

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120822\
 Data File : VW029466.D
 Acq On : 08 Dec 2022 12:42
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Quant Time: Dec 09 01:59:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.625	114	1420	50.000	ug/L	# 0.01
28) Chlorobenzene-d5	8.854	117	3861	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	4428	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	387	44.506	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.020%
7) Chloroethane-d5	1.561	69	127	19.154	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	38.300%#
11) 1,1-Dichloroethene-d2	2.108	63	732	53.972	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.940%
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	4.336	84	63	3.850	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	7.700%#
26) 1,2-Dichloroethane-d4	5.043	65	130	13.910	ug/L	0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	27.820%#
32) Benzene-d6	5.060	84	1331	13.046	ug/L	0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	26.100%#
36) 1,2-Dichloropropane-d6	0.000	67	0	0.000	ug/L	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	0.000%#
41) Toluene-d8	7.320	98	2202	22.907	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	45.820%#
43) trans-1,3-Dichloroprop...	7.622	79	42	2.669	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	5.340%#
47) 2-Hexanone-d5	8.111	63	73	5.486	ug/L	0.03
Spiked Amount	100.000	Range	45 - 130	Recovery	=	5.490%#
56) 1,1,2,2-Tetrachloroeth...	10.210	84	838	18.818	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	37.640%#
66) 1,2-Dichlorobenzene-d4	11.616	152	3486	41.356	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.720%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.124	85	51	4.560	ug/L #	42
3) Chloromethane	1.240	50	404	31.680	ug/L #	41
8) Chloroethane	1.568	64	44	7.406	ug/L #	42
12) 1,1-Dichloroethene	2.224	96	41	5.402	ug/L #	1
13) Acetone	2.163	43	2142	619.865	ug/L	90
14) Carbon disulfide	2.291	76	973	38.518	ug/L #	86
15) Methyl Acetate	2.233	43	40	5.081	ug/L #	45
16) Methylene chloride	2.507	84	4383	464.426	ug/L	97
22) 2-Butanone	4.111	43	44	8.002	ug/L #	43
29) Cyclohexane	4.667	56	70	1.674	ug/L #	12
33) Benzene	5.085	78	157	1.443	ug/L	100
34) Trichloroethene	5.921	95	78	2.860	ug/L #	4
35) Methylcyclohexane	6.114	83	43	0.928	ug/L #	1
42) Toluene	7.387	91	139	1.187	ug/L #	22
48) 2-Hexanone	8.140	43	201	8.400	ug/L #	64
51) Chlorobenzene	8.876	112	653	8.804	ug/L #	67
52) Ethylbenzene	9.014	91	316	2.566	ug/L #	43
53) m,p-Xylene	9.137	106	88	1.805	ug/L	95
55) Styrene	9.567	104	354	4.225	ug/L #	34

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

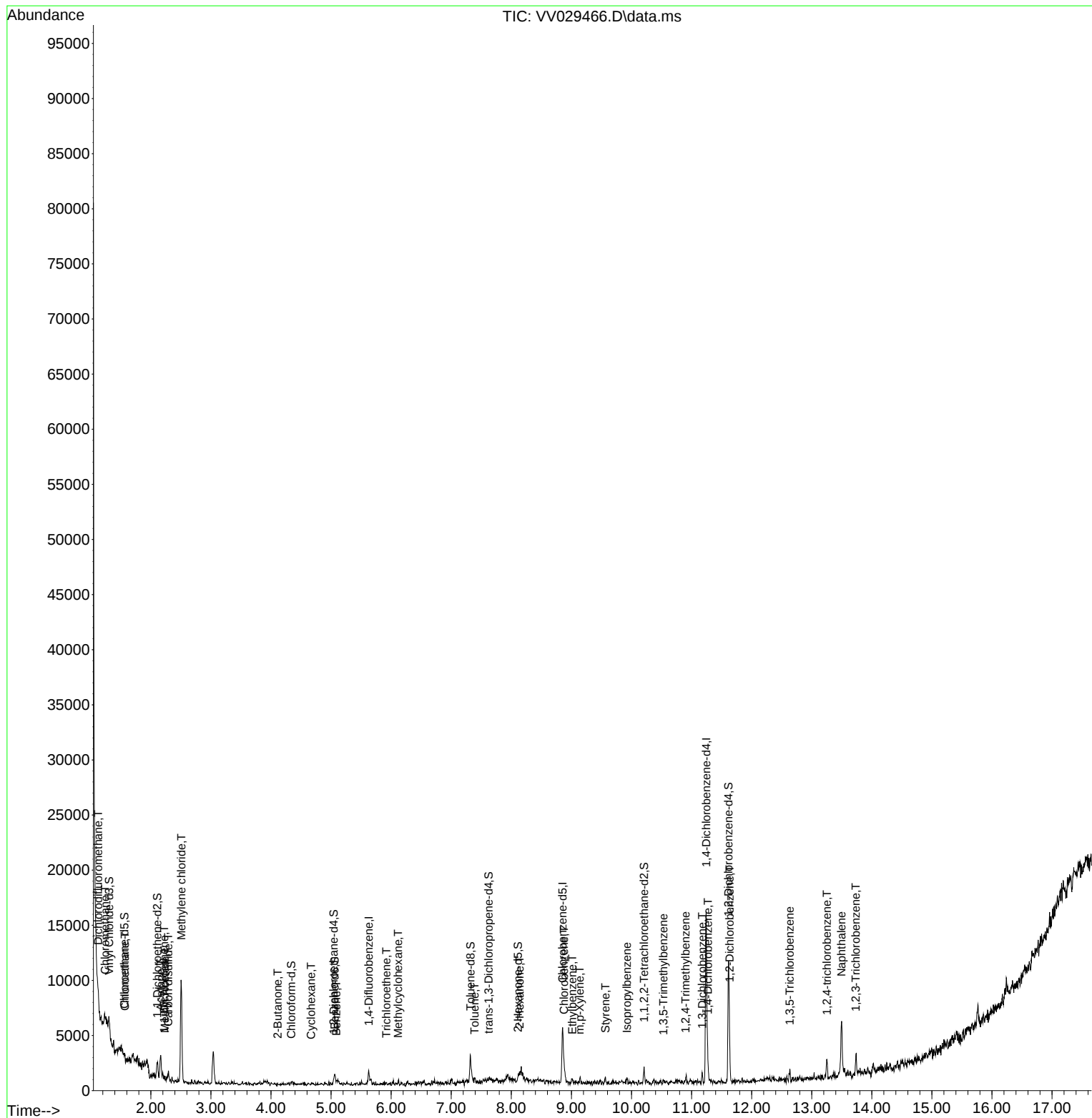
60) Isopropylbenzene	9.924	105	338	1.300	ug/L #	65
62) 1,3,5-Trimethylbenzene	10.529	105	345	1.501	ug/L #	46
63) 1,2,4-Trimethylbenzene	10.902	105	239	1.049	ug/L #	30
64) 1,3-Dichlorobenzene	11.178	146	413	3.249	ug/L	93
65) 1,4-Dichlorobenzene	11.272	146	785	6.077	ug/L	97
67) 1,2-Dichlorobenzene	11.632	146	538	4.139	ug/L	96
69) 1,3,5-Trichlorobenzene	12.635	180	344	3.401	ug/L #	62
70) 1,2,4-trichlorobenzene	13.252	180	613	6.815	ug/L #	52
71) Naphthalene	13.496	128	5873	28.783	ug/L #	93
72) 1,2,3-Trichlorobenzene	13.734	180	599	6.798	ug/L #	77

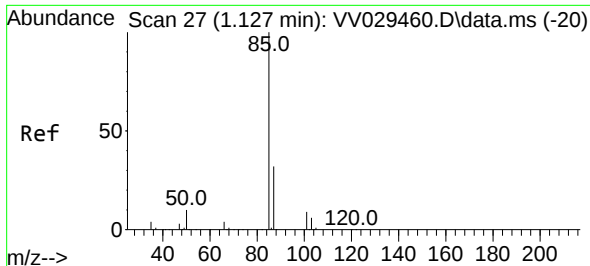
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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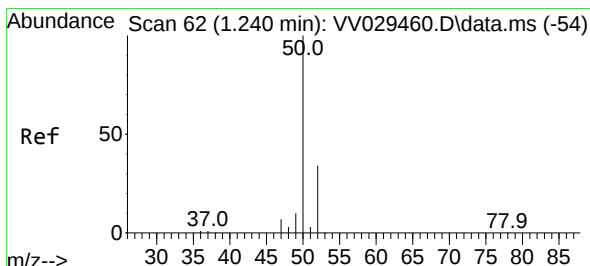
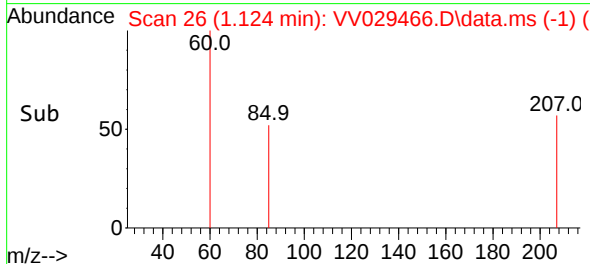
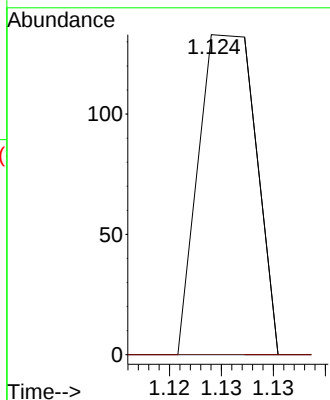
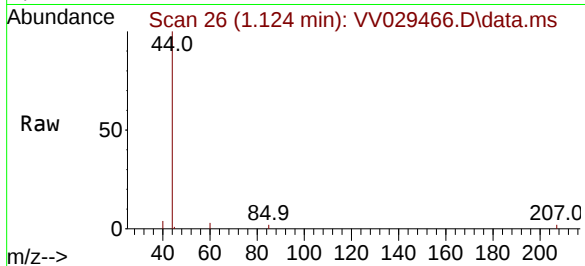




