

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U042722\
 Data File : U048322.D
 Acq On : 27 Apr 2022 18:10
 Operator : SY/MD
 Sample : N2587-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXET6

Quant Time: Apr 28 04:40:14 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 28 04:33:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	418023	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	447399	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	263224	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	167154	43.484	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.960%
7) Chloroethane-d5	1.896	69	127236	47.155	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.300%
11) 1,1-Dichloroethene-d2	2.562	63	213560	34.673	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.340%
21) 2-Butanone-d5	4.616	46	340129	103.742	ug/L	-0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.740%
24) Chloroform-d	5.060	84	303335	43.505	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.020%
26) 1,2-Dichloroethane-d4	5.703	65	193764	46.838	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.680%
32) Benzene-d6	5.729	84	668365	47.367	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.740%
36) 1,2-Dichloropropane-d6	6.690	67	212746	45.605	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.220%
41) Toluene-d8	7.899	98	640093	50.046	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.100%
43) trans-1,3-Dichloroprop...	8.179	79	102681	49.883	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.760%
47) 2-Hexanone-d5	8.632	63	304833	121.118	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	121.120%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	370011	45.226	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.460%
66) 1,2-Dichlorobenzene-d4	12.195	152	288719	48.759	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.520%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	20388	5.596	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	2222	0.706	ug/L #	18
13) Acetone	2.620	43	2335886	1109.793	ug/L	100
14) Carbon disulfide	2.790	76	5562	0.830	ug/L	99
15) Methyl Acetate	2.944	43	30197	7.227	ug/L	99
16) Methylene chloride	3.044	84	5304	1.497	ug/L	85
19) 1,1-Dichloroethane	3.867	63	68462	11.465	ug/L	97
22) 2-Butanone	4.697	43	517714	166.338	ug/L	98
27) 1,2-Dichloroethane	5.777	62	271731	61.096	ug/L #	72
29) Cyclohexane	5.388	56	53619	12.684	ug/L	99
30) 1,1,1-Trichloroethane	5.317	97	11384	2.250	ug/L	97
35) Methylcyclohexane	6.764	83	86235	18.918	ug/L #	34
37) 1,2-Dichloropropane	6.783	63	5449	1.446	ug/L #	93
40) 4-Methyl-2-pentanone	7.793	43	116652	20.522	ug/L	97
42) Toluene	7.970	91	5606387	403.128	ug/L	100
44) trans-1,3-Dichloropropene	8.179	75	6034	1.165	ug/L	100
45) 1,1,2-Trichloroethane	8.356	97	289911	73.319	ug/L #	1
48) 2-Hexanone	8.687	43	184197	38.805	ug/L	94
52) Ethylbenzene	9.571	91	338571	23.507	ug/L	99

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

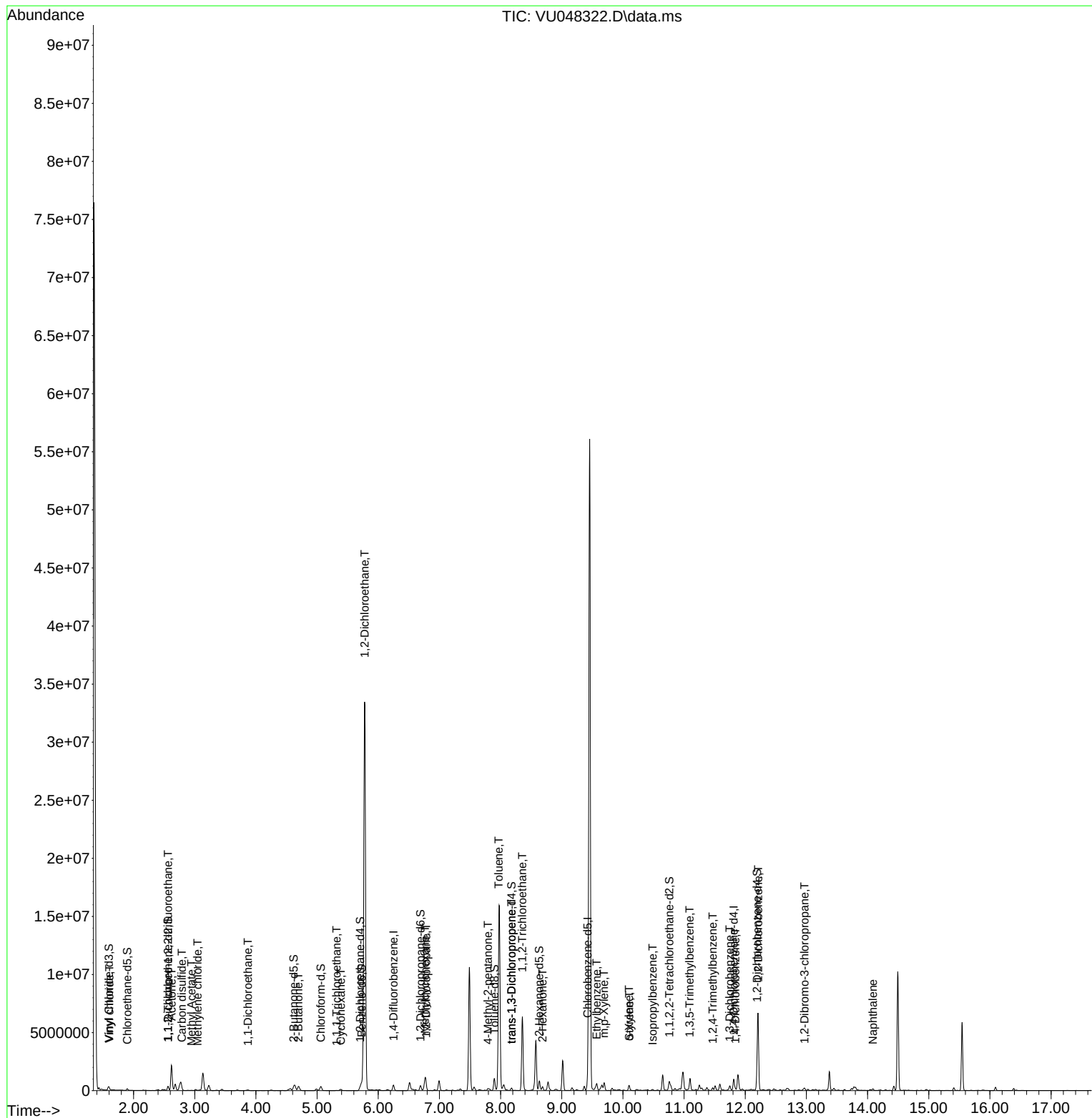
53) m,p-Xylene	9.693	106	189983	33.426	ug/L	100
54) o-Xylene	10.098	106	128403	22.426	ug/L	98
55) Styrene	10.102	104	9014	0.924	ug/L #	1
61) Isopropylbenzene	10.484	105	45771	3.110	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	20259	2.612	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	121706	10.205	ug/L	98
64) 1,3-Dichlorobenzene	11.745	146	11960	1.449	ug/L	95
65) 1,4-Dichlorobenzene	11.838	146	64235	7.625	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	127270	14.642	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.970	75	19550	11.926	ug/L #	1
71) Naphthalene	14.085	128	126097	9.096	ug/L	99

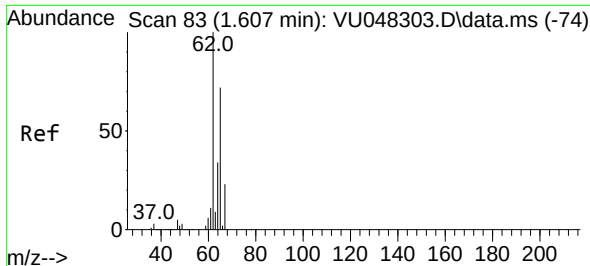
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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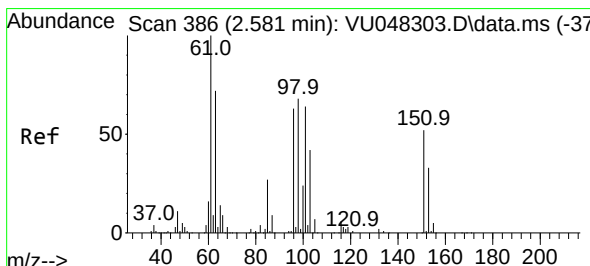
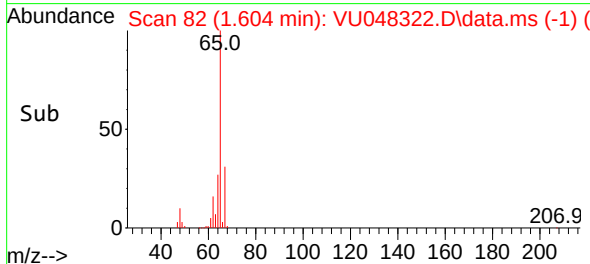
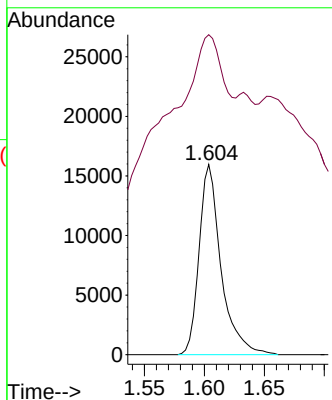
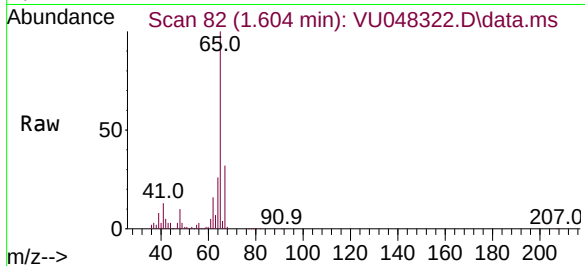




