

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034049.D
 Acq On : 30 Jul 2019 2:48
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:34 AM

Quant Time: Jul 30 05:18:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 05:18:05 2019
 QLast Update : Tue Jul 30 05:02:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1241801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	3291544	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3315852	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2629098	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	427168	1.637	ppbv	96
3) Chlorodifluoromethane	2.99	51	287258	1.844	ppbv	96
4) Chloromethane	3.15	50	163755	1.788	ppbv	96
5) Vinyl Chloride	3.26	62	177261	1.740	ppbv	99
6) Bromomethane	3.48	94	111864	1.810	ppbv	95
7) Chloroethane	3.57	64	70032	1.860	ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	470958	1.817	ppbv	99
9) Propene	3.01	41	104628	1.827	ppbv	99
10) Heptane	8.19	43	295519	2.136	ppbv	99
11) Trichlorofluoromethane	3.97	101	518137	1.721	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.52	101	399449	1.994	ppbv	100
13) Ethanol	3.62	45	46087	2.561	ppbv	92
14) Bromoethene	3.76	108	146878	1.878	ppbv	98
15) Acetone	3.87	43	378747	1.743	ppbv	98
16) 1,3-Butadiene	3.34	39	136913	1.742	ppbv	97
17) tert-Butyl alcohol	4.33	59	327913	1.981	ppbv	98
18) 1,1-Dichloroethene	4.32	96	179043	1.994	ppbv	96
19) Isopropyl Alcohol	3.99	45	245991m	1.684	ppbv	
20) Methylene Chloride	4.37	84	153196	1.712	ppbv	95
21) Allyl Chloride	4.44	41	263964	2.058	ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	186844	2.185	ppbv	95
23) Vinyl Acetate	5.12	43	445554	2.180	ppbv #	97
24) 1,1-Dichloroethane	5.05	63	386950	2.115	ppbv	99
25) Ethyl Acetate	5.73	43	603535	2.139	ppbv	100
26) Hexane	5.73	57	266336	2.060	ppbv	95
27) Carbon Disulfide	4.58	76	438361	2.014	ppbv	96
28) Methyl tert-Butyl Ether	5.08	73	475286	2.179	ppbv	100
29) Chloroform	5.80	83	500544	2.064	ppbv	99
30) Cyclohexane	7.20	84	227826	2.152	ppbv	86
31) cis-1,2-Dichloroethene	5.60	61	269750	2.169	ppbv	96
32) 1,1,1-Trichloroethane	6.57	97	519655	2.115	ppbv	99
34) 2-Butanone	5.29	43	368474	2.258	ppbv	97
35) Carbon Tetrachloride	7.08	117	534163	2.149	ppbv	94
36) Benzene	6.96	78	552861	2.315	ppbv	98
37) 1,2-Dichloroethane	6.37	62	388810	2.186	ppbv	99
38) Trichloroethene	7.91	130	241328m	2.219	ppbv	
39) 1,2-Dichloropropane	7.69	63	264926	2.935	ppbv	94
40) 1,4-Dioxane	7.92	88	86377m	2.099	ppbv	
41) Tetrahydrofuran	6.11	42	186141	2.350	ppbv	99
42) Bromodichloromethane	7.87	83	516482	2.171	ppbv #	98
43) Methyl Methacrylate	8.09	69	209417	2.317	ppbv	95

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Manual Integrations
 APPROVED

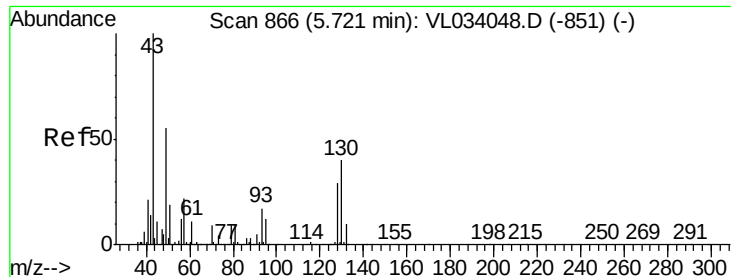
MMdadoda
 8/2/2019 9:37:34 AM

Quant Time: Jul 30 05:18:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.94	57	926460	2.239	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	259888	2.222	ppbv	94
46) cis-1,3-Dichloropropene	8.79	75	298356	2.188	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	244188	2.175	ppbv	96
48) Dibromochloromethane	10.39	129	441860	1.955	ppbv	99
49) Bromoform	13.14	173	415522	2.268	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	536848	2.236	ppbv	100
51) 2-Hexanone	10.23	43	426972	2.080	ppbv #	98
52) Tetrachloroethene	11.32	164	229734	2.187	ppbv	87
53) Toluene	9.89	91	640037	2.354	ppbv	97
54) 1,2-Dibromoethane	10.71	107	364817	2.216	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.22	131	326849	2.241	ppbv #	1
57) Chlorobenzene	12.24	112	548434	2.111	ppbv	97
58) Ethyl Benzene	12.81	91	887310	2.261	ppbv	98
59) m/p-Xylene	13.09	91	1593531m	4.481	ppbv	
60) o-Xylene	13.79	91	794192	2.226	ppbv	100
61) Styrene	13.63	104	538520	2.296	ppbv	99
62) Isopropylbenzene	14.77	105	1097124m	2.129	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.78	83	570064	2.059	ppbv	99
64) n-propylbenzene	15.67	120	272930	2.048	ppbv	95
65) tert-Butylbenzene	16.85	119	1023765	2.357	ppbv	98
66) Benzyl Chloride	17.10	91	484129	2.204	ppbv	99
67) sec-Butylbenzene	17.40	105	1437622	2.345	ppbv	99
69) p-Isopropyltoluene	17.76	119	1182948	2.346	ppbv	99
70) n-Butylbenzene	18.66	91	1279308	2.411	ppbv	98
71) 2-Chlorotoluene	15.56	91	808063	2.153	ppbv	100
72) 4-Ethyltoluene	15.94	105	925033	2.140	ppbv	100
73) 1,3,5-Trimethylbenzene	16.10	105	925589	2.322	ppbv	93
74) 1,2,4-Trimethylbenzene	16.87	105	1028038	2.329	ppbv #	90
75) 1,3-Dichlorobenzene	17.11	146	630799	2.240	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	585747m	2.210	ppbv	
77) 1,2-Dichlorobenzene	17.93	146	578195m	2.222	ppbv	
78) Hexachloro-1,3-Butadiene	23.50	225	557121m	2.453	ppbv	
79) Naphthalene	22.34	128	926292	2.492	ppbv	95
80) Naphthalene, 2-methyl-	25.07	142	315674	2.346	ppbv	99
81) 1,2,4-Trichlorobenzene	22.06	180	596910	2.484	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

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ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1241801

Ion Ratio Lower Upper

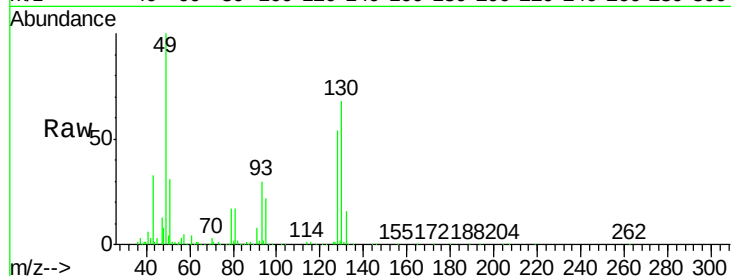
49 100

128 56.0 27.0 81.0

130 70.8 35.0 105.0

Manual Integrations
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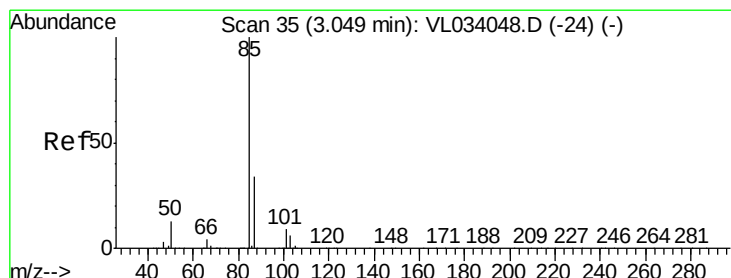
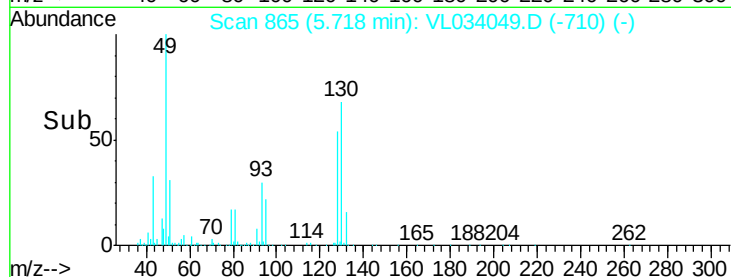
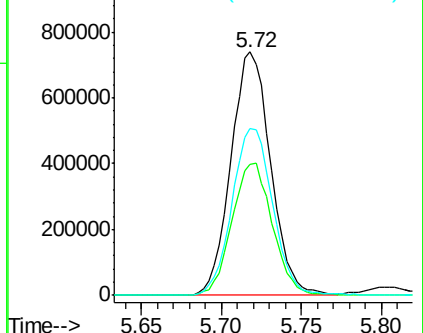
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.637 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL034049.D

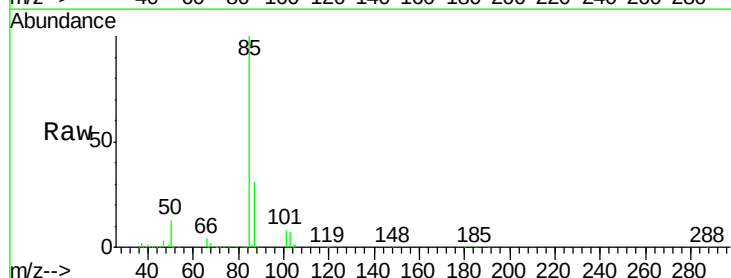
Acq: 30 Jul 2019 2:48

Tgt Ion: 85 Resp: 427168

Ion Ratio Lower Upper

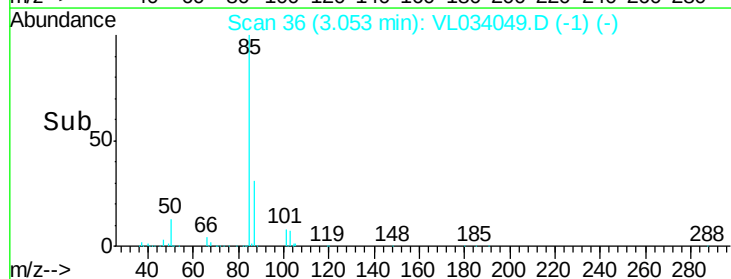
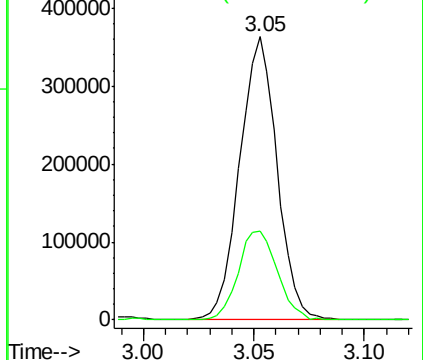
85 100

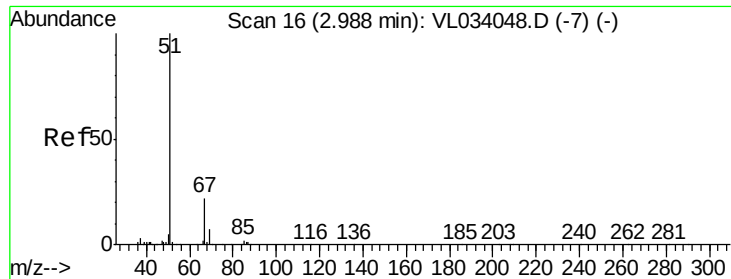
87 31.5 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





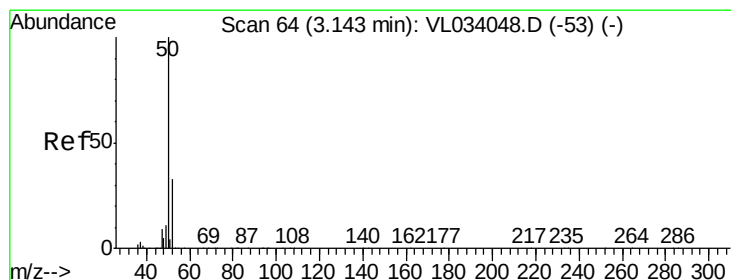
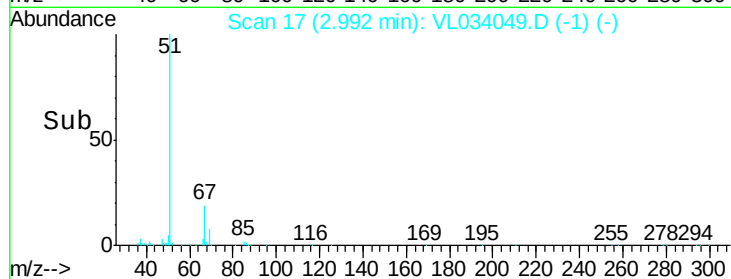
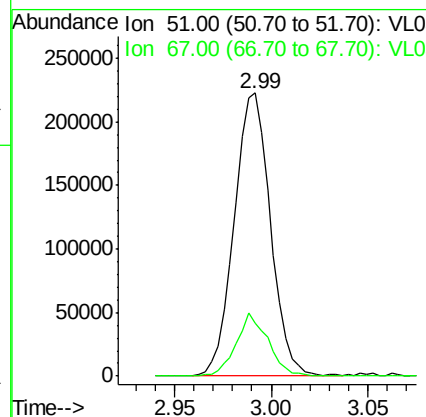
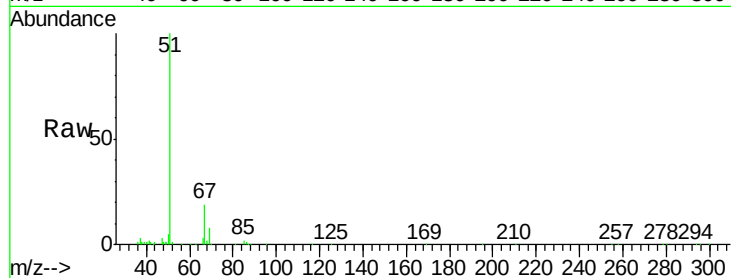
#3
Chlorodifluoromethane
Concen: 1.844 ppbv
RT: 2.99 min Scan# 17
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
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Tot Ion	Ratio	Lower	Upper
51	100		
67	19.9	17.4	26.0

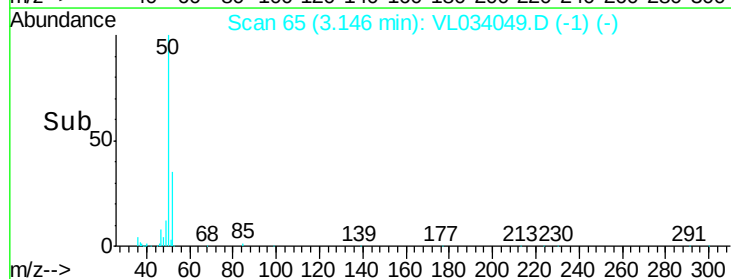
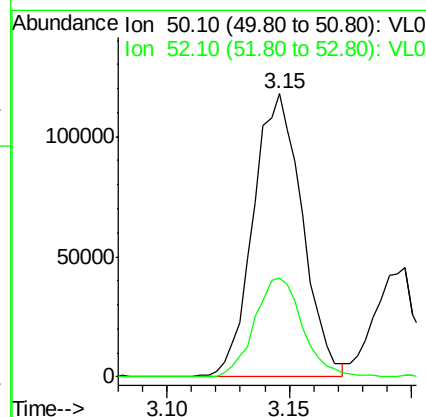
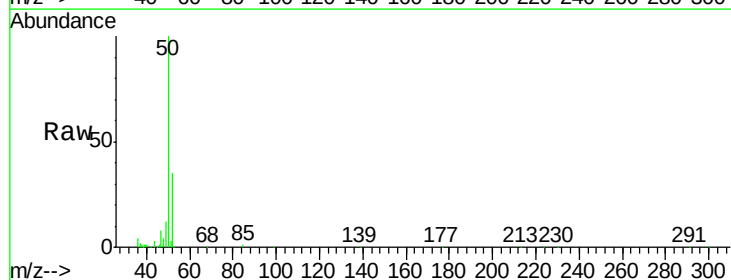
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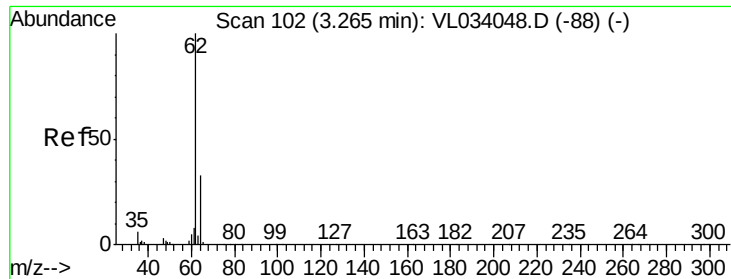
MMDadoda
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#4
Chloromethane
Concen: 1.788 ppbv
RT: 3.15 min Scan# 65
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.4	26.7	40.1





#5

Vinyl Chloride

Concen: 1.740 ppbv

RT: 3.26 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 177261

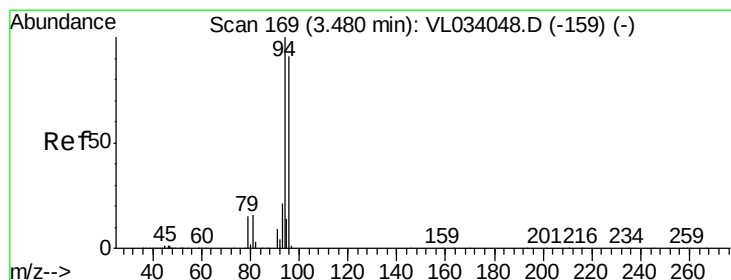
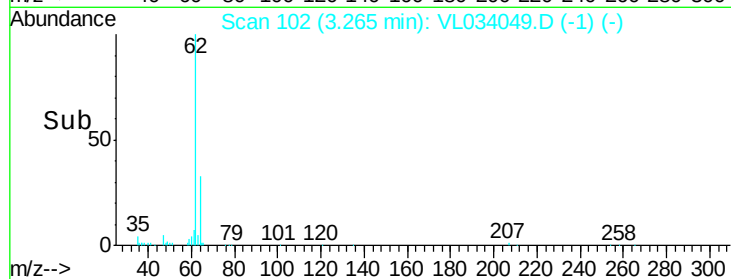
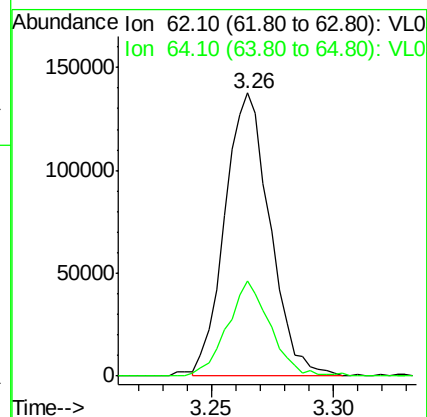
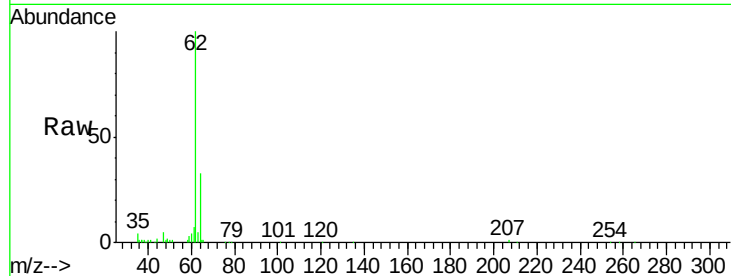
Ion Ratio Lower Upper

62 100

64 32.5 26.5 39.7

Manual Integrations
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#6

Bromomethane

Concen: 1.810 ppbv

RT: 3.48 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL034049.D

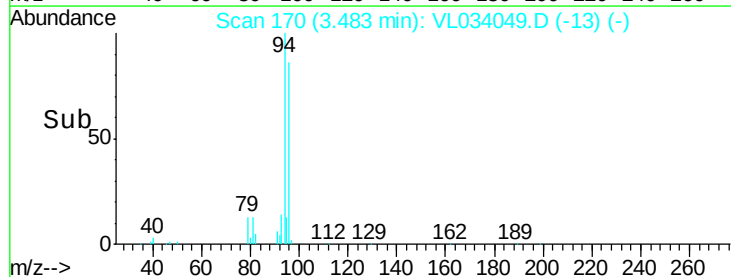
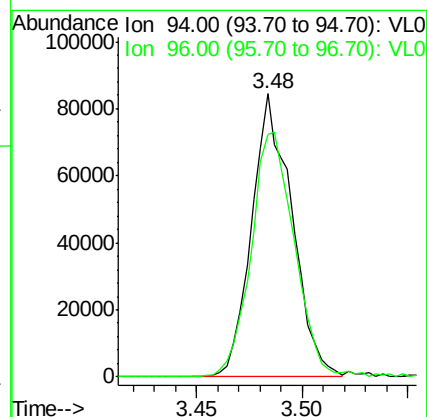
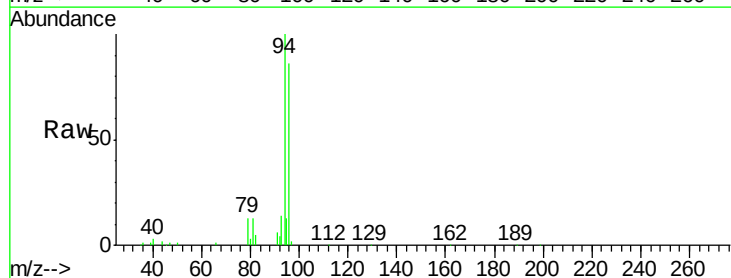
Acq: 30 Jul 2019 2:48

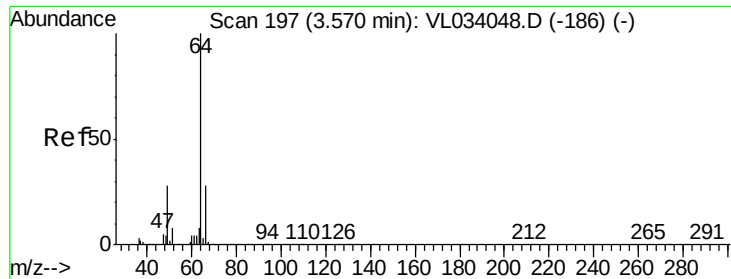
Tgt Ion: 94 Resp: 111864

Ion Ratio Lower Upper

94 100

96 85.5 72.6 108.8





#7

Chloroethane

Concen: 1.860 ppbv

RT: 3.57 min Scan# 198

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 70032

Ion Ratio Lower Upper

64 100

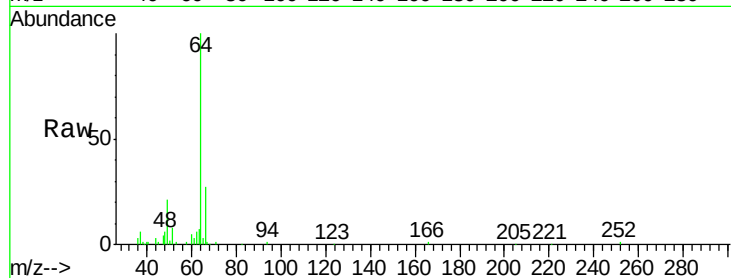
66 26.9 22.0 33.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

60000

50000

40000

30000

20000

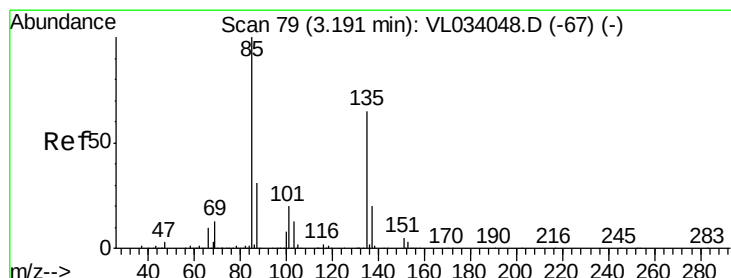
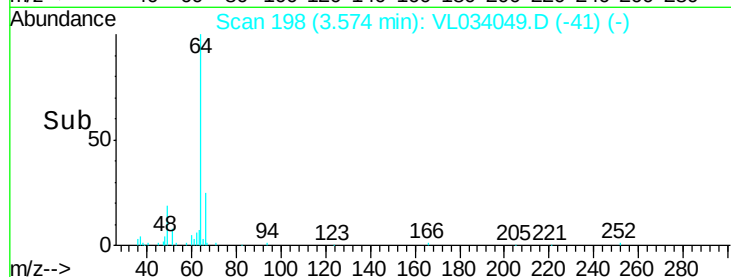
10000

0

3.55

3.60

Time-->



#8

Dichlorotetrafluoroethane

Concen: 1.817 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034049.D

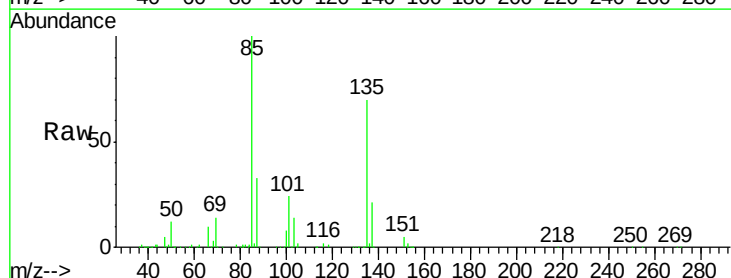
Acq: 30 Jul 2019 2:48

Tgt Ion: 85 Resp: 470958

Ion Ratio Lower Upper

85 100

135 68.5 54.1 81.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

400000

300000

200000

100000

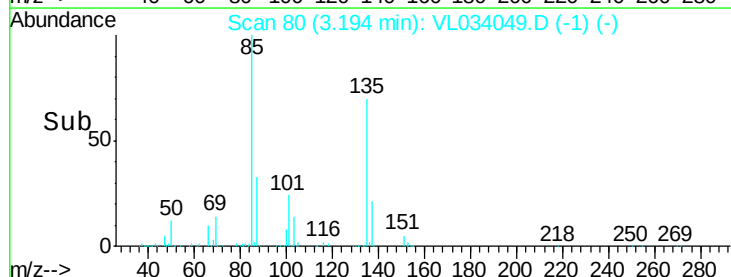
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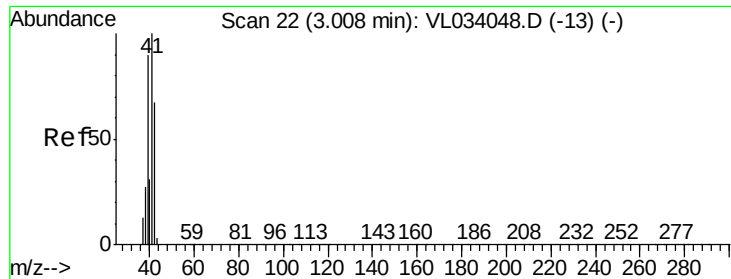
3.15

