

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021822\
 Data File : VU047219.D
 Acq On : 17 Feb 2022 21:11
 Operator : SY/MD
 Sample : N1545-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFY03

Quant Time: Feb 18 03:36:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021622WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Feb 18 03:32:37 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	152543	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	159970	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	91473	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	59081	4.586	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.800%
7) Chloroethane-d5	1.916	69	50393	4.936	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.800%
11) 1,1-Dichloroethene-d2	2.571	65	24249	4.551	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.000%
20) 2-Butanone-d5	4.642	46	153826	49.954	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.900%
24) Chloroform-d	5.067	84	104612	4.888	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.800%
26) 1,2-Dichloroethane-d4	5.706	65	55189	4.638	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.800%
32) Benzene-d6	5.732	84	214212	4.793	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.800%
36) 1,2-Dichloropropane-d6	6.694	67	68737	4.833	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.600%
41) Toluene-d8	7.902	98	203610	4.657	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.200%
43) trans-1,3-Dichloroprop...	8.182	79	27381	4.247	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.000%
46) 2-Hexanone-d5	8.636	63	140815	41.481	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.960%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	56938	4.405	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.000%
66) 1,2-Dichlorobenzene-d4	12.195	152	80307	4.893	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	83228	5.889	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.581	101	3772	0.363	ug/L #	32
12) 1,1-Dichloroethene	2.584	96	1196915	119.240	ug/L #	58
13) Acetone	2.668	43	11366	7.373	ug/L	86
15) Methyl Acetate	2.967	43	1548	0.324	ug/L #	51
17) Methyl tert-butyl Ether	3.369	73	10533	0.384	ug/L #	74
18) trans-1,2-Dichloroethene	3.359	96	8266	0.762	ug/L	95
19) 1,1-Dichloroethane	3.877	63	295599	15.587	ug/L	100
21) 2-Butanone	4.732	43	3538	1.222	ug/L	98
22) cis-1,2-Dichloroethene	4.671	96	2063220	174.745	ug/L	98
25) Chloroform	5.092	83	17661	0.889	ug/L	98
27) 1,2-Dichloroethane	5.800	62	17803	1.341	ug/L	99
29) 1,1,1-Trichloroethane	5.321	97	341784	19.731	ug/L	99
31) Carbon tetrachloride	5.321	117	45768	3.035	ug/L	97
33) Benzene	5.777	78	19600	0.431	ug/L	100
34) Trichloroethene	6.546	95	747900	61.687	ug/L	95
35) Methylcyclohexane	6.694	83	15907	0.777	ug/L #	26
37) 1,2-Dichloropropane	6.796	63	4947	0.421	ug/L #	93
39) cis-1,3-Dichloropropene	7.568	75	1851	0.101	ug/L #	54

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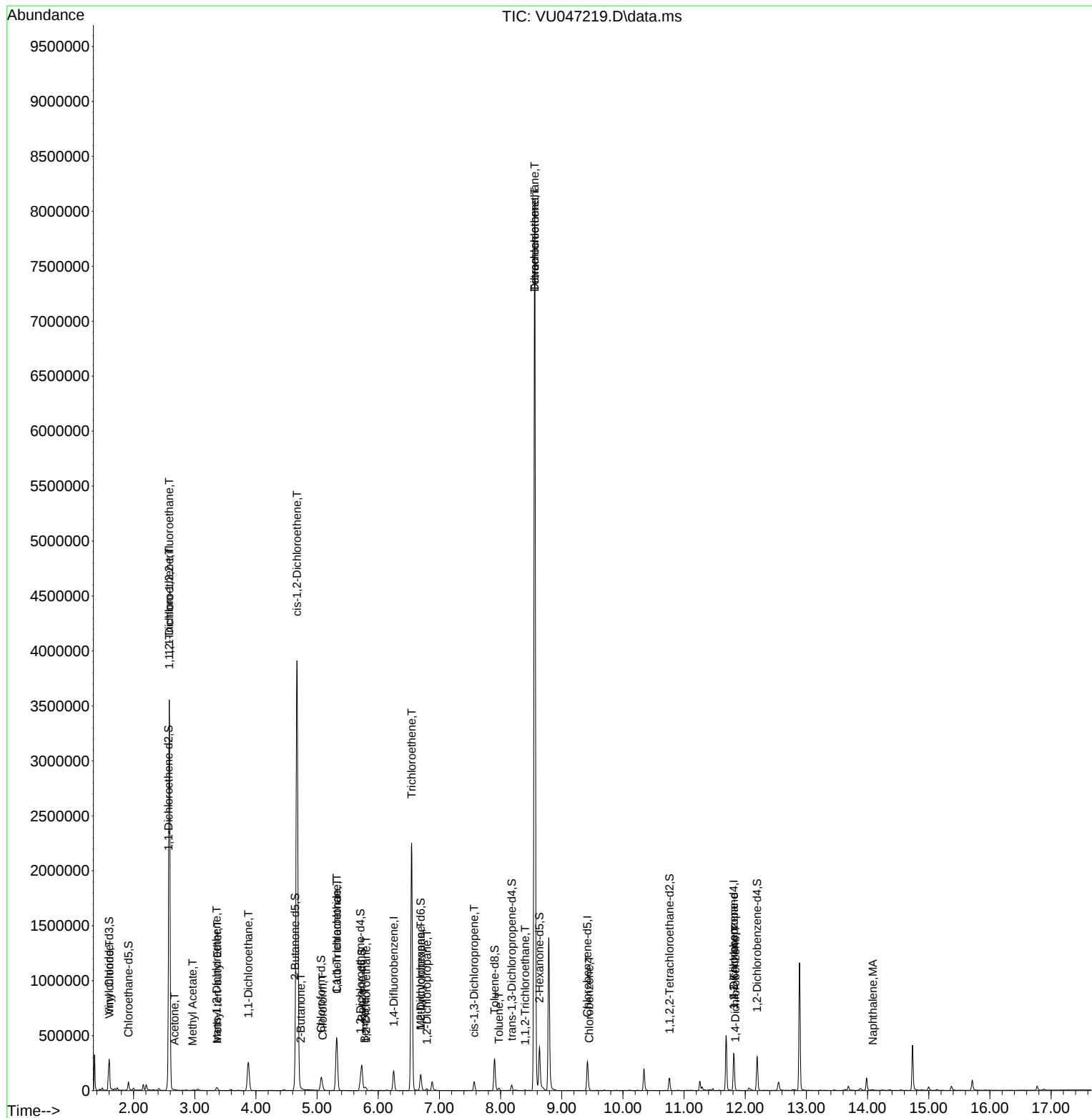
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.973	91	16586	0.328	ug/L	100
45) 1,1,2-Trichloroethane	8.401	97	1863	0.204	ug/L	95
47) Tetrachloroethene	8.558	164	1834134	186.414	ug/L	94
49) Dibromochloromethane	8.558	129	1743398	158.621	ug/L #	10
51) Chlorobenzene	9.449	112	2687	0.082	ug/L	95
61) 1,2,3-Trichloropropane	11.815	75	10694	1.224	ug/L #	68
65) 1,4-Dichlorobenzene	11.838	146	3463	0.132	ug/L	93
71) Naphthalene	14.089	128	4223	0.103	ug/L	96

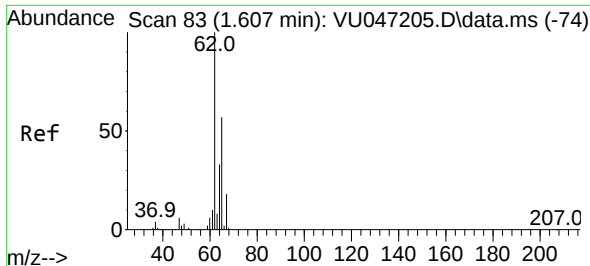
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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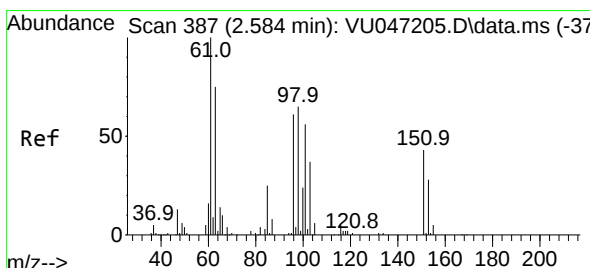
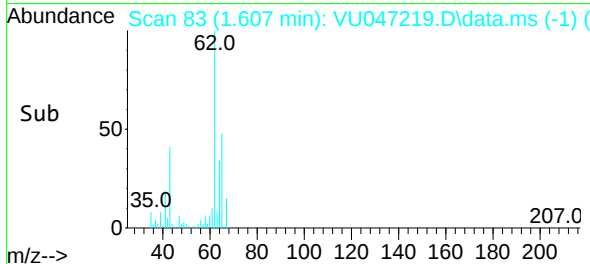
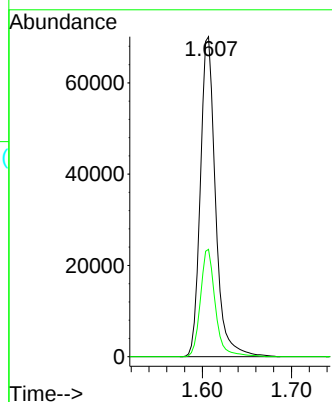
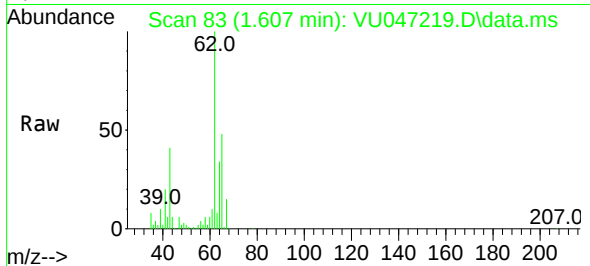




