

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121223\
 Data File : VD077846.D
 Acq On : 12 Dec 2023 17:02
 Operator : JC/SY
 Sample : 05737-01
 Misc : 5.02G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-02-12082023

Quant Time: Dec 13 03:11:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 08 13:33:18 2023
 Response via : Initial Calibration

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

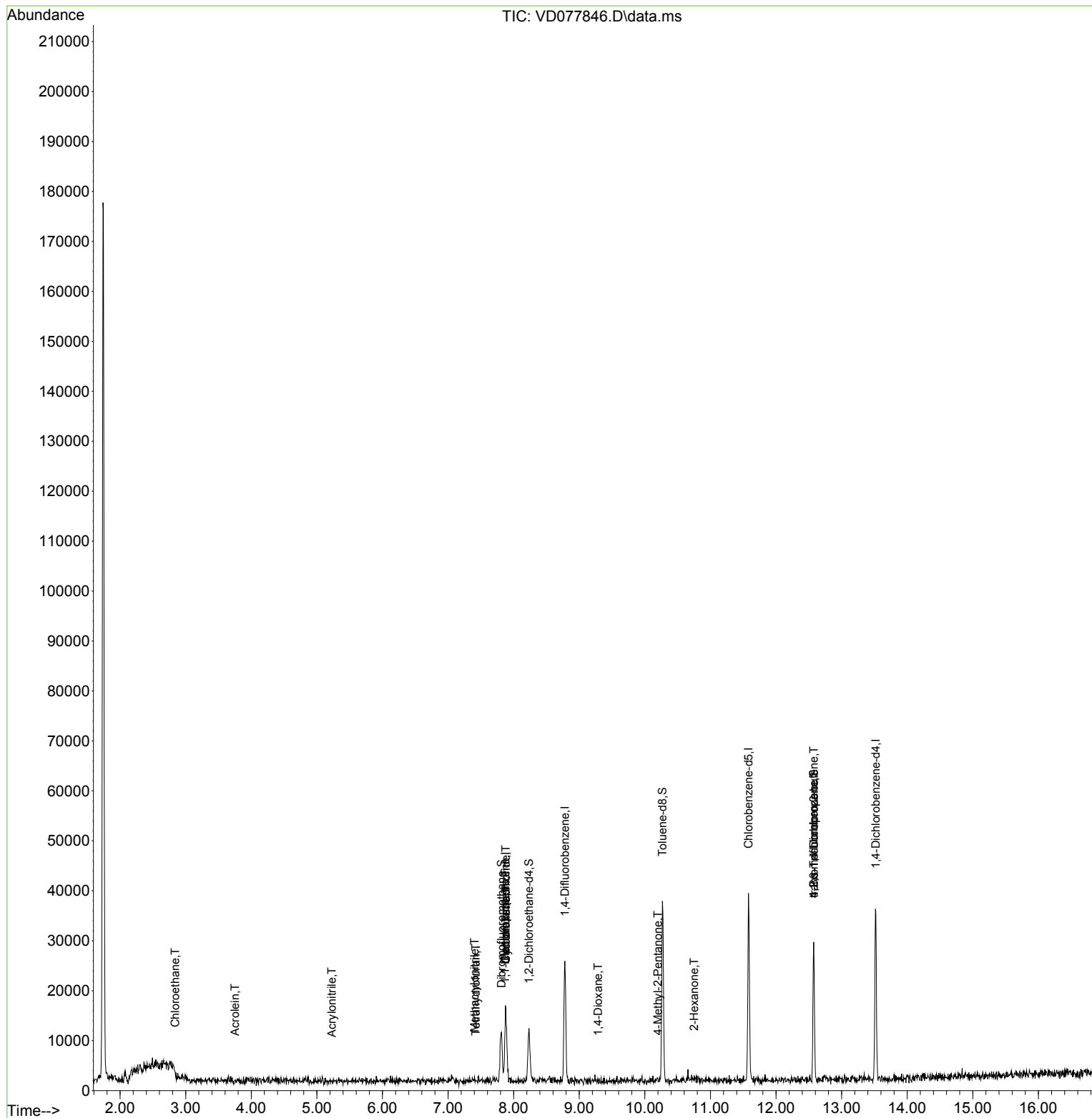
Internal Standards						
1) Pentafluorobenzene	7.875	168	10977	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	21236	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	20566	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	9455	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	8324	64.353	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	128.700%
35) Dibromofluoromethane	7.816	113	6979	46.917	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	93.840%
50) Toluene-d8	10.269	98	25592	42.956	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.920%
62) 4-Bromofluorobenzene	12.575	95	7504	42.129	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	84.260%
Target Compounds						
					Qvalue	
6) Chloroethane	2.840	64	363	2.098	ug/l #	43
13) Acrolein	3.752	56	61	4.458	ug/l #	15
15) Acrylonitrile	5.228	53	95	3.381	ug/l #	15
16) Acetone	4.028	43	81	Below Cal	#	32
20) Methylene Chloride	4.816	84	147	Below Cal	#	59
25) 2-Butanone	7.093	43	65	Below Cal	#	37
29) Tetrahydrofuran	7.422	42	72	3.496	ug/l #	23
31) Cyclohexane	7.881	56	449	1.952	ug/l #	8
36) 1,1-Dichloropropene	7.869	75	529	2.223	ug/l #	39
38) Carbon Tetrachloride	7.881	117	1038	4.376	ug/l #	11
41) Methacrylonitrile	7.405	41	145	3.075	ug/l #	1
49) 1,4-Dioxane	9.287	88	70	81.158	ug/l #	33
51) 4-Methyl-2-Pentanone	10.198	43	123	1.461	ug/l #	28
59) 2-Hexanone	10.751	43	131	1.876	ug/l	69
65) Chlorobenzene	11.593	112	54	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.575	75	4502	54.824	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	4502	111.077	ug/l #	17

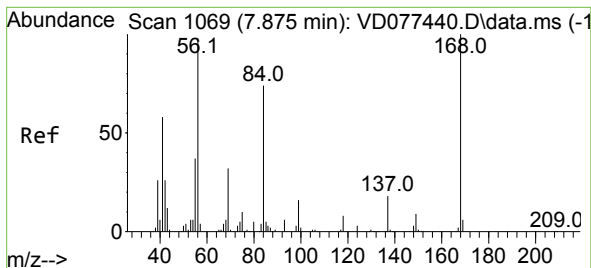
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 08 13:33:18 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD077846.D

Acq: 12 Dec 2023 17:02

Instrument :

MSVOA_D

ClientSampleId :

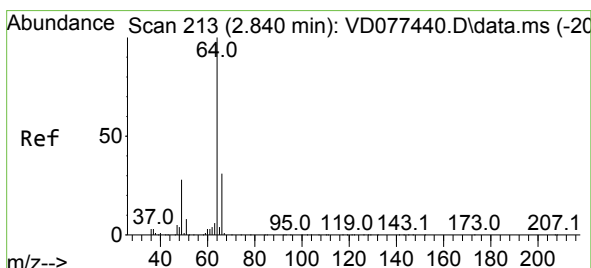
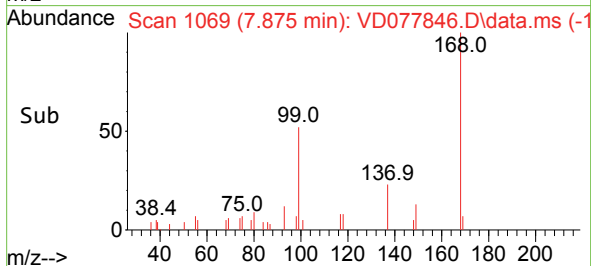
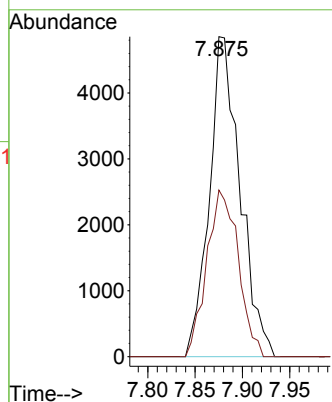
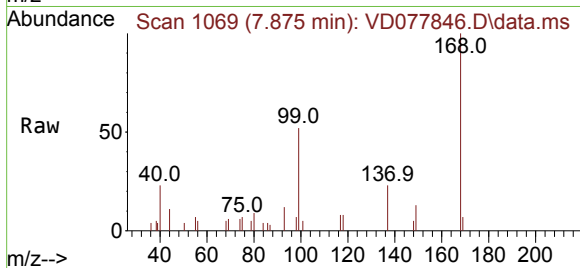
SU-02-12082023

