

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012819\
 Data File : VD060791.D
 Acq On : 28 Jan 2019 15:13
 Operator : JC/SY
 Sample : VSTDIC005
 Misc : 5.00u/5ml/MSVOA D/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/29/2019 4:55:26 PM

Quant Time: Jan 29 13:22:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 12:47:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.81	168	580756	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.99	114	799735	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.16	117	671848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.32	152	321684	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.22	65	48799	5.48	ug/l	0.00
Spiked Amount			Recovery	=	10.96%	
35) Dibromofluoromethane	6.69	113	42123	5.49	ug/l	0.02
Spiked Amount			Recovery	=	10.98%	
50) Toluene-d8	10.18	98	105176	5.87	ug/l	0.00
Spiked Amount			Recovery	=	11.74%	
62) 4-Bromofluorobenzene	13.35	95	51331	5.70	ug/l	0.00
Spiked Amount			Recovery	=	11.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	38933	5.514	ug/l	99
3) Chloromethane	1.78	50	25011	5.916	ug/l #	88
4) Vinyl Chloride	1.86	62	22659	5.049	ug/l	99
5) Bromomethane	2.15	94	8651	5.741	ug/l #	70
6) Chloroethane	2.26	64	9825	6.083	ug/l #	87
7) Trichlorofluoromethane	2.50	101	49069	5.555	ug/l	91
8) Diethyl Ether	2.82	74	6601	5.071	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.08	101	24922	5.567	ug/l	94
10) Methyl Iodide	3.23	142	22422	4.784	ug/l #	82
11) Tert butyl alcohol	3.94	59	9924	23.324	ug/l #	69
12) 1,1-Dichloroethene	3.06	96	17298	5.654	ug/l	87
13) Acrolein	2.97	56	4923	28.499	ug/l	93
14) Allyl chloride	3.52	41	43179	6.065	ug/l #	89
15) Acrylonitrile	4.05	53	23923	25.093	ug/l	92
16) Acetone	3.13	43	40985	31.994	ug/l	94
17) Carbon Disulfide	3.30	76	59760	5.515	ug/l	98
18) Methyl Acetate	3.54	43	15046	5.902	ug/l	93
19) Methyl tert-butyl Ether	4.10	73	68765	4.924	ug/l	97
20) Methylene Chloride	3.69	84	44194	6.742	ug/l	96
21) trans-1,2-Dichloroethene	4.07	96	27660	5.129	ug/l	93
22) Diisopropyl ether	4.90	45	97578	5.319	ug/l #	91
23) Vinyl Acetate	4.84	43	256291	24.260	ug/l	99
24) 1,1-Dichloroethane	4.78	63	63841	5.316	ug/l #	96
25) 2-Butanone	5.85	43	39569	24.040	ug/l	95
26) 2,2-Dichloropropane	5.80	77	74710	5.904	ug/l	96
27) cis-1,2-Dichloroethene	5.80	96	36976	6.020	ug/l	85
28) Bromochloromethane	6.22	49	25084	5.354	ug/l	94
29) Tetrahydrofuran	6.24	42	18383	23.257	ug/l	98
30) Chloroform	6.42	83	73511	5.179	ug/l	86
31) Cyclohexane	6.72	56	45278	5.541	ug/l	98
32) 1,1,1-Trichloroethane	6.64	97	75352	5.512	ug/l	95
36) 1,1-Dichloropropene	6.92	75	55259	5.787	ug/l	86
37) Ethyl Acetate	5.95	43	24348	5.712	ug/l #	90
38) Carbon Tetrachloride	6.88	117	64624	5.397	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	8.64	83	43381	5.425	ug/l	96
40) Benzene	7.23	78	109973	5.835	ug/l	93
41) Methacrylonitrile	6.22	41	14411m	5.142	ug/l	
42) 1,2-Dichloroethane	7.35	62	55500	5.069	ug/l	97
43) Isopropyl Acetate	9.01	43	28187	5.070	ug/l	93
44) Trichloroethene	8.30	130	35135	5.500	ug/l	85
45) 1,2-Dichloropropane	8.71	63	25767	5.051	ug/l #	87
46) Dibromomethane	8.83	93	19388	4.896	ug/l	93
47) Bromodichloromethane	9.15	83	55702	5.211	ug/l #	97
48) Methyl methacrylate	8.89	41	21299	5.556	ug/l #	85
49) 1,4-Dioxane	8.85	88	2170	73.008	ug/l	94
51) 4-Methyl-2-Pentanone	10.09	43	96353	26.763	ug/l	99
52) Toluene	10.29	92	71415	5.974	ug/l	98
53) t-1,3-Dichloropropene	10.70	75	49100	5.222	ug/l #	88
54) cis-1,3-Dichloropropene	9.82	75	50291	5.216	ug/l	93
55) 1,1,2-Trichloroethane	10.97	97	20849	5.115	ug/l	98
56) Ethyl methacrylate	10.82	69	26158	5.298	ug/l	90
57) 1,3-Dichloropropane	11.19	76	35488	5.095	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.63	63	77331	29.851	ug/l	92
59) 2-Hexanone	11.33	43	68872	25.442	ug/l	100
60) Dibromochloromethane	11.47	129	36491	4.980	ug/l	88
61) 1,2-Dibromoethane	11.59	107	24721	5.150	ug/l	96
64) Tetrachloroethene	11.04	164	30484	4.944	ug/l	98
65) Chlorobenzene	12.19	112	85685	5.581	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.31	131	35300	5.352	ug/l	93
67) Ethyl Benzene	12.32	91	163461	5.921	ug/l	99
68) m/p-Xylenes	12.46	106	107162	11.931	ug/l	100
69) o-Xylene	12.84	106	50437	5.673	ug/l	95
70) Styrene	12.87	104	86324	5.791	ug/l	94
71) Bromoform	13.03	173	23295	4.687	ug/l	93
73) Isopropylbenzene	13.21	105	155936	6.080	ug/l	98
74) N-amyl acetate	13.07	43	41027	5.203	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	13.50	83	24994	5.352	ug/l	94
76) 1,2,3-Trichloropropane	13.53	75	30428	5.158	ug/l	97
77) Bromobenzene	13.47	156	37327	5.662	ug/l	87
78) n-propylbenzene	13.57	91	181210	5.628	ug/l	99
79) 2-Chlorotoluene	13.64	91	115186	5.865	ug/l	98
80) 1,3,5-Trimethylbenzene	14.04	105	129779	5.878	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.27	75	7327	4.764	ug/l #	88
82) 4-Chlorotoluene	13.75	91	120865	5.538	ug/l	96
83) tert-Butylbenzene	13.99	119	138003	5.974	ug/l	93
84) 1,2,4-Trimethylbenzene	14.04	105	129779	5.878	ug/l	96
85) sec-Butylbenzene	14.17	105	157349	5.984	ug/l	93
86) p-Isopropyltoluene	14.29	119	116751	5.469	ug/l	98
87) 1,3-Dichlorobenzene	14.26	146	70276	5.959	ug/l	94
88) 1,4-Dichlorobenzene	14.34	146	63249	5.520	ug/l	96
89) n-Butylbenzene	14.60	91	131179	5.889	ug/l	97
90) Hexachloroethane	14.81	117	35900	5.651	ug/l	91
91) 1,2-Dichlorobenzene	14.61	146	58193	5.945	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.18	75	5274	4.754	ug/l	82

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MSVOA_D
ClientSampleId :
VSTDICC005

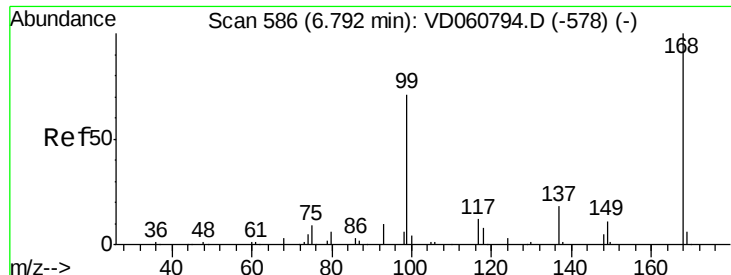
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.75	180	47058	5.552	ug/l	95
94) Hexachlorobutadiene	15.84	225	35785	5.627	ug/l	97
95) Naphthalene	15.93	128	67050	5.149	ug/l	99
96) 1,2,3-Trichlorobenzene	16.08	180	39968	5.423	ug/l	87

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.81 min Scan# 587

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 580756

Ion Ratio Lower Upper

168 100

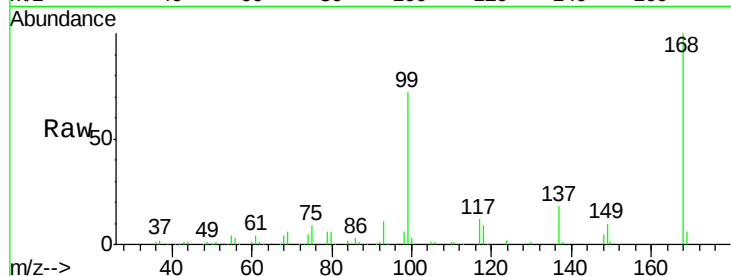
99 72.2 59.2 88.8

Manual Integrations

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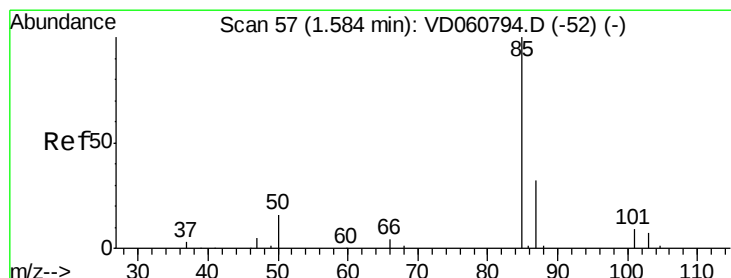
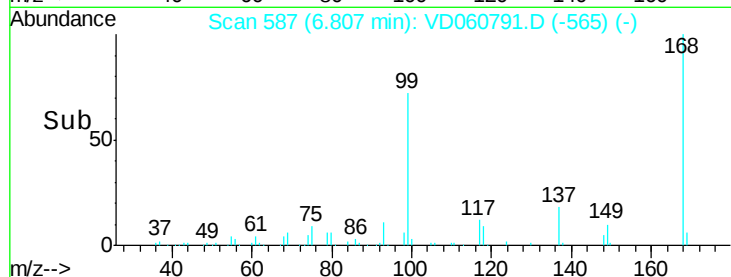
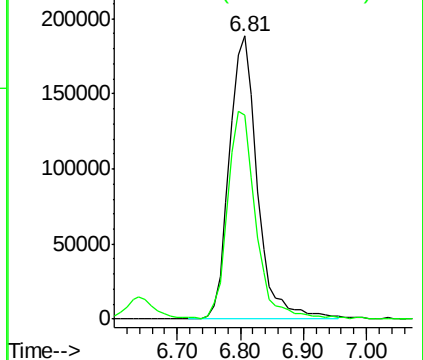
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 5.514 ug/l

RT: 1.60 min Scan# 58

Delta R.T. 0.02 min

Lab File: VD060791.D

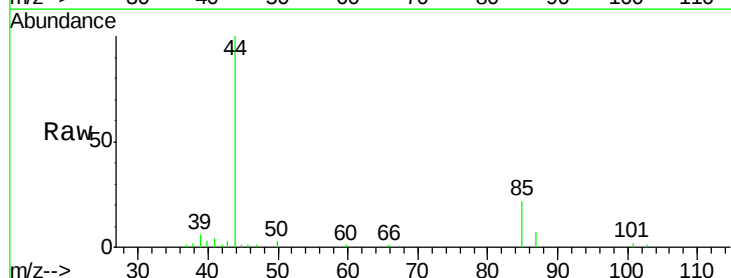
Acq: 28 Jan 2019 15:13

Tgt Ion: 85 Resp: 38933

Ion Ratio Lower Upper

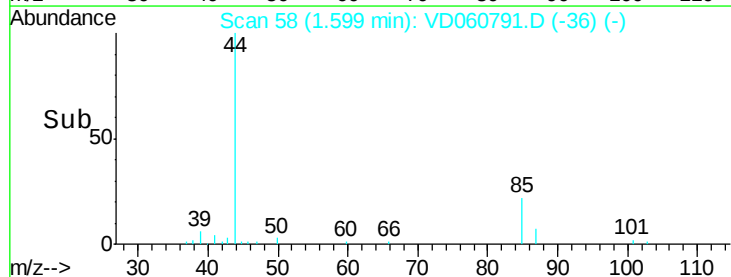
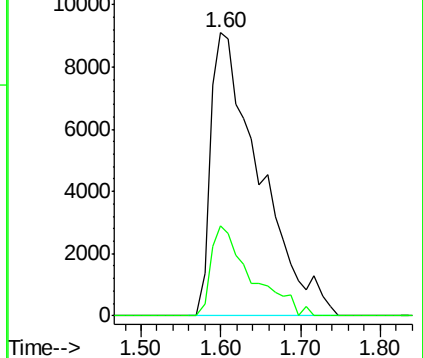
85 100

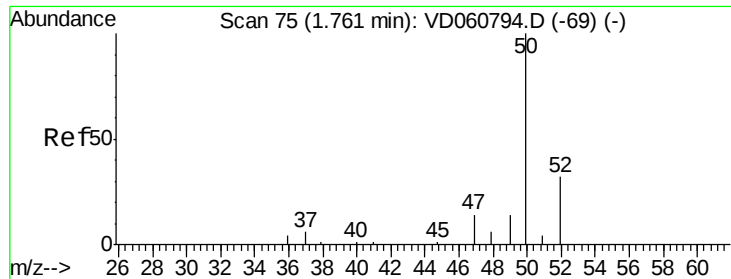
87 31.9 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 5.916 ug/l

RT: 1.78 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 25011

Ion Ratio Lower Upper

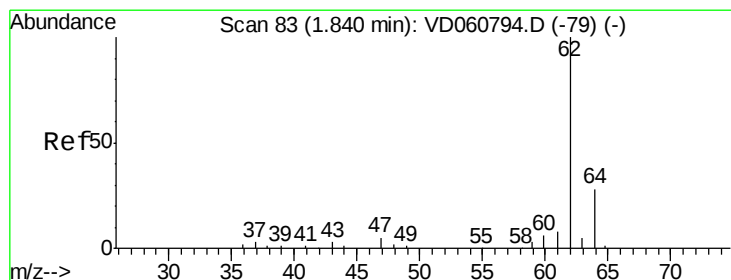
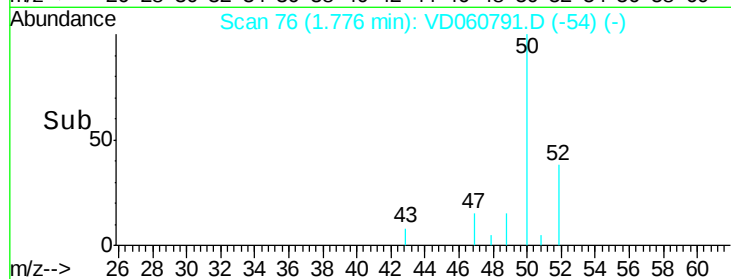
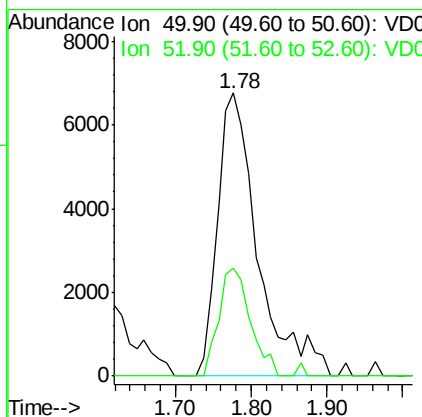
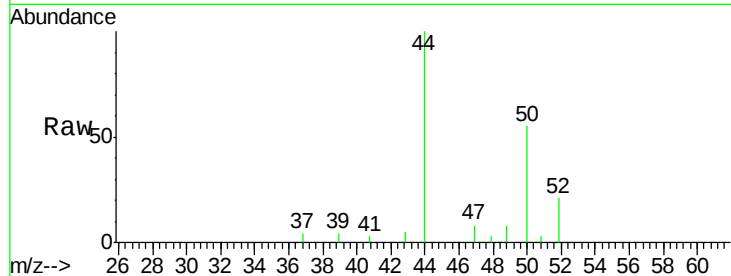
50 100

52 38.0 25.2 37.8#

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#4

Vinyl Chloride

Concen: 5.049 ug/l

RT: 1.86 min Scan# 84

Delta R.T. 0.02 min

Lab File: VD060791.D

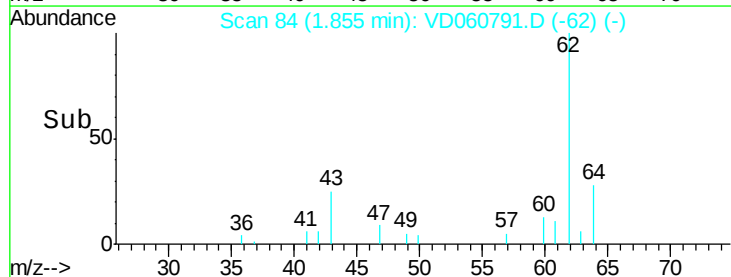
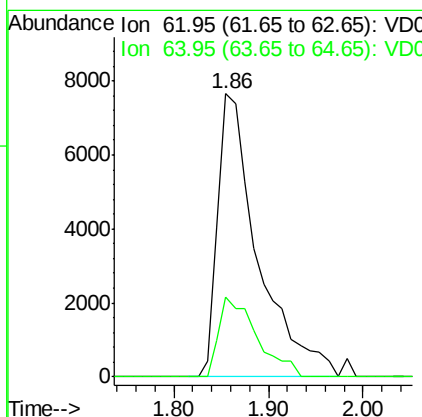
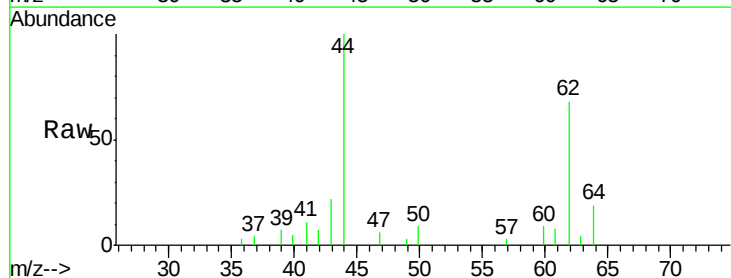
Acq: 28 Jan 2019 15:13

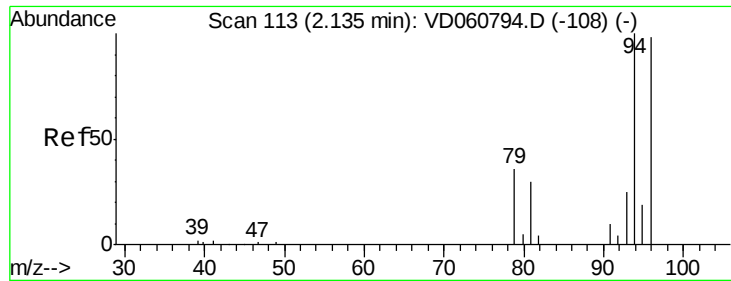
Tgt Ion: 62 Resp: 22659

Ion Ratio Lower Upper

62 100

64 28.3 22.1 33.1





#5

Bromomethane

Concen: 5.741 ug/l

RT: 2.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 8651

Ion Ratio Lower Upper

94 100

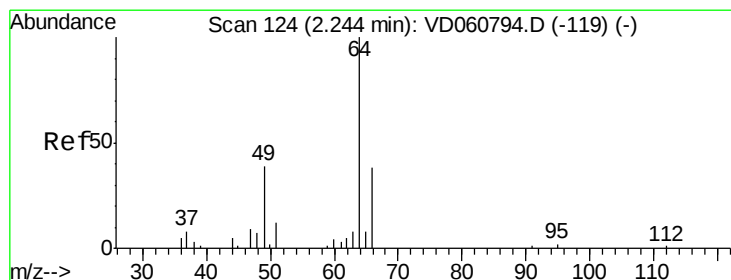
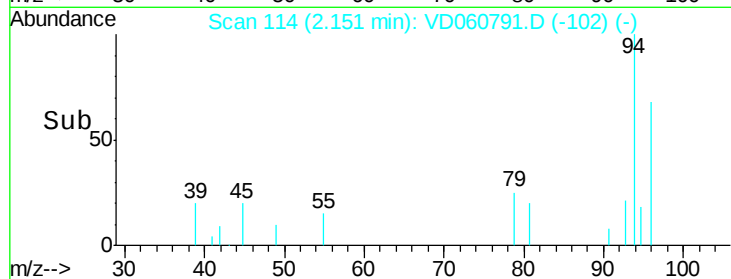
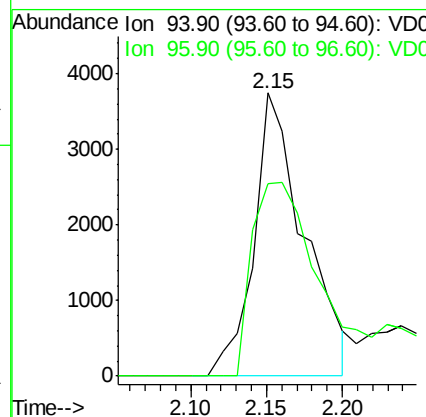
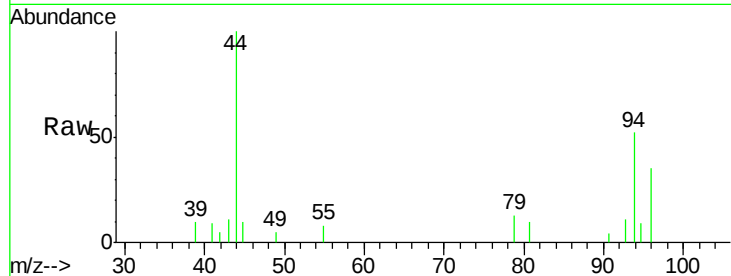
96 68.1 78.0 117.0#

Manual Integrations

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#6

Chloroethane

Concen: 6.083 ug/l

RT: 2.26 min Scan# 125

Delta R.T. 0.02 min

Lab File: VD060791.D

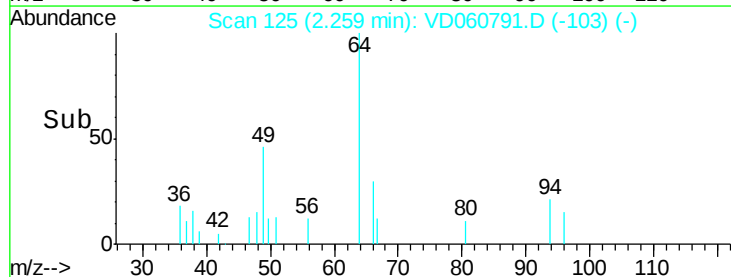
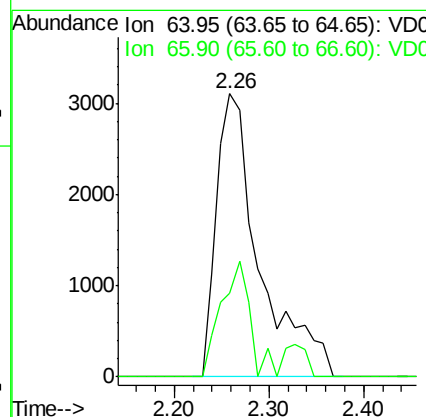
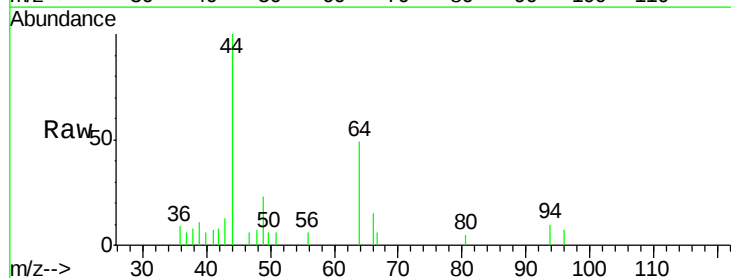
Acq: 28 Jan 2019 15:13

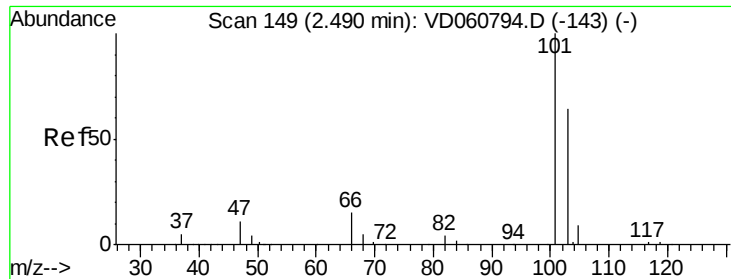
Tgt Ion: 64 Resp: 9825

Ion Ratio Lower Upper

64 100

66 29.7 30.2 45.4#





#7

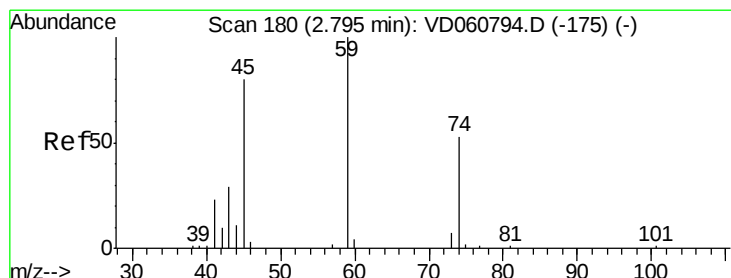
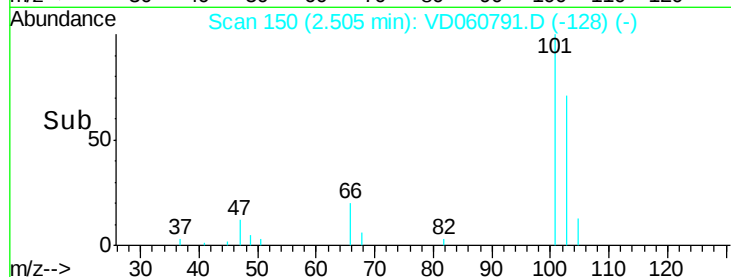
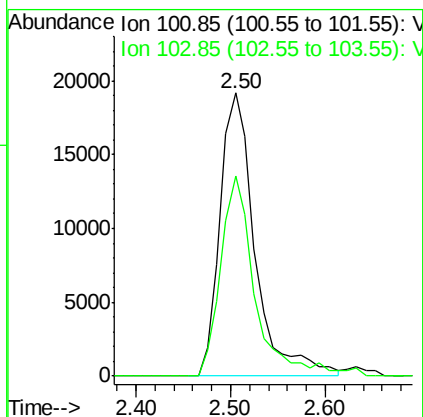
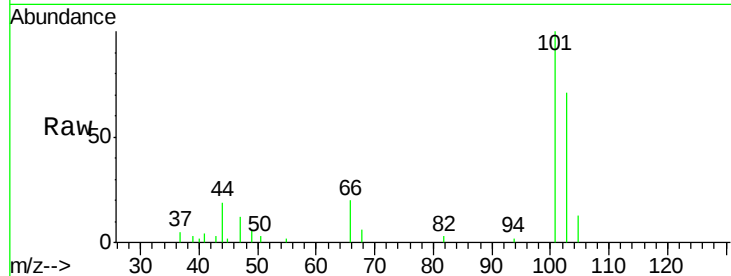
Trichlorofluoromethane
 Concen: 5.555 ug/l
 RT: 2.50 min Scan# 150
 Delta R.T. 0.02 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

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 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	70.9	51.3	76.9

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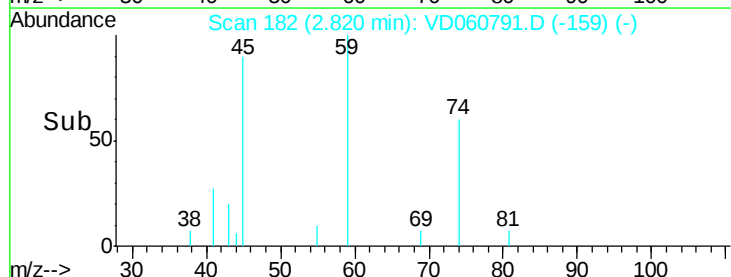
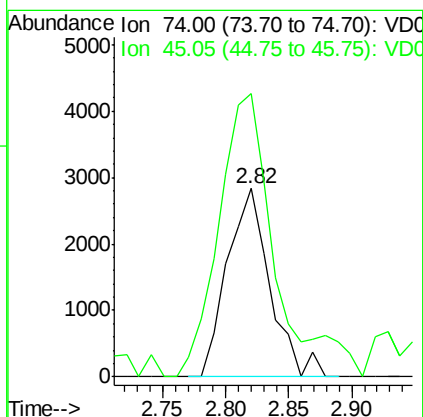
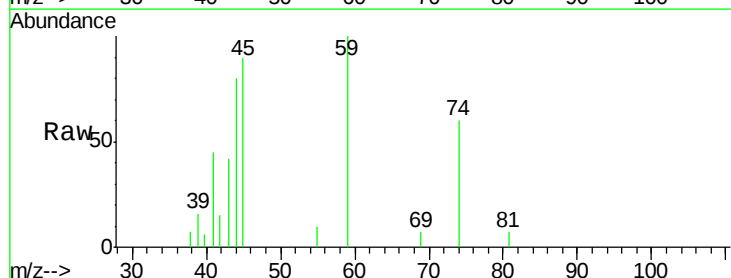
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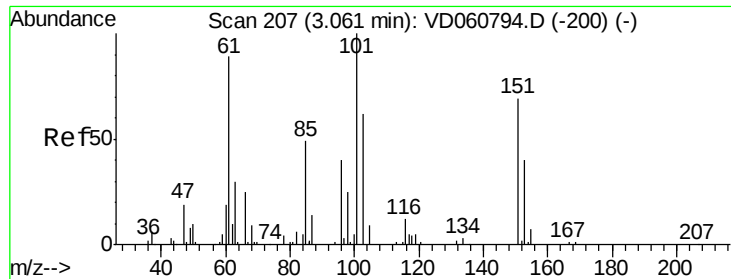


#8

Diethyl Ether
 Concen: 5.071 ug/l
 RT: 2.82 min Scan# 182
 Delta R.T. 0.03 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	150.5	75.6	226.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.567 ug/l

RT: 3.08 min Scan# 208

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

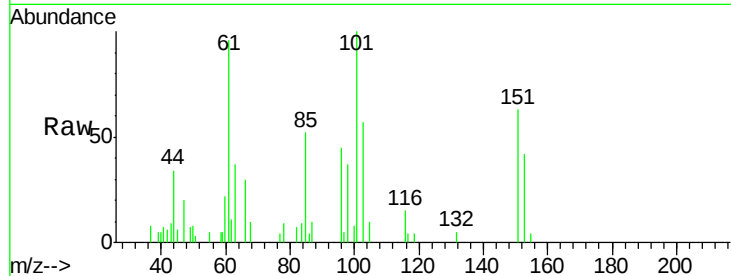
ClientSampleId :

VSTDIC005

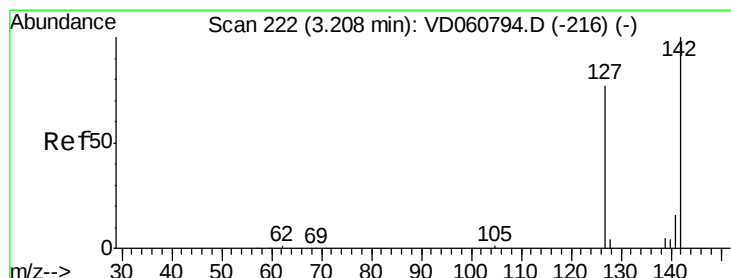
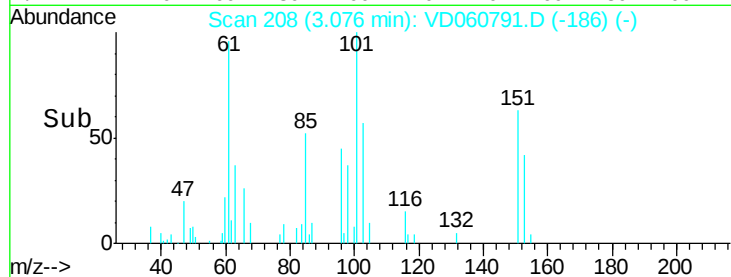
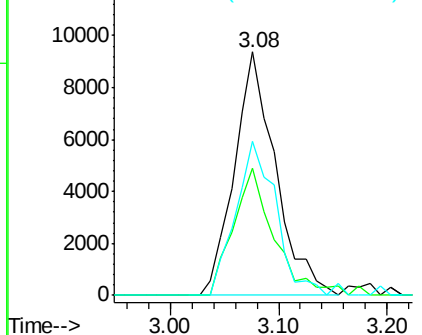
Tot Ion:	101	Resp:	24922
Ion Ratio	Lower	Upper	
101	100		
85	52.2	39.3	58.9
151	63.4	55.1	82.7

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Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 4.784 ug/l

