

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050719\
 Data File : VD062144.D
 Acq On : 7 May 2019 20:24
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/9/2019 12:56:37 AM

Quant Time: May 08 04:37:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	827178	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	1191997	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	913598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	515041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	366130	47.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.26%	
35) Dibromofluoromethane	6.89	113	475733	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
50) Toluene-d8	10.39	98	1094261	45.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.78%	
62) 4-Bromofluorobenzene	13.54	95	432322	45.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.55	85	358999	45.378	ug/l	100
3) Chloromethane	1.73	50	257709	45.082	ug/l	98
4) Vinyl Chloride	1.83	62	275002	48.950	ug/l	99
5) Bromomethane	2.13	94	68044	51.690	ug/l	91
6) Chloroethane	2.23	64	118453	50.247	ug/l	97
7) Trichlorofluoromethane	2.50	101	483117	44.232	ug/l	96
8) Diethyl Ether	2.84	74	112444	53.380	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.12	101	382887	46.341	ug/l	97
10) Methyl Iodide	3.28	142	569415	45.599	ug/l	93
11) Tert butyl alcohol	4.03	59	102730	261.810	ug/l #	90
12) 1,1-Dichloroethene	3.10	96	319135	50.599	ug/l	96
13) Acrolein	3.01	56	101961	251.232	ug/l	100
14) Allyl chloride	3.59	41	418692	45.657	ug/l	90
15) Acrylonitrile	4.16	53	258717	250.850	ug/l	89
16) Acetone	3.19	43	357665	221.868	ug/l	93
17) Carbon Disulfide	3.36	76	954393	52.602	ug/l	100
18) Methyl Acetate	3.61	43	149263	51.782	ug/l	97
19) Methyl tert-butyl Ether	4.20	73	668831	49.474	ug/l	98
20) Methylene Chloride	3.79	84	357328	53.087	ug/l	97
21) trans-1,2-Dichloroethene	4.19	96	339162	48.325	ug/l	96
22) Diisopropyl ether	5.08	45	931913	47.754	ug/l	99
23) Vinyl Acetate	5.02	43	2710842	263.288	ug/l	99
24) 1,1-Dichloroethane	4.95	63	558399	47.433	ug/l	99
25) 2-Butanone	6.03	43	450666	256.298	ug/l	95
26) 2,2-Dichloropropane	5.99	77	522404	44.548	ug/l	98
27) cis-1,2-Dichloroethene	6.00	96	387109	49.277	ug/l	98
28) Bromochloromethane	6.41	49	246679	53.259	ug/l	98
29) Tetrahydrofuran	6.43	42	223672	276.075	ug/l	97
30) Chloroform	6.63	83	686221	48.367	ug/l	99
31) Cyclohexane	6.93	56	403591	50.040	ug/l	96
32) 1,1,1-Trichloroethane	6.84	97	629338	46.930	ug/l	99
36) 1,1-Dichloropropene	7.11	75	467798	47.865	ug/l	96
37) Ethyl Acetate	6.14	43	199734	48.190	ug/l	96
38) Carbon Tetrachloride	7.09	117	632199m	46.736	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.84	83	453422	48.422	ug/l	97
40) Benzene	7.43	78	1035362	46.915	ug/l	97
41) Methacrylonitrile	6.42	41	263847	52.092	ug/l #	91
42) 1,2-Dichloroethane	7.55	62	463531	49.574	ug/l	98
43) Isopropyl Acetate	9.21	43	295291	50.236	ug/l #	96
44) Trichloroethene	8.51	130	395513	47.031	ug/l	92
45) 1,2-Dichloropropane	8.92	63	251470	46.067	ug/l	96
46) Dibromomethane	9.03	93	218557	49.235	ug/l	92
47) Bromodichloromethane	9.35	83	514283	47.364	ug/l	98
48) Methyl methacrylate	9.09	41	188168	51.970	ug/l	90
49) 1,4-Dioxane	9.04	88	41061	1051.085	ug/l	99
51) 4-Methyl-2-Pentanone	10.27	43	967442	256.039	ug/l	95
52) Toluene	10.49	92	672298	46.820	ug/l	100
53) t-1,3-Dichloropropene	10.89	75	467009	49.764	ug/l	96
54) cis-1,3-Dichloropropene	10.02	75	505633	49.390	ug/l	96
55) 1,1,2-Trichloroethane	11.17	97	243007	47.831	ug/l	97
56) Ethyl methacrylate	11.02	69	267459	50.660	ug/l	91
57) 1,3-Dichloropropane	11.39	76	369659	48.161	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.83	63	744541	258.178	ug/l	100
59) 2-Hexanone	11.51	43	706338	253.632	ug/l	95
60) Dibromochloromethane	11.66	129	436726	49.739	ug/l	99
61) 1,2-Dibromoethane	11.79	107	305822	49.512	ug/l	96
64) Tetrachloroethene	11.24	164	356146	49.853	ug/l	93
65) Chlorobenzene	12.38	112	829279	48.735	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.50	131	374250	50.536	ug/l	98
67) Ethyl Benzene	12.51	91	1434815	50.367	ug/l	98
68) m/p-Xylenes	12.66	106	1003577	96.829	ug/l	99
69) o-Xylene	13.04	106	499085	51.796	ug/l	96
70) Styrene	13.06	104	876052	53.670	ug/l	97
71) Bromoform	13.23	173	259552	50.375	ug/l #	98
73) Isopropylbenzene	13.39	105	1442250	46.715	ug/l	99
74) N-amyl acetate	13.26	43	393739	48.644	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.69	83	290738	49.744	ug/l	96
76) 1,2,3-Trichloropropane	13.72	75	287492	46.969	ug/l	99
77) Bromobenzene	13.66	156	412723	47.755	ug/l	99
78) n-propylbenzene	13.76	91	1623083	44.072	ug/l	95
79) 2-Chlorotoluene	13.83	91	898675	42.607	ug/l	93
80) 1,3,5-Trimethylbenzene	13.92	105	1226514	47.178	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.46	75	87179	50.452	ug/l	88
82) 4-Chlorotoluene	13.93	91	1064382	42.884	ug/l	89
83) tert-Butylbenzene	14.18	119	1370358	46.896	ug/l	99
84) 1,2,4-Trimethylbenzene	14.23	105	1237090	47.419	ug/l	96
85) sec-Butylbenzene	14.36	105	1485001	46.351	ug/l	99
86) p-Isopropyltoluene	14.49	119	1340643	46.836	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	724039	45.861	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	703164	45.329	ug/l	99
89) n-Butylbenzene	14.79	91	1229285	47.846	ug/l	97
90) Hexachloroethane	15.00	117	366015	47.020	ug/l	88
91) 1,2-Dichlorobenzene	14.80	146	653490	50.260	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.37	75	44844	46.741	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.93	180	475600	50.254	ug/l	96
94) Hexachlorobutadiene	16.03	225	322756	45.853	ug/l	99
95) Naphthalene	16.12	128	707477	53.546	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	328087	55.138	ug/l	95

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

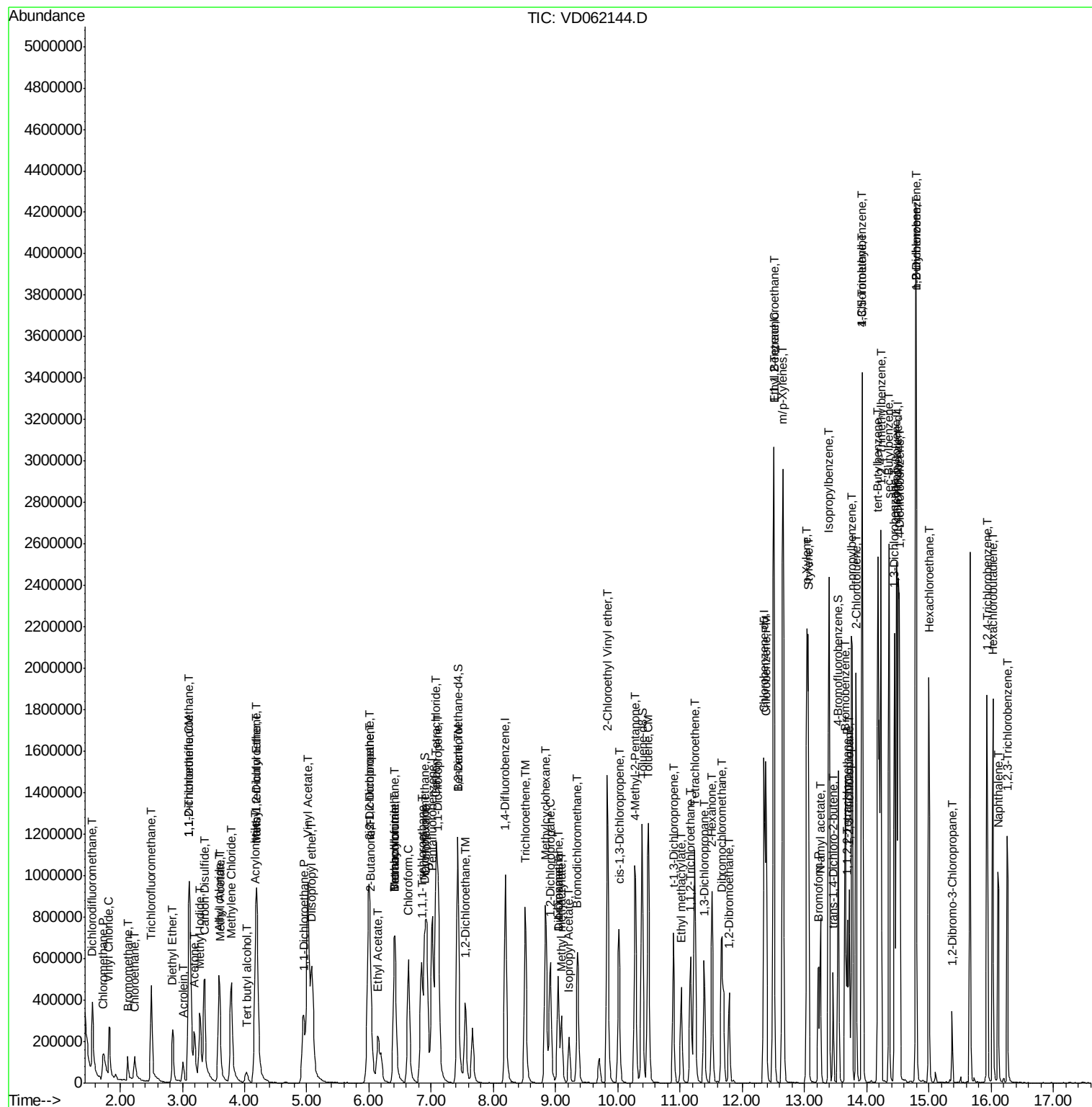
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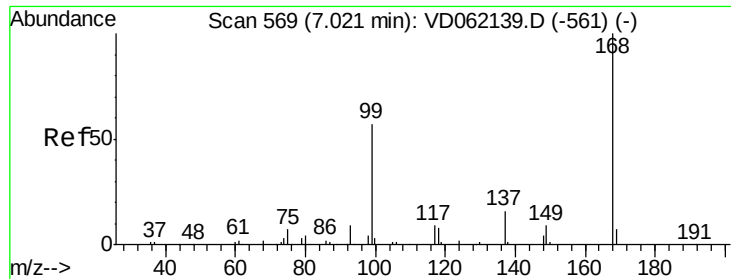
Instrument :
 MSVOA_D
 Client Sampled :
 VSTDCCC050

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 827178

Ion Ratio Lower Upper

168 100

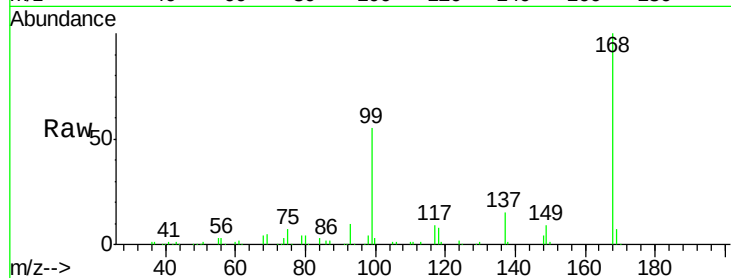
99 55.3 46.5 69.7

Manual Integrations

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5/9/2019 12:56:37 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

300000

250000

200000

150000

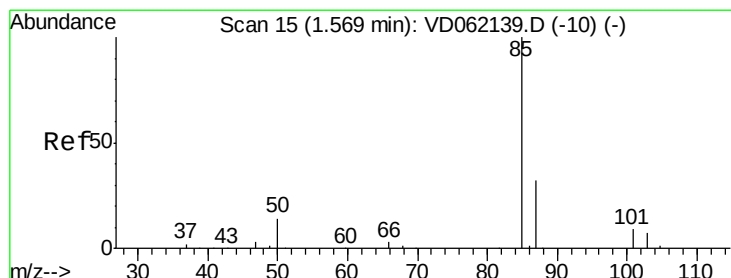
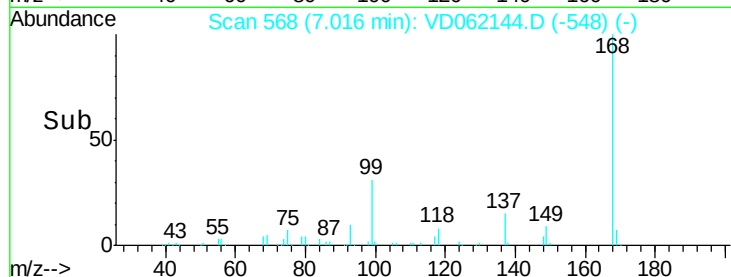
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 45.378 ug/l

RT: 1.55 min Scan# 13

Delta R.T. -0.01 min

Lab File: VD062144.D

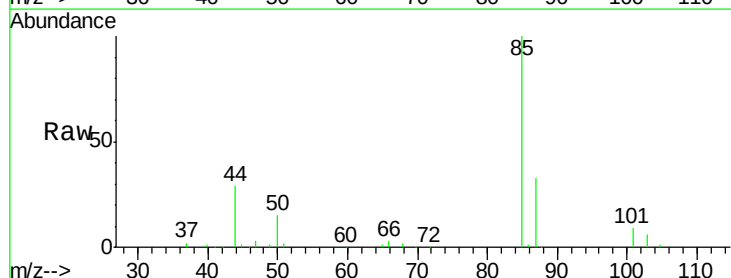
Acq: 7 May 2019 20:24

Tgt Ion: 85 Resp: 358999

Ion Ratio Lower Upper

85 100

87 32.5 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.55

200000

150000

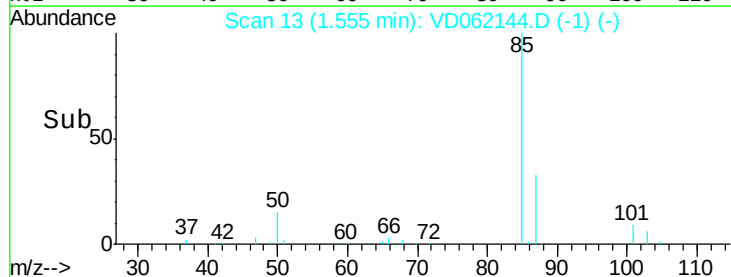
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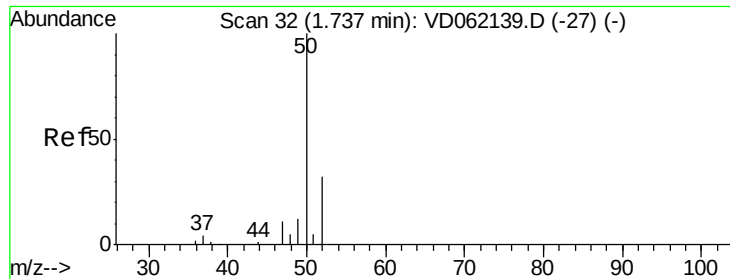
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 45.082 ug/l

RT: 1.73 min Scan# 31

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 257709

Ion Ratio Lower Upper

50 100

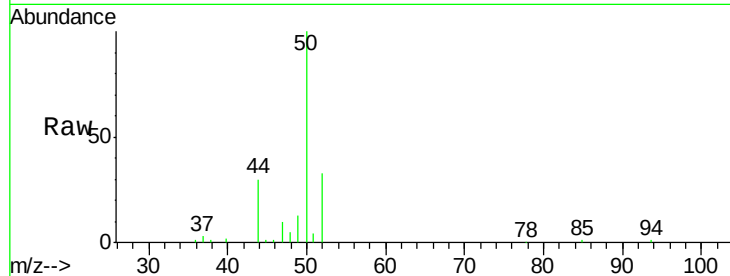
52 32.8 25.2 37.8

Manual Integrations

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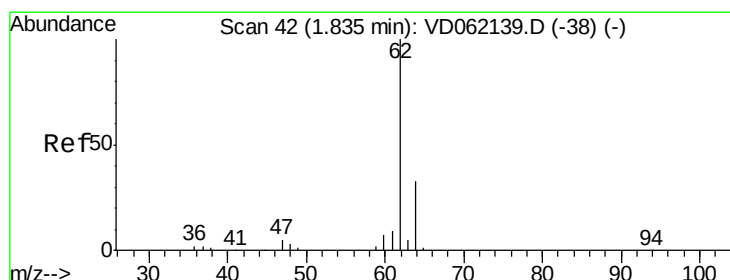
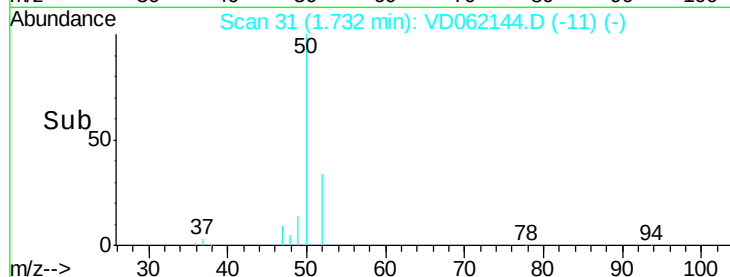
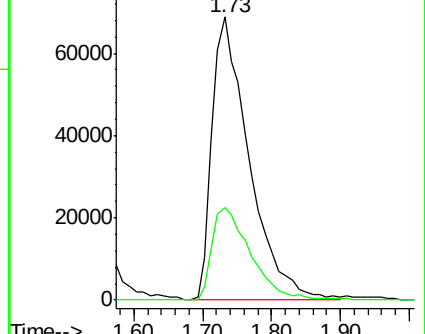
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.950 ug/l

RT: 1.83 min Scan# 41

Delta R.T. -0.00 min

Lab File: VD062144.D

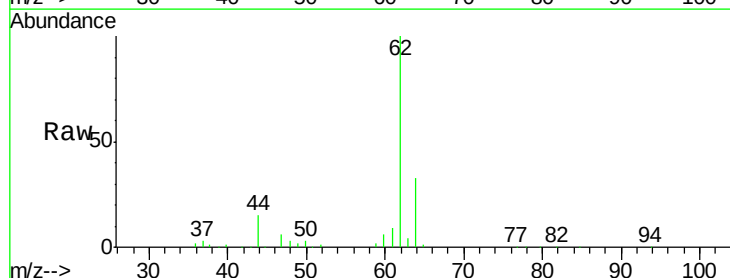
Acq: 7 May 2019 20:24

Tgt Ion: 62 Resp: 275002

Ion Ratio Lower Upper

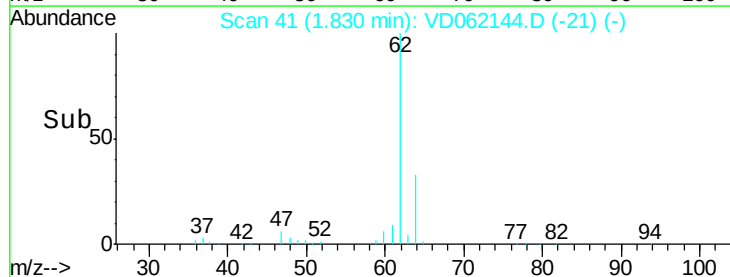
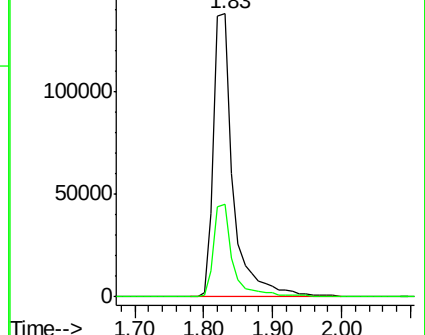
62 100

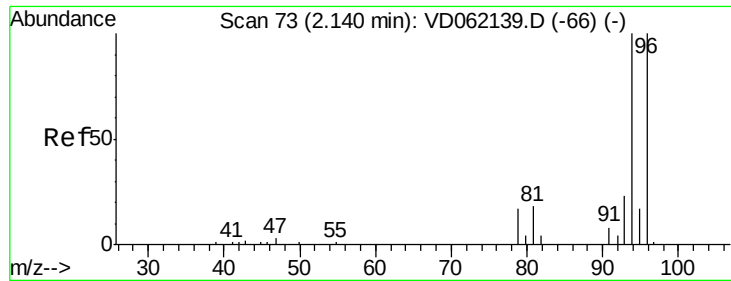
64 32.6 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 51.690 ug/l

RT: 2.13 min Scan# 71

Delta R.T. -0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

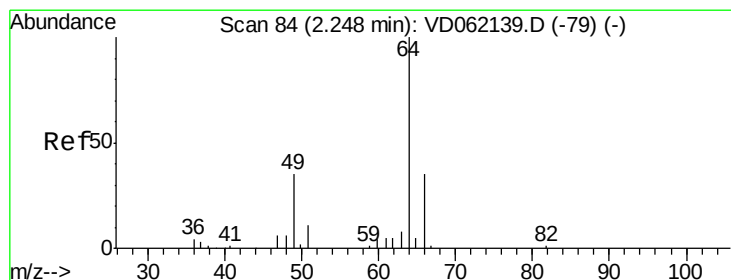
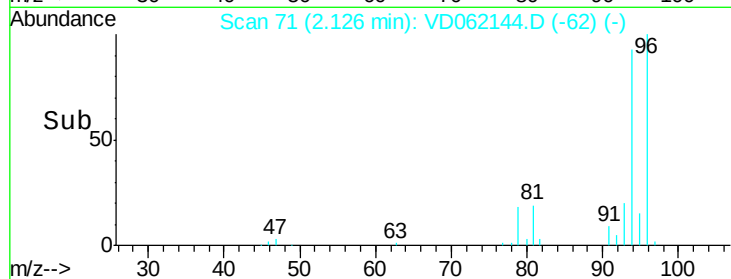
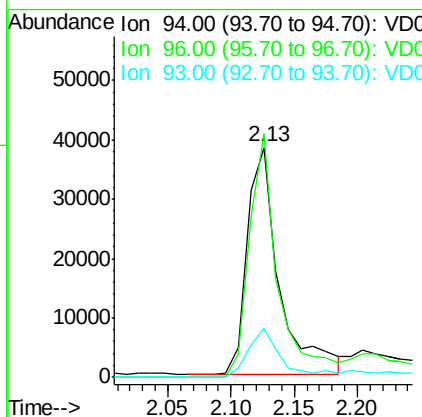
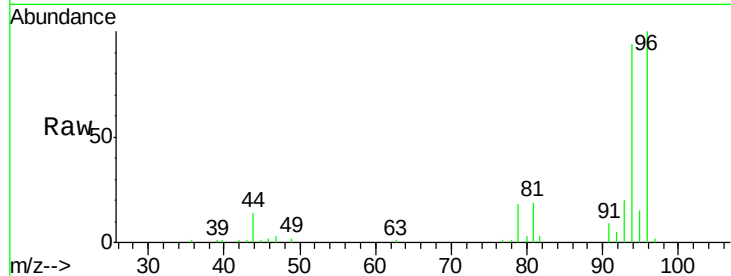
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	68044
Ion	Ratio	Lower	Upper
94	100		
96	106.0	76.6	115.0
93	21.4	18.5	27.7

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#6

Chloroethane

Concen: 50.247 ug/l

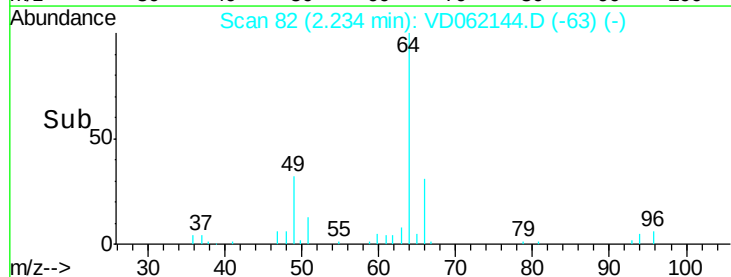
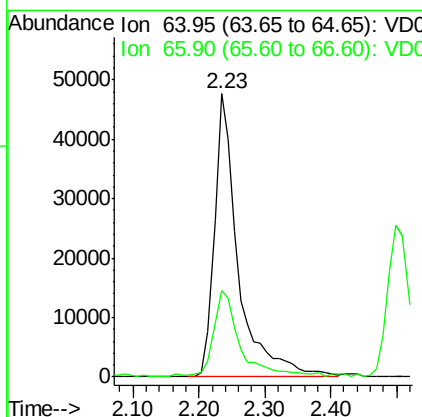
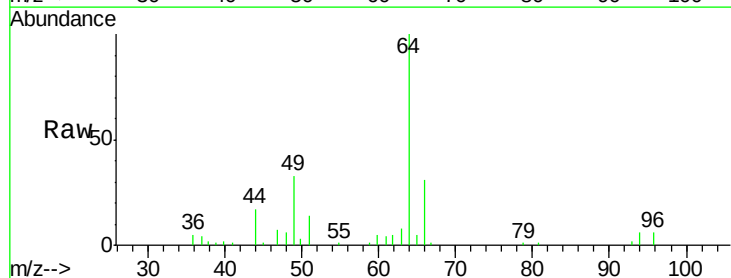
RT: 2.23 min Scan# 82

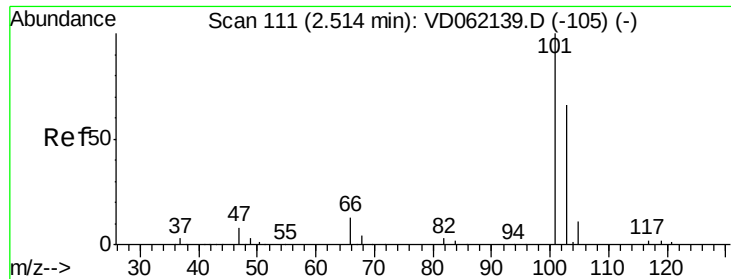
Delta R.T. -0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion:	64	Resp:	118453
Ion	Ratio	Lower	Upper
64	100		
66	30.6	25.6	38.4





#7

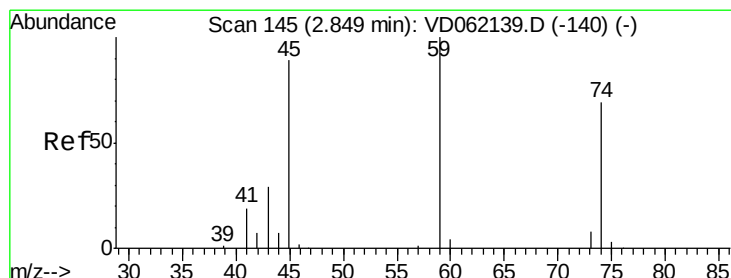
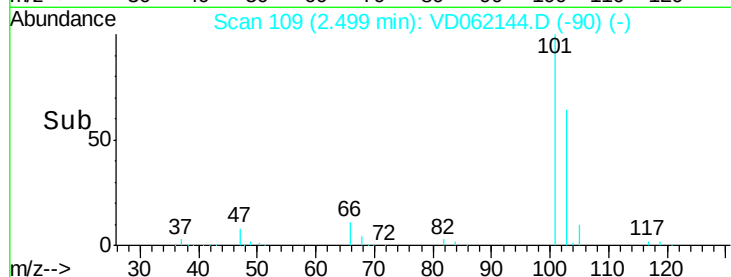
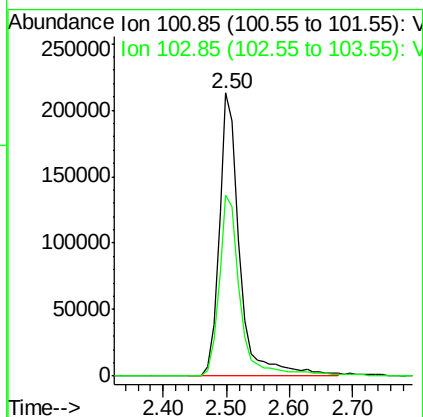
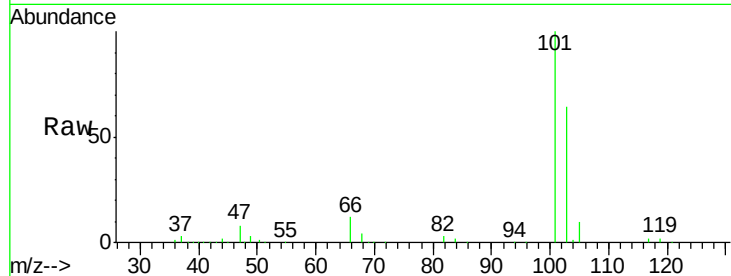
Trichlorofluoromethane
Concen: 44.232 ug/l
RT: 2.50 min Scan# 109
Delta R.T. -0.01 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		483117		
103	63.8	53.6	80.4		

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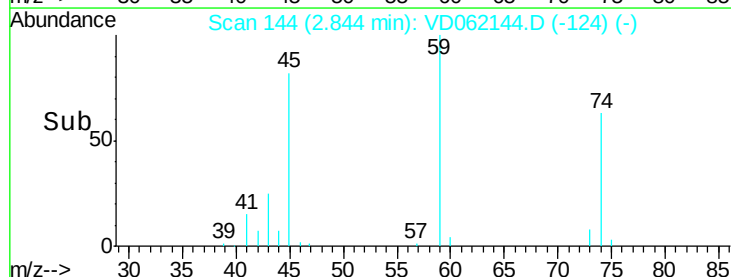
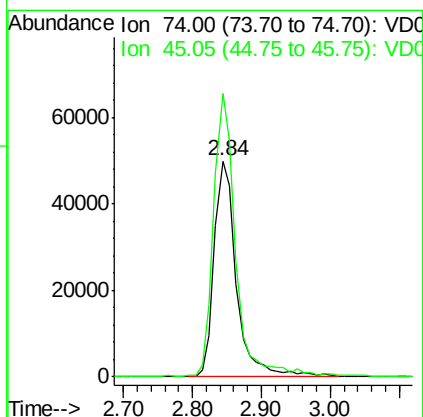
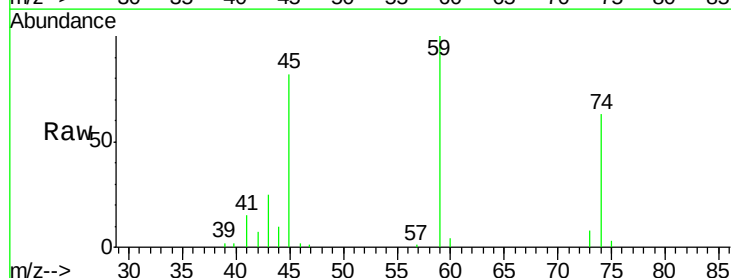
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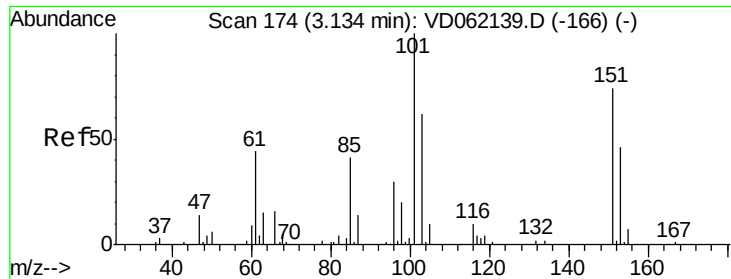


#8

Diethyl Ether
Concen: 53.380 ug/l
RT: 2.84 min Scan# 144
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		112444		
45	131.3	56.9	170.7		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.341 ug/l

