

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103119\
 Data File : VD064129.D
 Acq On : 31 Oct 2019 13:31
 Operator : VA/SY
 Sample : VD1031SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 01 06:03:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 08:00:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	228651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	336303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	325618	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	172940	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	92736	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
35) Dibromofluoromethane	7.92	113	104886	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
50) Toluene-d8	10.34	98	420063	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
62) 4-Bromofluorobenzene	12.64	95	140738	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	49186	21.066	ug/l	98
3) Chloromethane	2.21	50	79629	20.441	ug/l	96
4) Vinyl Chloride	2.35	62	86362	20.443	ug/l	98
5) Bromomethane	2.76	94	56548	20.540	ug/l	97
6) Chloroethane	2.92	64	55196	21.036	ug/l #	86
7) Trichlorofluoromethane	3.27	101	122087	20.994	ug/l	92
8) Diethyl Ether	3.70	74	21847	21.613	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.08	101	43624	20.816	ug/l	99
10) Methyl Iodide	4.30	142	50239	19.349	ug/l	98
11) Tert butyl alcohol	5.25	59	10293	102.123	ug/l #	83
12) 1,1-Dichloroethene	4.06	96	41972	21.161	ug/l	84
13) Acrolein	3.93	56	9737	83.976	ug/l	96
14) Allyl chloride	4.70	41	46424	19.998	ug/l	99
15) Acrylonitrile	5.43	53	39154	104.861	ug/l	99
16) Acetone	4.17	43	33544	96.948	ug/l #	88
17) Carbon Disulfide	4.40	76	123439	20.252	ug/l	98
18) Methyl Acetate	4.72	43	20570	22.350	ug/l #	84
19) Methyl tert-butyl Ether	5.48	73	79155	19.667	ug/l	94
20) Methylene Chloride	4.96	84	53348	21.839	ug/l	89
21) trans-1,2-Dichloroethene	5.46	96	47056	21.134	ug/l	99
22) Diisopropyl ether	6.37	45	98957	19.247	ug/l #	93
23) Vinyl Acetate	6.31	43	286198	101.553	ug/l	100
24) 1,1-Dichloroethane	6.27	63	68891	19.843	ug/l	99
25) 2-Butanone	7.23	43	48004	100.357	ug/l	97
26) 2,2-Dichloropropane	7.21	77	64831	19.674	ug/l	97
27) cis-1,2-Dichloroethene	7.21	96	47372	19.014	ug/l	94
28) Bromochloromethane	7.55	49	19283	15.858	ug/l	98
29) Tetrahydrofuran	7.57	42	28793	103.140	ug/l	99
30) Chloroform	7.71	83	79041	19.896	ug/l	85
31) Cyclohexane	7.98	56	63996	18.920	ug/l	88
32) 1,1,1-Trichloroethane	7.90	97	75499	20.416	ug/l	98
36) 1,1-Dichloropropene	8.11	75	60774	19.286	ug/l	100
37) Ethyl Acetate	7.31	43	22445	23.140	ug/l #	94
38) Carbon Tetrachloride	8.10	117	67295	19.573	ug/l	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	77546	20.046	ug/l	97
40) Benzene	8.35	78	170870	19.884	ug/l	99
41) Methacrylonitrile	7.55	41	14165	25.306	ug/l #	17
42) 1,2-Dichloroethane	8.43	62	45803	20.178	ug/l	98
43) Isopropyl Acetate	8.46	43	37472	19.116	ug/l	99
44) Trichloroethene	9.11	130	54594	20.961	ug/l	100
45) 1,2-Dichloropropane	9.39	63	40636	20.405	ug/l	94
46) Dibromomethane	9.48	93	23595	19.672	ug/l	99
47) Bromodichloromethane	9.66	83	60403	19.962	ug/l #	93
48) Methyl methacrylate	9.46	41	20178	22.259	ug/l	87
49) 1,4-Dioxane	9.47	88	6363	463.458	ug/l #	93
51) 4-Methyl-2-Pentanone	10.23	43	103560	97.043	ug/l	99
52) Toluene	10.41	92	116371	19.324	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	54808	19.404	ug/l	94
54) cis-1,3-Dichloropropene	10.10	75	64662	19.458	ug/l	93
55) 1,1,2-Trichloroethane	10.80	97	33353	19.613	ug/l	95
56) Ethyl methacrylate	10.67	69	37672	20.145	ug/l	97
57) 1,3-Dichloropropane	10.95	76	53764	19.117	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.95	63	77632	104.202	ug/l	100
59) 2-Hexanone	10.99	43	72005	91.986	ug/l	98
60) Dibromochloromethane	11.14	129	44889	19.448	ug/l	100
61) 1,2-Dibromoethane	11.25	107	33388	19.631	ug/l	98
64) Tetrachloroethene	10.88	164	49646	21.223	ug/l	95
65) Chlorobenzene	11.67	112	132144	19.641	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	47470	18.856	ug/l	96
67) Ethyl Benzene	11.75	91	231790	19.369	ug/l	98
68) m/p-Xylenes	11.86	106	187291	38.910	ug/l	99
69) o-Xylene	12.18	106	84913	19.330	ug/l	97
70) Styrene	12.20	104	147339	19.447	ug/l	99
71) Bromoform	12.37	173	27965	20.799	ug/l #	94
73) Isopropylbenzene	12.48	105	238231	19.824	ug/l	100
74) N-amyl acetate	12.30	43	36646	18.355	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	36896	19.478	ug/l	97
76) 1,2,3-Trichloropropane	12.78	75	46315	39.856	ug/l #	100
77) Bromobenzene	12.77	156	57548	19.833	ug/l	96
78) n-propylbenzene	12.83	91	280163	19.893	ug/l	97
79) 2-Chlorotoluene	12.91	91	150312	19.911	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	197276	19.614	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	10843	19.056	ug/l	89
82) 4-Chlorotoluene	13.01	91	161401	20.008	ug/l	99
83) tert-Butylbenzene	13.23	119	175071	19.380	ug/l	94
84) 1,2,4-Trimethylbenzene	13.27	105	196746	19.473	ug/l	99
85) sec-Butylbenzene	13.41	105	242582	19.554	ug/l	99
86) p-Isopropyltoluene	13.52	119	224883	19.293	ug/l	100
87) 1,3-Dichlorobenzene	13.52	146	113778	19.567	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	110517	19.281	ug/l	99
89) n-Butylbenzene	13.85	91	211774	19.698	ug/l	99
90) Hexachloroethane	14.11	117	43303	19.843	ug/l	97
91) 1,2-Dichlorobenzene	13.90	146	101081	20.199	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.51	75	5056	18.276	ug/l	87

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Quant Title : SW846 8260
QLast Update : Wed Oct 30 08:00:10 2019
Response via : Initial Calibration

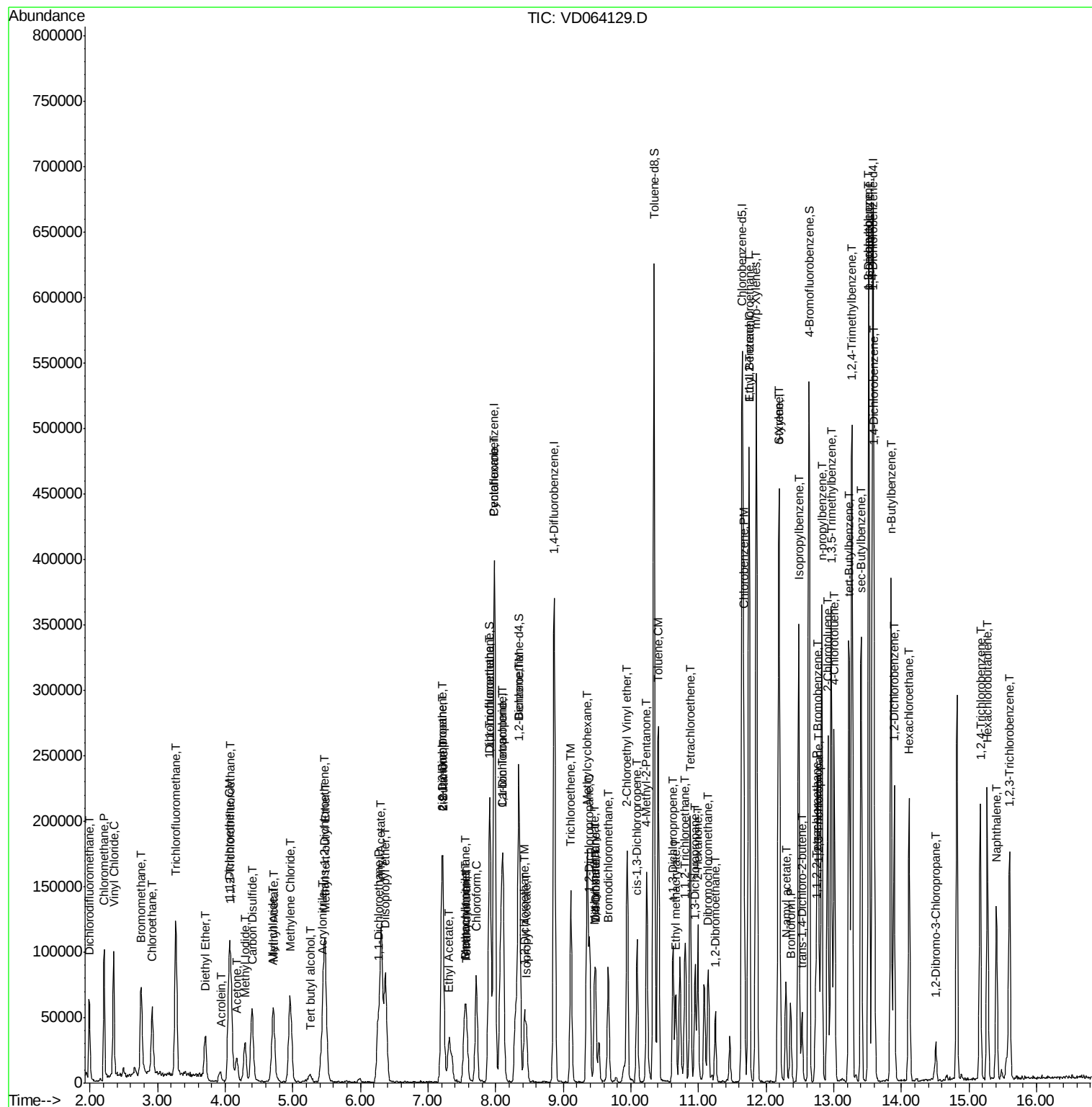
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	72250	20.086	ug/l	100
94) Hexachlorobutadiene	15.27	225	44374	21.107	ug/l	98
95) Naphthalene	15.41	128	117159	19.971	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	64147	20.588	ug/l	93

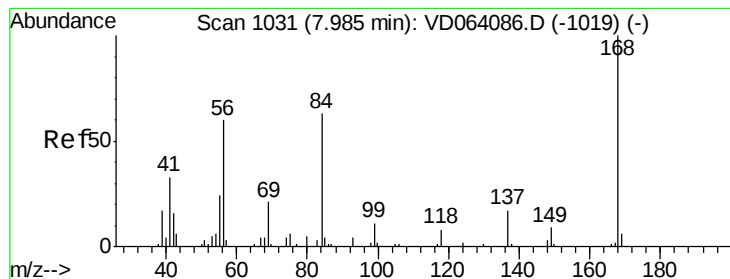
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

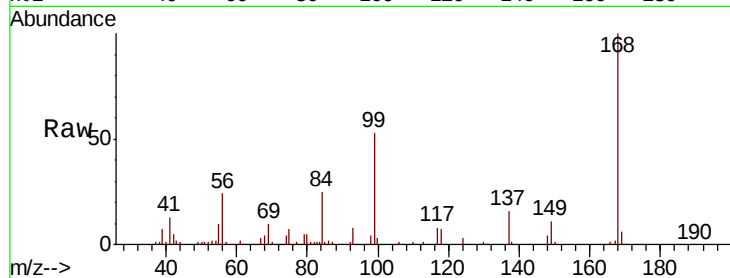
ClientSampled :

Tot Ion:168 Resp: 228651

Ion Ratio Lower Upper

168 100

99 52.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

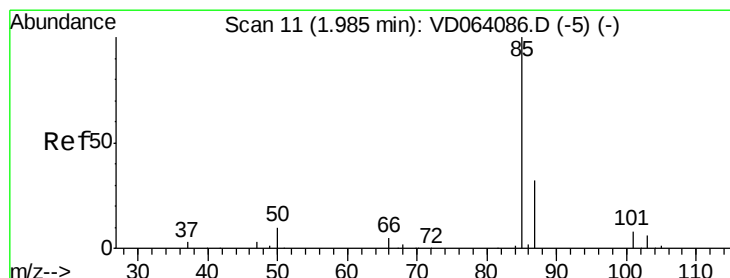
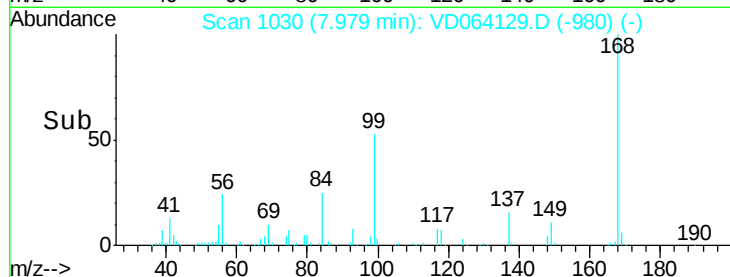
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.066 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD064129.D

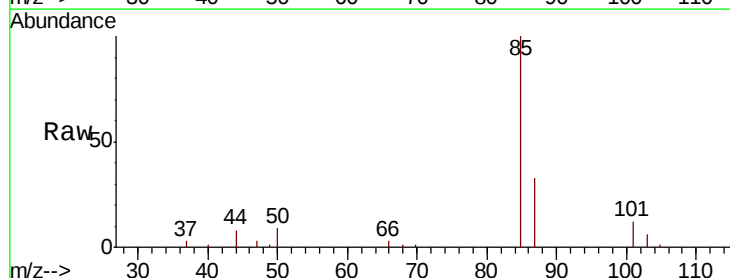
Acq: 31 Oct 2019 13:31

Tgt Ion: 85 Resp: 49186

Ion Ratio Lower Upper

85 100

87 33.1 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

40000

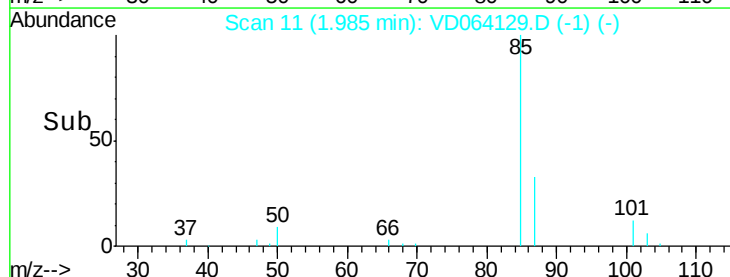
30000

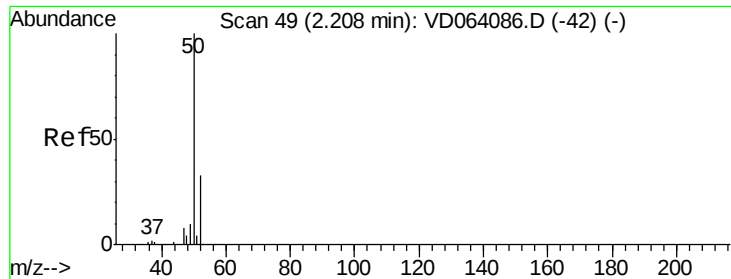
20000

10000

0

Time-->





#3

Chloromethane

Concen: 20.441 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

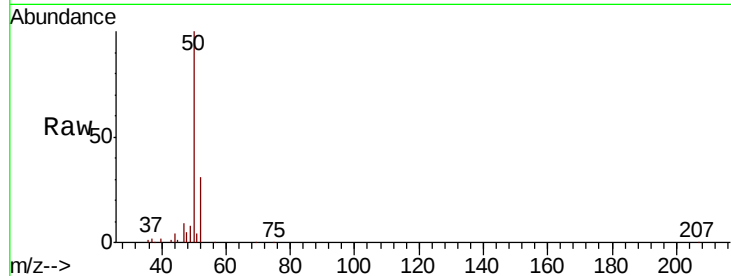
ClientSampleId :

Tot Ion: 50 Resp: 79629

Ion Ratio Lower Upper

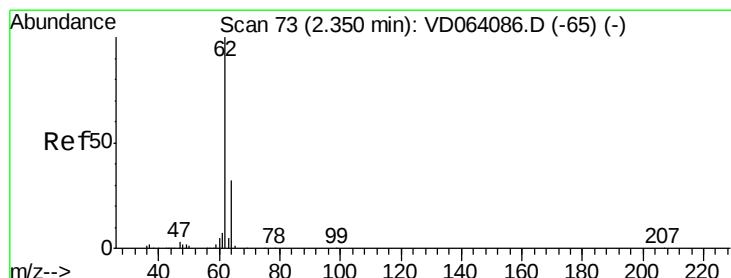
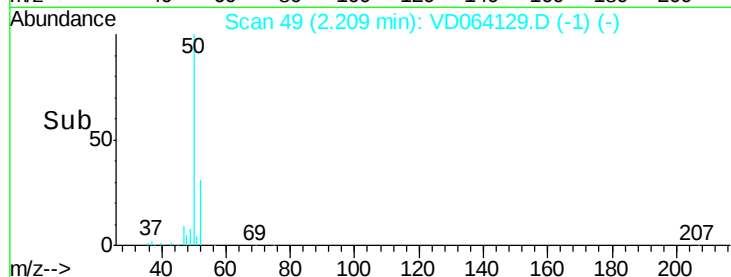
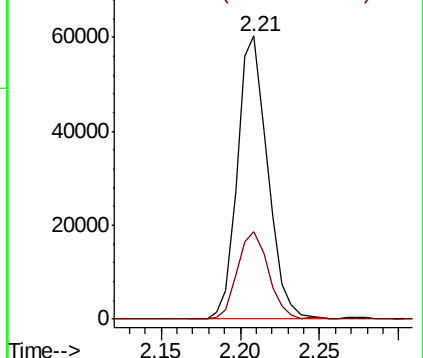
50 100

52 30.8 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.443 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064129.D

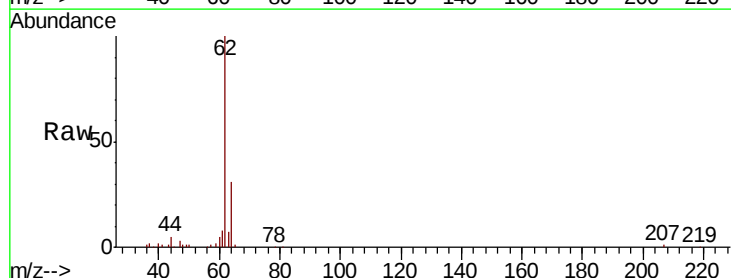
Acq: 31 Oct 2019 13:31

Tgt Ion: 62 Resp: 86362

Ion Ratio Lower Upper

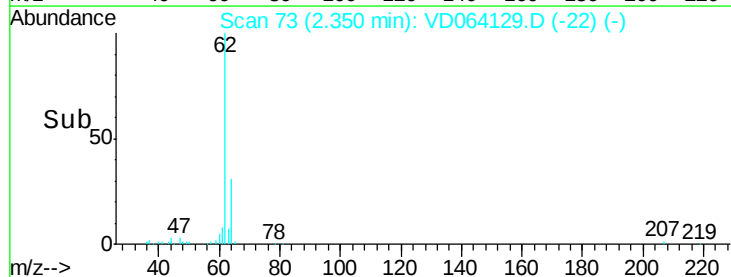
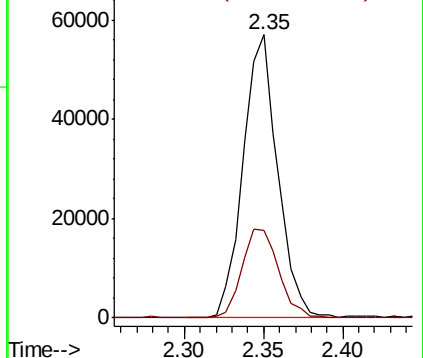
62 100

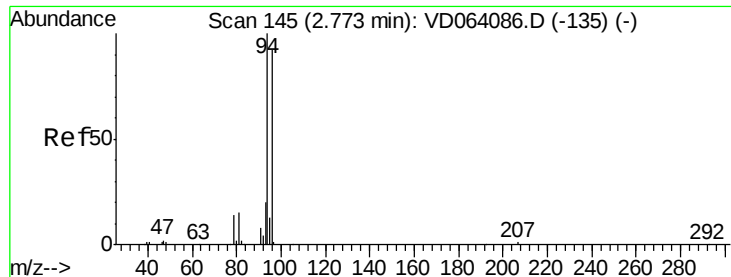
64 30.9 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.540 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.02 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

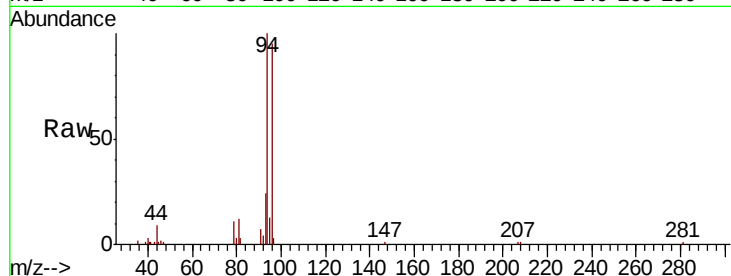
ClientSampled :

Tot Ion: 94 Resp: 56548

Ion Ratio Lower Upper

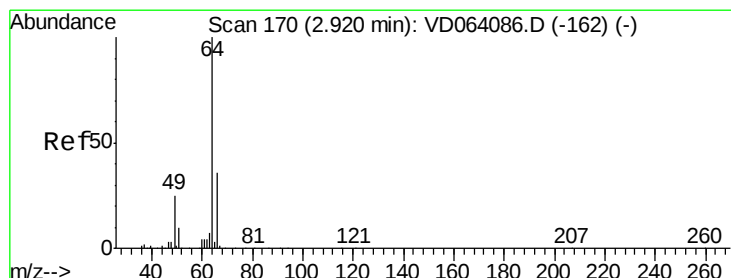
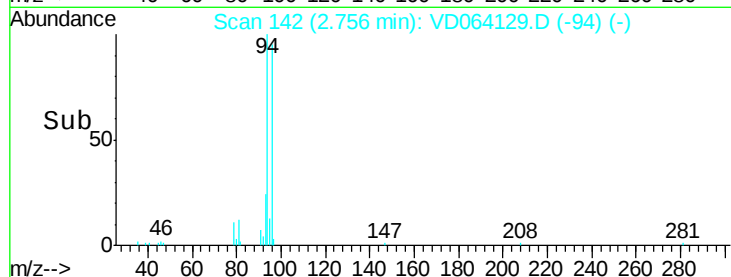
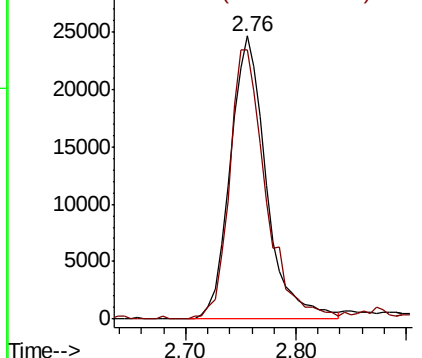
94 100

96 95.1 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 21.036 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064129.D

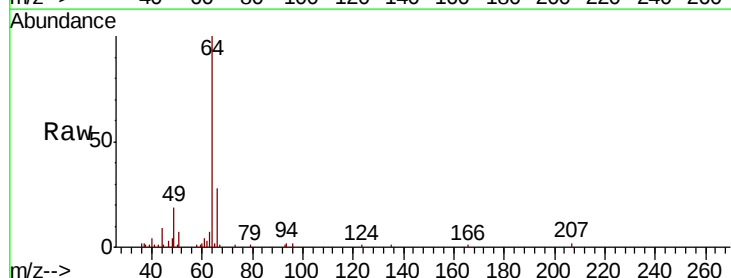
Acq: 31 Oct 2019 13:31

Tgt Ion: 64 Resp: 55196

Ion Ratio Lower Upper

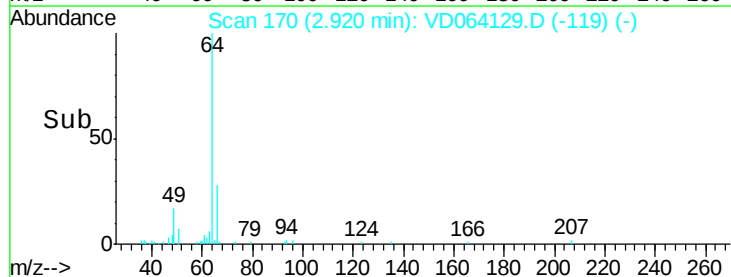
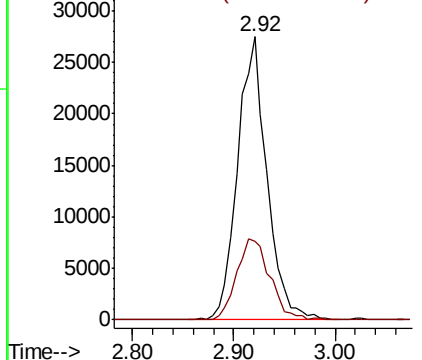
64 100

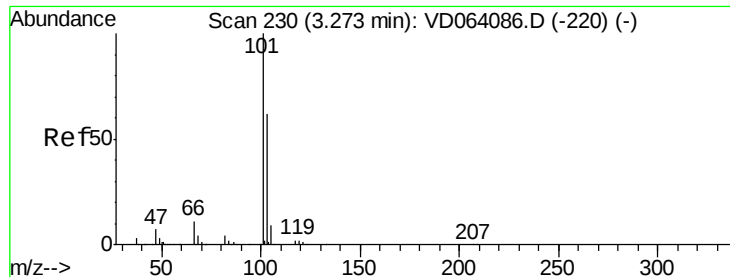
66 28.0 28.7 43.1#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



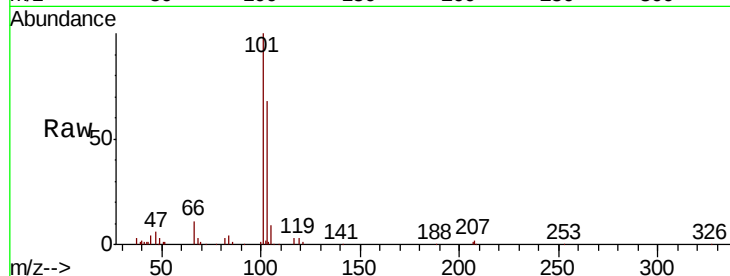


#7

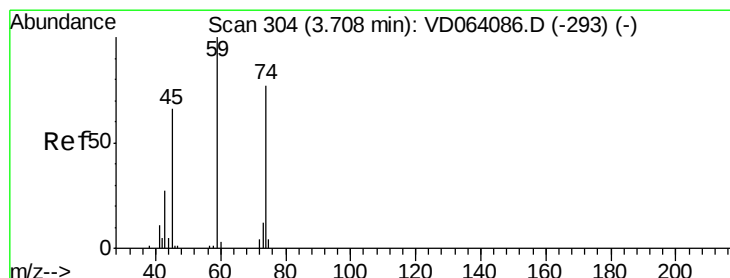
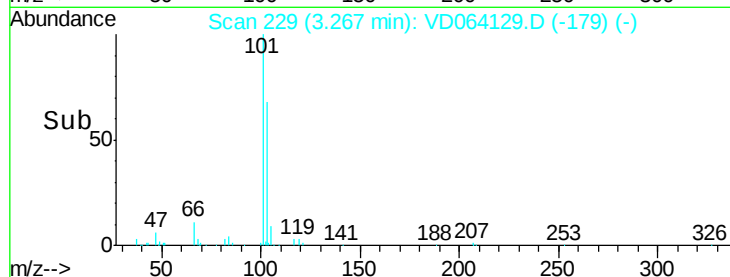
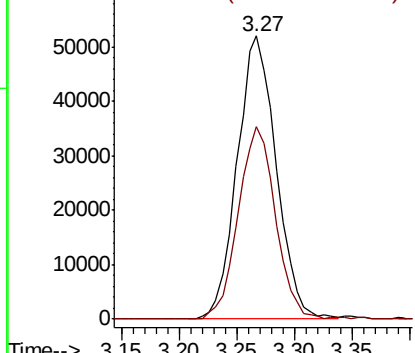
Trichlorofluoromethane
Concen: 20.994 ug/l
RT: 3.27 min Scan# 229
Delta R.T. -0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:101 Resp: 122087
Ion Ratio Lower Upper
101 100
103 68.2 49.6 74.4



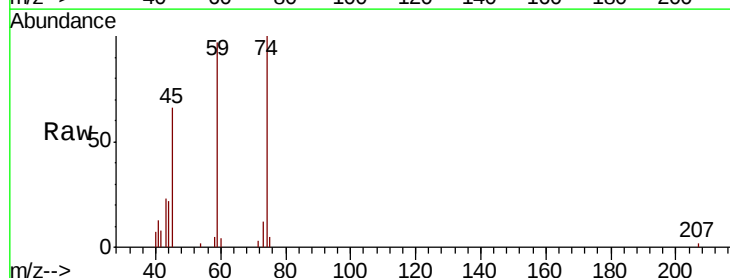
Abundance Ion 100.90 (100.60 to 101.60): V
Ion 102.80 (102.50 to 103.50): V



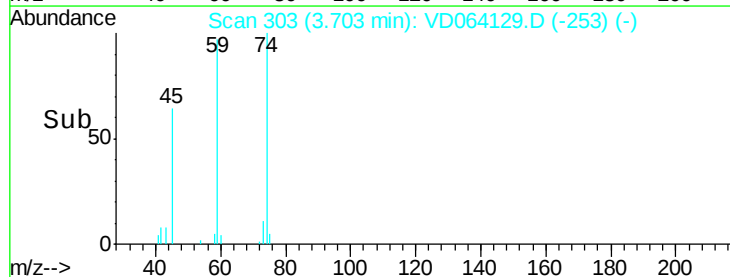
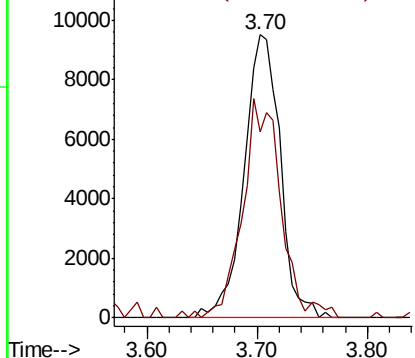
#8

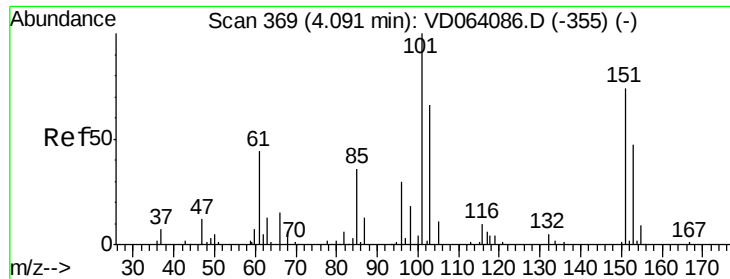
Diethyl Ether
Concen: 21.613 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 74 Resp: 21847
Ion Ratio Lower Upper
74 100
45 81.9 44.1 132.3



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.816 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

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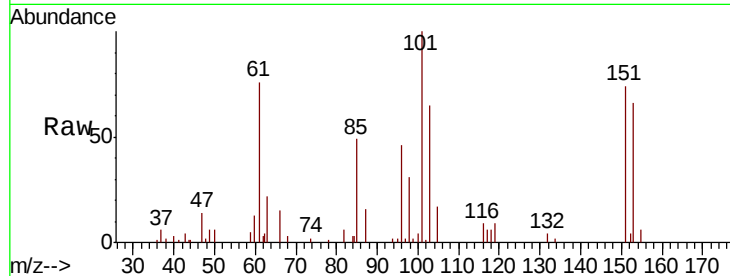
Tot Ion:101 Resp: 43624

Ion Ratio Lower Upper

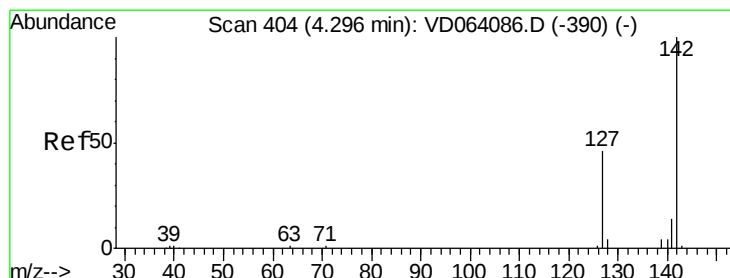
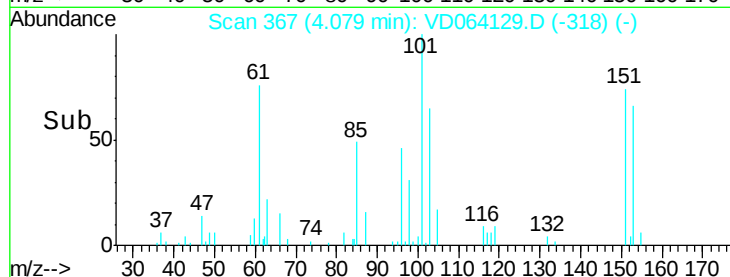
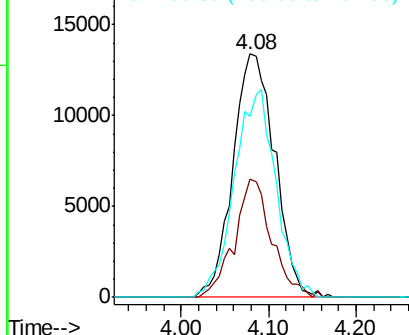
101 100

