

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121719\
 Data File : VD064539.D
 Acq On : 17 Dec 2019 12:17
 Operator : VA/SY
 Sample : VD1217SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBS01

Manual Integrations
 APPROVED

MMDadoda
 12/18/2019 1:00:48 PM

Quant Time: Dec 18 03:02:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	413520	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	607557	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	533088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	265833	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	191628	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
35) Dibromofluoromethane	7.92	113	203016	53.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.08%	
50) Toluene-d8	10.34	98	762405	52.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.74%	
62) 4-Bromofluorobenzene	12.64	95	241061	52.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	78883	21.053	ug/l	94
3) Chloromethane	2.21	50	102194	21.624	ug/l	98
4) Vinyl Chloride	2.35	62	123433	22.621	ug/l	99
5) Bromomethane	2.76	94	85296	21.138	ug/l	99
6) Chloroethane	2.92	64	82718	22.680	ug/l	92
7) Trichlorofluoromethane	3.27	101	212523	23.429	ug/l	100
8) Diethyl Ether	3.71	74	39394	20.899	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	89831	23.096	ug/l	96
10) Methyl Iodide	4.30	142	88167	21.466	ug/l	99
11) Tert butyl alcohol	5.24	59	25166	105.625	ug/l #	100
12) 1,1-Dichloroethene	4.06	96	82242	22.065	ug/l	99
13) Acrolein	3.93	56	24085	74.112	ug/l	98
14) Allyl chloride	4.71	41	129934	22.337	ug/l	100
15) Acrylonitrile	5.43	53	83509	101.312	ug/l	96
16) Acetone	4.17	43	78405	103.659	ug/l	100
17) Carbon Disulfide	4.40	76	251570	21.311	ug/l	99
18) Methyl Acetate	4.72	43	46616	21.129	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	176051	20.591	ug/l	95
20) Methylene Chloride	4.96	84	93603	21.852	ug/l	92
21) trans-1,2-Dichloroethene	5.47	96	92960	22.049	ug/l	97
22) Diisopropyl ether	6.37	45	248470	21.638	ug/l #	96
23) Vinyl Acetate	6.31	43	679394	100.357	ug/l	99
24) 1,1-Dichloroethane	6.27	63	152399	22.068	ug/l	95
25) 2-Butanone	7.22	43	104658	97.841	ug/l	98
26) 2,2-Dichloropropane	7.21	77	139704	23.262	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	99731	21.697	ug/l	98
28) Bromochloromethane	7.55	49	40037	16.964	ug/l	100
29) Tetrahydrofuran	7.57	42	65474	96.207	ug/l	97
30) Chloroform	7.71	83	159605	22.316	ug/l	97
31) Cyclohexane	7.98	56	146364	21.677	ug/l	94
32) 1,1,1-Trichloroethane	7.90	97	149435	22.537	ug/l	100
36) 1,1-Dichloropropene	8.11	75	127384	22.167	ug/l	100
37) Ethyl Acetate	7.30	43	45779	18.774	ug/l	98
38) Carbon Tetrachloride	8.10	117	138858	22.894	ug/l	93

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	156204	21.913	ug/l	95
40) Benzene	8.36	78	345177	21.626	ug/l	98
41) Methacrylonitrile	7.53	41	22463	16.063	ug/l #	77
42) 1,2-Dichloroethane	8.43	62	99047	21.279	ug/l	98
43) Isopropyl Acetate	8.46	43	94331	19.675	ug/l	99
44) Trichloroethene	9.11	130	105562	21.956	ug/l	94
45) 1,2-Dichloropropane	9.38	63	84057	22.021	ug/l	91
46) Dibromomethane	9.48	93	45201	20.981	ug/l	98
47) Bromodichloromethane	9.67	83	122805	22.184	ug/l	98
48) Methyl methacrylate	9.46	41	42928	19.567	ug/l	94
49) 1,4-Dioxane	9.47	88	9571	359.762	ug/l #	91
51) 4-Methyl-2-Pentanone	10.23	43	231239	97.478	ug/l	100
52) Toluene	10.40	92	226627	21.787	ug/l	99
53) t-1,3-Dichloropropene	10.62	75	111370	21.110	ug/l	97
54) cis-1,3-Dichloropropene	10.09	75	136354	21.756	ug/l	100
55) 1,1,2-Trichloroethane	10.80	97	61810	20.953	ug/l	96
56) Ethyl methacrylate	10.66	69	75880	20.167	ug/l	99
57) 1,3-Dichloropropane	10.95	76	104112	20.732	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	161457	107.646	ug/l	99
59) 2-Hexanone	10.99	43	156733	95.217	ug/l	98
60) Dibromochloromethane	11.14	129	82982	20.747	ug/l	96
61) 1,2-Dibromoethane	11.25	107	59320	20.140	ug/l	98
64) Tetrachloroethene	10.88	164	89380	21.987	ug/l	96
65) Chlorobenzene	11.67	112	237120	21.327	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.75	131	89028	21.630	ug/l	98
67) Ethyl Benzene	11.75	91	433384	21.908	ug/l	97
68) m/p-Xylenes	11.86	106	324786	43.059	ug/l	97
69) o-Xylene	12.18	106	150233	21.566	ug/l	100
70) Styrene	12.20	104	262683	21.699	ug/l	99
71) Bromoform	12.36	173	48826	19.828	ug/l #	99
73) Isopropylbenzene	12.48	105	418393	21.884	ug/l	99
74) N-amyl acetate	12.29	43	83392	19.218	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	61696	19.514	ug/l	96
76) 1,2,3-Trichloropropane	12.78	75	40261m	18.417	ug/l	
77) Bromobenzene	12.77	156	100825	21.355	ug/l	99
78) n-propylbenzene	12.83	91	483396	21.913	ug/l	100
79) 2-Chlorotoluene	12.91	91	261479	21.542	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	342008	21.890	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	20108	20.056	ug/l	98
82) 4-Chlorotoluene	13.01	91	277526	21.594	ug/l	99
83) tert-Butylbenzene	13.23	119	291050	21.427	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	332170	21.143	ug/l	99
85) sec-Butylbenzene	13.41	105	401501	21.537	ug/l	100
86) p-Isopropyltoluene	13.53	119	375785	21.351	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	187543	20.929	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	187506	21.194	ug/l	98
89) n-Butylbenzene	13.86	91	342800	21.448	ug/l	99
90) Hexachloroethane	14.12	117	75081	22.808	ug/l	93
91) 1,2-Dichlorobenzene	13.90	146	162371	21.202	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	9272	16.710	ug/l	93

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VD1217SBSD01

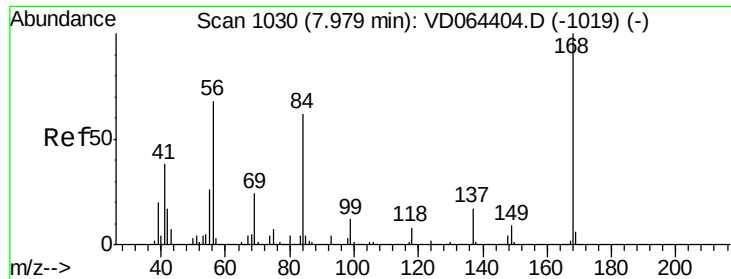
Manual Integrations
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12/18/2019 1:00:48 PM

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	120947	20.622	ug/l	99
94) Hexachlorobutadiene	15.28	225	75662	20.897	ug/l	99
95) Naphthalene	15.41	128	188887	19.298	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	99253	19.825	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBS01

Tot Ion:168 Resp: 413520

Ion Ratio Lower Upper

168 100

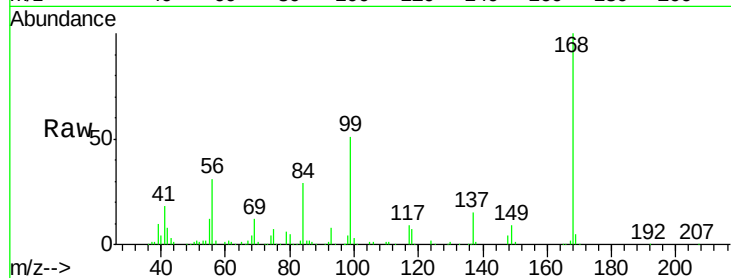
99 50.5 40.7 61.1

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

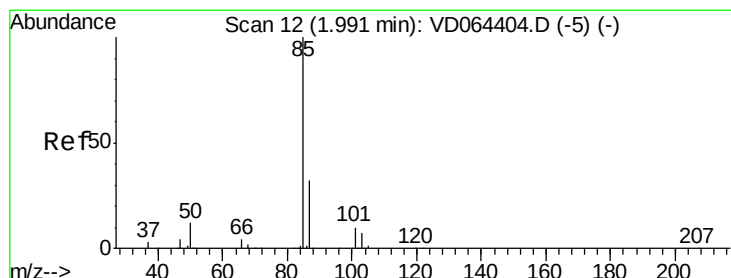
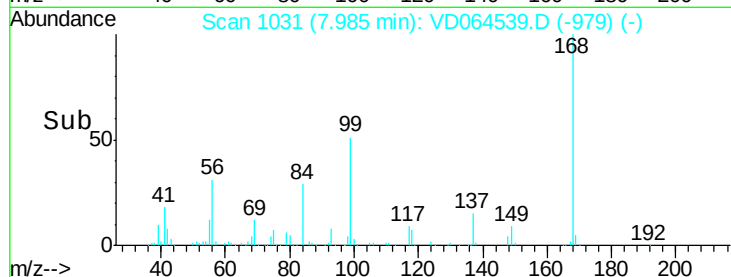
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.053 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064539.D

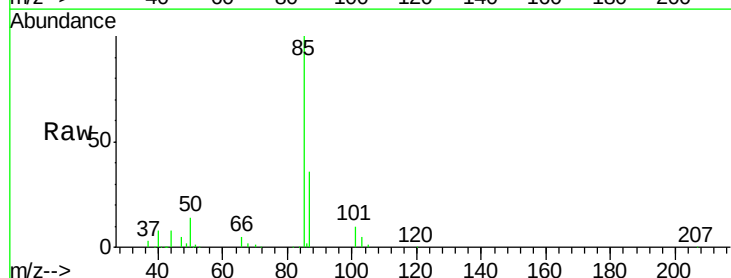
Acq: 17 Dec 2019 12:17

Tgt Ion: 85 Resp: 78883

Ion Ratio Lower Upper

85 100

87 35.5 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

60000

50000

40000

30000

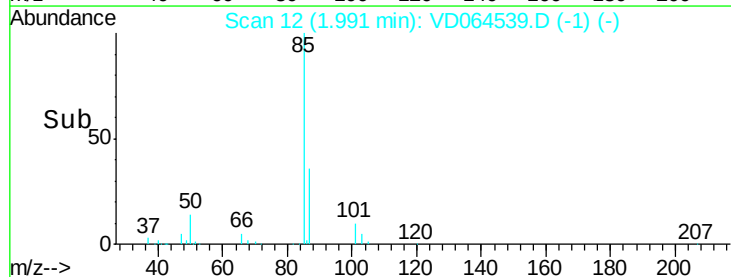
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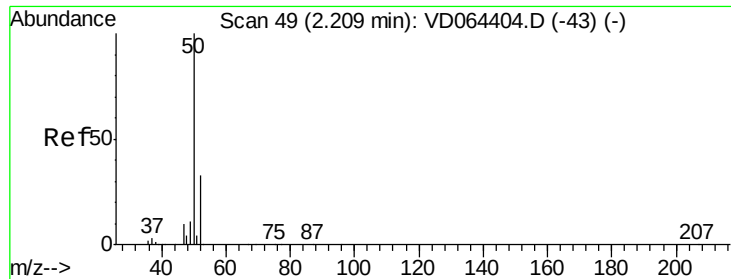
10000

0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 21.624 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBSD01

Tot Ion: 50 Resp: 102194

Ion Ratio Lower Upper

50 100

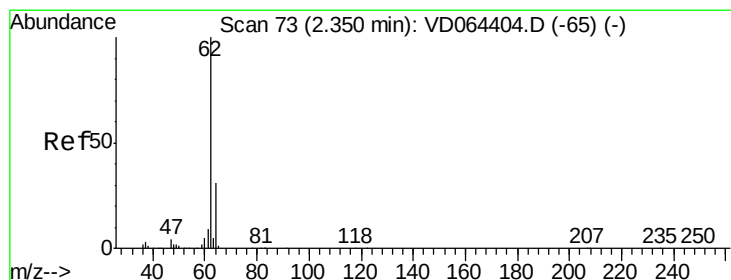
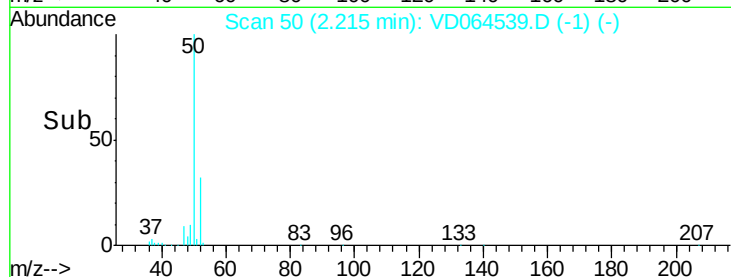
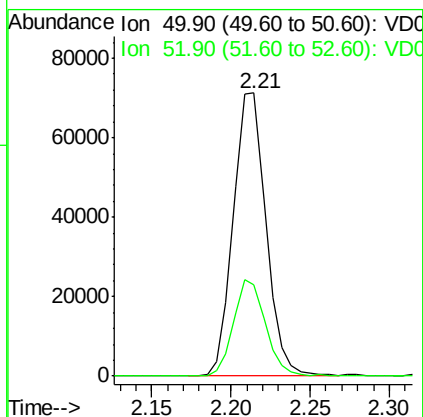
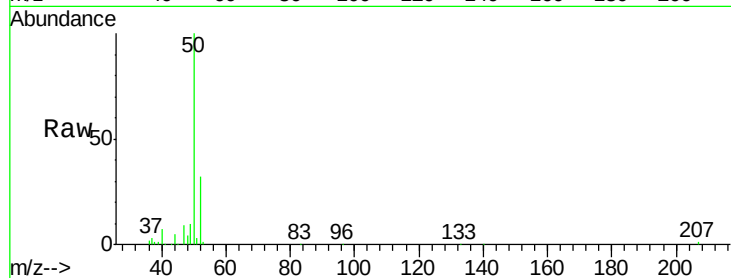
52 32.3 26.7 40.1

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#4

Vinyl Chloride

Concen: 22.621 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064539.D

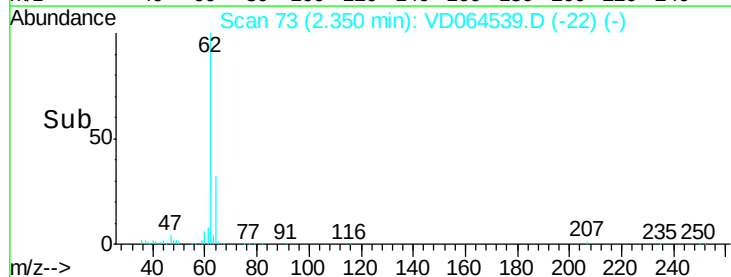
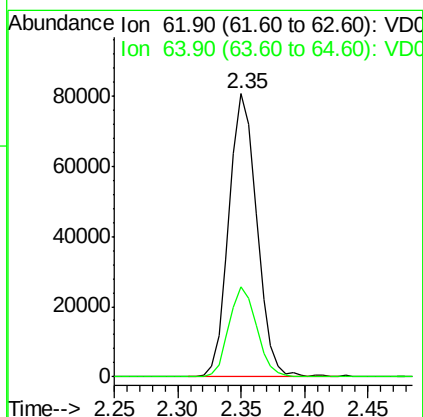
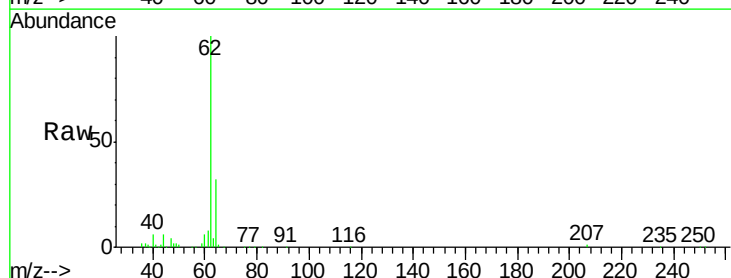
Acq: 17 Dec 2019 12:17

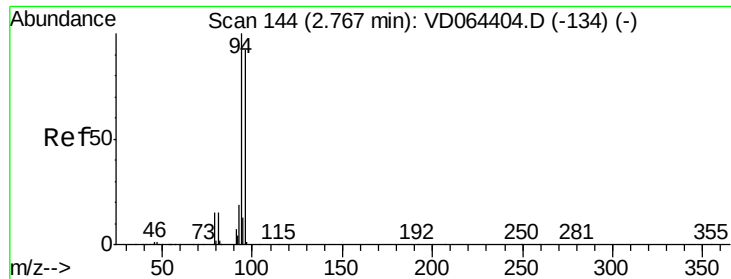
Tgt Ion: 62 Resp: 123433

Ion Ratio Lower Upper

62 100

64 31.8 25.0 37.4





#5

Bromomethane

Concen: 21.138 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBSD01

Tot Ion: 94 Resp: 85296

Ion Ratio Lower Upper

94 100

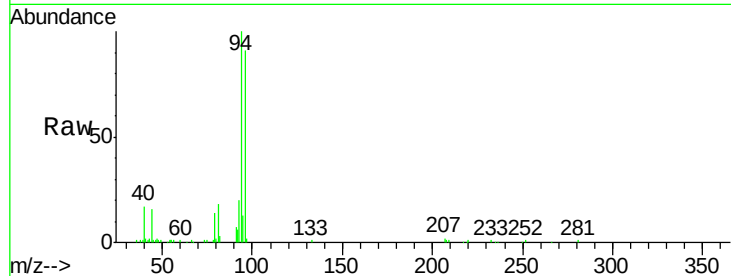
96 91.1 73.6 110.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.76

40000

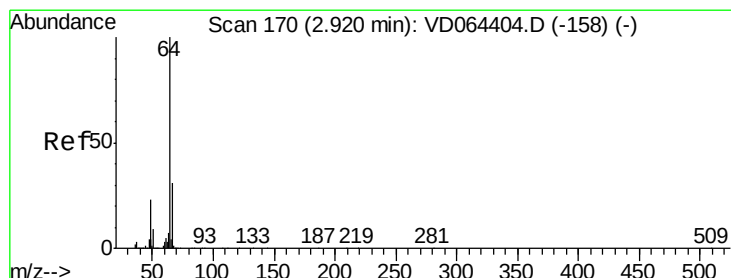
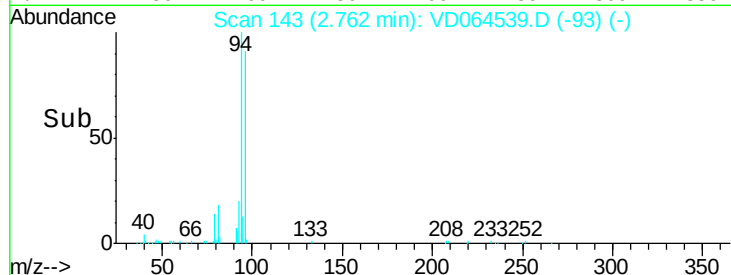
30000

20000

10000

0

Time-->



#6

Chloroethane

Concen: 22.680 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064539.D

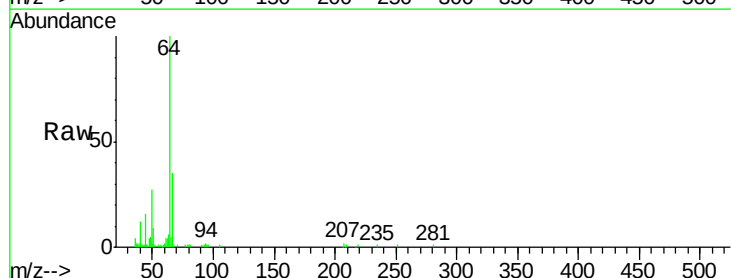
Acq: 17 Dec 2019 12:17

Tgt Ion: 64 Resp: 82718

Ion Ratio Lower Upper

64 100

66 35.1 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.92

40000

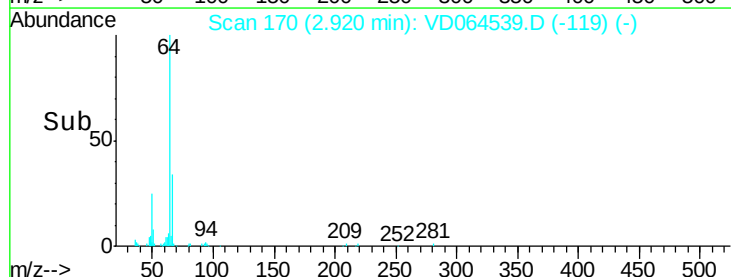
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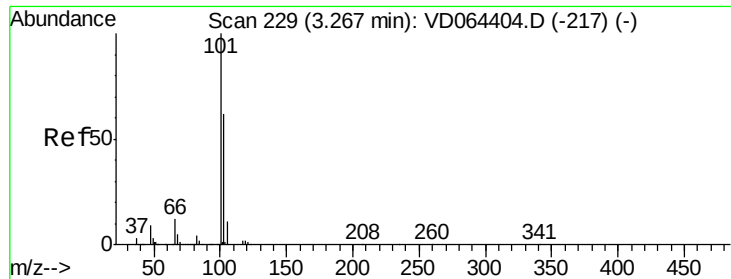
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10000

0

Time-->





#7

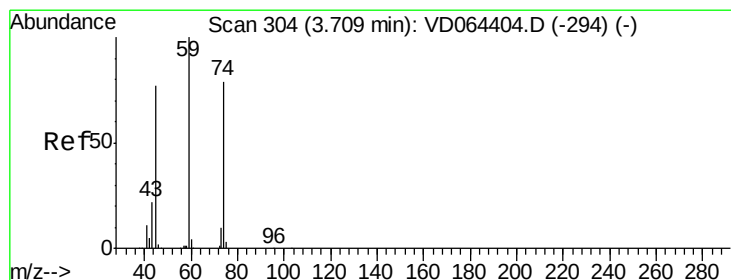
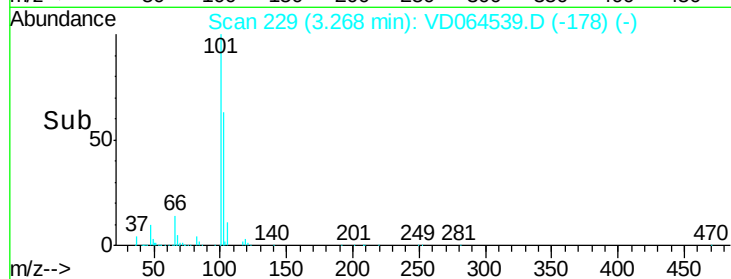
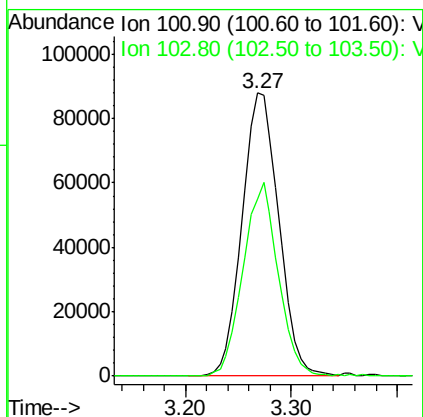
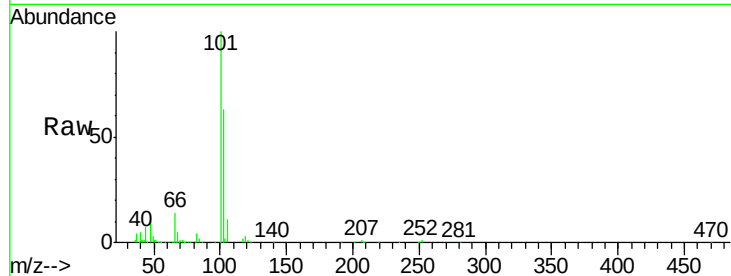
Trichlorofluoromethane
Concen: 23.429 ug/l
RT: 3.27 min Scan# 229
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	212523		
103	62.6	49.8	74.6	

Manual Integrations
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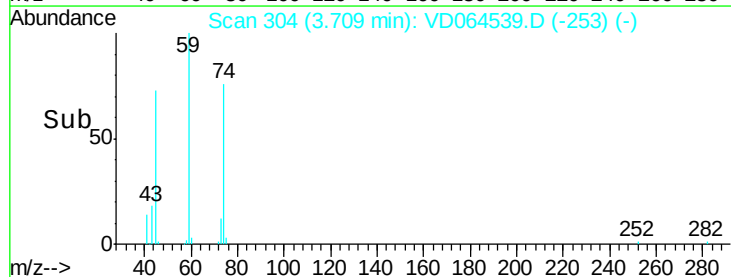
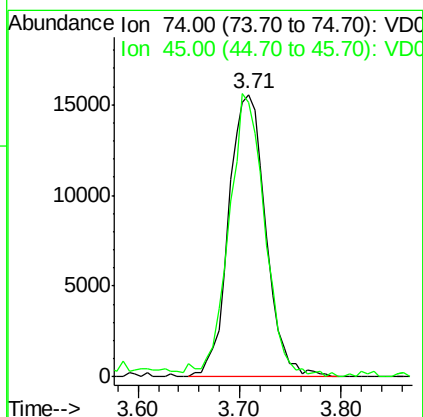
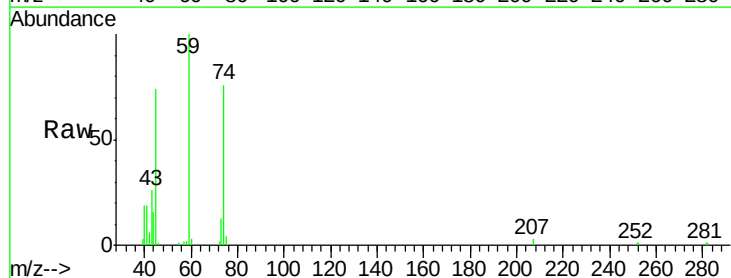
MMDadoda
12/18/2019 1:00:48 PM

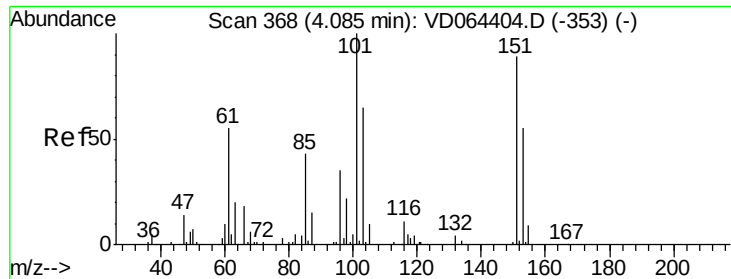


#8

Diethyl Ether
Concen: 20.899 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	39394		
45	98.2	48.6	145.9	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.096 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

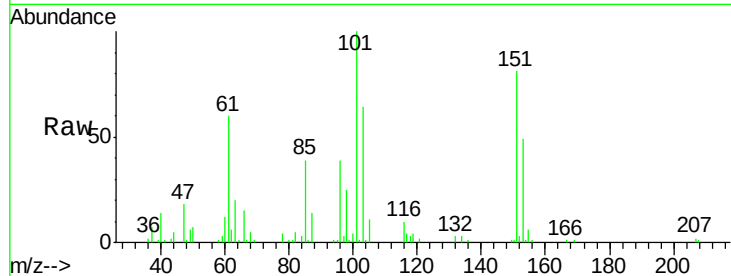
ClientSampleId :

VD1217SBSD01

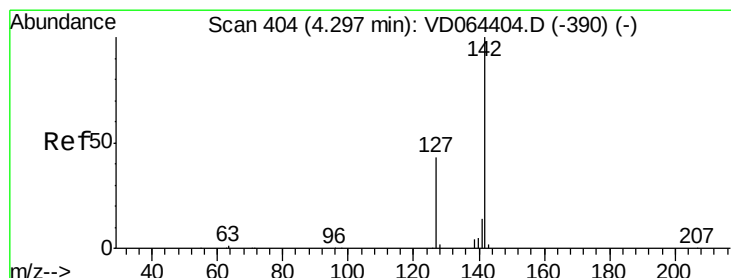
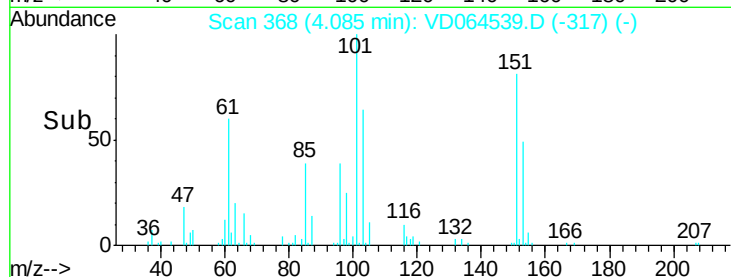
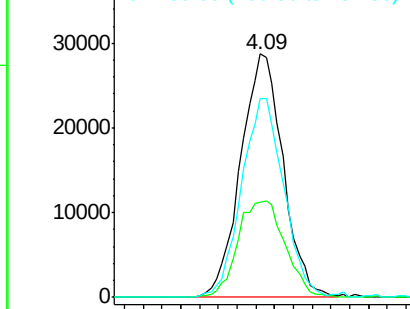
Tot Ion:	101	Resp:	89831
Ion Ratio	Lower	Upper	
101	100		
85	44.2	34.8	52.2
151	81.0	68.8	103.2

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



#10

Methyl Iodide

Concen: 21.466 ug/l

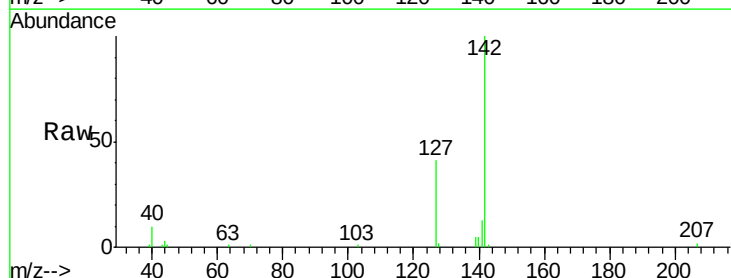
RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

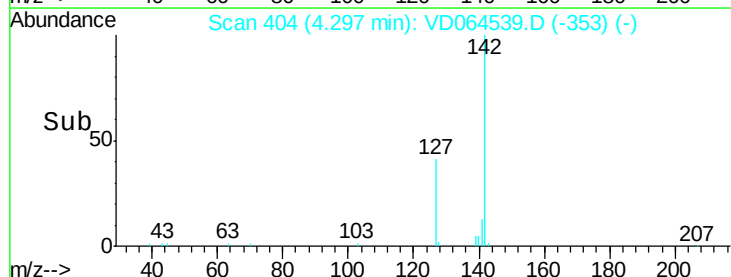
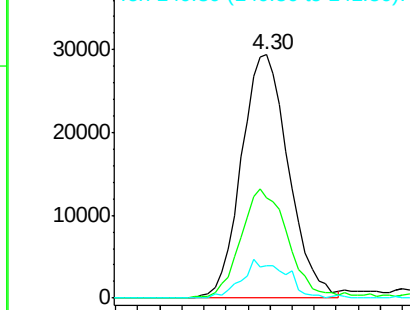
Lab File: VD064539.D

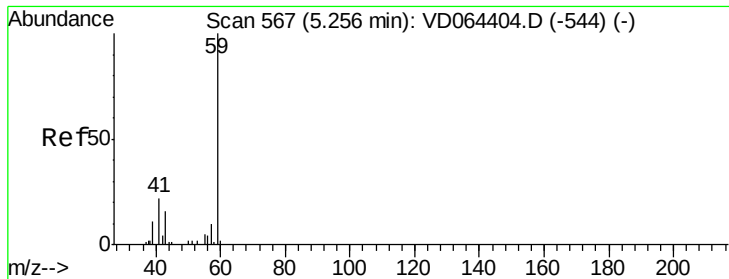
Acq: 17 Dec 2019 12:17

Tgt Ion:	142	Resp:	88167
Ion Ratio	Lower	Upper	
142	100		
127	44.6	35.3	52.9
141	14.6	11.6	17.4