RT: 3.12 min Scan# 172

Delta R.T. -0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

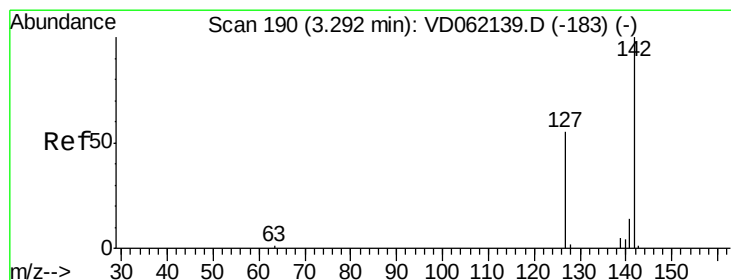
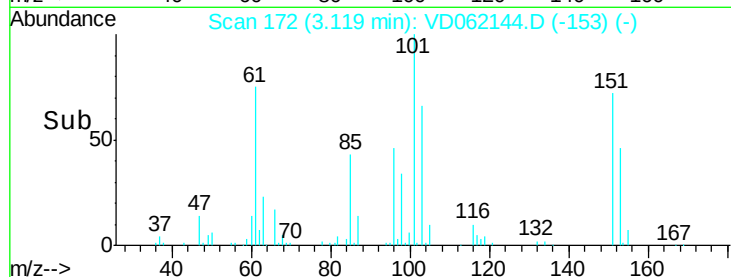
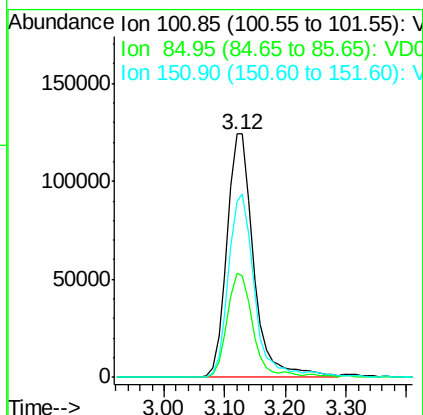
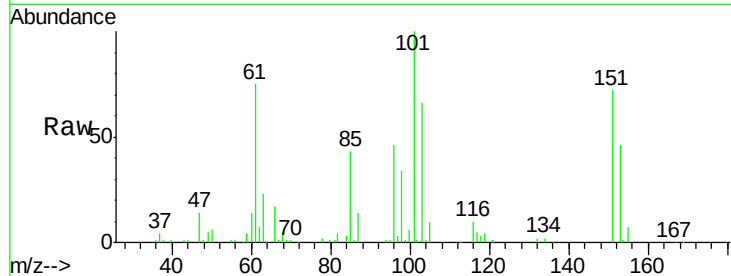
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	382887
Ion Ratio	Lower	Upper	
101	100		
85	42.8	32.4	48.6
151	72.1	59.4	89.0

Manual Integrations
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#10

Methyl Iodide

Concen: 45.599 ug/l

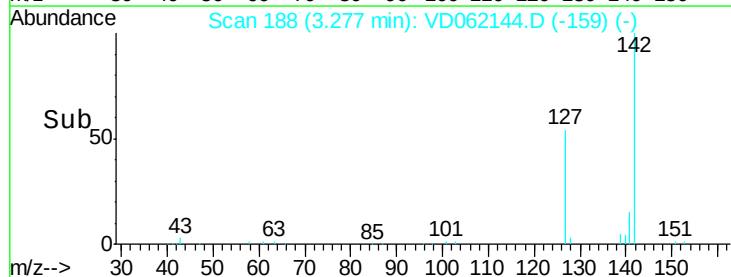
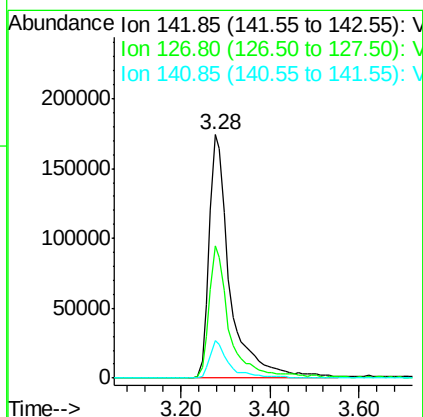
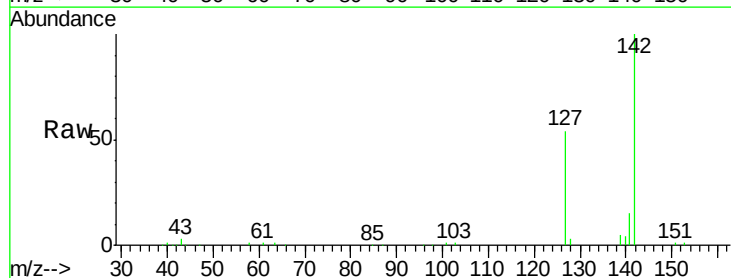
RT: 3.28 min Scan# 188

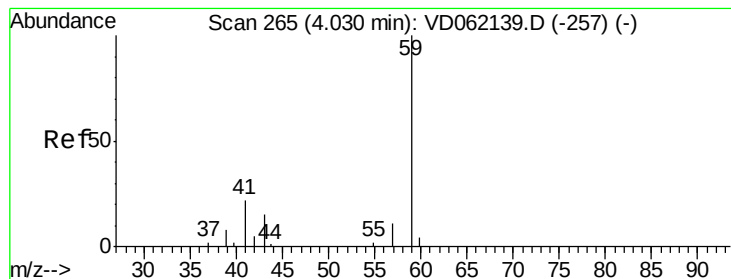
Delta R.T. -0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion:	142	Resp:	569415
Ion Ratio	Lower	Upper	
142	100		
127	54.4	38.8	58.2
141	15.2	11.4	17.0





#11

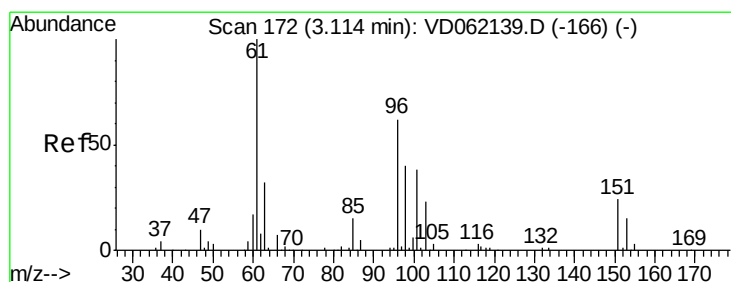
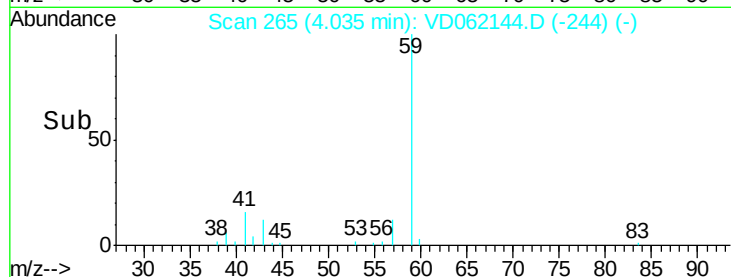
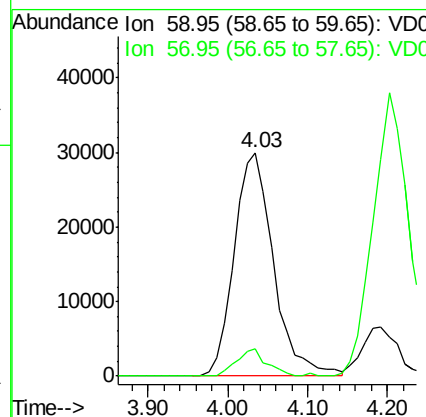
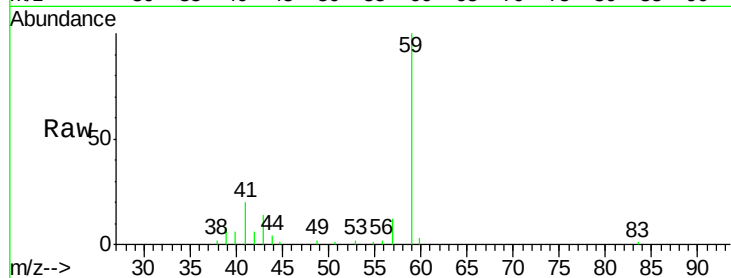
Tert butyl alcohol
 Concen: 261.810 ug/l
 RT: 4.03 min Scan# 265
 Delta R.T. 0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 59 Resp: 102730
 Ion Ratio Lower Upper
 59 100
 57 12.0 6.9 10.3#

Manual Integrations
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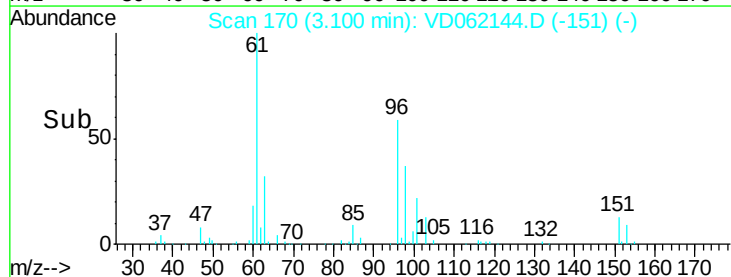
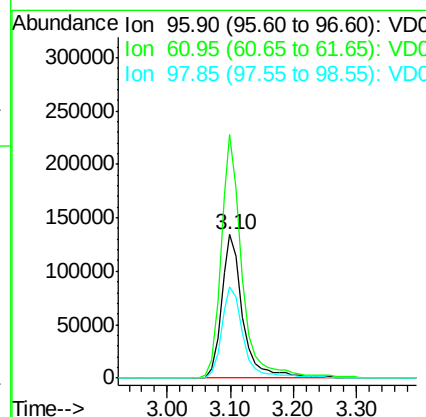
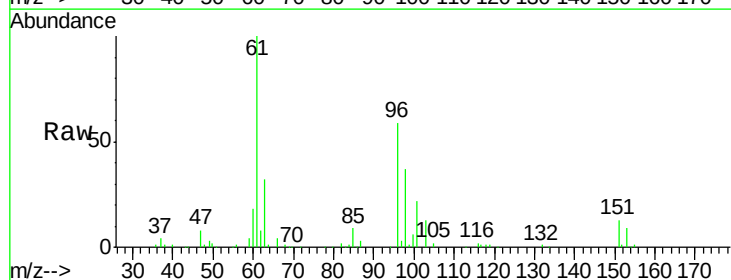
MMDadoda
 5/9/2019 12:56:37 AM

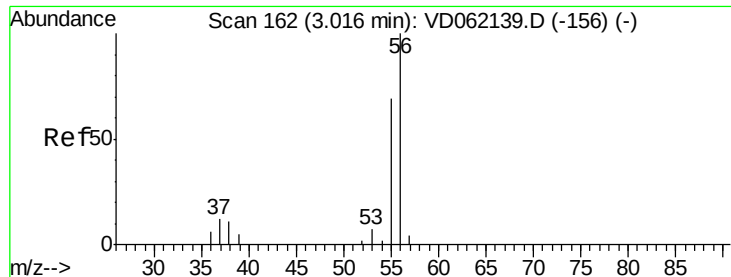


#12

1,1-Dichloroethene
 Concen: 50.599 ug/l
 RT: 3.10 min Scan# 170
 Delta R.T. -0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Tgt Ion: 96 Resp: 319135
 Ion Ratio Lower Upper
 96 100
 61 169.5 129.8 194.8
 98 63.3 51.2 76.8





#13

Acrolein

Concen: 251.232 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 101961

Ion Ratio Lower Upper

56 100

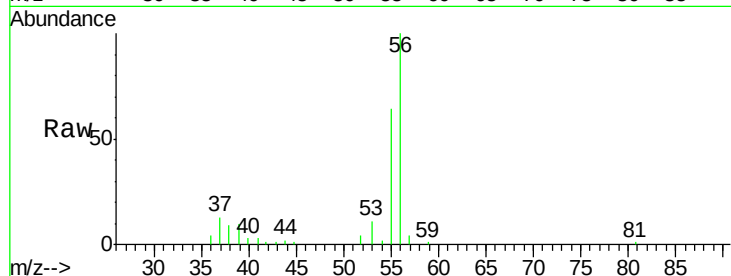
55 64.2 51.4 77.2

Manual Integrations

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.01

50000

40000

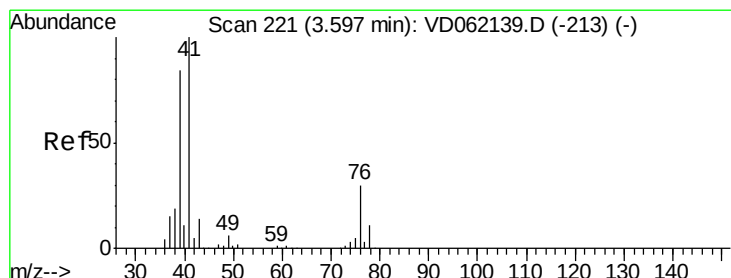
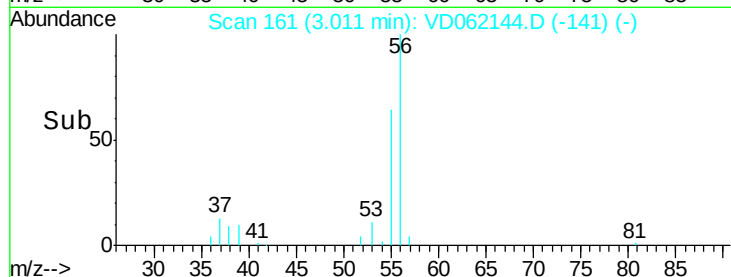
30000

20000

10000

0

Time-->



#14

Allyl chloride

Concen: 45.657 ug/l

RT: 3.59 min Scan# 220

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

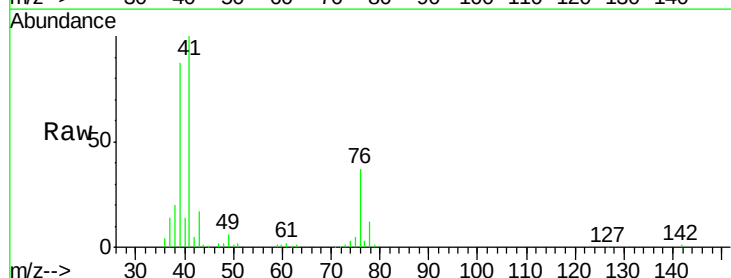
Tgt Ion: 41 Resp: 418692

Ion Ratio Lower Upper

41 100

39 86.5 60.5 90.7

76 36.9 31.8 47.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.59

200000

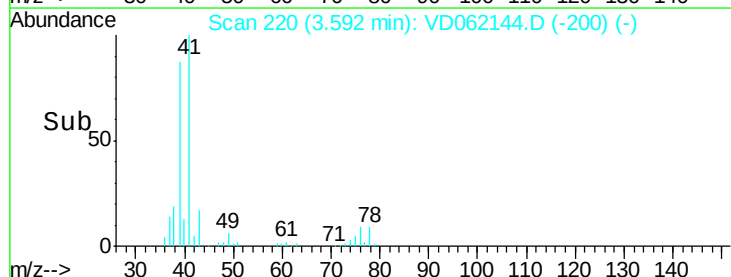
150000

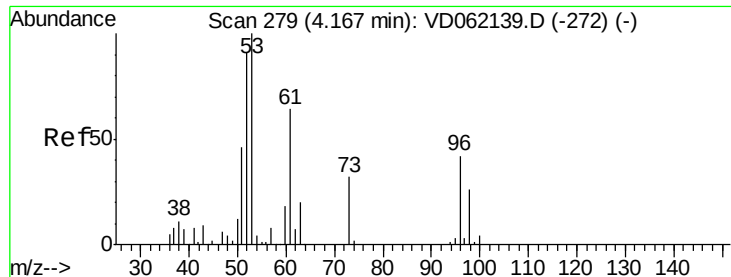
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 250.850 ug/l

RT: 4.16 min Scan# 278

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

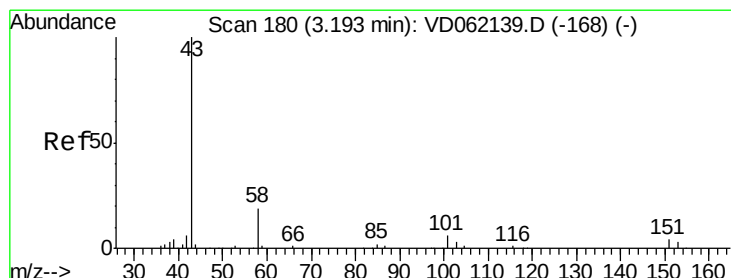
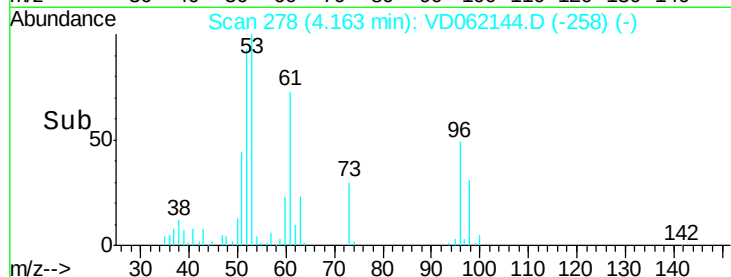
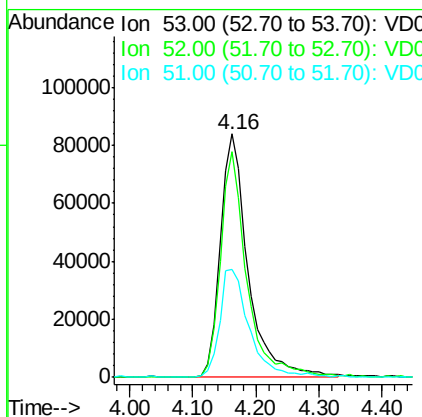
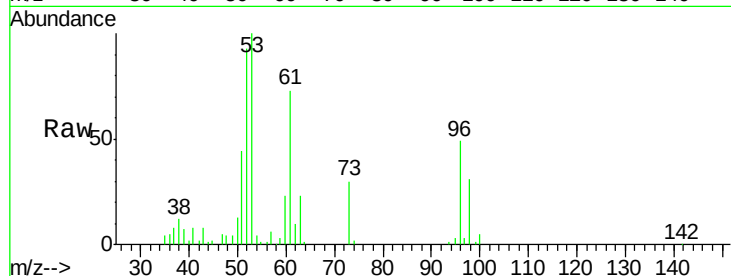
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	258717
Ion Ratio	Lower	Upper	
53	100		
52	92.9	65.0	97.4
51	44.3	32.6	48.8

Manual Integrations
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5/9/2019 12:56:37 AM



#16

Acetone

Concen: 221.868 ug/l

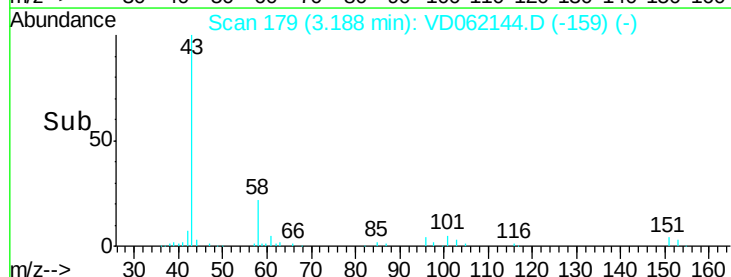
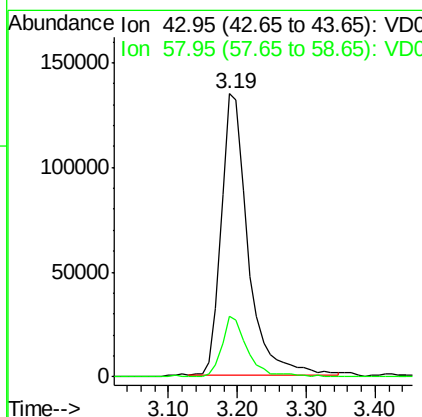
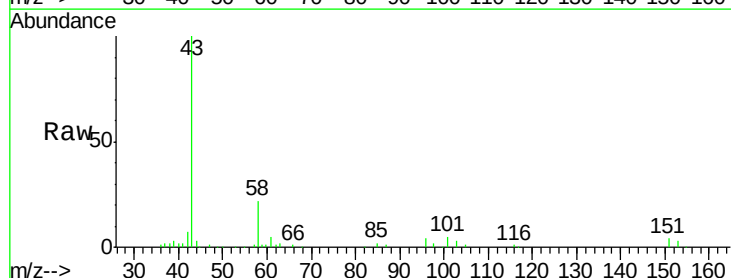
RT: 3.19 min Scan# 179

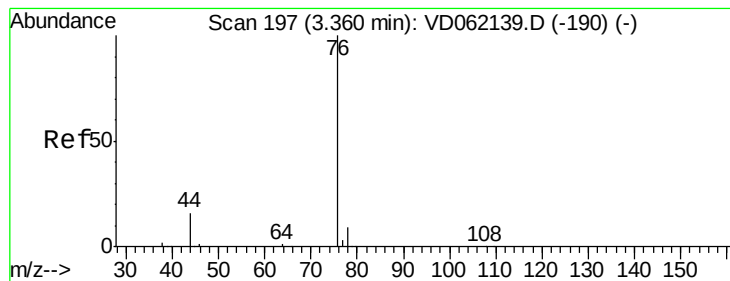
Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion:	43	Resp:	357665
Ion Ratio	Lower	Upper	
43	100		
58	21.5	19.9	29.9





#17

Carbon Disulfide

Concen: 52.602 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 954393

Ion Ratio Lower Upper

76 100

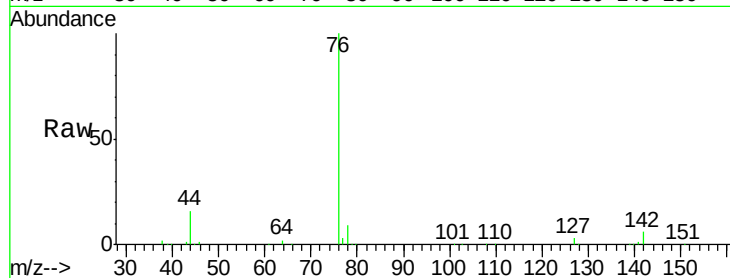
78 9.1 7.2 10.8

Manual Integrations

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5/9/2019 12:56:37 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.36

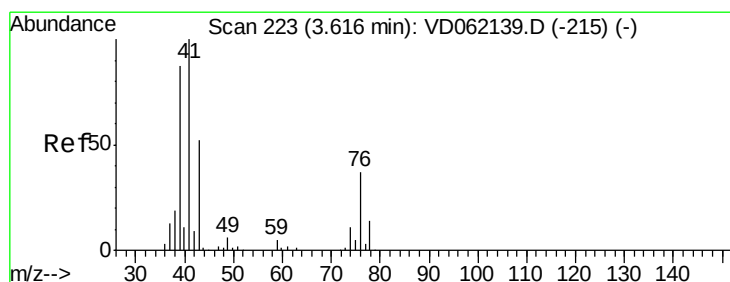
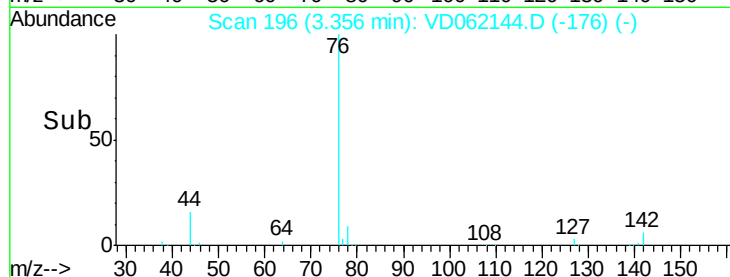
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 51.782 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.00 min

Lab File: VD062144.D

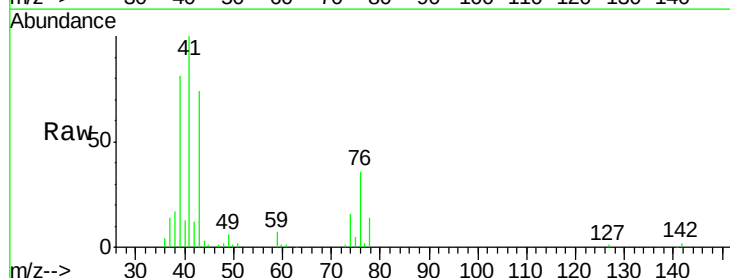
Acq: 7 May 2019 20:24

Tgt Ion: 43 Resp: 149263

Ion Ratio Lower Upper

43 100

74 21.0 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.61

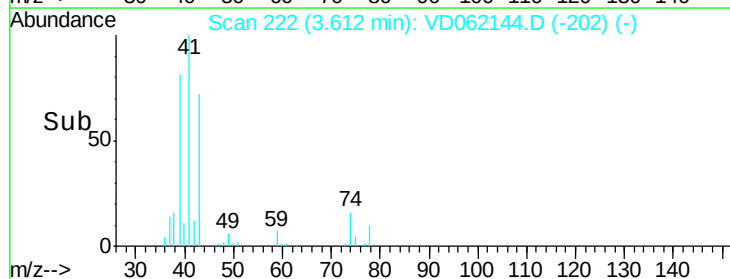
60000

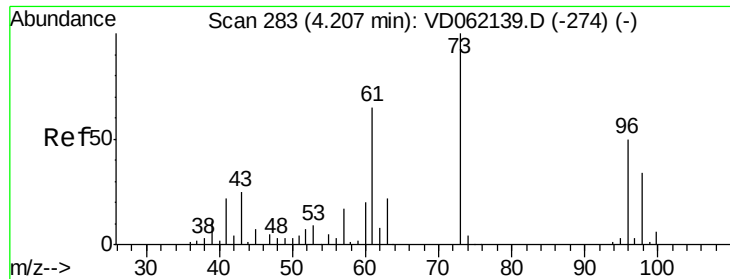
40000

20000

0

Time-->





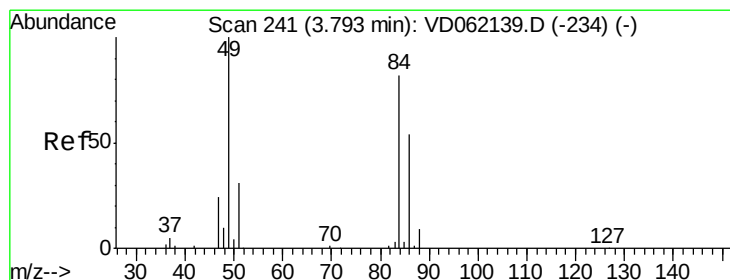
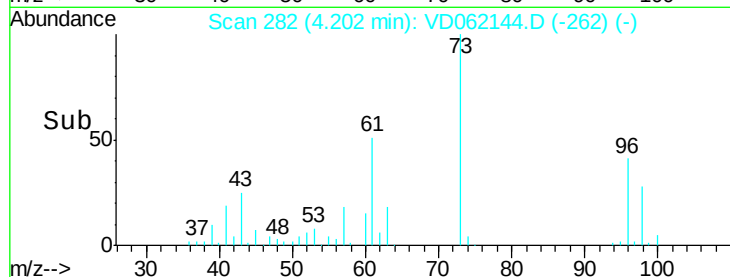
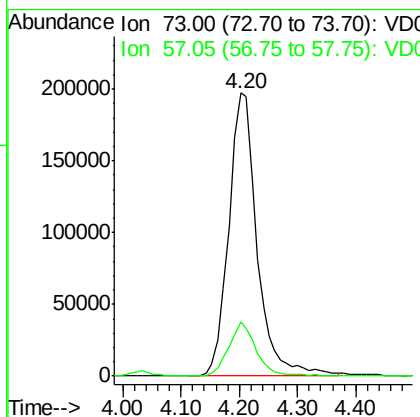
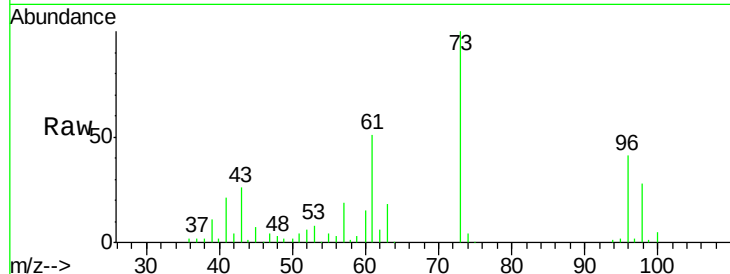
#19
Methyl tert-butyl Ether
Concen: 49.474 ug/l
RT: 4.20 min Scan# 282
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 668831
Ion Ratio Lower Upper
73 100
57 19.3 16.3 24.5

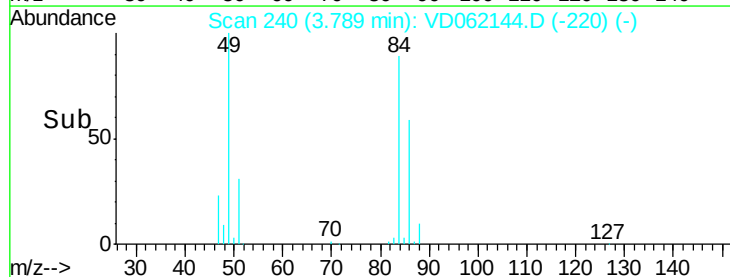
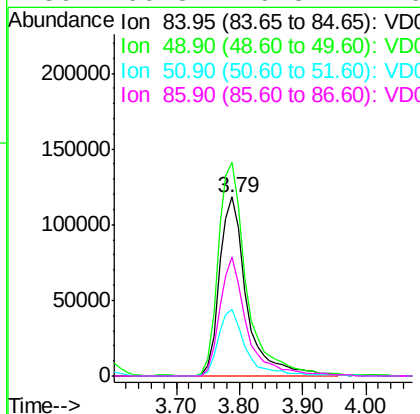
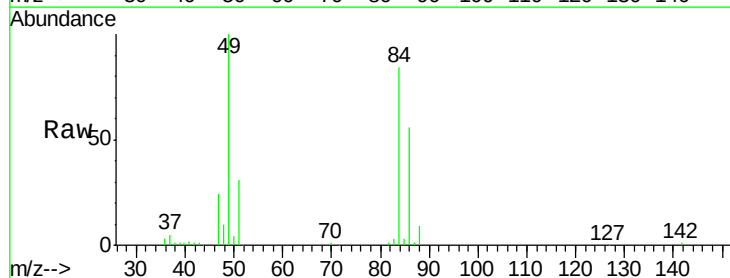
Manual Integrations
APPROVED

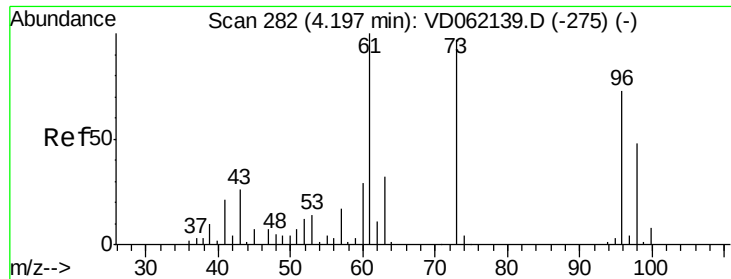
MMDadoda
5/9/2019 12:56:37 AM



#20
Methylene Chloride
Concen: 53.087 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion: 84 Resp: 357328
Ion Ratio Lower Upper
84 100
49 119.5 94.0 141.0
51 37.1 29.0 43.4
86 66.3 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 48.325 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 339162

Ion Ratio Lower Upper

96 100

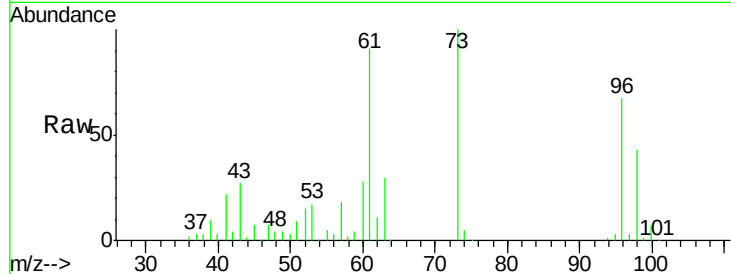
61 136.9 104.4 156.6

98 64.1 51.8 77.8

Manual Integrations
APPROVED

MMDadoda

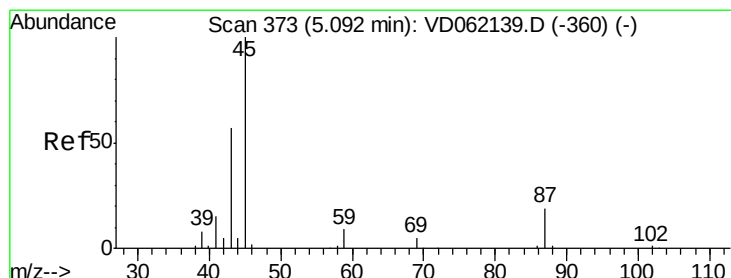
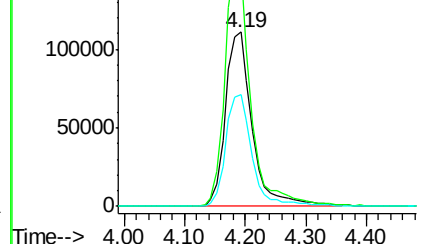
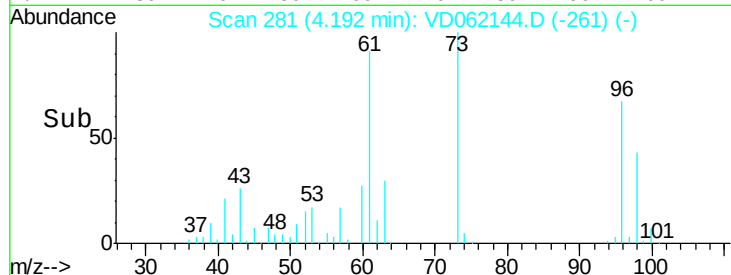
5/9/2019 12:56:37 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 47.754 ug/l

