

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062522\
 Data File : VD073715.D
 Acq On : 25 Jun 2022 17:58
 Operator : VA/SY
 Sample : N3455-11
 Misc : 4.84G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-EXC-2-2

Quant Time: Jun 27 09:40:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D062322S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 24 07:36:47 2022
 Response via : Initial Calibration

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

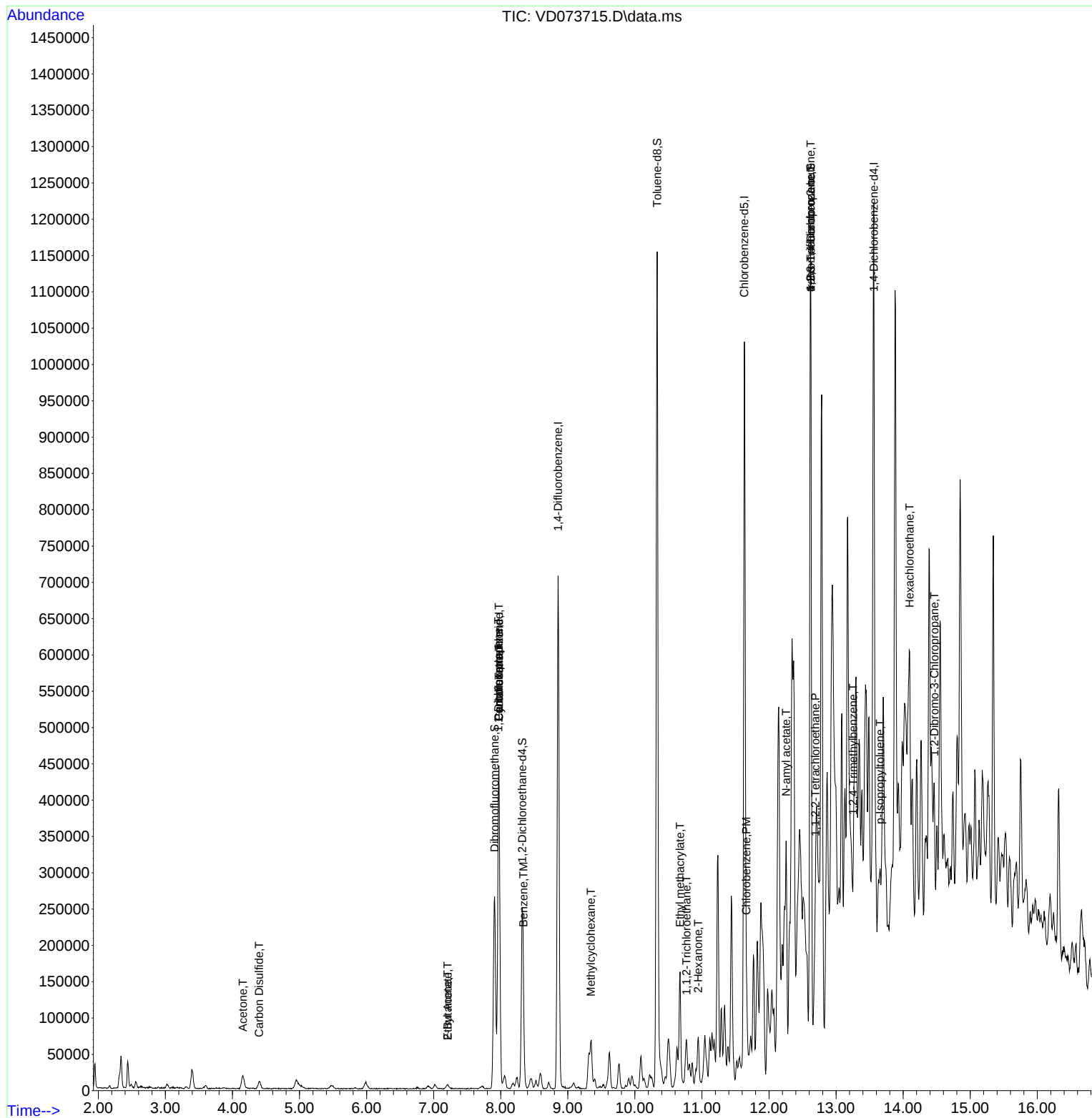
Internal Standards						
1) Pentafluorobenzene	7.973	168	321840	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	607849	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	586068	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	277639	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	194041	49.088	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.180%
35) Dibromofluoromethane	7.909	113	196747	41.550	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	83.100%
50) Toluene-d8	10.332	98	747431	43.962	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	87.920%
62) 4-Bromofluorobenzene	12.620	95	283382	44.440	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	88.880%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.985	85	59	Below Cal	#	44
3) Chloromethane	2.209	50	433	Below Cal	#	40
5) Bromomethane	2.779	94	833	Below Cal	#	62
11) Tert butyl alcohol	5.226	59	476	Below Cal	#	100
16) Acetone	4.156	43	31227	42.871	ug/l	93
17) Carbon Disulfide	4.397	76	22172	2.657	ug/l	# 89
18) Methyl Acetate	4.691	43	77	Below Cal	#	50
20) Methylene Chloride	4.956	84	7970	Below Cal	#	78
25) 2-Butanone	7.209	43	8511	8.544	ug/l	93
31) Cyclohexane	7.973	56	12928	2.180	ug/l	# 33
36) 1,1-Dichloropropene	7.967	75	24582	3.698	ug/l	# 50
37) Ethyl Acetate	7.209	43	8511	3.262	ug/l	# 68
38) Carbon Tetrachloride	7.973	117	32899	4.251	ug/l	# 16
39) Methylcyclohexane	9.344	83	28361	3.843	ug/l	94
40) Benzene	8.338	78	23517	1.222	ug/l	97
55) 1,1,2-Trichloroethane	10.767	97	22801	5.776	ug/l	# 21
56) Ethyl methacrylate	10.673	69	14778	3.321	ug/l	# 18
59) 2-Hexanone	10.944	43	25625	14.428	ug/l	# 27
65) Chlorobenzene	11.661	112	38225	2.665	ug/l	99
74) N-amyl acetate	12.255	43	66760	14.391	ug/l	# 41
75) 1,1,2,2-Tetrachloroethane	12.691	83	18840	4.405	ug/l	# 26
76) 1,2,3-Trichloropropane	12.620	75	136920	50.676	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.620	75	136920	103.459	ug/l	# 13
84) 1,2,4-Trimethylbenzene	13.255	105	21040	1.102	ug/l	86
86) p-Isopropyltoluene	13.655	119	27790	1.328	ug/l	89
90) Hexachloroethane	14.096	117	7027	1.630	ug/l	# 16
92) 1,2-Dibromo-3-Chloropr...	14.467	75	877	1.228	ug/l	# 4

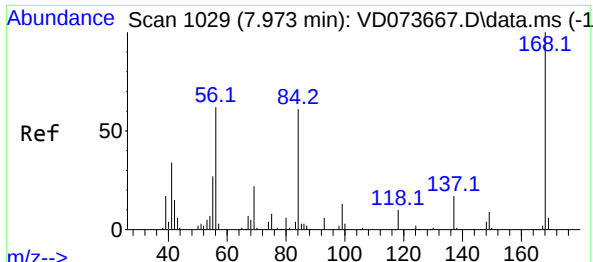
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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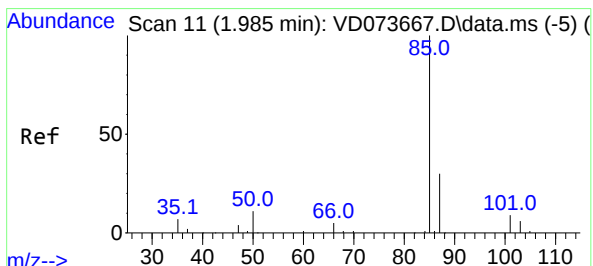
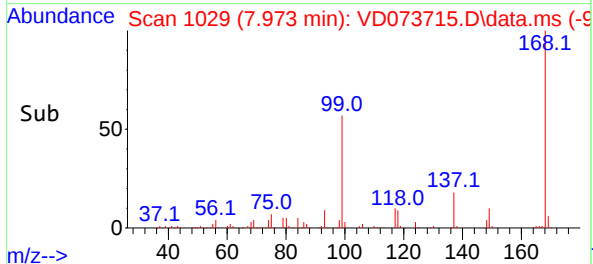
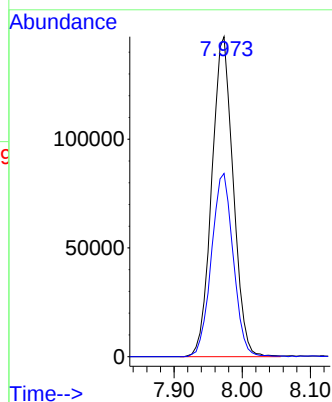
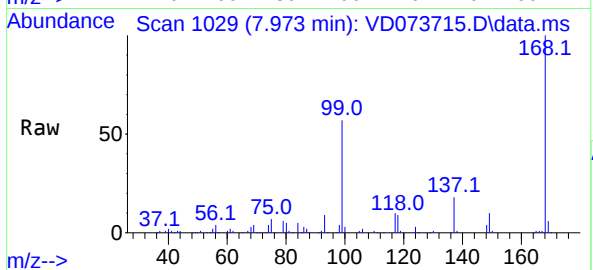




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

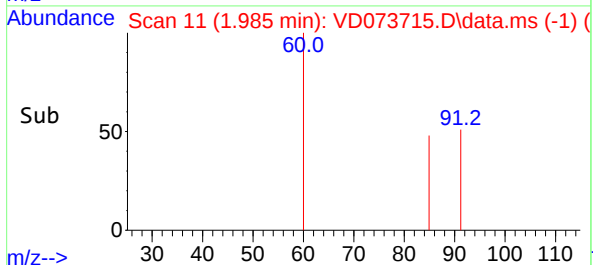
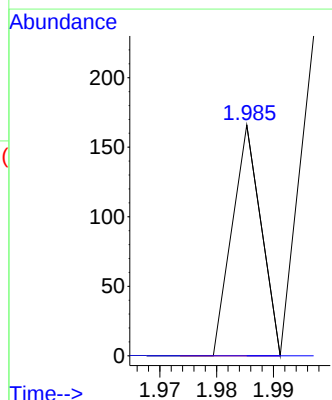
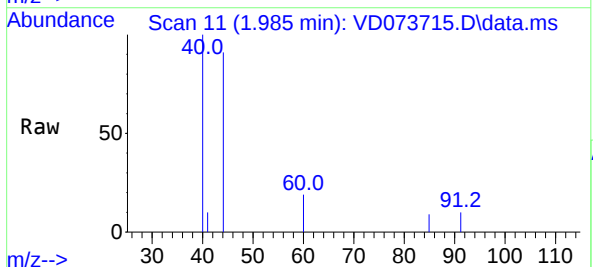
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