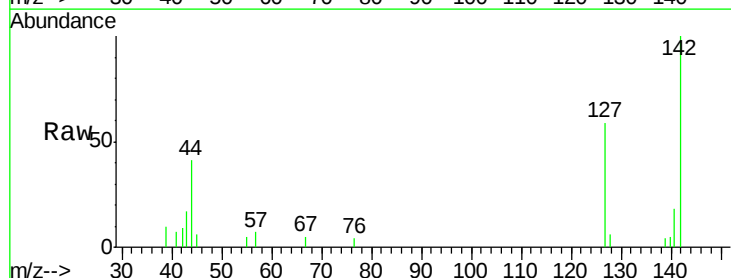
RT: 3.23 min Scan# 224

Delta R.T. 0.02 min

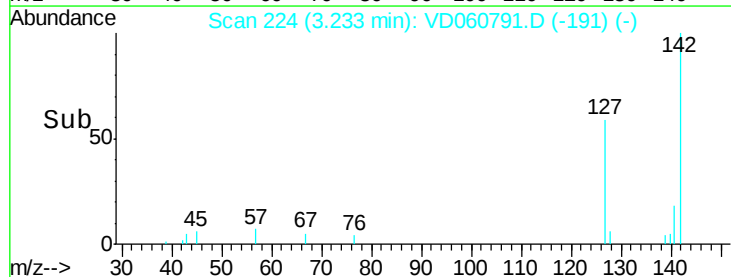
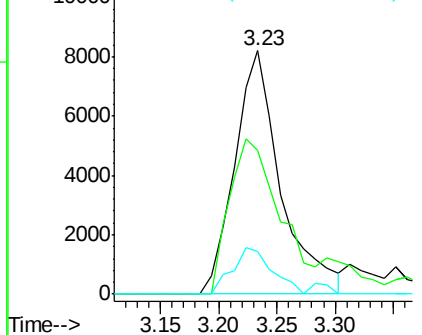
Lab File: VD060791.D

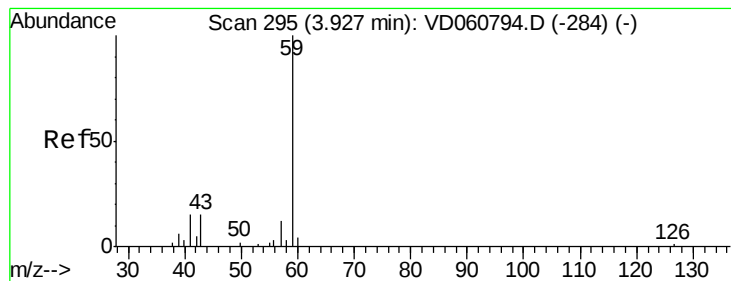
Acq: 28 Jan 2019 15:13

Tgt Ion:	142	Resp:	22422
Ion Ratio	Lower	Upper	
142	100		
127	59.1	61.6	92.4#
141	17.8	12.5	18.7



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V





#11

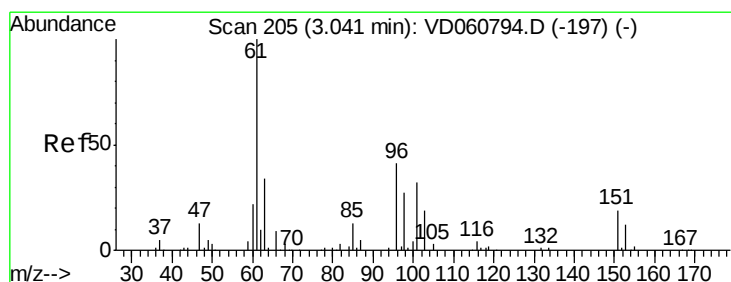
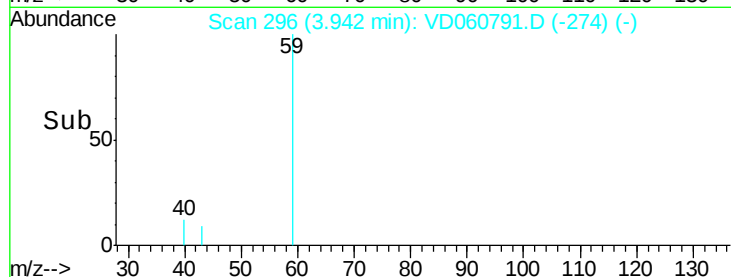
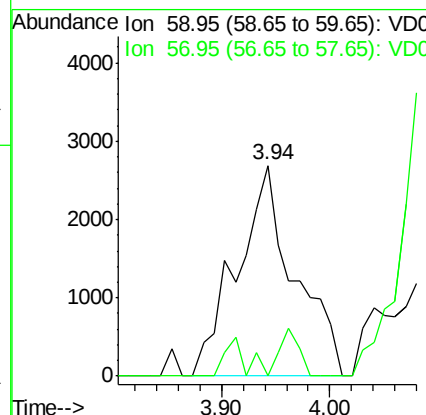
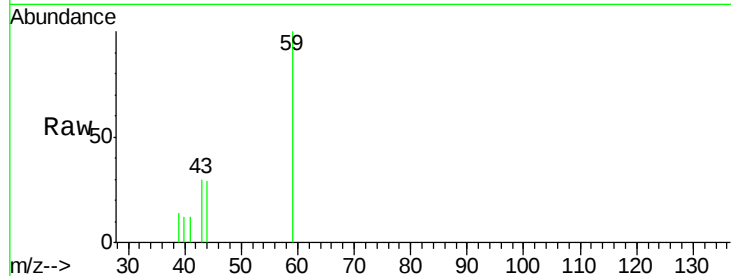
Tert butyl alcohol
 Concen: 23.324 ug/l
 RT: 3.94 min Scan# 296
 Delta R.T. 0.02 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.8	14.6#

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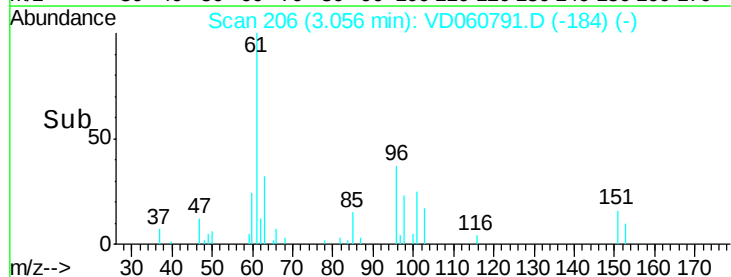
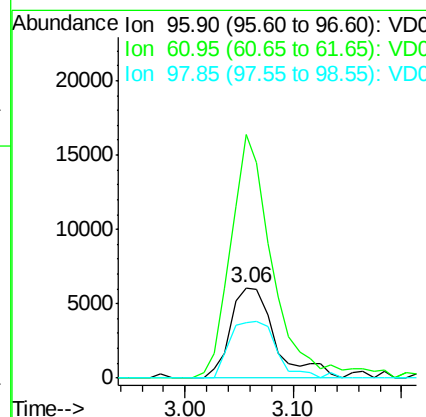
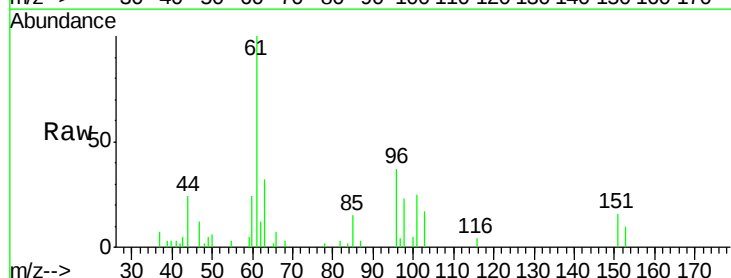
MMDadoda
 1/29/2019 4:55:26 PM

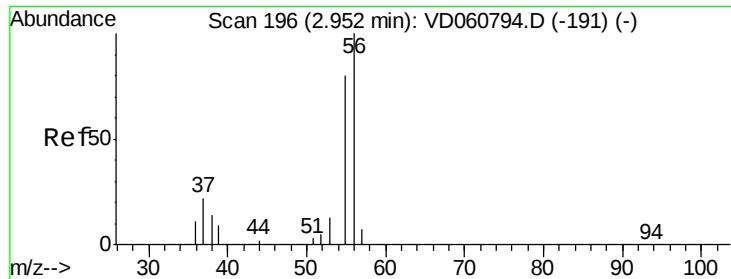


#12

1,1-Dichloroethene
 Concen: 5.654 ug/l
 RT: 3.06 min Scan# 206
 Delta R.T. 0.02 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	268.8	195.1	292.7
98	61.1	52.5	78.7





#13

Acrolein

Concen: 28.499 ug/l

RT: 2.97 min Scan# 197

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 4923

Ion Ratio Lower Upper

56 100

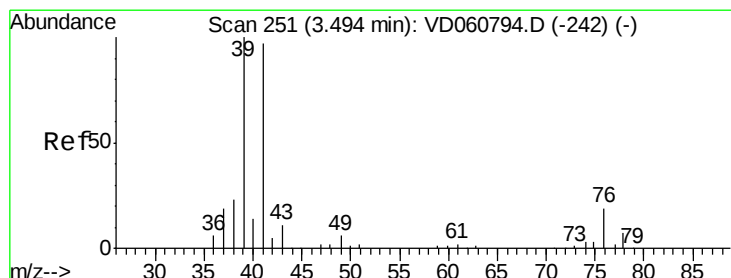
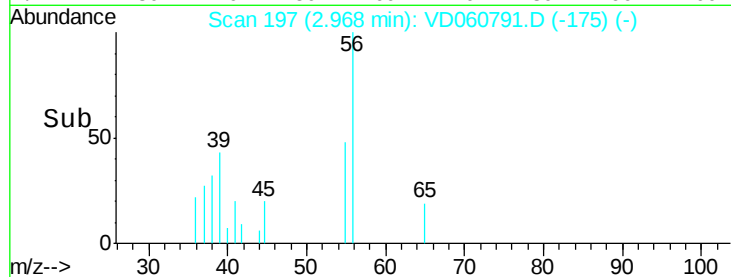
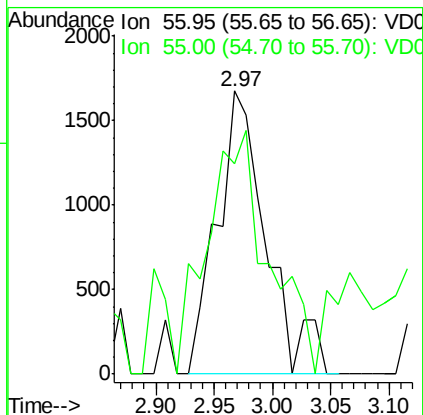
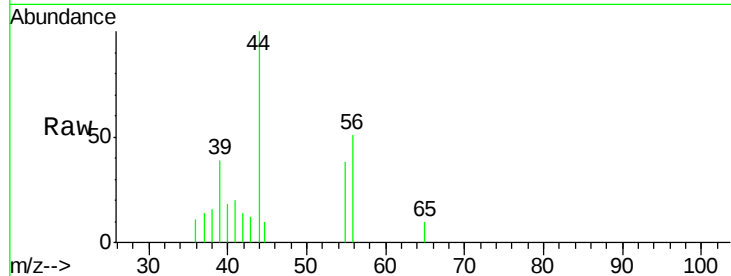
55 74.3 64.2 96.2

Manual Integrations

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#14

Allyl chloride

Concen: 6.065 ug/l

RT: 3.52 min Scan# 253

Delta R.T. 0.03 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

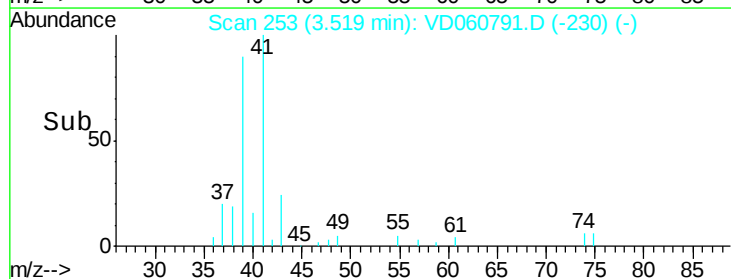
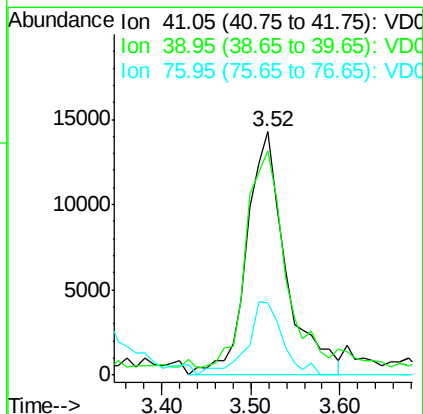
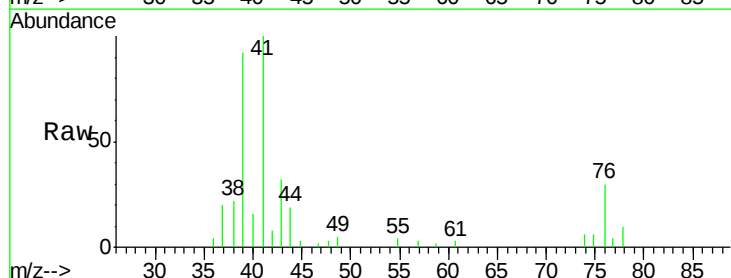
Tgt Ion: 41 Resp: 43179

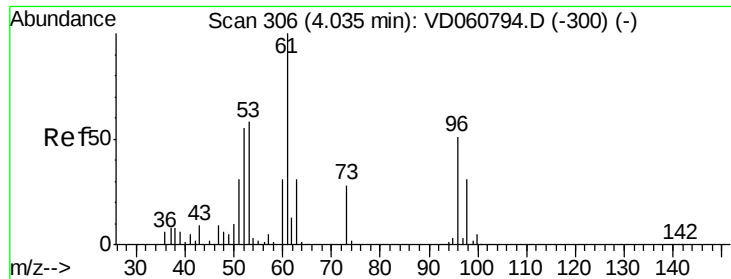
Ion Ratio Lower Upper

41 100

39 92.2 82.6 123.8

76 29.9 18.9 28.3#





#15

Acrylonitrile

Concen: 25.093 ug/l

RT: 4.05 min Scan# 307

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

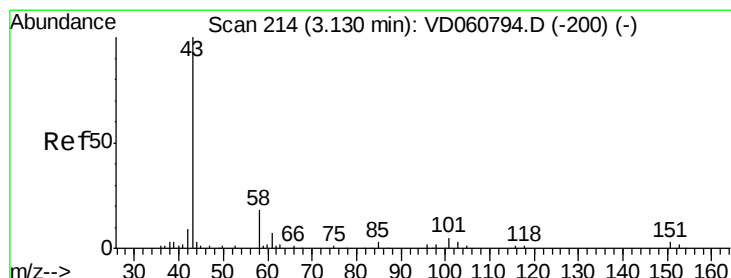
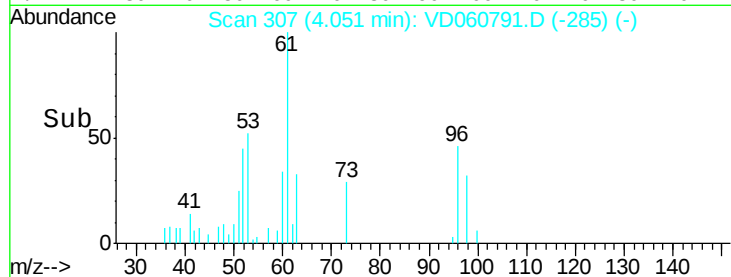
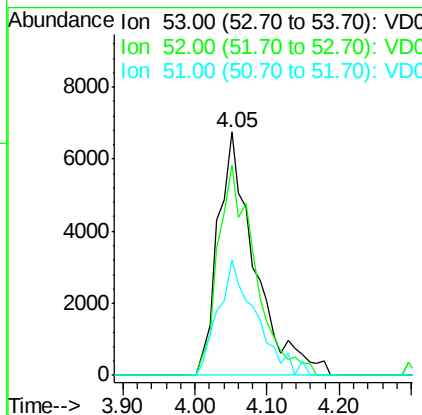
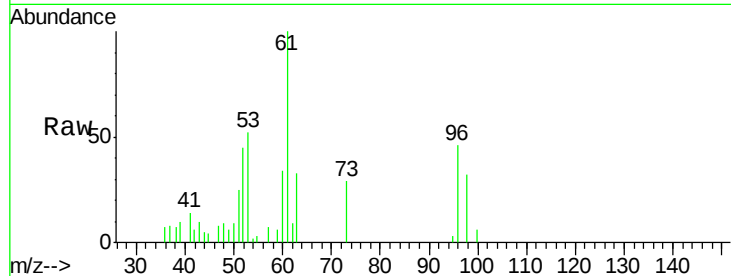
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	23923
Ion	Ratio	Lower	Upper
53	100		
52	86.4	75.4	113.2
51	47.3	42.5	63.7

Manual Integrations
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#16

Acetone

Concen: 31.994 ug/l

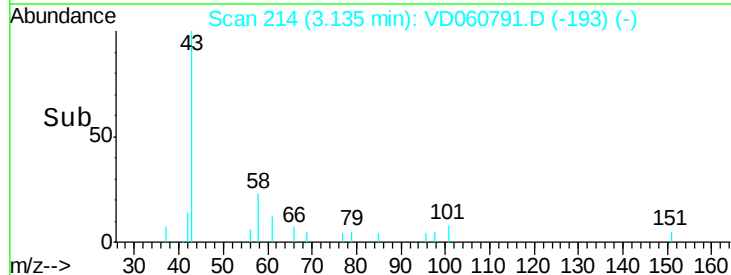
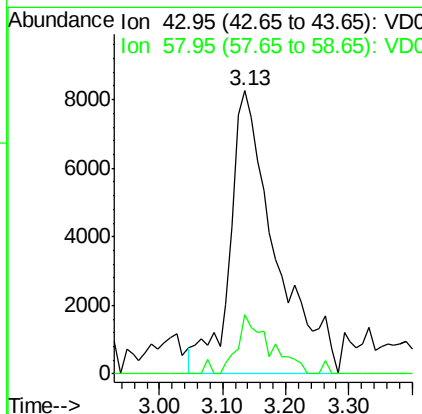
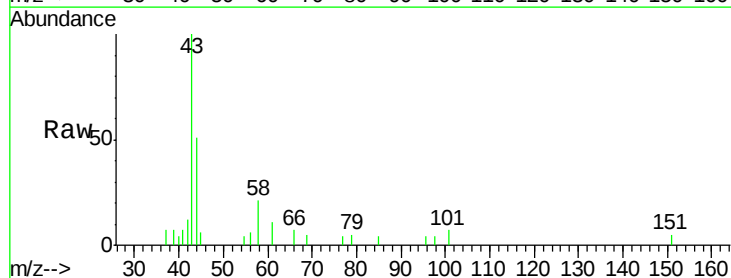
RT: 3.13 min Scan# 214

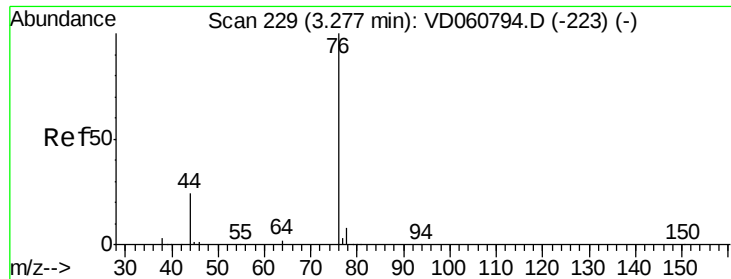
Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion:	43	Resp:	40985
Ion	Ratio	Lower	Upper
43	100		
58	20.8	14.5	21.7





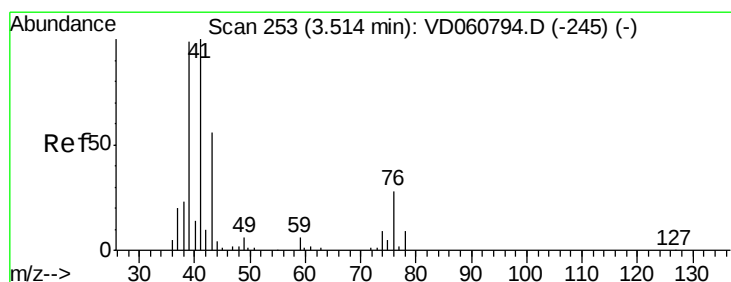
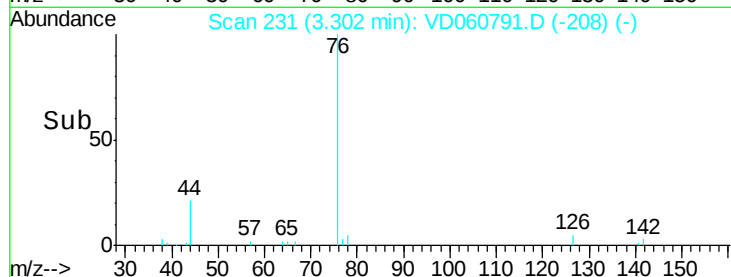
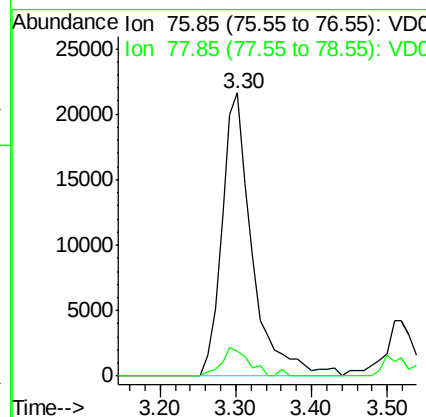
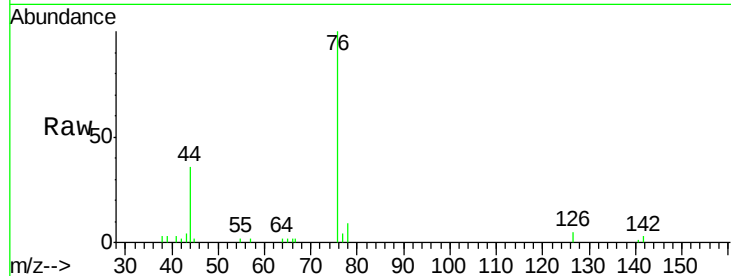
#17
Carbon Disulfide
Concen: 5.515 ug/l
RT: 3.30 min Scan# 231
Delta R.T. 0.02 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 59760
Ion Ratio Lower Upper
76 100
78 8.8 6.5 9.7

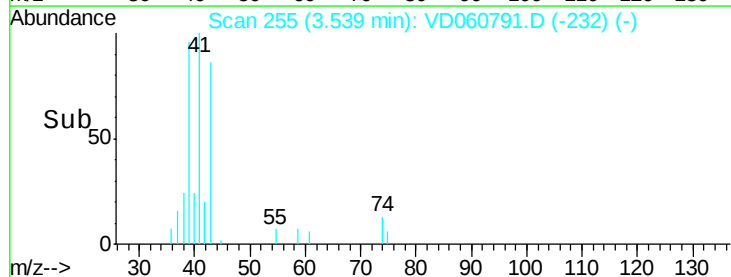
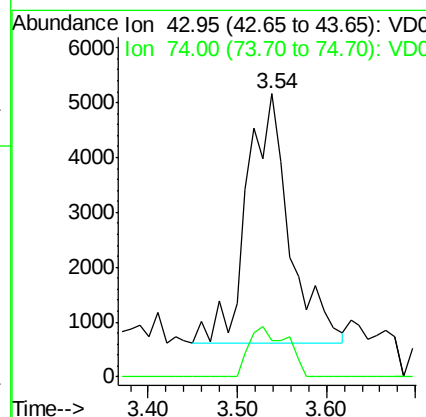
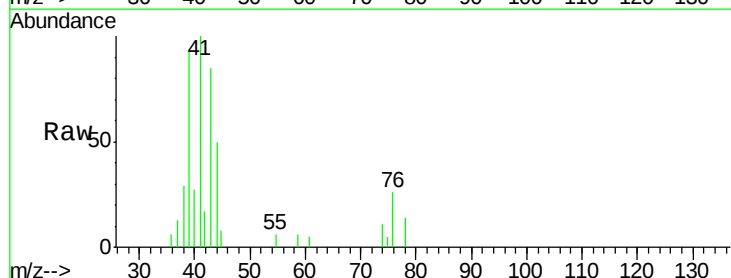
Manual Integrations
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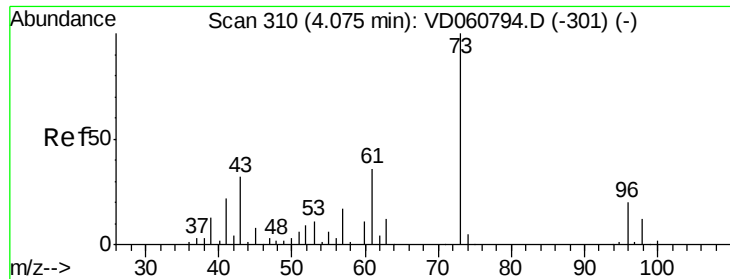
MMDadoda
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#18
Methyl Acetate
Concen: 5.902 ug/l
RT: 3.54 min Scan# 255
Delta R.T. 0.02 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion: 43 Resp: 15046
Ion Ratio Lower Upper
43 100
74 12.7 12.5 18.7





#19

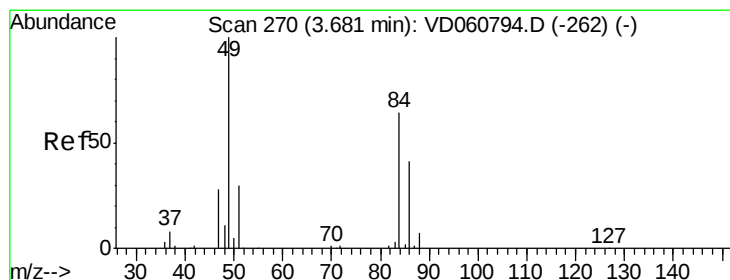
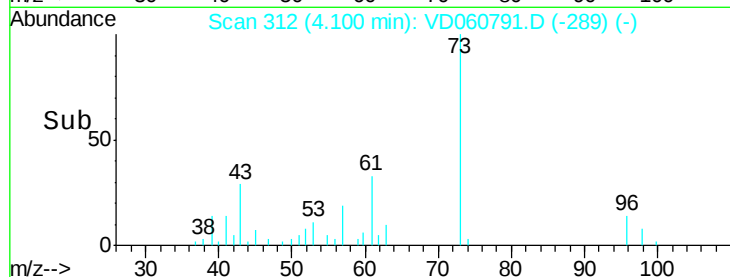
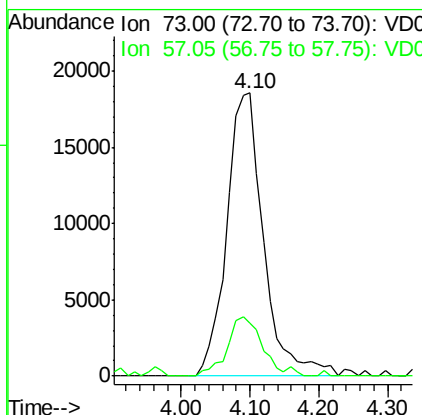
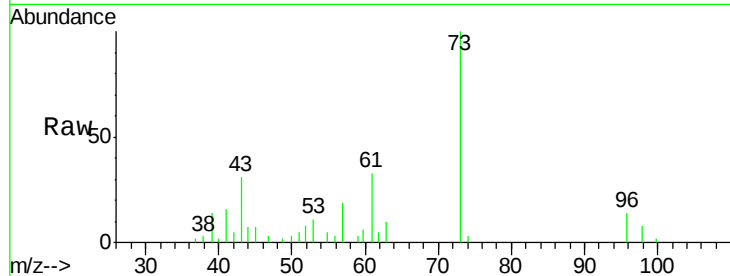
Methyl tert-butyl Ether
Concen: 4.924 ug/l
RT: 4.10 min Scan# 312
Delta R.T. 0.02 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 68765
Ion Ratio Lower Upper
73 100
57 18.7 14.0 21.0

Manual Integrations
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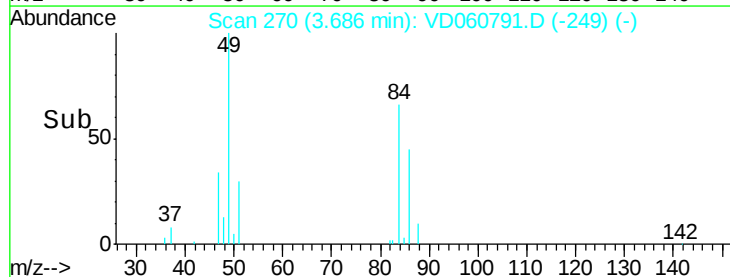
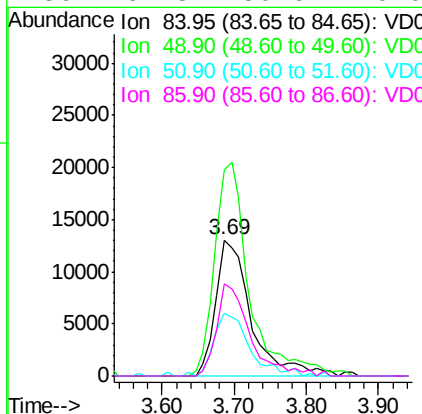
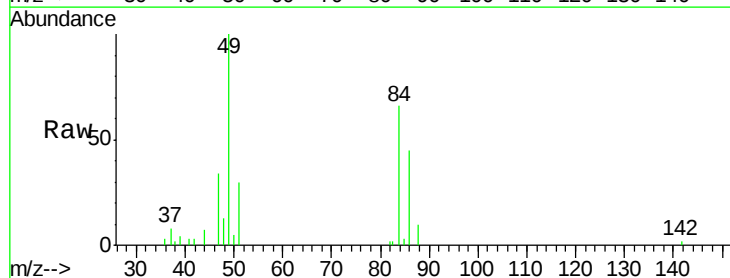
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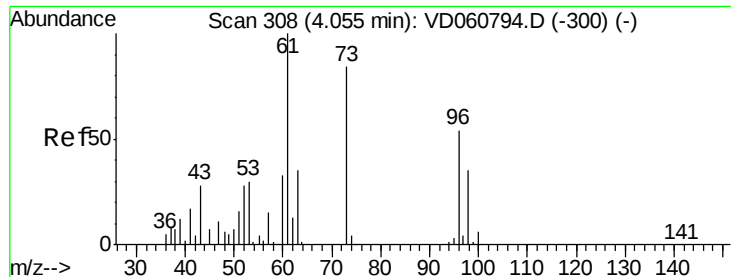


#20

Methylene Chloride
Concen: 6.742 ug/l
RT: 3.69 min Scan# 270
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion: 84 Resp: 44194
Ion Ratio Lower Upper
84 100
49 151.2 124.2 186.2
51 46.1 38.1 57.1
86 67.8 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 5.129 ug/l

RT: 4.07 min Scan# 309

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 27660

Ion Ratio Lower Upper

96 100

61 189.7 147.4 221.2

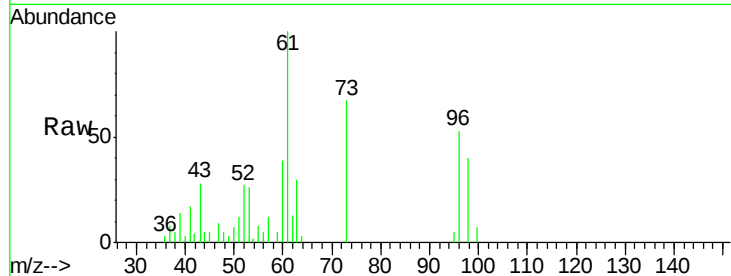
98 75.9 51.5 77.3

Manual Integrations

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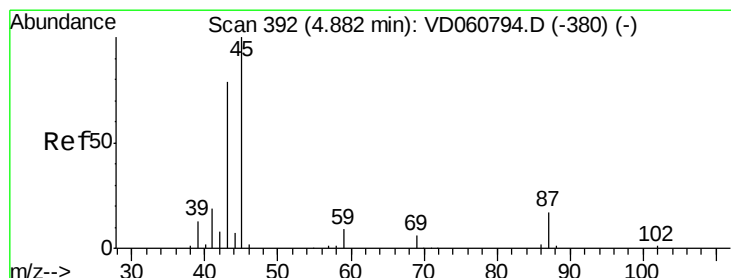
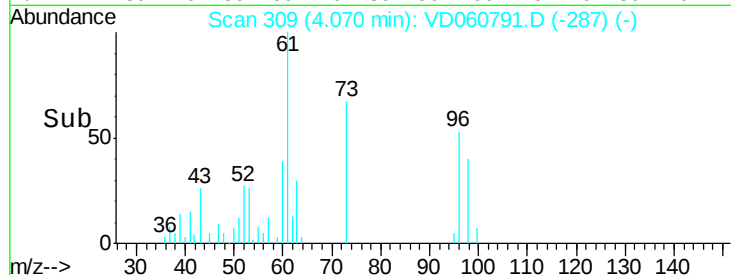
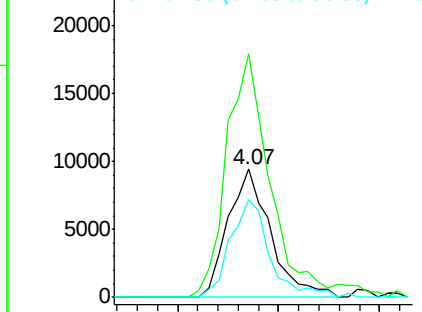