RT: 5.08 min Scan# 371

Delta R.T. -0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion: 45 Resp: 931913

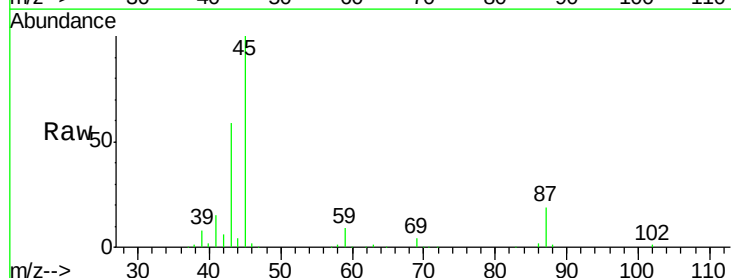
Ion Ratio Lower Upper

45 100

43 58.6 46.2 69.2

87 19.4 15.9 23.9

59 9.0 7.9 11.9

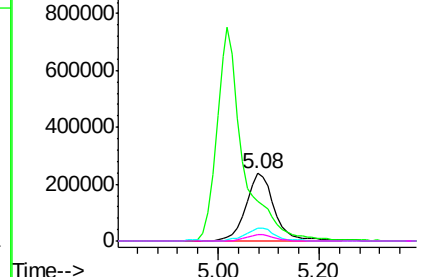
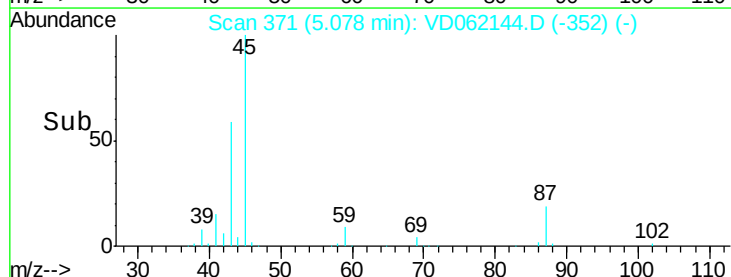


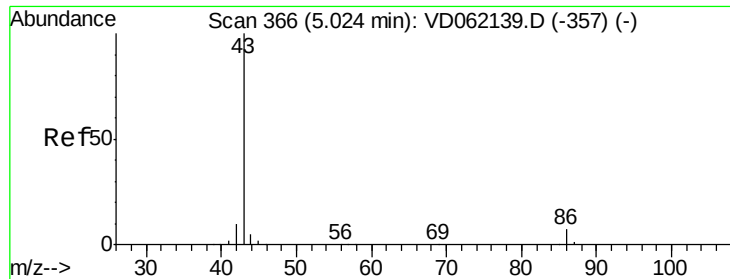
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





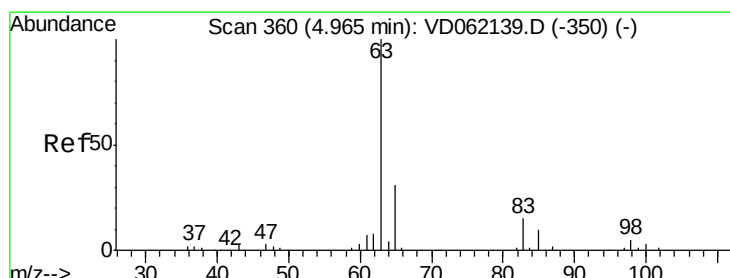
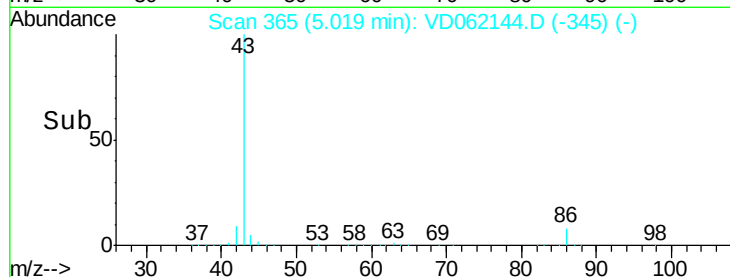
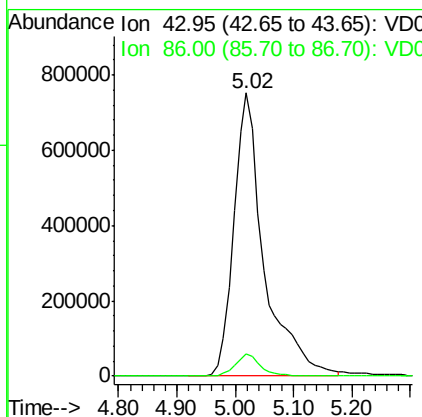
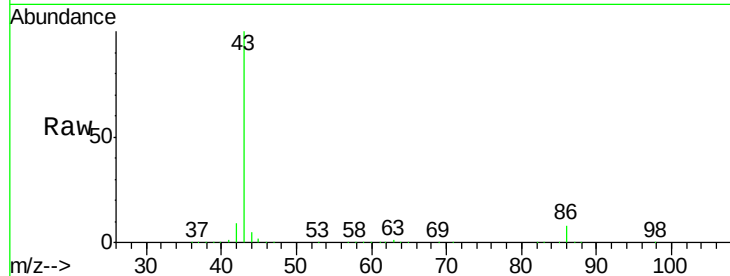
#23
Vinyl Acetate
Concen: 263.288 ug/l
RT: 5.02 min Scan# 365
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2710842
Ion Ratio Lower Upper
43 100
86 7.6 6.4 9.6

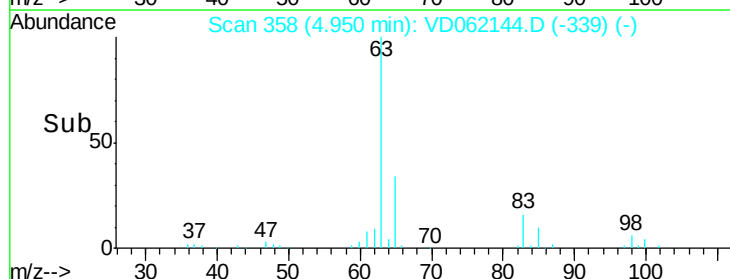
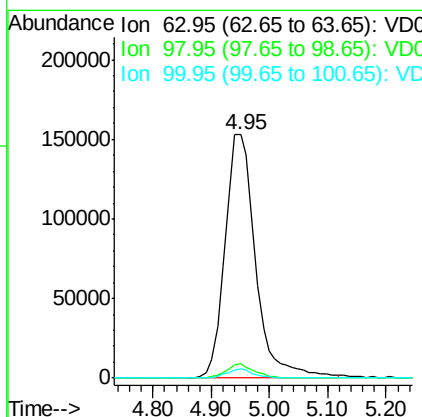
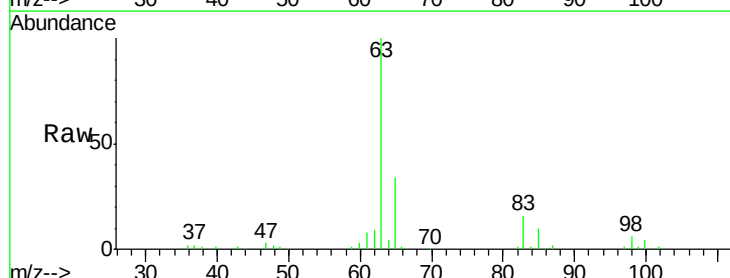
Manual Integrations
APPROVED

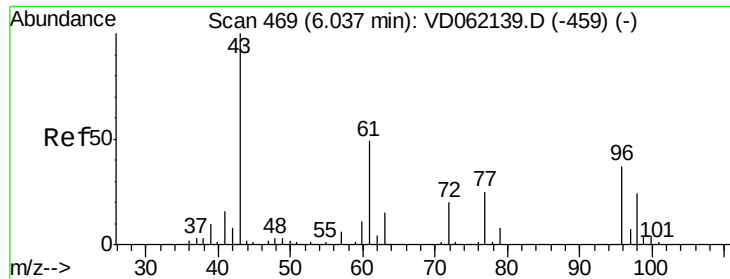
MMDadoda
5/9/2019 12:56:37 AM



#24
1,1-Dichloroethane
Concen: 47.433 ug/l
RT: 4.95 min Scan# 358
Delta R.T. -0.01 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion: 63 Resp: 558399
Ion Ratio Lower Upper
63 100
98 5.8 2.8 8.4
100 3.9 1.8 5.5





#25

2-Butanone

Concen: 256.298 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 450666

Ion Ratio Lower Upper

43 100

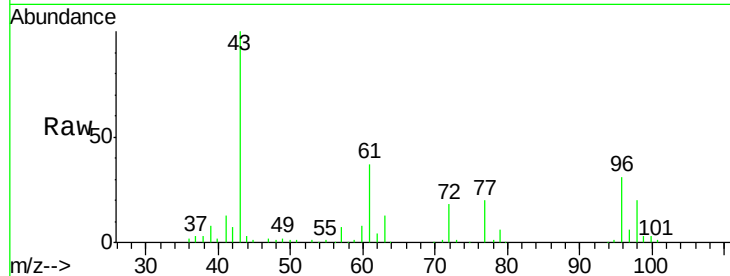
72 18.0 16.2 24.4

Manual Integrations

APPROVED

MMDadoda

5/9/2019 12:56:37 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.03

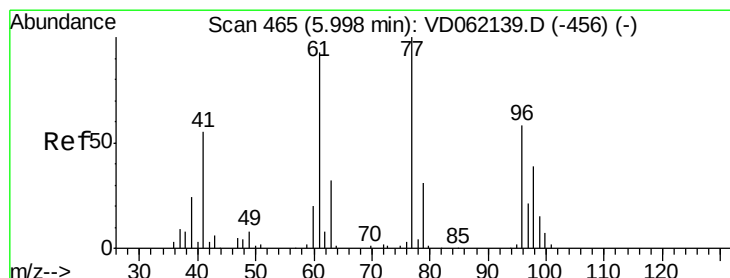
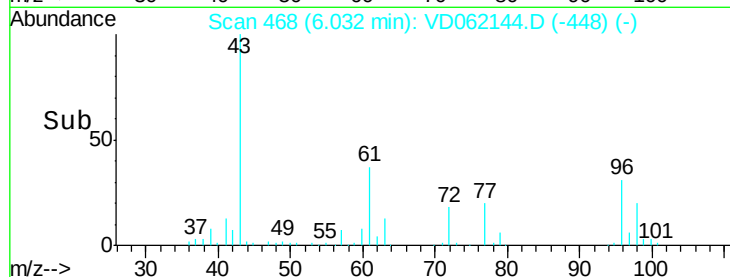
150000

100000

50000

0

Time--> 5.90 6.00 6.10



#26

2,2-Dichloropropane

Concen: 44.548 ug/l

RT: 5.99 min Scan# 464

Delta R.T. -0.00 min

Lab File: VD062144.D

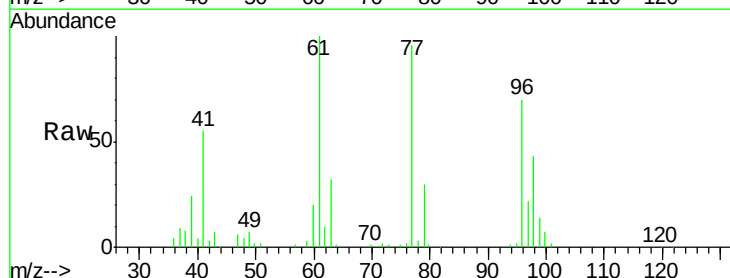
Acq: 7 May 2019 20:24

Tgt Ion: 77 Resp: 522404

Ion Ratio Lower Upper

77 100

97 22.8 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

5.99

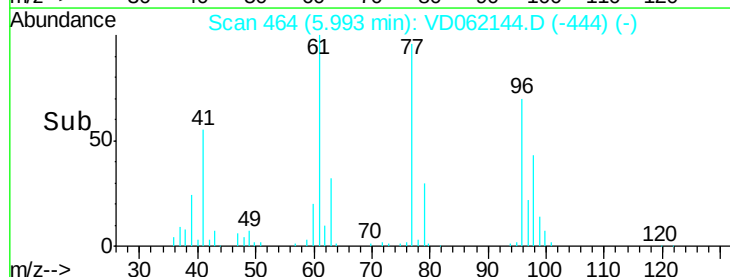
150000

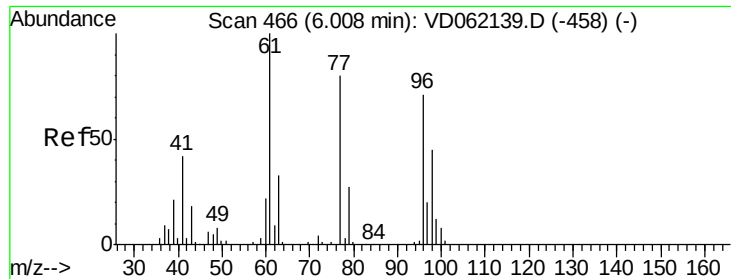
100000

50000

0

Time--> 5.80 5.90 6.00 6.10 6.20





#27

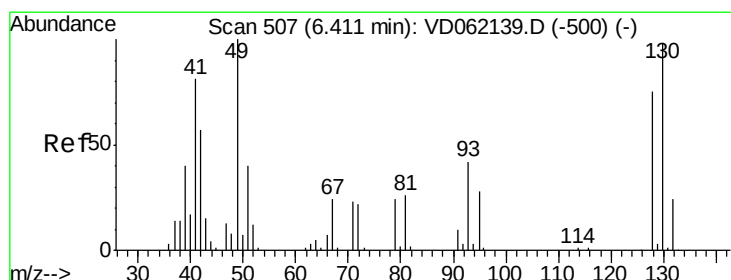
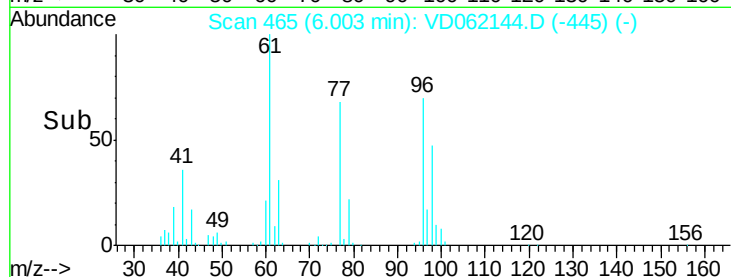
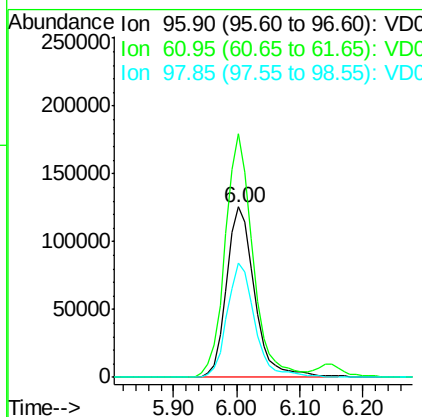
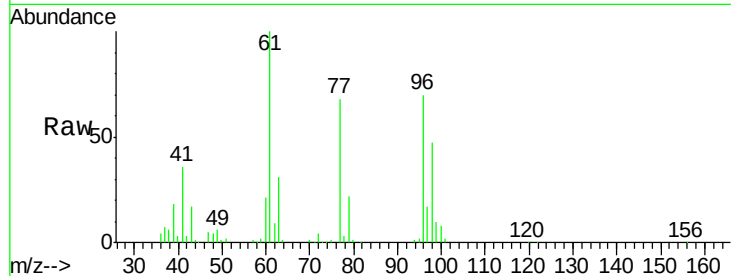
cis-1,2-Dichloroethene
Concen: 49.277 ug/l
RT: 6.00 min Scan# 465
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	387109		
61	143.0	0.0	279.8	
98	67.3	0.0	136.0	

Manual Integrations
APPROVED

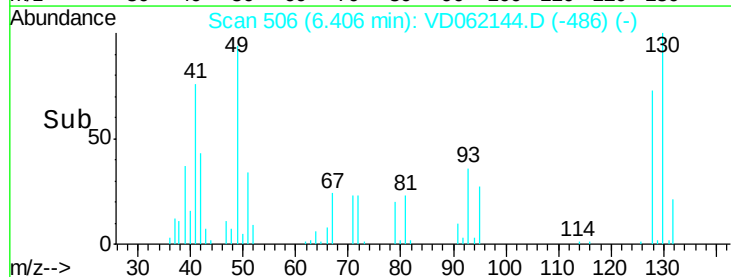
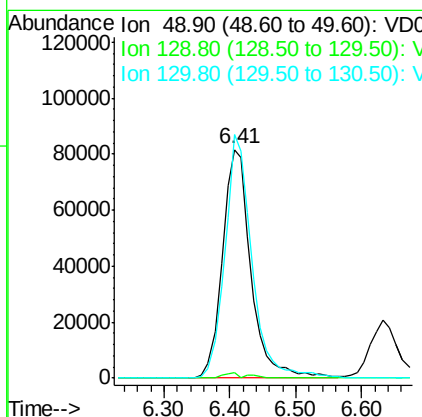
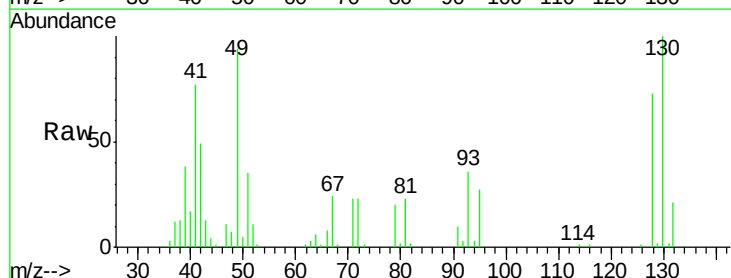
MMDadoda
5/9/2019 12:56:37 AM

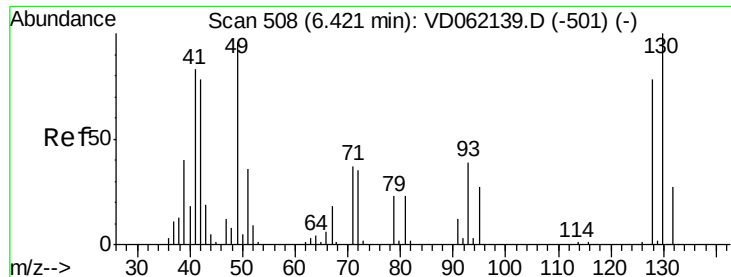


#28

Bromochloromethane
Concen: 53.259 ug/l
RT: 6.41 min Scan# 506
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	246679		
129	2.4	0.0	6.6	
130	106.5	86.7	130.1	





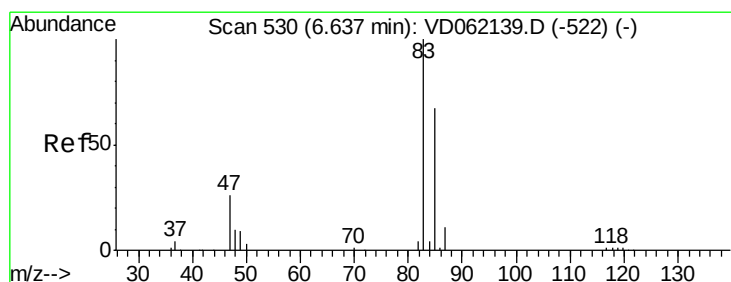
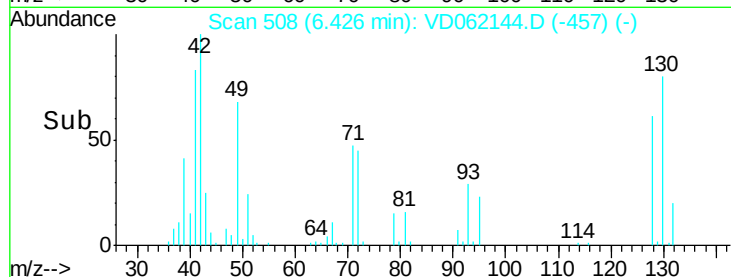
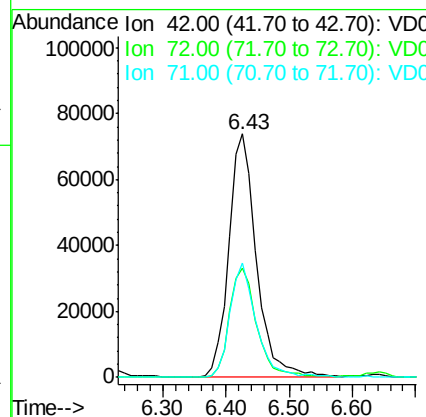
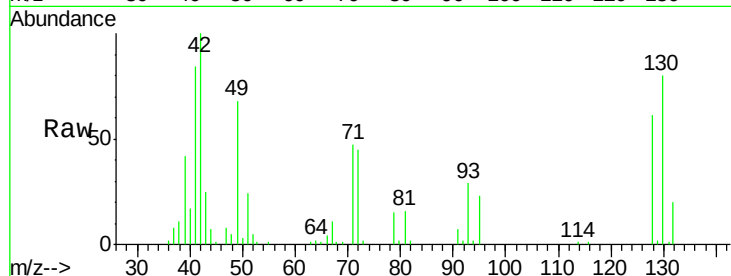
#29
Tetrahydrofuran
Concen: 276.075 ug/l
RT: 6.43 min Scan# 508
Delta R.T. 0.01 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleID :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	37.8	56.6
71	44.8	36.7	55.1

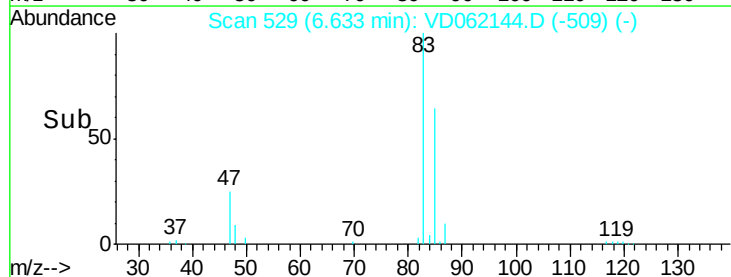
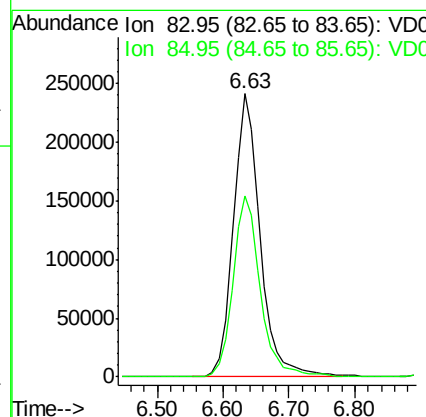
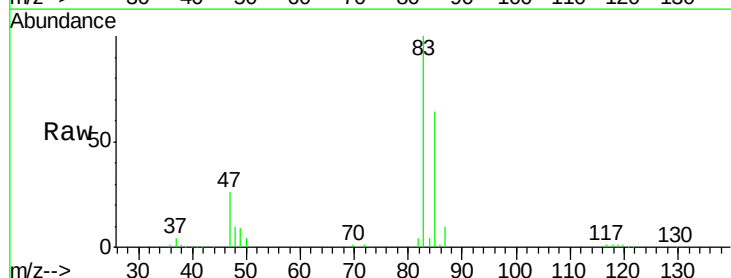
Manual Integrations
APPROVED

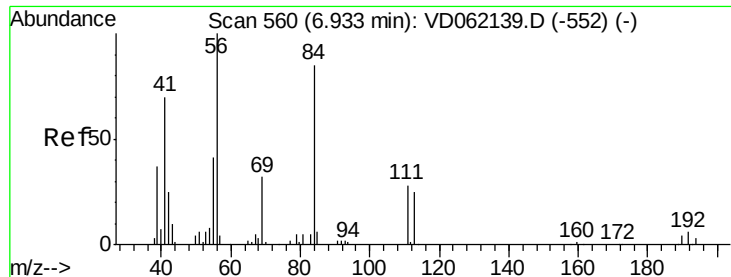
MMDadoda
5/9/2019 12:56:37 AM



#30
Chloroform
Concen: 48.367 ug/l
RT: 6.63 min Scan# 529
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.7	77.5





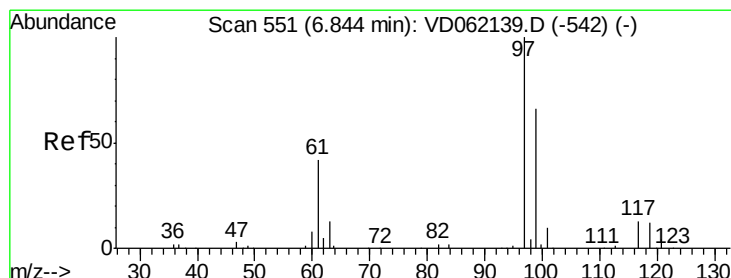
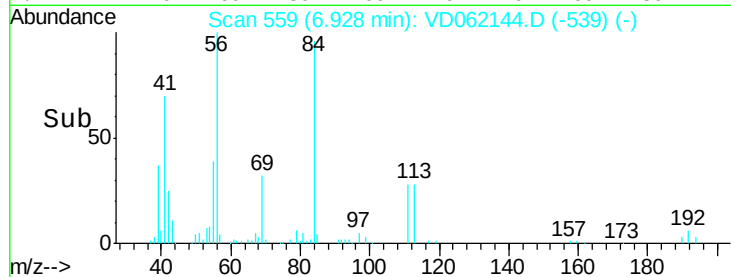
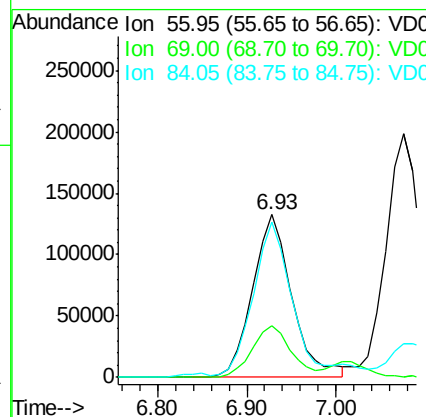
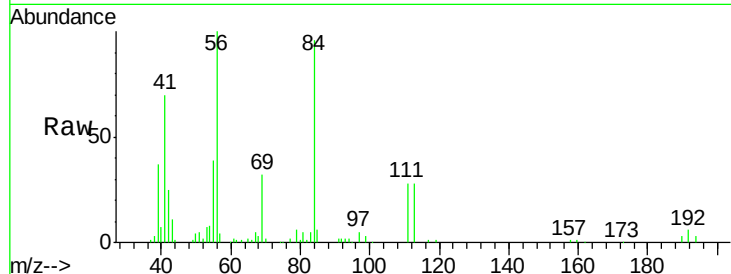
#31
Cyclohexane
Concen: 50.040 ug/l
RT: 6.93 min Scan# 559
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.1	25.8	38.6
84	95.5	72.2	108.4

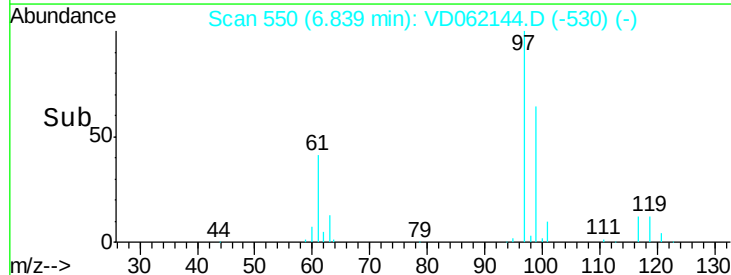
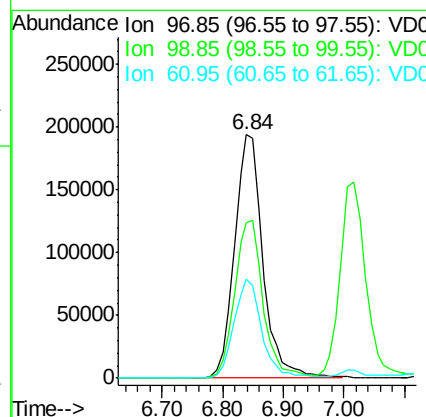
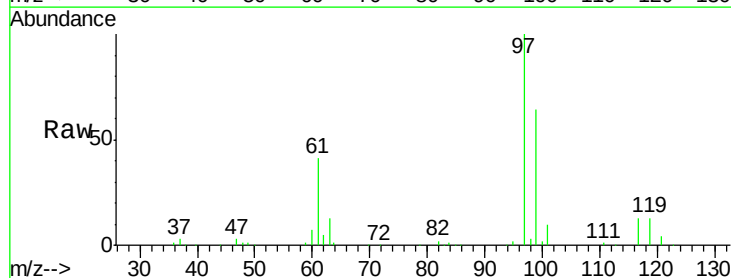
Manual Integrations
APPROVED

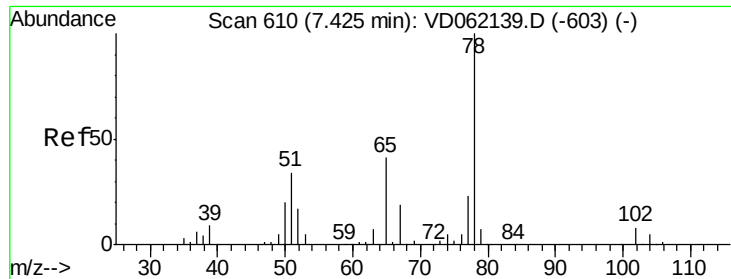
MMDadoda
5/9/2019 12:56:37 AM



#32
1,1,1-Trichloroethane
Concen: 46.930 ug/l
RT: 6.84 min Scan# 550
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	52.2	78.2
61	40.6	32.4	48.6





#33

1,2-Dichloroethane-d4

Concen: 47.629 ug/l

RT: 7.43 min Scan# 610

Delta R.T. 0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tot Ion: 65 Resp: 366130

Ion Ratio Lower Upper

65 100

67 48.6 0.0 98.0

Instrument :

MSVOA_D

ClientSampleId :

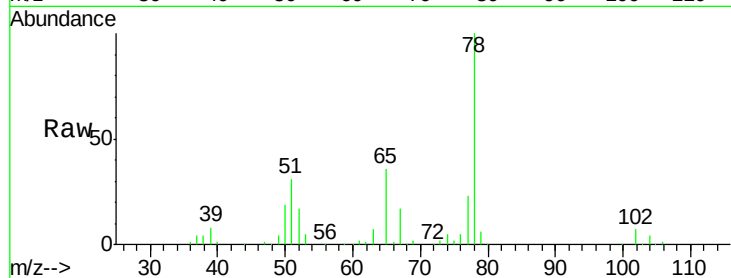
VSTDCCC050

Manual Integrations

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5/9/2019 12:56:37 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

150000

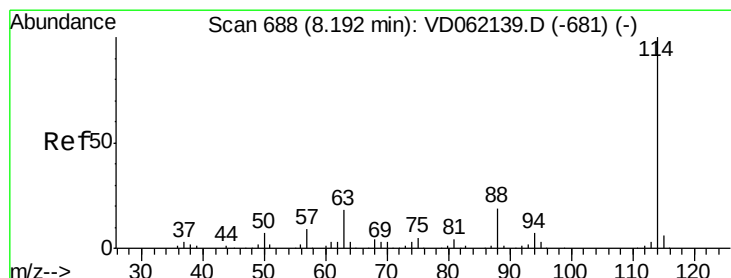
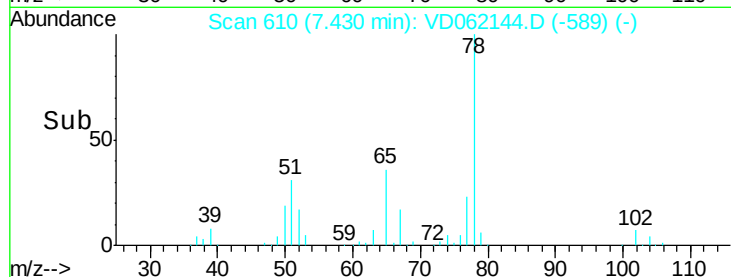
100000