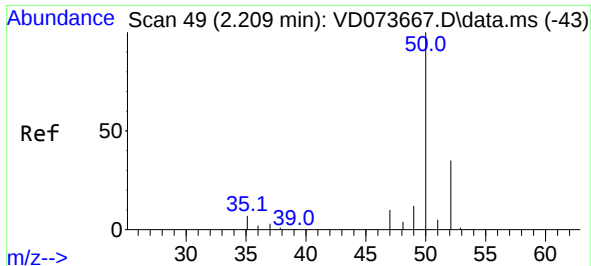
Tgt Ion:168 Resp: 321840
Ion Ratio Lower Upper
168 100
99 57.3 46.4 69.6



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.985 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 85 Resp: 59
Ion Ratio Lower Upper
85 100
87 0.0 15.2 45.5#

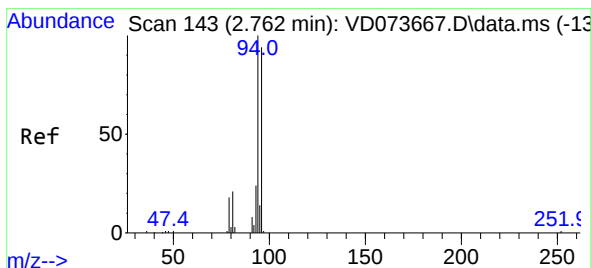
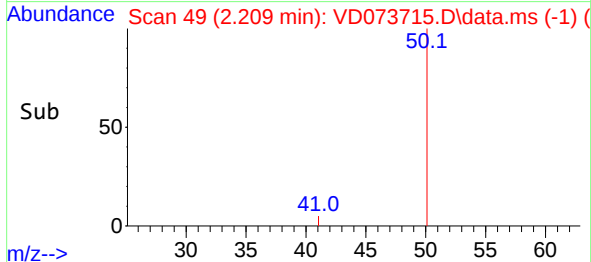
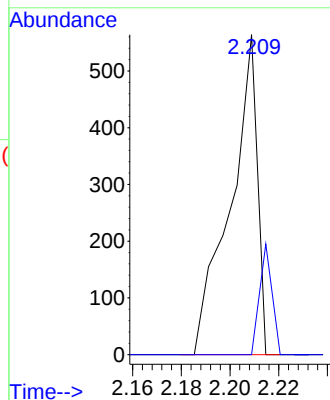
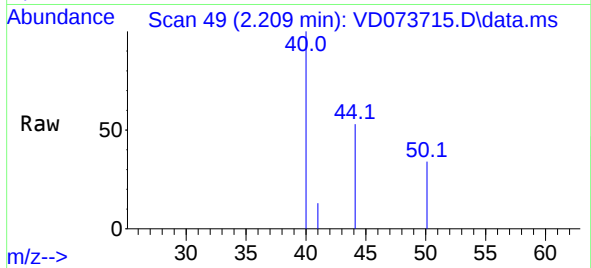




#3
Chloromethane
Concen: Below Cal
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

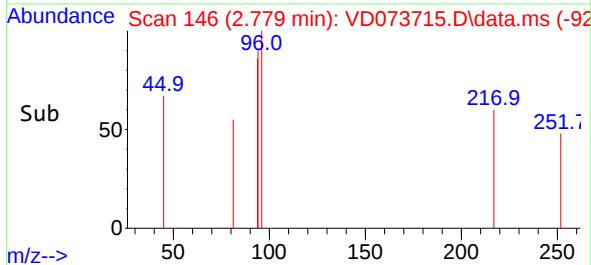
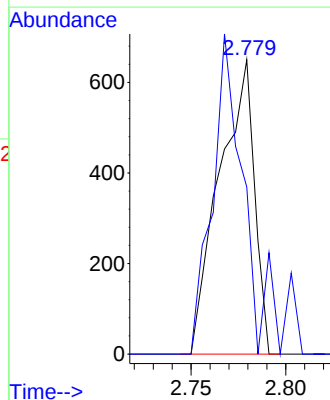
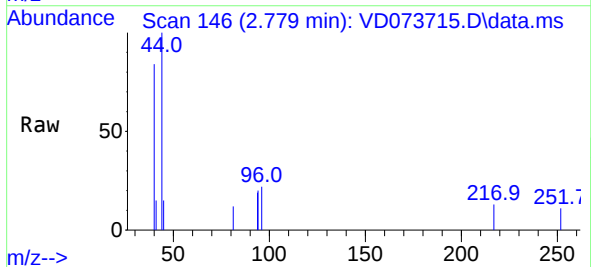
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

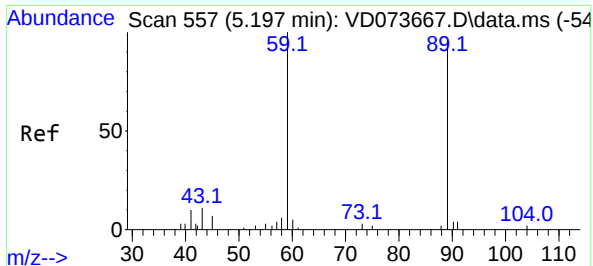
Tgt Ion: 50 Resp: 433
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.6#



#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 146
Delta R.T. 0.017 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 94 Resp: 833
Ion Ratio Lower Upper
94 100
96 56.8 75.1 112.7#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.226 min Scan# 5

Delta R.T. 0.029 min

Lab File: VD073715.D

Acq: 25 Jun 2022 17:58

Instrument :

MSVOA_D

ClientSampleId :

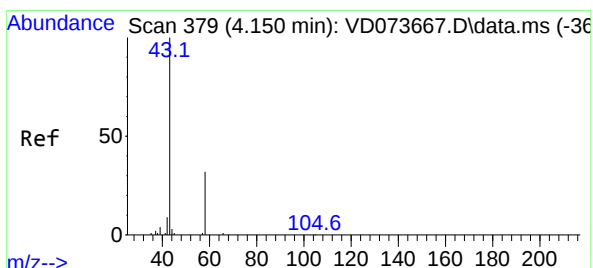
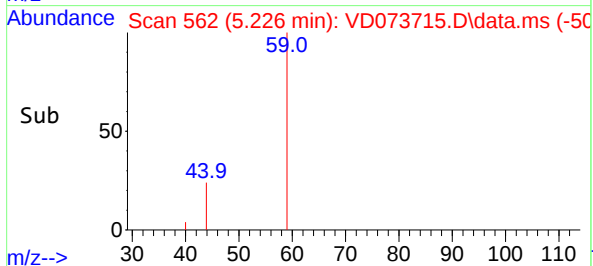
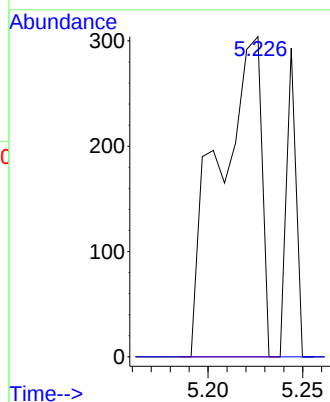
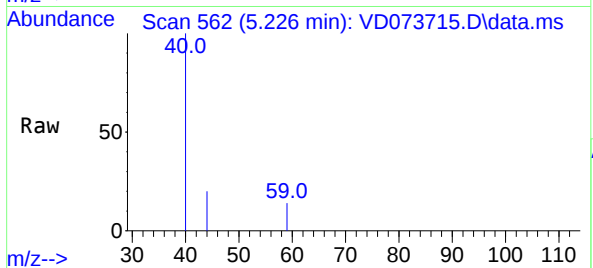
SP-EXC-2-2

Tgt Ion: 59 Resp: 476

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0



#16

Acetone

Concen: 42.871 ug/l

RT: 4.156 min Scan# 380

Delta R.T. 0.006 min

Lab File: VD073715.D

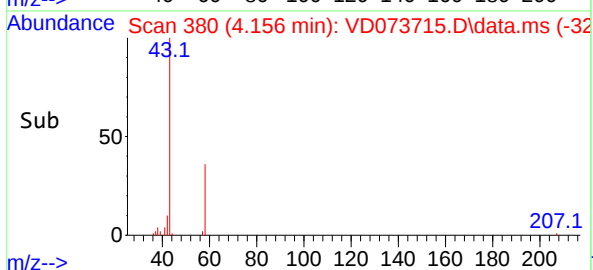
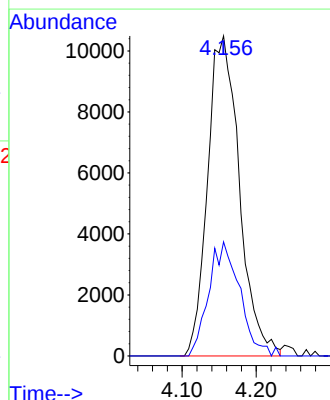
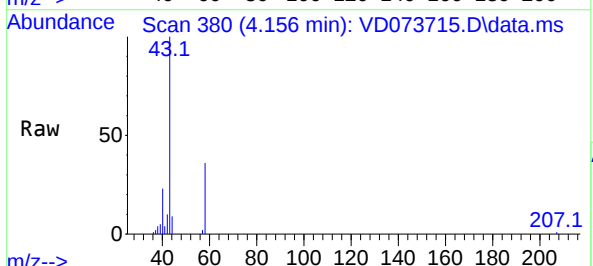
Acq: 25 Jun 2022 17:58

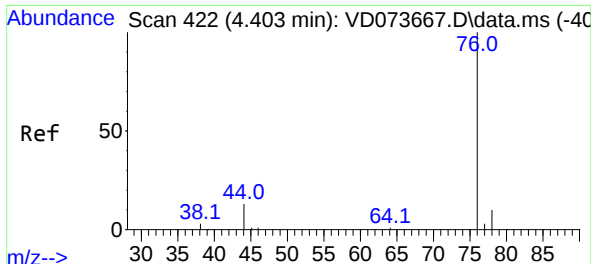
Tgt Ion: 43 Resp: 31227

Ion Ratio Lower Upper

43 100

58 35.6 25.2 37.8

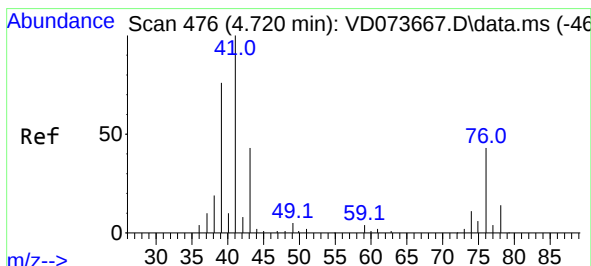
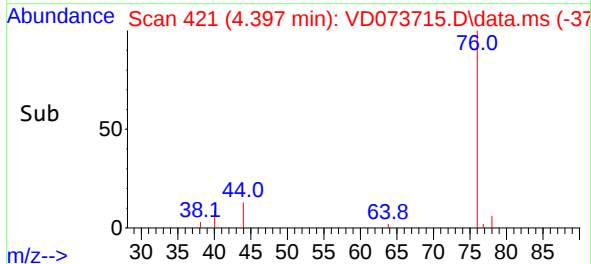
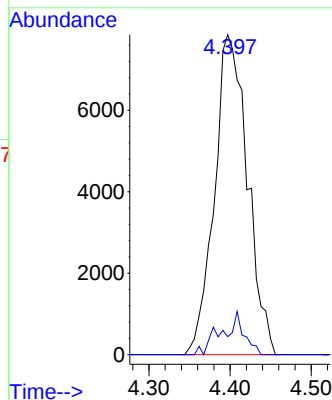
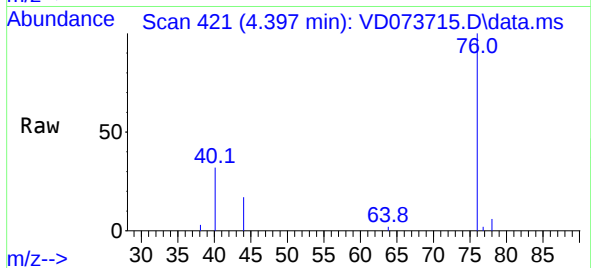