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

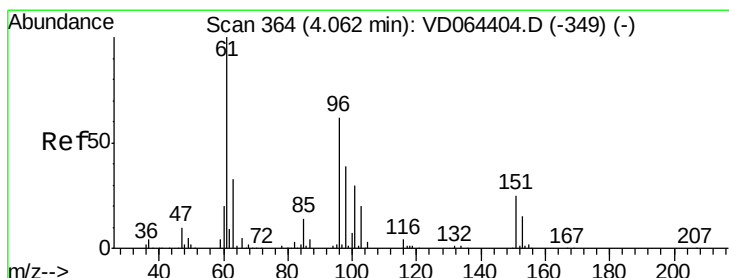
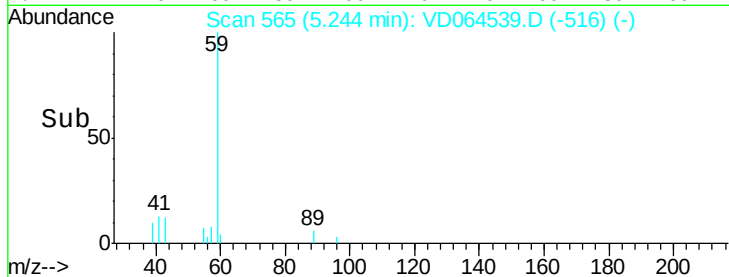
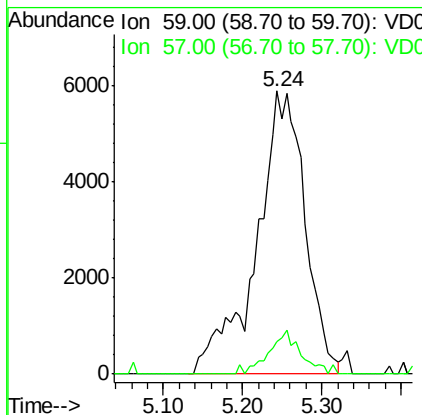
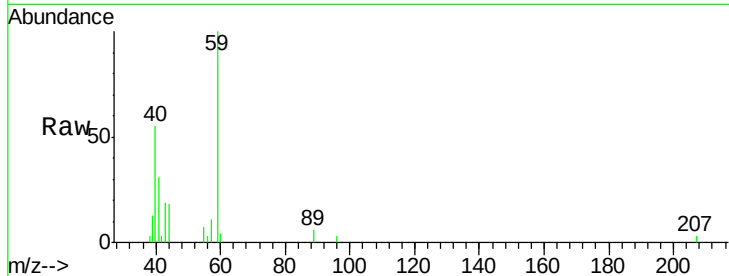
Tert butyl alcohol
Concen: 105.625 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	25166		
57	9.8	0.0	0.0	0.0

Manual Integrations
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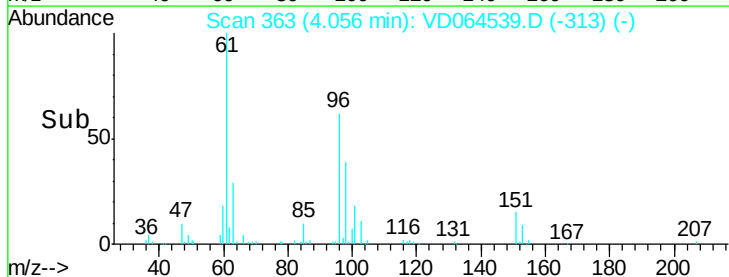
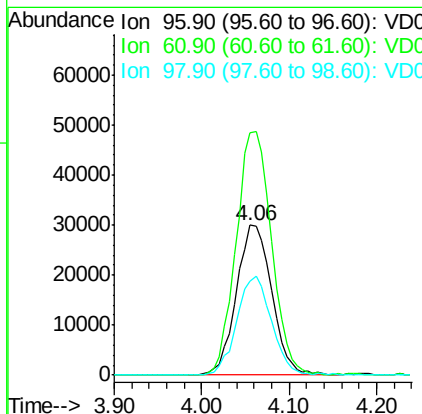
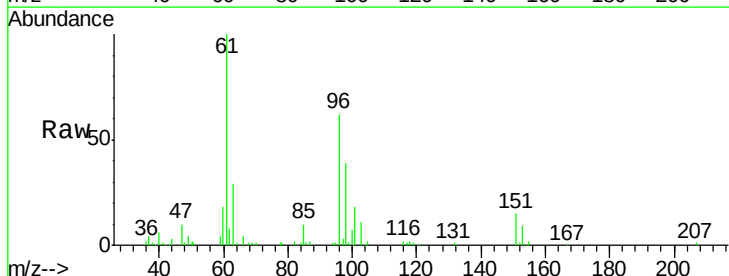
MMDadoda
12/18/2019 1:00:48 PM

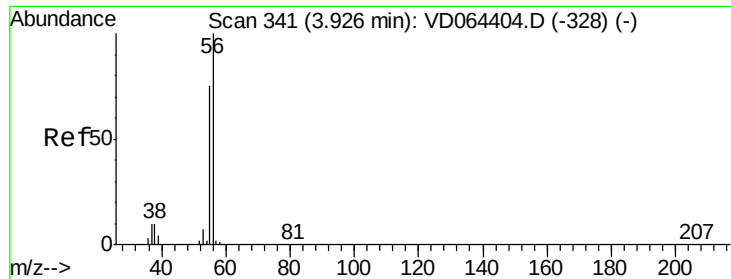


#12

1,1-Dichloroethene
Concen: 22.065 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	82242		
61	161.3	128.2	192.4	
98	62.8	50.4	75.6	





#13

Acrolein

Concen: 74.112 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBSD01

Tot Ion: 56 Resp: 24085

Ion Ratio Lower Upper

56 100

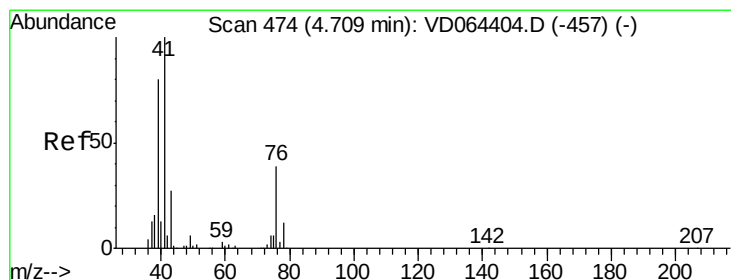
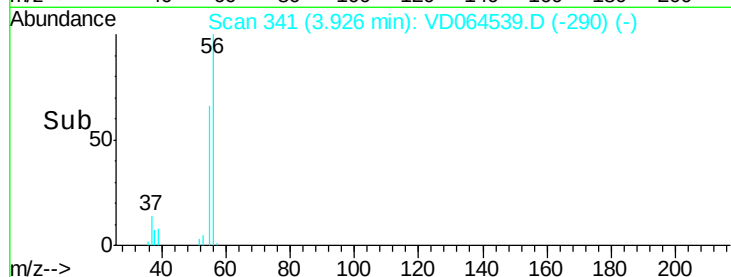
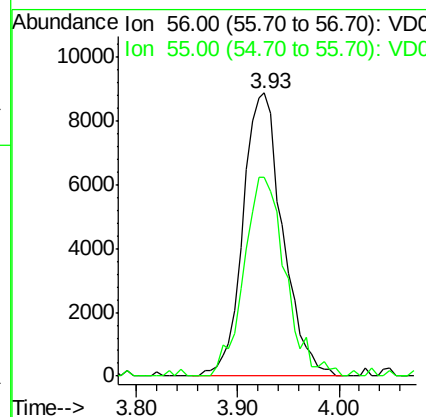
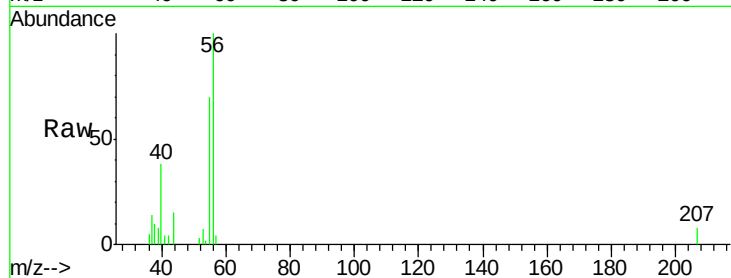
55 72.4 56.9 85.3

Manual Integrations

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#14

Allyl chloride

Concen: 22.337 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

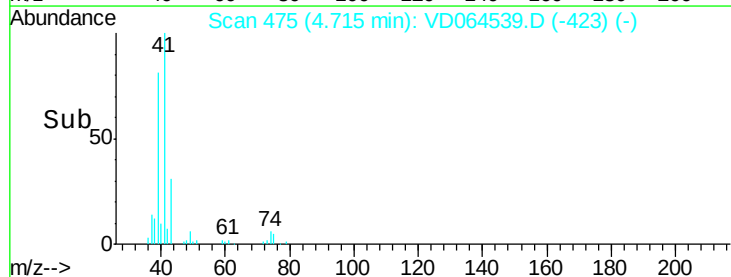
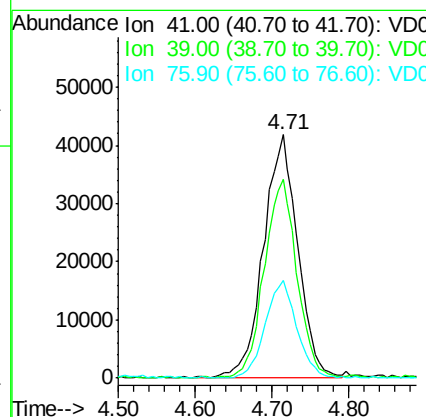
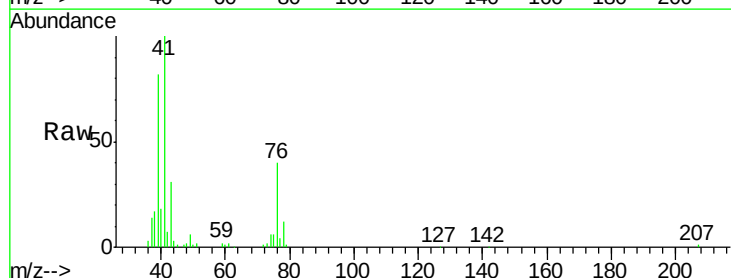
Tgt Ion: 41 Resp: 129934

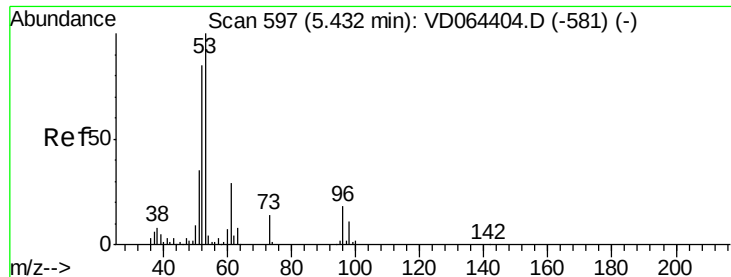
Ion Ratio Lower Upper

41 100

39 77.7 62.1 93.1

76 36.8 29.8 44.8





#15

Acrylonitrile

Concen: 101.312 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

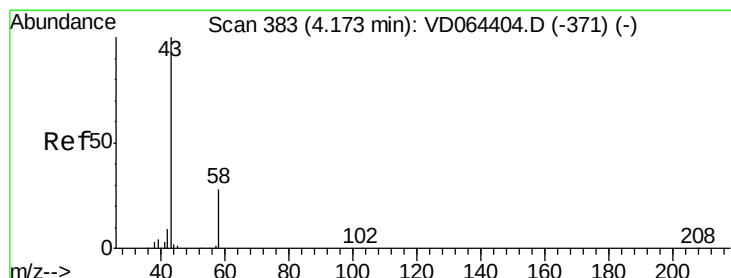
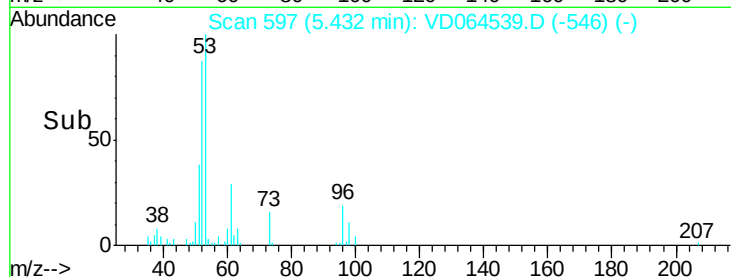
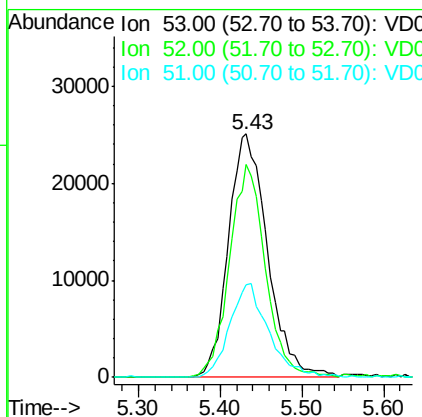
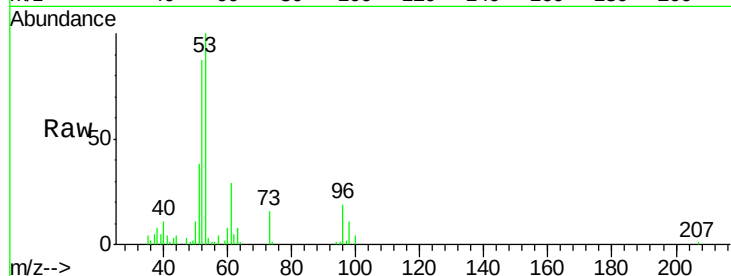
ClientSampleId :

VD1217SBS01

Tot Ion:	53	Resp:	83509
Ion Ratio	Lower	Upper	
53	100		
52	80.3	67.9	101.9
51	38.1	30.6	45.8

Manual Integrations
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#16

Acetone

Concen: 103.659 ug/l

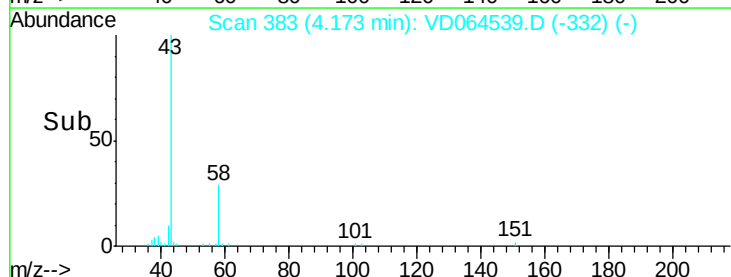
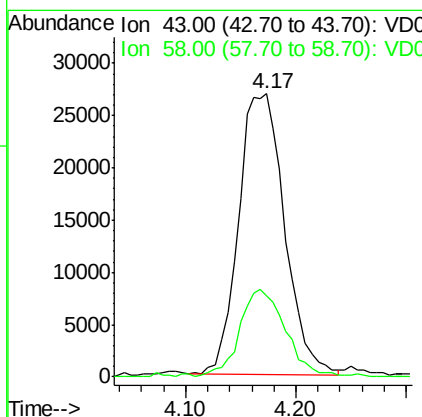
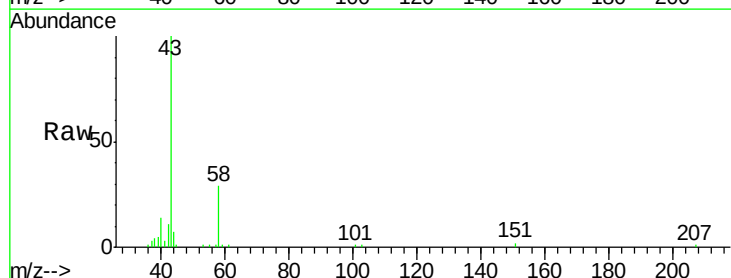
RT: 4.17 min Scan# 383

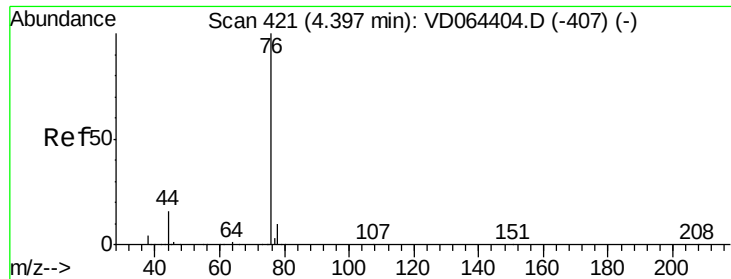
Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Tgt Ion:	43	Resp:	78405
Ion Ratio	Lower	Upper	
43	100		
58	28.2	22.6	33.8





#17

Carbon Disulfide

Concen: 21.311 ug/l

RT: 4.40 min Scan# 421

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBS01

Tot Ion: 76 Resp: 251570

Ion Ratio Lower Upper

76 100

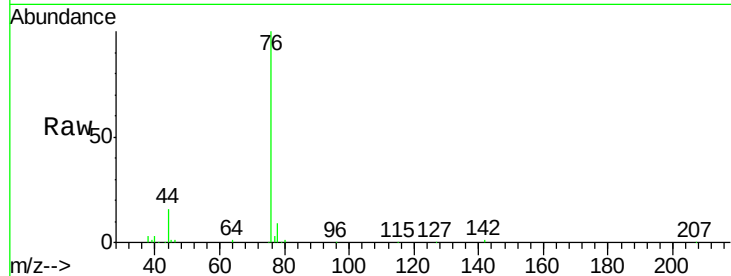
78 9.4 7.8 11.8

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.40

100000

80000

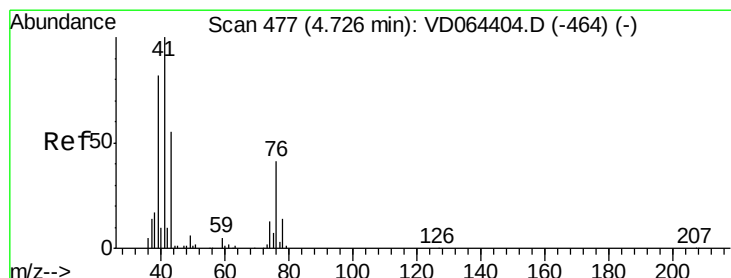
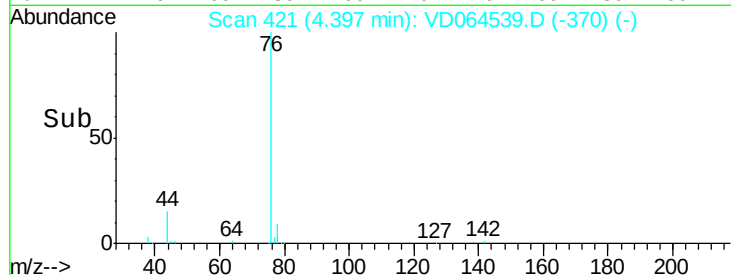
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 21.129 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD064539.D

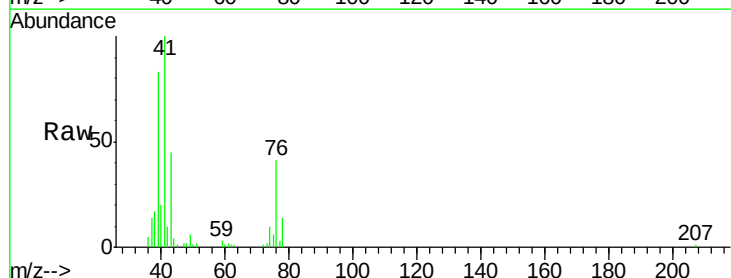
Acq: 17 Dec 2019 12:17

Tgt Ion: 43 Resp: 46616

Ion Ratio Lower Upper

43 100

74 24.3 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.72

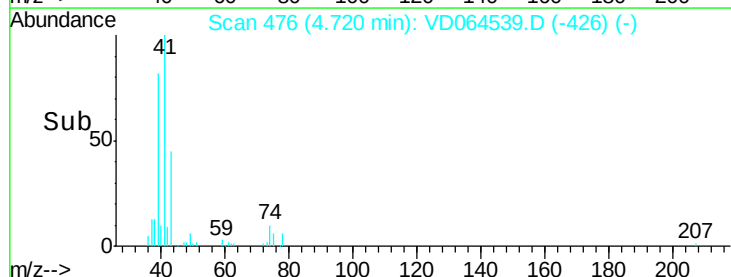
15000

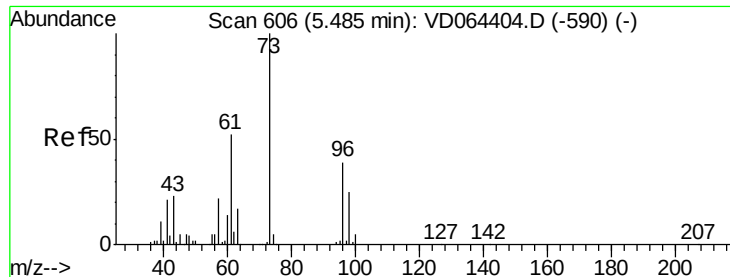
10000

5000

0

Time-->





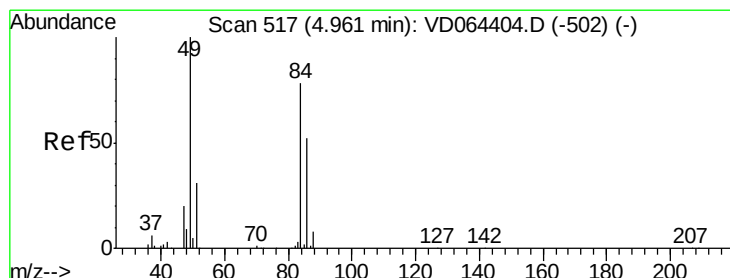
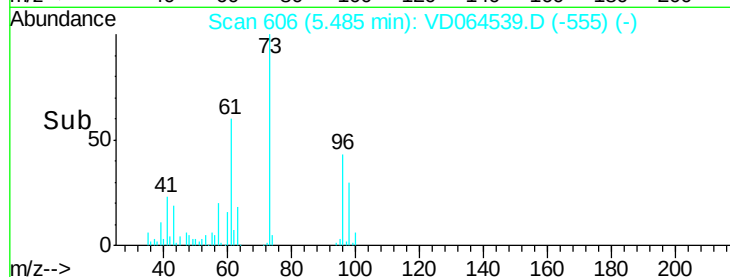
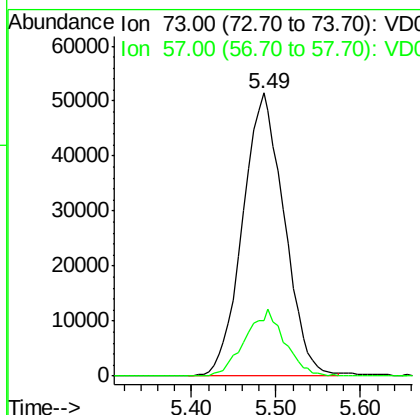
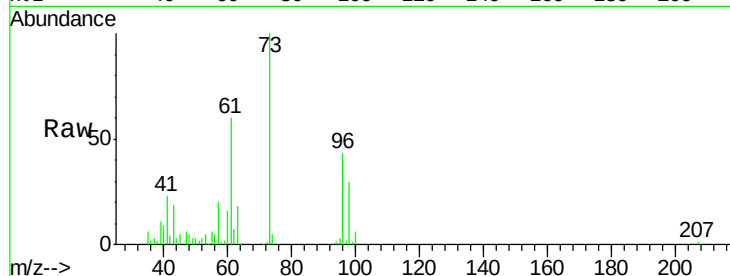
#19
Methyl tert-butyl Ether
Concen: 20.591 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion: 73 Resp: 176051
Ion Ratio Lower Upper
73 100
57 19.7 17.6 26.4

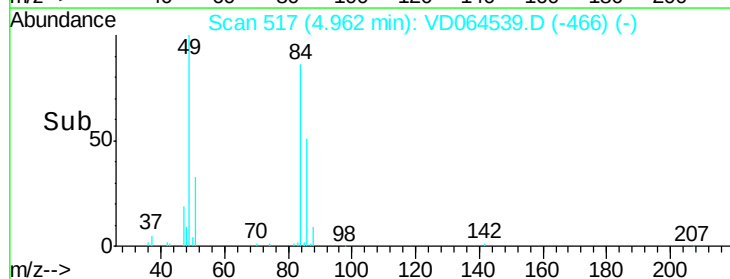
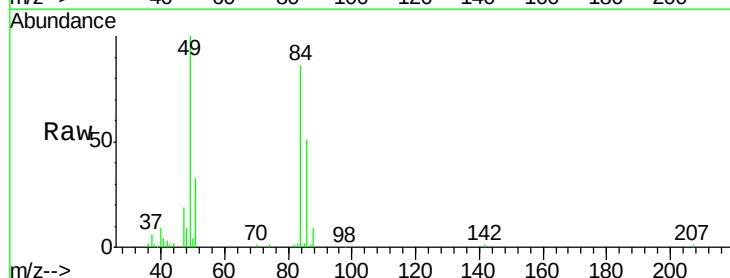
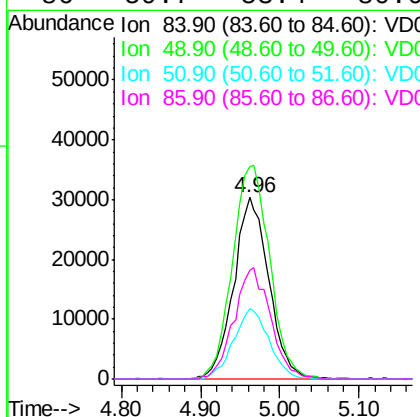
Manual Integrations
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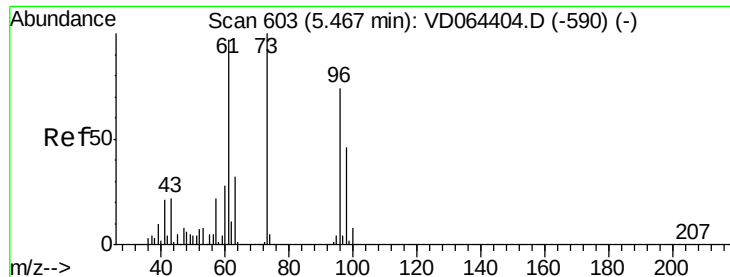
MMDadoda
12/18/2019 1:00:48 PM



#20
Methylene Chloride
Concen: 21.852 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion: 84 Resp: 93603
Ion Ratio Lower Upper
84 100
49 116.9 102.6 153.8
51 38.7 32.0 48.0
86 59.7 53.4 80.0





#21

trans-1,2-Dichloroethene

Concen: 22.049 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBS01

Tot Ion: 96 Resp: 92960

Ion Ratio Lower Upper

96 100

61 128.5 105.8 158.6

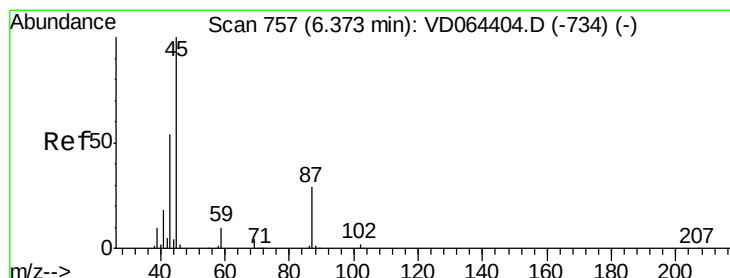
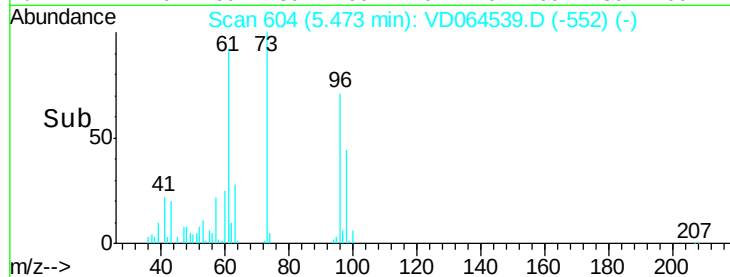
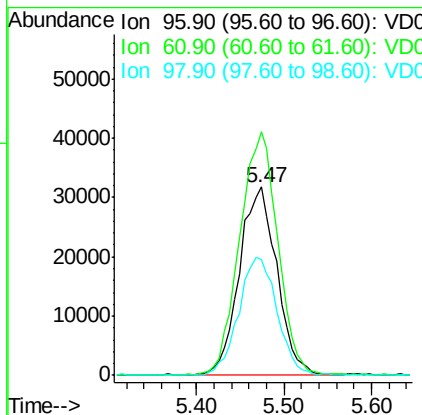
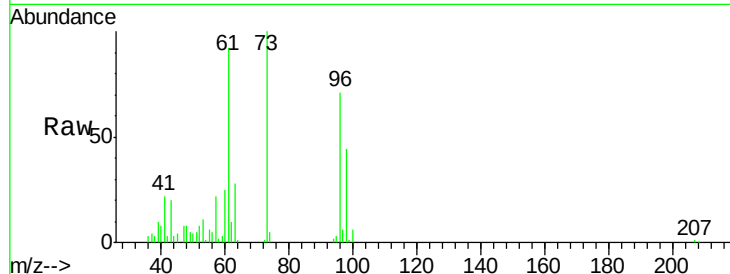
98 61.2 50.1 75.1

Manual Integrations

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MMDadoda

12/18/2019 1:00:48 PM



#22

Diisopropyl ether

Concen: 21.638 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Tgt Ion: 45 Resp: 248470

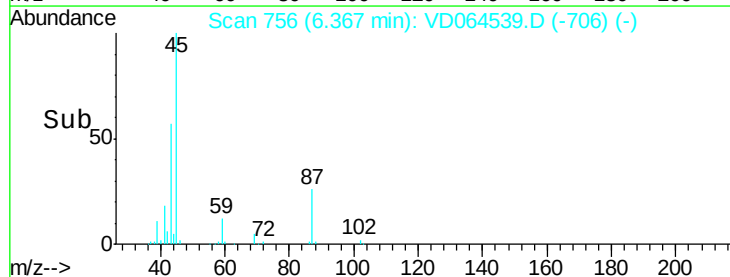
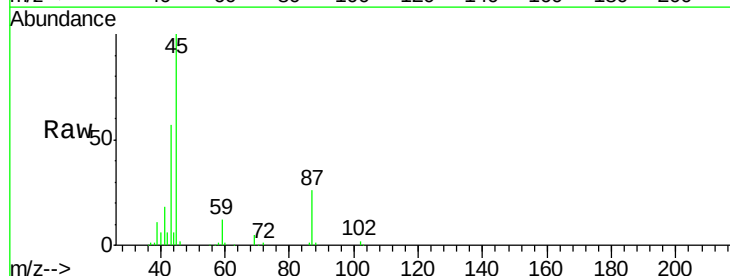
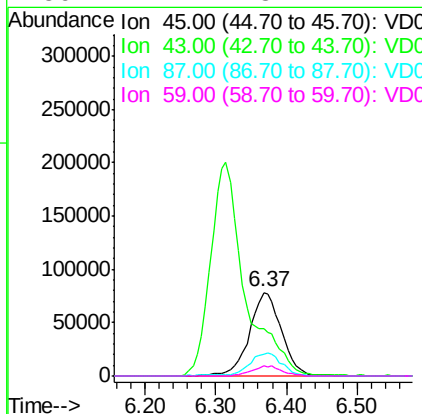
Ion Ratio Lower Upper

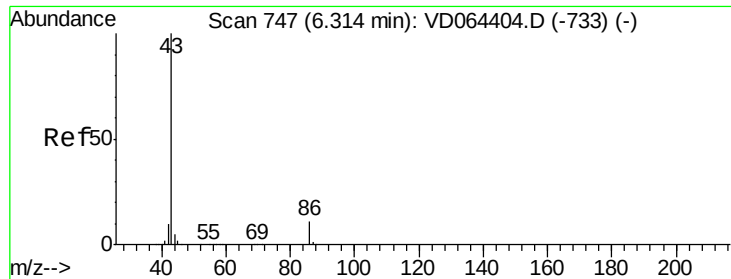
45 100

43 56.2 43.1 64.7

87 26.1 23.5 35.3

59 12.4 8.2 12.2#





#23

Vinyl Acetate

Concen: 100.357 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBS01

Tot Ion: 43 Resp: 679394

Ion Ratio Lower Upper

43 100

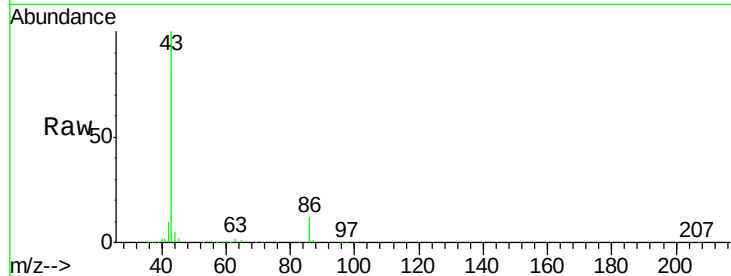
86 11.6 8.9 13.3

Manual Integrations

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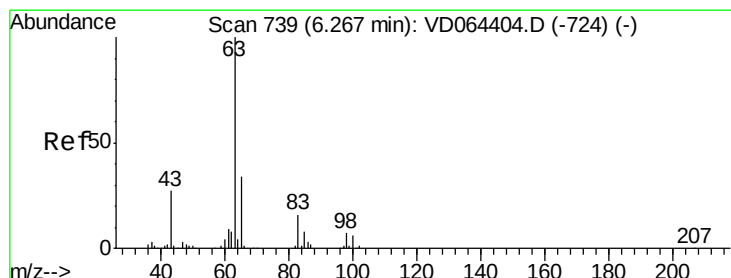
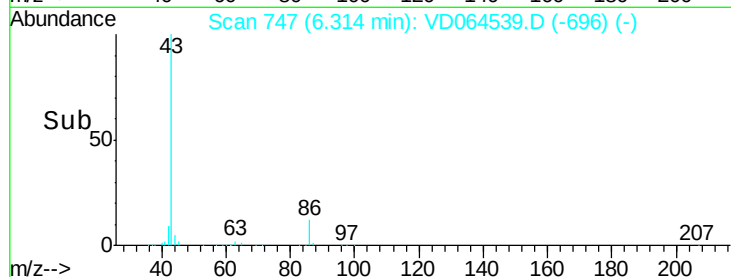
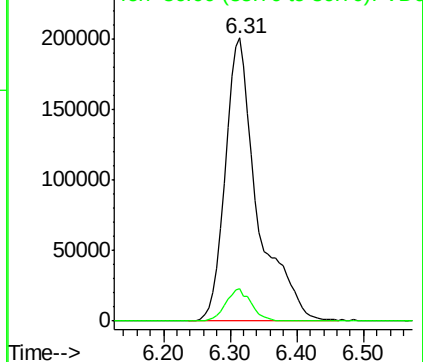
MMDadoda