50000

0

7.30 7.40 7.50

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 688

Delta R.T. 0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

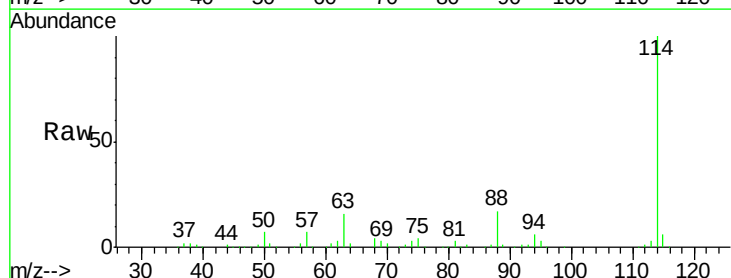
Tgt Ion: 114 Resp: 1191997

Ion Ratio Lower Upper

114 100

63 16.3 0.0 32.4

88 16.8 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

300000

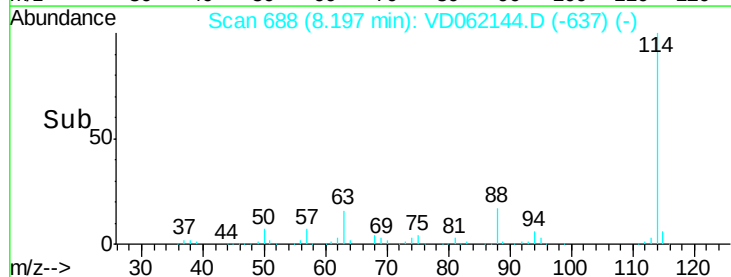
200000

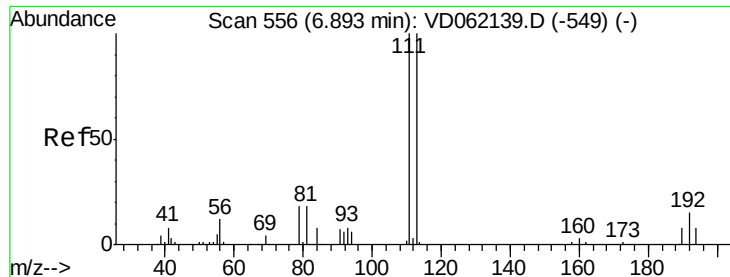
100000

0

8.00 8.20 8.40

Time-->





#35

Dibromofluoromethane

Concen: 48.102 ug/l

RT: 6.89 min Scan# 555

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:113 Resp: 475733

Ion Ratio Lower Upper

113 100

111 101.8 78.5 117.7

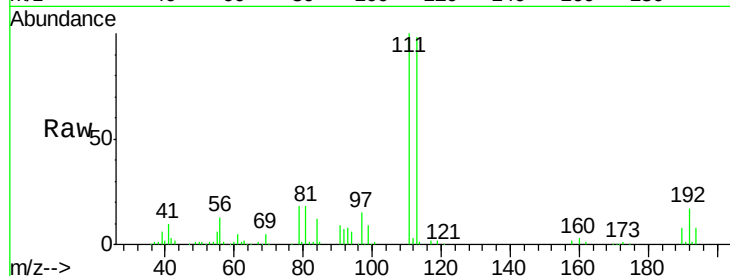
192 17.7 13.0 19.4

Manual Integrations

APPROVED

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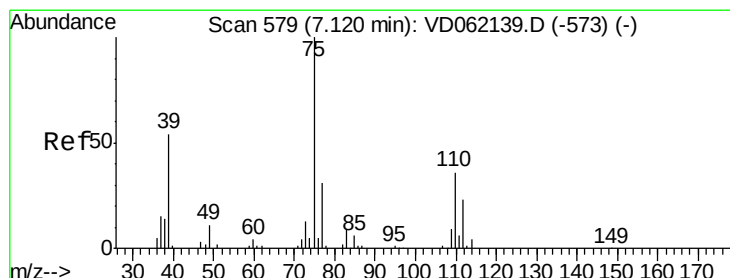
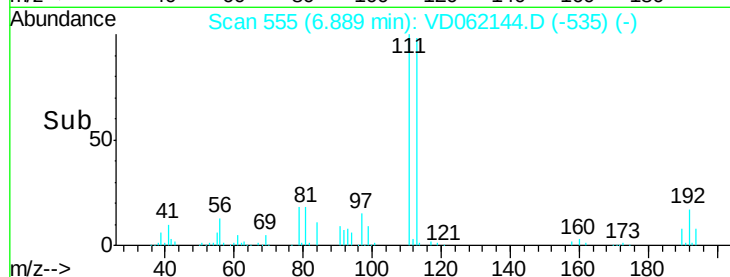
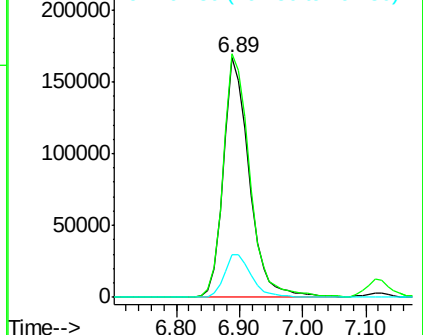
5/9/2019 12:56:37 AM



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 47.865 ug/l

RT: 7.11 min Scan# 578

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

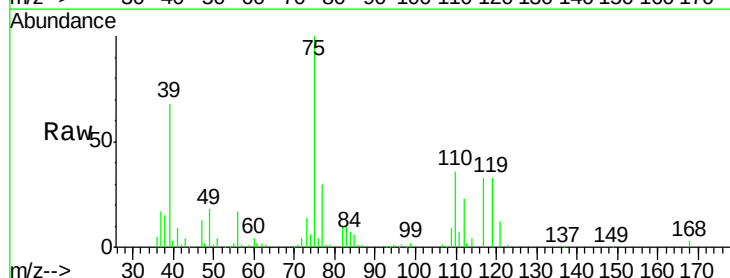
Tgt Ion: 75 Resp: 467798

Ion Ratio Lower Upper

75 100

110 35.9 19.1 57.1

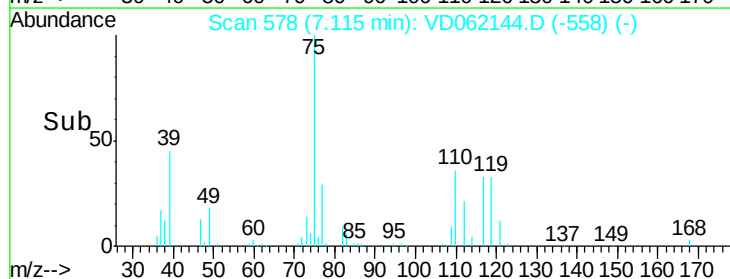
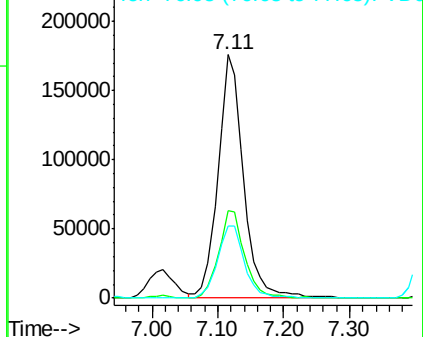
77 29.8 25.6 38.4

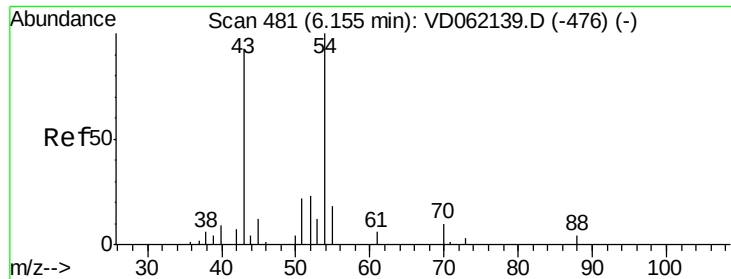


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





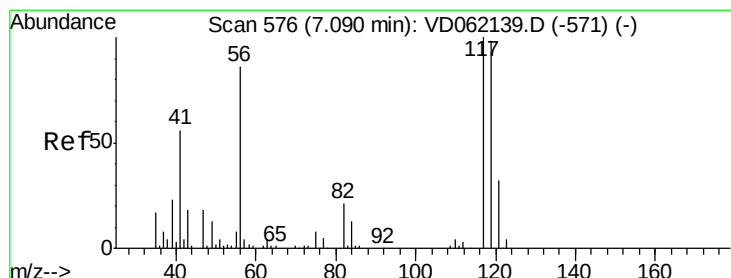
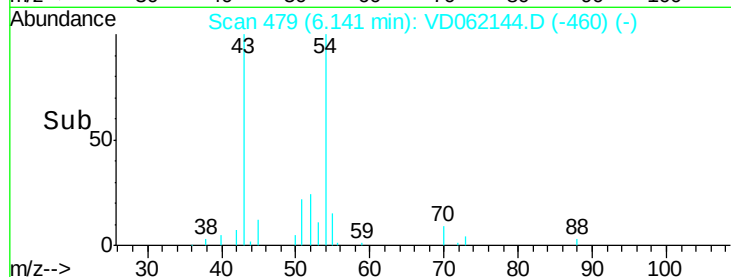
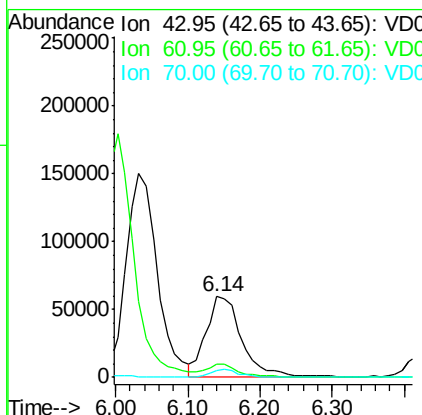
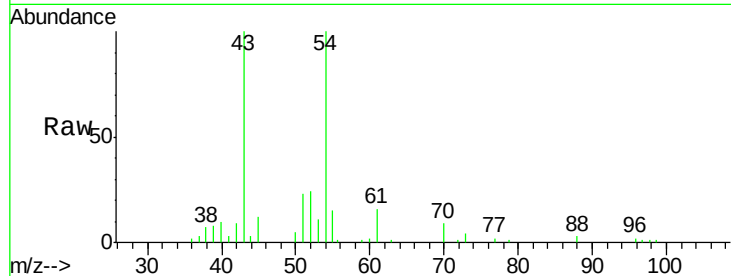
#37
Ethyl Acetate
Concen: 48.190 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.01 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.0	14.7	22.1
70	9.0	7.8	11.6

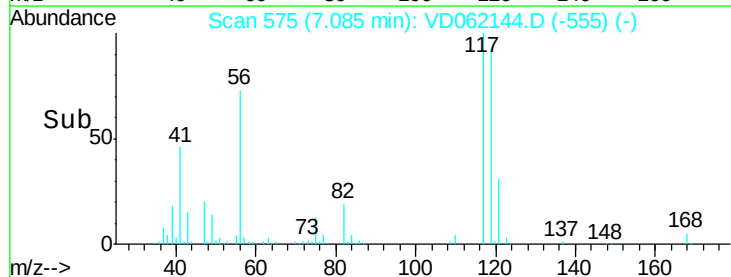
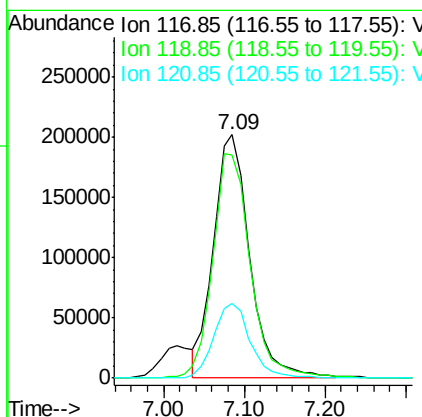
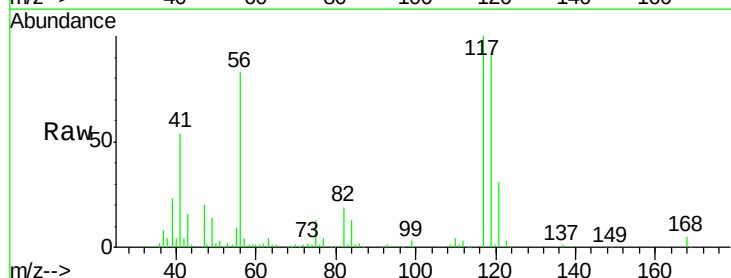
Manual Integrations
APPROVED

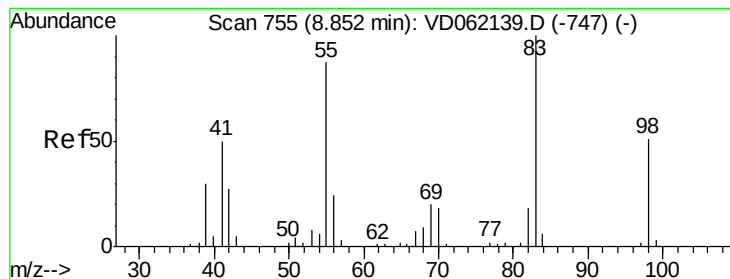
MMDadoda
5/9/2019 12:56:37 AM



#38
Carbon Tetrachloride
Concen: 46.736 ug/l m
RT: 7.09 min Scan# 575
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.9	75.8	113.8
121	30.6	25.9	38.9





#39

Methylvlcyclohexane

Concen: 48.422 ug/l

RT: 8.84 min Scan# 753

Delta R.T. -0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 453422

Ion Ratio Lower Upper

83 100

55 88.3 68.2 102.4

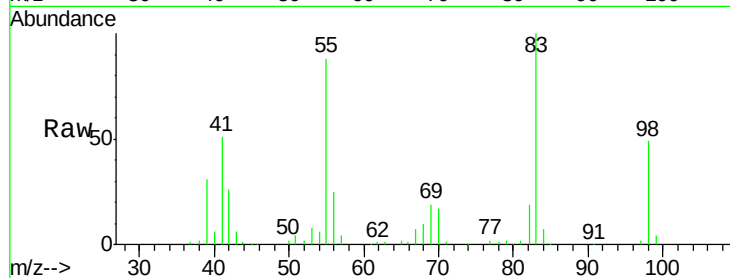
98 49.3 38.2 57.4

Manual Integrations

APPROVED

MMDadoda

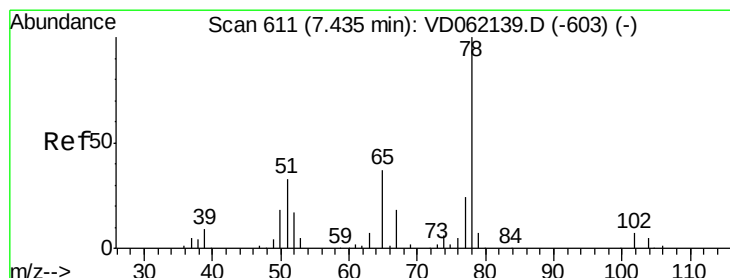
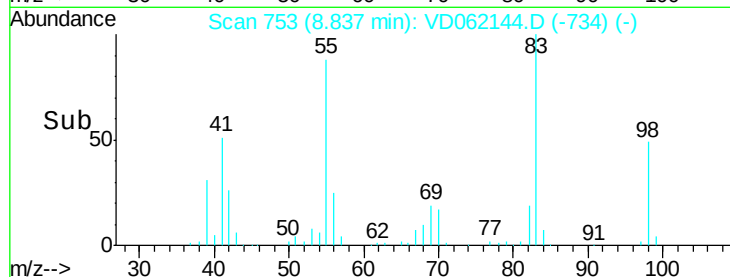
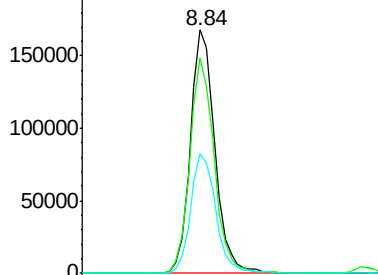
5/9/2019 12:56:37 AM



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 46.915 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.00 min

Lab File: VD062144.D

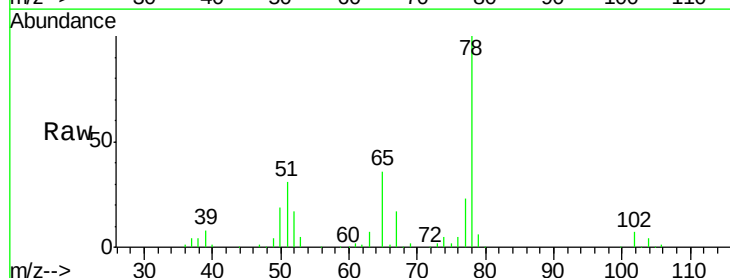
Acq: 7 May 2019 20:24

Tgt Ion: 78 Resp: 1035362

Ion Ratio Lower Upper

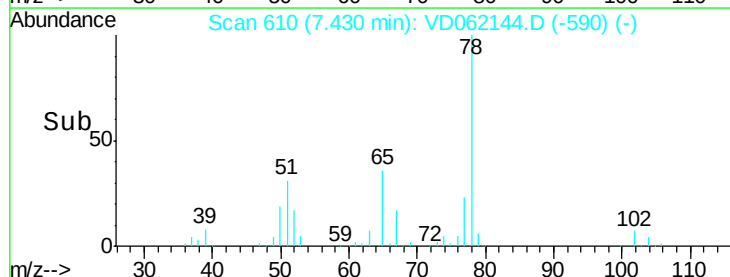
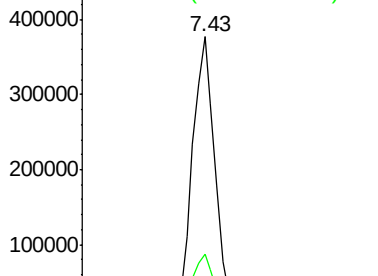
78 100

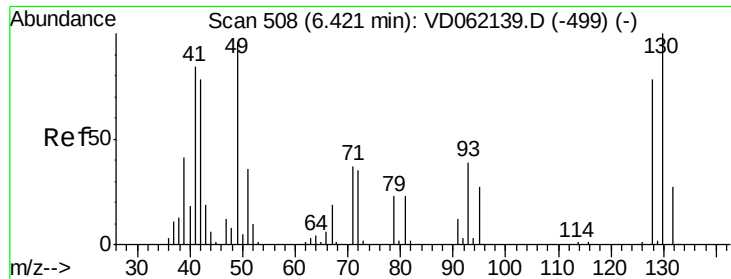
77 23.1 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





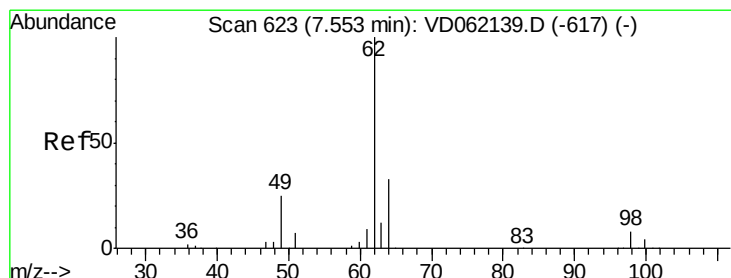
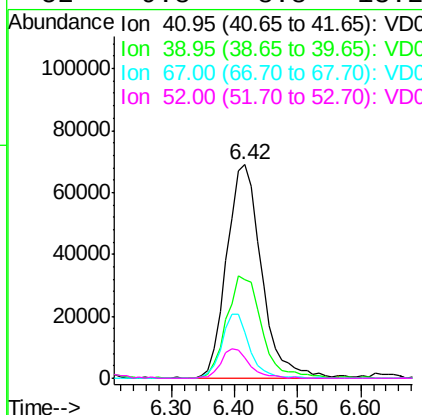
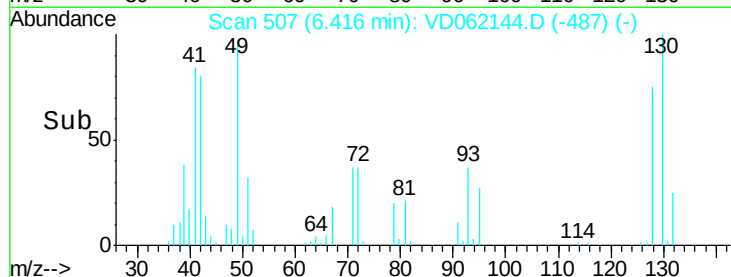
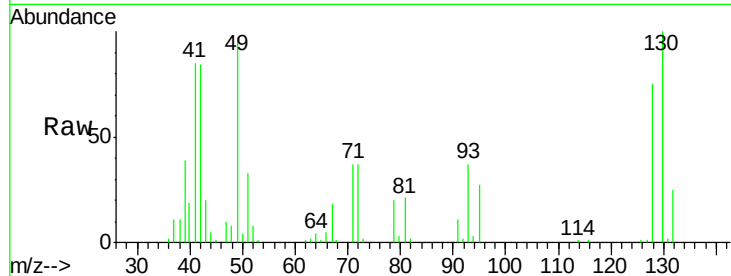
#41
Methacrylonitrile
Concen: 52.092 ug/l
RT: 6.42 min Scan# 507
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	46.4	34.1	51.1	
67	21.5	23.8	35.6	
52	9.8	8.8	13.2	

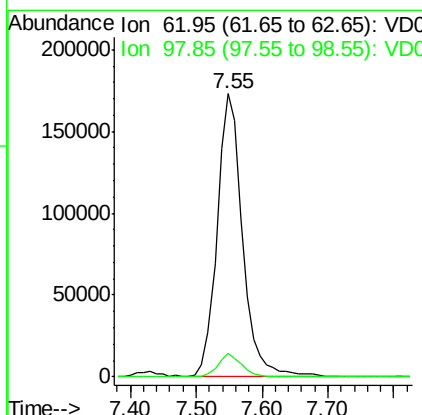
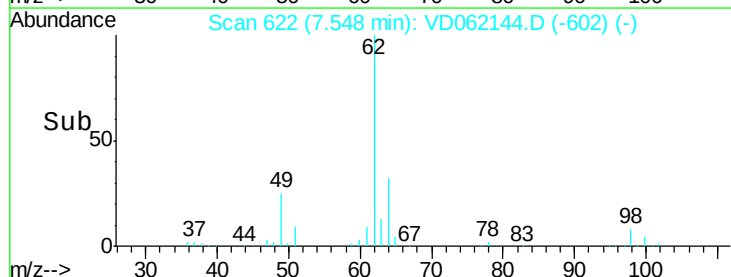
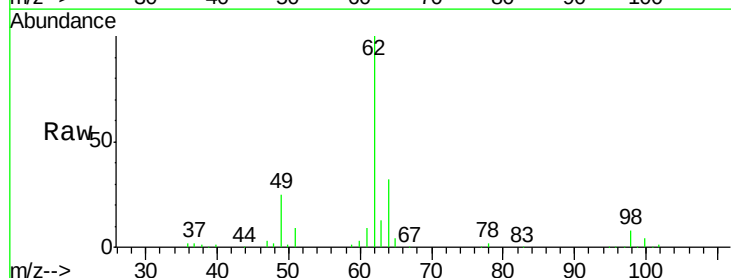
Manual Integrations
APPROVED

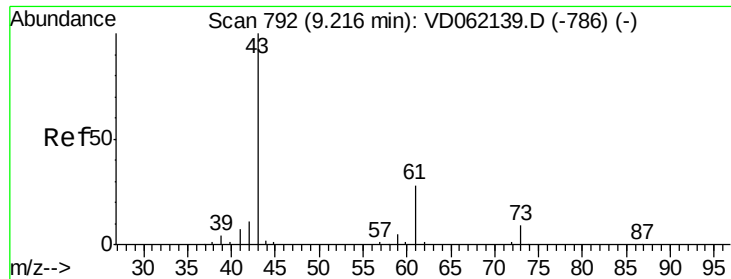
MMDadoda
5/9/2019 12:56:37 AM



#42
1,2-Dichloroethane
Concen: 49.574 ug/l
RT: 7.55 min Scan# 622
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
98	8.2	0.0	17.8	





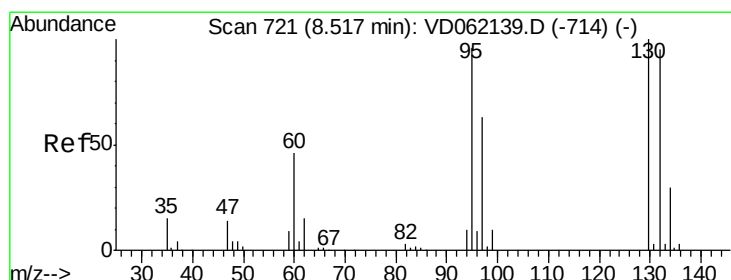
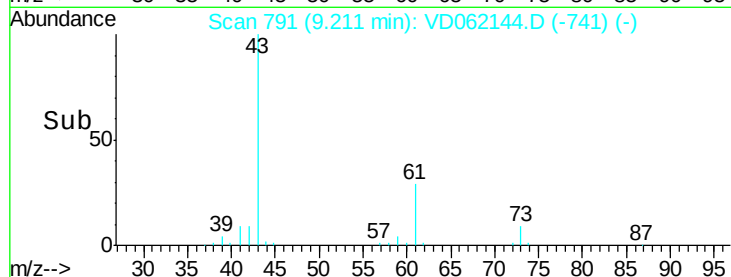
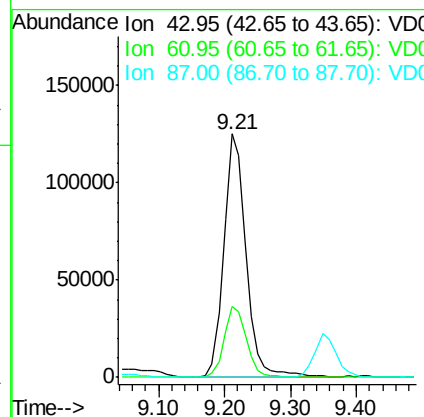
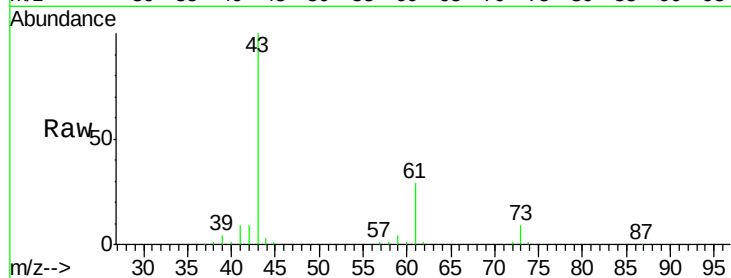
#43
Isopropyl Acetate
Concen: 50.236 ug/l
RT: 9.21 min Scan# 791
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.2	25.1	37.7
87	0.2	0.0	0.0

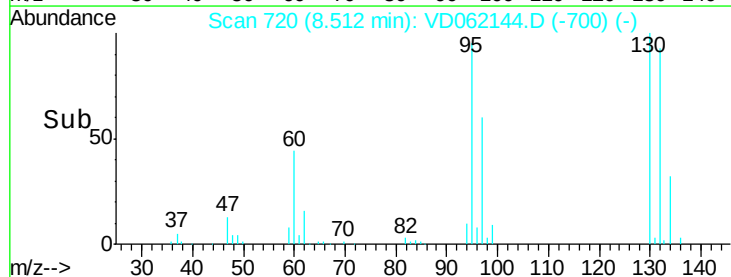
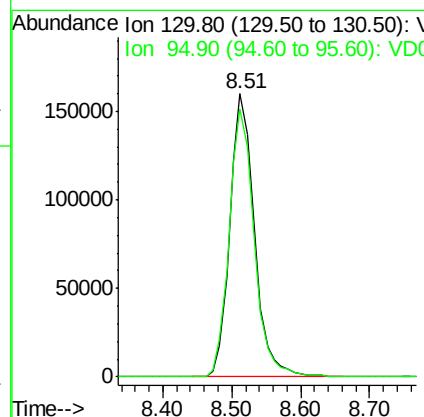
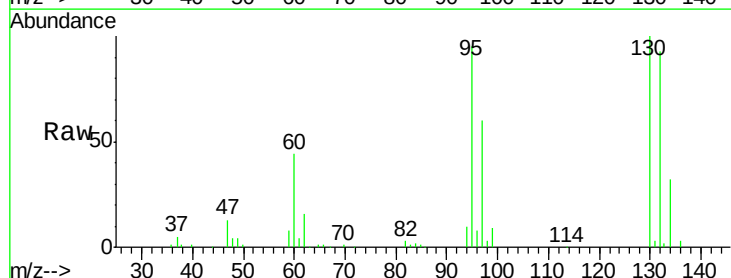
Manual Integrations
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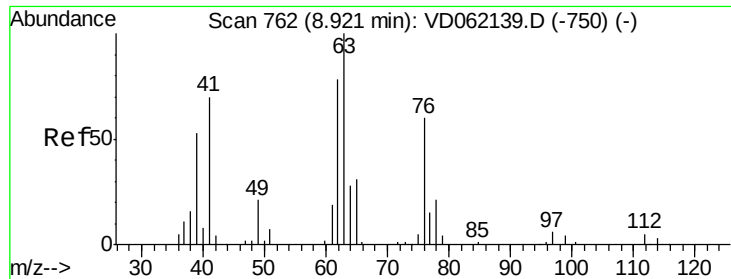
MMDadoda
5/9/2019 12:56:37 AM



#44
Trichloroethene
Concen: 47.031 ug/l
RT: 8.51 min Scan# 720
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	174.0





#45

1,2-Dichloropropane

Concen: 46.067 ug/l

RT: 8.92 min Scan# 761

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 251470

Ion Ratio Lower Upper

63 100

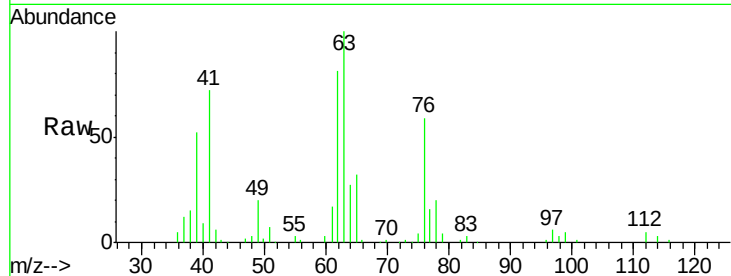
65 31.9 23.8 35.6

Manual Integrations

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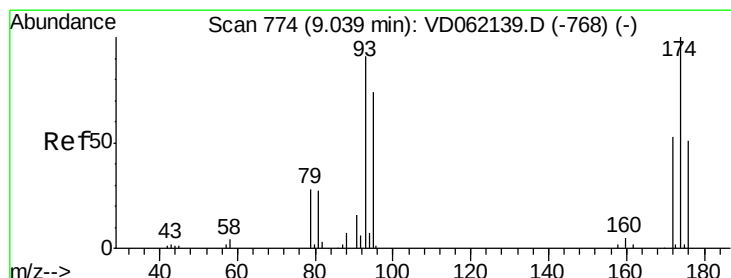
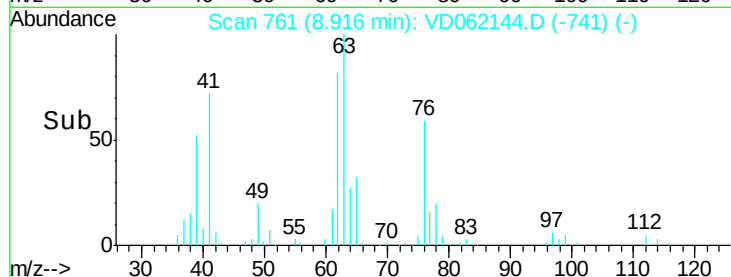
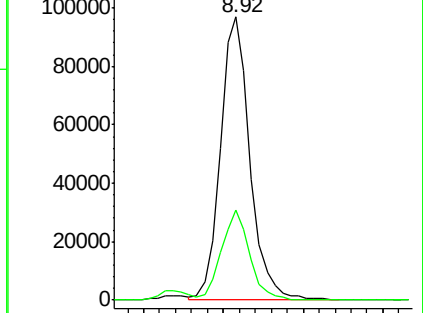
MMDadoda

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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 49.235 ug/l

RT: 9.03 min Scan# 773

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

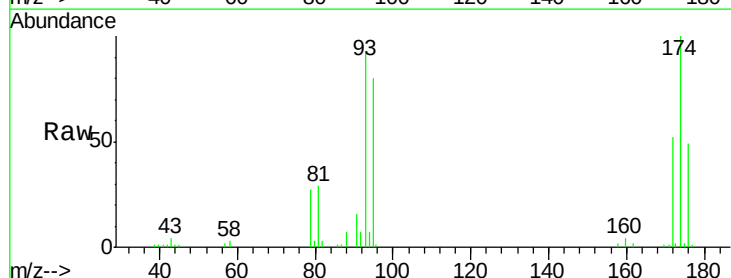
Tgt Ion: 93 Resp: 218557

Ion Ratio Lower Upper

93 100

95 86.5 64.8 97.2

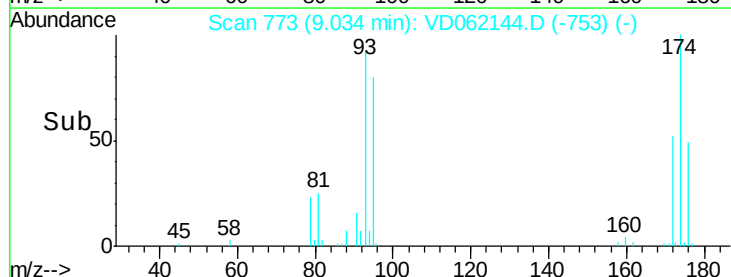
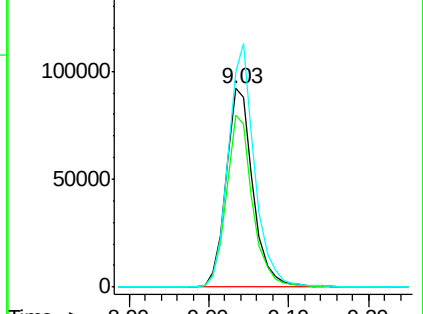
174 108.6 79.3 118.9