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 5.319 ug/l

RT: 4.90 min Scan# 393

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion: 45 Resp: 97578

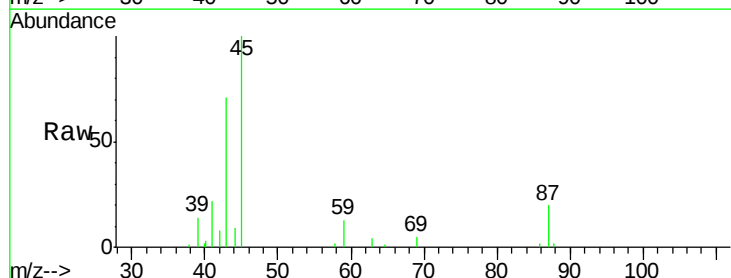
Ion Ratio Lower Upper

45 100

43 71.3 64.3 96.5

87 20.2 14.3 21.5

59 12.5 7.8 11.8#



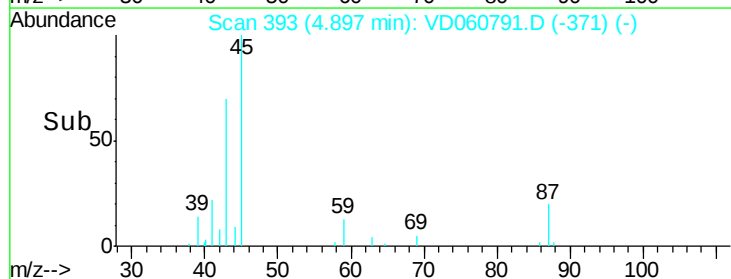
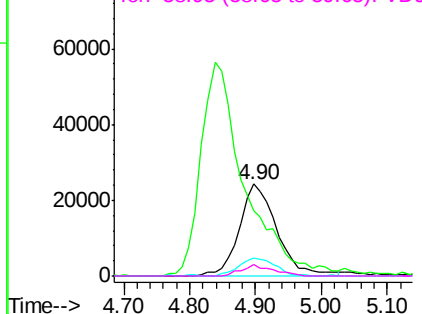
Abundance

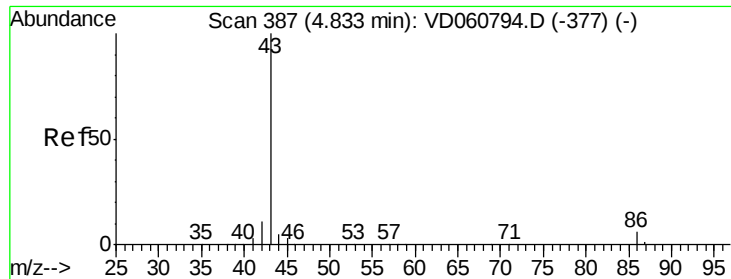
Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 24.260 ug/l

RT: 4.84 min Scan# 387

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 256291

Ion Ratio Lower Upper

43 100

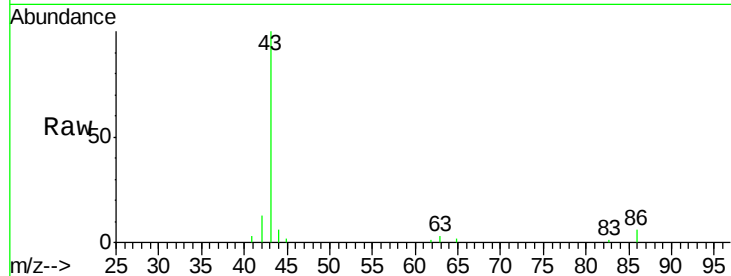
86 5.7 4.7 7.1

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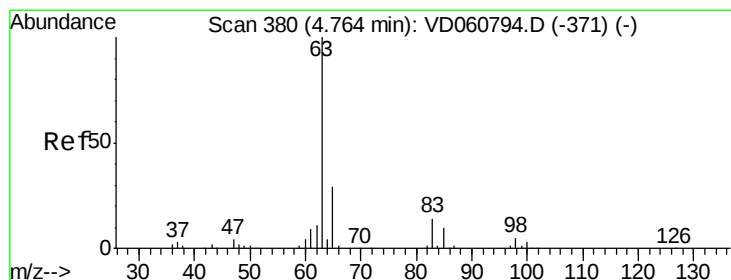
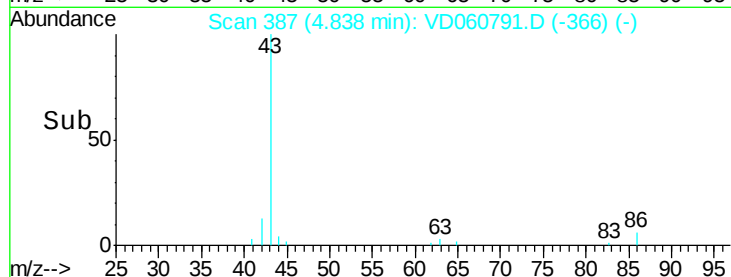
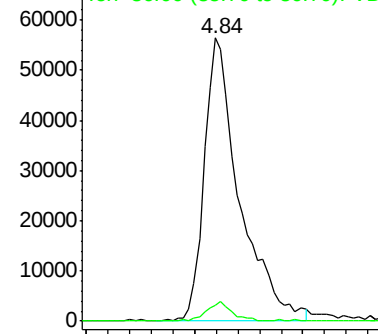
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 5.316 ug/l

RT: 4.78 min Scan# 381

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

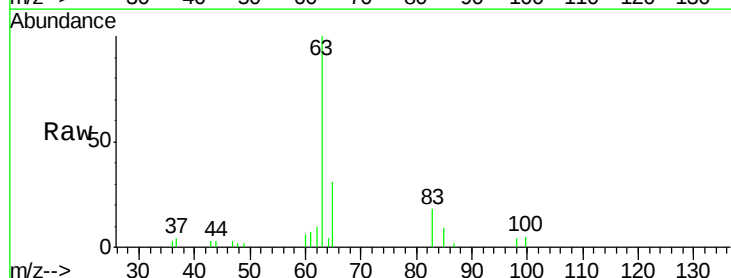
Tgt Ion: 63 Resp: 63841

Ion Ratio Lower Upper

63 100

98 3.9 2.3 6.9

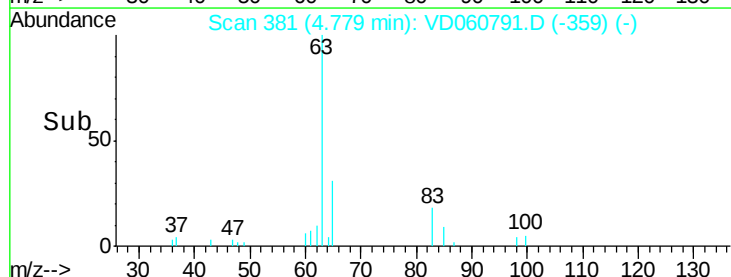
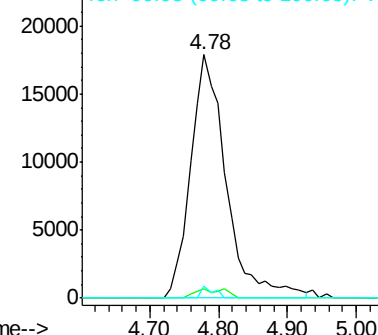
100 4.8 1.3 3.8#

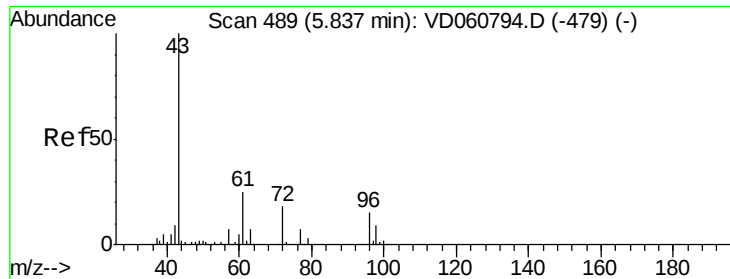


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 24.040 ug/l

RT: 5.85 min Scan# 490

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 39569

Ion Ratio Lower Upper

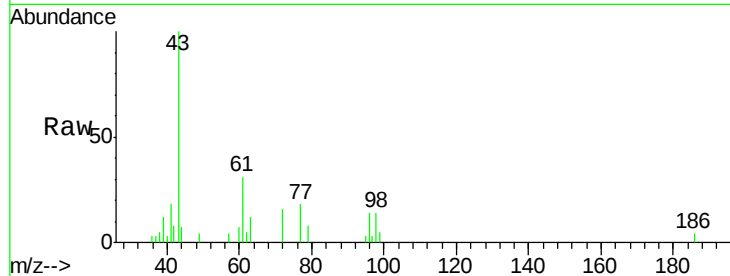
43 100

72 15.7 14.4 21.6

Manual Integrations
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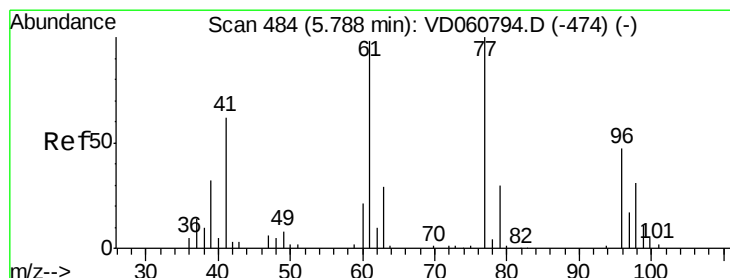
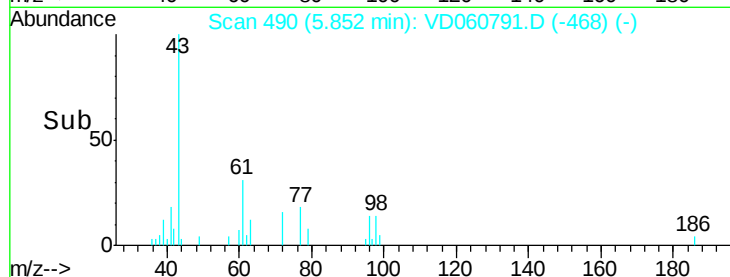
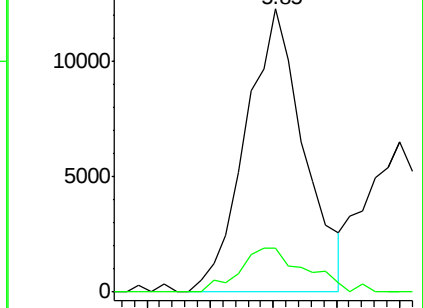
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 5.904 ug/l

RT: 5.80 min Scan# 485

Delta R.T. 0.02 min

Lab File: VD060791.D

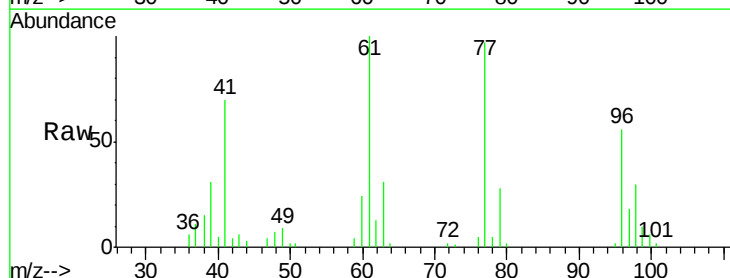
Acq: 28 Jan 2019 15:13

Tgt Ion: 77 Resp: 74710

Ion Ratio Lower Upper

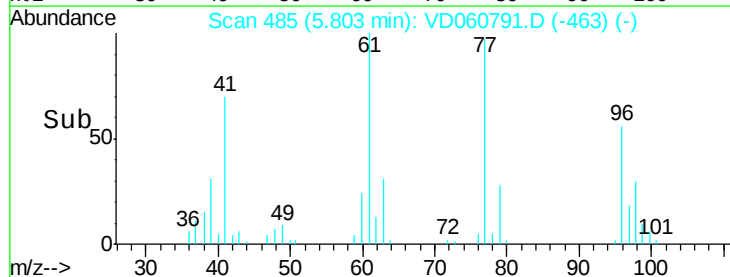
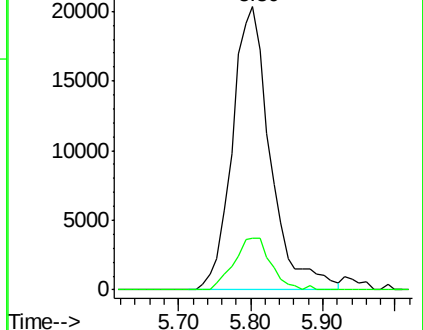
77 100

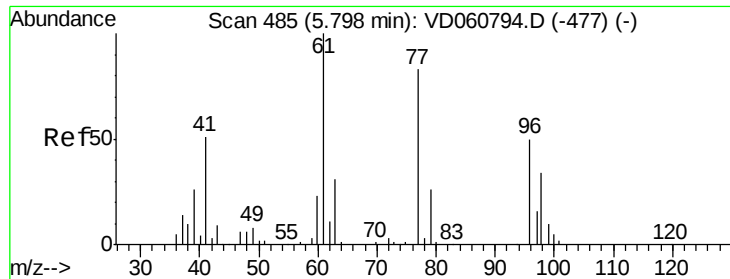
97 18.1 8.3 24.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





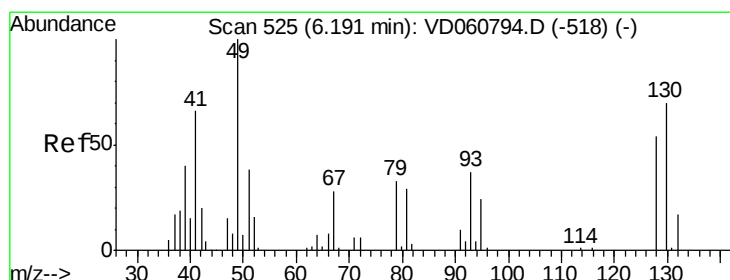
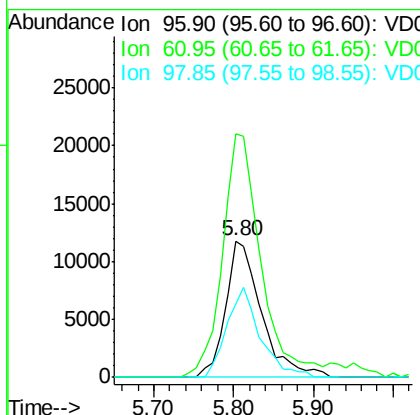
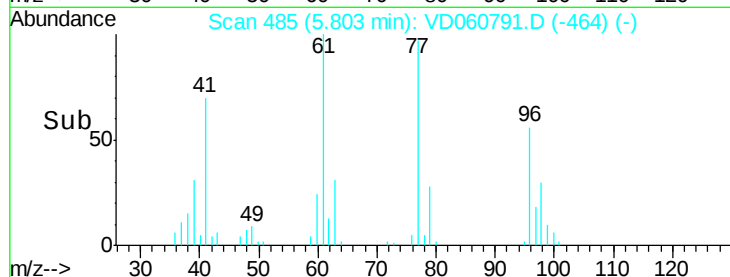
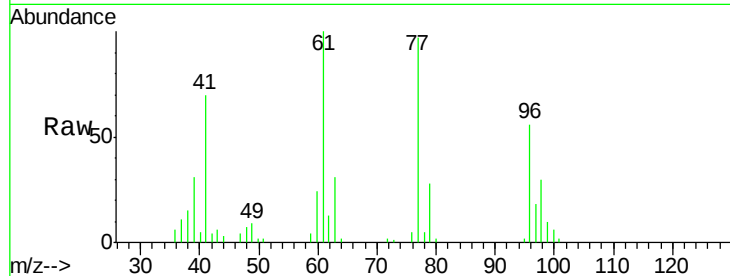
#27
 cis-1,2-Dichloroethene
 Concen: 6.020 ug/l
 RT: 5.80 min Scan# 485
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	178.1	0.0	400.0
98	54.0	0.0	136.4

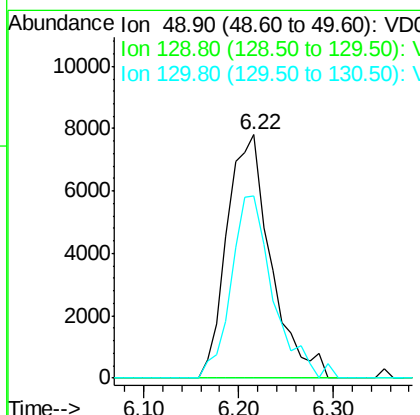
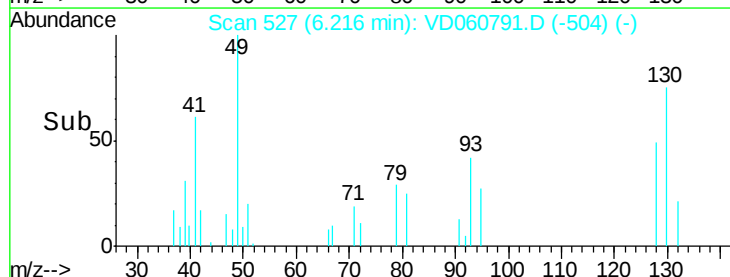
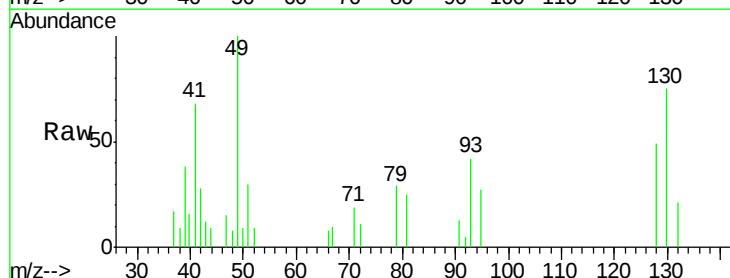
Manual Integrations
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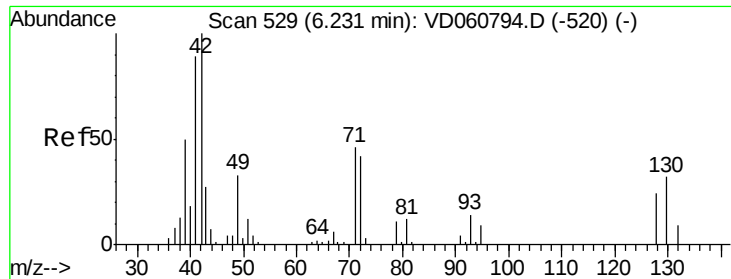
MMDadoda
 1/29/2019 4:55:26 PM



#28
 Bromochloromethane
 Concen: 5.354 ug/l
 RT: 6.22 min Scan# 527
 Delta R.T. 0.03 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	74.7	56.1	84.1





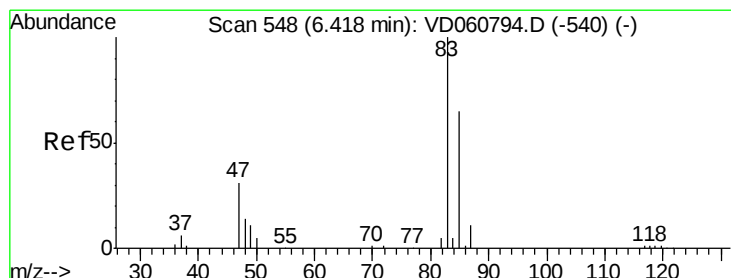
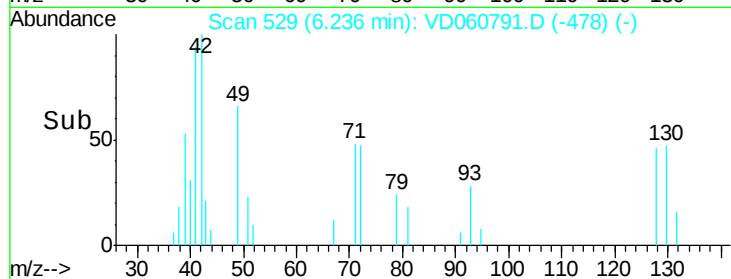
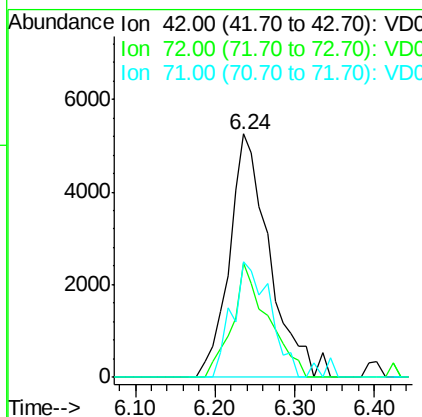
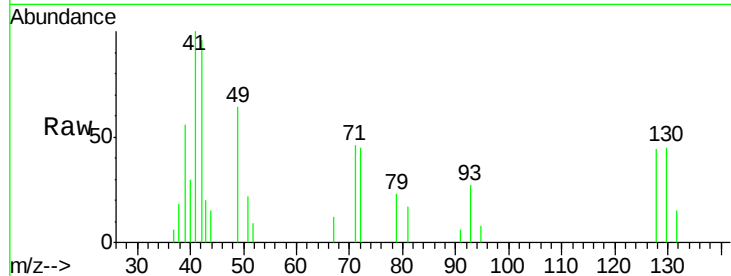
#29
Tetrahydrofuran
Concen: 23.257 ug/l
RT: 6.24 min Scan# 529
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	32.8	49.2
71	44.6	34.6	52.0

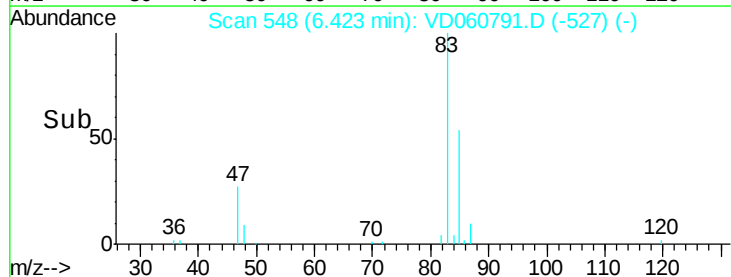
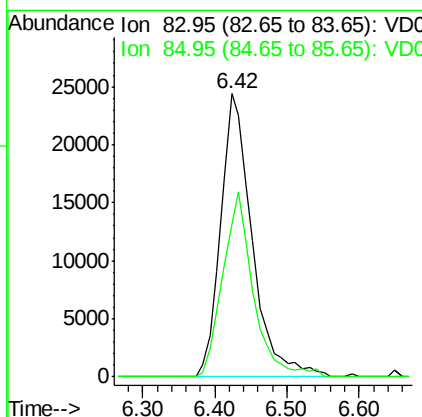
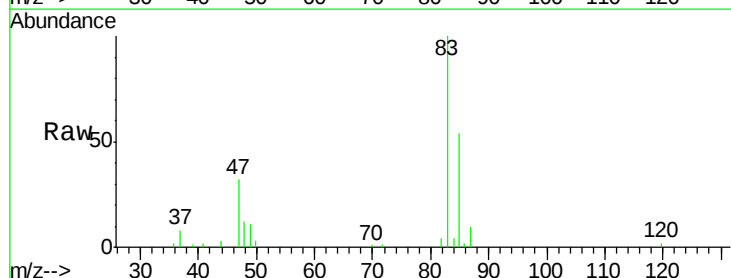
Manual Integrations
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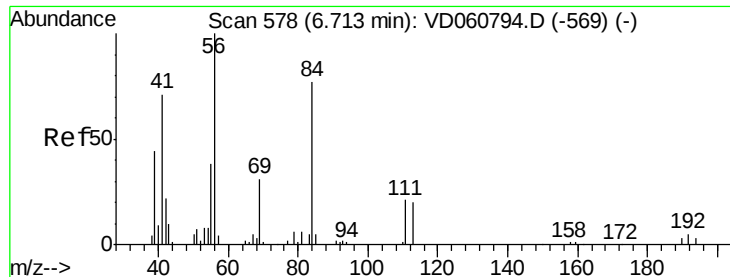
MMDadoda
1/29/2019 4:55:26 PM



#30
Chloroform
Concen: 5.179 ug/l
RT: 6.42 min Scan# 548
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.0	52.3	78.5





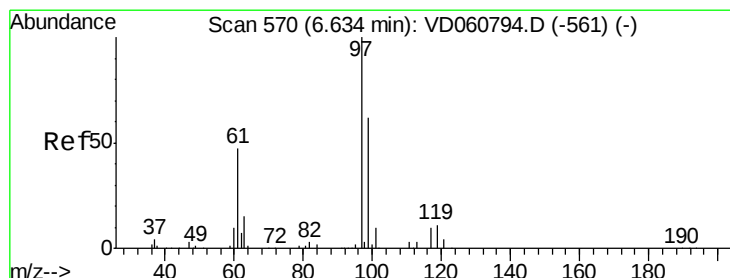
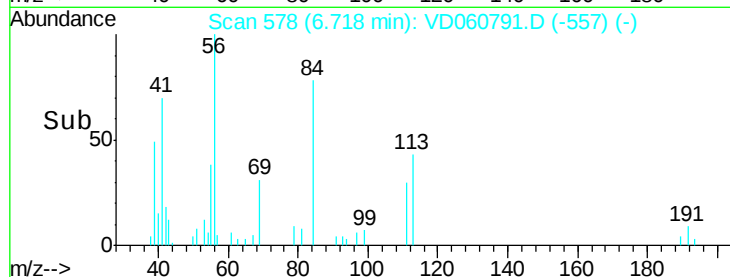
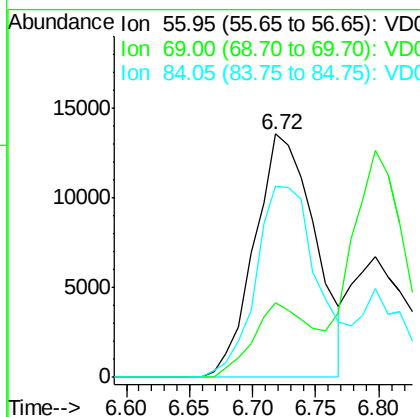
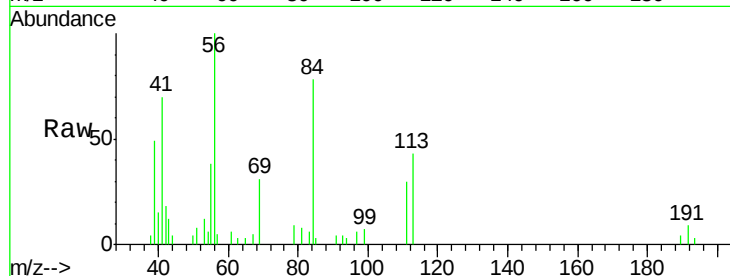
#31
Cyclohexane
Concen: 5.541 ug/l
RT: 6.72 min Scan# 578
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.9	25.1	37.7
84	78.3	63.9	95.9

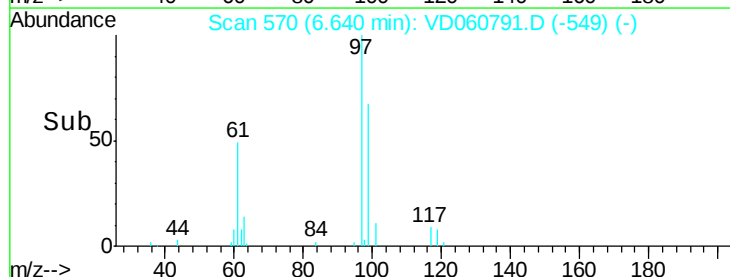
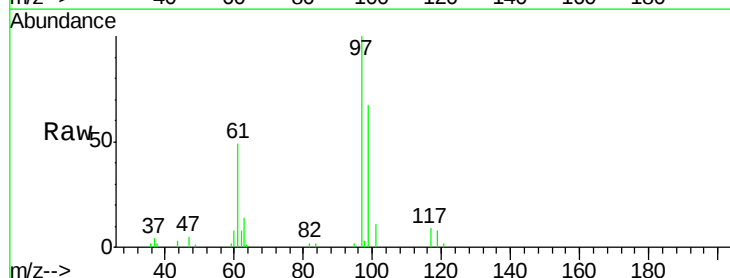
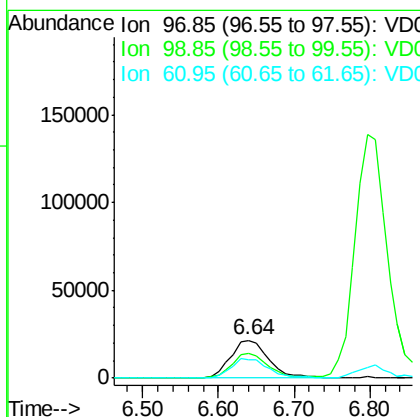
Manual Integrations
APPROVED

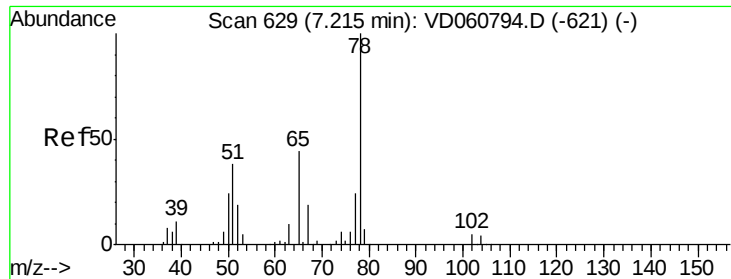
MMDadoda
1/29/2019 4:55:26 PM



#32
1,1,1-Trichloroethane
Concen: 5.512 ug/l
RT: 6.64 min Scan# 570
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.6	49.6	74.4
61	48.8	37.4	56.2





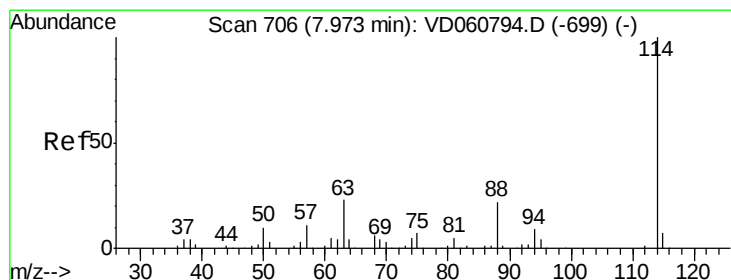
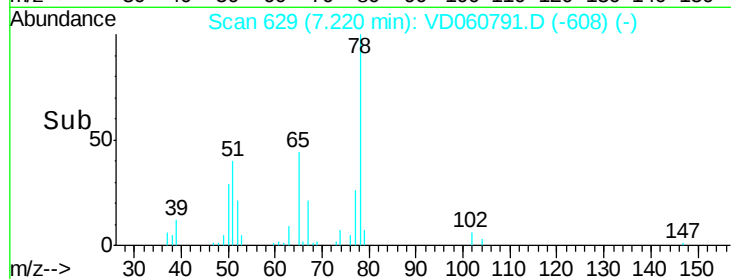
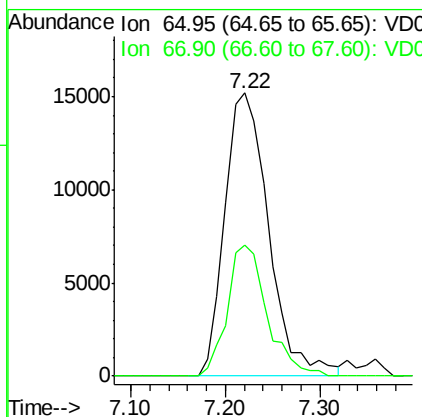
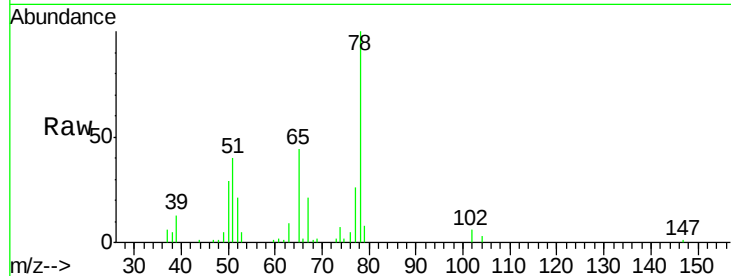
#33
 1,2-Dichloroethane-d4
 Concen: 5.512 ug/l
 RT: 7.22 min Scan# 629
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	46.3	0.0	85.8

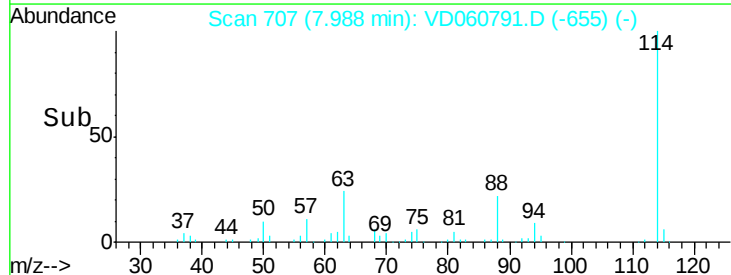
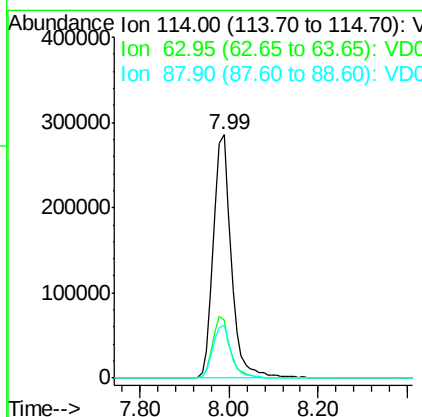
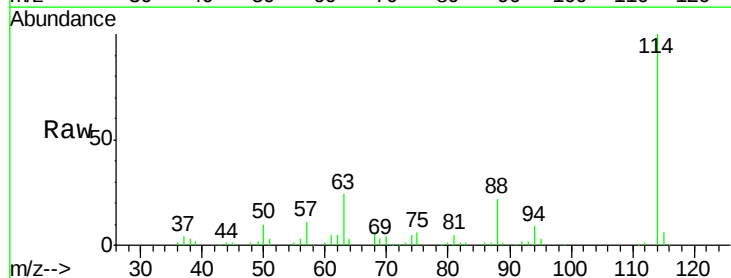
Manual Integrations
 APPROVED

