

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD053122\
 Data File : VD073429.D
 Acq On : 31 May 2022 17:11
 Operator : VA/SY
 Sample : N3107-01
 Misc : 4.39G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 01 01:37:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051922S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 19 15:13:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.973	168	1152	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.861	114	2117	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	2956	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	2484	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.314	65	845	66.372	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 132.740%	
35) Dibromofluoromethane	7.903	113	555	39.730	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 79.460%	
50) Toluene-d8	10.332	98	1964	38.140	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 76.280%	
62) 4-Bromofluorobenzene	12.620	95	2272	125.722	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 251.440%#	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.985	85	954	82.876	ug/l	93
3) Chloromethane	2.209	50	686	52.703	ug/l #	80
4) Vinyl Chloride	2.338	62	317	26.633	ug/l #	43
5) Bromomethane	2.779	94	472	62.899	ug/l	85
6) Chloroethane	2.909	64	124	16.947	ug/l #	42
7) Trichlorofluoromethane	3.273	101	1200	57.018	ug/l #	70
10) Methyl Iodide	4.297	142	184	13.581	ug/l #	38
11) Tert butyl alcohol	5.203	59	122	61.764	ug/l #	74
14) Allyl chloride	4.715	41	184	9.846	ug/l #	22
16) Acetone	4.162	43	3074	1393.991	ug/l	95
17) Carbon Disulfide	4.397	76	822	21.418	ug/l #	74
18) Methyl Acetate	4.715	43	68	11.089	ug/l #	55
19) Methyl tert-butyl Ether	5.479	73	65	2.464	ug/l #	56
20) Methylene Chloride	4.962	84	8702	671.795	ug/l #	84
22) Diisopropyl ether	6.356	45	127	3.242	ug/l #	35
23) Vinyl Acetate	6.303	43	207	9.906	ug/l #	75
24) 1,1-Dichloroethane	6.279	63	126	5.011	ug/l #	82
25) 2-Butanone	7.197	43	4002	1240.444	ug/l #	52
26) 2,2-Dichloropropane	7.179	77	4474	208.634	ug/l #	54
29) Tetrahydrofuran	7.573	42	416	199.410	ug/l #	51
30) Chloroform	7.714	83	239	9.104	ug/l	95
31) Cyclohexane	7.979	56	738	33.171	ug/l #	72
32) 1,1,1-Trichloroethane	7.903	97	129	5.618	ug/l #	22
36) 1,1-Dichloropropene	8.297	75	5569	265.068	ug/l #	45
37) Ethyl Acetate	7.285	43	179	21.570	ug/l #	72
38) Carbon Tetrachloride	8.285	117	4517	212.096	ug/l #	37
39) Methylcyclohexane	9.350	83	2235	95.454	ug/l #	68
40) Benzene	8.350	78	1462	24.145	ug/l #	66
41) Methacrylonitrile	7.573	41	70	14.478	ug/l #	39
42) 1,2-Dichloroethane	8.414	62	55	3.264	ug/l #	76
43) Isopropyl Acetate	8.285	43	6066	395.461	ug/l #	31
44) Trichloroethene	9.114	130	67	4.149	ug/l	1
47) Bromodichloromethane	9.650	83	206	9.613	ug/l #	24
48) Methyl methacrylate	9.420	41	88	11.403	ug/l #	19
51) 4-Methyl-2-Pentanone	10.220	43	1380	173.219	ug/l	93
52) Toluene	10.385	92	710	18.556	ug/l	85

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD053122\
 Data File : VD073429.D
 Acq On : 31 May 2022 17:11
 Operator : VA/SY
 Sample : N3107-01
 Misc : 4.39G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

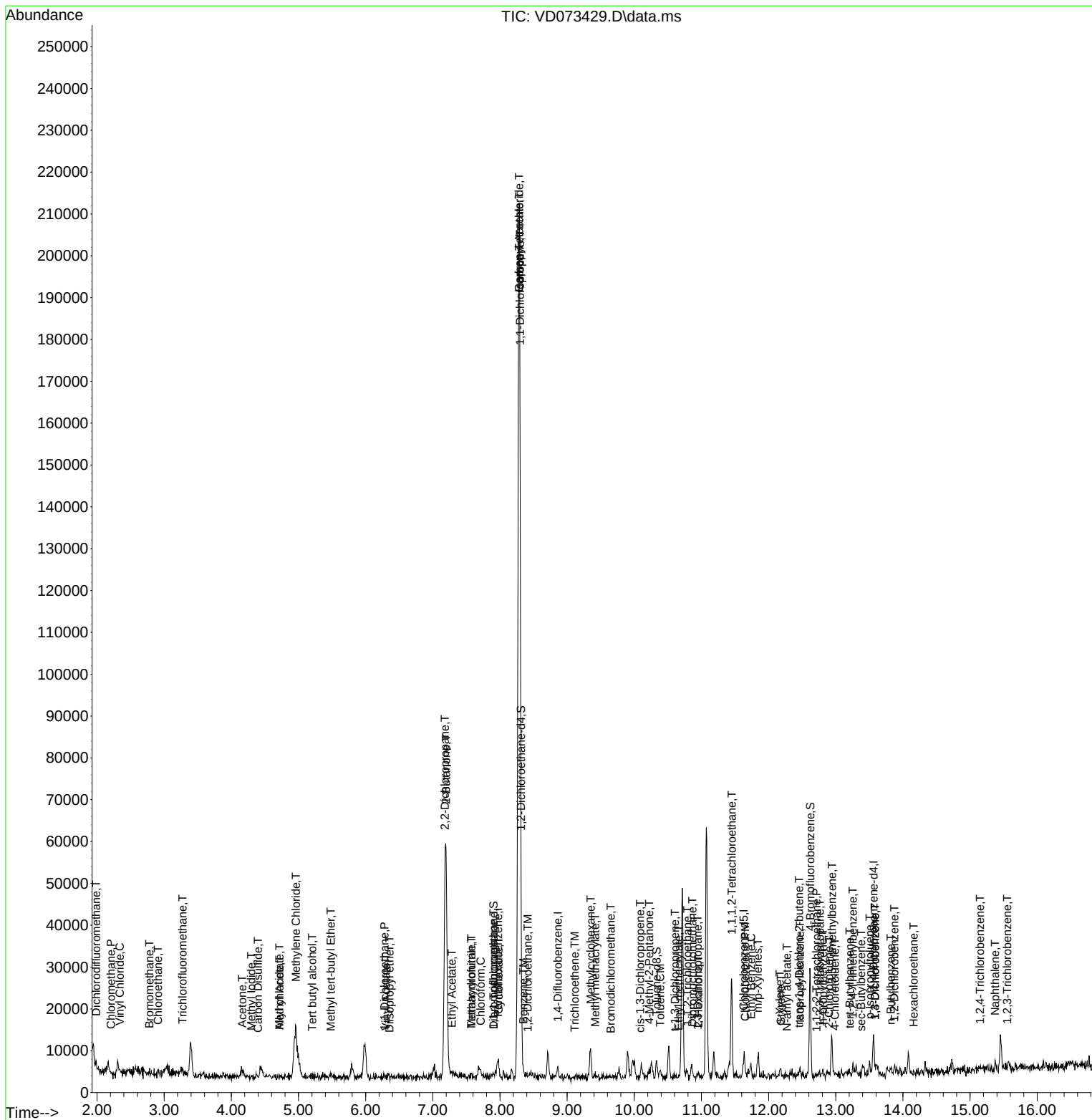
Instrument :
 MSVOA_D
 ClientSampleId :

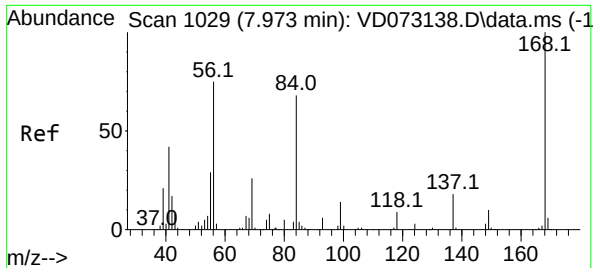
Quant Time: Jun 01 01:37:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051922S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 19 15:13:42 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) t-1,3-Dichloropropene	10.608	75	82	4.236	ug/l #	44
54) cis-1,3-Dichloropropene	10.085	75	67	2.892	ug/l #	29
55) 1,1,2-Trichloroethane	10.791	97	127	11.214	ug/l #	1
56) Ethyl methacrylate	10.661	69	53	4.209	ug/l #	33
57) 1,3-Dichloropropane	10.944	76	55	2.894	ug/l #	42
59) 2-Hexanone	10.955	43	381	72.538	ug/l #	27
60) Dibromochloromethane	10.867	129	207	14.658	ug/l #	10
65) Chlorobenzene	11.649	112	279	4.601	ug/l #	42
66) 1,1,1,2-Tetrachloroethane	11.450	131	216	9.604	ug/l #	8
67) Ethyl Benzene	11.738	91	2328	21.869	ug/l #	87
68) m/p-Xylenes	11.838	106	1851	44.755	ug/l #	64
69) o-Xylene	12.167	106	540	14.213	ug/l #	62
70) Styrene	12.185	104	746	11.412	ug/l #	47
73) Isopropylbenzene	12.467	105	836	4.721	ug/l #	75
74) N-amyl acetate	12.273	43	119	3.080	ug/l #	32
75) 1,1,2,2-Tetrachloroethane	12.714	83	143	4.379	ug/l #	25
76) 1,2,3-Trichloropropane	12.761	75	68	2.790	ug/l #	100
78) n-propylbenzene	12.808	91	1603	7.211	ug/l #	64
79) 2-Chlorotoluene	12.896	91	526	4.098	ug/l #	93
80) 1,3,5-Trimethylbenzene	12.944	105	832	5.546	ug/l #	82
81) trans-1,4-Dichloro-2-b...	12.455	75	116	11.426	ug/l #	7
82) 4-Chlorotoluene	12.985	91	820	6.095	ug/l #	74
83) tert-Butylbenzene	13.208	119	466	3.686	ug/l #	58
84) 1,2,4-Trimethylbenzene	13.255	105	1902	12.835	ug/l #	84
85) sec-Butylbenzene	13.379	105	915	4.740	ug/l #	71
86) p-Isopropyltoluene	13.508	119	771	4.900	ug/l #	75
87) 1,3-Dichlorobenzene	13.585	146	733	8.724	ug/l #	81
88) 1,4-Dichlorobenzene	13.585	146	733	8.642	ug/l #	81
89) n-Butylbenzene	13.820	91	1079	7.196	ug/l #	83
90) Hexachloroethane	14.161	117	61	1.873	ug/l #	17
91) 1,2-Dichlorobenzene	13.873	146	366	5.034	ug/l #	29
93) 1,2,4-Trichlorobenzene	15.149	180	523	12.672	ug/l #	59
95) Naphthalene	15.373	128	2081	27.329	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.555	180	190	5.193	ug/l #	12

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

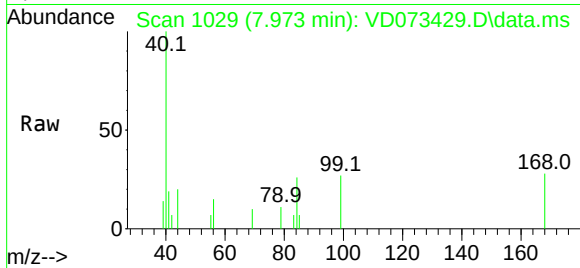
Quant Time: Jun 01 01:37:27 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051922S.M
Quant Title : SW846 8260
QLast Update : Thu May 19 15:13:42 2022
Response via : Initial Calibration



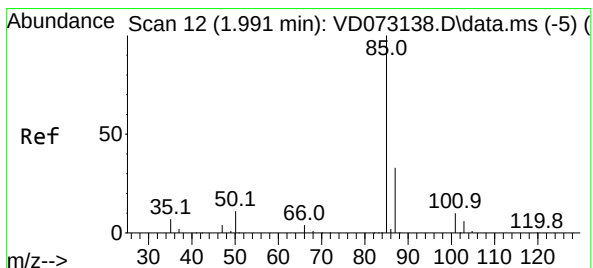
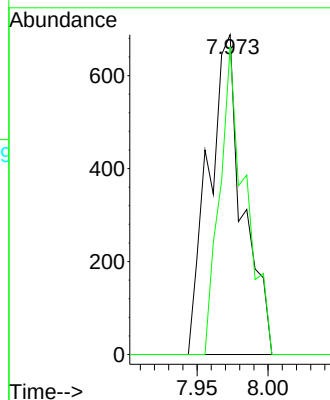
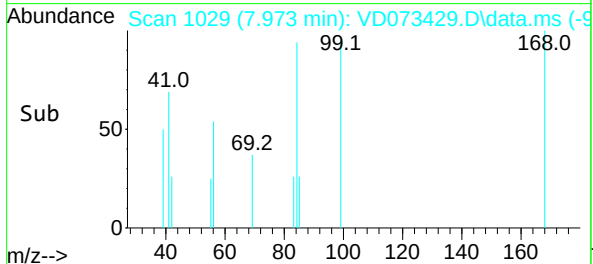


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

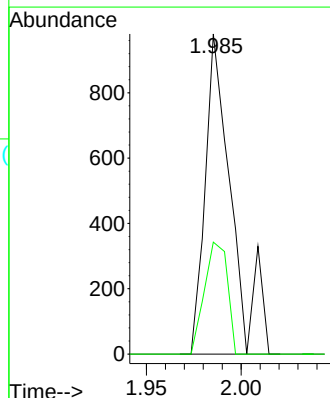
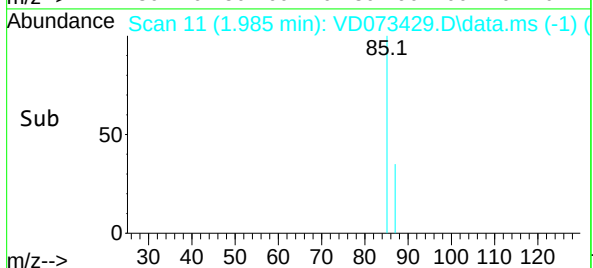
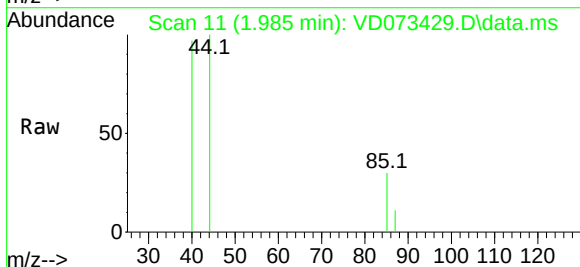


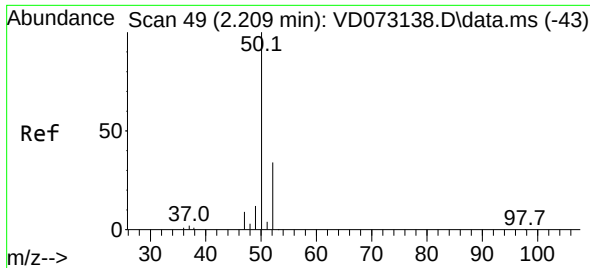
Tgt Ion:168 Resp: 1152
Ion Ratio Lower Upper
168 100
99 96.2 49.8 74.6#



#2
Dichlorodifluoromethane
Concen: 82.876 ug/l
RT: 1.985 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

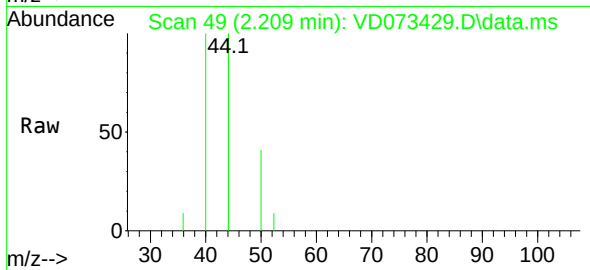
Tgt Ion: 85 Resp: 954
Ion Ratio Lower Upper
85 100
87 35.0 15.7 47.0



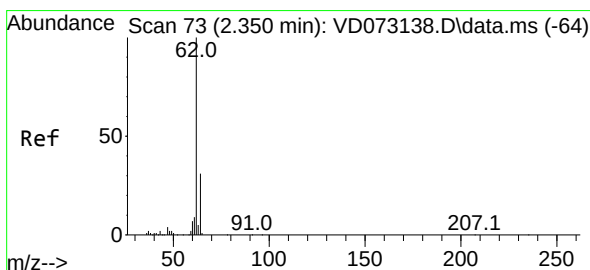
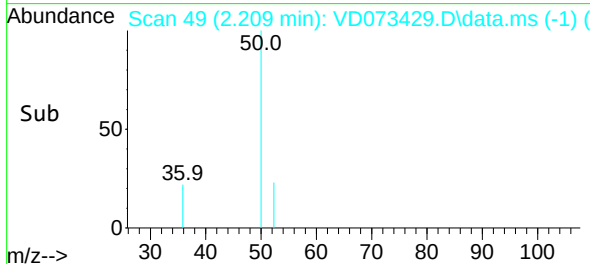
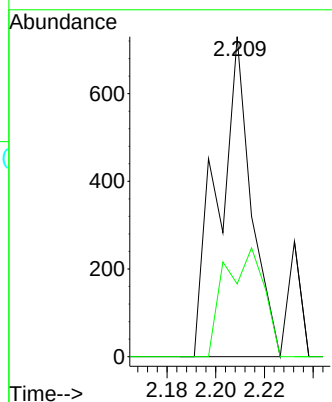


#3
Chloromethane
Concen: 52.703 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

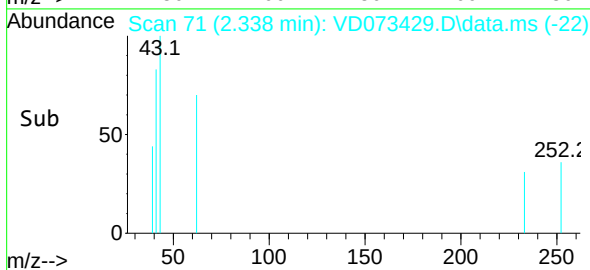
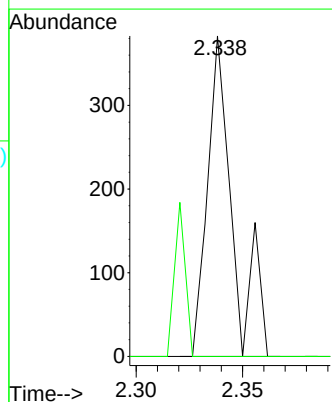
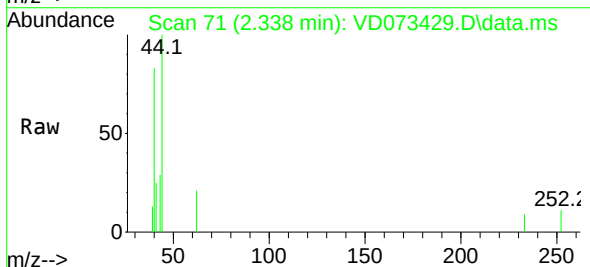


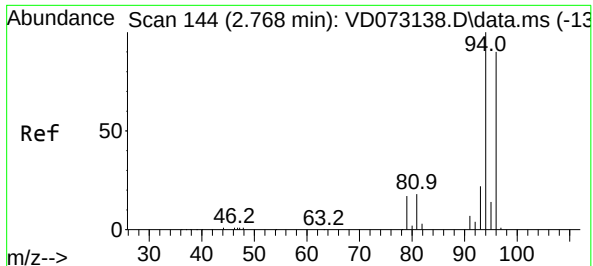
Tgt Ion: 50 Resp: 686
Ion Ratio Lower Upper
50 100
52 22.7 27.4 41.0#



#4
Vinyl Chloride
Concen: 26.633 ug/l
RT: 2.338 min Scan# 71
Delta R.T. -0.012 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion: 62 Resp: 317
Ion Ratio Lower Upper
62 100
64 0.0 25.4 38.0#

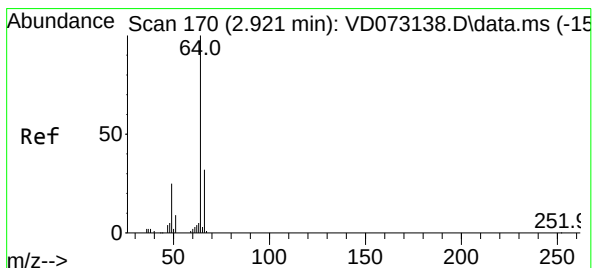
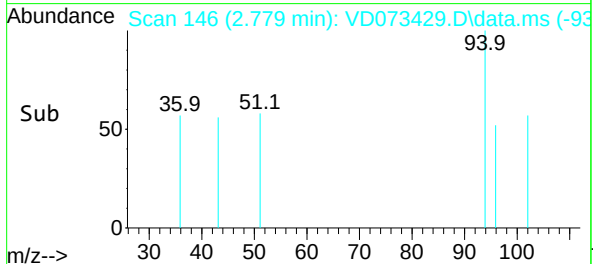
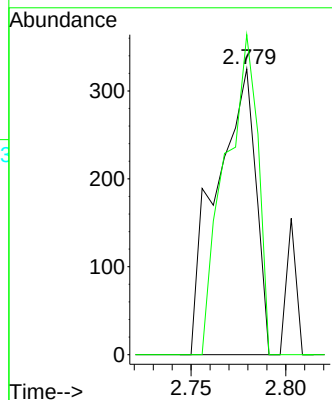
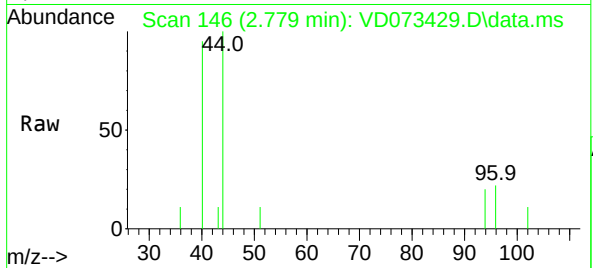




#5
Bromomethane
Concen: 62.899 ug/l
RT: 2.779 min Scan# 144
Delta R.T. 0.011 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

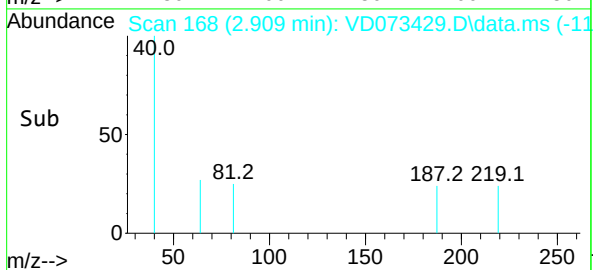
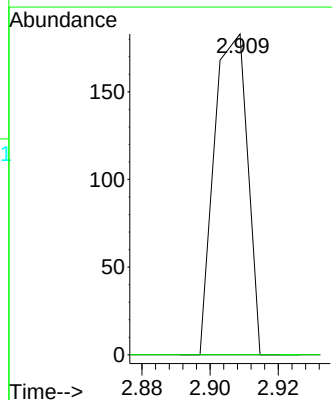
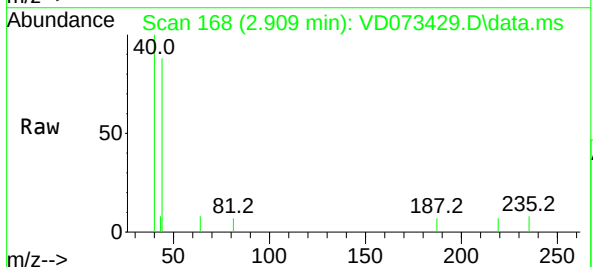
Instrument :
MSVOA_D
ClientSampleId :

