

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110819\
 Data File : VD064162.D
 Acq On : 08 Nov 2019 18:46
 Operator : VA/SY
 Sample : VD1108SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/13/2019 11:15:01 AM

Quant Time: Nov 11 08:31:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 11 08:23:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	830881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1189808	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	1020248	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	489361	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	371668	54.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.78%	
35) Dibromofluoromethane	7.92	113	359342	52.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.22%	
50) Toluene-d8	10.34	98	1386150	53.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.60%	
62) 4-Bromofluorobenzene	12.64	95	462412	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	129927	18.854	ug/l	96
3) Chloromethane	2.21	50	157088	21.252	ug/l	98
4) Vinyl Chloride	2.35	62	161631	20.448	ug/l	99
5) Bromomethane	2.76	94	103694	20.775	ug/l	92
6) Chloroethane	2.93	64	105625	20.913	ug/l	100
7) Trichlorofluoromethane	3.27	101	267219	20.852	ug/l	99
8) Diethyl Ether	3.70	74	68624	19.475	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	141720	19.348	ug/l	99
10) Methyl Iodide	4.30	142	135800	17.613	ug/l	100
11) Tert butyl alcohol	5.26	59	52801m	110.627	ug/l	
12) 1,1-Dichloroethene	4.06	96	136002	19.480	ug/l	95
13) Acrolein	3.92	56	32372	80.173	ug/l	90
14) Allyl chloride	4.71	41	245141	19.859	ug/l	98
15) Acrylonitrile	5.43	53	151386	100.777	ug/l	99
16) Acetone	4.17	43	136325	84.210	ug/l	94
17) Carbon Disulfide	4.40	76	431977	19.868	ug/l	99
18) Methyl Acetate	4.73	43	91256	20.183	ug/l	100
19) Methyl tert-butyl Ether	5.49	73	332051	19.922	ug/l	98
20) Methylene Chloride	4.97	84	172064	21.041	ug/l	96
21) trans-1,2-Dichloroethene	5.47	96	156283	19.758	ug/l	98
22) Diisopropyl ether	6.37	45	453271	19.790	ug/l	97
23) Vinyl Acetate	6.31	43	1288187	100.898	ug/l	100
24) 1,1-Dichloroethane	6.27	63	265764	19.984	ug/l	98
25) 2-Butanone	7.23	43	205021	98.027	ug/l	96
26) 2,2-Dichloropropane	7.21	77	254935	19.548	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	165860	19.553	ug/l	99
28) Bromochloromethane	7.55	49	75019	16.203	ug/l	95
29) Tetrahydrofuran	7.57	42	126897	100.984	ug/l	99
30) Chloroform	7.71	83	270555	19.889	ug/l	99
31) Cyclohexane	7.99	56	257865	19.226	ug/l	97
32) 1,1,1-Trichloroethane	7.91	97	260349	19.988	ug/l	99
36) 1,1-Dichloropropene	8.11	75	219387	19.979	ug/l	99
37) Ethyl Acetate	7.30	43	96291	20.800	ug/l	99
38) Carbon Tetrachloride	8.10	117	227898	19.396	ug/l	95

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	266619	19.188	ug/l	96
40) Benzene	8.35	78	585912	19.523	ug/l	99
41) Methacrylonitrile	7.53	41	59483	20.444	ug/l #	90
42) 1,2-Dichloroethane	8.43	62	181547	20.142	ug/l	99
43) Isopropyl Acetate	8.46	43	188730	19.787	ug/l	99
44) Trichloroethene	9.11	130	174471	19.370	ug/l	98
45) 1,2-Dichloropropane	9.39	63	143922	19.703	ug/l	94
46) Dibromomethane	9.48	93	77964	19.937	ug/l	97
47) Bromodichloromethane	9.67	83	207754	19.723	ug/l	98
48) Methyl methacrylate	9.46	41	90346	19.371	ug/l	99
49) 1,4-Dioxane	9.47	88	18215	387.836	ug/l	97
51) 4-Methyl-2-Pentanone	10.23	43	460387	100.653	ug/l	100
52) Toluene	10.41	92	387516	19.637	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	206022	19.523	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	236757	19.226	ug/l	96
55) 1,1,2-Trichloroethane	10.80	97	103765	19.560	ug/l	99
56) Ethyl methacrylate	10.67	69	148525	20.014	ug/l	95
57) 1,3-Dichloropropane	10.95	76	183052	19.785	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	301054	100.150	ug/l	100
59) 2-Hexanone	10.99	43	318381	97.839	ug/l	99
60) Dibromochloromethane	11.14	129	146297	19.763	ug/l	98
61) 1,2-Dibromoethane	11.25	107	105043	19.769	ug/l	98
64) Tetrachloroethene	10.88	164	151952	19.365	ug/l	97
65) Chlorobenzene	11.67	112	404495	19.497	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.74	131	153698	19.483	ug/l	99
67) Ethyl Benzene	11.75	91	726288	19.354	ug/l	100
68) m/p-Xylenes	11.86	106	561675	39.048	ug/l	99
69) o-Xylene	12.18	106	256609	19.235	ug/l	97
70) Styrene	12.20	104	444896	19.105	ug/l	100
71) Bromoform	12.36	173	89805	20.003	ug/l #	98
73) Isopropylbenzene	12.48	105	716052	19.935	ug/l	99
74) N-amyl acetate	12.29	43	170256	20.072	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.73	83	110063	20.336	ug/l	98
76) 1,2,3-Trichloropropane	12.78	75	79100m	20.068	ug/l	
77) Bromobenzene	12.77	156	173709	19.906	ug/l	99
78) n-propylbenzene	12.83	91	810278	19.745	ug/l	100
79) 2-Chlorotoluene	12.91	91	455663	19.667	ug/l	100
80) 1,3,5-Trimethylbenzene	12.96	105	579289	19.627	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.53	75	38742	19.524	ug/l	96
82) 4-Chlorotoluene	13.01	91	478452	19.799	ug/l	98
83) tert-Butylbenzene	13.23	119	497234	19.106	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	571111	19.600	ug/l	99
85) sec-Butylbenzene	13.41	105	681235	19.489	ug/l	100
86) p-Isopropyltoluene	13.52	119	635835	19.134	ug/l	98
87) 1,3-Dichlorobenzene	13.52	146	313326	19.343	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	309013	19.546	ug/l	98
89) n-Butylbenzene	13.84	91	588595	19.605	ug/l	100
90) Hexachloroethane	14.11	117	118705	19.329	ug/l	97
91) 1,2-Dichlorobenzene	13.89	146	269472	19.655	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	19888	20.552	ug/l	92

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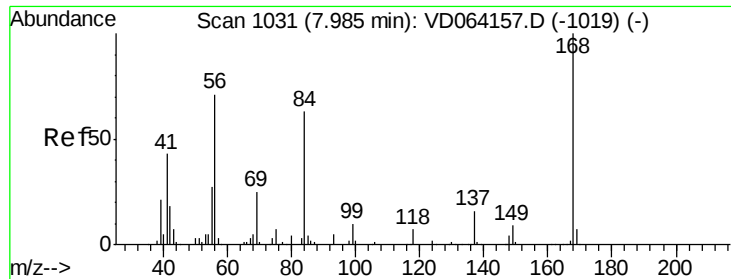
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	201230	19.026	ug/l	99
94) Hexachlorobutadiene	15.27	225	134762	19.727	ug/l	99
95) Naphthalene	15.41	128	345973	19.955	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	172829	19.224	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion:168 Resp: 830881

Ion Ratio Lower Upper

168 100

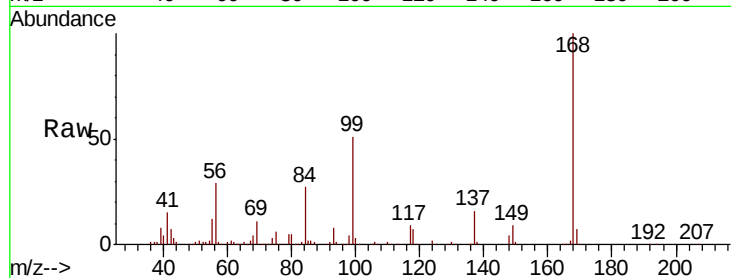
99 51.2 41.6 62.4

Manual Integrations

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11/13/2019 11:15:01 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

400000

300000

200000

100000

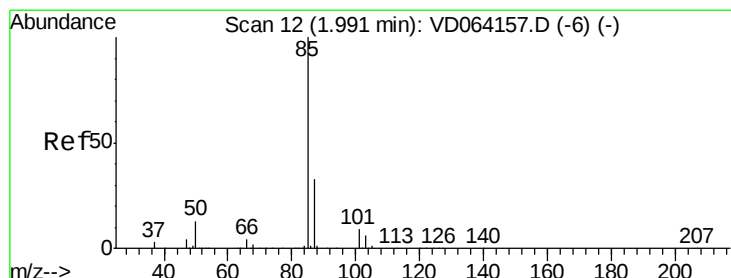
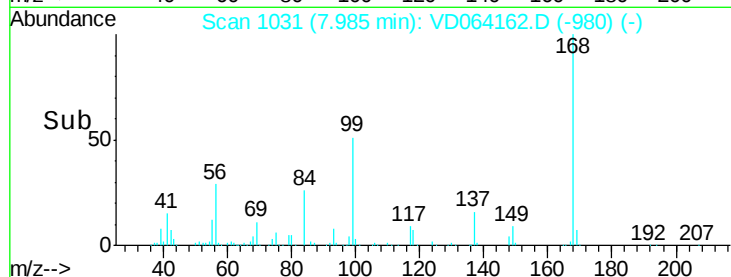
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.854 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064162.D

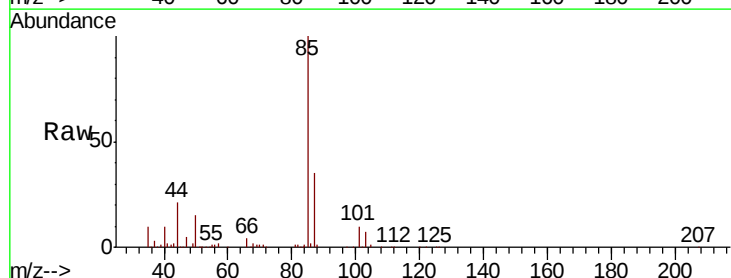
Acq: 08 Nov 2019 18:46

Tgt Ion: 85 Resp: 129927

Ion Ratio Lower Upper

85 100

87 34.9 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

100000

80000

60000

40000

20000

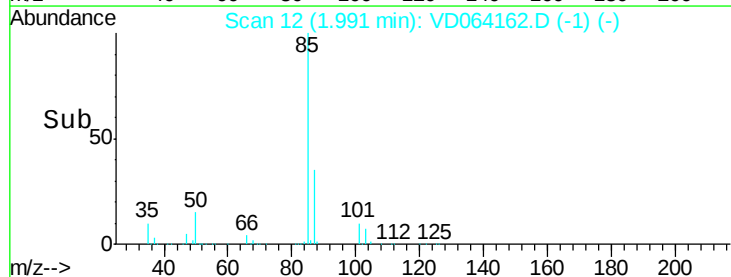
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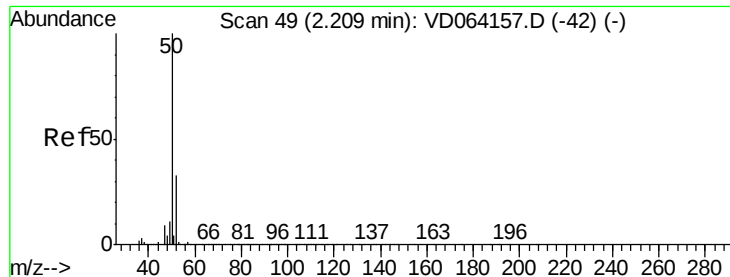
1.95

2.00

2.05

Time-->





#3

Chloromethane

Concen: 21.252 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 50 Resp: 157088

Ion Ratio Lower Upper

50 100

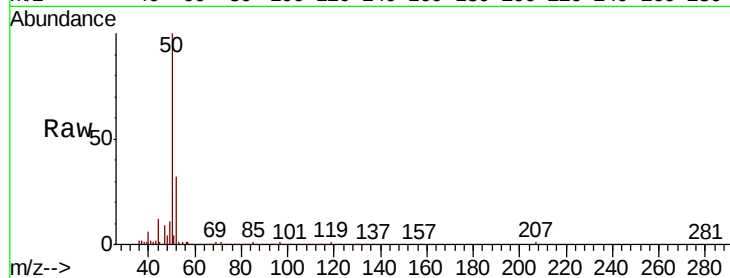
52 32.0 26.2 39.4

Manual Integrations

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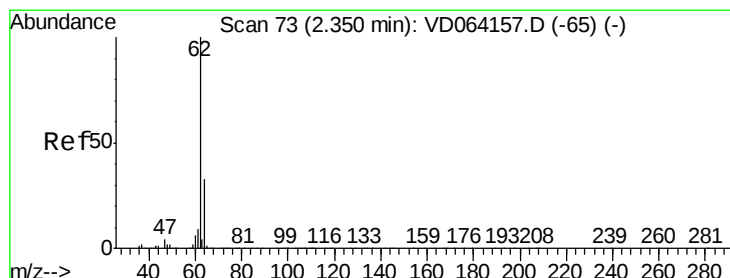
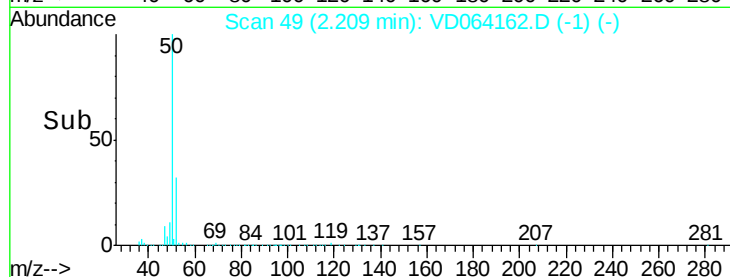
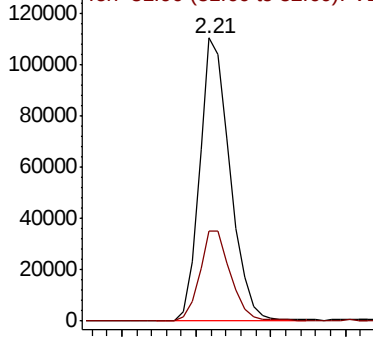
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.448 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064162.D

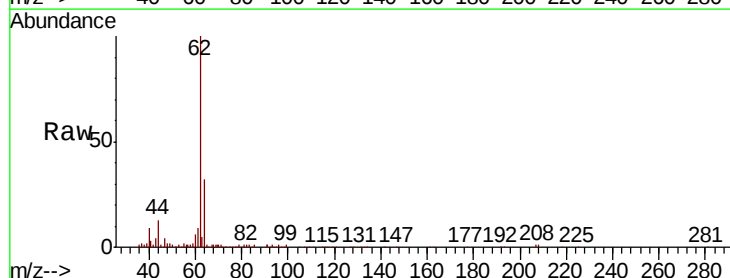
Acq: 08 Nov 2019 18:46

Tgt Ion: 62 Resp: 161631

Ion Ratio Lower Upper

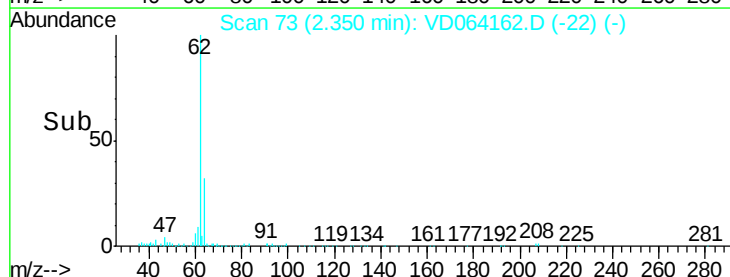
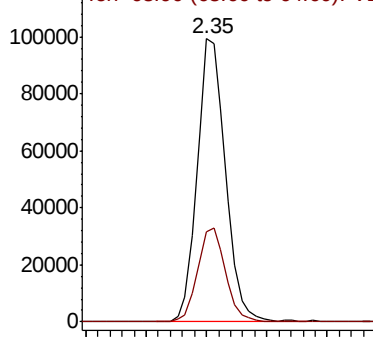
62 100

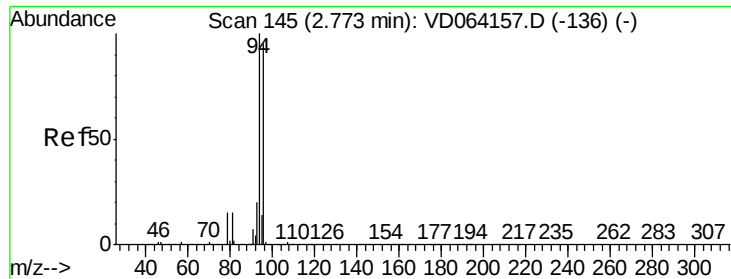
64 31.9 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.775 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 94 Resp: 103694

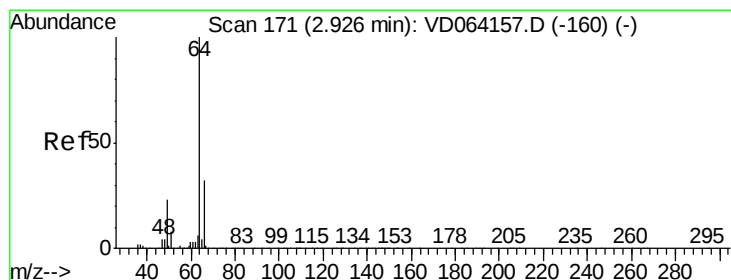
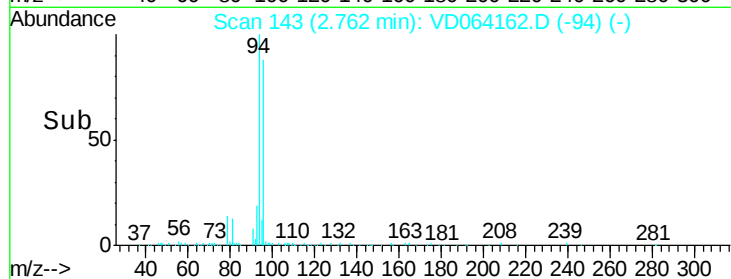
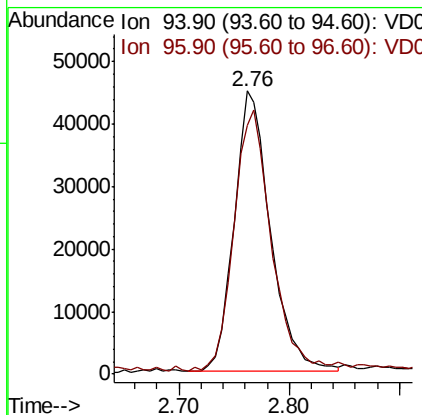
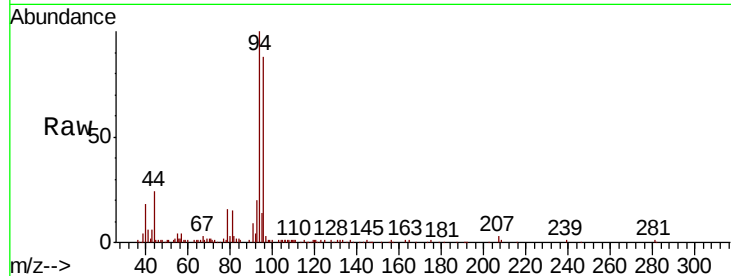
Ion Ratio Lower Upper

94 100

96 87.7 76.2 114.4

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#6

Chloroethane

Concen: 20.913 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD064162.D

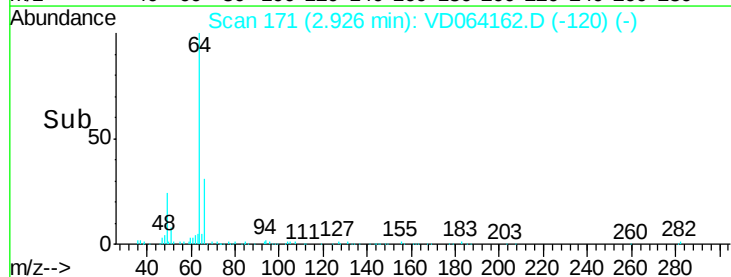
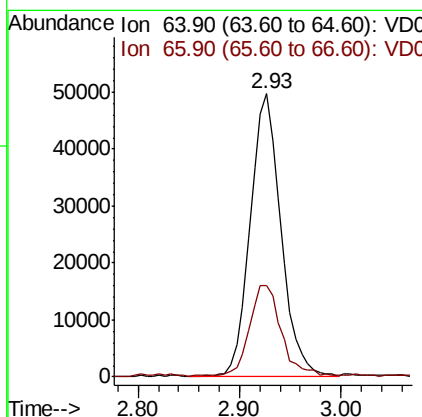
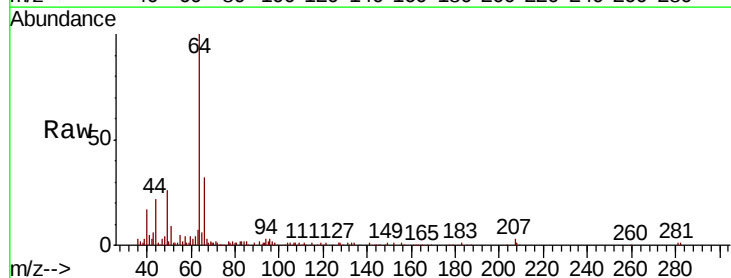
Acq: 08 Nov 2019 18:46

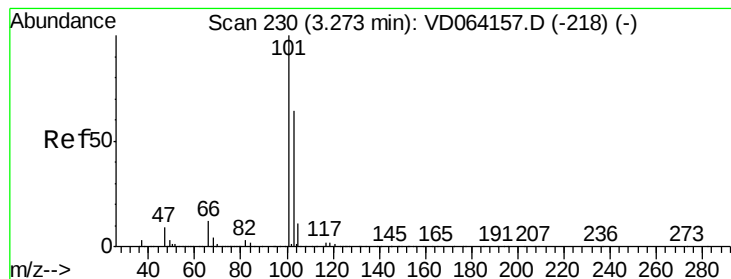
Tgt Ion: 64 Resp: 105625

Ion Ratio Lower Upper

64 100

66 31.9 25.5 38.3





#7

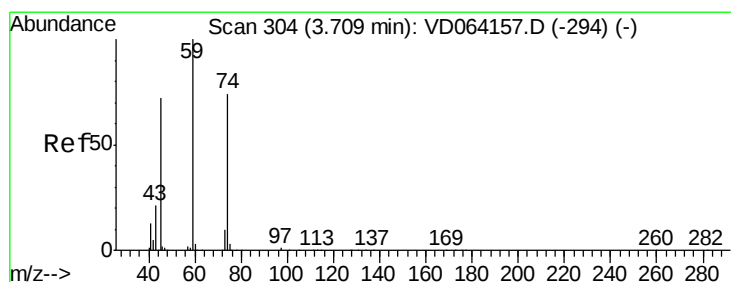
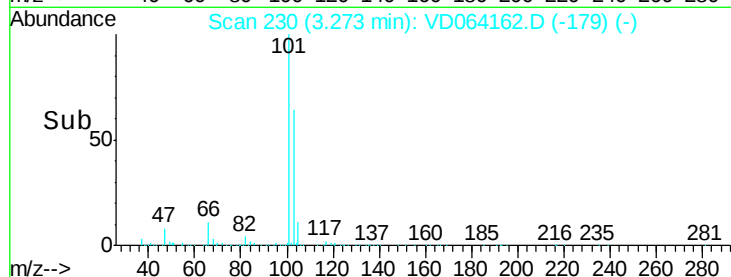
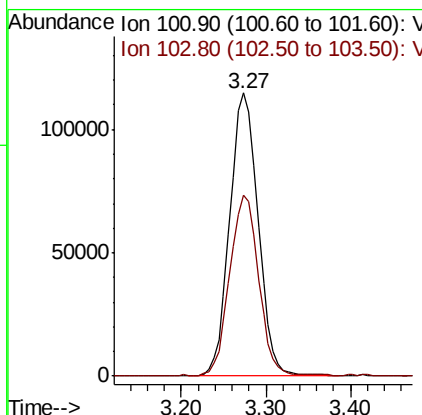
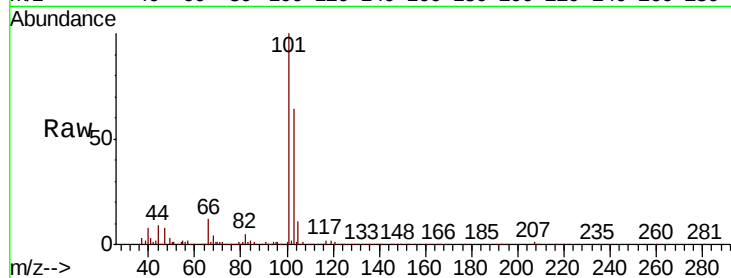
Trichlorofluoromethane
Concen: 20.852 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	50.8	76.2

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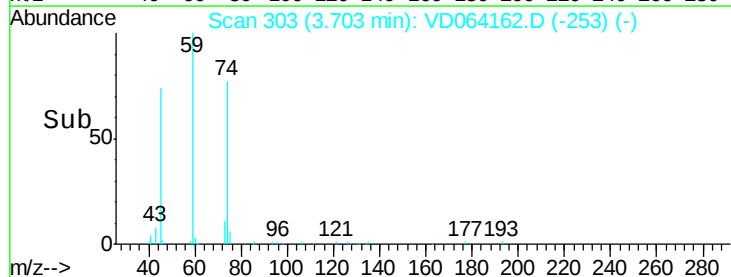
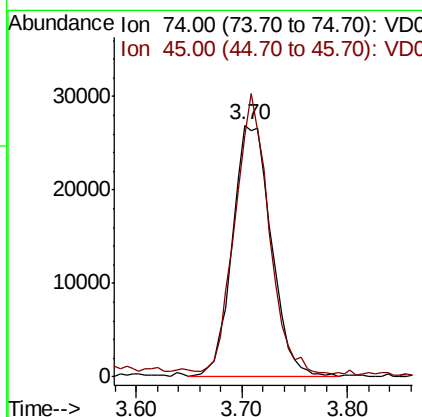
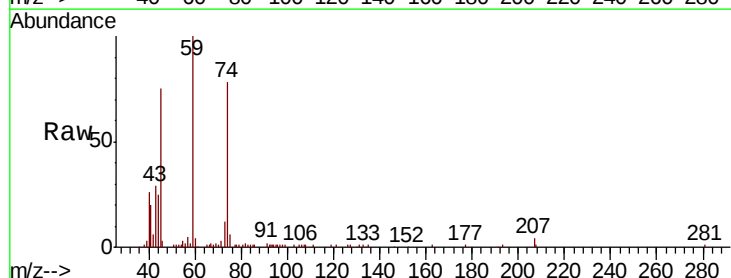
MMDadoda
11/13/2019 11:15:01 AM

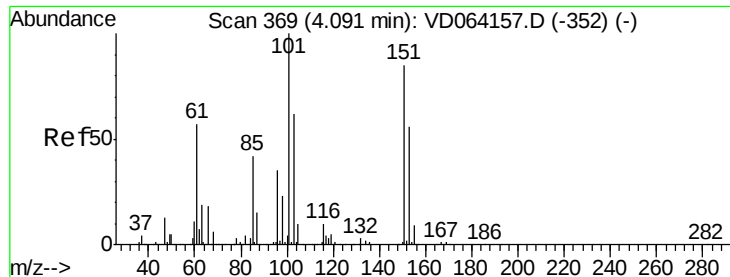


#8

Diethyl Ether
Concen: 19.475 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.0	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.348 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

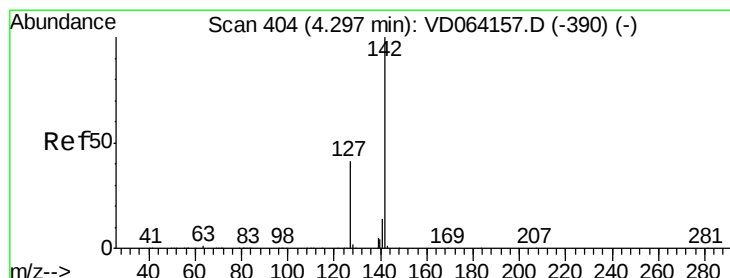
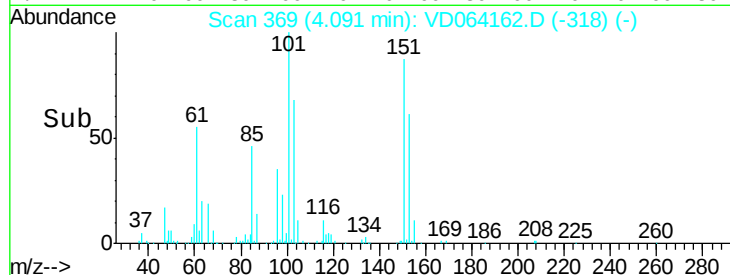
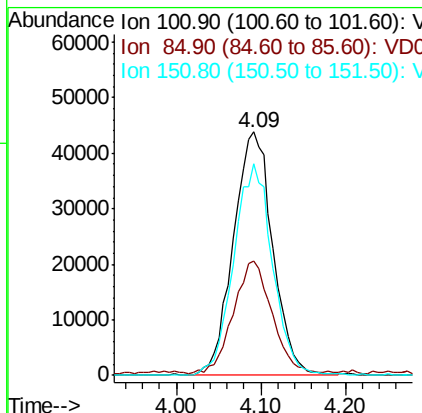
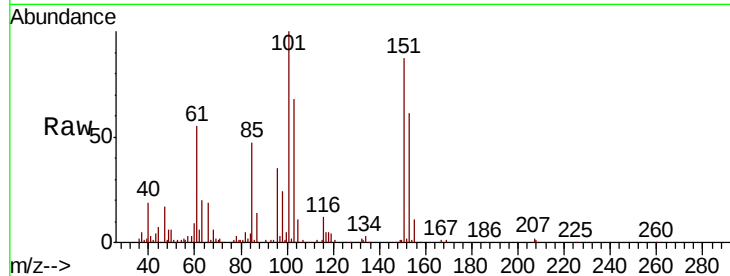
ClientSampleId :

VD1108SBS01

Tot Ion:	101	Resp:	141720
Ion Ratio	Lower	Upper	
101	100		
85	45.0	34.4	51.6
151	85.5	68.1	102.1

Manual Integrations
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#10

Methyl Iodide

Concen: 17.613 ug/l

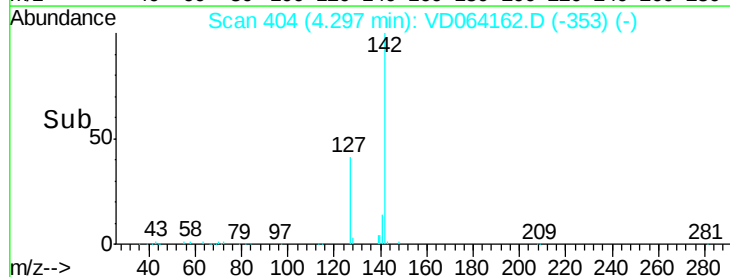
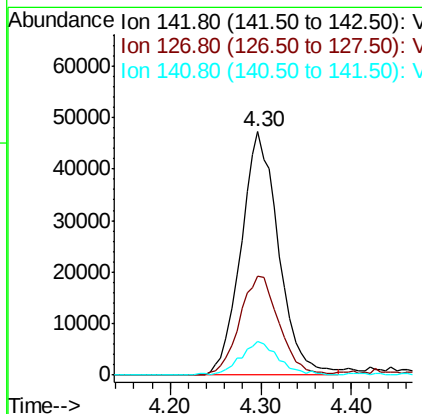
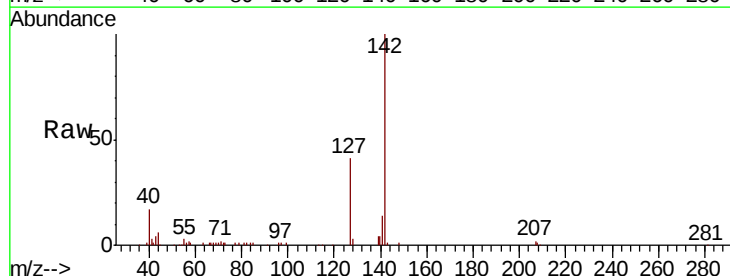
RT: 4.30 min Scan# 404