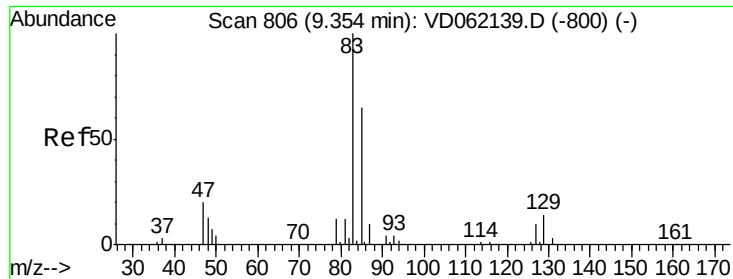


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 47.364 ug/l

RT: 9.35 min Scan# 805

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

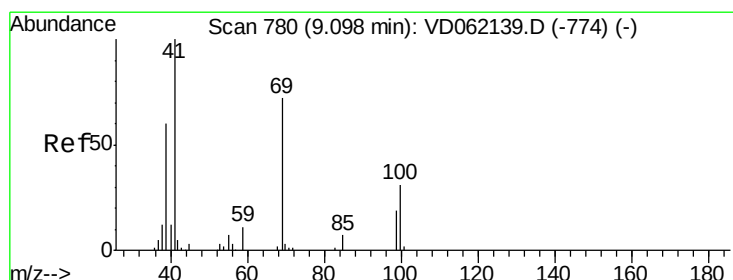
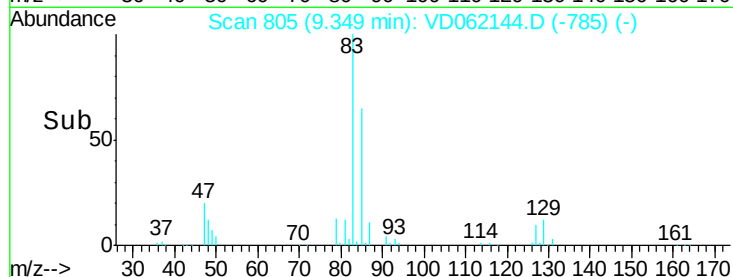
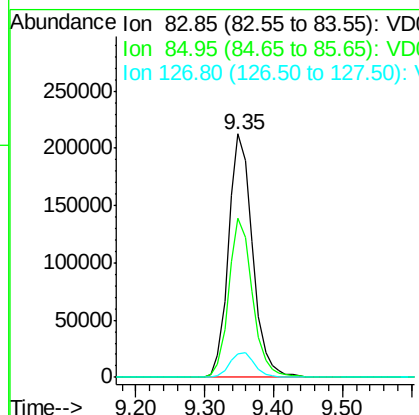
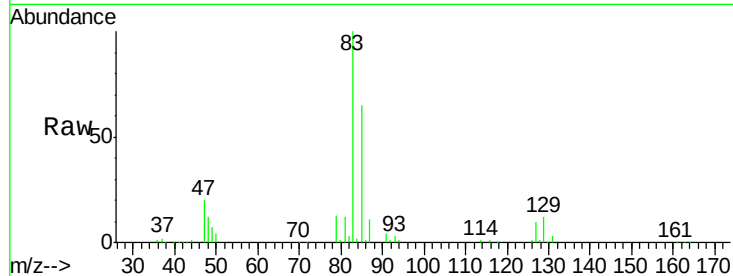
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	514283
Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.9	76.3
127	9.8	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 51.970 ug/l

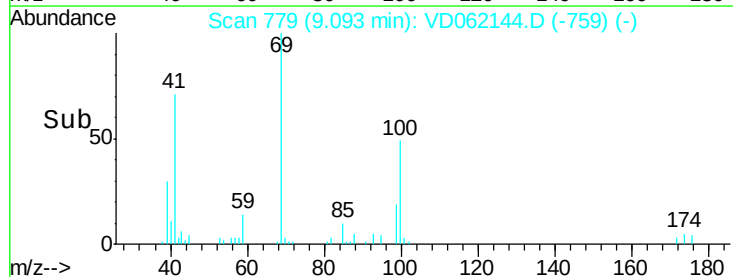
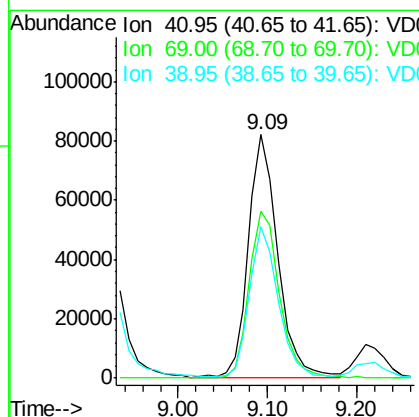
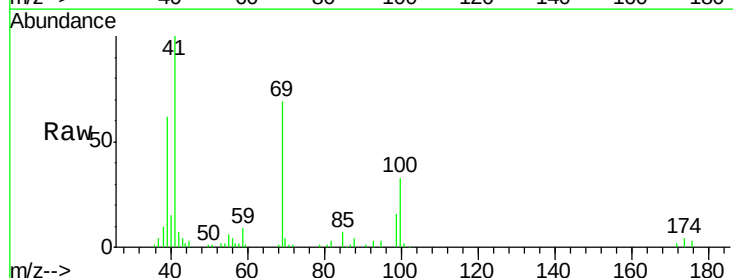
RT: 9.09 min Scan# 779

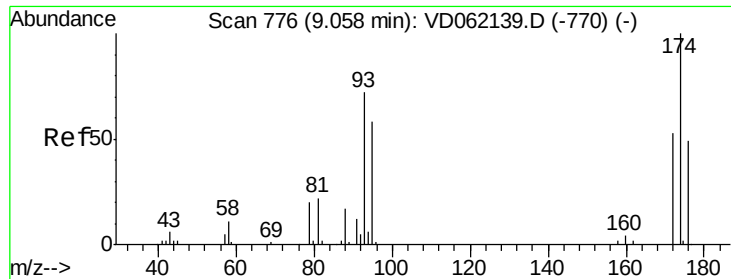
Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion:	41	Resp:	188168
Ion	Ratio	Lower	Upper
41	100		
69	68.7	64.2	96.2
39	62.3	46.8	70.2





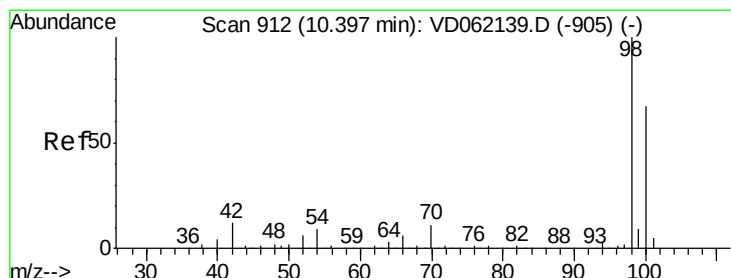
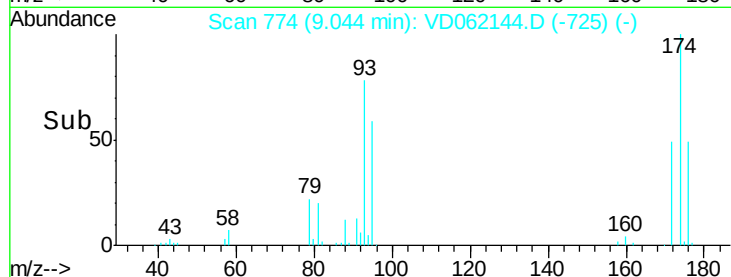
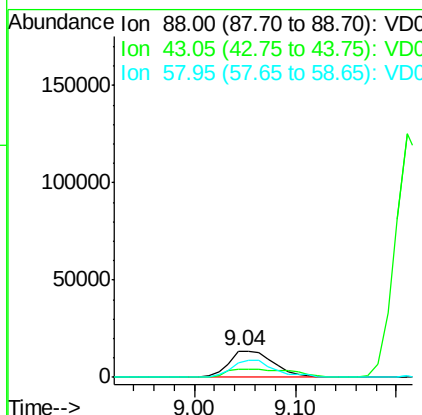
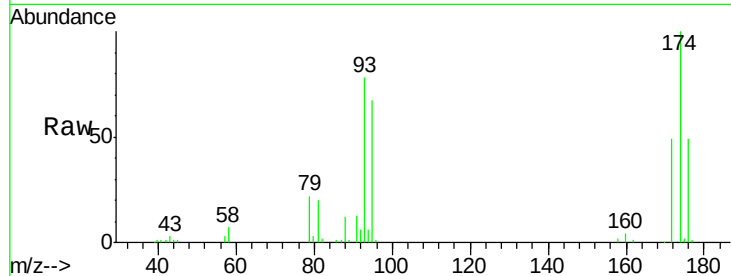
#49
1,4-Dioxane
Concen: 1051.085 ug/l
RT: 9.04 min Scan# 774
Delta R.T. -0.01 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	41061
Ion	Ratio	Lower	Upper
88	100		
43	29.0	23.4	35.0
58	55.5	44.0	66.0

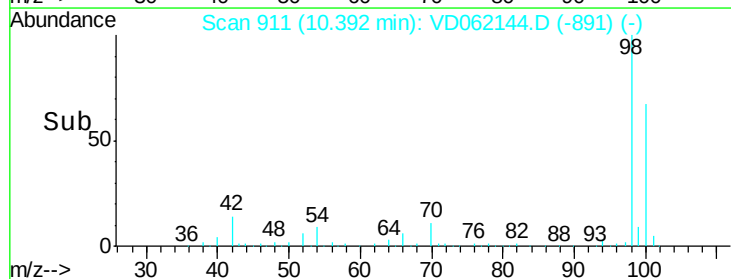
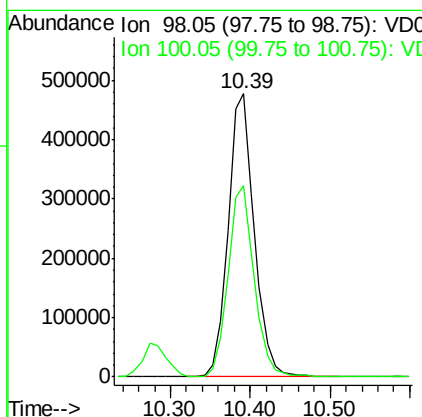
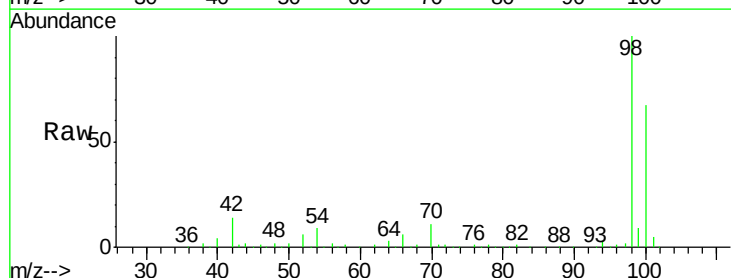
Manual Integrations
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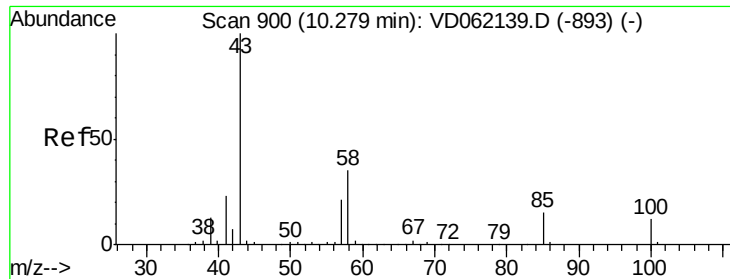
MMDadoda
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#50
Toluene-d8
Concen: 45.889 ug/l
RT: 10.39 min Scan# 911
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	98	Resp	1094261
Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 256.039 ug/l

RT: 10.27 min Scan# 899

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 967442

Ion Ratio Lower Upper

43 100

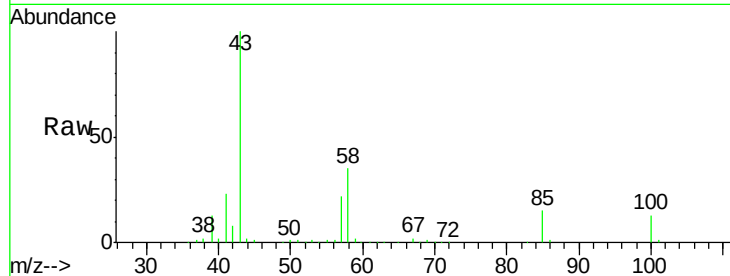
58 35.2 30.4 45.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.27

400000

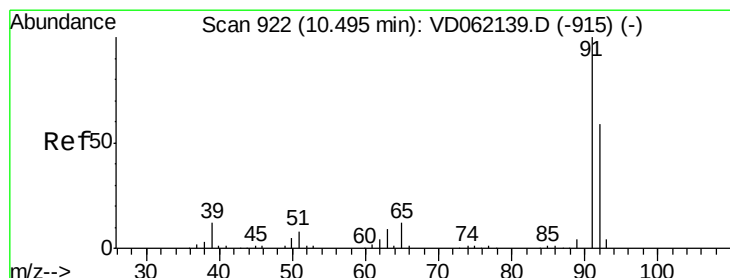
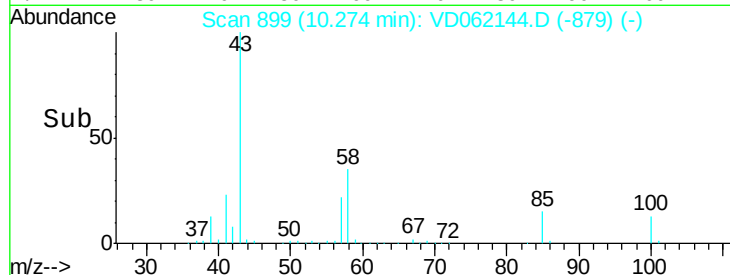
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 46.820 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.00 min

Lab File: VD062144.D

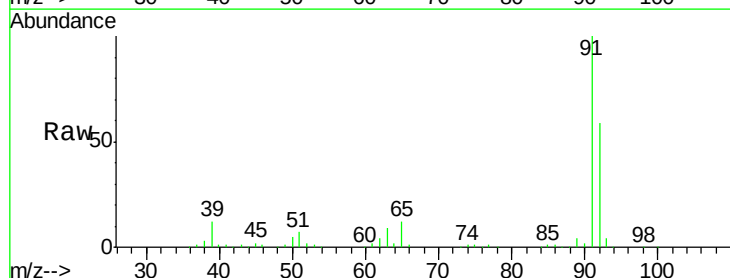
Acq: 7 May 2019 20:24

Tgt Ion: 92 Resp: 672298

Ion Ratio Lower Upper

92 100

91 170.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.49

600000

500000

400000

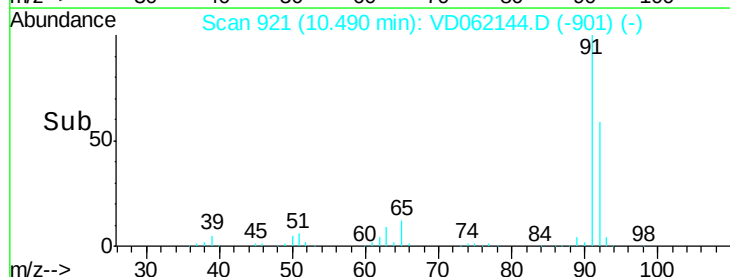
300000

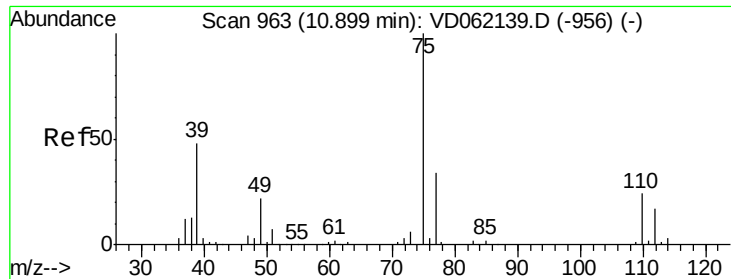
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 49.764 ug/l

RT: 10.89 min Scan# 962

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 467009

Ion Ratio Lower Upper

75 100

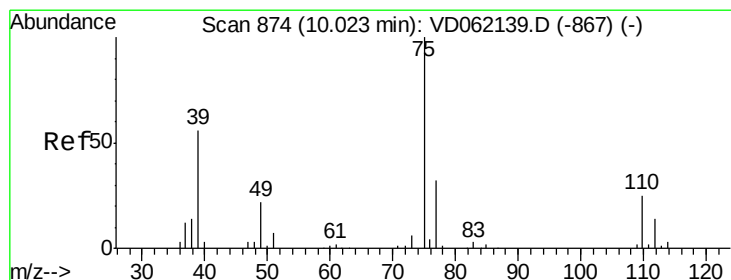
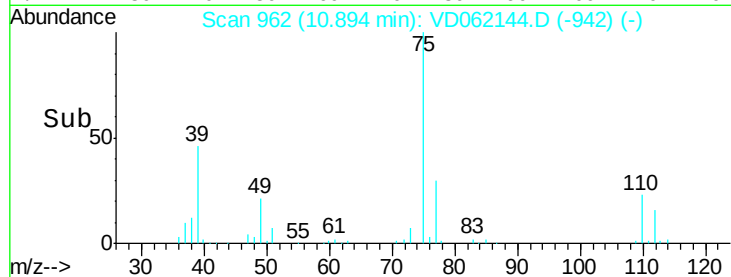
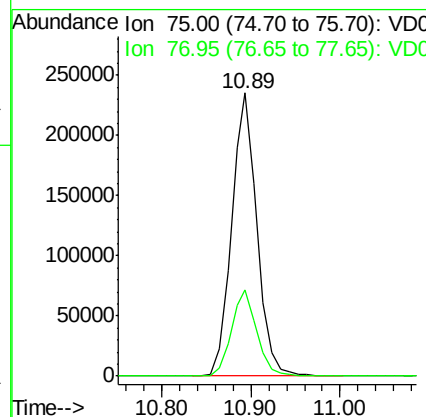
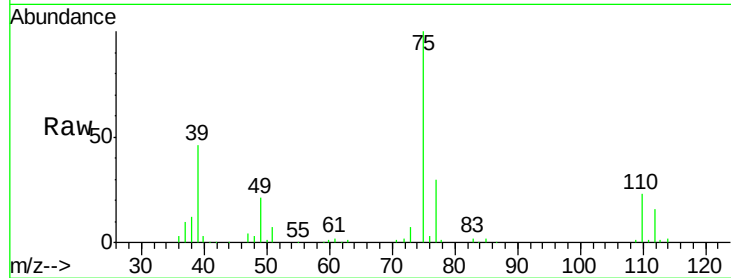
77 30.3 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 49.390 ug/l

RT: 10.02 min Scan# 873

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

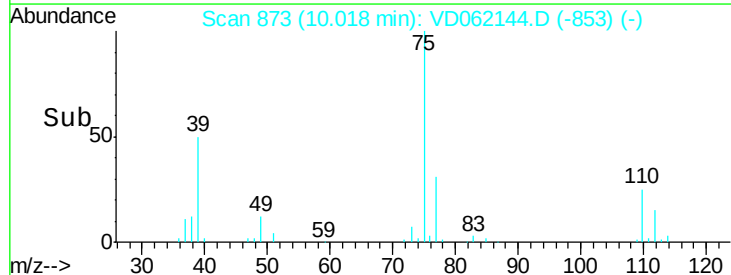
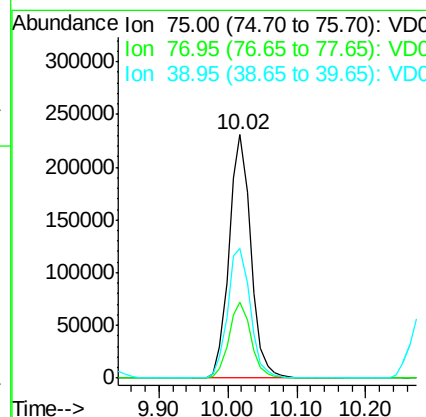
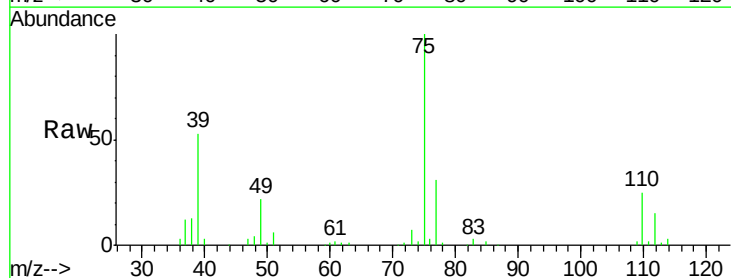
Tgt Ion: 75 Resp: 505633

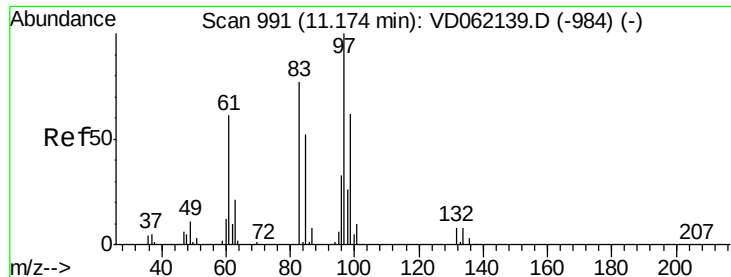
Ion Ratio Lower Upper

75 100

77 31.4 25.5 38.3

39 53.2 39.4 59.2





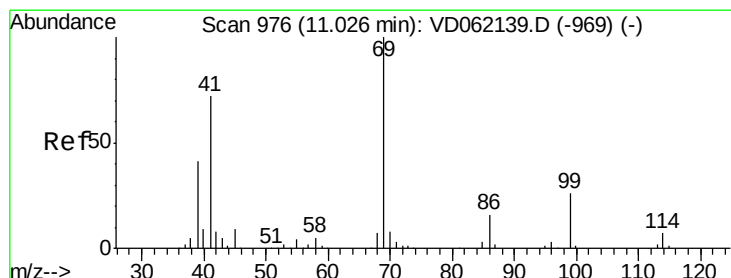
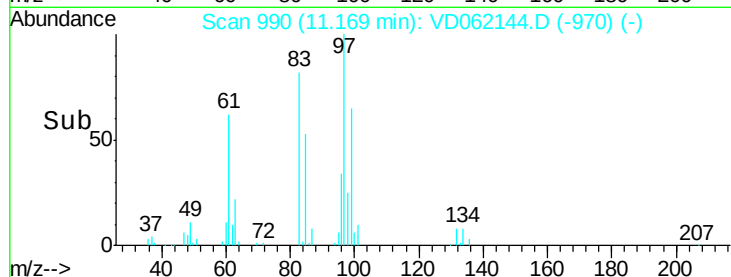
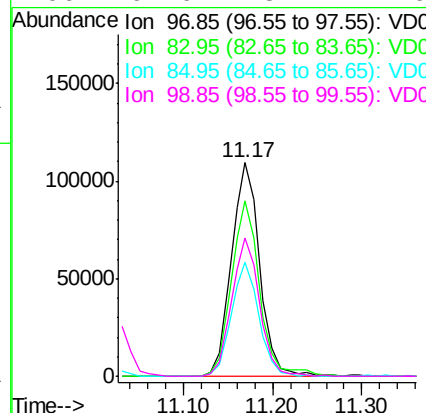
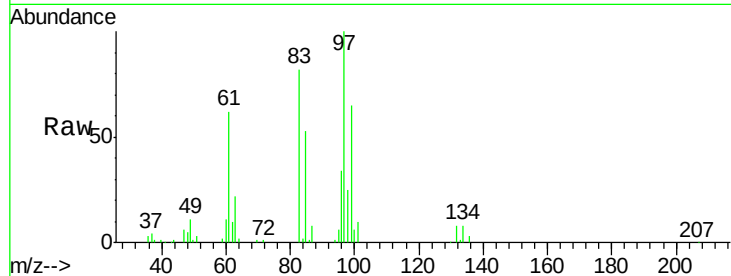
#55
 1,1,2-Trichloroethane
 Concen: 47.831 ug/l
 RT: 11.17 min Scan# 990
 Delta R.T. -0.00 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	243007
Ion	Ratio	Lower	Upper
97	100		
83	82.0	65.7	98.5
85	53.2	45.6	68.4
99	64.6	48.4	72.6

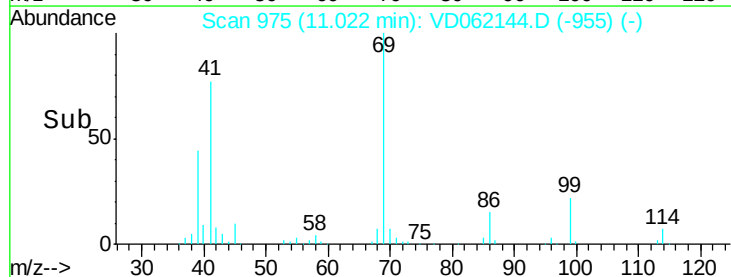
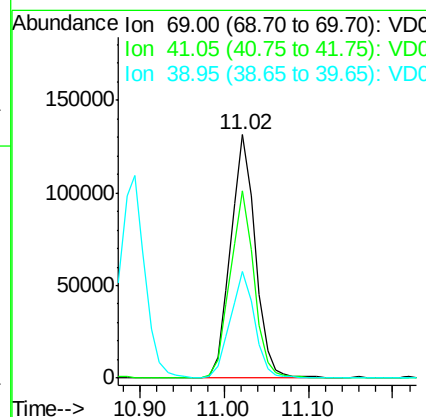
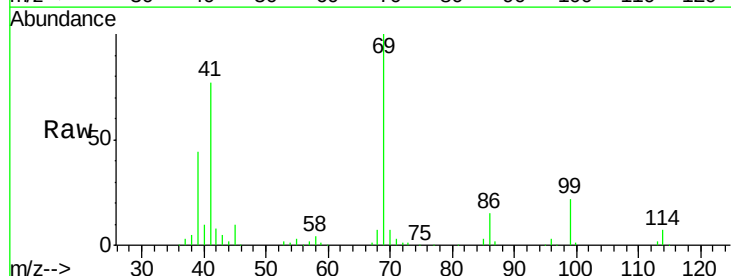
Manual Integrations
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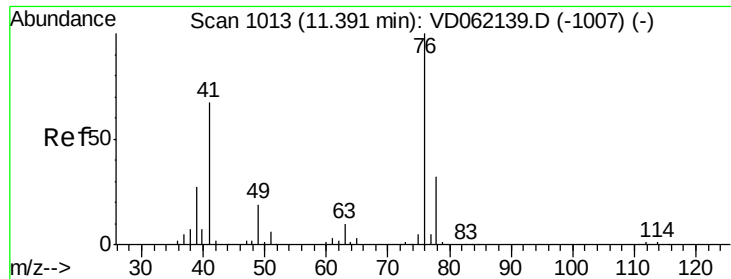
MMDadoda
 5/9/2019 12:56:37 AM



#56
 Ethyl methacrylate
 Concen: 50.660 ug/l
 RT: 11.02 min Scan# 975
 Delta R.T. -0.00 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Tgt Ion:	69	Resp:	267459
Ion	Ratio	Lower	Upper
69	100		
41	77.1	56.3	84.5
39	43.8	29.4	44.2





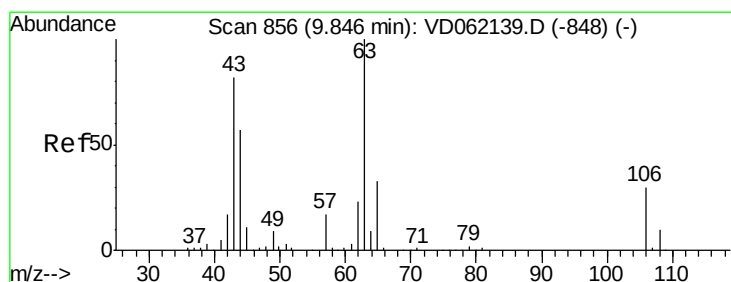
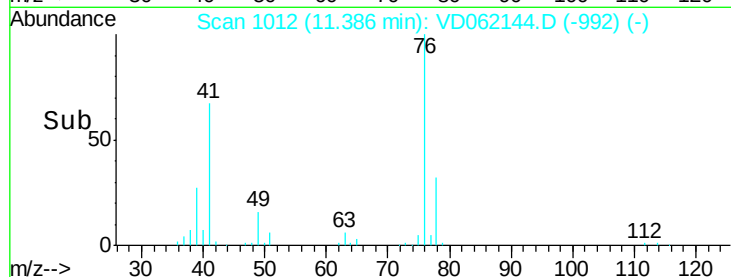
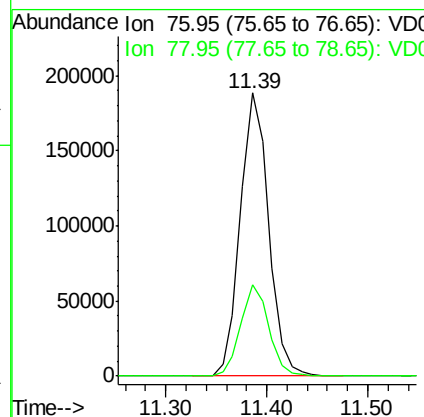
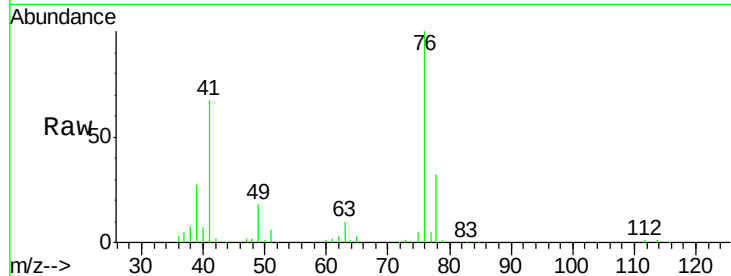
#57
 1,3-Dichloropropane
 Concen: 48.161 ug/l
 RT: 11.39 min Scan# 1012
 Delta R.T. -0.00 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 369659
 Ion Ratio Lower Upper
 76 100
 78 32.2 26.2 39.2

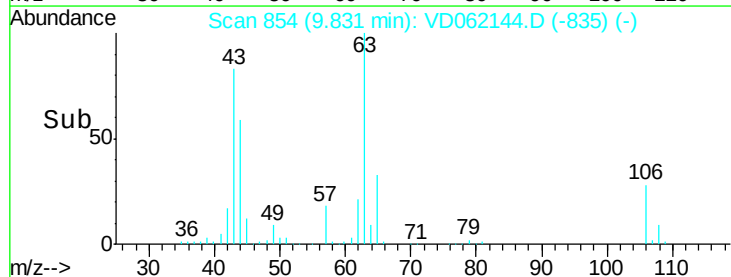
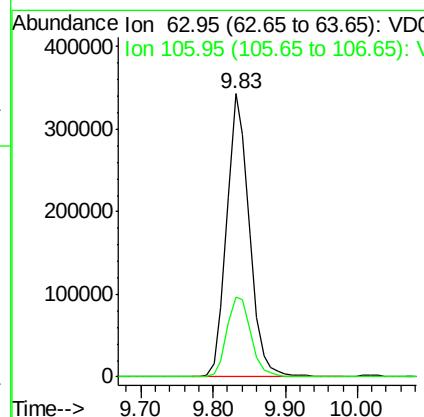
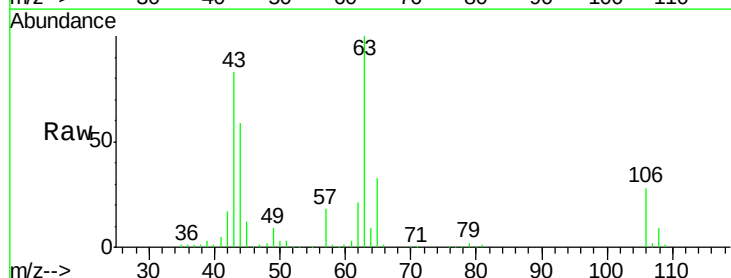
Manual Integrations
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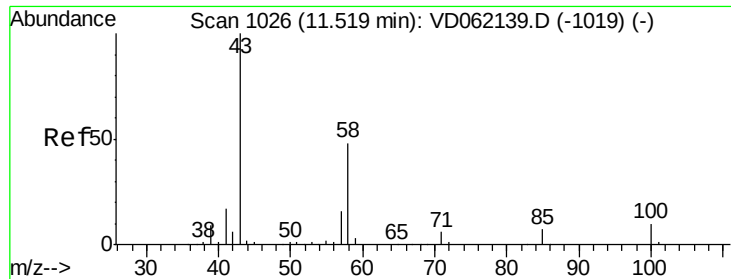
MMDadoda
 5/9/2019 12:56:37 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 258.178 ug/l
 RT: 9.83 min Scan# 854
 Delta R.T. -0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Tgt Ion: 63 Resp: 744541
 Ion Ratio Lower Upper
 63 100
 106 28.1 22.6 34.0