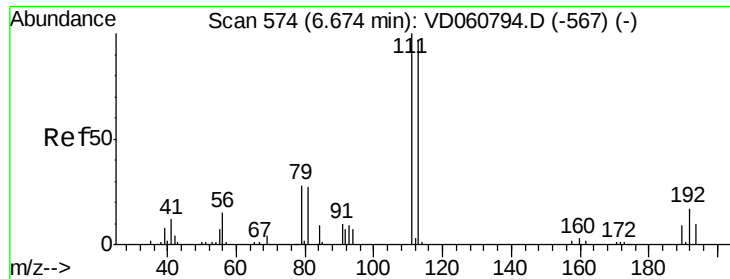
MMDadoda
 1/29/2019 4:55:26 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.99 min Scan# 707
 Delta R.T. 0.02 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	46.6
88	21.8	0.0	44.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.69 min Scan# 575

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

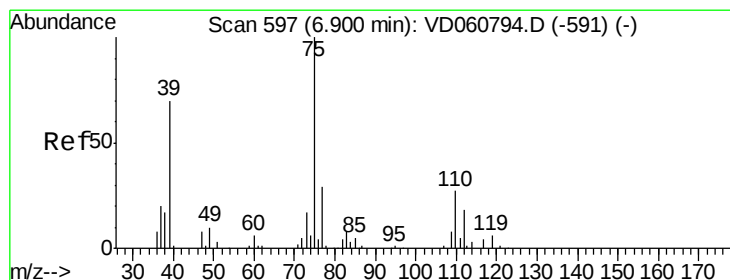
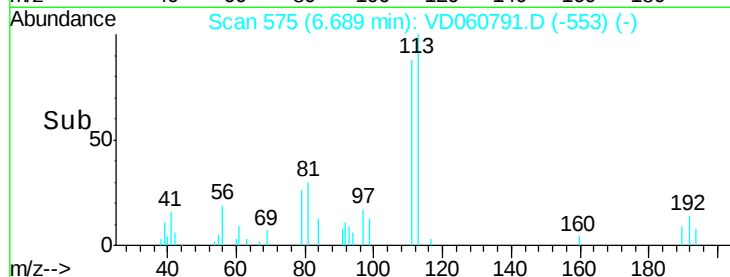
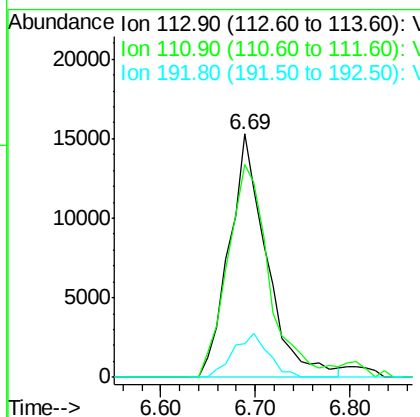
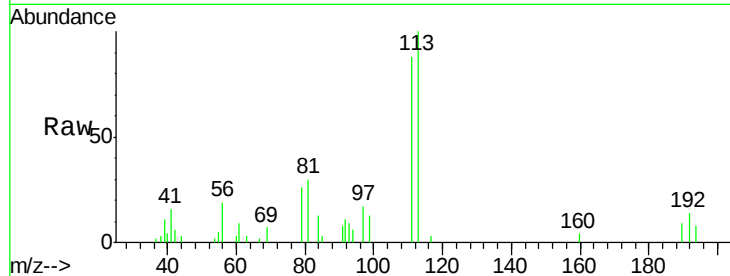
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	87.5	82.3	123.5
192	14.0	14.4	21.6

Manual Integrations
APPROVED

MMDadoda
1/29/2019 4:55:26 PM



#36

1,1-Dichloropropene

Concen: 5.787 ug/l

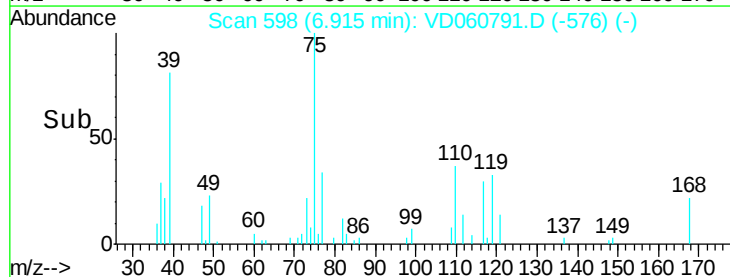
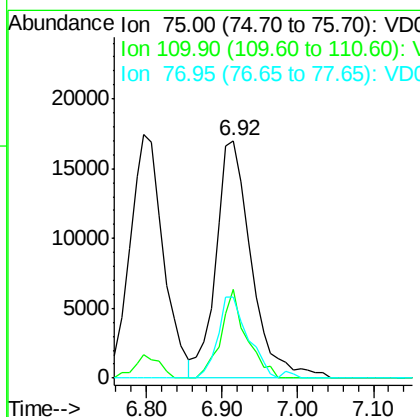
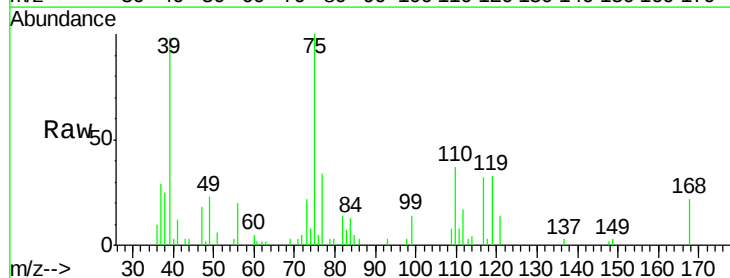
RT: 6.92 min Scan# 598

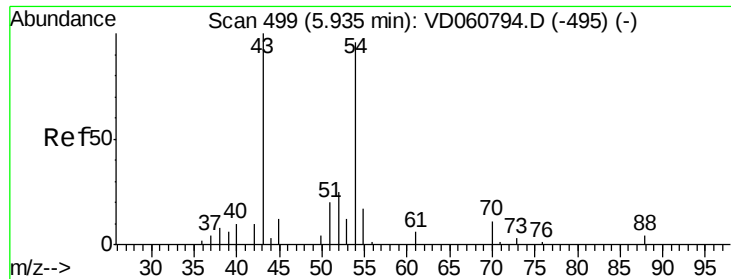
Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.2	13.5	40.4
77	33.9	23.4	35.2





#37

Ethyl Acetate

Concen: 5.712 ug/l

RT: 5.95 min Scan# 500

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

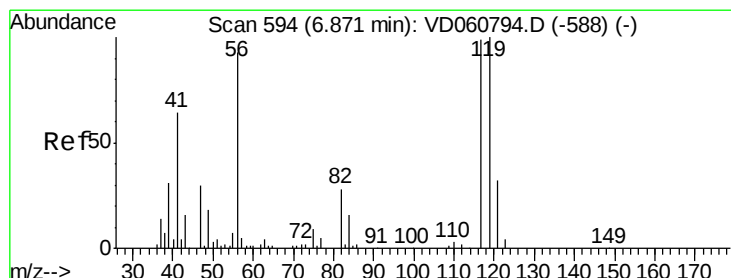
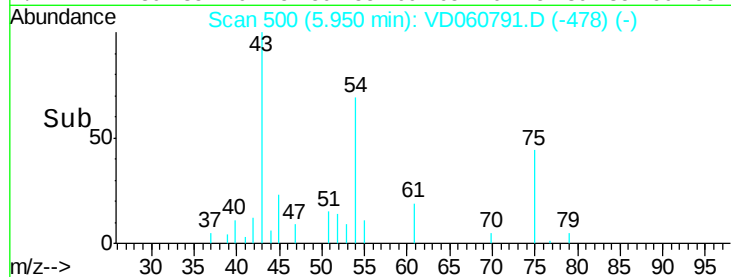
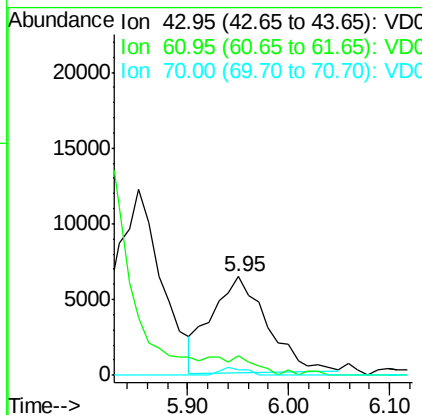
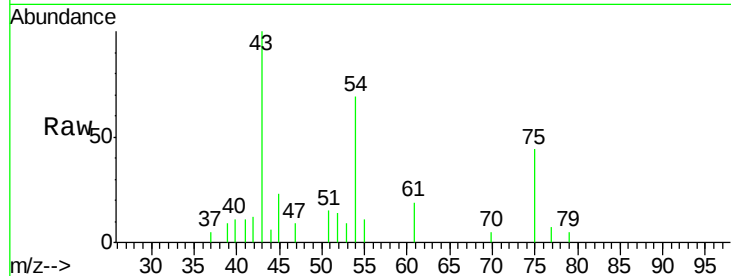
VSTDIC005

Tot Ion: 43 Resp: 24348

Ion	Ratio	Lower	Upper
43	100		
61	19.3	12.3	18.5#
70	5.3	7.4	11.0#

Manual Integrations
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1/29/2019 4:55:26 PM



#38

Carbon Tetrachloride

Concen: 5.397 ug/l

RT: 6.88 min Scan# 594

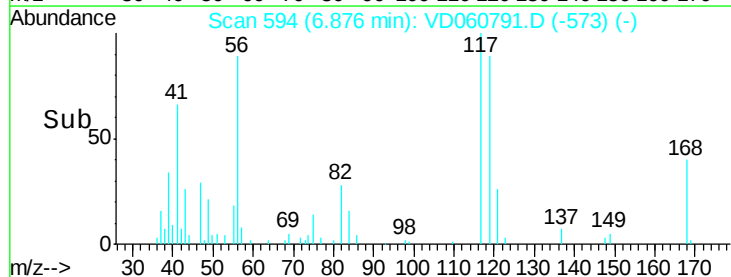
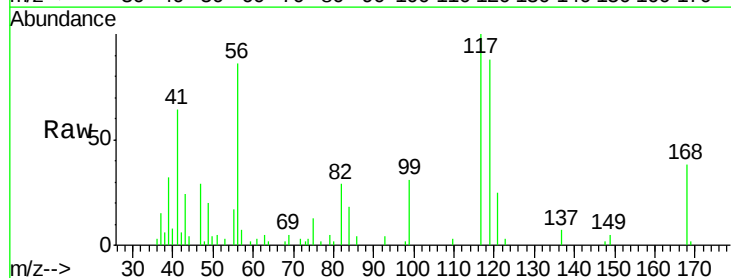
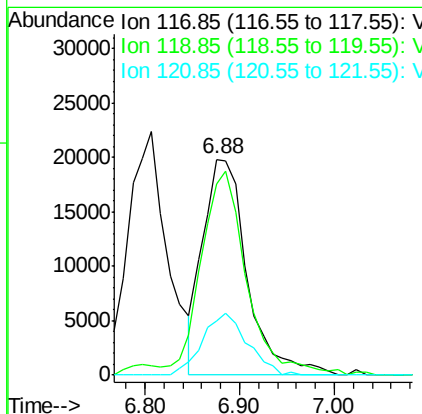
Delta R.T. 0.01 min

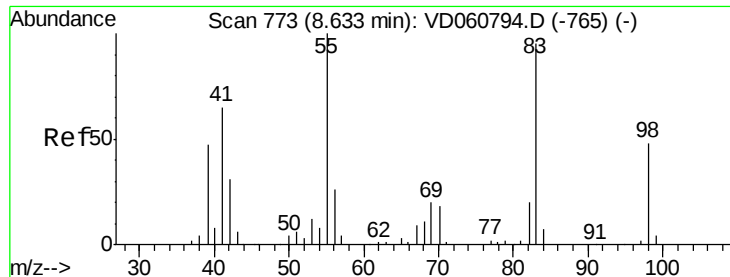
Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion: 117 Resp: 64624

Ion	Ratio	Lower	Upper
117	100		
119	88.5	75.6	113.4
121	24.9	23.4	35.2





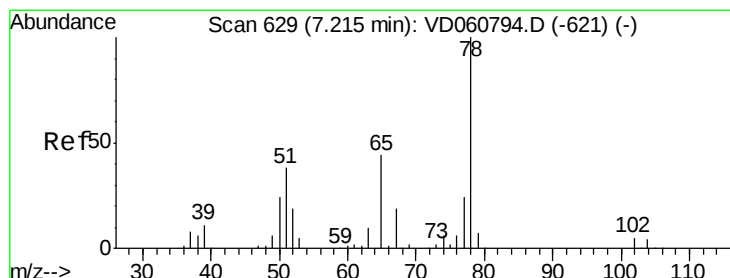
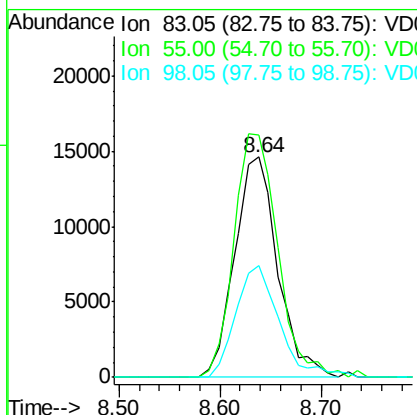
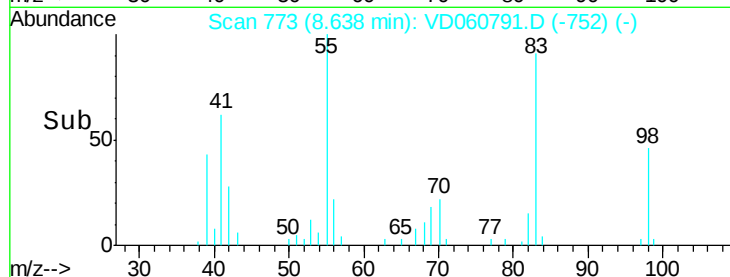
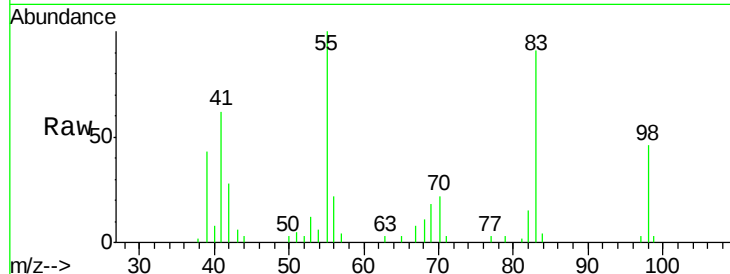
#39
Methvlcvclohexane
Concen: 5.425 ug/l
RT: 8.64 min Scan# 773
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	43381
Ion Ratio	Lower	Upper	
83	100		
55	110.4	83.8	125.8
98	50.6	39.8	59.8

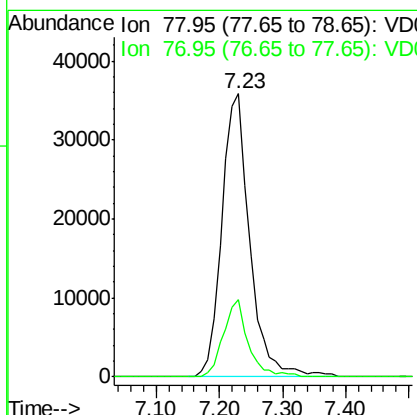
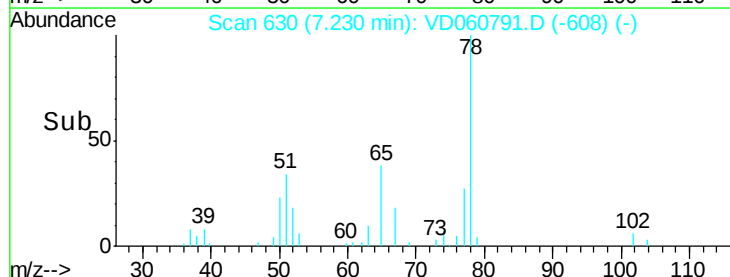
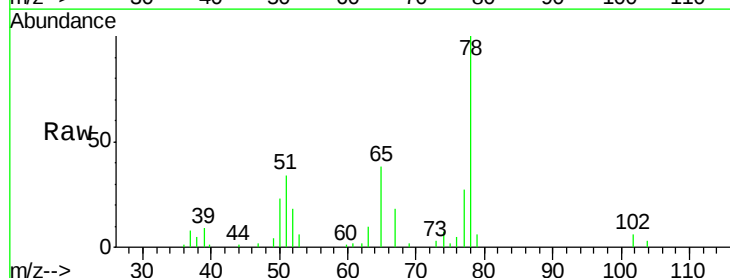
Manual Integrations
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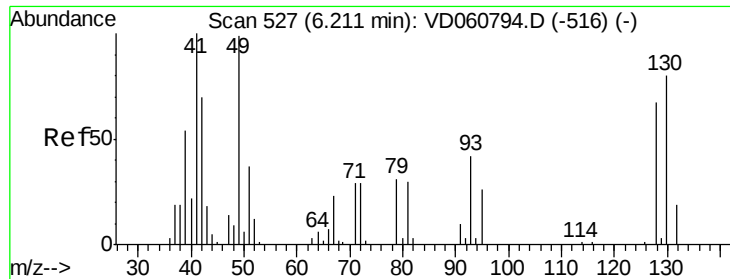
MMDadoda
1/29/2019 4:55:26 PM



#40
Benzene
Concen: 5.835 ug/l
RT: 7.23 min Scan# 630
Delta R.T. 0.02 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	78	Resp	109973
Ion Ratio	Lower	Upper	
78	100		
77	27.2	18.9	28.3





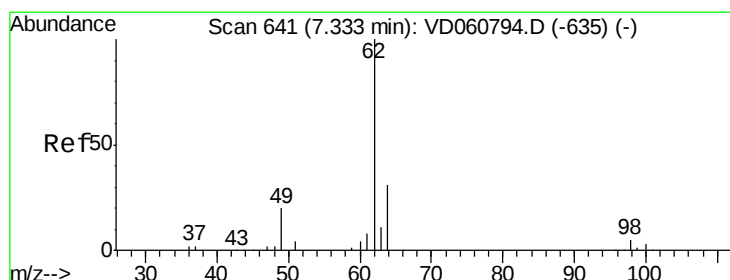
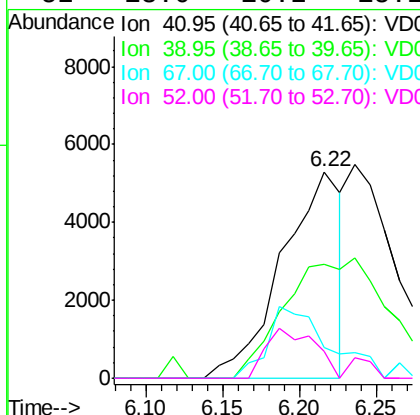
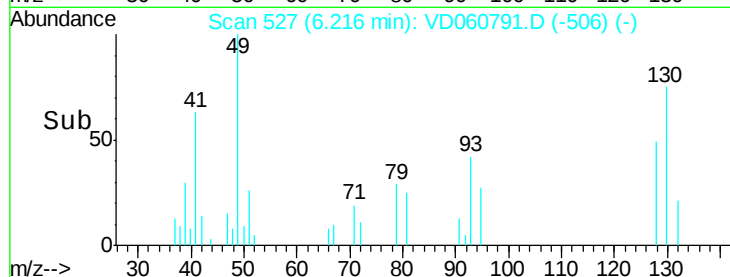
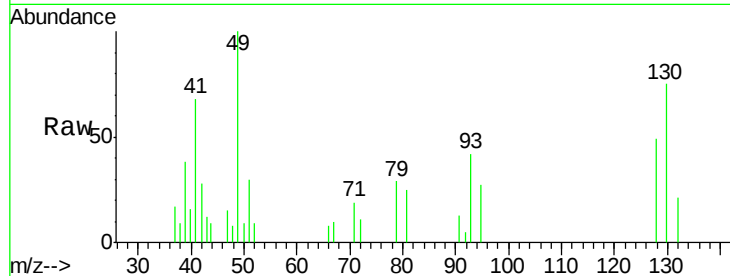
#41
Methacrylonitrile
Concen: 5.142 ug/l m
RT: 6.22 min Scan# 527
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
14411	41	100		
	39	55.4	43.6	65.4
	67	15.1	18.5	27.7
	52	13.0	10.2	15.2

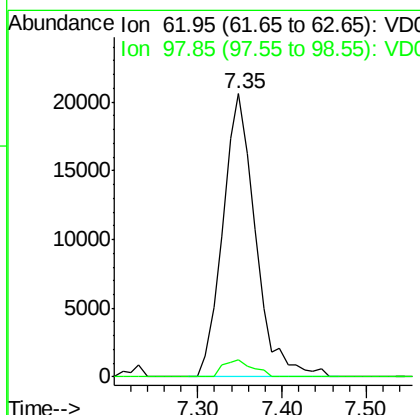
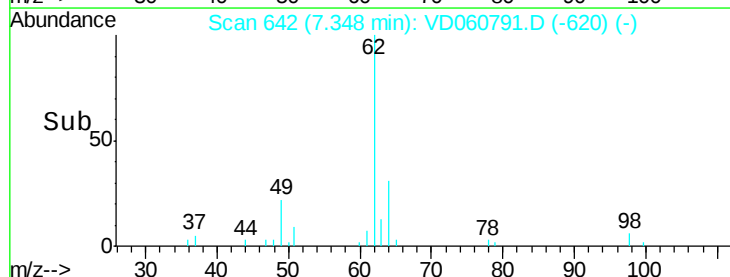
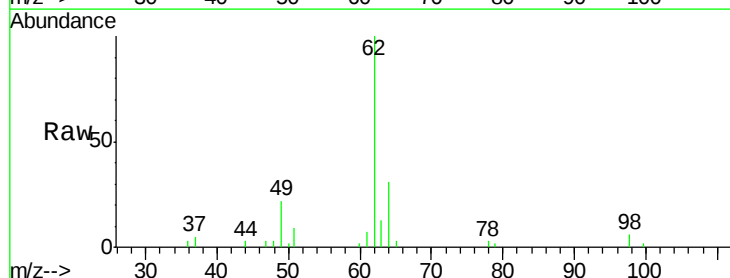
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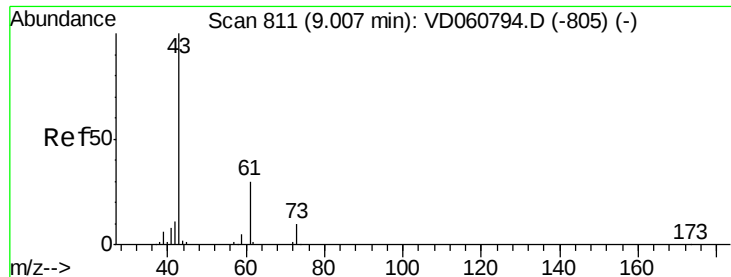
MMDadoda
1/29/2019 4:55:26 PM



#42
1,2-Dichloroethane
Concen: 5.069 ug/l
RT: 7.35 min Scan# 642
Delta R.T. 0.02 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	Ion	Ratio	Lower	Upper
55500	62	100		
	98	6.1	0.0	10.2





#43

Isopropyl Acetate

Concen: 5.070 ug/l

RT: 9.01 min Scan# 811

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

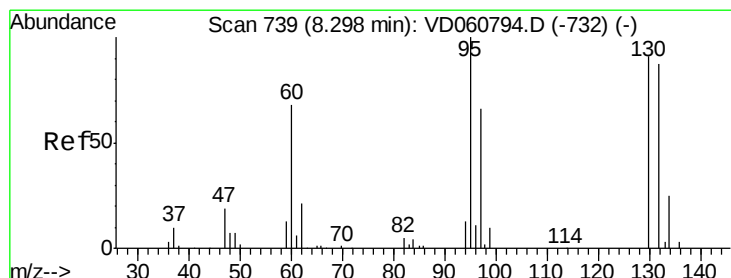
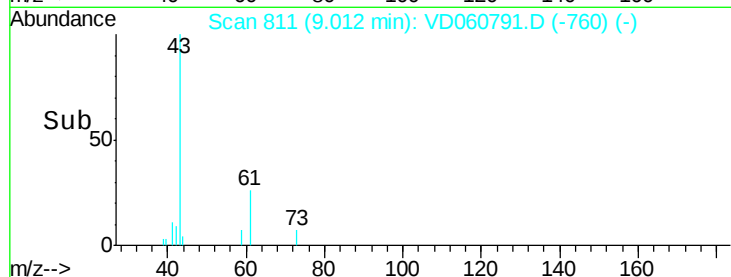
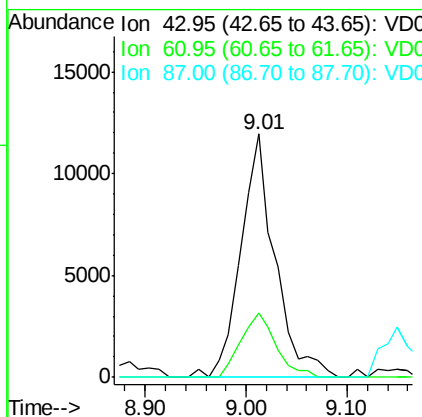
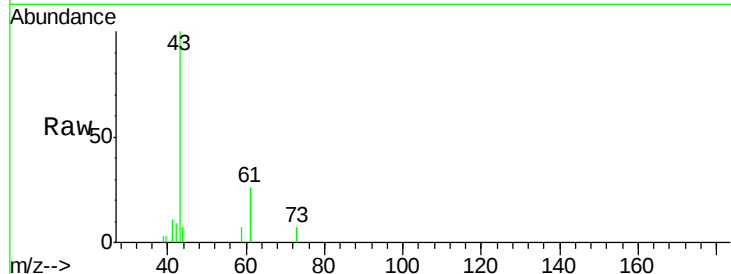
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	28187
Ion	Ratio	Lower	Upper
43	100		
61	26.5	24.1	36.1
87	0.0	0.0	0.0

Manual Integrations
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1/29/2019 4:55:26 PM



#44

Trichloroethene

Concen: 5.500 ug/l

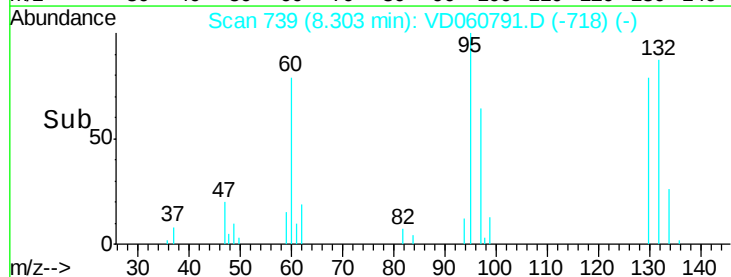
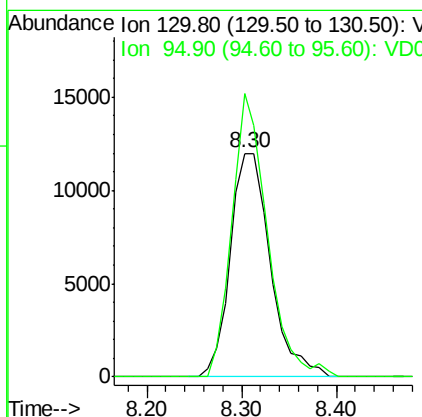
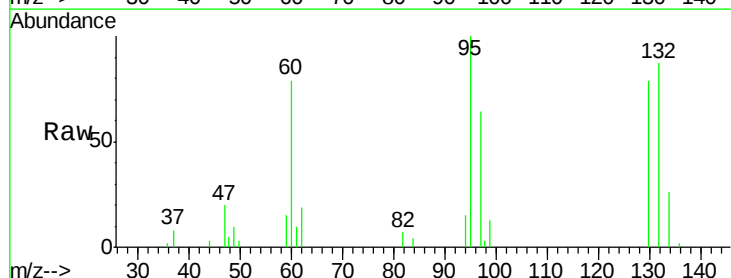
RT: 8.30 min Scan# 739

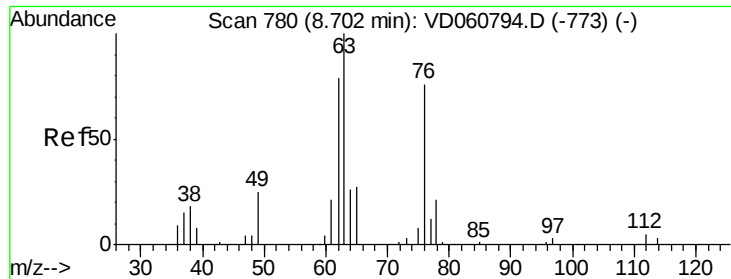
Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion:	130	Resp:	35135
Ion	Ratio	Lower	Upper
130	100		
95	126.5	0.0	221.0





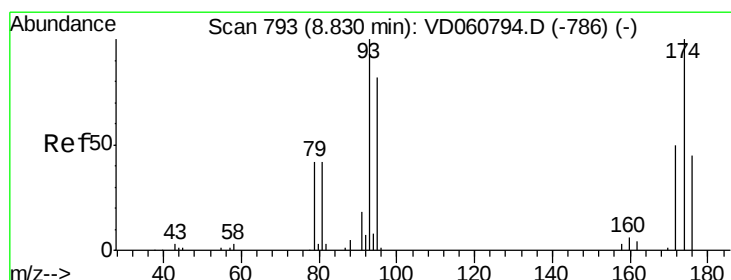
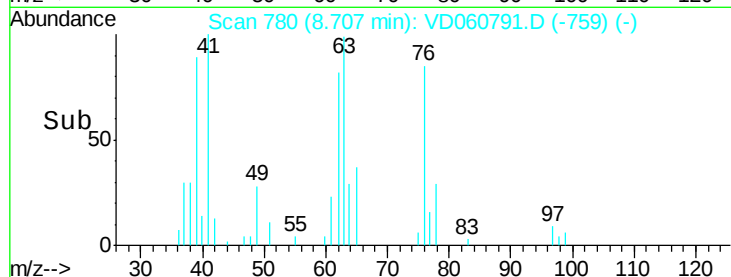
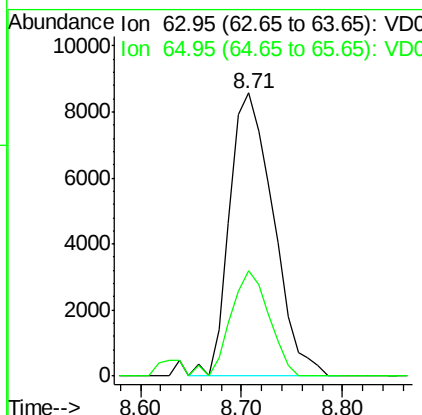
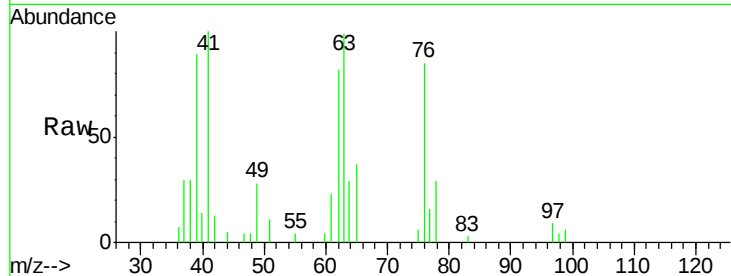
#45
 1,2-Dichloropropane
 Concen: 5.051 ug/l
 RT: 8.71 min Scan# 780
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 25767
 Ion Ratio Lower Upper
 63 100
 65 37.4 24.1 36.1#

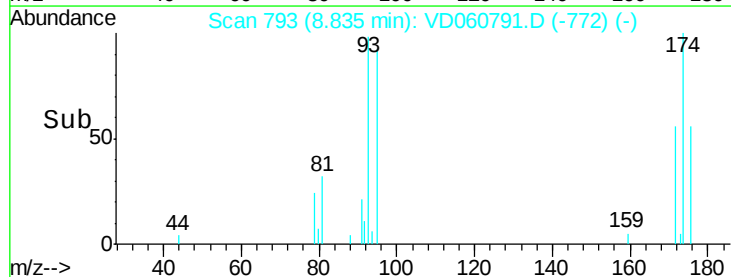
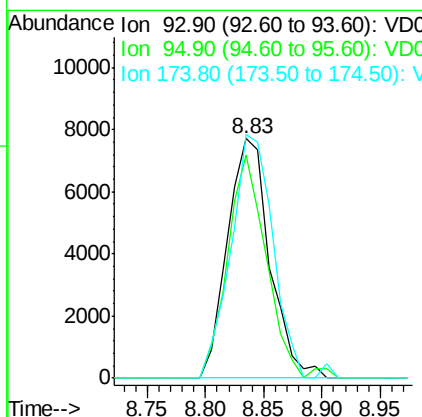
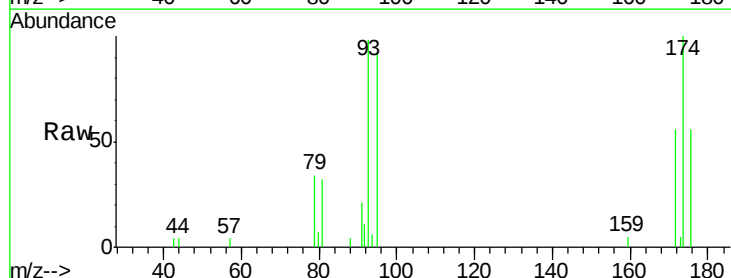
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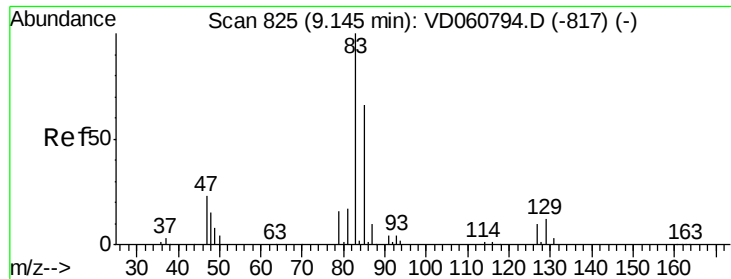
MMDadoda
 1/29/2019 4:55:26 PM



