

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120919\
 Data File : VD064472.D
 Acq On : 09 Dec 2019 13:36
 Operator : VA/SY
 Sample : VD1209SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 02:44:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	470546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	683767	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	616762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	302941	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	220797	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
35) Dibromofluoromethane	7.92	113	231070	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	
50) Toluene-d8	10.34	98	869443	53.58	ug/l	0.00
Spiked Amount			Recovery	=	107.16%	
62) 4-Bromofluorobenzene	12.64	95	274544	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	90994	21.342	ug/l	99
3) Chloromethane	2.21	50	115179	21.418	ug/l	98
4) Vinyl Chloride	2.35	62	136233	21.941	ug/l	100
5) Bromomethane	2.76	94	91040	19.827	ug/l	98
6) Chloroethane	2.92	64	88611	21.352	ug/l	98
7) Trichlorofluoromethane	3.27	101	225557	21.852	ug/l	95
8) Diethyl Ether	3.71	74	46285	21.579	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	97548	22.041	ug/l	98
10) Methyl Iodide	4.29	142	98021	20.973	ug/l	98
11) Tert butyl alcohol	5.26	59	29127	107.434	ug/l #	100
12) 1,1-Dichloroethene	4.06	96	92485	21.806	ug/l	92
13) Acrolein	3.93	56	33950	91.807	ug/l	99
14) Allyl chloride	4.71	41	143731	21.715	ug/l	99
15) Acrylonitrile	5.43	53	96054	102.409	ug/l	97
16) Acetone	4.17	43	87094	101.192	ug/l	99
17) Carbon Disulfide	4.40	76	284681	21.193	ug/l	97
18) Methyl Acetate	4.73	43	53785	21.424	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	199178	20.473	ug/l	96
20) Methylene Chloride	4.96	84	104095	21.246	ug/l	88
21) trans-1,2-Dichloroethene	5.47	96	103288	21.529	ug/l	97
22) Diisopropyl ether	6.37	45	275903	21.115	ug/l	97
23) Vinyl Acetate	6.31	43	789531	102.492	ug/l	100
24) 1,1-Dichloroethane	6.27	63	168847	21.487	ug/l	98
25) 2-Butanone	7.23	43	120775	99.225	ug/l	98
26) 2,2-Dichloropropane	7.21	77	151650	22.191	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	111876	21.390	ug/l	98
28) Bromochloromethane	7.55	49	45830	17.065	ug/l	94
29) Tetrahydrofuran	7.57	42	82876	107.019	ug/l	97
30) Chloroform	7.71	83	171888	21.121	ug/l	99
31) Cyclohexane	7.99	56	166091	21.604	ug/l	92
32) 1,1,1-Trichloroethane	7.91	97	163231	21.634	ug/l	99
36) 1,1-Dichloropropene	8.11	75	137557	21.269	ug/l	98
37) Ethyl Acetate	7.30	43	59409	21.648	ug/l	97
38) Carbon Tetrachloride	8.10	117	145790	21.358	ug/l	98

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	171107	21.328	ug/l	98
40) Benzene	8.35	78	380480	21.181	ug/l	99
41) Methacrylonitrile	7.53	41	26941	17.118	ug/l #	72
42) 1,2-Dichloroethane	8.43	62	110189	21.035	ug/l	99
43) Isopropyl Acetate	8.46	43	109335	20.263	ug/l	100
44) Trichloroethene	9.11	130	115681	21.379	ug/l	96
45) 1,2-Dichloropropane	9.39	63	93310	21.720	ug/l	99
46) Dibromomethane	9.47	93	50134	20.677	ug/l	99
47) Bromodichloromethane	9.66	83	134555	21.598	ug/l	95
48) Methyl methacrylate	9.46	41	50537	20.468	ug/l	94
49) 1,4-Dioxane	9.47	88	12560	419.494	ug/l	92
51) 4-Methyl-2-Pentanone	10.23	43	277424	103.912	ug/l	99
52) Toluene	10.40	92	243268	20.780	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	125914	21.207	ug/l	100
54) cis-1,3-Dichloropropene	10.09	75	149937	21.257	ug/l	96
55) 1,1,2-Trichloroethane	10.80	97	67016	20.185	ug/l	97
56) Ethyl methacrylate	10.66	69	86361	20.395	ug/l	99
57) 1,3-Dichloropropane	10.95	76	119703	21.180	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	180413	106.878	ug/l	99
59) 2-Hexanone	10.99	43	185592	100.182	ug/l	100
60) Dibromochloromethane	11.14	129	93596	20.792	ug/l	99
61) 1,2-Dibromoethane	11.25	107	67579	20.386	ug/l	100
64) Tetrachloroethene	10.88	164	99941	21.249	ug/l	94
65) Chlorobenzene	11.67	112	261167	20.303	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.74	131	97677	20.512	ug/l	100
67) Ethyl Benzene	11.75	91	467828	20.440	ug/l	99
68) m/p-Xylenes	11.86	106	357651	40.983	ug/l	100
69) o-Xylene	12.18	106	162317	20.140	ug/l	98
70) Styrene	12.20	104	286909	20.485	ug/l	99
71) Bromoform	12.37	173	55959	19.642	ug/l #	100
73) Isopropylbenzene	12.48	105	446254	20.482	ug/l	100
74) N-amyl acetate	12.29	43	96345	19.483	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	73135	20.298	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	96089	38.570	ug/l #	100
77) Bromobenzene	12.77	156	112399	20.890	ug/l	99
78) n-propylbenzene	12.83	91	529560	21.065	ug/l	99
79) 2-Chlorotoluene	12.91	91	285122	20.612	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	368856	20.717	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	23335	20.424	ug/l	99
82) 4-Chlorotoluene	13.01	91	301829	20.609	ug/l	99
83) tert-Butylbenzene	13.23	119	324614	20.971	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	364676	20.369	ug/l	100
85) sec-Butylbenzene	13.41	105	439918	20.707	ug/l	99
86) p-Isopropyltoluene	13.52	119	408328	20.358	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	203544	19.932	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	204959	20.329	ug/l	99
89) n-Butylbenzene	13.85	91	374636	20.568	ug/l	99
90) Hexachloroethane	14.12	117	76787	20.469	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	178218	20.421	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	11428	18.464	ug/l	98

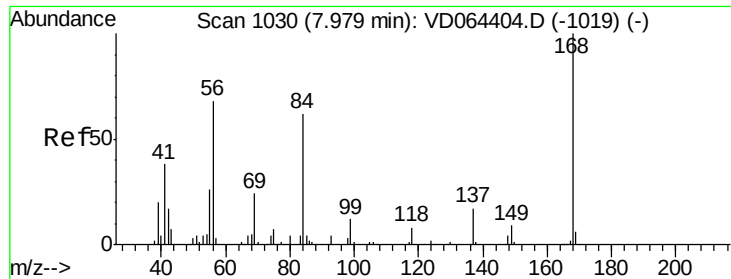
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD120919\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	134416	20.111	ug/l	100
94) Hexachlorobutadiene	15.28	225	81666	19.792	ug/l	99
95) Naphthalene	15.41	128	223677	20.053	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	113218	19.844	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

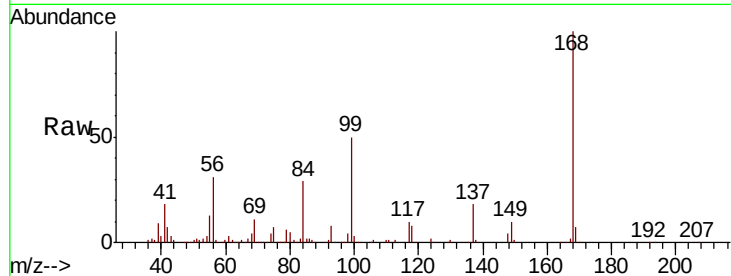
ClientSampleId :

Tot Ion:168 Resp: 470546

Ion Ratio Lower Upper

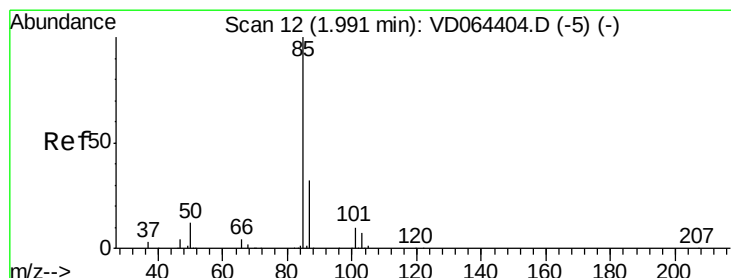
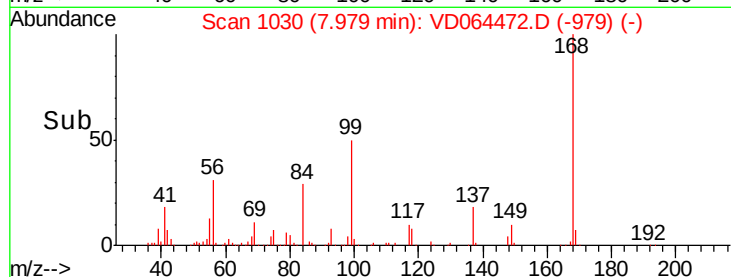
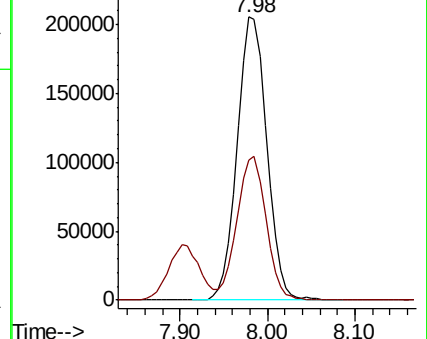
168 100

99 49.6 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 21.342 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064472.D

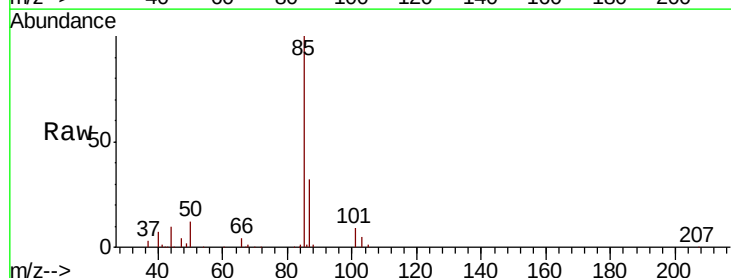
Acq: 09 Dec 2019 13:36

Tgt Ion: 85 Resp: 90994

Ion Ratio Lower Upper

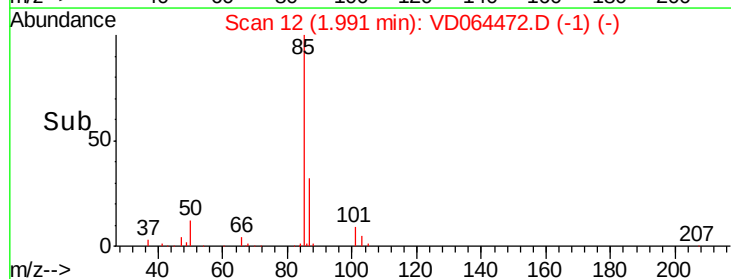
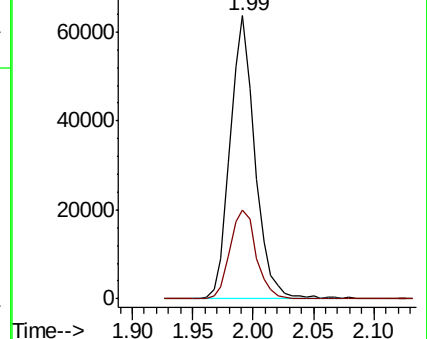
85 100

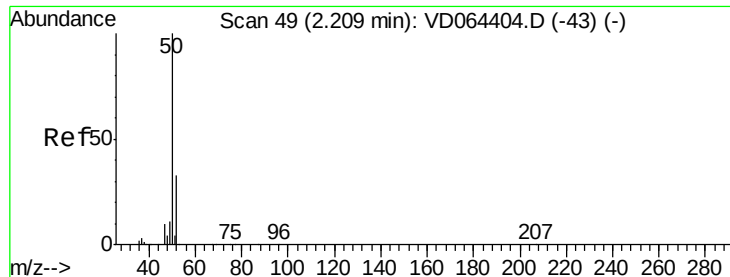
87 31.6 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

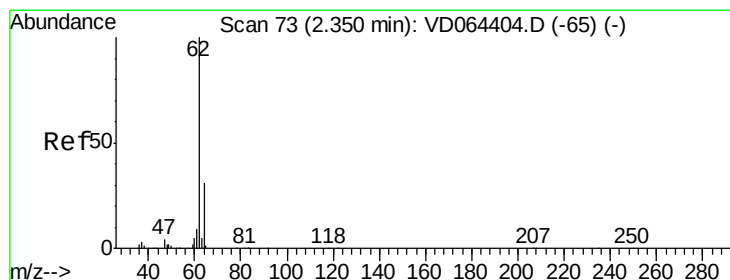
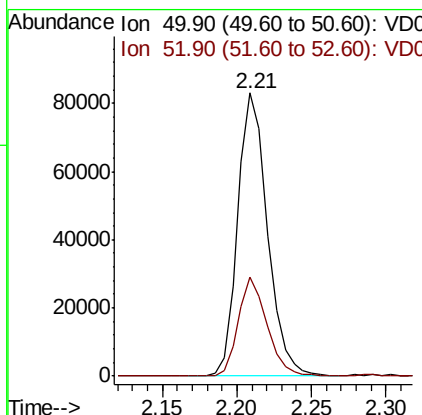
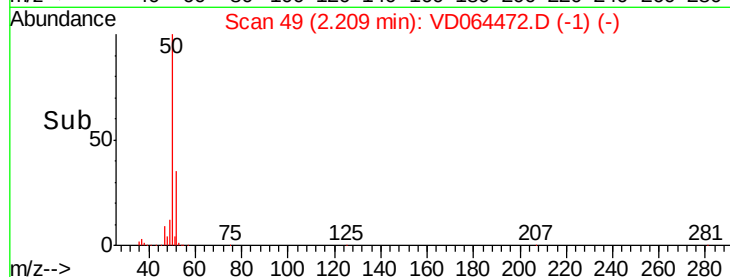
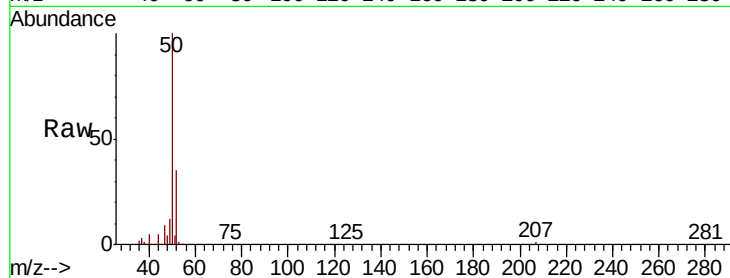




#3
Chloromethane
Concen: 21.418 ug/l
RT: 2.21 min Scan# 49
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

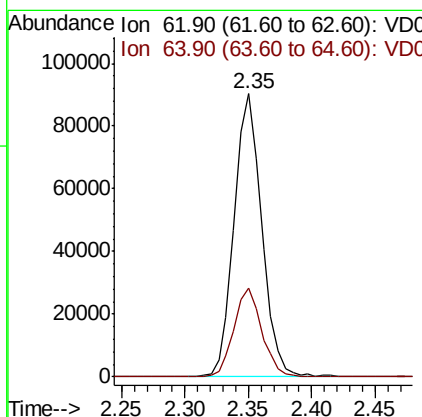
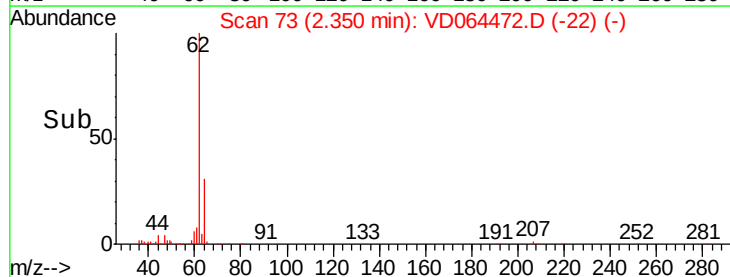
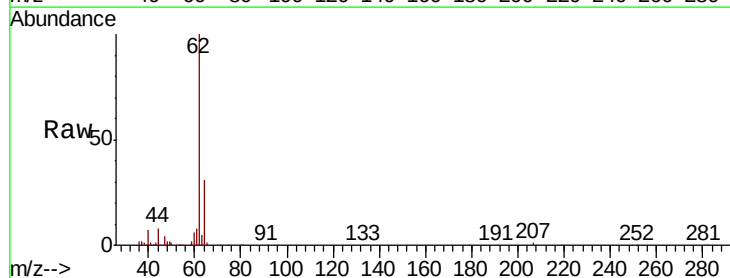
Instrument :
MSVOA_D
ClientSampleId :

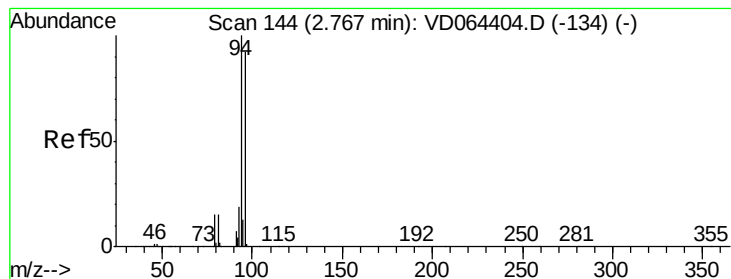
Tot Ion: 50 Resp: 115179
Ion Ratio Lower Upper
50 100
52 34.8 26.7 40.1



#4
Vinyl Chloride
Concen: 21.941 ug/l
RT: 2.35 min Scan# 73
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 62 Resp: 136233
Ion Ratio Lower Upper
62 100
64 31.3 25.0 37.4





#5

Bromomethane

Concen: 19.827 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

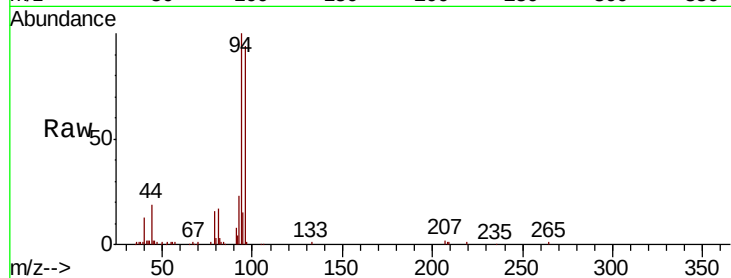
ClientSampleId :

Tot Ion: 94 Resp: 91040

Ion Ratio Lower Upper

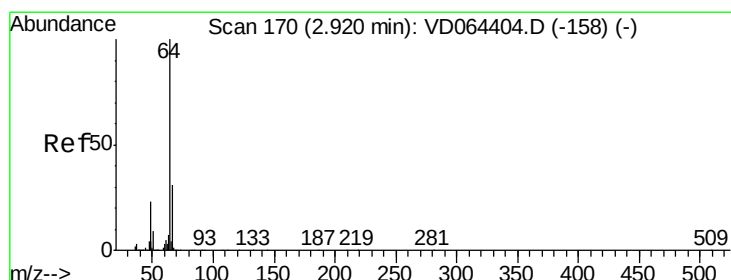
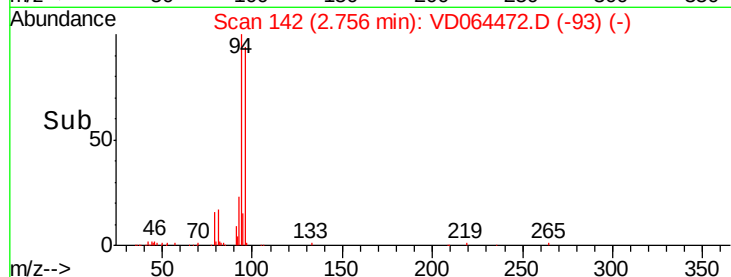
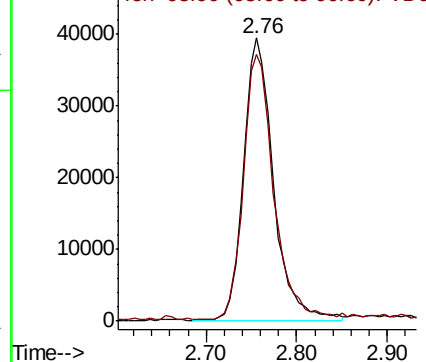
94 100

96 93.5 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 21.352 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064472.D

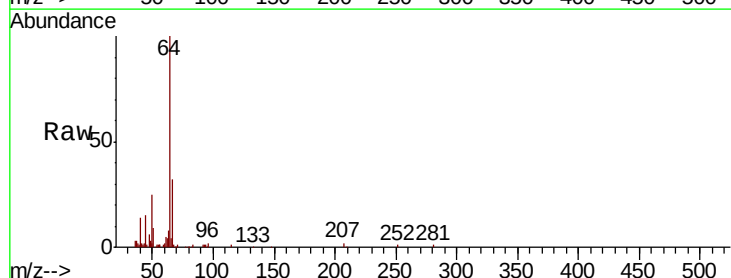
Acq: 09 Dec 2019 13:36

Tgt Ion: 64 Resp: 88611

Ion Ratio Lower Upper

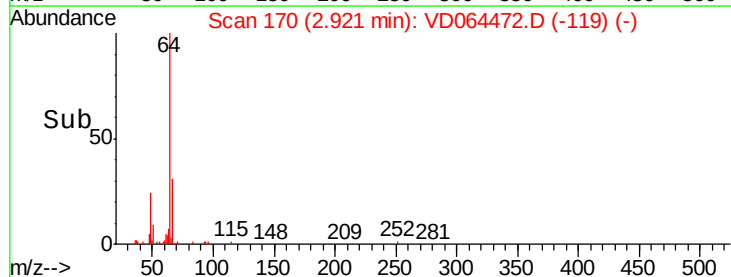
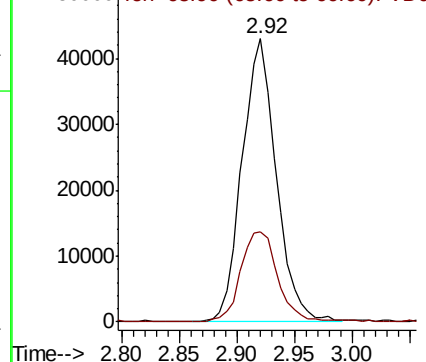
64 100

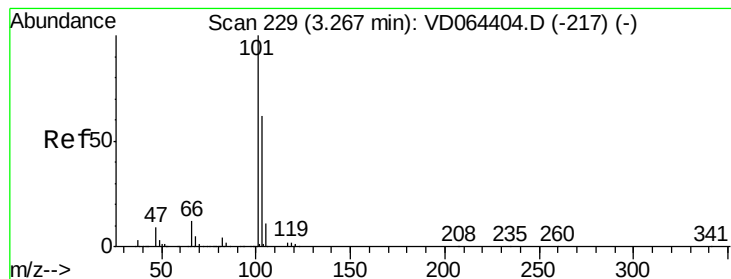
66 31.7 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



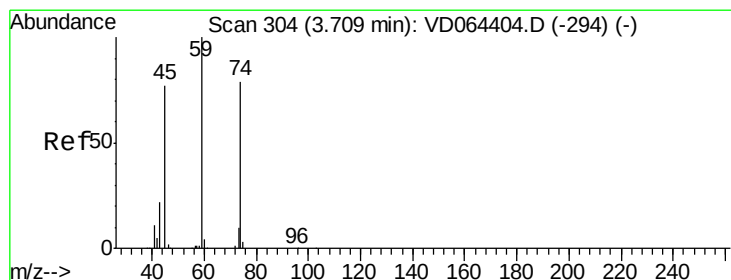
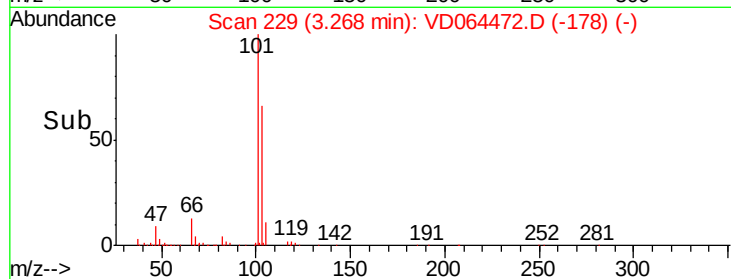
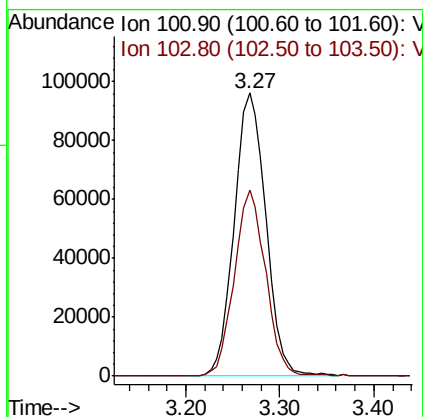
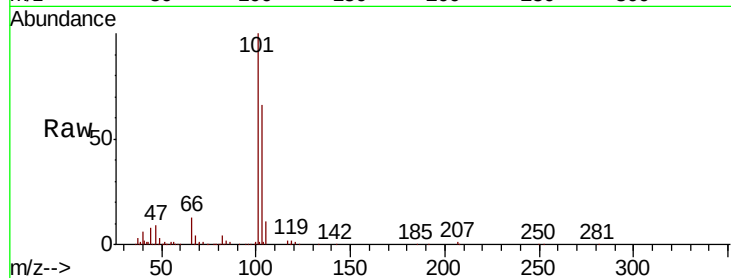


#7

Trichlorofluoromethane
 Concen: 21.852 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Instrument :
 MSVOA_D
 ClientSampleId :

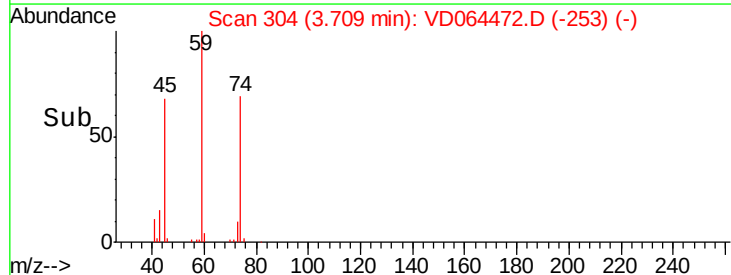
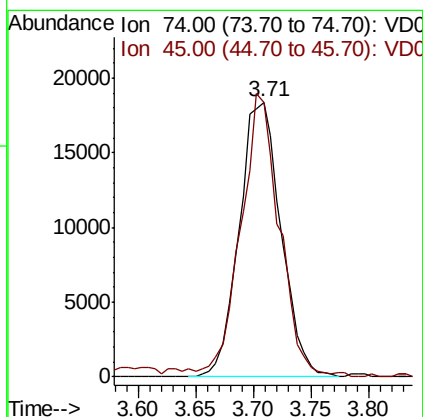
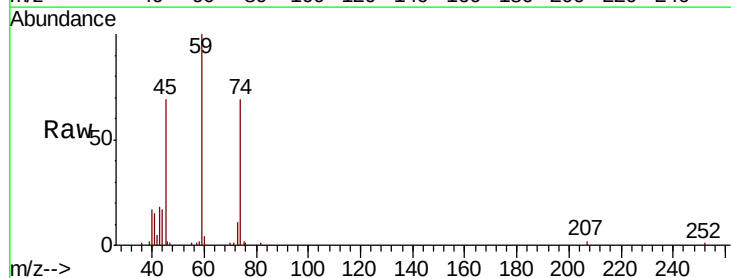
Tot Ion:101 Resp: 225557
 Ion Ratio Lower Upper
 101 100
 103 65.9 49.8 74.6

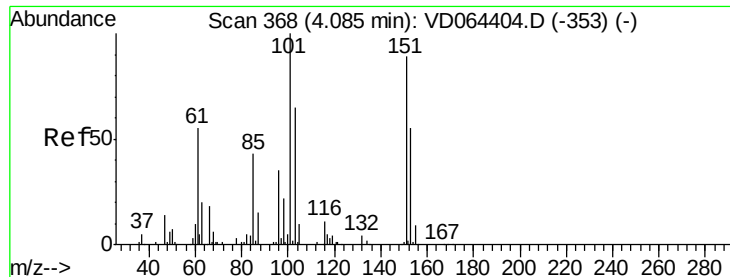


#8

Diethyl Ether
 Concen: 21.579 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion: 74 Resp: 46285
 Ion Ratio Lower Upper
 74 100
 45 95.6 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.041 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

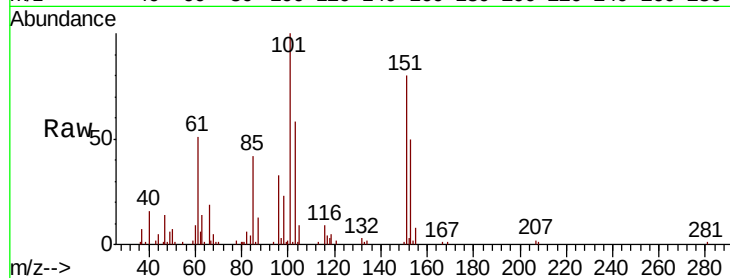
Tot Ion:101 Resp: 97548

Ion Ratio Lower Upper

101 100

85 44.7 34.8 52.2

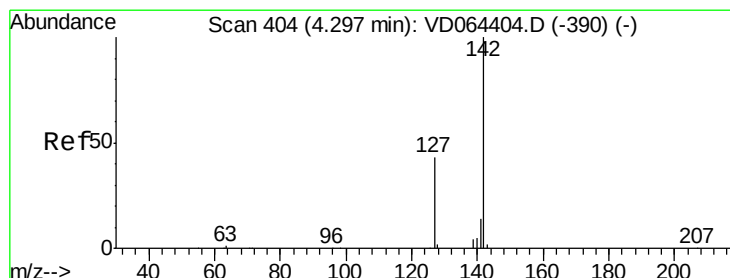
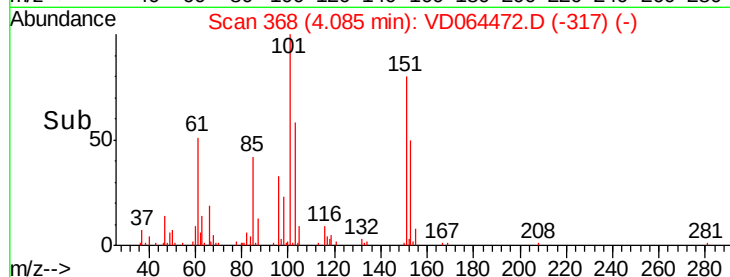
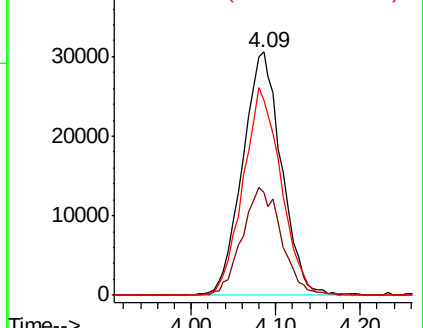
151 83.7 68.8 103.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.973 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

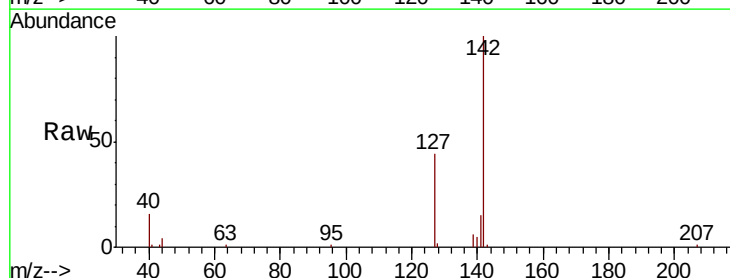
Tgt Ion:142 Resp: 98021

Ion Ratio Lower Upper

142 100

127 42.5 35.3 52.9

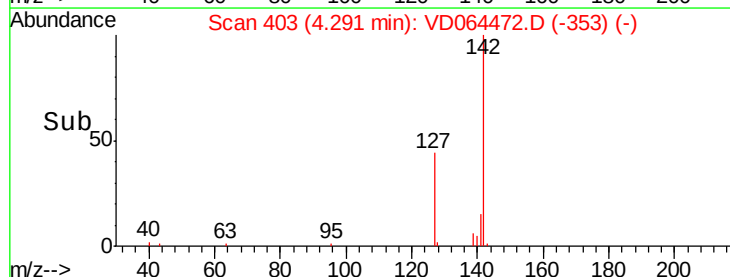
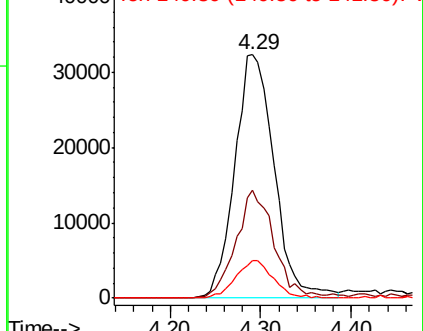
141 14.7 11.6 17.4

