

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120419\
 Data File : VD064411.D
 Acq On : 04 Dec 2019 12:30
 Operator : VA/SY
 Sample : VD1204SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 05 03:48:03 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	538442	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	772927	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	659725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	317438	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	232267	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	
35) Dibromofluoromethane	7.91	113	241647	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
50) Toluene-d8	10.34	98	943568	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.64	95	291452	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	105178	21.558	ug/l	100
3) Chloromethane	2.21	50	128639	20.905	ug/l	98
4) Vinyl Chloride	2.35	62	146616	20.636	ug/l	96
5) Bromomethane	2.76	94	95922	18.256	ug/l	100
6) Chloroethane	2.92	64	95041	20.013	ug/l	93
7) Trichlorofluoromethane	3.27	101	250732	21.228	ug/l	94
8) Diethyl Ether	3.70	74	48933	19.937	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.08	101	104237	20.583	ug/l	99
10) Methyl Iodide	4.29	142	102453	19.157	ug/l	99
11) Tert butyl alcohol	5.24	59	25228	81.319	ug/l #	100
12) 1,1-Dichloroethene	4.06	96	99205	20.441	ug/l	96
13) Acrolein	3.92	56	36798	86.961	ug/l	100
14) Allyl chloride	4.70	41	160246	21.157	ug/l	99
15) Acrylonitrile	5.43	53	98806	92.059	ug/l	99
16) Acetone	4.16	43	91458	92.863	ug/l	91
17) Carbon Disulfide	4.40	76	322910	21.008	ug/l	98
18) Methyl Acetate	4.73	43	55850	19.441	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	210756	18.931	ug/l	99
20) Methylene Chloride	4.97	84	107314	18.657	ug/l	95
21) trans-1,2-Dichloroethene	5.47	96	113411	20.659	ug/l	95
22) Diisopropyl ether	6.37	45	305083	20.404	ug/l	98
23) Vinyl Acetate	6.31	43	835165	94.745	ug/l	98
24) 1,1-Dichloroethane	6.26	63	184970	20.570	ug/l	97
25) 2-Butanone	7.22	43	122604	88.026	ug/l	94
26) 2,2-Dichloropropane	7.20	77	167594	21.431	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	117667	19.660	ug/l	96
28) Bromochloromethane	7.54	49	46562	15.152	ug/l	97
29) Tetrahydrofuran	7.57	42	82524	93.127	ug/l	96
30) Chloroform	7.71	83	188913	20.286	ug/l	100
31) Cyclohexane	7.98	56	183376	20.667	ug/l	96
32) 1,1,1-Trichloroethane	7.90	97	178969	20.729	ug/l	99
36) 1,1-Dichloropropene	8.11	75	157402	21.530	ug/l	98
37) Ethyl Acetate	7.30	43	56805	18.312	ug/l	99
38) Carbon Tetrachloride	8.09	117	165856	21.495	ug/l	98

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 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)
39) Methylcyclohexane	9.36	83	192253	21.200	ug/l	96
40) Benzene	8.35	78	423425	20.853	ug/l	99
41) Methacrylonitrile	7.53	41	40295	22.650	ug/l	96
42) 1,2-Dichloroethane	8.43	62	119591	20.196	ug/l	99
43) Isopropyl Acetate	8.46	43	116118	19.038	ug/l	99
44) Trichloroethene	9.11	130	125098	20.453	ug/l	97
45) 1,2-Dichloropropane	9.39	63	100791	20.755	ug/l	99
46) Dibromomethane	9.48	93	52598	19.191	ug/l	98
47) Bromodichloromethane	9.66	83	142478	20.231	ug/l	97
48) Methyl methacrylate	9.46	41	57252	20.513	ug/l	91
49) 1,4-Dioxane	9.47	88	12281	362.861	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	273390	90.589	ug/l	100
52) Toluene	10.40	92	274343	20.732	ug/l	99
53) t-1,3-Dichloropropene	10.62	75	134111	19.982	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	161175	20.214	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	74184	19.767	ug/l	95
56) Ethyl methacrylate	10.67	69	92210	19.264	ug/l	99
57) 1,3-Dichloropropane	10.95	76	124022	19.413	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	187241	98.127	ug/l	98
59) 2-Hexanone	10.98	43	192181	91.772	ug/l	99
60) Dibromochloromethane	11.14	129	98056	19.270	ug/l	99
61) 1,2-Dibromoethane	11.25	107	72116	19.246	ug/l	95
64) Tetrachloroethene	10.88	164	107179	21.304	ug/l	97
65) Chlorobenzene	11.67	112	289468	21.037	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.75	131	104470	20.510	ug/l	99
67) Ethyl Benzene	11.75	91	509589	20.815	ug/l	99
68) m/p-Xylenes	11.86	106	389321	41.707	ug/l	99
69) o-Xylene	12.18	106	180382	20.923	ug/l	98
70) Styrene	12.20	104	305843	20.415	ug/l	99
71) Bromoform	12.37	173	57146	18.752	ug/l #	100
73) Isopropylbenzene	12.48	105	492053	21.552	ug/l	99
74) N-amyl acetate	12.29	43	101089	19.509	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	72875	19.302	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	96720	37.050	ug/l #	100
77) Bromobenzene	12.77	156	120700	21.409	ug/l	97
78) n-propylbenzene	12.83	91	570745	21.667	ug/l	100
79) 2-Chlorotoluene	12.91	91	308541	21.287	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	402304	21.563	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	24773	20.693	ug/l	94
82) 4-Chlorotoluene	13.01	91	323600	21.086	ug/l	99
83) tert-Butylbenzene	13.23	119	346318	21.351	ug/l	97
84) 1,2,4-Trimethylbenzene	13.27	105	393853	20.994	ug/l	99
85) sec-Butylbenzene	13.41	105	478485	21.494	ug/l	100
86) p-Isopropyltoluene	13.53	119	449537	21.389	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	219551	20.518	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	214191	20.274	ug/l	97
89) n-Butylbenzene	13.86	91	409858	21.474	ug/l	99
90) Hexachloroethane	14.13	117	84249	21.432	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	187412	20.493	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	12114	18.734	ug/l	95

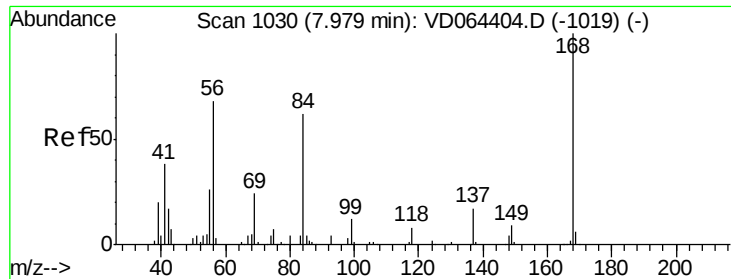
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Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	139999	19.990	ug/l	97
94) Hexachlorobutadiene	15.28	225	91352	21.129	ug/l	100
95) Naphthalene	15.42	128	224570	19.213	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	121361	20.300	ug/l	100

(#) = 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: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

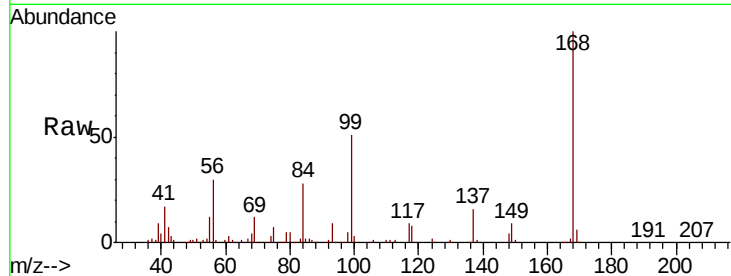
ClientSampleId :

Tot Ion:168 Resp: 538442

Ion Ratio Lower Upper

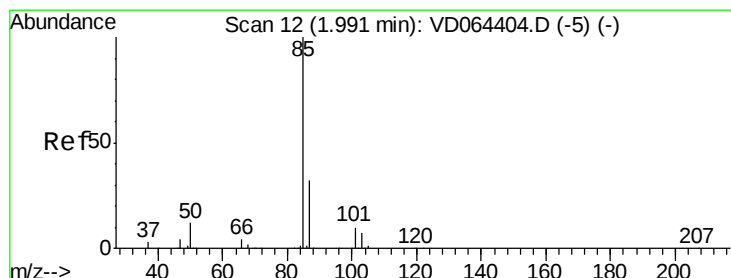
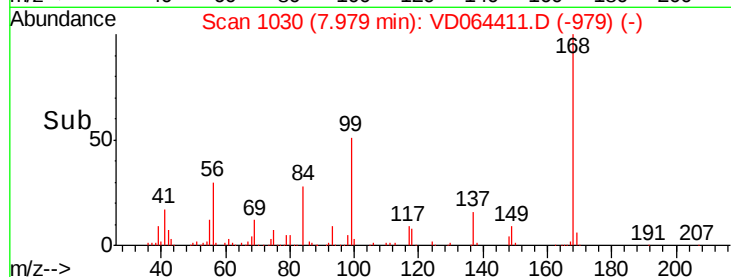
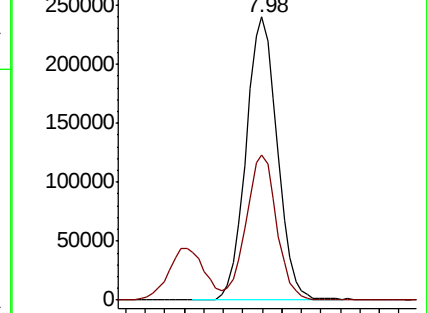
168 100

99 51.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 21.558 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064411.D

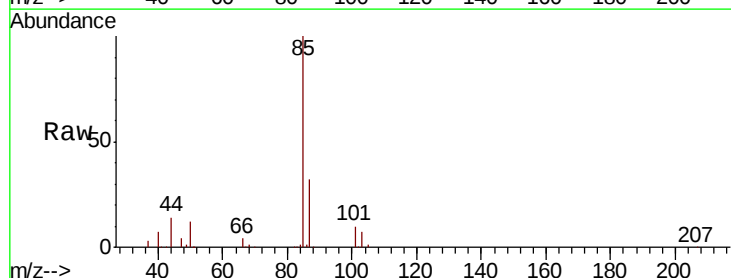
Acq: 04 Dec 2019 12:30

Tgt Ion: 85 Resp: 105178

Ion Ratio Lower Upper

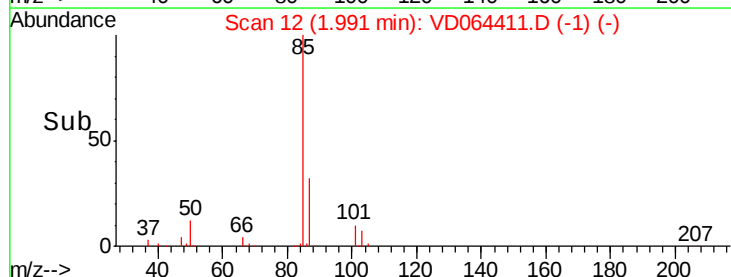
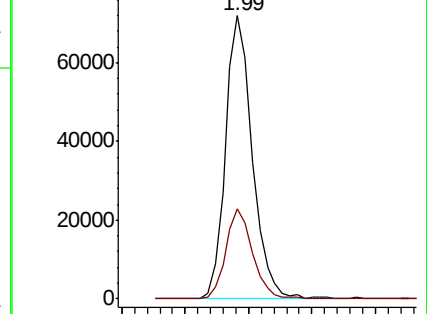
85 100

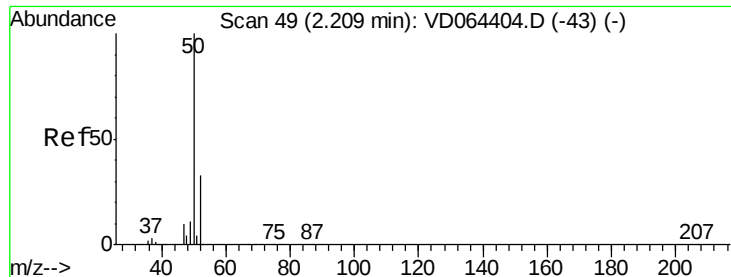
87 31.8 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.905 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

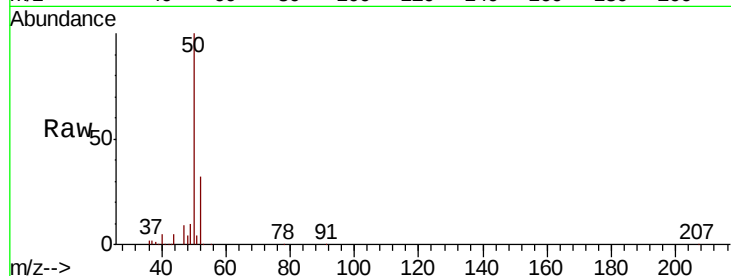
ClientSampleId :

Tot Ion: 50 Resp: 128639

Ion Ratio Lower Upper

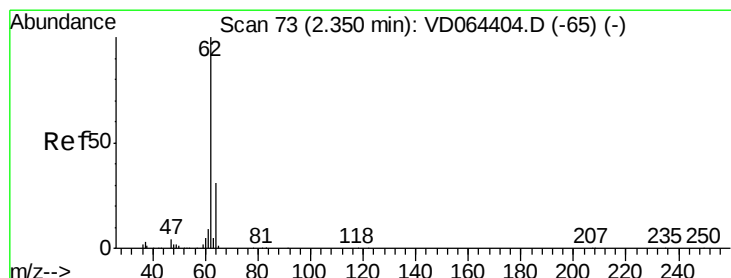
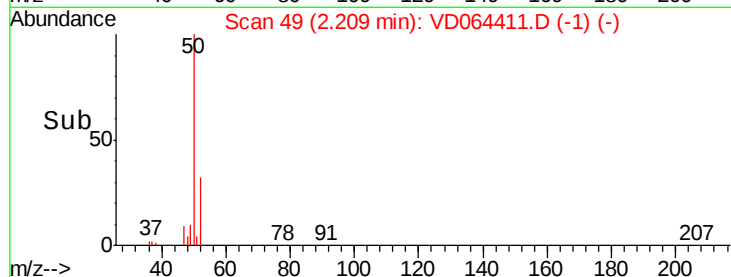
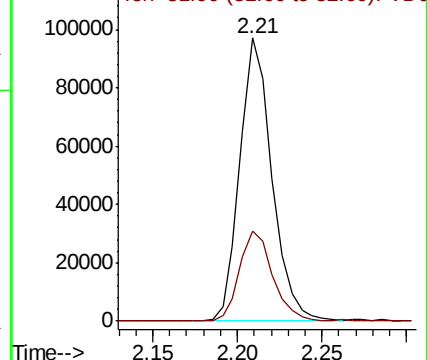
50 100

52 32.0 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.636 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064411.D

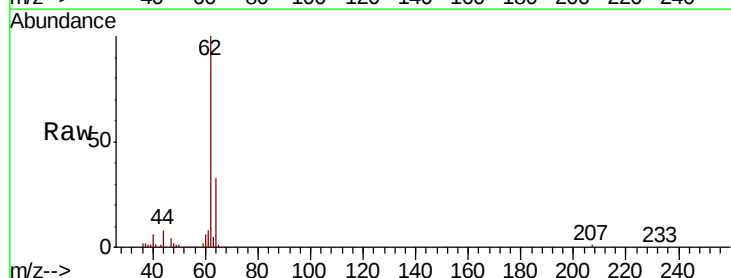
Acq: 04 Dec 2019 12:30

Tgt Ion: 62 Resp: 146616

Ion Ratio Lower Upper

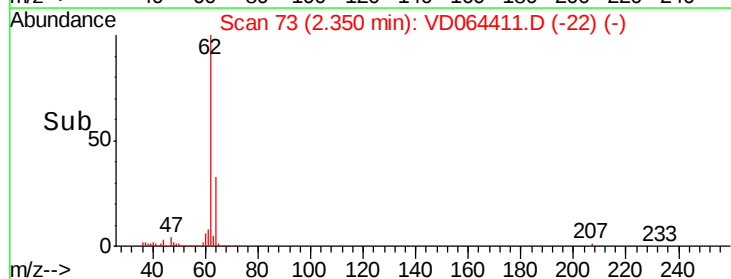
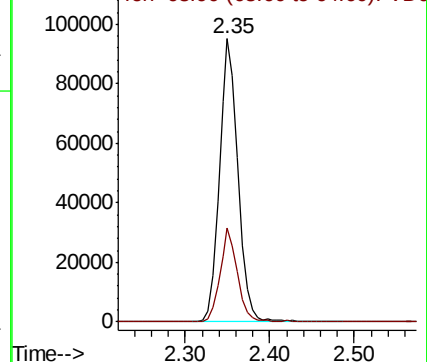
62 100

64 33.2 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 18.256 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

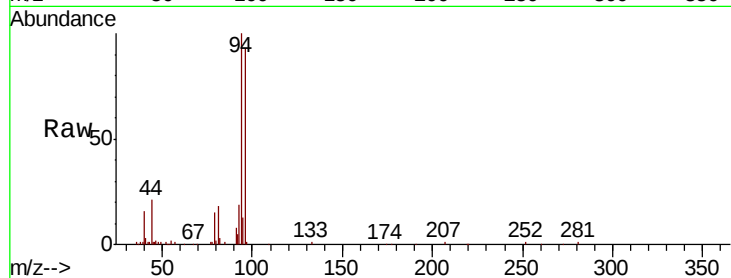
ClientSampleId :

Tot Ion: 94 Resp: 95922

Ion Ratio Lower Upper

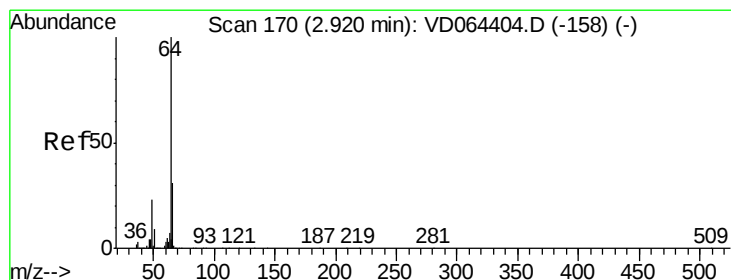
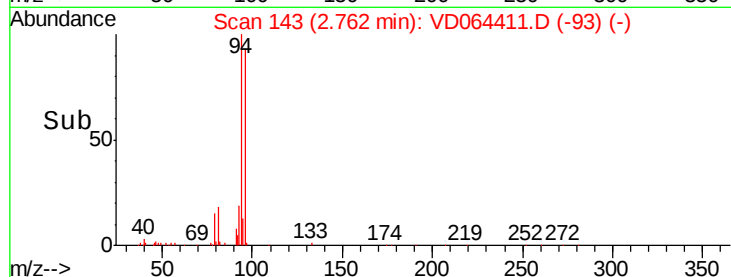
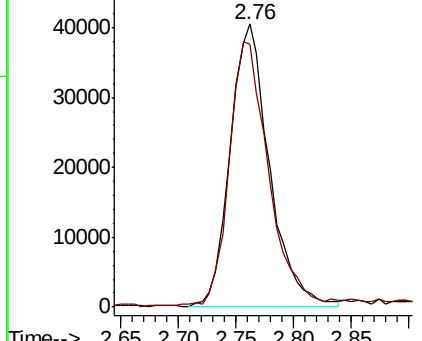
94 100

96 91.8 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: 20.013 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064411.D

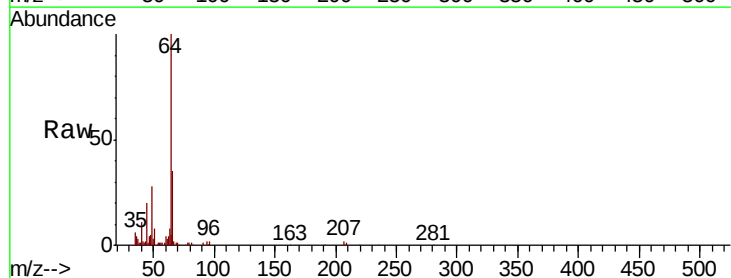
Acq: 04 Dec 2019 12:30

Tgt Ion: 64 Resp: 95041

Ion Ratio Lower Upper

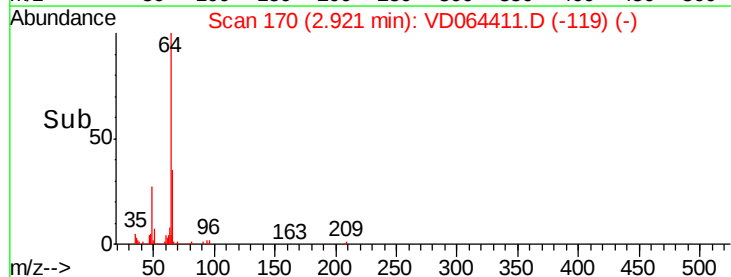
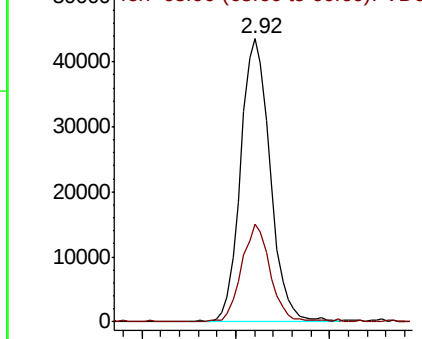
64 100

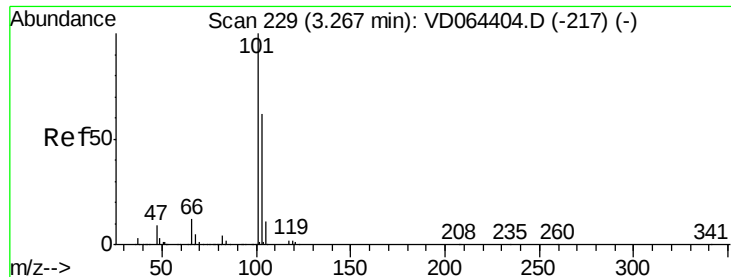
66 34.7 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 21.228 ug/l

RT: 3.27 min Scan# 229

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

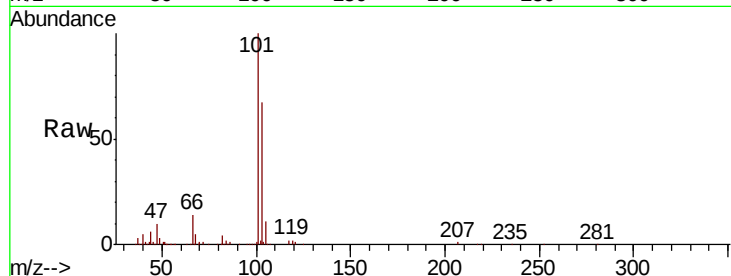
ClientSampleId :

Tot Ion:101 Resp: 250732

Ion Ratio Lower Upper

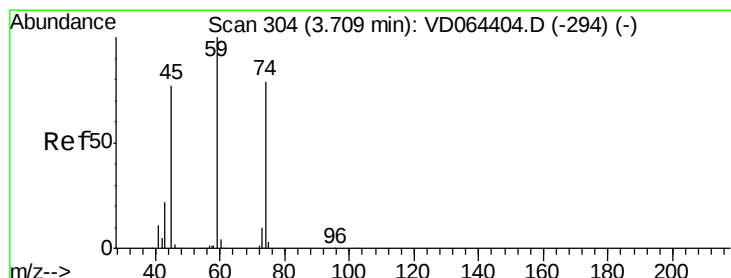
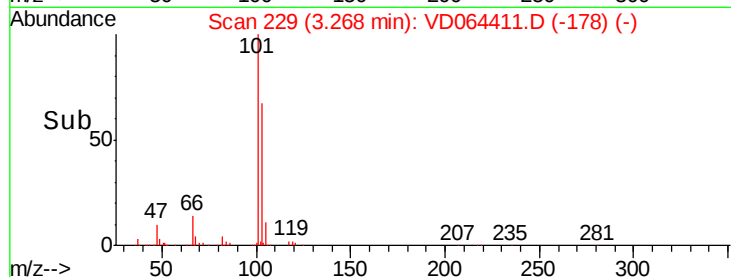
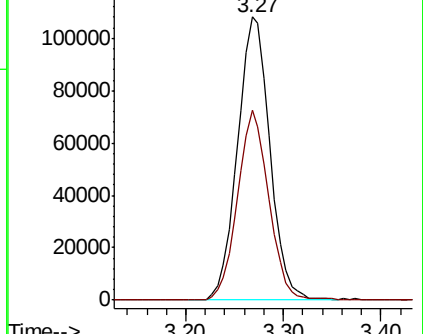
101 100

103 67.0 49.8 74.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 19.937 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD064411.D

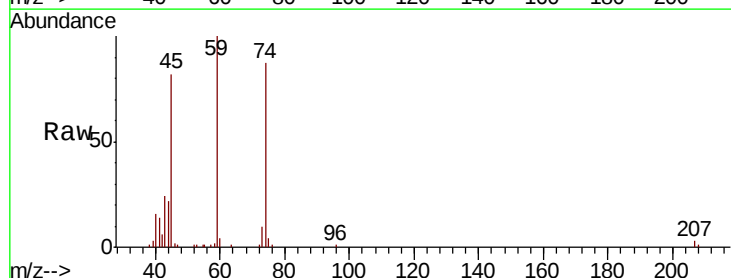
Acq: 04 Dec 2019 12:30

Tgt Ion: 74 Resp: 48933

Ion Ratio Lower Upper

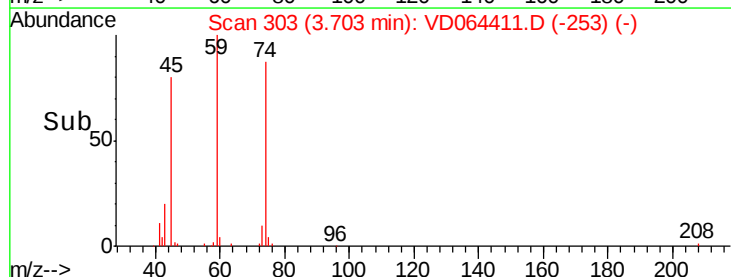
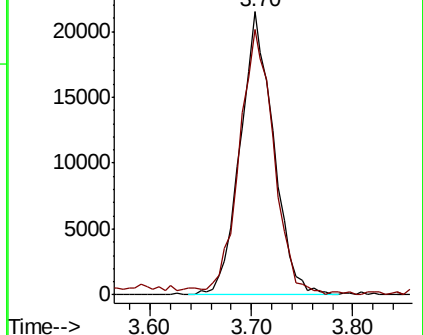
74 100

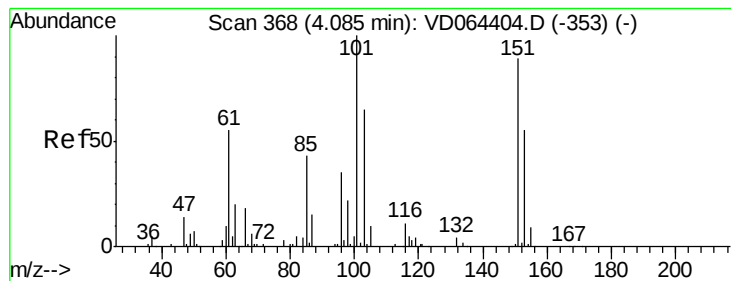
45 97.3 48.6 145.9



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.583 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampleId :

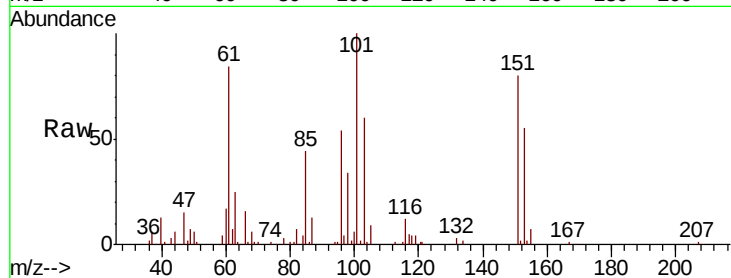
Tot Ion:101 Resp: 104237

Ion Ratio Lower Upper

101 100

85 45.4 34.8 52.2

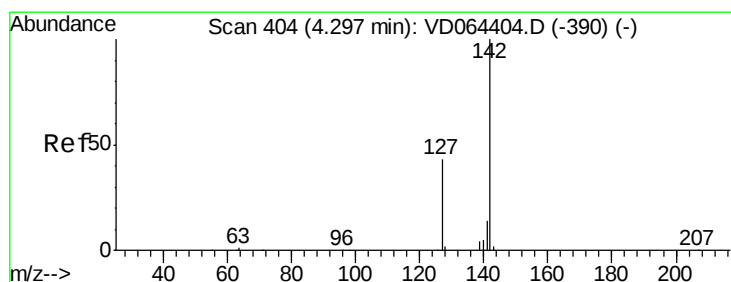
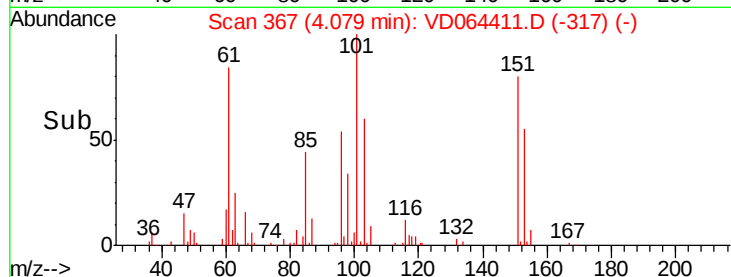
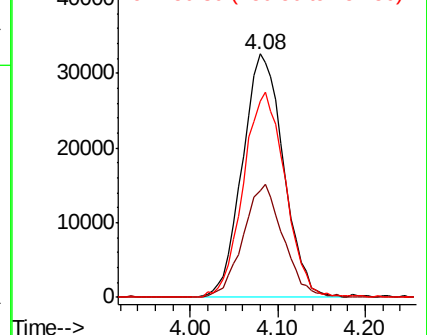
151 86.1 68.8 103.2



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: 19.157 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

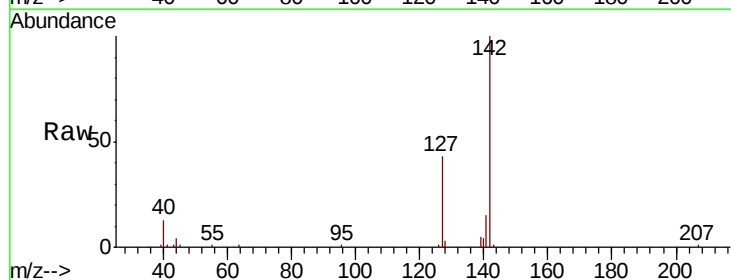
Tgt Ion:142 Resp: 102453

Ion Ratio Lower Upper

142 100

127 43.9 35.3 52.9

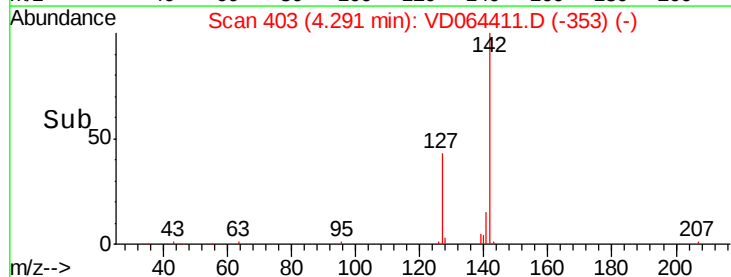
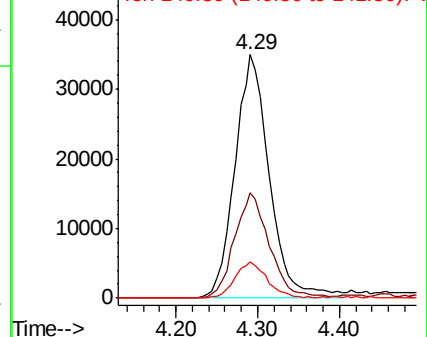
141 13.7 11.6 17.4