#5
 Vinyl chloride
 Concen: 5.596 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU048322.D
 Acq: 27 Apr 2022 18:10

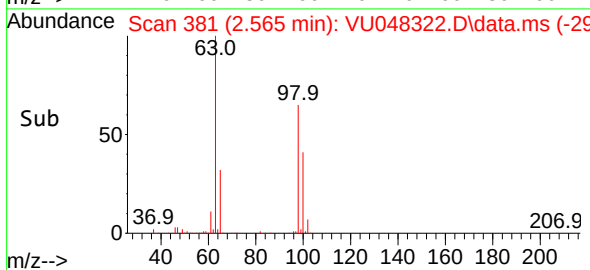
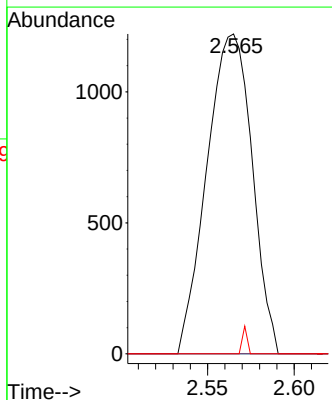
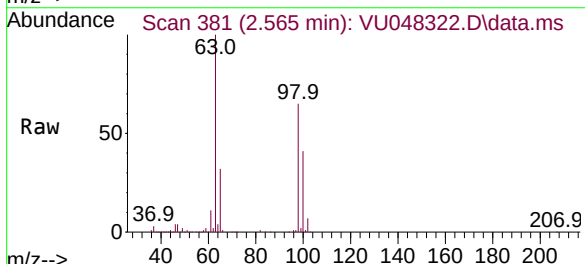
Instrument :
 MSVOA_U
 ClientSampleId :
 EXET6

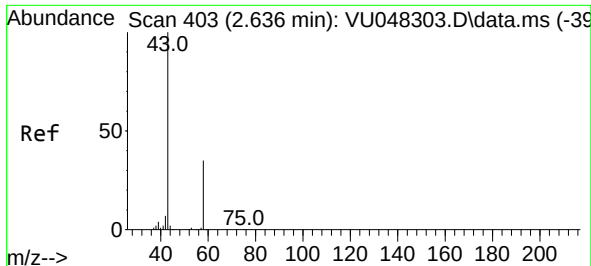
Tgt Ion: 62 Resp: 20388
 Ion Ratio Lower Upper
 62 100
 64 168.3 22.5 41.7#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.706 ug/L
 RT: 2.565 min Scan# 381
 Delta R.T. -0.016 min
 Lab File: VU048322.D
 Acq: 27 Apr 2022 18:10

Tgt Ion: 101 Resp: 2222
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.6 48.8#
 151 0.0 64.1 96.1#





#13

Acetone

Concen: 1109.793 ug/L

RT: 2.620 min Scan# 398

Delta R.T. -0.016 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

Instrument :

MSVOA_U

ClientSampleId :

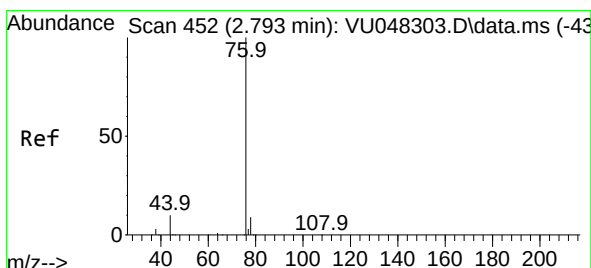
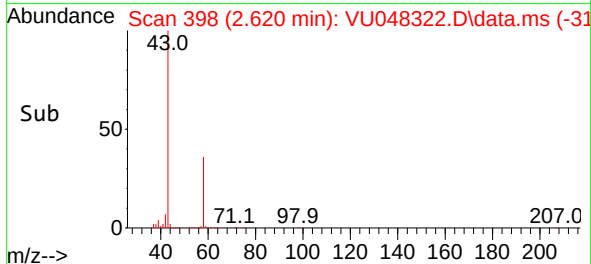
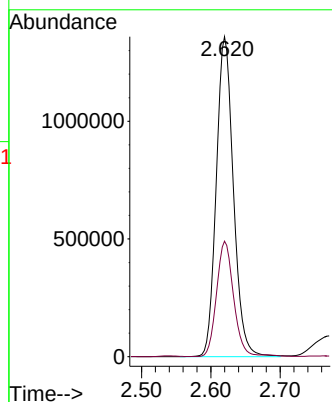
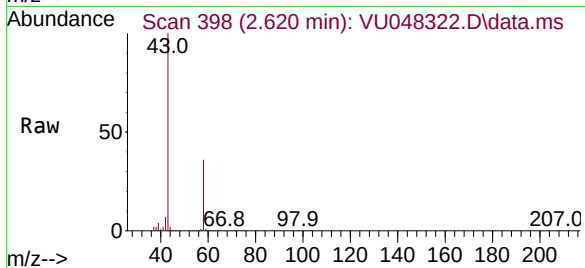
EXET6

Tgt Ion: 43 Resp: 2335886

Ion Ratio Lower Upper

43 100

58 35.6 0.0 71.2



#14

Carbon disulfide

Concen: 0.830 ug/L

RT: 2.790 min Scan# 451

Delta R.T. -0.003 min

Lab File: VU048322.D

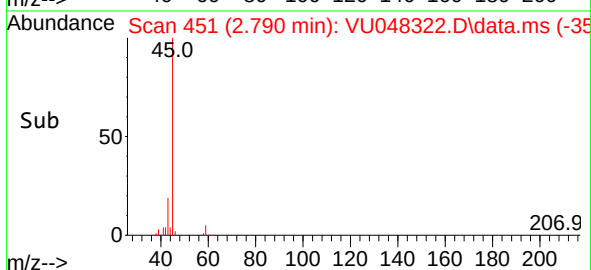
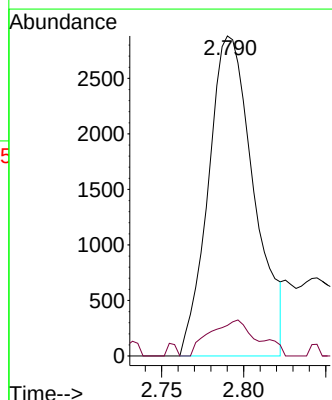
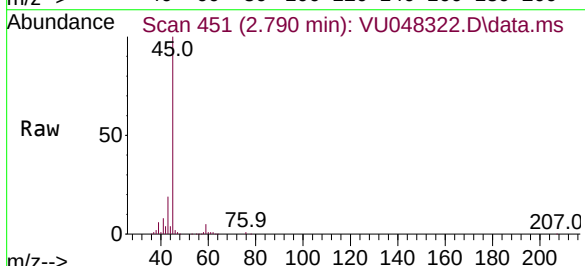
Acq: 27 Apr 2022 18:10

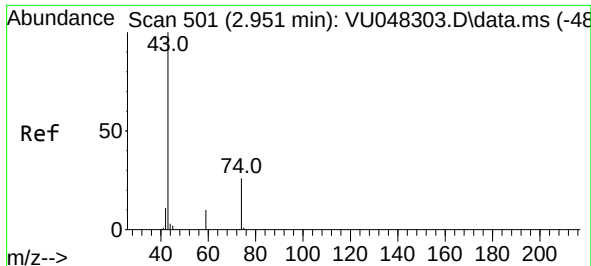
Tgt Ion: 76 Resp: 5562

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.2

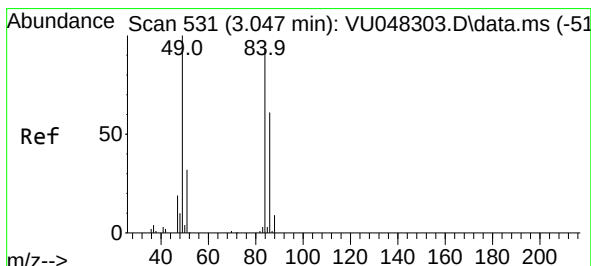
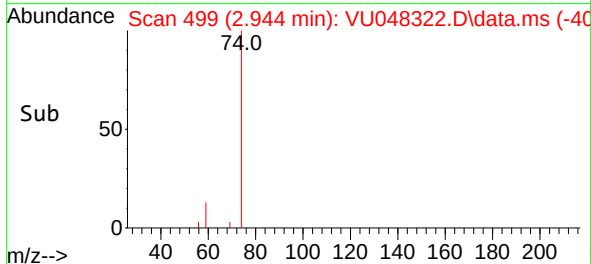
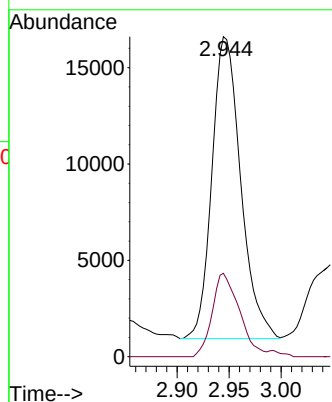
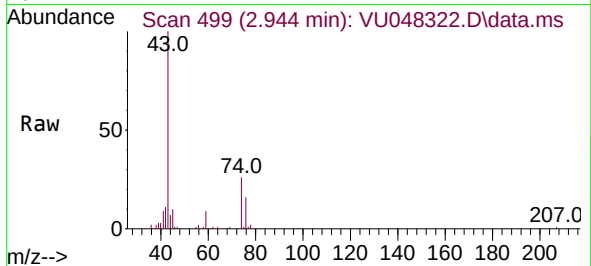