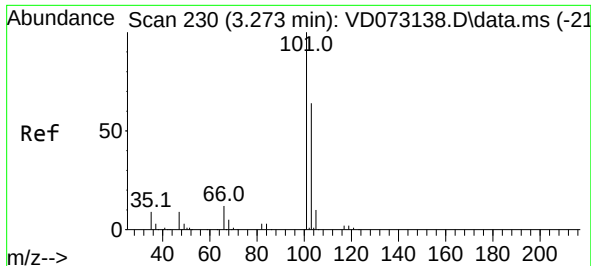
Tgt Ion: 94 Resp: 472
Ion Ratio Lower Upper
94 100
96 112.0 77.6 116.4



#6
Chloroethane
Concen: 16.947 ug/l
RT: 2.909 min Scan# 168
Delta R.T. -0.012 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

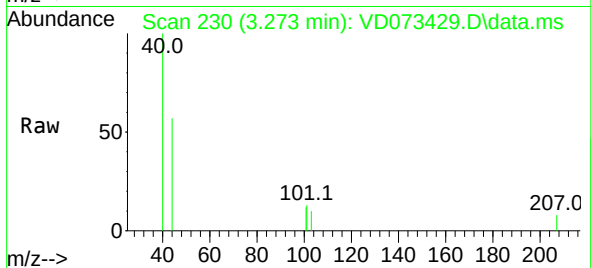
Tgt Ion: 64 Resp: 124
Ion Ratio Lower Upper
64 100
66 0.0 25.9 38.9#



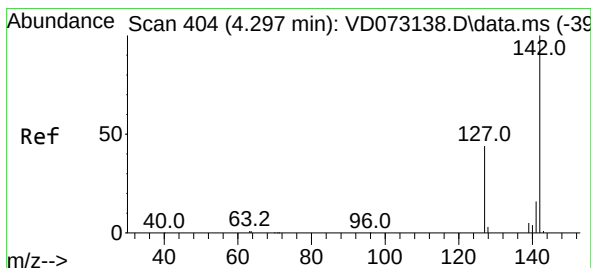
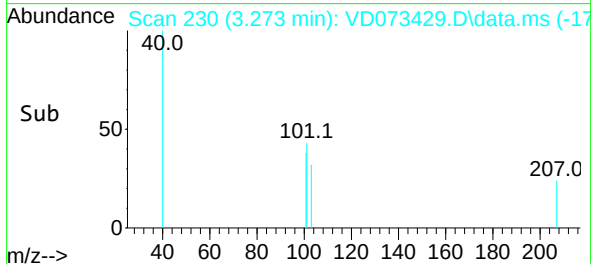
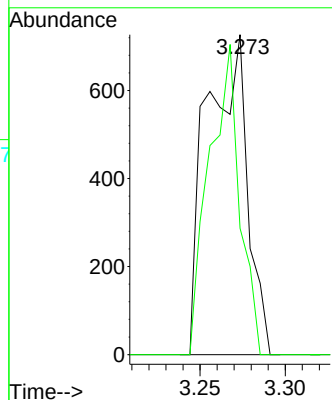


#7
Trichlorofluoromethane
Concen: 57.018 ug/l
RT: 3.273 min Scan# 21
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

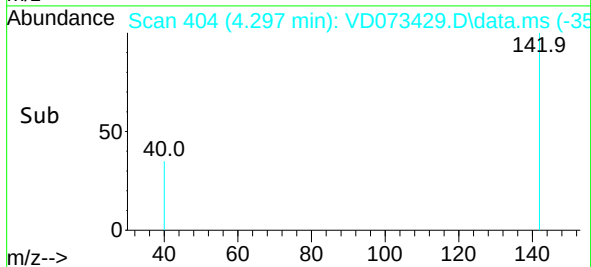
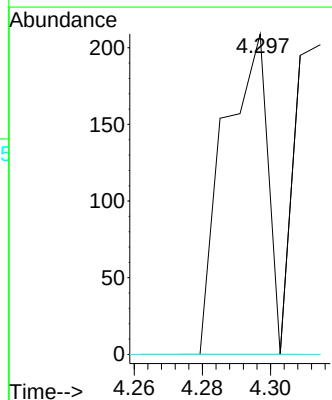
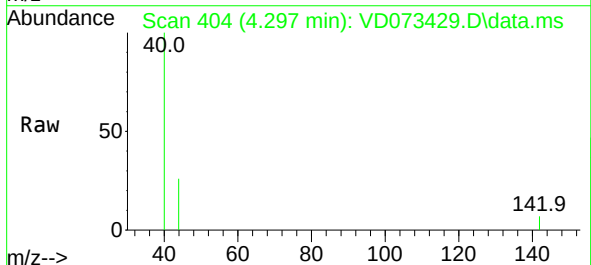


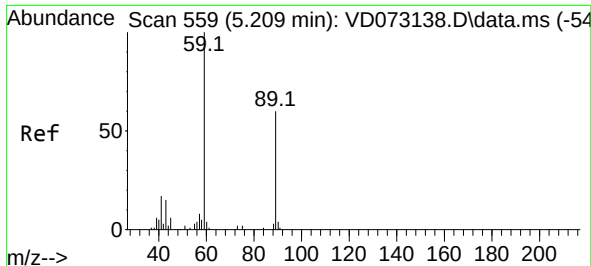
Tgt Ion:101 Resp: 1200
Ion Ratio Lower Upper
101 100
103 39.5 50.1 75.1#



#10
Methyl Iodide
Concen: 13.581 ug/l
RT: 4.297 min Scan# 404
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion:142 Resp: 184
Ion Ratio Lower Upper
142 100
127 0.0 37.3 55.9#
141 0.0 11.7 17.5#





#11

Tert butyl alcohol

Concen: 61.764 ug/l

RT: 5.203 min Scan# 51

Delta R.T. -0.006 min

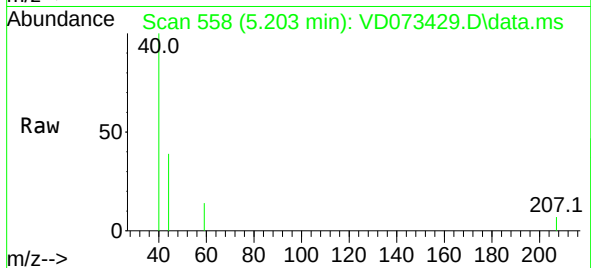
Lab File: VD073429.D

Acq: 31 May 2022 17:11

Instrument :

MSVOA_D

ClientSampleId :

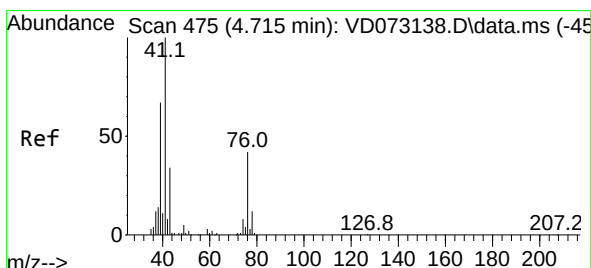
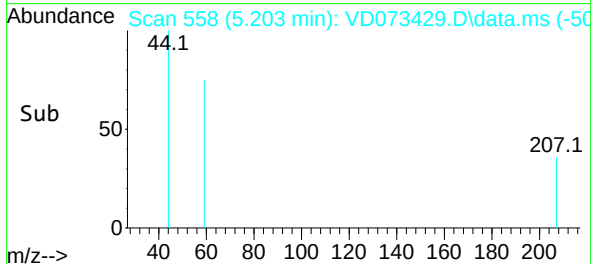
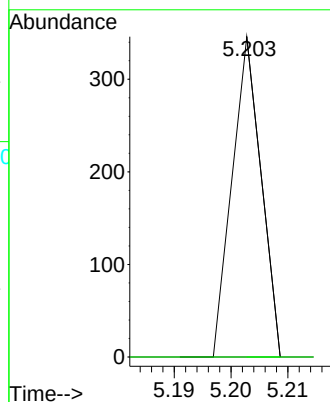


Tgt Ion: 59 Resp: 122

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#14

Allyl chloride

Concen: 9.846 ug/l

RT: 4.715 min Scan# 475

Delta R.T. -0.000 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

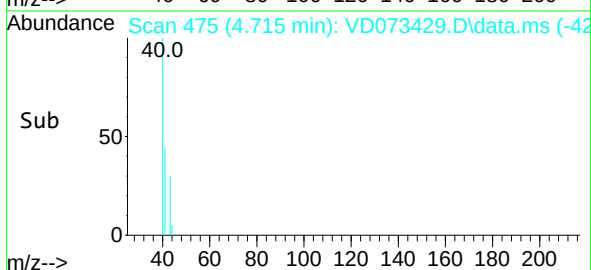
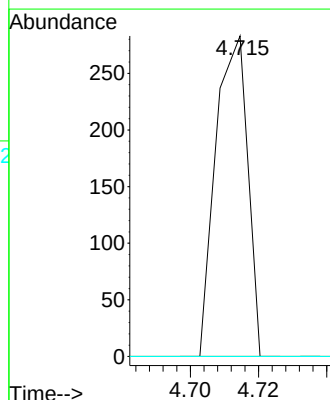
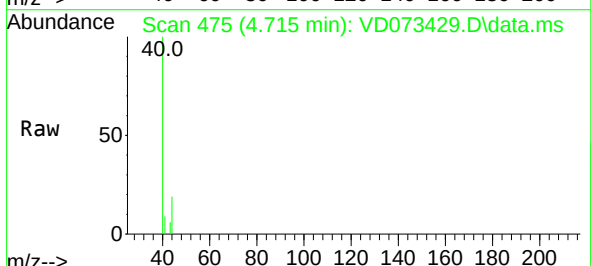
Tgt Ion: 41 Resp: 184

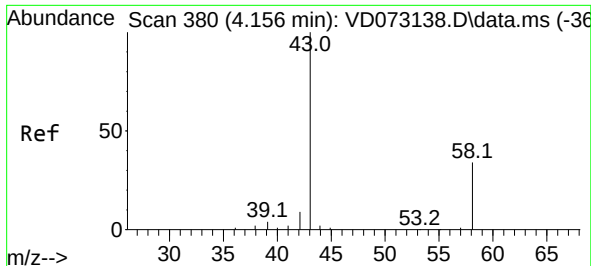
Ion Ratio Lower Upper

41 100

39 0.0 59.3 88.9#

76 0.0 25.7 38.5#

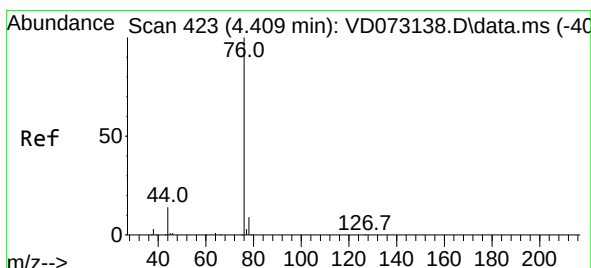
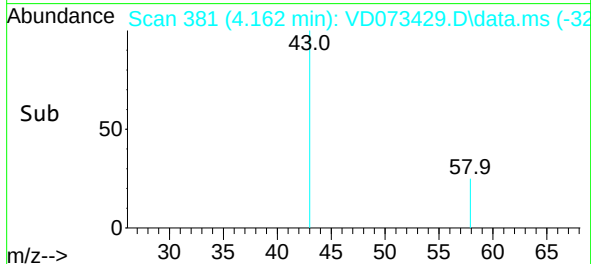
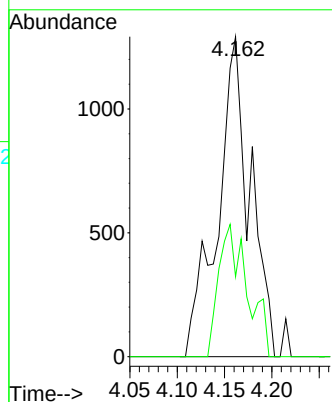
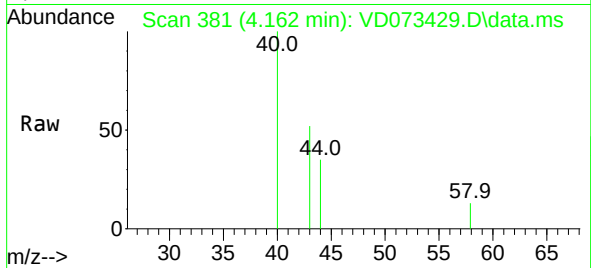




#16
Acetone
Concen: 1393.991 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

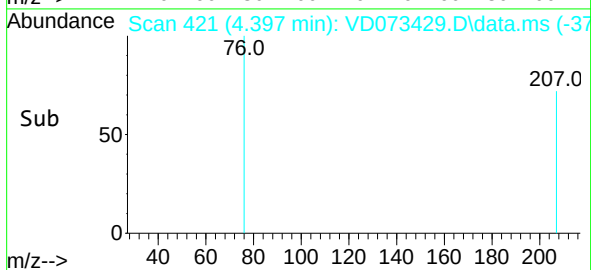
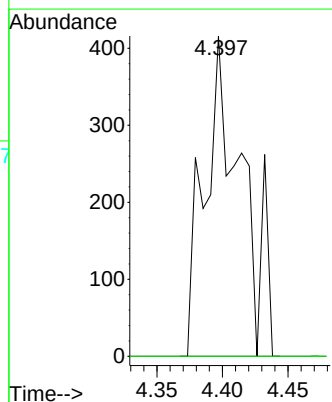
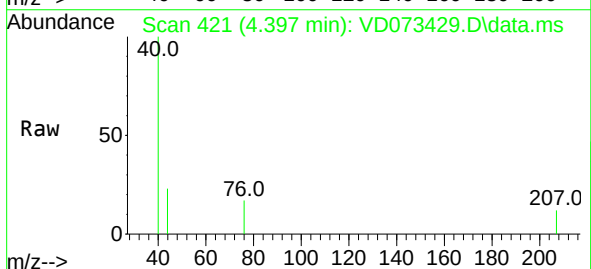
Instrument :
MSVOA_D
ClientSampleId :

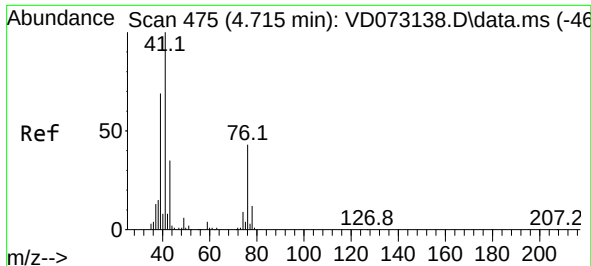
Tgt Ion: 43 Resp: 3074
Ion Ratio Lower Upper
43 100
58 25.0 22.1 33.1



#17
Carbon Disulfide
Concen: 21.418 ug/l
RT: 4.397 min Scan# 421
Delta R.T. -0.012 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

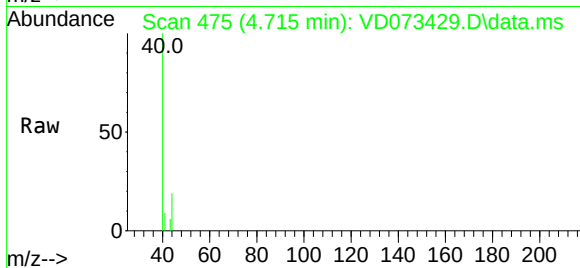
Tgt Ion: 76 Resp: 822
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



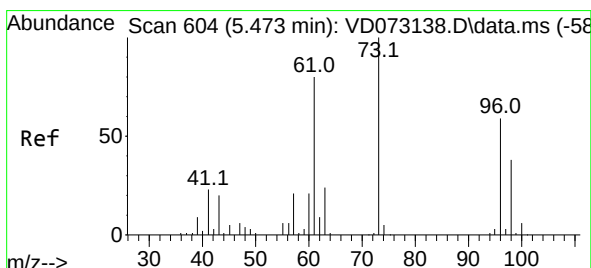
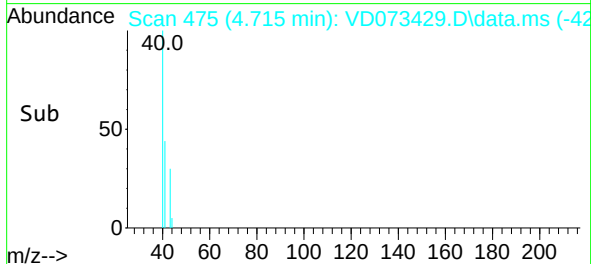
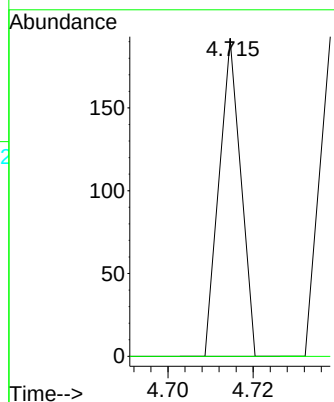


#18
Methyl Acetate
Concen: 11.089 ug/l
RT: 4.715 min Scan# 41
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

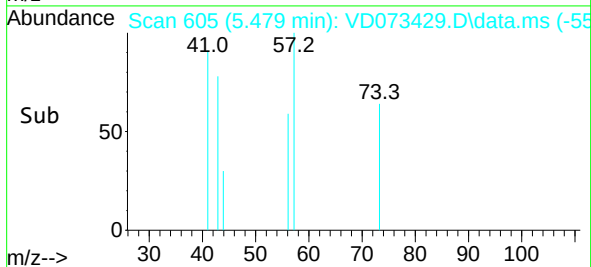
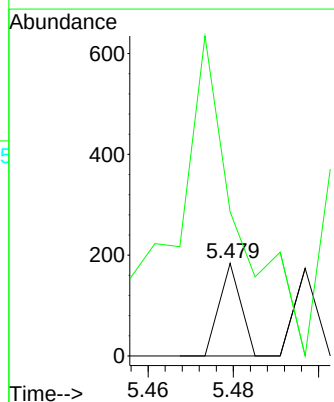
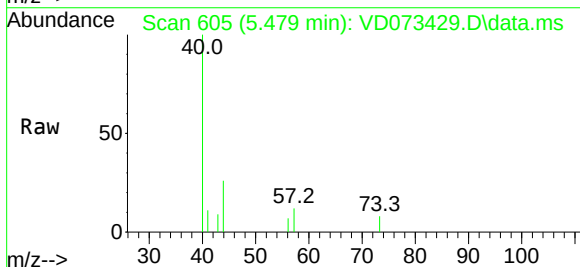


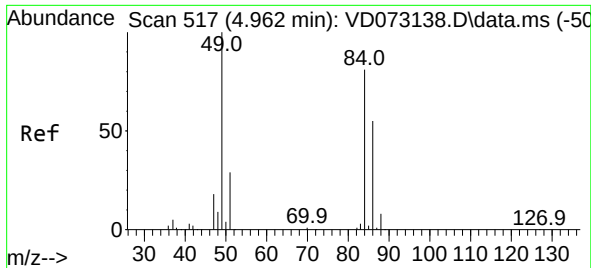
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: 2.464 ug/l
RT: 5.479 min Scan# 605
Delta R.T. 0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

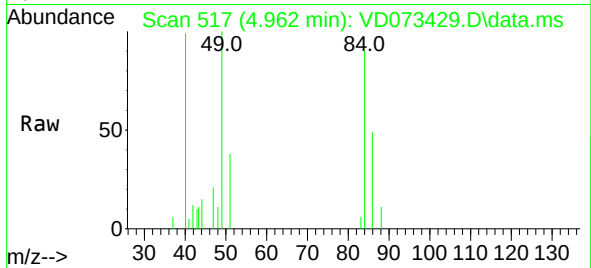
Tgt Ion: 73 Resp: 65
Ion Ratio Lower Upper
73 100
57 43.5 18.0 27.0#





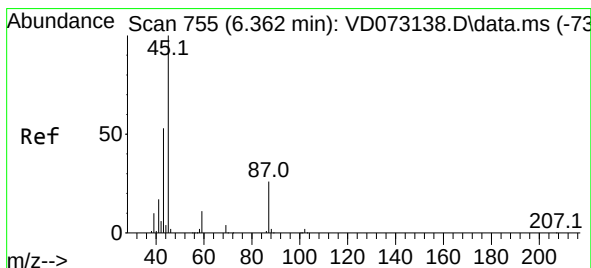
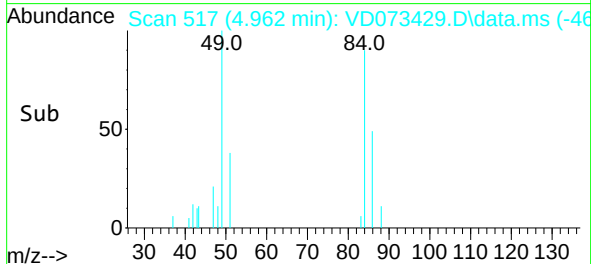
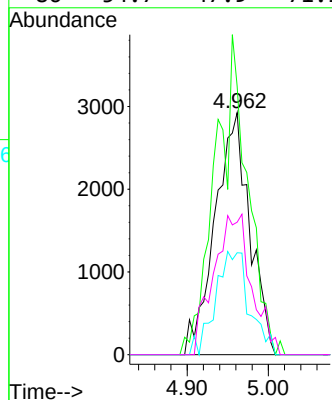
#20
Methylene Chloride
Concen: 671.795 ug/l
RT: 4.962 min Scan# 517
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 8702

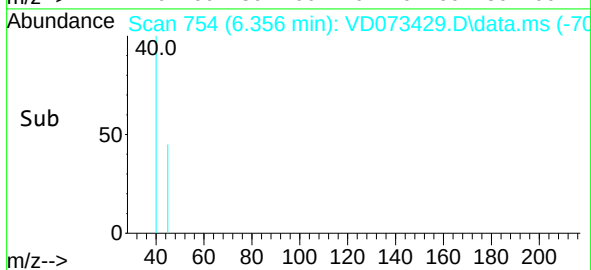
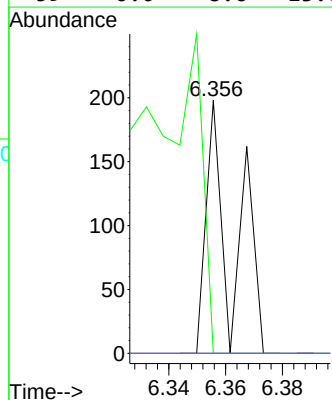
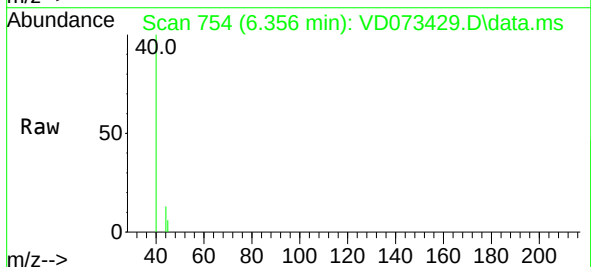
Ion	Ratio	Lower	Upper
84	100		
49	110.8	112.8	169.2#
51	42.1	32.6	48.8
86	54.7	47.9	71.9