3.20

3.25

Time-->





#9

Propene

Concen: 1.827 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 104628

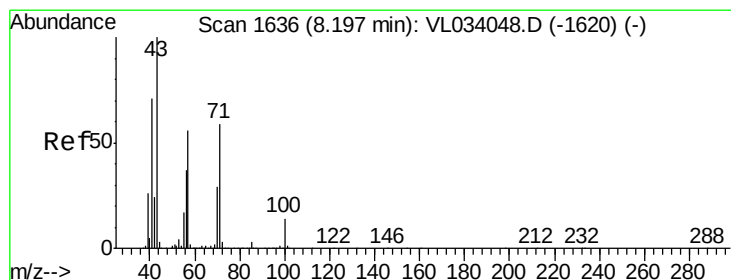
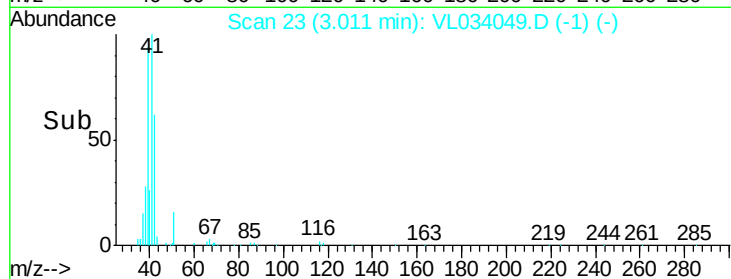
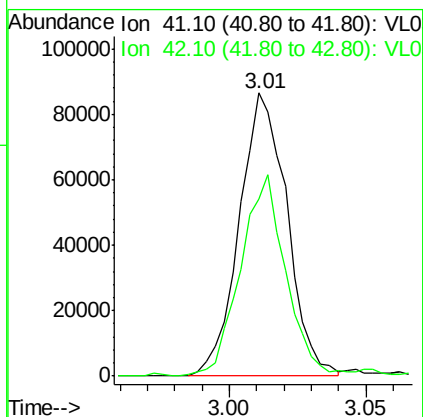
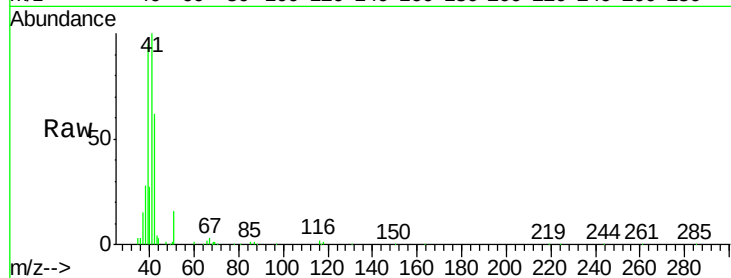
Ion Ratio Lower Upper

41 100

42 69.8 55.4 83.2

Manual Integrations
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#10

Heptane

Concen: 2.136 ppbv

RT: 8.19 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VL034049.D

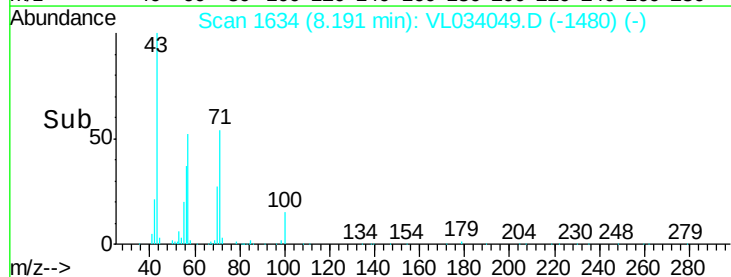
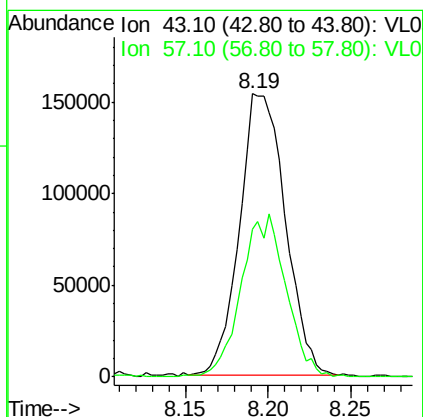
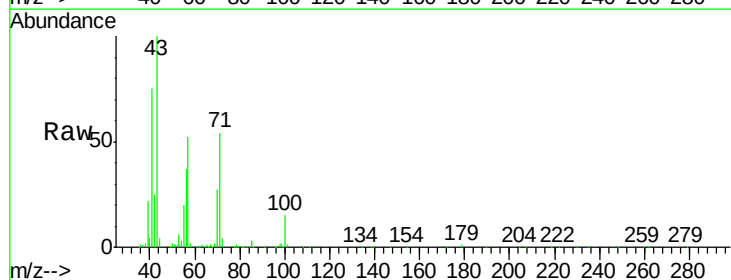
Acq: 30 Jul 2019 2:48

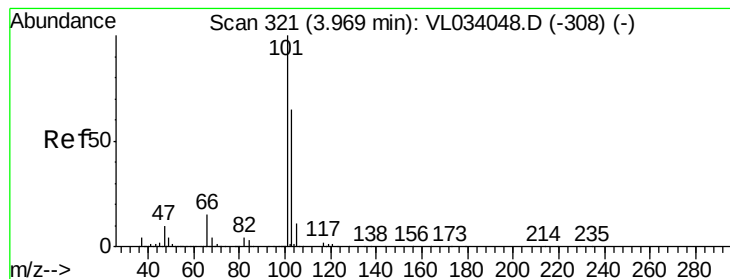
Tgt Ion: 43 Resp: 295519

Ion Ratio Lower Upper

43 100

57 56.6 44.8 67.2





#11

Trichlorofluoromethane

Concen: 1.721 ppbv

RT: 3.97 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 518137

Ion Ratio Lower Upper

101 100

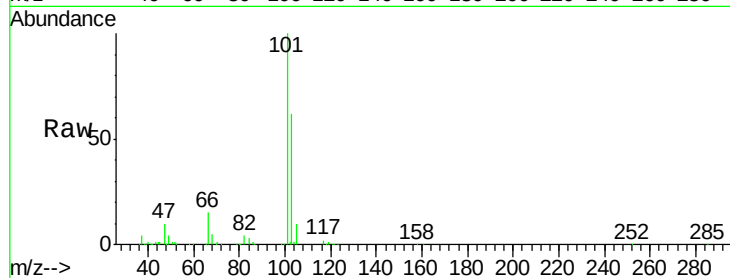
103 61.7 52.3 78.5

Manual Integrations

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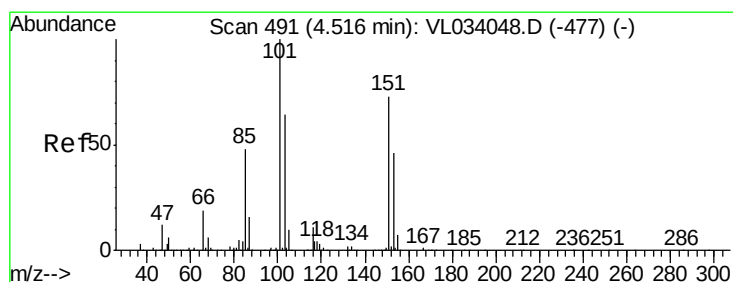
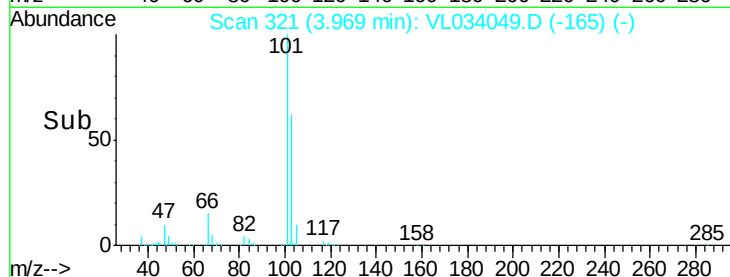
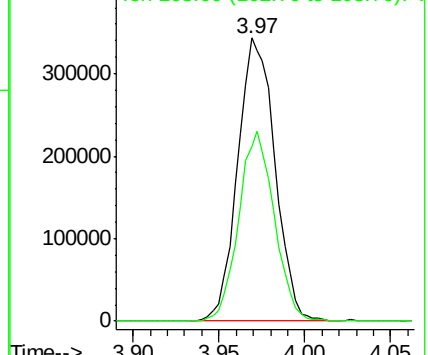
MMdadoda

8/2/2019 9:37:34 AM



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: 1.994 ppbv

RT: 4.52 min Scan# 491

Delta R.T. 0.00 min

Lab File: VL034049.D

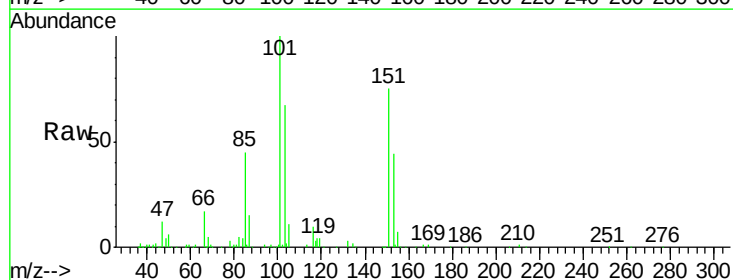
Acq: 30 Jul 2019 2:48

Tgt Ion:101 Resp: 399449

Ion Ratio Lower Upper

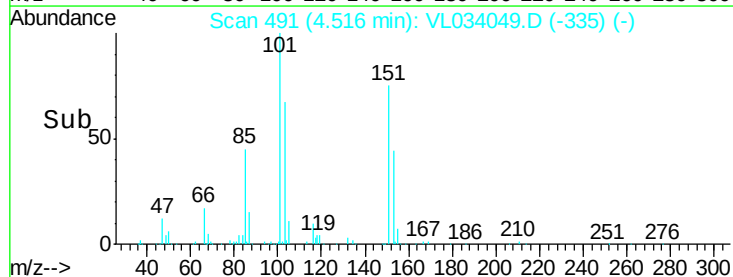
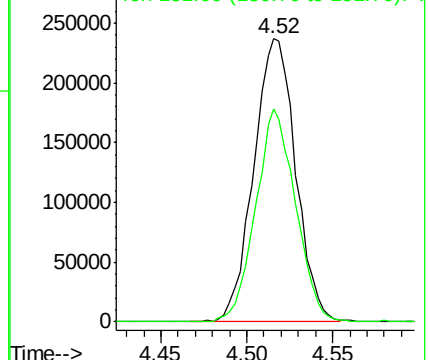
101 100

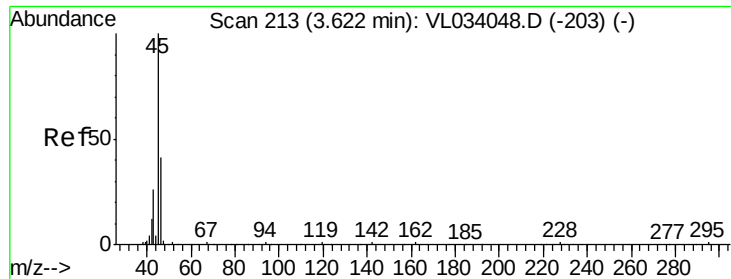
151 72.0 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





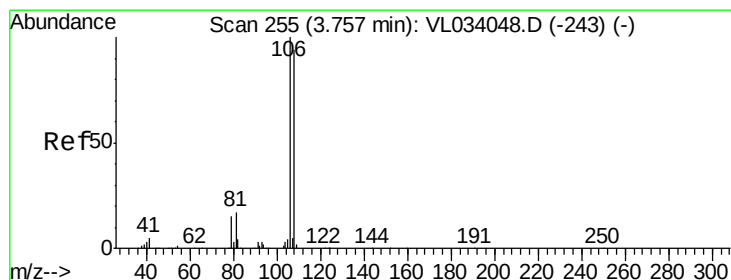
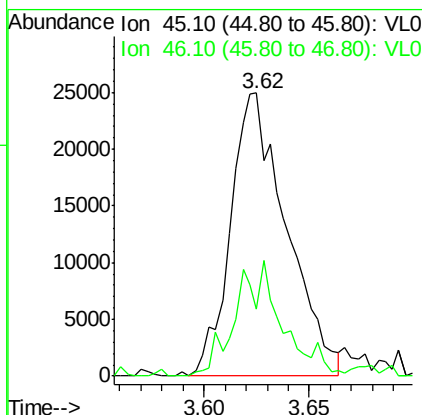
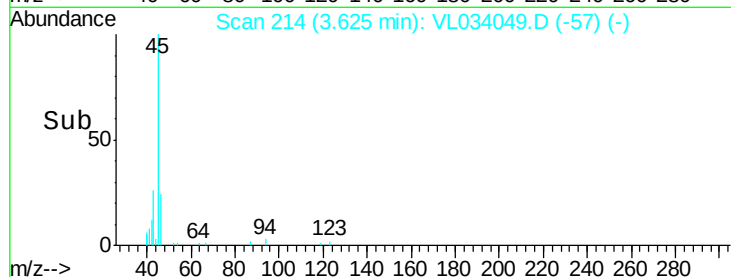
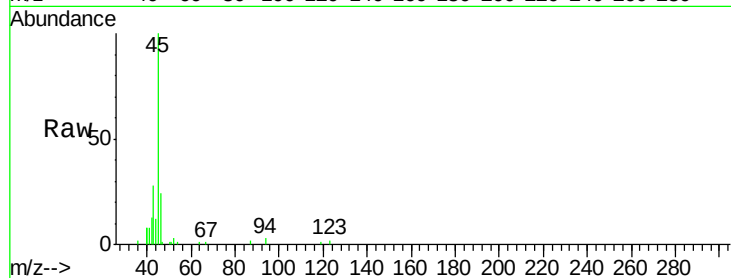
#13
Ethanol
Concen: 2.561 ppbv
RT: 3.62 min Scan# 214
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.1	15.6	62.2

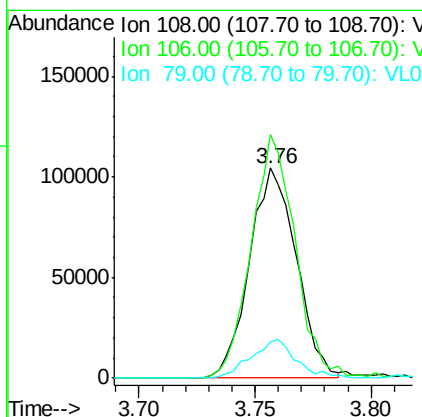
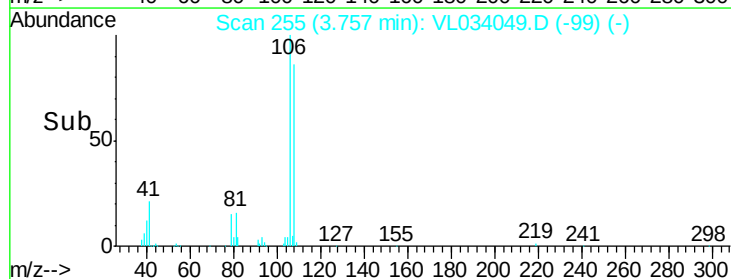
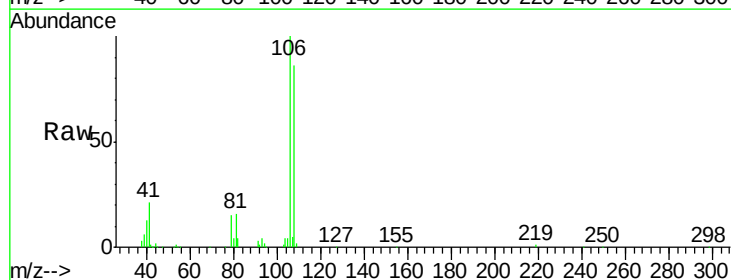
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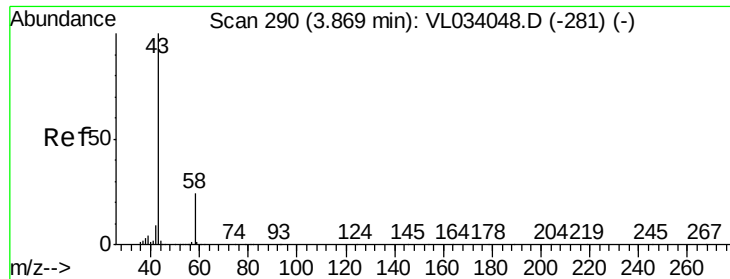
MMdadoda
8/2/2019 9:37:34 AM



#14
Bromoethene
Concen: 1.878 ppbv
RT: 3.76 min Scan# 255
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
108	100		
106	110.3	86.2	129.2
79	17.5	13.7	20.5





#15

Acetone

Concen: 1.743 ppbv

RT: 3.87 min Scan# 291

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 378747

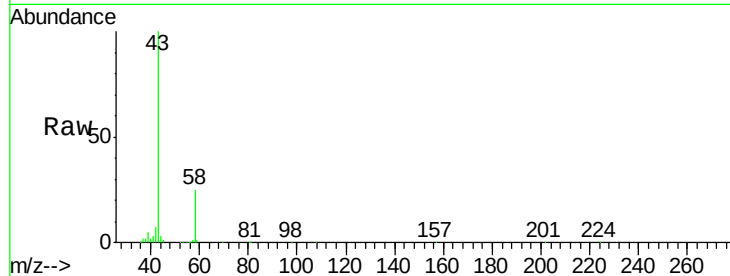
Ion Ratio Lower Upper

43 100

58 27.9 21.6 32.4

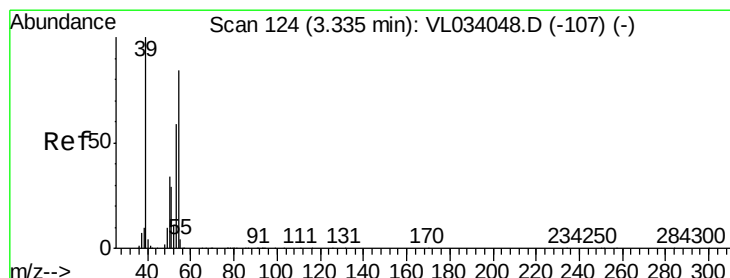
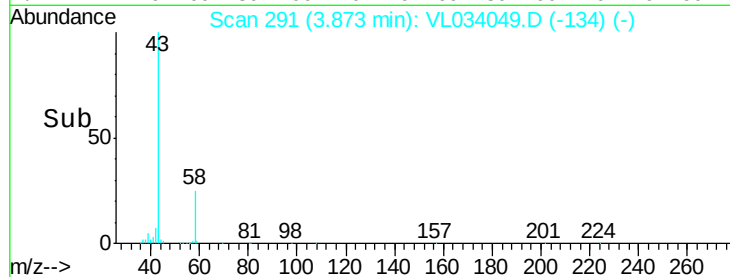
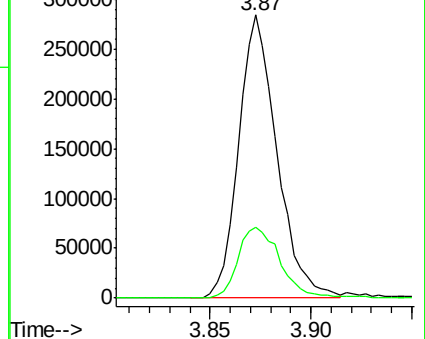
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MMdadoda
8/2/2019 9:37:34 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 1.742 ppbv

RT: 3.34 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL034049.D

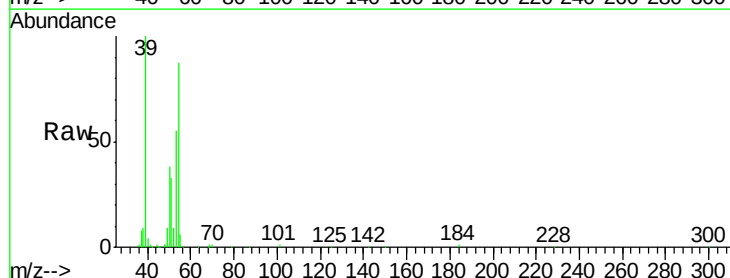
Acq: 30 Jul 2019 2:48

Tgt Ion: 39 Resp: 136913

Ion Ratio Lower Upper

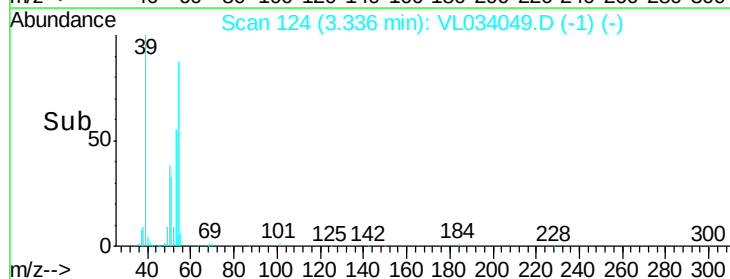
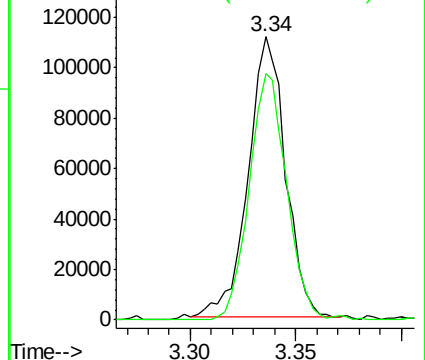
39 100

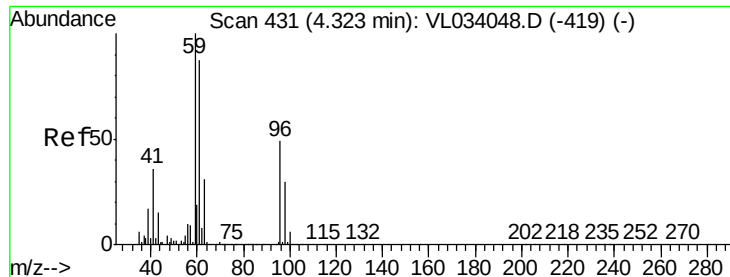
54 88.6 68.9 103.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

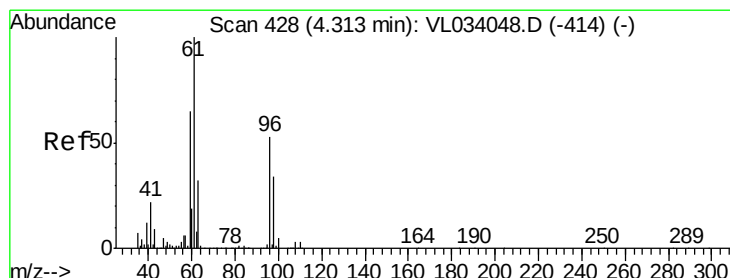
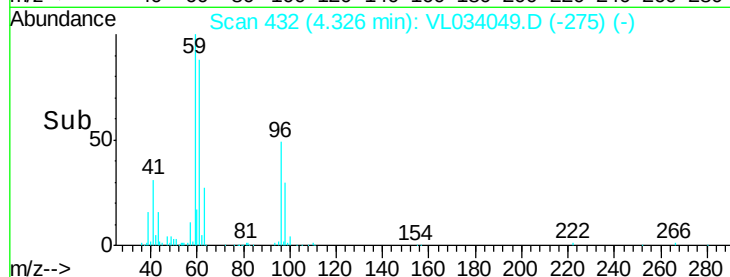
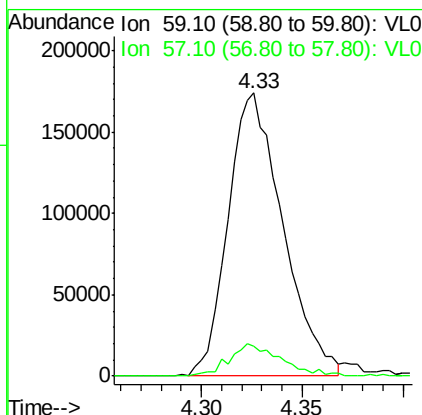
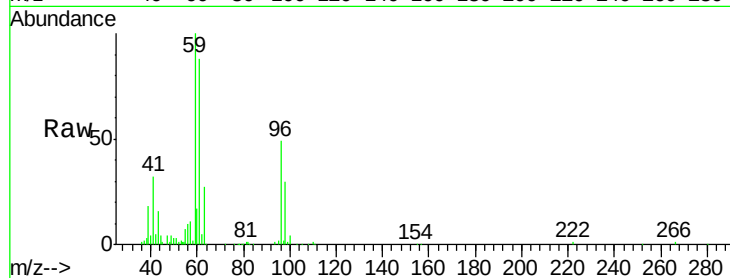
tert-Butyl alcohol
Concen: 1.981 ppbv
RT: 4.33 min Scan# 432
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.2	12.4

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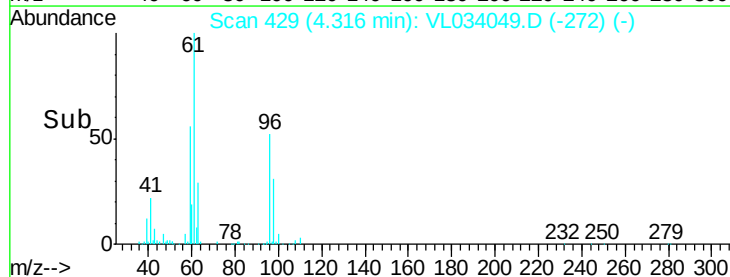
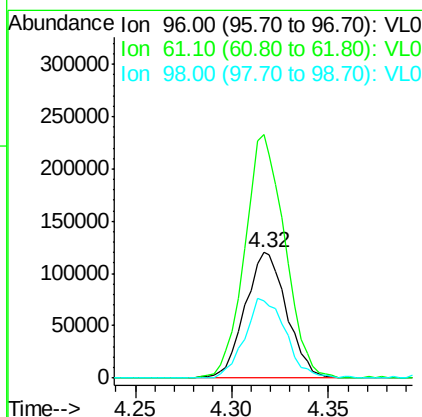
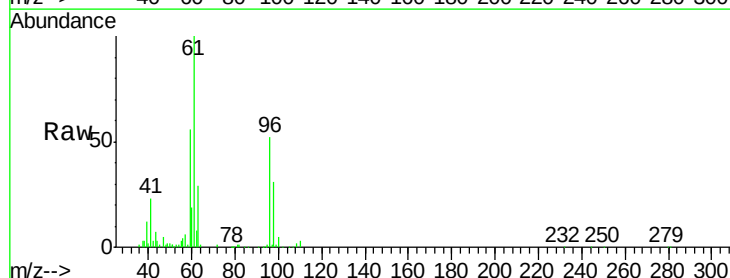
MMdadoda
8/2/2019 9:37:34 AM

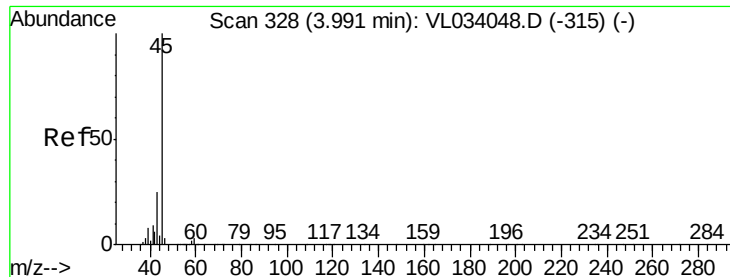


#18

1,1-Dichloroethene
Concen: 1.994 ppbv
RT: 4.32 min Scan# 429
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	194.3	151.5	227.3
98	61.2	52.2	78.2





#19

Isopropyl Alcohol

Concen: 1.684 ppbv m

RT: 3.99 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 245991

Ion Ratio Lower Upper

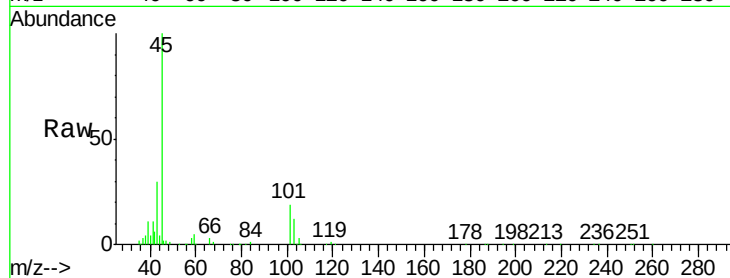
45 100

58 3.7 1.8 2.6#

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8/2/2019 9:37:34 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