12/18/2019 1:00:48 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.068 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

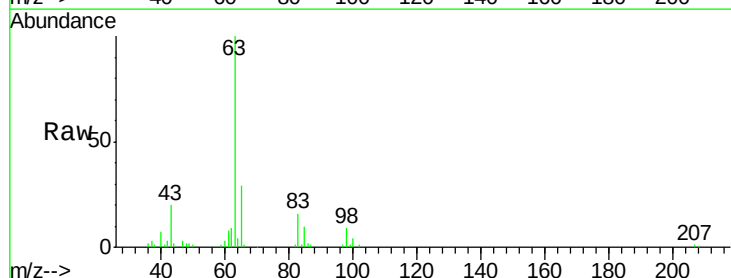
Tgt Ion: 63 Resp: 152399

Ion Ratio Lower Upper

63 100

98 8.9 3.6 10.9

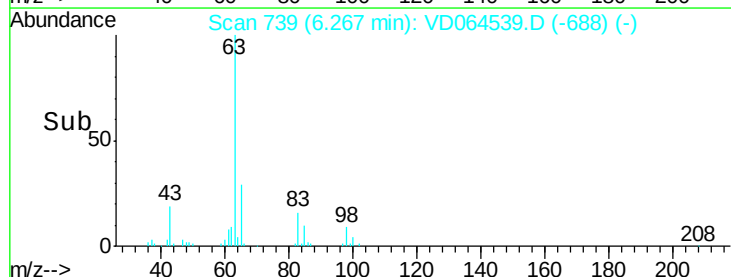
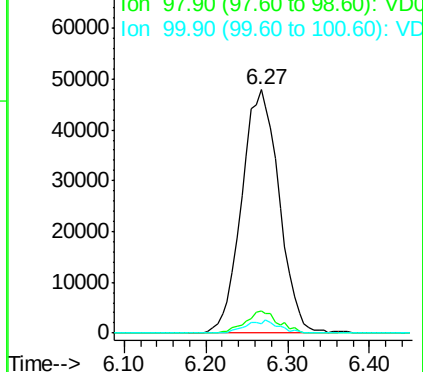
100 4.1 2.9 8.6

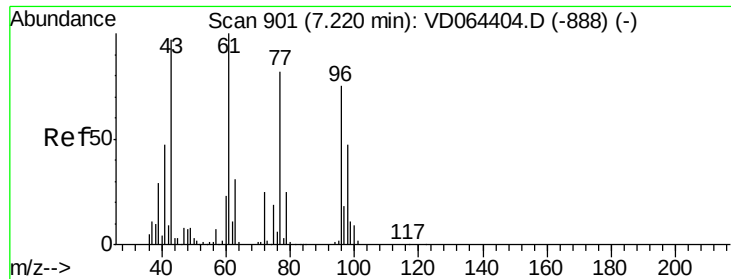


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 97.841 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBSD01

Tot Ion: 43 Resp: 104658

Ion Ratio Lower Upper

43 100

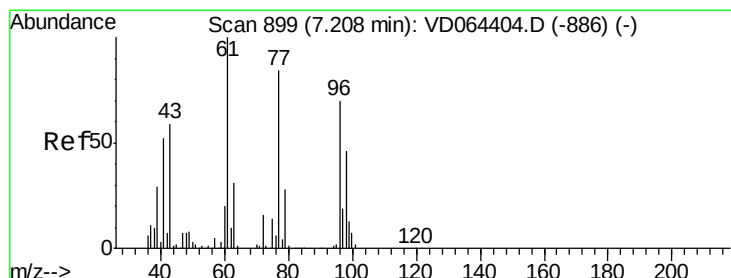
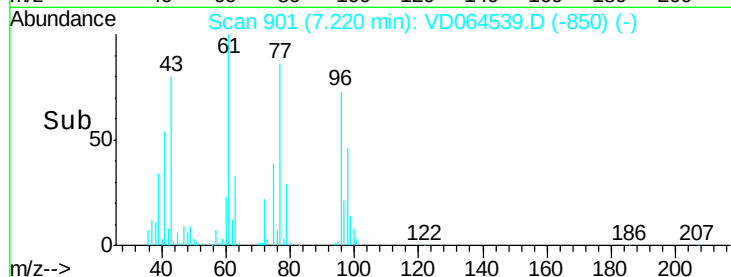
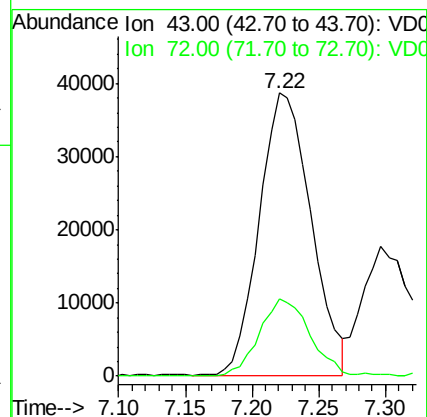
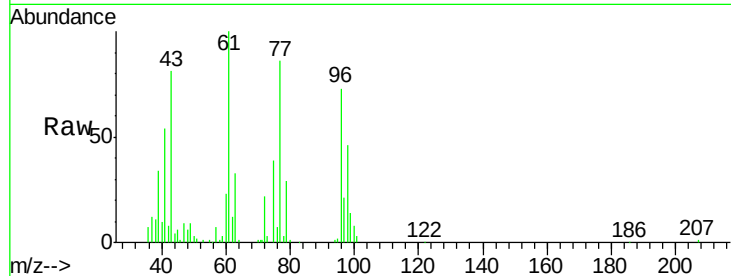
72 27.4 21.0 31.4

Manual Integrations

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MMDadoda

12/18/2019 1:00:48 PM



#26

2,2-Dichloropropane

Concen: 23.262 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064539.D

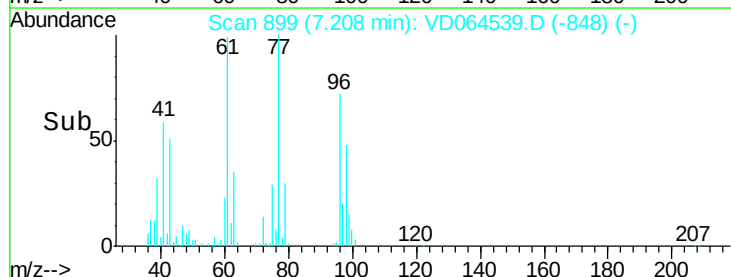
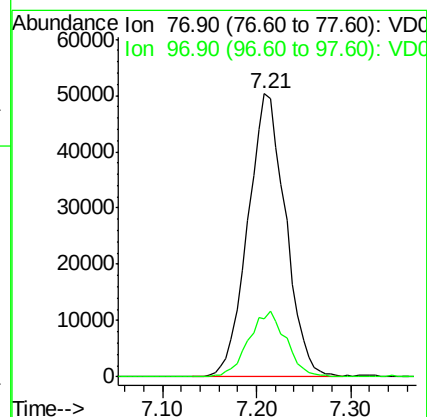
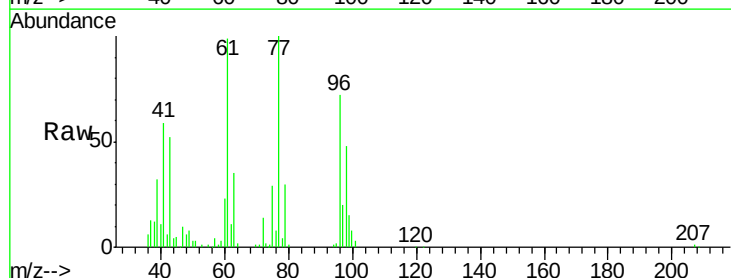
Acq: 17 Dec 2019 12:17

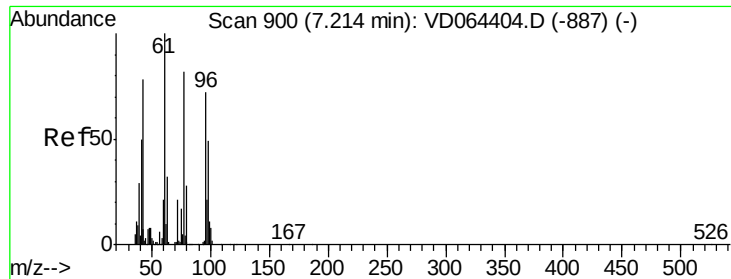
Tgt Ion: 77 Resp: 139704

Ion Ratio Lower Upper

77 100

97 23.1 11.6 34.7





#27

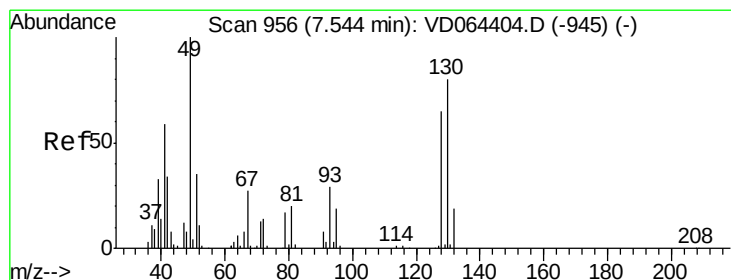
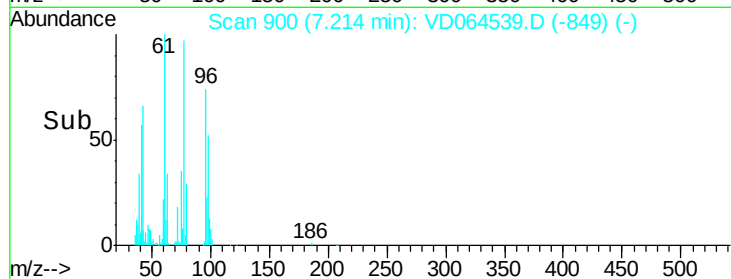
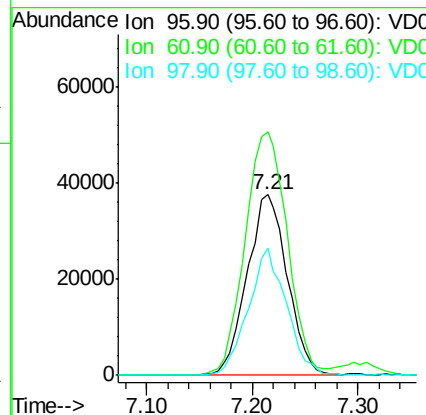
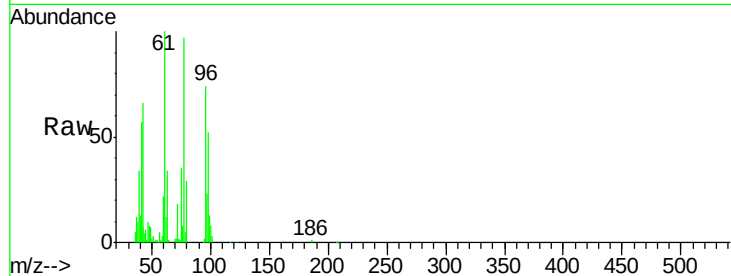
cis-1,2-Dichloroethene
 Concen: 21.697 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	279.6
98	66.3	0.0	129.2

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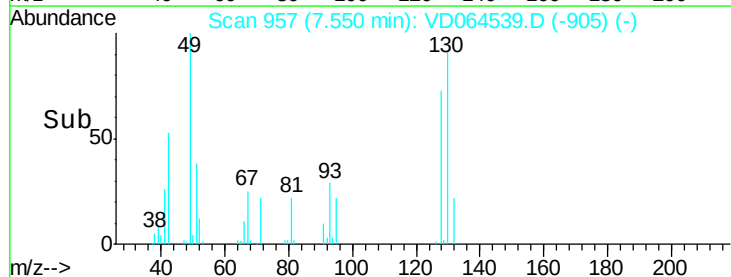
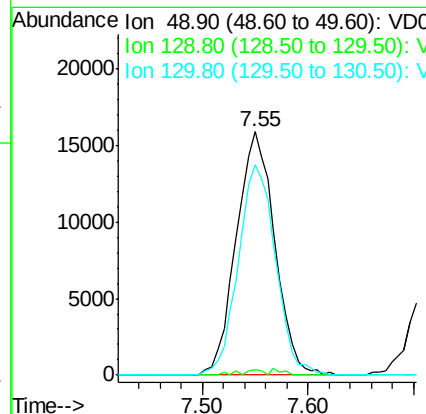
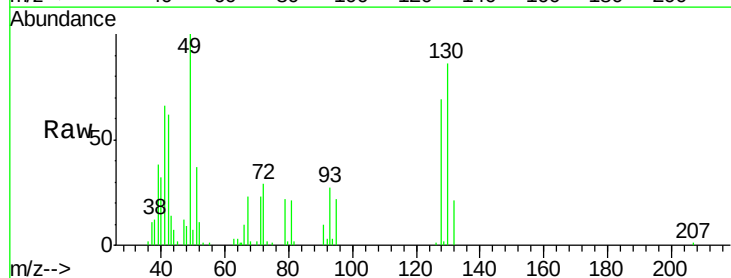
MMDadoda
 12/18/2019 1:00:48 PM

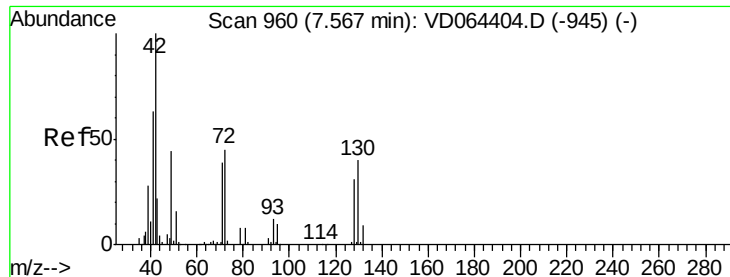


#28

Bromochloromethane
 Concen: 16.964 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.01 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.4
130	84.3	67.4	101.0





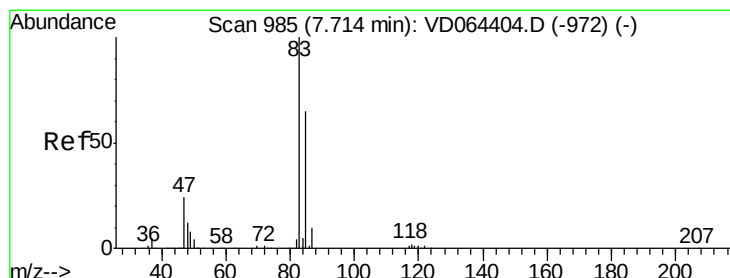
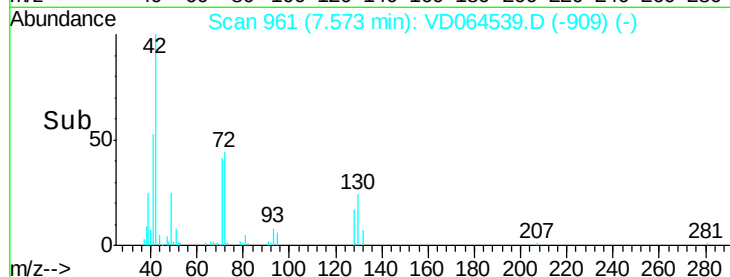
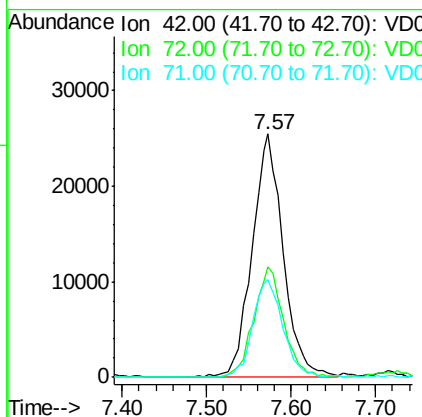
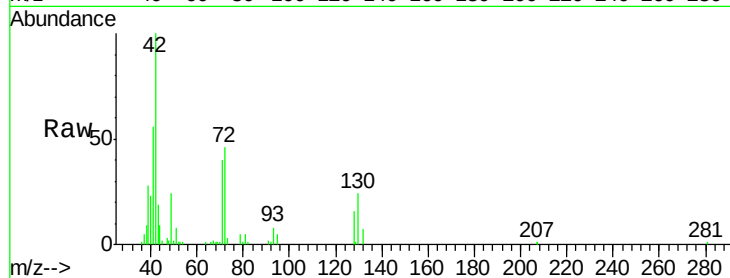
#29
Tetrahydrofuran
Concen: 96.207 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.0	35.8	53.8
71	39.0	32.7	49.1

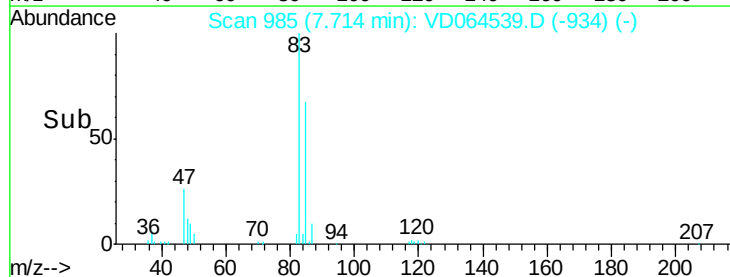
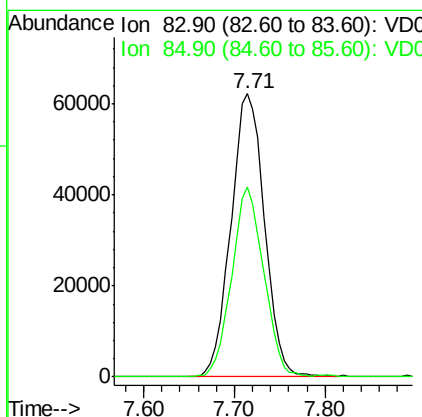
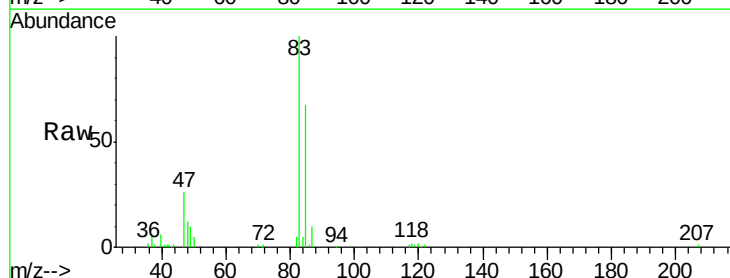
Manual Integrations
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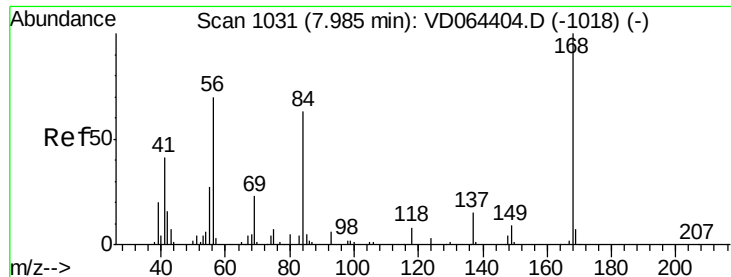
MMDadoda
12/18/2019 1:00:48 PM



#30
Chloroform
Concen: 22.316 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.8	77.6





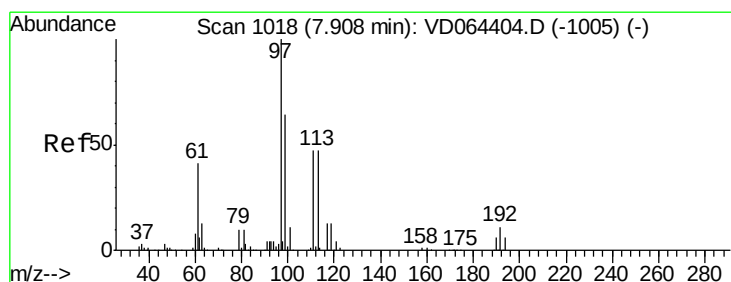
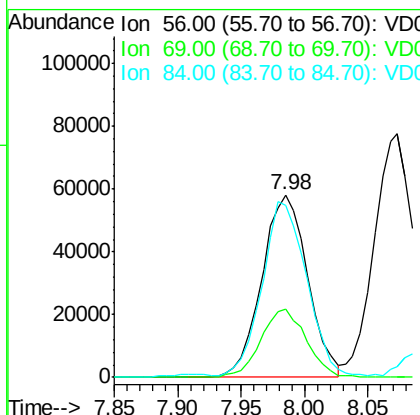
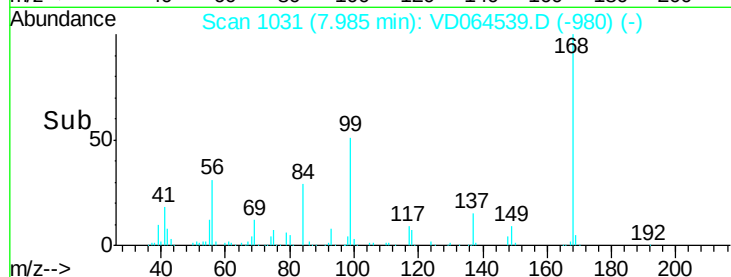
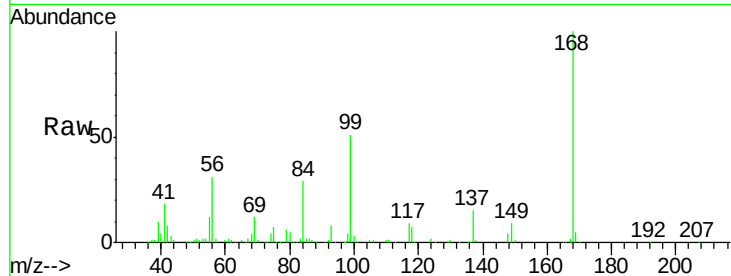
#31
Cyclohexane
Concen: 21.677 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.5	26.2	39.4
84	92.4	70.3	105.5

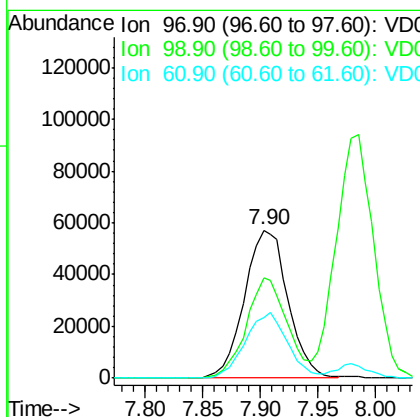
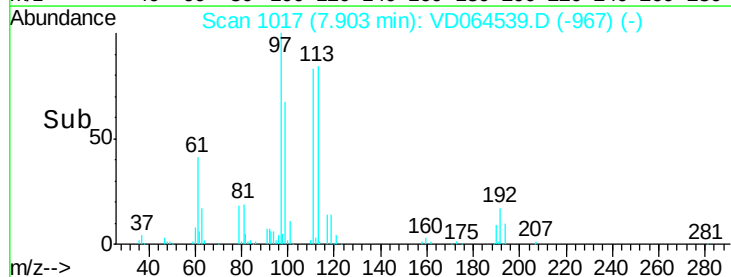
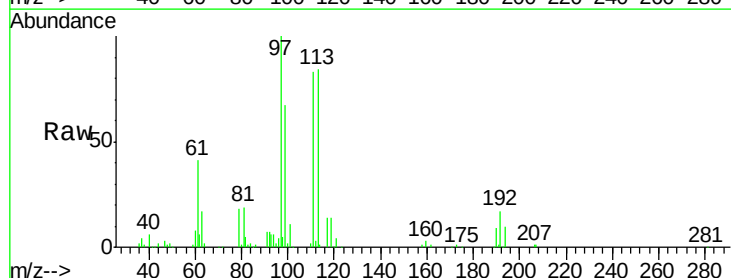
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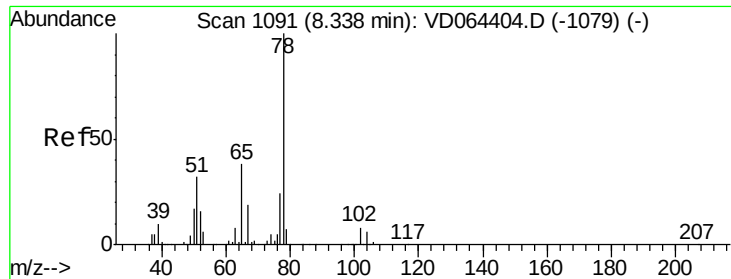
MMDadoda
12/18/2019 1:00:48 PM



#32
1,1,1-Trichloroethane
Concen: 22.537 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.4	77.2
61	43.3	35.0	52.4





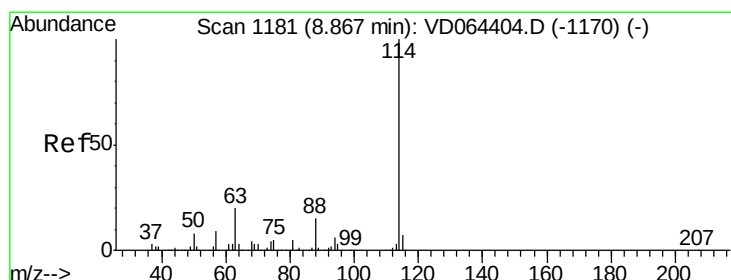
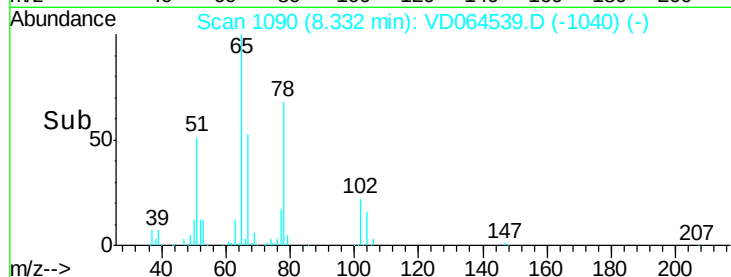
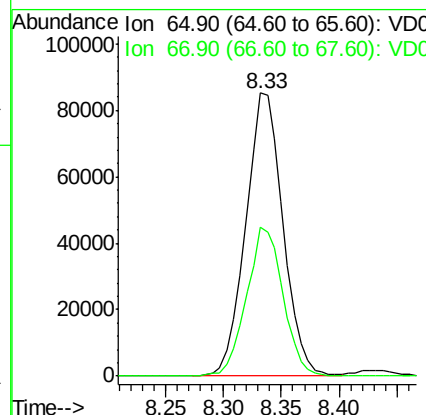
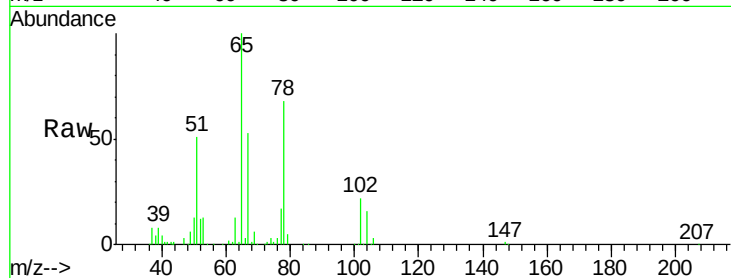
#33
 1,2-Dichloroethane-d4
 Concen: 51.197 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	191628		
67	51.6	0.0	102.0	

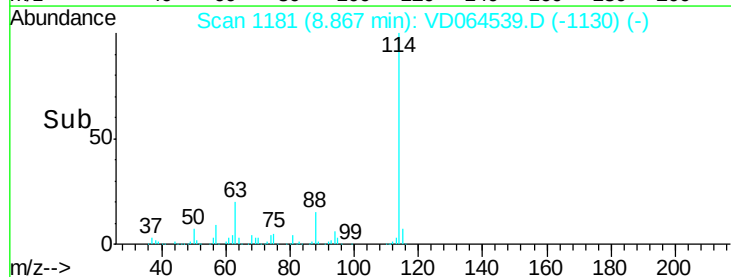
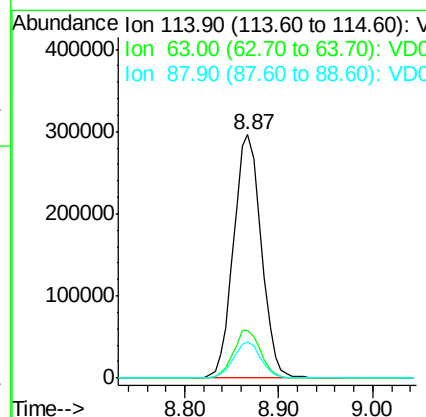
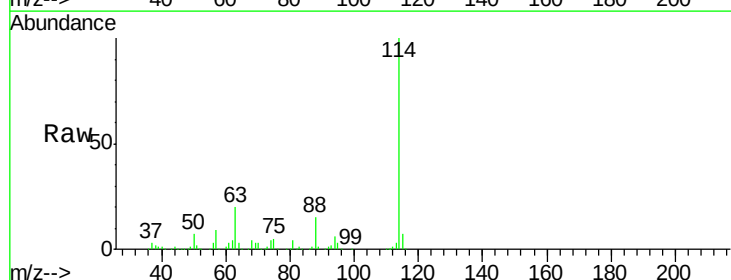
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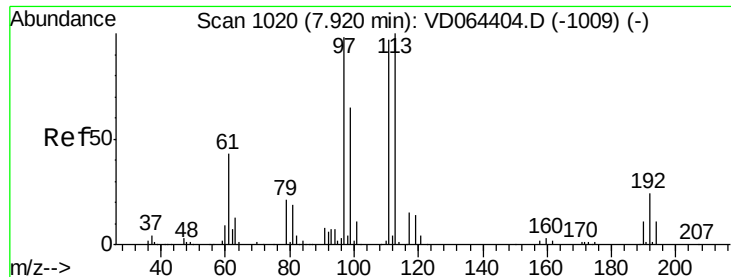
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 12/18/2019 1:00:48 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	607557		
63	19.5	0.0	40.0	
88	14.9	0.0	29.2	





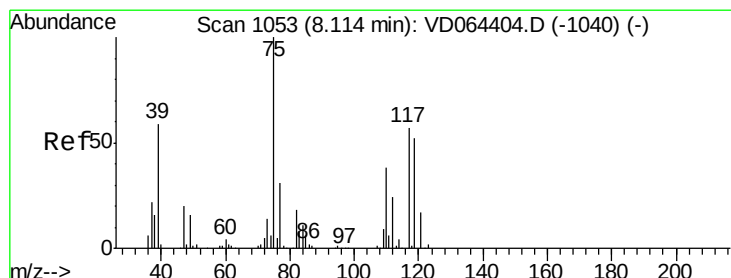
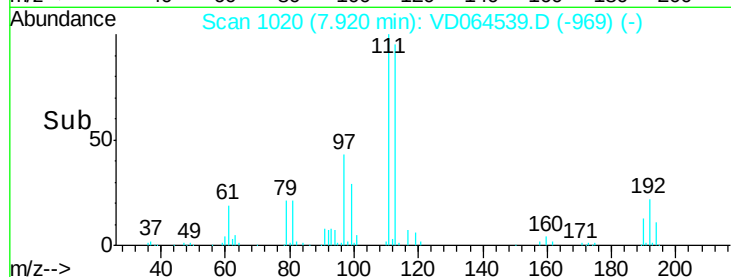
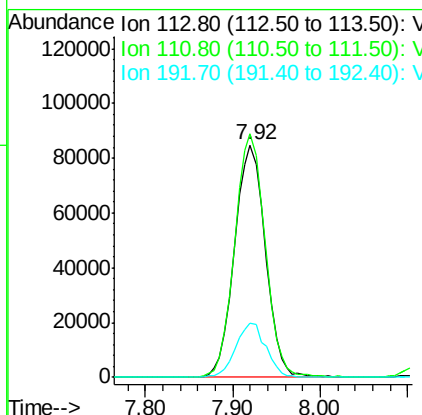
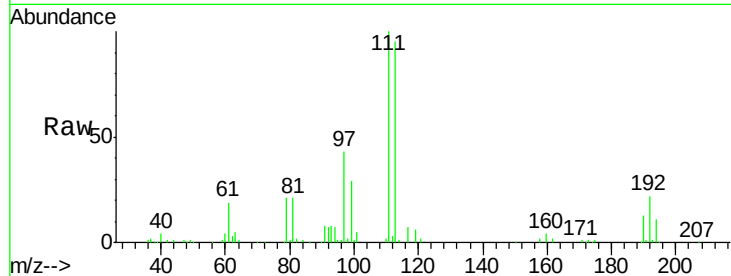
#35
Dibromofluoromethane
Concen: 53.036 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	203016		
111	103.1	79.4	119.2	
192	22.7	18.6	28.0	