#17
Carbon Disulfide
Concen: 2.657 ug/l
RT: 4.397 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

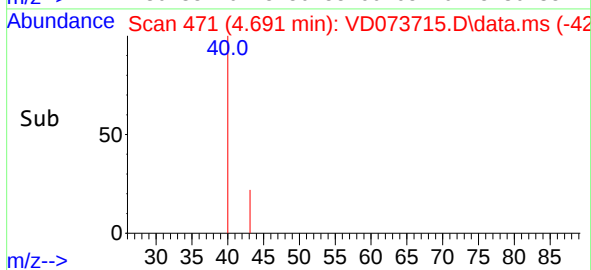
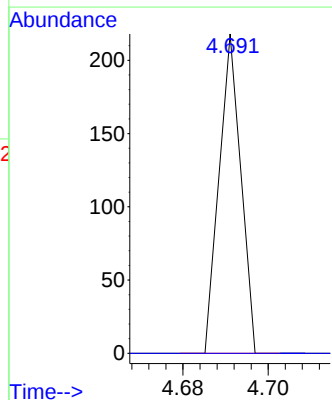
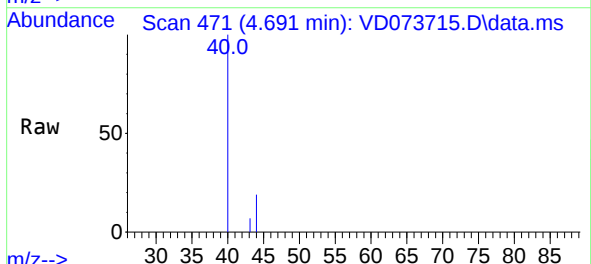
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

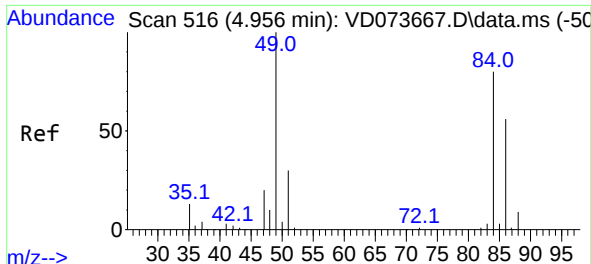
Tgt Ion: 76 Resp: 22172
Ion Ratio Lower Upper
76 100
78 5.7 7.7 11.5#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.691 min Scan# 471
Delta R.T. -0.029 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 43 Resp: 77
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.4#

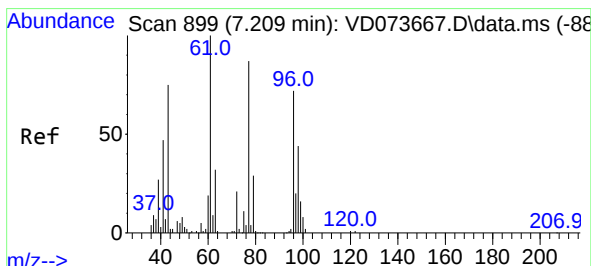
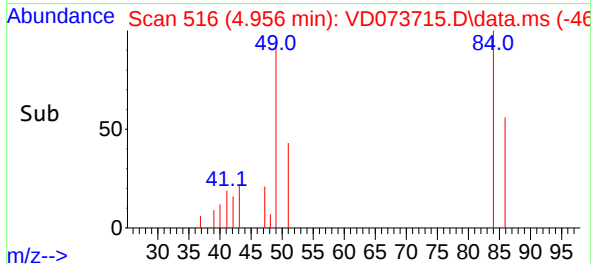
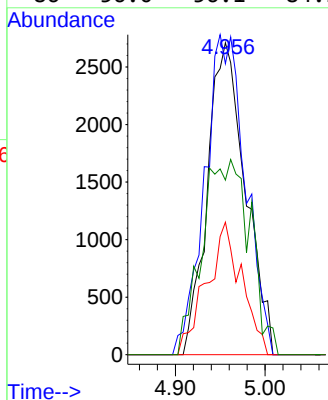
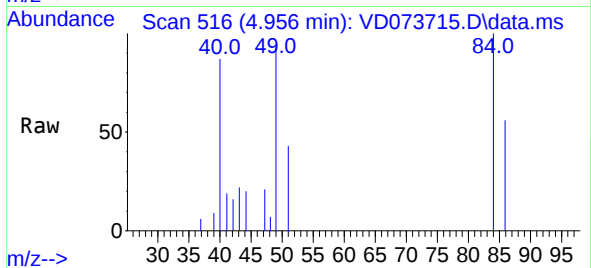




#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 516
Delta R.T. -0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

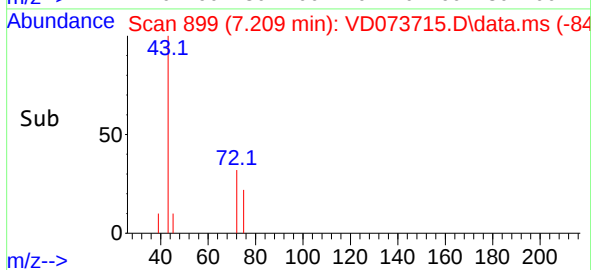
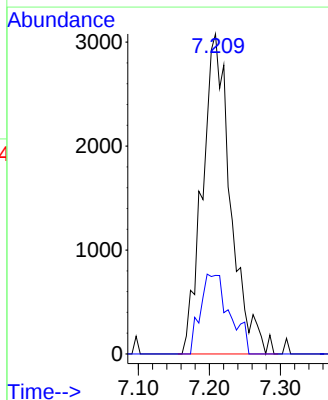
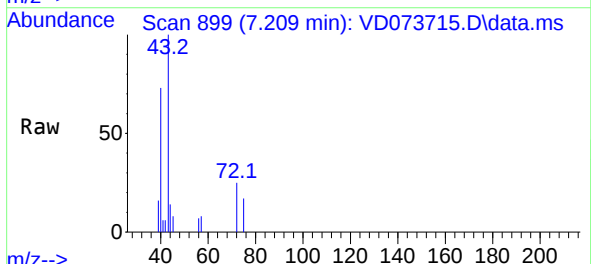
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

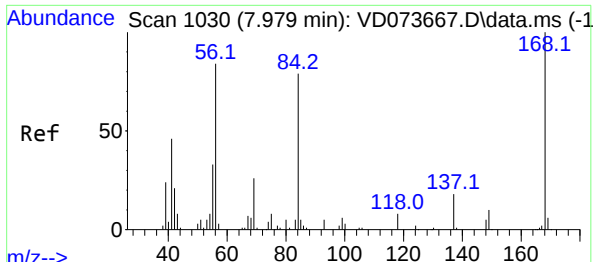
Tgt Ion: 84	Resp: 7970
Ion Ratio	Lower Upper
84 100	
49 93.4	100.6 150.8#
51 42.5	29.8 44.6
86 56.0	56.1 84.1#



#25
2-Butanone
Concen: 8.544 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 43	Resp:	8511	
Ion	Ratio	Lower	Upper
43	100		
72	24.6	22.6	33.8





#31

Cyclohexane

Concen: 2.180 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD073715.D

Acq: 25 Jun 2022 17:58

Instrument :

MSVOA_D

ClientSampleId :

SP-EXC-2-2

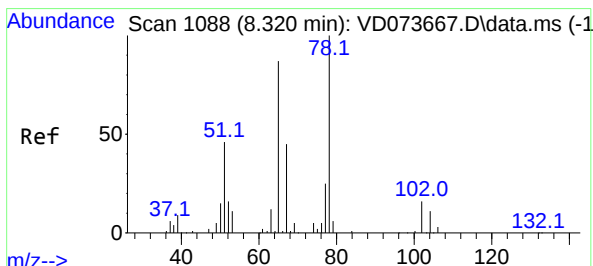
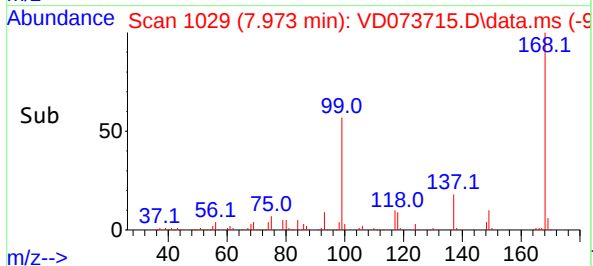
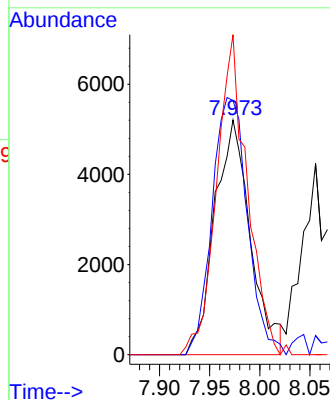
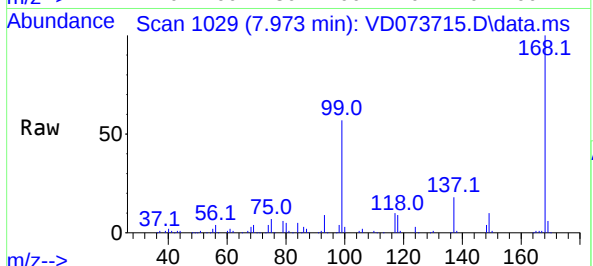
Tgt Ion: 56 Resp: 12928

