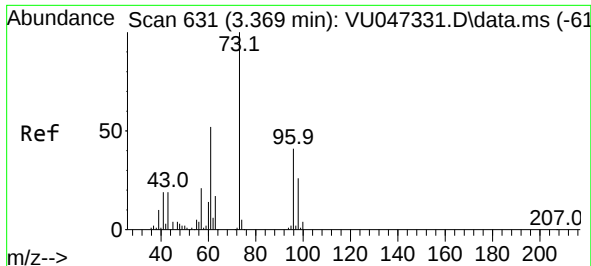
Tgt Ion: 43 Resp: 689

Ion Ratio Lower Upper

43 100

74 0.0 19.1 28.7#

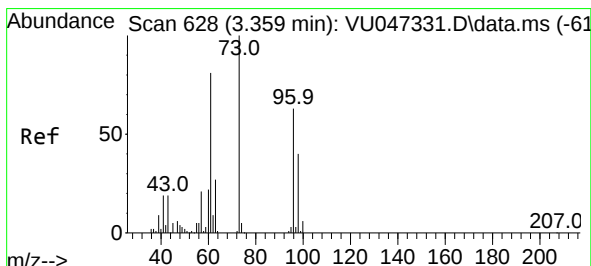
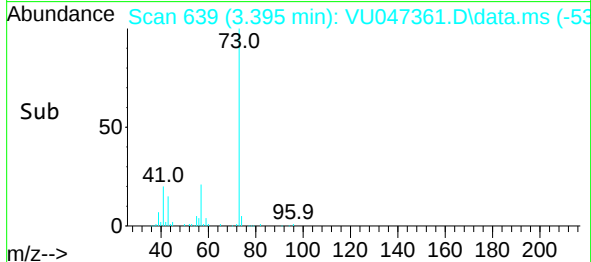
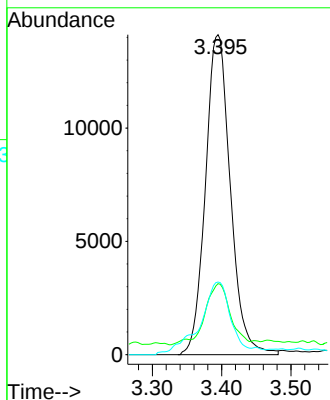
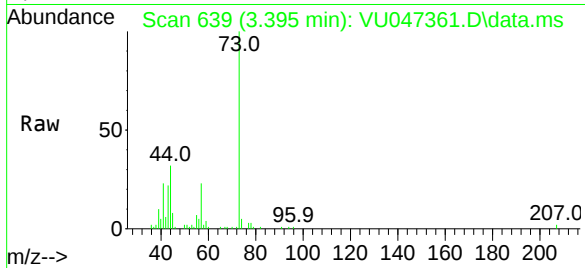




#17
Methyl tert-butyl Ether
Concen: 1.434 ug/L
RT: 3.395 min Scan# 61
Delta R.T. 0.026 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

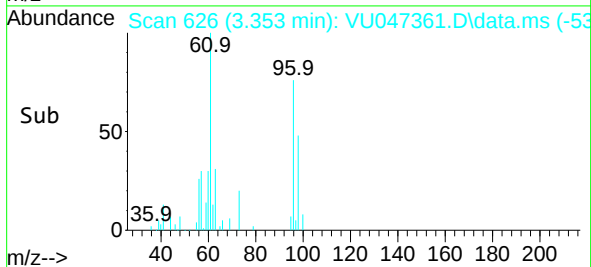
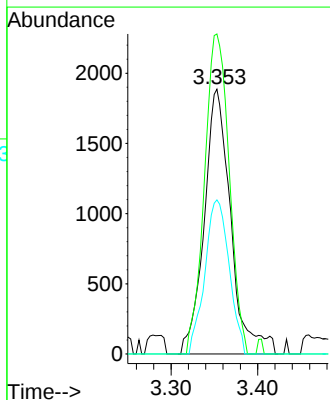
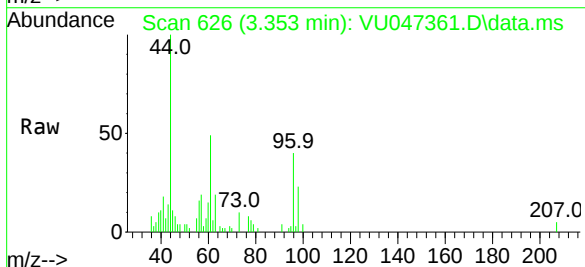
Instrument :
MSVOA_U
ClientSampleId :
BFY19

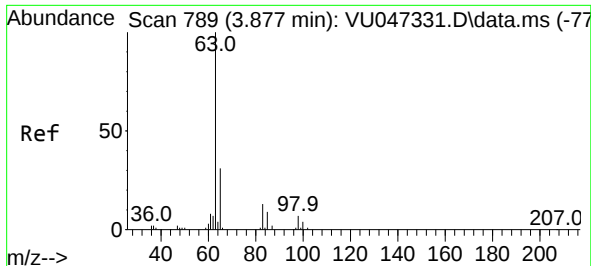
Tgt Ion: 73 Resp: 35253
Ion Ratio Lower Upper
73 100
43 17.7 14.8 22.2
57 27.9 17.4 26.0#



#18
trans-1,2-Dichloroethene
Concen: 0.404 ug/L
RT: 3.353 min Scan# 626
Delta R.T. -0.006 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Tgt Ion: 96 Resp: 4031
Ion Ratio Lower Upper
96 100
61 120.8 100.8 187.2
98 58.2 45.1 83.7





#19

1,1-Dichloroethane

Concen: 4.597 ug/L

RT: 3.871 min Scan# 71

Delta R.T. -0.006 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

Instrument :

MSVOA_U

ClientSampleId :