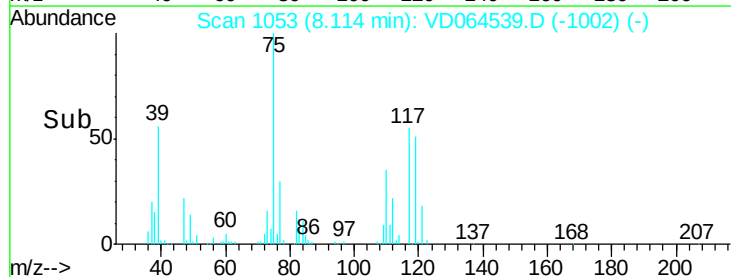
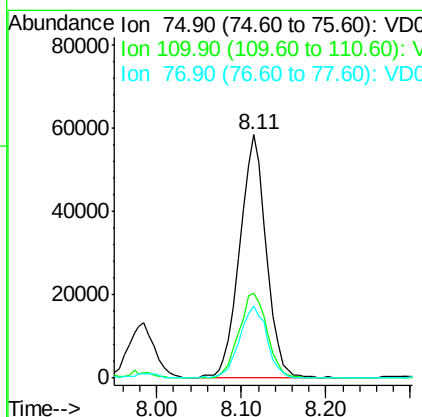
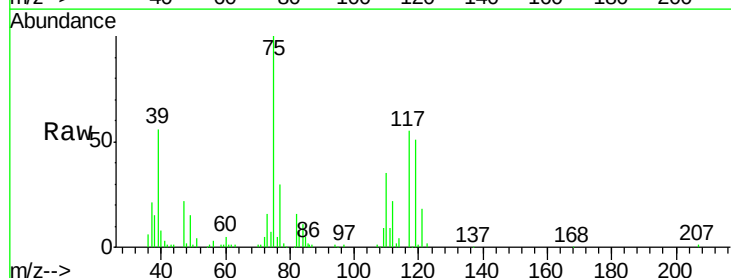
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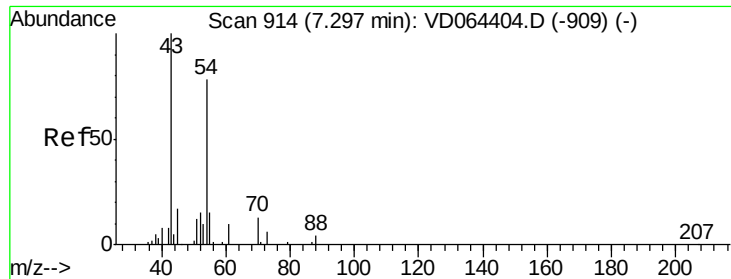
MMDadoda
12/18/2019 1:00:48 PM



#36
1,1-Dichloropropene
Concen: 22.167 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	127384		
110	37.2	18.6	55.8	
77	30.7	25.0	37.4	





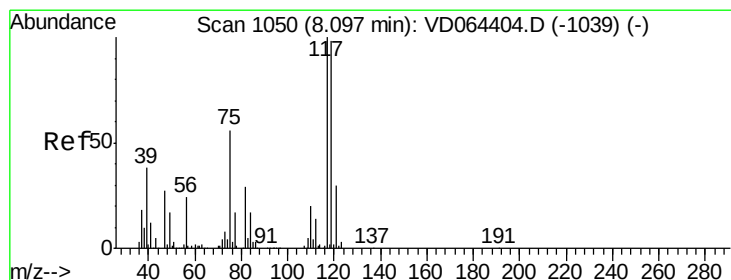
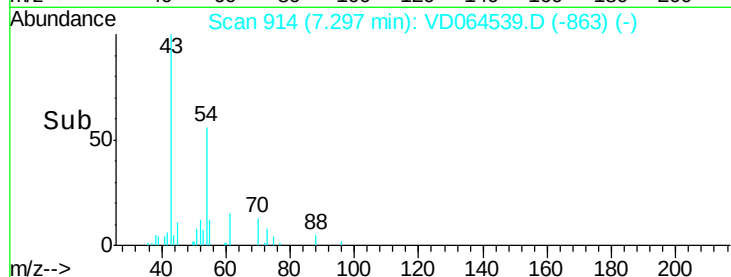
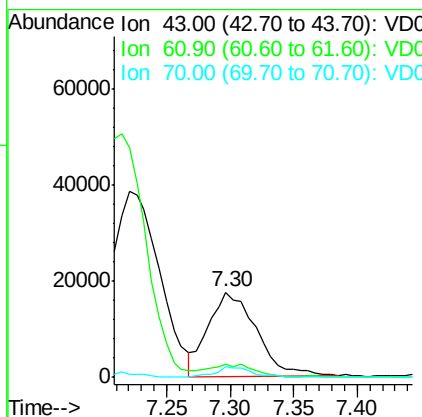
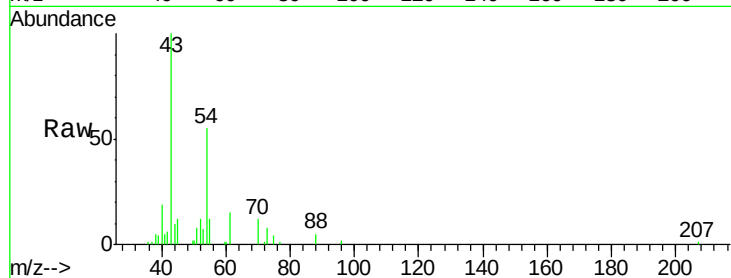
#37
Ethyl Acetate
Concen: 18.774 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.9	16.3
70	9.8	8.3	12.5

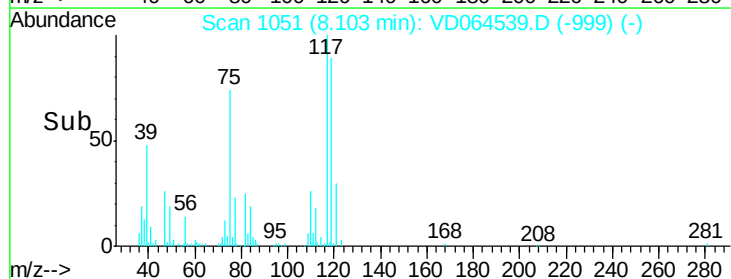
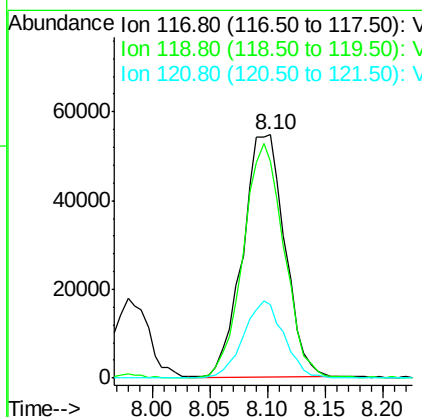
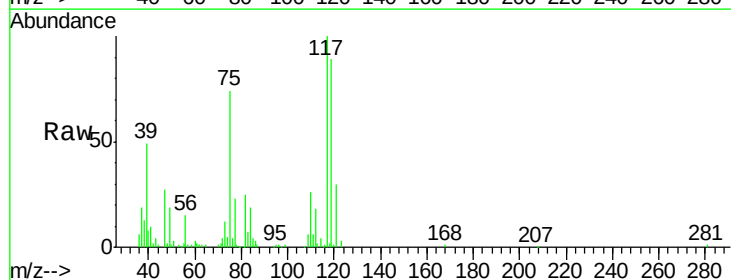
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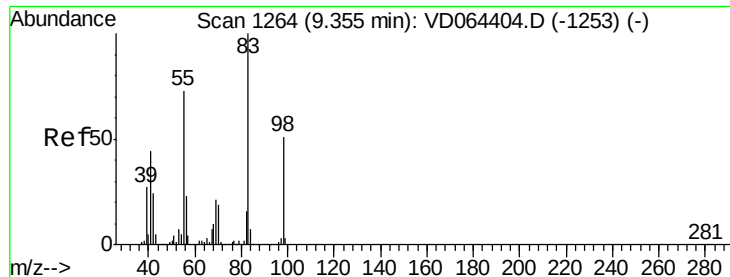
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#38
Carbon Tetrachloride
Concen: 22.894 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.0	78.8	118.2
121	30.2	24.2	36.2





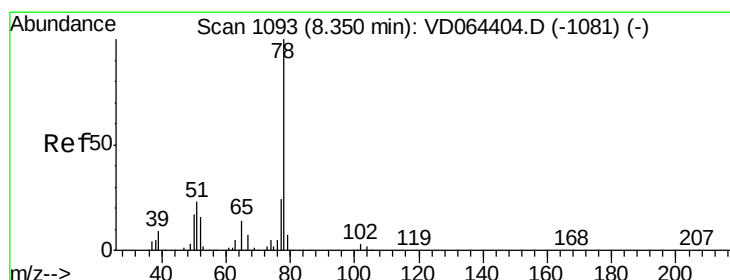
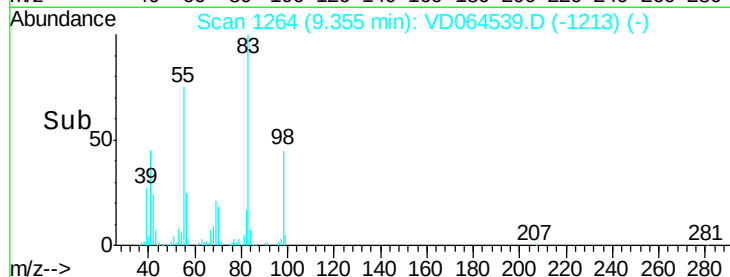
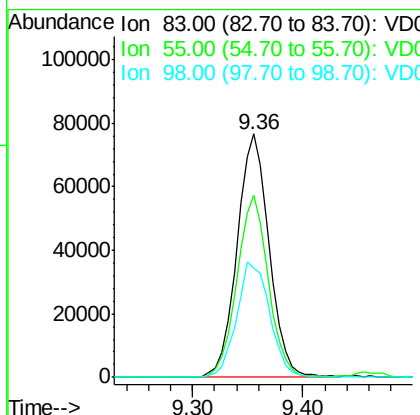
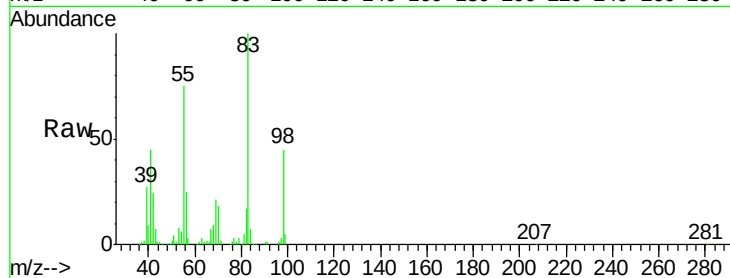
#39
Methylvlcyclohexane
Concen: 21.913 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.9	58.6	87.8
98	44.8	40.9	61.3

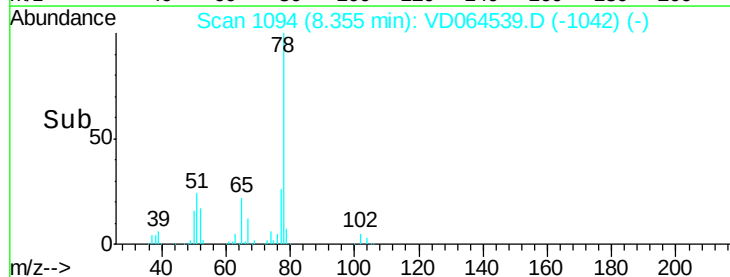
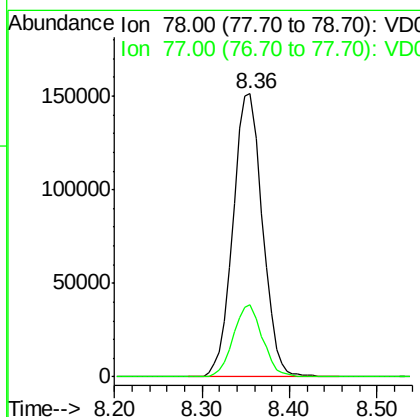
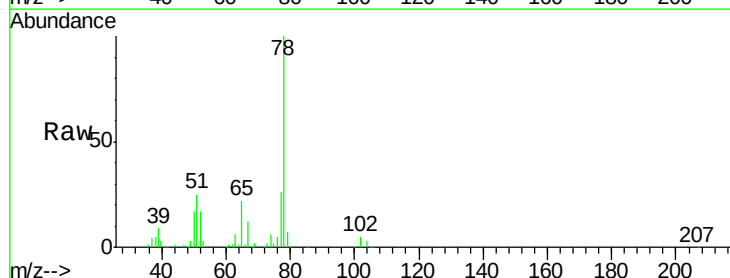
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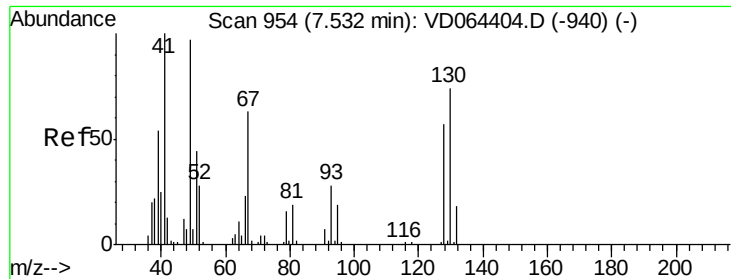
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#40
Benzene
Concen: 21.626 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.6	29.4





#41

Methacrylonitrile

Concen: 16.063 ug/l

RT: 7.53 min Scan# 954

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBS01

Tot Ion: 41 Resp: 22463

Ion Ratio Lower Upper

41 100

39 68.9 44.6 67.0#

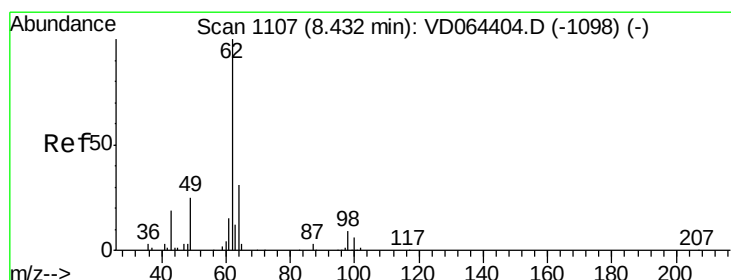
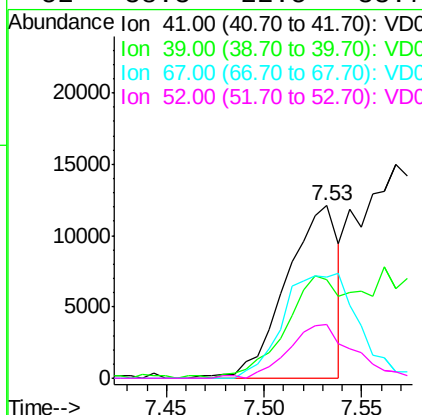
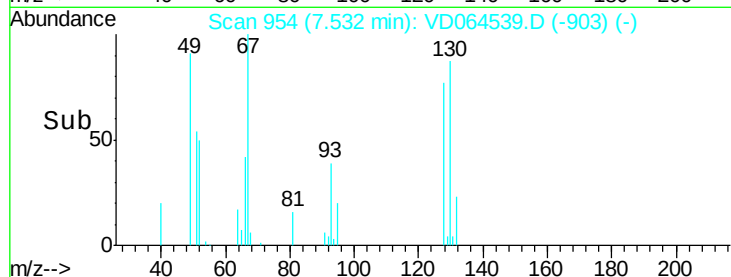
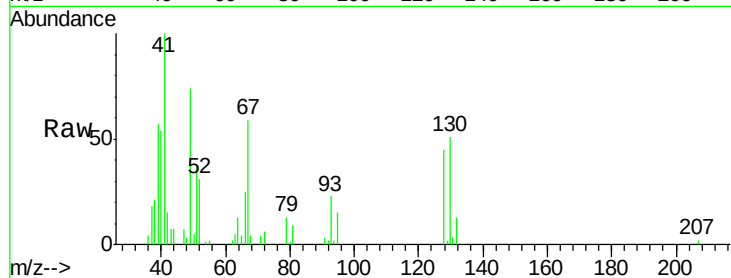
67 86.8 50.9 76.3#

52 38.3 22.5 33.7#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 21.279 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD064539.D

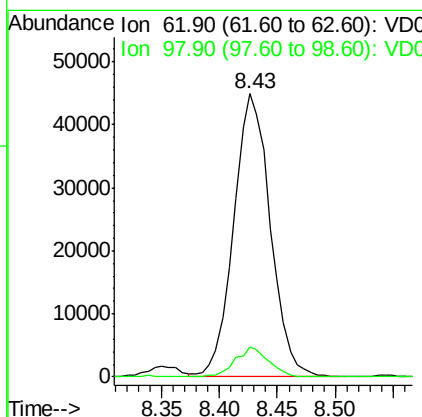
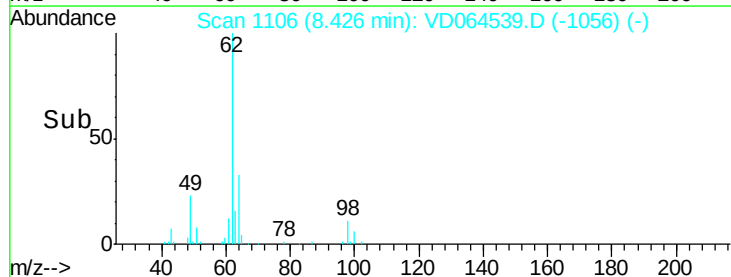
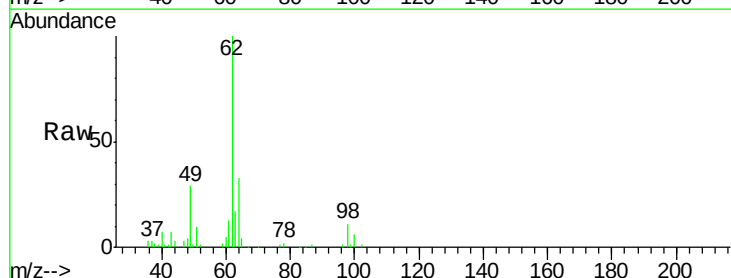
Acq: 17 Dec 2019 12:17

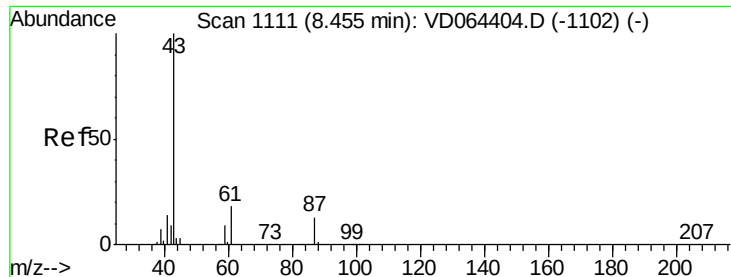
Tgt Ion: 62 Resp: 99047

Ion Ratio Lower Upper

62 100

98 9.6 0.0 20.6





#43

Isopropyl Acetate

Concen: 19.675 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

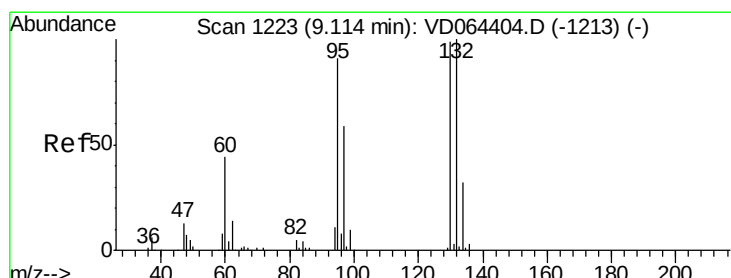
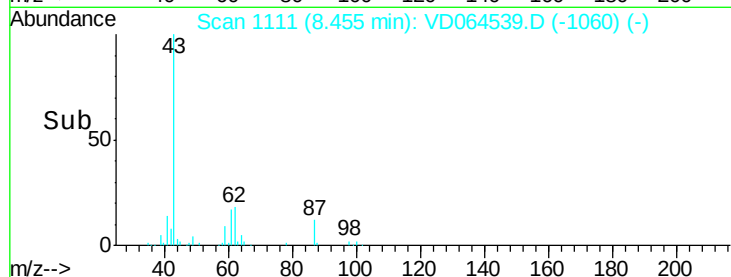
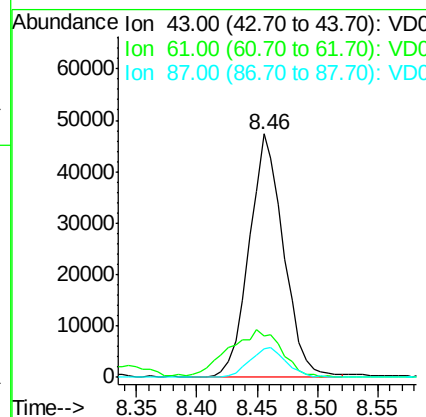
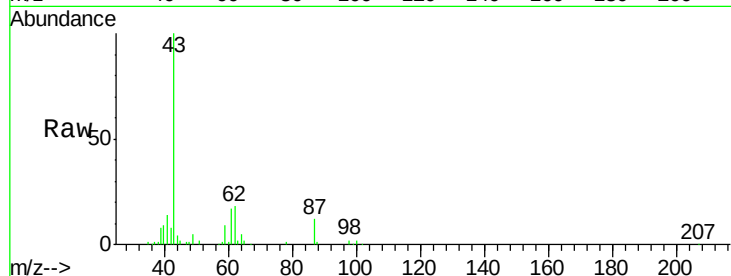
ClientSampleId :

VD1217SBS01

Tot Ion:	43	Resp:	94331
Ion	Ratio	Lower	Upper
43	100		
61	30.2	24.0	36.0
87	12.9	10.6	15.8

Manual Integrations
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#44

Trichloroethene

Concen: 21.956 ug/l

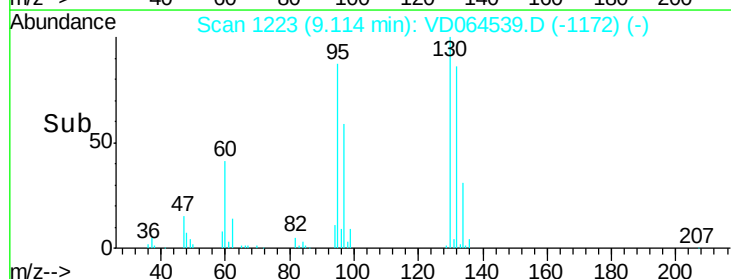
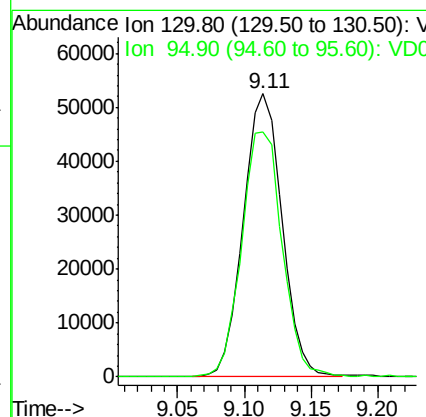
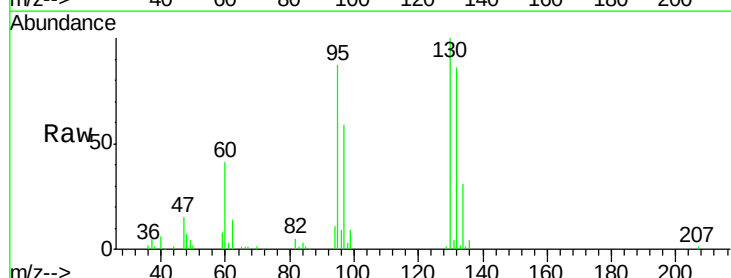
RT: 9.11 min Scan# 1223

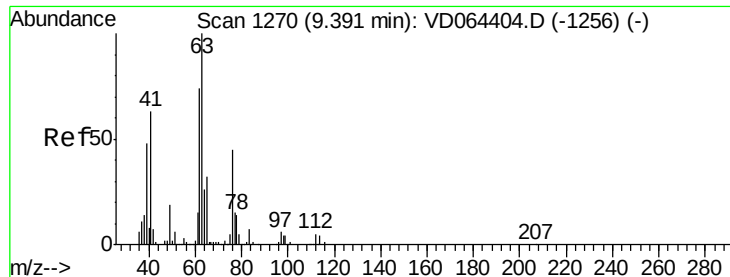
Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Tgt Ion:	130	Resp:	105562
Ion	Ratio	Lower	Upper
130	100		
95	86.6	0.0	184.6





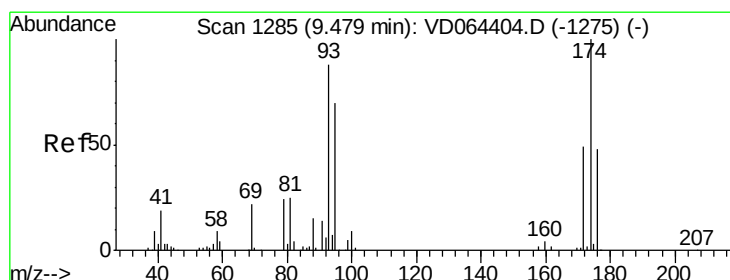
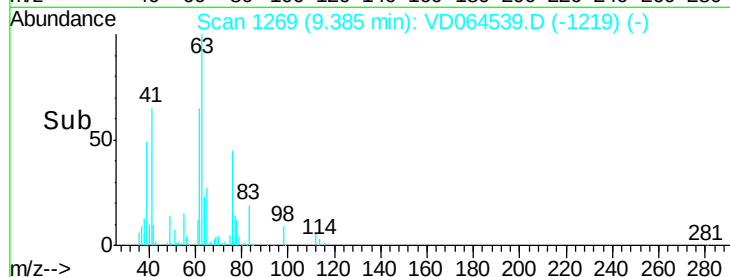
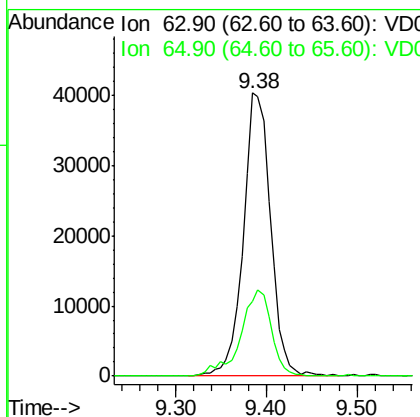
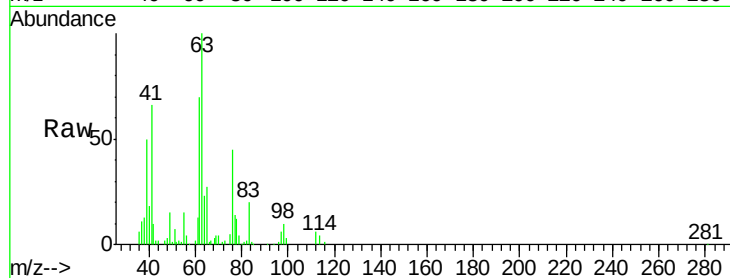
#45
 1,2-Dichloropropane
 Concen: 22.021 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBSD01

Tot Ion: 63 Resp: 84057
 Ion Ratio Lower Upper
 63 100
 65 26.6 25.4 38.0

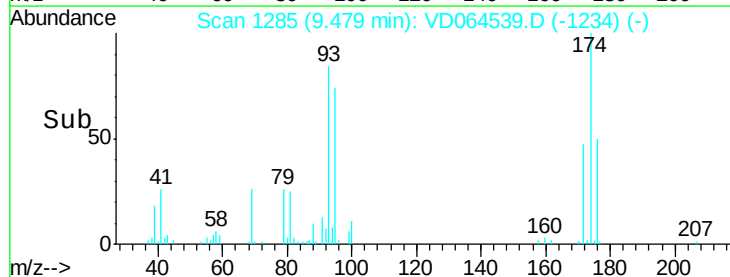
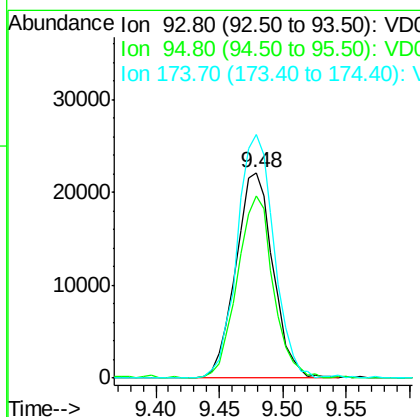
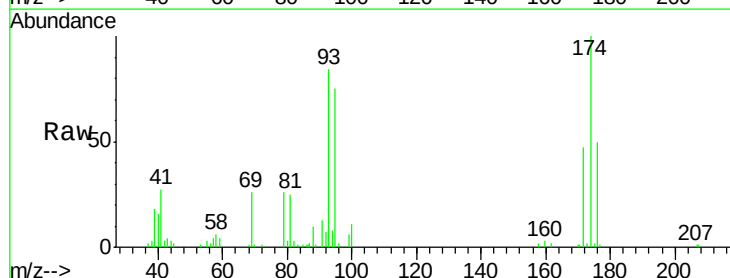
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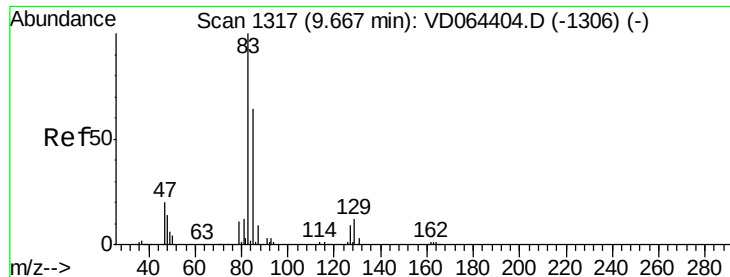
MMDadoda
 12/18/2019 1:00:48 PM



#46
 Dibromomethane
 Concen: 20.981 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion: 93 Resp: 45201
 Ion Ratio Lower Upper
 93 100
 95 85.1 66.7 100.1
 174 117.2 92.3 138.5





#47

Bromodichloromethane

Concen: 22.184 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

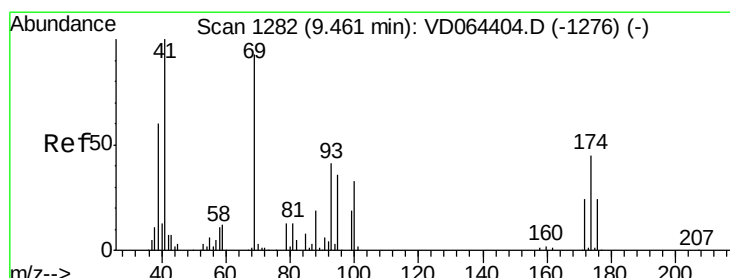
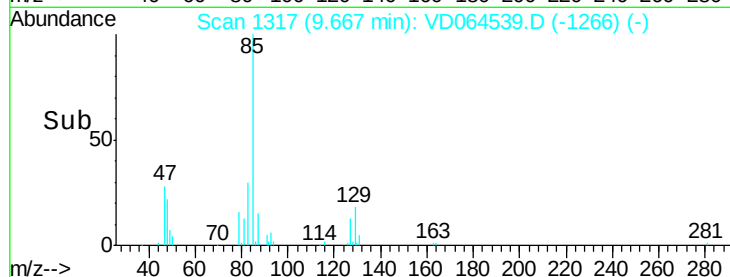
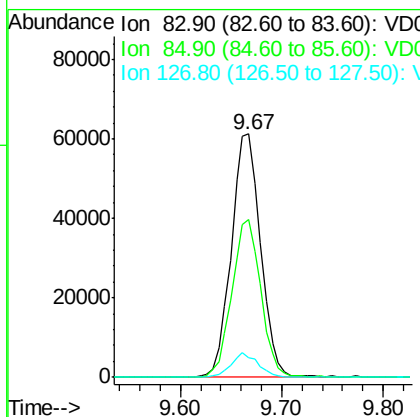
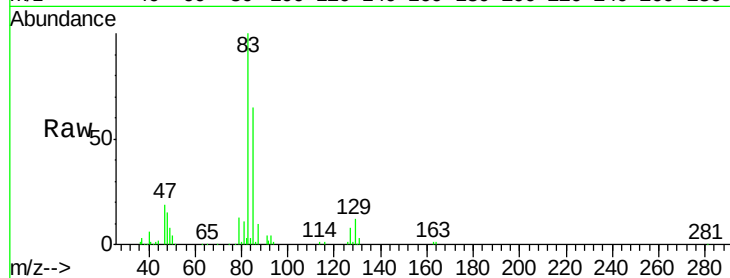
ClientSampleId :