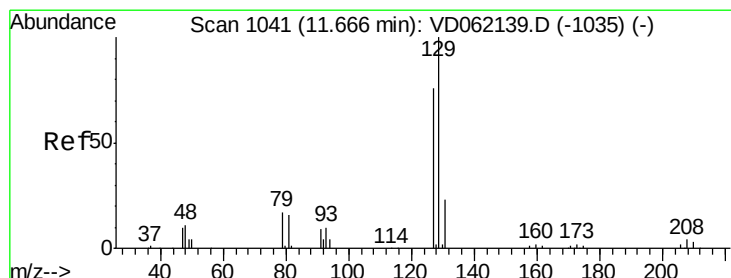
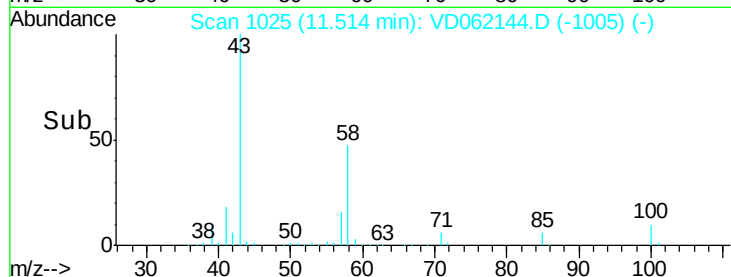
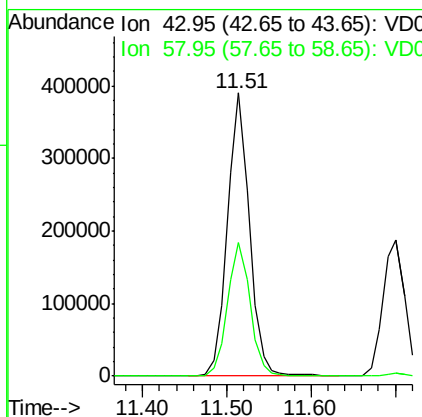
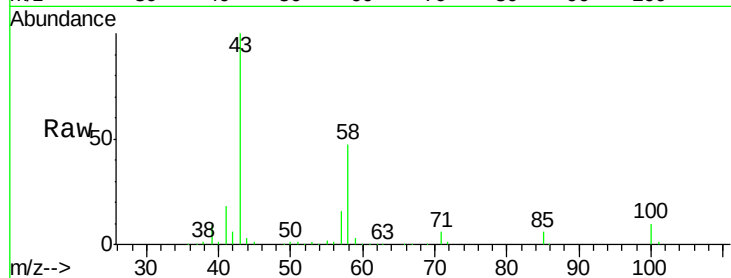
#59
2-Hexanone
Concen: 253.632 ug/l
RT: 11.51 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 706338
Ion Ratio Lower Upper
43 100
58 47.2 25.4 76.4

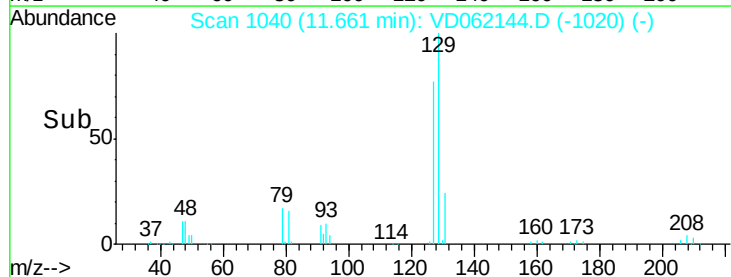
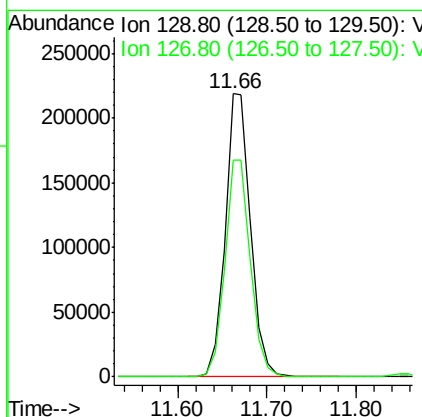
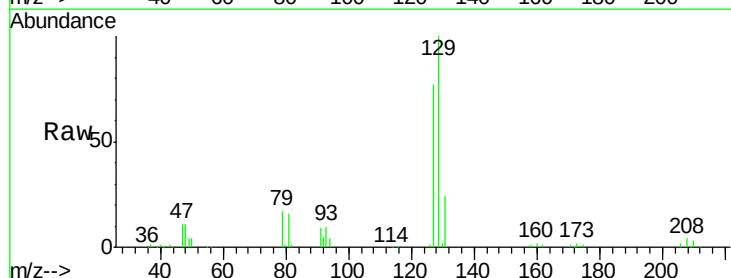
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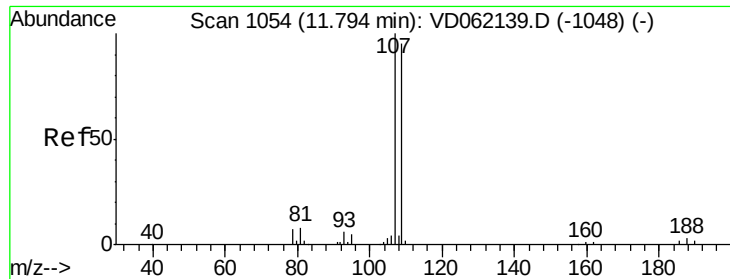
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#60
Dibromochloromethane
Concen: 49.739 ug/l
RT: 11.66 min Scan# 1040
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion:129 Resp: 436726
Ion Ratio Lower Upper
129 100
127 76.6 38.0 113.9





#61

1,2-Dibromoethane

Concen: 49.512 ug/l

RT: 11.79 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 305822

Ion Ratio Lower Upper

107 100

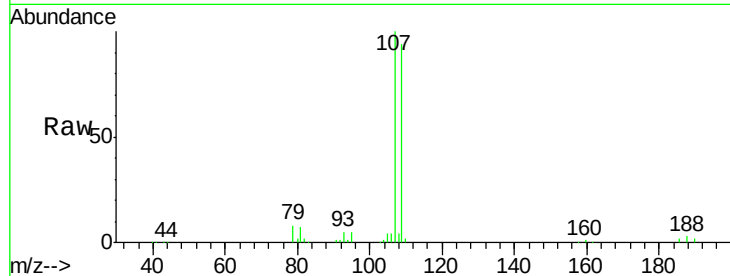
109 93.6 78.3 117.5

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.79

200000

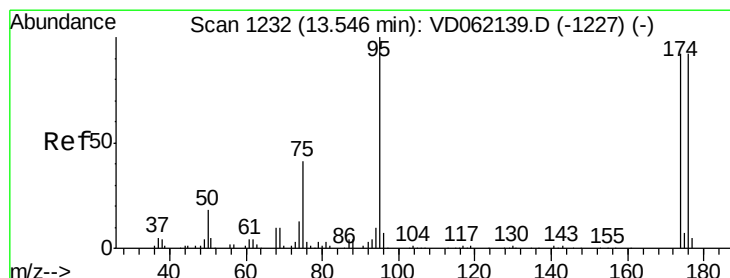
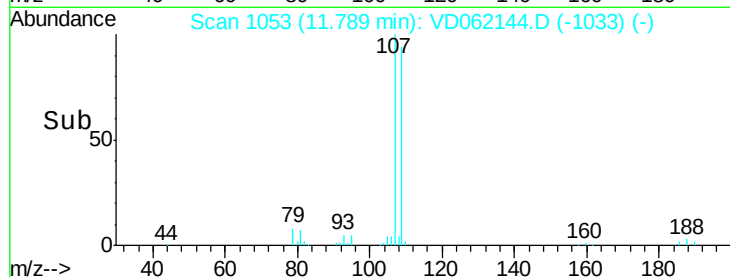
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.148 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

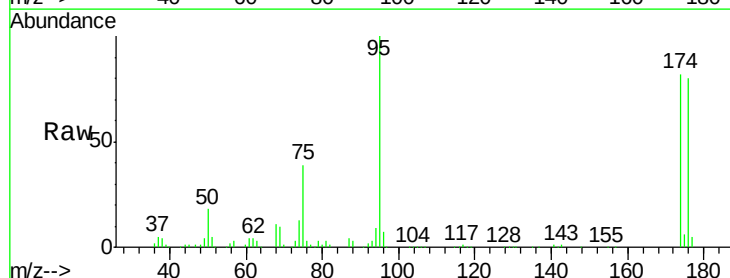
Tgt Ion: 95 Resp: 432322

Ion Ratio Lower Upper

95 100

174 81.9 0.0 181.8

176 80.0 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.54

400000

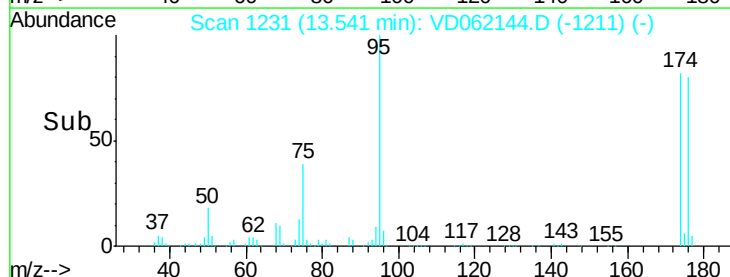
300000

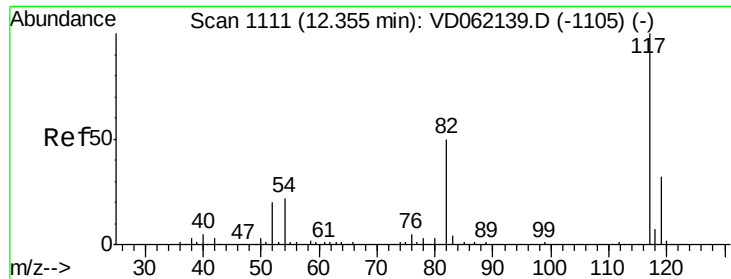
200000

100000

0

Time-->





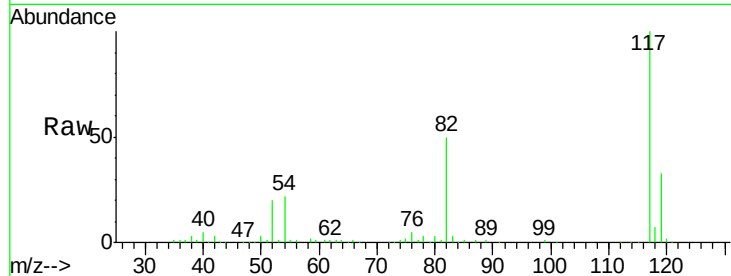
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

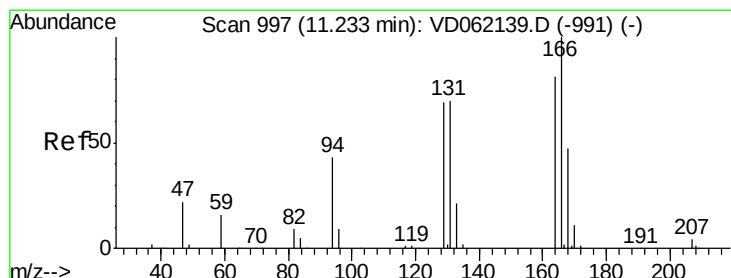
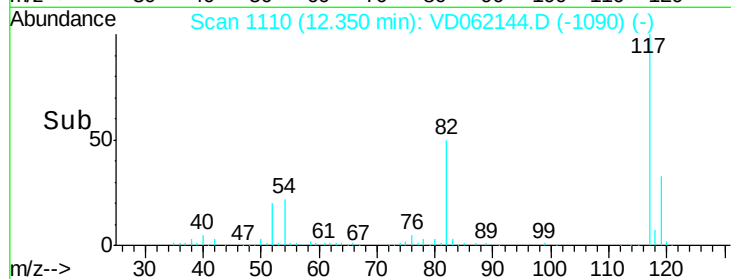
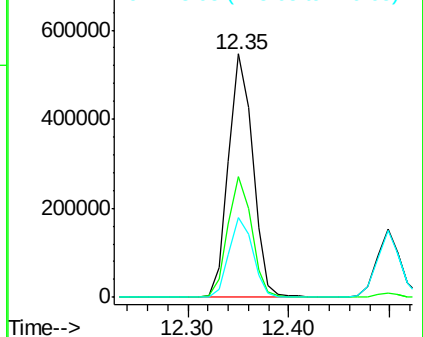
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.6	36.2	54.2
119	32.9	26.2	39.4

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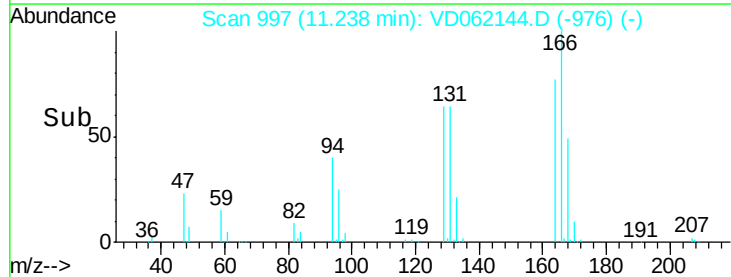
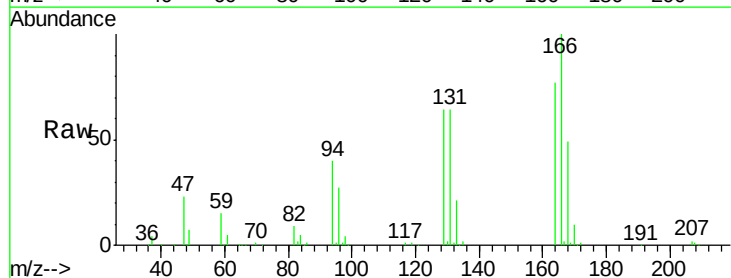
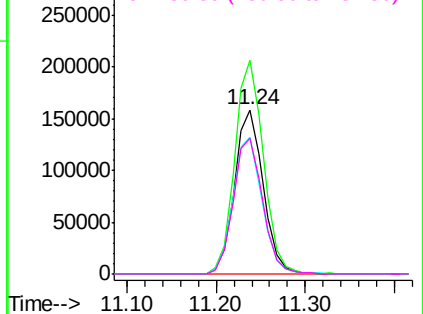
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

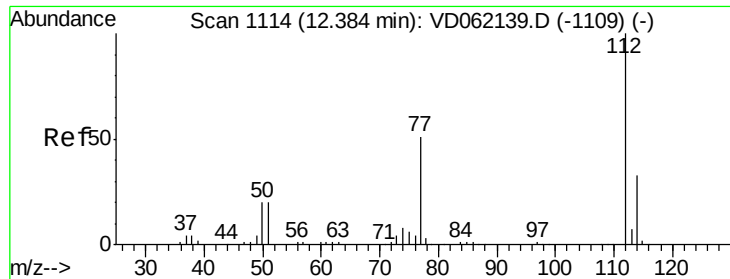


#64
Tetrachloroethene
Concen: 49.853 ug/l
RT: 11.24 min Scan# 997
Delta R.T. 0.01 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.2	101.5	152.3
129	83.4	74.6	112.0
131	82.7	72.6	108.8

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 48.735 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 829279

Ion Ratio Lower Upper

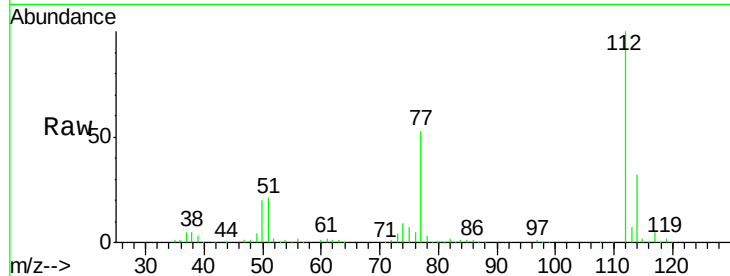
112 100

114 31.9 25.8 38.8

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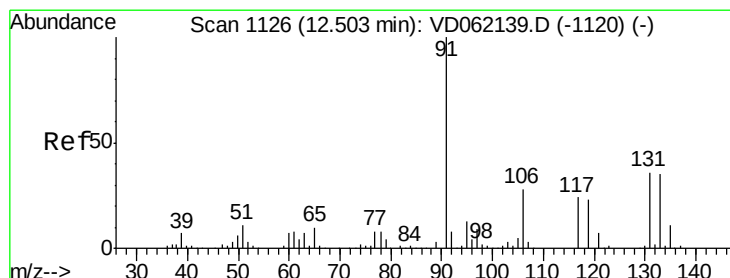
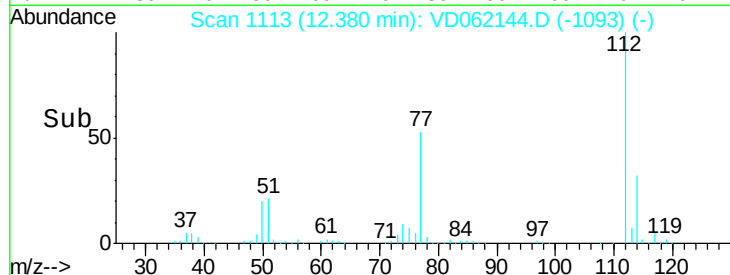
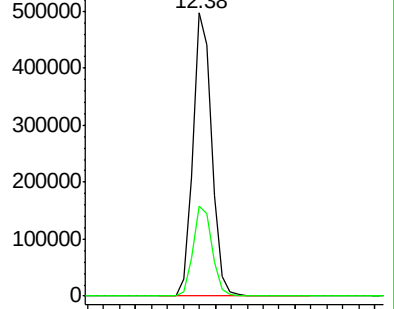
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 50.536 ug/l

RT: 12.50 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

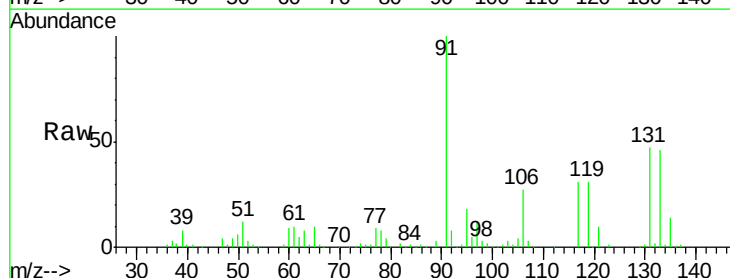
Tgt Ion:131 Resp: 374250

Ion Ratio Lower Upper

131 100

133 97.4 48.6 145.8

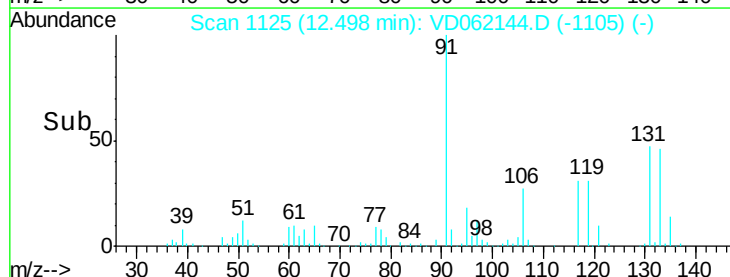
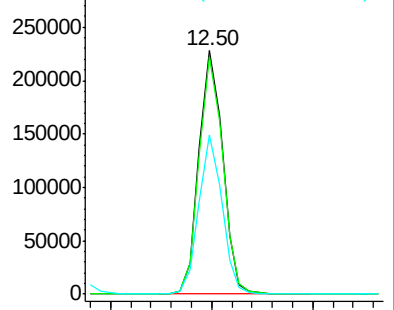
119 65.4 34.7 104.1

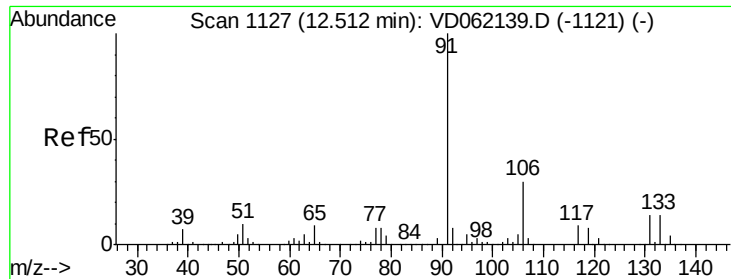


Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V





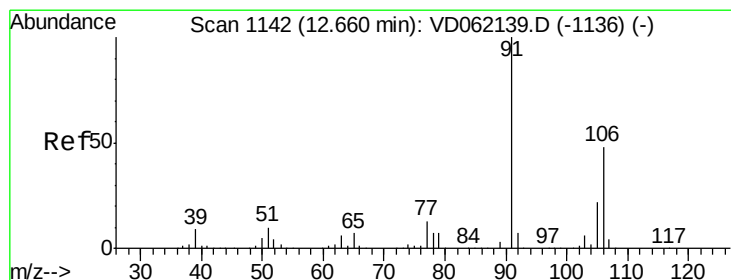
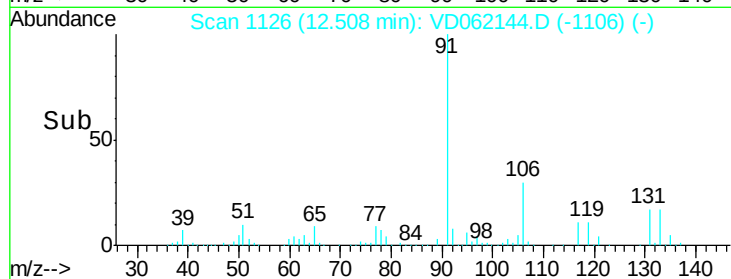
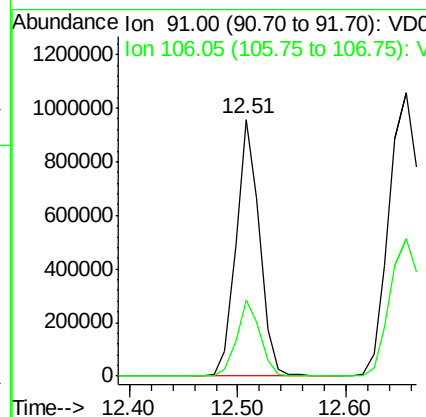
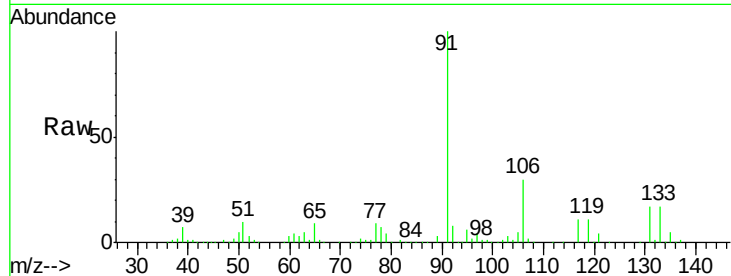
#67
Ethyl Benzene
Concen: 50.367 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1434815
Ion Ratio Lower Upper
91 100
106 29.6 24.7 37.1

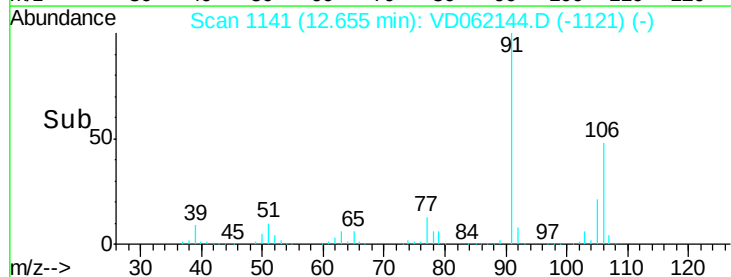
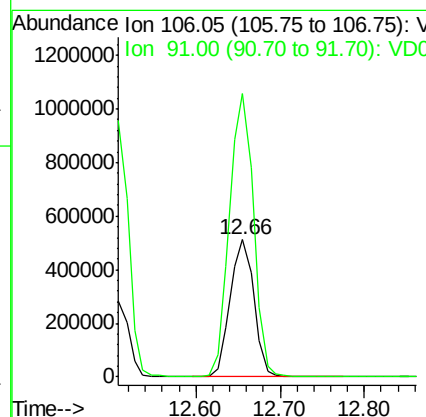
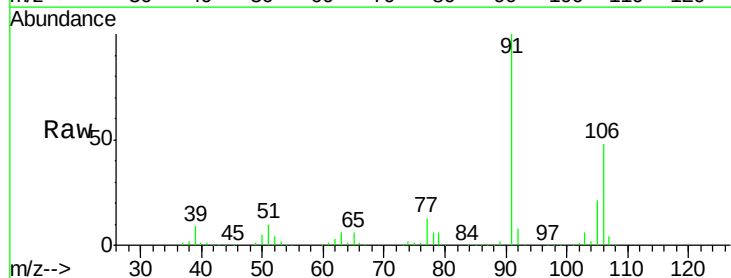
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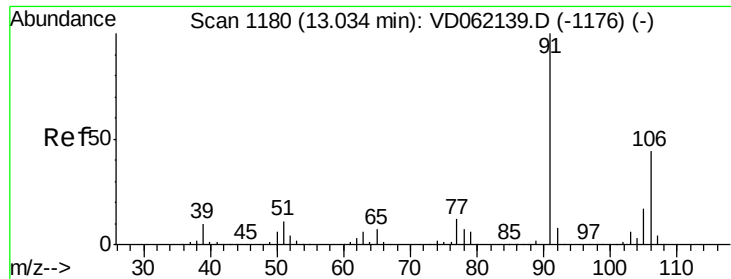
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#68
m/p-Xylenes
Concen: 96.829 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion:106 Resp: 1003577
Ion Ratio Lower Upper
106 100
91 206.2 164.0 246.0





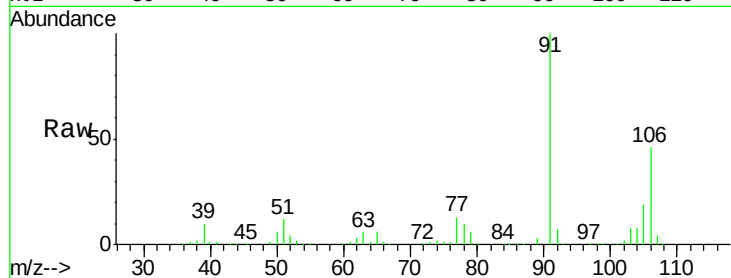
#69
o-Xylene
Concen: 51.796 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. 0.01 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

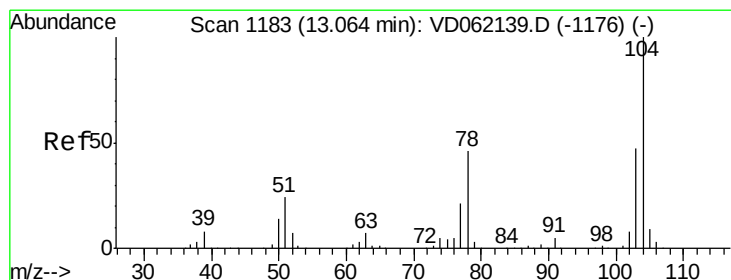
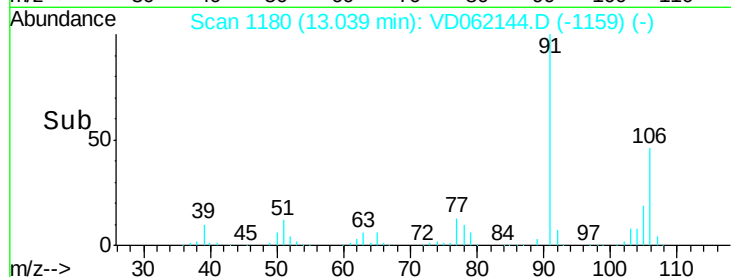
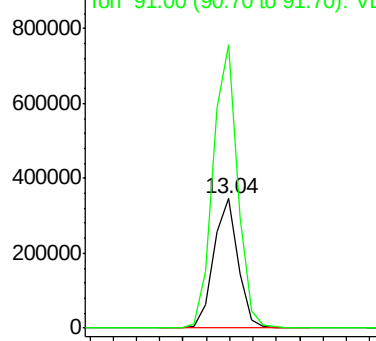
Tot Ion:106 Resp: 499085
Ion Ratio Lower Upper
106 100
91 218.9 106.7 319.9

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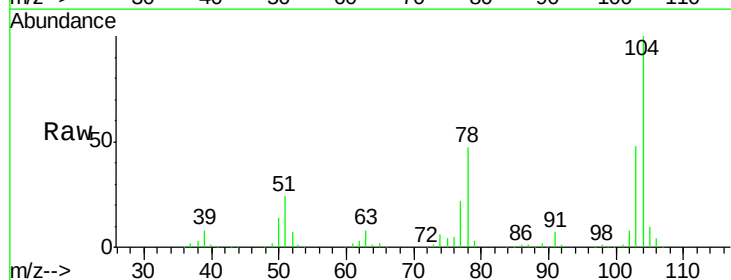


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

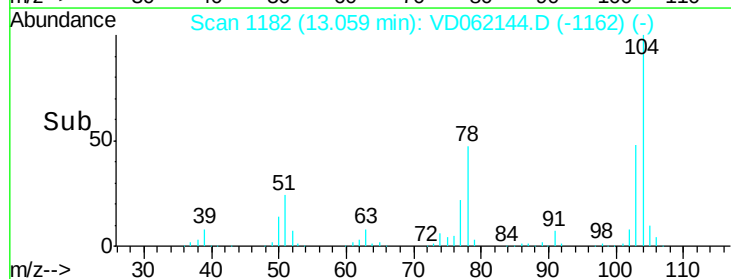
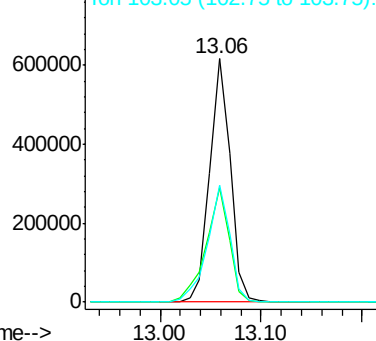


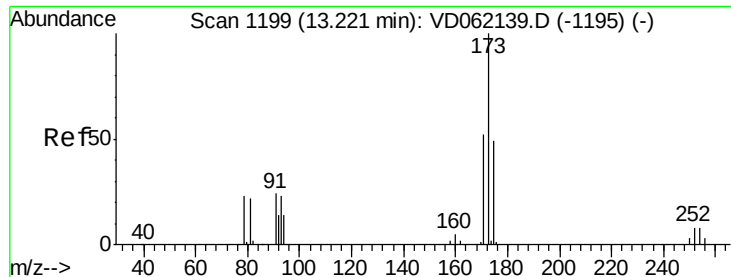
#70
Styrene
Concen: 53.670 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion:104 Resp: 876052
Ion Ratio Lower Upper
104 100
78 47.0 35.4 53.2
103 47.8 37.5 56.3



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





#71

Bromoform

Concen: 50.375 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. 0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

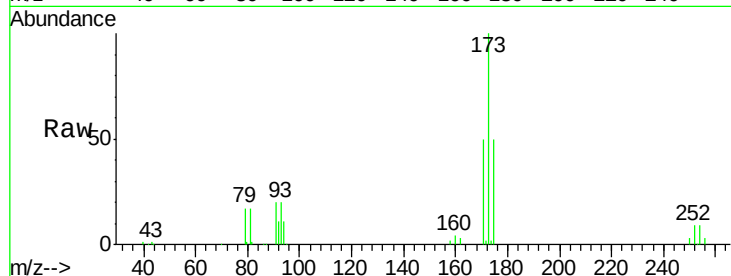
ClientSampleId :

VSTDCCC050

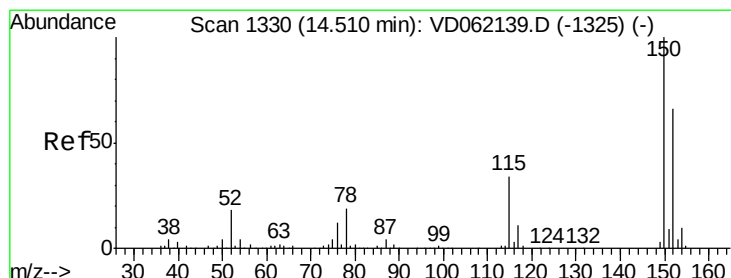
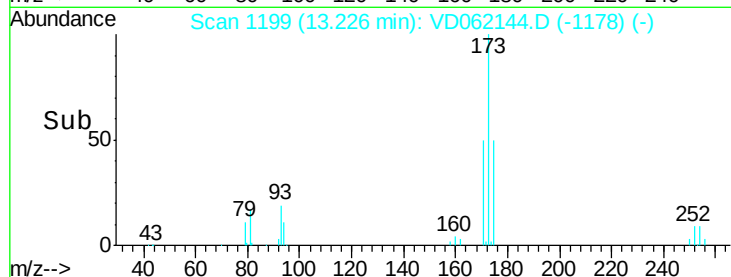
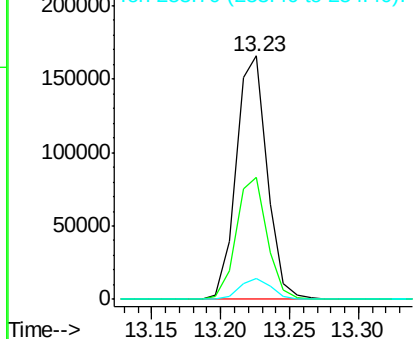
Tot Ion:	173	Resp:	259552
Ion Ratio	Lower	Upper	
173	100		
175	50.1	24.4	73.4
254	8.8	5.4	8.2#

