

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034677.D
 Acq On : 26 Feb 2020 3:08
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:13 PM

Quant Time: Feb 26 03:47:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 2020
 QLast Update : Wed Feb 26 03:37:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1135754	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2391945	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2447989	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1970992	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	417766	2.379	ppbv	92
3) Chlorodifluoromethane	2.95	51	262114	1.907	ppbv	97
4) Chloromethane	3.11	50	143840	1.738	ppbv	95
5) Vinyl Chloride	3.22	62	134301	1.744	ppbv	91
6) Bromomethane	3.44	94	81649	2.031	ppbv	93
7) Chloroethane	3.53	64	51411	1.816	ppbv	90
8) Dichlorotetrafluoroethane	3.15	85	335121	1.900	ppbv	100
9) Propene	2.97	41	104825	1.884	ppbv	97
10) Heptane	8.13	43	273734	1.872	ppbv	97
11) Trichlorofluoromethane	3.93	101	334396	1.877	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	233475	1.901	ppbv	98
13) Ethanol	3.58	45	25172	1.469	ppbv	82
14) Bromoethene	3.71	108	95258	1.880	ppbv	97
15) Acetone	3.83	43	282154	1.830	ppbv	96
16) 1,3-Butadiene	3.29	39	116569	1.778	ppbv	92
17) tert-Butyl alcohol	4.28	59	162465	1.386	ppbv	99
18) 1,1-Dichloroethene	4.27	96	104919	1.871	ppbv	81
19) Isopropyl Alcohol	3.95	45	127086m	1.199	ppbv	
20) Methylene Chloride	4.32	84	98267	1.741	ppbv	90
21) Allyl Chloride	4.39	41	176873	1.884	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	97468	1.772	ppbv	88
23) Vinyl Acetate	5.06	43	374975	1.964	ppbv	99
24) 1,1-Dichloroethane	5.00	63	288317	1.813	ppbv	98
25) Ethyl Acetate	5.67	43	488257	1.837	ppbv	98
26) Hexane	5.68	57	223883	1.897	ppbv	99
27) Carbon Disulfide	4.54	76	254039	1.895	ppbv #	93
28) Methyl tert-Butyl Ether	5.03	73	329147	1.931	ppbv	99
29) Chloroform	5.75	83	358087	1.907	ppbv	93
30) Cyclohexane	7.13	84	175091	1.938	ppbv	93
31) cis-1,2-Dichloroethene	5.54	61	212787	1.860	ppbv	94
32) 1,1,1-Trichloroethane	6.51	97	328387	1.909	ppbv	98
34) 2-Butanone	5.24	43	319284m	1.882	ppbv	
35) Carbon Tetrachloride	7.02	117	329261	1.807	ppbv	96
36) Benzene	6.90	78	431500	1.915	ppbv #	92
37) 1,2-Dichloroethane	6.31	62	275115	1.865	ppbv	99
38) Trichloroethene	7.85	130	165035	1.929	ppbv	89
39) 1,2-Dichloropropane	7.62	63	173766m	1.873	ppbv	
40) 1,4-Dioxane	7.86	88	52329m	1.510	ppbv	
41) Tetrahydrofuran	6.05	42	164339	1.851	ppbv	99
42) Bromodichloromethane	7.80	83	361085	1.887	ppbv	99
43) Methyl Methacrylate	8.03	69	184465	2.088	ppbv	99

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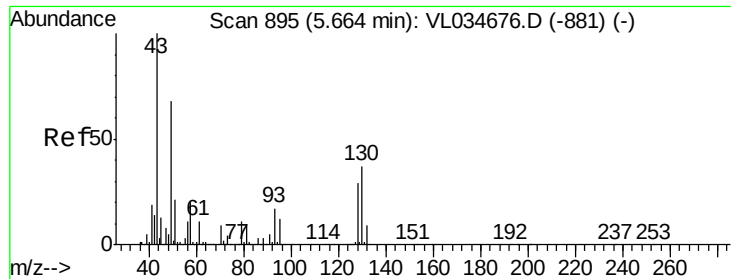
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	785592	1.939	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	195731	1.893	ppbv	90
46) cis-1,3-Dichloropropene	8.72	75	236979	1.959	ppbv #	87
47) 1,1,2-Trichloroethane	9.49	97	170441	1.739	ppbv	93
48) Dibromochloromethane	10.33	129	275589	1.831	ppbv	99
49) Bromoform	13.07	173	247147	1.878	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	445921	1.851	ppbv	99
51) 2-Hexanone	10.16	43	358602	1.887	ppbv #	97
52) Tetrachloroethene	11.25	164	149019	1.874	ppbv	87
53) Toluene	9.83	91	476009	1.964	ppbv	97
54) 1,2-Dibromoethane	10.64	107	268494	1.967	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	215023	2.009	ppbv #	1
57) Chlorobenzene	12.18	112	381786	1.887	ppbv	96
58) Ethyl Benzene	12.74	91	644993	1.980	ppbv	96
59) m/p-Xylene	13.02	91	1132875m	3.965	ppbv	
60) o-Xylene	13.72	91	560756	1.965	ppbv	97
61) Styrene	13.56	104	364608	1.870	ppbv	99
62) Isopropylbenzene	14.70	105	824189	2.180	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	406574	1.794	ppbv	99
64) n-propylbenzene	15.60	120	207577	2.163	ppbv	82
65) tert-Butylbenzene	16.78	119	739539	2.243	ppbv	99
66) Benzyl Chloride	17.03	91	254125m	1.997	ppbv	
67) sec-Butylbenzene	17.33	105	1059887m	2.251	ppbv	
69) p-Isopropyltoluene	17.69	119	876989	2.344	ppbv	98
70) n-Butylbenzene	18.59	91	956760m	2.389	ppbv	
71) 2-Chlorotoluene	15.49	91	632741	2.183	ppbv	98
72) 4-Ethyltoluene	15.88	105	640554	2.033	ppbv	98
73) 1,3,5-Trimethylbenzene	16.03	105	614384	2.057	ppbv	94
74) 1,2,4-Trimethylbenzene	16.80	105	673813	2.093	ppbv	98
75) 1,3-Dichlorobenzene	17.04	146	384349	2.034	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	380190	2.038	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	363864	1.999	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	331344	2.223	ppbv	99
79) Naphthalene	22.27	128	618784	2.526	ppbv	97
80) Naphthalene, 2-methyl-	25.02	142	218517	4.233	ppbv	95
81) 1,2,4-Trichlorobenzene	21.99	180	357916	2.393	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1135754