BFY19

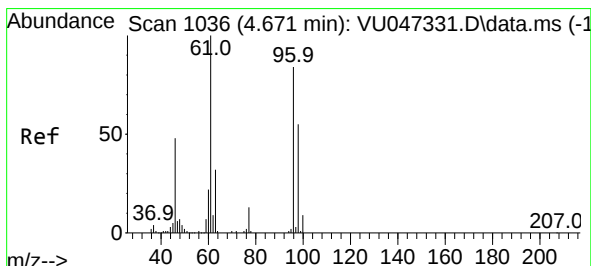
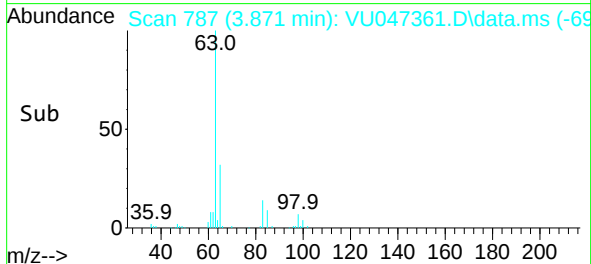
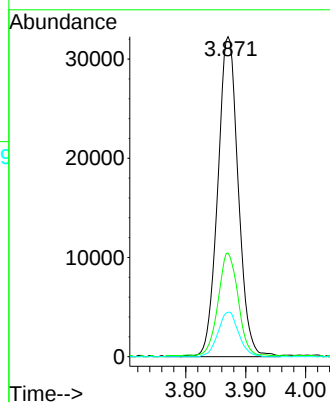
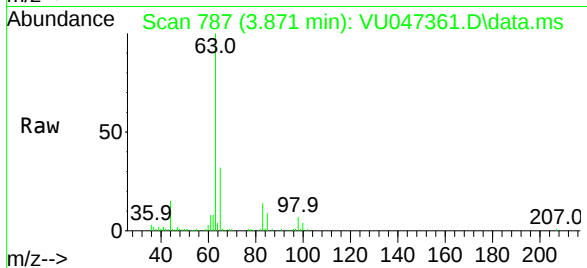
Tgt Ion: 63 Resp: 76296

Ion Ratio Lower Upper

63 100

65 32.4 22.3 41.5

83 13.9 9.6 17.8



#22

cis-1,2-Dichloroethene

Concen: 48.581 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

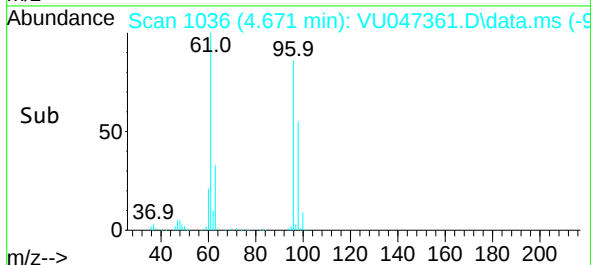
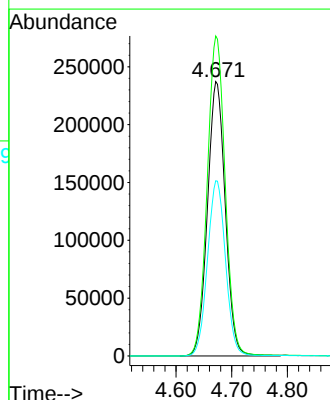
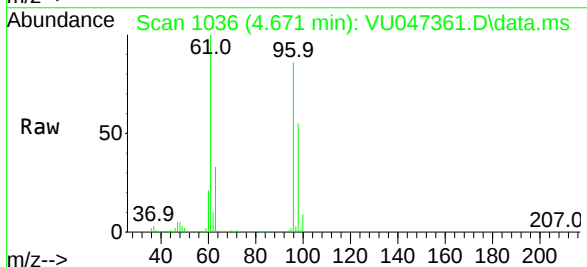
Tgt Ion: 96 Resp: 527259

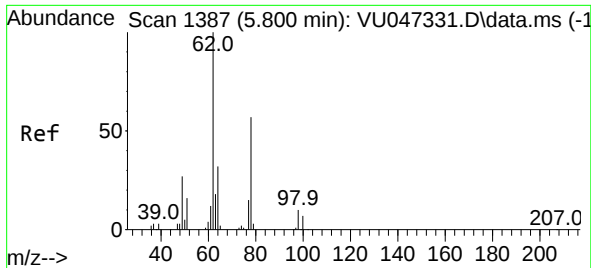
Ion Ratio Lower Upper

96 100

61 116.6 88.5 164.3

98 63.8 44.4 82.5

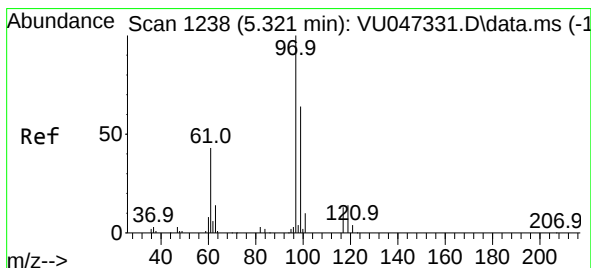
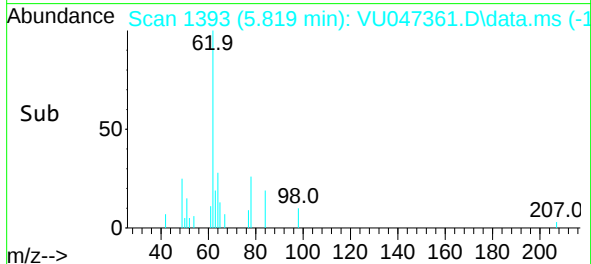
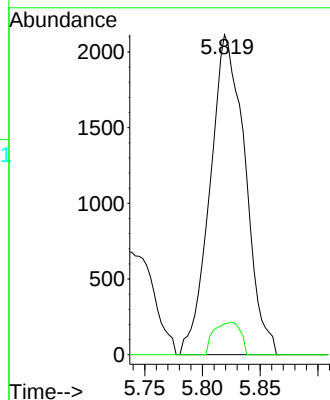
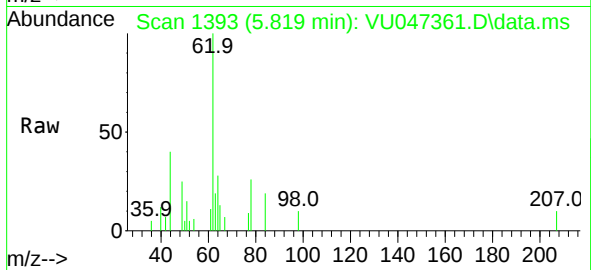




#27
1,2-Dichloroethane
Concen: 0.364 ug/L
RT: 5.819 min Scan# 11
Delta R.T. 0.019 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

