

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032176.D
 Acq On : 2 Jul 2018 10:00
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:04 PM

Quant Time: Jul 03 05:05:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1461780	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.39	114	4047441	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.34	117	3851878m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2869441	9.75	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1608755	8.36	ppbv	99
3) Chlorodifluoromethane	3.07	51	1683104	9.42	ppbv	95
4) Chloromethane	3.23	50	925229	9.70	ppbv	98
5) Vinyl Chloride	3.35	62	918132	9.53	ppbv	99
6) Bromomethane	3.58	94	530647	9.67	ppbv	97
7) Chloroethane	3.67	64	323186	9.49	ppbv	99
8) Dichlorotetrafluoroethane	3.28	85	2014349	9.38	ppbv	93
9) Propene	3.09	41	738466	8.87	ppbv	98
10) Heptane	8.34	43	2387412	9.84	ppbv	98
11) Trichlorofluoromethane	4.07	101	1946699	9.35	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1248722	9.00	ppbv	93
13) Ethanol	3.72	45	174065	6.90	ppbv	96
14) Bromoethene	3.85	108	625017	9.47	ppbv	99
15) Acetone	3.97	43	1487033	8.70	ppbv	99
16) 1,3-Butadiene	3.42	39	839368	10.29	ppbv	90
17) tert-Butyl alcohol	4.43	59	892310	8.20	ppbv	98
18) 1,1-Dichloroethene	4.42	96	596922	9.00	ppbv	96
19) Isopropyl Alcohol	4.09	45	1192130	8.39	ppbv #	41
20) Methylene Chloride	4.48	84	523365	8.38	ppbv	94
21) Allyl Chloride	4.55	41	1050328	9.00	ppbv	96
22) trans-1,2-Dichloroethene	5.04	96	664248	9.58	ppbv	98
23) Vinyl Acetate	5.23	43	2866530	9.25	ppbv	99
24) 1,1-Dichloroethane	5.17	63	1931958	9.73	ppbv	99
25) Ethyl Acetate	5.85	43	3261935	9.22	ppbv	99
26) Hexane	5.86	57	1502813	9.23	ppbv	97
27) Carbon Disulfide	4.69	76	1572254	9.71	ppbv	100
28) Methyl tert-Butyl Ether	5.19	73	2632405	9.15	ppbv	100
29) Chloroform	5.94	83	2348495	9.91	ppbv	98
30) Cyclohexane	7.34	84	1598461	10.41	ppbv	98
31) cis-1,2-Dichloroethene	5.72	61	1621999	9.97	ppbv	92
32) 1,1,1-Trichloroethane	6.71	97	2685342	10.81	ppbv	98
34) 2-Butanone	5.41	43	2262691	8.81	ppbv	99
35) Carbon Tetrachloride	7.23	117	2658383	9.60	ppbv	95
36) Benzene	7.10	78	3847090	9.82	ppbv	99
37) 1,2-Dichloroethane	6.50	62	1854445	9.50	ppbv	97
38) Trichloroethene	8.06	130	1277201	8.35	ppbv	95
39) 1,2-Dichloropropane	7.83	63	1481719	9.59	ppbv	97
40) 1,4-Dioxane	8.05	88	512042	8.45	ppbv #	1
41) Tetrahydrofuran	6.23	42	1338170	8.69	ppbv	97
42) Bromodichloromethane	8.01	83	2992374	9.78	ppbv	96
43) Methyl Methacrylate	8.23	69	1593007	9.81	ppbv	97

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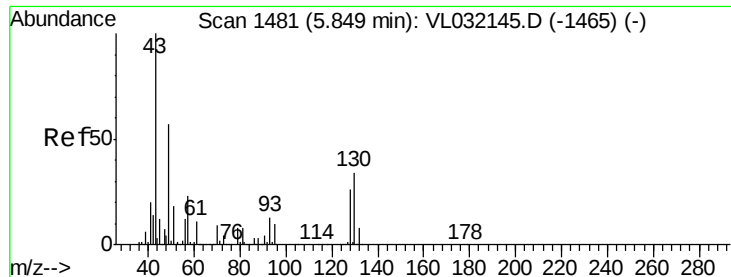
Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:04 PM

Quant Time: Jul 03 05:05:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	6220701	9.08	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	1980129	9.84	ppbv	100
46) cis-1,3-Dichloropropene	8.93	75	2324594	9.68	ppbv	99
47) 1,1,2-Trichloroethane	9.72	97	1489713	9.28	ppbv	99
48) Dibromochloromethane	10.56	129	2338642	9.41	ppbv	100
49) Bromoform	13.30	173	1880307	9.03	ppbv	100
50) 4-Methyl-2-Pentanone	8.97	43	3850309	9.15	ppbv	100
51) 2-Hexanone	10.37	43	3244348	9.30	ppbv #	99
52) Tetrachloroethene	11.48	164	1142621	8.02	ppbv	97
53) Toluene	10.05	91	4347640	9.18	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2247032	9.31	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	1590508	9.25	ppbv	97
57) Chlorobenzene	12.40	112	3069801	9.20	ppbv	98
58) Ethyl Benzene	12.97	91	5776576	9.31	ppbv	95
59) m/p-Xylene	13.25	91	9276354m	18.64	ppbv	
60) o-Xylene	13.95	91	4394197	8.85	ppbv	96
61) Styrene	13.79	104	3716827	9.14	ppbv	95
62) Isopropylbenzene	14.93	105	6317533	8.28	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	3126782	8.14	ppbv	99
64) n-propylbenzene	15.83	120	1654367m	8.38	ppbv	
65) tert-Butylbenzene	17.01	119	5551867	8.28	ppbv	93
66) Benzyl Chloride	17.26	91	3566656	8.61	ppbv	95
67) sec-Butylbenzene	17.56	105	8272057	8.43	ppbv	98
69) p-Isopropyltoluene	17.92	119	6461700	8.20	ppbv	96
70) n-Butylbenzene	18.82	91	7352035	8.94	ppbv	99
71) 2-Chlorotoluene	15.72	91	5036510	8.57	ppbv	95
72) 4-Ethyltoluene	16.11	105	5460208	8.52	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	5174518	8.57	ppbv	95
74) 1,2,4-Trimethylbenzene	17.03	105	5356704	8.79	ppbv	96
75) 1,3-Dichlorobenzene	17.27	146	2921978	8.43	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	3028687	8.62	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2953851	8.53	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1725729	14.31	ppbv	99
79) Naphthalene	22.53	128	5318521	9.60	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2662161	13.32	ppbv	96
81) 1,2,4-Trichlorobenzene	22.26	180	2475965	9.90	ppbv	98

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



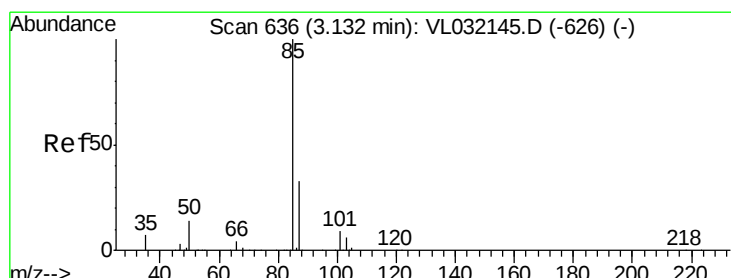
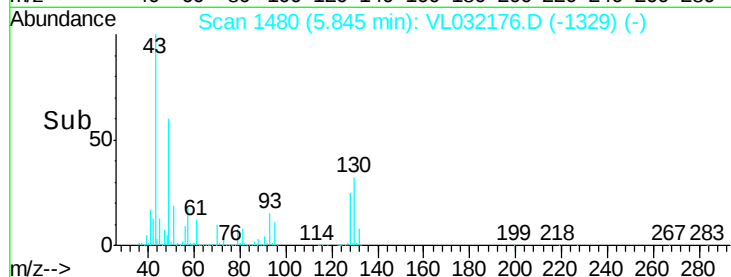
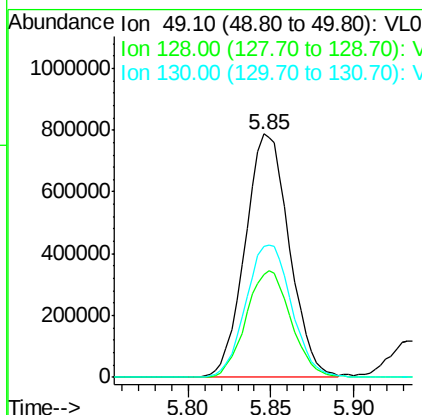
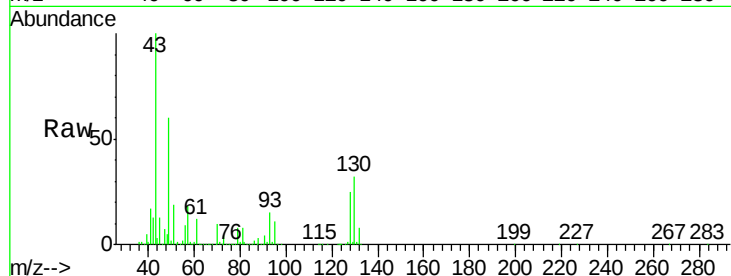
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
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ClientSampleId :
VSTDCCC010

Tot Ion: 49 Resp: 1461780
Ion Ratio Lower Upper
49 100
128 44.8 23.4 70.0
130 56.6 30.3 90.9

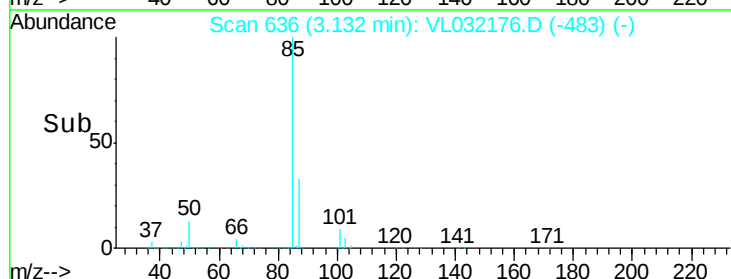
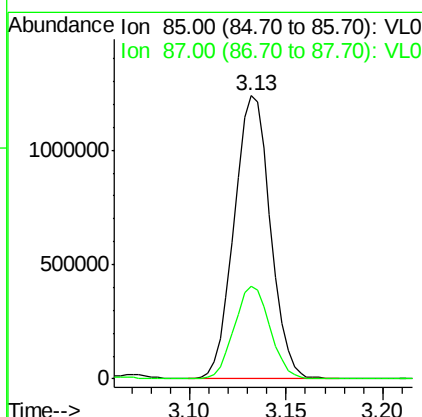
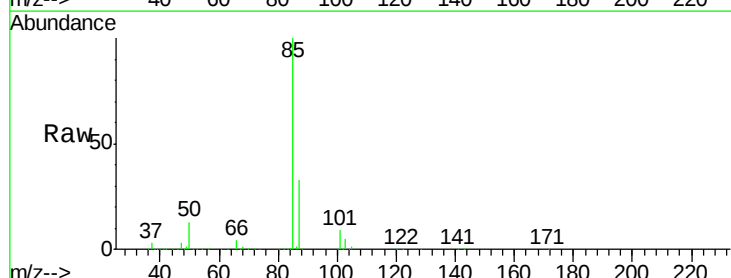
Manual Integrations
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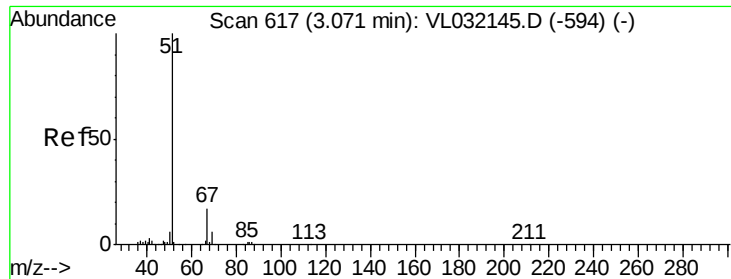
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#2
Dichlorodifluoromethane
Concen: 8.36 ppbv
RT: 3.13 min Scan# 636
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 85 Resp: 1608755
Ion Ratio Lower Upper
85 100
87 32.7 26.7 40.1





#3

Chlorodifluoromethane

Concen: 9.42 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1683104

Ion Ratio Lower Upper

51 100

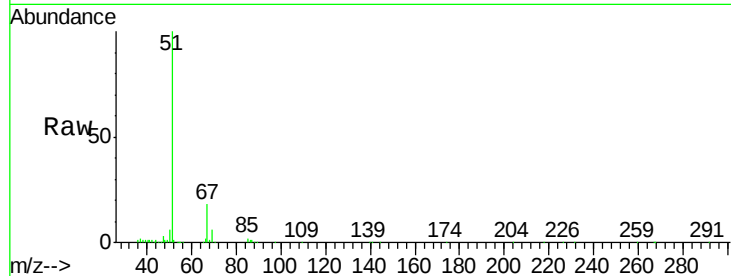
67 18.8 13.2 19.8

Manual Integrations

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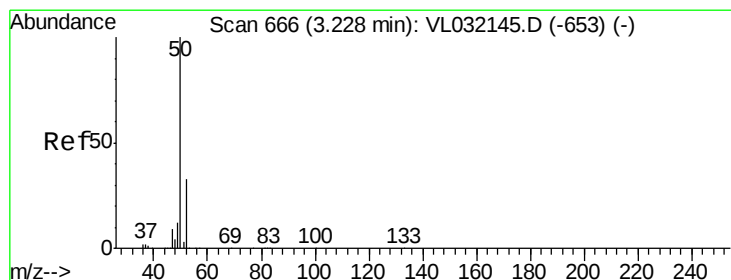
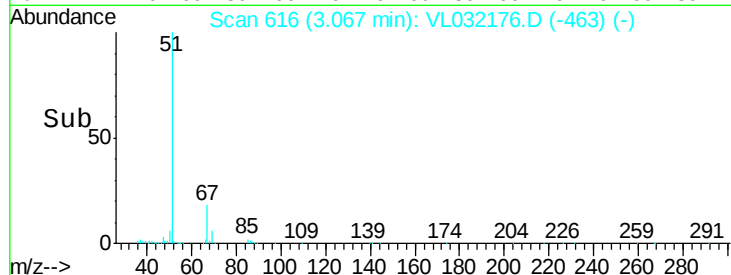
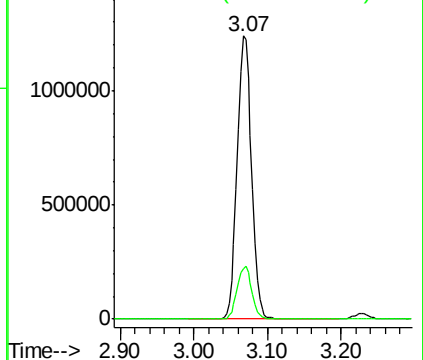
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.70 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032176.D

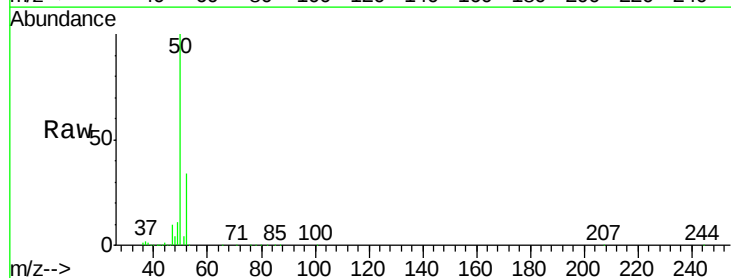
Acq: 2 Jul 2018 10:00

Tgt Ion: 50 Resp: 925229

Ion Ratio Lower Upper

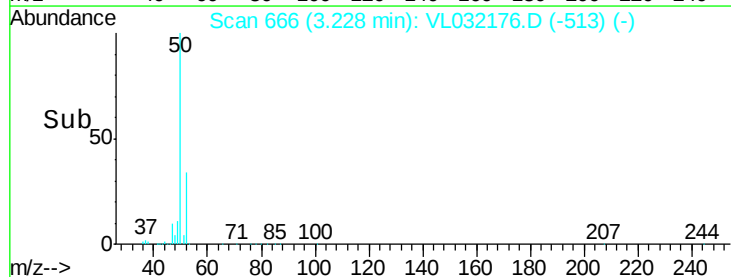
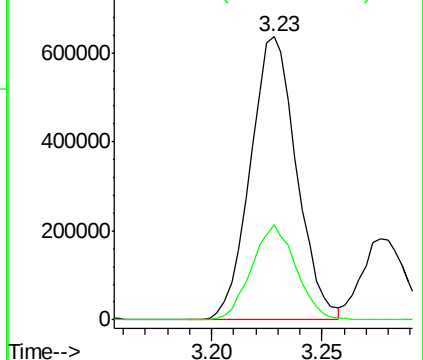
50 100

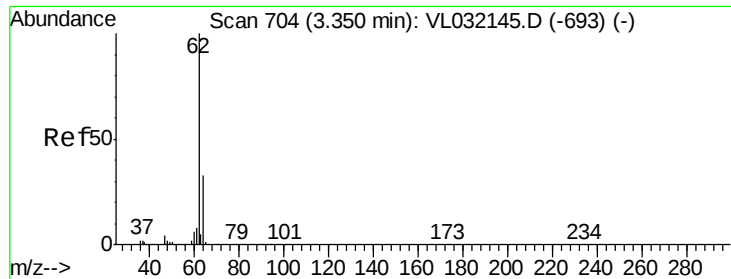
52 33.8 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.53 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 918132

Ion Ratio Lower Upper

62 100

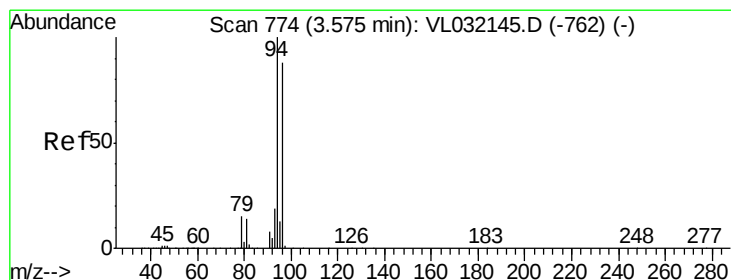
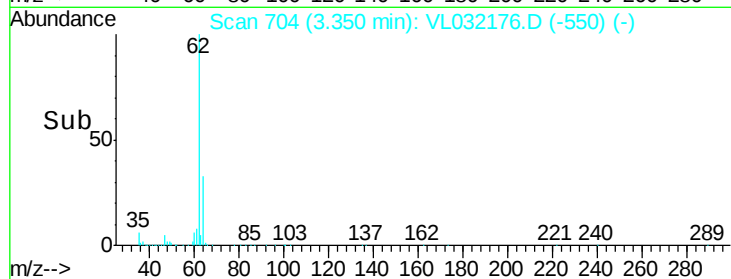
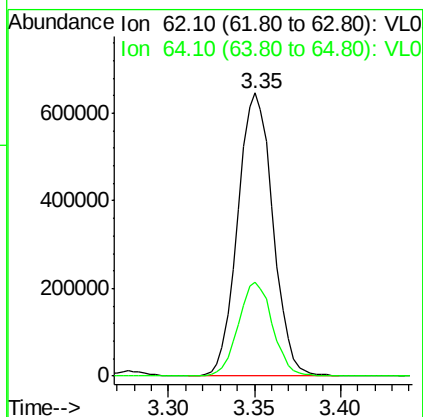
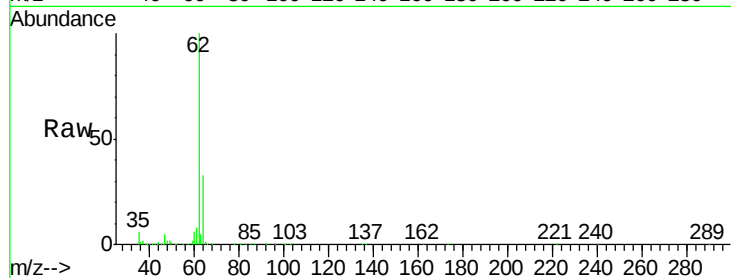
64 33.0 26.1 39.1

Manual Integrations

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#6

Bromomethane

Concen: 9.67 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032176.D

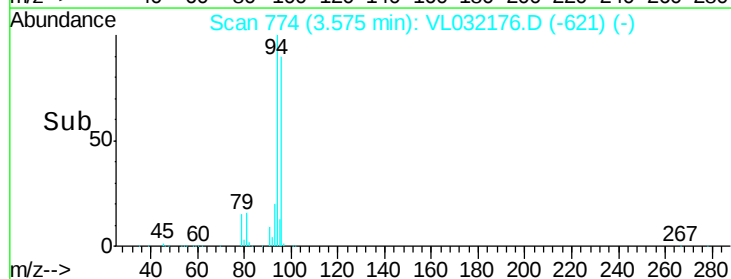
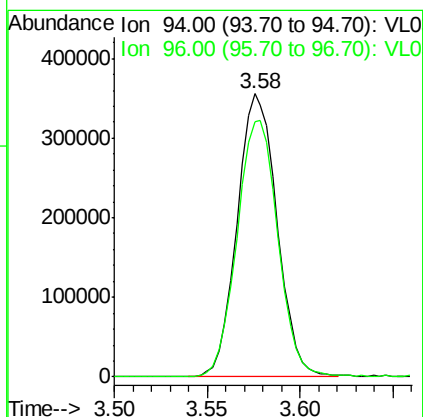
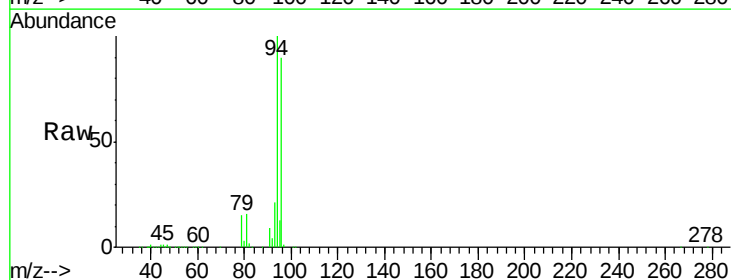
Acq: 2 Jul 2018 10:00

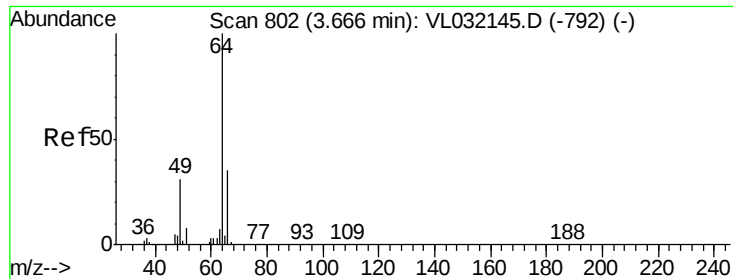
Tgt Ion: 94 Resp: 530647

Ion Ratio Lower Upper

94 100

96 90.4 74.7 112.1





#7

Chloroethane

Concen: 9.49 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 323186

Ion Ratio Lower Upper

64 100

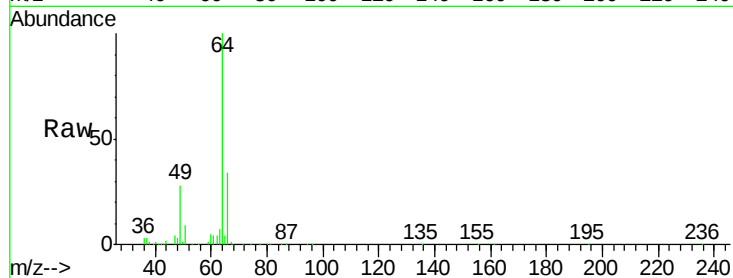
66 34.3 26.9 40.3

Manual Integrations

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7/3/2018 5:17:04 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.67

250000

200000

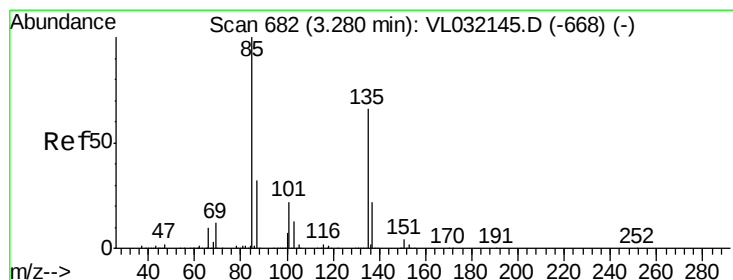
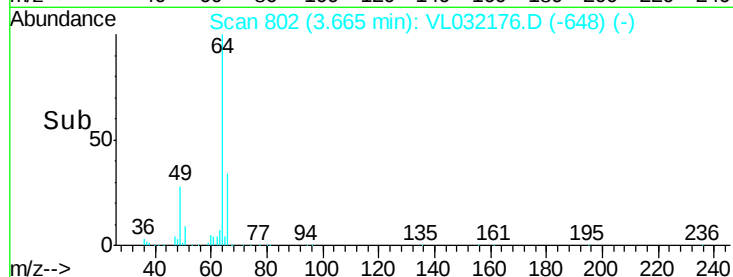
150000

100000

50000

0

Time--> 3.60 3.65 3.70



#8

Dichlorotetrafluoroethane

Concen: 9.38 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032176.D

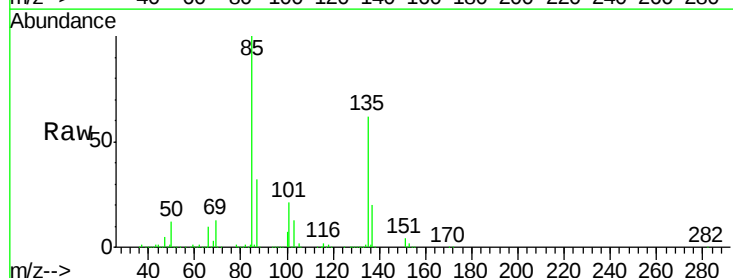
Acq: 2 Jul 2018 10:00

Tgt Ion: 85 Resp: 2014349

Ion Ratio Lower Upper

85 100

135 62.3 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.28

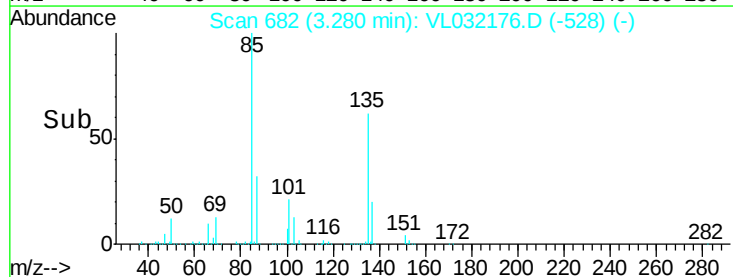
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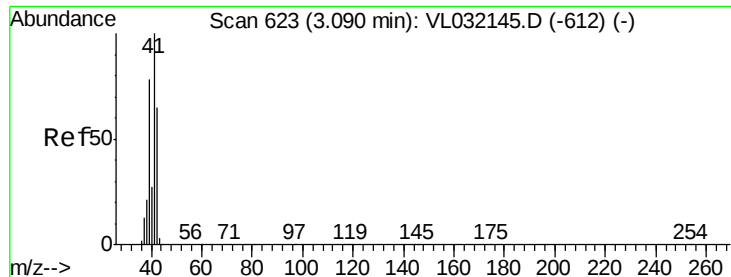
1000000