Ion Ratio Lower Upper

56 100

69 108.3 25.2 37.8#

84 136.3 75.4 113.2#



#33

1,2-Dichloroethane-d4

Concen: 49.088 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD073715.D

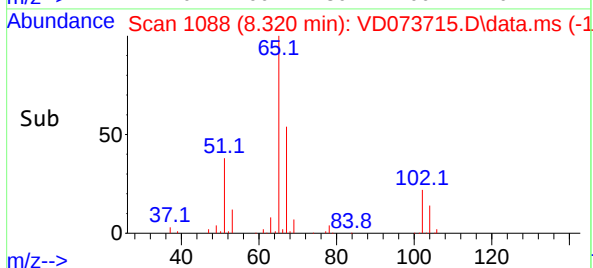
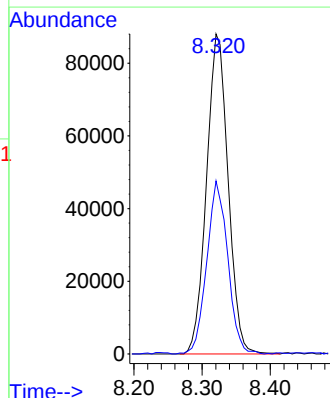
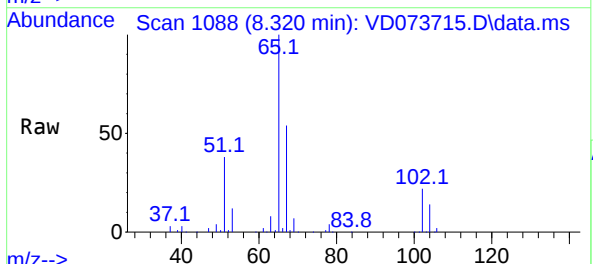
Acq: 25 Jun 2022 17:58

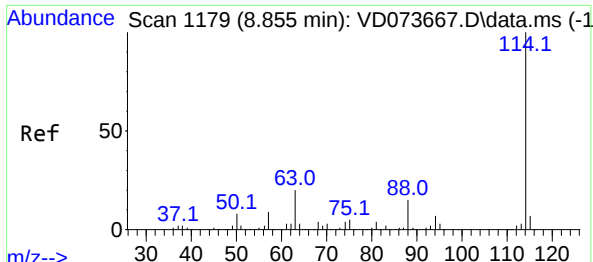
Tgt Ion: 65 Resp: 194041

Ion Ratio Lower Upper

65 100

67 52.4 0.0 107.2



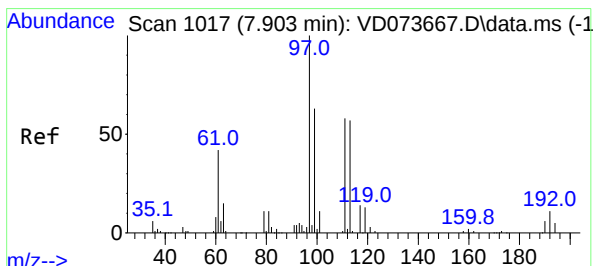
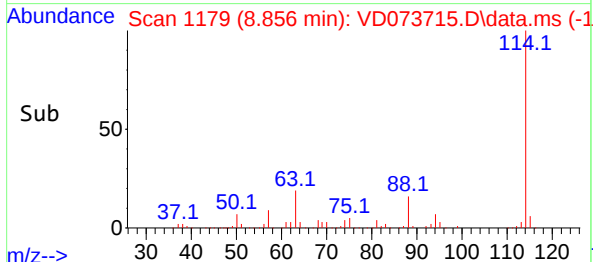
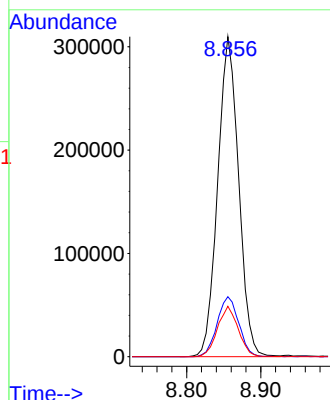
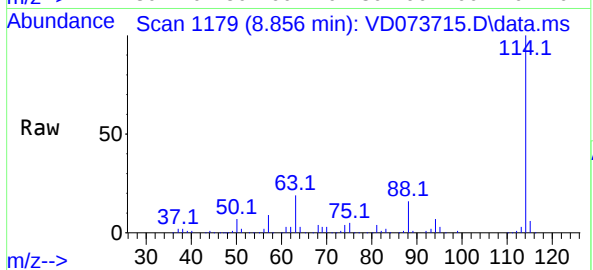


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.856 min Scan# 1179
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

Tgt Ion:114 Resp: 607849

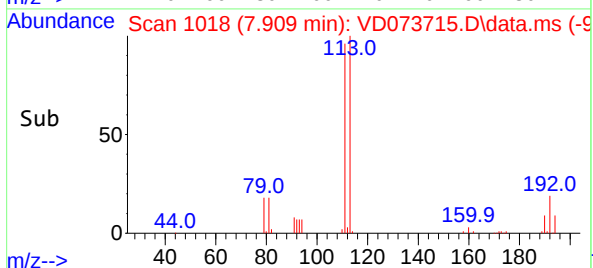
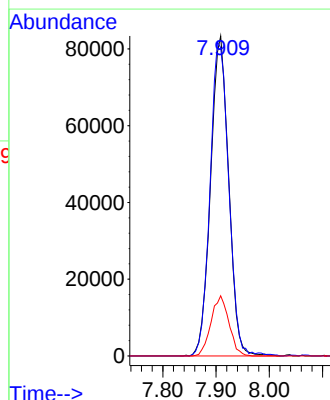
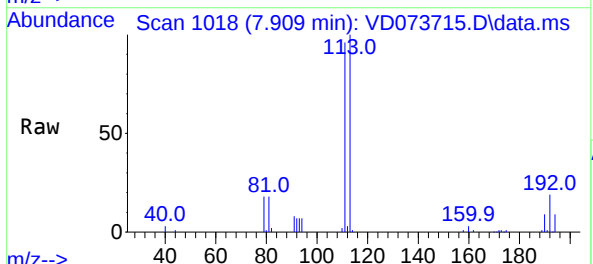
Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.2
88	15.7	0.0	29.4

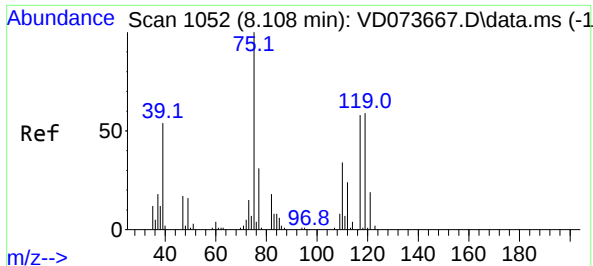


#35
Dibromofluoromethane
Concen: 41.550 ug/l
RT: 7.909 min Scan# 1018
Delta R.T. 0.006 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion:113 Resp: 196747

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.6
192	18.6	14.8	22.2





#36

1,1-Dichloropropene

Concen: 3.698 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.141 min

Lab File: VD073715.D

Acq: 25 Jun 2022 17:58

Instrument :

MSVOA_D

ClientSampleId :

SP-EXC-2-2

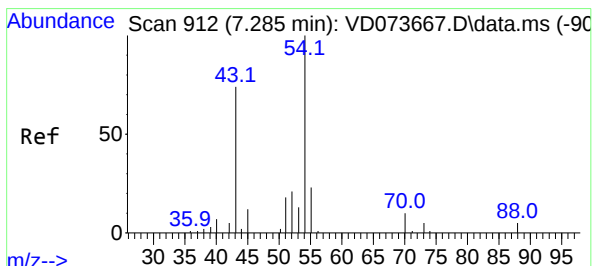
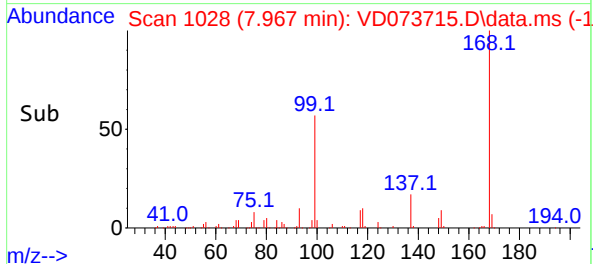
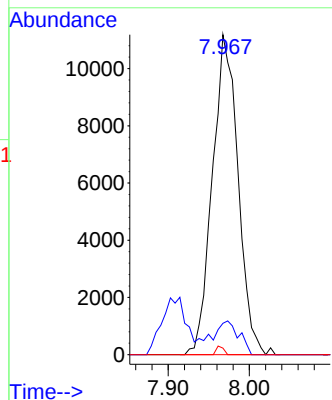
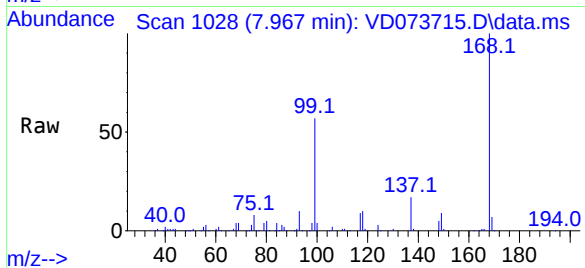
Tgt Ion: 75 Resp: 24582

Ion Ratio Lower Upper

75 100

110 10.2 18.0 54.0#

77 0.8 25.6 38.4#



#37

Ethyl Acetate

Concen: 3.262 ug/l

RT: 7.209 min Scan# 899

Delta R.T. -0.076 min

Lab File: VD073715.D

Acq: 25 Jun 2022 17:58

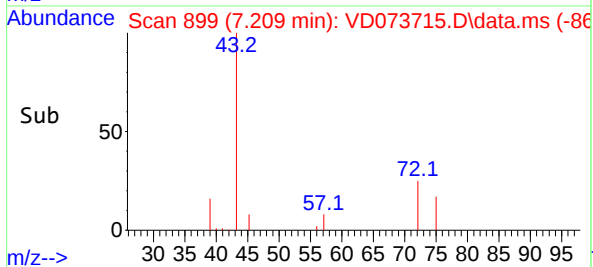
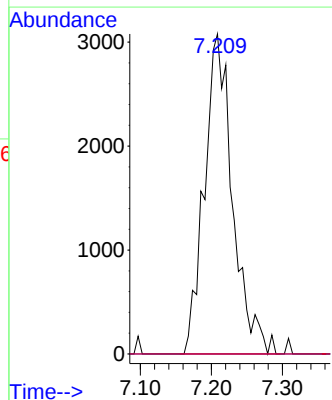
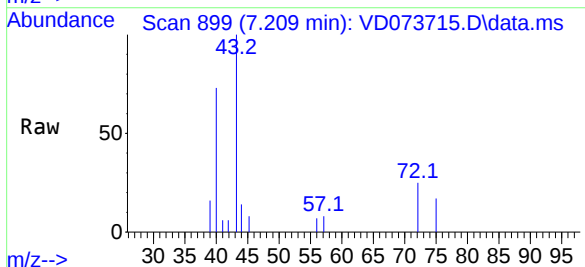
Tgt Ion: 43 Resp: 8511