#5
 Vinyl chloride
 Concen: 5.889 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU047219.D
 Acq: 17 Feb 2022 21:11

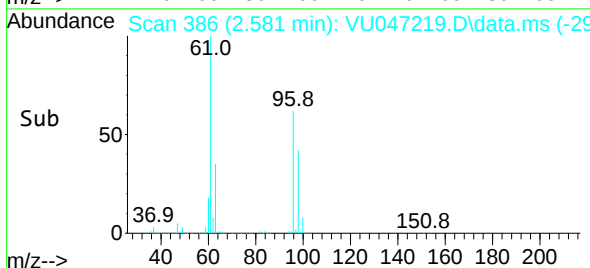
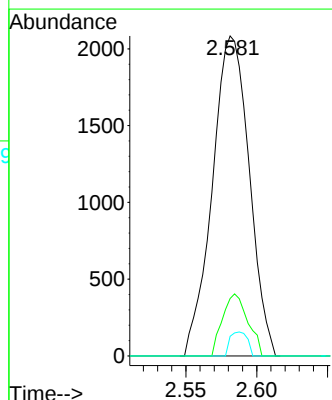
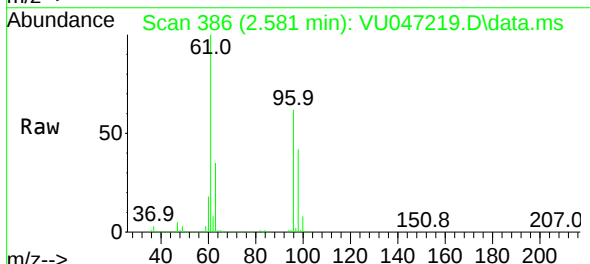
Instrument :
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 ClientSampleId :
 BFY03

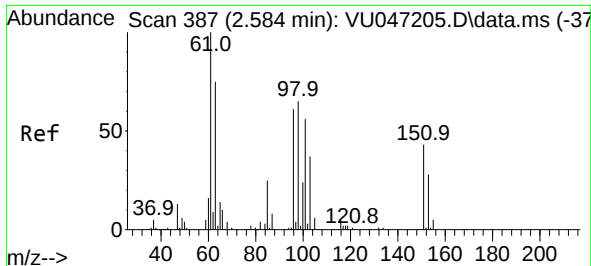
Tgt Ion: 62 Resp: 83228
 Ion Ratio Lower Upper
 62 100
 64 33.5 22.9 42.5



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.363 ug/L
 RT: 2.581 min Scan# 386
 Delta R.T. -0.003 min
 Lab File: VU047219.D
 Acq: 17 Feb 2022 21:11

Tgt Ion: 101 Resp: 3772
 Ion Ratio Lower Upper
 101 100
 85 13.3 34.6 51.8#
 151 3.5 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 119.240 ug/L

RT: 2.584 min Scan# 387

Delta R.T. 0.000 min

Lab File: VU047219.D

Acq: 17 Feb 2022 21:11

Instrument :

MSVOA_U

ClientSampleId :

BFY03

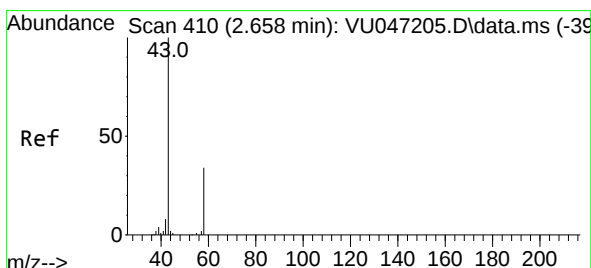
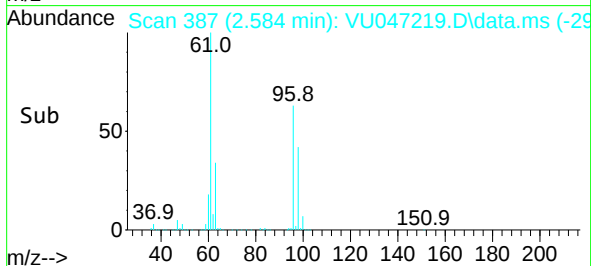
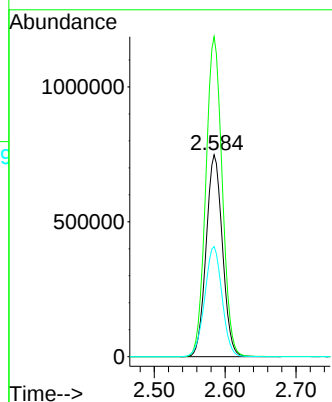
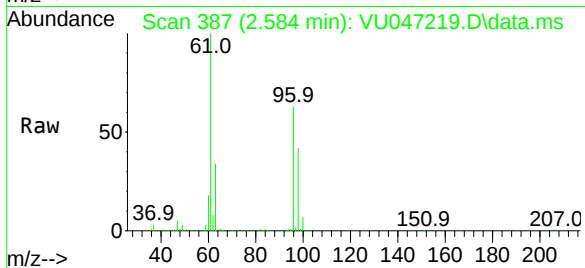
Tgt Ion: 96 Resp: 1196915

Ion Ratio Lower Upper

96 100

61 158.5 124.7 231.5

63 54.6 105.2 195.4#



#13

Acetone

Concen: 7.373 ug/L

RT: 2.668 min Scan# 413

Delta R.T. 0.010 min

Lab File: VU047219.D

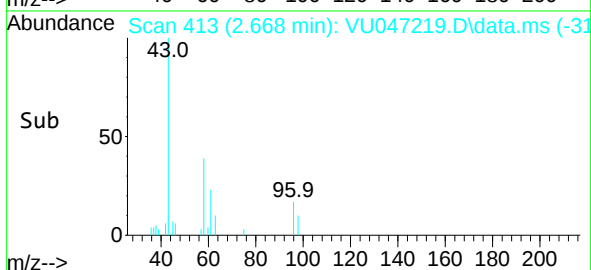
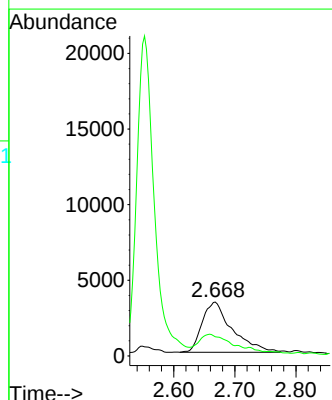
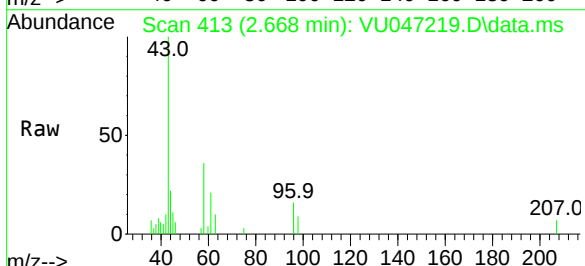
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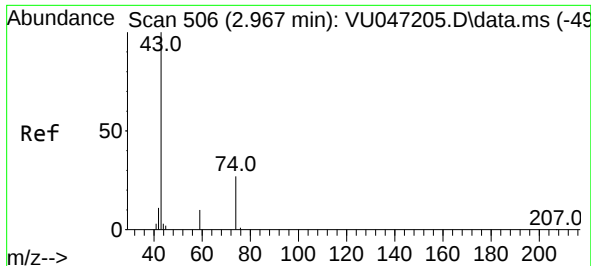
Tgt Ion: 43 Resp: 11366