85 43.1 35.3 52.9

151 84.7 67.0 100.6



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VDC
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.349 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

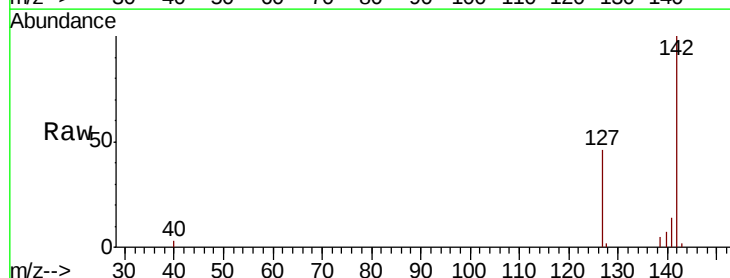
Tgt Ion:142 Resp: 50239

Ion Ratio Lower Upper

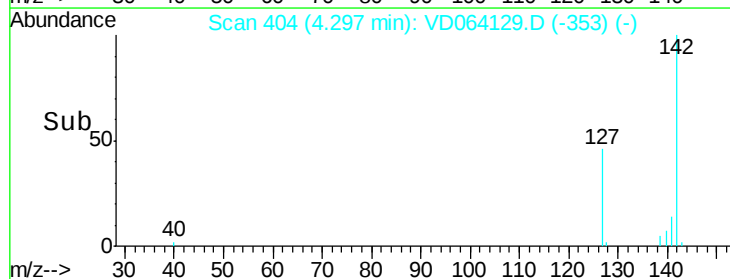
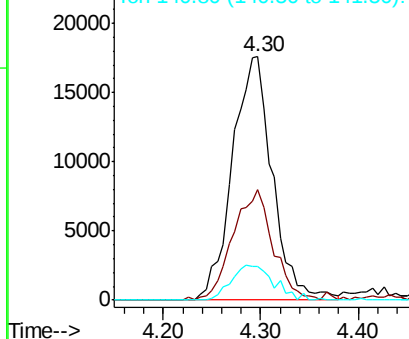
142 100

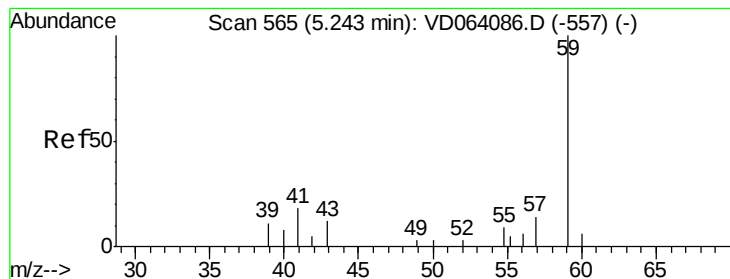
127 45.4 35.1 52.7

141 15.1 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



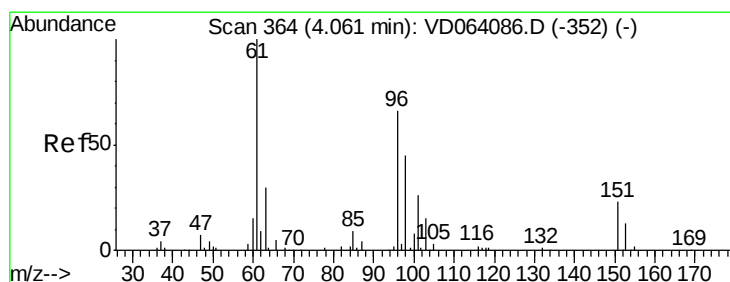
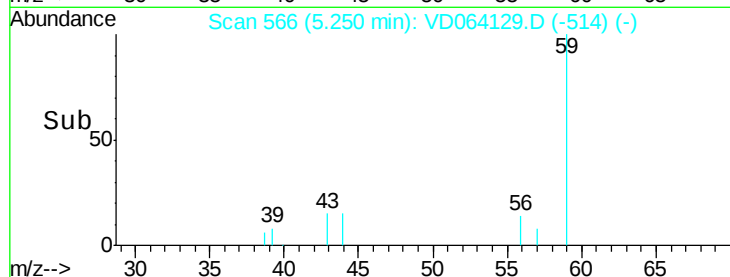
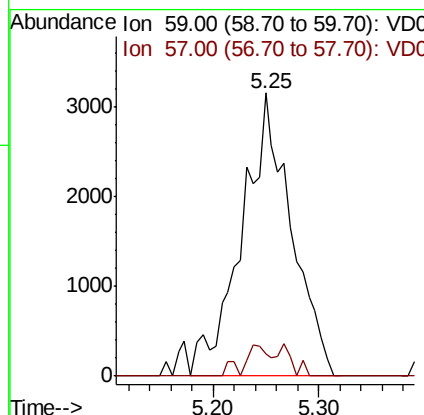
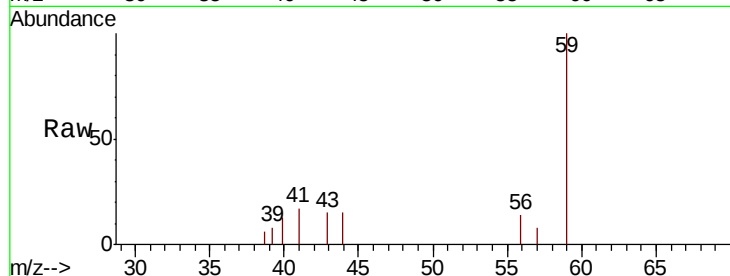


#11

Tert butyl alcohol
 Concen: 102.123 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Instrument :
 MSVOA_D
 ClientSampleId :

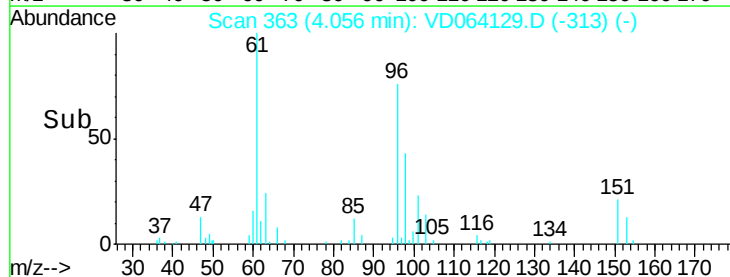
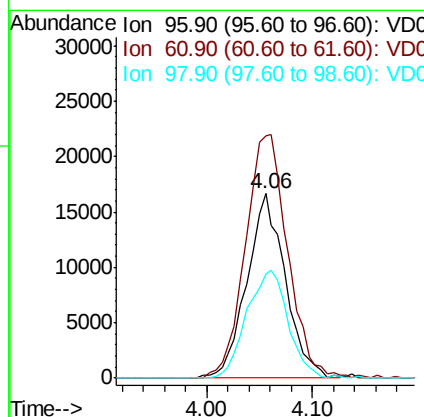
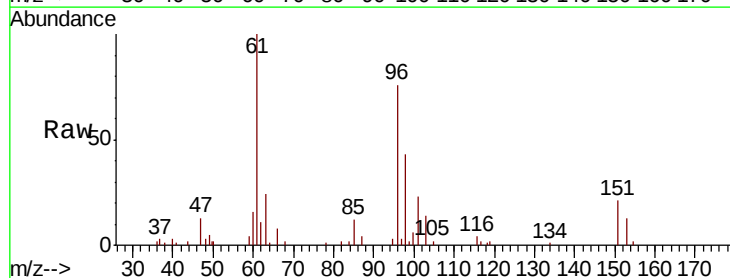
Tot Ion: 59 Resp: 10293
 Ion Ratio Lower Upper
 59 100
 57 4.5 8.7 13.1#

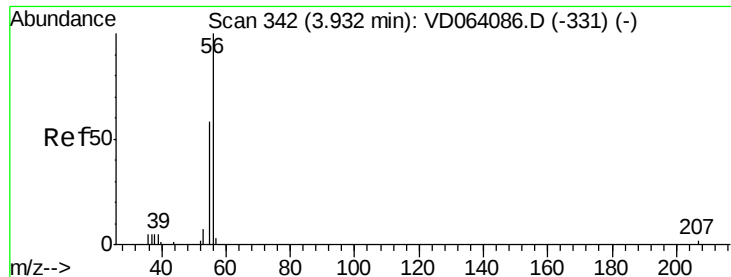


#12

1,1-Dichloroethene
 Concen: 21.161 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion: 96 Resp: 41972
 Ion Ratio Lower Upper
 96 100
 61 131.6 121.8 182.6
 98 56.2 55.4 83.0





#13

Acrolein

Concen: 83.976 ug/l

RT: 3.93 min Scan# 342

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

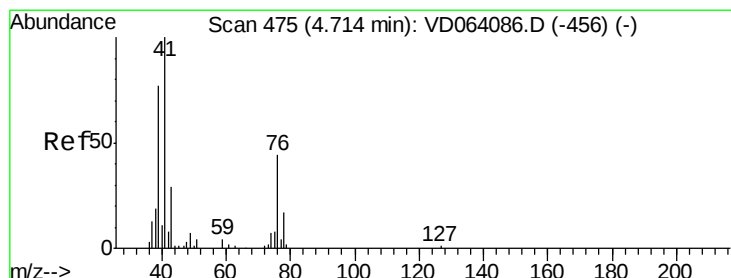
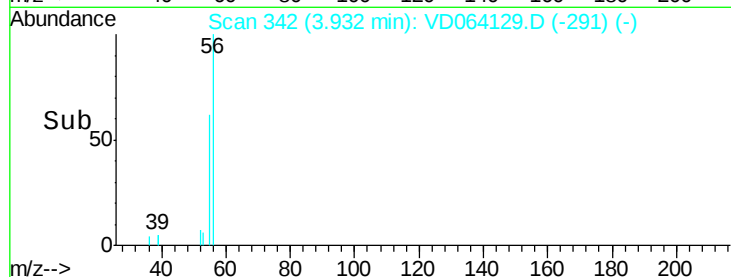
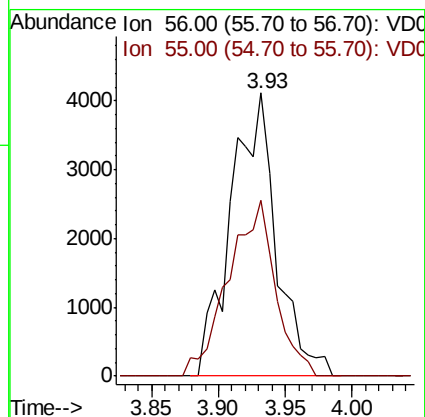
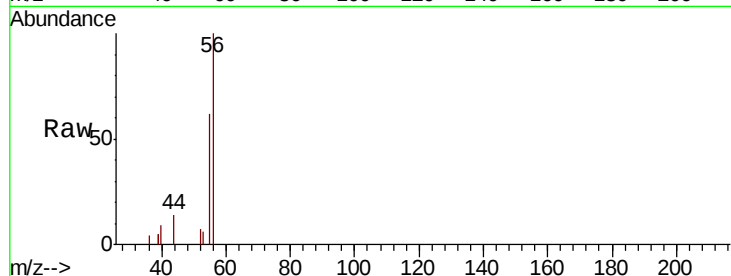
ClientSampleId :

Tot Ion: 56 Resp: 9737

Ion Ratio Lower Upper

56 100

55 64.2 53.8 80.6



#14

Allyl chloride

Concen: 19.998 ug/l

RT: 4.70 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

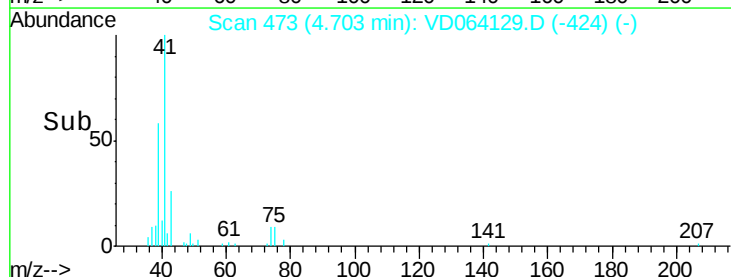
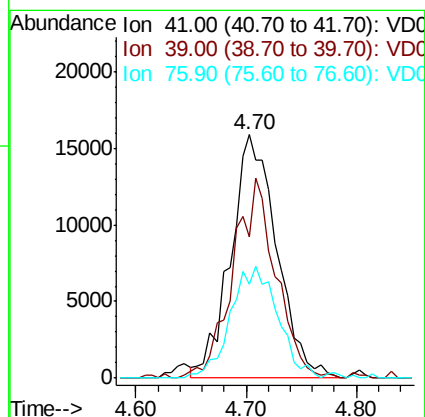
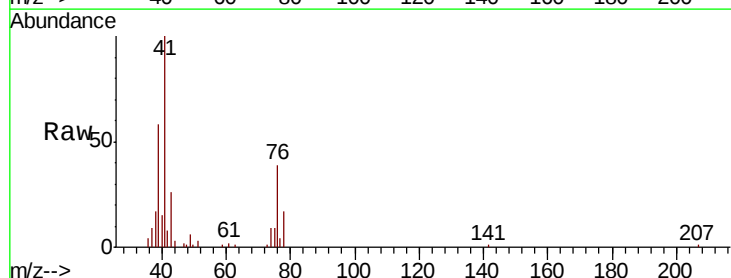
Tgt Ion: 41 Resp: 46424

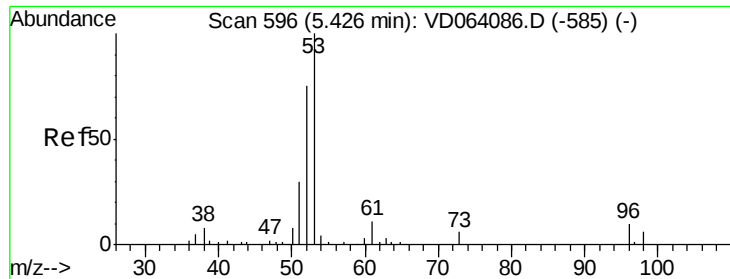
Ion Ratio Lower Upper

41 100

39 76.6 61.5 92.3

76 46.8 36.2 54.4





#15

Acrylonitrile

Concen: 104.861 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampleId :

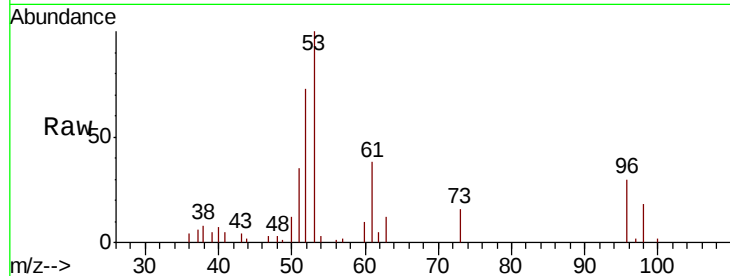
Tot Ion: 53 Resp: 39154

Ion Ratio Lower Upper

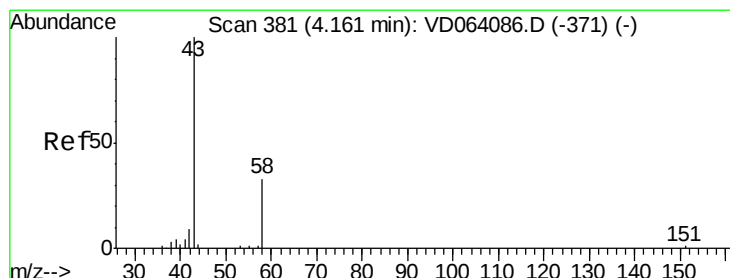
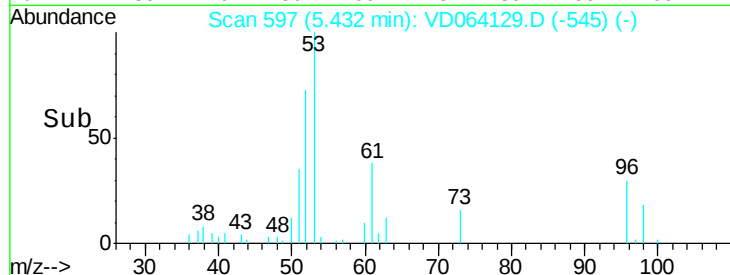
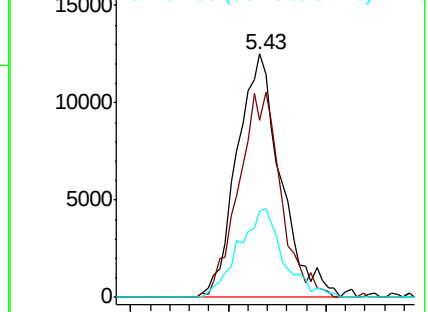
53 100

52 81.7 66.2 99.4

51 37.3 29.0 43.6



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: 96.948 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD064129.D

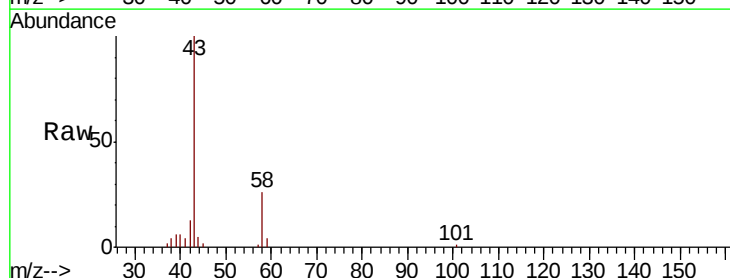
Acq: 31 Oct 2019 13:31

Tgt Ion: 43 Resp: 33544

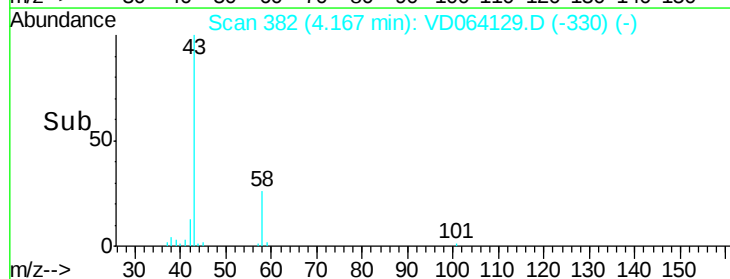
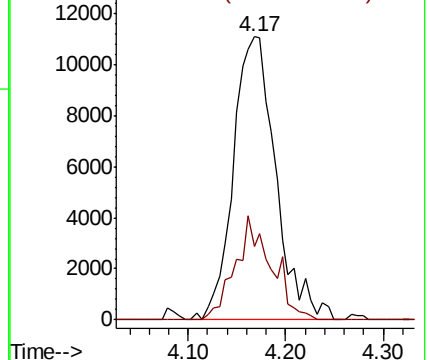
Ion Ratio Lower Upper

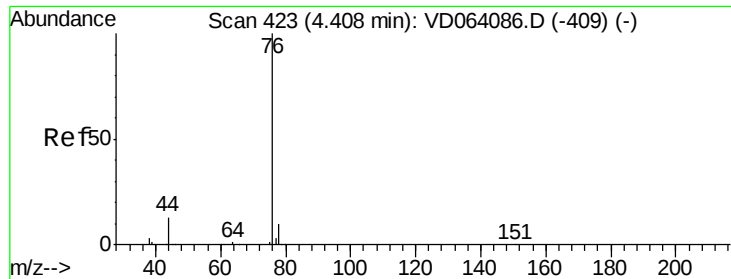
43 100

58 26.0 26.3 39.5#



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

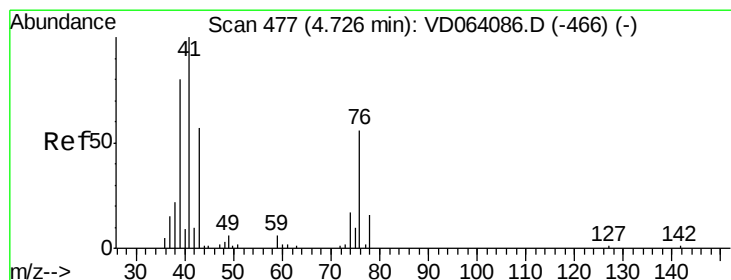
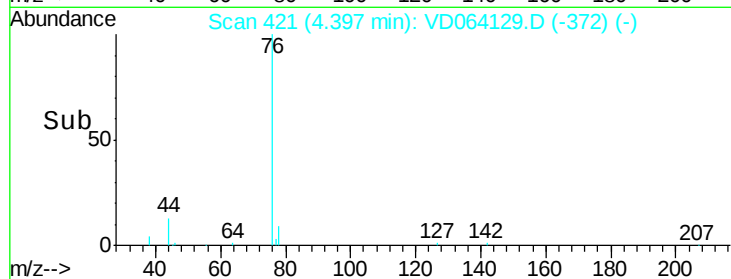
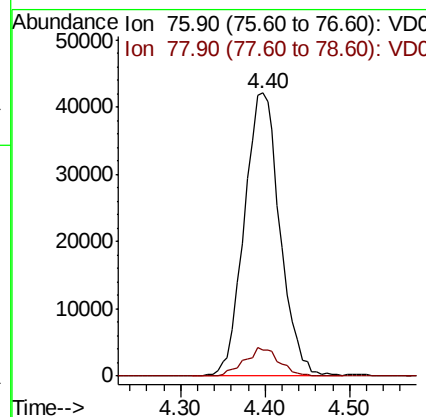
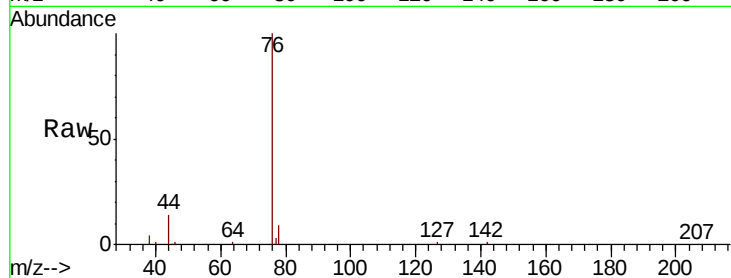




#17
Carbon Disulfide
Concen: 20.252 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

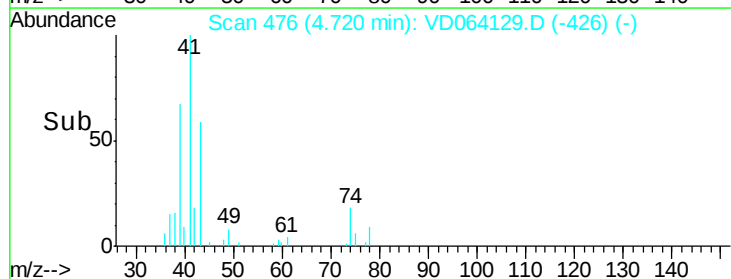
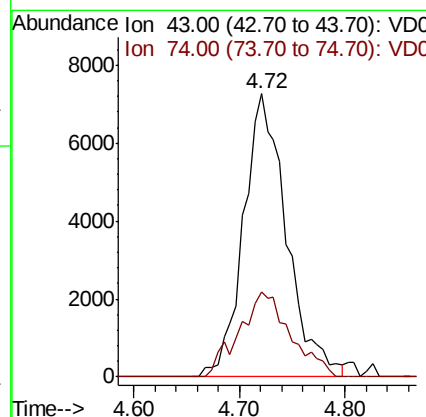
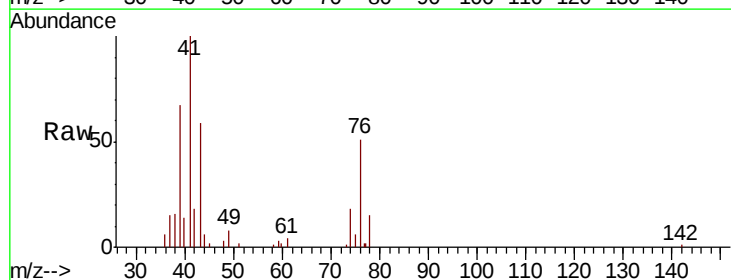
Instrument :
MSVOA_D
ClientSampleId :

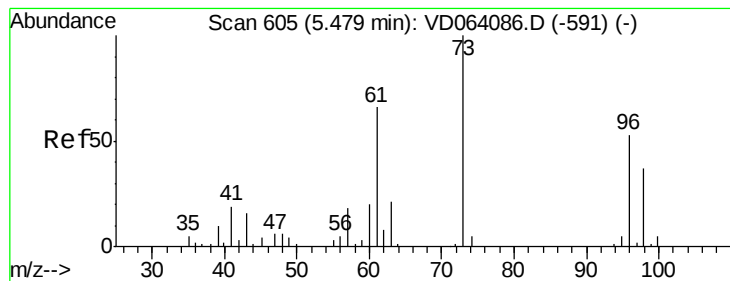
Tot Ion: 76 Resp: 123439
Ion Ratio Lower Upper
76 100
78 9.3 8.1 12.1



#18
Methyl Acetate
Concen: 22.350 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 43 Resp: 20570
Ion Ratio Lower Upper
43 100
74 35.9 22.2 33.4#



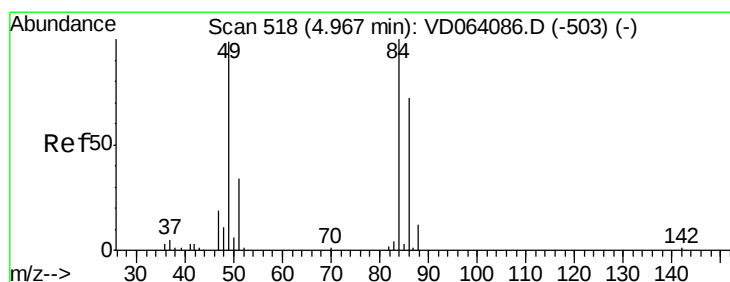
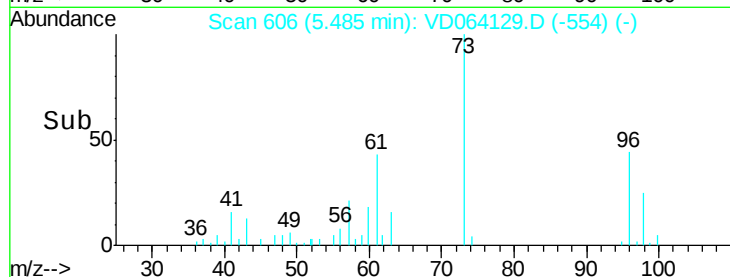
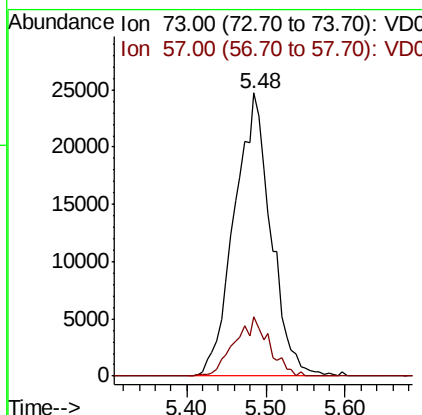
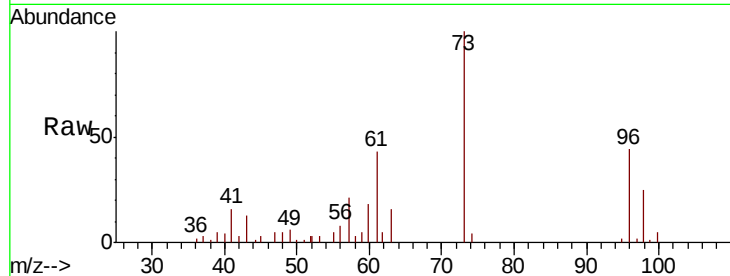


#19

Methyl tert-butyl Ether
 Concen: 19.667 ug/l
 RT: 5.48 min Scan# 606
 Delta R.T. 0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Instrument :
 MSVOA_D
 ClientSampled :

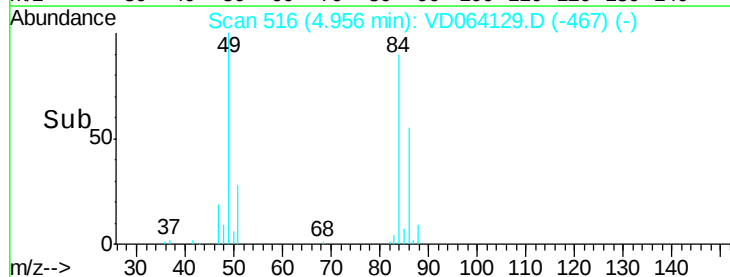
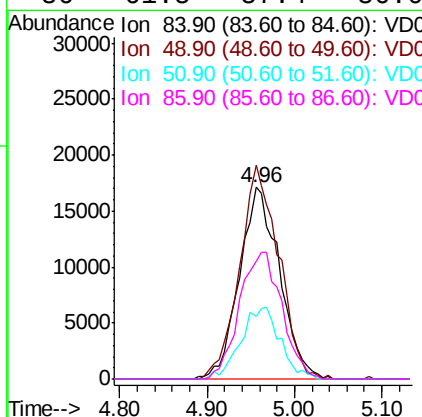
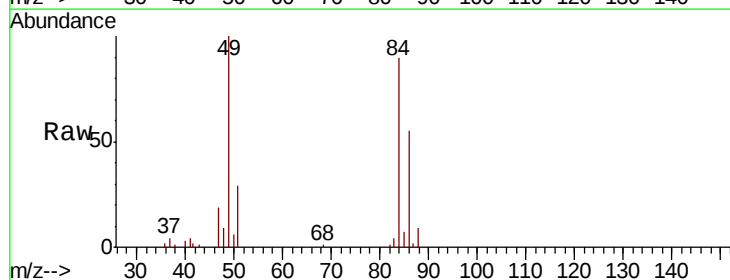
Tot Ion: 73 Resp: 79155
 Ion Ratio Lower Upper
 73 100
 57 20.8 14.3 21.5

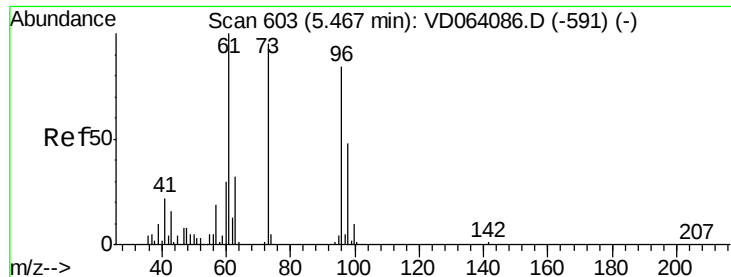


#20

Methylene Chloride
 Concen: 21.839 ug/l
 RT: 4.96 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion: 84 Resp: 53348
 Ion Ratio Lower Upper
 84 100
 49 111.3 79.4 119.0
 51 32.8 27.4 41.2
 86 61.5 57.4 86.0





#21

trans-1,2-Dichloroethene

Concen: 21.134 ug/l

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampleId :

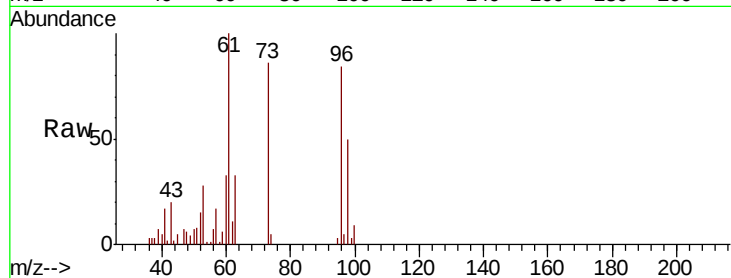
Tot Ion: 96 Resp: 47056

Ion Ratio Lower Upper

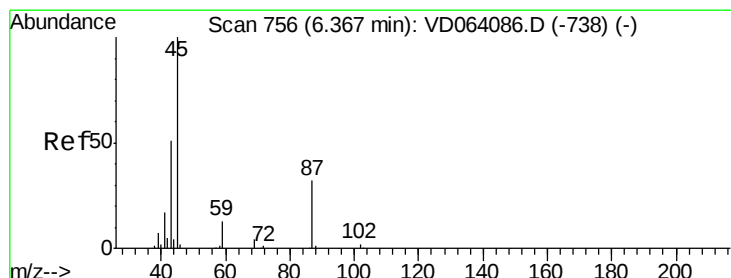
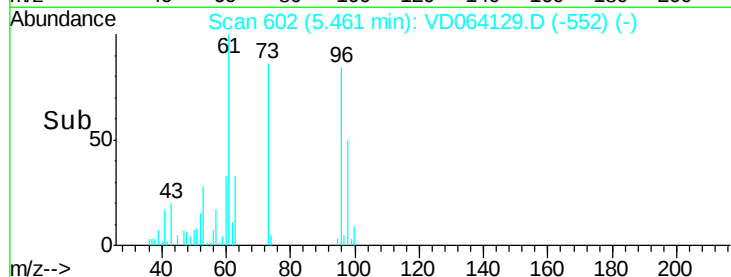
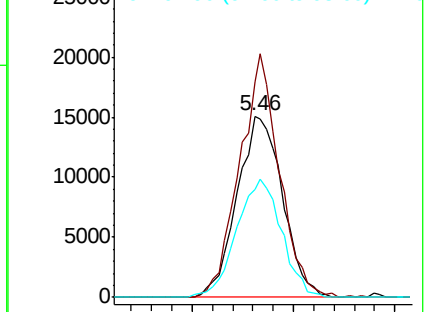
96 100