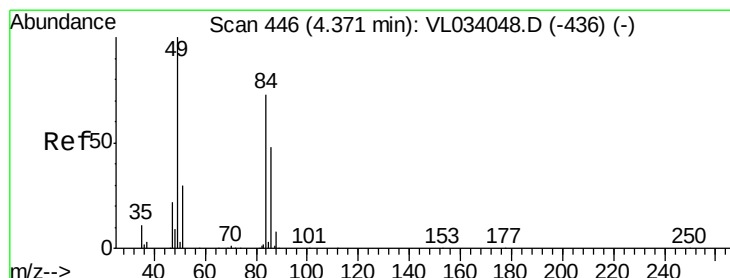
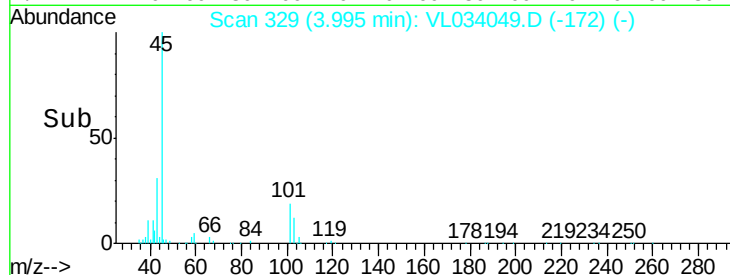
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 1.712 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion: 84 Resp: 153196

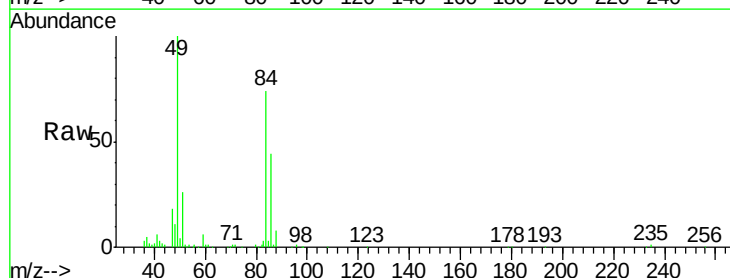
Ion Ratio Lower Upper

84 100

49 133.7 109.6 164.4

51 35.5 33.4 50.2

86 59.3 52.6 78.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

200000

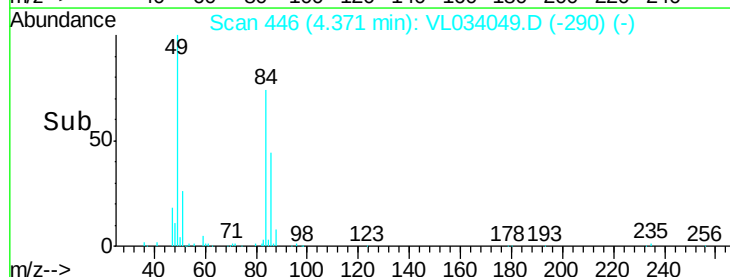
150000

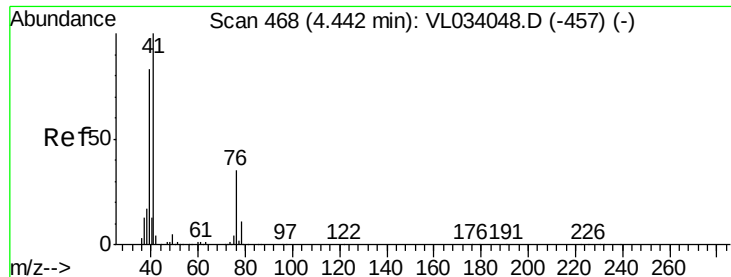
100000

50000

0

Time-->





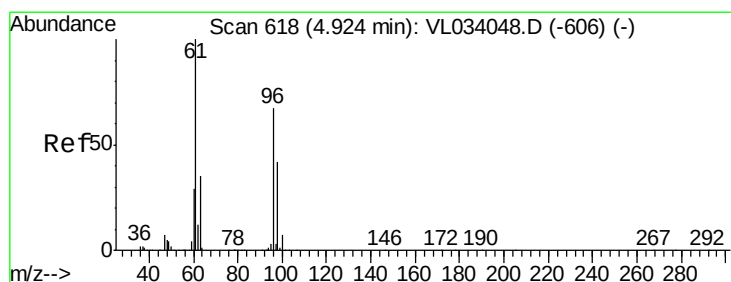
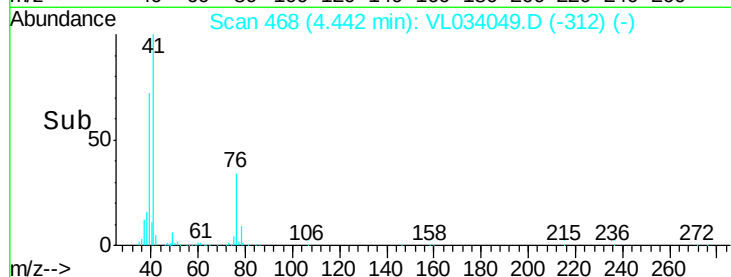
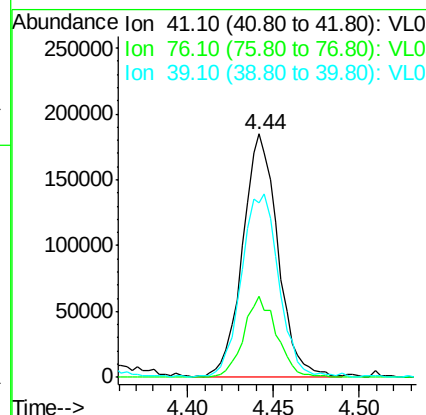
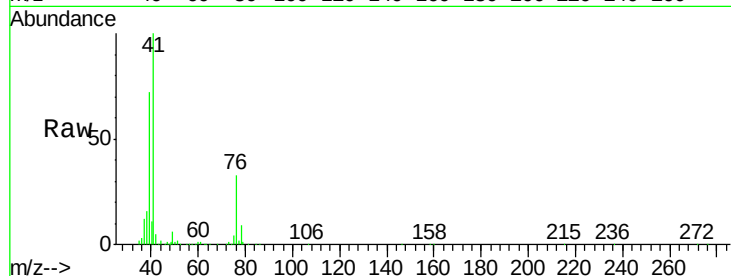
#21
Allvl Chloride
Concen: 2.058 ppbv
RT: 4.44 min Scan# 468
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.1	26.1	39.1
39	80.7	65.0	97.6

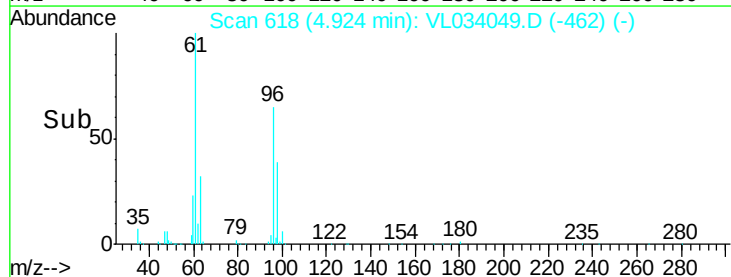
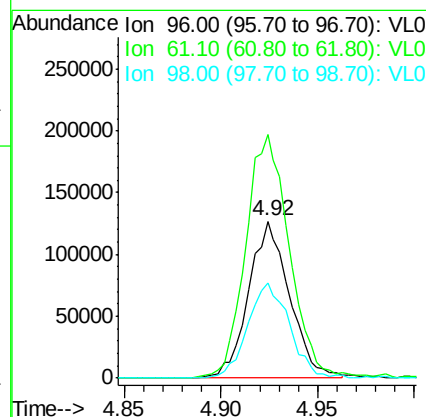
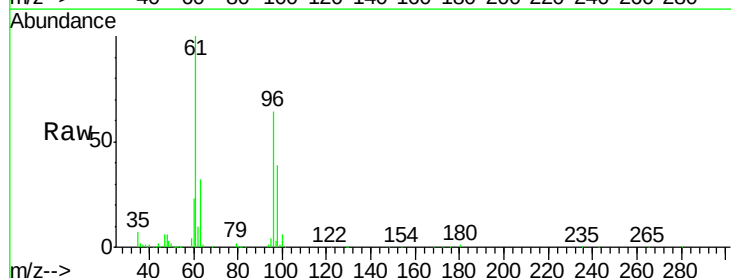
Manual Integrations
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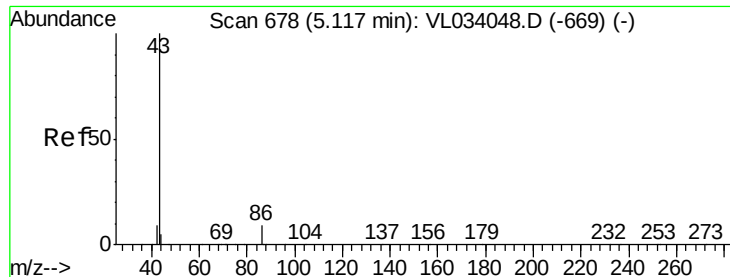
MMDadoda
8/2/2019 9:37:34 AM



#22
trans-1,2-Dichloroethene
Concen: 2.185 ppbv
RT: 4.92 min Scan# 618
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.3	118.6	177.8
98	60.3	49.7	74.5





#23

Vinyl Acetate

Concen: 2.180 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

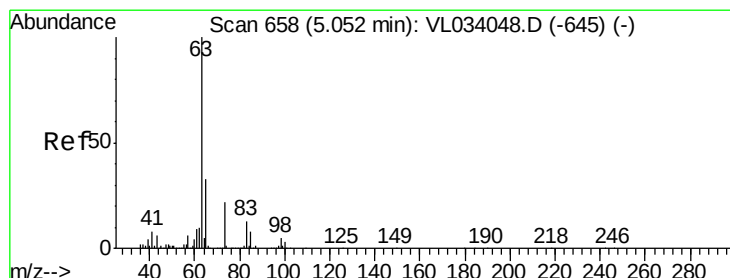
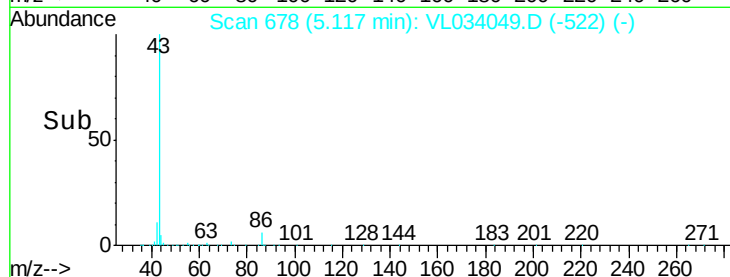
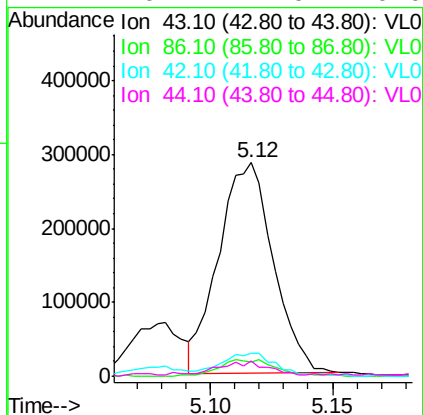
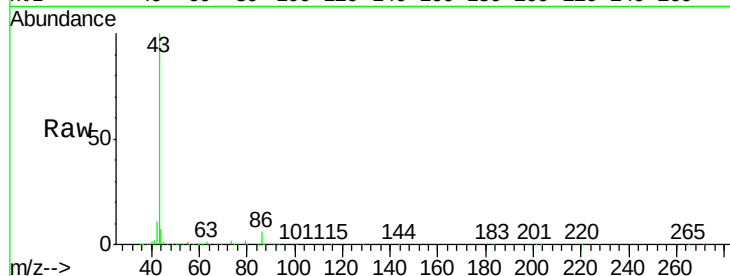
ClientSampleId :

VSTDIC002

Tot Ion	43	Resp	445554
Ion Ratio	Lower	Upper	
43	100		
86	5.9	6.5	9.7#
42	10.6	8.3	12.5
44	6.4	4.0	6.0#

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MMdadoda
8/2/2019 9:37:34 AM



#24

1,1-Dichloroethane

Concen: 2.115 ppbv

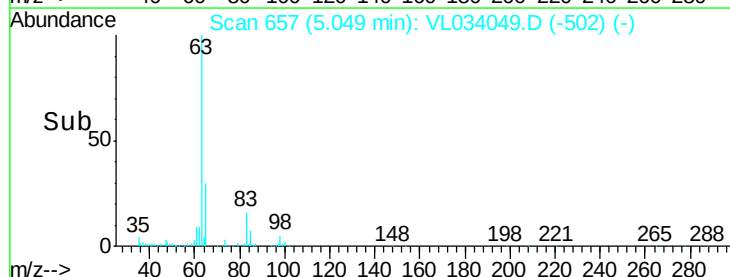
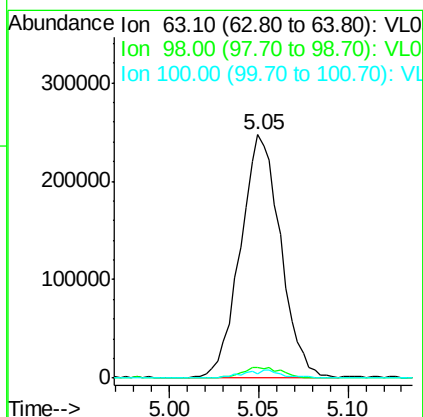
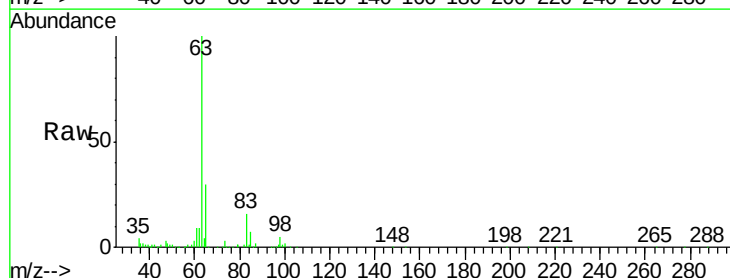
RT: 5.05 min Scan# 657

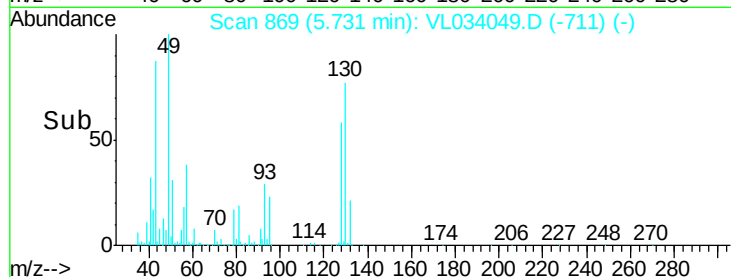
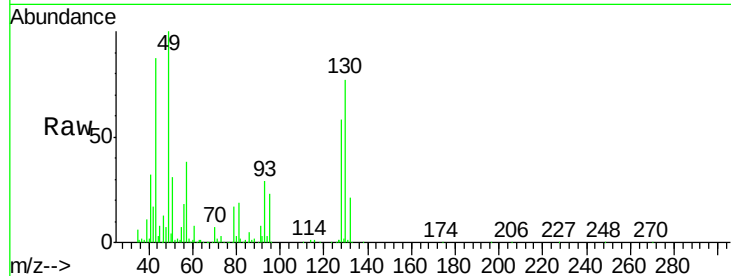
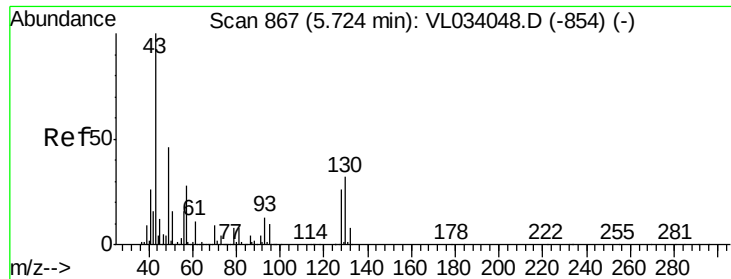
Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

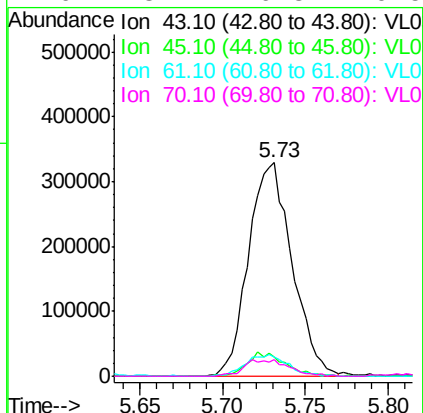
Tgt Ion	63	Resp	386950
Ion Ratio	Lower	Upper	
63	100		
98	4.6	2.4	7.2
100	1.7	1.3	3.9





#25
Ethyl Acetate
Concen: 2.139 ppbv
RT: 5.73 min Scan# 869
Delta R.T. 0.01 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

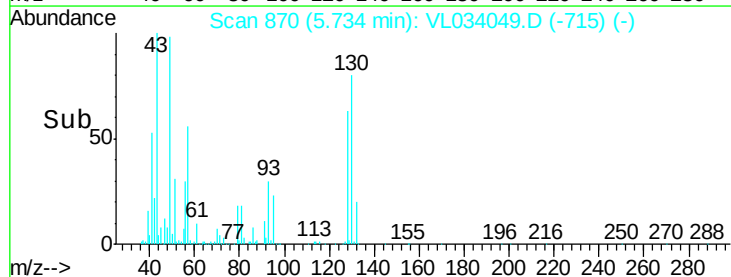
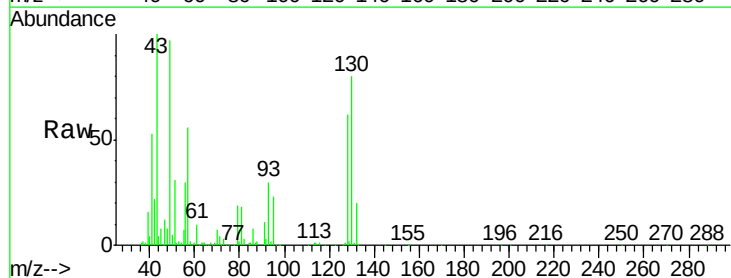
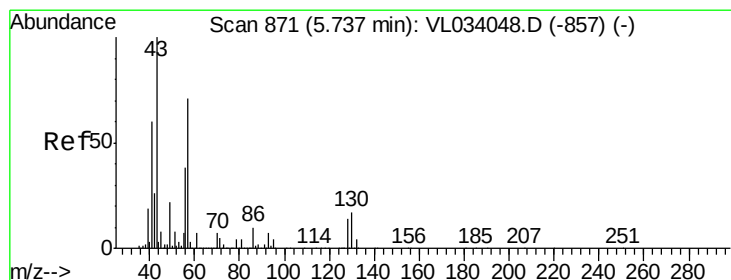
Tot Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	10.1	8.1	12.1
70	8.1	6.3	9.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

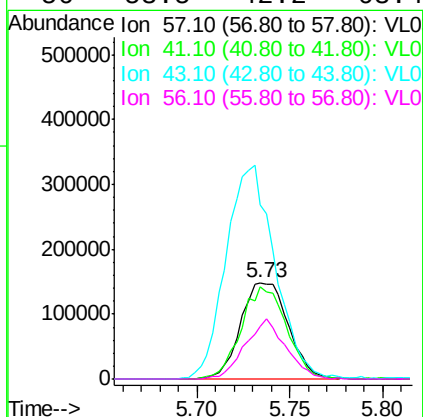
Manual Integrations
APPROVED

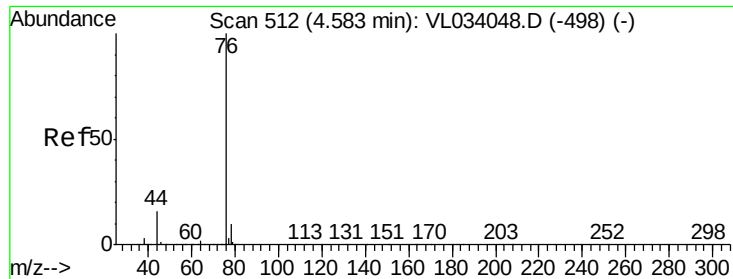
MMdadoda
8/2/2019 9:37:34 AM



#26
Hexane
Concen: 2.060 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.9	69.0	103.6
43	228.3	176.6	264.8
56	53.5	42.2	63.4





#27

Carbon Disulfide

Concen: 2.014 ppbv

RT: 4.58 min Scan# 512

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

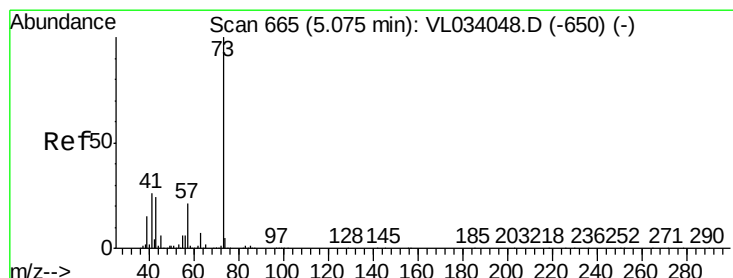
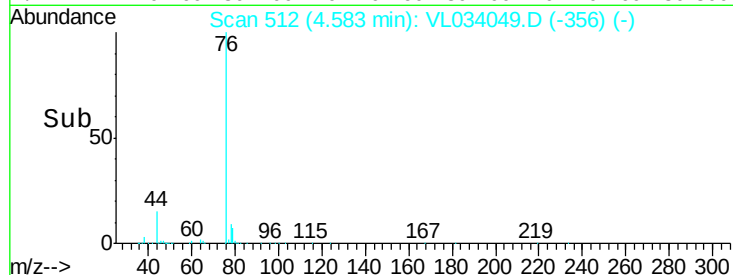
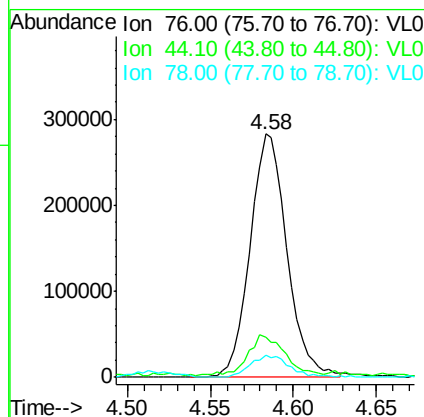
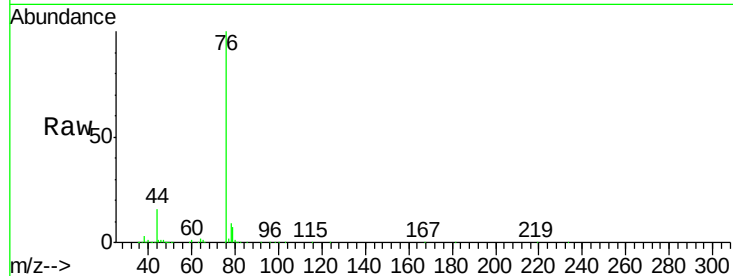
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	438361
Ion Ratio	Lower	Upper	
76	100		
44	19.0	13.0	19.4
78	9.8	7.7	11.5

Manual Integrations
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MMdadoda
8/2/2019 9:37:34 AM



#28

Methyl tert-Butyl Ether

Concen: 2.179 ppbv

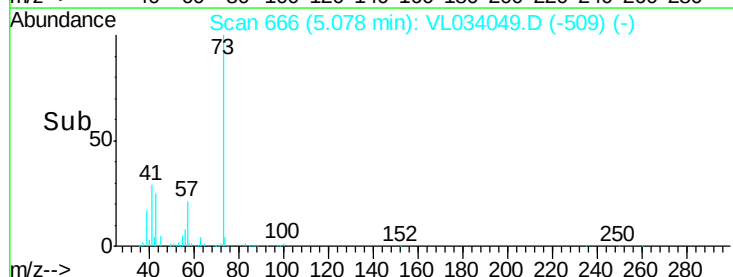
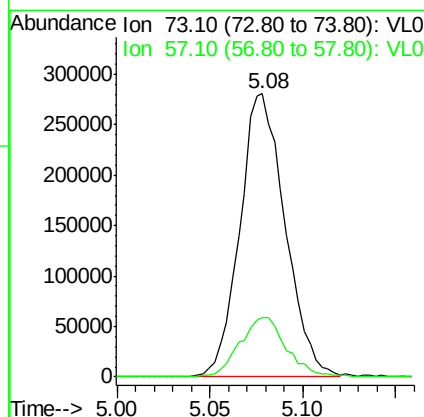
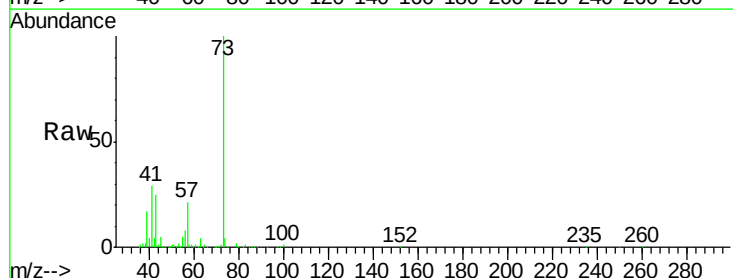
RT: 5.08 min Scan# 666

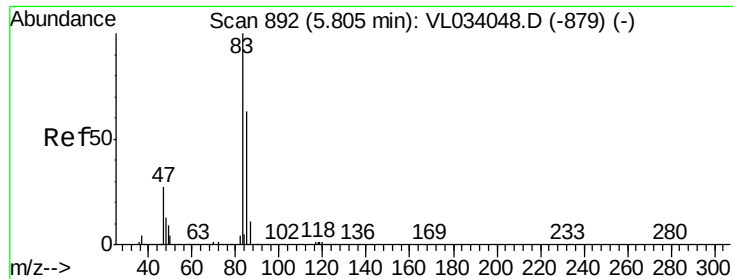
Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion:	73	Resp:	475286
Ion Ratio	Lower	Upper	
73	100		
57	21.7	17.2	25.8





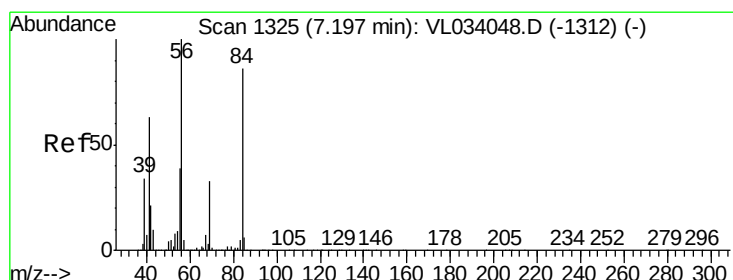
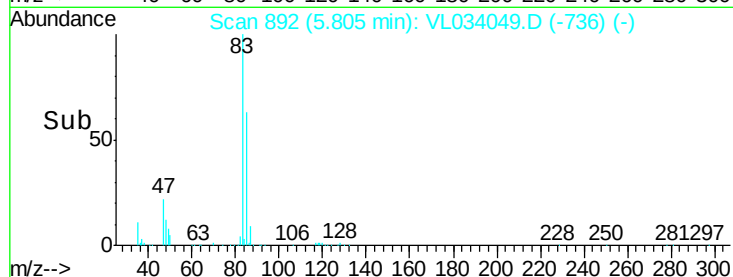
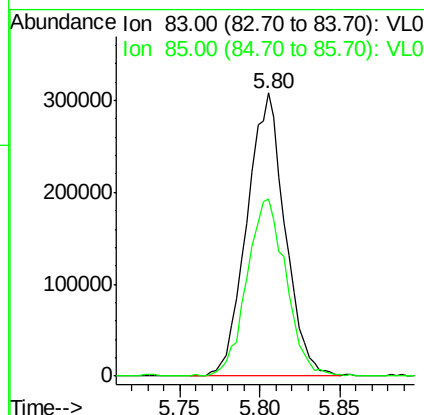
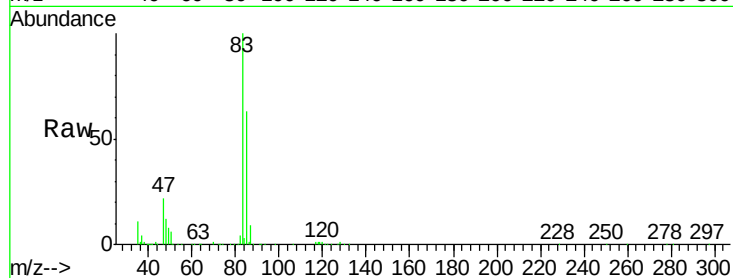
#29
Chloroform
Concen: 2.064 ppbv
RT: 5.80 min Scan# 892
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	500544
Ion Ratio	100	Lower	Upper
83	100		
85	62.3	50.2	75.4