Ion Ratio Lower Upper

43 100

58 27.6 0.0 71.6

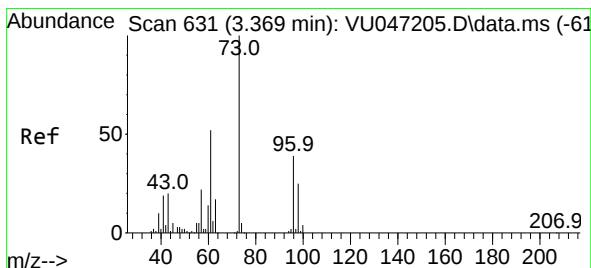
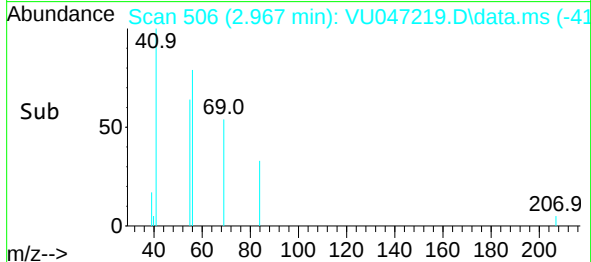
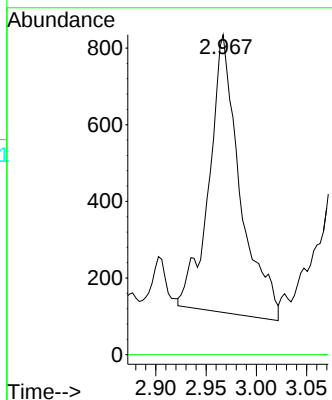
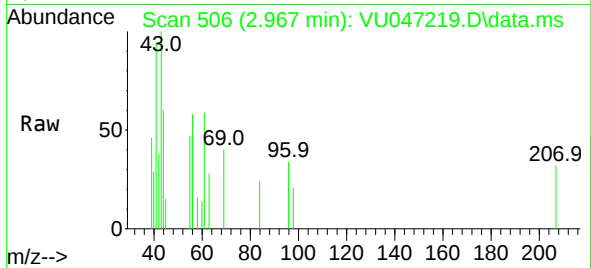




#15
Methyl Acetate
Concen: 0.324 ug/L
RT: 2.967 min Scan# 506
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

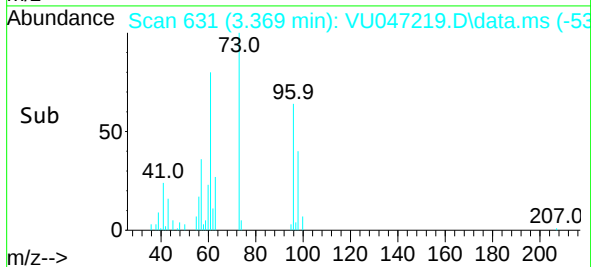
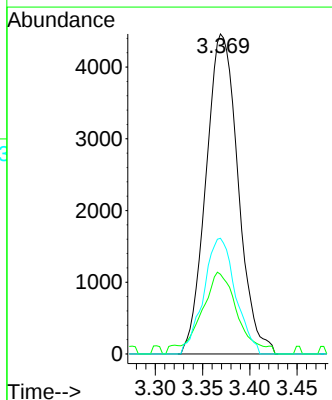
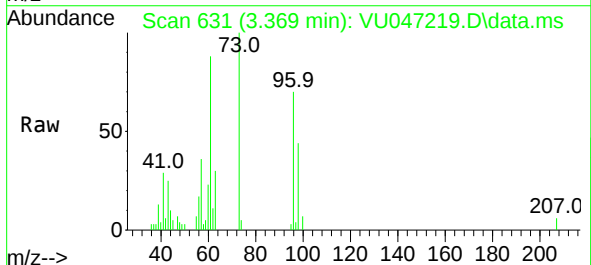
Instrument :
MSVOA_U
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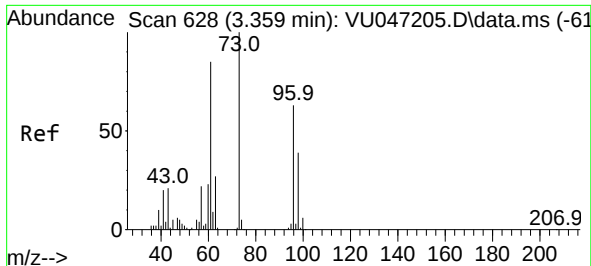
Tgt Ion: 43 Resp: 1548
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#



#17
Methyl tert-butyl Ether
Concen: 0.384 ug/L
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Tgt Ion: 73 Resp: 10533
Ion Ratio Lower Upper
73 100
43 27.7 14.8 22.2#
57 35.8 17.4 26.0#

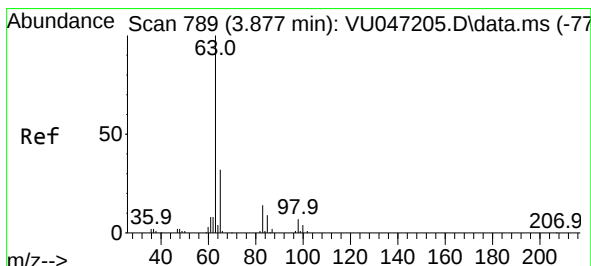
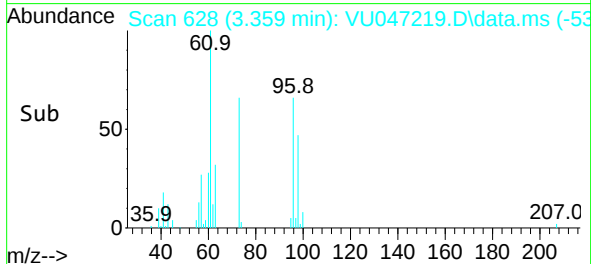
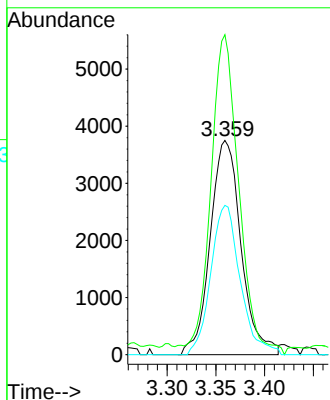
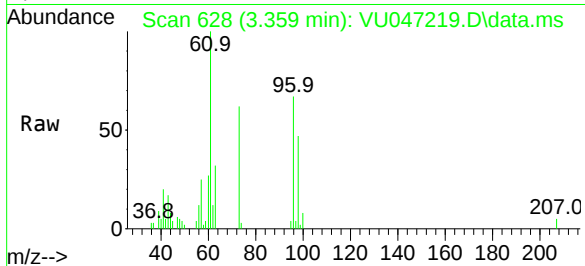




#18
trans-1,2-Dichloroethene
Concen: 0.762 ug/L
RT: 3.359 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

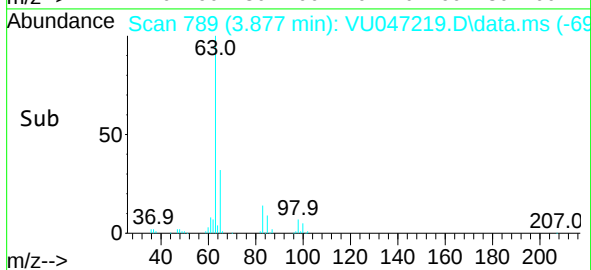
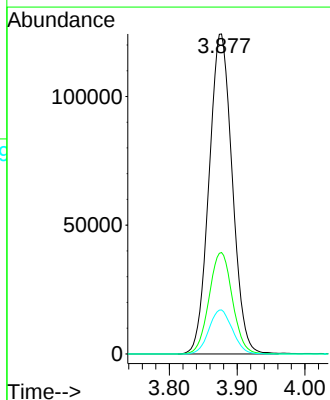
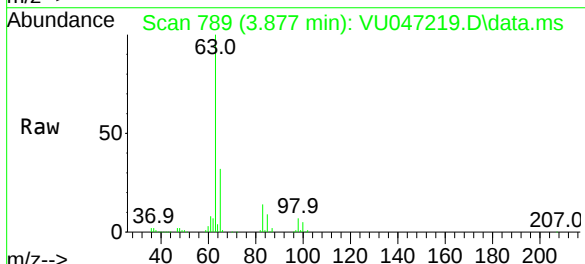
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ClientSampleId :
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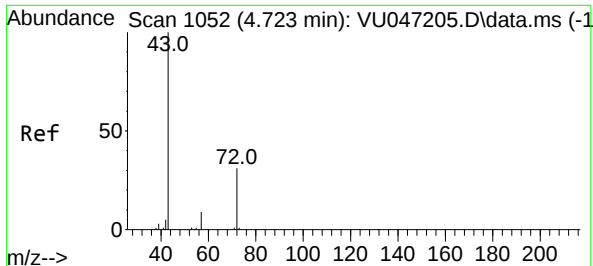
Tgt Ion: 96 Resp: 8266
Ion Ratio Lower Upper
96 100
61 149.4 100.8 187.2
98 69.7 45.1 83.7



