

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120919\
 Data File : VD064471.D
 Acq On : 09 Dec 2019 13:08
 Operator : VA/SY
 Sample : VD1209SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 02:44:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	417631	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	627325	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	569681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	283641	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	203397	53.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.62%	
35) Dibromofluoromethane	7.92	113	200316	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
50) Toluene-d8	10.34	98	747323	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	
62) 4-Bromofluorobenzene	12.64	95	241955	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	76492	20.214	ug/l	96
3) Chloromethane	2.21	50	99923	20.936	ug/l	99
4) Vinyl Chloride	2.35	62	112241	20.368	ug/l	98
5) Bromomethane	2.76	94	78970	19.378	ug/l	99
6) Chloroethane	2.92	64	73813	20.039	ug/l	99
7) Trichlorofluoromethane	3.27	101	186402	20.347	ug/l	96
8) Diethyl Ether	3.71	74	41701	21.905	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.08	101	82135	20.910	ug/l	98
10) Methyl Iodide	4.29	142	78300	18.876	ug/l	97
11) Tert butyl alcohol	5.24	59	26346	109.489	ug/l #	100
12) 1,1-Dichloroethene	4.06	96	76953	20.443	ug/l	99
13) Acrolein	3.92	56	33604	102.385	ug/l	100
14) Allyl chloride	4.71	41	122716	20.889	ug/l	99
15) Acrylonitrile	5.43	53	92065	110.592	ug/l	99
16) Acetone	4.16	43	85455	111.867	ug/l	96
17) Carbon Disulfide	4.40	76	240521	20.174	ug/l	98
18) Methyl Acetate	4.72	43	53591	24.051	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	188729	21.857	ug/l	94
20) Methylene Chloride	4.96	84	91225	20.917	ug/l	95
21) trans-1,2-Dichloroethene	5.47	96	89649	21.054	ug/l	97
22) Diisopropyl ether	6.37	45	248882	21.460	ug/l	100
23) Vinyl Acetate	6.31	43	740528	108.311	ug/l	100
24) 1,1-Dichloroethane	6.26	63	148048	21.227	ug/l	96
25) 2-Butanone	7.22	43	117179	108.468	ug/l	97
26) 2,2-Dichloropropane	7.21	77	130314	21.485	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	98433	21.204	ug/l	98
28) Bromochloromethane	7.54	49	42477	17.821	ug/l	95
29) Tetrahydrofuran	7.57	42	79722	115.990	ug/l	98
30) Chloroform	7.71	83	154835	21.436	ug/l	98
31) Cyclohexane	7.98	56	141167	20.474	ug/l	97
32) 1,1,1-Trichloroethane	7.90	97	140631	21.000	ug/l	100
36) 1,1-Dichloropropene	8.11	75	119934	20.213	ug/l	99
37) Ethyl Acetate	7.30	43	53959	21.431	ug/l	99
38) Carbon Tetrachloride	8.09	117	125670	20.067	ug/l	96

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 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	146682	19.929	ug/l	97
40) Benzene	8.35	78	329482	19.993	ug/l	99
41) Methacrylonitrile	7.53	41	27959	19.364	ug/l #	80
42) 1,2-Dichloroethane	8.43	62	102652	21.359	ug/l	98
43) Isopropyl Acetate	8.46	43	104777	21.165	ug/l	99
44) Trichloroethene	9.11	130	100157	20.176	ug/l	89
45) 1,2-Dichloropropane	9.39	63	82718	20.987	ug/l	94
46) Dibromomethane	9.48	93	47083	21.166	ug/l	99
47) Bromodichloromethane	9.66	83	119718	20.945	ug/l	99
48) Methyl methacrylate	9.46	41	50473	22.281	ug/l	94
49) 1,4-Dioxane	9.46	88	11328	412.387	ug/l #	93
51) 4-Methyl-2-Pentanone	10.23	43	264582	108.019	ug/l	99
52) Toluene	10.40	92	214171	19.941	ug/l	99
53) t-1,3-Dichloropropene	10.62	75	114983	21.108	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	134260	20.747	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	65662	21.557	ug/l	92
56) Ethyl methacrylate	10.66	69	81272	20.920	ug/l	98
57) 1,3-Dichloropropane	10.94	76	111486	21.501	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	174210	112.488	ug/l	98
59) 2-Hexanone	10.98	43	178660	105.117	ug/l	100
60) Dibromochloromethane	11.14	129	85223	20.636	ug/l	98
61) 1,2-Dibromoethane	11.25	107	64049	21.060	ug/l	99
64) Tetrachloroethene	10.87	164	87137	20.058	ug/l	97
65) Chlorobenzene	11.67	112	230234	19.377	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	88915	20.215	ug/l	97
67) Ethyl Benzene	11.75	91	400545	18.947	ug/l	99
68) m/p-Xylenes	11.85	106	313844	38.936	ug/l	99
69) o-Xylene	12.18	106	145254	19.512	ug/l	99
70) Styrene	12.20	104	255144	19.723	ug/l	98
71) Bromoform	12.36	173	54082	20.552	ug/l #	97
73) Isopropylbenzene	12.48	105	390535	19.144	ug/l	100
74) N-amyl acetate	12.29	43	94226	20.351	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	69363	20.561	ug/l	96
76) 1,2,3-Trichloropropane	12.79	75	89428	38.339	ug/l #	100
77) Bromobenzene	12.77	156	99486	19.749	ug/l	96
78) n-propylbenzene	12.83	91	450589	19.144	ug/l	100
79) 2-Chlorotoluene	12.91	91	248146	19.160	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	317813	19.064	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	22253	20.802	ug/l	98
82) 4-Chlorotoluene	13.01	91	267838	19.532	ug/l	99
83) tert-Butylbenzene	13.23	119	274451	18.937	ug/l	100
84) 1,2,4-Trimethylbenzene	13.27	105	324803	19.376	ug/l	99
85) sec-Butylbenzene	13.41	105	382433	19.226	ug/l	98
86) p-Isopropyltoluene	13.52	119	349457	18.609	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	183462	19.188	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	185097	19.608	ug/l	99
89) n-Butylbenzene	13.85	91	324088	19.004	ug/l	99
90) Hexachloroethane	14.12	117	66084	18.814	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	161643	19.782	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.52	75	11204	19.560	ug/l	96

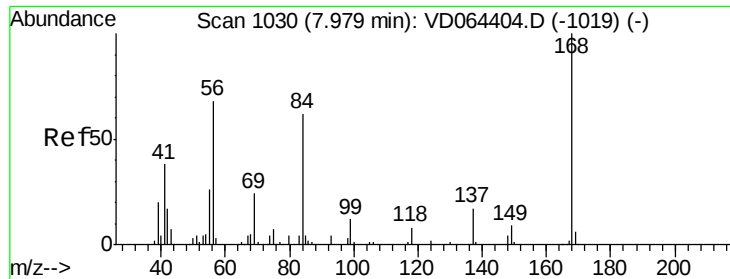
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	123068	19.666	ug/l	98
94) Hexachlorobutadiene	15.28	225	71144	18.415	ug/l	97
95) Naphthalene	15.41	128	204401	19.572	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	106678	19.970	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

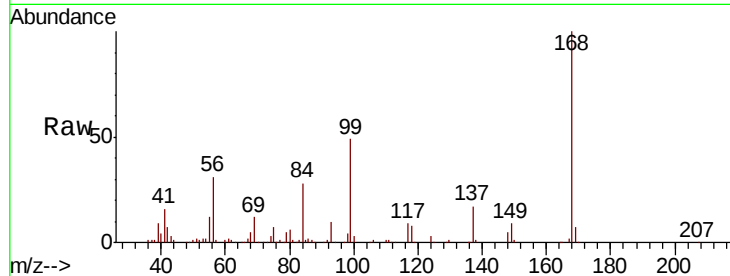
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 417631

Ion Ratio Lower Upper

168 100

99 49.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

100000

50000

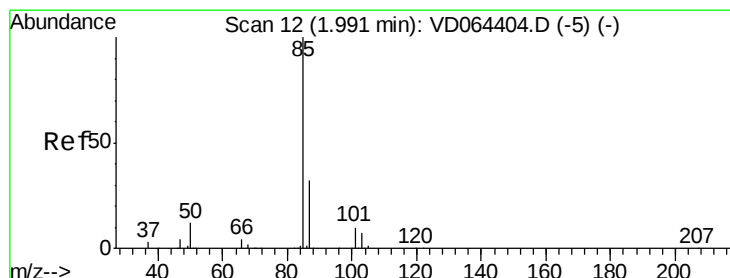
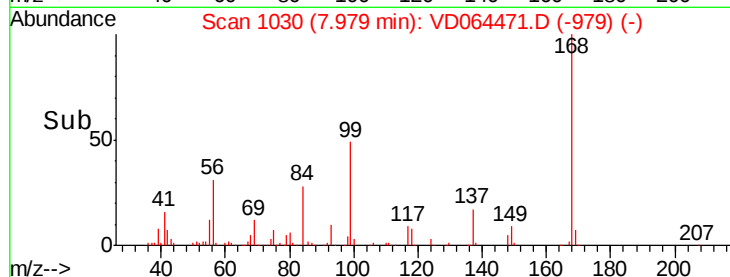
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 20.214 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064471.D

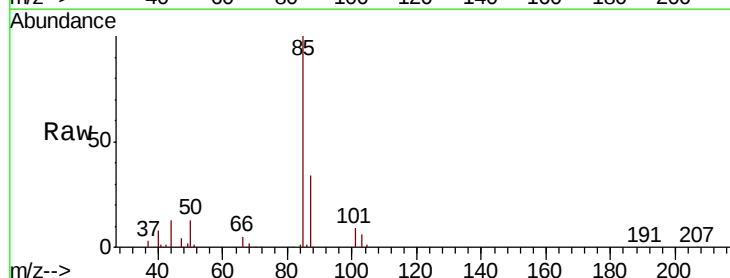
Acq: 09 Dec 2019 13:08

Tgt Ion: 85 Resp: 76492

Ion Ratio Lower Upper

85 100

87 34.4 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

60000

50000

40000

30000

20000

10000

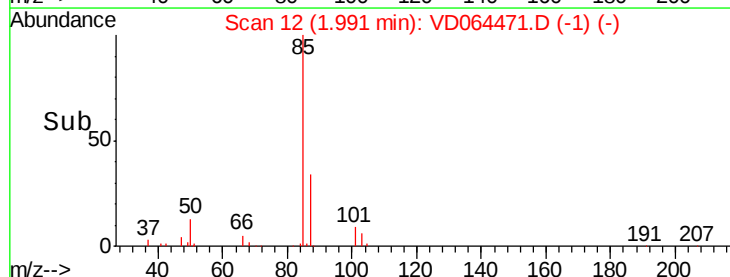
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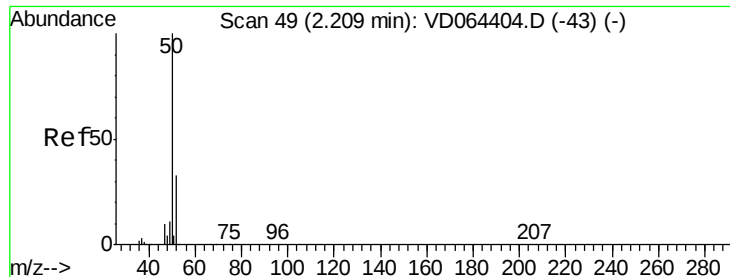
1.95

2.00

2.05

Time-->





#3

Chloromethane

Concen: 20.936 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

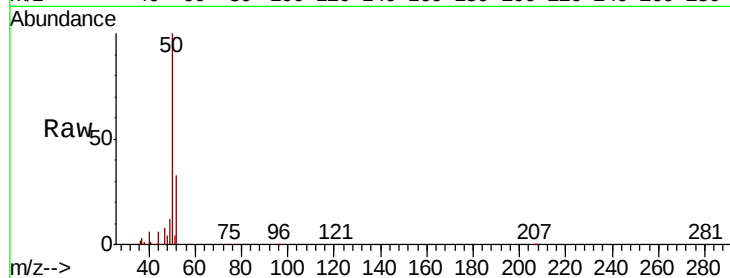
ClientSampleId :

Tot Ion: 50 Resp: 99923

Ion Ratio Lower Upper

50 100

52 32.8 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

80000

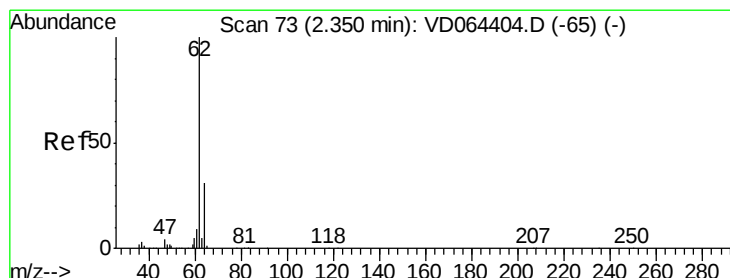
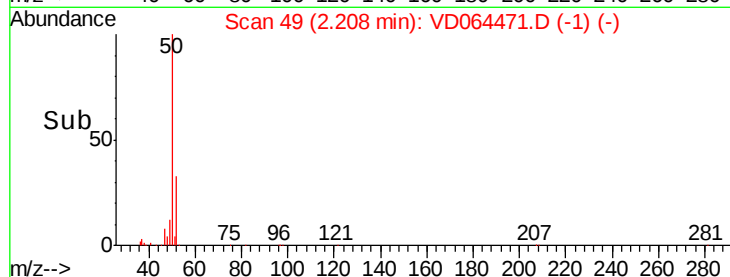
60000

40000

20000

0

Time--> 2.10 2.20 2.30



#4

Vinyl Chloride

Concen: 20.368 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064471.D

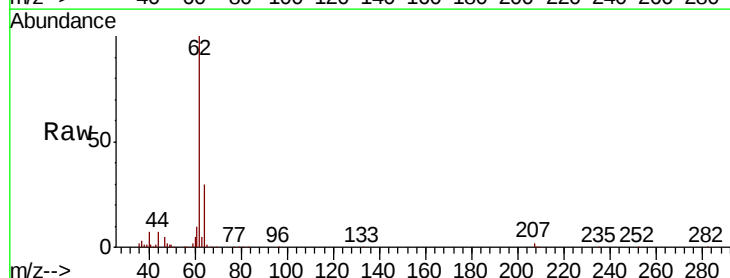
Acq: 09 Dec 2019 13:08

Tgt Ion: 62 Resp: 112241

Ion Ratio Lower Upper

62 100

64 30.1 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.35

80000

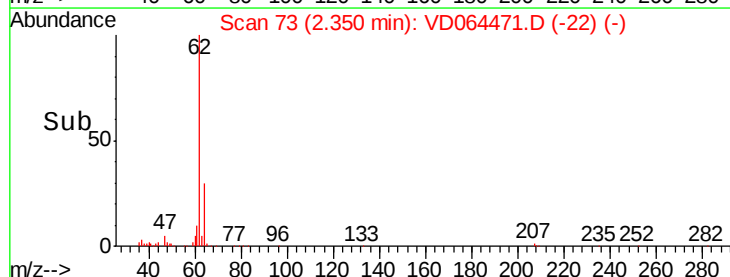
60000

40000

20000

0

Time--> 2.30 2.35 2.40





#5

Bromomethane

Concen: 19.378 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

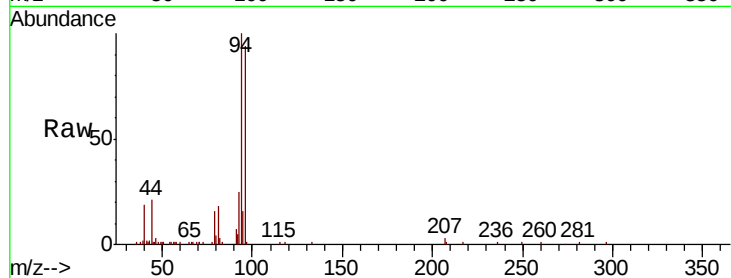
ClientSampleId :

Tot Ion: 94 Resp: 78970

Ion Ratio Lower Upper

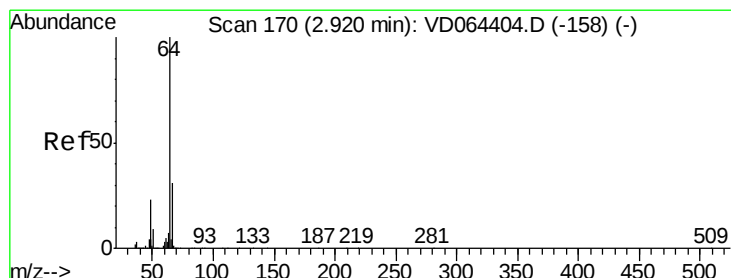
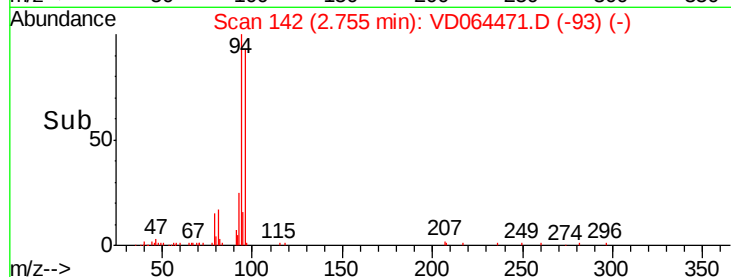
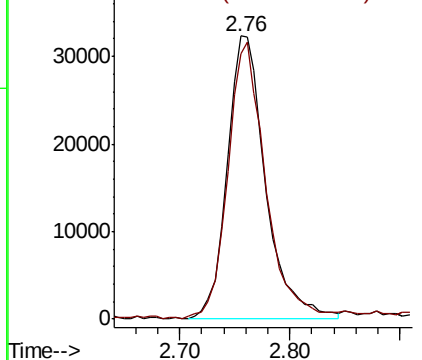
94 100

96 92.8 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 20.039 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD064471.D

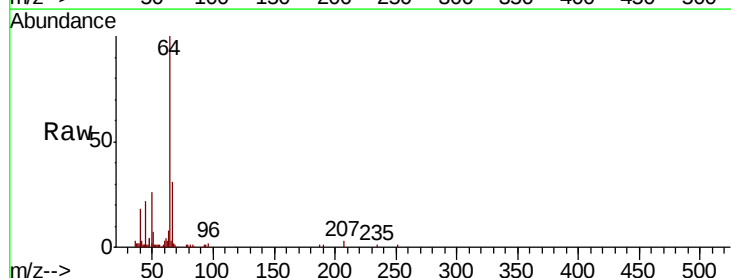
Acq: 09 Dec 2019 13:08

Tgt Ion: 64 Resp: 73813

Ion Ratio Lower Upper

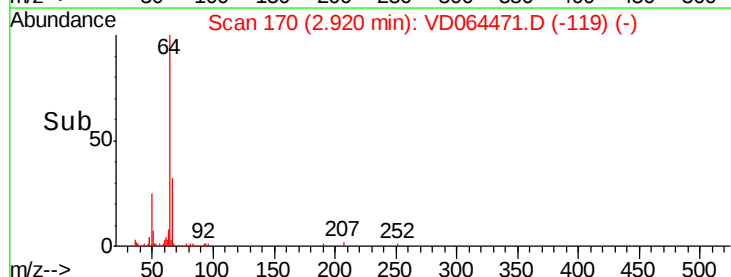
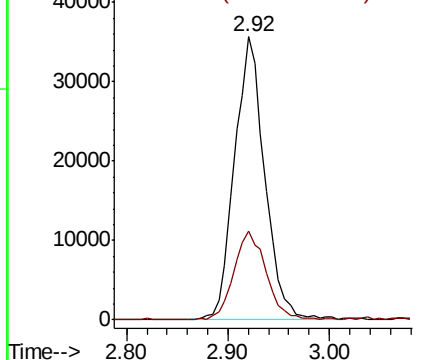
64 100

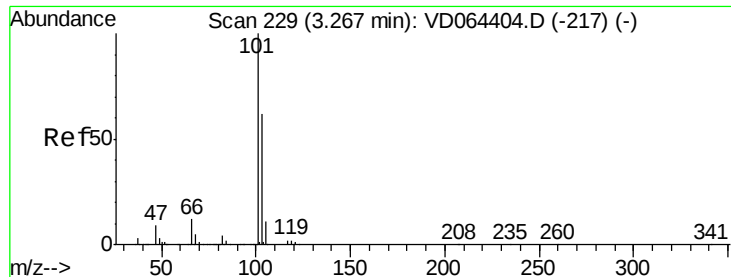
66 31.4 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



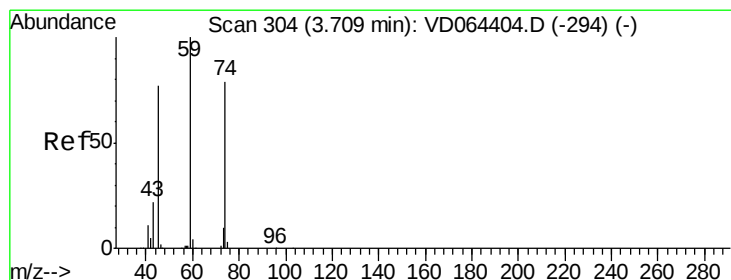
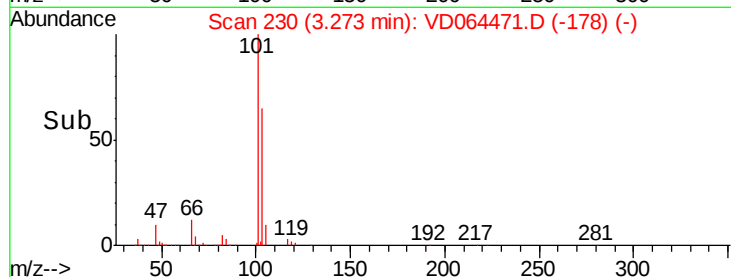
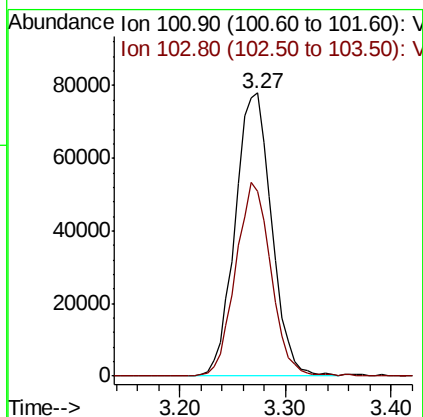
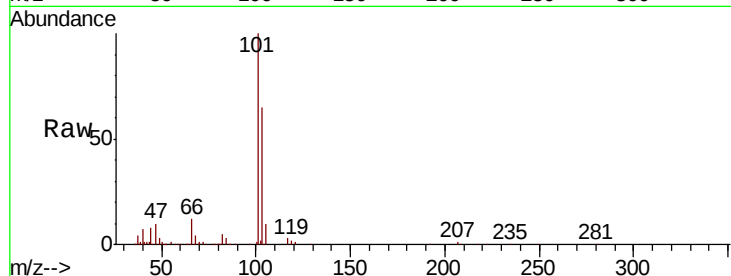


#7

Trichlorofluoromethane
 Concen: 20.347 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Instrument :
 MSVOA_D
 ClientSampleId :

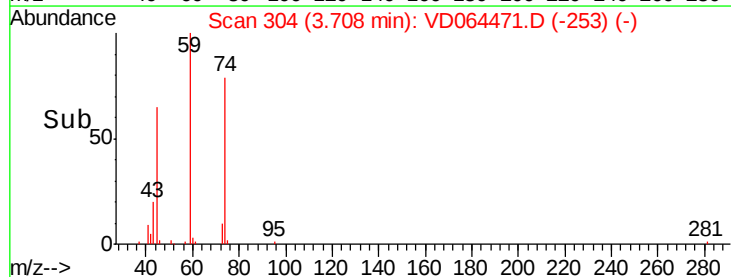
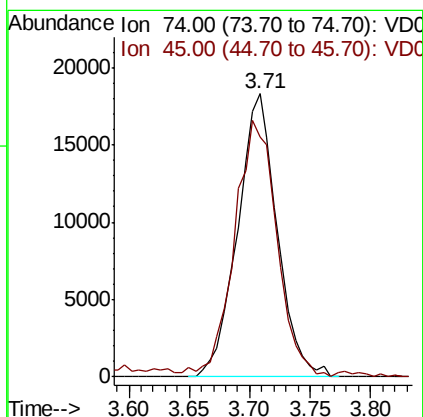
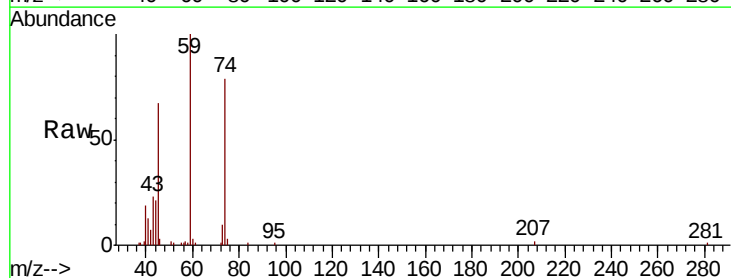
Tot Ion:101 Resp: 186402
 Ion Ratio Lower Upper
 101 100
 103 65.4 49.8 74.6

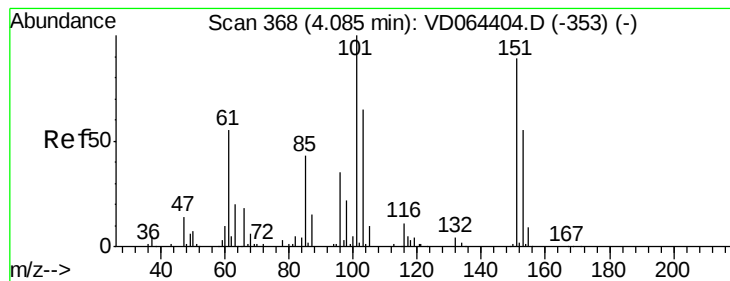


#8

Diethyl Ether
 Concen: 21.905 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Tgt Ion: 74 Resp: 41701
 Ion Ratio Lower Upper
 74 100
 45 97.6 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.910 ug/l

RT: 4.08 min Scan# 368

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

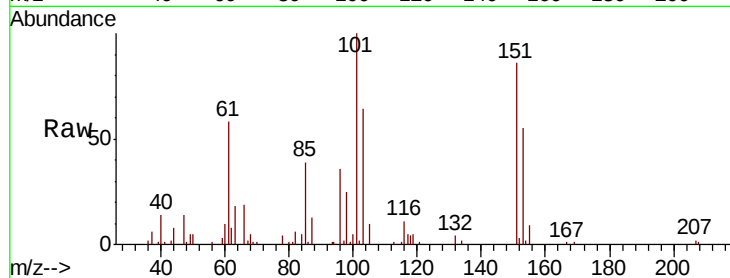
Tot Ion:101 Resp: 82135

Ion Ratio Lower Upper

101 100

85 42.4 34.8 52.2

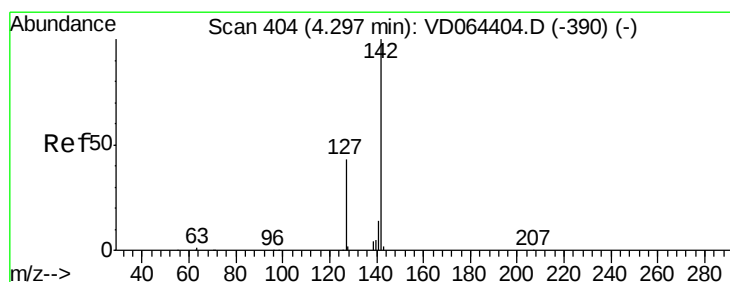
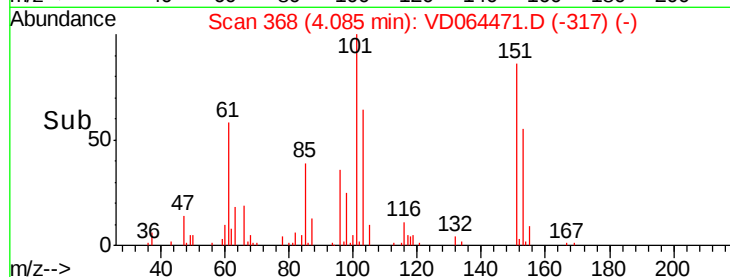
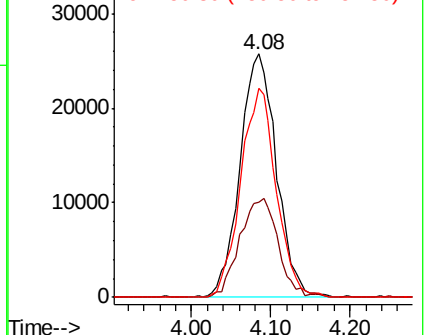
151 83.6 68.8 103.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 18.876 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

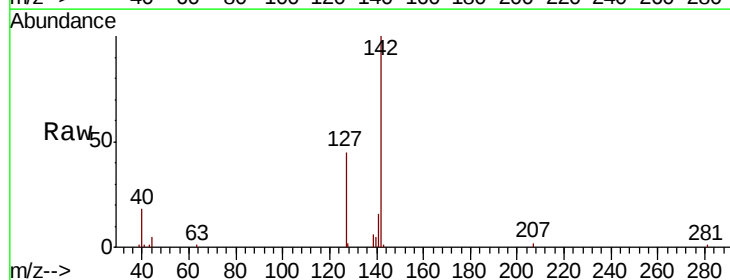
Tgt Ion:142 Resp: 78300

Ion Ratio Lower Upper

142 100

127 46.8 35.3 52.9

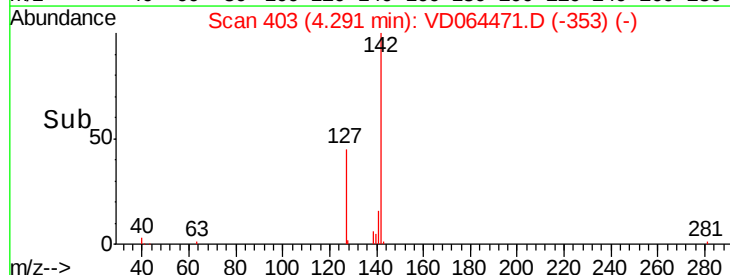
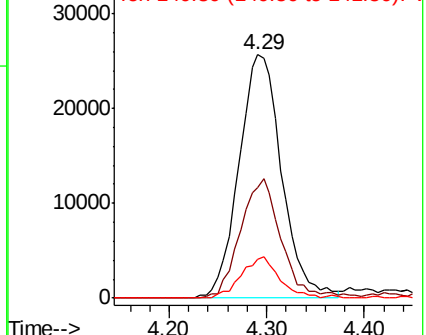
141 14.9 11.6 17.4

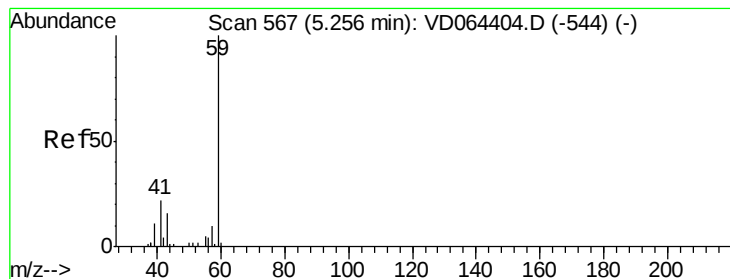


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



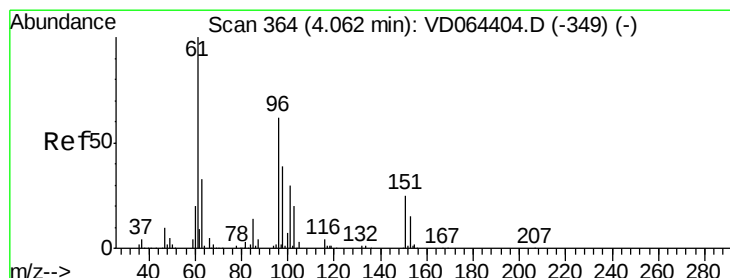
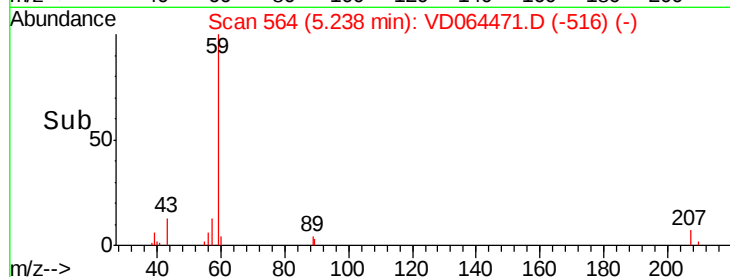
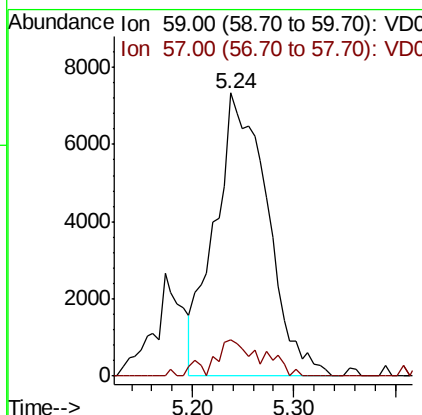
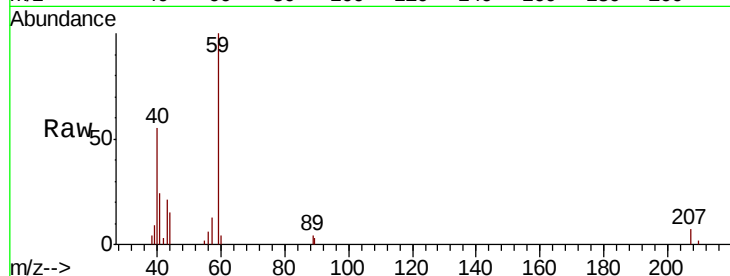