500000

0

Time--> 3.20 3.25 3.30 3.35





#9

Propene

Concen: 8.87 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 738466

Ion Ratio Lower Upper

41 100

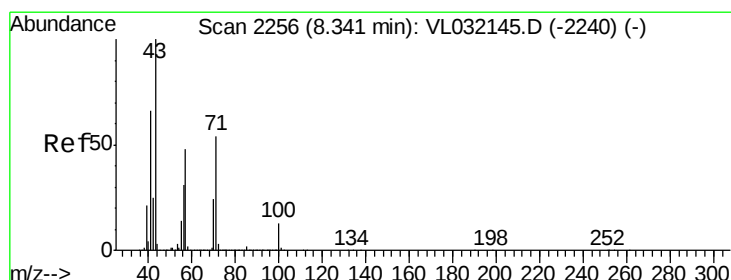
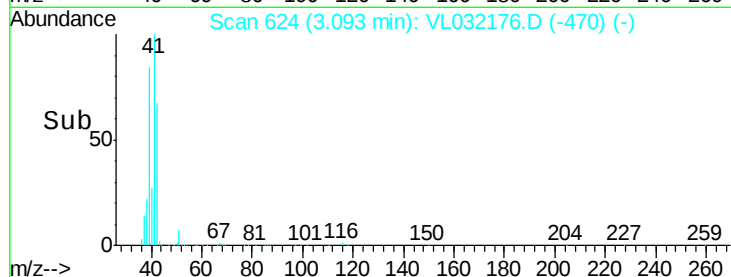
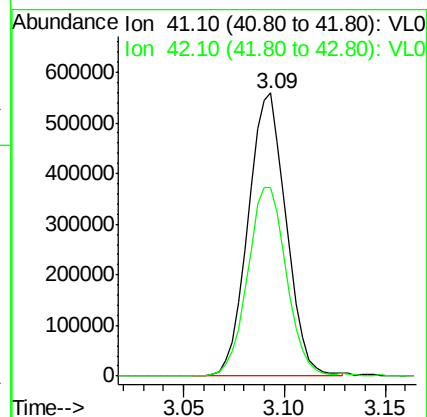
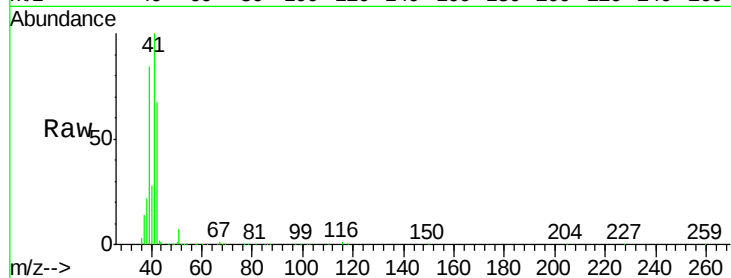
42 68.6 56.2 84.4

Manual Integrations

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7/3/2018 5:17:04 PM



#10

Heptane

Concen: 9.84 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032176.D

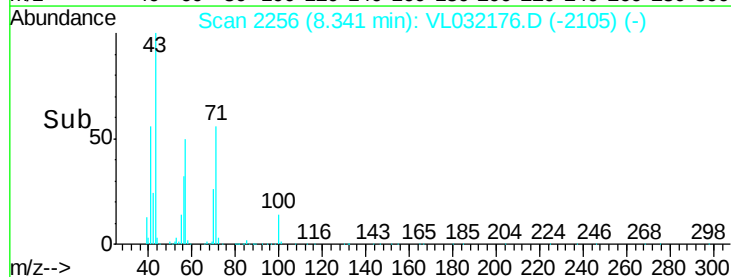
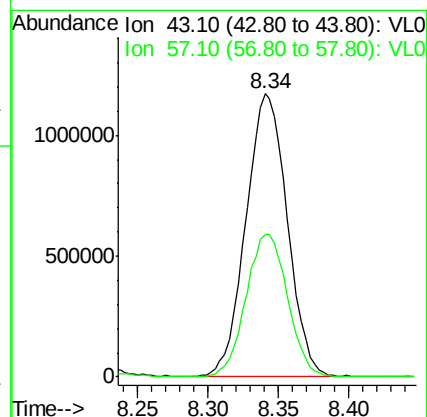
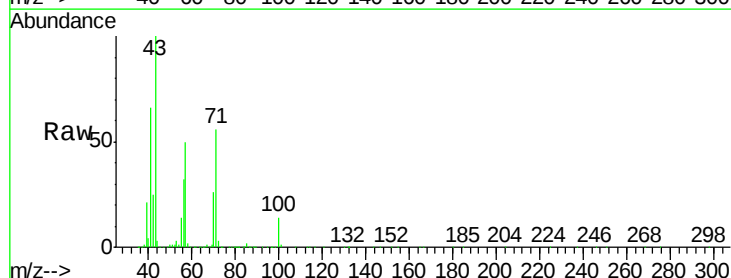
Acq: 2 Jul 2018 10:00

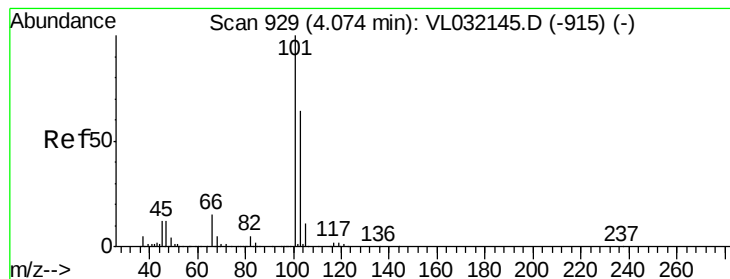
Tgt Ion: 43 Resp: 2387412

Ion Ratio Lower Upper

43 100

57 50.9 39.8 59.8





#11

Trichlorofluoromethane

Concen: 9.35 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1946699

Ion Ratio Lower Upper

101 100

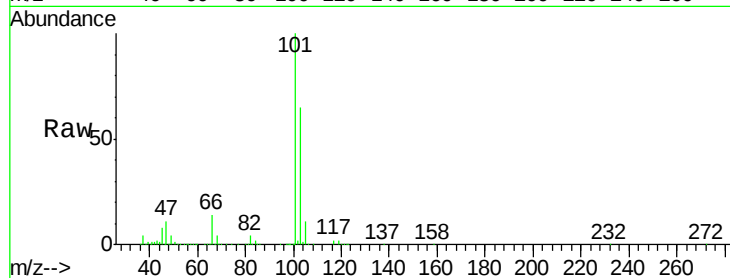
103 65.0 51.4 77.0

Manual Integrations

APPROVED

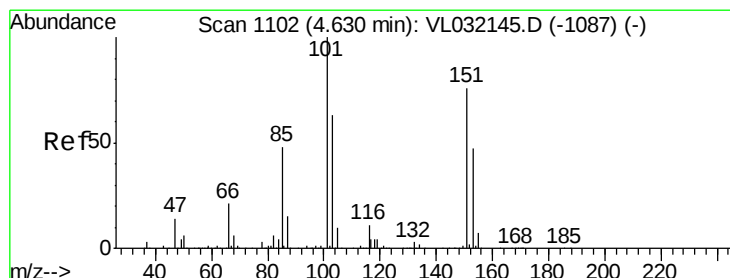
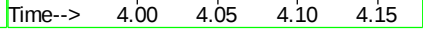
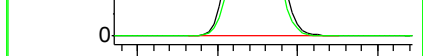
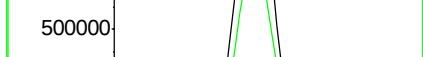
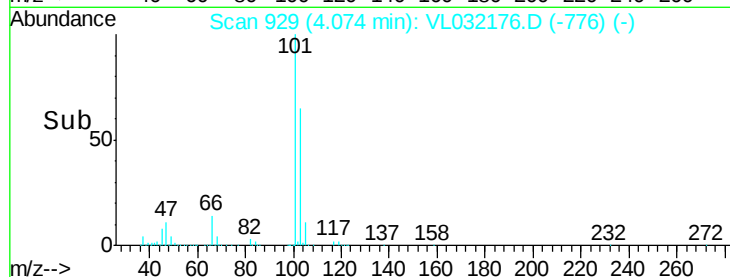
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.00 ppbv

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL032176.D

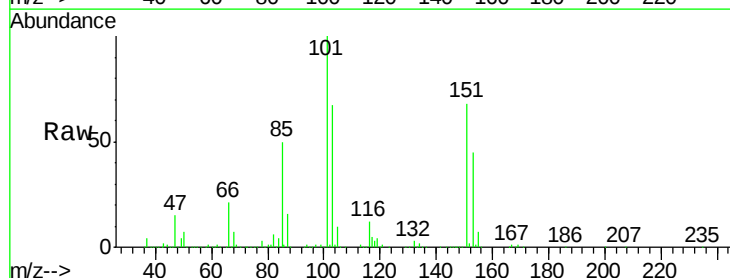
Acq: 2 Jul 2018 10:00

Tgt Ion:101 Resp: 1248722

Ion Ratio Lower Upper

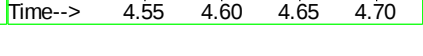
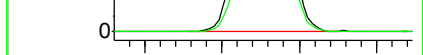
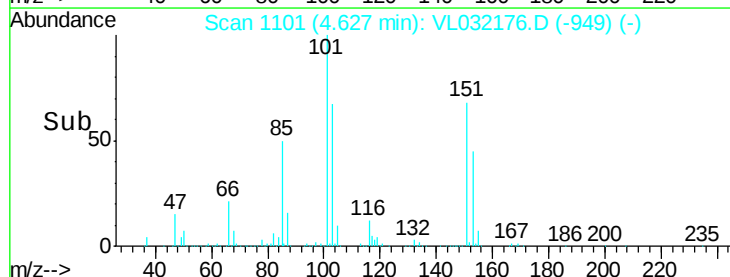
101 100

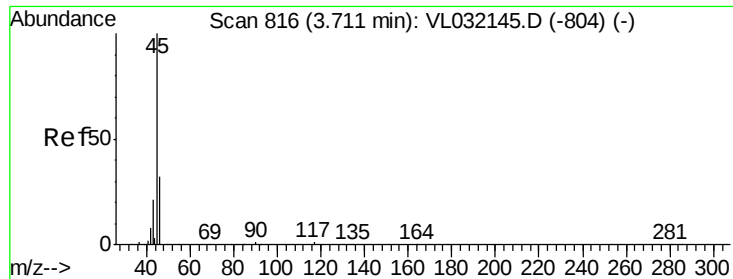
151 67.2 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





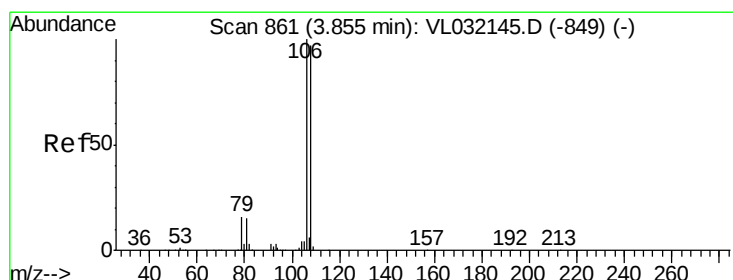
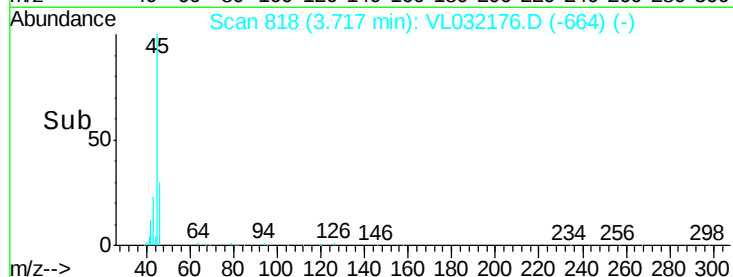
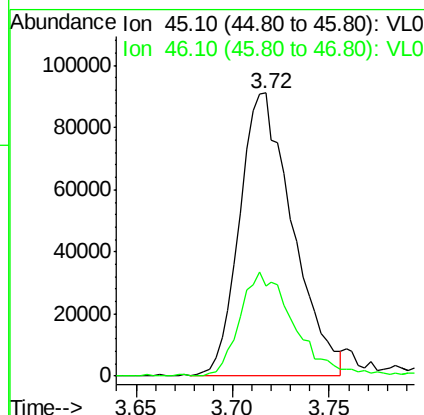
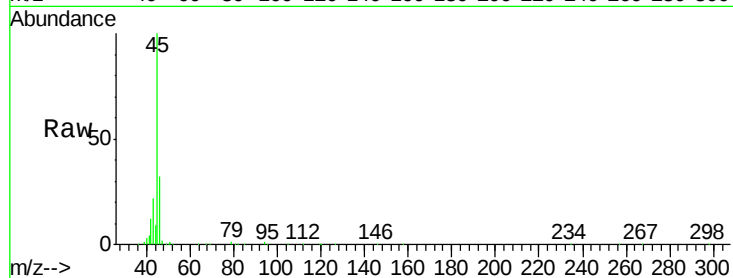
#13
Ethanol
Concen: 6.90 ppbv
RT: 3.72 min Scan# 818
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.0	14.6	58.4

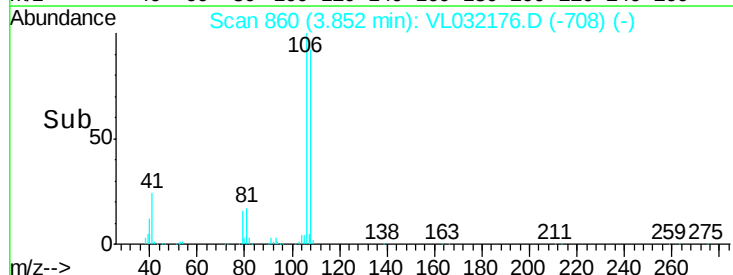
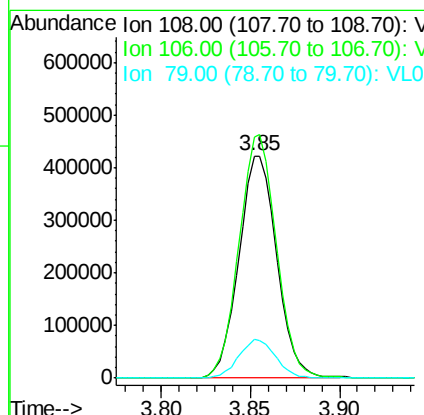
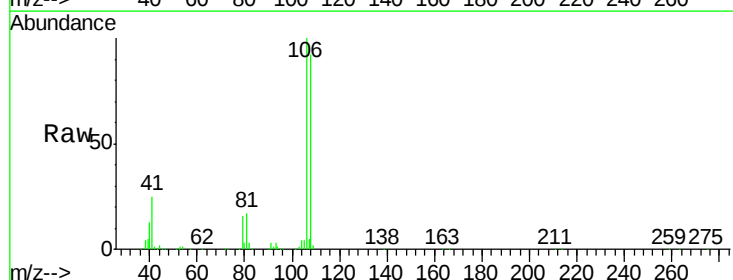
Manual Integrations
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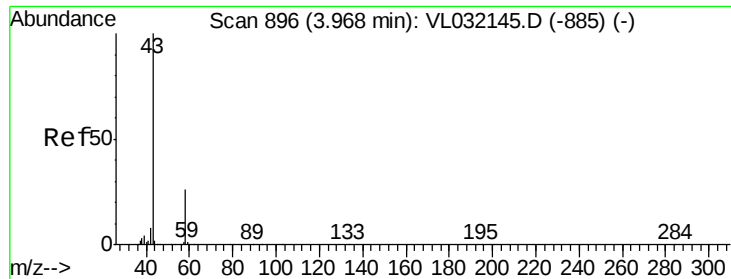
MMDadoda
7/3/2018 5:17:04 PM



#14
Bromoethene
Concen: 9.47 ppbv
RT: 3.85 min Scan# 860
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.4	86.3	129.5
79	17.3	12.7	19.1





#15

Acetone

Concen: 8.70 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1487033

Ion Ratio Lower Upper

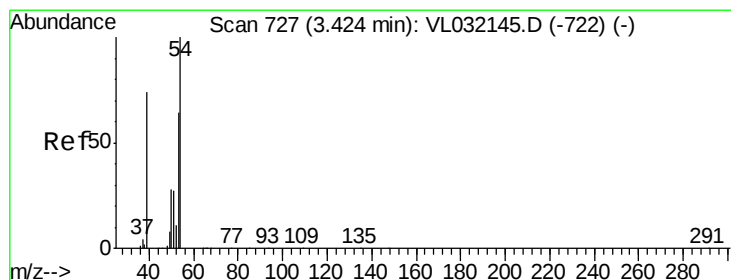
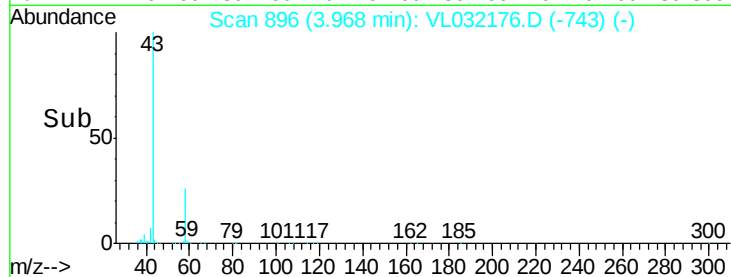
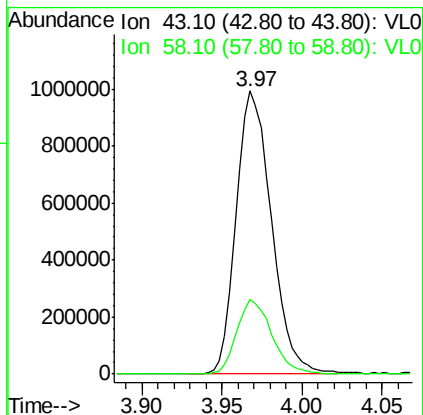
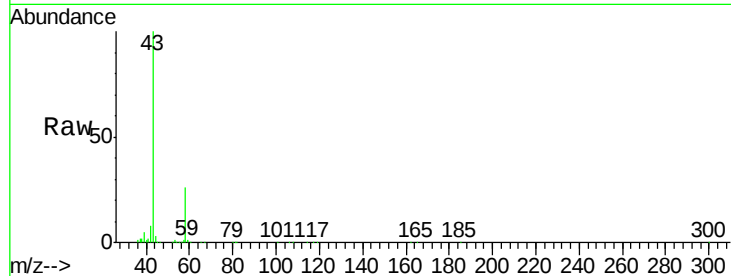
43 100

58 26.4 21.4 32.0

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7/3/2018 5:17:04 PM



#16

1,3-Butadiene

Concen: 10.29 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032176.D

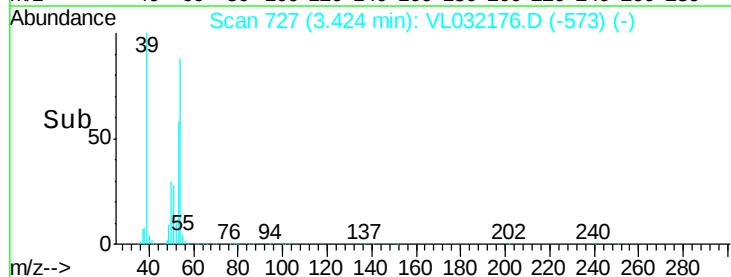
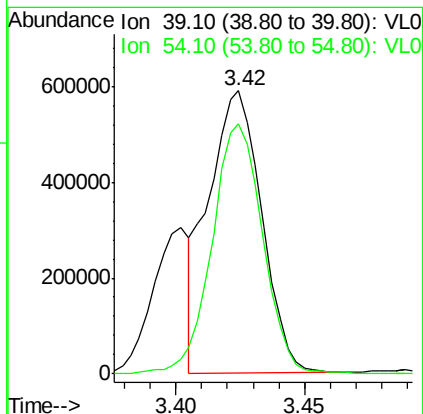
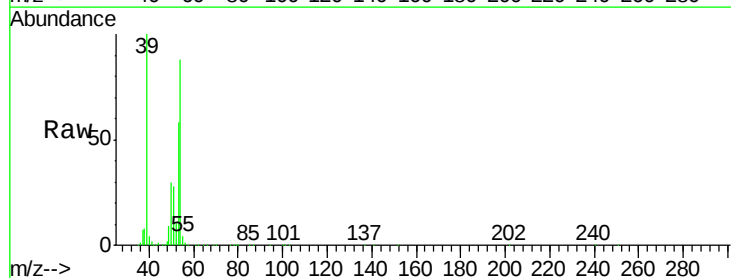
Acq: 2 Jul 2018 10:00

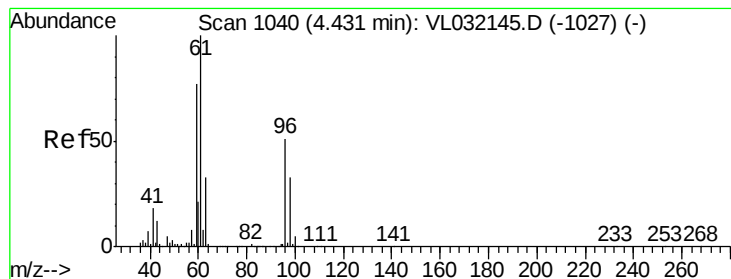
Tgt Ion: 39 Resp: 839368

Ion Ratio Lower Upper

39 100

54 85.1 75.8 113.6





#17

tert-Butyl alcohol

Concen: 8.20 ppbv

RT: 4.43 min Scan# 1040

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 59 Resp: 892310

Ion Ratio Lower Upper

59 100

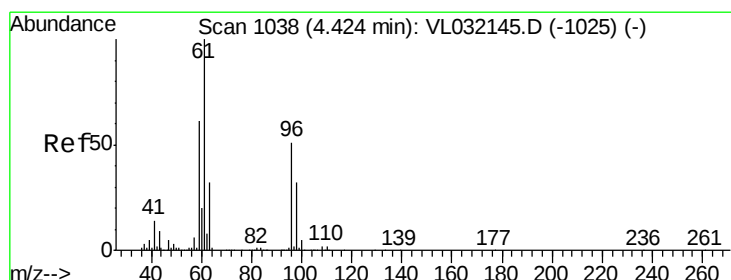
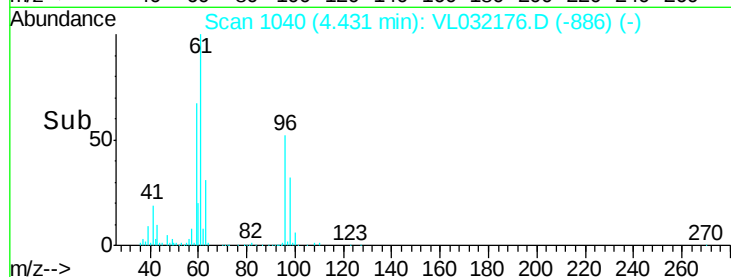
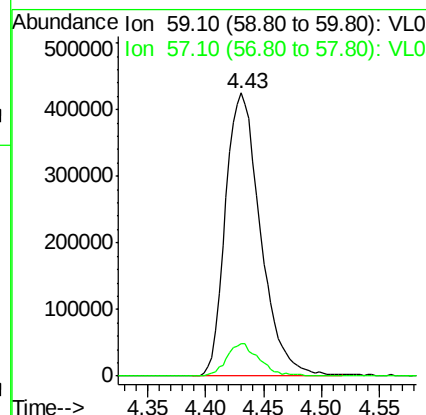
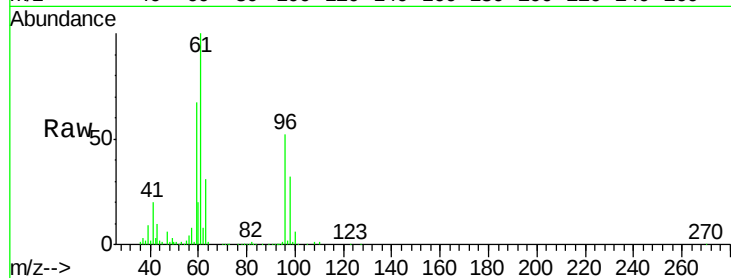
57 10.8 8.2 12.2

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7/3/2018 5:17:04 PM



#18

1,1-Dichloroethene

Concen: 9.00 ppbv

RT: 4.42 min Scan# 1038

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

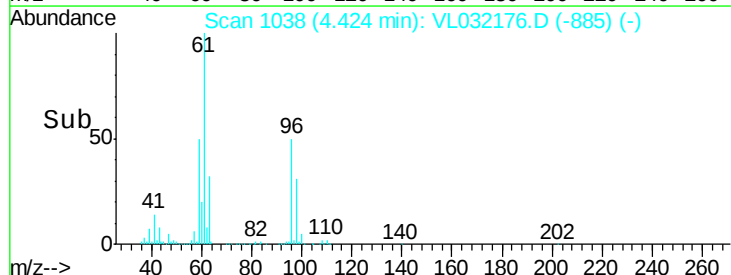
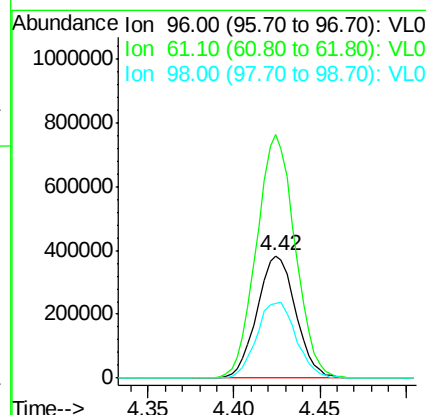
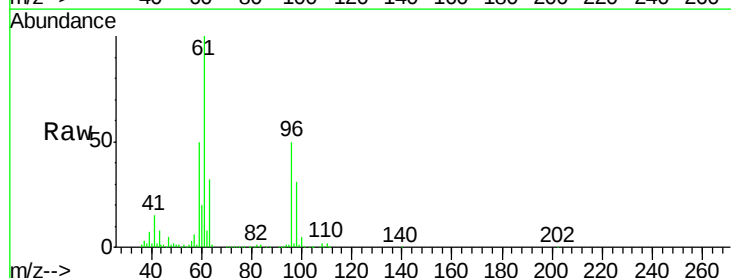
Tgt Ion: 96 Resp: 596922

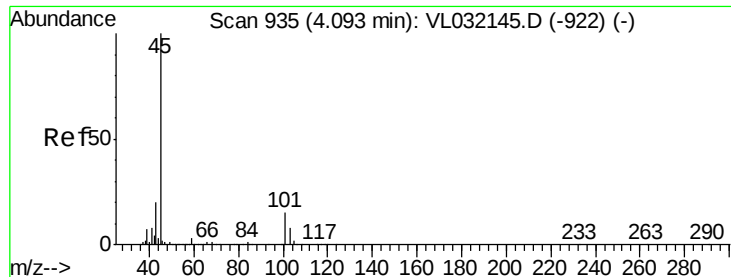
Ion Ratio Lower Upper

96 100

61 198.8 154.1 231.1

98 61.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 8.39 ppbv

RT: 4.09 min Scan# 935

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 1192130

Ion Ratio Lower Upper

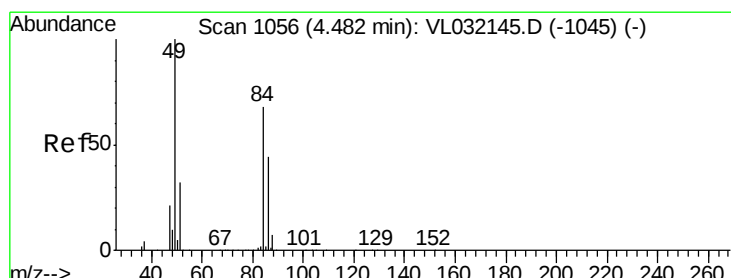
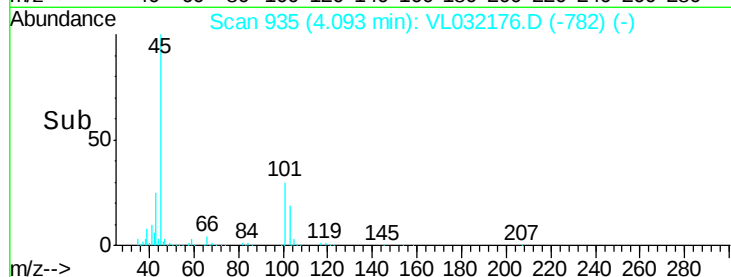
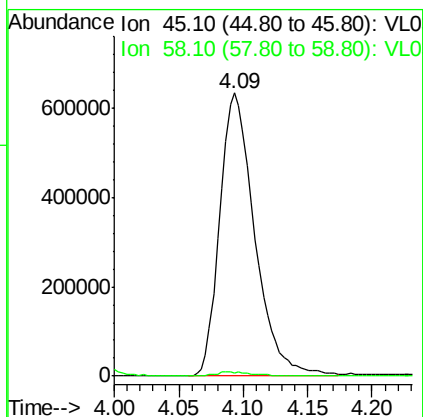
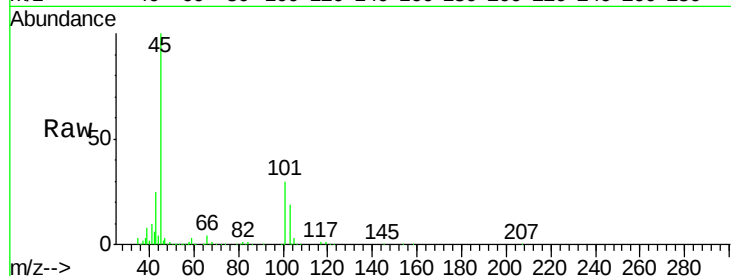
45 100