#19
1,1-Dichloroethane
Concen: 15.587 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Tgt Ion: 63 Resp: 295599
Ion Ratio Lower Upper
63 100
65 31.7 22.3 41.5
83 13.8 9.6 17.8

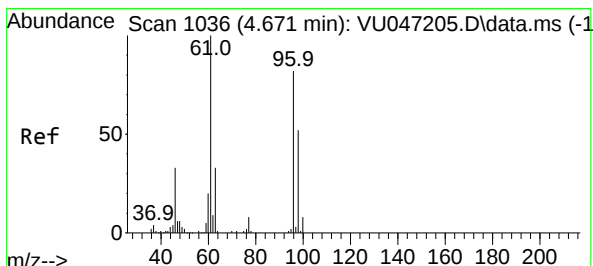
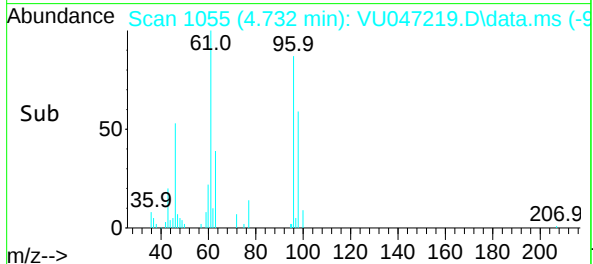
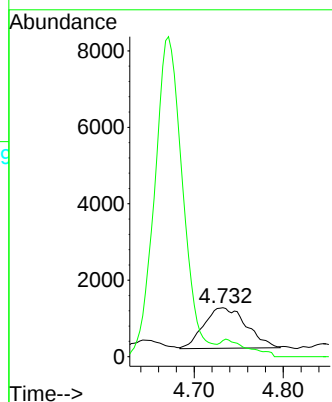
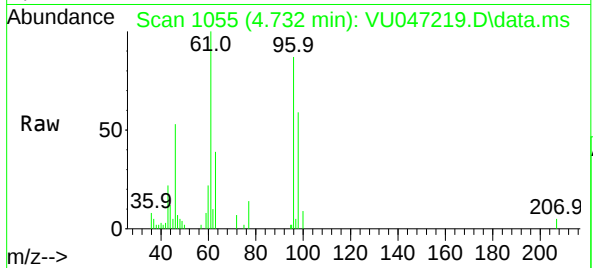




#21
2-Butanone
Concen: 1.222 ug/L
RT: 4.732 min Scan# 1055
Delta R.T. 0.010 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

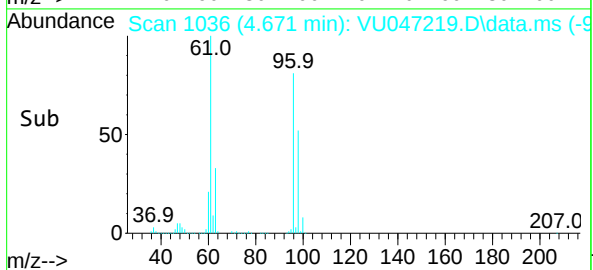
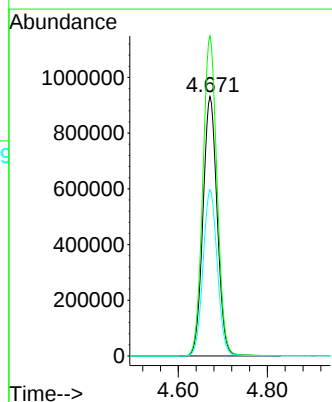
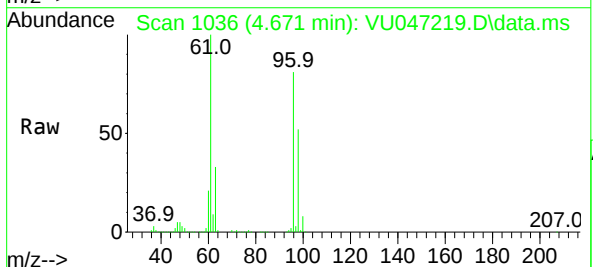
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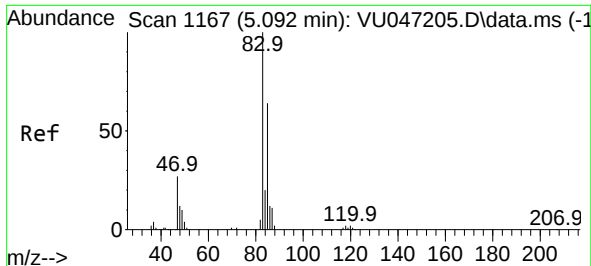
Tgt Ion: 43 Resp: 3538
Ion Ratio Lower Upper
43 100
72 27.2 14.1 42.3



#22
cis-1,2-Dichloroethene
Concen: 174.745 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Tgt Ion: 96 Resp: 2063220
Ion Ratio Lower Upper
96 100
61 123.4 88.5 164.3
98 64.1 44.4 82.5

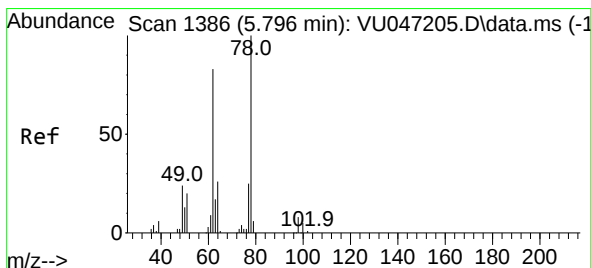
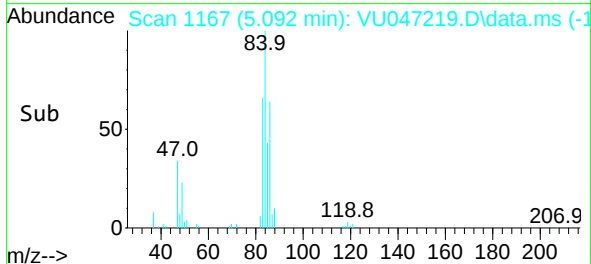
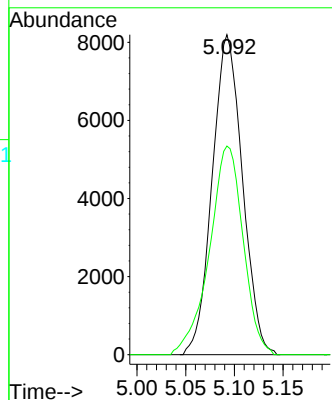
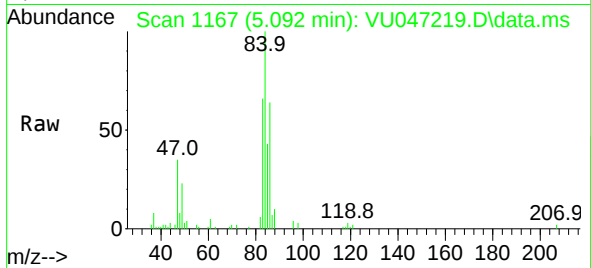




#25
Chloroform
Concen: 0.889 ug/L
RT: 5.092 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VU047219.D
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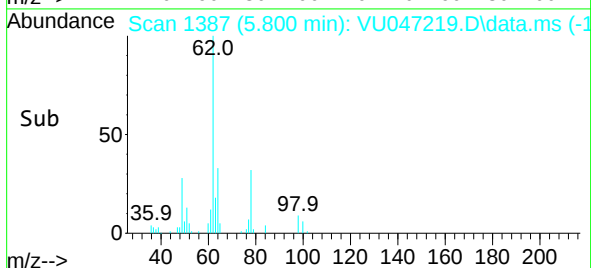
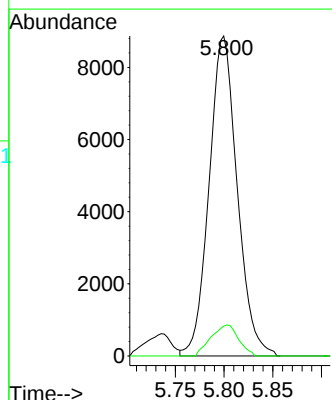
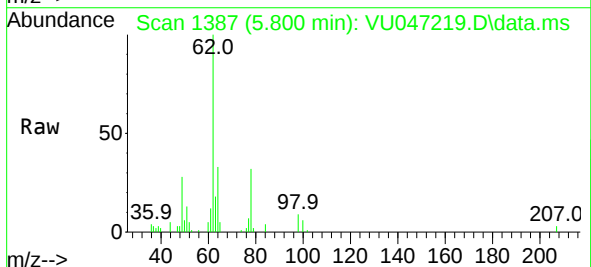
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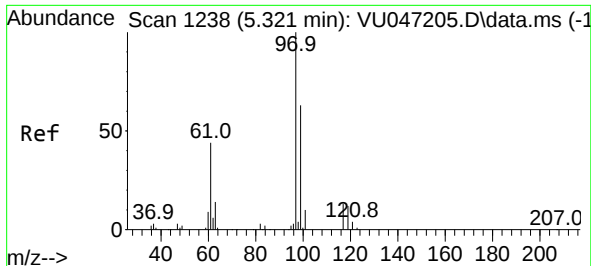
Tgt Ion: 83 Resp: 17661
Ion Ratio Lower Upper
83 100
85 65.2 46.9 87.1