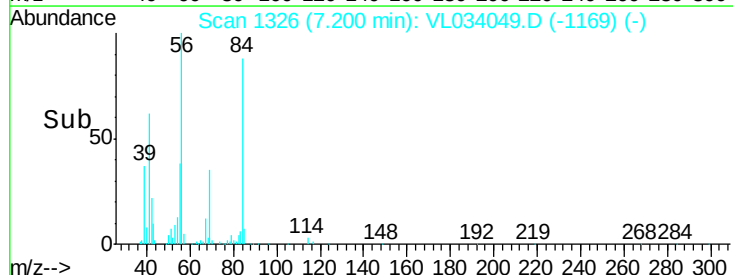
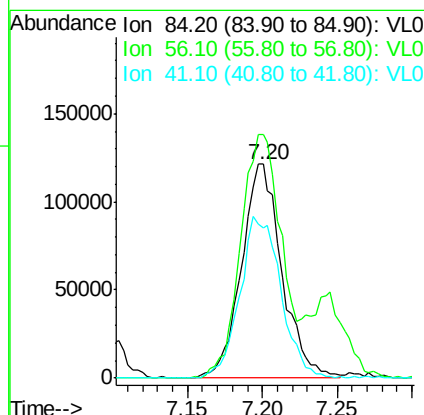
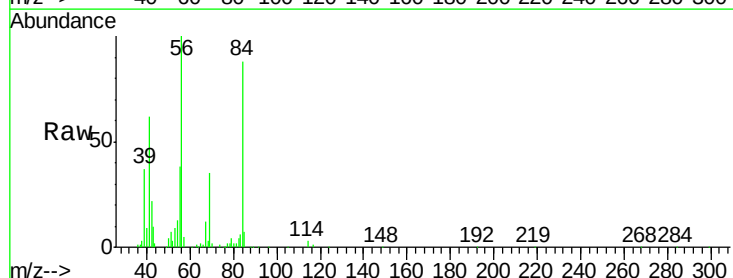
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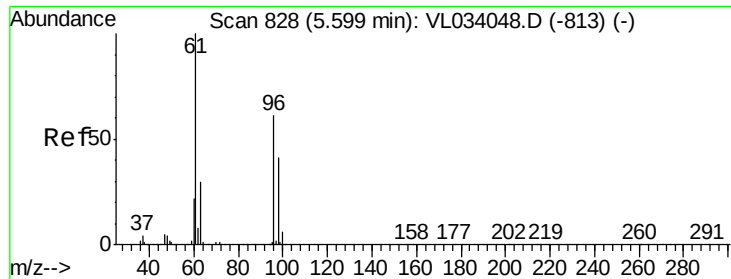
MMdadoda
8/2/2019 9:37:34 AM



#30
Cyclohexane
Concen: 2.152 ppbv
RT: 7.20 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	84	Resp	227826
Ion Ratio	100	Lower	Upper
84	100		
56	151.6	101.7	152.5
41	76.3	59.4	89.0





#31

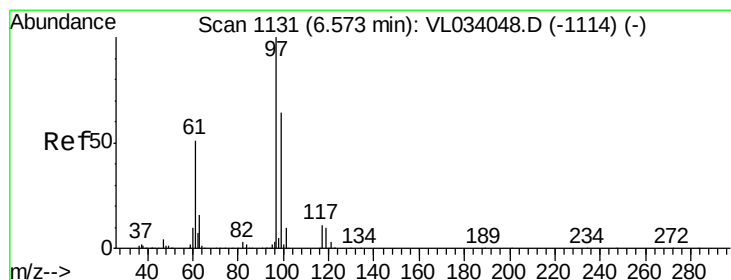
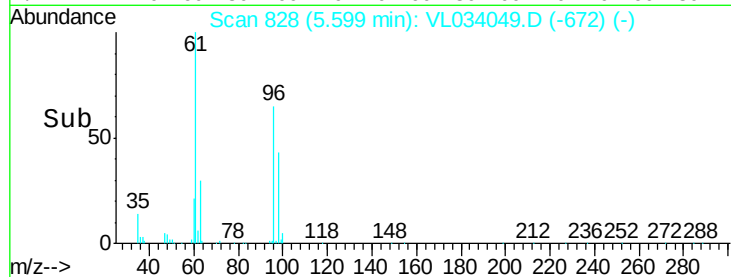
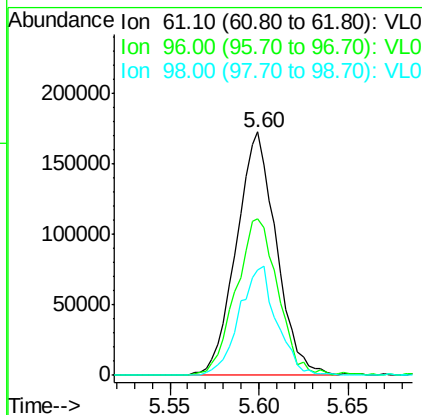
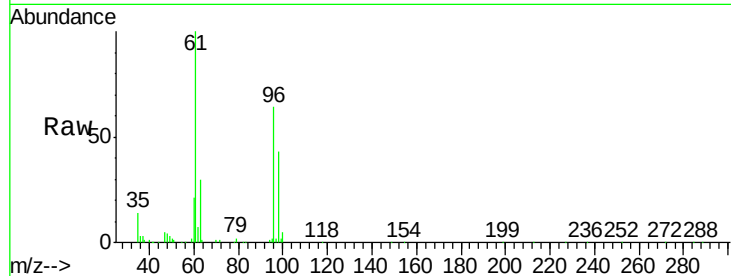
cis-1,2-Dichloroethene
Concen: 2.169 ppbv
RT: 5.60 min Scan# 828
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.0	49.1	73.7
98	43.2	32.5	48.7

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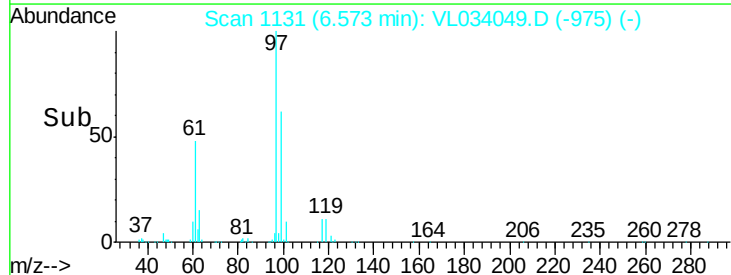
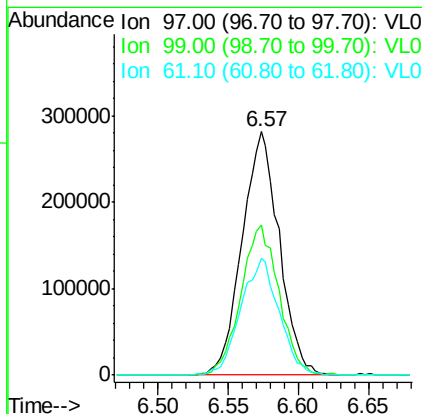
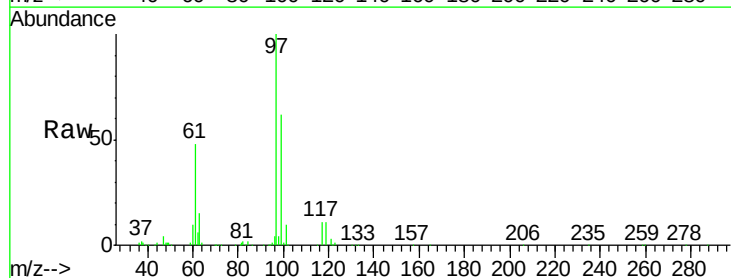
MMdadoda
8/2/2019 9:37:34 AM

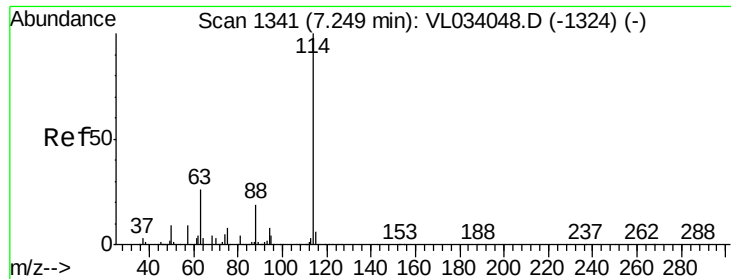


#32

1,1,1-Trichloroethane
Concen: 2.115 ppbv
RT: 6.57 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.0	76.6
61	49.5	39.5	59.3





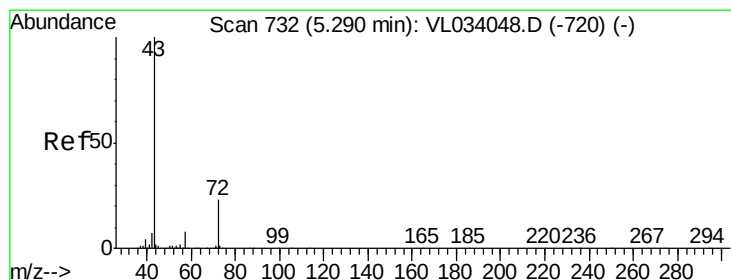
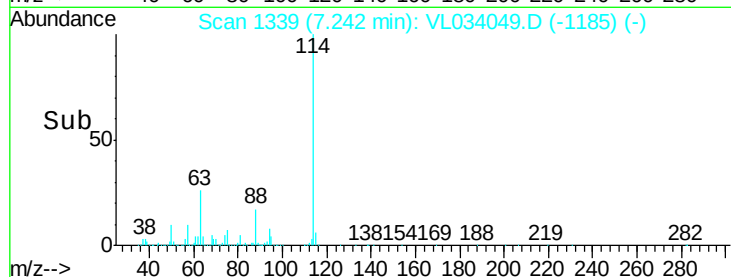
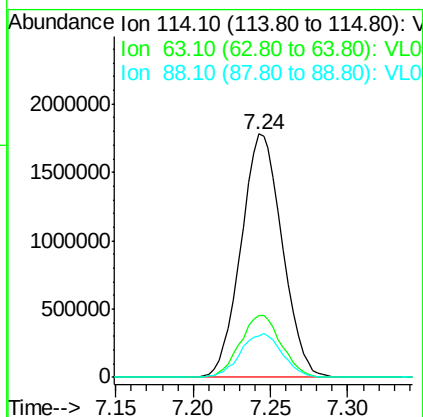
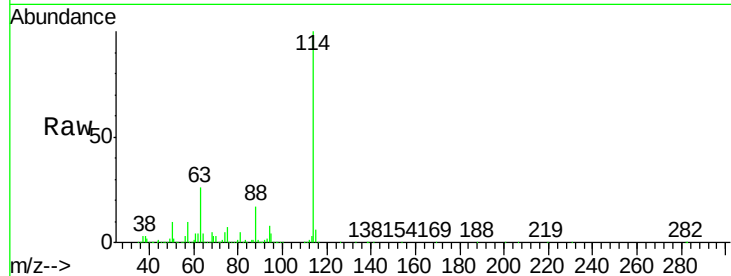
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.0	31.6
88	18.3	14.7	22.1

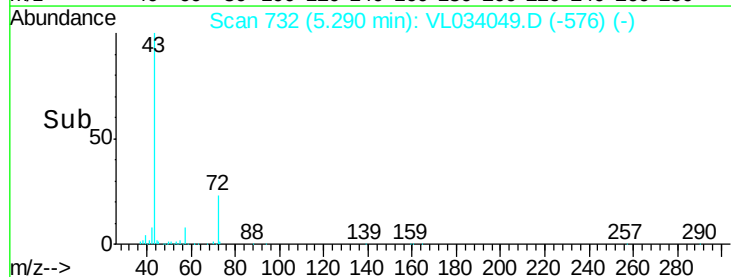
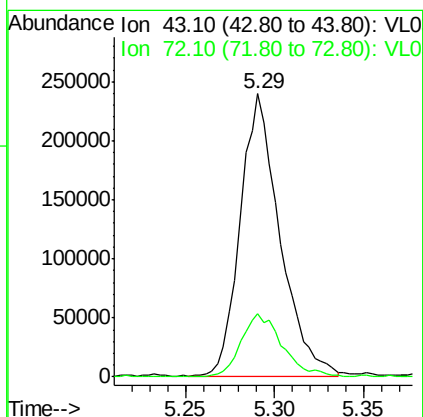
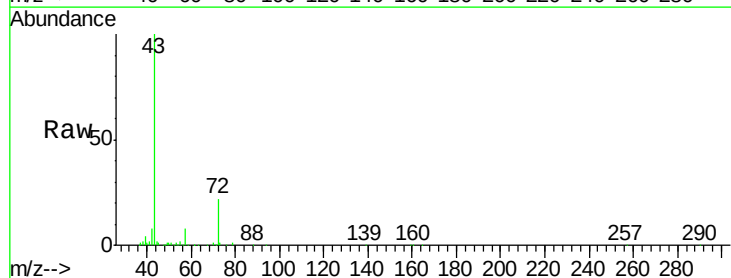
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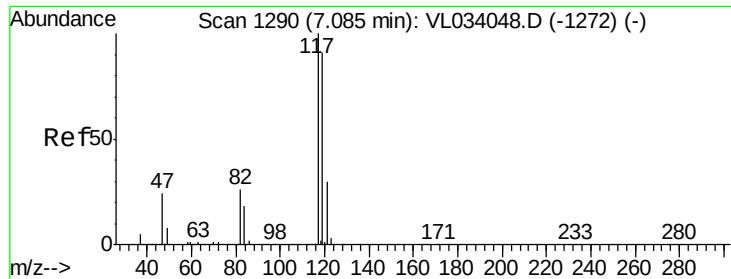
MMdadoda
 8/2/2019 9:37:34 AM



#34
 2-Butanone
 Concen: 2.258 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.2	30.4





#35

Carbon Tetrachloride

Concen: 2.149 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

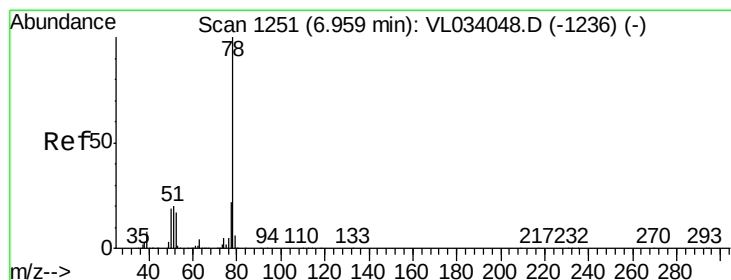
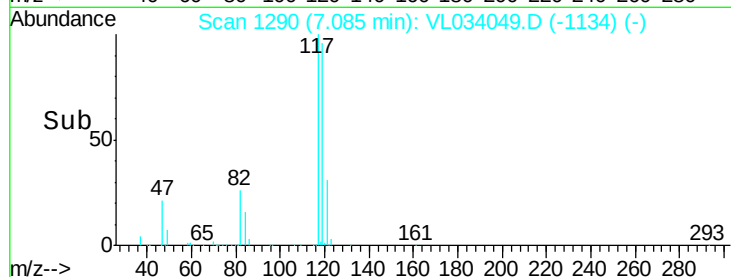
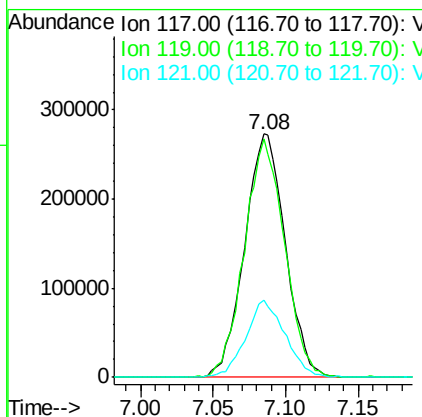
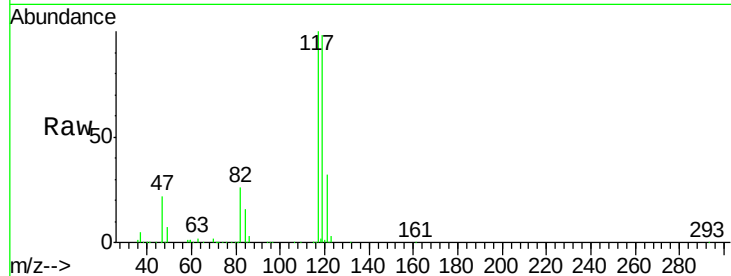
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	534163
Ion Ratio	Lower	Upper	
117	100		
119	97.9	73.2	109.8
121	31.7	24.0	36.0

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#36

Benzene

Concen: 2.315 ppbv

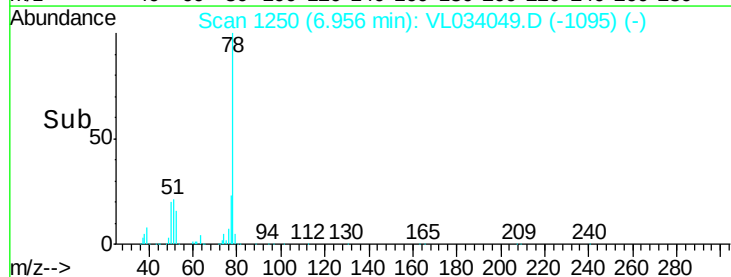
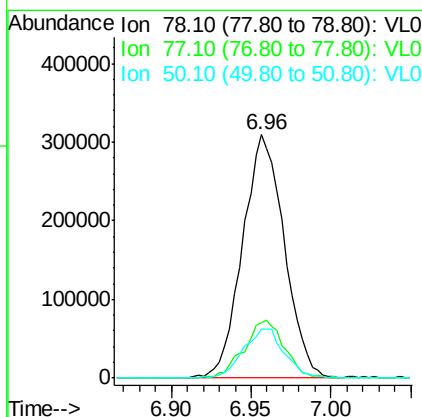
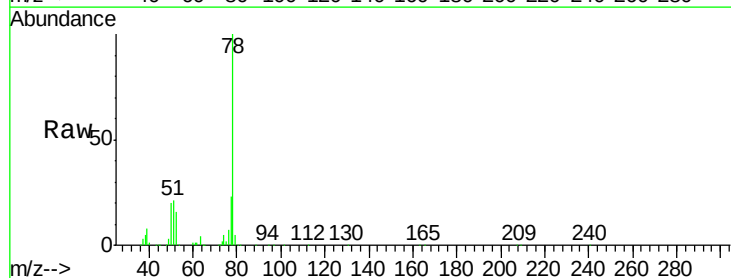
RT: 6.96 min Scan# 1250

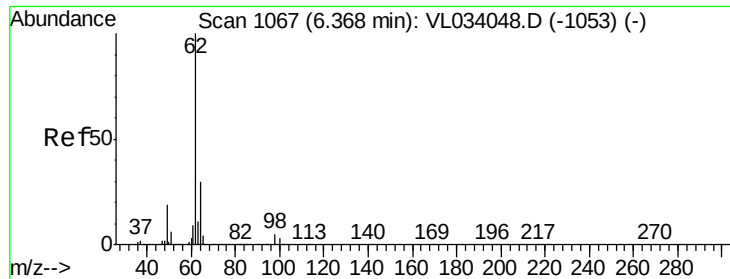
Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion:	78	Resp:	552861
Ion Ratio	Lower	Upper	
78	100		
77	22.5	17.9	26.9
50	20.3	14.9	22.3





#37

1,2-Dichloroethane

Concen: 2.186 ppbv

RT: 6.37 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 388810

Ion Ratio Lower Upper

62 100

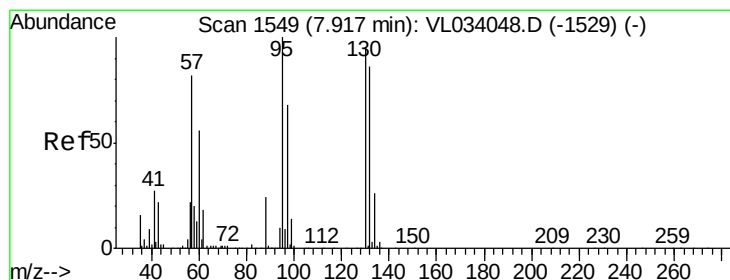
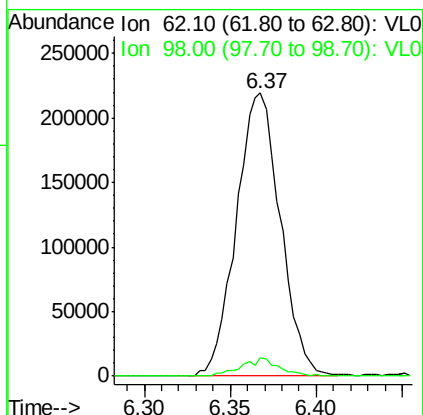
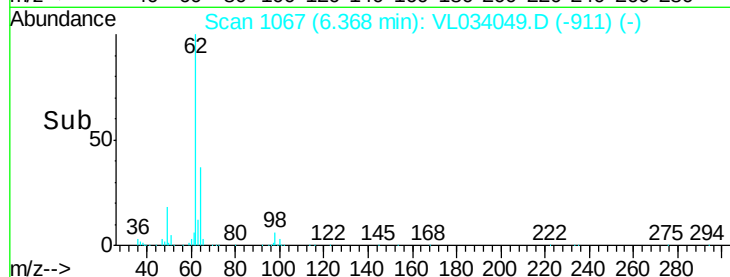
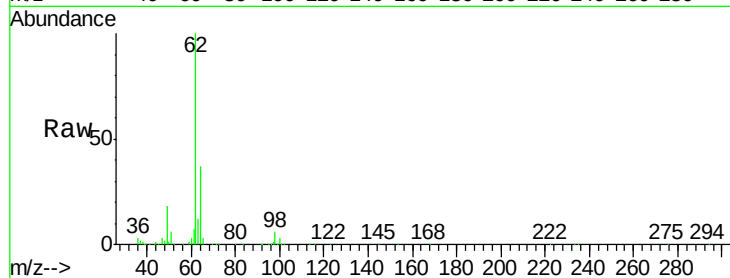
98 5.4 4.2 6.2

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#38

Trichloroethene

Concen: 2.219 ppbv m

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion: 130 Resp: 241328

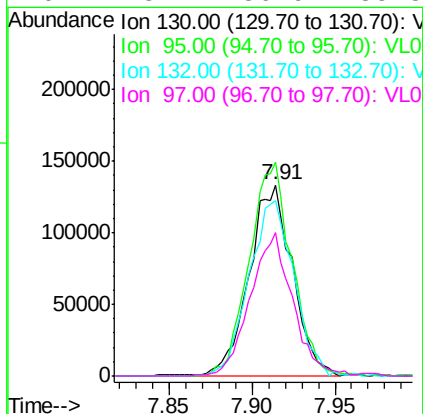
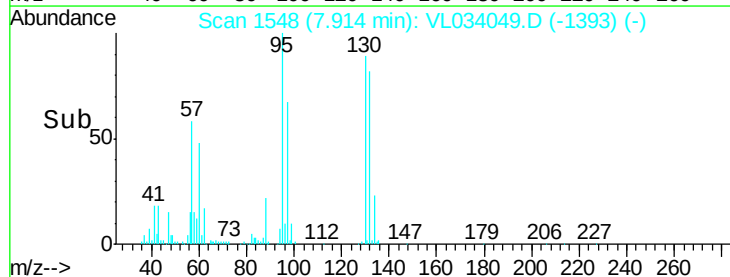
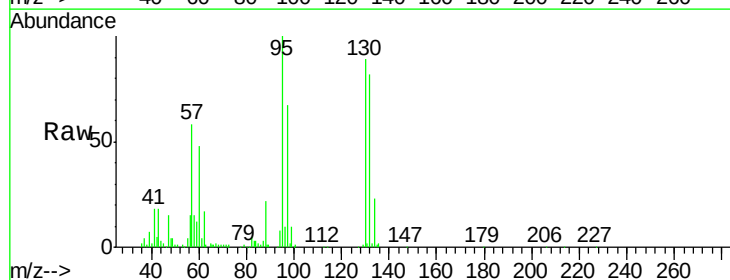
Ion Ratio Lower Upper

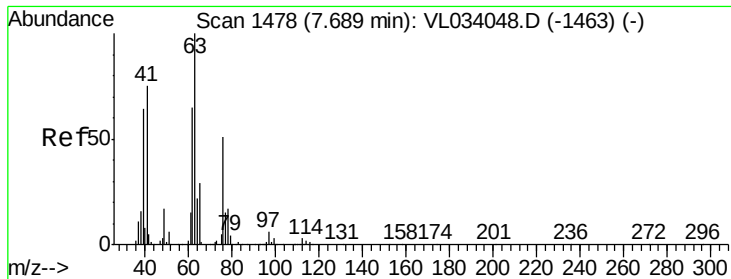
130 100

95 111.8 84.1 126.1

132 91.9 72.7 109.1

97 75.2 56.9 85.3





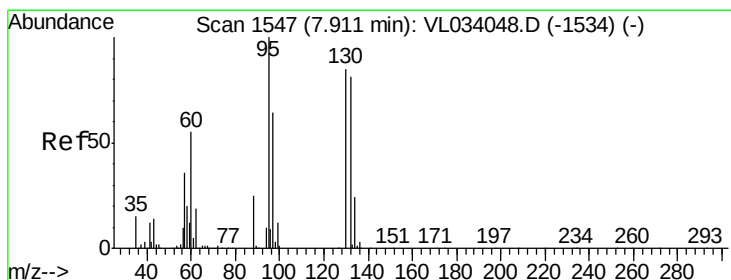
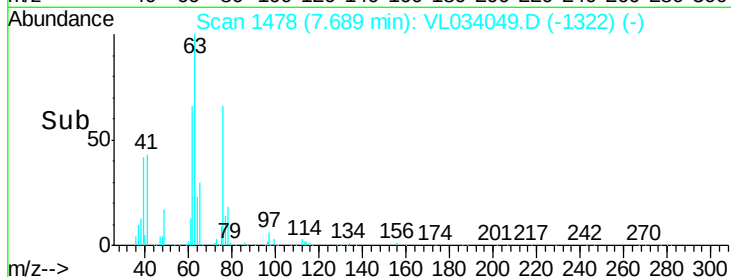
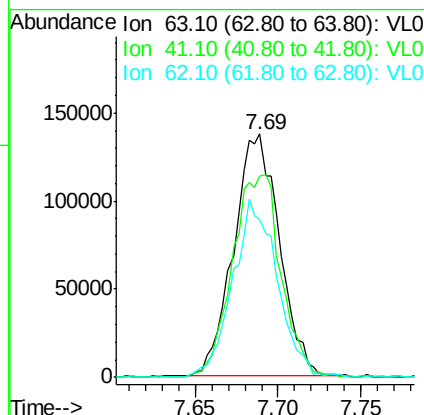
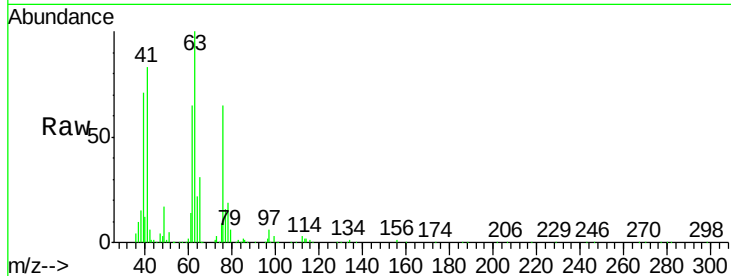
#39
 1,2-Dichloropropane
 Concen: 2.935 ppbv
 RT: 7.69 min Scan# 1478
 Delta R.T. 0.00 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	63	Resp:	264926
Ion Ratio	Lower	Upper	
63	100		
41	83.4	59.8	89.8
62	63.9	52.2	78.2