58 1.6 29.4 44.0#

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7/3/2018 5:17:04 PM



#20

Methylene Chloride

Concen: 8.38 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Tgt Ion: 84 Resp: 523365

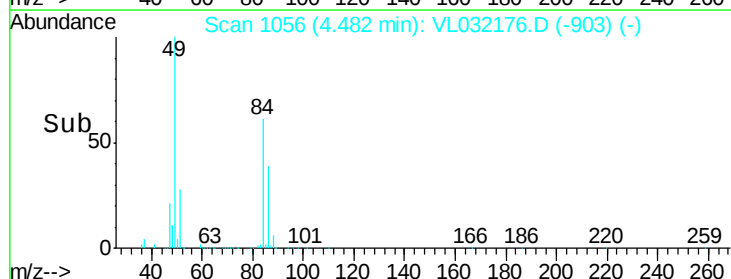
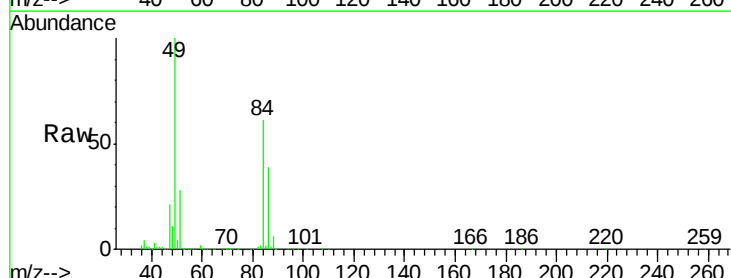
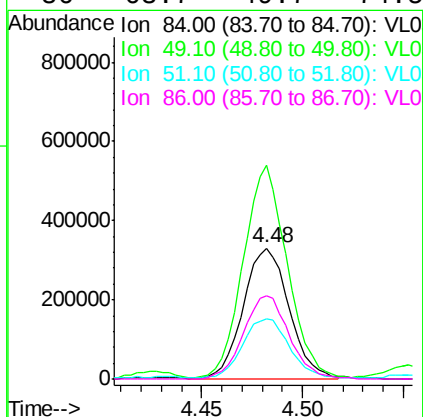
Ion Ratio Lower Upper

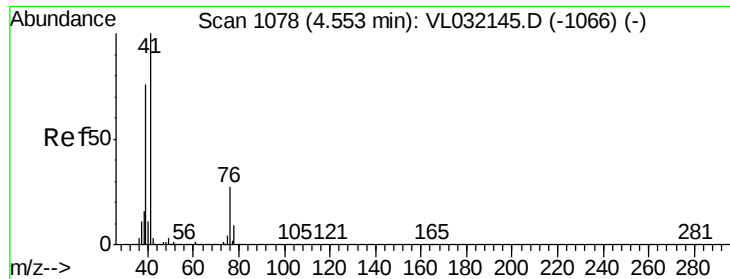
84 100

49 162.1 119.6 179.4

51 44.9 36.3 54.5

86 63.7 49.7 74.5





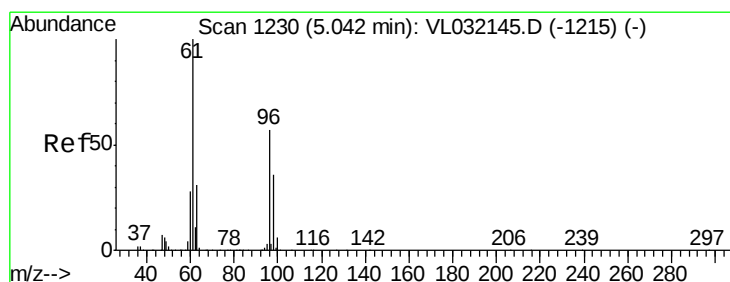
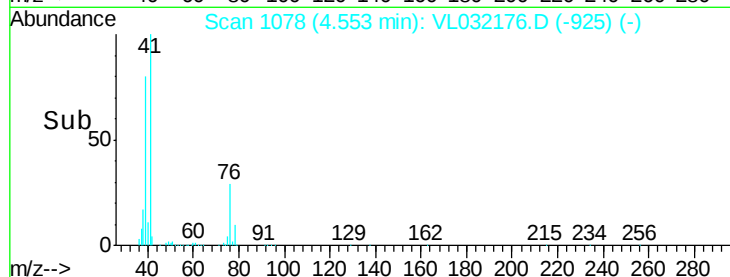
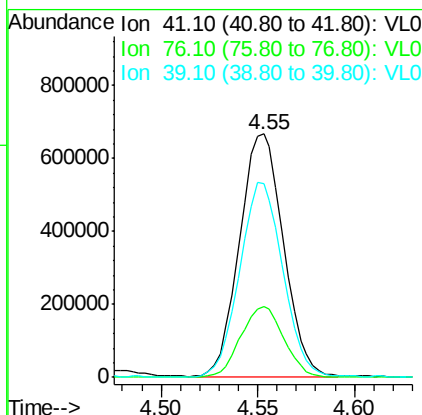
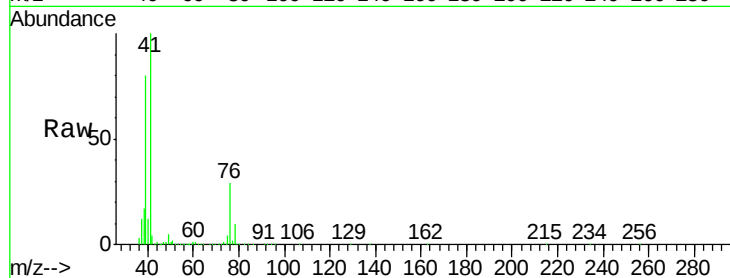
#21
Allvl Chloride
Concen: 9.00 ppbv
RT: 4.55 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 41 Resp: 1050328
Ion Ratio Lower Upper
41 100
76 28.9 22.5 33.7
39 79.3 60.5 90.7

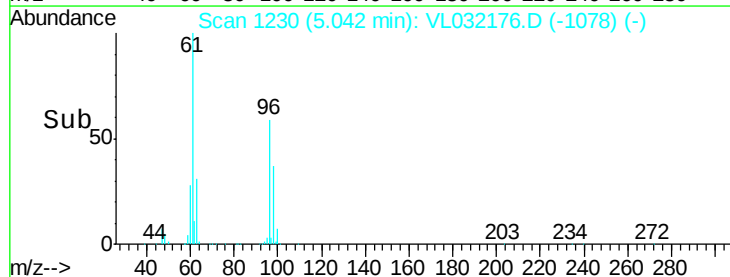
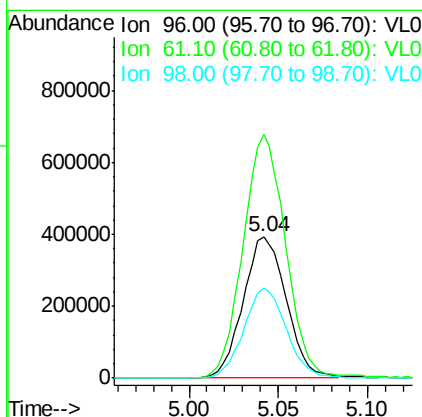
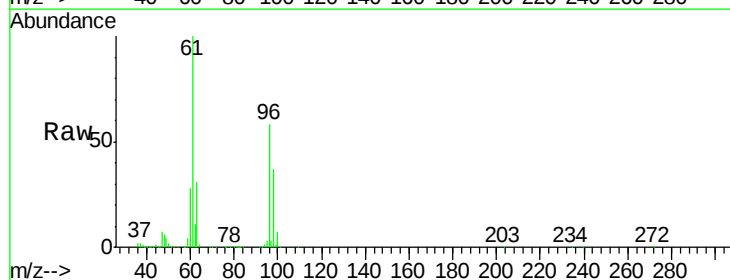
Manual Integrations
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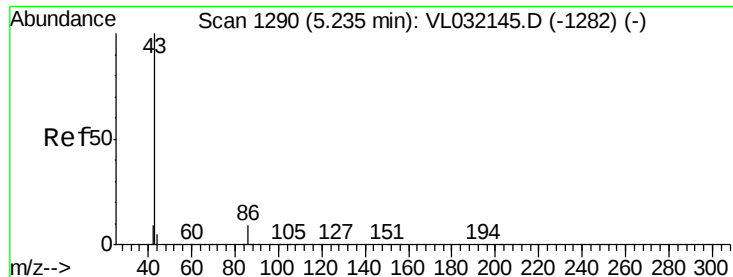
MMDadoda
7/3/2018 5:17:04 PM



#22
trans-1,2-Dichloroethene
Concen: 9.58 ppbv
RT: 5.04 min Scan# 1230
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 96 Resp: 664248
Ion Ratio Lower Upper
96 100
61 171.9 135.2 202.8
98 63.4 49.7 74.5





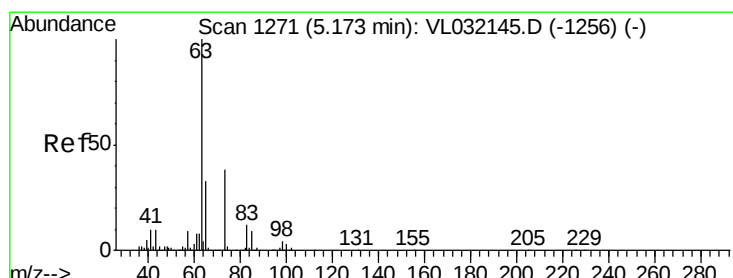
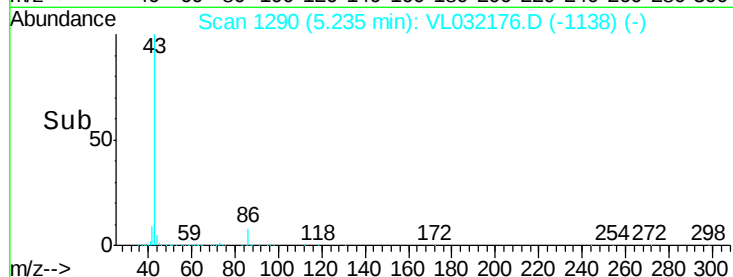
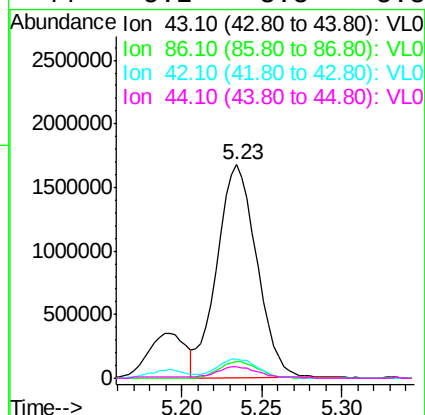
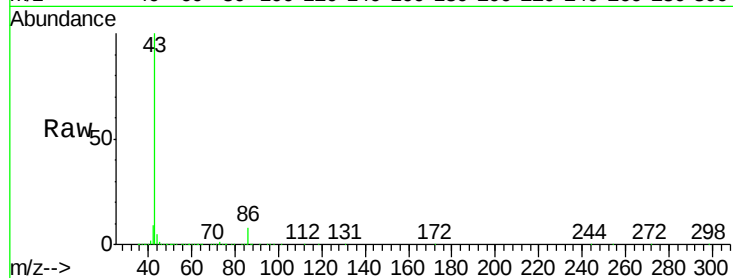
#23
 Vinyl Acetate
 Concen: 9.25 ppbv
 RT: 5.23 min Scan# 1290
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	8.1	6.2	9.4	
42	9.0	6.9	10.3	
44	5.2	3.8	5.8	

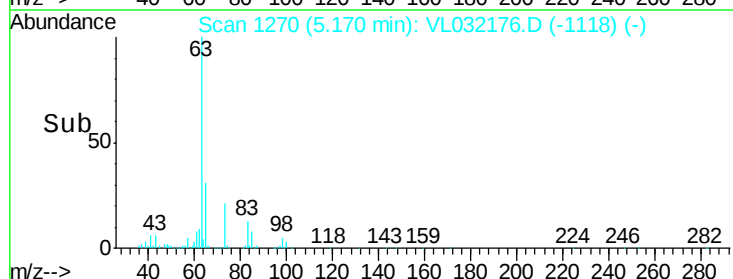
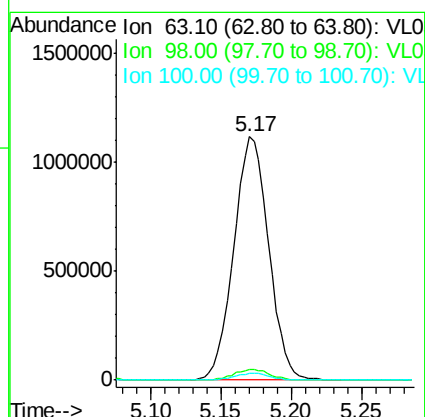
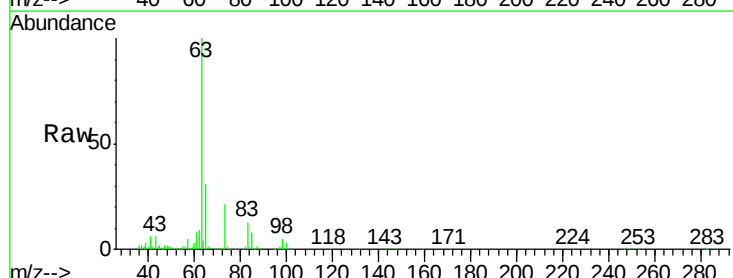
Manual Integrations
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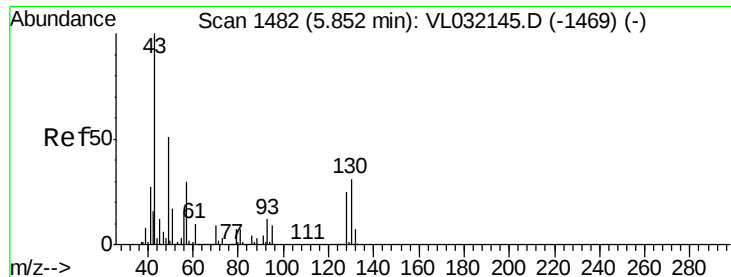
MMDadoda
 7/3/2018 5:17:04 PM



#24
 1,1-Dichloroethane
 Concen: 9.73 ppbv
 RT: 5.17 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.5	2.4	7.2	
100	2.6	1.7	5.0	





#25
Ethyl Acetate
Concen: 9.22 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

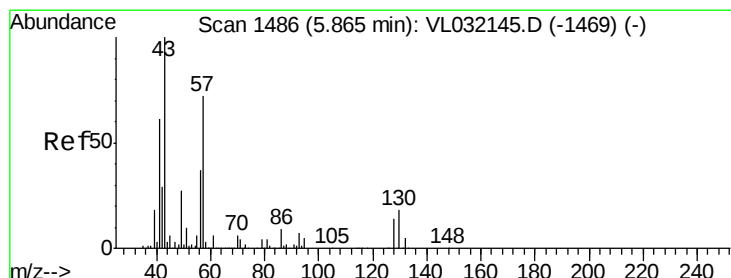
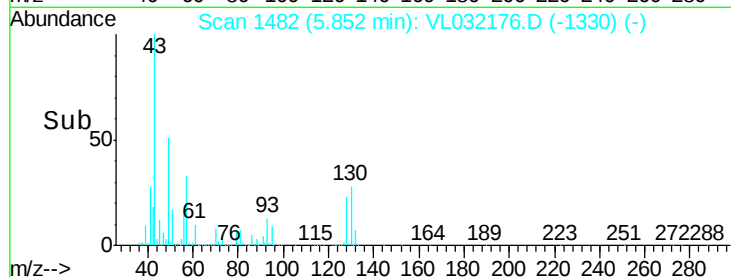
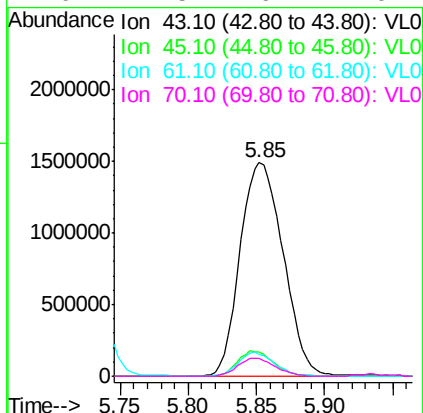
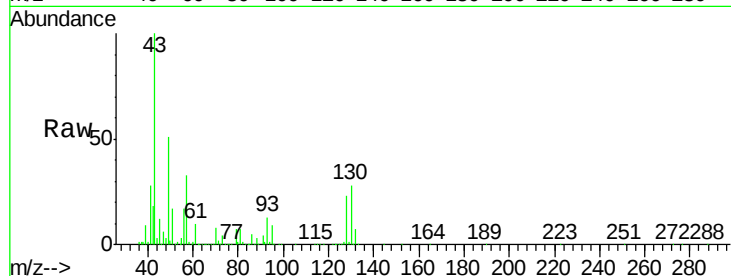
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 3261935

Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.8	11.8
61	9.7	7.4	11.0
70	7.5	6.1	9.1

Manual Integrations
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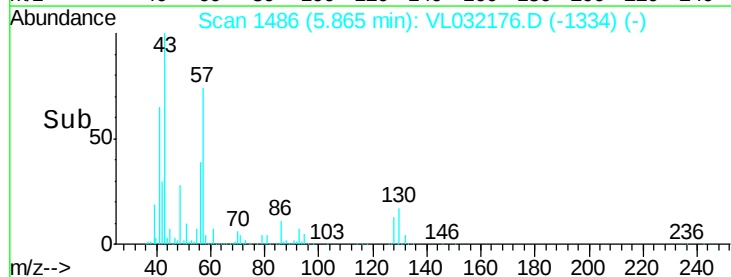
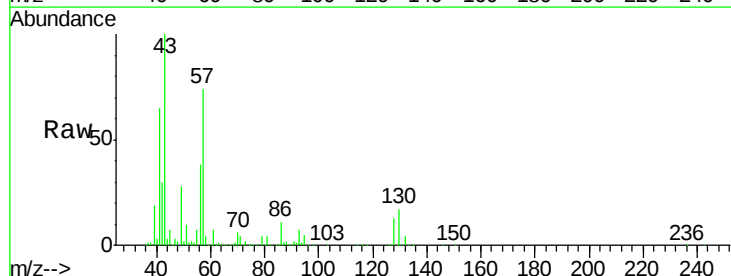
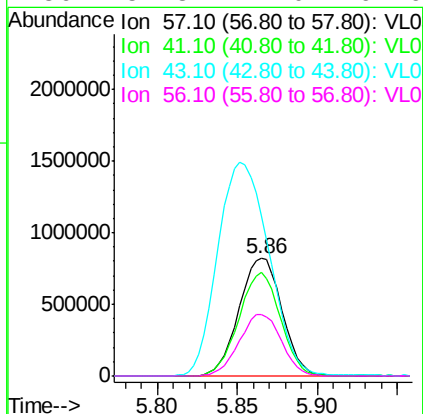
MMDadoda
7/3/2018 5:17:04 PM

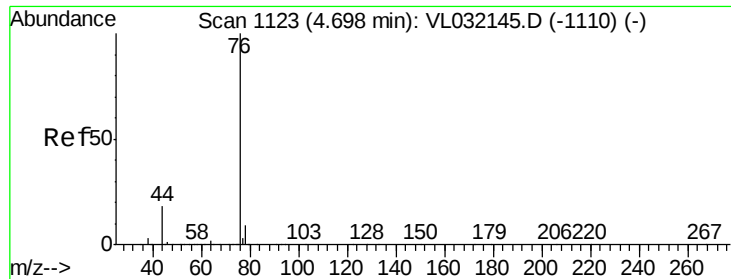


#26
Hexane
Concen: 9.23 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 57 Resp: 1502813

Ion	Ratio	Lower	Upper
57	100		
41	86.3	68.6	103.0
43	218.5	168.6	252.8
56	51.8	41.0	61.6





#27

Carbon Disulfide

Concen: 9.71 ppbv

RT: 4.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1572254

Ion Ratio Lower Upper

76 100

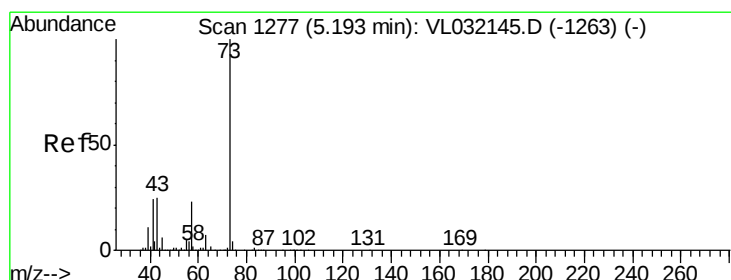
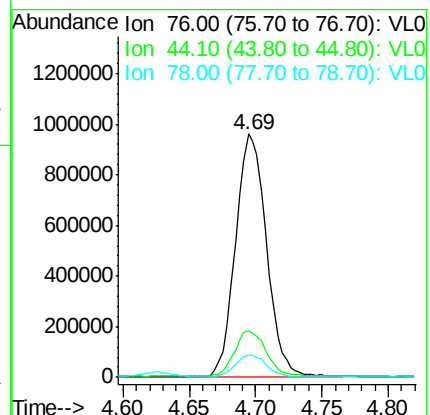
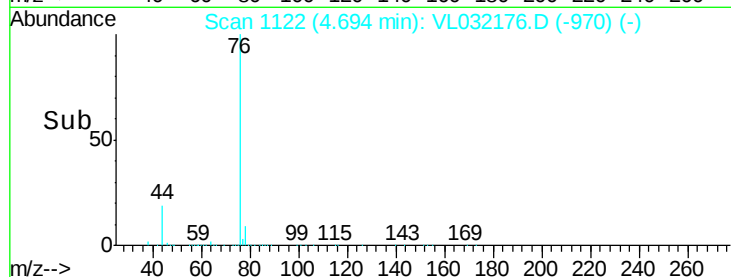
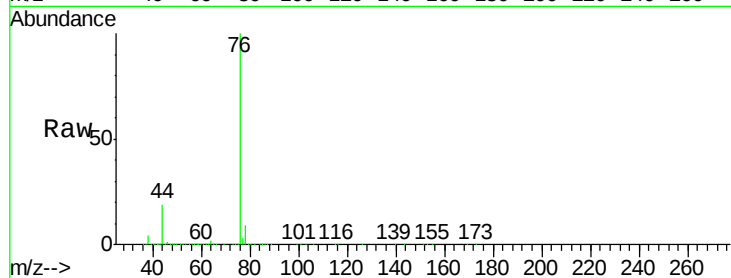
44 19.2 15.1 22.7

78 9.0 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 9.15 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032176.D

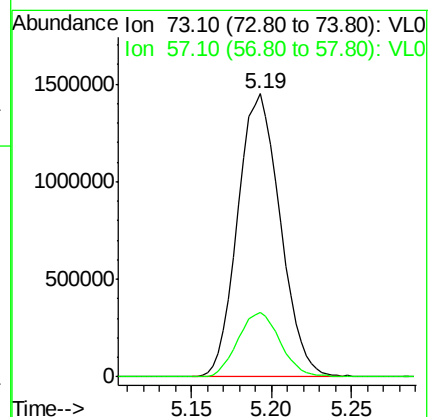
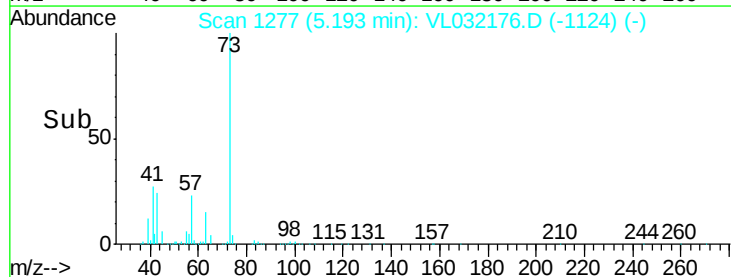
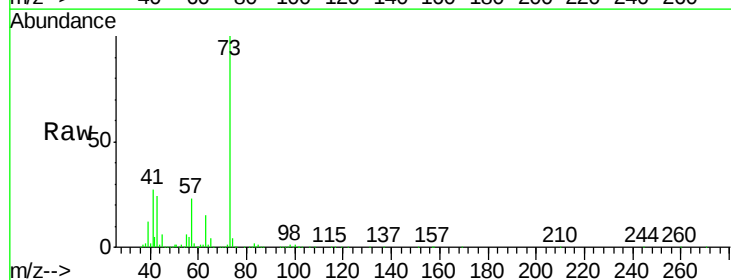
Acq: 2 Jul 2018 10:00

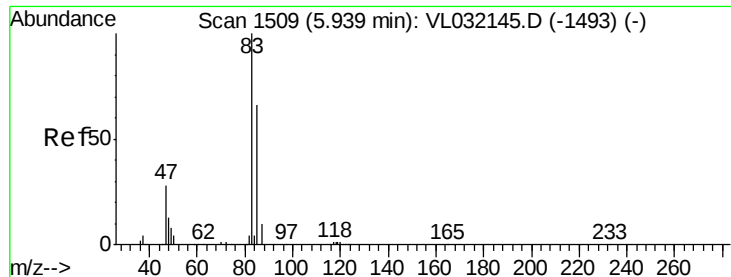
Tgt Ion: 73 Resp: 2632405

Ion Ratio Lower Upper

73 100

57 23.1 18.6 27.8





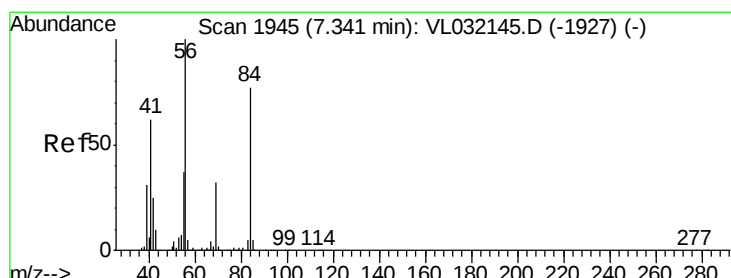
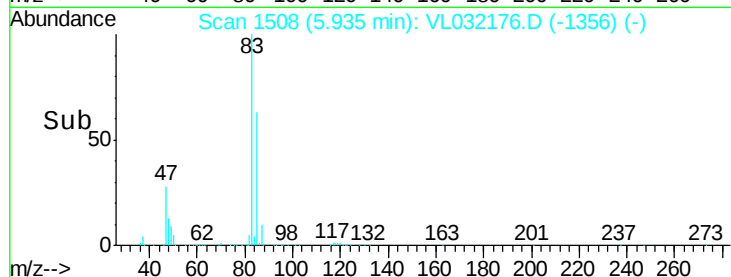
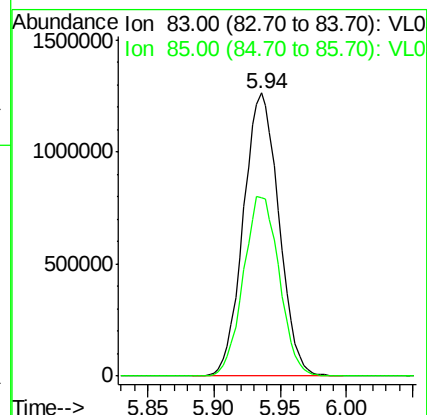
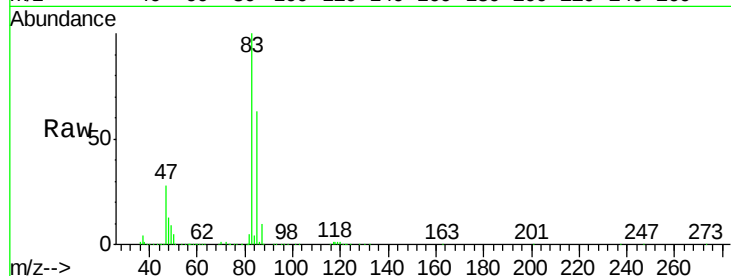
#29
Chloroform
Concen: 9.91 ppbv
RT: 5.94 min Scan# 1508
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2348495
Ion Ratio Lower Upper
83 100
85 62.8 51.6 77.4