#27
1,2-Dichloroethane
Concen: 1.341 ug/L
RT: 5.800 min Scan# 1387
Delta R.T. 0.003 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Tgt Ion: 62 Resp: 17803
Ion Ratio Lower Upper
62 100
98 9.4 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 19.731 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU047219.D

Acq: 17 Feb 2022 21:11

Instrument :

MSVOA_U

ClientSampleId :

BFY03

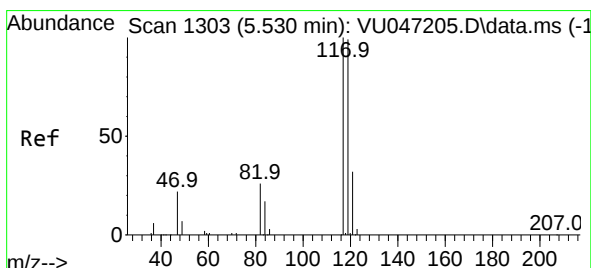
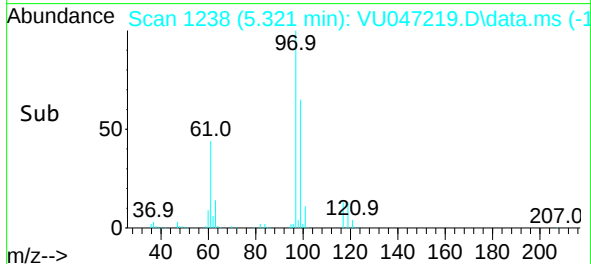
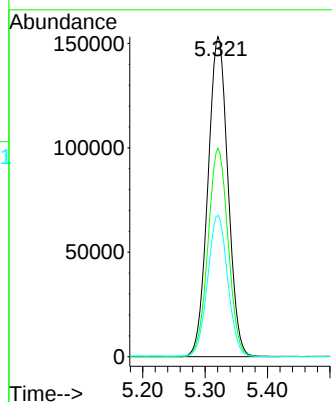
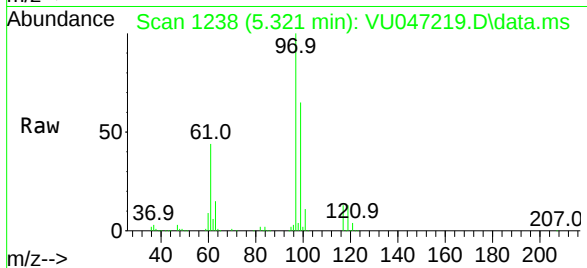
Tgt Ion: 97 Resp: 341784

Ion Ratio Lower Upper

97 100

99 65.4 51.3 76.9

61 44.7 36.1 54.1



#31

Carbon tetrachloride

Concen: 3.035 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU047219.D

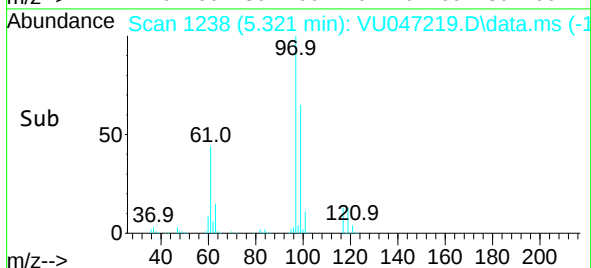
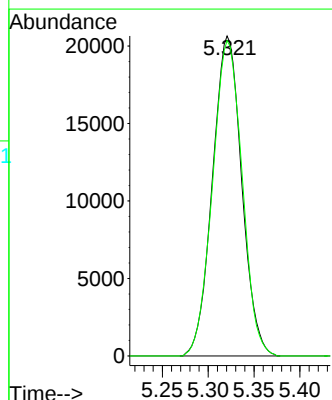
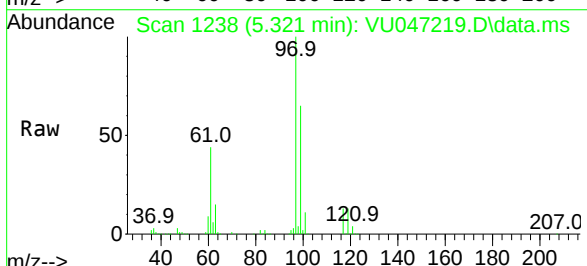
Acq: 17 Feb 2022 21:11

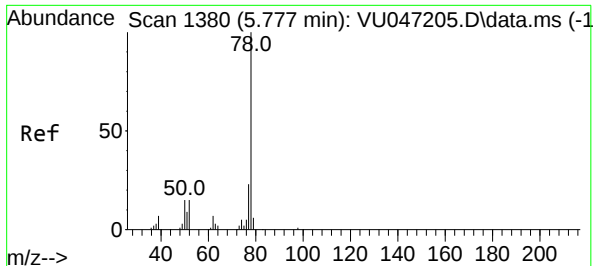
Tgt Ion: 117 Resp: 45768

Ion Ratio Lower Upper

117 100

119 99.7 77.5 116.3

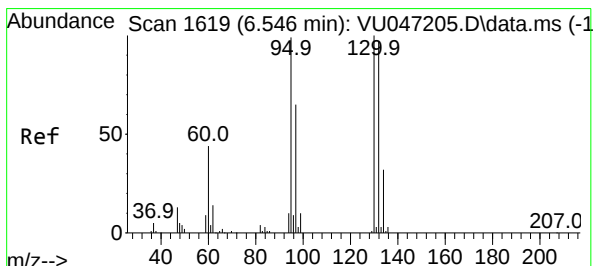
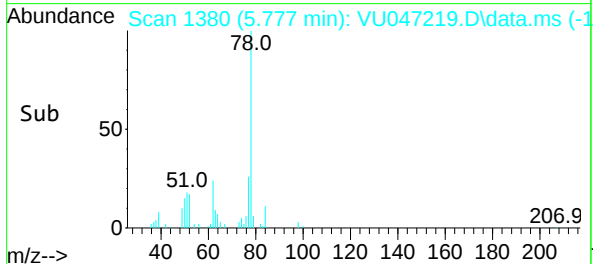
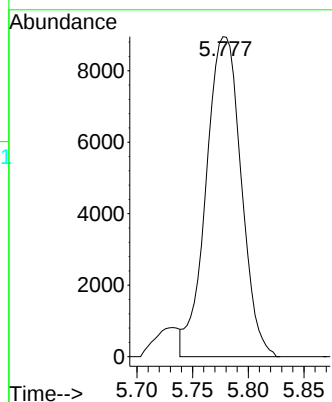
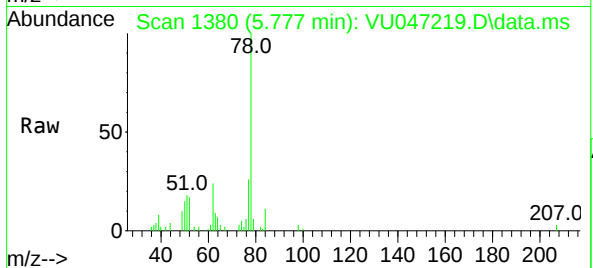




#33
Benzene
Concen: 0.431 ug/L
RT: 5.777 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Instrument :
MSVOA_U
ClientSampleId :
BFY03

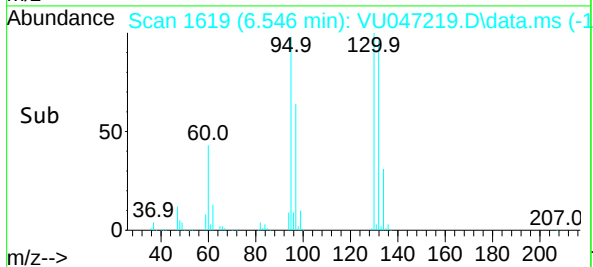
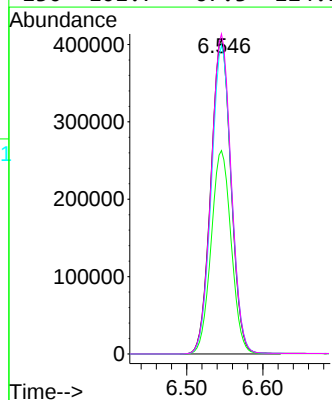
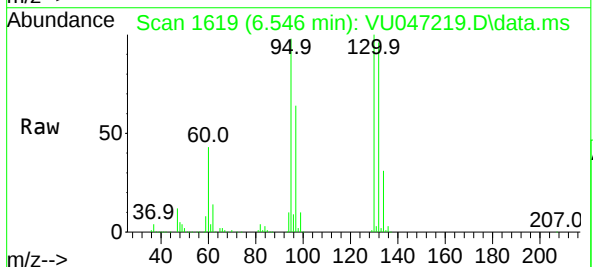
Tgt Ion: 78 Resp: 19600