61 119.0 95.0 142.6

98 59.8 45.8 68.8



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



#22

Diisopropyl ether

Concen: 19.247 ug/l

RT: 6.37 min Scan# 756

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Tgt Ion: 45 Resp: 98957

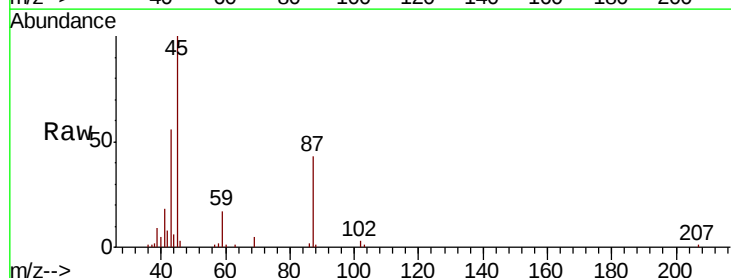
Ion Ratio Lower Upper

45 100

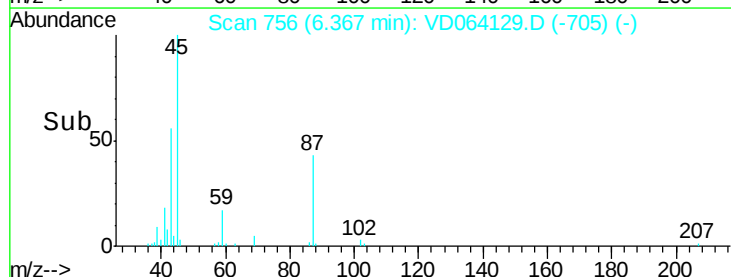
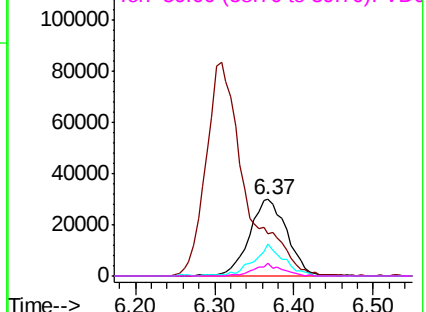
43 55.0 44.3 66.5

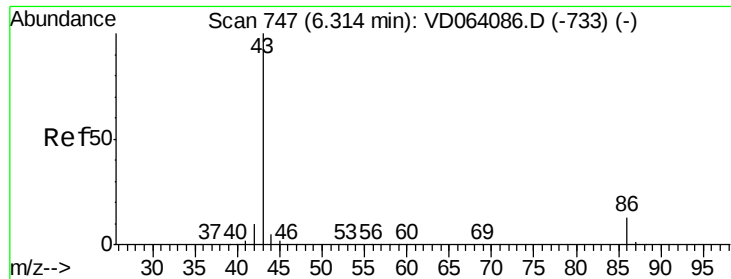
87 42.7 26.6 39.8#

59 16.7 10.2 15.2#



Abundance Ion 45.00 (44.70 to 45.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 101.553 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

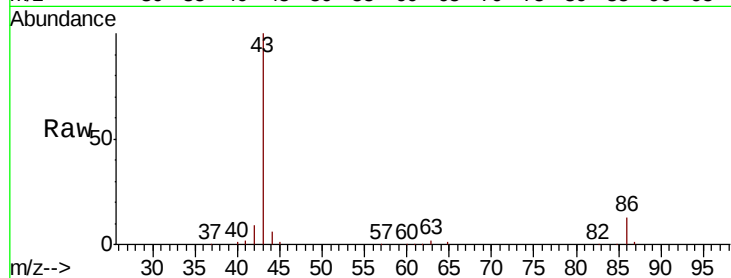
ClientSampleId :

Tot Ion: 43 Resp: 286198

Ion Ratio Lower Upper

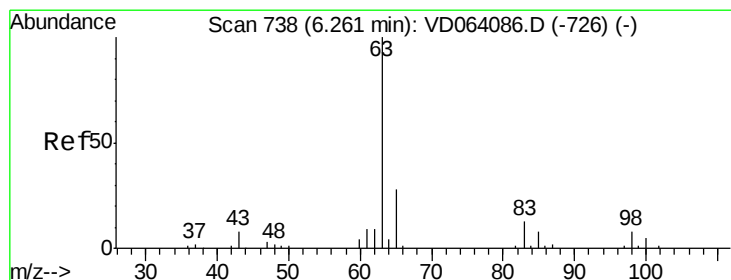
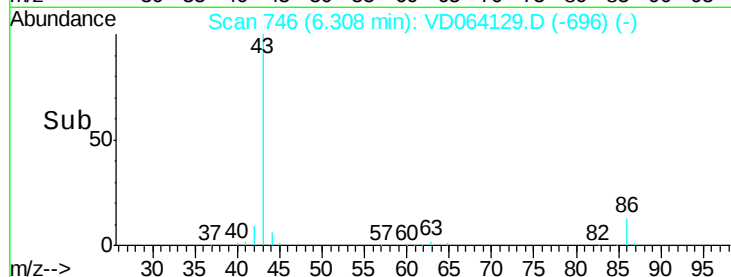
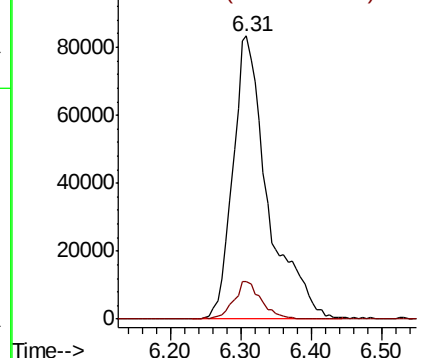
43 100

86 13.4 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 19.843 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

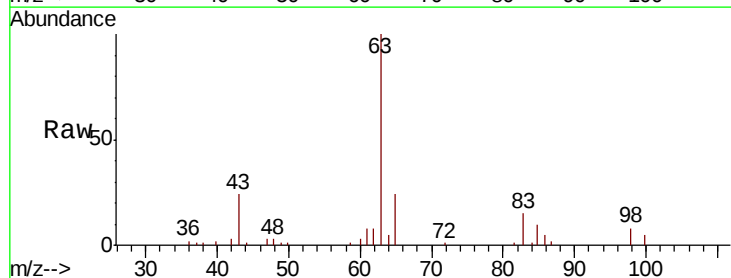
Tgt Ion: 63 Resp: 68891

Ion Ratio Lower Upper

63 100

98 8.1 4.0 11.9

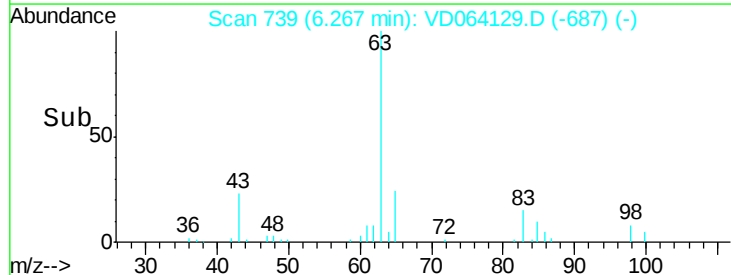
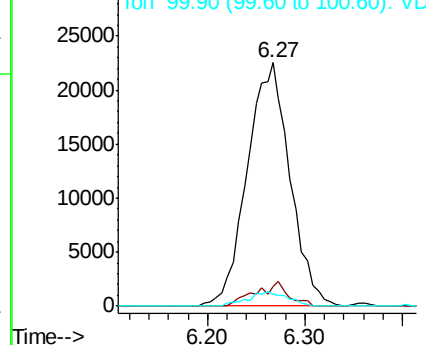
100 4.9 2.6 7.8

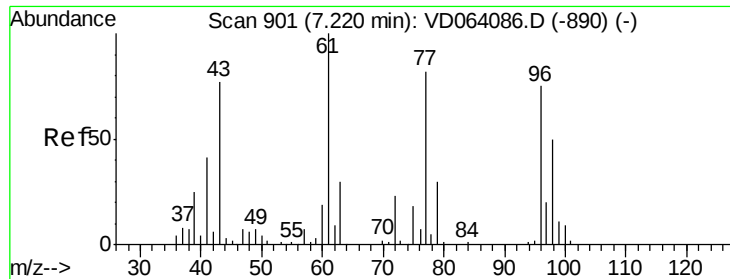


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

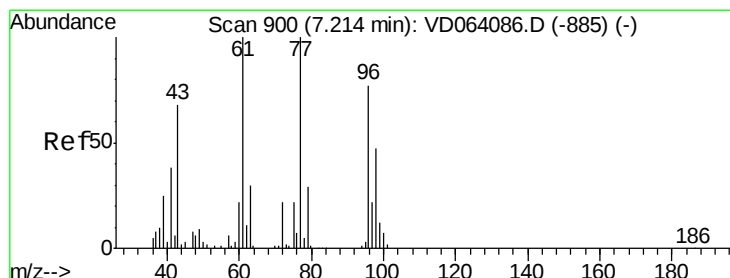
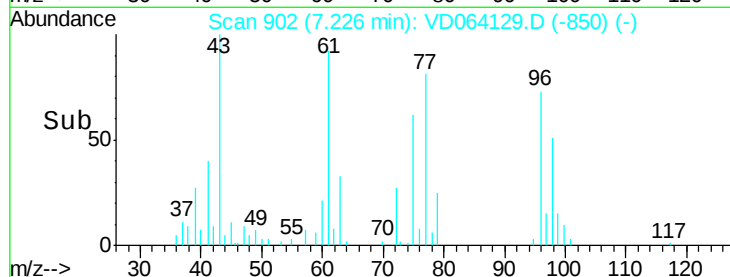
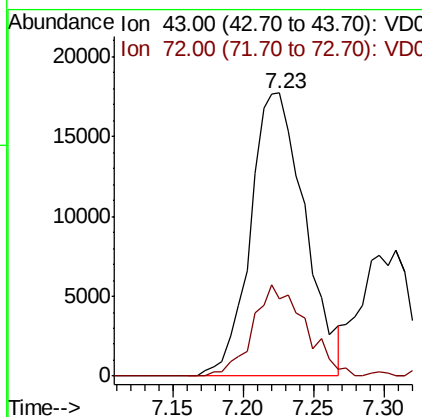
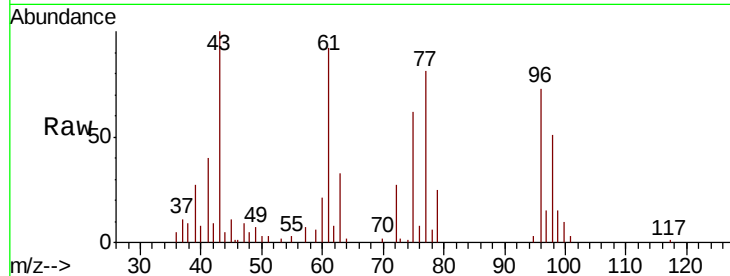




#25
 2-Butanone
 Concen: 100.357 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

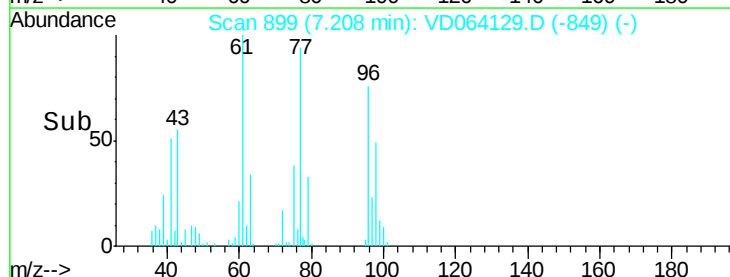
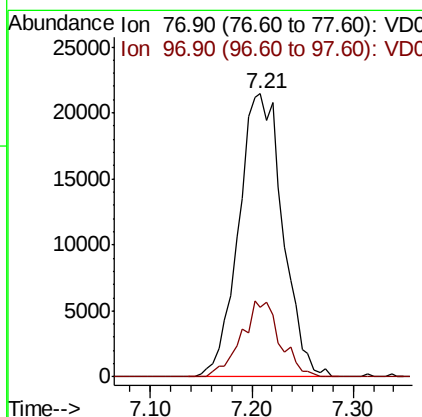
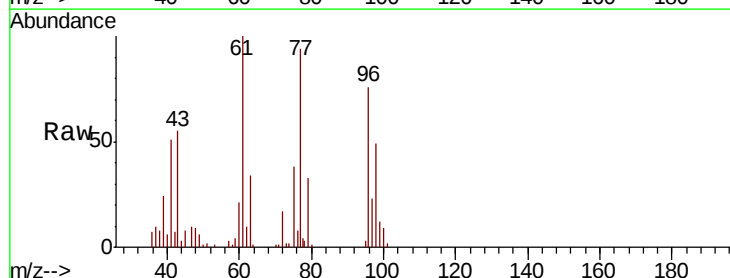
Instrument :
 MSVOA_D
 ClientSampleID :

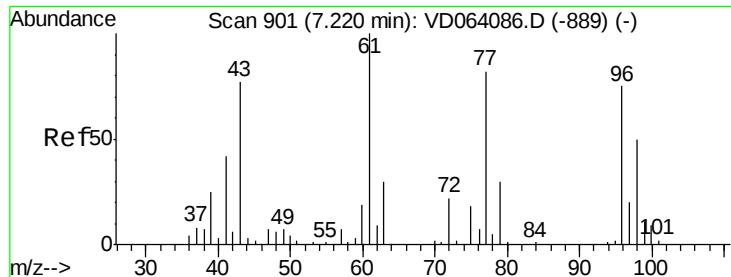
Tot Ion: 43 Resp: 48004
 Ion Ratio Lower Upper
 43 100
 72 27.4 23.4 35.0



#26
 2,2-Dichloropropane
 Concen: 19.674 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion: 77 Resp: 64831
 Ion Ratio Lower Upper
 77 100
 97 23.6 11.2 33.5



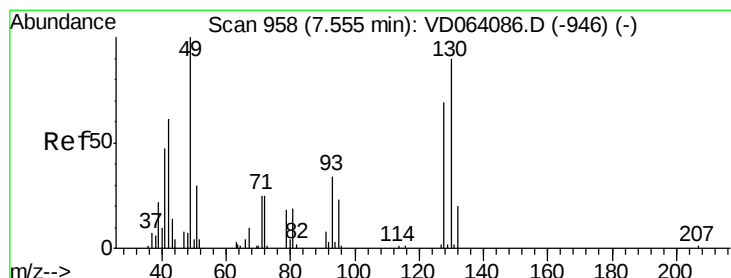
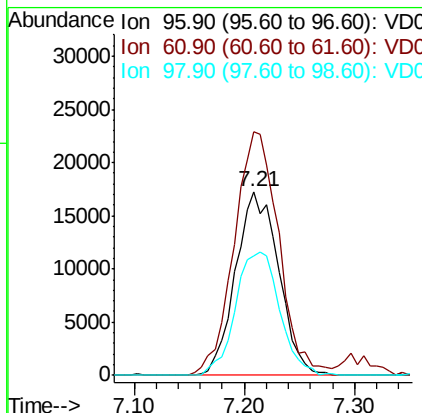
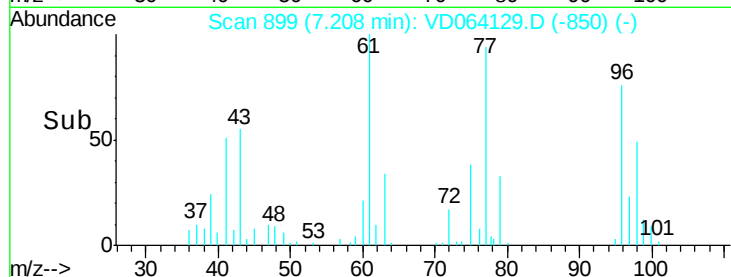
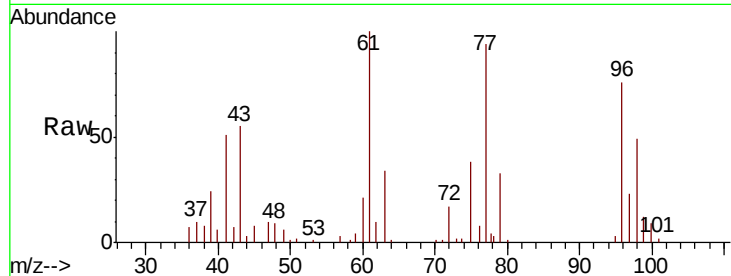


#27

cis-1,2-Dichloroethene
Concen: 19.014 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Instrument :
MSVOA_D
ClientSampleId :

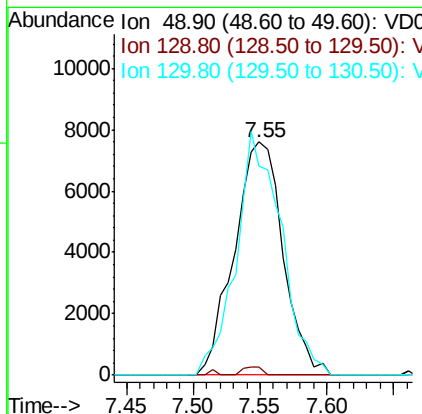
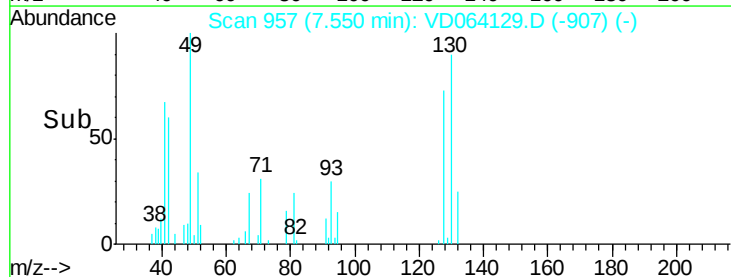
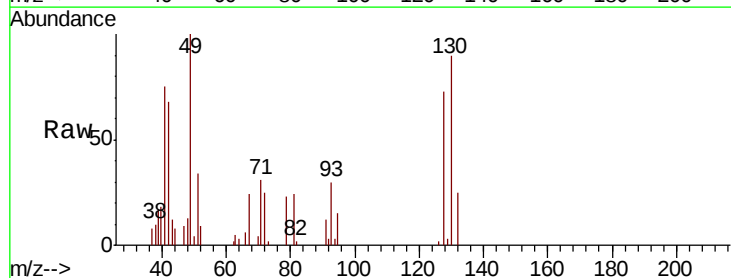
Tot Ion: 96 Resp: 47372
Ion Ratio Lower Upper
96 100
61 137.0 0.0 258.0
98 68.5 0.0 130.8

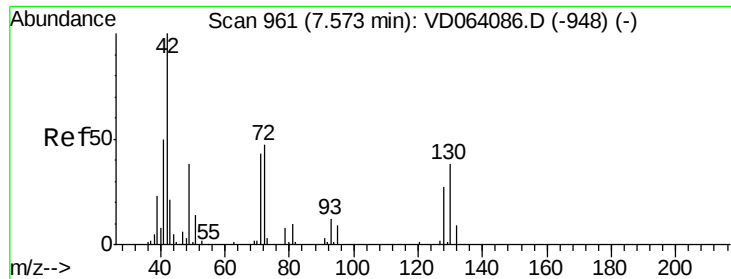


#28

Bromochloromethane
Concen: 15.858 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 49 Resp: 19283
Ion Ratio Lower Upper
49 100
129 1.4 0.0 5.4
130 95.8 75.3 112.9

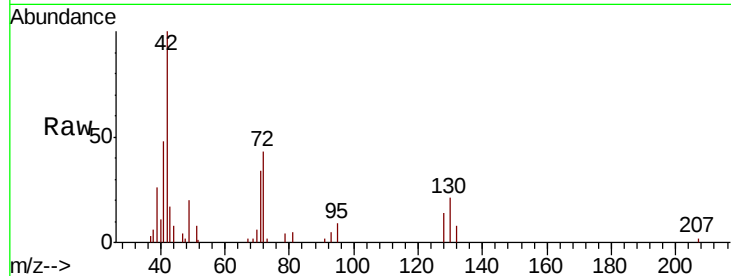




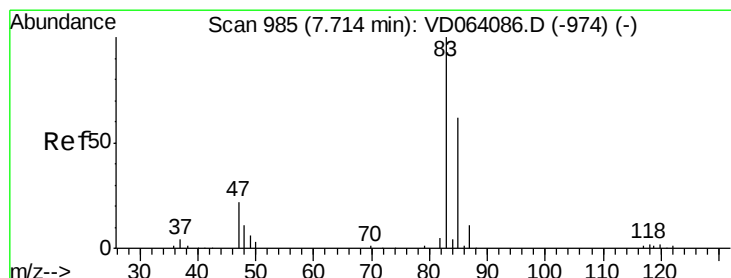
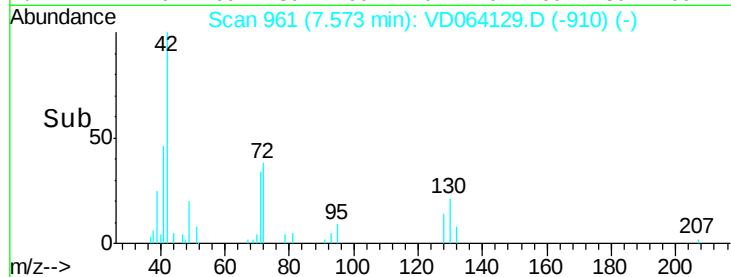
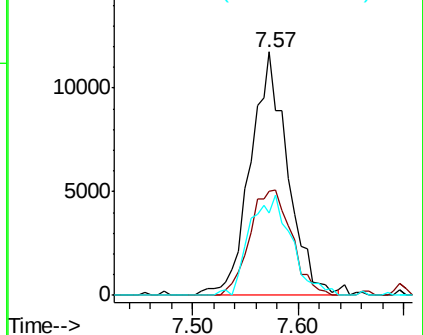
#29
Tetrahydrofuran
Concen: 103.140 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 42 Resp: 28793
Ion Ratio Lower Upper
42 100
72 48.4 38.9 58.3
71 45.5 35.4 53.2

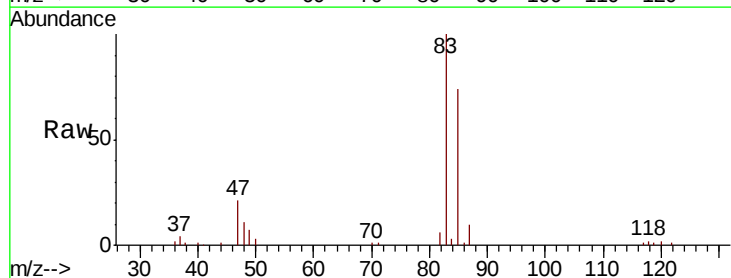


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

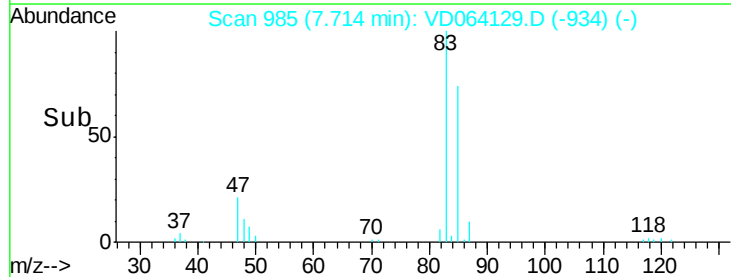
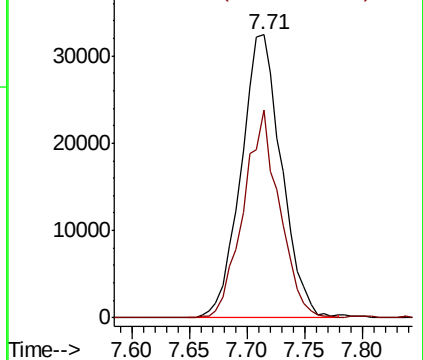


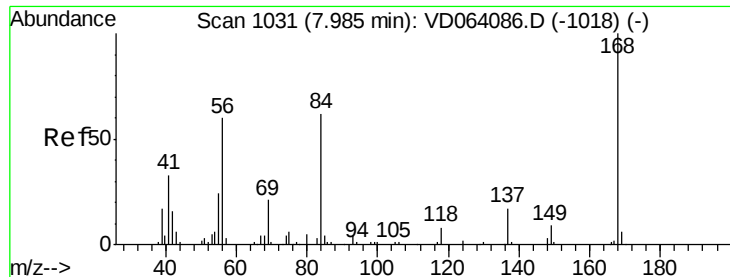
#30
Chloroform
Concen: 19.896 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 83 Resp: 79041
Ion Ratio Lower Upper
83 100
85 73.5 49.8 74.6



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





#31

Cyclohexane

Concen: 18.920 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

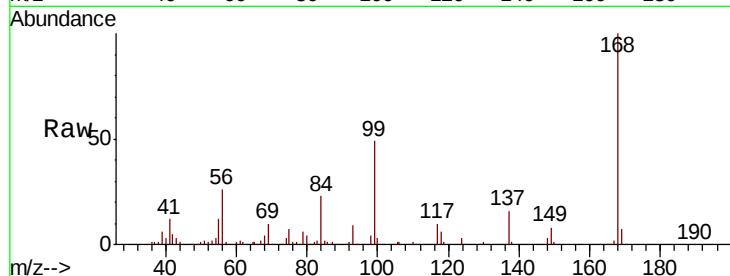
Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

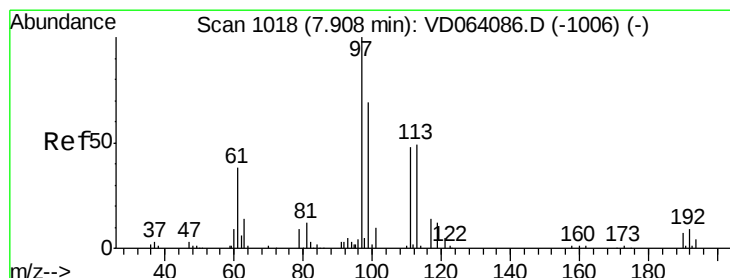
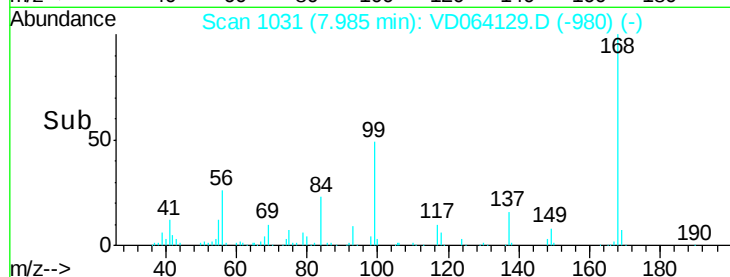
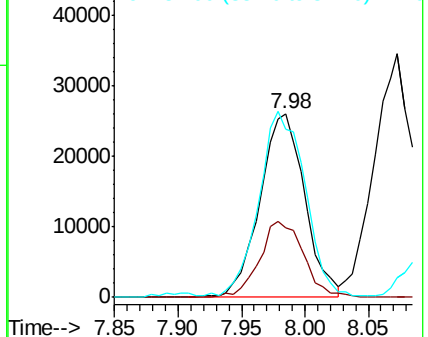
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 63996

Ion	Ratio	Lower	Upper
56	100		
69	37.6	27.7	41.5
84	89.1	83.1	124.7



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: 20.416 ug/l

RT: 7.90 min Scan# 1017

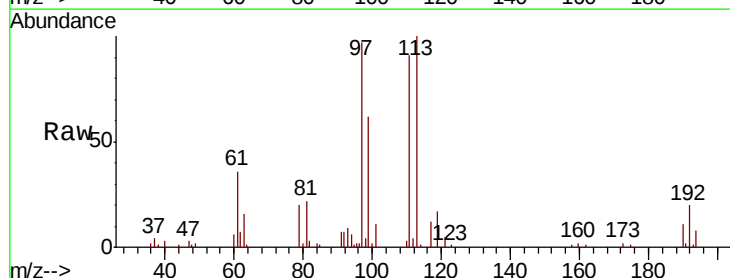
Delta R.T. -0.01 min

Lab File: VD064129.D

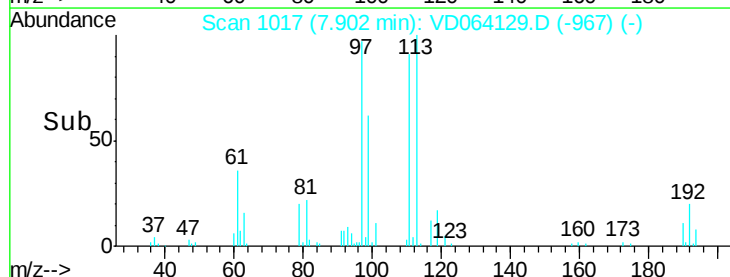
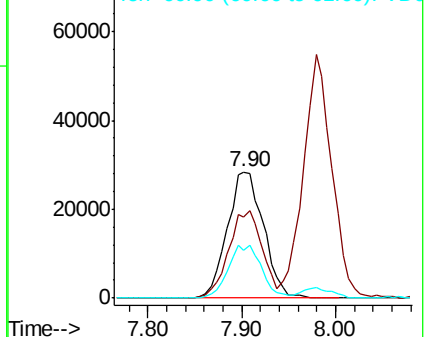
Acq: 31 Oct 2019 13:31

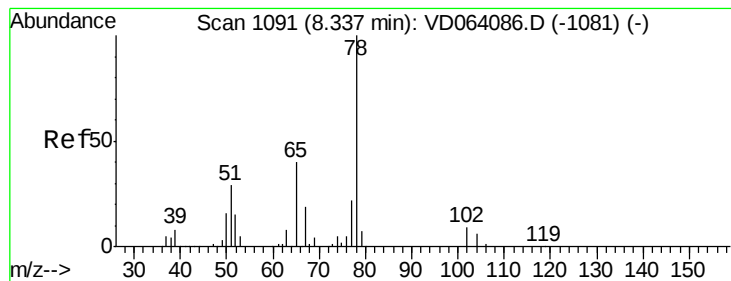
Tgt Ion: 97 Resp: 75499

Ion	Ratio	Lower	Upper
97	100		
99	64.3	53.7	80.5
61	39.4	31.8	47.6



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: 50.996 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

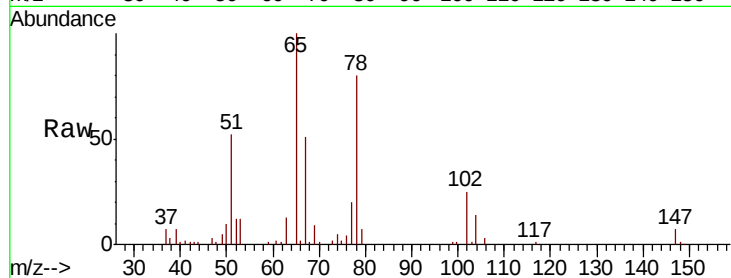
ClientSampleId :

Tot Ion: 65 Resp: 92736

Ion Ratio Lower Upper

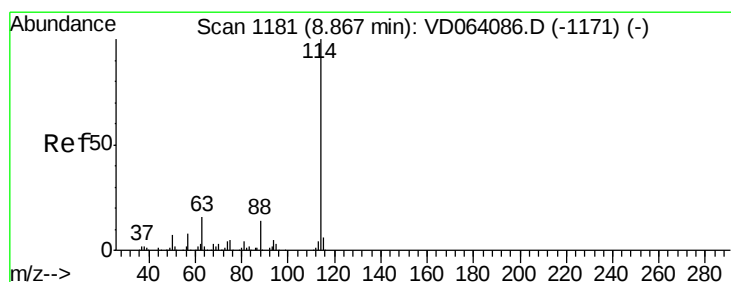
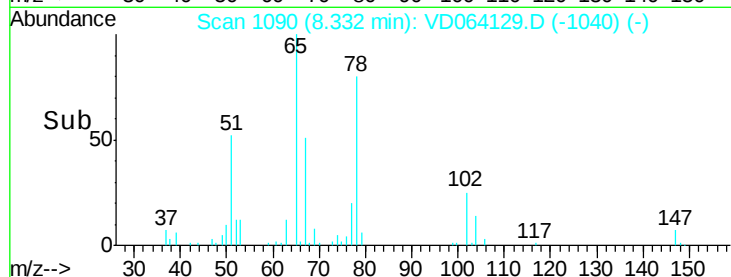
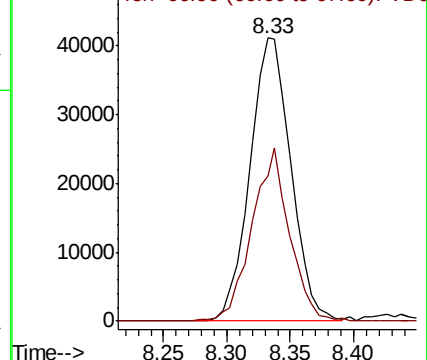
65 100

