

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071621\
 Data File : VD069721.D
 Acq On : 16 Jul 2021 13:09
 Operator : VA/SY
 Sample : M3026-07
 Misc : 10.17G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 16 16:15:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071321S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 14 06:00:31 2021
 Response via : Initial Calibration

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

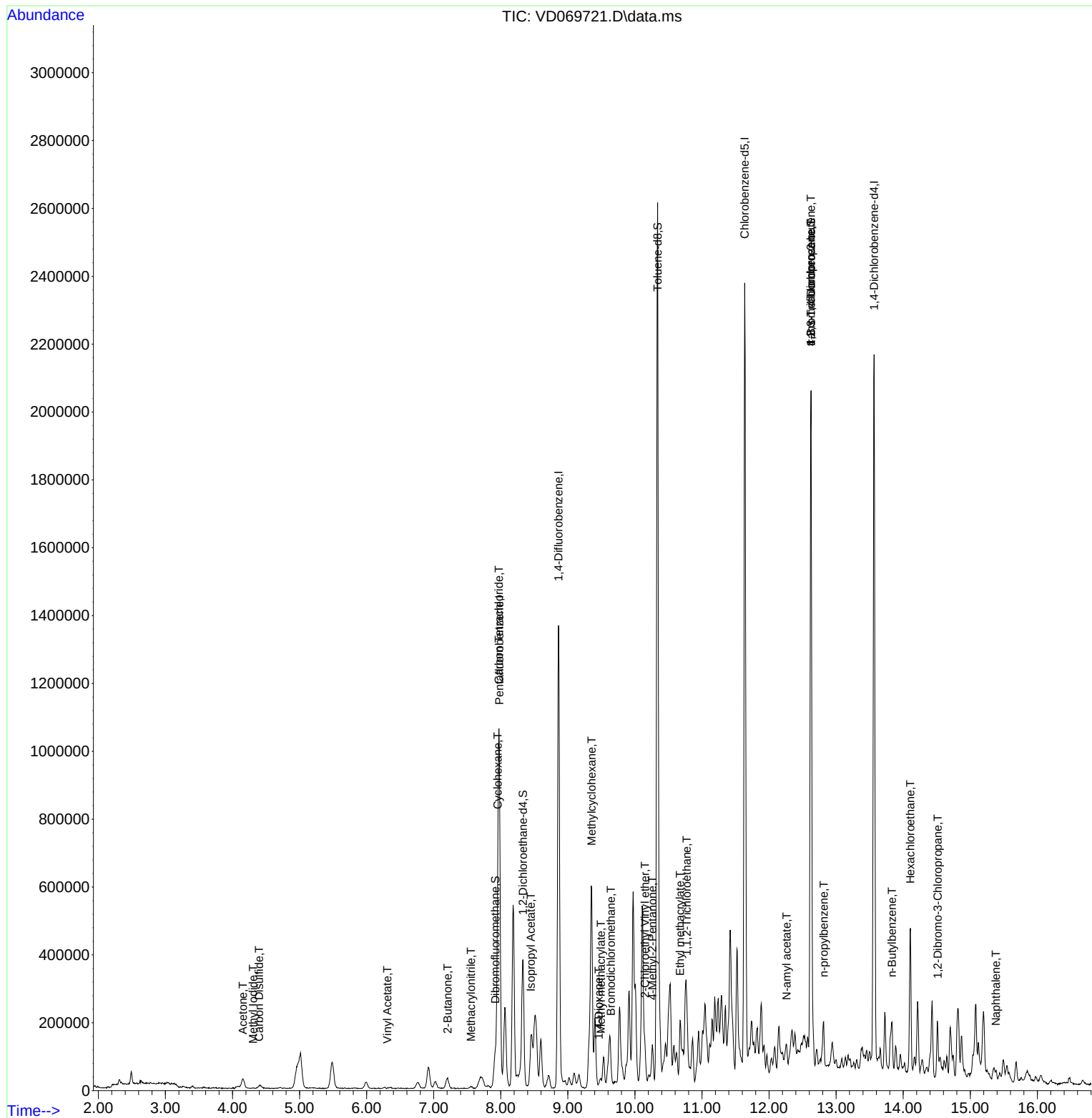
Internal Standards						
1) Pentafluorobenzene	7.979	168	586779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1086366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	1267901	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	556404	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	299087	40.822	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	81.640%		
35) Dibromofluoromethane	7.920	113	64317	8.825	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	17.640%#		
50) Toluene-d8	10.338	98	1514613	53.492	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	106.980%		
62) 4-Bromofluorobenzene	12.626	95	639031	67.671	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	135.340%		
Target Compounds					Qvalue	
5) Bromomethane	2.773	94	2553	Below Cal	#	53
10) Methyl Iodide	4.309	142	1942	2.722	ug/l #	71
16) Acetone	4.156	43	50791	43.169	ug/l	99
17) Carbon Disulfide	4.397	76	18448	1.245	ug/l	95
18) Methyl Acetate	4.714	43	904	Below Cal	#	49
20) Methylene Chloride	4.956	84	39845	Below Cal	#	82
23) Vinyl Acetate	6.308	43	369	15.455	ug/l #	72
25) 2-Butanone	7.208	43	15254	8.809	ug/l	99
31) Cyclohexane	7.955	56	117148	9.729	ug/l #	54
38) Carbon Tetrachloride	7.973	117	63667	6.204	ug/l #	16
39) Methylcyclohexane	9.355	83	194915	15.947	ug/l	98
41) Methacrylonitrile	7.555	41	2218	1.010	ug/l #	40
43) Isopropyl Acetate	8.450	43	40243	5.184	ug/l #	47
47) Bromodichloromethane	9.644	83	27396	2.493	ug/l #	25
48) Methyl methacrylate	9.491	41	4416	2.174	ug/l #	31
49) 1,4-Dioxane	9.461	88	698	112.059	ug/l #	6
51) 4-Methyl-2-Pentanone	10.261	43	8906	2.215	ug/l #	77
55) 1,1,2-Trichloroethane	10.773	97	58101	10.016	ug/l #	21
56) Ethyl methacrylate	10.673	69	20624	4.355	ug/l #	3
58) 2-Chloroethyl Vinyl ether	10.149	63	553	9.521	ug/l	97
74) N-amyl acetate	12.261	43	22341	2.595	ug/l #	55
76) 1,2,3-Trichloropropane	12.626	75	312215	57.761	ug/l #	100
78) n-propylbenzene	12.814	91	95004	1.891	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.626	75	312215	155.230	ug/l #	15
89) n-Butylbenzene	13.832	91	89520	2.577	ug/l #	87
90) Hexachloroethane	14.108	117	26092	3.656	ug/l #	23
92) 1,2-Dibromo-3-Chloropr...	14.514	75	1627	1.384	ug/l #	10
95) Naphthalene	15.384	128	12404	2.879	ug/l #	77

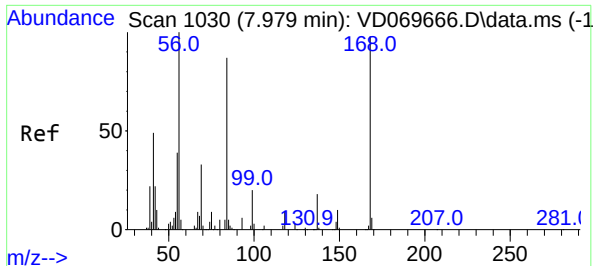
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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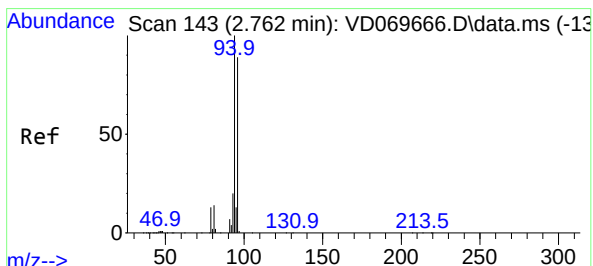
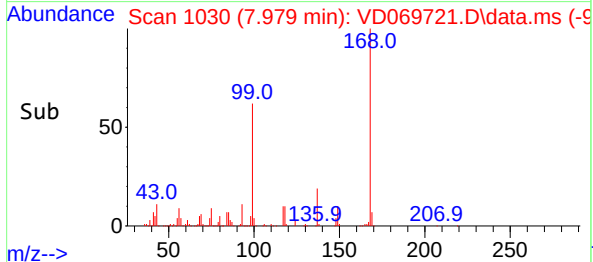
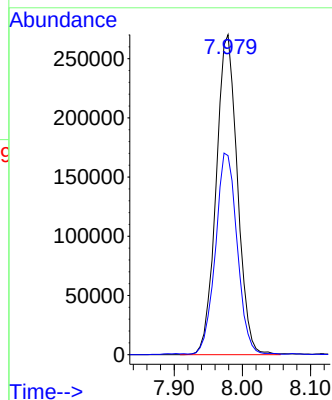
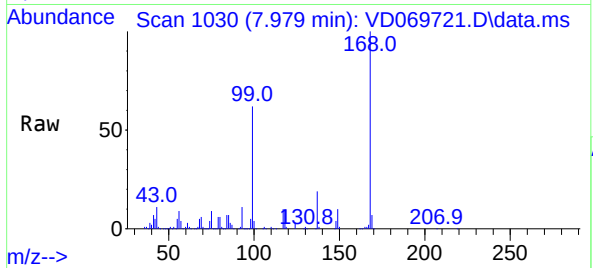




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

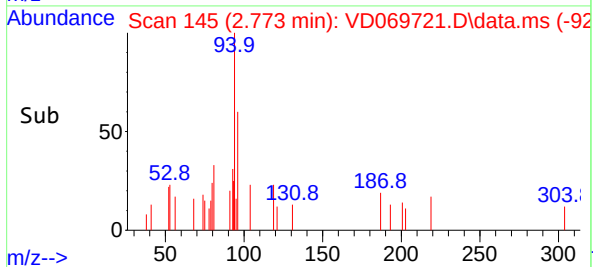
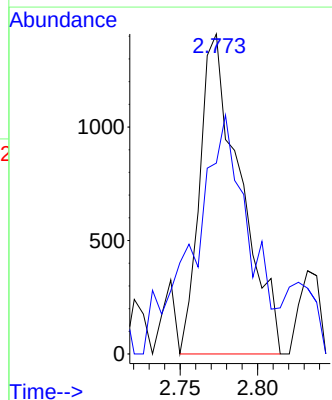
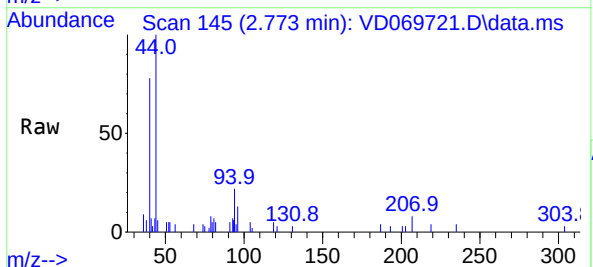
Instrument :
MSVOA_D
ClientSampleId :