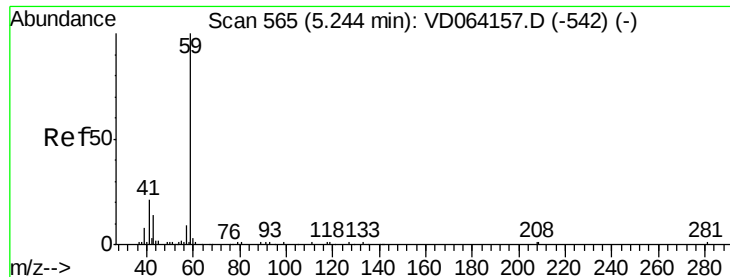
Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Tgt Ion:	142	Resp:	135800
Ion Ratio	Lower	Upper	
142	100		
127	42.7	34.4	51.6
141	14.0	11.2	16.8





#11

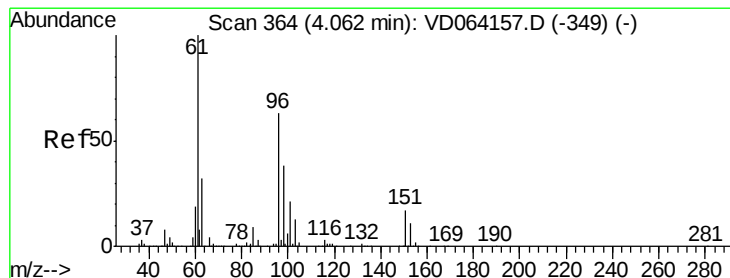
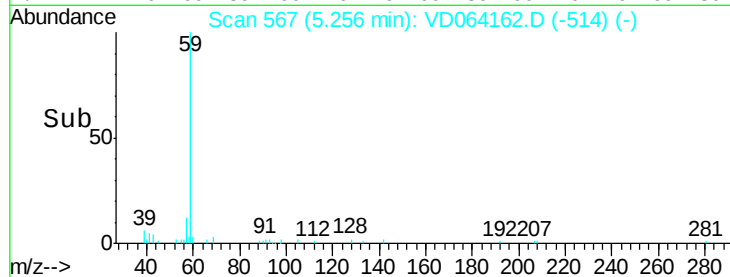
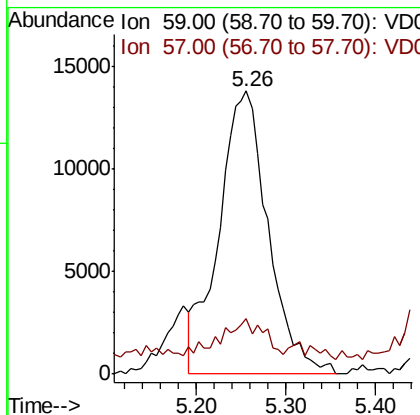
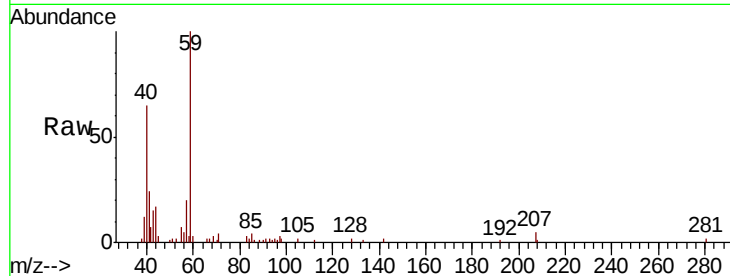
Tert butyl alcohol
Concen: 110.627 ug/l m
RT: 5.26 min Scan# 567
Delta R.T. 0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.3	9.4	14.2

Manual Integrations
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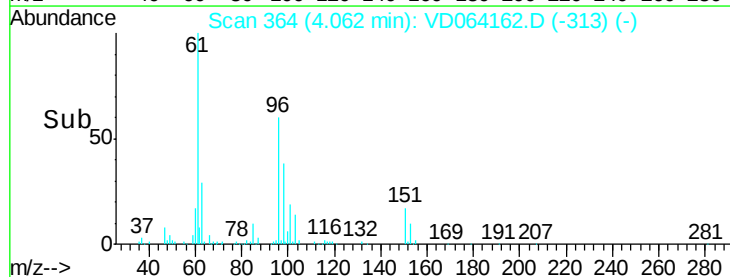
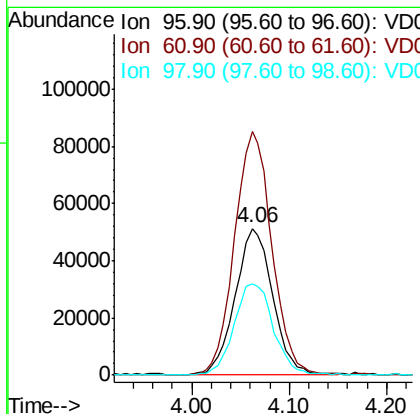
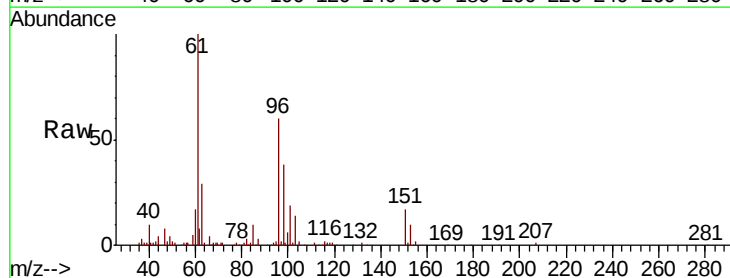
MMDadoda
11/13/2019 11:15:01 AM

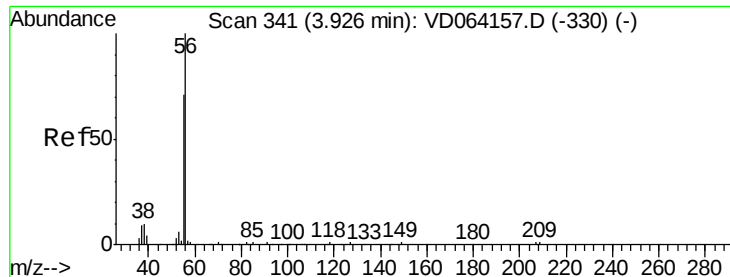


#12

1,1-Dichloroethene
Concen: 19.480 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.6	127.4	191.2
98	62.6	48.1	72.1





#13

Acrolein

Concen: 80.173 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 56 Resp: 32372

Ion Ratio Lower Upper

56 100

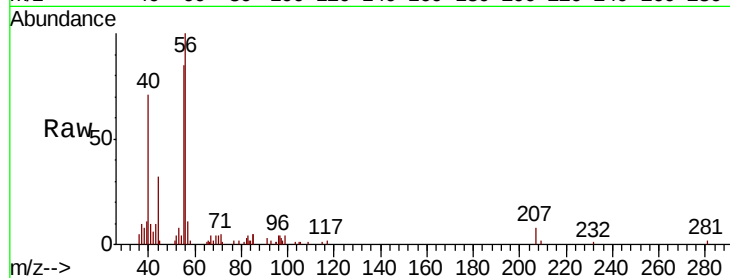
55 78.2 56.1 84.1

Manual Integrations

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MMDadoda

11/13/2019 11:15:01 AM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

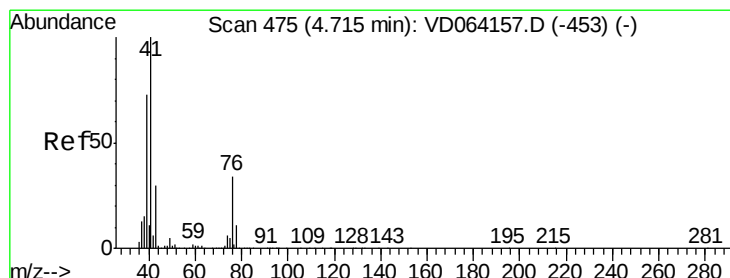
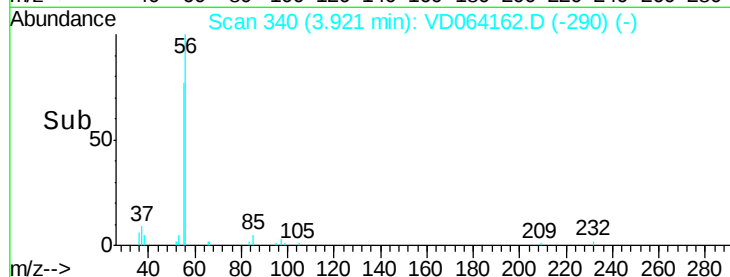
3.92

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 19.859 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

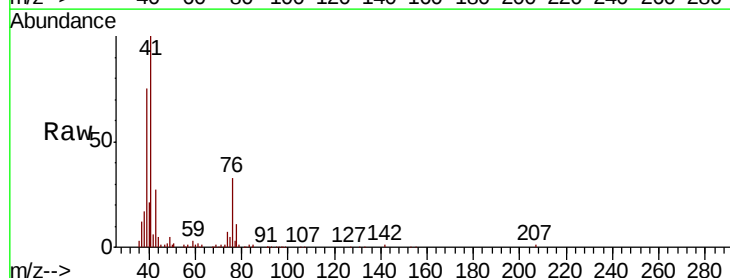
Tgt Ion: 41 Resp: 245141

Ion Ratio Lower Upper

41 100

39 73.8 57.5 86.3

76 34.6 26.8 40.2



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

4.71

100000

80000

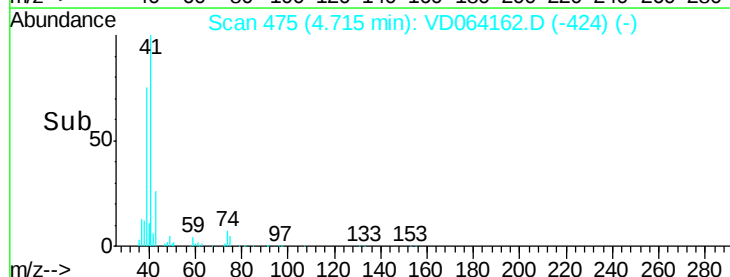
60000

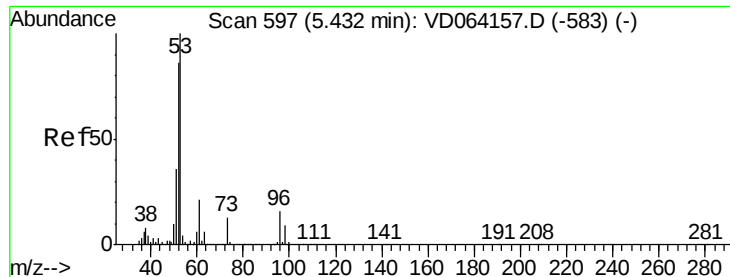
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 100.777 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

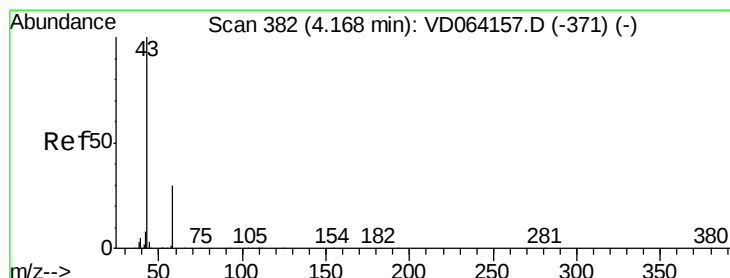
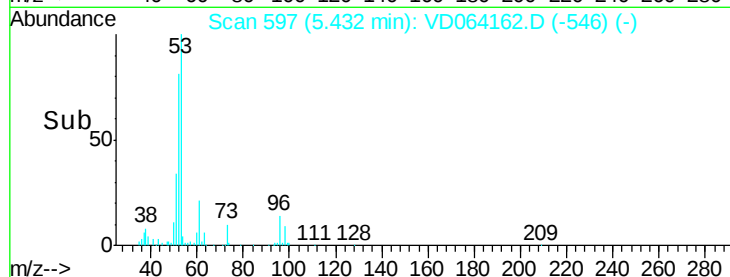
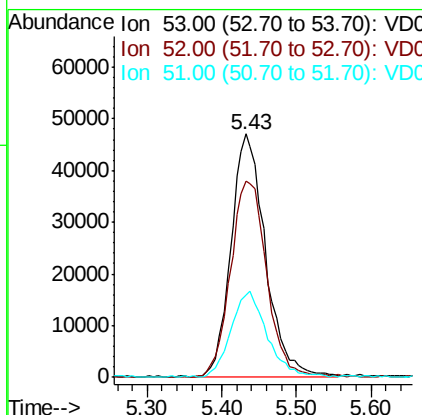
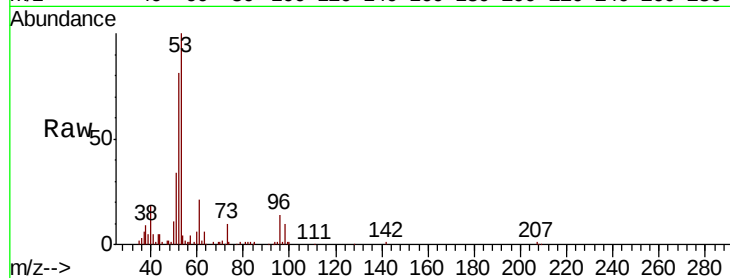
ClientSampleId :

VD1108SBS01

Tot Ion:	53	Resp:	151386
Ion	Ratio	Lower	Upper
53	100		
52	84.6	66.7	100.1
51	37.2	30.6	46.0

Manual Integrations
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#16

Acetone

Concen: 84.210 ug/l

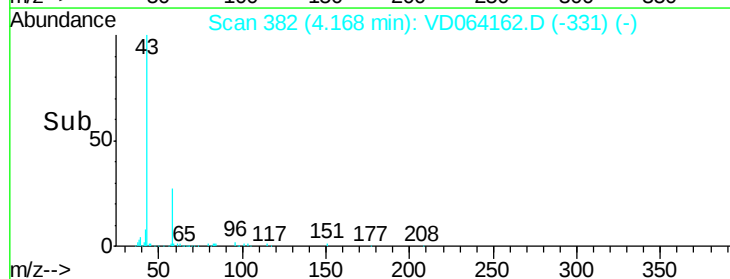
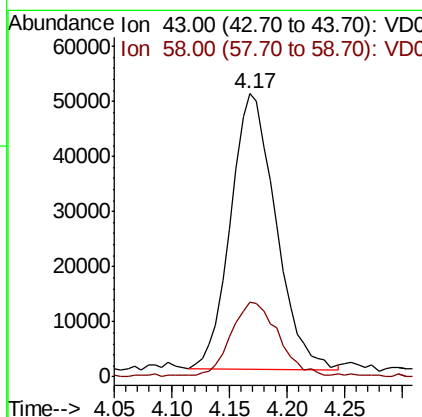
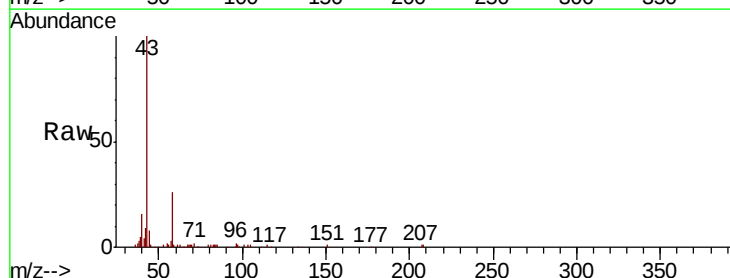
RT: 4.17 min Scan# 382

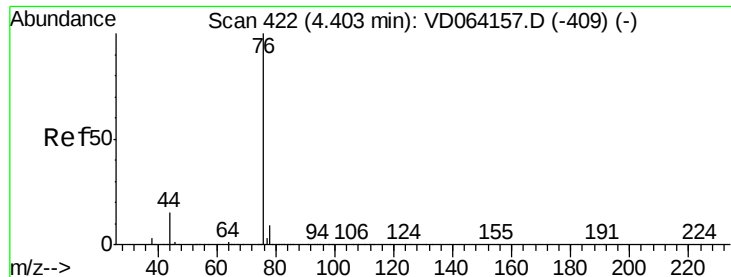
Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Tgt Ion:	43	Resp:	136325
Ion	Ratio	Lower	Upper
43	100		
58	26.6	24.1	36.1





#17

Carbon Disulfide

Concen: 19.868 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 76 Resp: 431977

Ion Ratio Lower Upper

76 100

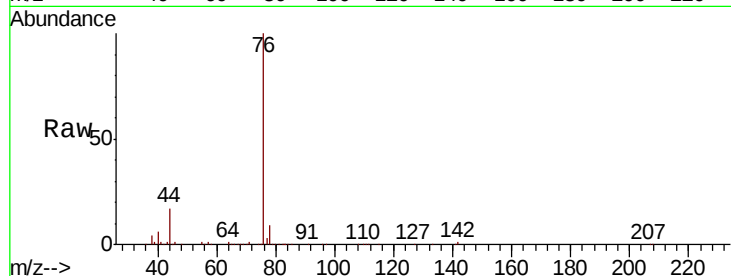
78 8.5 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

11/13/2019 11:15:01 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.40

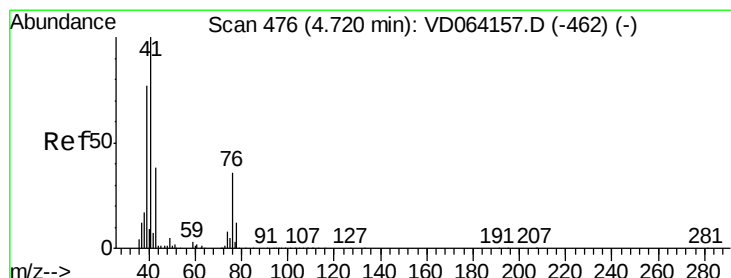
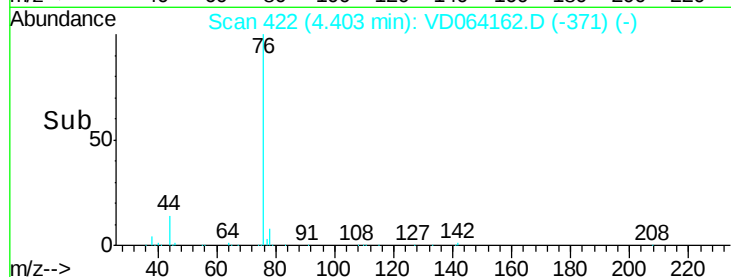
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.183 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.01 min

Lab File: VD064162.D

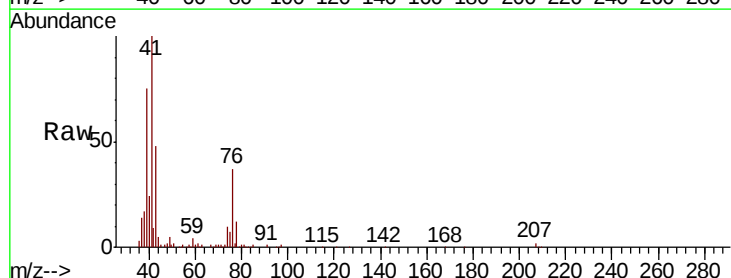
Acq: 08 Nov 2019 18:46

Tgt Ion: 43 Resp: 91256

Ion Ratio Lower Upper

43 100

74 23.1 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.73

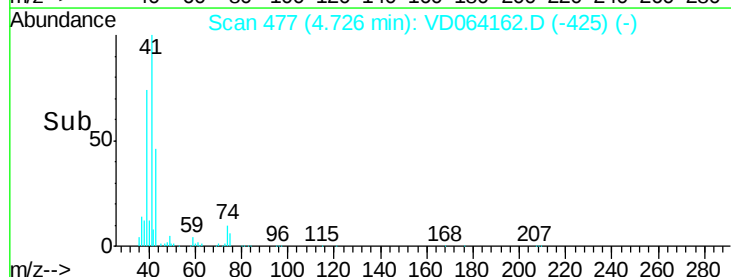
30000

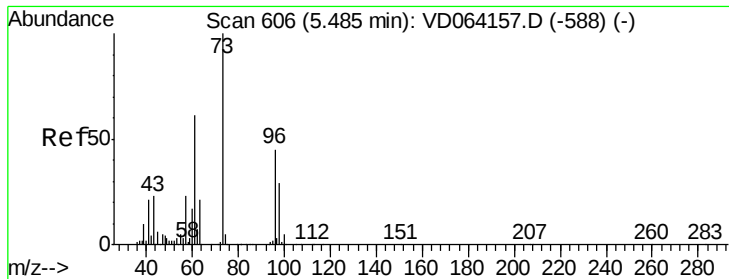
20000

10000

0

Time-->





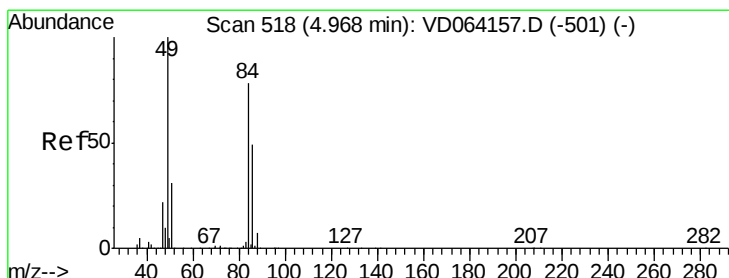
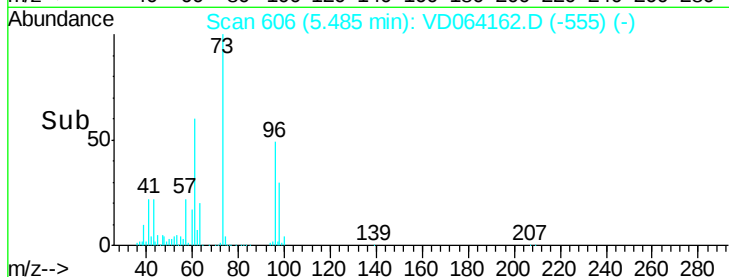
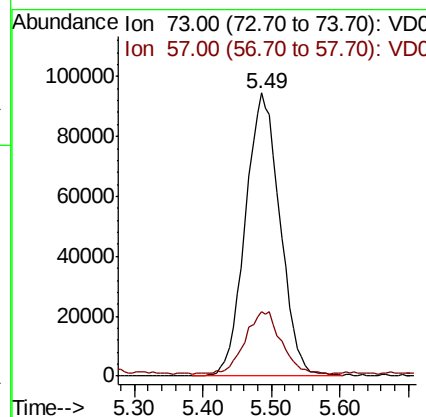
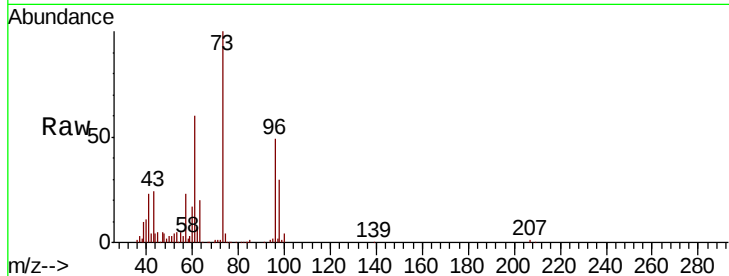
#19
Methvl tert-butvl Ether
Concen: 19.922 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.4	27.6

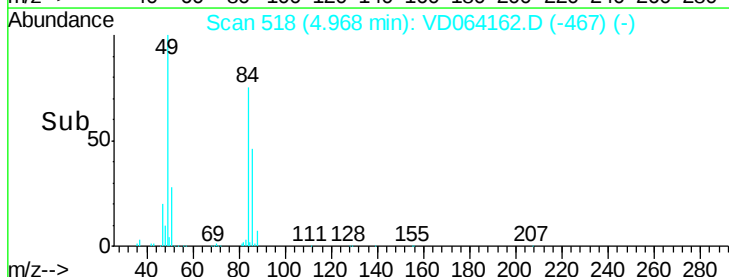
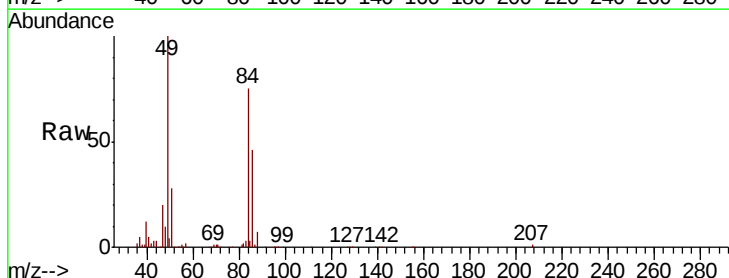
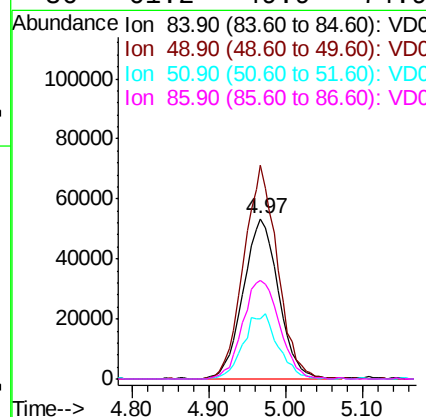
Manual Integrations
APPROVED

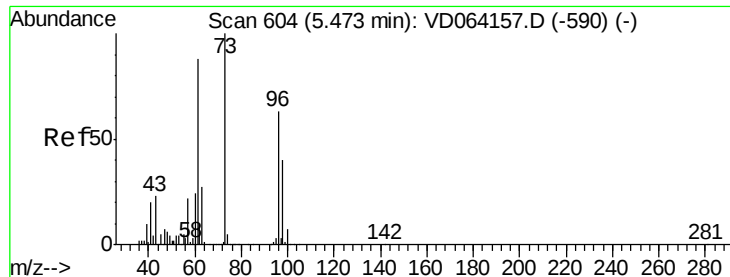
MMDadoda
11/13/2019 11:15:01 AM



#20
Methylene Chloride
Concen: 21.041 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
84	100		
49	132.9	102.1	153.1
51	37.3	32.2	48.2
86	61.2	49.9	74.9





#21

trans-1,2-Dichloroethene

Concen: 19.758 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 96 Resp: 156283

Ion Ratio Lower Upper

96 100

61 136.5 111.8 167.6

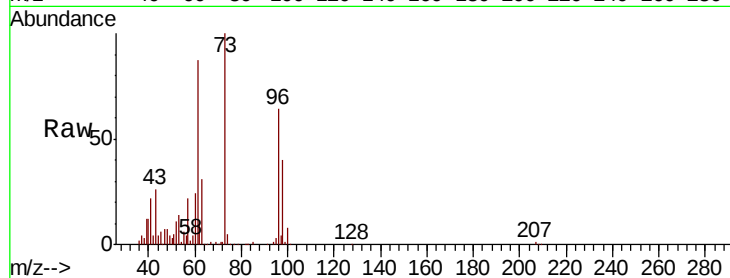
98 61.9 50.3 75.5

Manual Integrations

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MMDadoda

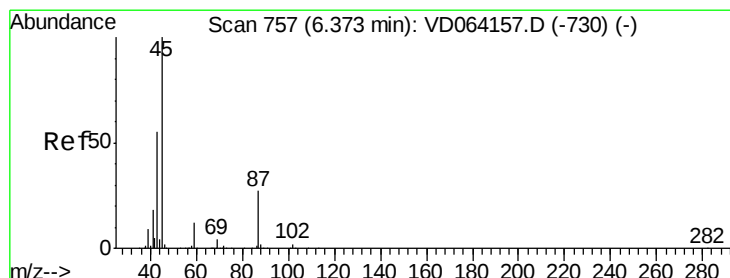
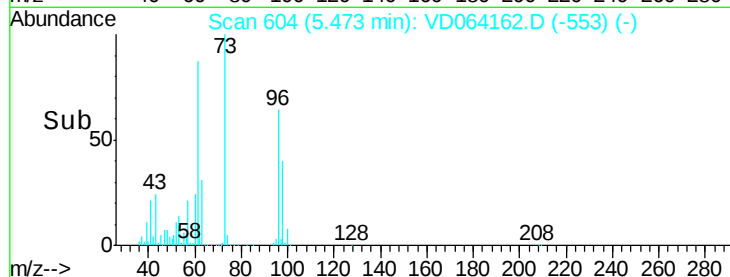
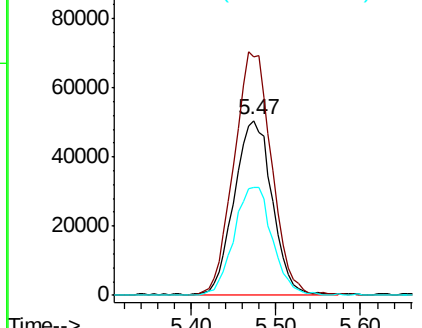
11/13/2019 11:15:01 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 19.790 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Tgt Ion: 45 Resp: 453271

Ion Ratio Lower Upper

45 100

43 59.2 44.4 66.6

87 27.4 21.9 32.9

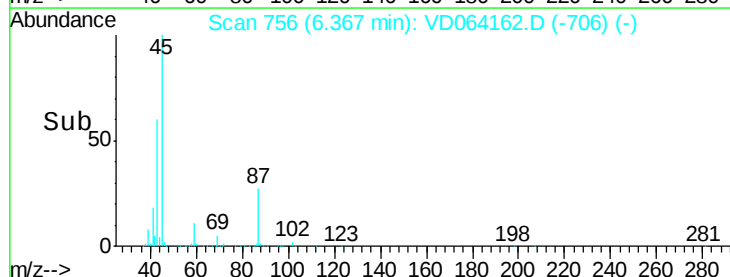
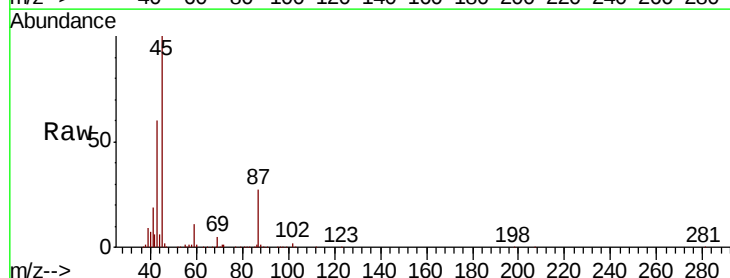
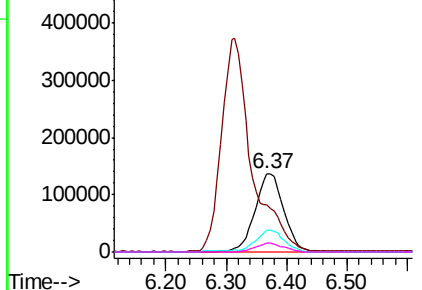
59 11.0 9.4 14.2

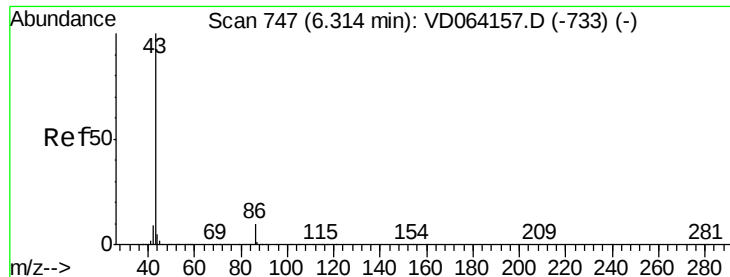
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 100.898 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 43 Resp: 1288187

Ion Ratio Lower Upper

43 100

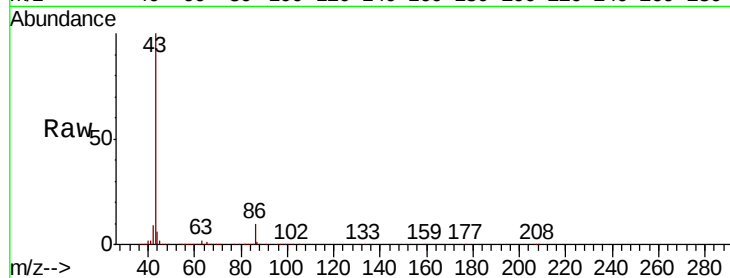
86 10.2 8.2 12.2

Manual Integrations

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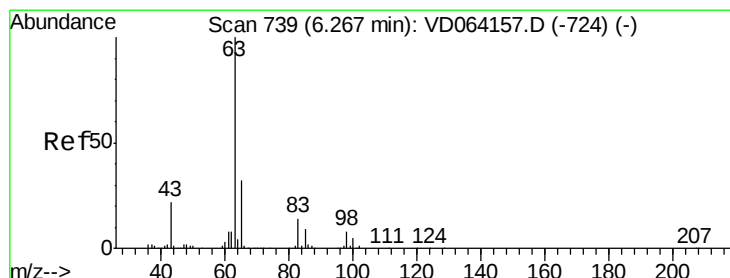
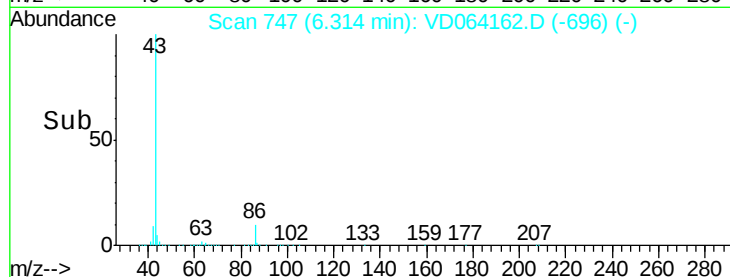
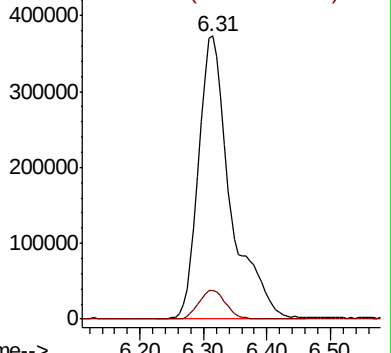
MMDadoda