Ion Ratio Lower Upper

49 100

128 43.7 21.6 65.0

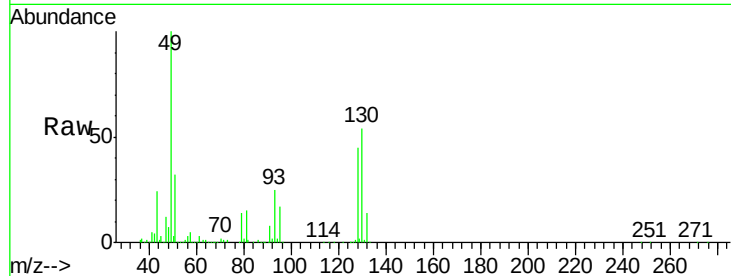
130 56.1 27.7 83.1

Manual Integrations

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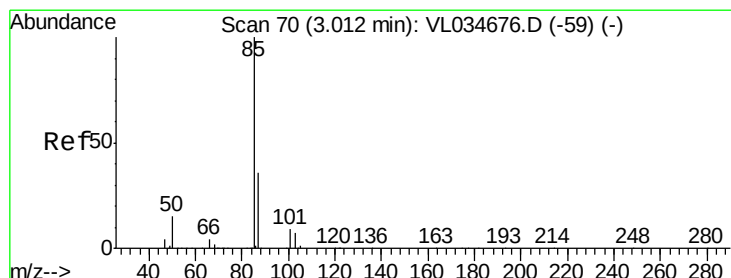
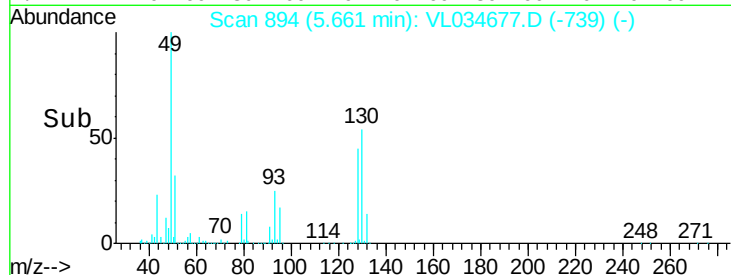
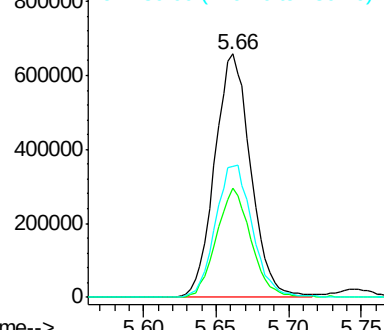
2/27/2020 5:19:13 PM



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: 2.379 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034677.D

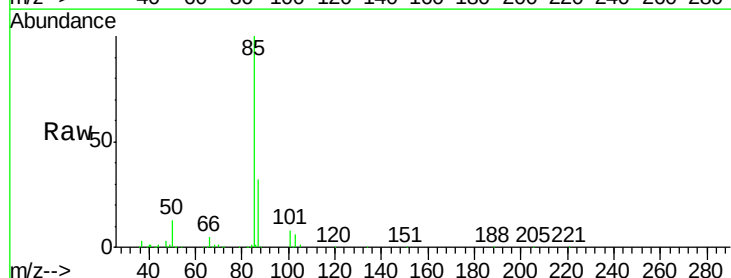
Acq: 26 Feb 2020 3:08

Tgt Ion: 85 Resp: 417766

Ion Ratio Lower Upper

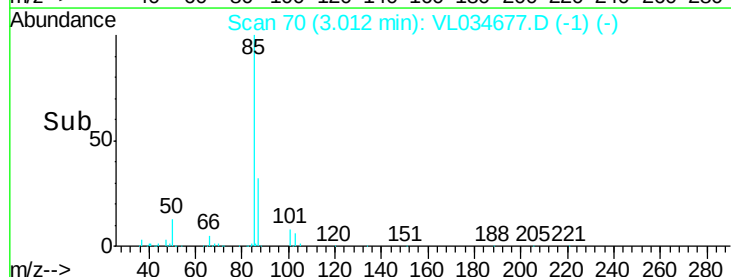
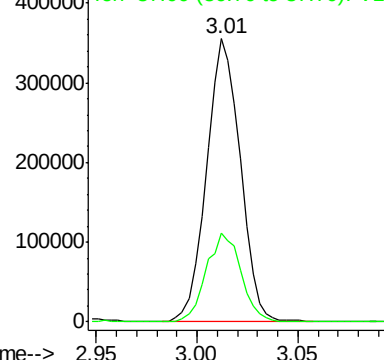
85 100

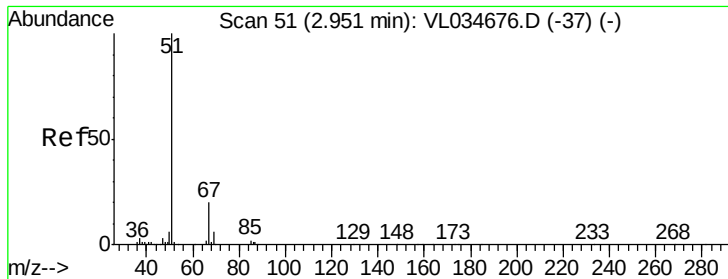
87 31.5 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.907 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 262114

Ion Ratio Lower Upper

51 100

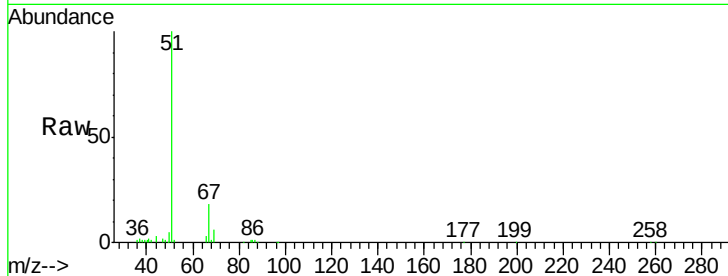
67 18.0 15.5 23.3

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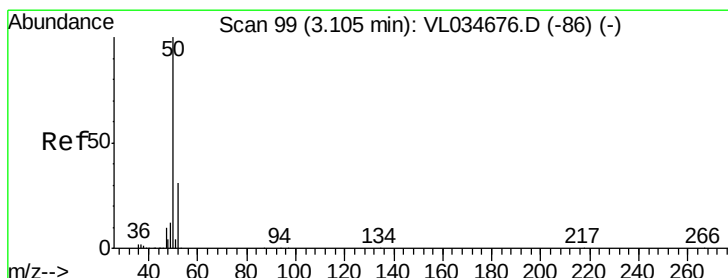
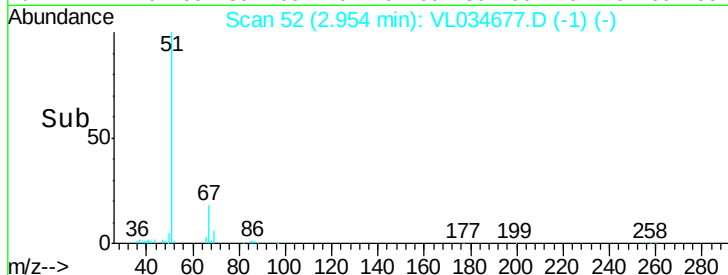
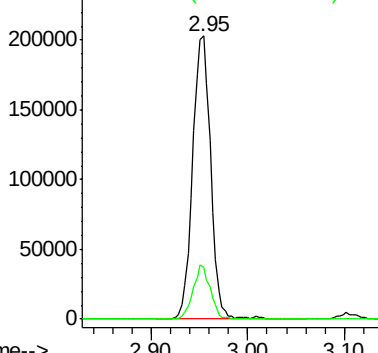
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.738 ppbv