Tgt Ion:168 Resp: 10977

Ion Ratio Lower Upper

168 100

99 52.0 36.7 55.1



#6

Chloroethane

Concen: 2.098 ug/l

RT: 2.840 min Scan# 213

Delta R.T. 0.000 min

Lab File: VD077846.D

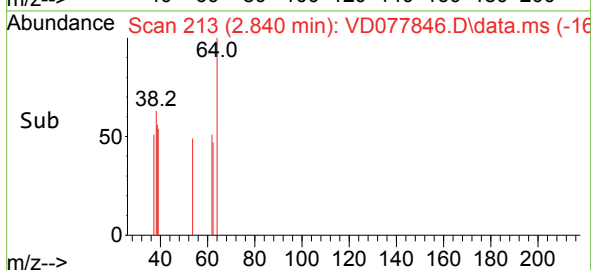
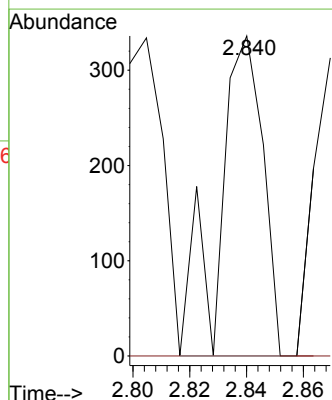
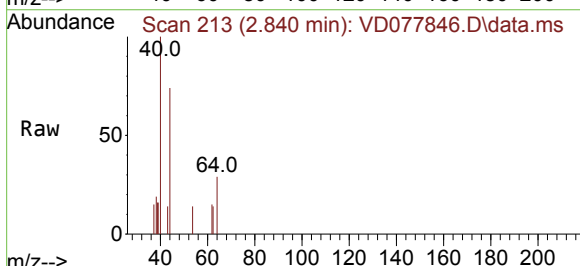
Acq: 12 Dec 2023 17:02

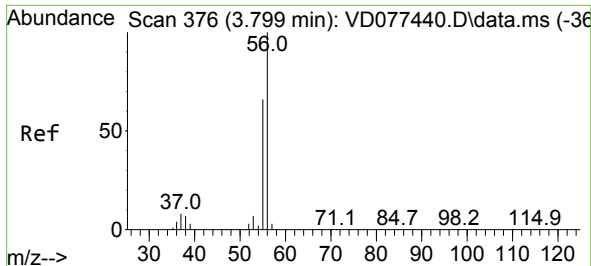
Tgt Ion: 64 Resp: 363

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

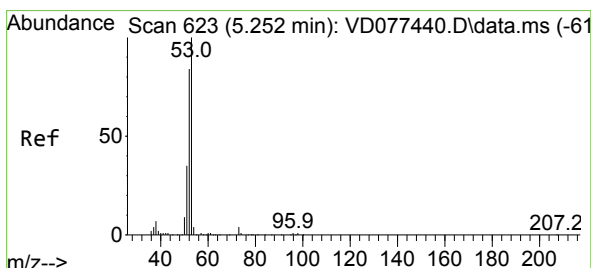
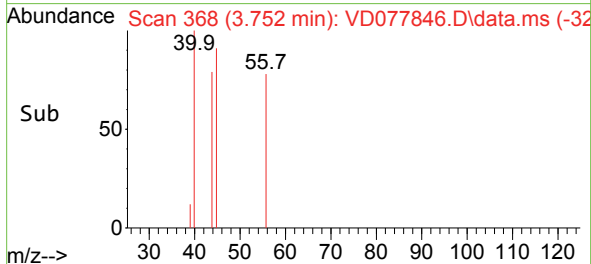
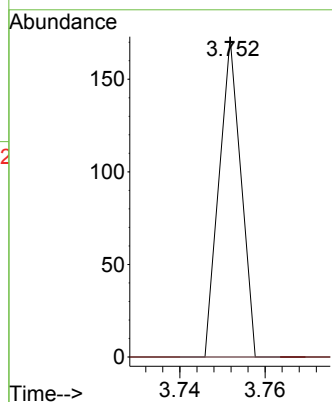
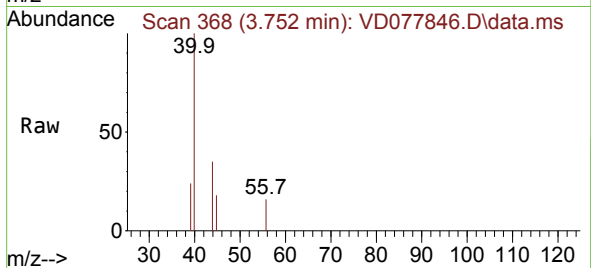




#13
Acrolein
Concen: 4.458 ug/l
RT: 3.752 min Scan# 30
Delta R.T. -0.047 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

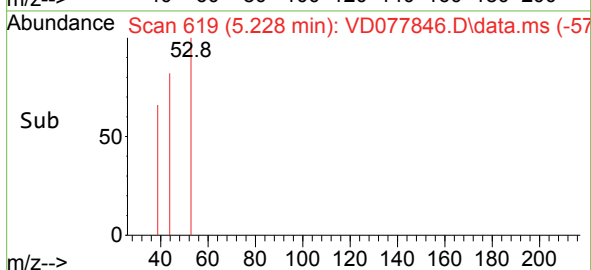
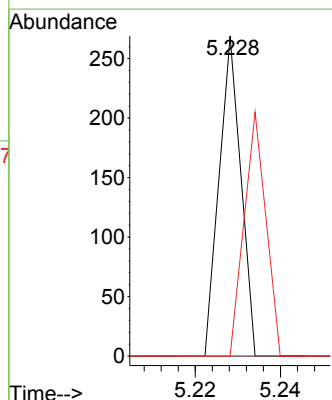
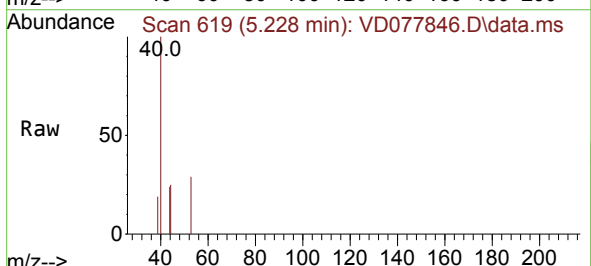
Instrument :
MSVOA_D
ClientSampleId :
SU-02-12082023

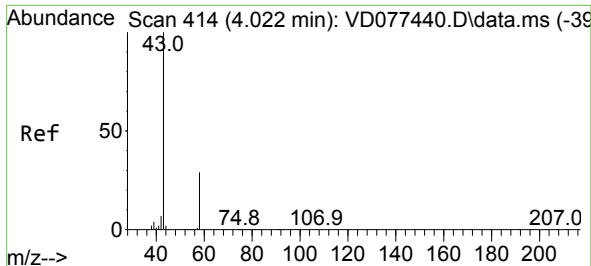
Tgt Ion: 56 Resp: 61
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#



#15
Acrylonitrile
Concen: 3.381 ug/l
RT: 5.228 min Scan# 619
Delta R.T. -0.024 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

Tgt Ion: 53 Resp: 95
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 75.8 28.3 42.5#