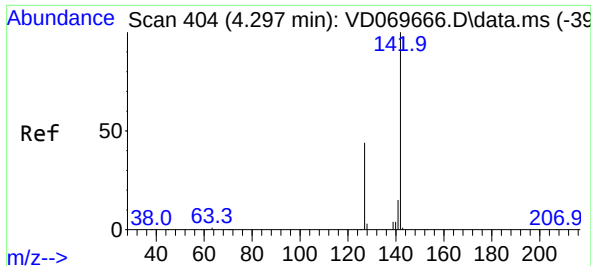
Tgt Ion:168 Resp: 586779
Ion Ratio Lower Upper
168 100
99 62.0 51.8 77.6



#5
Bromomethane
Concen: Below Cal
RT: 2.773 min Scan# 145
Delta R.T. 0.011 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

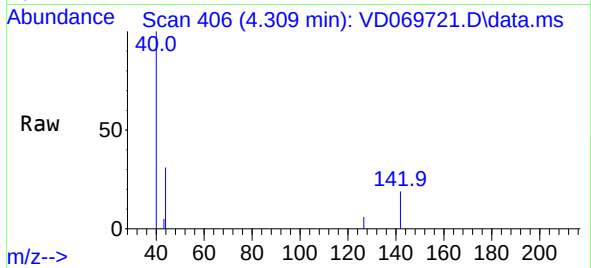
Tgt Ion: 94 Resp: 2553
Ion Ratio Lower Upper
94 100
96 45.2 71.2 106.8#



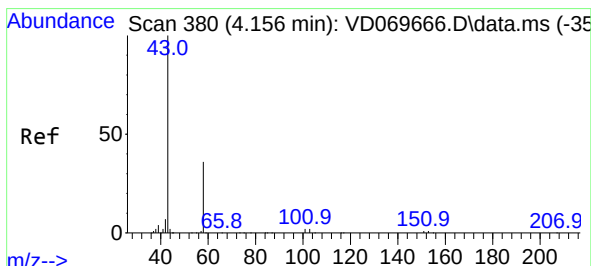
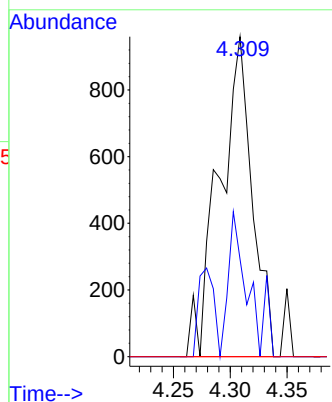
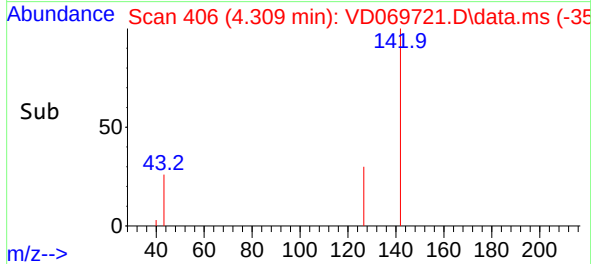


#10
Methyl Iodide
Concen: 2.722 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.012 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

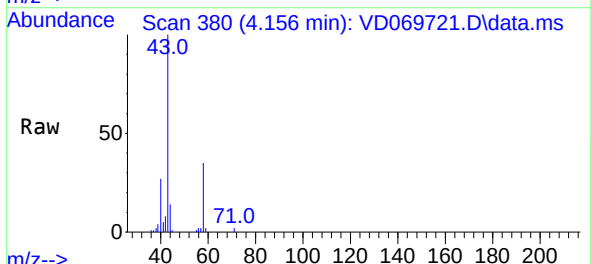
Instrument :
MSVOA_D
ClientSampled :



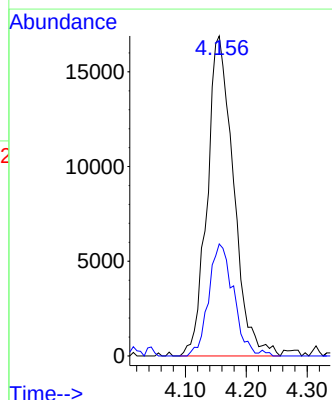
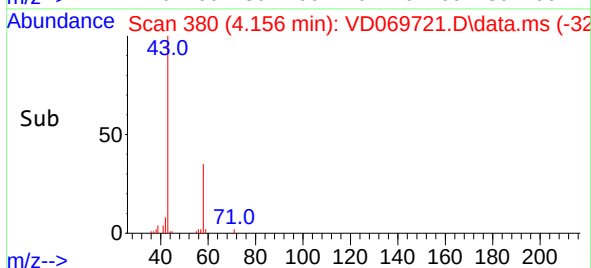
Tgt Ion:142 Resp: 1942
Ion Ratio Lower Upper
142 100
127 27.7 36.1 54.1#
141 0.0 11.6 17.4#

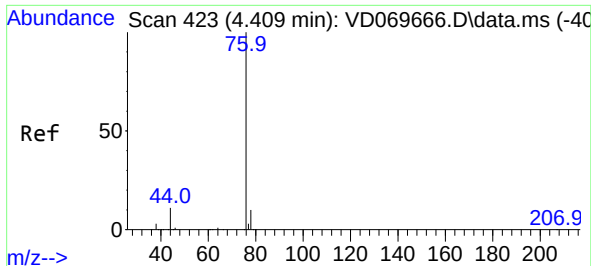


#16
Acetone
Concen: 43.169 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09



Tgt Ion: 43 Resp: 50791
Ion Ratio Lower Upper
43 100
58 35.0 28.6 42.8

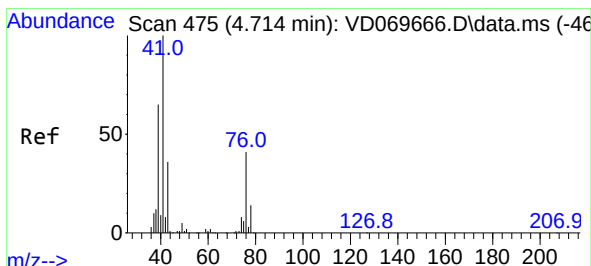
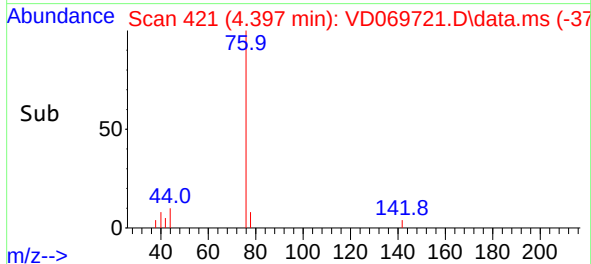
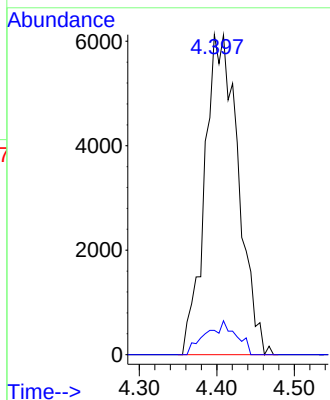
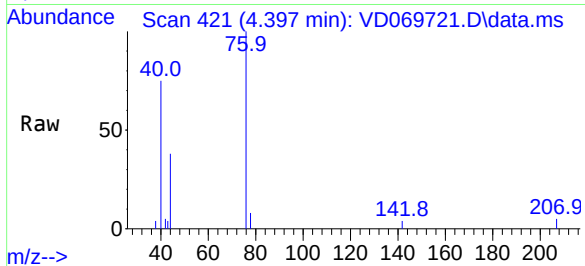




#17
Carbon Disulfide
Concen: 1.245 ug/l
RT: 4.397 min Scan# 421
Delta R.T. -0.012 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

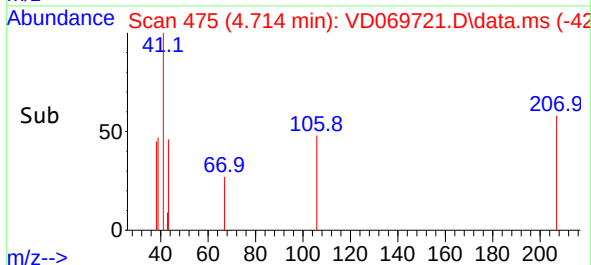
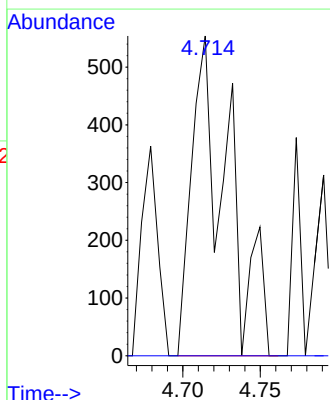
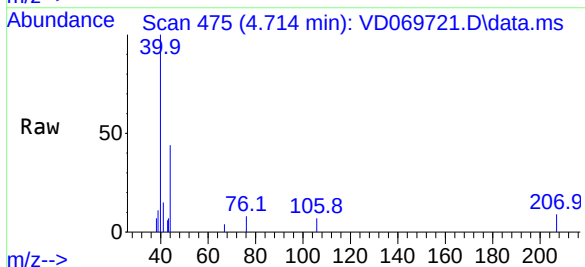
Instrument :
MSVOA_D
ClientSampleId :

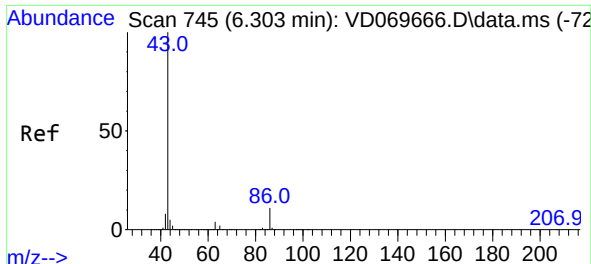
Tgt Ion: 76 Resp: 18448
Ion Ratio Lower Upper
76 100
78 7.6 7.6 11.4



#18
Methyl Acetate
Concen: Below Cal
RT: 4.714 min Scan# 475
Delta R.T. 0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 43 Resp: 904
Ion Ratio Lower Upper
43 100
74 0.0 20.6 30.8#