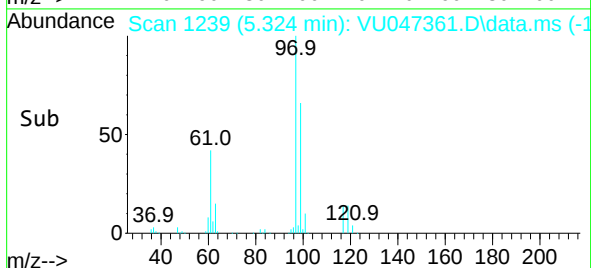
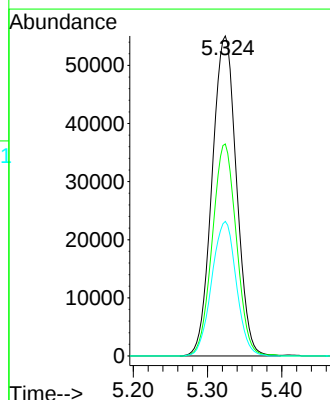
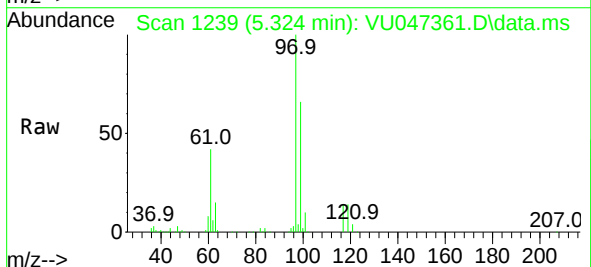
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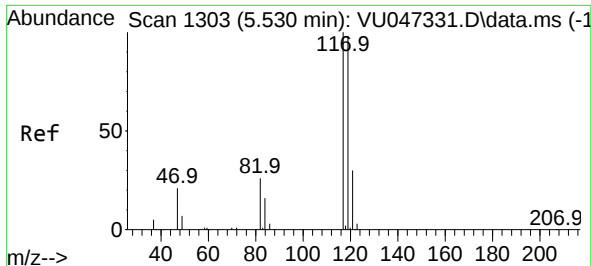
Tgt Ion: 62 Resp: 4454
Ion Ratio Lower Upper
62 100
98 9.6 7.8 11.8



#29
1,1,1-Trichloroethane
Concen: 8.289 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. 0.003 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Tgt Ion: 97 Resp: 125721
Ion Ratio Lower Upper
97 100
99 65.4 51.3 76.9
61 42.3 36.1 54.1

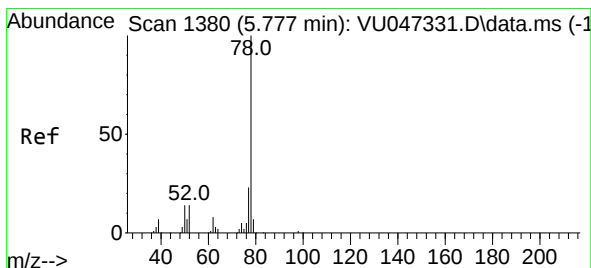
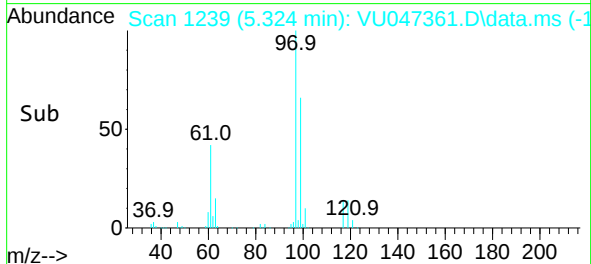
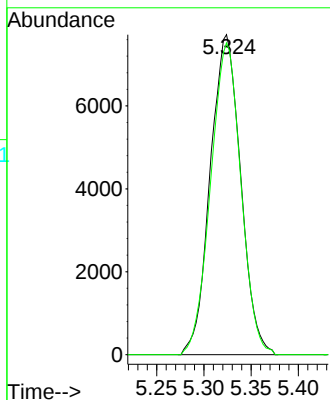
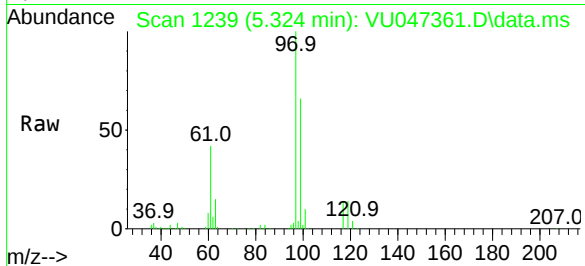




#31
Carbon tetrachloride
Concen: 1.317 ug/L
RT: 5.324 min Scan# 11
Delta R.T. -0.206 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

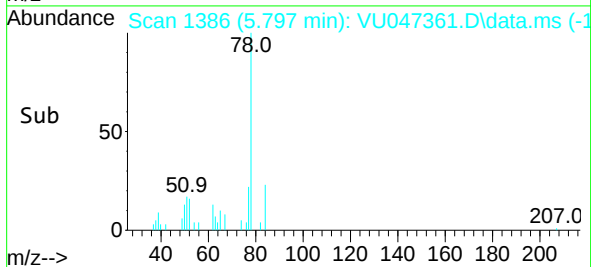
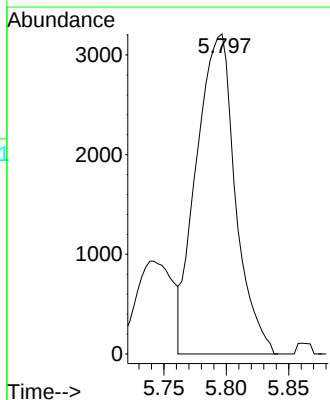
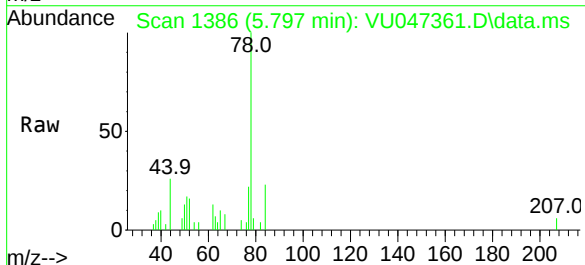
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ClientSampleId :
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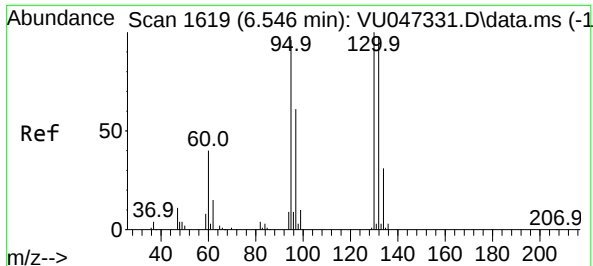
Tgt Ion:117 Resp: 17250
Ion Ratio Lower Upper
117 100
119 96.9 77.5 116.3