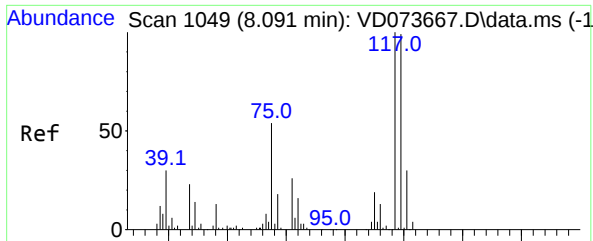
Ion Ratio Lower Upper

43 100

61 0.0 10.6 16.0#

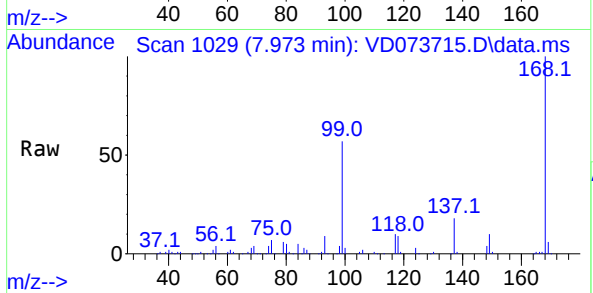
70 0.0 9.9 14.9#



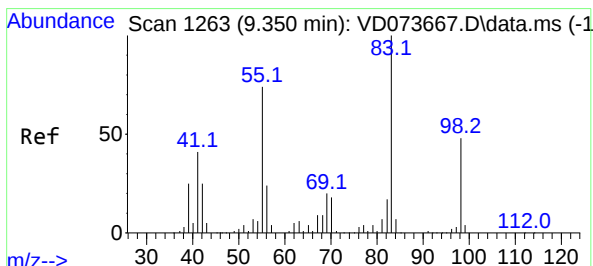
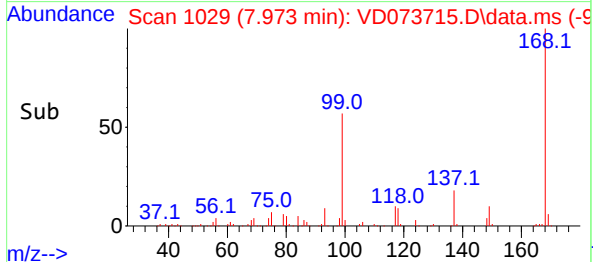
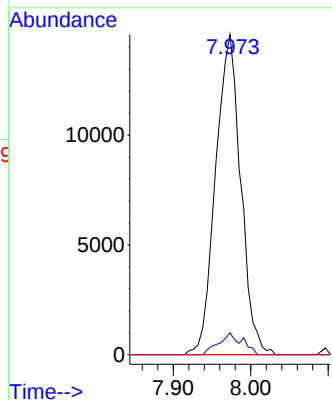


#38
Carbon Tetrachloride
Concen: 4.251 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

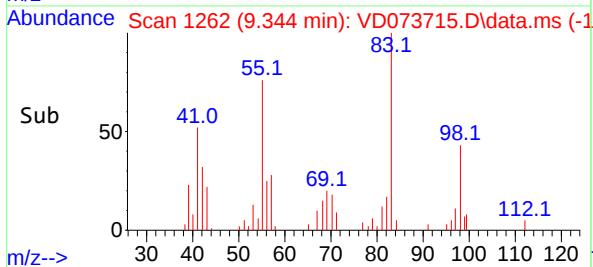
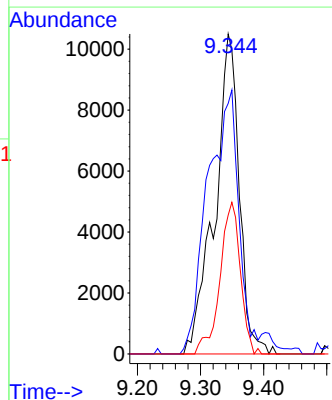
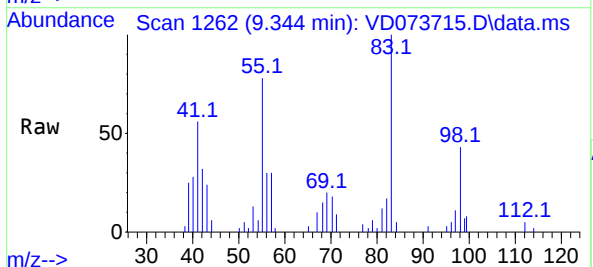


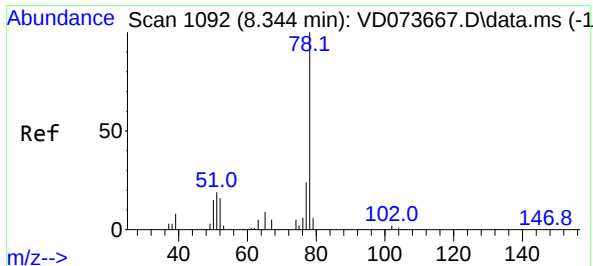
Tgt Ion:117 Resp: 32899
Ion Ratio Lower Upper
117 100
119 6.9 79.2 118.8#
121 0.0 23.8 35.8#



#39
Methylcyclohexane
Concen: 3.843 ug/l
RT: 9.344 min Scan# 1262
Delta R.T. -0.006 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 83 Resp: 28361
Ion Ratio Lower Upper
83 100
55 78.3 59.0 88.4
98 43.4 38.3 57.5

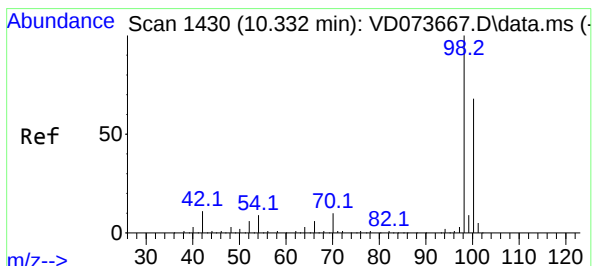
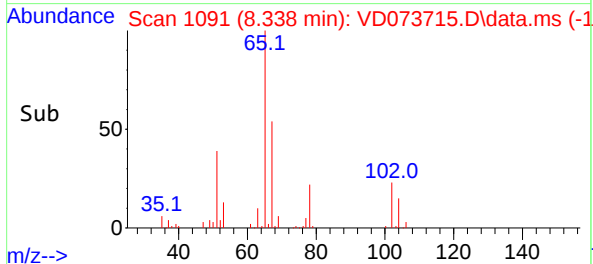
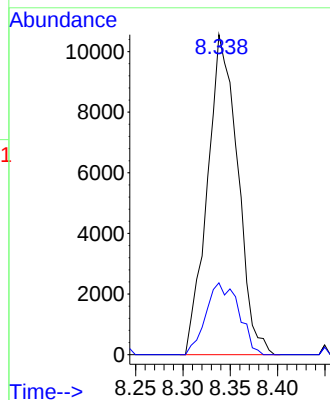
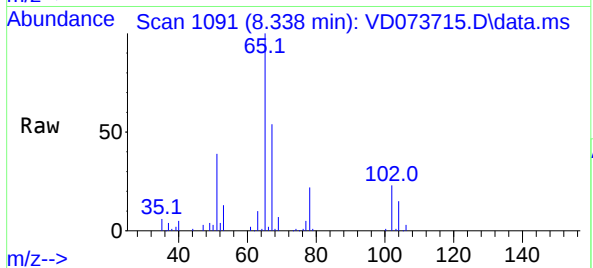




#40
Benzene
Concen: 1.222 ug/l
RT: 8.338 min Scan# 1091
Delta R.T. -0.006 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

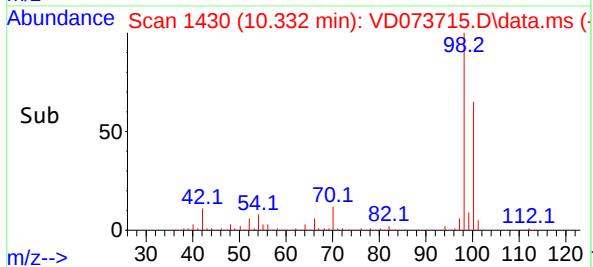
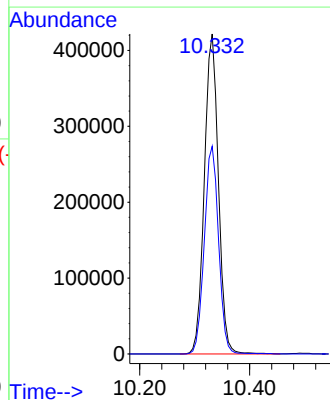
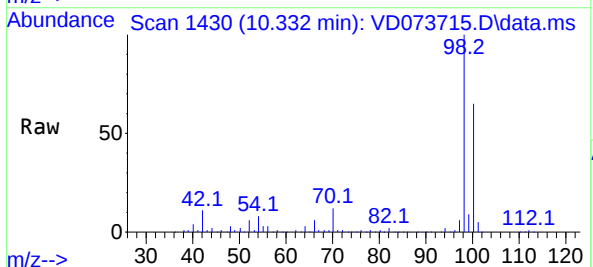
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

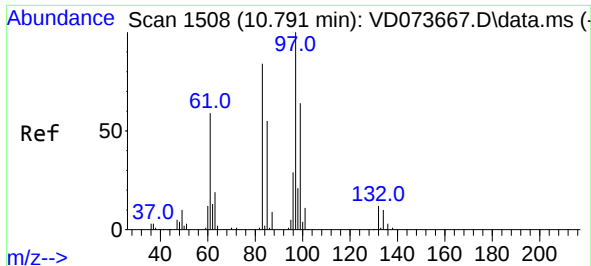
Tgt Ion: 78 Resp: 23517
Ion Ratio Lower Upper
78 100
77 22.4 19.0 28.4



#50
Toluene-d8
Concen: 43.962 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 98 Resp: 747431
Ion Ratio Lower Upper
98 100
100 65.9 54.0 81.0