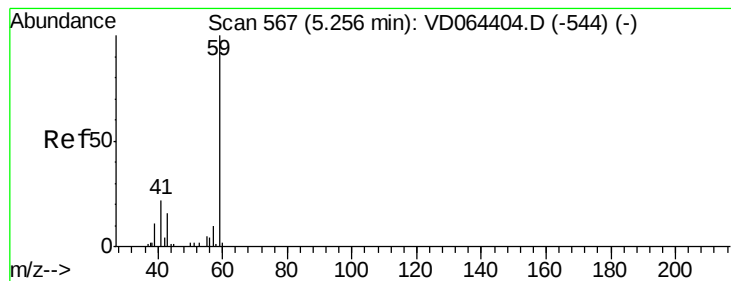


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



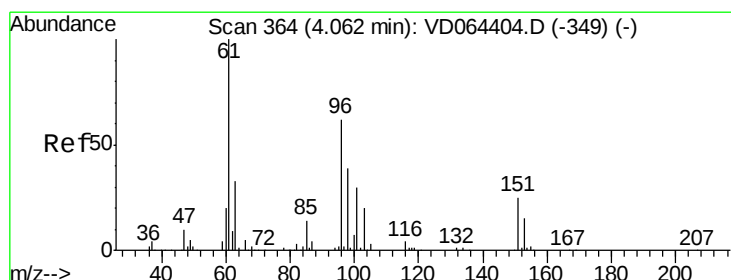
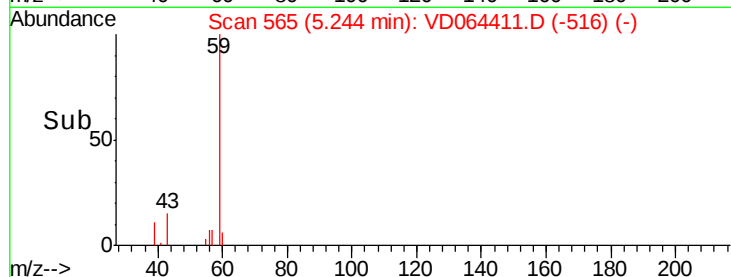
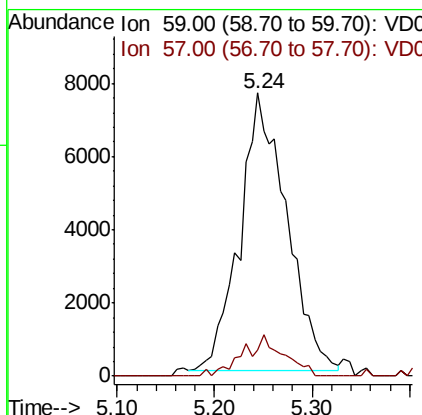
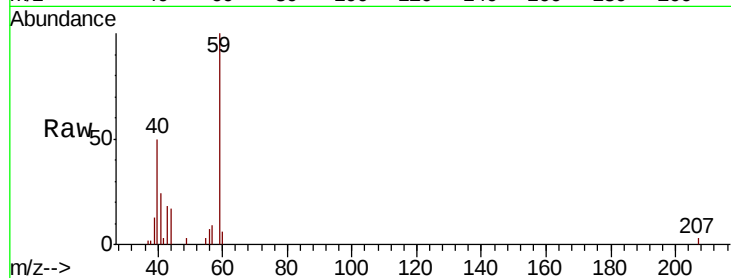


#11

Tert butyl alcohol
Concen: 81.319 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampleId :

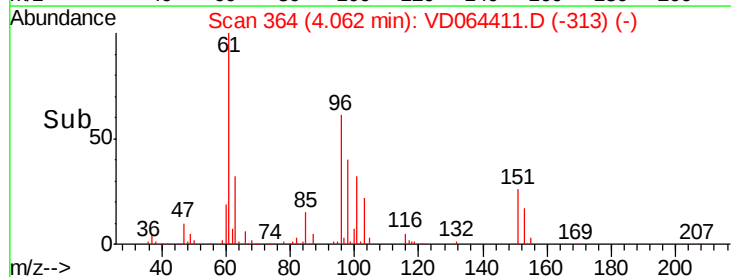
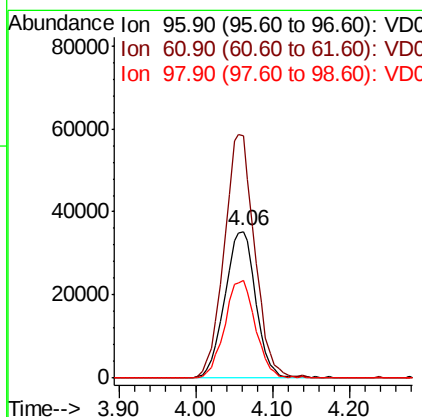
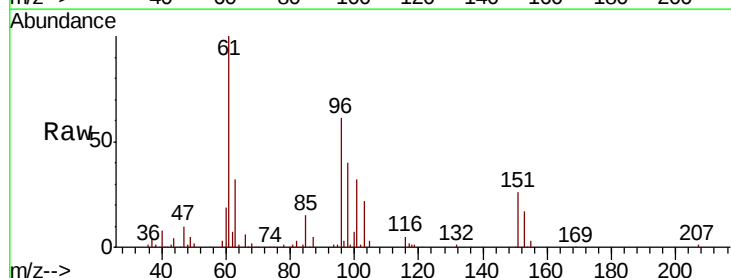
Tot Ion: 59 Resp: 25228
Ion Ratio Lower Upper
59 100
57 12.8 0.0 0.0#

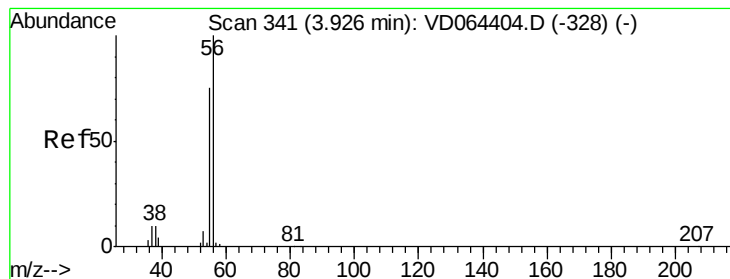


#12

1,1-Dichloroethene
Concen: 20.441 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion: 96 Resp: 99205
Ion Ratio Lower Upper
96 100
61 165.2 128.2 192.4
98 66.4 50.4 75.6





#13

Acrolein

Concen: 86.961 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

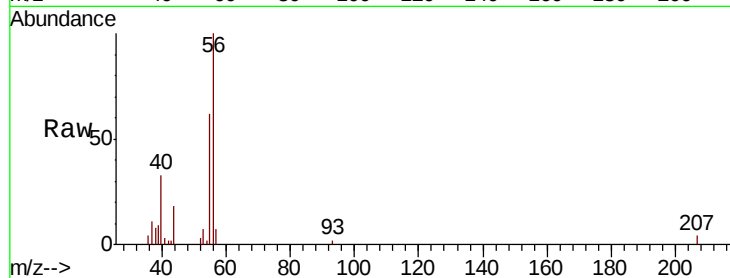
ClientSampleId :

Tot Ion: 56 Resp: 36798

Ion Ratio Lower Upper

56 100

55 70.8 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

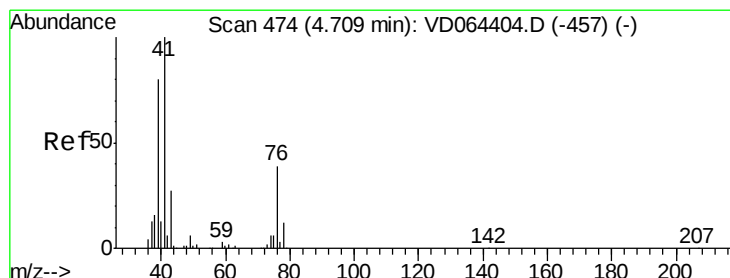
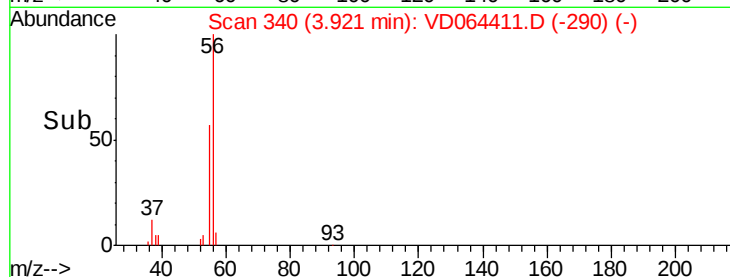
5000

0

3.92

3.80 3.90 4.00

Time-->



#14

Allyl chloride

Concen: 21.157 ug/l

RT: 4.70 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

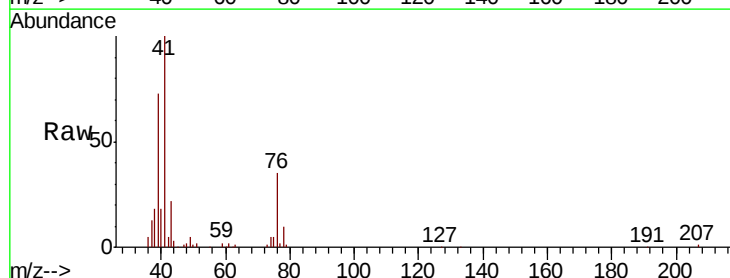
Tgt Ion: 41 Resp: 160246

Ion Ratio Lower Upper

41 100

39 77.0 62.1 93.1

76 36.6 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

60000

40000

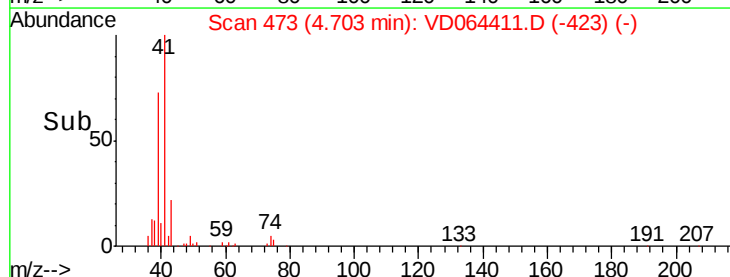
20000

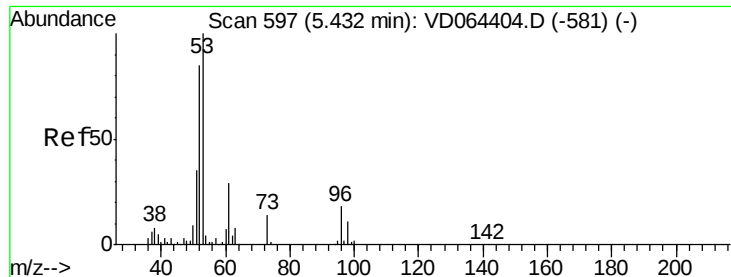
0

4.70

4.50 4.60 4.70 4.80

Time-->





#15

Acrylonitrile

Concen: 92.059 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampleId :

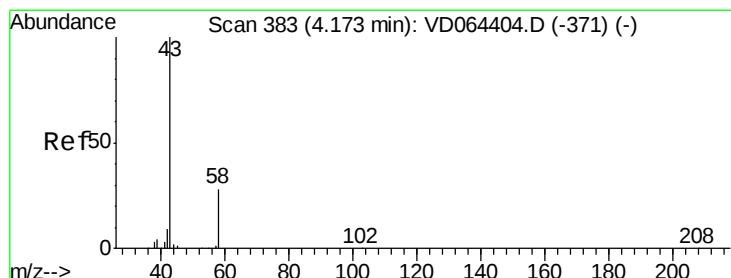
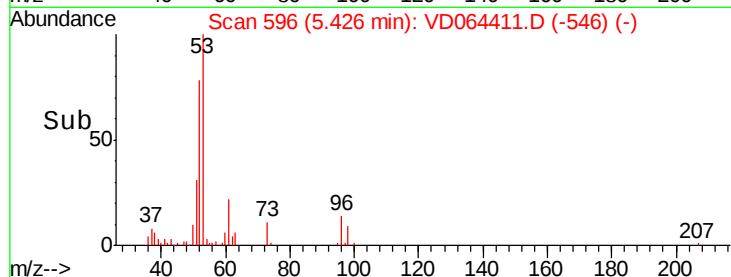
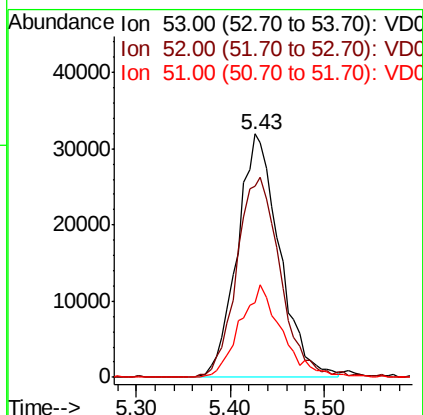
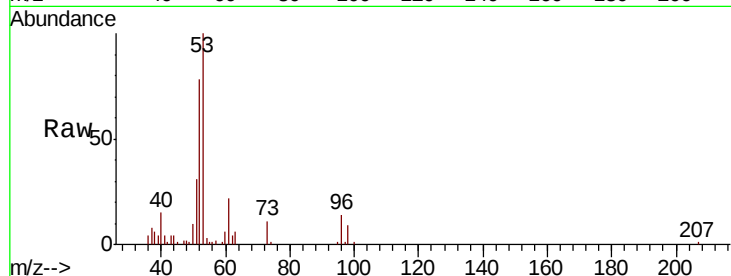
Tot Ion: 53 Resp: 98806

Ion Ratio Lower Upper

53 100

52 85.7 67.9 101.9

51 38.1 30.6 45.8



#16

Acetone

Concen: 92.863 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD064411.D

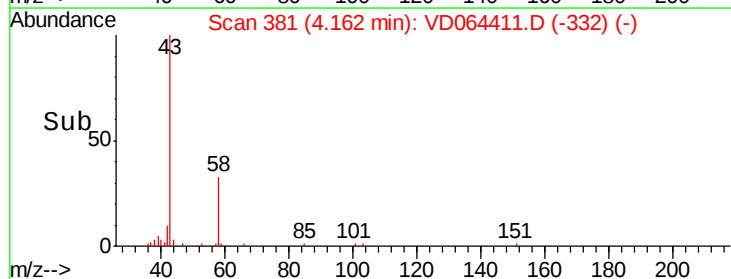
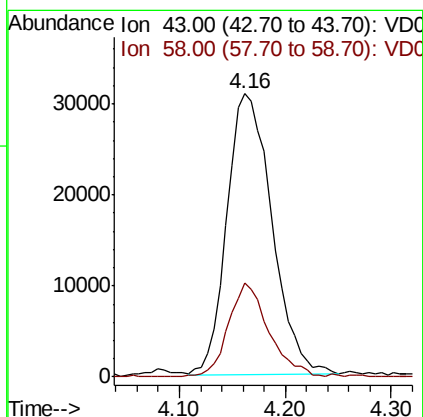
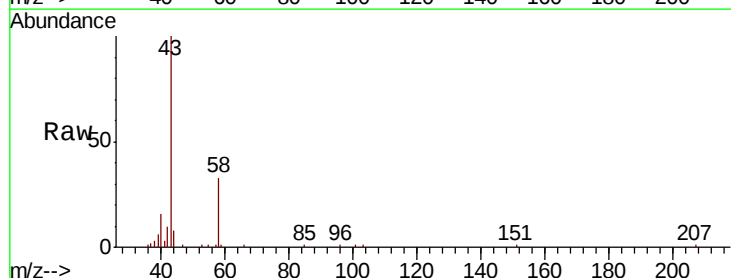
Acq: 04 Dec 2019 12:30

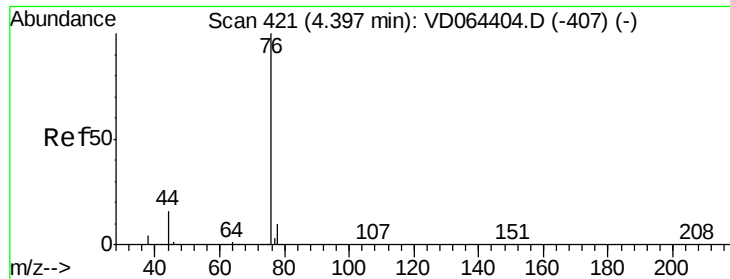
Tgt Ion: 43 Resp: 91458

Ion Ratio Lower Upper

43 100

58 33.0 22.6 33.8





#17

Carbon Disulfide

Concen: 21.008 ug/l

RT: 4.40 min Scan# 421

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

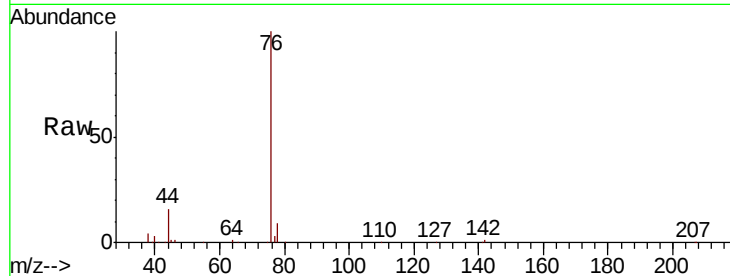
ClientSampleId :

Tot Ion: 76 Resp: 322910

Ion Ratio Lower Upper

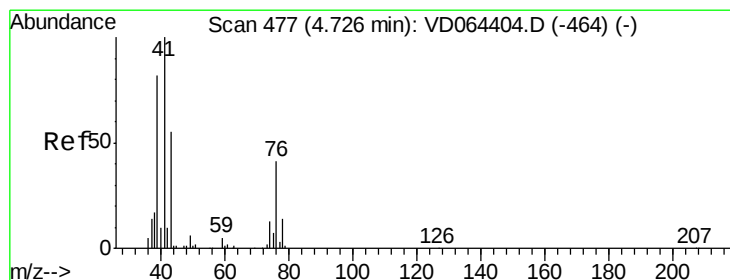
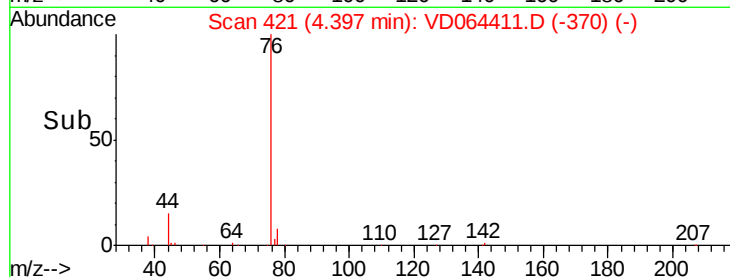
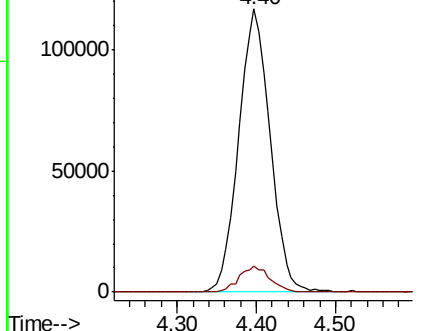
76 100

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: 19.441 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VD064411.D

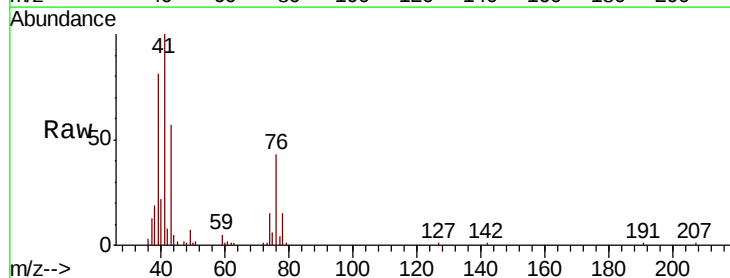
Acq: 04 Dec 2019 12:30

Tgt Ion: 43 Resp: 55850

Ion Ratio Lower Upper

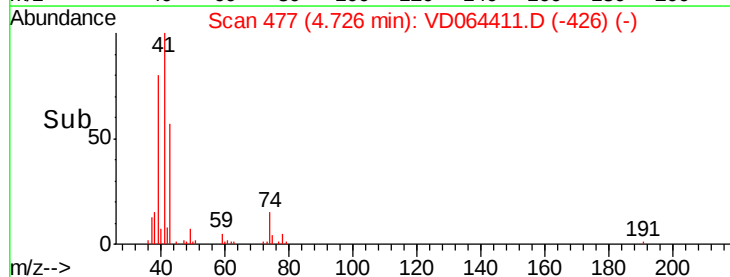
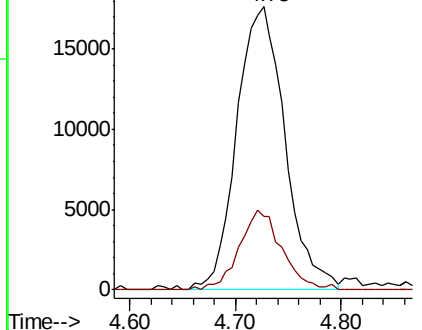
43 100

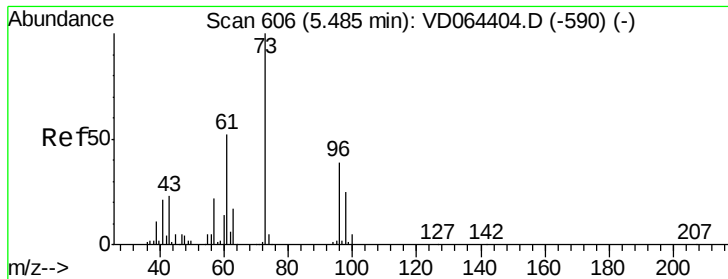
74 25.0 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



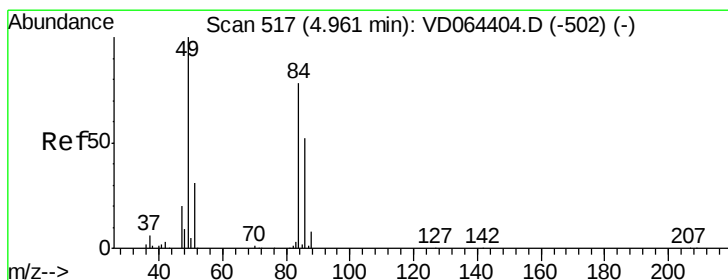
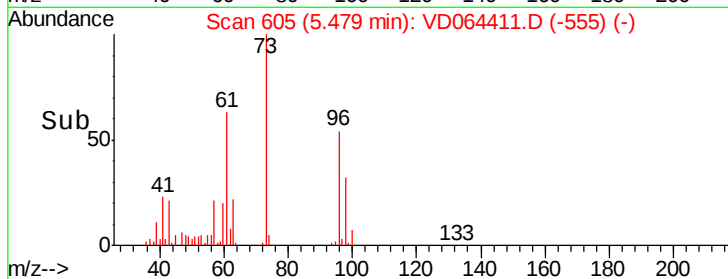
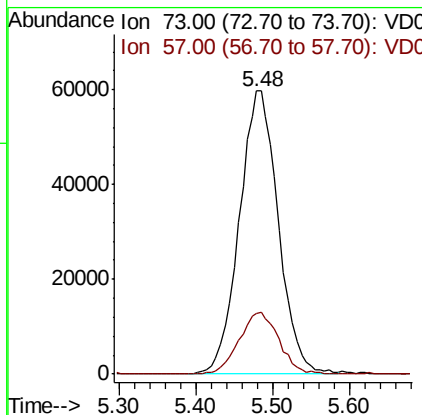
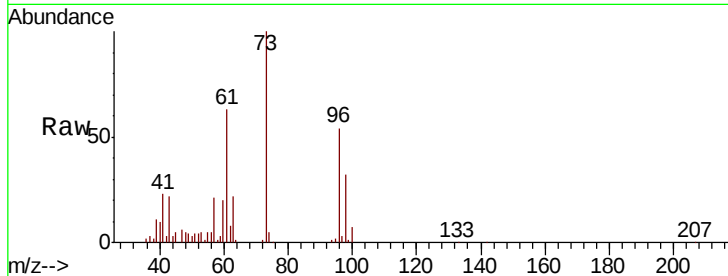


#19

Methyl tert-butyl Ether
 Concen: 18.931 ug/l
 RT: 5.48 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Instrument :
 MSVOA_D
 ClientSampled :

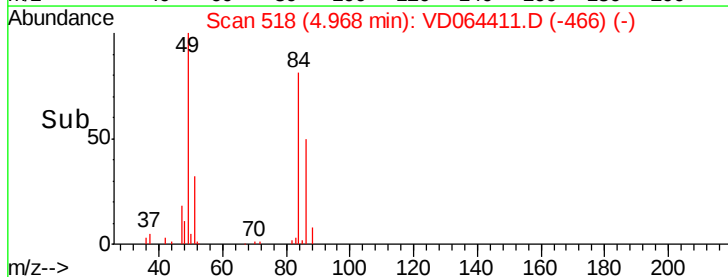
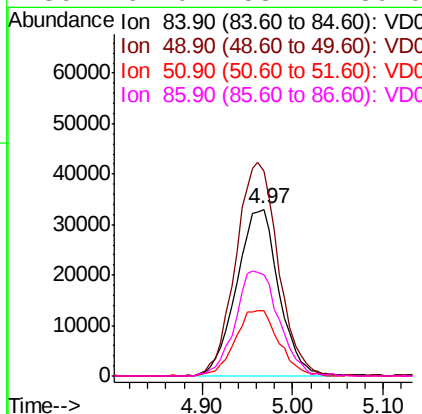
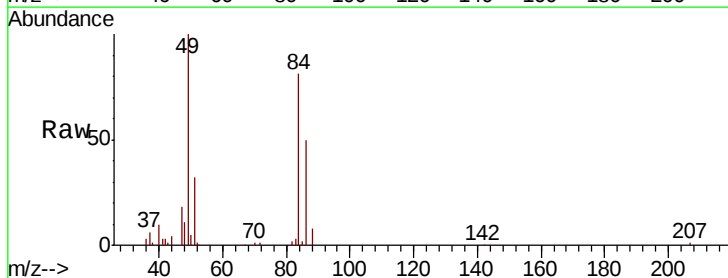
Tot Ion: 73 Resp: 210756
 Ion Ratio Lower Upper
 73 100
 57 21.3 17.6 26.4

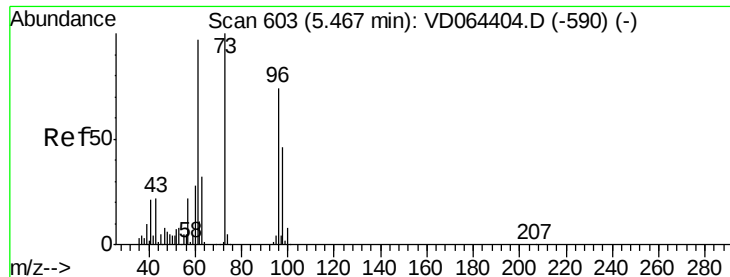


#20

Methylene Chloride
 Concen: 18.657 ug/l
 RT: 4.97 min Scan# 518
 Delta R.T. 0.01 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Tgt Ion: 84 Resp: 107314
 Ion Ratio Lower Upper
 84 100
 49 122.3 102.6 153.8
 51 39.2 32.0 48.0
 86 61.0 53.4 80.0





#21

trans-1,2-Dichloroethene

Concen: 20.659 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampleId :

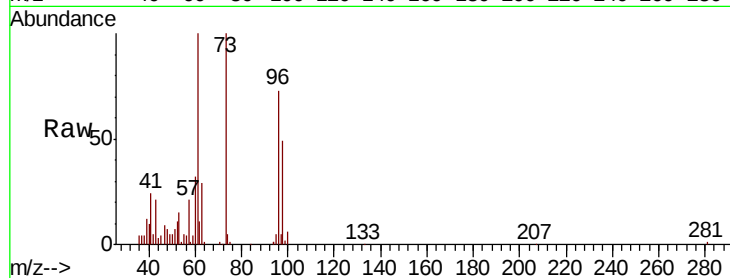
Tot Ion: 96 Resp: 113411

Ion Ratio Lower Upper

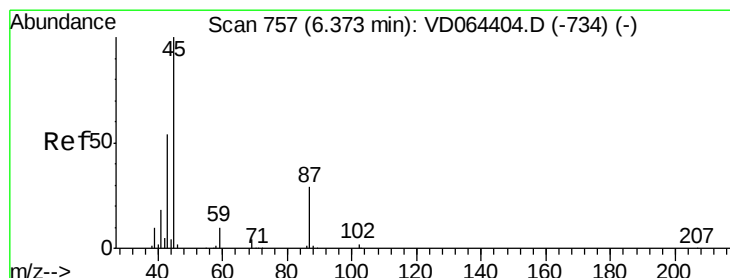
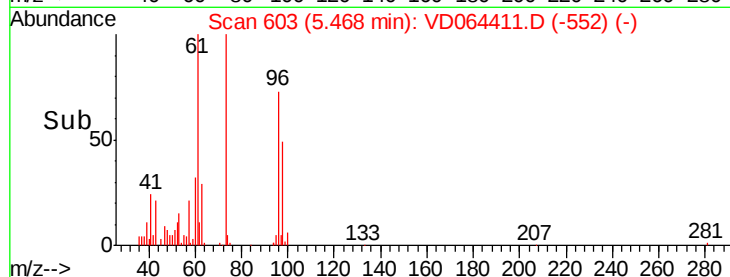
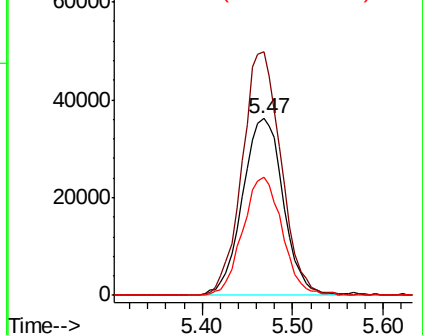
96 100

61 137.8 105.8 158.6

98 67.0 50.1 75.1



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



#22

Diisopropyl ether

Concen: 20.404 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Tgt Ion: 45 Resp: 305083

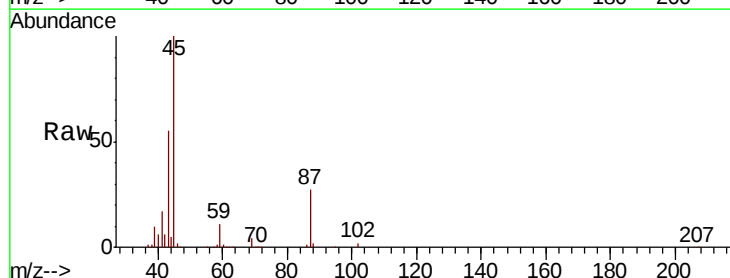
Ion Ratio Lower Upper

45 100

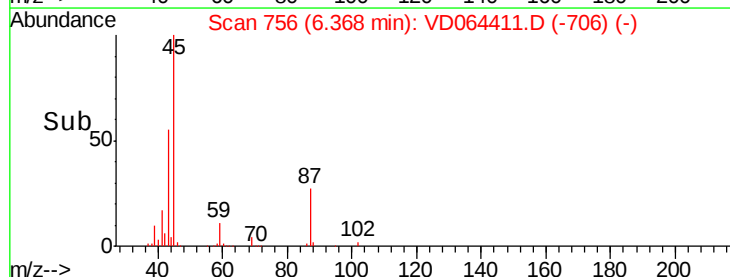
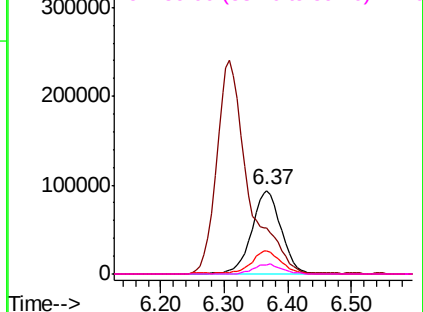
43 54.2 43.1 64.7