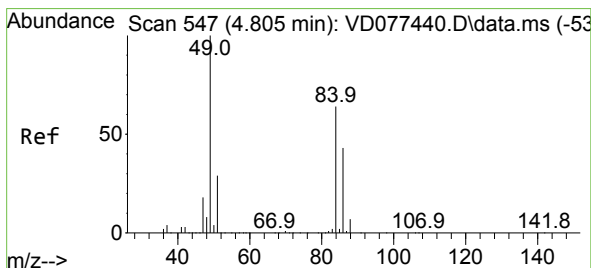
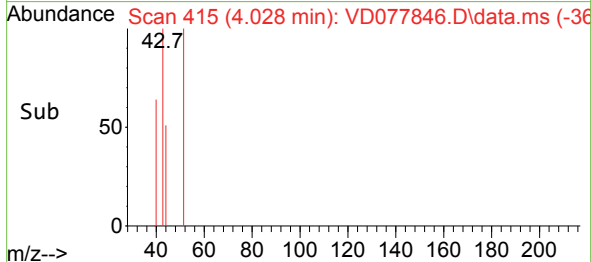
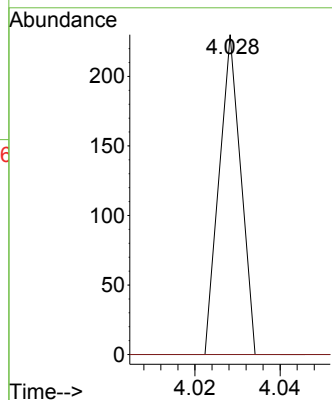
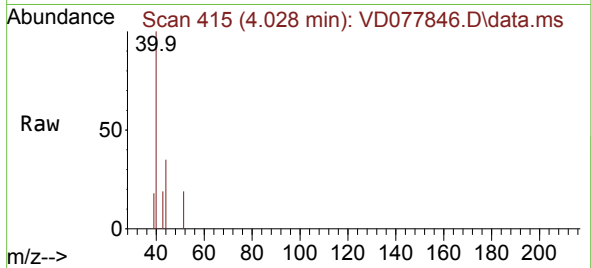




#16
Acetone
Concen: Below Cal
RT: 4.028 min Scan# 41
Delta R.T. 0.006 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

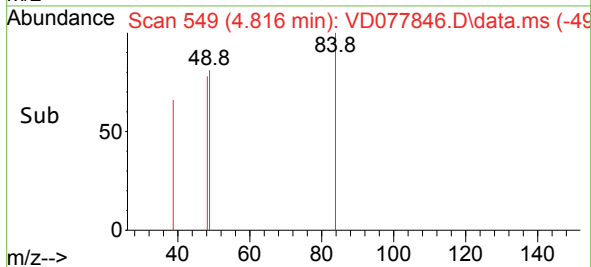
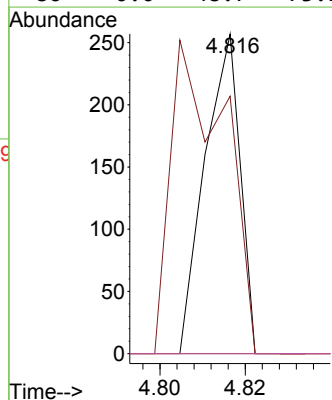
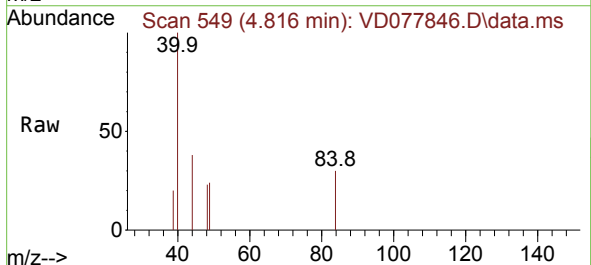
Instrument :
MSVOA_D
ClientSampleId :
SU-02-12082023

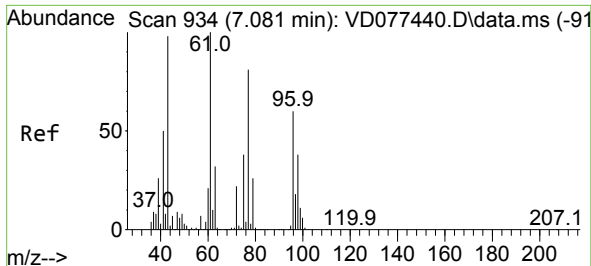
Tgt Ion: 43 Resp: 81
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.816 min Scan# 549
Delta R.T. 0.011 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

Tgt Ion: 84 Resp: 147
Ion Ratio Lower Upper
84 100
49 80.5 71.4 107.2
51 0.0 24.5 36.7#
86 0.0 48.7 73.1#





#25

2-Butanone

Concen: Below Cal

RT: 7.093 min Scan# 91

Delta R.T. 0.012 min

Lab File: VD077846.D

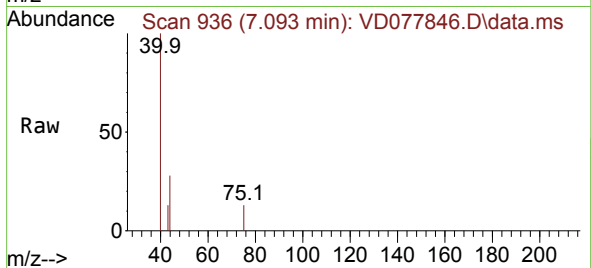
Acq: 12 Dec 2023 17:02

Instrument :

MSVOA_D

ClientSampleId :

SU-02-12082023

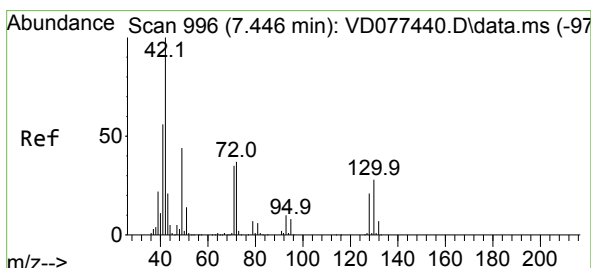
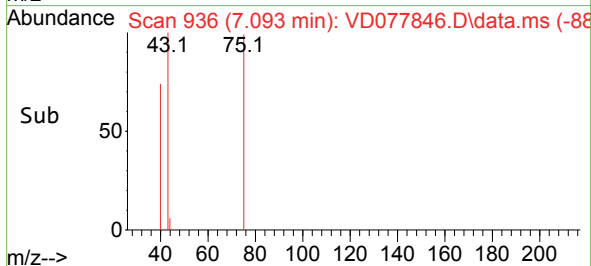
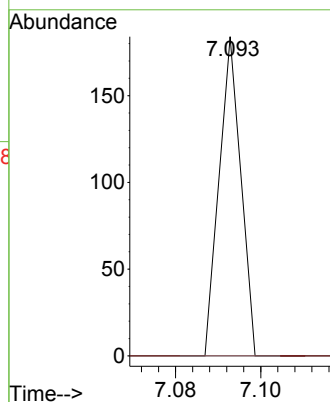


Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

72 0.0 30.7 46.1#



#29

Tetrahydrofuran

Concen: 3.496 ug/l

RT: 7.422 min Scan# 992

Delta R.T. -0.024 min

Lab File: VD077846.D

Acq: 12 Dec 2023 17:02

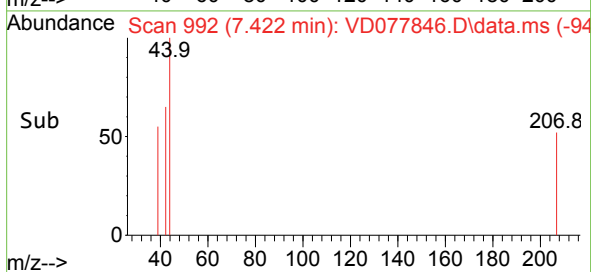
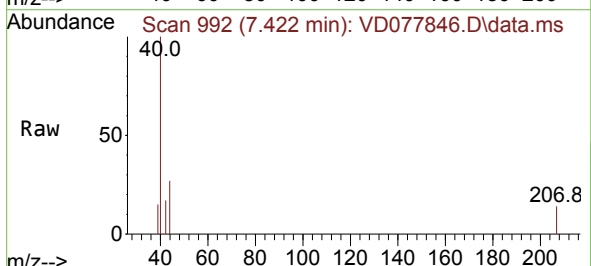
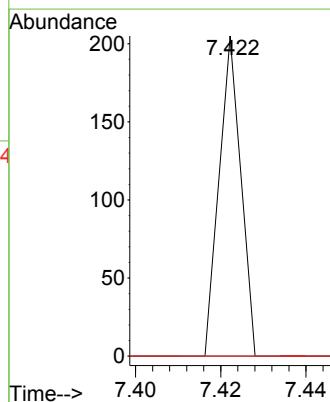
Tgt Ion: 42 Resp: 72