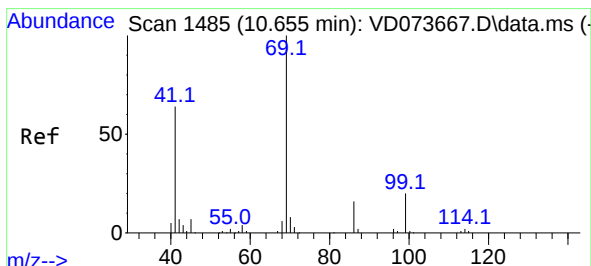
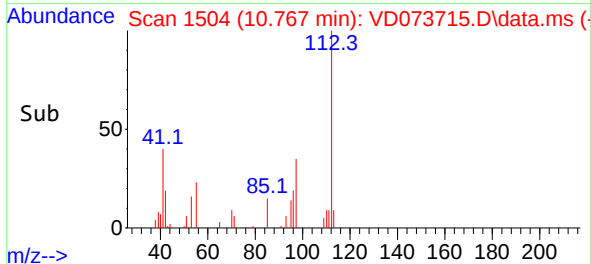
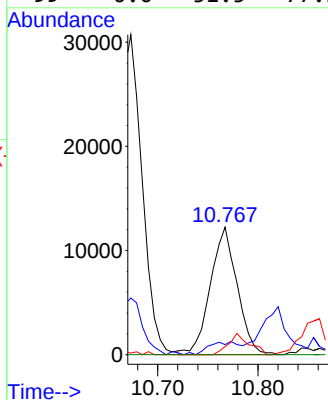
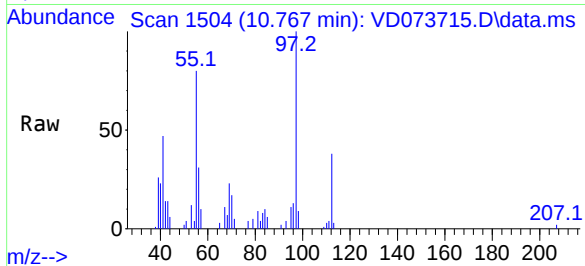




#55
1,1,2-Trichloroethane
Concen: 5.776 ug/l
RT: 10.767 min Scan# 11
Delta R.T. -0.023 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

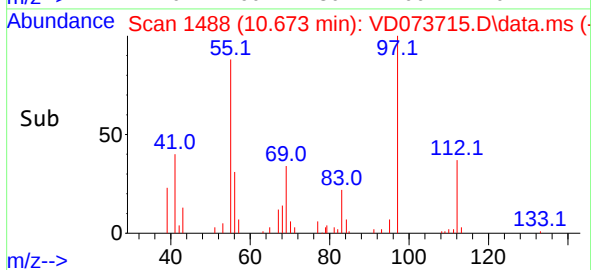
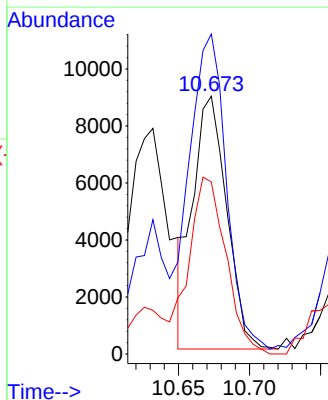
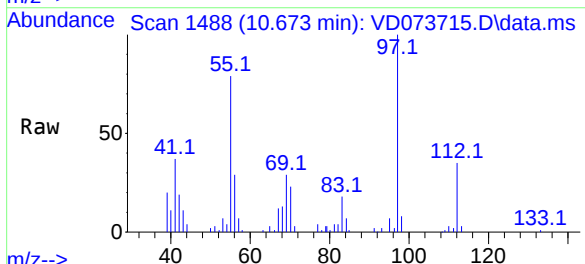
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

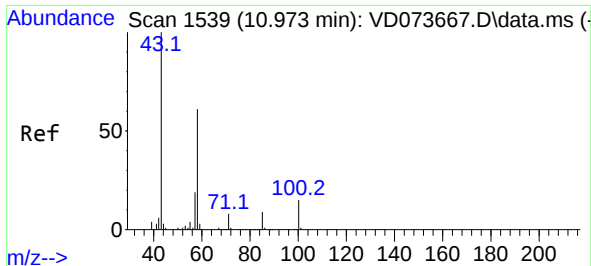
Tgt Ion:	97	Resp:	22801
Ion	Ratio	Lower	Upper
97	100		
83	6.4	67.1	100.7#
85	6.4	44.0	66.0#
99	0.0	51.5	77.3#



#56
Ethyl methacrylate
Concen: 3.321 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion:	69	Resp:	14778
Ion	Ratio	Lower	Upper
69	100		
41	135.8	51.6	77.4#
39	75.8	29.2	43.8#

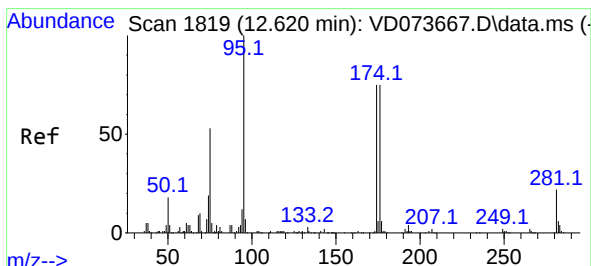
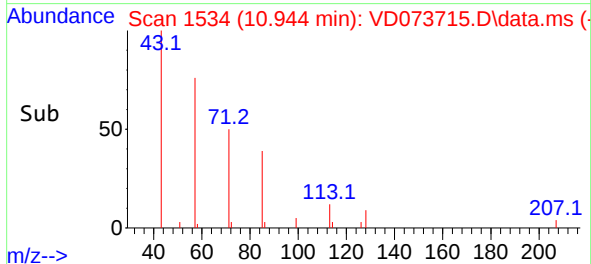
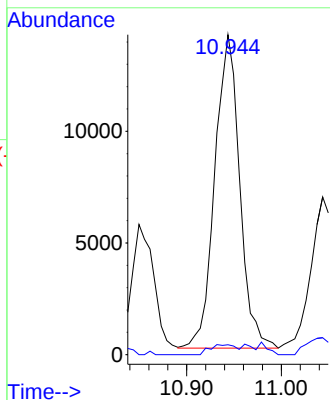
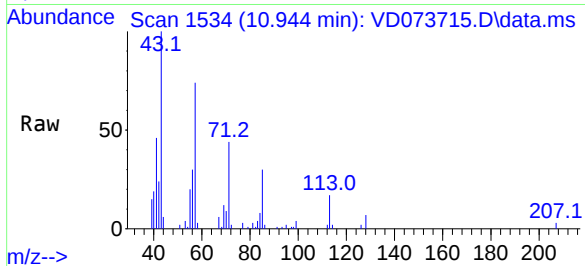




#59
2-Hexanone
Concen: 14.428 ug/l
RT: 10.944 min Scan# 11
Delta R.T. -0.029 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

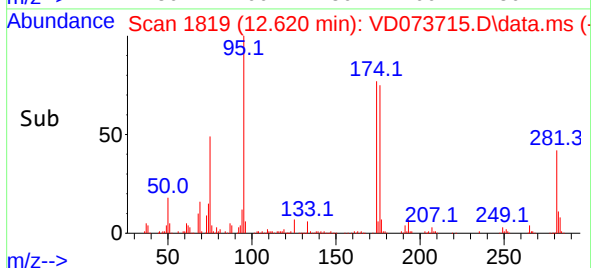
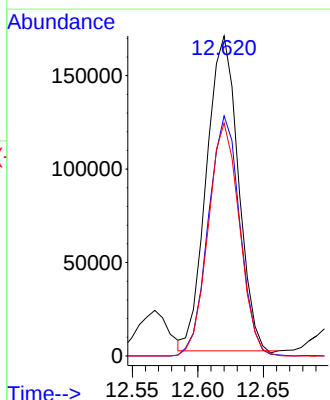
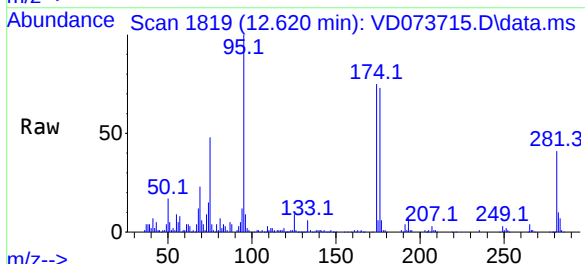
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

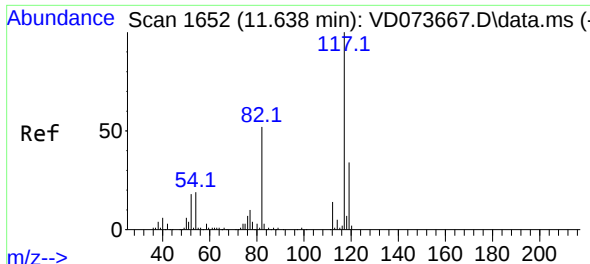
Tgt Ion: 43 Resp: 25625
Ion Ratio Lower Upper
43 100
58 3.4 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: 44.440 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 95 Resp: 283382
Ion Ratio Lower Upper
95 100
174 75.6 0.0 158.4
176 72.8 0.0 154.8

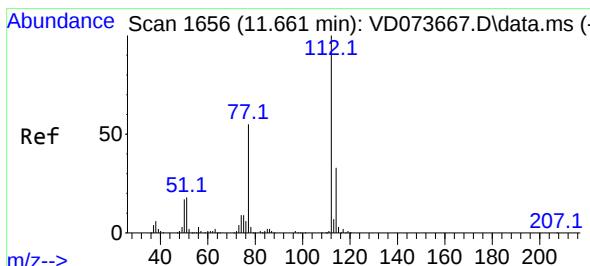
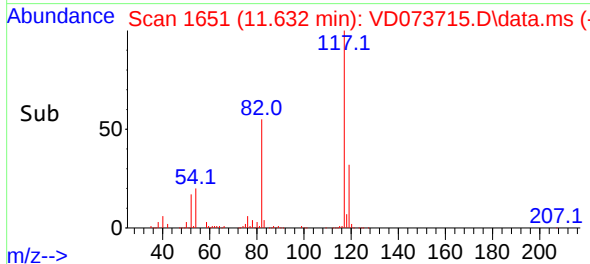
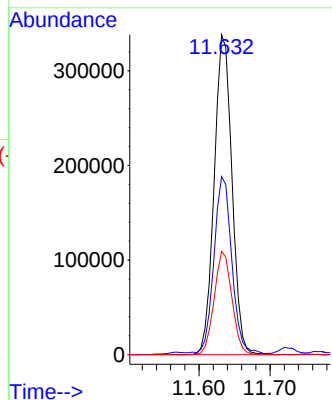
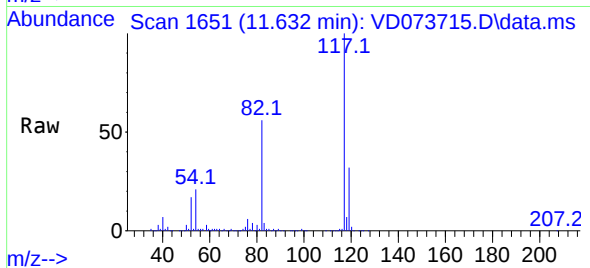




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 117
Delta R.T. -0.006 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