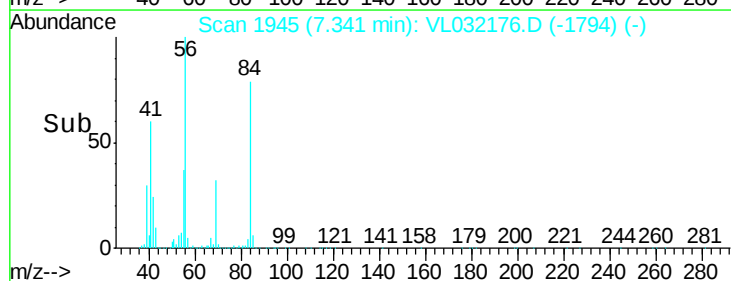
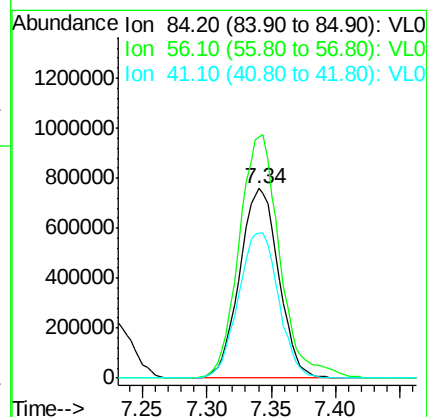
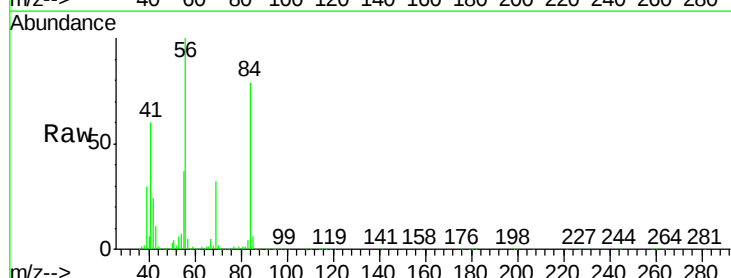
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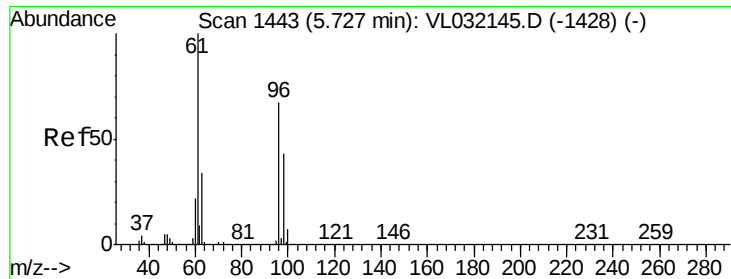
MMDadoda
7/3/2018 5:17:04 PM



#30
Cyclohexane
Concen: 10.41 ppbv
RT: 7.34 min Scan# 1945
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 84 Resp: 1598461
Ion Ratio Lower Upper
84 100
56 134.0 109.1 163.7
41 78.7 64.6 96.8





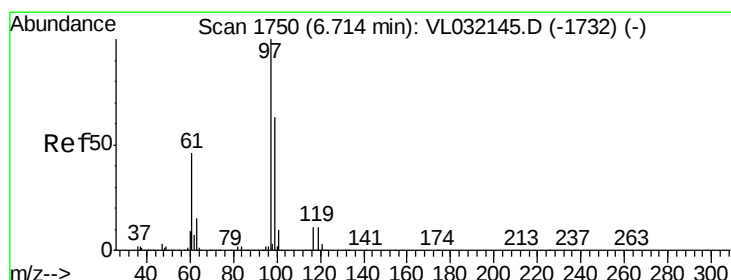
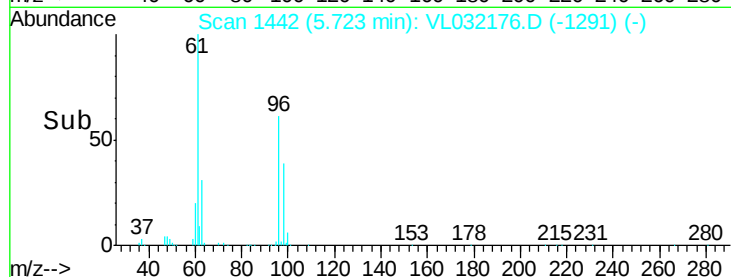
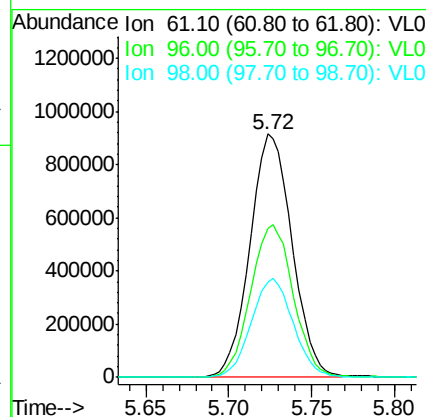
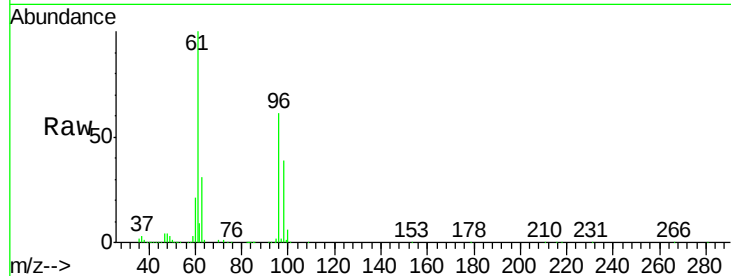
#31
 cis-1,2-Dichloroethene
 Concen: 9.97 ppbv
 RT: 5.72 min Scan# 1442
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.3	54.2	81.4
98	38.9	34.6	52.0

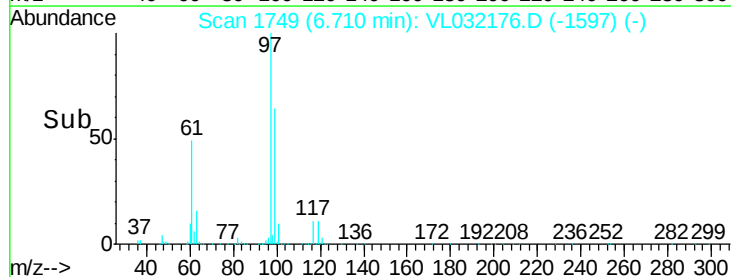
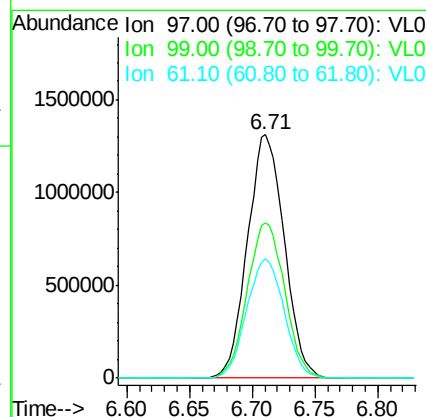
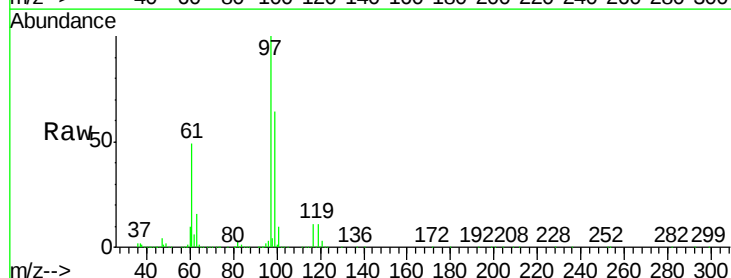
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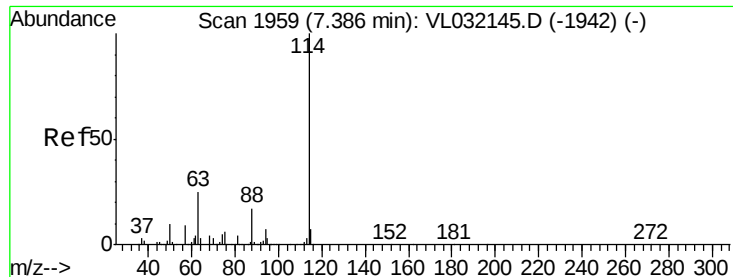
MMDadoda
 7/3/2018 5:17:04 PM



#32
 1,1,1-Trichloroethane
 Concen: 10.81 ppbv
 RT: 6.71 min Scan# 1749
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.3	76.9
61	49.8	38.4	57.6





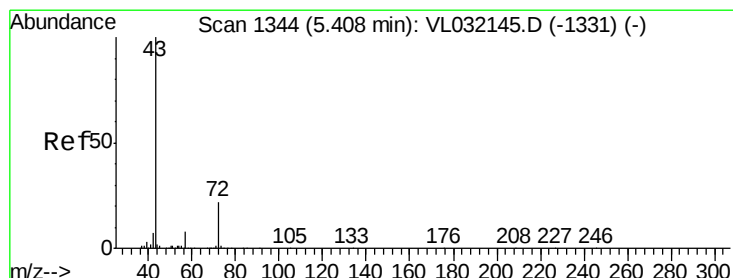
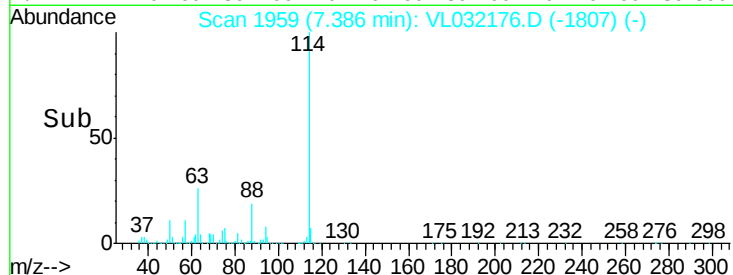
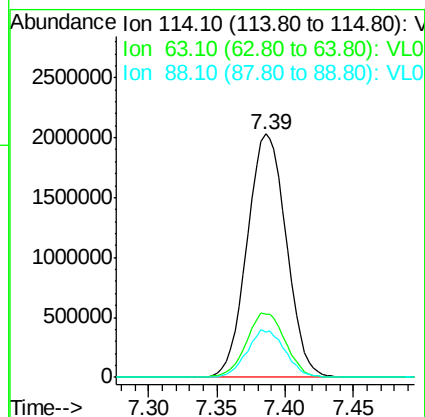
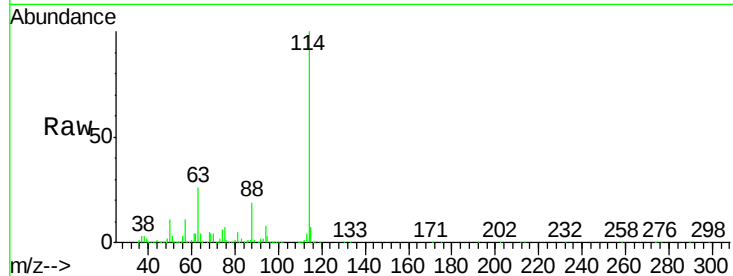
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.39 min Scan# 1959
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 4047441
 Ion Ratio Lower Upper
 114 100
 63 26.7 19.1 28.7
 88 19.0 13.9 20.9

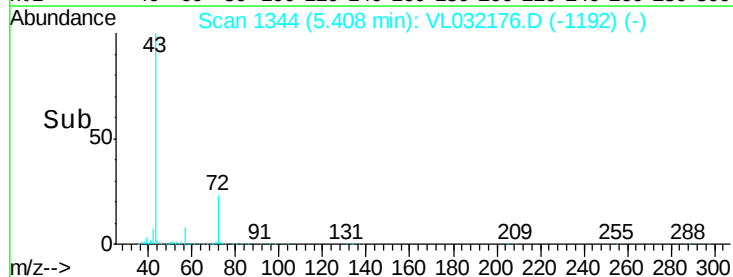
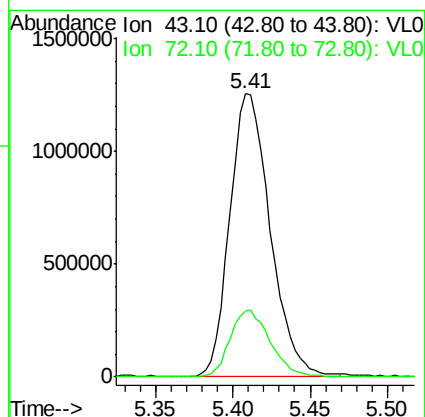
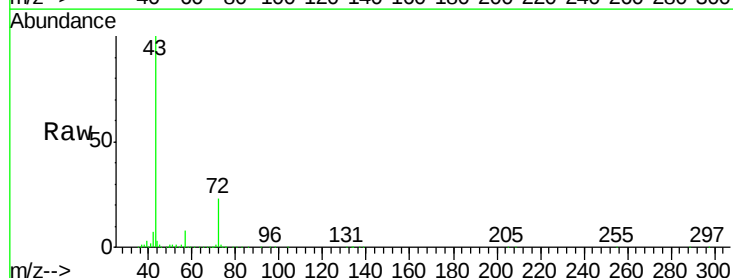
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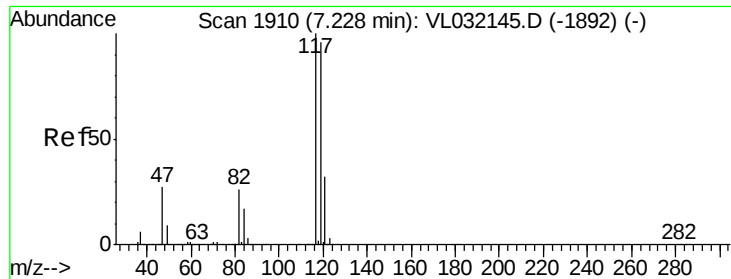
MMDadoda
 7/3/2018 5:17:04 PM



#34
 2-Butanone
 Concen: 8.81 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion: 43 Resp: 2262691
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.4 27.6





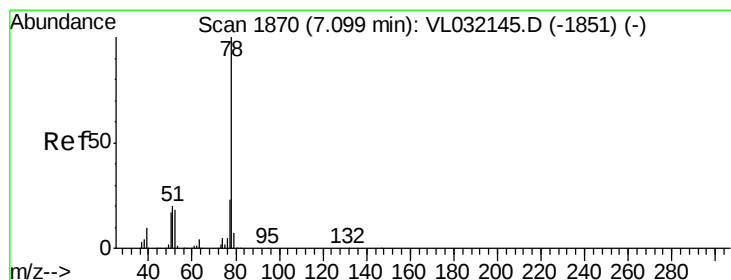
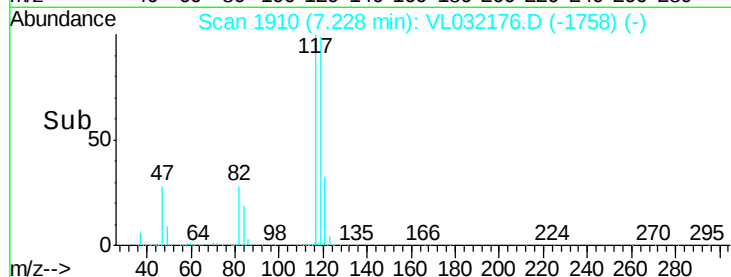
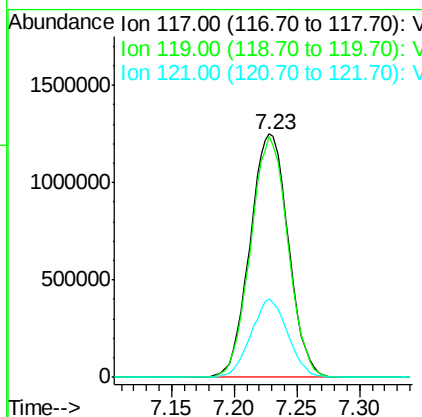
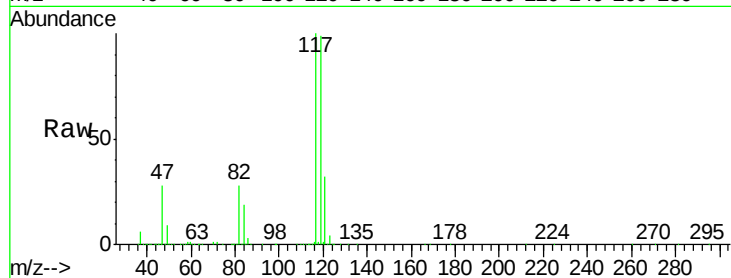
#35
Carbon Tetrachloride
Concen: 9.60 ppbv
RT: 7.23 min Scan# 1910
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2658383
Ion Ratio Lower Upper
117 100
119 99.1 74.8 112.2
121 32.4 24.0 36.0

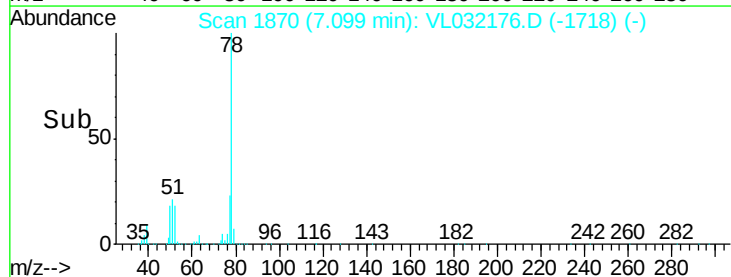
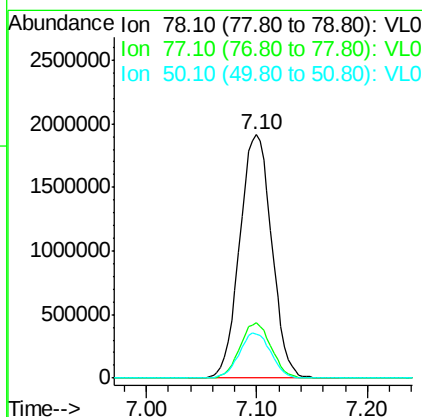
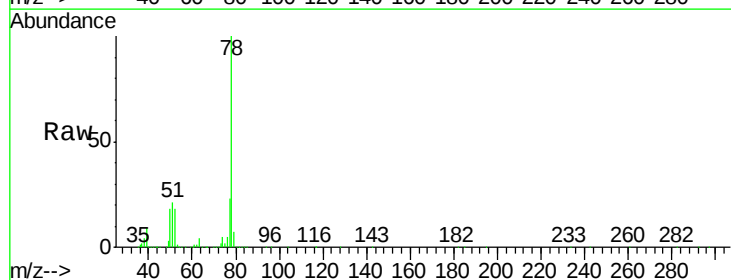
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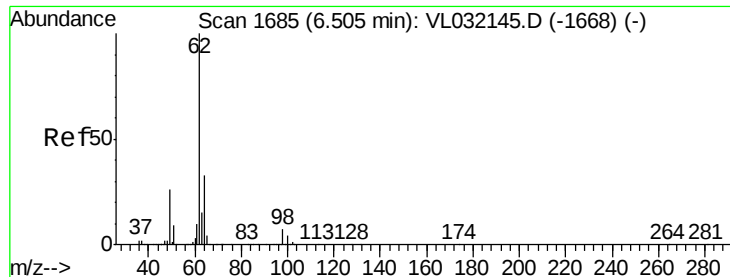
MMDadoda
7/3/2018 5:17:04 PM



#36
Benzene
Concen: 9.82 ppbv
RT: 7.10 min Scan# 1870
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 78 Resp: 3847090
Ion Ratio Lower Upper
78 100
77 22.7 17.7 26.5
50 18.0 14.0 21.0





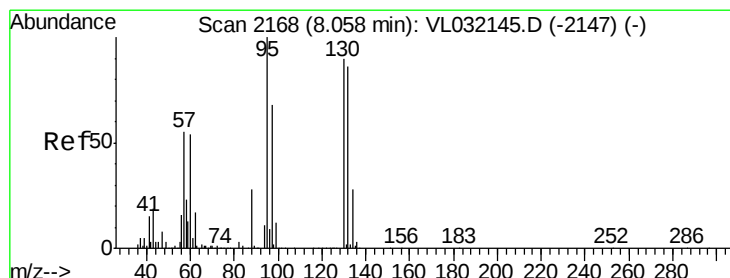
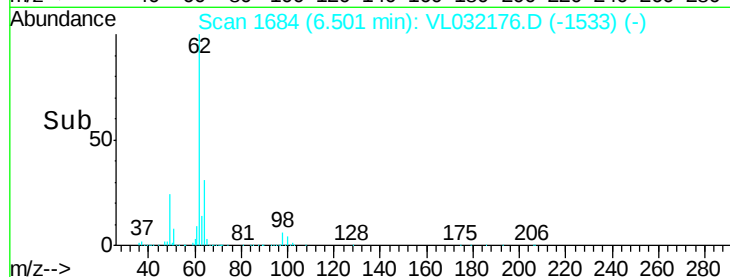
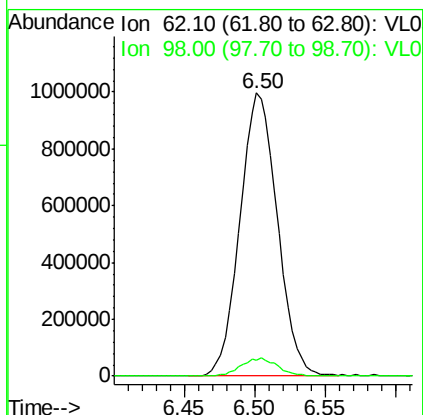
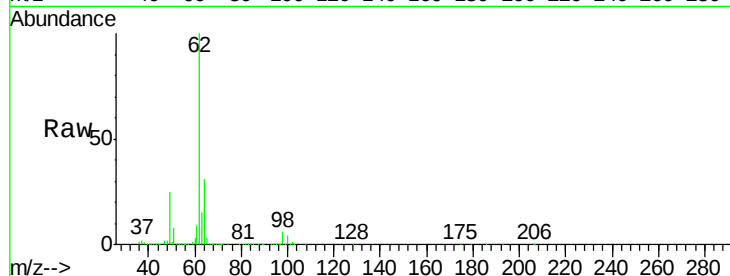
#37
 1,2-Dichloroethane
 Concen: 9.50 ppbv
 RT: 6.50 min Scan# 1684
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1854445
 Ion Ratio Lower Upper
 62 100
 98 6.3 5.8 8.6

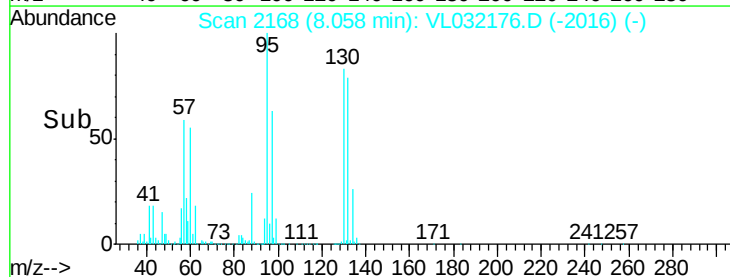
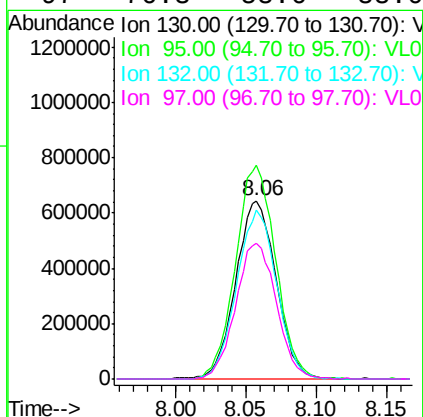
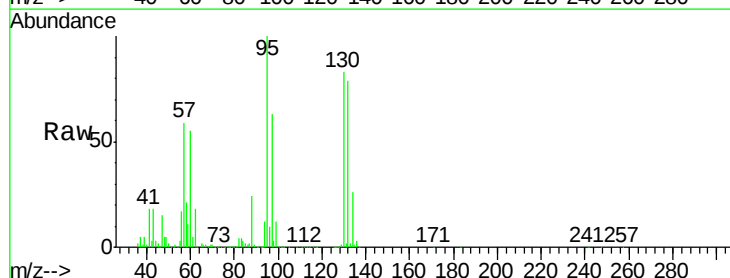
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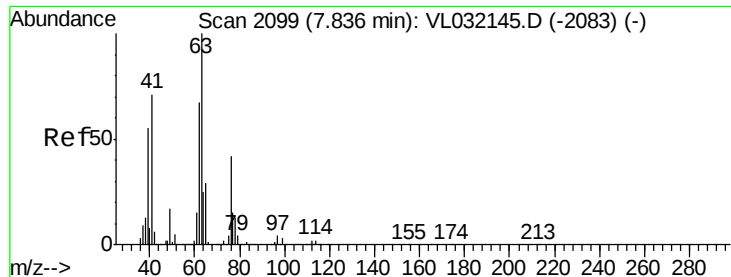
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#38
 Trichloroethene
 Concen: 8.35 ppbv
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion:130 Resp: 1277201
 Ion Ratio Lower Upper
 130 100
 95 120.1 88.1 132.1
 132 95.2 74.6 112.0
 97 76.3 58.6 88.0





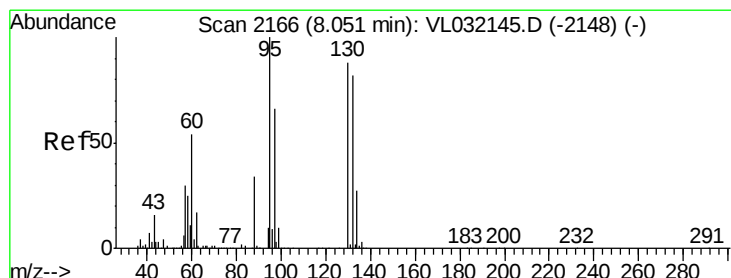
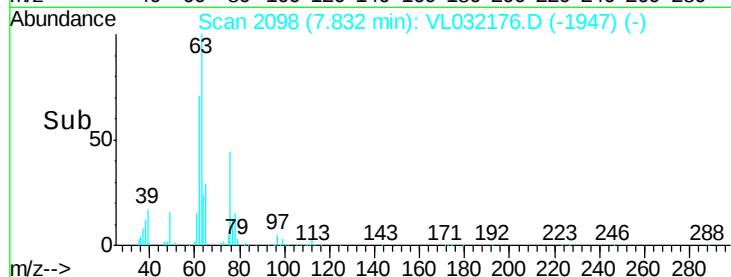
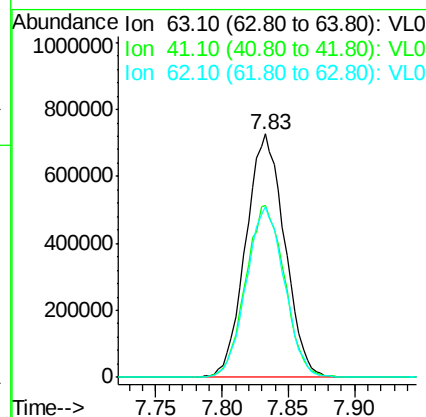
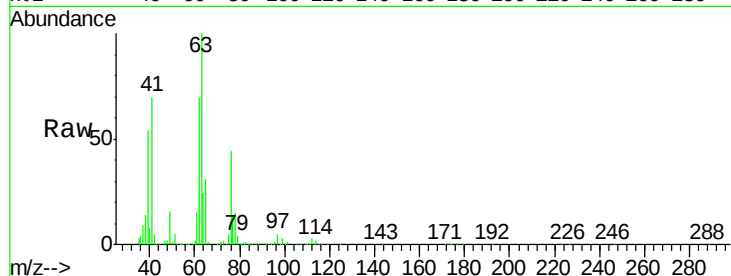
#39
 1,2-Dichloropropane
 Concen: 9.59 ppbv
 RT: 7.83 min Scan# 2098
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.3	53.3	79.9
62	69.8	54.8	82.2