RT: 3.11 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034677.D

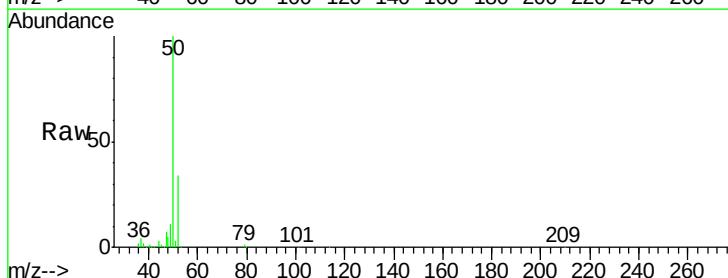
Acq: 26 Feb 2020 3:08

Tgt Ion: 50 Resp: 143840

Ion Ratio Lower Upper

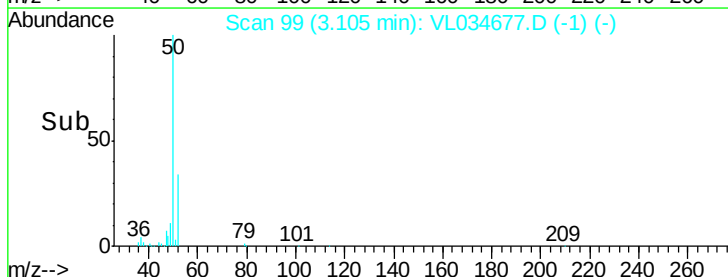
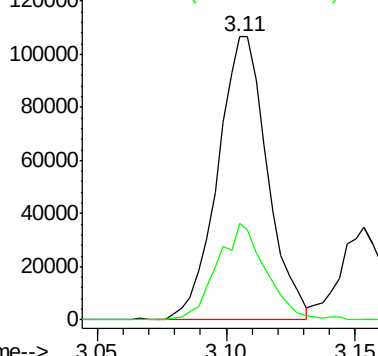
50 100

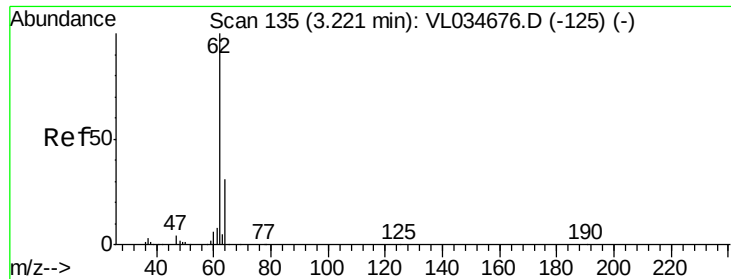
52 34.0 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.744 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 134301

Ion Ratio Lower Upper

62 100

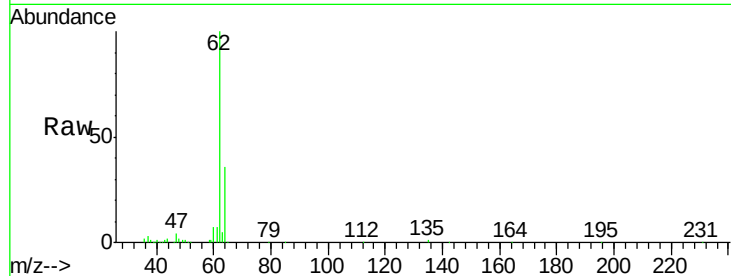
64 35.9 24.7 37.1

Manual Integrations

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2/27/2020 5:19:13 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

120000

100000

80000

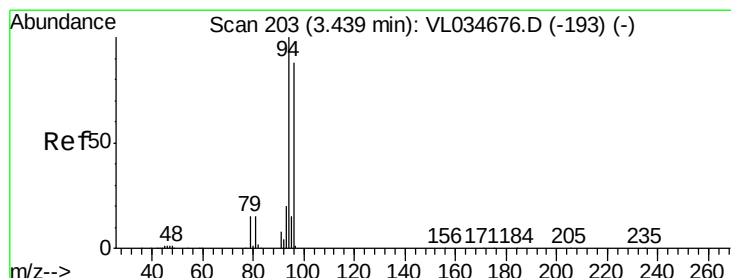
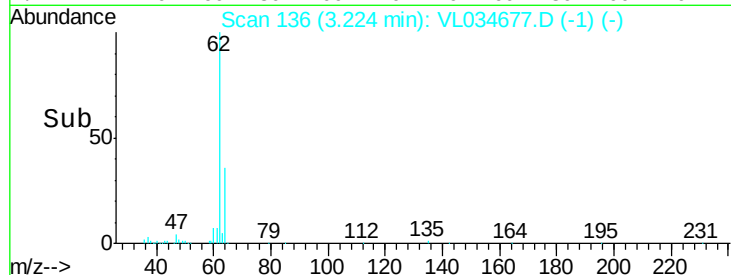
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 2.031 ppbv

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034677.D

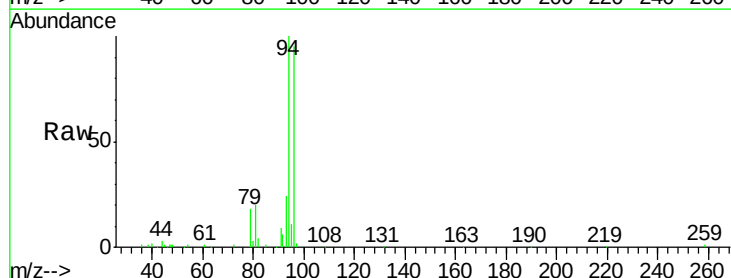
Acq: 26 Feb 2020 3:08

Tgt Ion: 94 Resp: 81649

Ion Ratio Lower Upper

94 100

96 94.3 70.5 105.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.44

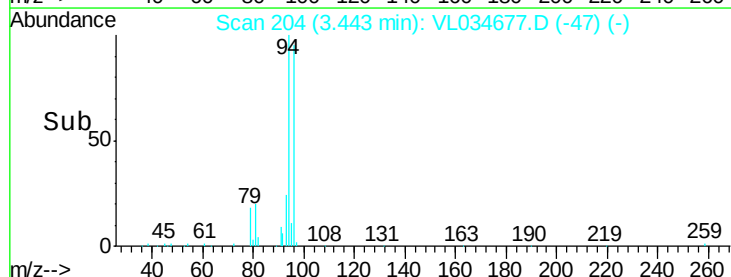
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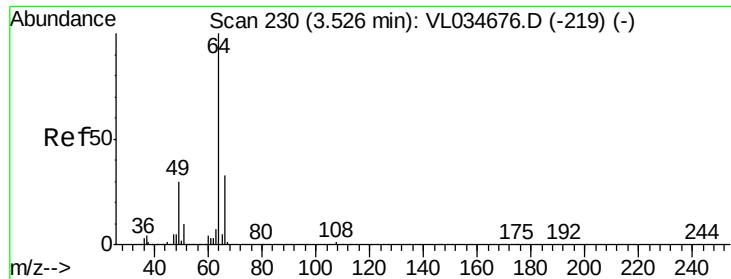
40000