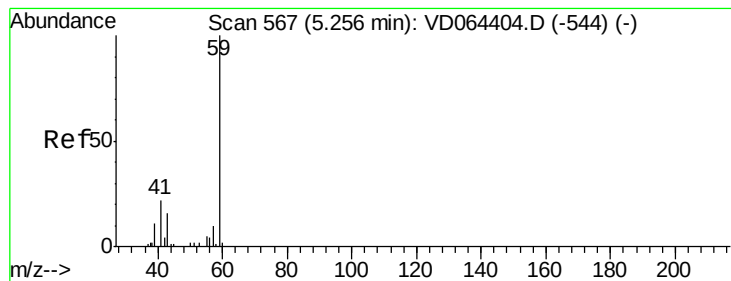


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



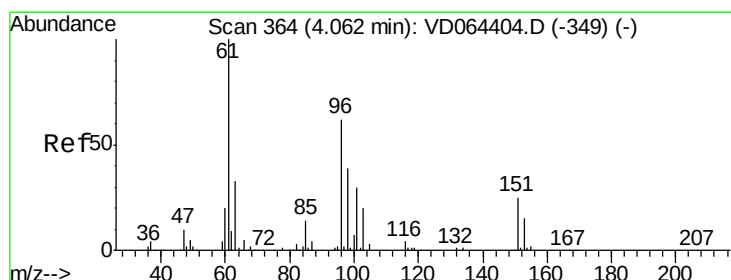
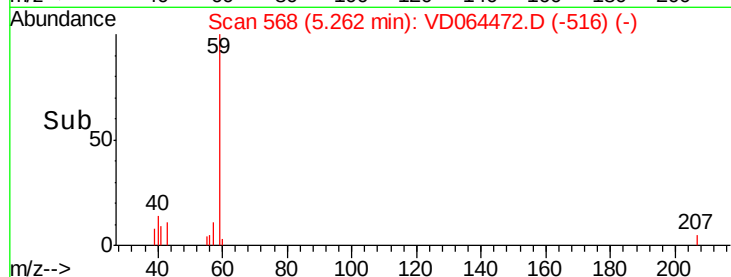
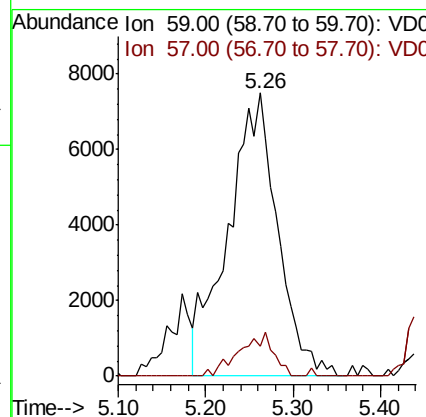
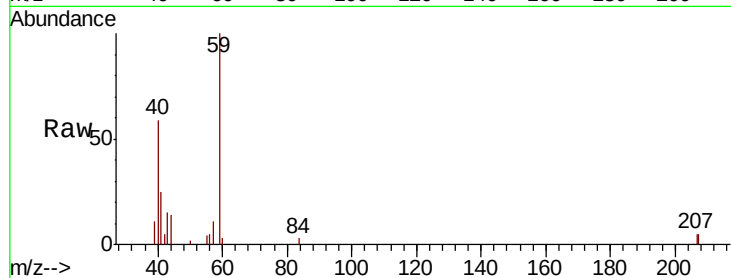


#11

Tert butyl alcohol
 Concen: 107.434 ug/l
 RT: 5.26 min Scan# 568
 Delta R.T. 0.01 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Instrument :
 MSVOA_D
 ClientSampleId :

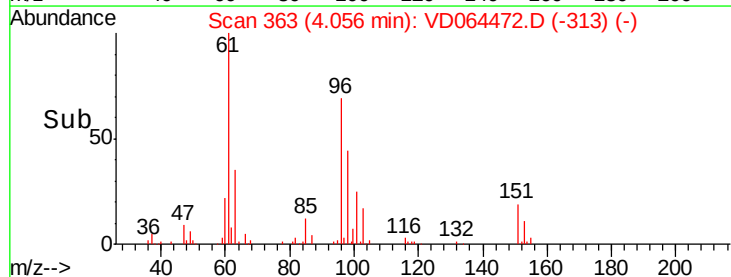
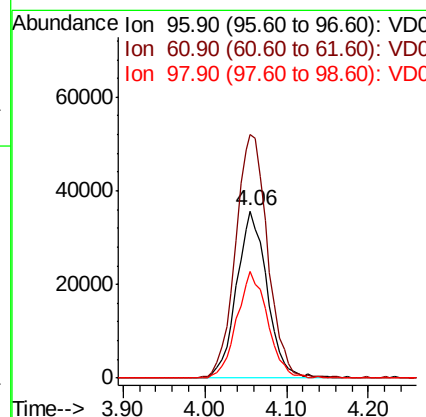
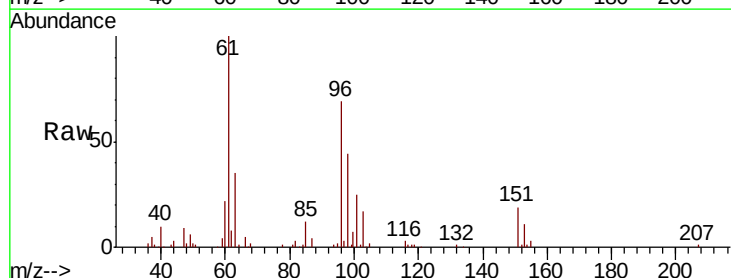
Tot Ion: 59 Resp: 29127
 Ion Ratio Lower Upper
 59 100
 57 10.5 0.0 0.0#

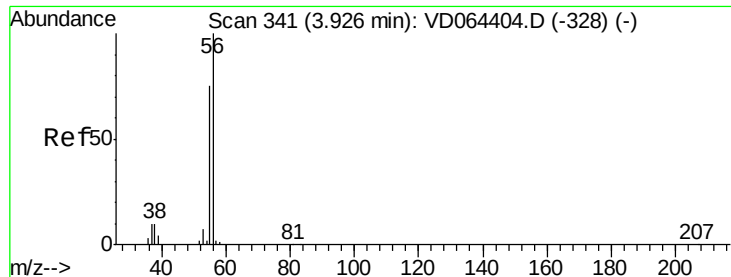


#12

1,1-Dichloroethene
 Concen: 21.806 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion: 96 Resp: 92485
 Ion Ratio Lower Upper
 96 100
 61 145.5 128.2 192.4
 98 63.9 50.4 75.6





#13

Acrolein

Concen: 91.807 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

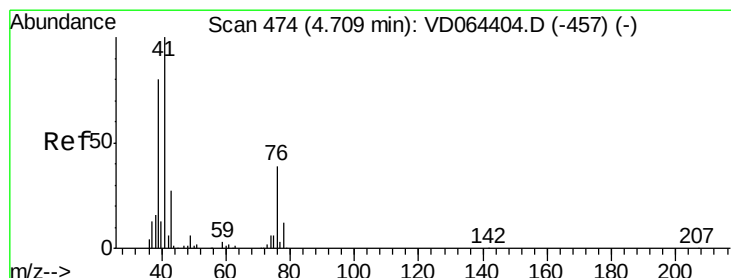
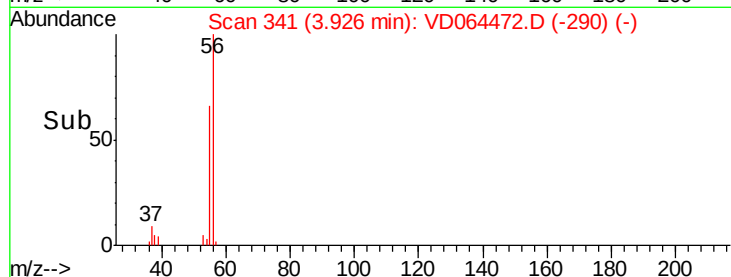
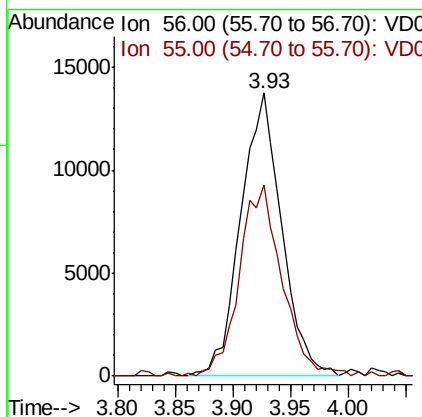
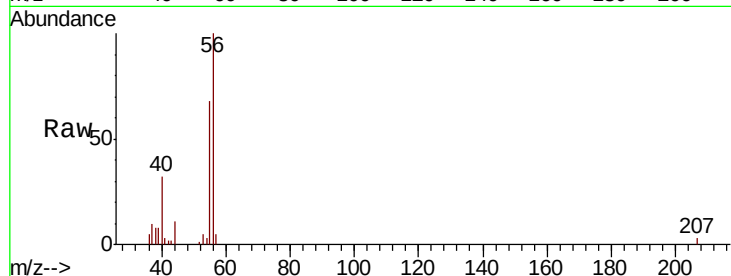
ClientSampled :

Tot Ion: 56 Resp: 33950

Ion Ratio Lower Upper

56 100

55 70.4 56.9 85.3



#14

Allyl chloride

Concen: 21.715 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

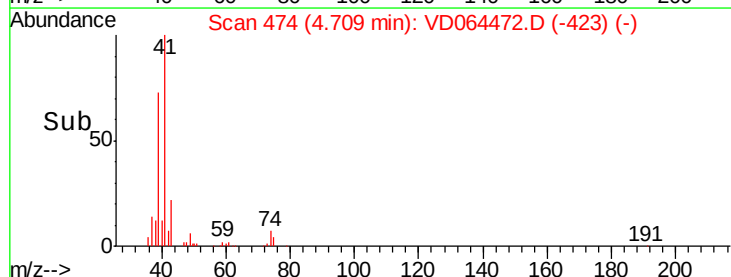
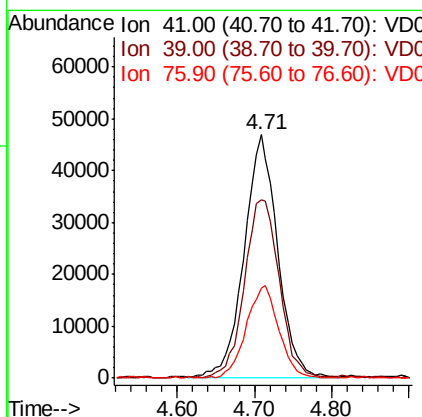
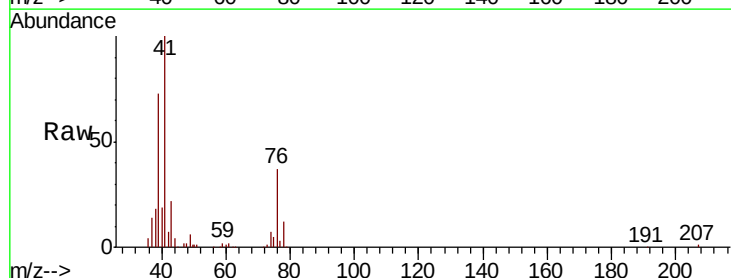
Tgt Ion: 41 Resp: 143731

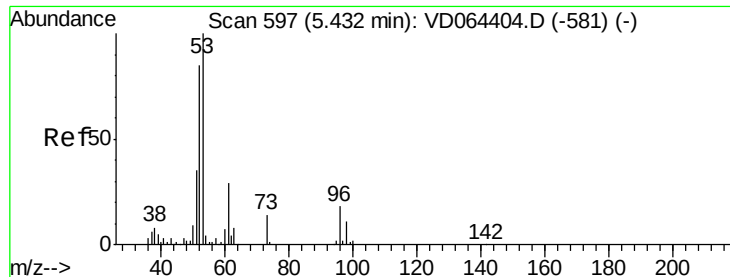
Ion Ratio Lower Upper

41 100

39 76.2 62.1 93.1

76 36.7 29.8 44.8





#15

Acrylonitrile

Concen: 102.409 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

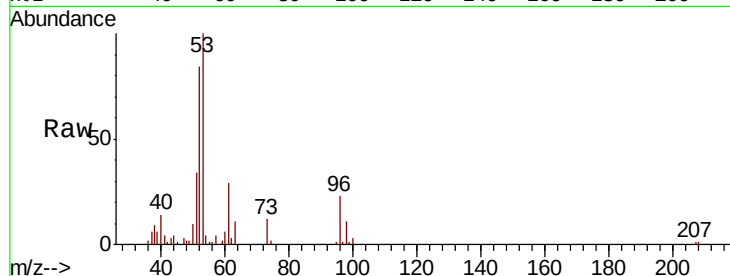
Tot Ion: 53 Resp: 96054

Ion Ratio Lower Upper

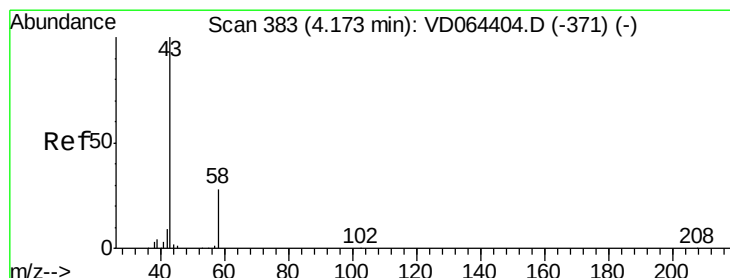
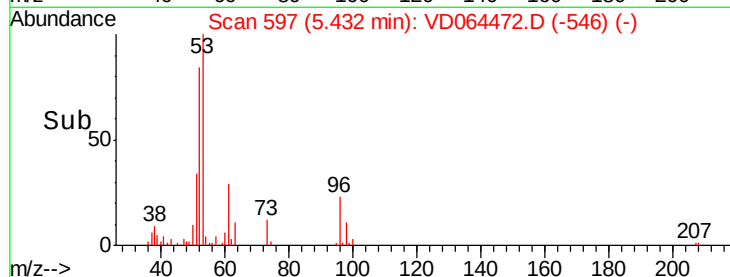
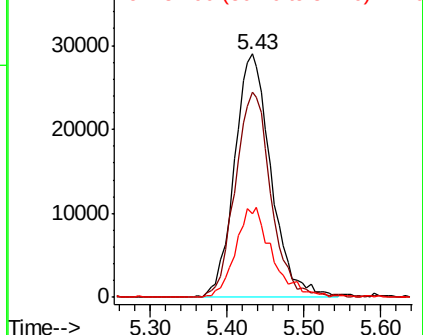
53 100

52 82.2 67.9 101.9

51 37.0 30.6 45.8



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 101.192 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064472.D

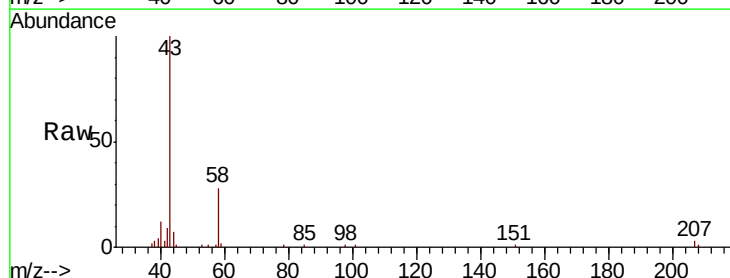
Acq: 09 Dec 2019 13:36

Tgt Ion: 43 Resp: 87094

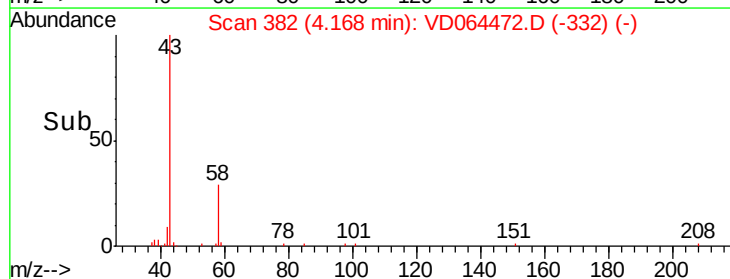
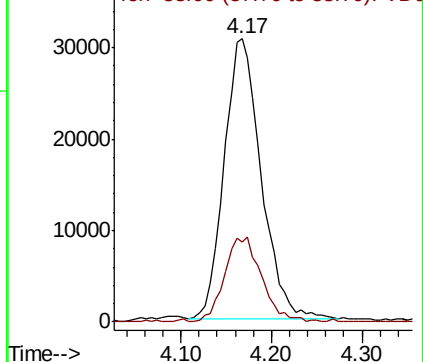
Ion Ratio Lower Upper

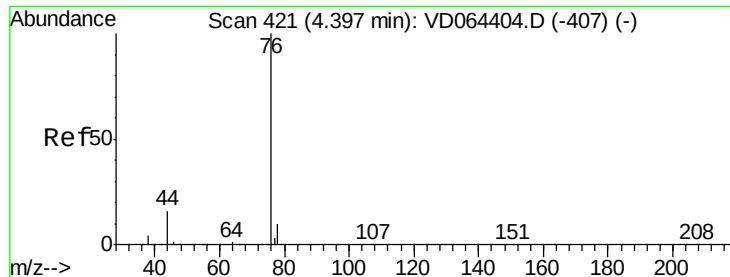
43 100

58 28.7 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

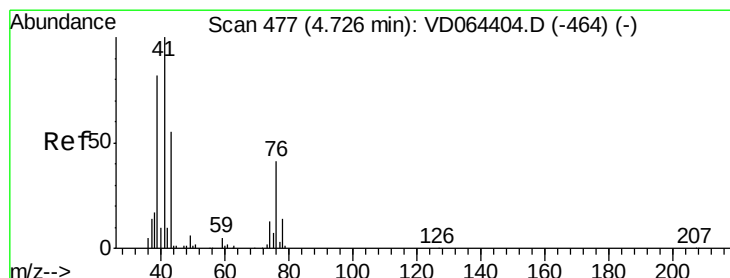
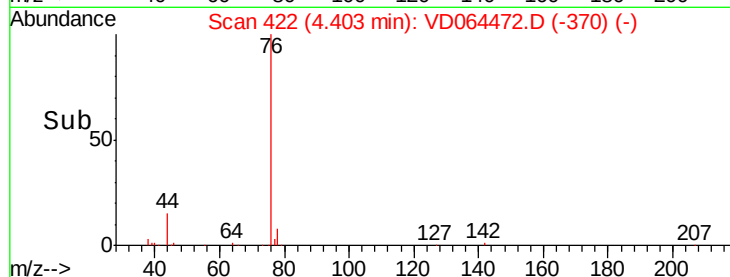
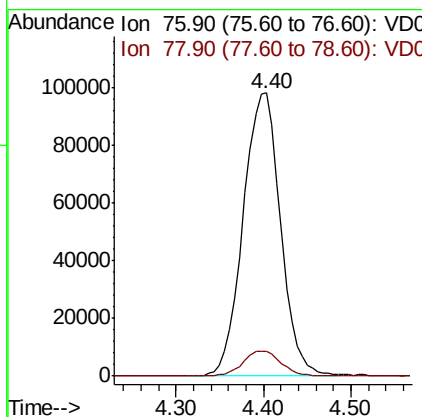
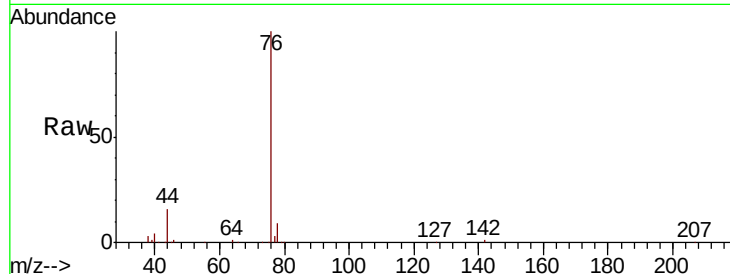




#17
Carbon Disulfide
Concen: 21.193 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

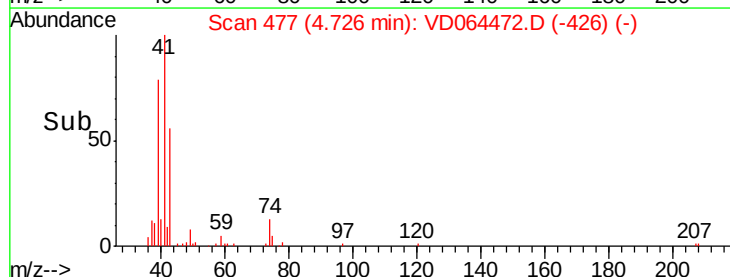
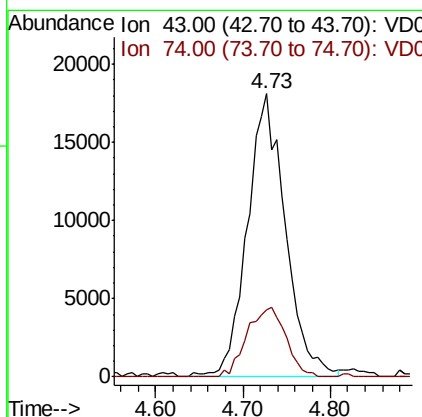
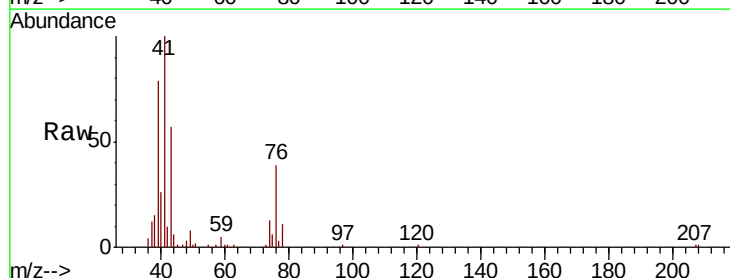
Instrument :
MSVOA_D
ClientSampleId :

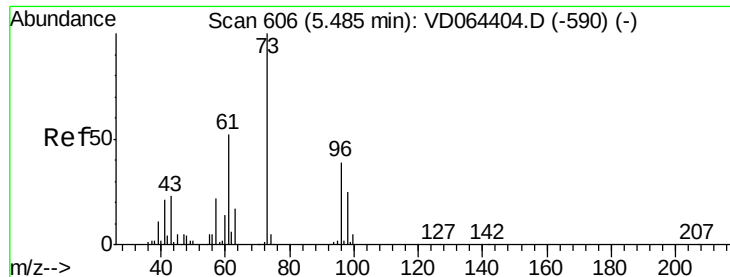
Tot Ion: 76 Resp: 284681
Ion Ratio Lower Upper
76 100
78 8.8 7.8 11.8



#18
Methyl Acetate
Concen: 21.424 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 43 Resp: 53785
Ion Ratio Lower Upper
43 100
74 25.1 19.7 29.5

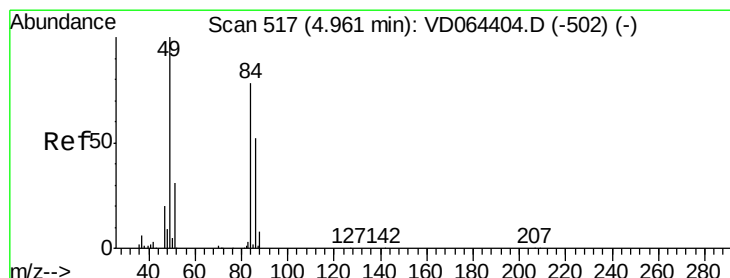
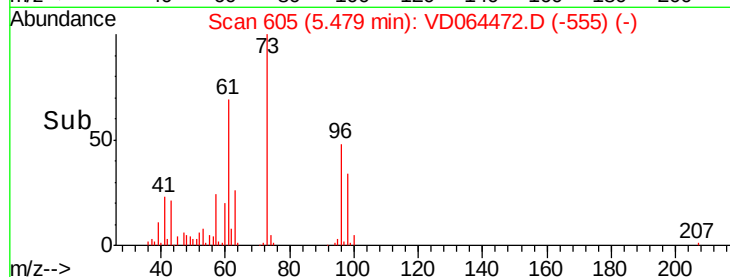
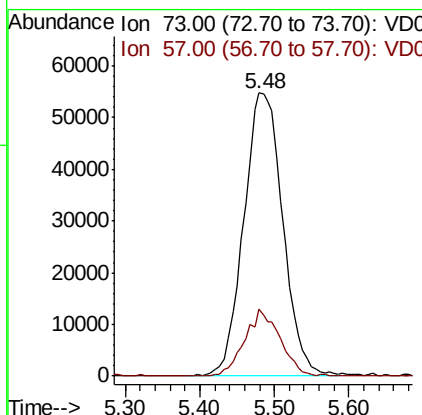
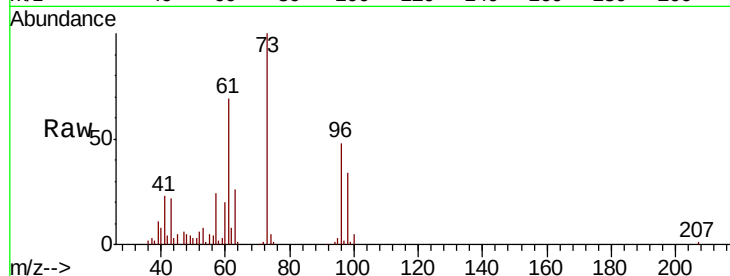




#19
Methyl tert-butyl Ether
Concen: 20.473 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

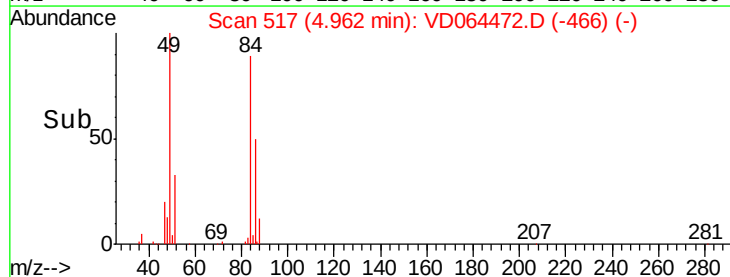
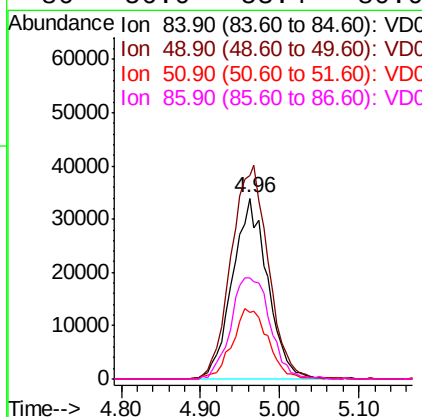
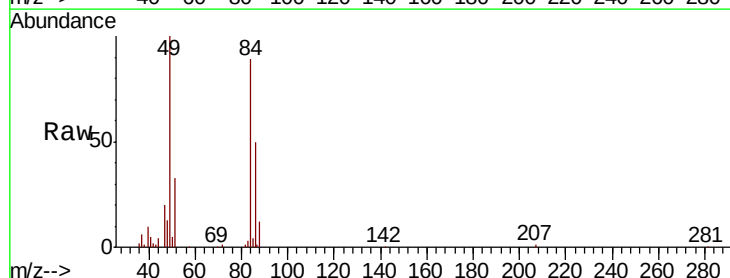
Instrument :
MSVOA_D
ClientSampled :

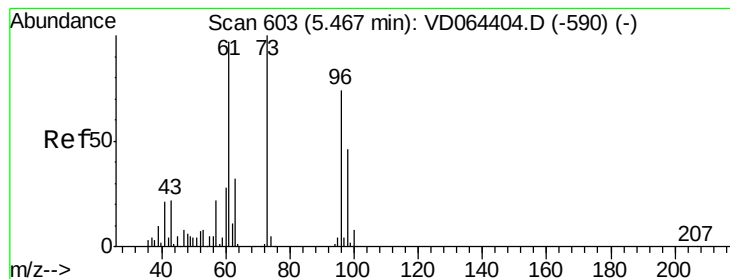
Tot Ion: 73 Resp: 199178
Ion Ratio Lower Upper
73 100
57 23.8 17.6 26.4



#20
Methylene Chloride
Concen: 21.246 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 84 Resp: 104095
Ion Ratio Lower Upper
84 100
49 112.6 102.6 153.8
51 36.9 32.0 48.0
86 56.0 53.4 80.0





#21

trans-1,2-Dichloroethene

Concen: 21.529 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :
MSVOA_D
ClientSampled :

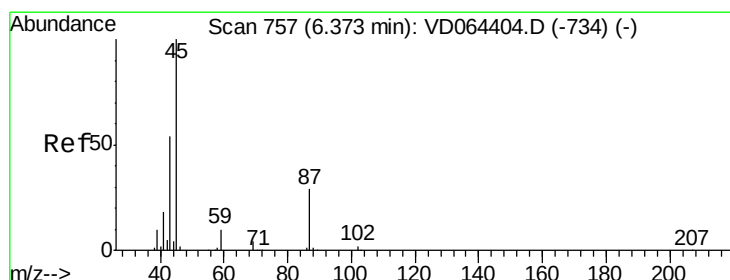
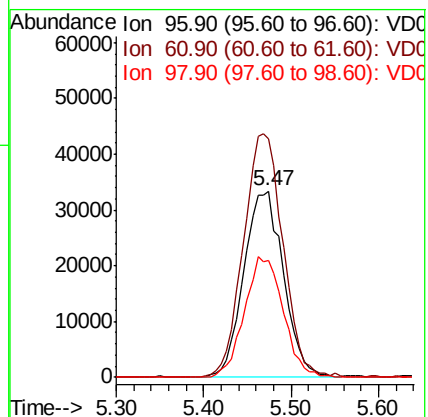
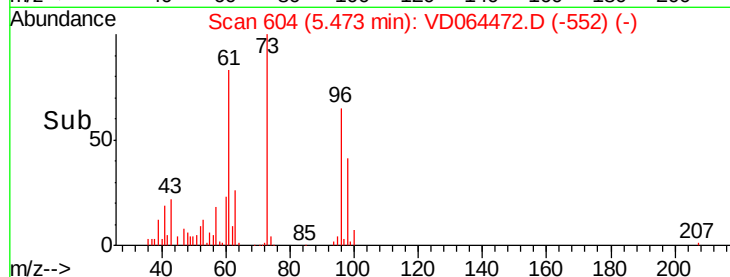
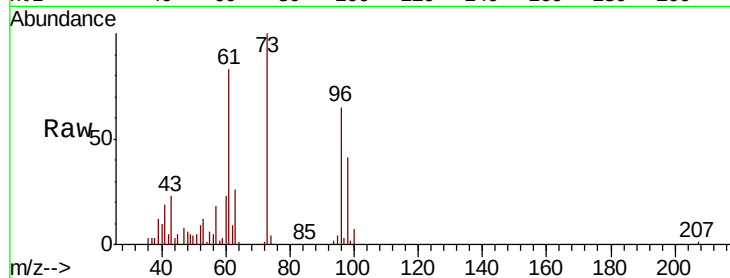
Tot Ion: 96 Resp: 103288

Ion Ratio Lower Upper

96 100

61 128.1 105.8 158.6

98 63.0 50.1 75.1



#22

Diisopropyl ether

Concen: 21.115 ug/l

RT: 6.37 min Scan# 757

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Tgt Ion: 45 Resp: 275903

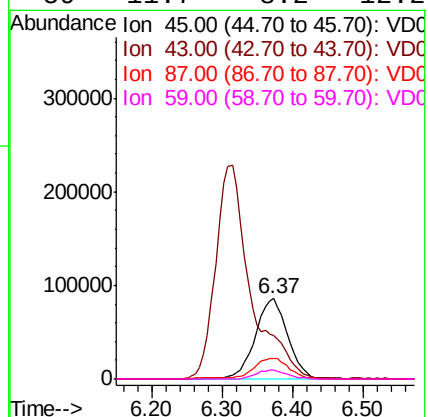
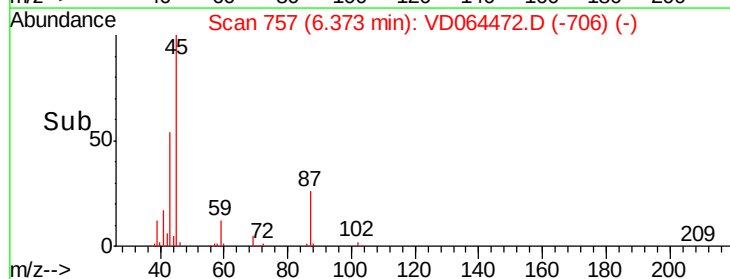
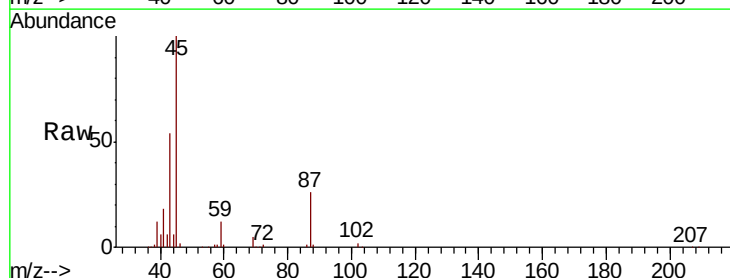
Ion Ratio Lower Upper