67 55.9 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

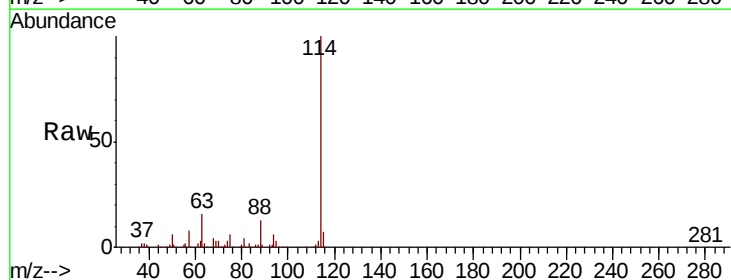
Tgt Ion: 114 Resp: 336303

Ion Ratio Lower Upper

114 100

63 16.4 0.0 32.8

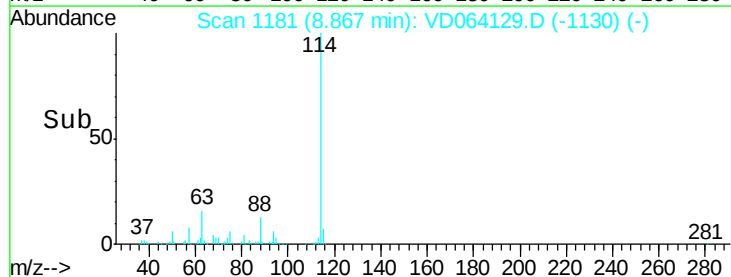
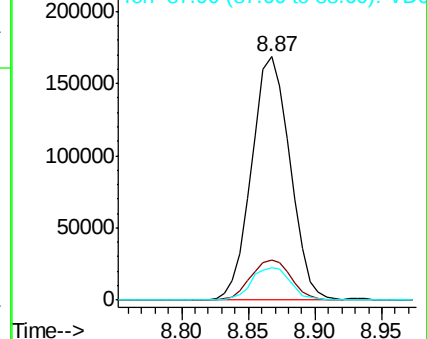
88 13.2 0.0 27.6

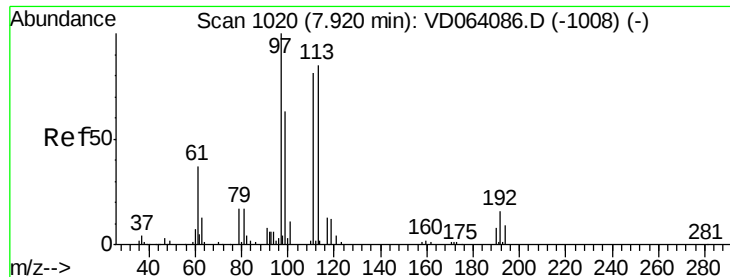


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

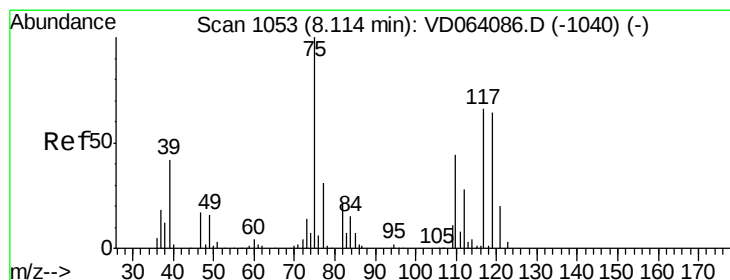
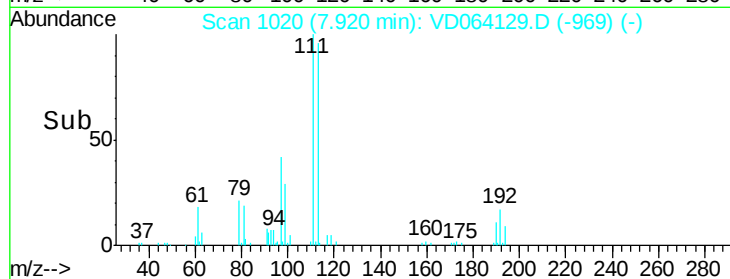
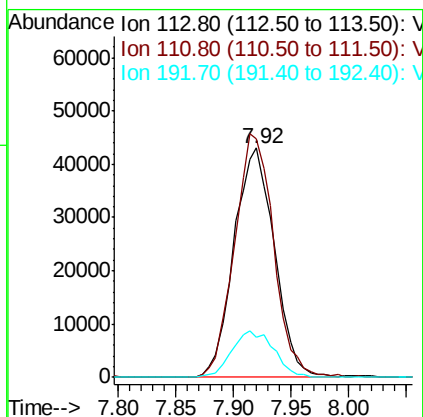
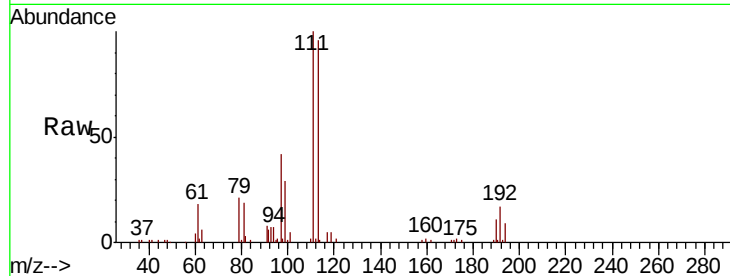




#35
 Dibromofluoromethane
 Concen: 50.693 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

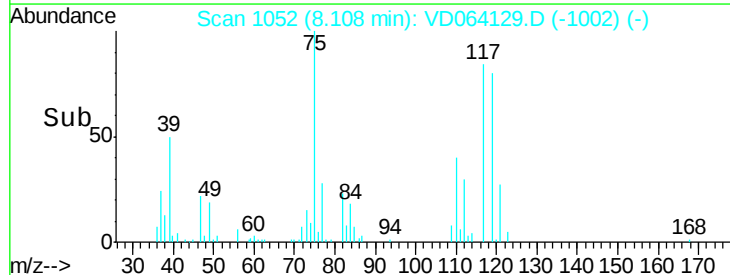
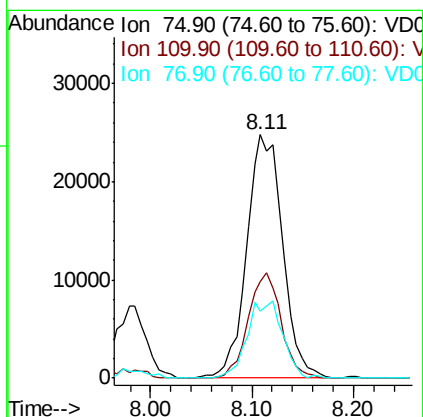
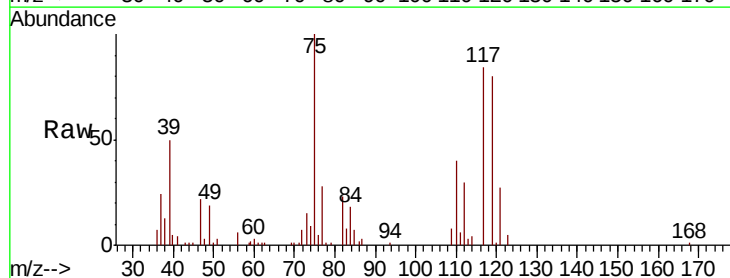
Instrument :
 MSVOA_D
 ClientSampleId :

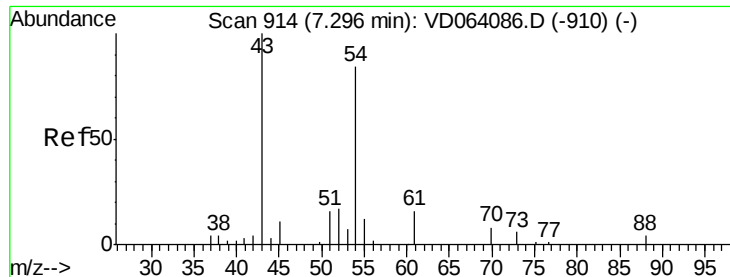
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	79.3	118.9
192	21.0	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 19.286 ug/l
 RT: 8.11 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	39.6	20.0	59.9
77	31.1	24.7	37.1





#37

Ethyl Acetate

Concen: 23.140 ug/l

RT: 7.31 min Scan# 916

Delta R.T. 0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampleId :

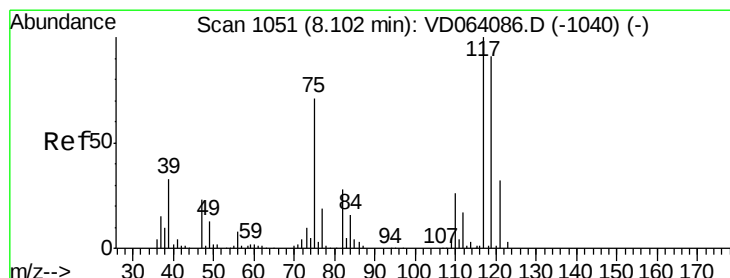
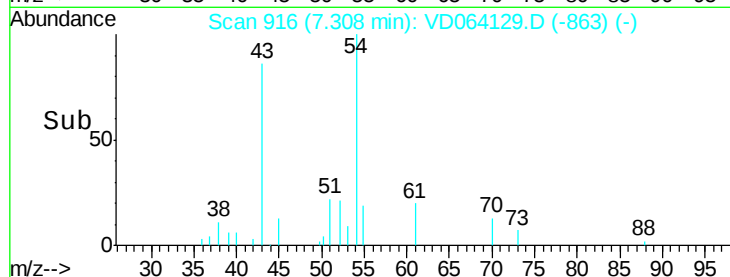
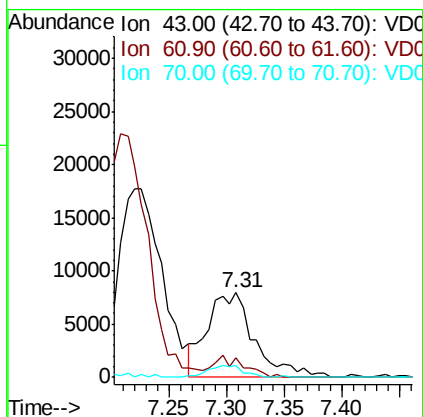
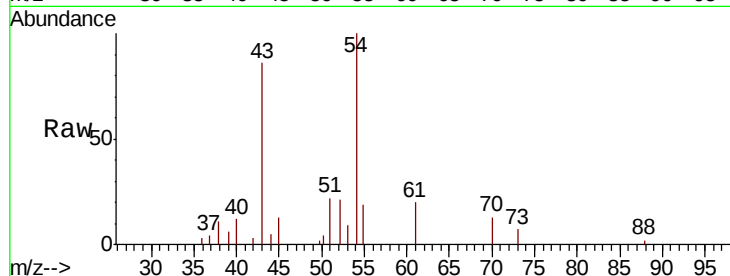
Tot Ion: 43 Resp: 22445

Ion Ratio Lower Upper

43 100

61 16.1 12.0 18.0

70 10.7 3.8 5.6#



#38

Carbon Tetrachloride

Concen: 19.573 ug/l

RT: 8.10 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

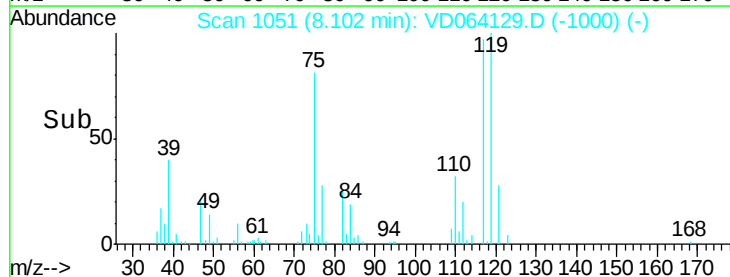
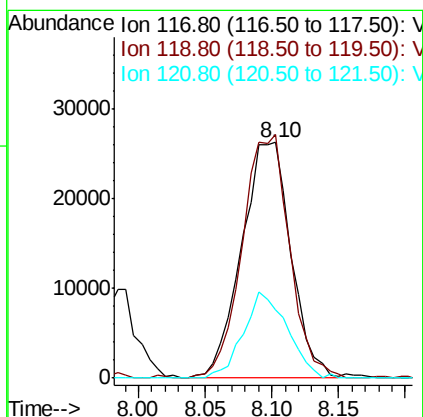
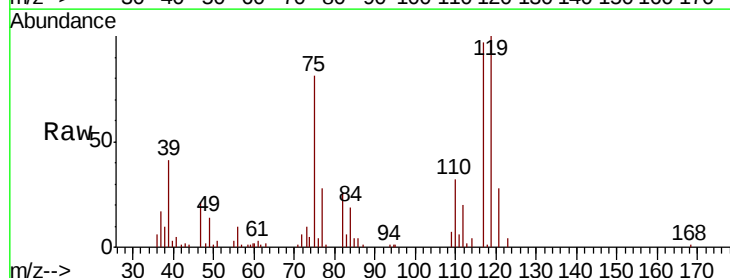
Tgt Ion: 117 Resp: 67295

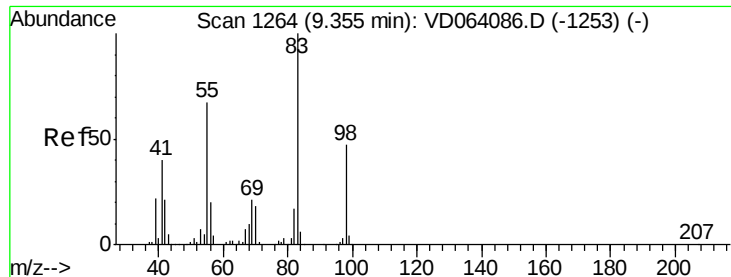
Ion Ratio Lower Upper

117 100

119 103.4 72.6 108.8

121 29.2 25.8 38.6

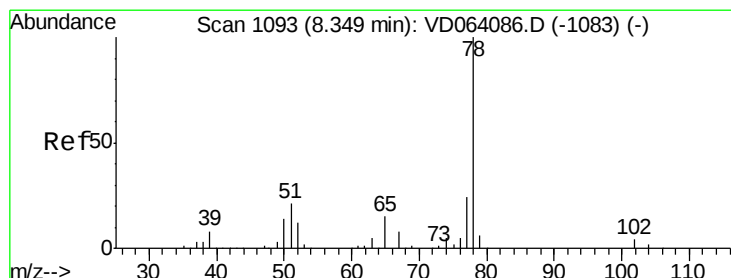
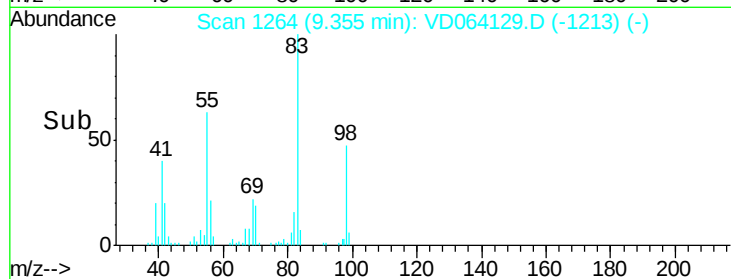
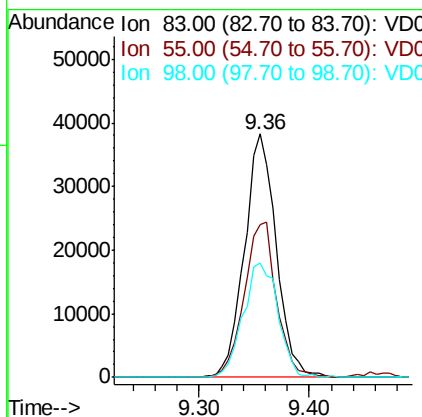
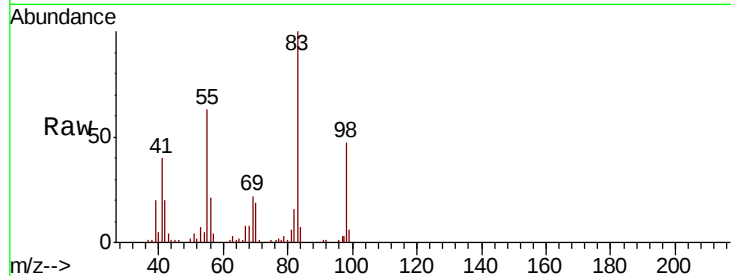




#39
Methvlcvclohexane
Concen: 20.046 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

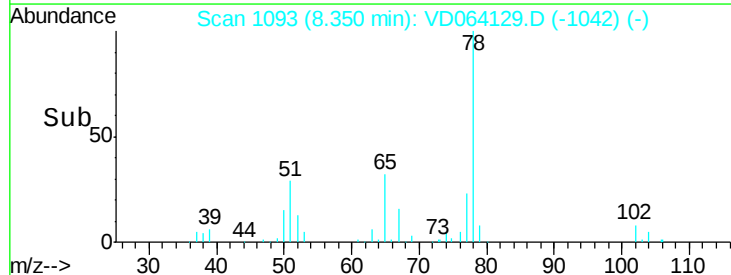
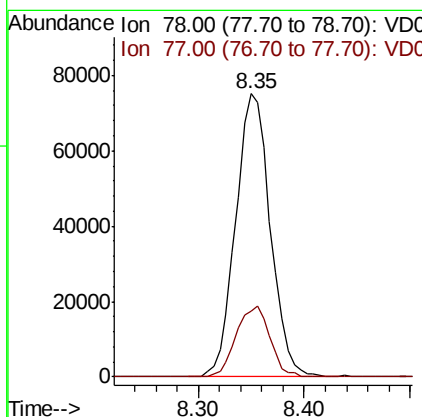
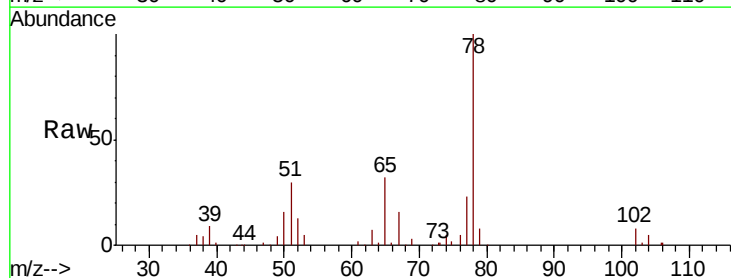
Instrument :
MSVOA_D
ClientSampleId :

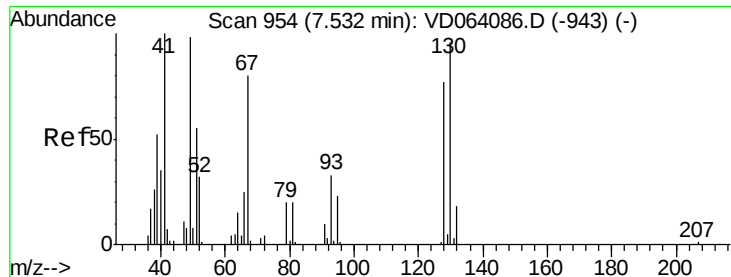
Tot Ion: 83 Resp: 77546
Ion Ratio Lower Upper
83 100
55 62.9 53.4 80.0
98 47.2 37.8 56.6



#40
Benzene
Concen: 19.884 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 78 Resp: 170870
Ion Ratio Lower Upper
78 100
77 23.4 19.0 28.4





#41

Methacrylonitrile

Concen: 25.306 ug/l

RT: 7.55 min Scan# 957

Delta R.T. 0.02 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 41 Resp: 14165

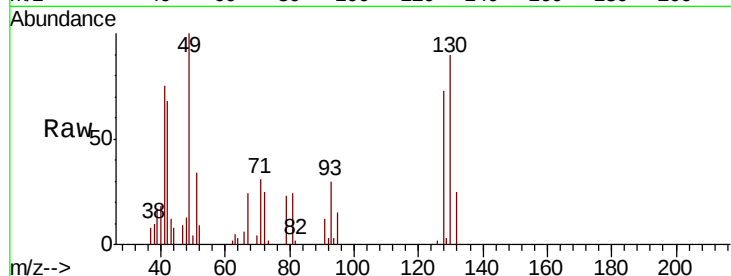
Ion Ratio Lower Upper

41 100

39 0.0 41.0 61.4#

67 0.0 73.4 110.0#

52 0.0 27.3 40.9#

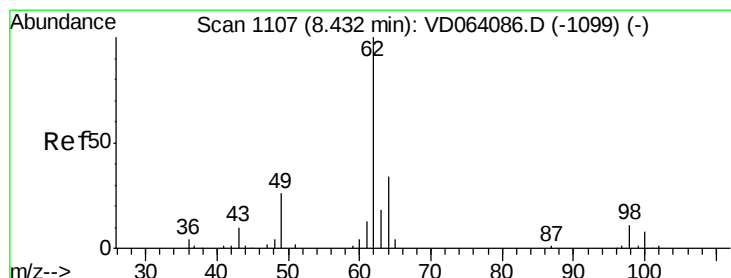
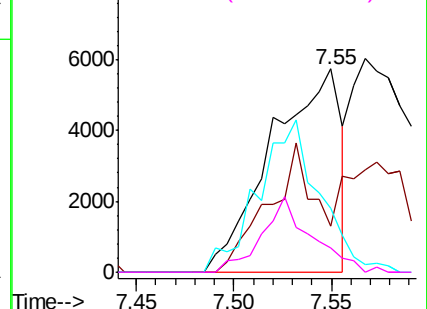
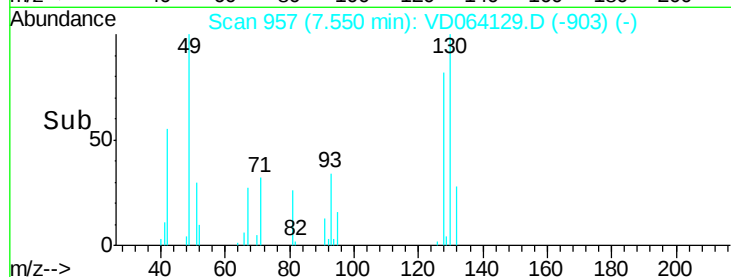


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 20.178 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD064129.D

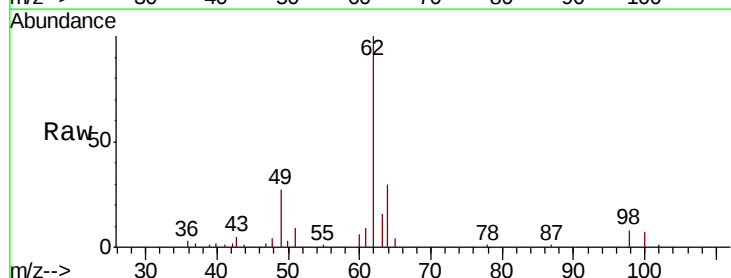
Acq: 31 Oct 2019 13:31

Tgt Ion: 62 Resp: 45803

Ion Ratio Lower Upper

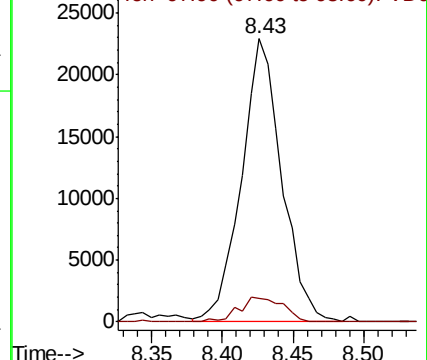
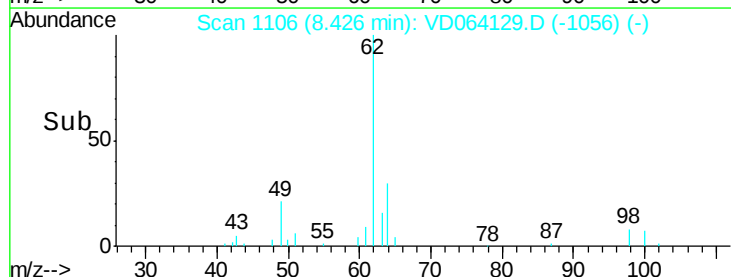
62 100

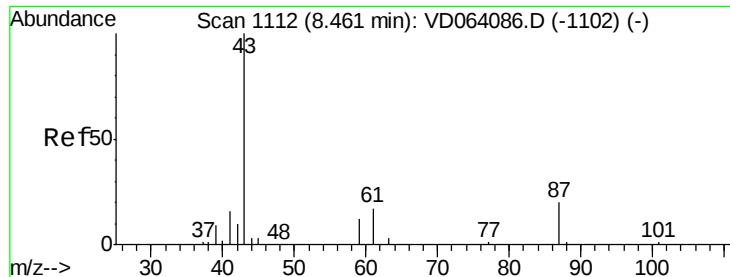
98 9.6 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 19.116 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampleId :

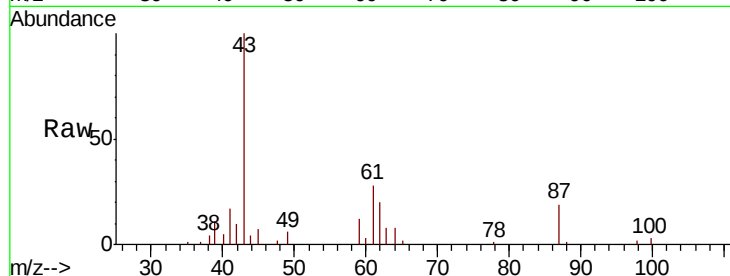
Tot Ion: 43 Resp: 37472

Ion Ratio Lower Upper

43 100

61 32.9 25.8 38.8

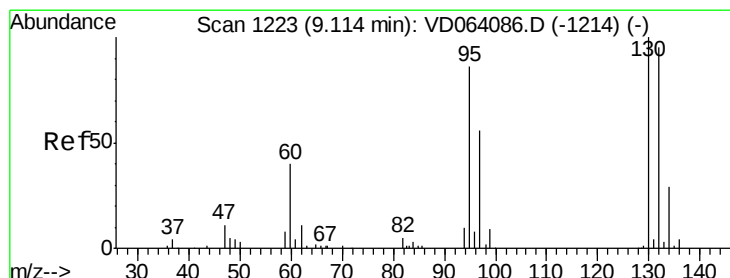
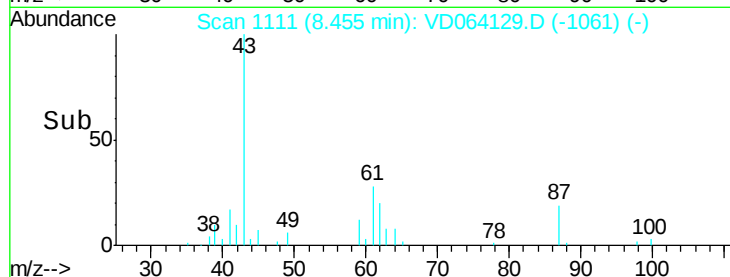
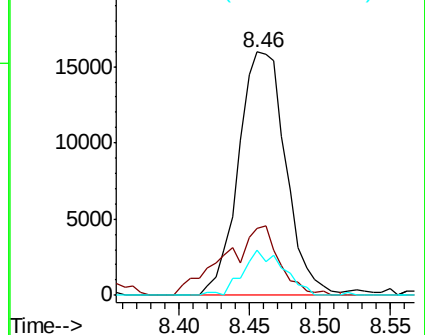
87 16.1 13.0 19.4



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: 20.961 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD064129.D

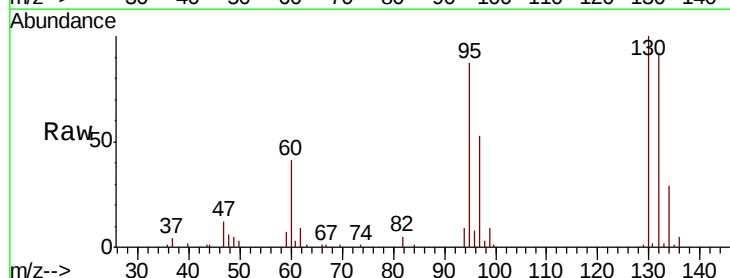
Acq: 31 Oct 2019 13:31

Tgt Ion:130 Resp: 54594

Ion Ratio Lower Upper

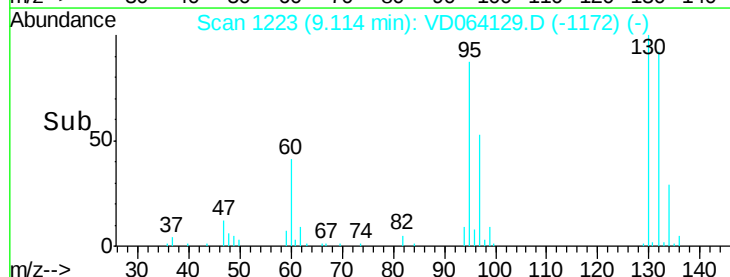
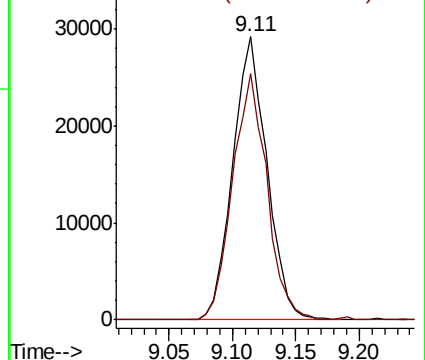
130 100

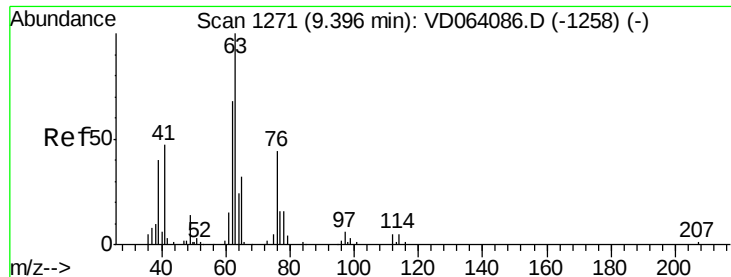
95 86.9 0.0 173.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.405 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

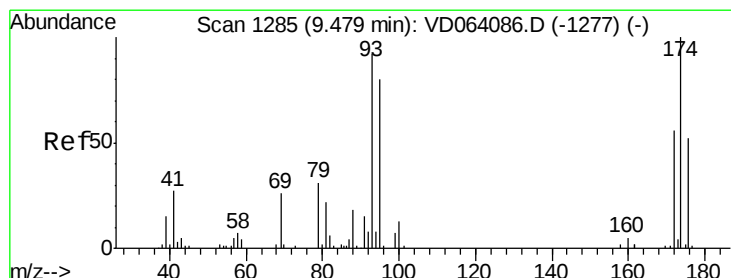
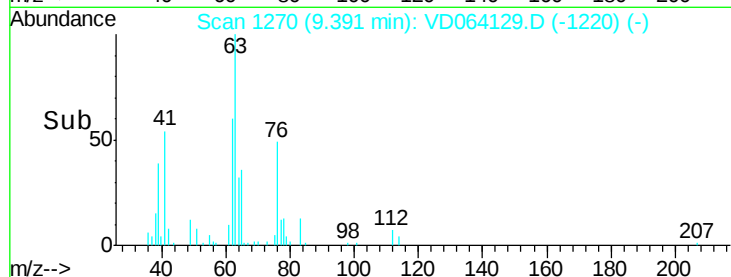
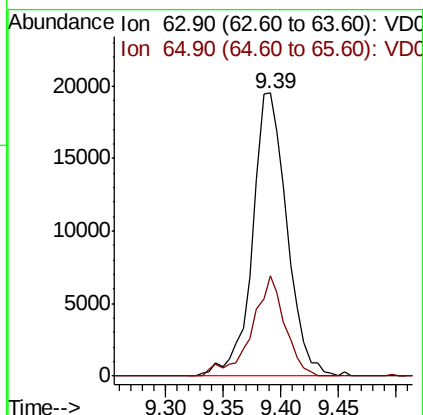
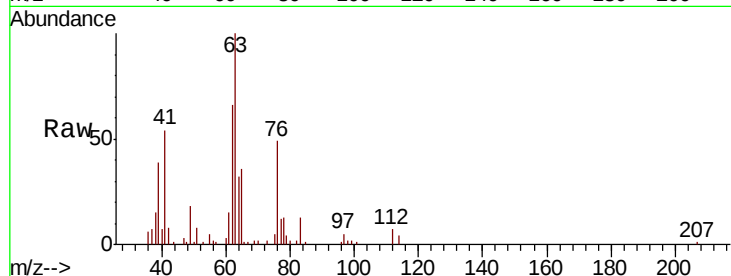
ClientSampled :