#15
Methyl Acetate
Concen: 7.227 ug/L
RT: 2.944 min Scan# 499
Delta R.T. -0.006 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

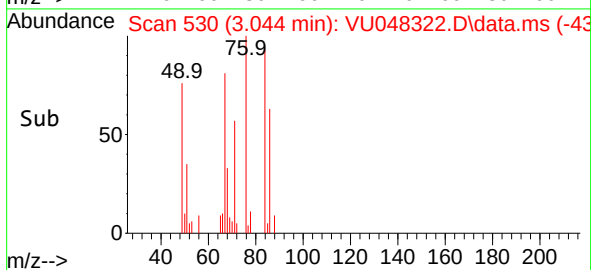
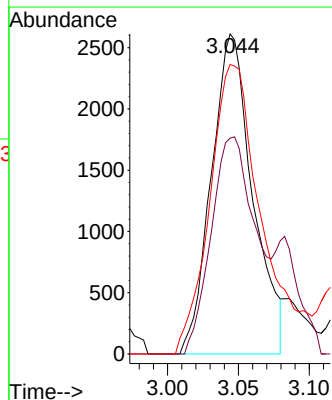
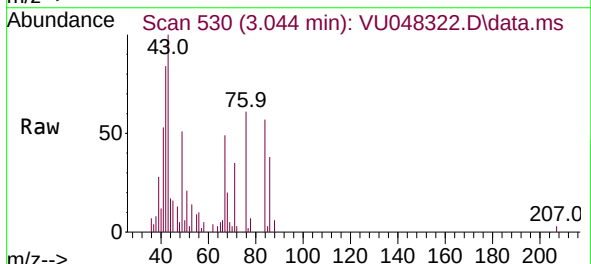
Instrument :
MSVOA_U
ClientSampleId :
EXET6

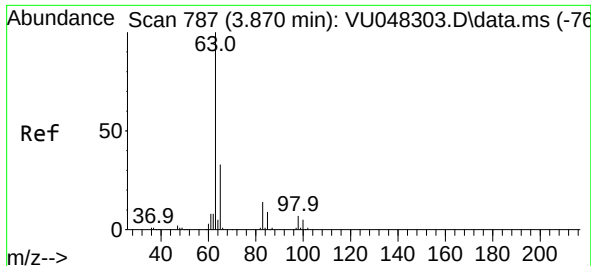
Tgt Ion: 43 Resp: 30197
Ion Ratio Lower Upper
43 100
74 26.0 21.0 31.6



#16
Methylene chloride
Concen: 1.497 ug/L
RT: 3.044 min Scan# 530
Delta R.T. -0.003 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

Tgt Ion: 84 Resp: 5304
Ion Ratio Lower Upper
84 100
86 67.5 45.4 84.2
49 90.4 79.2 147.0





#19

1,1-Dichloroethane

Concen: 11.465 ug/L

RT: 3.867 min Scan# 786

Delta R.T. -0.003 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

Instrument :

MSVOA_U

ClientSampleId :

EXET6

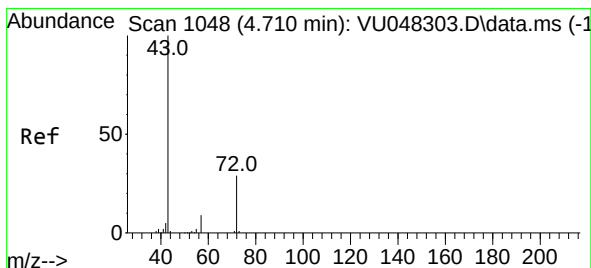
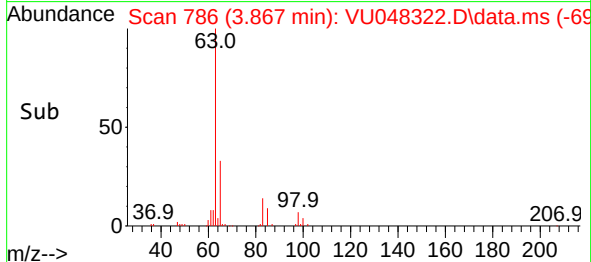
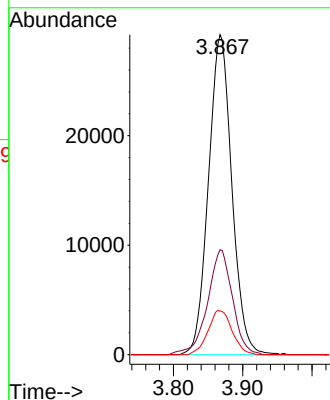
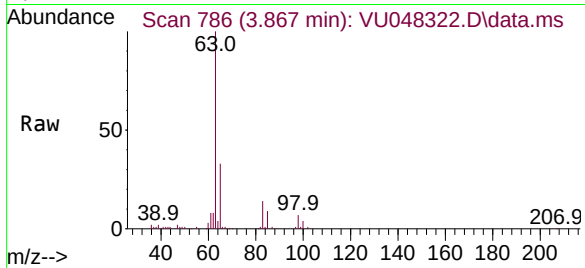
Tgt Ion: 63 Resp: 68462

Ion Ratio Lower Upper

63 100

65 32.8 22.0 40.8

83 13.7 8.8 16.4



#22

2-Butanone

Concen: 166.338 ug/L

RT: 4.697 min Scan# 1044

Delta R.T. -0.013 min

Lab File: VU048322.D

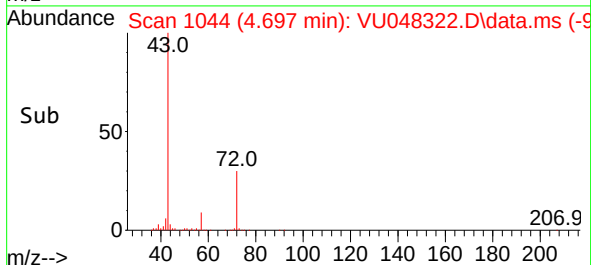
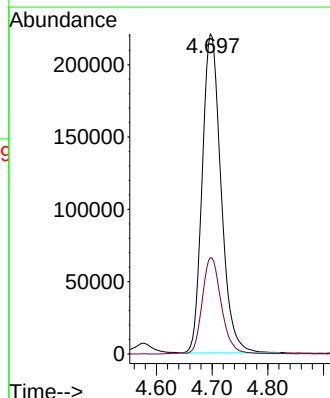
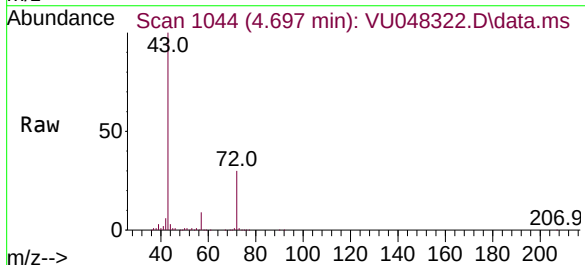
Acq: 27 Apr 2022 18:10

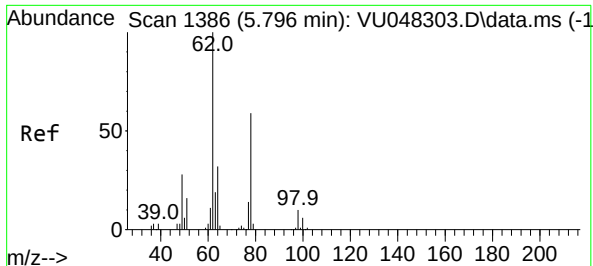
Tgt Ion: 43 Resp: 517714

Ion Ratio Lower Upper

43 100

72 30.1 14.6 43.8





#27

1,2-Dichloroethane

Concen: 61.096 ug/L

RT: 5.777 min Scan# 11

Delta R.T. -0.019 min

Lab File: VU048322.D

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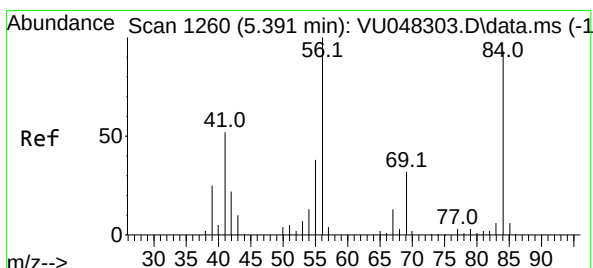
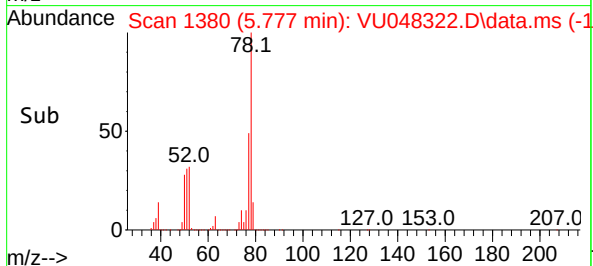
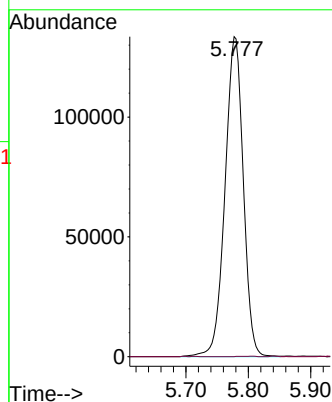
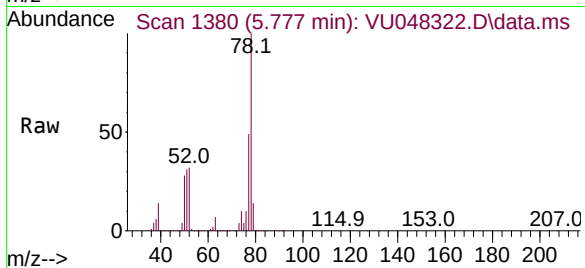
EXET6