VD1217SBS01

Tot Ion:	83	Resp:	122805
Ion Ratio	Lower	Upper	
83	100		
85	65.1	51.1	76.7
127	8.3	7.4	11.0

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12/18/2019 1:00:48 PM



#48

Methyl methacrylate

Concen: 19.567 ug/l

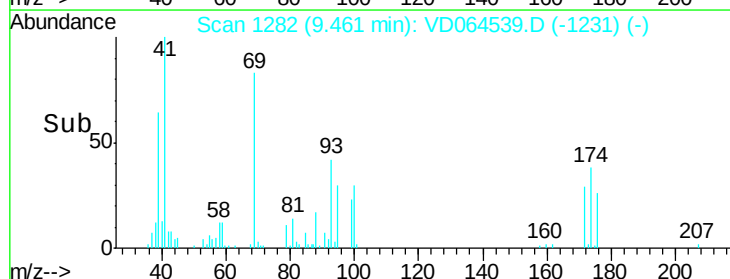
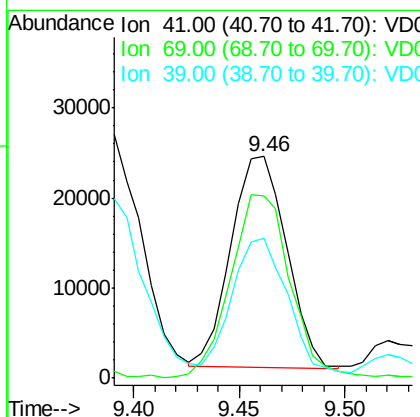
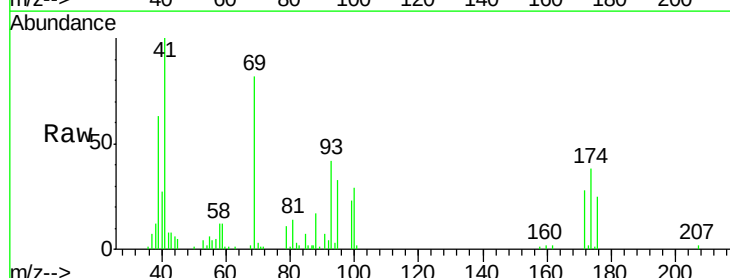
RT: 9.46 min Scan# 1282

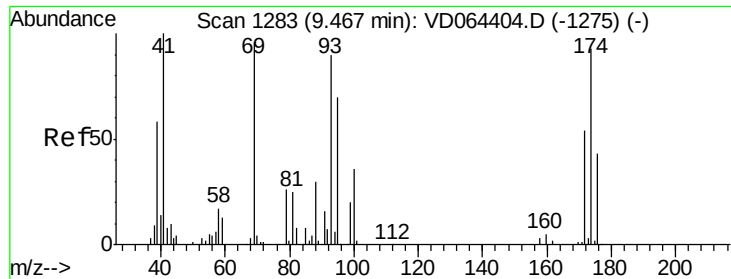
Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Tgt Ion:	41	Resp:	42928
Ion Ratio	Lower	Upper	
41	100		
69	93.6	72.0	108.0
39	61.7	55.2	82.8





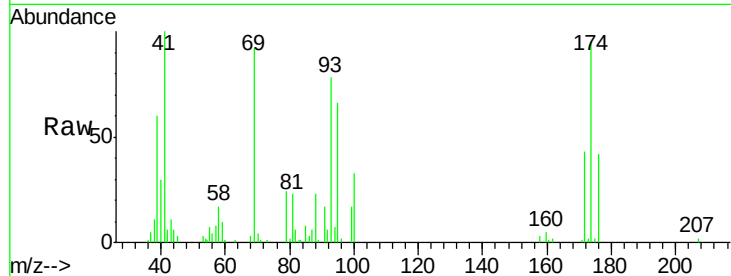
#49
1,4-Dioxane
Concen: 359.762 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

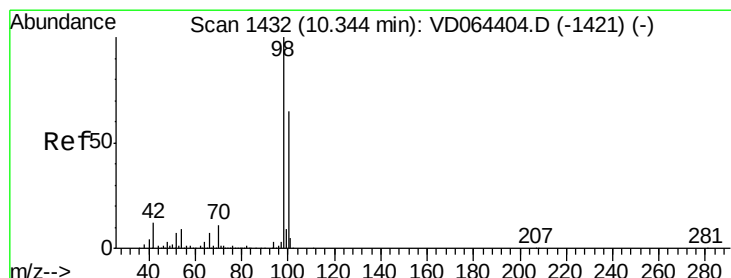
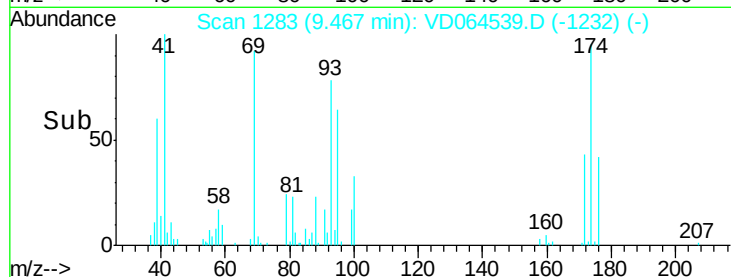
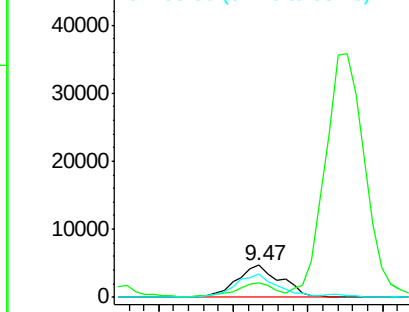
Tot Ion	88	Resp	9571
Ion Ratio	100	Lower	Upper
88	100		
43	40.9	26.7	40.1#
58	71.0	52.3	78.5

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12/18/2019 1:00:48 PM

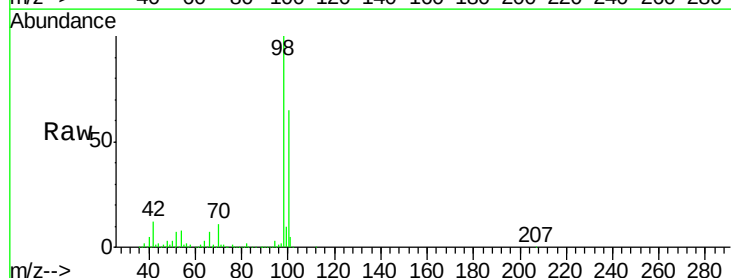


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

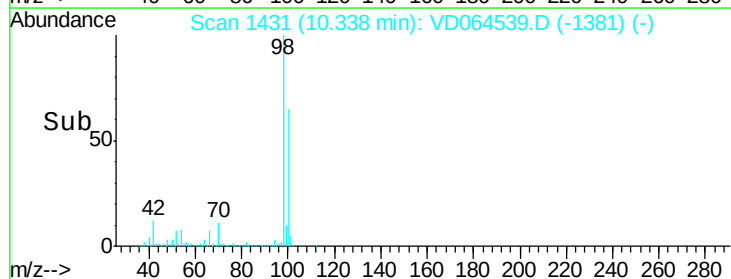
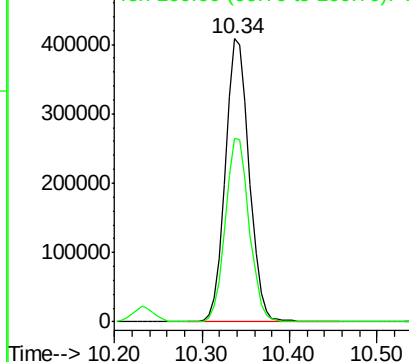


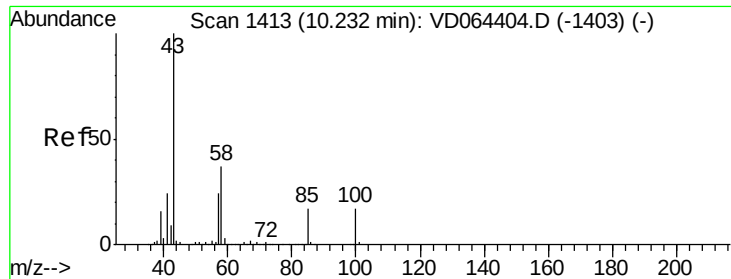
#50
Toluene-d8
Concen: 52.874 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	98	Resp	762405
Ion Ratio	100	Lower	Upper
98	100		
100	64.9	52.6	79.0



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





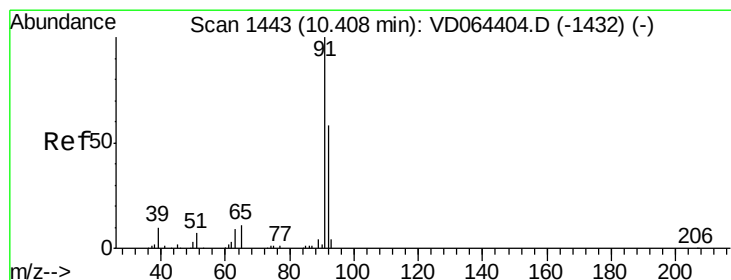
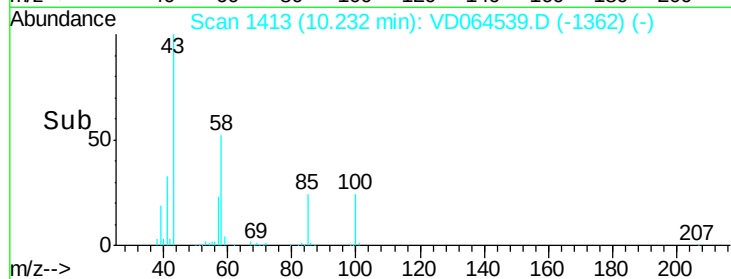
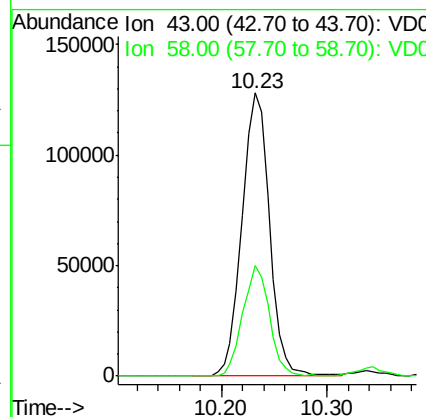
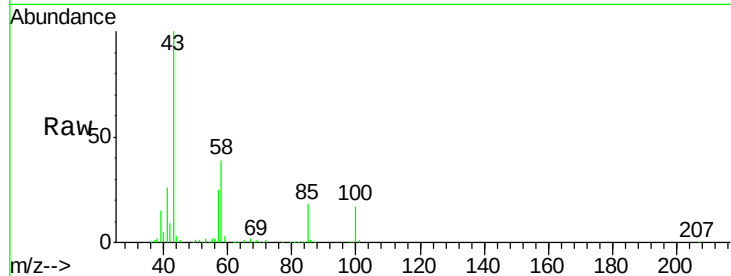
#51
4-Methyl-2-Pentanone
Concen: 97.478 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.6	46.0

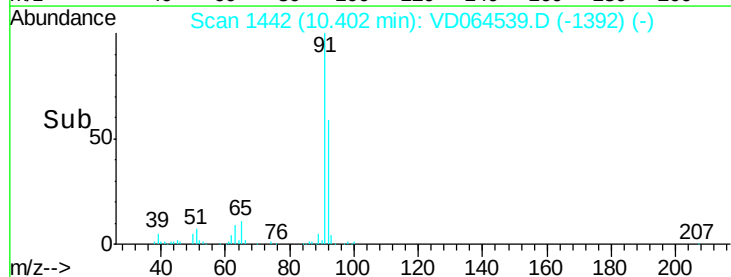
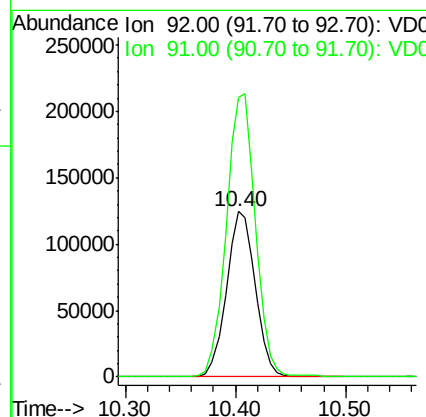
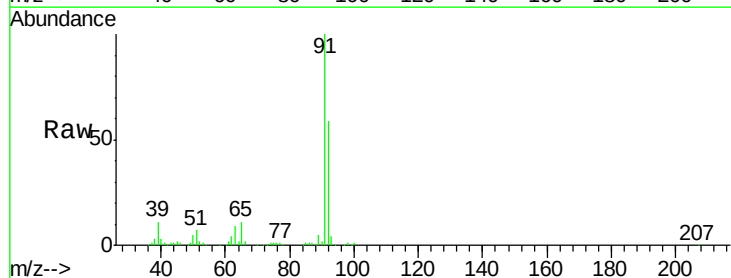
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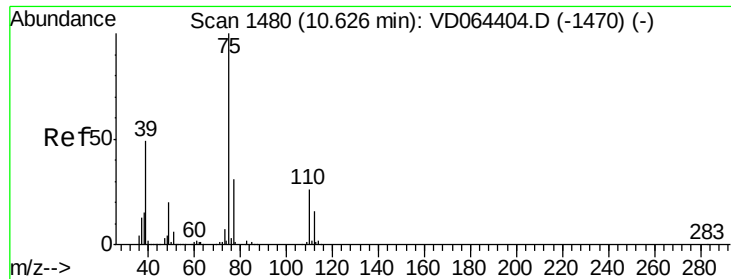
MMDadoda
12/18/2019 1:00:48 PM



#52
Toluene
Concen: 21.787 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.8	206.6





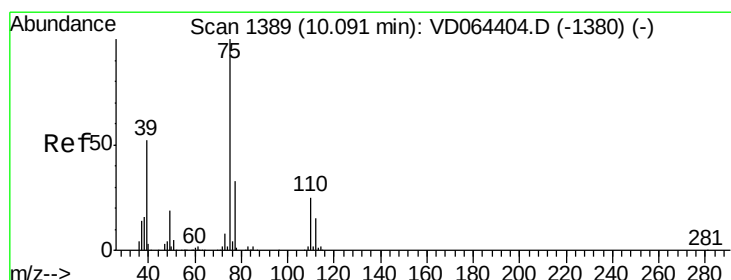
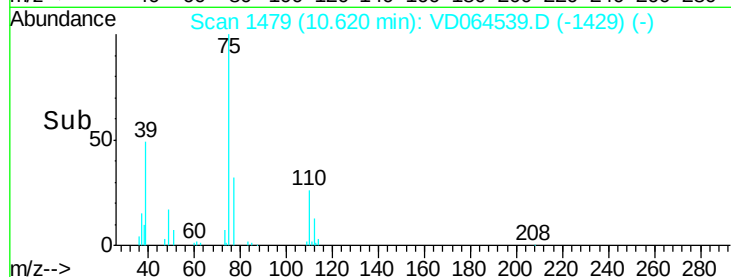
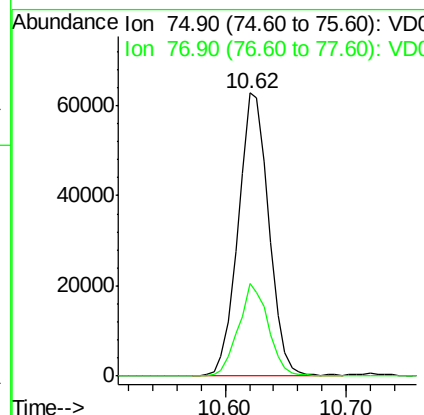
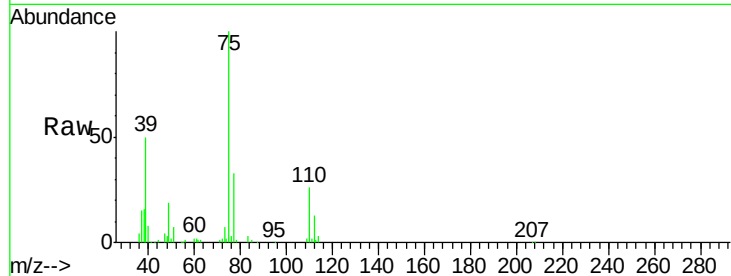
#53
t-1,3-Dichloropropene
Concen: 21.110 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	75	Resp	111370
Ion Ratio	Lower	Upper	
75	100		
77	32.7	25.0	37.4

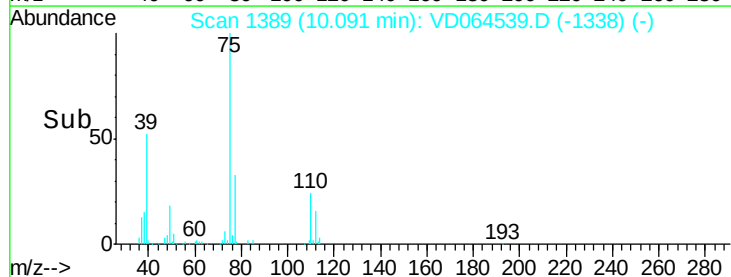
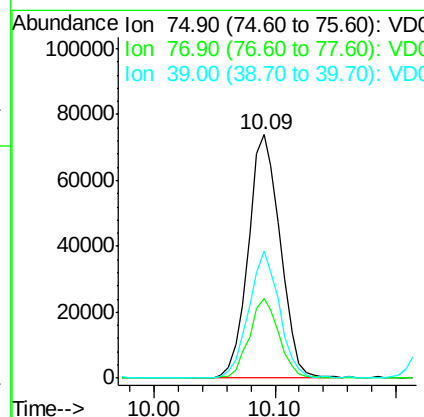
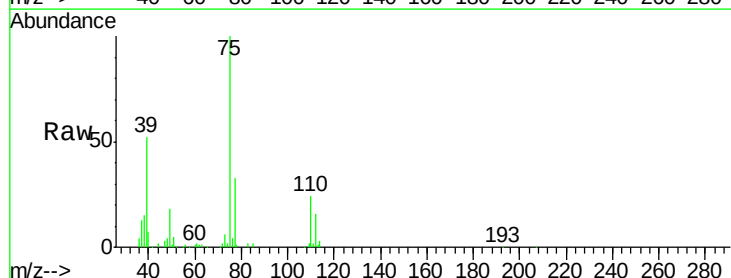
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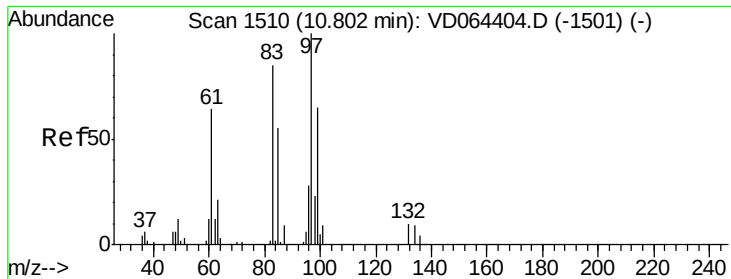
MMDadoda
12/18/2019 1:00:48 PM



#54
cis-1,3-Dichloropropene
Concen: 21.756 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	75	Resp	136354
Ion Ratio	Lower	Upper	
75	100		
77	32.6	26.1	39.1
39	52.0	41.5	62.3





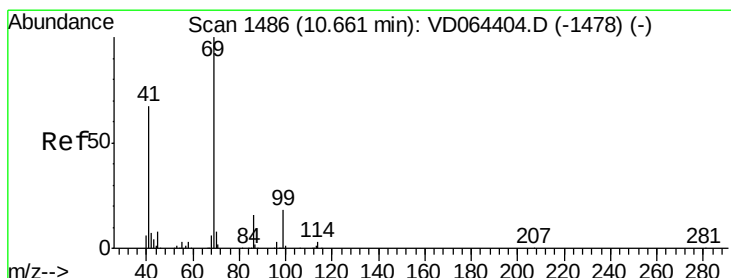
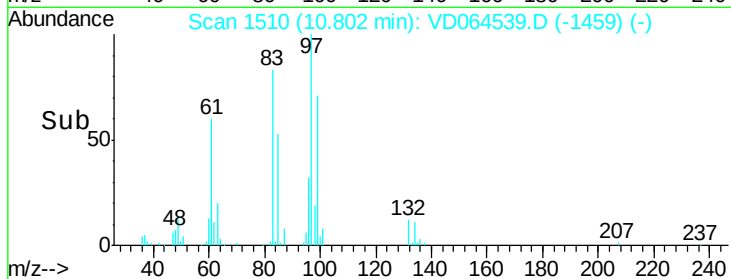
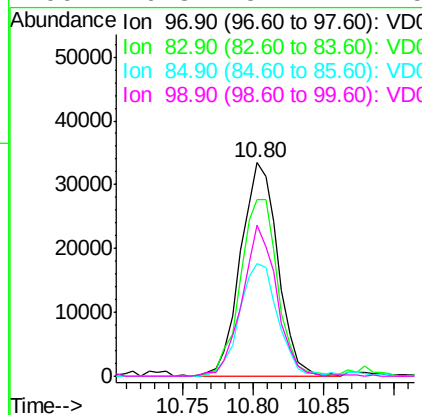
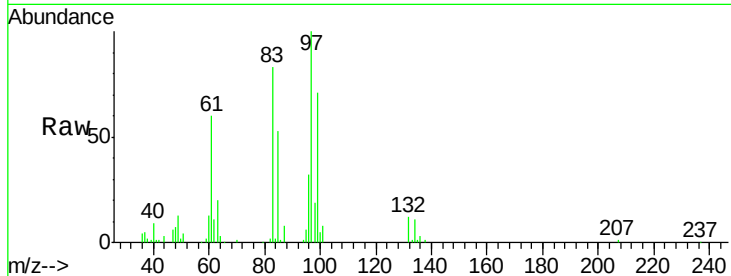
#55
 1,1,2-Trichloroethane
 Concen: 20.953 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBS01

Tot Ion:	97	Resp:	61810
Ion	Ratio	Lower	Upper
97	100		
83	82.9	67.8	101.8
85	52.6	43.7	65.5
99	70.8	51.7	77.5

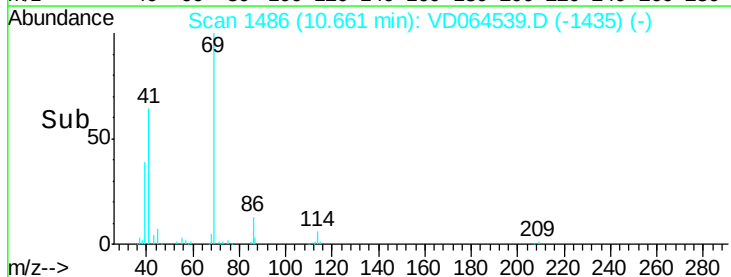
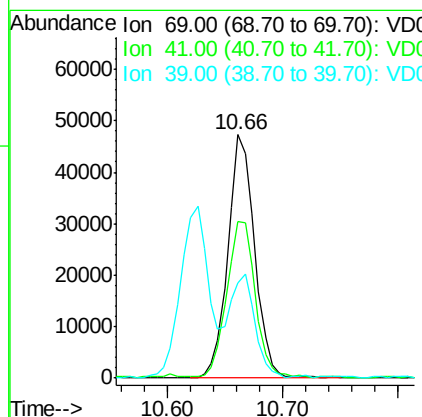
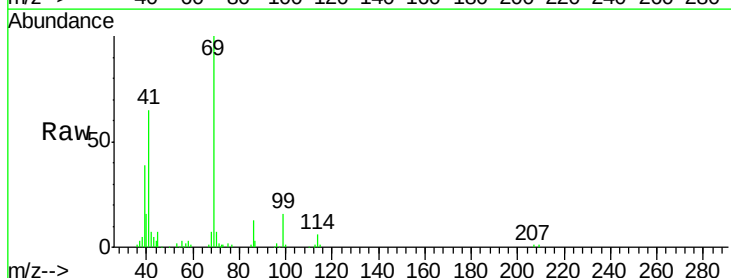
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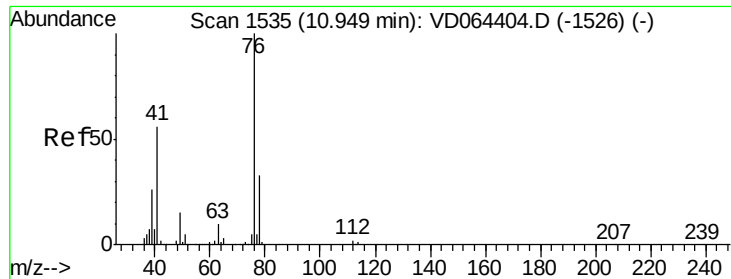
MMDadoda
 12/18/2019 1:00:48 PM



#56
 Ethyl methacrylate
 Concen: 20.167 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion:	69	Resp:	75880
Ion	Ratio	Lower	Upper
69	100		
41	69.3	55.0	82.4
39	41.8	33.0	49.6





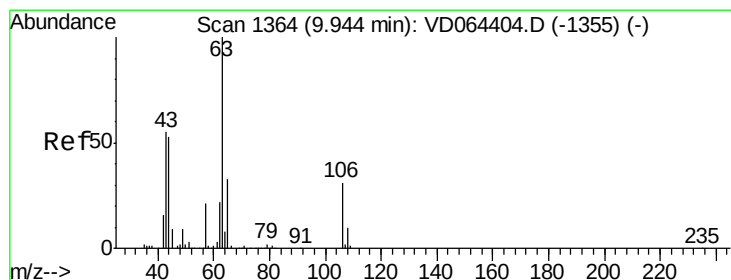
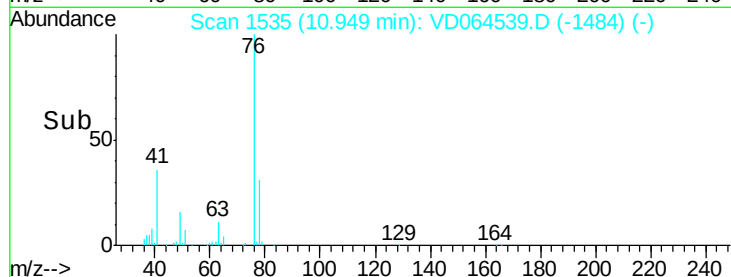
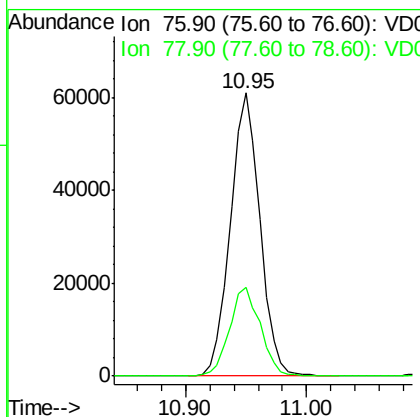
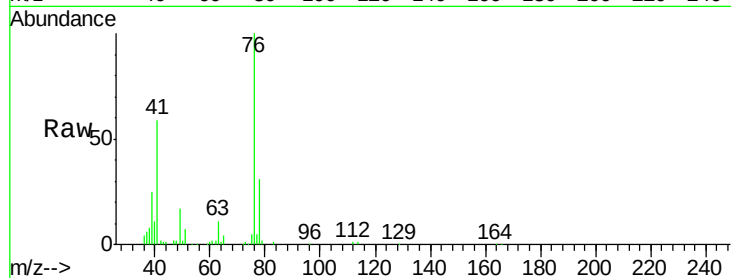
#57
 1,3-Dichloropropane
 Concen: 20.732 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBSD01

Tot Ion: 76 Resp: 104112
 Ion Ratio Lower Upper
 76 100
 78 32.7 26.0 39.0

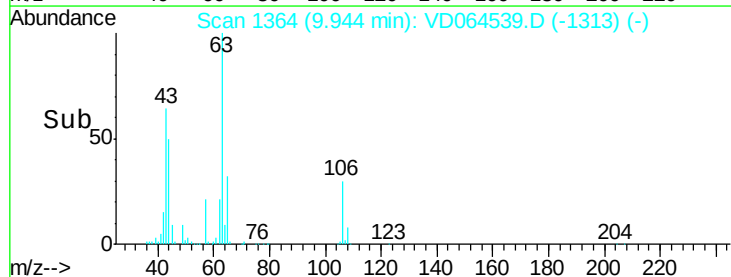
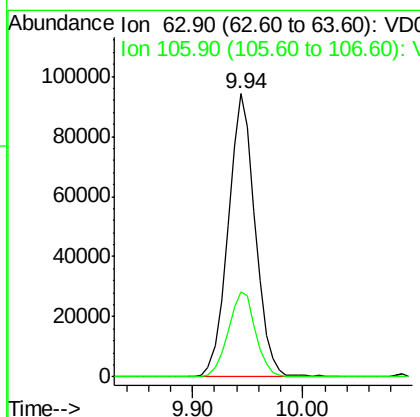
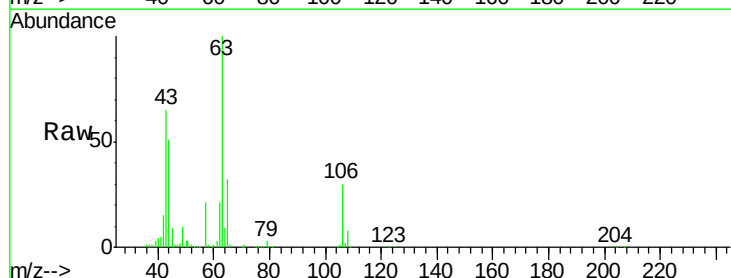
Manual Integrations
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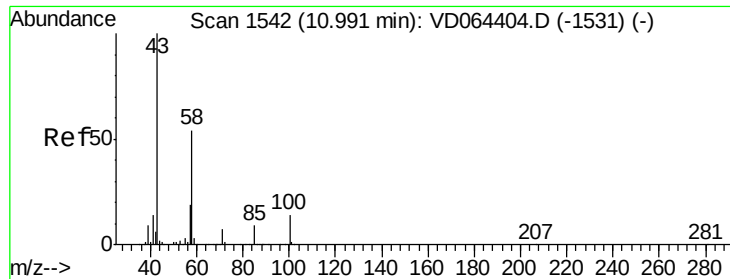
MMDadoda
 12/18/2019 1:00:48 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 107.646 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion: 63 Resp: 161457
 Ion Ratio Lower Upper
 63 100
 106 30.7 24.2 36.4





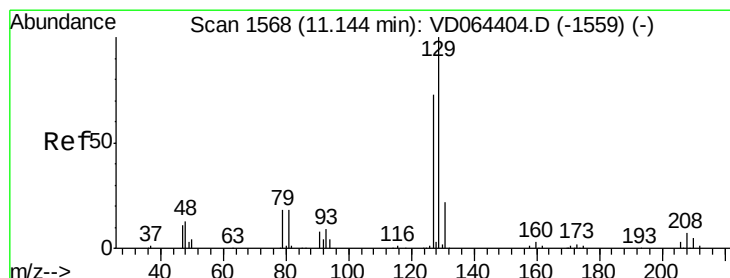
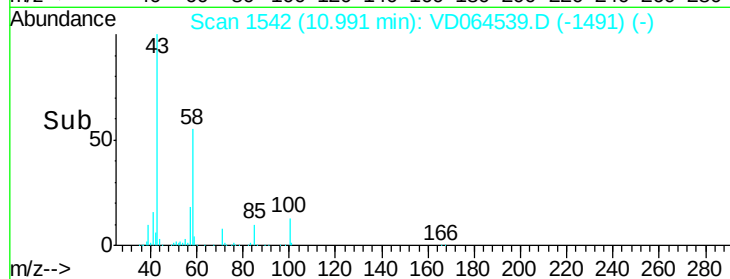
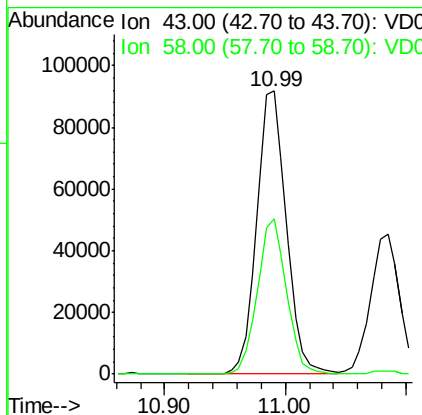
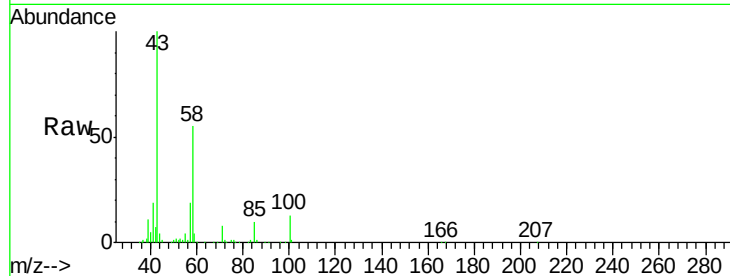
#59
2-Hexanone
Concen: 95.217 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion: 43 Resp: 156733
Ion Ratio Lower Upper
43 100
58 53.9 26.3 78.8