#2
 Dichlorodifluoromethane
 Concen: 4.560 ug/L
 RT: 1.124 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VV029466.D
 Acq: 08 Dec 2022 12:42

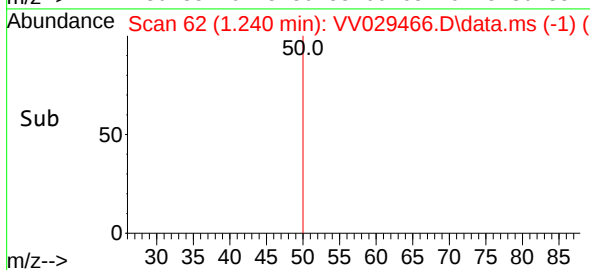
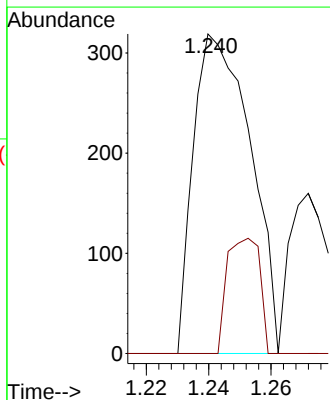
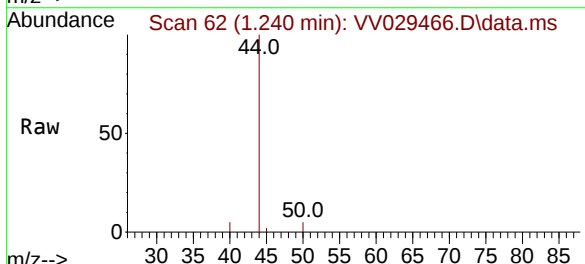
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

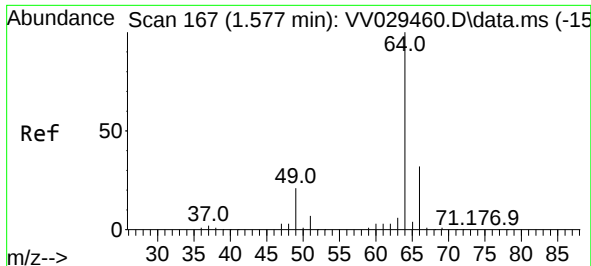
Tgt Ion: 85 Resp: 51
 Ion Ratio Lower Upper
 85 100
 87 0.0 25.9 38.9#



#3
 Chloromethane
 Concen: 31.680 ug/L
 RT: 1.240 min Scan# 62
 Delta R.T. 0.000 min
 Lab File: VV029466.D
 Acq: 08 Dec 2022 12:42

Tgt Ion: 50 Resp: 404
 Ion Ratio Lower Upper
 50 100
 52 0.0 23.3 43.3#

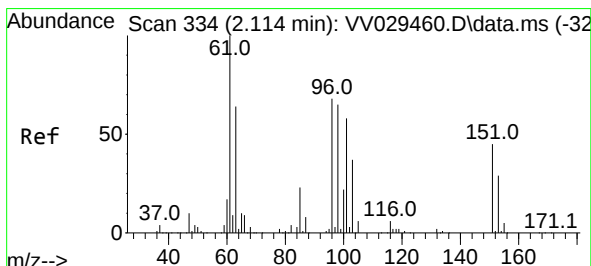
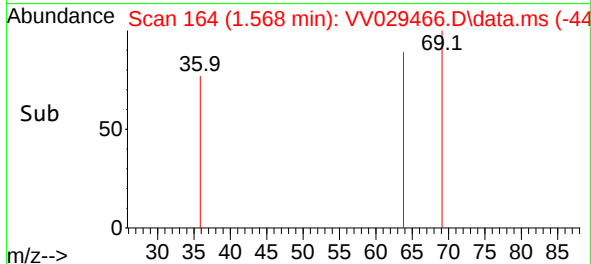
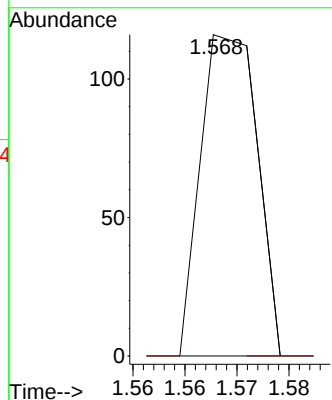
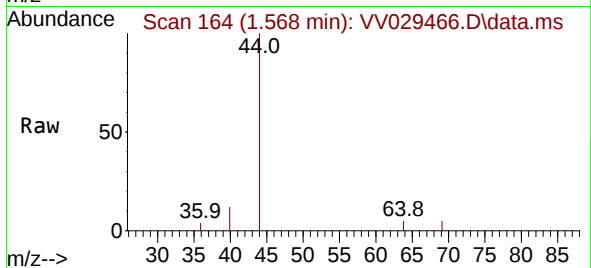




#8
Chloroethane
Concen: 7.406 ug/L
RT: 1.568 min Scan# 11
Delta R.T. -0.013 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

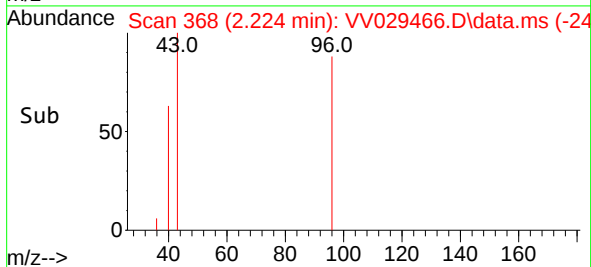
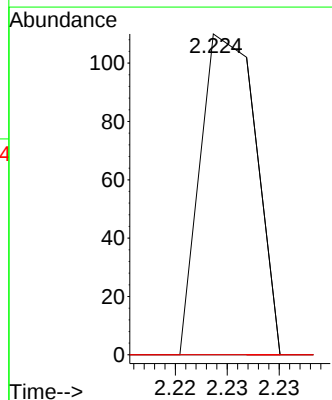
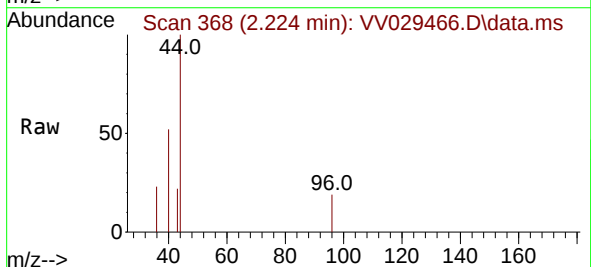
Instrument :
MSVOA_V
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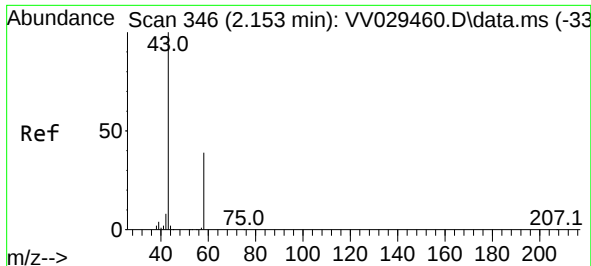
Tgt Ion: 64 Resp: 44
Ion Ratio Lower Upper
64 100
66 0.0 22.5 41.9#



#12
1,1-Dichloroethene
Concen: 5.402 ug/L
RT: 2.224 min Scan# 368
Delta R.T. 0.109 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Tgt Ion: 96 Resp: 41
Ion Ratio Lower Upper
96 100
61 0.0 103.3 191.9#
63 0.0 77.3 143.7#





#13

Acetone

Concen: 619.865 ug/L

RT: 2.163 min Scan# 346

Delta R.T. 0.006 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

Instrument :

MSVOA_V

ClientSampleId :

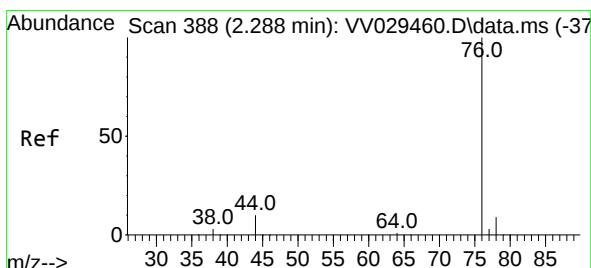
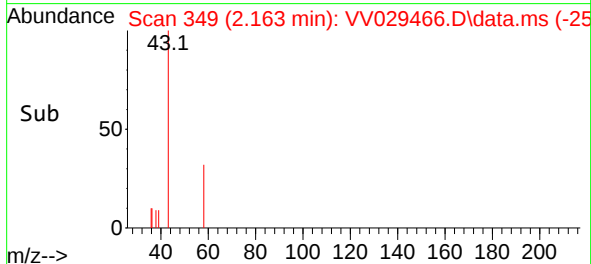
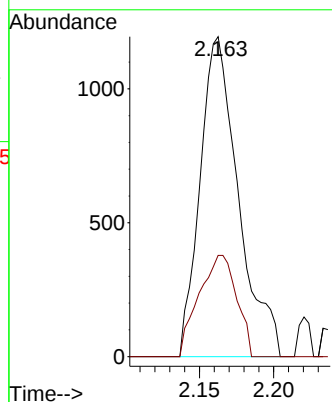
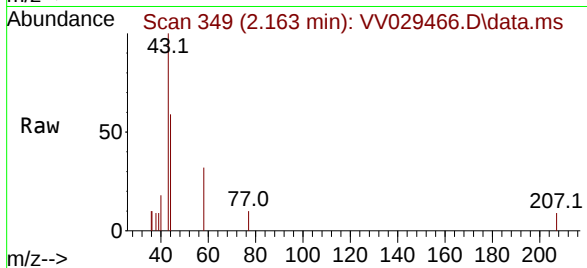
MDL05