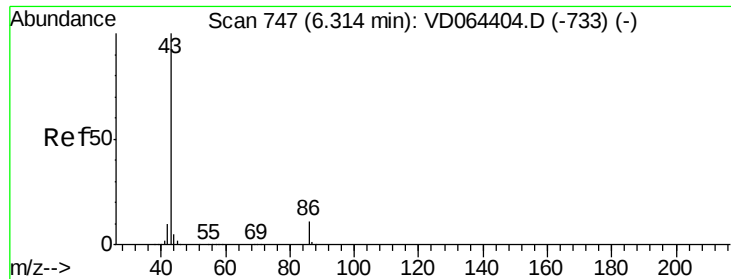
87 26.8 23.5 35.3

59 10.6 8.2 12.2



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





#23

Vinyl Acetate

Concen: 94.745 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

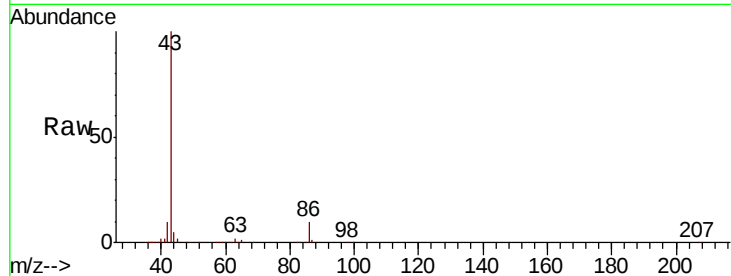
ClientSampled :

Tot Ion: 43 Resp: 835165

Ion Ratio Lower Upper

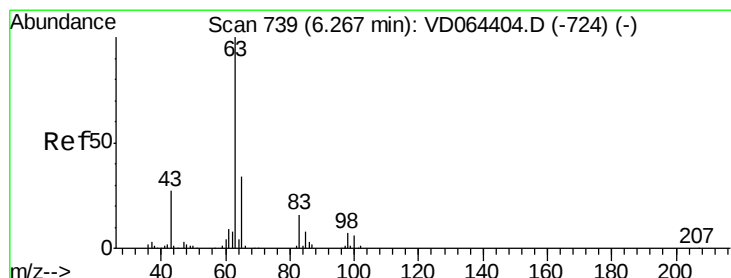
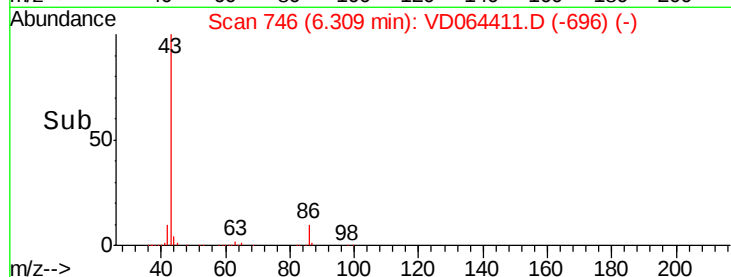
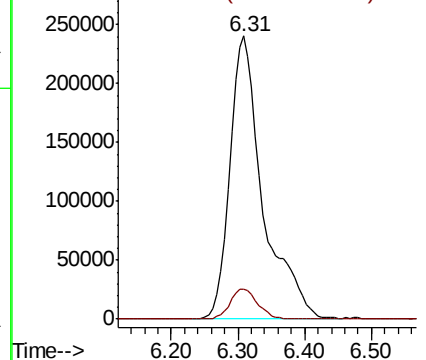
43 100

86 10.4 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.570 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

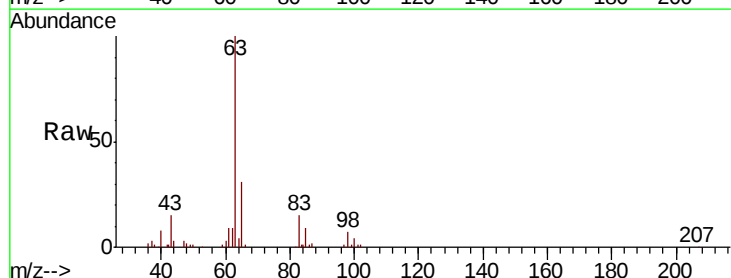
Tgt Ion: 63 Resp: 184970

Ion Ratio Lower Upper

63 100

98 6.7 3.6 10.9

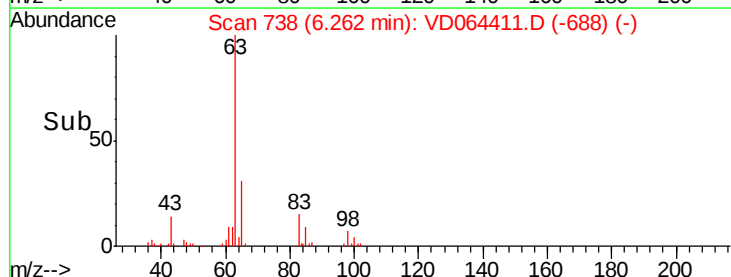
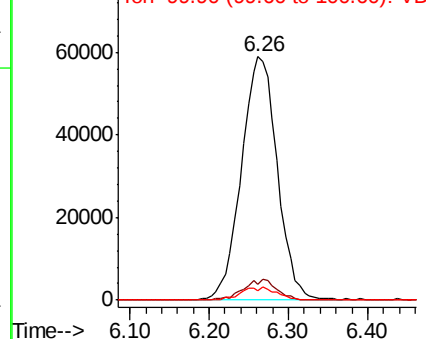
100 4.0 2.9 8.6

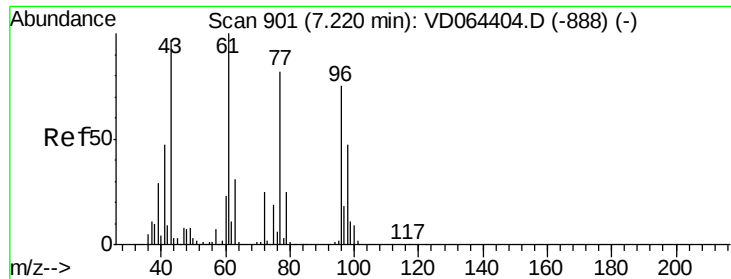


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 88.026 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

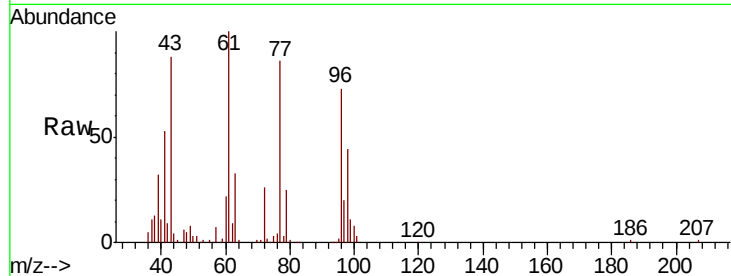
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 122604

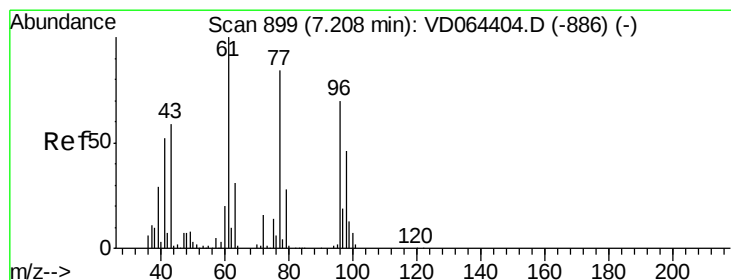
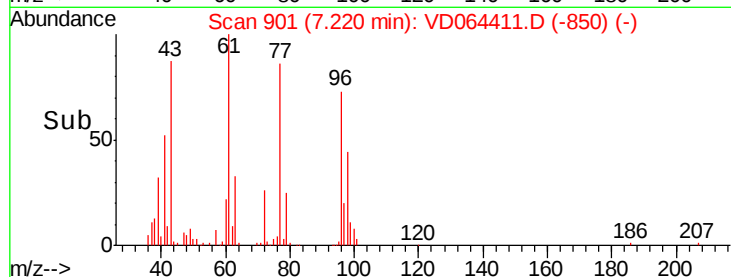
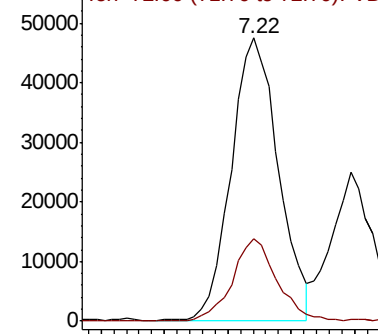
Ion Ratio Lower Upper

43 100

72 29.2 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: 21.431 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD064411.D

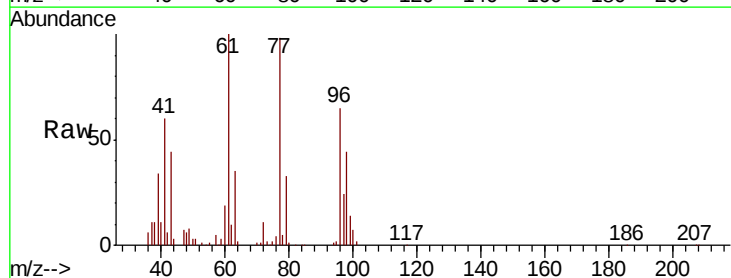
Acq: 04 Dec 2019 12:30

Tgt Ion: 77 Resp: 167594

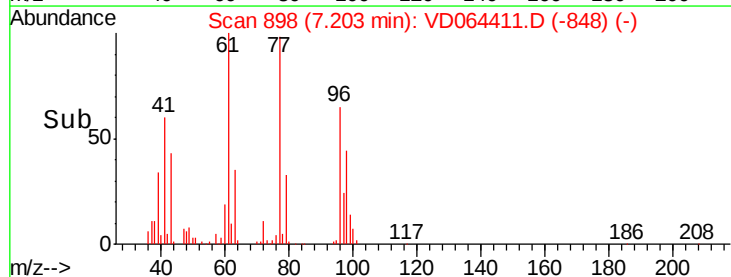
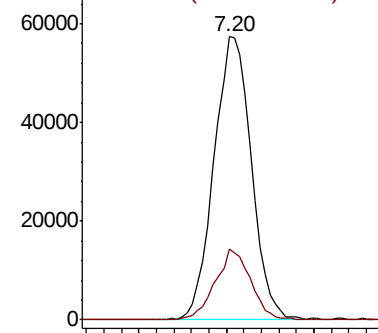
Ion Ratio Lower Upper

77 100

97 23.5 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: 19.660 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampled :

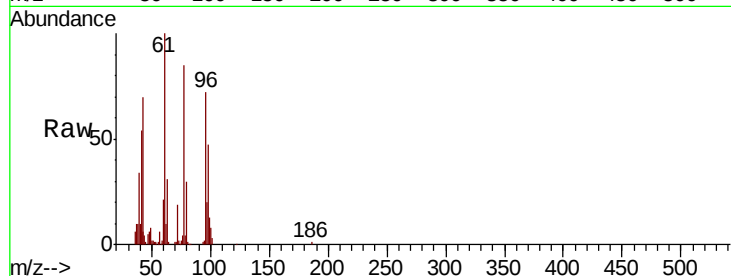
Tot Ion: 96 Resp: 117667

Ion Ratio Lower Upper

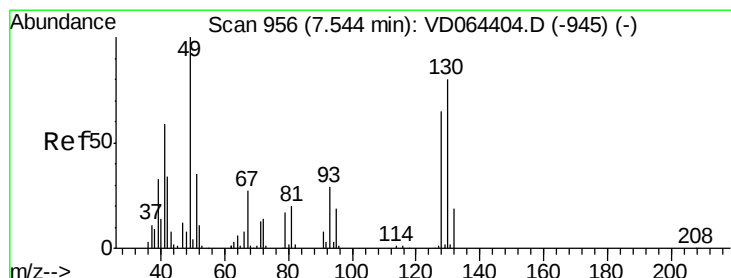
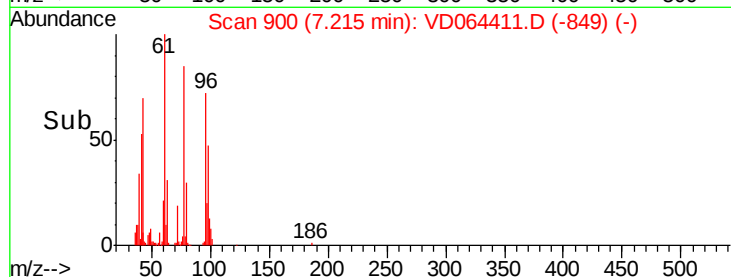
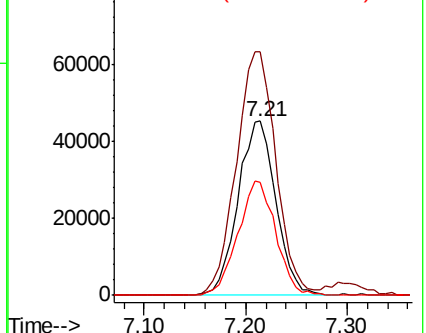
96 100

61 145.5 0.0 279.6

98 65.6 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: 15.152 ug/l

RT: 7.54 min Scan# 956

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

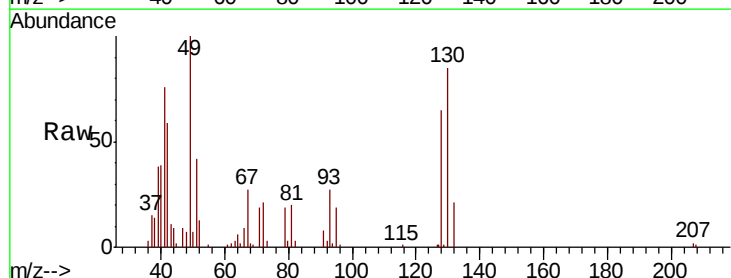
Tgt Ion: 49 Resp: 46562

Ion Ratio Lower Upper

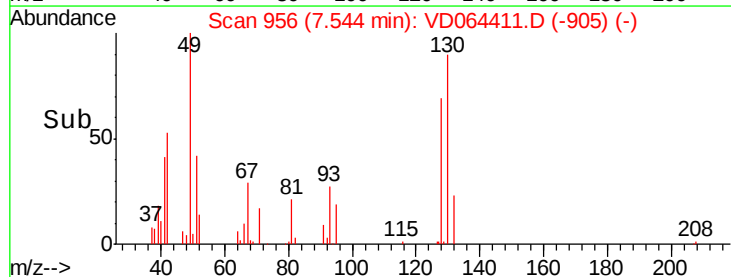
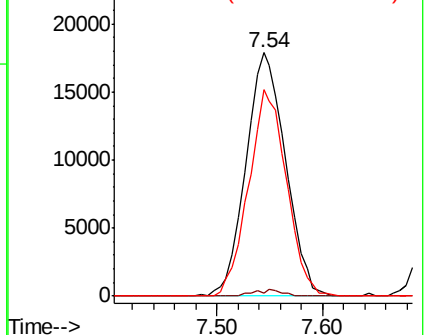
49 100

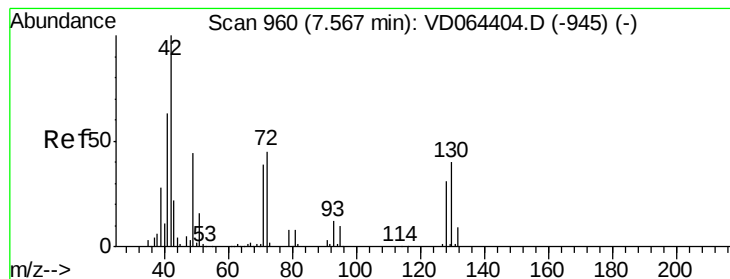
129 1.9 0.0 4.4

130 81.5 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: 93.127 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampleId :

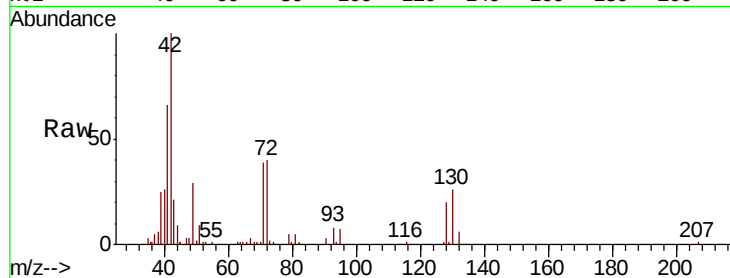
Tot Ion: 42 Resp: 82524

Ion Ratio Lower Upper

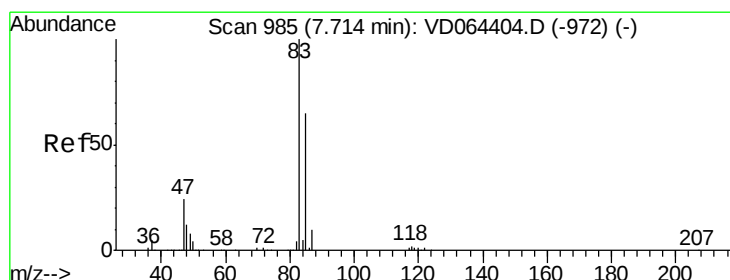
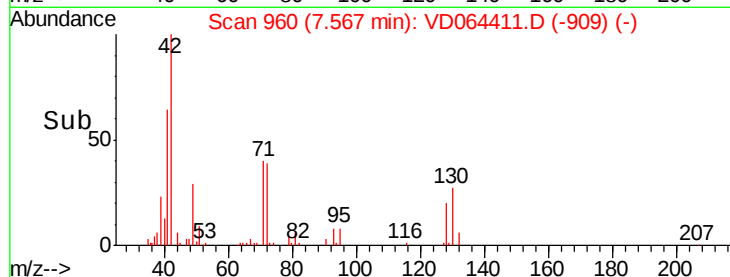
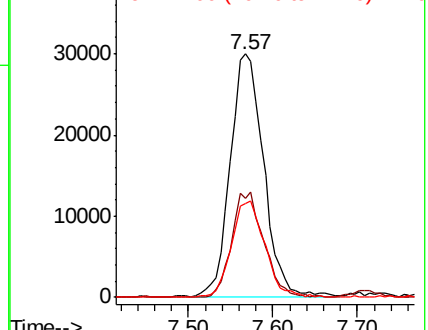
42 100

72 41.1 35.8 53.8

71 39.0 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: 20.286 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064411.D

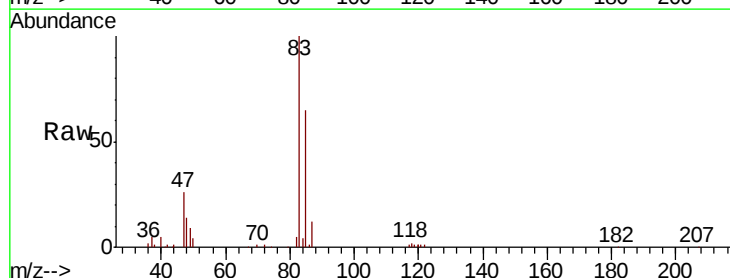
Acq: 04 Dec 2019 12:30

Tgt Ion: 83 Resp: 188913

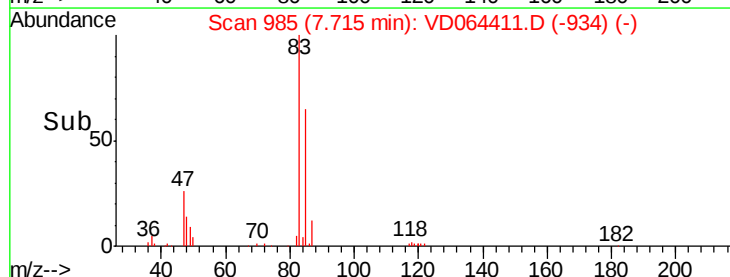
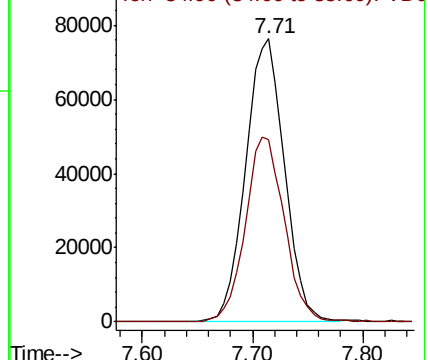
Ion Ratio Lower Upper

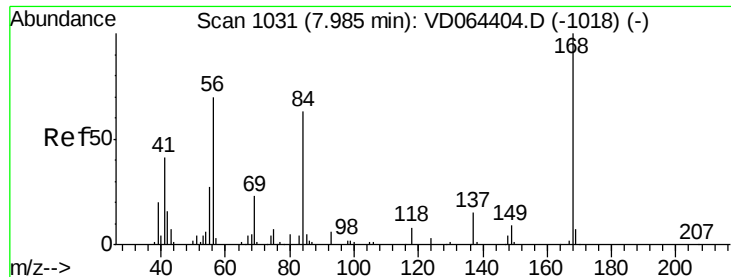
83 100

85 64.3 51.8 77.6



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

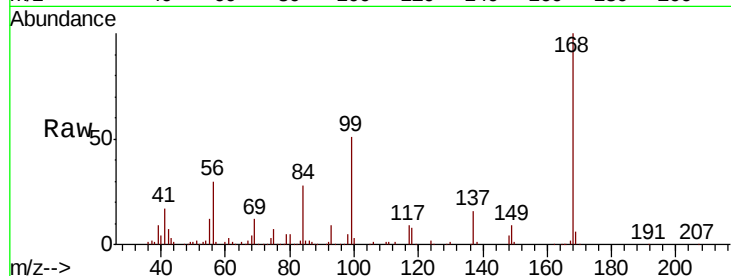




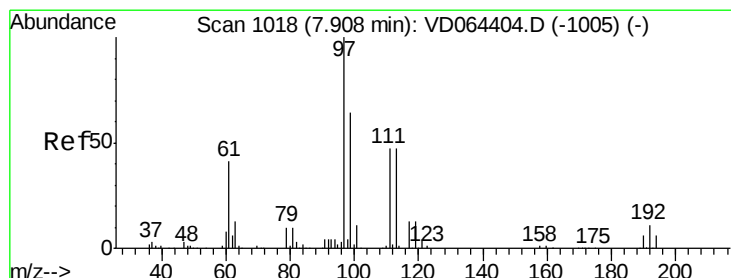
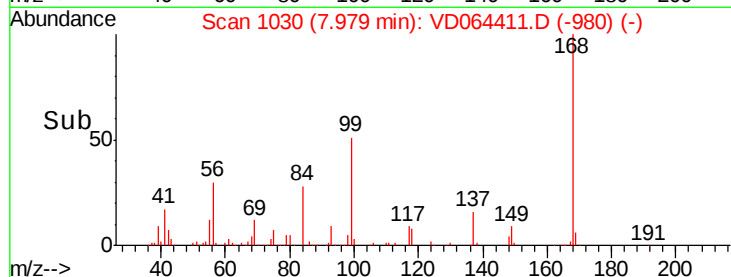
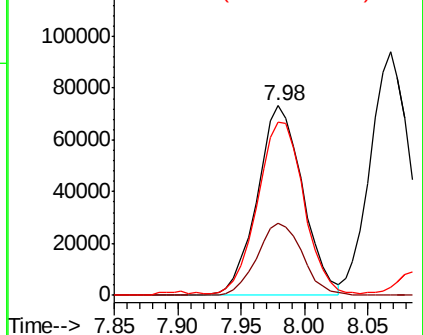
#31
Cyclohexane
Concen: 20.667 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 183376
Ion Ratio Lower Upper
56 100
69 37.7 26.2 39.4
84 90.2 70.3 105.5

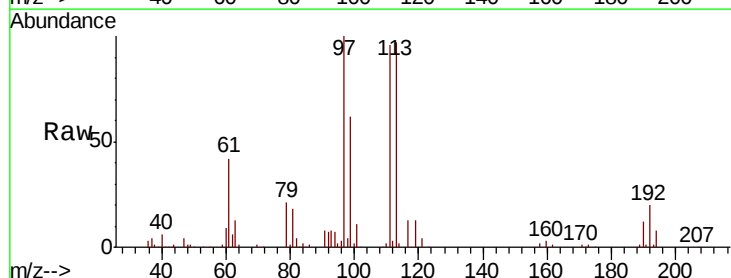


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

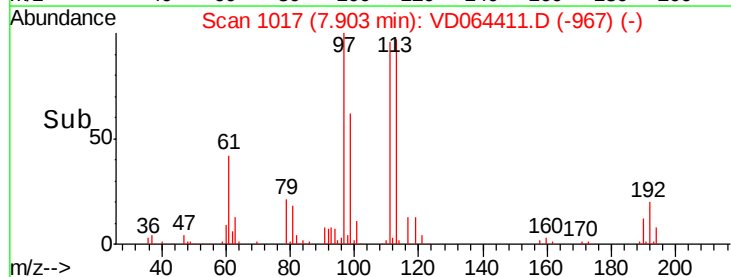
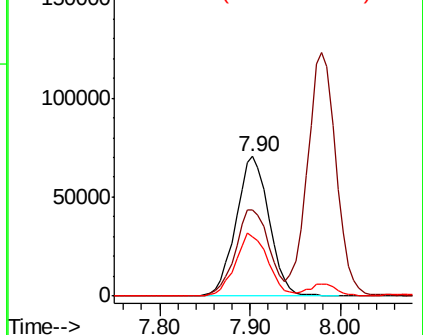


#32
1,1,1-Trichloroethane
Concen: 20.729 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion: 97 Resp: 178969
Ion Ratio Lower Upper
97 100
99 63.4 51.4 77.2
61 44.1 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

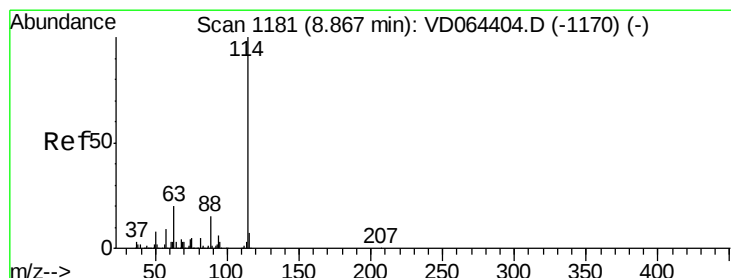
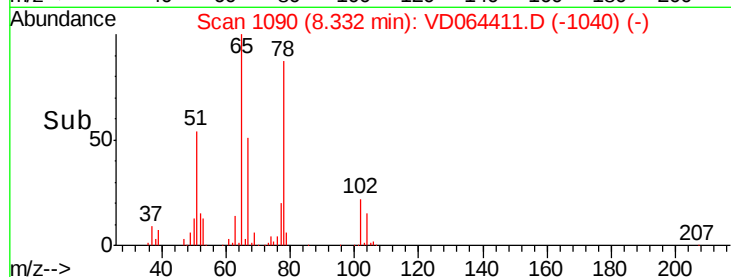
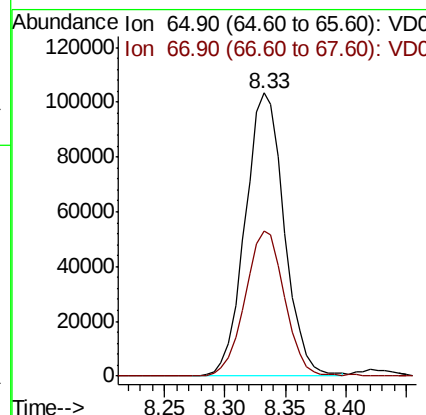
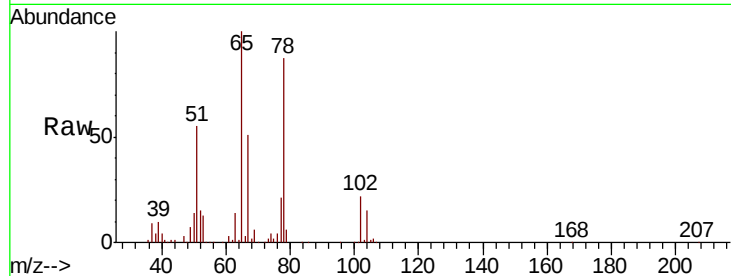




#33
 1,2-Dichloroethane-d4
 Concen: 47.657 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

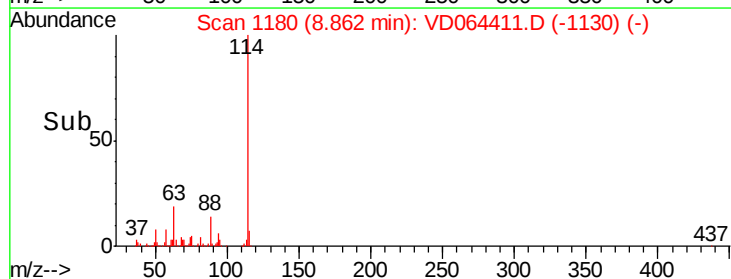
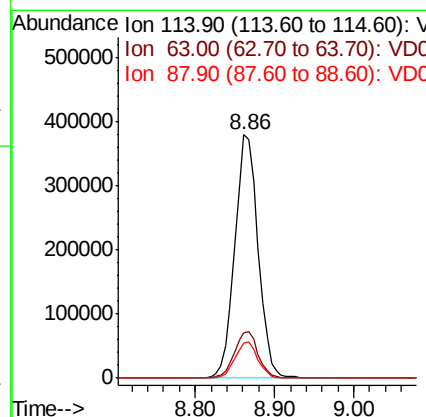
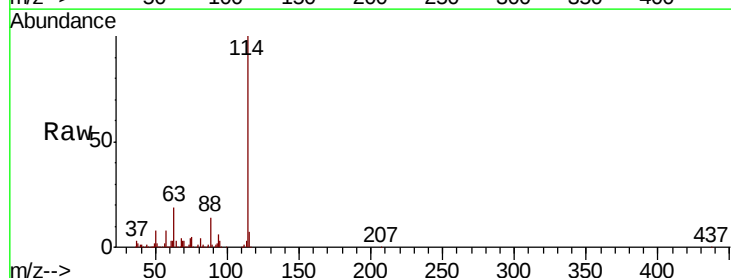
Instrument :
 MSVOA_D
 ClientSampleID :

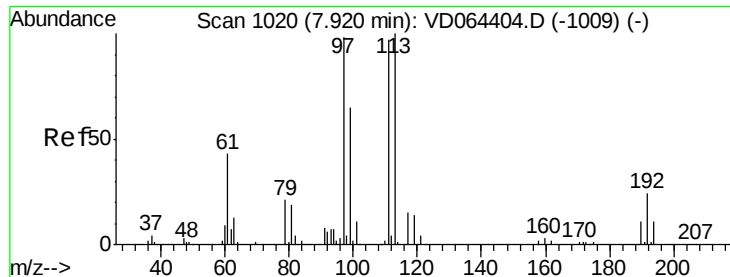
Tot Ion: 65 Resp: 232267
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Tgt Ion: 114 Resp: 772927
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 40.0
 88 14.1 0.0 29.2





#35

Dibromofluoromethane

Concen: 49.621 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampled :

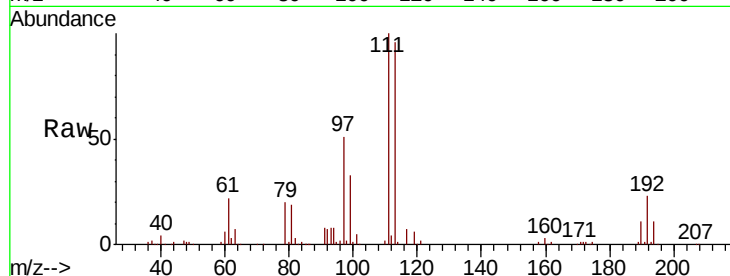
Tot Ion:113 Resp: 241647

Ion Ratio Lower Upper

113 100

111 102.0 79.4 119.2

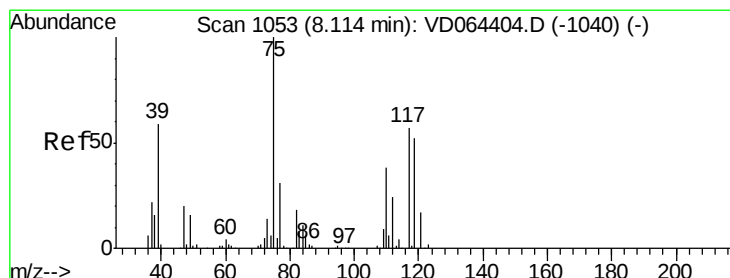
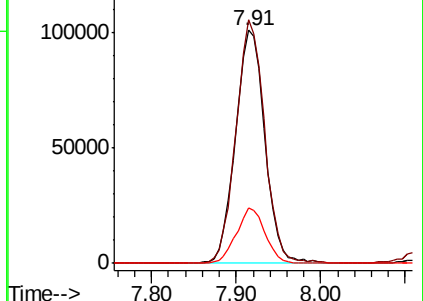
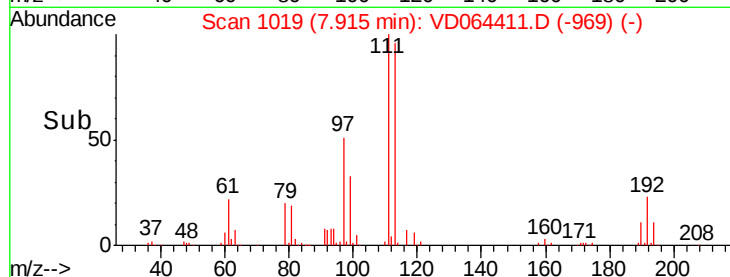
192 23.2 18.6 28.0