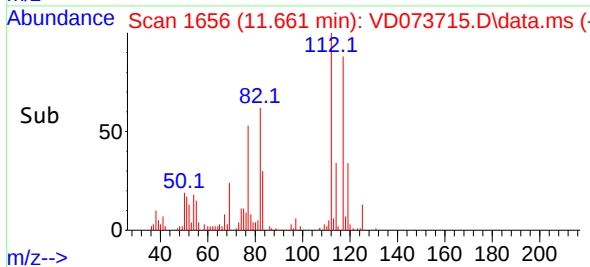
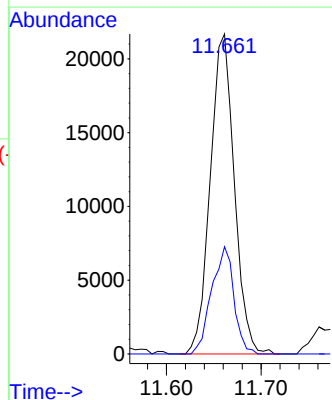
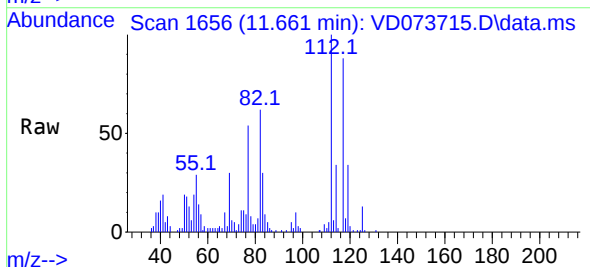
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

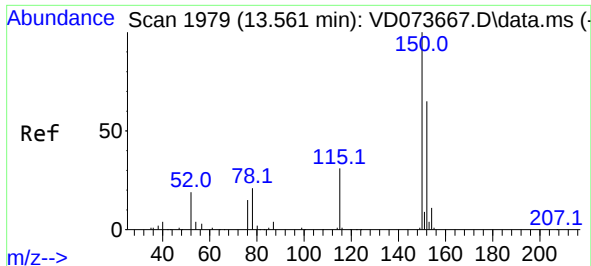
Tgt Ion:117 Resp: 586068
Ion Ratio Lower Upper
117 100
82 54.9 41.5 62.3
119 32.3 27.1 40.7



#65
Chlorobenzene
Concen: 2.665 ug/l
RT: 11.661 min Scan# 1656
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion:112 Resp: 38225
Ion Ratio Lower Upper
112 100
114 33.5 26.6 39.8

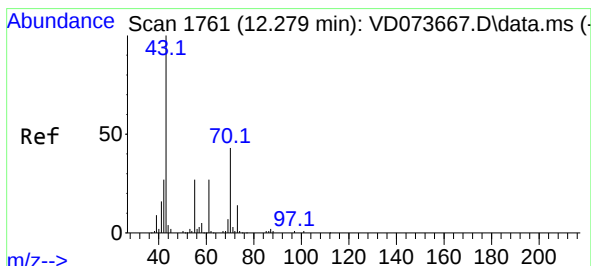
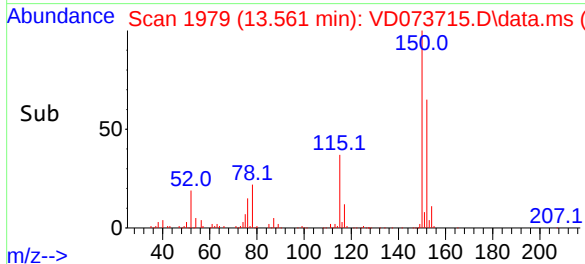
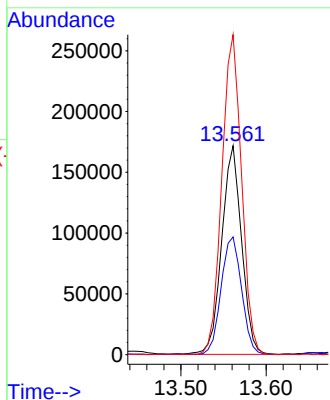
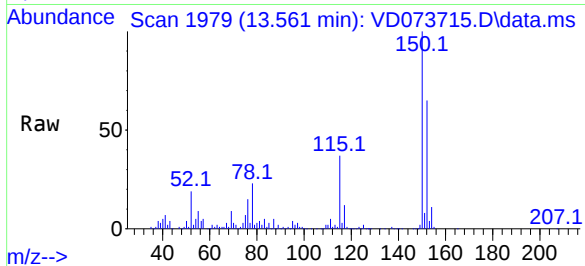




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

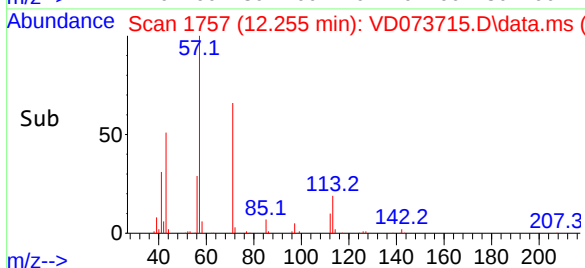
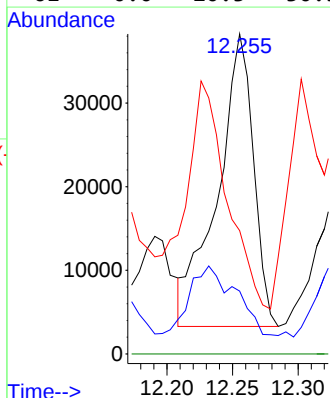
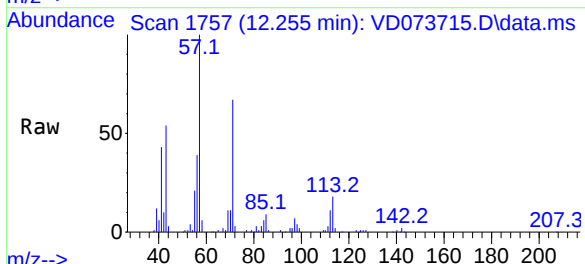
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

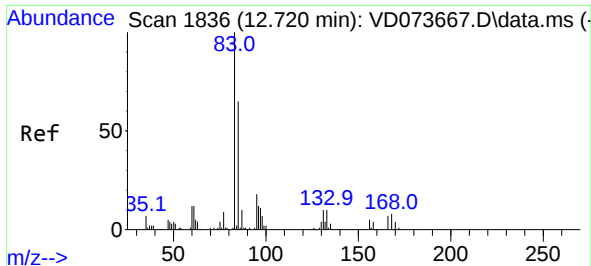
Tgt Ion:152 Resp: 277639
Ion Ratio Lower Upper
152 100
115 58.1 30.6 91.6
150 152.3 0.0 355.0



#74
N-ethyl acetate
Concen: 14.391 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.023 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 43 Resp: 66760
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.6#
55 0.0 21.0 31.4#
61 0.0 20.3 30.5#

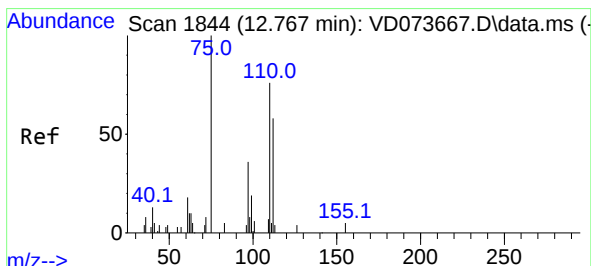
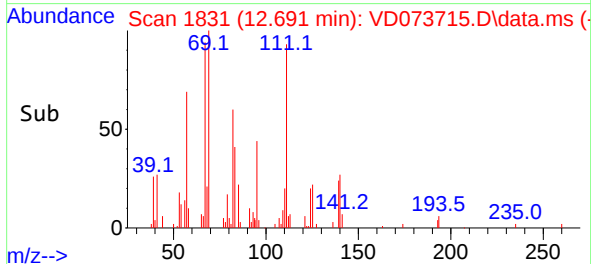
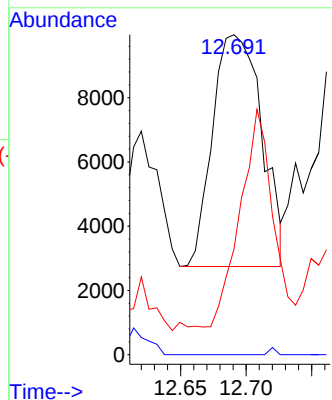
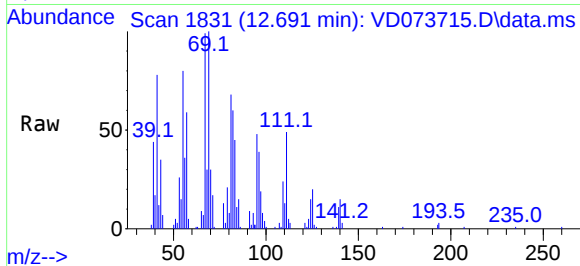




#75
1,1,2,2-Tetrachloroethane
Concen: 4.405 ug/l
RT: 12.691 min Scan# 1819
Delta R.T. -0.029 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

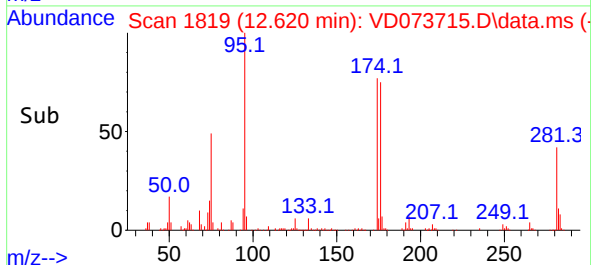
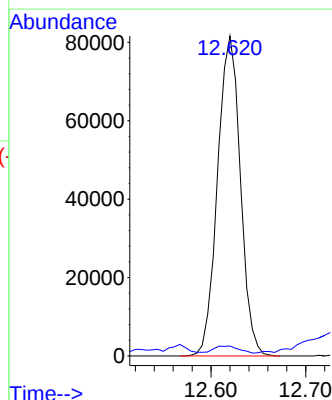
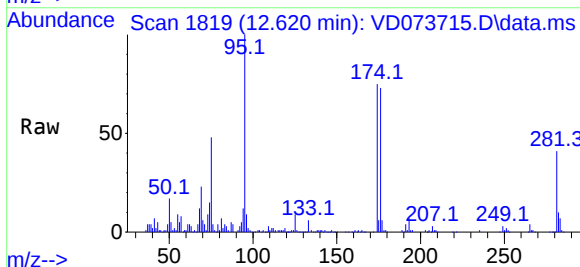
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