20000

0

Time-->





#7

Chloroethane

Concen: 1.816 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 51411

Ion Ratio Lower Upper

64 100

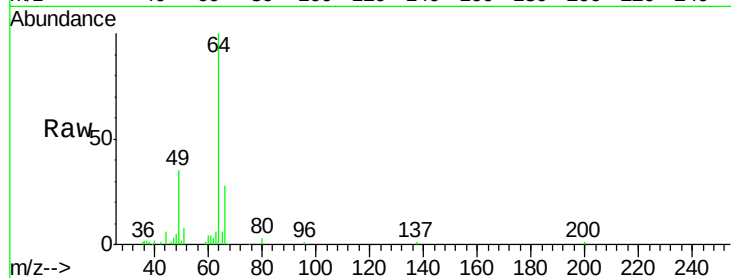
66 27.8 26.7 40.1

Manual Integrations

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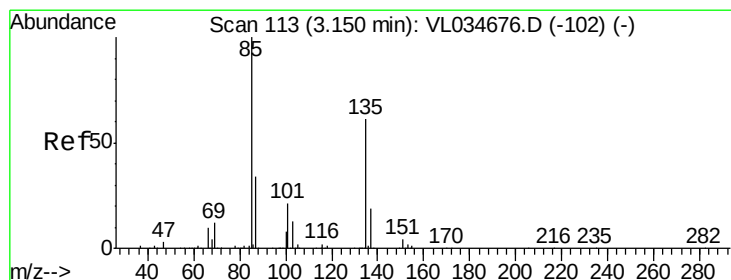
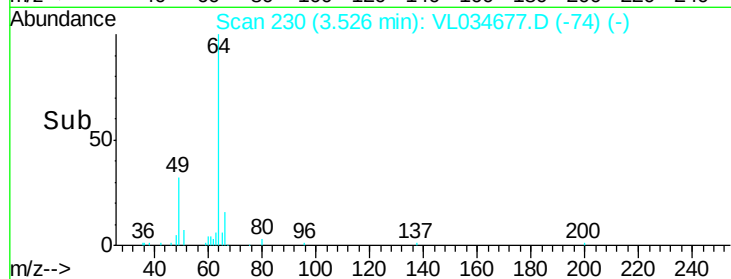
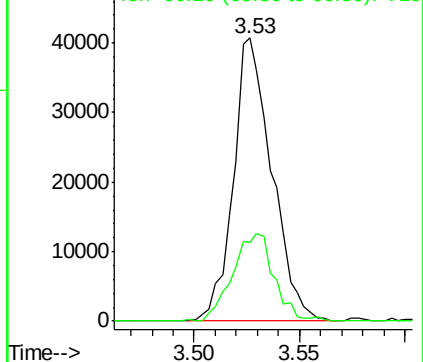
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2/27/2020 5:19:13 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.900 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034677.D

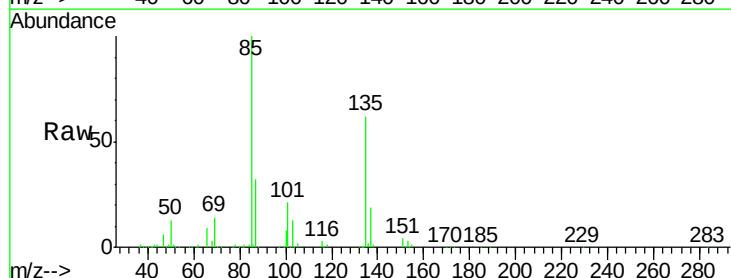
Acq: 26 Feb 2020 3:08

Tgt Ion: 85 Resp: 335121

Ion Ratio Lower Upper

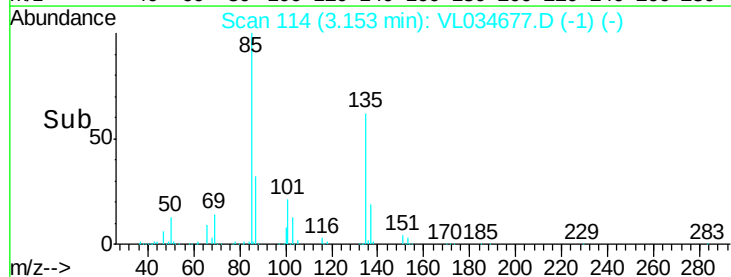
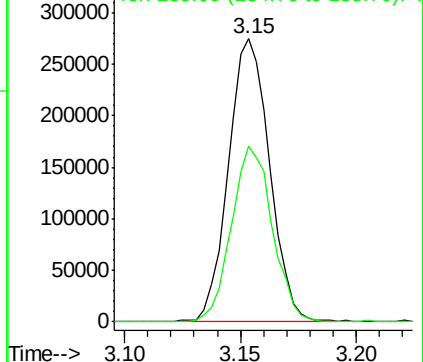
85 100

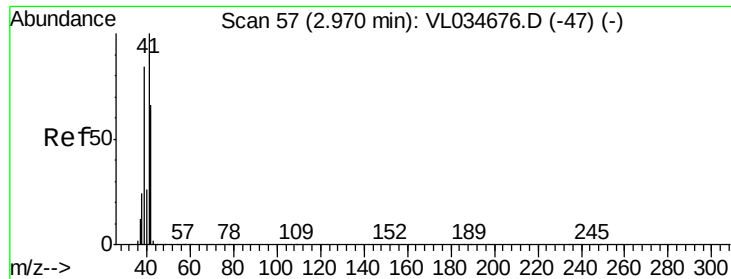
135 62.2 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.884 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

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VSTDIC002

Tot Ion: 41 Resp: 104825

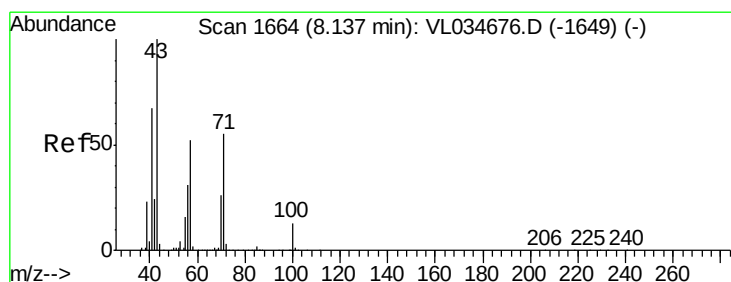
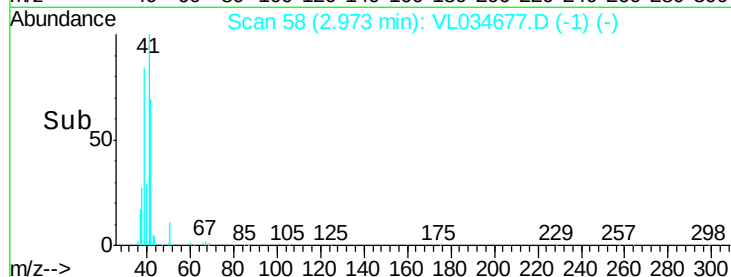
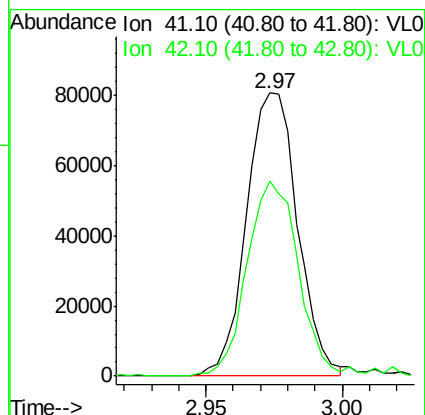
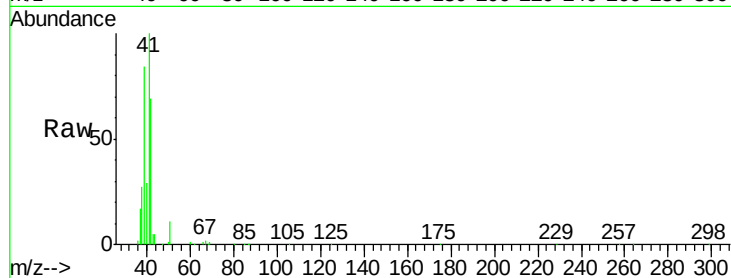
Ion Ratio Lower Upper