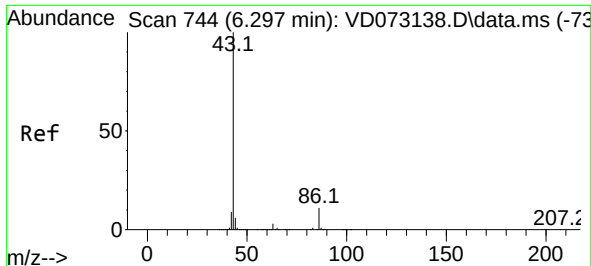


#22
Diisopropyl ether
Concen: 3.242 ug/l
RT: 6.356 min Scan# 754
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion: 45 Resp: 127

Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.6	70.0#
87	0.0	18.4	27.6#
59	0.0	8.6	13.0#

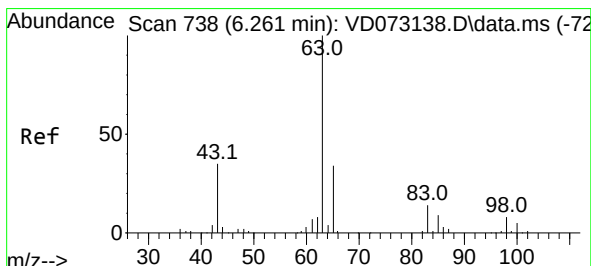
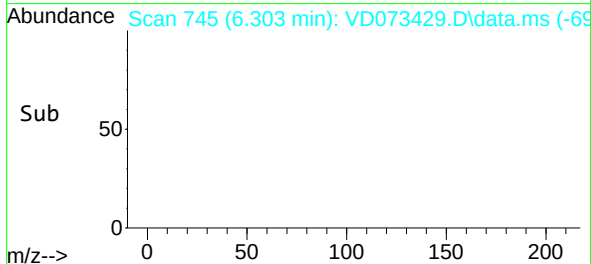
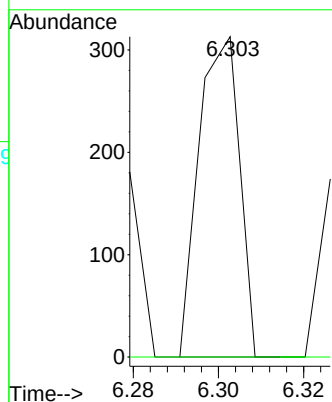
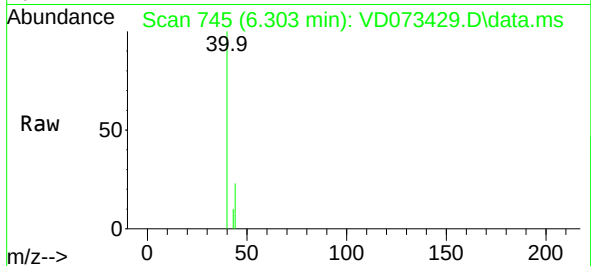




#23
 Vinyl Acetate
 Concen: 9.906 ug/l
 RT: 6.303 min Scan# 741
 Delta R.T. 0.006 min
 Lab File: VD073429.D
 Acq: 31 May 2022 17:11

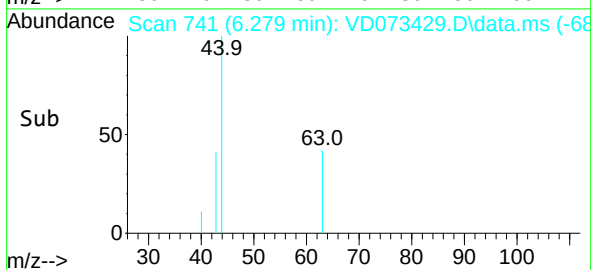
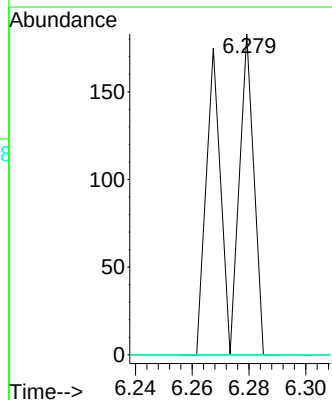
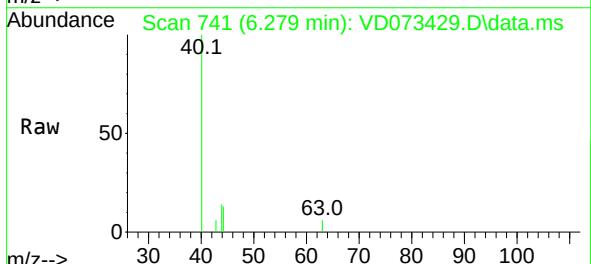
Instrument :
 MSVOA_D
 ClientSampleId :

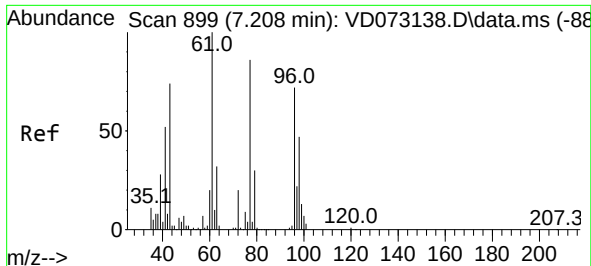
Tgt Ion: 43 Resp: 207
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#24
 1,1-Dichloroethane
 Concen: 5.011 ug/l
 RT: 6.279 min Scan# 741
 Delta R.T. 0.018 min
 Lab File: VD073429.D
 Acq: 31 May 2022 17:11

Tgt Ion: 63 Resp: 126
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.6 10.9#
 100 0.0 2.1 6.5#





#25

2-Butanone

Concen: 1240.444 ug/l

RT: 7.197 min Scan# 89

Delta R.T. -0.011 min

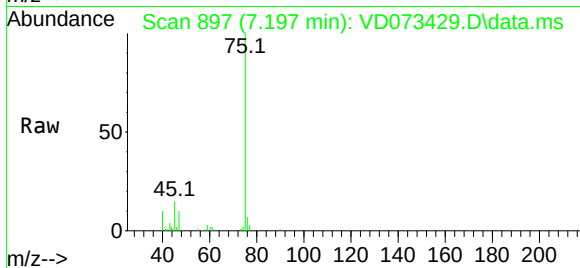
Lab File: VD073429.D

Acq: 31 May 2022 17:11

Instrument :

MSVOA_D

ClientSampleId :

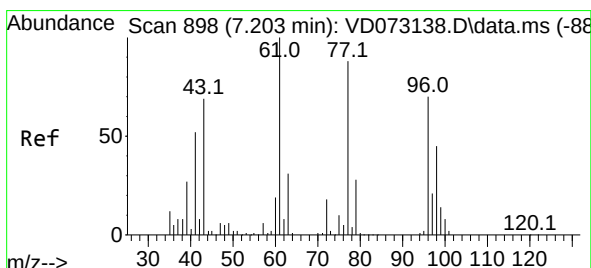
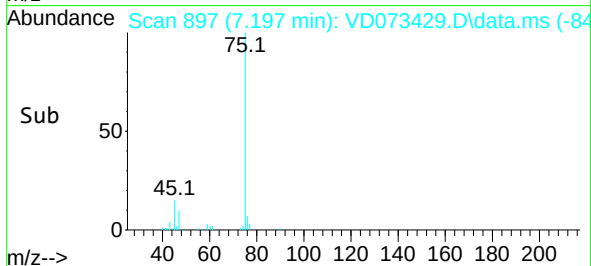
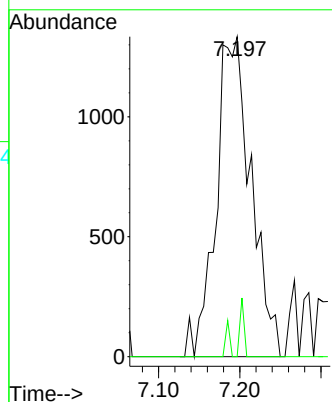


Tgt Ion: 43 Resp: 4002

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



#26

2,2-Dichloropropane

Concen: 208.634 ug/l

RT: 7.179 min Scan# 894

Delta R.T. -0.024 min

Lab File: VD073429.D

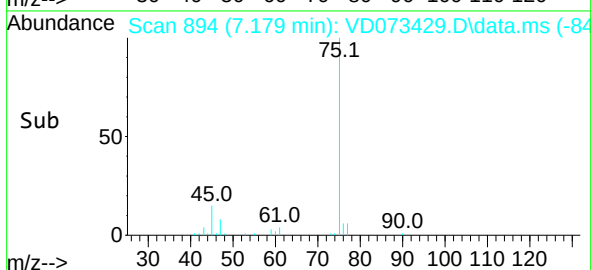
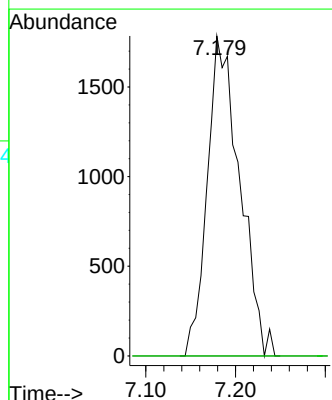
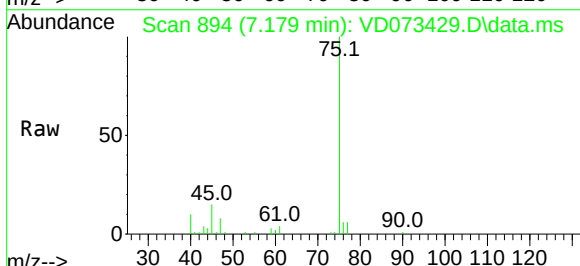
Acq: 31 May 2022 17:11

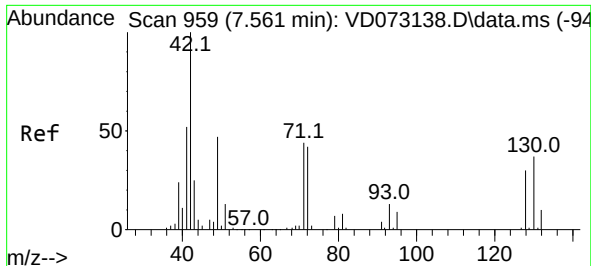
Tgt Ion: 77 Resp: 4474

Ion Ratio Lower Upper

77 100

97 0.0 10.8 32.4#





#29

Tetrahydrofuran

Concen: 199.410 ug/l

RT: 7.573 min Scan# 9

Delta R.T. 0.012 min

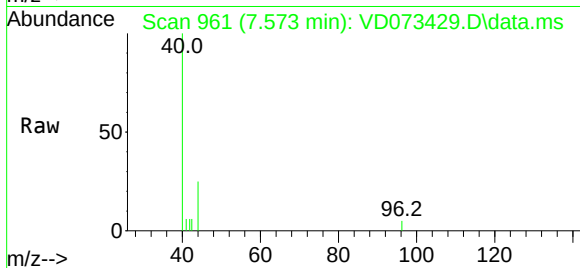
Lab File: VD073429.D

Acq: 31 May 2022 17:11

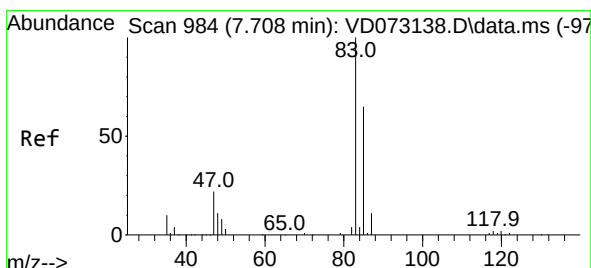
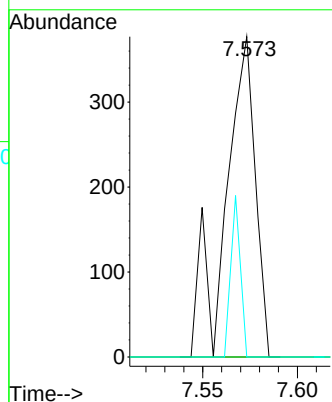
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	416
Ion Ratio	Lower	Upper	
42	100		
72	0.0	30.7	46.1#
71	16.1	28.6	43.0#



#30

Chloroform

Concen: 9.104 ug/l

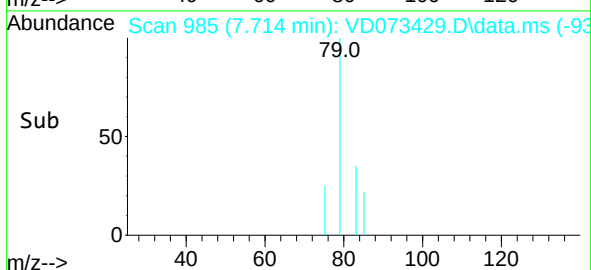
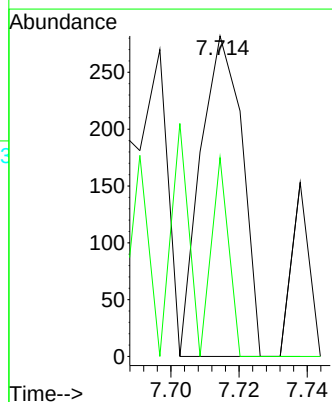
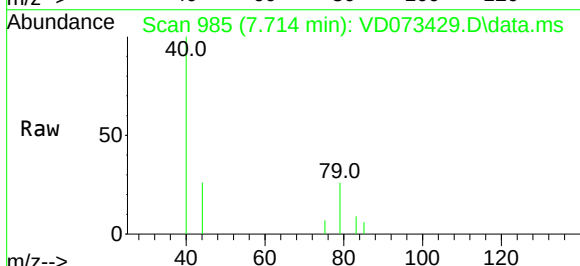
RT: 7.714 min Scan# 985

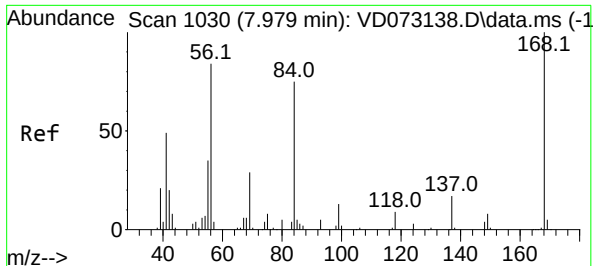
Delta R.T. 0.006 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

Tgt Ion:	83	Resp:	239
Ion Ratio	Lower	Upper	
83	100		
85	62.1	52.7	79.1





#31

Cyclohexane

Concen: 33.171 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

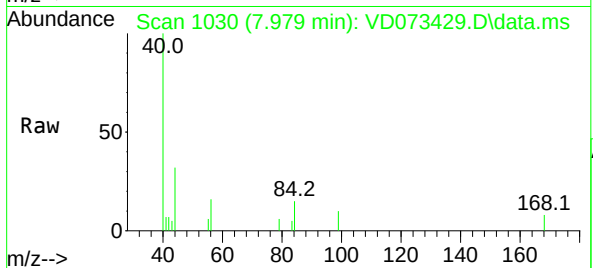
Lab File: VD073429.D

Acq: 31 May 2022 17:11

Instrument :

MSVOA_D

ClientSampleId :



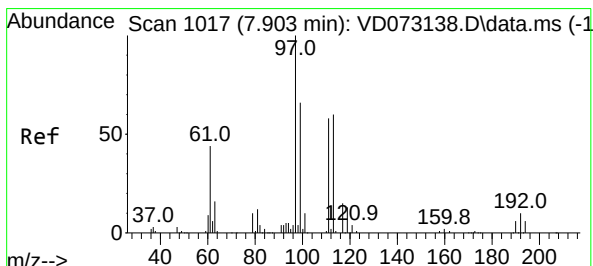
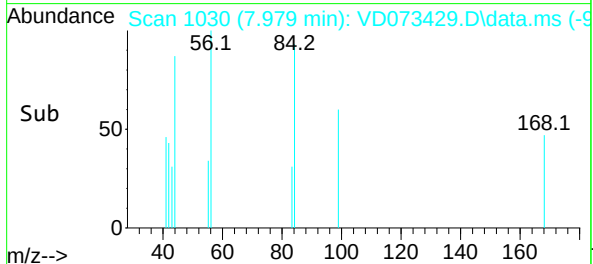
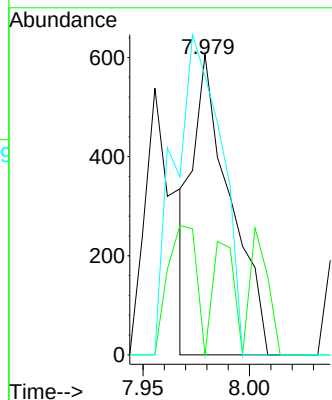
Tgt Ion: 56 Resp: 738

Ion Ratio Lower Upper

56 100

69 0.0 25.4 38.2#

84 92.9 63.0 94.4



#32

1,1,1-Trichloroethane

Concen: 5.618 ug/l

RT: 7.903 min Scan# 1017

Delta R.T. -0.000 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

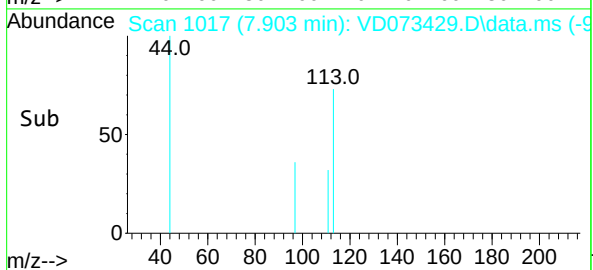
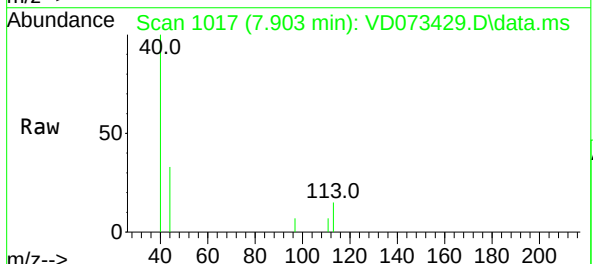
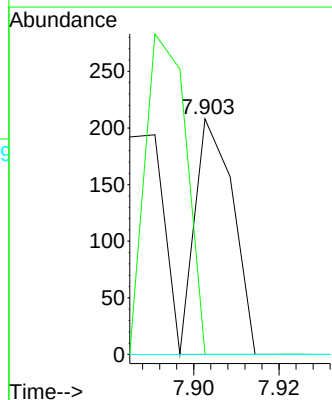
Tgt Ion: 97 Resp: 129

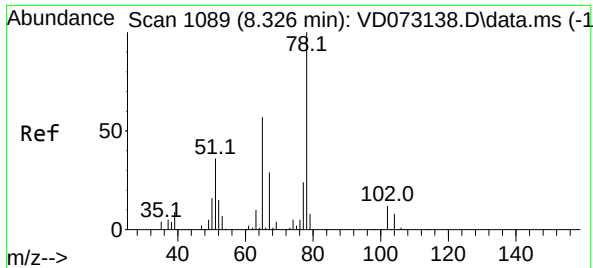
Ion Ratio Lower Upper

97 100

99 0.0 52.4 78.6#

61 0.0 38.0 57.0#





#33

1,2-Dichloroethane-d4

Concen: 66.372 ug/l

RT: 8.314 min Scan# 110

Delta R.T. -0.012 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

Instrument :

MSVOA_D

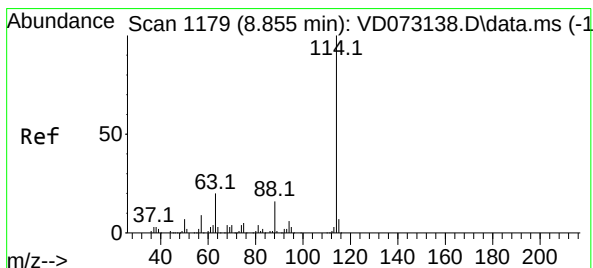
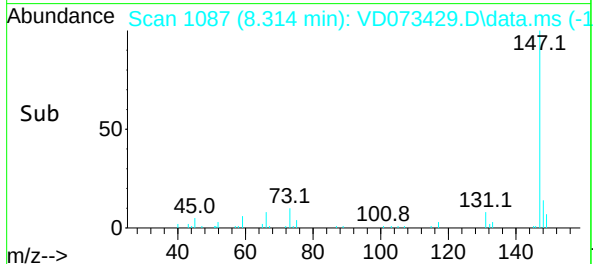
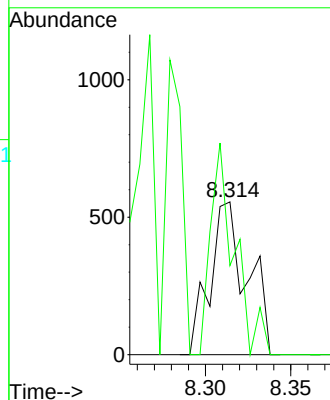
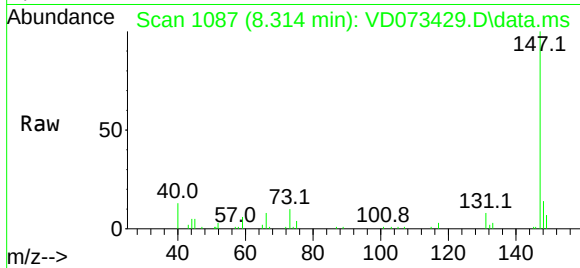
ClientSampleId :

Tgt Ion: 65 Resp: 845

Ion Ratio Lower Upper

65 100

67 89.1 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

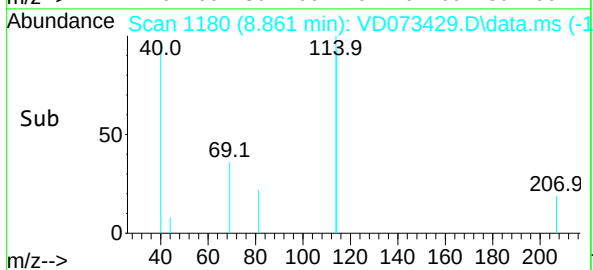
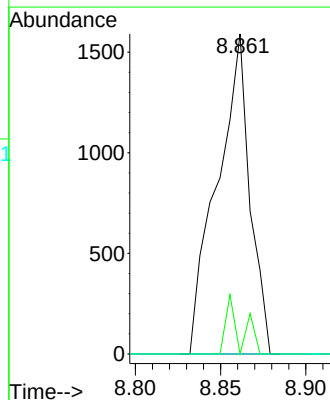
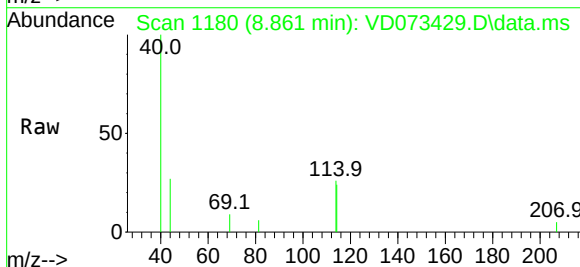
Tgt Ion: 114 Resp: 2117