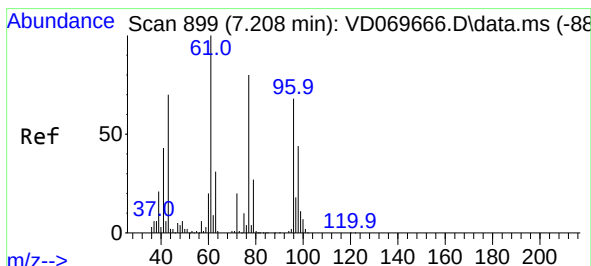
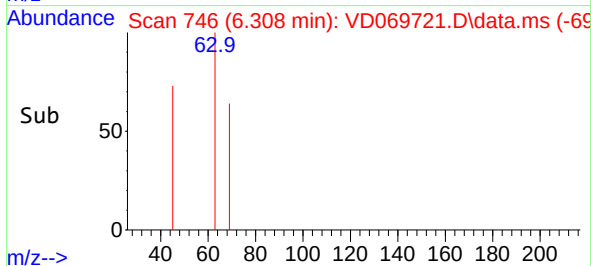
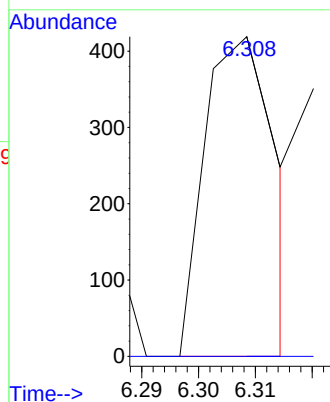
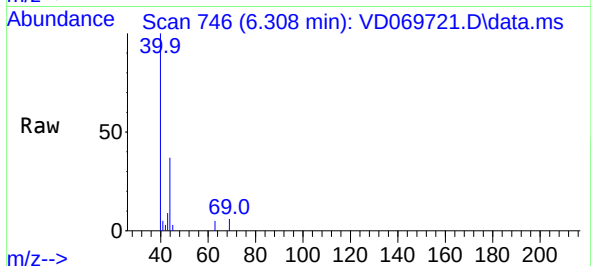




#23
 Vinyl Acetate
 Concen: 15.455 ug/l
 RT: 6.308 min Scan# 746
 Delta R.T. 0.005 min
 Lab File: VD069721.D
 Acq: 16 Jul 2021 13:09

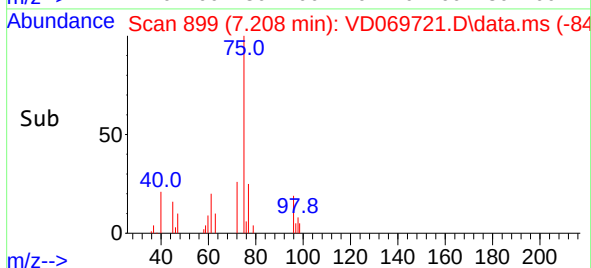
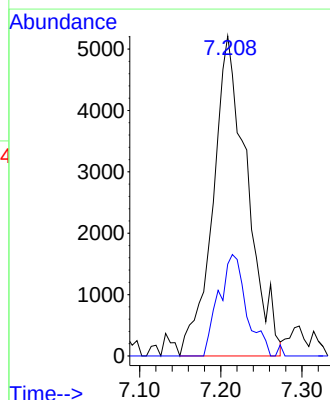
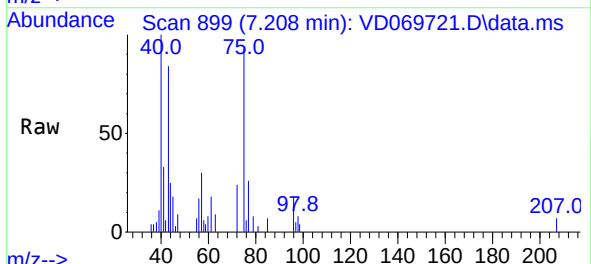
Instrument :
 MSVOA_D
 ClientSampleId :

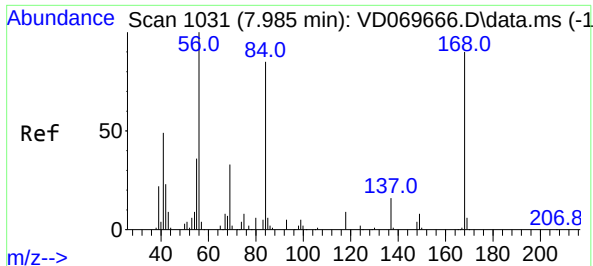
Tgt Ion: 43 Resp: 369
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 12.8#



#25
 2-Butanone
 Concen: 8.809 ug/l
 RT: 7.208 min Scan# 899
 Delta R.T. 0.000 min
 Lab File: VD069721.D
 Acq: 16 Jul 2021 13:09

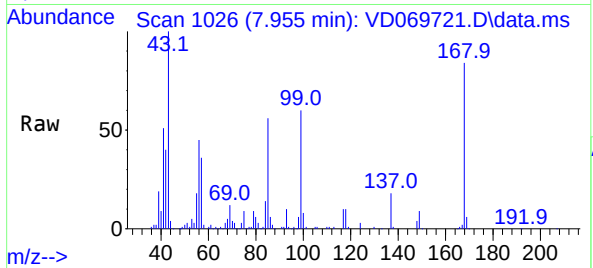
Tgt Ion: 43 Resp: 15254
 Ion Ratio Lower Upper
 43 100
 72 28.7 22.6 33.8



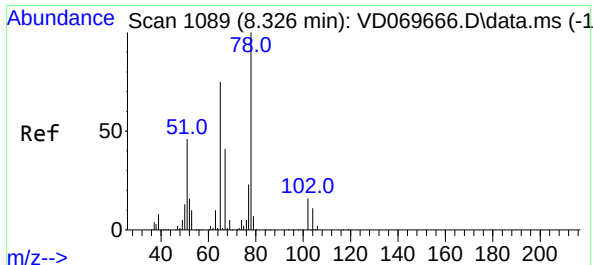
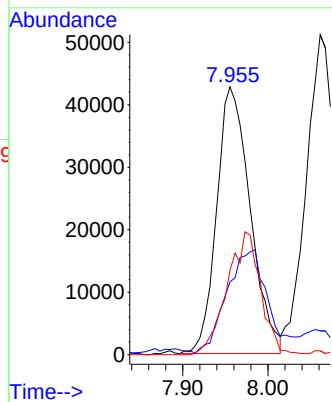
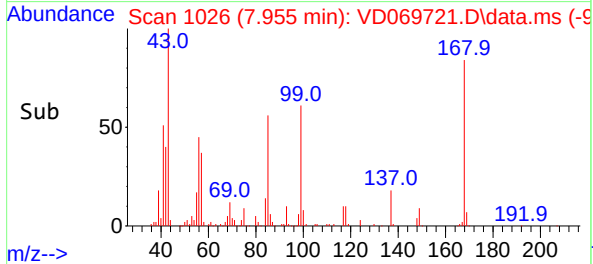


#31
Cyclohexane
Concen: 9.729 ug/l
RT: 7.955 min Scan# 1026
Delta R.T. -0.030 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

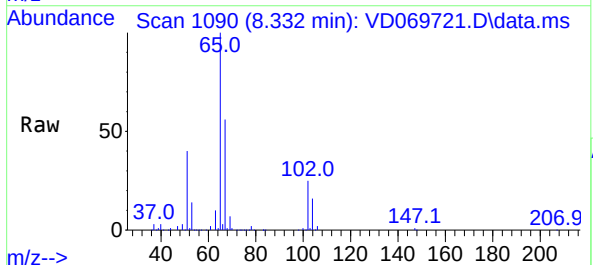
Instrument :
MSVOA_D
ClientSampled :



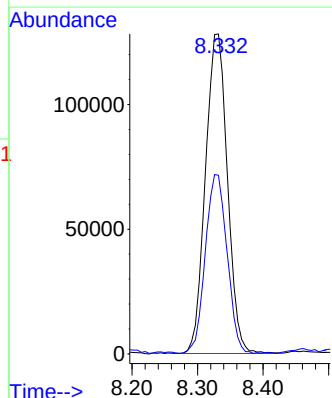
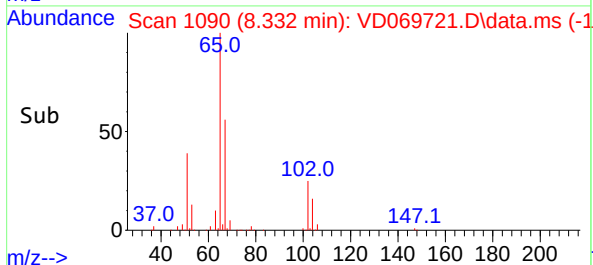
Tgt Ion: 56 Resp: 117148
Ion Ratio Lower Upper
56 100
69 25.5 26.6 39.8#
84 31.6 68.2 102.2#

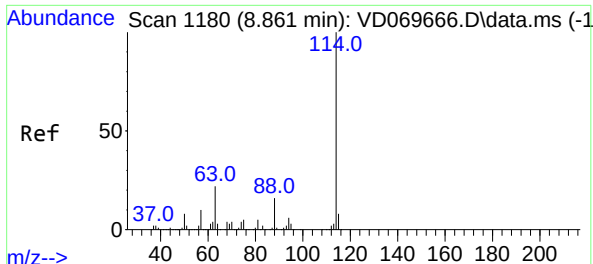


#33
1,2-Dichloroethane-d4
Concen: 40.822 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09



Tgt Ion: 65 Resp: 299087
Ion Ratio Lower Upper
65 100
67 55.2 0.0 107.2



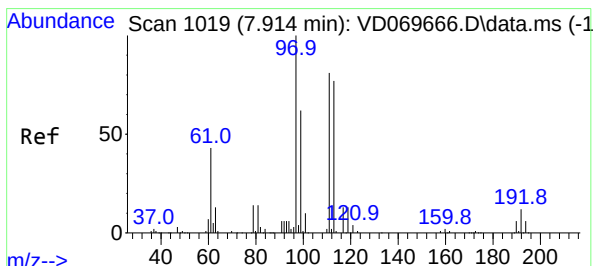
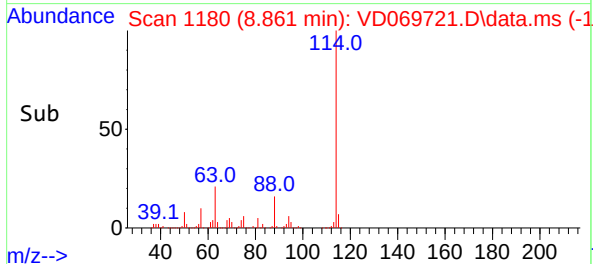
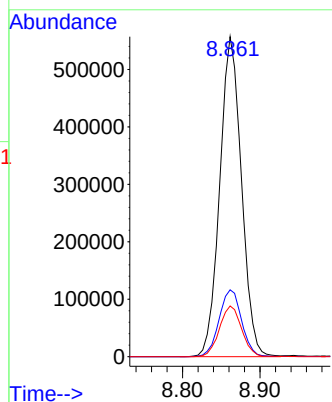
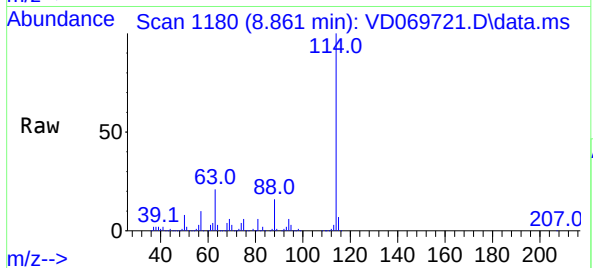