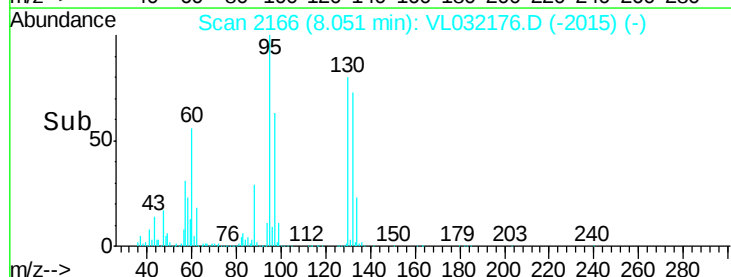
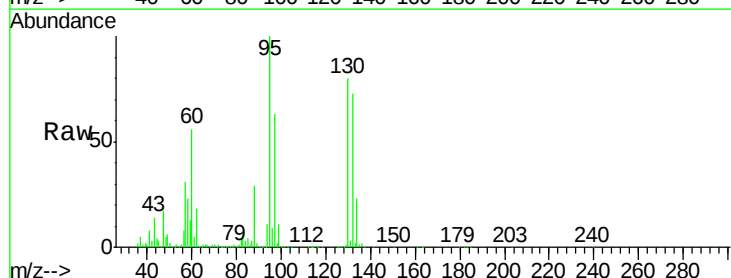
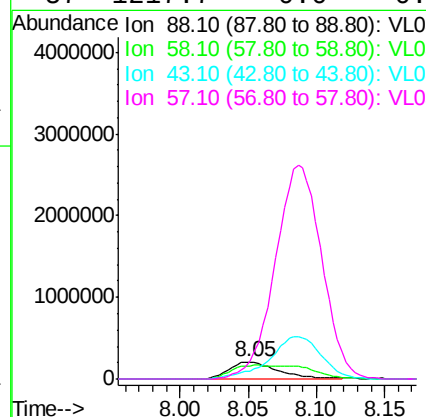
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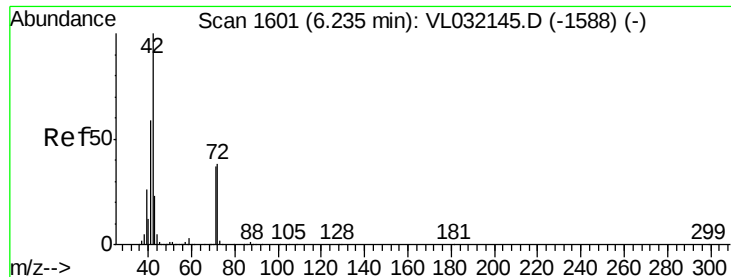
MMDadoda
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#40
 1,4-Dioxane
 Concen: 8.45 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion	Ratio	Lower	Upper
88	100		
58	134.0	47.4	71.0#
43	266.5	0.0	0.0#
57	1217.7	0.0	0.0#





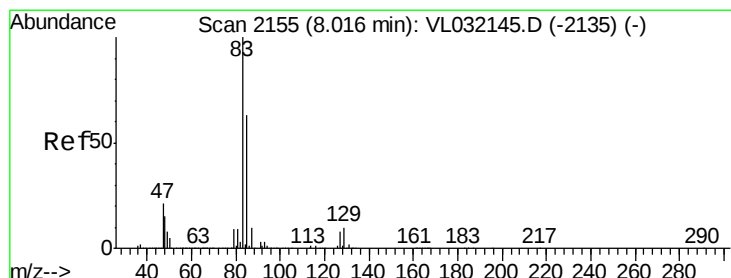
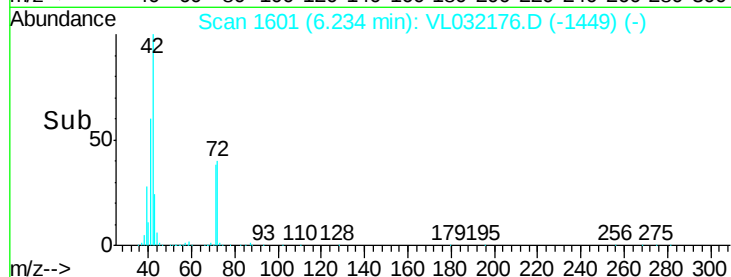
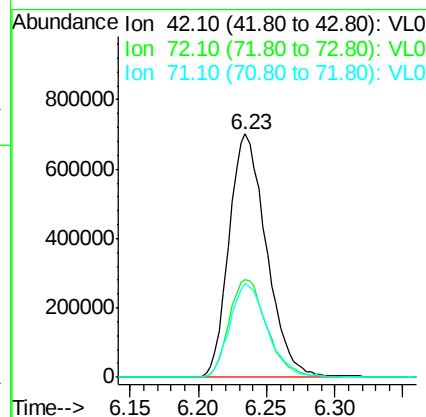
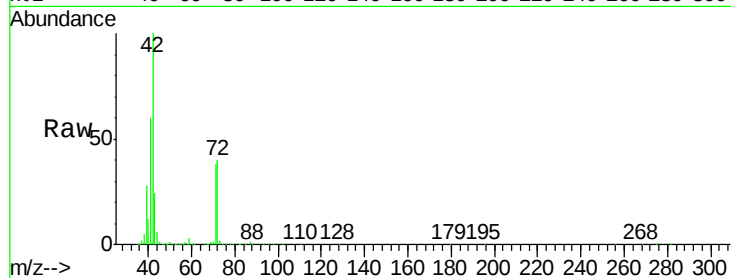
#41
Tetrahydrofuran
Concen: 8.69 ppbv
RT: 6.23 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	31.1	46.7
71	38.7	29.5	44.3

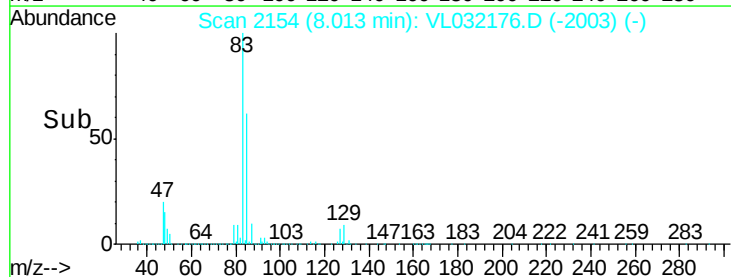
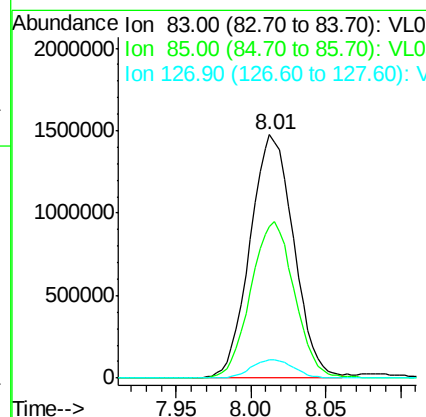
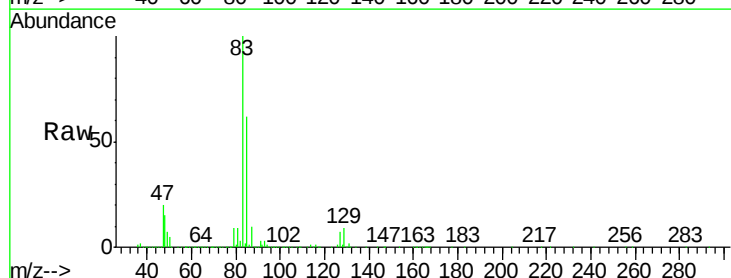
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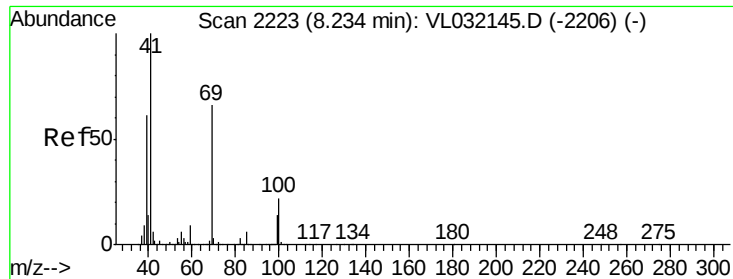
MMDadoda
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#42
Bromodichloromethane
Concen: 9.78 ppbv
RT: 8.01 min Scan# 2154
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.6	79.0
127	7.3	6.5	9.7





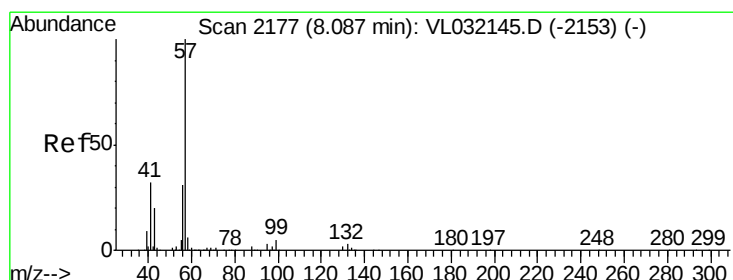
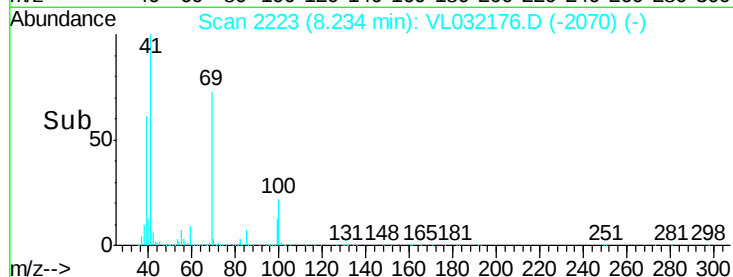
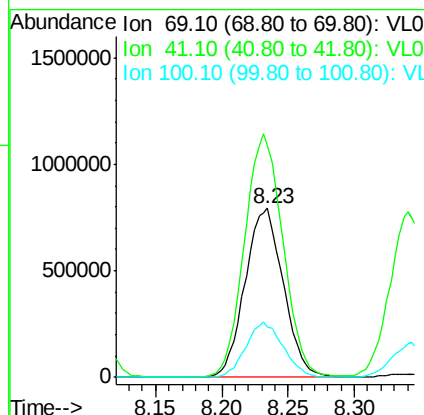
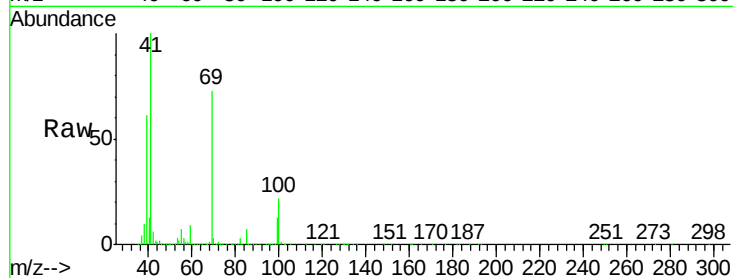
#43
Methvl Methacrvlate
Concen: 9.81 ppbv
RT: 8.23 min Scan# 2223
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1593007
Ion Ratio Lower Upper
69 100
41 144.3 118.2 177.4
100 32.1 27.4 41.2

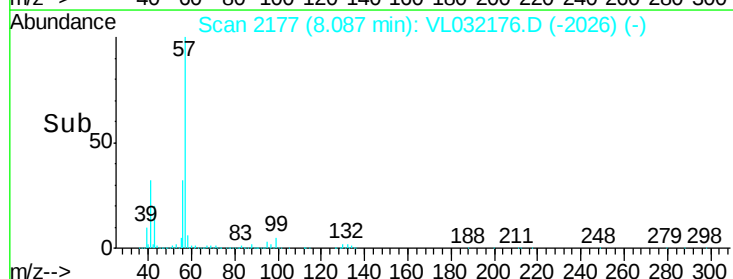
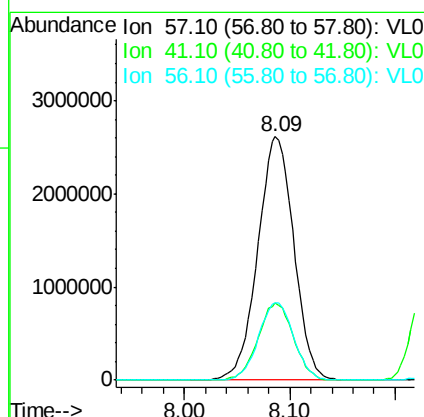
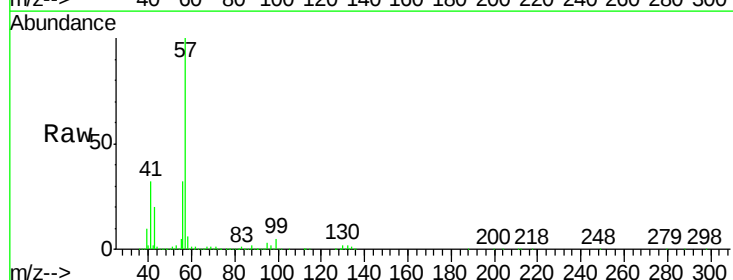
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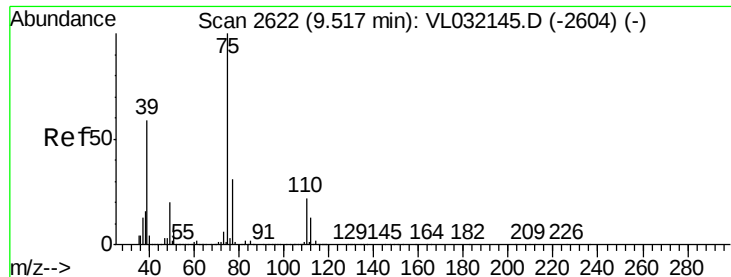
MMDadoda
7/3/2018 5:17:04 PM



#44
2,2,4-Trimethylpentane
Concen: 9.08 ppbv
RT: 8.09 min Scan# 2177
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 57 Resp: 6220701
Ion Ratio Lower Upper
57 100
41 31.1 24.3 36.5
56 31.2 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 9.84 ppbv

RT: 9.51 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1980129

Ion Ratio Lower Upper

75 100

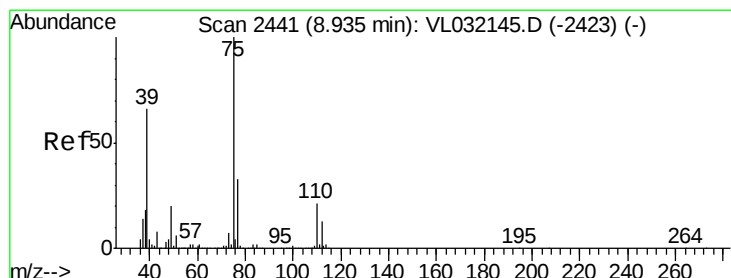
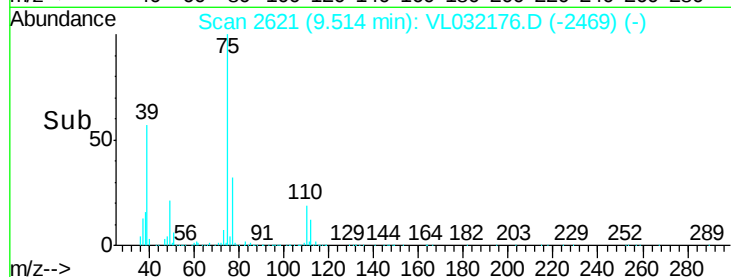
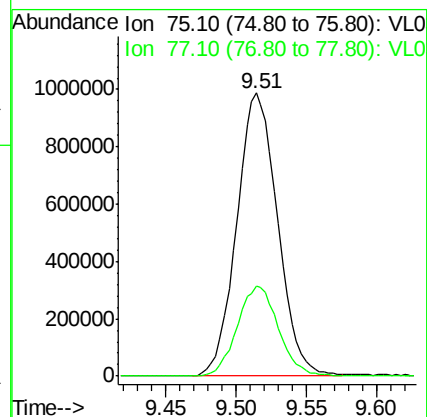
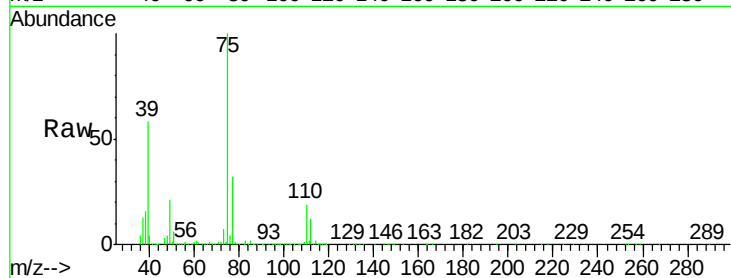
77 31.8 25.6 38.4

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7/3/2018 5:17:04 PM



#46

cis-1,3-Dichloropropene

Concen: 9.68 ppbv

RT: 8.93 min Scan# 2440

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

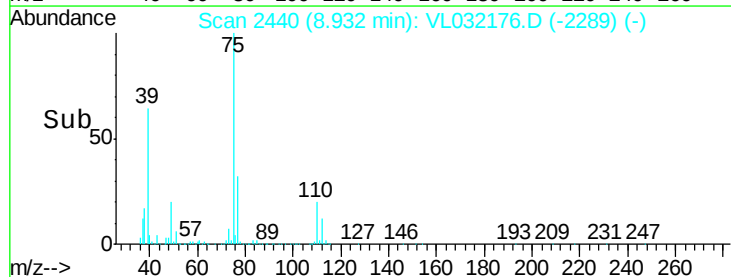
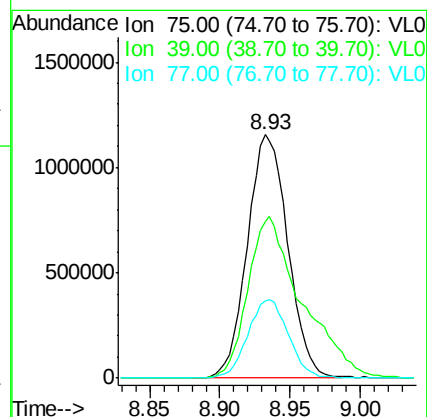
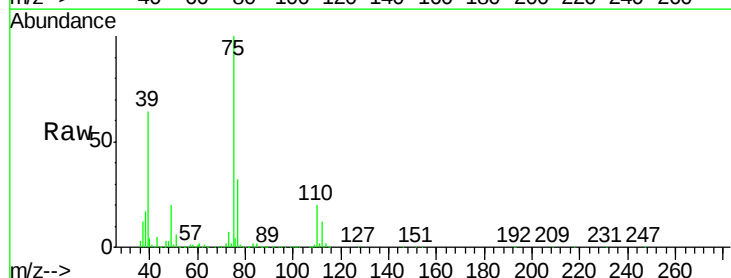
Tgt Ion: 75 Resp: 2324594

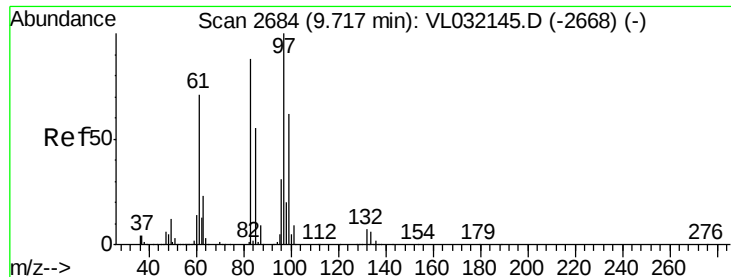
Ion Ratio Lower Upper

75 100

39 64.2 51.9 77.9

77 31.7 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 9.28 ppbv

RT: 9.72 min Scan# 2684

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 1489713

Ion Ratio Lower Upper

97 100

83 88.5 71.0 106.4

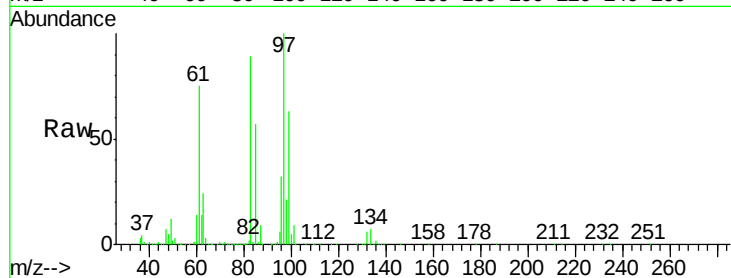
85 57.1 44.2 66.4

99 62.7 49.2 73.8

Manual Integrations
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7/3/2018 5:17:04 PM

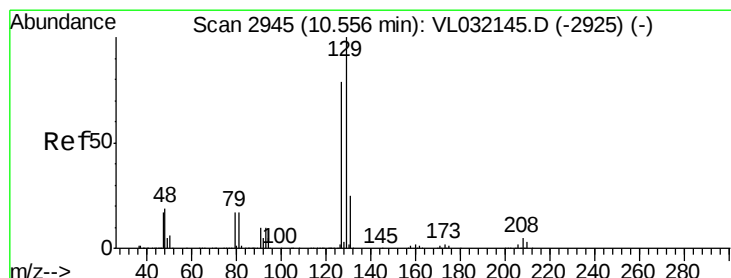
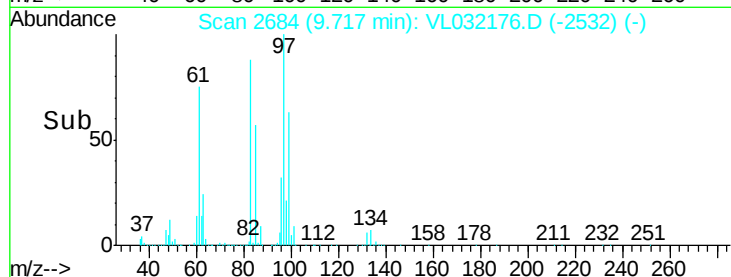
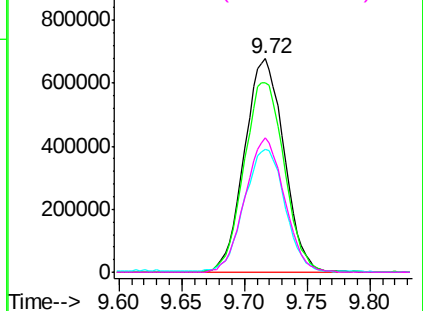


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.41 ppbv

RT: 10.56 min Scan# 2945

Delta R.T. -0.02 min

Lab File: VL032176.D

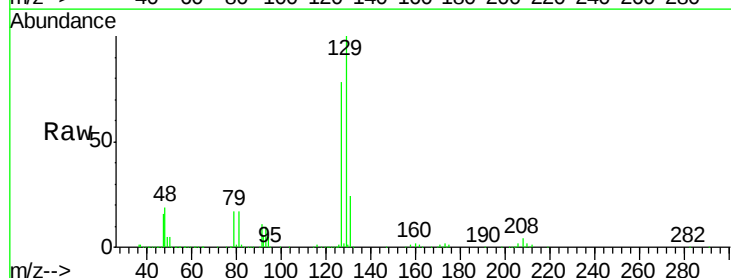
Acq: 2 Jul 2018 10:00

Tgt Ion: 129 Resp: 2338642

Ion Ratio Lower Upper

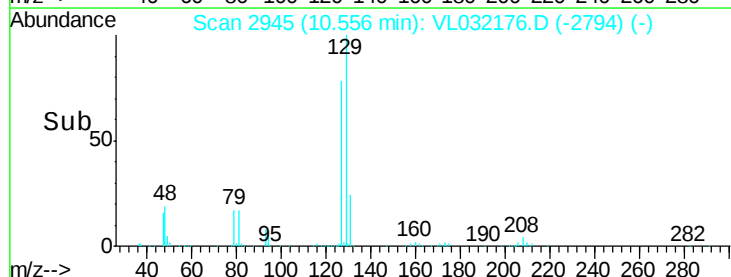
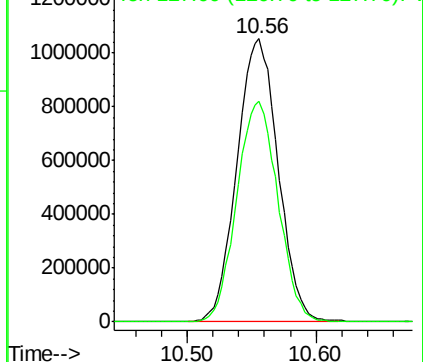
129 100

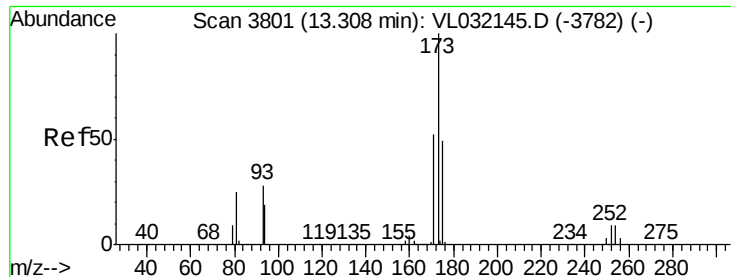
127 78.2 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





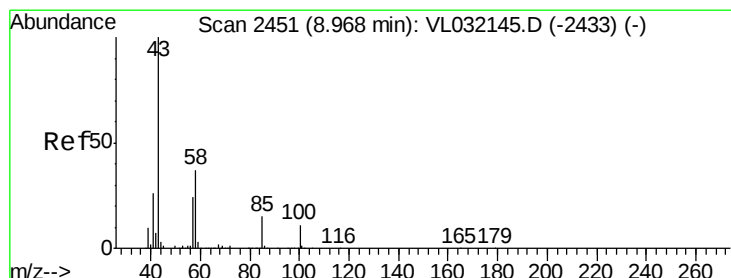
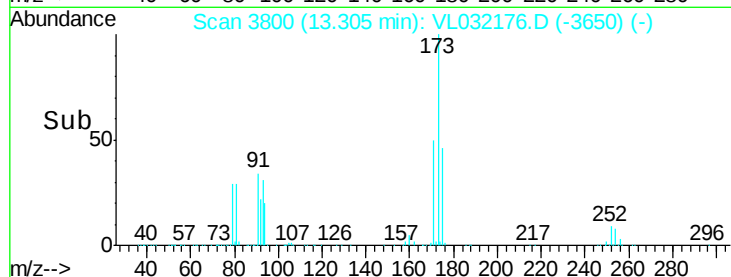
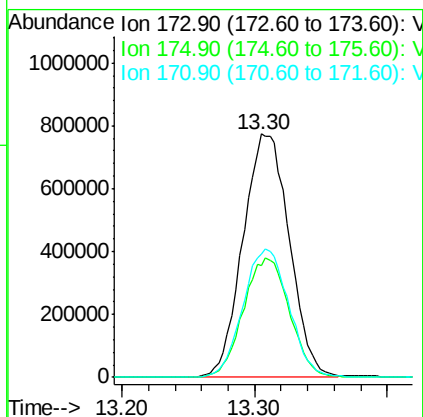
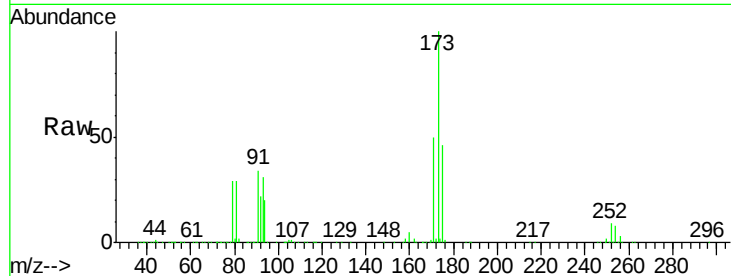
#49
Bromoform
Concen: 9.03 ppbv
RT: 13.30 min Scan# 3800
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1880307
Ion Ratio Lower Upper
173 100
175 49.1 39.4 59.0
171 52.4 41.8 62.8

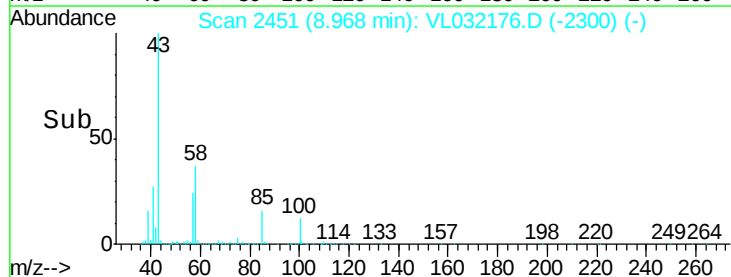
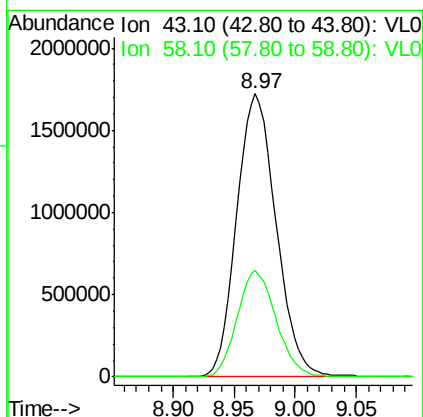
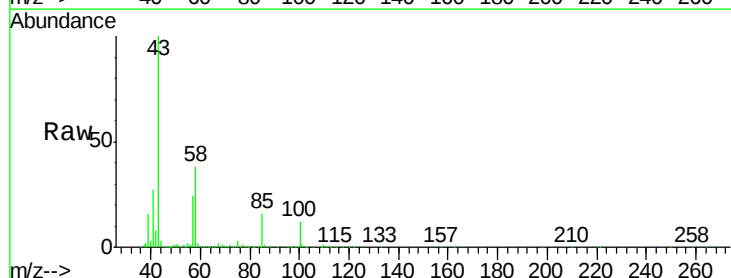
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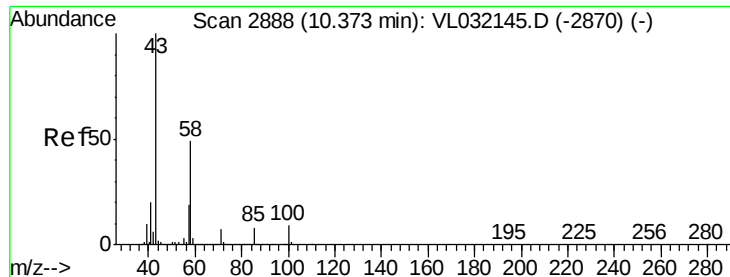
MMDadoda
7/3/2018 5:17:04 PM