Tgt Ion: 43 Resp: 2142

Ion Ratio Lower Upper

43 100

58 31.1 0.0 74.8



#14

Carbon disulfide

Concen: 38.518 ug/L

RT: 2.291 min Scan# 389

Delta R.T. 0.000 min

Lab File: VV029466.D

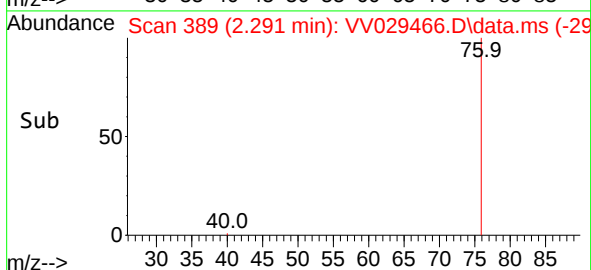
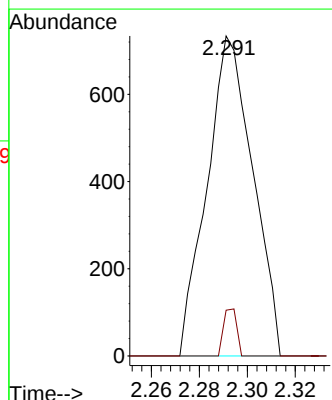
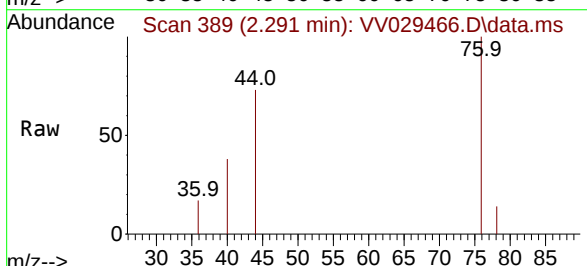
Acq: 08 Dec 2022 12:42

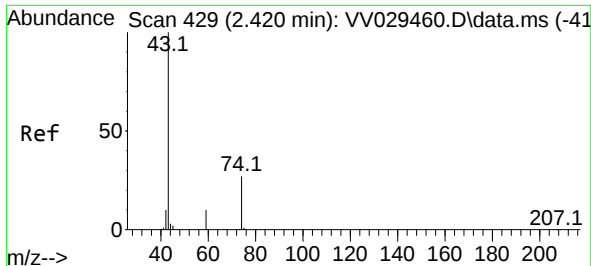
Tgt Ion: 76 Resp: 973

Ion Ratio Lower Upper

76 100

78 14.3 7.4 11.2#

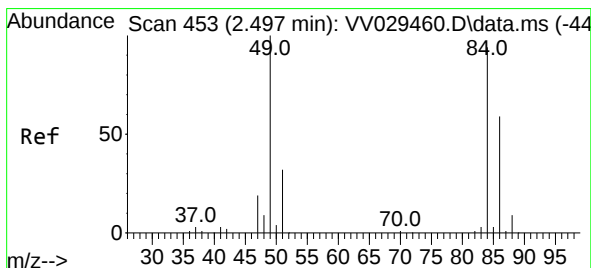
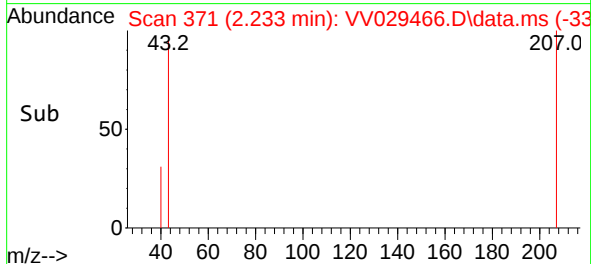
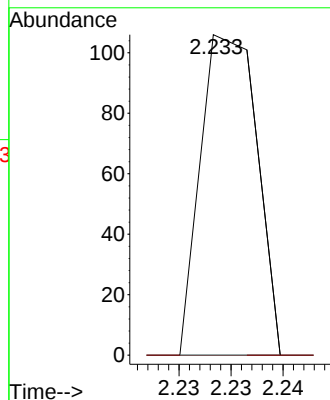
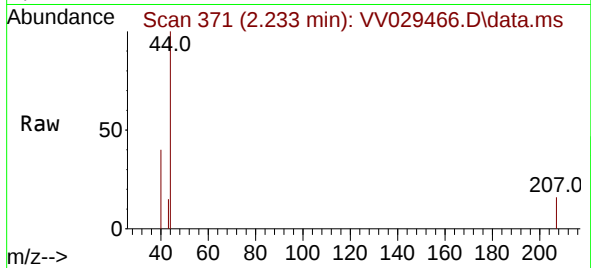




#15
Methyl Acetate
Concen: 5.081 ug/L
RT: 2.233 min Scan# 31
Delta R.T. -0.190 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

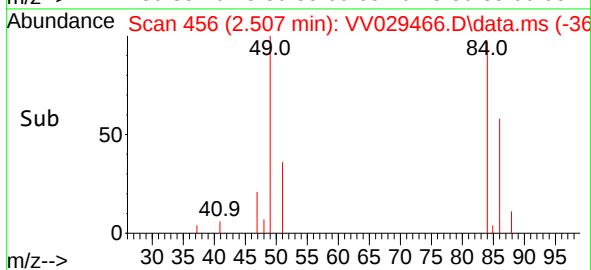
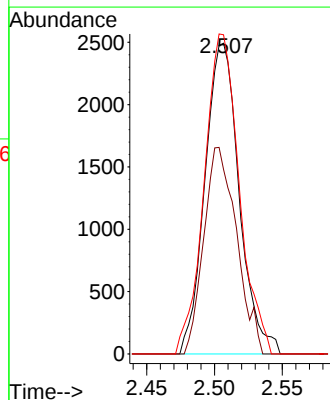
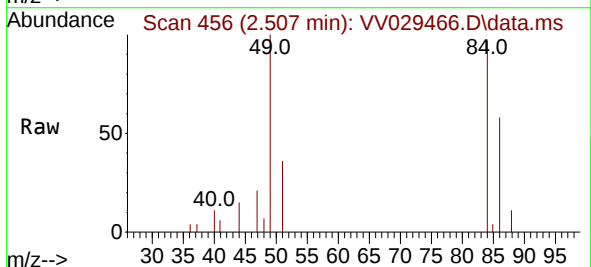
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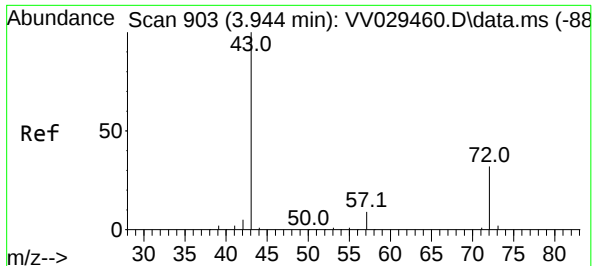
Tgt Ion: 43 Resp: 40
Ion Ratio Lower Upper
43 100
74 0.0 23.5 35.3#



#16
Methylene chloride
Concen: 464.426 ug/L
RT: 2.507 min Scan# 456
Delta R.T. 0.006 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Tgt Ion: 84 Resp: 4383
Ion Ratio Lower Upper
84 100
86 59.4 46.0 85.4
49 102.8 72.2 134.0

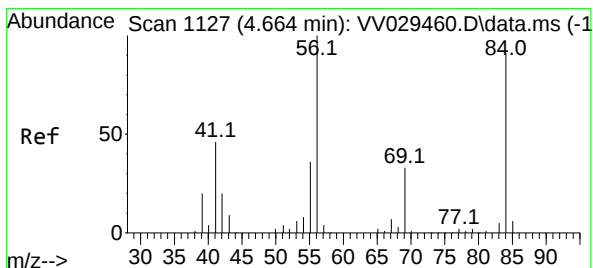
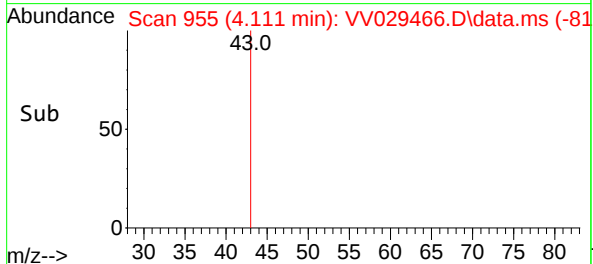
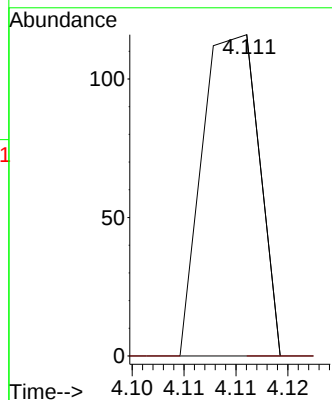
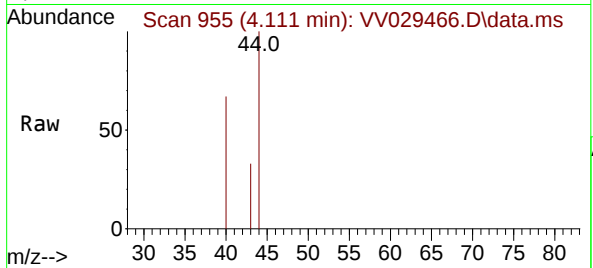