#33
Benzene
Concen: 0.171 ug/L
RT: 5.797 min Scan# 1386
Delta R.T. 0.019 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Tgt Ion: 78 Resp: 6969





#34

Trichloroethene

Concen: 75.689 ug/L

RT: 6.565 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

Instrument :

MSVOA_U

ClientSampleId :

BFY19

Tgt Ion: 95 Resp: 810916

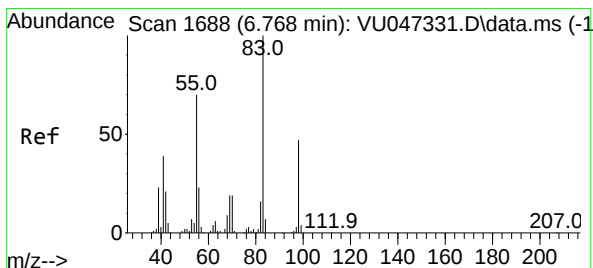
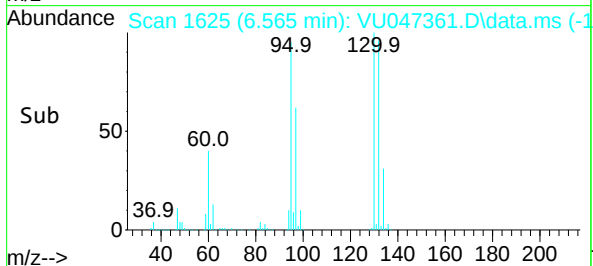
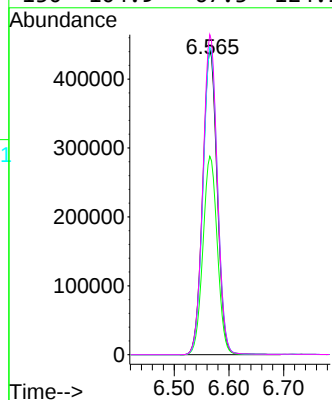
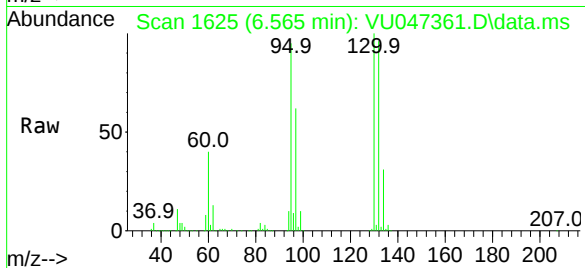
Ion Ratio Lower Upper

95 100

97 65.0 46.5 86.5

132 100.7 65.1 120.9

130 104.9 67.3 124.9



#35

Methylcyclohexane

Concen: 1.184 ug/L

RT: 6.716 min Scan# 1672

Delta R.T. -0.051 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

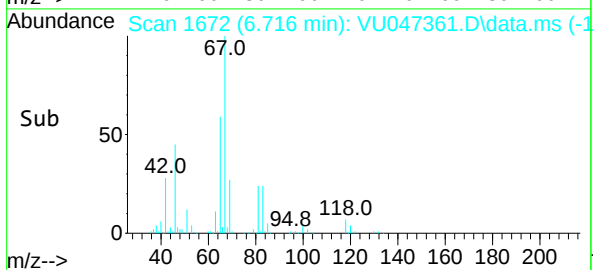
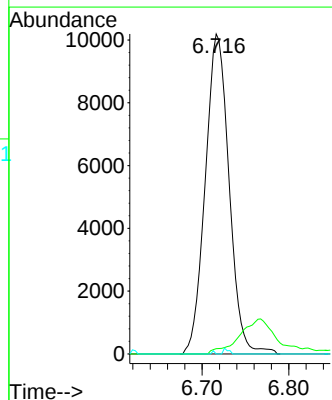
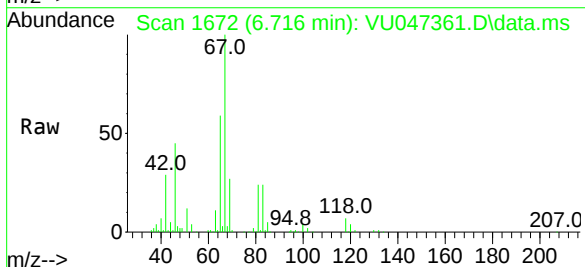
Tgt Ion: 83 Resp: 19458

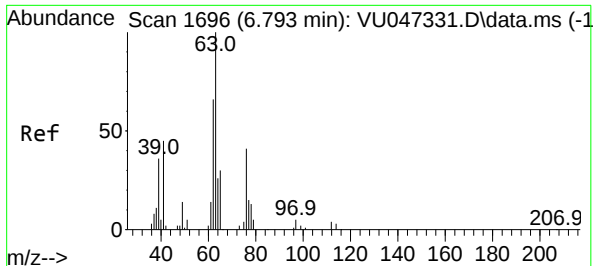
Ion Ratio Lower Upper

83 100

55 16.7 61.9 92.9#

98 0.0 39.0 58.6#





#37

1,2-Dichloropropane

Concen: 0.146 ug/L

RT: 6.816 min Scan# 11

Delta R.T. 0.023 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

Instrument :

MSVOA_U

ClientSampleId :