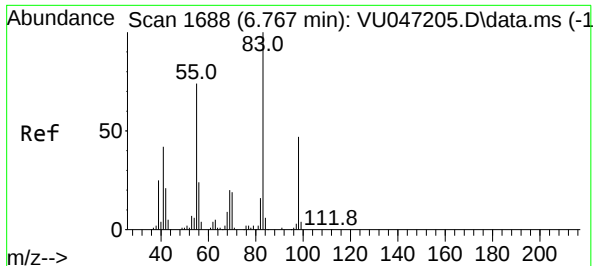


#34
Trichloroethene
Concen: 61.687 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Tgt Ion: 95 Resp: 747900

Ion	Ratio	Lower	Upper
95	100		
97	64.6	46.5	86.5
132	98.1	65.1	120.9
130	101.7	67.3	124.9

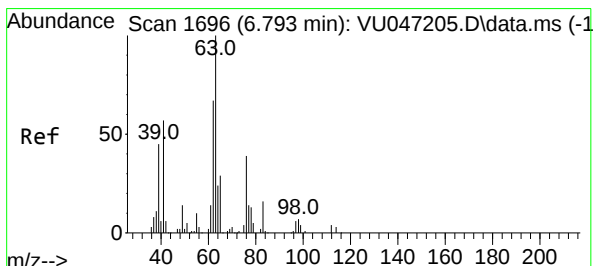
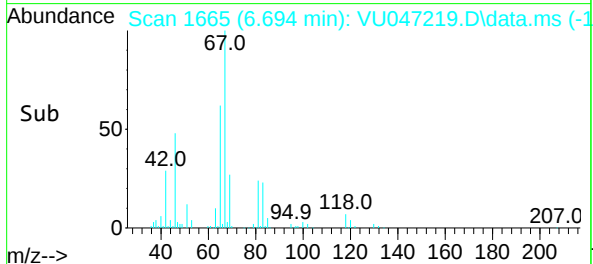
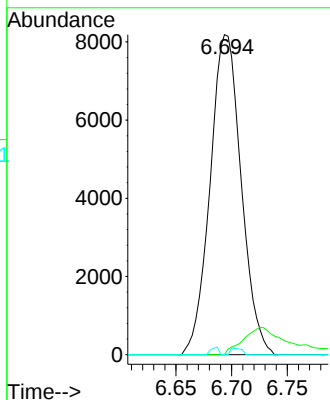
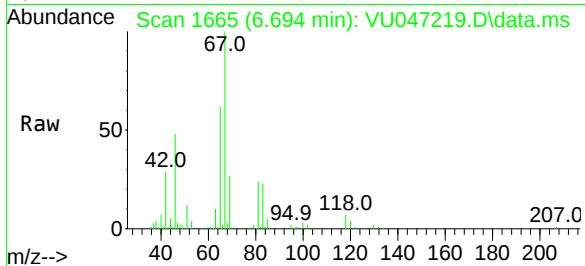




#35
Methylcyclohexane
Concen: 0.777 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.074 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

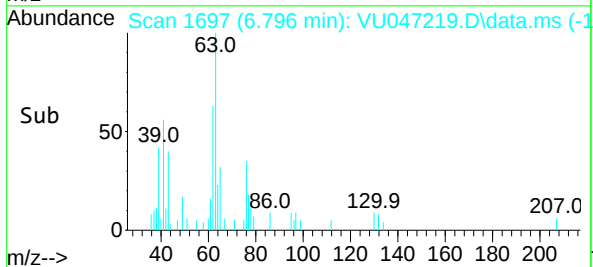
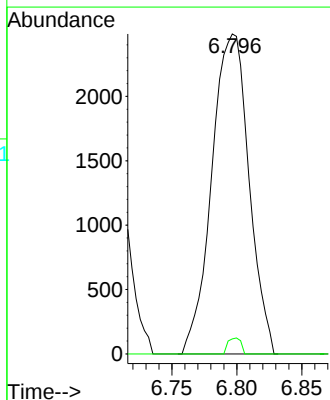
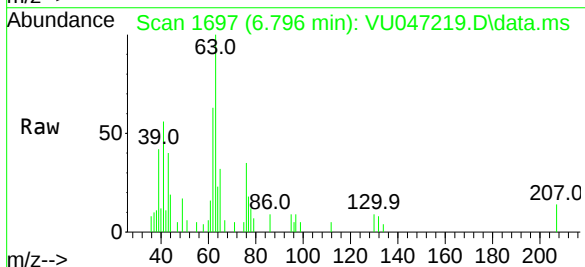
Instrument :
MSVOA_U
ClientSampleId :
BFY03

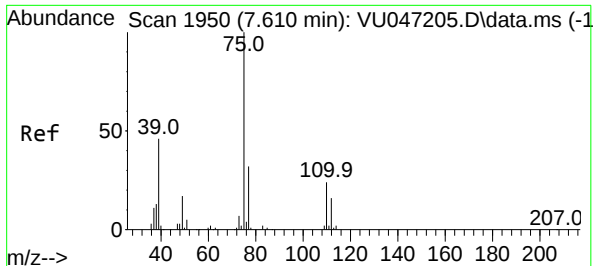
Tgt Ion: 83 Resp: 15907
Ion Ratio Lower Upper
83 100
55 12.2 61.9 92.9#
98 0.0 39.0 58.6#



#37
1,2-Dichloropropane
Concen: 0.421 ug/L
RT: 6.796 min Scan# 1697
Delta R.T. 0.003 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Tgt Ion: 63 Resp: 4947
Ion Ratio Lower Upper
63 100
112 1.7 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.101 ug/L

RT: 7.568 min Scan# 1950

Delta R.T. -0.042 min

Lab File: VU047219.D

Acq: 17 Feb 2022 21:11

Instrument :

MSVOA_U

ClientSampleId :

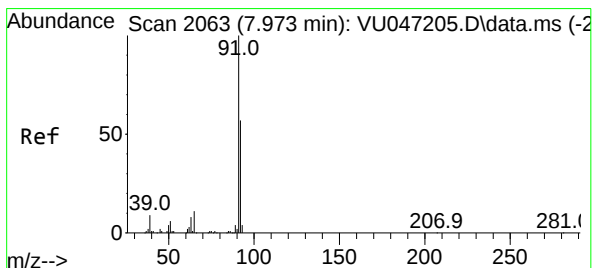
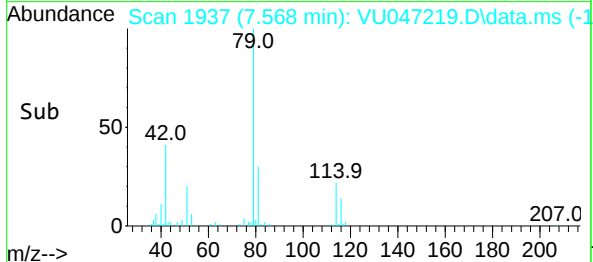
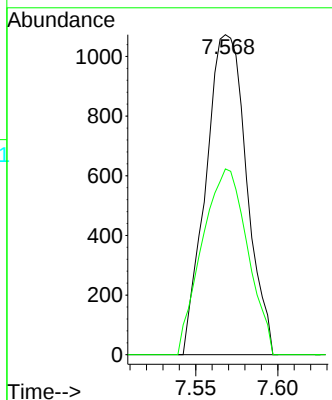
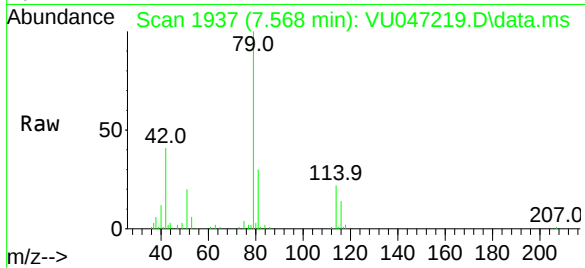
BFY03