41 100

42 71.1 54.9 82.3

Manual Integrations
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2/27/2020 5:19:13 PM



#10

Heptane

Concen: 1.872 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034677.D

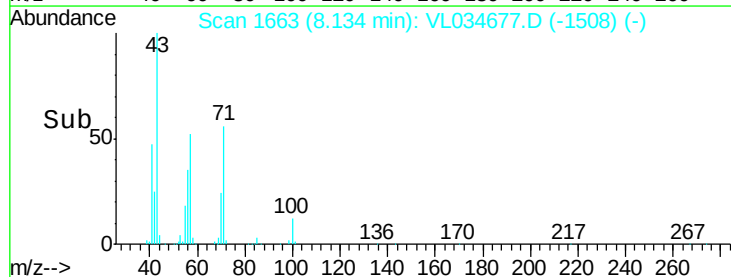
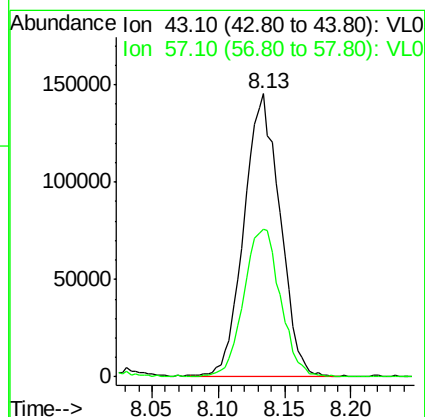
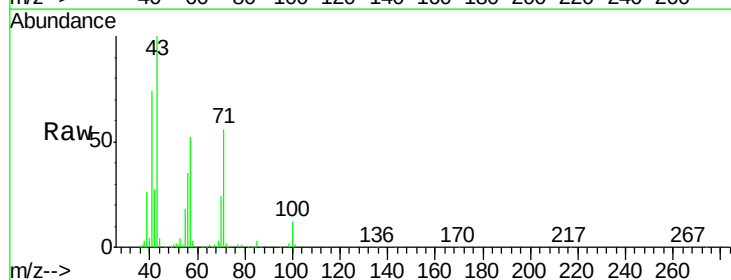
Acq: 26 Feb 2020 3:08

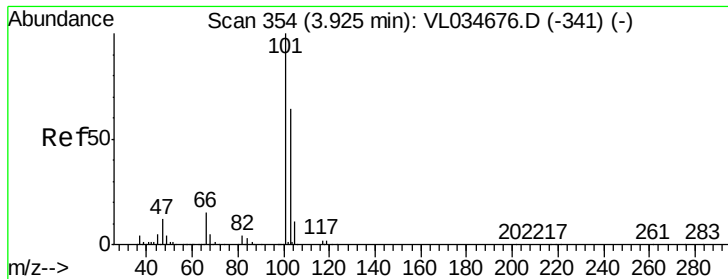
Tgt Ion: 43 Resp: 273734

Ion Ratio Lower Upper

43 100

57 53.3 41.0 61.6





#11

Trichlorofluoromethane

Concen: 1.877 ppbv

RT: 3.93 min Scan# 354

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 334396

Ion Ratio Lower Upper

101 100

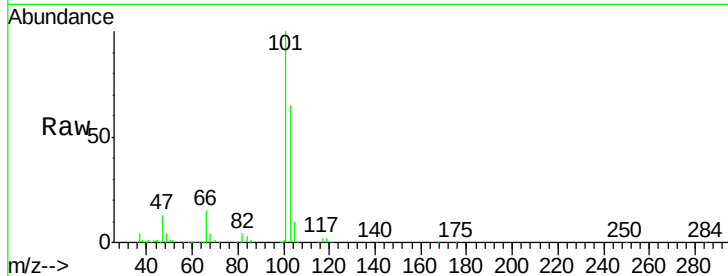
103 64.5 51.2 76.8

Manual Integrations

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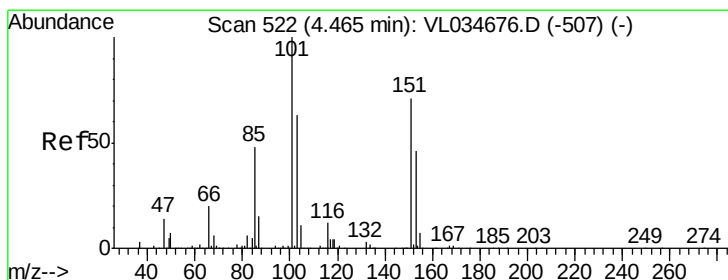
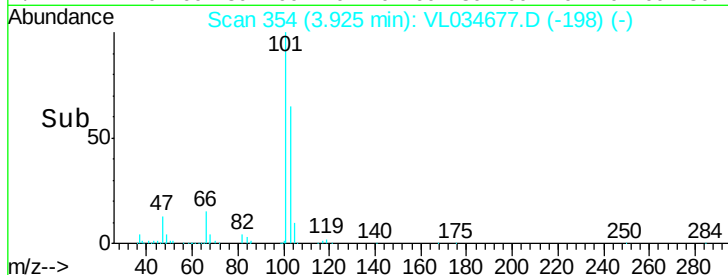
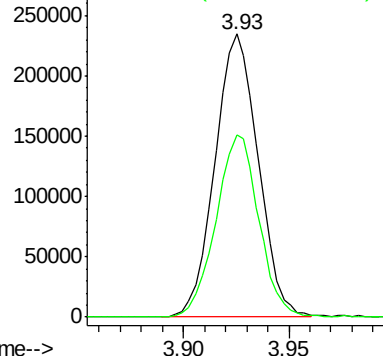
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.901 ppbv

RT: 4.47 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL034677.D

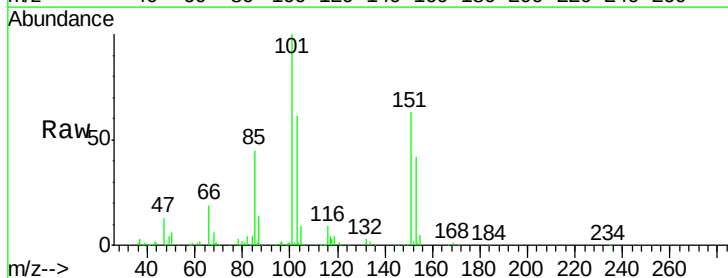
Acq: 26 Feb 2020 3:08

Tgt Ion:101 Resp: 233475

Ion Ratio Lower Upper

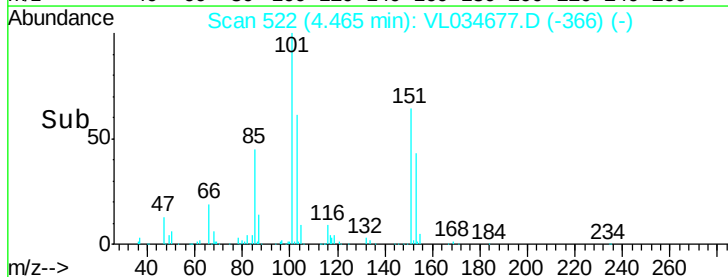
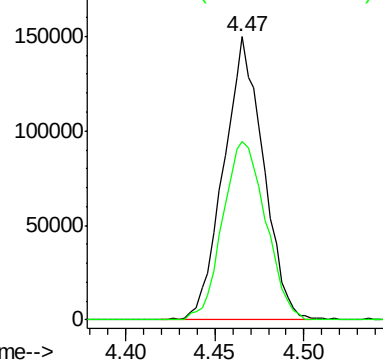
101 100