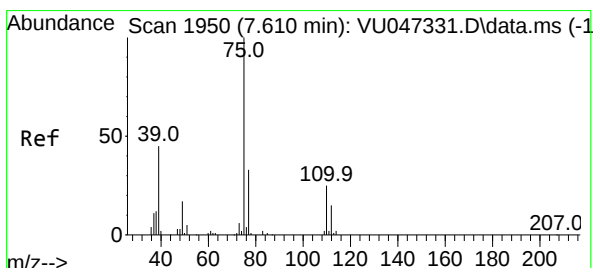
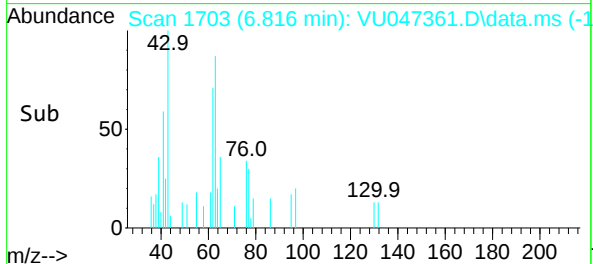
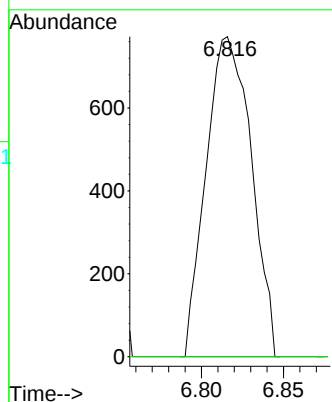
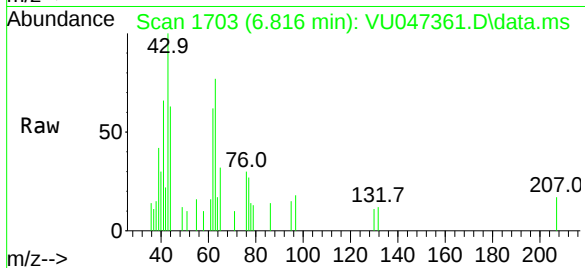
BFY19

Tgt Ion: 63 Resp: 1478

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.140 ug/L

RT: 7.584 min Scan# 1942

Delta R.T. -0.026 min

Lab File: VU047361.D

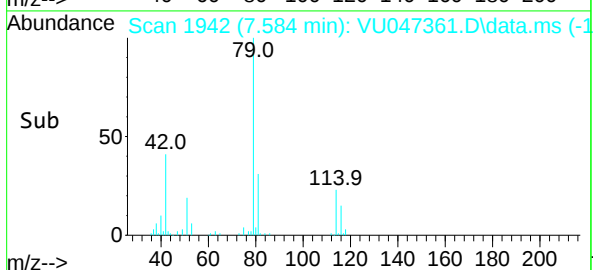
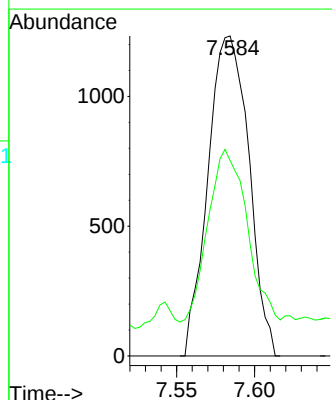
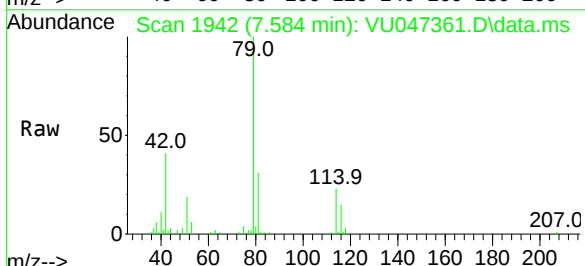
Acq: 07 Mar 2022 12:46

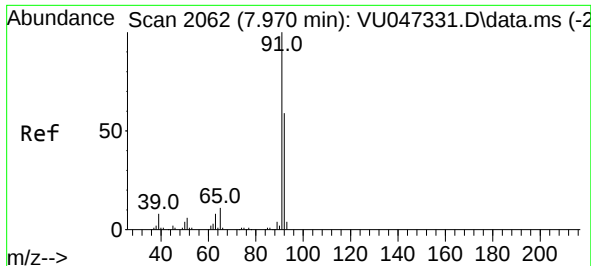
Tgt Ion: 75 Resp: 2248

Ion Ratio Lower Upper

75 100

77 61.1 22.5 41.9#





#42

Toluene

Concen: 0.262 ug/L

RT: 7.983 min Scan# 2062

Delta R.T. 0.013 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

Instrument :

MSVOA_U

ClientSampleId :

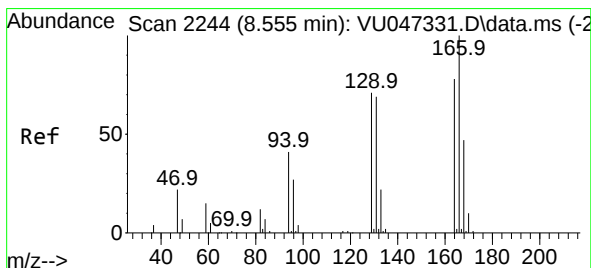
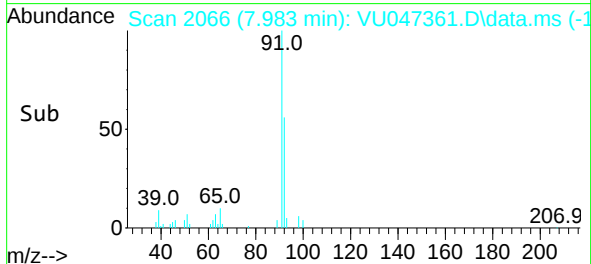
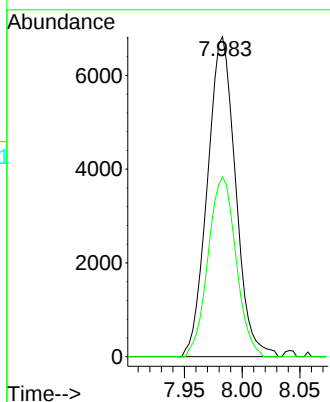
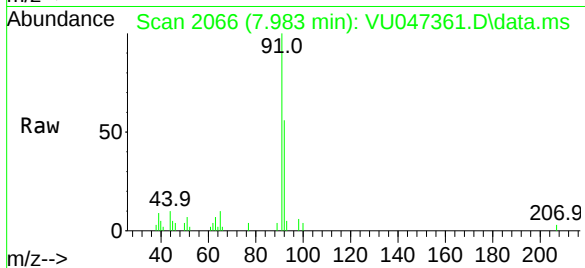
BFY19