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Instrument :
MSVOA_D
ClientSampleId :

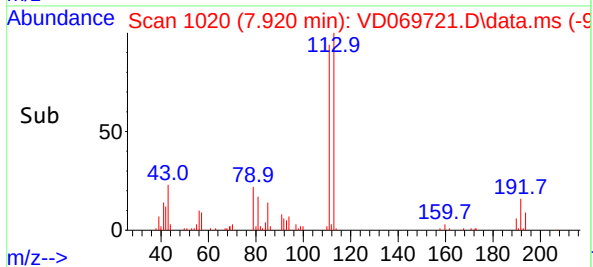
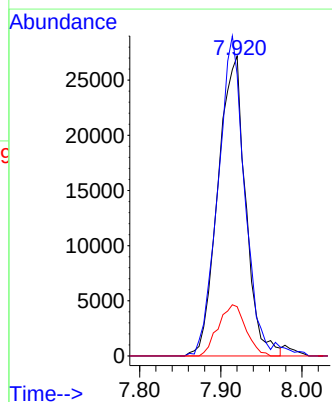
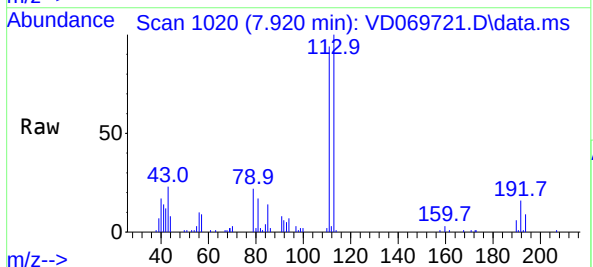
Tgt Ion:114 Resp: 1086366
Ion Ratio Lower Upper
114 100
63 20.9 0.0 43.4
88 15.8 0.0 32.0

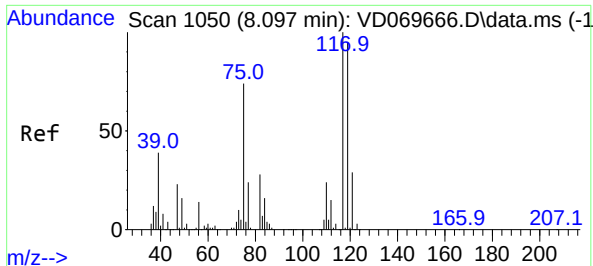


#35

Dibromofluoromethane
Concen: 8.825 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

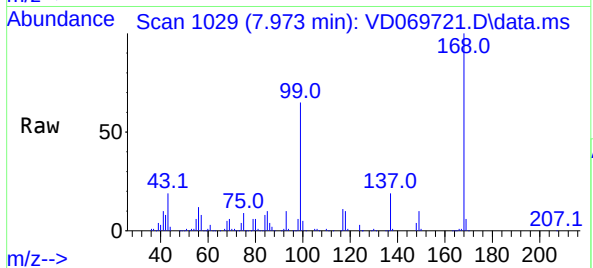
Tgt Ion:113 Resp: 64317
Ion Ratio Lower Upper
113 100
111 101.9 82.6 123.8
192 17.0 12.7 19.1



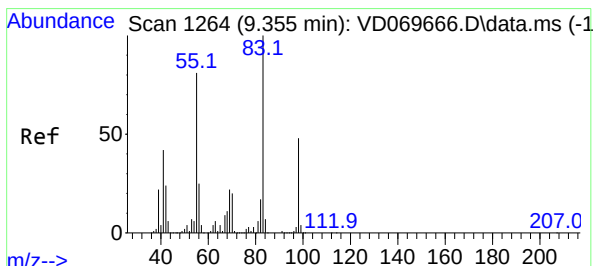
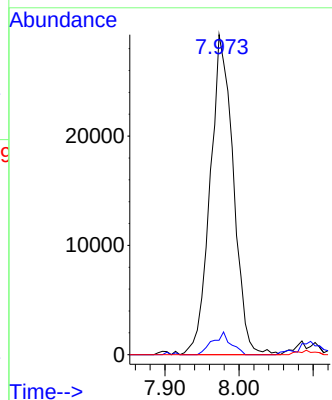
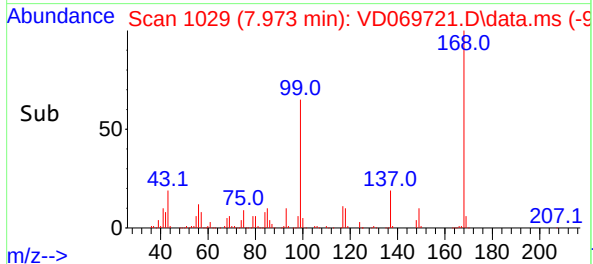


#38
Carbon Tetrachloride
Concen: 6.204 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

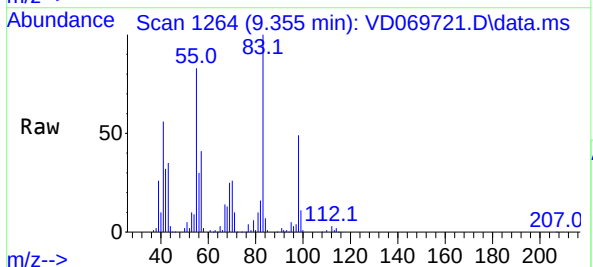
Instrument :
MSVOA_D
ClientSampleId :



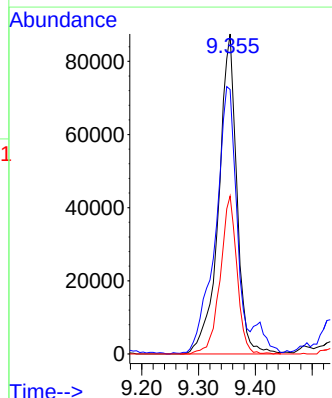
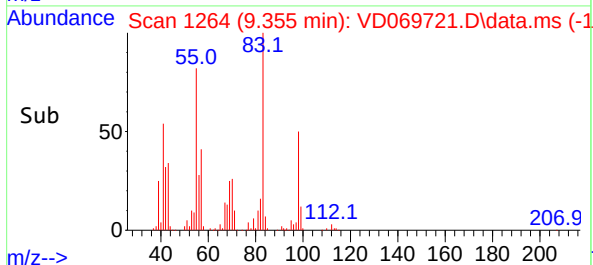
Tgt Ion:117 Resp: 63667
Ion Ratio Lower Upper
117 100
119 4.5 75.7 113.5#
121 0.0 23.0 34.6#

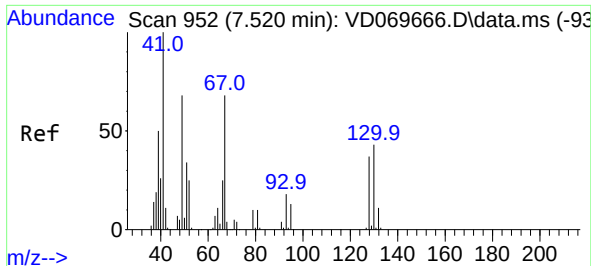


#39
Methylcyclohexane
Concen: 15.947 ug/l
RT: 9.355 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09



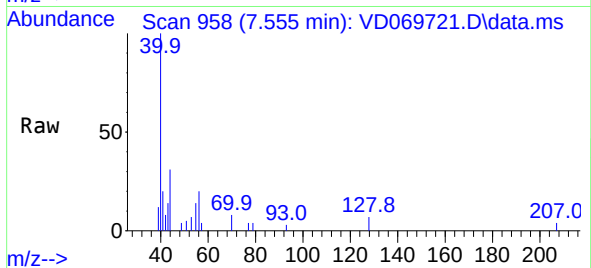
Tgt Ion: 83 Resp: 194915
Ion Ratio Lower Upper
83 100
55 82.4 64.6 97.0
98 49.3 38.4 57.6





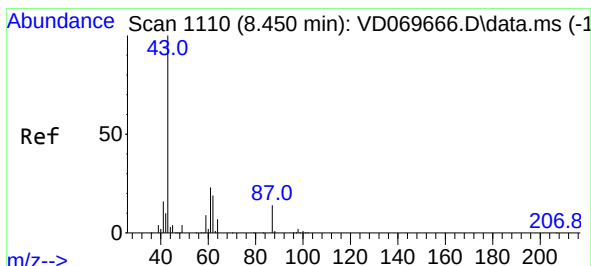
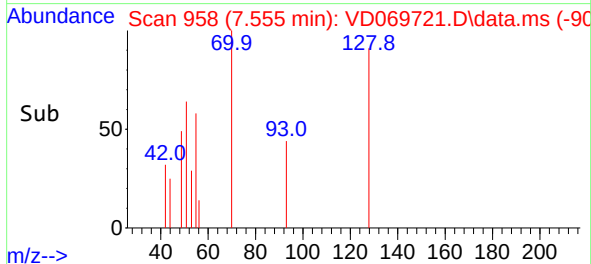
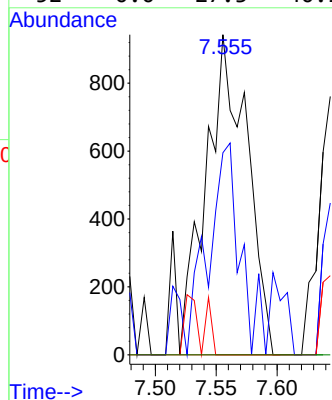
#41
Methacrylonitrile
Concen: 1.010 ug/l
RT: 7.555 min Scan# 958
Delta R.T. 0.035 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 41 Resp: 2218

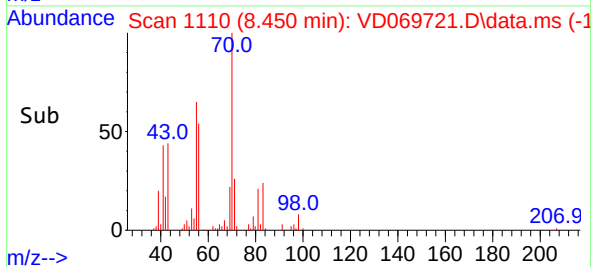
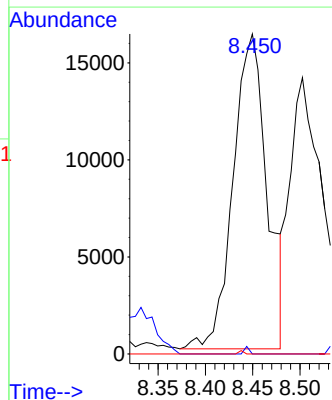
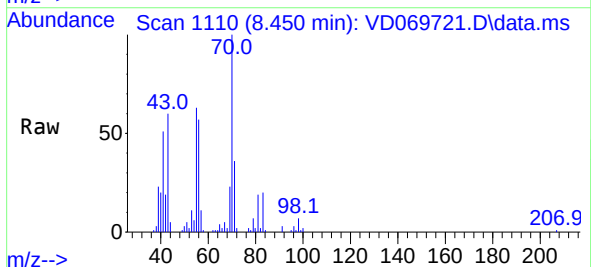
Ion	Ratio	Lower	Upper
41	100		
39	47.7	47.4	71.0
67	0.0	67.0	100.6#
52	0.0	27.3	40.9#