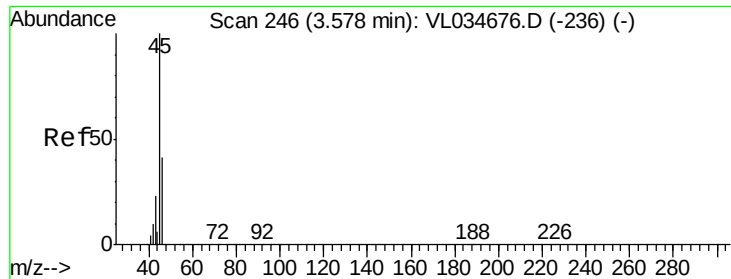
151 67.9 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





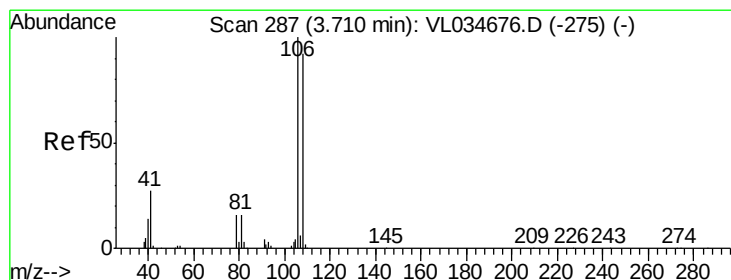
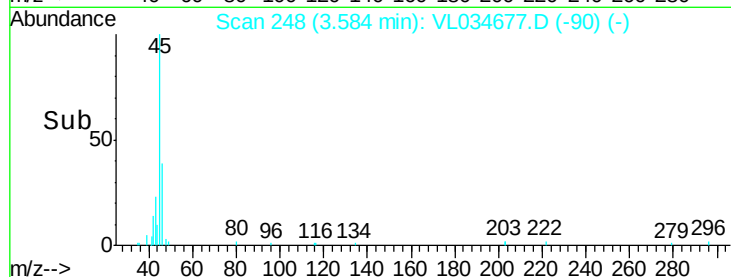
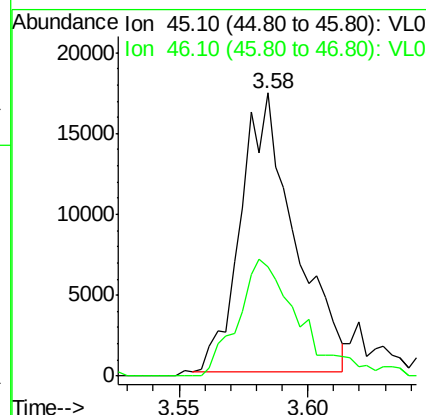
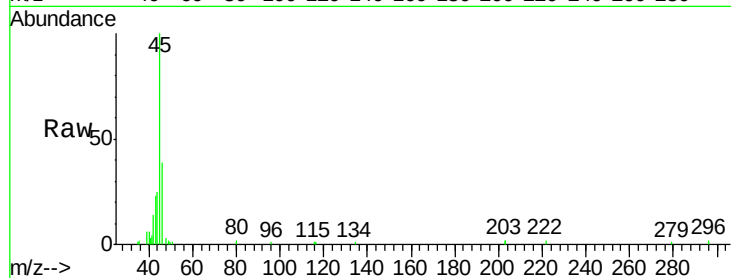
#13
Ethanol
Concen: 1.469 ppbv
RT: 3.58 min Scan# 248
Delta R.T. 0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	45	Resp	25172
Ion Ratio	100	Lower	Upper
46	49.1	15.4	61.4

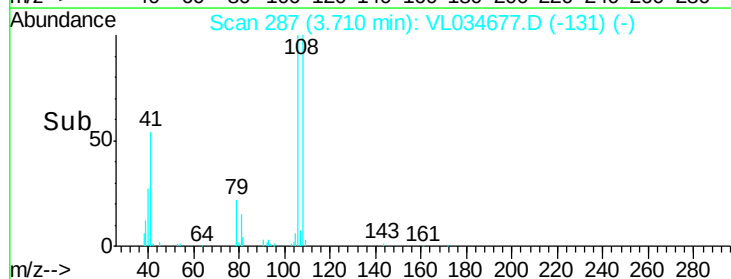
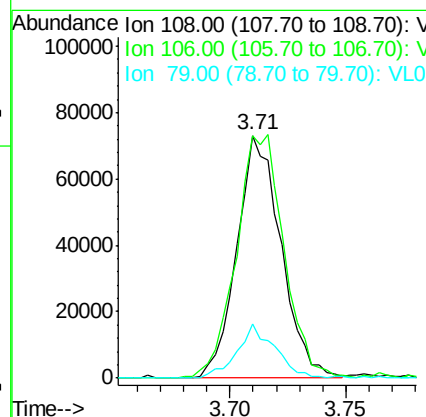
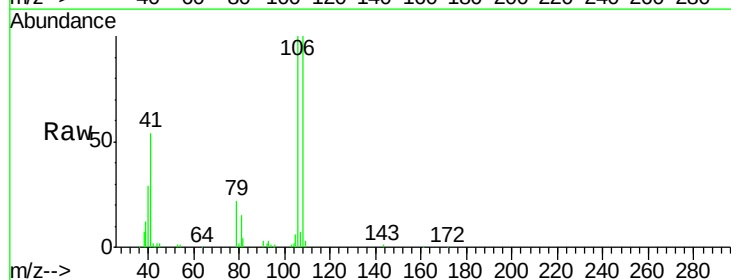
Manual Integrations
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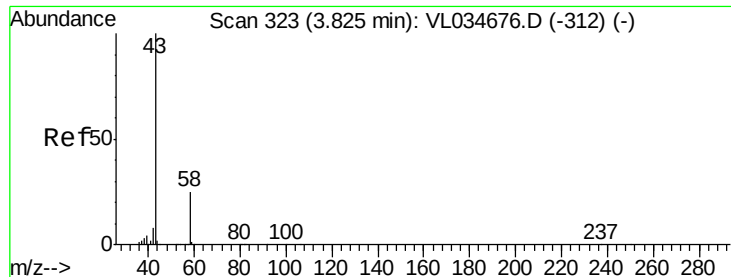
MMDadoda
2/27/2020 5:19:13 PM



#14
Bromoethene
Concen: 1.880 ppbv
RT: 3.71 min Scan# 287
Delta R.T. 0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion	108	Resp	95258
Ion Ratio	100	Lower	Upper
106	111.7	86.7	130.1
79	20.0	15.0	22.6