#11

Tert butyl alcohol
Concen: 109.489 ug/l
RT: 5.24 min Scan# 564
Delta R.T. -0.02 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :

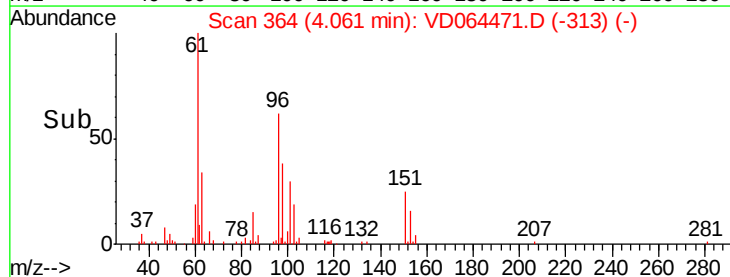
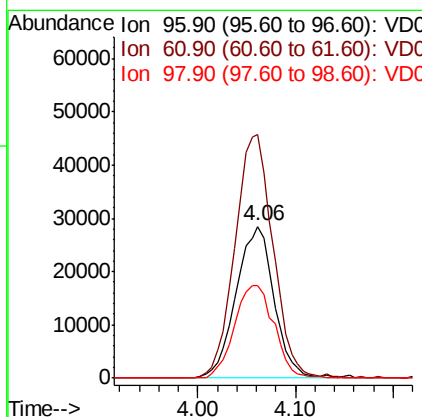
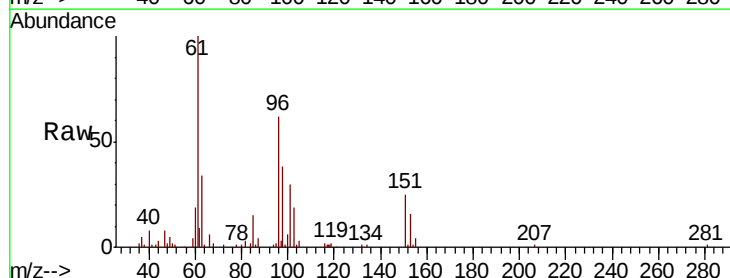
Tot Ion: 59 Resp: 26346
Ion Ratio Lower Upper
59 100
57 7.6 0.0 0.0#

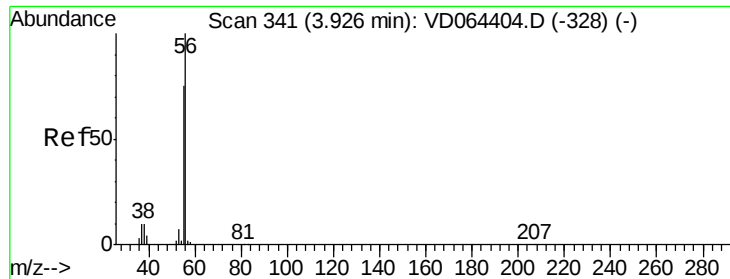


#12

1,1-Dichloroethene
Concen: 20.443 ug/l
RT: 4.06 min Scan# 364
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 96 Resp: 76953
Ion Ratio Lower Upper
96 100
61 160.5 128.2 192.4
98 60.8 50.4 75.6





#13

Acrolein

Concen: 102.385 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

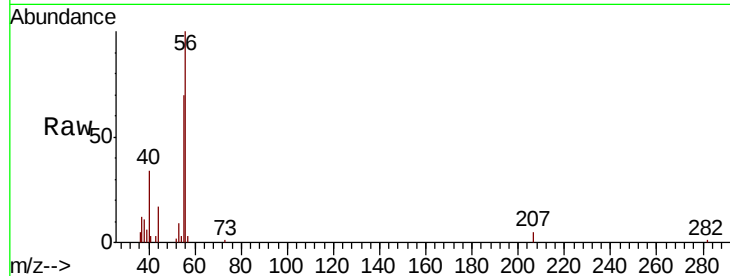
ClientSampled :

Tot Ion: 56 Resp: 33604

Ion Ratio Lower Upper

56 100

55 71.0 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

15000

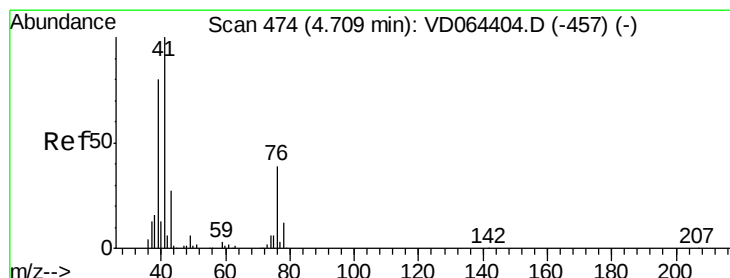
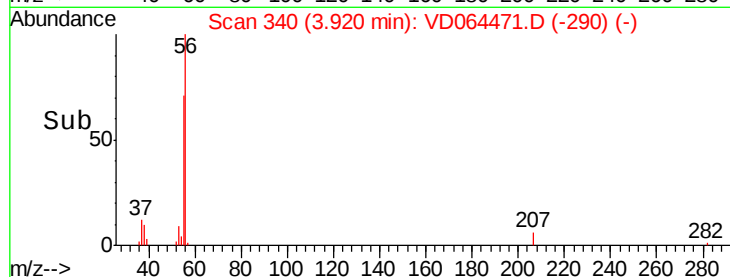
10000

5000

0

3.92

Time--> 3.80 3.85 3.90 3.95 4.00



#14

Allyl chloride

Concen: 20.889 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

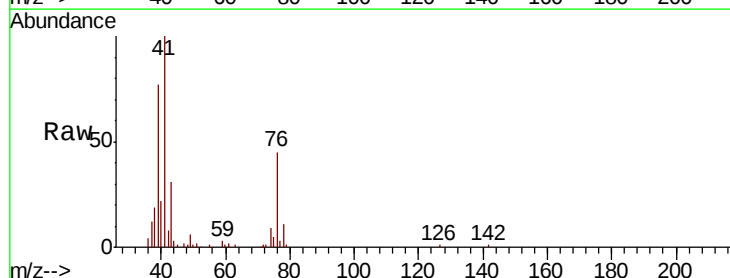
Tgt Ion: 41 Resp: 122716

Ion Ratio Lower Upper

41 100

39 78.4 62.1 93.1

76 38.1 29.8 44.8



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

50000

40000

30000

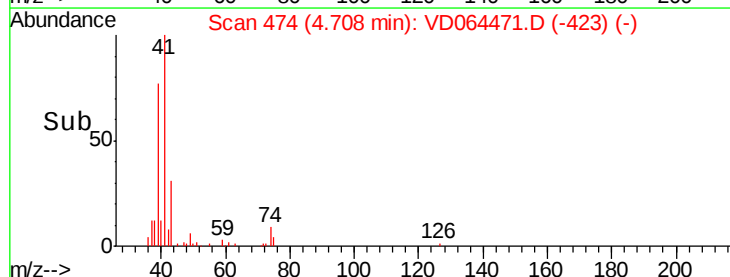
20000

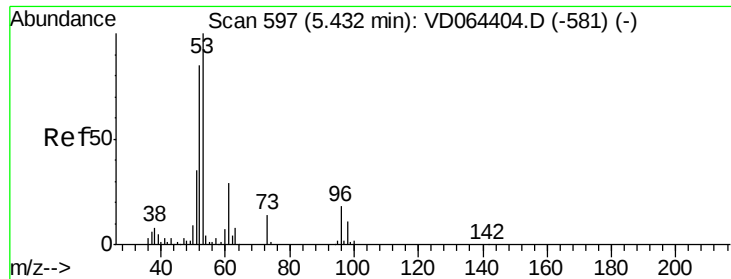
10000

0

4.71

Time--> 4.60 4.70 4.80





#15

Acrylonitrile

Concen: 110.592 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

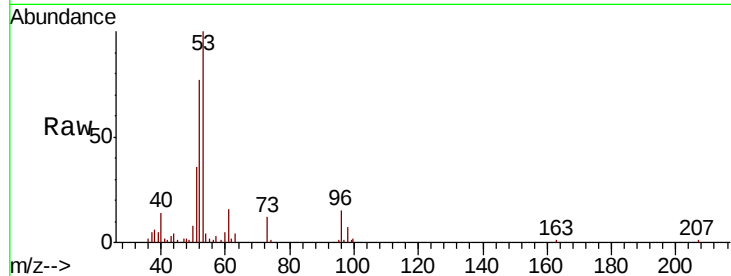
Tot Ion: 53 Resp: 92065

Ion Ratio Lower Upper

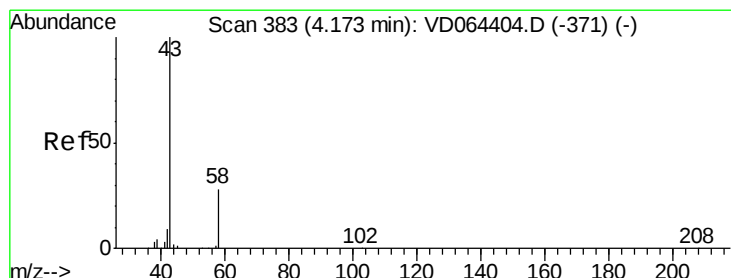
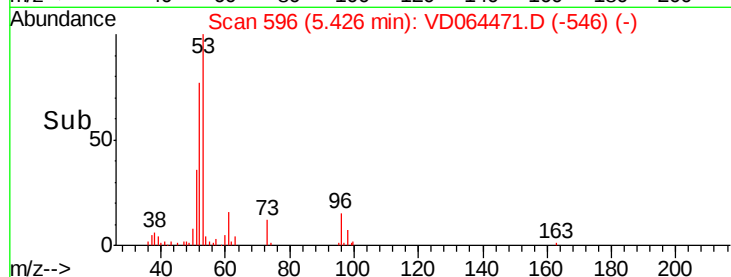
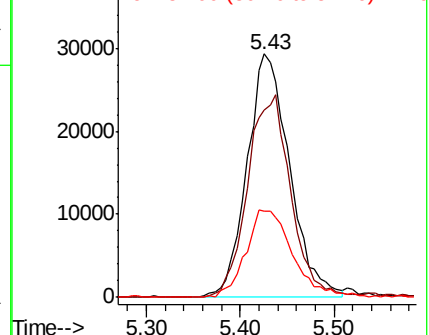
53 100

52 84.0 67.9 101.9

51 39.2 30.6 45.8



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



#16

Acetone

Concen: 111.867 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD064471.D

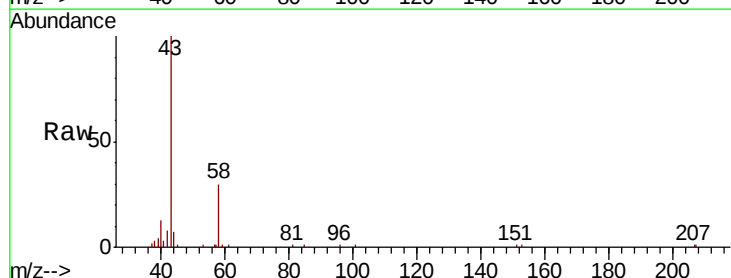
Acq: 09 Dec 2019 13:08

Tgt Ion: 43 Resp: 85455

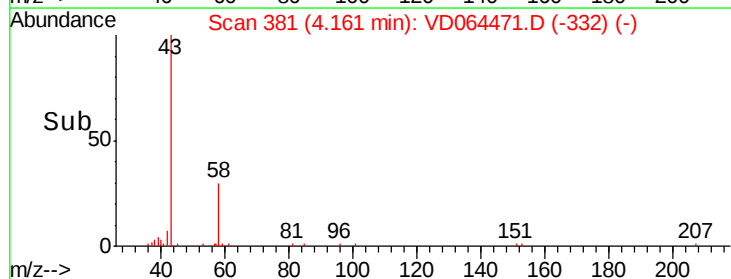
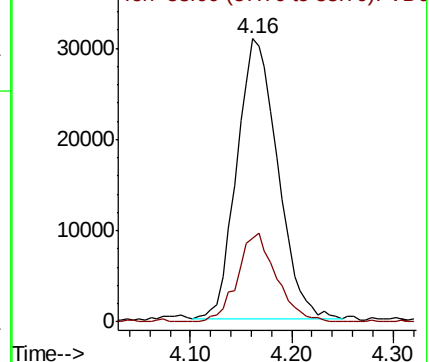
Ion Ratio Lower Upper

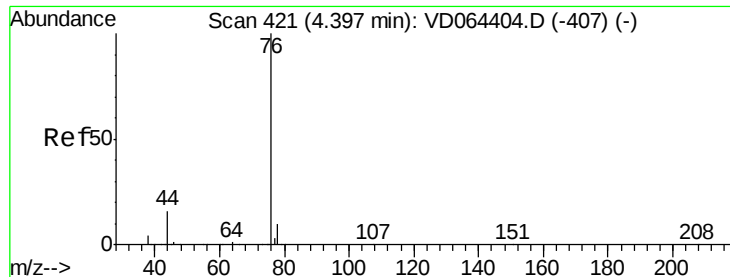
43 100

58 30.1 22.6 33.8



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

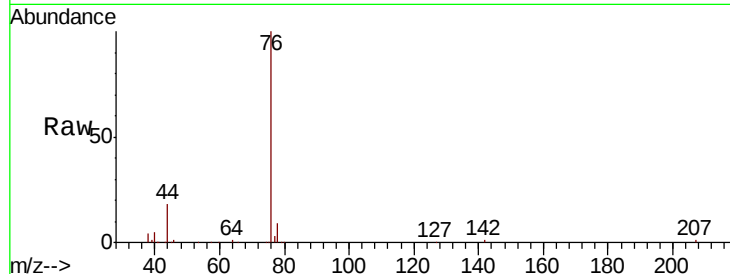




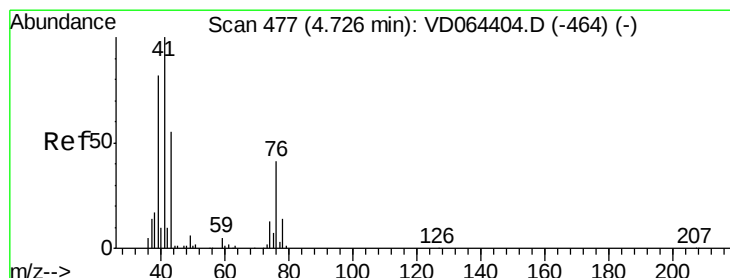
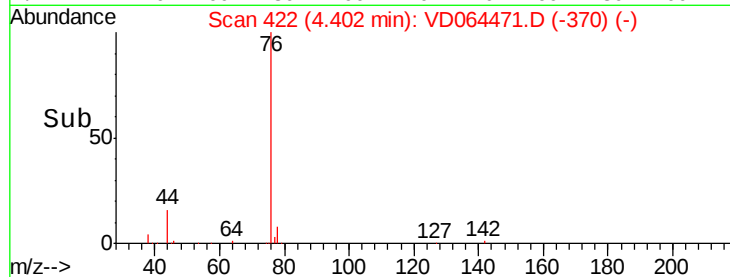
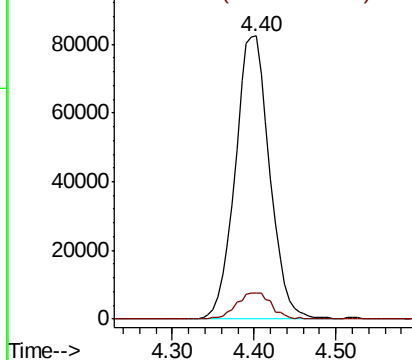
#17
Carbon Disulfide
Concen: 20.174 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 76 Resp: 240521
Ion Ratio Lower Upper
76 100
78 9.2 7.8 11.8

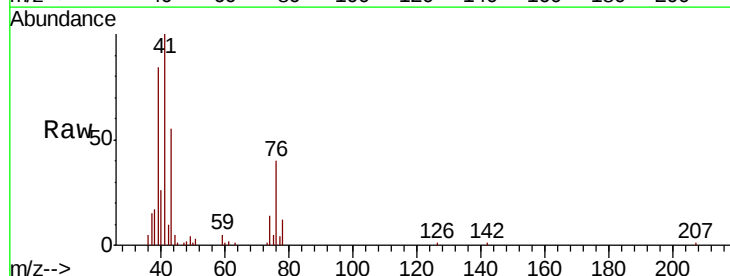


Abundance Ion 75.90 (75.60 to 76.60): VDC
Ion 77.90 (77.60 to 78.60): VDC

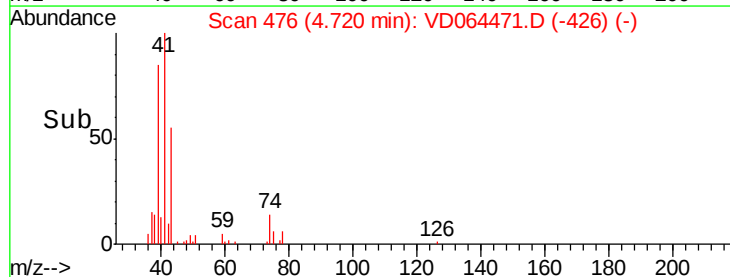
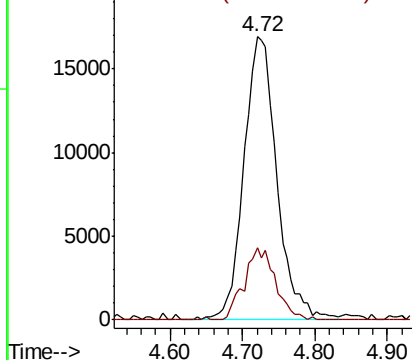


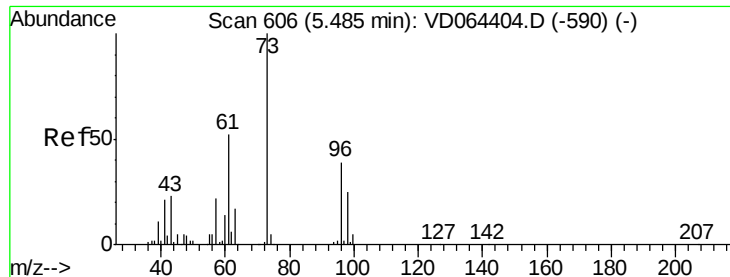
#18
Methyl Acetate
Concen: 24.051 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 43 Resp: 53591
Ion Ratio Lower Upper
43 100
74 24.1 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 74.00 (73.70 to 74.70): VDC

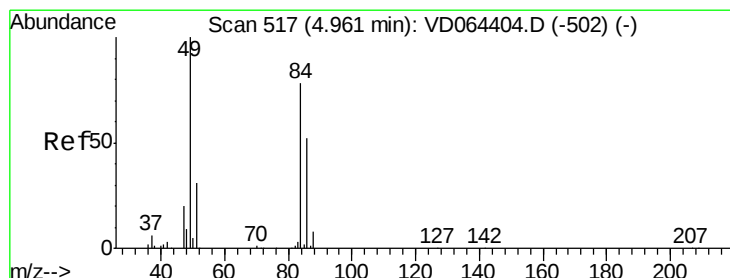
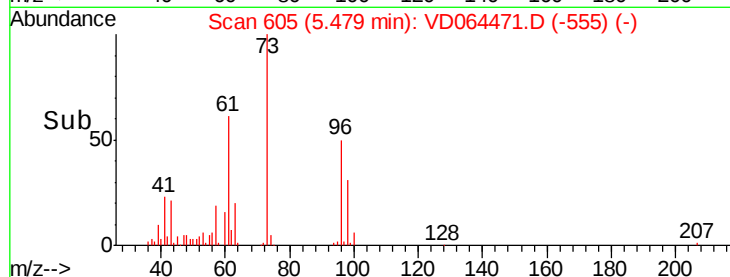
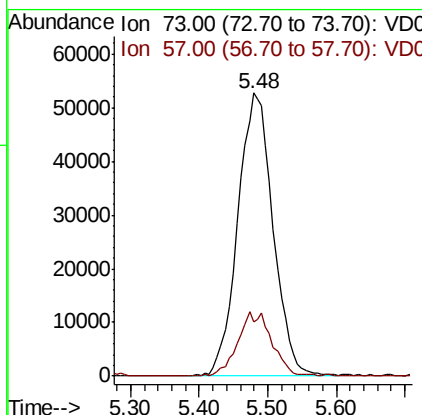
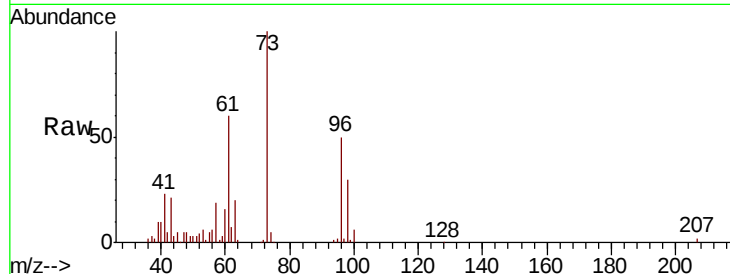




#19
Methyl tert-butyl Ether
Concen: 21.857 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

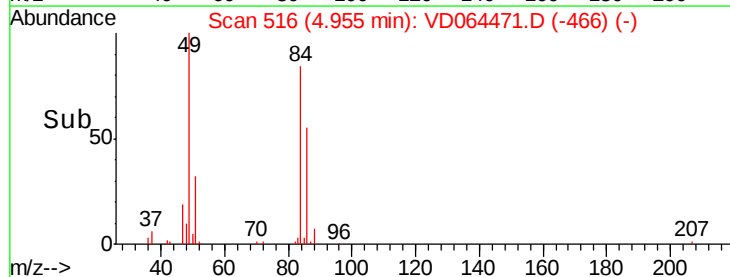
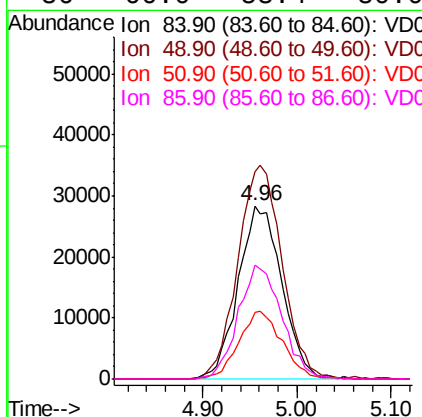
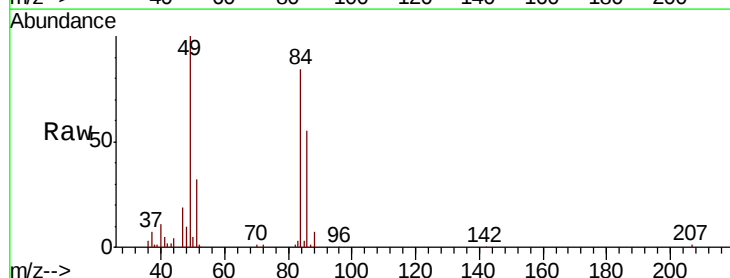
Instrument :
MSVOA_D
ClientSampleId :

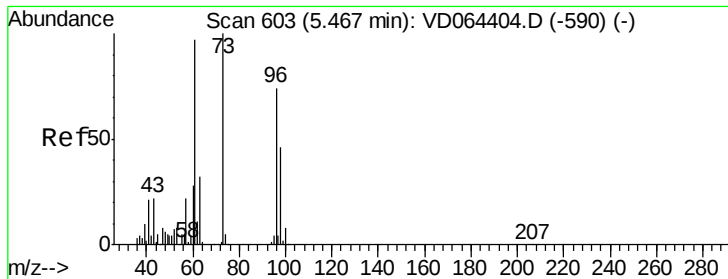
Tot Ion: 73 Resp: 188729
Ion Ratio Lower Upper
73 100
57 19.2 17.6 26.4



#20
Methylene Chloride
Concen: 20.917 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 84 Resp: 91225
Ion Ratio Lower Upper
84 100
49 119.8 102.6 153.8
51 38.3 32.0 48.0
86 66.0 53.4 80.0





#21

trans-1,2-Dichloroethene

Concen: 21.054 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

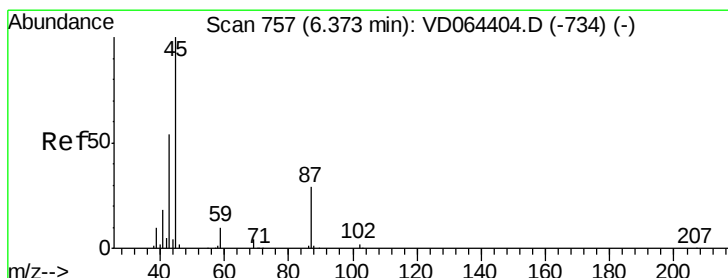
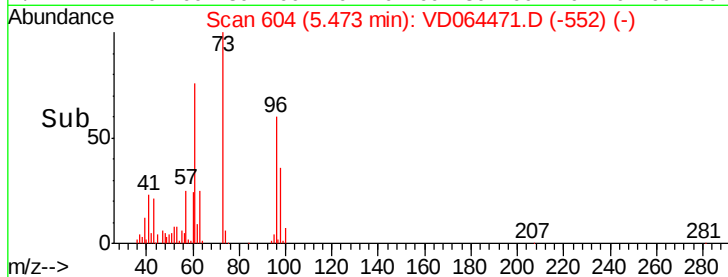
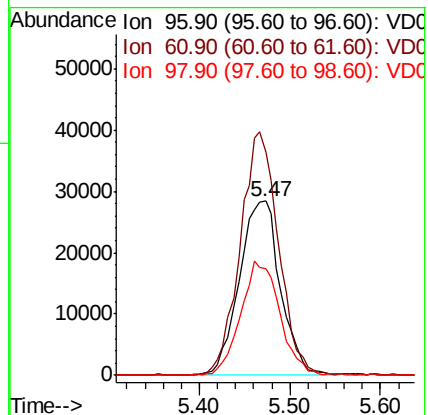
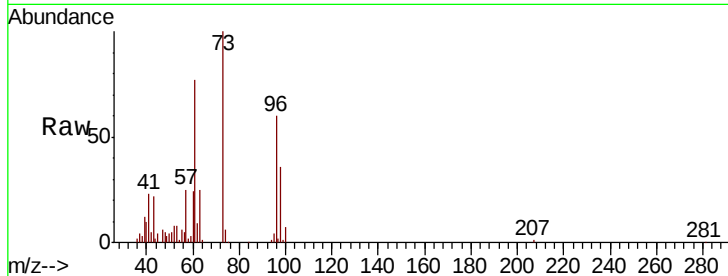
Tot Ion: 96 Resp: 89649

Ion Ratio Lower Upper

96 100

61 128.5 105.8 158.6

98 61.0 50.1 75.1



#22

Diisopropyl ether

Concen: 21.460 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Tgt Ion: 45 Resp: 248882

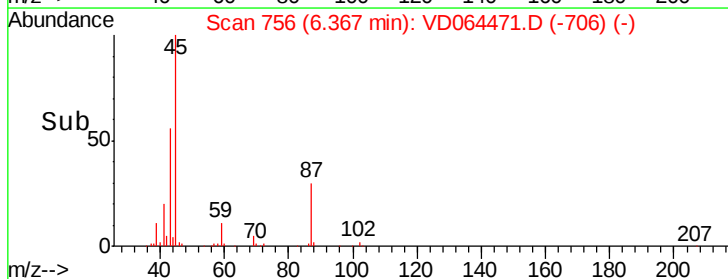
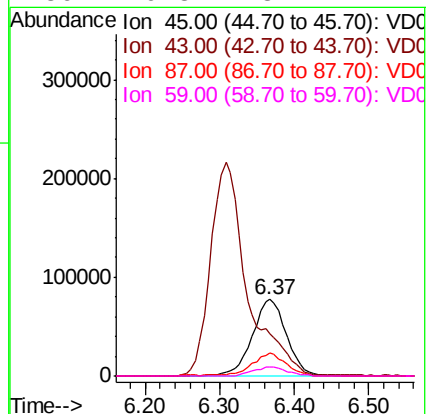
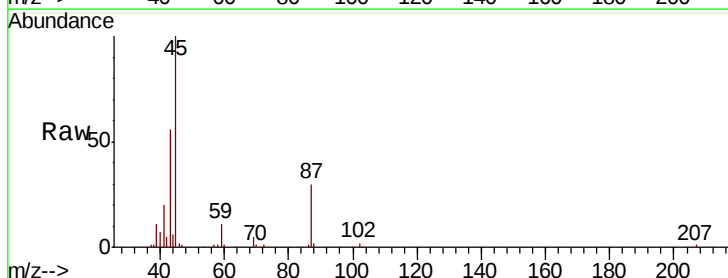
Ion Ratio Lower Upper

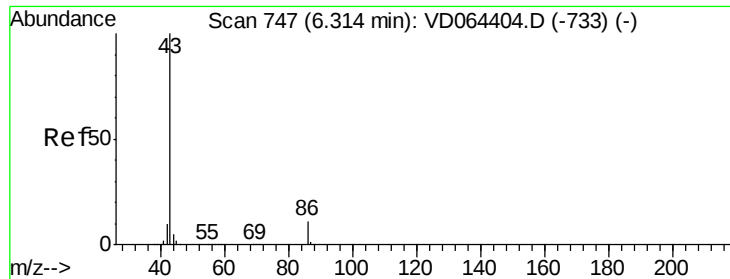
45 100

43 53.9 43.1 64.7

87 29.5 23.5 35.3

59 10.8 8.2 12.2





#23

Vinyl Acetate

Concen: 108.311 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

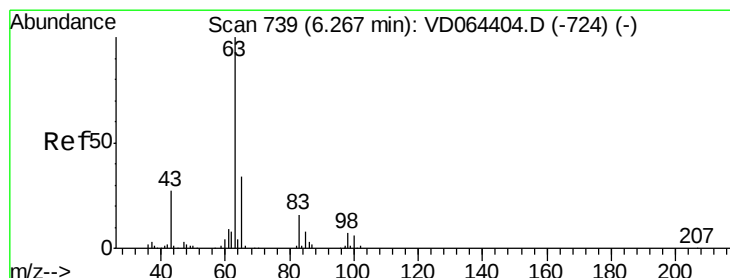
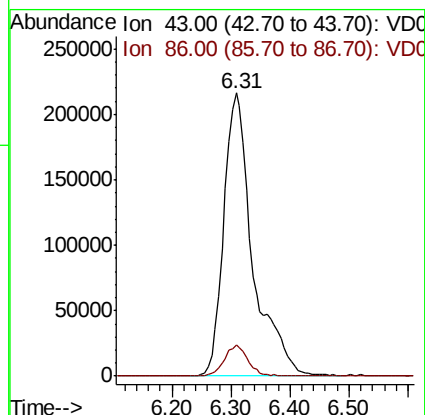
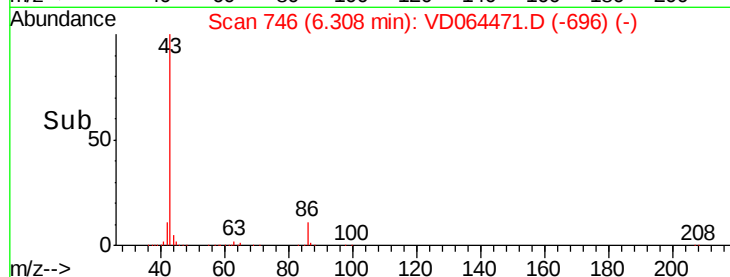
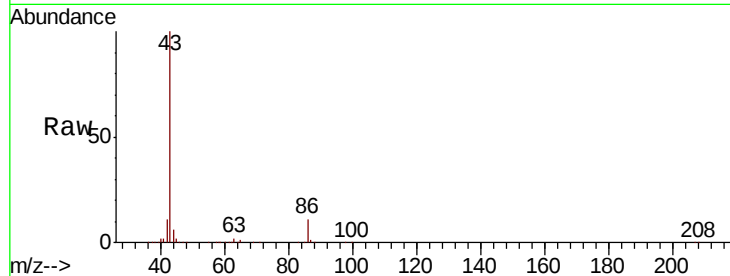
ClientSampleId :