#46
 Dibromomethane
 Concen: 4.896 ug/l
 RT: 8.83 min Scan# 793
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion: 93 Resp: 19388
 Ion Ratio Lower Upper
 93 100
 95 93.2 65.8 98.8
 174 101.8 79.8 119.6





#47

Bromodichloromethane

Concen: 5.211 ug/l

RT: 9.15 min Scan# 825

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

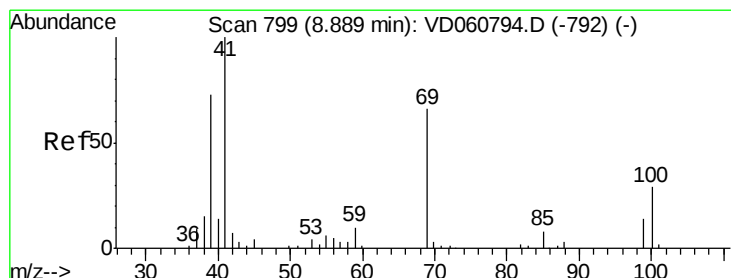
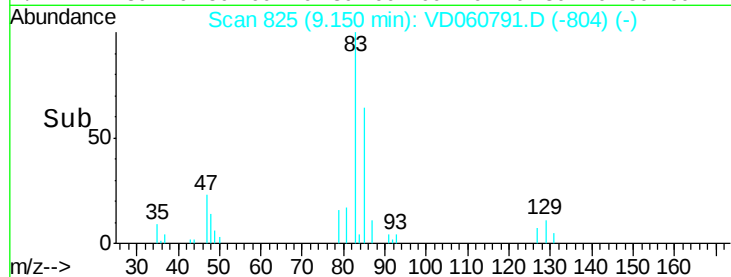
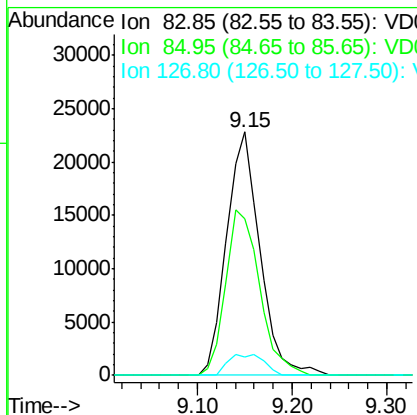
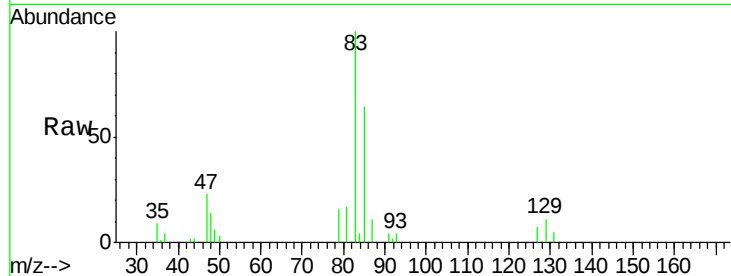
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	55702
Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.6	79.0
127	7.5	7.7	11.5#

Manual Integrations
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#48

Methyl methacrylate

Concen: 5.556 ug/l

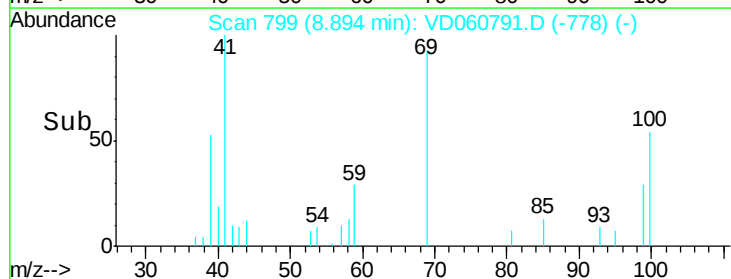
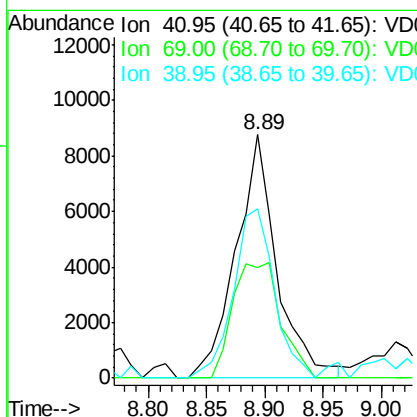
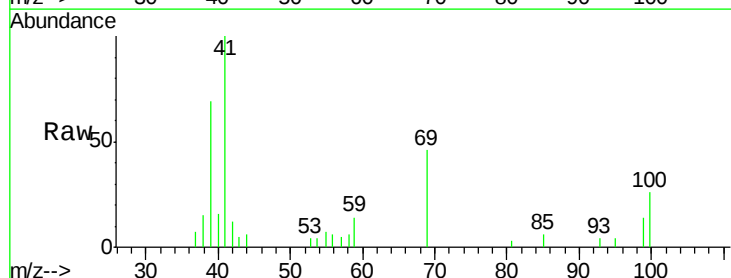
RT: 8.89 min Scan# 799

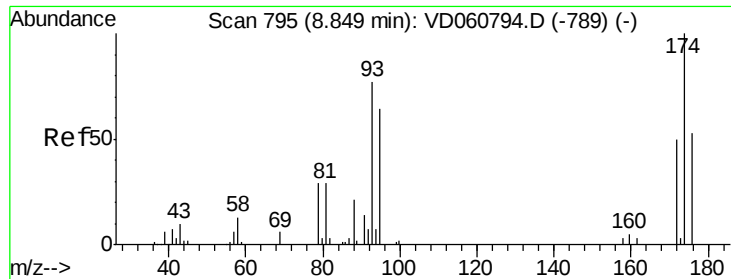
Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion:	41	Resp:	21299
Ion	Ratio	Lower	Upper
41	100		
69	45.5	52.5	78.7#
39	69.5	59.0	88.6





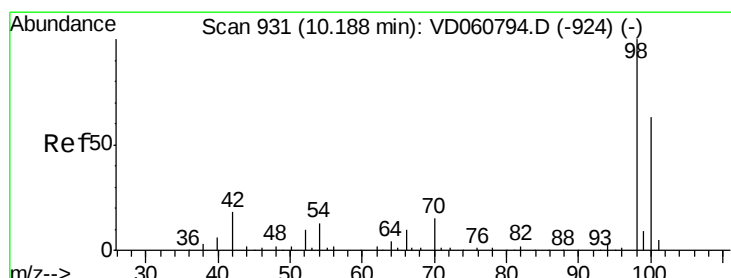
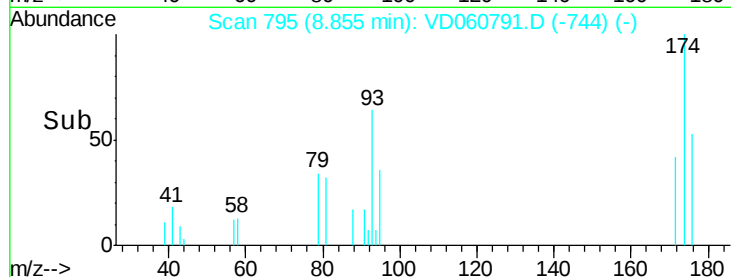
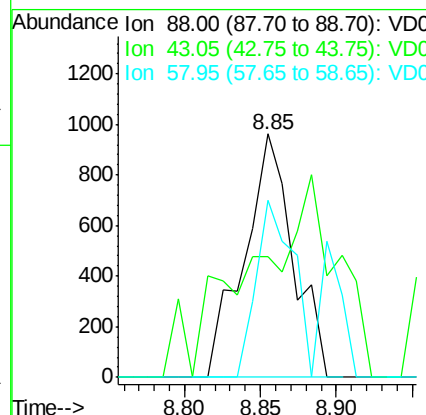
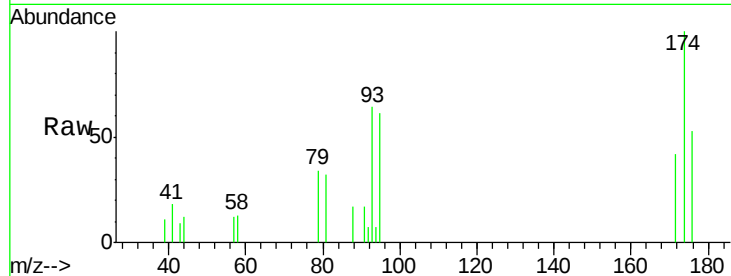
#49
1,4-Dioxane
Concen: 73.008 ug/l
RT: 8.85 min Scan# 795
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	49.6	40.9	61.3
58	72.9	52.2	78.4

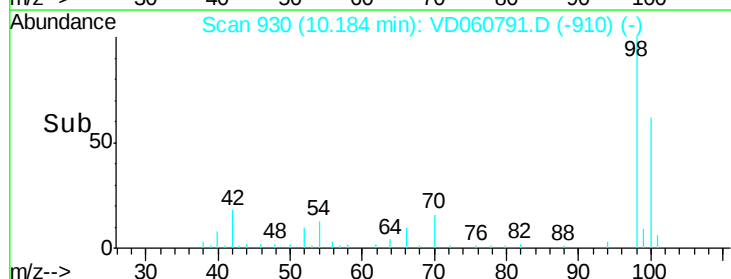
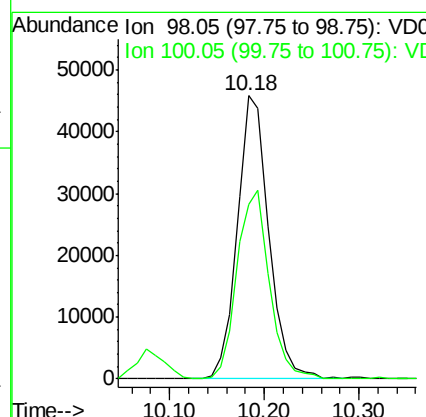
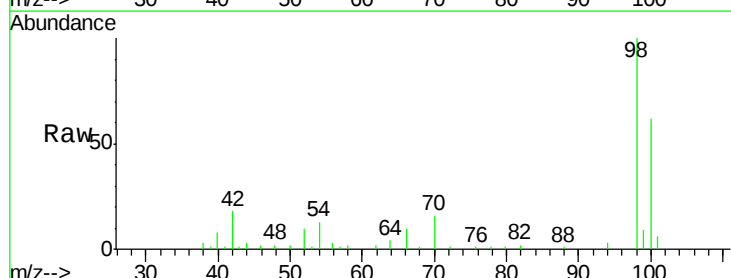
Manual Integrations
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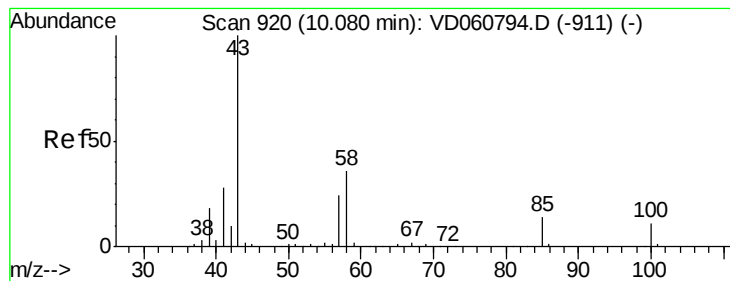
MMDadoda
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#50
Toluene-d8
Concen: 73.008 ug/l
RT: 10.18 min Scan# 930
Delta R.T. -0.00 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
98	100		
100	61.9	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 26.763 ug/l

RT: 10.09 min Scan# 920

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 96353

Ion Ratio Lower Upper

43 100

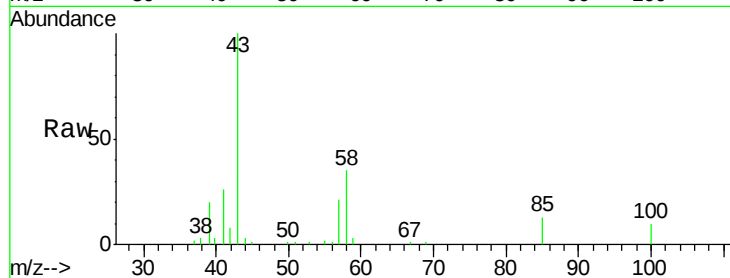
58 35.2 28.4 42.6

Manual Integrations

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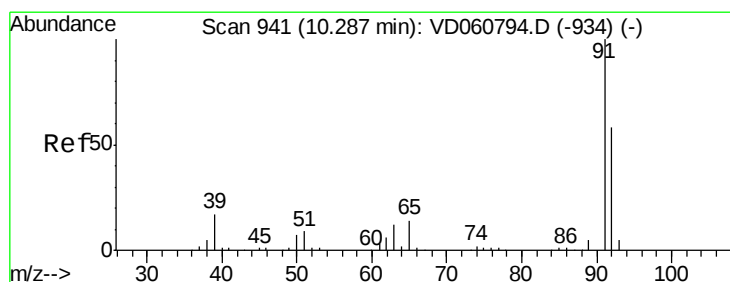
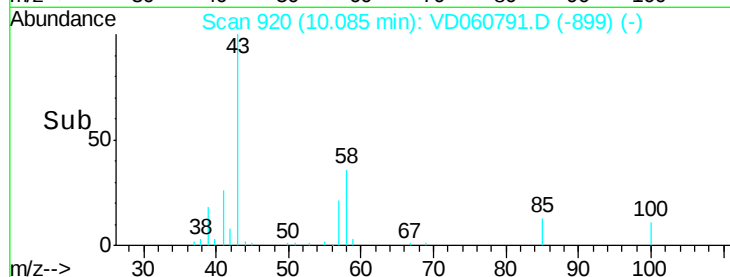
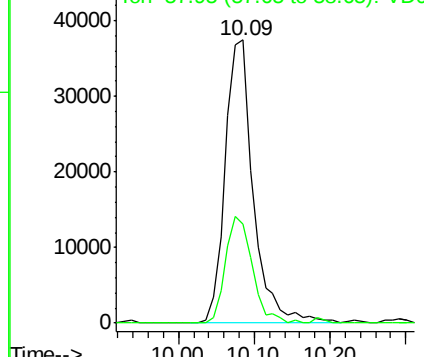
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 5.974 ug/l

RT: 10.29 min Scan# 941

Delta R.T. 0.01 min

Lab File: VD060791.D

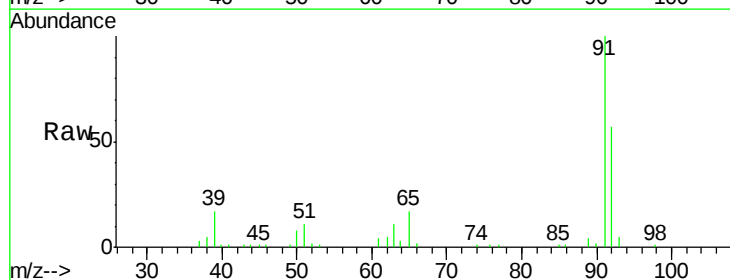
Acq: 28 Jan 2019 15:13

Tgt Ion: 92 Resp: 71415

Ion Ratio Lower Upper

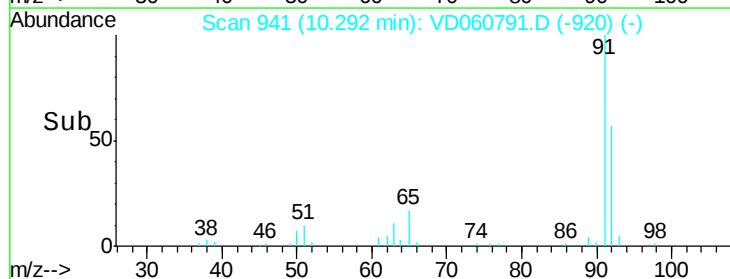
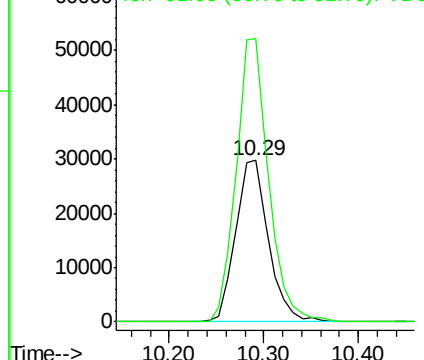
92 100

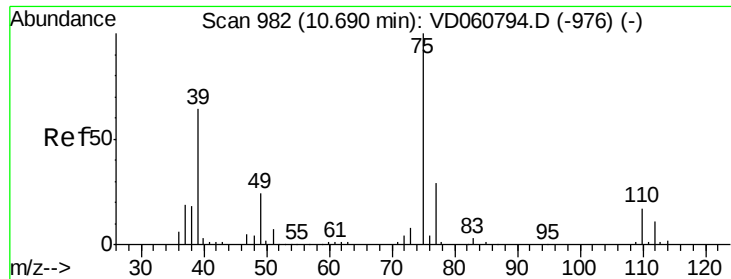
91 175.1 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 5.222 ug/l

RT: 10.70 min Scan# 982

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 49100

Ion Ratio Lower Upper

75 100

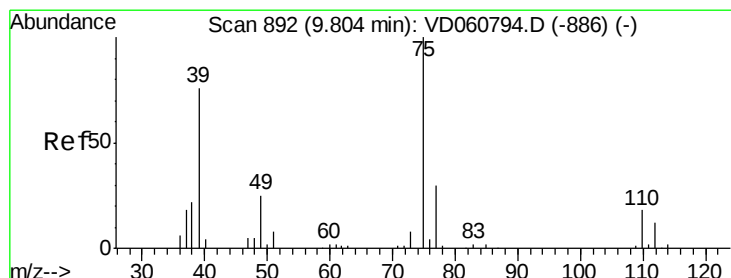
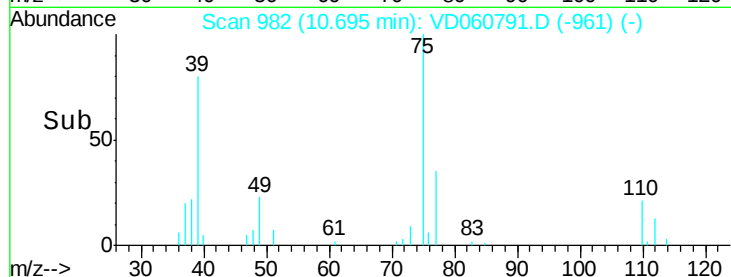
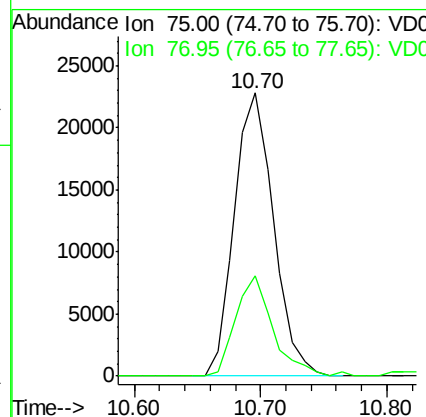
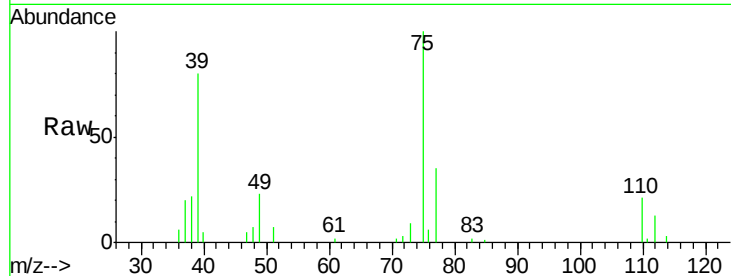
77 35.4 23.0 34.6#

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 5.216 ug/l

RT: 9.82 min Scan# 893

Delta R.T. 0.02 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

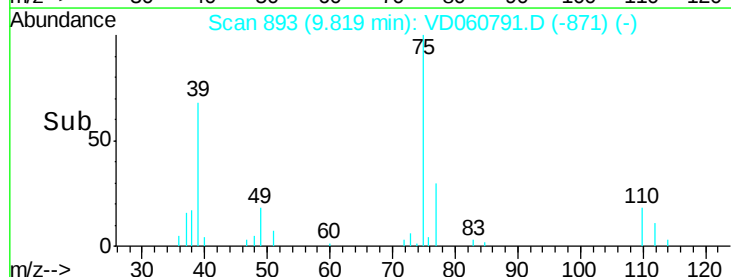
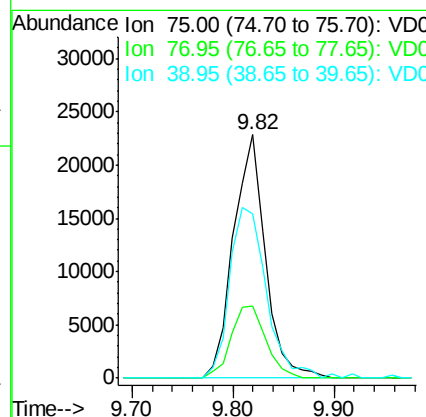
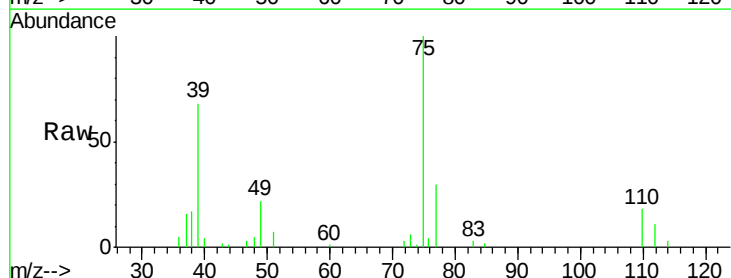
Tgt Ion: 75 Resp: 50291

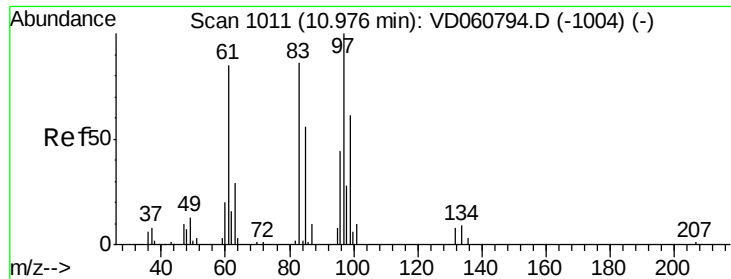
Ion Ratio Lower Upper

75 100

77 29.5 23.9 35.9

39 67.7 60.4 90.6





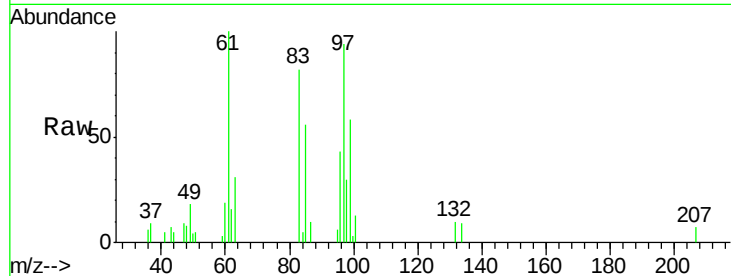
#55
1,1,2-Trichloroethane
Concen: 5.115 ug/l
RT: 10.97 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

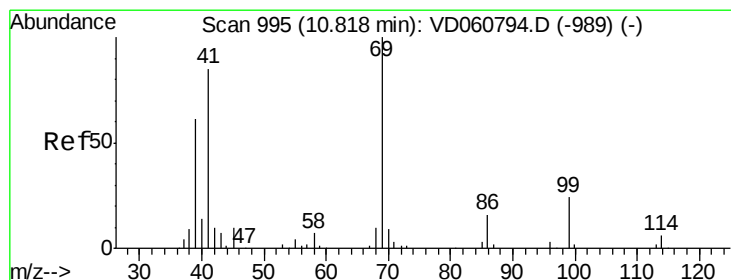
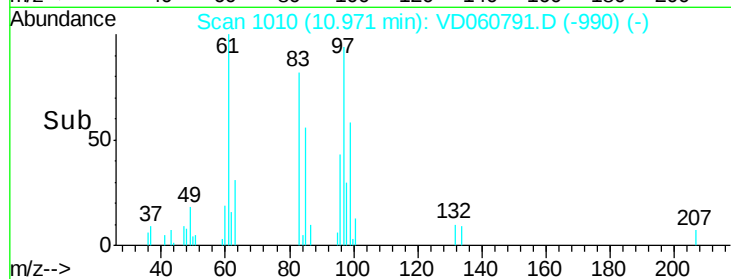
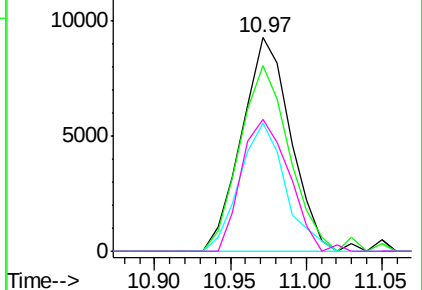
Tot Ion:	97	Resp:	20849
Ion	Ratio	Lower	Upper
97	100		
83	86.8	68.5	102.7
85	59.7	45.0	67.6
99	61.8	49.0	73.4

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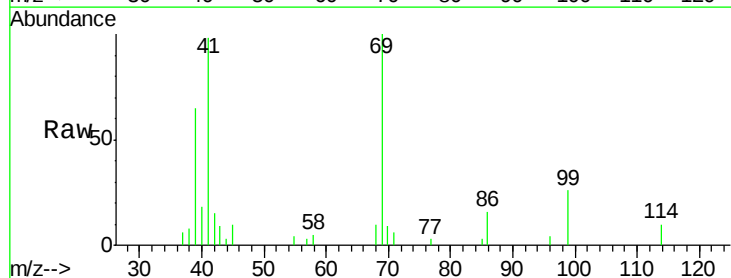


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

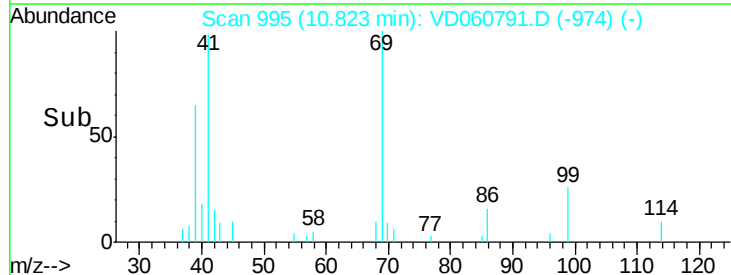
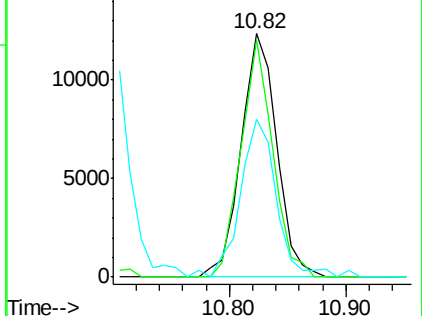


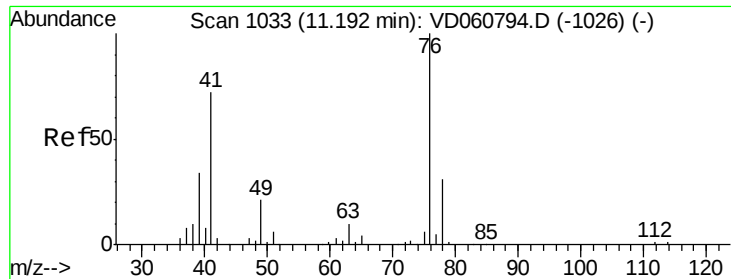
#56
Ethyl methacrylate
Concen: 5.298 ug/l
RT: 10.82 min Scan# 995
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion:	69	Resp:	26158
Ion	Ratio	Lower	Upper
69	100		
41	97.5	68.2	102.2
39	65.0	49.4	74.0



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC





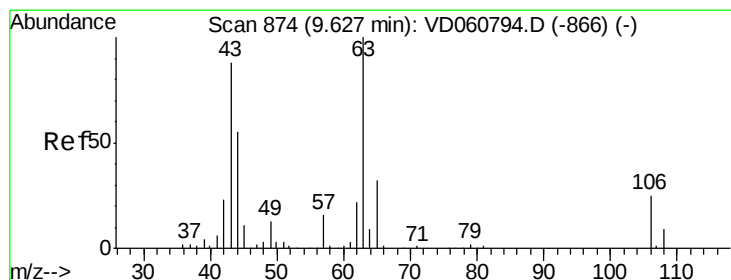
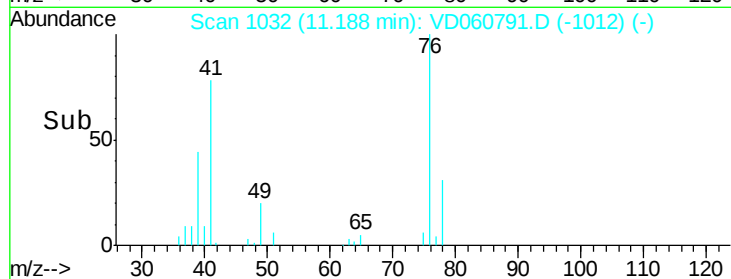
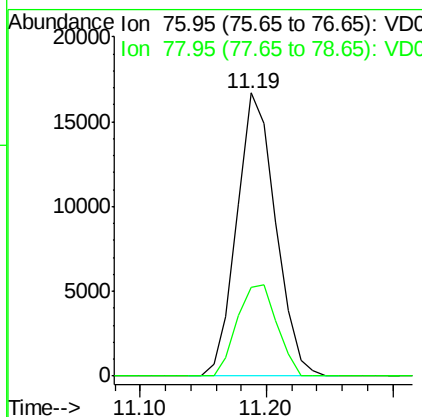
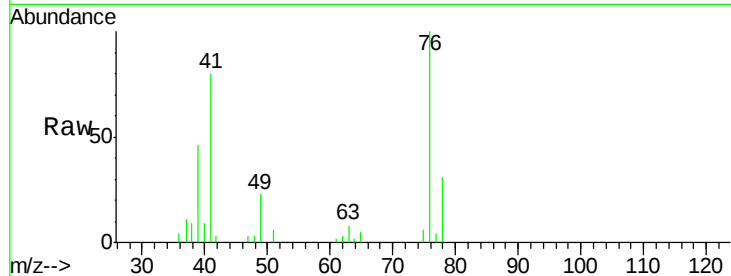
#57
 1,3-Dichloropropane
 Concen: 5.095 ug/l
 RT: 11.19 min Scan# 1032
 Delta R.T. -0.00 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion: 76 Resp: 35488
 Ion Ratio Lower Upper
 76 100
 78 31.4 24.5 36.7

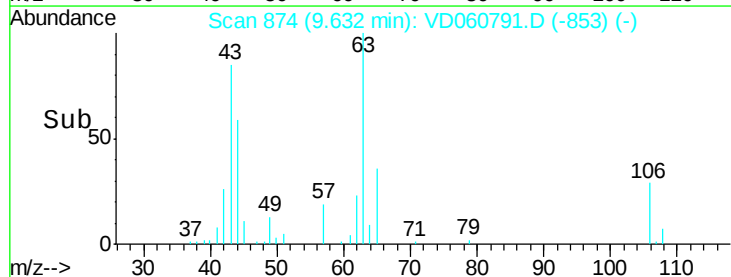
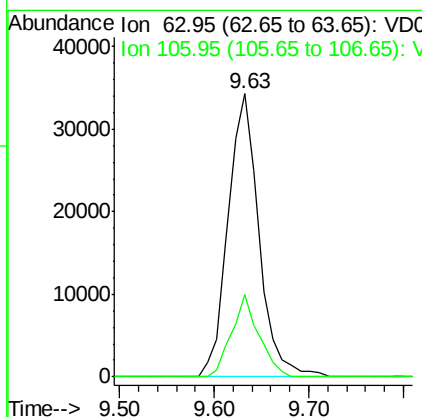
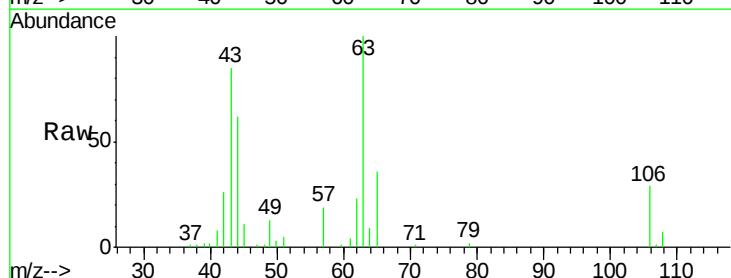
Manual Integrations
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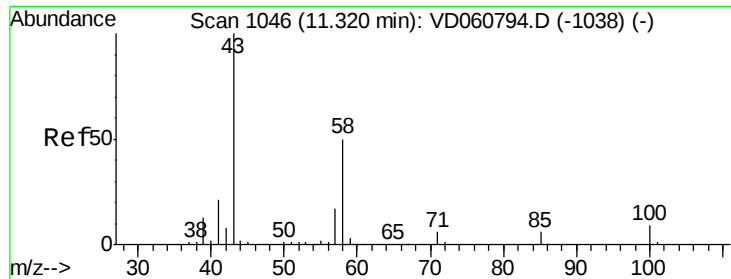
MMDadoda
 1/29/2019 4:55:26 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 29.851 ug/l
 RT: 9.63 min Scan# 874
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion: 63 Resp: 77331
 Ion Ratio Lower Upper
 63 100
 106 29.0 19.9 29.9