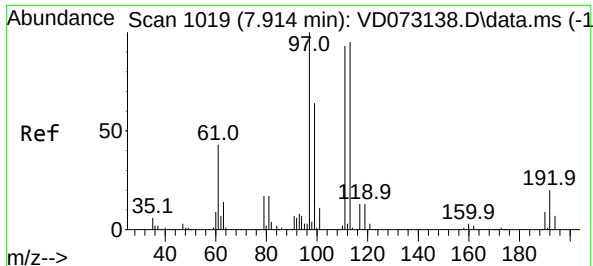
Ion Ratio Lower Upper

114 100

63 0.0 0.0 46.6

88 0.0 0.0 33.2





#35

Dibromofluoromethane

Concen: 39.730 ug/l

RT: 7.903 min Scan# 1017

Delta R.T. -0.011 min

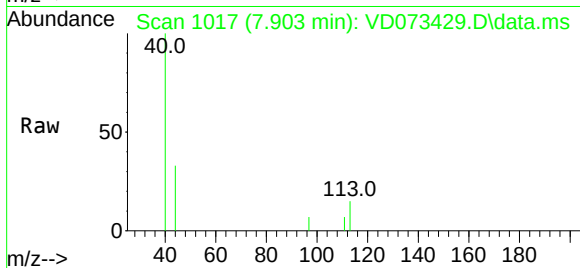
Lab File: VD073429.D

Acq: 31 May 2022 17:11

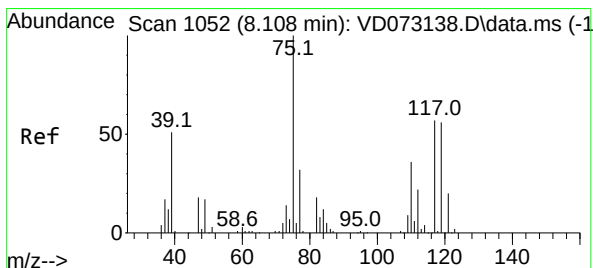
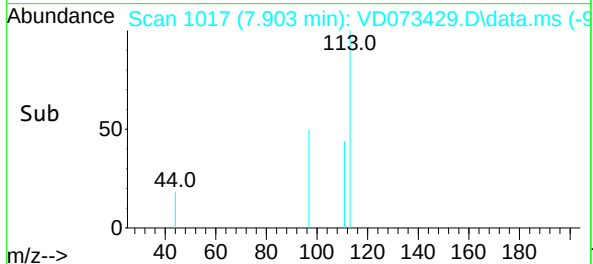
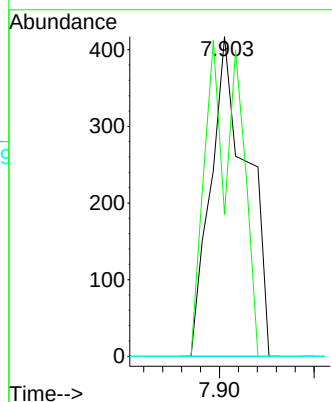
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:113	Resp:	555
Ion	Ratio	Lower Upper
113	100	
111	91.5	83.8 125.6
192	0.0	14.6 21.8#



#36

1,1-Dichloropropene

Concen: 265.068 ug/l

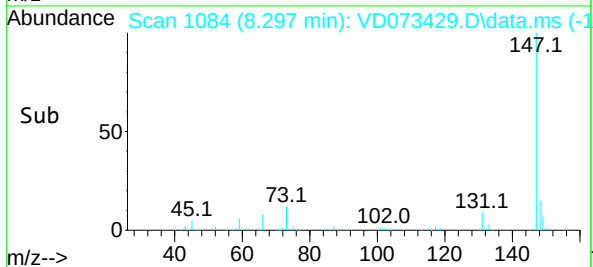
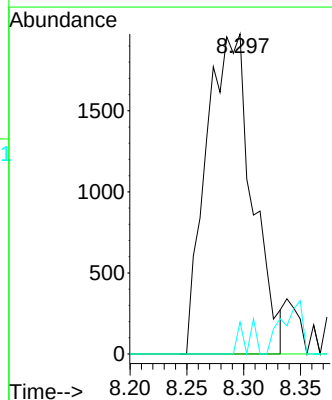
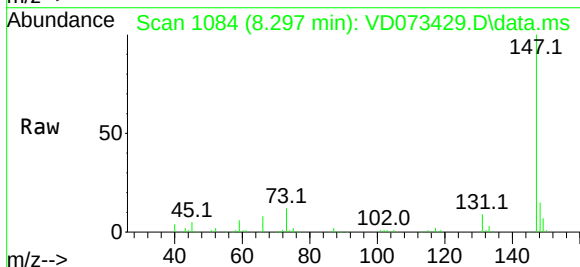
RT: 8.297 min Scan# 1084

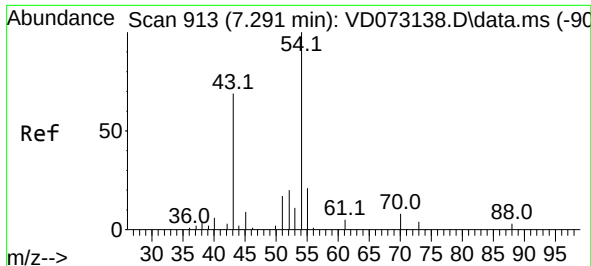
Delta R.T. 0.189 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

Tgt Ion: 75	Resp:	5569
Ion	Ratio	Lower Upper
75	100	
110	0.0	16.4 49.1#
77	2.6	24.2 36.2#





#37

Ethyl Acetate

Concen: 21.570 ug/l

RT: 7.285 min Scan# 91

Delta R.T. -0.006 min

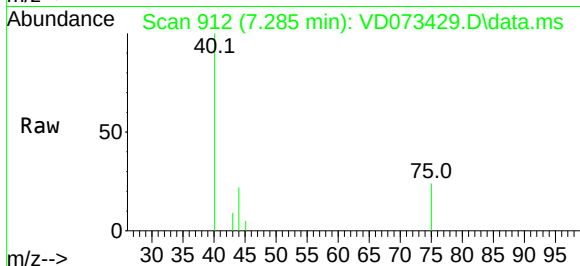
Lab File: VD073429.D

Acq: 31 May 2022 17:11

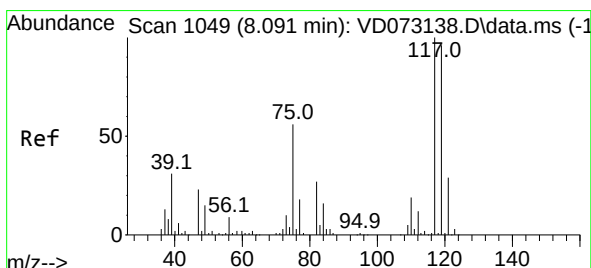
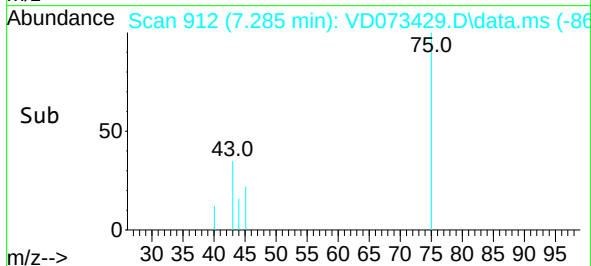
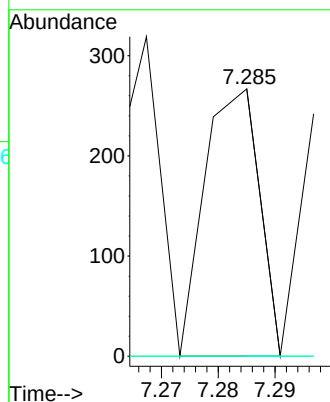
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43	Resp:	179
Ion	Ratio	Lower Upper
43	100	
61	0.0	9.8 14.8#
70	0.0	6.9 10.3#



#38

Carbon Tetrachloride

Concen: 212.096 ug/l

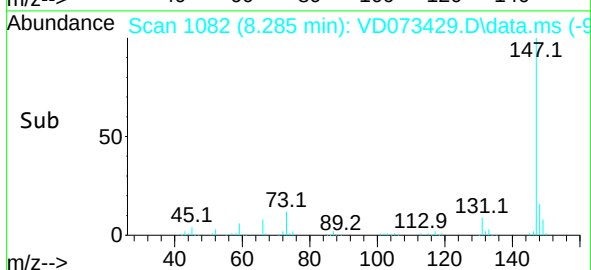
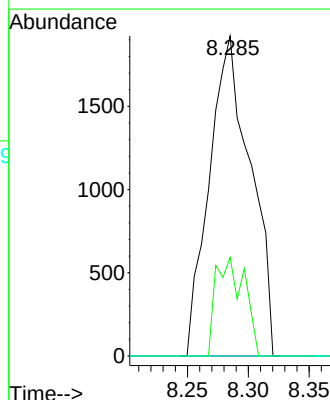
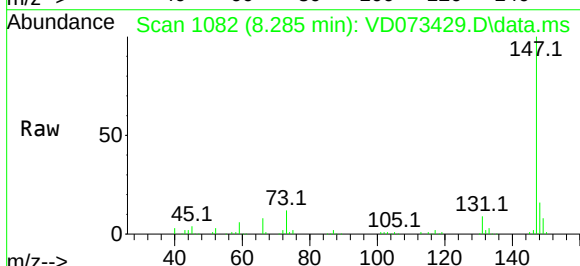
RT: 8.285 min Scan# 1082

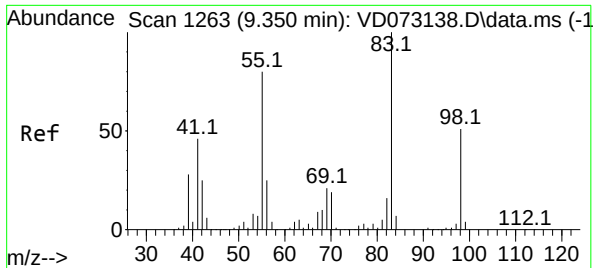
Delta R.T. 0.194 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

Tgt Ion: 117	Resp:	4517
Ion	Ratio	Lower Upper
117	100	
119	30.8	75.8 113.6#
121	0.0	24.5 36.7#

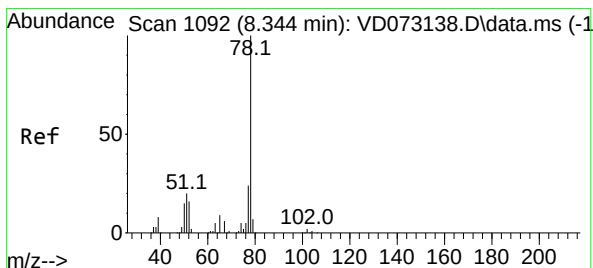
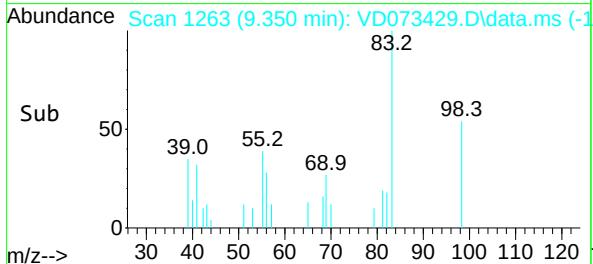
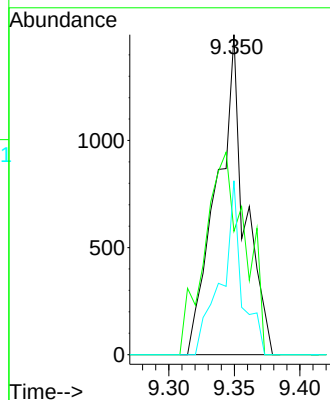
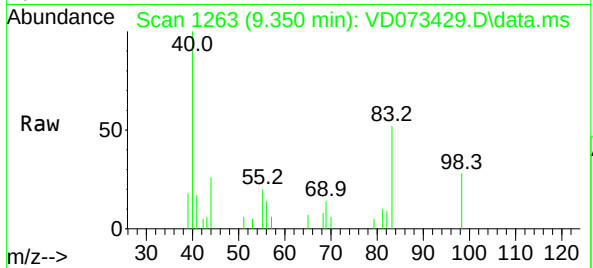




#39
Methylcyclohexane
Concen: 95.454 ug/l
RT: 9.350 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

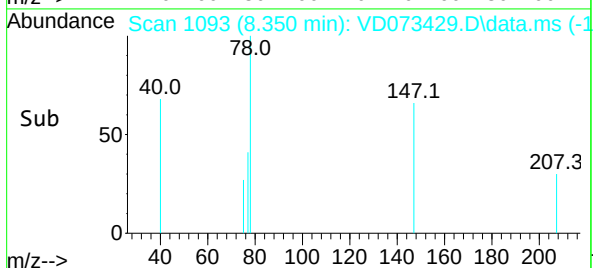
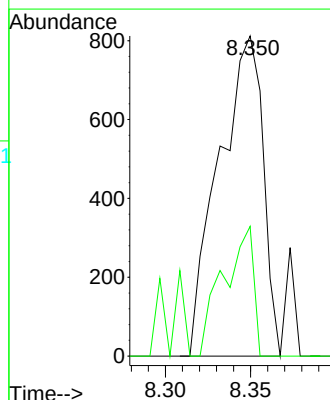
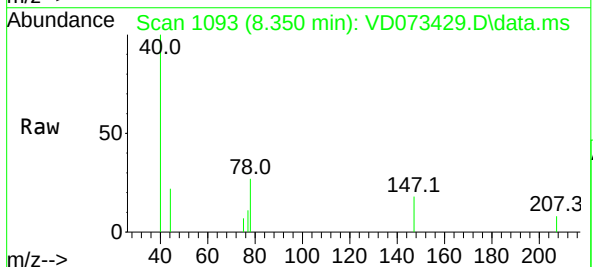
Instrument :
MSVOA_D
ClientSampleId :

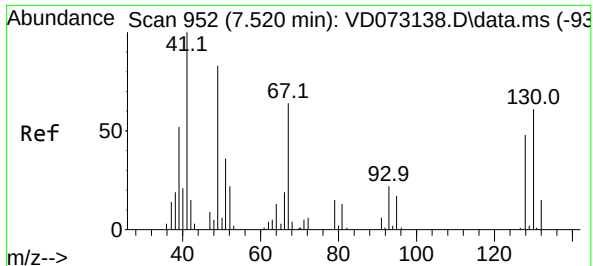
Tgt Ion: 83 Resp: 2235
Ion Ratio Lower Upper
83 100
55 38.6 63.2 94.8#
98 54.4 38.2 57.4



#40
Benzene
Concen: 24.145 ug/l
RT: 8.350 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

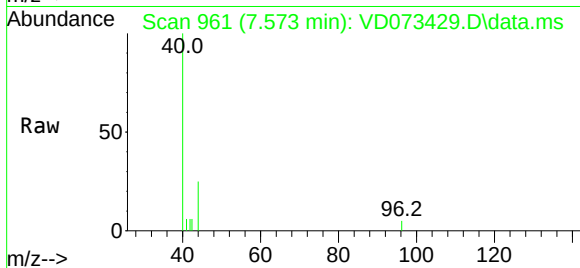
Tgt Ion: 78 Resp: 1462
Ion Ratio Lower Upper
78 100
77 40.5 19.1 28.7#



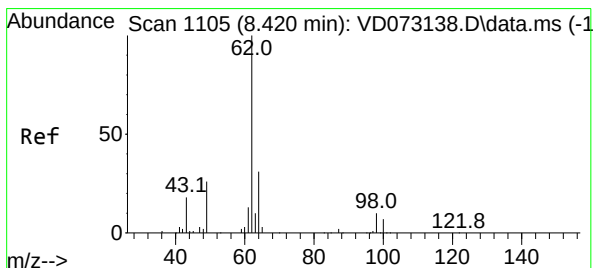
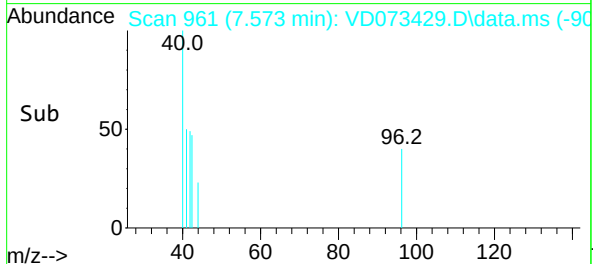
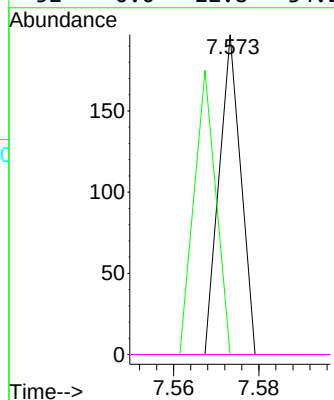


#41
Methacrylonitrile
Concen: 14.478 ug/l
RT: 7.573 min Scan# 90
Delta R.T. 0.053 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

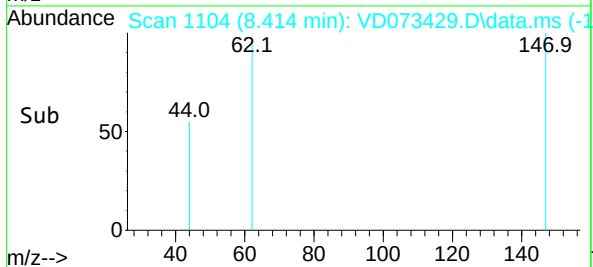
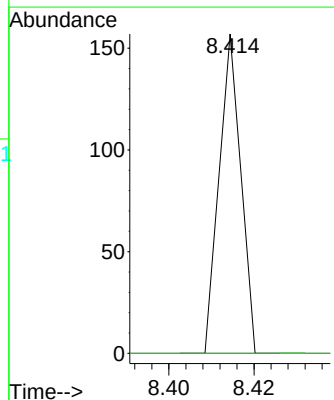
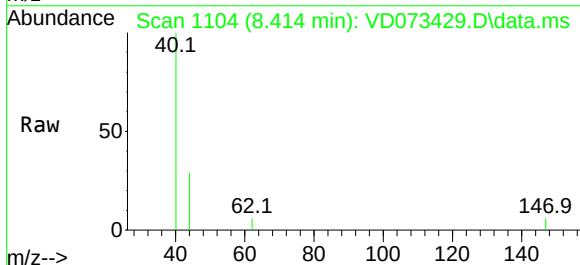


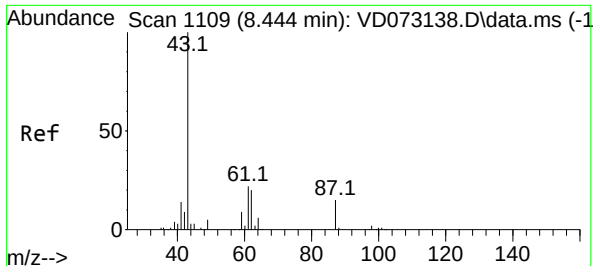
Tgt Ion:	41	Resp:	70
Ion	Ratio	Lower	Upper
41	100		
39	88.6	44.6	67.0#
67	0.0	48.2	72.4#
52	0.0	22.8	34.2#



#42
1,2-Dichloroethane
Concen: 3.264 ug/l
RT: 8.414 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion:	62	Resp:	55
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.6





#43

Isopropyl Acetate

Concen: 395.461 ug/l

RT: 8.285 min Scan# 1109

Delta R.T. -0.159 min

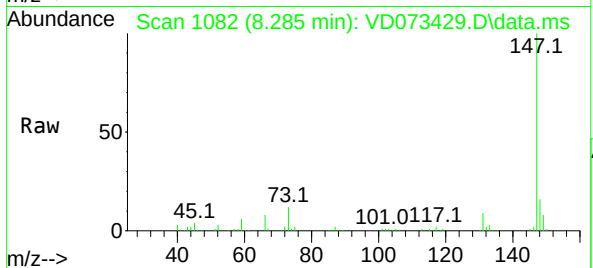
Lab File: VD073429.D

Acq: 31 May 2022 17:11

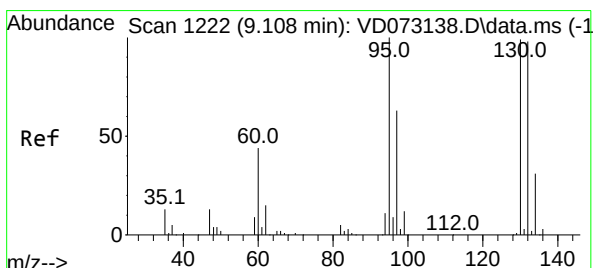
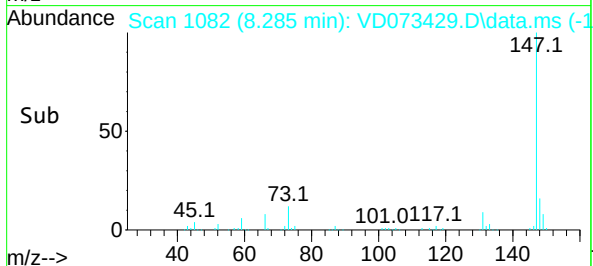
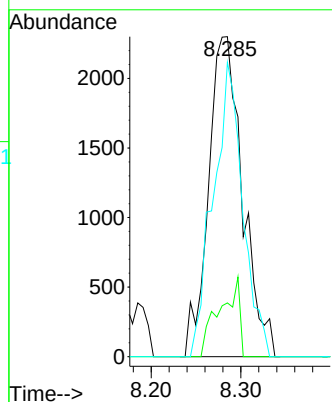
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	43	Resp:	6066
Ion Ratio	Lower	Upper	
43	100		
61	14.6	22.4	33.6#
87	79.5	8.7	13.1#



#44

Trichloroethene

Concen: 4.149 ug/l

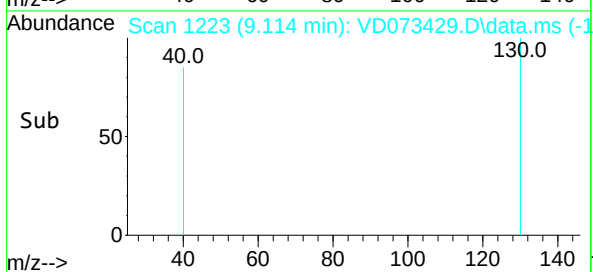
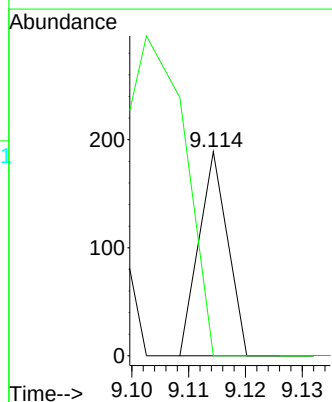
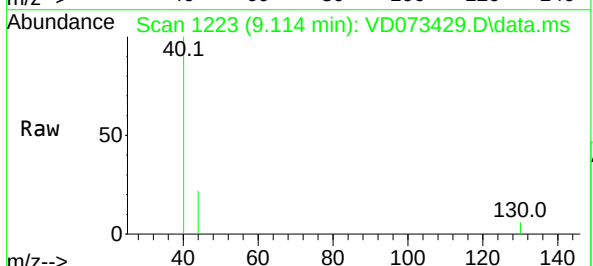
RT: 9.114 min Scan# 1223

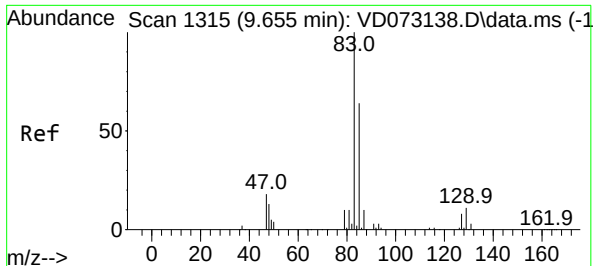
Delta R.T. 0.006 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

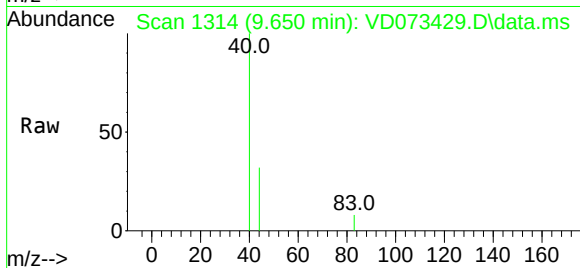
Tgt Ion:	130	Resp:	67
Ion Ratio	Lower	Upper	
130	100		
95	0.0	0.0	205.4