Tgt Ion: 91 Resp: 11590

Ion Ratio Lower Upper

91 100

92 56.2 41.3 76.7



#47

Tetrachloroethene

Concen: 85.008 ug/L

RT: 8.562 min Scan# 2246

Delta R.T. 0.006 min

Lab File: VU047361.D

Acq: 07 Mar 2022 12:46

Tgt Ion: 164 Resp: 775857

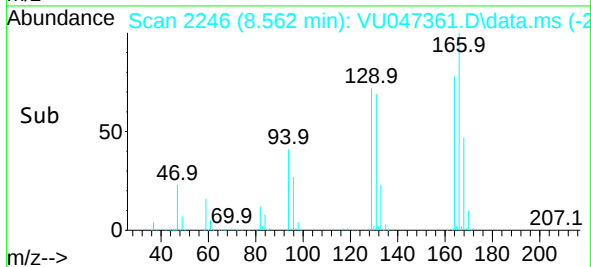
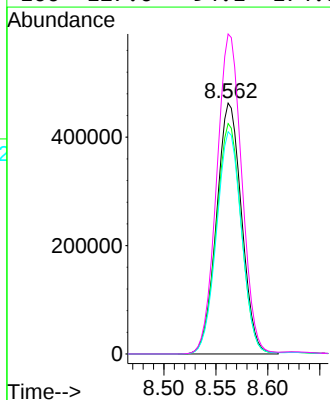
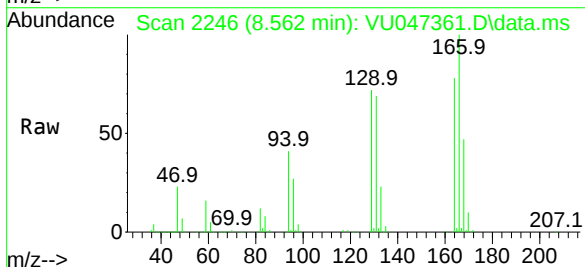
Ion Ratio Lower Upper

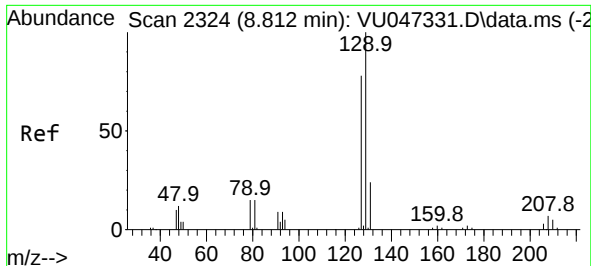
164 100

129 91.8 71.8 133.4

131 88.6 68.5 127.3

166 127.6 94.1 174.8

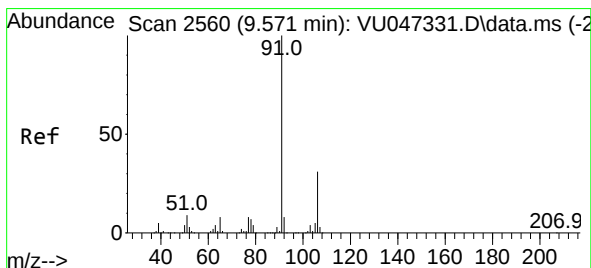
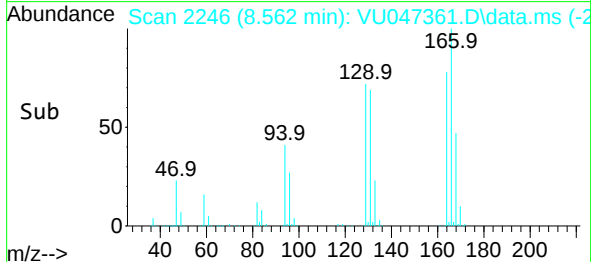
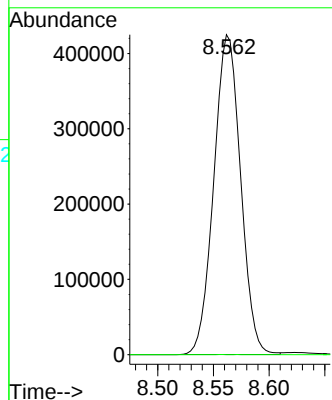
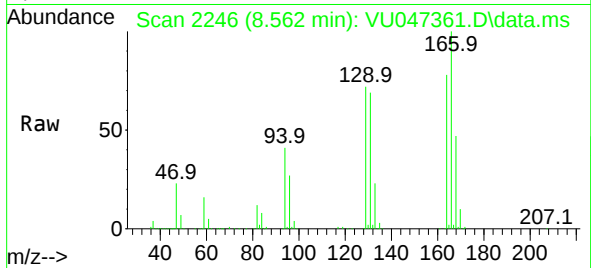




#49
Dibromochloromethane
Concen: 69.064 ug/L
RT: 8.562 min Scan# 21
Delta R.T. -0.251 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

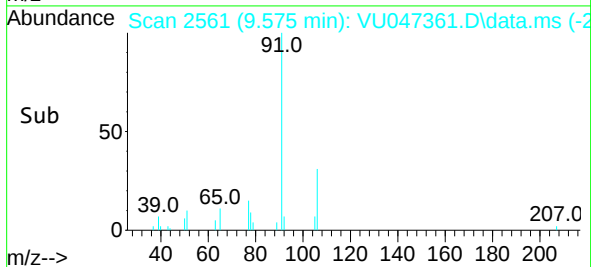
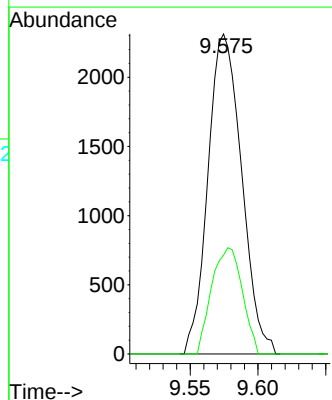
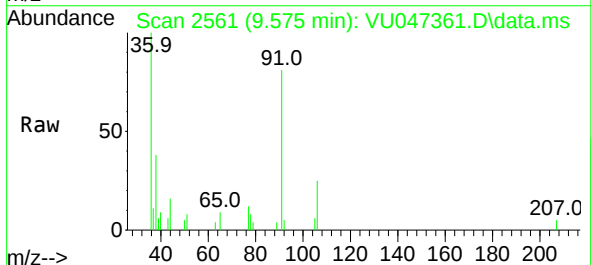
Instrument :
MSVOA_U
ClientSampleId :
BFY19

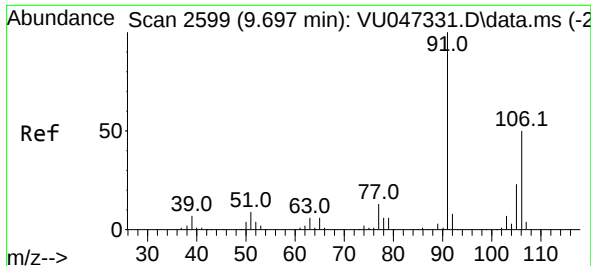
Tgt Ion:129 Resp: 710507
Ion Ratio Lower Upper
129 100
127 0.0 55.4 102.8#