Tot Ion: 43 Resp: 740528

Ion Ratio Lower Upper

43 100

86 11.1 8.9 13.3



#24

1,1-Dichloroethane

Concen: 21.227 ug/l

RT: 6.26 min Scan# 737

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

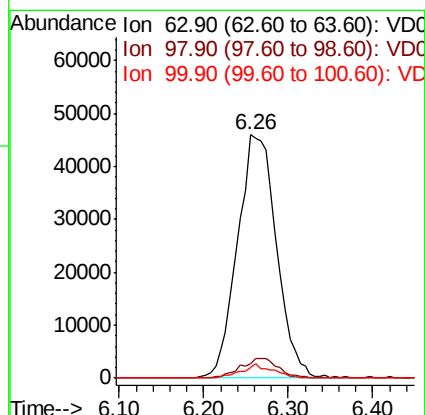
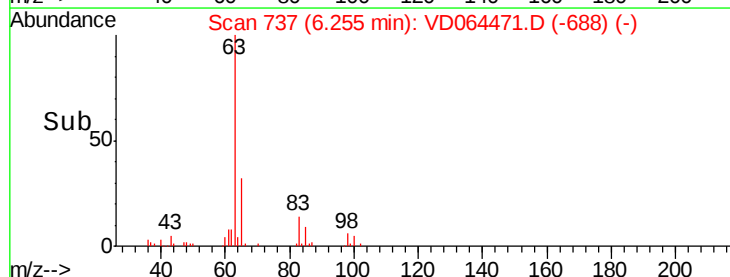
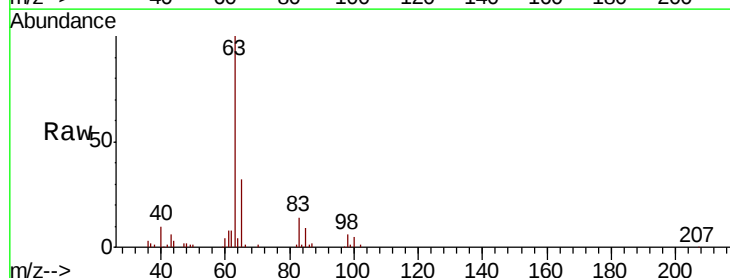
Tgt Ion: 63 Resp: 148048

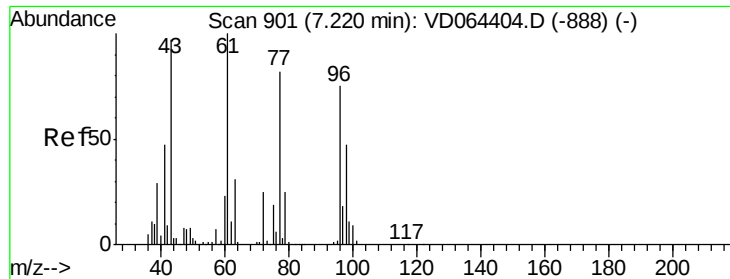
Ion Ratio Lower Upper

63 100

98 6.0 3.6 10.9

100 4.5 2.9 8.6





#25

2-Butanone

Concen: 108.468 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

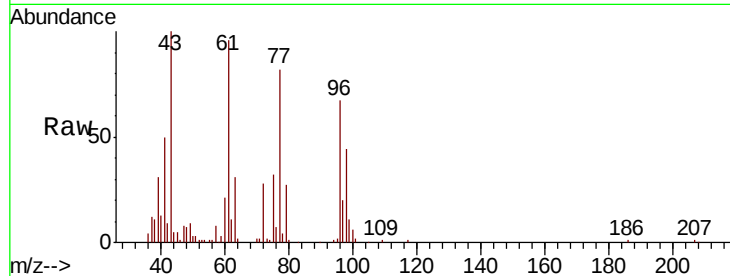
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 117179

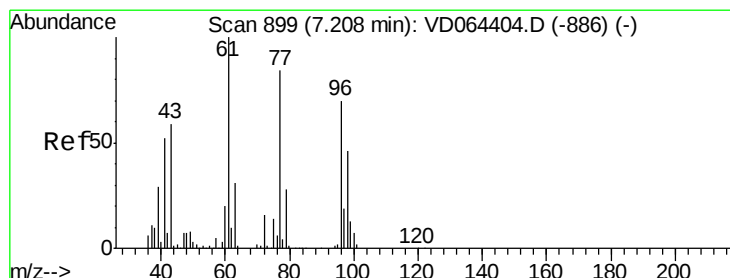
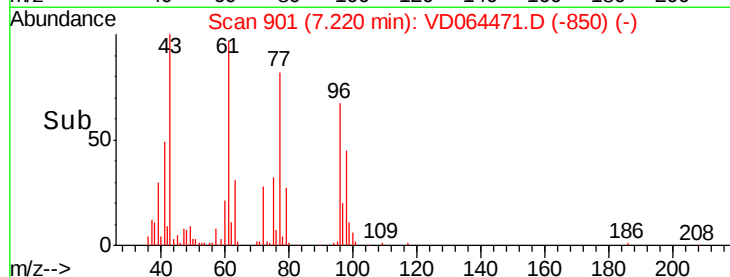
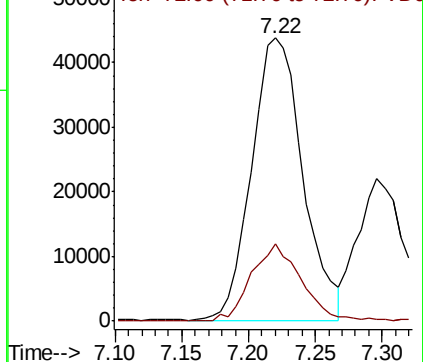
Ion Ratio Lower Upper

43 100

72 27.5 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.485 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.00 min

Lab File: VD064471.D

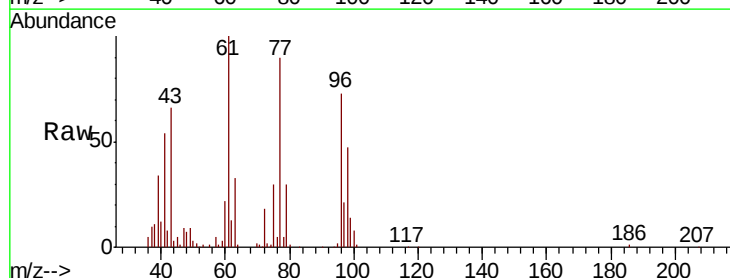
Acq: 09 Dec 2019 13:08

Tgt Ion: 77 Resp: 130314

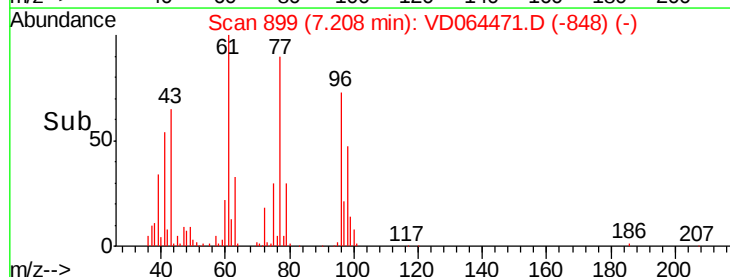
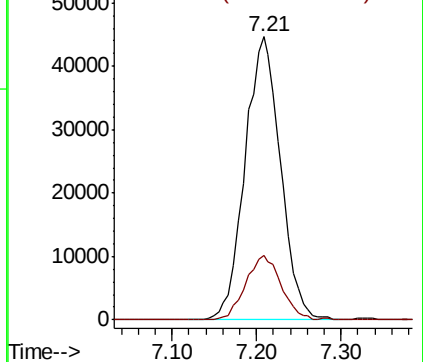
Ion Ratio Lower Upper

77 100

97 22.8 11.6 34.7



Abundance Ion 76.90 (76.60 to 77.60): VDC
Ion 96.90 (96.60 to 97.60): VDC





#27

cis-1,2-Dichloroethene

Concen: 21.204 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :

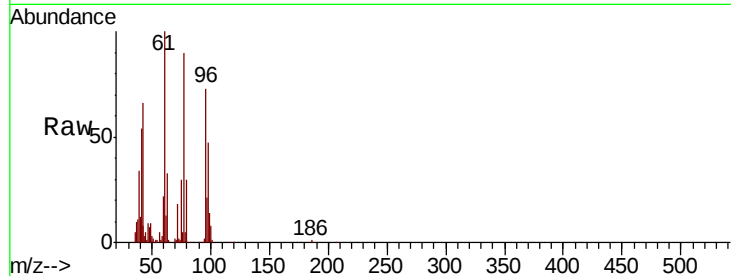
Tot Ion: 96 Resp: 98433

Ion Ratio Lower Upper

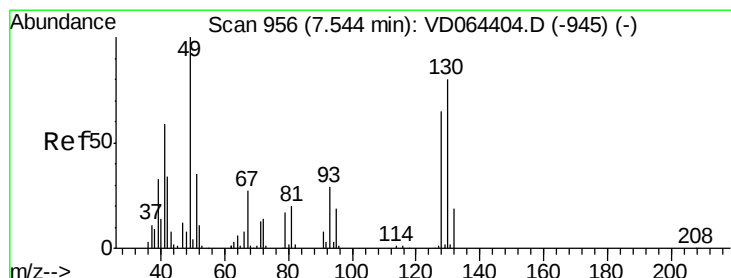
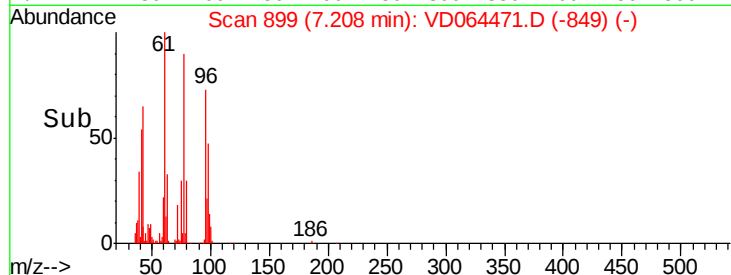
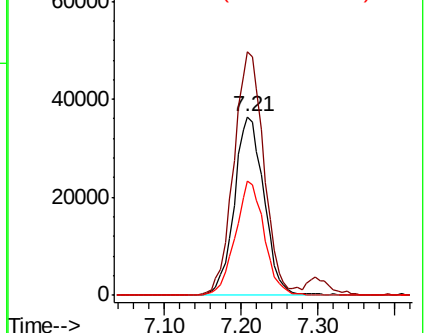
96 100

61 137.9 0.0 279.6

98 62.0 0.0 129.2



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



#28

Bromochloromethane

Concen: 17.821 ug/l

RT: 7.54 min Scan# 956

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

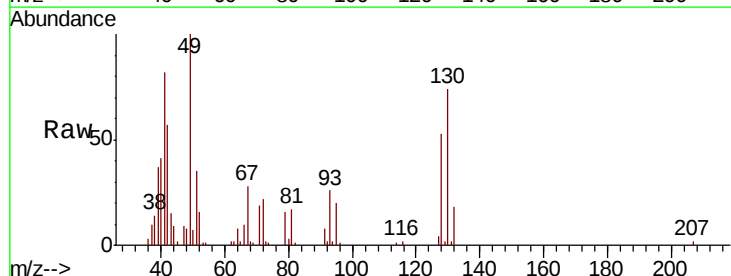
Tgt Ion: 49 Resp: 42477

Ion Ratio Lower Upper

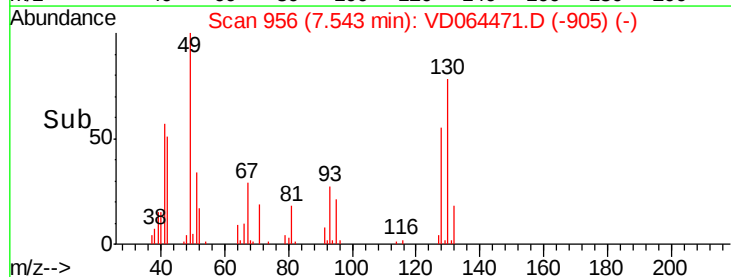
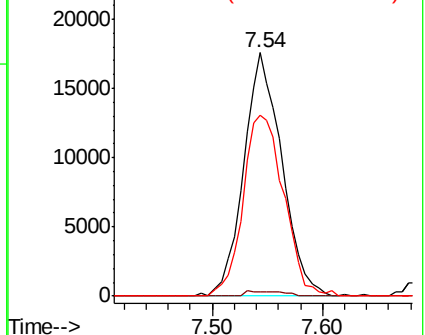
49 100

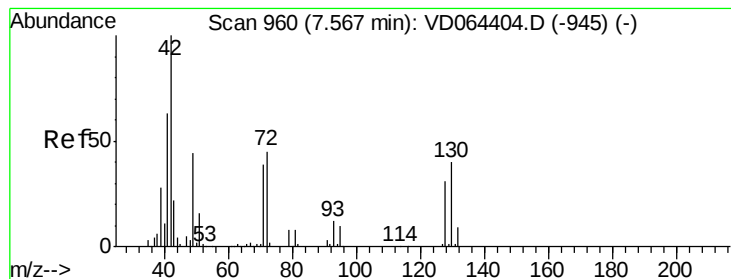
129 1.1 0.0 4.4

130 79.6 67.4 101.0



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





#29

Tetrahydrofuran

Concen: 115.990 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

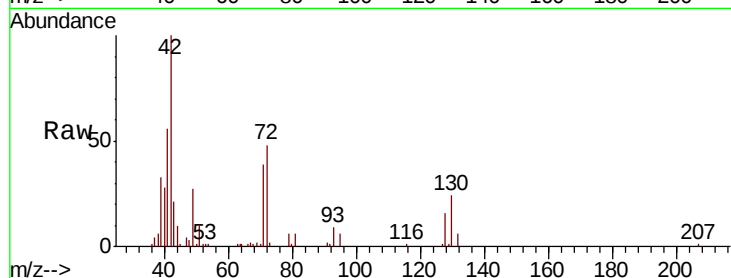
Tot Ion: 42 Resp: 79722

Ion Ratio Lower Upper

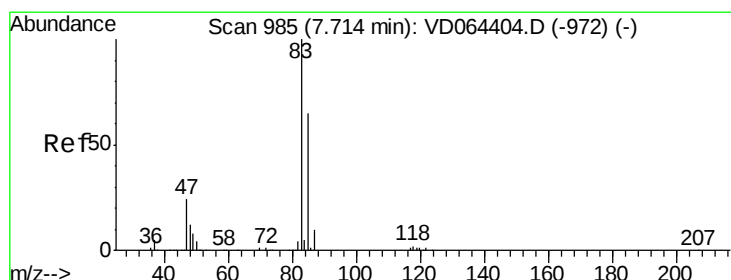
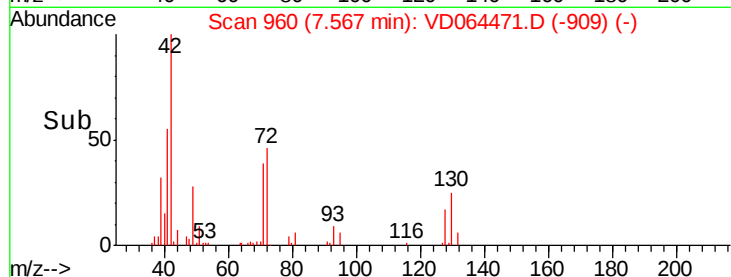
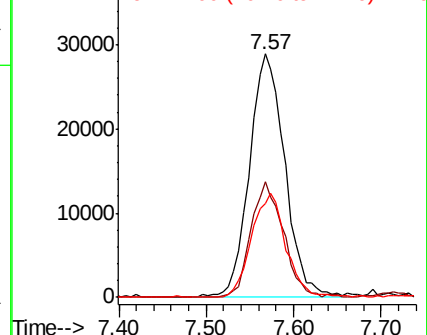
42 100

72 43.1 35.8 53.8

71 41.1 32.7 49.1



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



#30

Chloroform

Concen: 21.436 ug/l

RT: 7.71 min Scan# 985

Delta R.T. -0.00 min

Lab File: VD064471.D

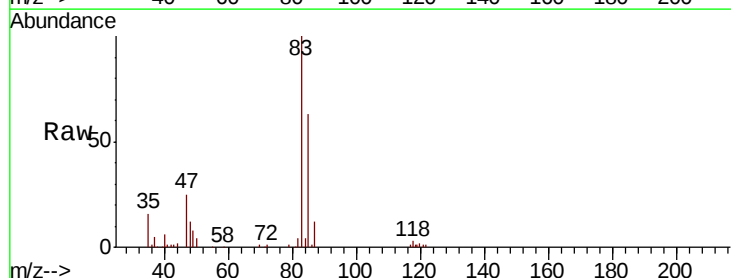
Acq: 09 Dec 2019 13:08

Tgt Ion: 83 Resp: 154835

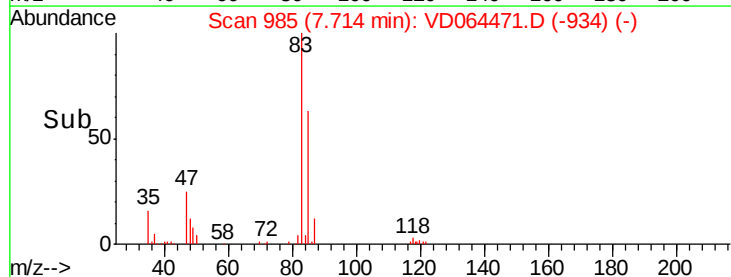
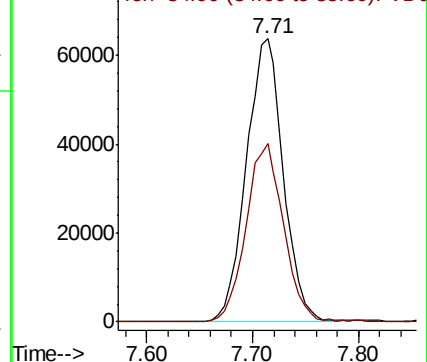
Ion Ratio Lower Upper

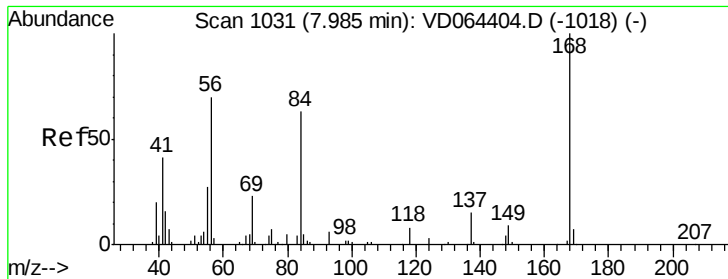
83 100

85 62.9 51.8 77.6



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





#31

Cyclohexane

Concen: 20.474 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampled :

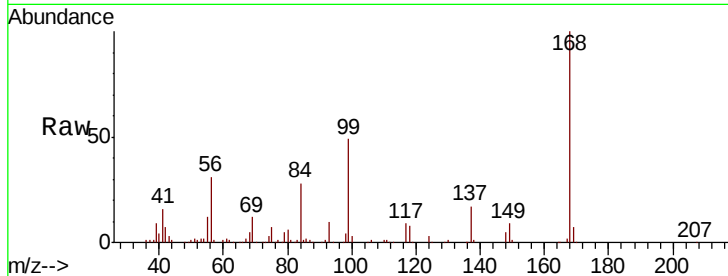
Tot Ion: 56 Resp: 141167

Ion Ratio Lower Upper

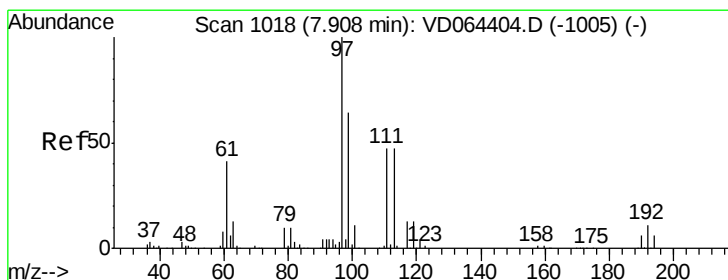
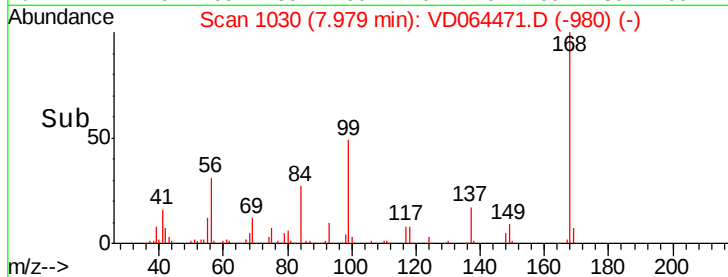
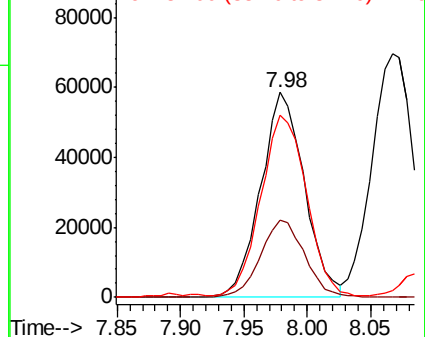
56 100

69 38.0 26.2 39.4

84 87.6 70.3 105.5



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



#32

1,1,1-Trichloroethane

Concen: 21.000 ug/l

RT: 7.90 min Scan# 1016

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

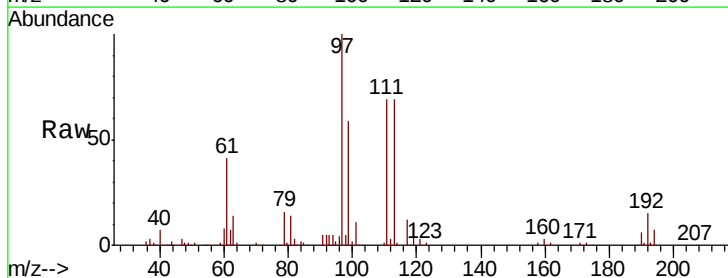
Tgt Ion: 97 Resp: 140631

Ion Ratio Lower Upper

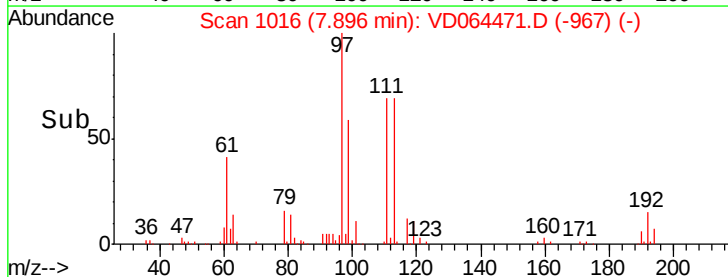
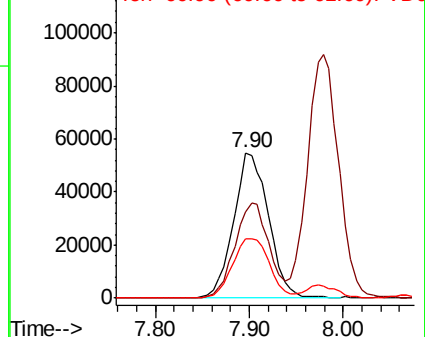
97 100

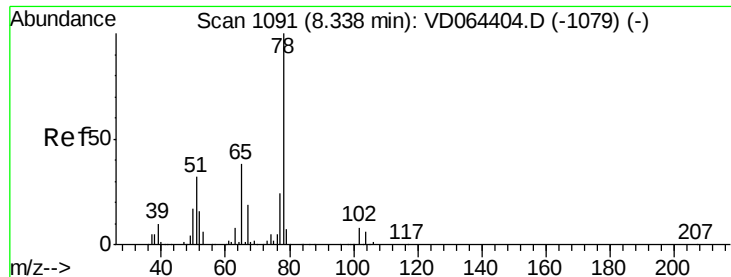
99 64.2 51.4 77.2

61 43.8 35.0 52.4



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





#33

1,2-Dichloroethane-d4

Concen: 53.806 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

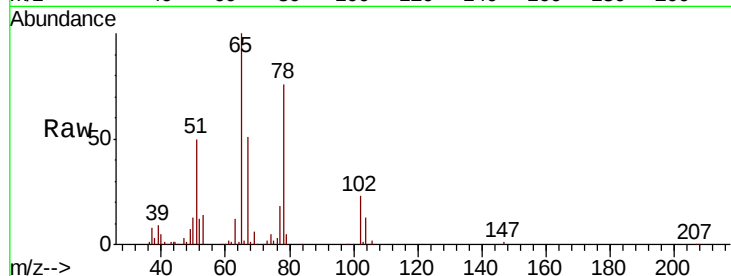
ClientSampled :

Tot Ion: 65 Resp: 203397

Ion Ratio Lower Upper

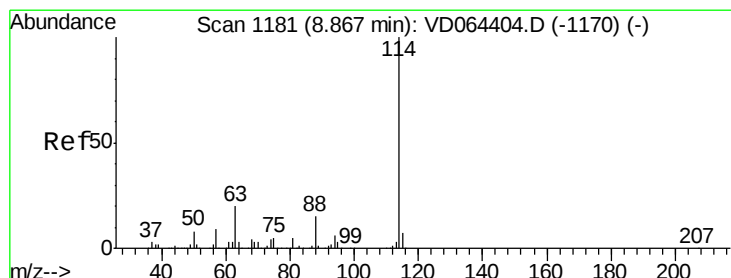
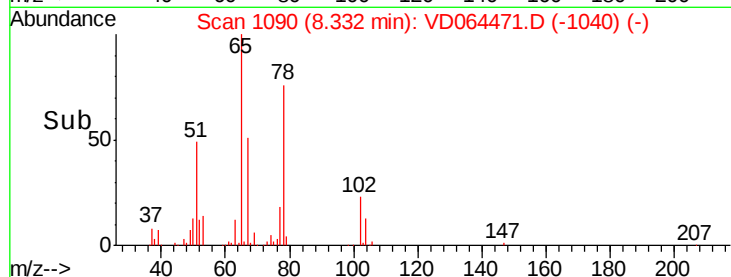
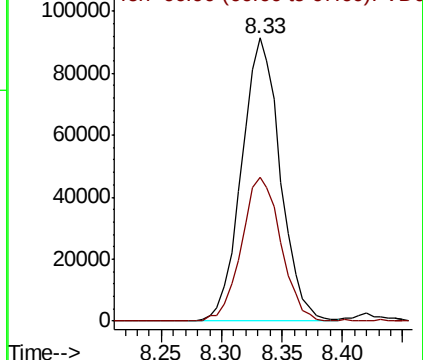
65 100

67 51.9 0.0 102.0



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: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

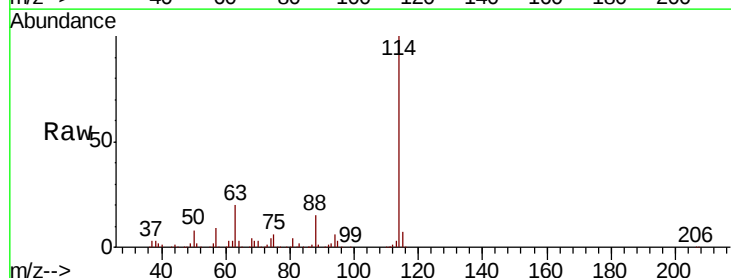
Tgt Ion: 114 Resp: 627325

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

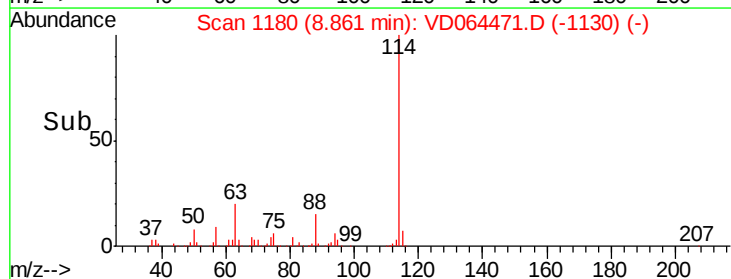
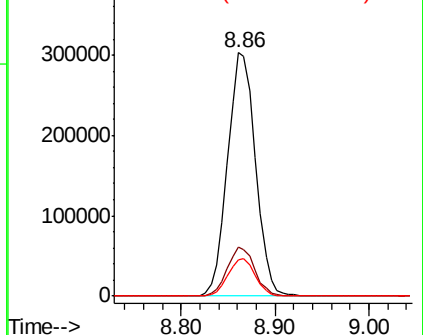
88 14.8 0.0 29.2

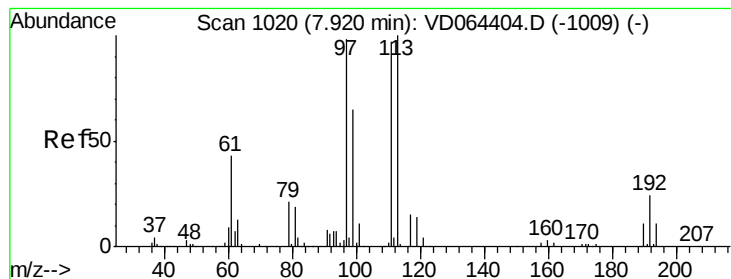


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.681 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

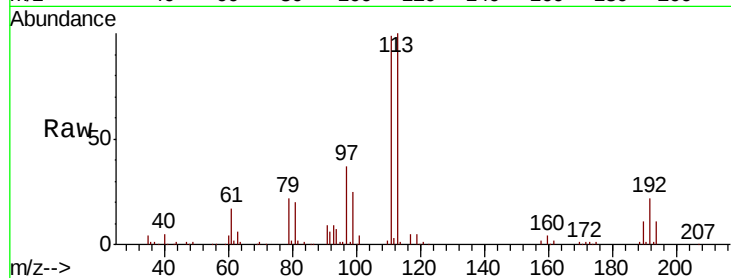
Tot Ion:113 Resp: 200316

Ion Ratio Lower Upper

113 100

111 101.1 79.4 119.2

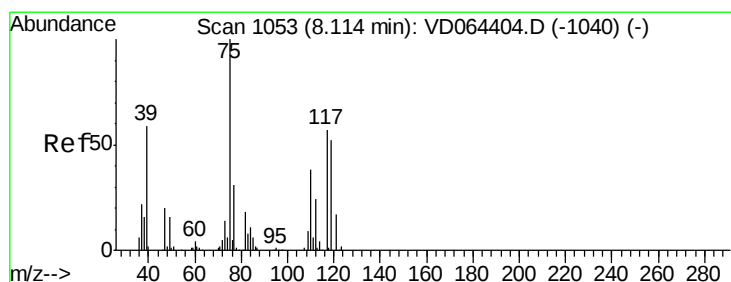
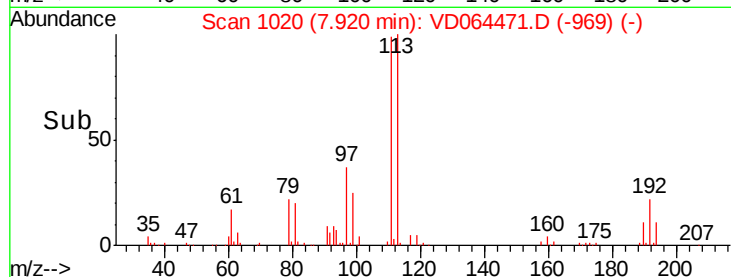
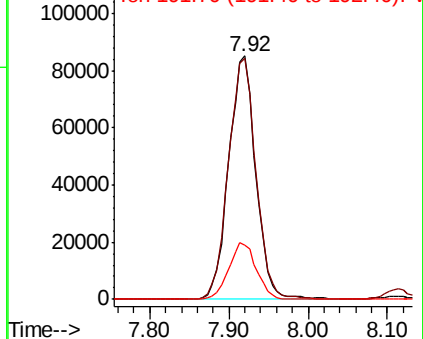
192 23.7 18.6 28.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 20.213 ug/l