Tgt Ion: 62 Resp: 271731

Ion Ratio Lower Upper

62 100

98 0.0 8.5 12.7#



#29

Cyclohexane

Concen: 12.684 ug/L

RT: 5.388 min Scan# 1259

Delta R.T. -0.003 min

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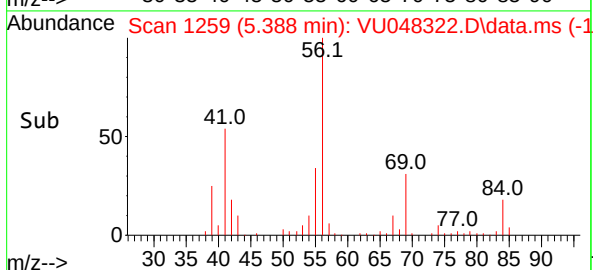
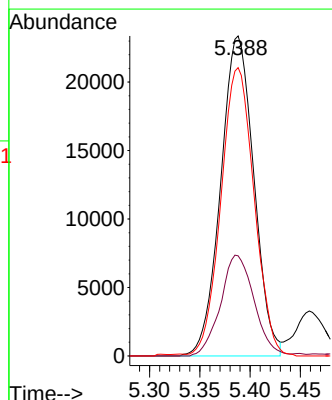
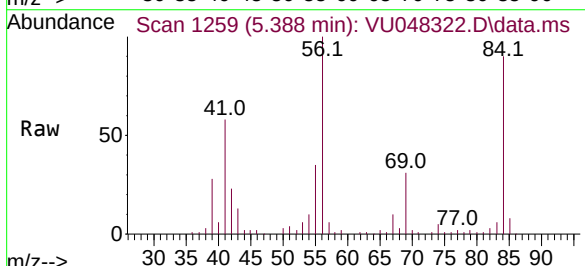
Tgt Ion: 56 Resp: 53619

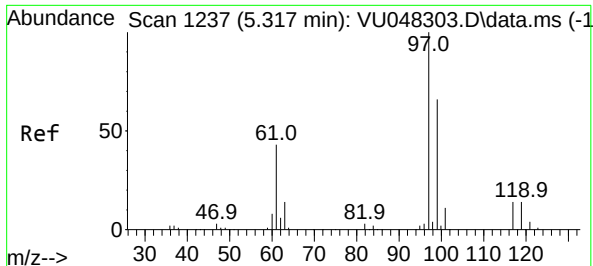
Ion Ratio Lower Upper

56 100

69 31.8 24.2 36.4

84 90.1 72.2 108.2





#30

1,1,1-Trichloroethane

Concen: 2.250 ug/L

RT: 5.317 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU048322.D

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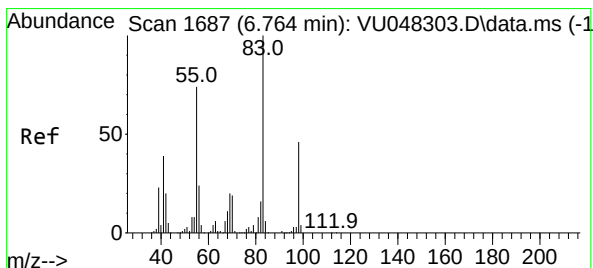
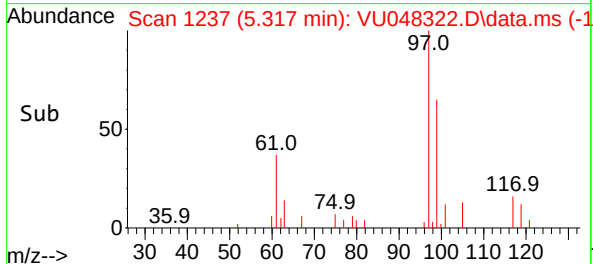
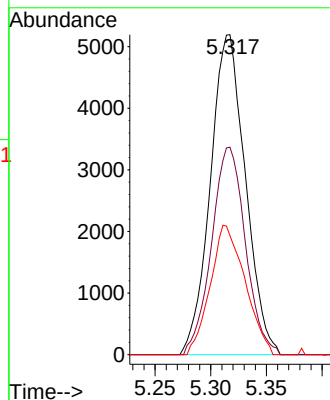
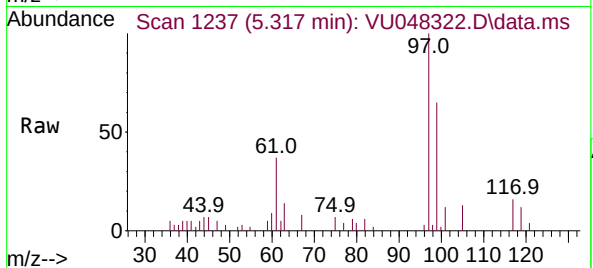
Tgt Ion: 97 Resp: 11384

Ion Ratio Lower Upper

97 100

99 62.7 51.8 77.8

61 40.1 33.9 50.9



#35

Methylcyclohexane

Concen: 18.918 ug/L

RT: 6.764 min Scan# 1687

Delta R.T. 0.000 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

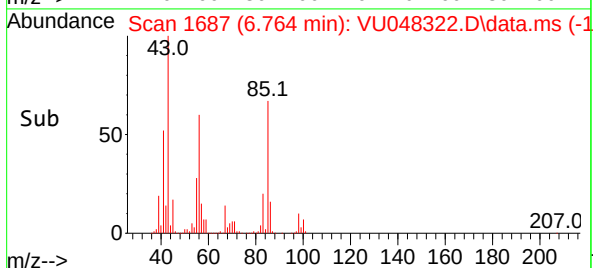
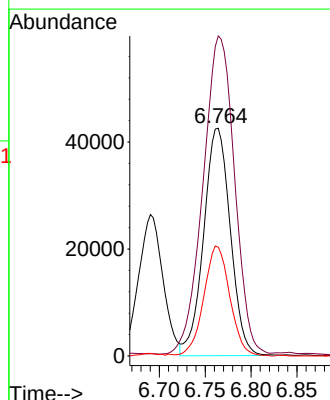
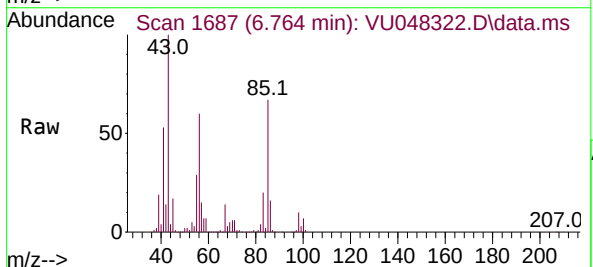
Tgt Ion: 83 Resp: 86235

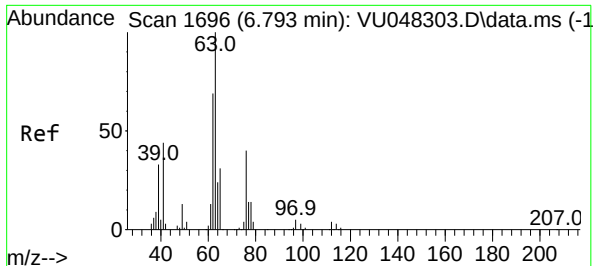
Ion Ratio Lower Upper

83 100

55 164.4 59.4 89.2#

98 47.2 37.3 55.9





#37

1,2-Dichloropropane

Concen: 1.446 ug/L

RT: 6.783 min Scan# 1

Delta R.T. -0.010 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

Instrument :

MSVOA_U

ClientSampleId :

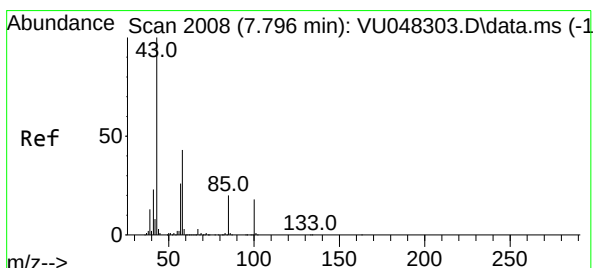
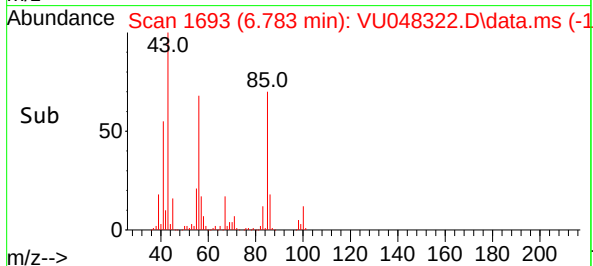
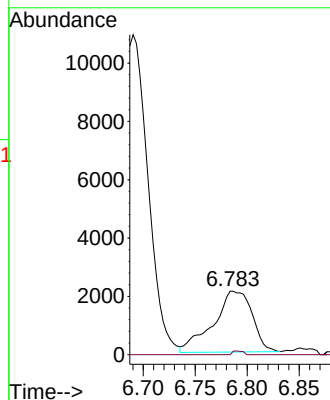
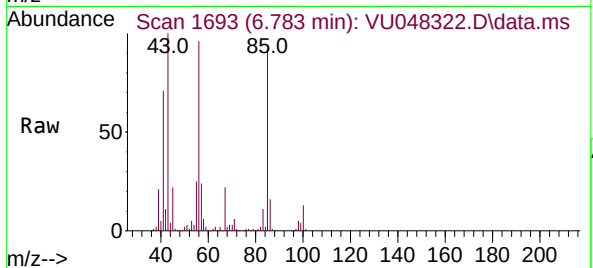
EXET6