11/13/2019 11:15:01 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 19.984 ug/l

RT: 6.27 min Scan# 740

Delta R.T. 0.01 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

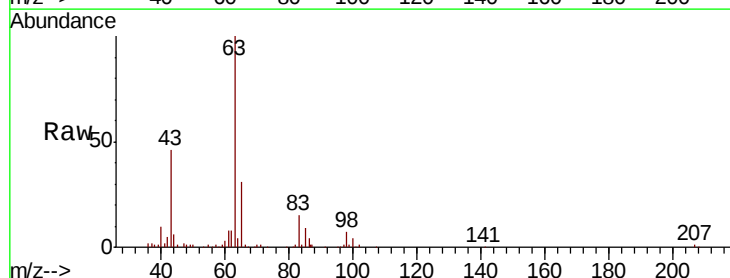
Tgt Ion: 63 Resp: 265764

Ion Ratio Lower Upper

63 100

98 7.0 3.8 11.4

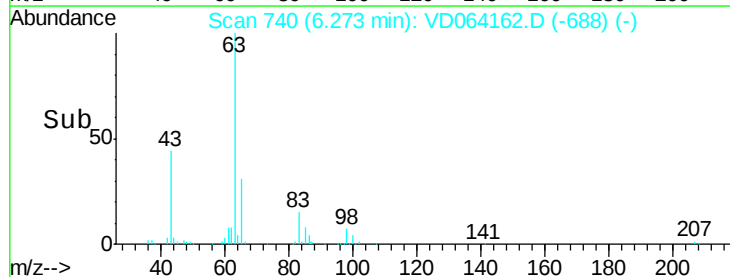
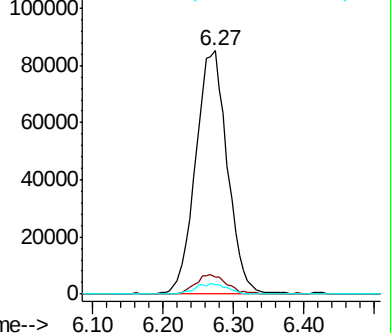
100 3.7 2.4 7.2

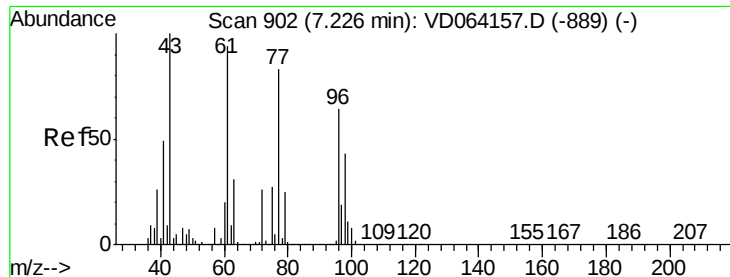


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 98.027 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 43 Resp: 205021

Ion Ratio Lower Upper

43 100

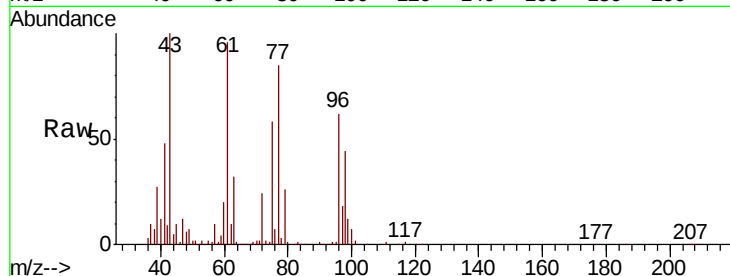
72 23.9 20.6 30.8

Manual Integrations

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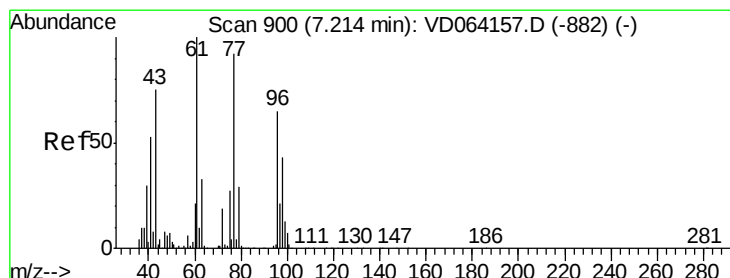
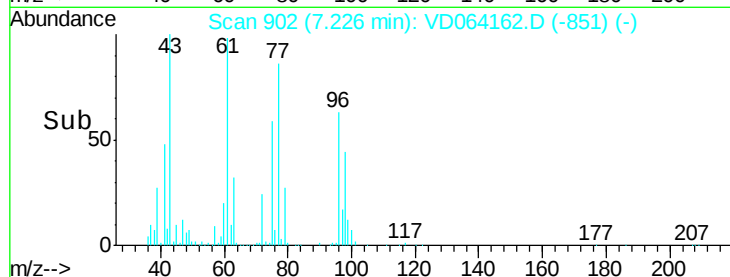
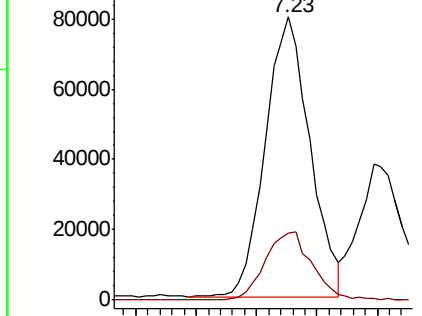
MMDadoda

11/13/2019 11:15:01 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.548 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD064162.D

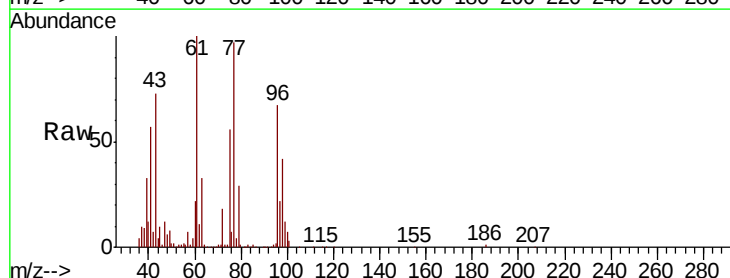
Acq: 08 Nov 2019 18:46

Tgt Ion: 77 Resp: 254935

Ion Ratio Lower Upper

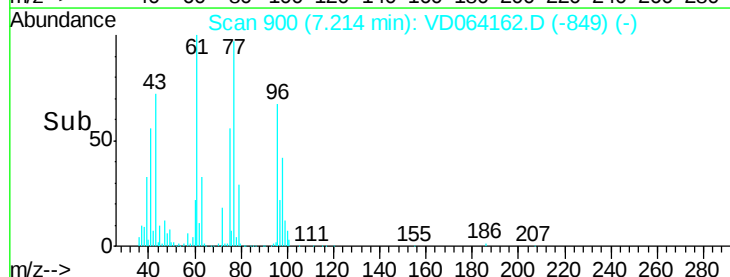
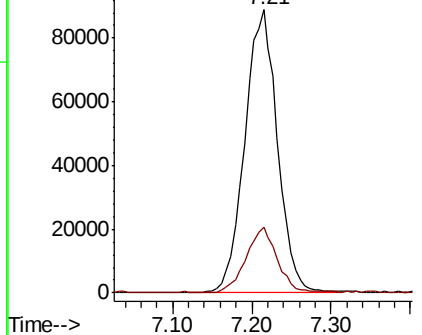
77 100

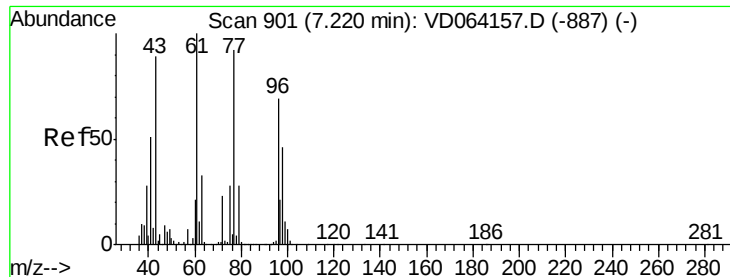
97 21.7 11.1 33.3



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

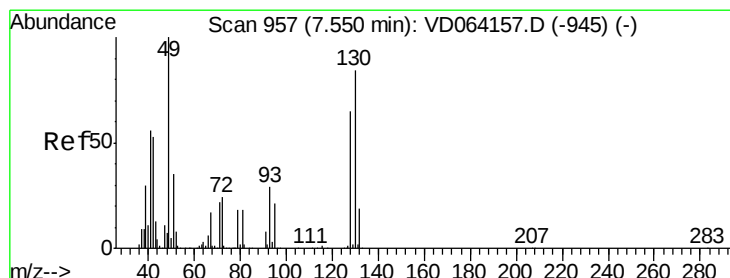
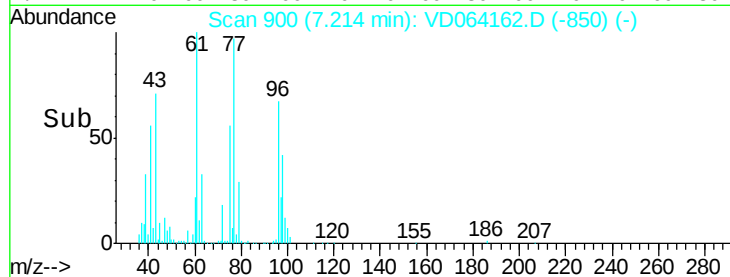
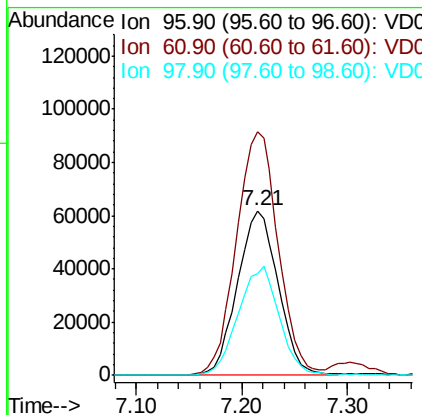
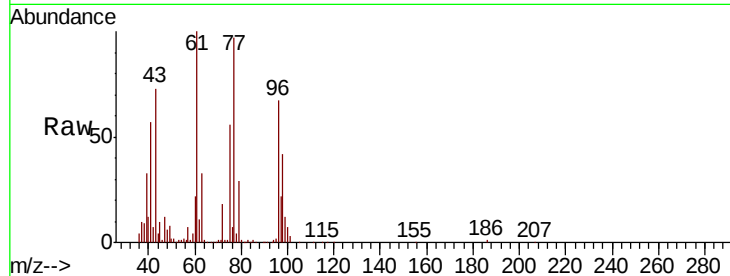
cis-1,2-Dichloroethene
Concen: 19.553 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.7	0.0	301.4
98	66.6	0.0	133.2

Manual Integrations
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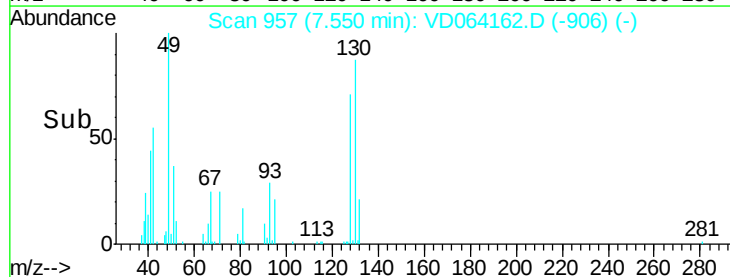
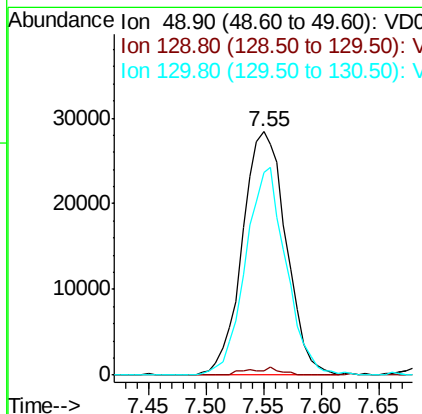
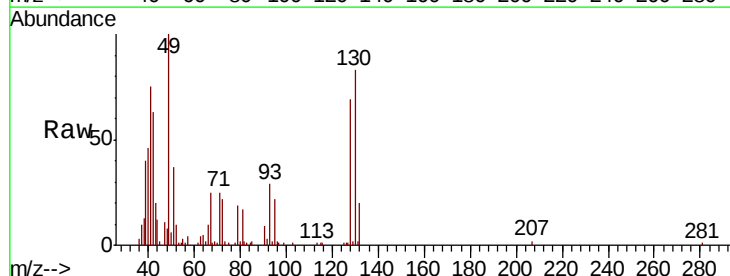
MMDadoda
11/13/2019 11:15:01 AM

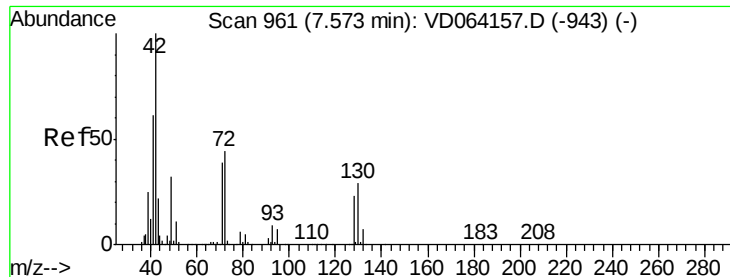


#28

Bromochloromethane
Concen: 16.203 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.4
130	79.3	66.8	100.2





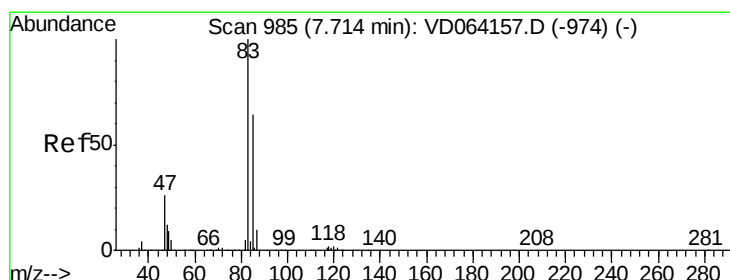
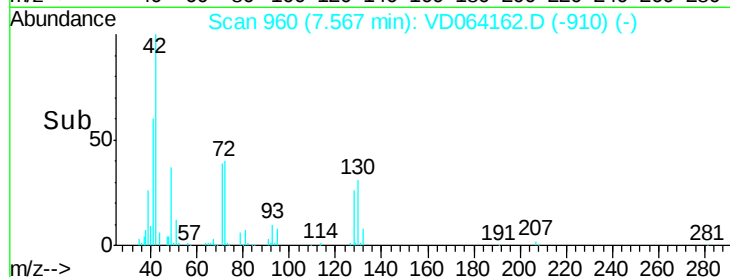
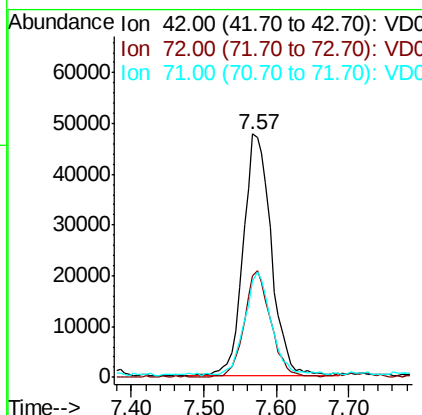
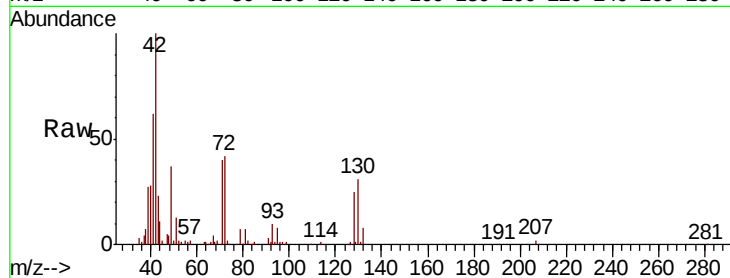
#29
Tetrahydrofuran
Concen: 100.984 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.4	50.2
71	40.0	31.0	46.4

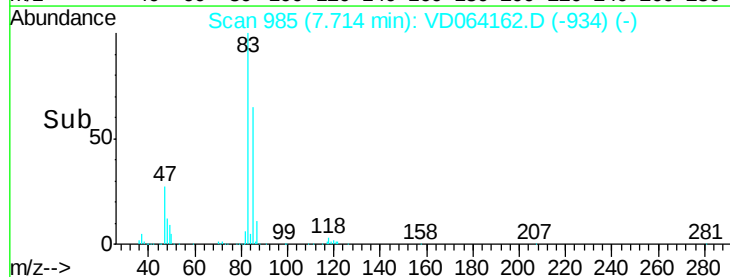
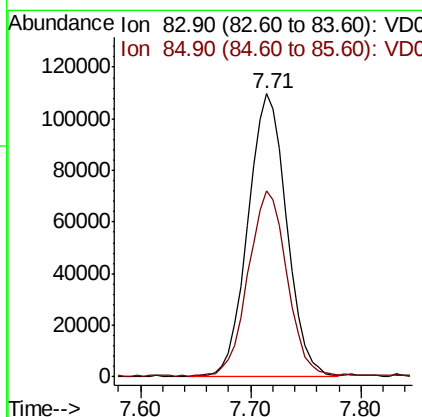
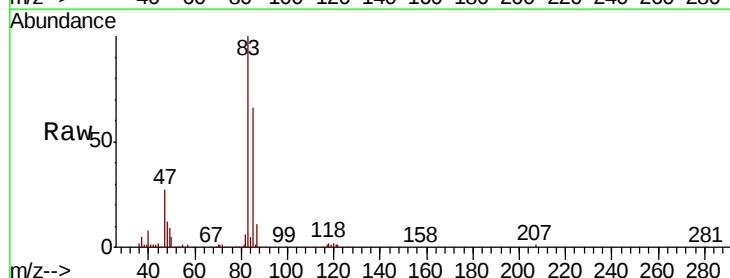
Manual Integrations
APPROVED

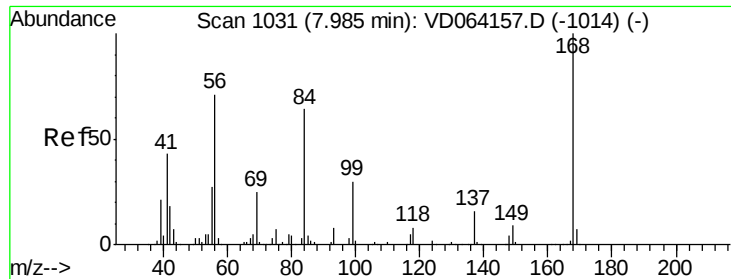
MMDadoda
11/13/2019 11:15:01 AM



#30
Chloroform
Concen: 19.889 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.4	77.0





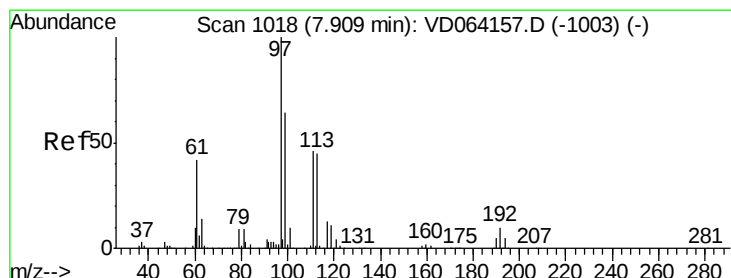
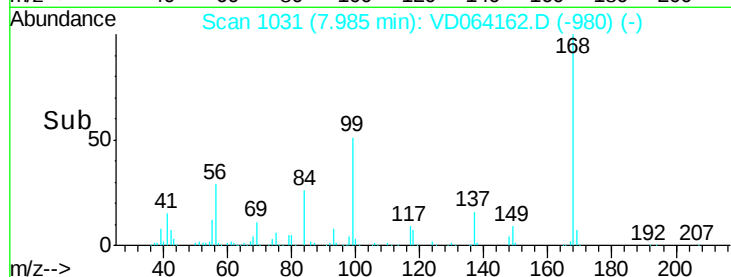
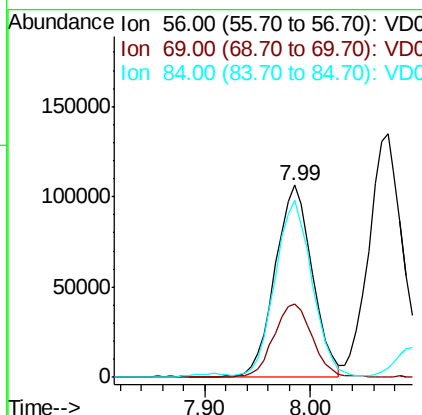
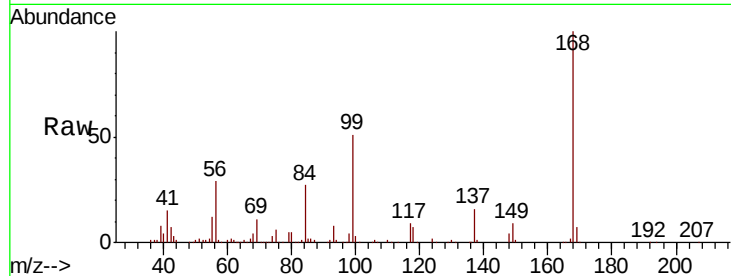
#31
Cyclohexane
Concen: 19.226 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.9	28.2	42.4
84	92.0	71.8	107.6

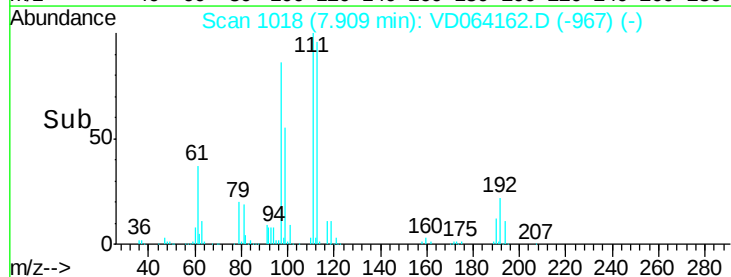
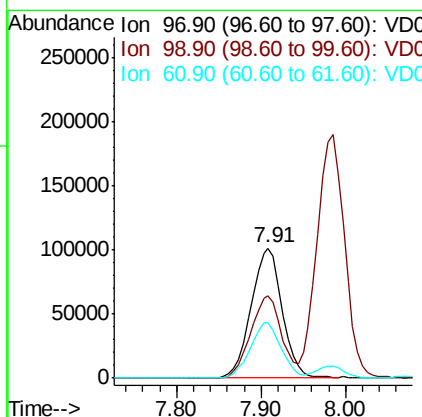
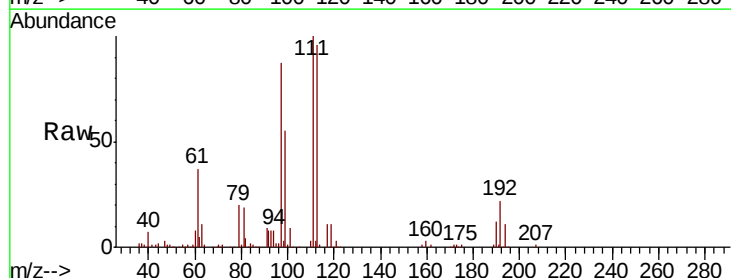
Manual Integrations
APPROVED

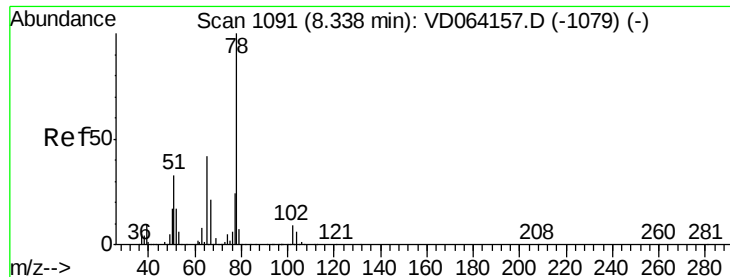
MMDadoda
11/13/2019 11:15:01 AM



#32
1,1,1-Trichloroethane
Concen: 19.988 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.6	77.4
61	42.2	34.2	51.2





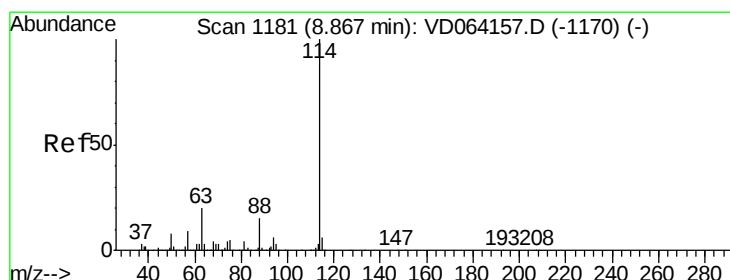
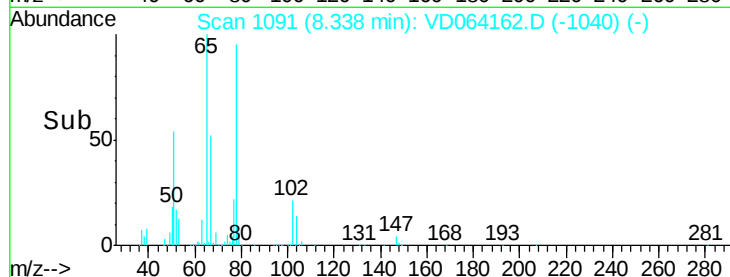
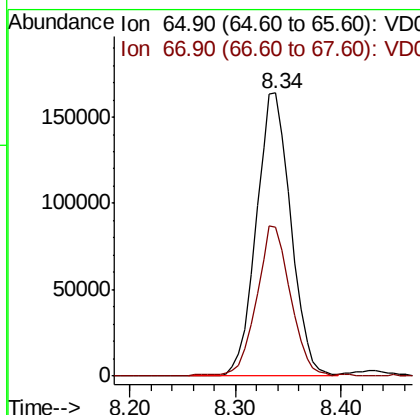
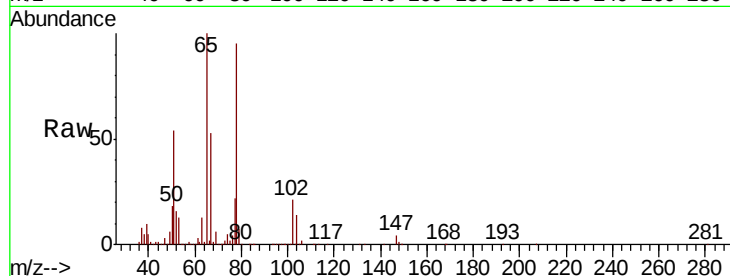
#33
 1,2-Dichloroethane-d4
 Concen: 54.389 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.3	0.0	104.4	

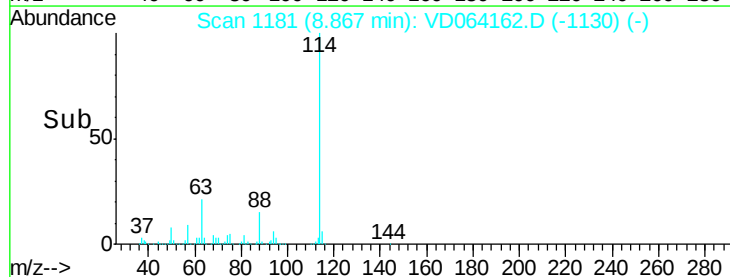
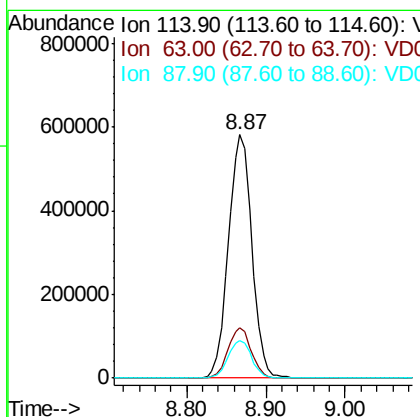
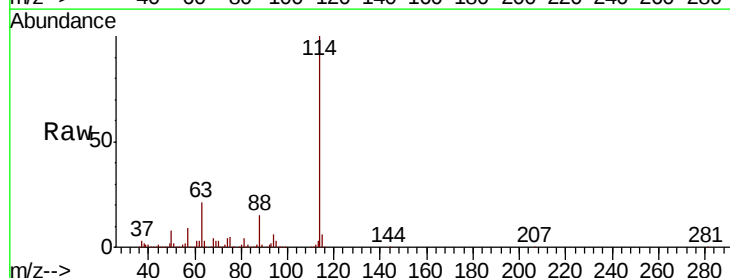
Manual Integrations
 APPROVED

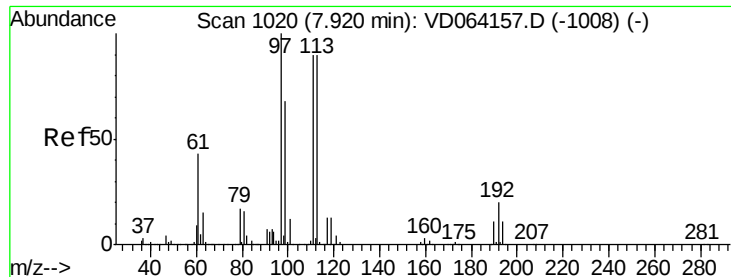
MMDadoda
 11/13/2019 11:15:01 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.9	0.0	40.0	
88	15.2	0.0	30.2	





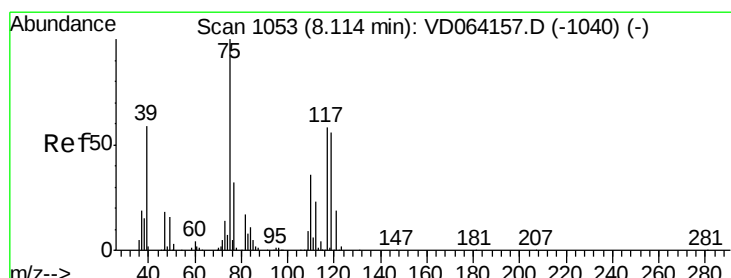
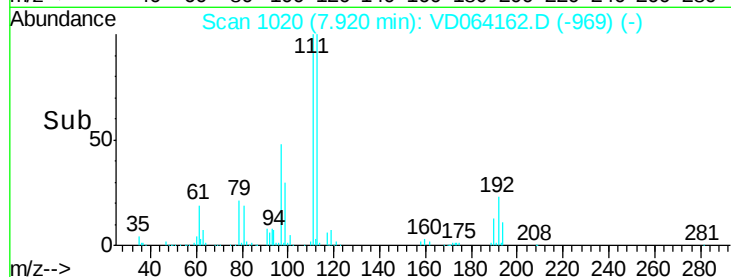
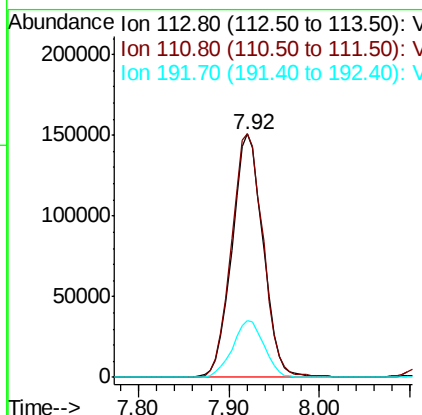
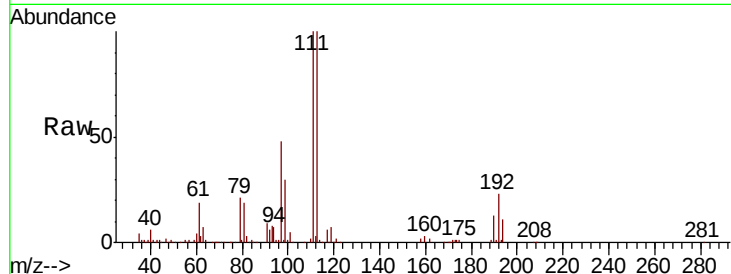
#35
Dibromofluoromethane
Concen: 52.615 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	359342		
111	102.4	81.5	122.3	
192	23.6	18.8	28.2	