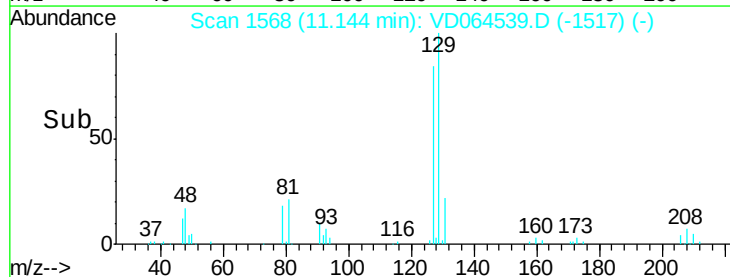
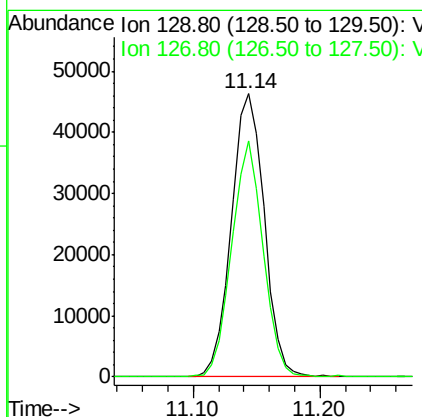
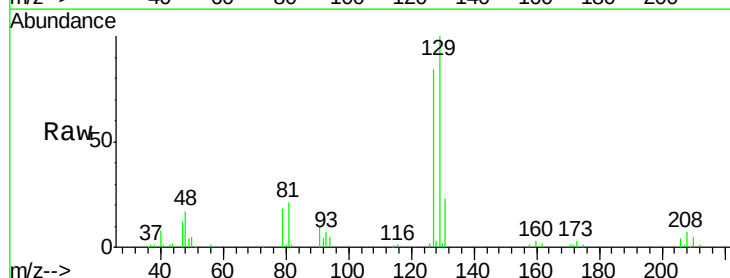
Manual Integrations
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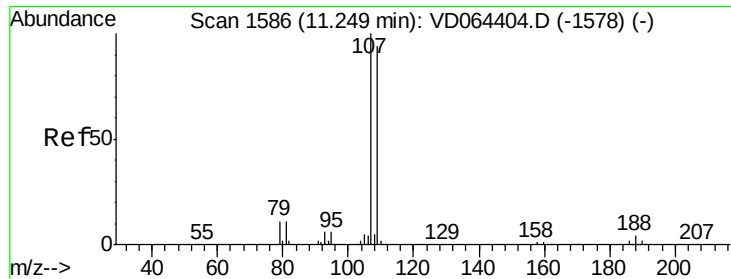
MMDadoda
12/18/2019 1:00:48 PM



#60
Dibromochloromethane
Concen: 20.747 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion: 129 Resp: 82982
Ion Ratio Lower Upper
129 100
127 79.5 38.1 114.3





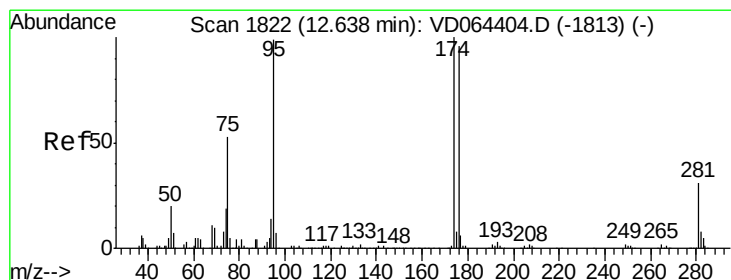
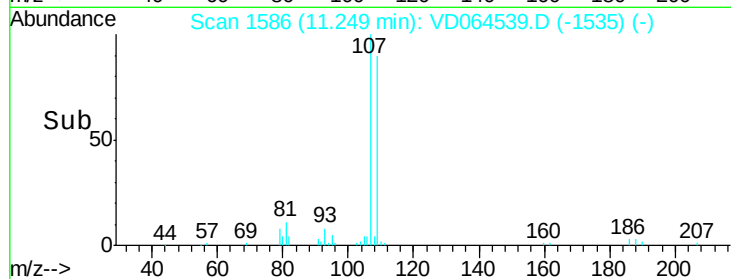
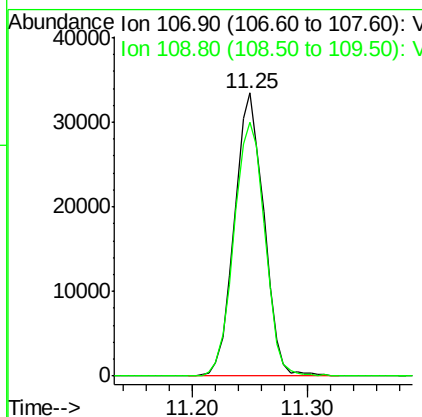
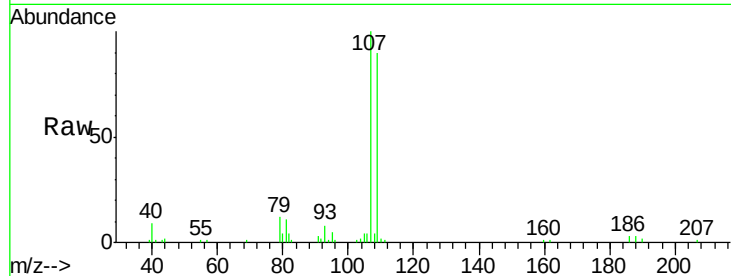
#61
1,2-Dibromoethane
Concen: 20.140 ug/l
RT: 11.25 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	76.2	114.2

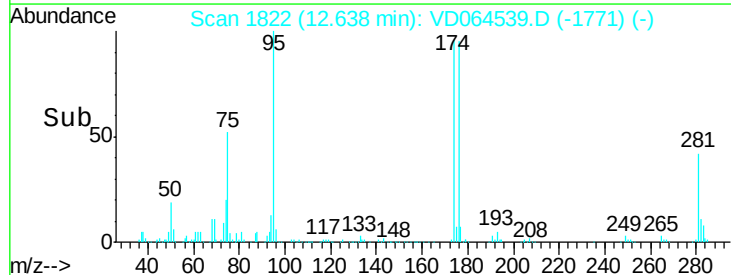
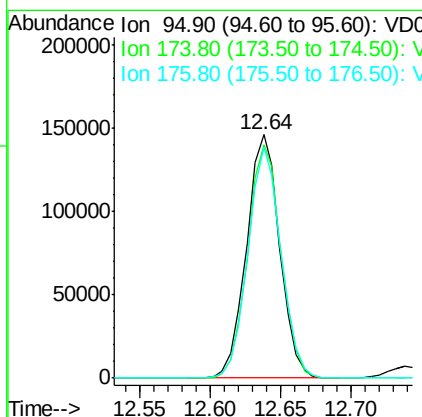
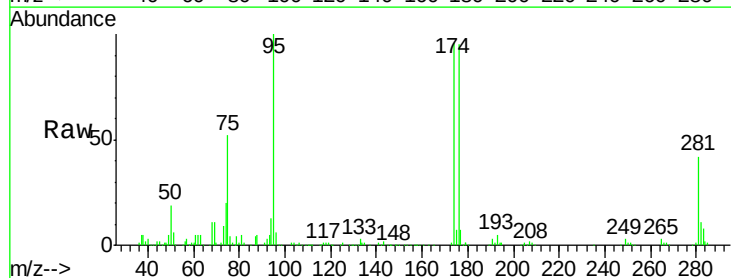
Manual Integrations
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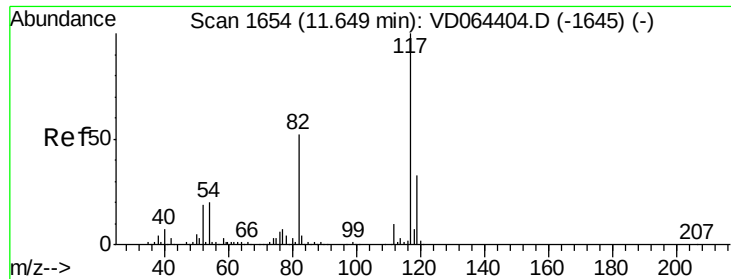
MMDadoda
12/18/2019 1:00:48 PM



#62
4-Bromofluorobenzene
Concen: 52.020 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.1	0.0	197.2
176	94.3	0.0	189.6





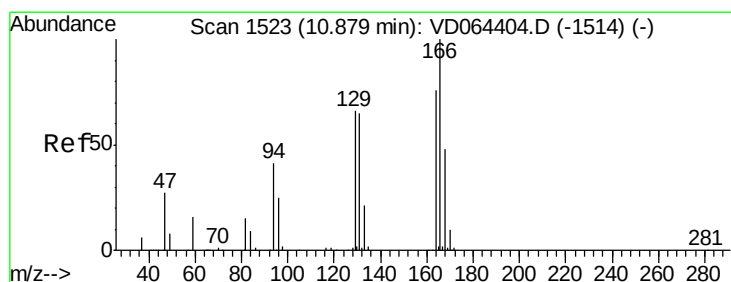
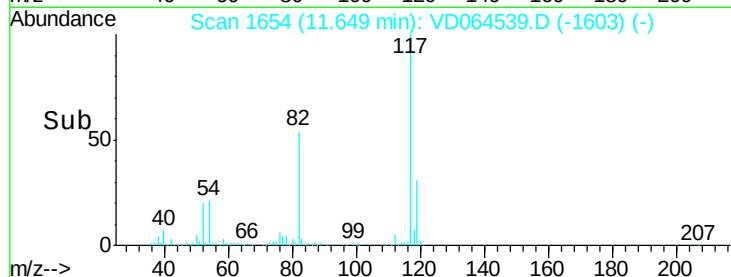
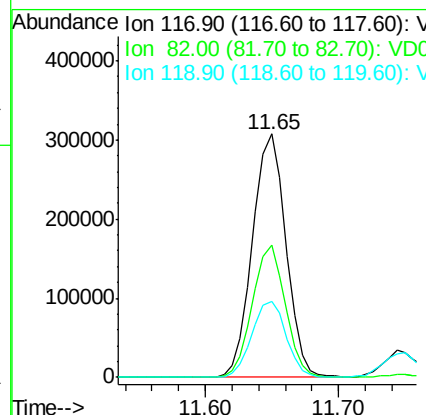
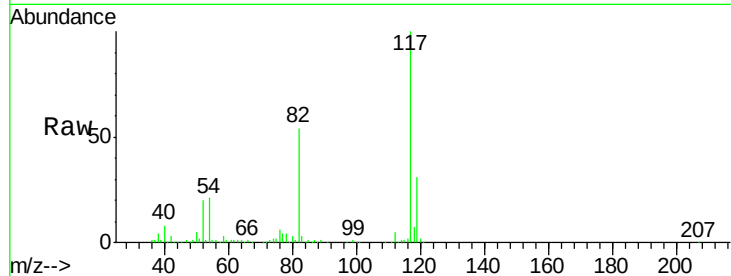
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	533088		
82	54.3		41.4	62.2
119	31.3		26.2	39.2

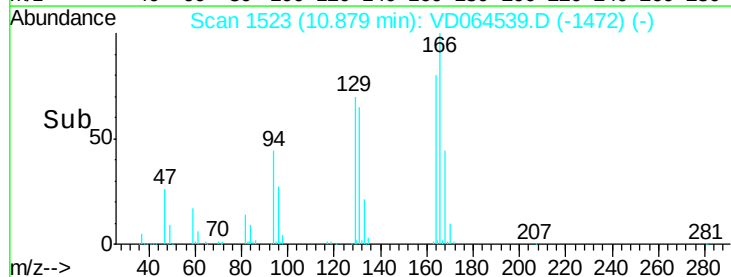
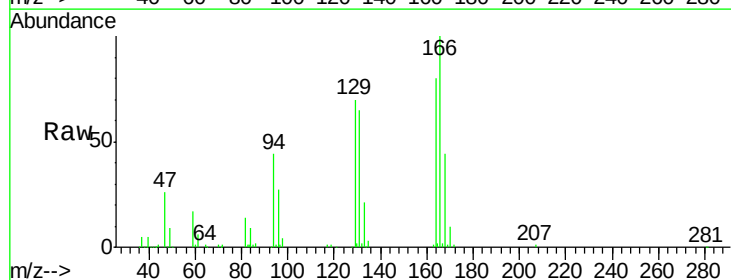
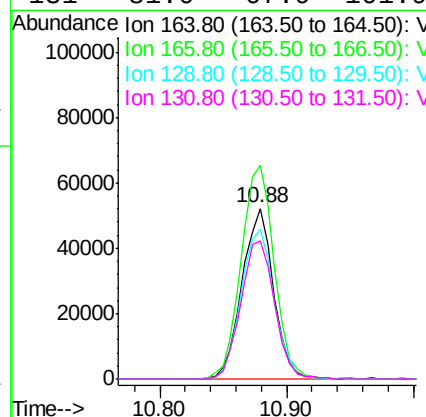
Manual Integrations
APPROVED

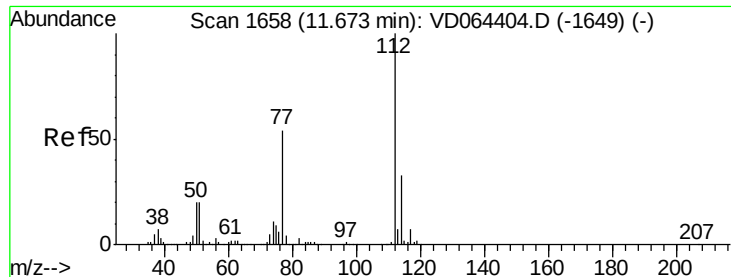
MMDadoda
12/18/2019 1:00:48 PM



#64
Tetrachloroethene
Concen: 21.987 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	89380		
166	125.1		104.8	157.2
129	87.6		68.7	103.1
131	81.0		67.9	101.9





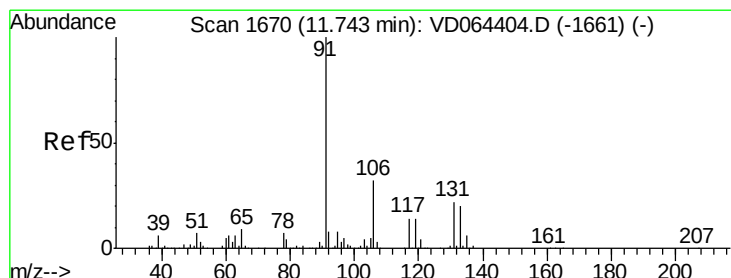
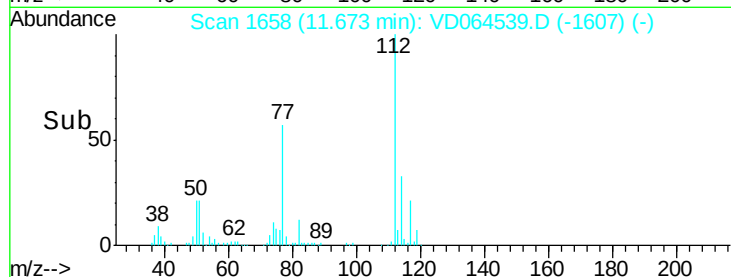
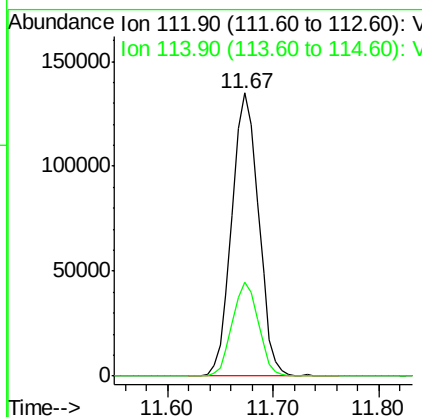
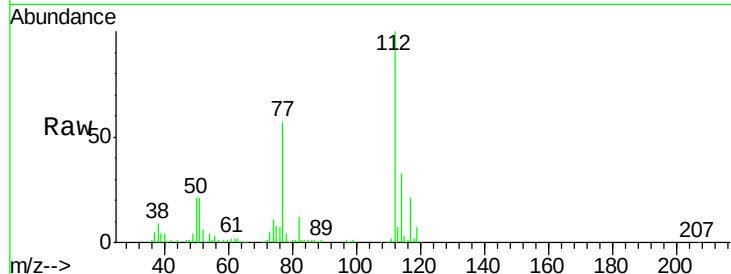
#65
Chlorobenzene
Concen: 21.327 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.2	26.5	39.7

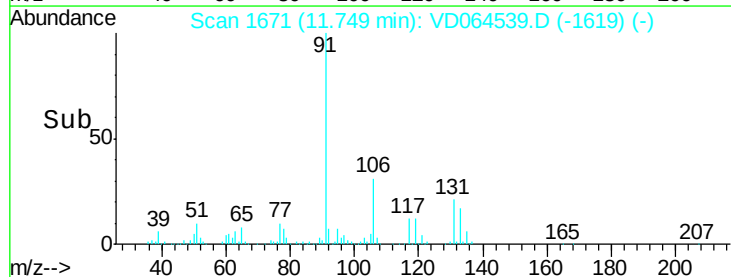
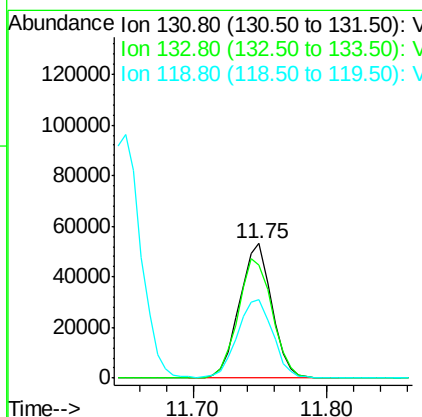
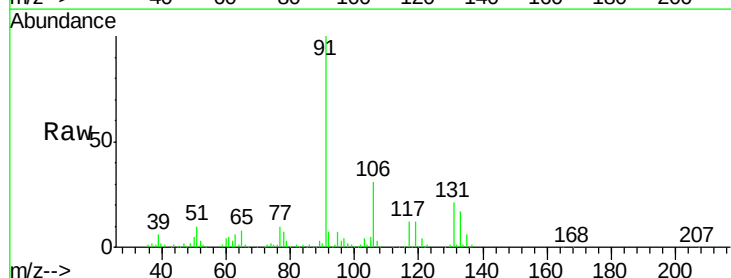
Manual Integrations
APPROVED

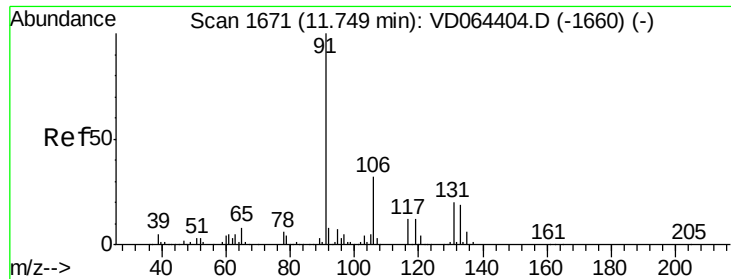
MMDadoda
12/18/2019 1:00:48 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.630 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.0	48.3	144.9
119	64.6	31.9	95.9





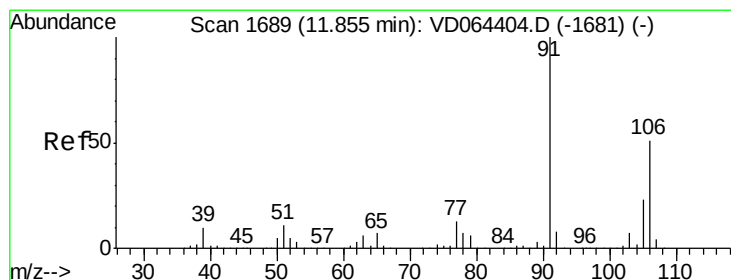
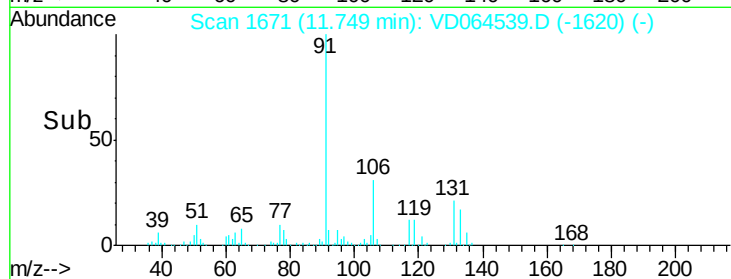
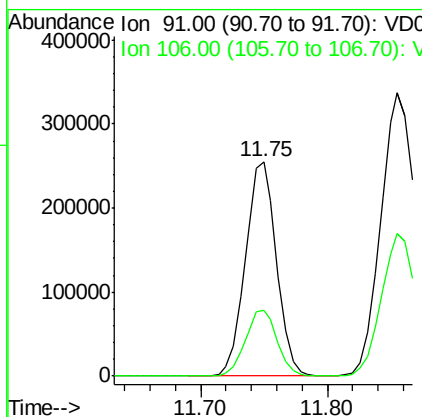
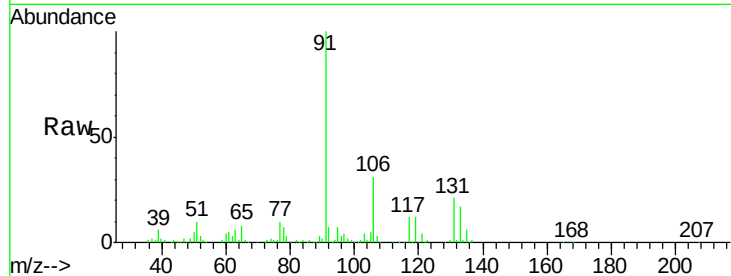
#67
Ethyl Benzene
Concen: 21.908 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

Tot Ion: 91 Resp: 433384
Ion Ratio Lower Upper
91 100
106 30.8 25.8 38.8

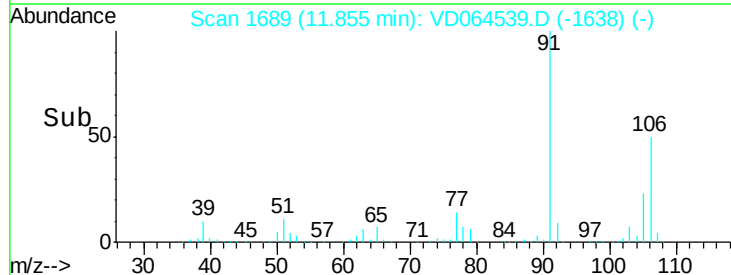
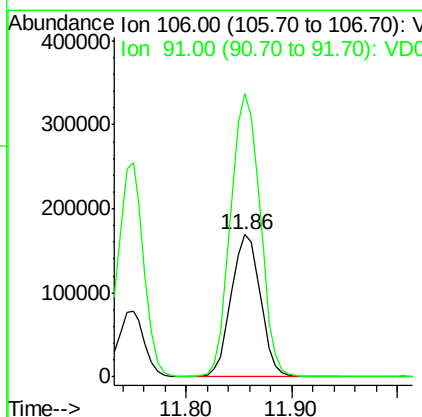
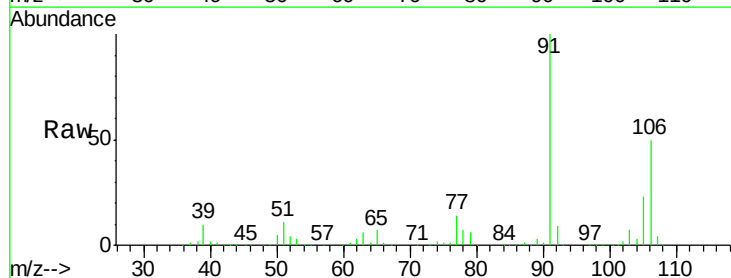
Manual Integrations
APPROVED

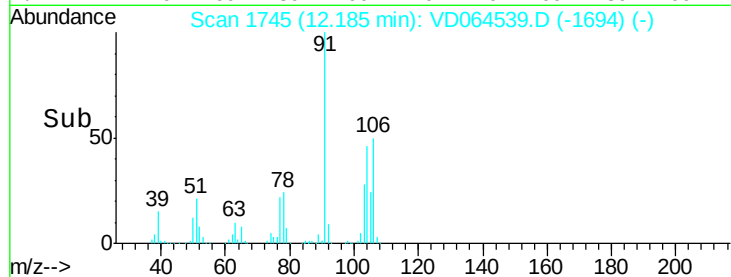
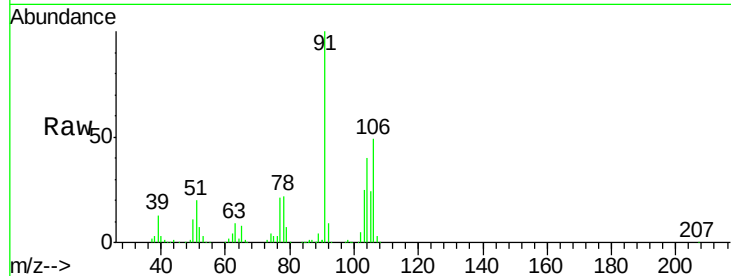
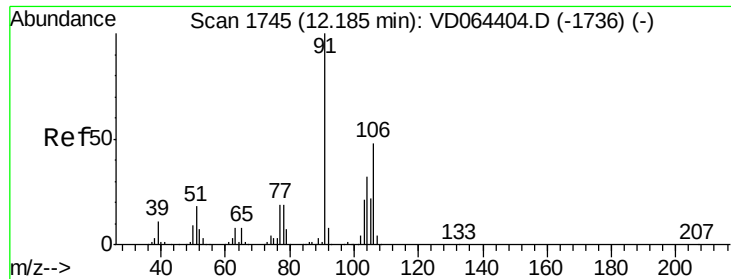
MMDadoda
12/18/2019 1:00:48 PM



#68
m/p-Xylenes
Concen: 43.059 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion: 106 Resp: 324786
Ion Ratio Lower Upper
106 100
91 200.6 157.4 236.2





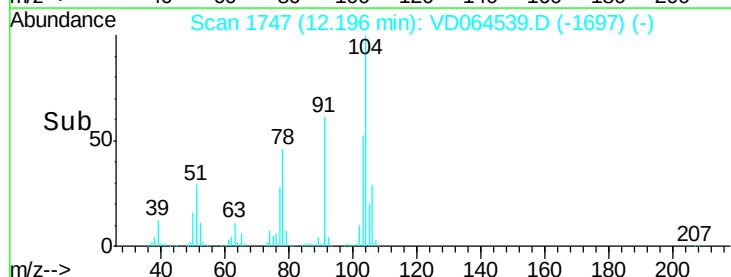
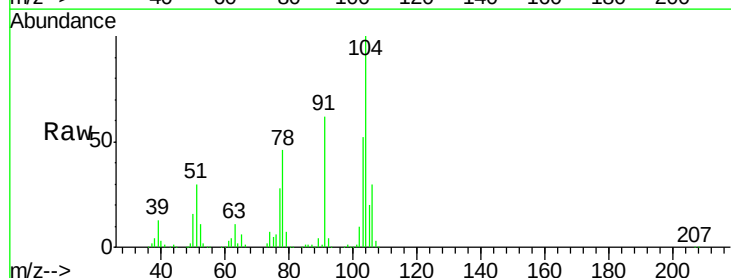
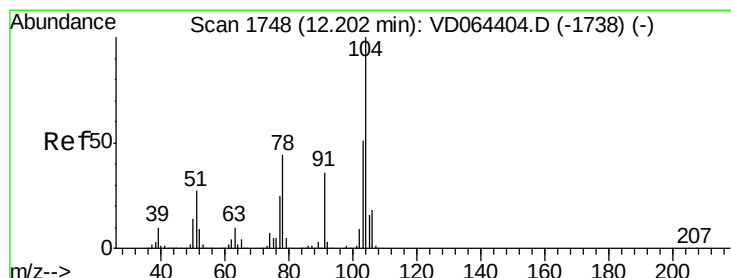
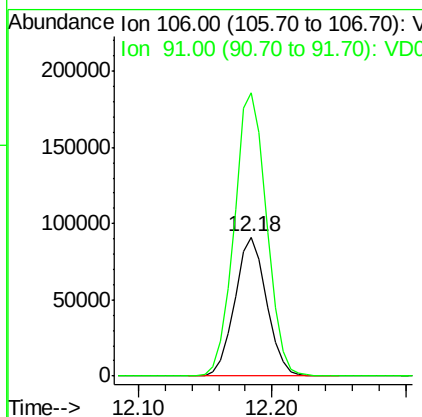
#69
o-Xylene
Concen: 21.566 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		150233		
91	208.0	103.8	311.4		

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBS01

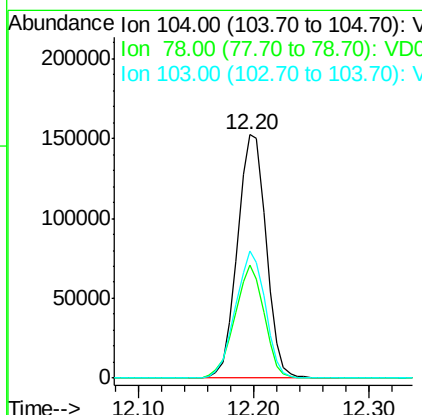
Manual Integrations
APPROVED

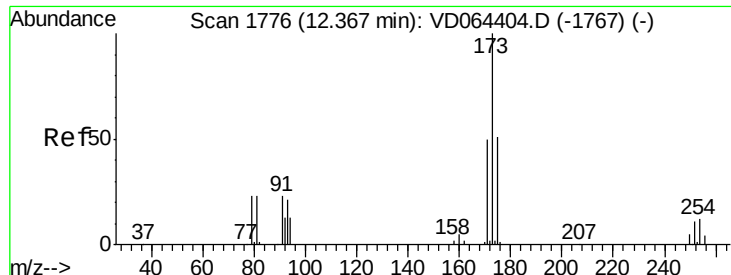
MMDadoda
12/18/2019 1:00:48 PM



#70
Styrene
Concen: 21.699 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		262683		
78	47.6	38.8	58.2		
103	54.3	44.2	66.4		





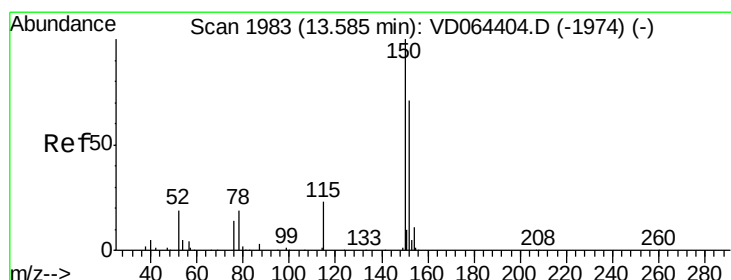
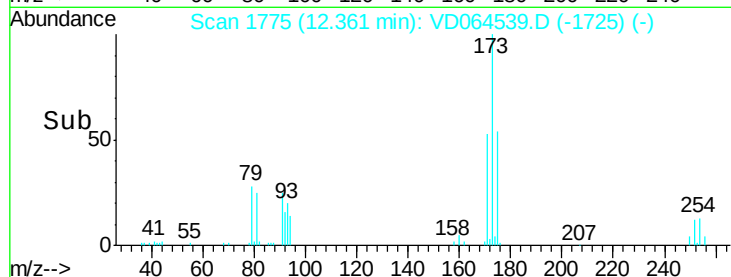
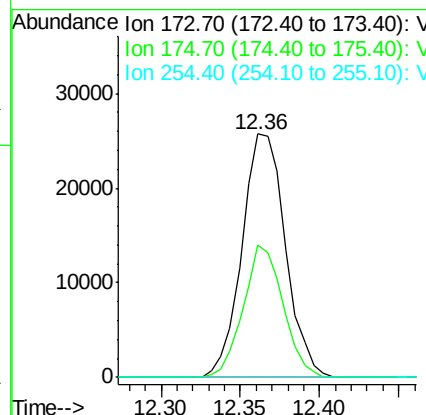
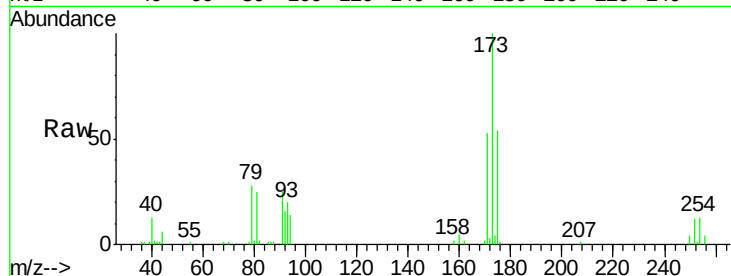
#71
Bromoform
Concen: 19.828 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.01 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.0	25.3	75.8
254	0.0	0.0	0.0