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: 21.530 ug/l

RT: 8.11 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

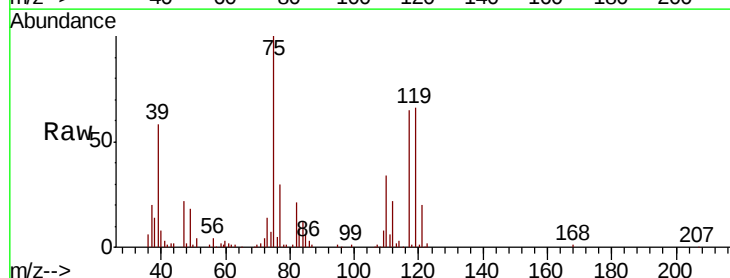
Tgt Ion: 75 Resp: 157402

Ion Ratio Lower Upper

75 100

110 35.3 18.6 55.8

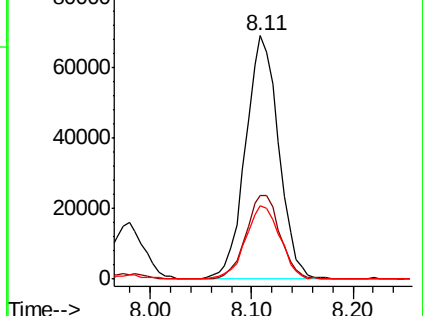
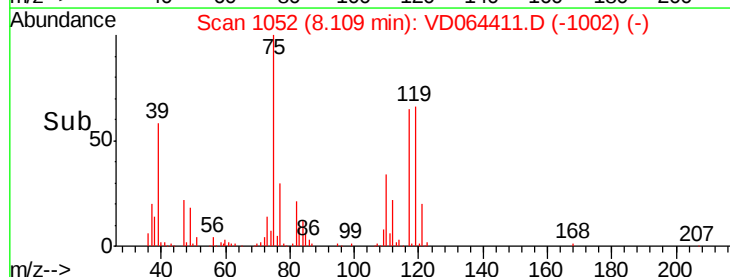
77 31.2 25.0 37.4

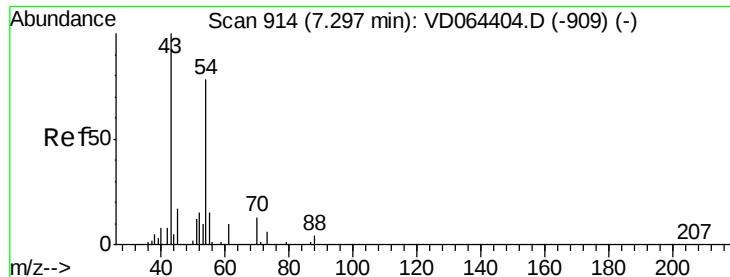


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

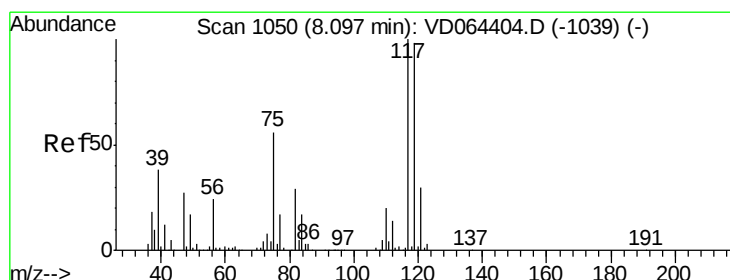
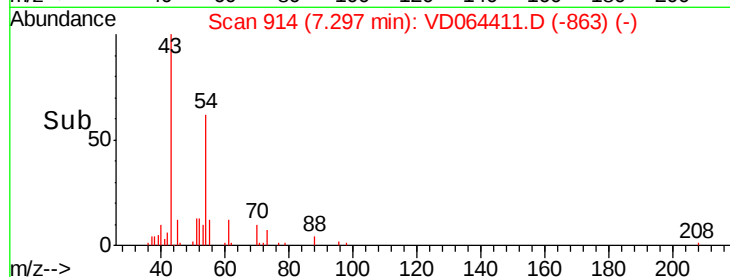
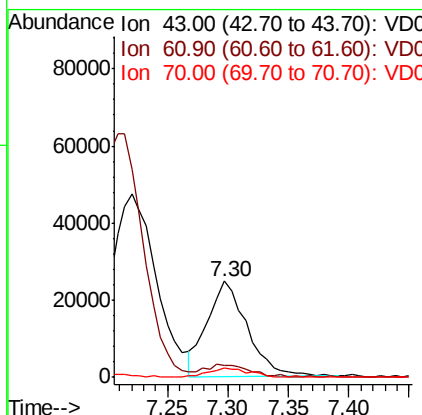
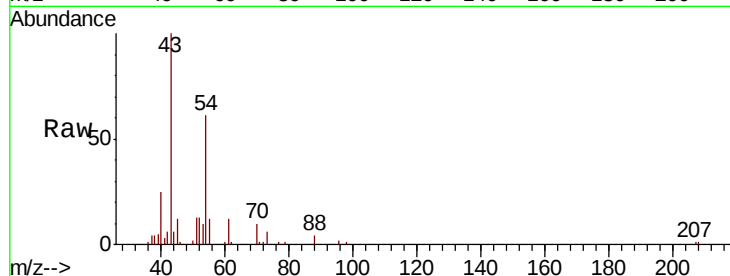




#37
Ethyl Acetate
Concen: 18.312 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

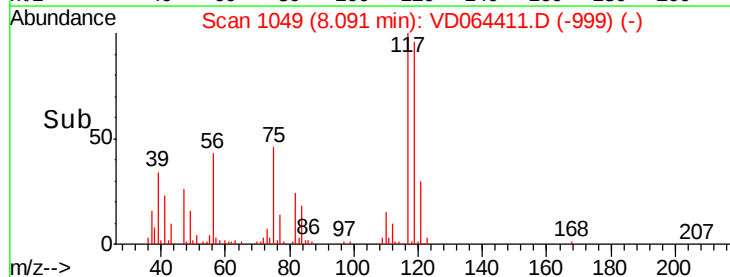
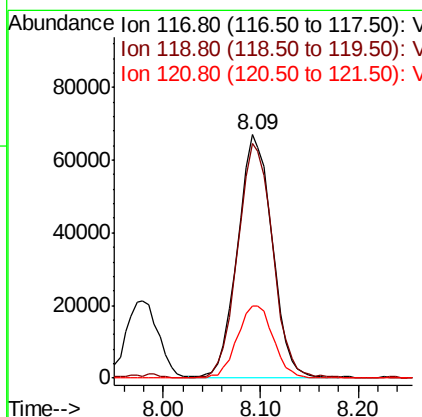
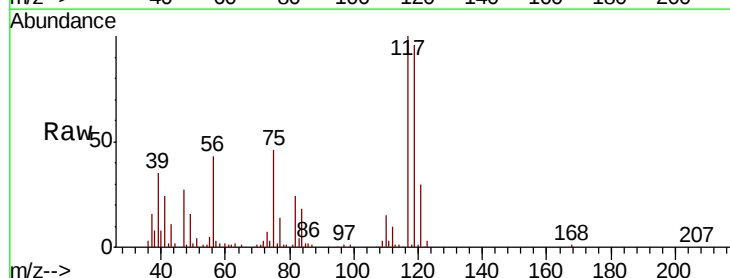
Instrument :
MSVOA_D
ClientSampleId :

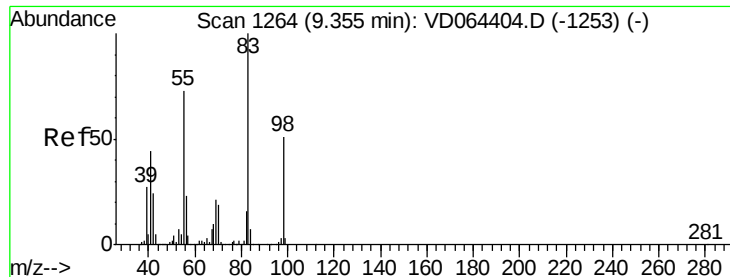
Tot Ion: 43 Resp: 56805
Ion Ratio Lower Upper
43 100
61 14.3 10.9 16.3
70 10.2 8.3 12.5



#38
Carbon Tetrachloride
Concen: 21.495 ug/l
RT: 8.09 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion: 117 Resp: 165856
Ion Ratio Lower Upper
117 100
119 96.2 78.8 118.2
121 29.5 24.2 36.2

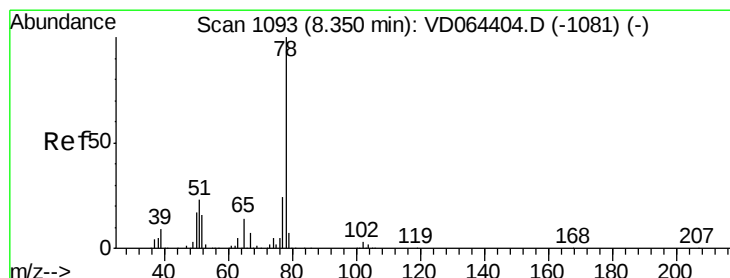
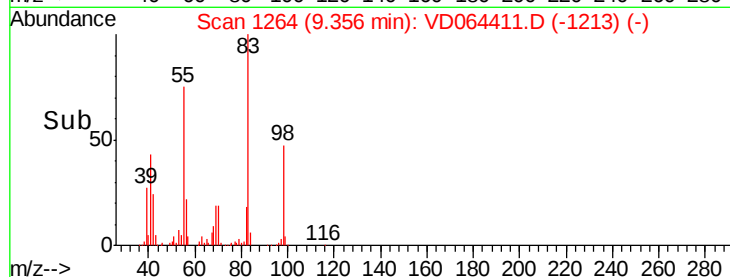
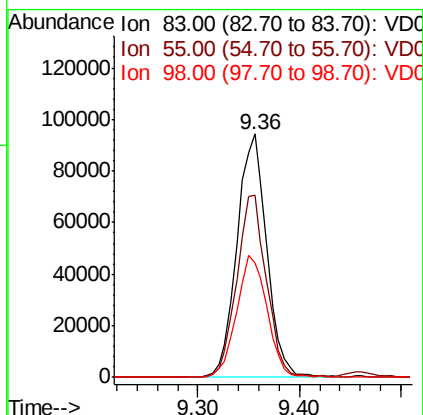
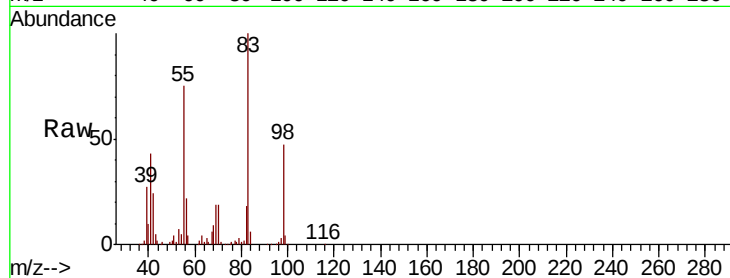




#39
Methvlcvclohexane
Concen: 21.200 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

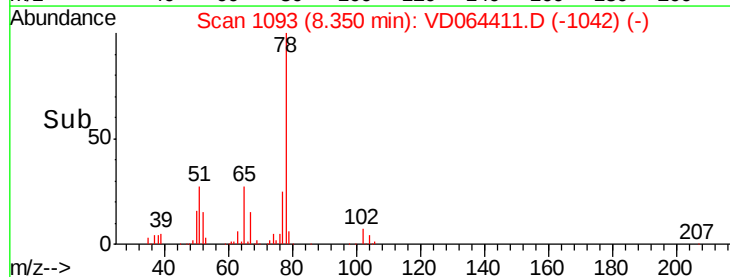
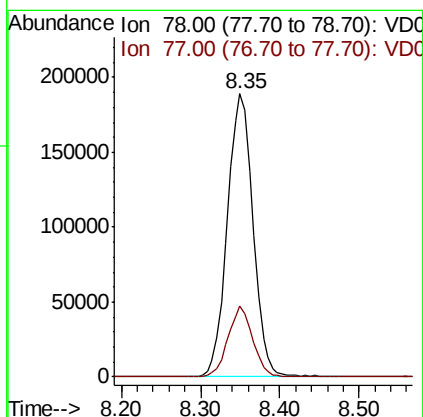
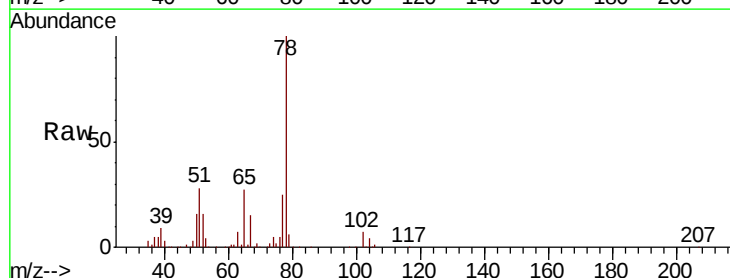
Instrument :
MSVOA_D
ClientSampleId :

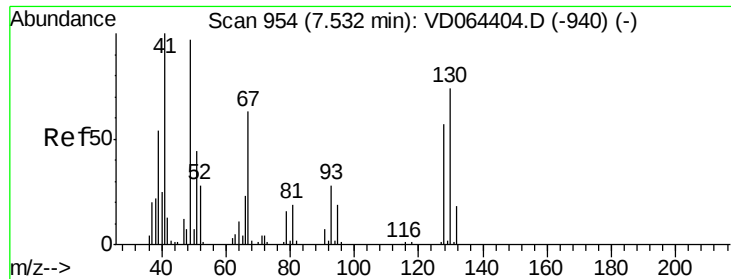
Tot Ion: 83 Resp: 192253
Ion Ratio Lower Upper
83 100
55 74.8 58.6 87.8
98 47.0 40.9 61.3



#40
Benzene
Concen: 20.853 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion: 78 Resp: 423425
Ion Ratio Lower Upper
78 100
77 24.9 19.6 29.4

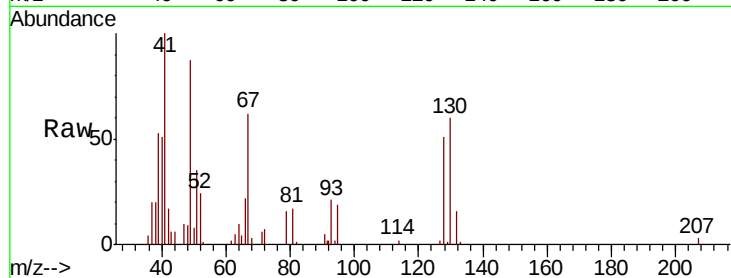




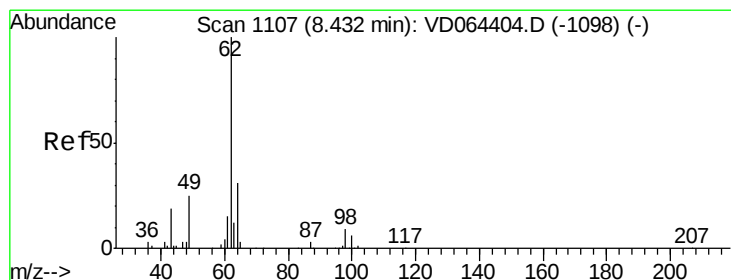
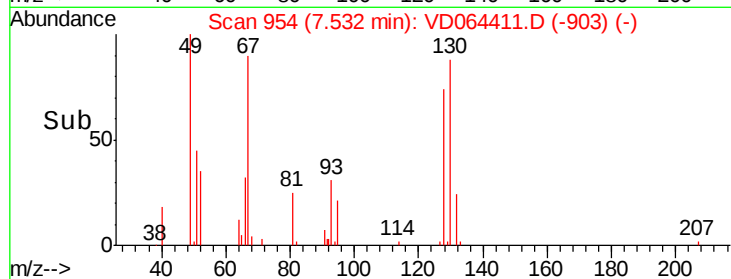
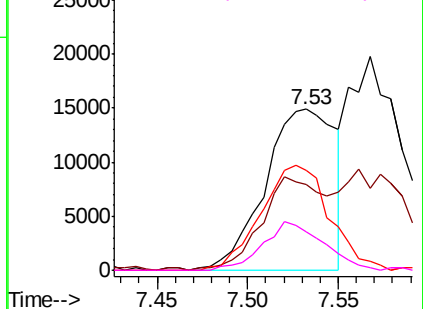
#41
Methacrylonitrile
Concen: 22.650 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	41	Resp:	40295
Ion	Ratio	Lower	Upper
41	100		
39	50.3	44.6	67.0
67	63.6	50.9	76.3
52	25.7	22.5	33.7

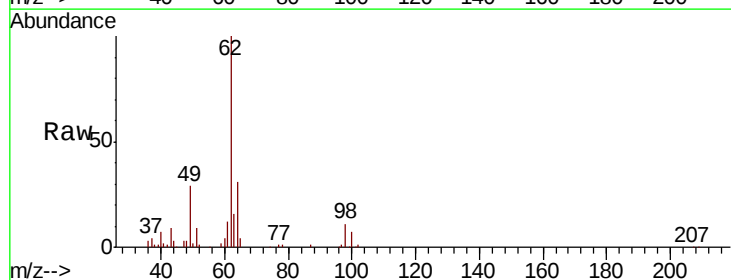


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

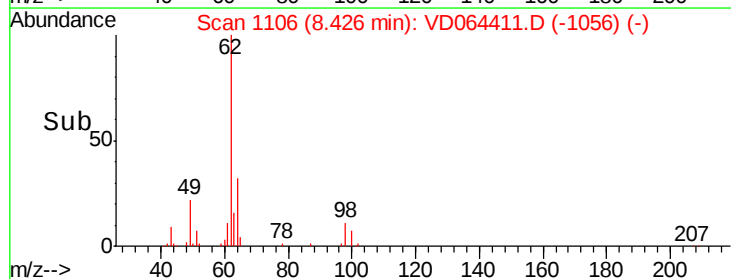
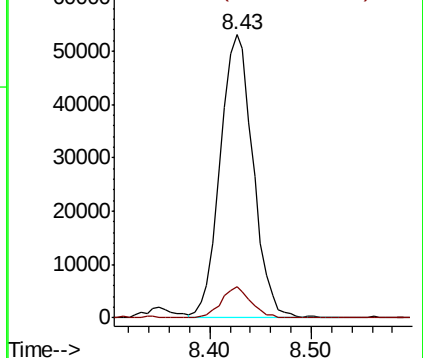


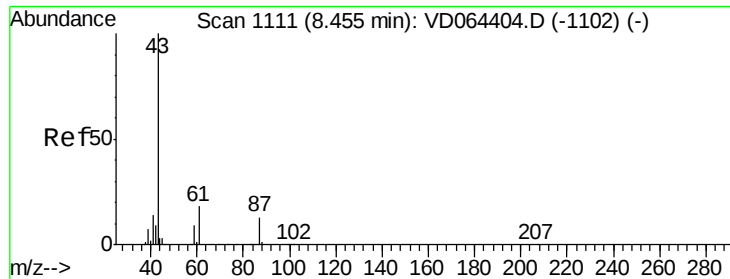
#42
1,2-Dichloroethane
Concen: 20.196 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion:	62	Resp:	119591
Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	20.6



Abundance Ion 61.90 (61.60 to 62.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 19.038 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampleId :

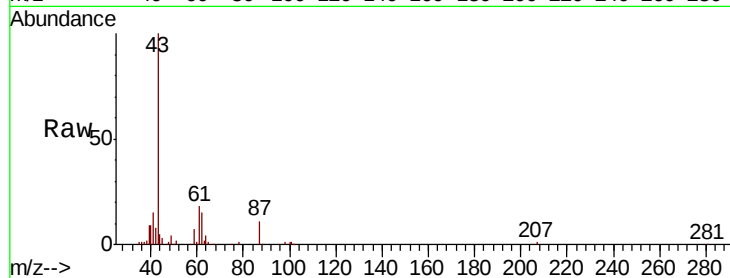
Tot Ion: 43 Resp: 116118

Ion Ratio Lower Upper

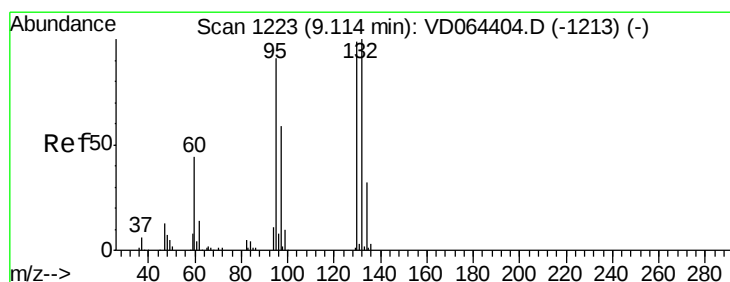
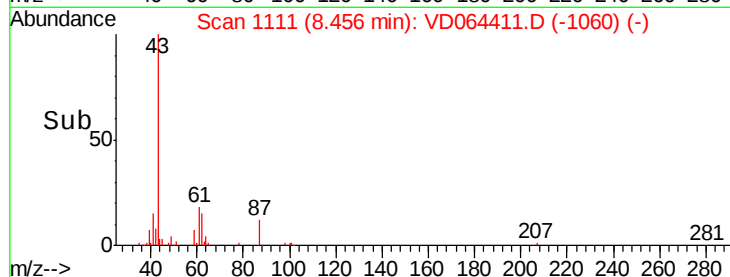
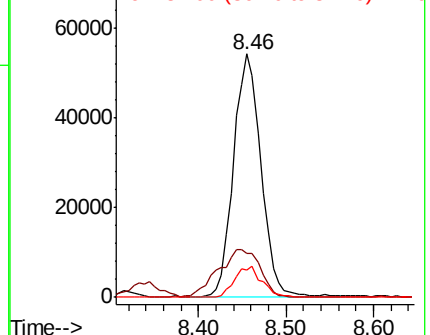
43 100

61 29.9 24.0 36.0

87 12.6 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: 20.453 ug/l

RT: 9.11 min Scan# 1222

Delta R.T. -0.01 min

Lab File: VD064411.D

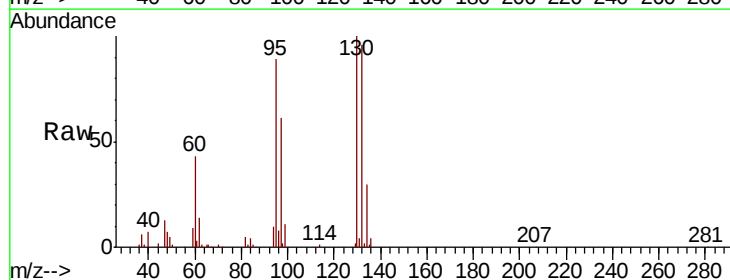
Acq: 04 Dec 2019 12:30

Tgt Ion:130 Resp: 125098

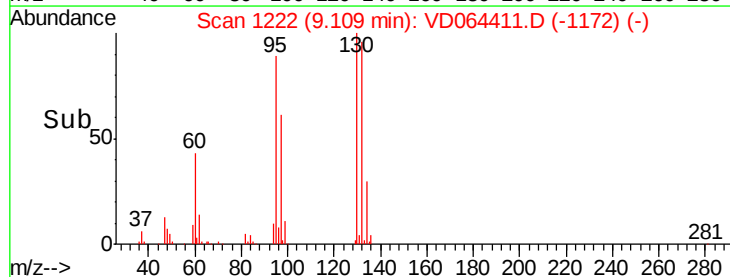
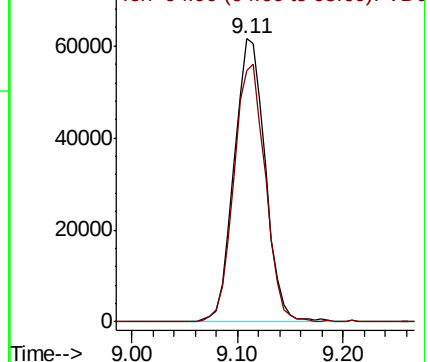
Ion Ratio Lower Upper

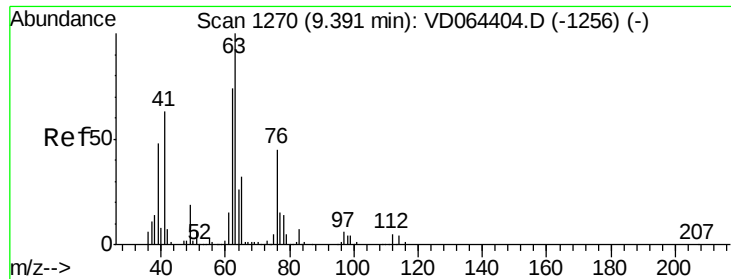
130 100

95 89.0 0.0 184.6



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

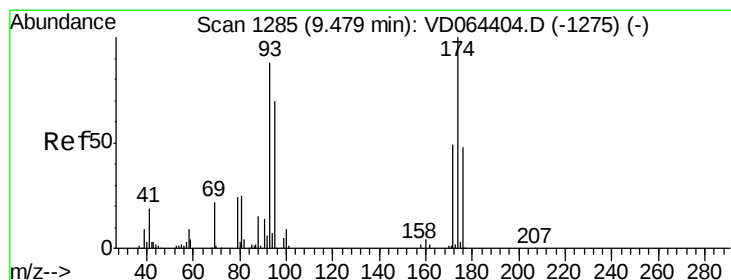
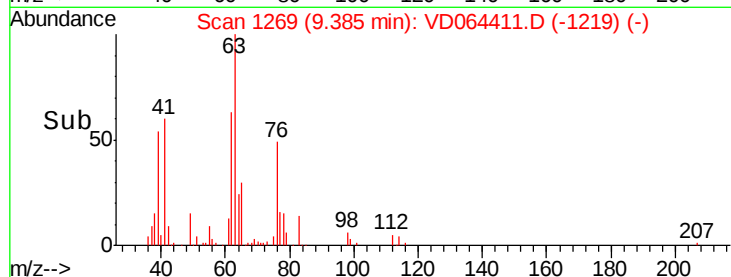
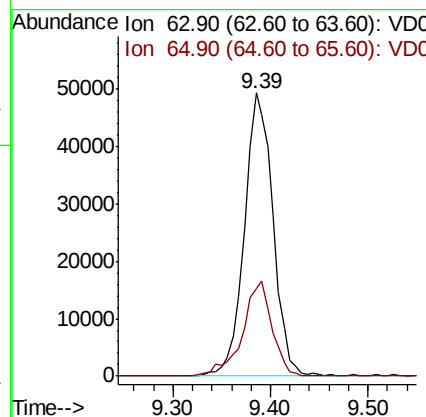
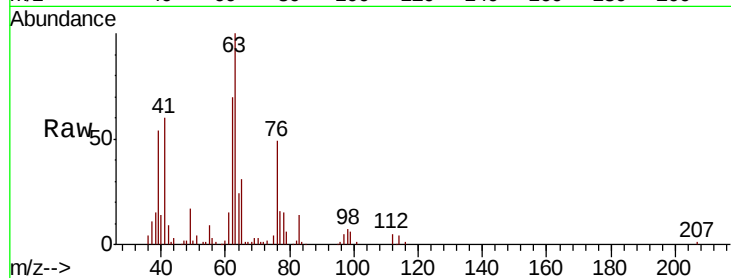




#45
 1,2-Dichloropropane
 Concen: 20.755 ug/l
 RT: 9.39 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

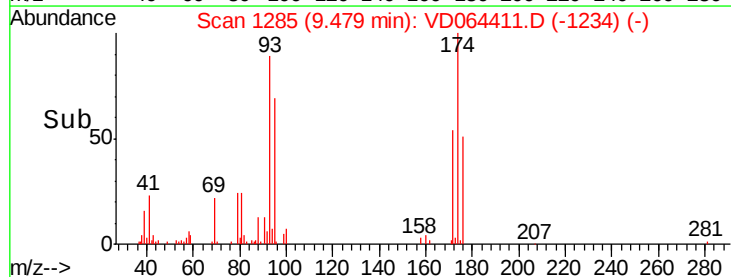
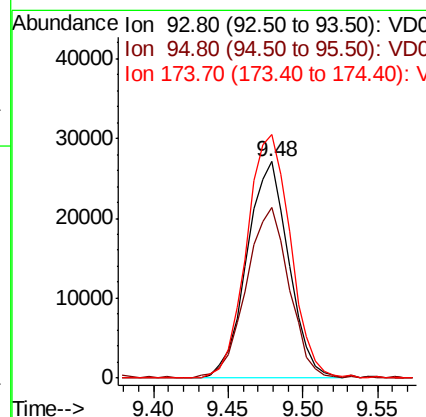
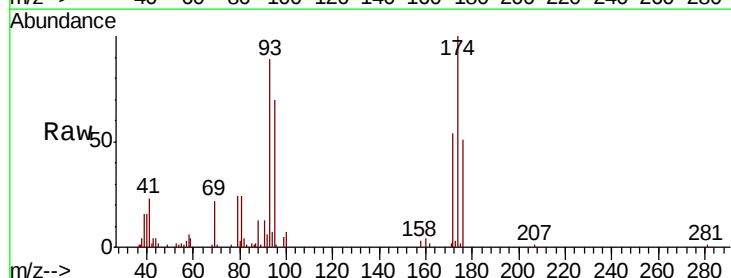
Instrument :
 MSVOA_D
 ClientSampled :

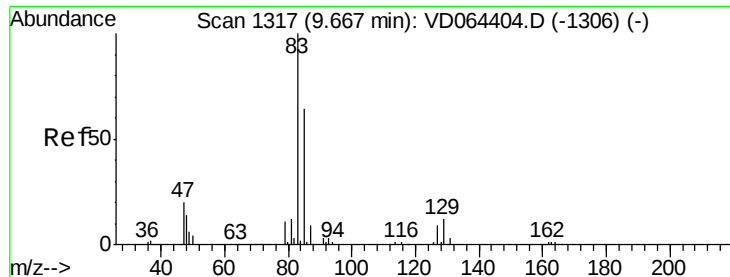
Tot Ion: 63 Resp: 100791
 Ion Ratio Lower Upper
 63 100
 65 30.9 25.4 38.0



#46
 Dibromomethane
 Concen: 19.191 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Tgt Ion: 93 Resp: 52598
 Ion Ratio Lower Upper
 93 100
 95 80.6 66.7 100.1
 174 117.6 92.3 138.5





#47

Bromodichloromethane

Concen: 20.231 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampleId :

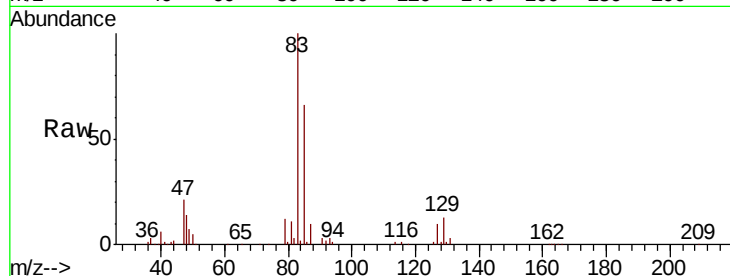
Tot Ion: 83 Resp: 142478

Ion Ratio Lower Upper

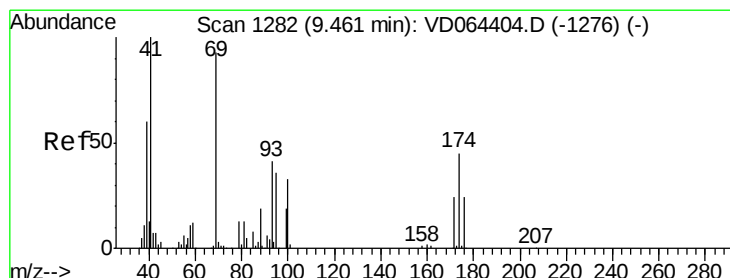
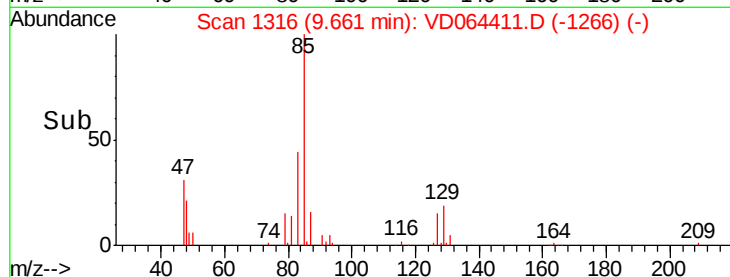
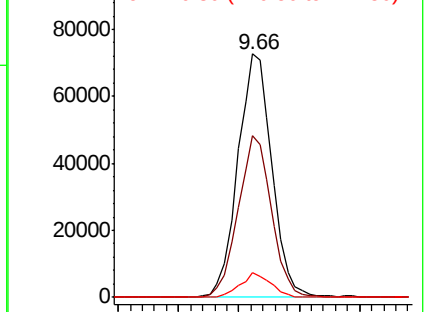
83 100

85 66.2 51.1 76.7

127 10.0 7.4 11.0



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



#48

Methyl methacrylate

Concen: 20.513 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

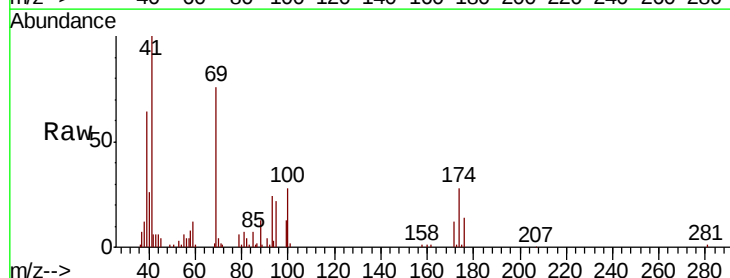
Tgt Ion: 41 Resp: 57252

Ion Ratio Lower Upper

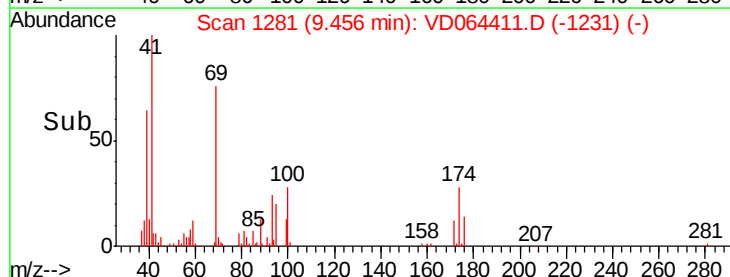
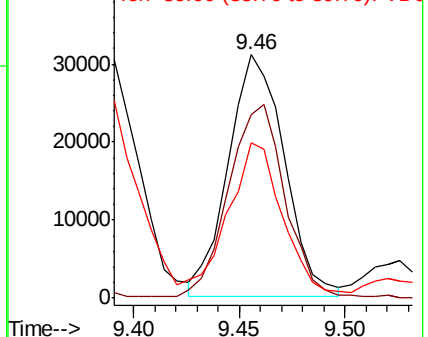
41 100

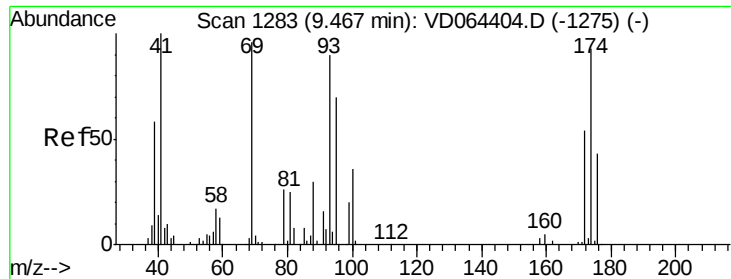
69 81.5 72.0 108.0

39 62.1 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: 362.861 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampleId :

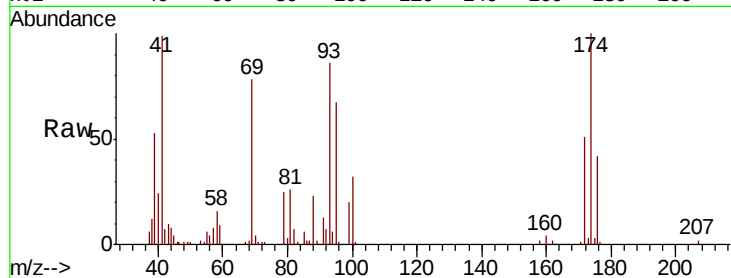
Tot Ion: 88 Resp: 12281

Ion Ratio Lower Upper

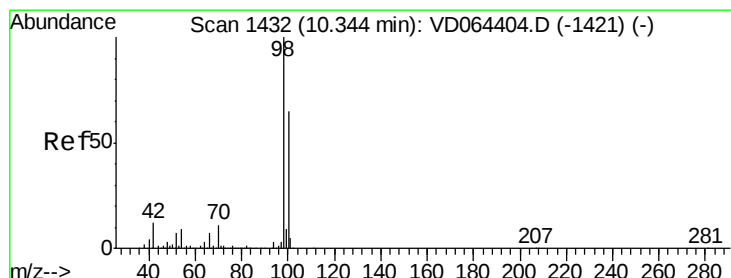
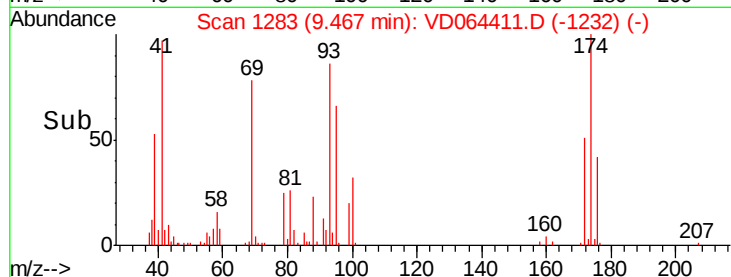
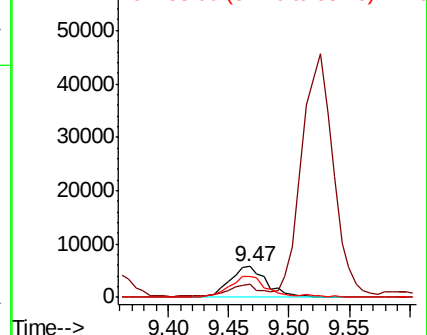
88 100

43 33.9 26.7 40.1

58 71.0 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: 51.437 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064411.D

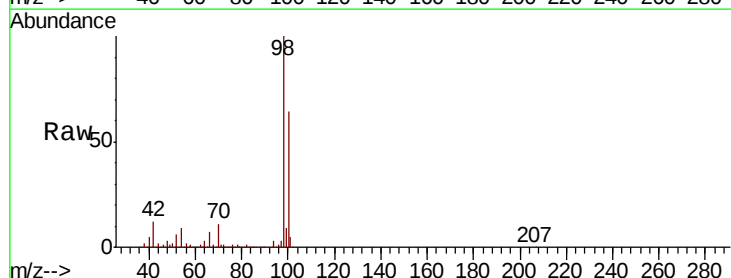
Acq: 04 Dec 2019 12:30

Tgt Ion: 98 Resp: 943568

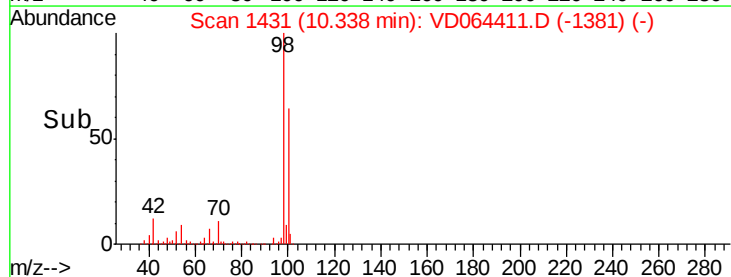
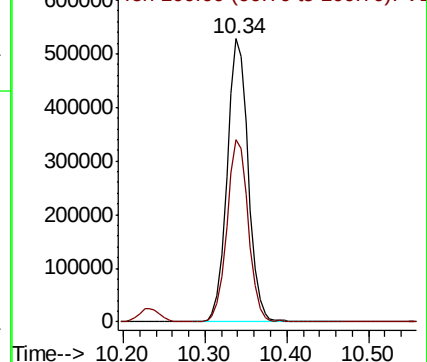
Ion Ratio Lower Upper

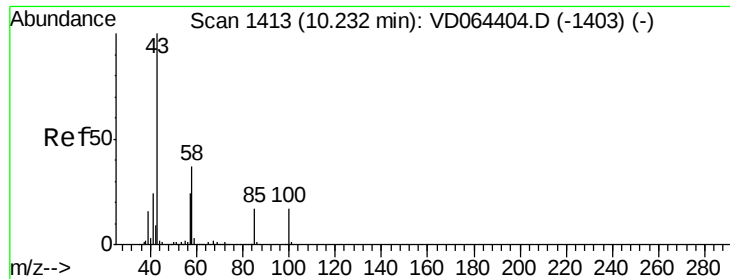
98 100

100 65.0 52.6 79.0



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

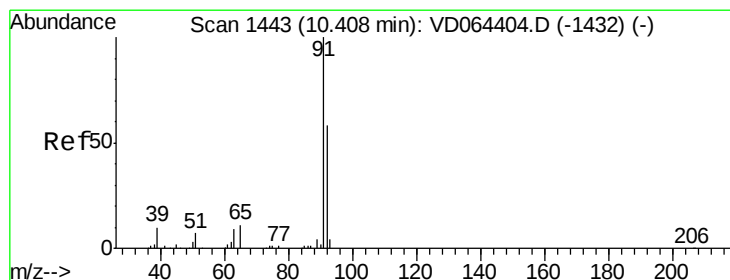
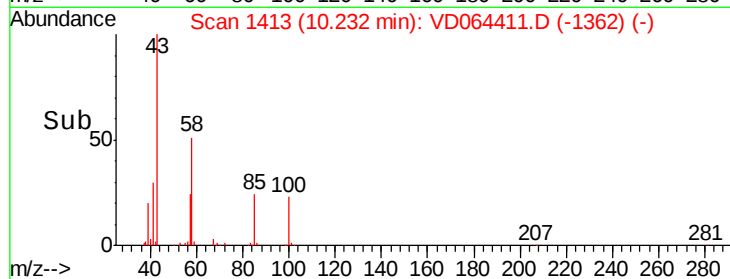
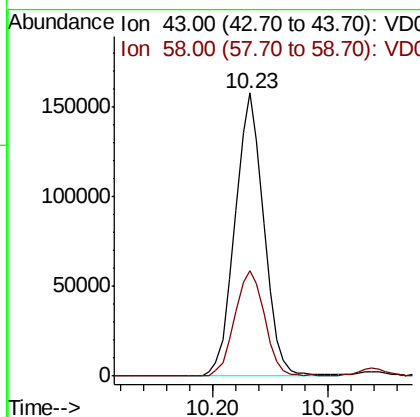
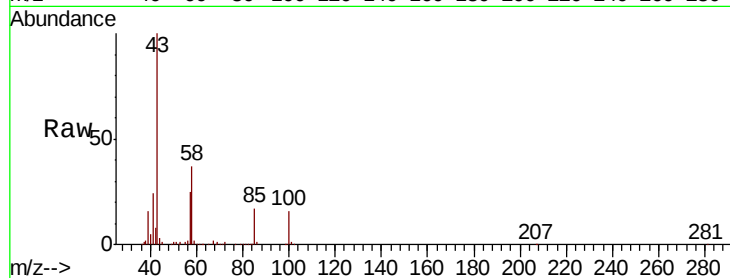




#51
4-Methyl-2-Pentanone
Concen: 90.589 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

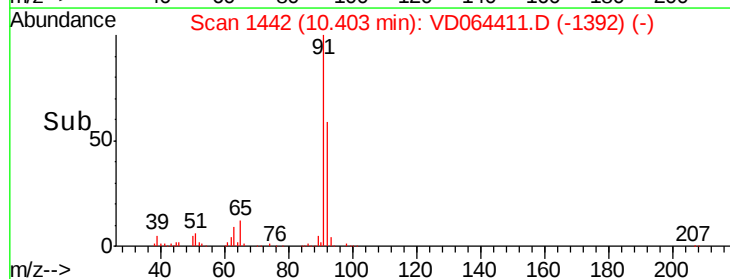
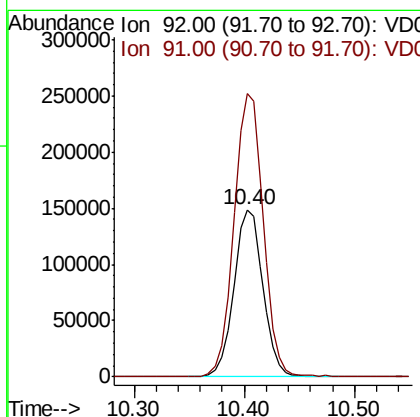
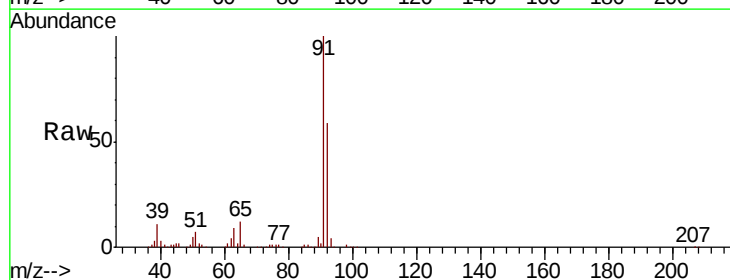
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 273390
Ion Ratio Lower Upper
43 100
58 38.5 30.6 46.0



#52
Toluene
Concen: 20.732 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion: 92 Resp: 274343
Ion Ratio Lower Upper
92 100
91 170.8 137.8 206.6





#53

t-1,3-Dichloropropene

Concen: 19.982 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

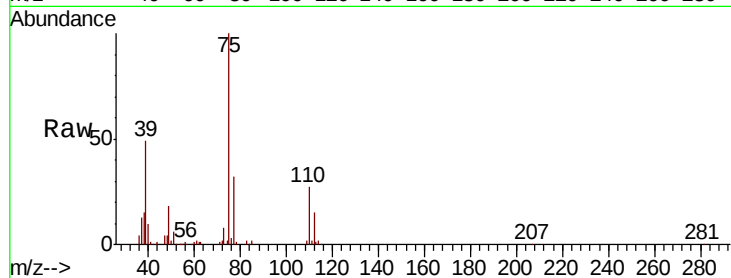
ClientSampleId :

Tot Ion: 75 Resp: 134111

Ion Ratio Lower Upper

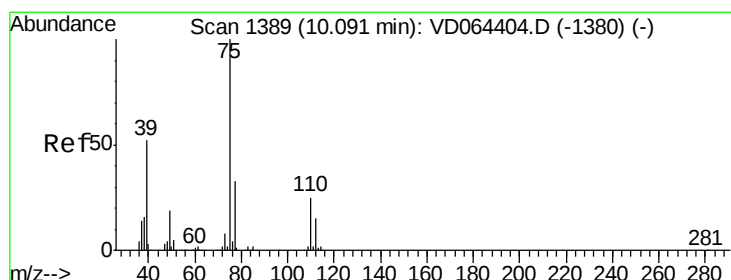
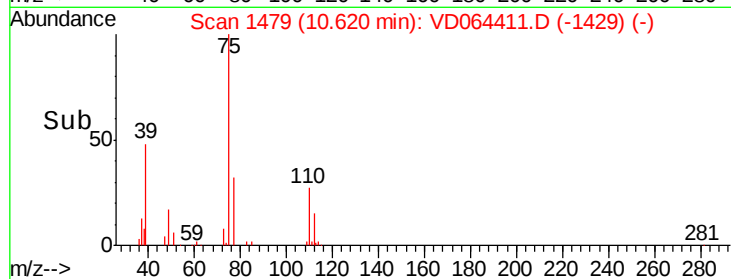
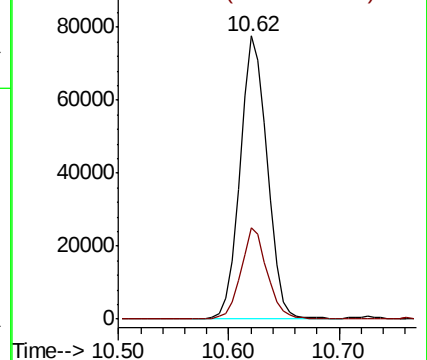
75 100

77 32.4 25.0 37.4



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 20.214 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

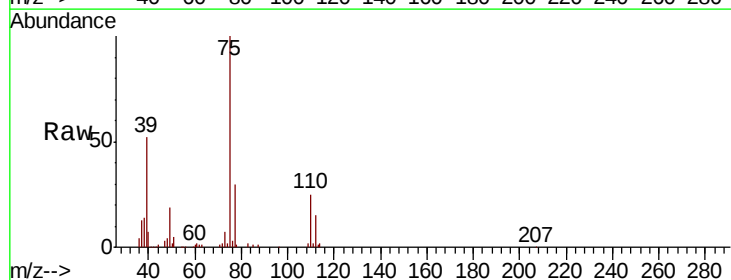
Tgt Ion: 75 Resp: 161175

Ion Ratio Lower Upper

75 100

77 29.6 26.1 39.1

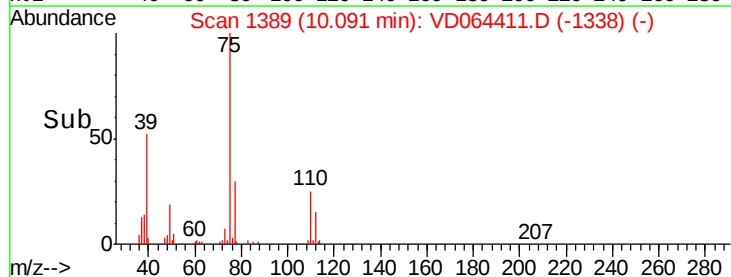
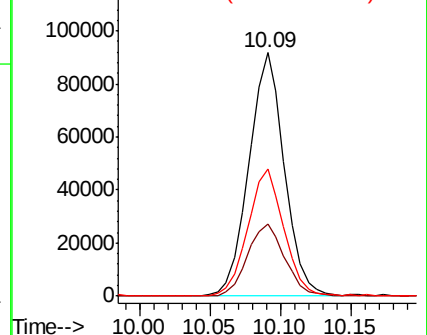
39 52.0 41.5 62.3

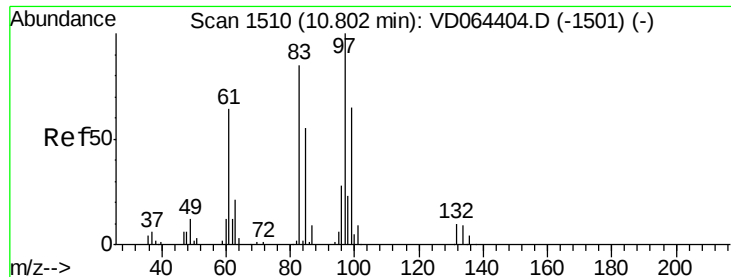


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

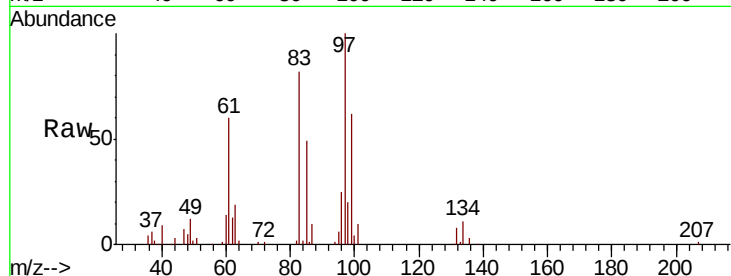




#55
 1,1,2-Trichloroethane
 Concen: 19.767 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
97	100		
83	81.6	67.8	101.8
85	48.6	43.7	65.5
99	61.8	51.7	77.5



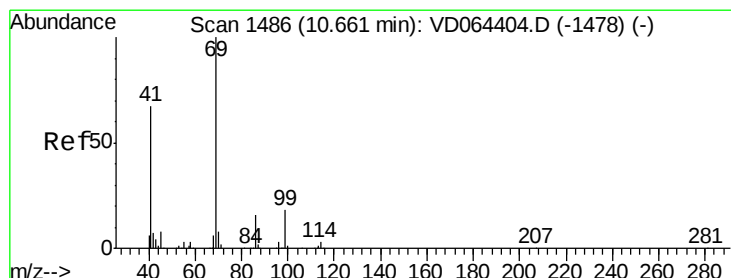
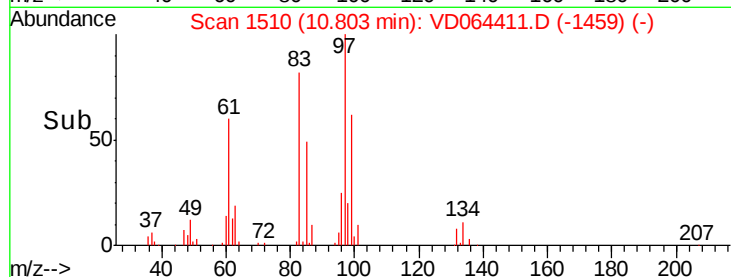
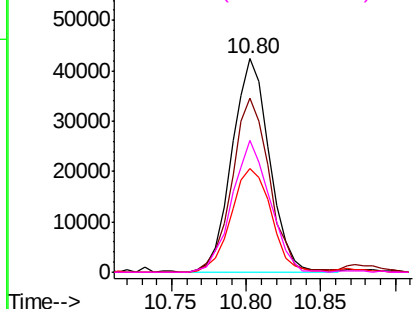
Abundance

Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

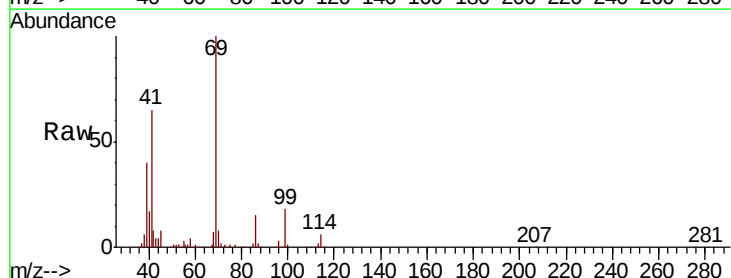
Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56
 Ethyl methacrylate
 Concen: 19.264 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Tgt Ion	Ratio	Lower	Upper
69	100		
41	67.1	55.0	82.4
39	41.7	33.0	49.6

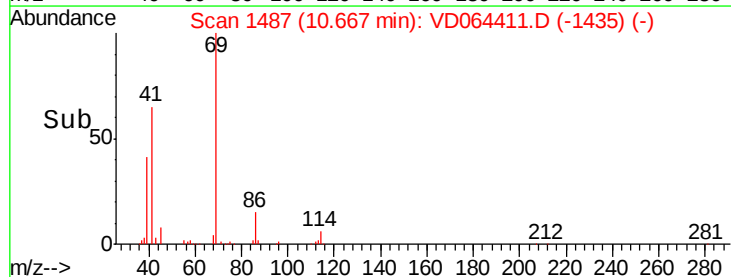
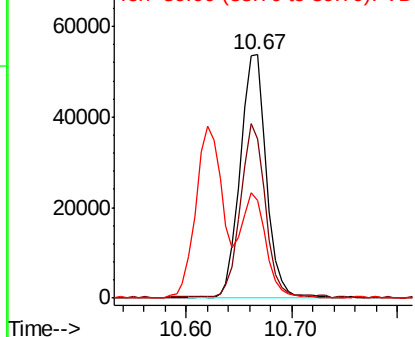


Abundance

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: 19.413 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

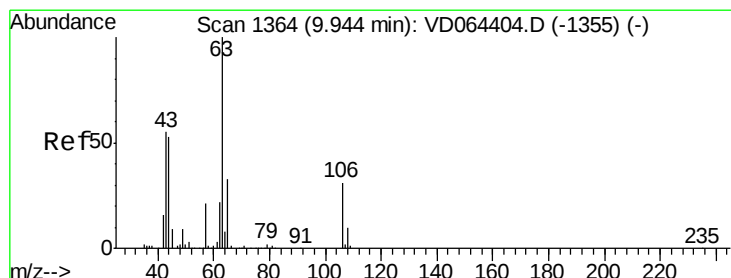
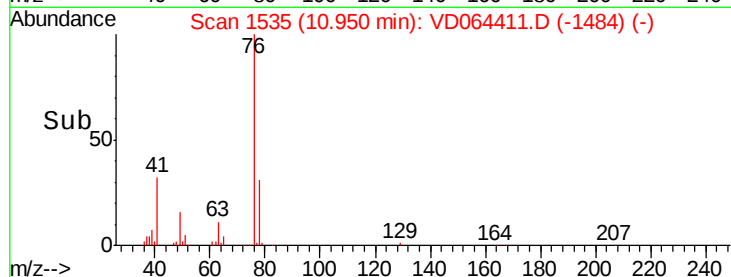
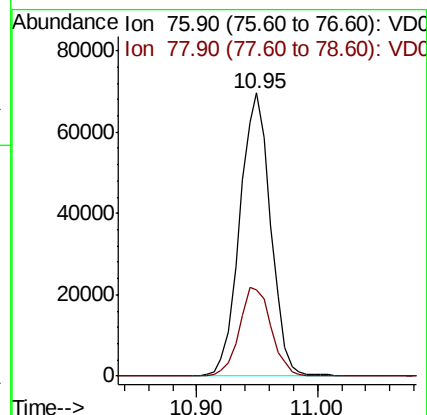
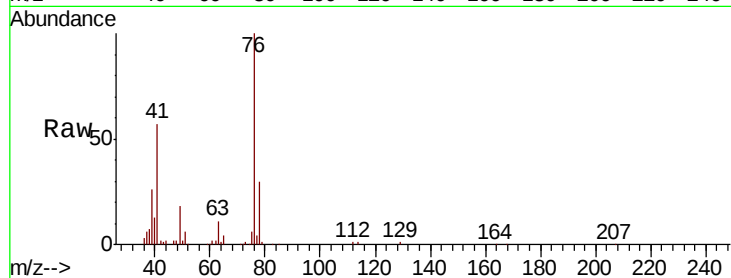
ClientSampleId :

Tot Ion: 76 Resp: 124022

Ion Ratio Lower Upper

76 100

78 32.5 26.0 39.0



#58

2-Chloroethyl Vinyl ether

Concen: 98.127 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD064411.D

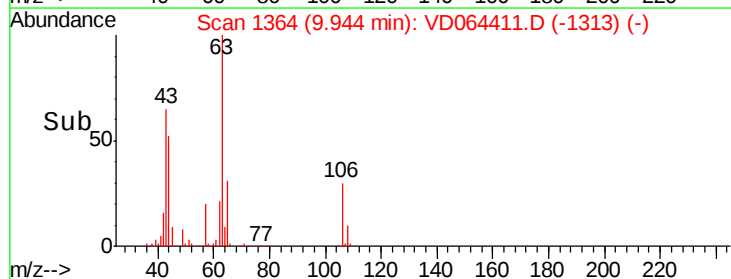
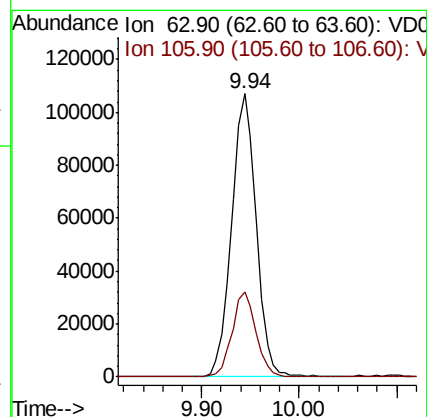
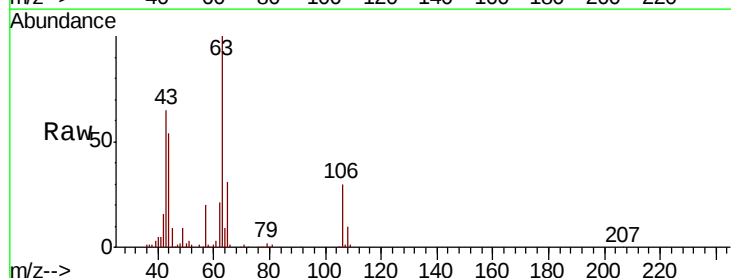
Acq: 04 Dec 2019 12:30

Tgt Ion: 63 Resp: 187241

Ion Ratio Lower Upper

63 100

106 29.0 24.2 36.4

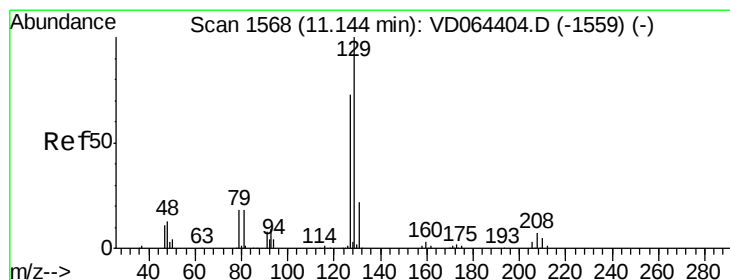
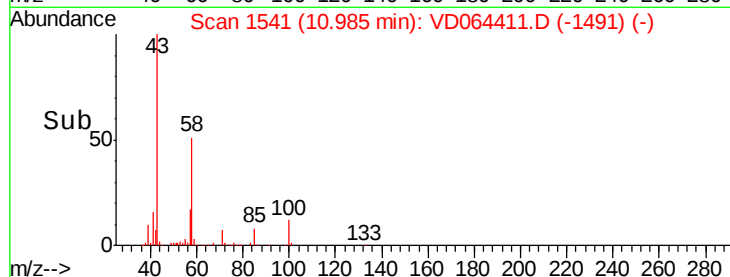
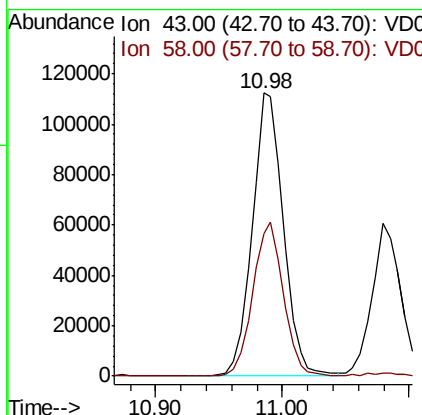
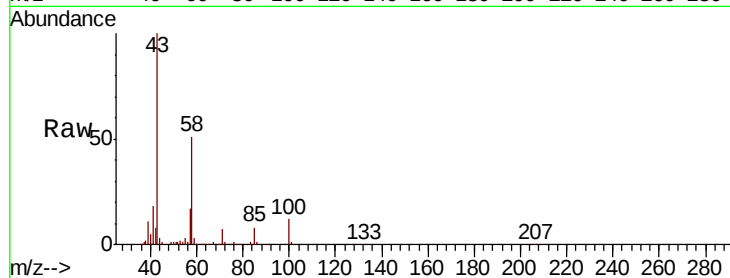




#59
2-Hexanone
Concen: 91.772 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