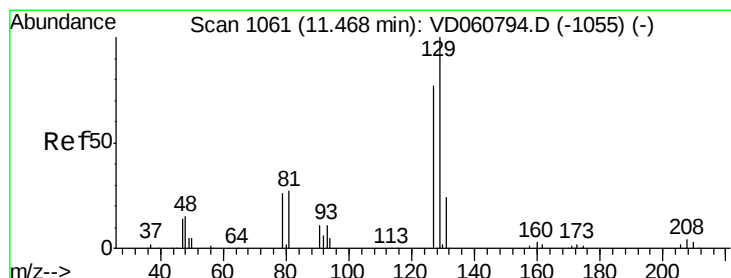
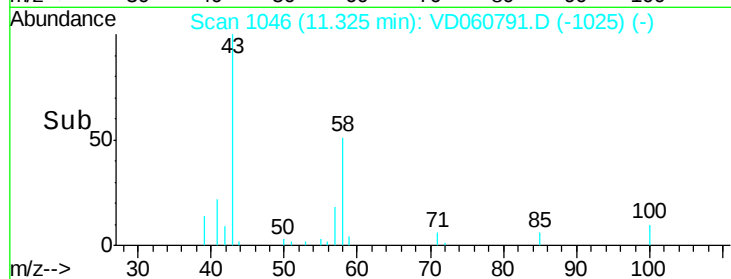
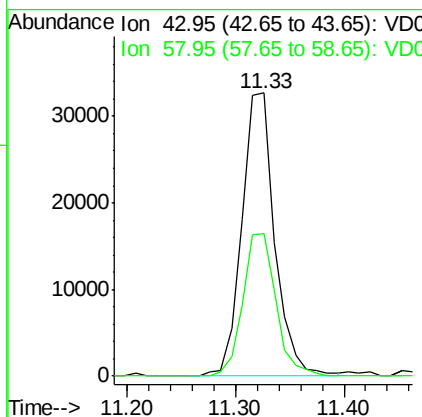
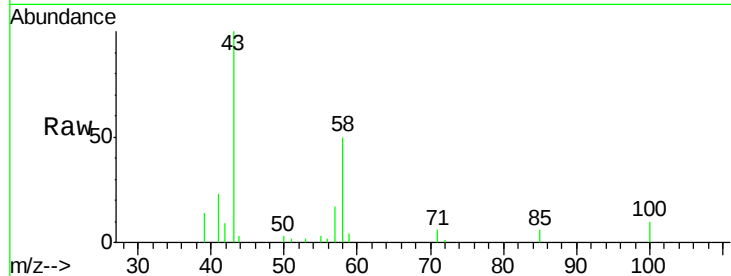
#59
2-Hexanone
Concen: 25.442 ug/l
RT: 11.33 min Scan# 1046
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 68872
Ion Ratio Lower Upper
43 100
58 50.2 25.0 75.0

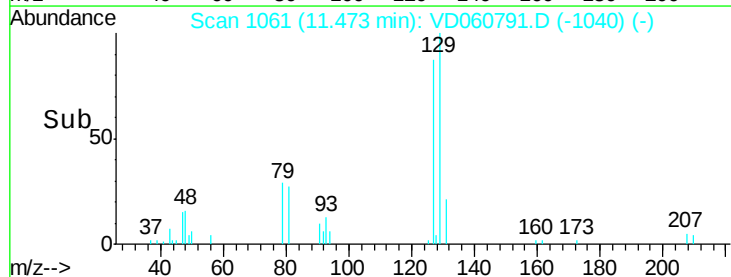
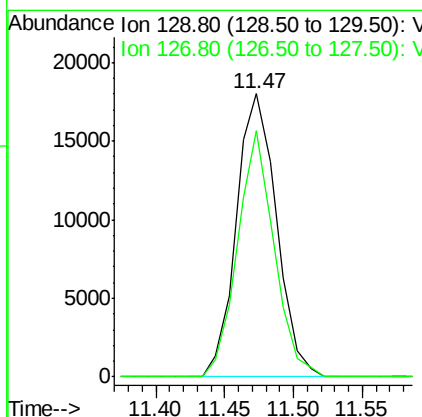
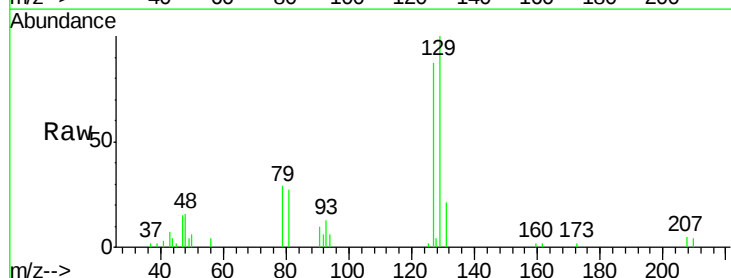
Manual Integrations
APPROVED

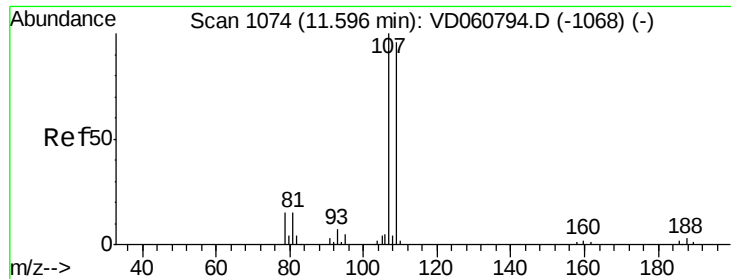
MMDadoda
1/29/2019 4:55:26 PM



#60
Dibromochloromethane
Concen: 4.980 ug/l
RT: 11.47 min Scan# 1061
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion: 129 Resp: 36491
Ion Ratio Lower Upper
129 100
127 87.1 38.6 115.7





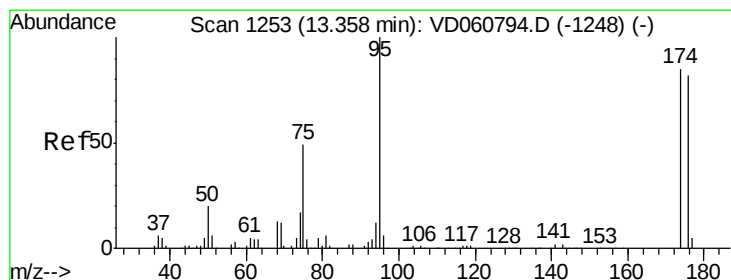
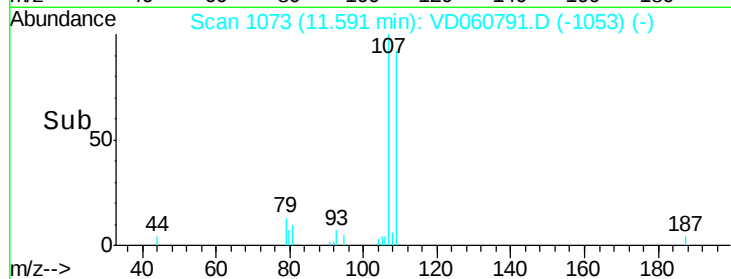
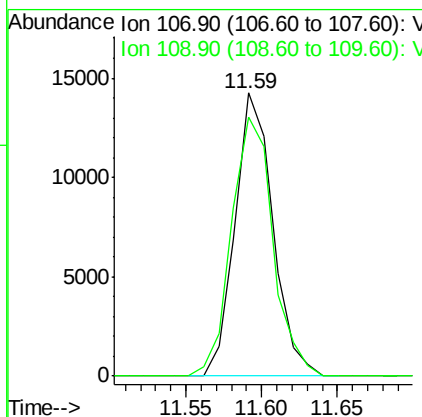
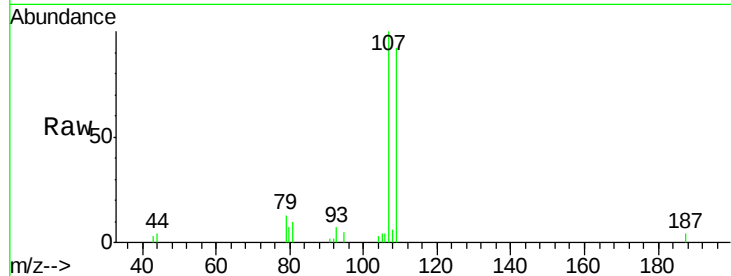
#61
 1,2-Dibromoethane
 Concen: 5.150 ug/l
 RT: 11.59 min Scan# 1073
 Delta R.T. -0.00 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion: 107 Resp: 24721
 Ion Ratio Lower Upper
 107 100
 109 91.5 76.6 114.8

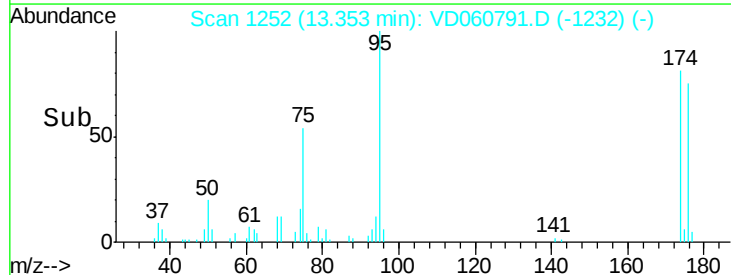
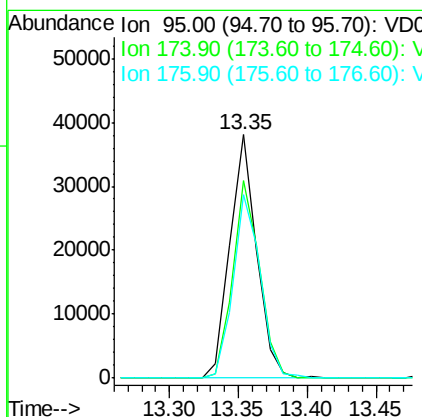
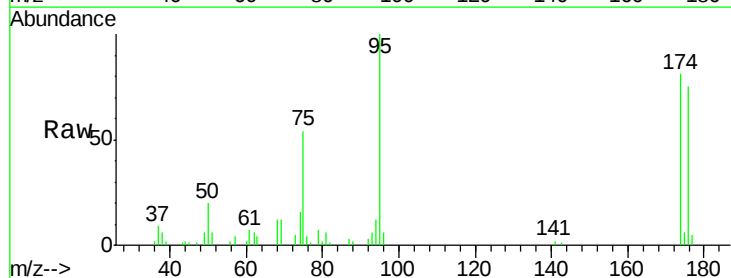
Manual Integrations
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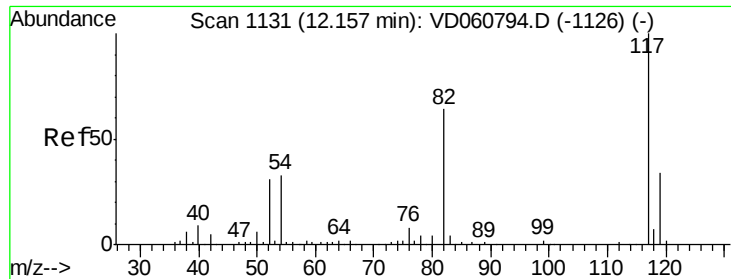
MMDadoda
 1/29/2019 4:55:26 PM



#62
 4-Bromofluorobenzene
 Concen: 5.150 ug/l
 RT: 13.35 min Scan# 1252
 Delta R.T. -0.00 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion: 95 Resp: 51331
 Ion Ratio Lower Upper
 95 100
 174 81.1 0.0 169.6
 176 75.2 0.0 163.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.16 min Scan# 1131

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion:117 Resp: 671848

Ion Ratio Lower Upper

117 100

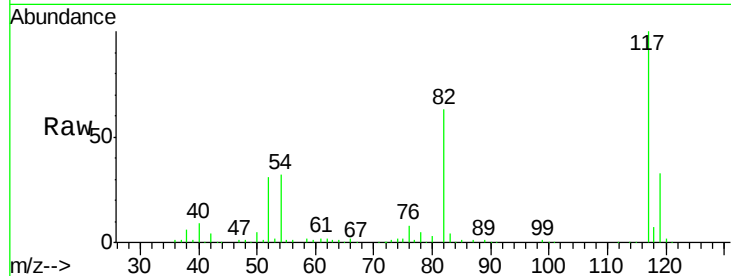
82 63.5 51.5 77.3

119 33.3 27.1 40.7

Manual Integrations
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MMDadoda

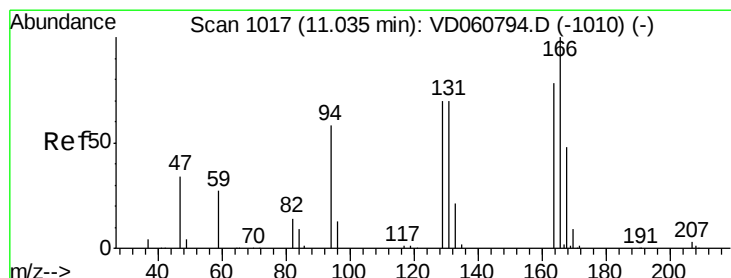
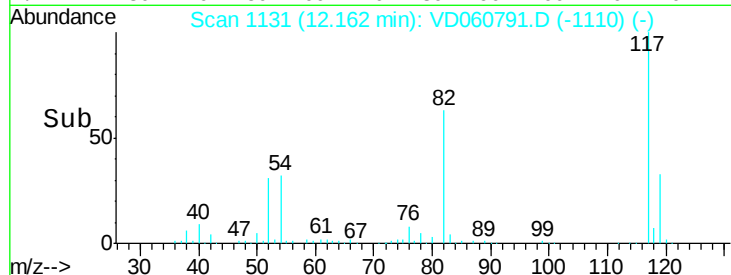
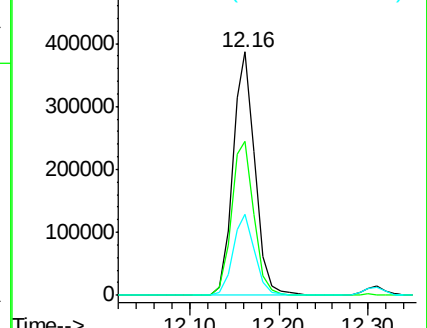
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Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 4.944 ug/l

RT: 11.04 min Scan# 1017

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion:164 Resp: 30484

Ion Ratio Lower Upper

164 100

166 126.6 102.6 154.0

129 93.7 72.3 108.5

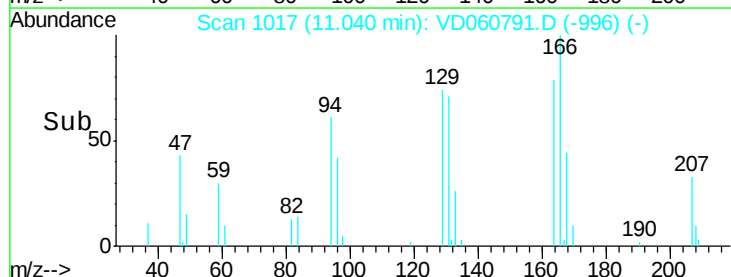
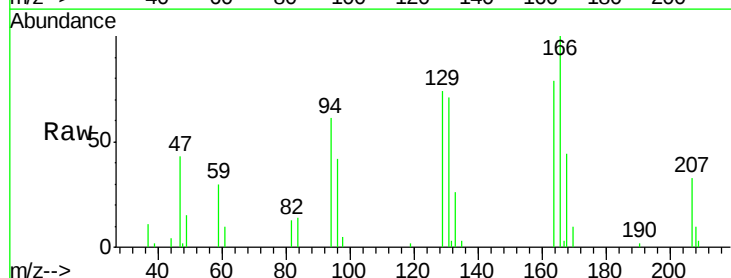
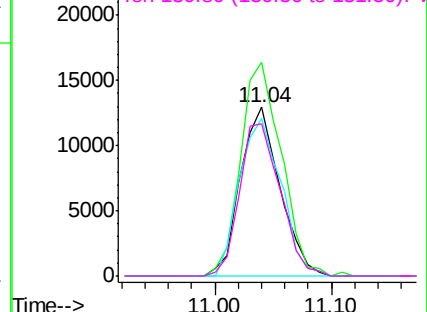
131 90.5 72.1 108.1

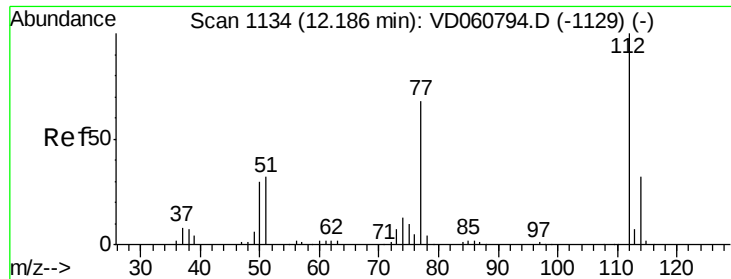
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





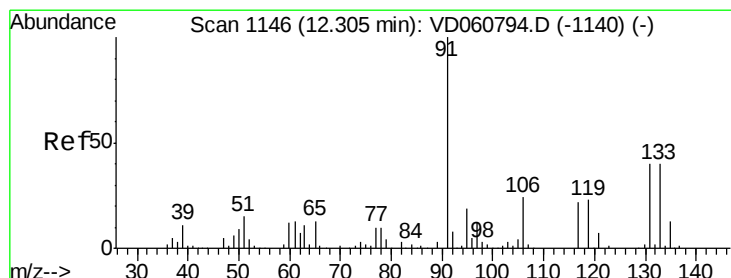
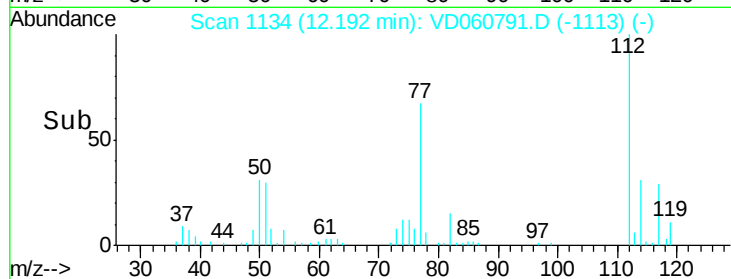
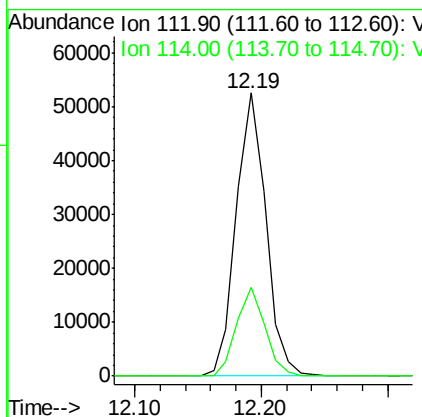
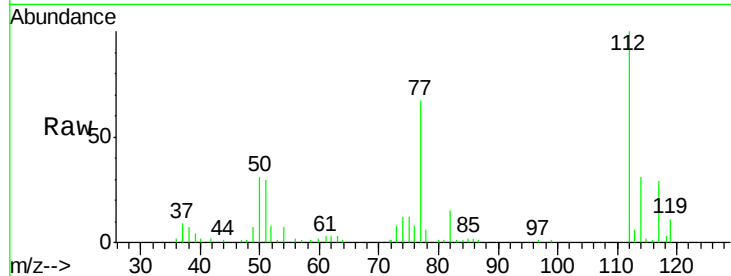
#65
Chlorobenzene
Concen: 5.581 ug/l
RT: 12.19 min Scan# 1134
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 85685
Ion Ratio Lower Upper
112 100
114 31.3 25.2 37.8

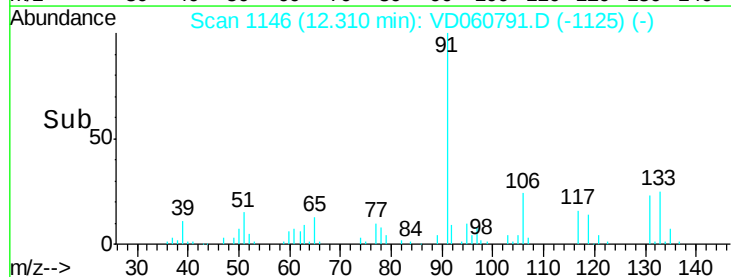
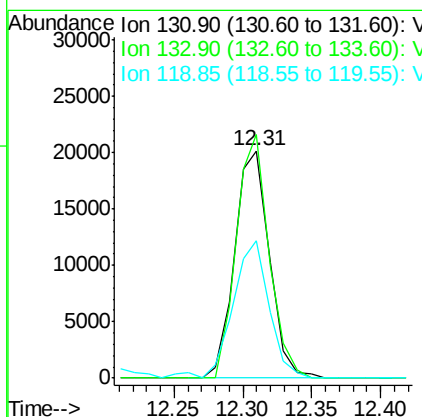
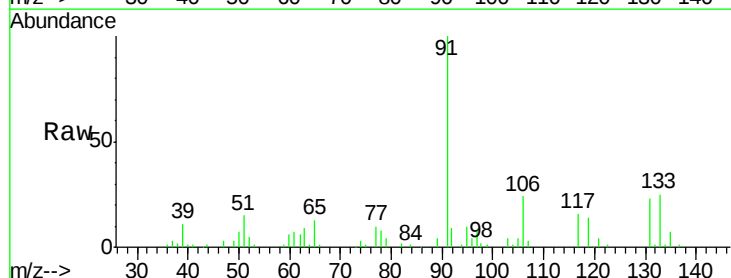
Manual Integrations
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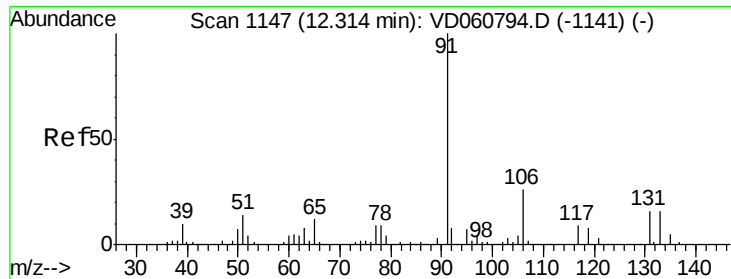
MMDadoda
1/29/2019 4:55:26 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.352 ug/l
RT: 12.31 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion:131 Resp: 35300
Ion Ratio Lower Upper
131 100
133 107.3 49.9 149.7
119 60.7 28.5 85.5





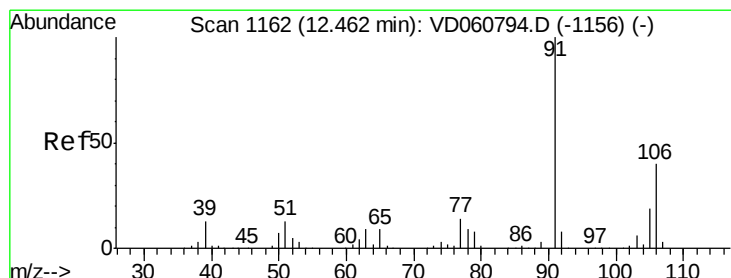
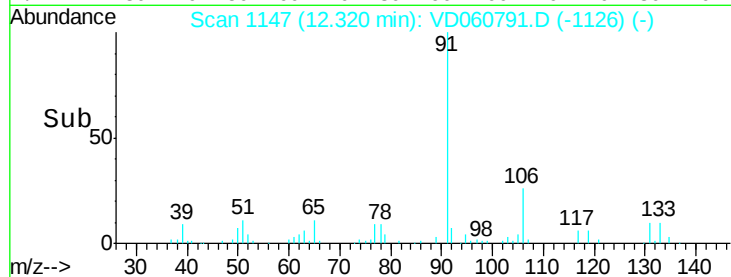
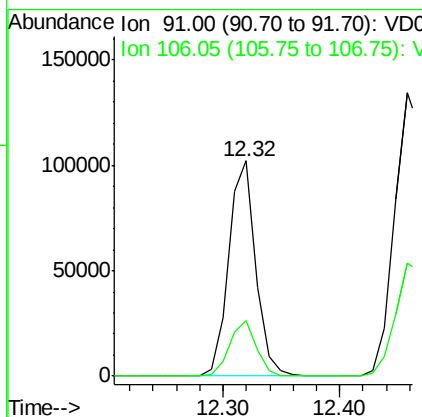
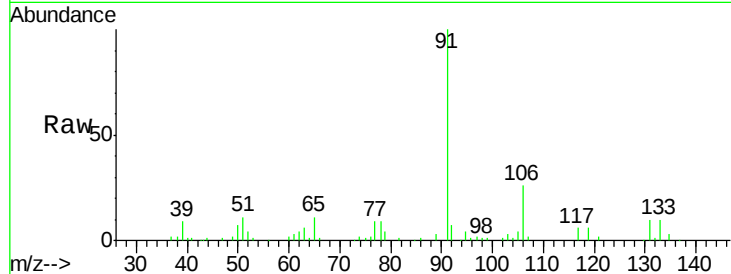
#67
Ethyl Benzene
Concen: 5.921 ug/l
RT: 12.32 min Scan# 1147
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 163461
Ion Ratio Lower Upper
91 100
106 25.9 21.0 31.6

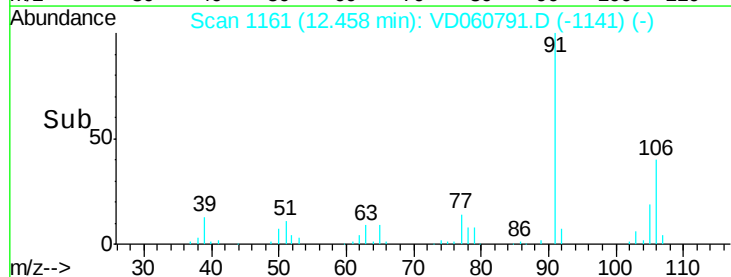
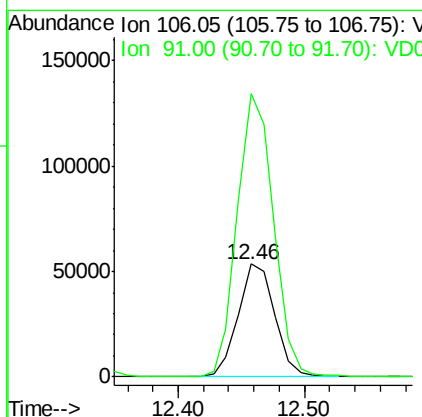
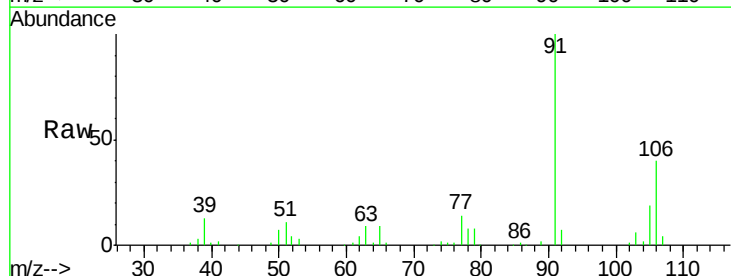
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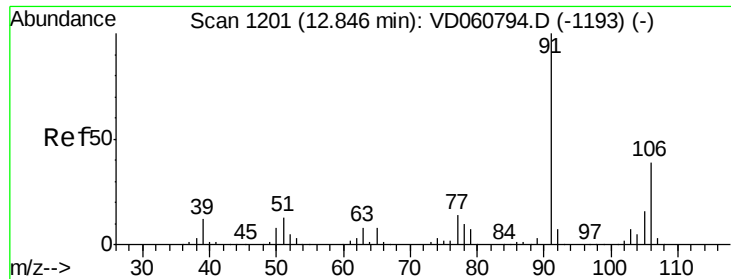
MMDadoda
1/29/2019 4:55:26 PM



#68
m/p-Xylenes
Concen: 11.931 ug/l
RT: 12.46 min Scan# 1161
Delta R.T. -0.00 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion: 106 Resp: 107162
Ion Ratio Lower Upper
106 100
91 251.1 200.5 300.7





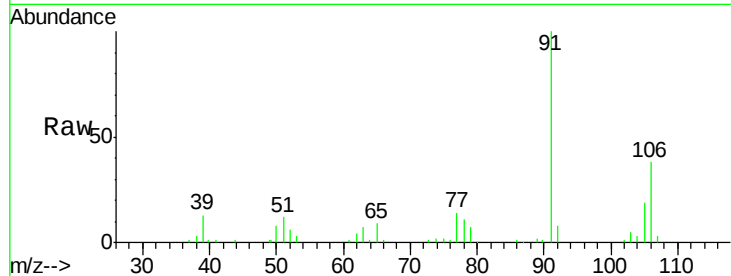
#69
o-Xylene
Concen: 5.673 ug/l
RT: 12.84 min Scan# 1200
Delta R.T. -0.00 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

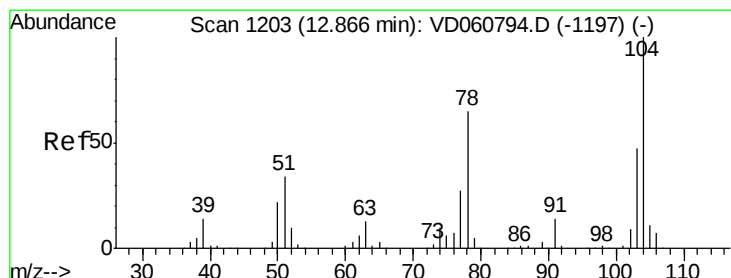
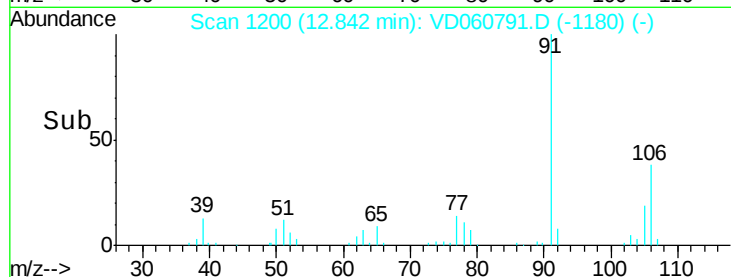
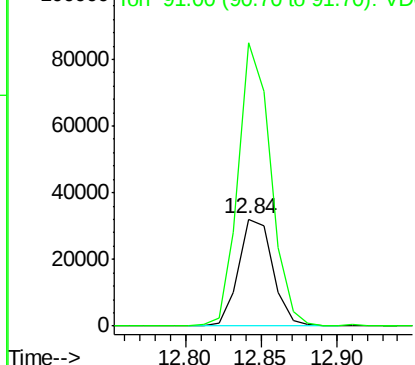
Tot Ion:106 Resp: 50437
Ion Ratio Lower Upper
106 100
91 264.3 127.6 382.7

Manual Integrations
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1/29/2019 4:55:26 PM

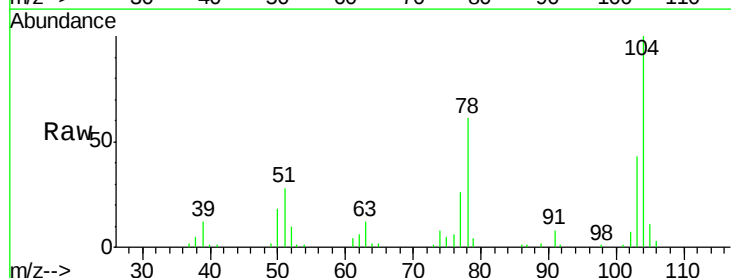


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

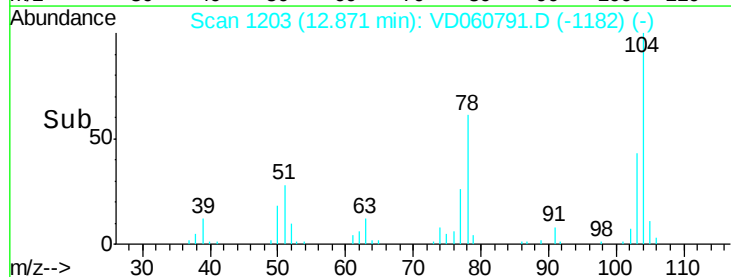
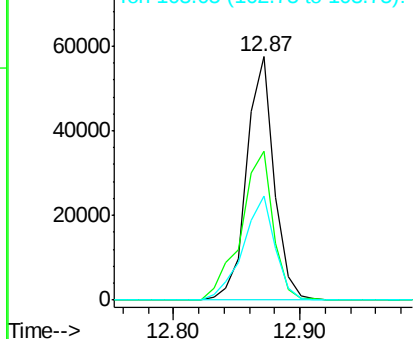


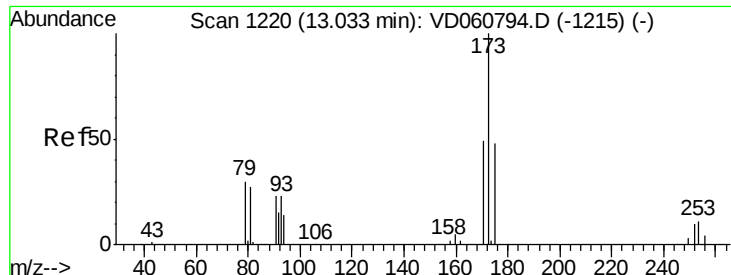
#70
Styrene
Concen: 5.791 ug/l
RT: 12.87 min Scan# 1203
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion:104 Resp: 86324
Ion Ratio Lower Upper
104 100
78 61.0 52.0 78.0
103 42.8 37.7 56.5