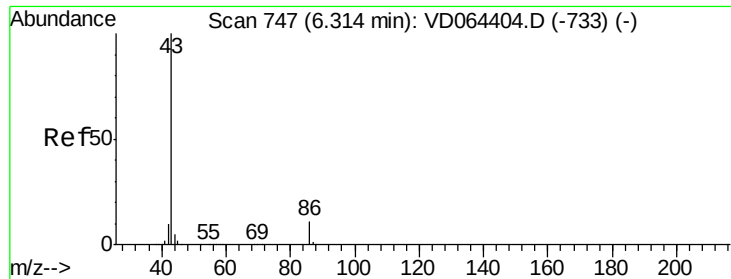
45 100

43 53.4 43.1 64.7

87 25.5 23.5 35.3

59 11.7 8.2 12.2





#23

Vinyl Acetate

Concen: 102.492 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

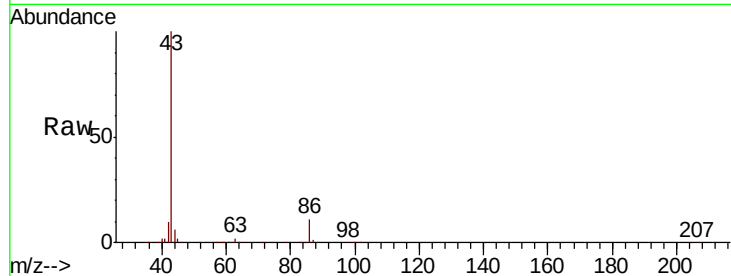
ClientSampled :

Tot Ion: 43 Resp: 789531

Ion Ratio Lower Upper

43 100

86 11.0 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

250000

200000

150000

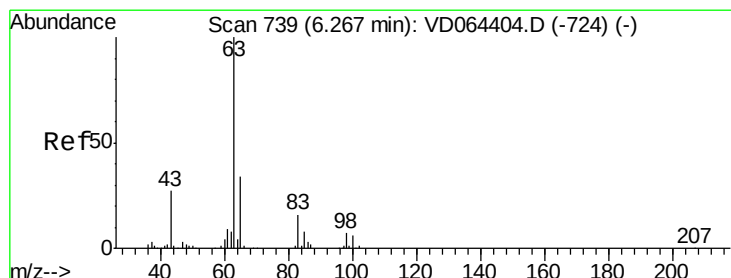
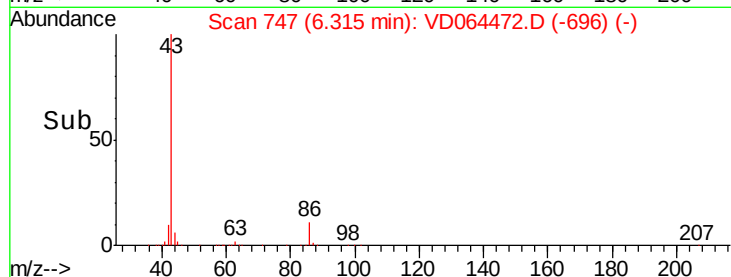
100000

50000

0

Time-->

6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 21.487 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

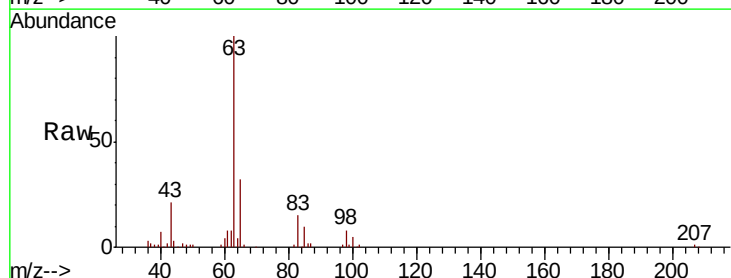
Tgt Ion: 63 Resp: 168847

Ion Ratio Lower Upper

63 100

98 7.8 3.6 10.9

100 4.6 2.9 8.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

60000

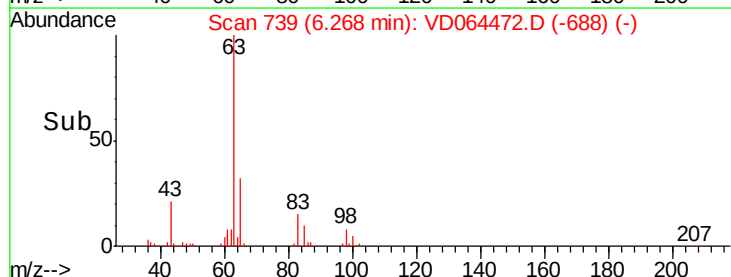
40000

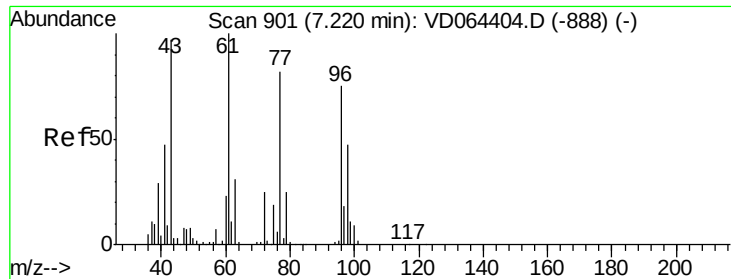
20000

0

Time-->

6.10 6.20 6.30 6.40





#25

2-Butanone

Concen: 99.225 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

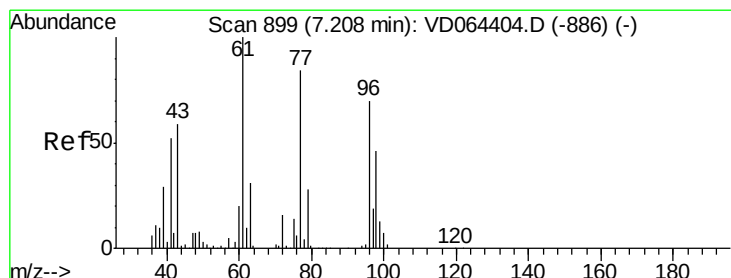
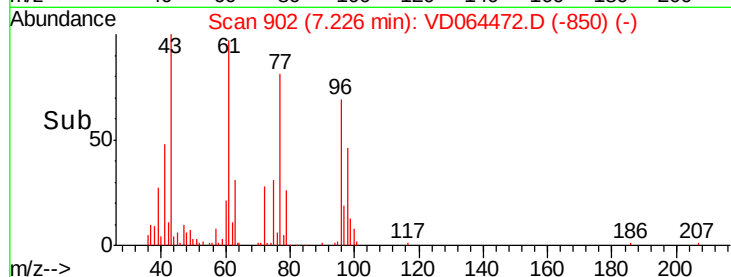
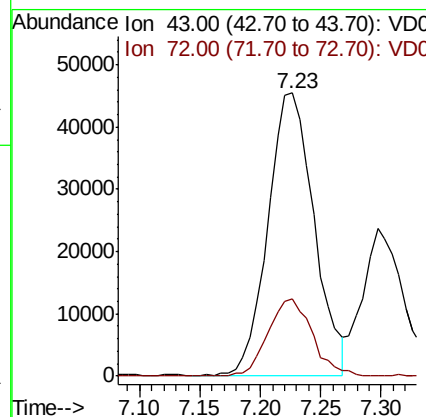
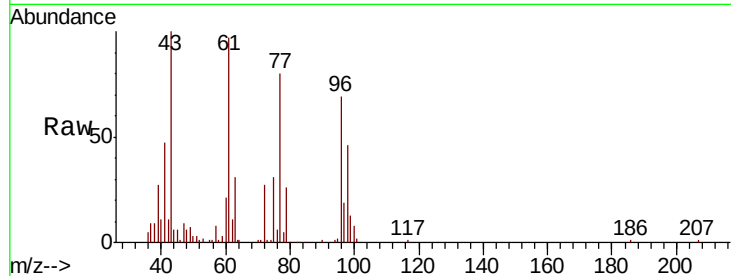
ClientSampled :

Tot Ion: 43 Resp: 120775

Ion Ratio Lower Upper

43 100

72 27.3 21.0 31.4



#26

2,2-Dichloropropane

Concen: 22.191 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064472.D

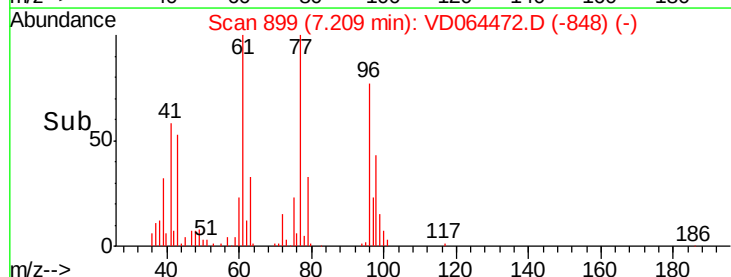
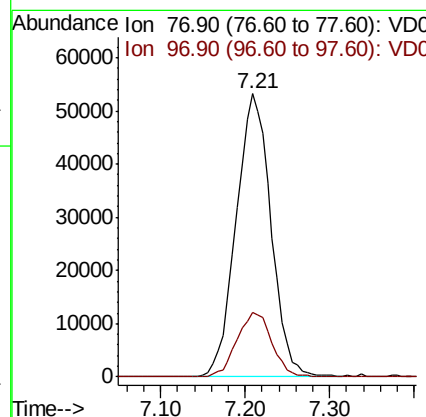
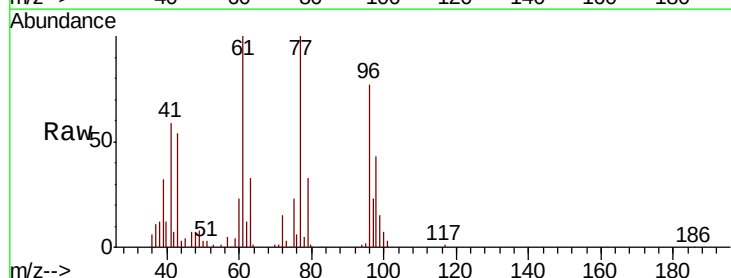
Acq: 09 Dec 2019 13:36

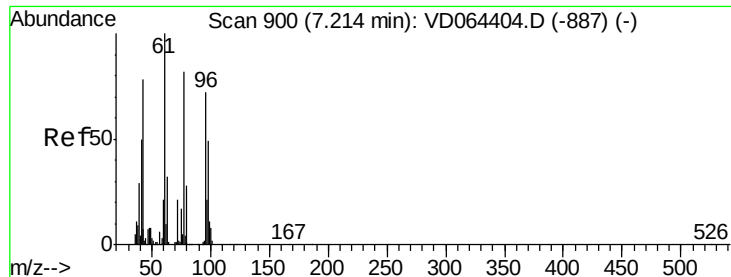
Tgt Ion: 77 Resp: 151650

Ion Ratio Lower Upper

77 100

97 22.7 11.6 34.7



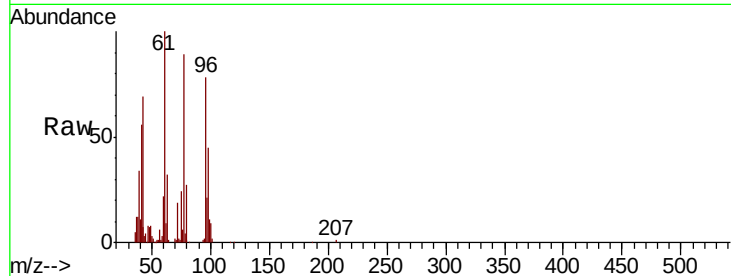


#27

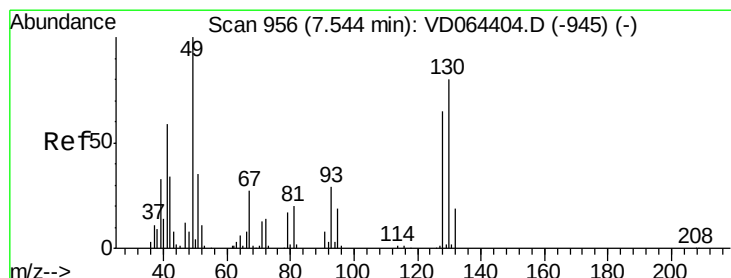
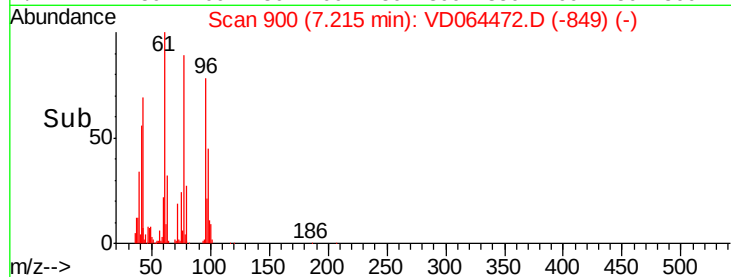
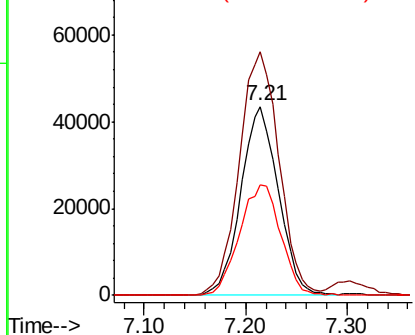
cis-1,2-Dichloroethene
Concen: 21.390 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	96	Resp	111876
Ion Ratio	Lower	Upper	
96	100		
61	136.6	0.0	279.6
98	63.8	0.0	129.2



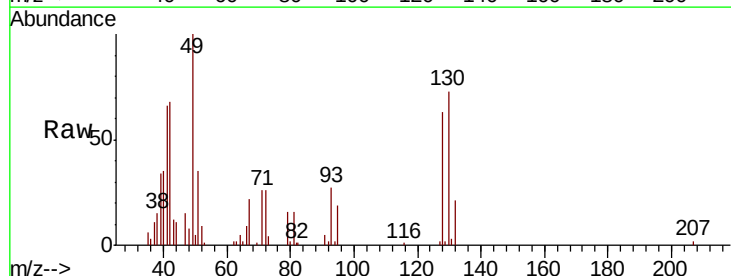
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



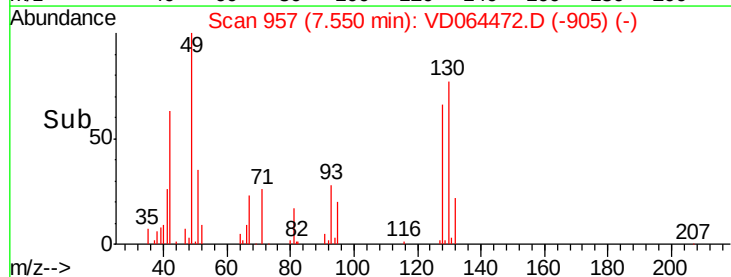
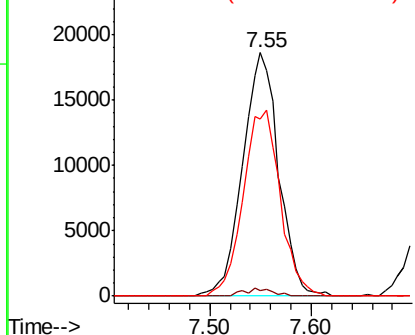
#28

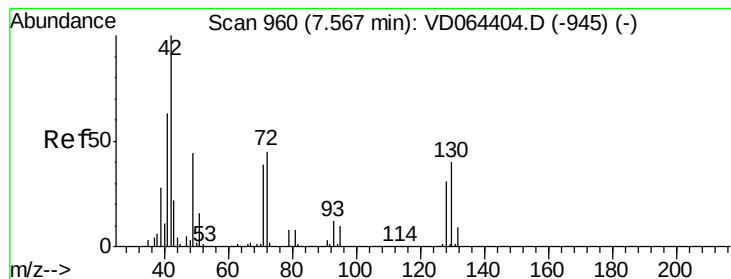
Bromochloromethane
Concen: 17.065 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.01 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion	49	Resp	45830
Ion Ratio	Lower	Upper	
49	100		
129	2.5	0.0	4.4
130	78.6	67.4	101.0



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 107.019 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

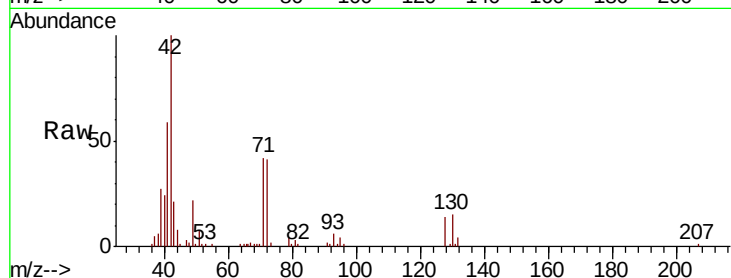
Tot Ion: 42 Resp: 82876

Ion Ratio Lower Upper

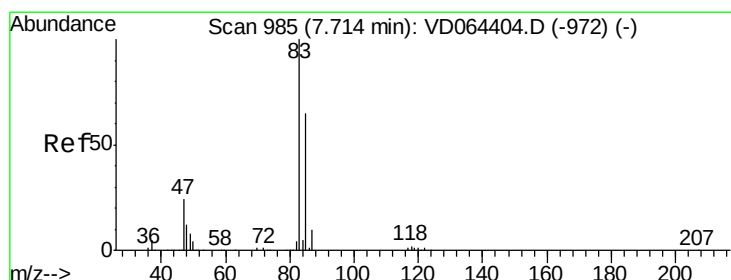
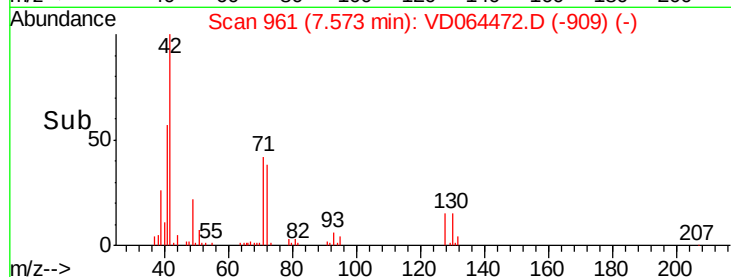
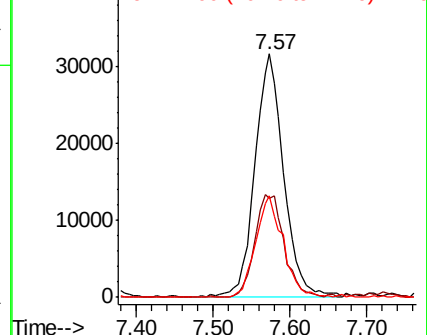
42 100

72 42.4 35.8 53.8

71 39.9 32.7 49.1



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 21.121 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064472.D

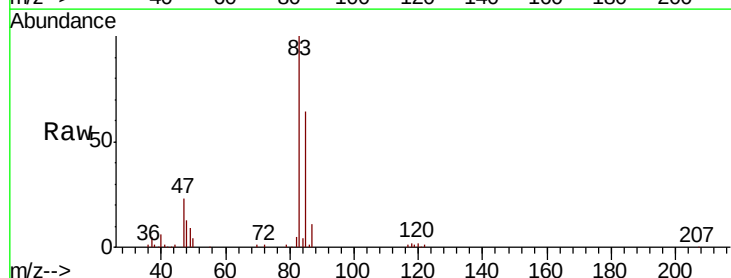
Acq: 09 Dec 2019 13:36

Tgt Ion: 83 Resp: 171888

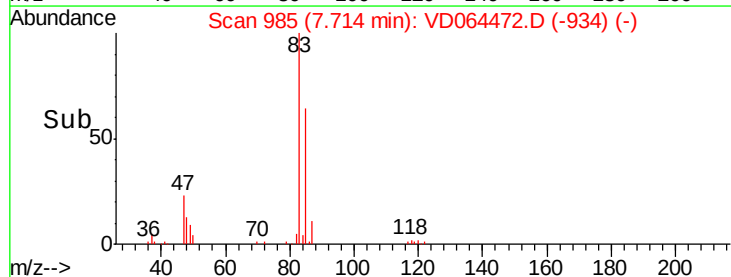
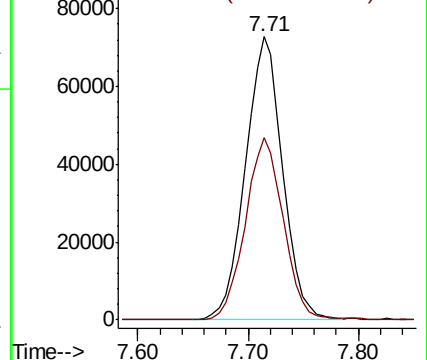
Ion Ratio Lower Upper

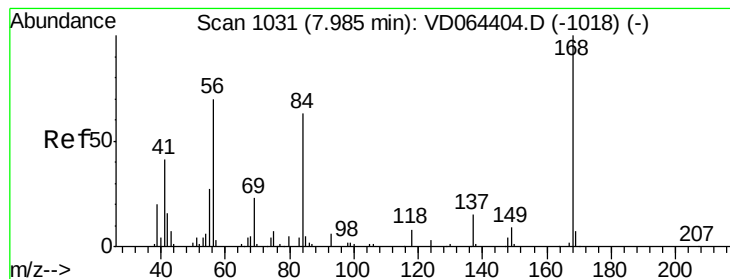
83 100

85 64.3 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC





#31

Cyclohexane

Concen: 21.604 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :
MSVOA_D
ClientSampled :

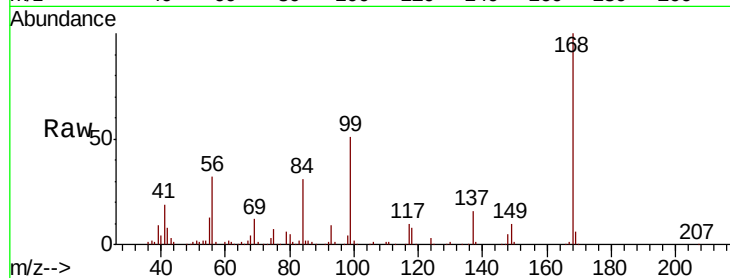
Tot Ion: 56 Resp: 166091

Ion Ratio Lower Upper

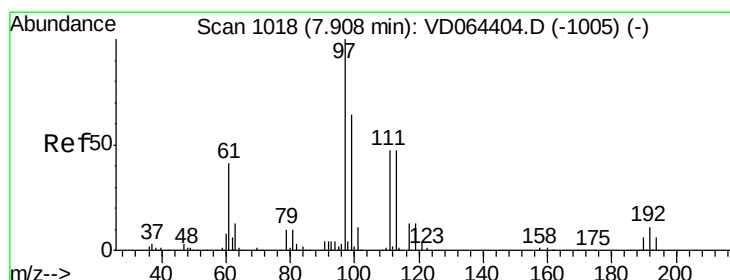
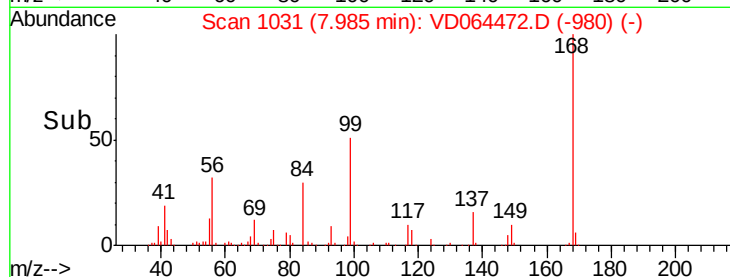
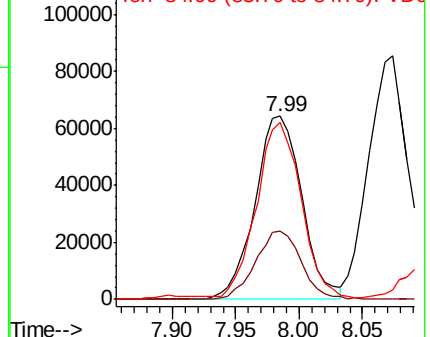
56 100

69 37.3 26.2 39.4

84 95.3 70.3 105.5



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC



#32

1,1,1-Trichloroethane

Concen: 21.634 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

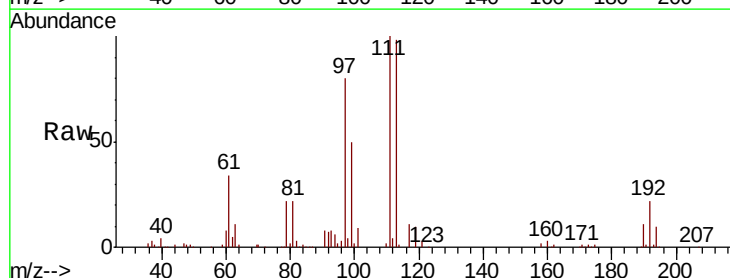
Tgt Ion: 97 Resp: 163231

Ion Ratio Lower Upper

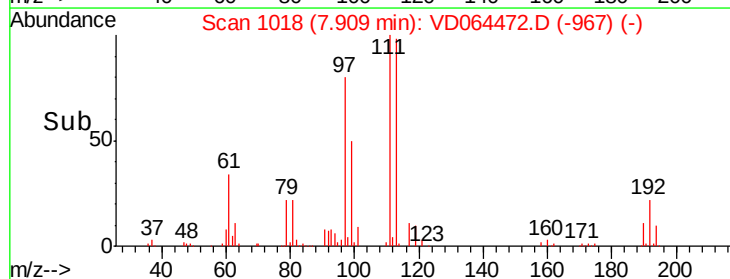
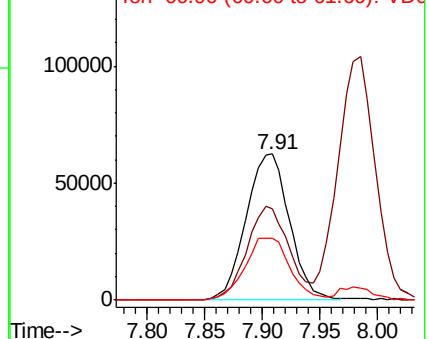
97 100

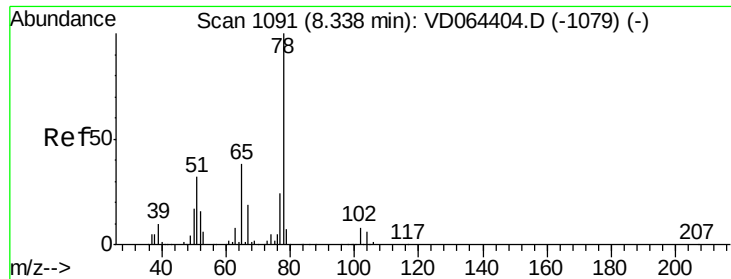
99 63.0 51.4 77.2

61 44.2 35.0 52.4



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC

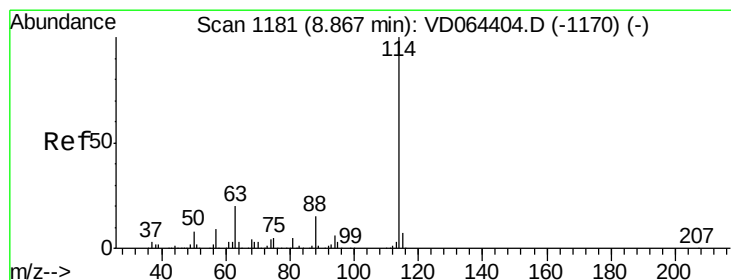
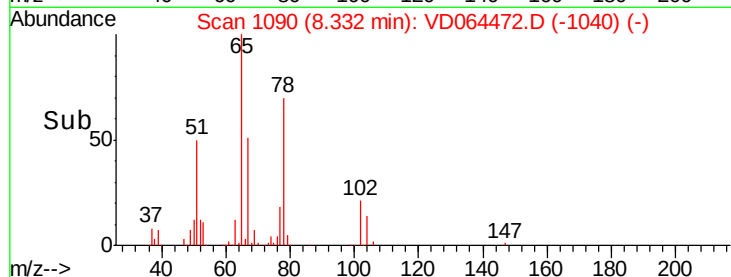
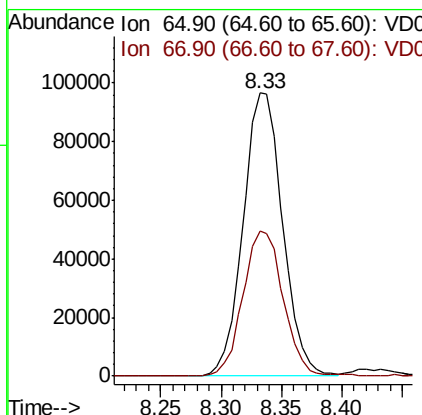
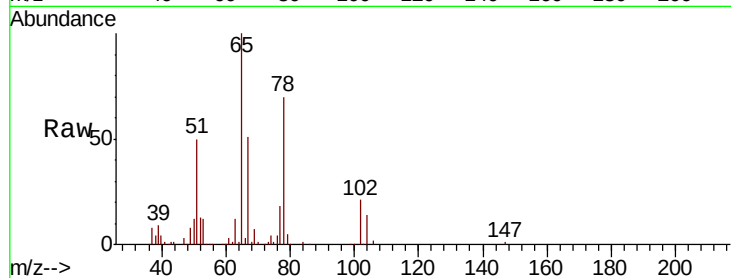




#33
 1,2-Dichloroethane-d4
 Concen: 51.841 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

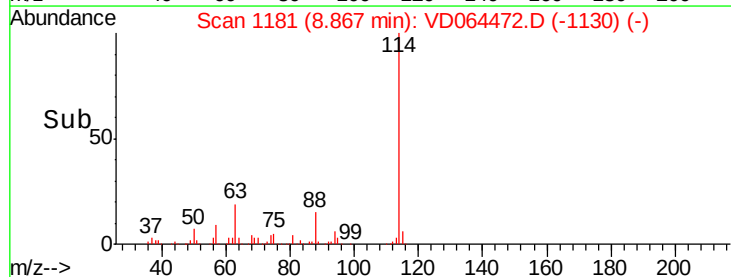
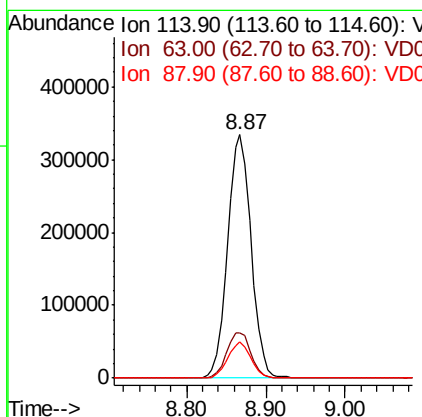
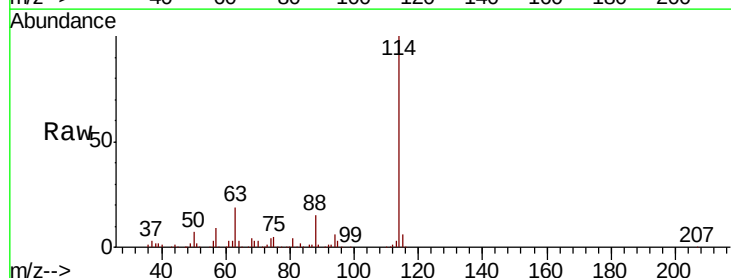
Instrument :
 MSVOA_D
 ClientSampleId :

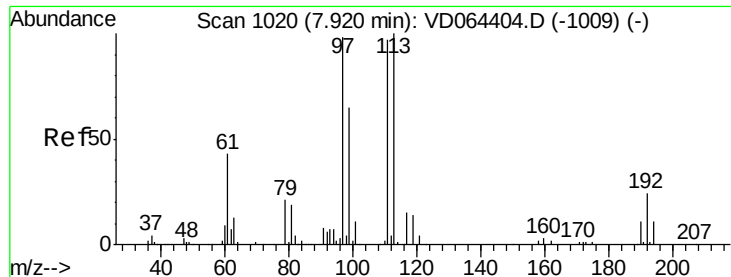
Tot Ion: 65 Resp: 220797
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion: 114 Resp: 683767
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 40.0
 88 15.0 0.0 29.2