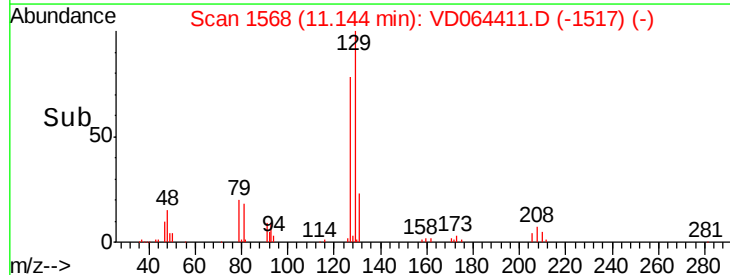
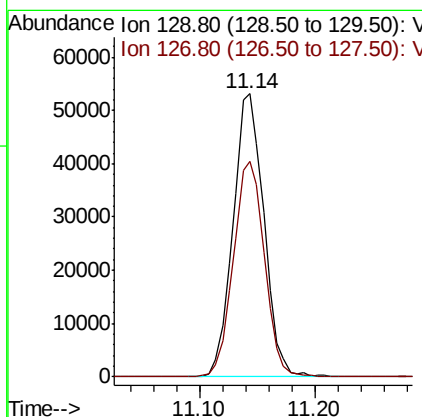
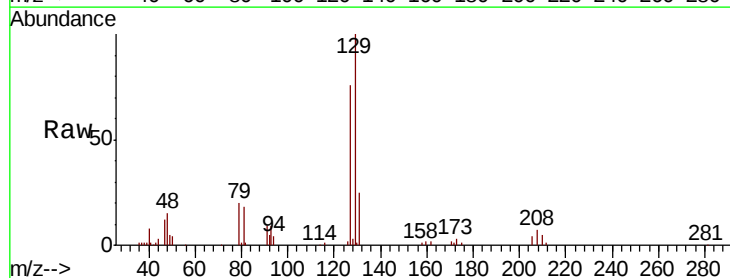
Instrument :
MSVOA_D
ClientSampled :

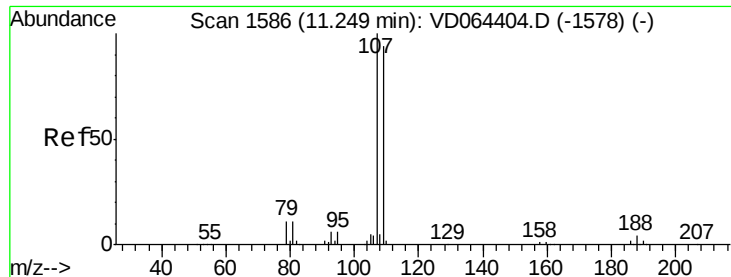
Tot Ion: 43 Resp: 192181
Ion Ratio Lower Upper
43 100
58 53.0 26.3 78.8



#60
Dibromochloromethane
Concen: 19.270 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion: 129 Resp: 98056
Ion Ratio Lower Upper
129 100
127 76.7 38.1 114.3

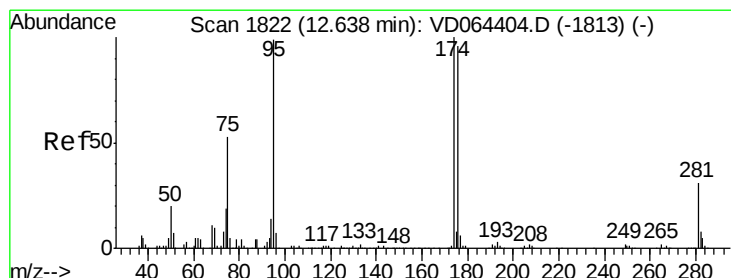
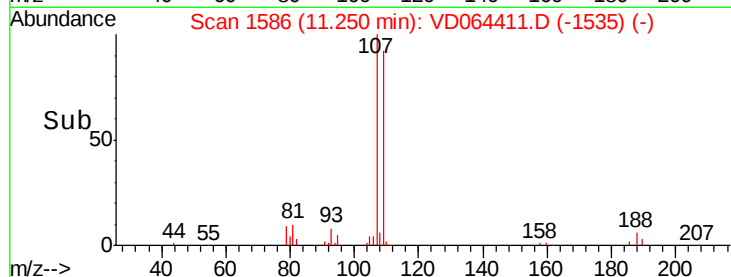
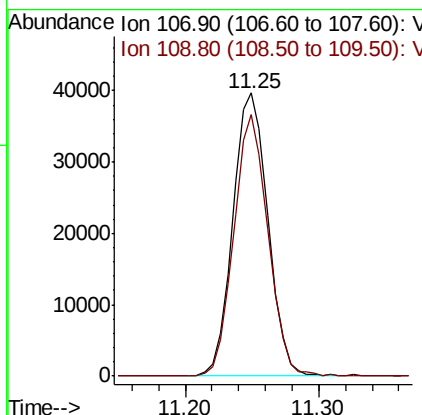
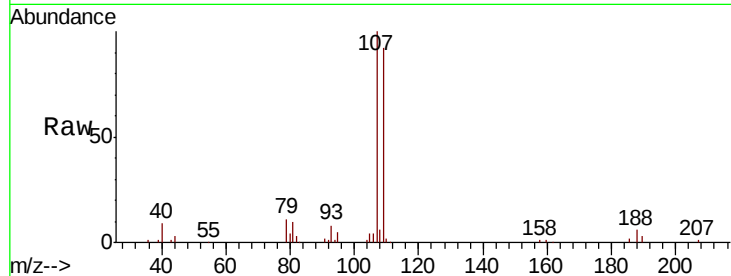




#61
 1,2-Dibromoethane
 Concen: 19.246 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

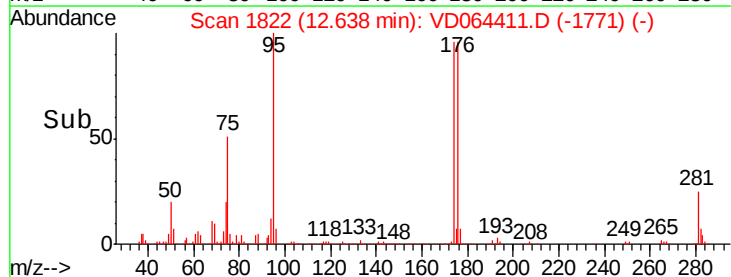
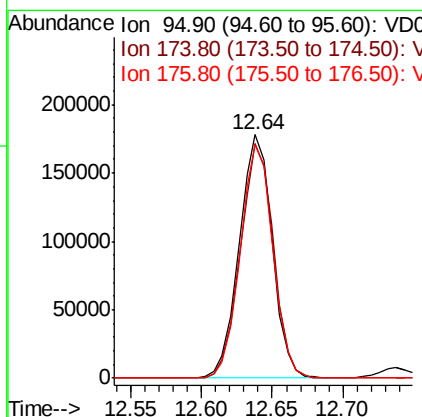
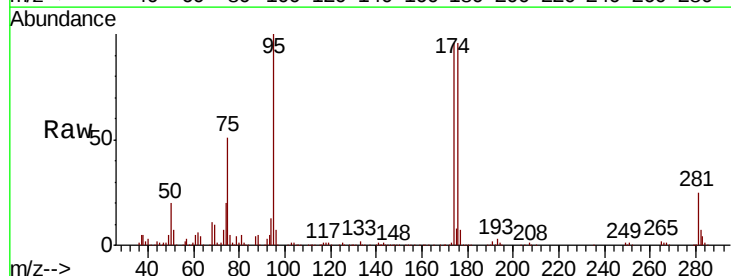
Instrument :
 MSVOA_D
 ClientSampleId :

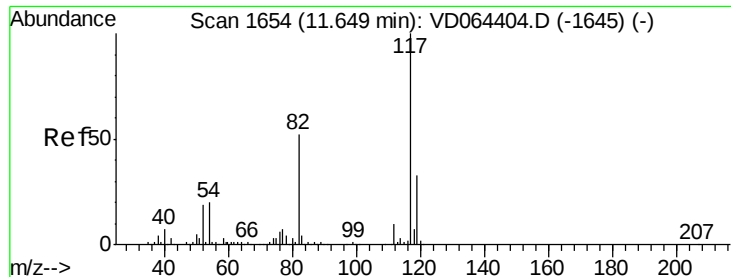
Tot Ion: 107 Resp: 72116
 Ion Ratio Lower Upper
 107 100
 109 90.2 76.2 114.2



#62
 4-Bromofluorobenzene
 Concen: 49.438 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Tgt Ion: 95 Resp: 291452
 Ion Ratio Lower Upper
 95 100
 174 96.3 0.0 197.2
 176 94.6 0.0 189.6

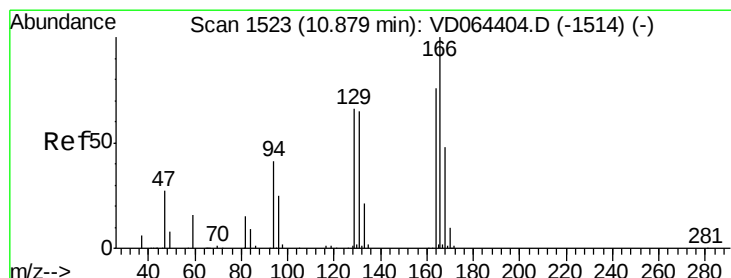
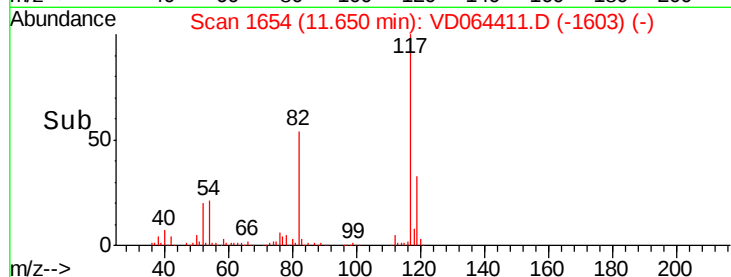
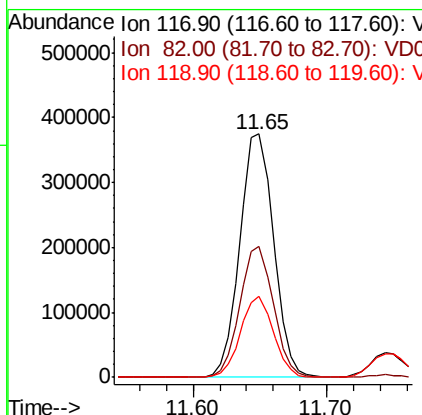
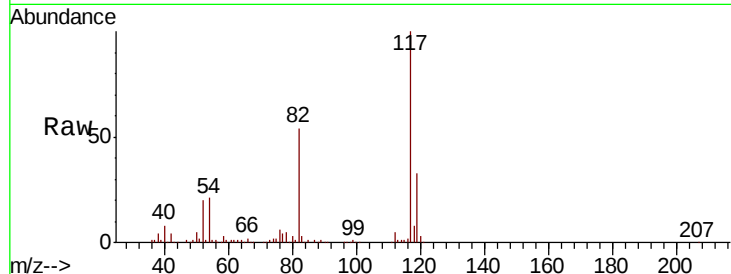




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

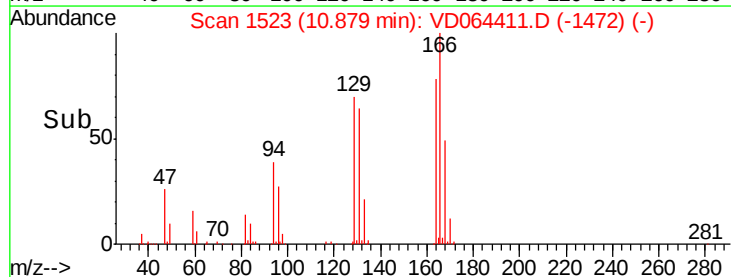
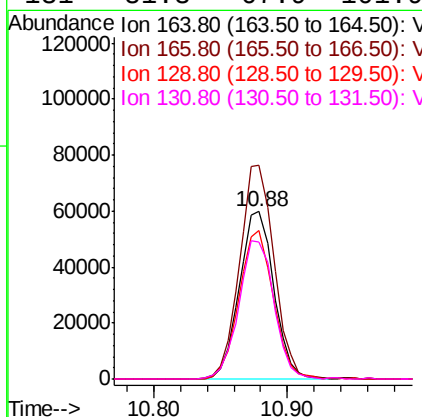
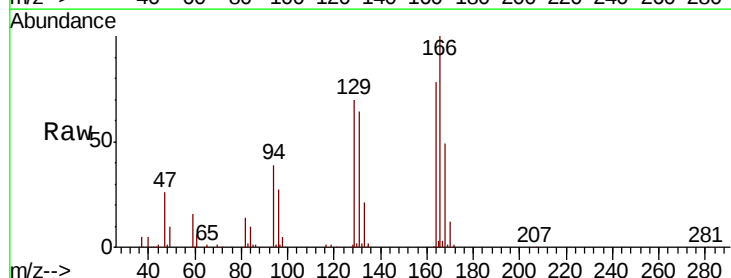
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 659725
Ion Ratio Lower Upper
117 100
82 53.7 41.4 62.2
119 33.2 26.2 39.2



#64
Tetrachloroethene
Concen: 21.304 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion:164 Resp: 107179
Ion Ratio Lower Upper
164 100
166 127.4 104.8 157.2
129 88.6 68.7 103.1
131 81.3 67.9 101.9

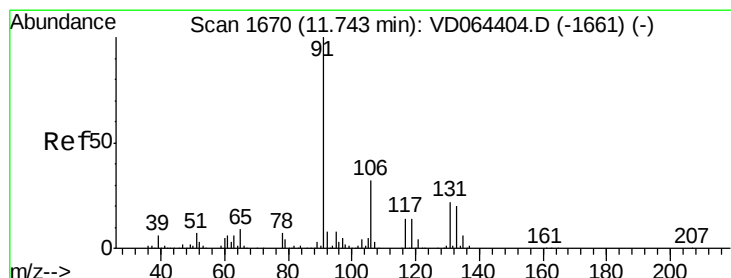
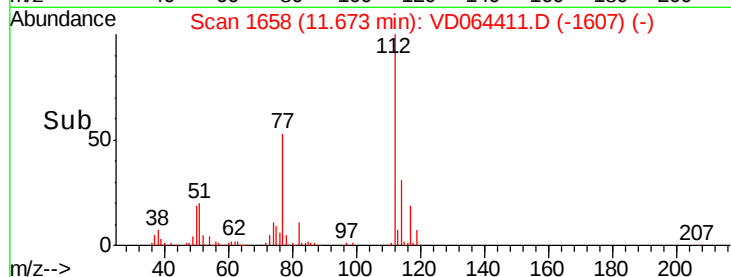
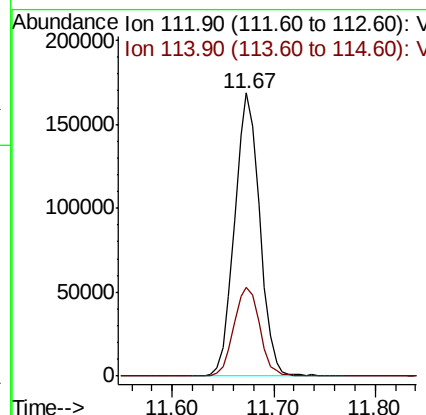
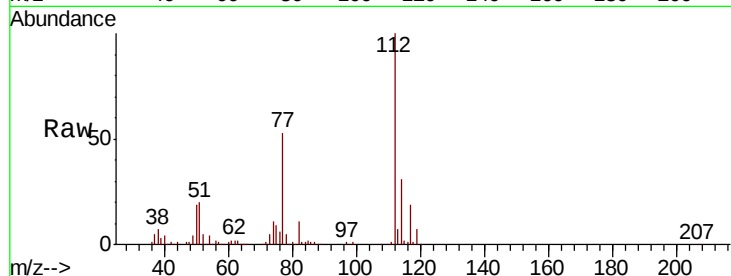




#65
Chlorobenzene
Concen: 21.037 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

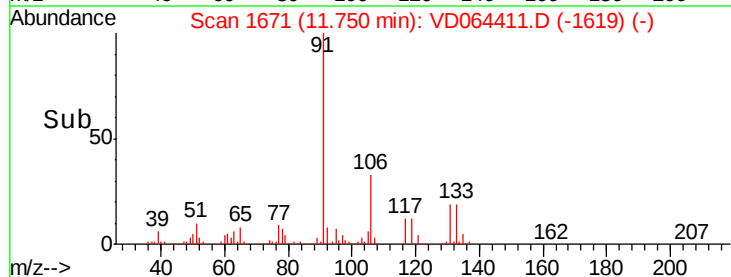
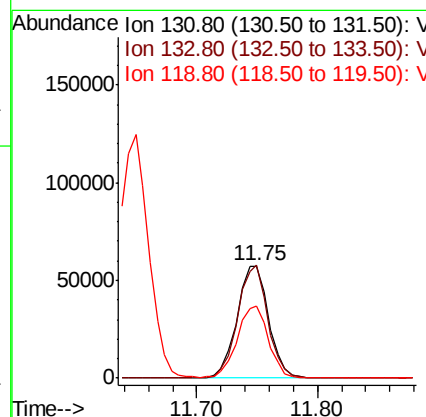
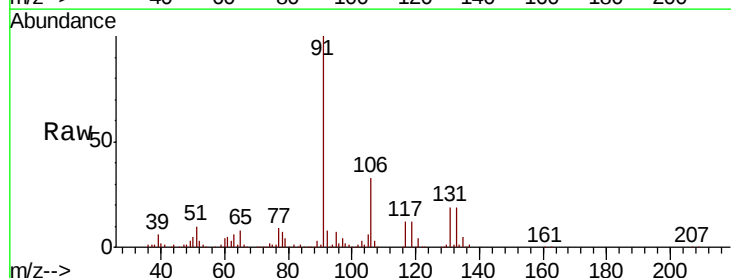
Instrument :
MSVOA_D
ClientSampled :

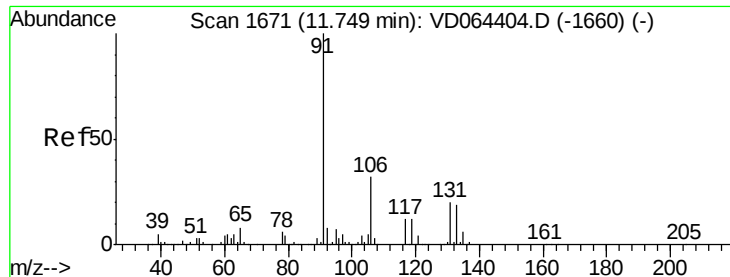
Tot Ion:112 Resp: 289468
Ion Ratio Lower Upper
112 100
114 31.2 26.5 39.7



#66
1,1,1,2-Tetrachloroethane
Concen: 20.510 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion:131 Resp: 104470
Ion Ratio Lower Upper
131 100
133 95.5 48.3 144.9
119 63.9 31.9 95.9





#67

Ethyl Benzene

Concen: 20.815 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

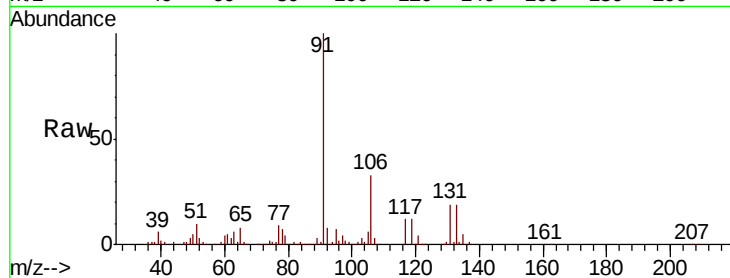
ClientSampled :

Tot Ion: 91 Resp: 509589

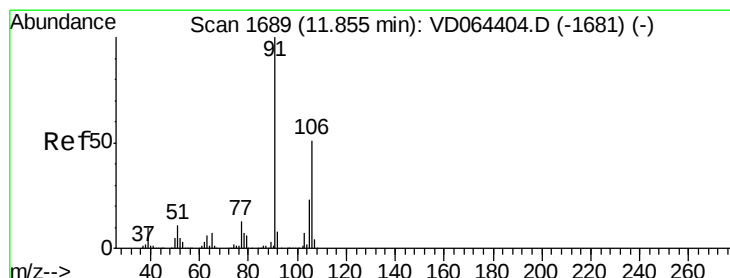
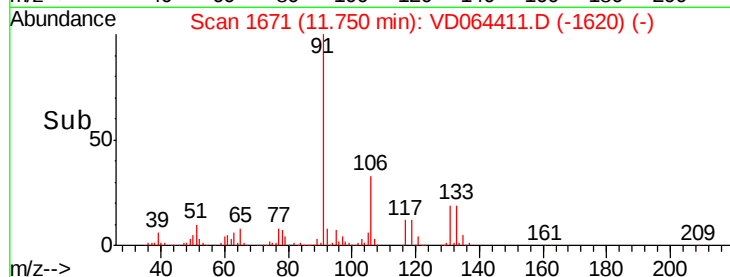
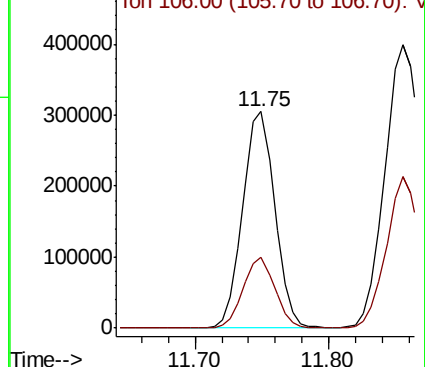
Ion Ratio Lower Upper

91 100

106 32.7 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): VDC



#68

m/p-Xylenes

Concen: 41.707 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064411.D

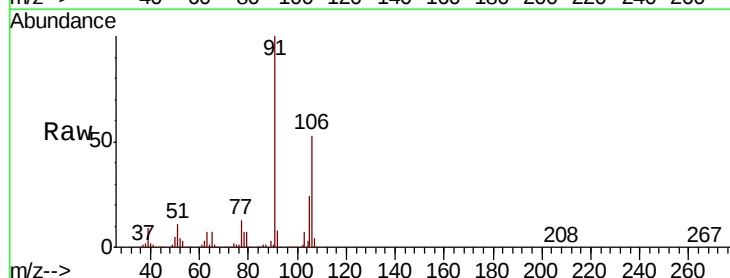
Acq: 04 Dec 2019 12:30

Tgt Ion: 106 Resp: 389321

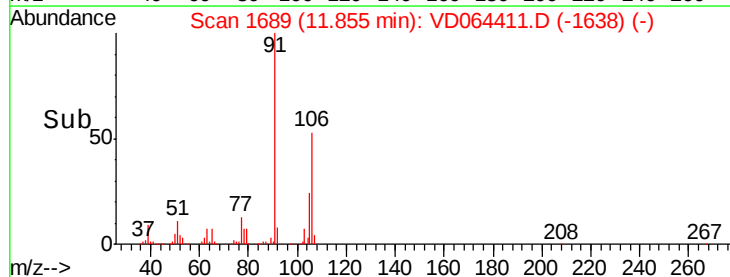
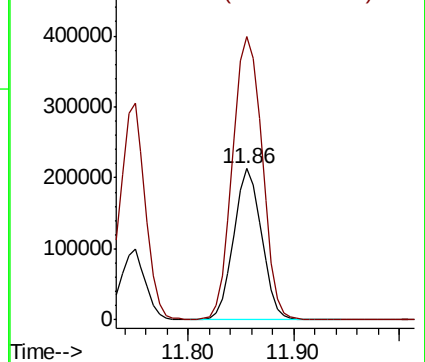
Ion Ratio Lower Upper

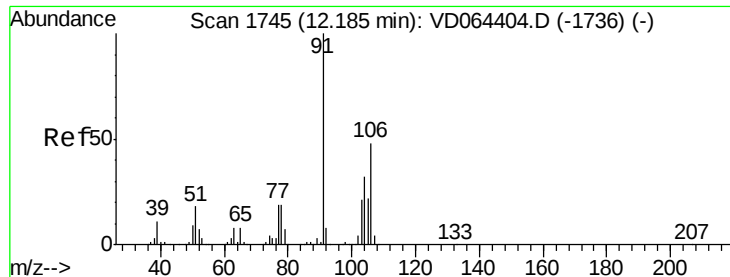
106 100

91 198.7 157.4 236.2



Abundance Ion 106.00 (105.70 to 106.70): VDC

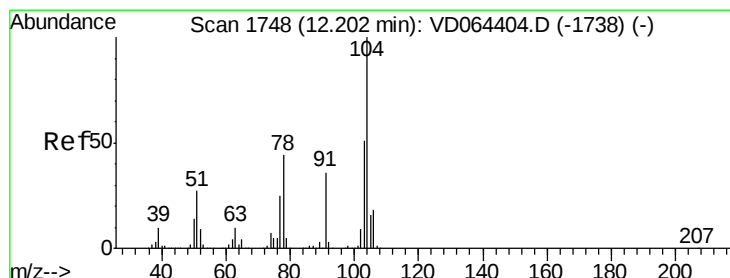
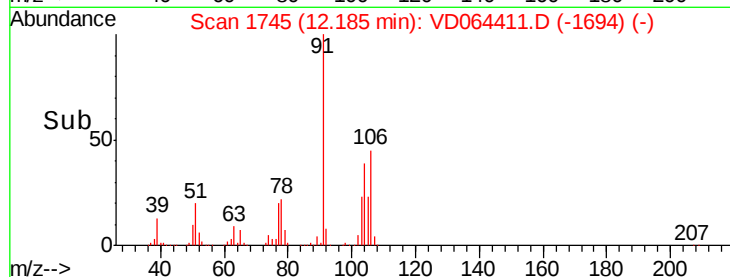
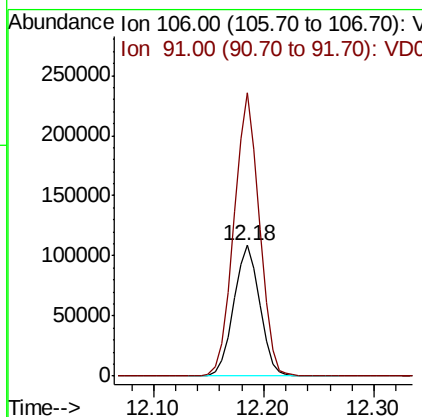
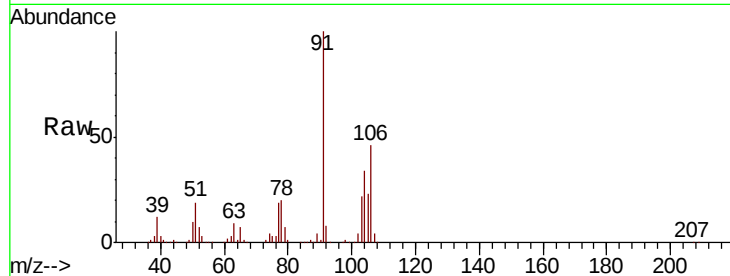




#69
o-Xylene
Concen: 20.923 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

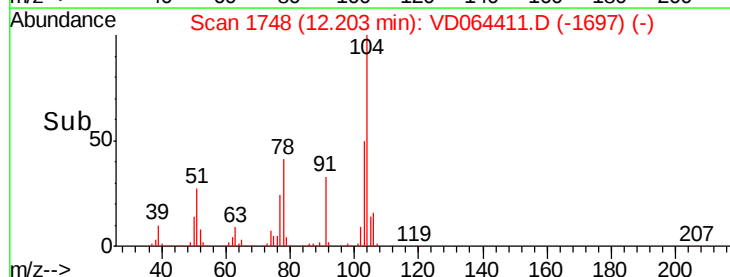
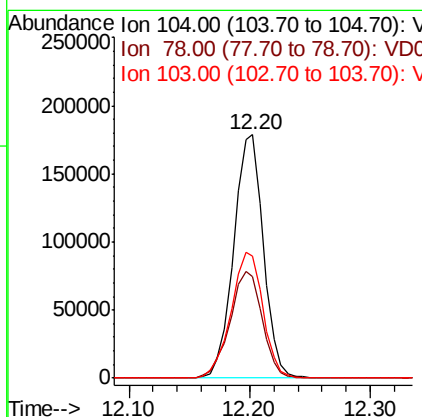
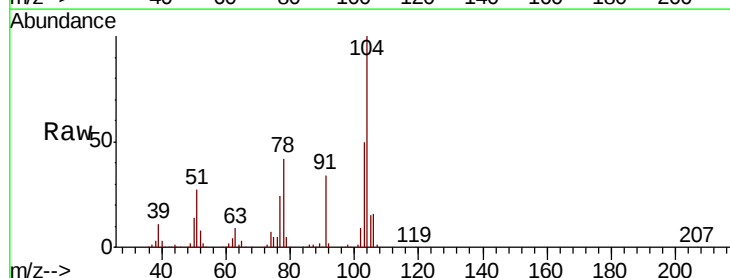
Instrument :
MSVOA_D
ClientSampled :

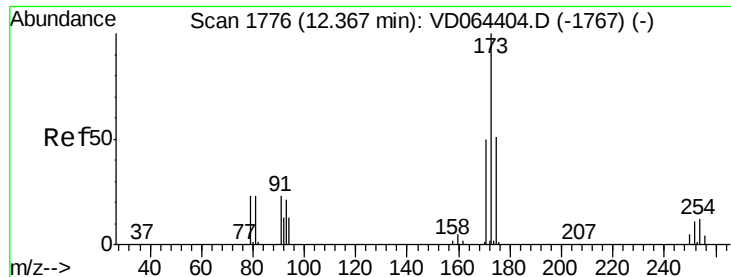
Tot Ion:106 Resp: 180382
Ion Ratio Lower Upper
106 100
91 211.2 103.8 311.4



#70
Styrene
Concen: 20.415 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion:104 Resp: 305843
Ion Ratio Lower Upper
104 100
78 47.7 38.8 58.2
103 55.7 44.2 66.4





#71

Bromoform

Concen: 18.752 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampleId :

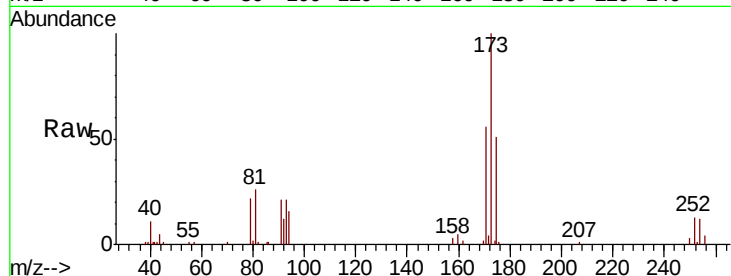
Tot Ion:173 Resp: 57146

Ion Ratio Lower Upper

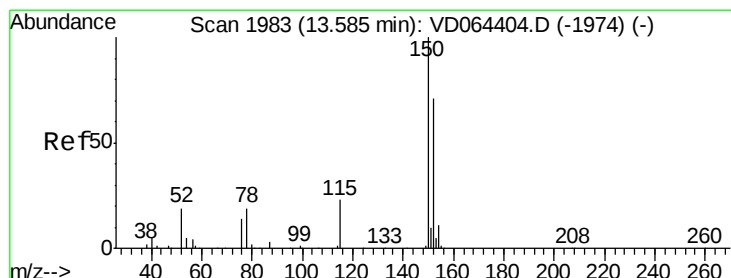
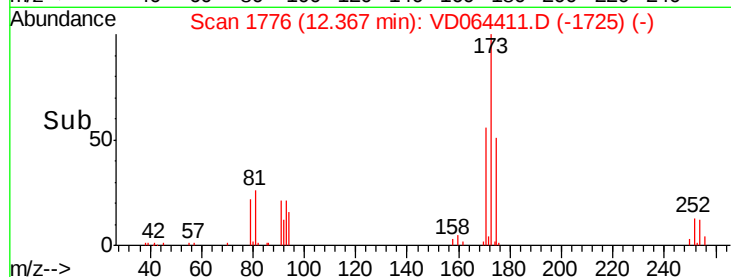
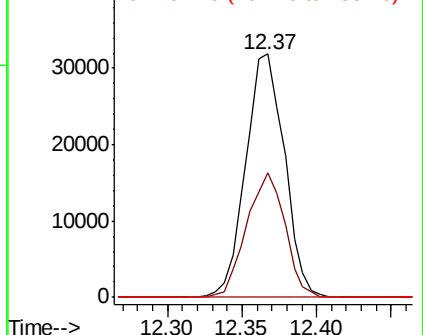
173 100