Tot Ion: 63 Resp: 40636

Ion Ratio Lower Upper

63 100

65 35.6 25.8 38.8



#46

Dibromomethane

Concen: 19.672 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

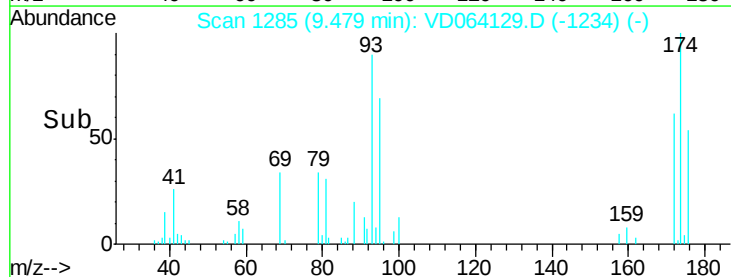
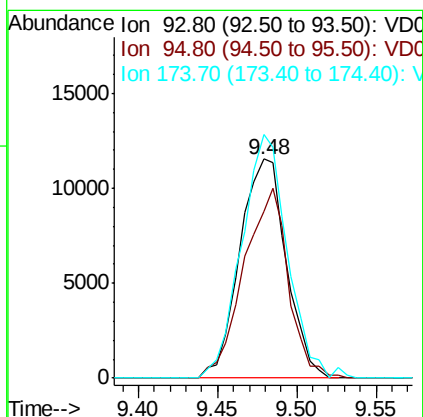
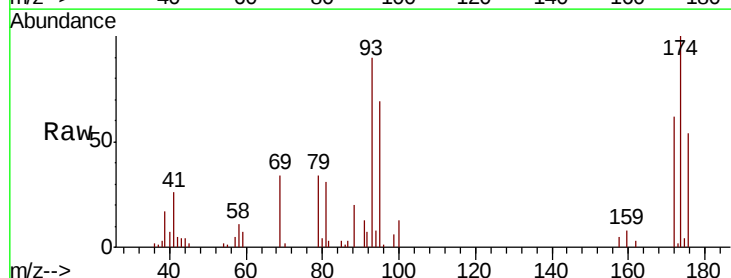
Tgt Ion: 93 Resp: 23595

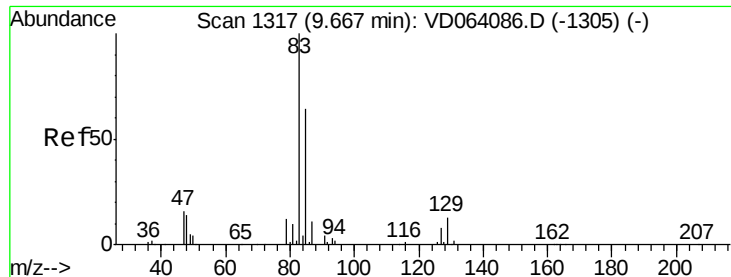
Ion Ratio Lower Upper

93 100

95 82.9 67.4 101.2

174 109.2 86.4 129.6

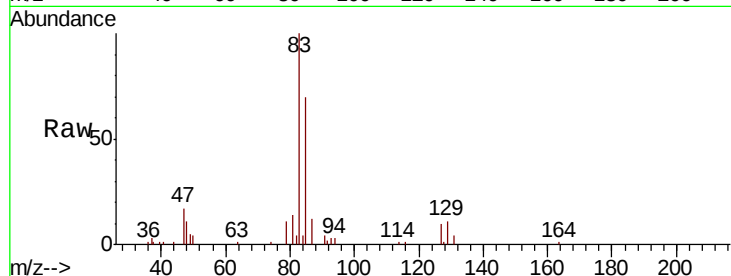




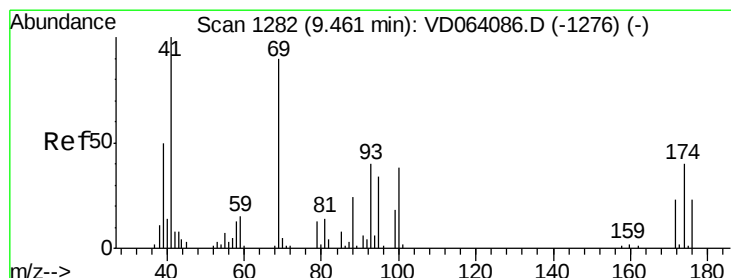
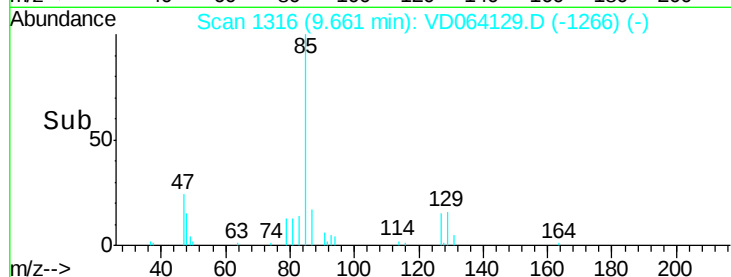
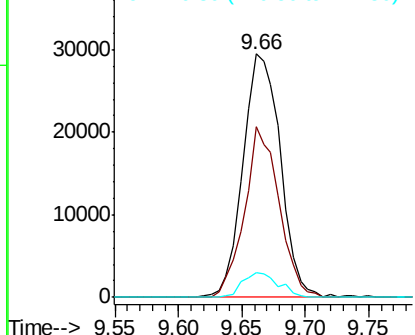
#47
Bromodichloromethane
Concen: 19.962 ug/l
RT: 9.66 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 83 Resp: 60403
Ion Ratio Lower Upper
83 100
85 70.2 51.4 77.0
127 10.2 6.7 10.1#

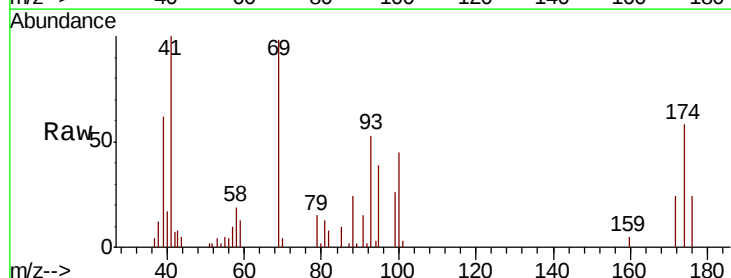


Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 126.80 (126.50 to 127.50): VDC

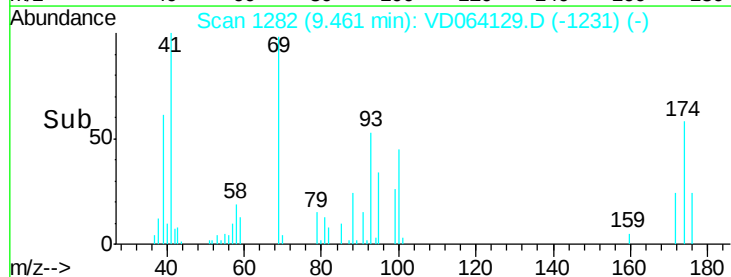
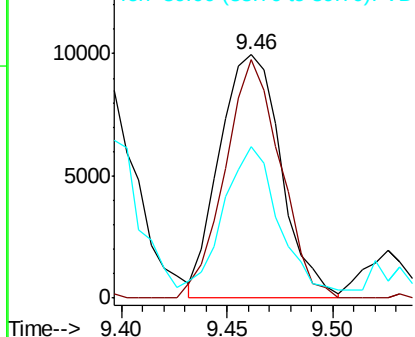


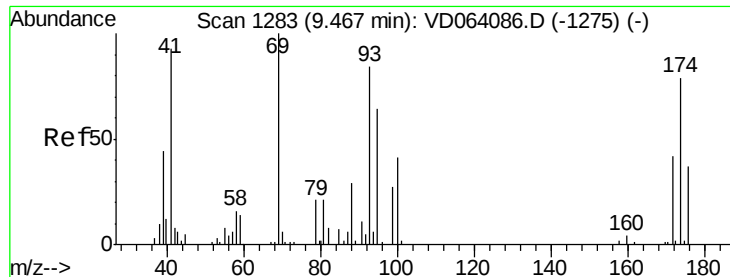
#48
Methyl methacrylate
Concen: 22.259 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 41 Resp: 20178
Ion Ratio Lower Upper
41 100
69 88.0 82.6 124.0
39 52.4 47.0 70.4



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

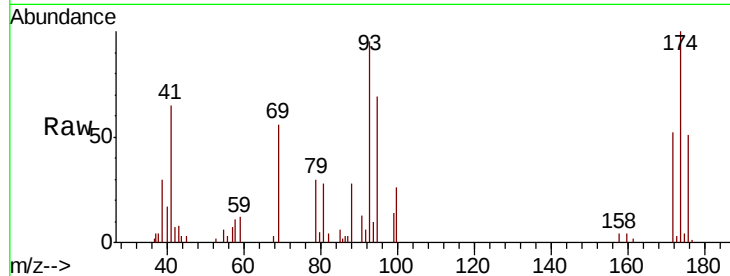




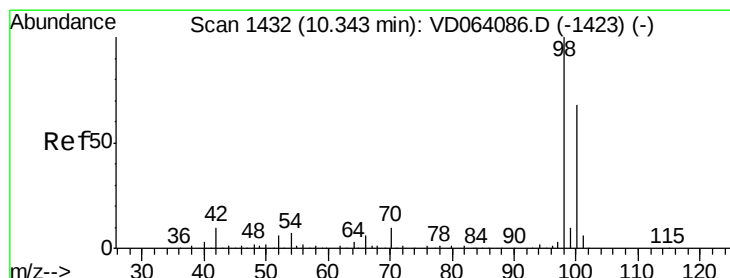
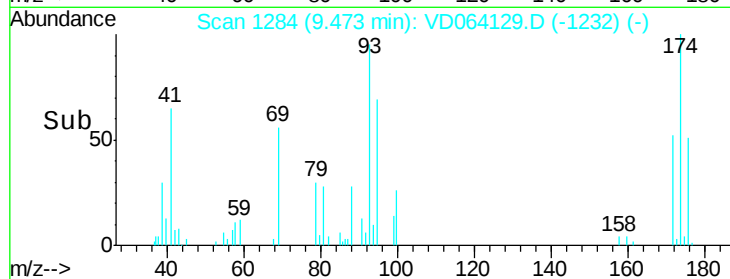
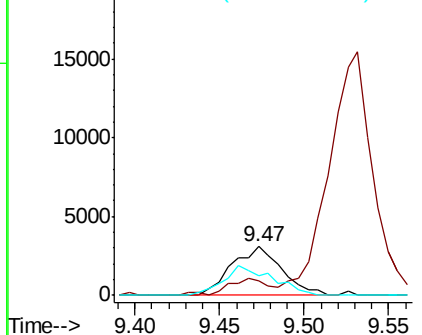
#49
1,4-Dioxane
Concen: 463.458 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 6363
Ion Ratio Lower Upper
88 100
43 29.2 13.4 20.0#
58 58.3 46.7 70.1

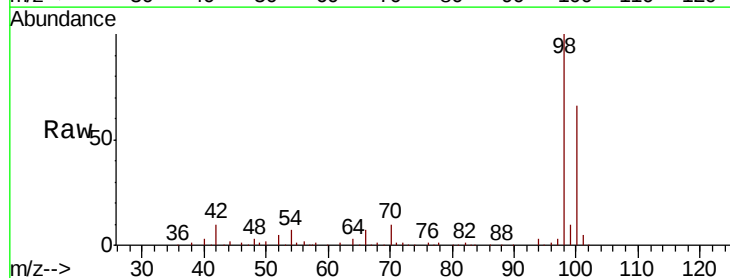


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

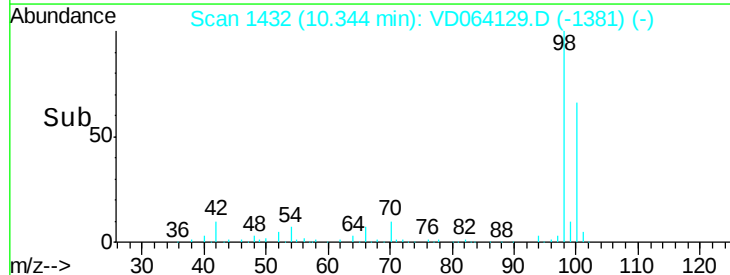
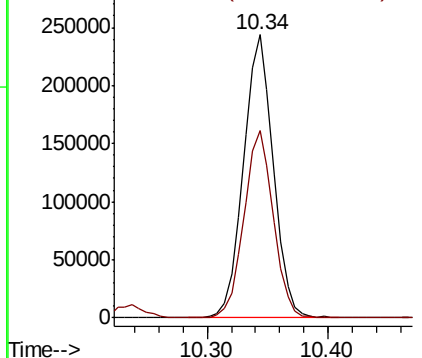


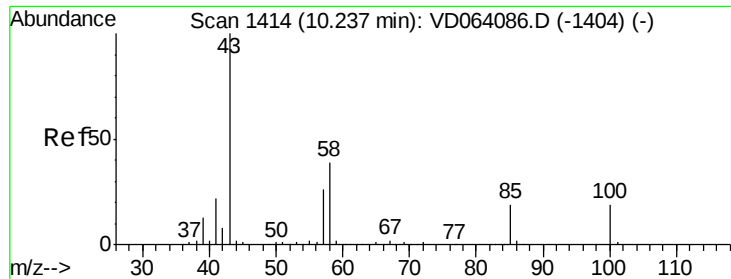
#50
Toluene-d8
Concen: 50.767 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 98 Resp: 420063
Ion Ratio Lower Upper
98 100
100 65.2 53.4 80.0



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: 97.043 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

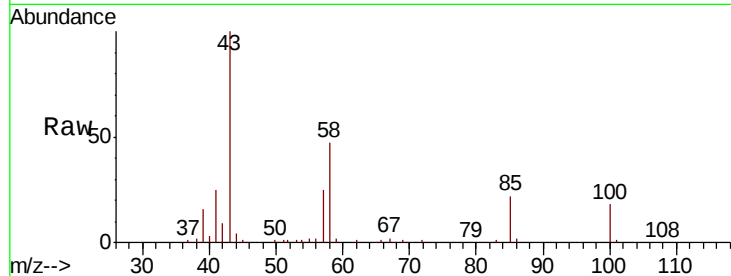
ClientSampled :

Tot Ion: 43 Resp: 103560

Ion Ratio Lower Upper

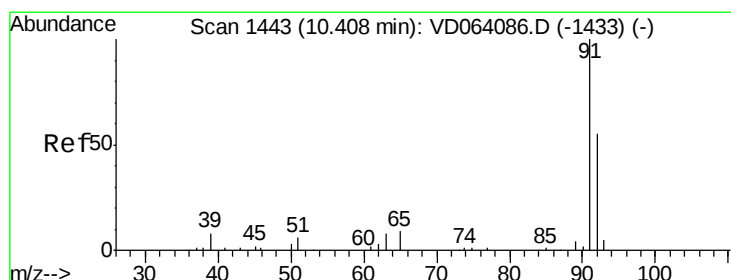
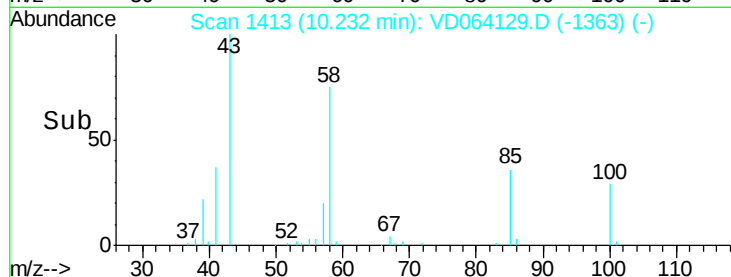
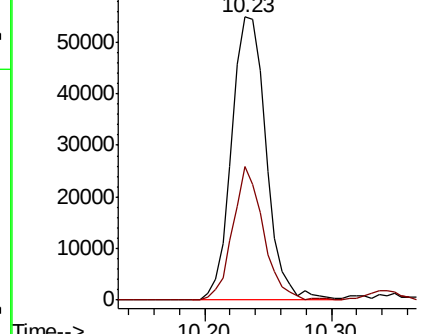
43 100

58 41.7 33.0 49.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 19.324 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD064129.D

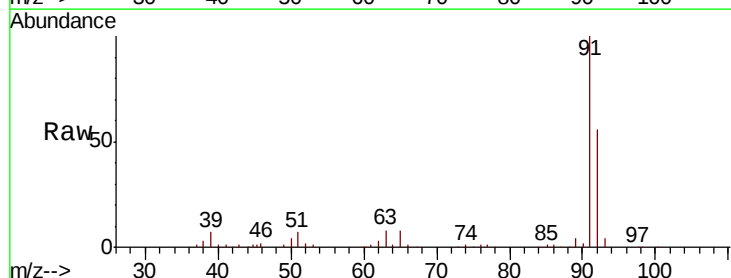
Acq: 31 Oct 2019 13:31

Tgt Ion: 92 Resp: 116371

Ion Ratio Lower Upper

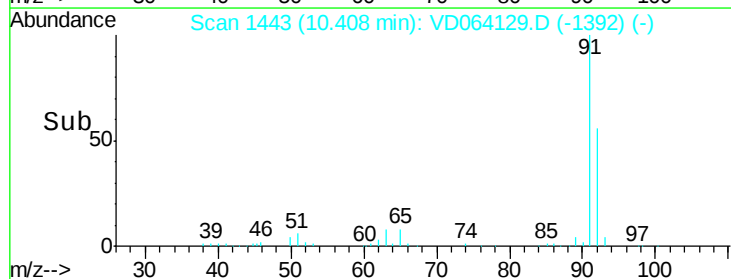
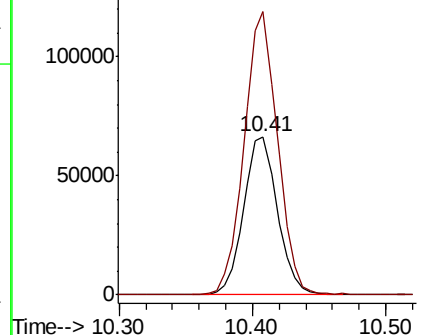
92 100

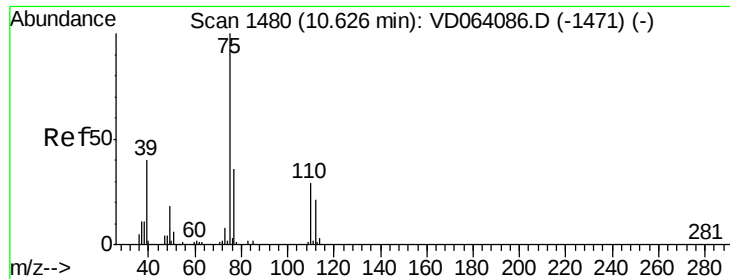
91 176.9 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 19.404 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

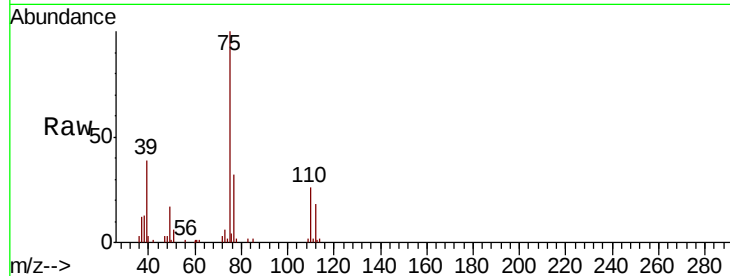
ClientSampleId :

Tot Ion: 75 Resp: 54808

Ion Ratio Lower Upper

75 100

77 32.4 28.7 43.1



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

10.63

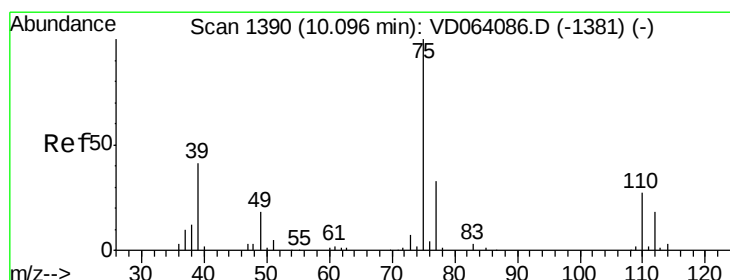
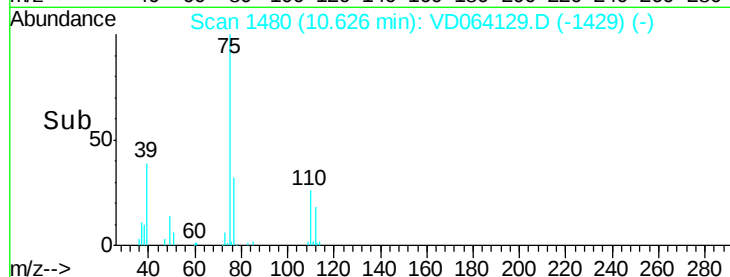
30000

20000

10000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.458 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

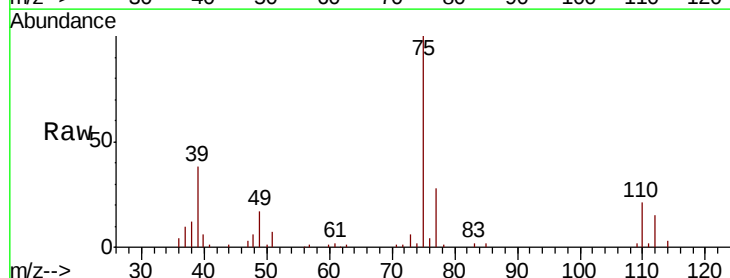
Tgt Ion: 75 Resp: 64662

Ion Ratio Lower Upper

75 100

77 27.8 26.8 40.2

39 38.3 32.7 49.1



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

10.10

50000

40000

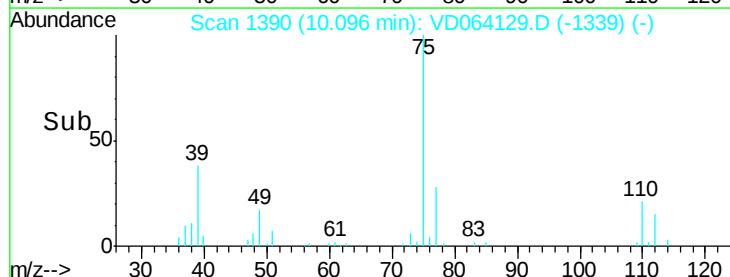
30000

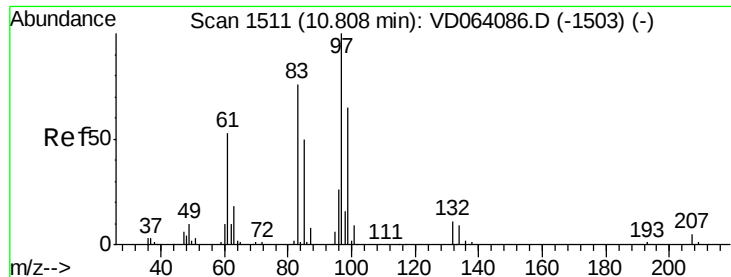
20000

10000

0

Time-->

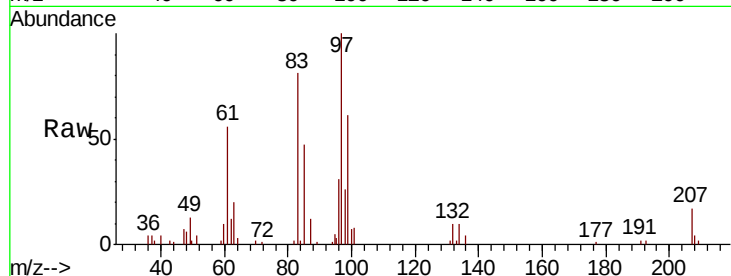




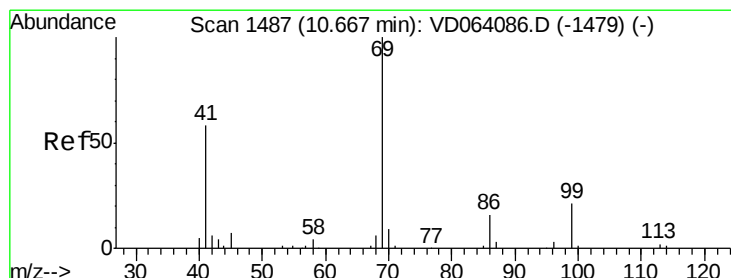
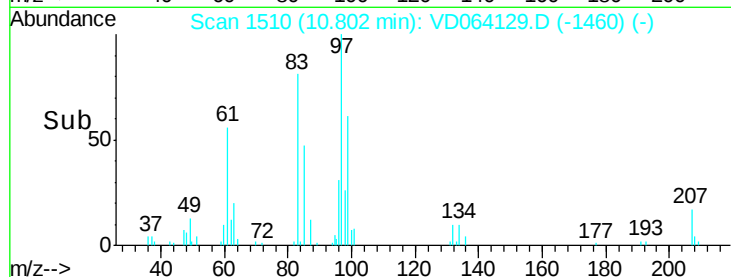
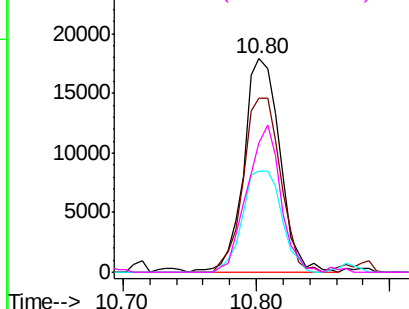
#55
 1,1,2-Trichloroethane
 Concen: 19.613 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:	97	Resp:	33353
Ion	Ratio	Lower	Upper
97	100		
83	81.5	60.9	91.3
85	47.4	40.2	60.2
99	60.8	51.9	77.9

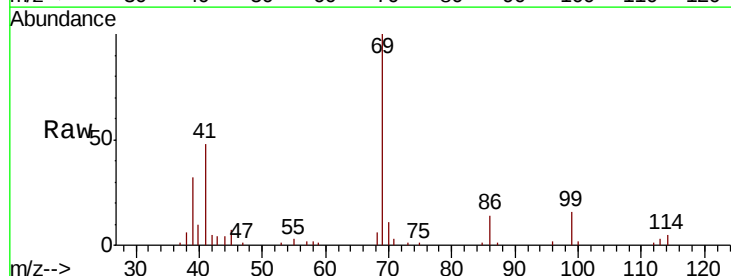


Abundance Ion 96.90 (96.60 to 97.60): VDC
 Ion 82.90 (82.60 to 83.60): VDC
 Ion 84.90 (84.60 to 85.60): VDC
 Ion 98.90 (98.60 to 99.60): VDC

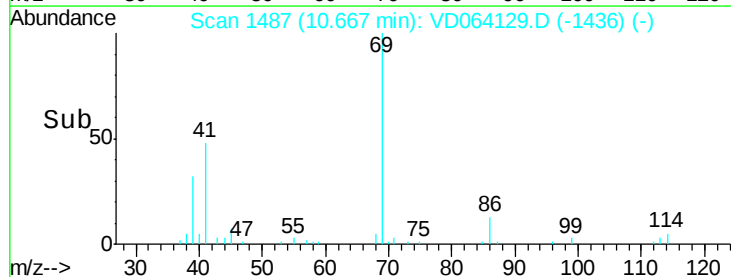
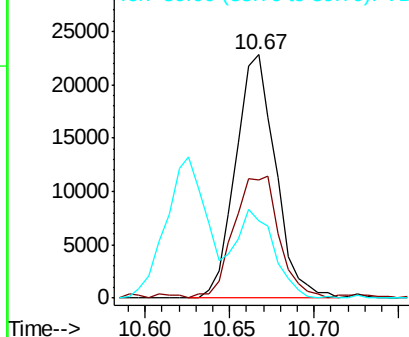


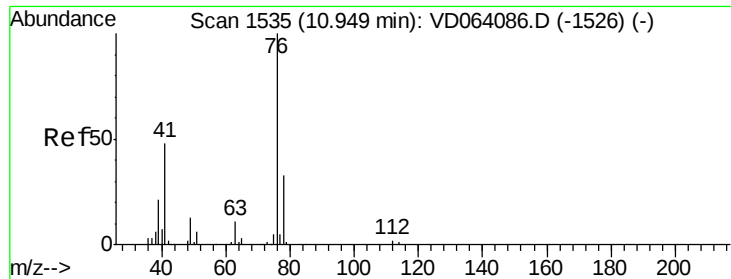
#56
 Ethyl methacrylate
 Concen: 20.145 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion:	69	Resp:	37672
Ion	Ratio	Lower	Upper
69	100		
41	56.6	46.9	70.3
39	32.1	27.3	40.9



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

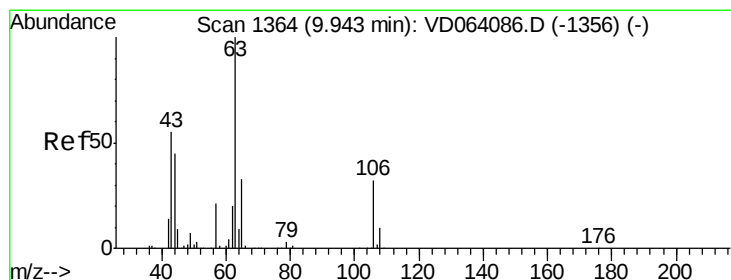
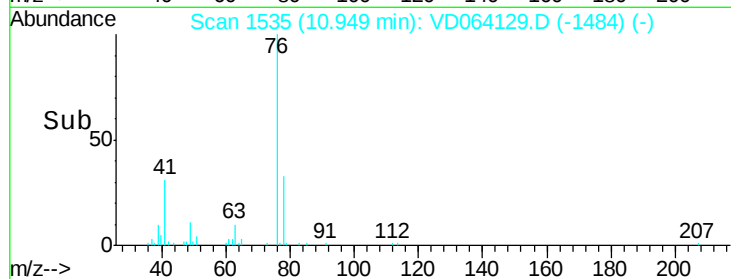
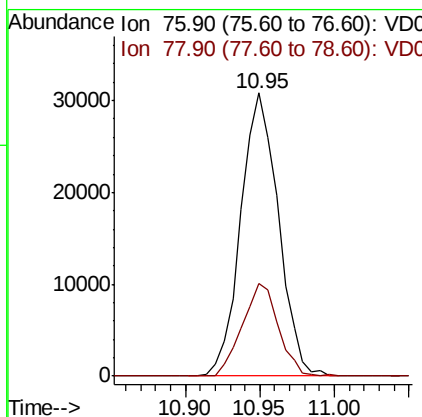
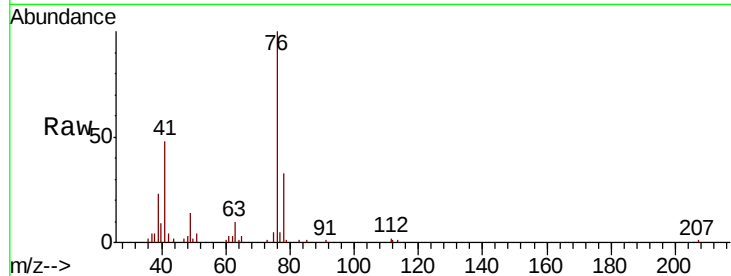




#57
 1,3-Dichloropropane
 Concen: 19.117 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

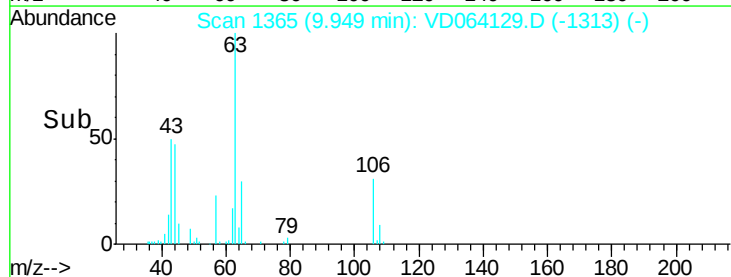
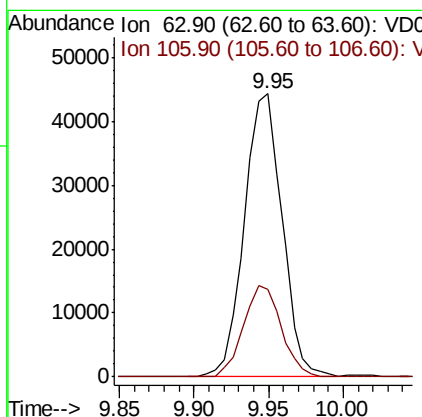
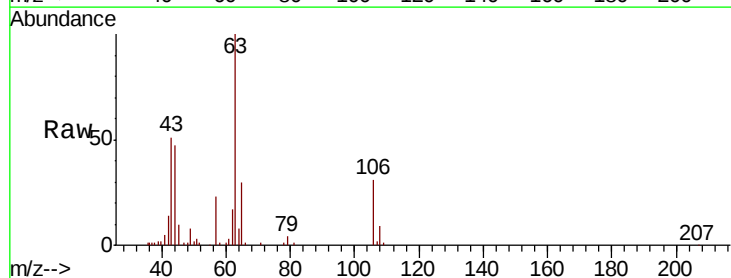
Instrument :
 MSVOA_D
 ClientSampleId :