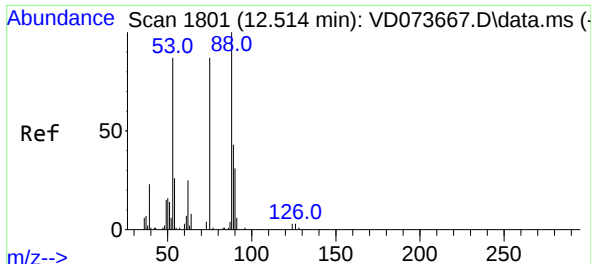
Tgt Ion: 83 Resp: 18840
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.7#
85 0.0 32.3 96.9#



#76
1,2,3-Trichloropropane
Concen: 50.676 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.147 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion: 75 Resp: 136920
Ion Ratio Lower Upper
75 100
77 2.3 195.3 586.0#

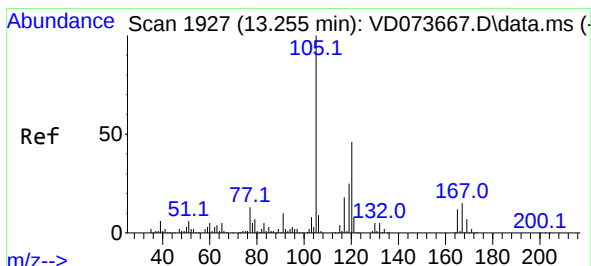
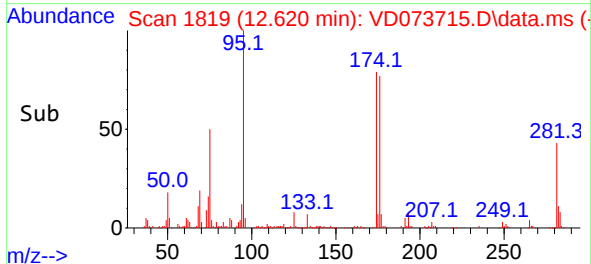
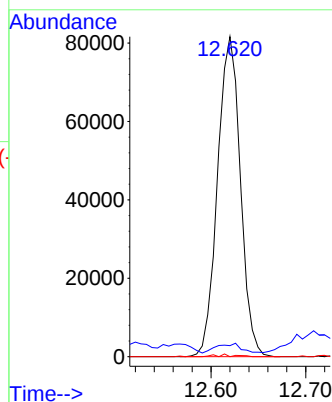
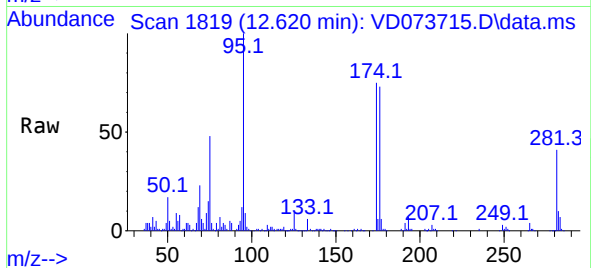




#81
trans-1,4-Dichloro-2-butene
Concen: 103.459 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

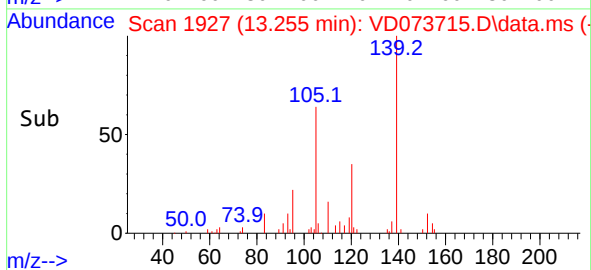
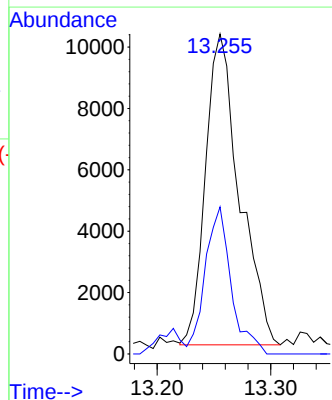
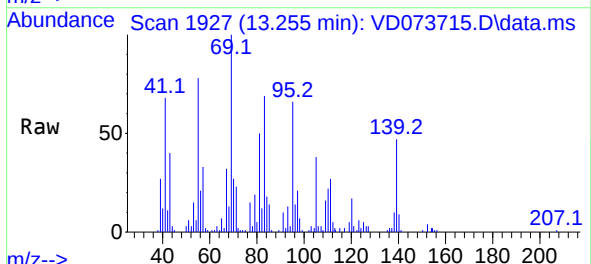
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

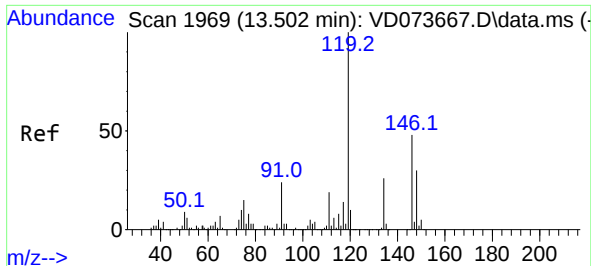
Tgt Ion: 75 Resp: 136920
Ion Ratio Lower Upper
75 100
53 3.2 77.0 115.6#
89 0.3 37.8 56.8#



#84
1,2,4-Trimethylbenzene
Concen: 1.102 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

Tgt Ion:105 Resp: 21040
Ion Ratio Lower Upper
105 100
120 36.1 22.6 67.8

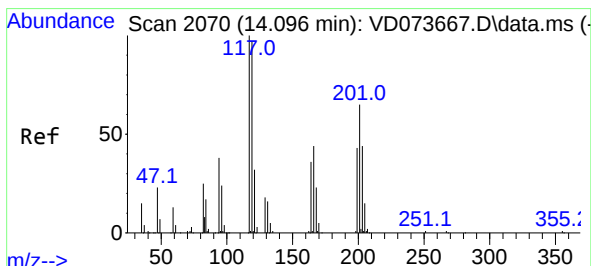
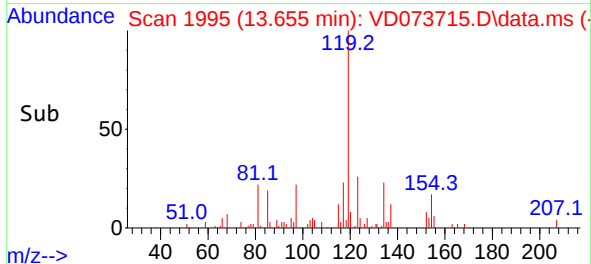
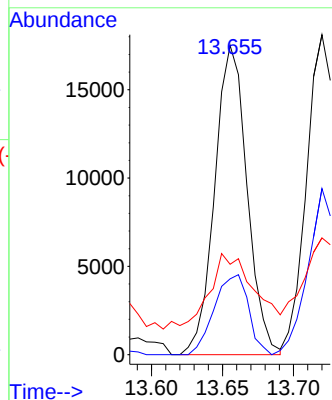
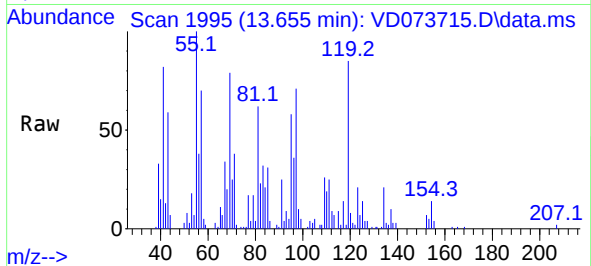




#86
p-Isopropyltoluene
Concen: 1.328 ug/l
RT: 13.655 min Scan# 1969
Delta R.T. 0.153 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

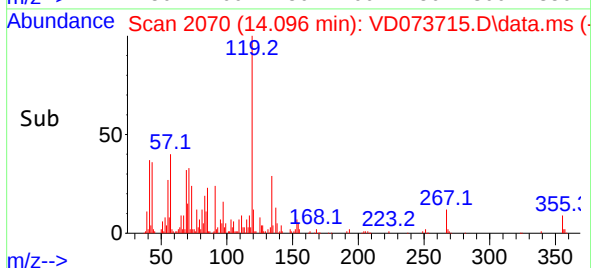
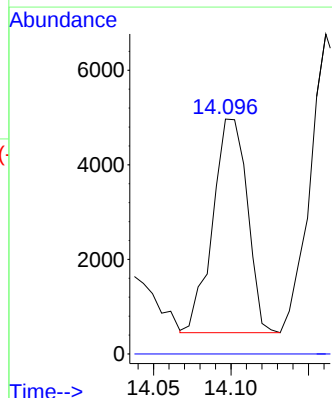
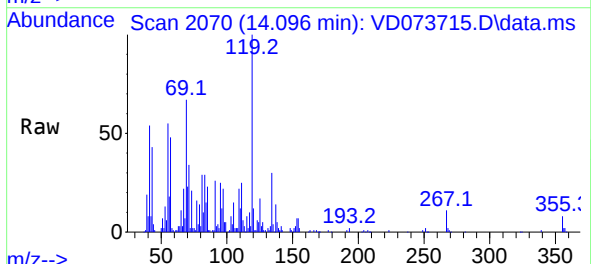
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-2

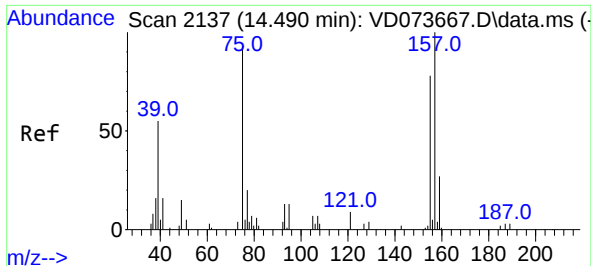
Tgt Ion:119 Resp: 27790
Ion Ratio Lower Upper
119 100
134 27.3 13.0 39.0
91 33.8 12.1 36.3



#90
Hexachloroethane
Concen: 1.630 ug/l
RT: 14.096 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VD073715.D
Acq: 25 Jun 2022 17:58

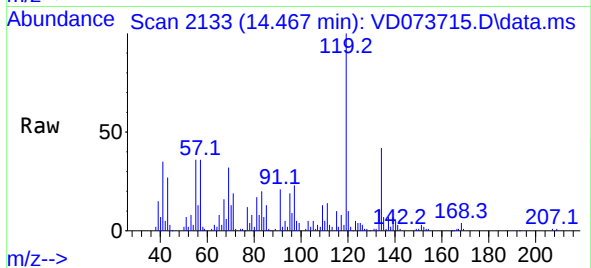
Tgt Ion:117 Resp: 7027
Ion Ratio Lower Upper
117 100
201 0.0 33.8 101.4#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.228 ug/l
 RT: 14.467 min Scan# 21
 Delta R.T. -0.023 min
 Lab File: VD073715.D
 Acq: 25 Jun 2022 17:58

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-EXC-2-2



Tgt Ion: 75 Resp: 877

Ion	Ratio	Lower	Upper
75	100		
155	0.0	41.2	123.6#
157	6.4	55.5	166.5#