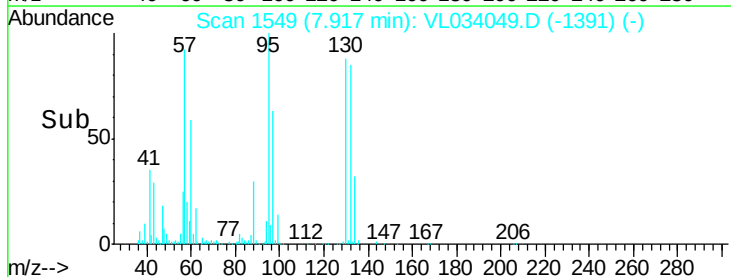
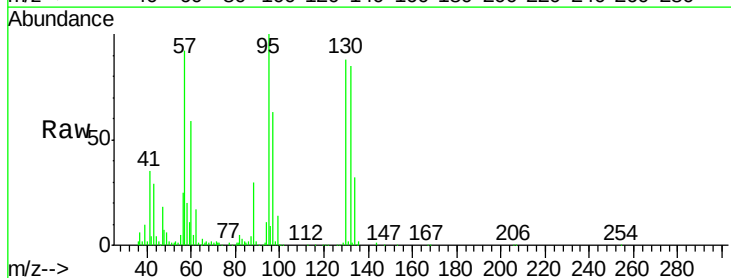
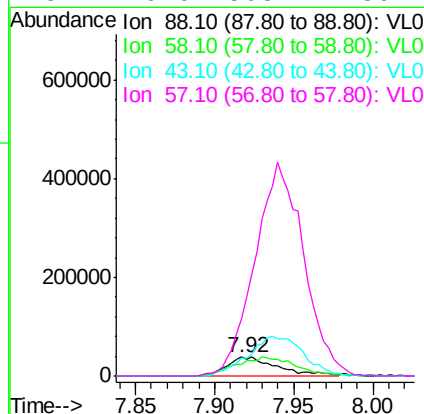
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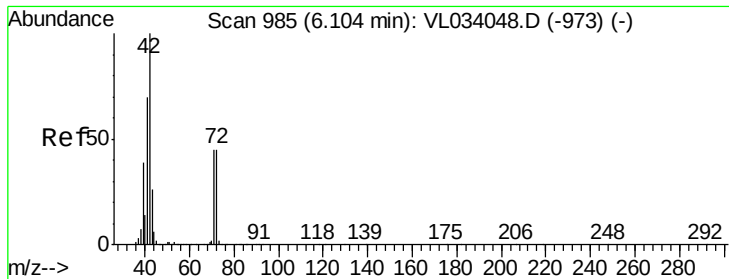
MMdadoda
 8/2/2019 9:37:34 AM



#40
 1,4-Dioxane
 Concen: 2.099 ppbv m
 RT: 7.92 min Scan# 1549
 Delta R.T. 0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Tgt Ion:	88	Resp:	86377
Ion Ratio	Lower	Upper	
88	100		
58	0.0	99.6	149.4#
43	0.0	189.2	283.8#
57	0.0	868.4	1302.6#





#41

Tetrahydrofuran

Concen: 2.350 ppbv

RT: 6.11 min Scan# 988

Delta R.T. 0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

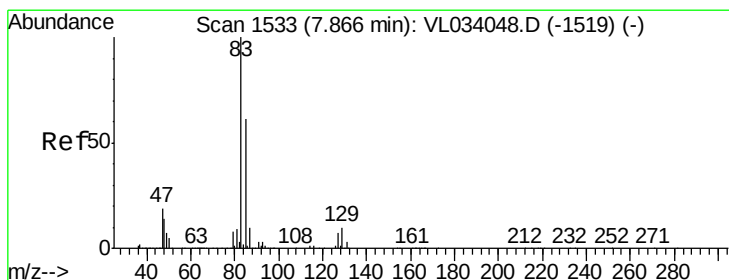
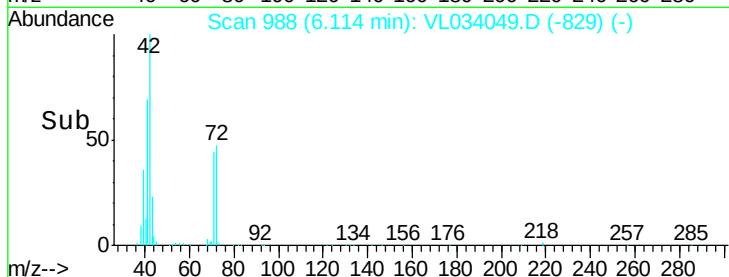
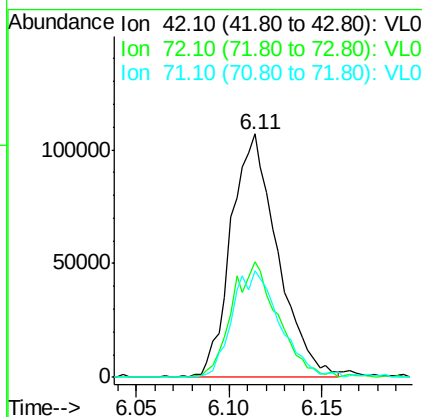
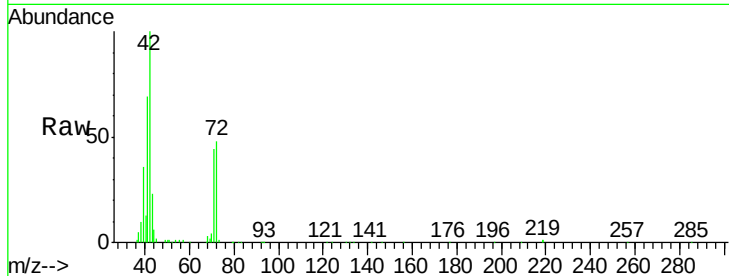
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.4	36.9	55.3
71	45.9	36.6	54.8

Manual Integrations
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MMdadoda
8/2/2019 9:37:34 AM



#42

Bromodichloromethane

Concen: 2.171 ppbv

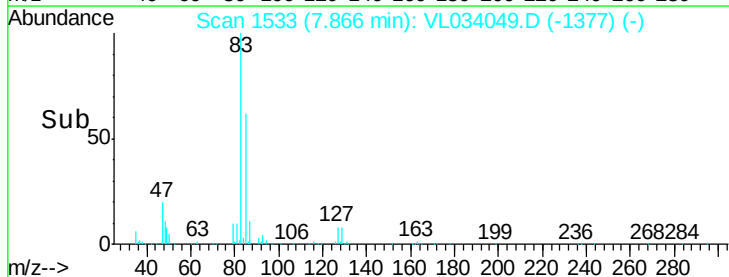
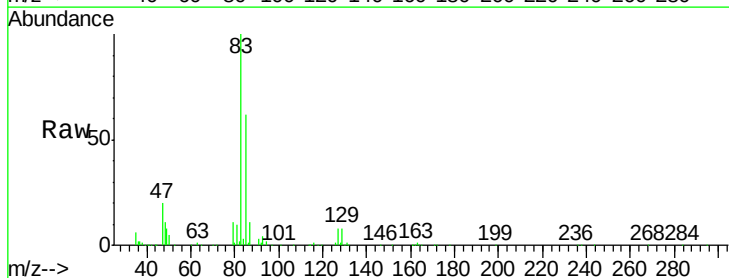
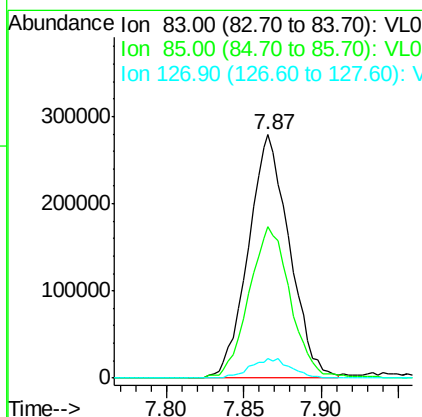
RT: 7.87 min Scan# 1533

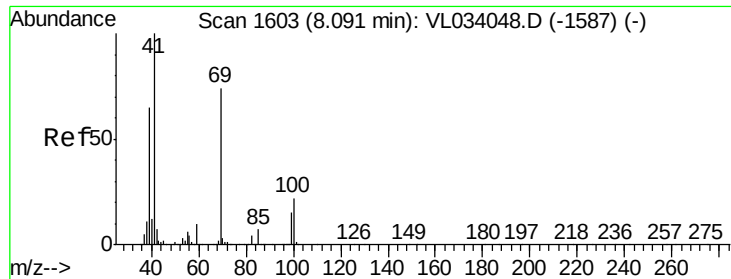
Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.0	48.6	73.0
127	8.3	5.5	8.3#





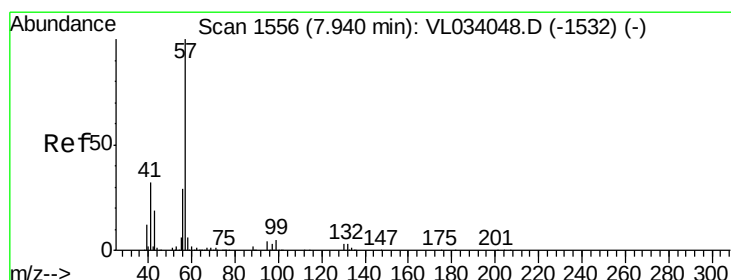
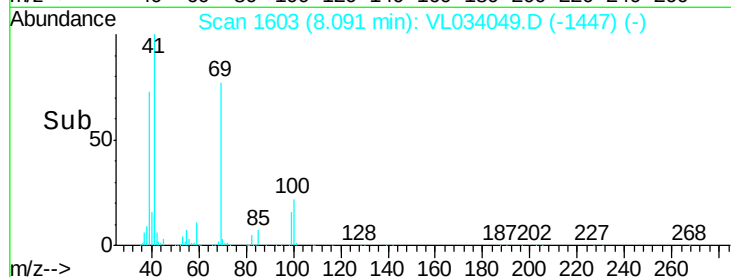
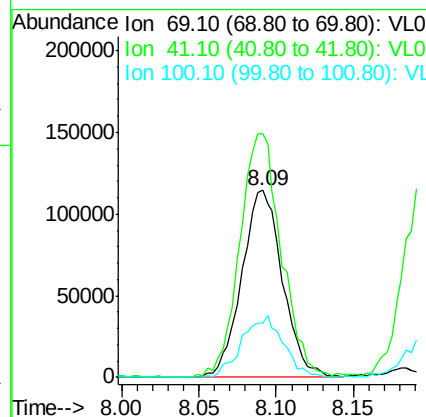
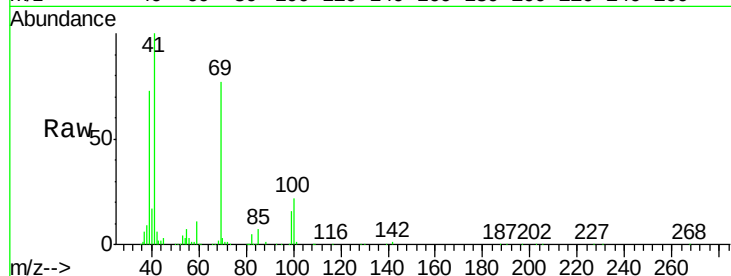
#43
Methyl Methacrylate
Concen: 2.317 ppbv
RT: 8.09 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	133.8	112.8	169.2
100	33.4	26.1	39.1

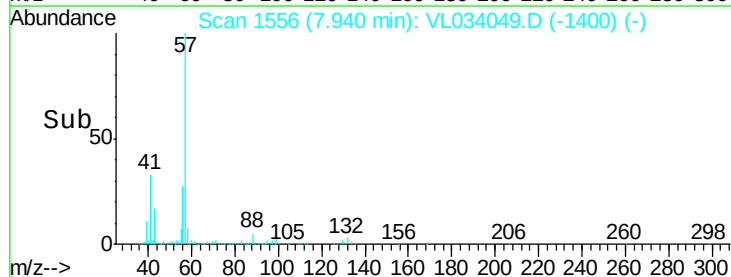
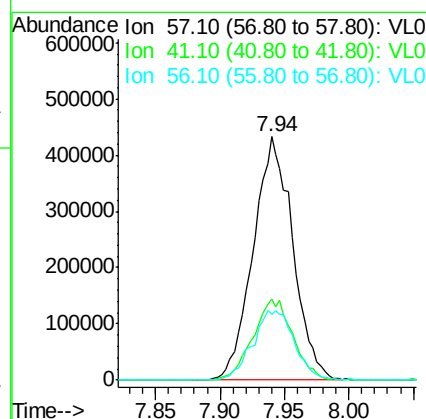
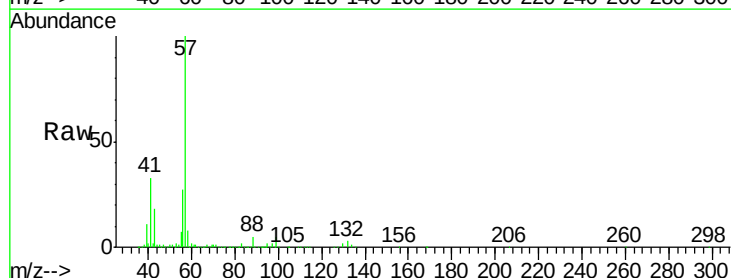
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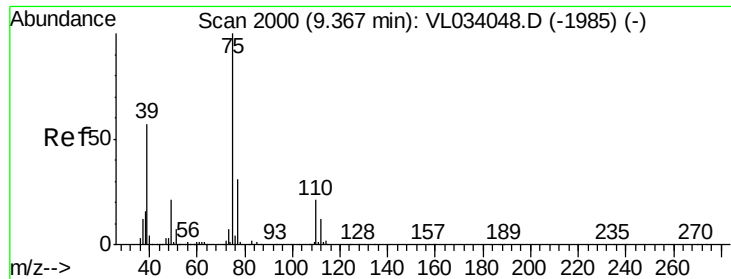
MMdadoda
8/2/2019 9:37:34 AM



#44
2,2,4-Trimethylpentane
Concen: 2.239 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.6	26.2	39.2
56	30.2	24.2	36.2





#45

t-1,3-Dichloropropene

Concen: 2.222 ppbv

RT: 9.36 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 259888

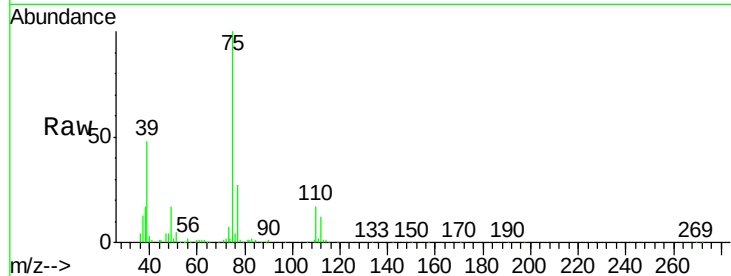
Ion Ratio Lower Upper

75 100

77 27.3 24.6 37.0

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.36

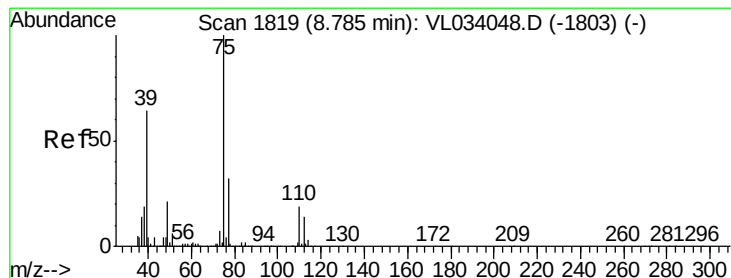
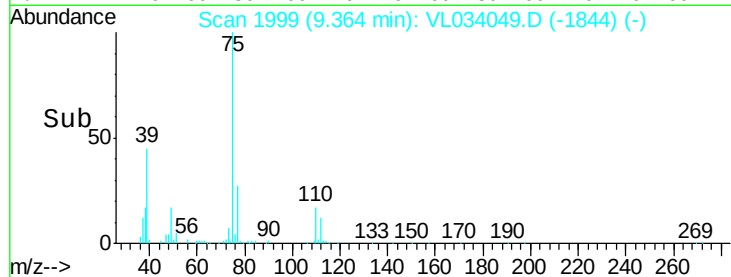
150000

100000

50000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 2.188 ppbv

RT: 8.79 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

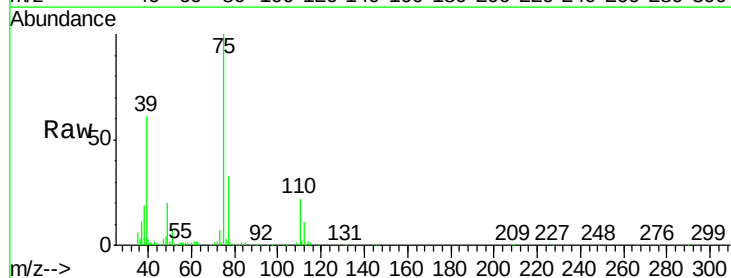
Tgt Ion: 75 Resp: 298356

Ion Ratio Lower Upper

75 100

39 61.1 51.4 77.2

77 33.1 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

200000

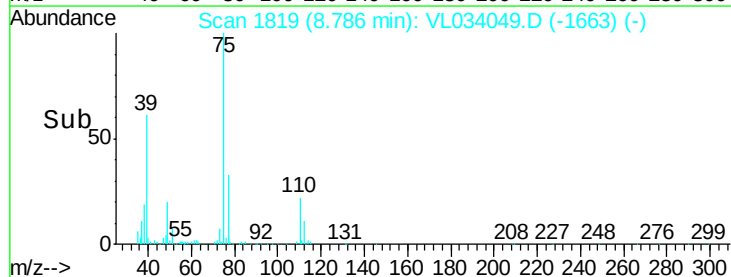
150000

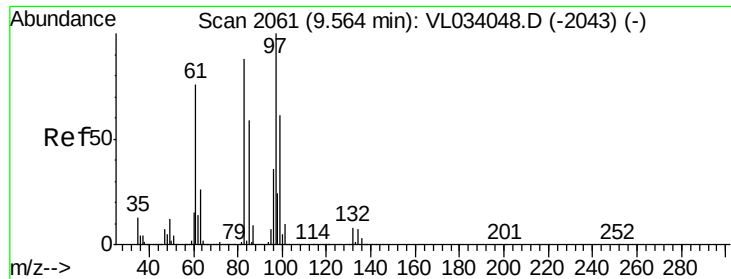
100000

50000

0

Time-->





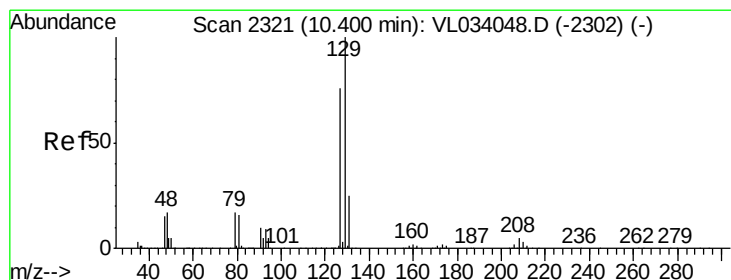
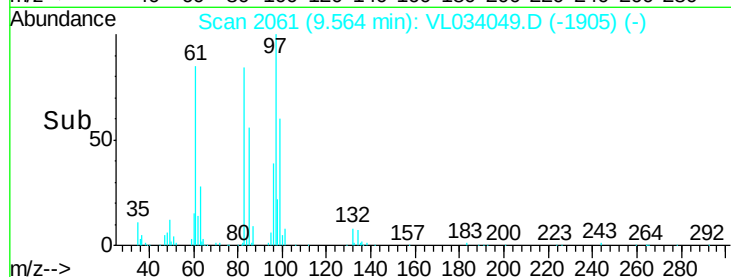
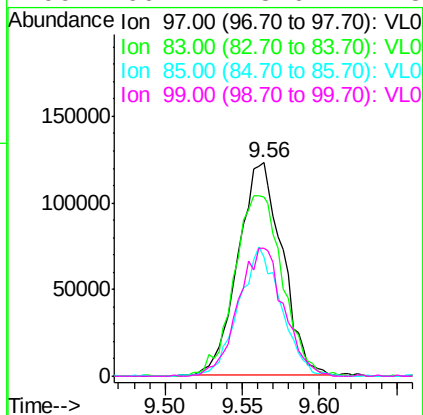
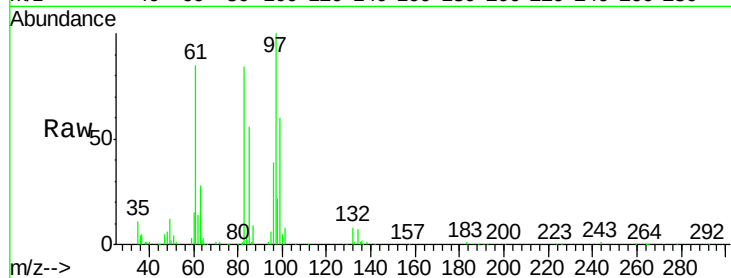
#47
 1,1,2-Trichloroethane
 Concen: 2.175 ppbv
 RT: 9.56 min Scan# 2061
 Delta R.T. 0.00 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
97	100		
83	83.7	70.6	106.0
85	55.6	47.3	70.9
99	60.2	48.6	72.8

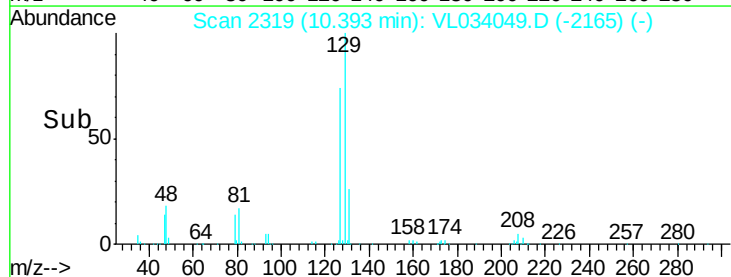
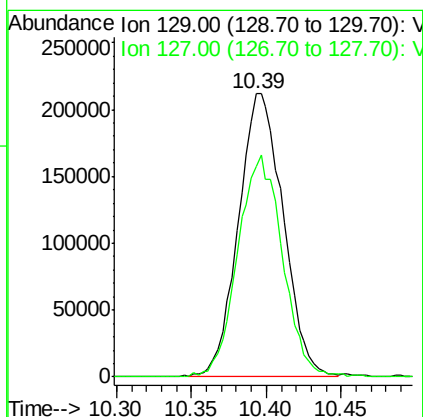
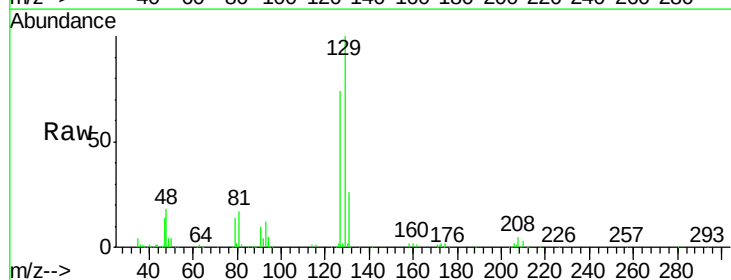
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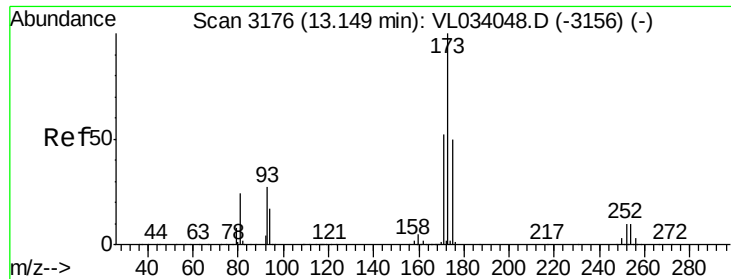
MMDadoda
 8/2/2019 9:37:34 AM



#48
 Dibromochloromethane
 Concen: 1.955 ppbv
 RT: 10.39 min Scan# 2319
 Delta R.T. -0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	38.6	115.8





#49

Bromoform

Concen: 2.268 ppbv

RT: 13.14 min Scan# 3174

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

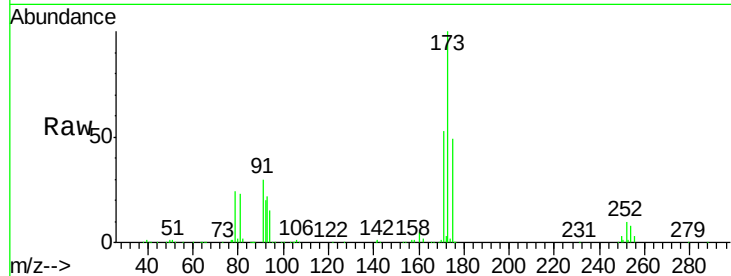
ClientSampleId :

VSTDIC002

Tot Ion:	173	Resp:	415522
Ion	Ratio	Lower	Upper
173	100		
175	50.4	39.4	59.0
171	52.9	41.9	62.9

Manual Integrations
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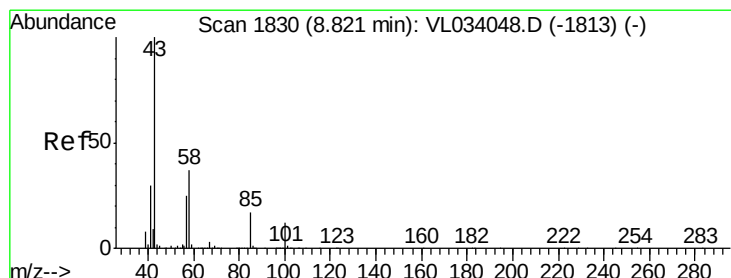
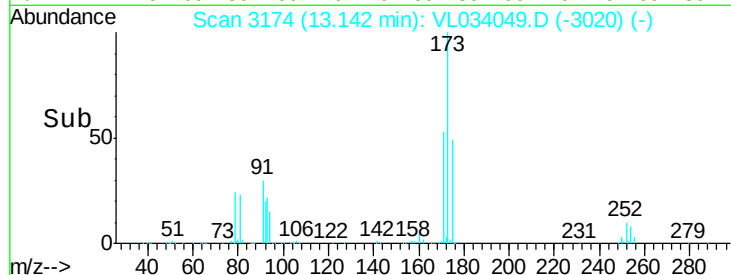
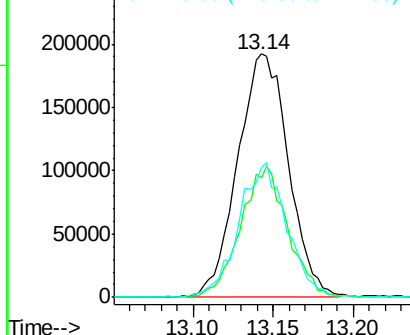


Abundance

Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 2.236 ppbv

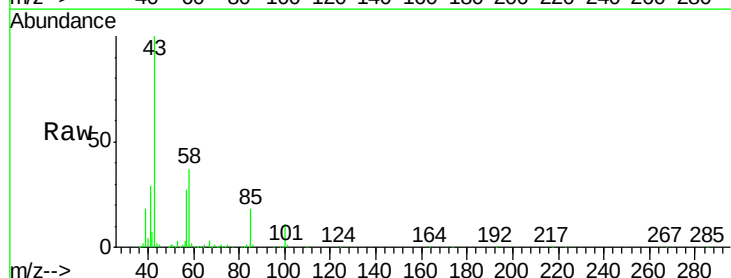
RT: 8.83 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

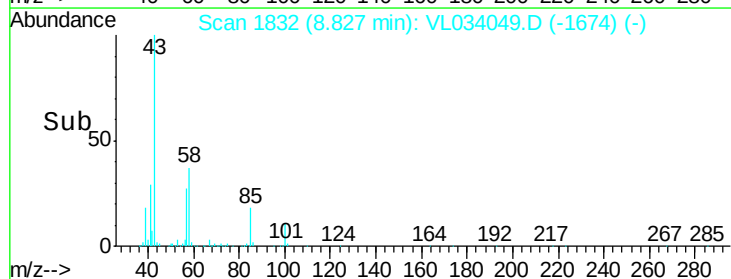
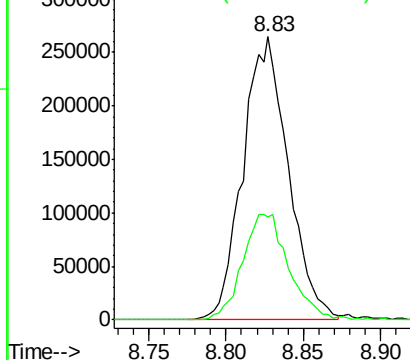
Tgt Ion:	43	Resp:	536848
Ion	Ratio	Lower	Upper
43	100		
58	38.4	30.7	46.1

