

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032259.D
 Acq On : 18 Jul 2018 9:18
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:02 PM

Quant Time: Jul 18 09:57:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 18 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1759418	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3988789	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4462243m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3663052	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2783254	10.99	ppbv	99
3) Chlorodifluoromethane	3.06	51	1802500	8.34	ppbv	99
4) Chloromethane	3.22	50	1090128	8.86	ppbv	99
5) Vinyl Chloride	3.34	62	1031646	8.51	ppbv	99
6) Bromomethane	3.57	94	562961	8.35	ppbv	97
7) Chloroethane	3.66	64	363690	8.72	ppbv	99
8) Dichlorotetrafluoroethane	3.27	85	2192131	7.88	ppbv	99
9) Propene	3.09	41	859700	9.33	ppbv	100
10) Heptane	8.33	43	2960906	11.31	ppbv	99
11) Trichlorofluoromethane	4.07	101	2168217	8.95	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1343168	8.68	ppbv	99
13) Ethanol	3.71	45	207855	7.81	ppbv	99
14) Bromoethene	3.85	108	640069	8.77	ppbv	99
15) Acetone	3.96	43	1683733	8.25	ppbv	99
16) 1,3-Butadiene	3.42	39	911963	8.84	ppbv	99
17) tert-Butyl alcohol	4.42	59	550631	5.78	ppbv	99
18) 1,1-Dichloroethene	4.42	96	645520	8.96	ppbv	96
19) Isopropyl Alcohol	4.09	45	1232582	9.19	ppbv	99
20) Methylene Chloride	4.47	84	596271	8.62	ppbv	99
21) Allyl Chloride	4.55	41	1176007	9.84	ppbv	98
22) trans-1,2-Dichloroethene	5.04	96	692427	10.10	ppbv	98
23) Vinyl Acetate	5.22	43	3296781	9.71	ppbv	99
24) 1,1-Dichloroethane	5.16	63	2233408	9.37	ppbv	99
25) Ethyl Acetate	5.85	43	3771447	9.33	ppbv	100
26) Hexane	5.86	57	1717593	9.32	ppbv	99
27) Carbon Disulfide	4.69	76	1712126	10.38	ppbv	98
28) Methyl tert-Butyl Ether	5.18	73	2730950	9.41	ppbv	98
29) Chloroform	5.93	83	2595098	9.12	ppbv	97
30) Cyclohexane	7.33	84	1522038	9.36	ppbv	97
31) cis-1,2-Dichloroethene	5.72	61	1730850	9.41	ppbv	97
32) 1,1,1-Trichloroethane	6.70	97	2589157	9.38	ppbv	100
34) 2-Butanone	5.40	43	2600940	9.57	ppbv	99
35) Carbon Tetrachloride	7.22	117	2572586	9.53	ppbv	98
36) Benzene	7.09	78	3693090	9.32	ppbv	98
37) 1,2-Dichloroethane	6.49	62	2144911	9.88	ppbv	99
38) Trichloroethene	8.05	130	1240117	9.12	ppbv	98
39) 1,2-Dichloropropane	7.82	63	1467211	9.31	ppbv	98
40) 1,4-Dioxane	8.04	88	476835	8.83	ppbv #	44
41) Tetrahydrofuran	6.23	42	1656297	10.89	ppbv	97
42) Bromodichloromethane	8.00	83	2807189	9.08	ppbv	97
43) Methyl Methacrylate	8.22	69	1861188	12.15	ppbv	98

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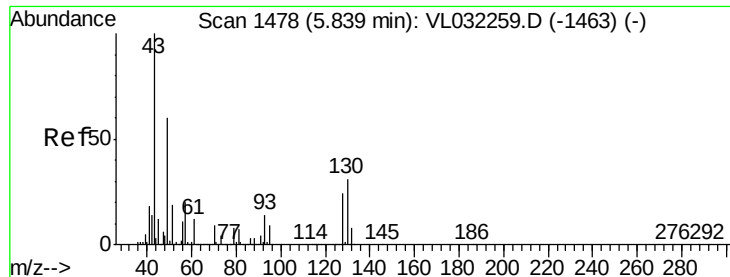
Manual Integrations
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Quant Time: Jul 18 09:57:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 18 2018
 QLast Update : Fri Jul 13 04:25:14 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	7127183	10.45	ppbv	99
45) t-1,3-Dichloropropene	9.50	75	2040116	11.18	ppbv	98
46) cis-1,3-Dichloropropene	8.93	75	2724718	10.95	ppbv	99
47) 1,1,2-Trichloroethane	9.71	97	1669541	9.49	ppbv	98
48) Dibromochloromethane	10.55	129	2486817	9.50	ppbv	100
49) Bromoform	13.30	173	2080241	9.91	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	4623638	9.83	ppbv	99
51) 2-Hexanone	10.36	43	3179539	8.10	ppbv #	99
52) Tetrachloroethene	11.47	164	1187001	8.10	ppbv	98
53) Toluene	10.04	91	4742004	10.12	ppbv	99
54) 1,2-Dibromoethane	10.85	107	2411502	9.28	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	1802476	9.30	ppbv #	60
57) Chlorobenzene	12.40	112	3252662	8.62	ppbv	98
58) Ethyl Benzene	12.96	91	6451927	9.93	ppbv	100
59) m/p-Xylene	13.24	91	9837937m	18.40	ppbv	
60) o-Xylene	13.95	91	4737771	8.98	ppbv	100
61) Styrene	13.78	104	4085255	10.33	ppbv	100
62) Isopropylbenzene	14.92	105	7233245	9.78	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.93	83	3548697	8.27	ppbv	99
64) n-propylbenzene	15.82	120	1903344	10.16	ppbv	100
65) tert-Butylbenzene	17.00	119	5892591	9.51	ppbv	100
66) Benzyl Chloride	17.25	91	4215003	13.44	ppbv	100
67) sec-Butylbenzene	17.55	105	8751563	9.67	ppbv	100
69) p-Isopropyltoluene	17.91	119	6877974	9.76	ppbv	100
70) n-Butylbenzene	18.81	91	7729084	9.93	ppbv	100
71) 2-Chlorotoluene	15.71	91	5875184	10.09	ppbv	99
72) 4-Ethyltoluene	16.10	105	6096463	10.30	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	5754274	10.45	ppbv	98
74) 1,2,4-Trimethylbenzene	17.02	105	5568634	9.89	ppbv	99
75) 1,3-Dichlorobenzene	17.26	146	3057649	9.11	ppbv	100
76) 1,4-Dichlorobenzene	17.40	146	3135807	9.54	ppbv	99
77) 1,2-Dichlorobenzene	18.08	146	3020095	9.05	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	895573	8.61	ppbv	99
79) Naphthalene	22.52	128	5089402	13.47	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2500339	20.71	ppbv	100
81) 1,2,4-Trichlorobenzene	22.25	180	2393920	12.66	ppbv	99

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



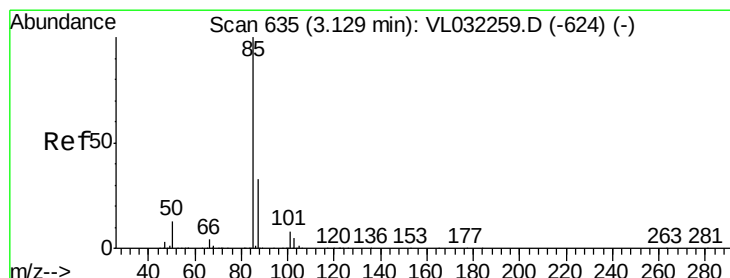
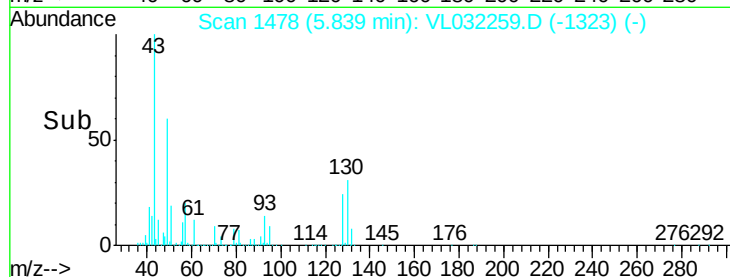
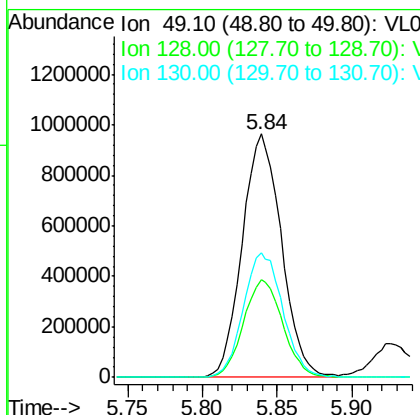
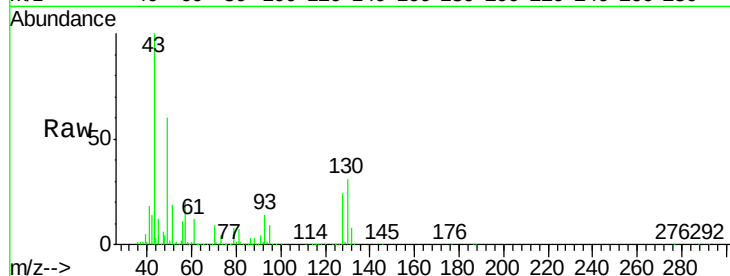
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.84 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

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ClientSampleId :
VSTDICCC010

Tot Ion: 49 Resp: 1759418
Ion Ratio Lower Upper
49 100
128 40.1 20.9 62.8
130 51.7 27.0 81.0

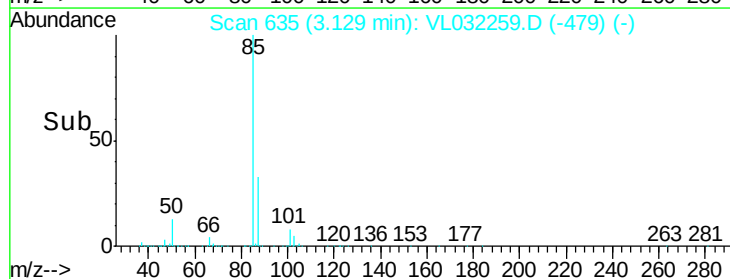
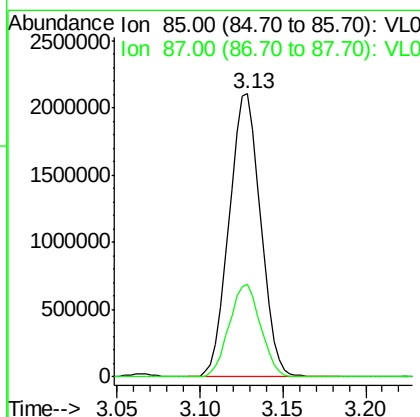
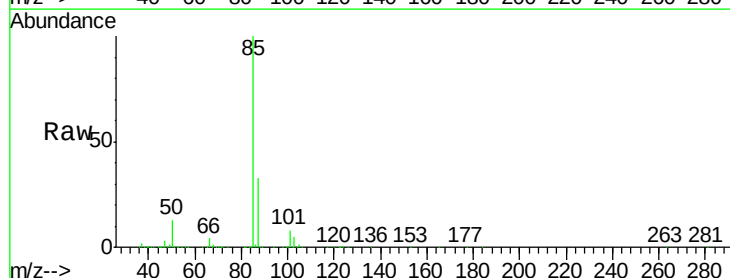
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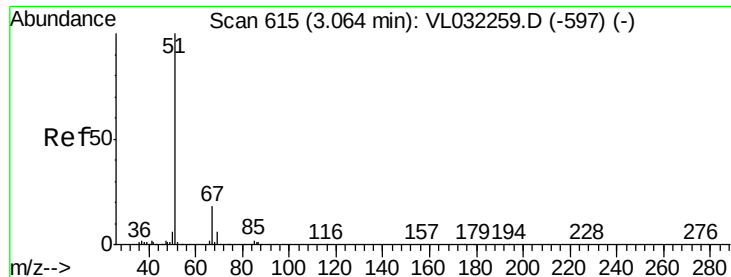
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#2
Dichlorodifluoromethane
Concen: 10.99 ppbv
RT: 3.13 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion: 85 Resp: 2783254
Ion Ratio Lower Upper
85 100
87 32.7 25.8 38.6





#3

Chlorodifluoromethane

Concen: 8.34 ppbv

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 51 Resp: 1802500

Ion Ratio Lower Upper

51 100

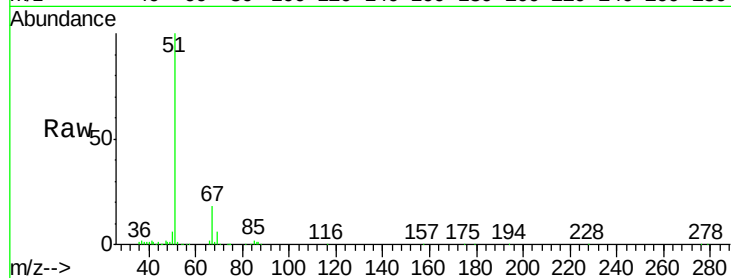
67 17.8 14.6 22.0

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

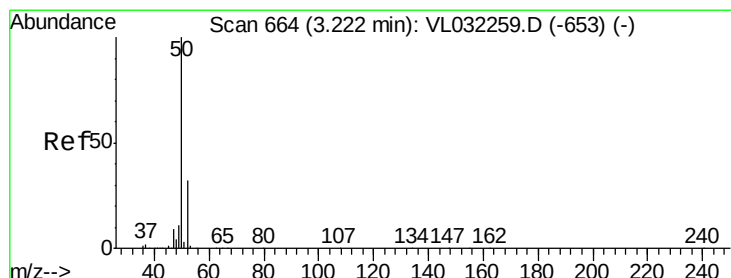
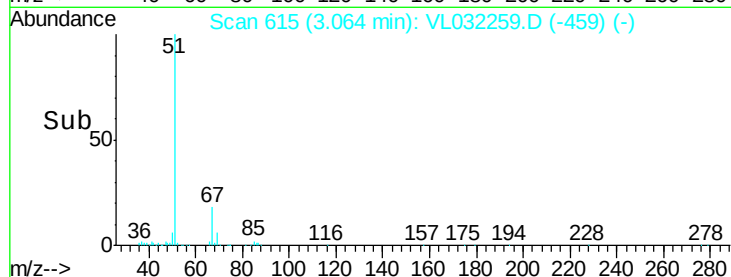
1500000

1000000

500000

0

Time-->



#4

Chloromethane

Concen: 8.86 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032259.D

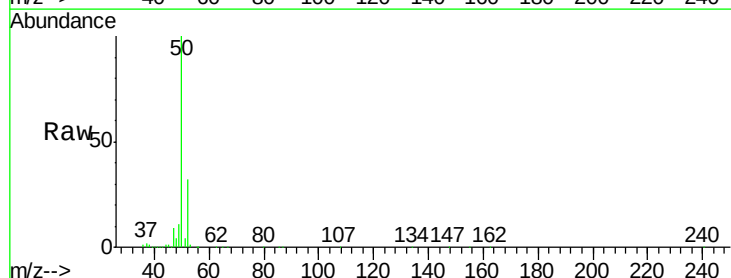
Acq: 18 Jul 2018 9:18

Tgt Ion: 50 Resp: 1090128

Ion Ratio Lower Upper

50 100

52 31.6 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

800000

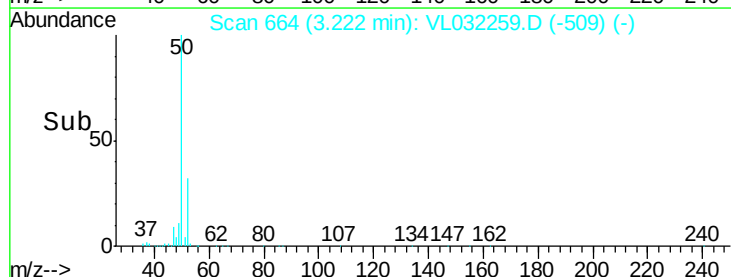
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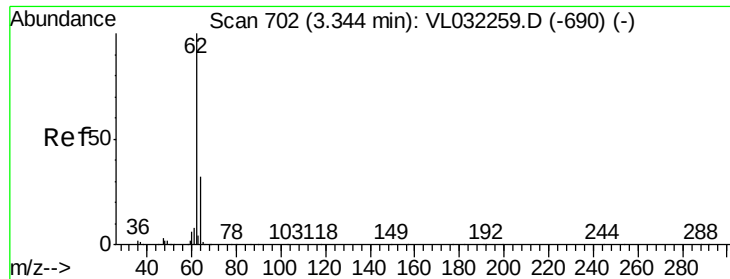
400000

200000

0

Time-->





#5

Vinyl Chloride

Concen: 8.51 ppbv

RT: 3.34 min Scan# 702

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1031646

Ion Ratio Lower Upper

62 100

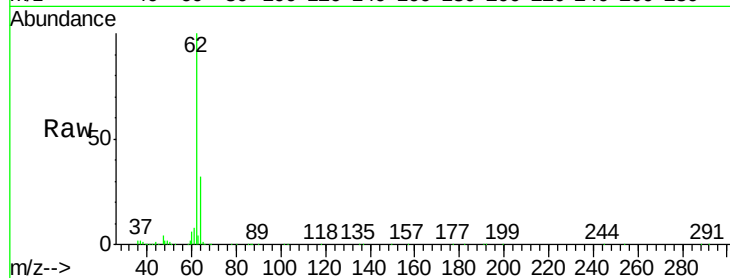
64 31.6 25.8 38.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.34

800000

600000

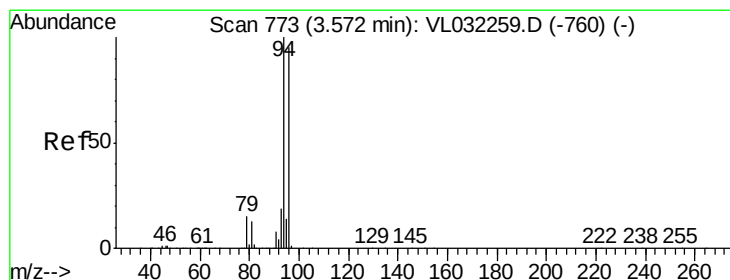
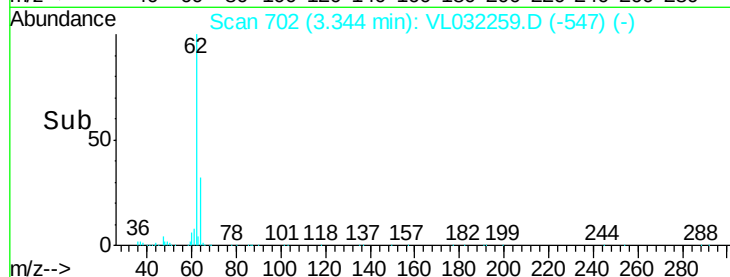
400000

200000

0

3.30 3.35 3.40

Time-->



#6

Bromomethane

Concen: 8.35 ppbv

RT: 3.57 min Scan# 773

Delta R.T. 0.00 min

Lab File: VL032259.D

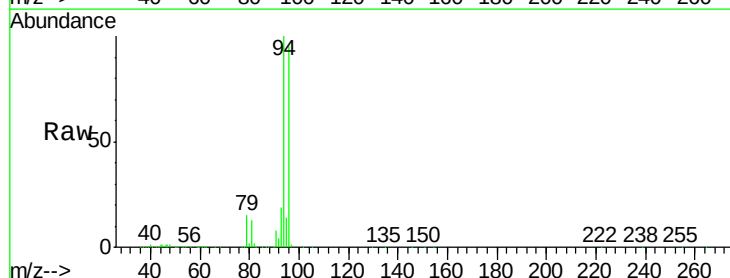
Acq: 18 Jul 2018 9:18

Tgt Ion: 94 Resp: 562961

Ion Ratio Lower Upper

94 100

96 95.1 73.5 110.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.57

400000

300000

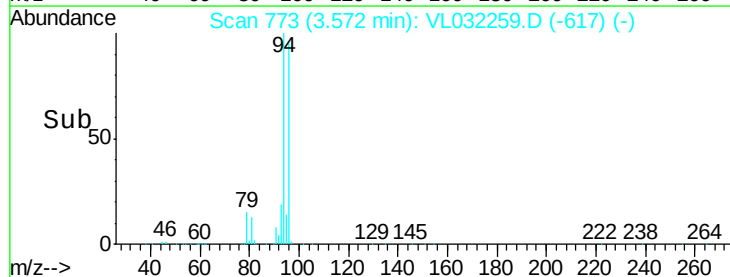
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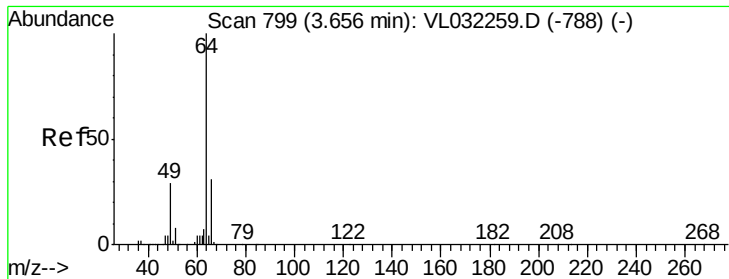
100000

0

3.50 3.55 3.60

Time-->





#7

Chloroethane

Concen: 8.72 ppbv

RT: 3.66 min Scan# 799

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 363690

Ion Ratio Lower Upper

64 100

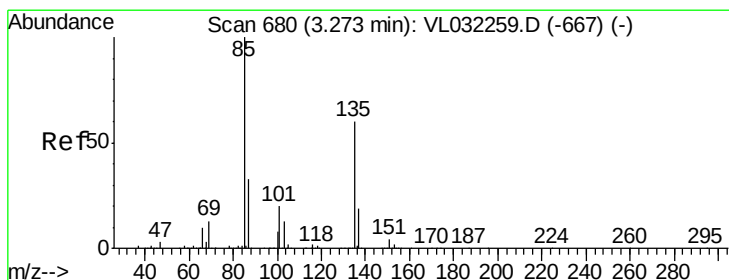
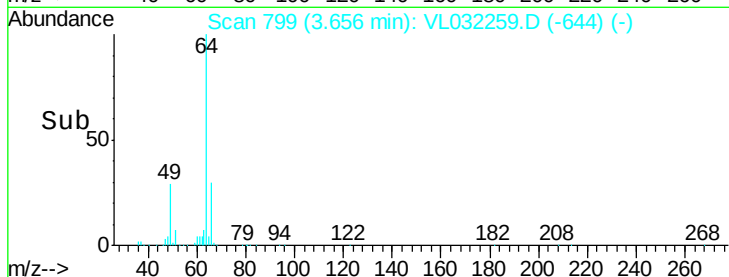
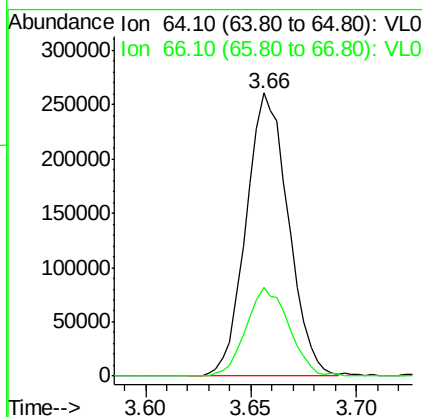
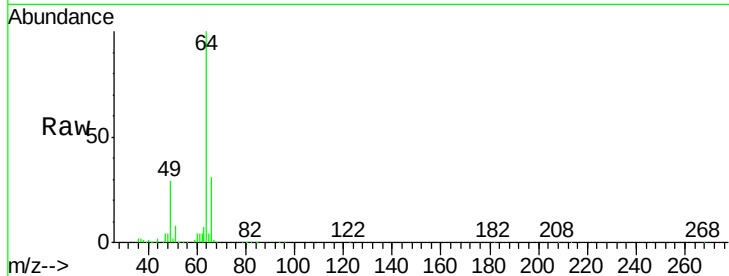
66 31.2 24.4 36.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 7.88 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL032259.D

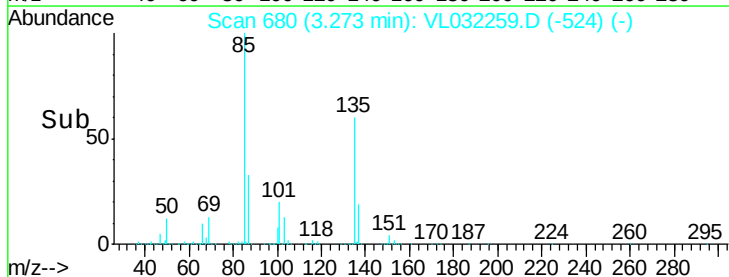
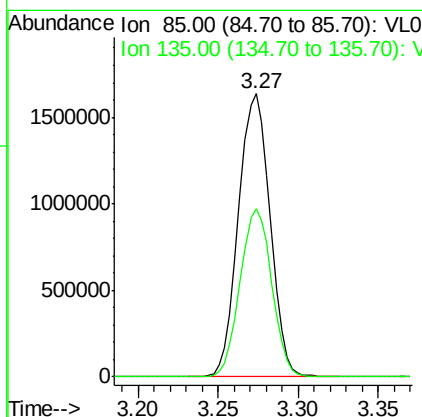
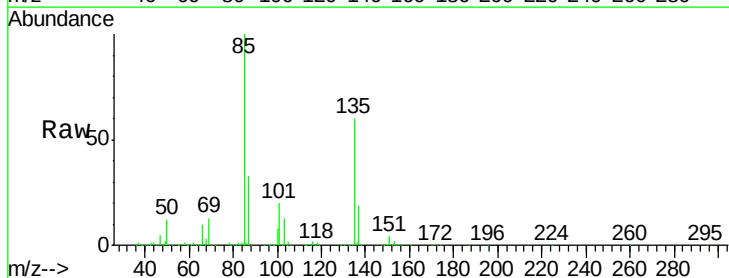
Acq: 18 Jul 2018 9:18

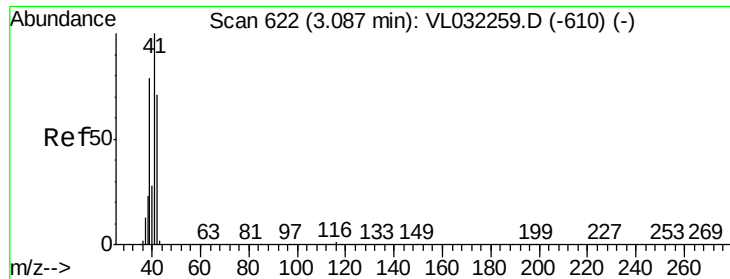
Tgt Ion: 85 Resp: 2192131

Ion Ratio Lower Upper

85 100

135 59.8 48.6 72.8





#9

Propene

Concen: 9.33 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 859700

Ion Ratio Lower Upper

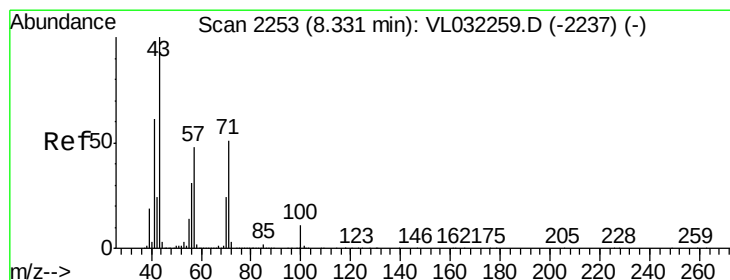
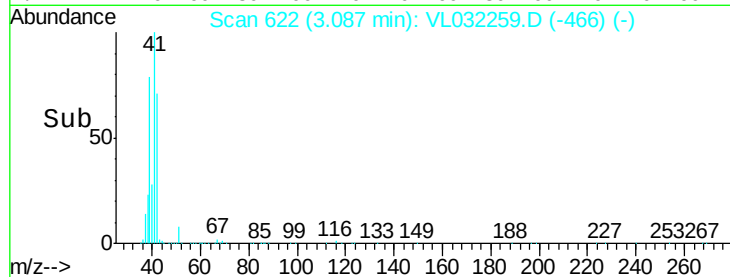
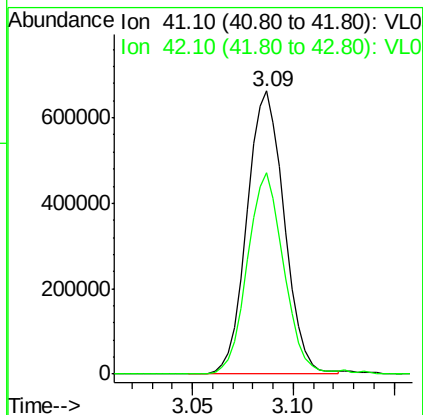
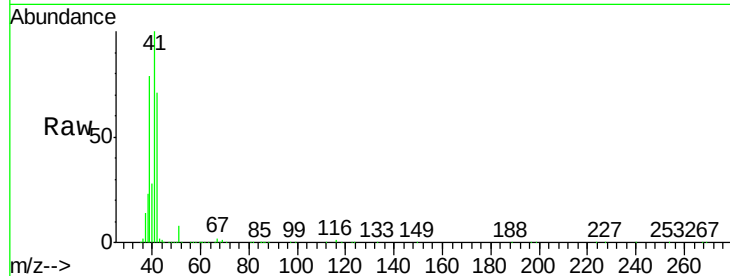
41 100