RT: 8.11 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

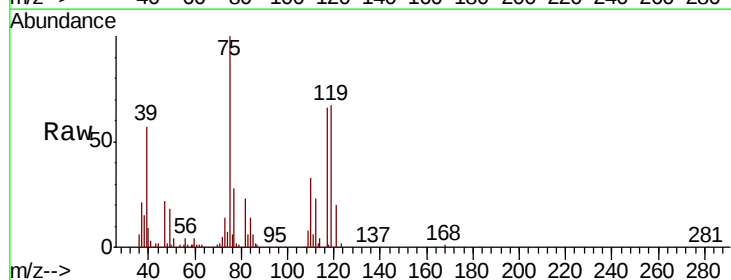
Tgt Ion: 75 Resp: 119934

Ion Ratio Lower Upper

75 100

110 36.5 18.6 55.8

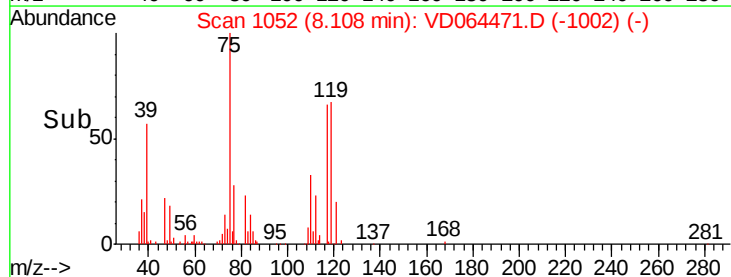
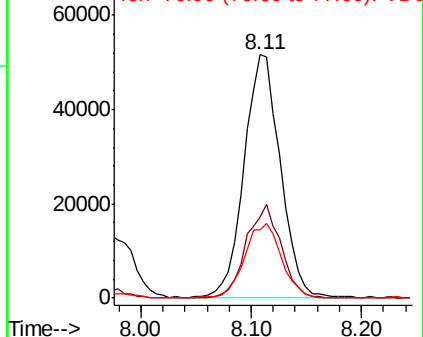
77 31.1 25.0 37.4

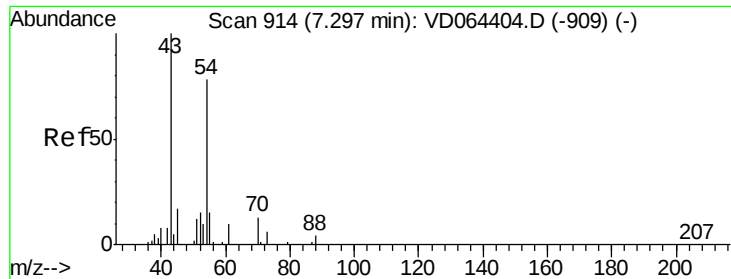


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

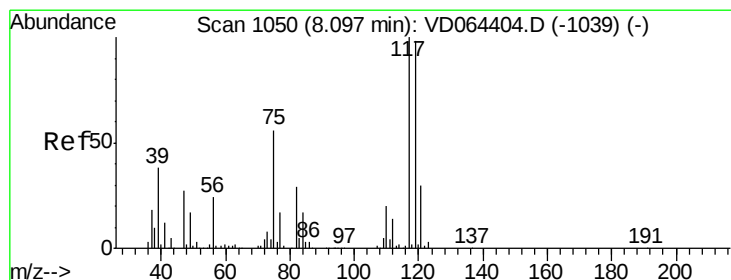
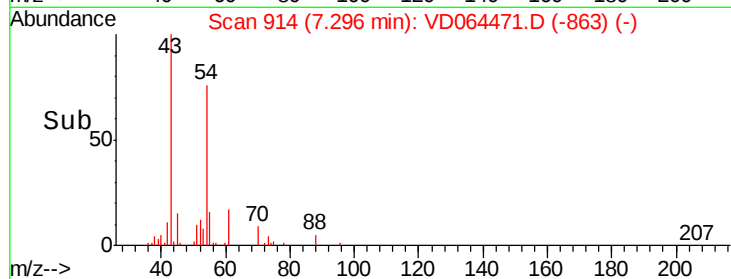
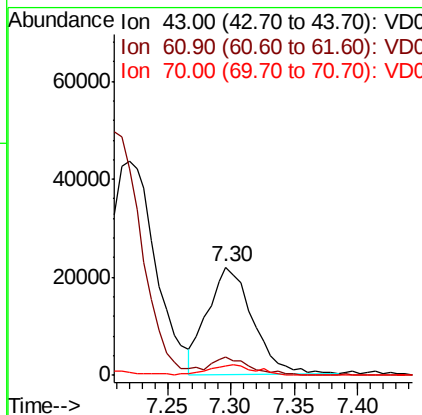
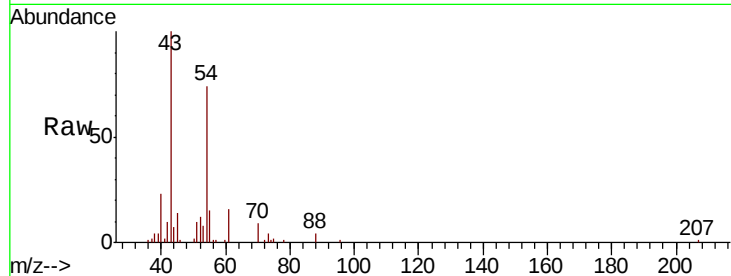




#37
Ethyl Acetate
Concen: 21.431 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

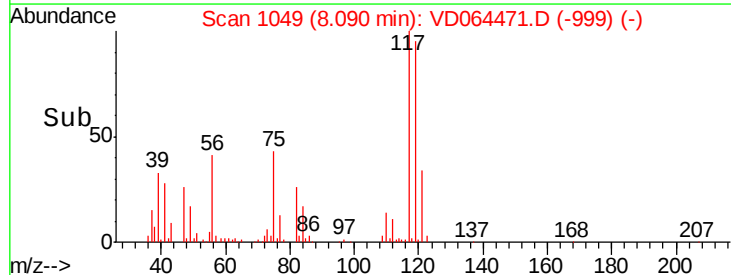
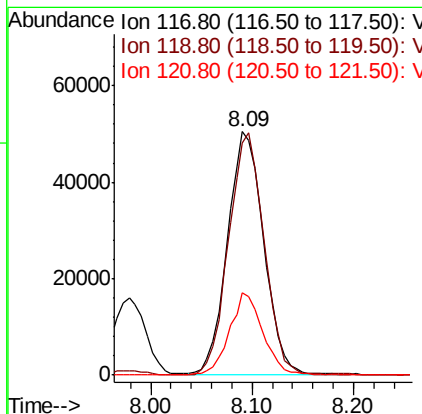
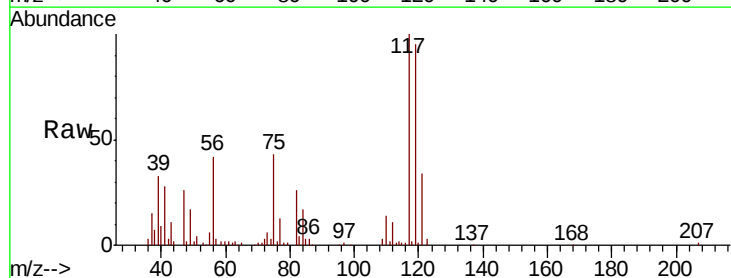
Instrument :
MSVOA_D
ClientSampleId :

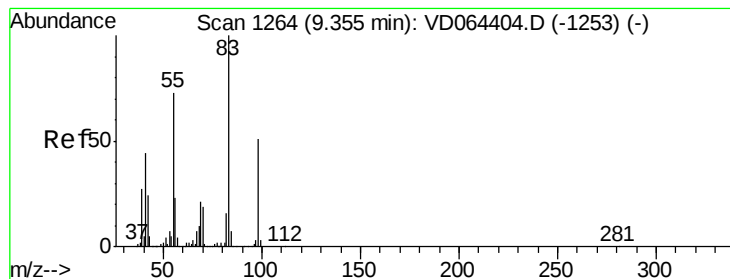
Tot Ion: 43 Resp: 53959
Ion Ratio Lower Upper
43 100
61 13.9 10.9 16.3
70 10.5 8.3 12.5



#38
Carbon Tetrachloride
Concen: 20.067 ug/l
RT: 8.09 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 117 Resp: 125670
Ion Ratio Lower Upper
117 100
119 94.8 78.8 118.2
121 33.9 24.2 36.2





#39

Methvlcvclohexane

Concen: 19.929 ug/l

RT: 9.35 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

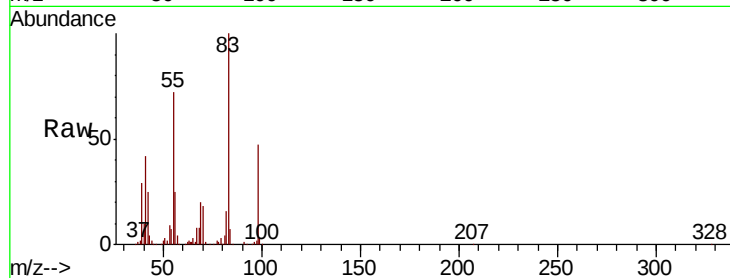
Tot Ion: 83 Resp: 146682

Ion Ratio Lower Upper

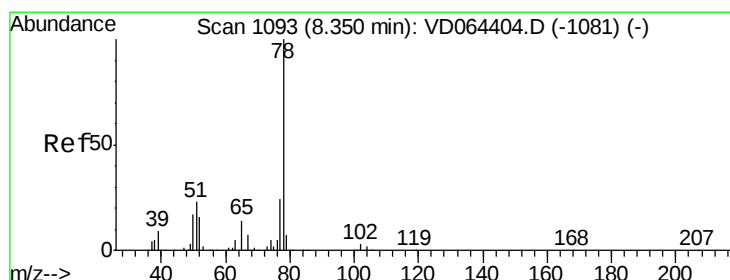
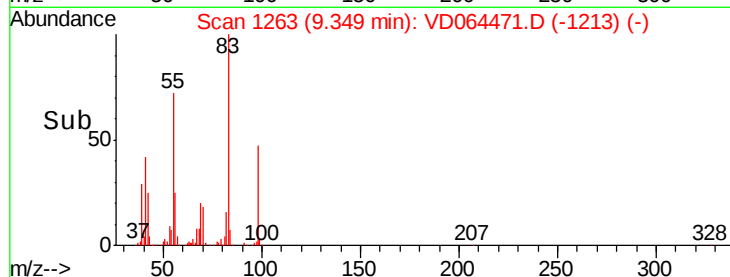
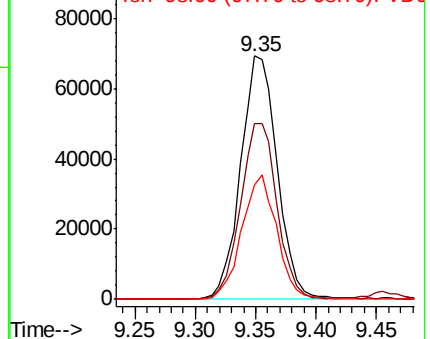
83 100

55 72.3 58.6 87.8

98 46.8 40.9 61.3



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC



#40

Benzene

Concen: 19.993 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VD064471.D

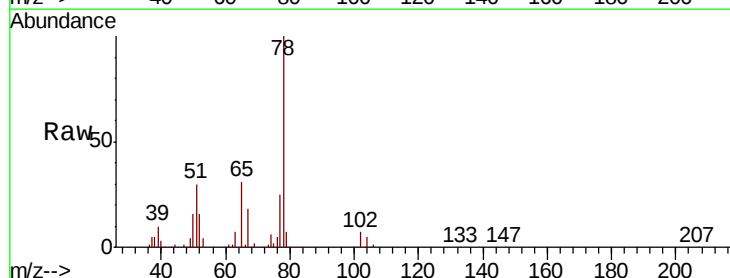
Acq: 09 Dec 2019 13:08

Tgt Ion: 78 Resp: 329482

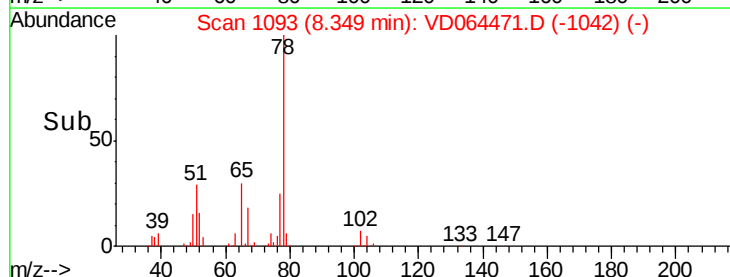
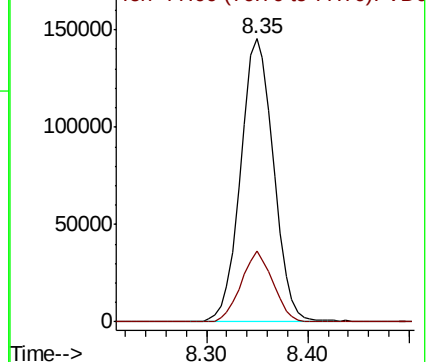
Ion Ratio Lower Upper

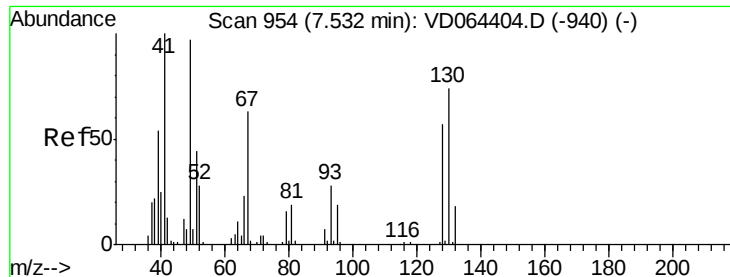
78 100

77 25.1 19.6 29.4



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC

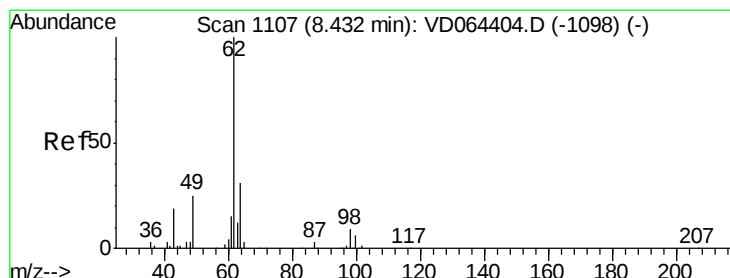
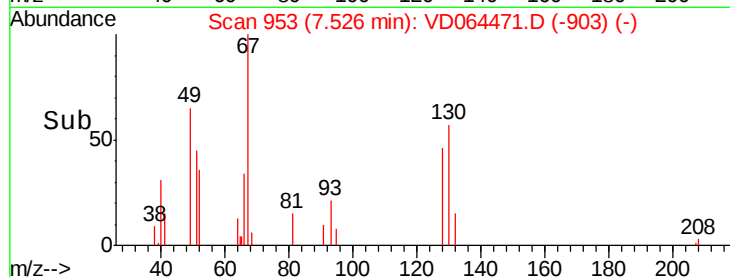
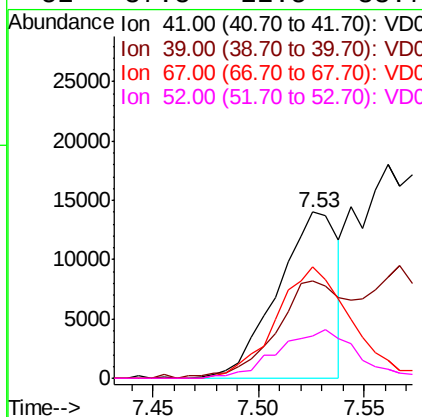
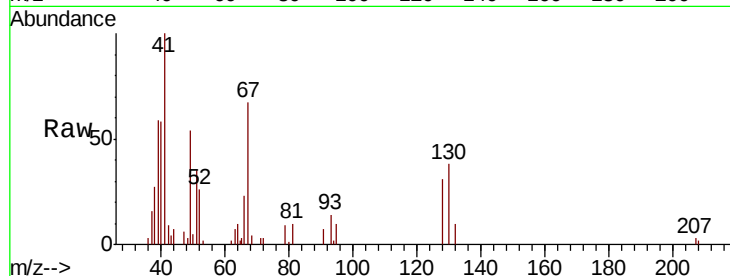




#41
Methacrylonitrile
Concen: 19.364 ug/l
RT: 7.53 min Scan# 953
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

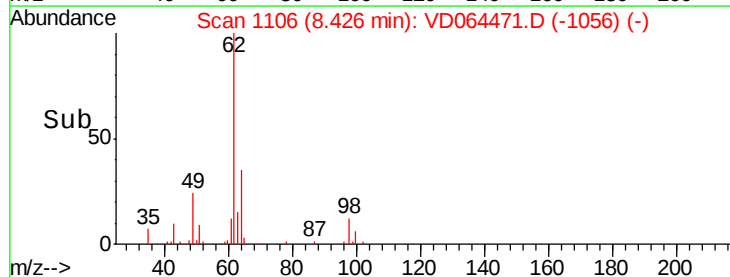
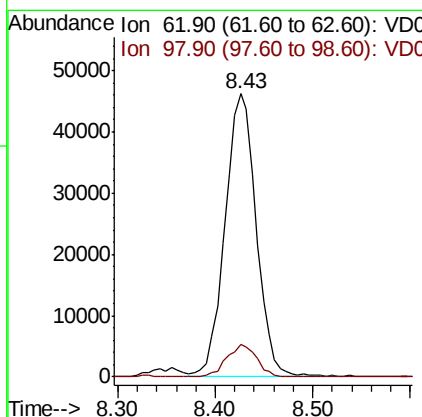
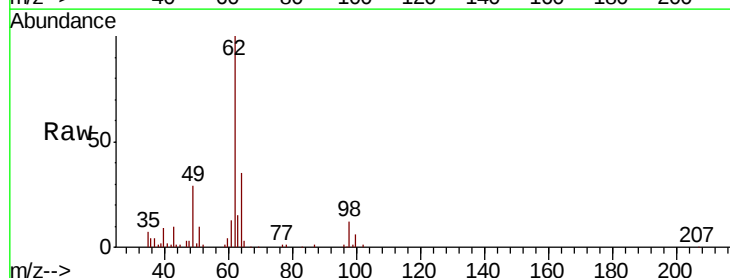
Instrument :
MSVOA_D
ClientSampleId :

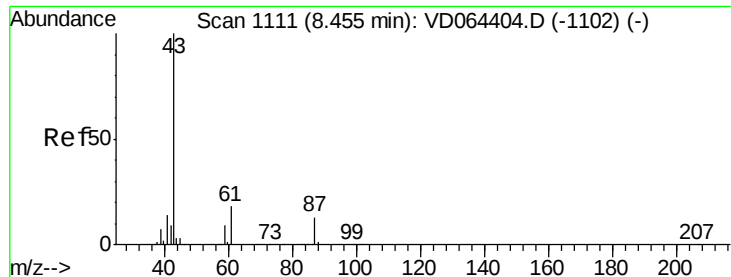
Tot Ion: 41 Resp: 27959
Ion Ratio Lower Upper
41 100
39 67.5 44.6 67.0#
67 82.5 50.9 76.3#
52 37.8 22.5 33.7#



#42
1,2-Dichloroethane
Concen: 21.359 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 62 Resp: 102652
Ion Ratio Lower Upper
62 100
98 10.9 0.0 20.6





#43

Isopropyl Acetate

Concen: 21.165 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

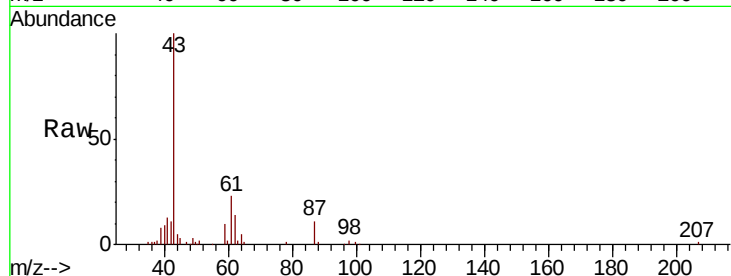
Tot Ion: 43 Resp: 104777

Ion Ratio Lower Upper

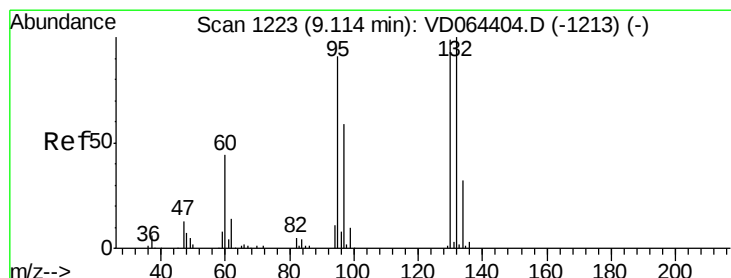
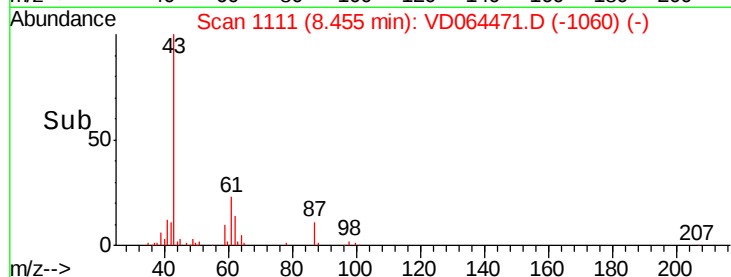
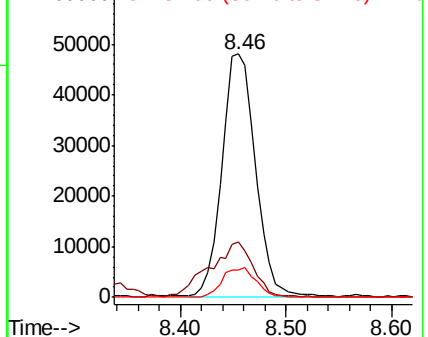
43 100

61 30.3 24.0 36.0

87 12.4 10.6 15.8



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



#44

Trichloroethene

Concen: 20.176 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD064471.D

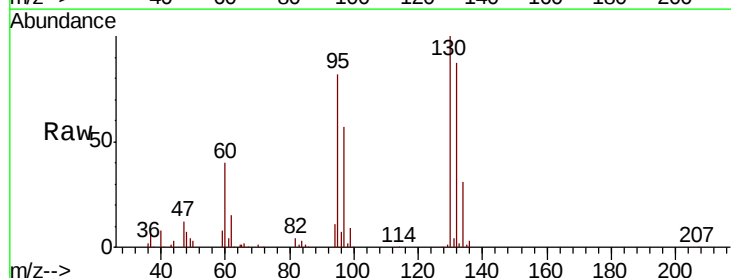
Acq: 09 Dec 2019 13:08

Tgt Ion:130 Resp: 100157

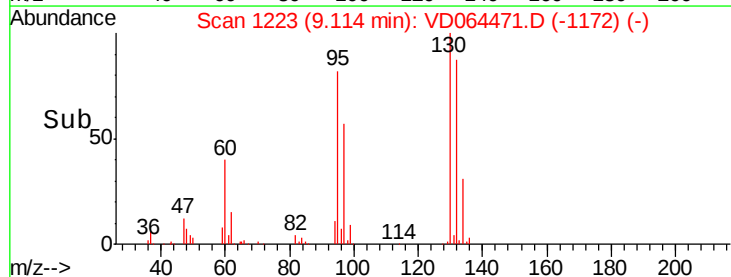
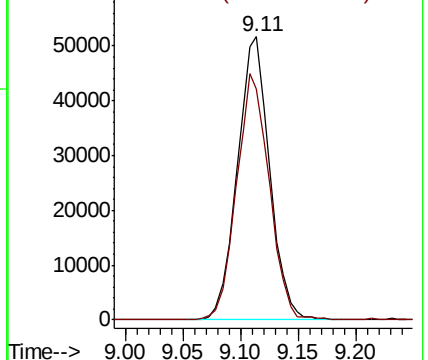
Ion Ratio Lower Upper

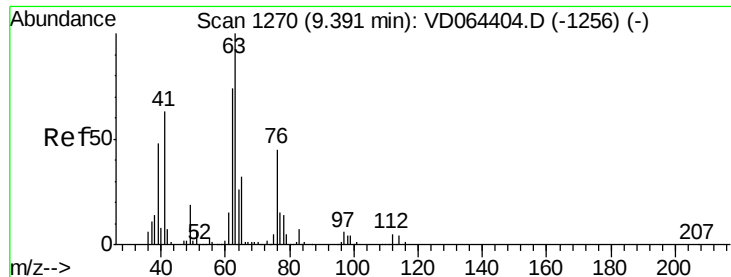
130 100

95 81.6 0.0 184.6



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

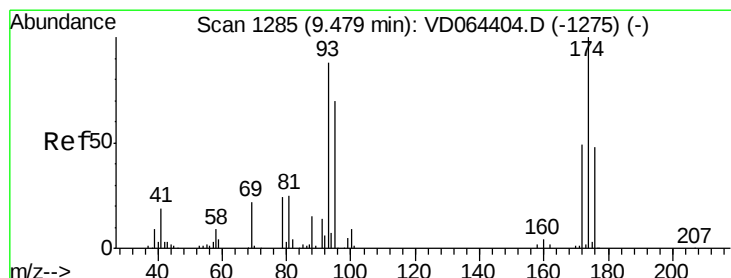
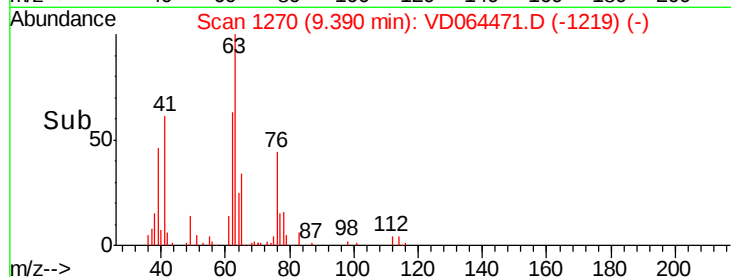
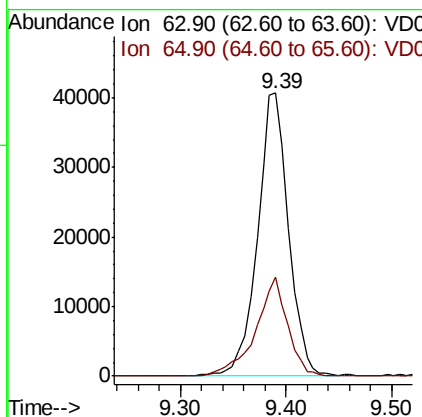
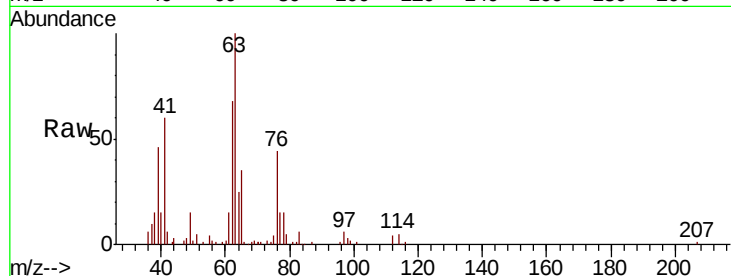




#45
 1,2-Dichloropropane
 Concen: 20.987 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

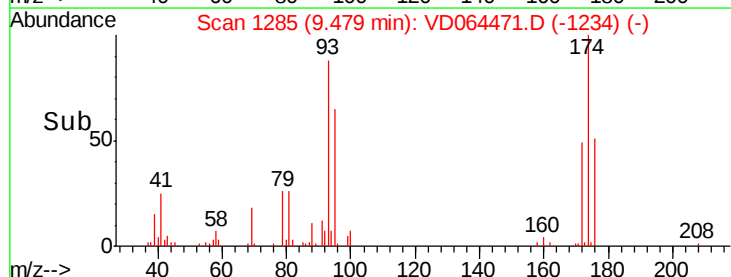
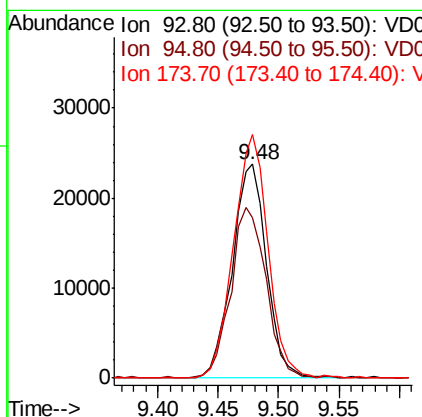
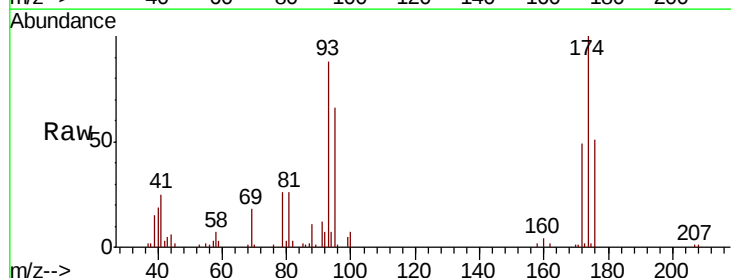
Instrument :
 MSVOA_D
 ClientSampleId :

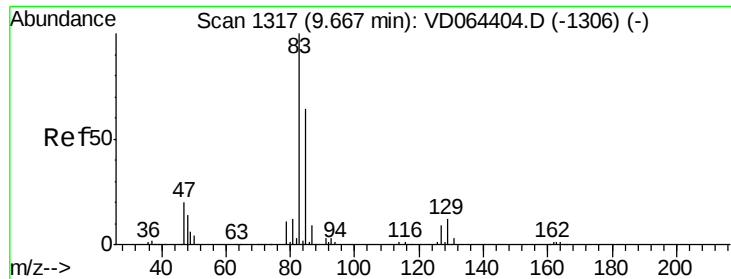
Tot Ion: 63 Resp: 82718
 Ion Ratio Lower Upper
 63 100
 65 34.9 25.4 38.0



#46
 Dibromomethane
 Concen: 21.166 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Tgt Ion: 93 Resp: 47083
 Ion Ratio Lower Upper
 93 100
 95 82.3 66.7 100.1
 174 114.2 92.3 138.5