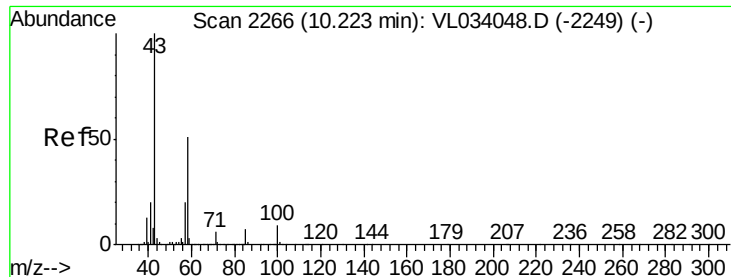


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





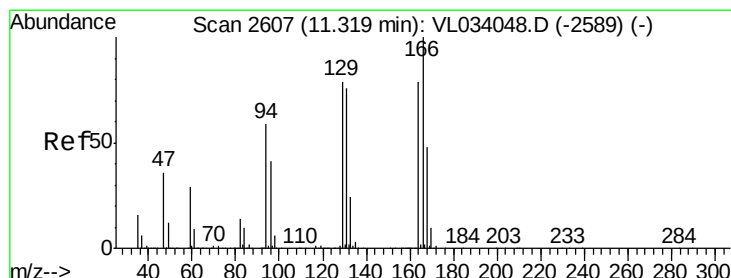
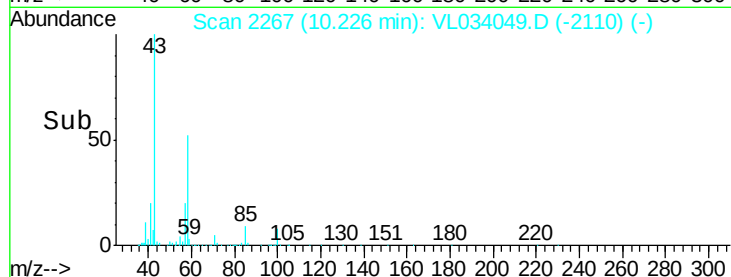
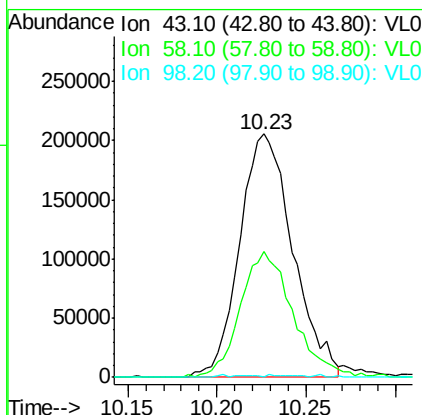
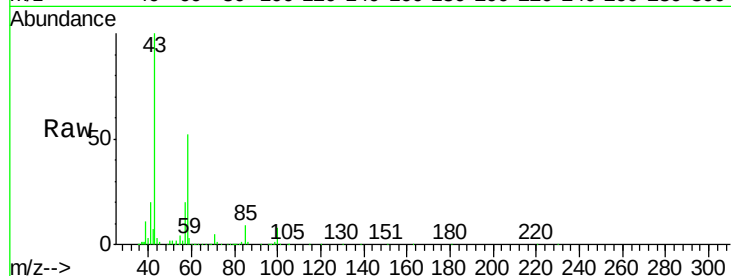
#51
2-Hexanone
Concen: 2.080 ppbv
RT: 10.23 min Scan# 2267
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.8	40.2	60.2
98	0.0	0.4	0.6

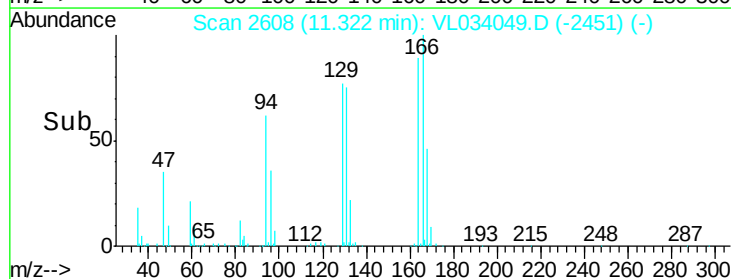
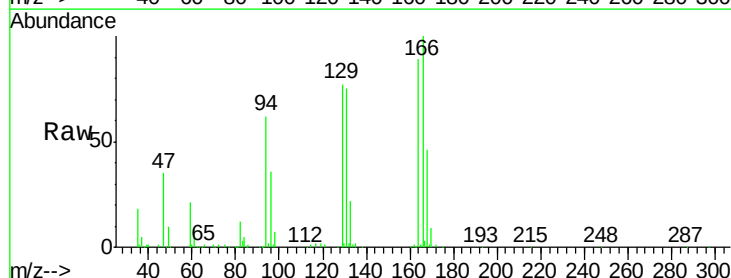
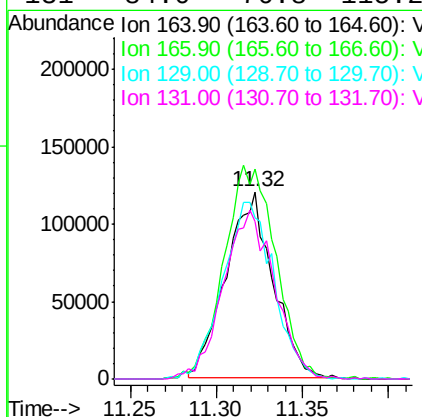
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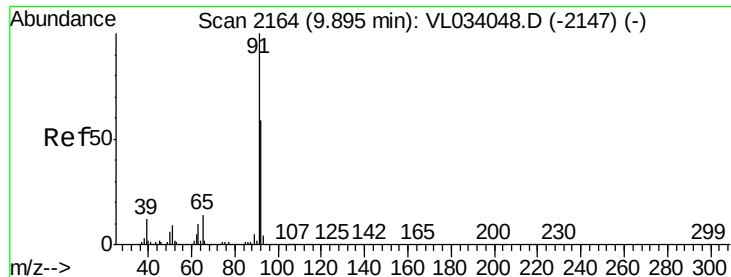
MMdadoda
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#52
Tetrachloroethene
Concen: 2.187 ppbv
RT: 11.32 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
164	100		
166	112.1	101.6	152.4
129	85.6	80.7	121.1
131	84.0	76.8	115.2





#53

Toluene

Concen: 2.354 ppbv

RT: 9.89 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 640037

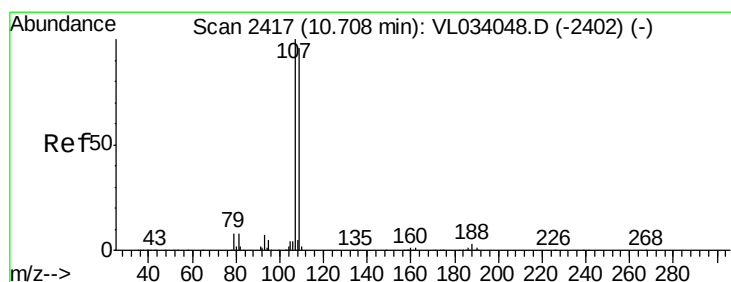
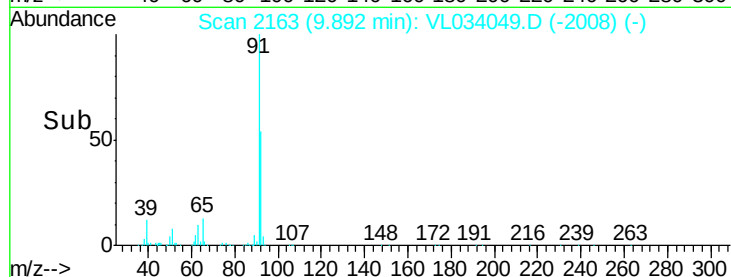
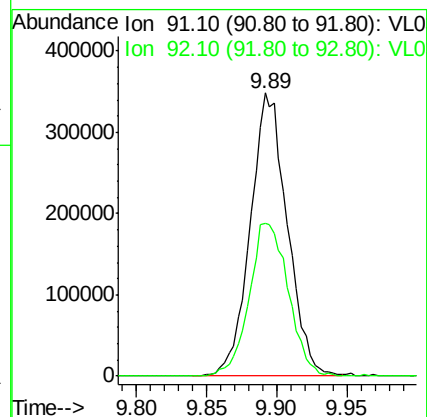
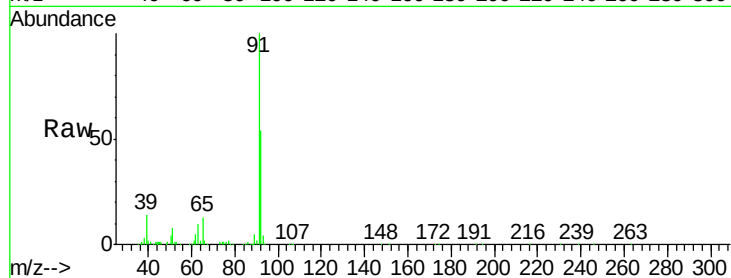
Ion Ratio Lower Upper

91 100

92 57.4 47.4 71.2

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 2.216 ppbv

RT: 10.71 min Scan# 2416

Delta R.T. -0.00 min

Lab File: VL034049.D

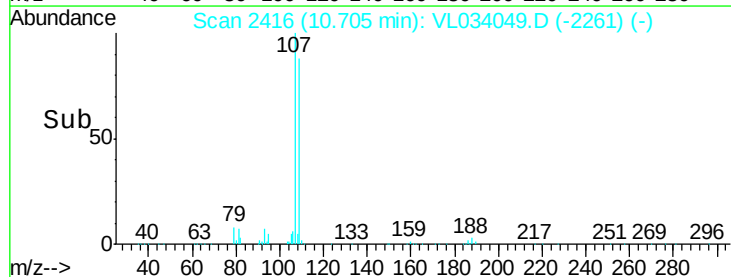
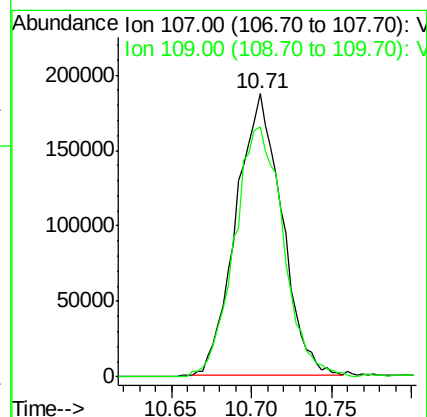
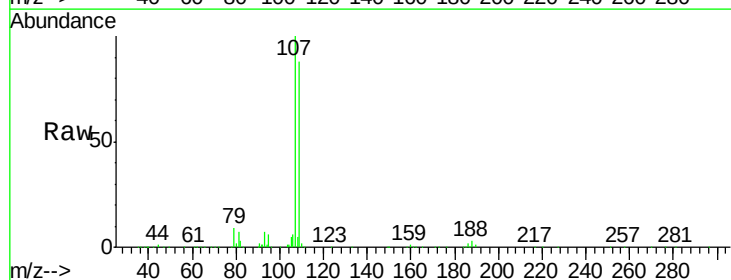
Acq: 30 Jul 2019 2:48

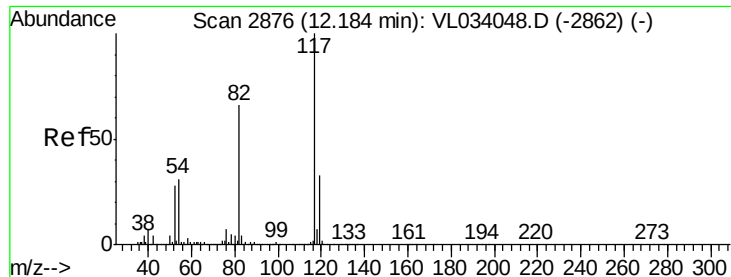
Tgt Ion: 107 Resp: 364817

Ion Ratio Lower Upper

107 100

109 87.3 76.6 115.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2875

Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:117 Resp: 3315852

Ion Ratio Lower Upper

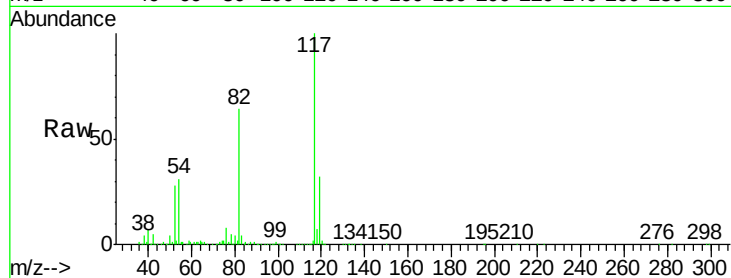
117 100

82 63.5 49.8 74.8

119 36.9 43.0 64.6#

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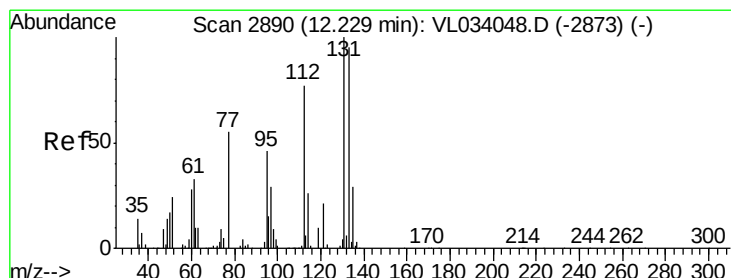
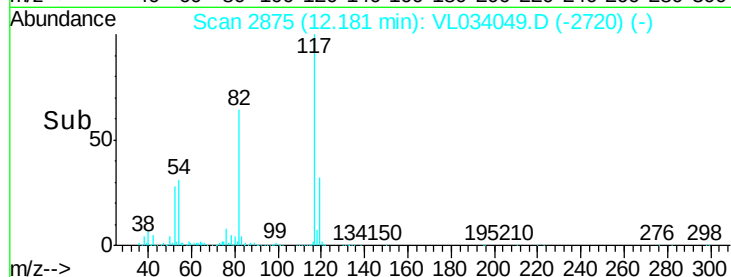
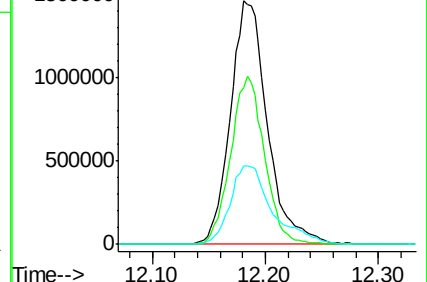
MMdadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 2.241 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

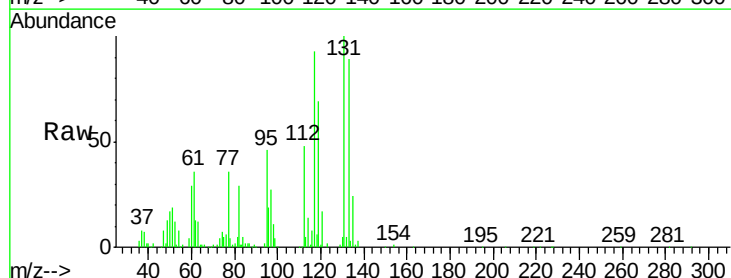
Tgt Ion:131 Resp: 326849

Ion Ratio Lower Upper

131 100

133 91.6 76.6 114.8

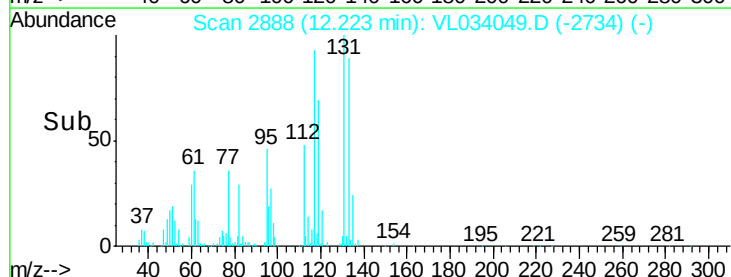
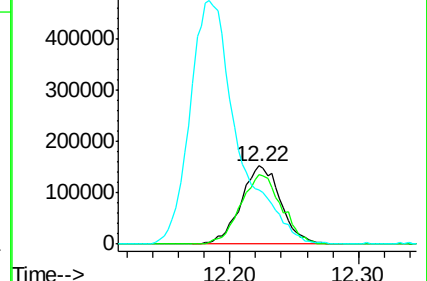
119 374.5 46.6 69.8#

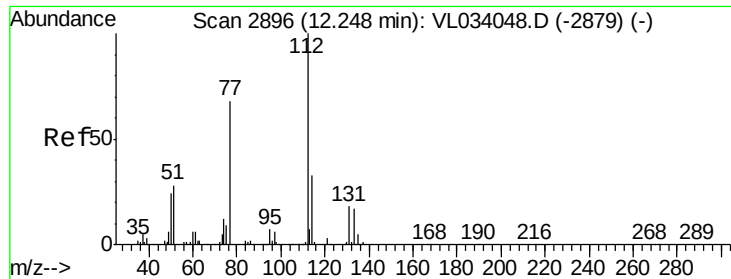


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 2.111 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

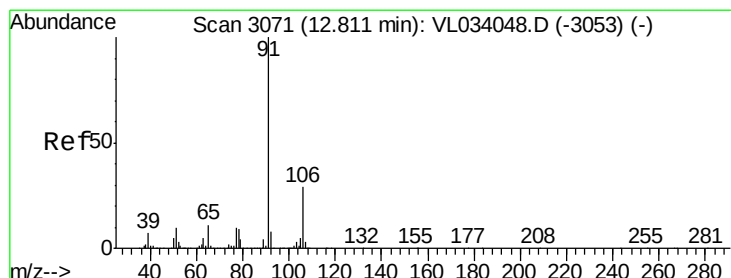
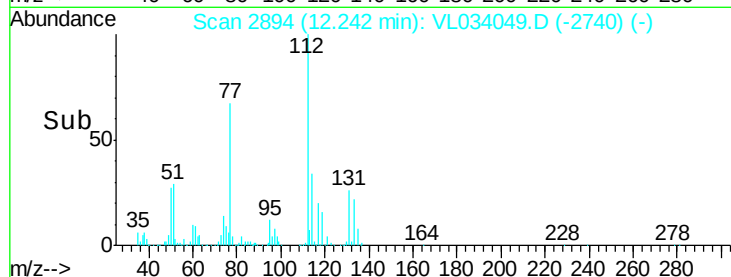
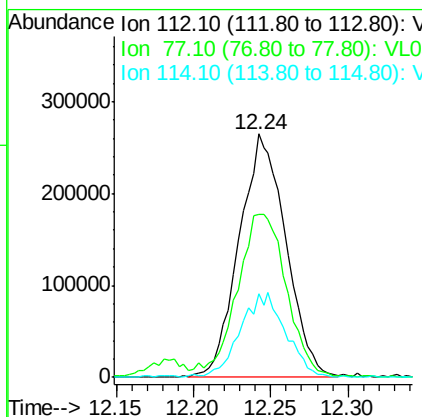
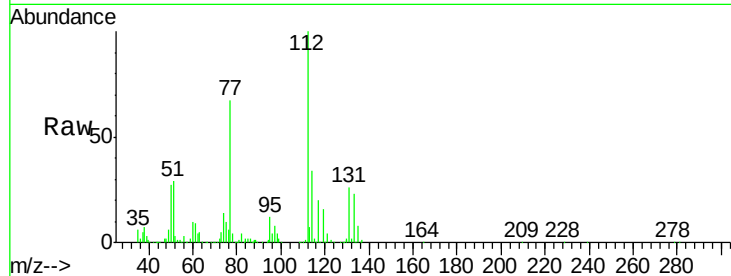
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	548434
Ion Ratio	Lower	Upper	
112	100		
77	66.3	55.1	82.7
114	34.1	29.5	36.1

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#58

Ethyl Benzene

Concen: 2.261 ppbv

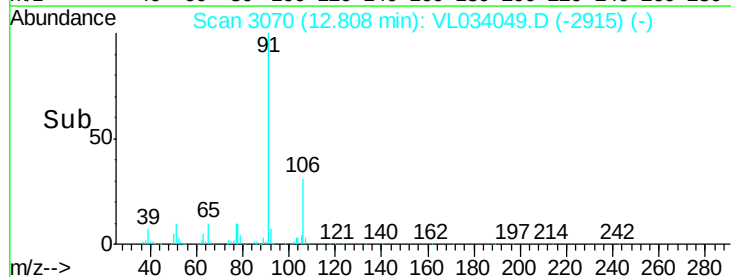
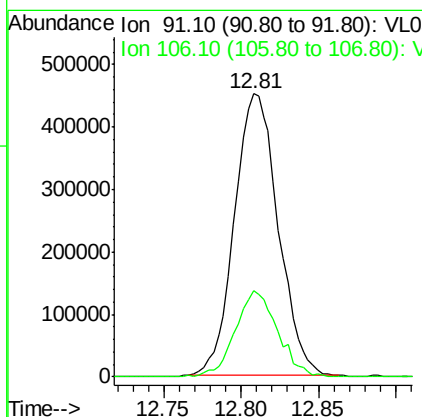
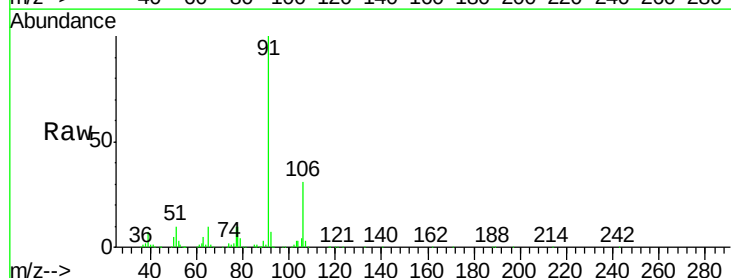
RT: 12.81 min Scan# 3070

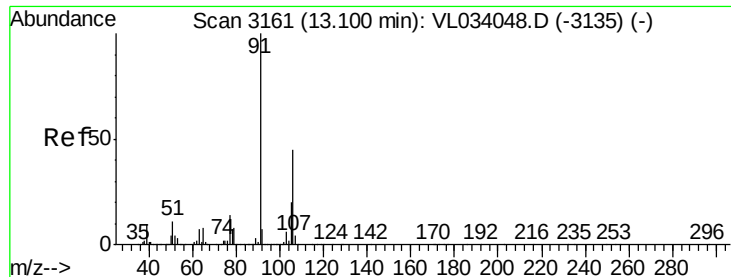
Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion:	91	Resp:	887310
Ion Ratio	Lower	Upper	
91	100		
106	30.6	23.5	35.3





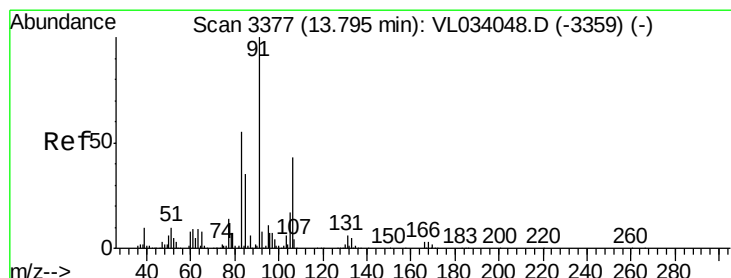
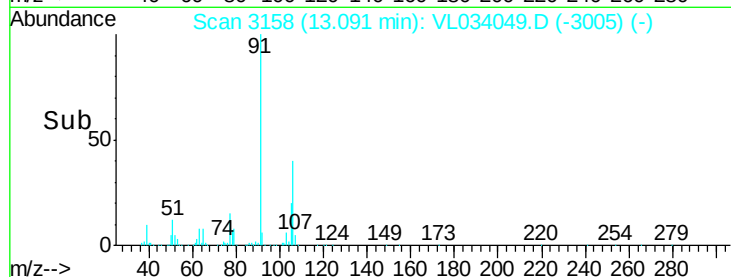
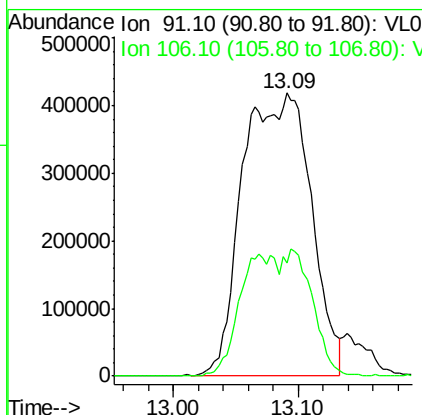
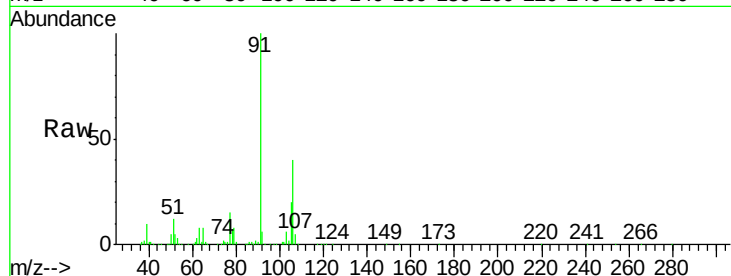
#59
m/p-Xylene
Concen: 4.481 ppbv m
RT: 13.09 min Scan# 3158
Delta R.T. -0.01 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1593531
Ion Ratio Lower Upper
91 100
106 44.1 35.1 52.7

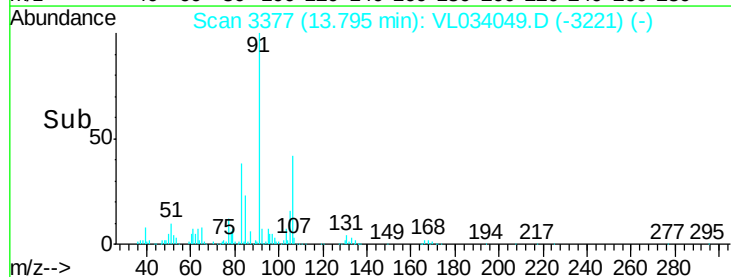
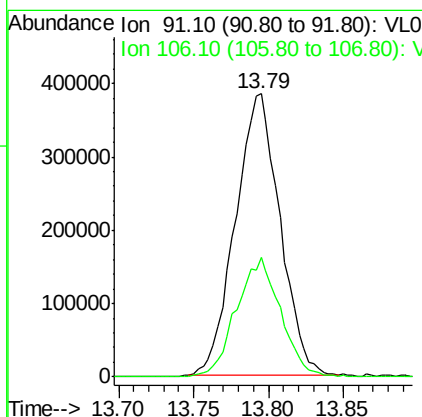
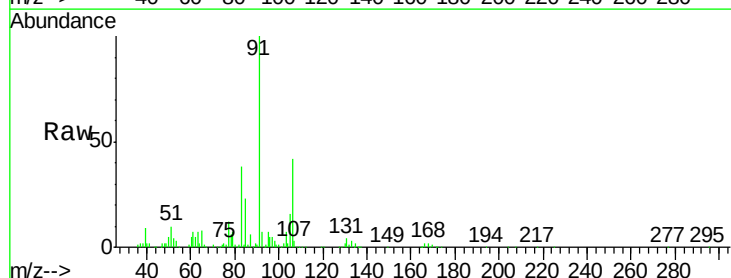
Manual Integrations
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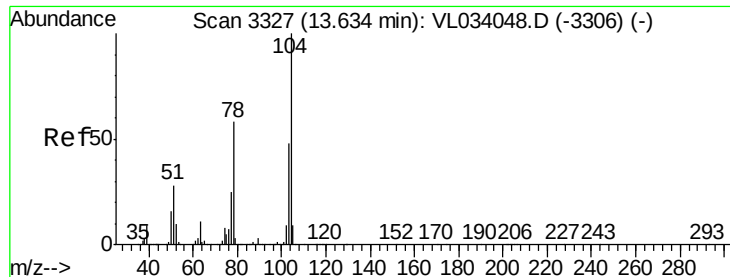
MMdadoda
8/2/2019 9:37:34 AM