42 70.3 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 11.31 ppbv

RT: 8.33 min Scan# 2253

Delta R.T. -0.01 min

Lab File: VL032259.D

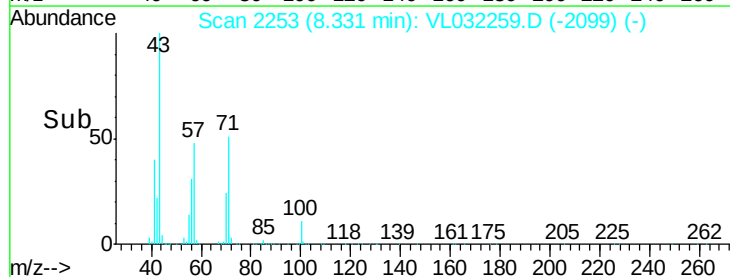
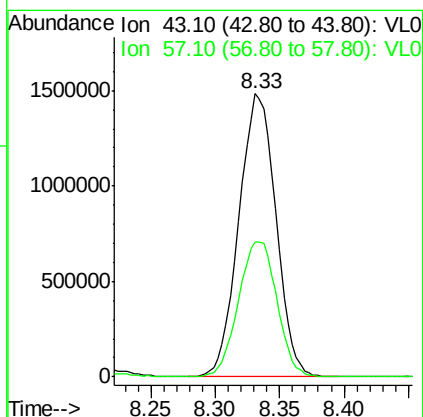
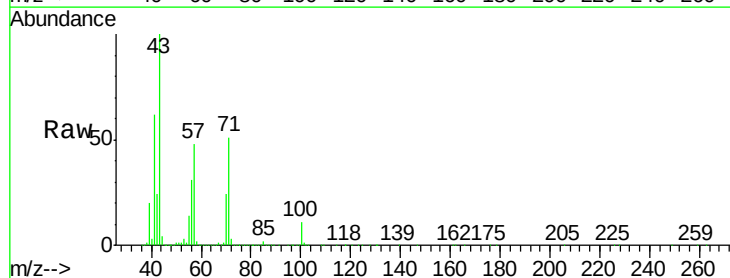
Acq: 18 Jul 2018 9:18

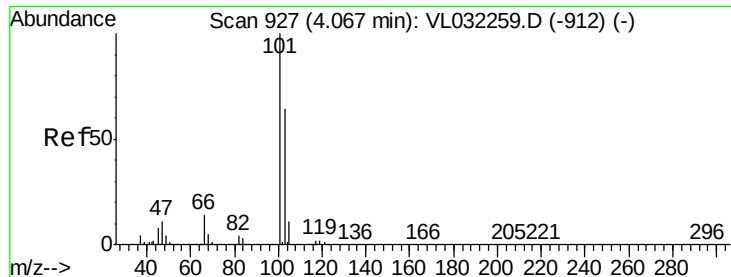
Tgt Ion: 43 Resp: 2960906

Ion Ratio Lower Upper

43 100

57 49.9 40.7 61.1





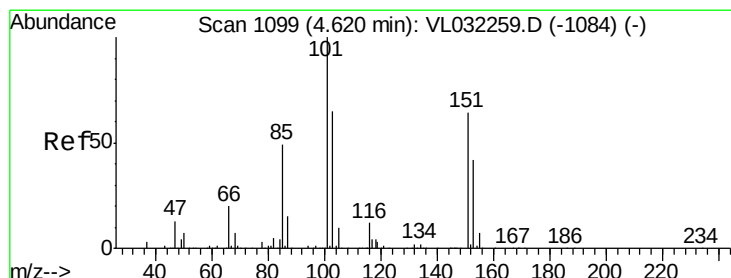
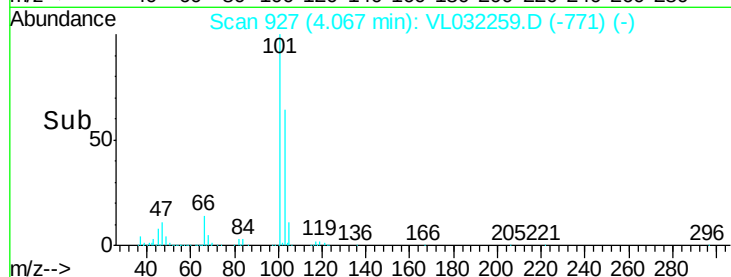
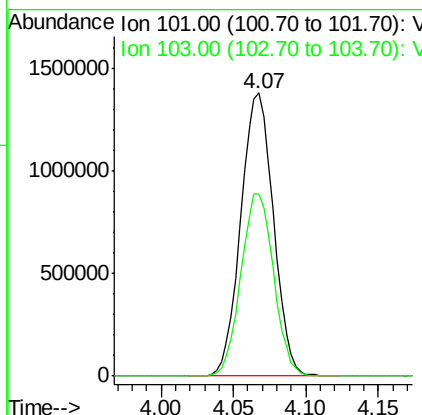
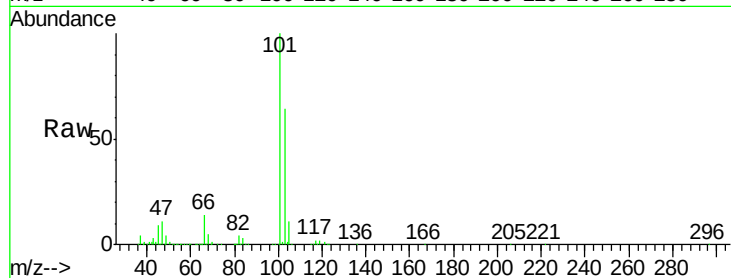
#11
 Trichlorofluoromethane
 Concen: 8.95 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 2168217
 Ion Ratio Lower Upper
 101 100
 103 64.4 50.2 75.2

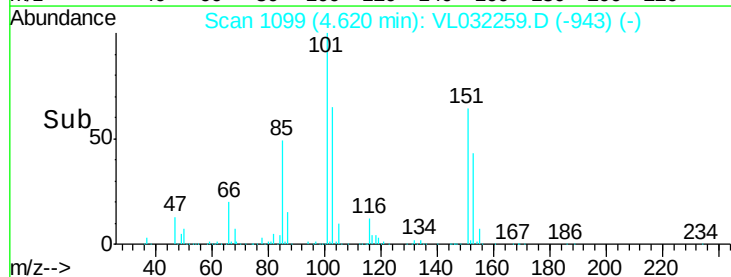
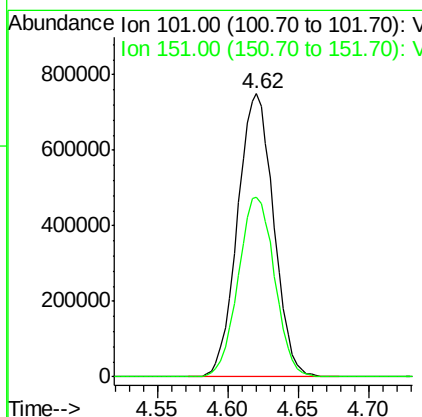
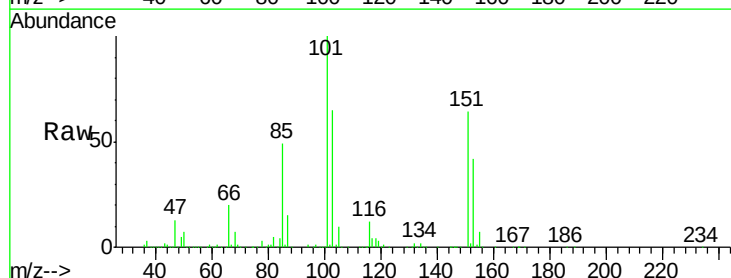
Manual Integrations
 APPROVED

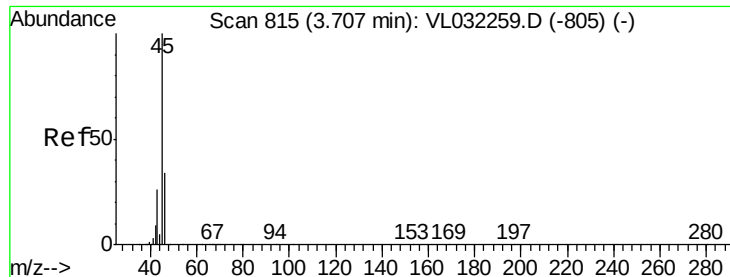
MMDadoda
 7/20/2018 2:53:02 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.68 ppbv
 RT: 4.62 min Scan# 1099
 Delta R.T. 0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion:101 Resp: 1343168
 Ion Ratio Lower Upper
 101 100
 151 64.1 52.2 78.2





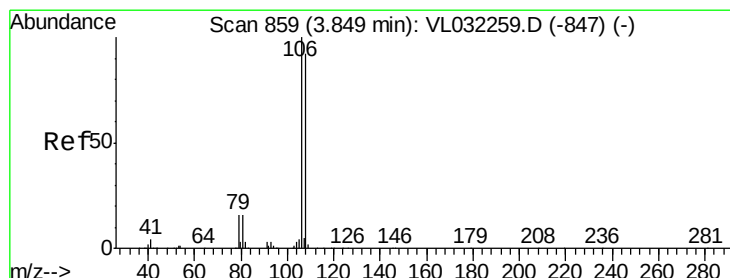
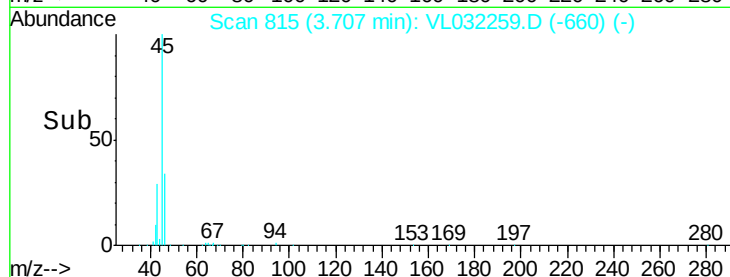
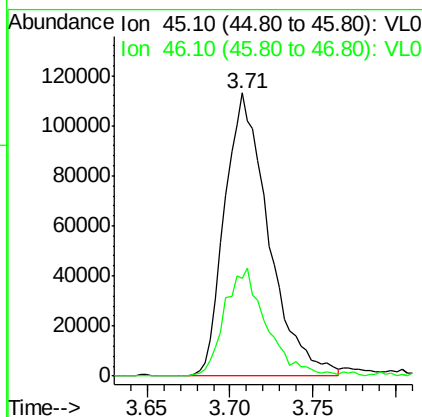
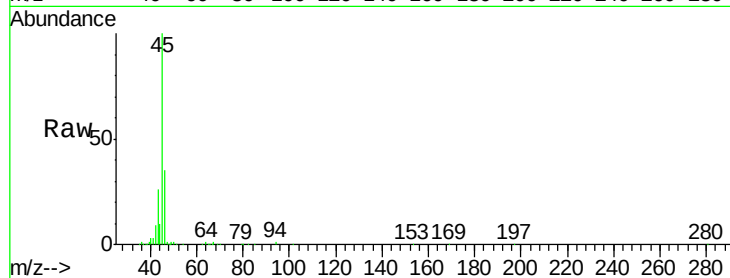
#13
Ethanol
Concen: 7.81 ppbv
RT: 3.71 min Scan# 815
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	45	Resp	207855
Ion Ratio	100	Lower	Upper
46	38.0	15.5	61.9

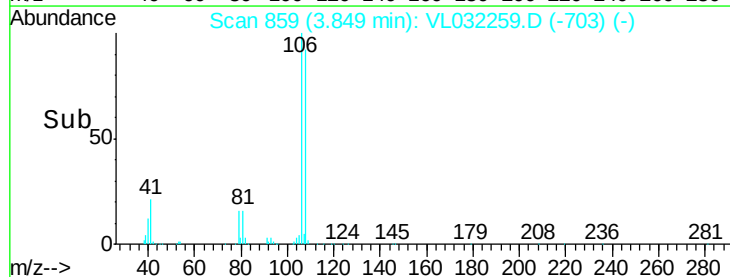
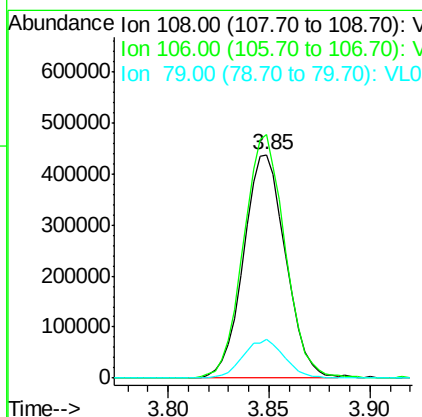
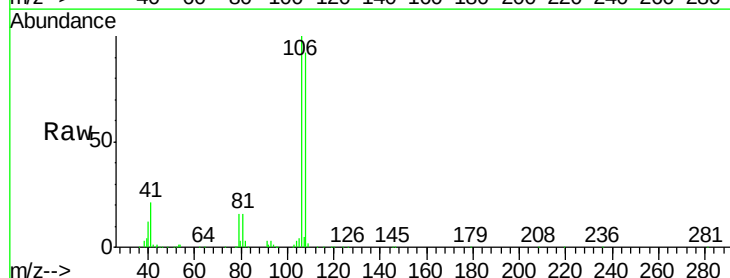
Manual Integrations
APPROVED

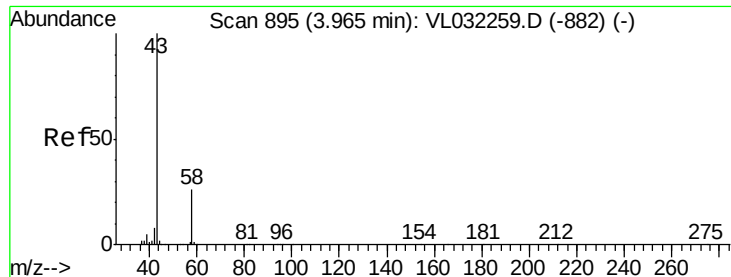
MMDadoda
7/20/2018 2:53:02 PM



#14
Bromoethene
Concen: 8.77 ppbv
RT: 3.85 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion	108	Resp	640069
Ion Ratio	100	Lower	Upper
106	107.8	85.5	128.3
79	17.5	14.2	21.4





#15

Acetone

Concen: 8.25 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1683733

Ion Ratio Lower Upper

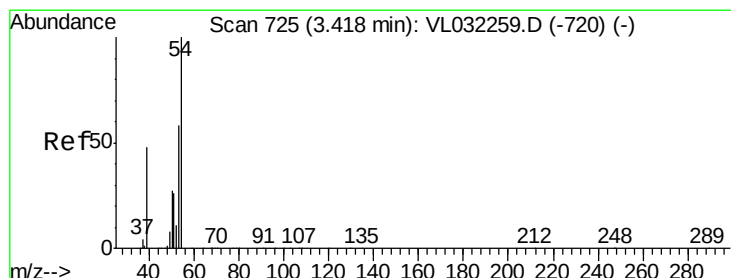
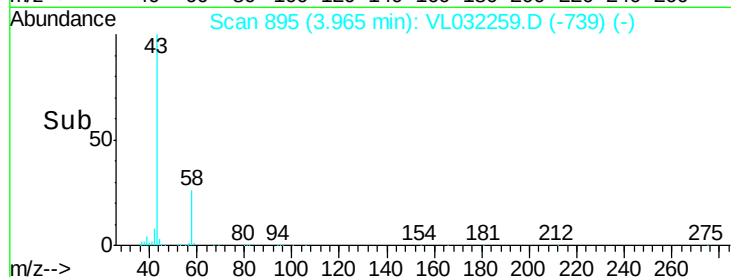
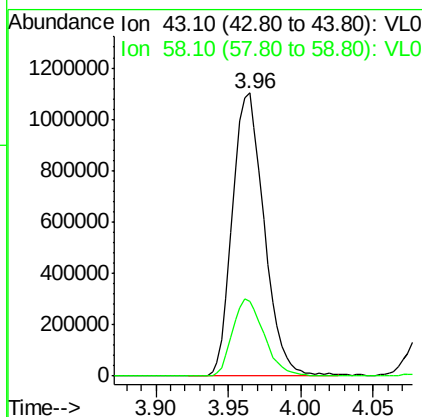
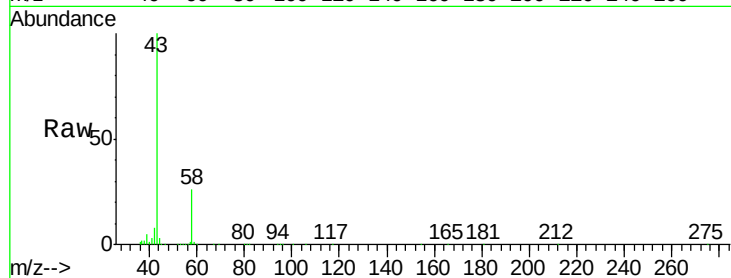
43 100

58 27.2 21.5 32.3

Manual Integrations
APPROVED

MMDadoda

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#16

1,3-Butadiene

Concen: 8.84 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VL032259.D

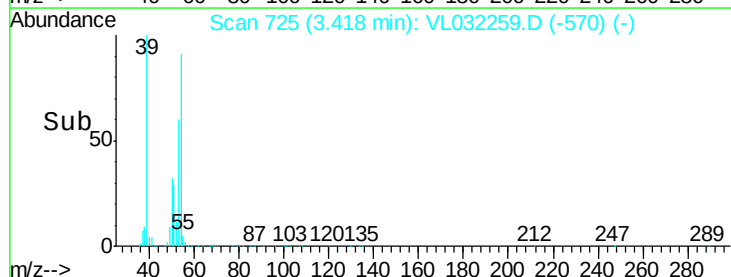
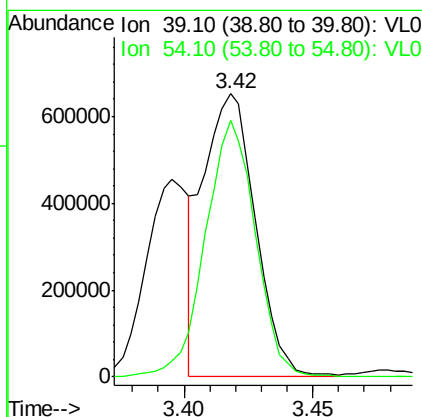
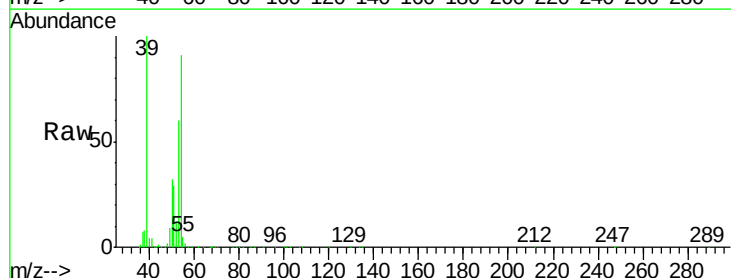
Acq: 18 Jul 2018 9:18

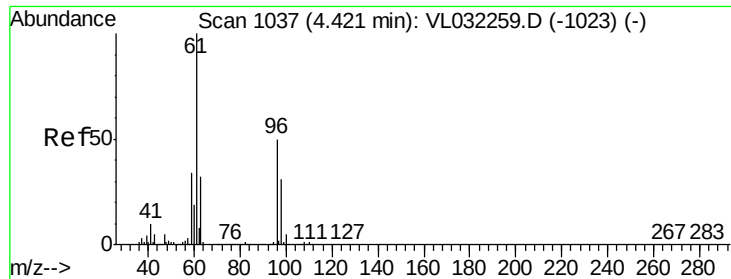
Tgt Ion: 39 Resp: 911963

Ion Ratio Lower Upper

39 100

54 88.2 70.0 105.0





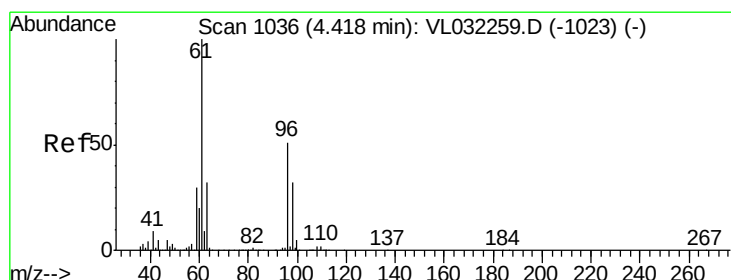
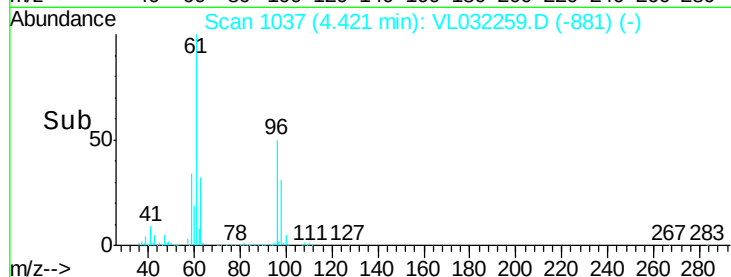
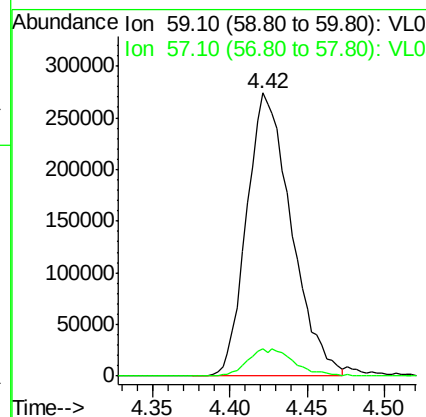
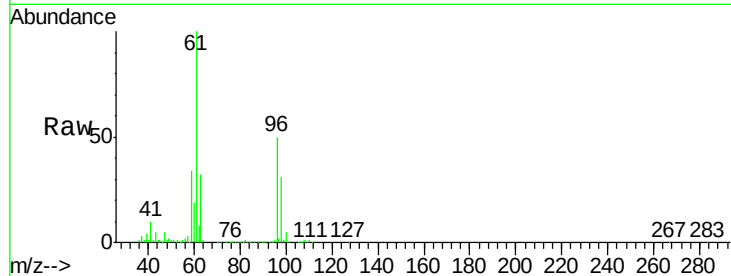
#17
 tert-Butyl alcohol
 Concen: 5.78 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.4	12.6

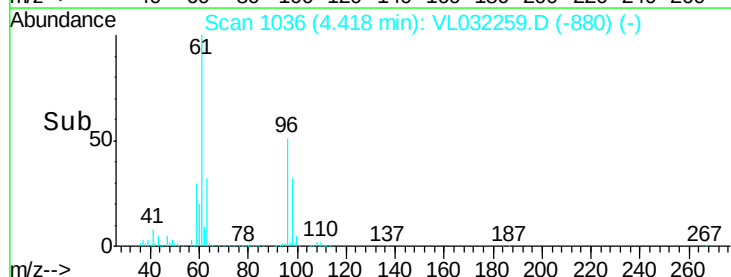
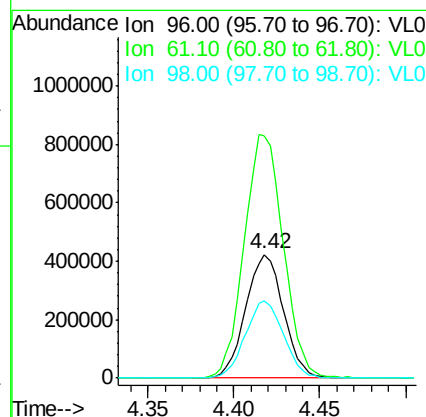
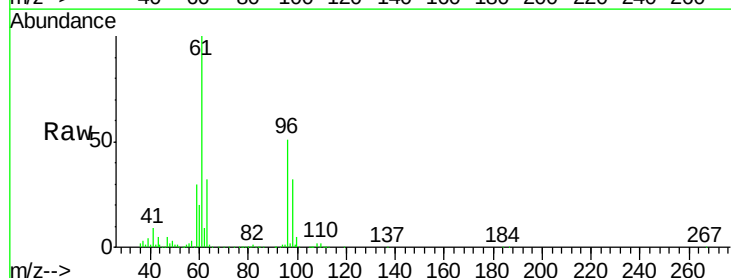
Manual Integrations
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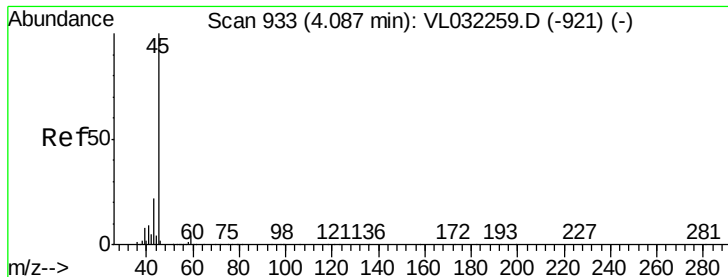
MMDadoda
 7/20/2018 2:53:02 PM



#18
 1,1-Dichloroethene
 Concen: 8.96 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	196.5	163.0	244.4
98	62.6	48.5	72.7





#19

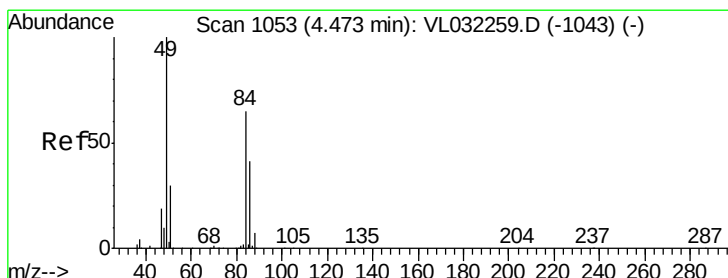
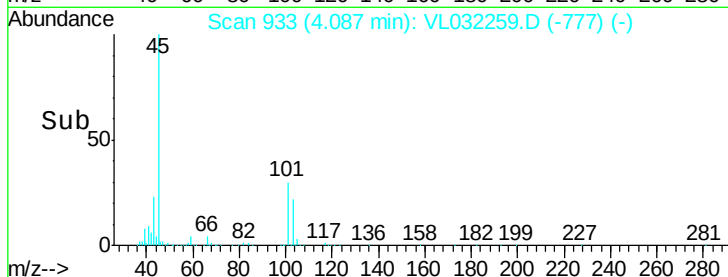
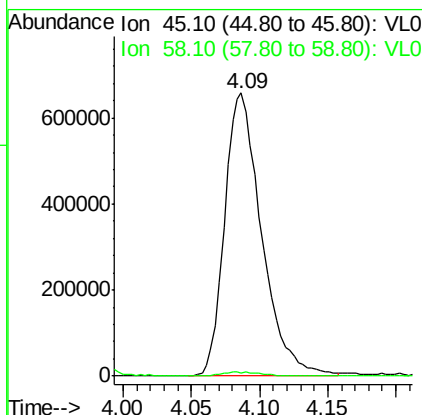
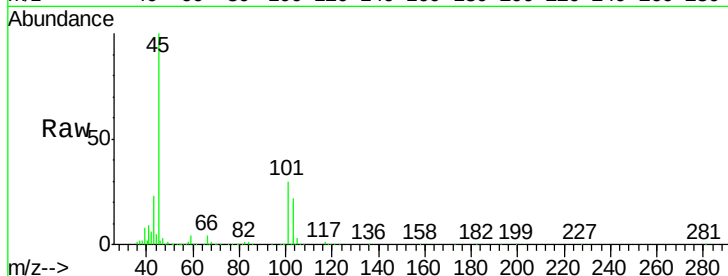
Isopropyl Alcohol
 Concen: 9.19 ppbv
 RT: 4.09 min Scan# 933
 Delta R.T. 0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.9	1.3	1.9