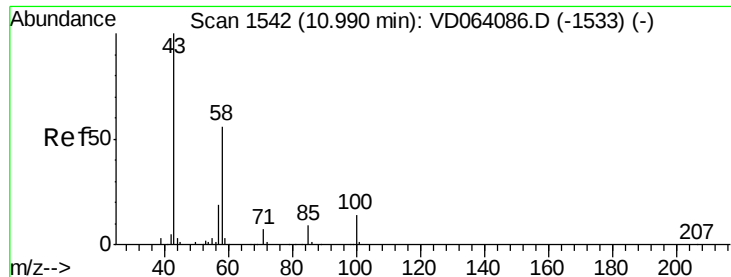
Tot Ion: 76 Resp: 53764
 Ion Ratio Lower Upper
 76 100
 78 31.4 25.9 38.9



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.202 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion: 63 Resp: 77632
 Ion Ratio Lower Upper
 63 100
 106 32.1 25.8 38.8

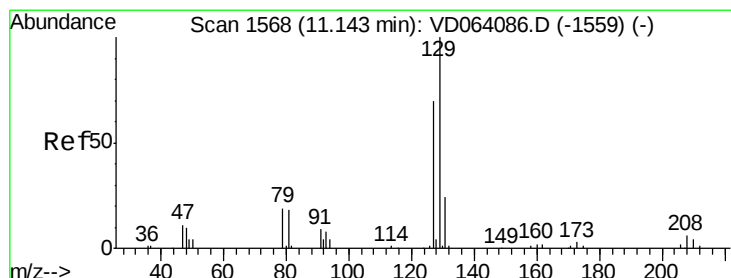
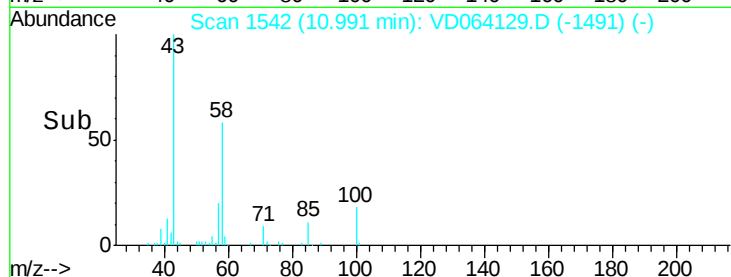
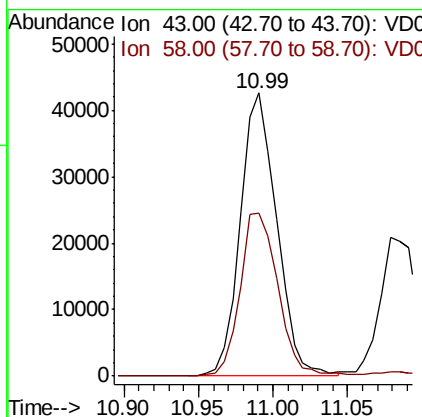
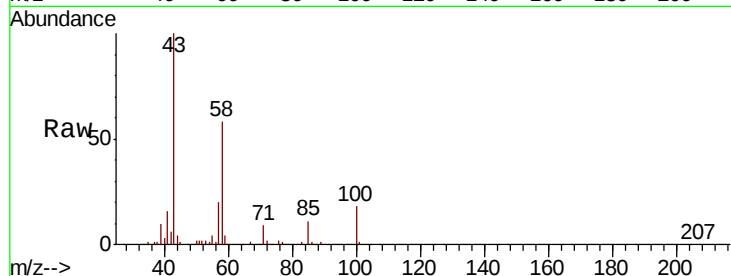




#59
2-Hexanone
Concen: 91.986 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

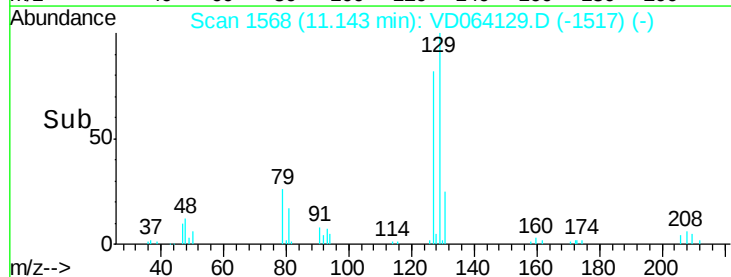
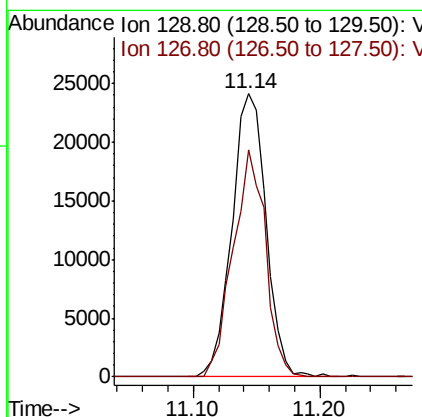
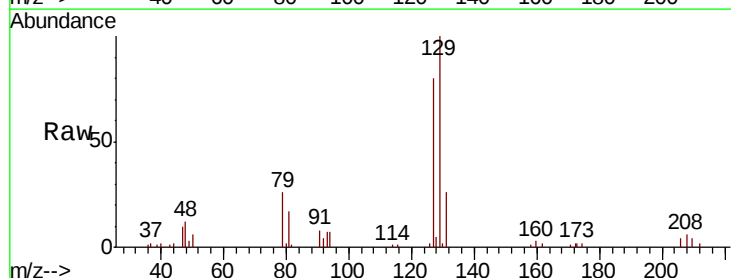
Instrument :
MSVOA_D
ClientSampled :

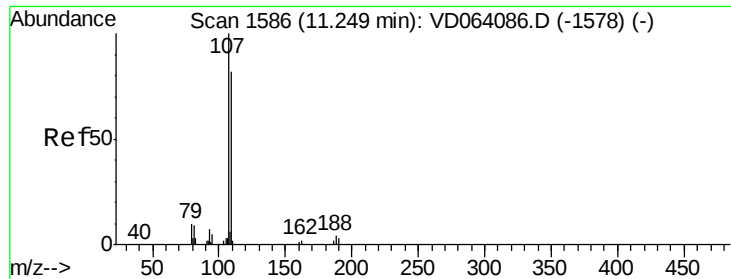
Tot Ion: 43 Resp: 72005
Ion Ratio Lower Upper
43 100
58 59.9 29.2 87.6



#60
Dibromochloromethane
Concen: 19.448 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 129 Resp: 44889
Ion Ratio Lower Upper
129 100
127 76.6 38.3 114.8





#61

1,2-Dibromoethane

Concen: 19.631 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

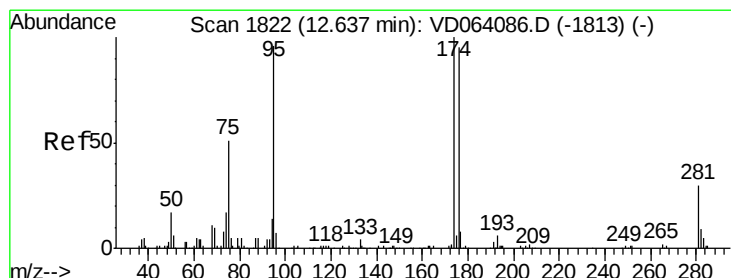
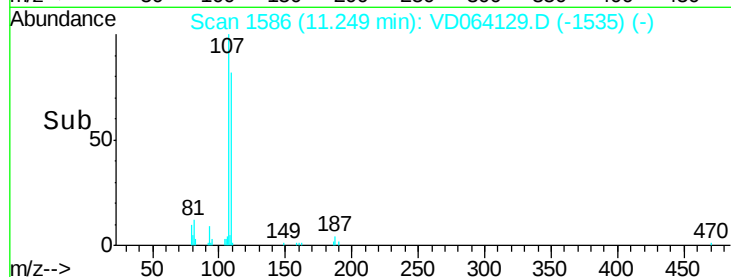
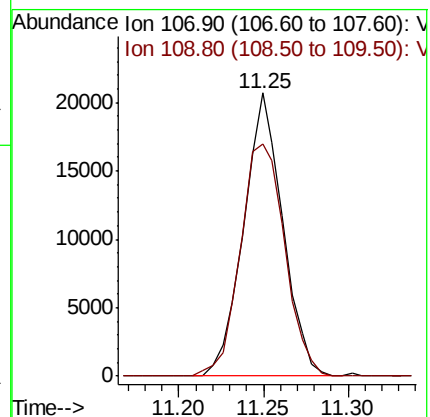
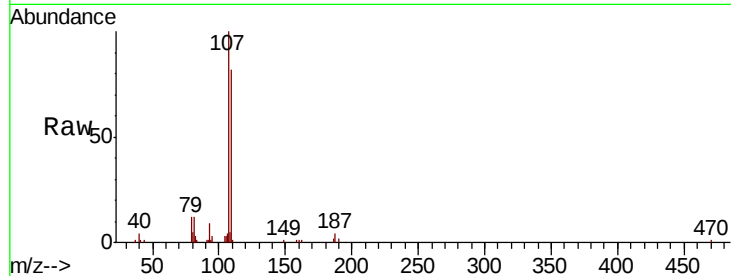
ClientSampleId :

Tot Ion:107 Resp: 33388

Ion Ratio Lower Upper

107 100

109 93.3 73.0 109.4



#62

4-Bromofluorobenzene

Concen: 51.304 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

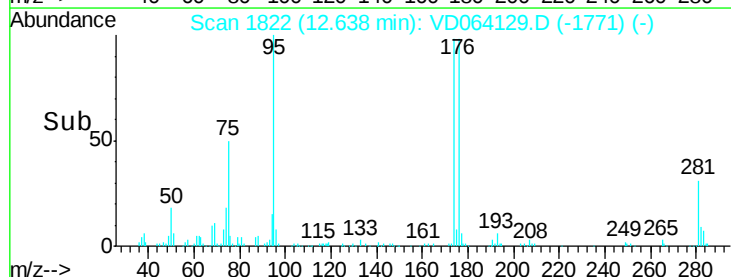
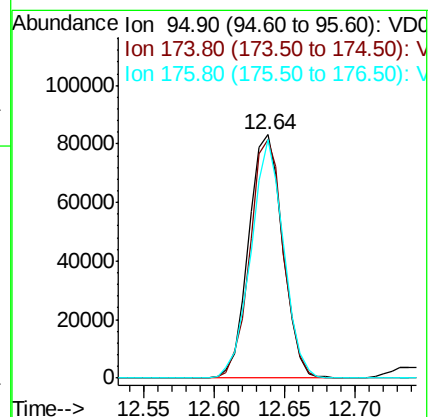
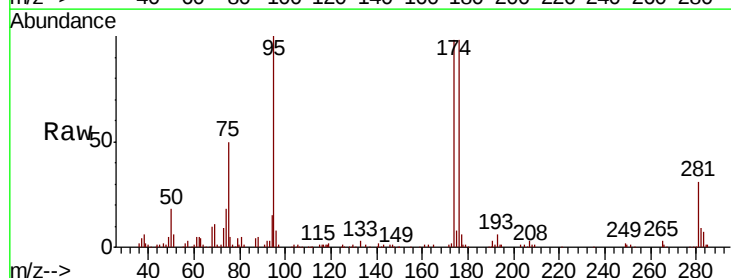
Tgt Ion: 95 Resp: 140738

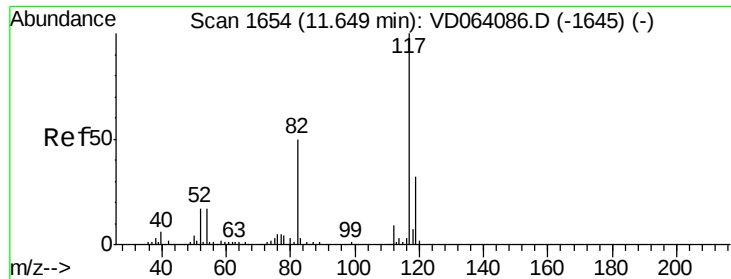
Ion Ratio Lower Upper

95 100

174 96.2 0.0 201.6

176 93.9 0.0 192.6

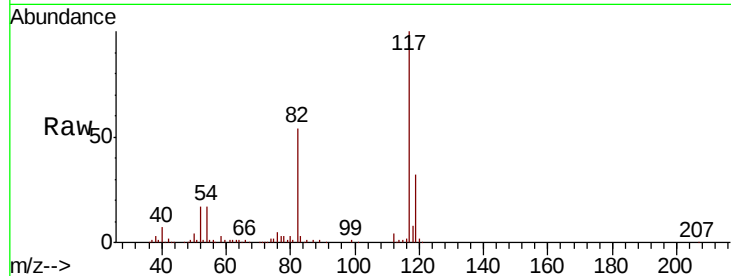




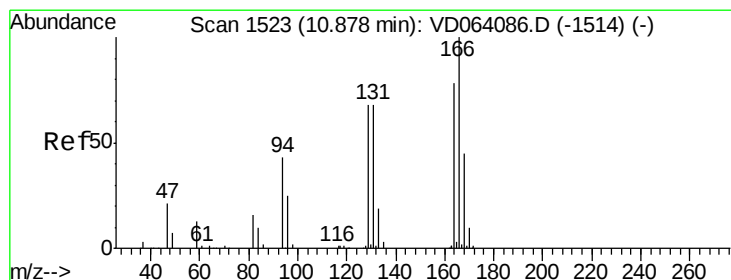
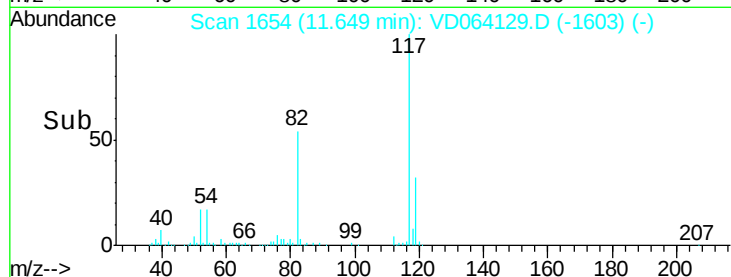
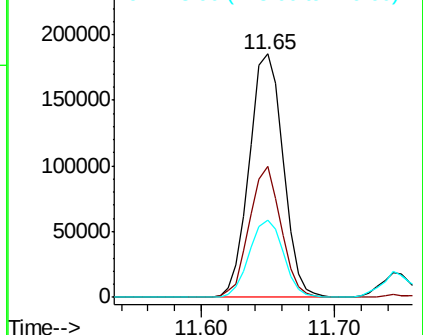
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 325618
Ion Ratio Lower Upper
117 100
82 54.0 40.2 60.4
119 32.0 26.0 39.0

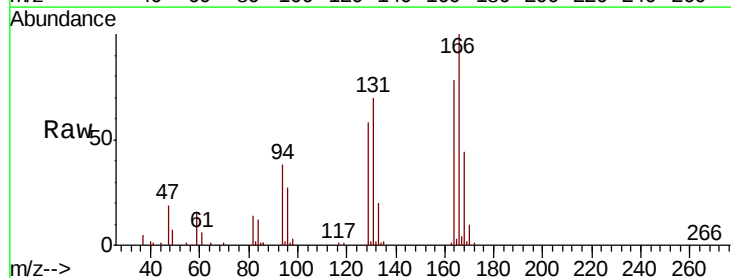


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VD
Ion 118.90 (118.60 to 119.60): V

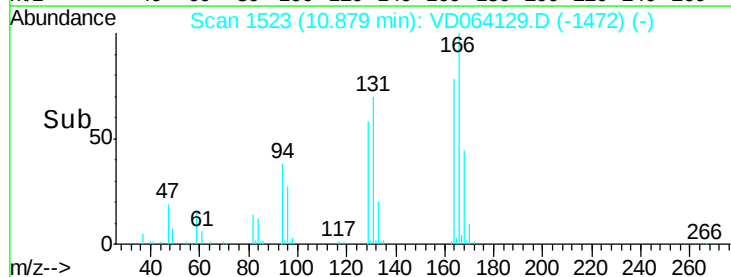
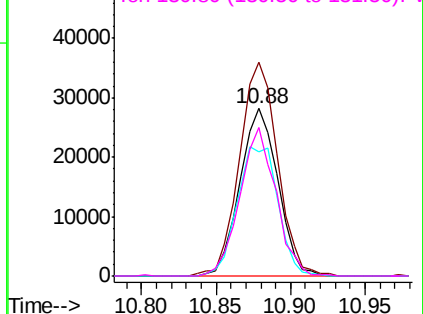


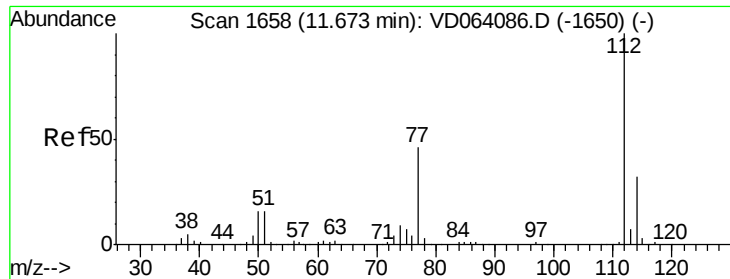
#64
Tetrachloroethene
Concen: 21.223 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion:164 Resp: 49646
Ion Ratio Lower Upper
164 100
166 127.6 102.7 154.1
129 74.4 69.8 104.6
131 88.9 69.4 104.0



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

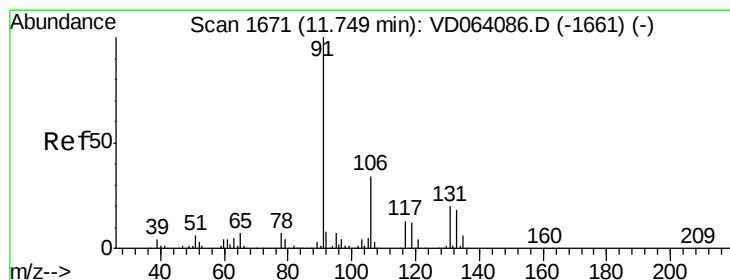
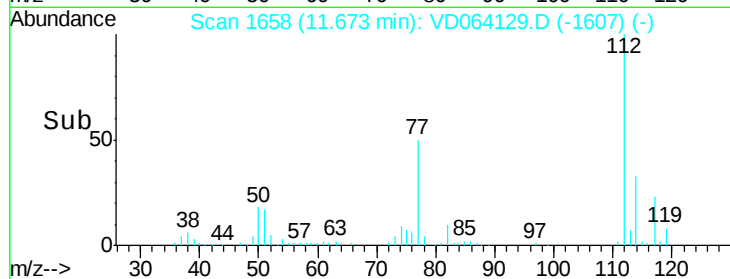
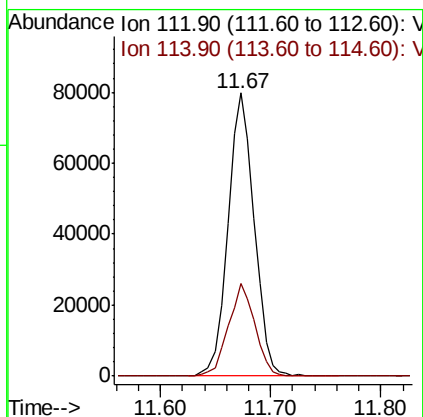
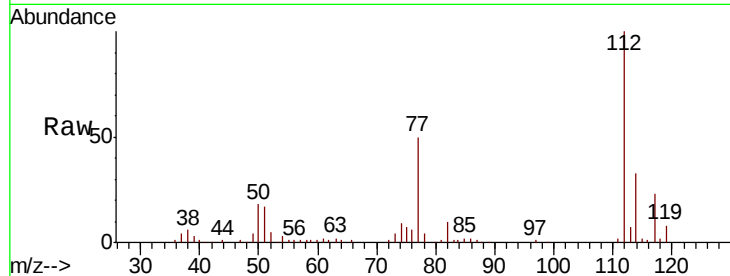




#65
Chlorobenzene
Concen: 19.641 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

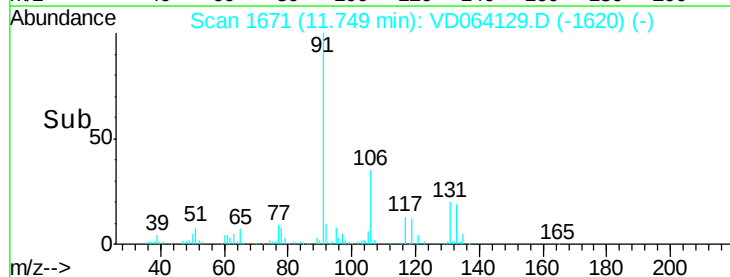
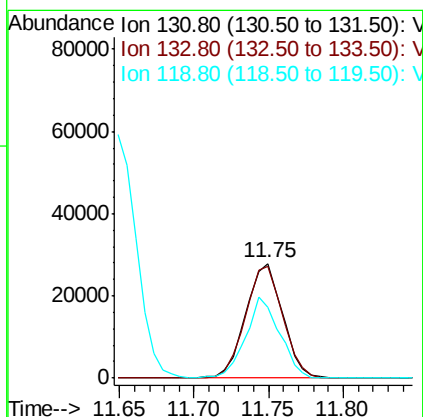
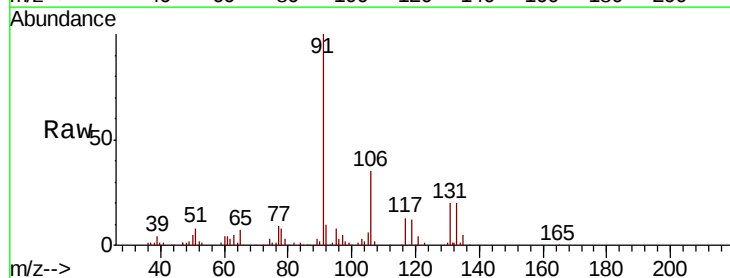
Instrument :
MSVOA_D
ClientSampleId :

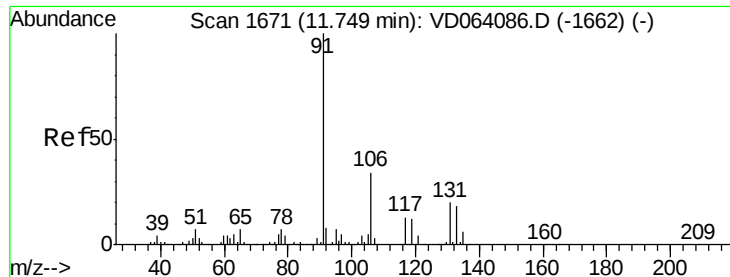
Tot Ion:112 Resp: 132144
Ion Ratio Lower Upper
112 100
114 32.8 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 18.856 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion:131 Resp: 47470
Ion Ratio Lower Upper
131 100
133 98.9 47.6 142.9
119 65.7 31.4 94.3





#67

Ethyl Benzene

Concen: 19.369 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

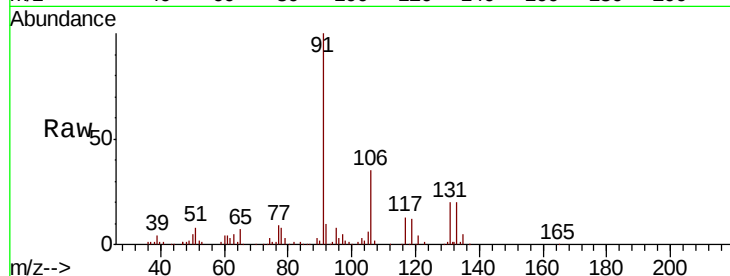
ClientSampleId :

Tot Ion: 91 Resp: 231790

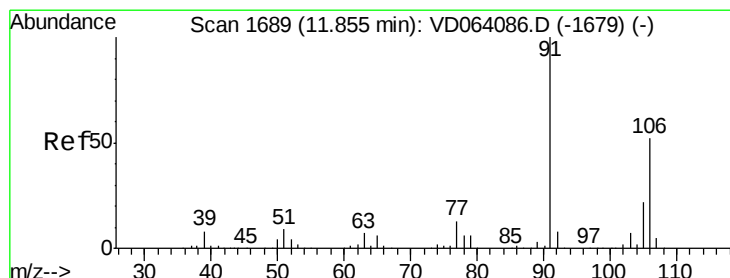
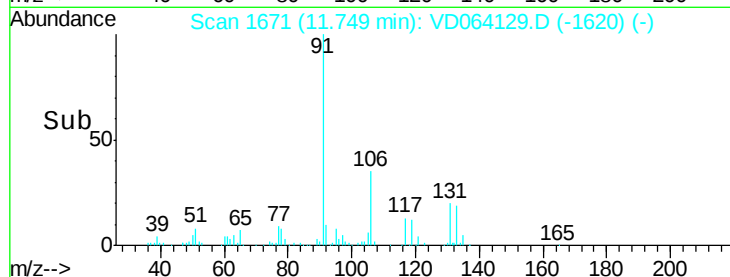
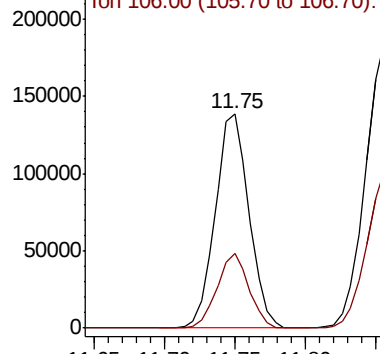
Ion Ratio Lower Upper

91 100

106 35.0 27.0 40.6



Abundance Ion 91.00 (90.70 to 91.70): VDC



#68

m/p-Xylenes

Concen: 38.910 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064129.D

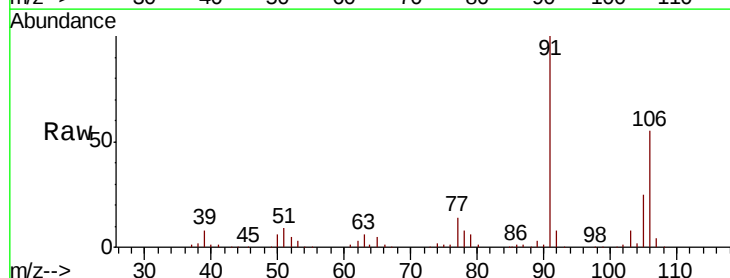
Acq: 31 Oct 2019 13:31

Tgt Ion: 106 Resp: 187291

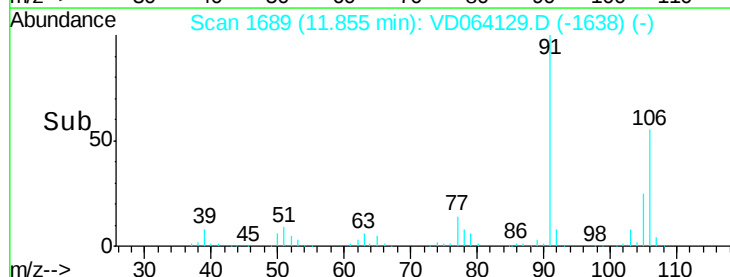
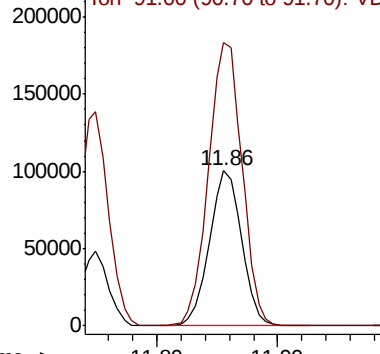
Ion Ratio Lower Upper

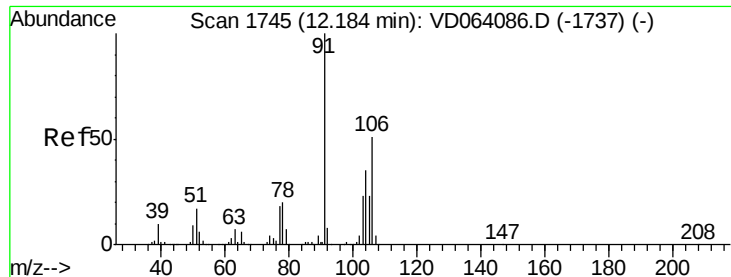
106 100

91 190.7 154.0 231.0



Abundance Ion 106.00 (105.70 to 106.70): VDC

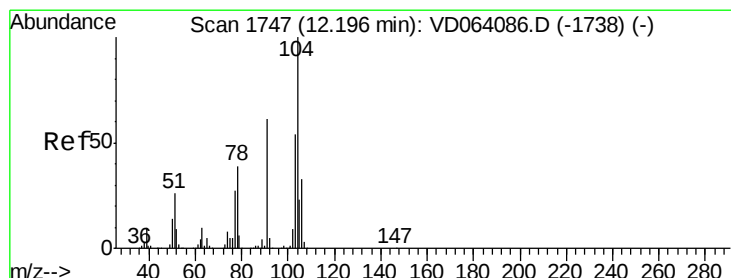
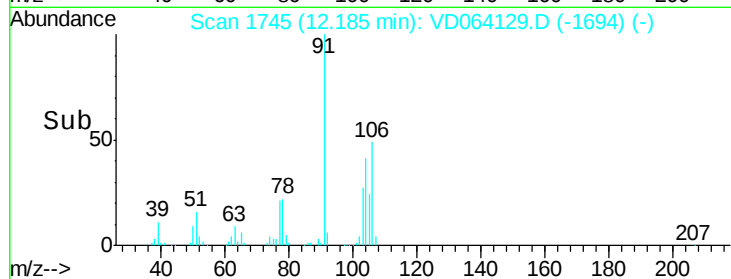
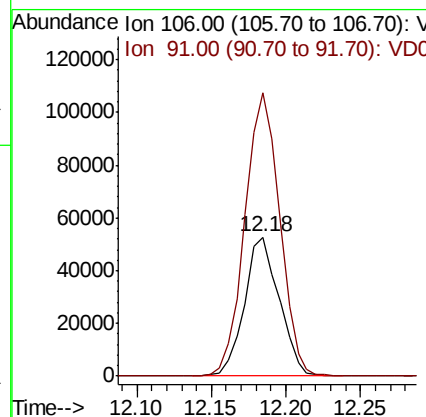
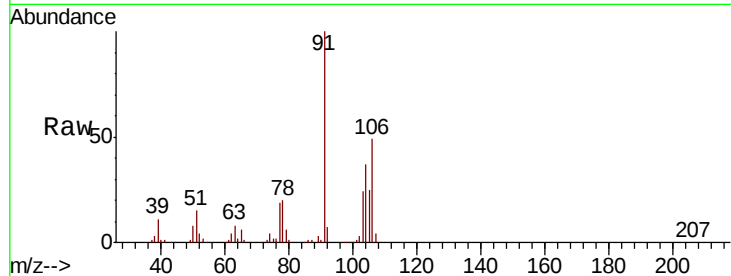




#69
o-Xylene
Concen: 19.330 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

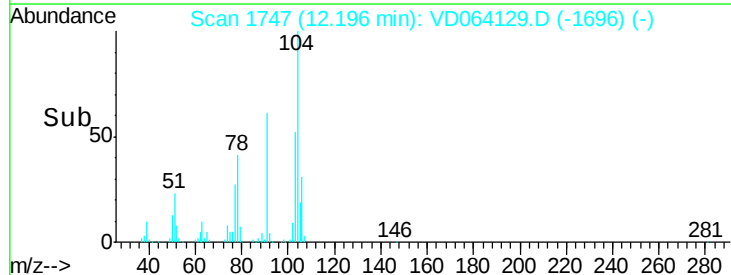
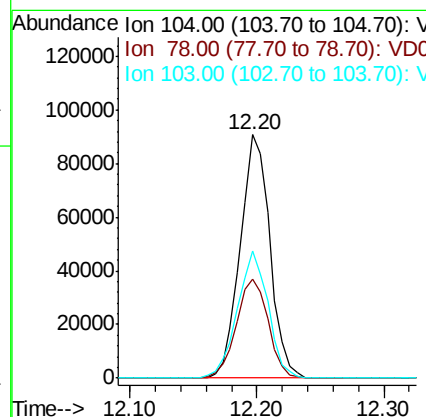
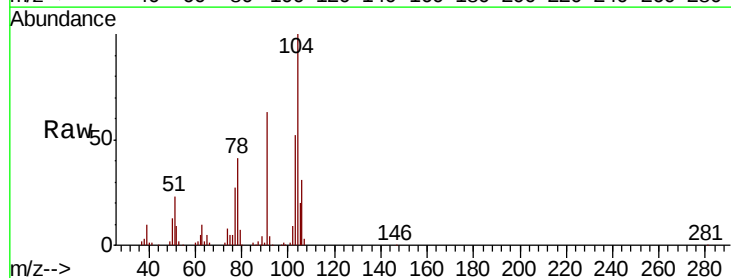
Instrument :
MSVOA_D
ClientSampled :

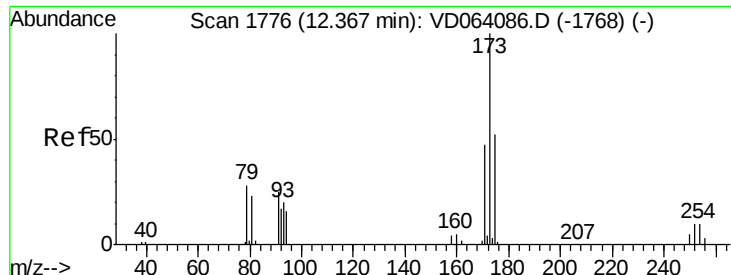
Tot Ion:106 Resp: 84913
Ion Ratio Lower Upper
106 100
91 205.4 100.6 301.9



#70
Styrene
Concen: 19.447 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion:104 Resp: 147339
Ion Ratio Lower Upper
104 100
78 43.7 34.6 51.8
103 53.9 44.2 66.2