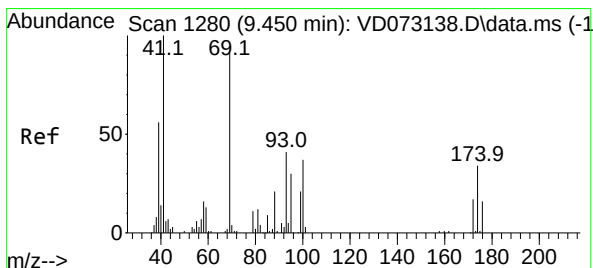
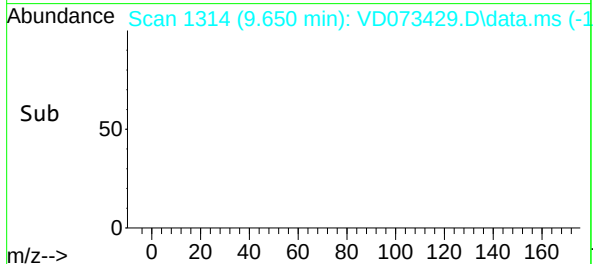
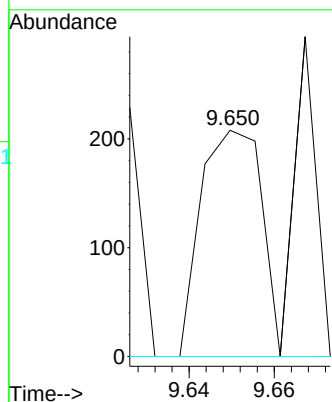


#47
Bromodichloromethane
Concen: 9.613 ug/l
RT: 9.650 min Scan# 11
Delta R.T. -0.005 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

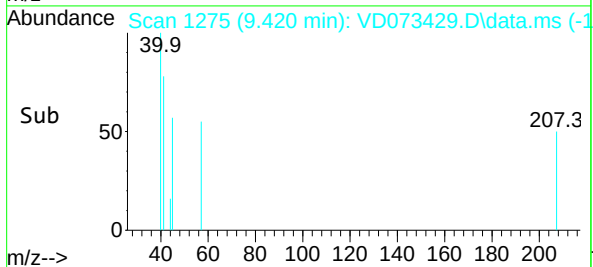
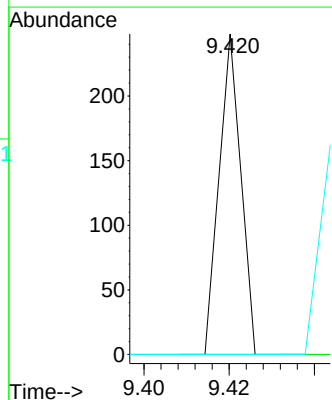
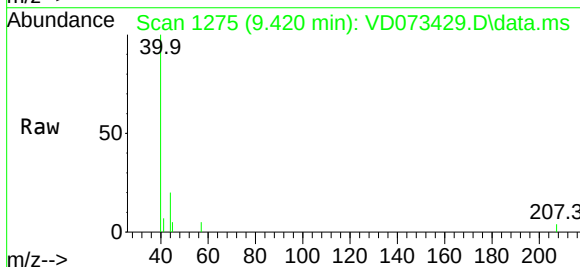


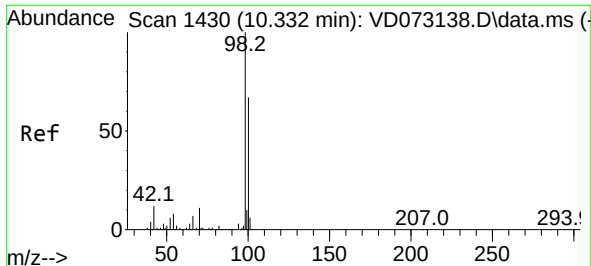
Tgt Ion: 83 Resp: 206
Ion Ratio Lower Upper
83 100
85 0.0 51.4 77.0#
127 0.0 6.1 9.1#



#48
Methyl methacrylate
Concen: 11.403 ug/l
RT: 9.420 min Scan# 1275
Delta R.T. -0.030 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion: 41 Resp: 88
Ion Ratio Lower Upper
41 100
69 0.0 56.7 85.1#
39 0.0 42.7 64.1#

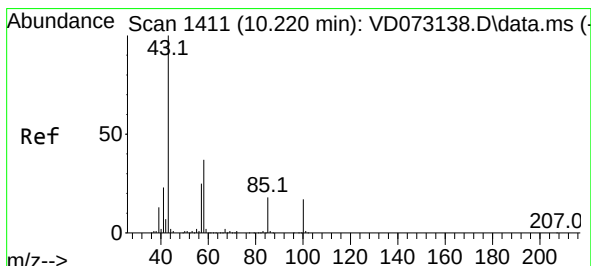
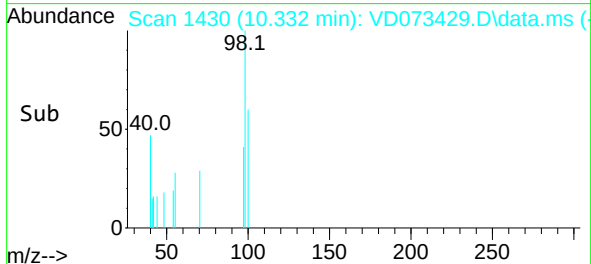
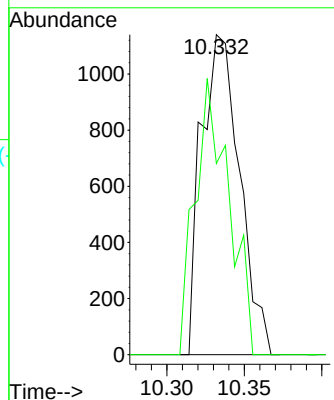
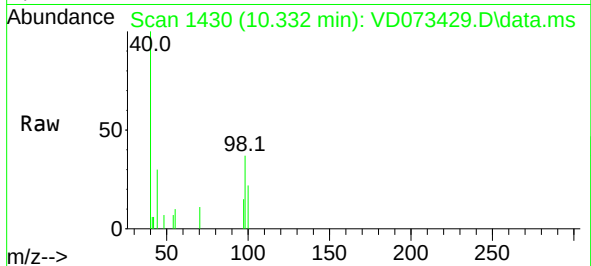




#50
Toluene-d8
Concen: 38.140 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

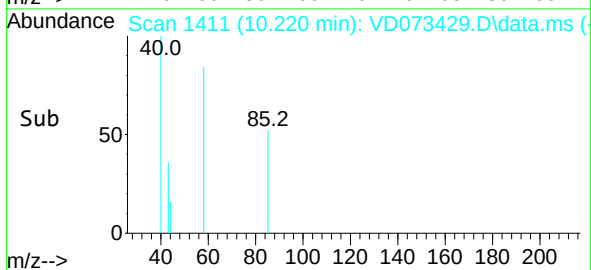
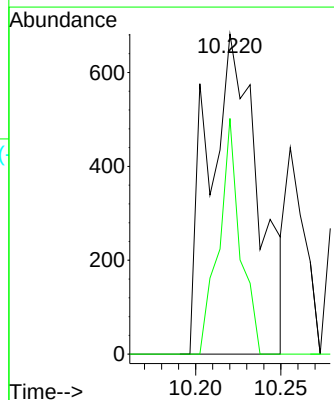
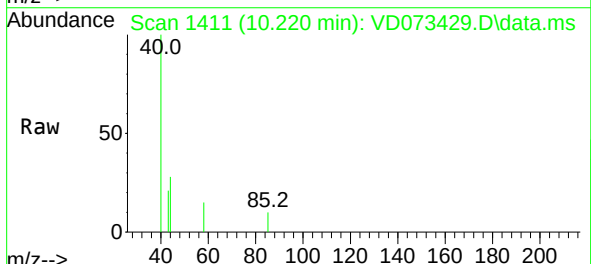
Instrument :
MSVOA_D
ClientSampleId :

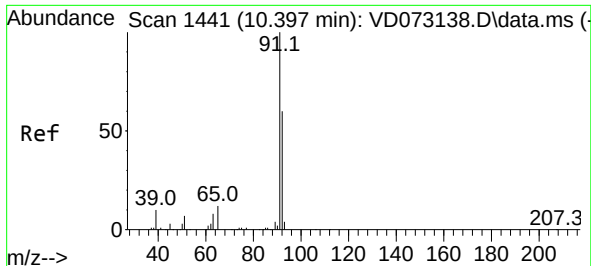
Tgt Ion: 98 Resp: 1964
Ion Ratio Lower Upper
98 100
100 75.8 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 173.219 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion: 43 Resp: 1380
Ion Ratio Lower Upper
43 100
58 31.7 28.6 43.0

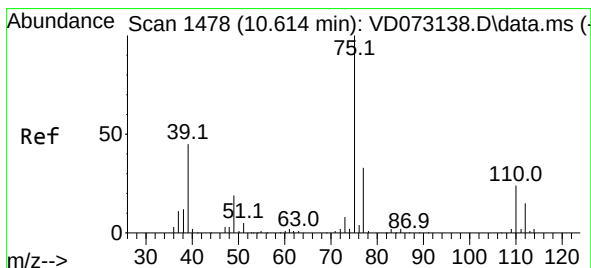
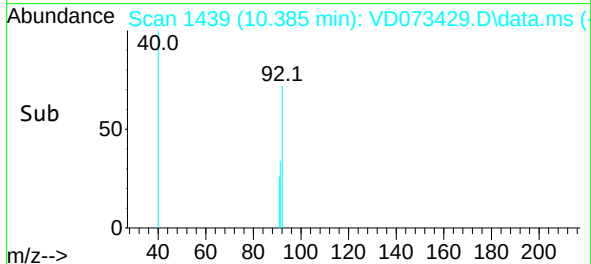
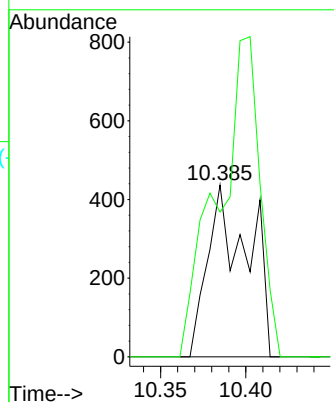
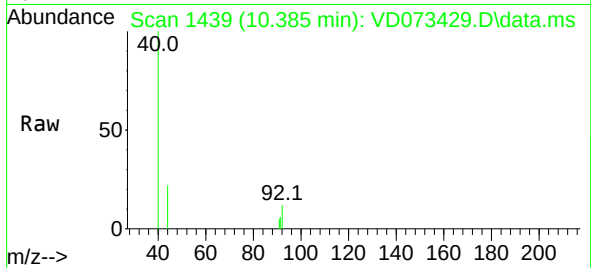




#52
Toluene
Concen: 18.556 ug/l
RT: 10.385 min Scan# 1441
Delta R.T. -0.012 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

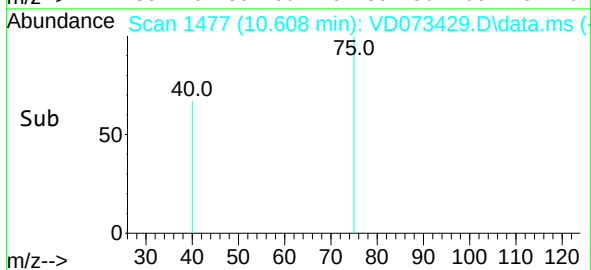
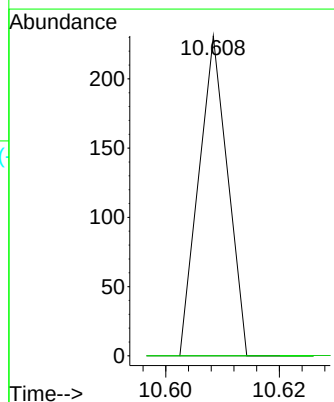
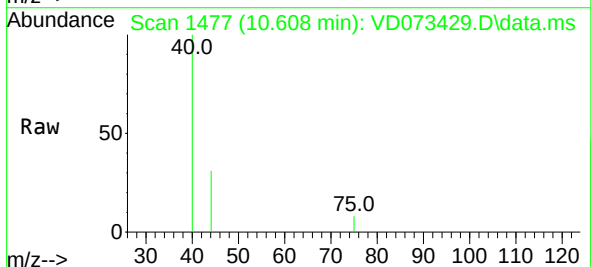
Instrument :
MSVOA_D
ClientSampleId :

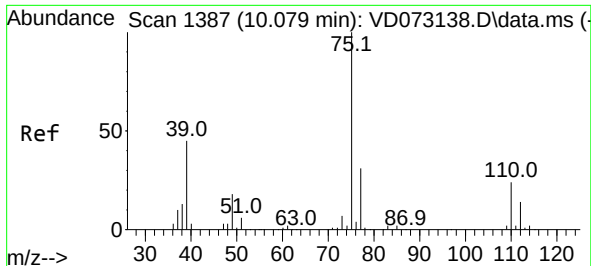
Tgt Ion: 92 Resp: 710
Ion Ratio Lower Upper
92 100
91 195.2 139.6 209.4



#53
t-1,3-Dichloropropene
Concen: 4.236 ug/l
RT: 10.608 min Scan# 1477
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

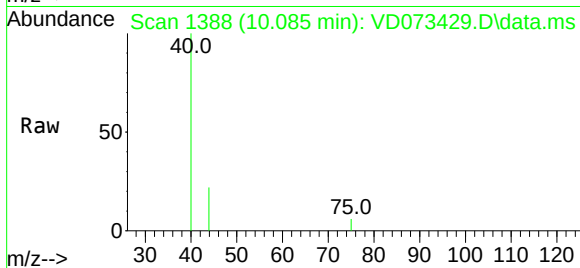
Tgt Ion: 75 Resp: 82
Ion Ratio Lower Upper
75 100
77 0.0 24.5 36.7#



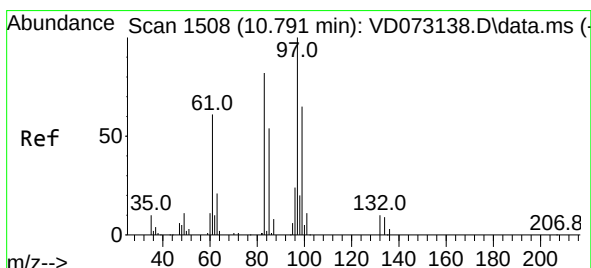
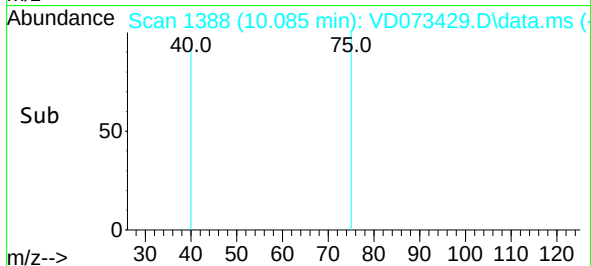
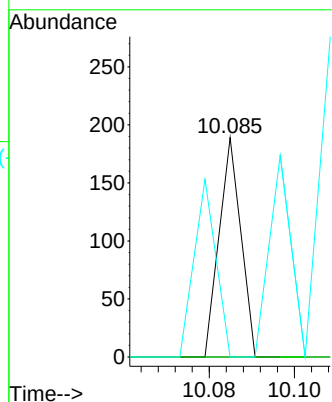


#54
 cis-1,3-Dichloropropene
 Concen: 2.892 ug/l
 RT: 10.085 min Scan# 1387
 Delta R.T. 0.006 min
 Lab File: VD073429.D
 Acq: 31 May 2022 17:11

Instrument :
 MSVOA_D
 ClientSampleId :

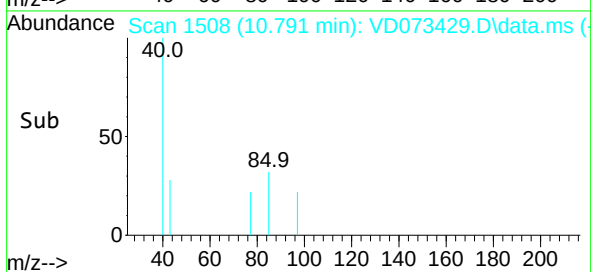
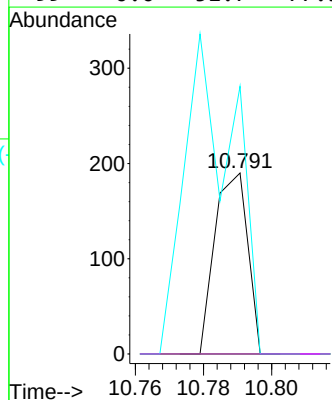
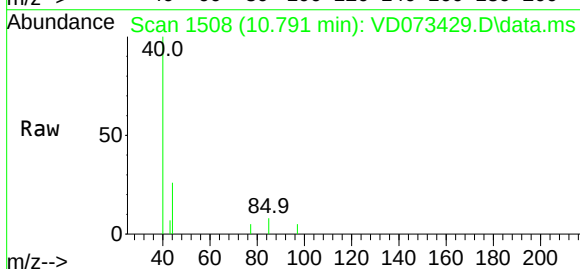


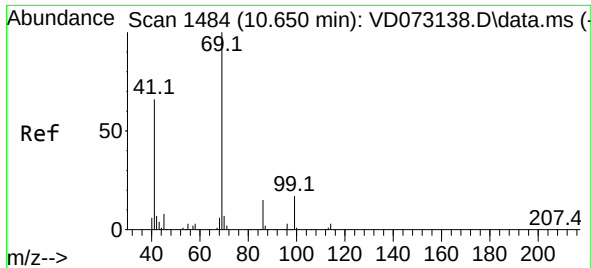
Tgt Ion: 75 Resp: 67
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 0.0 46.8 70.2#



#55
 1,1,2-Trichloroethane
 Concen: 11.214 ug/l
 RT: 10.791 min Scan# 1508
 Delta R.T. -0.000 min
 Lab File: VD073429.D
 Acq: 31 May 2022 17:11

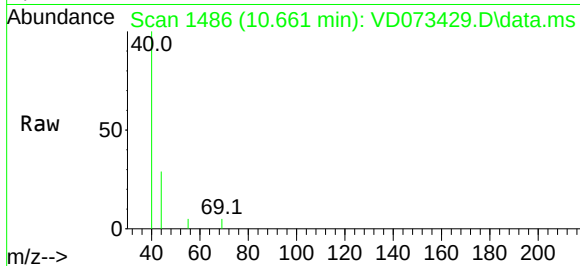
Tgt Ion: 97 Resp: 127
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.0 103.4#
 85 147.9 42.6 63.8#
 99 0.0 51.7 77.5#



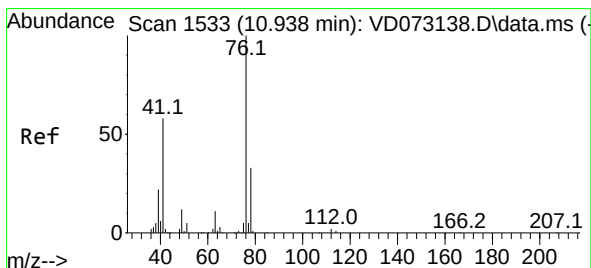
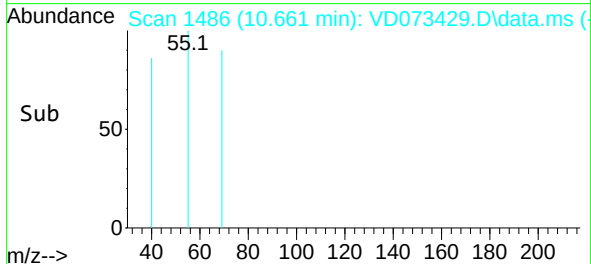
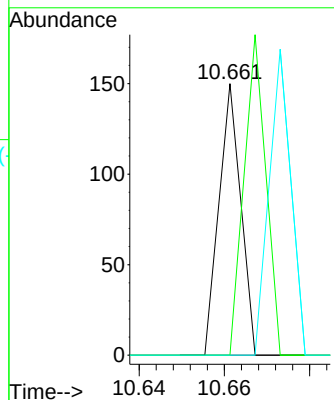


#56
Ethyl methacrylate
Concen: 4.209 ug/l
RT: 10.661 min Scan# 1484
Delta R.T. 0.011 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

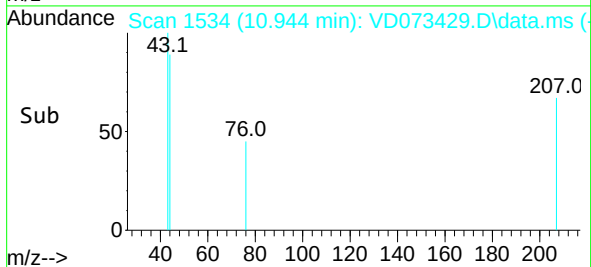
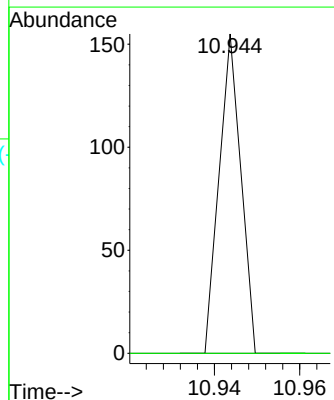
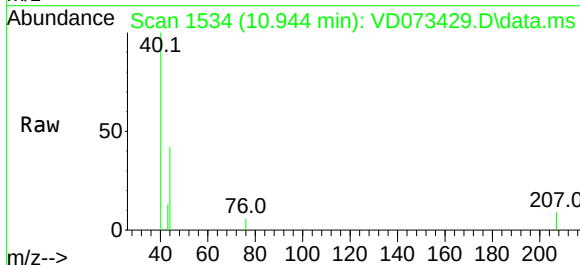


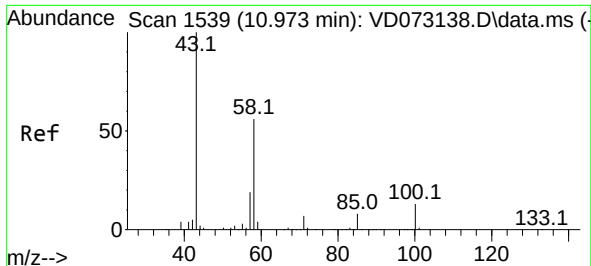
Tgt Ion: 69 Resp: 53
Ion Ratio Lower Upper
69 100
41 117.0 63.0 94.6#
39 113.2 33.8 50.8#



#57
1,3-Dichloropropane
Concen: 2.894 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. 0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion: 76 Resp: 55
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