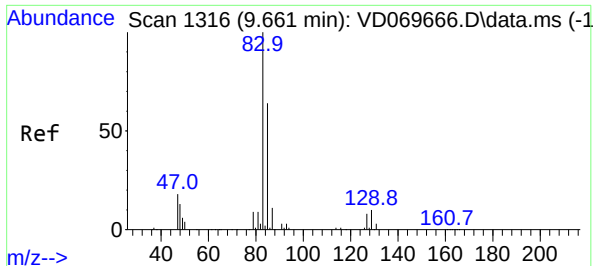


#43
Isopropyl Acetate
Concen: 5.184 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 43 Resp: 40243

Ion	Ratio	Lower	Upper
43	100		
61	0.0	27.8	41.6#
87	0.1	11.0	16.6#





#47

Bromodichloromethane

Concen: 2.493 ug/l

RT: 9.644 min Scan# 1313

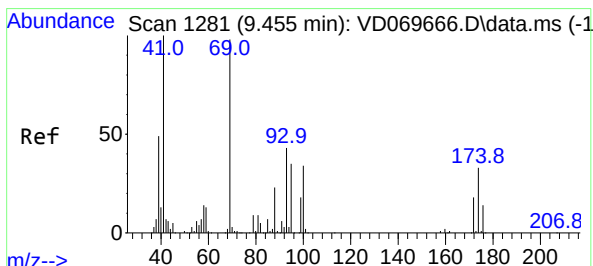
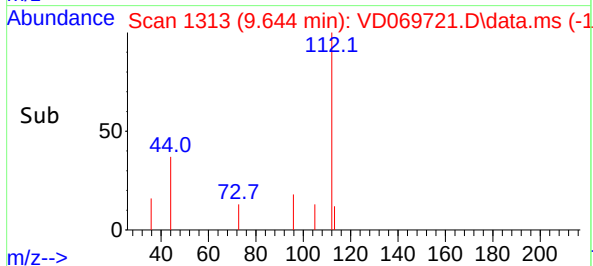
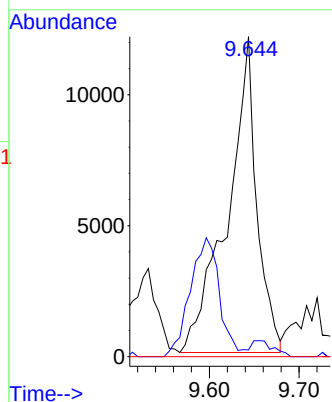
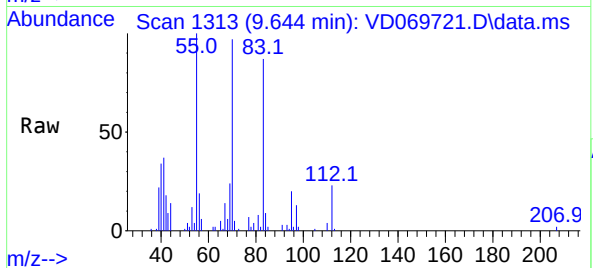
Delta R.T. -0.017 min

Lab File: VD069721.D

Acq: 16 Jul 2021 13:09

Tgt Ion:	83	Resp:	27396
Ion	Ratio	Lower	Upper
83	100		
85	0.4	51.4	77.0#
127	0.0	6.7	10.1#

Instrument :
MSVOA_D
ClientSampleId :



#48

Methyl methacrylate

Concen: 2.174 ug/l

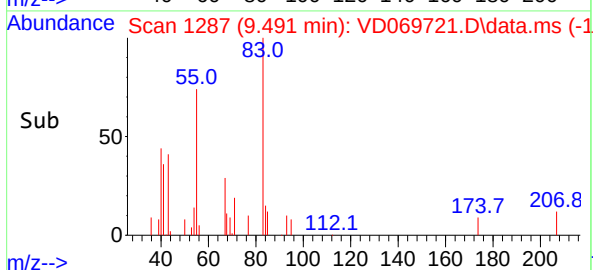
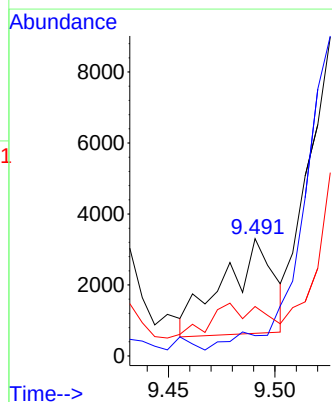
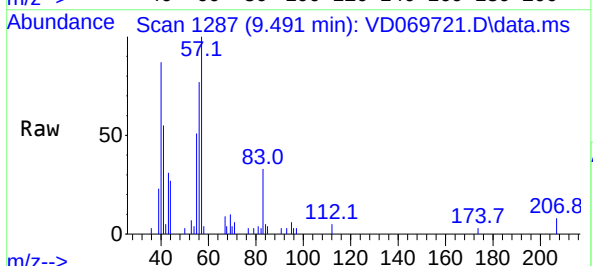
RT: 9.491 min Scan# 1287

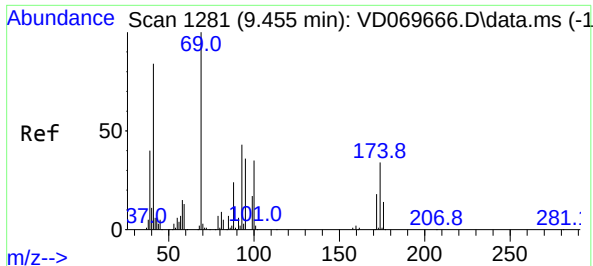
Delta R.T. 0.036 min

Lab File: VD069721.D

Acq: 16 Jul 2021 13:09

Tgt Ion:	41	Resp:	4416
Ion	Ratio	Lower	Upper
41	100		
69	0.0	71.6	107.4#
39	56.7	36.7	55.1#

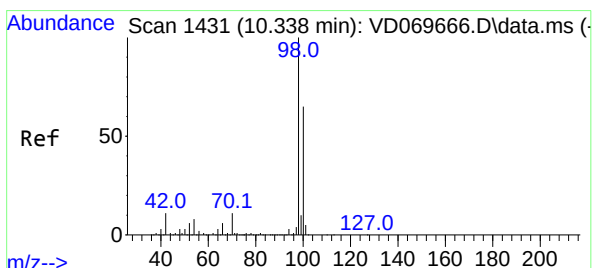
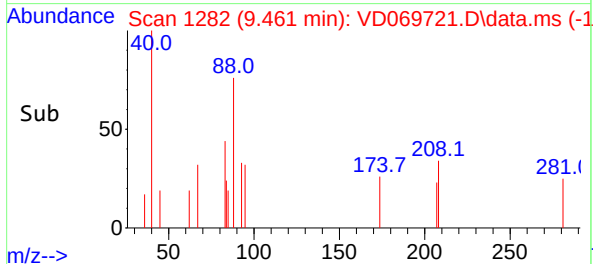
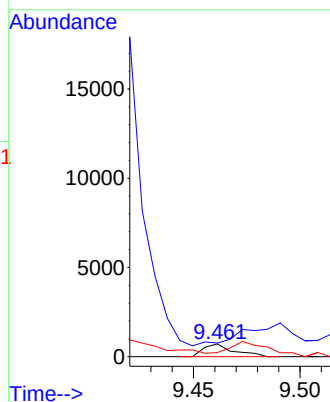
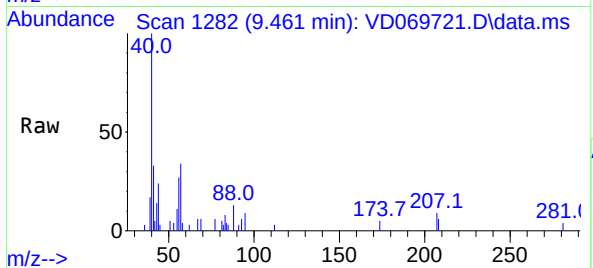




#49
1,4-Dioxane
Concen: 112.059 ug/l
RT: 9.461 min Scan# 1282
Delta R.T. 0.006 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

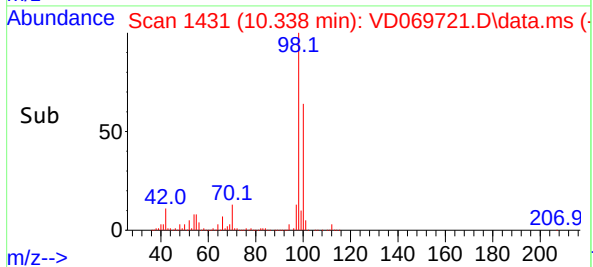
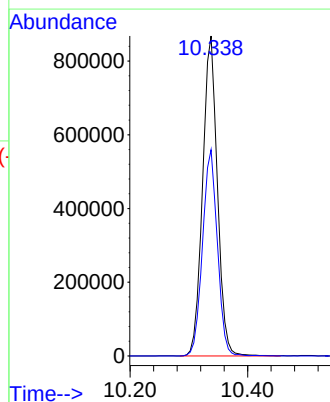
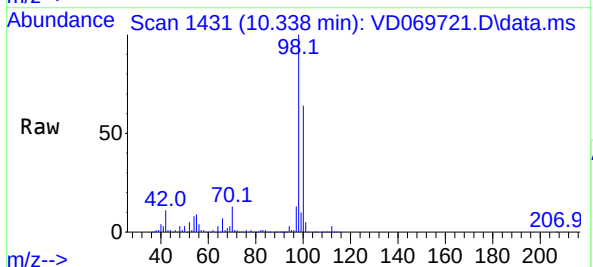
Instrument :
MSVOA_D
ClientSampleId :

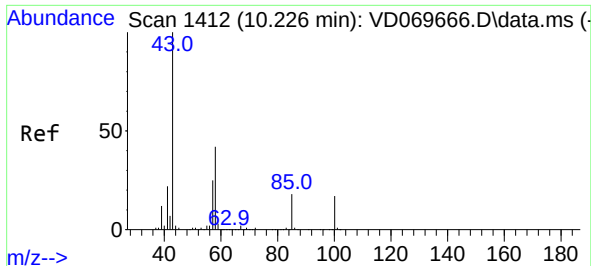
Tgt Ion: 88 Resp: 698
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 173.2 62.6 94.0#



#50
Toluene-d8
Concen: 53.492 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 98 Resp: 1514613
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2