Tgt Ion: 63 Resp: 5449

Ion Ratio Lower Upper

63 100

112 1.6 3.1 4.7#



#40

4-Methyl-2-pentanone

Concen: 20.522 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

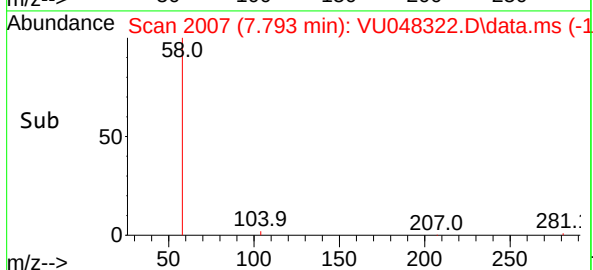
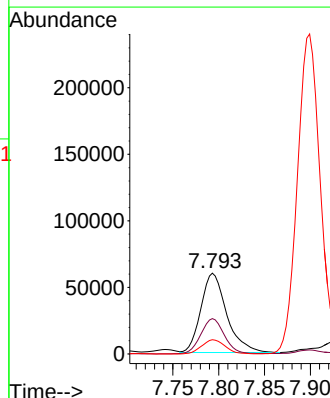
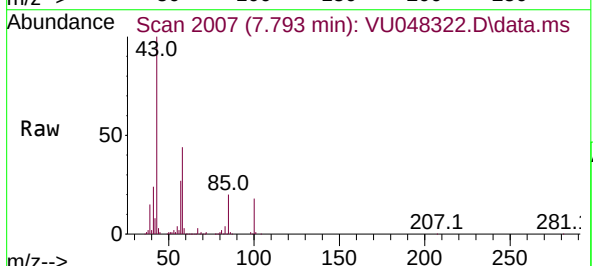
Tgt Ion: 43 Resp: 116652

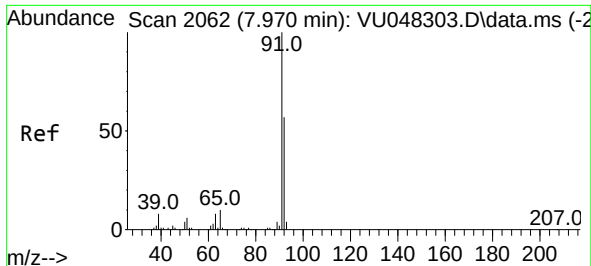
Ion Ratio Lower Upper

43 100

58 40.3 34.4 51.6

100 16.4 13.6 20.4





#42

Toluene

Concen: 403.128 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

Instrument :

MSVOA_U

ClientSampleId :

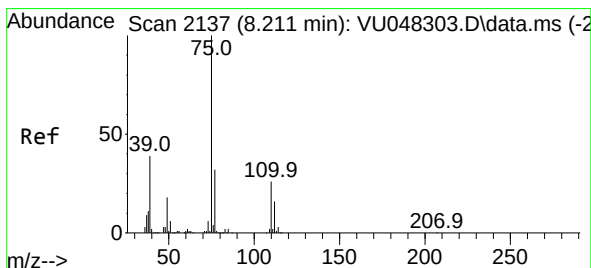
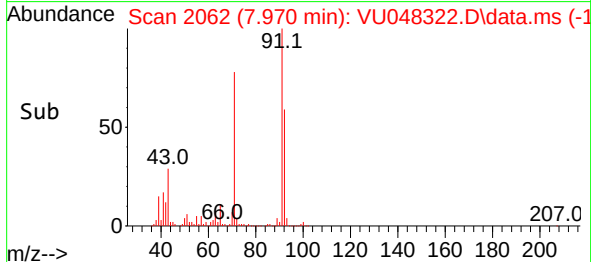
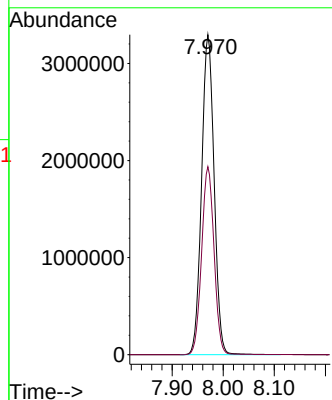
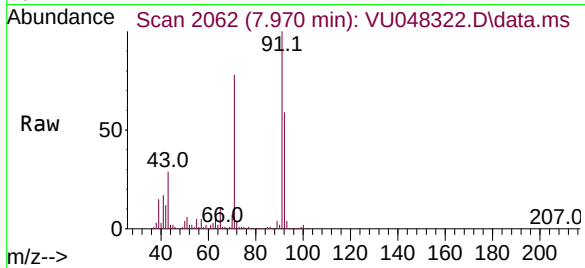
EXET6

Tgt Ion: 91 Resp: 5606387

Ion Ratio Lower Upper

91 100

92 58.7 40.9 76.0



#44

trans-1,3-Dichloropropene

Concen: 1.165 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.032 min

Lab File: VU048322.D

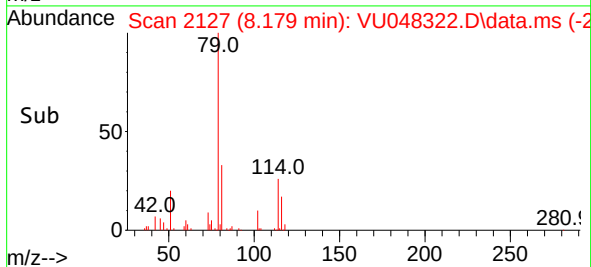
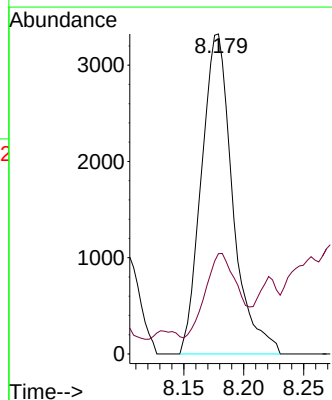
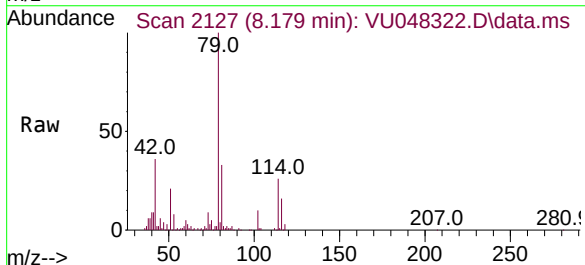
Acq: 27 Apr 2022 18:10

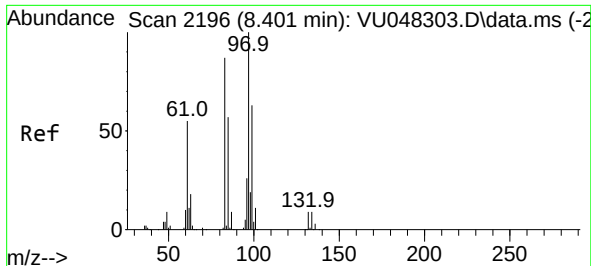
Tgt Ion: 75 Resp: 6034

Ion Ratio Lower Upper

75 100

77 31.3 22.1 41.1

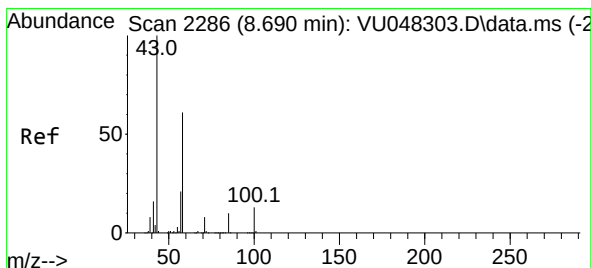
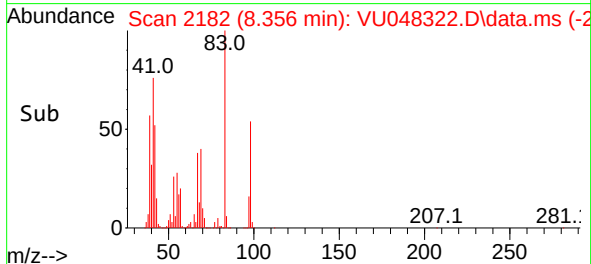
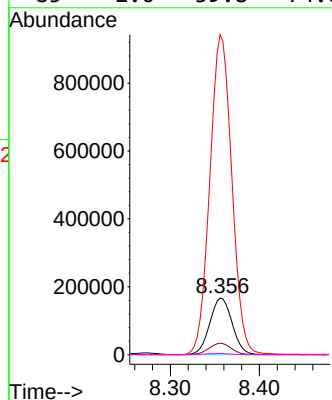
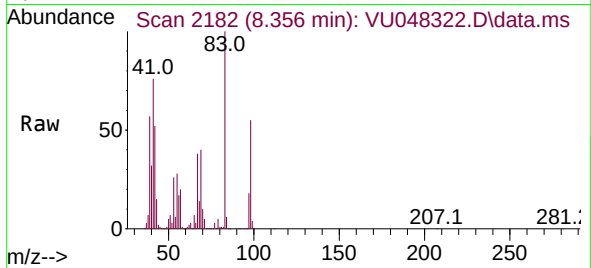




#45
1,1,2-Trichloroethane
Concen: 73.319 ug/L
RT: 8.356 min Scan# 2196
Delta R.T. -0.045 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