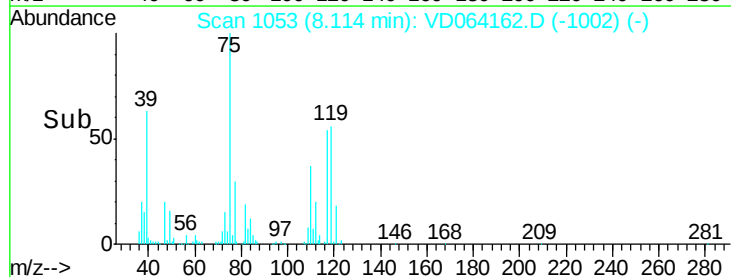
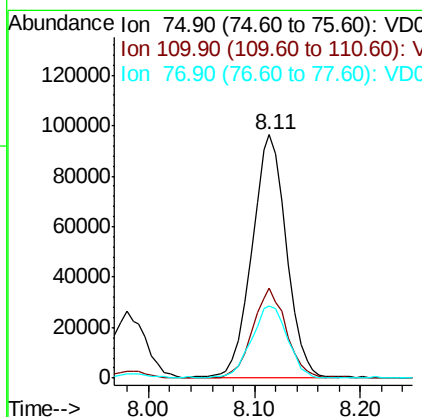
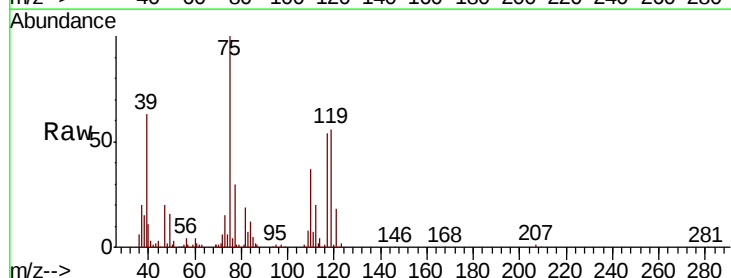
Manual Integrations
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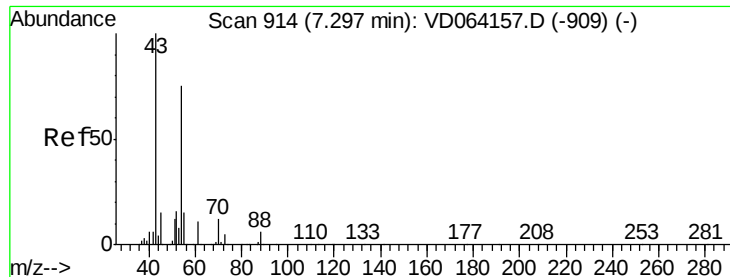
MMDadoda
11/13/2019 11:15:01 AM



#36
1,1-Dichloropropene
Concen: 19.979 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	219387		
110	36.0	18.3	54.9	
77	31.2	25.0	37.6	





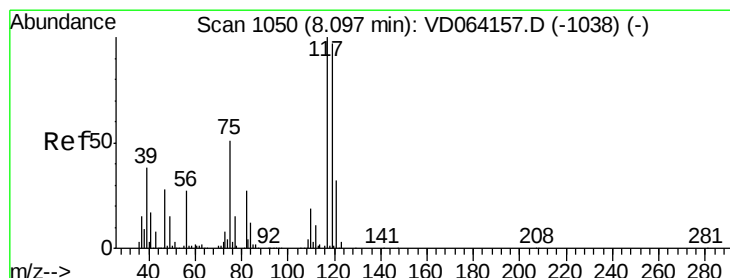
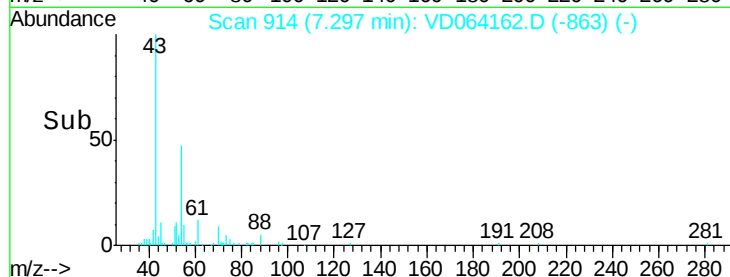
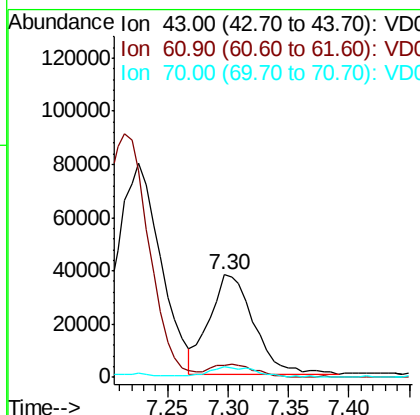
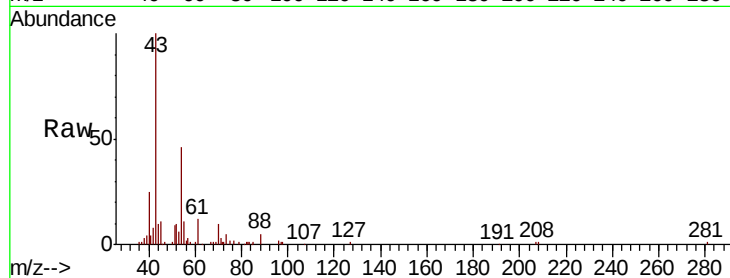
#37
Ethyl Acetate
Concen: 20.800 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.2	15.2
70	9.9	8.5	12.7

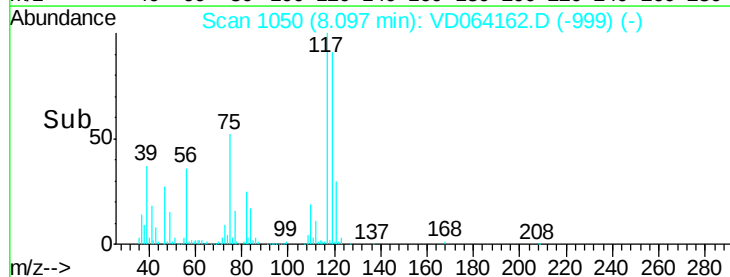
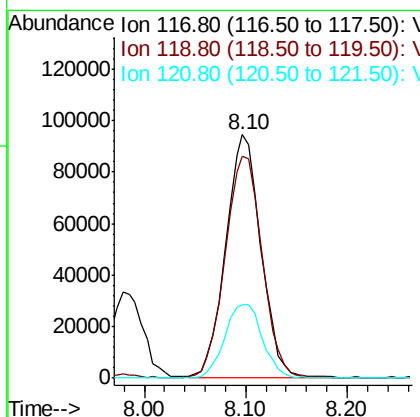
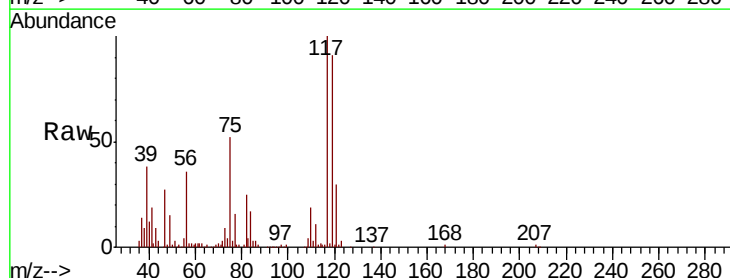
Manual Integrations
APPROVED

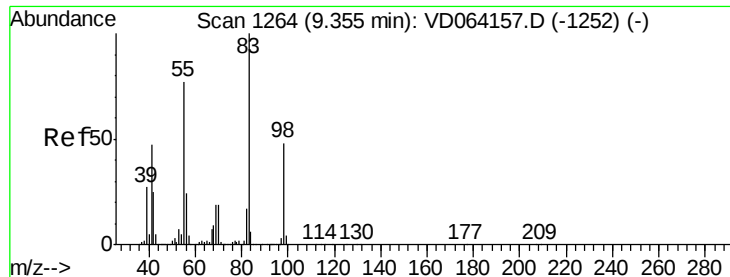
MMDadoda
11/13/2019 11:15:01 AM



#38
Carbon Tetrachloride
Concen: 19.396 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.7	77.2	115.8
121	30.1	25.5	38.3





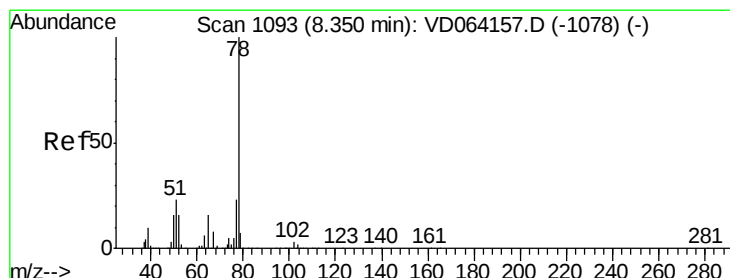
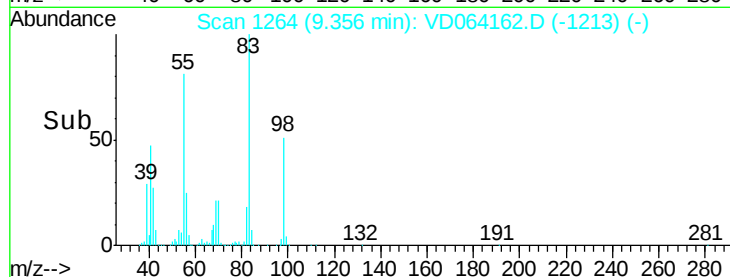
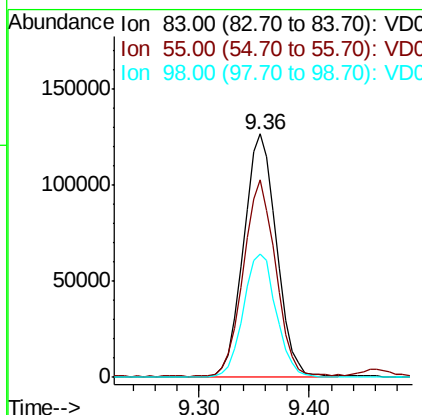
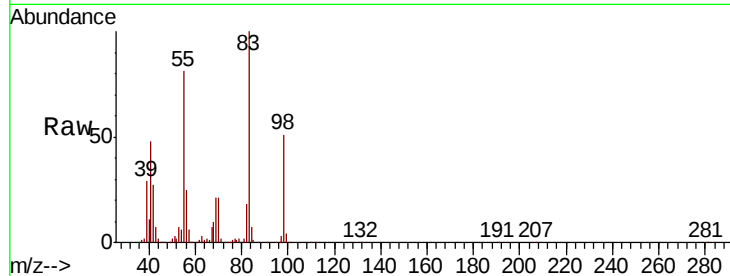
#39
Methvlcvclohexane
Concen: 19.188 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.0	61.7	92.5
98	50.7	38.6	58.0

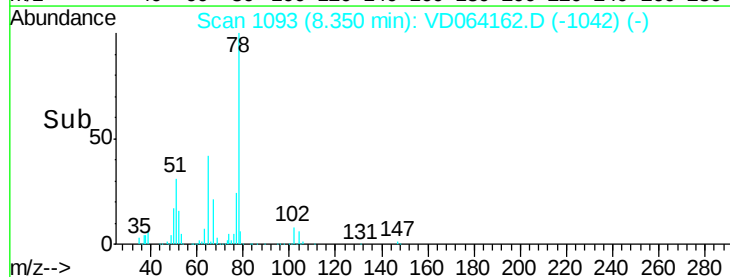
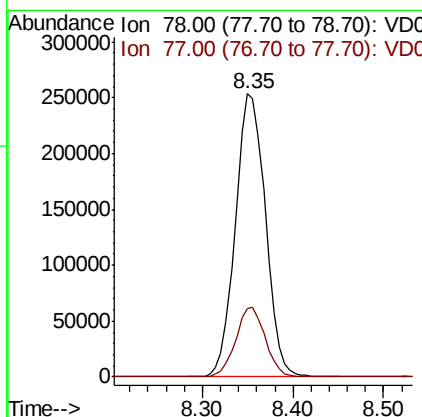
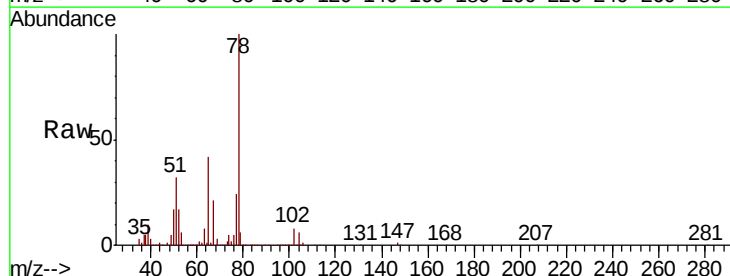
Manual Integrations
APPROVED

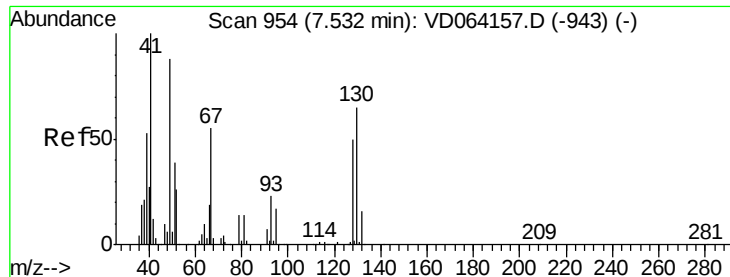
MMDadoda
11/13/2019 11:15:01 AM



#40
Benzene
Concen: 19.523 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0





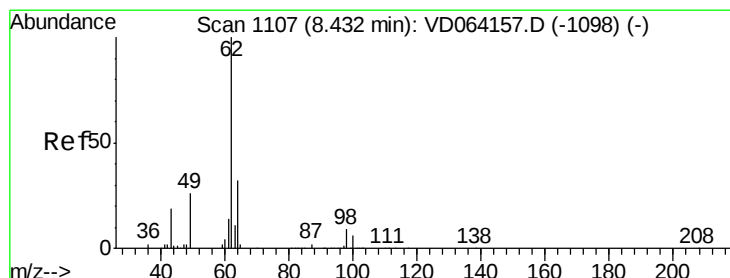
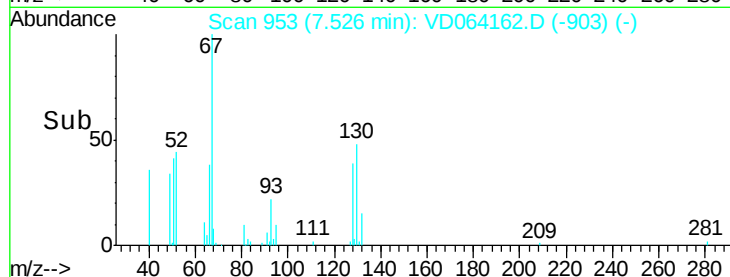
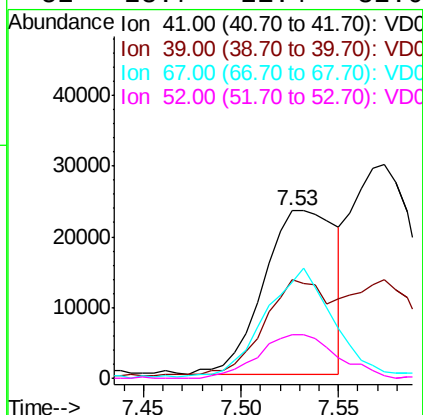
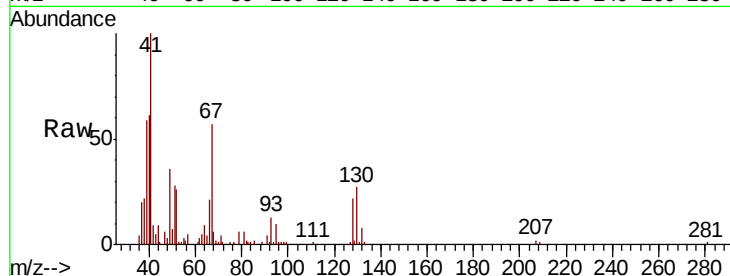
#41
Methacrylonitrile
Concen: 20.444 ug/l
RT: 7.53 min Scan# 953
Delta R.T. -0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	41	Resp	59483
Ion	Ratio	Lower	Upper
41	100		
39	48.9	49.4	74.2#
67	65.6	49.6	74.4
52	28.7	21.4	32.0

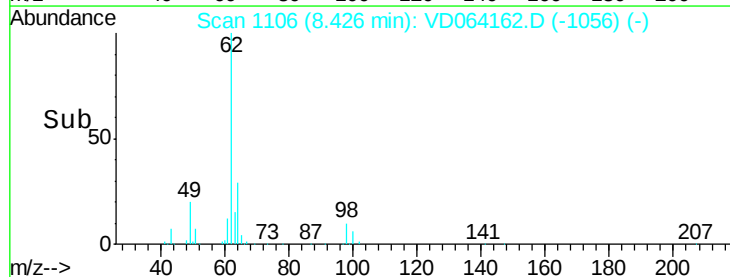
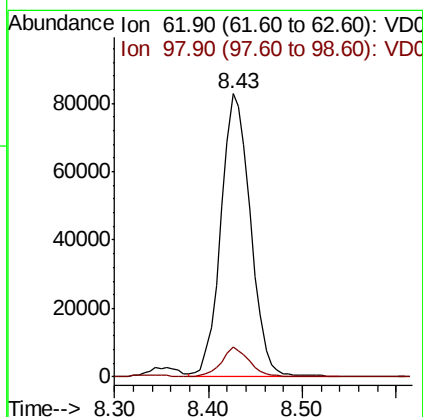
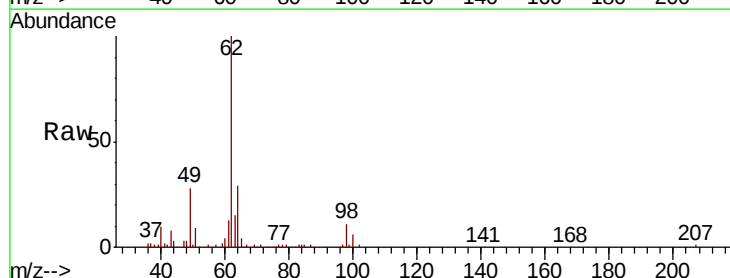
Manual Integrations
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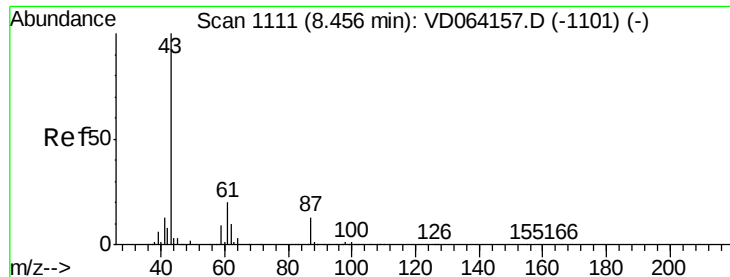
MMDadoda
11/13/2019 11:15:01 AM



#42
1,2-Dichloroethane
Concen: 20.142 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	62	Resp	181547
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





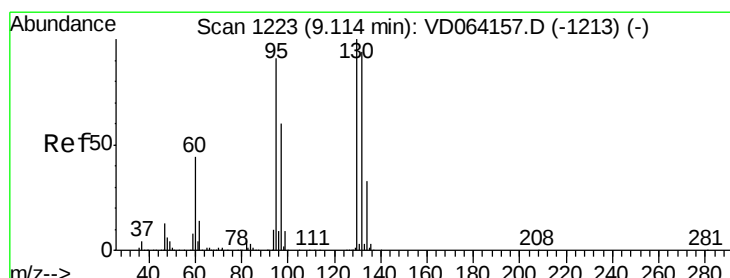
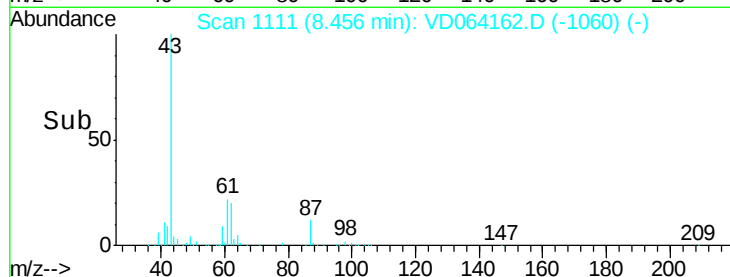
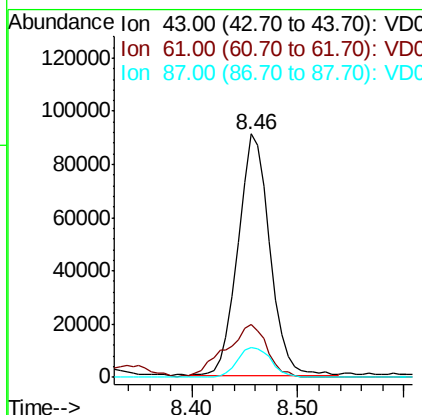
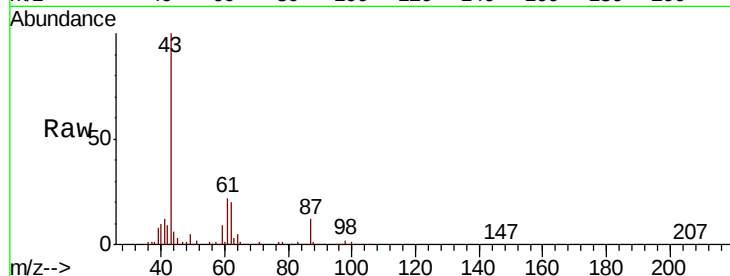
#43
Isopropyl Acetate
Concen: 19.787 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.9	22.9	34.3
87	13.0	10.2	15.2

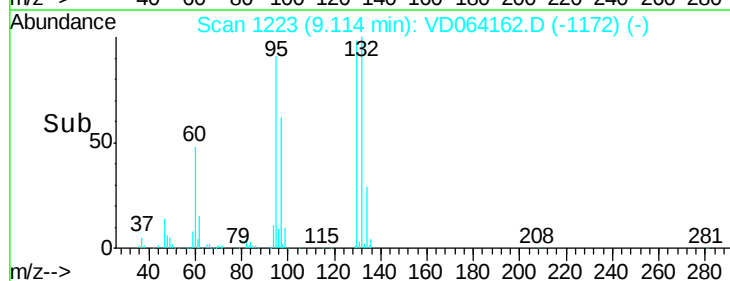
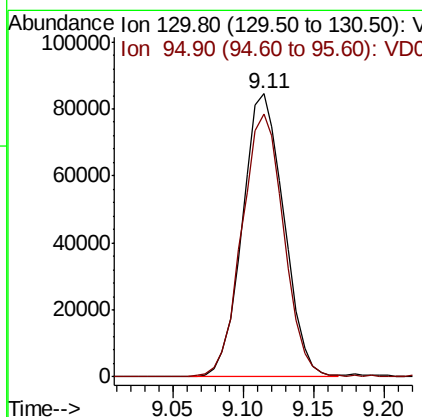
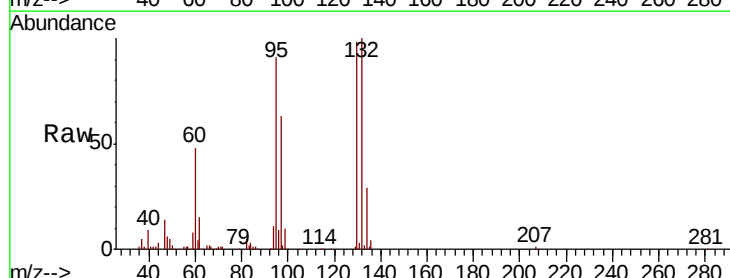
Manual Integrations
APPROVED

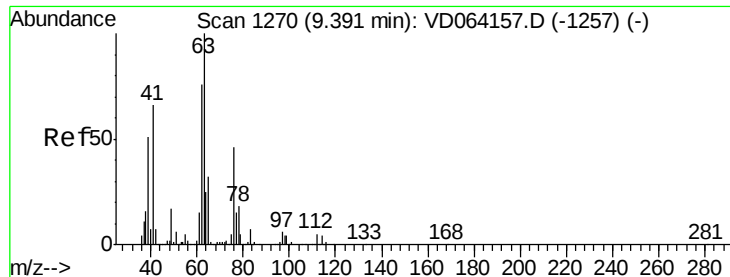
MMDadoda
11/13/2019 11:15:01 AM



#44
Trichloroethene
Concen: 19.370 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	181.6





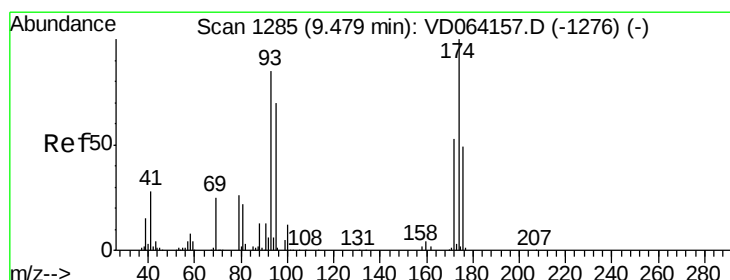
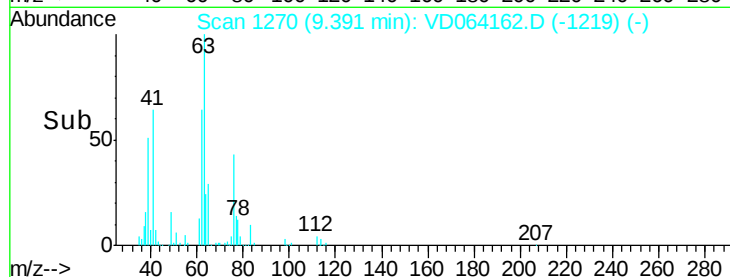
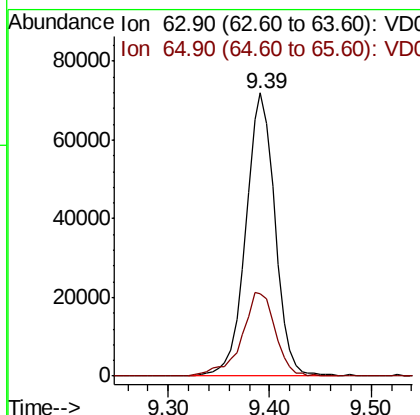
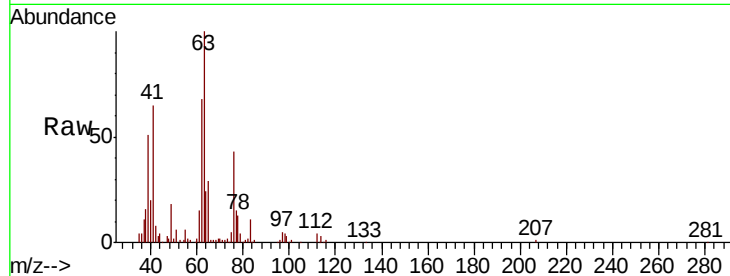
#45
 1,2-Dichloropropane
 Concen: 19.703 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.8	25.7	38.5

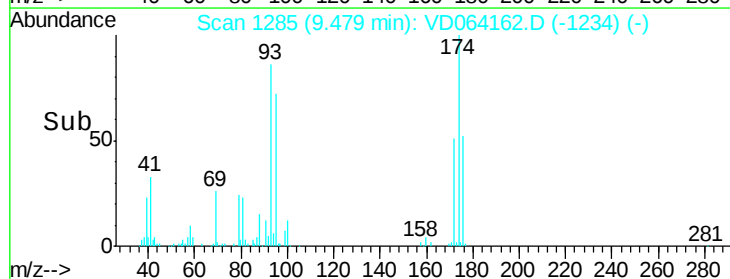
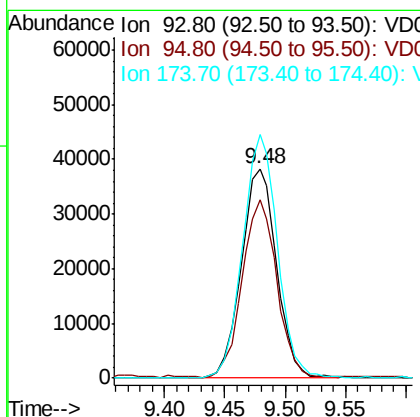
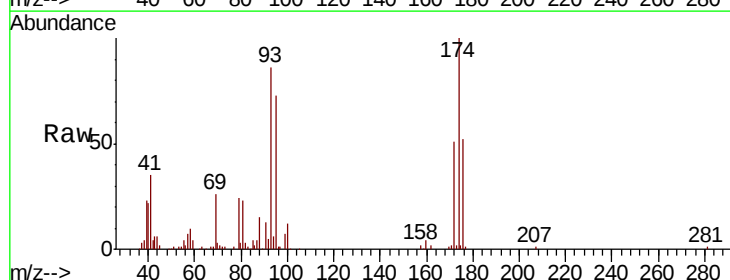
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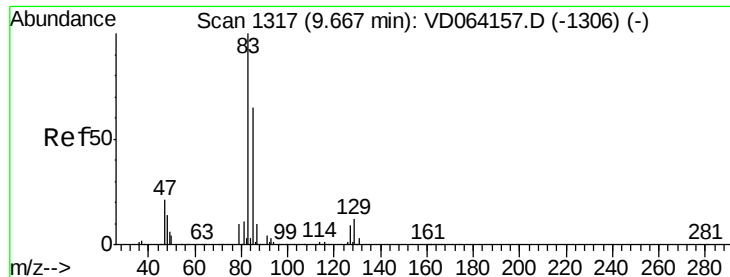
MMDadoda
 11/13/2019 11:15:01 AM



#46
 Dibromomethane
 Concen: 19.937 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.5	98.3
174	114.5	93.9	140.9





#47

Bromodichloromethane

Concen: 19.723 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

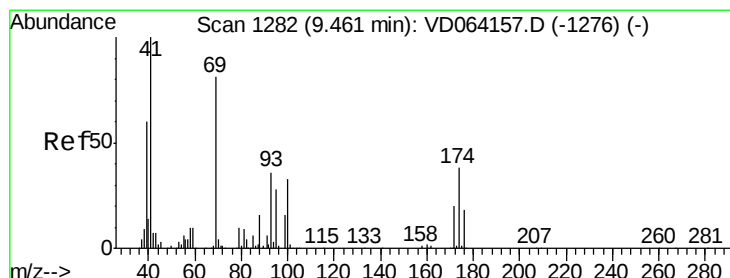
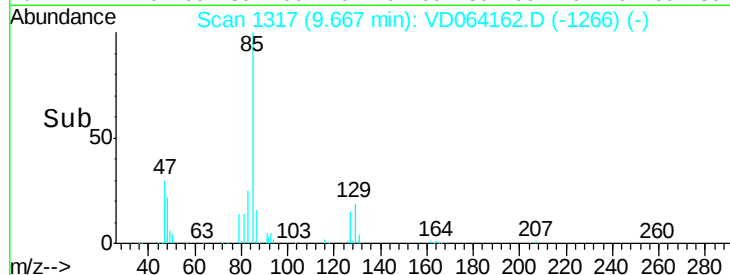
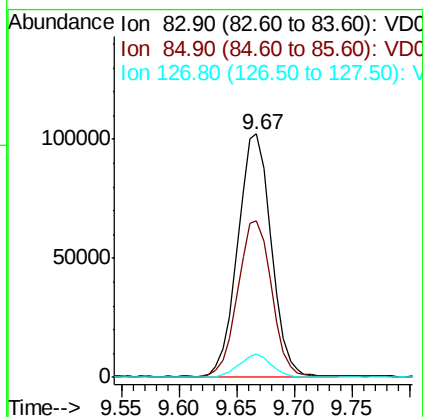
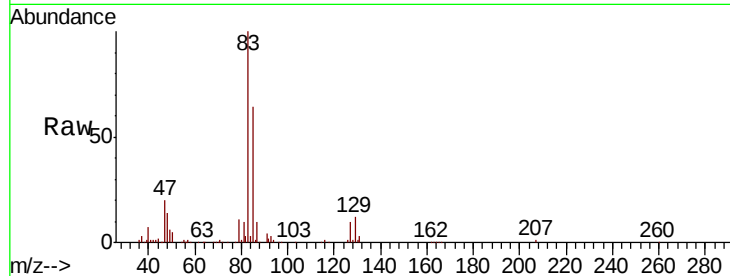
ClientSampleId :

VD1108SBS01

Tot Ion:	83	Resp:	207754
Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.2	78.4
127	9.8	7.5	11.3

Manual Integrations
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MMDadoda
11/13/2019 11:15:01 AM