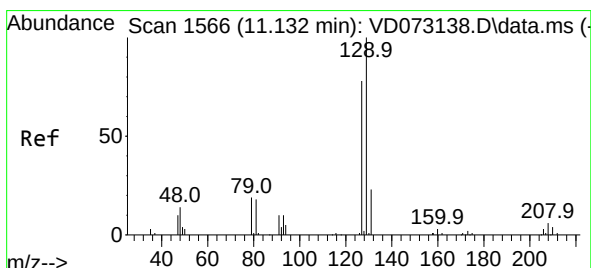
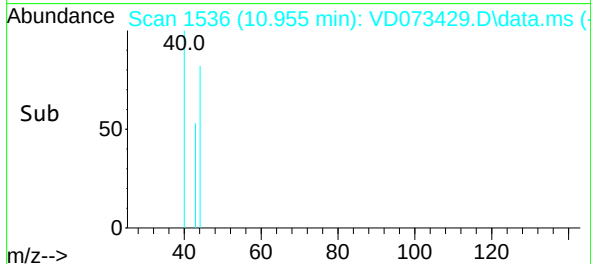
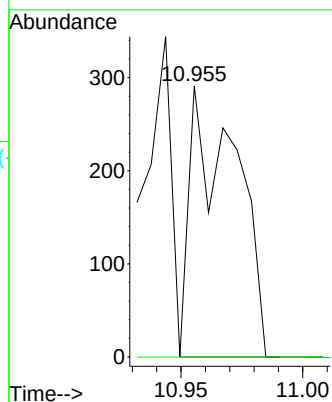
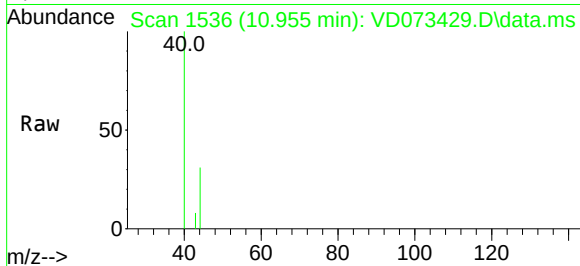




#59
2-Hexanone
Concen: 72.538 ug/l
RT: 10.955 min Scan# 1536
Delta R.T. -0.018 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

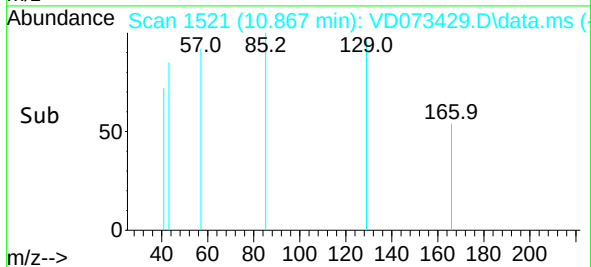
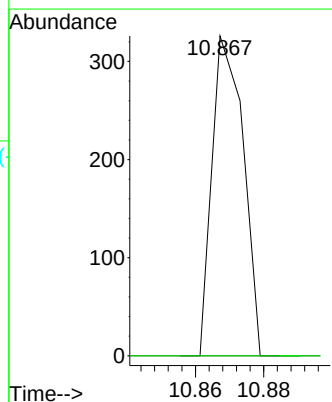
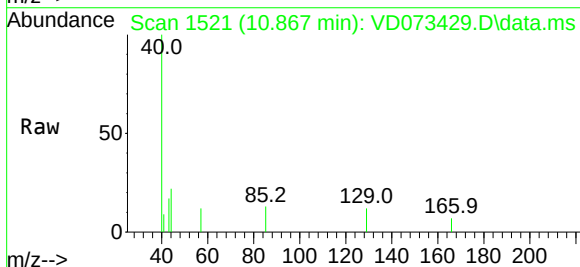
Instrument :
MSVOA_D
ClientSampleId :

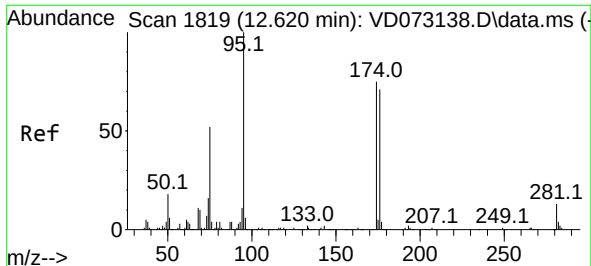
Tgt Ion: 43 Resp: 381
Ion Ratio Lower Upper
43 100
58 0.0 25.3 75.9#



#60
Dibromochloromethane
Concen: 14.658 ug/l
RT: 10.867 min Scan# 1521
Delta R.T. -0.265 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion: 129 Resp: 207
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#

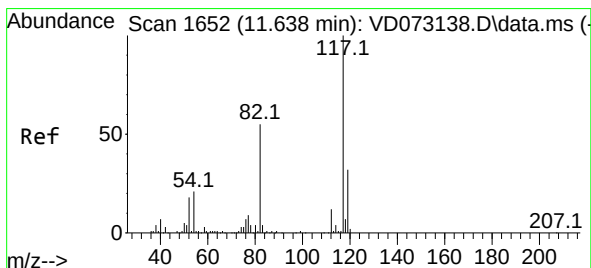
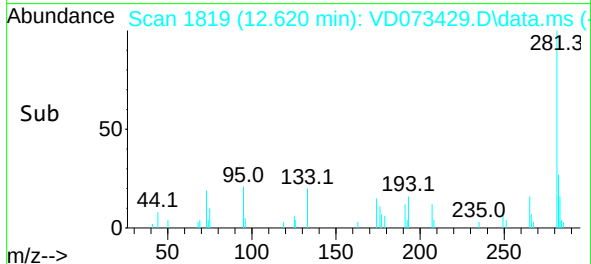
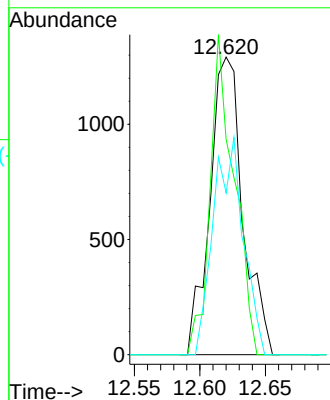
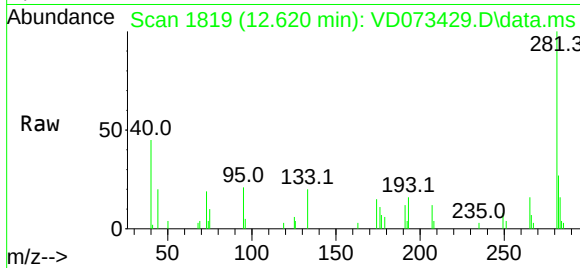




#62
4-Bromofluorobenzene
Concen: 125.722 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

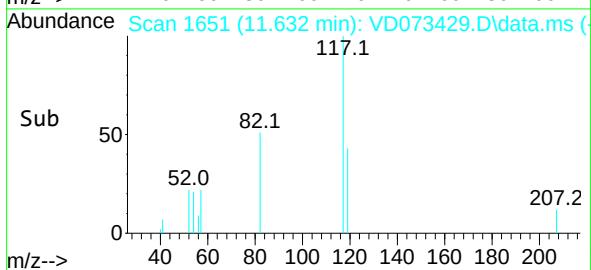
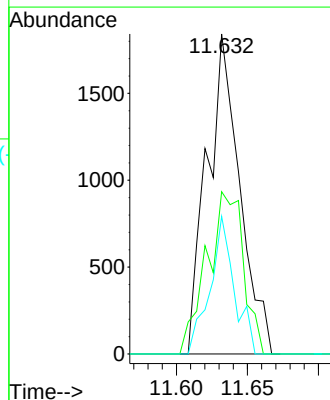
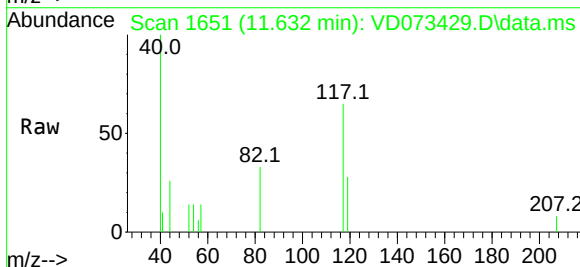
Instrument :
MSVOA_D
ClientSampleId :

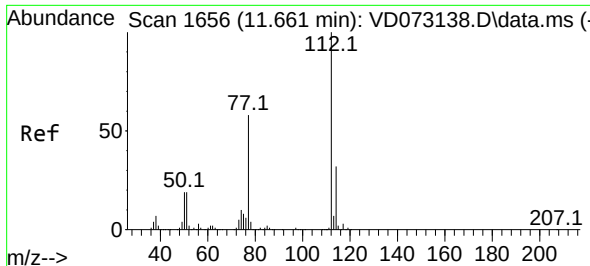
Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	152.8
176	65.7	0.0	145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

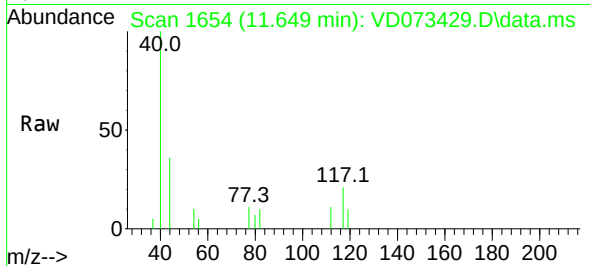
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.7	45.3	67.9
119	43.0	26.6	40.0



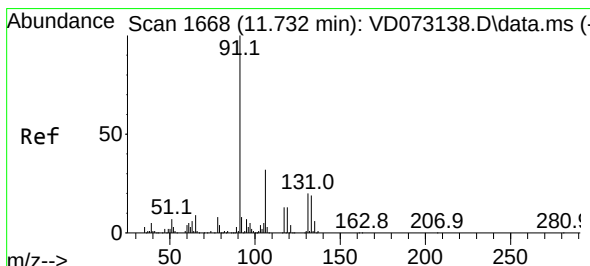
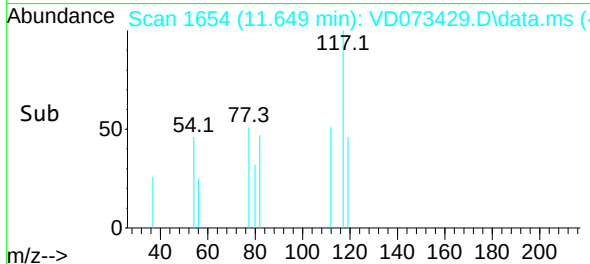
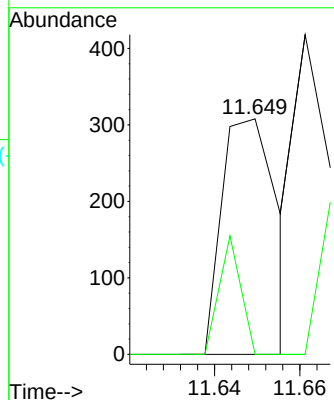


#65
Chlorobenzene
Concen: 4.601 ug/l
RT: 11.649 min Scan# 1654
Delta R.T. -0.012 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

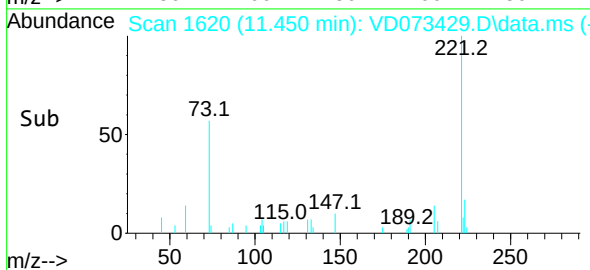
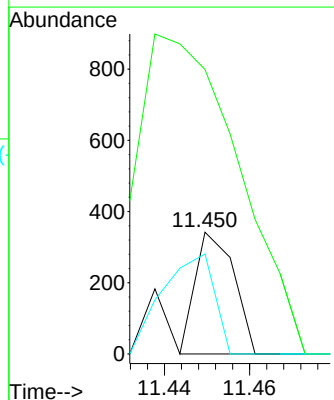
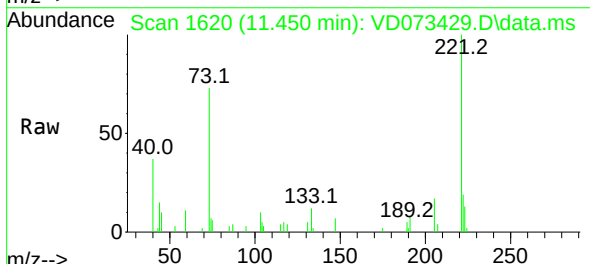


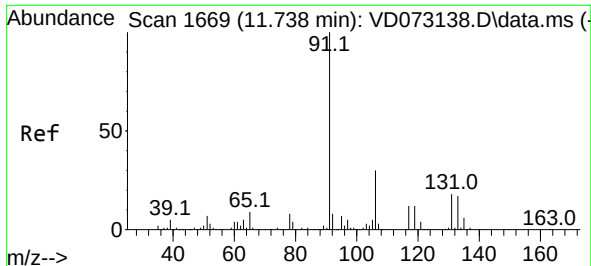
Tgt Ion:112 Resp: 279
Ion Ratio Lower Upper
112 100
114 0.0 25.8 38.6#



#66
1,1,1,2-Tetrachloroethane
Concen: 9.604 ug/l
RT: 11.450 min Scan# 1620
Delta R.T. -0.282 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion:131 Resp: 216
Ion Ratio Lower Upper
131 100
133 0.0 48.1 144.3#
119 0.0 31.9 95.9#

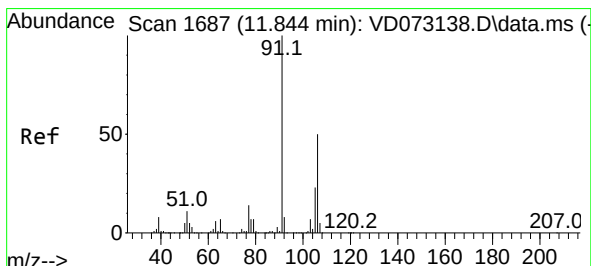
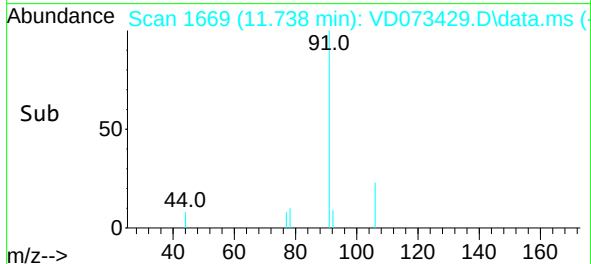
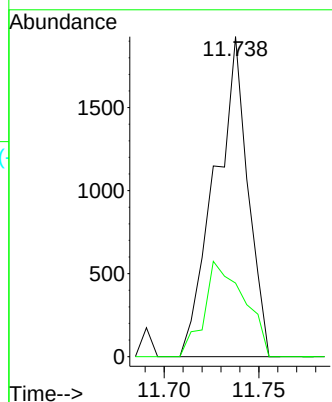
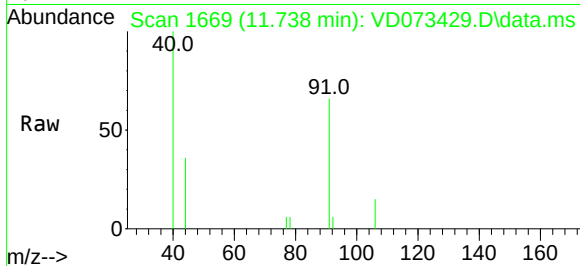




#67
Ethyl Benzene
Concen: 21.869 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

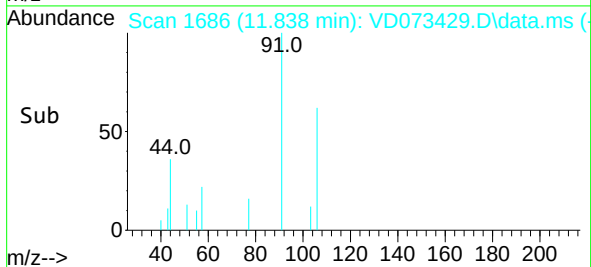
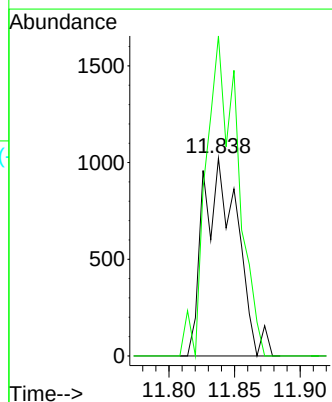
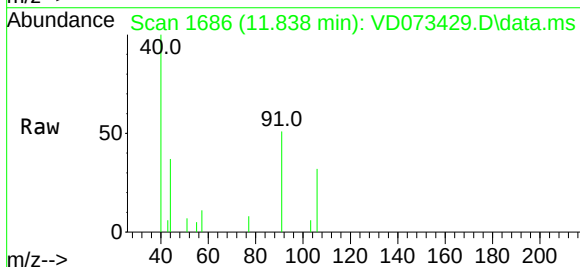
Instrument :
MSVOA_D
ClientSampleId :

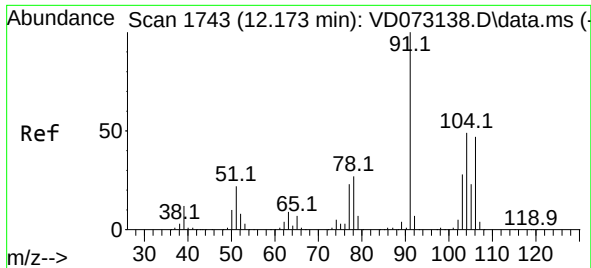
Tgt Ion: 91 Resp: 2328
Ion Ratio Lower Upper
91 100
106 23.0 24.2 36.4#



#68
m/p-Xylenes
Concen: 44.755 ug/l
RT: 11.838 min Scan# 1686
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion:106 Resp: 1851
Ion Ratio Lower Upper
106 100
91 149.8 163.7 245.5#

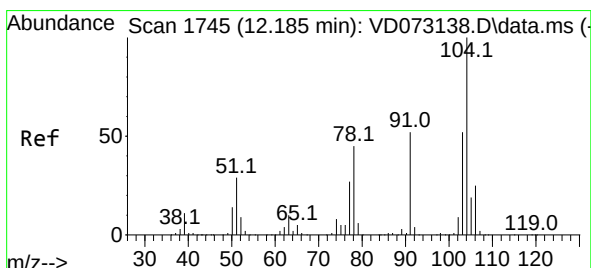
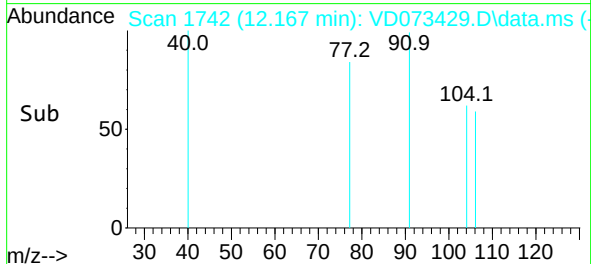
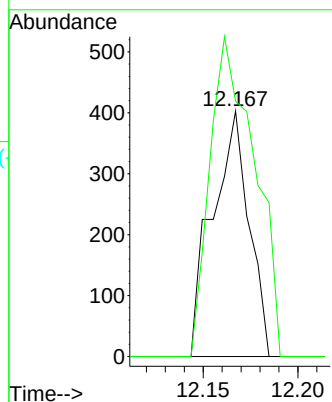
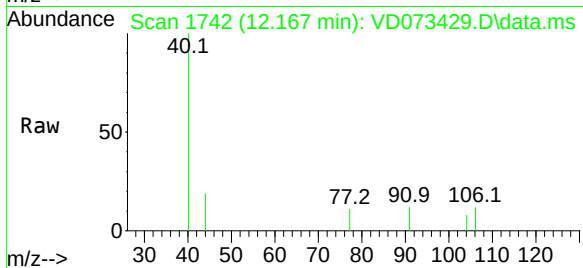




#69
o-Xylene
Concen: 14.213 ug/l
RT: 12.167 min Scan# 1742
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

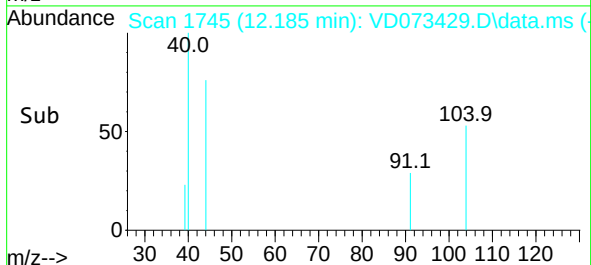
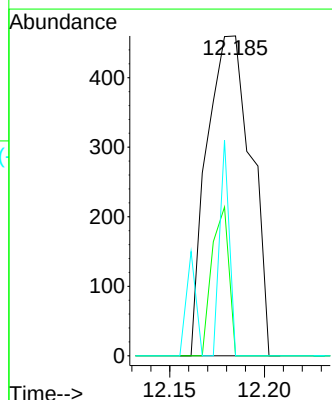
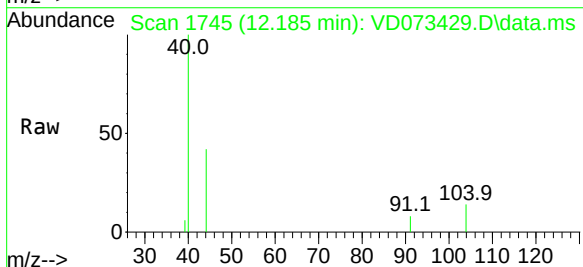
Instrument :
MSVOA_D
ClientSampleId :

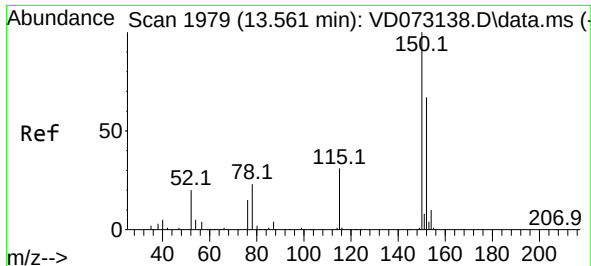
Tgt Ion:106 Resp: 540
Ion Ratio Lower Upper
106 100
91 159.4 110.4 331.2



#70
Styrene
Concen: 11.412 ug/l
RT: 12.185 min Scan# 1745
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

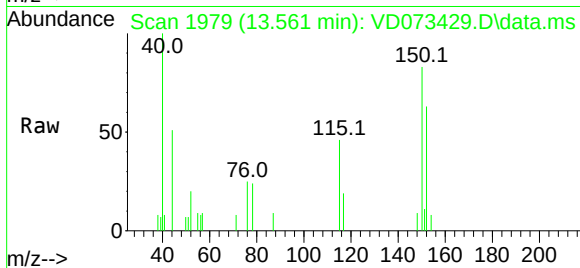
Tgt Ion:104 Resp: 746
Ion Ratio Lower Upper
104 100
78 17.8 41.8 62.8#
103 14.6 44.2 66.4#



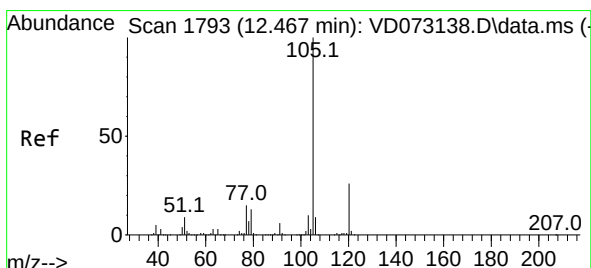
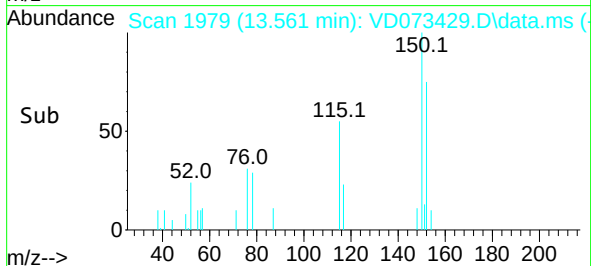
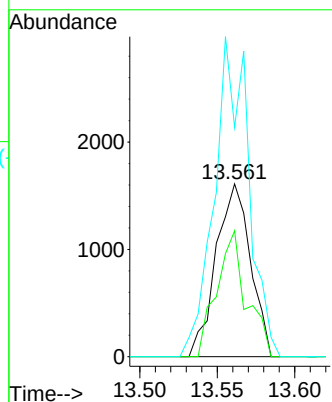