Manual Integrations
 APPROVED

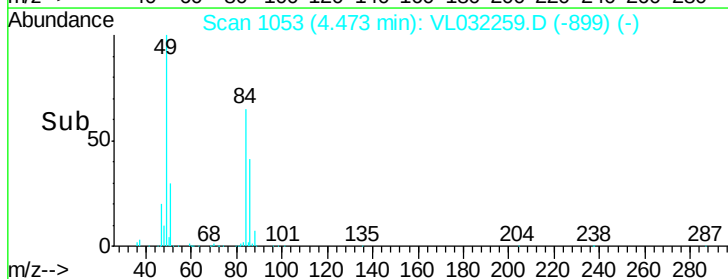
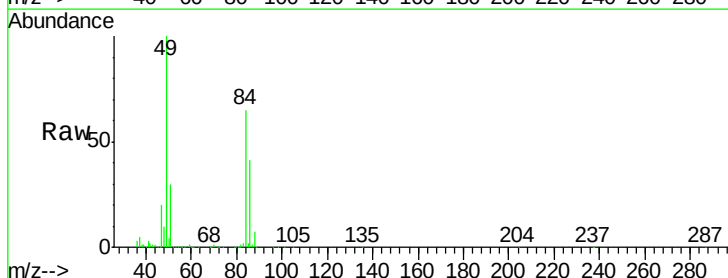
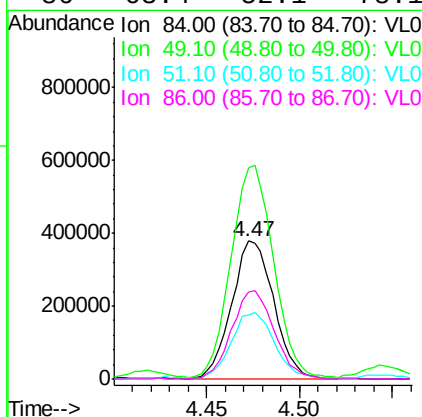
MMDadoda
 7/20/2018 2:53:02 PM

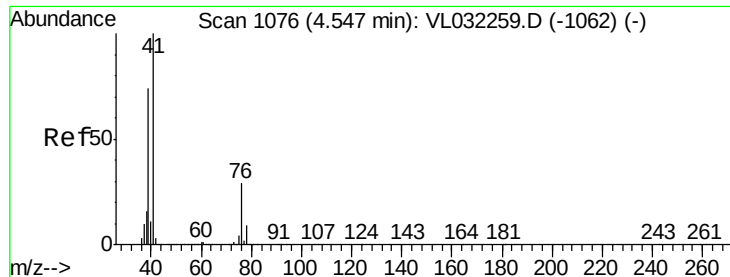


#20

Methylene Chloride
 Concen: 8.62 ppbv
 RT: 4.47 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.0	121.8	182.6
51	46.0	36.3	54.5
86	63.4	52.1	78.1





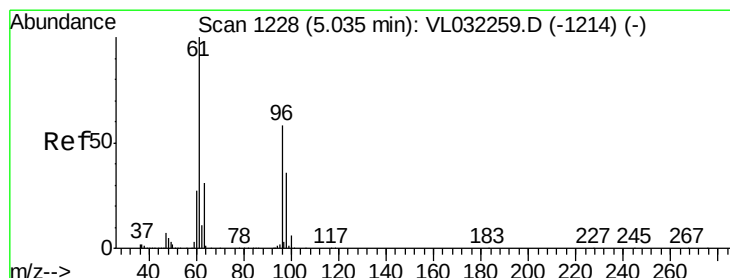
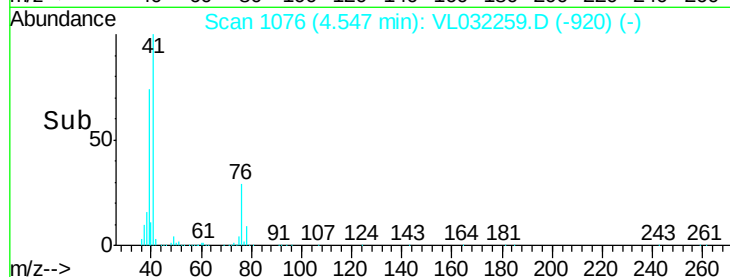
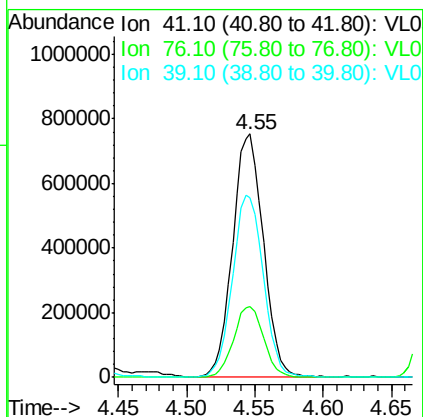
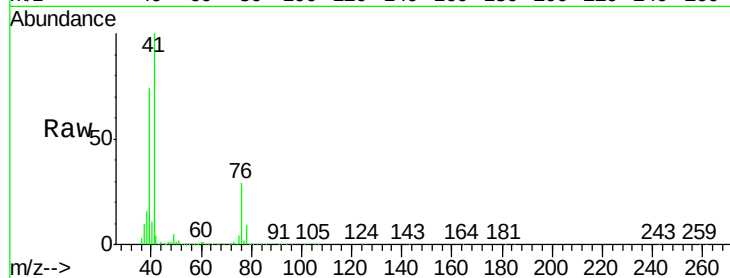
#21
Allvl Chloride
Concen: 9.84 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.8	22.9	34.3
39	75.3	62.3	93.5

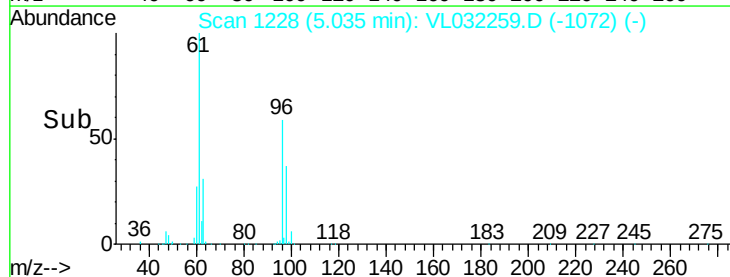
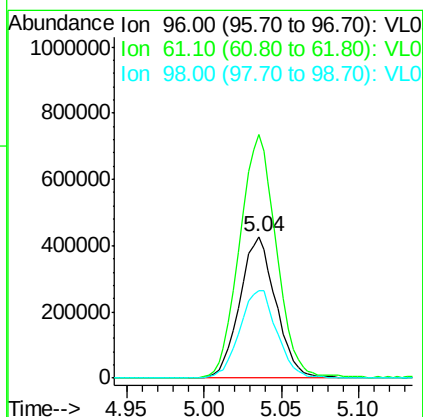
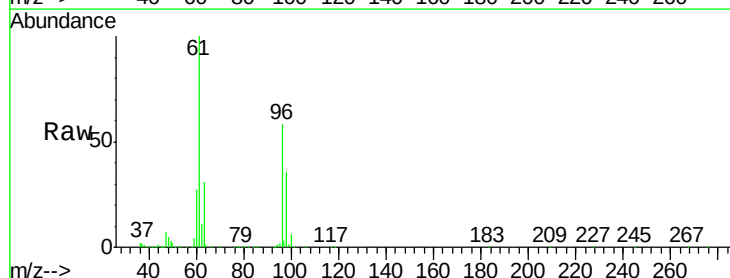
Manual Integrations
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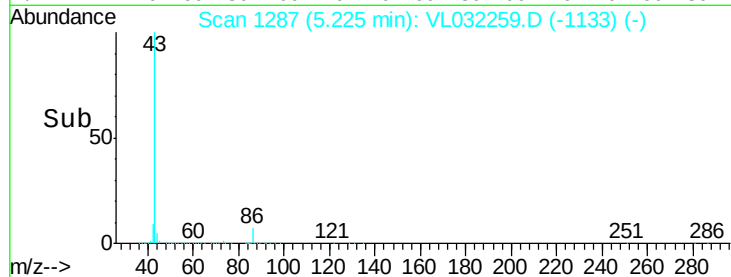
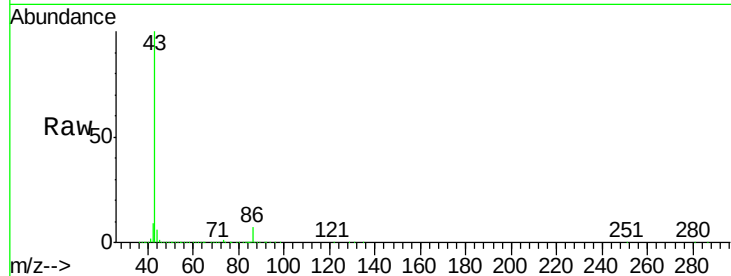
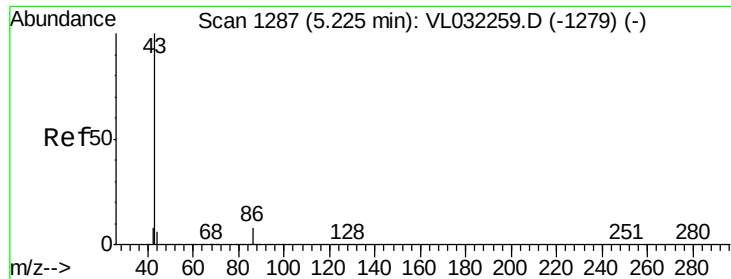
MMDadoda
7/20/2018 2:53:02 PM



#22
trans-1,2-Dichloroethene
Concen: 10.10 ppbv
RT: 5.04 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.7	139.1	208.7
98	62.0	48.4	72.6





#23

Vinyl Acetate

Concen: 9.71 ppbv

RT: 5.22 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VL032259.D

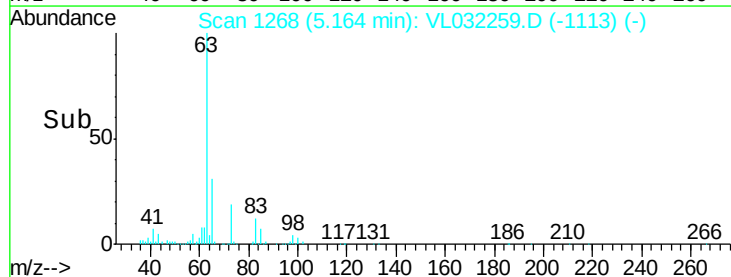
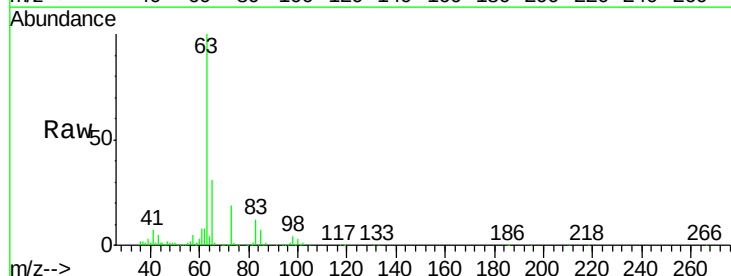
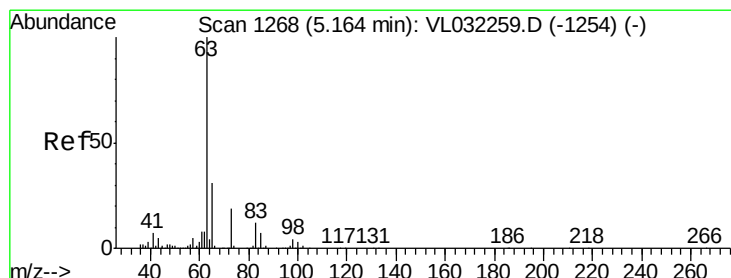
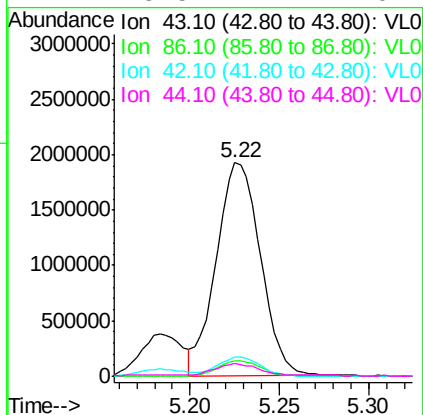
Acq: 18 Jul 2018 9:18

Tot Ion:	43	Resp:	3296781
Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.9	8.9
42	9.1	7.0	10.6
44	5.5	4.2	6.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

MMDadoda
7/20/2018 2:53:02 PM



#24

1,1-Dichloroethane

Concen: 9.37 ppbv

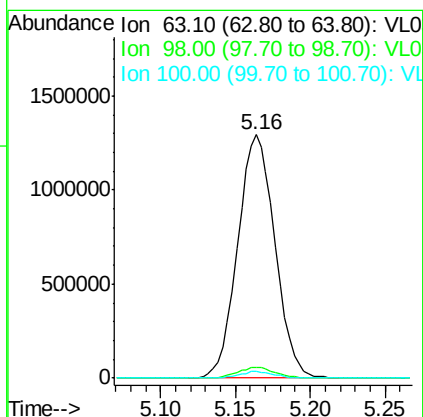
RT: 5.16 min Scan# 1268

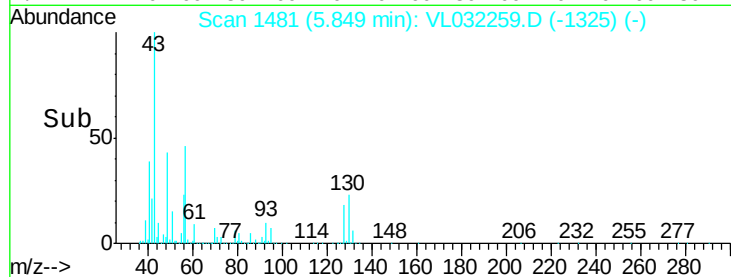
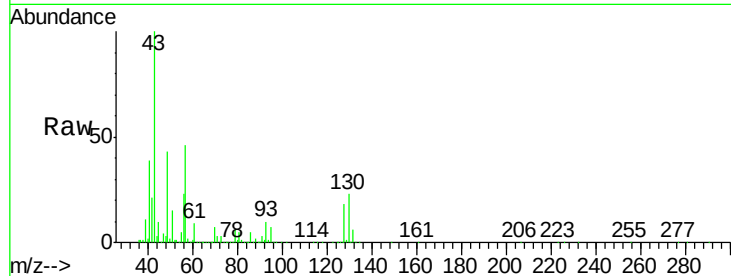
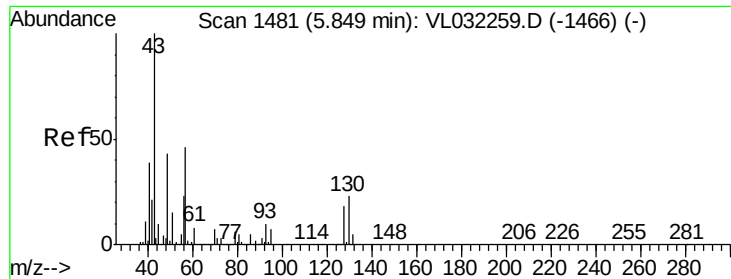
Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Tgt Ion:	63	Resp:	2233408
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.4	7.1
100	2.6	1.5	4.4





#25
Ethyl Acetate
Concen: 9.33 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

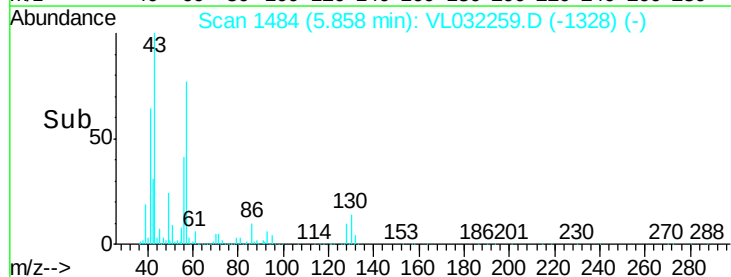
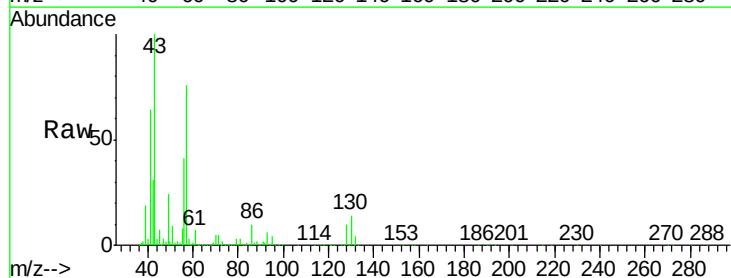
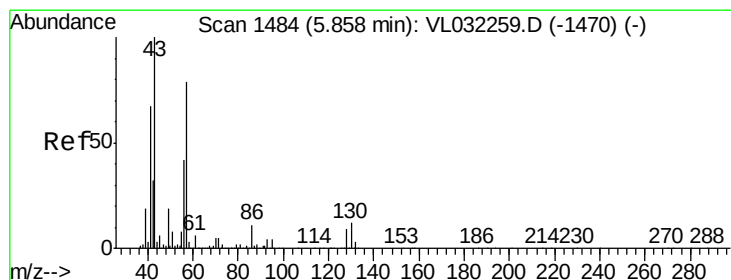
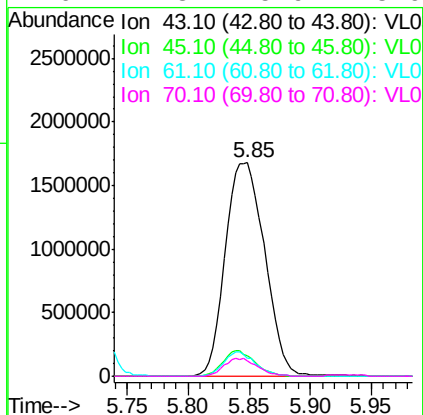
Tot Ion: 43 Resp: 3771447

Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.5	7.7	11.5
70	7.3	5.9	8.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

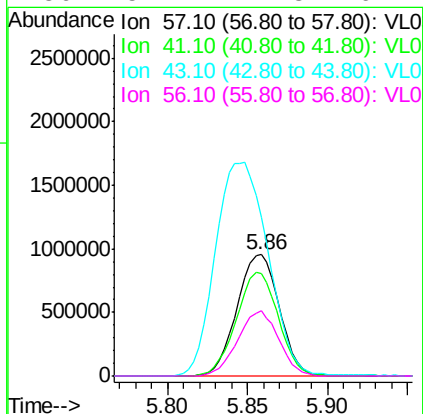
MMDadoda
7/20/2018 2:53:02 PM

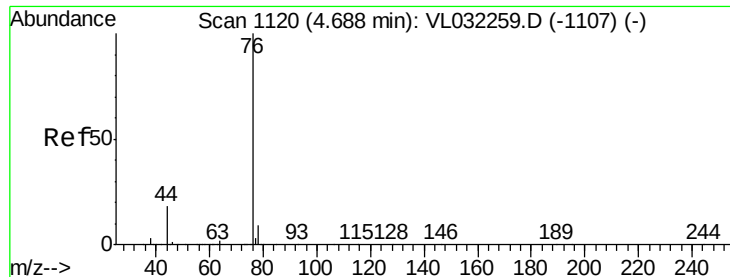


#26
Hexane
Concen: 9.32 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion: 57 Resp: 1717593

Ion	Ratio	Lower	Upper
57	100		
41	84.9	68.7	103.1
43	219.9	176.2	264.2
56	52.4	42.8	64.2





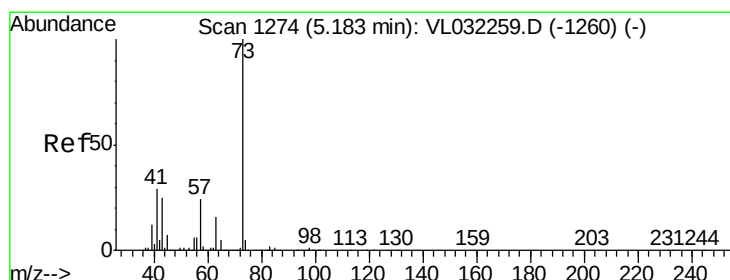
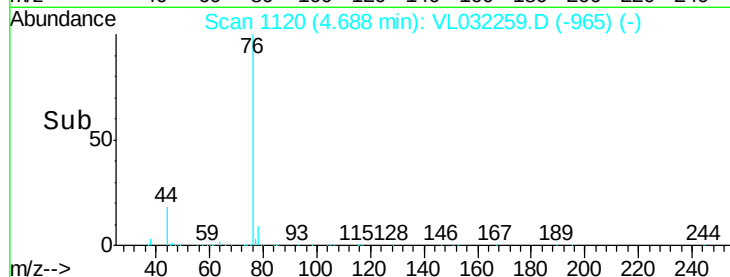
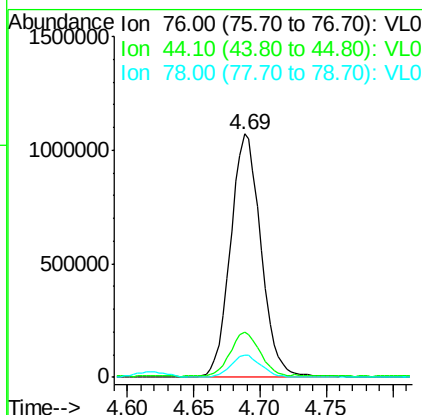
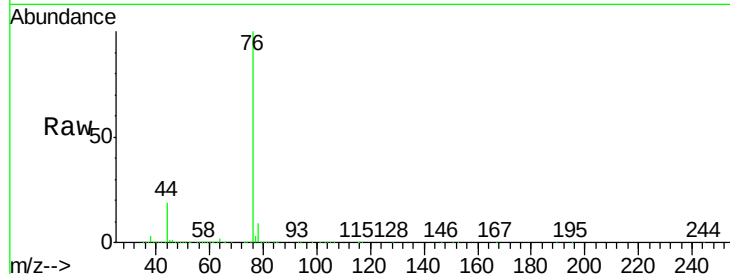
#27
Carbon Disulfide
Concen: 10.38 ppbv
RT: 4.69 min Scan# 1120
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.9	15.1	22.7
78	9.2	7.4	11.0

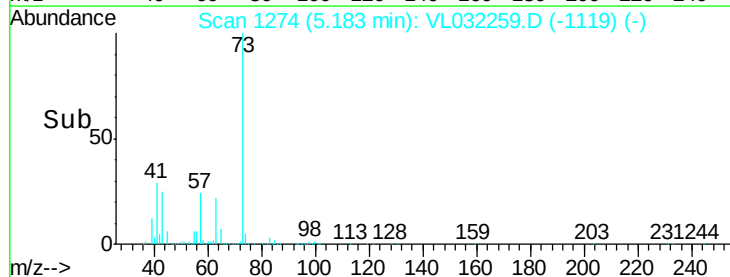
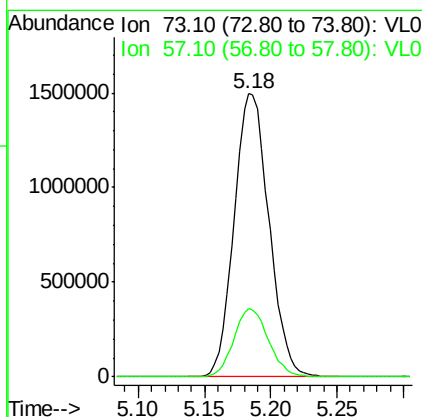
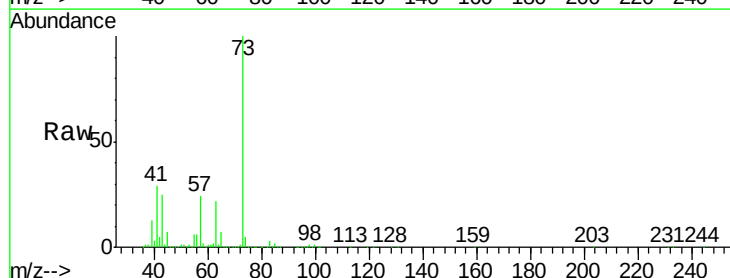
Manual Integrations
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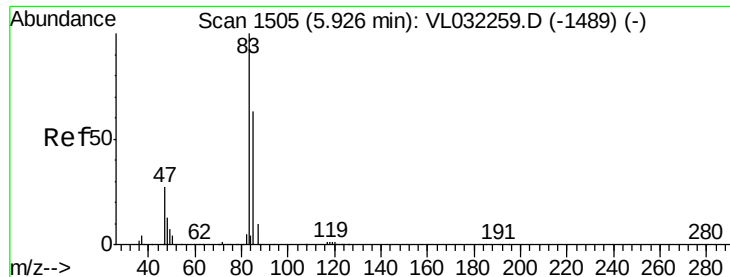
MMDadoda
7/20/2018 2:53:02 PM



#28
Methyl tert-Butyl Ether
Concen: 9.41 ppbv
RT: 5.18 min Scan# 1274
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.1	18.6	27.8





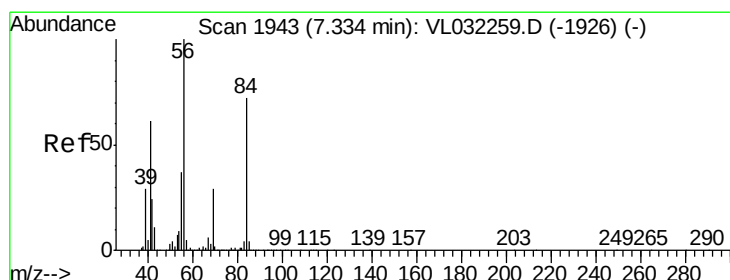
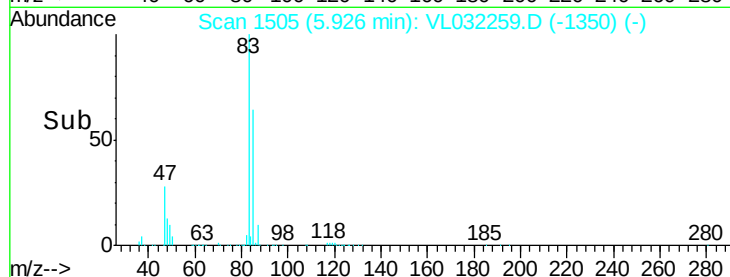
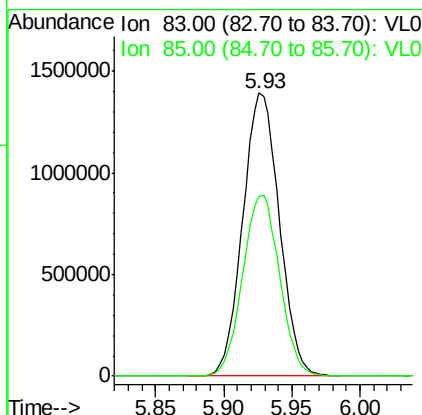
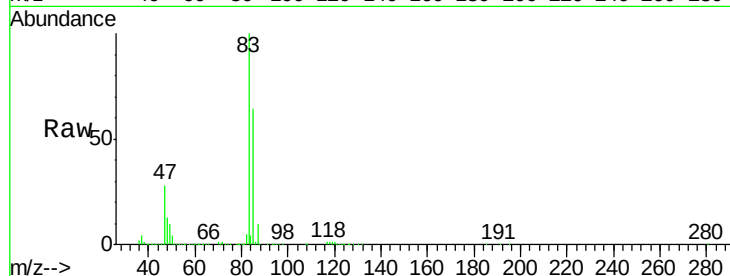
#29
Chloroform
Concen: 9.12 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 2595098
Ion Ratio Lower Upper
83 100
85 63.4 52.7 79.1