Tgt Ion: 75 Resp: 1851

Ion Ratio Lower Upper

75 100

77 58.1 22.5 41.9#



#42

Toluene

Concen: 0.328 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. 0.000 min

Lab File: VU047219.D

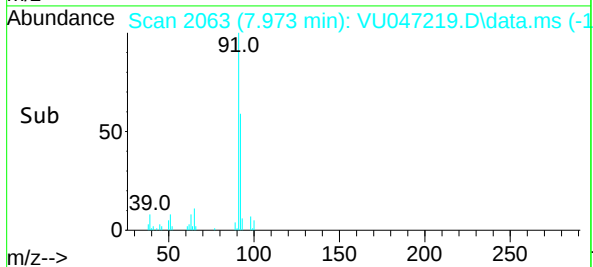
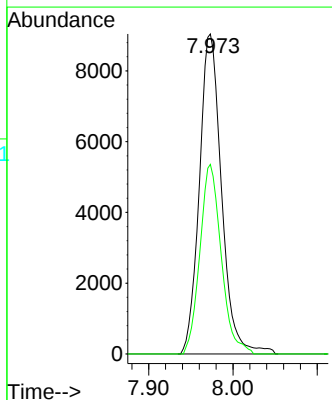
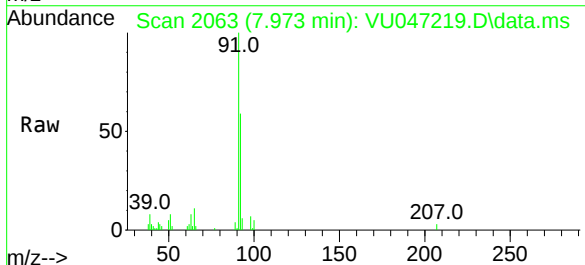
Acq: 17 Feb 2022 21:11

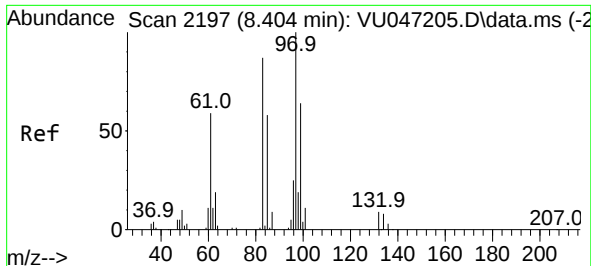
Tgt Ion: 91 Resp: 16586

Ion Ratio Lower Upper

91 100

92 59.3 41.3 76.7

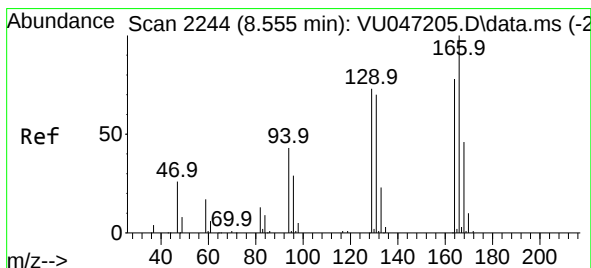
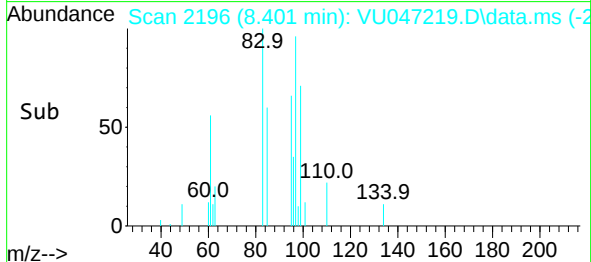
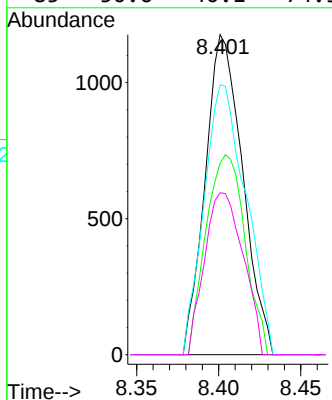
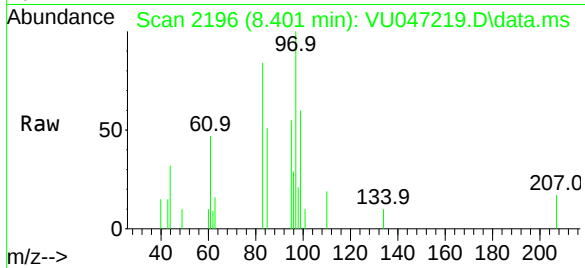




#45
1,1,2-Trichloroethane
Concen: 0.204 ug/L
RT: 8.401 min Scan# 2196
Delta R.T. -0.003 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

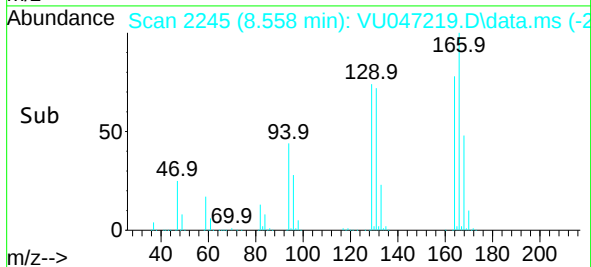
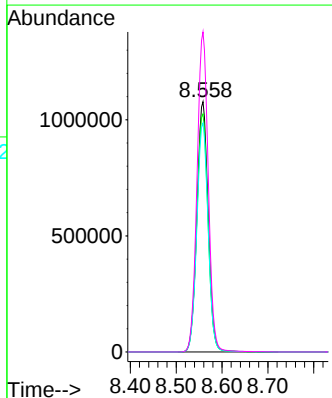
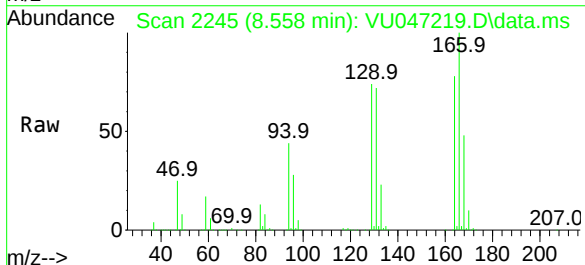
Instrument :
MSVOA_U
ClientSampleId :
BFY03

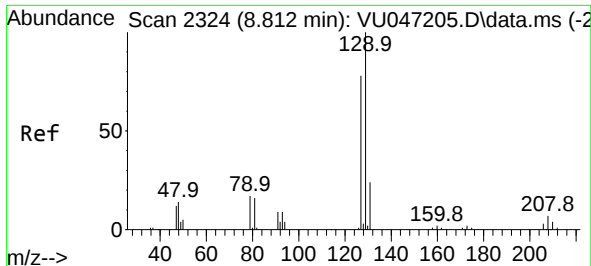
Tgt Ion: 97	Resp: 1863
Ion Ratio	Lower Upper
97 100	
99 59.8	42.3 78.5
83 84.4	62.0 115.2
85 50.6	40.1 74.5



#47
Tetrachloroethene
Concen: 186.414 ug/L
RT: 8.558 min Scan# 2245
Delta R.T. 0.003 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Tgt	Ion:164	Resp:	1834134
Ion	Ratio	Lower	Upper
164	100		
129	95.1	71.8	133.4
131	91.4	68.5	127.3
166	127.9	94.1	174.8





#49

Dibromochloromethane

Concen: 158.621 ug/L

RT: 8.558 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU047219.D

Acq: 17 Feb 2022 21:11

Instrument :

MSVOA_U

ClientSampleId :

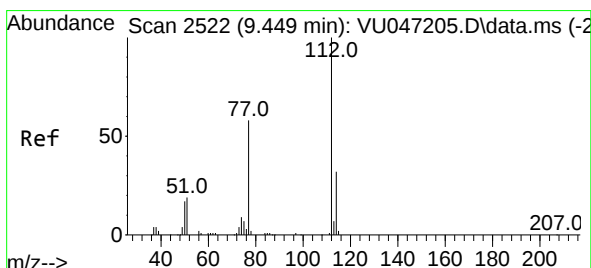
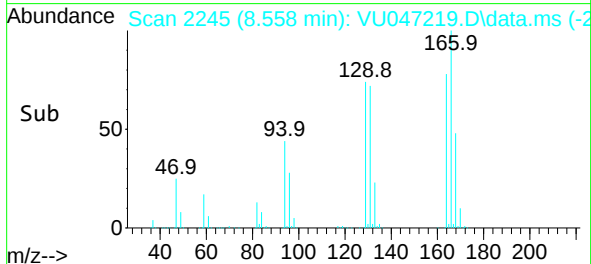
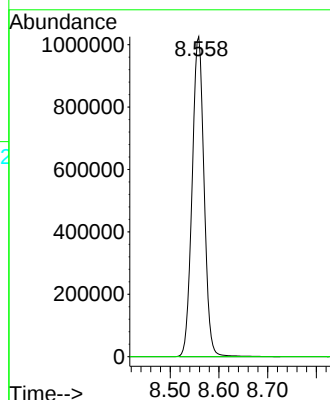
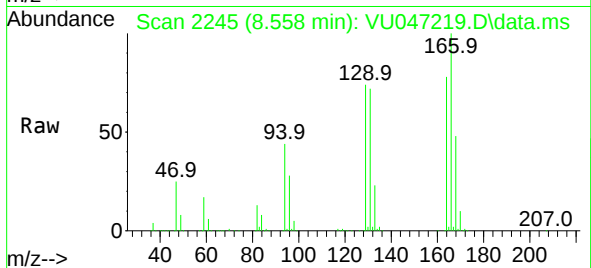
BFY03