#48

Methyl methacrylate

Concen: 19.371 ug/l

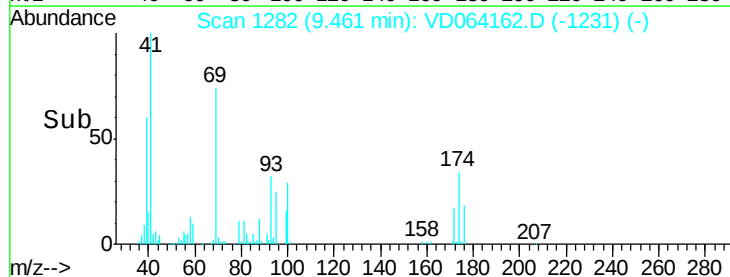
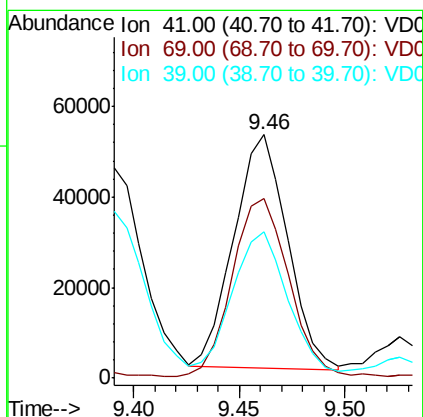
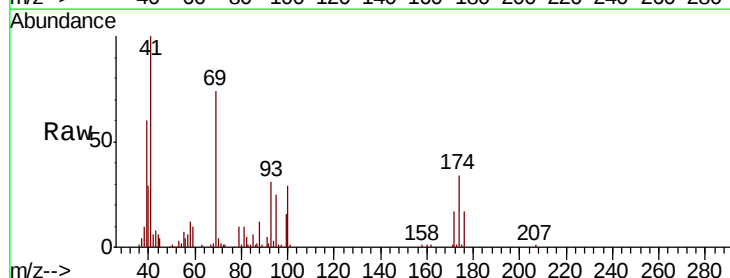
RT: 9.46 min Scan# 1282

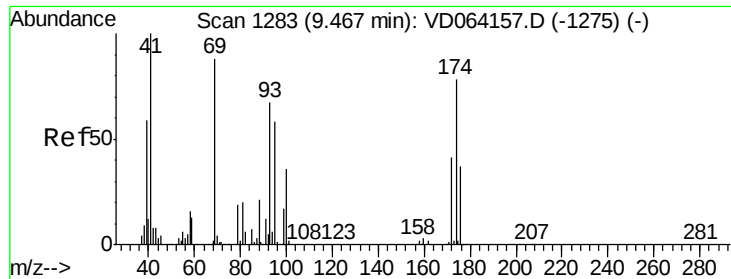
Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Tgt Ion:	41	Resp:	90346
Ion	Ratio	Lower	Upper
41	100		
69	81.2	64.6	97.0
39	60.7	48.2	72.2





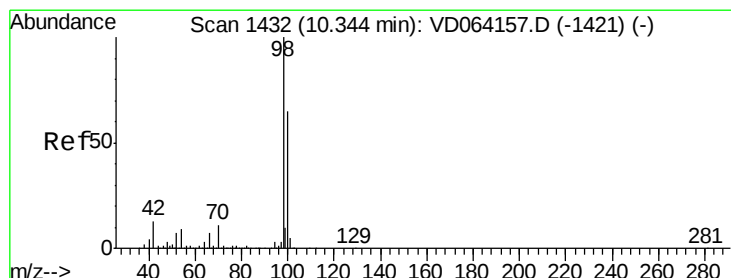
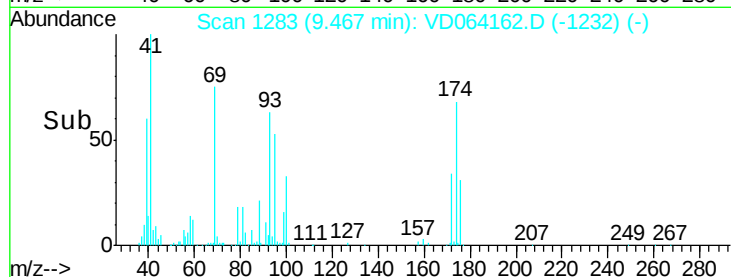
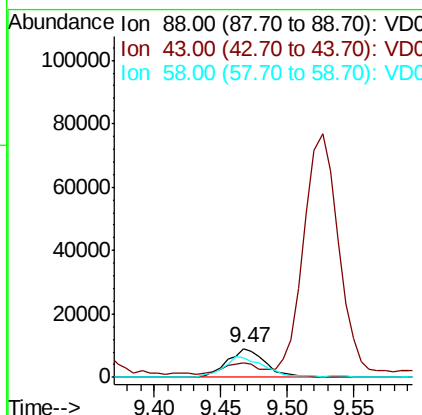
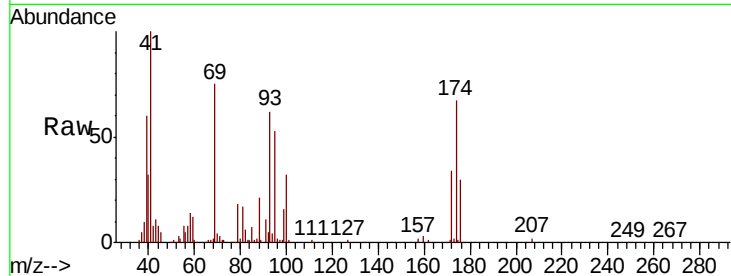
#49
1,4-Dioxane
Concen: 387.836 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.2	29.8	44.8
58	75.5	58.1	87.1

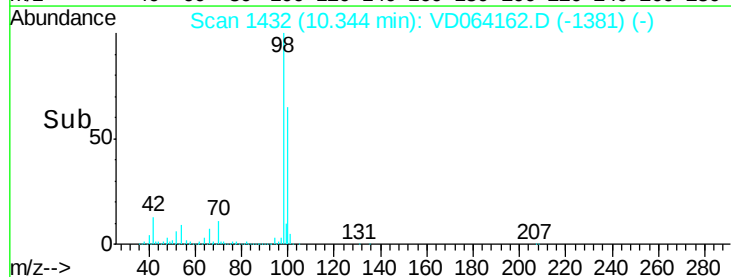
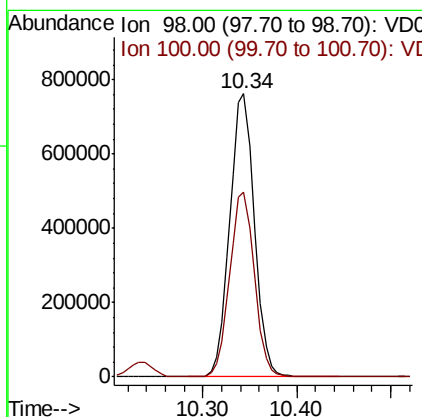
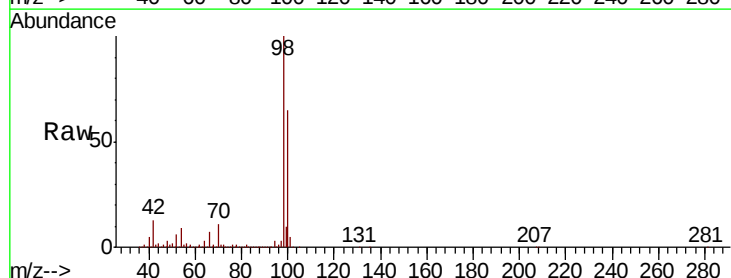
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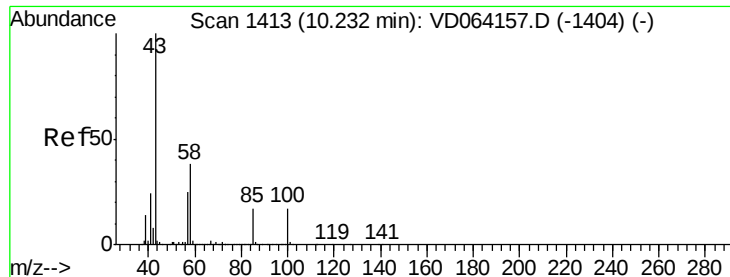
MMDadoda
11/13/2019 11:15:01 AM



#50
Toluene-d8
Concen: 53.801 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.6	78.8





#51

4-Methyl-2-Pentanone

Concen: 100.653 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 43 Resp: 460387

Ion Ratio Lower Upper

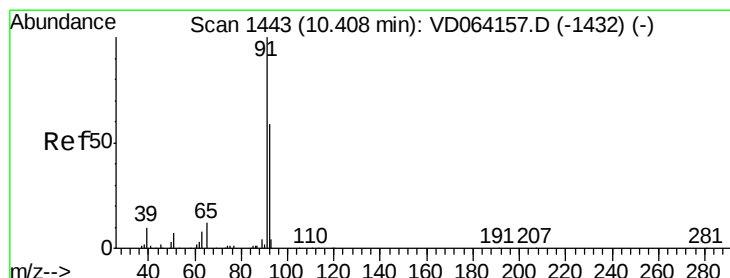
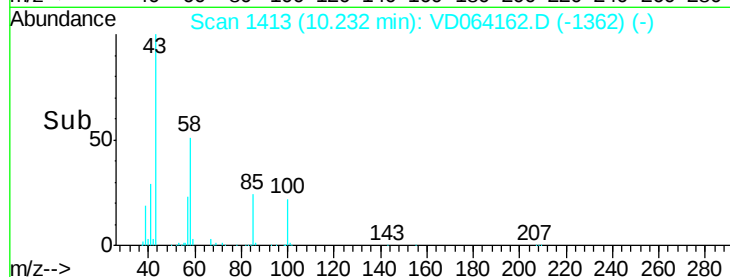
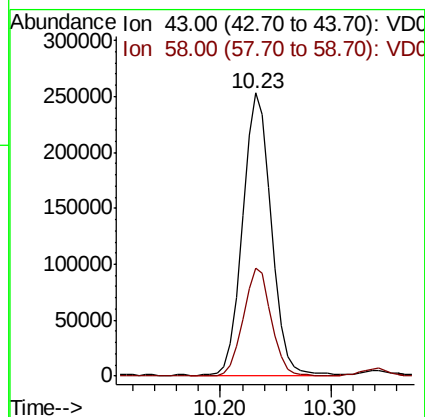
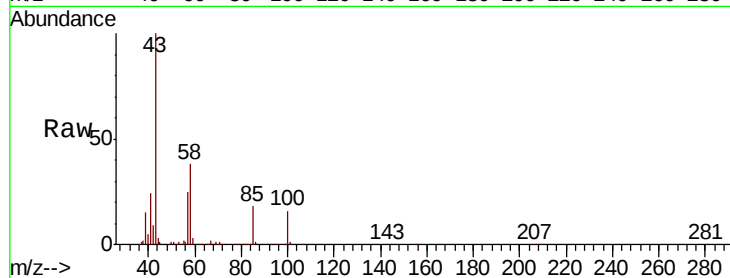
43 100

58 37.7 30.2 45.4

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#52

Toluene

Concen: 19.637 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD064162.D

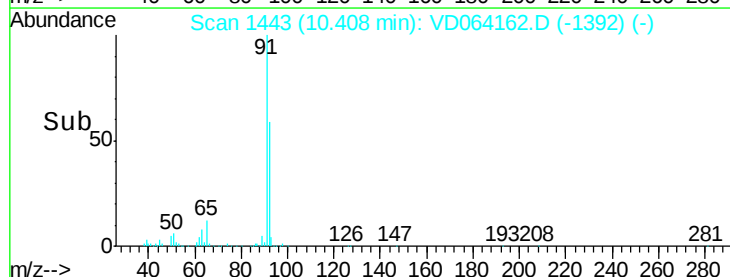
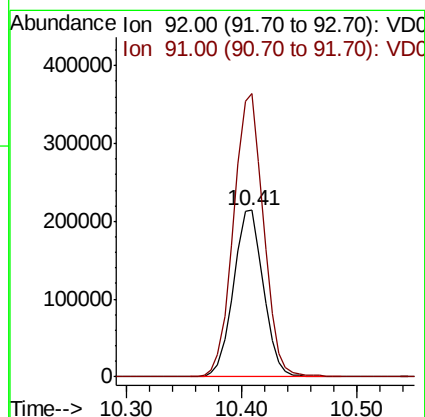
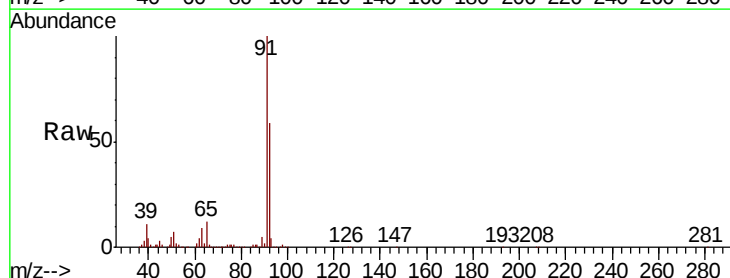
Acq: 08 Nov 2019 18:46

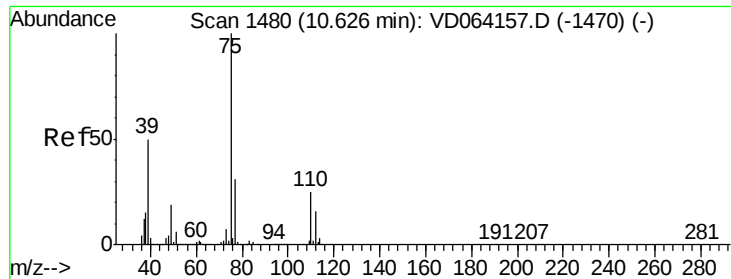
Tgt Ion: 92 Resp: 387516

Ion Ratio Lower Upper

92 100

91 169.3 136.4 204.6





#53

t-1,3-Dichloropropene

Concen: 19.523 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 75 Resp: 206022

Ion Ratio Lower Upper

75 100

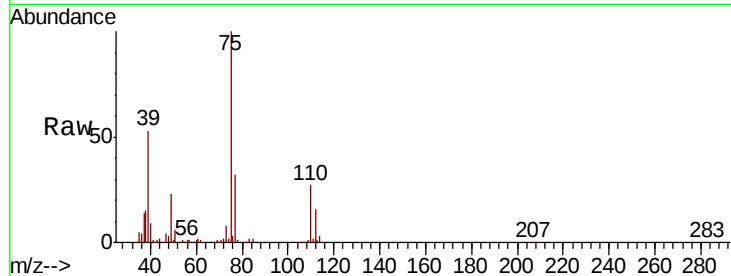
77 31.6 24.7 37.1

Manual Integrations

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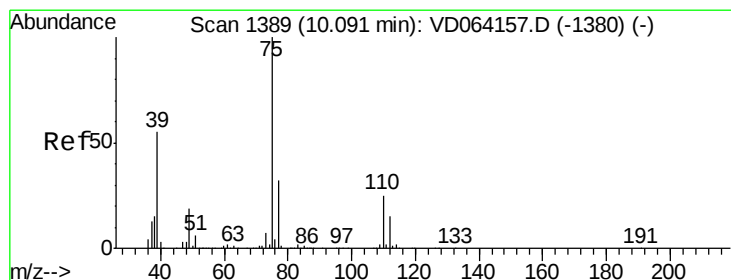
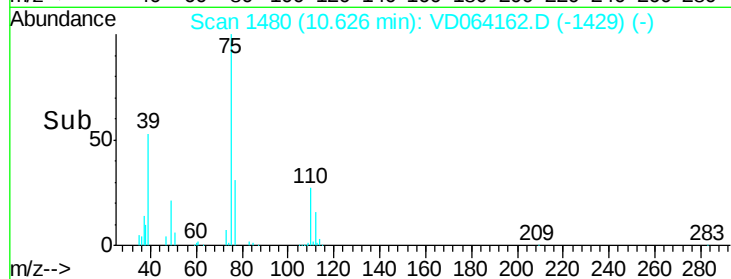
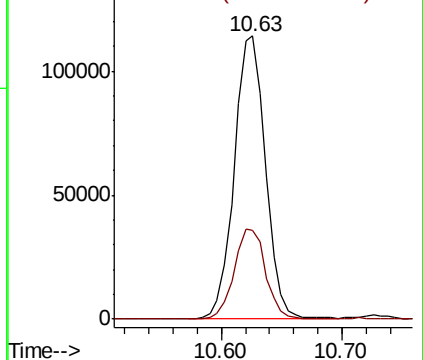
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Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 19.226 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

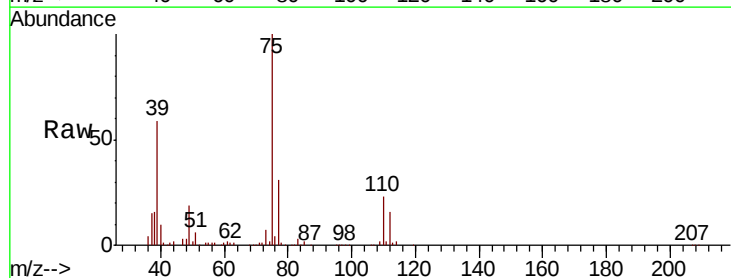
Tgt Ion: 75 Resp: 236757

Ion Ratio Lower Upper

75 100

77 30.9 25.2 37.8

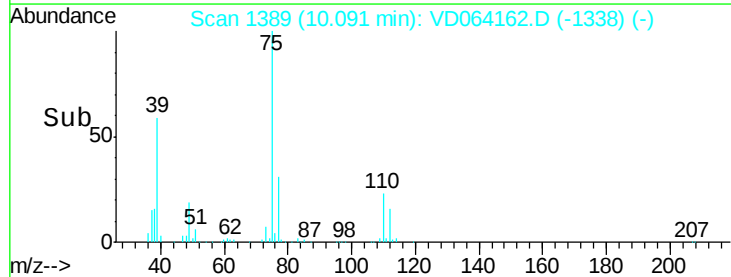
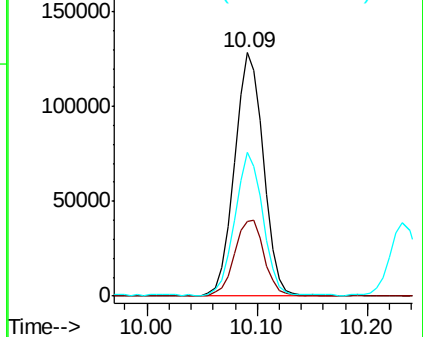
39 58.8 44.2 66.2

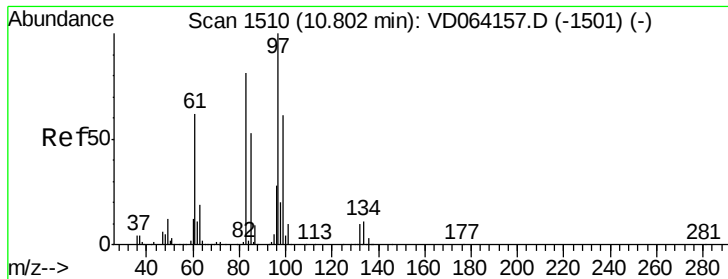


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC





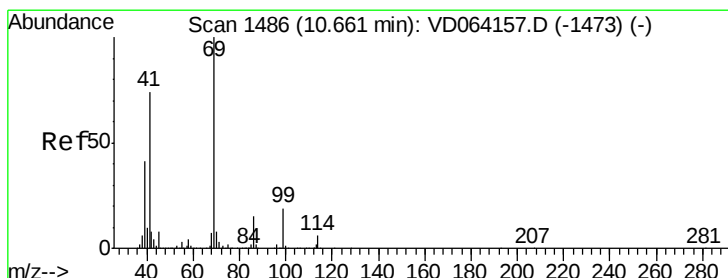
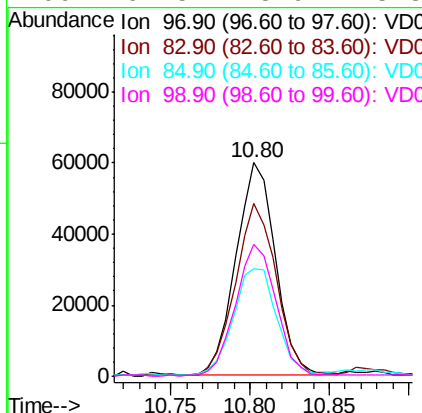
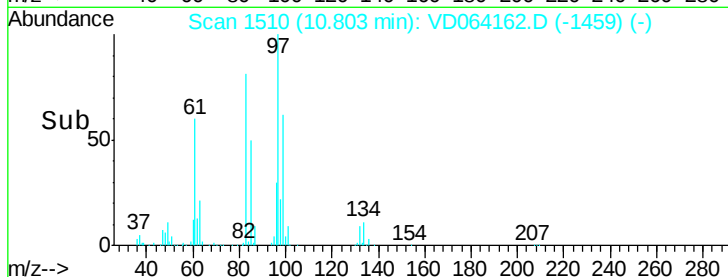
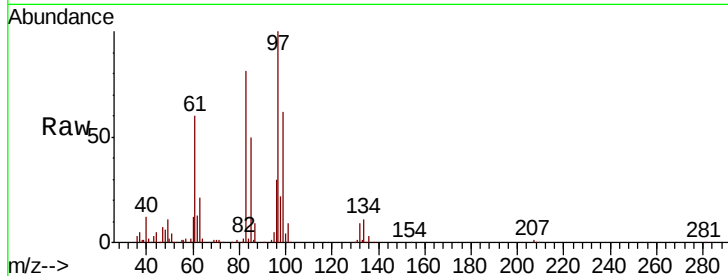
#55
 1,1,2-Trichloroethane
 Concen: 19.560 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Tot Ion:	97	Resp:	103765
Ion	Ratio	Lower	Upper
97	100		
83	80.9	65.1	97.7
85	50.0	42.0	63.0
99	61.5	48.9	73.3

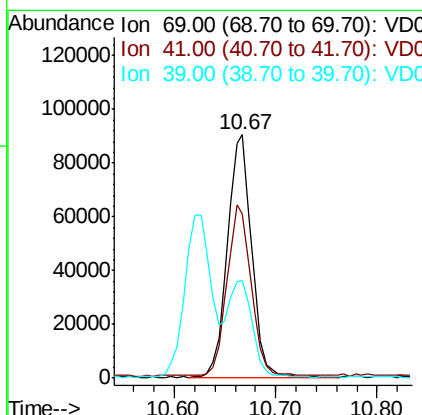
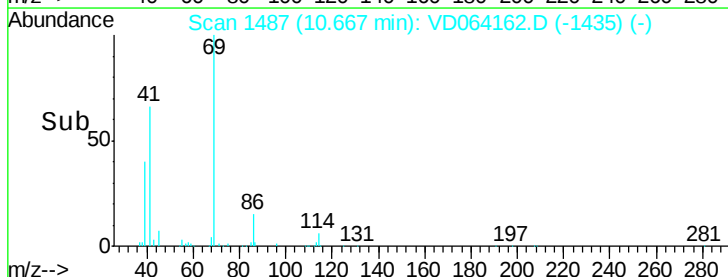
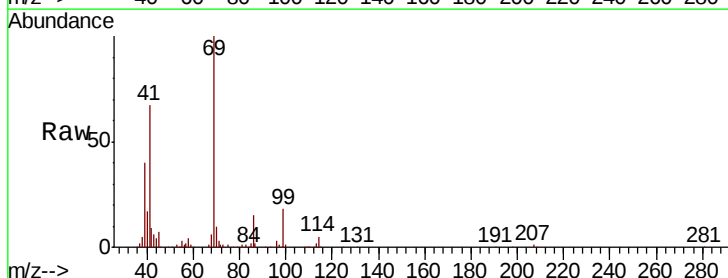
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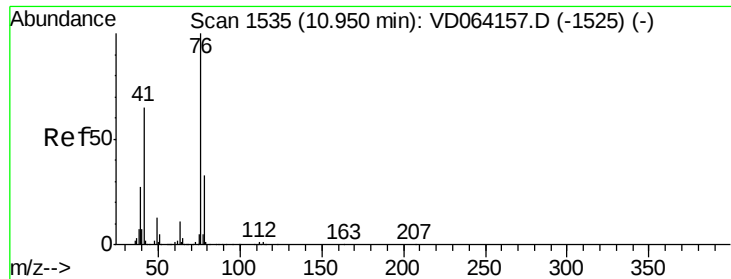
MMDadoda
 11/13/2019 11:15:01 AM



#56
 Ethyl methacrylate
 Concen: 20.014 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Tgt Ion:	69	Resp:	148525
Ion	Ratio	Lower	Upper
69	100		
41	70.4	57.9	86.9
39	42.4	29.0	43.4





#57

1,3-Dichloropropane

Concen: 19.785 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 76 Resp: 183052

Ion Ratio Lower Upper

76 100

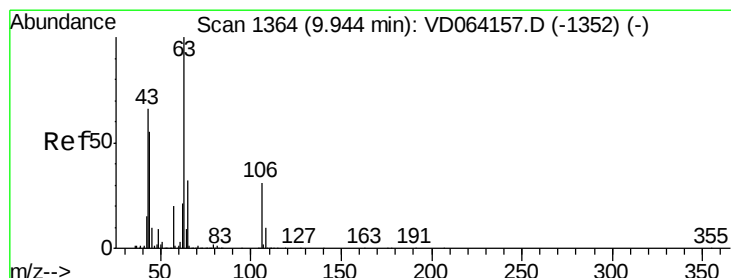
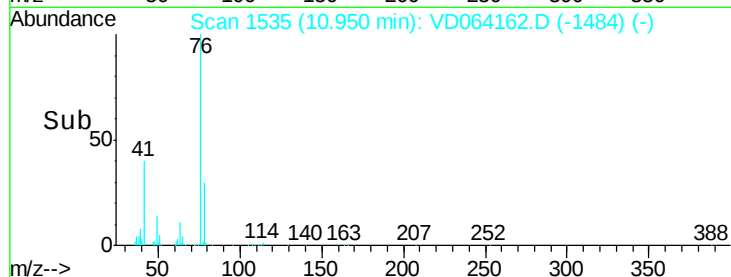
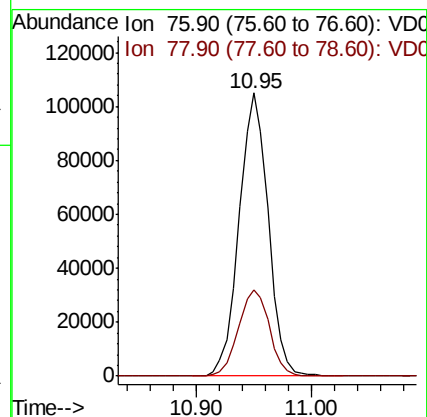
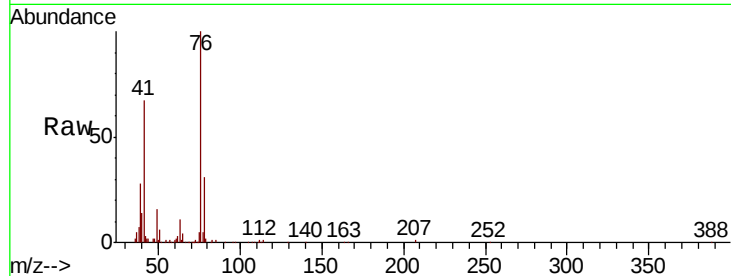
78 32.5 26.2 39.4

Manual Integrations

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MMDadoda

11/13/2019 11:15:01 AM



#58

2-Chloroethyl Vinyl ether

Concen: 100.150 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD064162.D

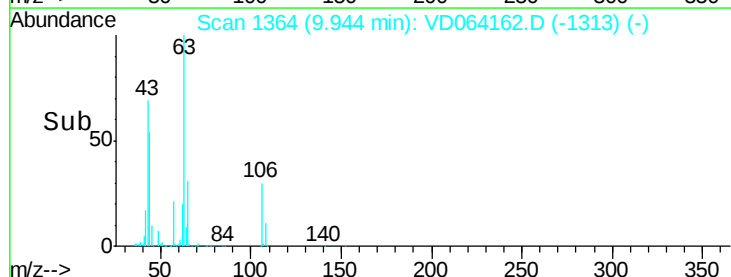
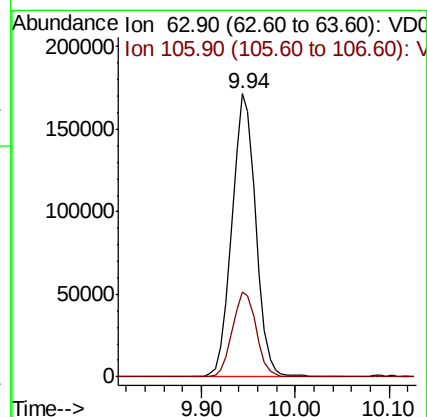
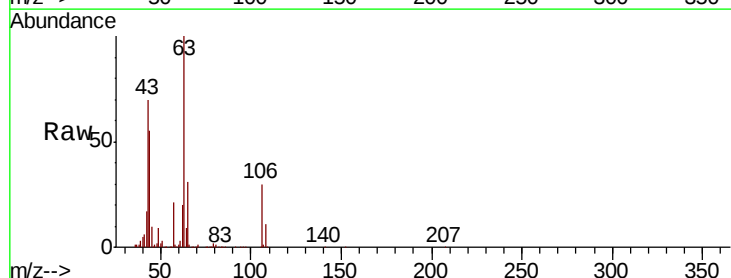
Acq: 08 Nov 2019 18:46

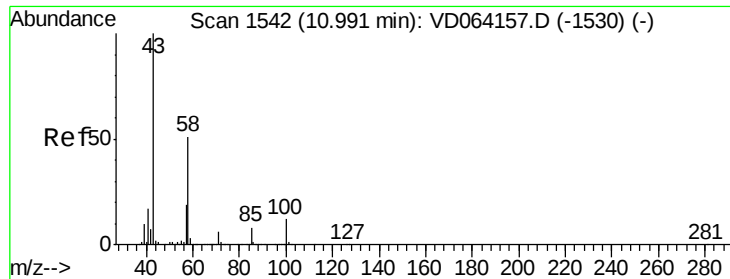
Tgt Ion: 63 Resp: 301054

Ion Ratio Lower Upper

63 100

106 30.3 24.1 36.1





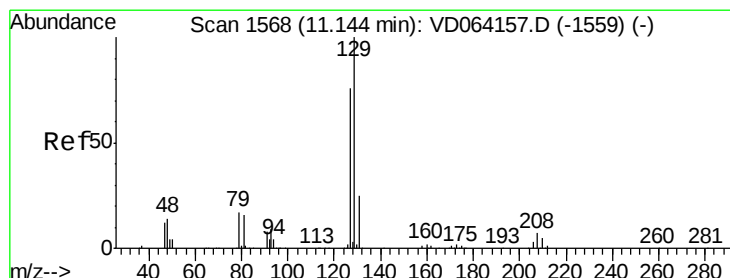
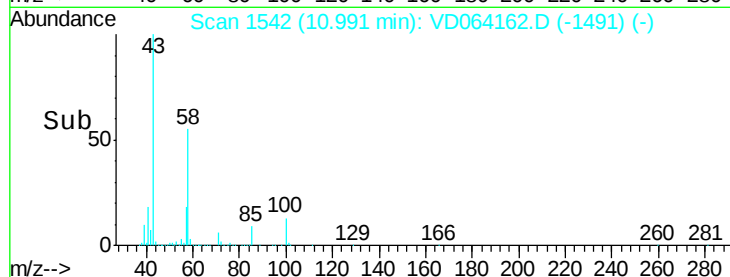
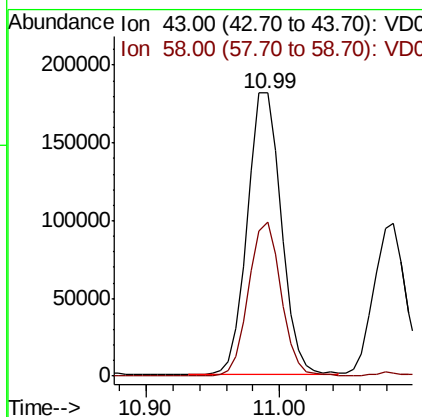
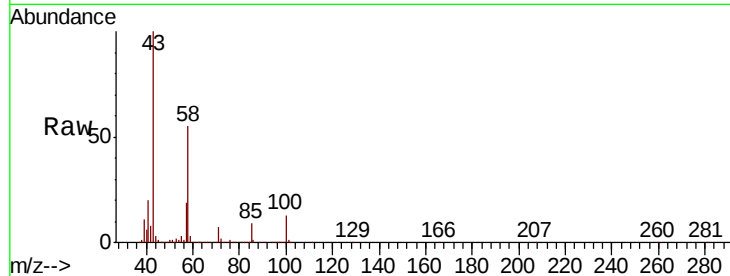
#59
2-Hexanone
Concen: 97.839 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion: 43 Resp: 318381
Ion Ratio Lower Upper
43 100
58 52.6 25.9 77.7