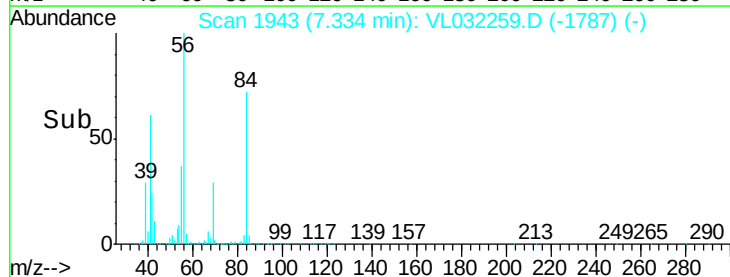
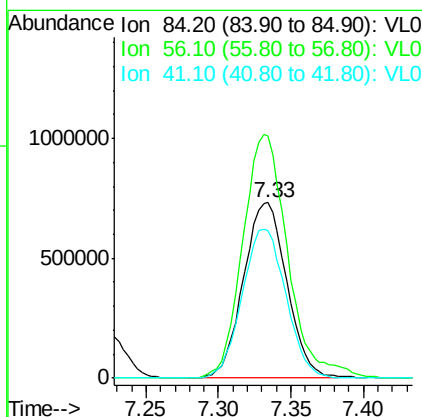
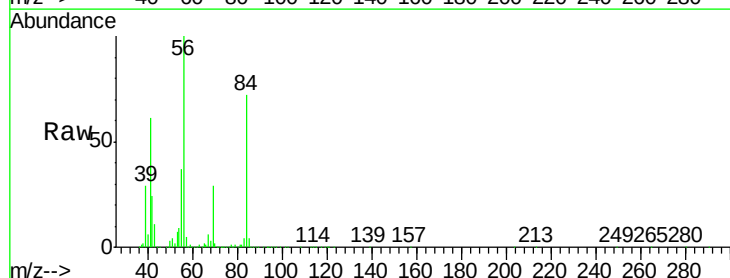
Manual Integrations
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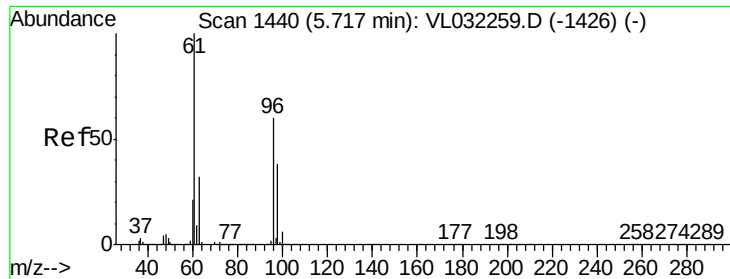
MMDadoda
7/20/2018 2:53:02 PM



#30
Cyclohexane
Concen: 9.36 ppbv
RT: 7.33 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion: 84 Resp: 1522038
Ion Ratio Lower Upper
84 100
56 144.5 112.6 168.8
41 85.9 67.0 100.6





#31

cis-1,2-Dichloroethene

Concen: 9.41 ppbv

RT: 5.72 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

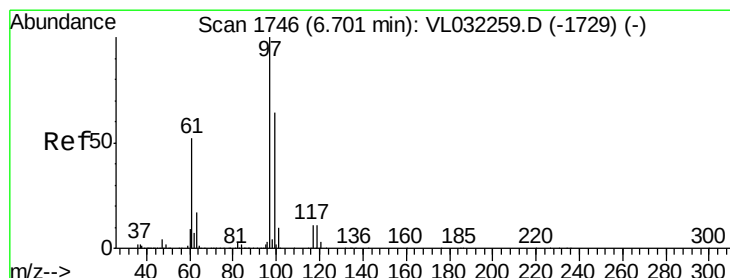
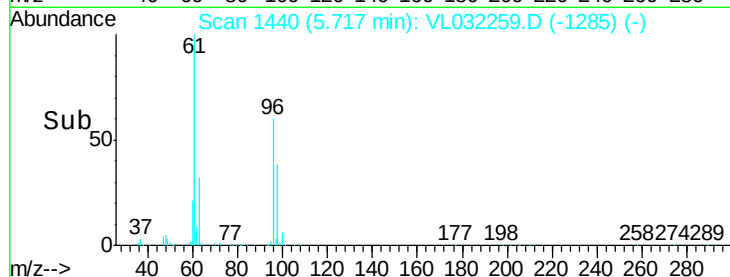
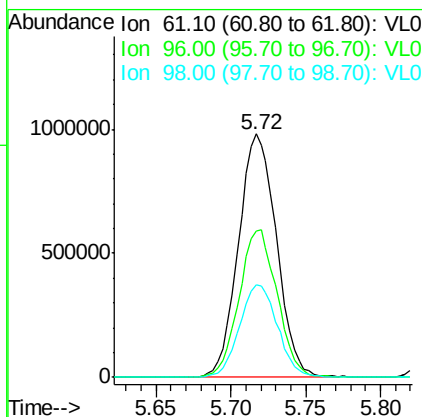
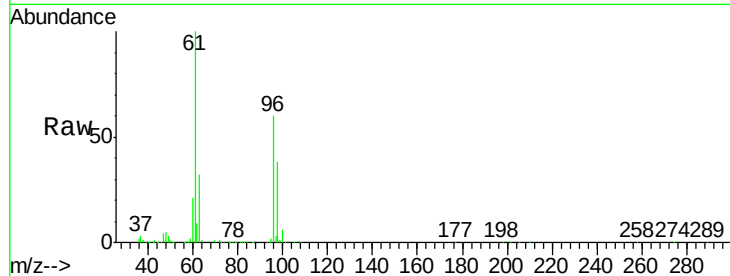
ClientSampleId :

VSTDICCC010

Tot Ion:	61	Resp:	1730850
Ion	Ratio	Lower	Upper
61	100		
96	59.9	49.8	74.8
98	38.1	31.4	47.2

Manual Integrations
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MMDadoda
7/20/2018 2:53:02 PM



#32

1,1,1-Trichloroethane

Concen: 9.38 ppbv

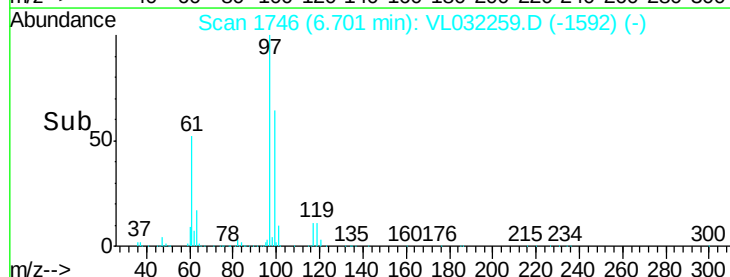
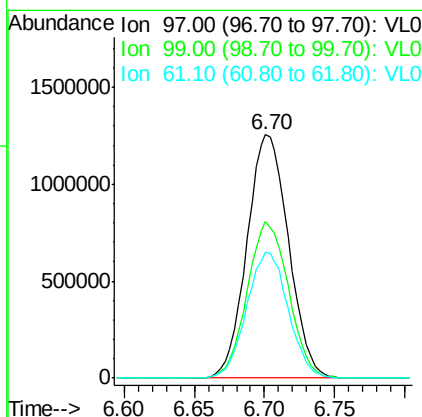
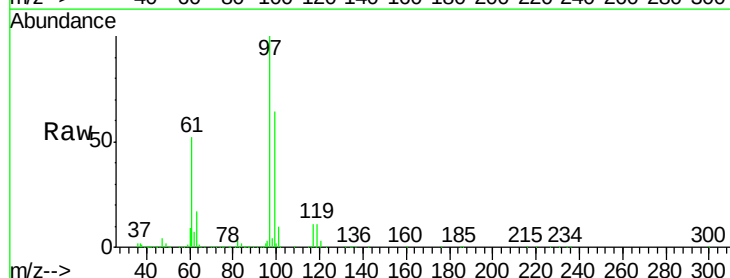
RT: 6.70 min Scan# 1746

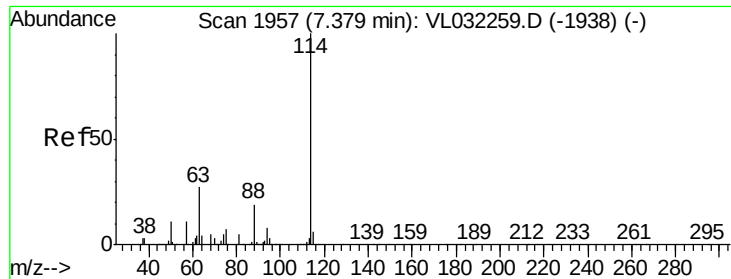
Delta R.T. -0.01 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Tgt Ion:	97	Resp:	2589157
Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.2	76.8
61	51.5	41.3	61.9





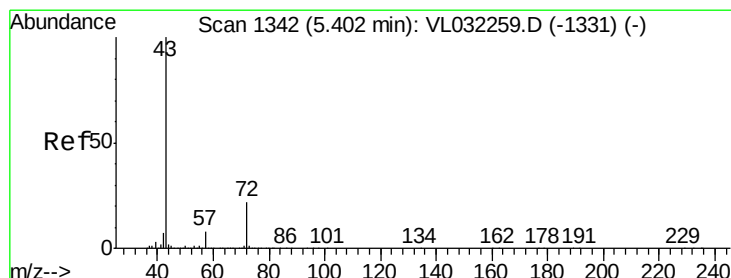
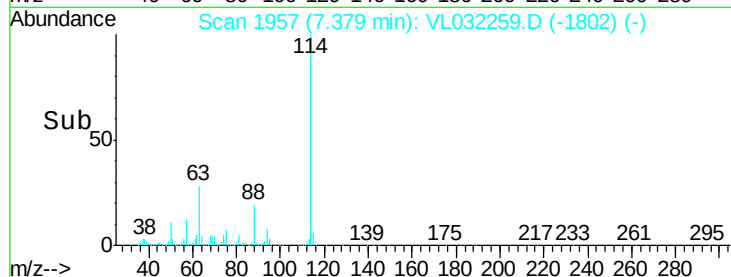
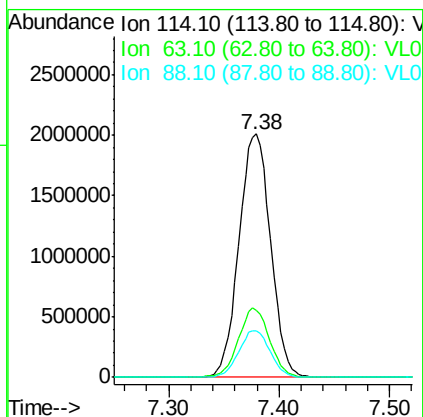
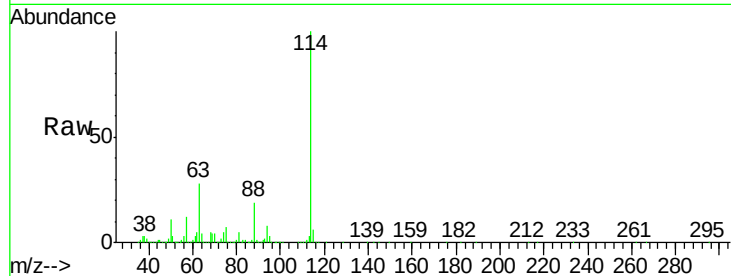
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:114 Resp: 3988789
 Ion Ratio Lower Upper
 114 100
 63 28.2 22.5 33.7
 88 19.0 15.4 23.0

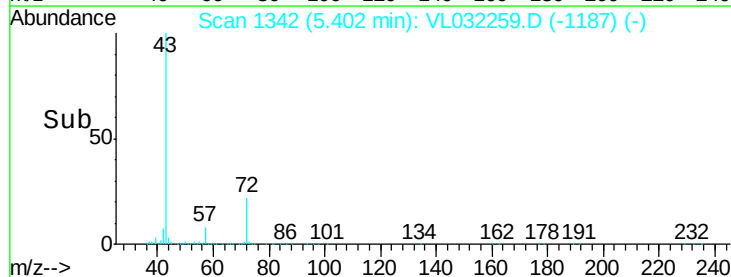
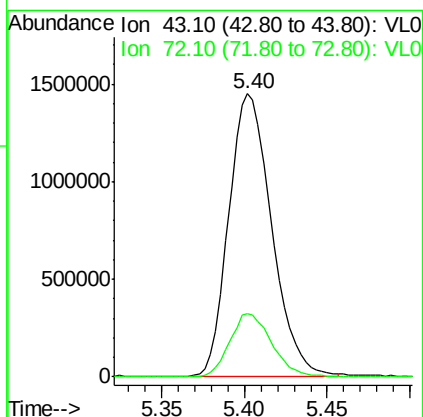
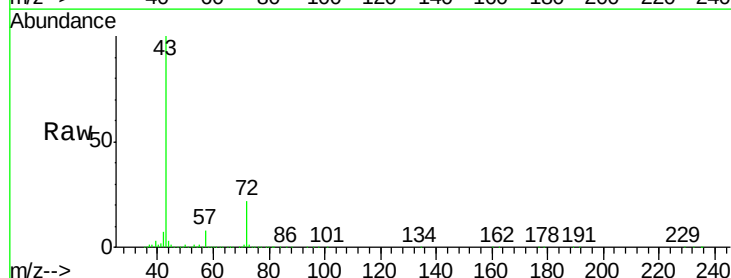
Manual Integrations
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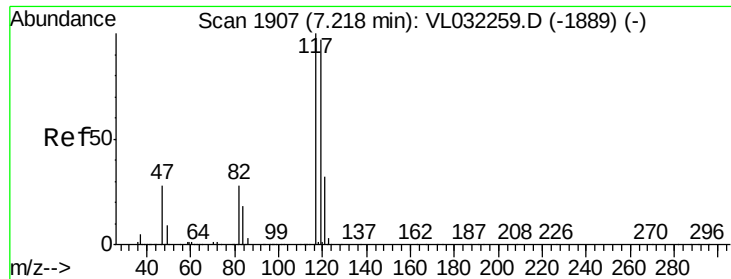
MMDadoda
 7/20/2018 2:53:02 PM



#34
 2-Butanone
 Concen: 9.57 ppbv
 RT: 5.40 min Scan# 1342
 Delta R.T. -0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion: 43 Resp: 2600940
 Ion Ratio Lower Upper
 43 100
 72 22.1 18.1 27.1





#35

Carbon Tetrachloride

Concen: 9.53 ppbv

RT: 7.22 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2572586

Ion Ratio Lower Upper

117 100

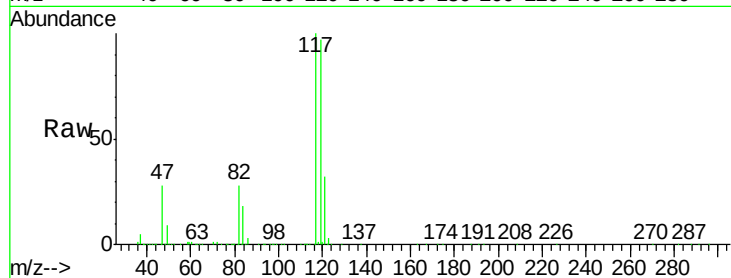
119 96.7 75.7 113.5

121 31.8 24.6 37.0

Manual Integrations
APPROVED

MMDadoda

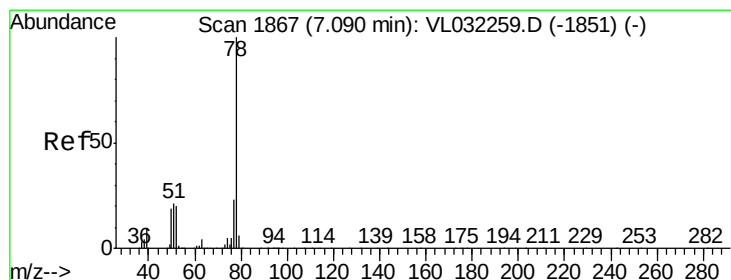
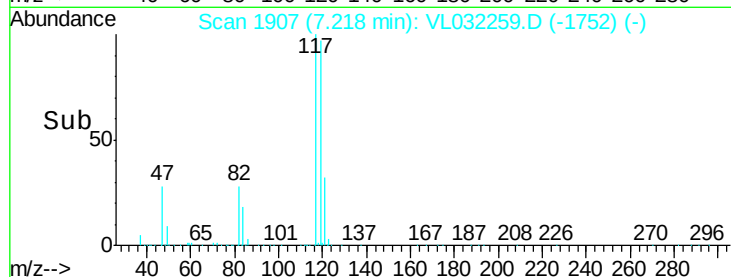
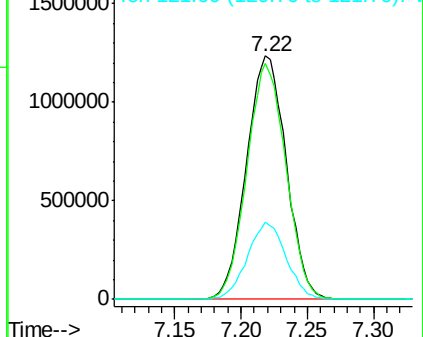
7/20/2018 2:53:02 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.32 ppbv

RT: 7.09 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

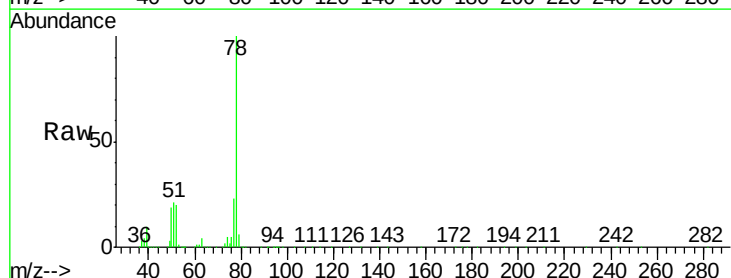
Tgt Ion: 78 Resp: 3693090

Ion Ratio Lower Upper

78 100

77 23.2 18.0 27.0

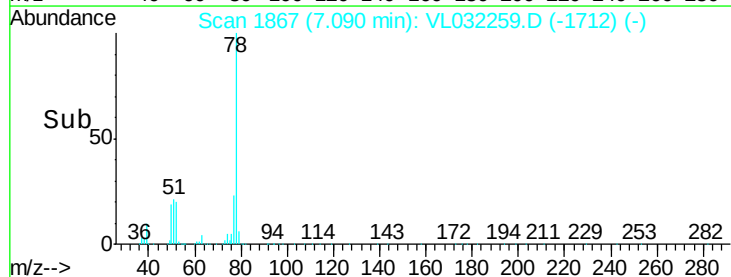
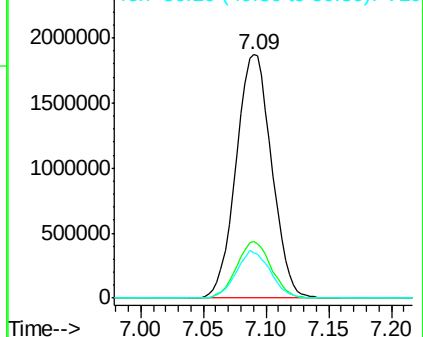
50 18.8 15.8 23.8

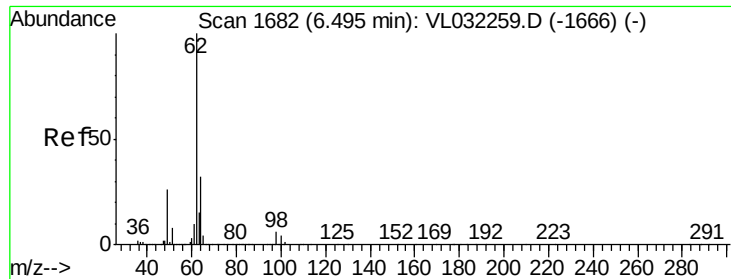


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





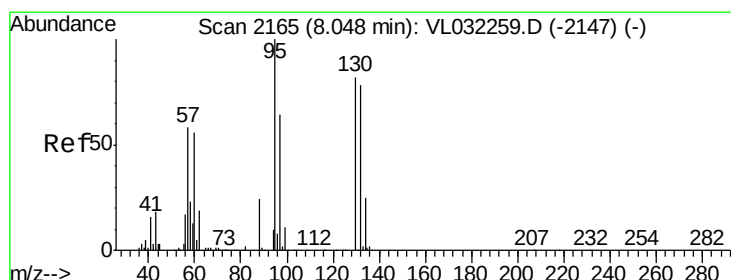
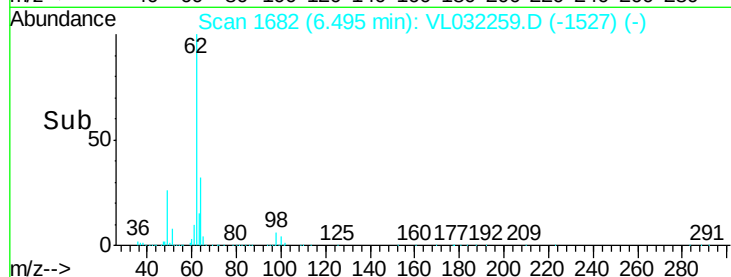
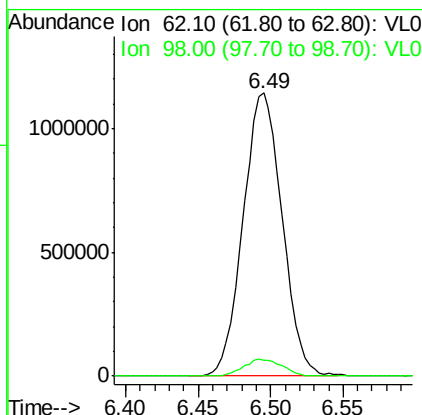
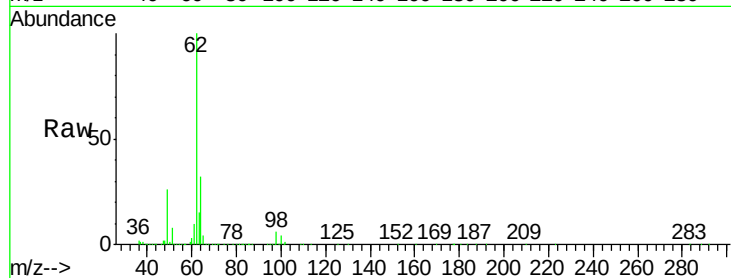
#37
1,2-Dichloroethane
Concen: 9.88 ppbv
RT: 6.49 min Scan# 1682
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.6	7.0

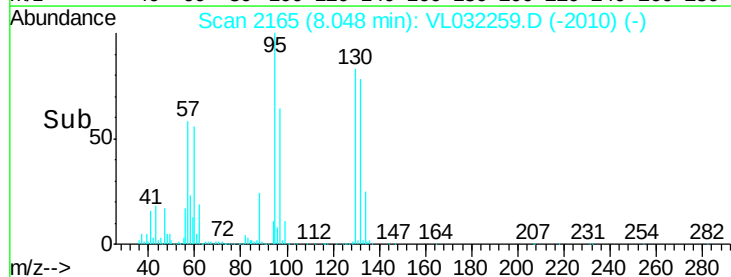
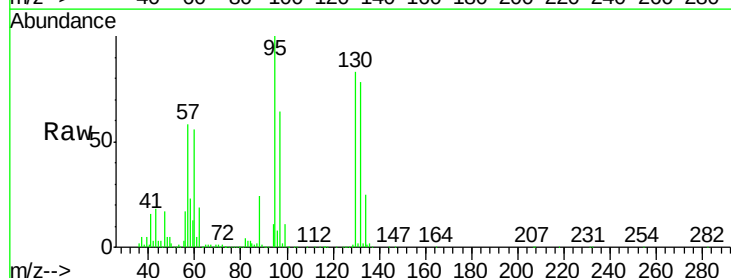
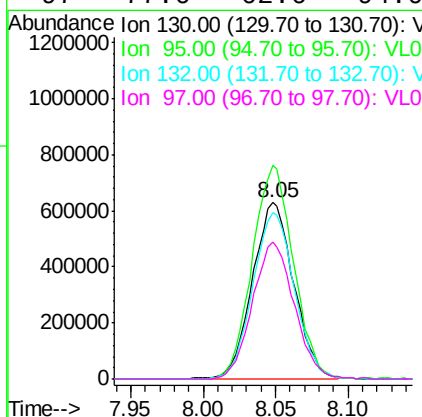
Manual Integrations
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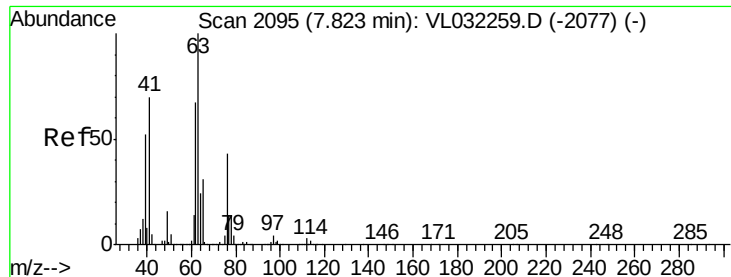
MMDadoda
7/20/2018 2:53:02 PM



#38
Trichloroethene
Concen: 9.12 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	121.4	98.3	147.5
132	94.5	78.1	117.1
97	77.6	62.6	94.0





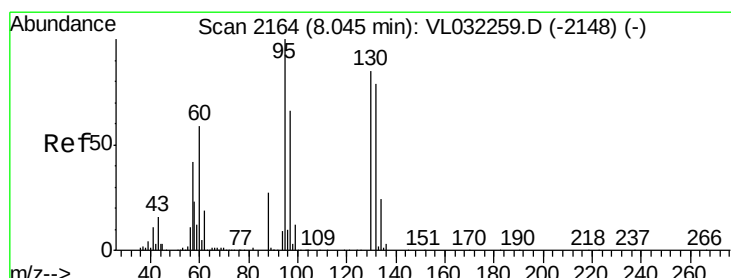
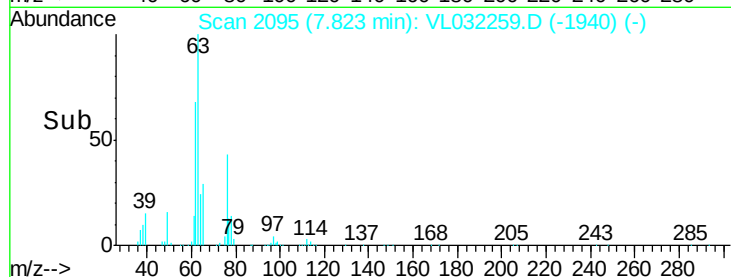
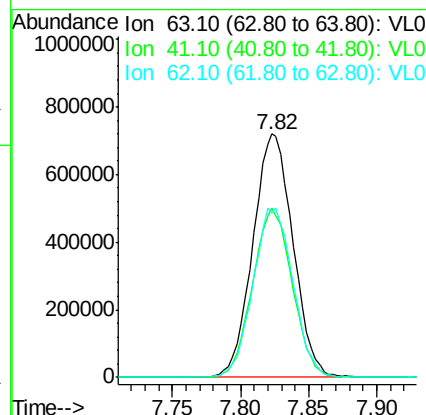
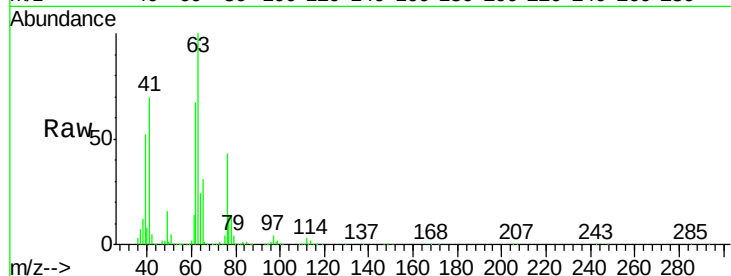
#39
 1,2-Dichloropropane
 Concen: 9.31 ppbv
 RT: 7.82 min Scan# 2095
 Delta R.T. -0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.7	53.8	80.6
62	67.3	53.1	79.7