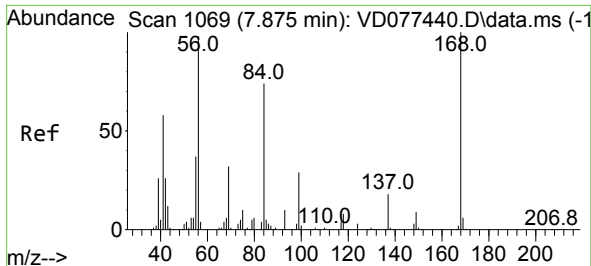
Ion Ratio Lower Upper

42 100

72 0.0 46.5 69.7#

71 0.0 44.5 66.7#

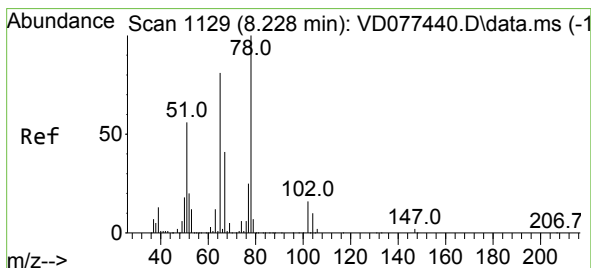
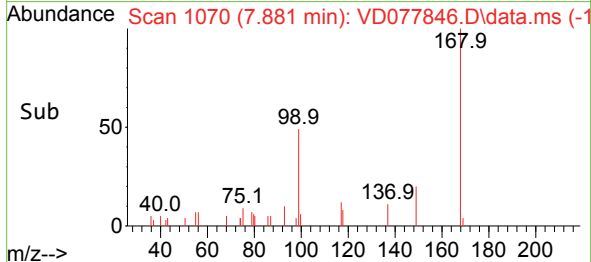
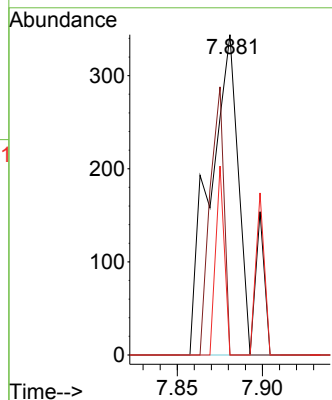
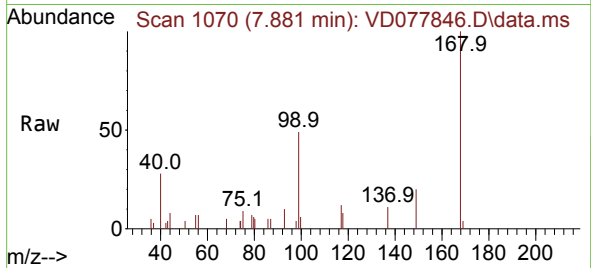




#31
Cyclohexane
Concen: 1.952 ug/l
RT: 7.881 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

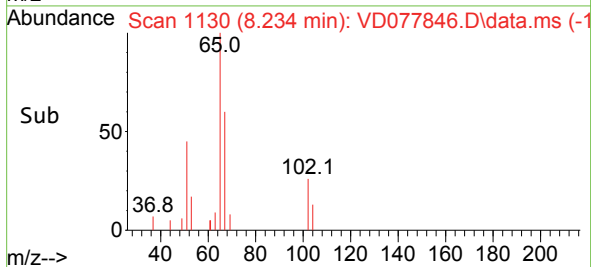
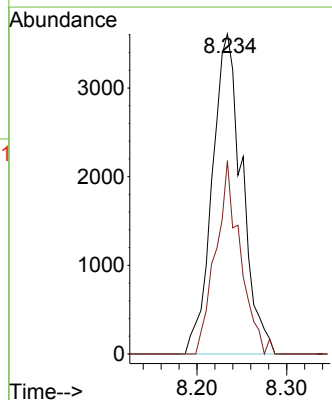
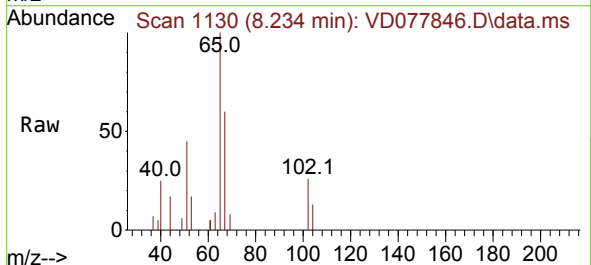
Instrument :
MSVOA_D
ClientSampleId :
SU-02-12082023

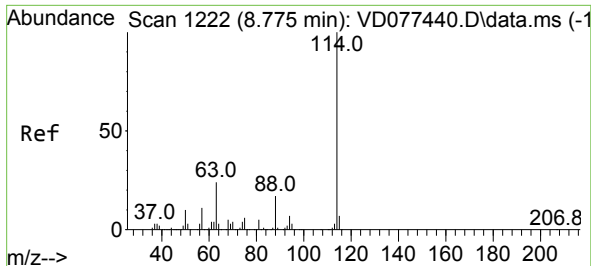
Tgt Ion: 56 Resp: 449
Ion Ratio Lower Upper
56 100
69 0.0 28.6 43.0#
84 0.0 84.8 127.2#



#33
1,2-Dichloroethane-d4
Concen: 64.353 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

Tgt Ion: 65 Resp: 8324
Ion Ratio Lower Upper
65 100
67 49.9 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD077846.D

Acq: 12 Dec 2023 17:02

Instrument :

MSVOA_D

ClientSampleId :

SU-02-12082023

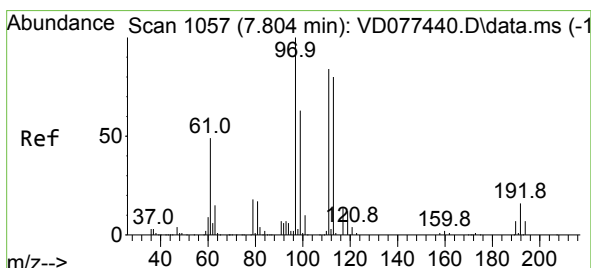
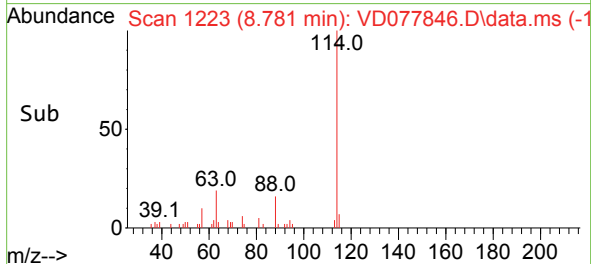
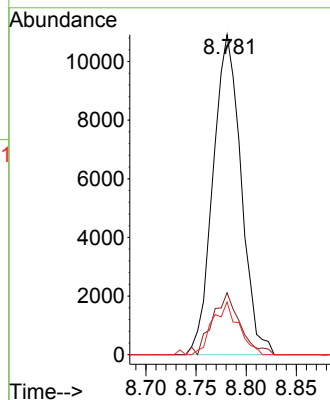
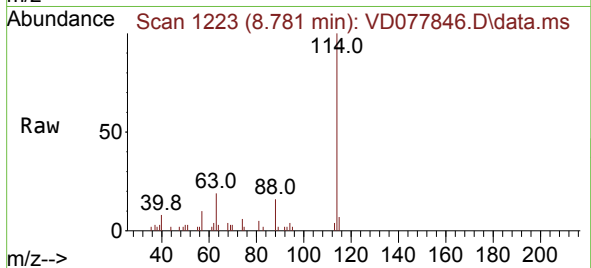
Tgt Ion:114 Resp: 21236