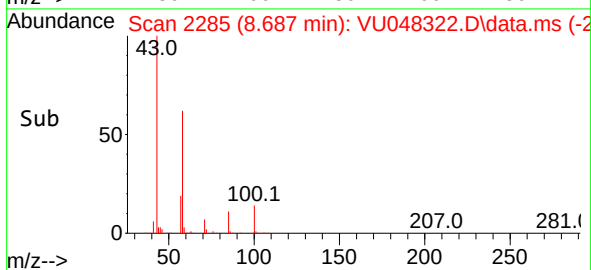
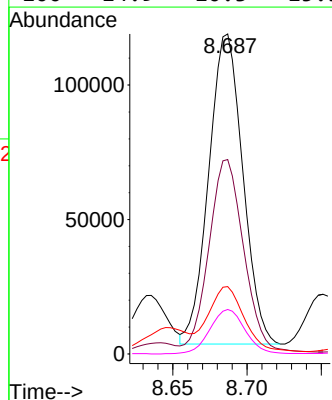
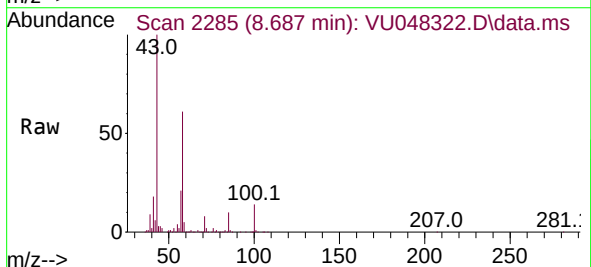
Instrument :
MSVOA_U
ClientSampleId :
EXET6

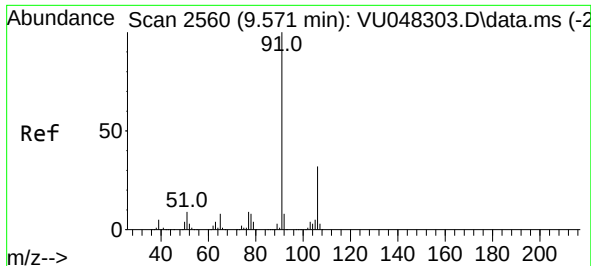
Tgt Ion: 97 Resp: 289911
Ion Ratio Lower Upper
97 100
99 20.3 43.7 81.1#
83 565.2 62.6 116.2#
85 2.0 39.8 74.0#



#48
2-Hexanone
Concen: 38.805 ug/L
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

Tgt Ion: 43 Resp: 184197
Ion Ratio Lower Upper
43 100
58 65.1 48.1 72.1
57 22.6 16.2 24.4
100 14.9 10.3 15.5

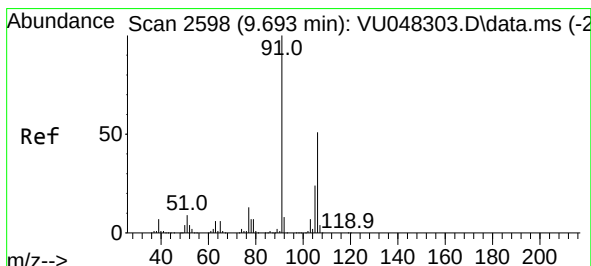
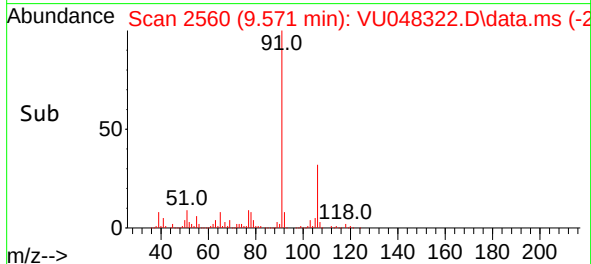
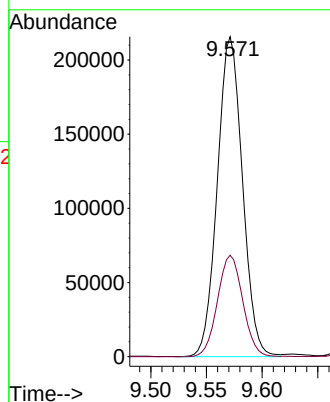
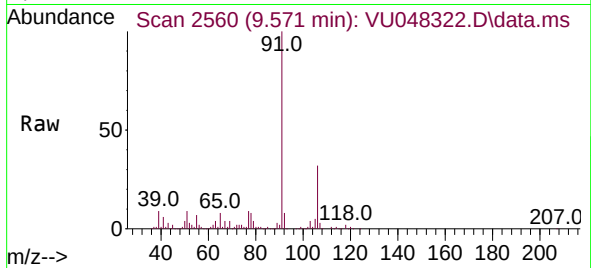




#52
Ethylbenzene
Concen: 23.507 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

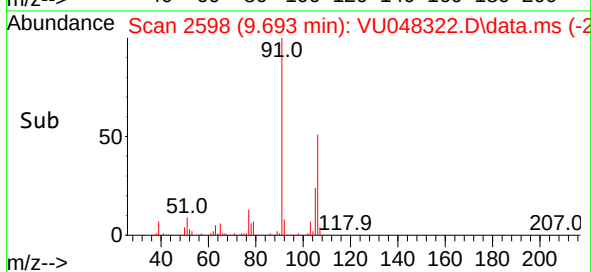
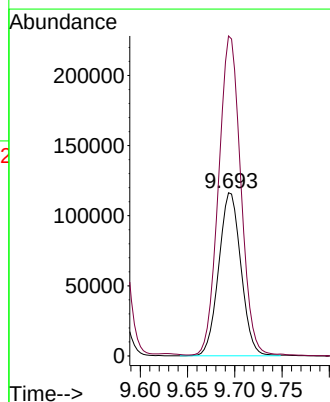
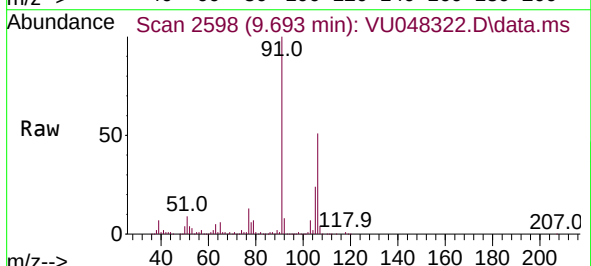
Instrument :
MSVOA_U
ClientSampleId :
EXET6

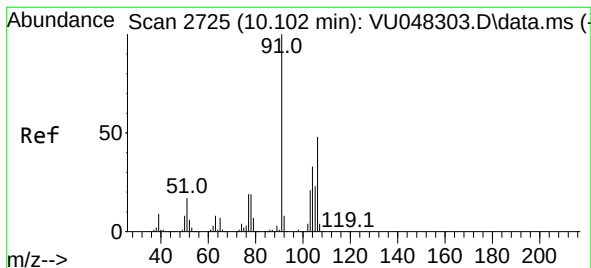
Tgt Ion: 91 Resp: 338571
Ion Ratio Lower Upper
91 100
106 31.7 22.5 41.9



#53
m,p-Xylene
Concen: 33.426 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

Tgt Ion: 106 Resp: 189983
Ion Ratio Lower Upper
106 100
91 196.0 137.4 255.2





#54

o-Xylene

Concen: 22.426 ug/L

RT: 10.098 min Scan# 2724

Delta R.T. -0.003 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

Instrument :

MSVOA_U

ClientSampleId :

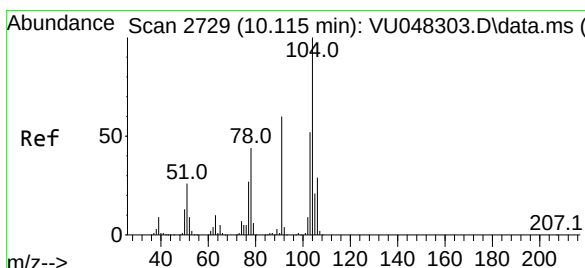
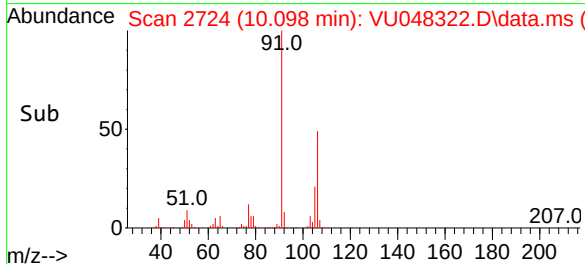
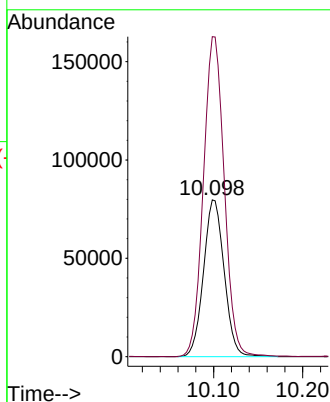
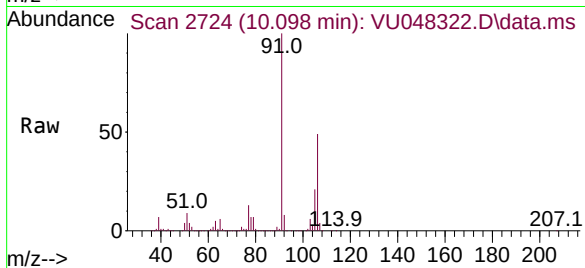
EXET6