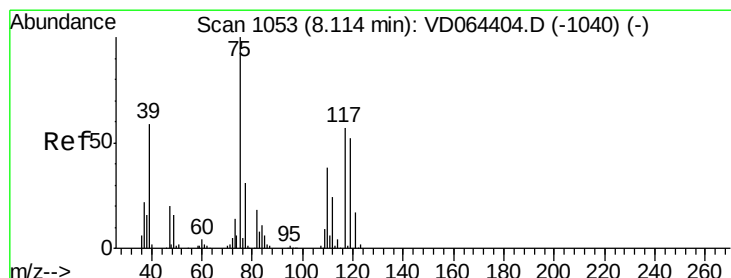
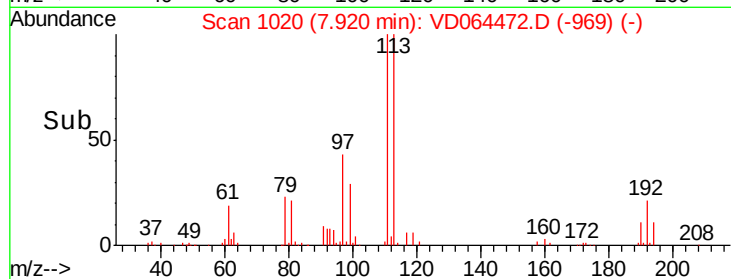
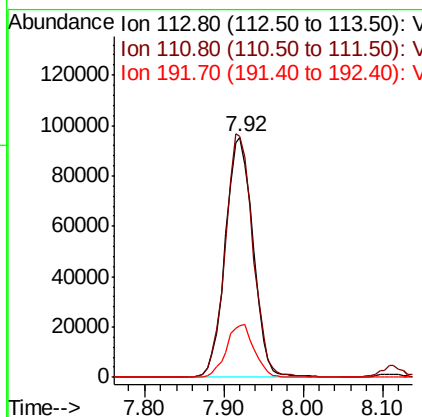
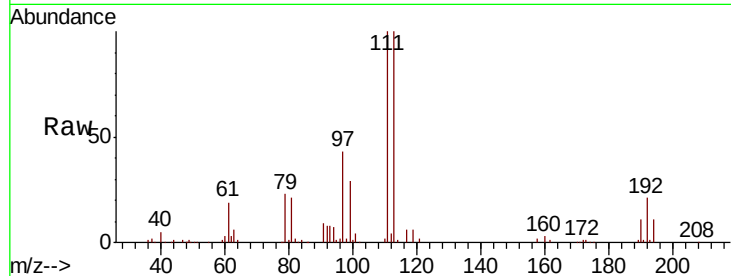




#35
 Dibromofluoromethane
 Concen: 53.636 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

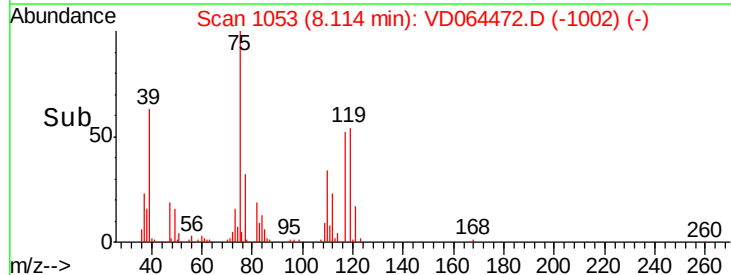
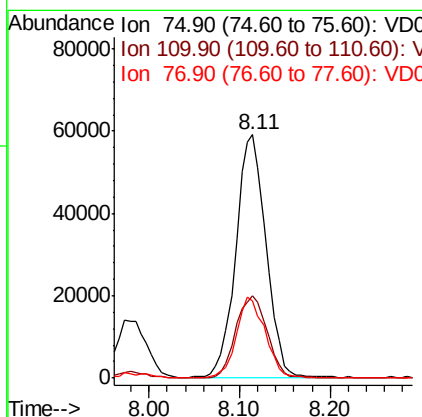
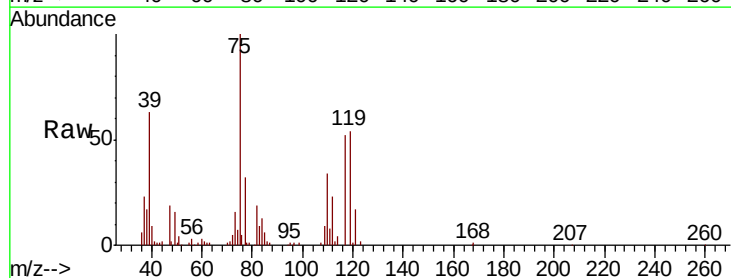
Instrument :
 MSVOA_D
 ClientSampleId :

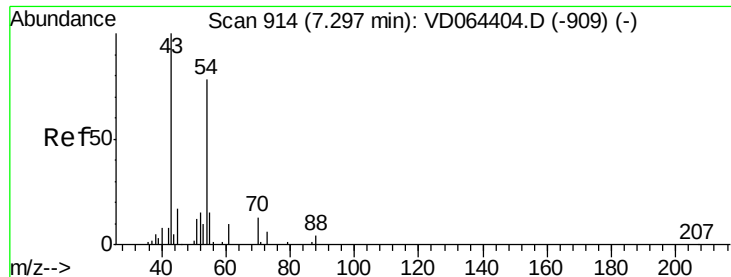
Tot Ion:113 Resp: 231070
 Ion Ratio Lower Upper
 113 100
 111 100.5 79.4 119.2
 192 21.8 18.6 28.0



#36
 1,1-Dichloropropene
 Concen: 21.269 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion: 75 Resp: 137557
 Ion Ratio Lower Upper
 75 100
 110 35.2 18.6 55.8
 77 31.7 25.0 37.4

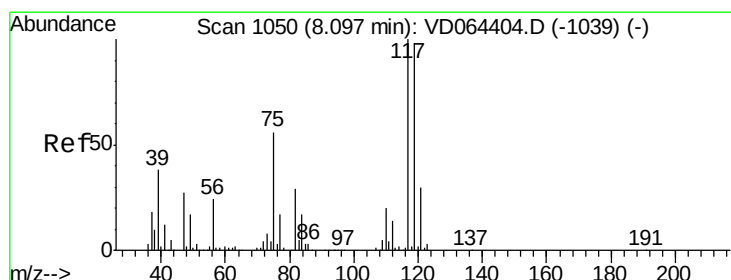
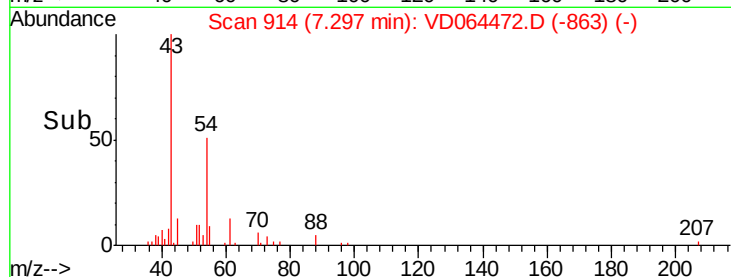
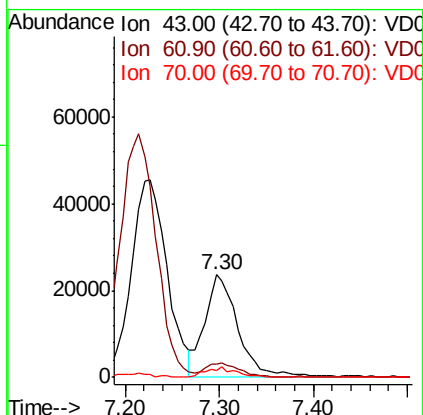
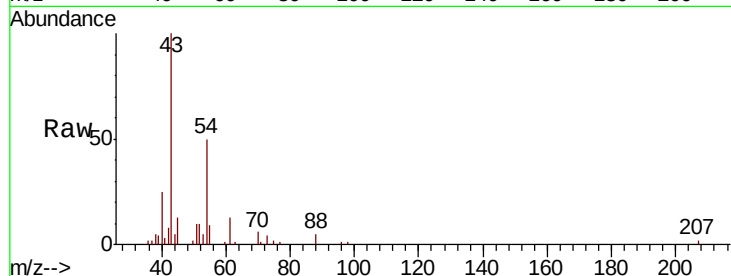




#37
Ethyl Acetate
Concen: 21.648 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

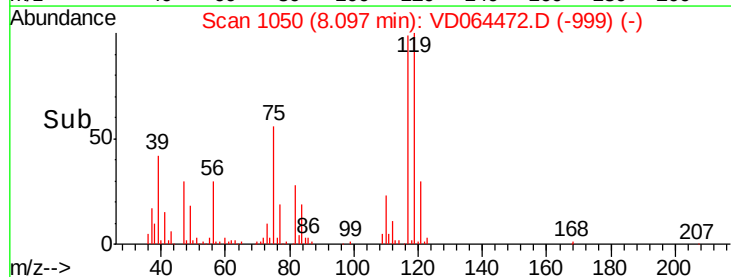
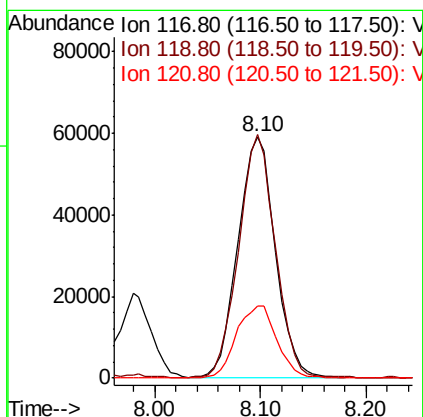
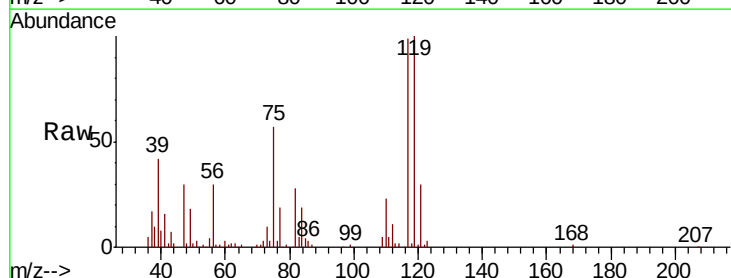
Instrument :
MSVOA_D
ClientSampleId :

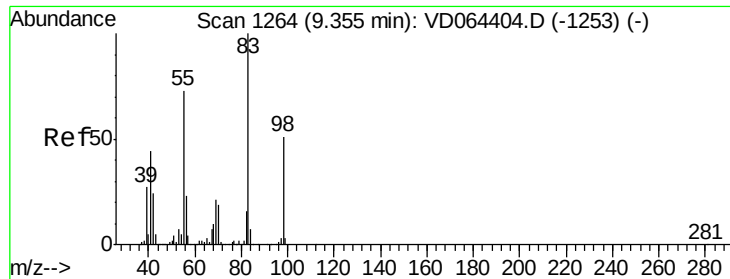
Tot Ion: 43 Resp: 59409
Ion Ratio Lower Upper
43 100
61 14.2 10.9 16.3
70 8.9 8.3 12.5



#38
Carbon Tetrachloride
Concen: 21.358 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 117 Resp: 145790
Ion Ratio Lower Upper
117 100
119 100.8 78.8 118.2
121 29.9 24.2 36.2

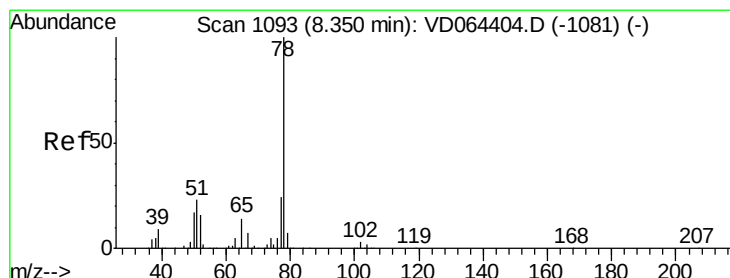
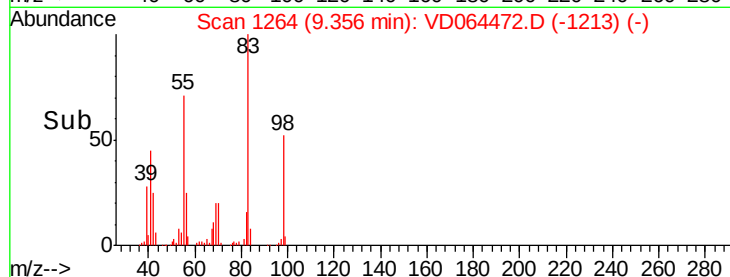
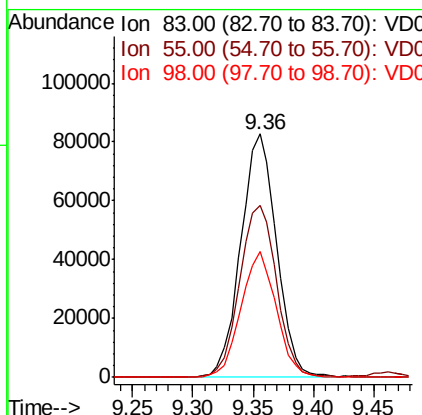
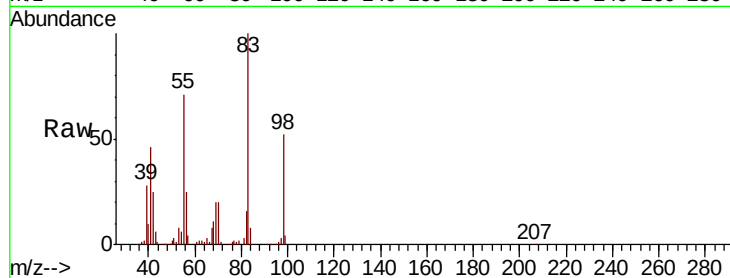




#39
Methylvlcyclohexane
Concen: 21.328 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

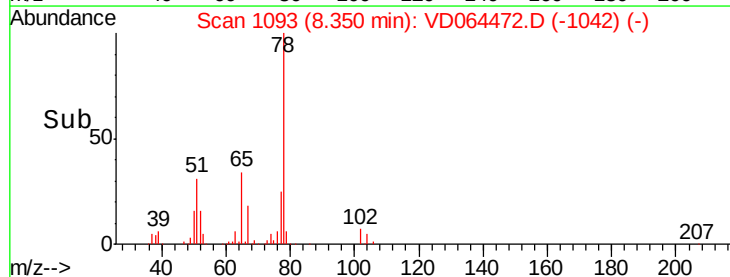
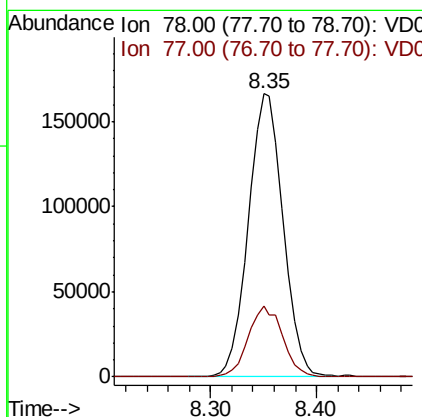
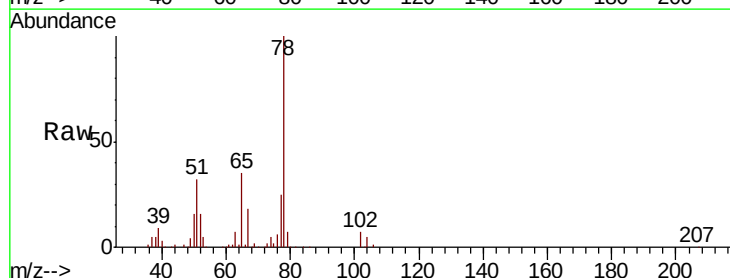
Instrument :
MSVOA_D
ClientSampled :

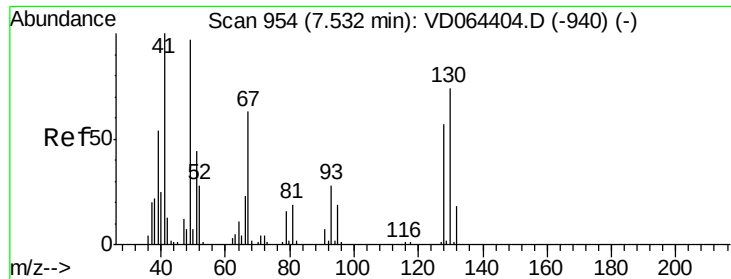
Tot Ion: 83 Resp: 171107
Ion Ratio Lower Upper
83 100
55 70.7 58.6 87.8
98 51.5 40.9 61.3



#40
Benzene
Concen: 21.181 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 78 Resp: 380480
Ion Ratio Lower Upper
78 100
77 24.9 19.6 29.4

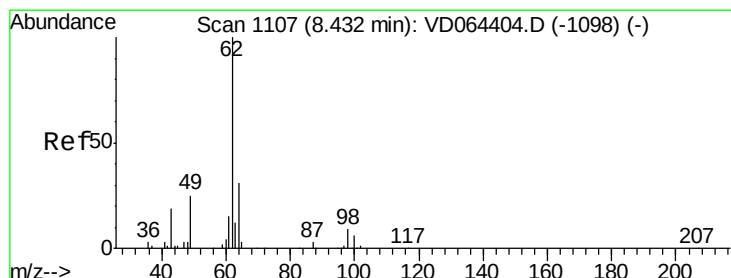
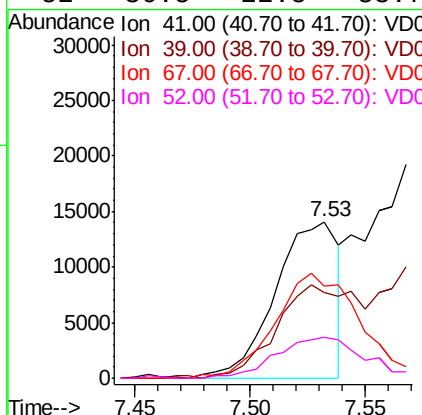
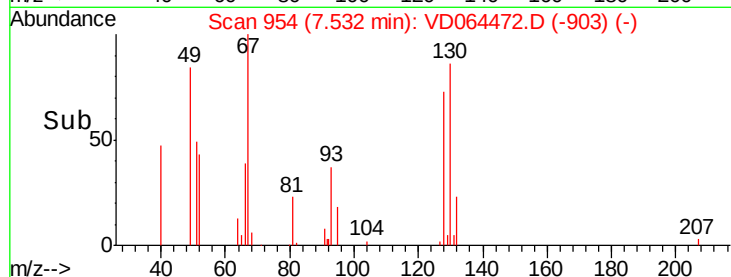
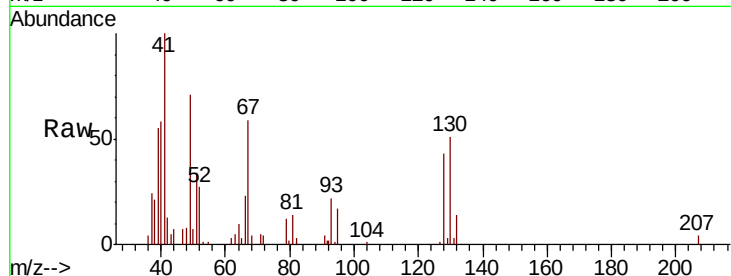




#41
Methacrylonitrile
Concen: 17.118 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

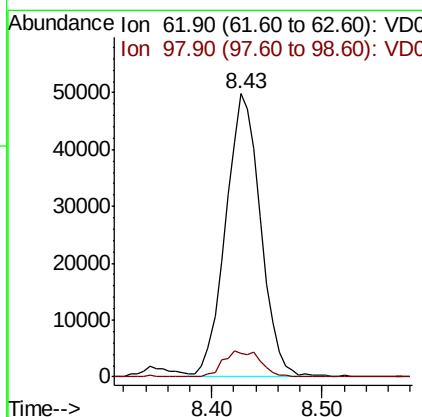
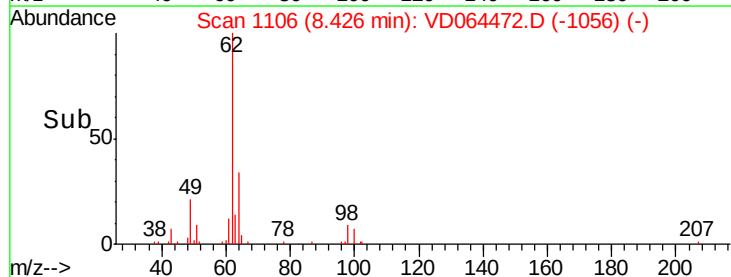
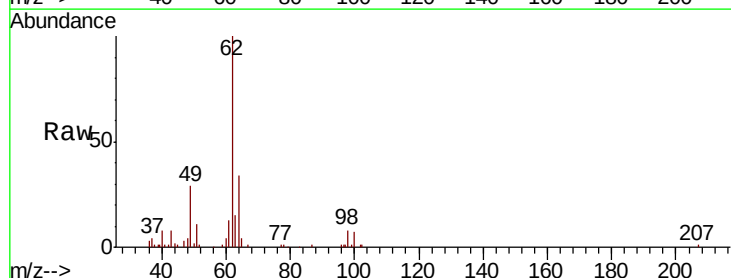
Instrument :
MSVOA_D
ClientSampled :

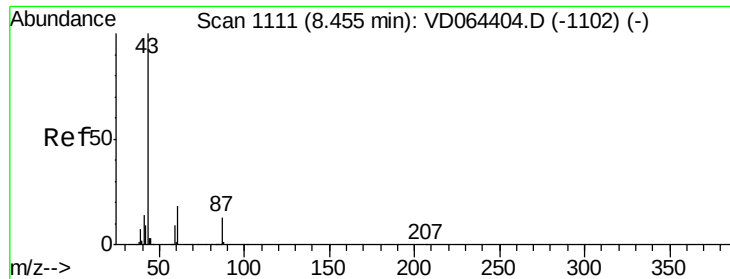
Tot Ion: 41 Resp: 26941
Ion Ratio Lower Upper
41 100
39 77.0 44.6 67.0#
67 89.4 50.9 76.3#
52 36.5 22.5 33.7#



#42
1,2-Dichloroethane
Concen: 21.035 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 62 Resp: 110189
Ion Ratio Lower Upper
62 100
98 9.8 0.0 20.6





#43

Isopropyl Acetate

Concen: 20.263 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

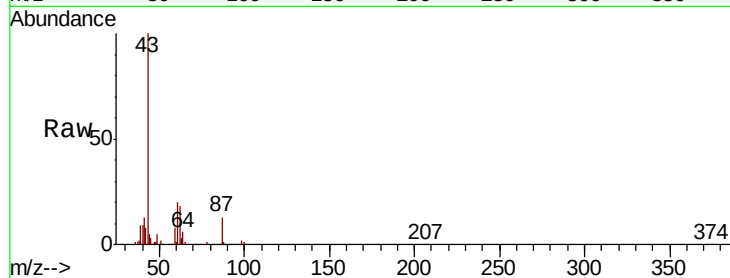
Tot Ion: 43 Resp: 109335

Ion Ratio Lower Upper

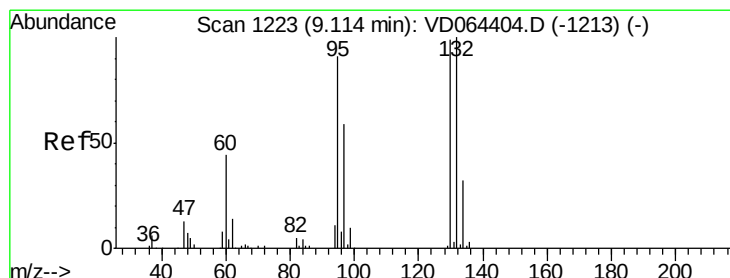
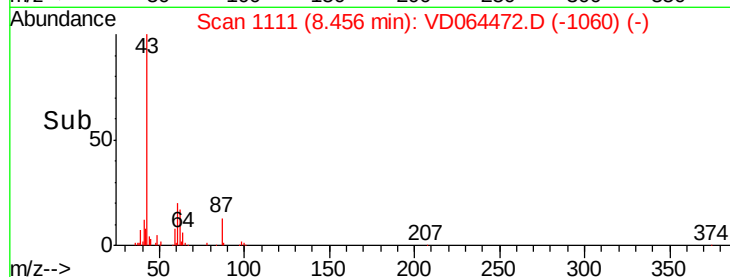
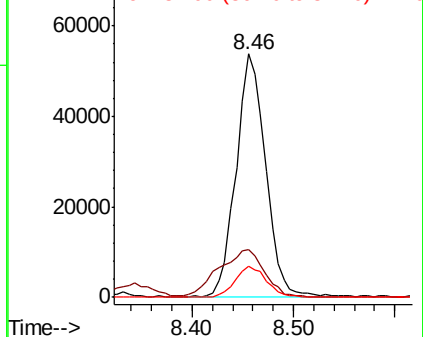
43 100

61 30.2 24.0 36.0

87 13.2 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 61.00 (60.70 to 61.70): VDC
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 21.379 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.01 min

Lab File: VD064472.D

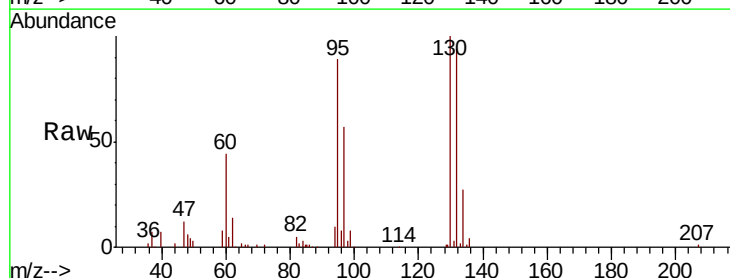
Acq: 09 Dec 2019 13:36

Tgt Ion:130 Resp: 115681

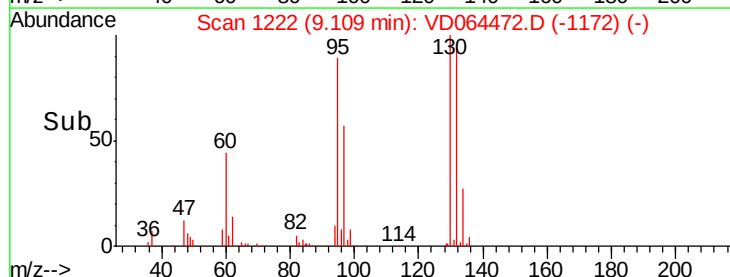
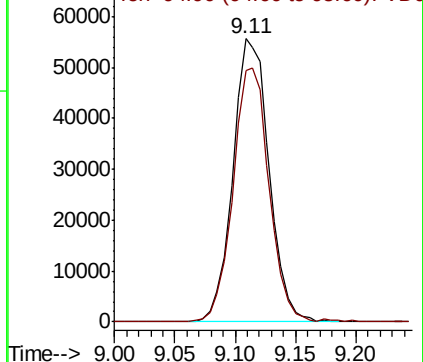
Ion Ratio Lower Upper

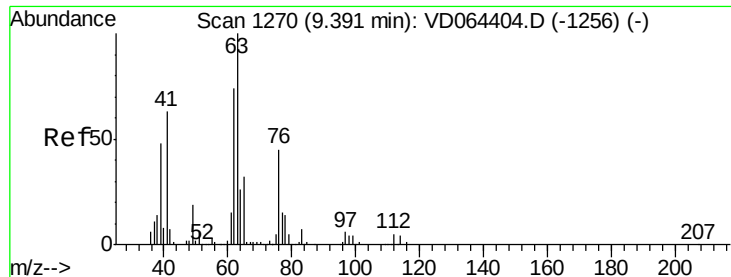
130 100

95 88.7 0.0 184.6



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC

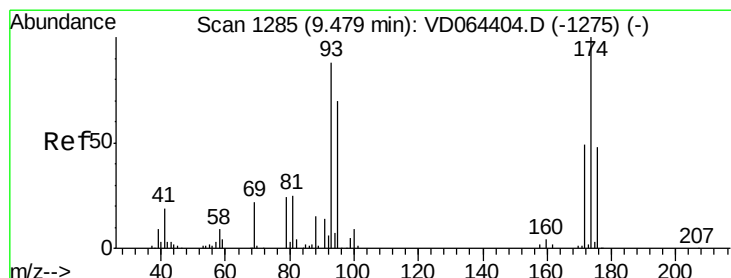
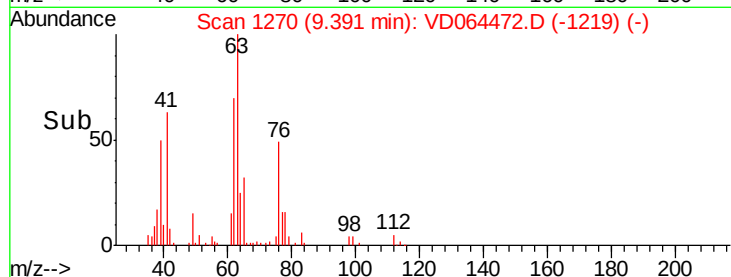
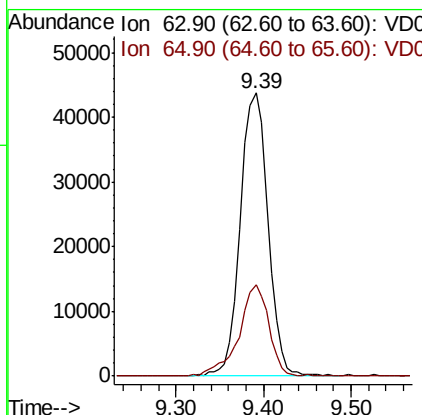
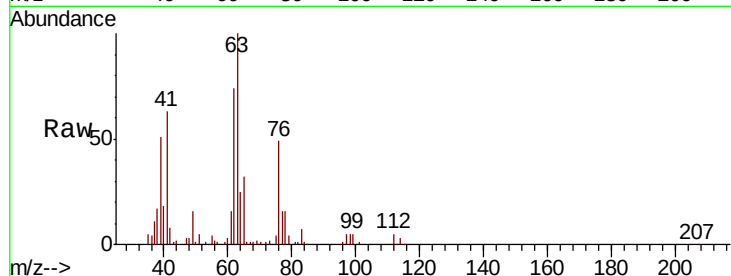




#45
 1,2-Dichloropropane
 Concen: 21.720 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

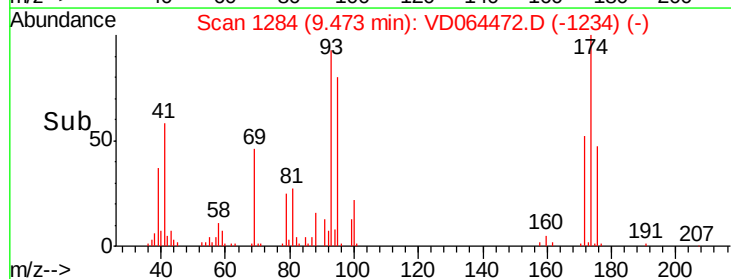
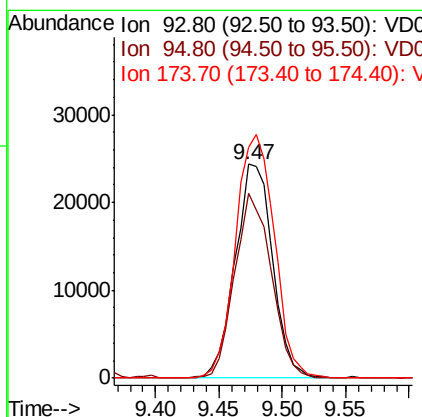
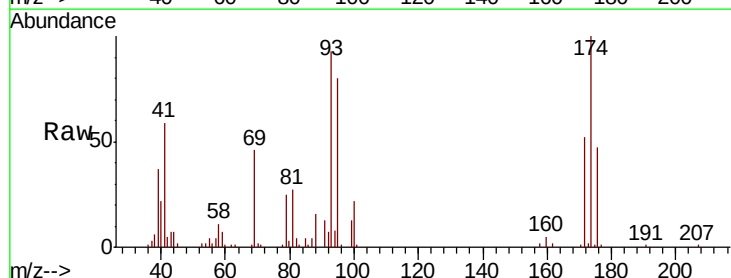
Instrument :
 MSVOA_D
 ClientSampleId :

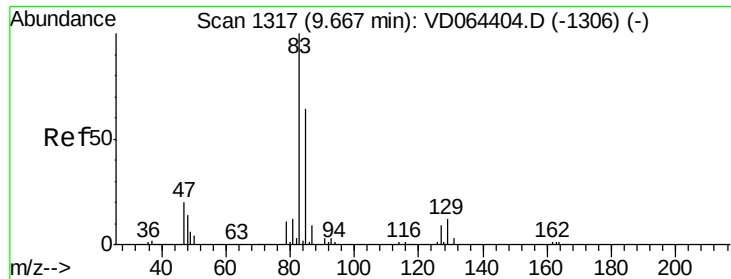
Tot Ion: 63 Resp: 93310
 Ion Ratio Lower Upper
 63 100
 65 32.2 25.4 38.0



#46
 Dibromomethane
 Concen: 20.677 ug/l
 RT: 9.47 min Scan# 1284
 Delta R.T. -0.01 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion: 93 Resp: 50134
 Ion Ratio Lower Upper
 93 100
 95 84.1 66.7 100.1
 174 117.2 92.3 138.5