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Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

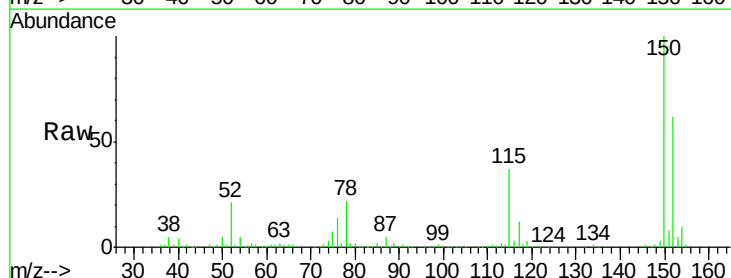
RT: 14.51 min Scan# 1329

Delta R.T. -0.00 min

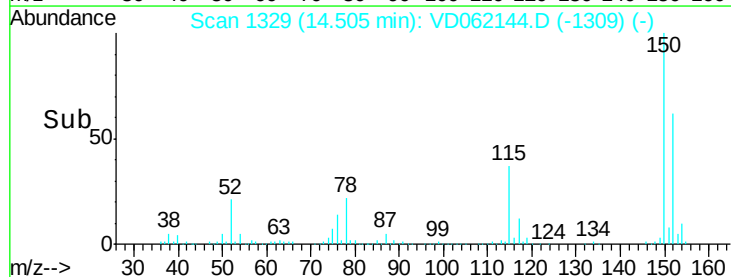
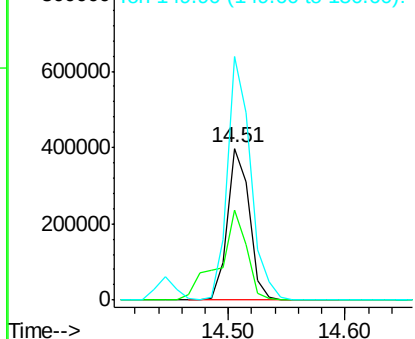
Lab File: VD062144.D

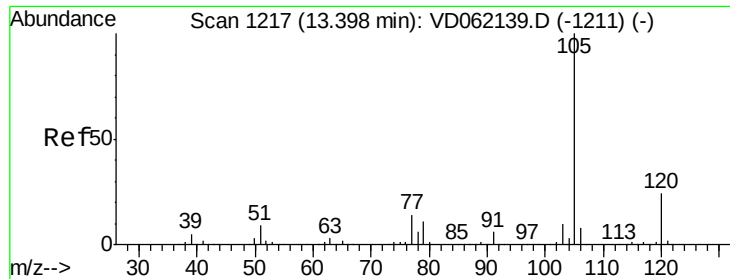
Acq: 7 May 2019 20:24

Tgt Ion:	152	Resp:	515041
Ion Ratio	Lower	Upper	
152	100		
115	59.5	30.9	92.7
150	160.7	0.0	314.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 46.715 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1442250

Ion Ratio Lower Upper

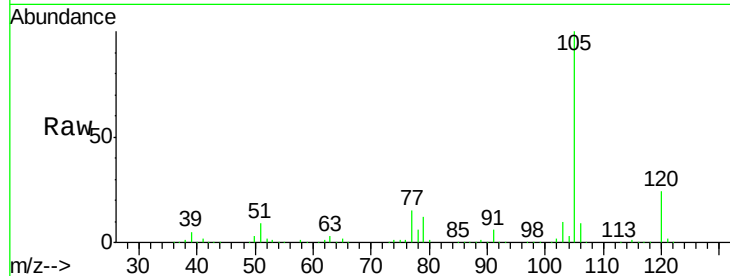
105 100

120 23.6 12.0 36.1

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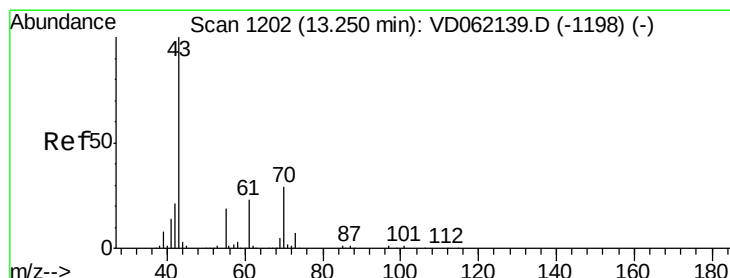
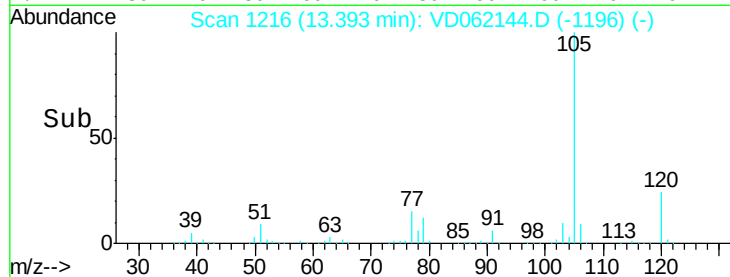
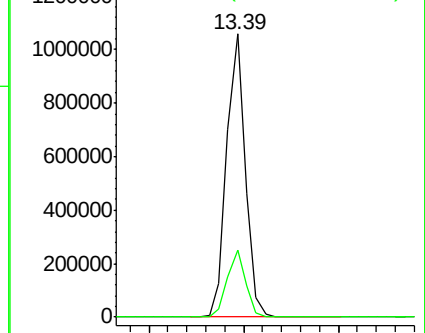
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 48.644 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion: 43 Resp: 393739

Ion Ratio Lower Upper

43 100

70 30.8 24.2 36.4

55 18.7 16.0 24.0

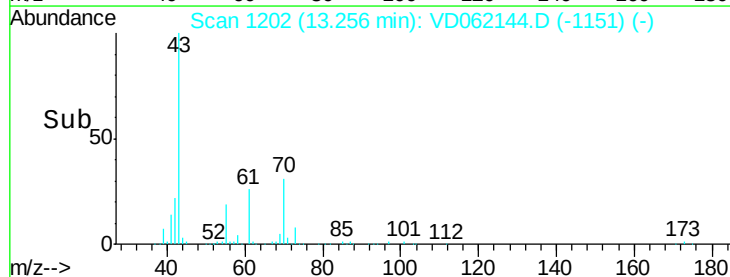
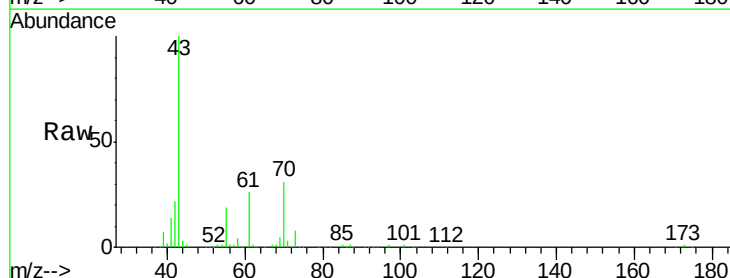
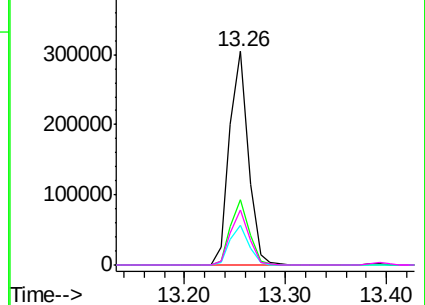
61 26.0 21.6 32.4

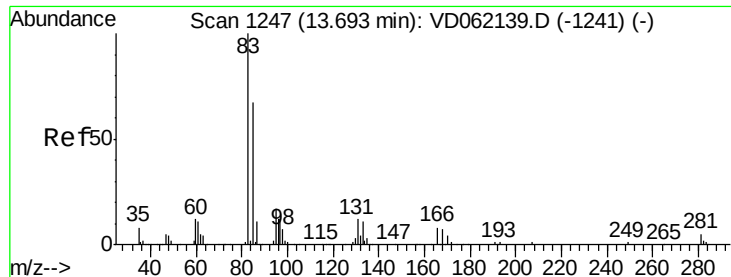
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 49.744 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

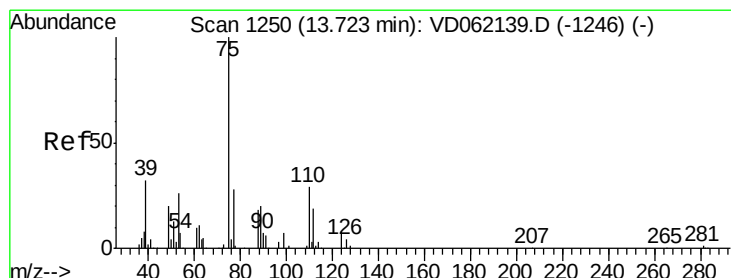
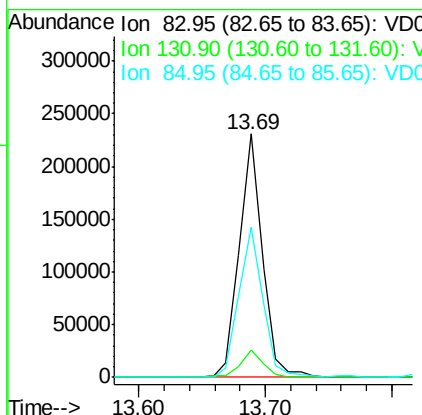
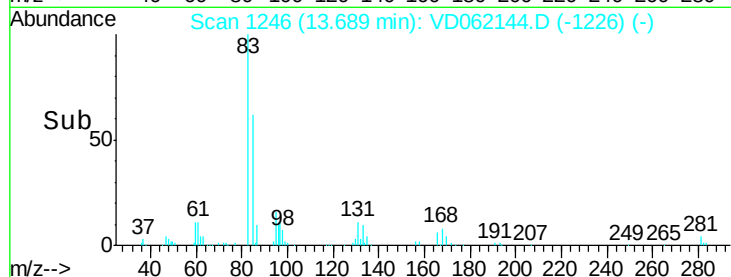
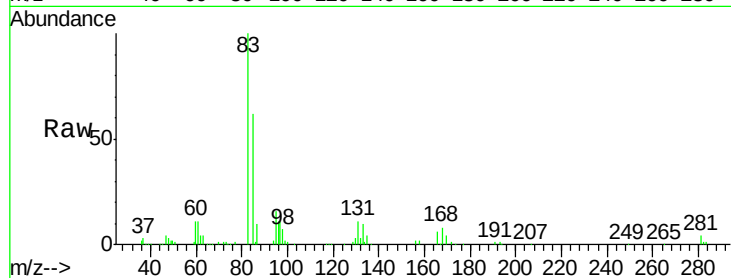
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	290738
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.0	14.9
85	61.9	32.6	97.7

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#76

1,2,3-Trichloropropane

Concen: 46.969 ug/l

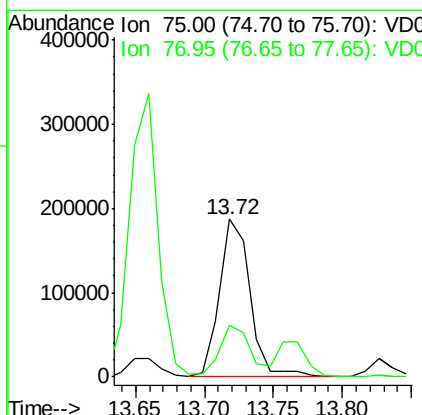
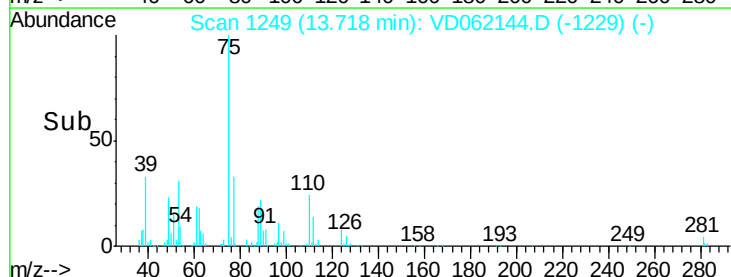
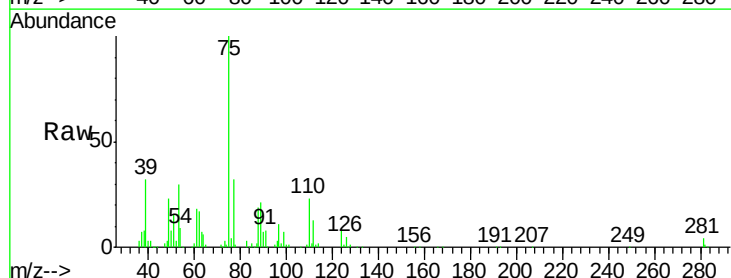
RT: 13.72 min Scan# 1249

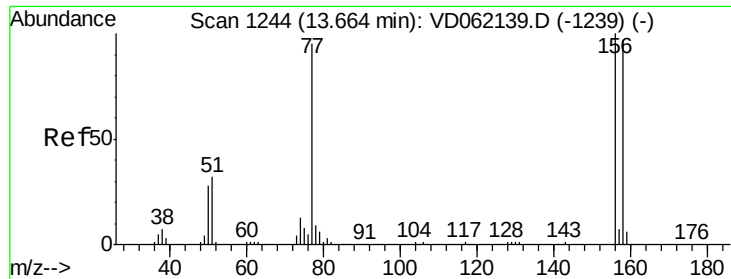
Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion:	75	Resp:	287492
Ion Ratio	Lower	Upper	
75	100		
77	32.4	16.4	49.4





#77

Bromobenzene

Concen: 47.755 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

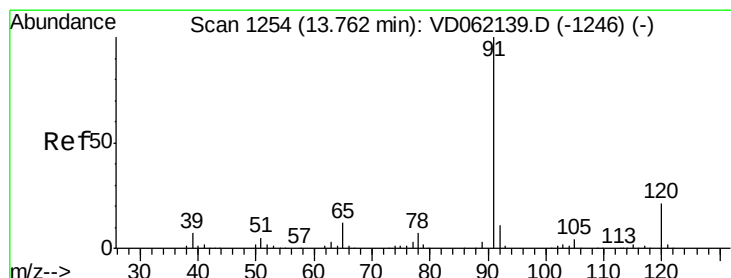
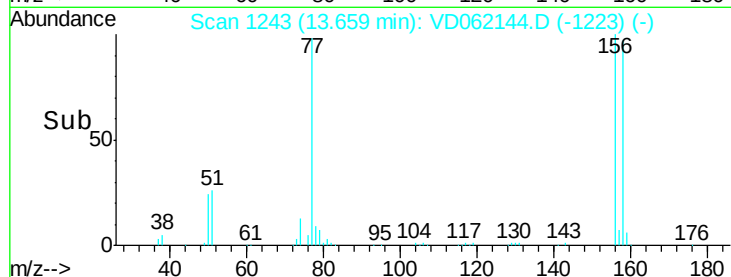
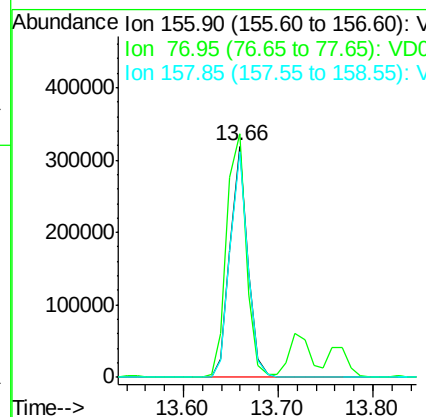
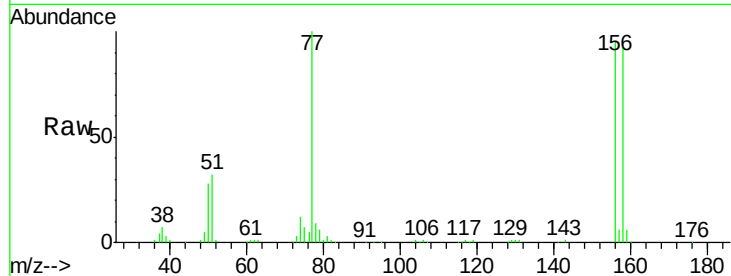
ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 412723
 Ion Ratio Lower Upper
 156 100
 77 105.4 53.1 159.4
 158 97.5 49.4 148.0

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#78

n-propylbenzene

Concen: 44.072 ug/l

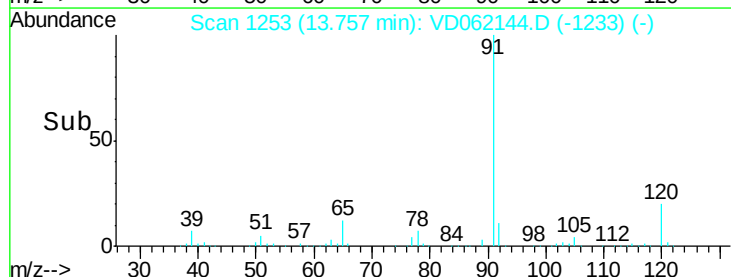
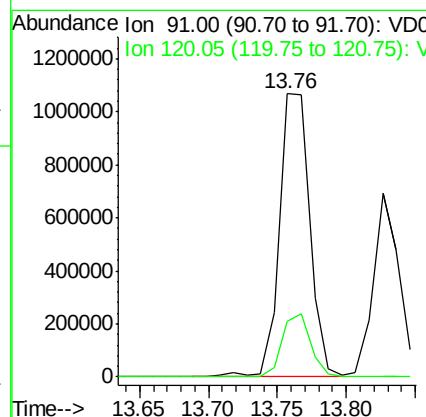
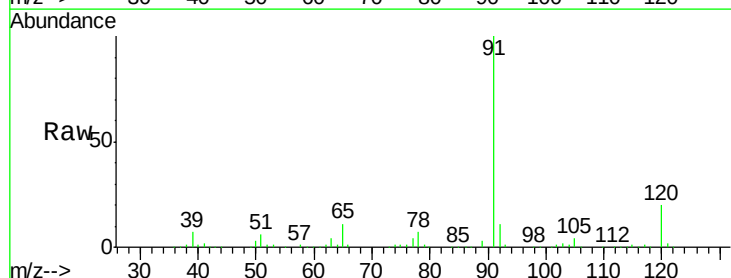
RT: 13.76 min Scan# 1253

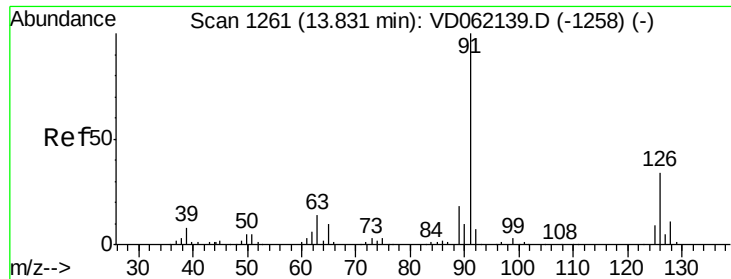
Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion: 91 Resp: 1623083
 Ion Ratio Lower Upper
 91 100
 120 19.8 11.1 33.1





#79

2-Chlorotoluene

Concen: 42.607 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 898675

Ion Ratio Lower Upper

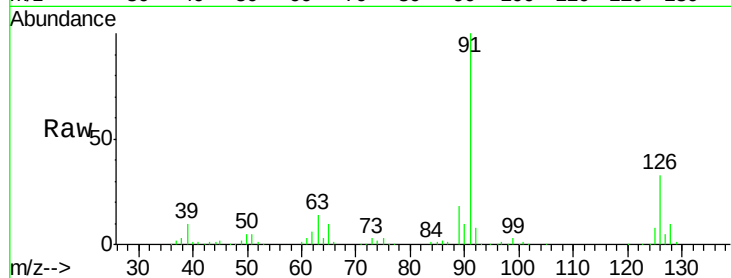
91 100

126 32.9 18.6 55.8

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Abundance Ion 91.00 (90.70 to 91.70): VD062139.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD062139.D (-1258) (-)

1200000

1000000

800000

600000

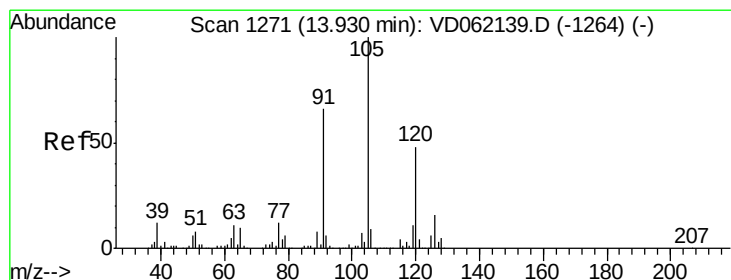
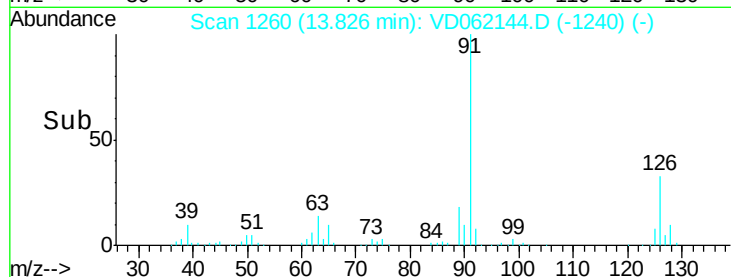
400000

200000

0

13.80 13.85 13.90

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 47.178 ug/l

RT: 13.92 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD062144.D

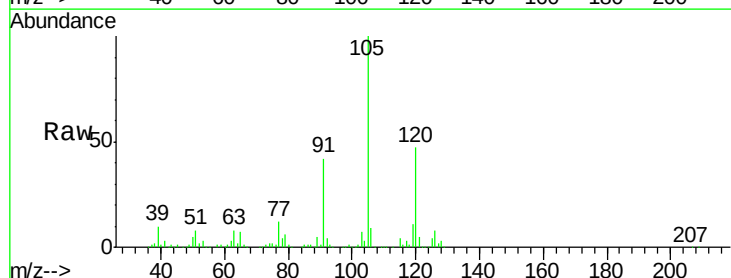
Acq: 7 May 2019 20:24

Tgt Ion: 105 Resp: 1226514

Ion Ratio Lower Upper

105 100

120 46.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD062139.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD062139.D (-1264) (-)

1000000

800000

600000

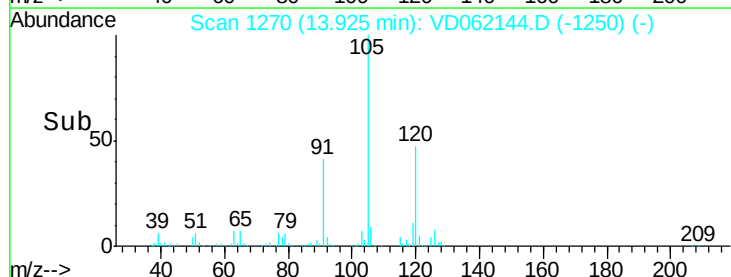
400000

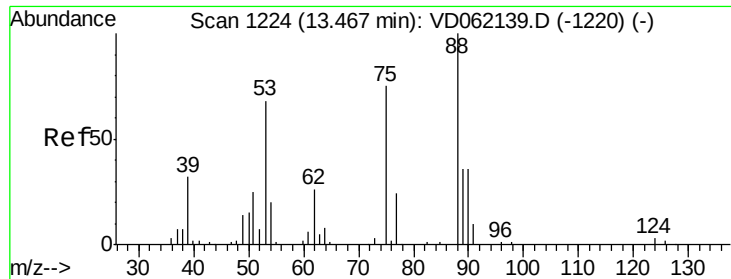
200000

0

13.80 13.90 14.00

Time-->





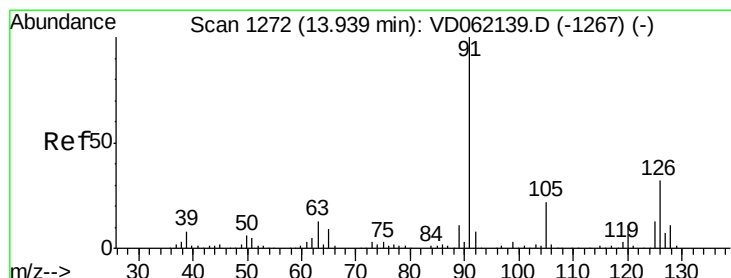
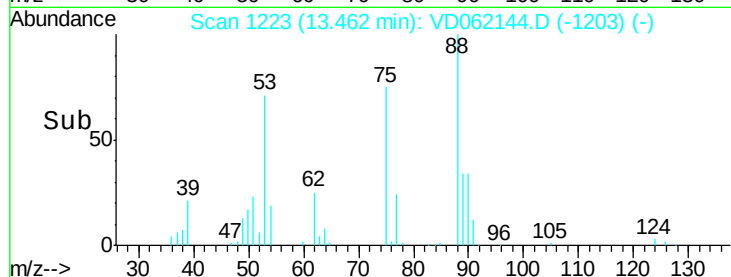
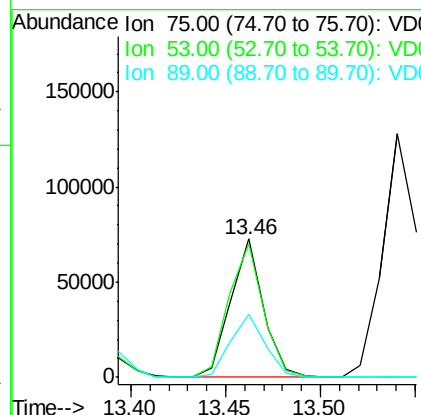
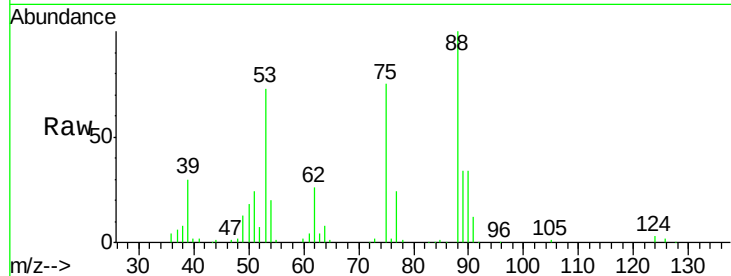
#81
trans-1,4-Dichloro-2-butene
Concen: 50.452 ug/l
RT: 13.46 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.0	65.8	98.8
89	45.4	35.0	52.6

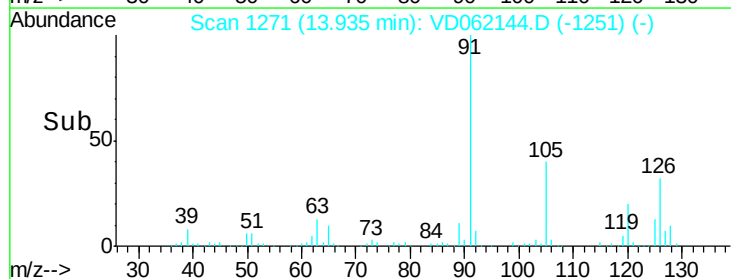
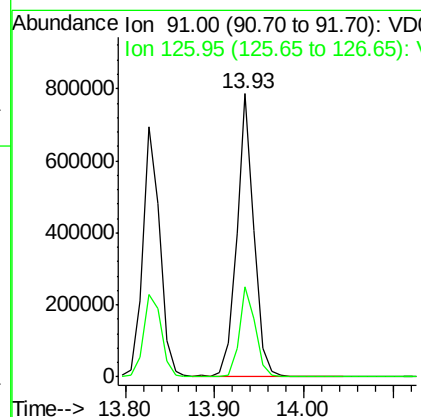
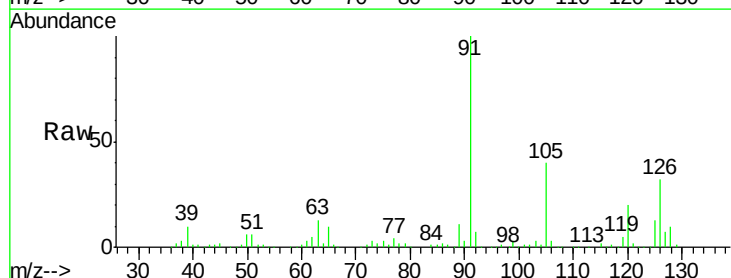
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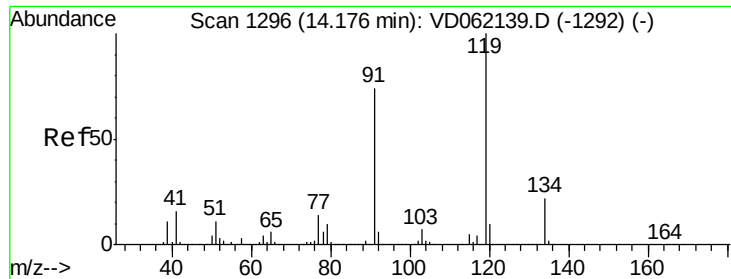
MMDadoda
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#82
4-Chlorotoluene
Concen: 42.884 ug/l
RT: 13.93 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VD062144.D
Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.9	19.1	57.5





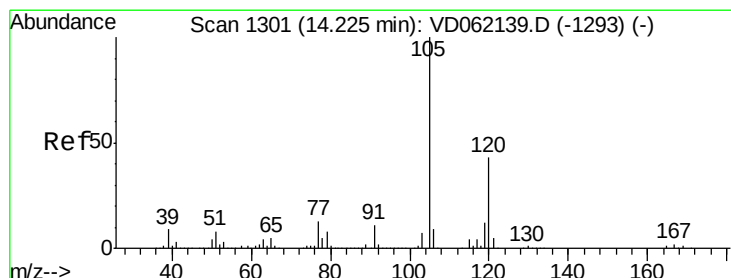
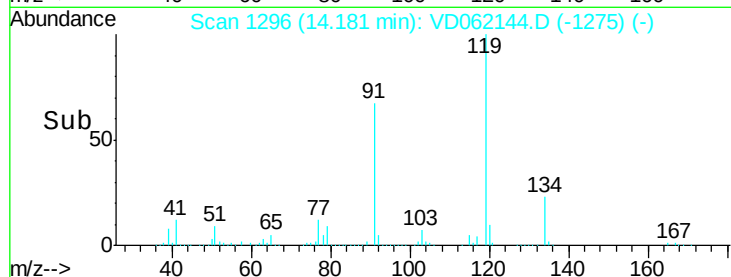
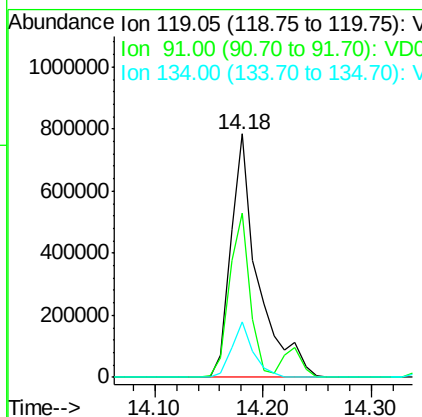
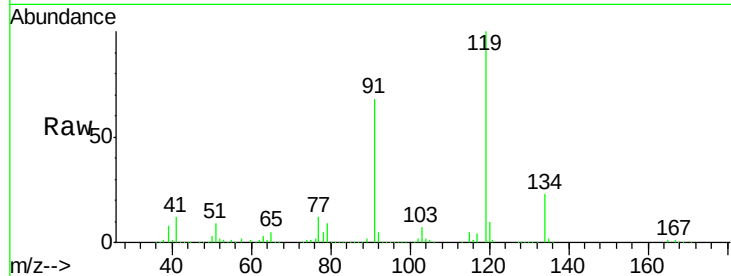
#83
 tert-Butylbenzene
 Concen: 46.896 ug/l
 RT: 14.18 min Scan# 1296
 Delta R.T. 0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 1370358
 Ion Ratio Lower Upper
 119 100
 91 67.6 34.2 102.6
 134 22.6 12.0 36.0