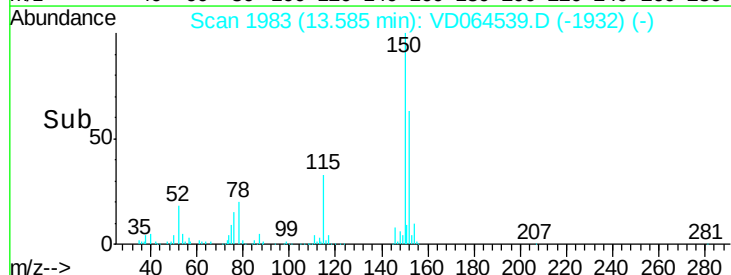
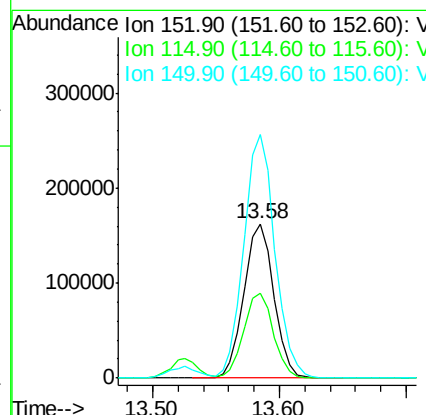
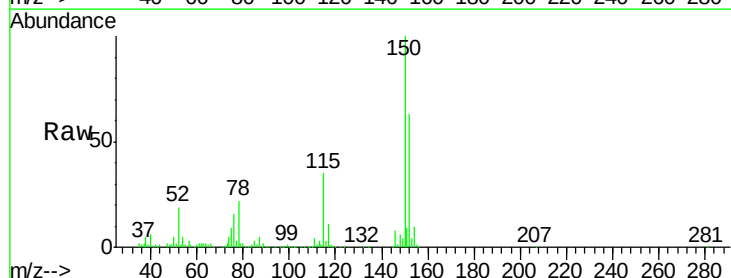
Manual Integrations
APPROVED

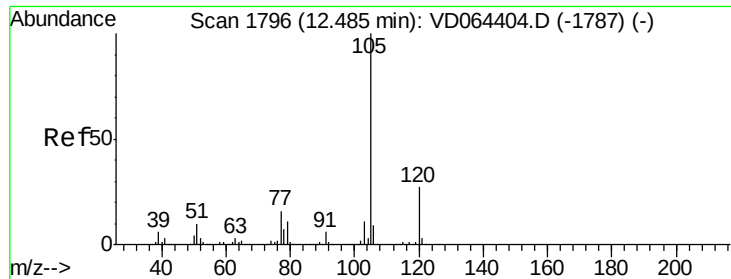
MMDadoda
12/18/2019 1:00:48 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	26.7	80.1
150	163.8	0.0	347.2





#73

Isopropylbenzene

Concen: 21.884 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBS01

Tot Ion:105 Resp: 418393

Ion Ratio Lower Upper

105 100

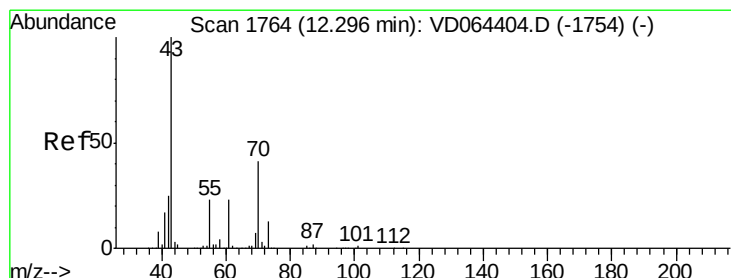
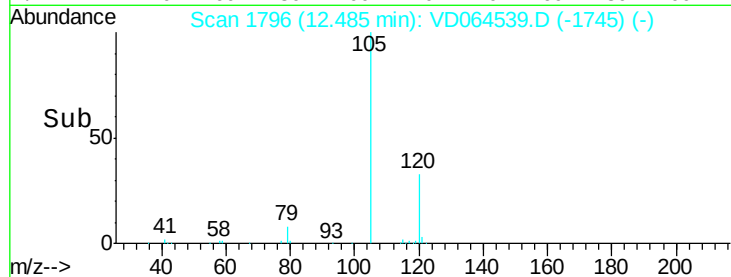
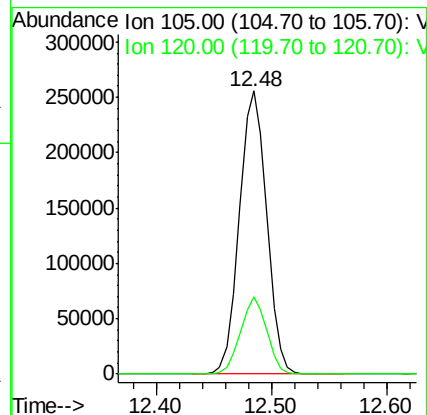
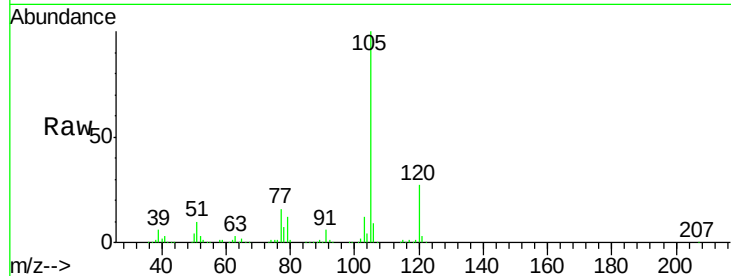
120 26.2 13.4 40.2

Manual Integrations

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12/18/2019 1:00:48 PM



#74

N-ethyl acetate

Concen: 19.218 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Tgt Ion: 43 Resp: 83392

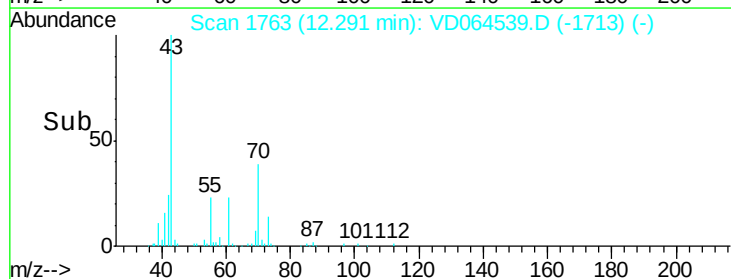
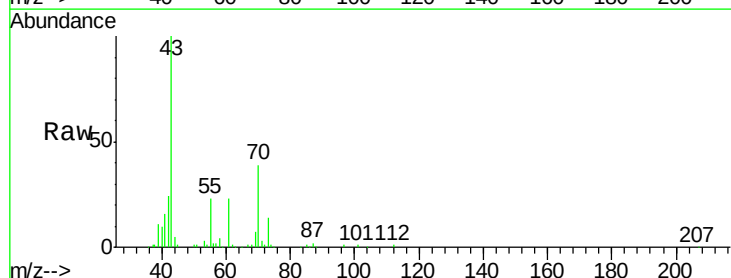
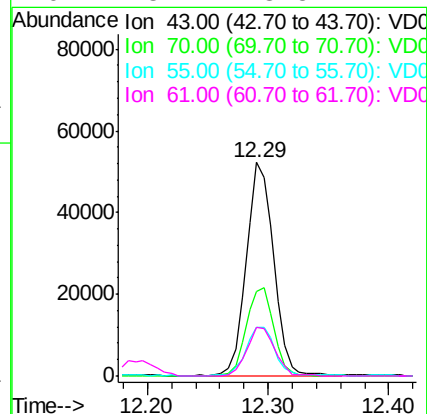
Ion Ratio Lower Upper

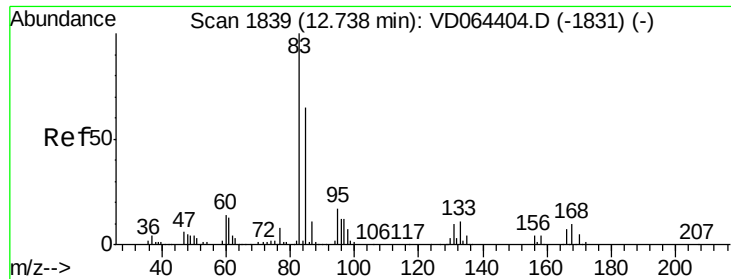
43 100

70 41.1 33.4 50.2

55 24.0 18.9 28.3

61 23.1 18.5 27.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.514 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

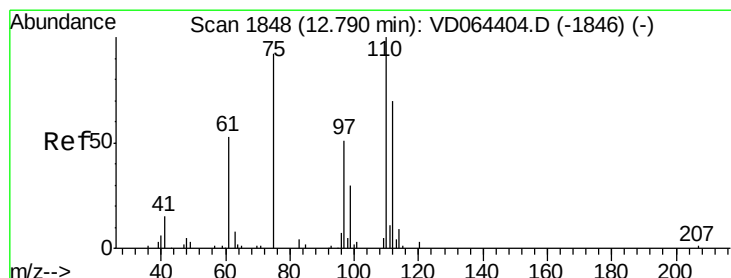
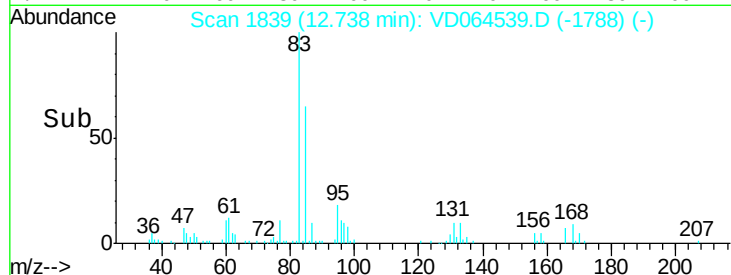
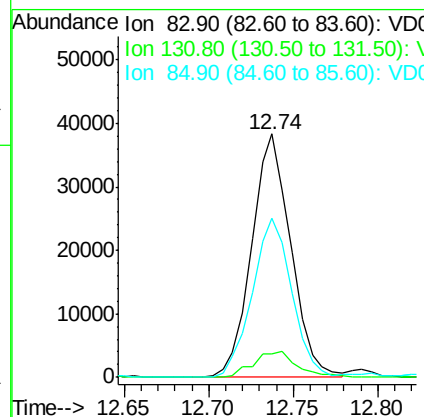
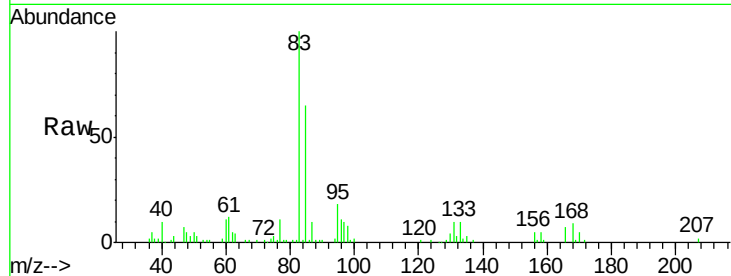
ClientSampleId :

VD1217SBS01

Tot Ion:	83	Resp:	61696
Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.7	17.0
85	66.5	31.3	93.9

Manual Integrations
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12/18/2019 1:00:48 PM



#76

1,2,3-Trichloropropane

Concen: 18.417 ug/l m

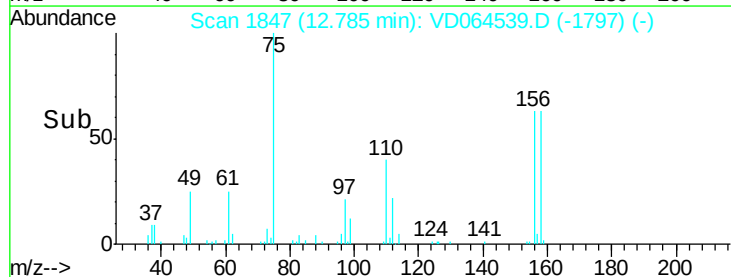
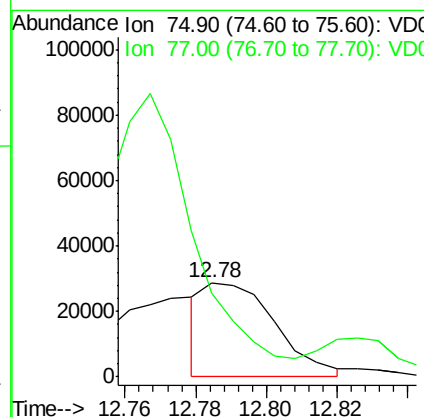
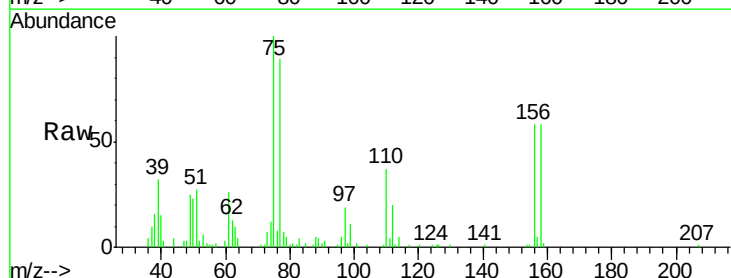
RT: 12.78 min Scan# 1847

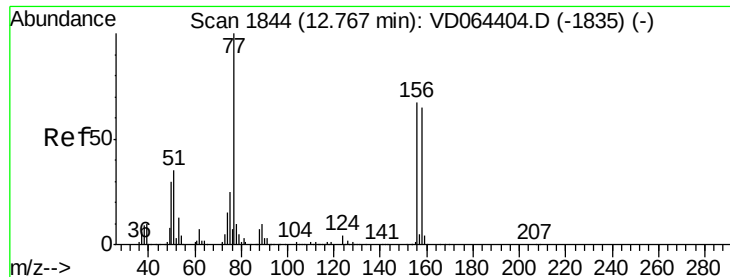
Delta R.T. -0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Tgt Ion:	75	Resp:	40261
Ion	Ratio	Lower	Upper
75	100		
77	397.7	0.0	0.0#





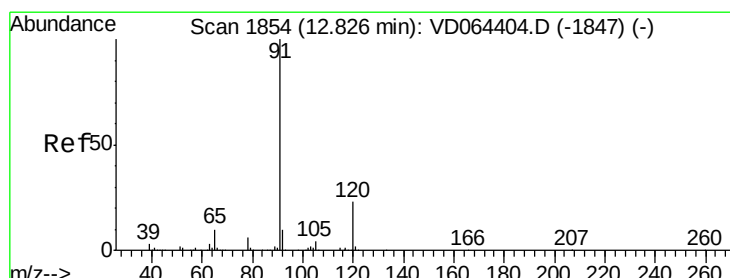
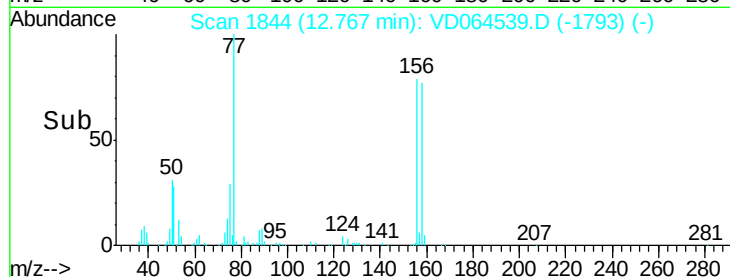
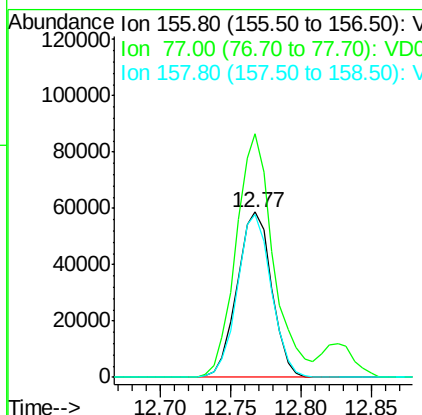
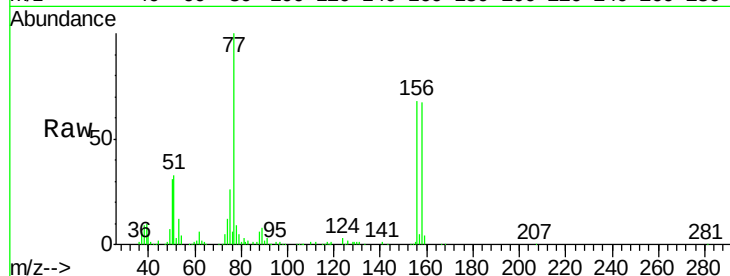
#77
Bromobenzene
Concen: 21.355 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	158.8	80.0	240.2
158	96.6	48.9	146.6

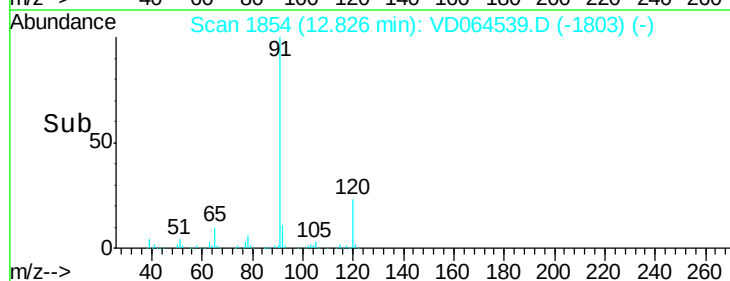
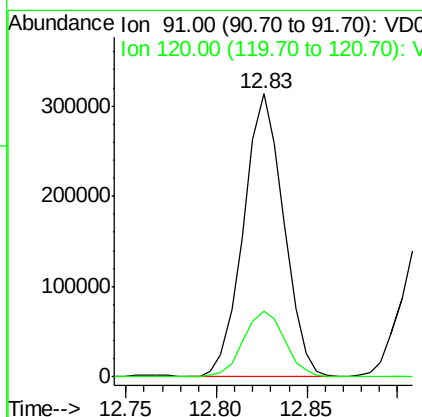
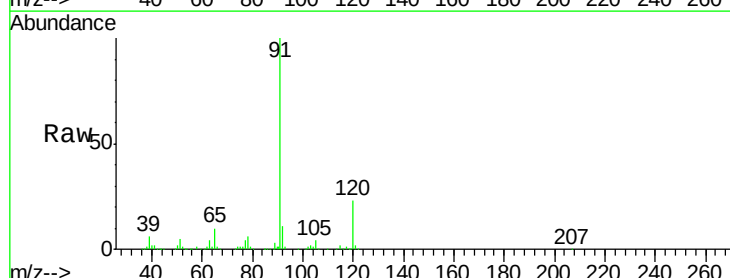
Manual Integrations
APPROVED

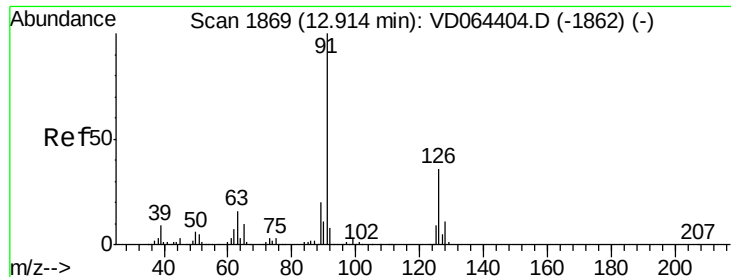
MMDadoda
12/18/2019 1:00:48 PM



#78
n-propylbenzene
Concen: 21.913 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.9	35.9





#79

2-Chlorotoluene

Concen: 21.542 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBS01

Tot Ion: 91 Resp: 261479

Ion Ratio Lower Upper

91 100

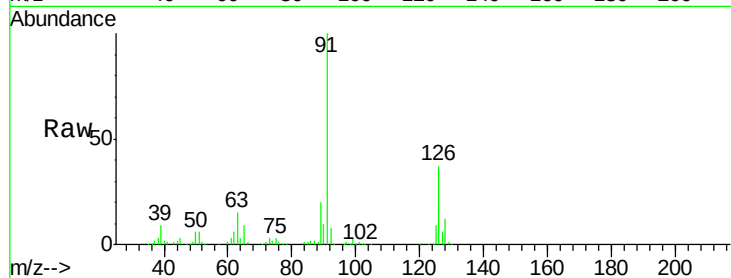
126 36.9 18.0 54.0

Manual Integrations

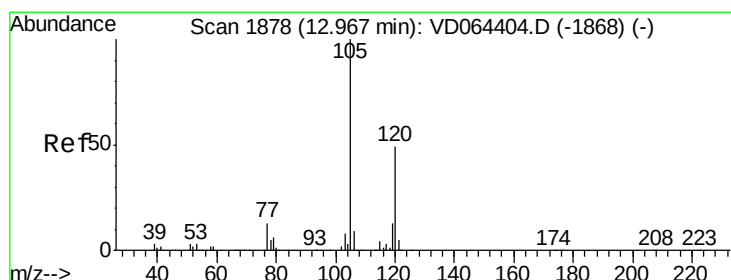
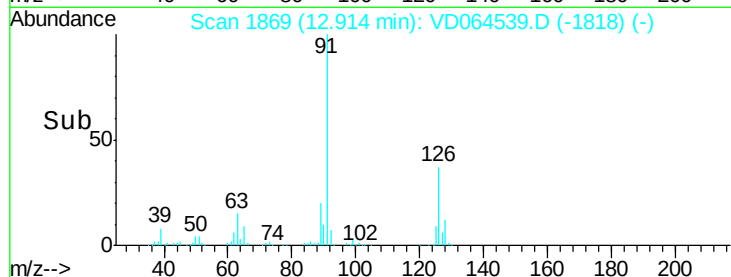
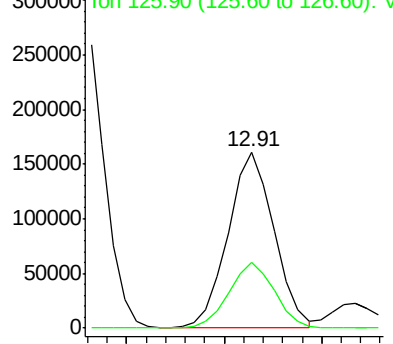
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Abundance Ion 91.00 (90.70 to 91.70): VD064539.D (-1818) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.890 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064539.D

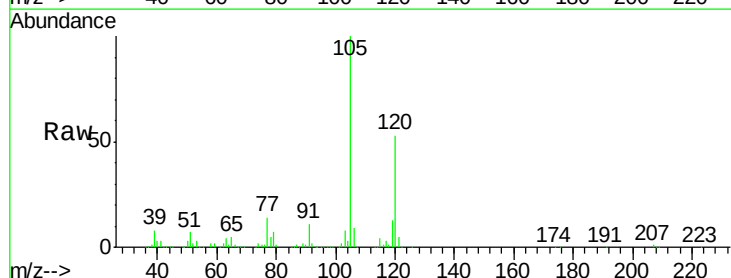
Acq: 17 Dec 2019 12:17

Tgt Ion:105 Resp: 342008

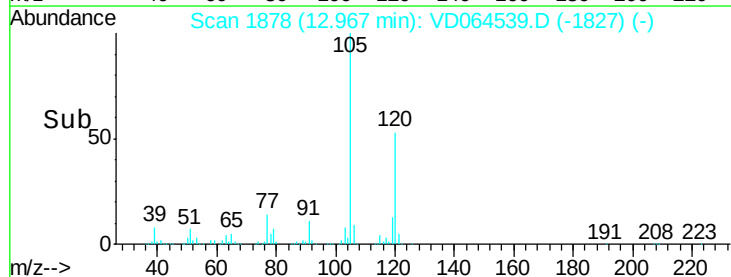
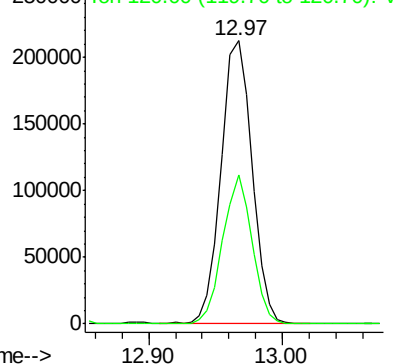
Ion Ratio Lower Upper

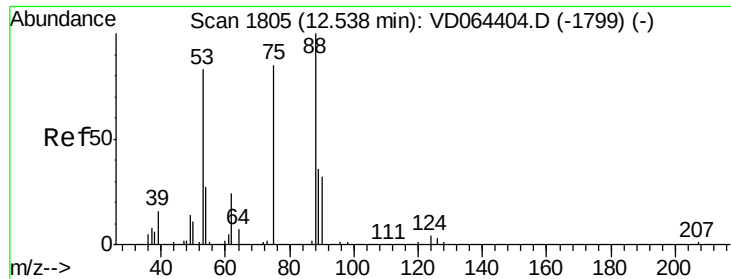
105 100

120 49.6 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): VD064539.D (-1827) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.056 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.01 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

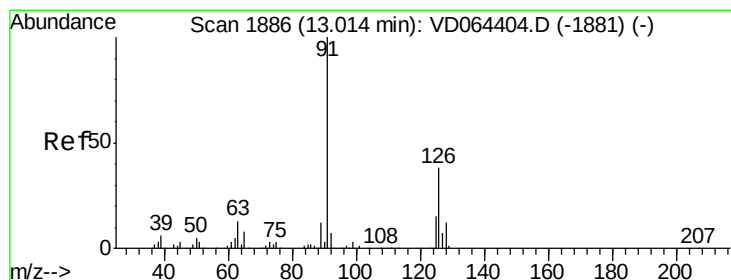
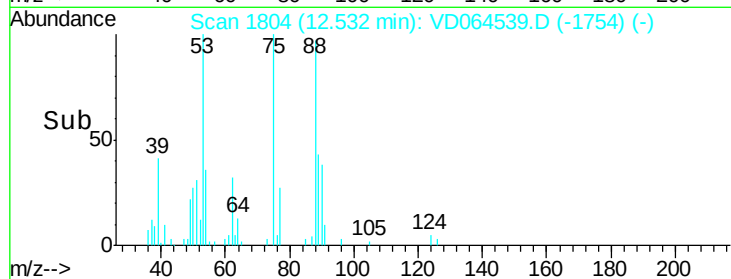
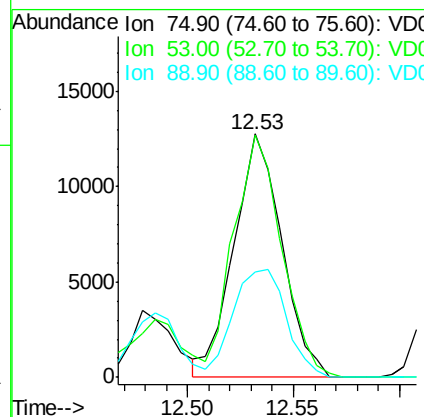
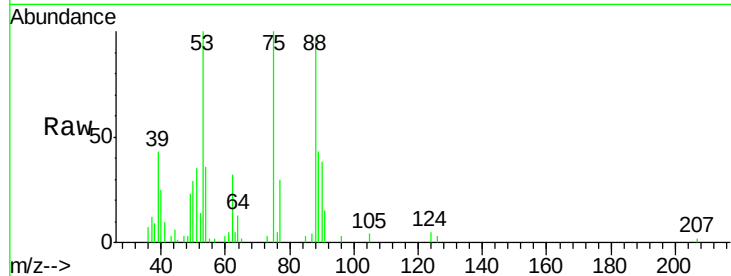
ClientSampleId :

VD1217SBS01

Tot Ion:	75	Resp:	20108
Ion Ratio	Lower	Upper	
75	100		
53	99.3	81.0	121.6
89	49.0	38.5	57.7

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.594 ug/l

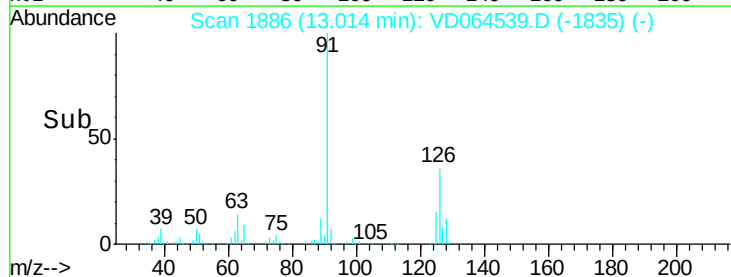
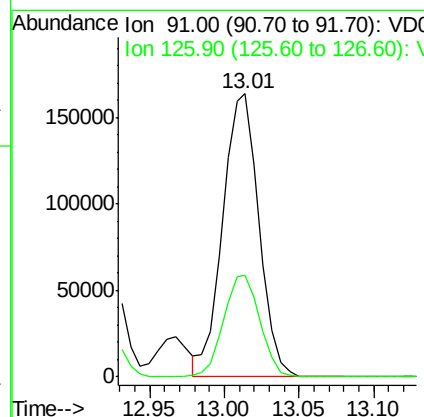
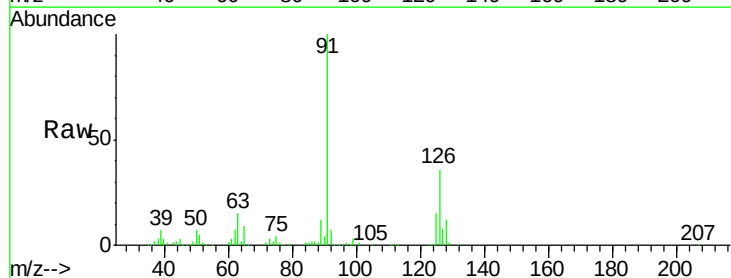
RT: 13.01 min Scan# 1886

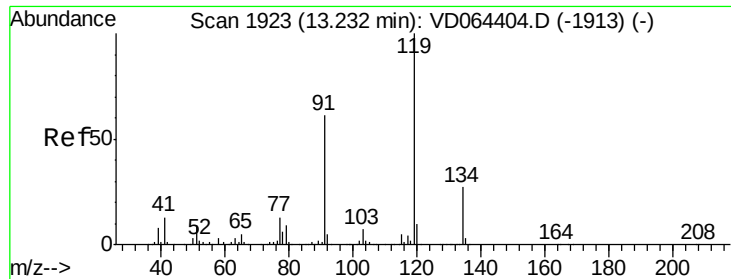
Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Tgt Ion:	91	Resp:	277526
Ion Ratio	Lower	Upper	
91	100		
126	36.0	18.2	54.6





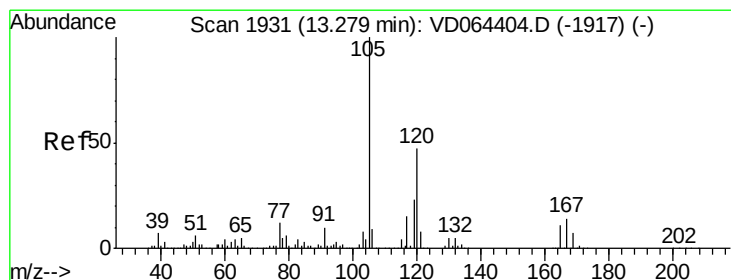
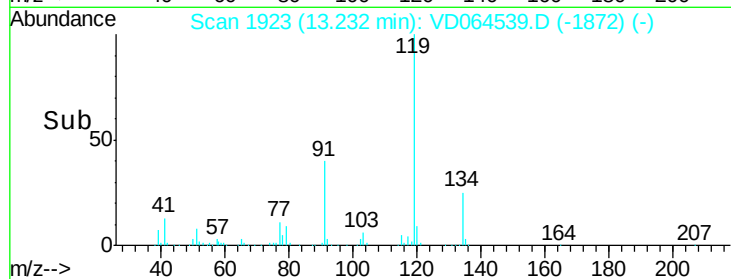
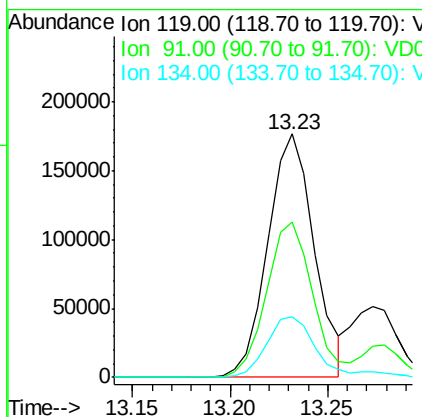
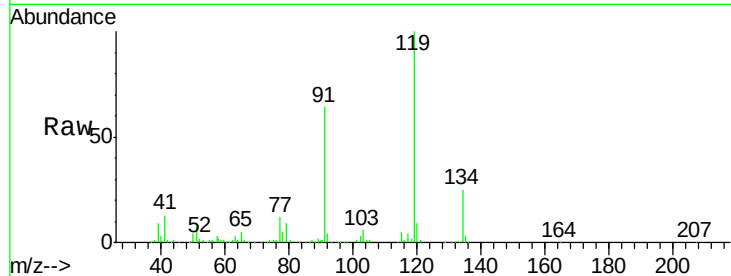
#83
 tert-Butylbenzene
 Concen: 21.427 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	291050		
91	64.0		31.2	93.6
134	27.2		13.9	41.7