#22
2-Butanone
Concen: 8.002 ug/L
RT: 4.111 min Scan# 911
Delta R.T. 0.158 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

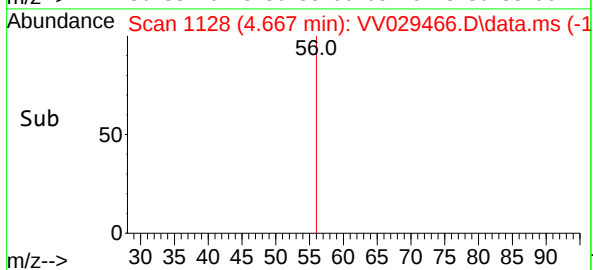
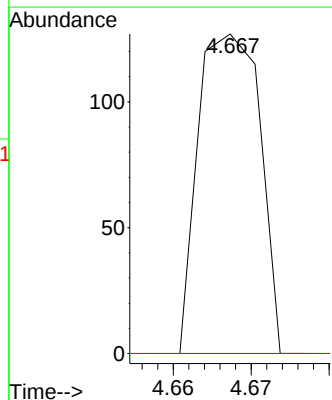
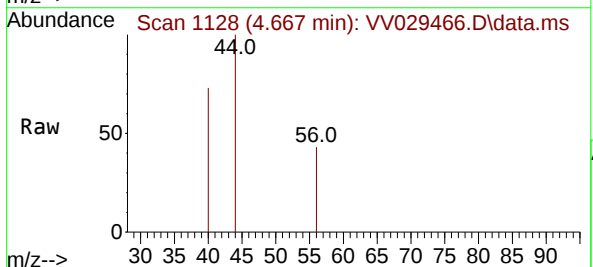
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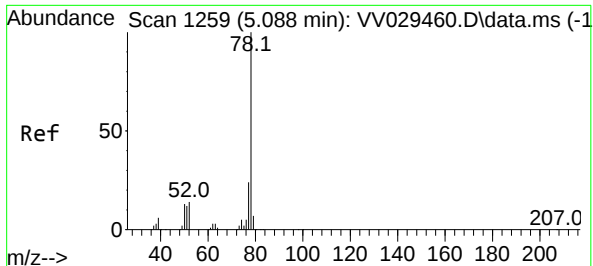
Tgt Ion: 43 Resp: 44
Ion Ratio Lower Upper
43 100
72 0.0 15.9 47.6#



#29
Cyclohexane
Concen: 1.674 ug/L
RT: 4.667 min Scan# 1128
Delta R.T. -0.003 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Tgt Ion: 56 Resp: 70
Ion Ratio Lower Upper
56 100
69 0.0 25.8 38.8#
84 0.0 76.6 114.8#





#33

Benzene

Concen: 1.443 ug/L

RT: 5.085 min Scan# 1

Delta R.T. -0.010 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

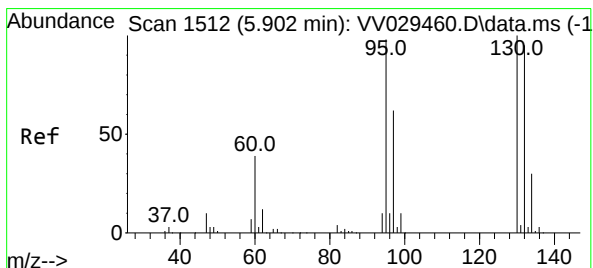
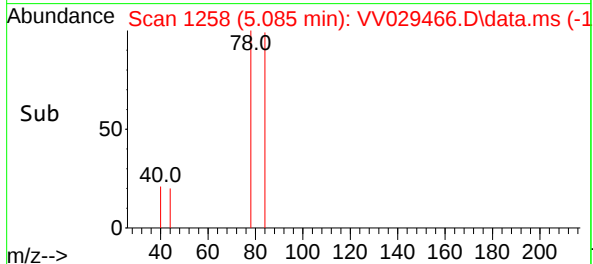
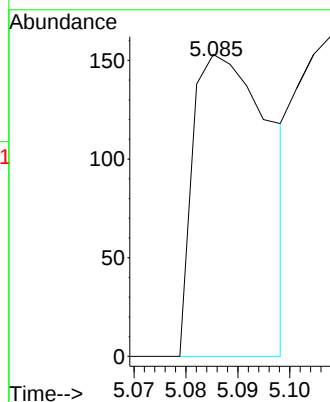
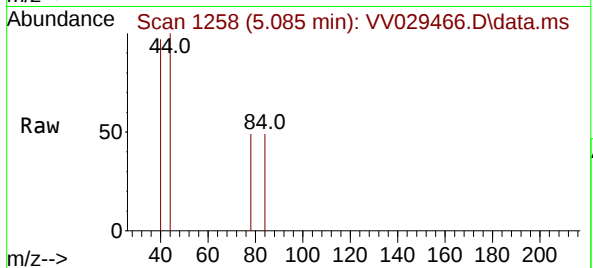
Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tgt Ion: 78 Resp: 157



#34

Trichloroethene

Concen: 2.860 ug/L

RT: 5.921 min Scan# 1518

Delta R.T. 0.013 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

Tgt Ion: 95 Resp: 78

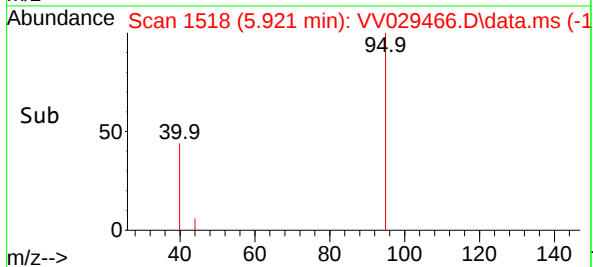
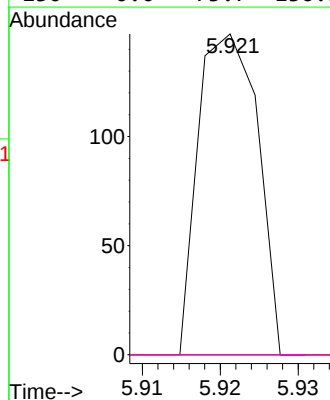
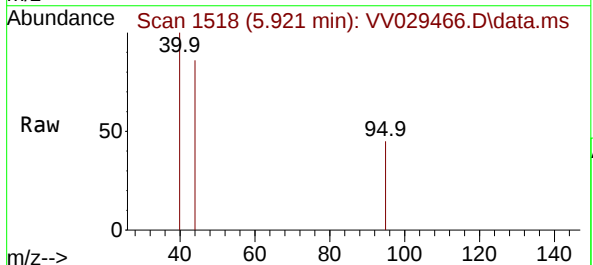
Ion Ratio Lower Upper

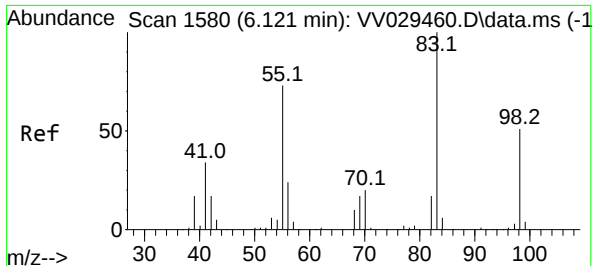
95 100

97 0.0 44.0 81.8#

132 0.0 69.9 129.9#

130 0.0 73.7 136.9#





#35

Methylcyclohexane

Concen: 0.928 ug/L

RT: 6.114 min Scan# 1

Delta R.T. -0.013 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

Instrument :

MSVOA_V

ClientSampleId :

MDL05

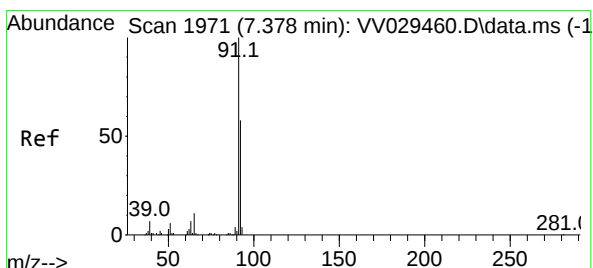
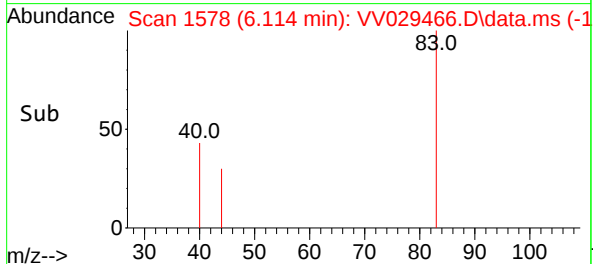
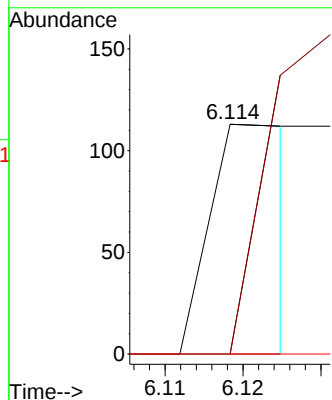
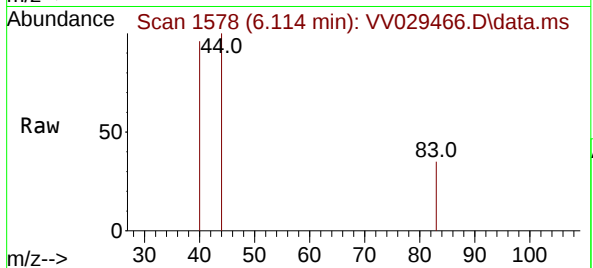
Tgt Ion: 83 Resp: 43