#52
Ethylbenzene
Concen: 0.084 ug/L
RT: 9.575 min Scan# 2561
Delta R.T. 0.003 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Tgt Ion: 91 Resp: 3993
Ion Ratio Lower Upper
91 100
106 30.9 21.5 39.9

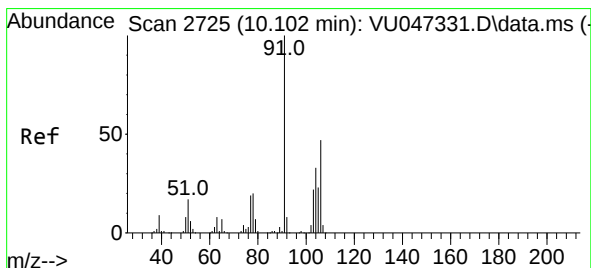
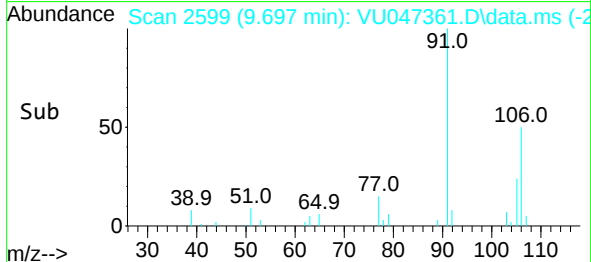
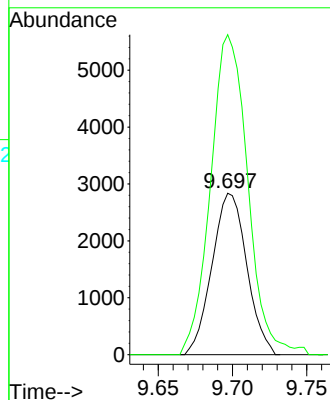
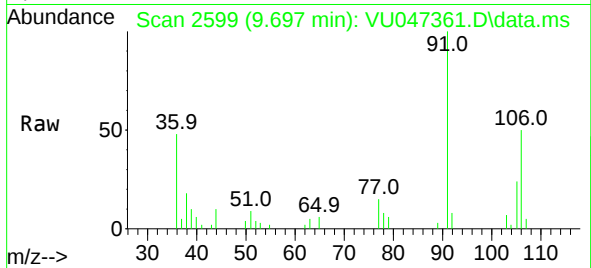




#53
m,p-Xylene
Concen: 0.246 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

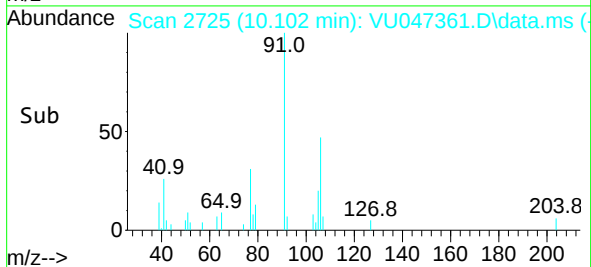
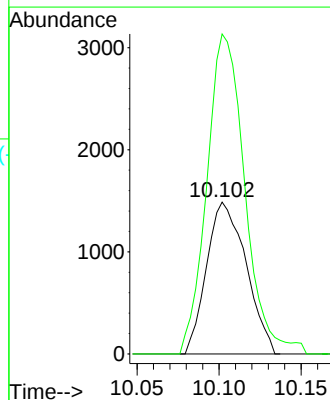
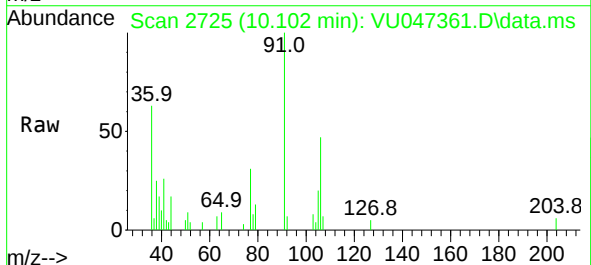
Instrument :
MSVOA_U
ClientSampleId :
BFY19

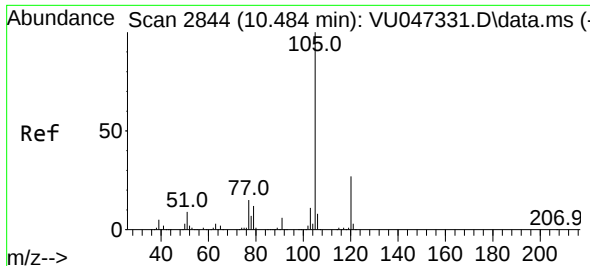
Tgt Ion:106 Resp: 4621
Ion Ratio Lower Upper
106 100
91 198.2 139.4 259.0



#54
o-Xylene
Concen: 0.137 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.000 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Tgt Ion:106 Resp: 2482
Ion Ratio Lower Upper
106 100
91 210.8 147.5 273.9

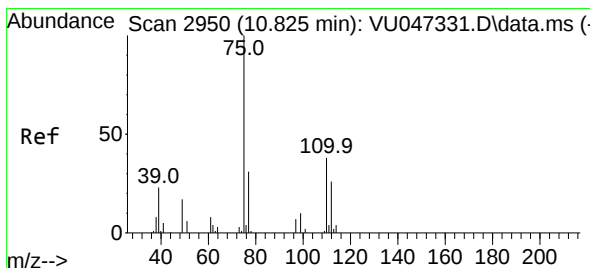
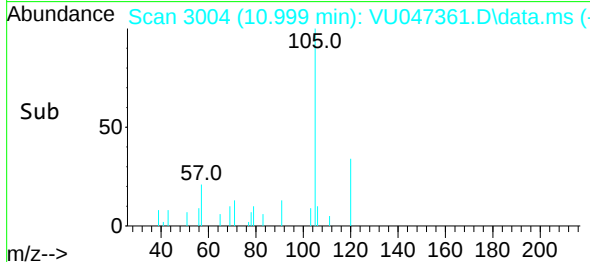
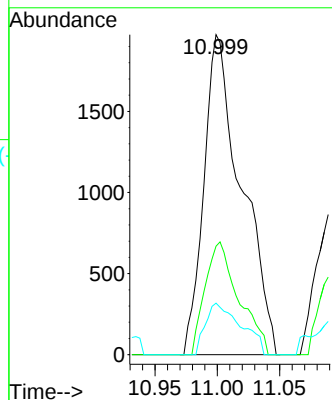
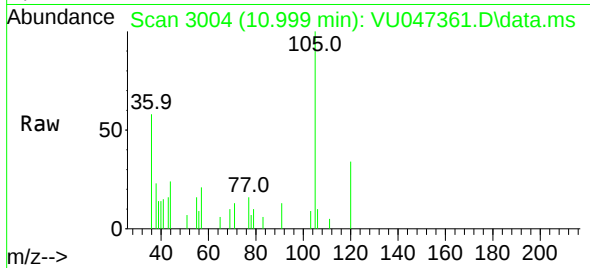