#60
o-Xylene
Concen: 2.226 ppbv
RT: 13.79 min Scan# 3377
Delta R.T. 0.00 min
Lab File: VL034049.D
Acq: 30 Jul 2019 2:48

Tgt Ion: 91 Resp: 794192
Ion Ratio Lower Upper
91 100
106 42.3 21.2 63.6





#61

Stvrene

Concen: 2.296 ppbv

RT: 13.63 min Scan# 3325

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

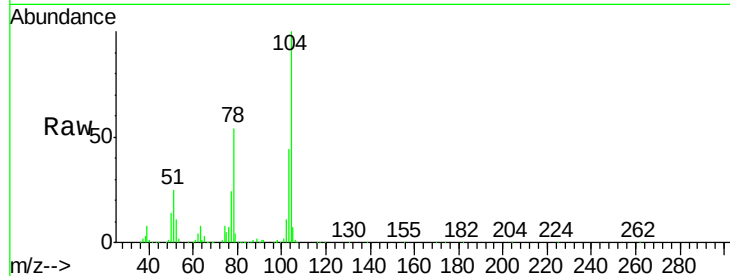
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	538520
Ion Ratio	Lower	Upper	
104	100		
78	57.1	44.3	66.5
103	48.9	38.8	58.2

Manual Integrations
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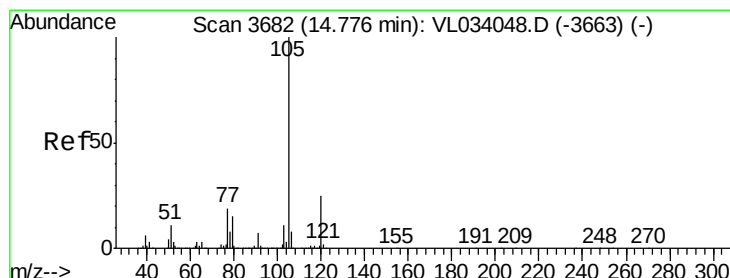
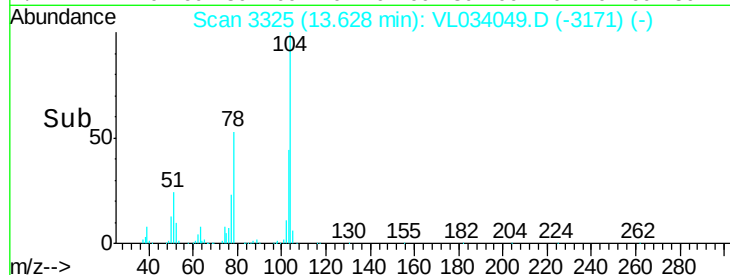
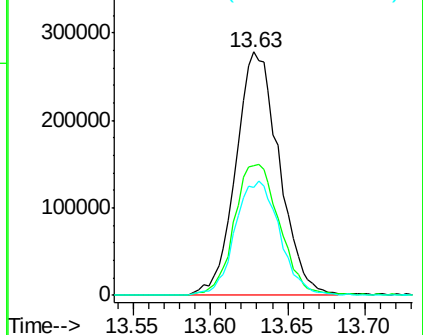
MMdadoda
8/2/2019 9:37:34 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 2.129 ppbv m

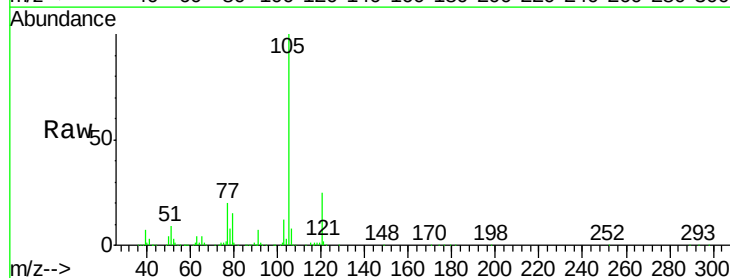
RT: 14.77 min Scan# 3679

Delta R.T. -0.01 min

Lab File: VL034049.D

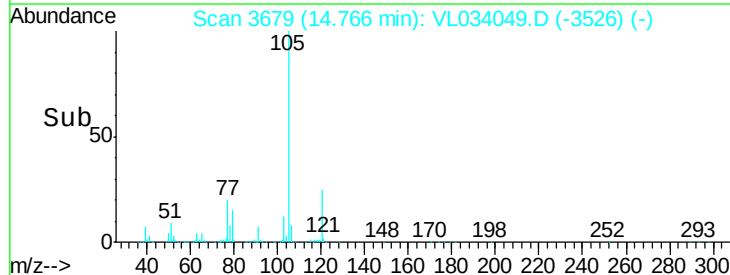
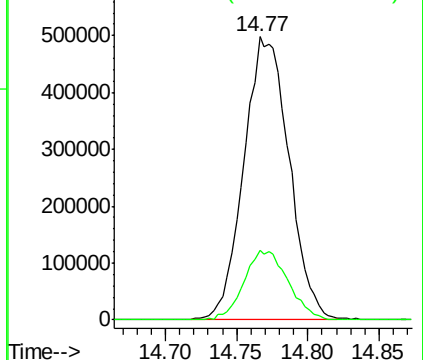
Acq: 30 Jul 2019 2:48

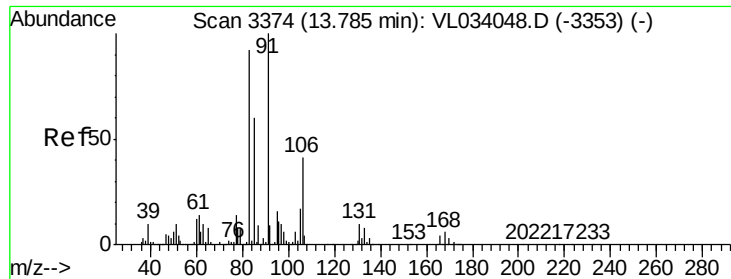
Tgt Ion:	105	Resp:	1097124
Ion Ratio	Lower	Upper	
105	100		
120	0.0	20.2	30.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 2.059 ppbv

RT: 13.78 min Scan# 3372

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

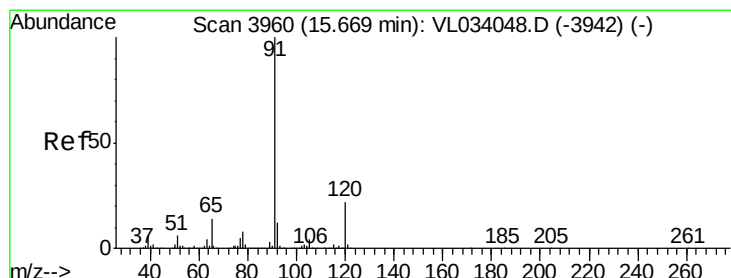
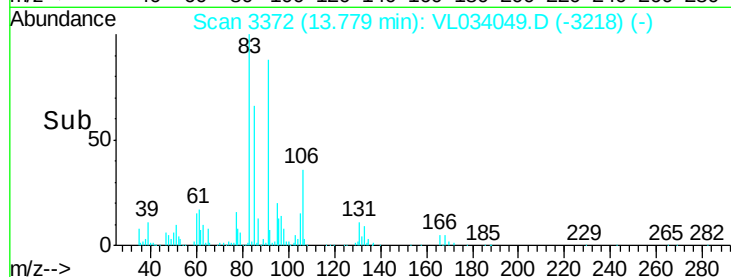
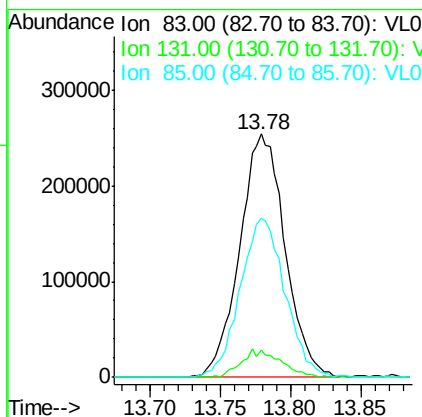
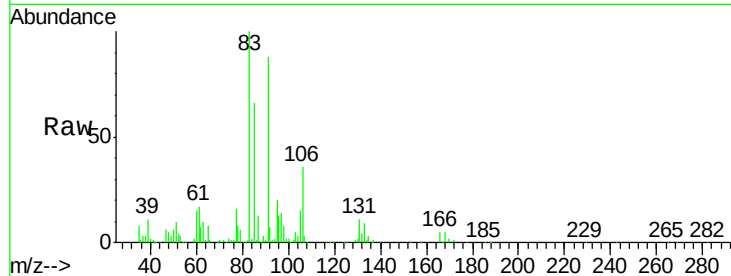
ClientSampleId :

VSTDIC002

Tot Ion:	83	Resp:	570064
Ion Ratio	Lower	Upper	
83	100		
131	10.3	4.8	14.4
85	65.3	32.4	97.0

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#64

n-propylbenzene

Concen: 2.048 ppbv

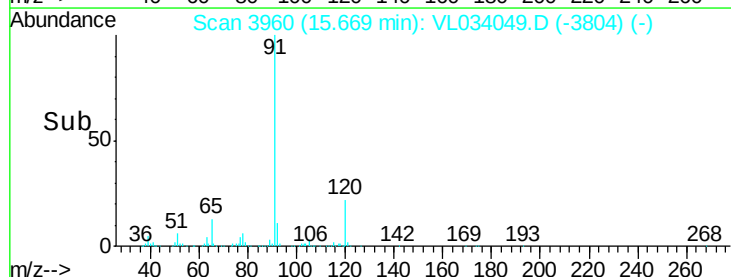
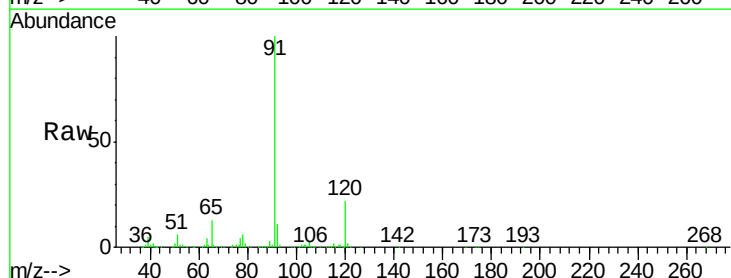
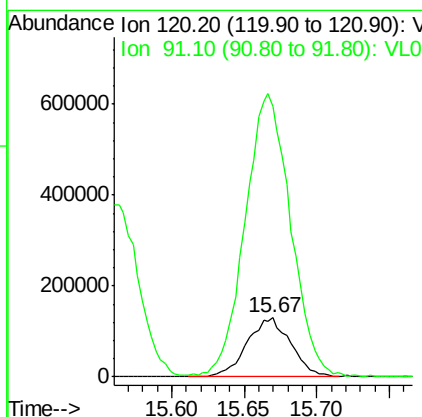
RT: 15.67 min Scan# 3960

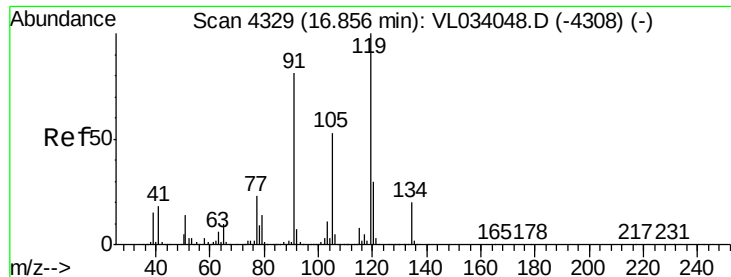
Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion:	120	Resp:	272930
Ion Ratio	Lower	Upper	
120	100		
91	497.1	386.2	579.2





#65

tert-Butylbenzene

Concen: 2.357 ppbv

RT: 16.85 min Scan# 4328

Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 119 Resp: 1023765

Ion Ratio Lower Upper

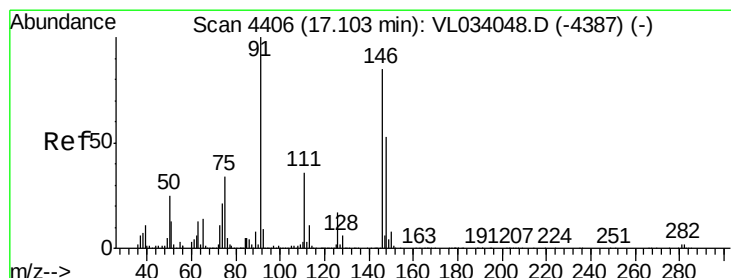
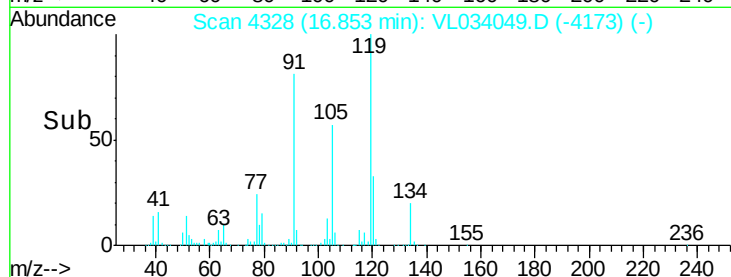
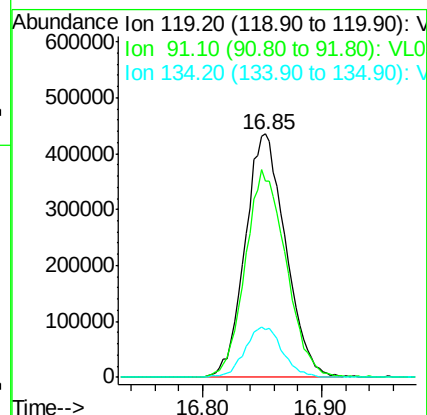
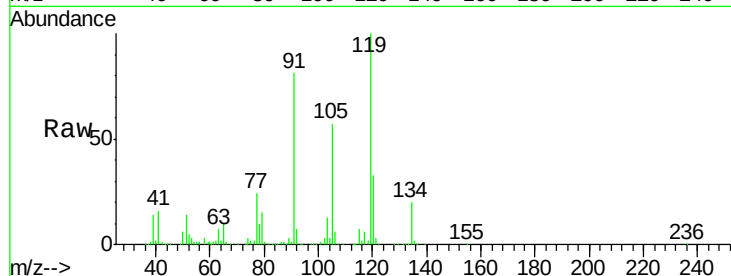
119 100

91 85.9 66.9 100.3

134 19.4 15.5 23.3

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#66

Benzyl Chloride

Concen: 2.204 ppbv

RT: 17.10 min Scan# 4404

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

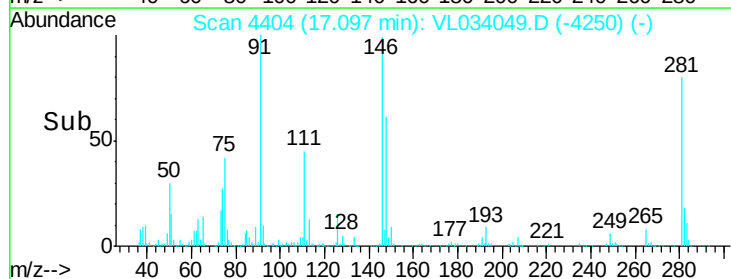
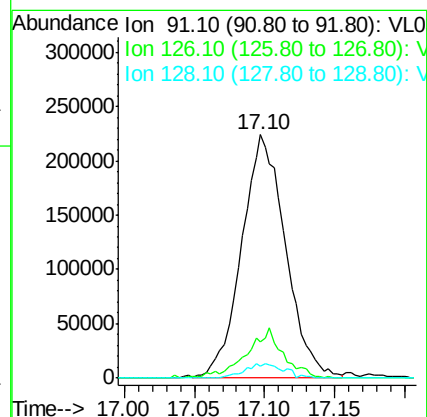
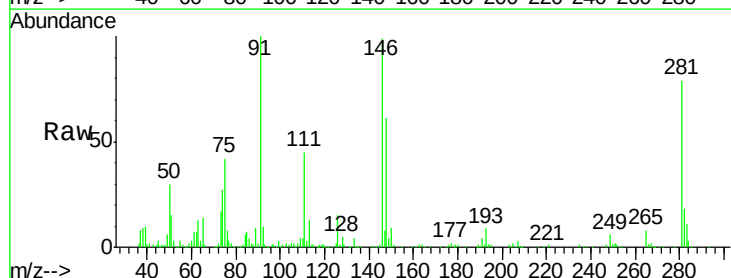
Tgt Ion: 91 Resp: 484129

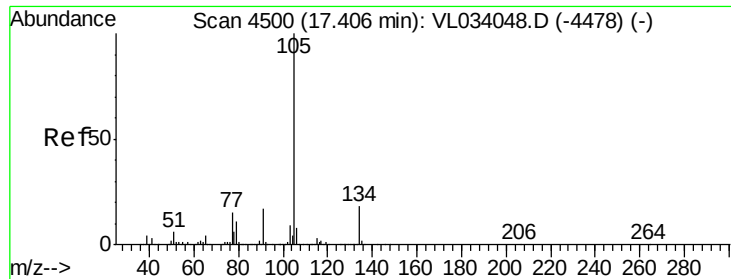
Ion Ratio Lower Upper

91 100

126 17.7 13.5 20.3

128 5.6 4.5 6.7





#67

sec-Butylbenzene

Concen: 2.345 ppbv

RT: 17.40 min Scan# 4498

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1437622

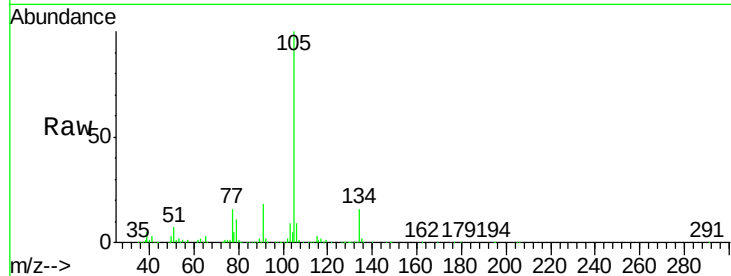
Ion Ratio Lower Upper

105 100

134 17.4 14.3 21.5

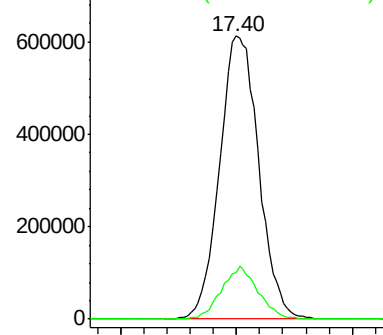
Manual Integrations
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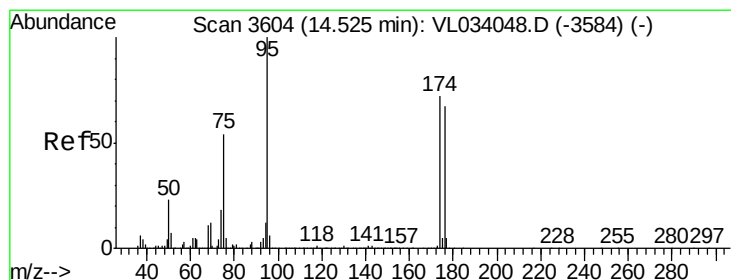
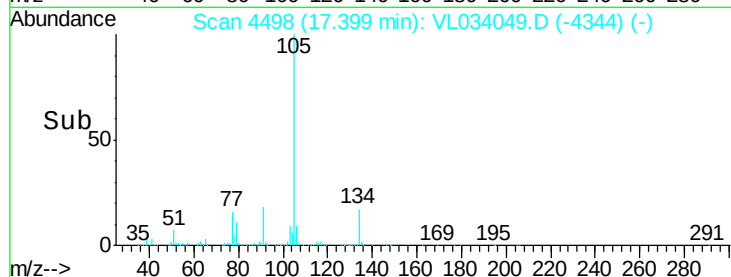


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.661 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

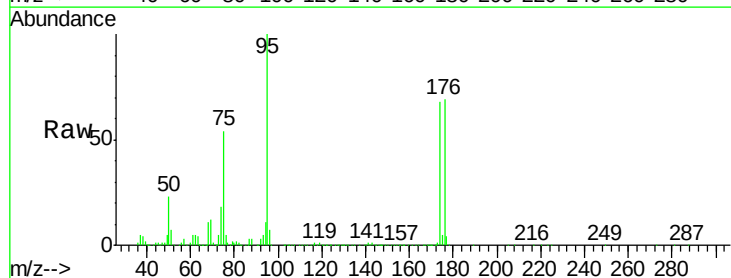
Tgt Ion: 95 Resp: 2629098

Ion Ratio Lower Upper

95 100

174 72.3 57.6 86.4

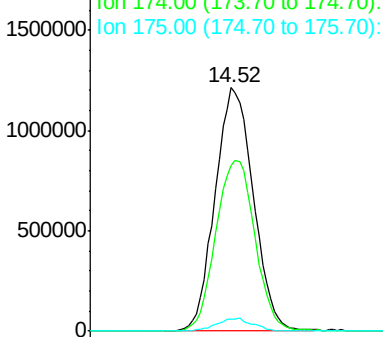
175 4.9 4.1 6.1



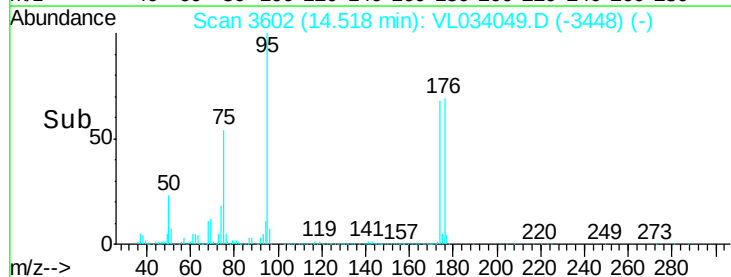
Abundance Ion 95.10 (94.80 to 95.80): VL0

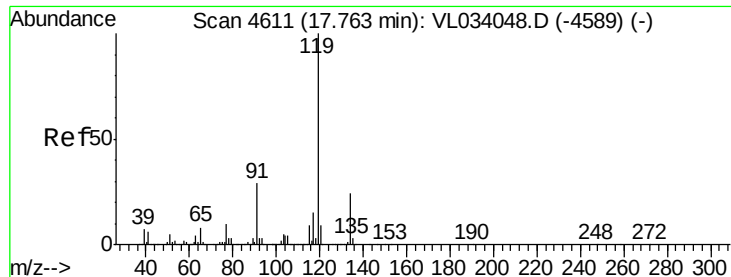
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





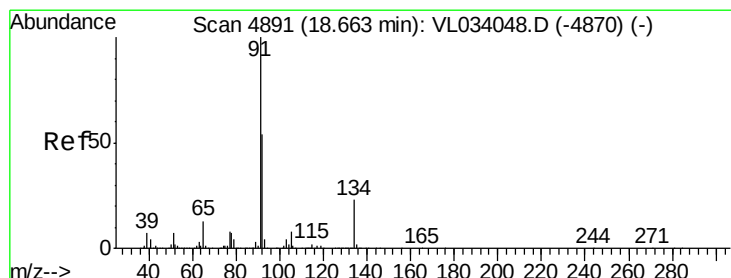
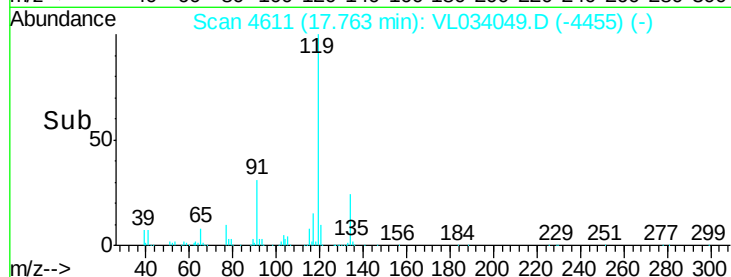
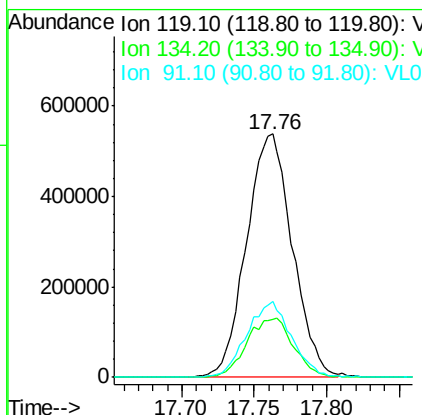
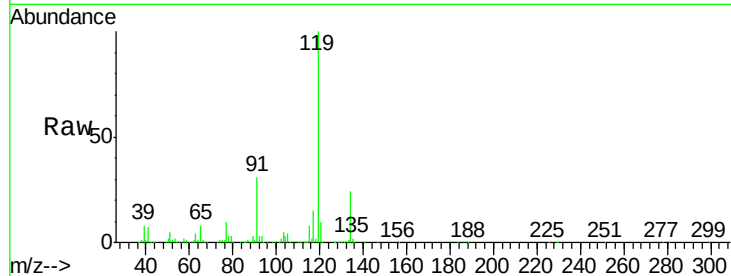
#69
 p-Isopropyltoluene
 Concen: 2.346 ppbv
 RT: 17.76 min Scan# 4611
 Delta R.T. 0.00 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.1	30.1
91	30.8	23.6	35.4

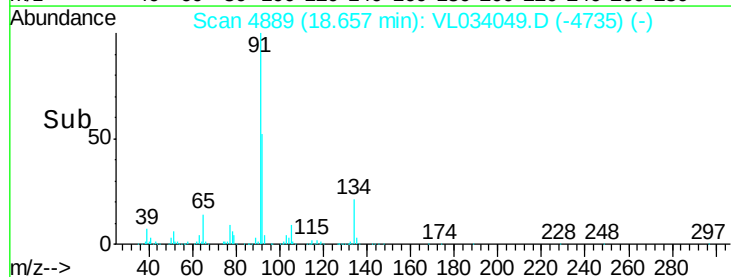
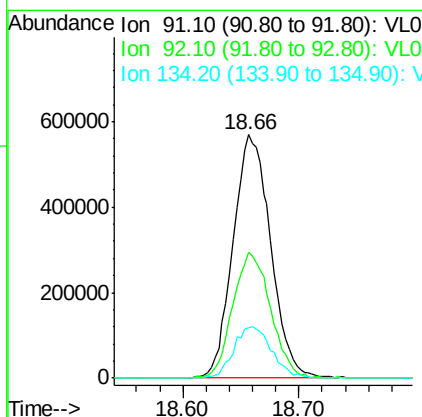
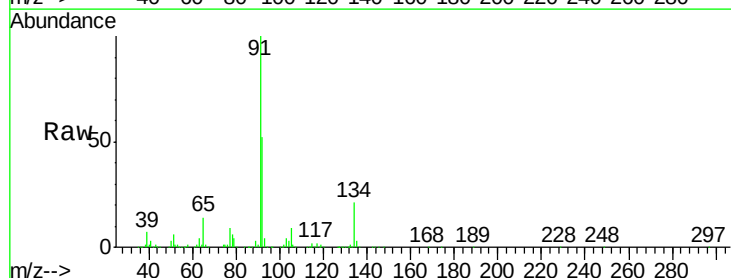
Manual Integrations
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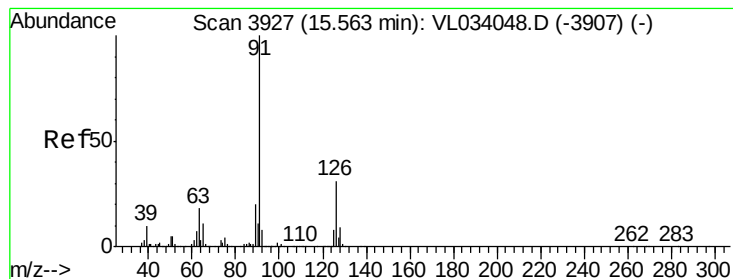
MMdadoda
 8/2/2019 9:37:34 AM