Ion Ratio Lower Upper

83 100

55 251.2 55.5 83.3#

98 0.0 39.8 59.8#



#42

Toluene

Concen: 1.187 ug/L

RT: 7.387 min Scan# 1974

Delta R.T. 0.006 min

Lab File: VV029466.D

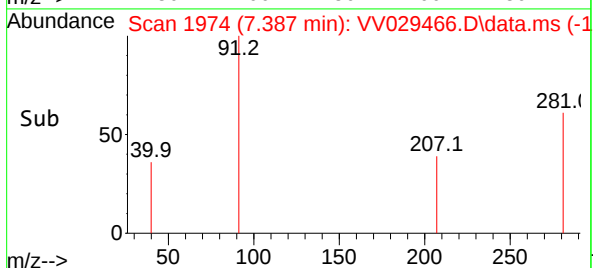
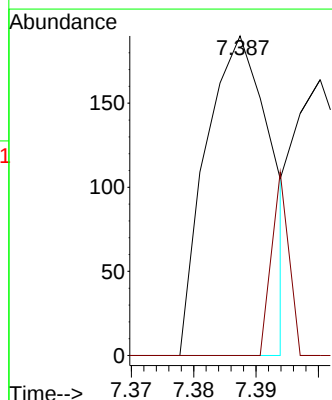
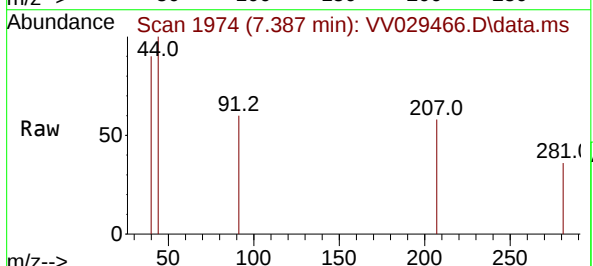
Acq: 08 Dec 2022 12:42

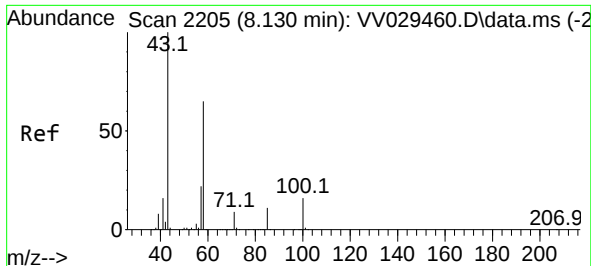
Tgt Ion: 91 Resp: 139

Ion Ratio Lower Upper

91 100

92 0.0 40.6 75.4#



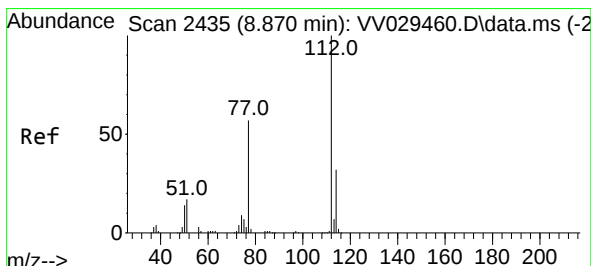
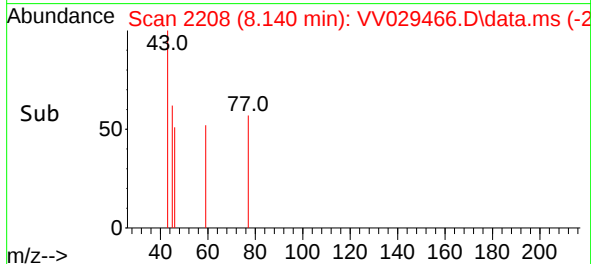
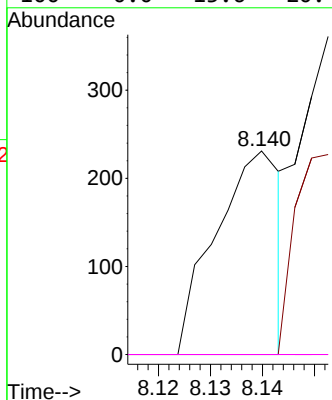
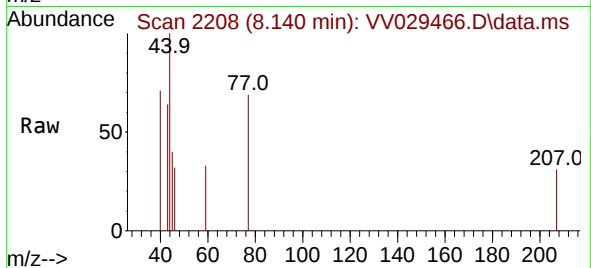


#48
2-Hexanone
Concen: 8.400 ug/L
RT: 8.140 min Scan# 210
Delta R.T. 0.006 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tgt Ion: 43 Resp: 201

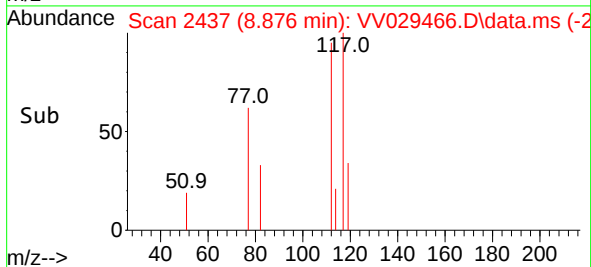
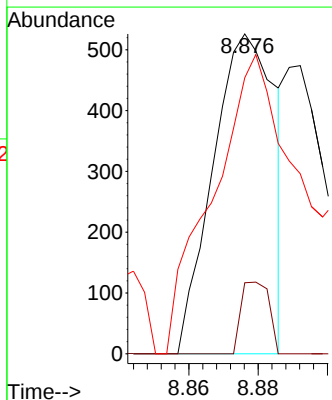
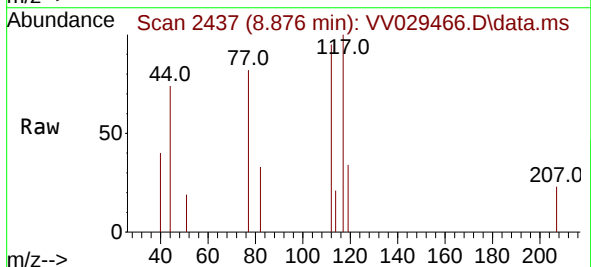
Ion	Ratio	Lower	Upper
43	100		
58	94.0	54.1	81.1#
57	0.0	17.4	26.0#
100	0.0	13.6	20.4#

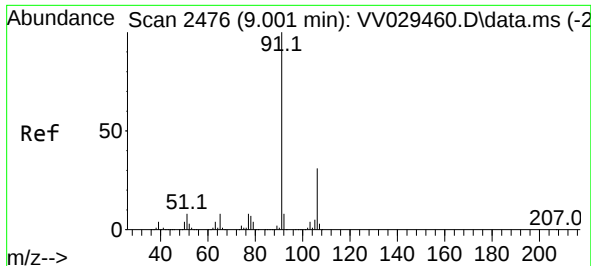


#51
Chlorobenzene
Concen: 8.804 ug/L
RT: 8.876 min Scan# 2437
Delta R.T. 0.003 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Tgt Ion: 112 Resp: 653

Ion	Ratio	Lower	Upper
112	100		
114	22.2	22.3	41.3#
77	86.3	45.0	67.4#





#52

Ethylbenzene

Concen: 2.566 ug/L

RT: 9.014 min Scan# 24

Delta R.T. 0.010 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

Instrument :

MSVOA_V

ClientSampleId :

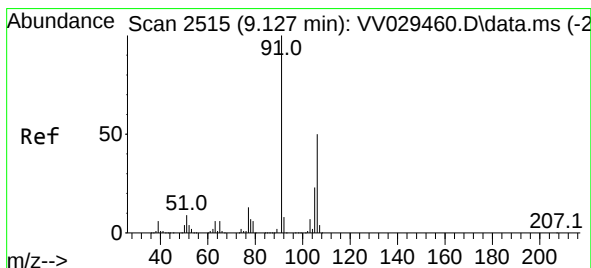
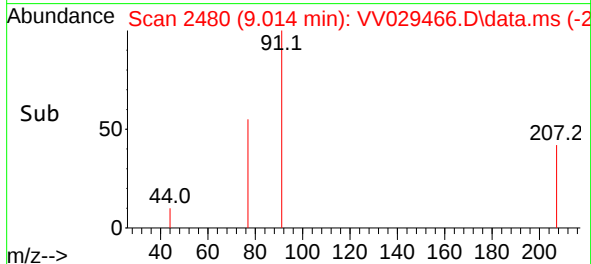
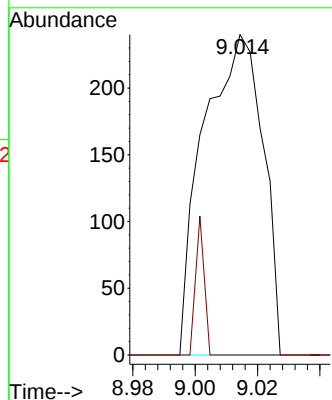
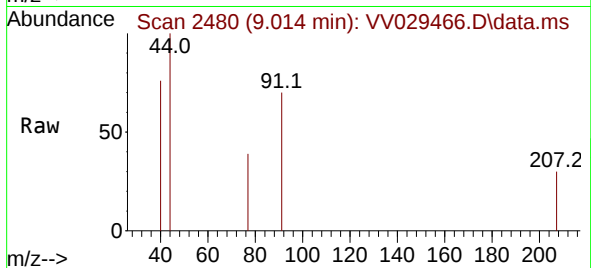
MDL05