#47

Bromodichloromethane

Concen: 21.598 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

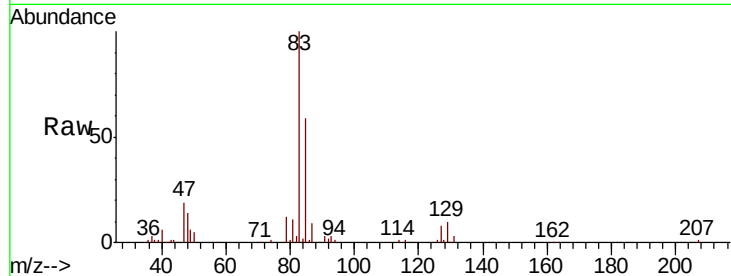
Tot Ion: 83 Resp: 134555

Ion Ratio Lower Upper

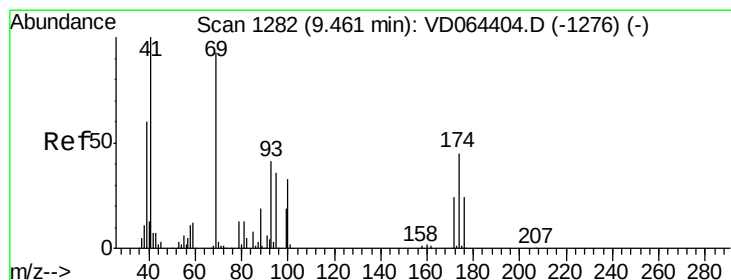
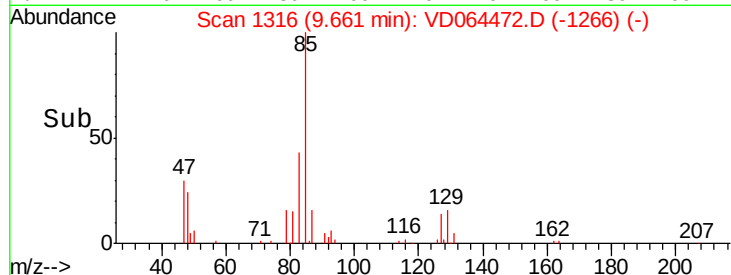
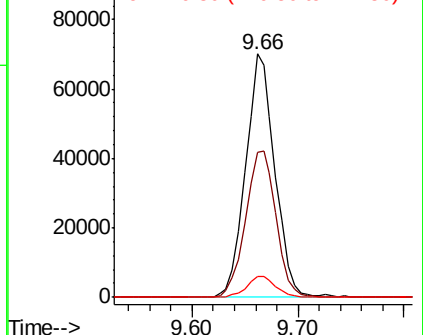
83 100

85 59.4 51.1 76.7

127 8.3 7.4 11.0



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 20.468 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

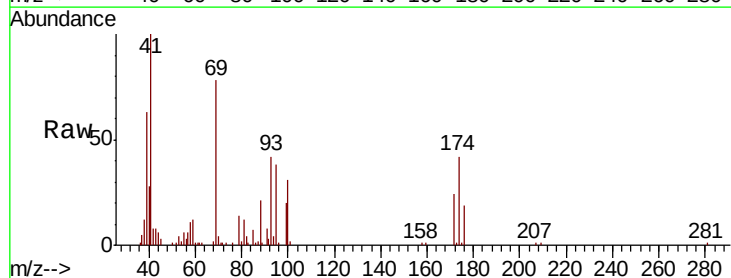
Tgt Ion: 41 Resp: 50537

Ion Ratio Lower Upper

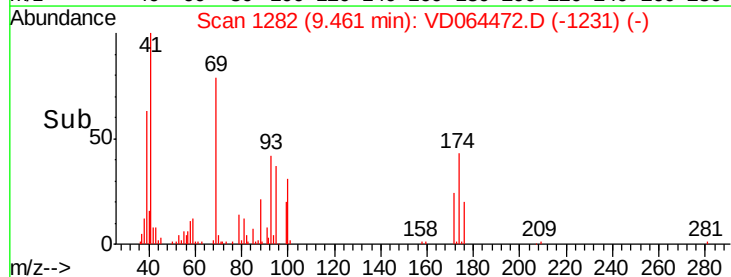
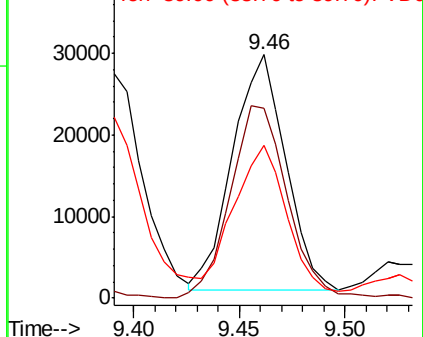
41 100

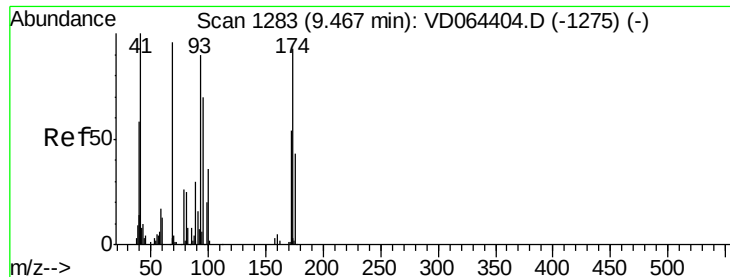
69 88.1 72.0 108.0

39 59.4 55.2 82.8



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC

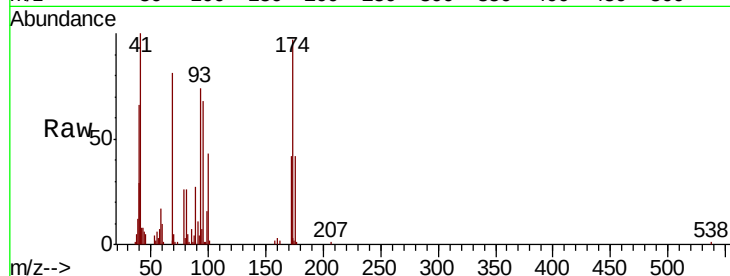




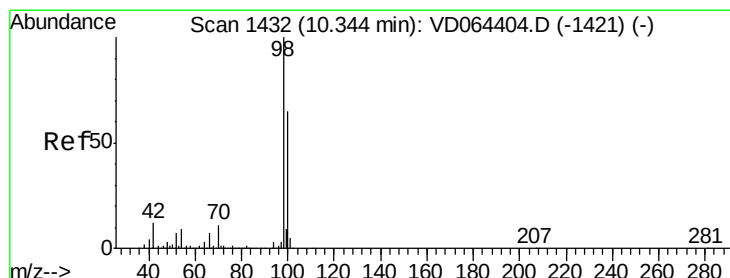
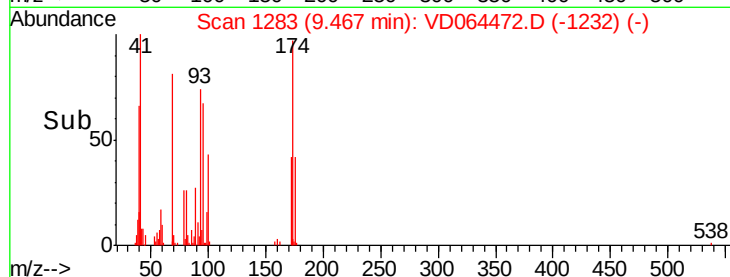
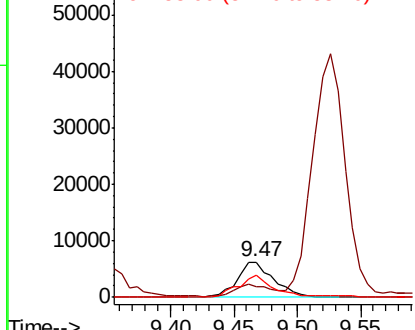
#49
1,4-Dioxane
Concen: 419.494 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 88 Resp: 12560
Ion Ratio Lower Upper
88 100
43 36.7 26.7 40.1
58 58.6 52.3 78.5

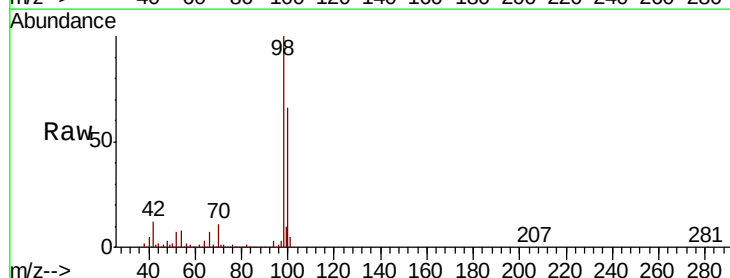


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

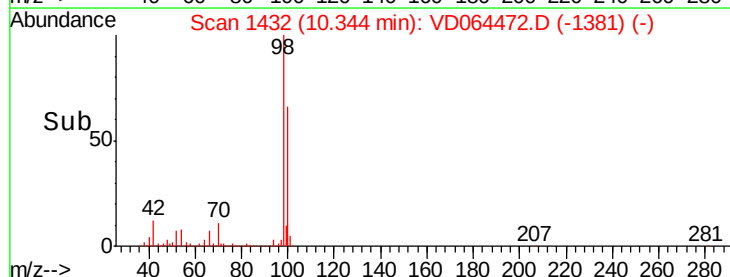
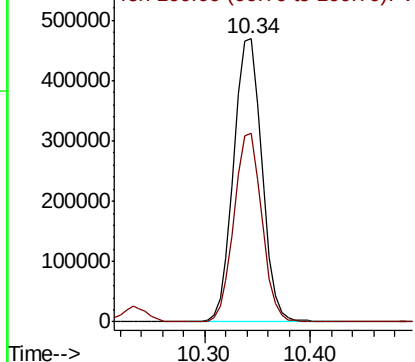


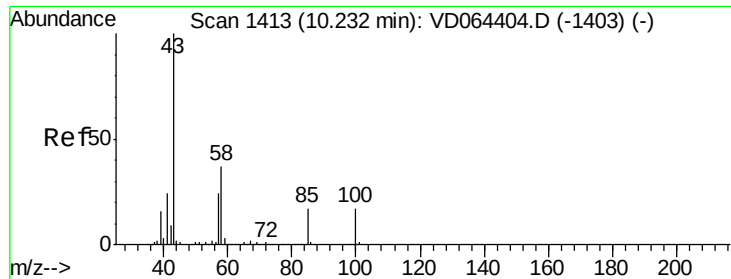
#50
Toluene-d8
Concen: 53.577 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 98 Resp: 869443
Ion Ratio Lower Upper
98 100
100 65.8 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

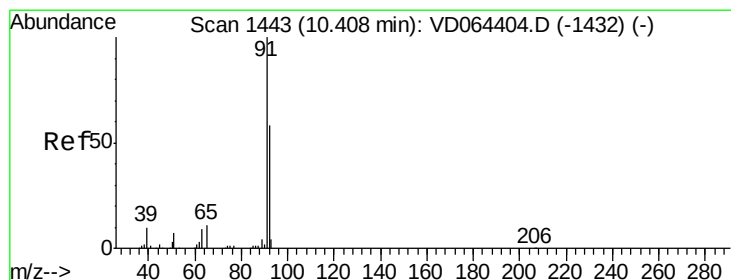
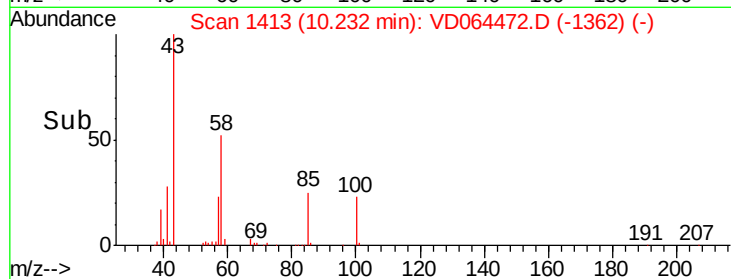
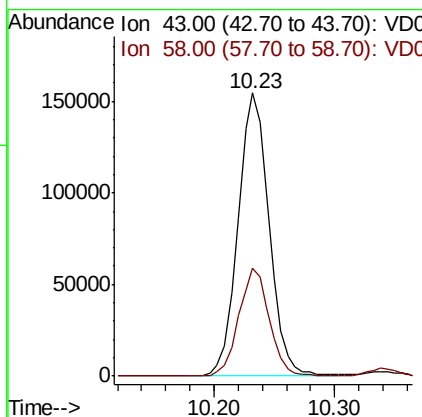
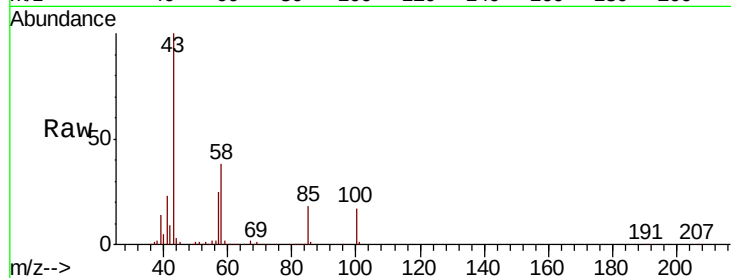




#51
4-Methyl-2-Pentanone
Concen: 103.912 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

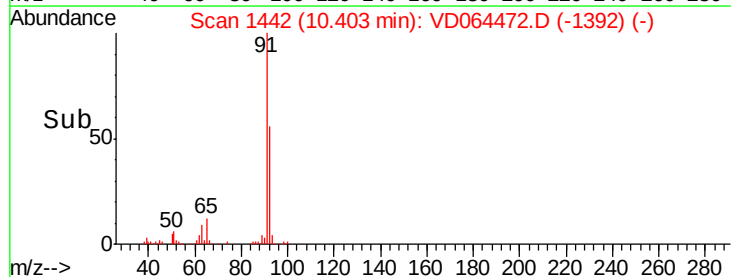
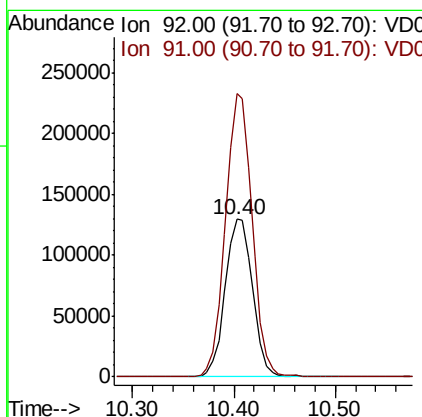
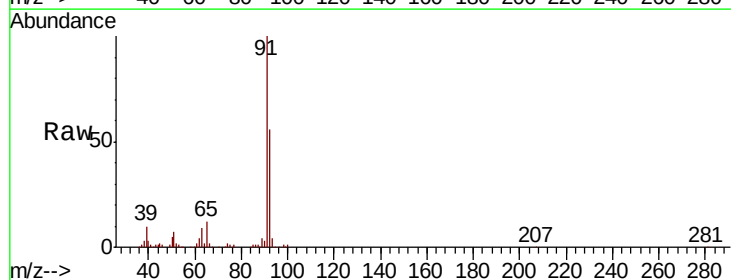
Instrument :
MSVOA_D
ClientSampleId :

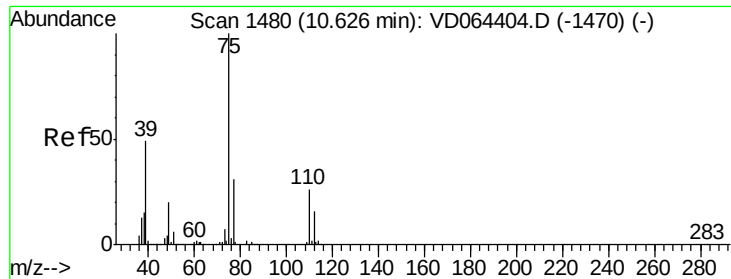
Tot Ion: 43 Resp: 277424
Ion Ratio Lower Upper
43 100
58 37.4 30.6 46.0



#52
Toluene
Concen: 20.780 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.01 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 92 Resp: 243268
Ion Ratio Lower Upper
92 100
91 174.8 137.8 206.6





#53

t-1,3-Dichloropropene

Concen: 21.207 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

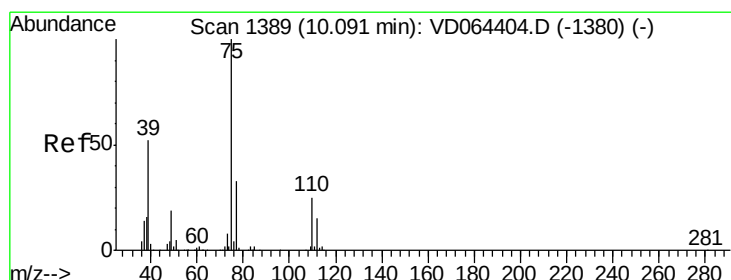
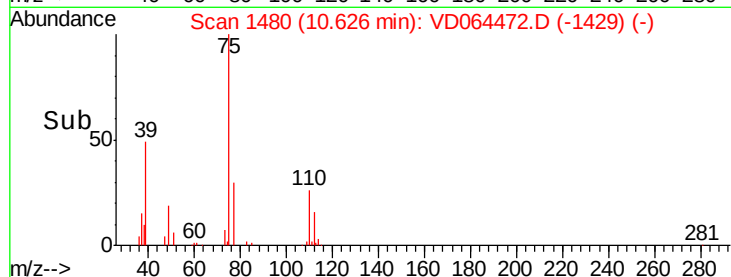
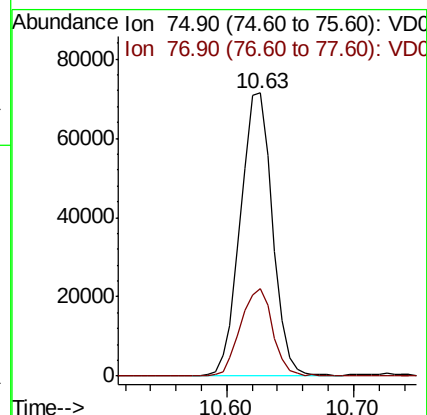
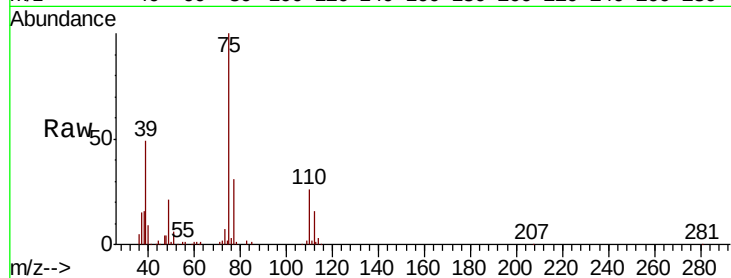
ClientSampleId :

Tot Ion: 75 Resp: 125914

Ion Ratio Lower Upper

75 100

77 31.0 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 21.257 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

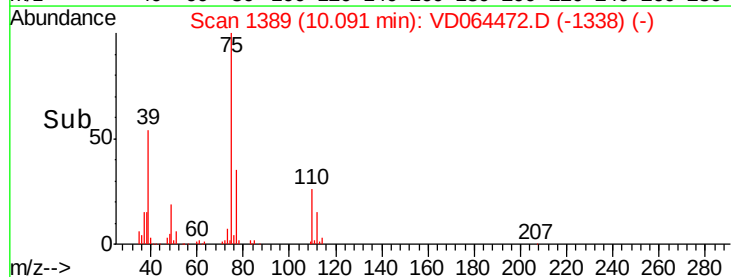
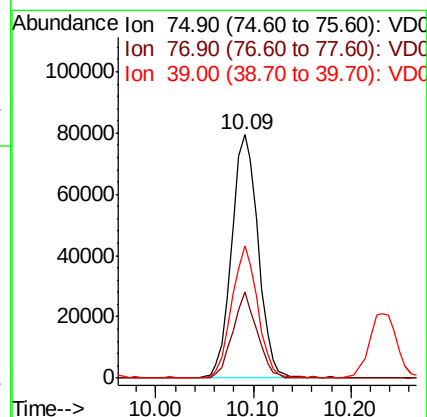
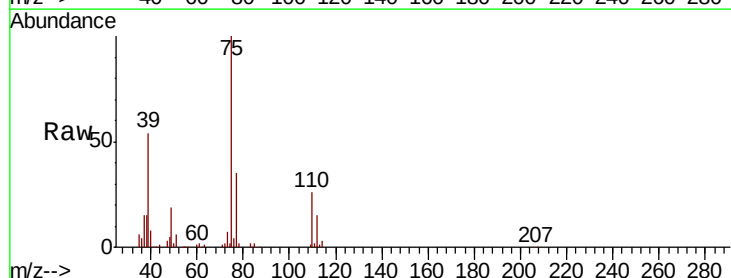
Tgt Ion: 75 Resp: 149937

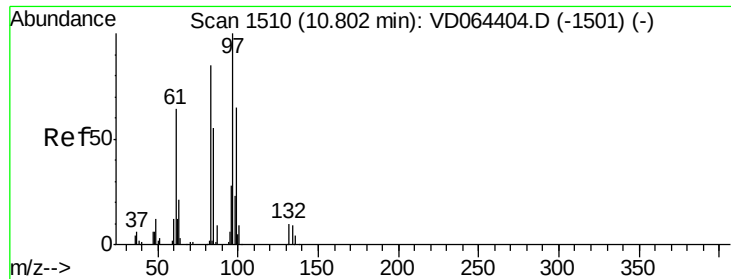
Ion Ratio Lower Upper

75 100

77 35.3 26.1 39.1

39 54.2 41.5 62.3

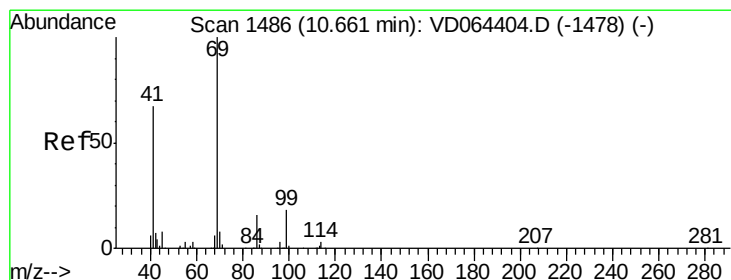
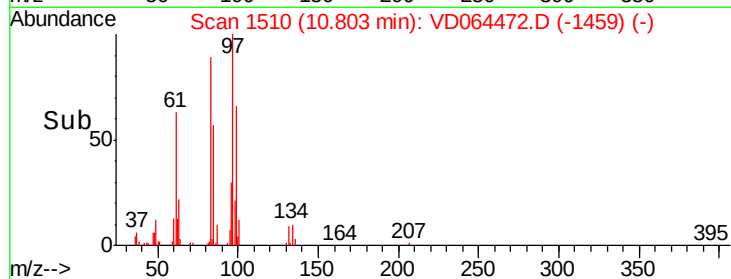
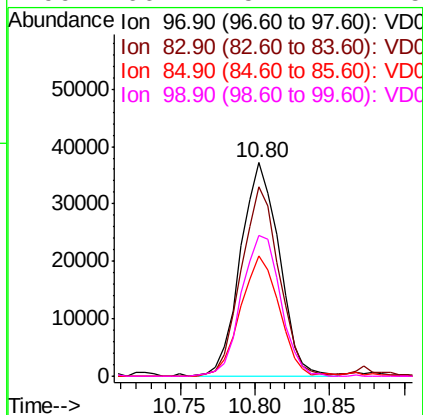
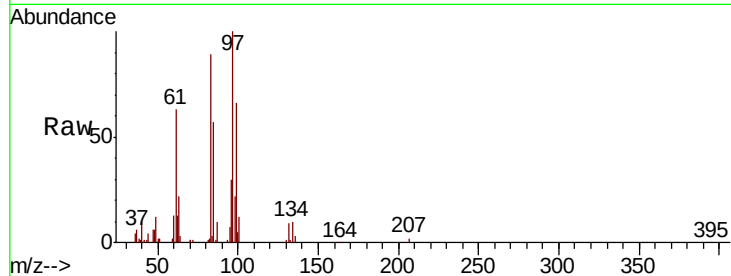




#55
 1,1,2-Trichloroethane
 Concen: 20.185 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

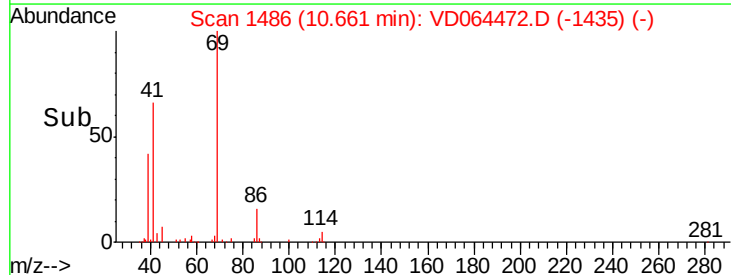
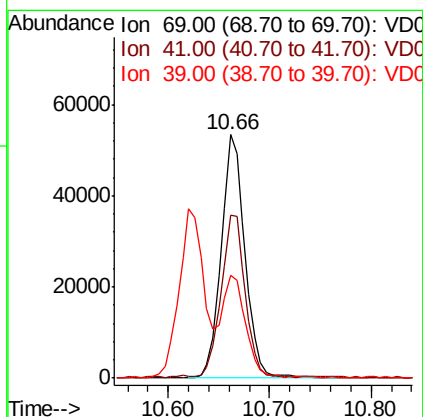
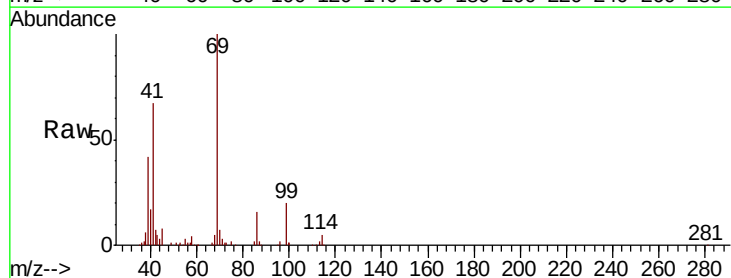
Instrument :
 MSVOA_D
 ClientSampled :

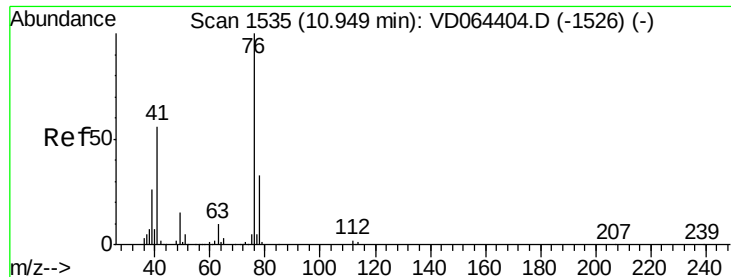
Tot Ion	Ratio	Lower	Upper
97	100		
83	88.9	67.8	101.8
85	56.5	43.7	65.5
99	66.2	51.7	77.5



#56
 Ethyl methacrylate
 Concen: 20.395 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion	Ratio	Lower	Upper
69	100		
41	67.6	55.0	82.4
39	42.0	33.0	49.6





#57

1,3-Dichloropropane

Concen: 21.180 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

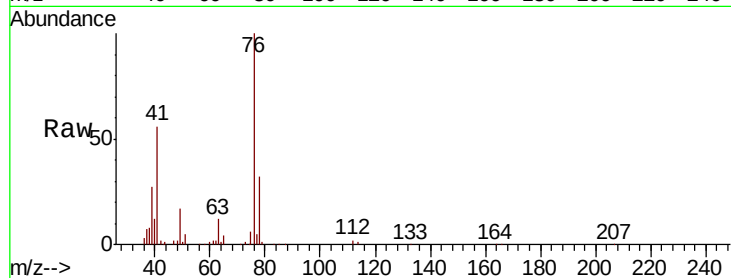
ClientSampleId :

Tot Ion: 76 Resp: 119703

Ion Ratio Lower Upper

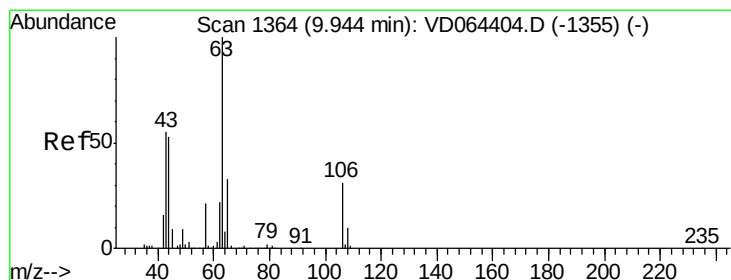
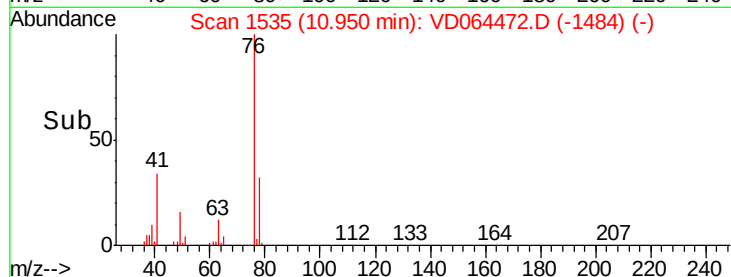
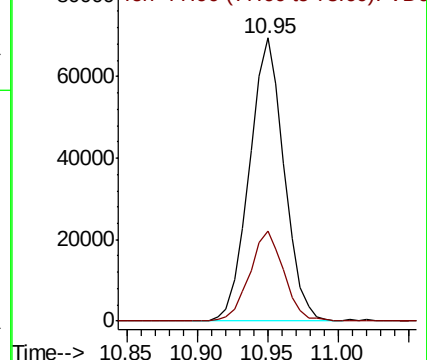
76 100

78 31.3 26.0 39.0



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 106.878 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD064472.D

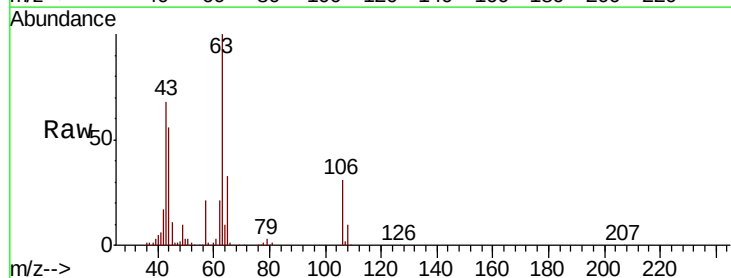
Acq: 09 Dec 2019 13:36

Tgt Ion: 63 Resp: 180413

Ion Ratio Lower Upper

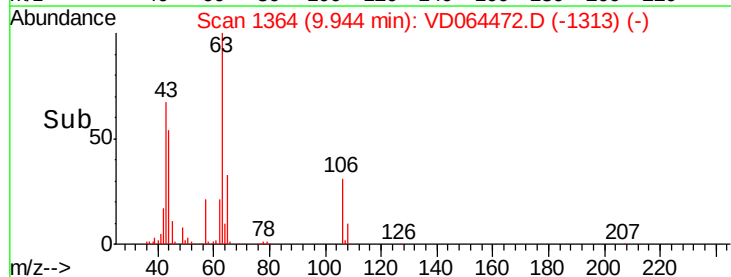
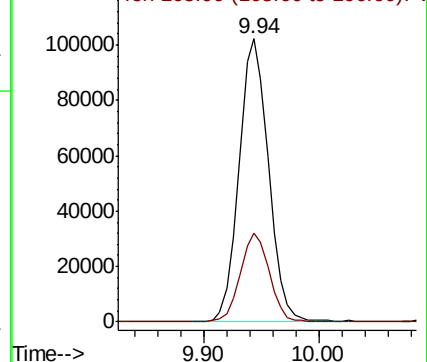
63 100

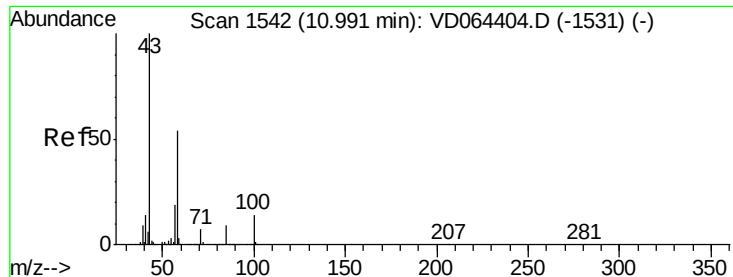
106 30.7 24.2 36.4



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

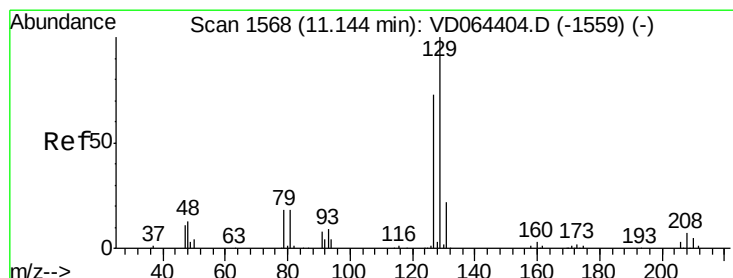
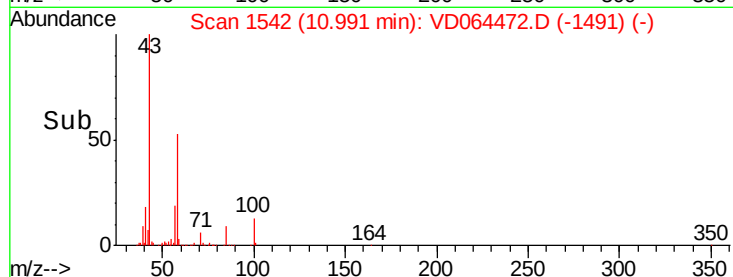
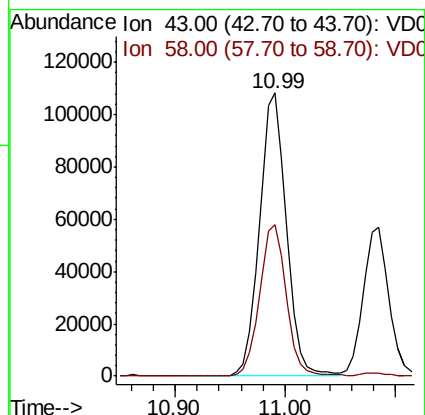
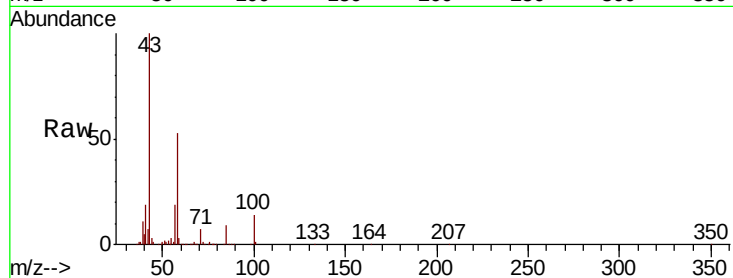