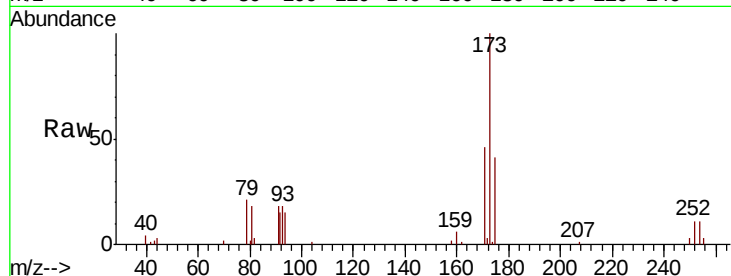




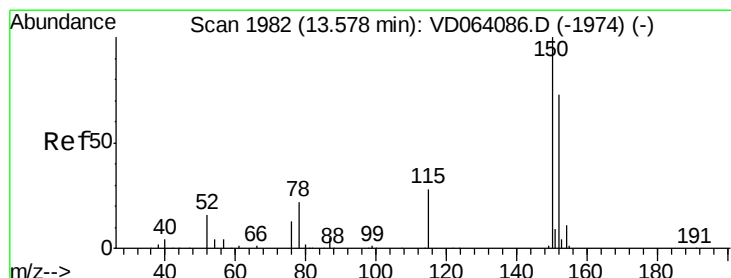
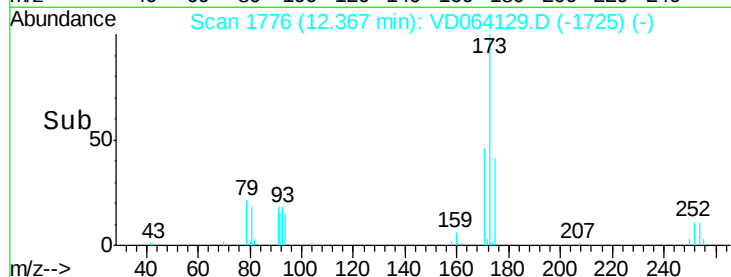
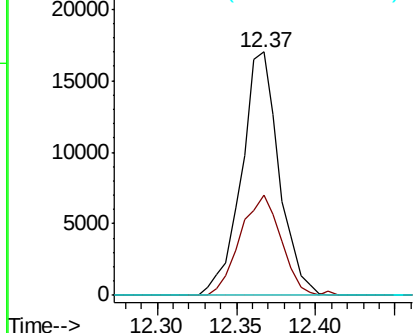
#71
Bromoform
Concen: 20.799 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:173 Resp: 27965
Ion Ratio Lower Upper
173 100
175 44.7 24.3 72.9
254 0.0 0.0 0.0

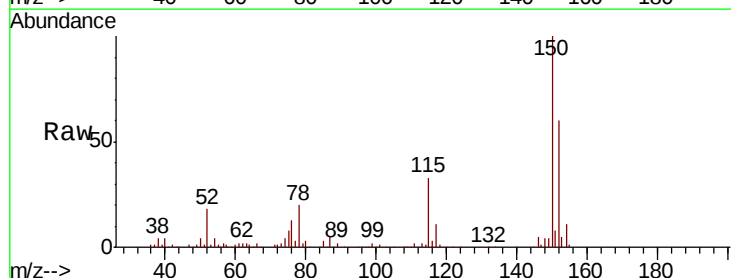


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

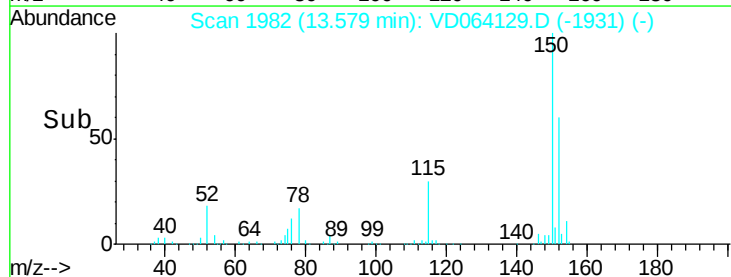
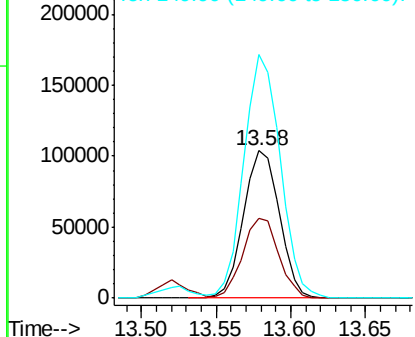


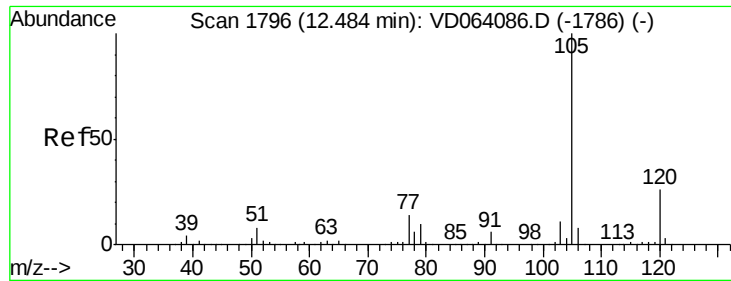
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion:152 Resp: 172940
Ion Ratio Lower Upper
152 100
115 54.7 26.2 78.6
150 168.1 0.0 338.8



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: 19.824 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

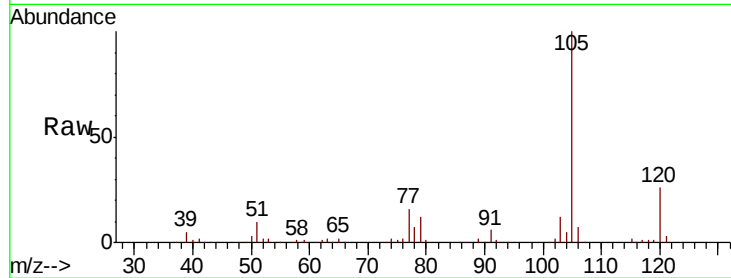
ClientSampleId :

Tot Ion:105 Resp: 238231

Ion Ratio Lower Upper

105 100

120 26.8 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.48

150000

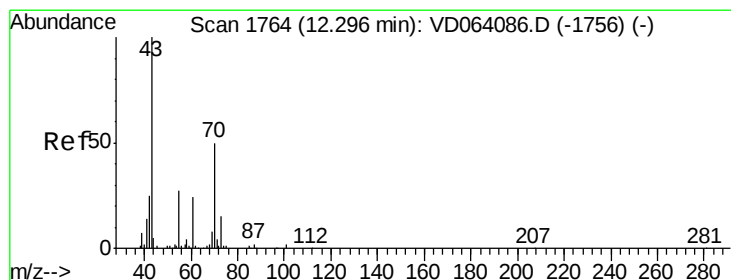
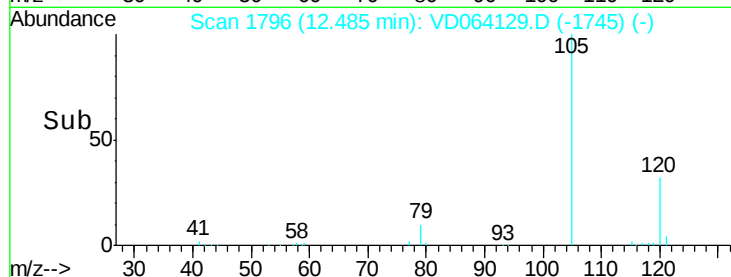
100000

50000

0

Time-->

12.40 12.50



#74

N-ethyl acetate

Concen: 18.355 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Tgt Ion: 43 Resp: 36646

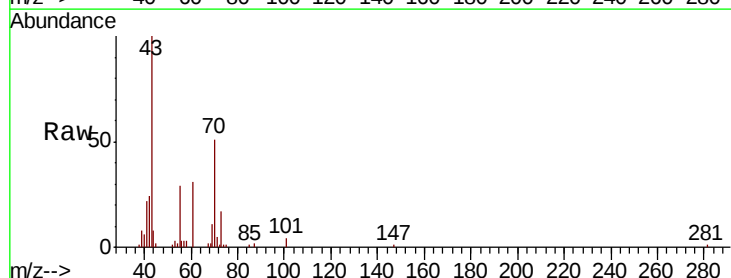
Ion Ratio Lower Upper

43 100

70 48.7 38.6 58.0

55 25.8 20.4 30.6

61 27.9 20.8 31.2



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

30000

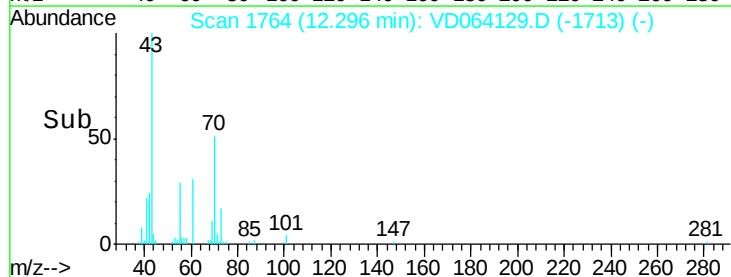
20000

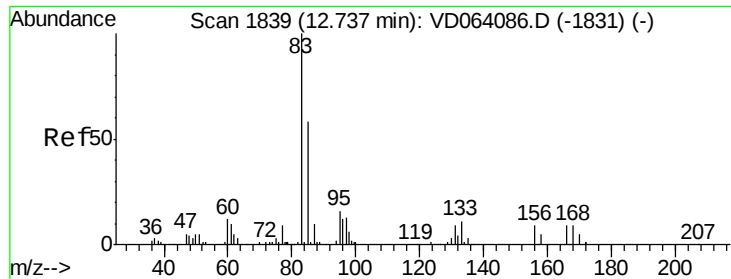
10000

0

Time-->

12.20 12.25 12.30 12.35





#75

1,1,2,2-Tetrachloroethane

Concen: 19.478 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampled :

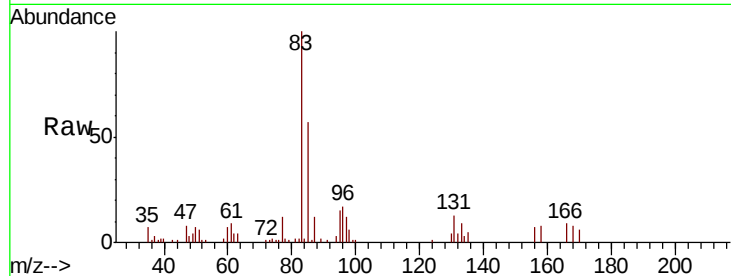
Tot Ion: 83 Resp: 36896

Ion Ratio Lower Upper

83 100

131 12.9 5.7 17.0

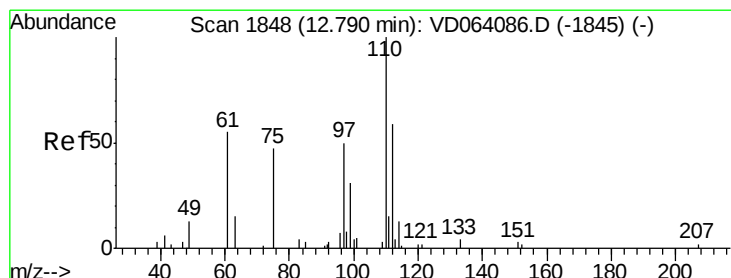
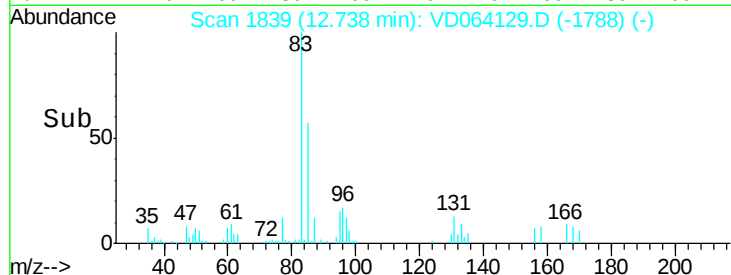
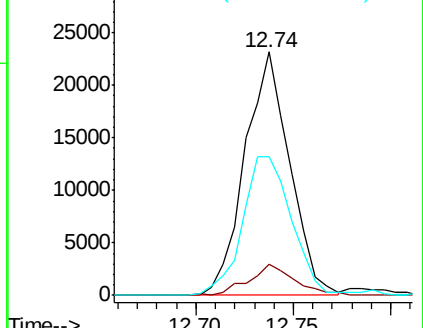
85 62.3 32.1 96.5



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: 39.856 ug/l

RT: 12.78 min Scan# 1847

Delta R.T. -0.01 min

Lab File: VD064129.D

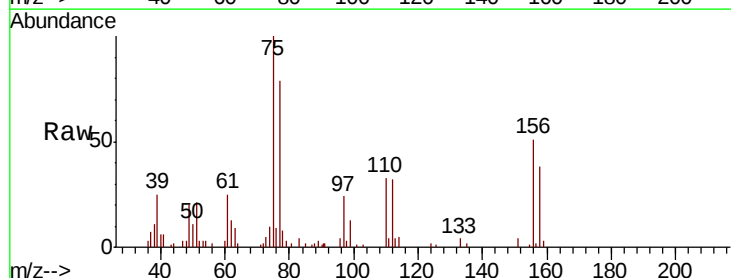
Acq: 31 Oct 2019 13:31

Tgt Ion: 75 Resp: 46315

Ion Ratio Lower Upper

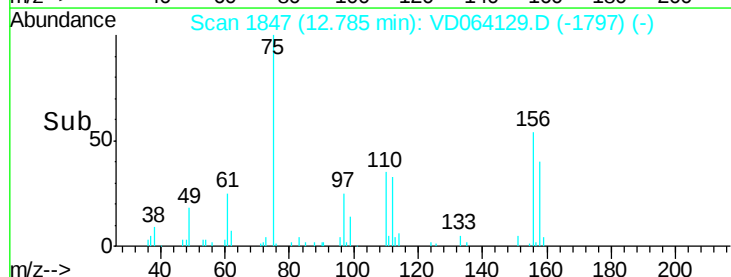
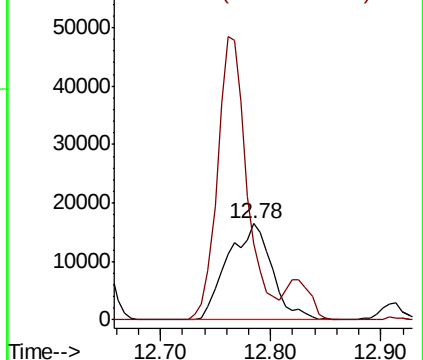
75 100

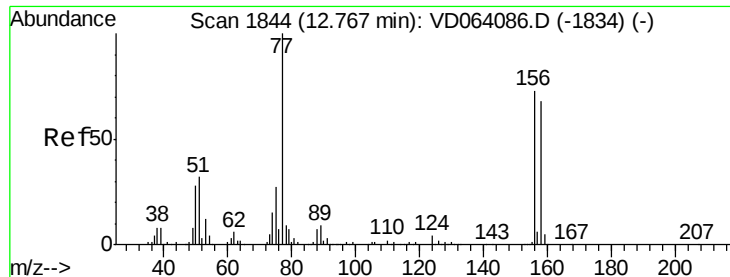
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 19.833 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampleId :

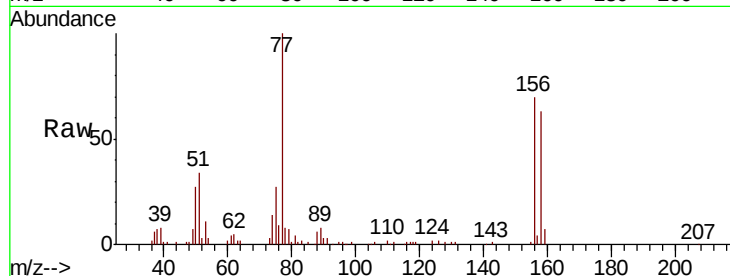
Tot Ion:156 Resp: 57548

Ion Ratio Lower Upper

156 100

77 157.6 76.0 228.0

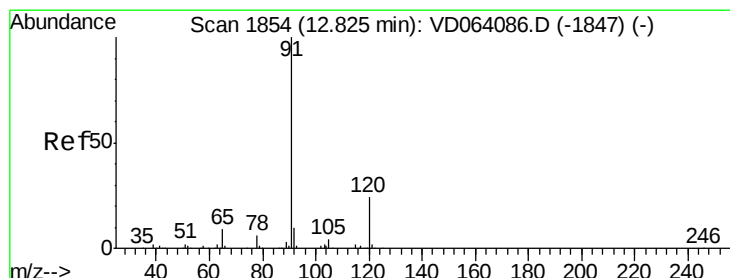
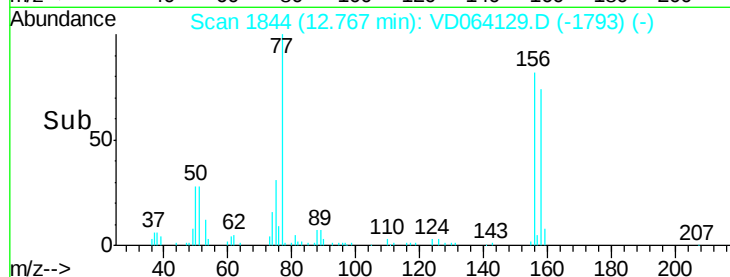
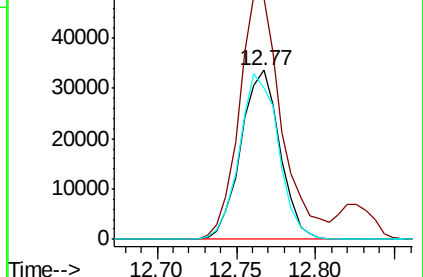
158 97.7 47.6 142.8



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: 19.893 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064129.D

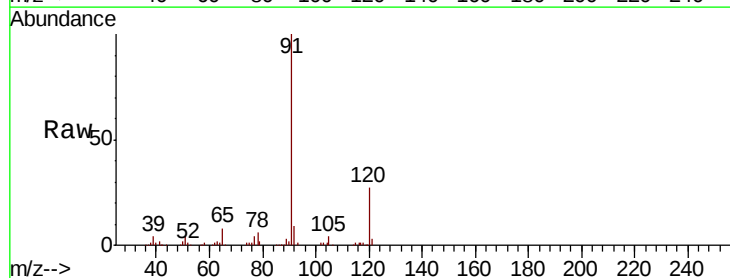
Acq: 31 Oct 2019 13:31

Tgt Ion: 91 Resp: 280163

Ion Ratio Lower Upper

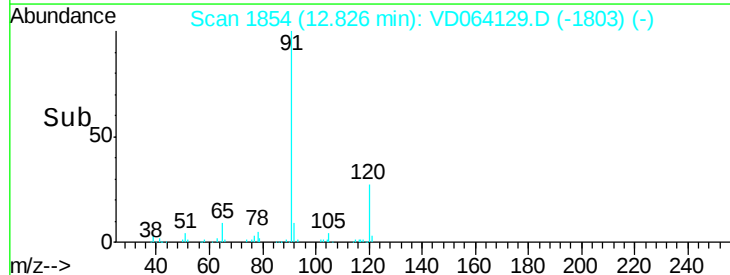
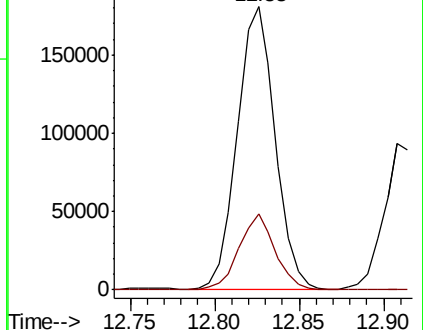
91 100

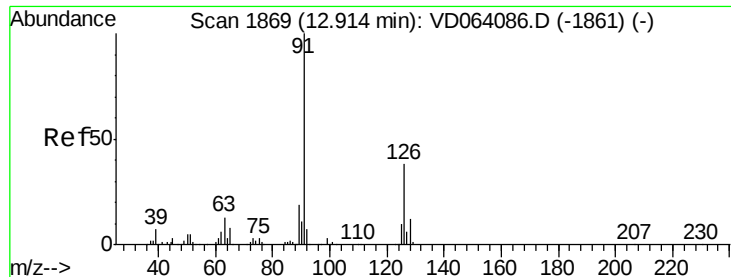
120 25.6 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.911 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

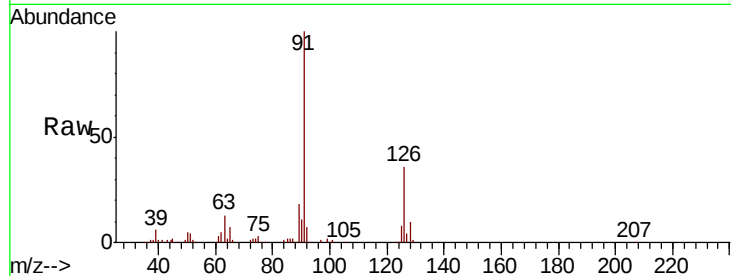
ClientSampleId :

Tot Ion: 91 Resp: 150312

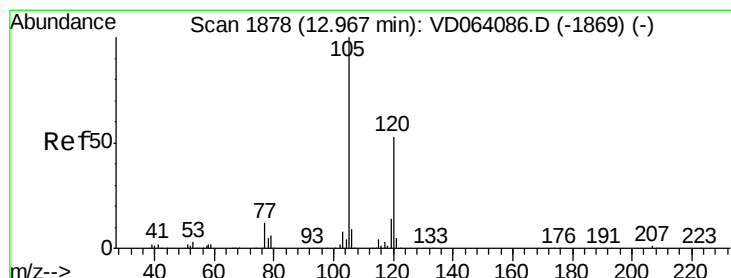
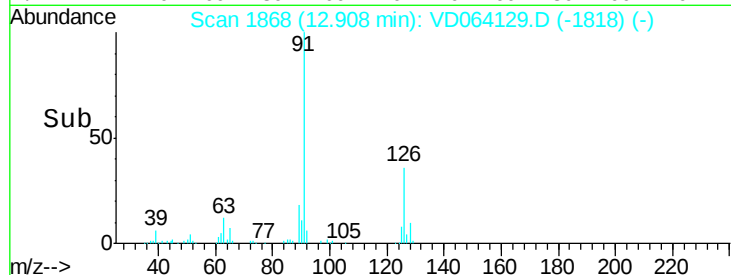
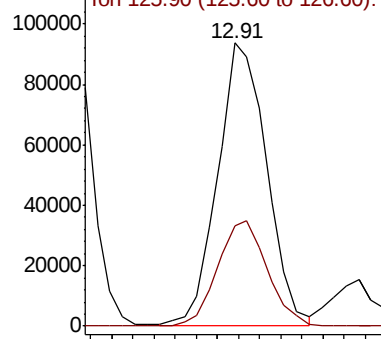
Ion Ratio Lower Upper

91 100

126 37.9 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 19.614 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064129.D

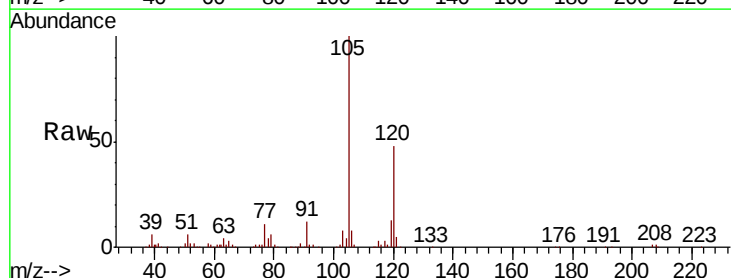
Acq: 31 Oct 2019 13:31

Tgt Ion:105 Resp: 197276

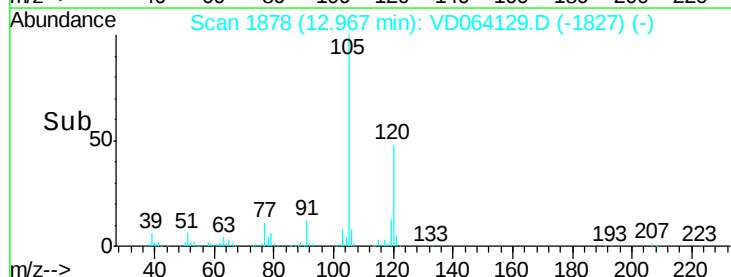
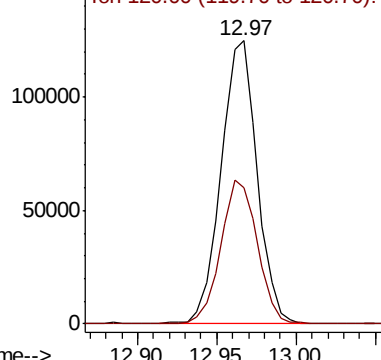
Ion Ratio Lower Upper

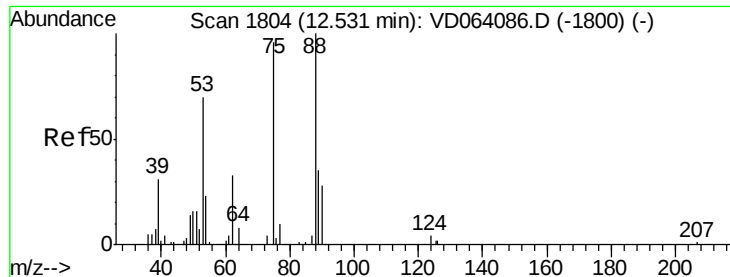
105 100

120 51.4 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.056 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

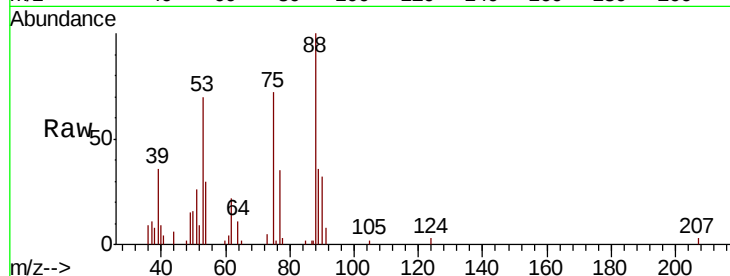
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 10843

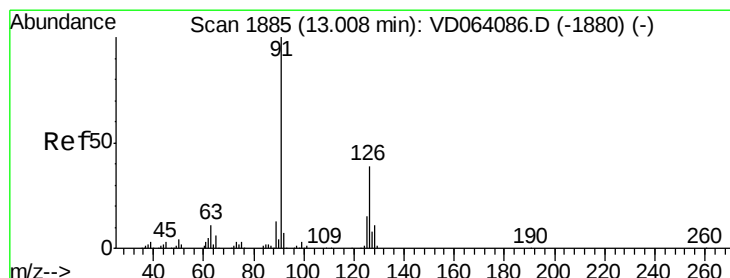
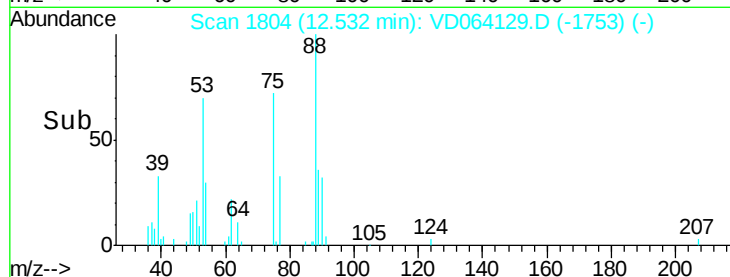
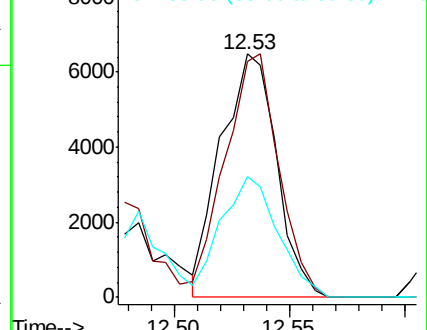
Ion	Ratio	Lower	Upper
75	100		
53	97.5	68.6	103.0
89	50.8	36.9	55.3



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: 20.008 ug/l

RT: 13.01 min Scan# 1885

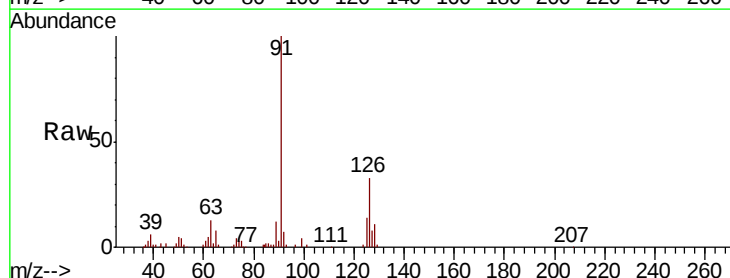
Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

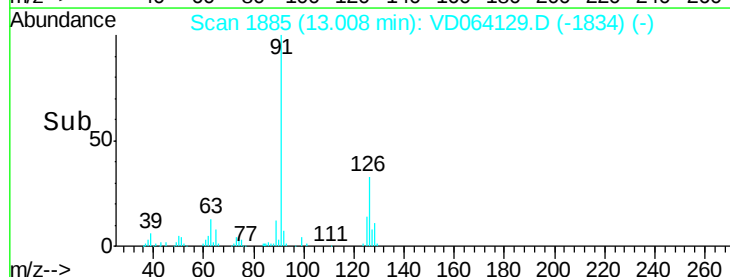
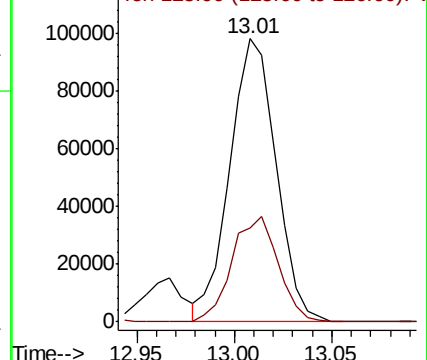
Tgt Ion: 91 Resp: 161401

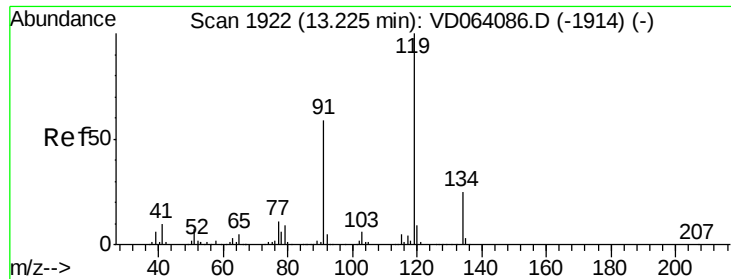
Ion	Ratio	Lower	Upper
91	100		
126	37.0	18.9	56.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

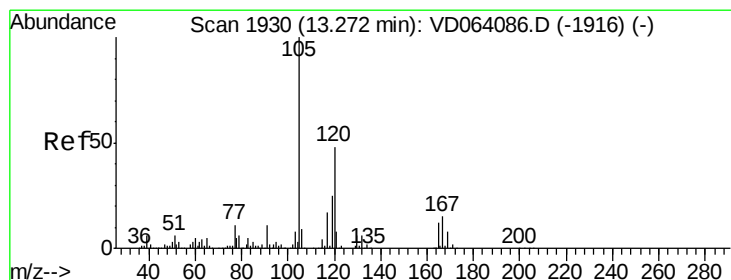
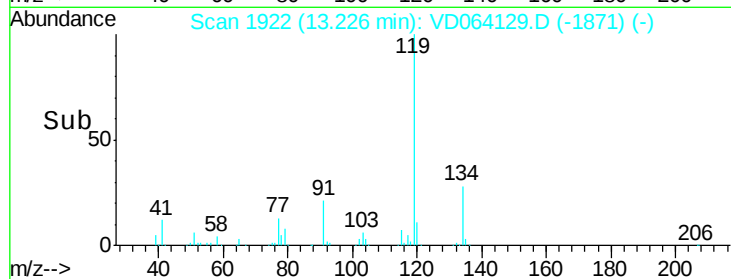
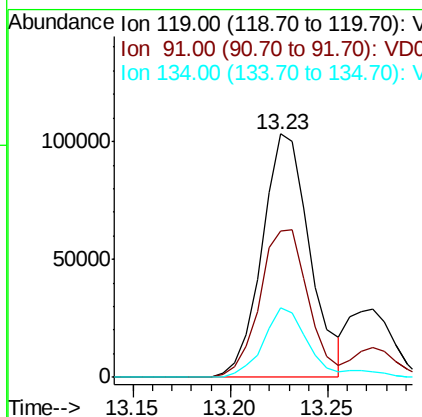
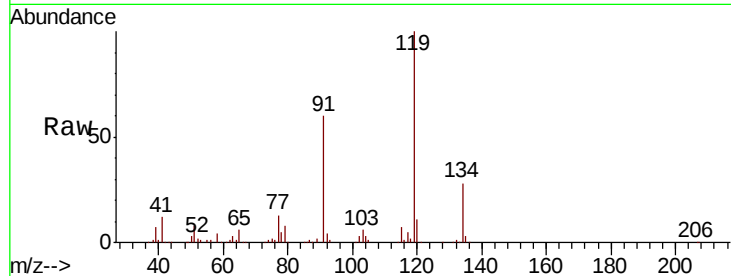