#50
4-Methyl-2-Pentanone
Concen: 9.15 ppbv
RT: 8.97 min Scan# 2451
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 43 Resp: 3850309
Ion Ratio Lower Upper
43 100
58 37.3 29.8 44.6





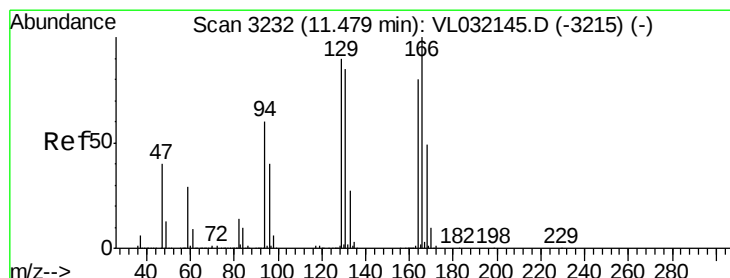
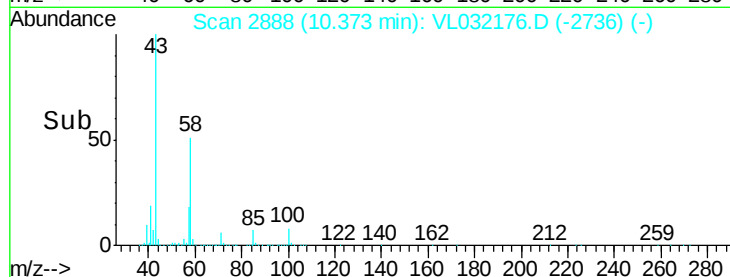
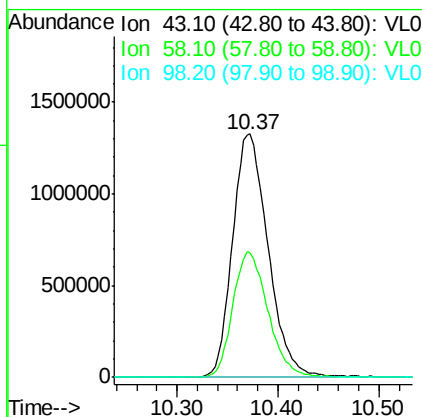
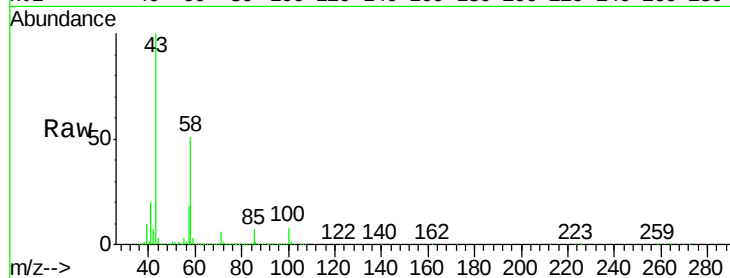
#51
2-Hexanone
Concen: 9.30 ppbv
RT: 10.37 min Scan# 2888
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 3244348
Ion Ratio Lower Upper
43 100
58 51.1 40.6 60.8
98 0.2 0.1 0.1#

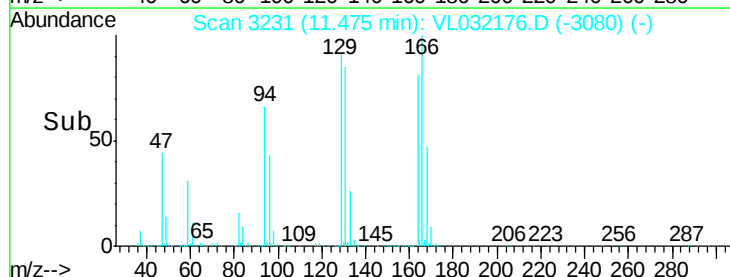
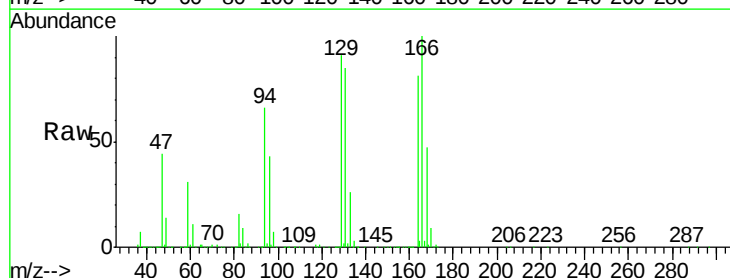
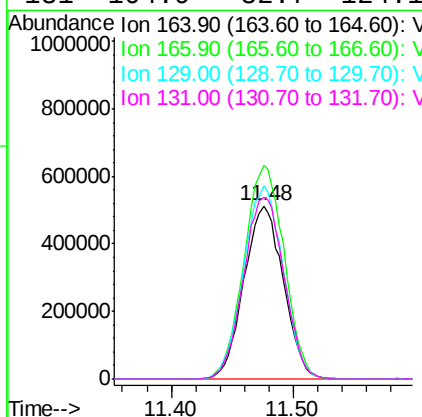
Manual Integrations
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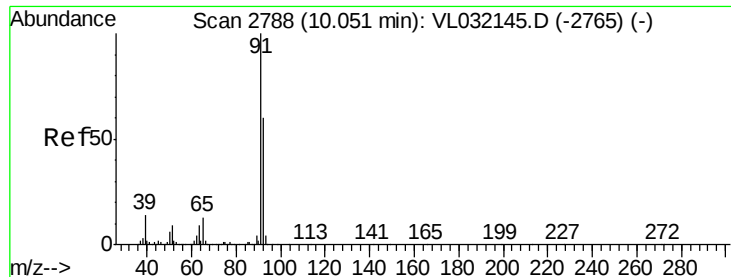
MMDadoda
7/3/2018 5:17:04 PM



#52
Tetrachloroethene
Concen: 8.02 ppbv
RT: 11.48 min Scan# 3231
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 164 Resp: 1142621
Ion Ratio Lower Upper
164 100
166 123.2 100.6 151.0
129 111.8 84.0 126.0
131 104.9 82.7 124.1





#53

Toluene

Concen: 9.18 ppbv

RT: 10.05 min Scan# 2787

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4347640

Ion Ratio Lower Upper

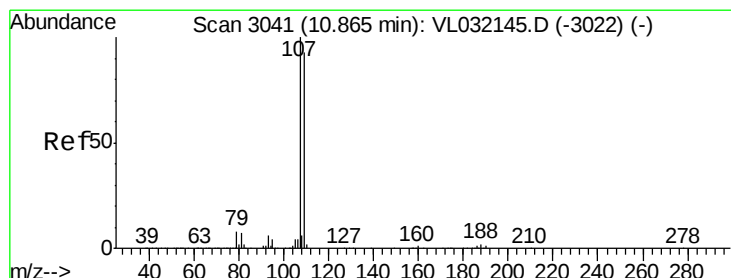
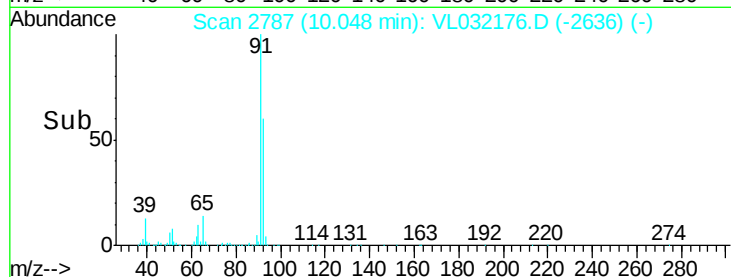
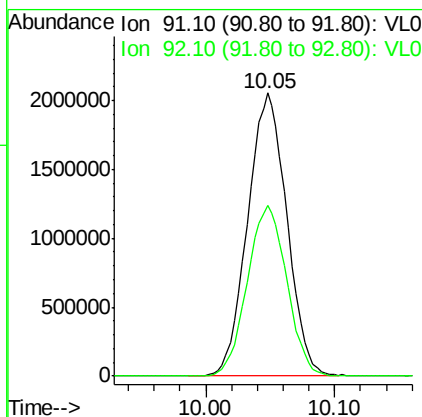
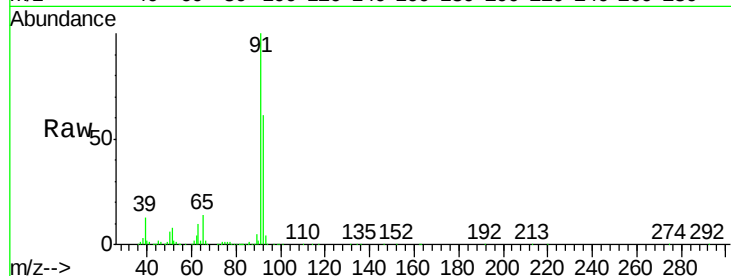
91 100

92 60.8 49.2 73.8

Manual Integrations
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MMDadoda

7/3/2018 5:17:04 PM



#54

1,2-Dibromoethane

Concen: 9.31 ppbv

RT: 10.86 min Scan# 3041

Delta R.T. -0.01 min

Lab File: VL032176.D

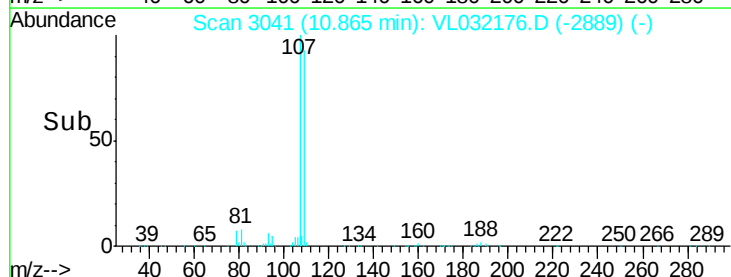
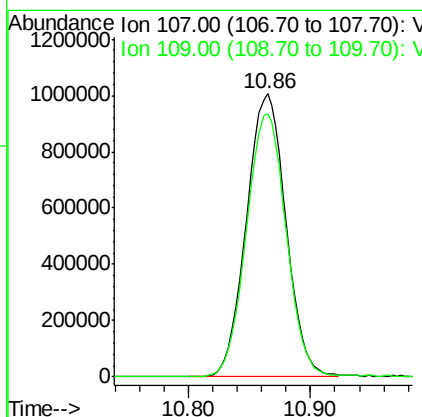
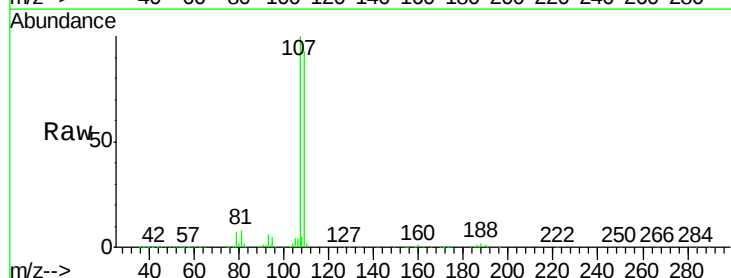
Acq: 2 Jul 2018 10:00

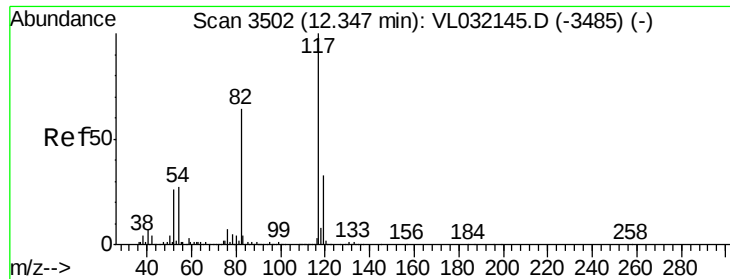
Tgt Ion: 107 Resp: 2247032

Ion Ratio Lower Upper

107 100

109 92.7 75.0 112.4





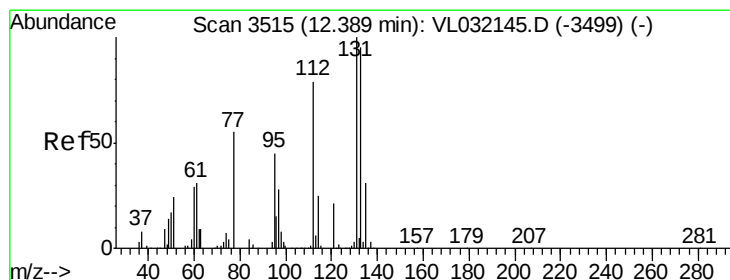
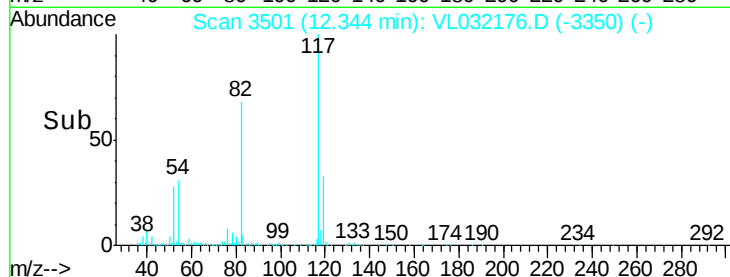
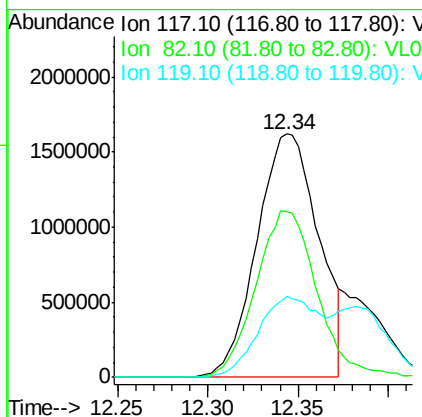
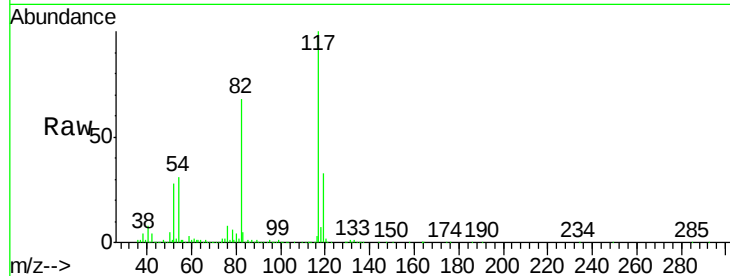
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.34 min Scan# 3501
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 3851878
Ion Ratio Lower Upper
117 100
82 68.0 47.8 71.8
119 58.3 43.3 64.9

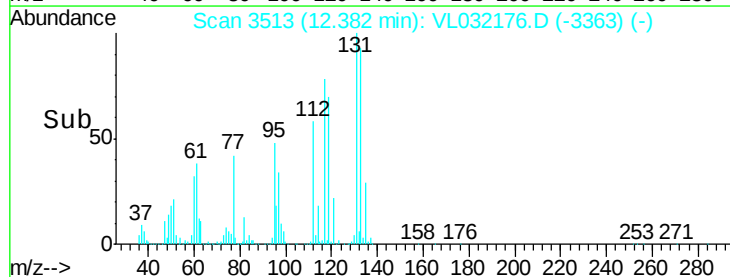
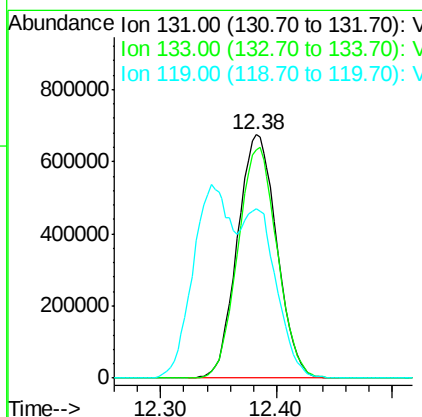
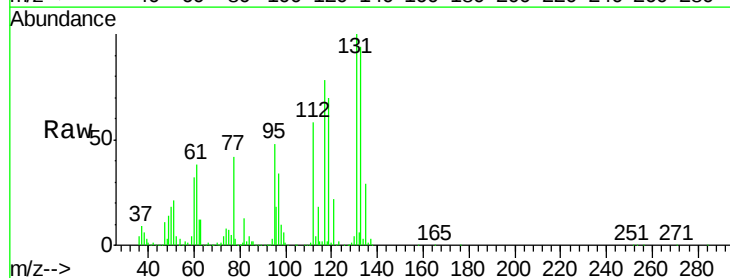
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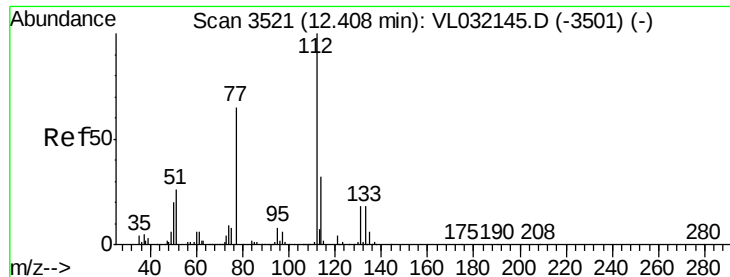
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.25 ppbv
RT: 12.38 min Scan# 3513
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion:131 Resp: 1590508
Ion Ratio Lower Upper
131 100
133 94.9 75.5 113.3
119 141.2 118.4 177.6





#57

Chlorobenzene

Concen: 9.20 ppbv

RT: 12.40 min Scan# 3520

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 3069801

Ion Ratio Lower Upper

112 100

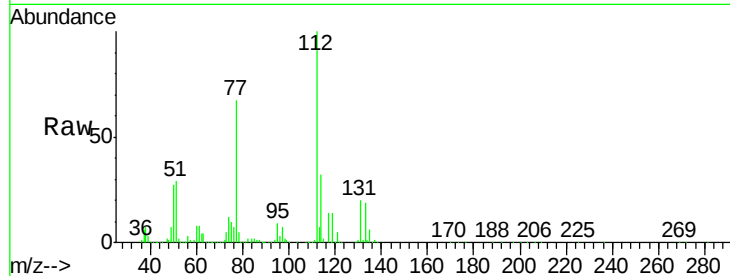
77 67.2 52.6 78.8

114 31.9 27.9 34.1

Manual Integrations
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MMDadoda

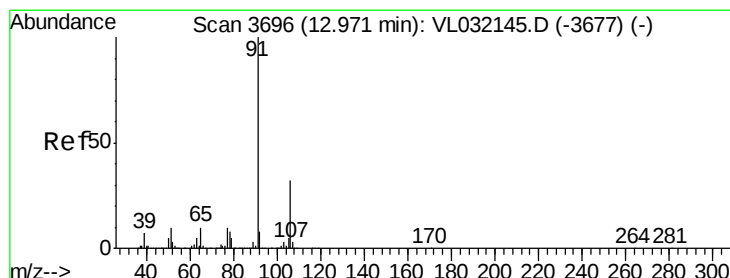
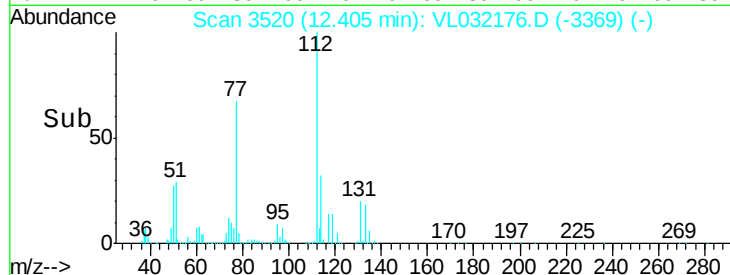
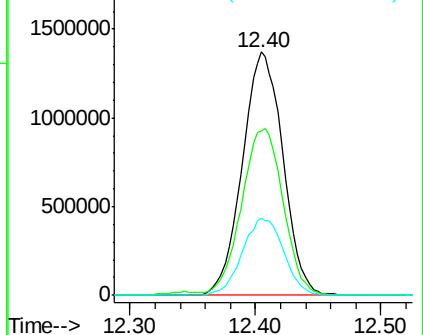
7/3/2018 5:17:04 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.31 ppbv

RT: 12.97 min Scan# 3695

Delta R.T. -0.02 min

Lab File: VL032176.D

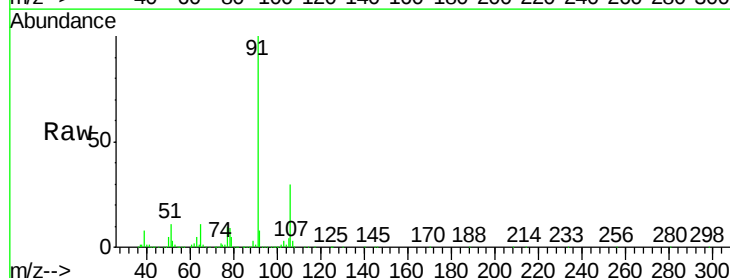
Acq: 2 Jul 2018 10:00

Tgt Ion: 91 Resp: 5776576

Ion Ratio Lower Upper

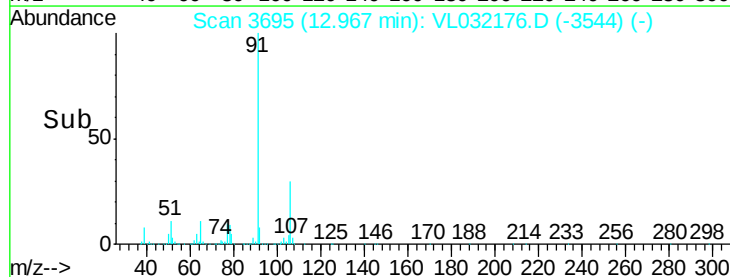
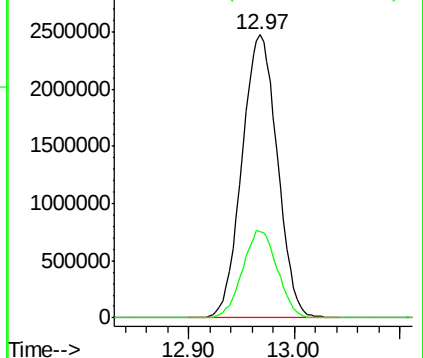
91 100

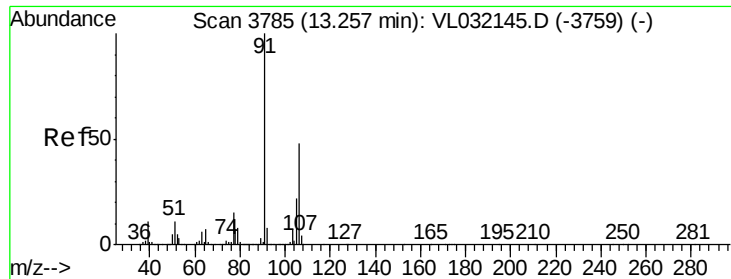
106 30.3 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





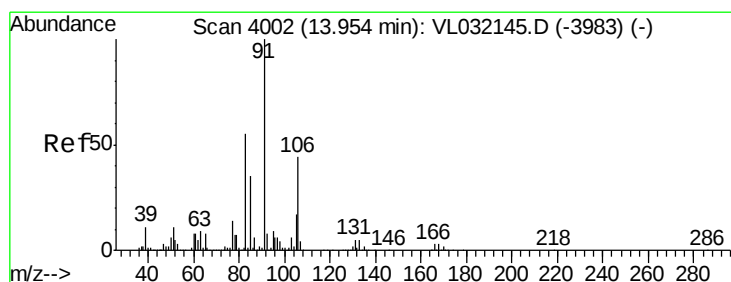
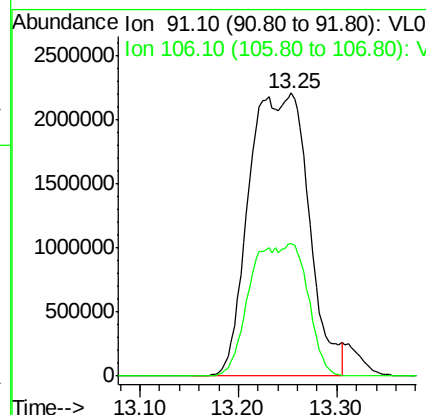
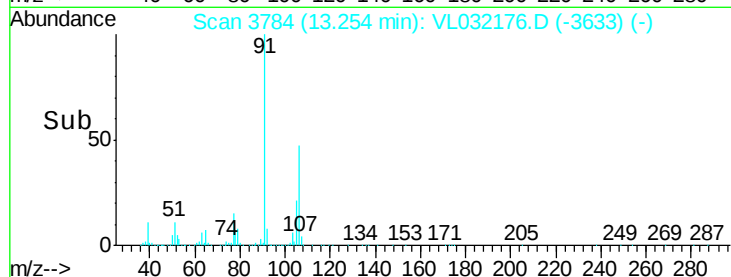
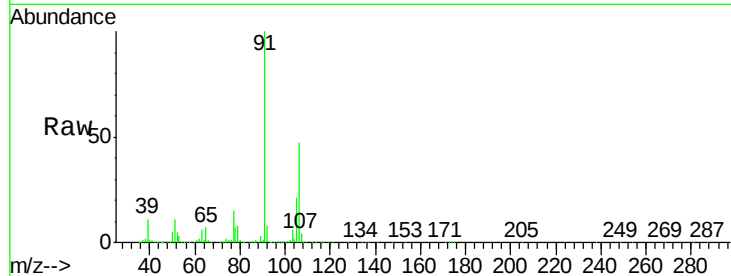
#59
m/p-Xylene
Concen: 18.64 ppbv m
RT: 13.25 min Scan# 3784
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 9276354
Ion Ratio Lower Upper
91 100
106 45.1 38.6 58.0

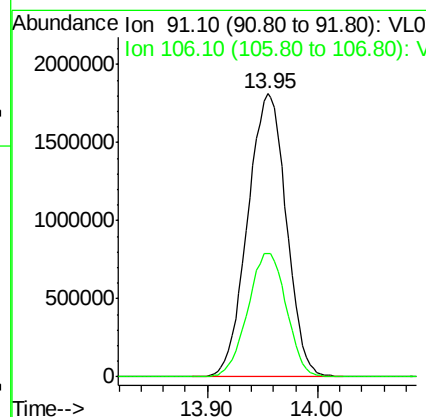
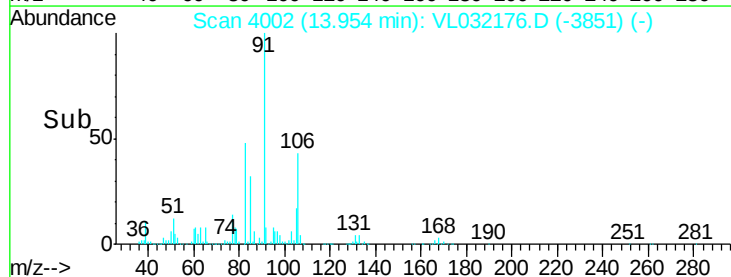
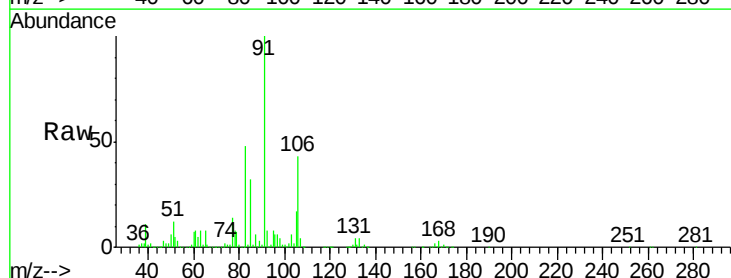
Manual Integrations
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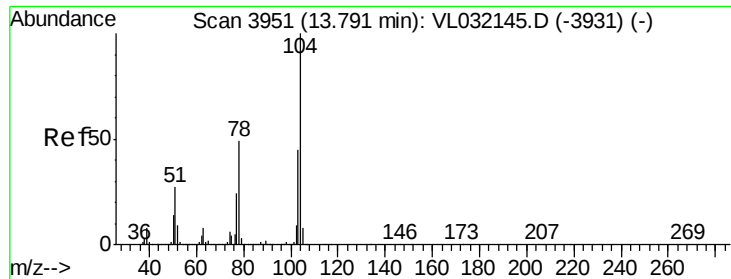
MMDadoda
7/3/2018 5:17:04 PM