#47

Bromodichloromethane

Concen: 20.945 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

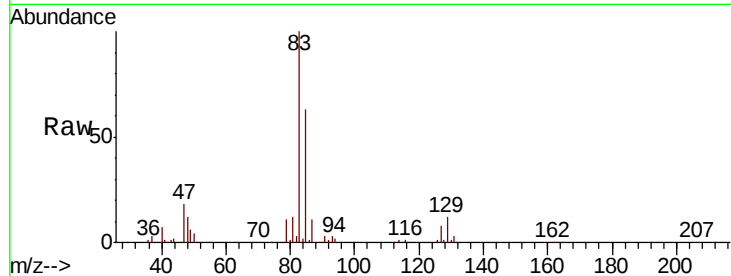
Tot Ion: 83 Resp: 119718

Ion Ratio Lower Upper

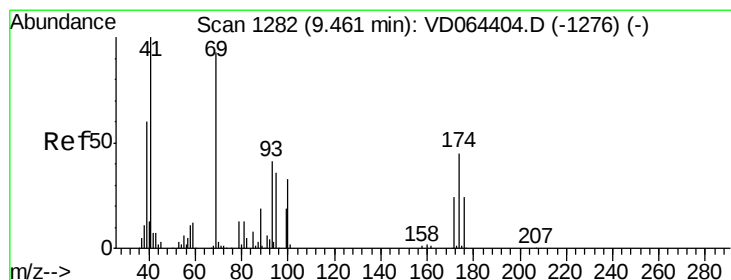
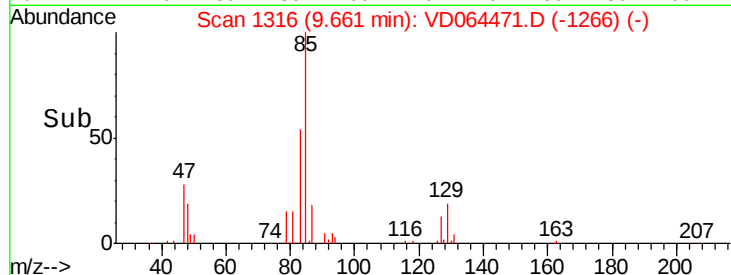
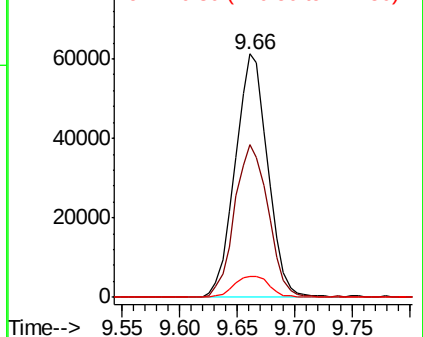
83 100

85 62.8 51.1 76.7

127 8.4 7.4 11.0



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



#48

Methyl methacrylate

Concen: 22.281 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

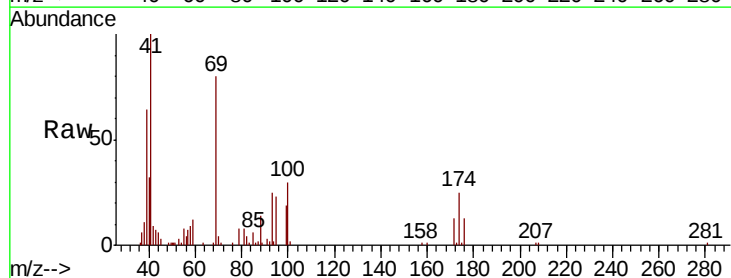
Tgt Ion: 41 Resp: 50473

Ion Ratio Lower Upper

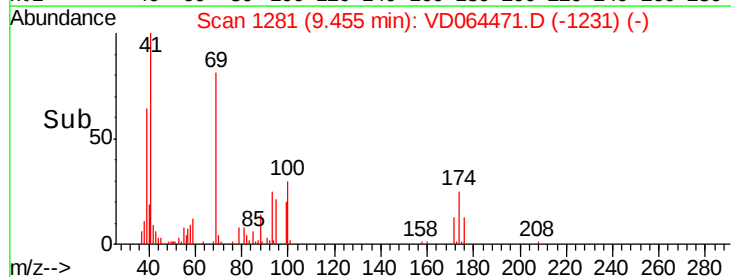
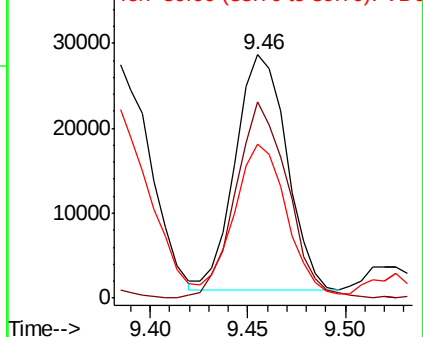
41 100

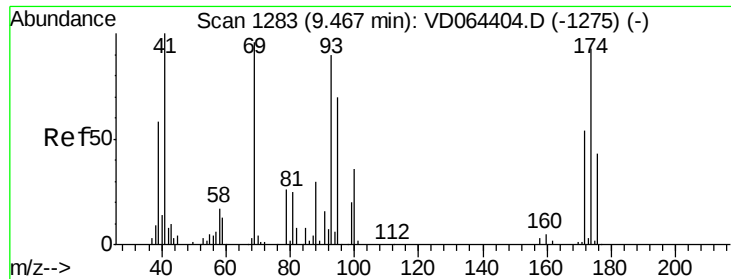
69 84.6 72.0 108.0

39 63.6 55.2 82.8



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





#49

1,4-Dioxane

Concen: 412.387 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :
MSVOA_D
ClientSampled :

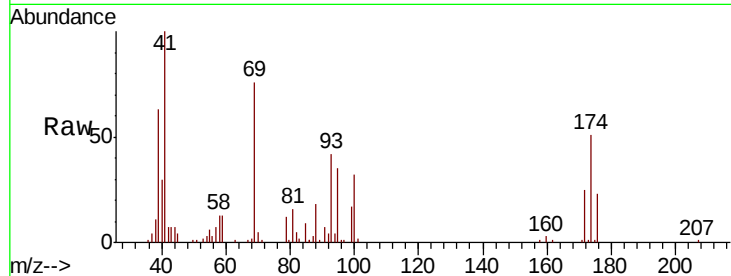
Tot Ion: 88 Resp: 11328

Ion Ratio Lower Upper

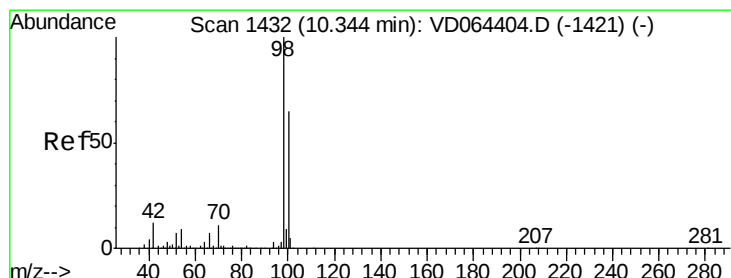
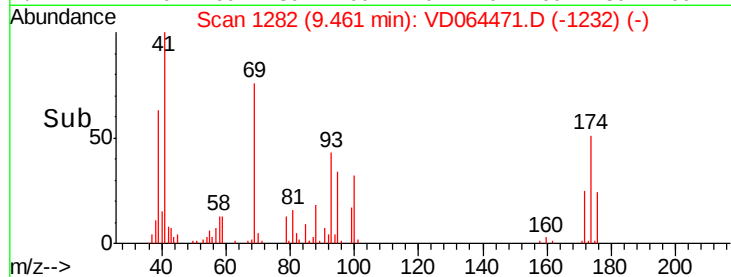
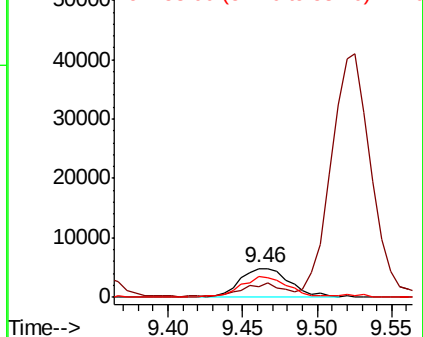
88 100

43 41.2 26.7 40.1#

58 67.7 52.3 78.5



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



#50

Toluene-d8

Concen: 50.195 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064471.D

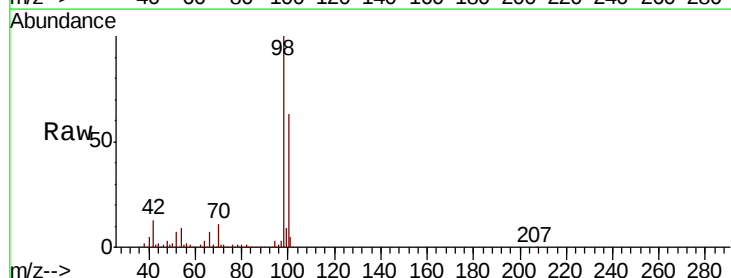
Acq: 09 Dec 2019 13:08

Tgt Ion: 98 Resp: 747323

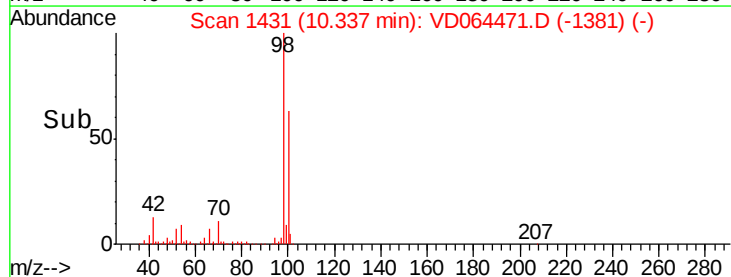
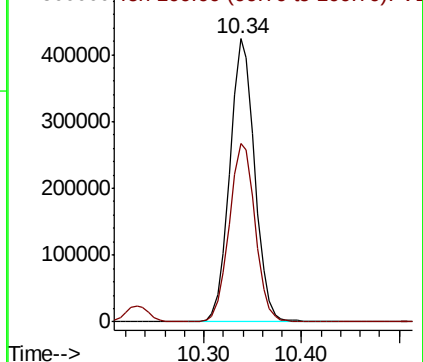
Ion Ratio Lower Upper

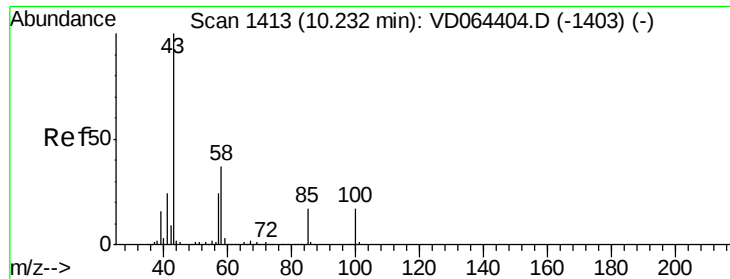
98 100

100 65.7 52.6 79.0



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

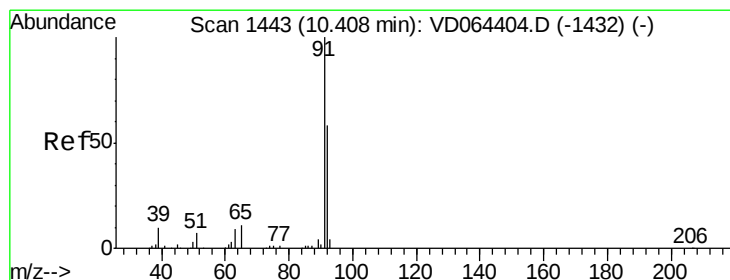
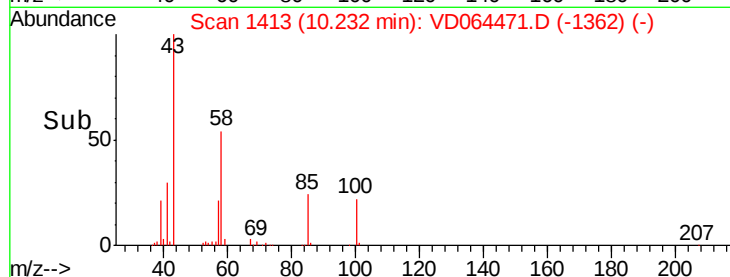
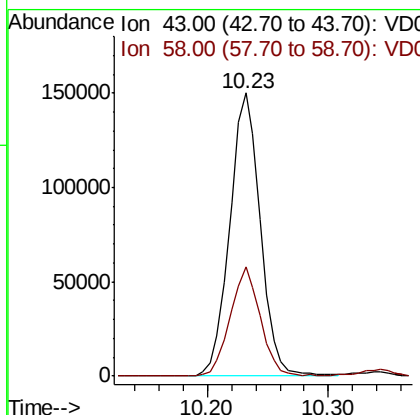
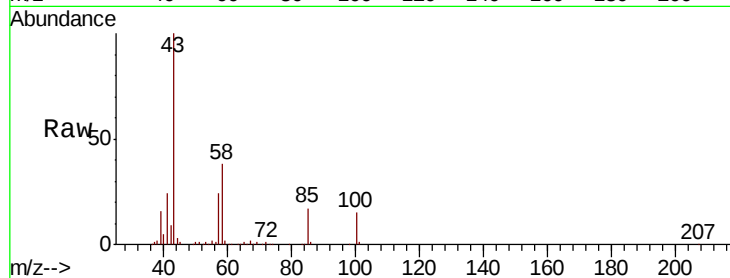




#51
 4-Methyl-2-Pentanone
 Concen: 108.019 ug/l
 RT: 10.23 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

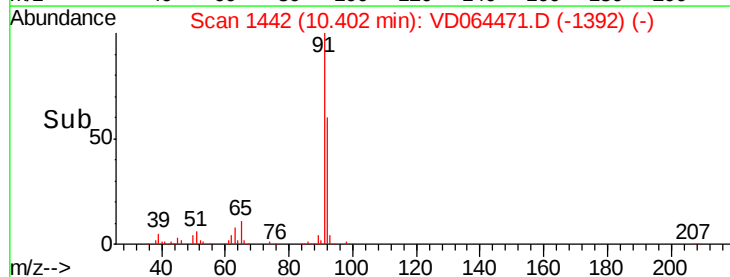
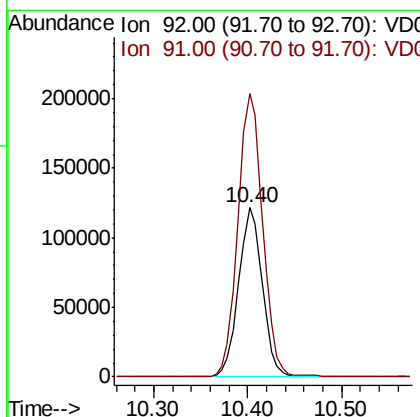
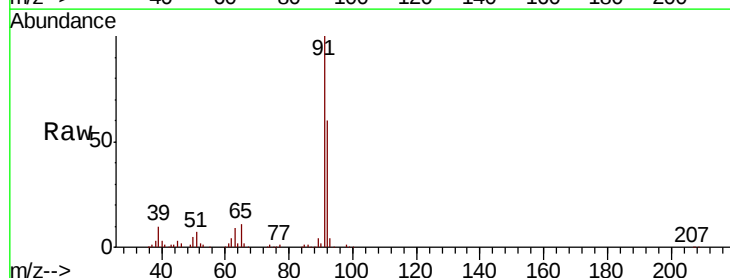
Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 43 Resp: 264582
 Ion Ratio Lower Upper
 43 100
 58 38.0 30.6 46.0



#52
 Toluene
 Concen: 19.941 ug/l
 RT: 10.40 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Tgt Ion: 92 Resp: 214171
 Ion Ratio Lower Upper
 92 100
 91 174.1 137.8 206.6





#53

t-1,3-Dichloropropene

Concen: 21.108 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

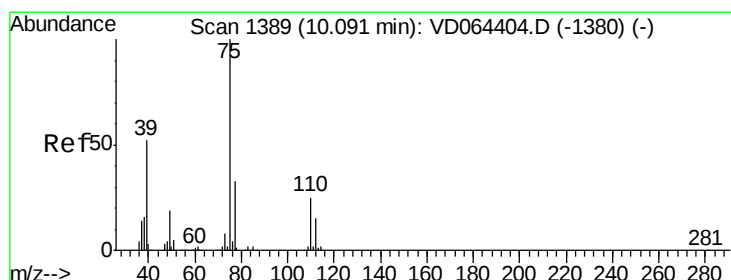
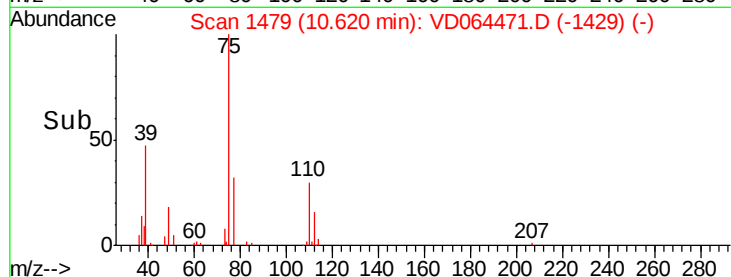
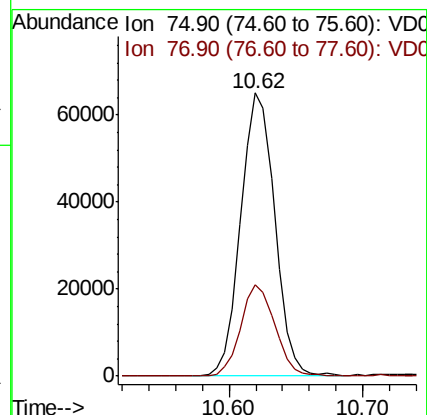
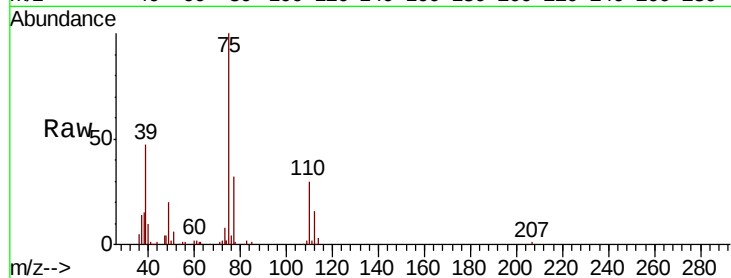
ClientSampleId :

Tot Ion: 75 Resp: 114983

Ion Ratio Lower Upper

75 100

77 32.4 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 20.747 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

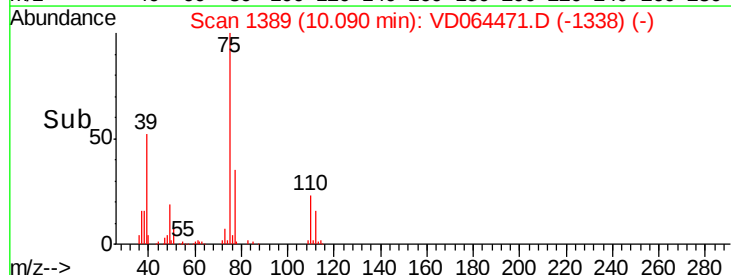
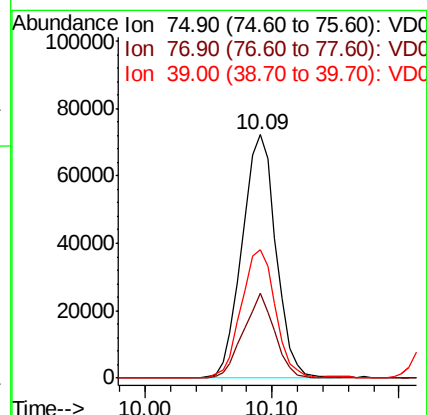
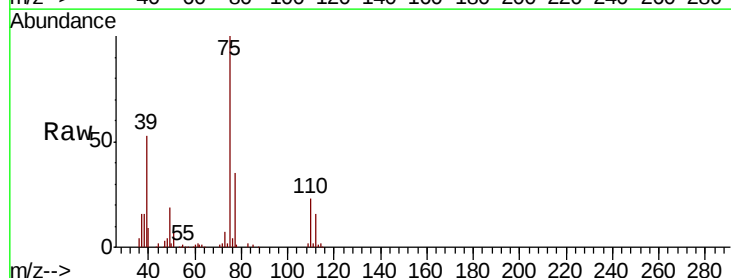
Tgt Ion: 75 Resp: 134260

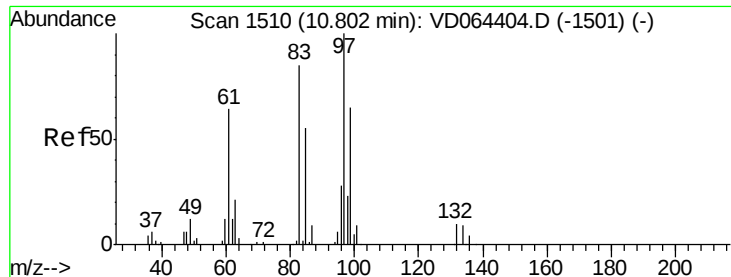
Ion Ratio Lower Upper

75 100

77 35.1 26.1 39.1

39 52.3 41.5 62.3





#55

1,1,2-Trichloroethane

Concen: 21.557 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

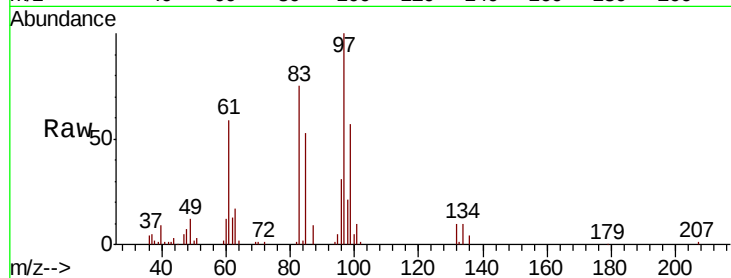
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 65662

Ion	Ratio	Lower	Upper
97	100		
83	75.1	67.8	101.8
85	52.6	43.7	65.5
99	56.8	51.7	77.5

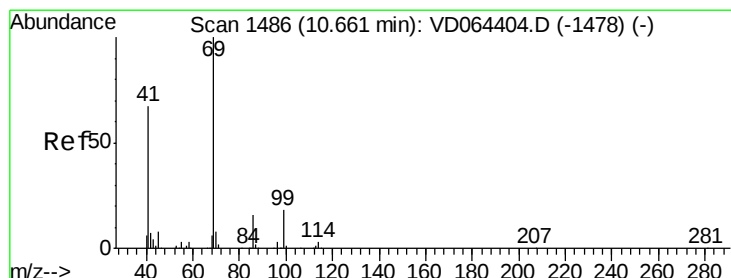
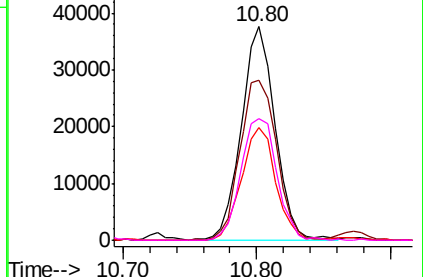
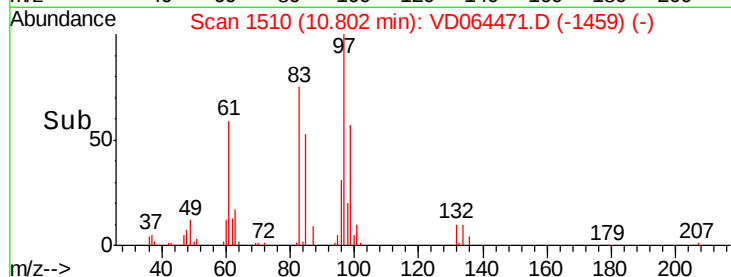


Abundance Ion 96.90 (96.60 to 97.60): VDC

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: 20.920 ug/l

RT: 10.66 min Scan# 1486

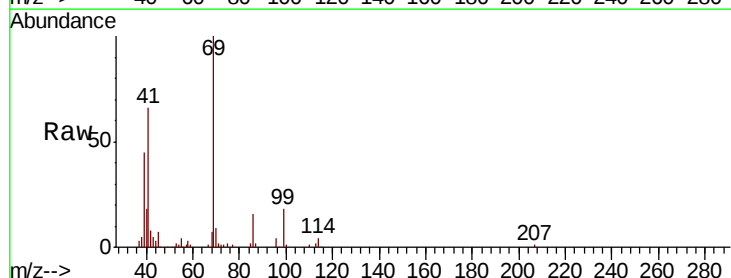
Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Tgt Ion: 69 Resp: 81272

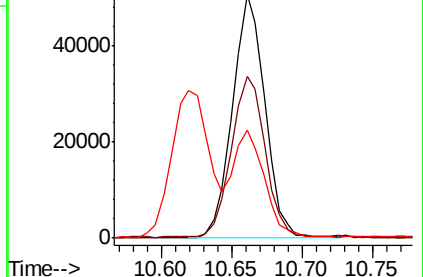
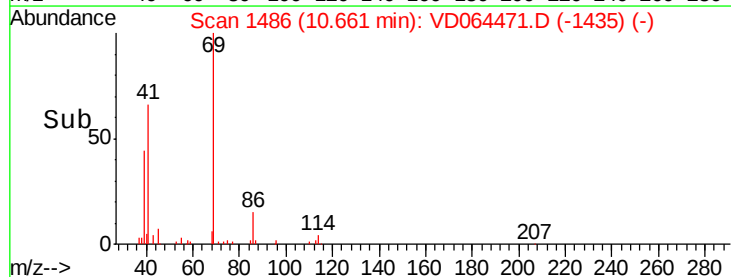
Ion	Ratio	Lower	Upper
69	100		
41	67.5	55.0	82.4
39	42.8	33.0	49.6

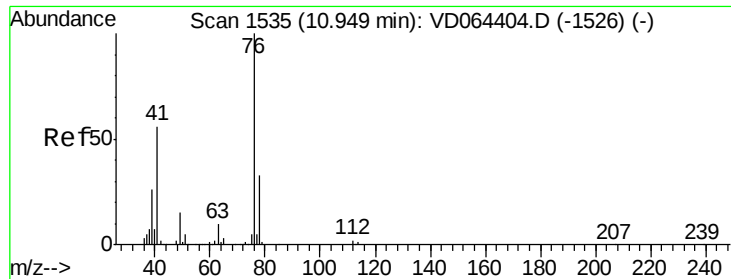


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

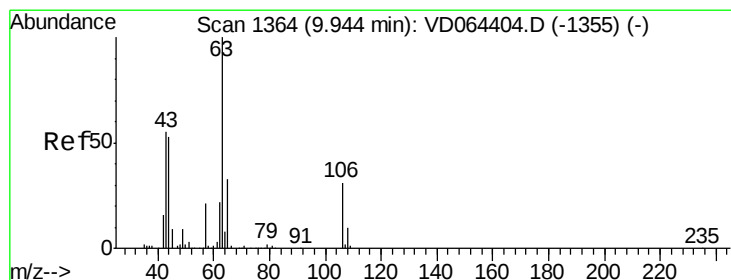
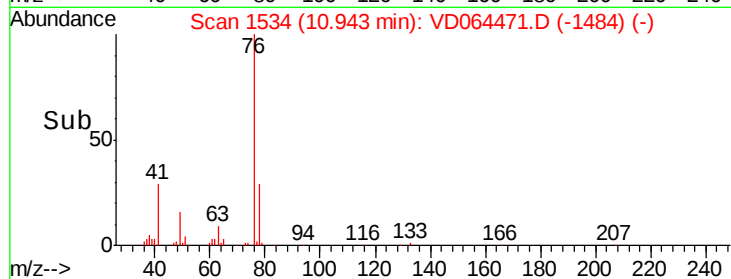
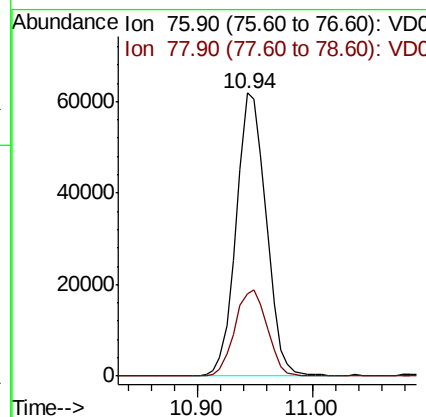
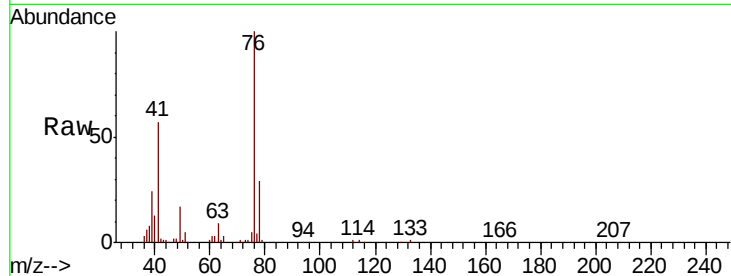




#57
 1,3-Dichloropropane
 Concen: 21.501 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

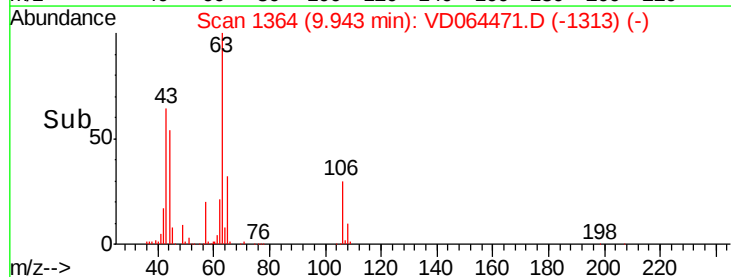
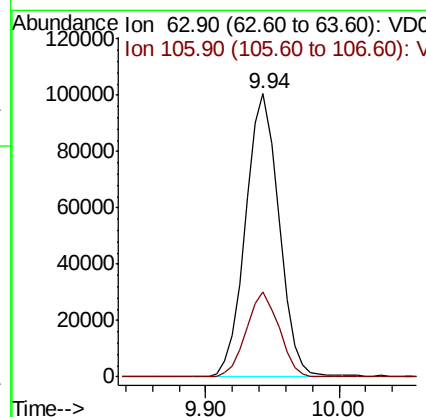
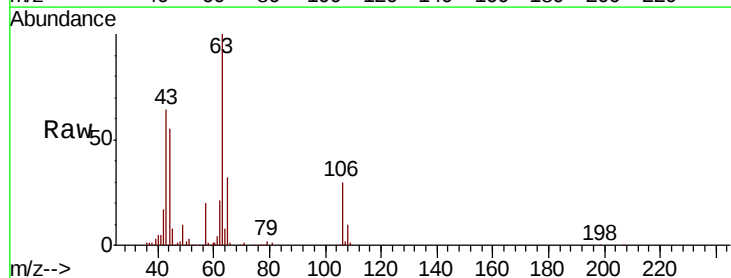
Instrument :
 MSVOA_D
 ClientSampleId :

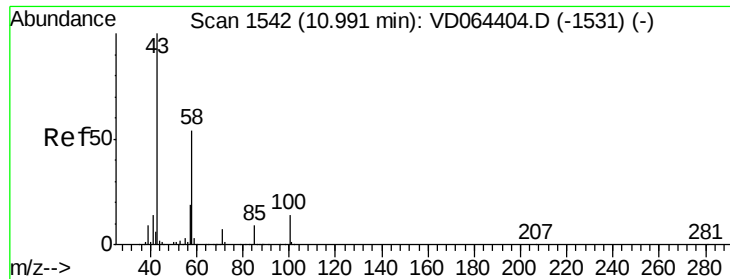
Tot Ion: 76 Resp: 111486
 Ion Ratio Lower Upper
 76 100
 78 32.8 26.0 39.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 112.488 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Tgt Ion: 63 Resp: 174210
 Ion Ratio Lower Upper
 63 100
 106 29.3 24.2 36.4

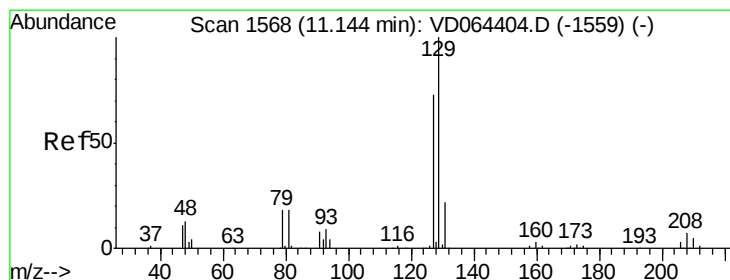
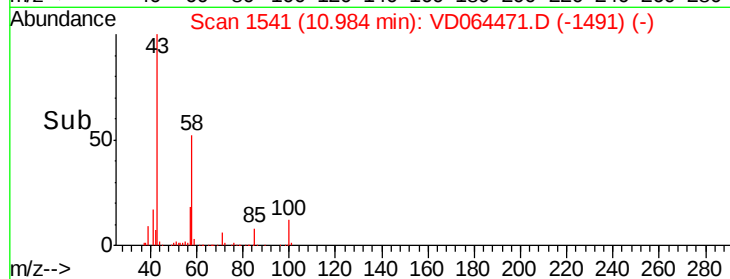
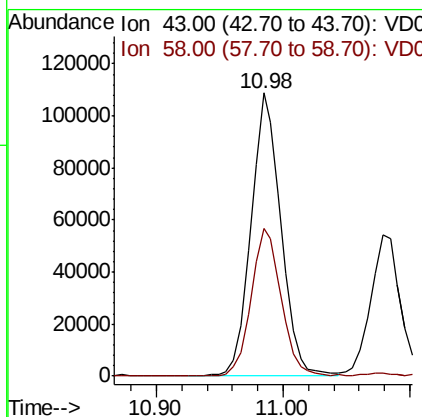
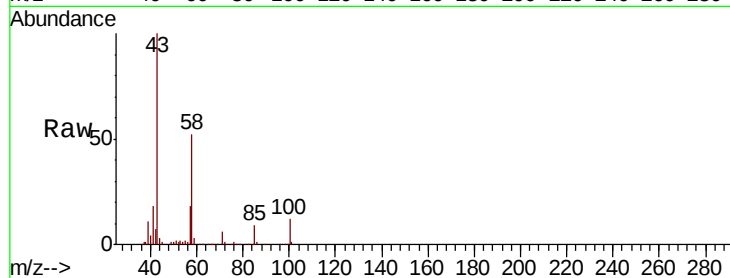