Tgt Ion: 91 Resp: 316

Ion Ratio Lower Upper

91 100

106 0.0 21.8 40.6#



#53

m,p-Xylene

Concen: 1.805 ug/L

RT: 9.137 min Scan# 2518

Delta R.T. 0.006 min

Lab File: VV029466.D

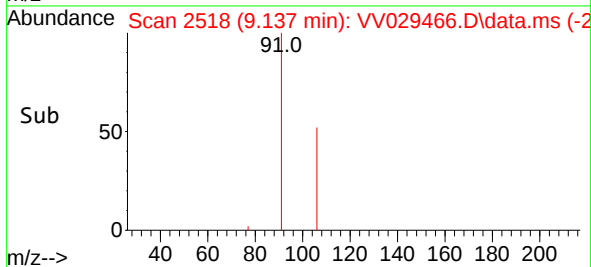
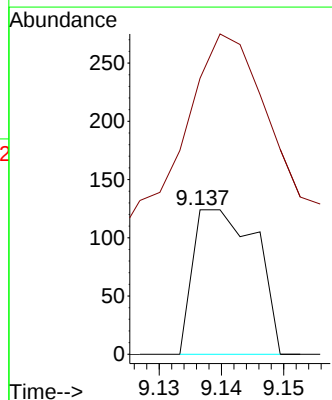
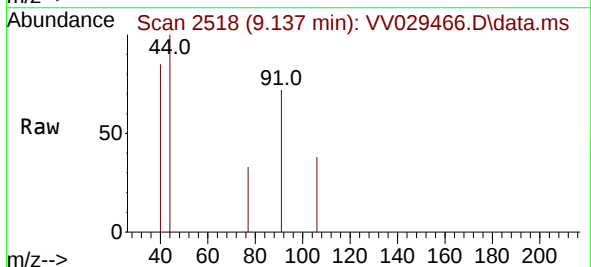
Acq: 08 Dec 2022 12:42

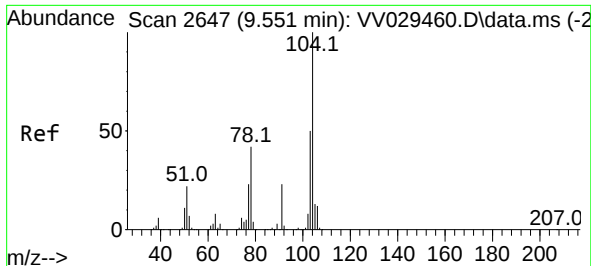
Tgt Ion:106 Resp: 88

Ion Ratio Lower Upper

106 100

91 191.1 139.5 259.1

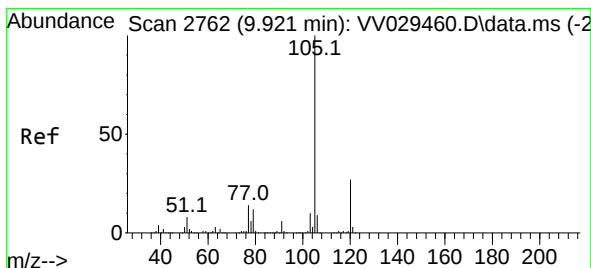
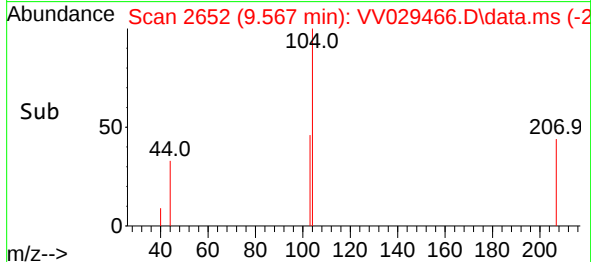
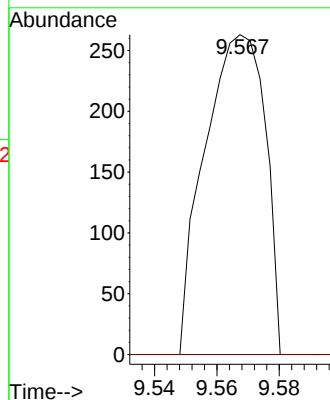
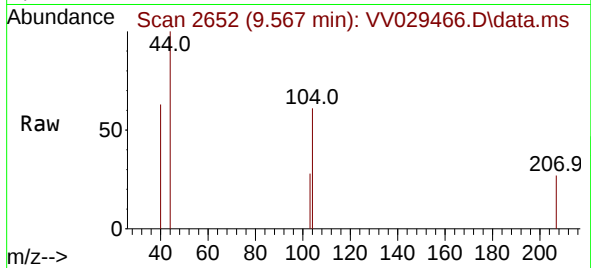




#55
Styrene
Concen: 4.225 ug/L
RT: 9.567 min Scan# 210
Delta R.T. 0.016 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

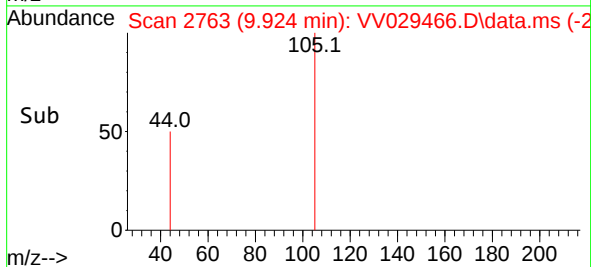
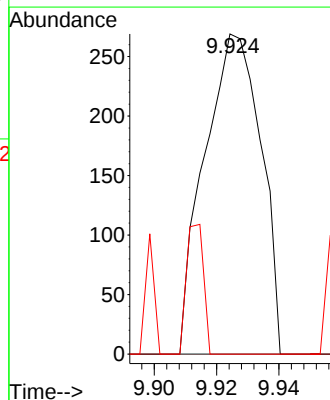
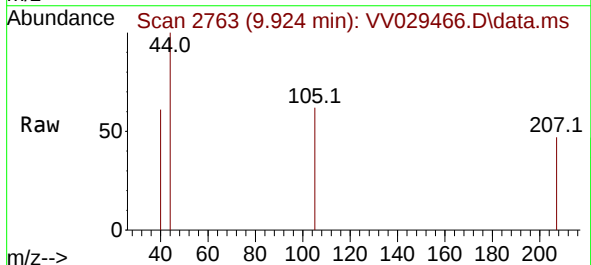
Instrument :
MSVOA_V
ClientSampleId :
MDL05

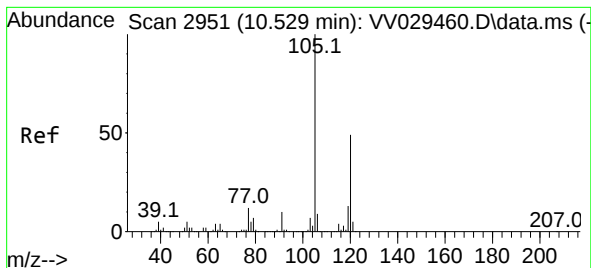
Tgt Ion:104 Resp: 354
Ion Ratio Lower Upper
104 100
78 0.0 29.4 54.6#



#60
Isopropylbenzene
Concen: 1.300 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. 0.003 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Tgt Ion:105 Resp: 338
Ion Ratio Lower Upper
105 100
120 0.0 21.1 31.7#
77 12.4 11.6 17.4

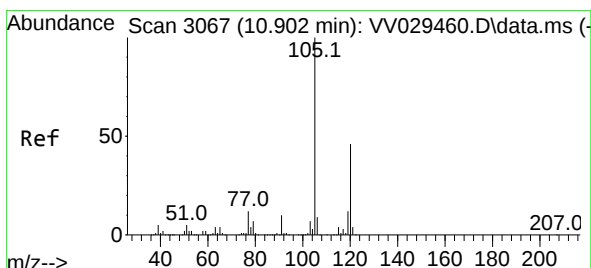
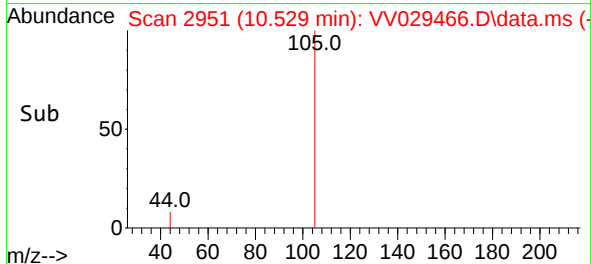
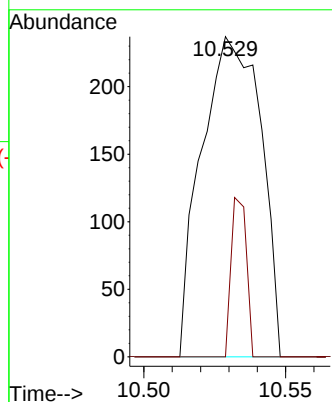
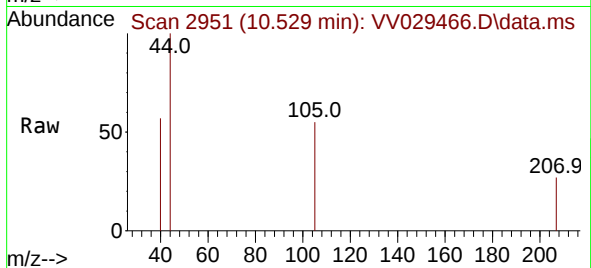