#70
 n-Butylbenzene
 Concen: 2.411 ppbv
 RT: 18.66 min Scan# 4889
 Delta R.T. -0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.1	42.6	64.0
134	21.3	17.7	26.5





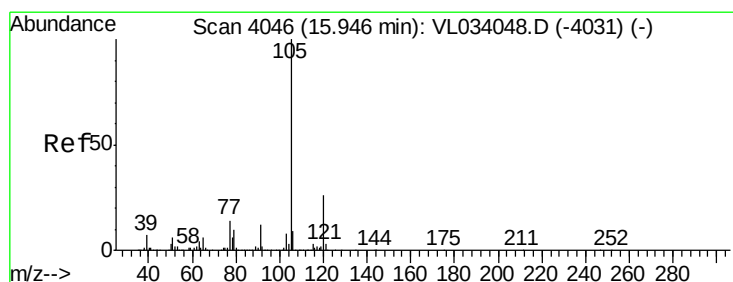
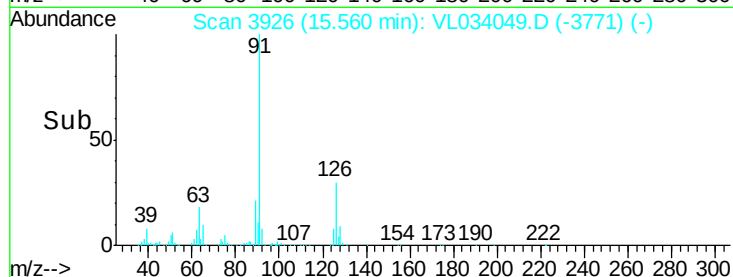
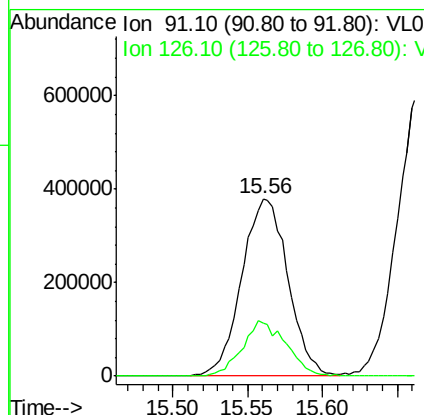
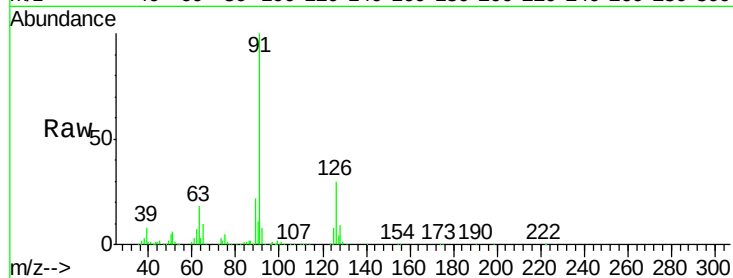
#71
 2-Chlorotoluene
 Concen: 2.153 ppbv
 RT: 15.56 min Scan# 3926
 Delta R.T. -0.00 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 91 Resp: 808063
 Ion Ratio Lower Upper
 91 100
 126 30.1 12.0 48.2

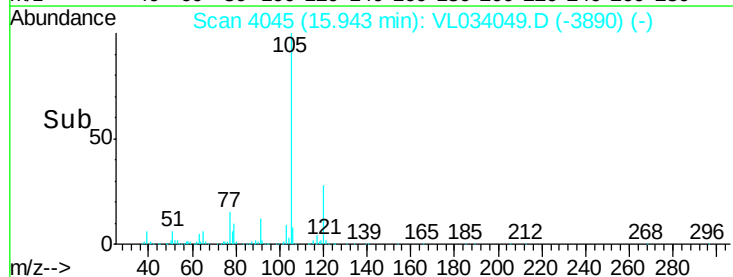
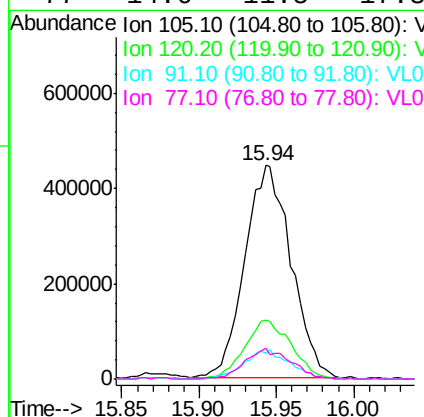
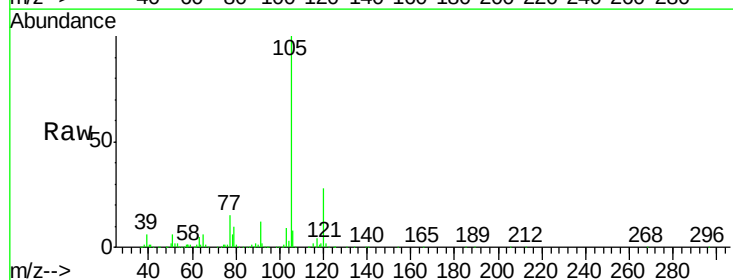
Manual Integrations
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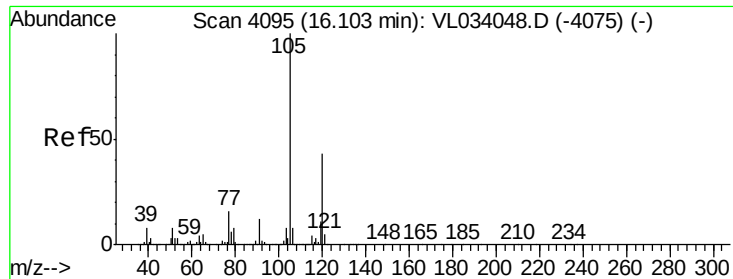
MMdadoda
 8/2/2019 9:37:34 AM



#72
 4-Ethyltoluene
 Concen: 2.140 ppbv
 RT: 15.94 min Scan# 4045
 Delta R.T. -0.00 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Tgt Ion: 105 Resp: 925033
 Ion Ratio Lower Upper
 105 100
 120 28.7 23.0 34.4
 91 13.1 10.6 16.0
 77 14.6 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 2.322 ppbv

RT: 16.10 min Scan# 4094

Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 925589

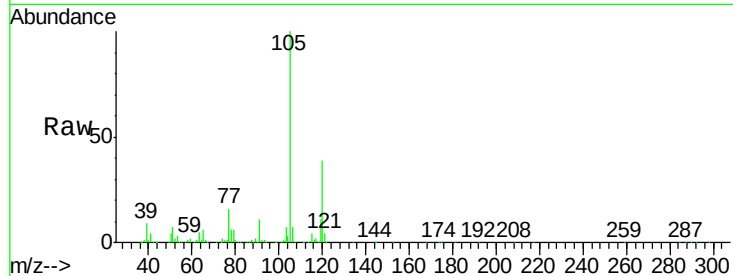
Ion Ratio Lower Upper

105 100

120 39.2 34.7 52.1

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.10

400000

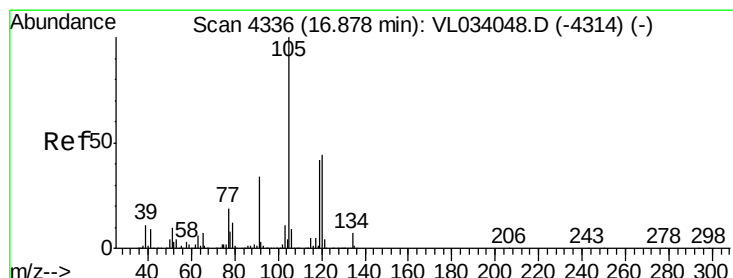
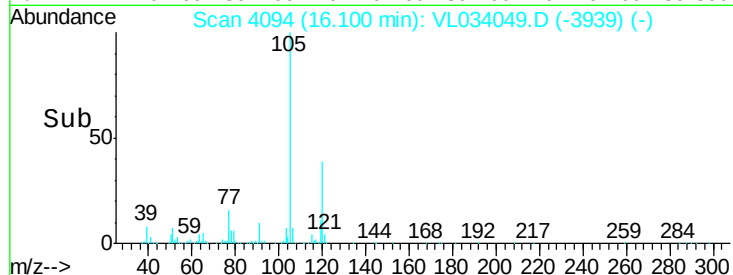
300000

200000

100000

0

Time--> 16.00 16.05 16.10 16.15



#74

1,2,4-Trimethylbenzene

Concen: 2.329 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. -0.01 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion:105 Resp: 1028038

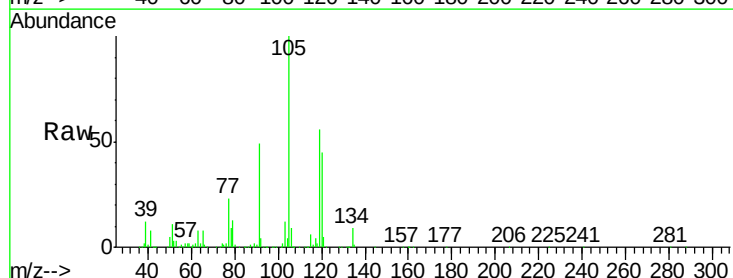
Ion Ratio Lower Upper

105 100

120 44.7 35.6 53.4

91 48.8 28.0 42.0#

77 22.5 15.2 22.8



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

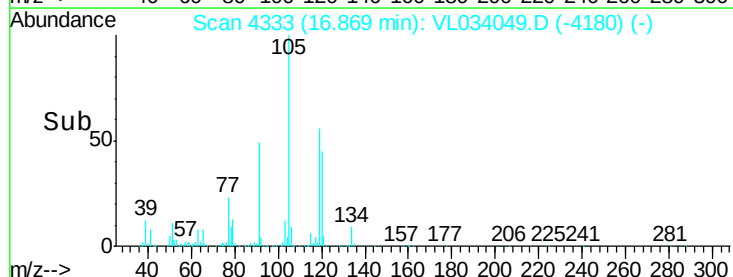
600000

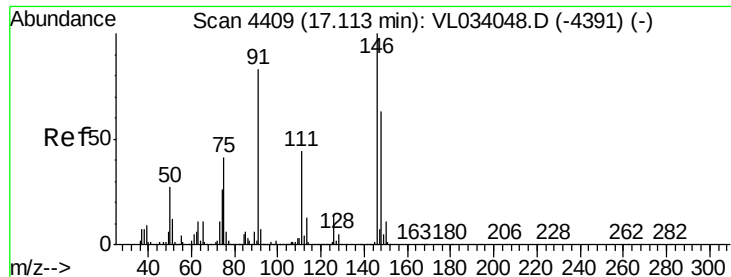
400000

200000

0

Time--> 16.80 16.90





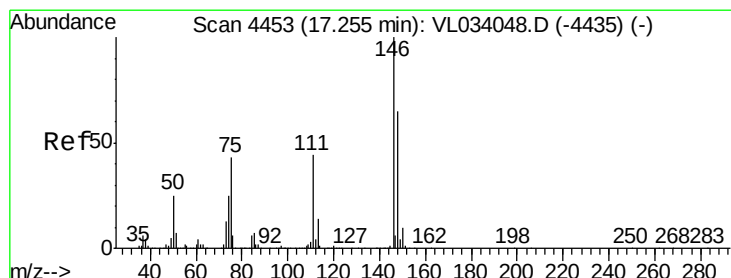
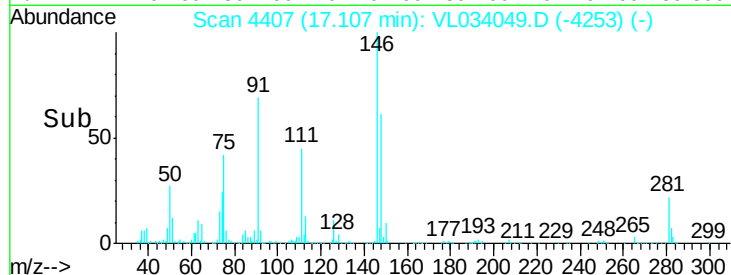
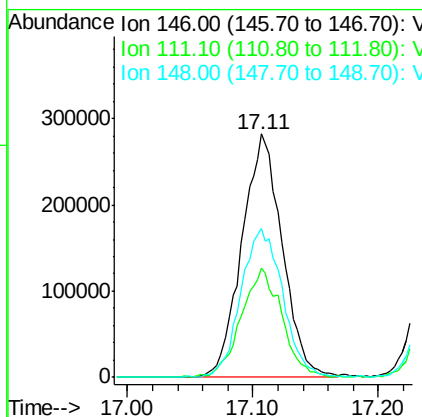
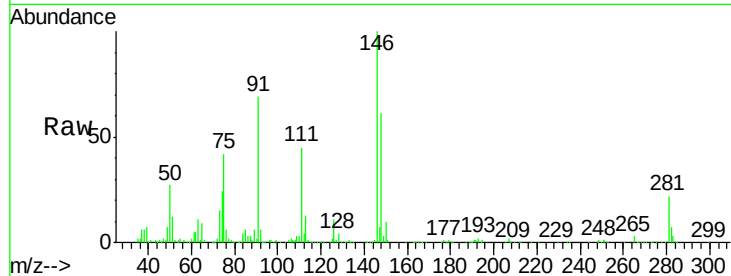
#75
 1,3-Dichlorobenzene
 Concen: 2.240 ppbv
 RT: 17.11 min Scan# 4407
 Delta R.T. -0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.1	66.5
148	63.5	32.0	96.2

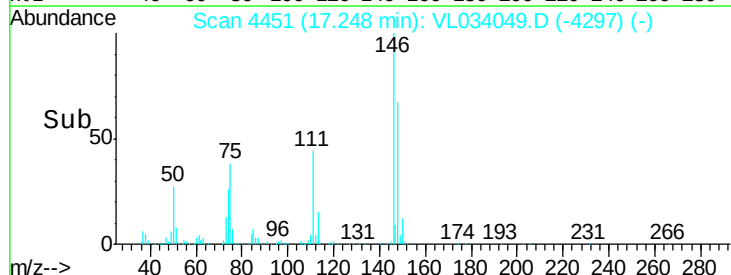
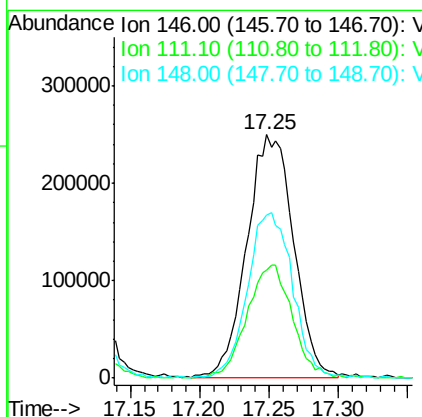
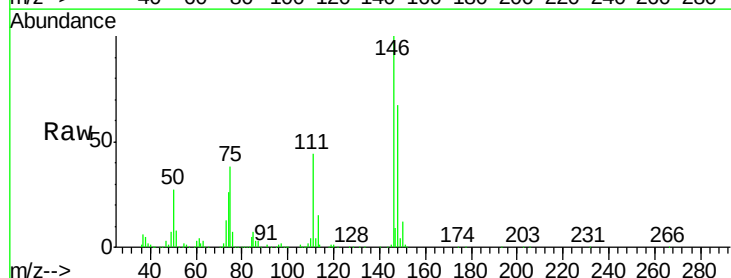
Manual Integrations
 APPROVED

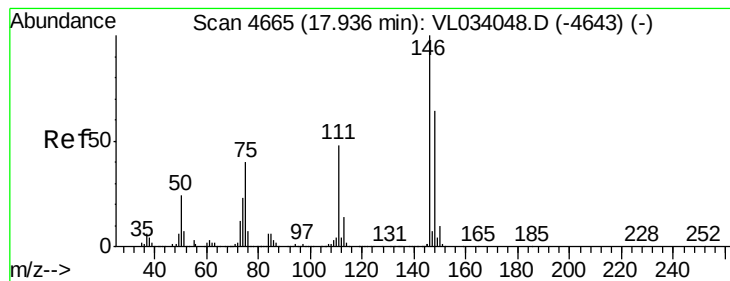
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 8/2/2019 9:37:34 AM



#76
 1,4-Dichlorobenzene
 Concen: 2.210 ppbv m
 RT: 17.25 min Scan# 4451
 Delta R.T. -0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.8	65.4#
148	0.0	32.3	96.9#





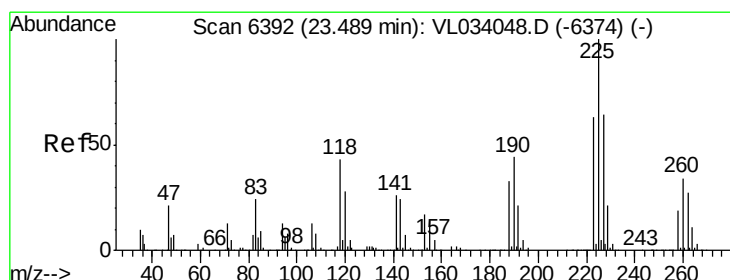
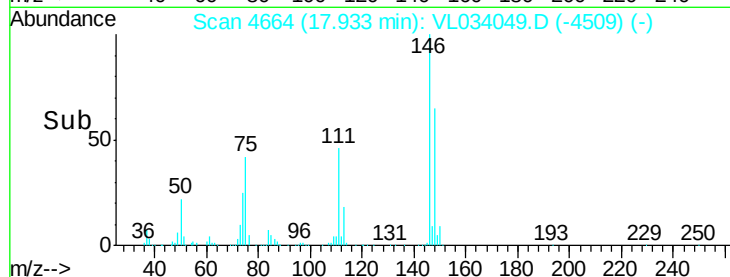
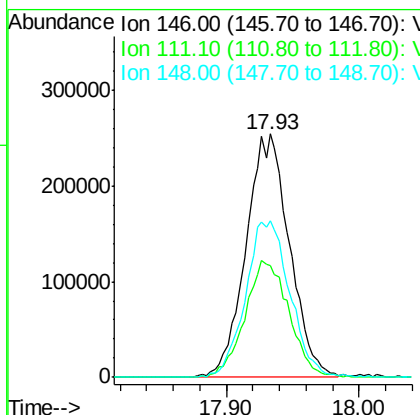
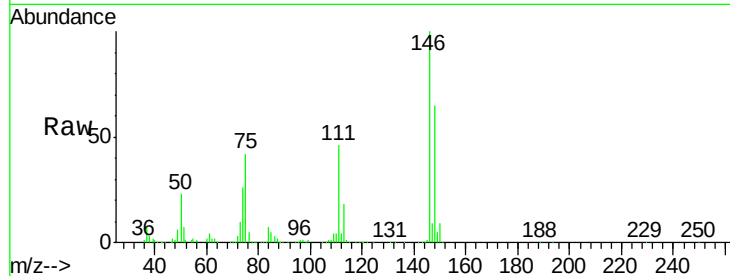
#77
 1,2-Dichlorobenzene
 Concen: 2.222 ppbv m
 RT: 17.93 min Scan# 4664
 Delta R.T. -0.00 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.4	70.2#
148	65.9	32.3	96.9

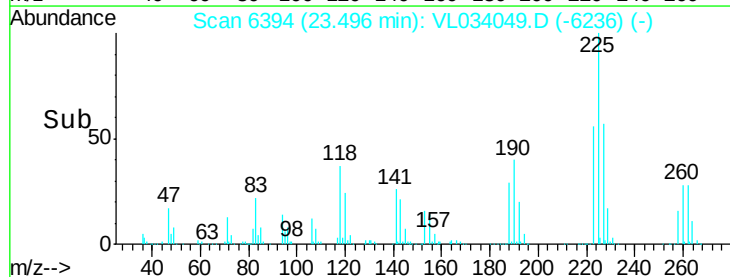
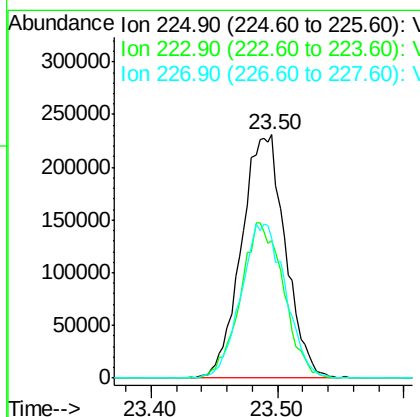
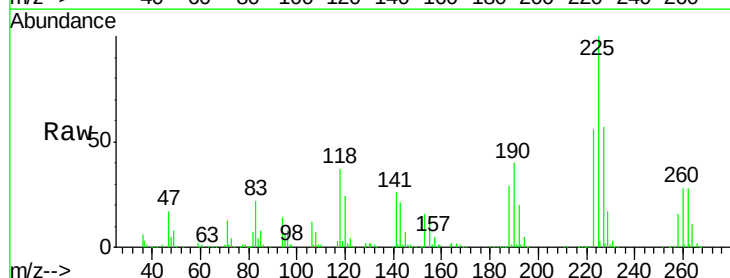
Manual Integrations
 APPROVED

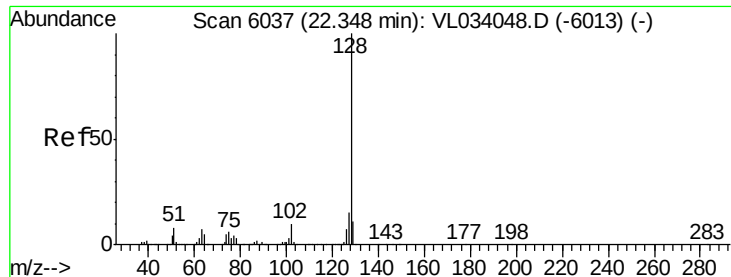
MMdadoda
 8/2/2019 9:37:34 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.453 ppbv m
 RT: 23.50 min Scan# 6394
 Delta R.T. 0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.6	74.4
227	64.3	51.4	77.2





#79

Naphthalene

Concen: 2.492 ppbv

RT: 22.34 min Scan# 6036

Delta R.T. -0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Instrument :

MSVOA_L

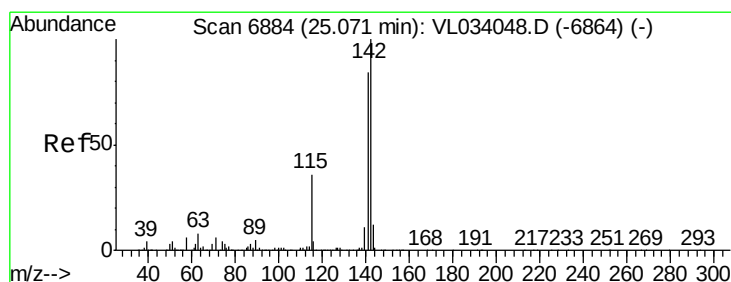
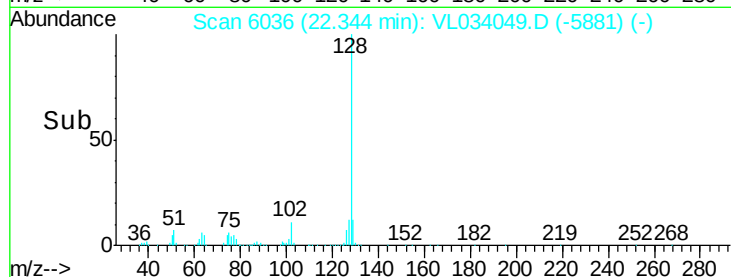
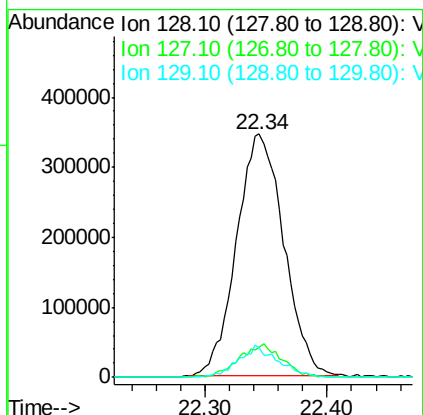
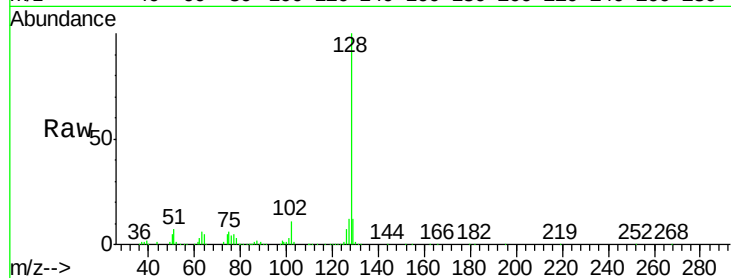
ClientSampleId :

VSTDIC002

Tot Ion:	128	Resp:	926292
Ion Ratio	Lower	Upper	
128	100		
127	11.9	11.8	17.6
129	12.5	9.1	13.7

Manual Integrations
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MMdadoda
8/2/2019 9:37:34 AM



#80

Naphthalene, 2-methyl-

Concen: 2.346 ppbv

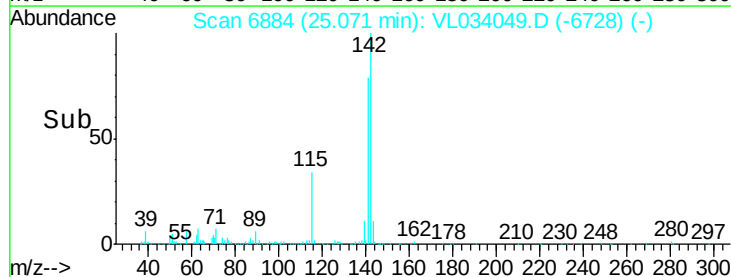
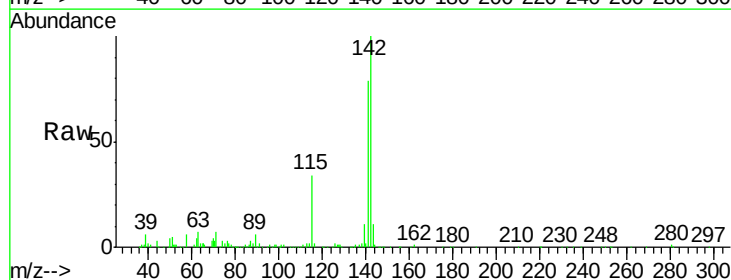
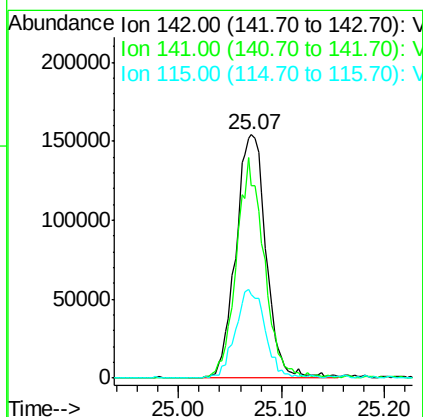
RT: 25.07 min Scan# 6884

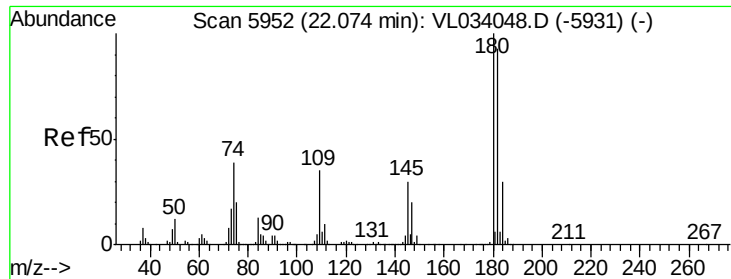
Delta R.T. 0.00 min

Lab File: VL034049.D

Acq: 30 Jul 2019 2:48

Tgt Ion:	142	Resp:	315674
Ion Ratio	Lower	Upper	
142	100		
141	83.6	67.6	101.4
115	36.8	29.8	44.6





#81
 1,2,4-Trichlorobenzene
 Concen: 2.484 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. -0.01 min
 Lab File: VL034049.D
 Acq: 30 Jul 2019 2:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	180	Resp:	596910
Ion Ratio	Lower	Upper	
180	100		
182	95.4	76.5	114.7
184	30.2	24.5	36.7

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:34 AM