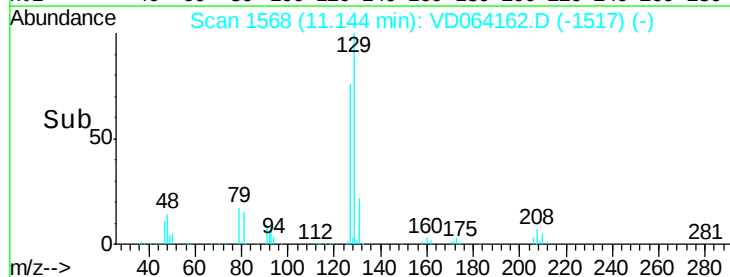
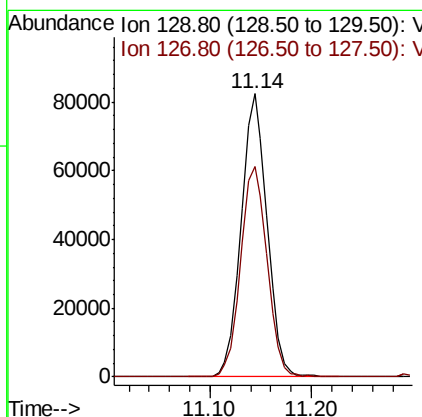
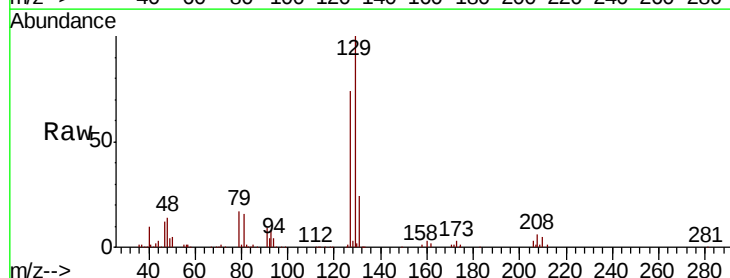
Manual Integrations
APPROVED

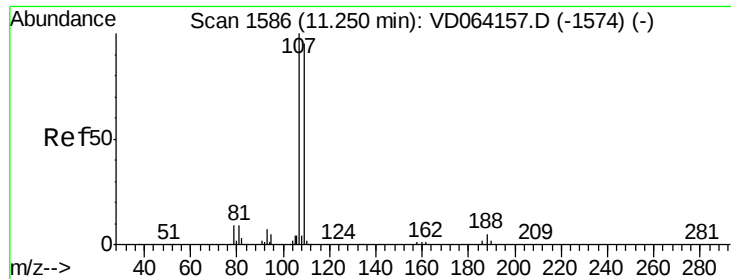
MMDadoda
11/13/2019 11:15:01 AM



#60
Dibromochloromethane
Concen: 19.763 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion: 129 Resp: 146297
Ion Ratio Lower Upper
129 100
127 75.8 38.6 115.8





#61

1,2-Dibromoethane

Concen: 19.769 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 107 Resp: 105043

Ion Ratio Lower Upper

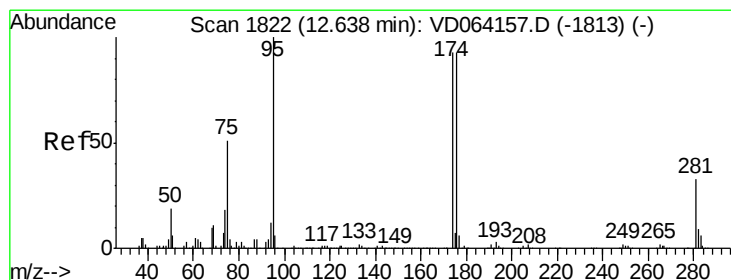
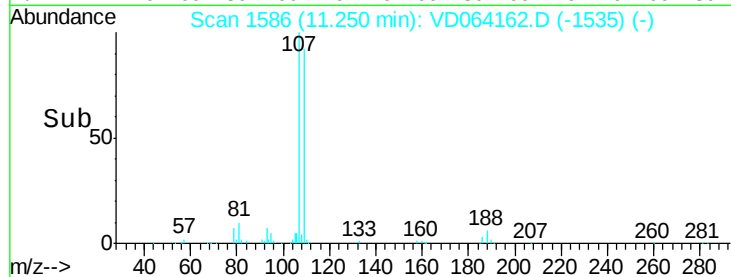
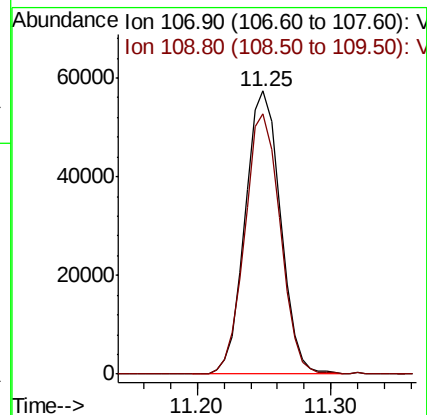
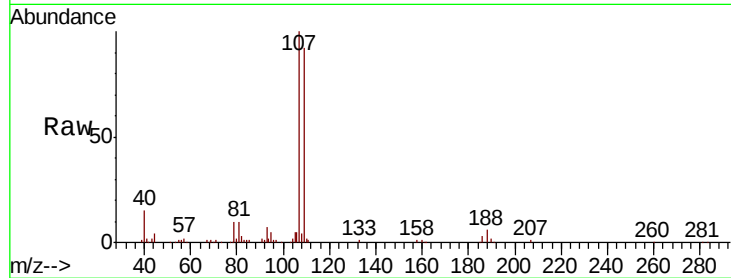
107 100

109 92.2 75.1 112.7

Manual Integrations
APPROVED

MMDadoda

11/13/2019 11:15:01 AM



#62

4-Bromofluorobenzene

Concen: 51.826 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

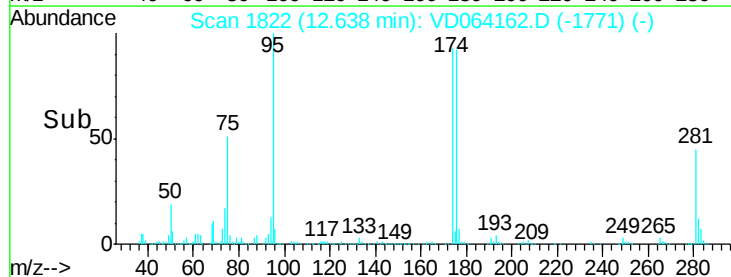
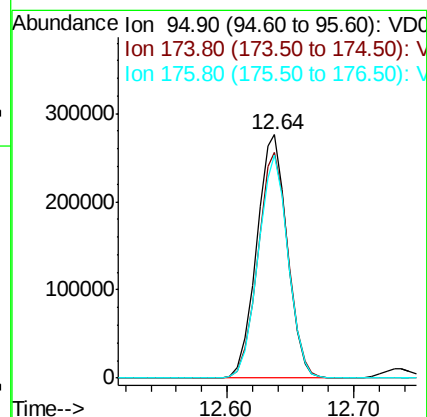
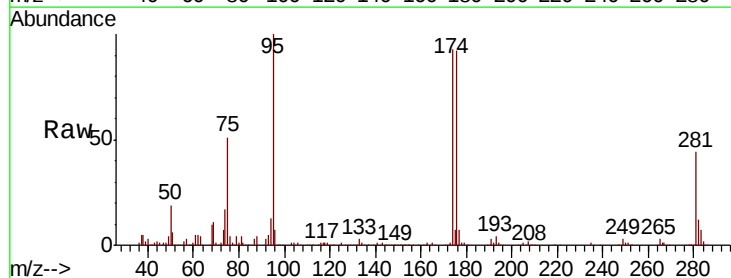
Tgt Ion: 95 Resp: 462412

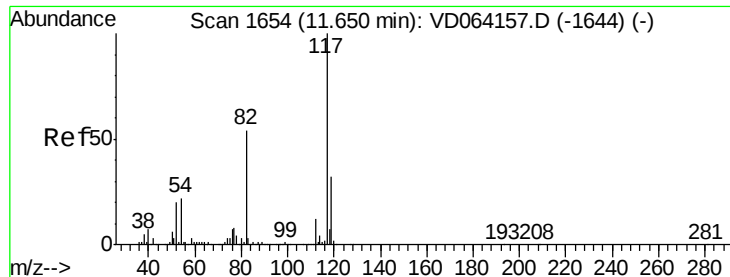
Ion Ratio Lower Upper

95 100

174 92.0 0.0 183.6

176 89.8 0.0 180.2





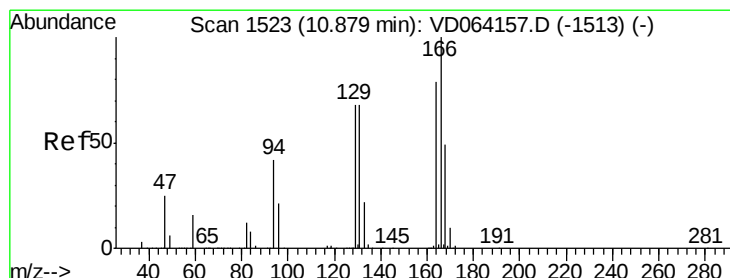
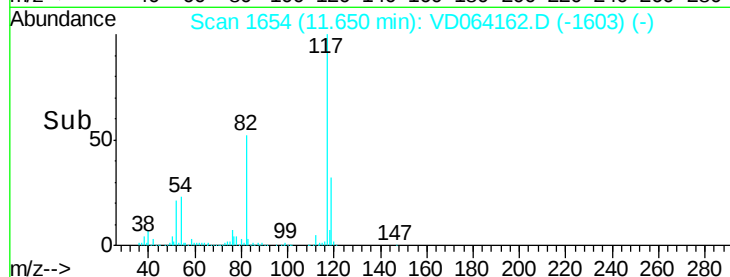
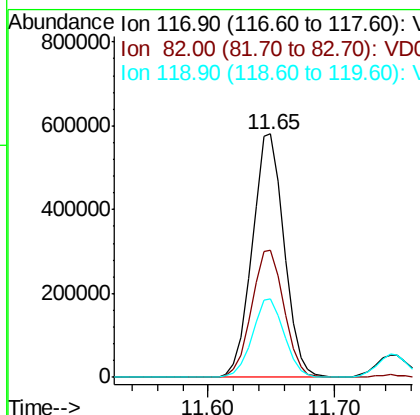
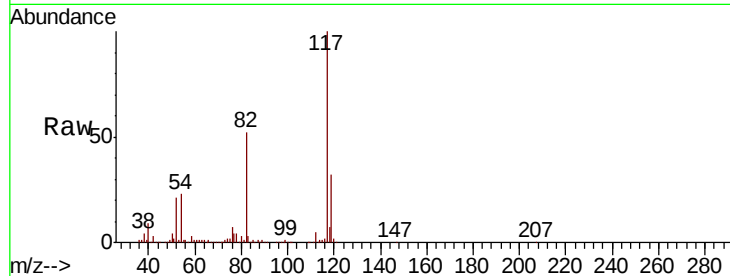
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.8	64.2
119	32.3	25.6	38.4

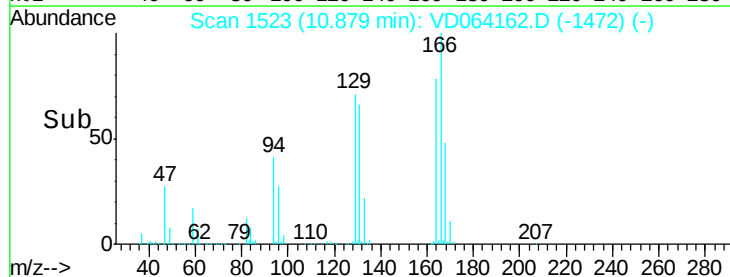
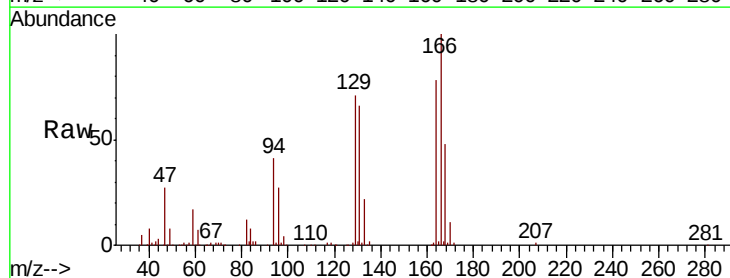
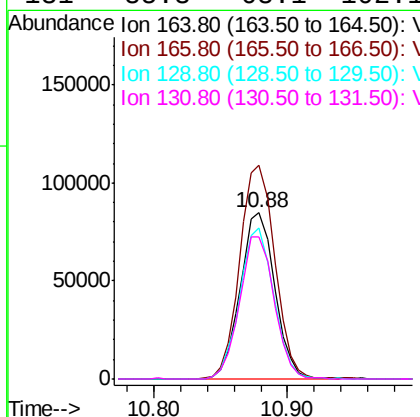
Manual Integrations
APPROVED

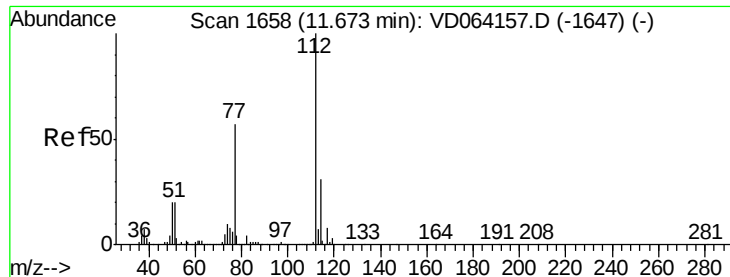
MMDadoda
11/13/2019 11:15:01 AM



#64
Tetrachloroethene
Concen: 19.365 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	100.8	151.2
129	90.7	68.7	103.1
131	85.3	68.1	102.1





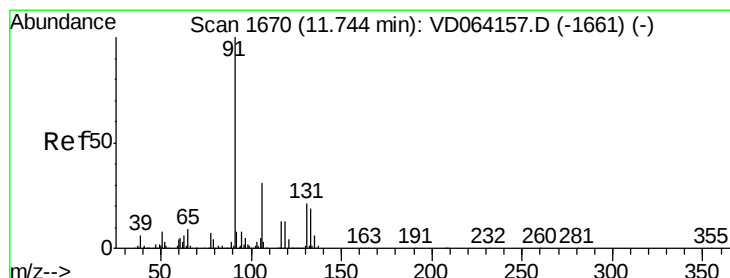
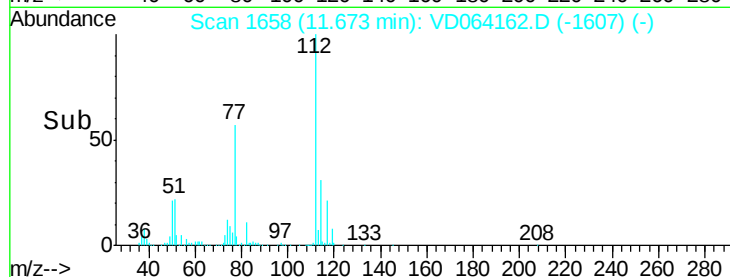
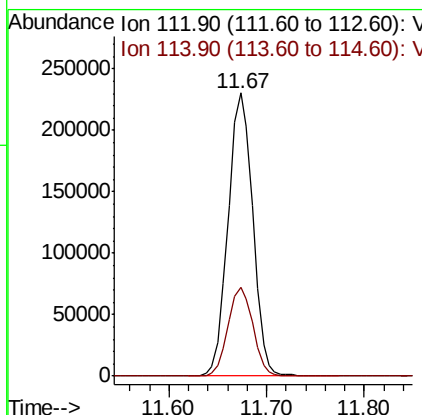
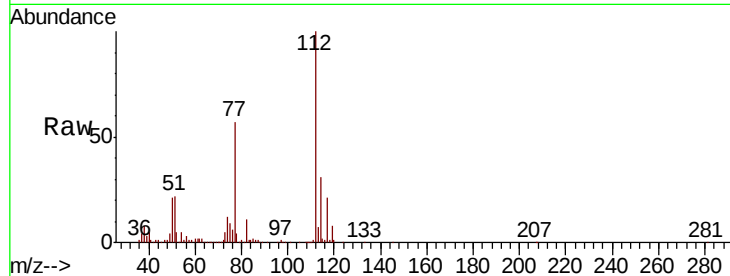
#65
Chlorobenzene
Concen: 19.497 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.2	37.8

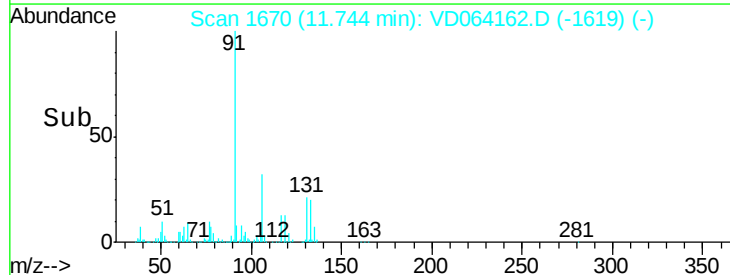
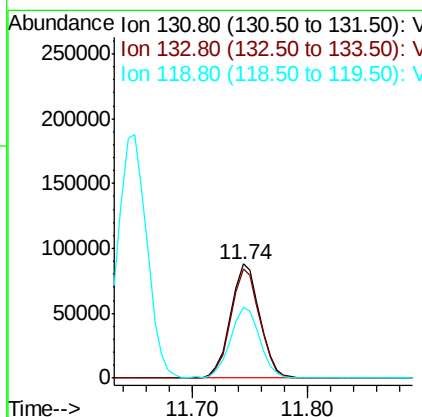
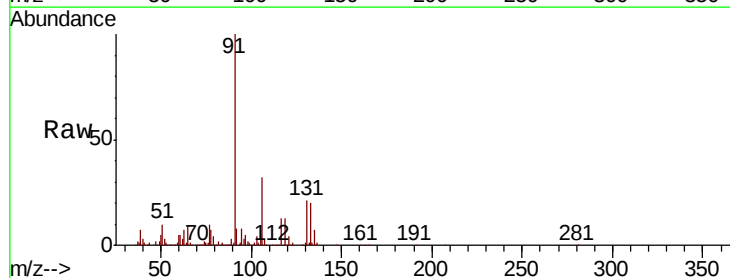
Manual Integrations
APPROVED

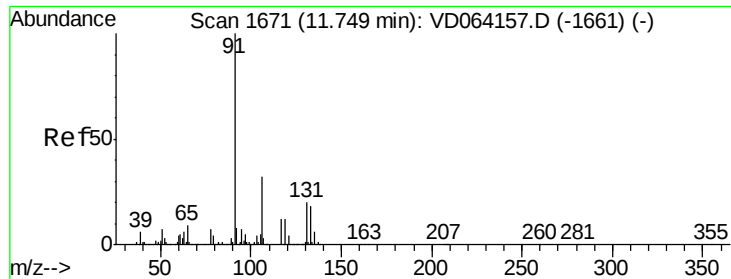
MMDadoda
11/13/2019 11:15:01 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.483 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.9
119	63.2	31.1	93.3





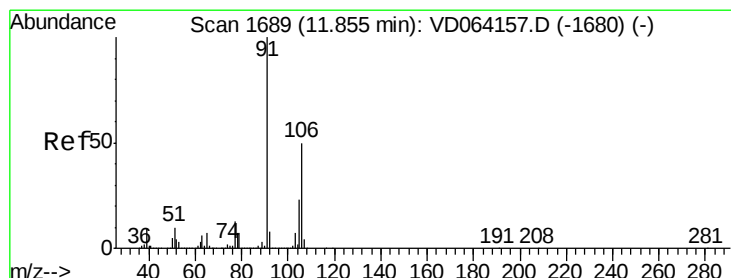
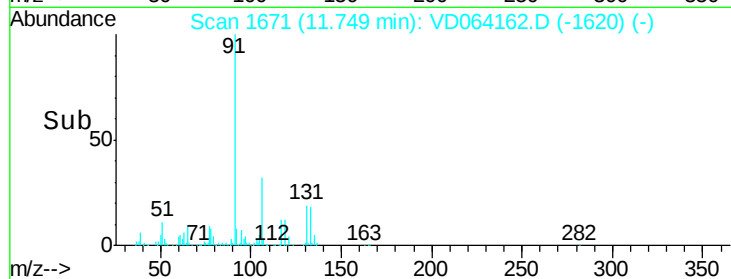
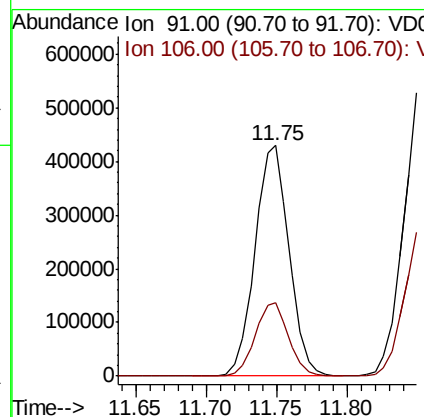
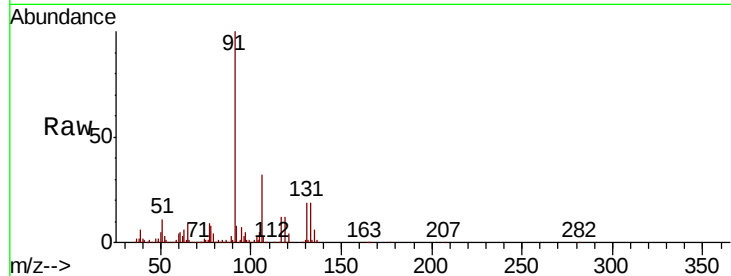
#67
Ethyl Benzene
Concen: 19.354 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
106	31.9	25.5	38.3	

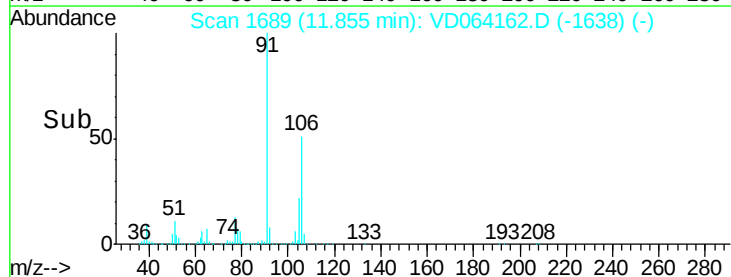
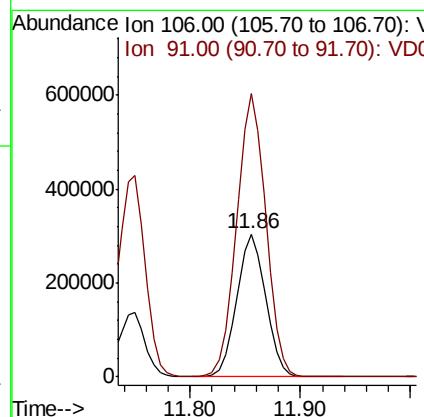
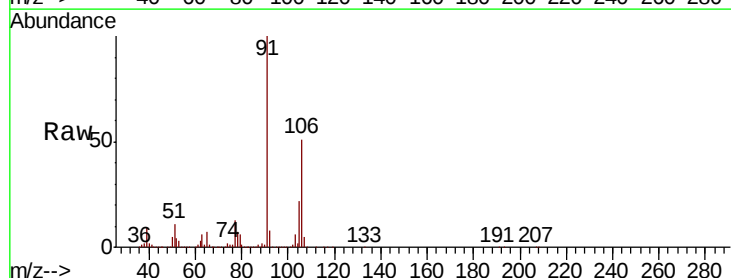
Manual Integrations
APPROVED

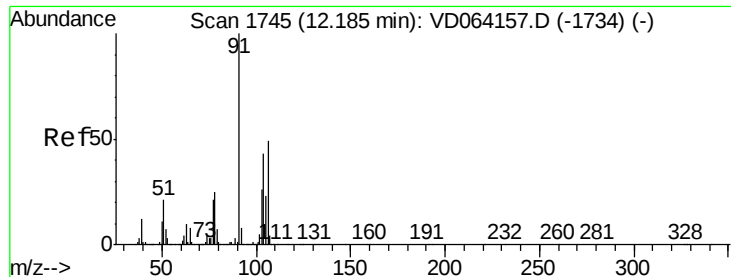
MMDadoda
11/13/2019 11:15:01 AM



#68
m/p-Xylenes
Concen: 39.048 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ion	Ratio	Lower	Upper
106	100			
91	199.5	160.3	240.5	





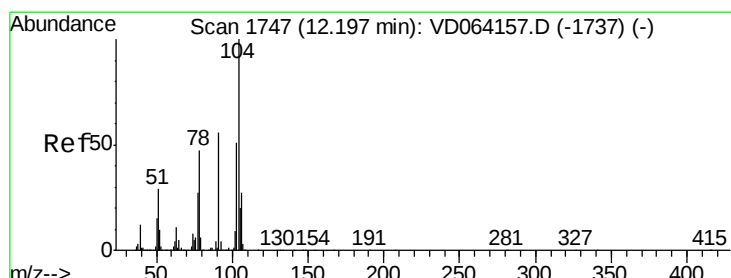
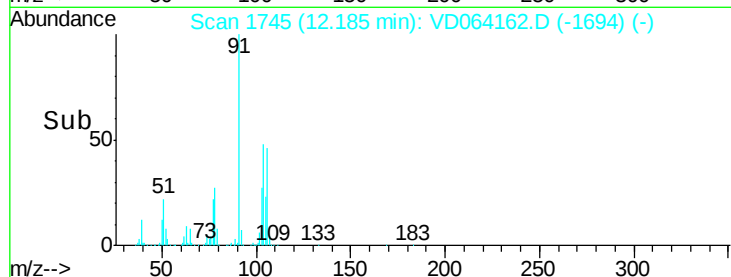
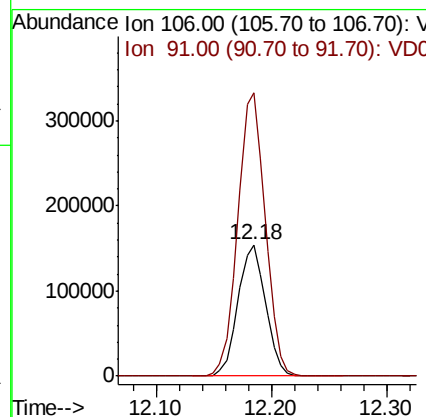
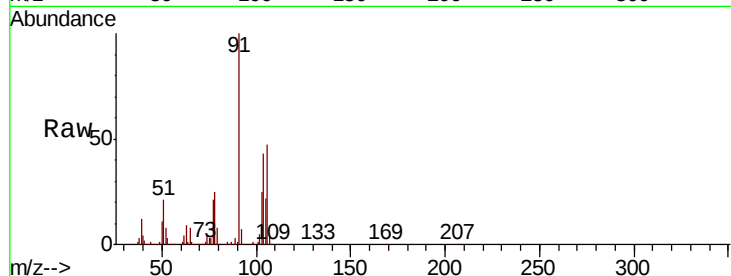
#69
o-Xylene
Concen: 19.235 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	256609		
91	214.1	105.1	315.3	

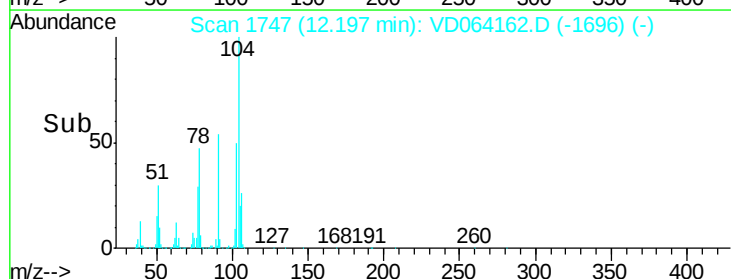
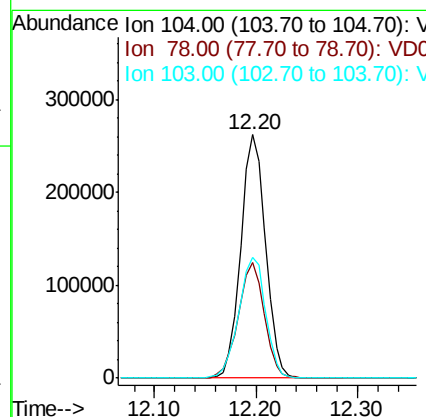
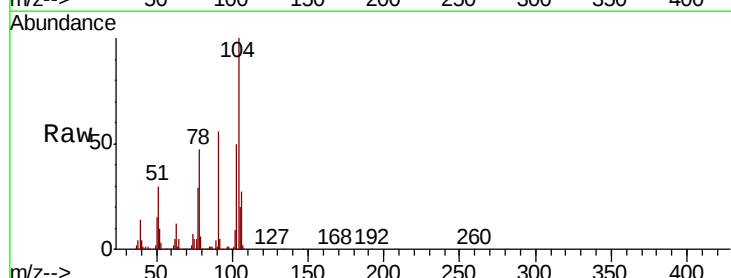
Manual Integrations
APPROVED

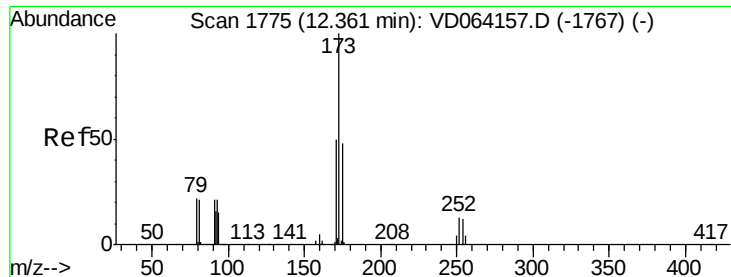
MMDadoda
11/13/2019 11:15:01 AM



#70
Styrene
Concen: 19.105 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	444896		
78	50.0	39.9	59.9	
103	54.1	43.4	65.0	





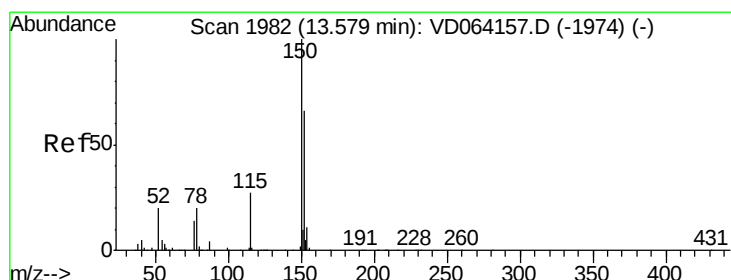
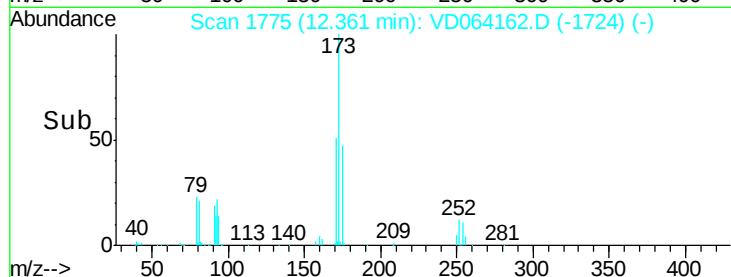
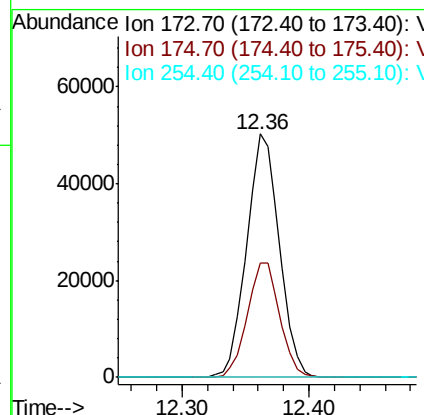
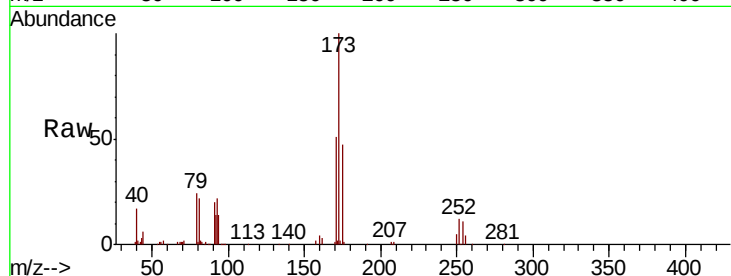
#71
Bromoform
Concen: 20.003 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	24.1	72.3
254	0.1	0.2	0.2