Ion Ratio Lower Upper

114 100

63 19.4 0.0 33.4

88 16.4 0.0 26.2



#35

Dibromofluoromethane

Concen: 46.917 ug/l

RT: 7.816 min Scan# 1059

Delta R.T. 0.012 min

Lab File: VD077846.D

Acq: 12 Dec 2023 17:02

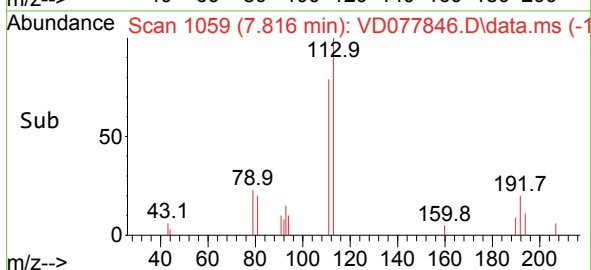
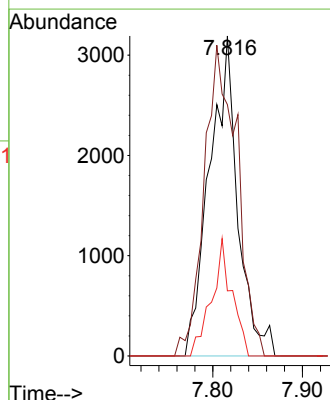
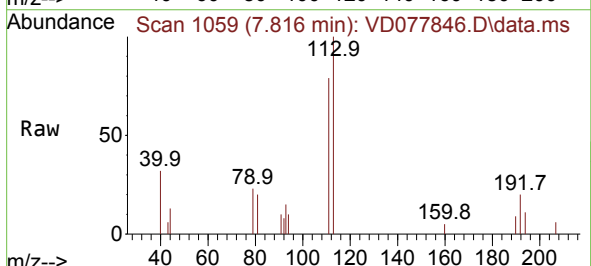
Tgt Ion:113 Resp: 6979

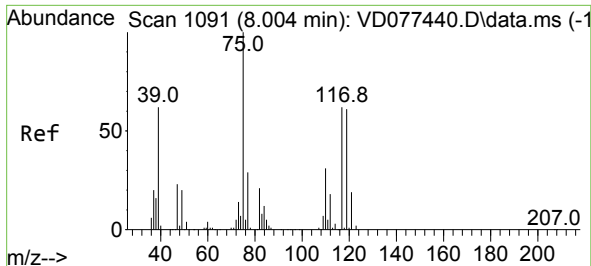
Ion Ratio Lower Upper

113 100

111 112.3 84.7 127.1

192 26.4 16.8 25.2#





#36

1,1-Dichloropropene

Concen: 2.223 ug/l

RT: 7.869 min Scan# 1091

Delta R.T. -0.135 min

Lab File: VD077846.D

Acq: 12 Dec 2023 17:02

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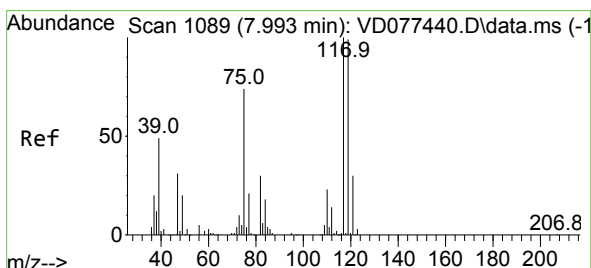
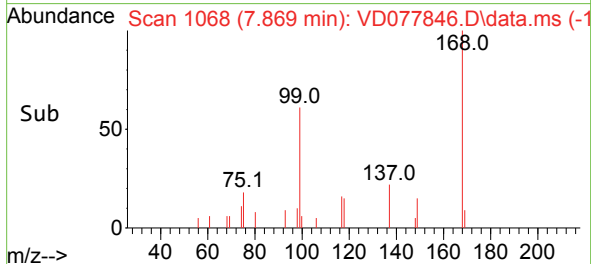
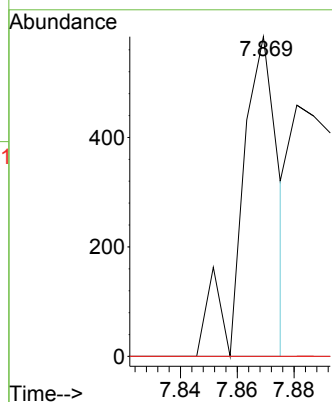
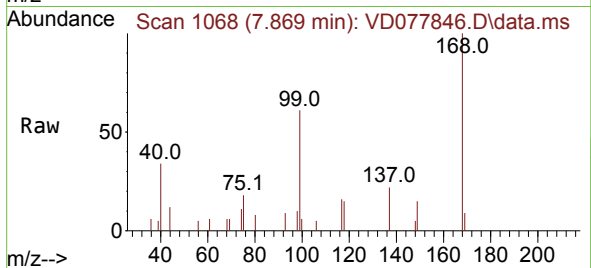
Tgt Ion: 75 Resp: 529

Ion Ratio Lower Upper

75 100

110 0.0 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 4.376 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.112 min

Lab File: VD077846.D

Acq: 12 Dec 2023 17:02

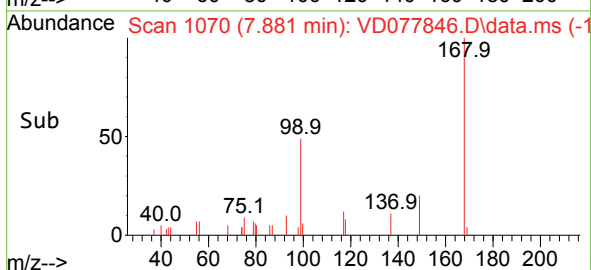
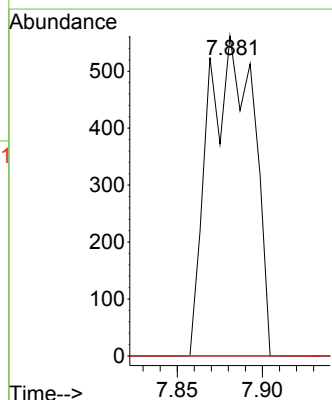
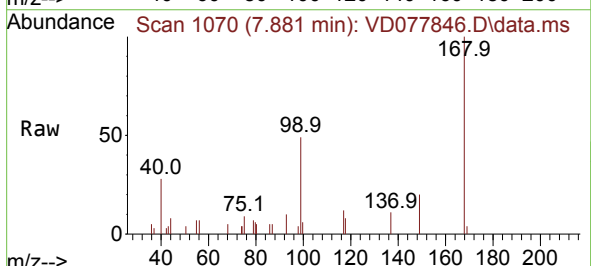
Tgt Ion: 117 Resp: 1038

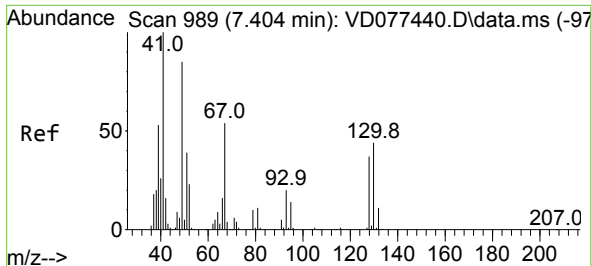
Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