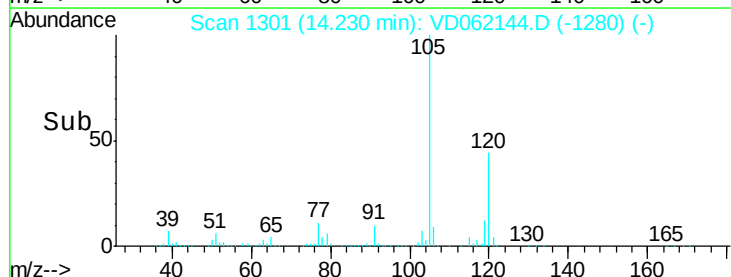
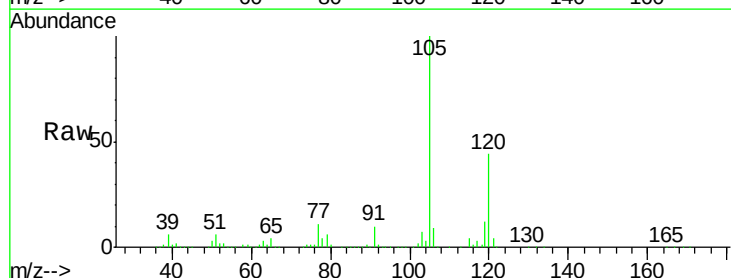
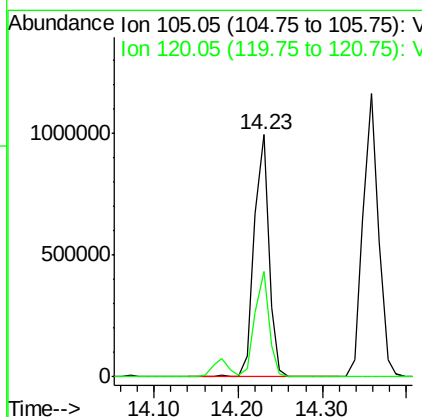
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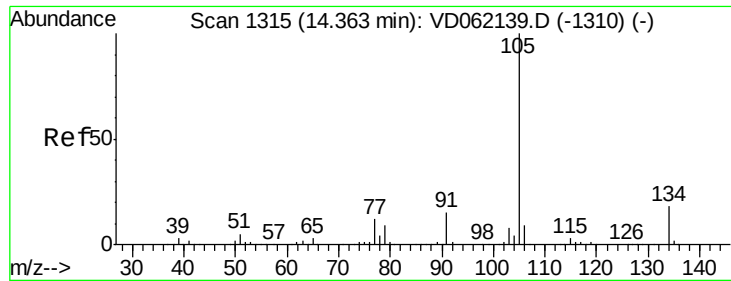
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#84
 1,2,4-Trimethylbenzene
 Concen: 47.419 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. 0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Tgt Ion:105 Resp: 1237090
 Ion Ratio Lower Upper
 105 100
 120 43.6 23.1 69.2





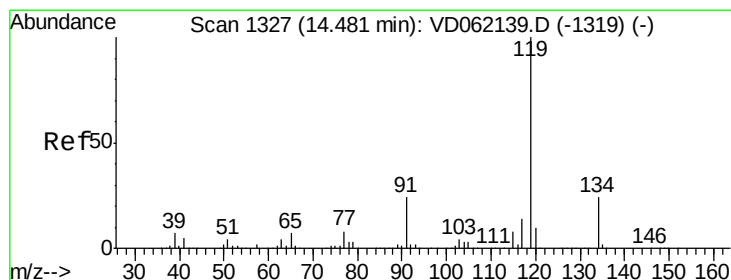
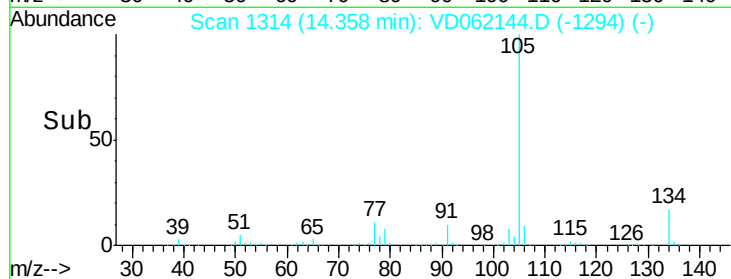
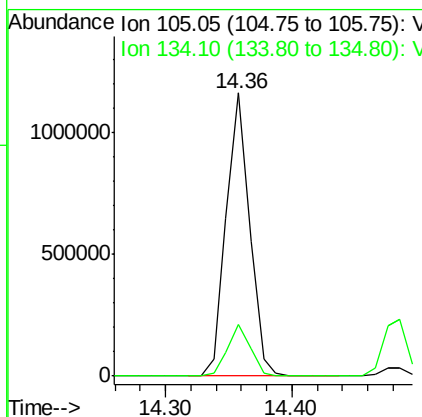
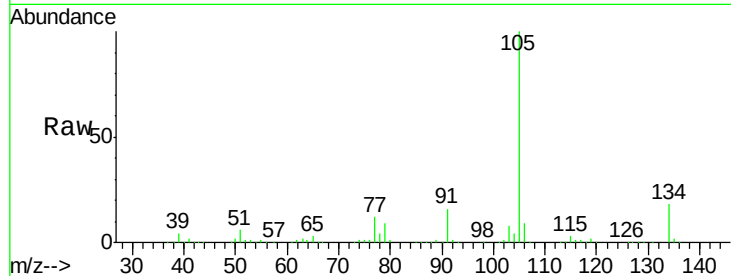
#85
 sec-Butylbenzene
 Concen: 46.351 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.00 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion:105 Resp: 1485001
 Ion Ratio Lower Upper
 105 100
 134 18.2 8.9 26.7

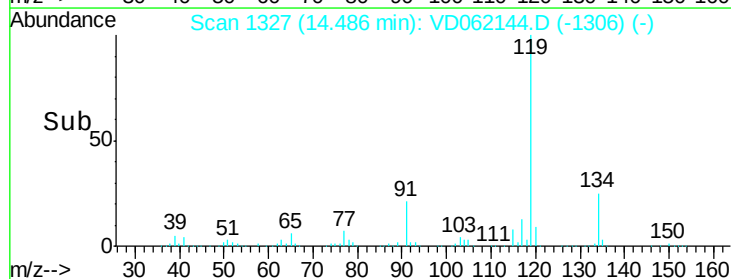
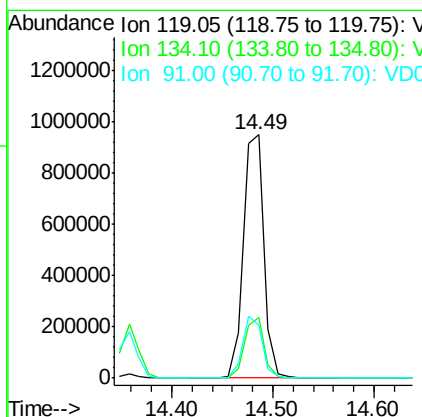
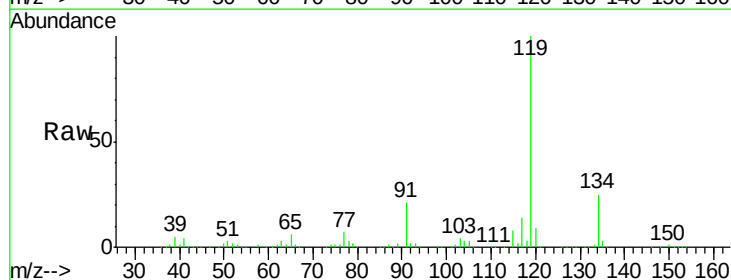
Manual Integrations
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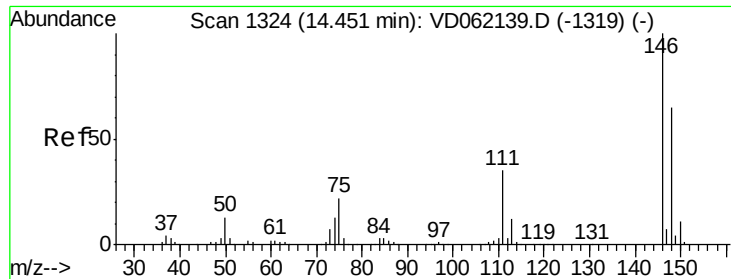
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#86
 p-Isopropyltoluene
 Concen: 46.836 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Tgt Ion:119 Resp: 1340643
 Ion Ratio Lower Upper
 119 100
 134 24.7 12.8 38.3
 91 21.5 10.7 32.1





#87

1,3-Dichlorobenzene

Concen: 45.861 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

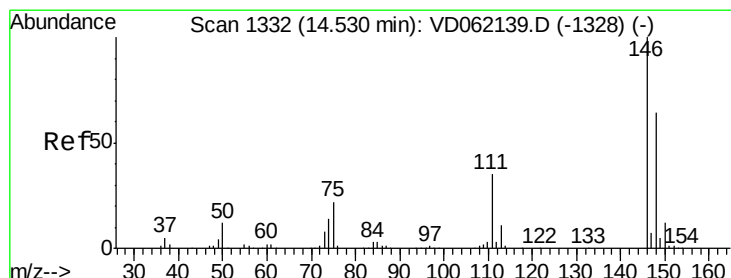
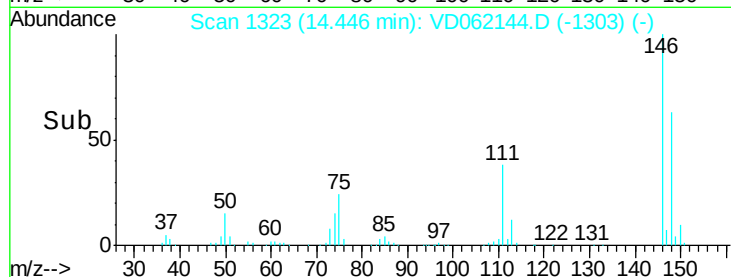
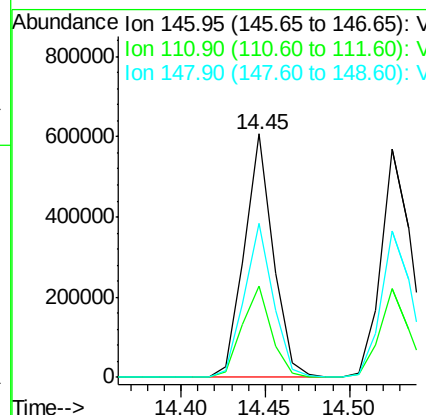
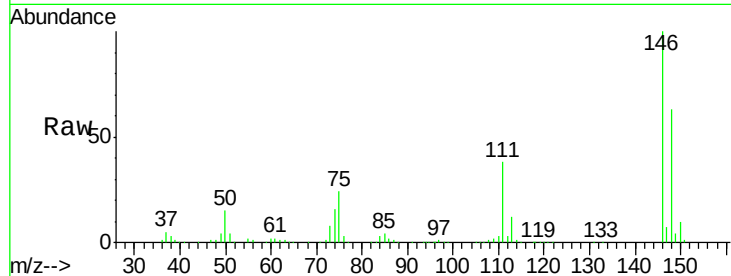
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	724039
Ion Ratio	Lower	Upper	
146	100		
111	37.6	20.0	60.0
148	63.3	31.8	95.4

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#88

1,4-Dichlorobenzene

Concen: 45.329 ug/l

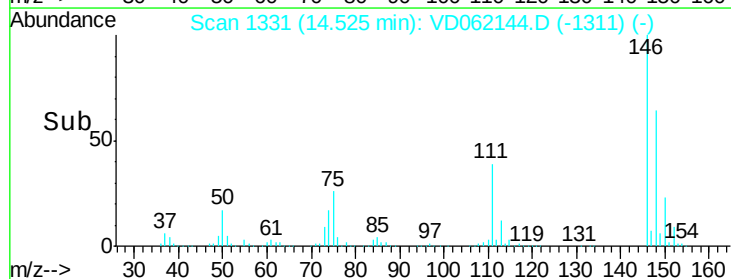
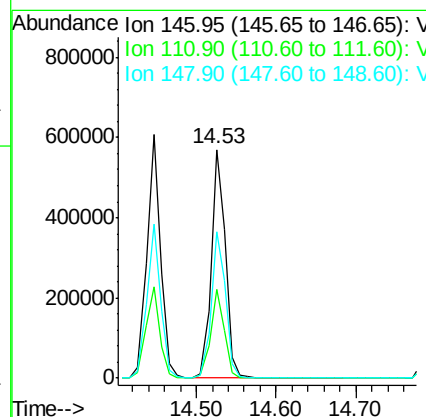
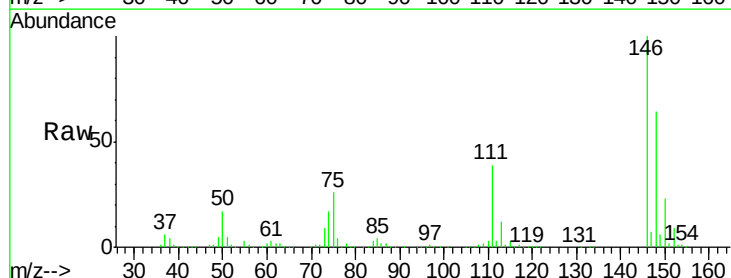
RT: 14.53 min Scan# 1331

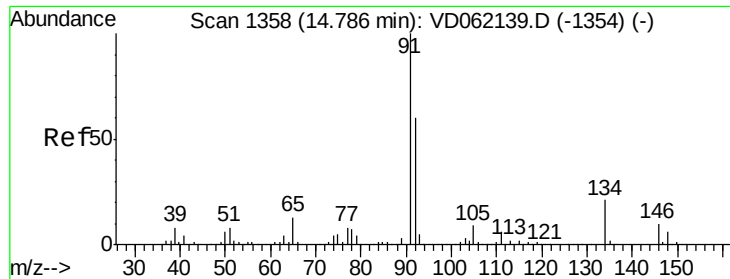
Delta R.T. -0.00 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion:	146	Resp:	703164
Ion Ratio	Lower	Upper	
146	100		
111	38.7	20.2	60.5
148	64.2	32.0	96.2





#89

n-Butylbenzene

Concen: 47.846 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1229285

Ion Ratio Lower Upper

91 100

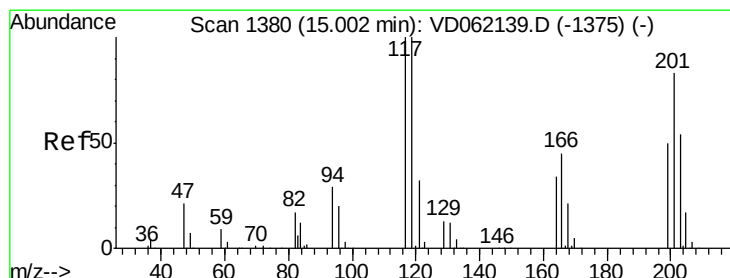
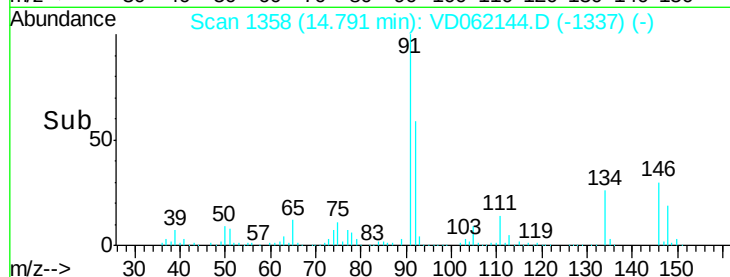
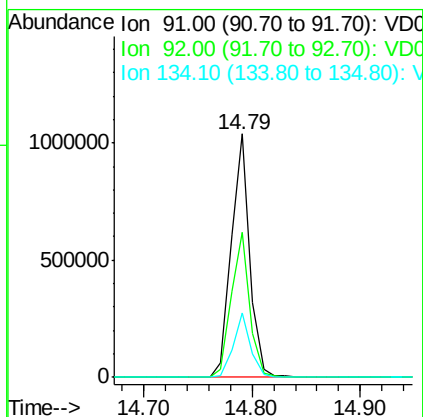
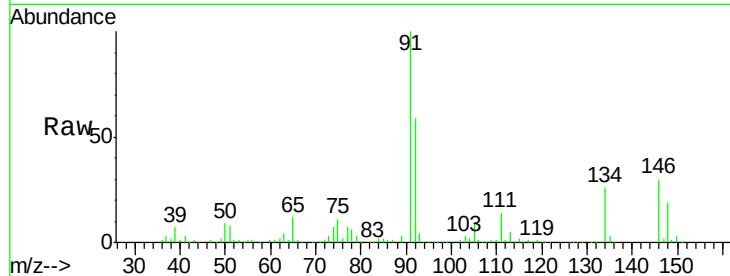
92 59.4 30.3 91.0

134 26.2 14.5 43.6

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#90

Hexachloroethane

Concen: 47.020 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.00 min

Lab File: VD062144.D

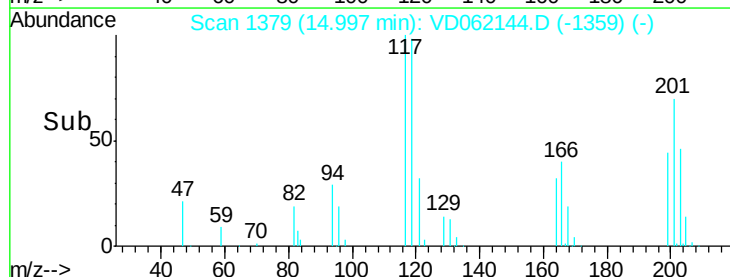
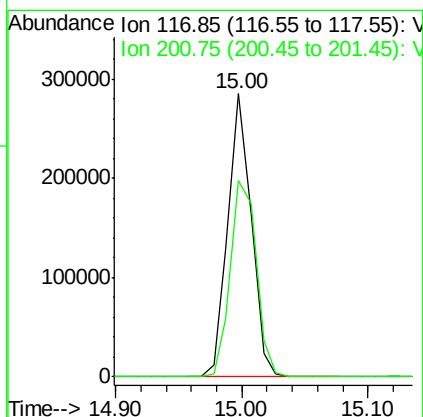
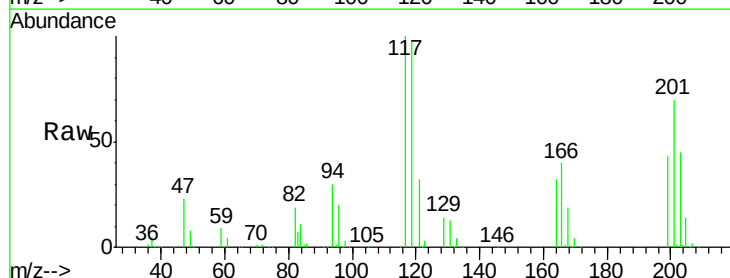
Acq: 7 May 2019 20:24

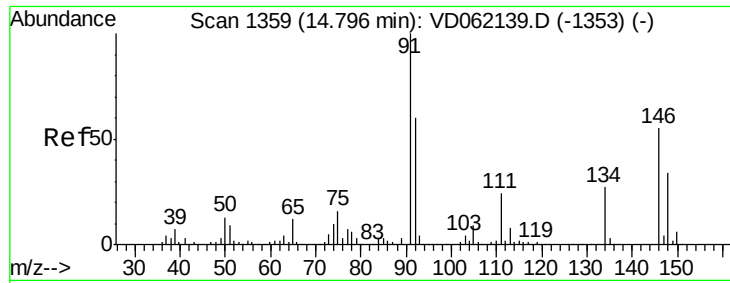
Tgt Ion: 117 Resp: 366015

Ion Ratio Lower Upper

117 100

201 69.5 30.2 90.6





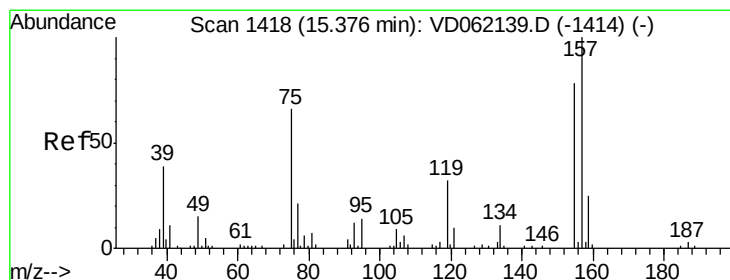
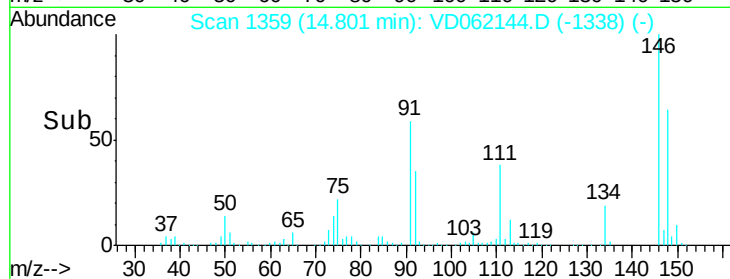
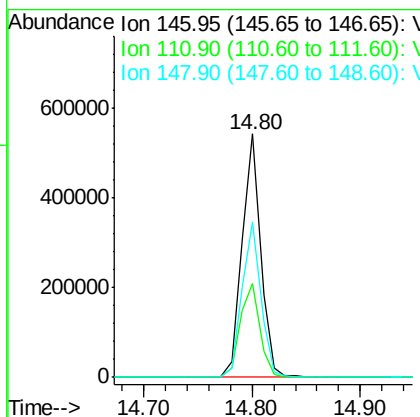
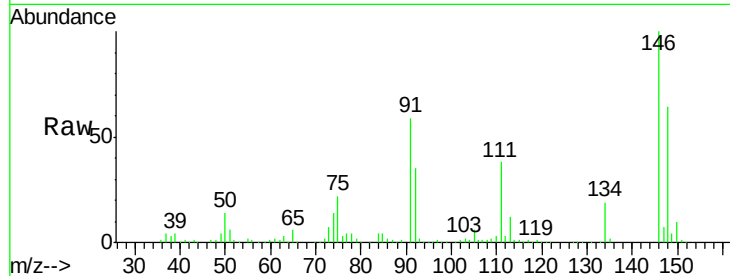
#91
 1,2-Dichlorobenzene
 Concen: 50.260 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	20.0	59.9
148	63.8	32.3	96.8

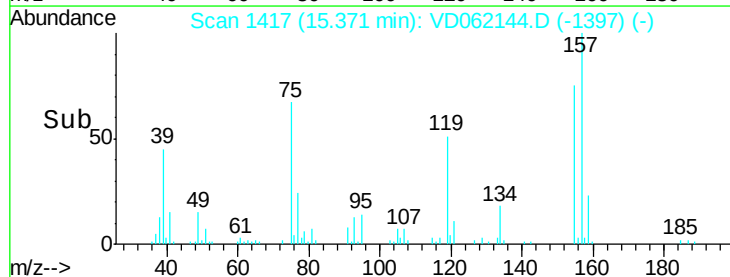
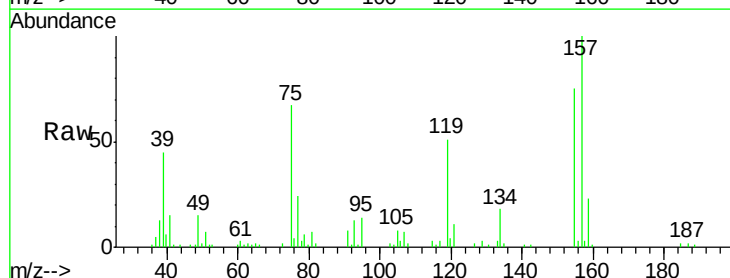
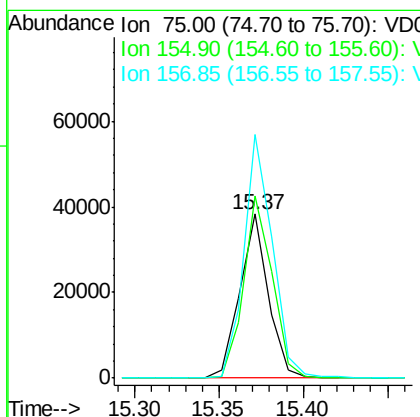
Manual Integrations
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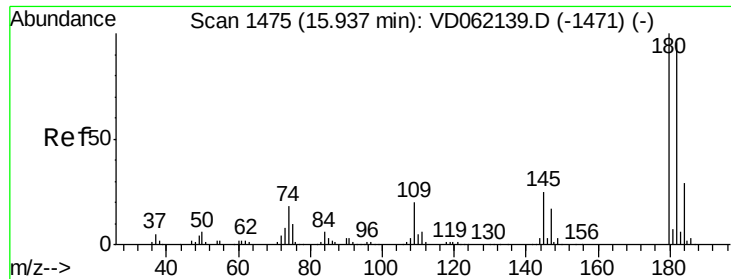
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.741 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	111.1	55.3	165.8
157	148.7	67.8	203.2





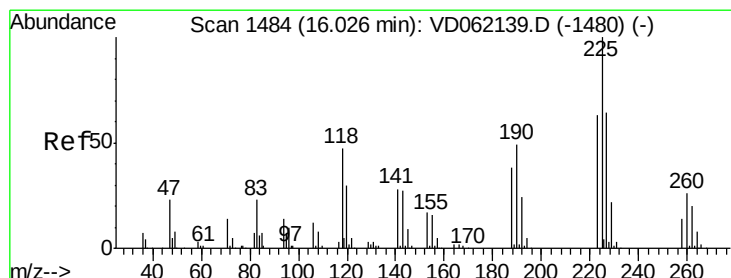
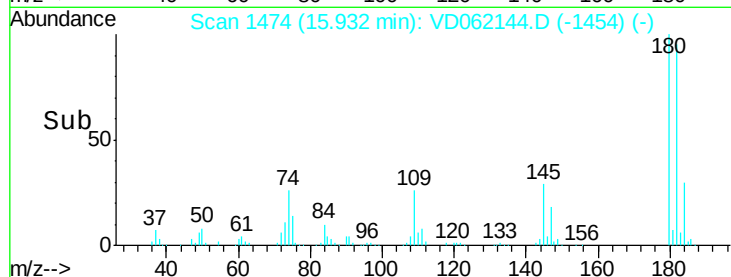
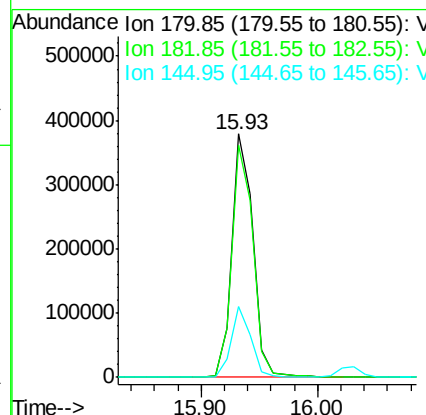
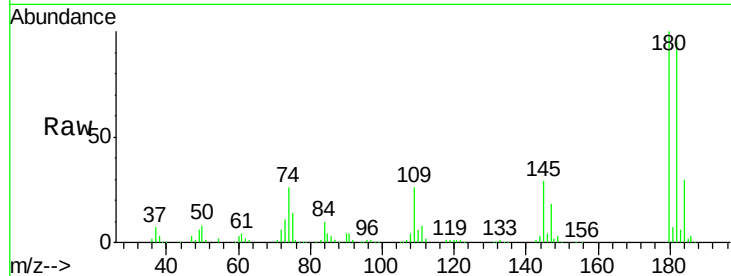
#93
 1,2,4-Trichlorobenzene
 Concen: 50.254 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	475600		
182	95.4	49.3	147.8	
145	29.2	16.2	48.6	

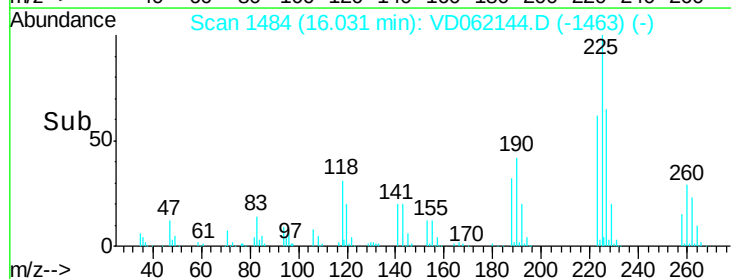
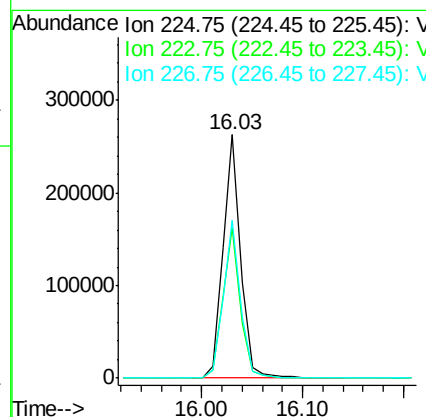
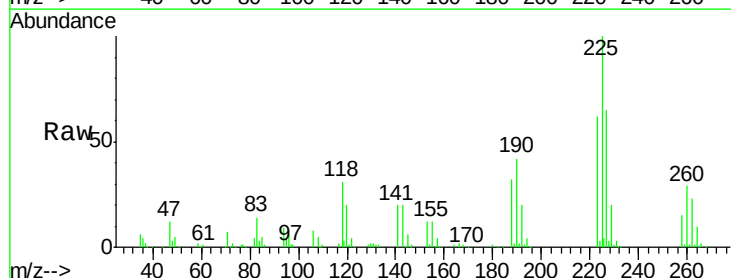
Manual Integrations
 APPROVED

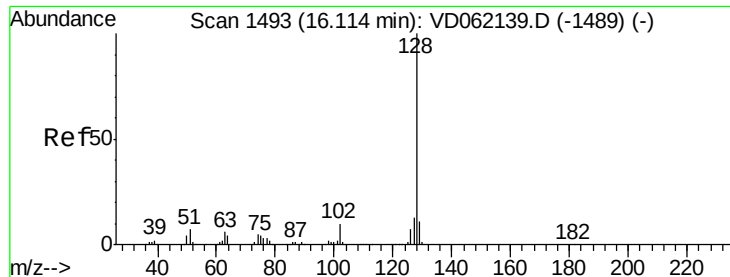
MMDadoda
 5/9/2019 12:56:37 AM



#94
 Hexachlorobutadiene
 Concen: 45.853 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. 0.01 min
 Lab File: VD062144.D
 Acq: 7 May 2019 20:24

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	322756		
223	61.6	30.6	92.0	
227	64.6	32.0	96.2	





#95

Naphthalene

Concen: 53.546 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Instrument :

MSVOA_D

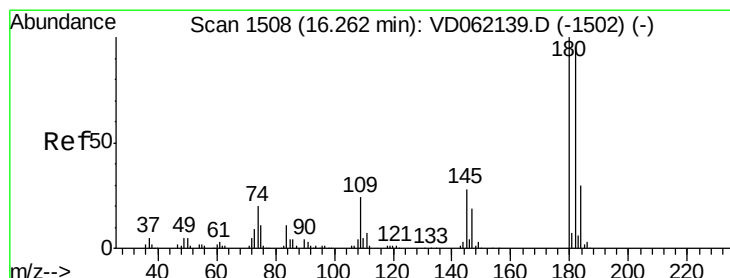
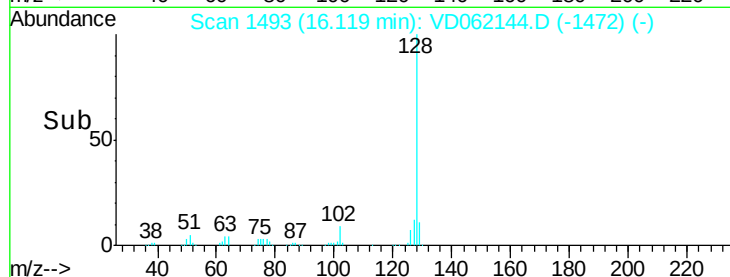
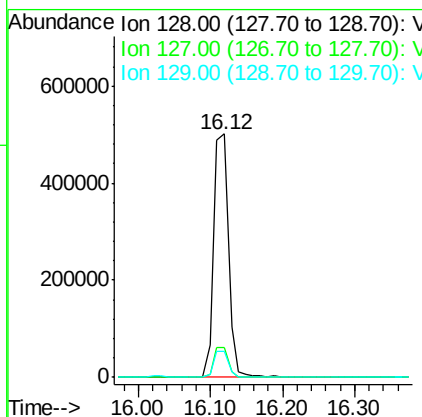
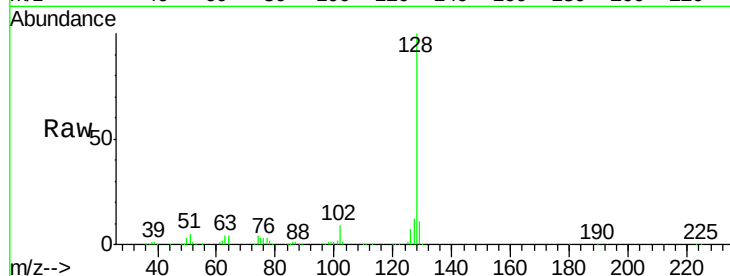
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	707477
Ion Ratio	Lower	Upper	
128	100		
127	12.4	9.8	14.8
129	10.6	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/9/2019 12:56:37 AM



#96

1,2,3-Trichlorobenzene

Concen: 55.138 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VD062144.D

Acq: 7 May 2019 20:24

Tgt Ion:	180	Resp:	328087
Ion Ratio	Lower	Upper	
180	100		
182	94.8	47.0	141.0
145	25.1	17.0	51.0