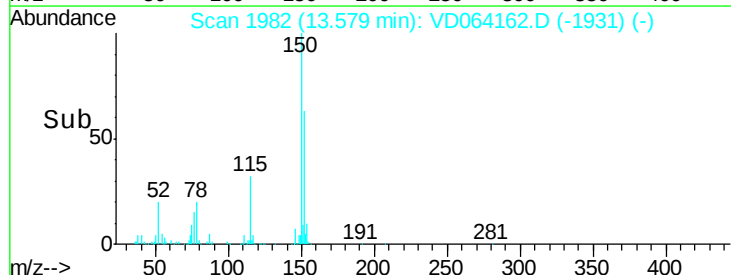
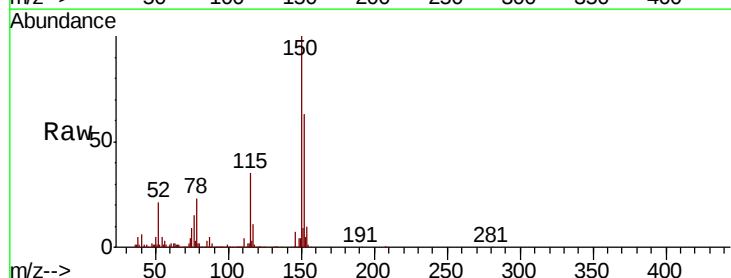
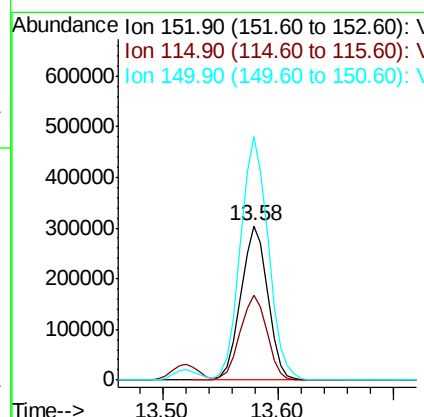
Manual Integrations
APPROVED

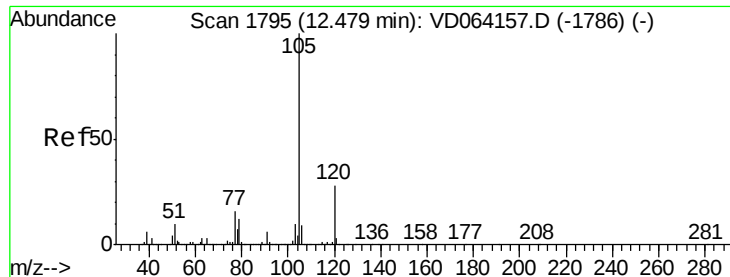
MMDadoda
11/13/2019 11:15:01 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.4	82.2
150	164.2	0.0	351.6





#73

Isopropylbenzene

Concen: 19.935 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

ClientSampleId :

VD1108SBS01

Tot Ion: 105 Resp: 716052

Ion Ratio Lower Upper

105 100

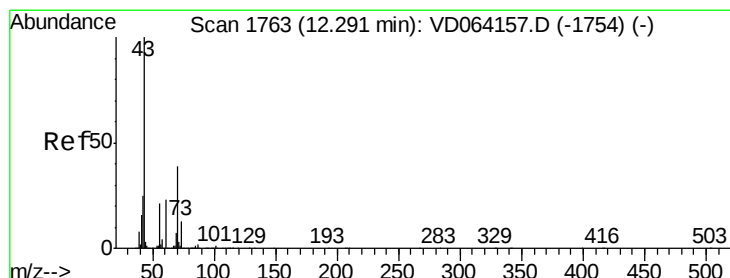
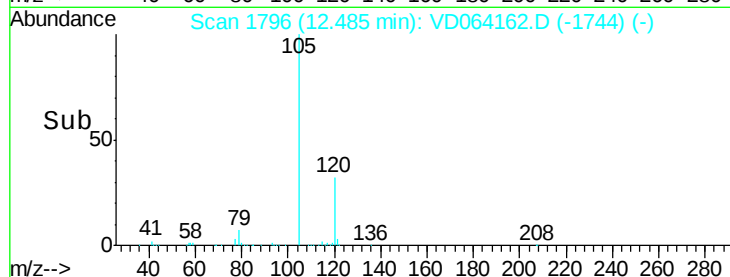
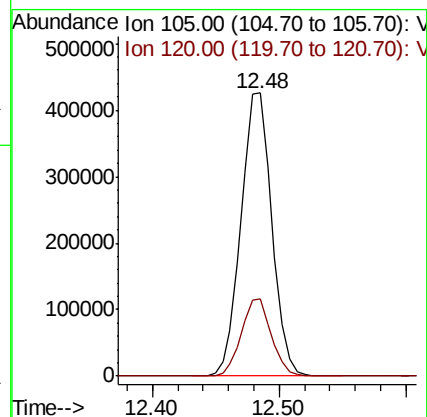
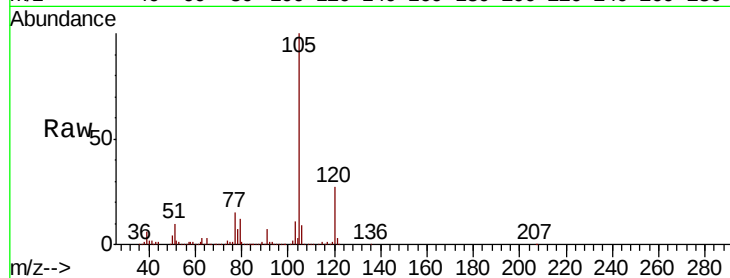
120 26.6 13.6 40.8

Manual Integrations

APPROVED

MMDadoda

11/13/2019 11:15:01 AM



#74

N-ethyl acetate

Concen: 20.072 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Tgt Ion: 43 Resp: 170256

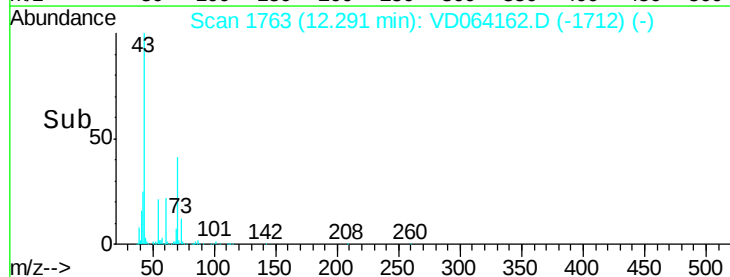
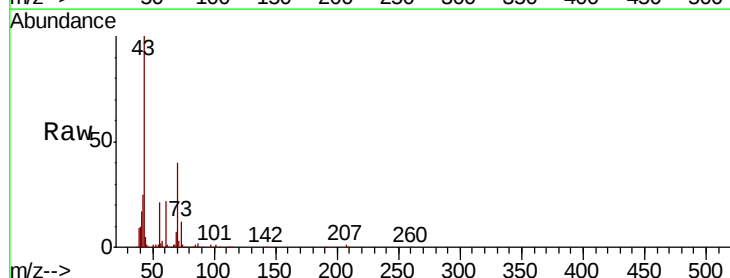
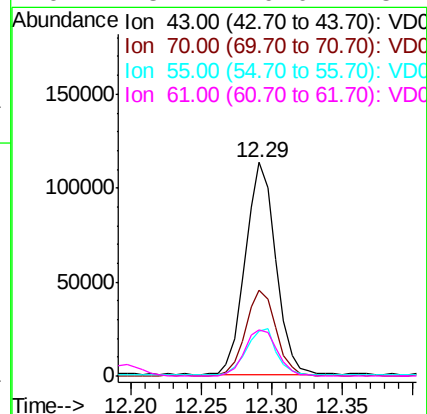
Ion Ratio Lower Upper

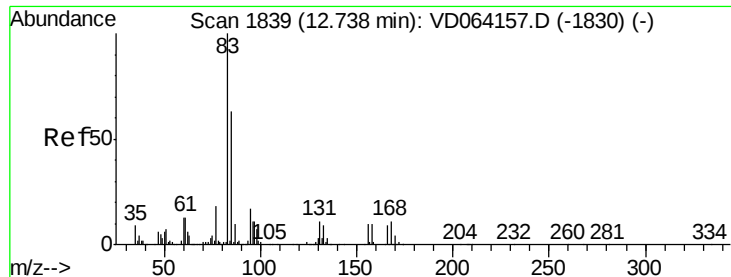
43 100

70 40.1 32.4 48.6

55 22.0 17.9 26.9

61 23.2 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 20.336 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

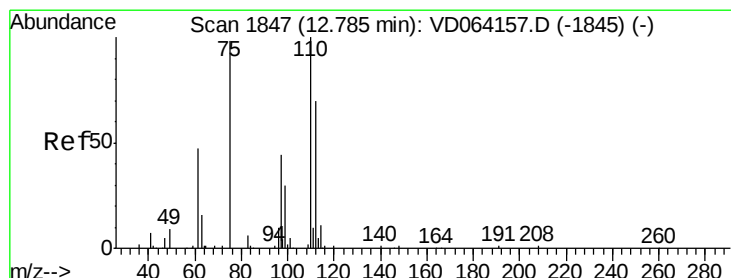
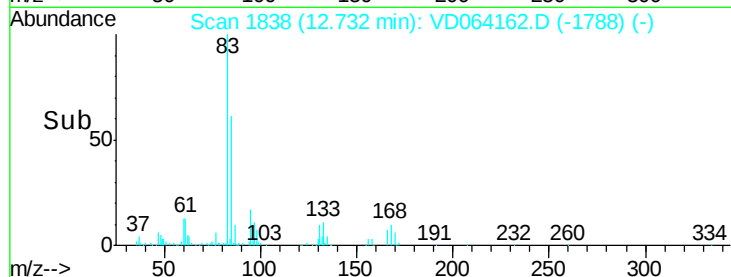
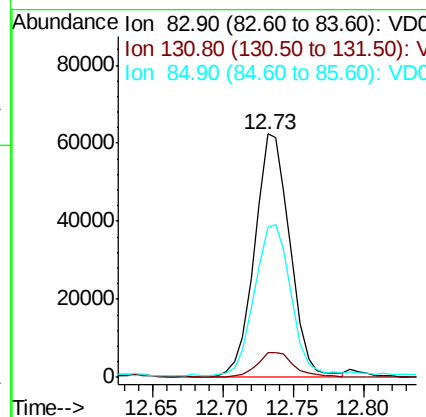
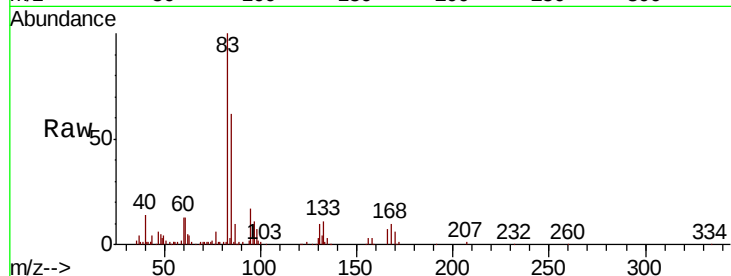
ClientSampleId :

VD1108SBS01

Tot Ion:	83	Resp:	110063
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.9	17.7
85	63.7	32.5	97.5

Manual Integrations
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11/13/2019 11:15:01 AM



#76

1,2,3-Trichloropropane

Concen: 20.068 ug/l m

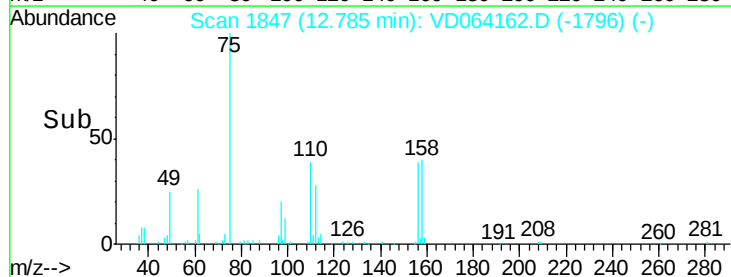
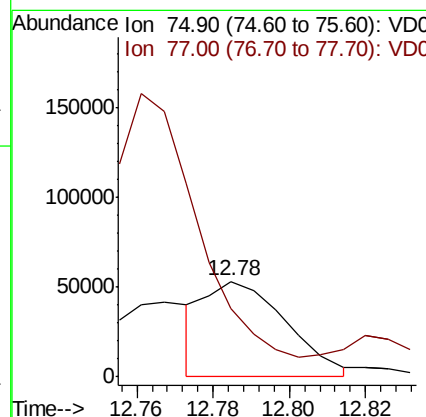
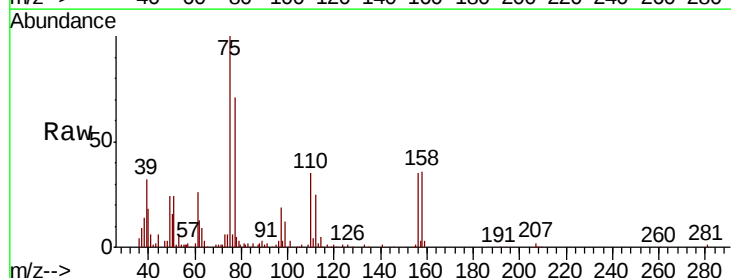
RT: 12.78 min Scan# 1847

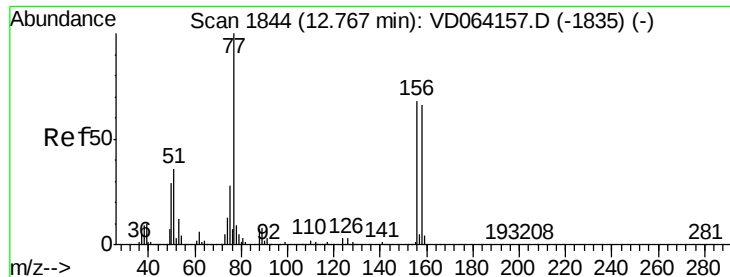
Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Tgt Ion:	75	Resp:	79100
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.906 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Instrument :

MSVOA_D

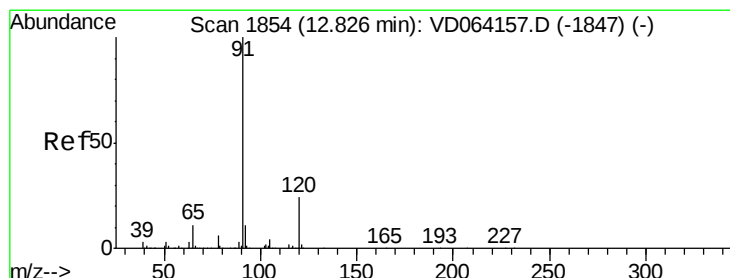
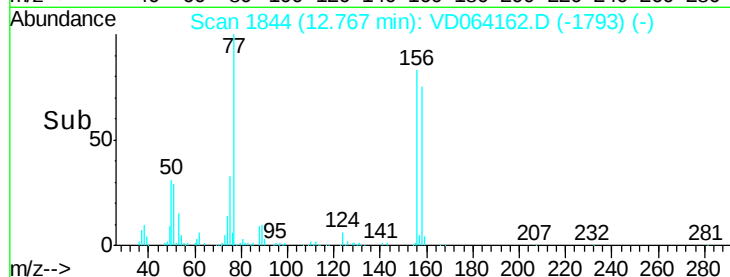
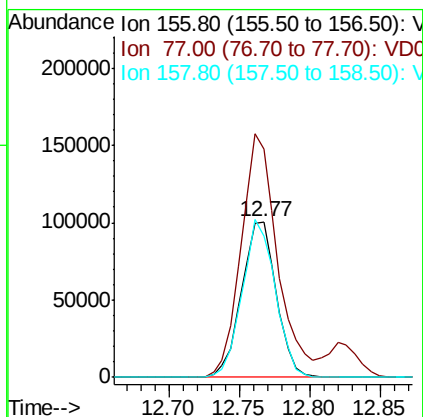
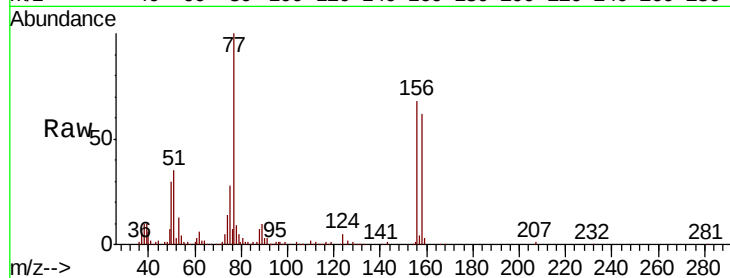
ClientSampleId :

VD1108SBS01

Tot Ion:	156	Resp:	173709
Ion Ratio	Lower	Upper	
156	100		
77	163.4	81.2	243.4
158	96.5	48.4	145.2

Manual Integrations
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11/13/2019 11:15:01 AM



#78

n-propylbenzene

Concen: 19.745 ug/l

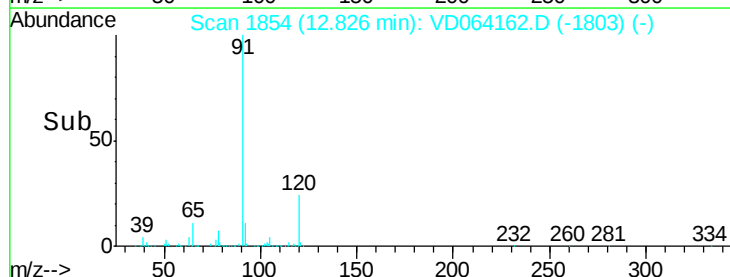
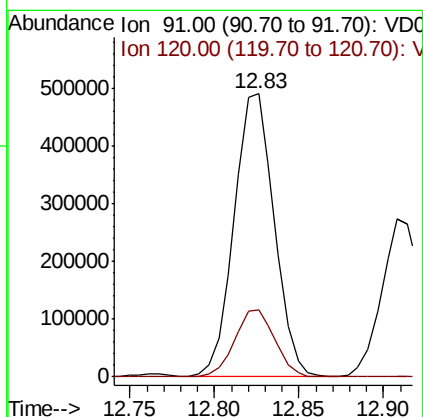
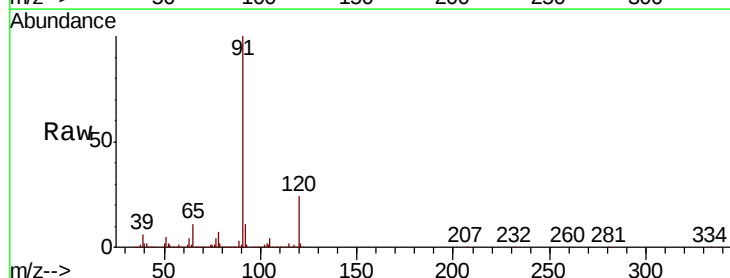
RT: 12.83 min Scan# 1854

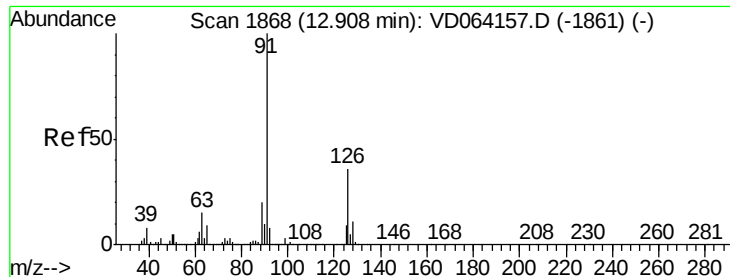
Delta R.T. 0.00 min

Lab File: VD064162.D

Acq: 08 Nov 2019 18:46

Tgt Ion:	91	Resp:	810278
Ion Ratio	Lower	Upper	
91	100		
120	23.7	11.8	35.4





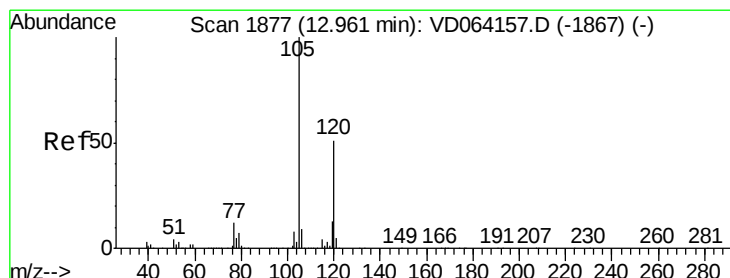
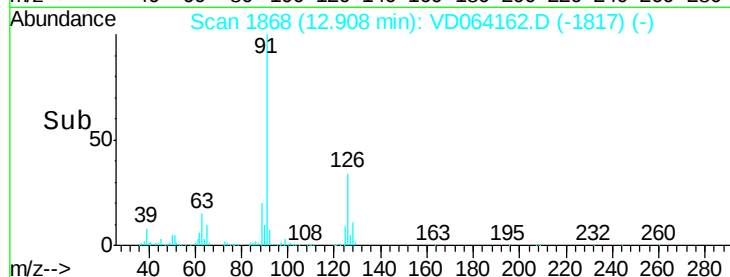
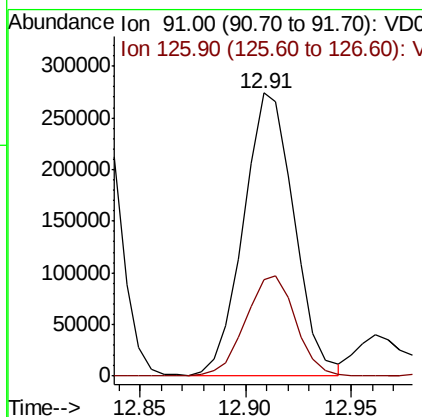
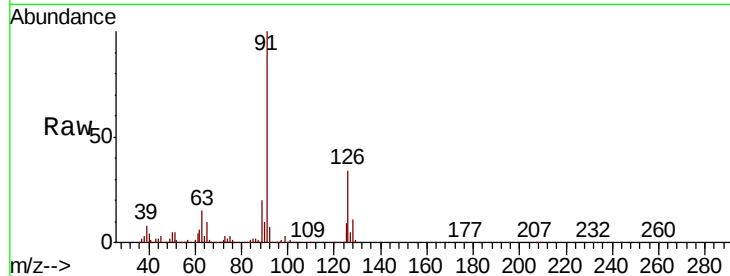
#79
2-Chlorotoluene
Concen: 19.667 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion: 91 Resp: 455663
Ion Ratio Lower Upper
91 100
126 35.2 17.7 53.1

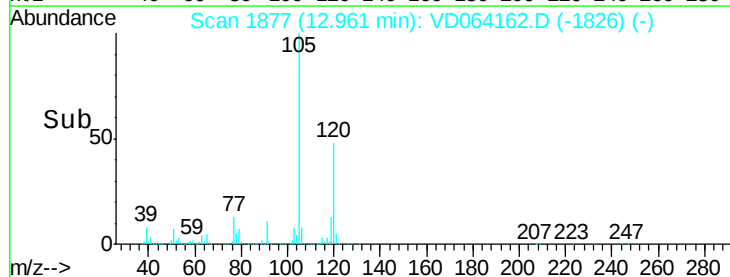
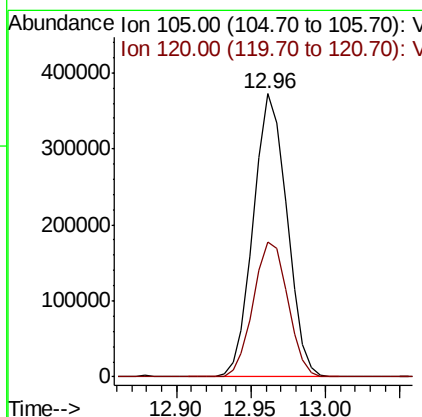
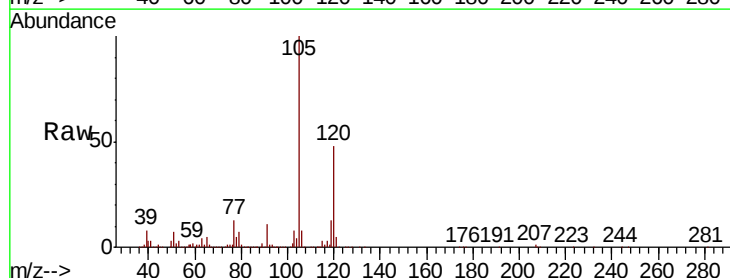
Manual Integrations
APPROVED

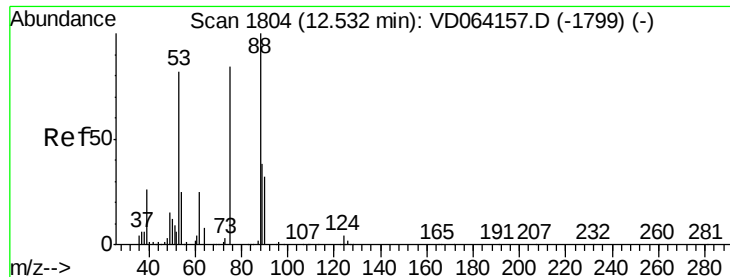
MMDadoda
11/13/2019 11:15:01 AM



#80
1,3,5-Trimethylbenzene
Concen: 19.627 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion: 105 Resp: 579289
Ion Ratio Lower Upper
105 100
120 49.1 25.4 76.4





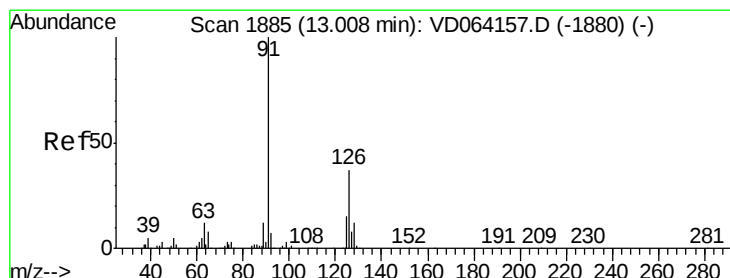
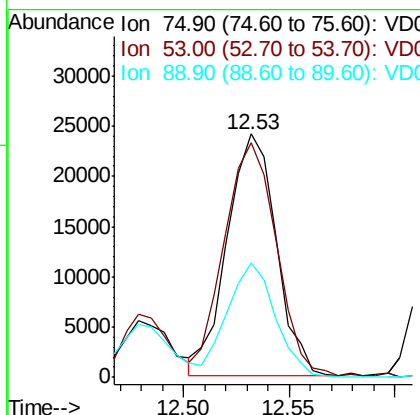
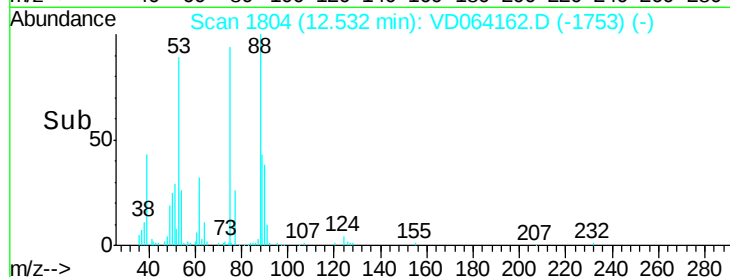
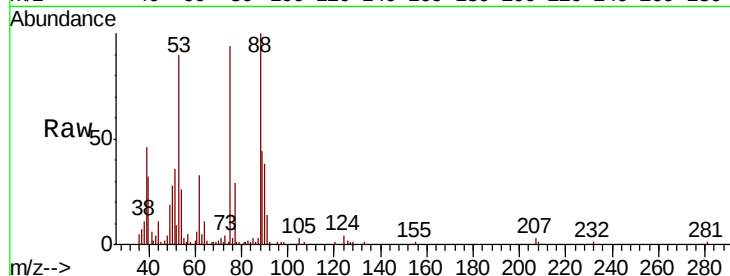
#81
trans-1,4-Dichloro-2-butene
Concen: 19.524 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	105.1	79.4	119.0
89	46.2	36.6	55.0

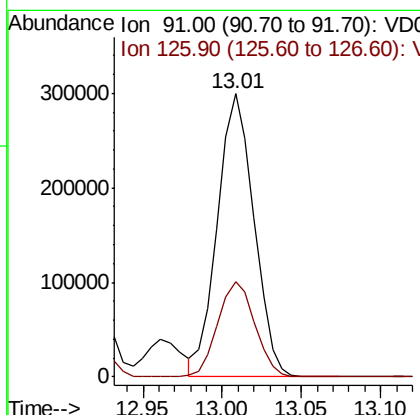
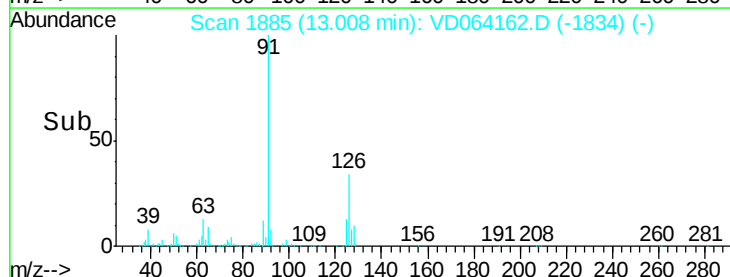
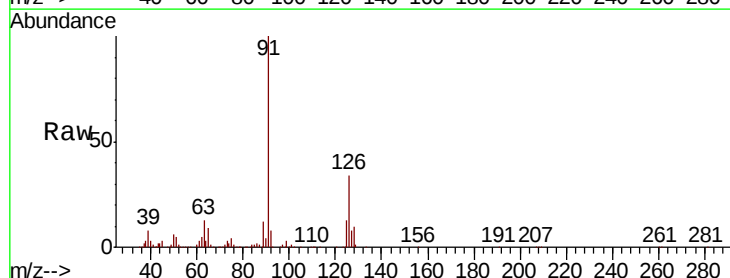
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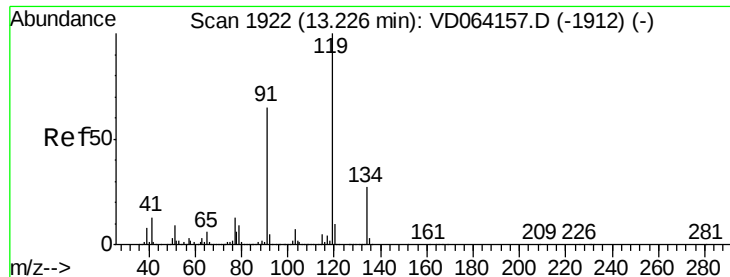
MMDadoda
11/13/2019 11:15:01 AM



#82
4-Chlorotoluene
Concen: 19.799 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.8	53.4





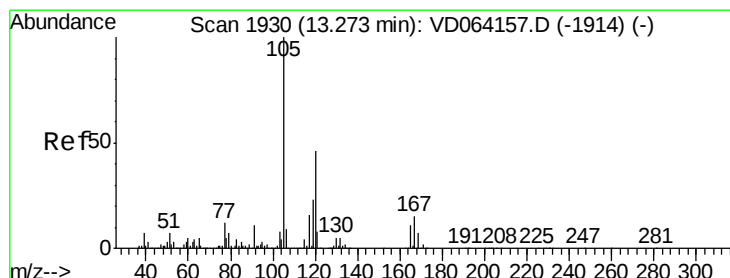
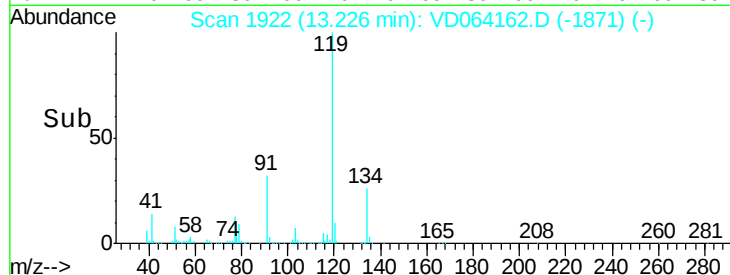
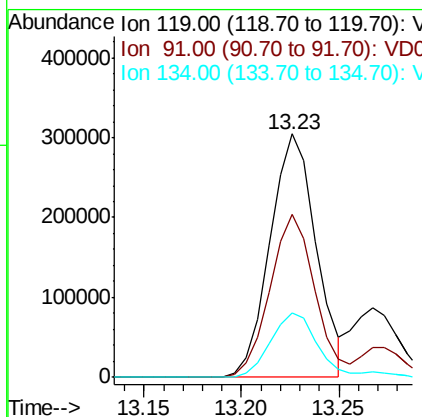
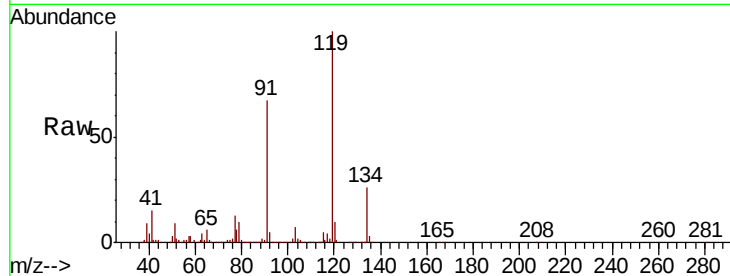
#83
tert-Butylbenzene
Concen: 19.106 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.5	31.8	95.4
134	28.1	13.7	41.0