Tgt Ion:106 Resp: 128403

Ion Ratio Lower Upper

106 100

91 204.0 145.3 269.8



#55

Styrene

Concen: 0.924 ug/L

RT: 10.102 min Scan# 2725

Delta R.T. -0.013 min

Lab File: VU048322.D

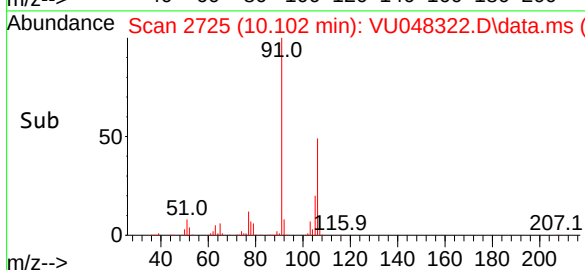
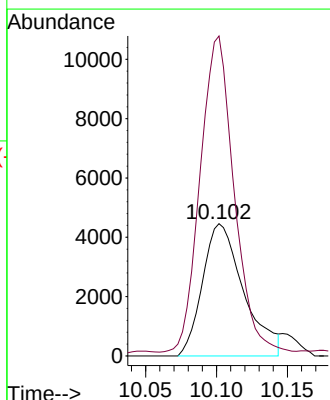
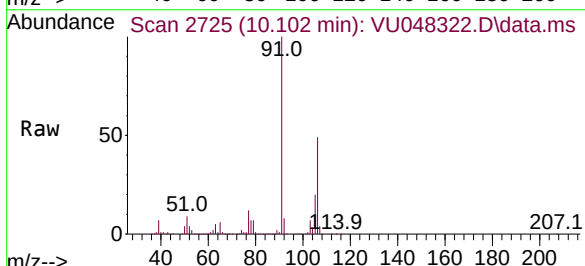
Acq: 27 Apr 2022 18:10

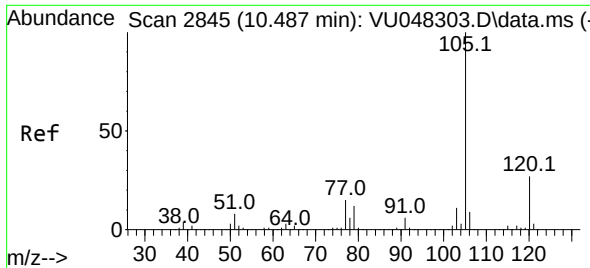
Tgt Ion:104 Resp: 9014

Ion Ratio Lower Upper

104 100

78 241.9 30.3 56.3#

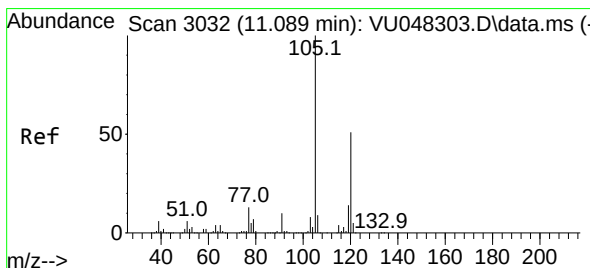
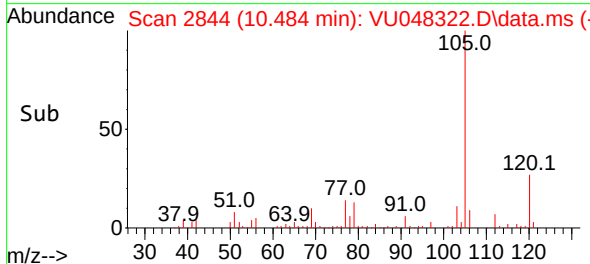
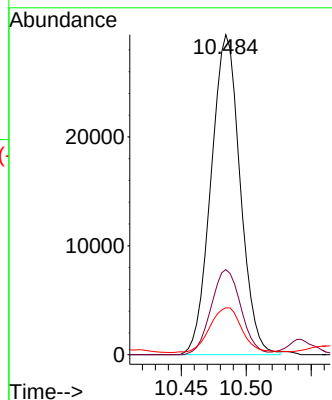
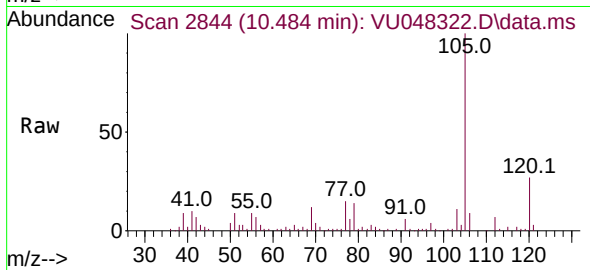




#61
Isopropylbenzene
Concen: 3.110 ug/L
RT: 10.484 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

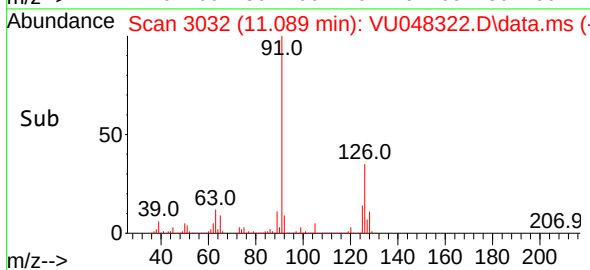
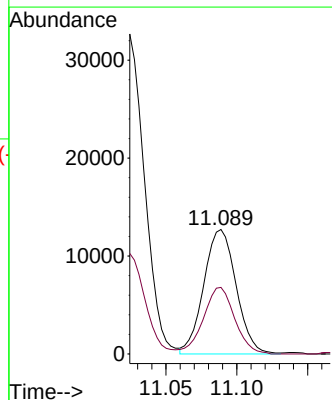
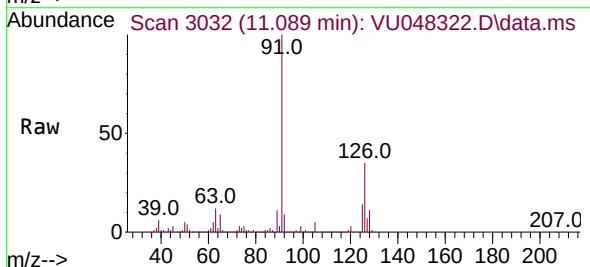
Instrument :
MSVOA_U
ClientSampleId :
EXET6

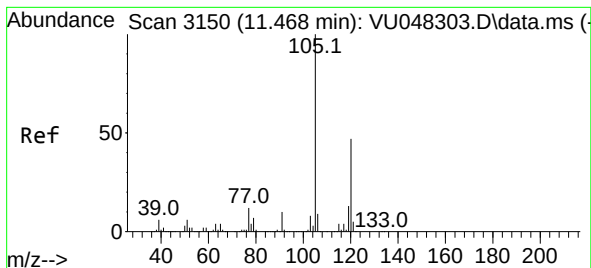
Tgt Ion:105 Resp: 45771
Ion Ratio Lower Upper
105 100
120 27.3 21.7 32.5
77 15.5 11.7 17.5



#62
1,3,5-Trimethylbenzene
Concen: 2.612 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. 0.000 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

Tgt Ion:105 Resp: 20259
Ion Ratio Lower Upper
105 100
120 51.8 40.7 61.1





#63

1,2,4-Trimethylbenzene

Concen: 10.205 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

Instrument :

MSVOA_U

ClientSampleId :

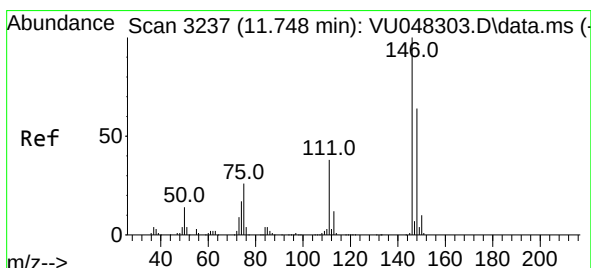
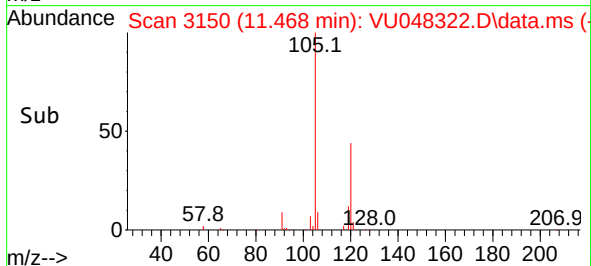
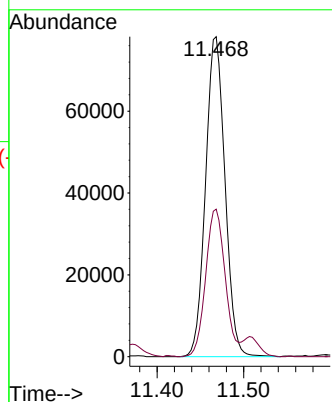
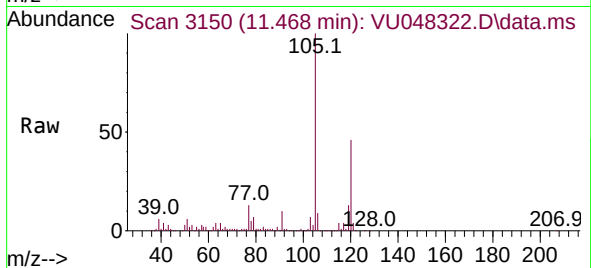
EXET6