#59
2-Hexanone
Concen: 100.182 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

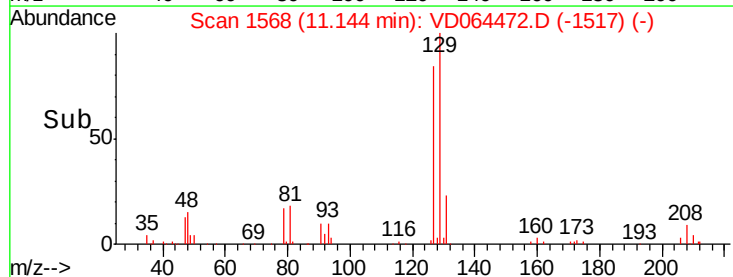
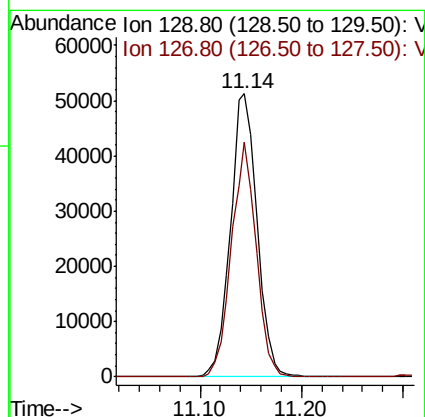
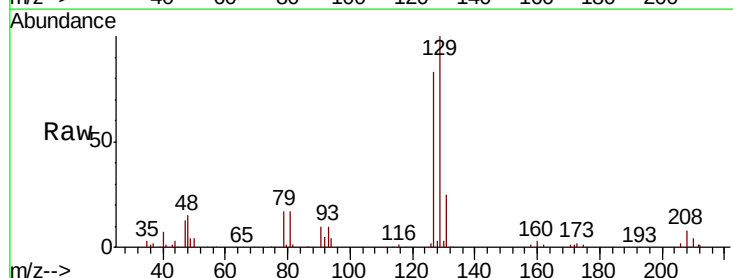
Instrument :
MSVOA_D
ClientSampleId :

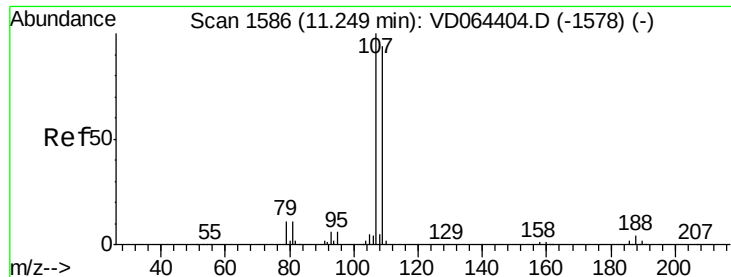
Tot Ion: 43 Resp: 185592
Ion Ratio Lower Upper
43 100
58 52.8 26.3 78.8



#60
Dibromochloromethane
Concen: 20.792 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 129 Resp: 93596
Ion Ratio Lower Upper
129 100
127 76.7 38.1 114.3

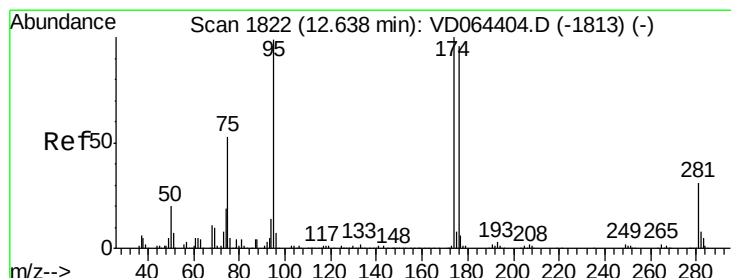
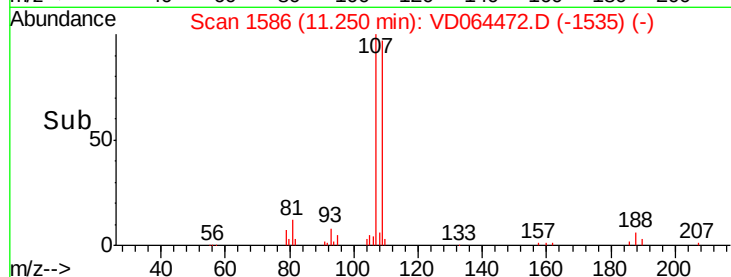
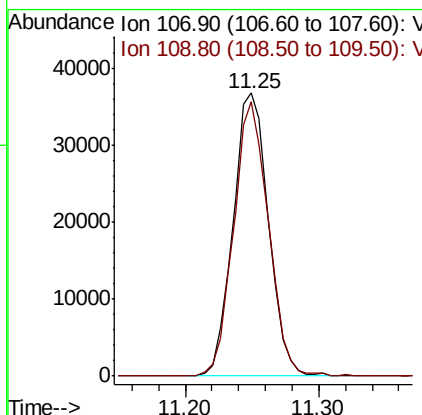
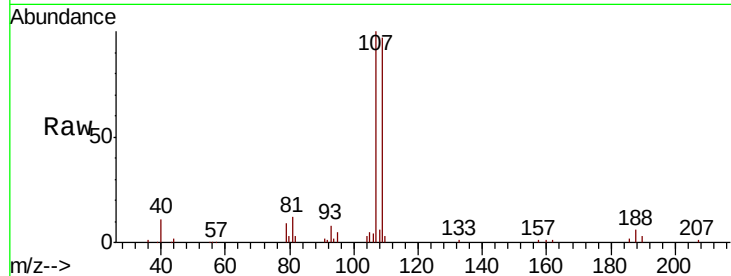




#61
 1,2-Dibromoethane
 Concen: 20.386 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

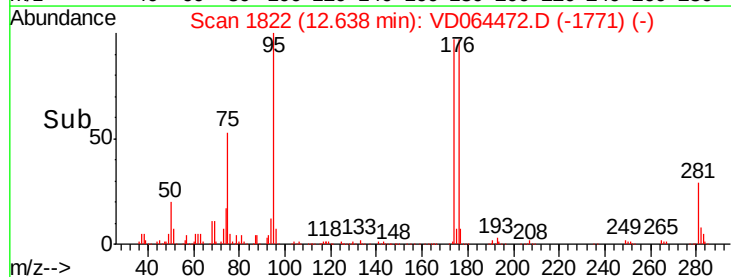
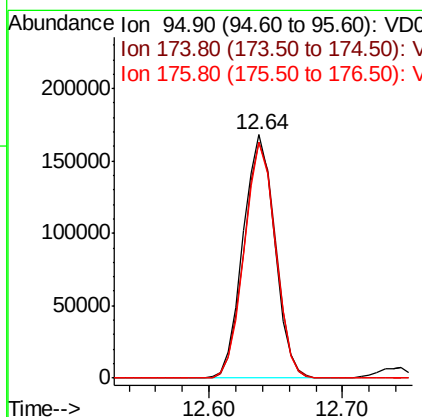
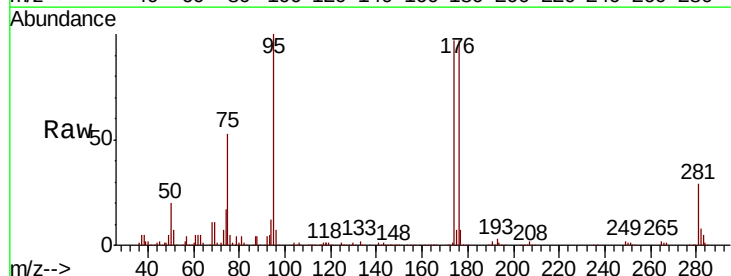
Instrument :
 MSVOA_D
 ClientSampleId :

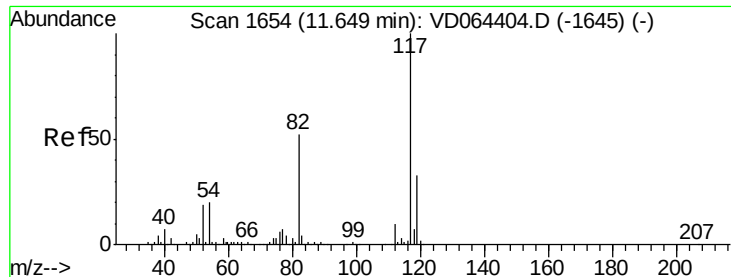
Tot Ion:107 Resp: 67579
 Ion Ratio Lower Upper
 107 100
 109 95.3 76.2 114.2



#62
 4-Bromofluorobenzene
 Concen: 52.643 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion: 95 Resp: 274544
 Ion Ratio Lower Upper
 95 100
 174 97.1 0.0 197.2
 176 95.4 0.0 189.6

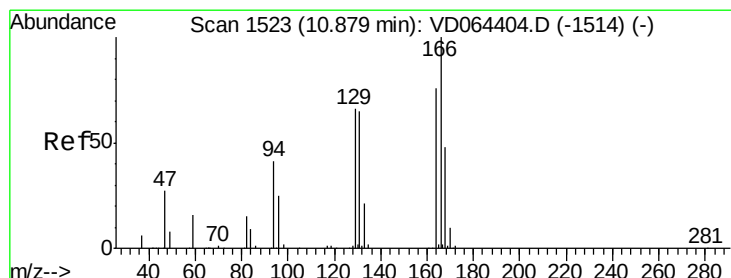
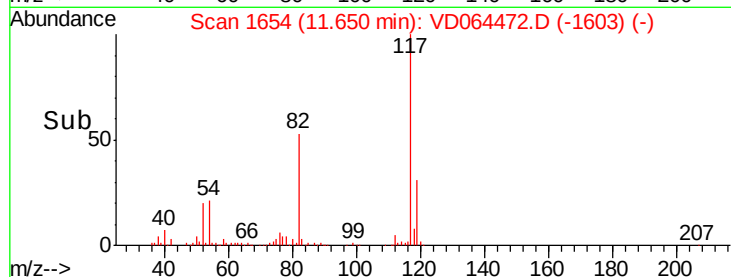
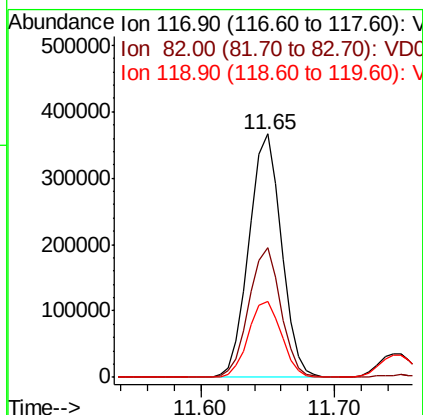
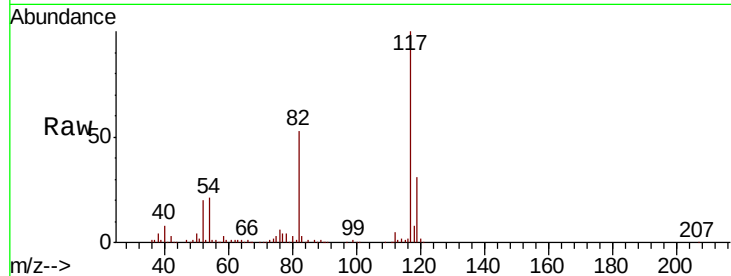




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

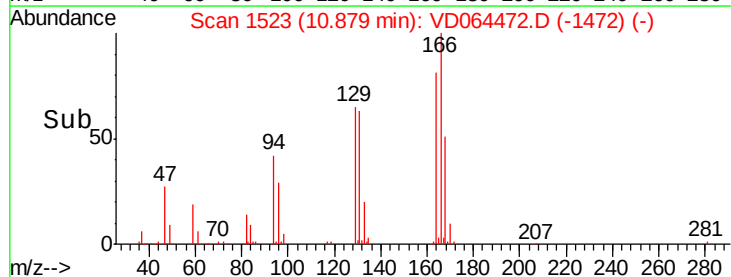
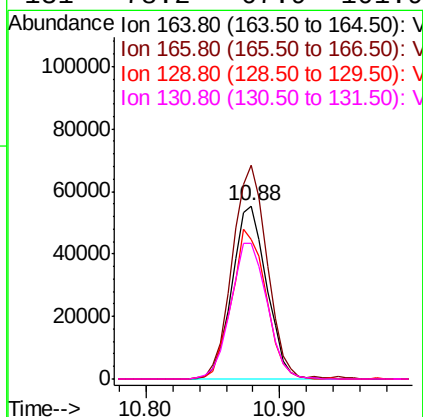
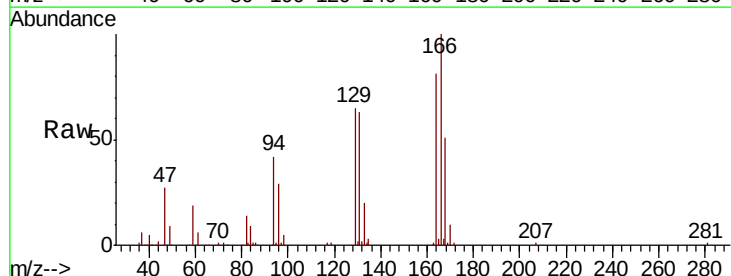
Instrument :
MSVOA_D
ClientSampleId :

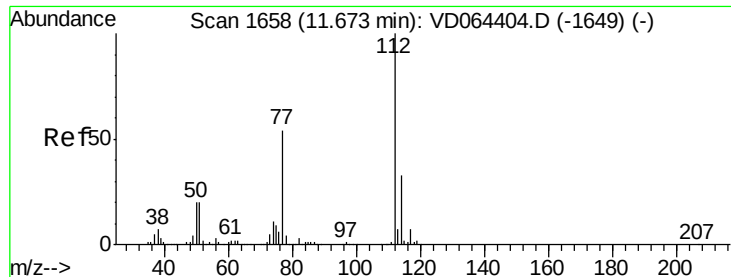
Tot Ion:117 Resp: 616762
Ion Ratio Lower Upper
117 100
82 53.2 41.4 62.2
119 31.0 26.2 39.2



#64
Tetrachloroethene
Concen: 21.249 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion:164 Resp: 99941
Ion Ratio Lower Upper
164 100
166 123.4 104.8 157.2
129 80.8 68.7 103.1
131 78.2 67.9 101.9

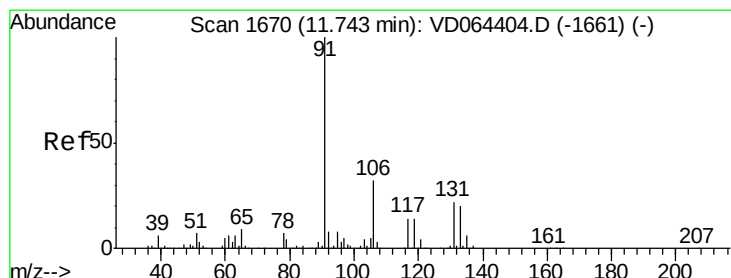
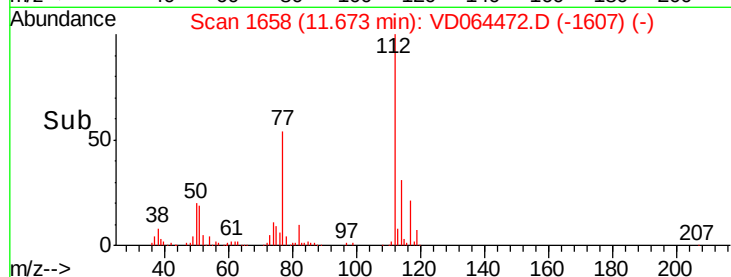
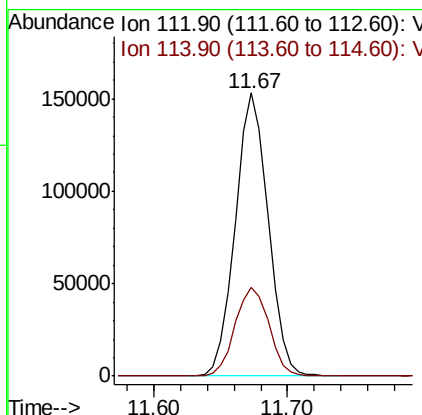
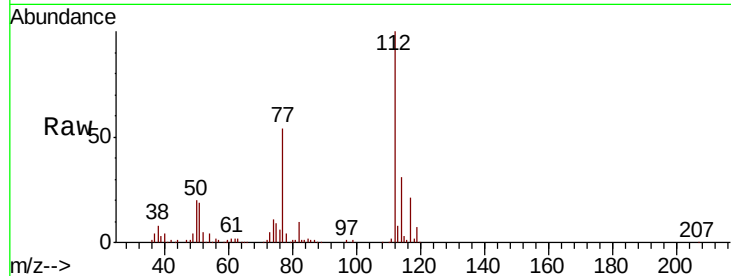




#65
Chlorobenzene
Concen: 20.303 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

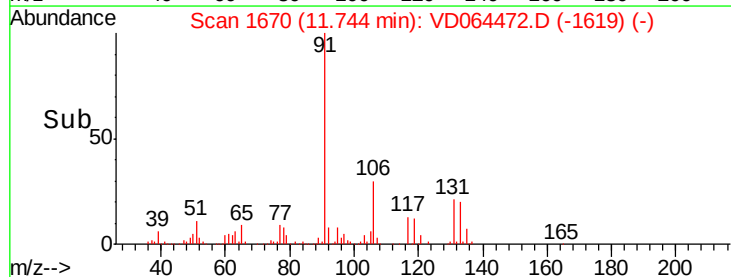
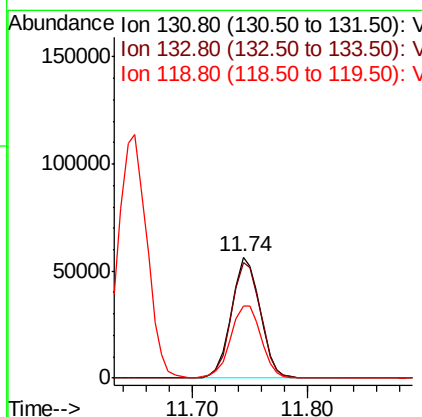
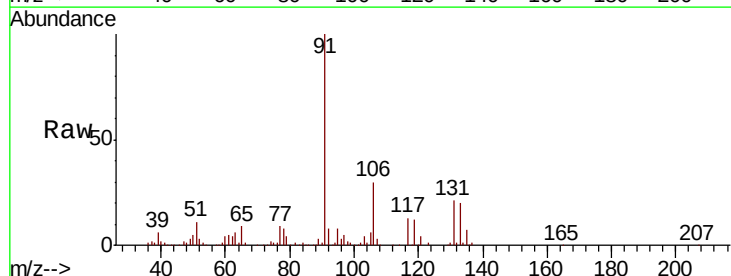
Instrument :
MSVOA_D
ClientSampleId :

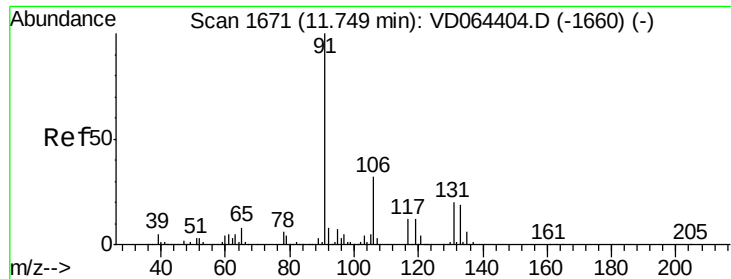
Tot Ion:112 Resp: 261167
Ion Ratio Lower Upper
112 100
114 31.2 26.5 39.7



#66
1,1,1,2-Tetrachloroethane
Concen: 20.512 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion:131 Resp: 97677
Ion Ratio Lower Upper
131 100
133 96.9 48.3 144.9
119 63.4 31.9 95.9

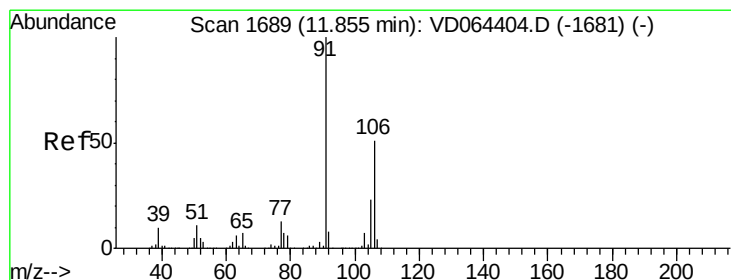
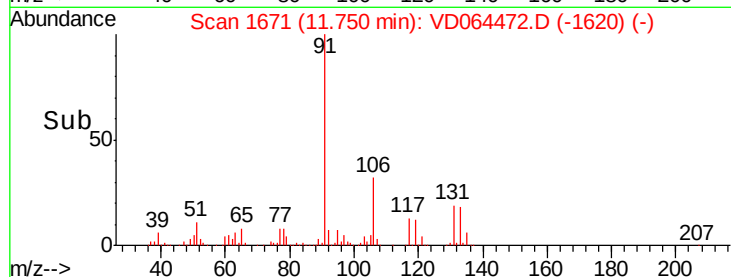
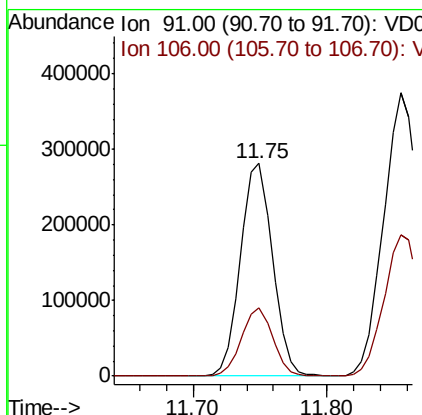
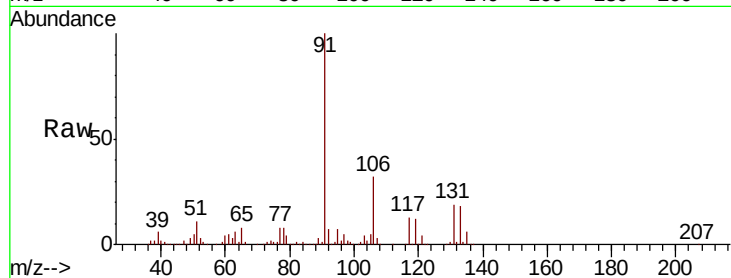




#67
Ethyl Benzene
Concen: 20.440 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

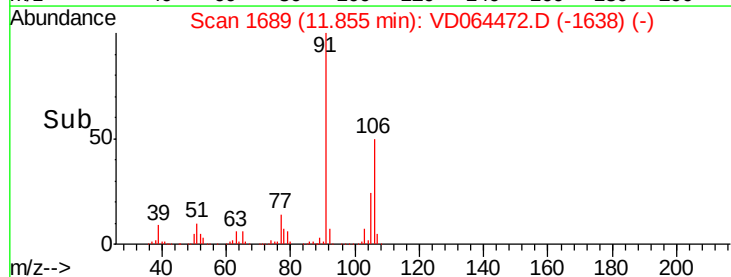
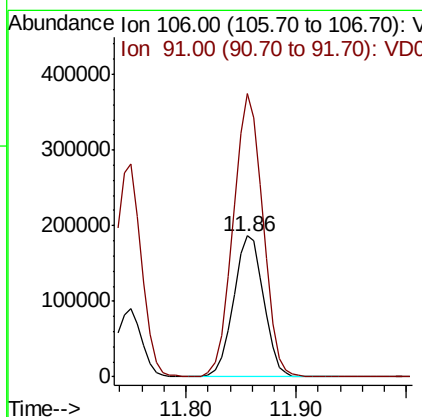
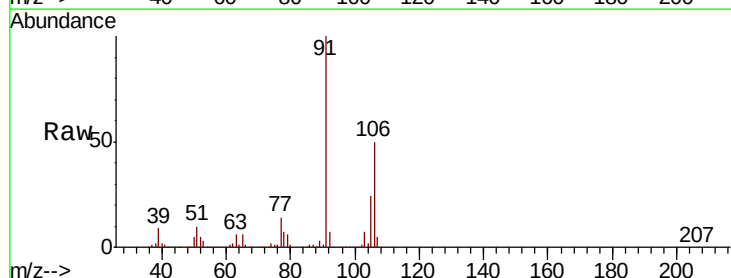
Instrument :
MSVOA_D
ClientSampleId :

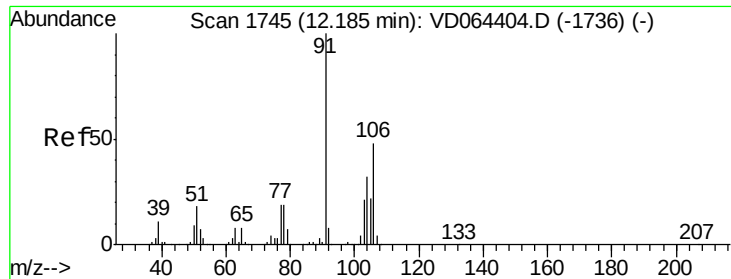
Tot Ion: 91 Resp: 467828
Ion Ratio Lower Upper
91 100
106 31.9 25.8 38.8



#68
m/p-Xylenes
Concen: 40.983 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 106 Resp: 357651
Ion Ratio Lower Upper
106 100
91 197.4 157.4 236.2

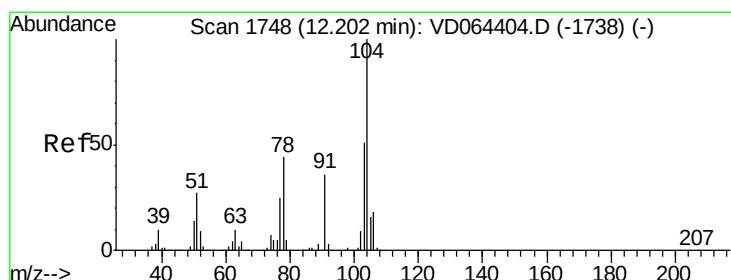
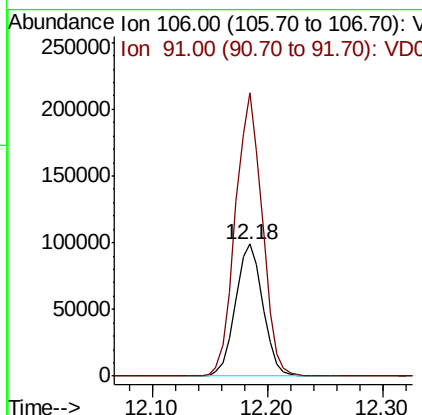
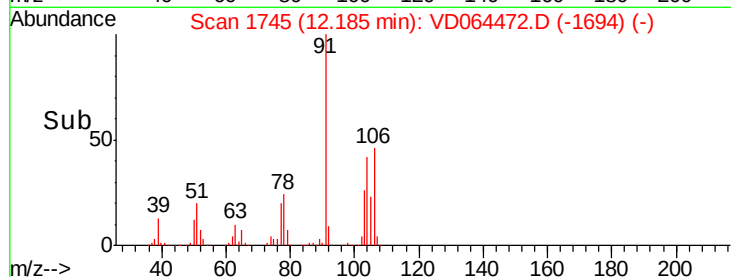
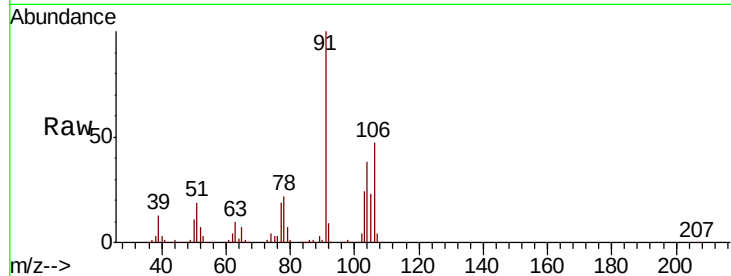




#69
o-Xylene
Concen: 20.140 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

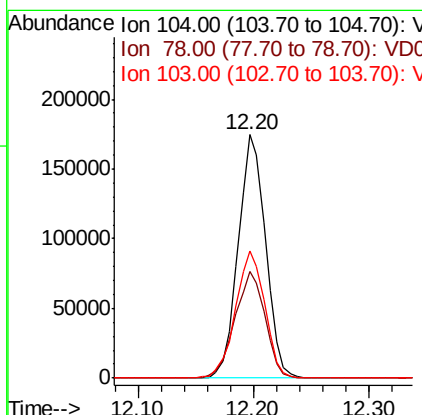
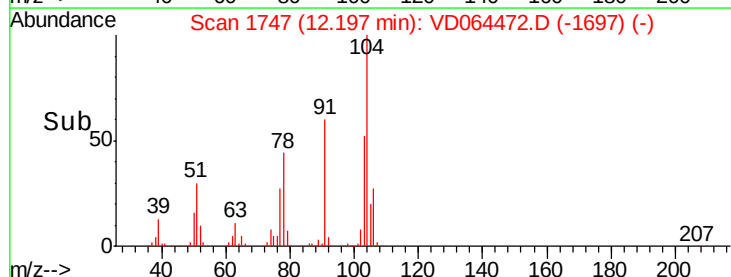
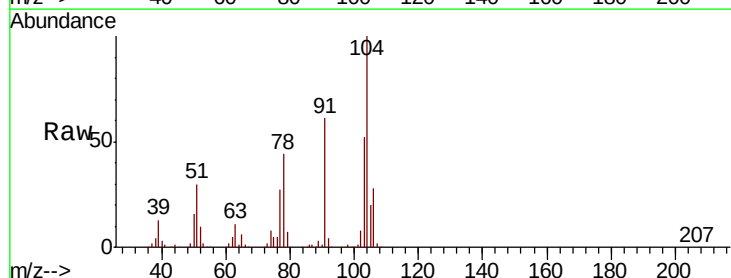
Instrument :
MSVOA_D
ClientSampled :

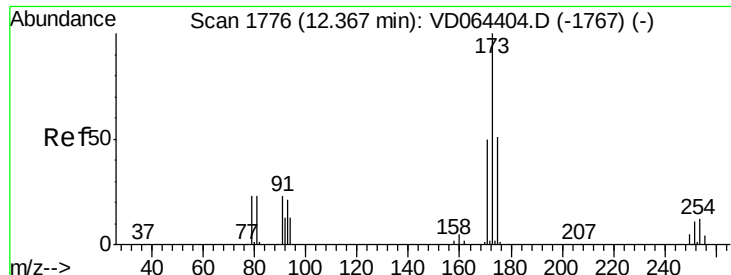
Tot Ion:106 Resp: 162317
Ion Ratio Lower Upper
106 100
91 210.3 103.8 311.4



#70
Styrene
Concen: 20.485 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion:104 Resp: 286909
Ion Ratio Lower Upper
104 100
78 48.1 38.8 58.2
103 55.7 44.2 66.4