#62
1,3,5-Trimethylbenzene
Concen: 1.501 ug/L
RT: 10.529 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

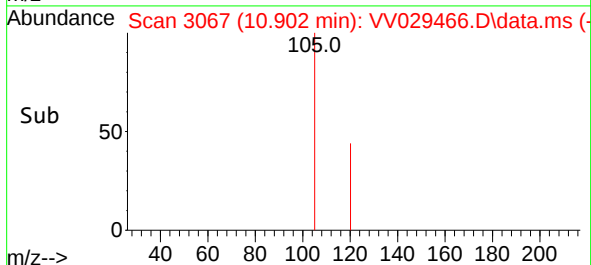
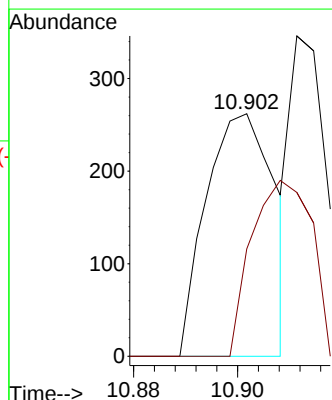
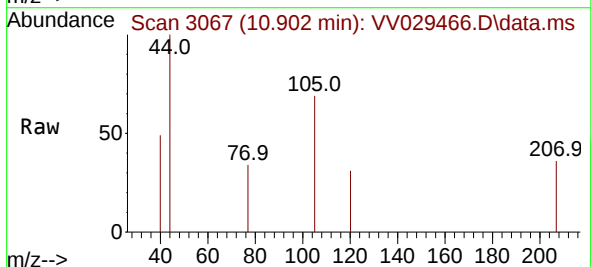
Instrument :
MSVOA_V
ClientSampleId :
MDL05

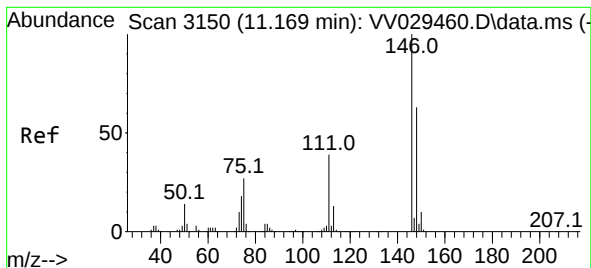
Tgt Ion:105 Resp: 345
Ion Ratio Lower Upper
105 100
120 12.8 40.0 60.0#



#63
1,2,4-Trimethylbenzene
Concen: 1.049 ug/L
RT: 10.902 min Scan# 3067
Delta R.T. -0.003 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Tgt Ion:105 Resp: 239
Ion Ratio Lower Upper
105 100
120 0.0 36.7 55.1#





#64

1,3-Dichlorobenzene

Concen: 3.249 ug/L

RT: 11.178 min Scan# 3153

Delta R.T. 0.010 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

Instrument :

MSVOA_V

ClientSampleId :

MDL05

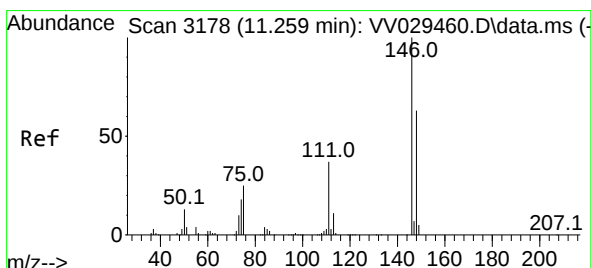
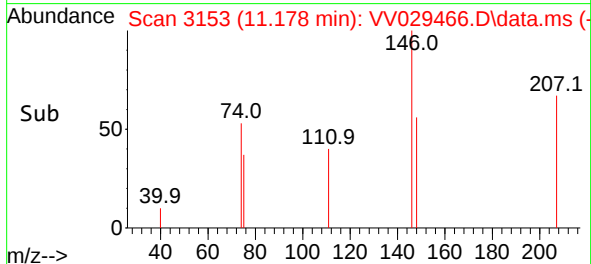
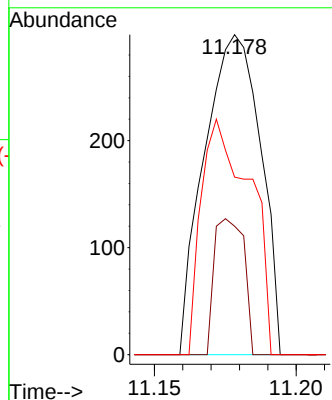
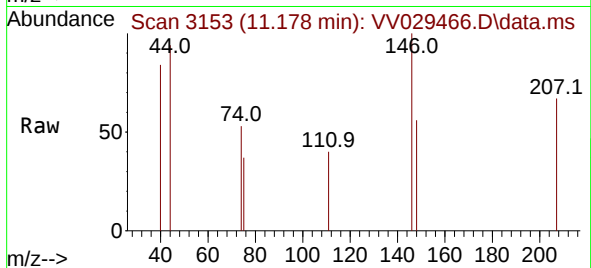
Tgt Ion:146 Resp: 413

Ion Ratio Lower Upper

146 100

111 40.1 27.4 51.0

148 55.5 44.6 82.8



#65

1,4-Dichlorobenzene

Concen: 6.077 ug/L

RT: 11.272 min Scan# 3182

Delta R.T. 0.010 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

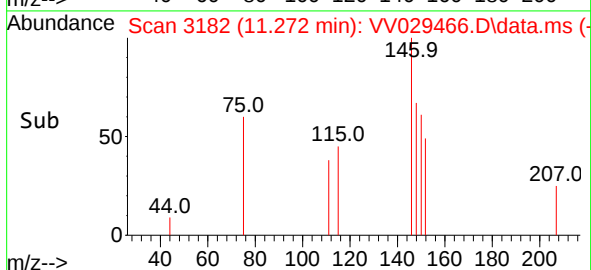
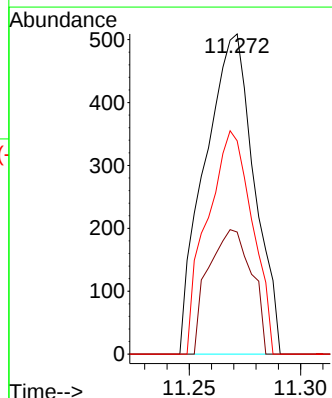
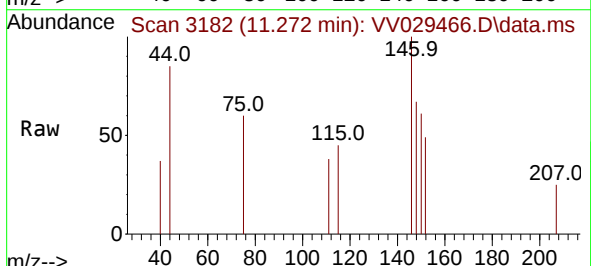
Tgt Ion:146 Resp: 785

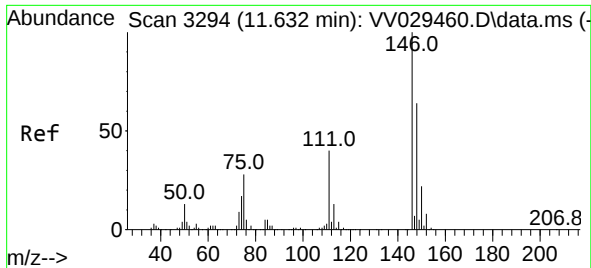
Ion Ratio Lower Upper

146 100

111 38.1 26.2 48.8

148 66.6 44.7 83.1

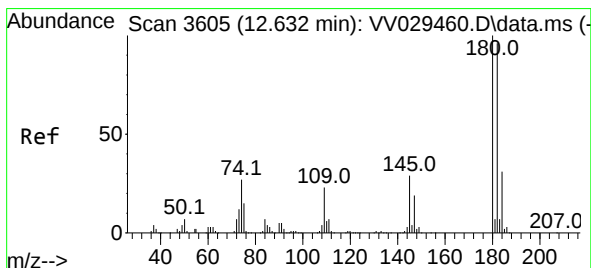
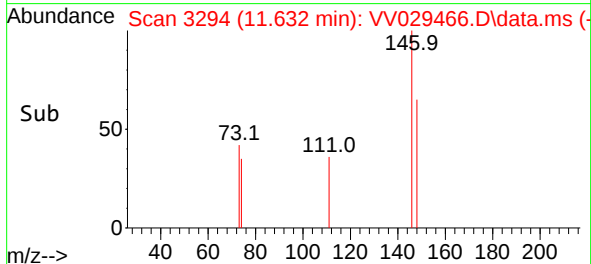
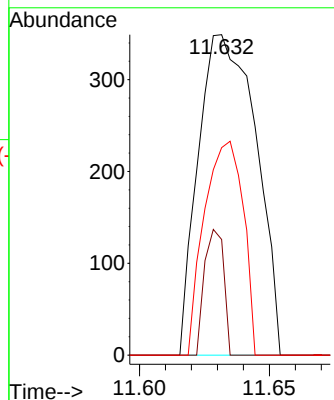
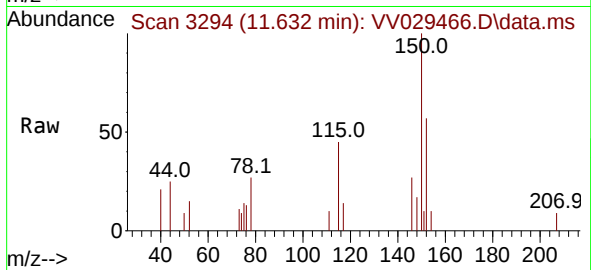