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





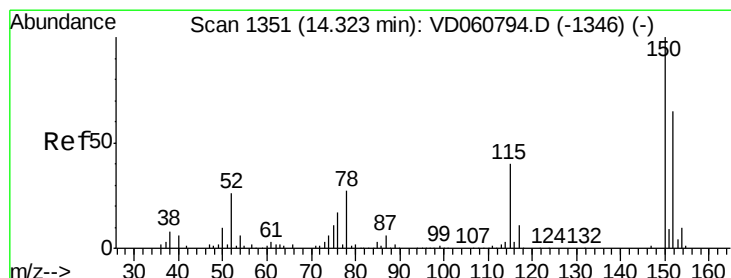
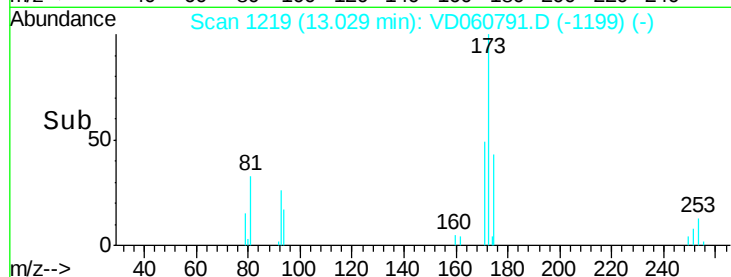
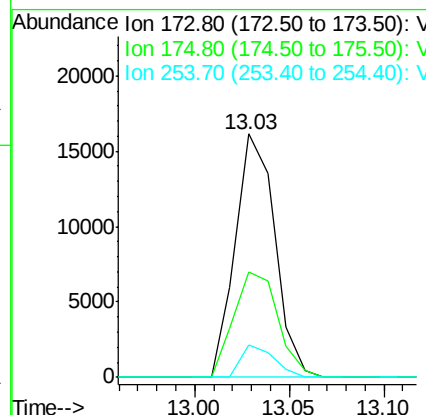
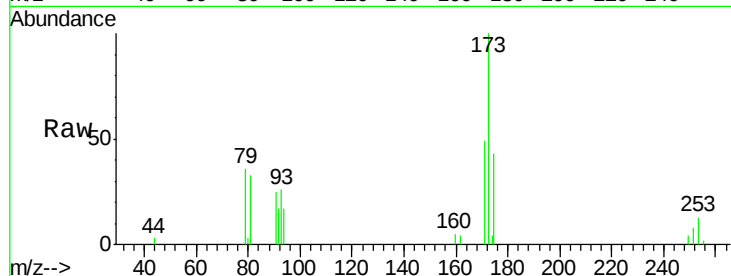
#71
Bromoform
Concen: 4.687 ug/l
RT: 13.03 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	43.1	24.1	72.4
254	13.2	9.1	13.7

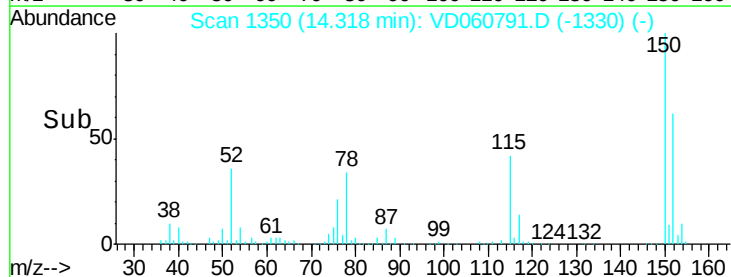
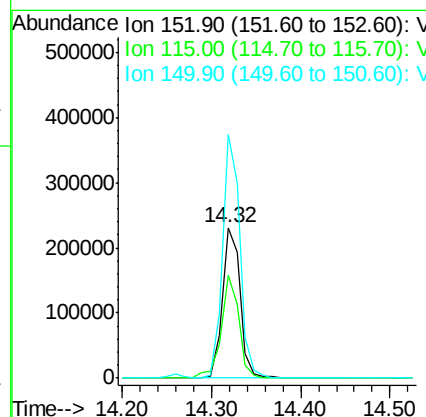
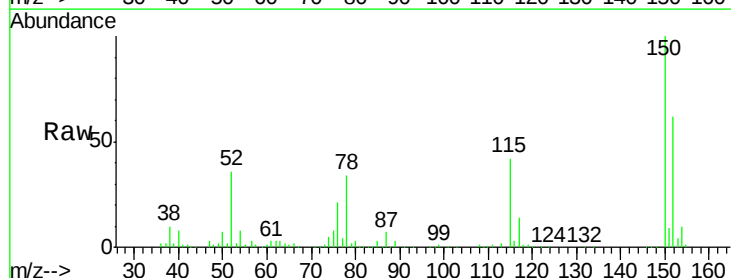
Manual Integrations
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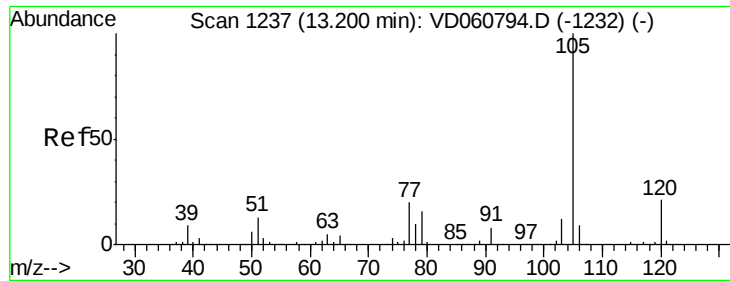
MMDadoda
1/29/2019 4:55:26 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	68.5	31.6	95.0
150	162.0	0.0	317.6





#73

Isopropylbenzene

Concen: 6.080 ug/l

RT: 13.21 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 155936

Ion Ratio Lower Upper

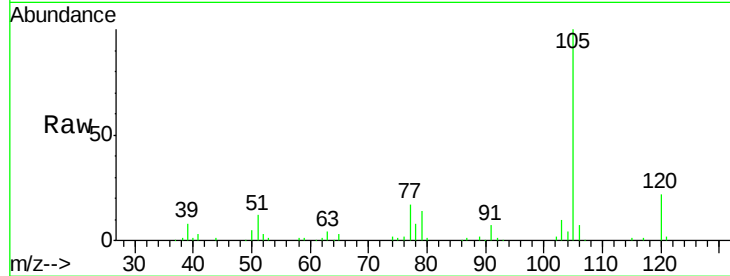
105 100

120 22.4 10.7 32.1

Manual Integrations
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

120000

100000

80000

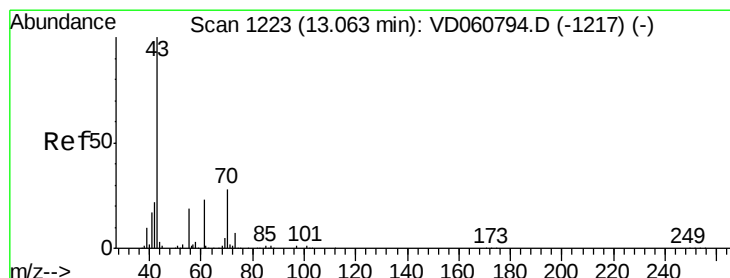
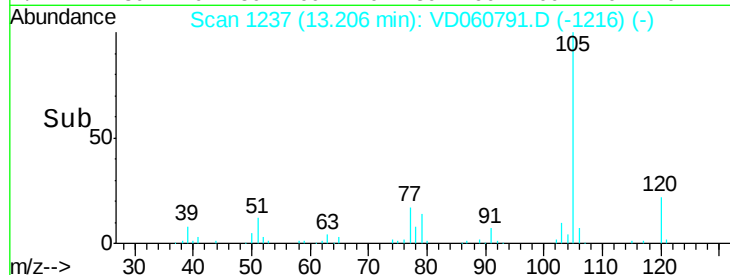
60000

40000

20000

0

Time--> 13.10 13.20 13.30



#74

N-ethyl acetate

Concen: 5.203 ug/l

RT: 13.07 min Scan# 1223

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion: 43 Resp: 41027

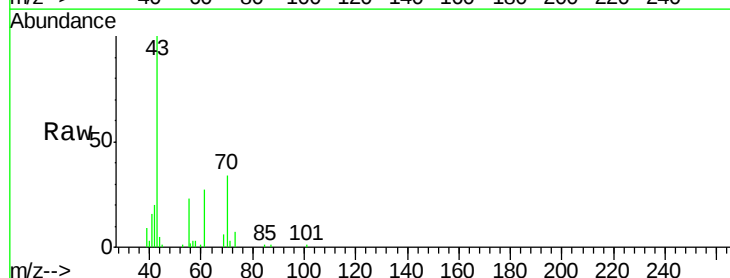
Ion Ratio Lower Upper

43 100

70 33.6 22.2 33.4#

55 22.9 15.5 23.3

61 26.9 18.4 27.6



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

40000

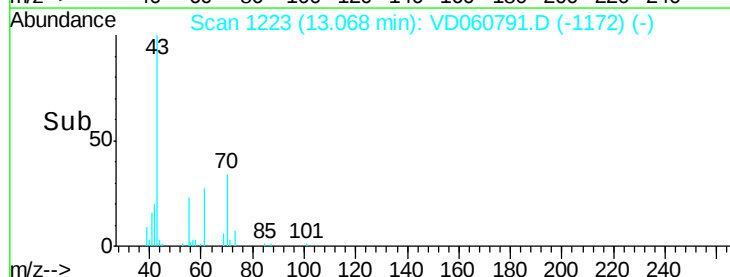
30000

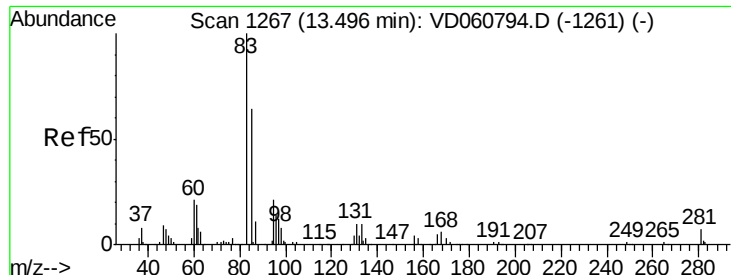
20000

10000

0

Time--> 13.00 13.05 13.10 13.15





#75

1,1,2,2-Tetrachloroethane

Concen: 5.352 ug/l

RT: 13.50 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

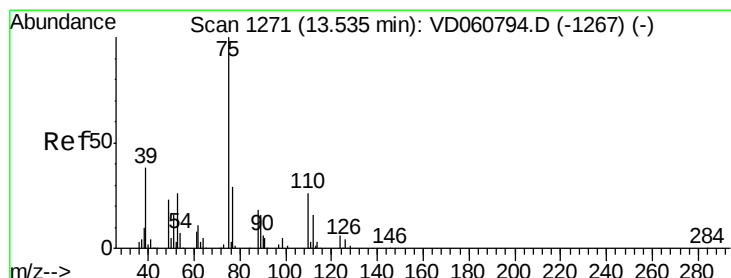
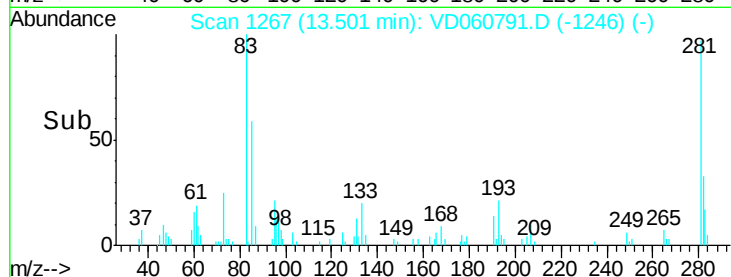
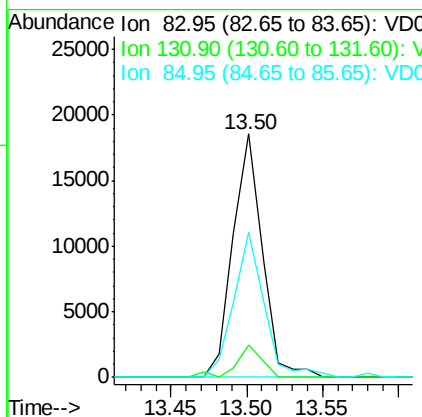
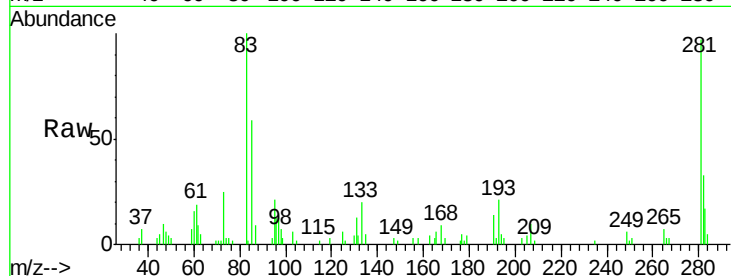
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	24994
Ion Ratio	Lower	Upper	
83	100		
131	13.4	5.0	15.0
85	59.4	31.8	95.4

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 5.158 ug/l

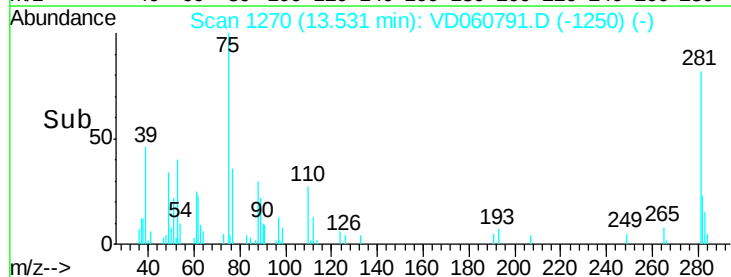
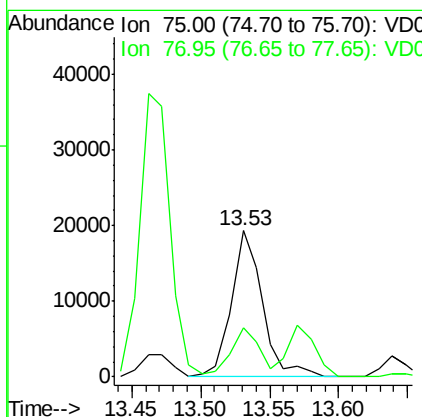
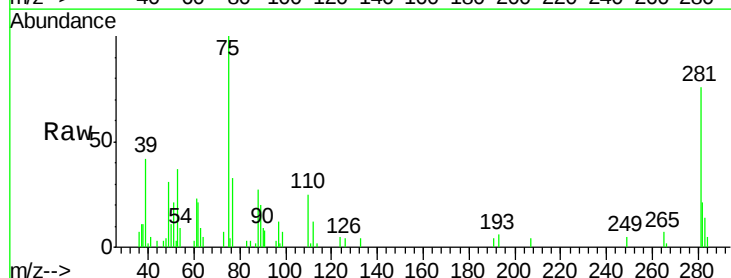
RT: 13.53 min Scan# 1270

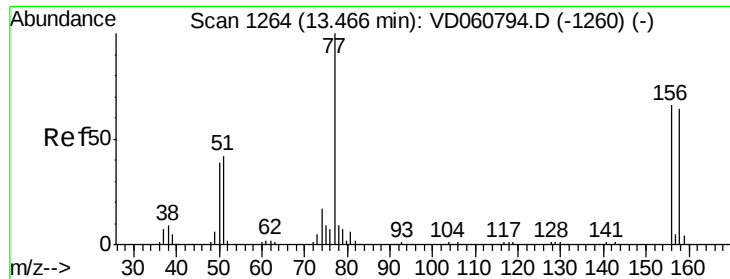
Delta R.T. -0.00 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion:	75	Resp:	30428
Ion Ratio	Lower	Upper	
75	100		
77	33.4	15.9	47.7





#77

Bromobenzene

Concen: 5.662 ug/l

RT: 13.47 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

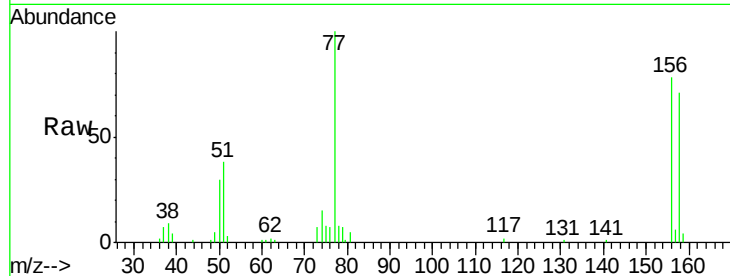
ClientSampleId :

VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	129.0	76.0	228.0	
158	91.5	48.4	145.0	

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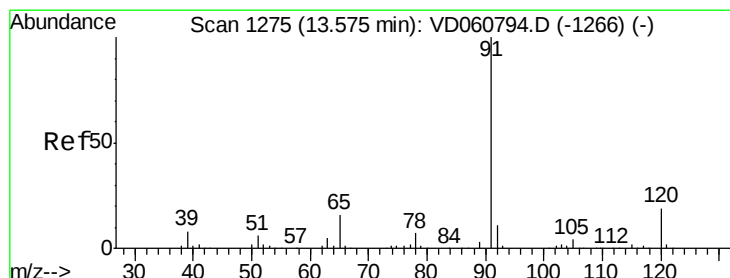
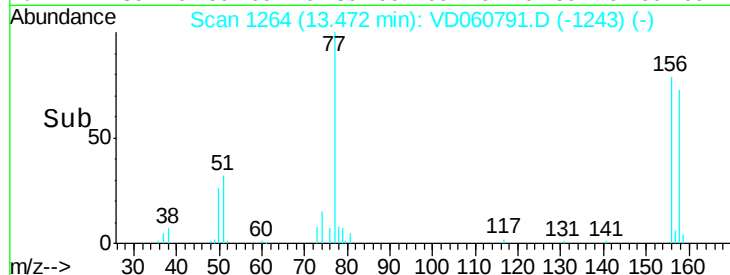
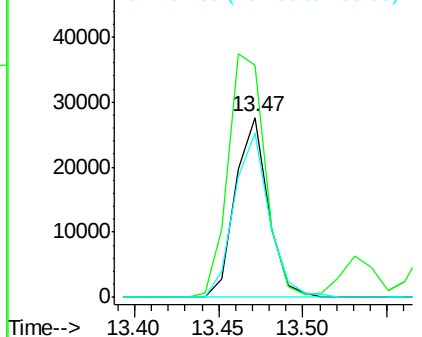
MMDadoda
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 5.628 ug/l

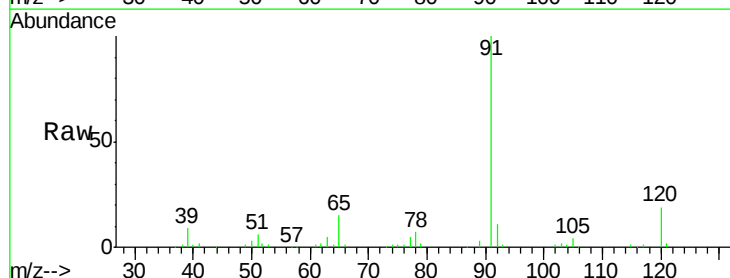
RT: 13.57 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VD060791.D

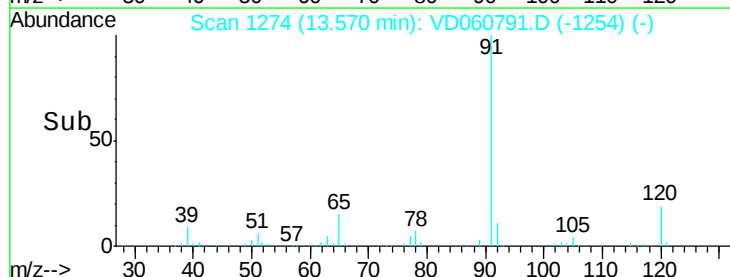
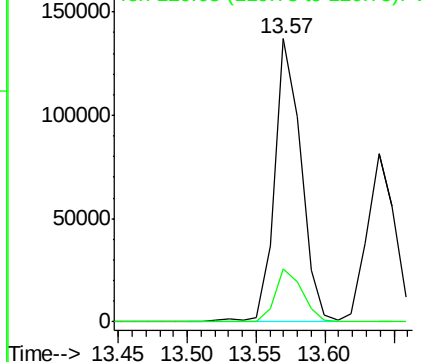
Acq: 28 Jan 2019 15:13

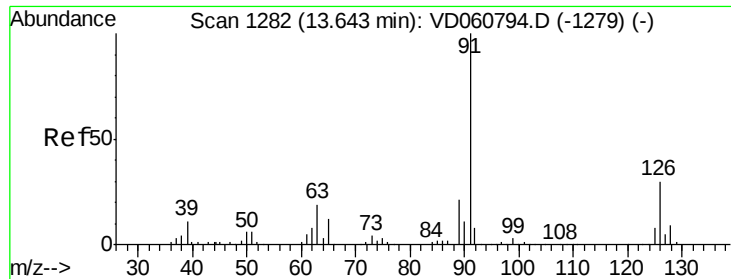
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	18.7	9.7	28.9	



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 5.865 ug/l

RT: 13.64 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 115186

Ion Ratio Lower Upper

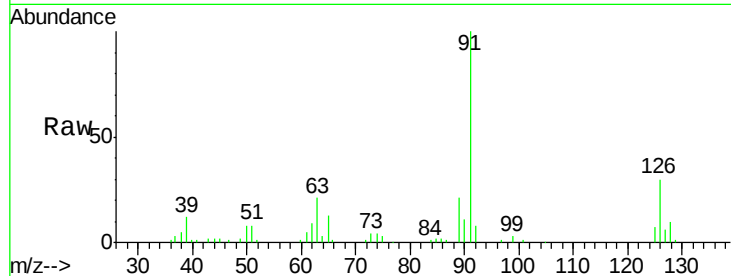
91 100

126 30.4 14.7 44.1

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Abundance Ion 91.00 (90.70 to 91.70): VD060791.D (-1279) (-)

Ion 125.95 (125.65 to 126.65): VD060791.D (-1279) (-)

150000

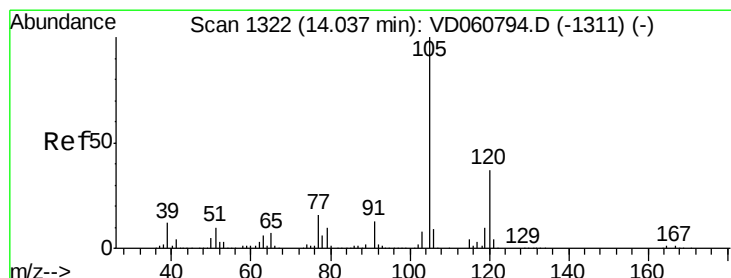
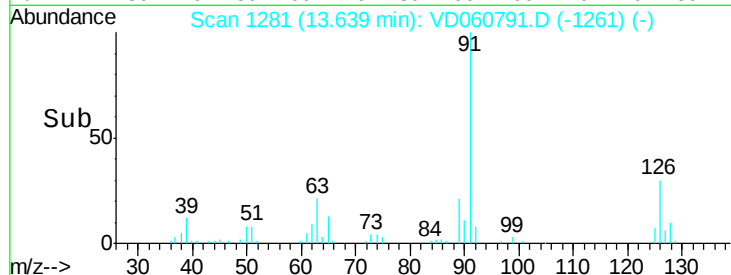
100000

50000

0

13.60 13.65 13.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 5.878 ug/l

RT: 14.04 min Scan# 1322

Delta R.T. 0.01 min

Lab File: VD060791.D

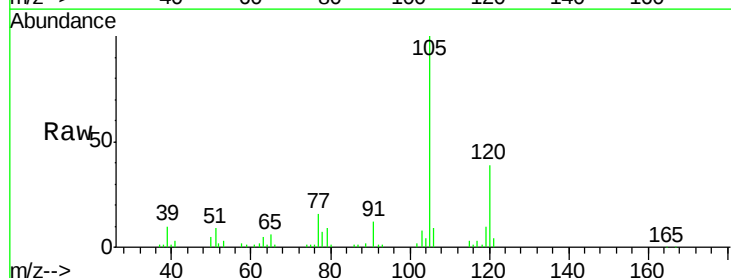
Acq: 28 Jan 2019 15:13

Tgt Ion: 105 Resp: 129779

Ion Ratio Lower Upper

105 100

120 38.9 18.4 55.2



Abundance Ion 105.05 (104.75 to 105.75): VD060791.D (-1301) (-)

Ion 120.05 (119.75 to 120.75): VD060791.D (-1301) (-)

100000

80000

60000

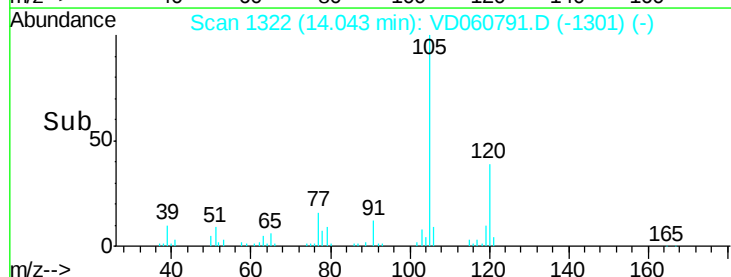
40000

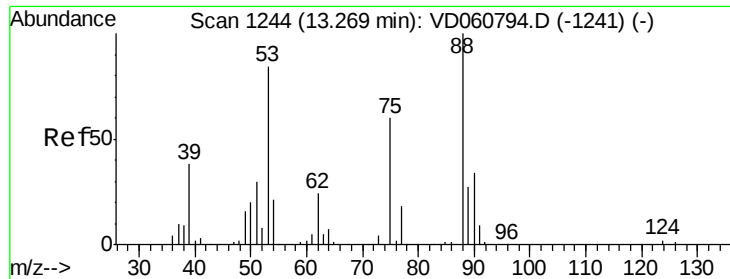
20000

0

13.90 14.00 14.10

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 4.764 ug/l

RT: 13.27 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 7327

Ion Ratio Lower Upper

75 100

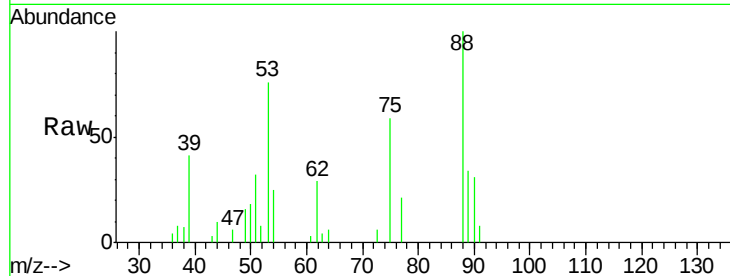
53 127.2 111.6 167.4

89 56.9 35.9 53.9#

Manual Integrations
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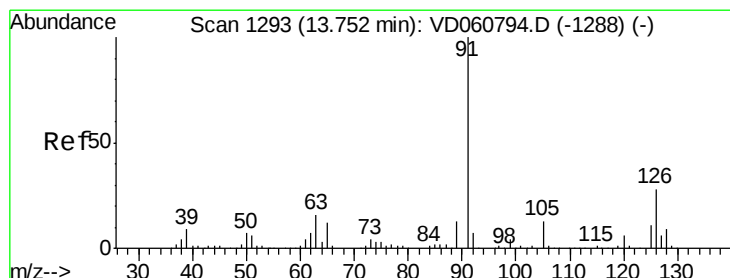
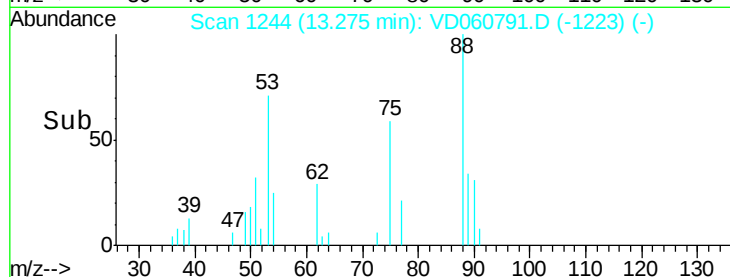
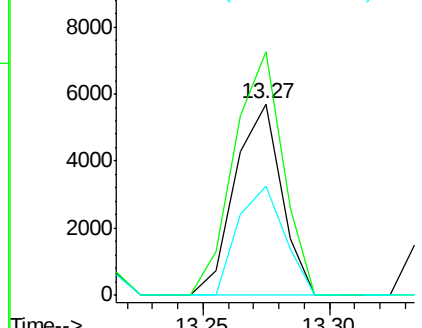
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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 5.538 ug/l

RT: 13.75 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VD060791.D

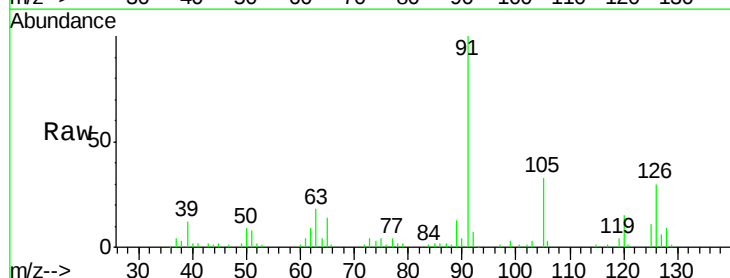
Acq: 28 Jan 2019 15:13

Tgt Ion: 91 Resp: 120865

Ion Ratio Lower Upper

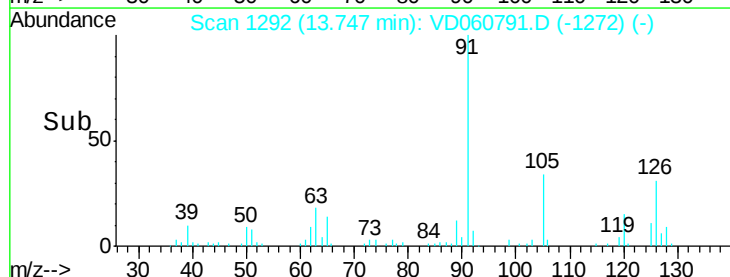
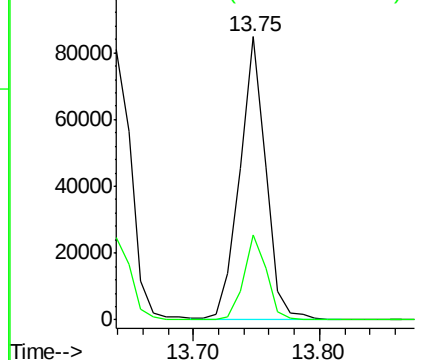
91 100

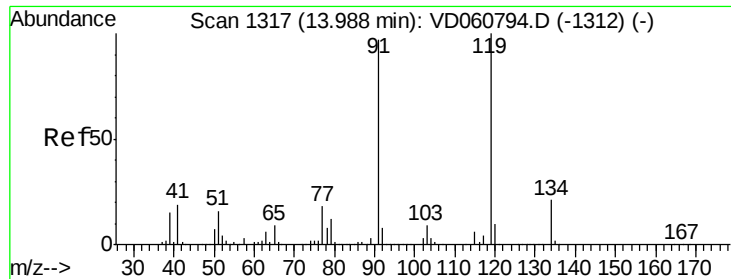
126 29.8 13.9 41.7



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





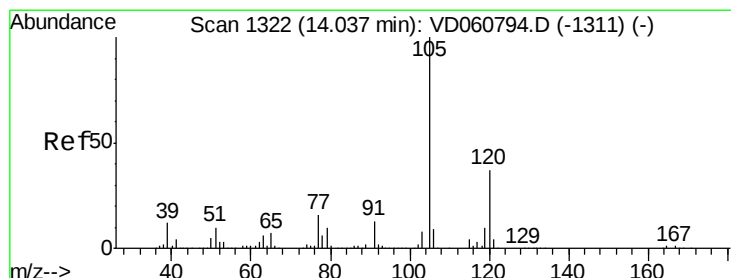
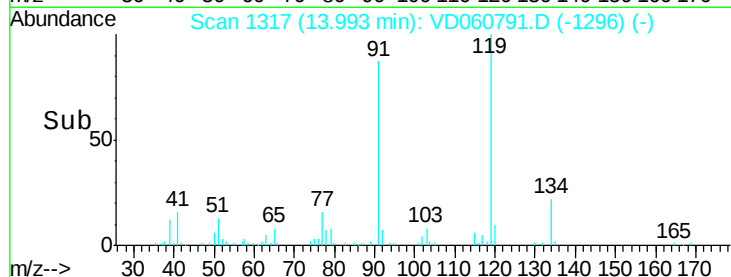
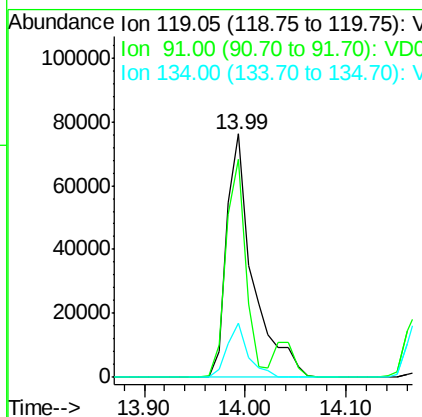
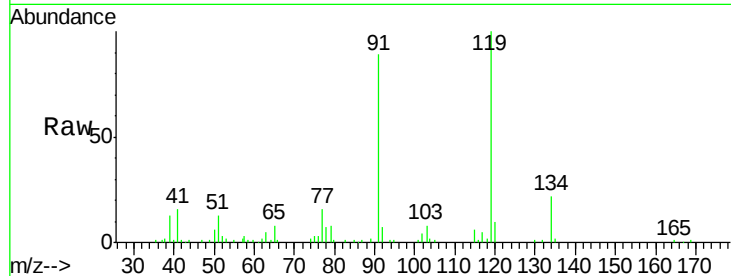
#83
tert-Butylbenzene
Concen: 5.974 ug/l
RT: 13.99 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	89.4	48.5	145.5
134	22.0	10.3	30.8