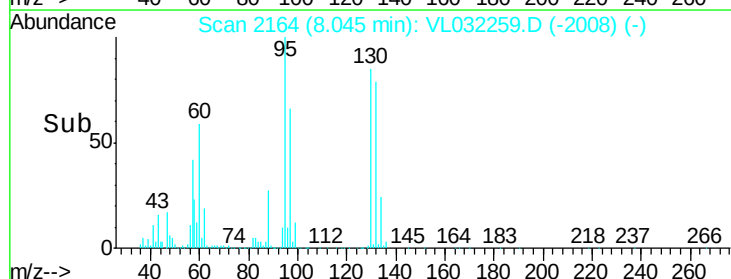
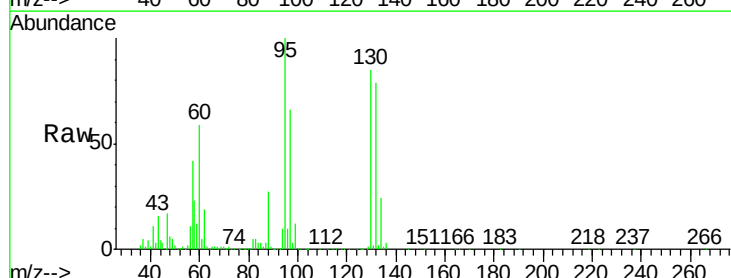
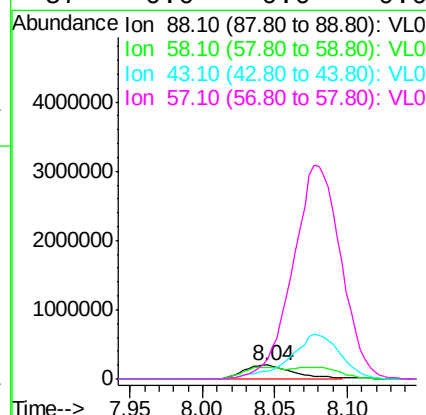
Manual Integrations
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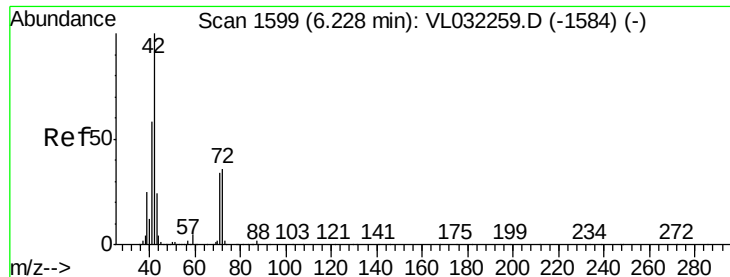
MMDadoda
 7/20/2018 2:53:02 PM



#40
 1,4-Dioxane
 Concen: 8.83 ppbv
 RT: 8.04 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
88	100		
58	76.1	117.4	176.2#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





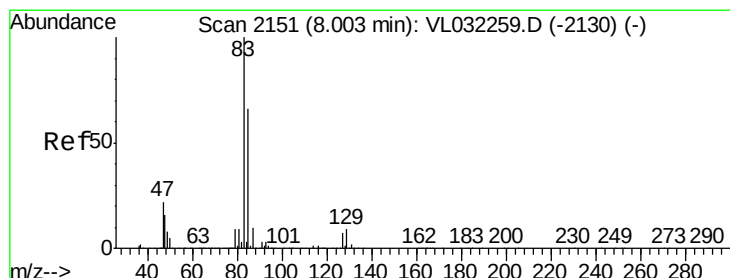
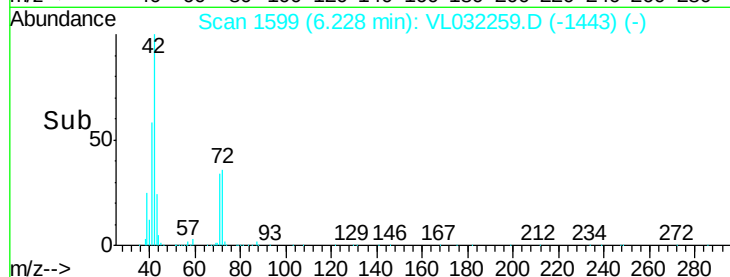
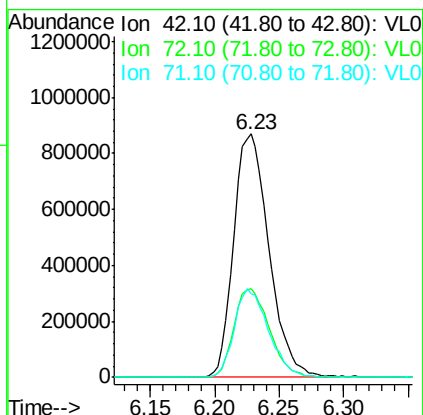
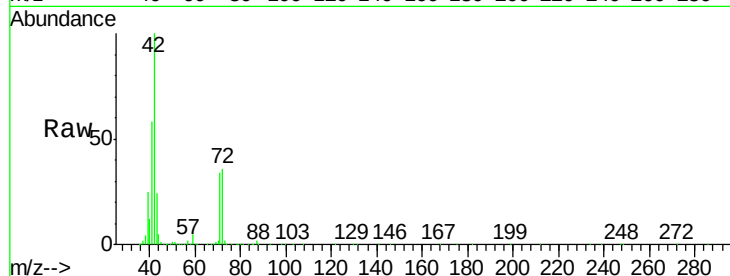
#41
Tetrahydrofuran
Concen: 10.89 ppbv
RT: 6.23 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.7	30.6	45.8
71	35.3	29.7	44.5

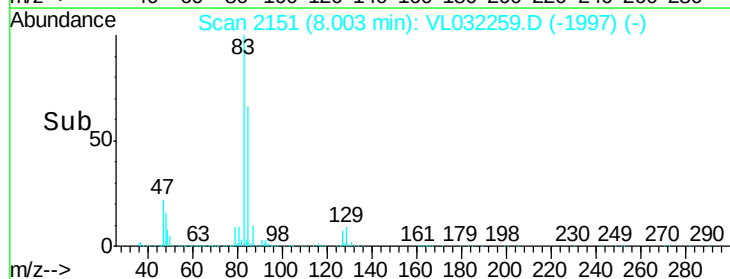
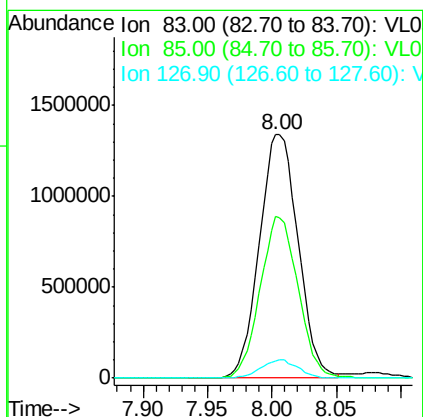
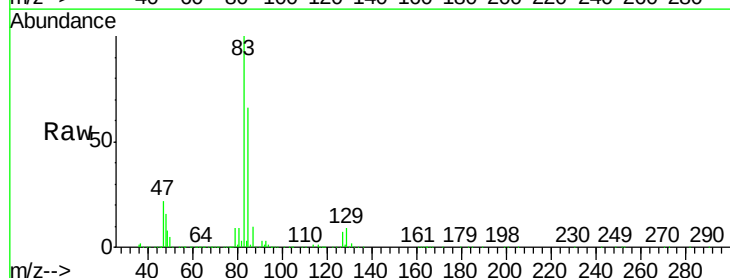
Manual Integrations
APPROVED

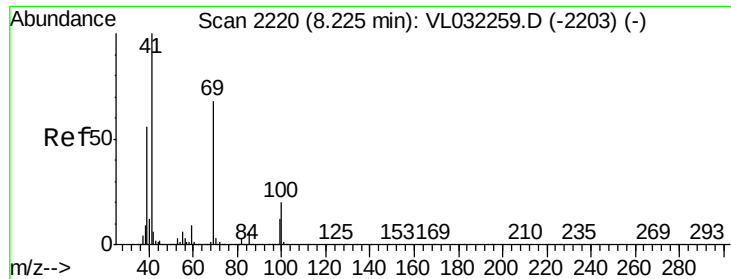
MMDadoda
7/20/2018 2:53:02 PM



#42
Bromodichloromethane
Concen: 9.08 ppbv
RT: 8.00 min Scan# 2151
Delta R.T. -0.01 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.6	76.0
127	7.1	6.1	9.1





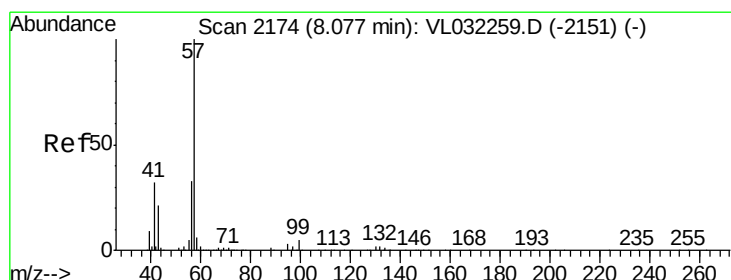
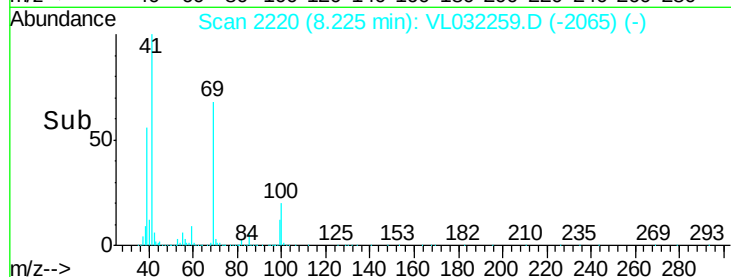
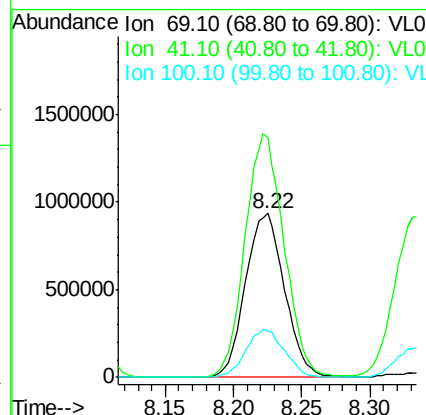
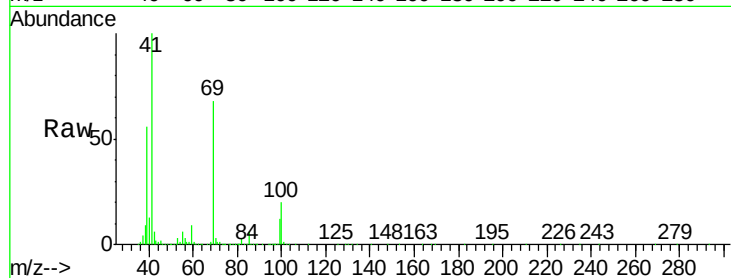
#43
Methyl Methacrylate
Concen: 12.15 ppbv
RT: 8.22 min Scan# 2220
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 69 Resp: 1861188
Ion Ratio Lower Upper
69 100
41 148.2 116.3 174.5
100 29.1 23.8 35.8

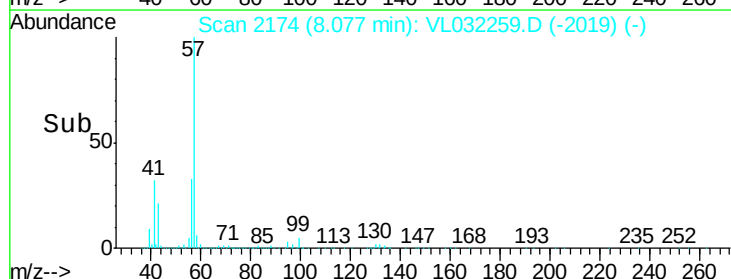
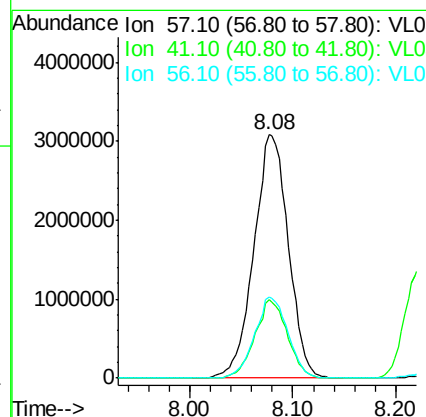
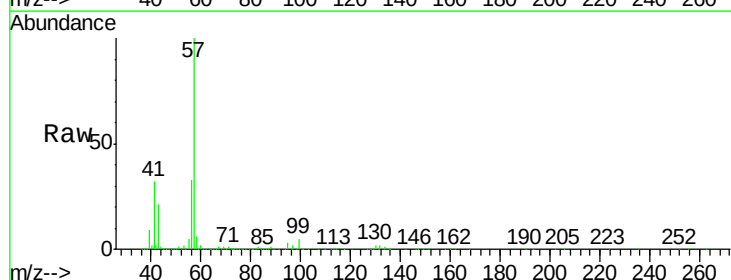
Manual Integrations
APPROVED

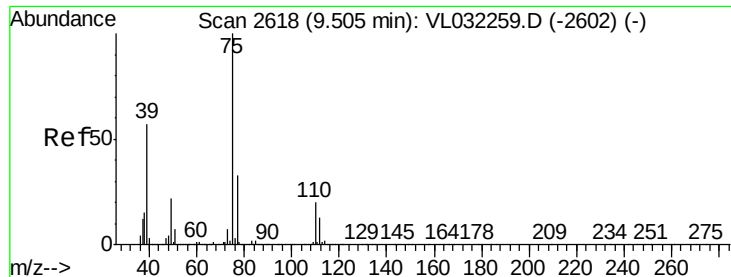
MMDadoda
7/20/2018 2:53:02 PM



#44
2,2,4-Trimethylpentane
Concen: 10.45 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion: 57 Resp: 7127183
Ion Ratio Lower Upper
57 100
41 30.5 24.7 37.1
56 32.1 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 11.18 ppbv

RT: 9.50 min Scan# 2618

Delta R.T. -0.01 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 2040116

Ion Ratio Lower Upper

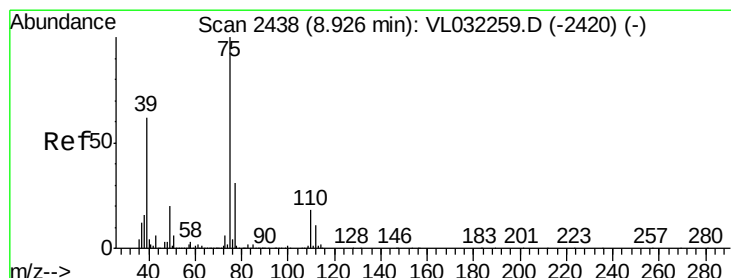
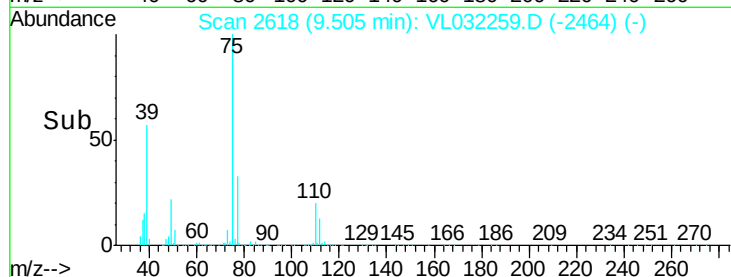
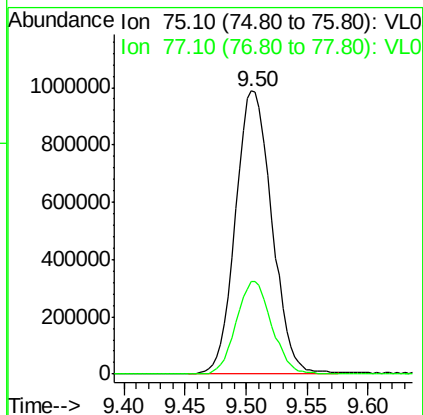
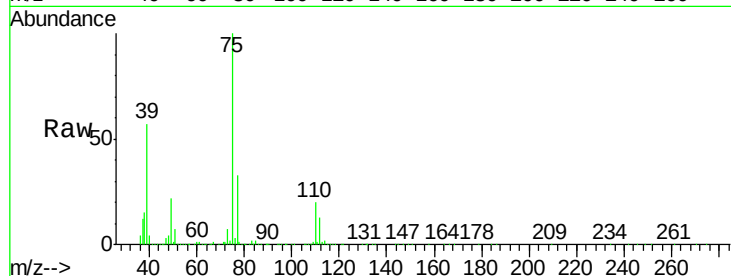
75 100

77 32.8 25.5 38.3

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#46

cis-1,3-Dichloropropene

Concen: 10.95 ppbv

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

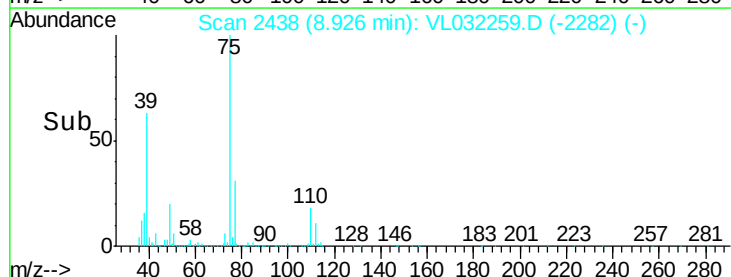
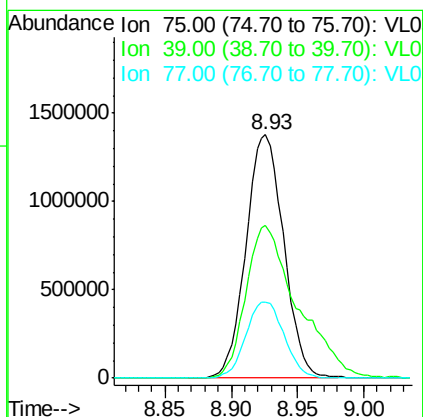
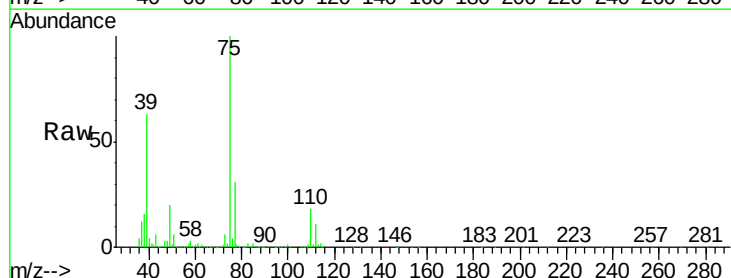
Tgt Ion: 75 Resp: 2724718

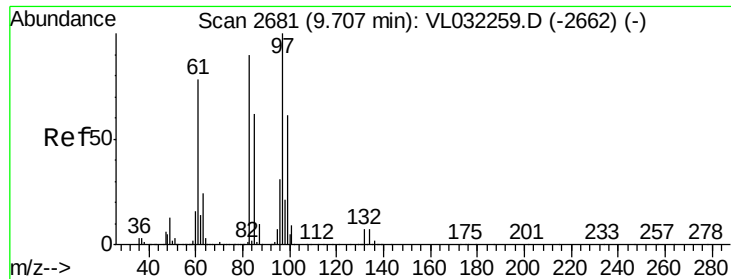
Ion Ratio Lower Upper

75 100

39 62.4 50.9 76.3

77 31.2 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 9.49 ppbv

RT: 9.71 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 97 Resp: 1669541

Ion Ratio Lower Upper

97 100

83 90.4 72.9 109.3

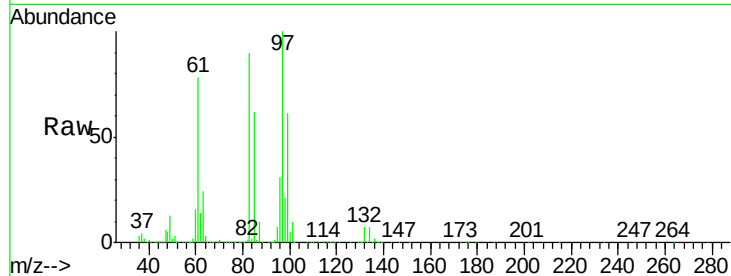
85 61.9 49.3 73.9

99 61.1 51.3 76.9

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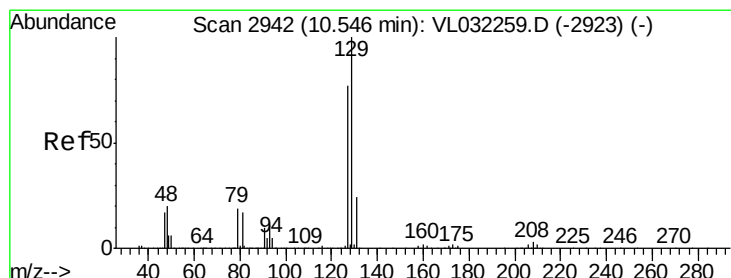
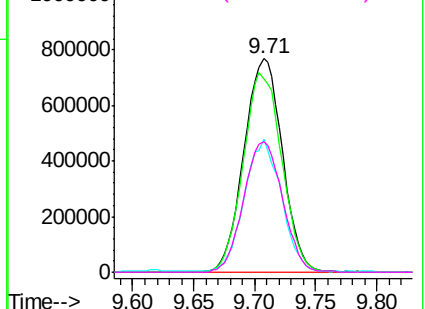
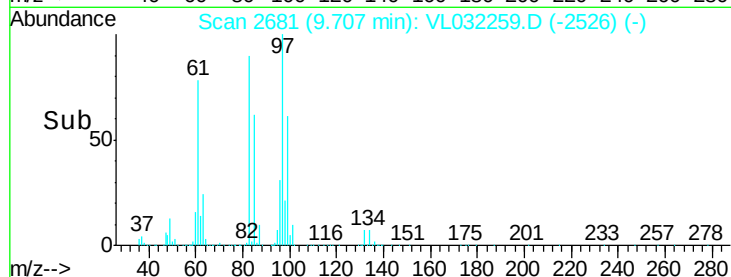


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.50 ppbv

RT: 10.55 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VL032259.D

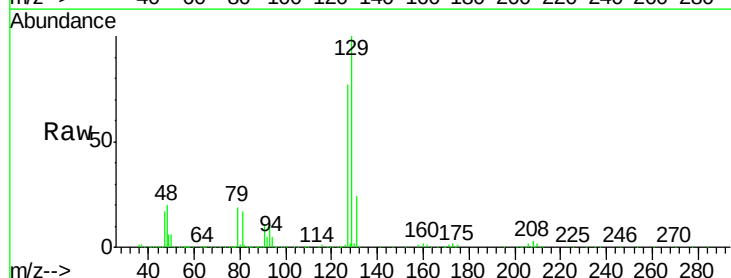
Acq: 18 Jul 2018 9:18

Tgt Ion: 129 Resp: 2486817

Ion Ratio Lower Upper

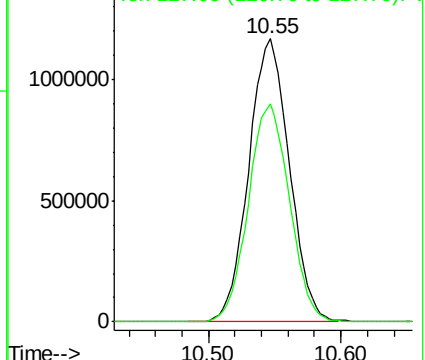
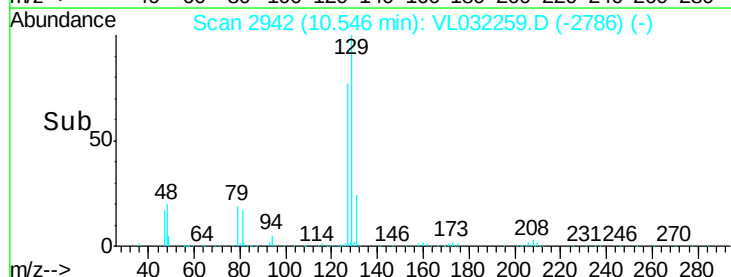
129 100

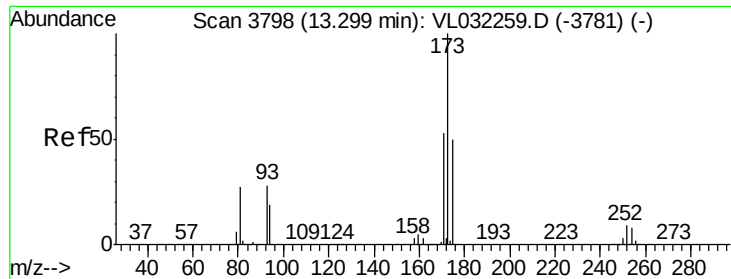
127 78.2 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





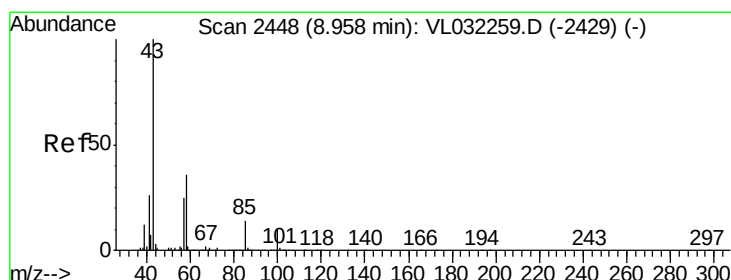
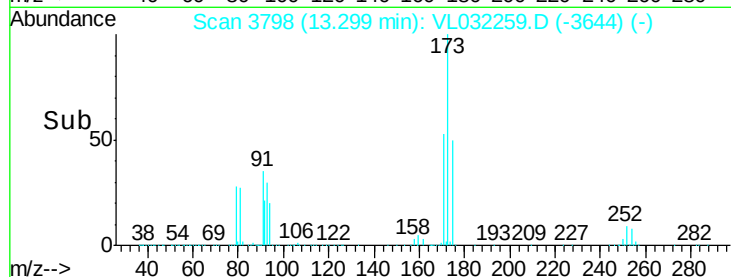
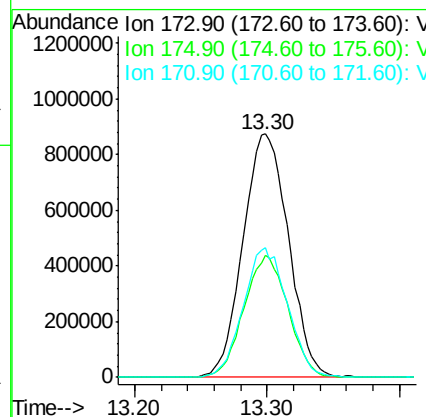
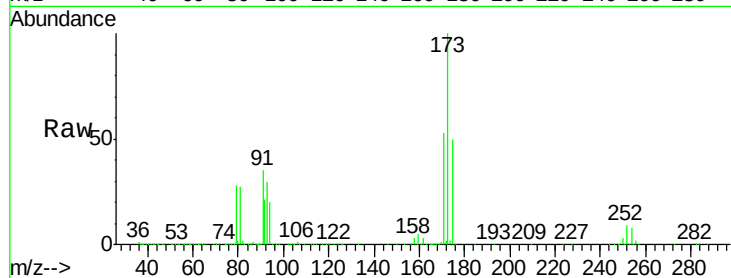
#49
Bromoform
Concen: 9.91 ppbv
RT: 13.30 min Scan# 3798
Delta R.T. -0.01 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:173 Resp: 2080241
Ion Ratio Lower Upper
173 100
175 48.8 39.4 59.2
171 52.0 41.8 62.6

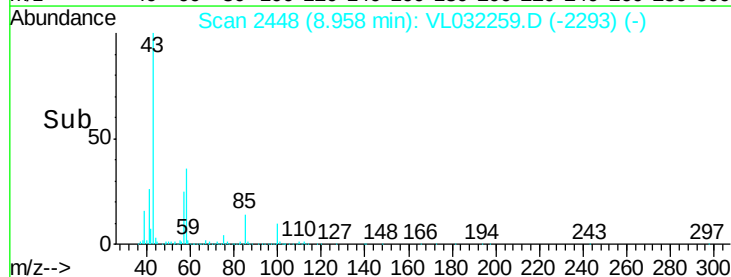
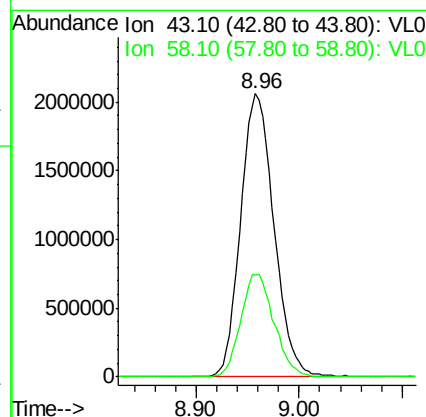
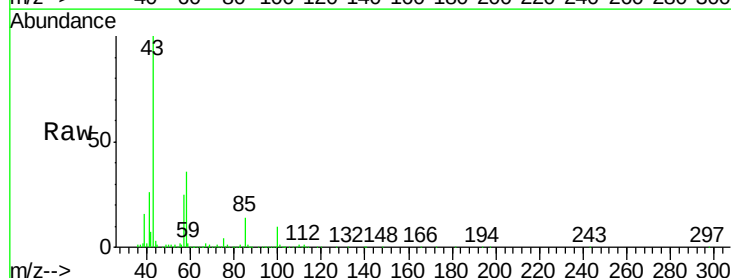
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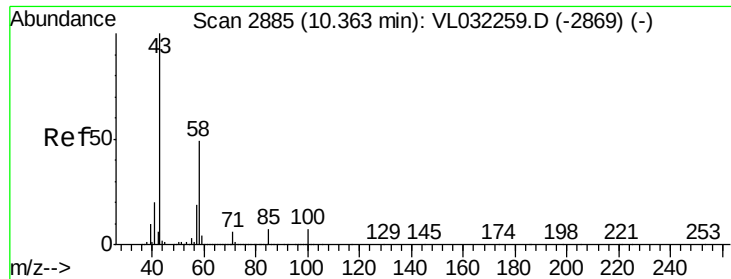
MMDadoda
7/20/2018 2:53:02 PM