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1799
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

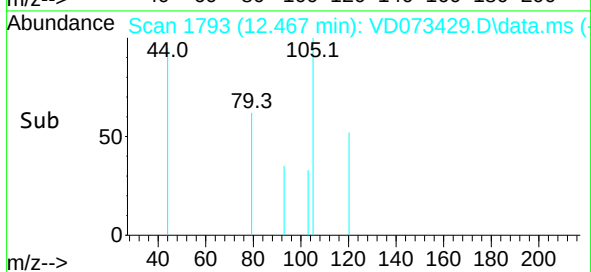
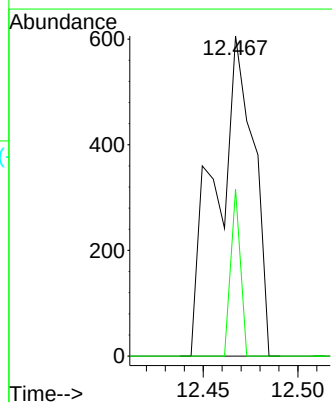
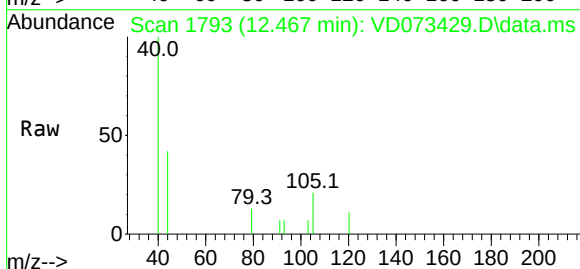


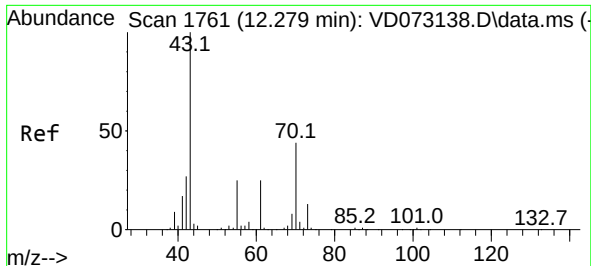
Tgt Ion:152 Resp: 2484
Ion Ratio Lower Upper
152 100
115 63.0 31.3 93.8
150 184.1 0.0 348.6



#73
Isopropylbenzene
Concen: 4.721 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

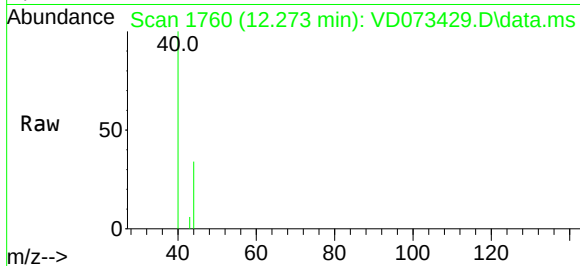
Tgt Ion:105 Resp: 836
Ion Ratio Lower Upper
105 100
120 13.3 13.0 38.9



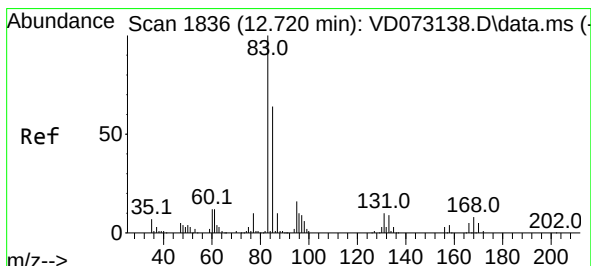
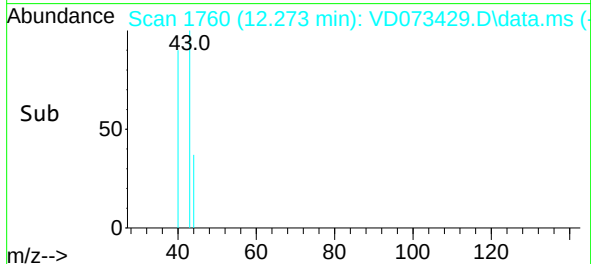
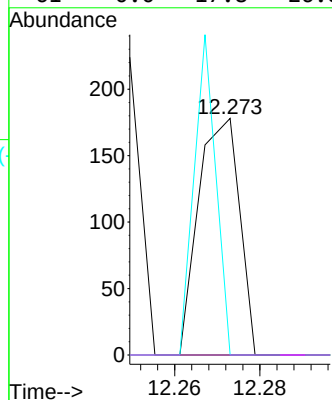


#74
N-amy1 acetate
Concen: 3.080 ug/l
RT: 12.273 min Scan# 119
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

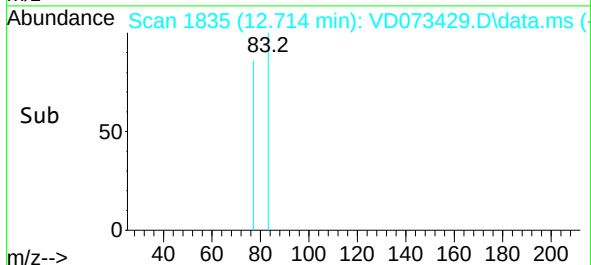
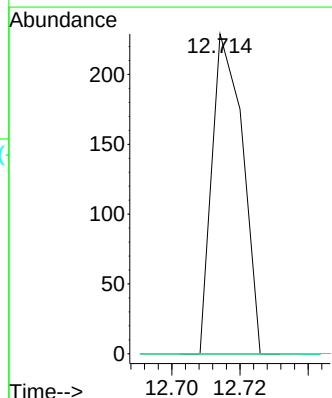
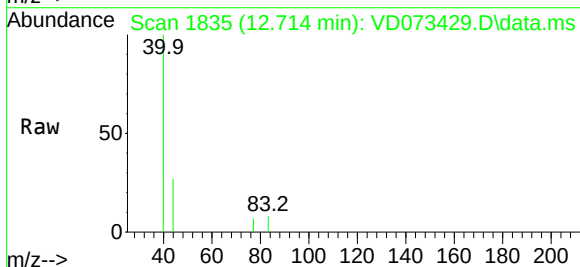


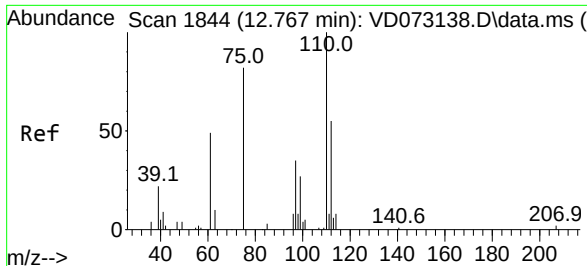
Tgt Ion: 43	Resp: 119
Ion Ratio	Lower Upper
43	100
70	0.0 31.3 46.9#
55	71.4 20.0 30.0#
61	0.0 17.8 26.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 4.379 ug/l
RT: 12.714 min Scan# 1835
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

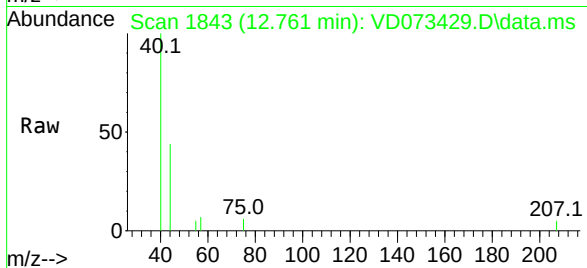
Tgt Ion: 83	Resp: 143
Ion Ratio	Lower Upper
83	100
131	0.0 5.0 14.9#
85	0.0 32.6 98.0#



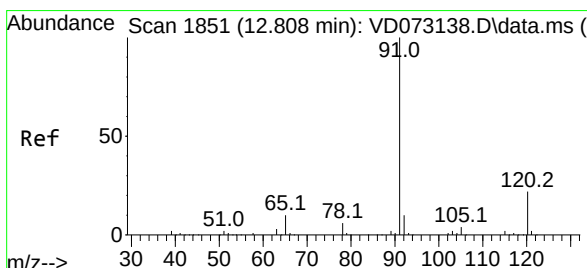
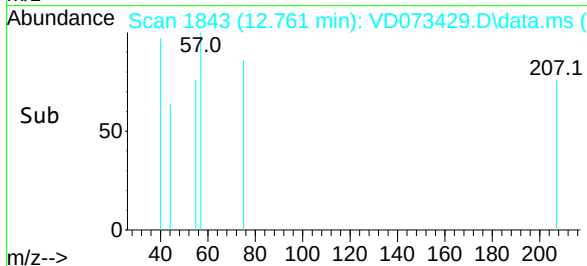
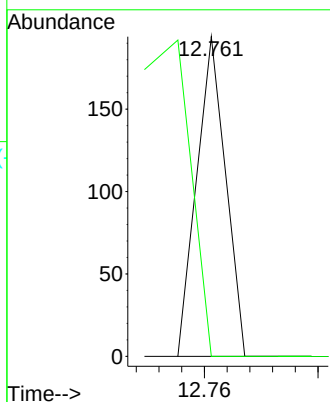


#76
1,2,3-Trichloropropane
Concen: 2.790 ug/l
RT: 12.761 min Scan# 1843
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

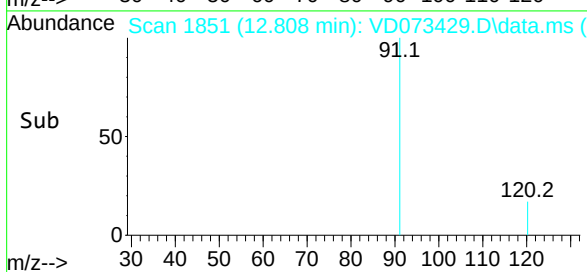
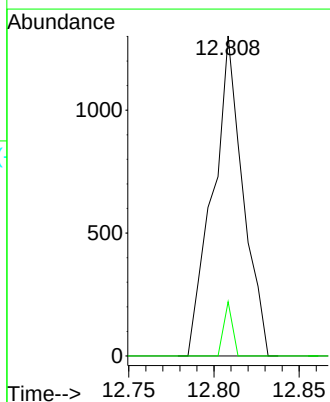
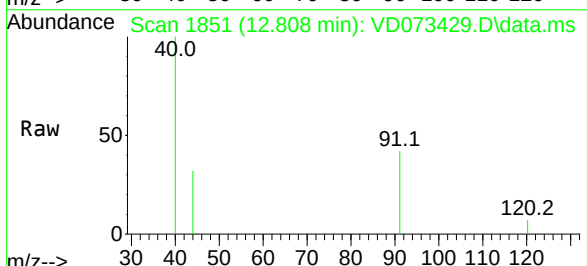


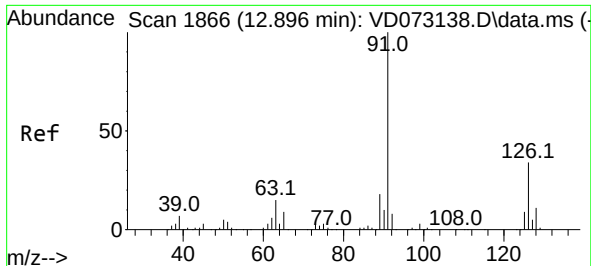
Tgt Ion: 75 Resp: 68
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 7.211 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

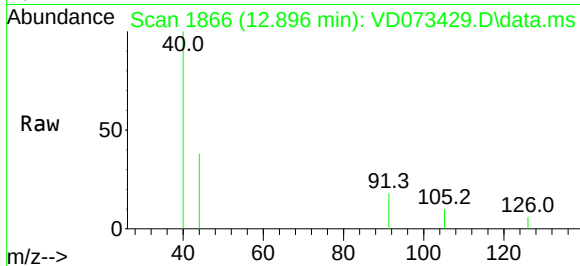
Tgt Ion: 91 Resp: 1603
Ion Ratio Lower Upper
91 100
120 4.9 10.9 32.9#



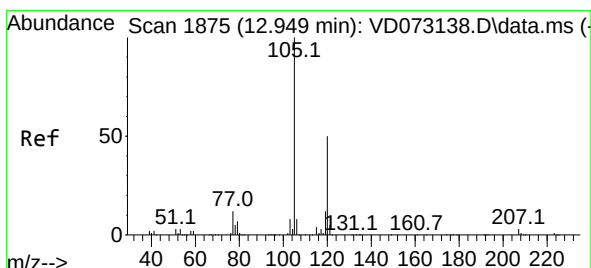
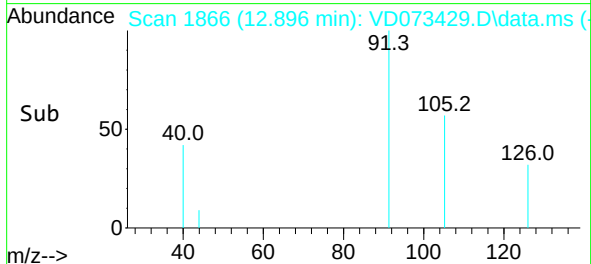
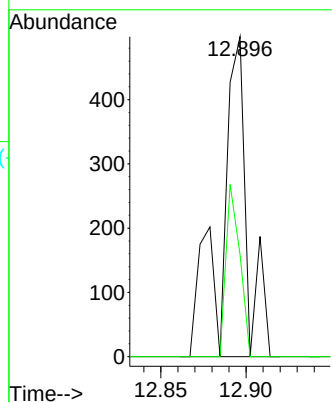


#79
2-Chlorotoluene
Concen: 4.098 ug/l
RT: 12.896 min Scan# 1866
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

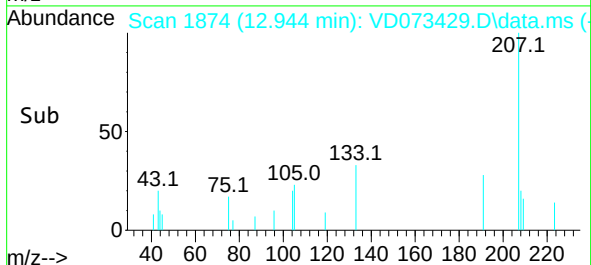
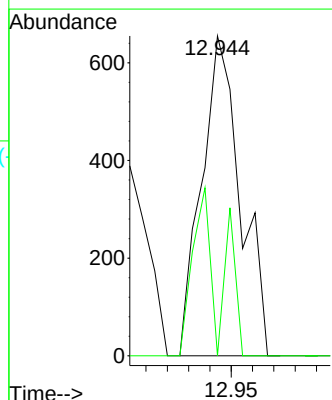
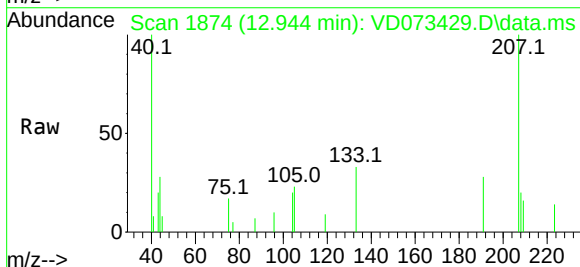


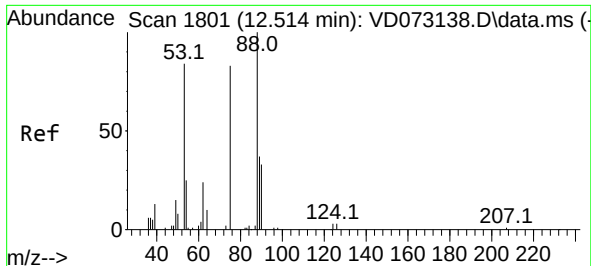
Tgt Ion: 91 Resp: 526
Ion Ratio Lower Upper
91 100
126 28.7 16.2 48.6



#80
1,3,5-Trimethylbenzene
Concen: 5.546 ug/l
RT: 12.944 min Scan# 1874
Delta R.T. -0.005 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

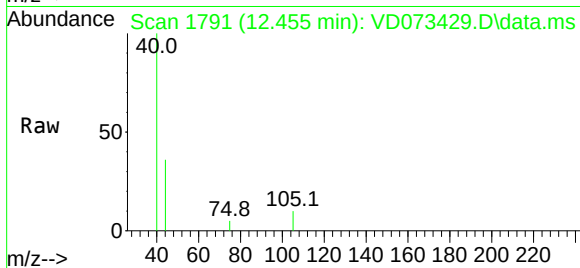
Tgt Ion: 105 Resp: 832
Ion Ratio Lower Upper
105 100
120 36.4 24.3 72.8



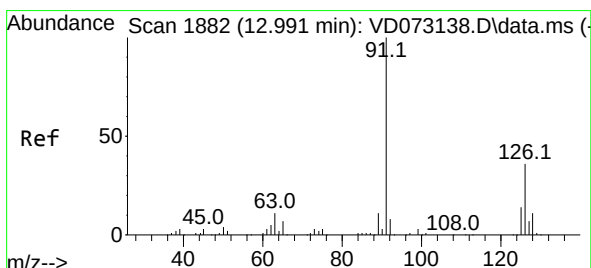
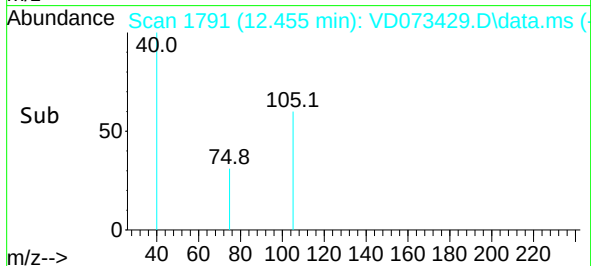
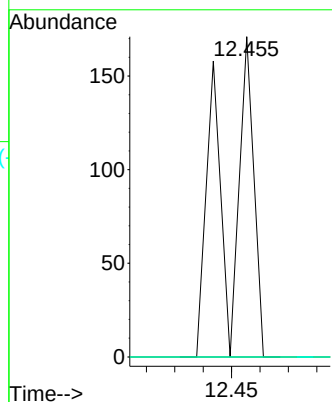


#81
trans-1,4-Dichloro-2-butene
Concen: 11.426 ug/l
RT: 12.455 min Scan# 116
Delta R.T. -0.059 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

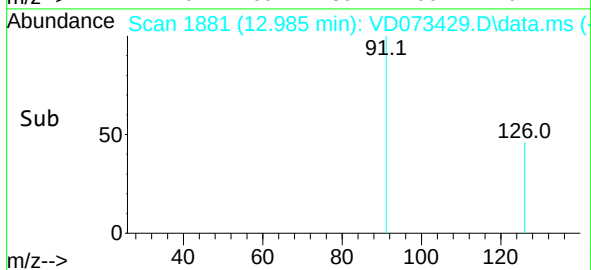
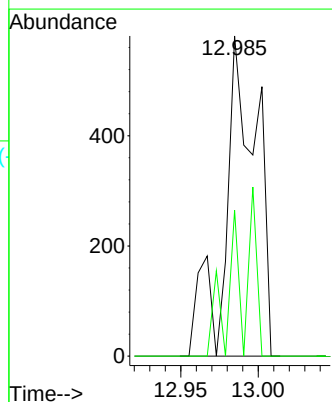
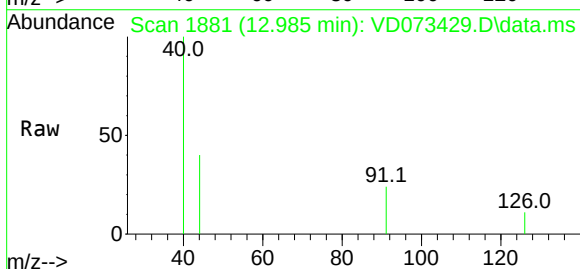


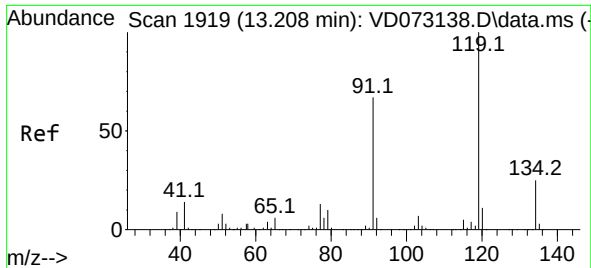
Tgt Ion: 75 Resp: 116
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 0.0 33.9 50.9#



#82
4-Chlorotoluene
Concen: 6.095 ug/l
RT: 12.985 min Scan# 1881
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion: 91 Resp: 820
Ion Ratio Lower Upper
91 100
126 18.0 16.5 49.5

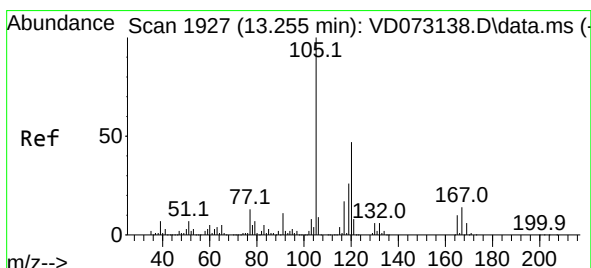
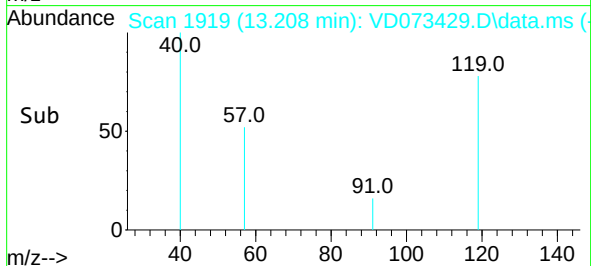
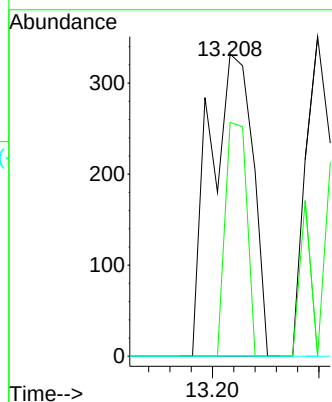
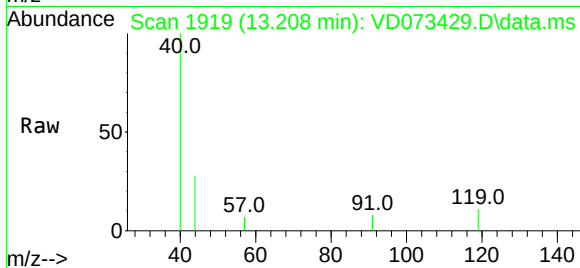




#83
tert-Butylbenzene
Concen: 3.686 ug/l
RT: 13.208 min Scan# 1919
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