Tgt Ion:129 Resp: 1743398

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#



#51

Chlorobenzene

Concen: 0.082 ug/L

RT: 9.449 min Scan# 2522

Delta R.T. 0.000 min

Lab File: VU047219.D

Acq: 17 Feb 2022 21:11

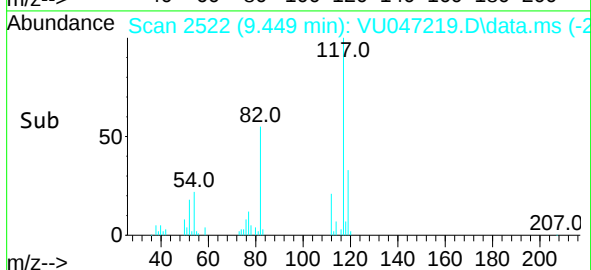
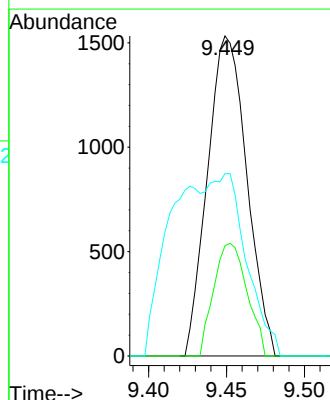
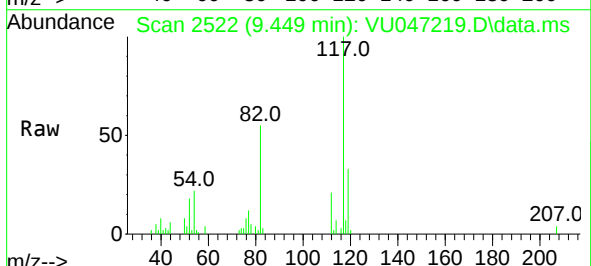
Tgt Ion:112 Resp: 2687

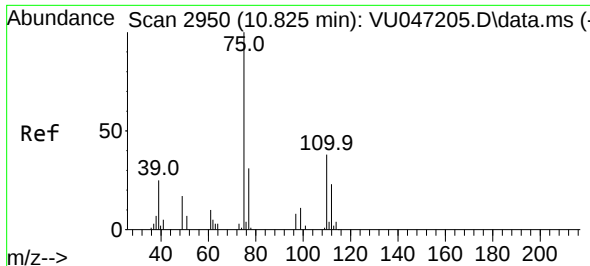
Ion Ratio Lower Upper

112 100

114 34.4 22.1 41.1

77 57.0 48.3 72.5

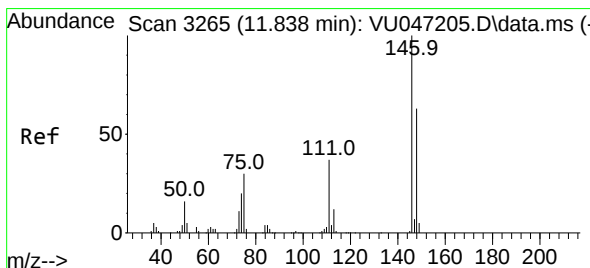
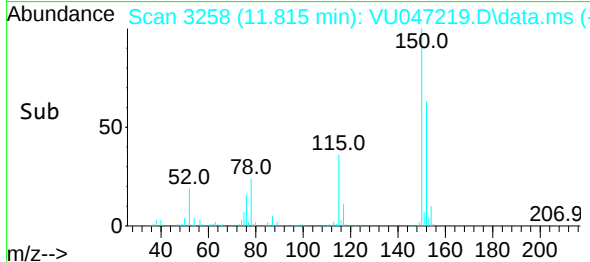
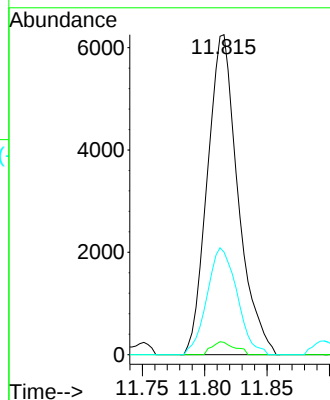
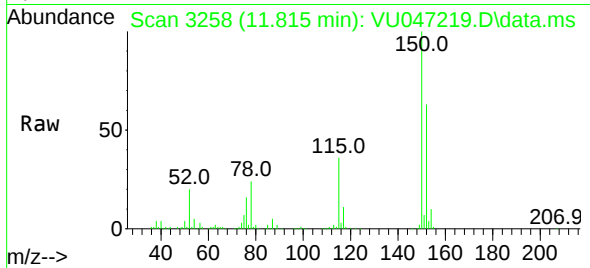




#61
1,2,3-Trichloropropane
Concen: 1.224 ug/L
RT: 11.815 min Scan# 311
Delta R.T. 0.990 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

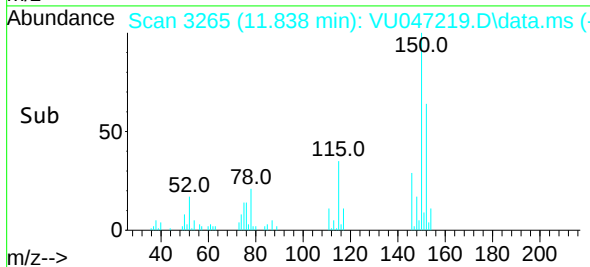
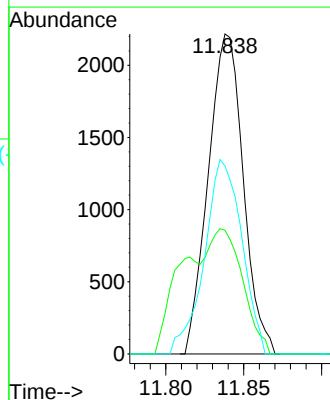
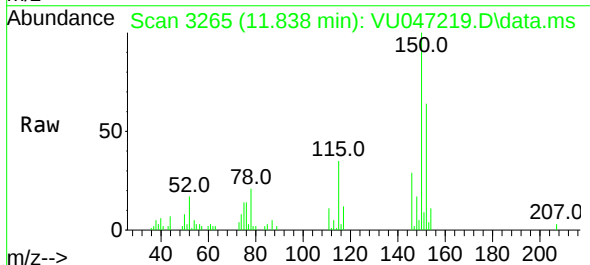
Instrument :
MSVOA_U
ClientSampleId :
BFY03

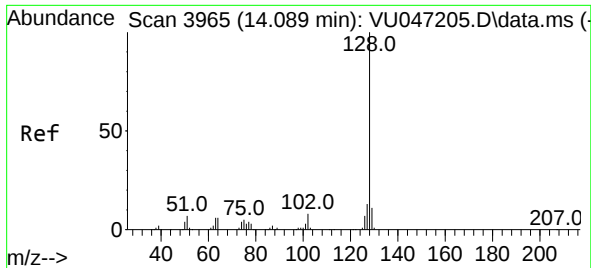
Tgt Ion: 75 Resp: 10694
Ion Ratio Lower Upper
75 100
110 3.0 29.9 44.9#
77 32.8 25.5 38.3



#65
1,4-Dichlorobenzene
Concen: 0.132 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

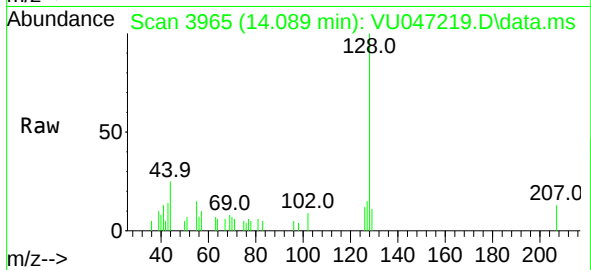
Tgt Ion:146 Resp: 3463
Ion Ratio Lower Upper
146 100
111 38.7 28.7 53.3
148 58.7 45.8 85.0





#71
Naphthalene
Concen: 0.103 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU047219.D
Acq: 17 Feb 2022 21:11

Instrument :
MSVOA_U
ClientSampleId :
BFY03



Tgt Ion:128 Resp: 4223
Ion Ratio Lower Upper
128 100
129 11.2 8.4 12.6
127 14.9 10.2 15.2