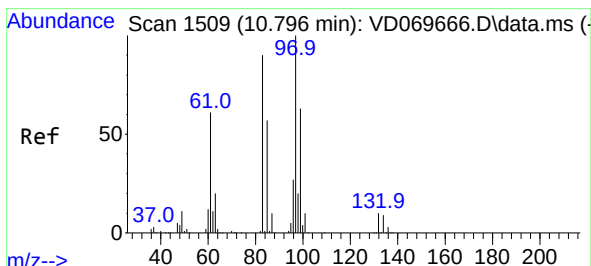
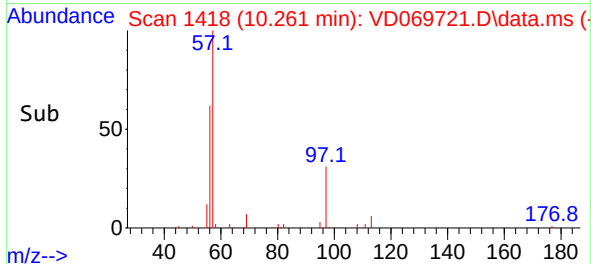
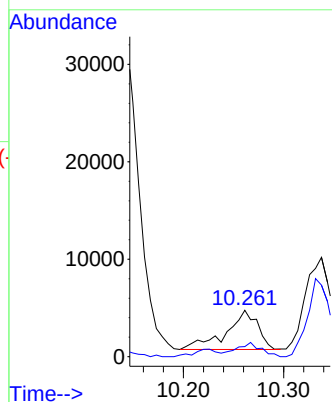
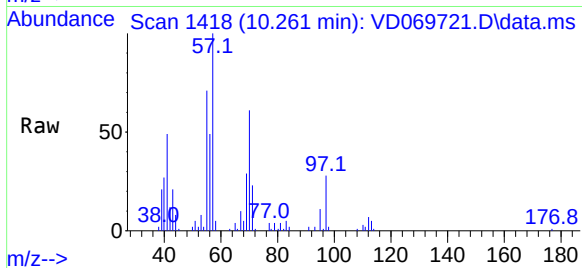




#51
4-Methyl-2-Pentanone
Concen: 2.215 ug/l
RT: 10.261 min Scan# 1418
Delta R.T. 0.035 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

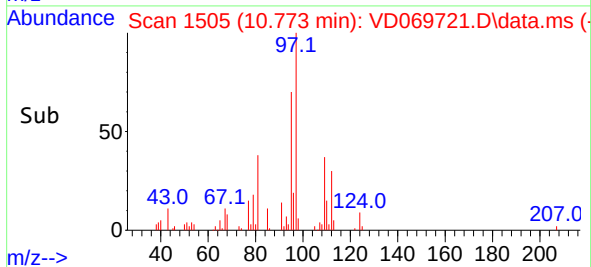
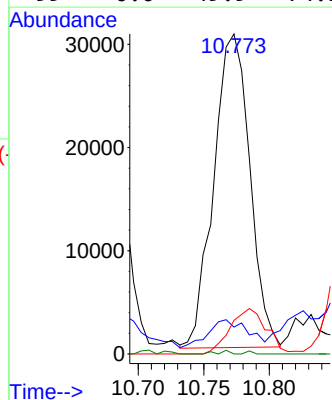
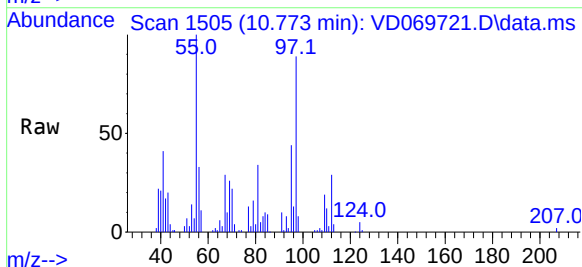
Instrument :
MSVOA_D
ClientSampled :

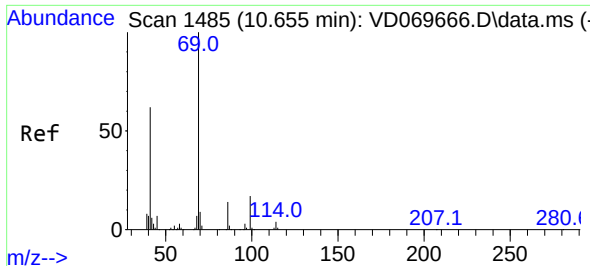
Tgt Ion: 43 Resp: 8906
Ion Ratio Lower Upper
43 100
58 27.6 33.5 50.3#



#55
1,1,2-Trichloroethane
Concen: 10.016 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.023 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 97 Resp: 58101
Ion Ratio Lower Upper
97 100
83 6.7 72.3 108.5#
85 10.8 45.5 68.3#
99 0.0 49.9 74.9#

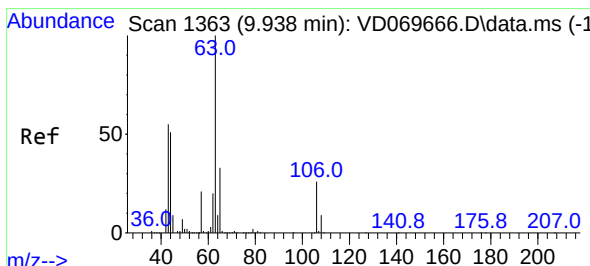
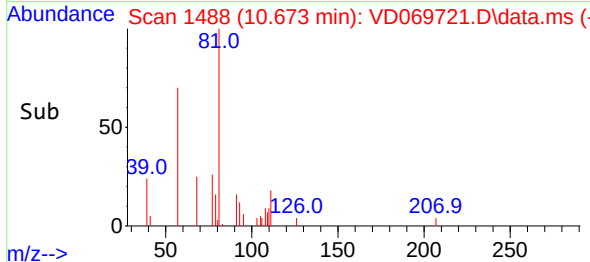
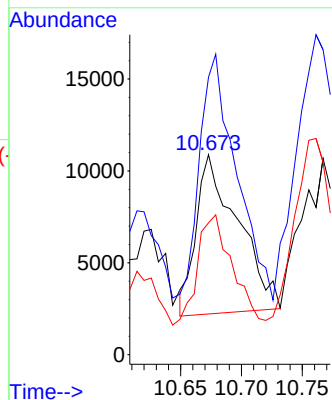
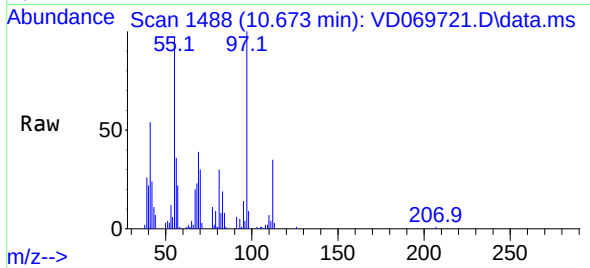




#56
Ethyl methacrylate
Concen: 4.355 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

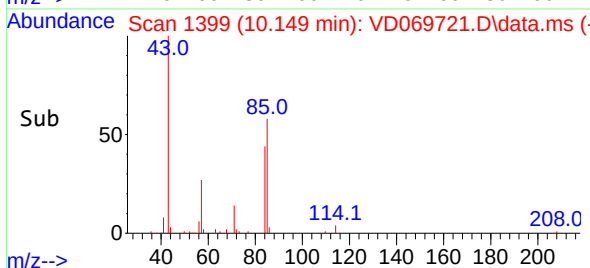
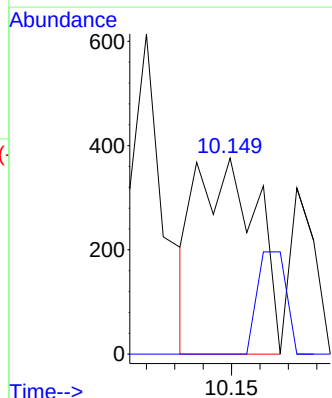
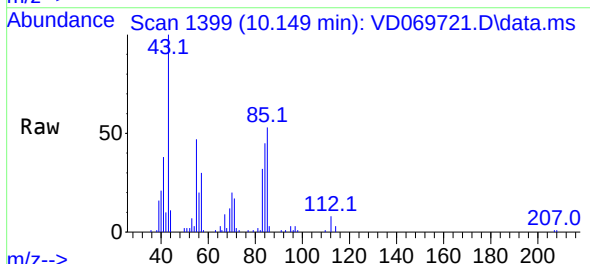
Instrument :
MSVOA_D
ClientSampleId :

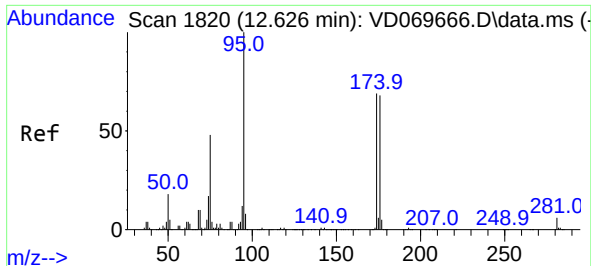
Tgt Ion: 69 Resp: 20624
Ion Ratio Lower Upper
69 100
41 141.4 49.5 74.3#
39 71.5 22.5 33.7#



#58
2-Chloroethyl Vinyl ether
Concen: 9.521 ug/l
RT: 10.149 min Scan# 1399
Delta R.T. 0.211 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 63 Resp: 553
Ion Ratio Lower Upper
63 100
106 25.0 21.1 31.7

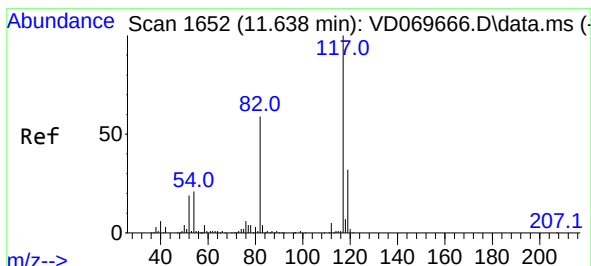
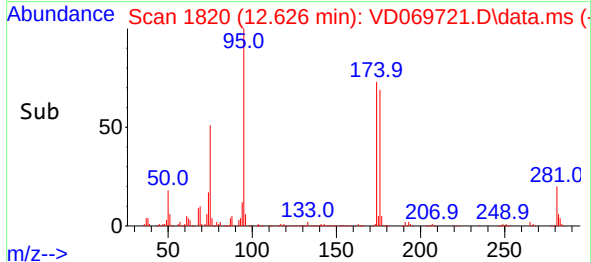
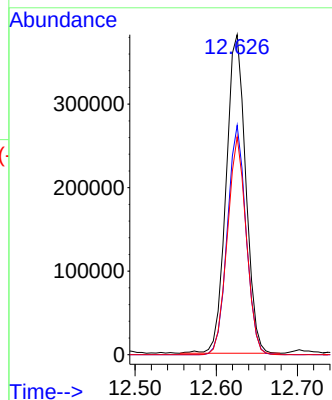
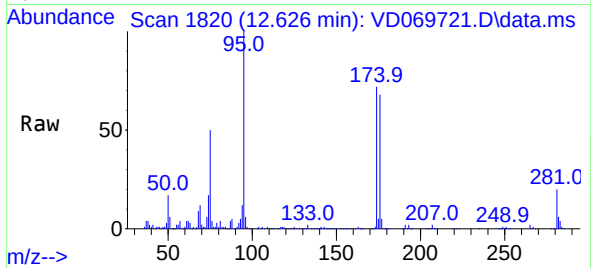