#71

Bromoform

Concen: 19.642 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

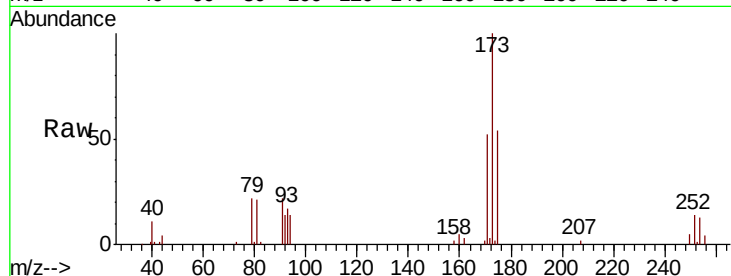
Tot Ion:173 Resp: 55959

Ion Ratio Lower Upper

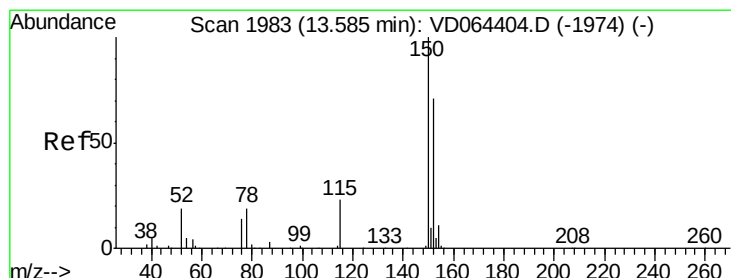
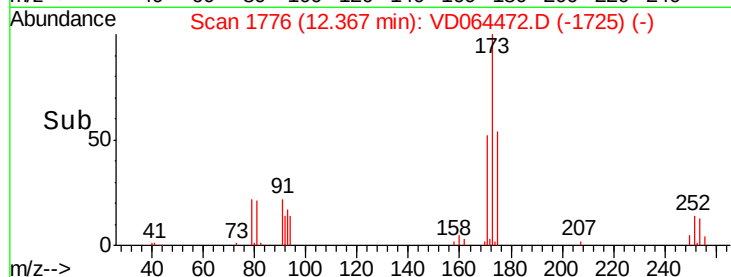
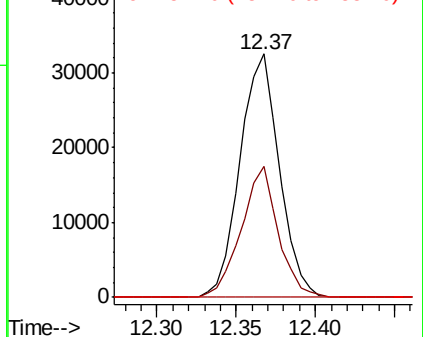
173 100

175 50.4 25.3 75.8

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

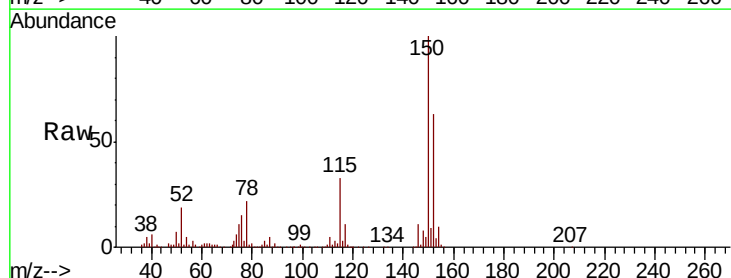
Tgt Ion:152 Resp: 302941

Ion Ratio Lower Upper

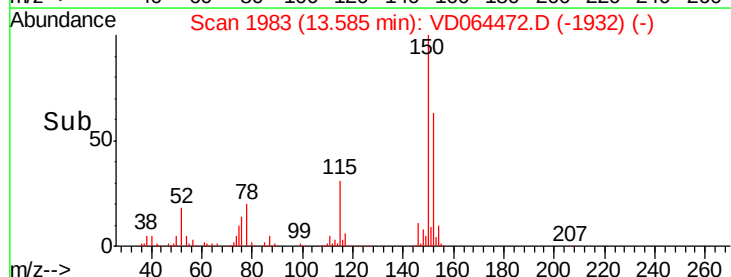
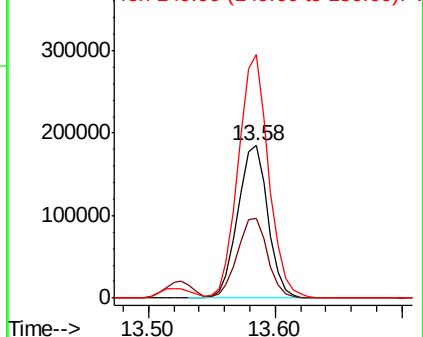
152 100

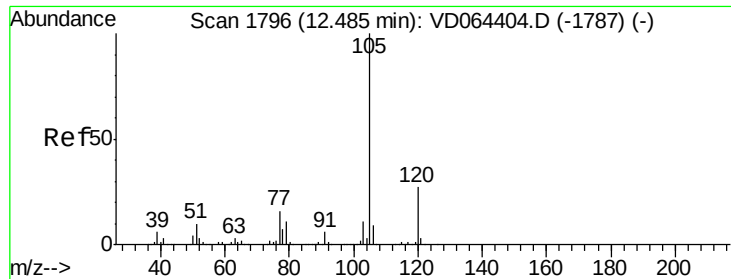
115 52.9 26.7 80.1

150 161.4 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.482 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

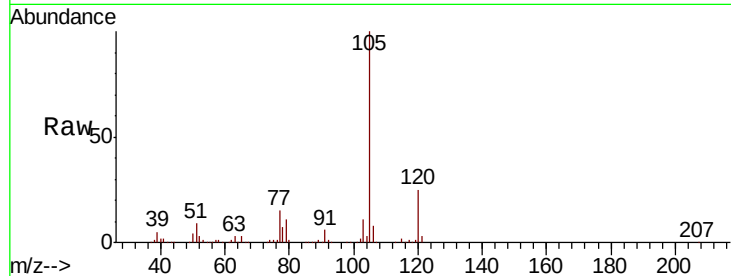
ClientSampleId :

Tot Ion:105 Resp: 446254

Ion Ratio Lower Upper

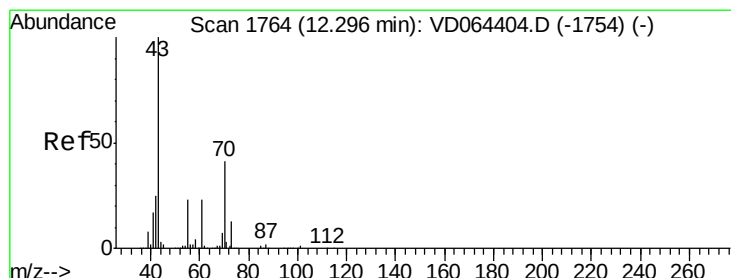
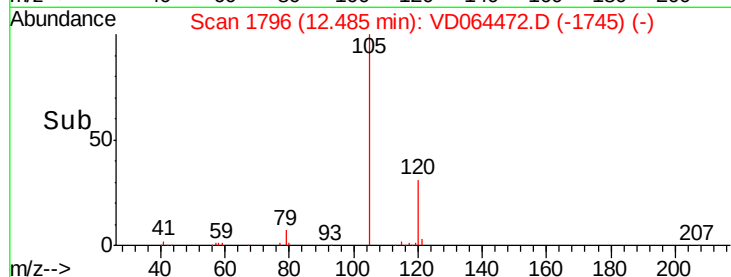
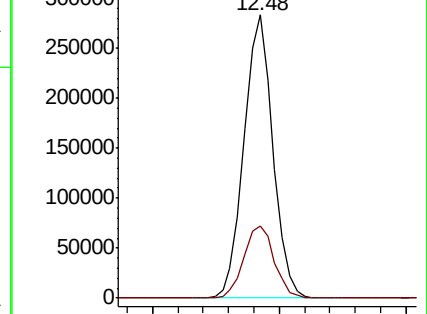
105 100

120 26.7 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.483 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Tgt Ion: 43 Resp: 96345

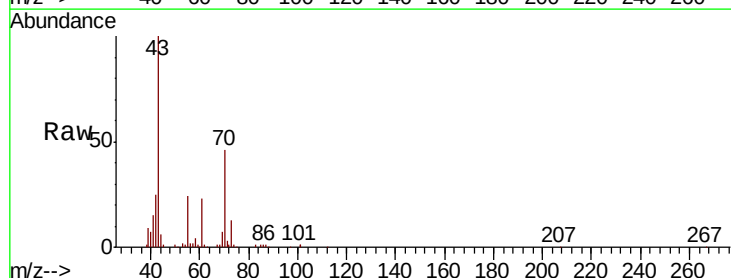
Ion Ratio Lower Upper

43 100

70 42.6 33.4 50.2

55 24.3 18.9 28.3

61 23.6 18.5 27.7

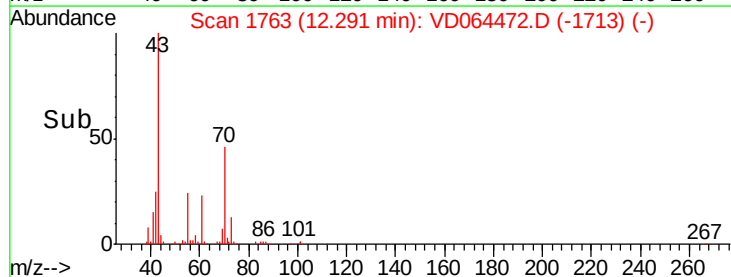
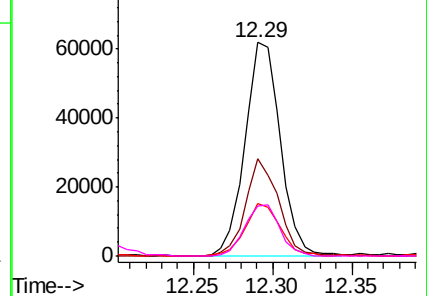


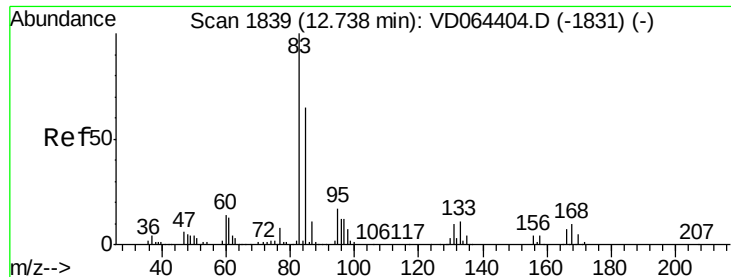
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 20.298 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

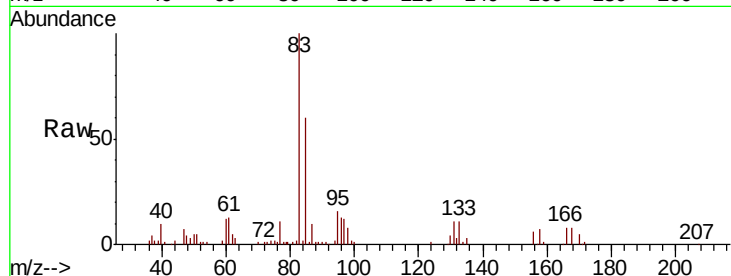
Tot Ion: 83 Resp: 73135

Ion Ratio Lower Upper

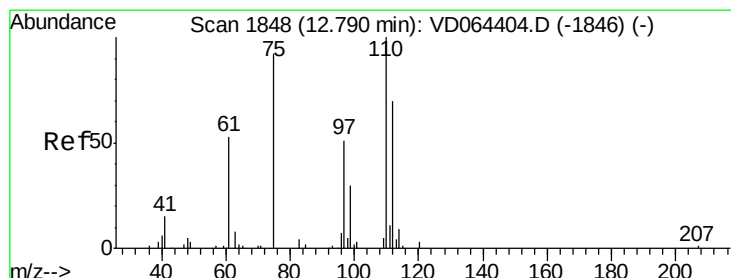
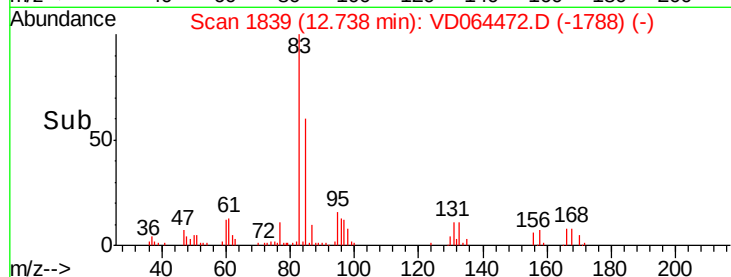
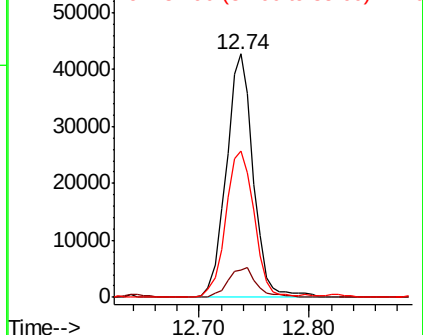
83 100

131 12.8 5.7 17.0

85 63.7 31.3 93.9



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 38.570 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD064472.D

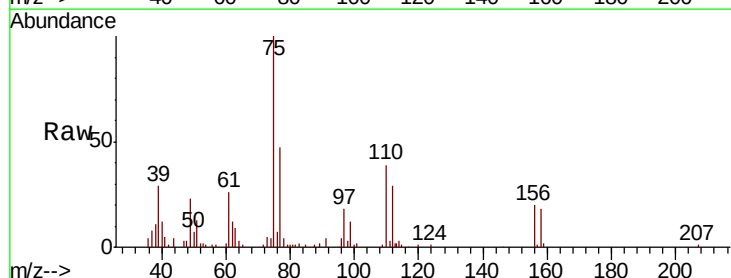
Acq: 09 Dec 2019 13:36

Tgt Ion: 75 Resp: 96089

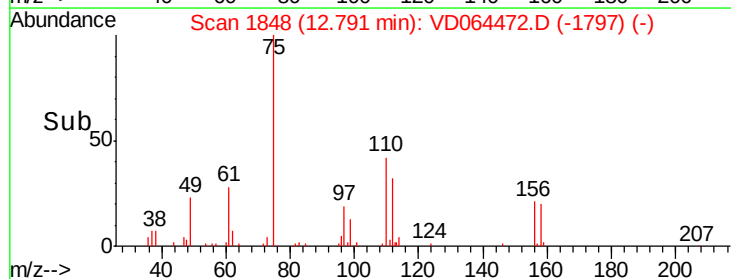
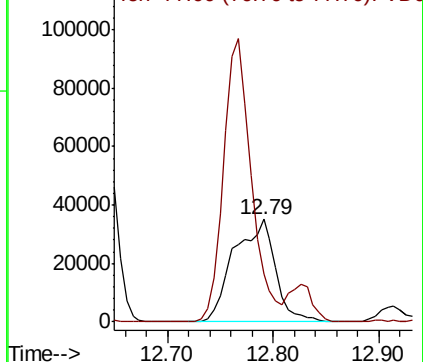
Ion Ratio Lower Upper

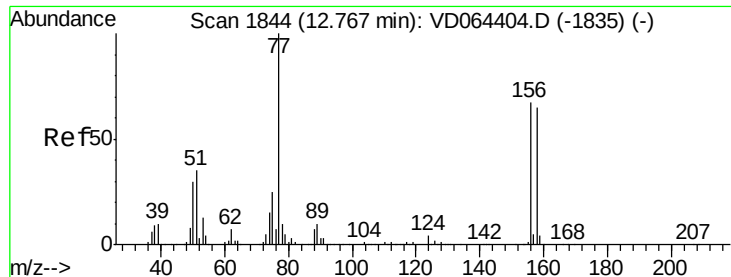
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 20.890 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

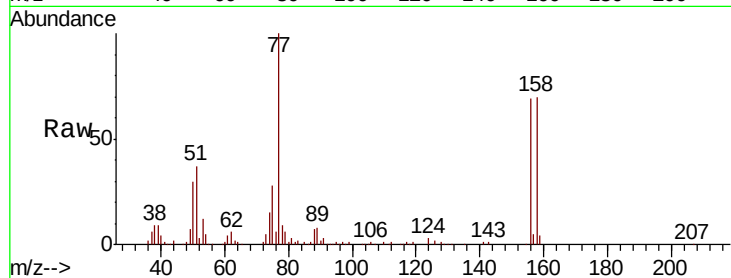
Tot Ion:156 Resp: 112399

Ion Ratio Lower Upper

156 100

77 158.5 80.0 240.2

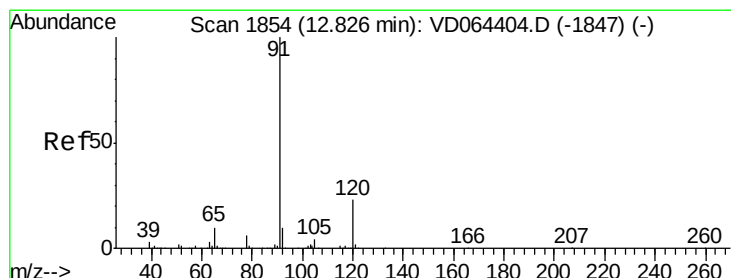
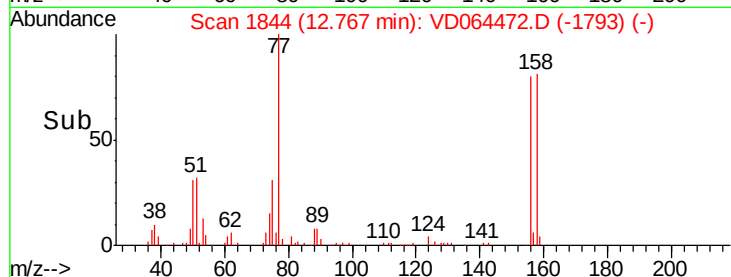
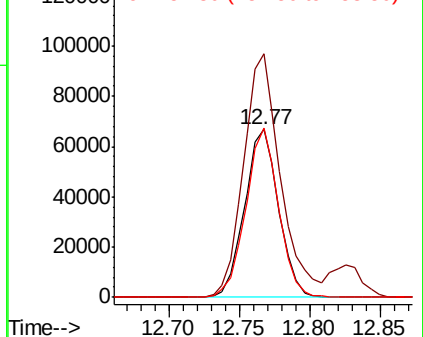
158 97.3 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.065 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064472.D

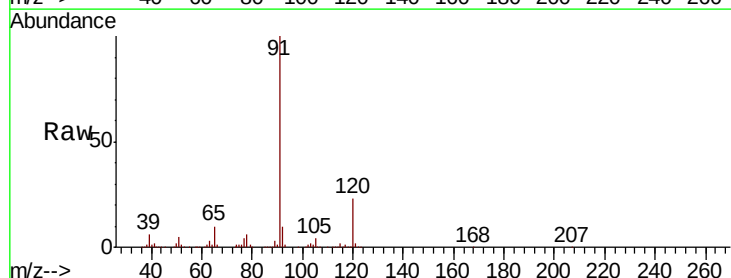
Acq: 09 Dec 2019 13:36

Tgt Ion: 91 Resp: 529560

Ion Ratio Lower Upper

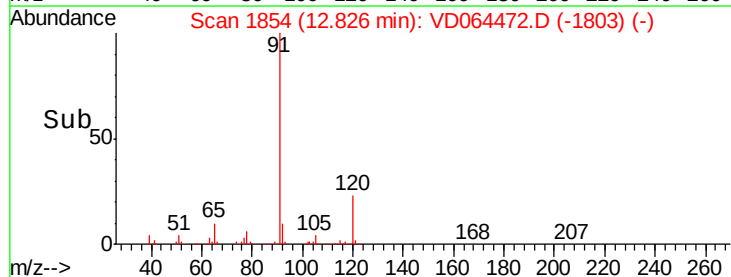
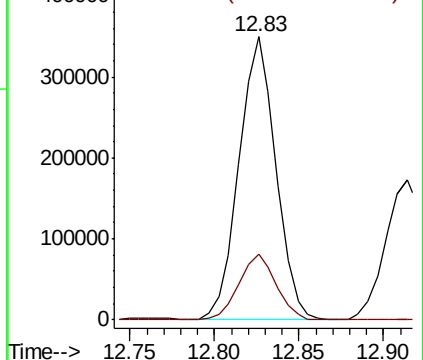
91 100

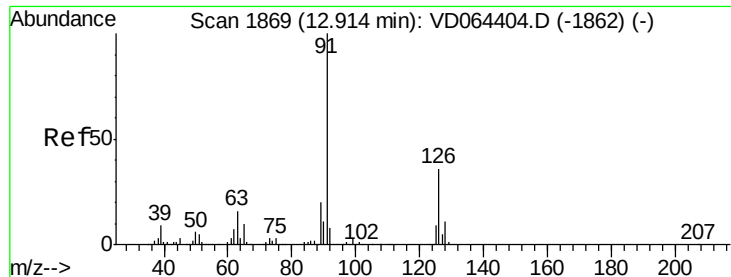
120 23.5 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

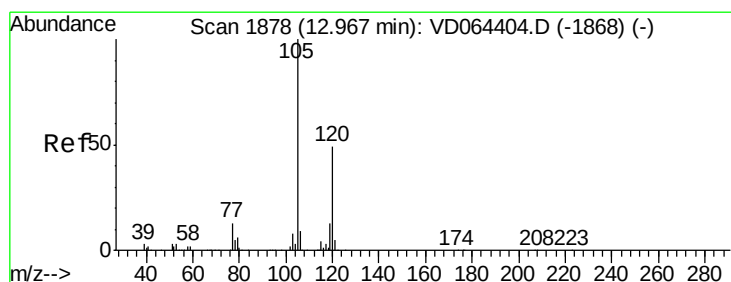
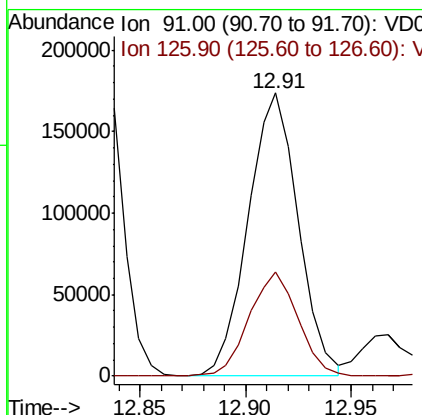
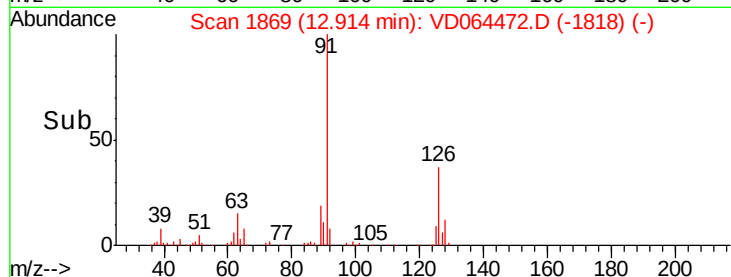
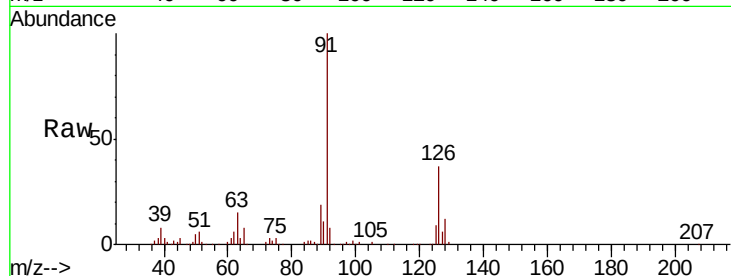




#79
2-Chlorotoluene
Concen: 20.612 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

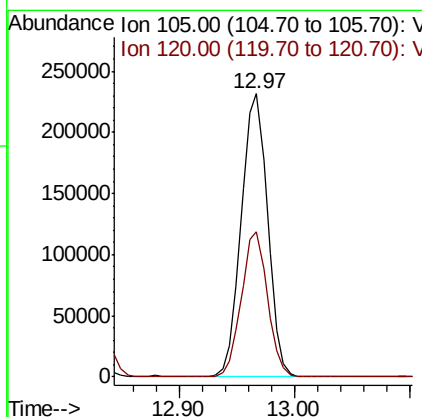
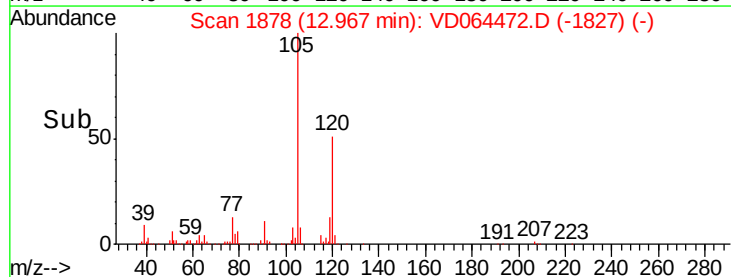
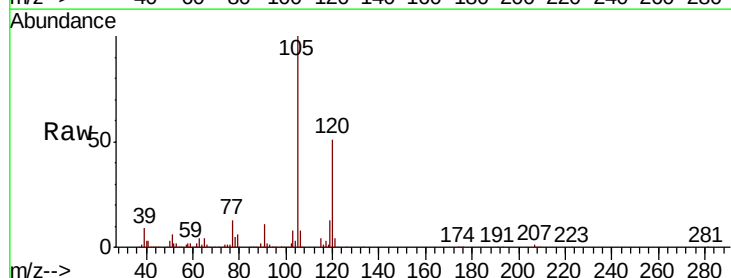
Instrument :
MSVOA_D
ClientSampled :

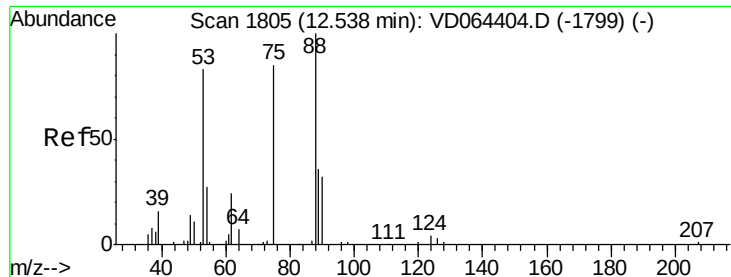
Tot Ion: 91 Resp: 285122
Ion Ratio Lower Upper
91 100
126 36.4 18.0 54.0



#80
1,3,5-Trimethylbenzene
Concen: 20.717 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 105 Resp: 368856
Ion Ratio Lower Upper
105 100
120 50.6 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 20.424 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

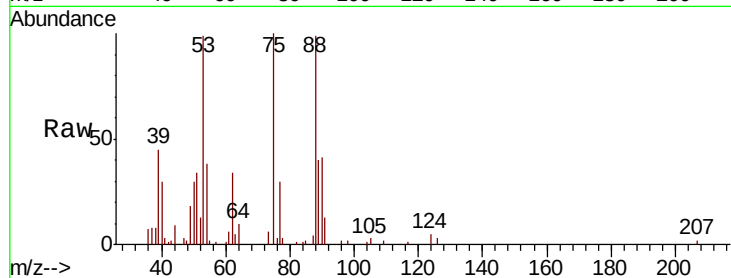
Tot Ion: 75 Resp: 23335

Ion Ratio Lower Upper

75 100

53 101.5 81.0 121.6

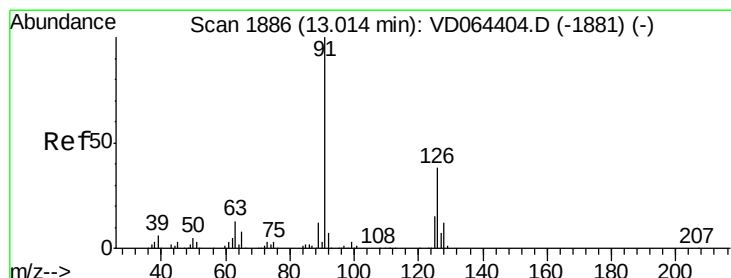
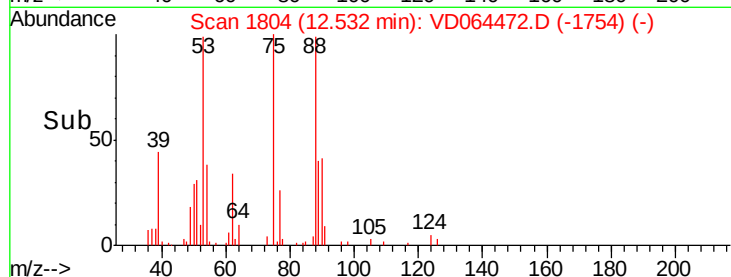
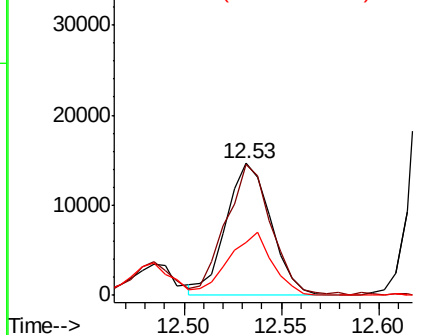
89 46.7 38.5 57.7



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 20.609 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD064472.D

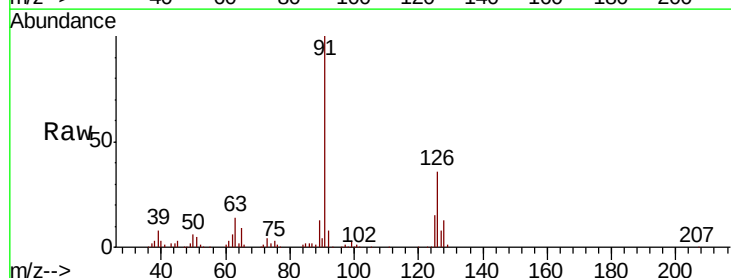
Acq: 09 Dec 2019 13:36

Tgt Ion: 91 Resp: 301829

Ion Ratio Lower Upper

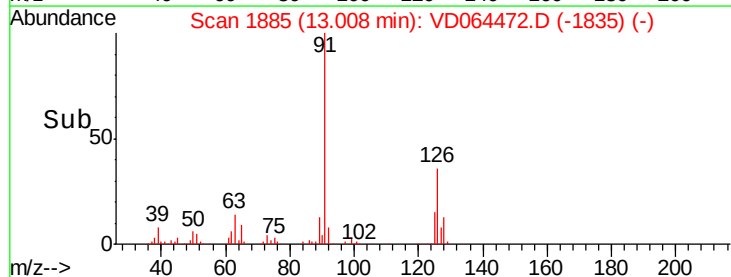
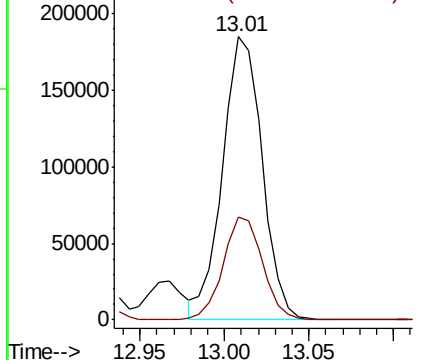
91 100

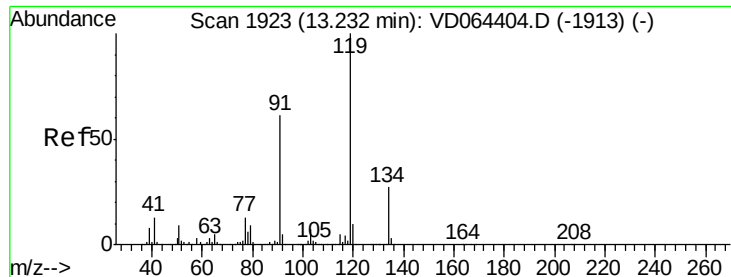
126 36.0 18.2 54.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 20.971 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

ClientSampleId :

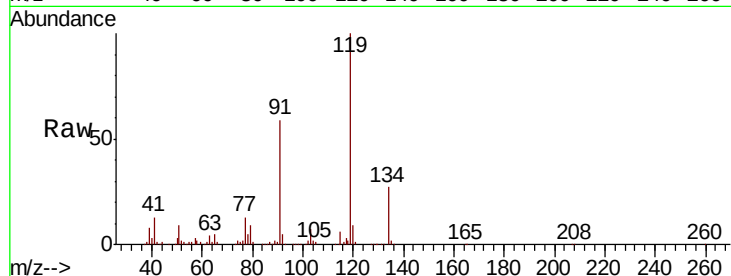
Tot Ion:119 Resp: 324614

Ion Ratio Lower Upper

119 100

91 61.4 31.2 93.6

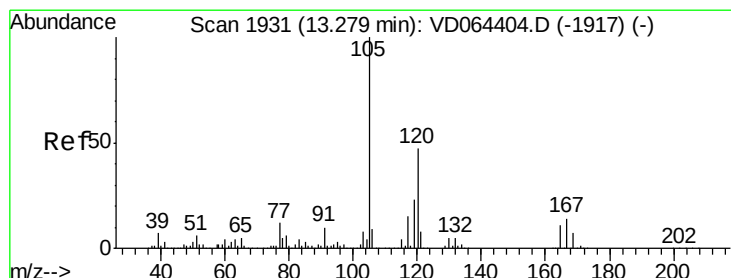
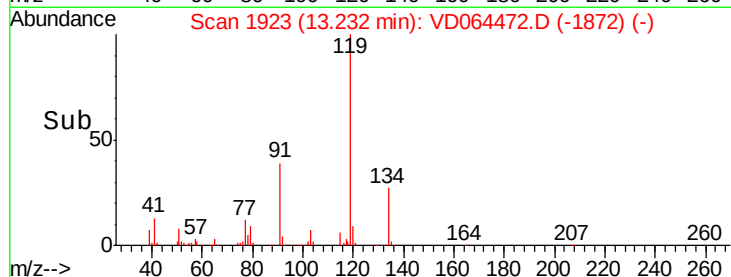
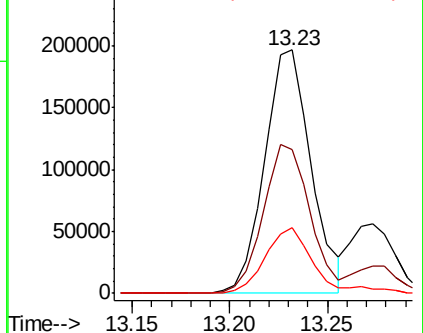
134 28.2 13.9 41.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.369 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064472.D