#15

Acetone

Concen: 1.830 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 282154

Ion Ratio Lower Upper

43 100

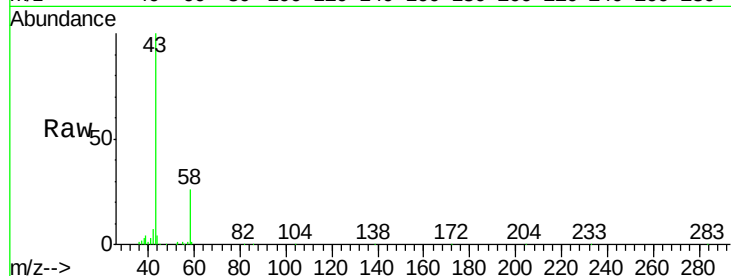
58 29.0 21.4 32.0

Manual Integrations

APPROVED

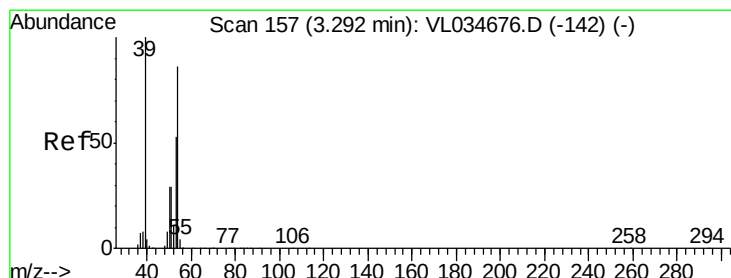
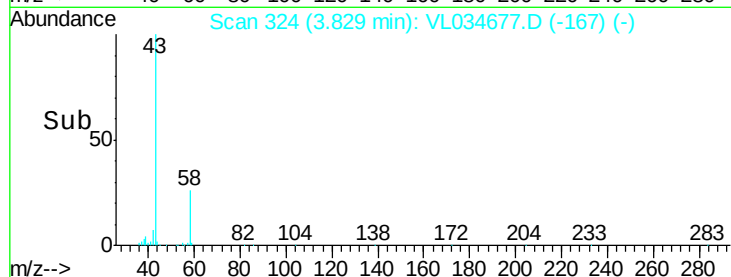
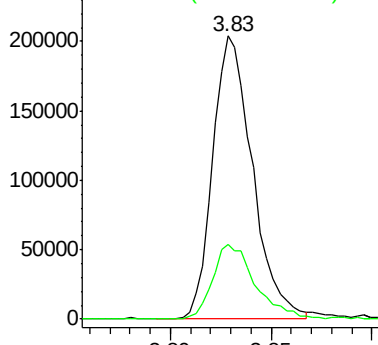
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 1.778 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034677.D

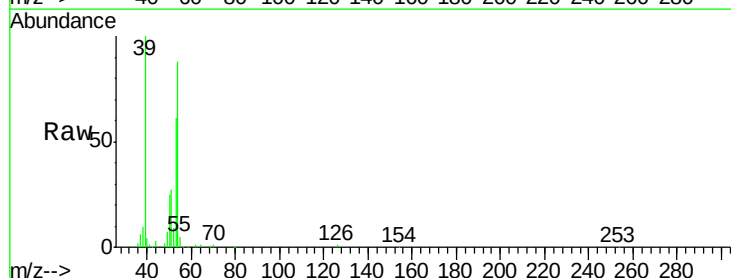
Acq: 26 Feb 2020 3:08

Tgt Ion: 39 Resp: 116569

Ion Ratio Lower Upper

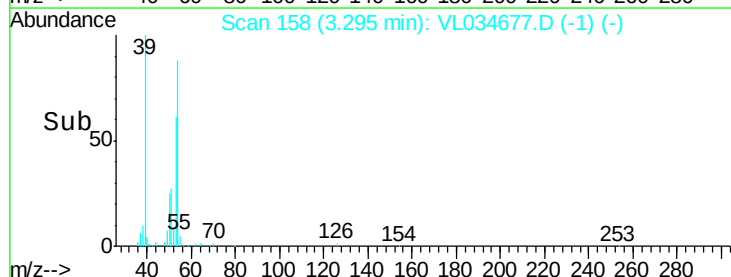
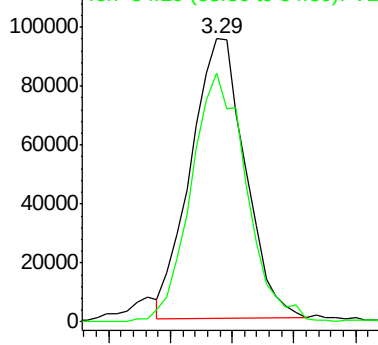
39 100

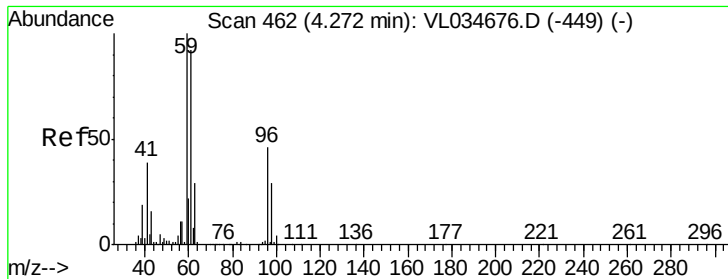
54 91.0 67.0 100.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





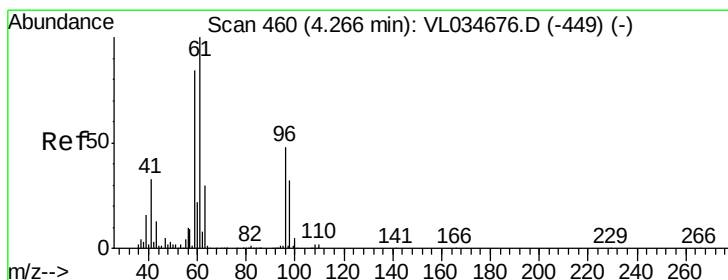
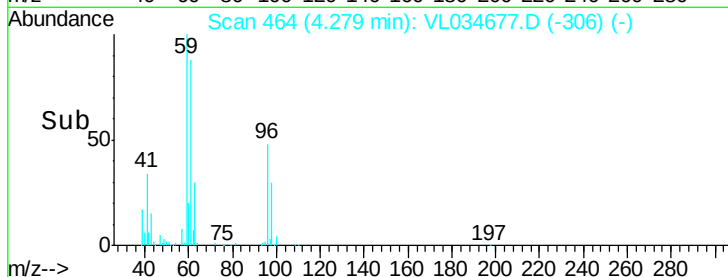
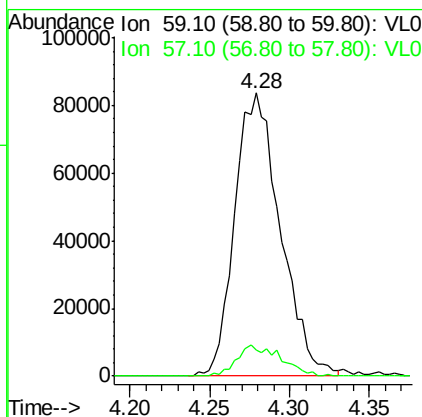
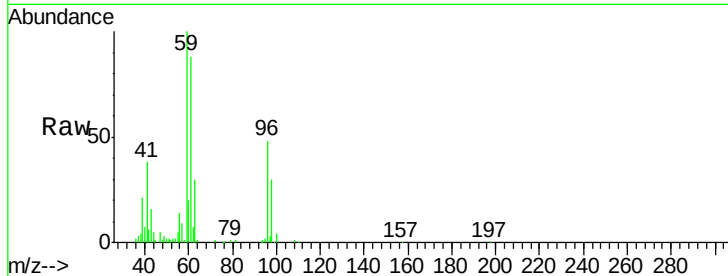
#17
 tert-Butyl alcohol
 Concen: 1.386 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. 0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.8	13.2