121 0.0 24.2 36.2#

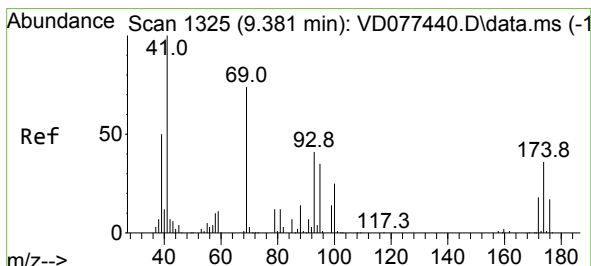
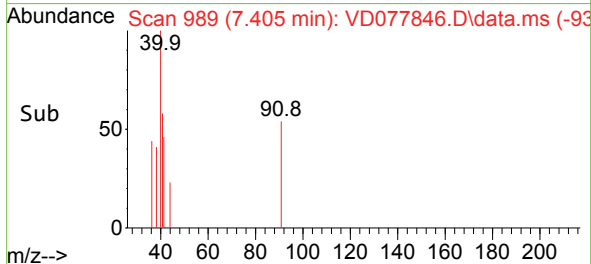
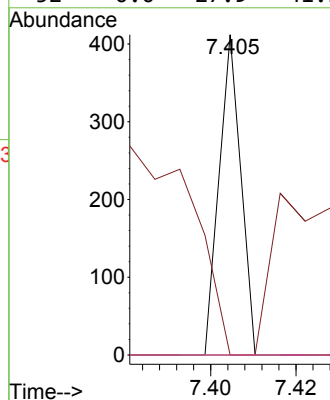
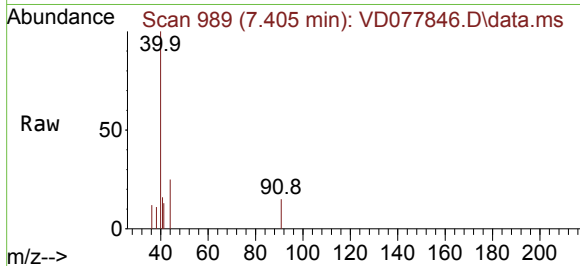




#41
Methacrylonitrile
Concen: 3.075 ug/l
RT: 7.405 min Scan# 91
Delta R.T. 0.001 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

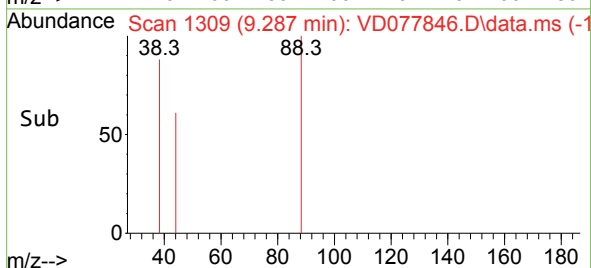
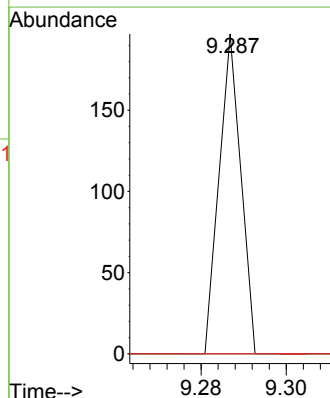
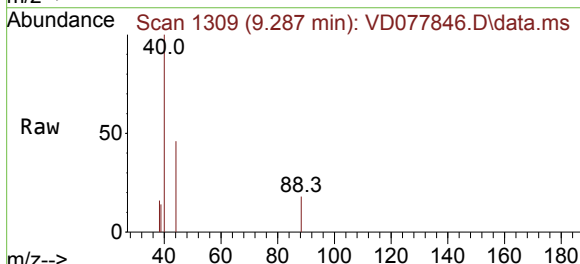
Instrument :
MSVOA_D
ClientSampleId :
SU-02-12082023

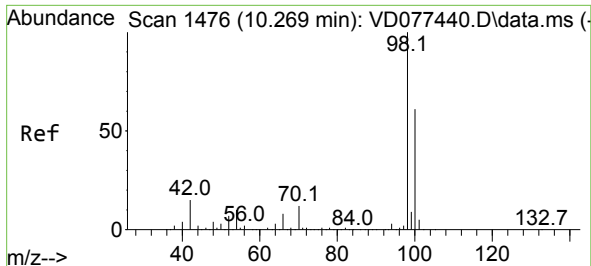
Tgt Ion: 41	Resp: 145
Ion Ratio	Lower Upper
41 100	
39 227.6	34.0 51.0#
67 0.0	77.0 115.4#
52 0.0	27.9 41.9#



#49
1,4-Dioxane
Concen: 81.158 ug/l
RT: 9.287 min Scan# 1309
Delta R.T. -0.094 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

Tgt Ion: 88	Resp: 70
Ion Ratio	Lower Upper
88 100	
43 0.0	19.0 28.6#
58 0.0	43.5 65.3#

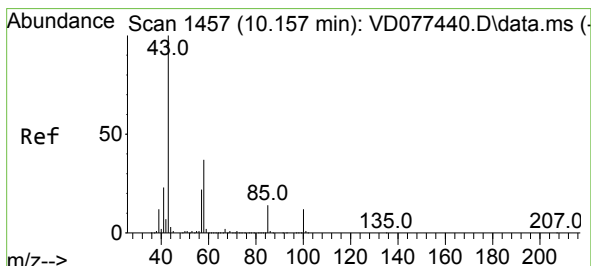
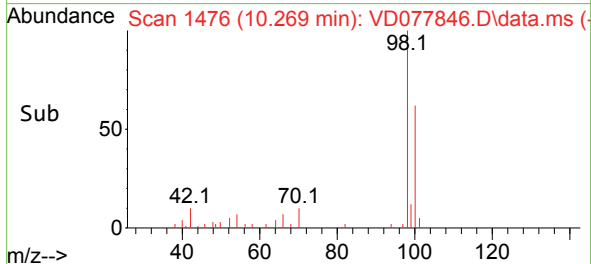
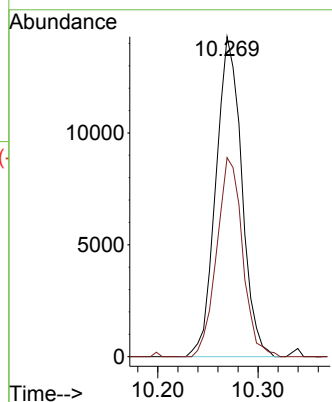
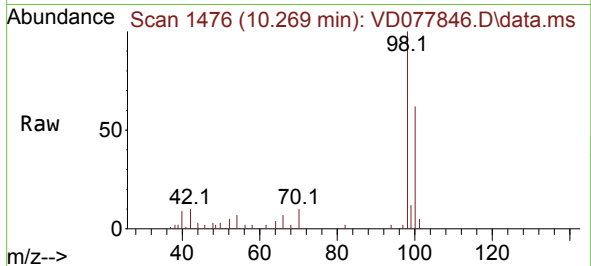




#50
Toluene-d8
Concen: 42.956 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

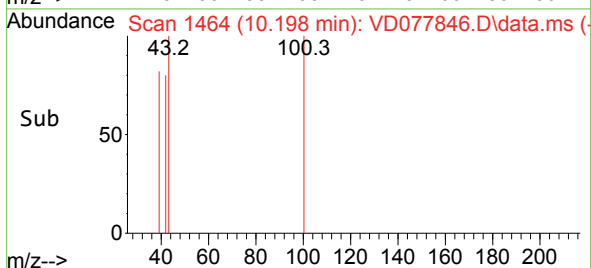
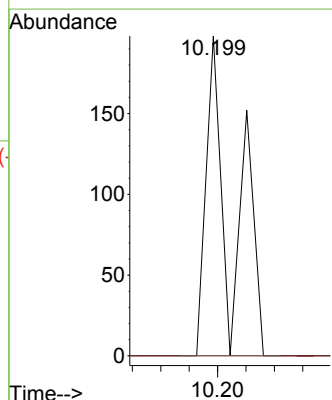
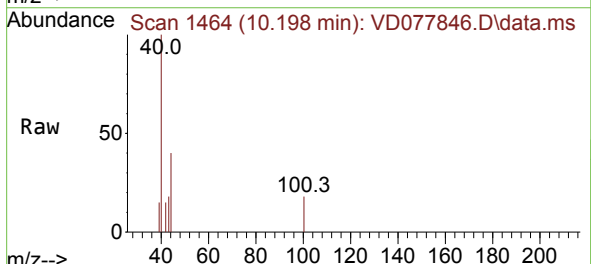
Instrument :
MSVOA_D
ClientSampleId :
SU-02-12082023