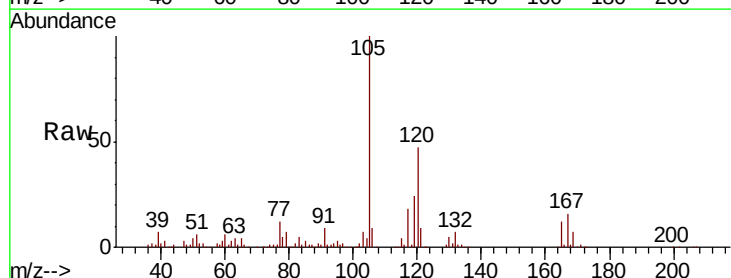
Acq: 09 Dec 2019 13:36

Tgt Ion:105 Resp: 364676

Ion Ratio Lower Upper

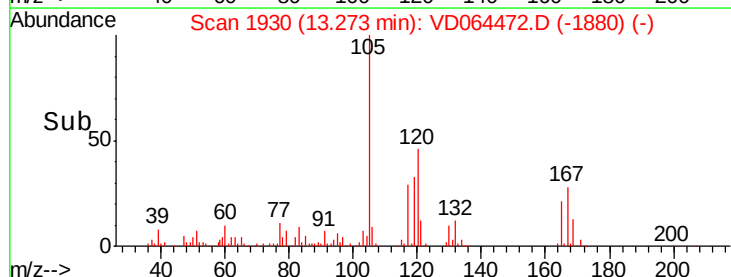
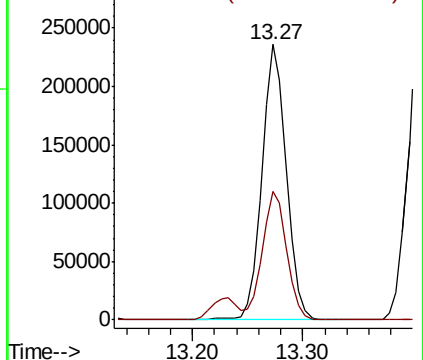
105 100

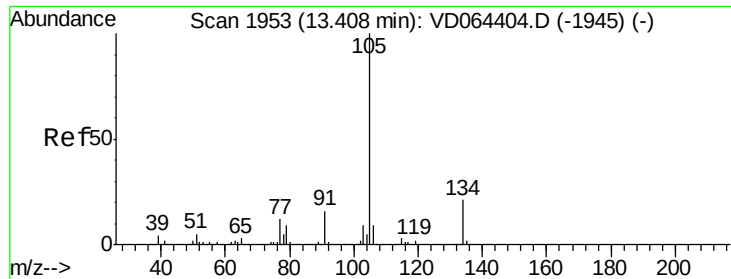
120 46.9 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.707 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

Instrument :

MSVOA_D

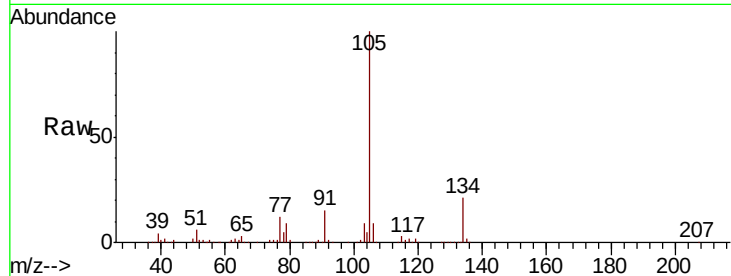
ClientSampleId :

Tot Ion:105 Resp: 439918

Ion Ratio Lower Upper

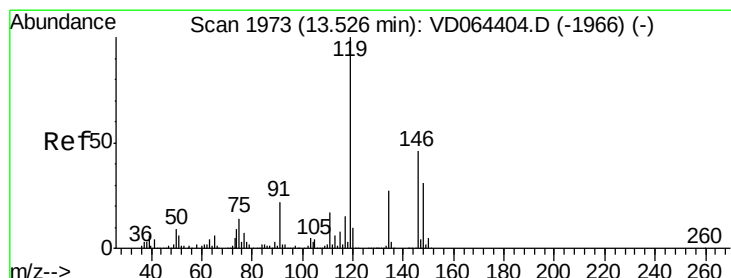
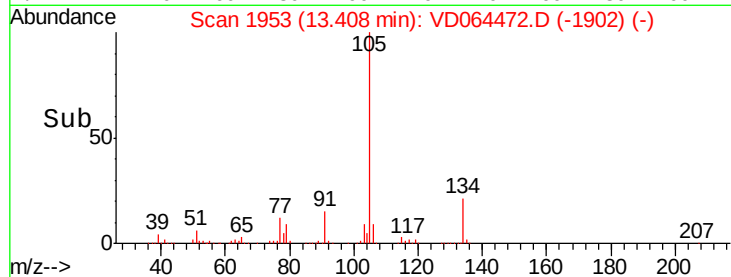
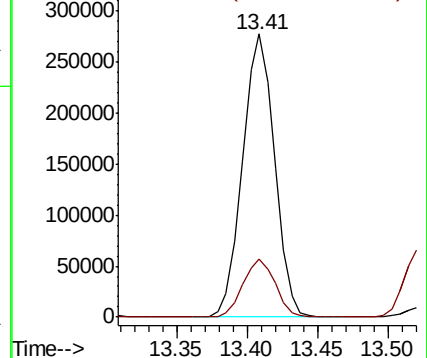
105 100

134 20.6 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.358 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VD064472.D

Acq: 09 Dec 2019 13:36

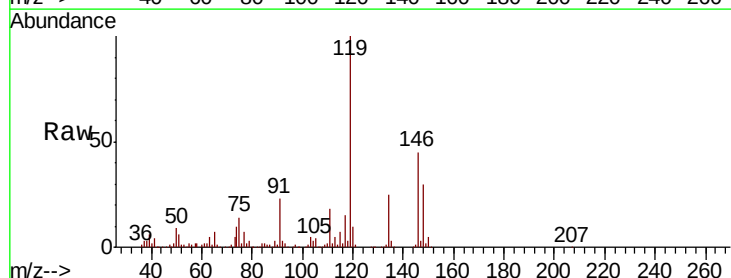
Tgt Ion:119 Resp: 408328

Ion Ratio Lower Upper

119 100

134 26.3 13.5 40.4

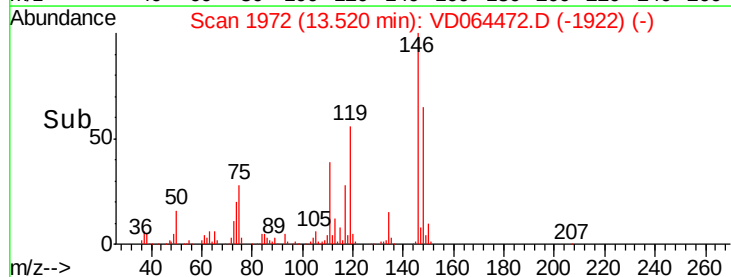
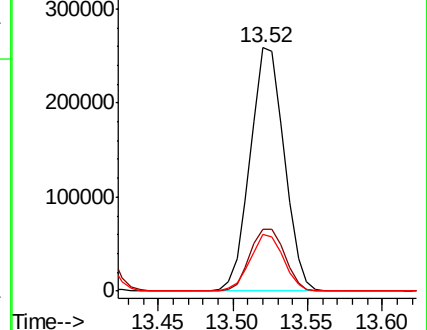
91 22.7 11.2 33.5

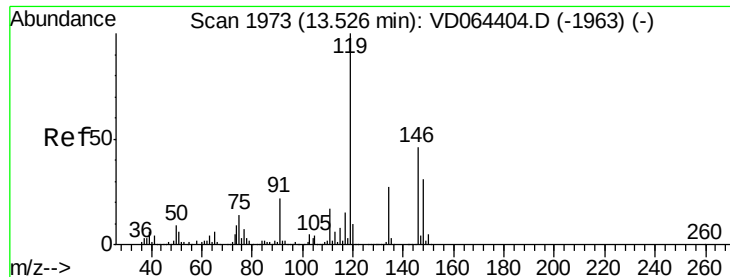


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

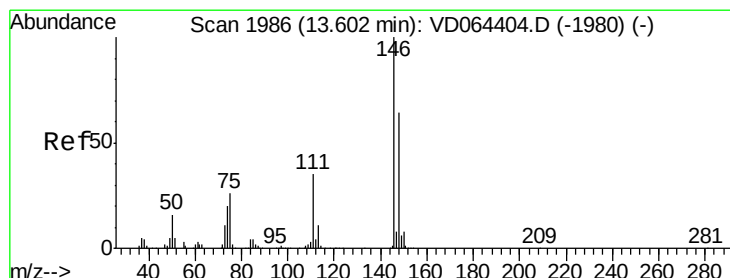
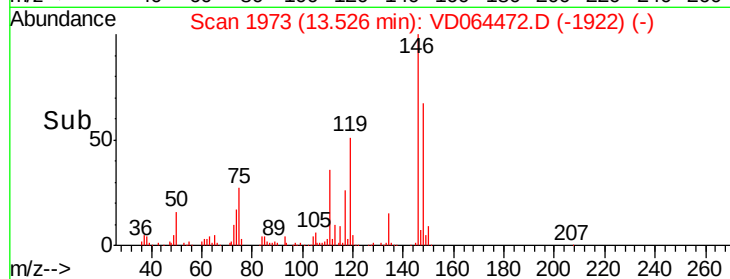
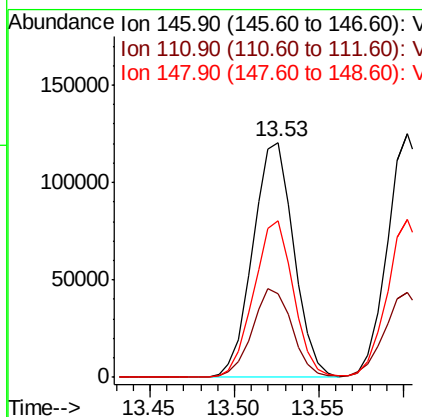
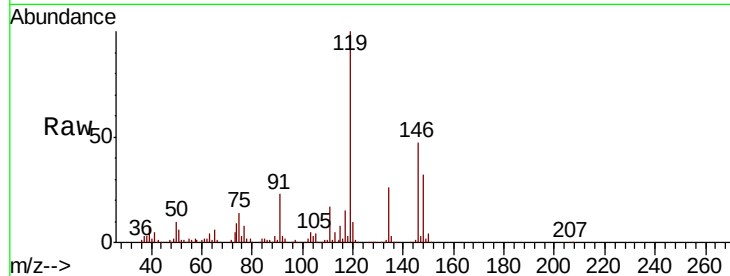




#87
 1,3-Dichlorobenzene
 Concen: 19.932 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

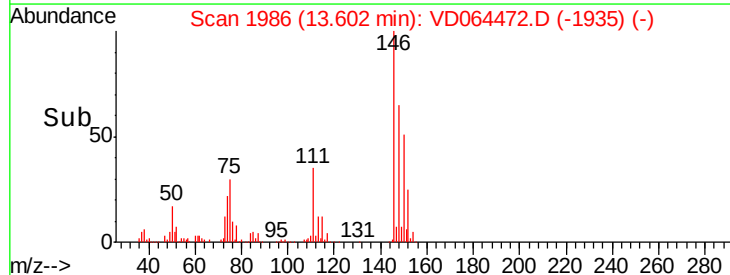
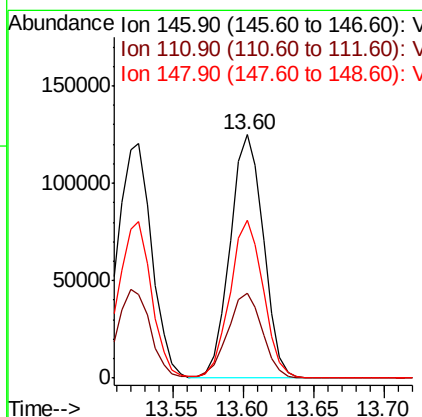
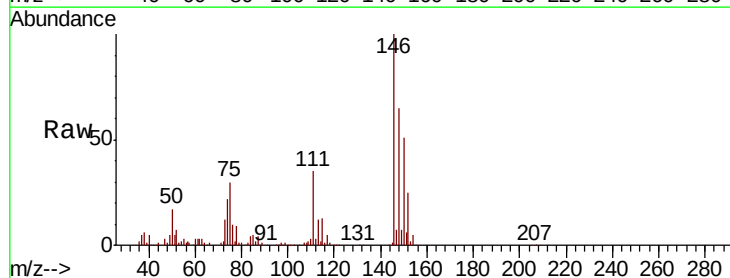
Instrument :
 MSVOA_D
 ClientSampleId :

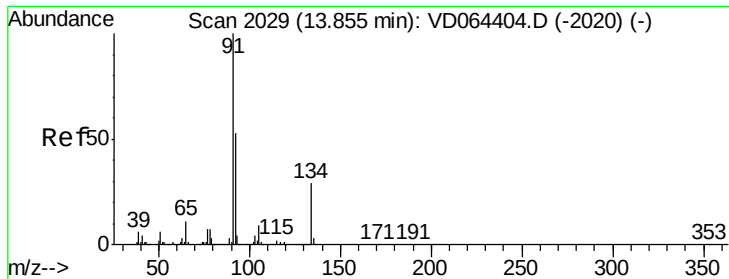
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.8	56.4
148	64.5	32.6	97.8



#88
 1,4-Dichlorobenzene
 Concen: 20.329 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.2	54.6
148	65.0	31.8	95.4

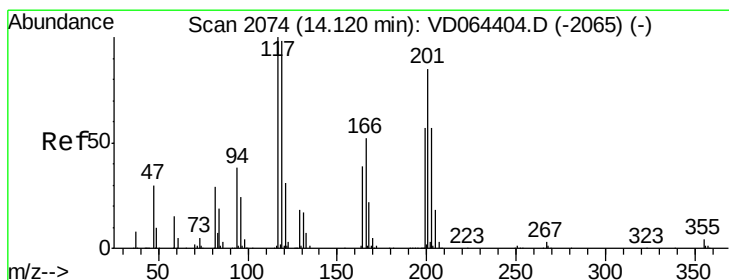
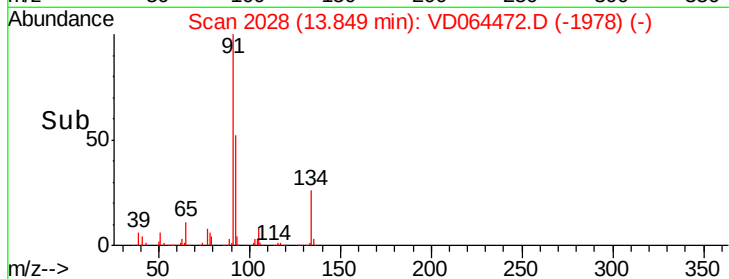
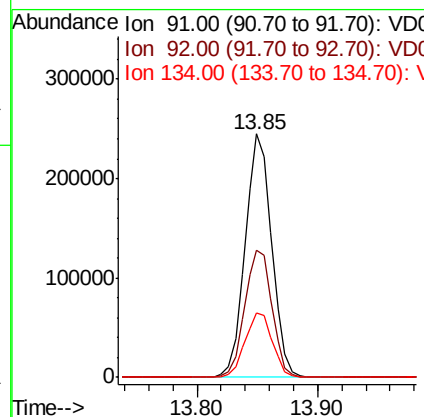
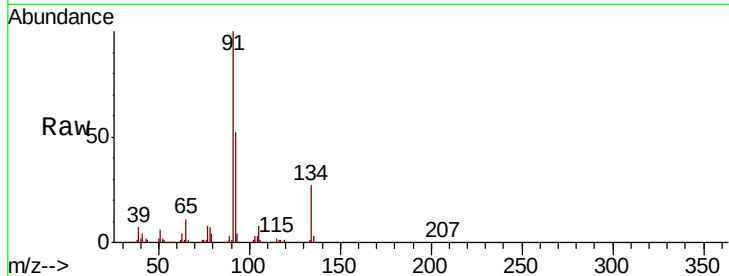




#89
n-Butylbenzene
Concen: 20.568 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.01 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

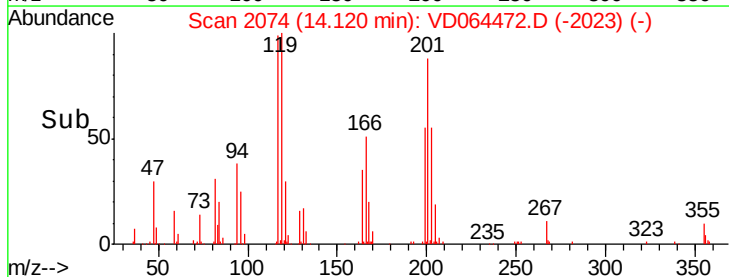
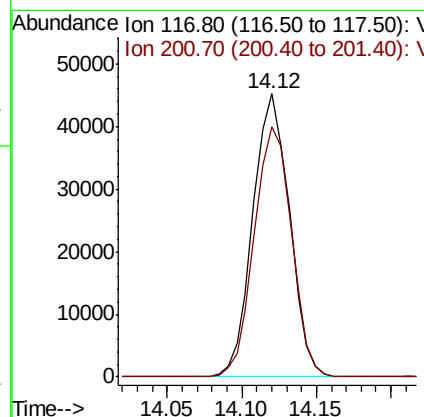
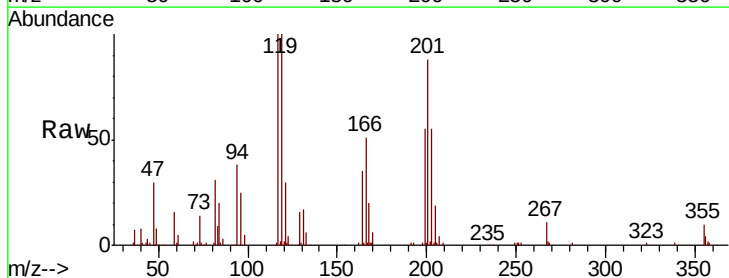
Instrument :
MSVOA_D
ClientSampleId :

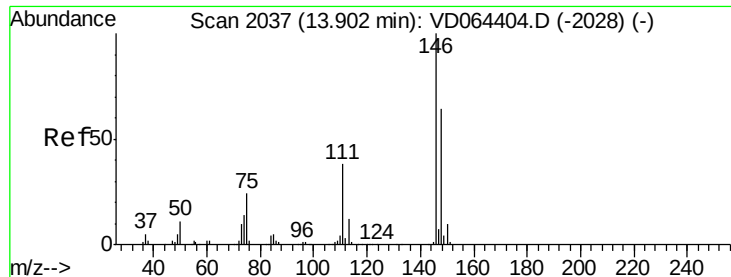
Tot Ion: 91 Resp: 374636
Ion Ratio Lower Upper
91 100
92 53.6 26.5 79.4
134 27.4 13.9 41.7



#90
Hexachloroethane
Concen: 20.469 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion: 117 Resp: 76787
Ion Ratio Lower Upper
117 100
201 90.3 44.3 132.8

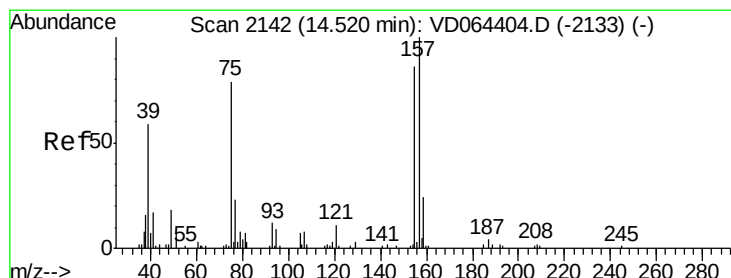
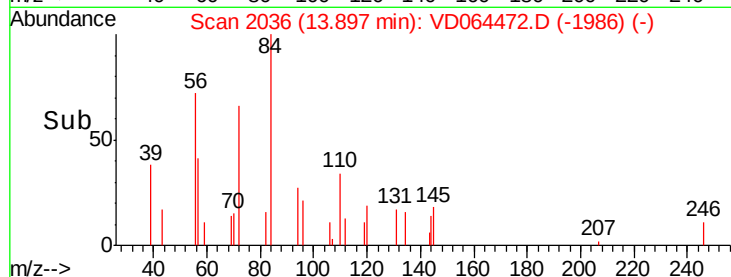
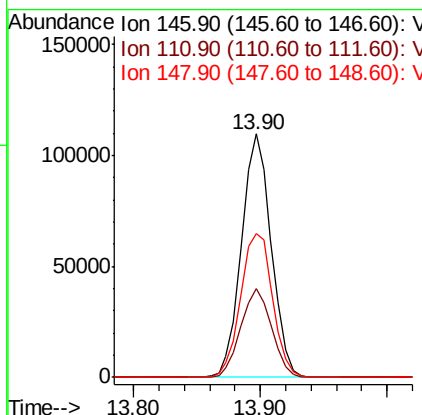
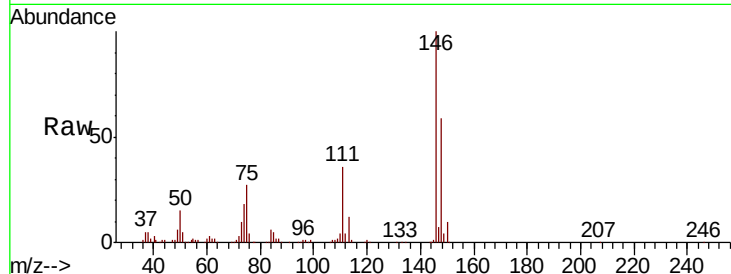




#91
 1,2-Dichlorobenzene
 Concen: 20.421 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

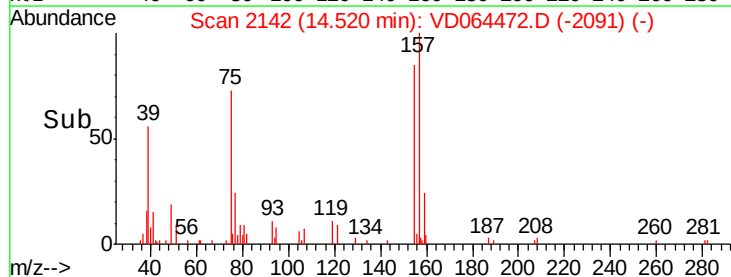
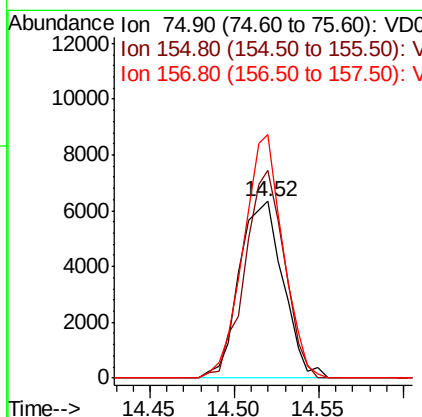
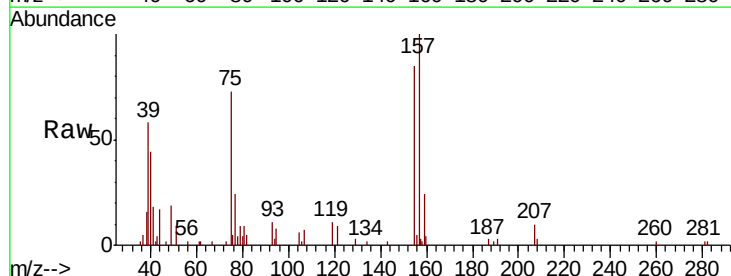
Instrument :
 MSVOA_D
 ClientSampled :

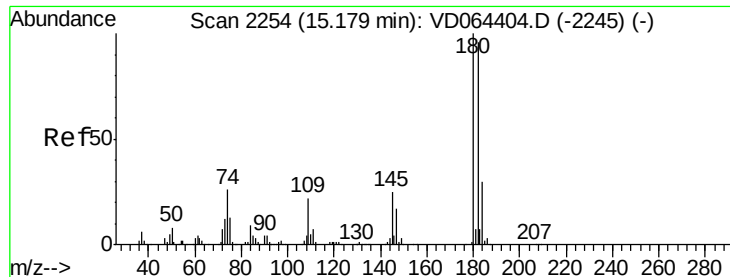
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.3
148	63.8	32.0	96.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.464 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	106.5	51.9	155.7
157	124.8	63.2	189.8

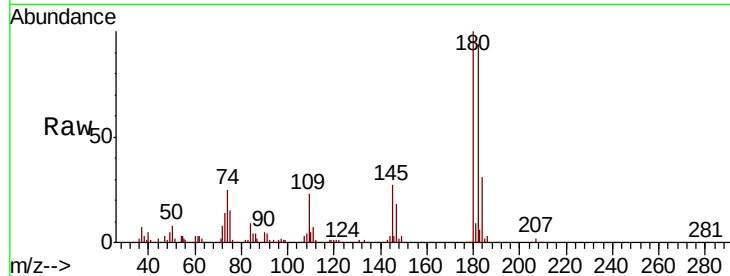




#93
 1,2,4-Trichlorobenzene
 Concen: 20.111 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.4	142.3
145	27.9	14.0	41.9

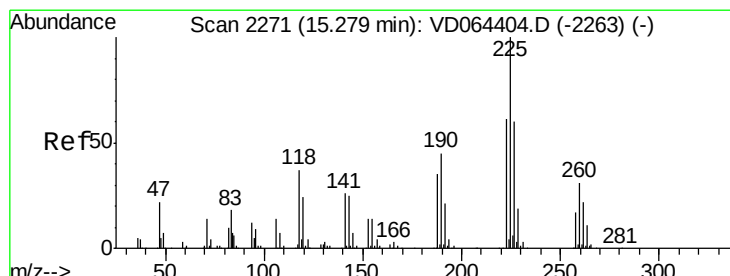
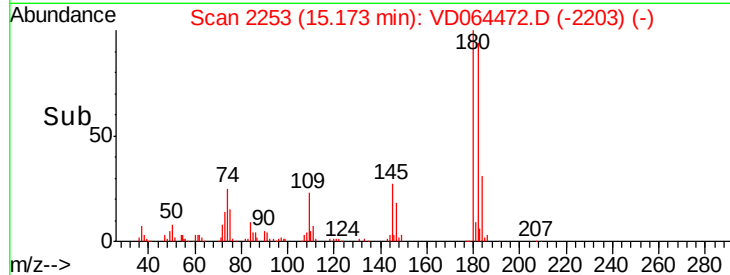
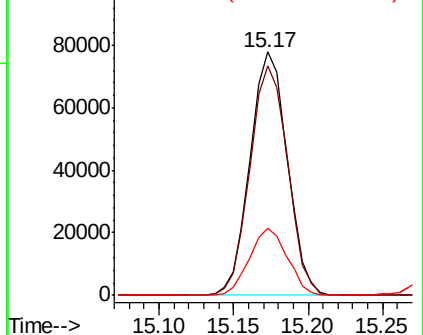


Abundance

Ion 179.80 (179.50 to 180.50): V

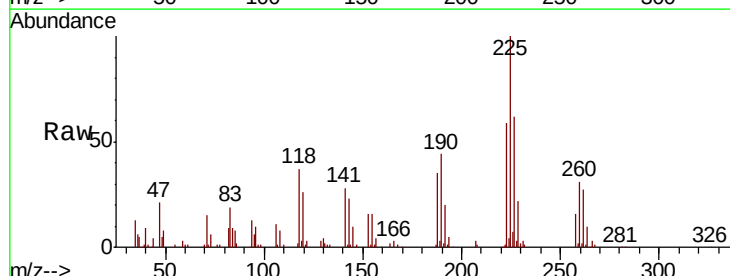
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 19.792 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064472.D
 Acq: 09 Dec 2019 13:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.1	93.3
227	64.2	31.8	95.4

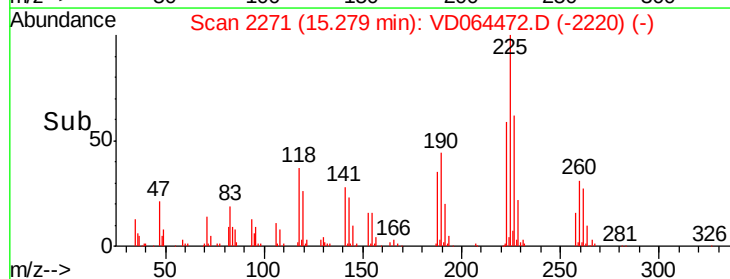
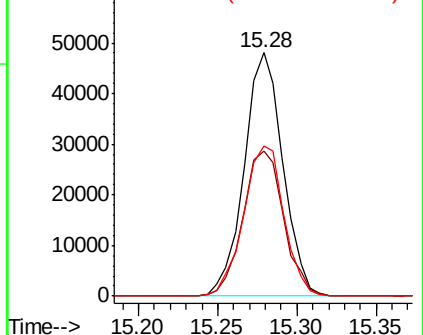


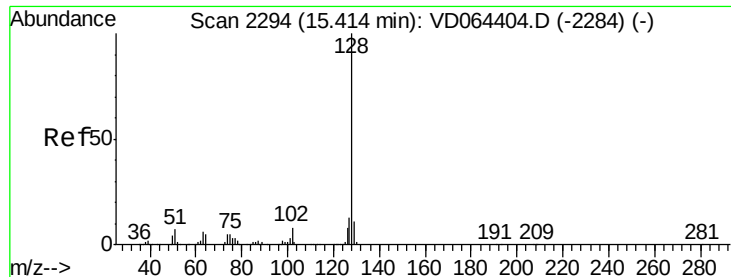
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

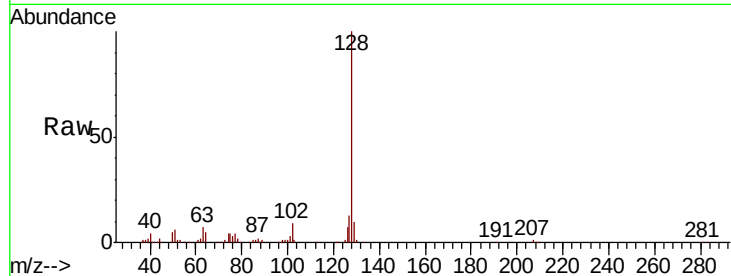




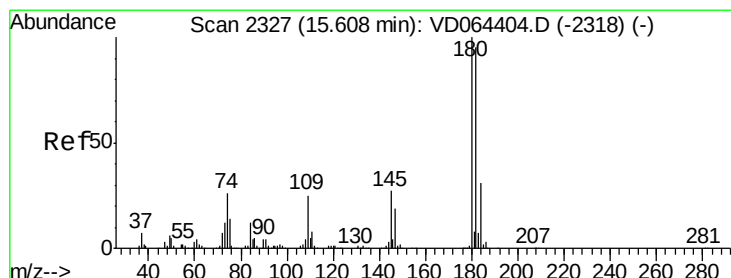
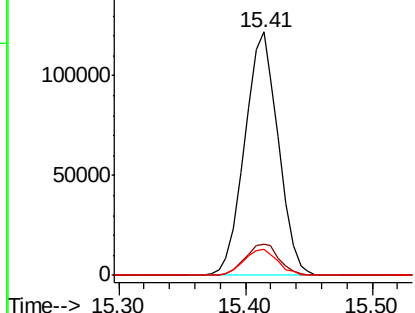
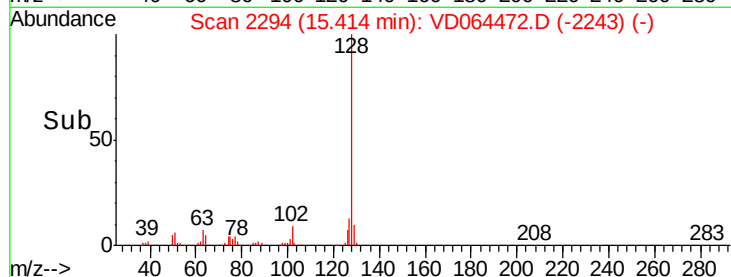
#95
Naphthalene
Concen: 20.053 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 223677
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 10.7 8.8 13.2

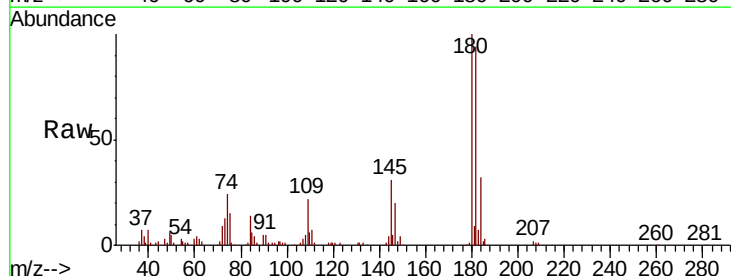


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.844 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064472.D
Acq: 09 Dec 2019 13:36

Tgt Ion:180 Resp: 113218
Ion Ratio Lower Upper
180 100
182 96.6 47.6 142.9
145 30.1 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