Tgt Ion:105 Resp: 121706

Ion Ratio Lower Upper

105 100

120 46.2 38.0 57.0



#64

1,3-Dichlorobenzene

Concen: 1.449 ug/L

RT: 11.745 min Scan# 3236

Delta R.T. -0.003 min

Lab File: VU048322.D

Acq: 27 Apr 2022 18:10

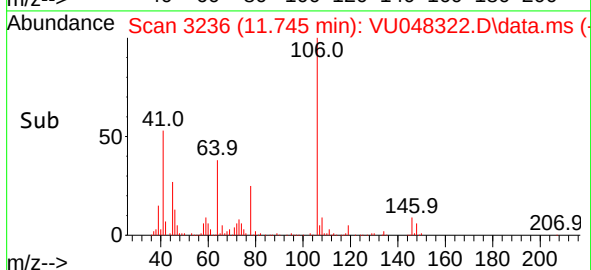
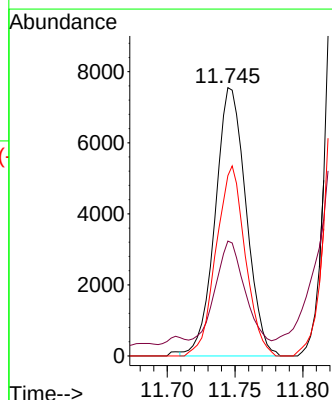
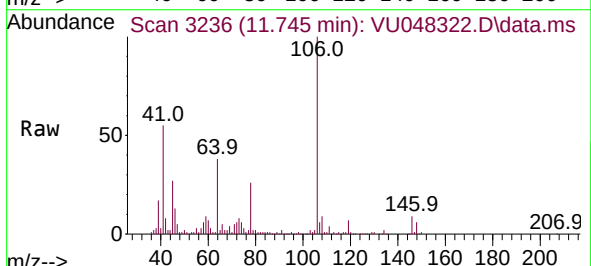
Tgt Ion:146 Resp: 11960

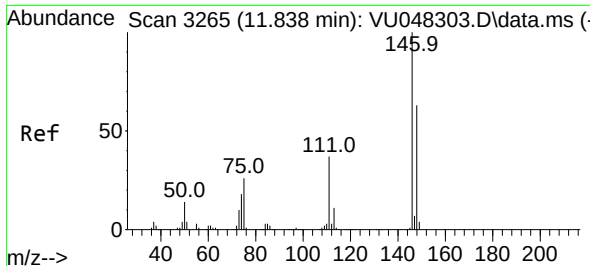
Ion Ratio Lower Upper

146 100

111 42.8 26.7 49.7

148 67.2 44.9 83.5

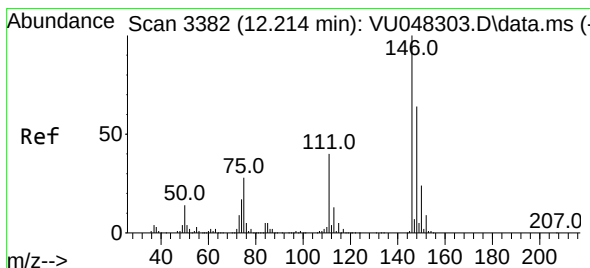
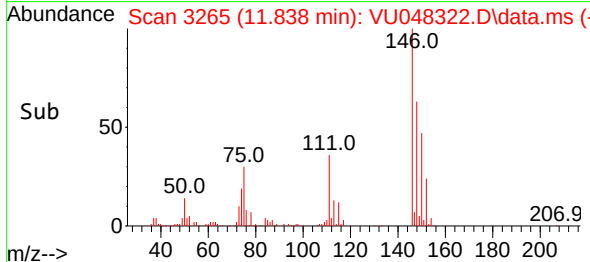
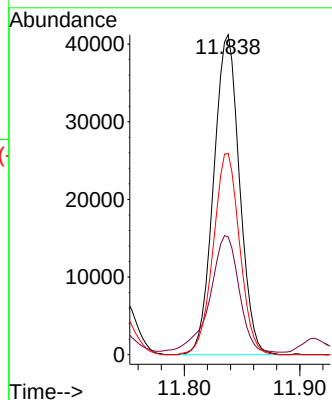
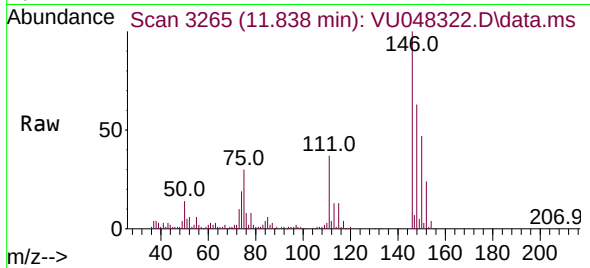




#65
1,4-Dichlorobenzene
Concen: 7.625 ug/L
RT: 11.838 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

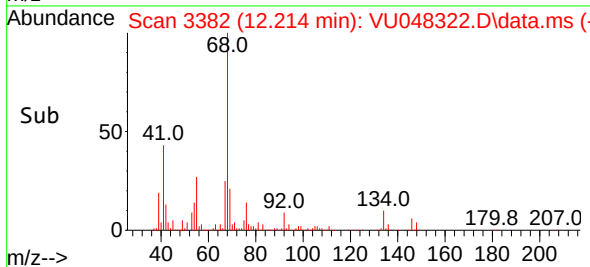
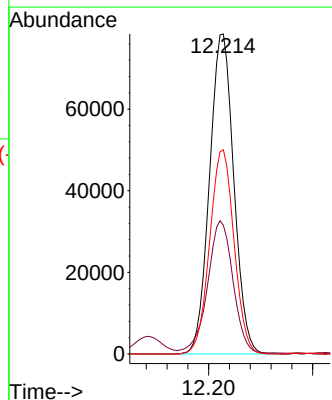
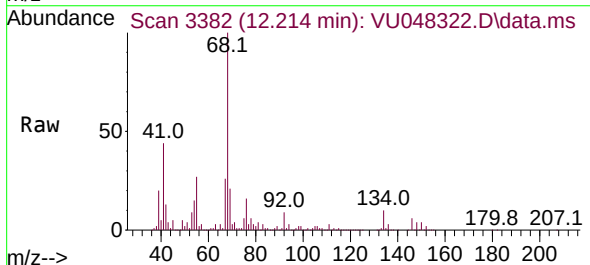
Instrument :
MSVOA_U
ClientSampleId :
EXET6

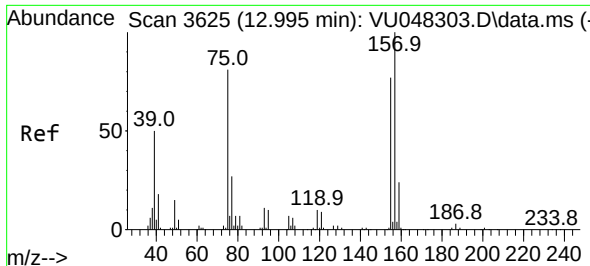
Tgt Ion:146 Resp: 64235
Ion Ratio Lower Upper
146 100
111 36.8 25.9 48.1
148 62.9 45.1 83.7



#67
1,2-Dichlorobenzene
Concen: 14.642 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

Tgt Ion:146 Resp: 127270
Ion Ratio Lower Upper
146 100
111 40.2 31.7 47.5
148 63.8 50.9 76.3

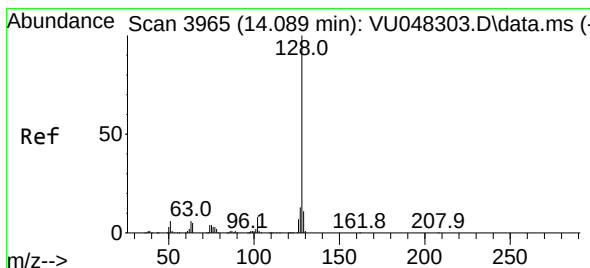
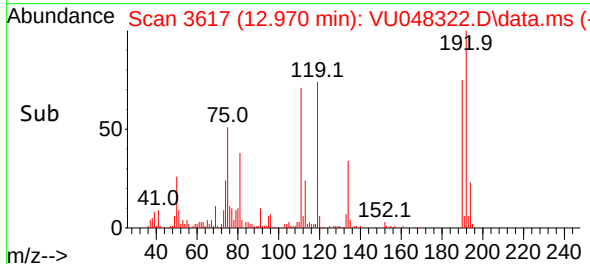
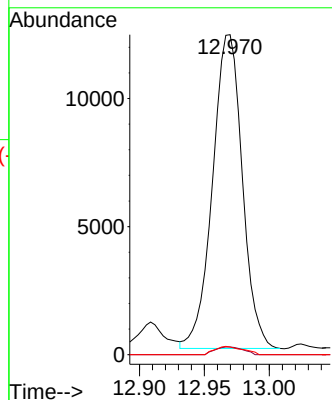
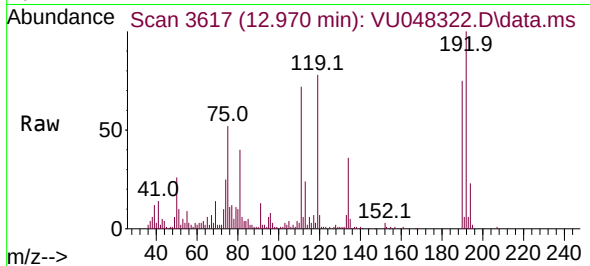




#68
1,2-Dibromo-3-chloropropane
Concen: 11.926 ug/L
RT: 12.970 min Scan# 3617
Delta R.T. -0.026 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

Instrument :
MSVOA_U
ClientSampleId :
EXET6

Tgt Ion: 75 Resp: 19550
Ion Ratio Lower Upper
75 100
155 2.4 71.8 107.6#
157 2.4 93.4 140.2#



#71
Naphthalene
Concen: 9.096 ug/L
RT: 14.085 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU048322.D
Acq: 27 Apr 2022 18:10

Tgt Ion:128 Resp: 126097
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.8 8.7 13.1