#62
4-Bromofluorobenzene
Concen: 67.671 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

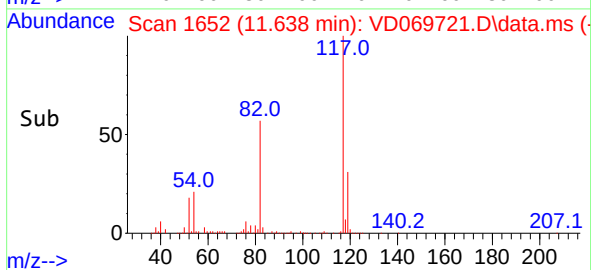
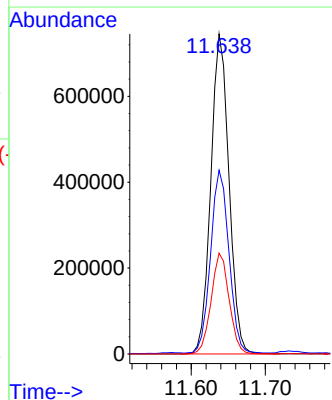
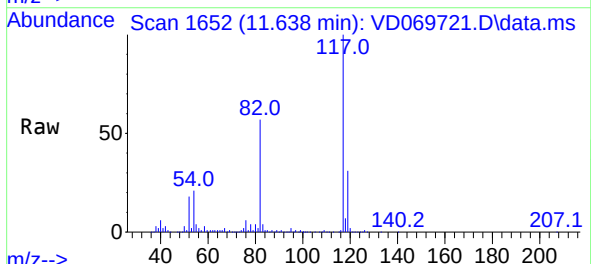
Instrument :
MSVOA_D
ClientSampleId :

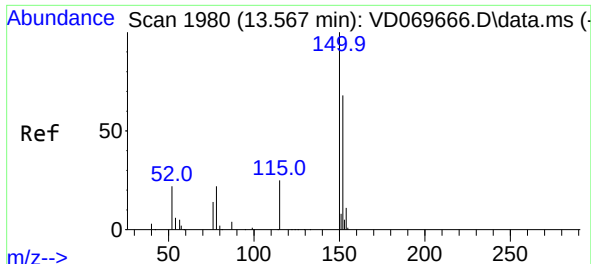
Tgt Ion: 95 Resp: 639031
Ion Ratio Lower Upper
95 100
174 68.5 0.0 140.0
176 65.7 0.0 136.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 117 Resp: 1267901
Ion Ratio Lower Upper
117 100
82 57.0 47.4 71.2
119 31.5 25.5 38.3

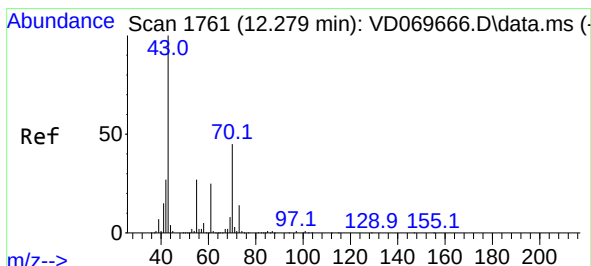
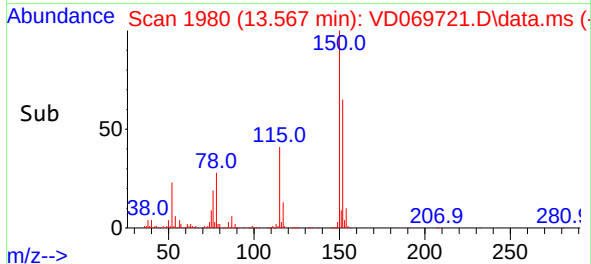
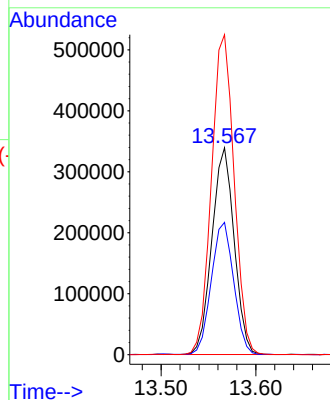
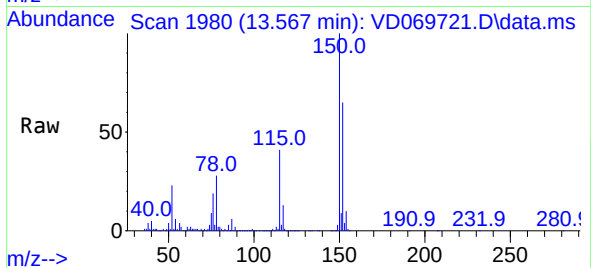




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

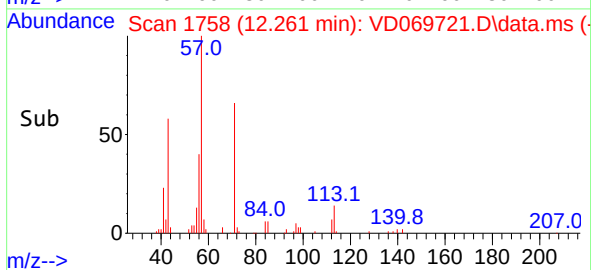
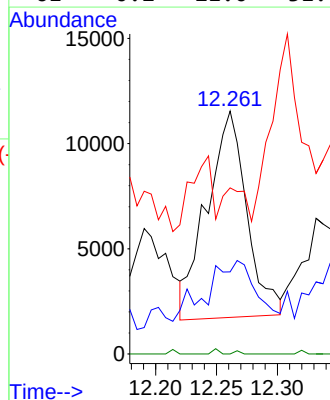
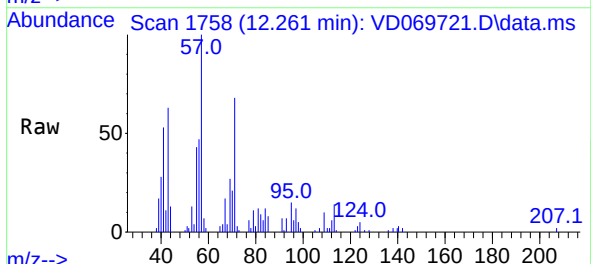
Instrument :
MSVOA_D
ClientSampleId :

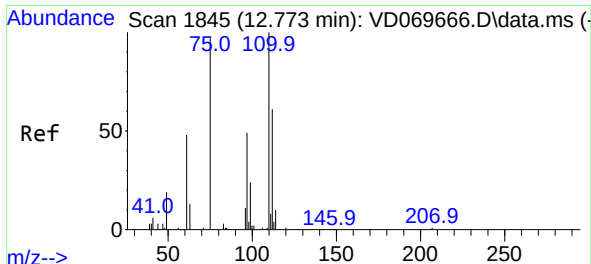
Tgt Ion:152 Resp: 556404
Ion Ratio Lower Upper
152 100
115 64.1 31.7 95.1
150 157.2 0.0 350.4



#74
N-ethyl acetate
Concen: 2.595 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 43 Resp: 22341
Ion Ratio Lower Upper
43 100
70 21.9 36.9 55.3#
55 0.0 22.4 33.6#
61 0.2 21.0 31.6#

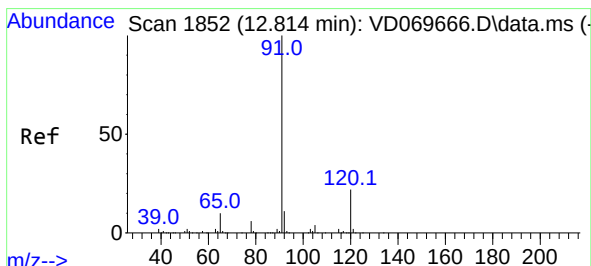
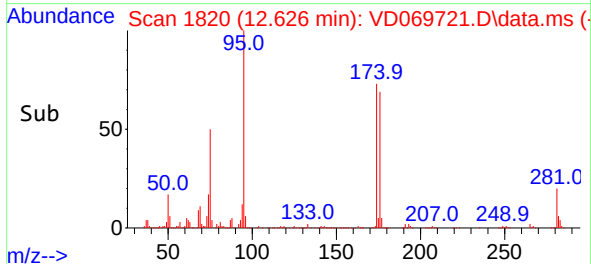
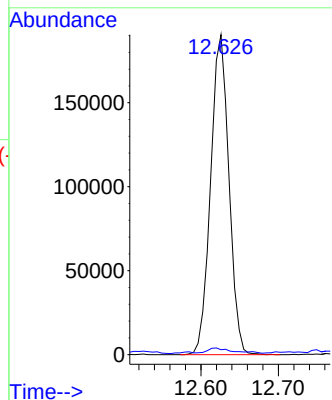
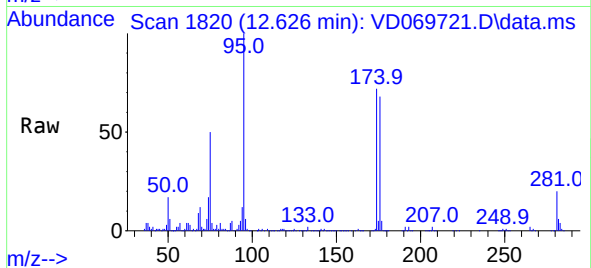




#76
1,2,3-Trichloropropane
Concen: 57.761 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

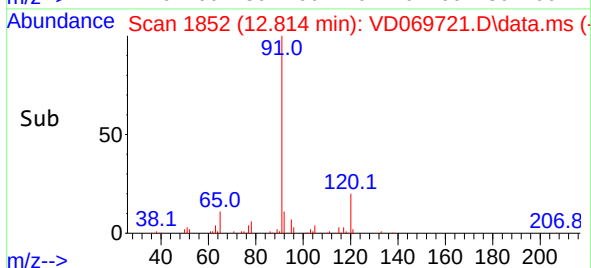
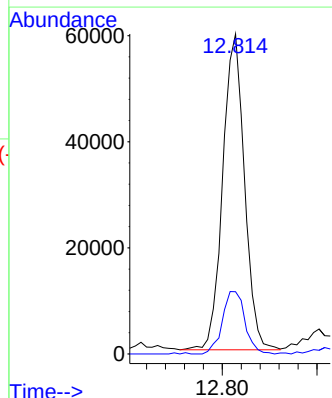
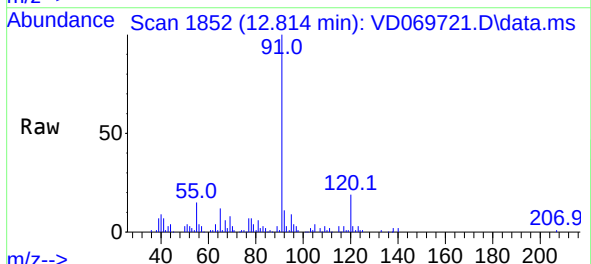
Instrument :
MSVOA_D
ClientSampleId :