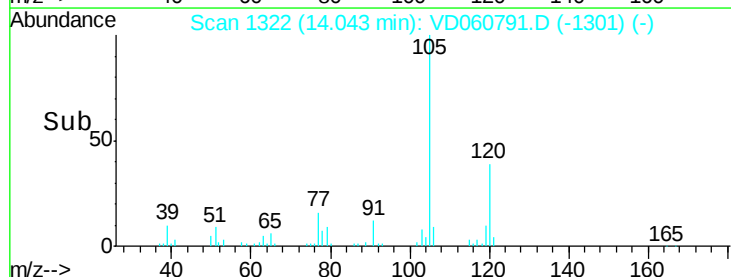
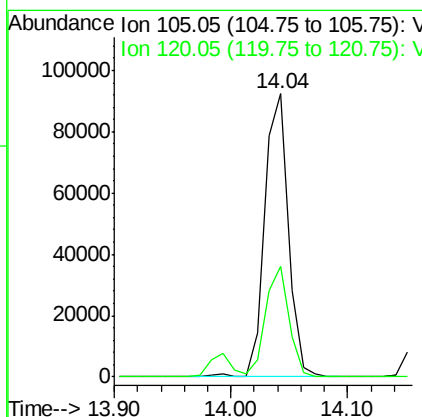
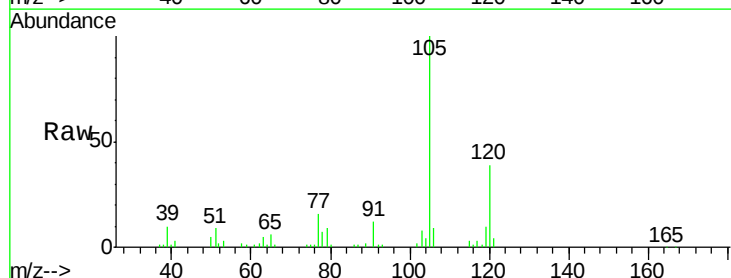
Manual Integrations
APPROVED

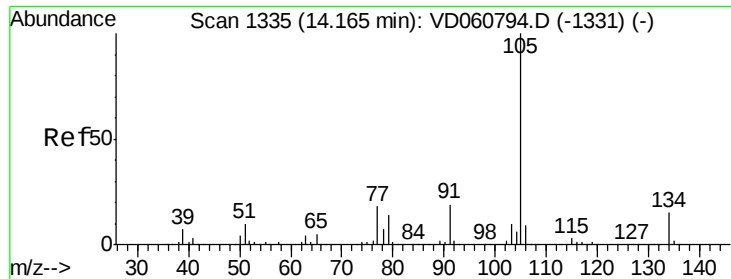
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 5.878 ug/l
RT: 14.04 min Scan# 1322
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	38.9	18.4	55.2





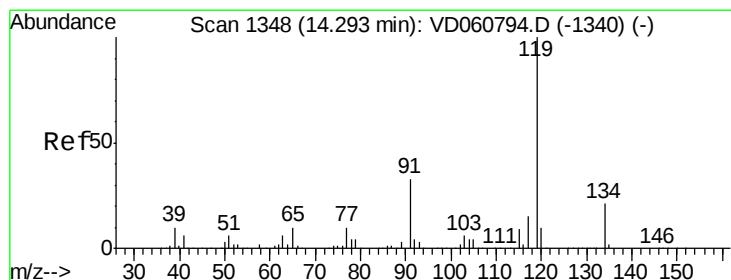
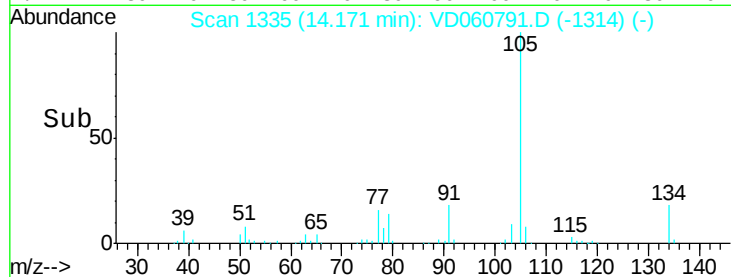
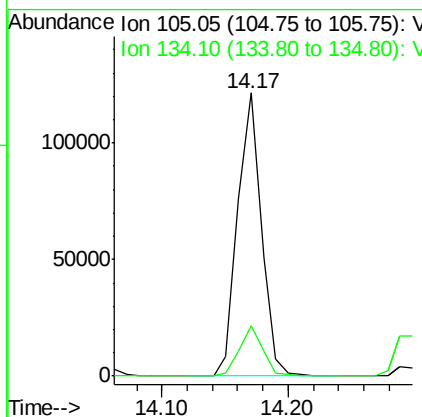
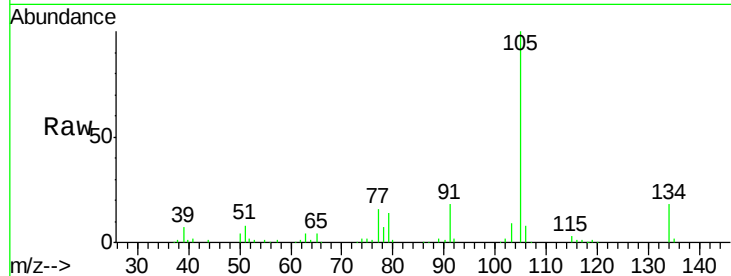
#85
 sec-Butylbenzene
 Concen: 5.984 ug/l
 RT: 14.17 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampled :
 VSTDIC005

Tot Ion:105 Resp: 157349
 Ion Ratio Lower Upper
 105 100
 134 17.9 7.4 22.2

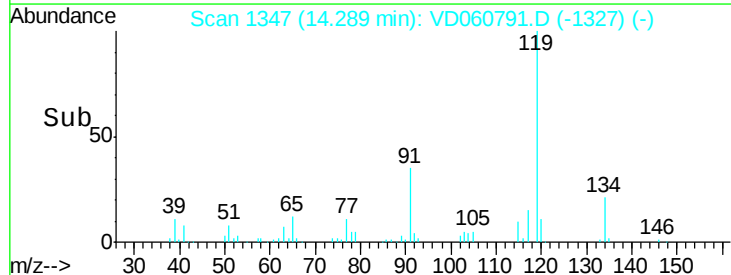
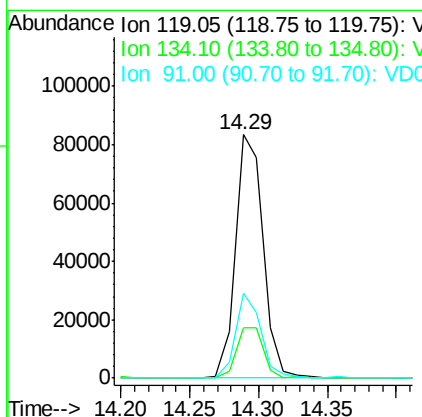
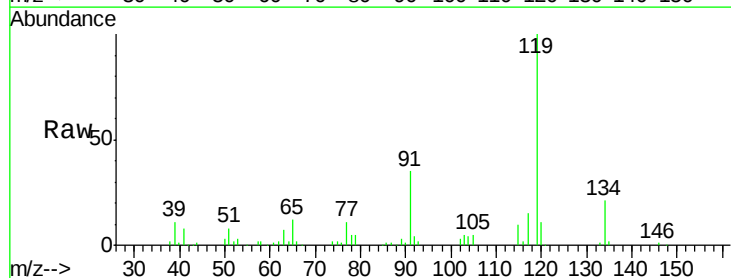
Manual Integrations
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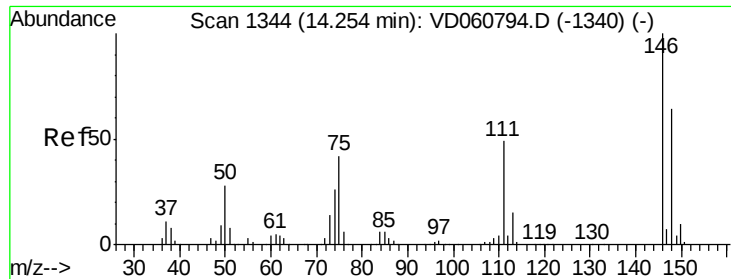
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#86
 p-Isopropyltoluene
 Concen: 5.469 ug/l
 RT: 14.29 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion:119 Resp: 116751
 Ion Ratio Lower Upper
 119 100
 134 20.9 10.8 32.3
 91 34.9 16.7 50.0





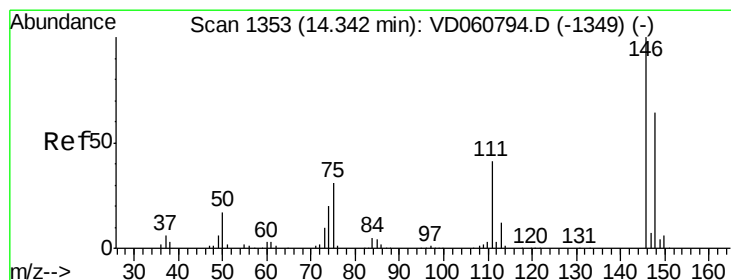
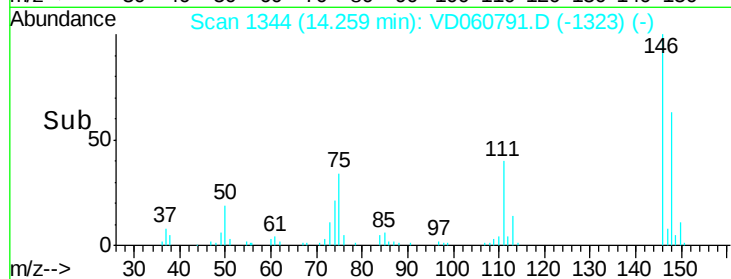
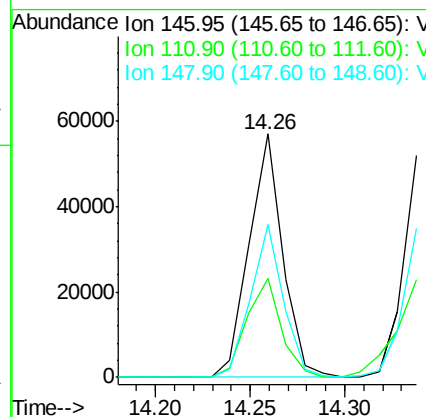
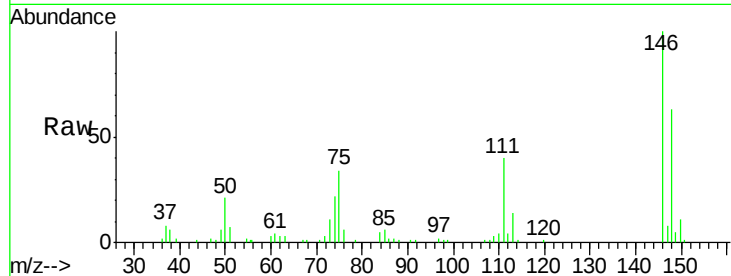
#87
 1,3-Dichlorobenzene
 Concen: 5.959 ug/l
 RT: 14.26 min Scan# 1344
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	24.3	73.0
148	62.9	32.1	96.5

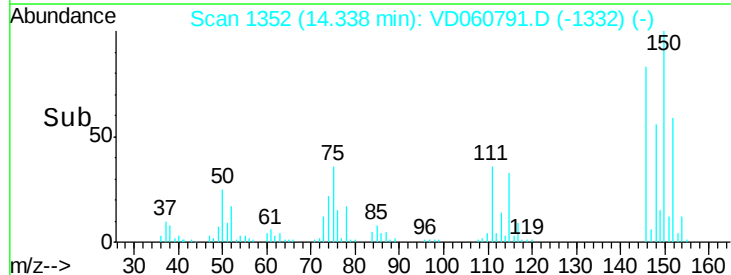
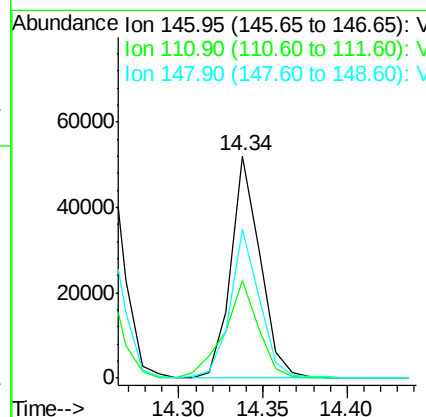
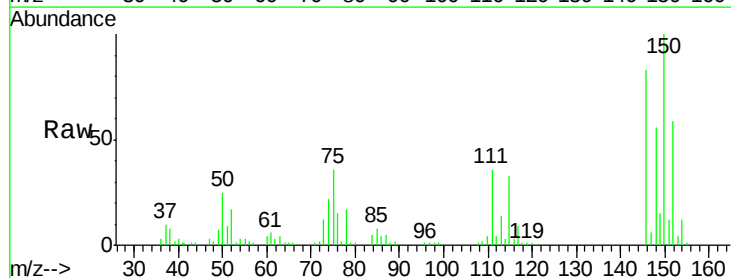
Manual Integrations
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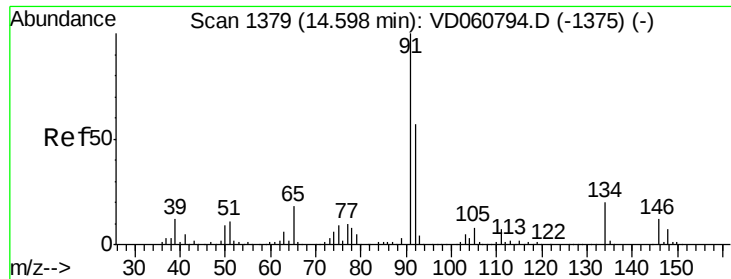
MMDadoda
 1/29/2019 4:55:26 PM



#88
 1,4-Dichlorobenzene
 Concen: 5.520 ug/l
 RT: 14.34 min Scan# 1352
 Delta R.T. -0.00 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.6	61.8
148	67.0	31.9	95.7





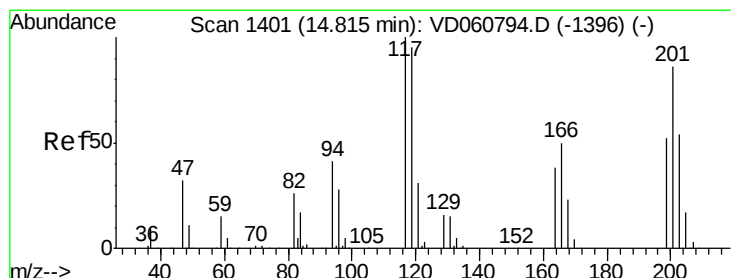
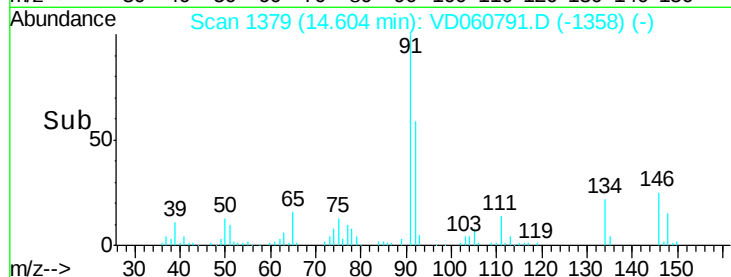
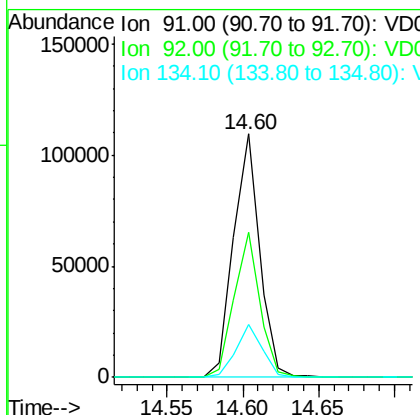
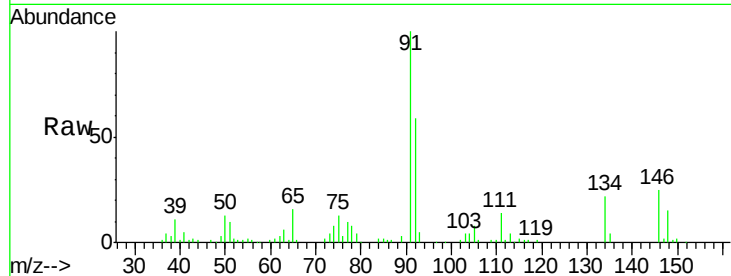
#89
n-Butylbenzene
Concen: 5.889 ug/l
RT: 14.60 min Scan# 1379
Delta R.T. 0.01 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.5	85.5
134	21.9	10.0	29.8

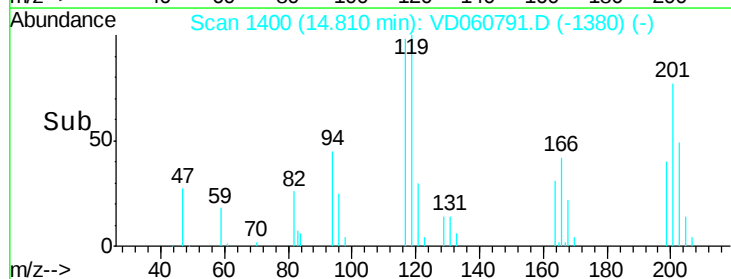
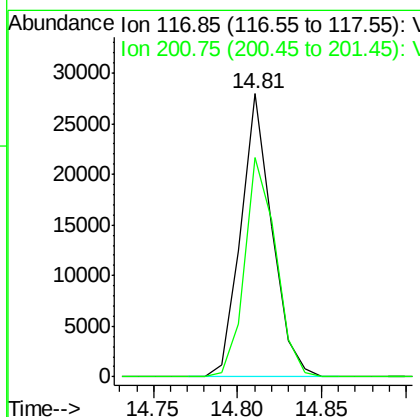
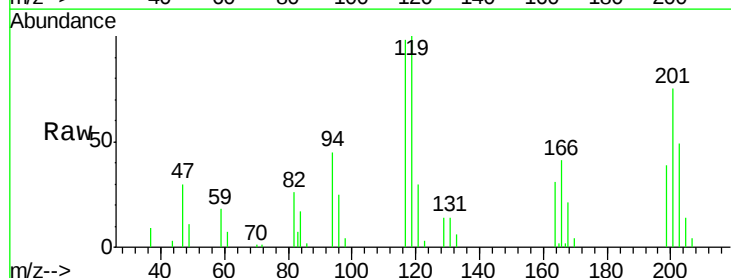
Manual Integrations
APPROVED

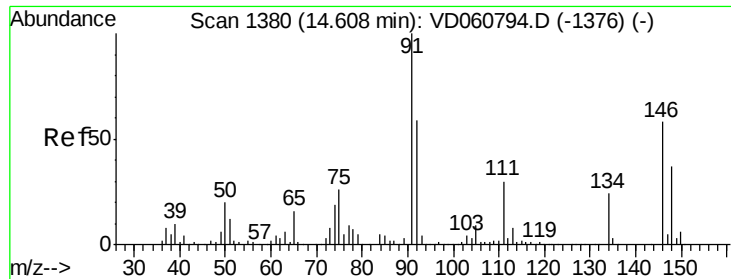
MMDadoda
1/29/2019 4:55:26 PM



#90
Hexachloroethane
Concen: 5.651 ug/l
RT: 14.81 min Scan# 1400
Delta R.T. -0.00 min
Lab File: VD060791.D
Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.3	43.0	128.8





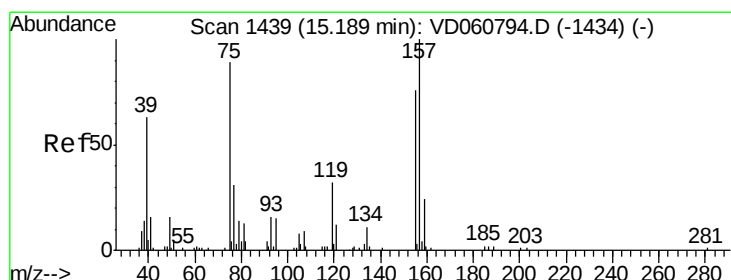
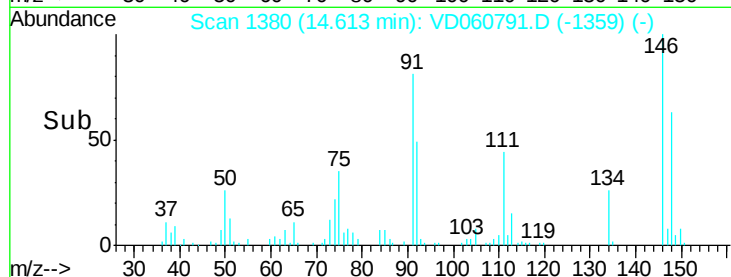
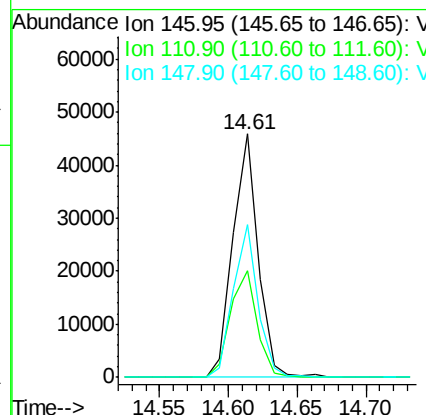
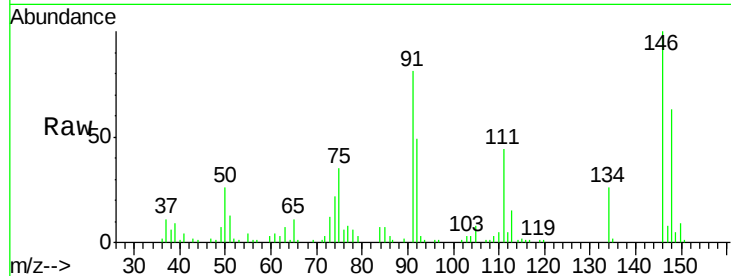
#91
 1,2-Dichlorobenzene
 Concen: 5.945 ug/l
 RT: 14.61 min Scan# 1380
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	25.6	76.8
148	63.0	31.4	94.3

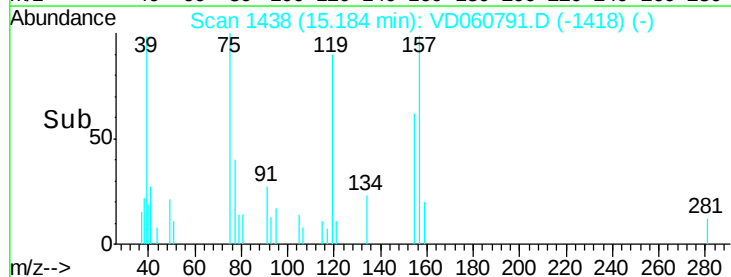
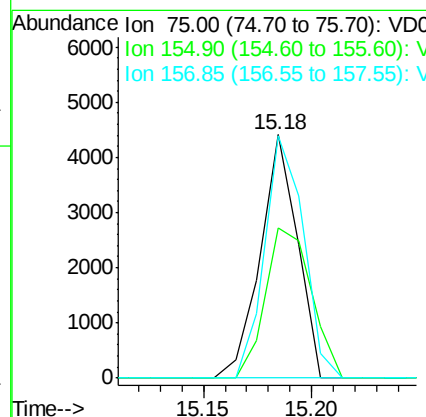
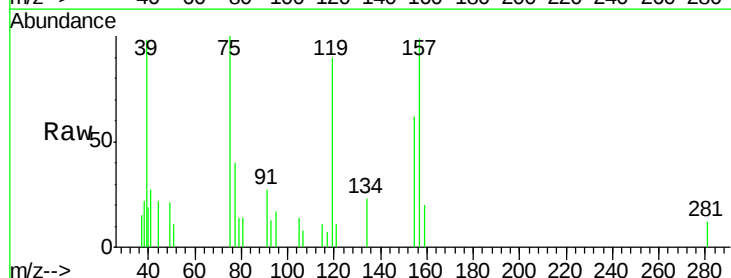
Manual Integrations
 APPROVED

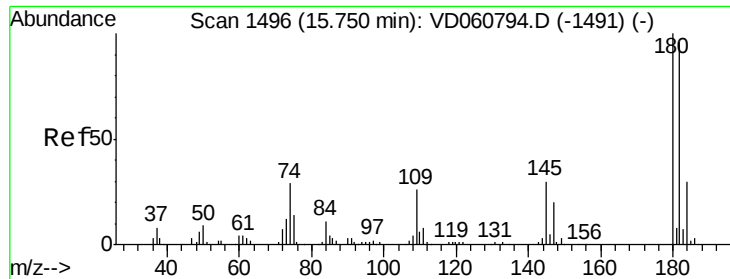
MMDadoda
 1/29/2019 4:55:26 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.754 ug/l
 RT: 15.18 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	61.8	43.0	129.0
157	99.4	56.3	168.9





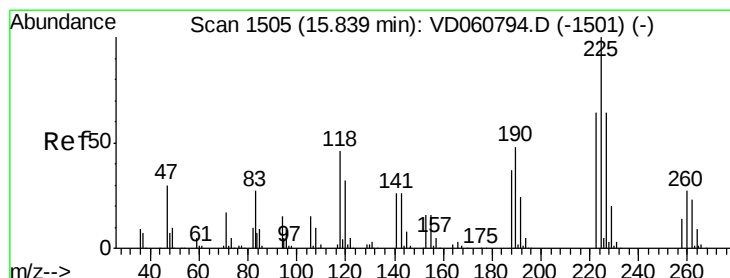
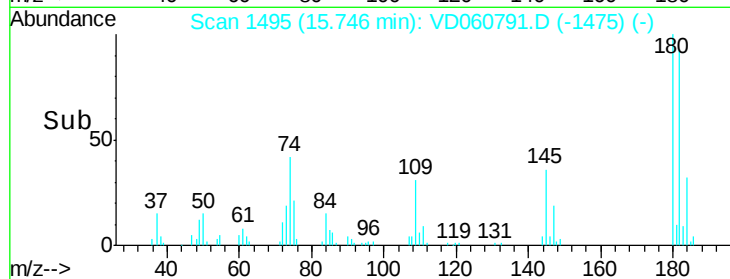
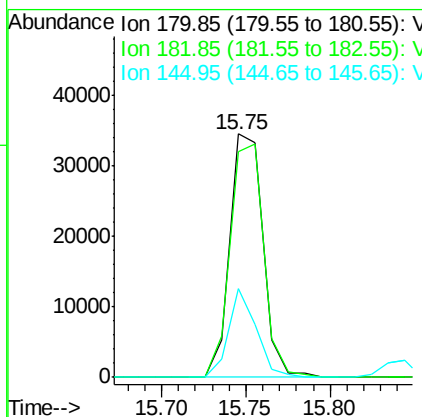
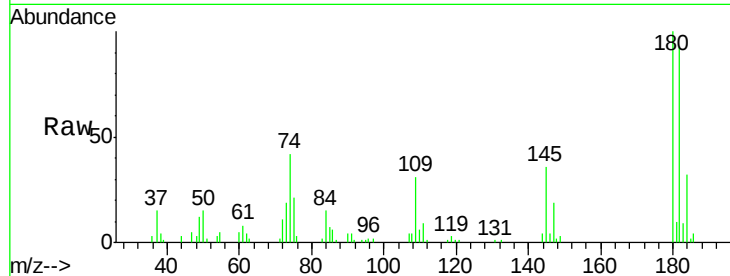
#93
 1,2,4-Trichlorobenzene
 Concen: 5.552 ug/l
 RT: 15.75 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.9	143.7
145	36.2	15.0	45.1

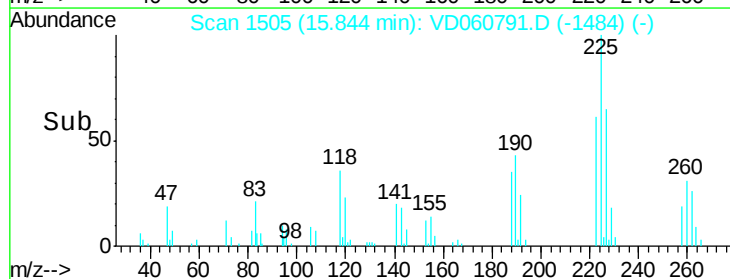
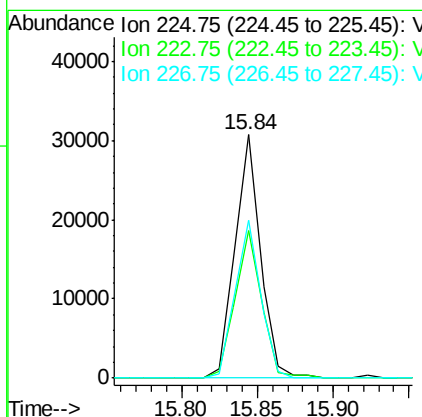
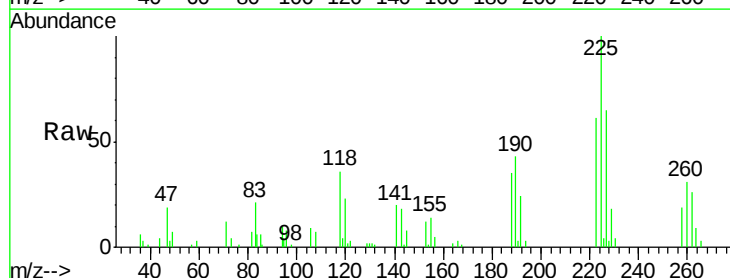
Manual Integrations
 APPROVED

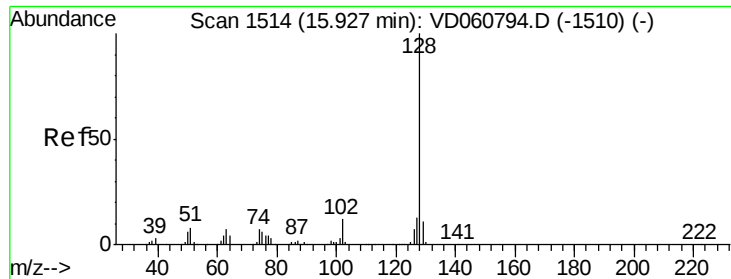
MMDadoda
 1/29/2019 4:55:26 PM



#94
 Hexachlorobutadiene
 Concen: 5.627 ug/l
 RT: 15.84 min Scan# 1505
 Delta R.T. 0.01 min
 Lab File: VD060791.D
 Acq: 28 Jan 2019 15:13

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.5	31.8	95.4
227	64.8	31.9	95.5





#95

Naphthalene

Concen: 5.149 ug/l

RT: 15.93 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Instrument :

MSVOA_D

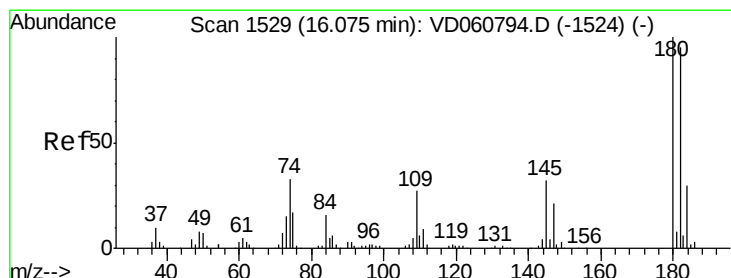
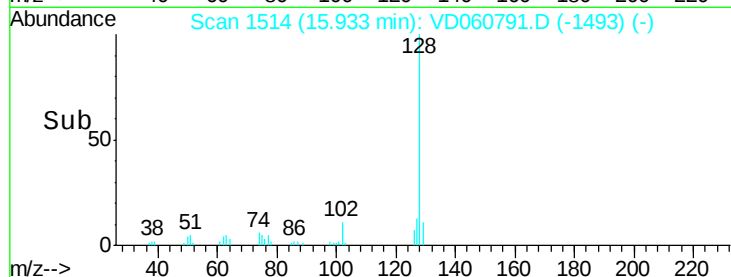
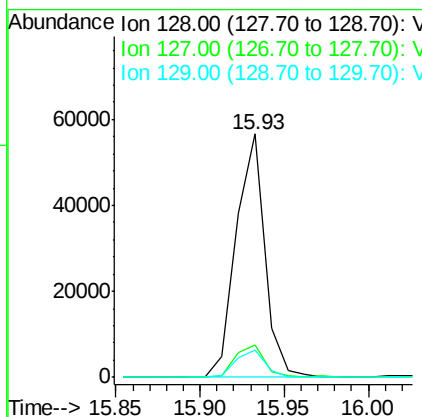
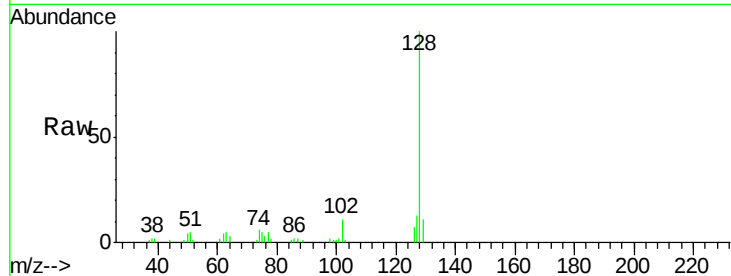
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	67050
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.4	15.6
129	11.4	8.7	13.1

Manual Integrations
APPROVED

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1/29/2019 4:55:26 PM



#96

1,2,3-Trichlorobenzene

Concen: 5.423 ug/l

RT: 16.08 min Scan# 1529

Delta R.T. 0.01 min

Lab File: VD060791.D

Acq: 28 Jan 2019 15:13

Tgt Ion:	180	Resp:	39968
Ion Ratio	Lower	Upper	
180	100		
182	109.3	47.4	142.3
145	26.5	15.8	47.4