175 50.4 25.3 75.8

254 0.0 0.0 0.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

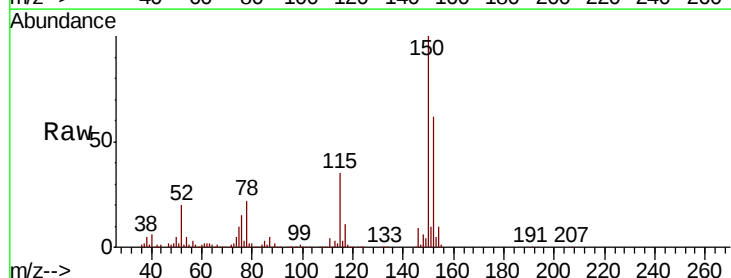
Tgt Ion:152 Resp: 317438

Ion Ratio Lower Upper

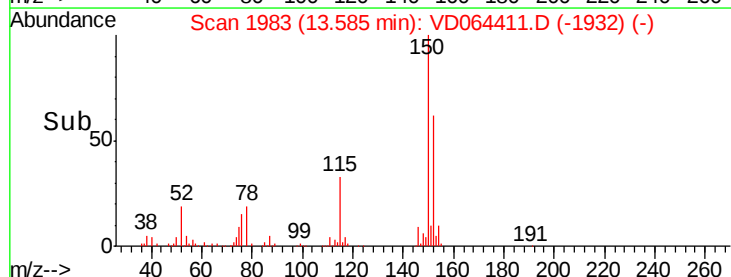
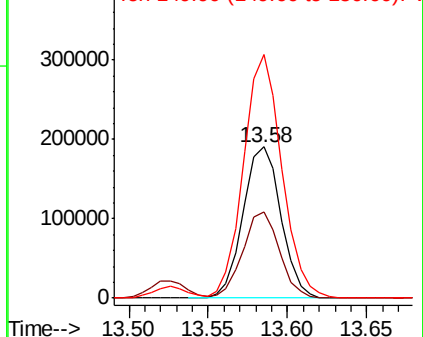
152 100

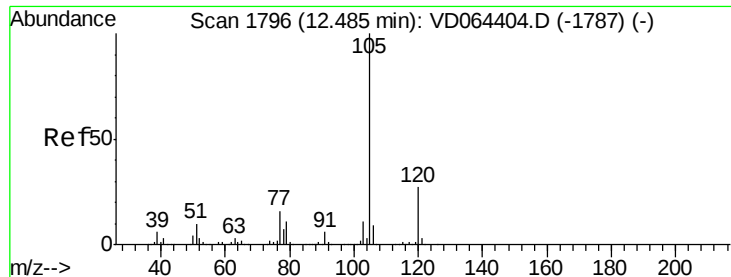
115 55.3 26.7 80.1

150 162.9 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: 21.552 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

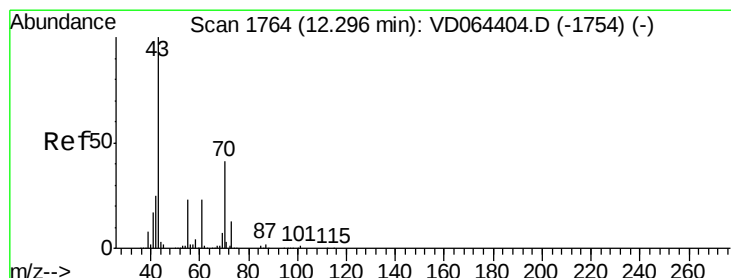
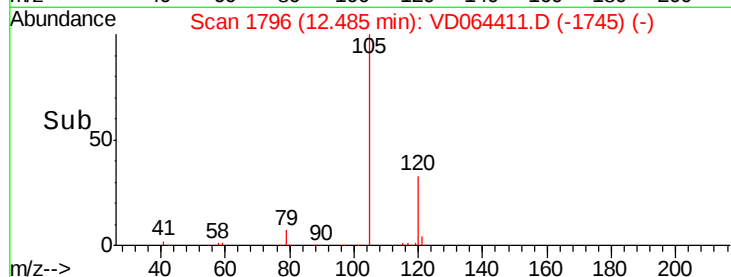
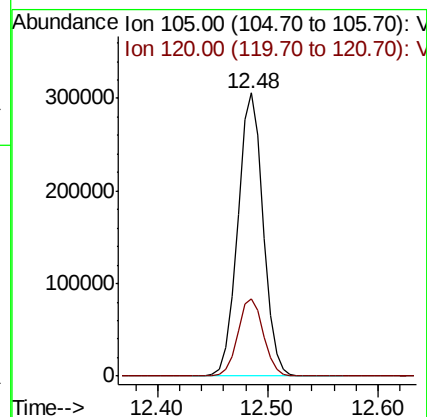
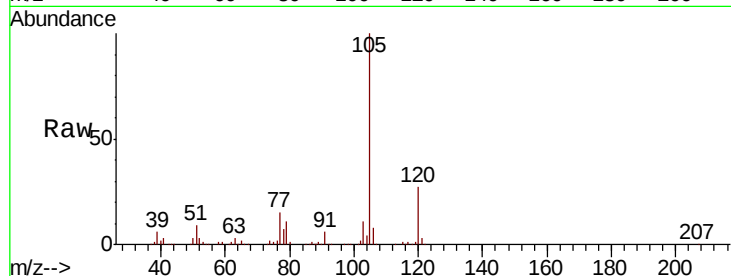
ClientSampleId :

Tot Ion:105 Resp: 492053

Ion Ratio Lower Upper

105 100

120 27.6 13.4 40.2



#74

N-ethyl acetate

Concen: 19.509 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Tgt Ion: 43 Resp: 101089

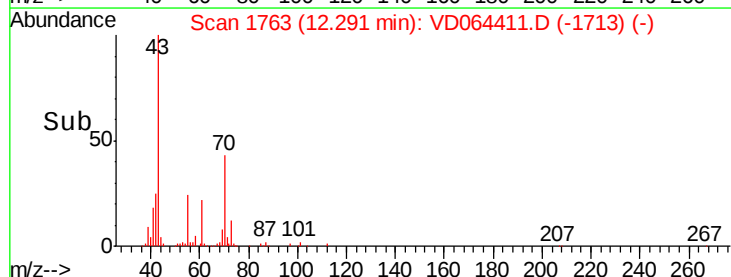
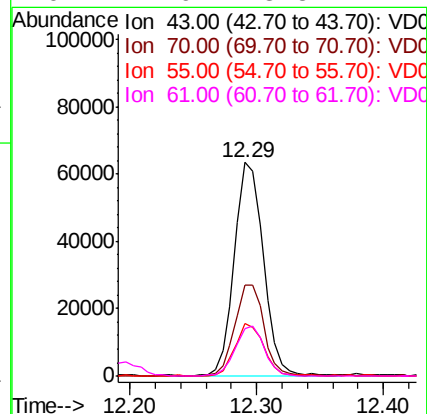
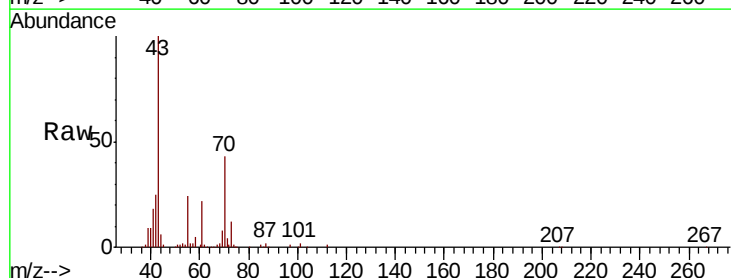
Ion Ratio Lower Upper

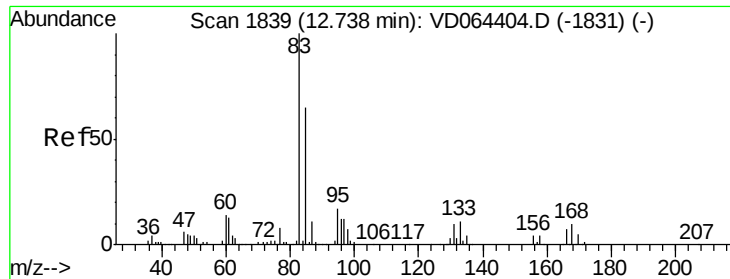
43 100

70 42.1 33.4 50.2

55 24.3 18.9 28.3

61 22.9 18.5 27.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.302 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampled :

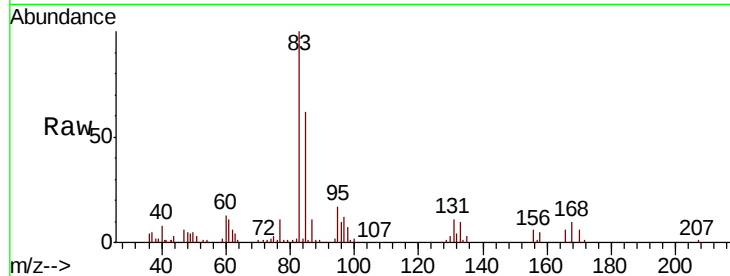
Tot Ion: 83 Resp: 72875

Ion Ratio Lower Upper

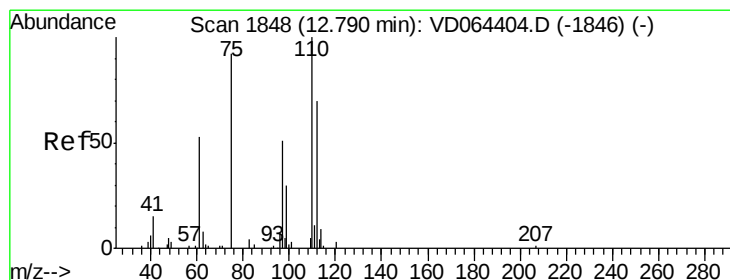
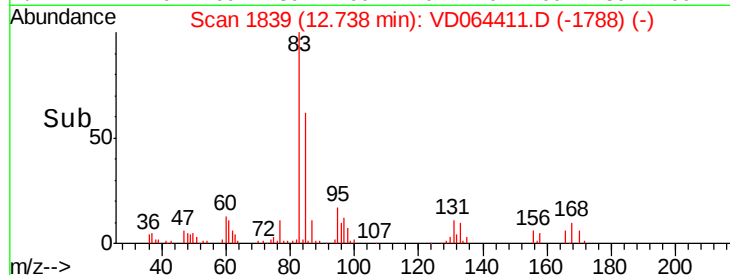
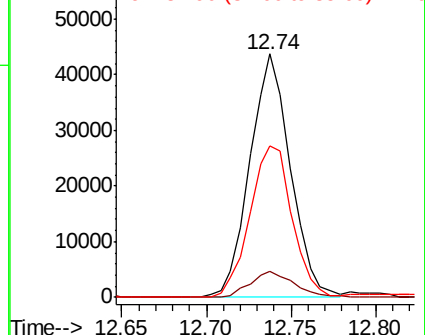
83 100

131 11.6 5.7 17.0

85 64.7 31.3 93.9



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



#76

1,2,3-Trichloropropane

Concen: 37.050 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD064411.D

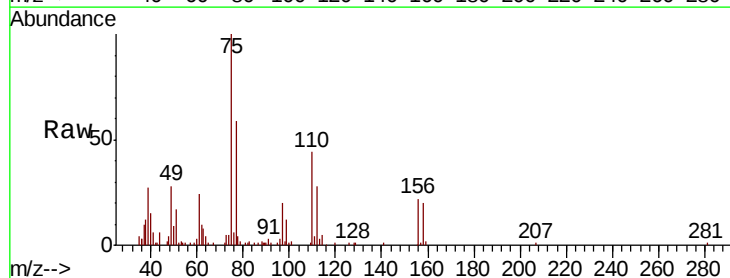
Acq: 04 Dec 2019 12:30

Tgt Ion: 75 Resp: 96720

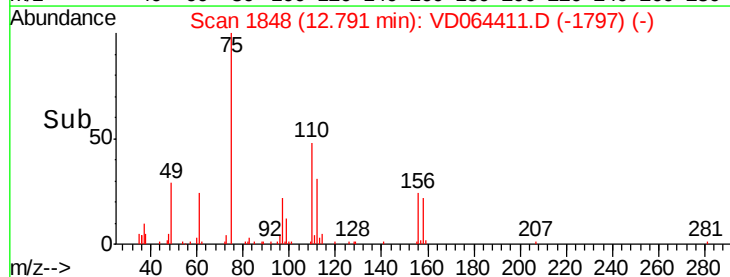
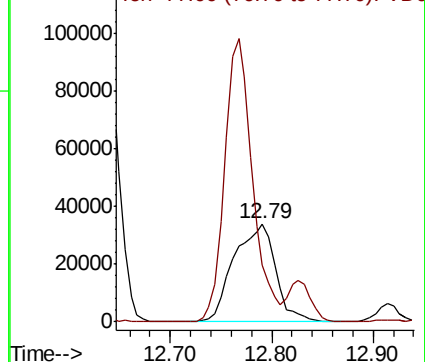
Ion Ratio Lower Upper

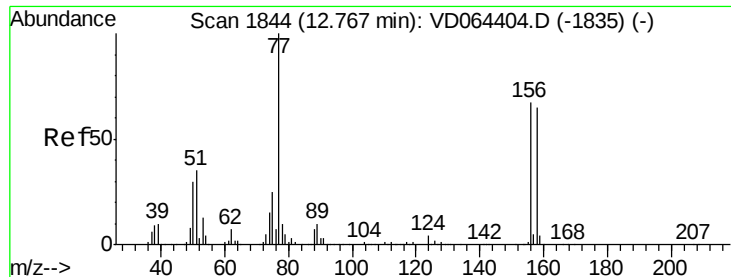
75 100

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: 21.409 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampled :

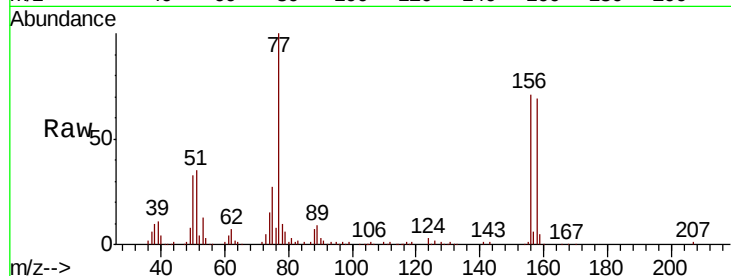
Tot Ion:156 Resp: 120700

Ion Ratio Lower Upper

156 100

77 155.0 80.0 240.2

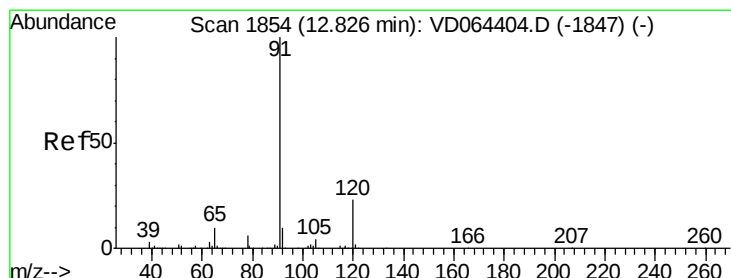
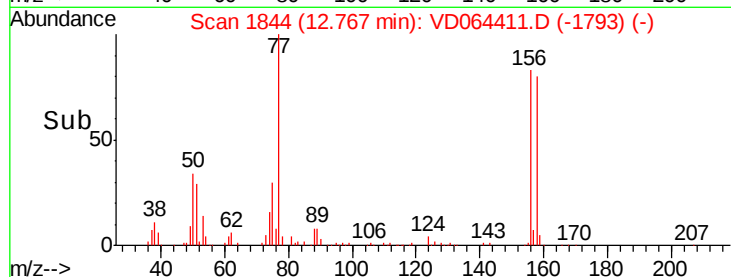
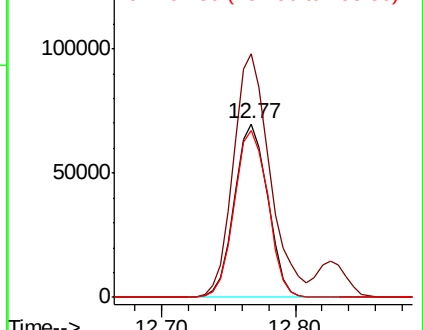
158 97.0 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.667 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064411.D

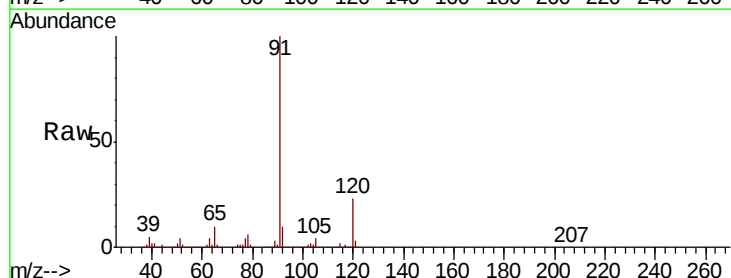
Acq: 04 Dec 2019 12:30

Tgt Ion: 91 Resp: 570745

Ion Ratio Lower Upper

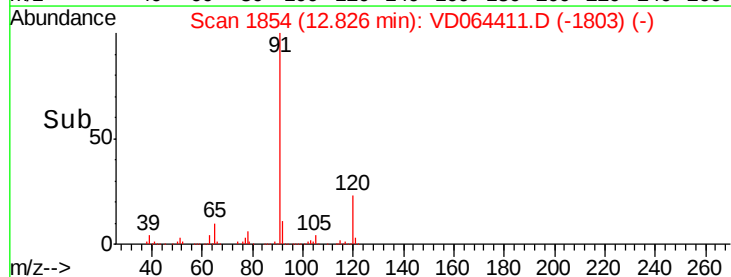
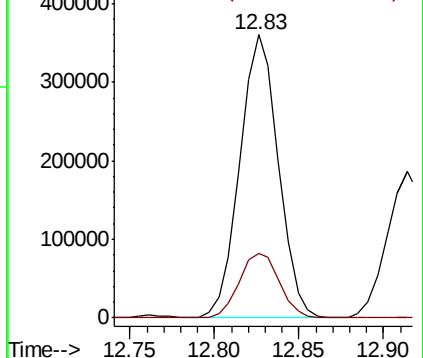
91 100

120 23.8 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: 21.287 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

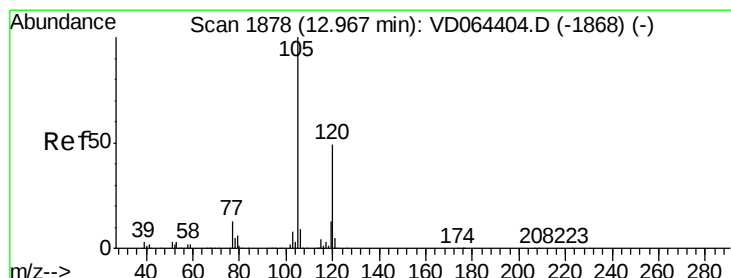
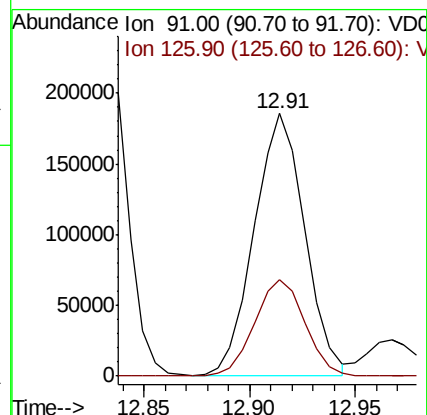
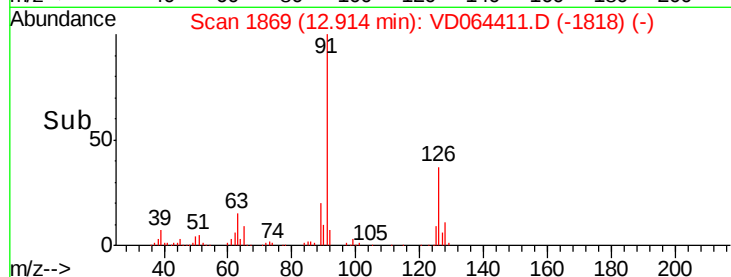
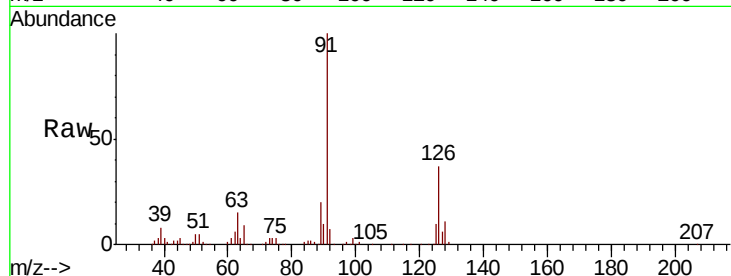
ClientSampleId :

Tot Ion: 91 Resp: 308541

Ion Ratio Lower Upper

91 100

126 36.7 18.0 54.0



#80

1,3,5-Trimethylbenzene

Concen: 21.563 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064411.D

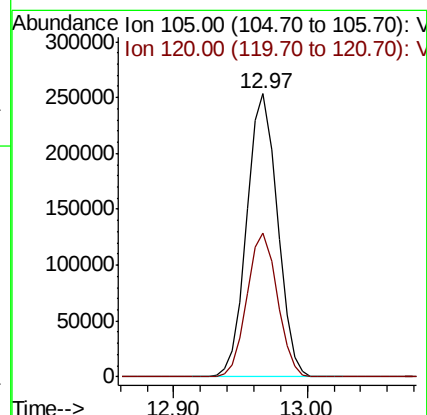
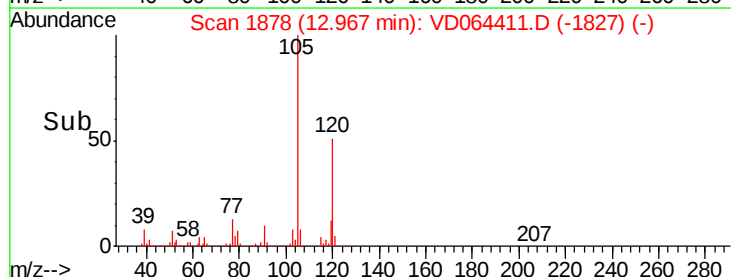
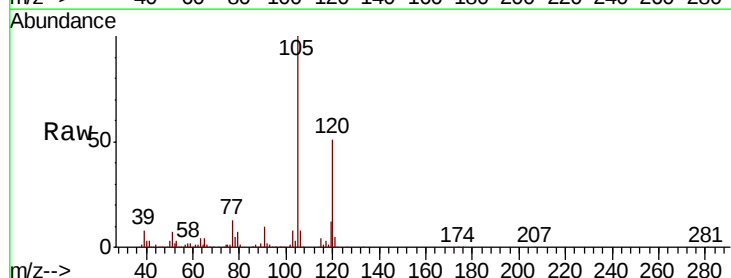
Acq: 04 Dec 2019 12:30

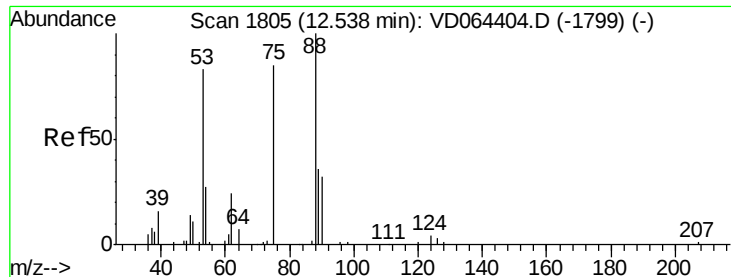
Tgt Ion: 105 Resp: 402304

Ion Ratio Lower Upper

105 100

120 50.3 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 20.693 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampleId :

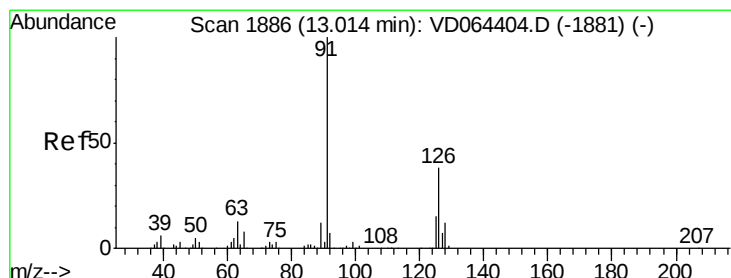
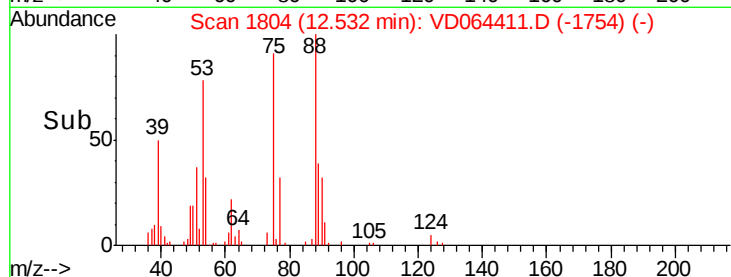
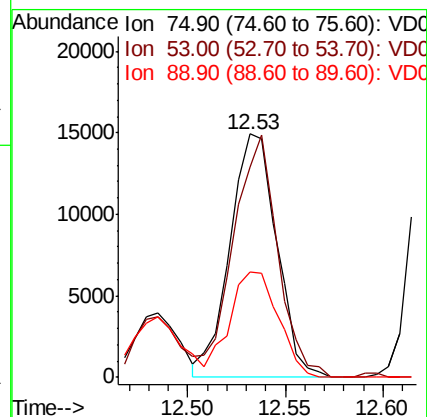
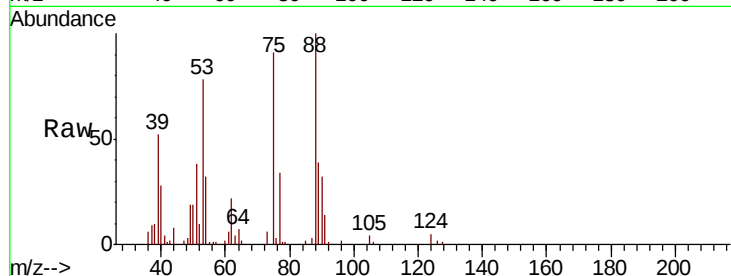
Tot Ion: 75 Resp: 24773

Ion Ratio Lower Upper

75 100

53 94.8 81.0 121.6

89 45.1 38.5 57.7



#82

4-Chlorotoluene

Concen: 21.086 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD064411.D

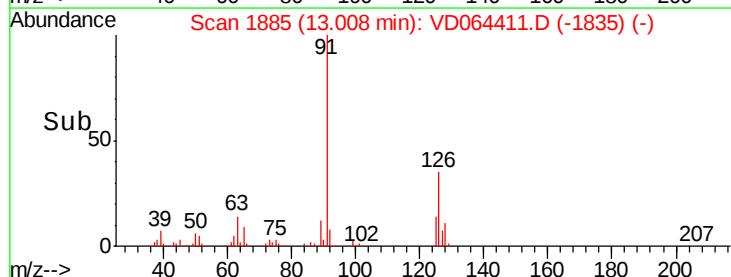
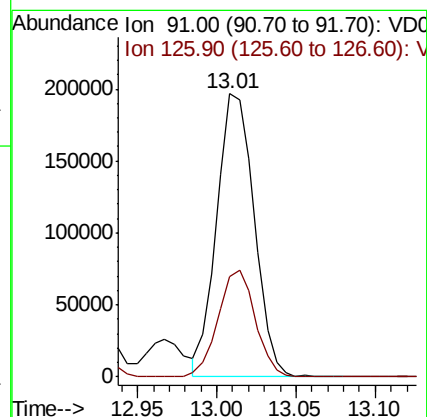
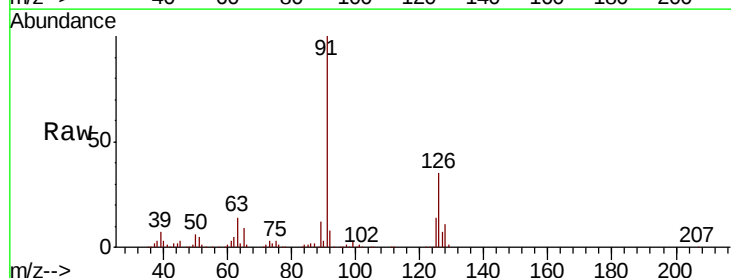
Acq: 04 Dec 2019 12:30

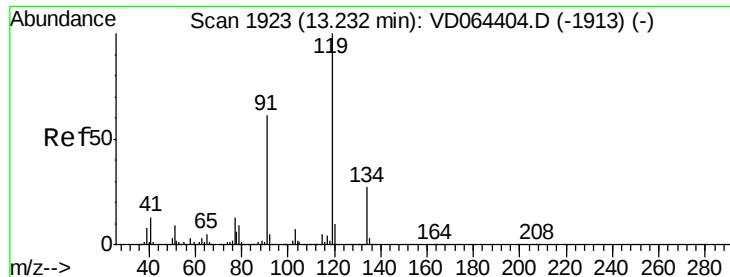
Tgt Ion: 91 Resp: 323600

Ion Ratio Lower Upper

91 100

126 37.3 18.2 54.6





#83

tert-Butylbenzene

Concen: 21.351 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampleId :

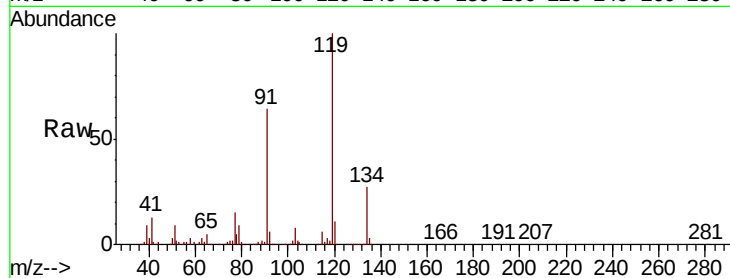
Tot Ion:119 Resp: 346318

Ion Ratio Lower Upper

119 100

91 64.8 31.2 93.6

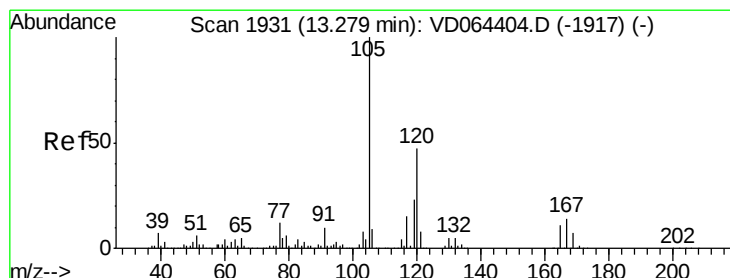
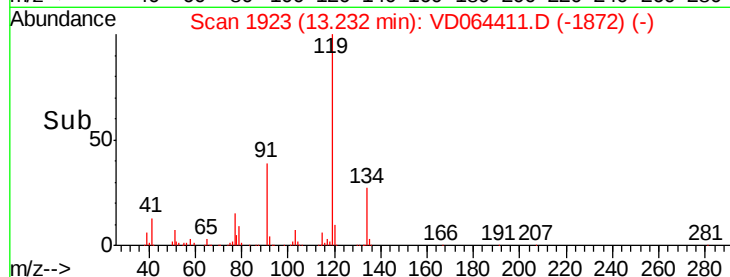
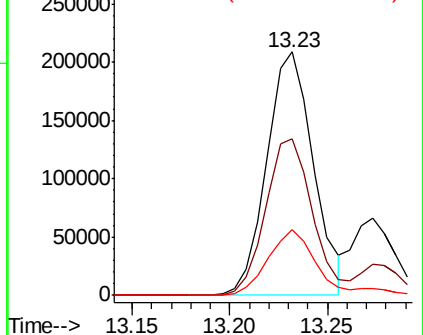
134 28.9 13.9 41.7



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: 20.994 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064411.D