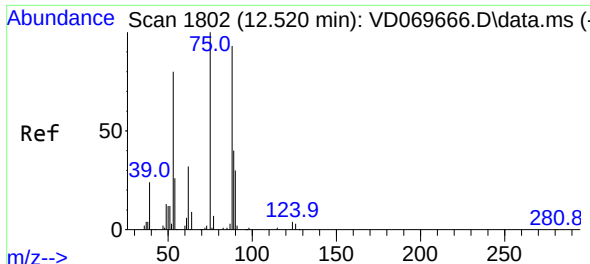
Tgt Ion: 75 Resp: 312215
Ion Ratio Lower Upper
75 100
77 2.2 0.0 0.0#



#78
n-propylbenzene
Concen: 1.891 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

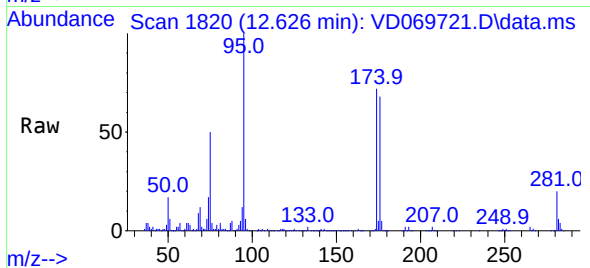
Tgt Ion: 91 Resp: 95004
Ion Ratio Lower Upper
91 100
120 20.5 10.8 32.4



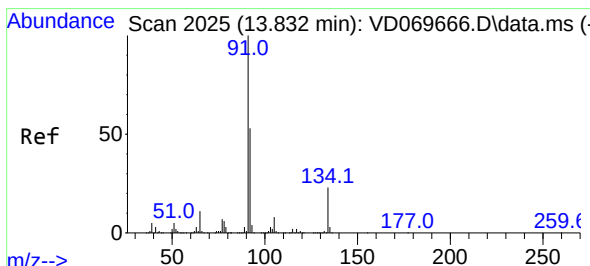
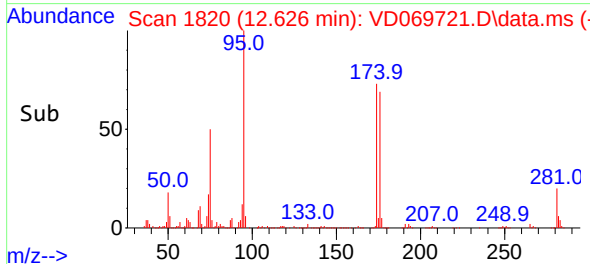
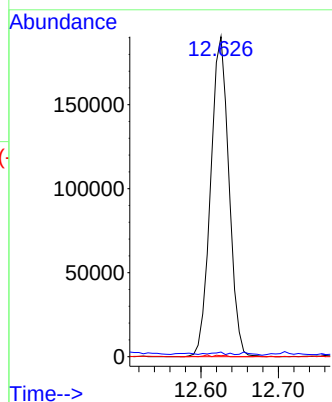


#81
trans-1,4-Dichloro-2-butene
Concen: 155.230 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Instrument :
MSVOA_D
ClientSampleId :

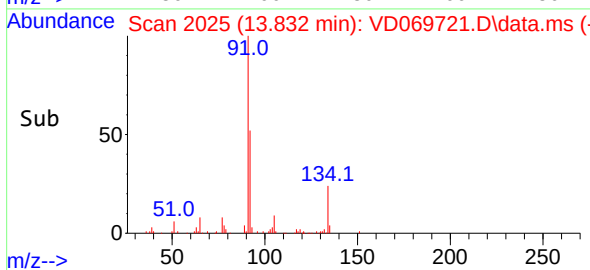
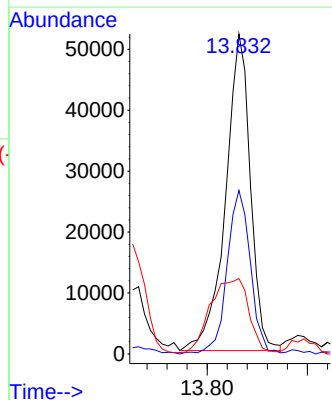
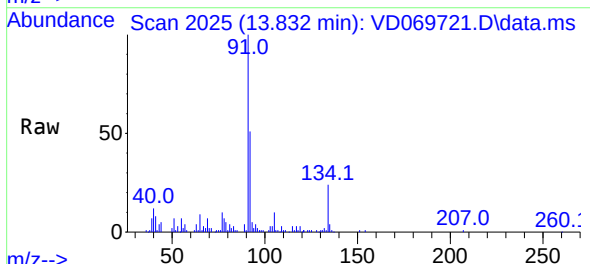


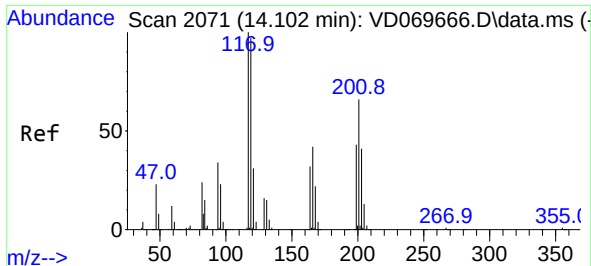
Tgt Ion: 75 Resp: 312215
Ion Ratio Lower Upper
75 100
53 0.6 70.6 106.0#
89 0.3 35.1 52.7#



#89
n-Butylbenzene
Concen: 2.577 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 91 Resp: 89520
Ion Ratio Lower Upper
91 100
92 48.5 26.6 79.8
134 37.2 11.7 35.1#

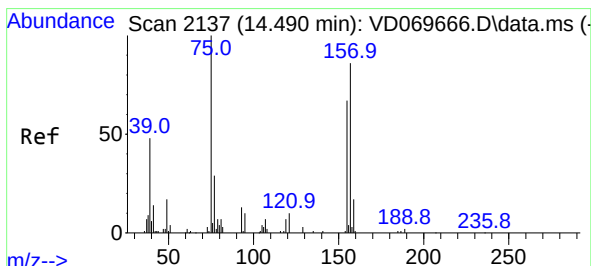
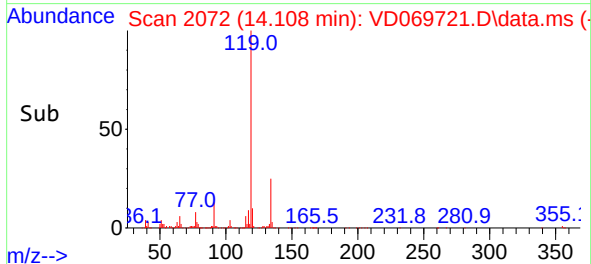
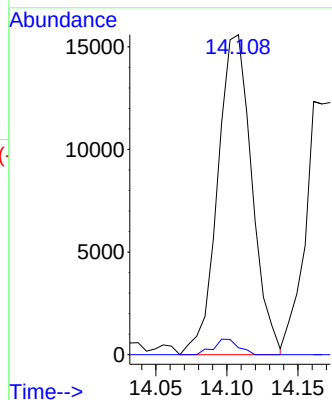
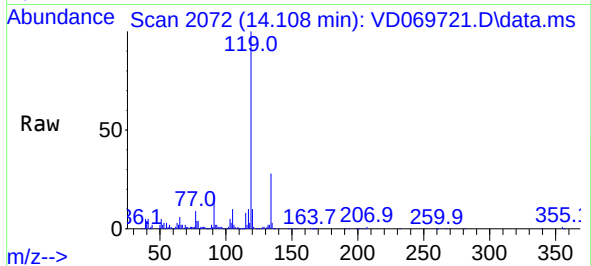




#90
Hexachloroethane
Concen: 3.656 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.006 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

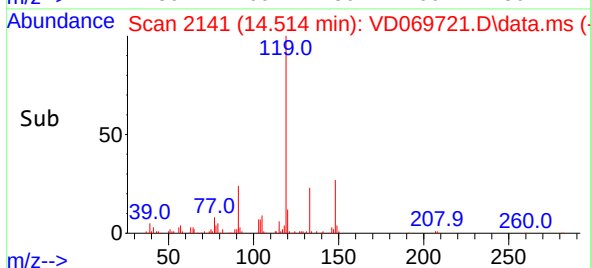
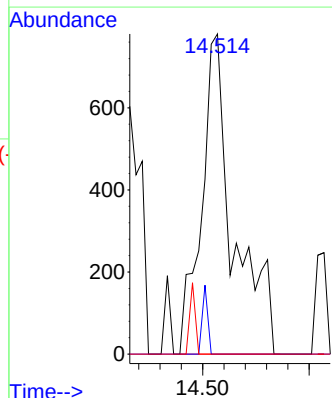
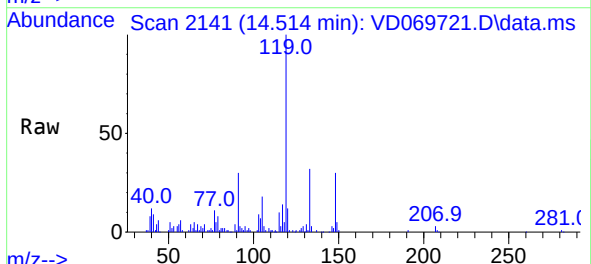
Instrument :
MSVOA_D
ClientSampleId :

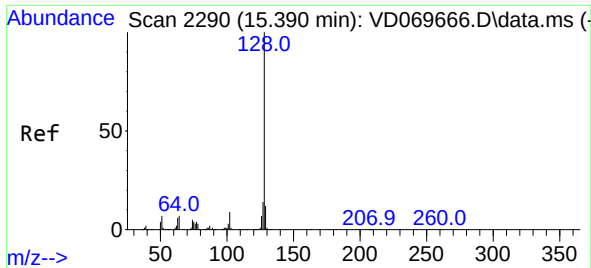
Tgt Ion:117 Resp: 26092
Ion Ratio Lower Upper
117 100
201 3.5 31.9 95.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.384 ug/l
RT: 14.514 min Scan# 2141
Delta R.T. 0.024 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Tgt Ion: 75 Resp: 1627
Ion Ratio Lower Upper
75 100
155 3.6 35.9 107.7#
157 0.0 45.6 136.9#





#95
Naphthalene
Concen: 2.879 ug/l
RT: 15.384 min Scan# 2289
Delta R.T. -0.006 min
Lab File: VD069721.D
Acq: 16 Jul 2021 13:09

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 12404
Ion Ratio Lower Upper
128 100
127 6.0 10.6 16.0#
129 0.0 8.8 13.2#