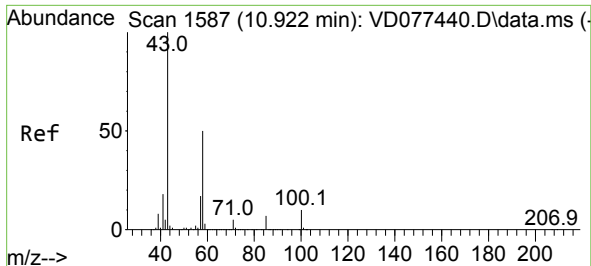
Tgt Ion: 98 Resp: 25592
Ion Ratio Lower Upper
98 100
100 62.1 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 1.461 ug/l
RT: 10.198 min Scan# 1464
Delta R.T. 0.041 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

Tgt Ion: 43 Resp: 123
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#

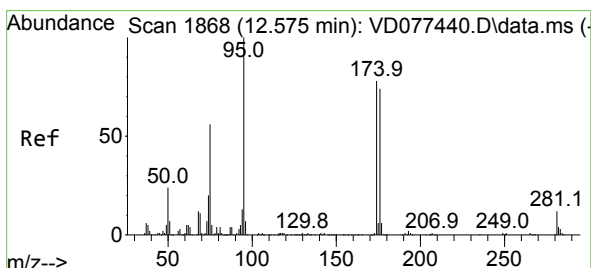
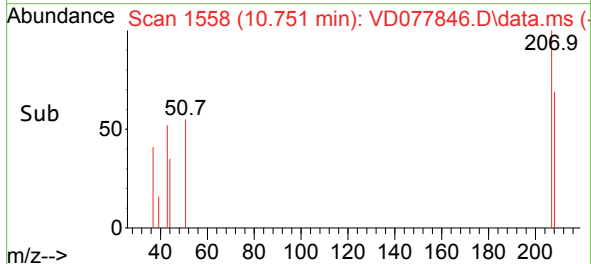
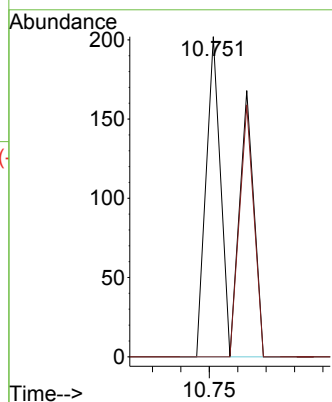
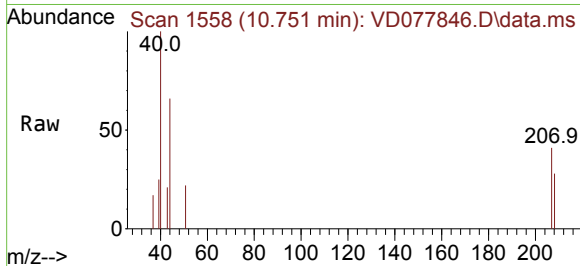




#59
2-Hexanone
Concen: 1.876 ug/l
RT: 10.751 min Scan# 1558
Delta R.T. -0.171 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

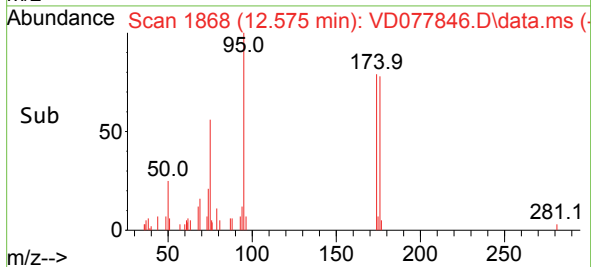
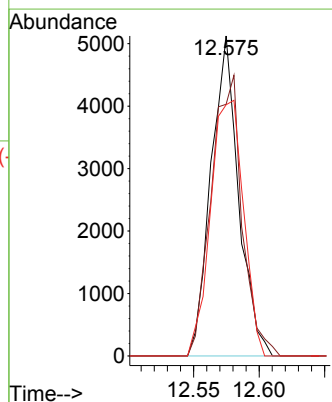
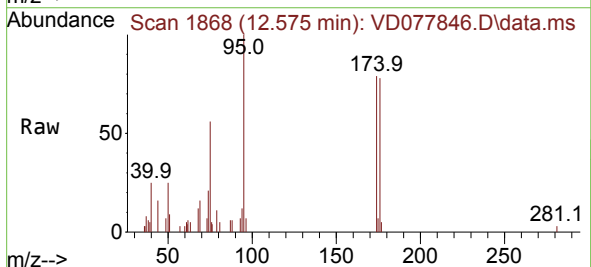
Instrument :
MSVOA_D
ClientSampleId :
SU-02-12082023

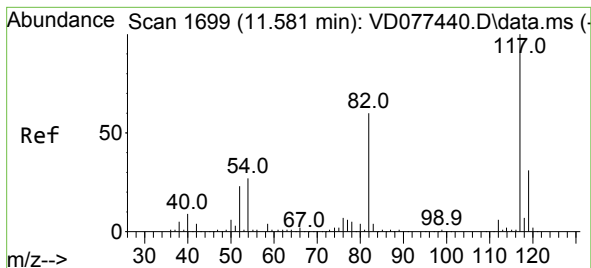
Tgt Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
58 42.7 34.1 102.2



#62
4-Bromofluorobenzene
Concen: 42.129 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

Tgt Ion: 95 Resp: 7504
Ion Ratio Lower Upper
95 100
174 98.1 0.0 201.8
176 95.3 0.0 191.8

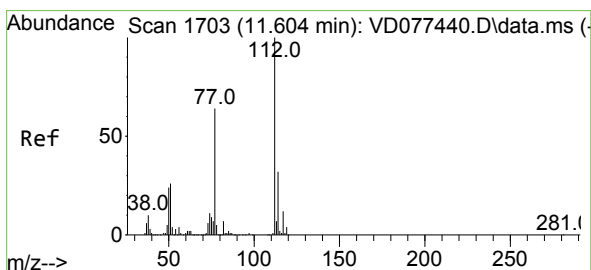
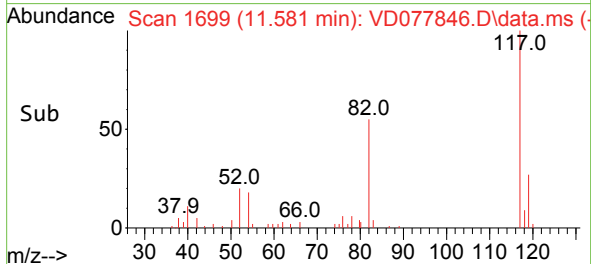
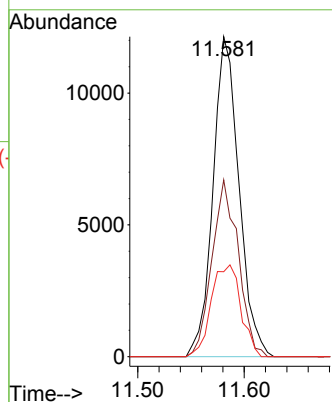
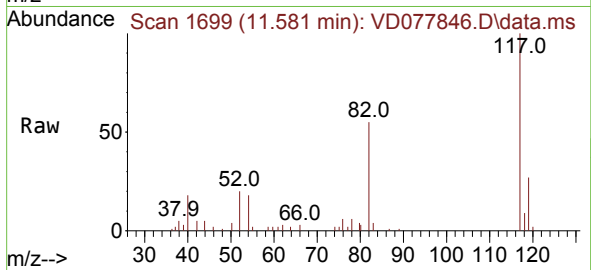