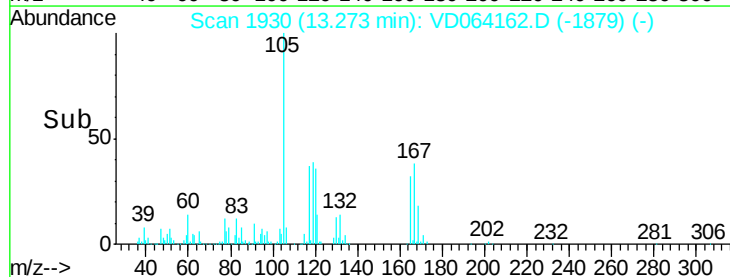
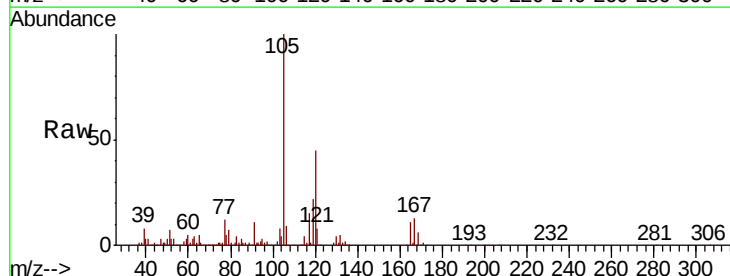
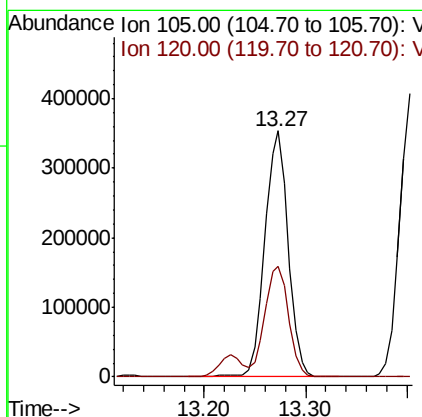
Manual Integrations
APPROVED

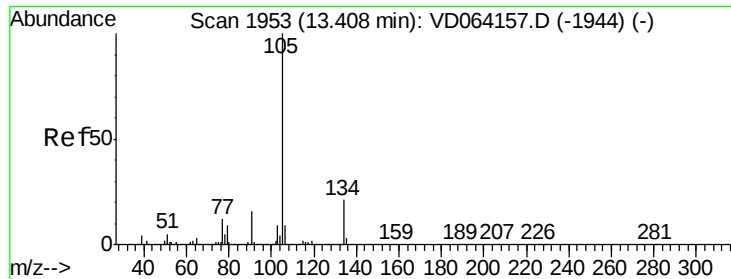
MMDadoda
11/13/2019 11:15:01 AM



#84
1,2,4-Trimethylbenzene
Concen: 19.600 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.3	69.8





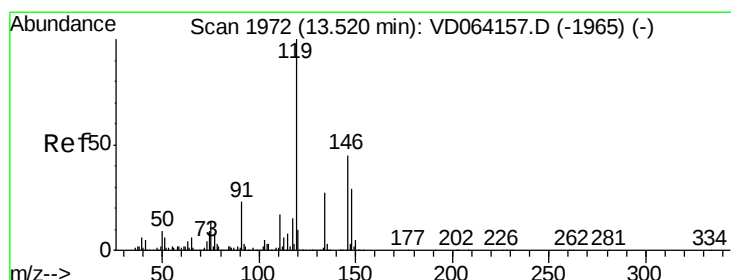
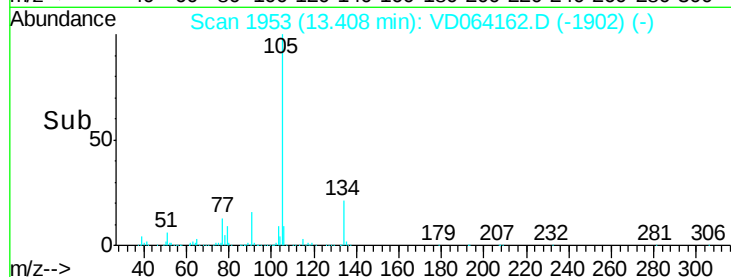
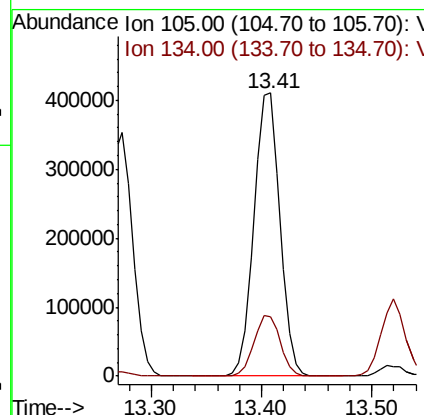
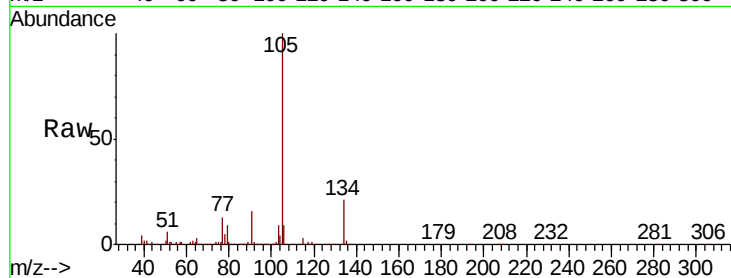
#85
 sec-Butylbenzene
 Concen: 19.489 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.5	10.7	31.9

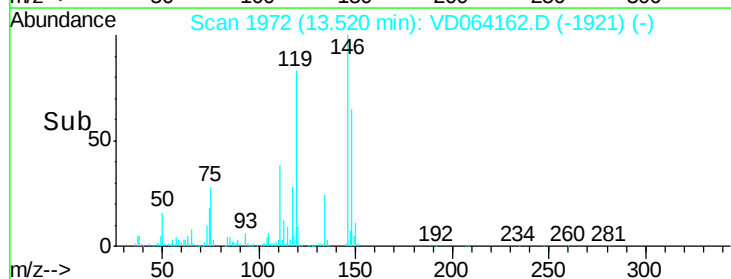
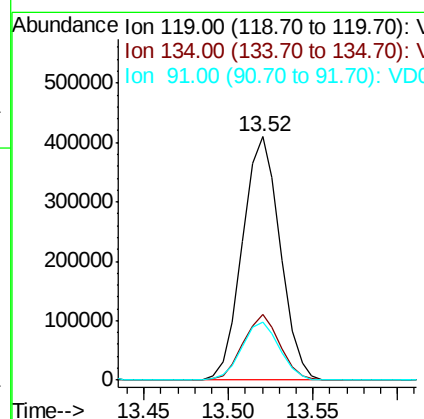
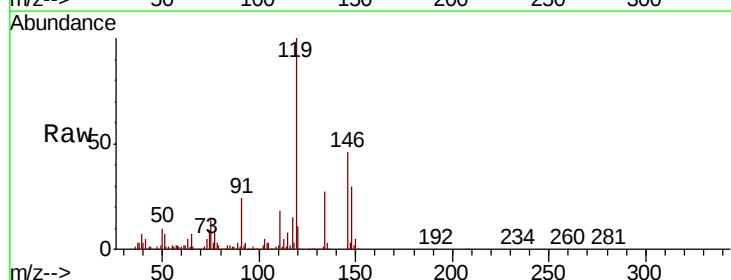
Manual Integrations
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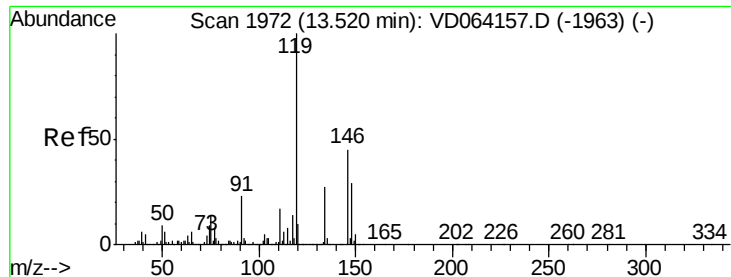
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 11/13/2019 11:15:01 AM



#86
 p-Isopropyltoluene
 Concen: 19.134 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.5
91	23.9	11.5	34.4





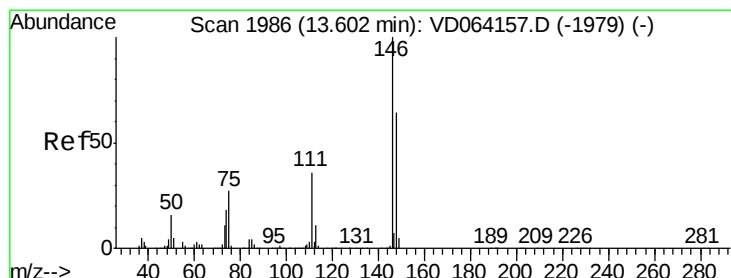
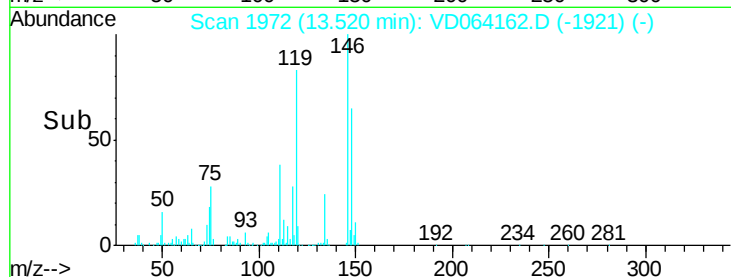
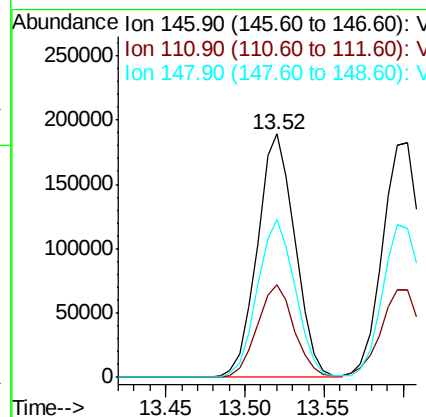
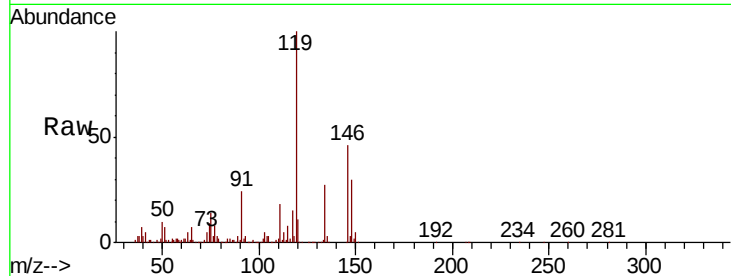
#87
 1,3-Dichlorobenzene
 Concen: 19.343 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.9	56.9
148	65.1	32.1	96.5

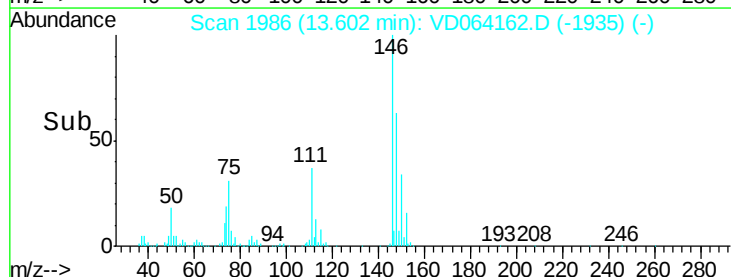
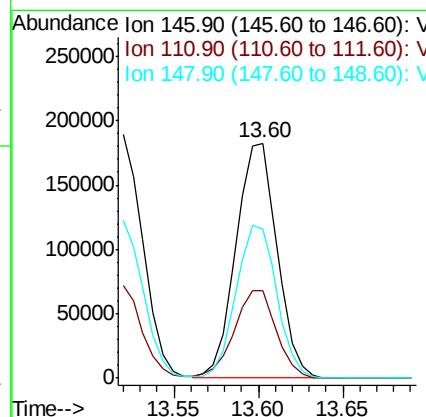
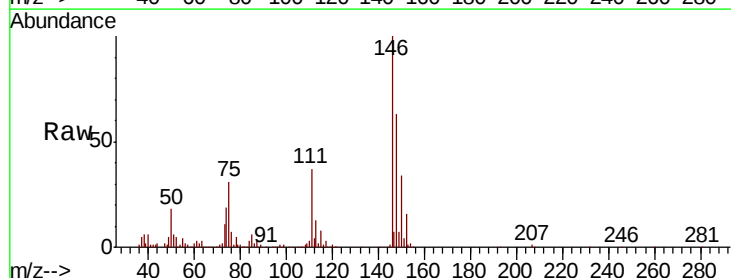
Manual Integrations
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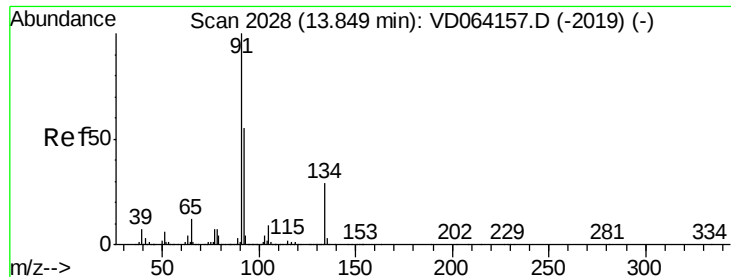
MMDadoda
 11/13/2019 11:15:01 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.546 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	18.1	54.4
148	64.7	31.9	95.7





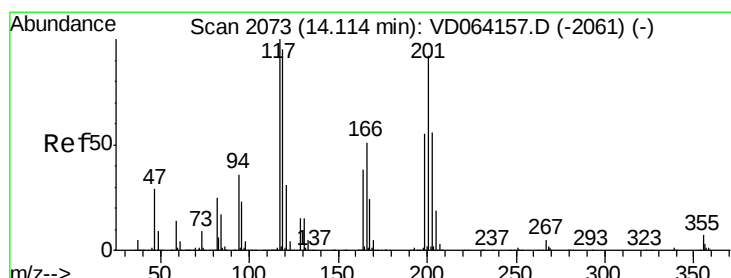
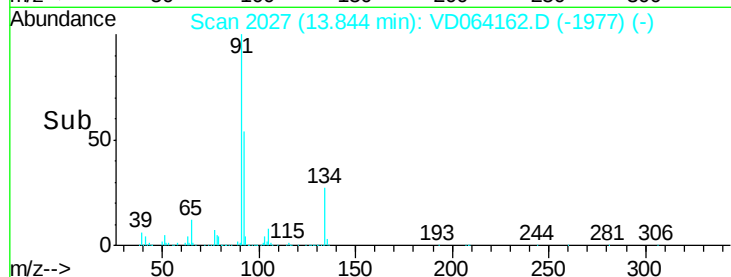
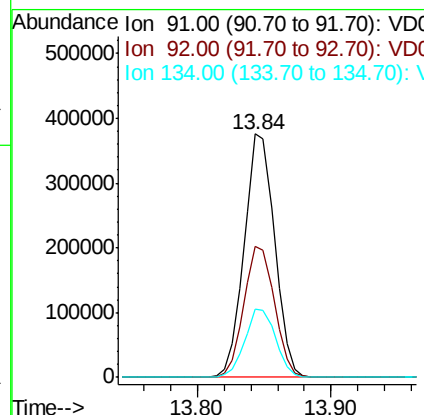
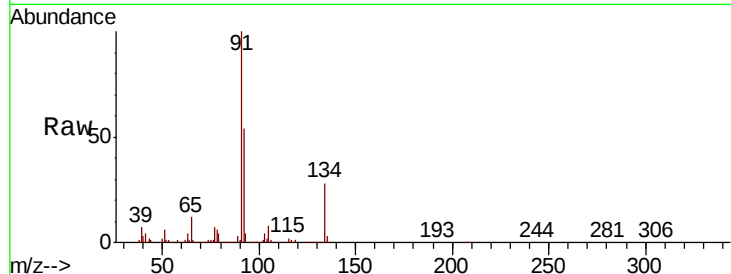
#89
n-Butylbenzene
Concen: 19.605 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.3	81.8
134	28.4	14.1	42.4

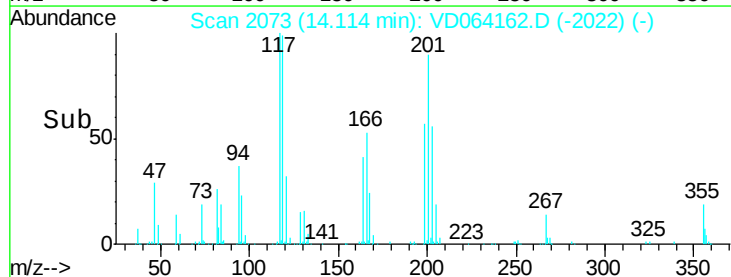
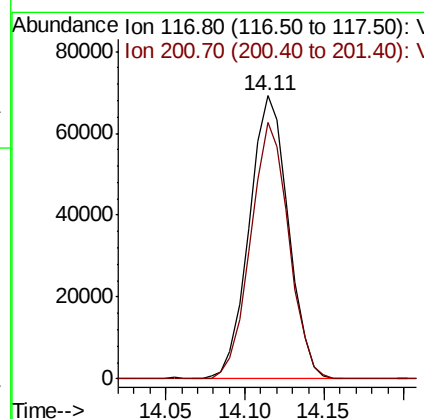
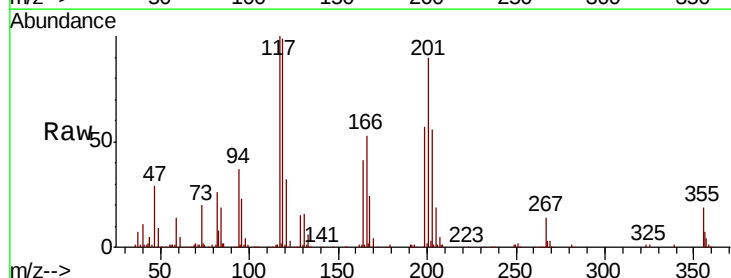
Manual Integrations
APPROVED

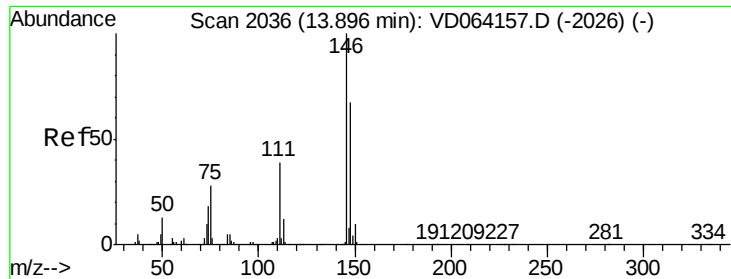
MMDadoda
11/13/2019 11:15:01 AM



#90
Hexachloroethane
Concen: 19.329 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.7	45.8	137.4





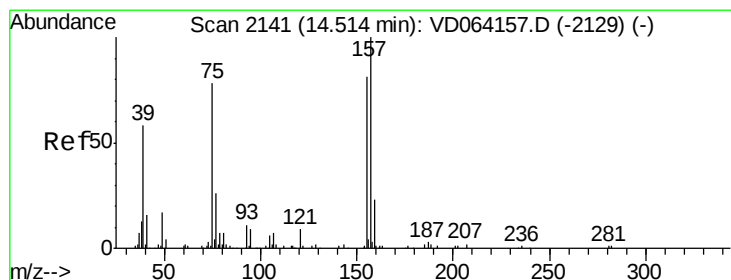
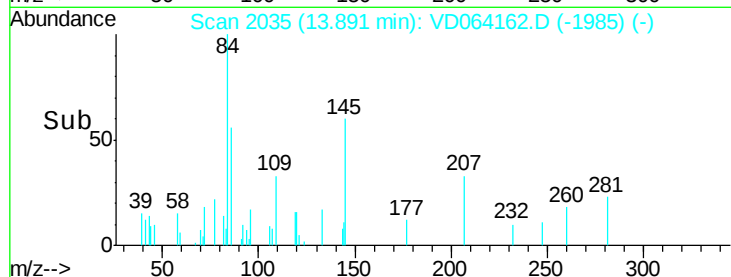
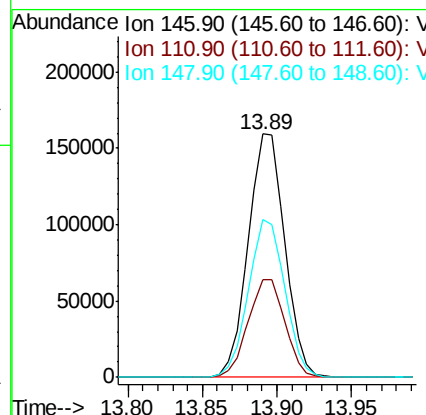
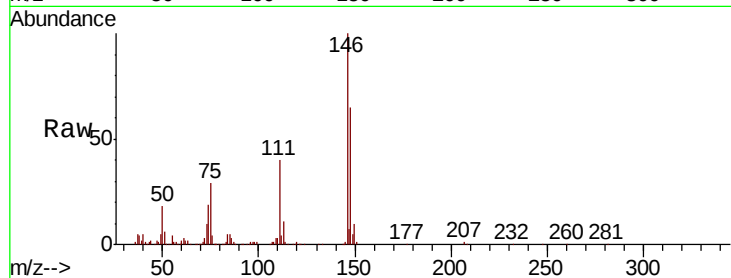
#91
 1,2-Dichlorobenzene
 Concen: 19.655 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.01 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.7	59.0
148	64.6	32.3	96.8

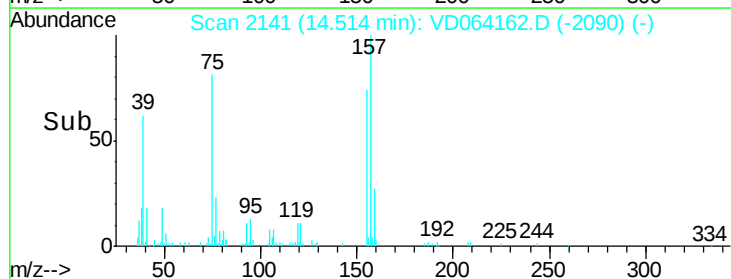
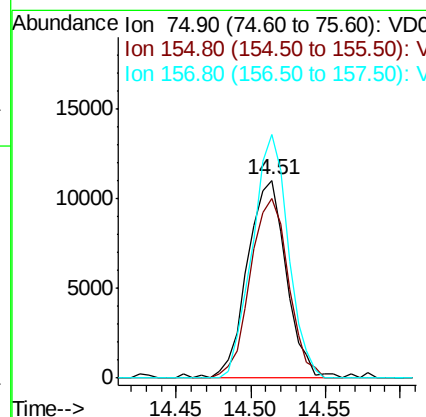
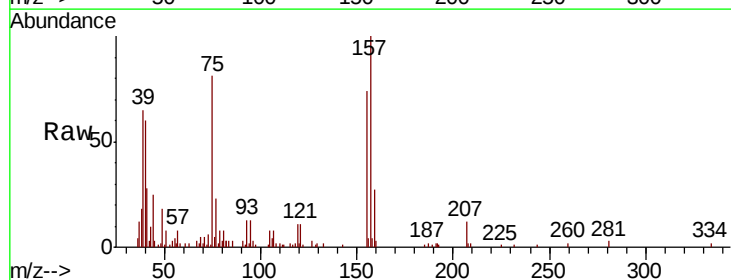
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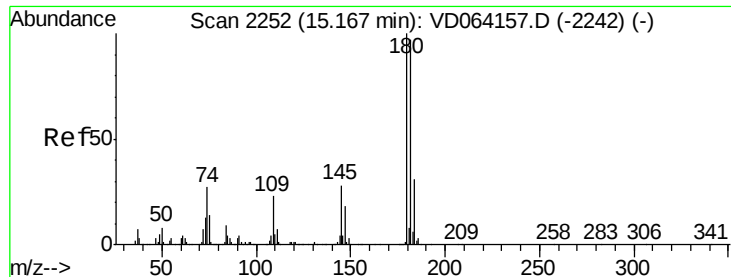
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.552 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.9	48.0	144.0
157	113.5	61.5	184.4





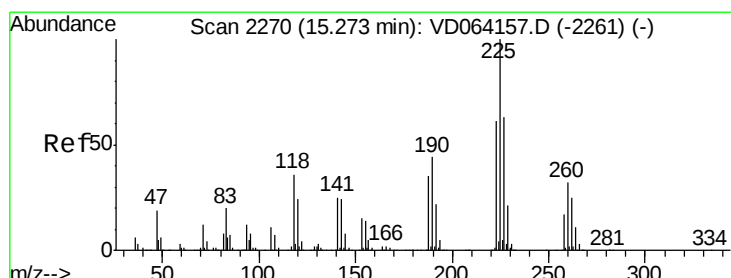
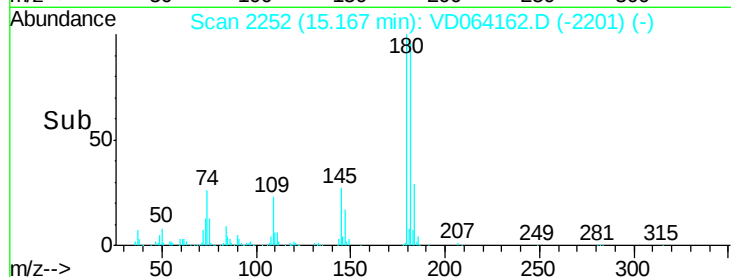
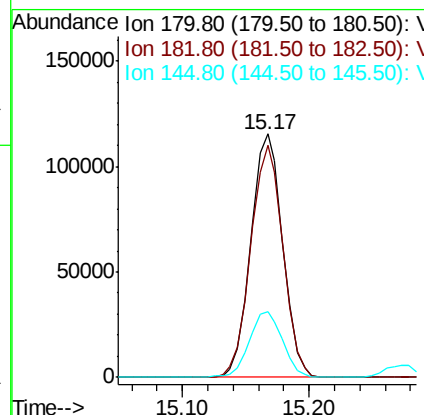
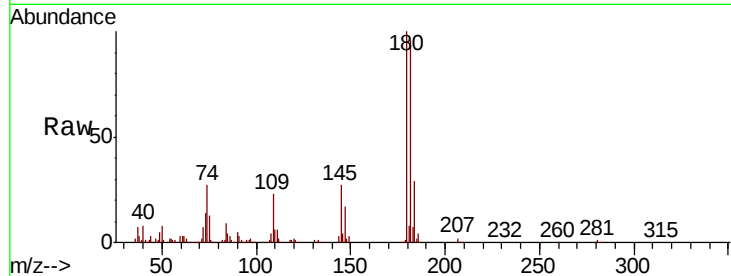
#93
 1,2,4-Trichlorobenzene
 Concen: 19.026 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1108SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	201230		
182	96.5	47.5	142.5	
145	28.2	14.2	42.6	

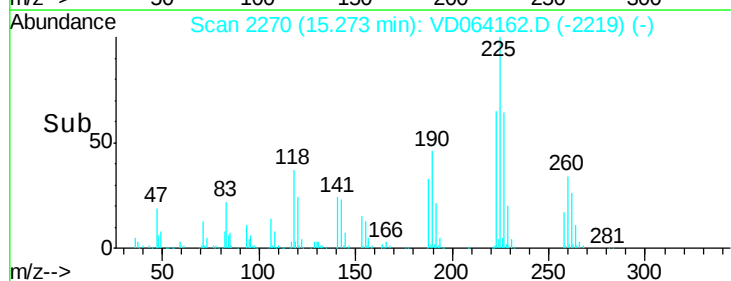
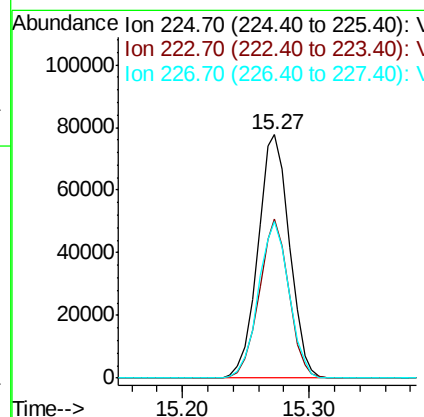
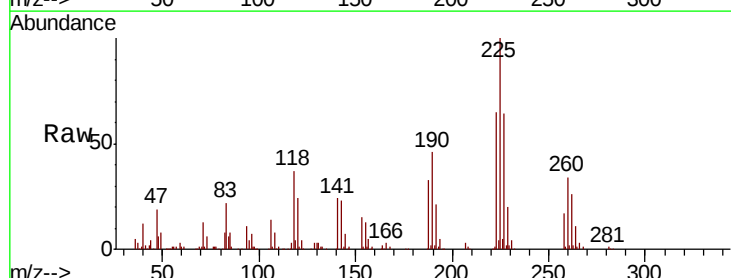
Manual Integrations
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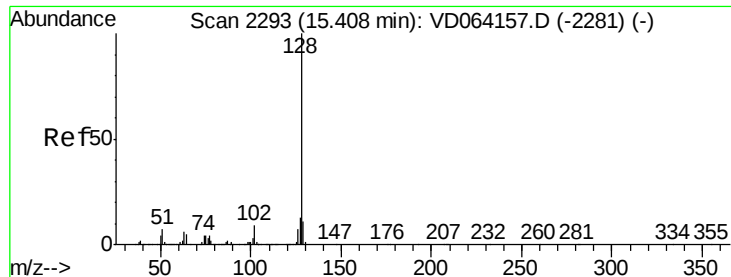
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 11/13/2019 11:15:01 AM



#94
 Hexachlorobutadiene
 Concen: 19.727 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VD064162.D
 Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	134762		
223	61.2	31.1	93.3	
227	62.7	31.5	94.5	





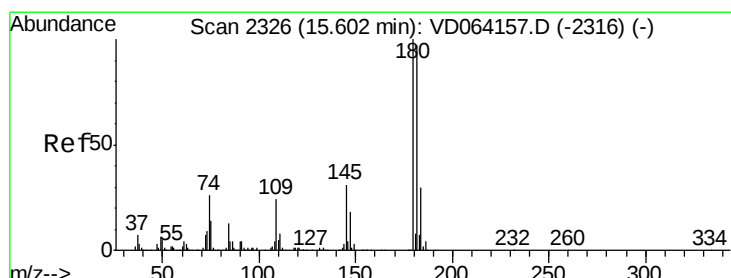
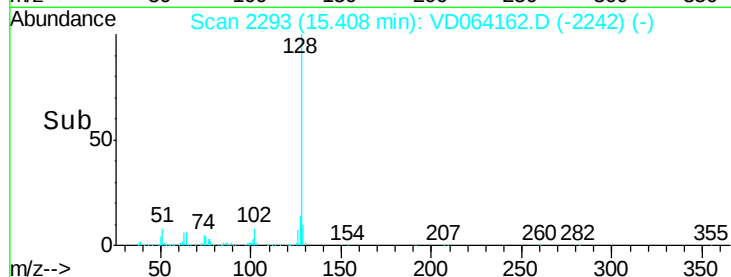
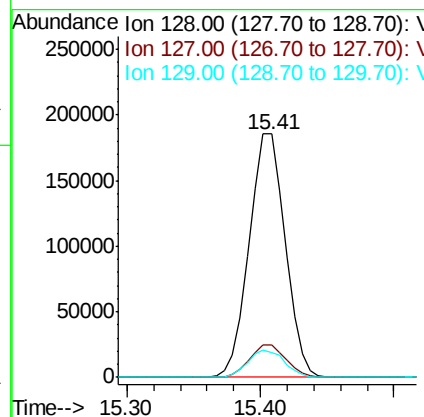
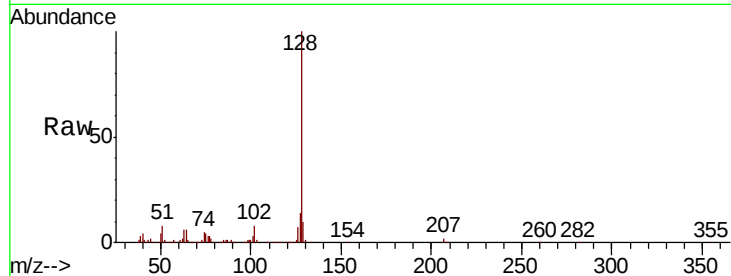
#95
Naphthalene
Concen: 19.955 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Instrument :
MSVOA_D
ClientSampleId :
VD1108SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.5	15.7
129	11.3	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 19.224 ug/l
RT: 15.60 min Scan# 2325
Delta R.T. -0.01 min
Lab File: VD064162.D
Acq: 08 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.3	144.9
145	30.5	15.3	45.8