#50
4-Methyl-2-Pentanone
Concen: 9.83 ppbv
RT: 8.96 min Scan# 2448
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion: 43 Resp: 4623638
Ion Ratio Lower Upper
43 100
58 36.5 29.5 44.3





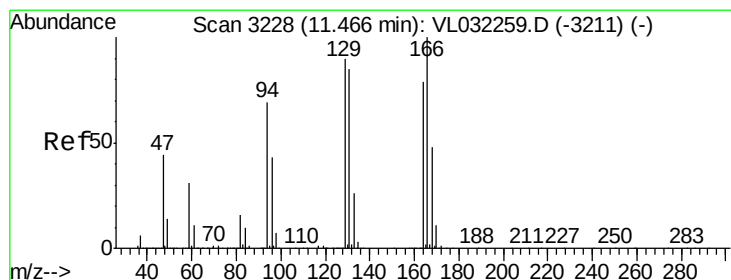
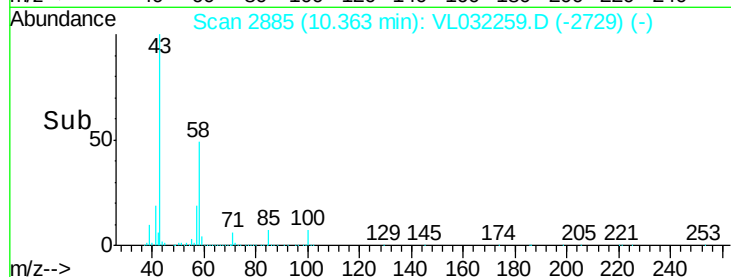
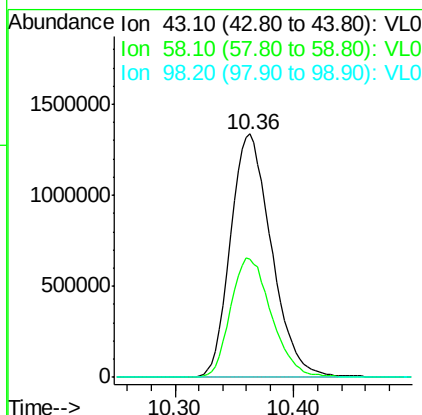
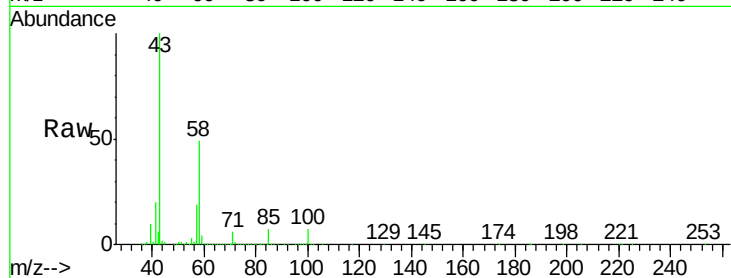
#51
2-Hexanone
Concen: 8.10 ppbv
RT: 10.36 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 3179539
Ion Ratio Lower Upper
43 100
58 49.3 39.9 59.9
98 0.2 0.2 0.4#

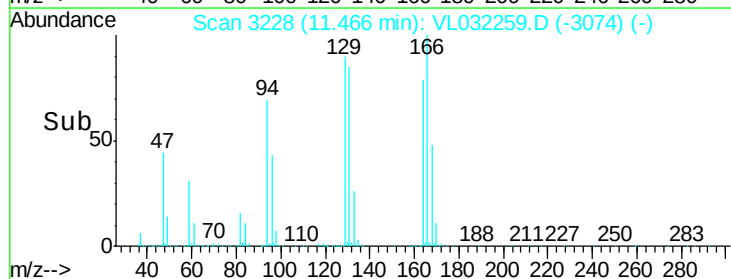
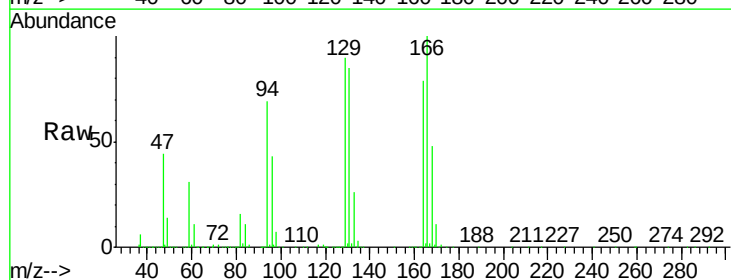
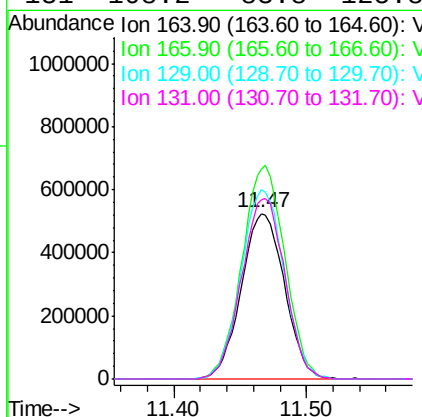
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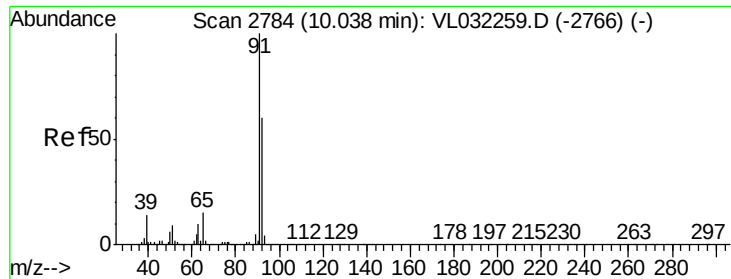
MMDadoda
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#52
Tetrachloroethene
Concen: 8.10 ppbv
RT: 11.47 min Scan# 3228
Delta R.T. -0.01 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion: 164 Resp: 1187001
Ion Ratio Lower Upper
164 100
166 127.1 99.3 148.9
129 114.4 92.0 138.0
131 108.2 83.8 125.8





#53

Toluene

Concen: 10.12 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.01 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4742004

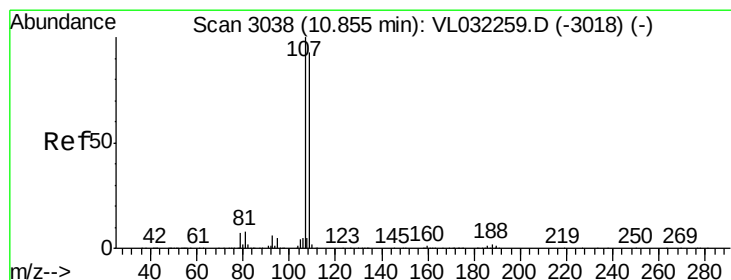
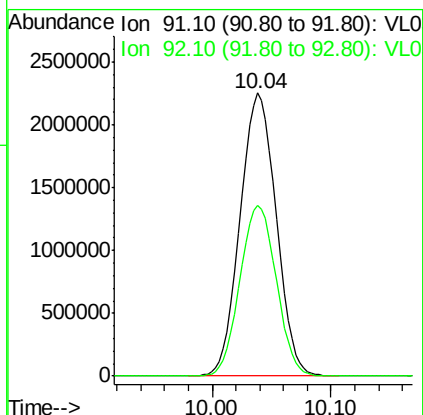
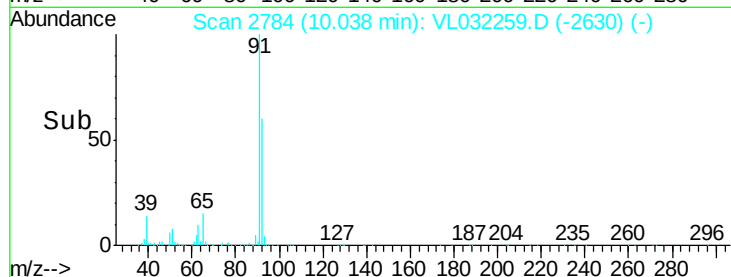
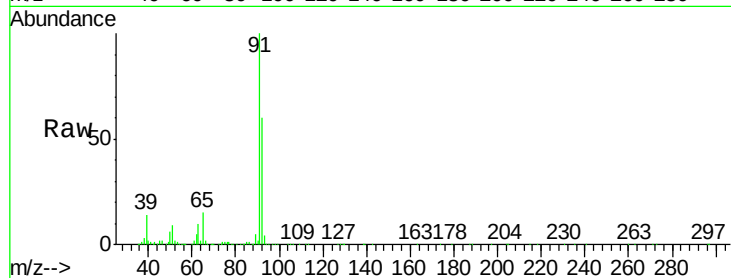
Ion Ratio Lower Upper

91 100

92 60.7 49.0 73.4

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#54

1,2-Dibromoethane

Concen: 9.28 ppbv

RT: 10.85 min Scan# 3038

Delta R.T. -0.00 min

Lab File: VL032259.D

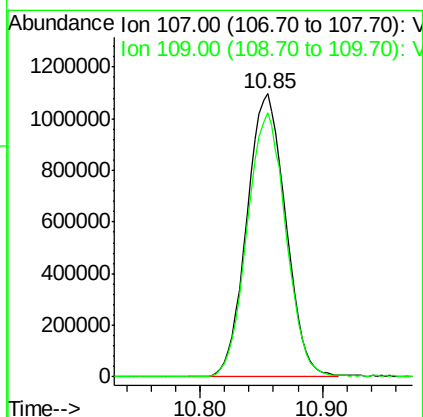
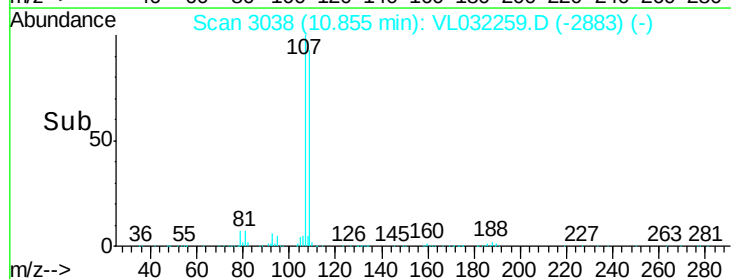
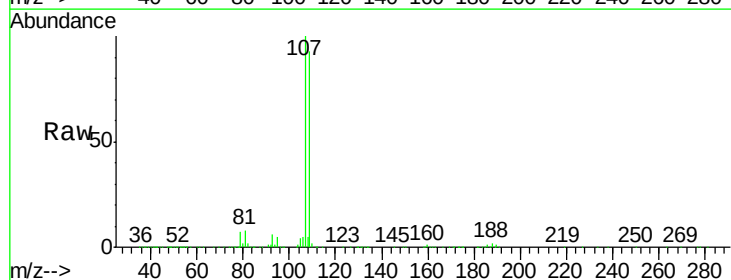
Acq: 18 Jul 2018 9:18

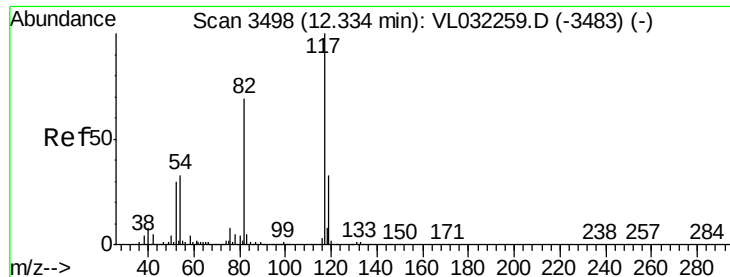
Tgt Ion: 107 Resp: 2411502

Ion Ratio Lower Upper

107 100

109 93.5 74.3 111.5





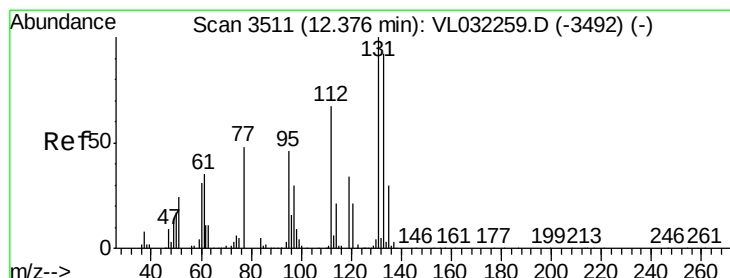
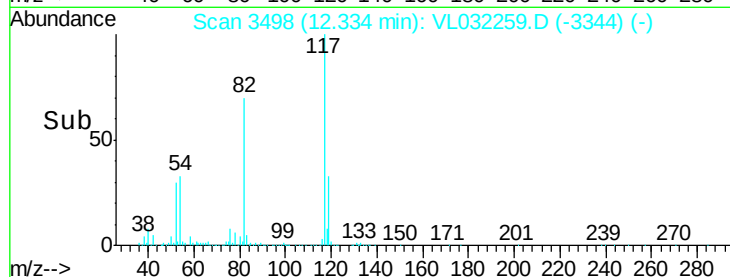
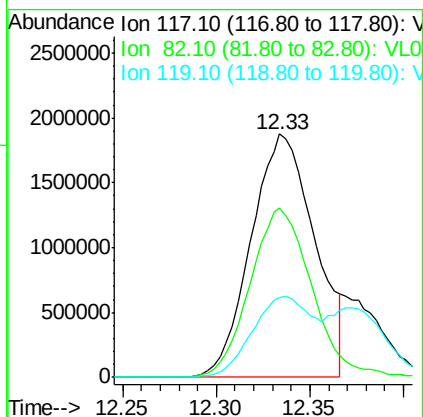
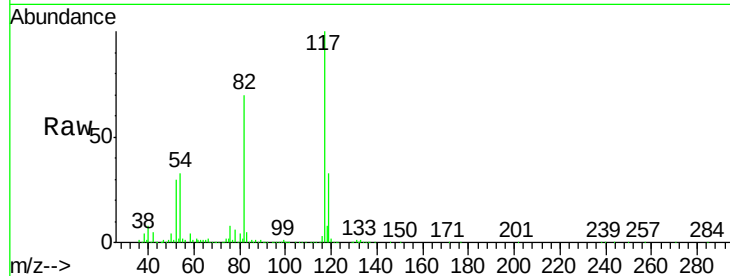
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.33 min Scan# 3498
Delta R.T. -0.01 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 4462243
Ion Ratio Lower Upper
117 100
82 67.4 53.2 79.8
119 31.9 43.9 65.9#

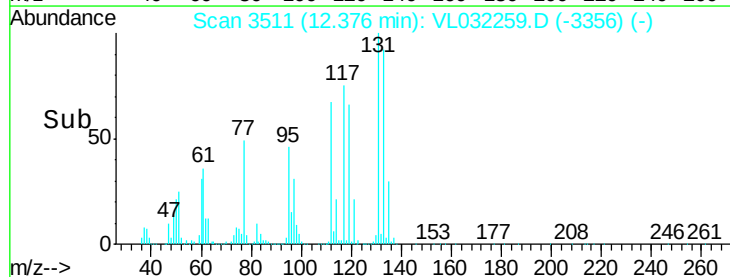
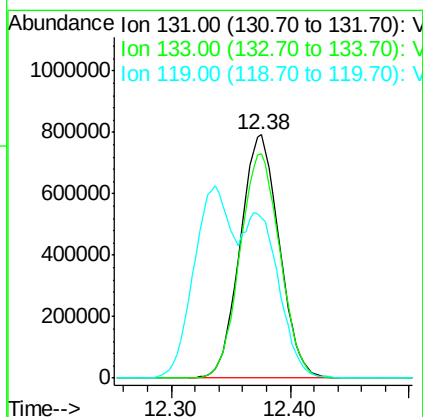
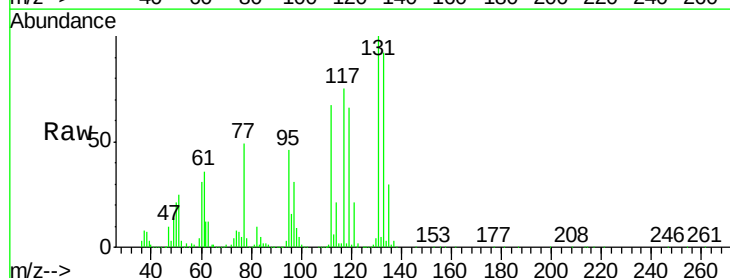
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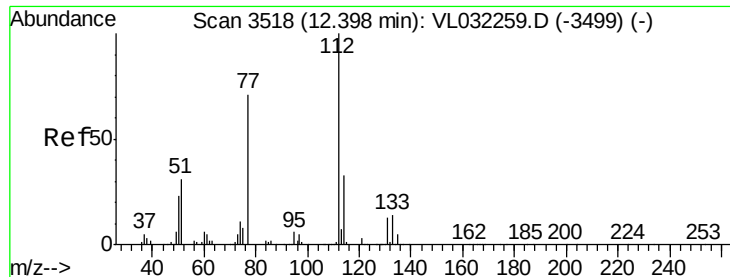
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.30 ppbv
RT: 12.38 min Scan# 3511
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion:131 Resp: 1802476
Ion Ratio Lower Upper
131 100
133 94.2 75.2 112.8
119 61.8 113.9 170.9#





#57

Chlorobenzene

Concen: 8.62 ppbv

RT: 12.40 min Scan# 3518

Delta R.T. 0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 3252662

Ion Ratio Lower Upper

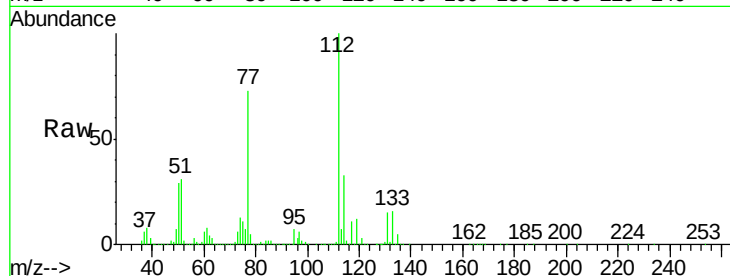
112 100

77 72.8 58.8 88.2

114 32.8 27.9 34.1

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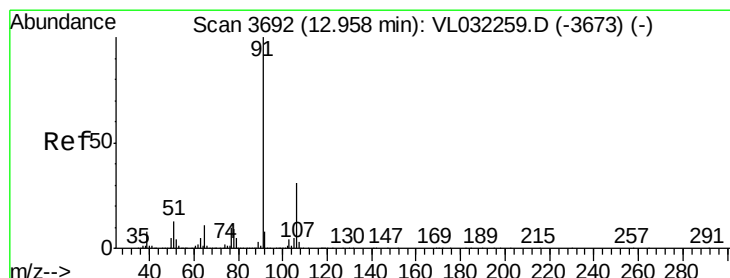
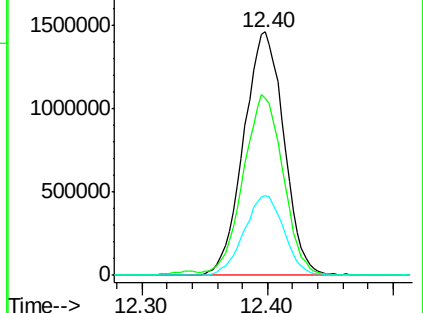
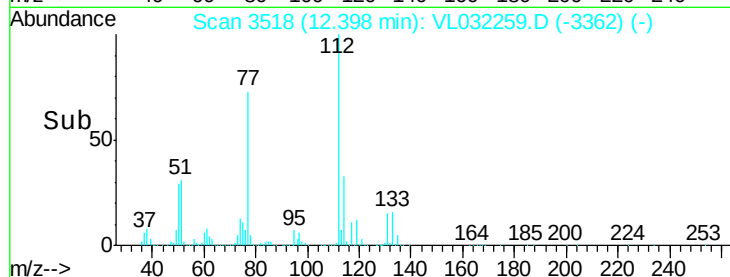
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.93 ppbv

RT: 12.96 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL032259.D

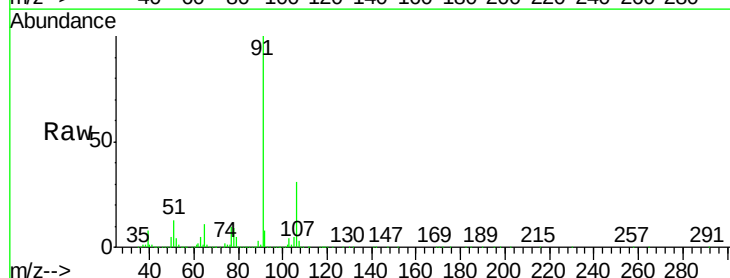
Acq: 18 Jul 2018 9:18

Tgt Ion: 91 Resp: 6451927

Ion Ratio Lower Upper

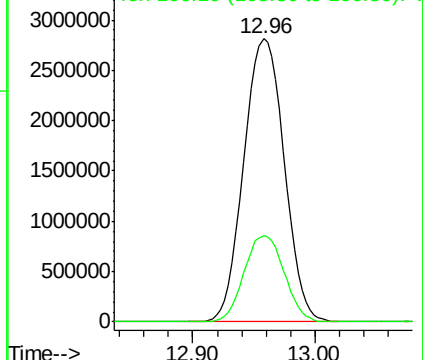
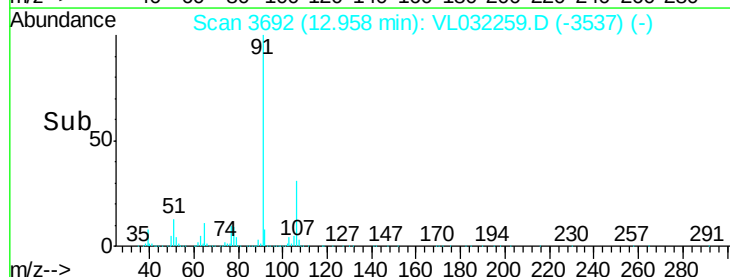
91 100

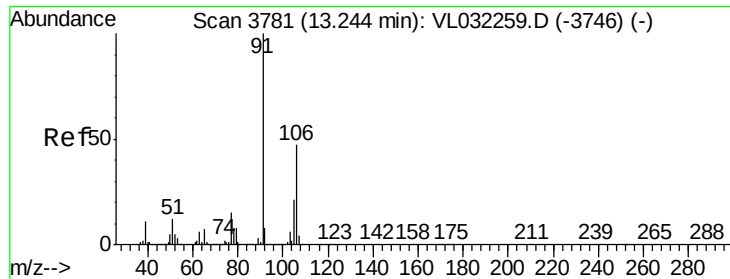
106 30.6 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





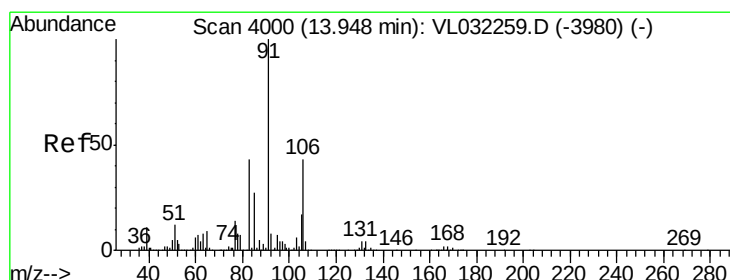
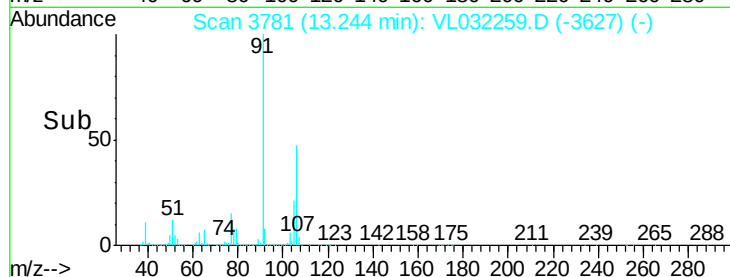
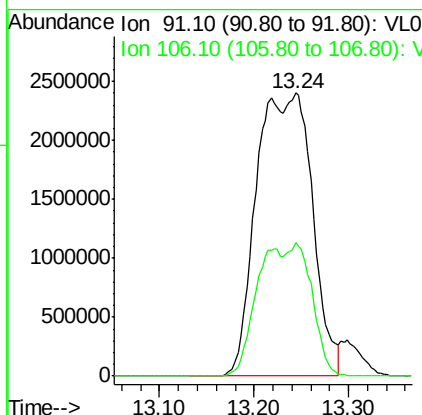
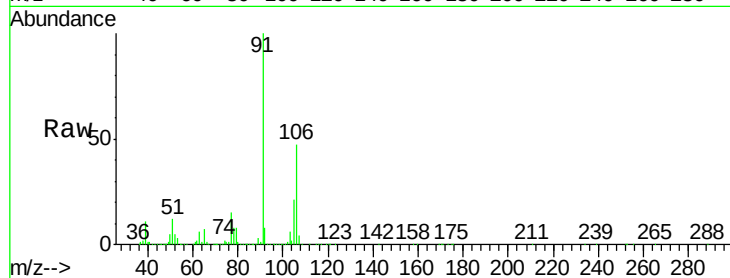
#59
m/p-Xylene
Concen: 18.40 ppbv m
RT: 13.24 min Scan# 3781
Delta R.T. -0.01 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 9837937
Ion Ratio Lower Upper
91 100
106 45.2 36.4 54.6

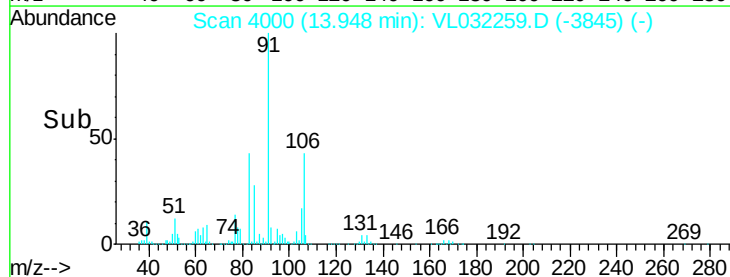
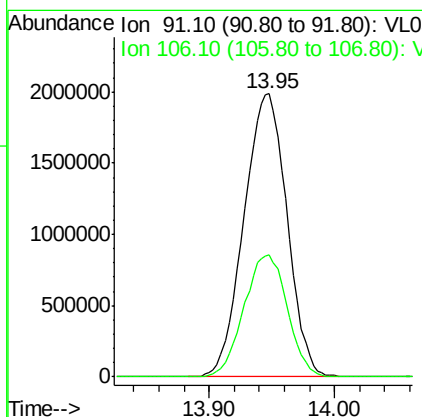
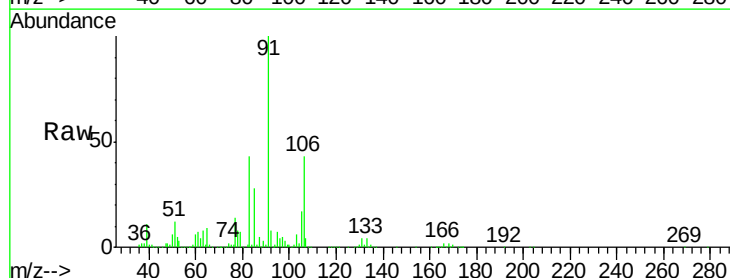
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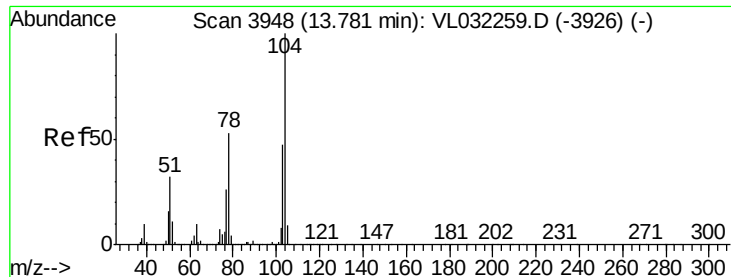
MMDadoda
7/20/2018 2:53:02 PM