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

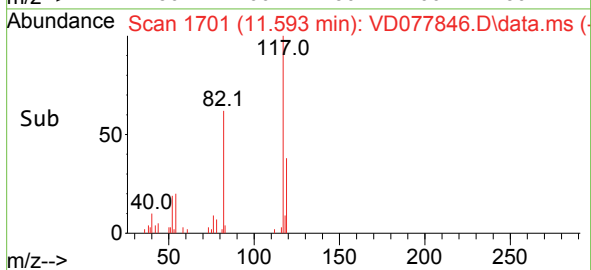
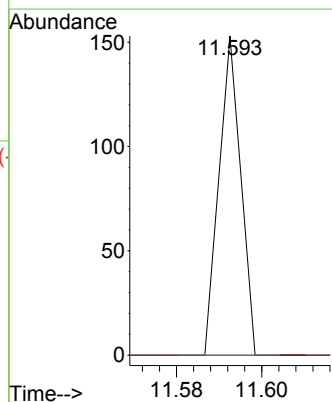
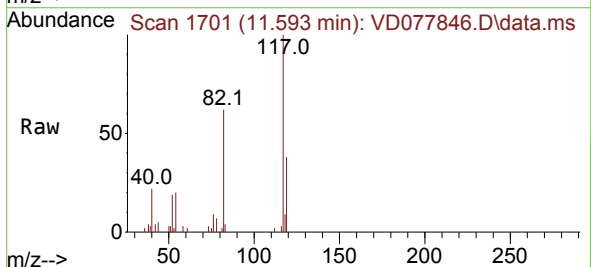
Instrument :
MSVOA_D
ClientSampleId :
SU-02-12082023

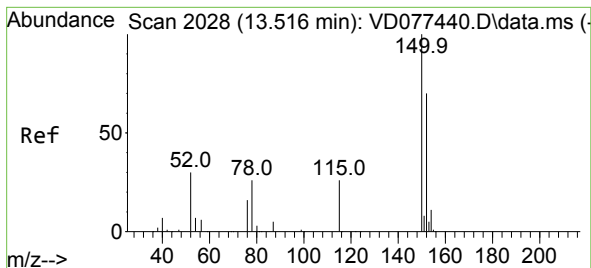
Tgt Ion:117	Resp:	20566
Ion Ratio	Lower	Upper
117	100	
82	55.2	38.3 57.5
119	26.6	25.0 37.4



#65
Chlorobenzene
Concen: Below Cal
RT: 11.593 min Scan# 1701
Delta R.T. -0.011 min
Lab File: VD077846.D
Acq: 12 Dec 2023 17:02

Tgt Ion:112	Resp:	54
Ion Ratio	Lower	Upper
112	100	
114	0.0	25.1 37.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.522 min Scan# 2028

Delta R.T. 0.006 min

Lab File: VD077846.D

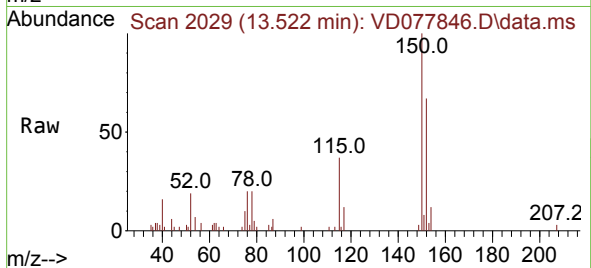
Acq: 12 Dec 2023 17:02

Instrument :

MSVOA_D

ClientSampleId :

SU-02-12082023



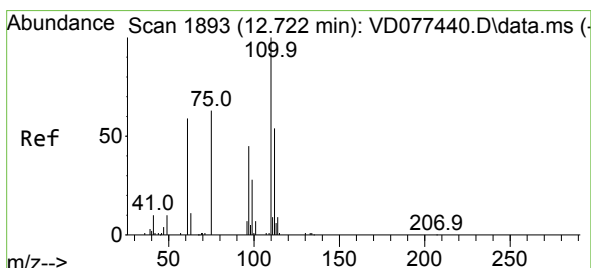
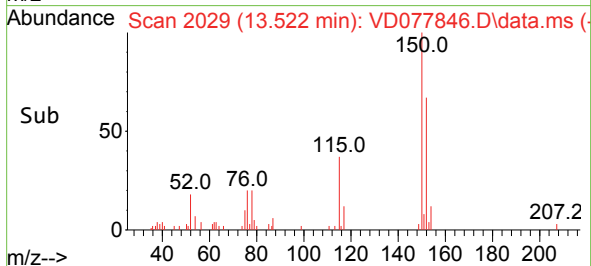
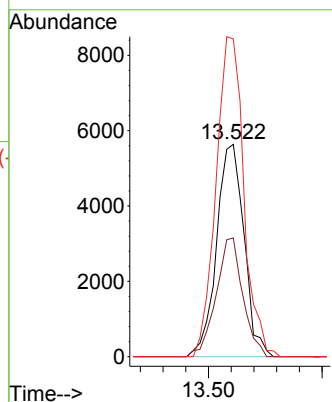
Tgt Ion:152 Resp: 9455

Ion Ratio Lower Upper

152 100

115 54.5 27.1 81.3

150 152.6 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 54.824 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.147 min

Lab File: VD077846.D

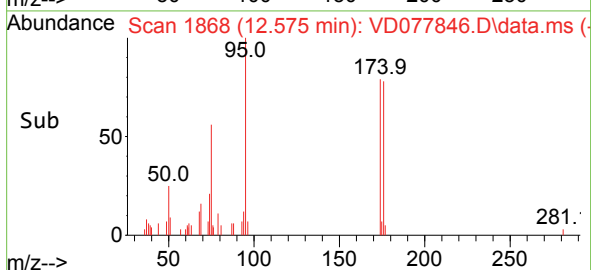
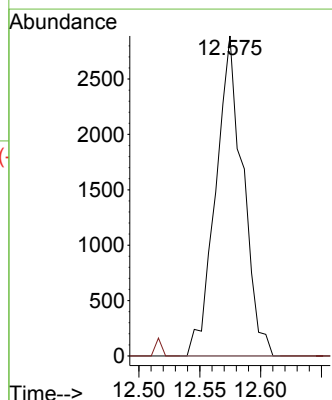
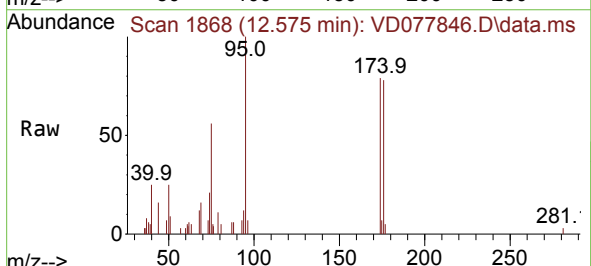
Acq: 12 Dec 2023 17:02

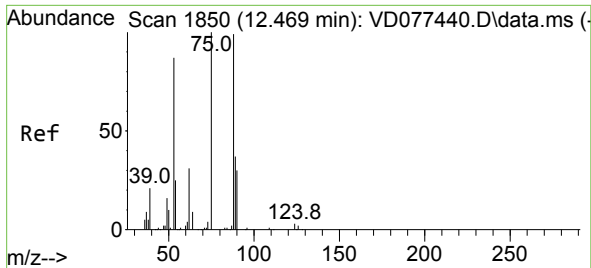
Tgt Ion: 75 Resp: 4502

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.077 ug/l
 RT: 12.575 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VD077846.D
 Acq: 12 Dec 2023 17:02

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-02-12082023

Tgt Ion: 75 Resp: 4502
 Ion Ratio Lower Upper
 75 100
 53 0.0 63.0 94.4#
 89 0.0 37.9 56.9#