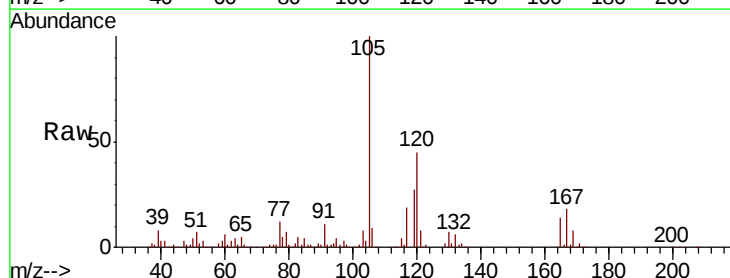
Acq: 04 Dec 2019 12:30

Tgt Ion:105 Resp: 393853

Ion Ratio Lower Upper

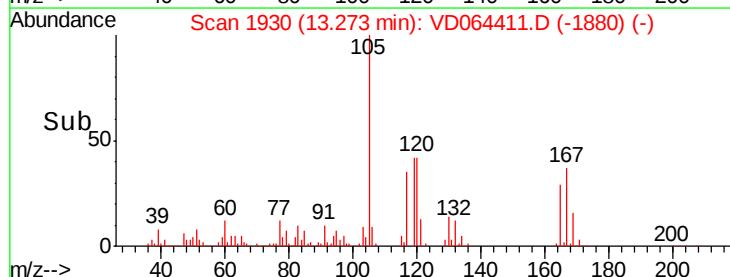
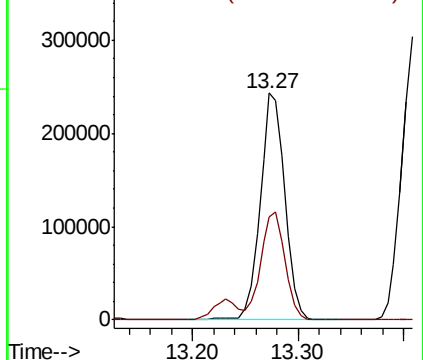
105 100

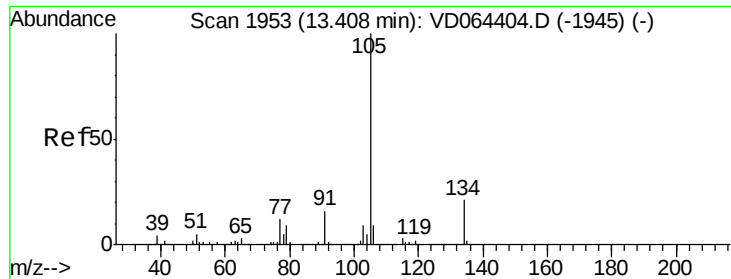
120 46.4 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.494 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

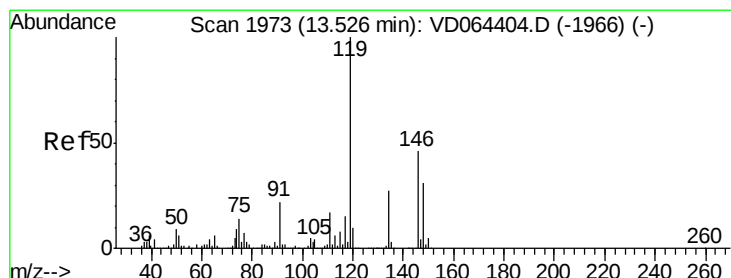
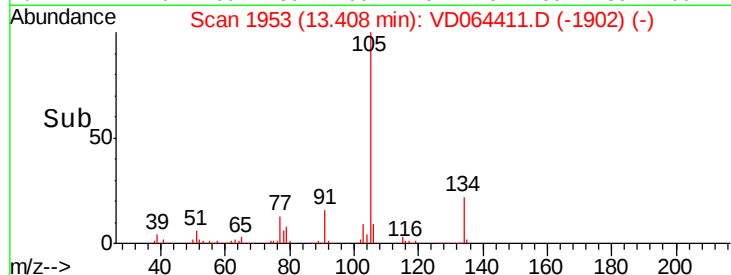
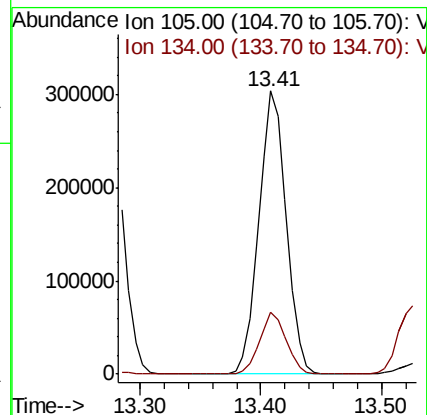
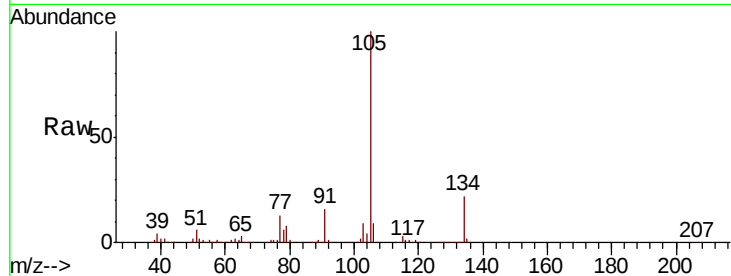
ClientSampleId :

Tot Ion:105 Resp: 478485

Ion Ratio Lower Upper

105 100

134 21.1 10.5 31.5



#86

p-Isopropyltoluene

Concen: 21.389 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

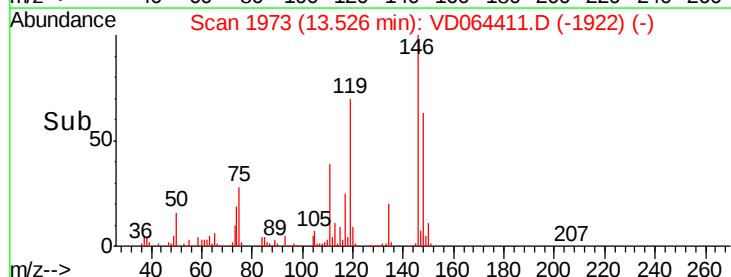
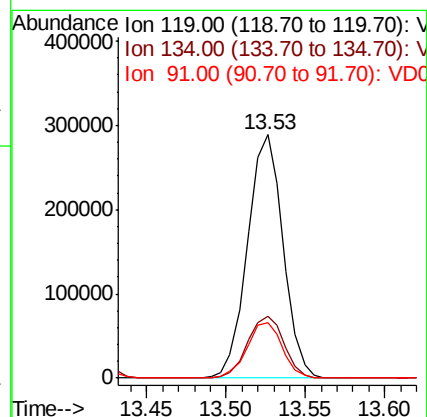
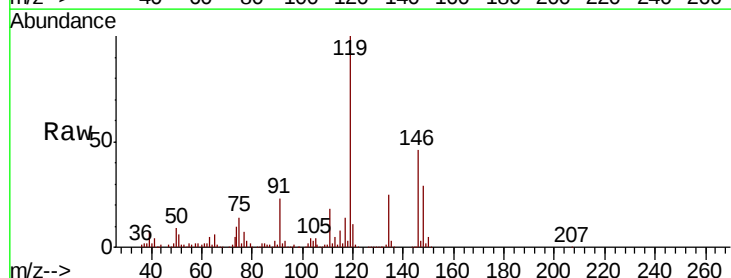
Tgt Ion:119 Resp: 449537

Ion Ratio Lower Upper

119 100

134 26.0 13.5 40.4

91 22.6 11.2 33.5





#87

1,3-Dichlorobenzene

Concen: 20.518 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

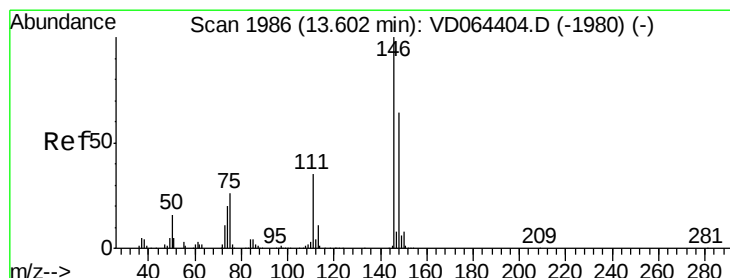
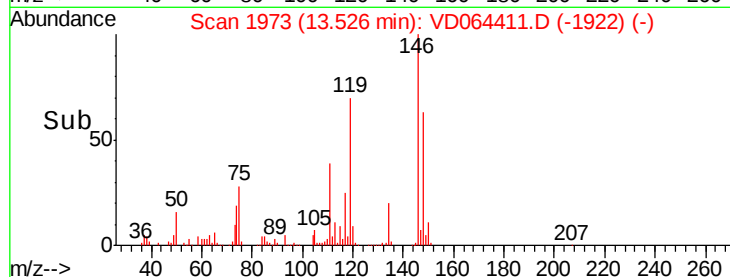
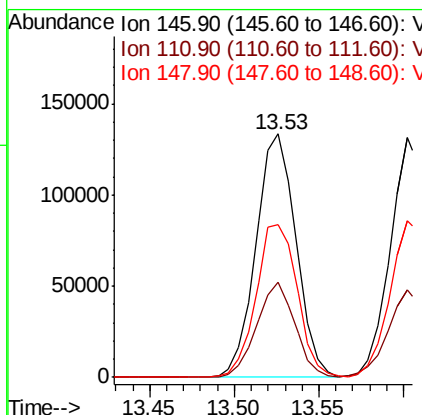
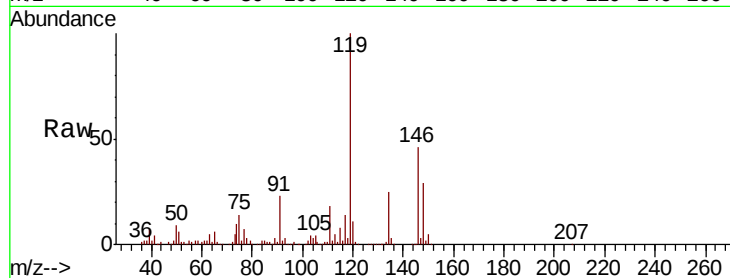
Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:146 Resp: 219551

Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.4
148	65.0	32.6	97.8



#88

1,4-Dichlorobenzene

Concen: 20.274 ug/l

RT: 13.60 min Scan# 1986

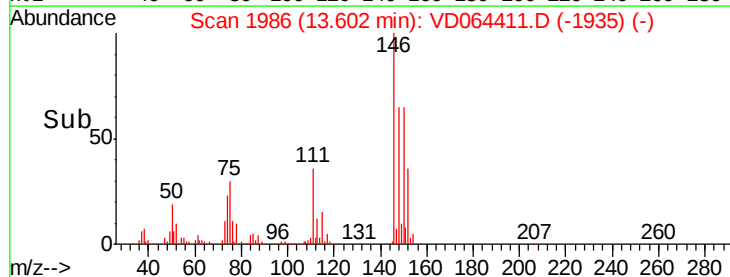
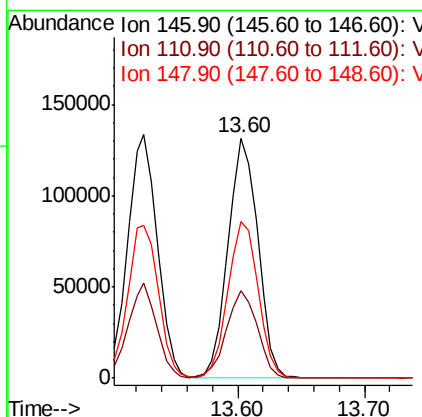
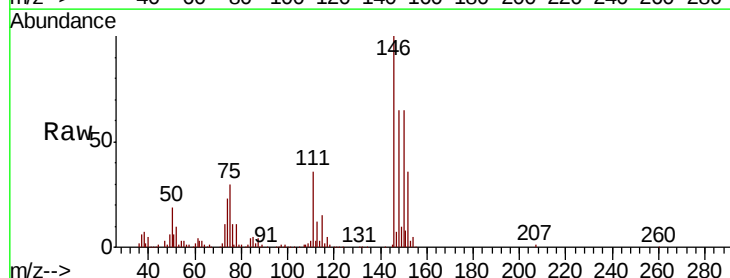
Delta R.T. 0.00 min

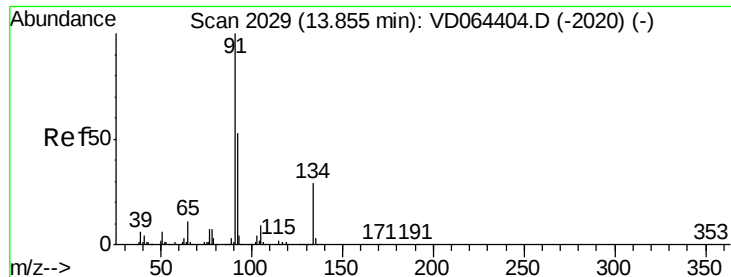
Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Tgt Ion:146 Resp: 214191

Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.2	54.6
148	66.1	31.8	95.4

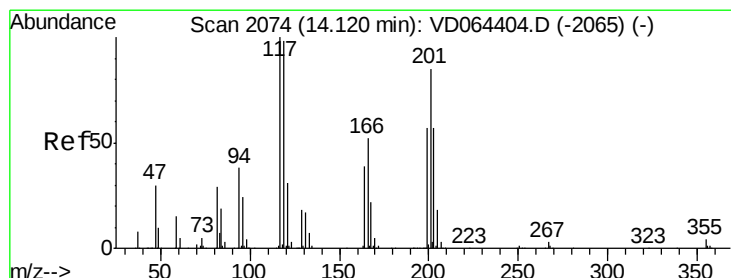
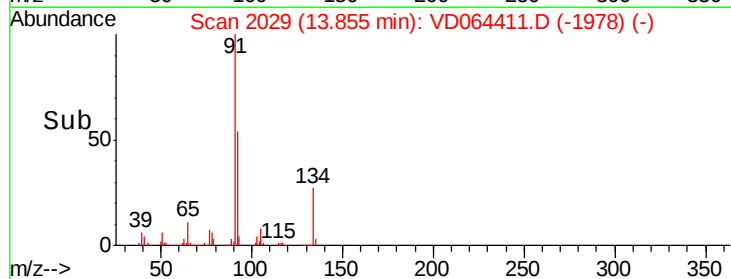
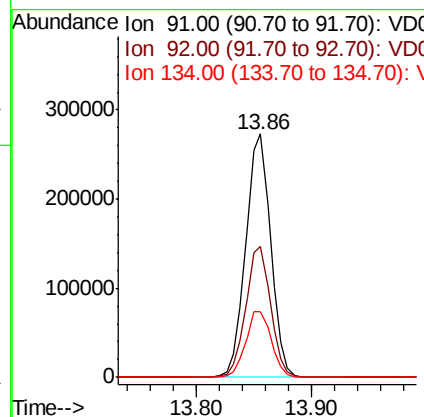
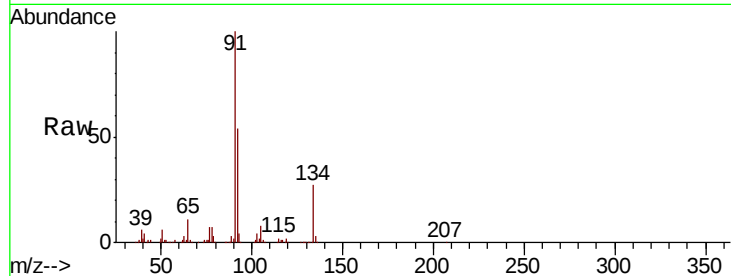




#89
n-Butylbenzene
Concen: 21.474 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

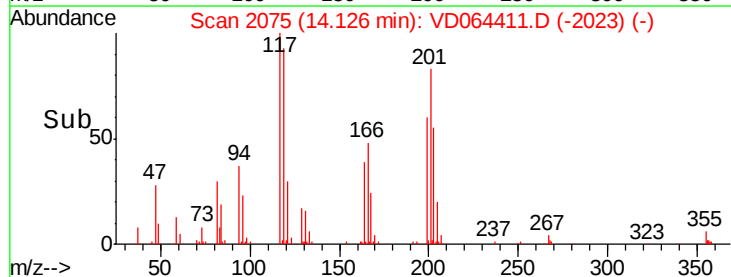
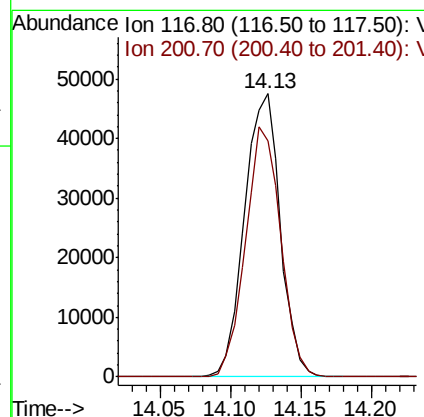
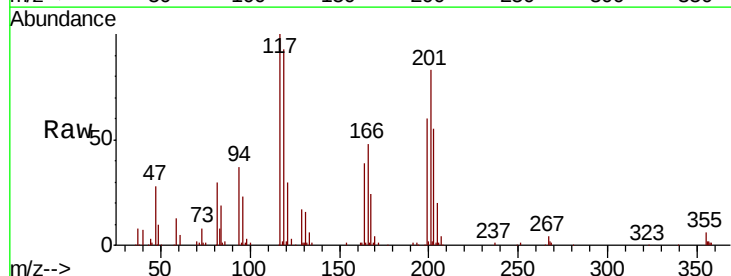
Instrument :
MSVOA_D
ClientSampleId :

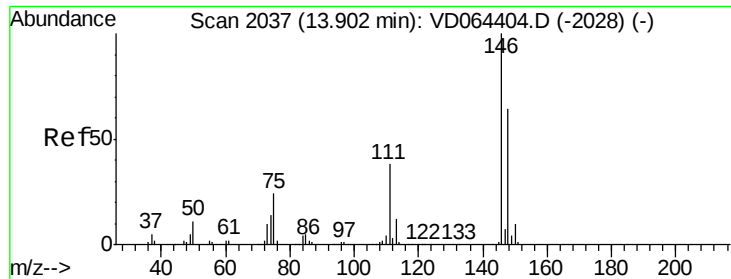
Tot Ion: 91 Resp: 409858
Ion Ratio Lower Upper
91 100
92 53.6 26.5 79.4
134 27.7 13.9 41.7



#90
Hexachloroethane
Concen: 21.432 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion: 117 Resp: 84249
Ion Ratio Lower Upper
117 100
201 87.2 44.3 132.8





#91

1,2-Dichlorobenzene

Concen: 20.493 ug/l

RT: 13.90 min Scan# 2036

Delta R.T. -0.01 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

Instrument :

MSVOA_D

ClientSampled :

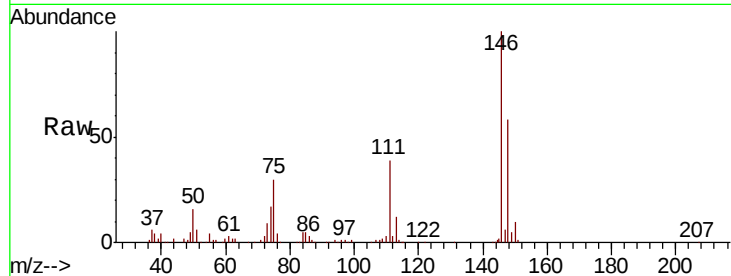
Tot Ion:146 Resp: 187412

Ion Ratio Lower Upper

146 100

111 38.7 19.1 57.3

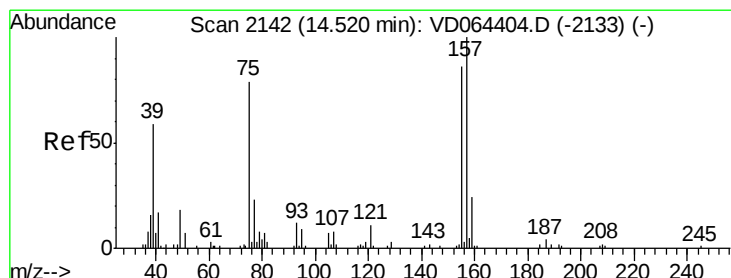
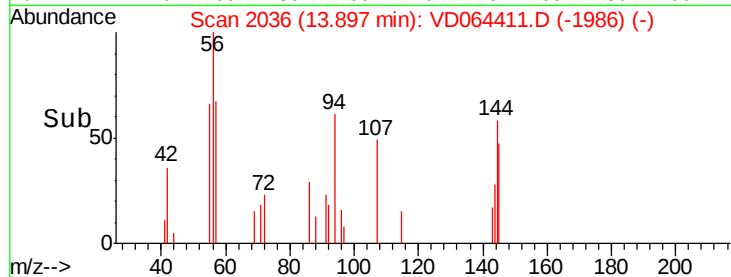
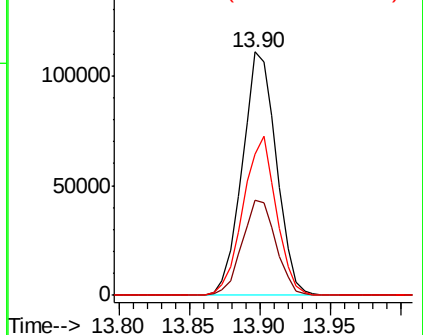
148 63.6 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.734 ug/l

RT: 14.52 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VD064411.D

Acq: 04 Dec 2019 12:30

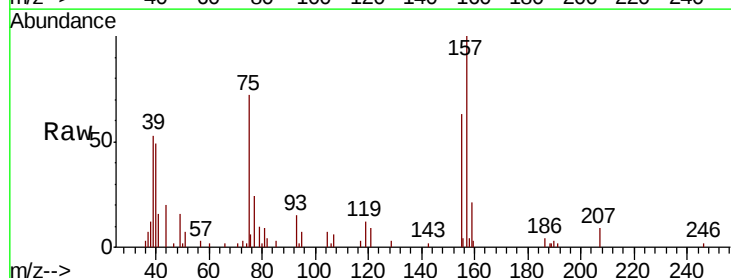
Tgt Ion: 75 Resp: 12114

Ion Ratio Lower Upper

75 100

155 92.6 51.9 155.7

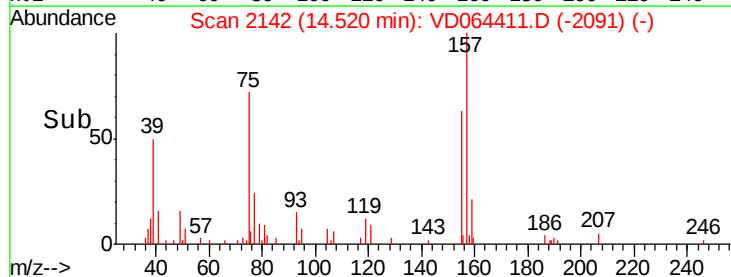
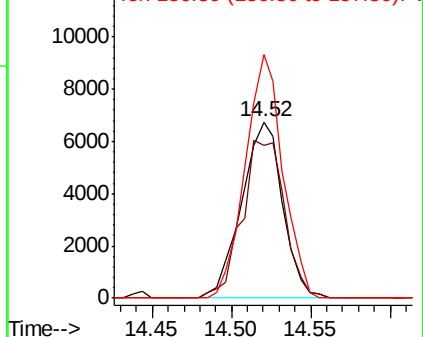
157 126.8 63.2 189.8

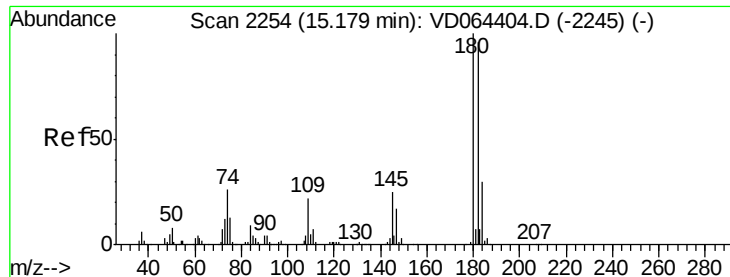


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

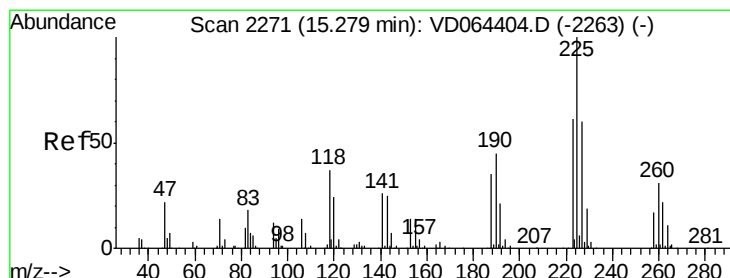
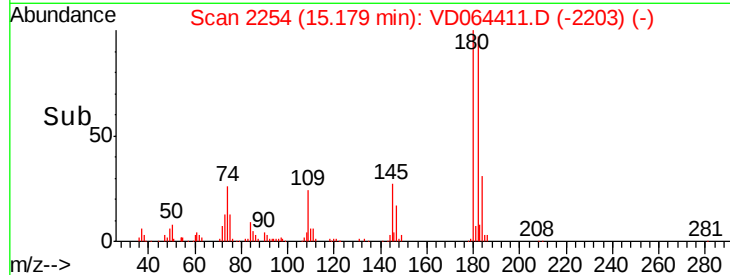
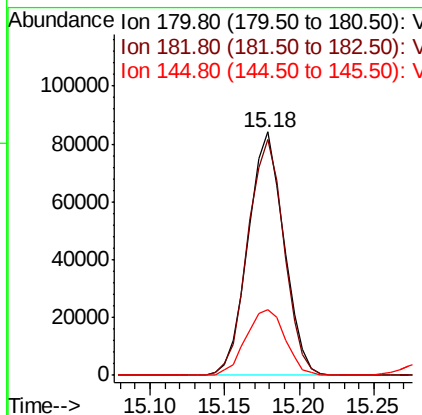
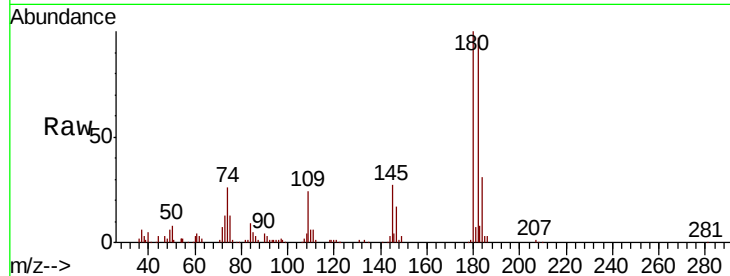




#93
 1,2,4-Trichlorobenzene
 Concen: 19.990 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

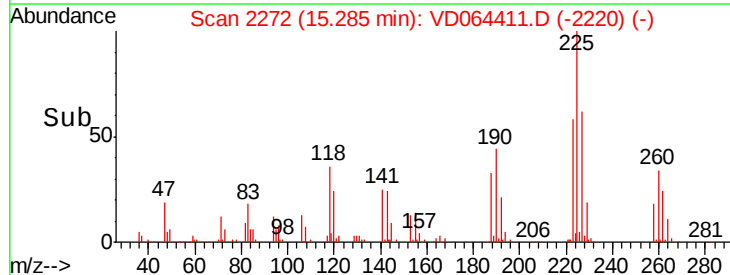
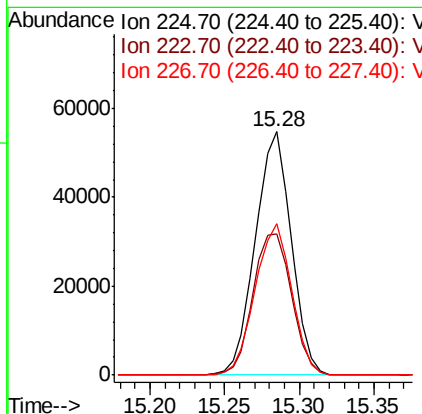
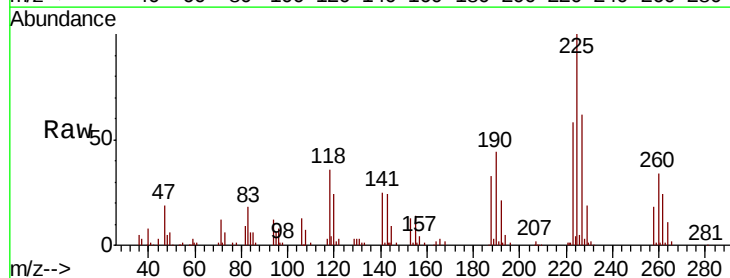
Instrument :
 MSVOA_D
 ClientSampleId :

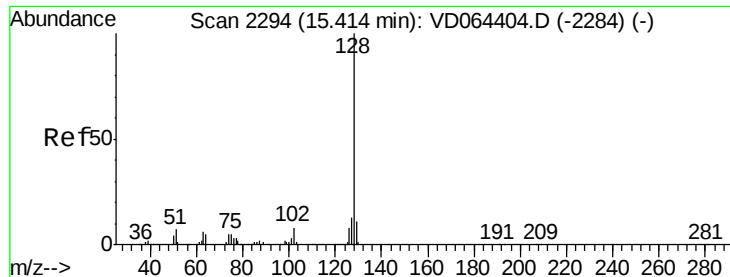
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.7	47.4	142.3
145	29.4	14.0	41.9



#94
 Hexachlorobutadiene
 Concen: 21.129 ug/l
 RT: 15.28 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: VD064411.D
 Acq: 04 Dec 2019 12:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.1	93.3
227	63.2	31.8	95.4

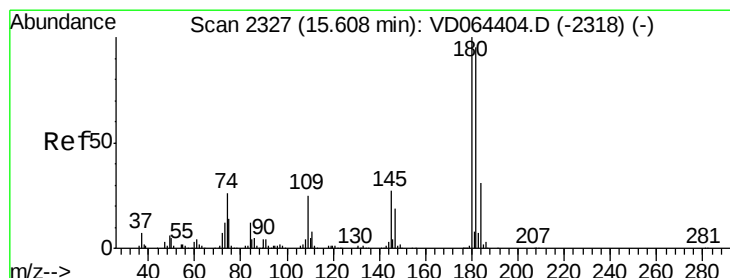
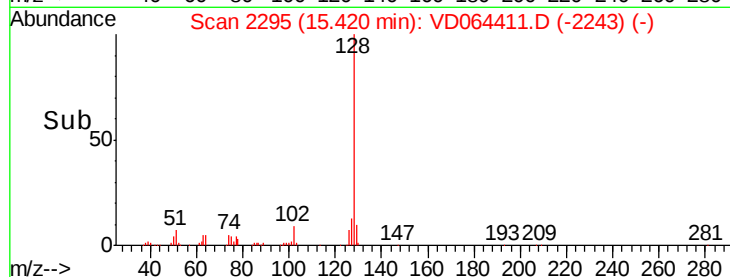
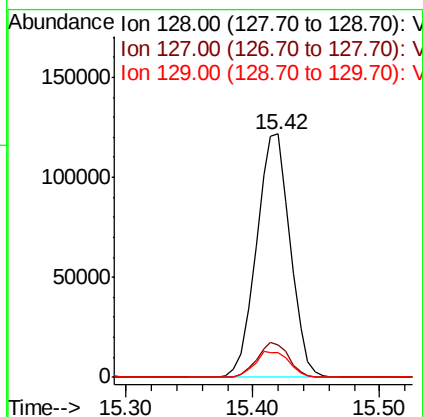
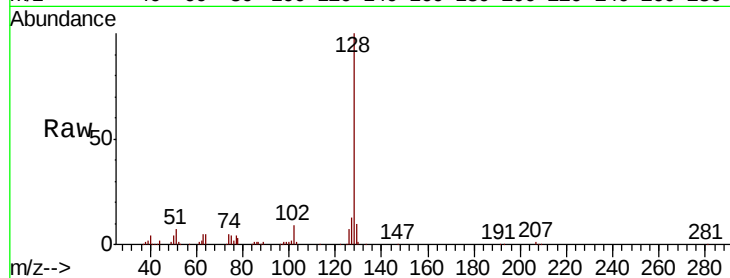




#95
Naphthalene
Concen: 19.213 ug/l
RT: 15.42 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 224570
Ion Ratio Lower Upper
128 100
127 13.8 10.5 15.7
129 10.9 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 20.300 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064411.D
Acq: 04 Dec 2019 12:30

Tgt Ion:180 Resp: 121361
Ion Ratio Lower Upper
180 100
182 95.7 47.6 142.9
145 29.0 14.6 43.8