#67
1,2-Dichlorobenzene
Concen: 4.139 ug/L
RT: 11.632 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

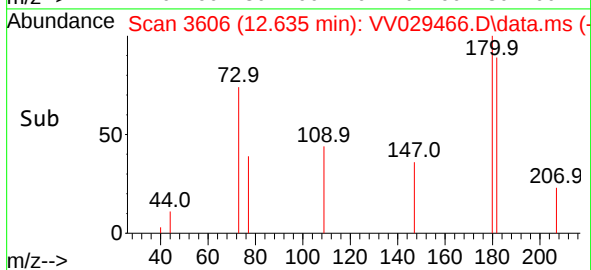
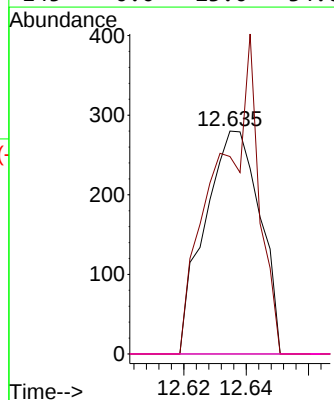
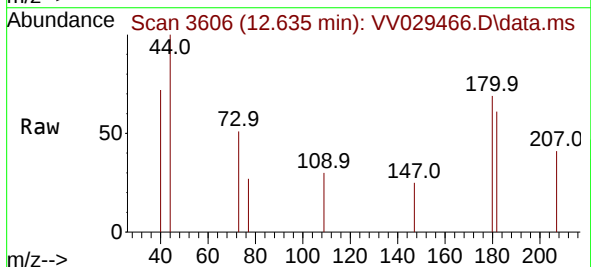
Instrument :
MSVOA_V
ClientSampleId :
MDL05

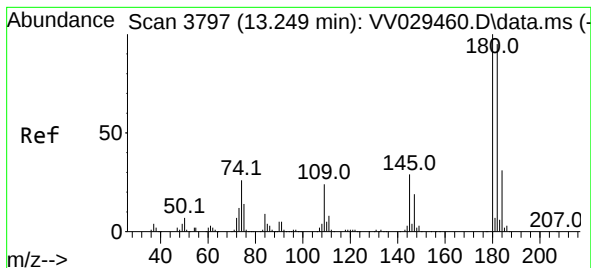
Tgt Ion:146 Resp: 538
Ion Ratio Lower Upper
146 100
111 36.1 32.0 48.0
148 64.8 50.6 76.0



#69
1,3,5-Trichlorobenzene
Concen: 3.401 ug/L
RT: 12.635 min Scan# 3606
Delta R.T. 0.003 min
Lab File: VV029466.D
Acq: 08 Dec 2022 12:42

Tgt Ion:180 Resp: 344
Ion Ratio Lower Upper
180 100
182 68.6 76.5 114.7#
184 0.0 24.6 36.8#
145 0.0 23.0 34.6#





#70

1,2,4-trichlorobenzene

Concen: 6.815 ug/L

RT: 13.252 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

Instrument :

MSVOA_V

ClientSampleId :

MDL05

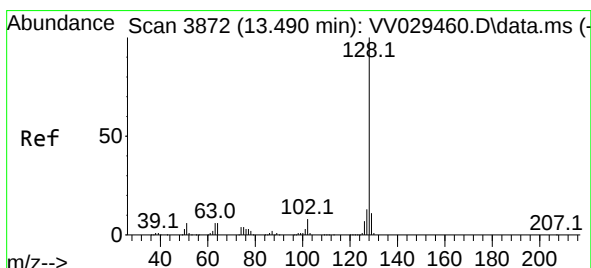
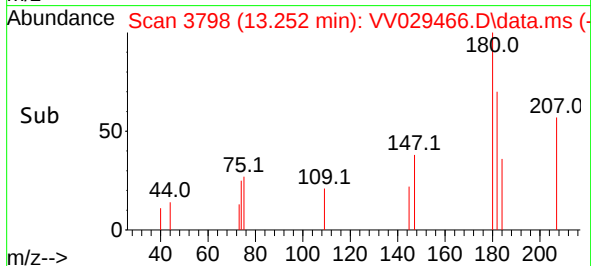
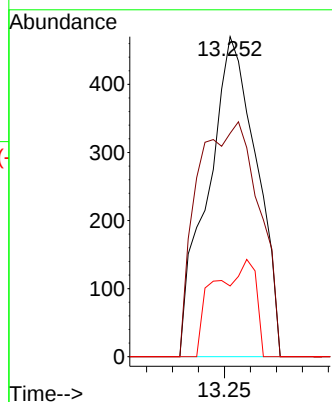
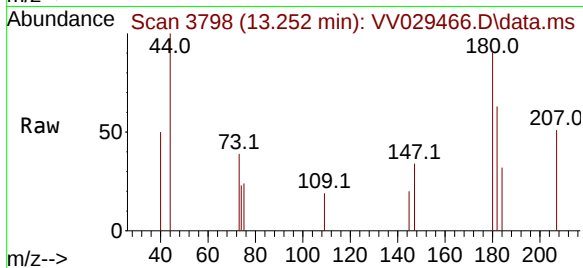
Tgt Ion:180 Resp: 613

Ion Ratio Lower Upper

180 100

182 43.4 76.3 114.5#

145 13.5 23.7 35.5#



#71

Naphthalene

Concen: 28.783 ug/L

RT: 13.496 min Scan# 3874

Delta R.T. 0.003 min

Lab File: VV029466.D

Acq: 08 Dec 2022 12:42

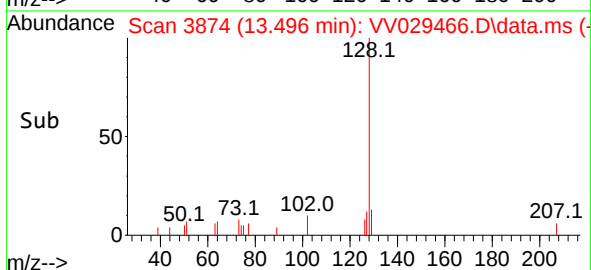
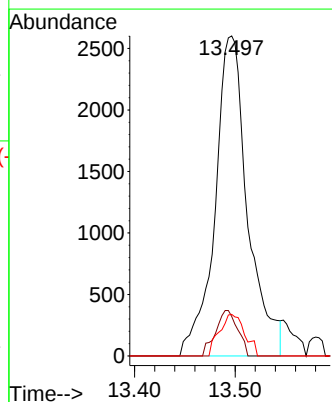
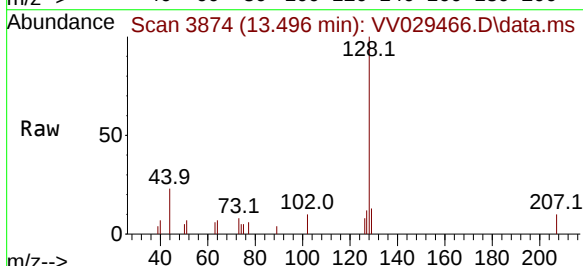
Tgt Ion:128 Resp: 5873

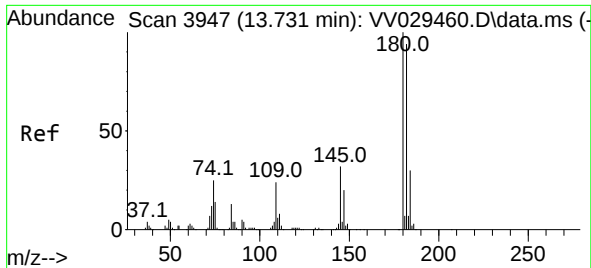
Ion Ratio Lower Upper

128 100

127 8.9 10.2 15.4#

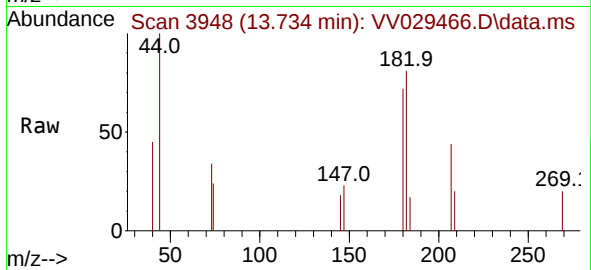
129 9.3 8.5 12.7





#72
 1,2,3-Trichlorobenzene
 Concen: 6.798 ug/L
 RT: 13.734 min Scan# 3948
 Delta R.T. 0.003 min
 Lab File: VV029466.D
 Acq: 08 Dec 2022 12:42

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05



Tgt Ion:	180	Resp:	599
Ion	Ratio	Lower	Upper
180	100		
182	106.8	76.4	114.6
145	0.0	25.0	37.6#