#83
 tert-Butylbenzene
 Concen: 19.380 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

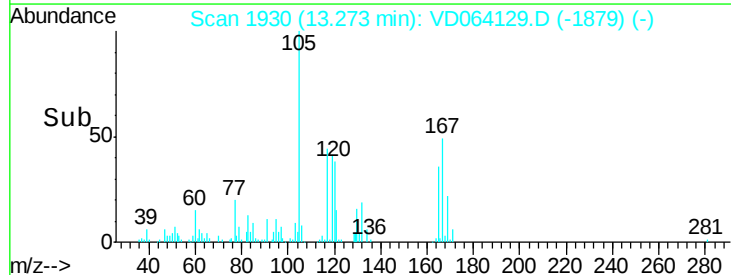
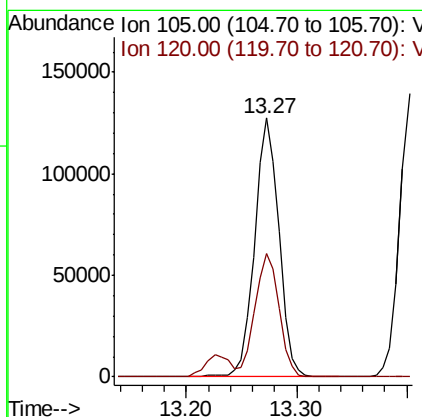
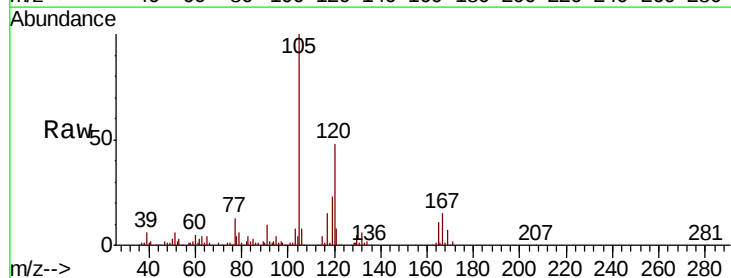
Instrument :
 MSVOA_D
 ClientSampleId :

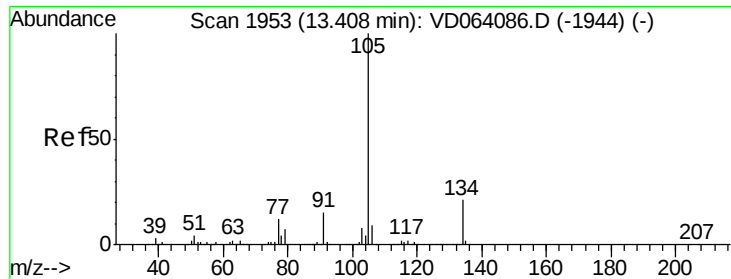
Tot Ion:119 Resp: 175071
 Ion Ratio Lower Upper
 119 100
 91 61.2 28.3 85.0
 134 28.0 12.9 38.6



#84
 1,2,4-Trimethylbenzene
 Concen: 19.473 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion:105 Resp: 196746
 Ion Ratio Lower Upper
 105 100
 120 47.8 24.1 72.4





#85

sec-Butylbenzene

Concen: 19.554 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

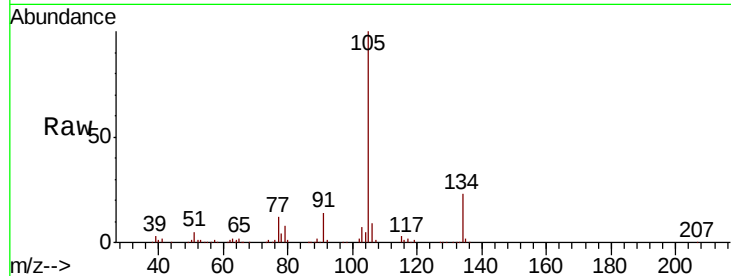
ClientSampleId :

Tot Ion:105 Resp: 242582

Ion Ratio Lower Upper

105 100

134 21.2 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.41

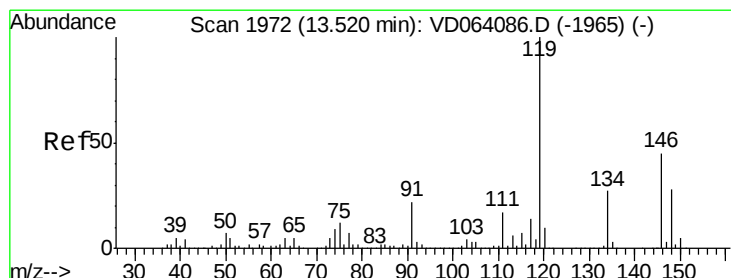
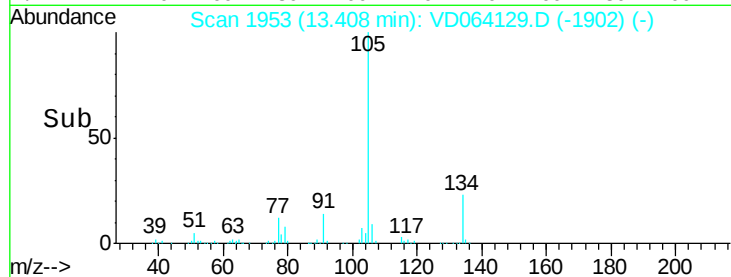
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.293 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

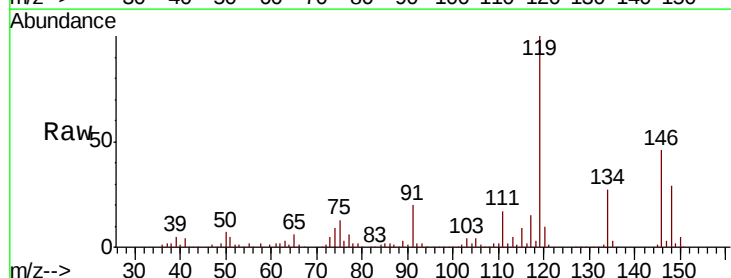
Tgt Ion:119 Resp: 224883

Ion Ratio Lower Upper

119 100

134 27.0 13.6 40.8

91 21.5 10.9 32.6



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

13.52

200000

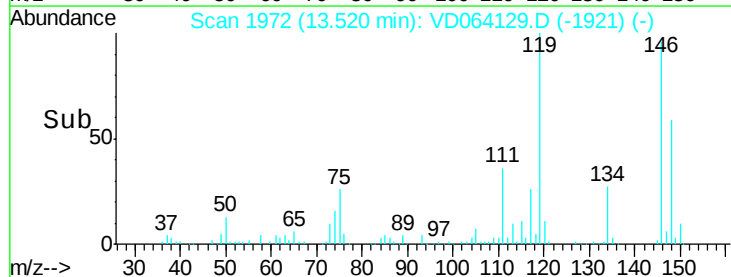
150000

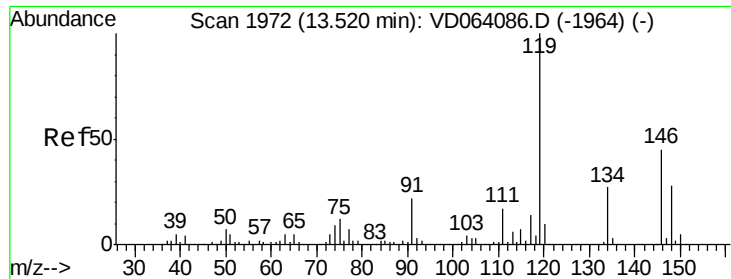
100000

50000

0

Time-->

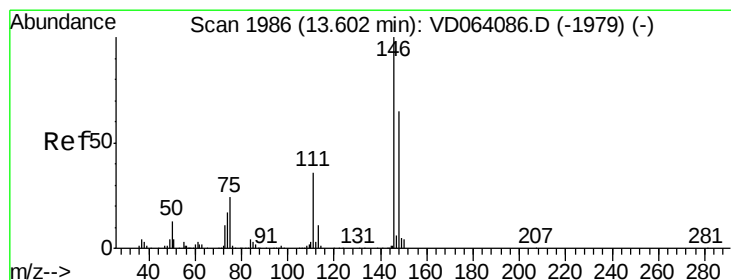
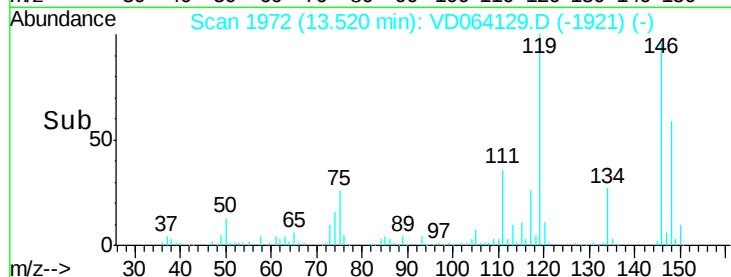
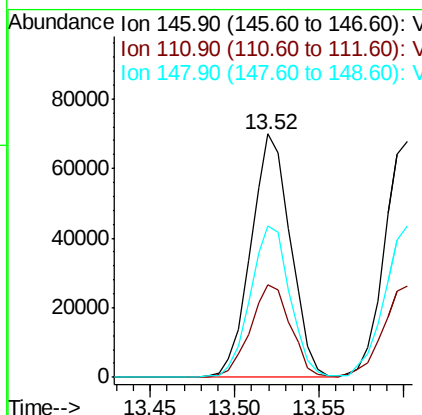
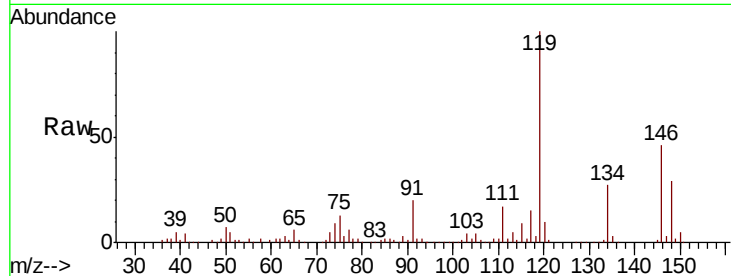




#87
 1,3-Dichlorobenzene
 Concen: 19.567 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

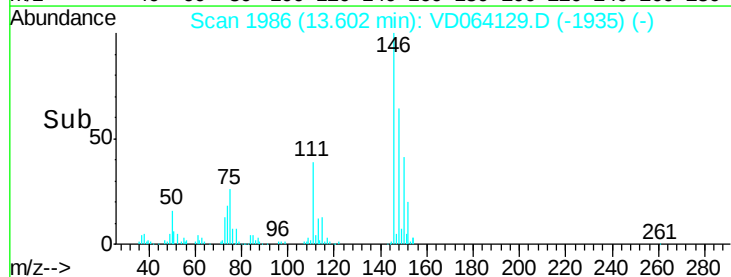
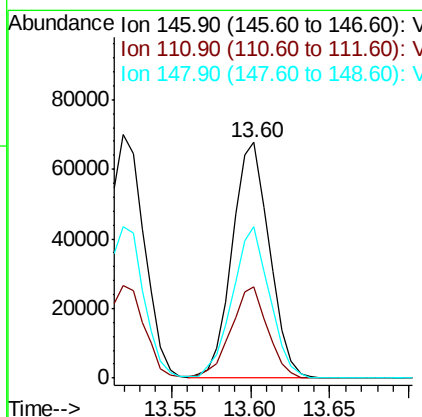
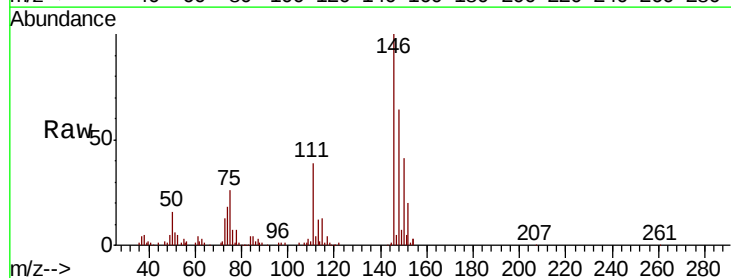
Instrument :
 MSVOA_D
 ClientSampleId :

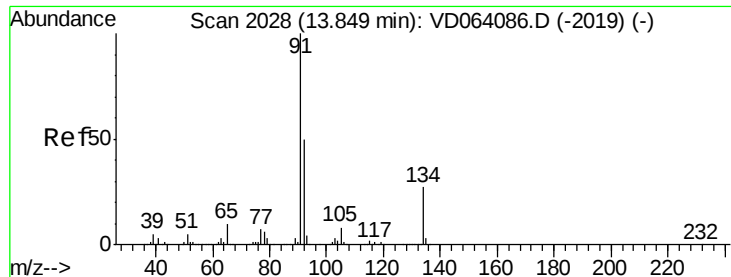
Tot Ion:146 Resp: 113778
 Ion Ratio Lower Upper
 146 100
 111 38.8 18.9 56.9
 148 62.4 32.1 96.3



#88
 1,4-Dichlorobenzene
 Concen: 19.281 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion:146 Resp: 110517
 Ion Ratio Lower Upper
 146 100
 111 38.1 18.4 55.4
 148 64.4 32.4 97.0

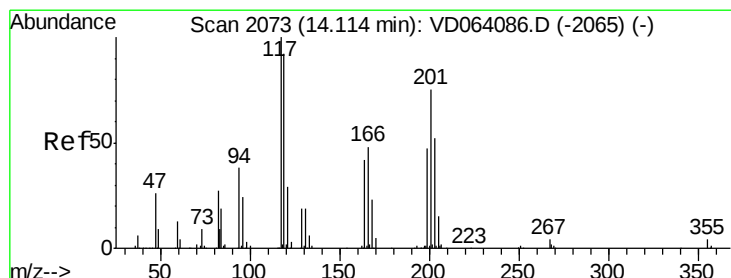
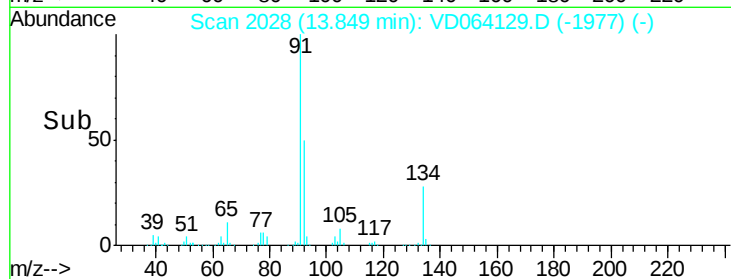
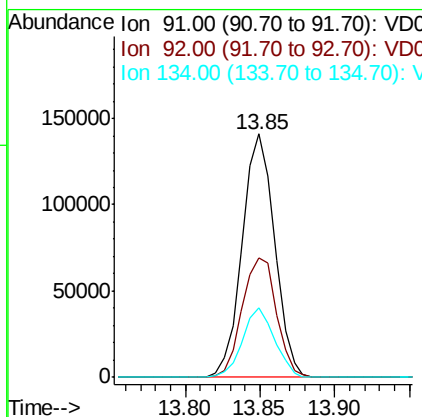
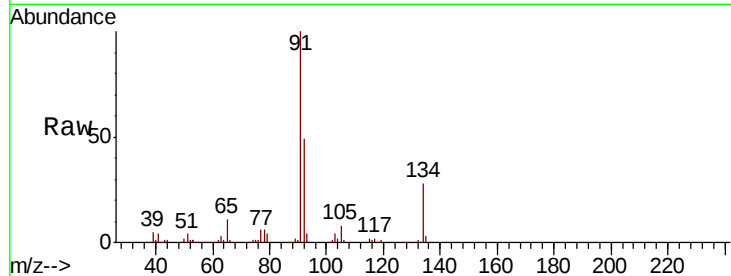




#89
n-Butylbenzene
Concen: 19.698 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

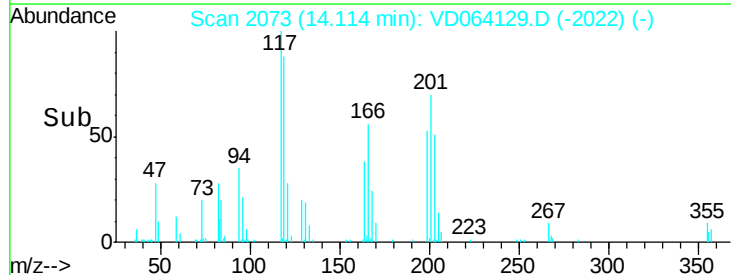
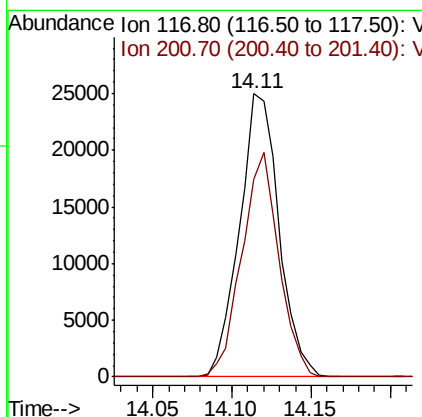
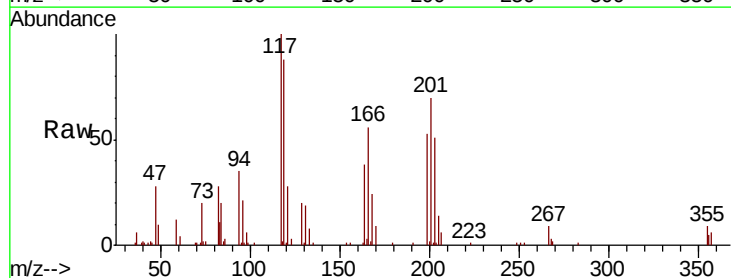
Instrument :
MSVOA_D
ClientSampleId :

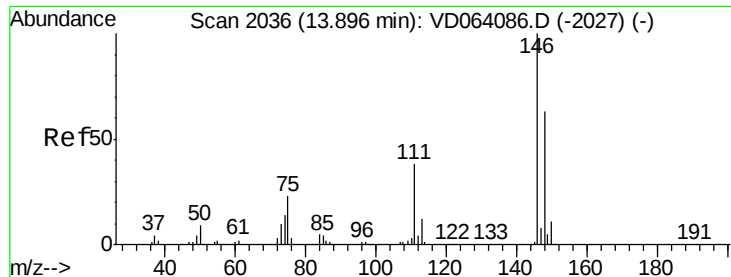
Tot Ion: 91 Resp: 211774
Ion Ratio Lower Upper
91 100
92 52.1 25.6 76.6
134 28.1 14.0 42.0



#90
Hexachloroethane
Concen: 19.843 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VD064129.D
Acq: 31 Oct 2019 13:31

Tgt Ion: 117 Resp: 43303
Ion Ratio Lower Upper
117 100
201 74.1 38.4 115.2

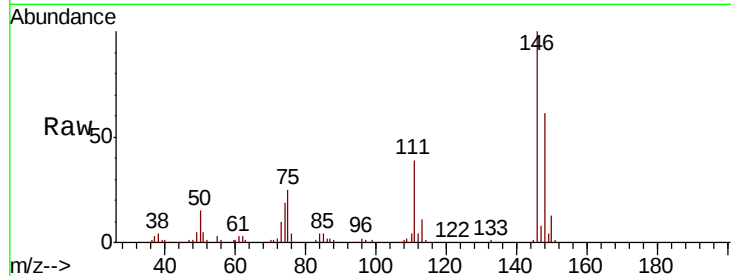




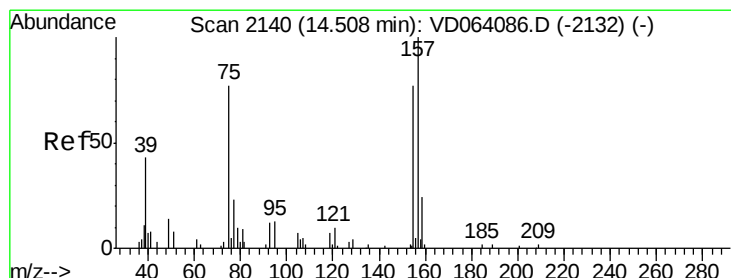
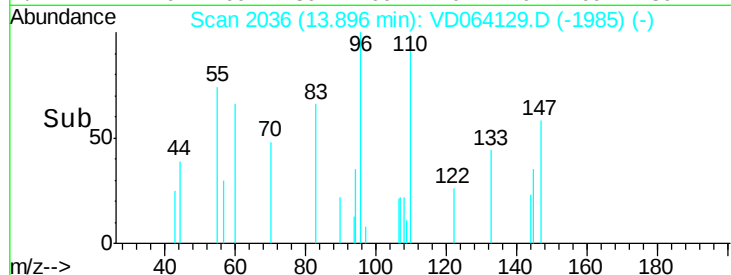
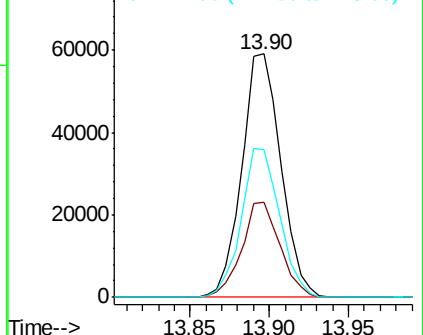
#91
 1,2-Dichlorobenzene
 Concen: 20.199 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.1	57.1
148	60.1	32.1	96.5

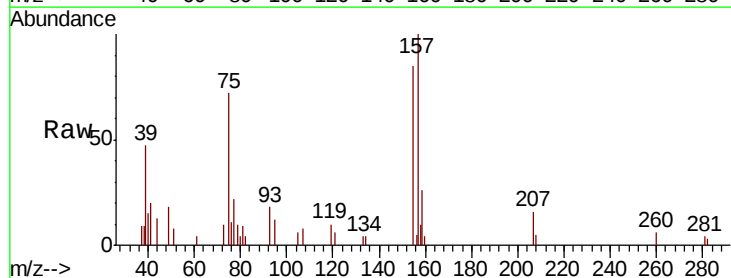


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

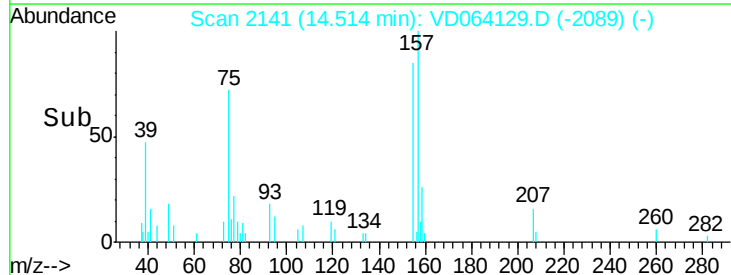
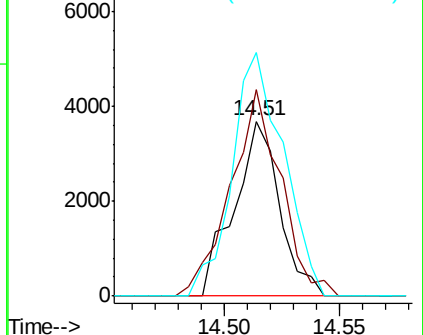


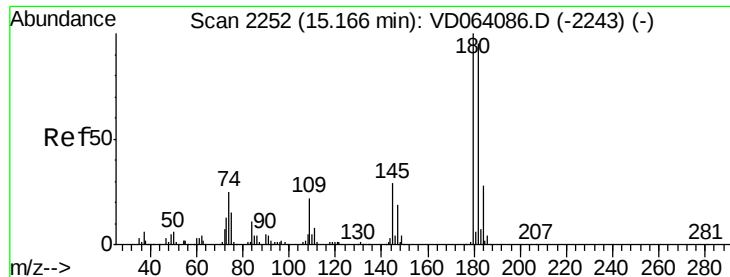
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.276 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. 0.01 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion	Ratio	Lower	Upper
75	100		
155	130.1	56.3	168.9
157	157.5	72.2	216.6



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

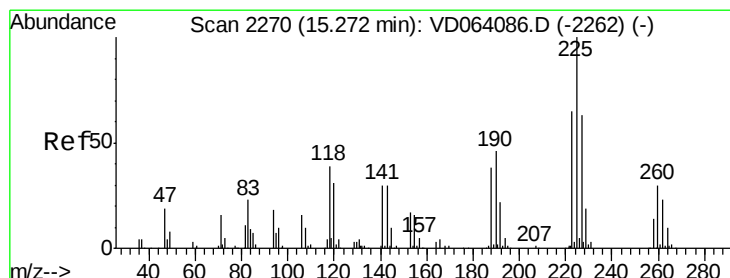
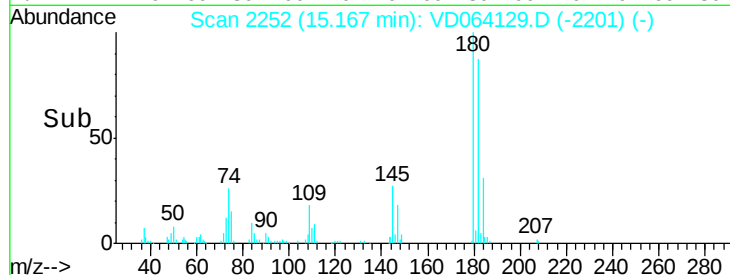
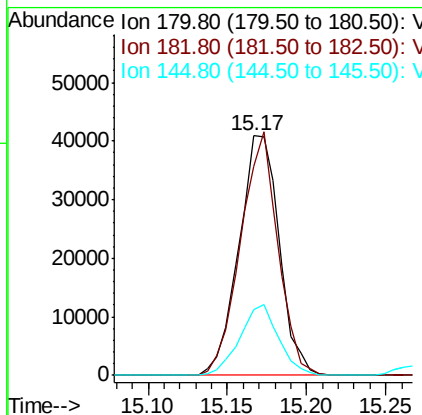
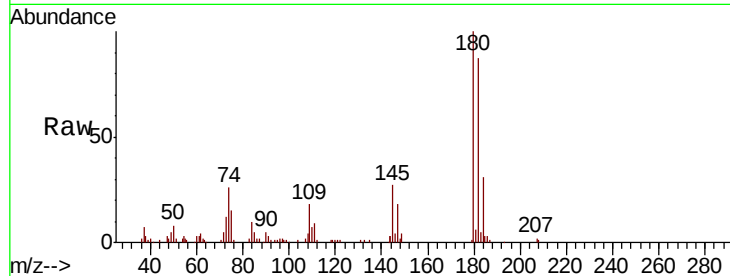




#93
 1,2,4-Trichlorobenzene
 Concen: 20.086 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

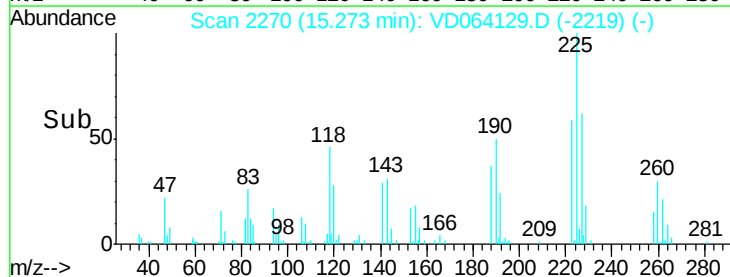
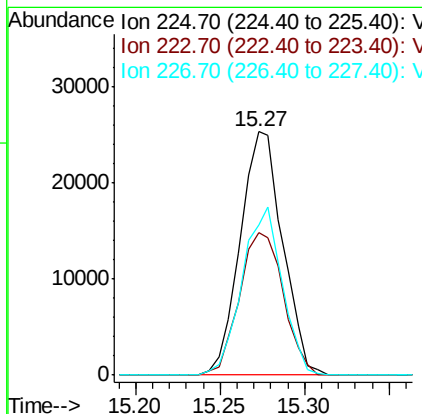
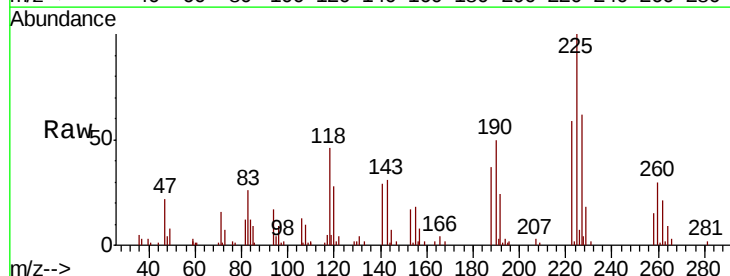
Instrument :
 MSVOA_D
 ClientSampleId :

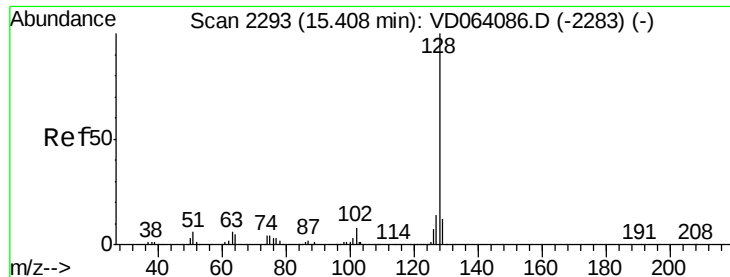
Tot Ion:180 Resp: 72250
 Ion Ratio Lower Upper
 180 100
 182 93.9 46.9 140.7
 145 28.4 14.2 42.6



#94
 Hexachlorobutadiene
 Concen: 21.107 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VD064129.D
 Acq: 31 Oct 2019 13:31

Tgt Ion:225 Resp: 44374
 Ion Ratio Lower Upper
 225 100
 223 60.5 30.8 92.3
 227 64.8 31.7 95.1





#95

Naphthalene

Concen: 19.971 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

Instrument :

MSVOA_D

ClientSampleId :

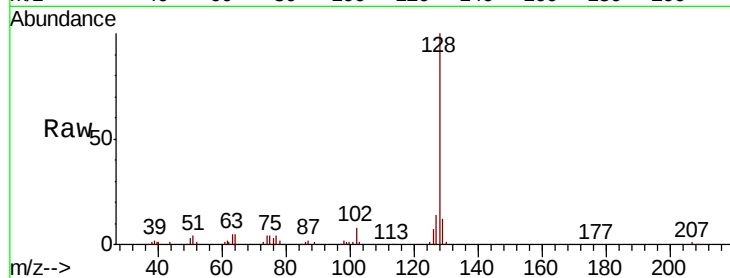
Tot Ion:128 Resp: 117159

Ion Ratio Lower Upper

128 100

127 13.6 10.9 16.3

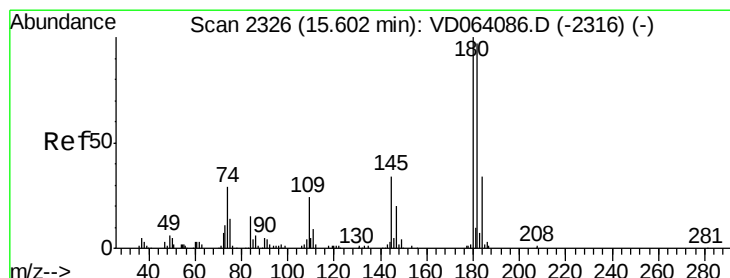
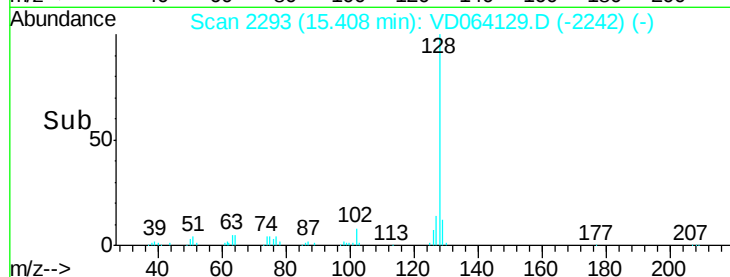
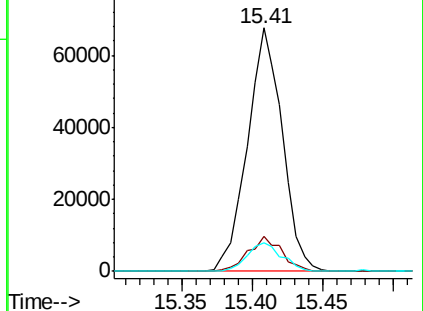
129 11.6 8.8 13.2



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: 20.588 ug/l

RT: 15.60 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VD064129.D

Acq: 31 Oct 2019 13:31

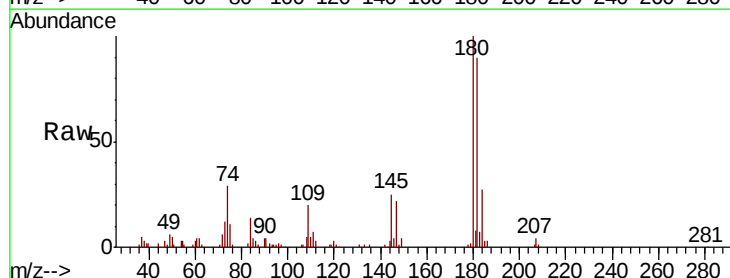
Tgt Ion:180 Resp: 64147

Ion Ratio Lower Upper

180 100

182 89.3 48.4 145.0

145 30.5 16.4 49.4



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