#60
o-Xylene
Concen: 8.85 ppbv
RT: 13.95 min Scan# 4002
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion: 91 Resp: 4394197
Ion Ratio Lower Upper
91 100
106 43.6 23.3 69.8





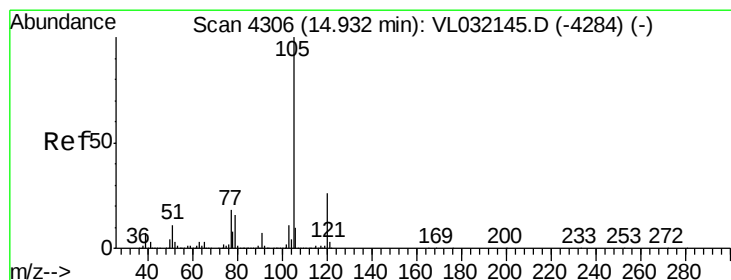
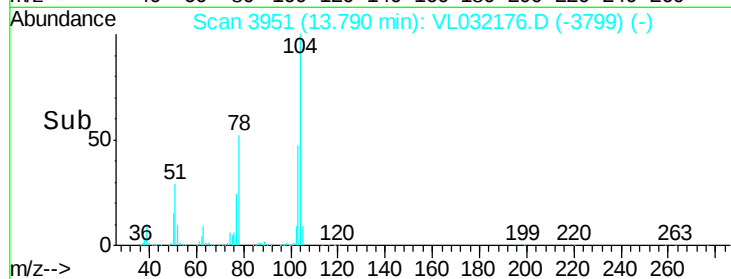
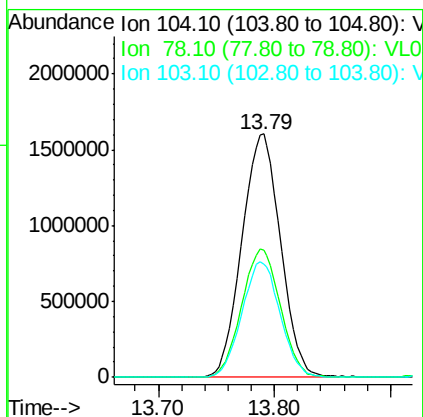
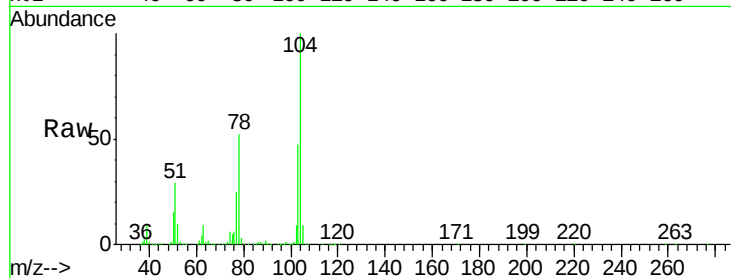
#61
Stvrene
Concen: 9.14 ppbv
RT: 13.79 min Scan# 3951
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.8	37.9	56.9
103	47.1	36.6	55.0

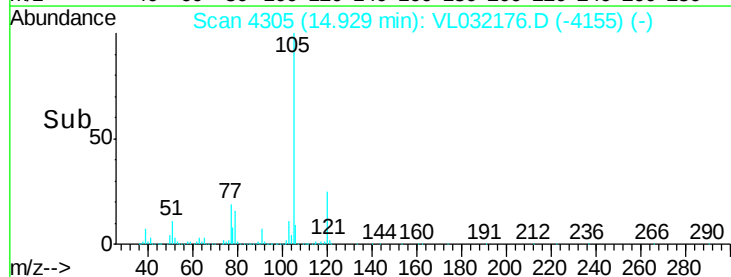
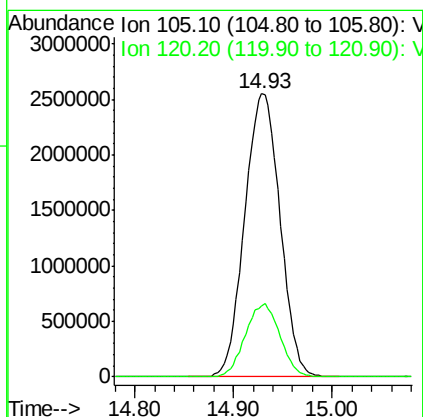
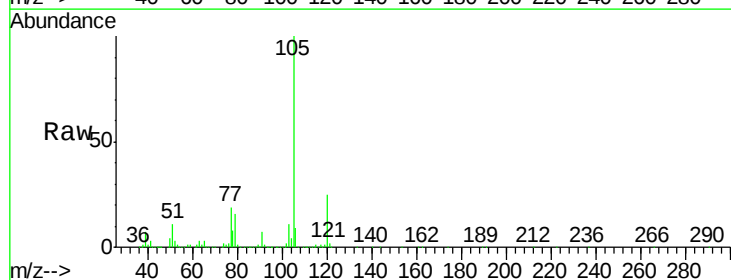
Manual Integrations
APPROVED

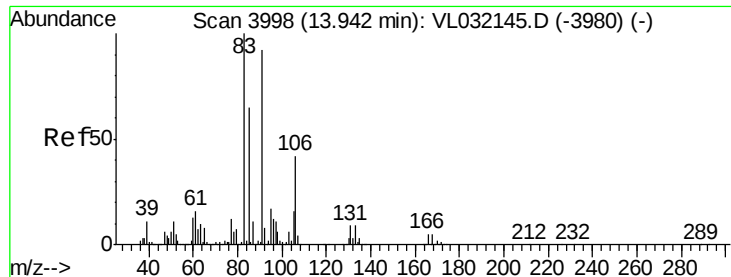
MMDadoda
7/3/2018 5:17:04 PM



#62
Isopropylbenzene
Concen: 8.28 ppbv
RT: 14.93 min Scan# 4305
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	21.0	31.4





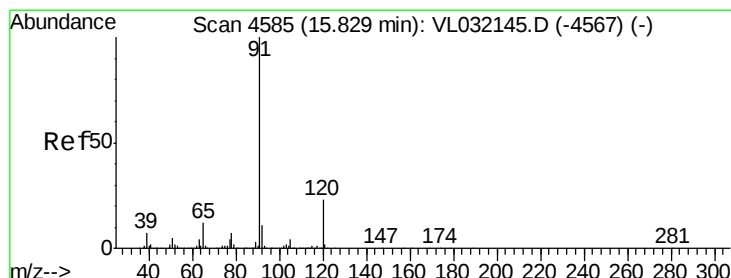
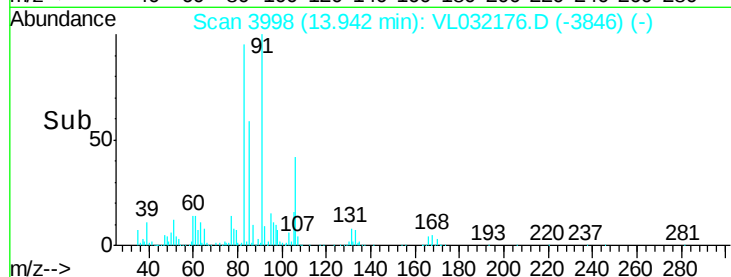
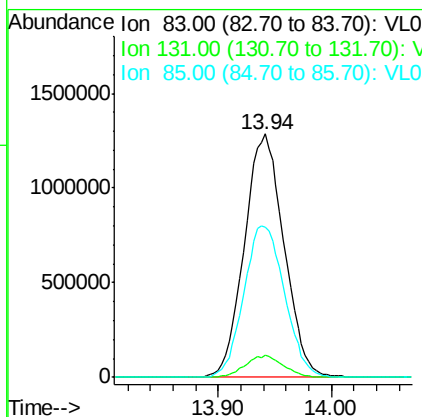
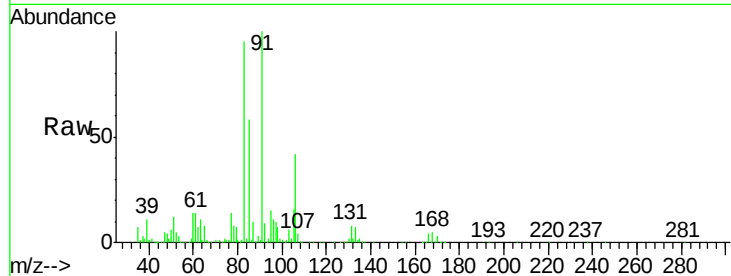
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.14 ppbv
 RT: 13.94 min Scan# 3998
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	3126782
Ion Ratio	100	Lower	Upper
83	100		
131	8.8	4.6	13.8
85	64.4	32.4	97.2

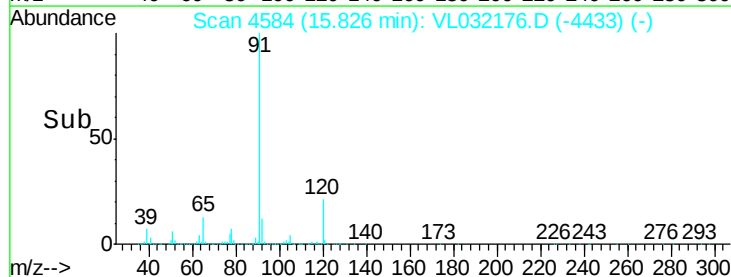
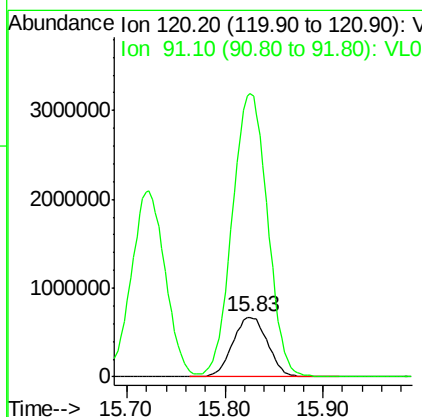
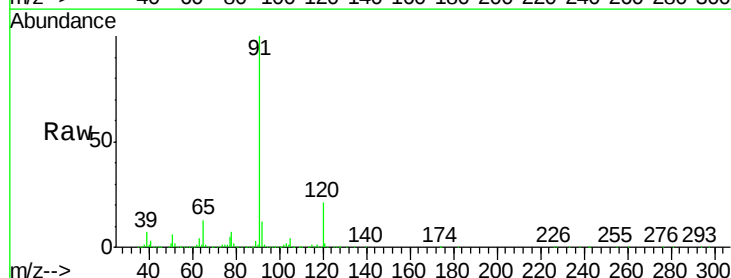
Manual Integrations
 APPROVED

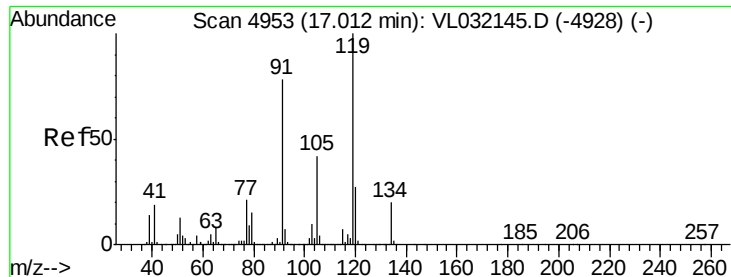
MMDadoda
 7/3/2018 5:17:04 PM



#64
 n-propylbenzene
 Concen: 8.38 ppbv m
 RT: 15.83 min Scan# 4584
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion	120	Resp	1654367
Ion Ratio	100	Lower	Upper
120	100		
91	479.5	357.4	536.0





#65

tert-Butylbenzene

Concen: 8.28 ppbv

RT: 17.01 min Scan# 4953

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 119 Resp: 5551867

Ion Ratio Lower Upper

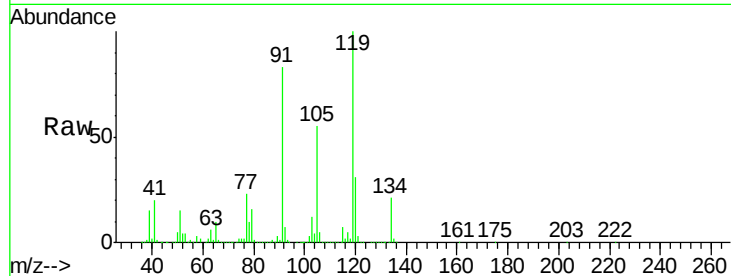
119 100

91 85.2 62.2 93.2

134 19.4 16.2 24.2

Manual Integrations
APPROVED

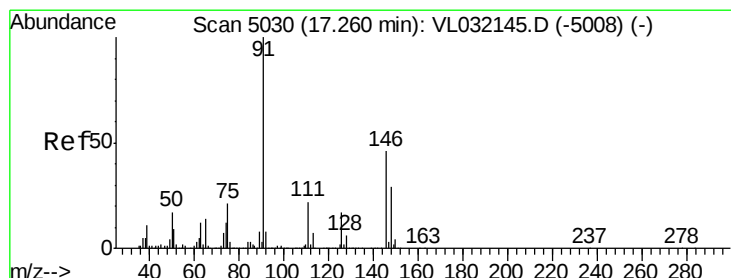
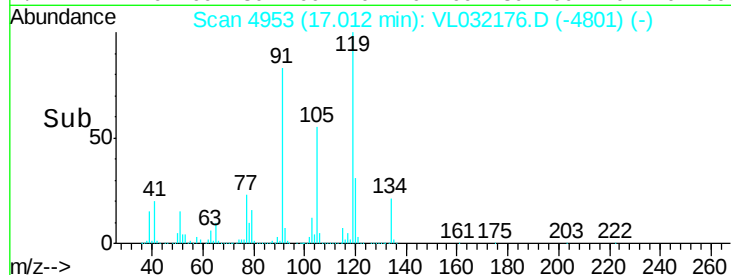
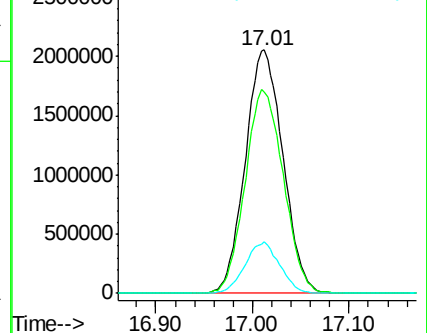
MMDadoda
7/3/2018 5:17:04 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 8.61 ppbv

RT: 17.26 min Scan# 5031

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

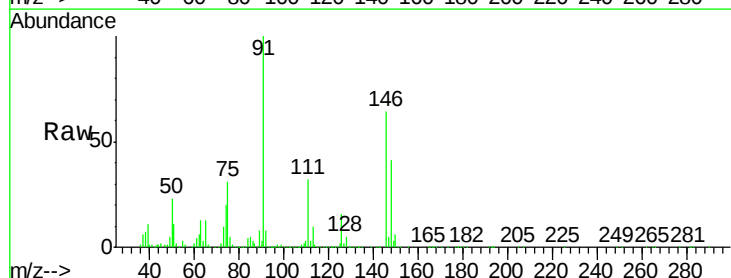
Tgt Ion: 91 Resp: 3566656

Ion Ratio Lower Upper

91 100

126 16.8 15.7 23.5

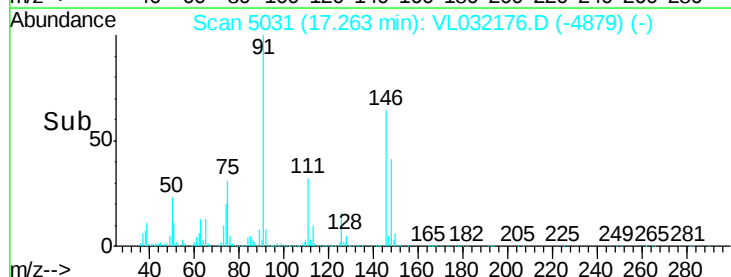
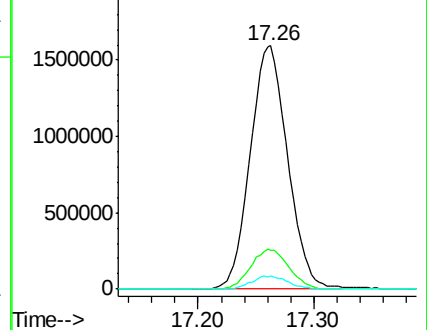
128 5.3 5.2 7.8

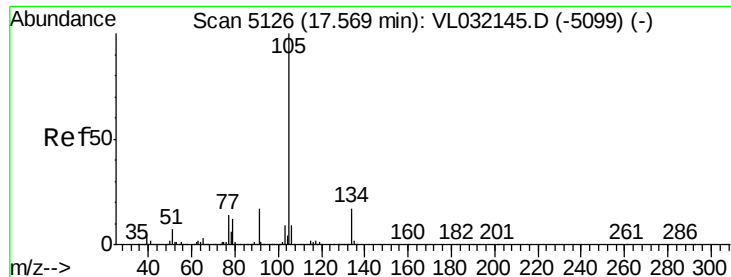


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





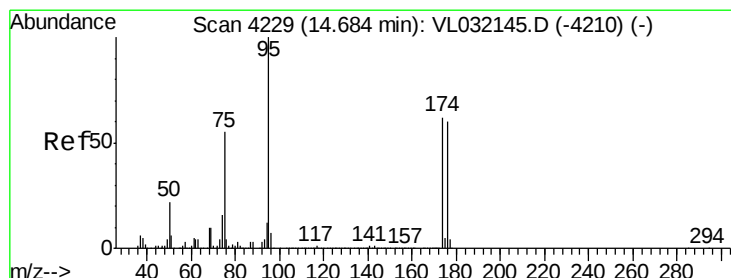
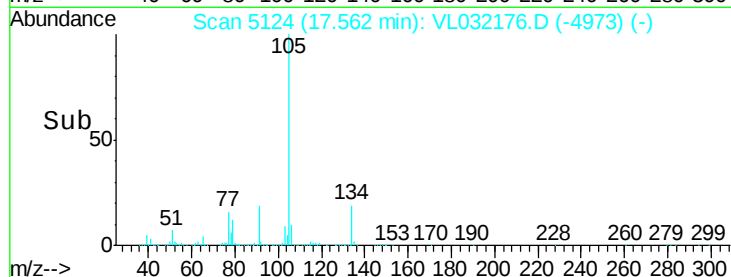
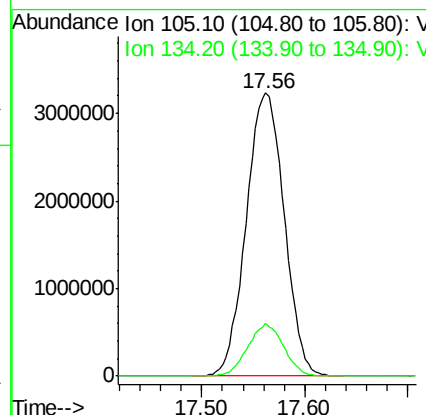
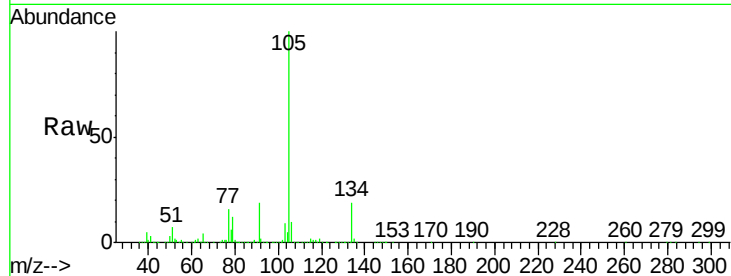
#67
 sec-Butylbenzene
 Concen: 8.43 ppbv
 RT: 17.56 min Scan# 5124
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 8272057
 Ion Ratio Lower Upper
 105 100
 134 17.5 14.7 22.1

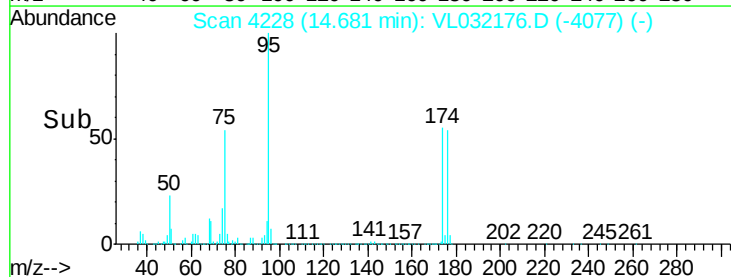
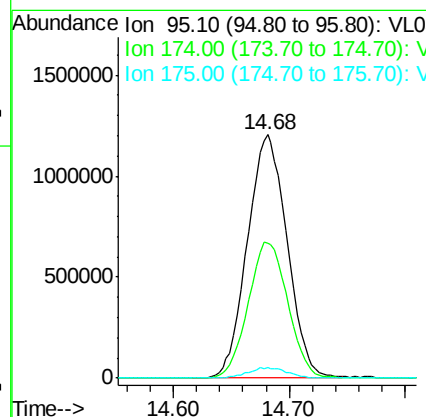
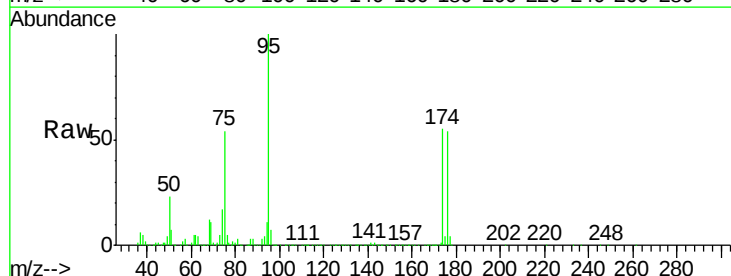
Manual Integrations
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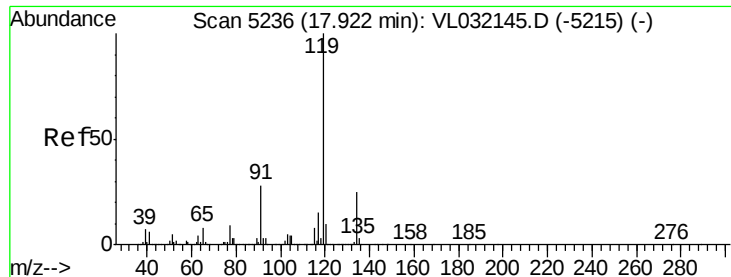
MMDadoda
 7/3/2018 5:17:04 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.75 ppbv
 RT: 14.68 min Scan# 4228
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion: 95 Resp: 2869441
 Ion Ratio Lower Upper
 95 100
 174 56.3 52.1 78.1
 175 4.3 4.0 6.0





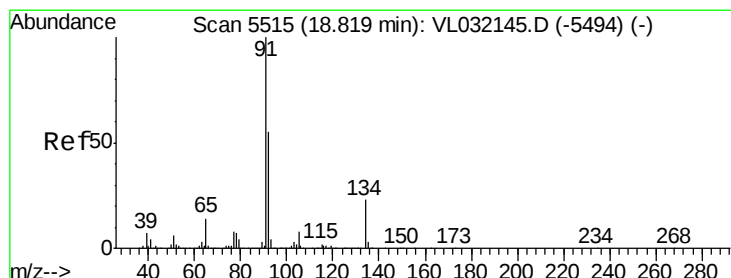
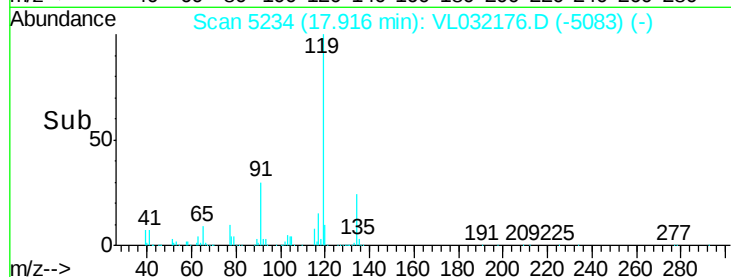
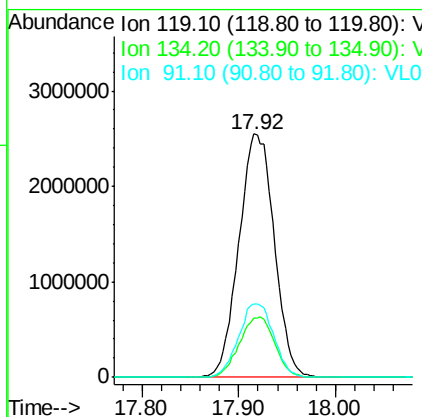
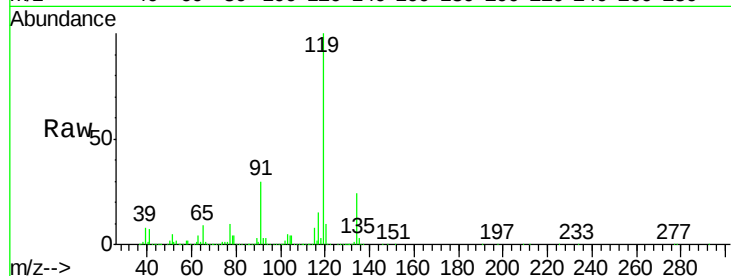
#69
 p-Isopropyltoluene
 Concen: 8.20 ppbv
 RT: 17.92 min Scan# 5234
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.7	31.1
91	30.0	21.8	32.8

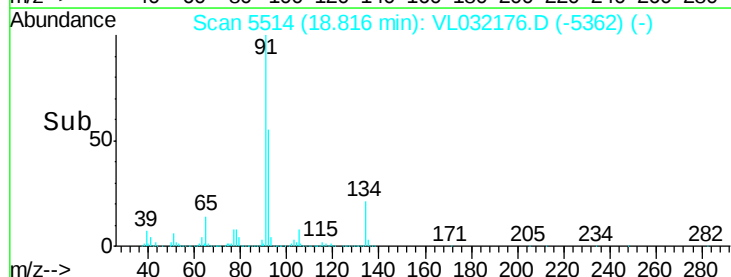
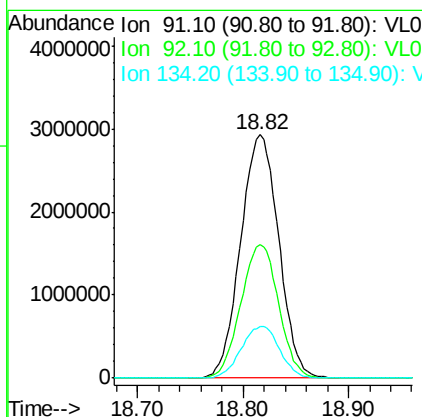
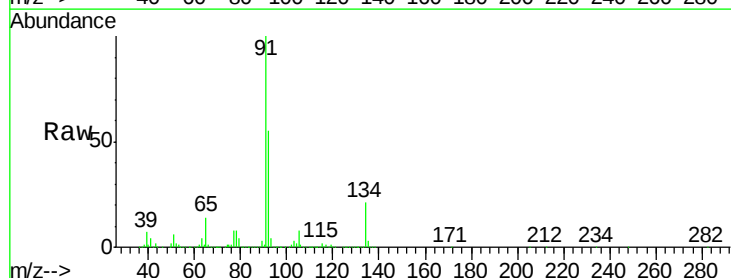
Manual Integrations
 APPROVED