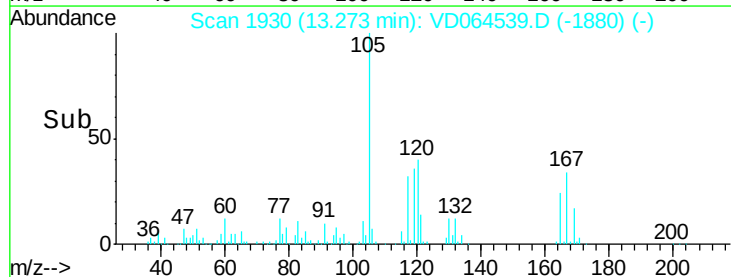
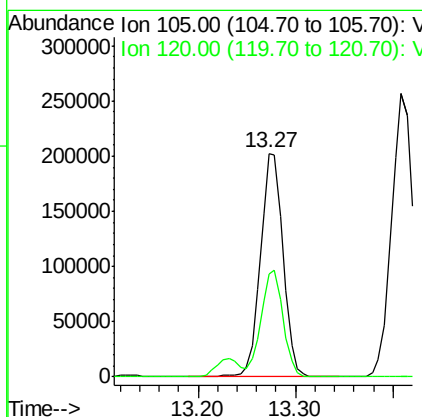
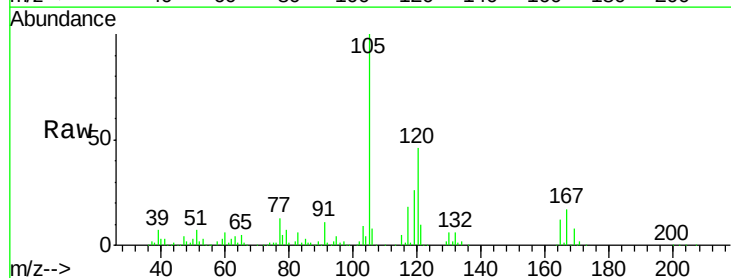
Manual Integrations
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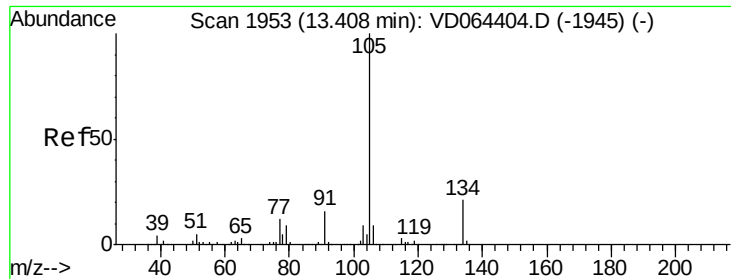
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.143 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.01 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	332170		
120	46.2		23.6	70.8





#85

sec-Butylbenzene

Concen: 21.537 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

Instrument :

MSVOA_D

ClientSampleId :

VD1217SBSD01

Tot Ion:105 Resp: 401501

Ion Ratio Lower Upper

105 100

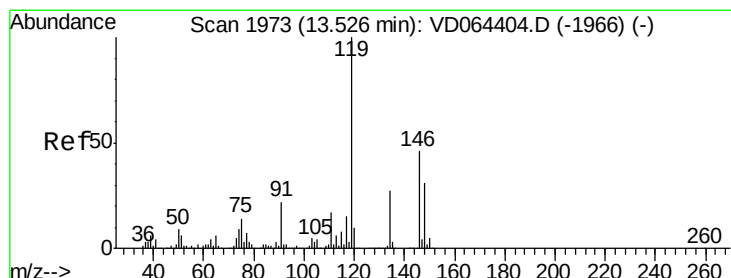
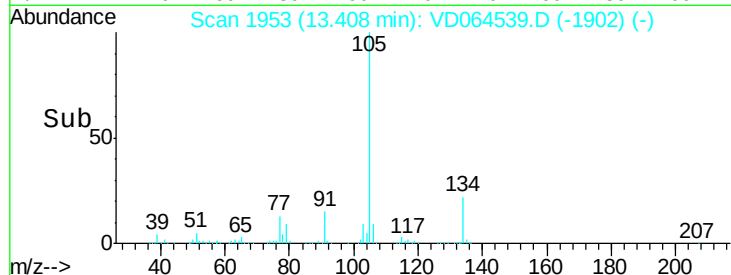
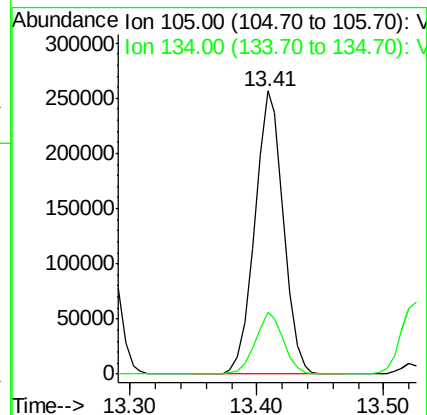
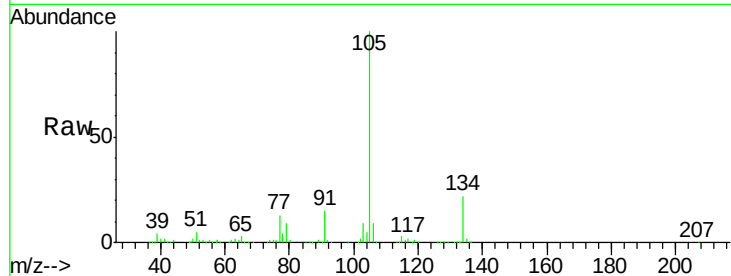
134 21.2 10.5 31.5

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.351 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064539.D

Acq: 17 Dec 2019 12:17

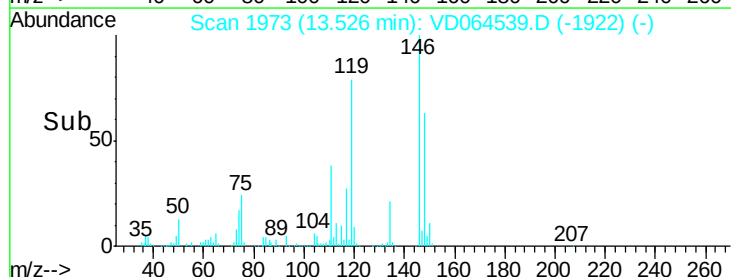
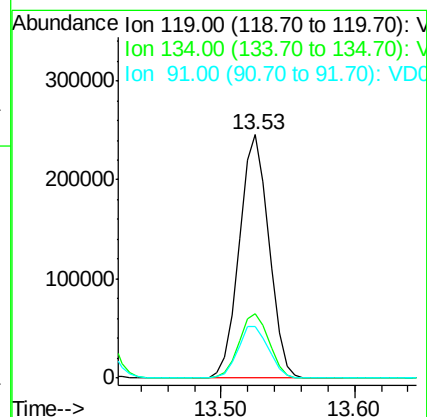
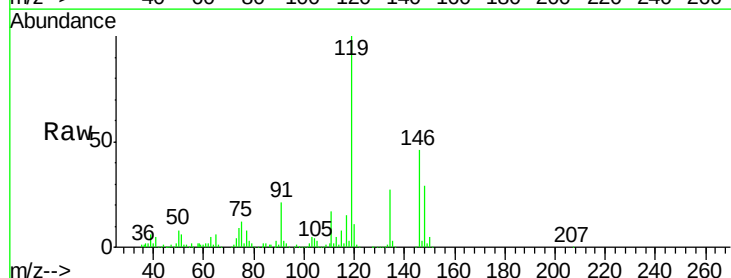
Tgt Ion:119 Resp: 375785

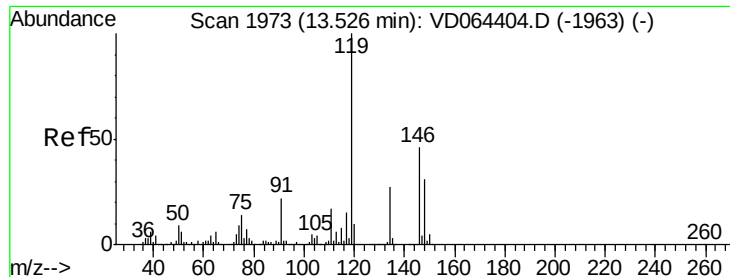
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 22.1 11.2 33.5





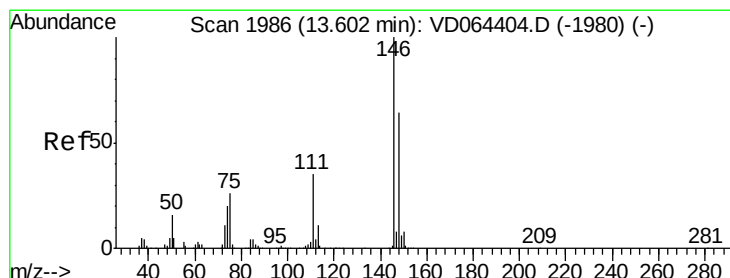
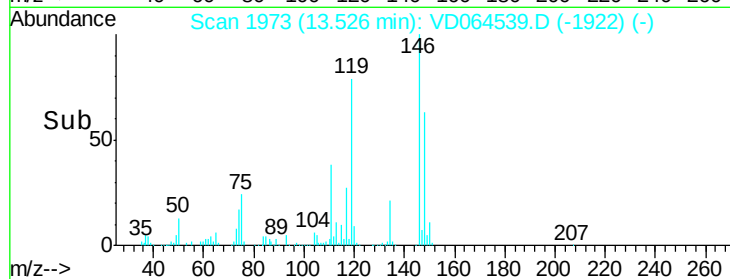
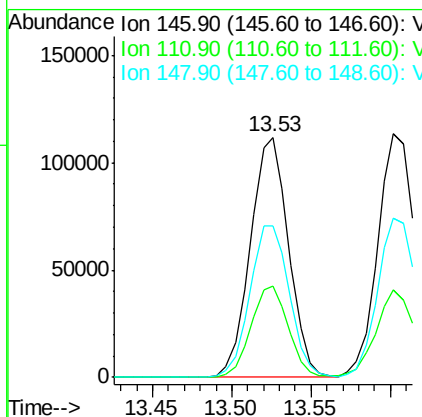
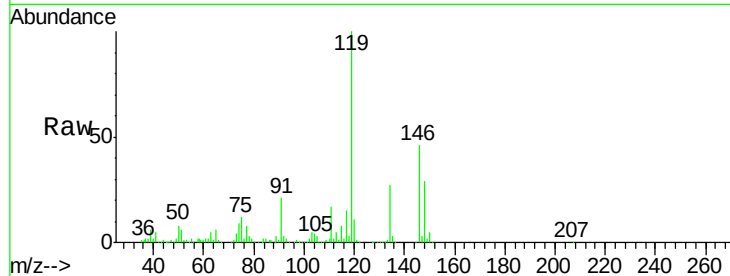
#87
 1,3-Dichlorobenzene
 Concen: 20.929 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.8	56.4
148	65.4	32.6	97.8

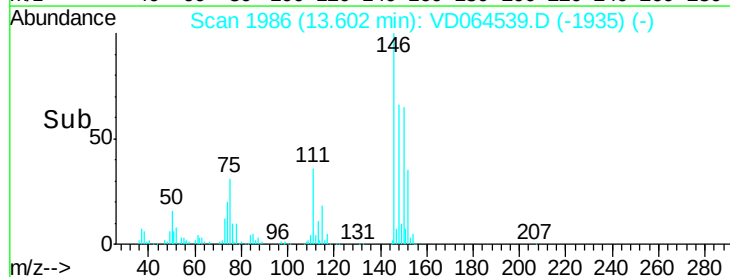
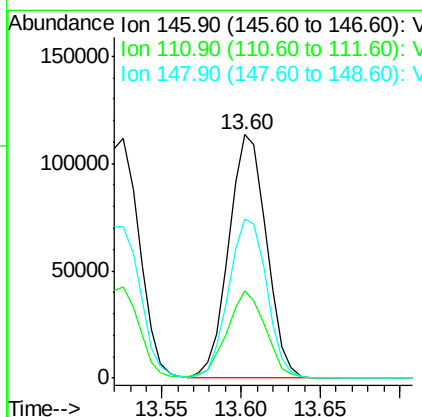
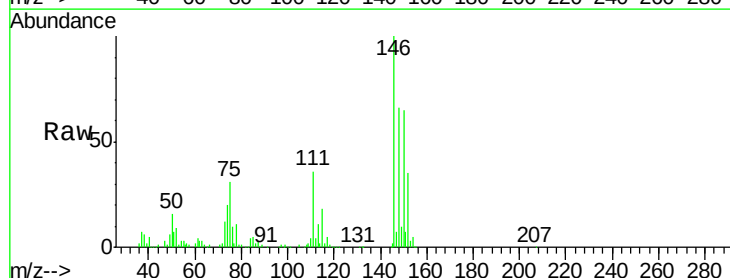
Manual Integrations
 APPROVED

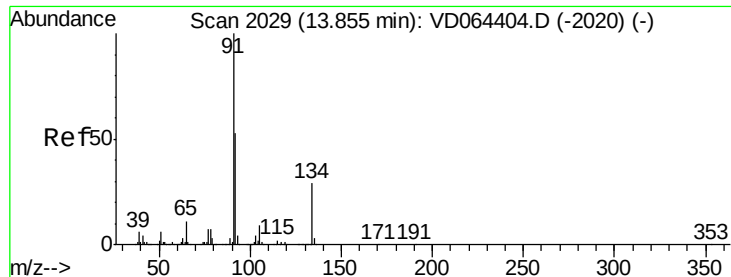
MMDadoda
 12/18/2019 1:00:48 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.194 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	18.2	54.6
148	65.9	31.8	95.4





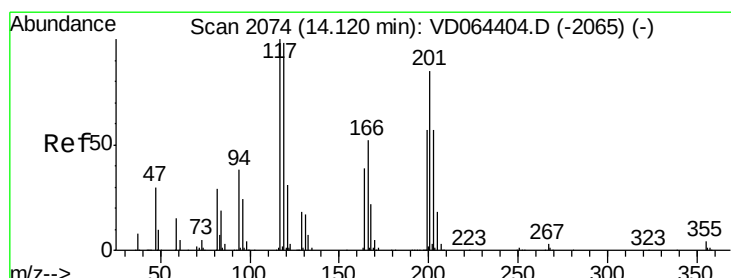
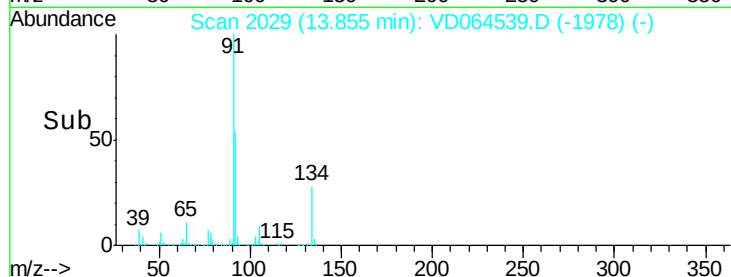
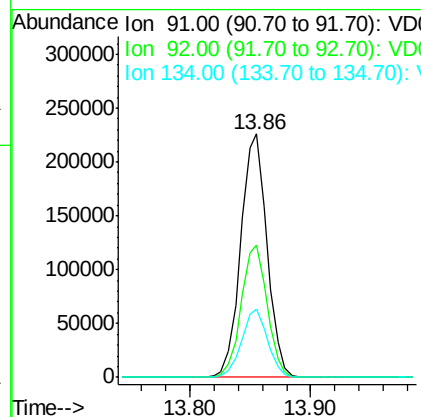
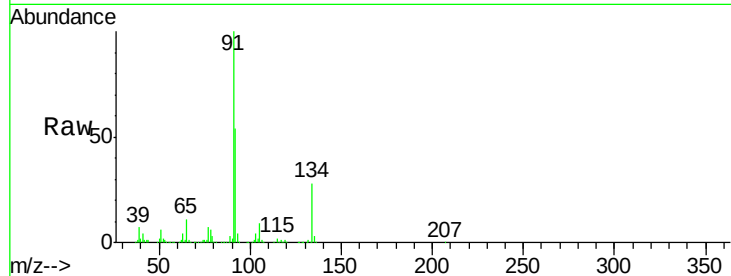
#89
n-Butylbenzene
Concen: 21.448 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.5	79.4
134	27.6	13.9	41.7

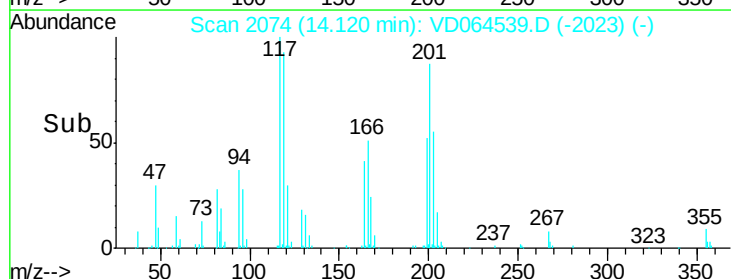
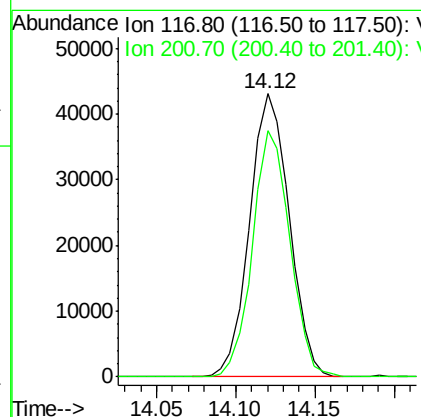
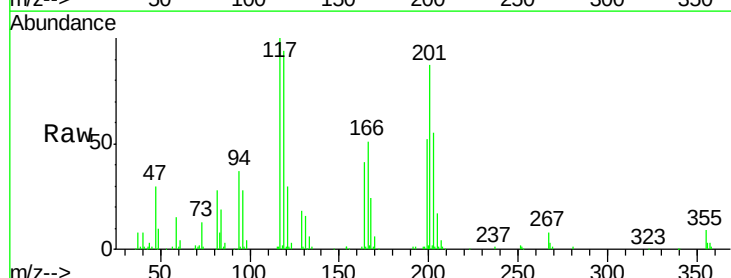
Manual Integrations
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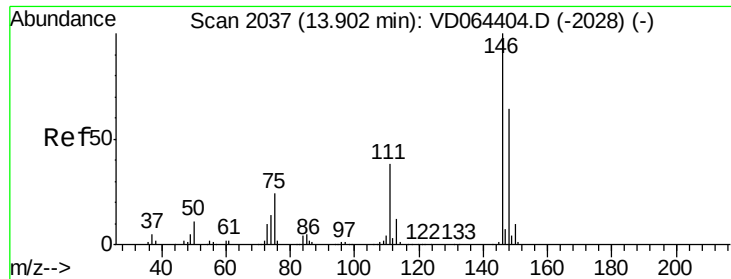
MMDadoda
12/18/2019 1:00:48 PM



#90
Hexachloroethane
Concen: 22.808 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.0	44.3	132.8





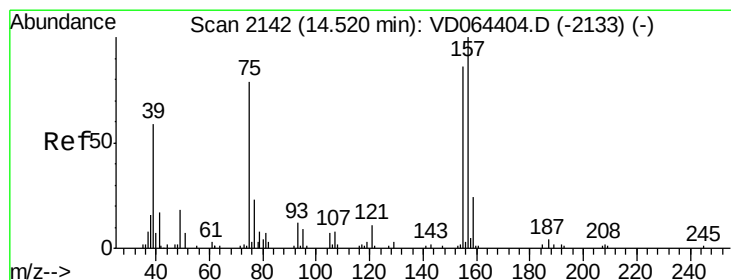
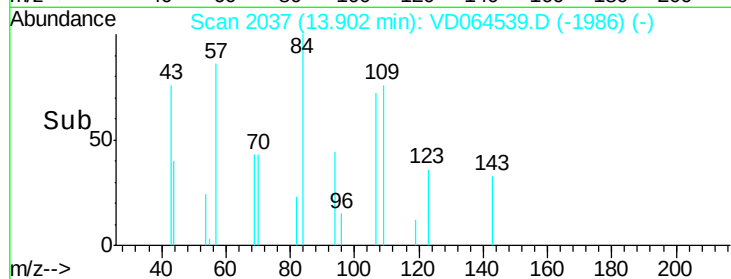
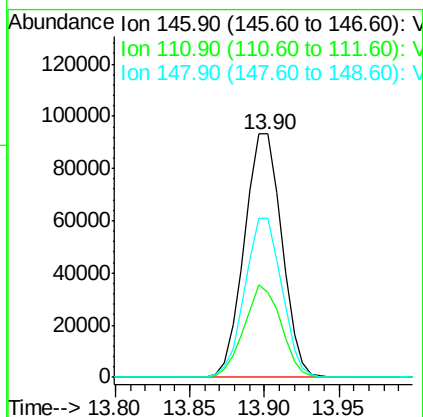
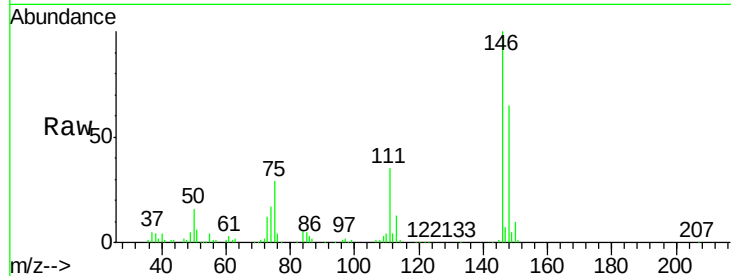
#91
 1,2-Dichlorobenzene
 Concen: 21.202 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	19.1	57.3
148	64.5	32.0	96.0

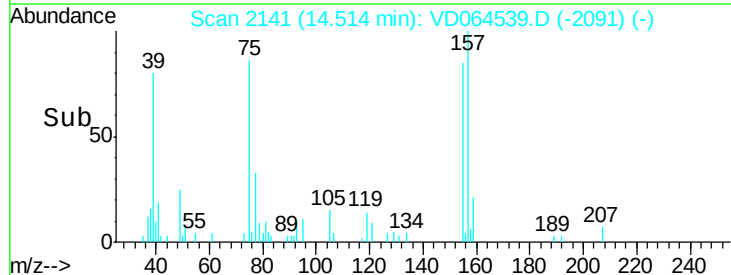
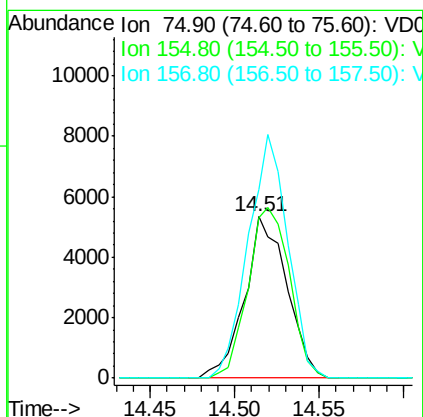
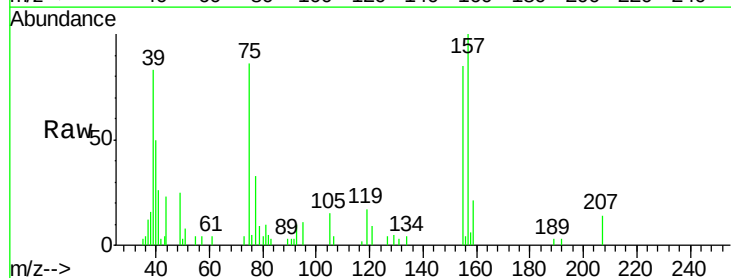
Manual Integrations
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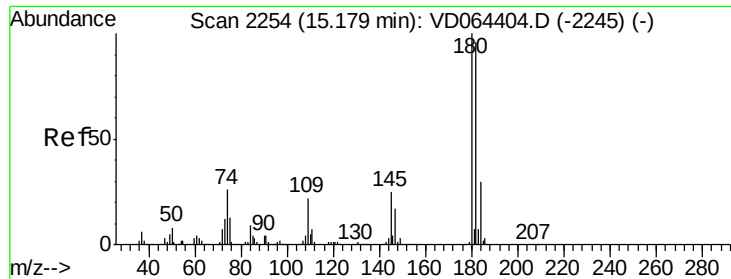
MMDadoda
 12/18/2019 1:00:48 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.710 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	104.1	51.9	155.7
157	141.7	63.2	189.8





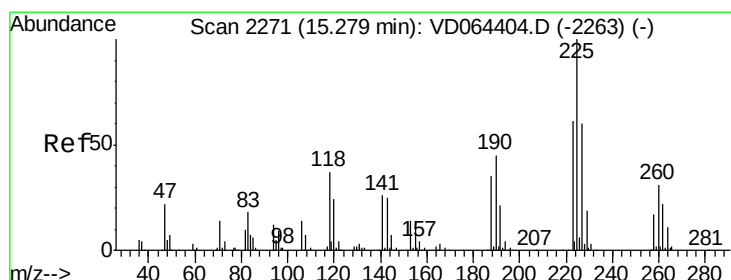
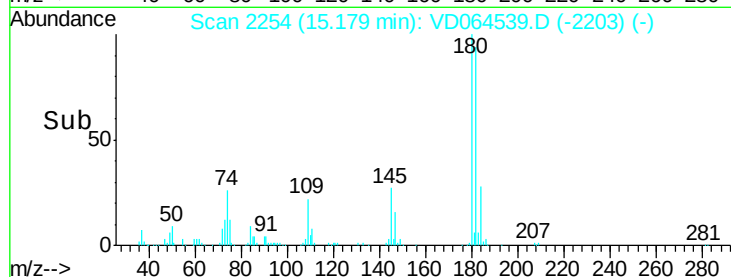
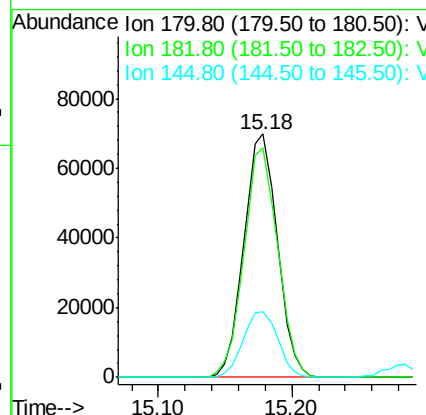
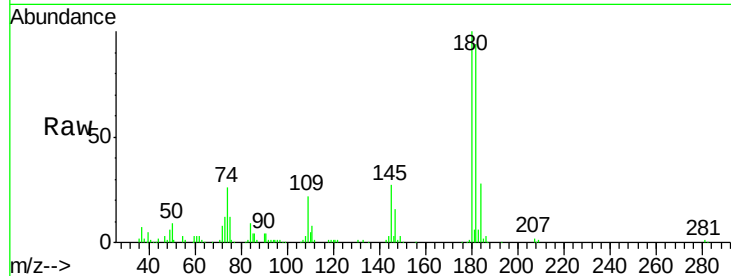
#93
 1,2,4-Trichlorobenzene
 Concen: 20.622 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1217SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	120947		
182	95.6	47.4	142.3	
145	28.2	14.0	41.9	

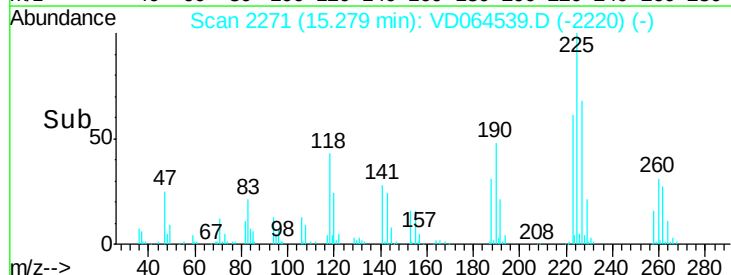
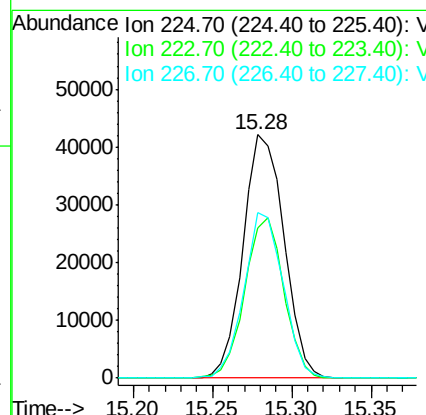
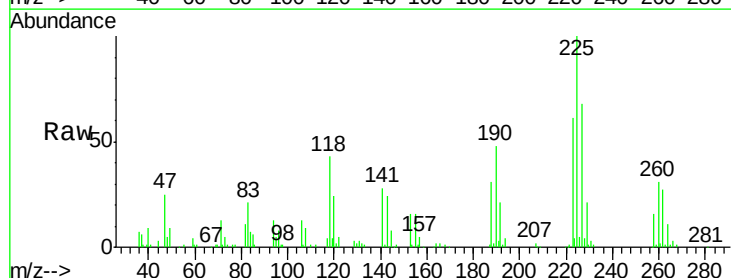
Manual Integrations
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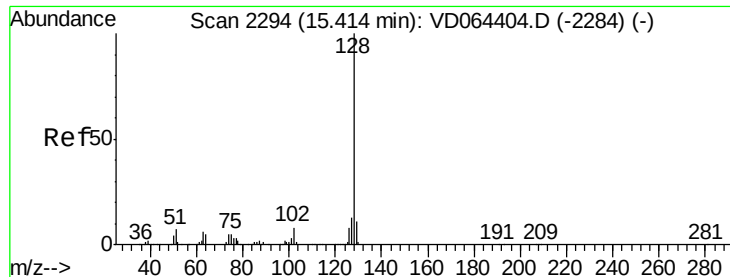
MMDadoda
 12/18/2019 1:00:48 PM



#94
 Hexachlorobutadiene
 Concen: 20.897 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064539.D
 Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	75662		
223	62.9	31.1	93.3	
227	65.2	31.8	95.4	





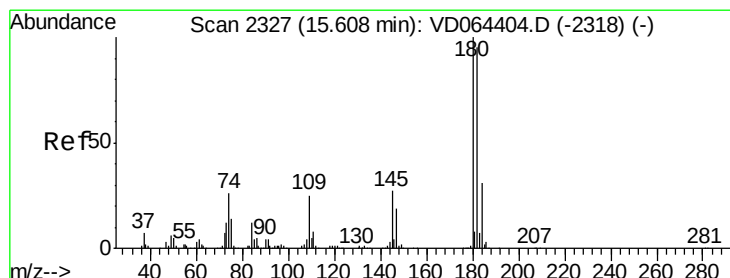
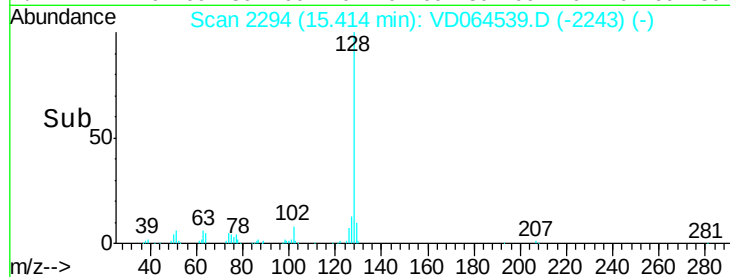
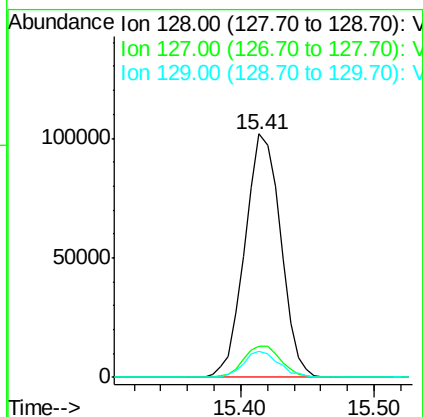
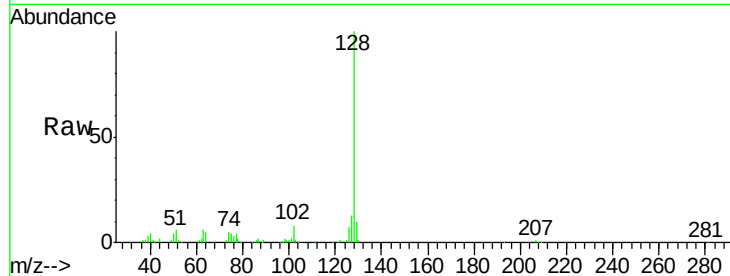
#95
Naphthalene
Concen: 19.298 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Instrument :
MSVOA_D
ClientSampleId :
VD1217SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	188887		
127	13.2		10.5	15.7
129	10.4		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
12/18/2019 1:00:48 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.825 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064539.D
Acq: 17 Dec 2019 12:17

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	99253		
182	96.4		47.6	142.9
145	30.5		14.6	43.8