#59
2-Hexanone
Concen: 105.117 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

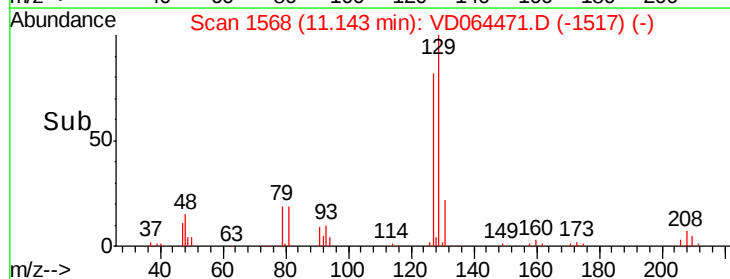
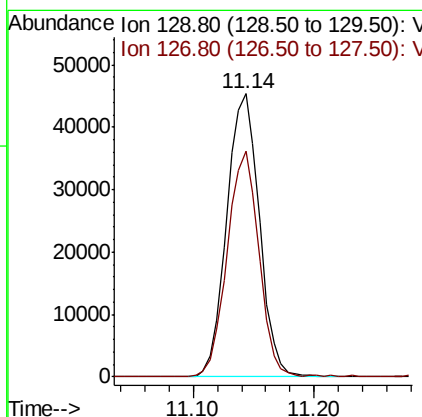
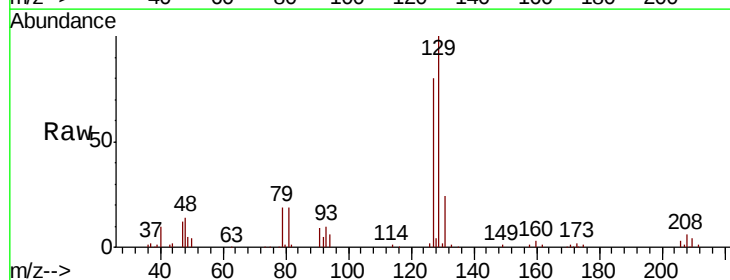
Instrument :
MSVOA_D
ClientSampleId :

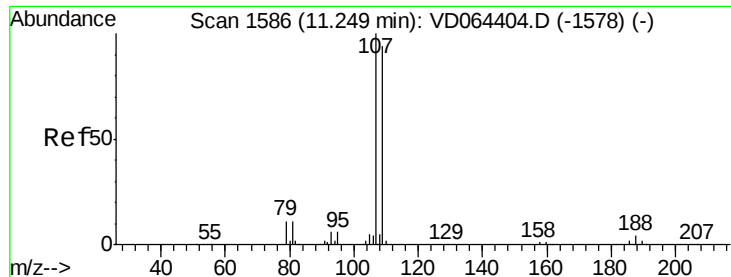
Tot Ion: 43 Resp: 178660
Ion Ratio Lower Upper
43 100
58 52.3 26.3 78.8



#60
Dibromochloromethane
Concen: 20.636 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 129 Resp: 85223
Ion Ratio Lower Upper
129 100
127 77.7 38.1 114.3





#61

1,2-Dibromoethane

Concen: 21.060 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

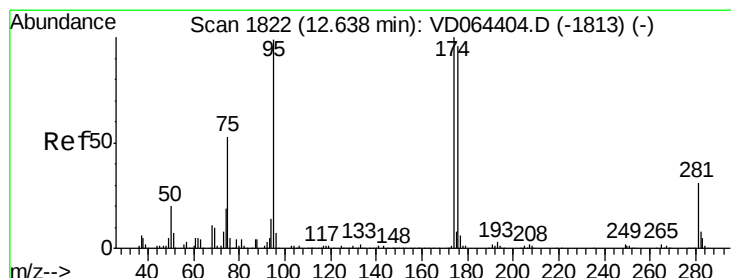
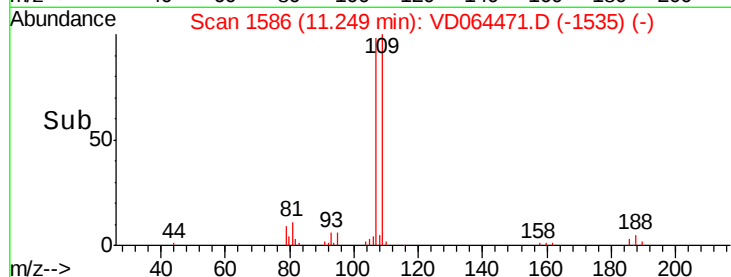
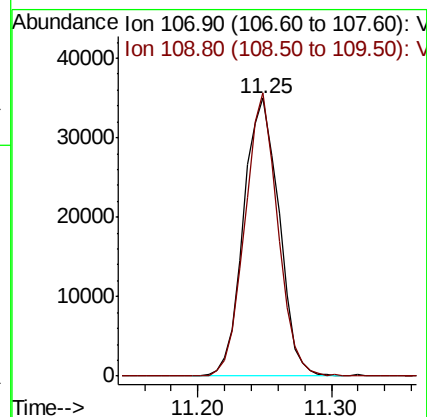
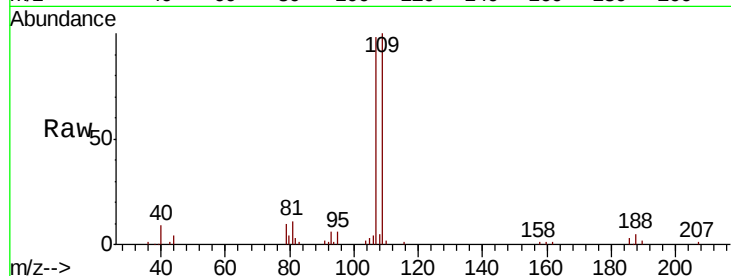
ClientSampleId :

Tot Ion:107 Resp: 64049

Ion Ratio Lower Upper

107 100

109 94.4 76.2 114.2



#62

4-Bromofluorobenzene

Concen: 50.568 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

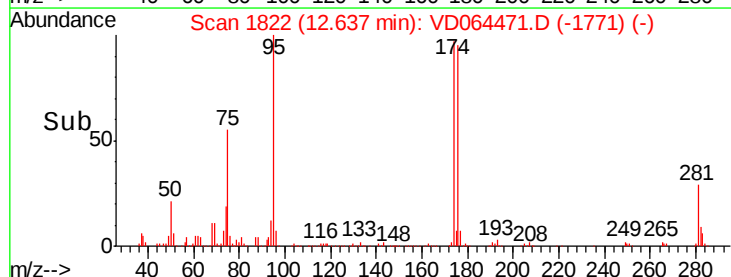
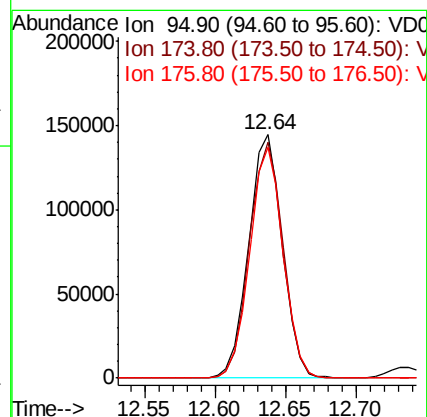
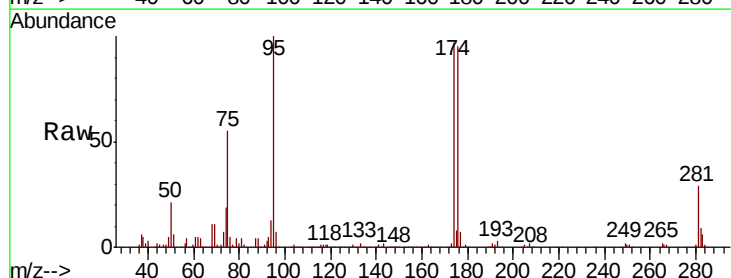
Tgt Ion: 95 Resp: 241955

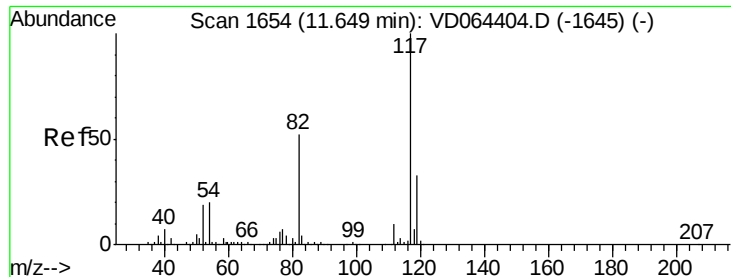
Ion Ratio Lower Upper

95 100

174 97.0 0.0 197.2

176 94.0 0.0 189.6

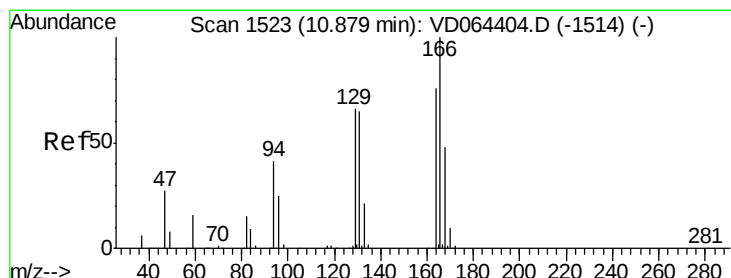
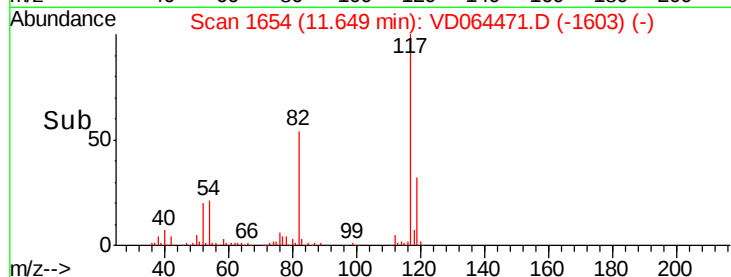
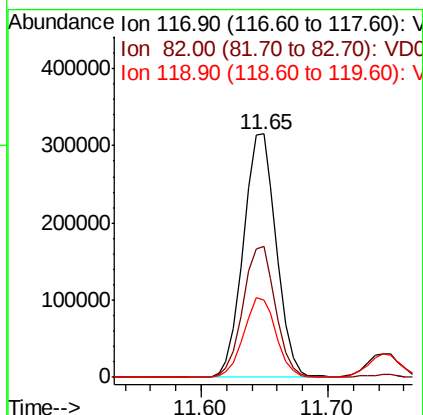
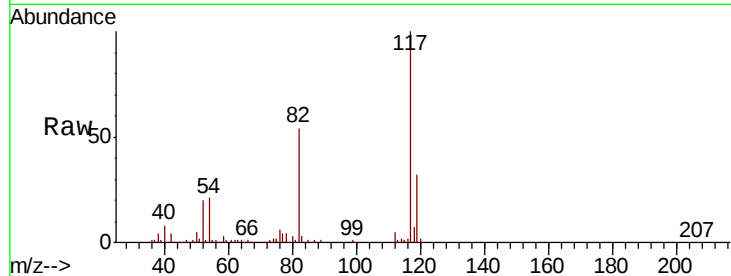




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

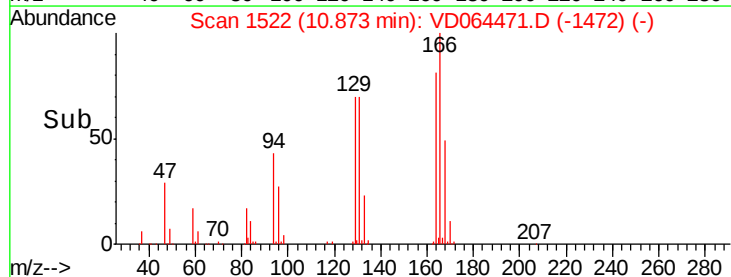
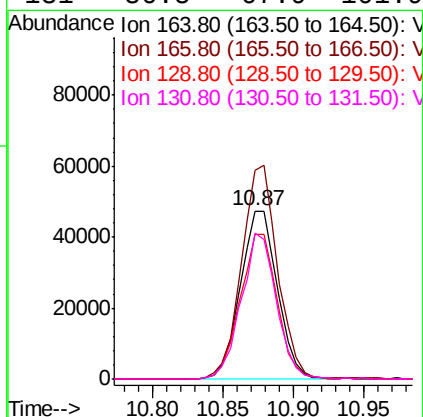
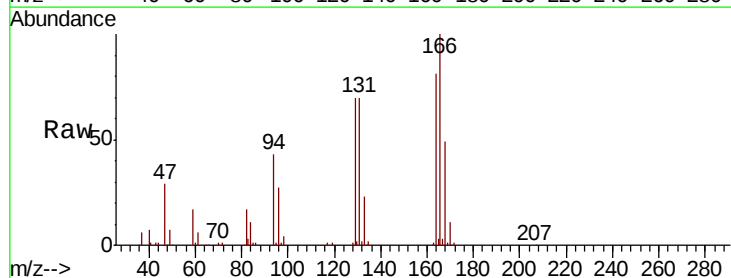
Instrument :
MSVOA_D
ClientSampleId :

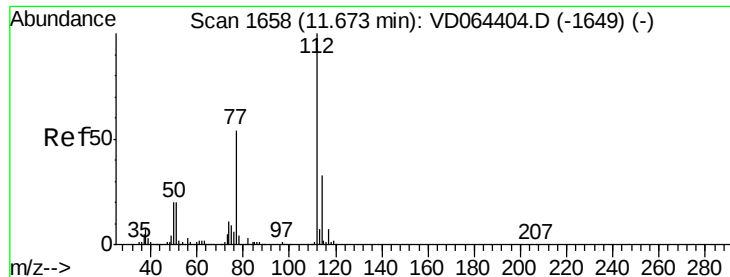
Tot Ion:117 Resp: 569681
Ion Ratio Lower Upper
117 100
82 53.9 41.4 62.2
119 32.0 26.2 39.2



#64
Tetrachloroethene
Concen: 20.058 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion:164 Resp: 87137
Ion Ratio Lower Upper
164 100
166 124.0 104.8 157.2
129 86.3 68.7 103.1
131 86.5 67.9 101.9





#65

Chlorobenzene

Concen: 19.377 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

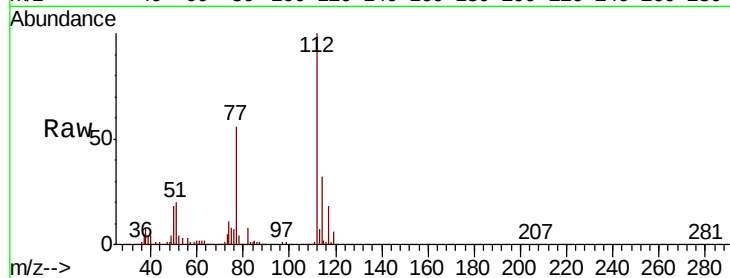
ClientSampleId :

Tot Ion:112 Resp: 230234

Ion Ratio Lower Upper

112 100

114 32.3 26.5 39.7



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.67

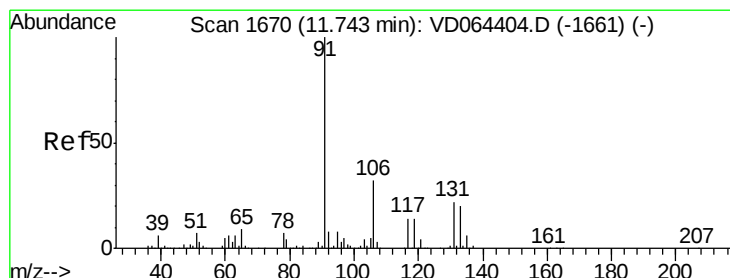
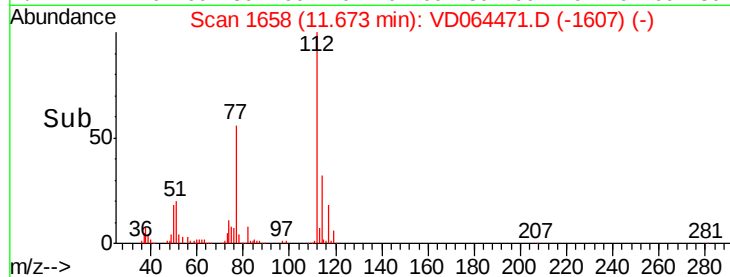
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.215 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

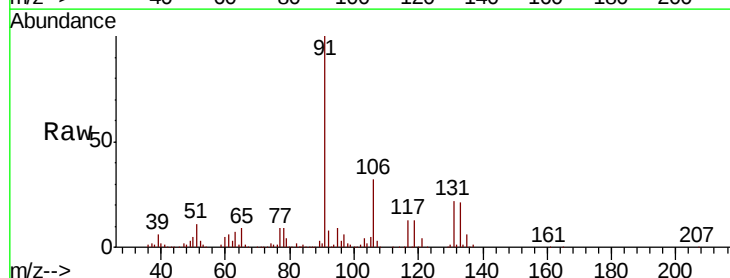
Tgt Ion:131 Resp: 88915

Ion Ratio Lower Upper

131 100

133 94.4 48.3 144.9

119 61.4 31.9 95.9



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

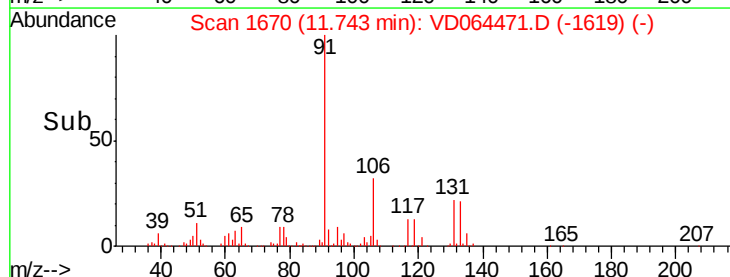
Ion 118.80 (118.50 to 119.50): V

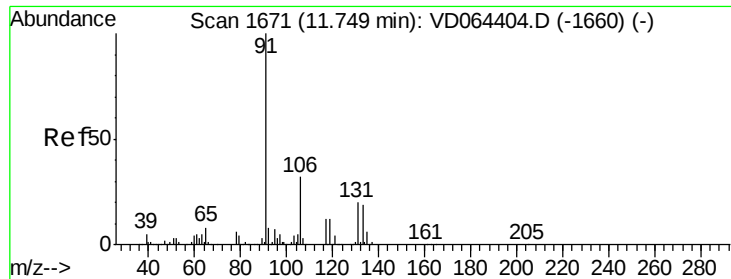
100000

50000

0

Time-->

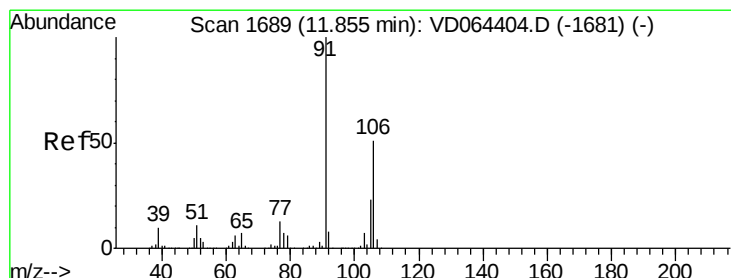
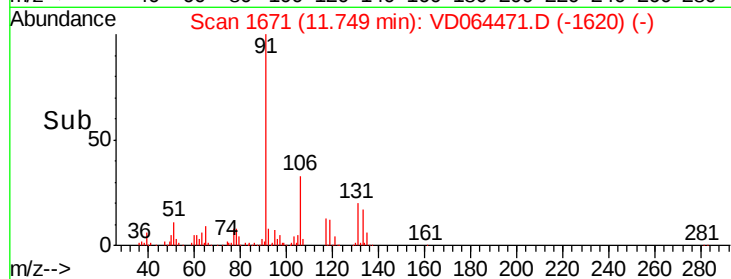
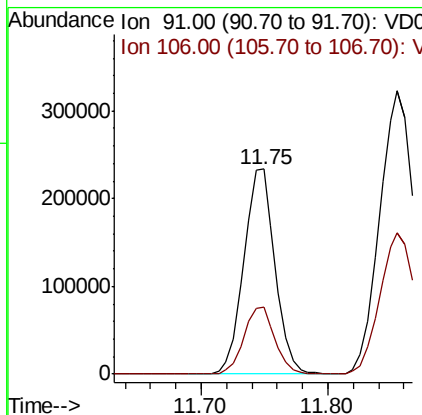
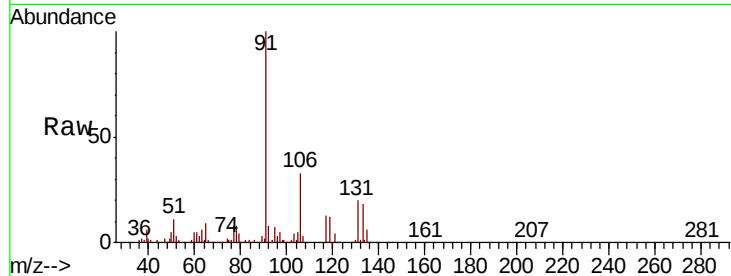




#67
Ethyl Benzene
Concen: 18.947 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

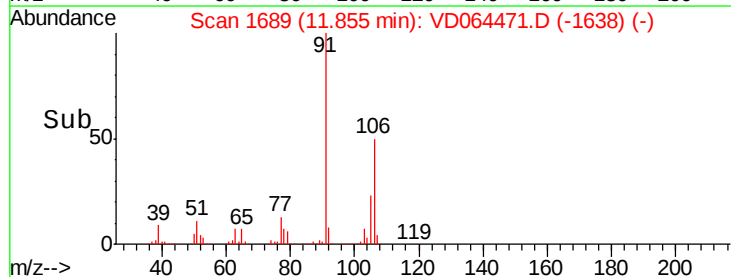
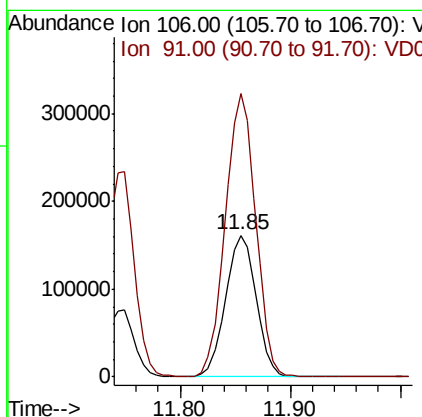
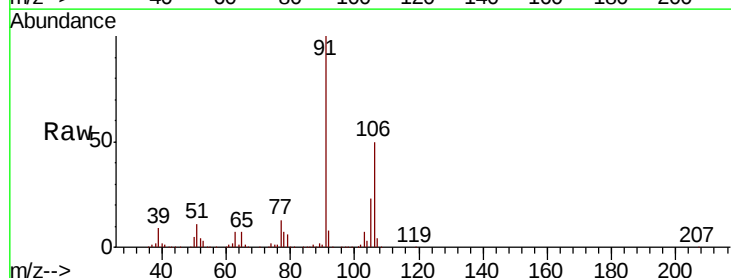
Instrument :
MSVOA_D
ClientSampled :

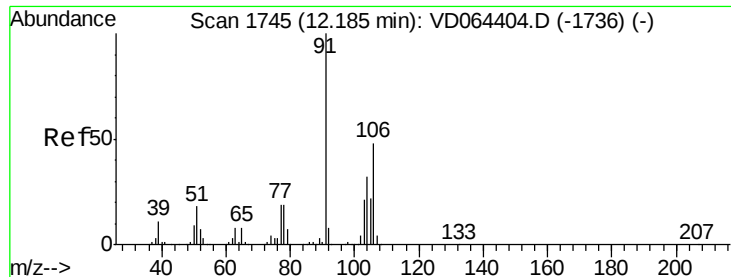
Tot Ion: 91 Resp: 400545
Ion Ratio Lower Upper
91 100
106 32.7 25.8 38.8



#68
m/p-Xylenes
Concen: 38.936 ug/l
RT: 11.85 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 106 Resp: 313844
Ion Ratio Lower Upper
106 100
91 198.5 157.4 236.2

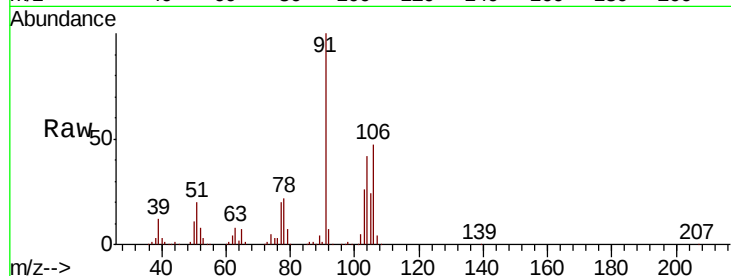




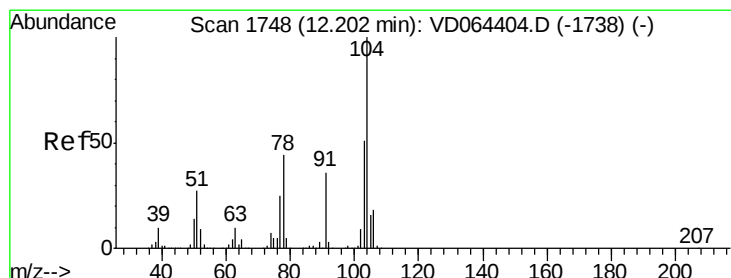
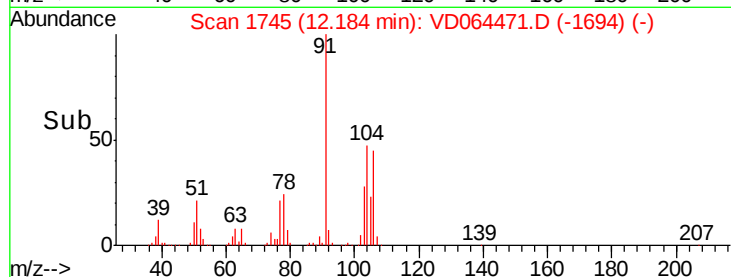
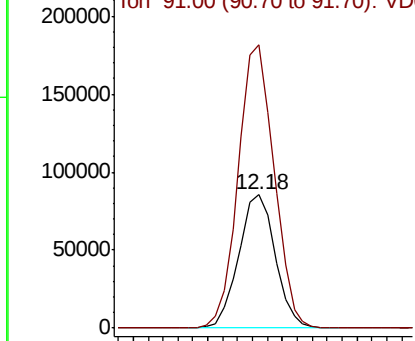
#69
o-Xylene
Concen: 19.512 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 145254
Ion Ratio Lower Upper
106 100
91 209.7 103.8 311.4

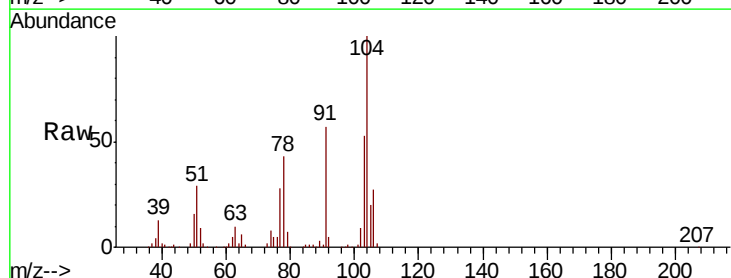


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

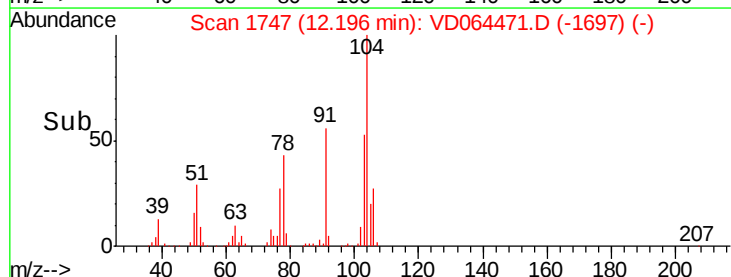
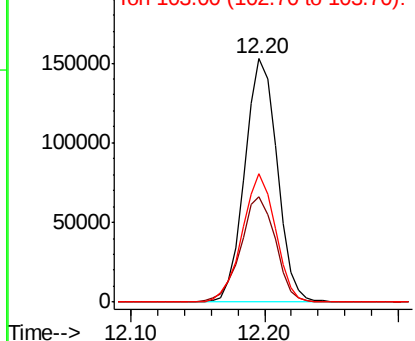


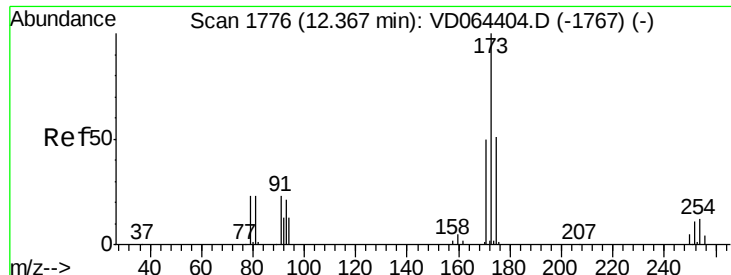
#70
Styrene
Concen: 19.723 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion:104 Resp: 255144
Ion Ratio Lower Upper
104 100
78 46.7 38.8 58.2
103 54.5 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

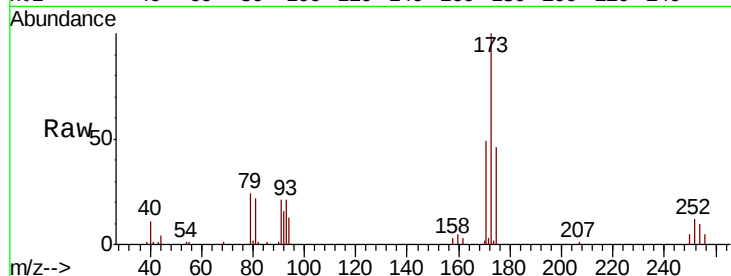




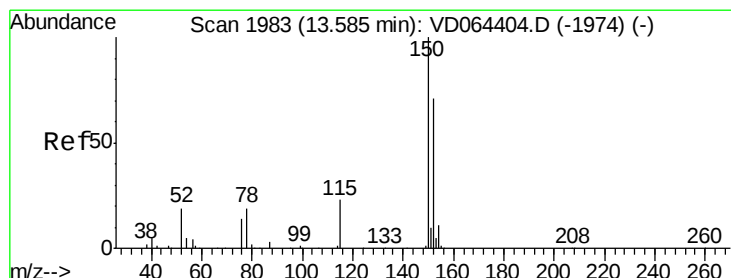
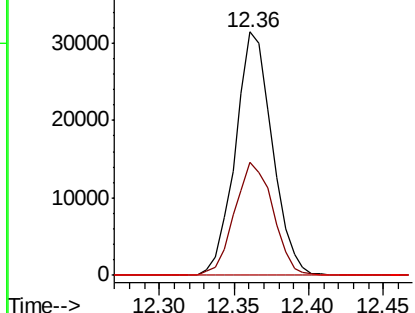
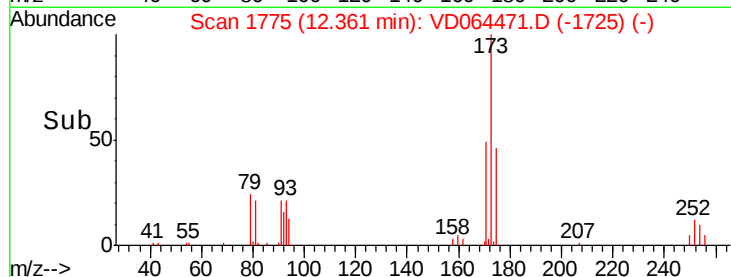
#71
Bromoform
Concen: 20.552 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:173 Resp: 54082
Ion Ratio Lower Upper
173 100
175 48.2 25.3 75.8
254 0.0 0.0 0.0