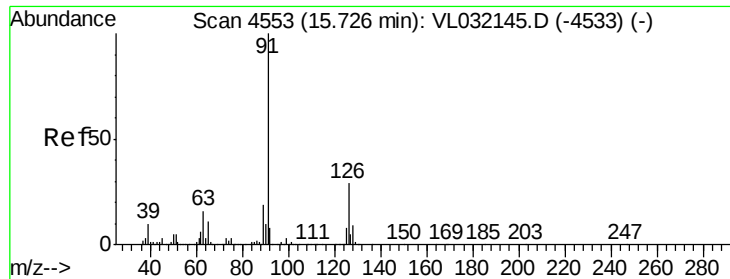
MMDadoda
 7/3/2018 5:17:04 PM



#70
 n-Butylbenzene
 Concen: 8.94 ppbv
 RT: 18.82 min Scan# 5514
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.6	43.7	65.5
134	21.5	18.9	28.3





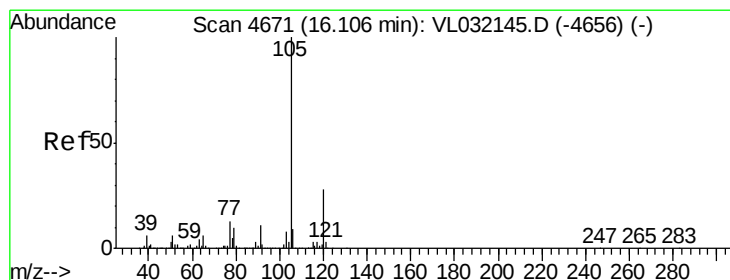
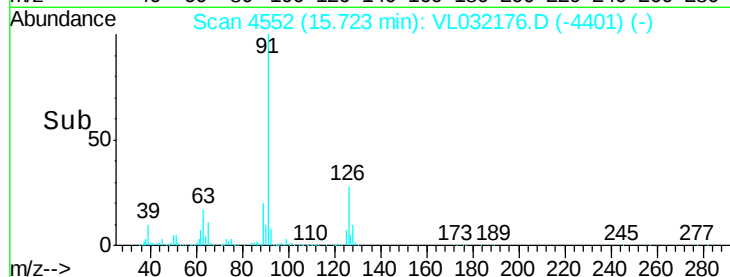
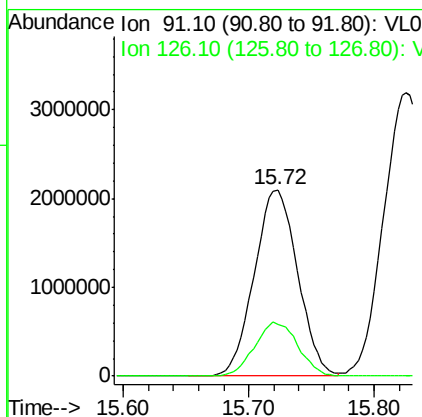
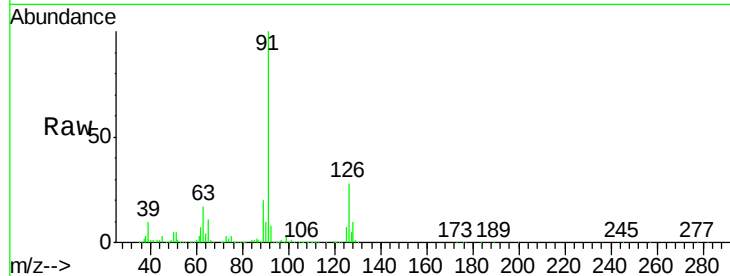
#71
 2-Chlorotoluene
 Concen: 8.57 ppbv
 RT: 15.72 min Scan# 4552
 Delta R.T. -0.02 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 5036510
 Ion Ratio Lower Upper
 91 100
 126 29.0 12.8 51.0

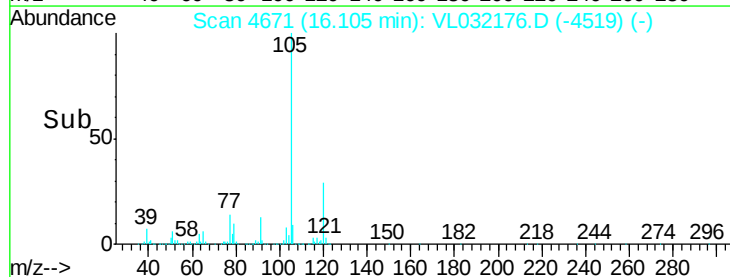
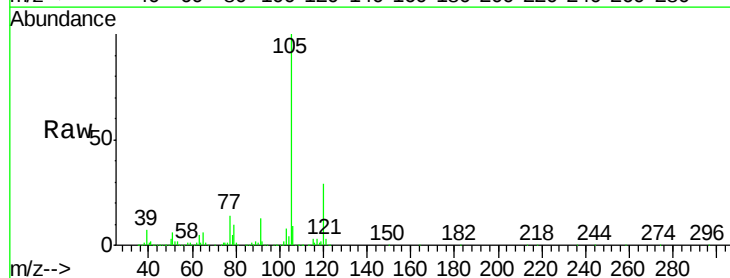
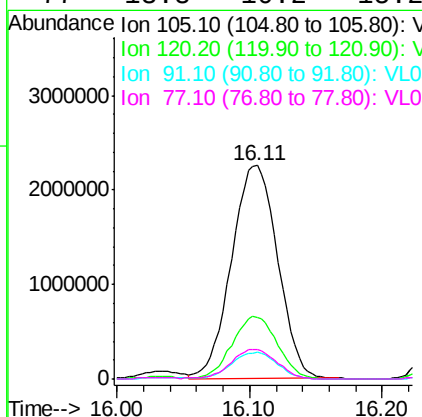
Manual Integrations
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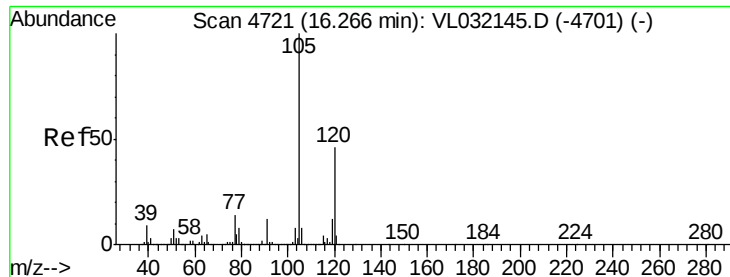
MMDadoda
 7/3/2018 5:17:04 PM



#72
 4-Ethyltoluene
 Concen: 8.52 ppbv
 RT: 16.11 min Scan# 4671
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Tgt Ion: 105 Resp: 5460208
 Ion Ratio Lower Upper
 105 100
 120 28.9 24.3 36.5
 91 12.5 9.4 14.0
 77 13.8 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 8.57 ppbv

RT: 16.26 min Scan# 4720

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 5174518

Ion Ratio Lower Upper

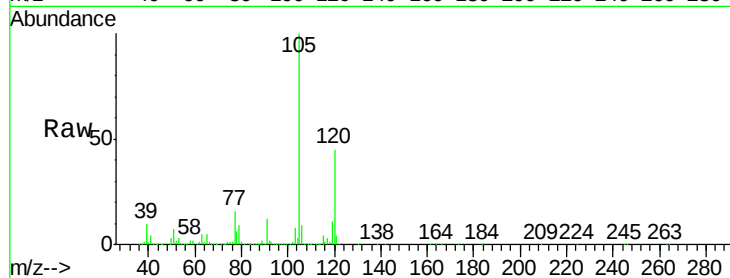
105 100

120 45.1 38.6 57.8

Manual Integrations
APPROVED

MMDadoda

7/3/2018 5:17:04 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2500000

2000000

1500000

1000000

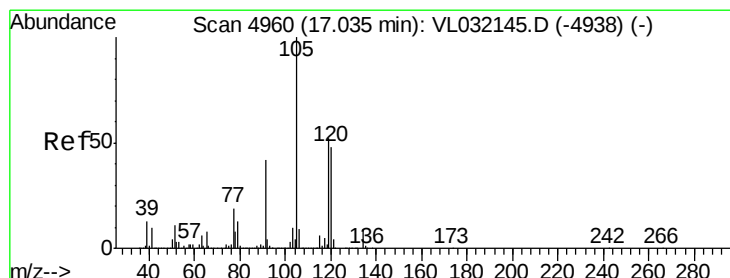
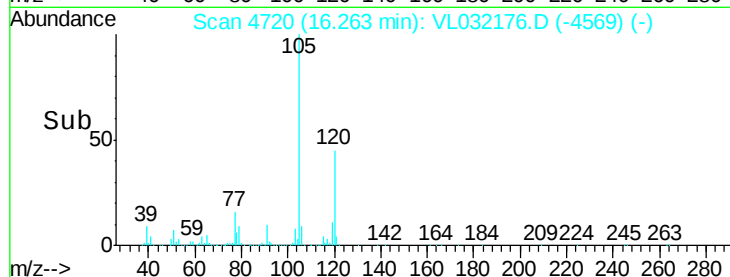
500000

0

16.20

16.30

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.79 ppbv

RT: 17.03 min Scan# 4959

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Tgt Ion:105 Resp: 5356704

Ion Ratio Lower Upper

105 100

120 45.7 38.8 58.2

91 45.2 33.6 50.4

77 20.6 16.0 24.0

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

3000000

2000000

1000000

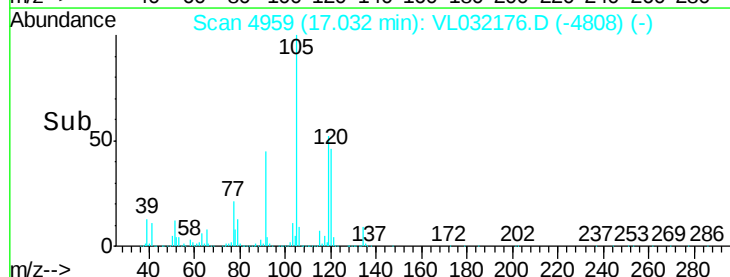
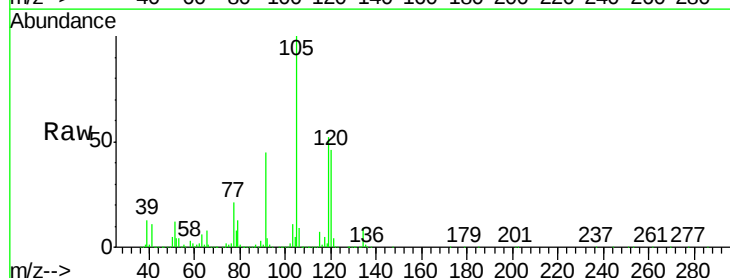
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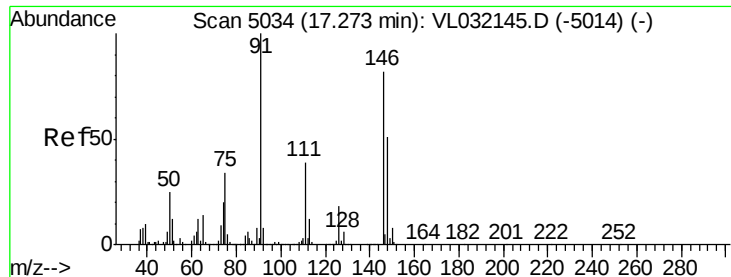
16.90

17.00

17.10

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.43 ppbv

RT: 17.27 min Scan# 5033

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2921978

Ion Ratio Lower Upper

146 100

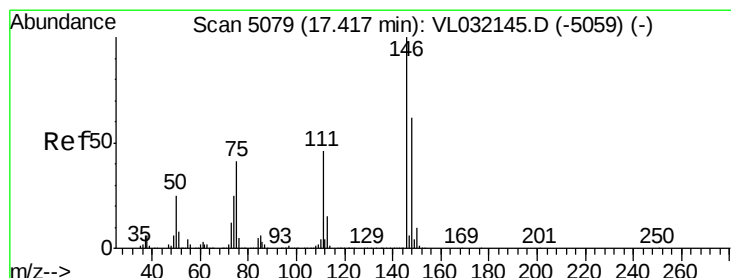
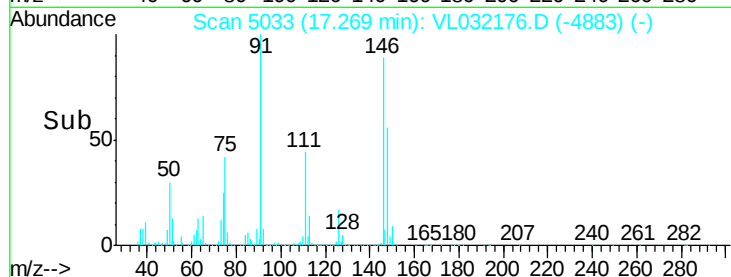
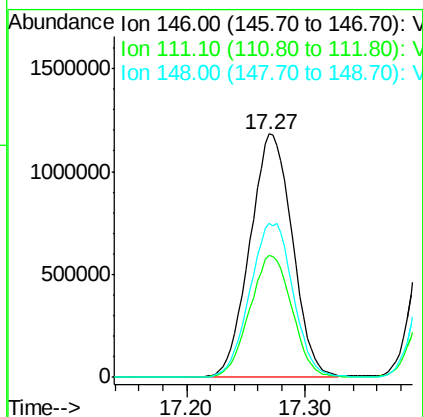
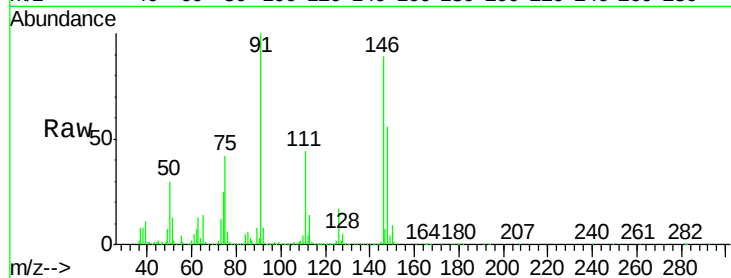
111 50.1 22.9 68.8

148 64.5 31.7 95.1

Manual Integrations
APPROVED

MMDadoda

7/3/2018 5:17:04 PM



#76

1,4-Dichlorobenzene

Concen: 8.62 ppbv

RT: 17.41 min Scan# 5078

Delta R.T. -0.01 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

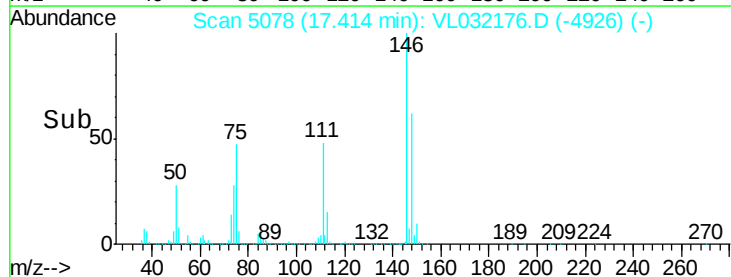
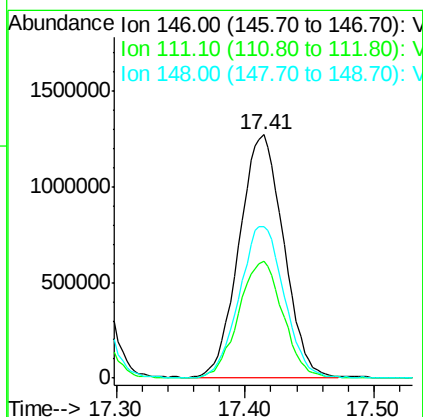
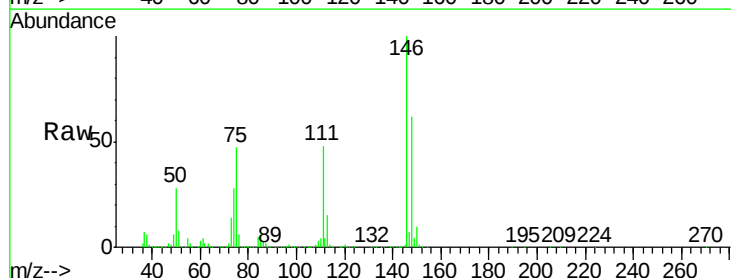
Tgt Ion:146 Resp: 3028687

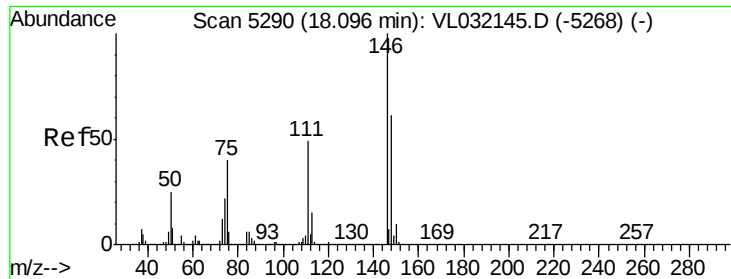
Ion Ratio Lower Upper

146 100

111 48.6 21.9 65.8

148 63.7 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 8.53 ppbv

RT: 18.09 min Scan# 5289

Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Instrument :

MSVOA_L

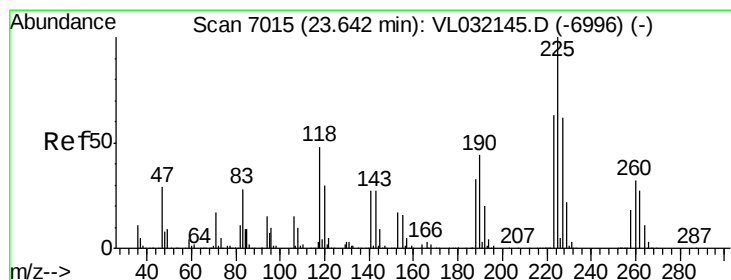
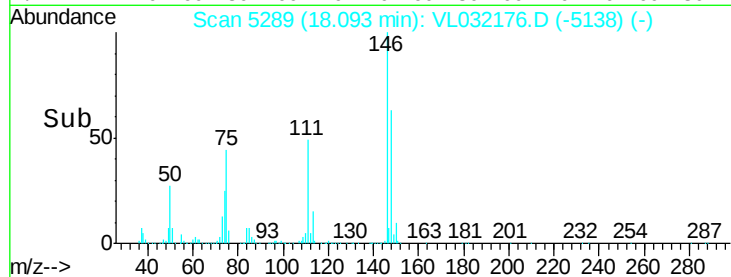
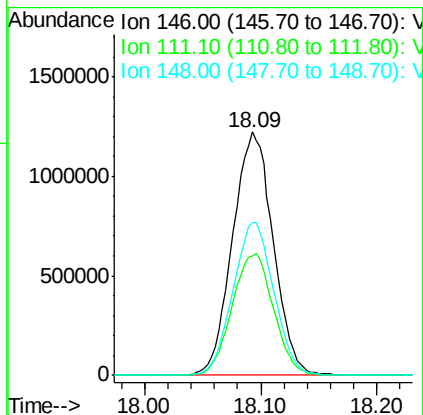
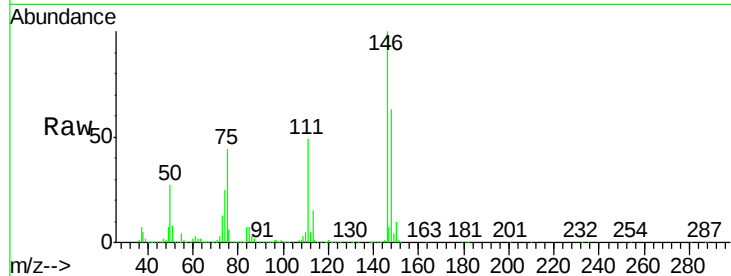
ClientSampleId :

VSTDCCC010

Tot Ion:	146	Resp:	2953851
Ion	Ratio	Lower	Upper
146	100		
111	51.4	23.4	70.3
148	63.3	32.0	96.0

Manual Integrations
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7/3/2018 5:17:04 PM



#78

Hexachloro-1,3-Butadiene

Concen: 14.31 ppbv

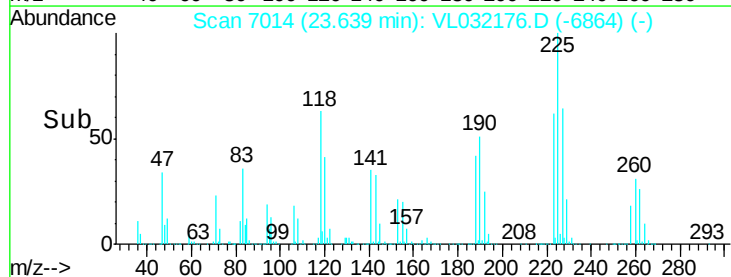
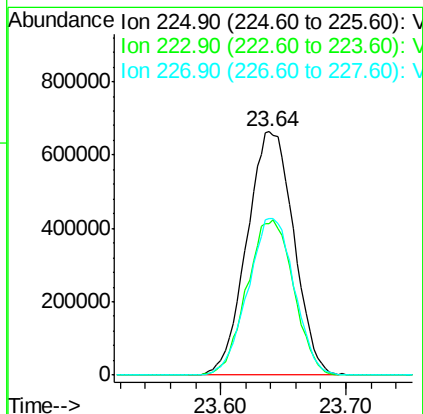
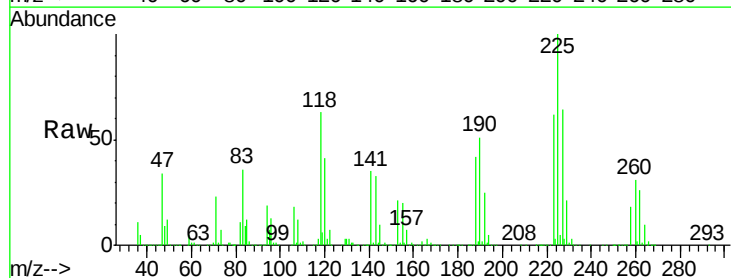
RT: 23.64 min Scan# 7014

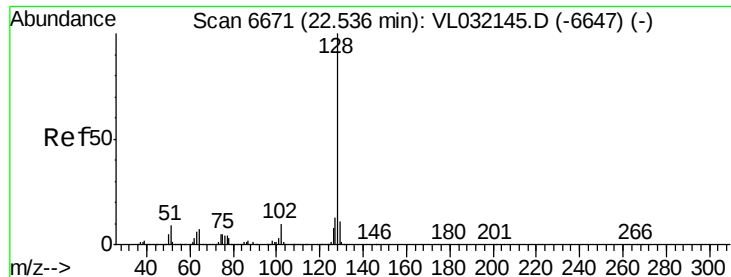
Delta R.T. -0.02 min

Lab File: VL032176.D

Acq: 2 Jul 2018 10:00

Tgt Ion:	225	Resp:	1725729
Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.0	76.4
227	63.6	51.4	77.0





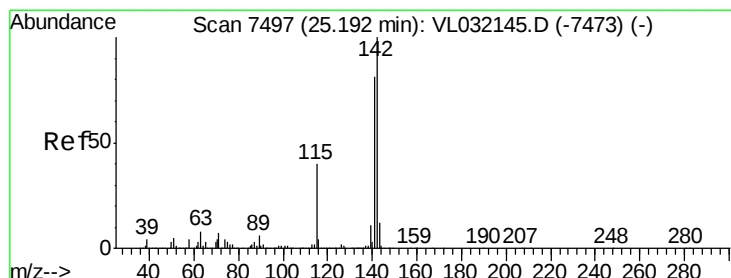
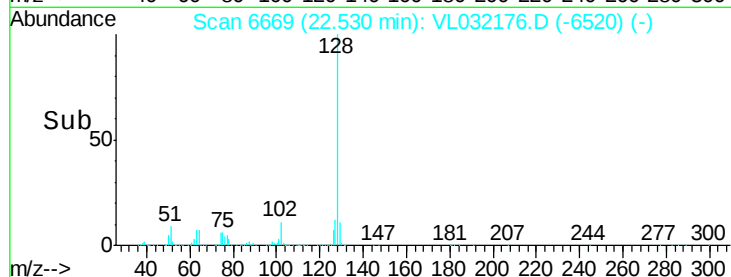
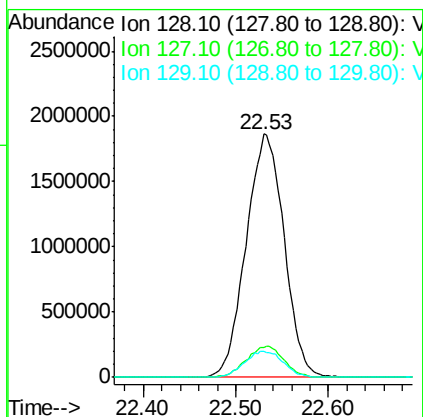
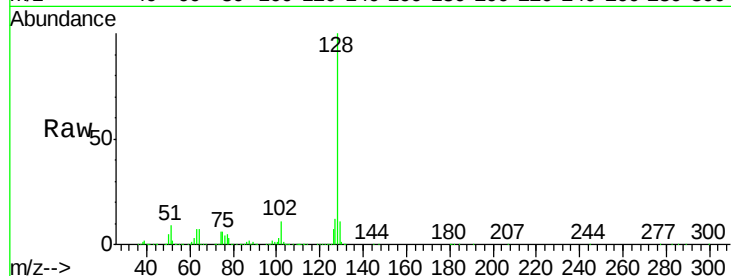
#79
Naphthalene
Concen: 9.60 ppbv
RT: 22.53 min Scan# 6669
Delta R.T. -0.02 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	10.8	9.0	13.6

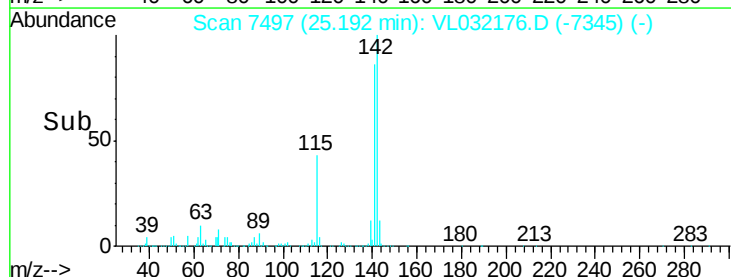
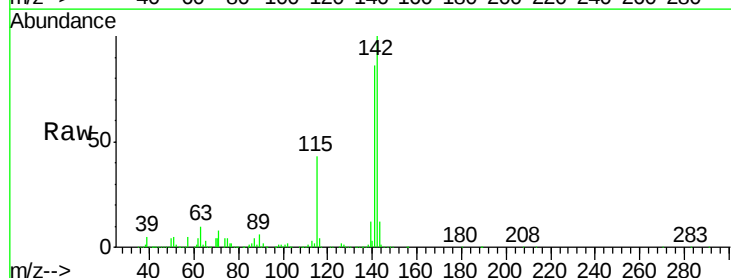
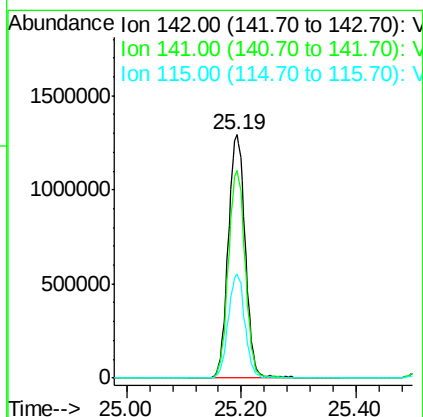
Manual Integrations
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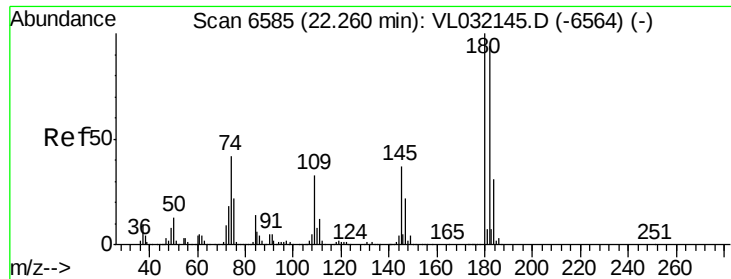
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#80
Naphthalene, 2-methyl-
Concen: 13.32 ppbv
RT: 25.19 min Scan# 7497
Delta R.T. -0.01 min
Lab File: VL032176.D
Acq: 2 Jul 2018 10:00

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.1	65.8	98.6
115	41.7	29.4	44.0





#81
 1,2,4-Trichlorobenzene
 Concen: 9.90 ppbv
 RT: 22.26 min Scan# 6585
 Delta R.T. -0.01 min
 Lab File: VL032176.D
 Acq: 2 Jul 2018 10:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.2	114.4
184	30.2	24.4	36.6

Manual Integrations
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MMDadoda
 7/3/2018 5:17:04 PM