#60
Isopropylbenzene
Concen: 0.093 ug/L
RT: 10.999 min Scan# 3004
Delta R.T. 0.514 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

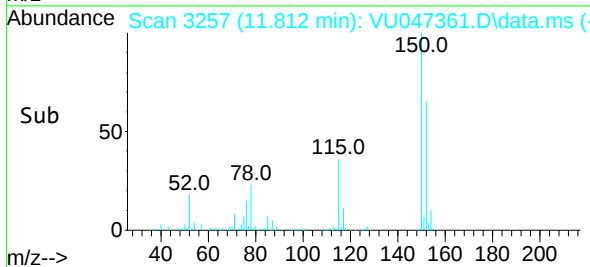
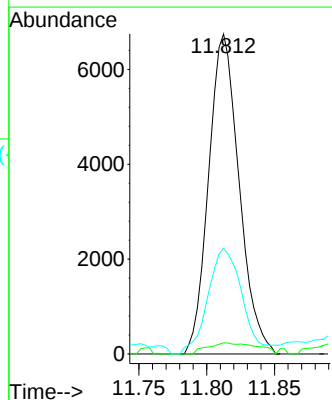
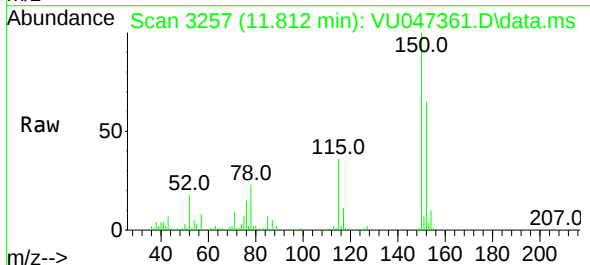
Instrument :
MSVOA_U
ClientSampleId :
BFY19

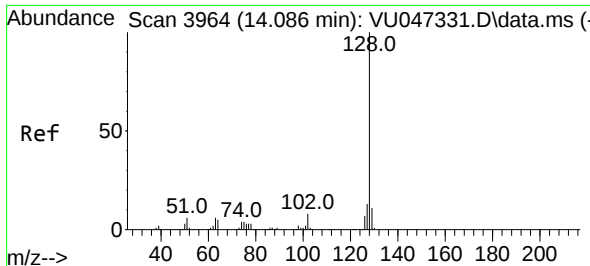
Tgt Ion:105 Resp: 4139
Ion Ratio Lower Upper
105 100
120 31.7 20.7 31.1#
77 15.3 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 1.276 ug/L
RT: 11.812 min Scan# 3257
Delta R.T. 0.987 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Tgt Ion: 75 Resp: 10546
Ion Ratio Lower Upper
75 100
110 5.7 29.9 44.9#
77 37.4 25.5 38.3

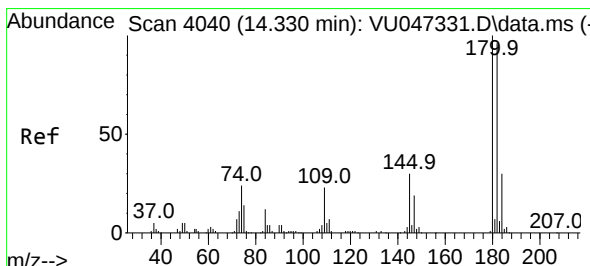
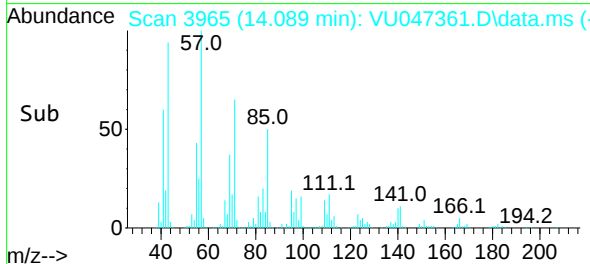
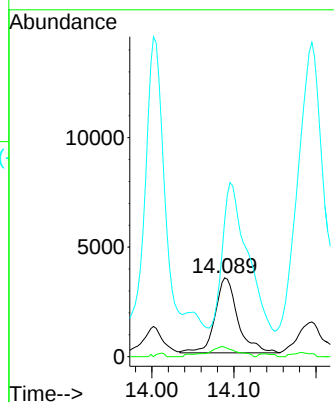
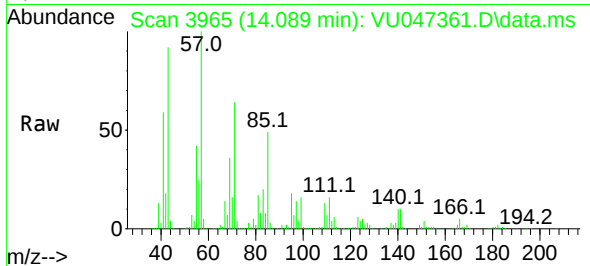




#71
Naphthalene
Concen: 0.183 ug/L
RT: 14.089 min Scan# 3964
Delta R.T. 0.003 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Instrument :
MSVOA_U
ClientSampleId :
BFY19

Tgt Ion:128 Resp: 6594
Ion Ratio Lower Upper
128 100
129 17.1 8.4 12.6#
127 213.3 10.2 15.2#



#72
1,2,3-Trichlorobenzene
Concen: 1.417 ug/L
RT: 14.352 min Scan# 4047
Delta R.T. 0.023 min
Lab File: VU047361.D
Acq: 07 Mar 2022 12:46

Tgt Ion:180 Resp: 23889
Ion Ratio Lower Upper
180 100
182 22.3 76.2 114.4#
145 0.4 28.4 42.6#