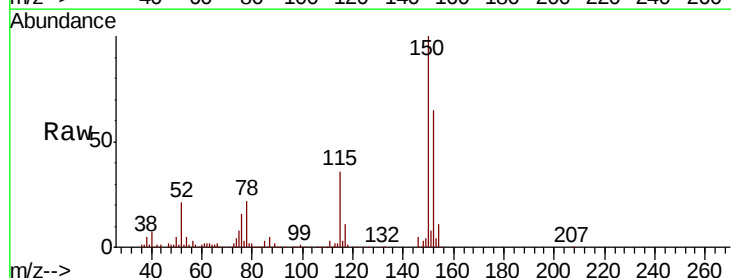


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

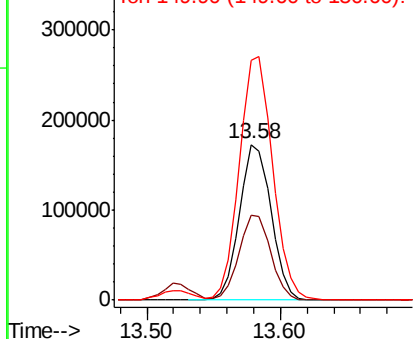
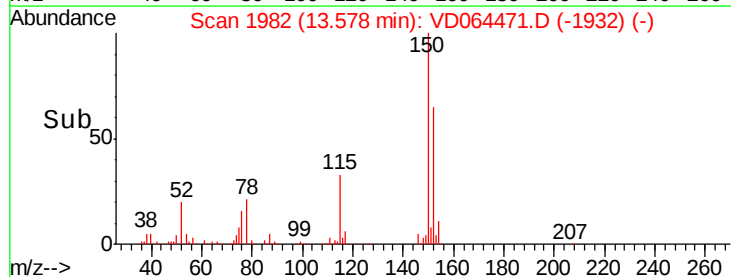


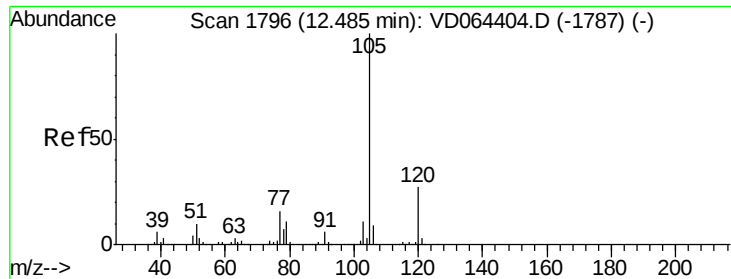
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion:152 Resp: 283641
Ion Ratio Lower Upper
152 100
115 54.6 26.7 80.1
150 164.8 0.0 347.2



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





#73

Isopropylbenzene

Concen: 19.144 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

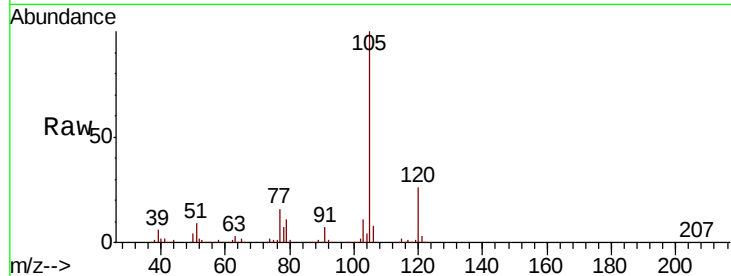
ClientSampled :

Tot Ion:105 Resp: 390535

Ion Ratio Lower Upper

105 100

120 26.6 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

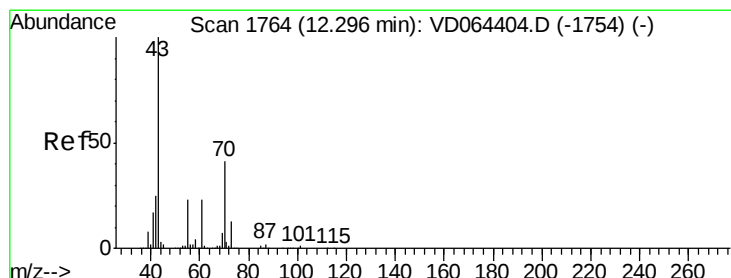
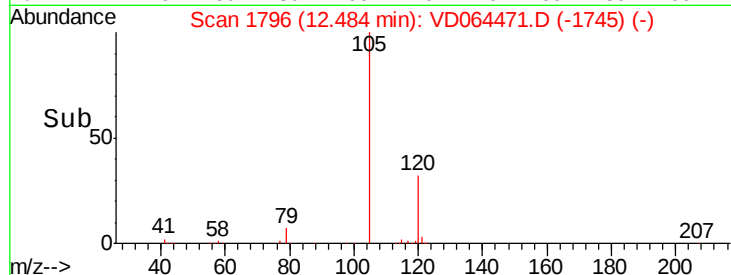
100000

50000

0

12.40 12.45 12.50 12.55

Time-->



#74

N-ethyl acetate

Concen: 20.351 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Tgt Ion: 43 Resp: 94226

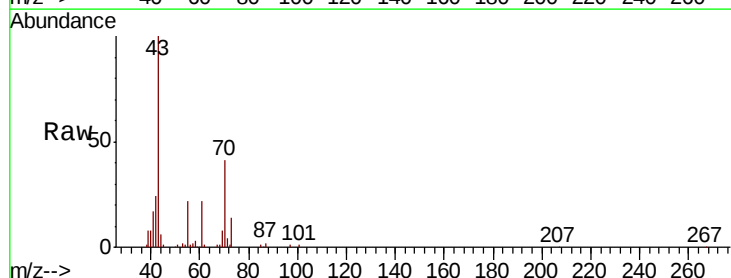
Ion Ratio Lower Upper

43 100

70 41.6 33.4 50.2

55 23.1 18.9 28.3

61 22.4 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

80000

60000

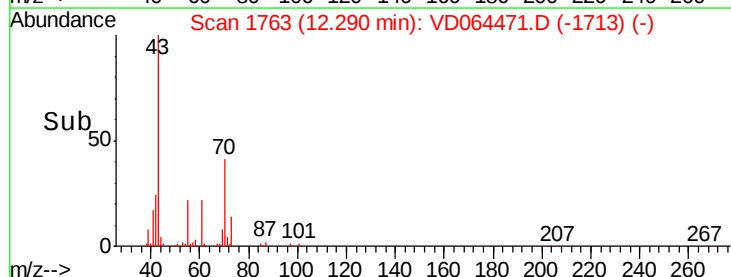
40000

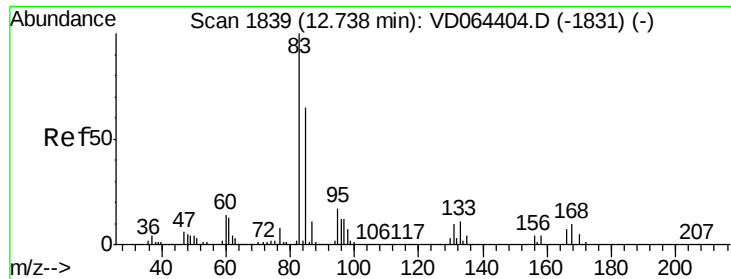
20000

0

12.20 12.30 12.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.561 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

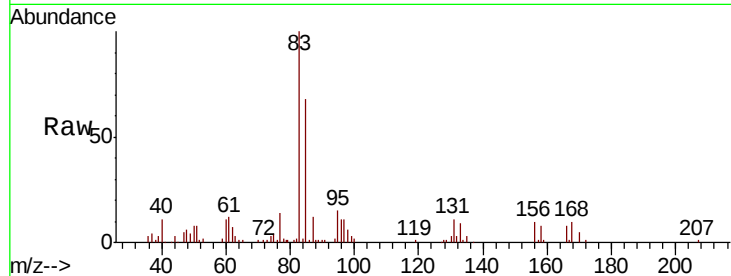
Tot Ion: 83 Resp: 69363

Ion Ratio Lower Upper

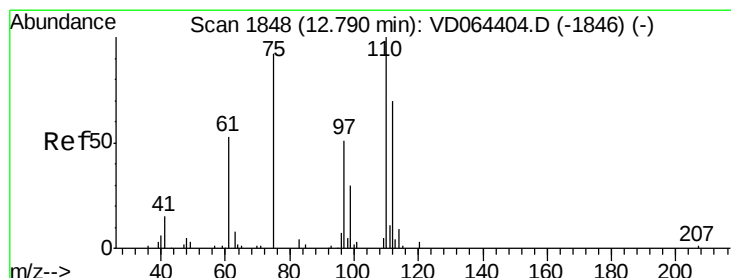
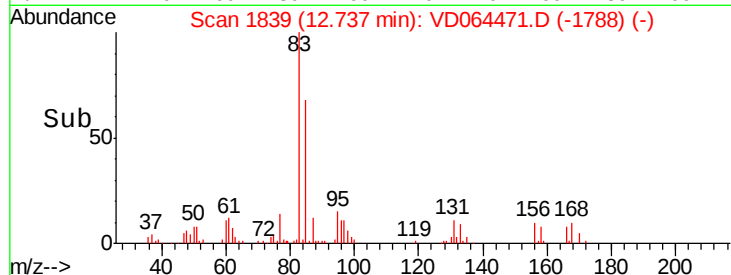
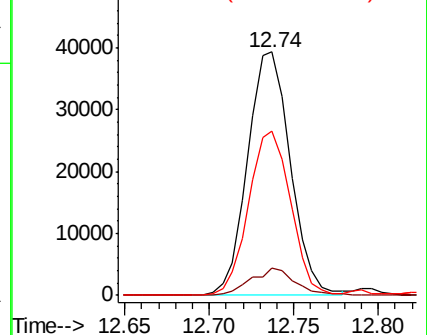
83 100

131 11.3 5.7 17.0

85 66.3 31.3 93.9



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



#76

1,2,3-Trichloropropane

Concen: 38.339 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. -0.00 min

Lab File: VD064471.D

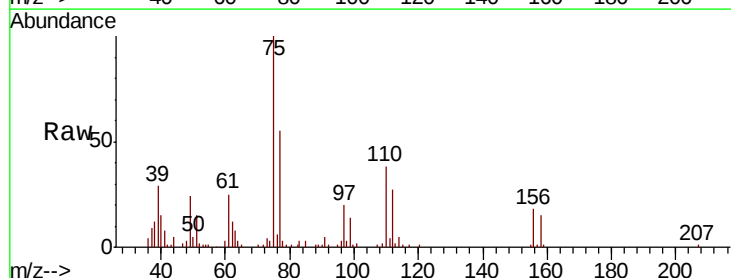
Acq: 09 Dec 2019 13:08

Tgt Ion: 75 Resp: 89428

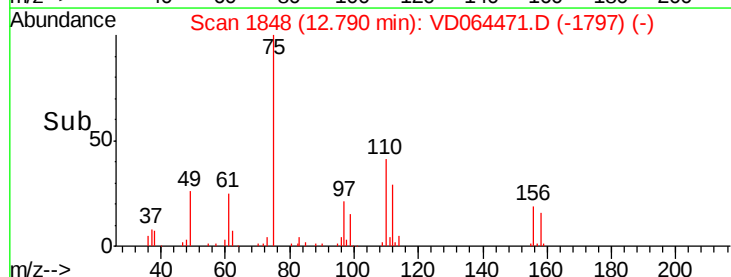
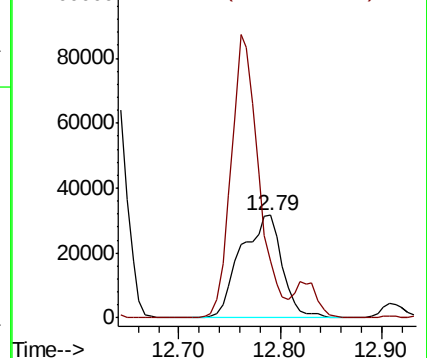
Ion Ratio Lower Upper

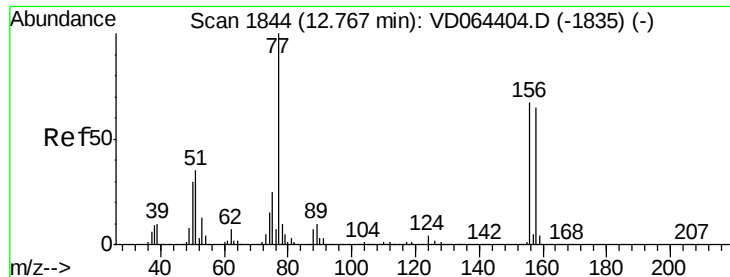
75 100

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: 19.749 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

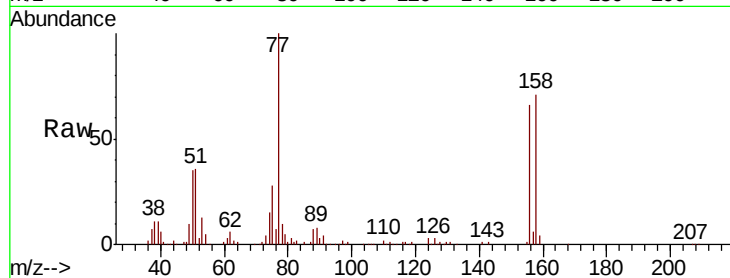
Tot Ion:156 Resp: 99486

Ion Ratio Lower Upper

156 100

77 166.6 80.0 240.2

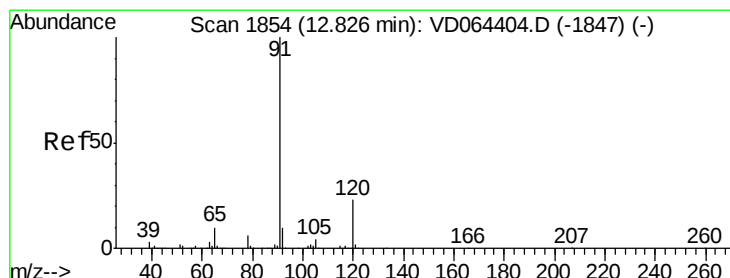
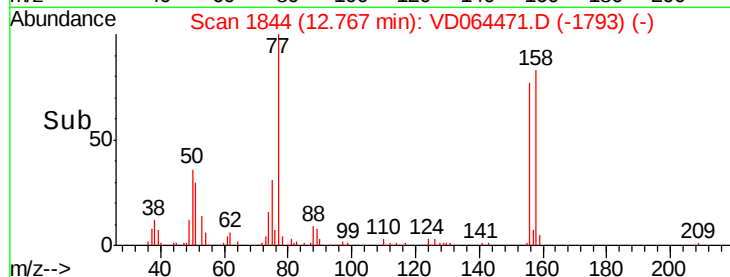
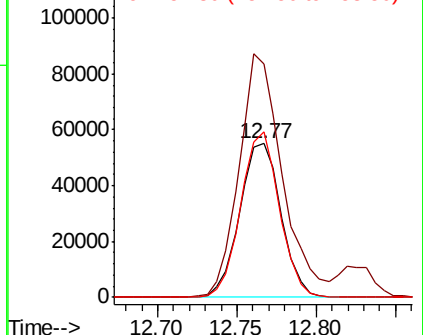
158 100.7 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.144 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064471.D

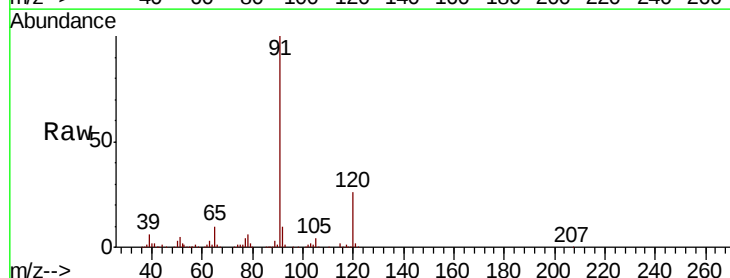
Acq: 09 Dec 2019 13:08

Tgt Ion: 91 Resp: 450589

Ion Ratio Lower Upper

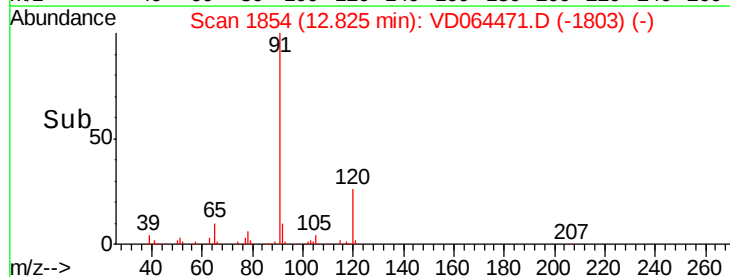
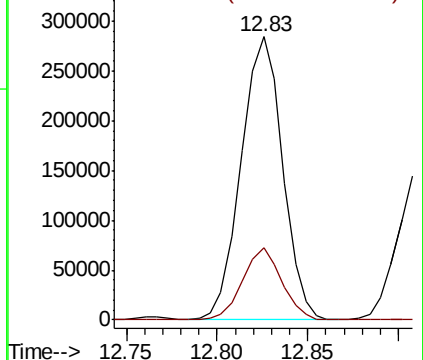
91 100

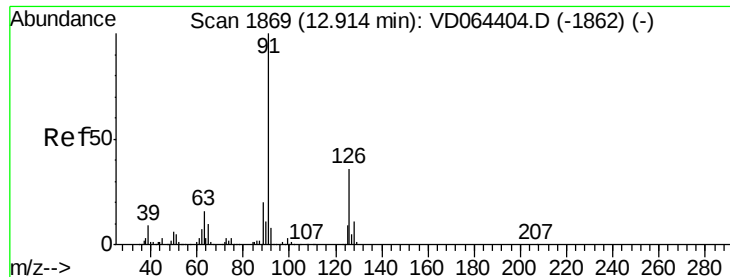
120 24.0 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

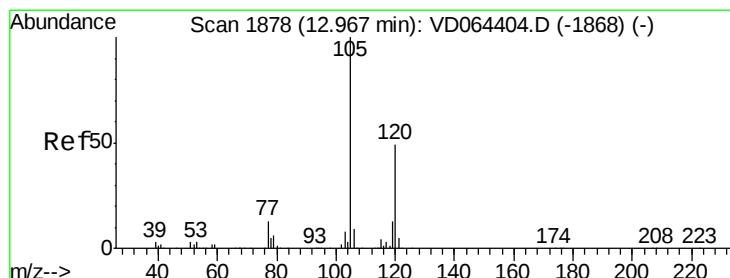
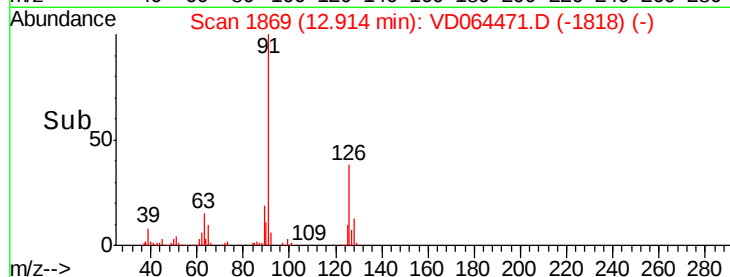
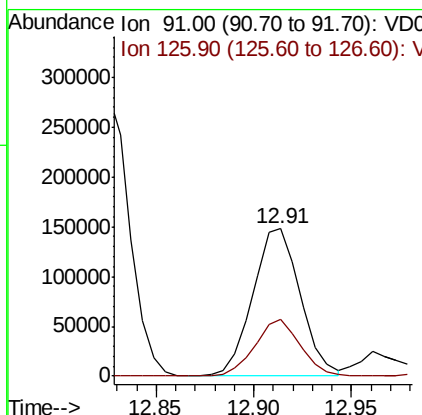
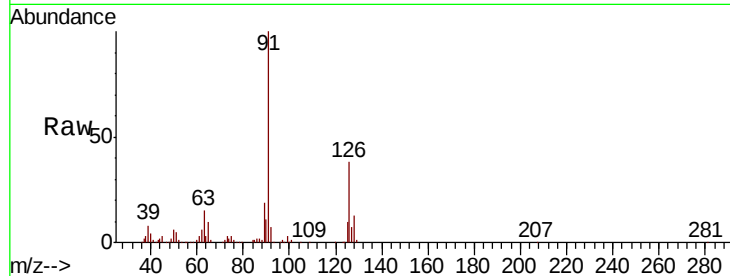




#79
 2-Chlorotoluene
 Concen: 19.160 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. -0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

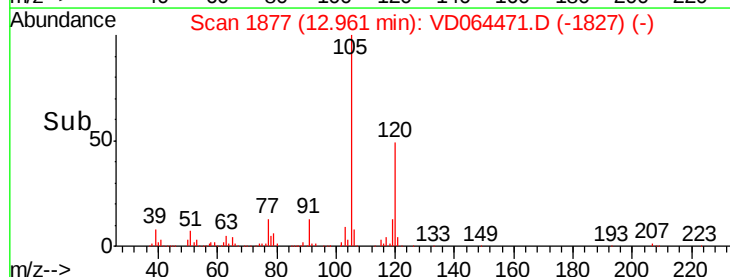
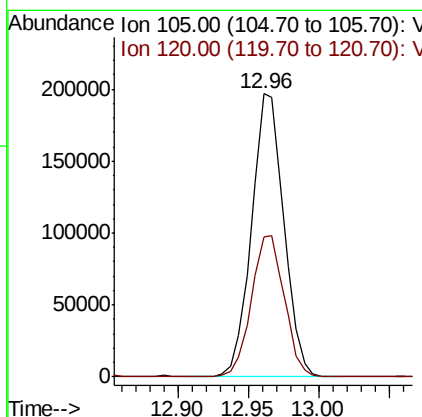
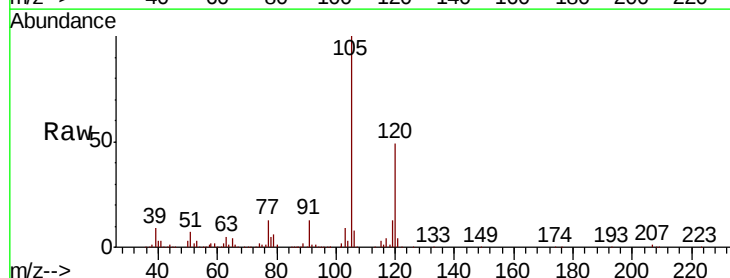
Instrument :
 MSVOA_D
 ClientSampleId :

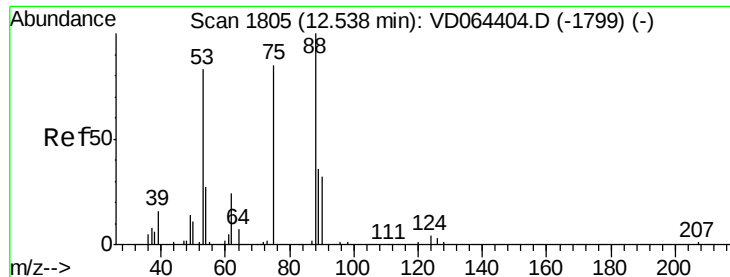
Tot Ion: 91 Resp: 248146
 Ion Ratio Lower Upper
 91 100
 126 37.0 18.0 54.0



#80
 1,3,5-Trimethylbenzene
 Concen: 19.064 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.01 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Tgt Ion:105 Resp: 317813
 Ion Ratio Lower Upper
 105 100
 120 50.7 25.1 75.3

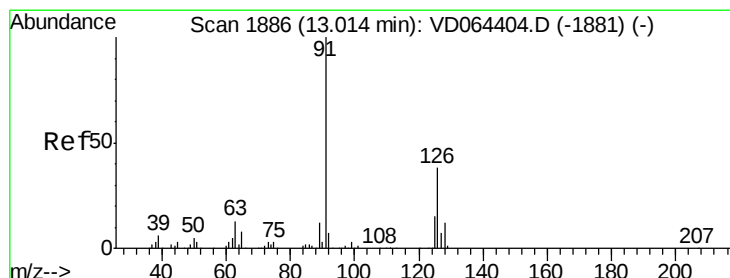
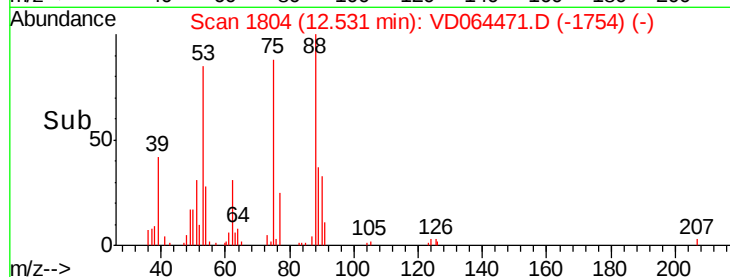
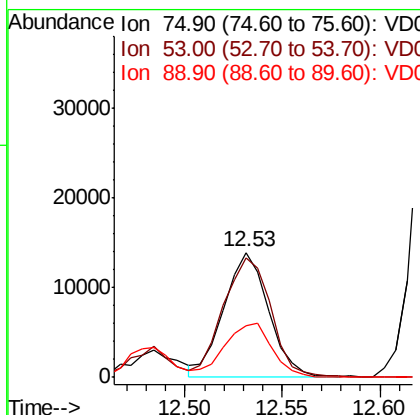
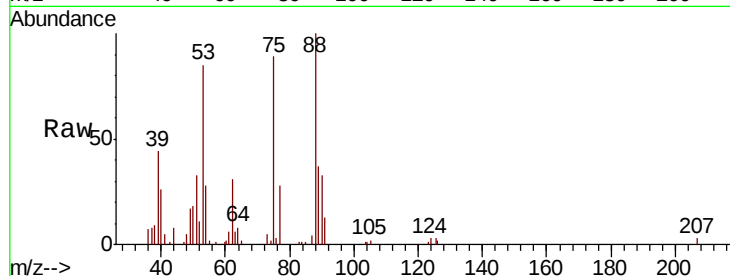




#81
trans-1,4-Dichloro-2-butene
Concen: 20.802 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

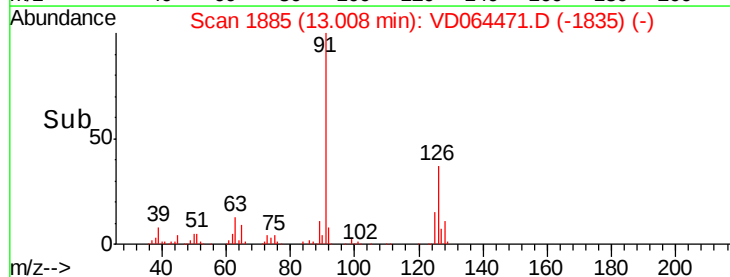
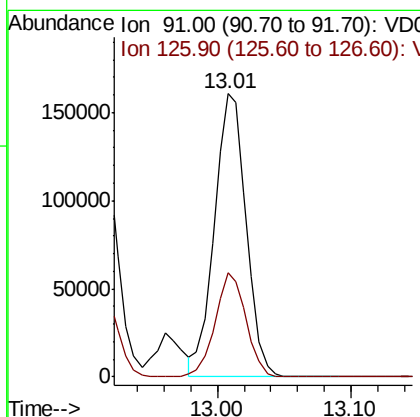
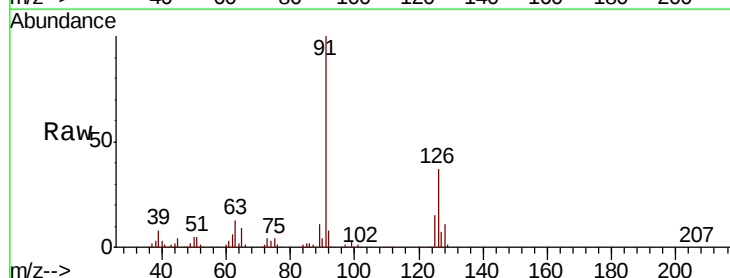
Instrument :
MSVOA_D
ClientSampleId :

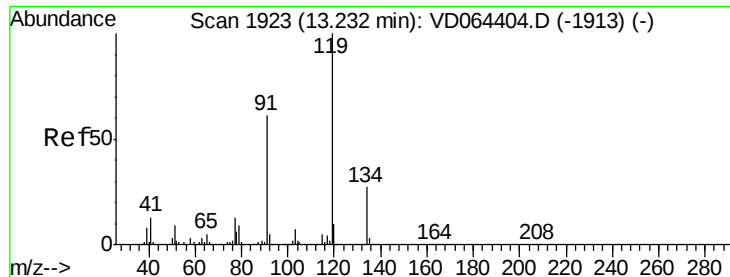
Tot Ion: 75 Resp: 22253
Ion Ratio Lower Upper
75 100
53 102.5 81.0 121.6
89 45.8 38.5 57.7



#82
4-Chlorotoluene
Concen: 19.532 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 91 Resp: 267838
Ion Ratio Lower Upper
91 100
126 35.8 18.2 54.6





#83

tert-Butylbenzene

Concen: 18.937 ug/l

RT: 13.23 min Scan# 1922

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampleId :

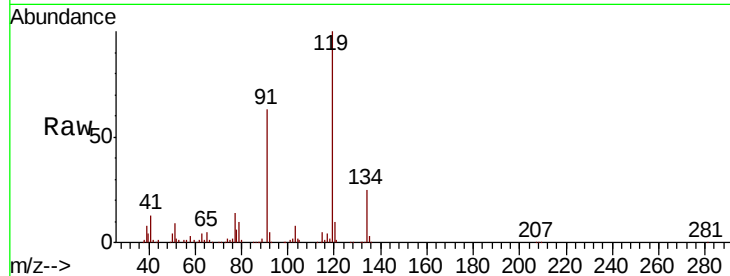
Tot Ion:119 Resp: 274451

Ion Ratio Lower Upper

119 100

91 61.9 31.2 93.6

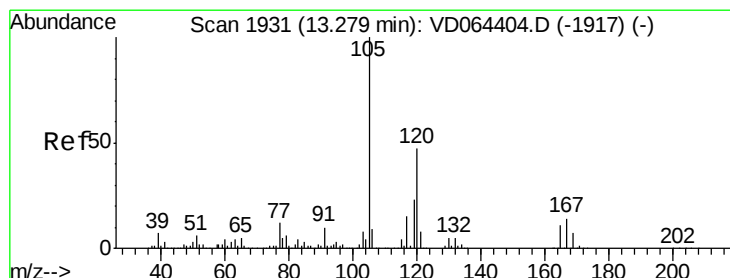
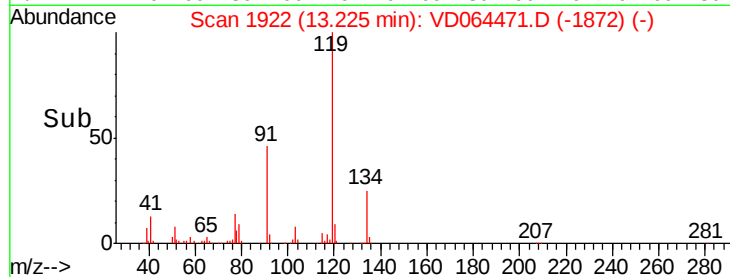
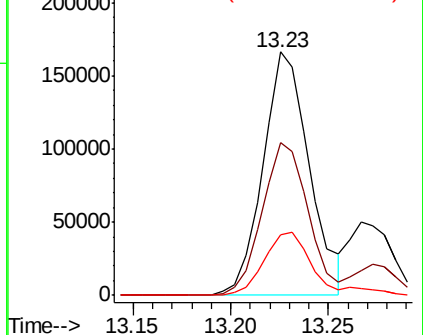
134 27.9 13.9 41.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.376 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064471.D