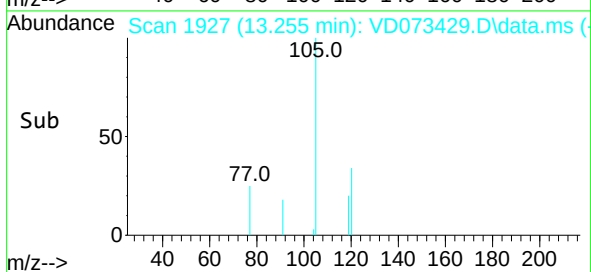
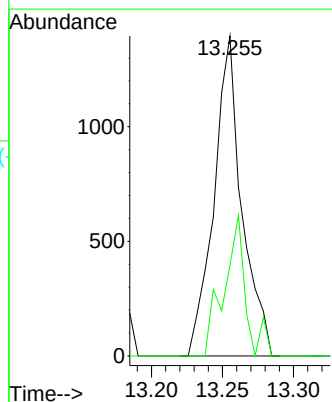
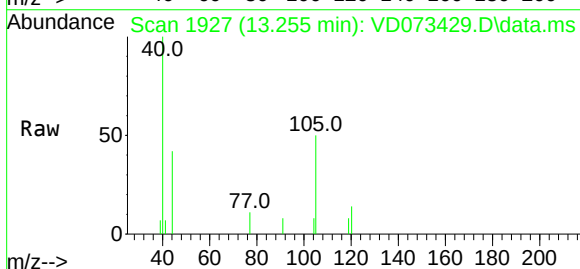
Instrument :
MSVOA_D
ClientSampleId :

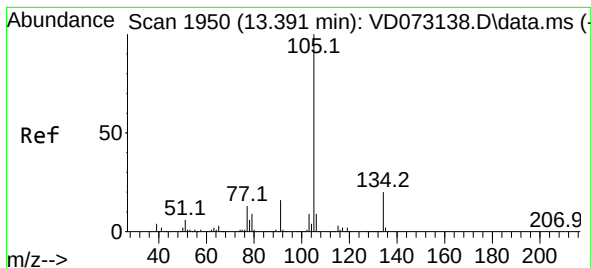
Tgt Ion:119 Resp: 466
Ion Ratio Lower Upper
119 100
91 38.6 34.8 104.5
134 0.0 13.3 39.9#



#84
1,2,4-Trimethylbenzene
Concen: 12.835 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion:105 Resp: 1902
Ion Ratio Lower Upper
105 100
120 34.3 22.3 66.8





#85

sec-Butylbenzene

Concen: 4.740 ug/l

RT: 13.379 min Scan# 1948

Delta R.T. -0.012 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

Instrument :

MSVOA_D

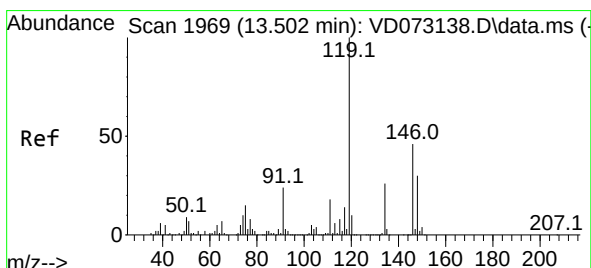
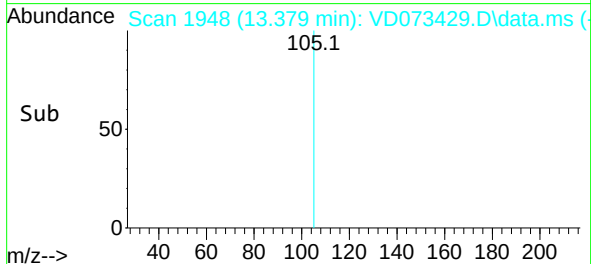
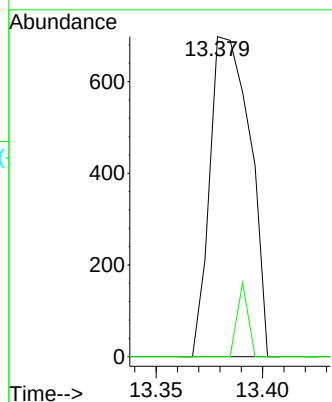
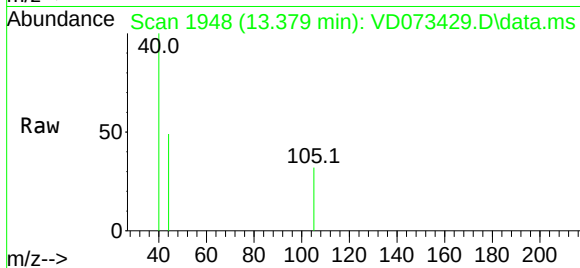
ClientSampleId :

Tgt Ion:105 Resp: 915

Ion Ratio Lower Upper

105 100

134 6.2 9.8 29.3#



#86

p-Isopropyltoluene

Concen: 4.900 ug/l

RT: 13.508 min Scan# 1970

Delta R.T. 0.006 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

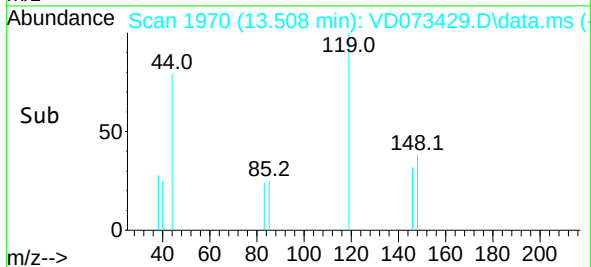
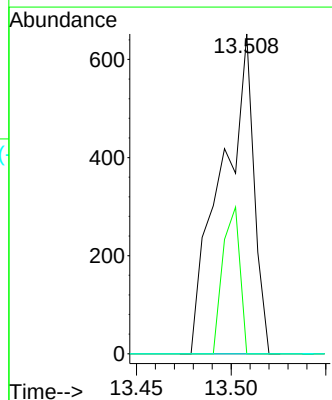
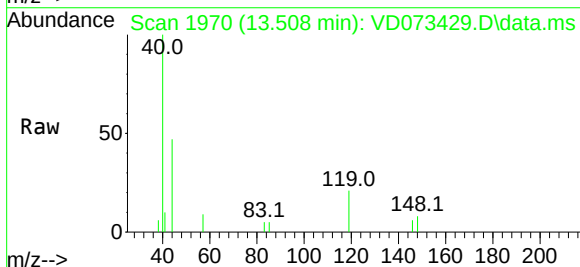
Tgt Ion:119 Resp: 771

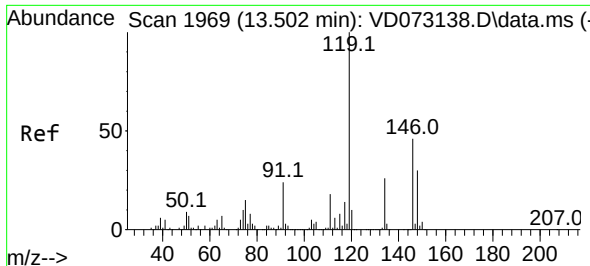
Ion Ratio Lower Upper

119 100

134 24.4 12.9 38.6

91 0.0 12.1 36.3#





#87

1,3-Dichlorobenzene

Concen: 8.724 ug/l

RT: 13.585 min Scan# 1969

Delta R.T. 0.083 min

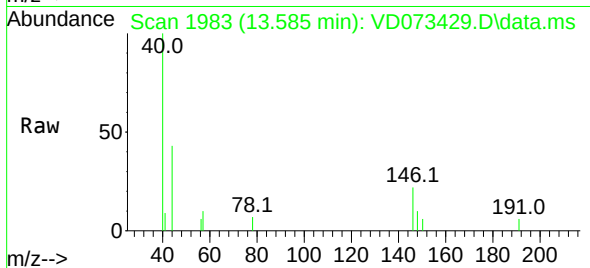
Lab File: VD073429.D

Acq: 31 May 2022 17:11

Instrument :

MSVOA_D

ClientSampleId :



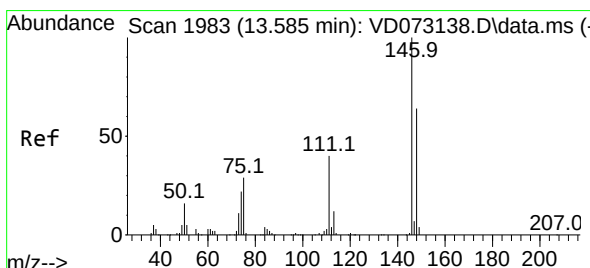
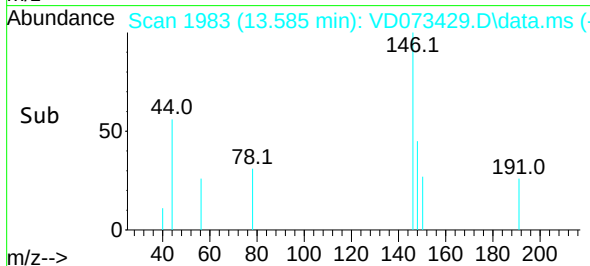
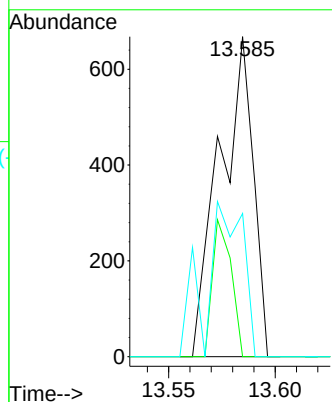
Tgt Ion:146 Resp: 733

Ion Ratio Lower Upper

146 100

111 23.7 20.4 61.3

148 53.1 31.9 95.7



#88

1,4-Dichlorobenzene

Concen: 8.642 ug/l

RT: 13.585 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VD073429.D

Acq: 31 May 2022 17:11

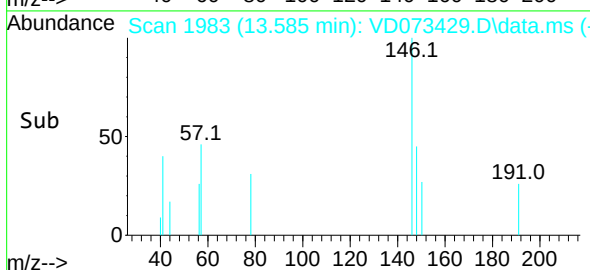
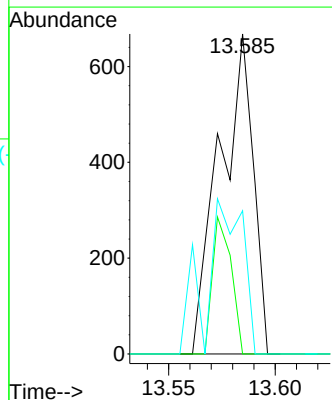
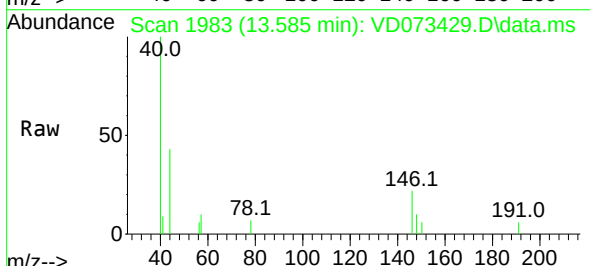
Tgt Ion:146 Resp: 733

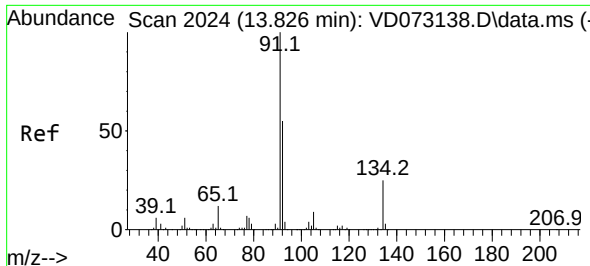
Ion Ratio Lower Upper

146 100

111 23.7 20.3 60.9

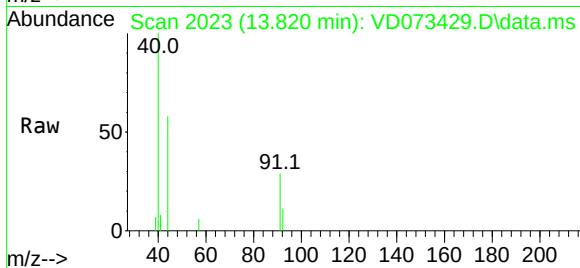
148 53.1 31.7 95.1



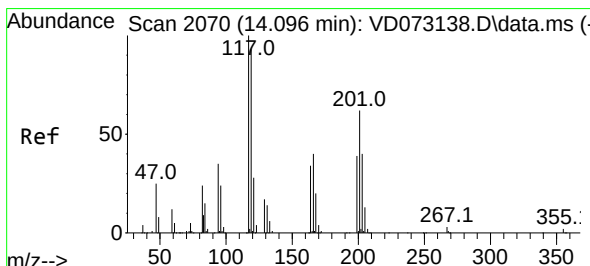
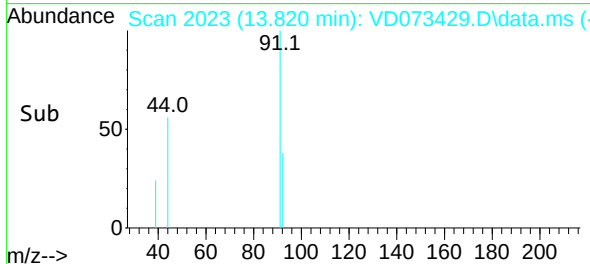
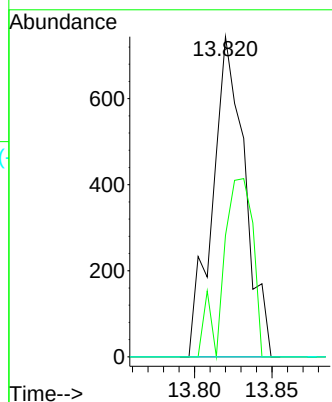


#89
n-Butylbenzene
Concen: 7.196 ug/l
RT: 13.820 min Scan# 2079
Delta R.T. -0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :

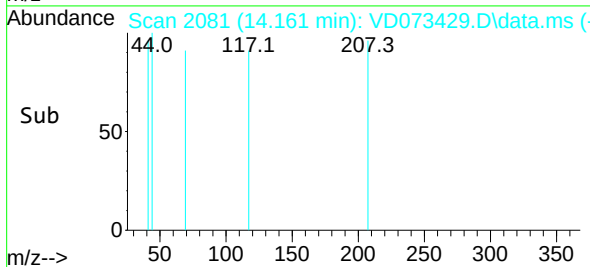
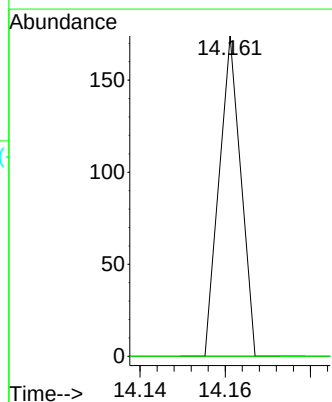
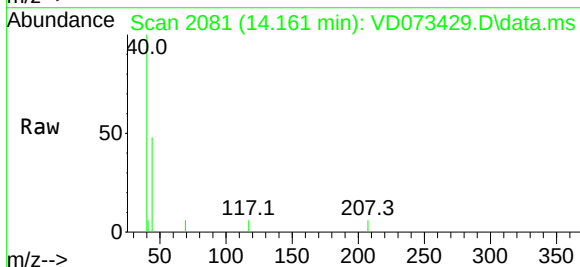


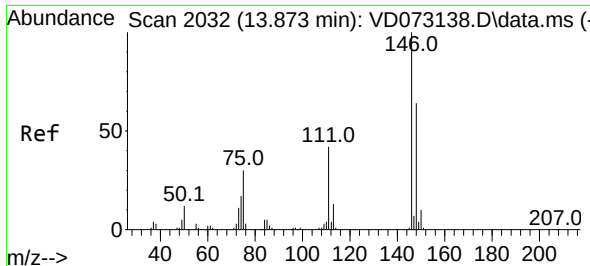
Tgt Ion: 91 Resp: 1079
Ion Ratio Lower Upper
91 100
92 51.3 26.6 79.8
134 0.0 12.3 36.9#



#90
Hexachloroethane
Concen: 1.873 ug/l
RT: 14.161 min Scan# 2081
Delta R.T. 0.065 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

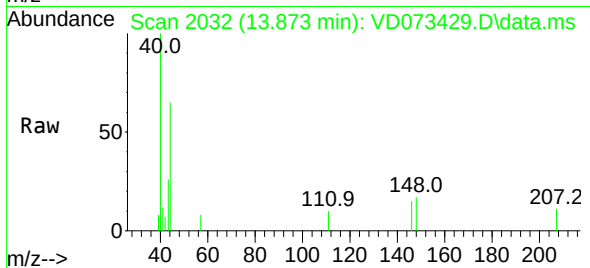
Tgt Ion: 117 Resp: 61
Ion Ratio Lower Upper
117 100
201 0.0 33.4 100.2#



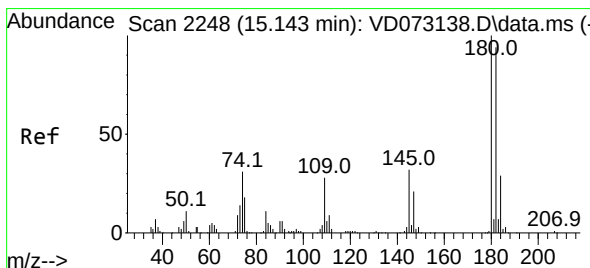
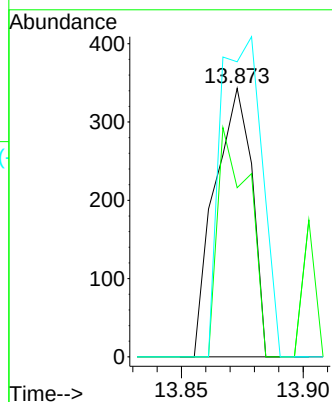
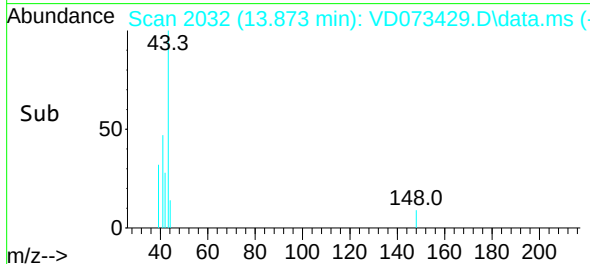


#91
1,2-Dichlorobenzene
Concen: 5.034 ug/l
RT: 13.873 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

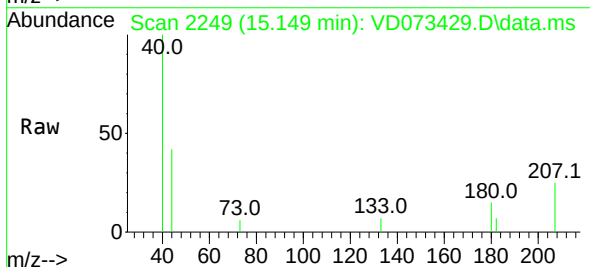
Instrument :
MSVOA_D
ClientSampleId :



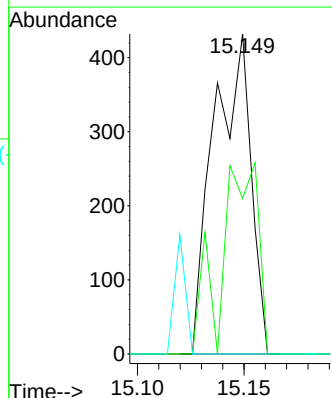
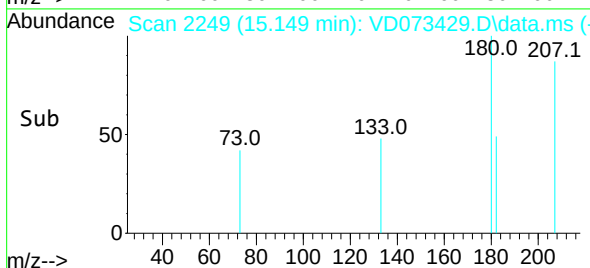
Tgt Ion:146 Resp: 366
Ion Ratio Lower Upper
146 100
111 71.6 21.1 63.3#
148 132.0 31.7 95.1#

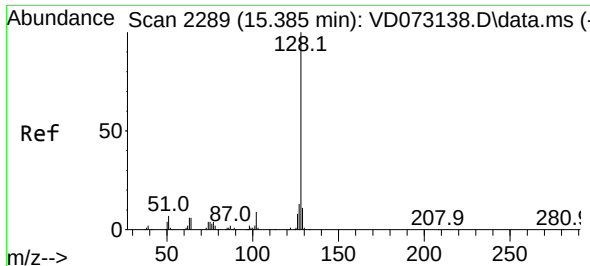


#93
1,2,4-Trichlorobenzene
Concen: 12.672 ug/l
RT: 15.149 min Scan# 2249
Delta R.T. 0.006 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11



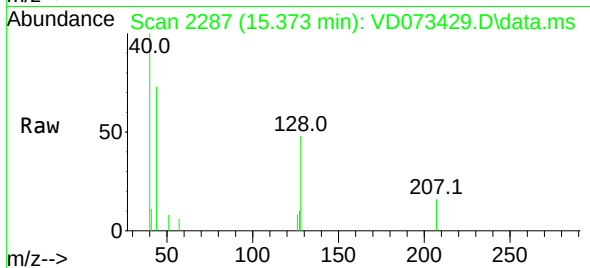
Tgt Ion:180 Resp: 523
Ion Ratio Lower Upper
180 100
182 59.8 47.3 142.0
145 0.0 16.2 48.5#



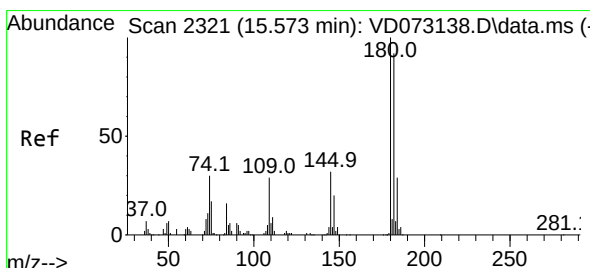
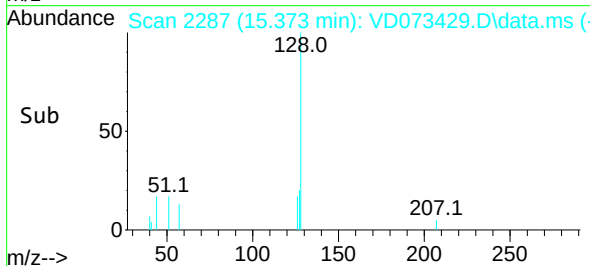
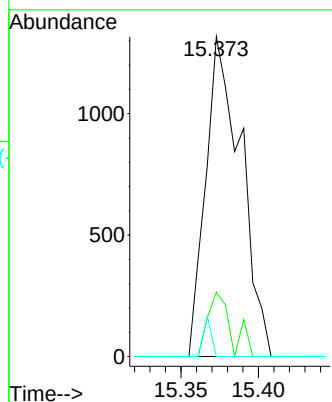


#95
Naphthalene
Concen: 27.329 ug/l
RT: 15.373 min Scan# 21
Delta R.T. -0.012 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 2081
Ion Ratio Lower Upper
128 100
127 13.4 10.3 15.5
129 2.8 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 5.193 ug/l
RT: 15.555 min Scan# 2318
Delta R.T. -0.018 min
Lab File: VD073429.D
Acq: 31 May 2022 17:11

Tgt Ion:180 Resp: 190
Ion Ratio Lower Upper
180 100
182 0.0 47.6 142.9#
145 0.0 17.1 51.3#