#60
o-Xylene
Concen: 8.98 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion: 91 Resp: 4737771
Ion Ratio Lower Upper
91 100
106 43.4 21.9 65.5





#61

Stvrene

Concen: 10.33 ppbv

RT: 13.78 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

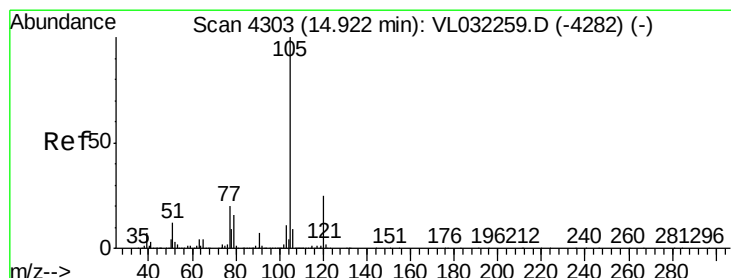
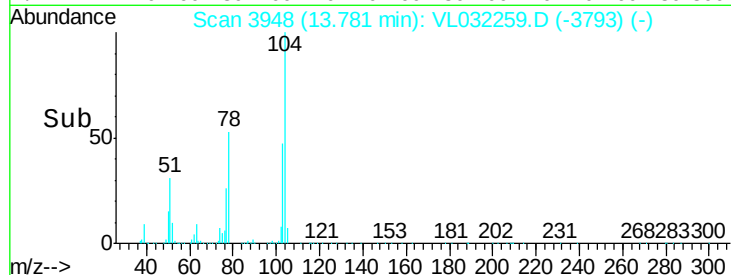
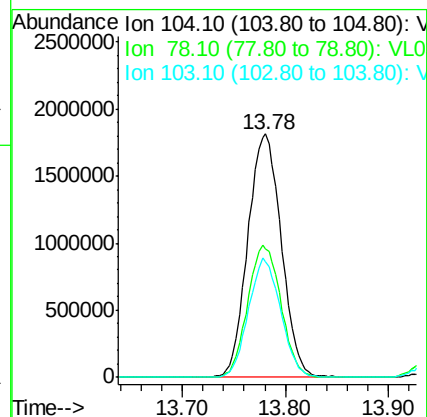
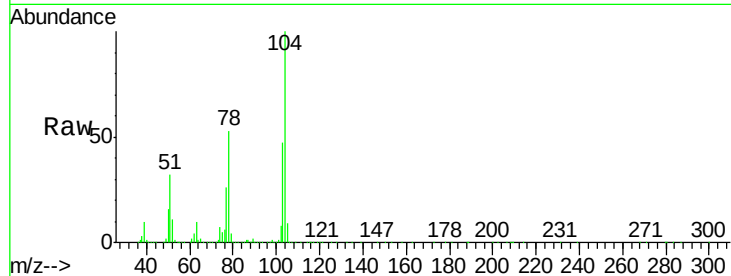
ClientSampleId :

VSTDICCC010

Tot Ion:	104	Resp:	4085255
Ion	Ratio	Lower	Upper
104	100		
78	54.0	43.4	65.0
103	47.2	38.0	57.0

Manual Integrations
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7/20/2018 2:53:02 PM



#62

Isopropylbenzene

Concen: 9.78 ppbv

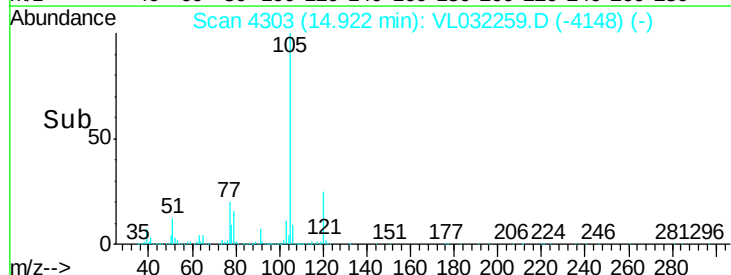
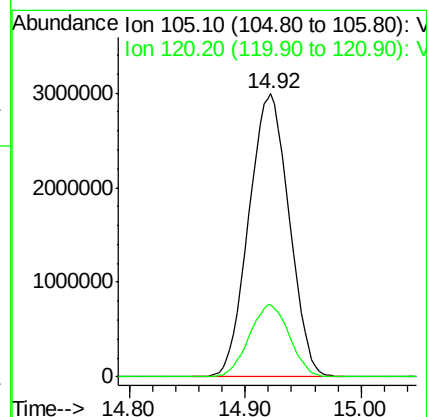
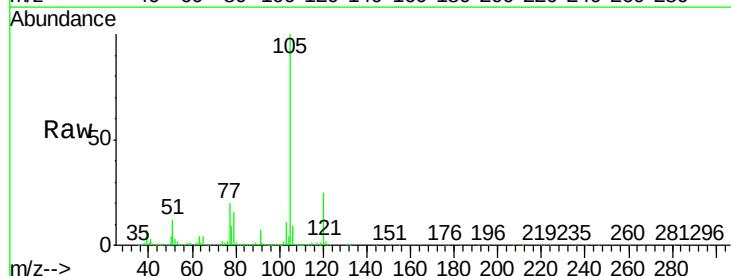
RT: 14.92 min Scan# 4303

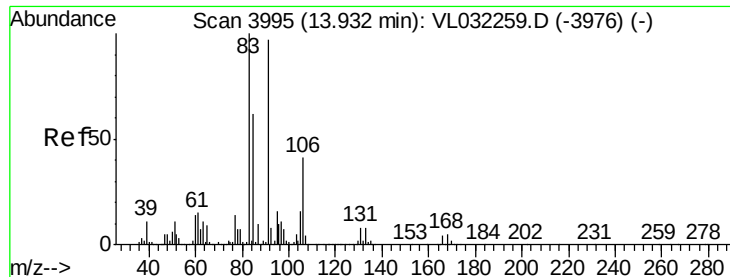
Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Tgt Ion:	105	Resp:	7233245
Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.2	30.2





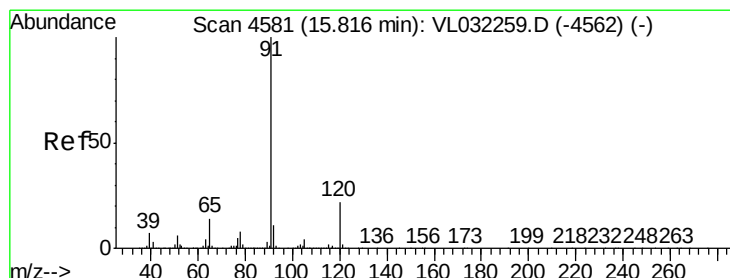
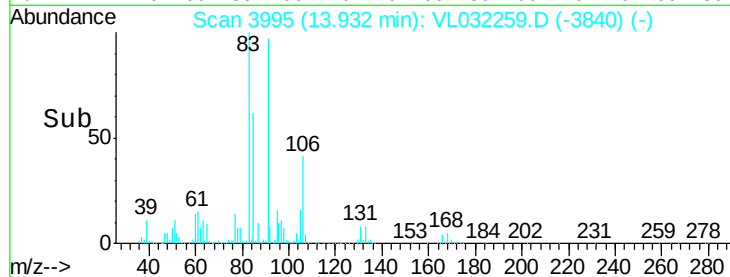
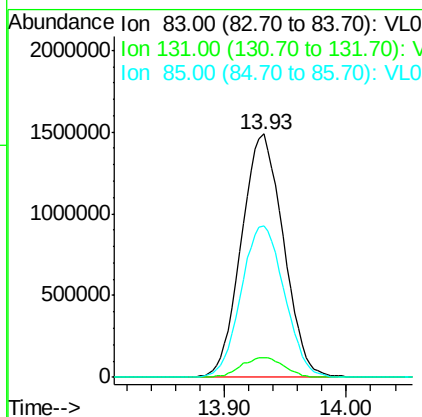
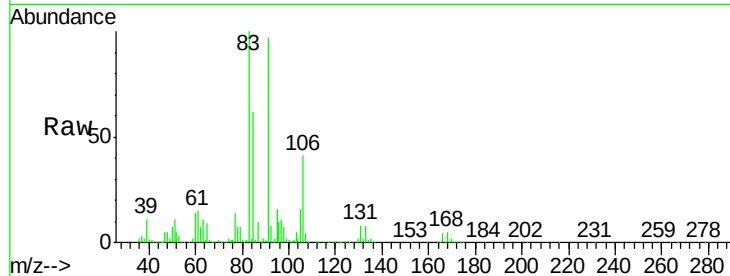
#63
1,1,2,2-Tetrachloroethane
Concen: 8.27 ppbv
RT: 13.93 min Scan# 3995
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	64.4	32.5	97.5

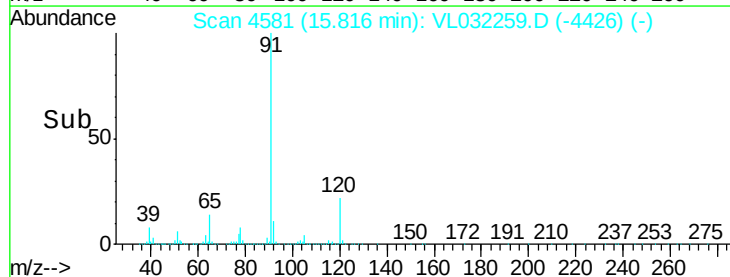
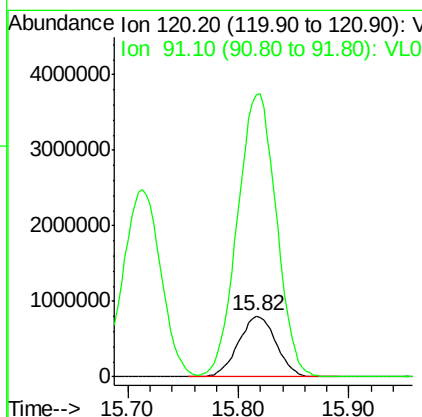
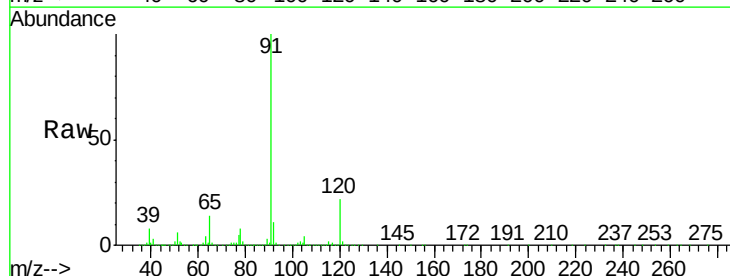
Manual Integrations
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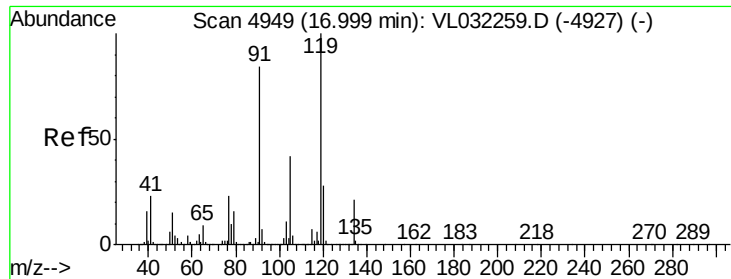
MMDadoda
7/20/2018 2:53:02 PM



#64
n-propylbenzene
Concen: 10.16 ppbv
RT: 15.82 min Scan# 4581
Delta R.T. -0.00 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
120	100		
91	480.5	385.0	577.4





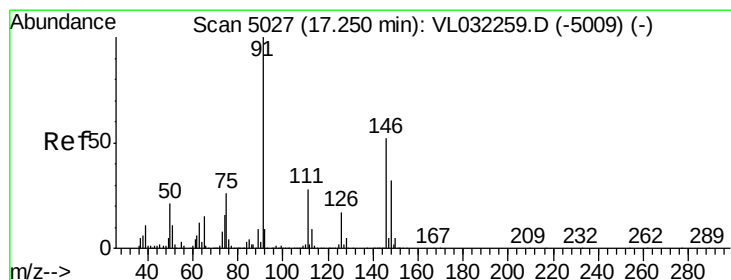
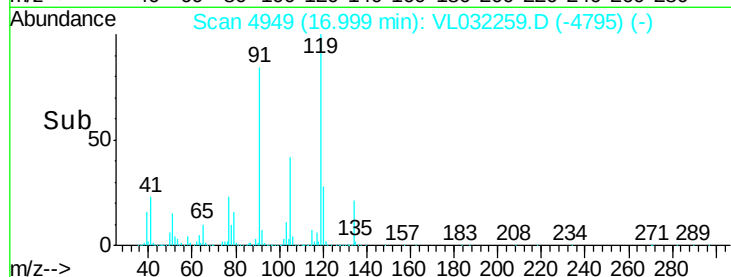
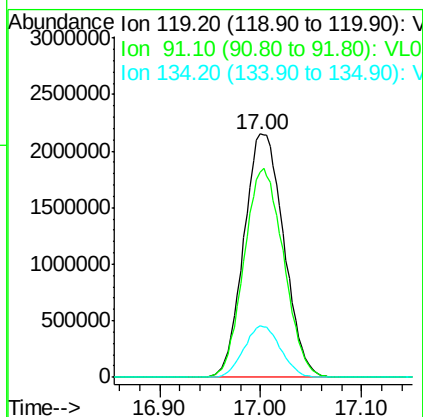
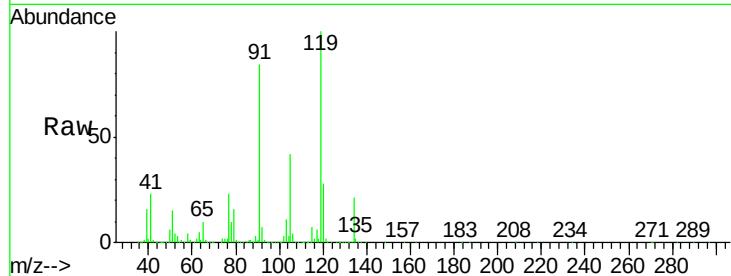
#65
tert-Butylbenzene
Concen: 9.51 ppbv
RT: 17.00 min Scan# 4949
Delta R.T. -0.01 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	85.3	68.6	102.8
134	19.5	15.4	23.2

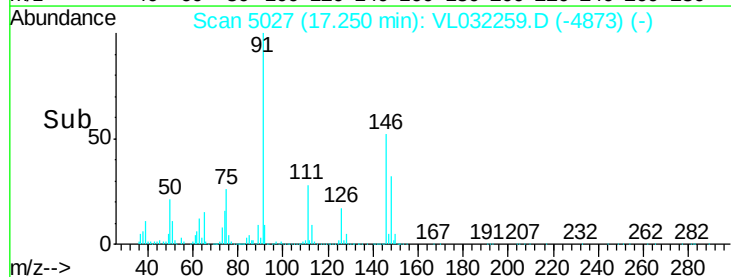
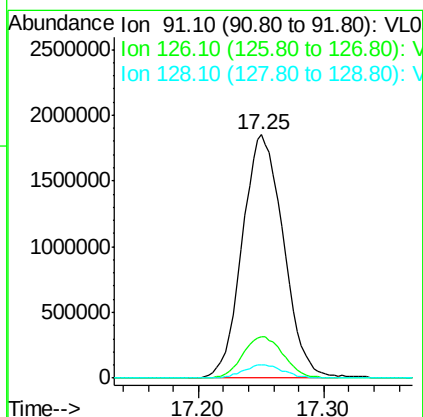
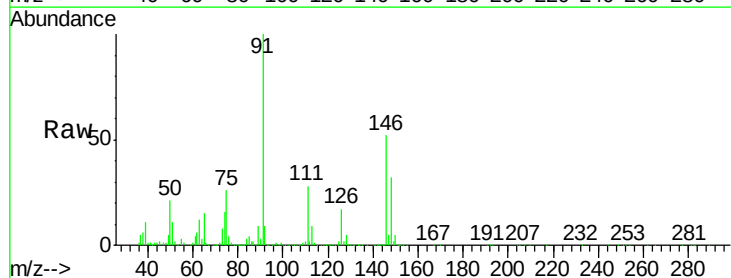
Manual Integrations
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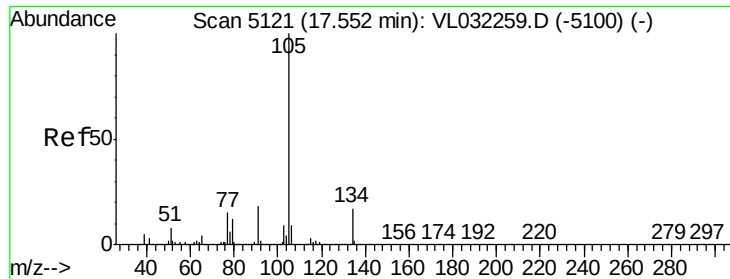
MMDadoda
7/20/2018 2:53:02 PM



#66
Benzyl Chloride
Concen: 13.44 ppbv
RT: 17.25 min Scan# 5027
Delta R.T. -0.01 min
Lab File: VL032259.D
Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.8	13.4	20.0
128	5.4	4.5	6.7





#67

sec-Butylbenzene

Concen: 9.67 ppbv

RT: 17.55 min Scan# 5121

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 8751563

Ion Ratio Lower Upper

105 100

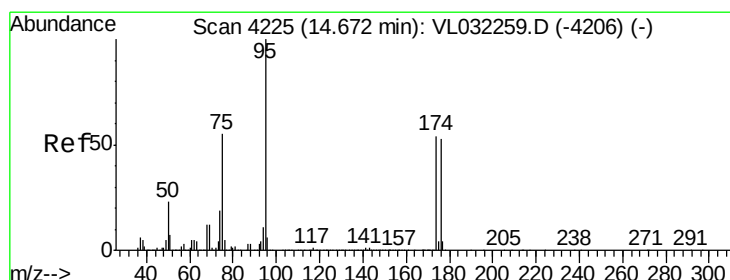
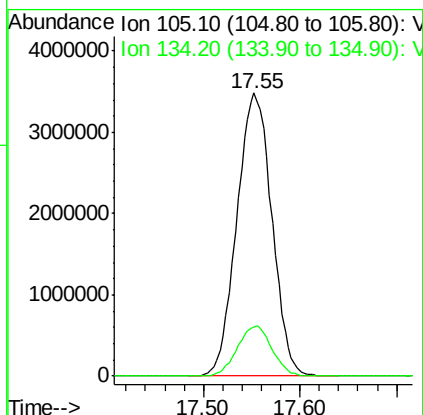
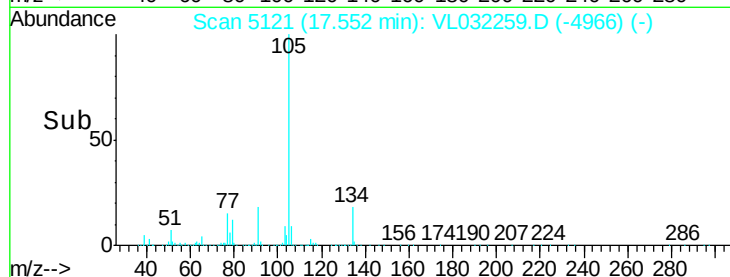
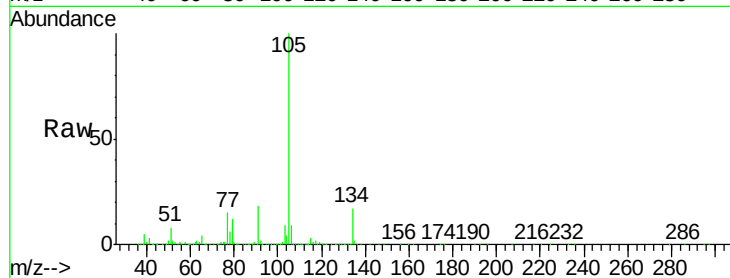
134 17.5

14.2 21.2

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.60 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Tgt Ion: 95 Resp: 3663052

Ion Ratio Lower Upper

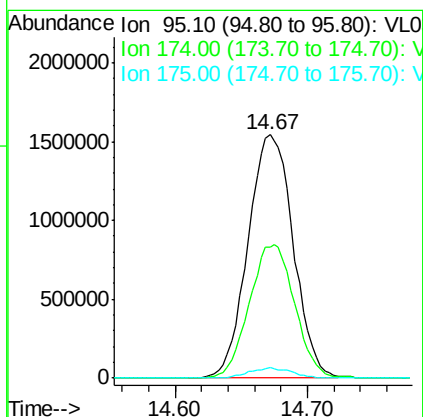
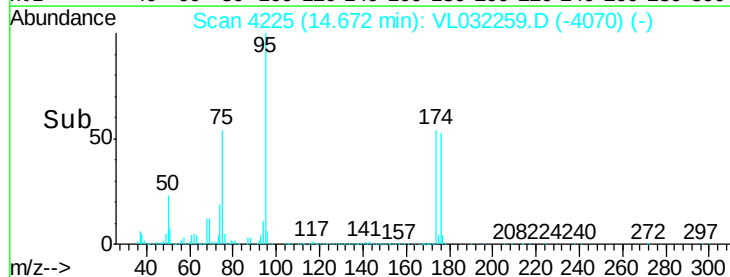
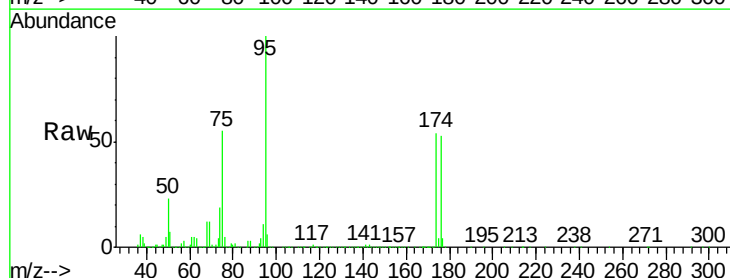
95 100

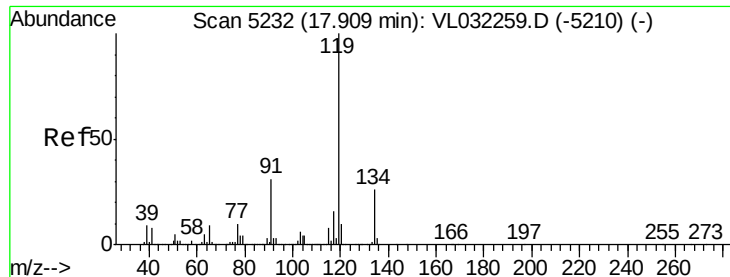
174 55.4

175 4.1

44.6 67.0

3.3 4.9





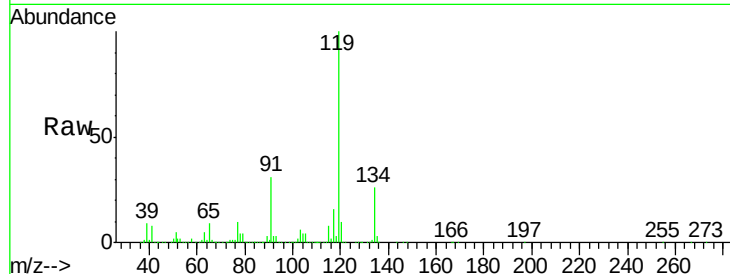
#69
 p-Isopropyltoluene
 Concen: 9.76 ppbv
 RT: 17.91 min Scan# 5232
 Delta R.T. -0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

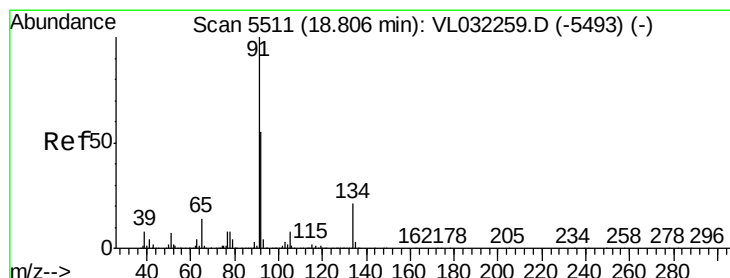
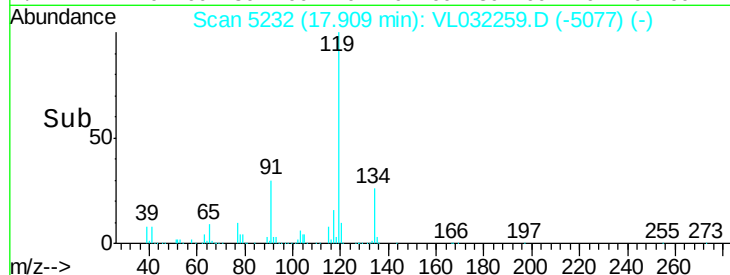
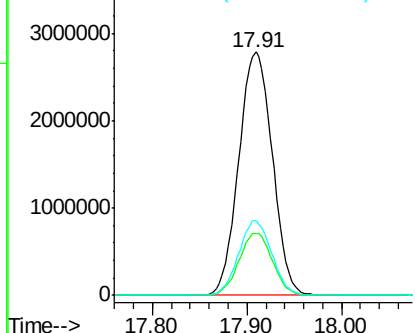
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.1	30.1
91	30.1	24.2	36.2

Manual Integrations
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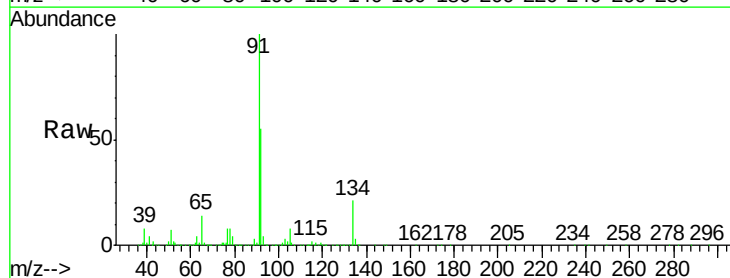


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

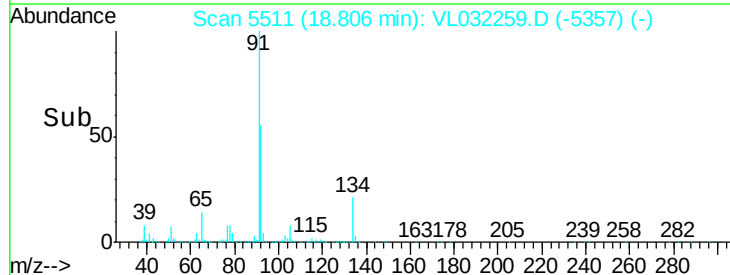
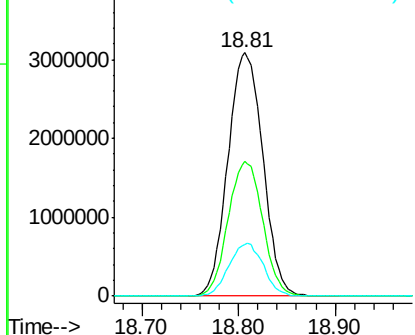


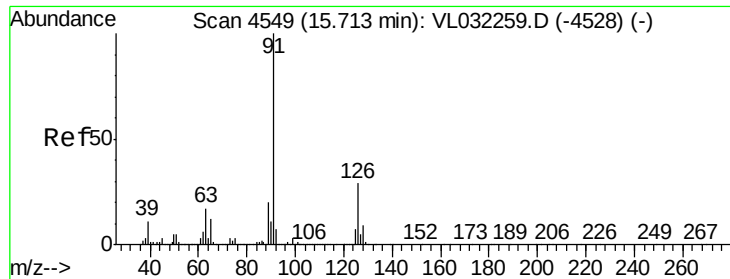
#70
 n-Butylbenzene
 Concen: 9.93 ppbv
 RT: 18.81 min Scan# 5511
 Delta R.T. -0.01 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	43.6	65.4
134	21.4	17.1	25.7



Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 92.10 (91.80 to 92.80): V
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.09 ppbv

RT: 15.71 min Scan# 4549

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 5875184

Ion Ratio Lower Upper

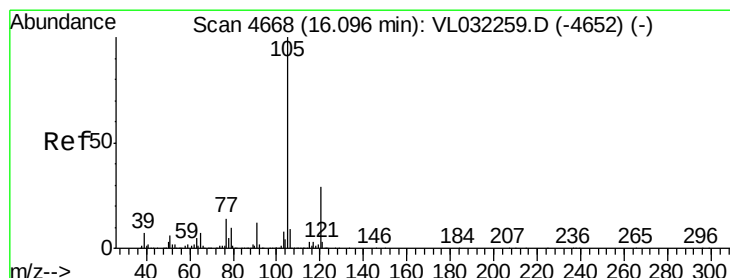
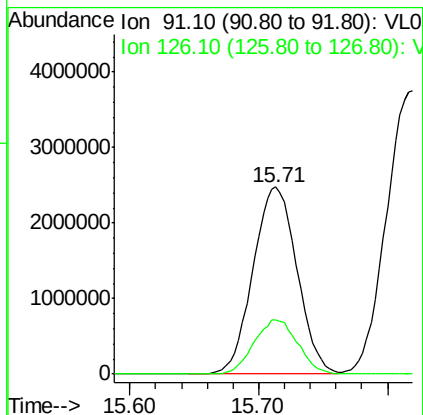
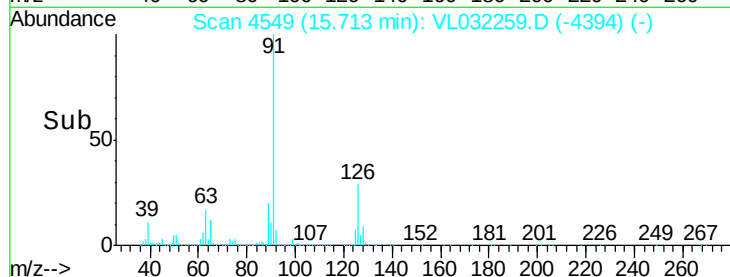
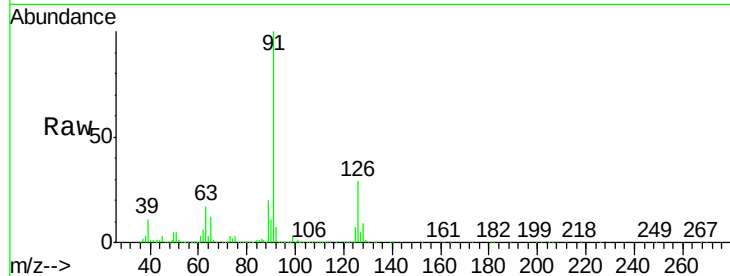
91 100

126 28.9 11.7 46.7

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#72

4-Ethyltoluene

Concen: 10.30 ppbv

RT: 16.10 min Scan# 4668

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Tgt Ion:105 Resp: 6096463

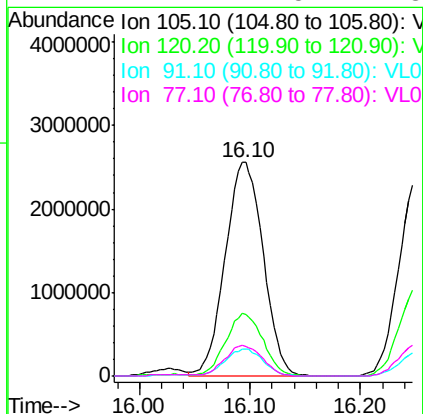
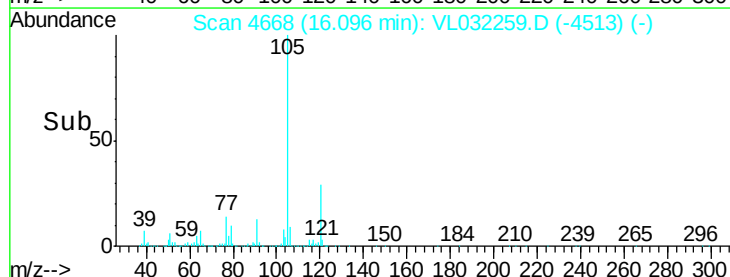
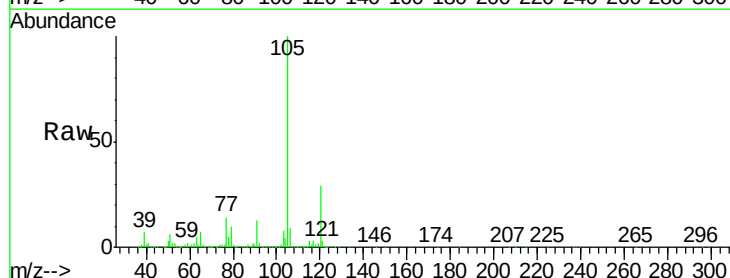
Ion Ratio Lower Upper

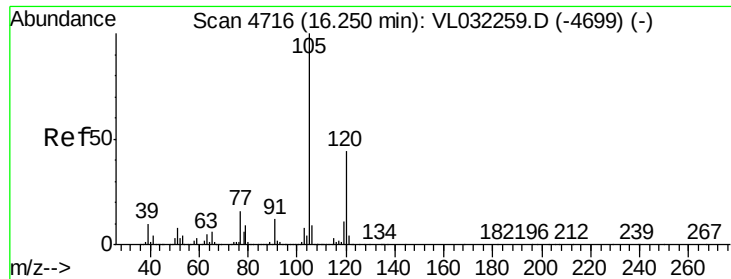
105 100

120 28.8 23.3 34.9

91 12.6 10.3 15.5

77 14.2 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 10.45 ppbv

RT: 16.25 min Scan# 4716

Delta R.T. -0.01 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 5754274

Ion Ratio Lower Upper

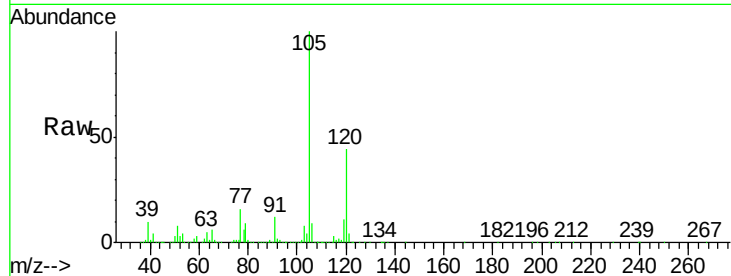
105 100

120 44.4 36.6 54.8

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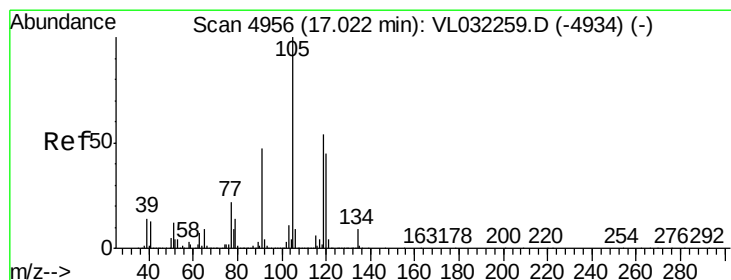
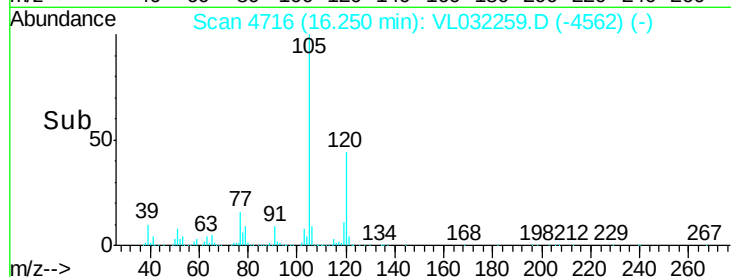
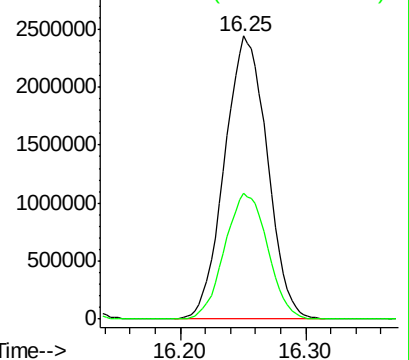
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.89 ppbv

RT: 17.02 min Scan# 4956

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Tgt Ion:105 Resp: 5568634

Ion Ratio Lower Upper

105 100

120 44.7 37.0 55.4

91 47.8 38.2 57.2

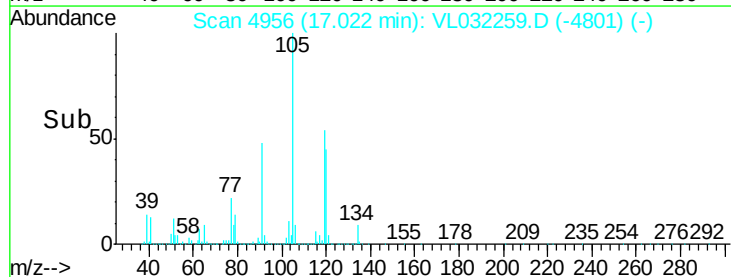
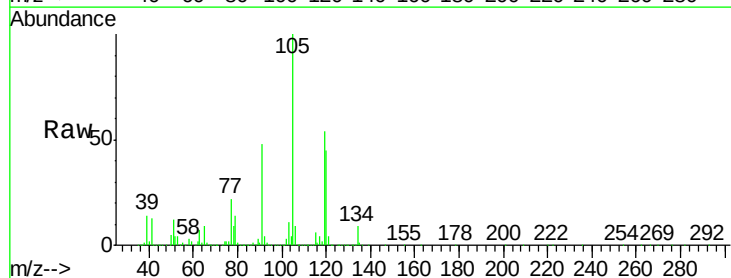
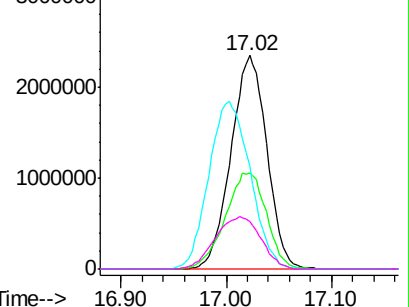
77 21.9 17.7 26.5

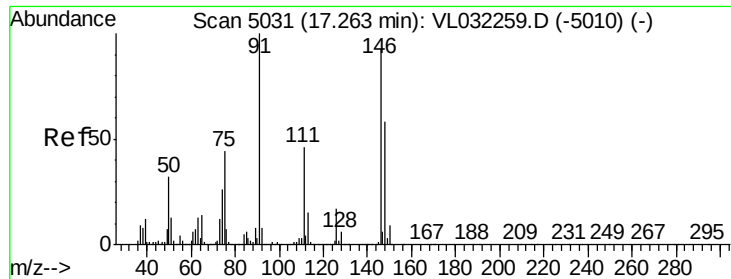
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75
 1,3-Dichlorobenzene
 Concen: 9.11 ppbv
 RT: 17.26 min Scan# 5031
 Delta R.T. -0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

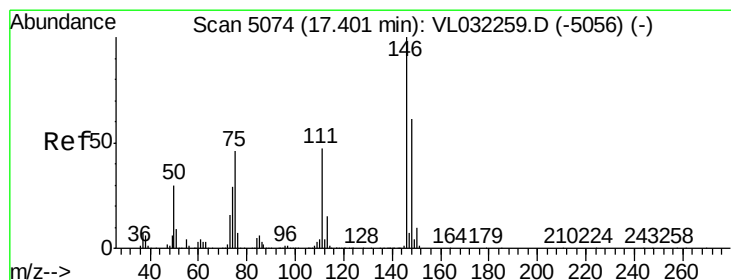
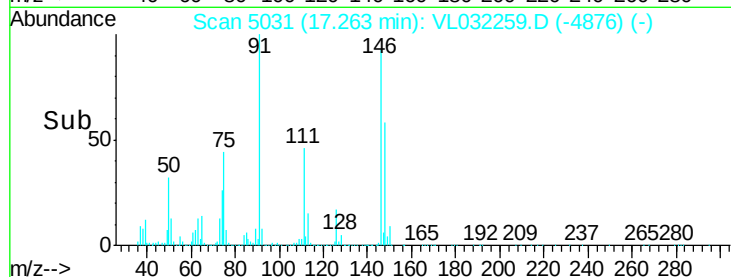
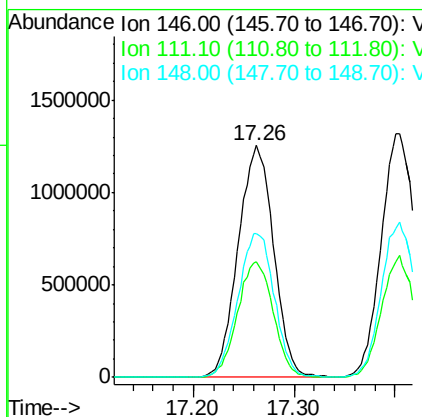
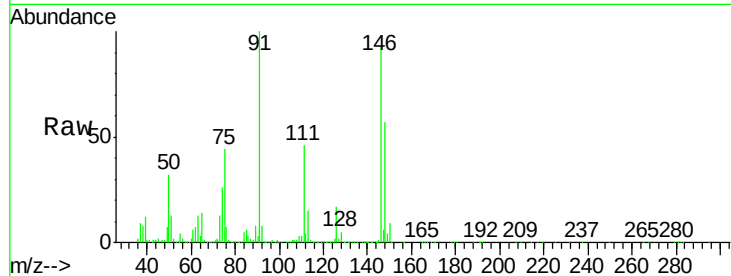
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 3057649

Ion	Ratio	Lower	Upper
146	100		
111	50.3	24.9	74.7
148	63.5	31.9	95.5

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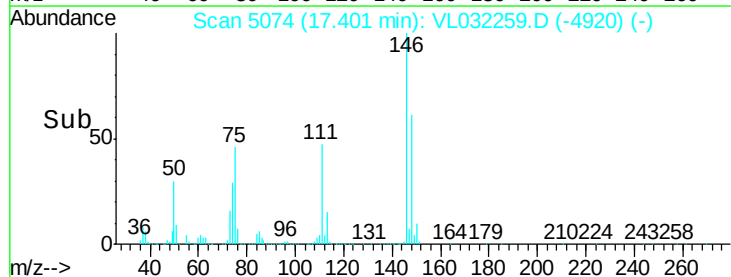
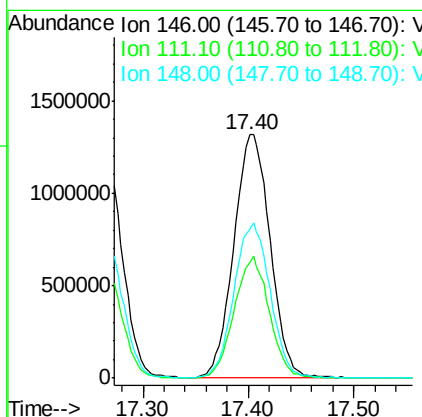
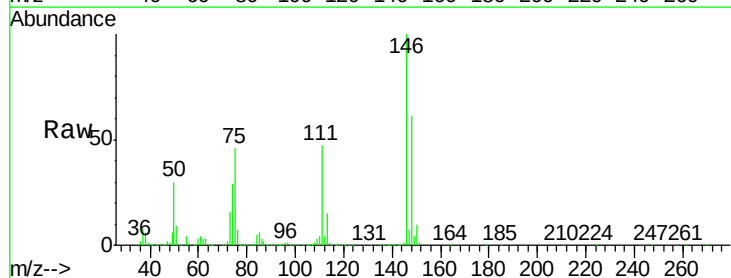
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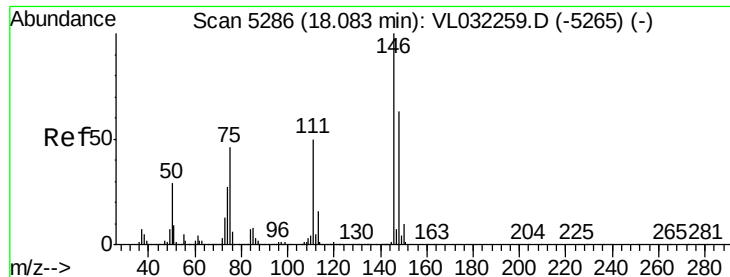


#76
 1,4-Dichlorobenzene
 Concen: 9.54 ppbv
 RT: 17.40 min Scan# 5074
 Delta R.T. -0.01 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion:146 Resp: 3135807

Ion	Ratio	Lower	Upper
146	100		
111	48.1	24.6	73.6
148	63.9	32.3	96.9





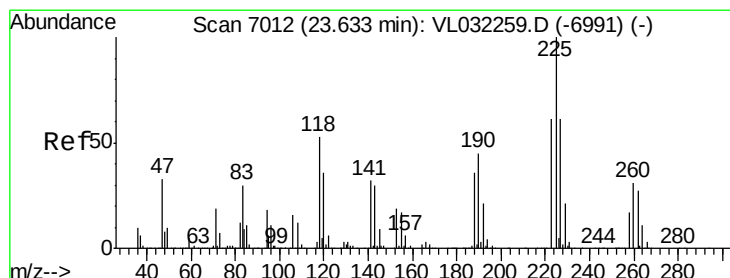
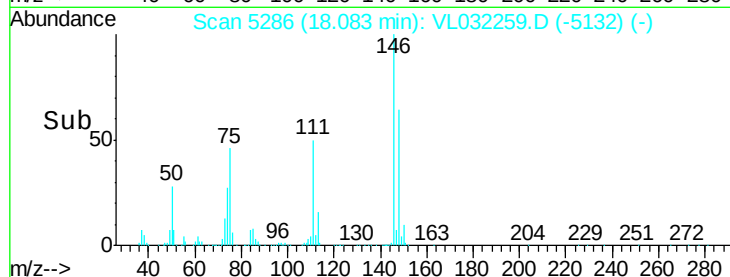
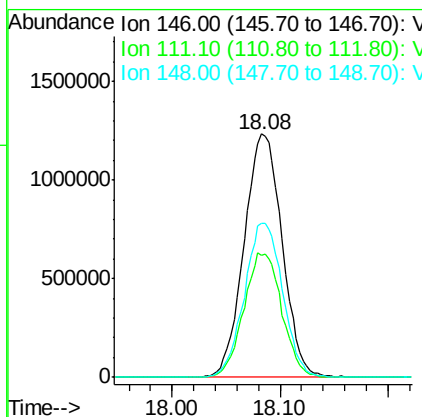
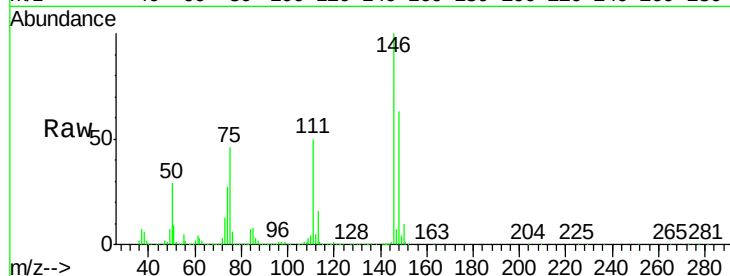
#77
 1,2-Dichlorobenzene
 Concen: 9.05 ppbv
 RT: 18.08 min Scan# 5286
 Delta R.T. -0.01 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.2	26.1	78.3
148	63.7	32.0	96.0

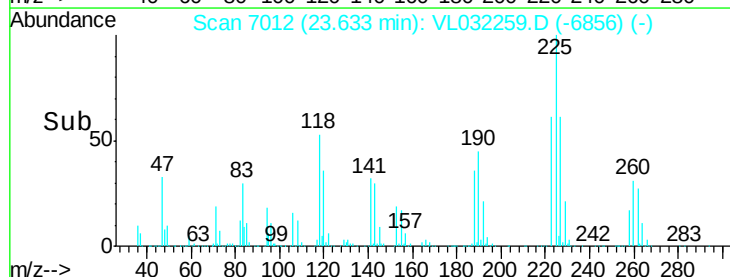
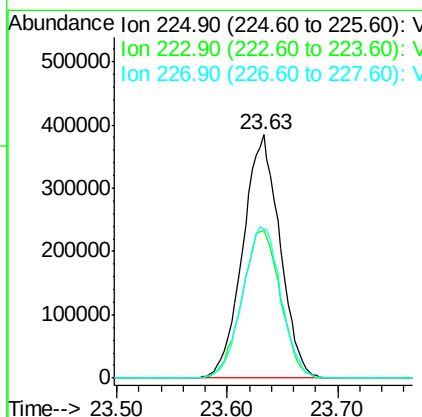
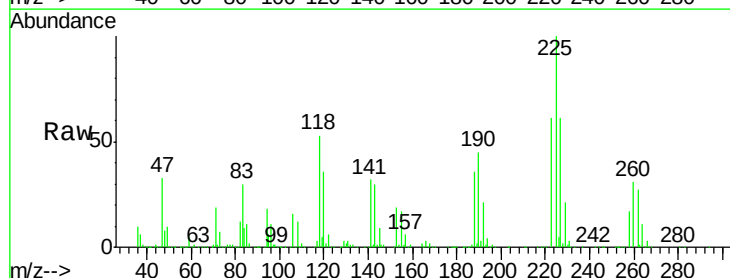
Manual Integrations
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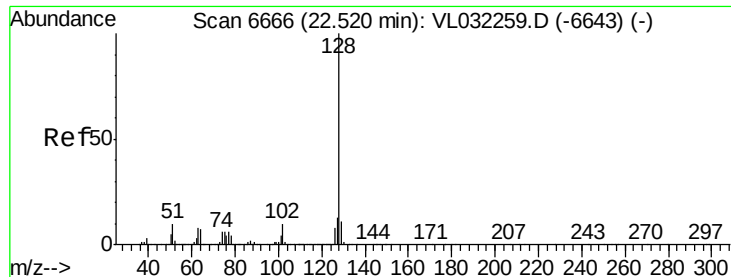
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.61 ppbv
 RT: 23.63 min Scan# 7012
 Delta R.T. 0.00 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.3	75.5
227	64.4	50.9	76.3





#79

Naphthalene

Concen: 13.47 ppbv

RT: 22.52 min Scan# 6666

Delta R.T. -0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Instrument :

MSVOA_L

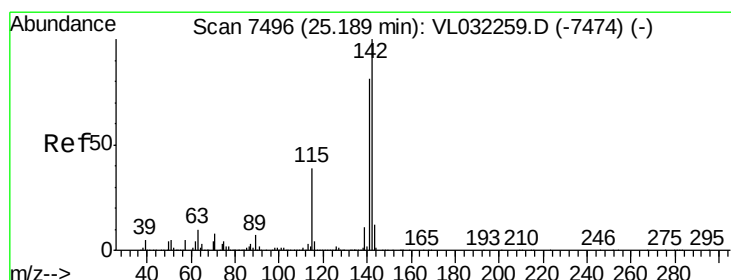
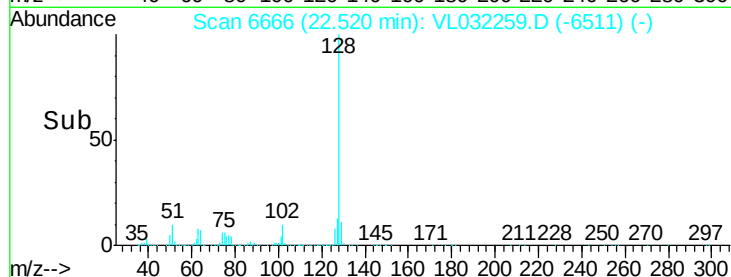
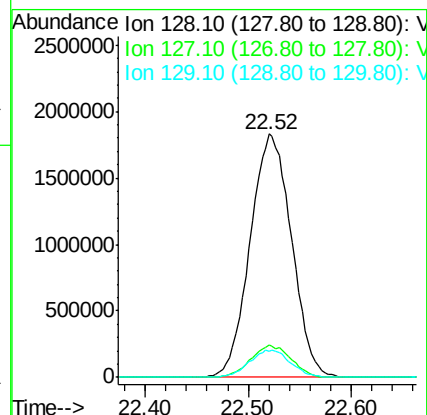
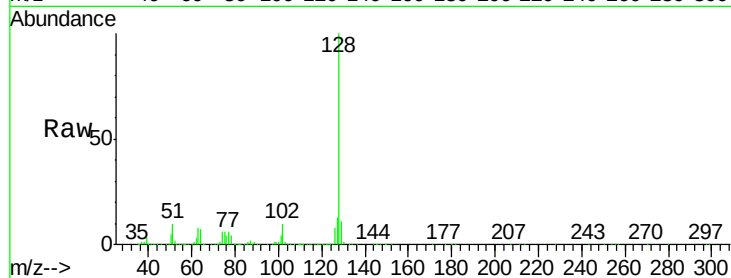
ClientSampleId :

VSTDICCC010

Tot Ion:	128	Resp:	5089402
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.0	15.0
129	10.7	9.0	13.4

Manual Integrations
APPROVED

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7/20/2018 2:53:02 PM



#80

Naphthalene, 2-methyl-

Concen: 20.71 ppbv

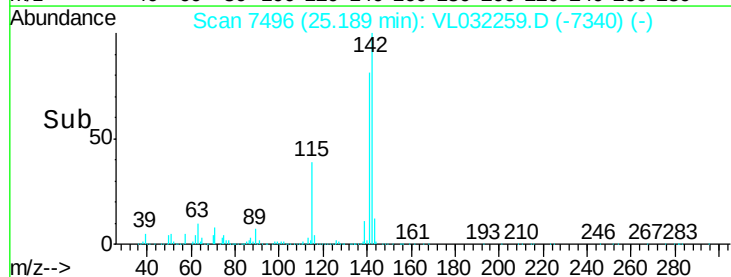
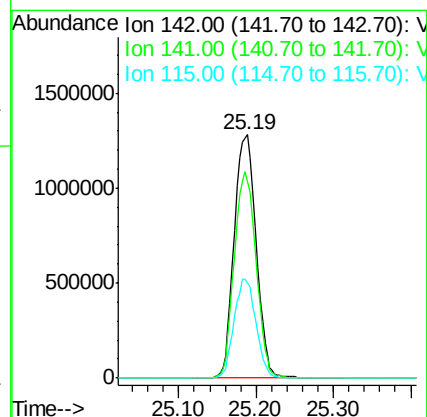
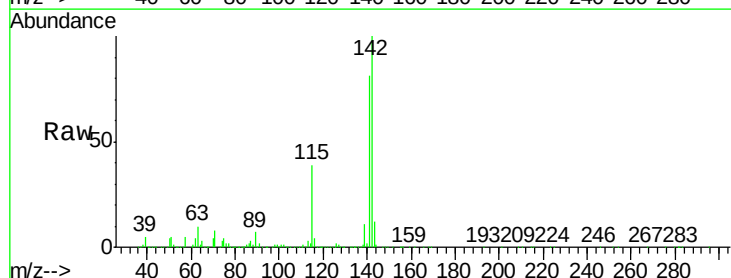
RT: 25.19 min Scan# 7496

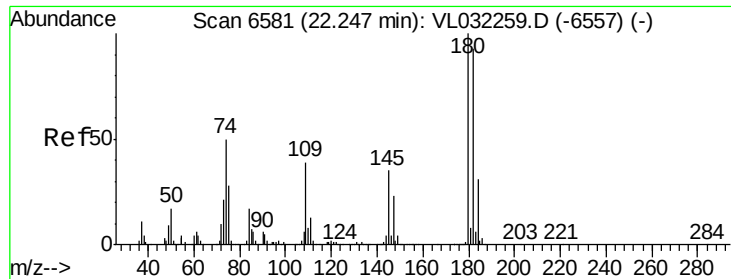
Delta R.T. 0.00 min

Lab File: VL032259.D

Acq: 18 Jul 2018 9:18

Tgt Ion:	142	Resp:	2500339
Ion	Ratio	Lower	Upper
142	100		
141	83.9	67.0	100.6
115	40.6	32.6	49.0





#81
 1,2,4-Trichlorobenzene
 Concen: 12.66 ppbv
 RT: 22.25 min Scan# 6581
 Delta R.T. -0.01 min
 Lab File: VL032259.D
 Acq: 18 Jul 2018 9:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.1	114.1
184	30.5	24.2	36.4

Manual Integrations
 APPROVED

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 7/20/2018 2:53:02 PM