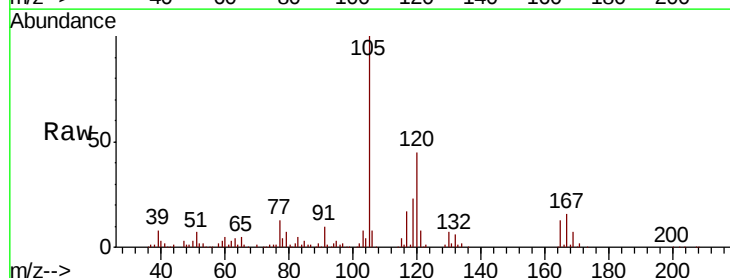
Acq: 09 Dec 2019 13:08

Tgt Ion:105 Resp: 324803

Ion Ratio Lower Upper

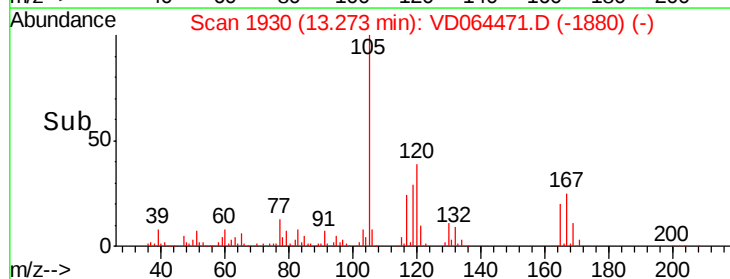
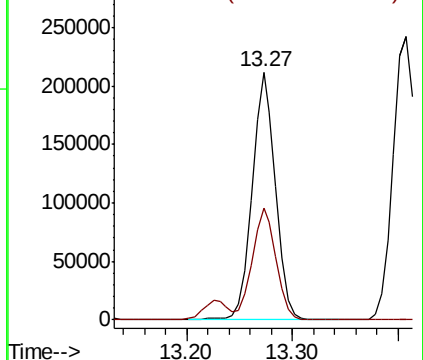
105 100

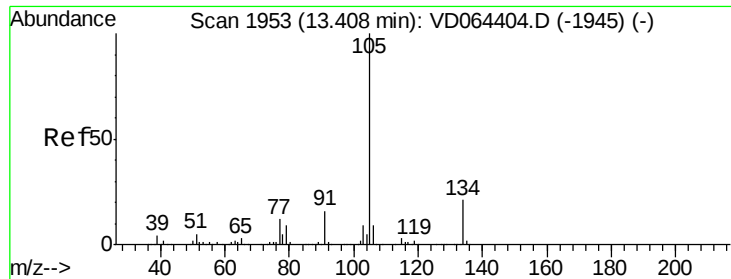
120 46.3 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 19.226 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

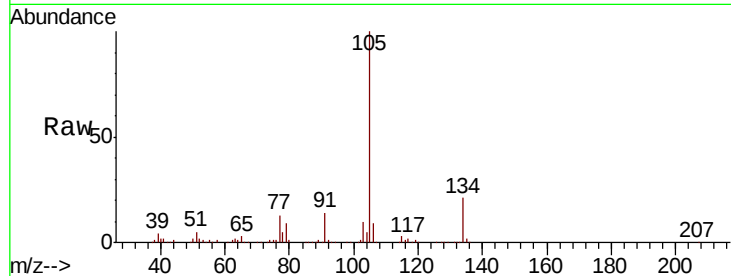
ClientSampled :

Tot Ion:105 Resp: 382433

Ion Ratio Lower Upper

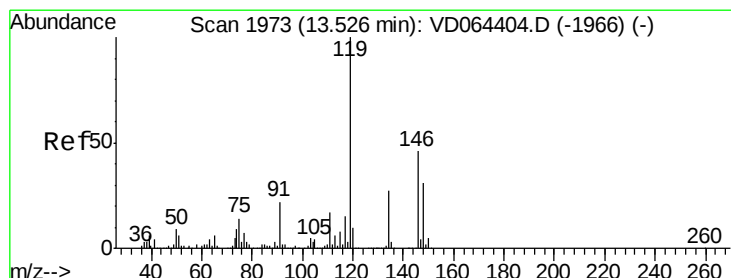
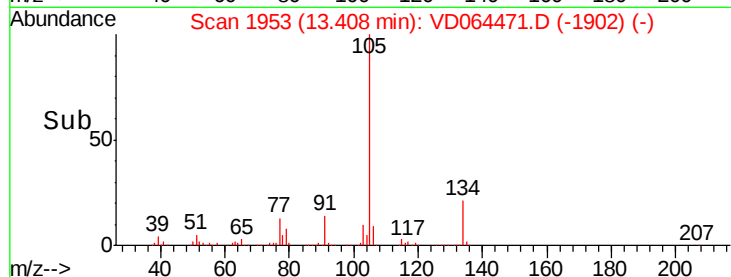
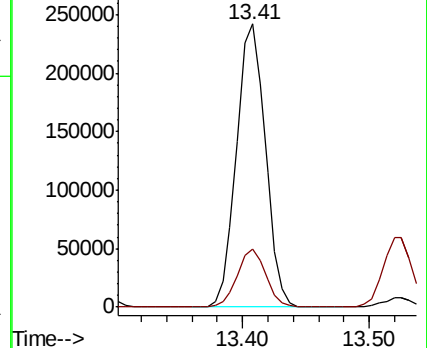
105 100

134 20.1 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 18.609 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

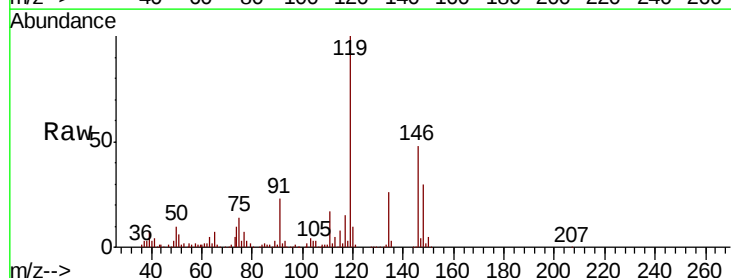
Tgt Ion:119 Resp: 349457

Ion Ratio Lower Upper

119 100

134 27.2 13.5 40.4

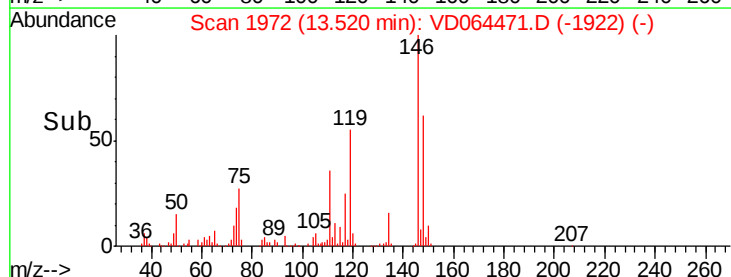
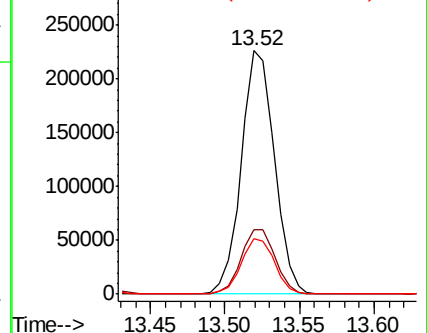
91 23.0 11.2 33.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.188 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampled :

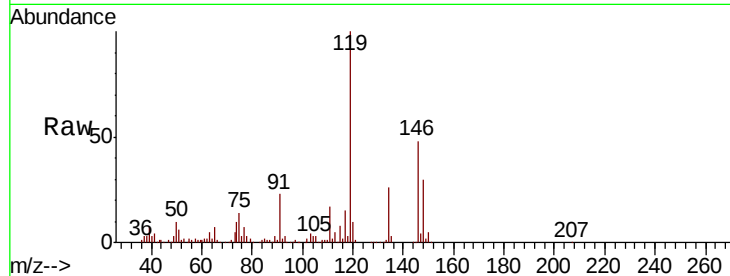
Tot Ion:146 Resp: 183462

Ion Ratio Lower Upper

146 100

111 37.6 18.8 56.4

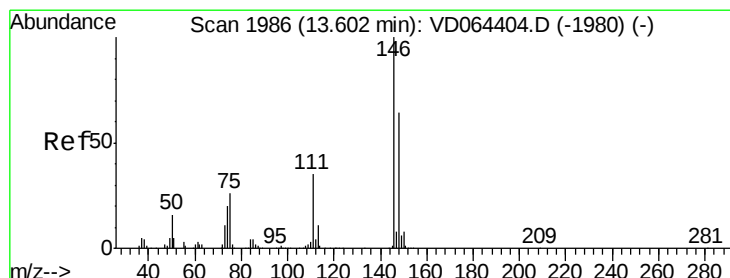
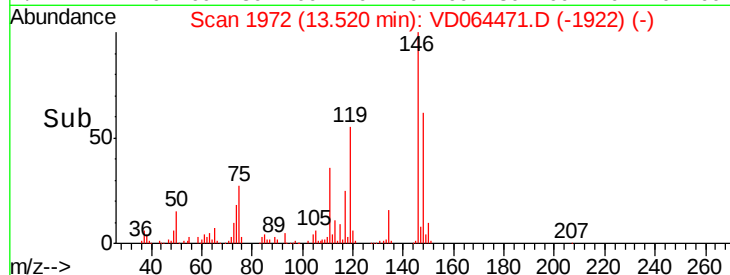
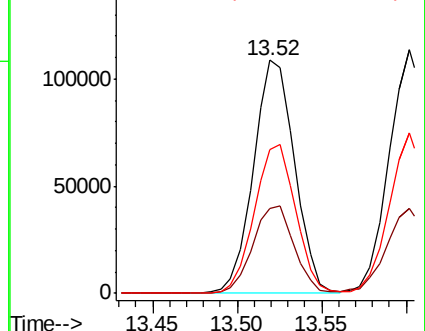
148 63.8 32.6 97.8



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



#88

1,4-Dichlorobenzene

Concen: 19.608 ug/l

RT: 13.60 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

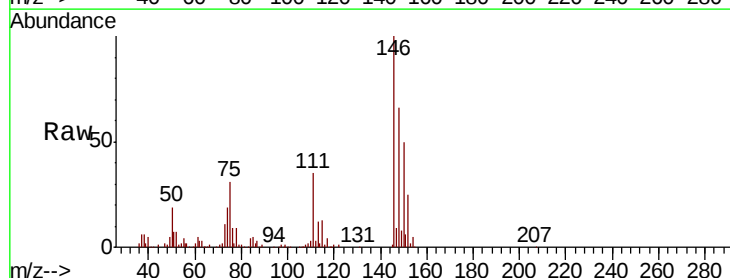
Tgt Ion:146 Resp: 185097

Ion Ratio Lower Upper

146 100

111 36.9 18.2 54.6

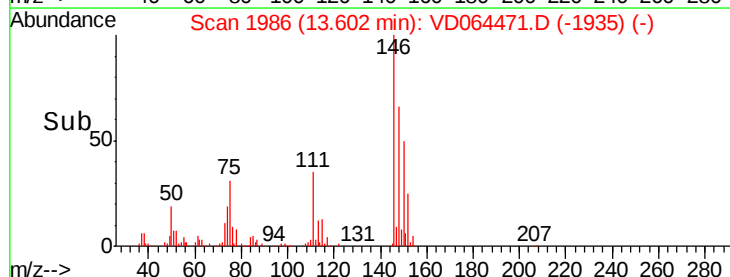
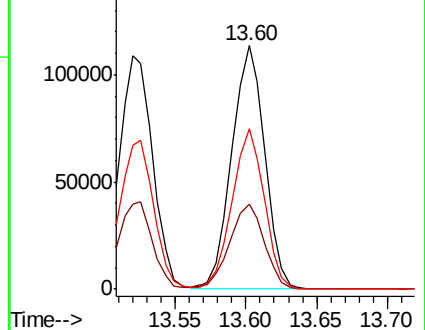
148 64.1 31.8 95.4

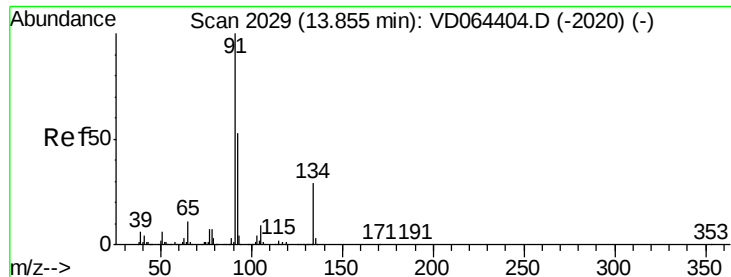


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

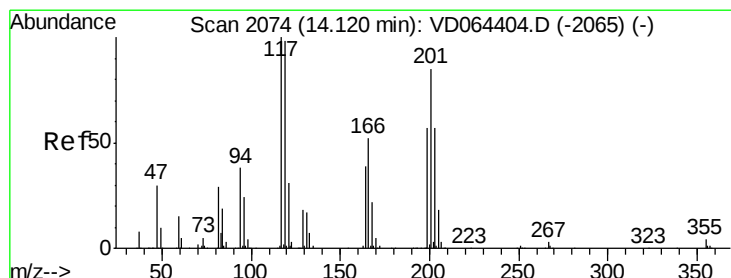
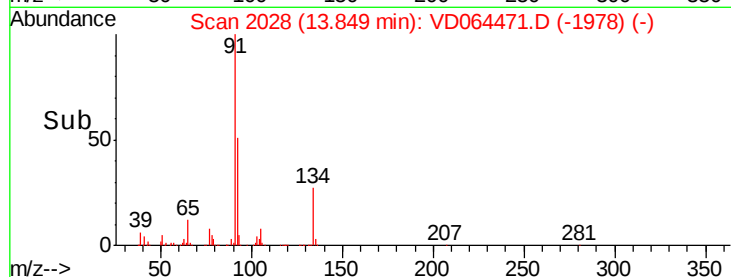
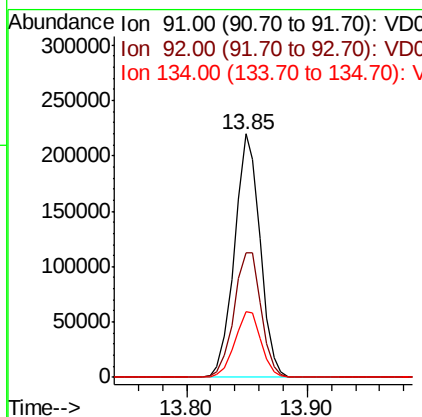
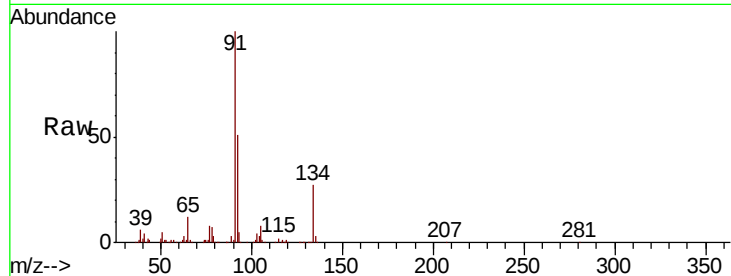




#89
n-Butylbenzene
Concen: 19.004 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.01 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

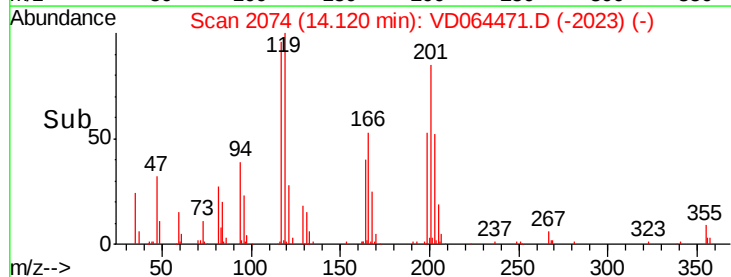
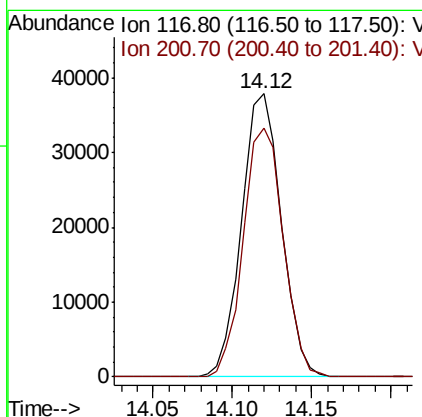
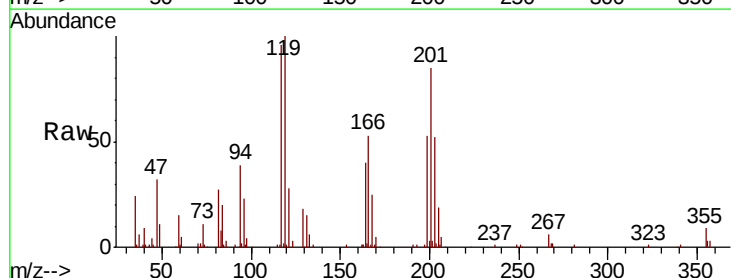
Instrument :
MSVOA_D
ClientSampled :

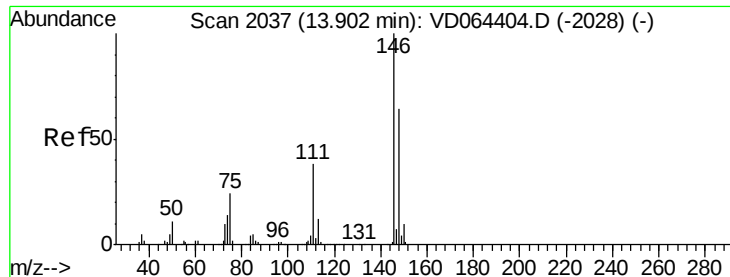
Tot Ion: 91 Resp: 324088
Ion Ratio Lower Upper
91 100
92 54.2 26.5 79.4
134 27.7 13.9 41.7



#90
Hexachloroethane
Concen: 18.814 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.00 min
Lab File: VD064471.D
Acq: 09 Dec 2019 13:08

Tgt Ion: 117 Resp: 66084
Ion Ratio Lower Upper
117 100
201 88.4 44.3 132.8

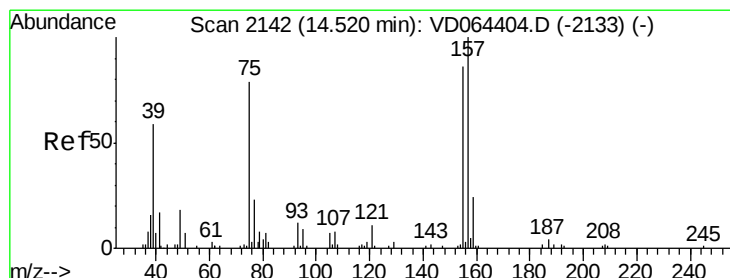
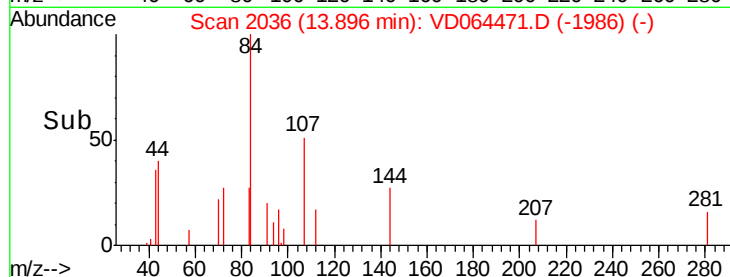
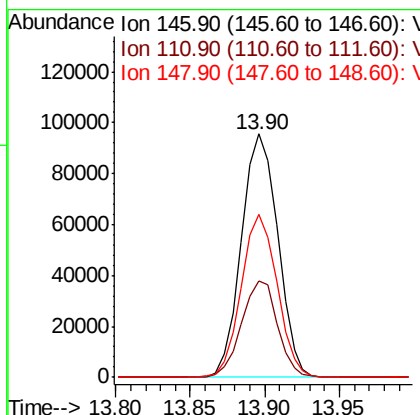
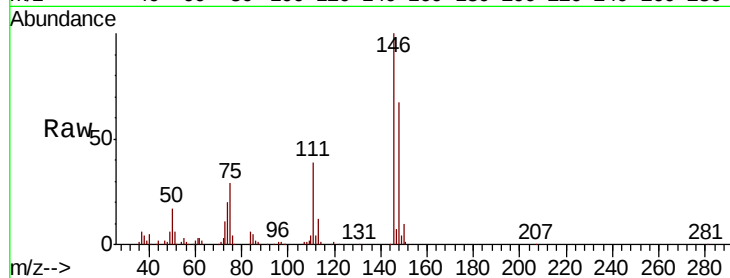




#91
 1,2-Dichlorobenzene
 Concen: 19.782 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

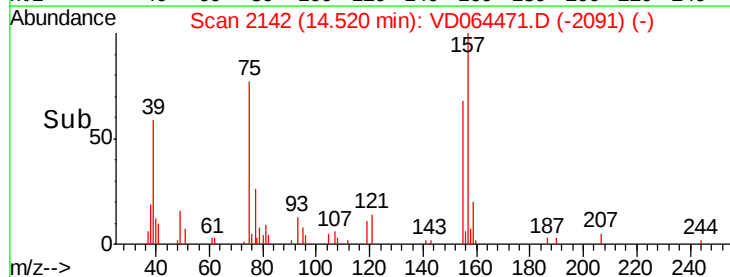
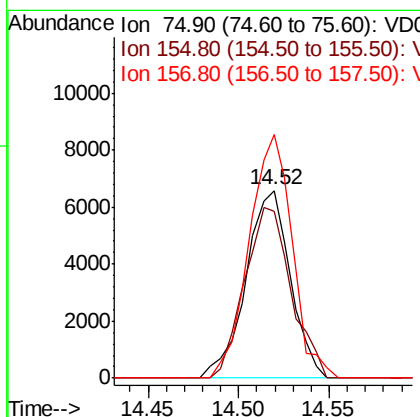
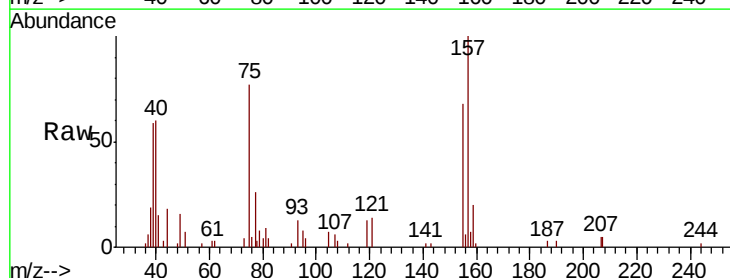
Instrument :
 MSVOA_D
 ClientSampleId :

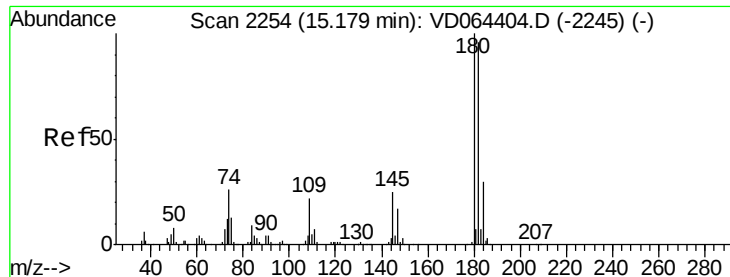
Tot Ion:146 Resp: 161643
 Ion Ratio Lower Upper
 146 100
 111 39.1 19.1 57.3
 148 65.8 32.0 96.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.560 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Tgt Ion: 75 Resp: 11204
 Ion Ratio Lower Upper
 75 100
 155 95.0 51.9 155.7
 157 125.2 63.2 189.8

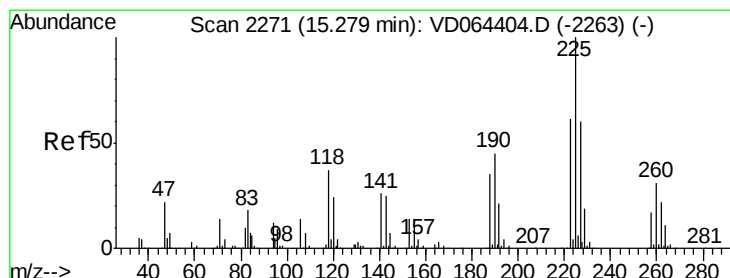
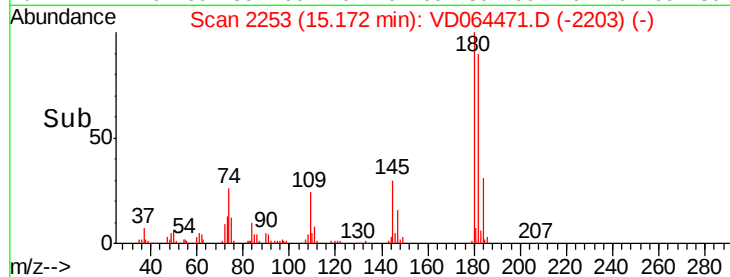
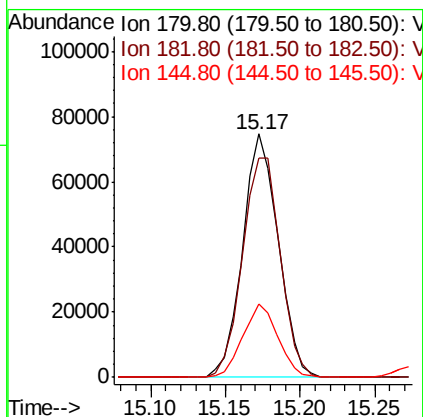
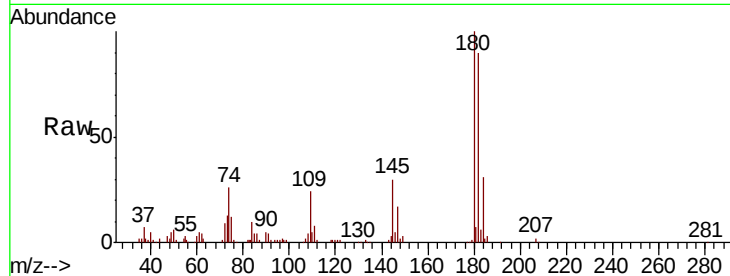




#93
 1,2,4-Trichlorobenzene
 Concen: 19.666 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

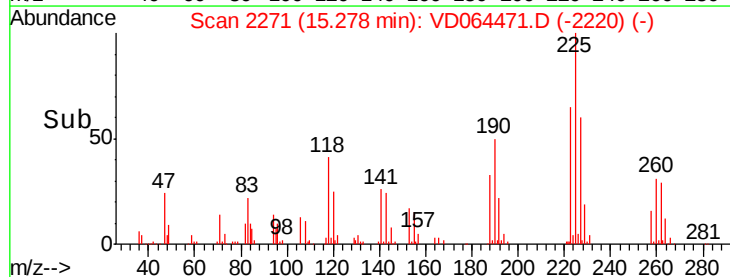
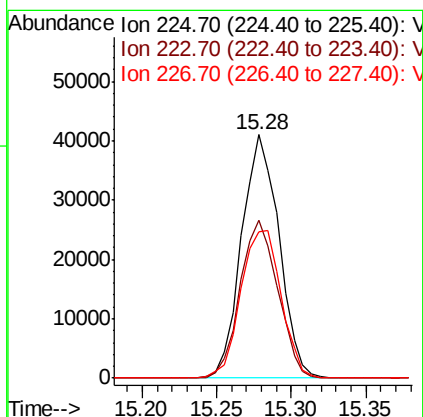
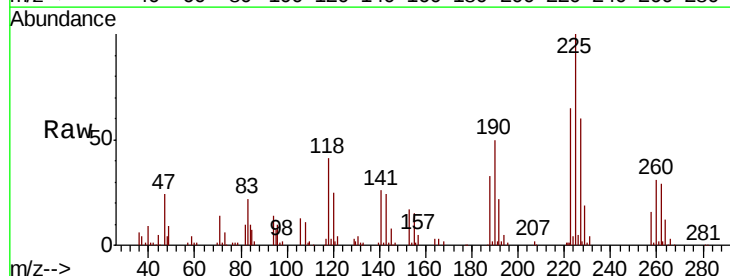
Instrument :
 MSVOA_D
 ClientSampleId :

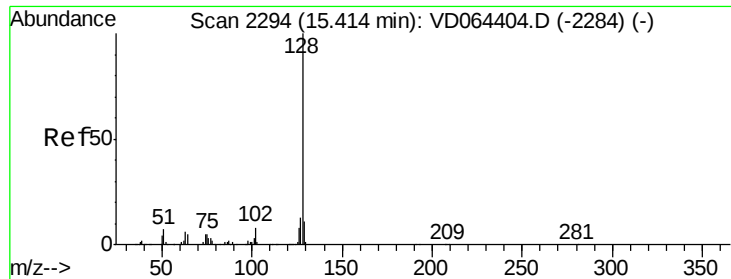
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.4	142.3
145	29.8	14.0	41.9



#94
 Hexachlorobutadiene
 Concen: 18.415 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VD064471.D
 Acq: 09 Dec 2019 13:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.2	31.1	93.3
227	65.2	31.8	95.4





#95

Naphthalene

Concen: 19.572 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

Instrument :

MSVOA_D

ClientSampled :

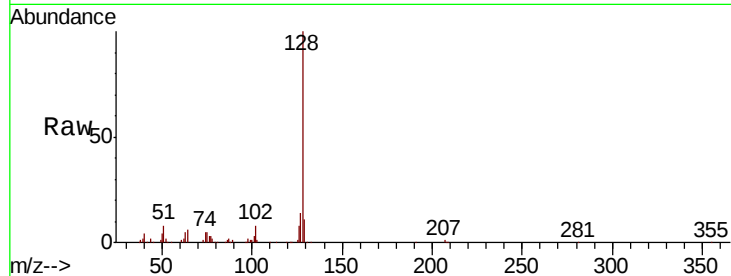
Tot Ion:128 Resp: 204401

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

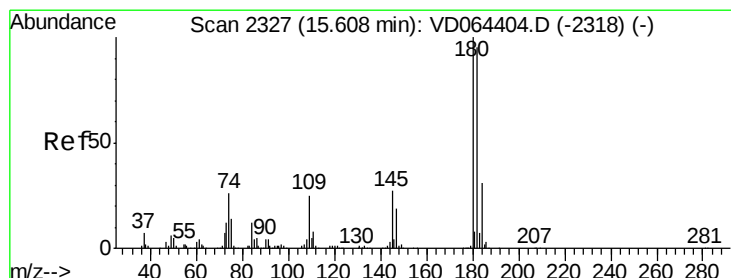
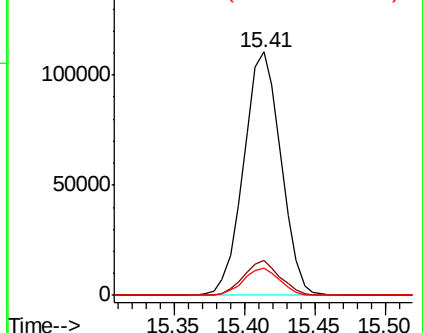
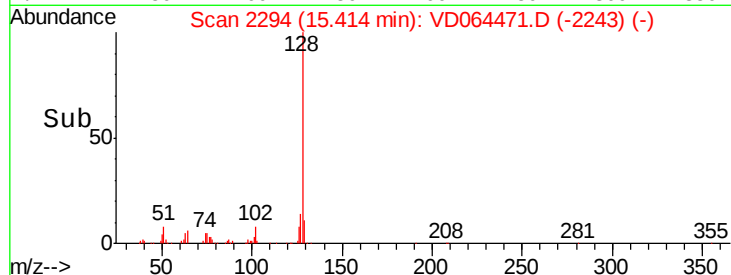
129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.970 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VD064471.D

Acq: 09 Dec 2019 13:08

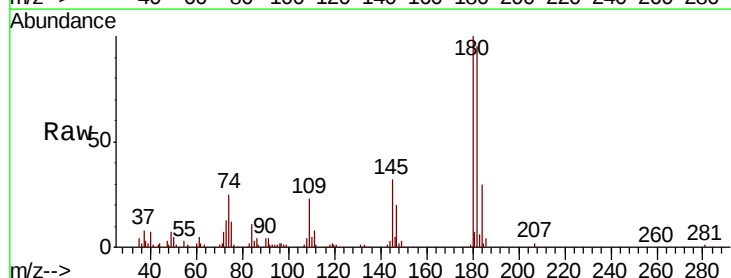
Tgt Ion:180 Resp: 106678

Ion Ratio Lower Upper

180 100

182 93.5 47.6 142.9

145 30.5 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