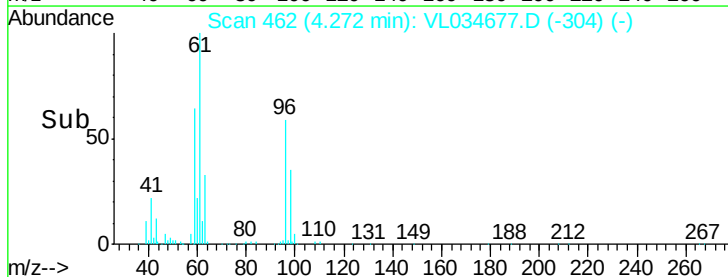
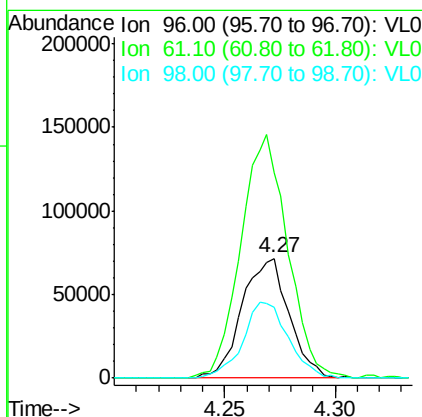
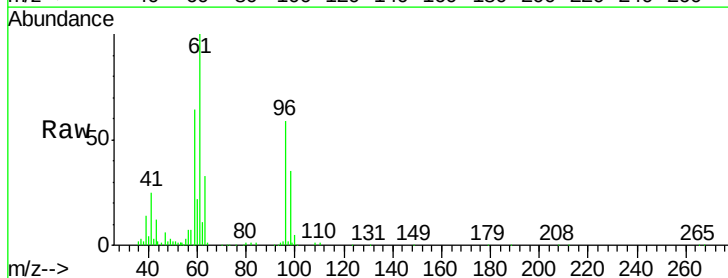
Manual Integrations
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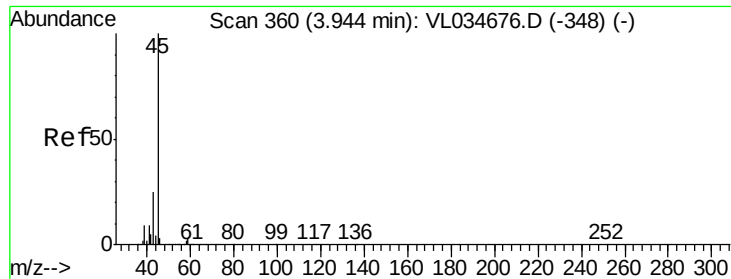
MMDadoda
 2/27/2020 5:19:13 PM



#18
 1,1-Dichloroethene
 Concen: 1.871 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. 0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.0	165.1	247.7
98	60.5	52.7	79.1





#19

Isopropyl Alcohol

Concen: 1.199 ppbv m

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 127086

Ion Ratio Lower Upper

45 100

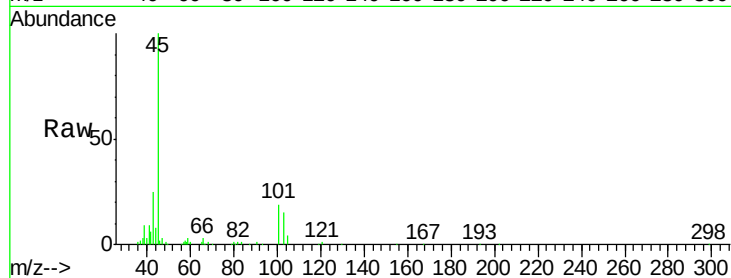
58 4.6 1.8 2.6#

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

80000

60000

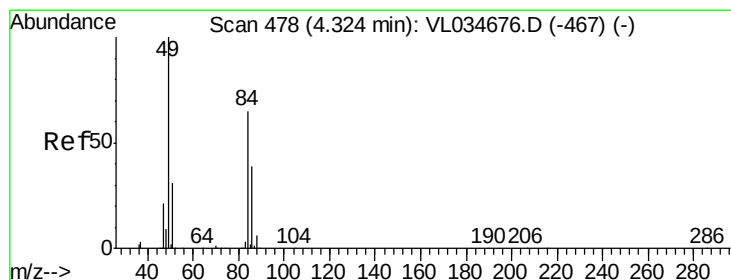
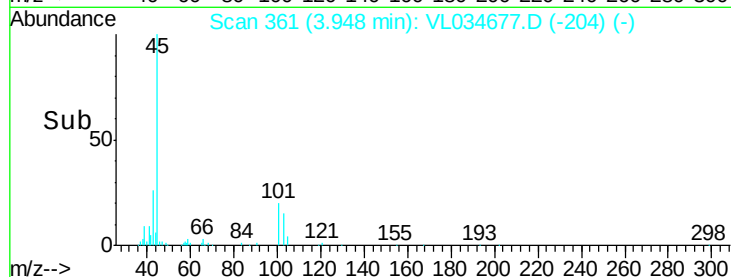
40000

20000

0

Time-->

3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 1.741 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion: 84 Resp: 98267

Ion Ratio Lower Upper

84 100

49 167.9 122.8 184.2

51 40.9 38.6 58.0

86 63.5 47.7 71.5

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

150000

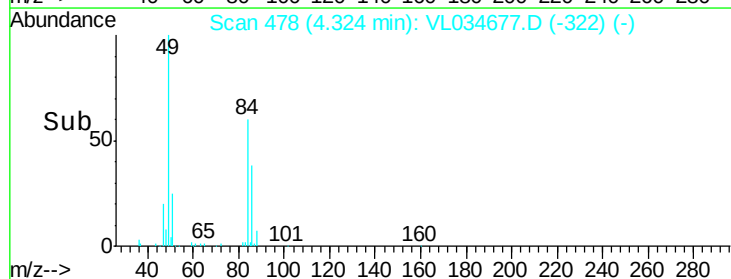
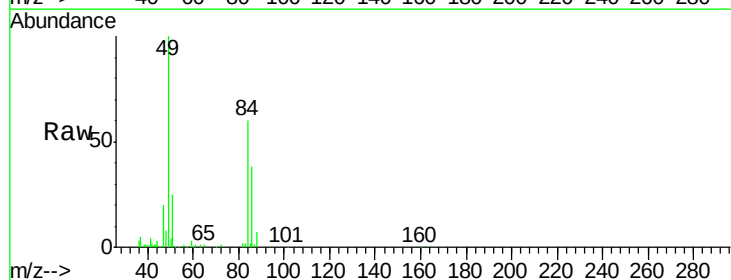
100000

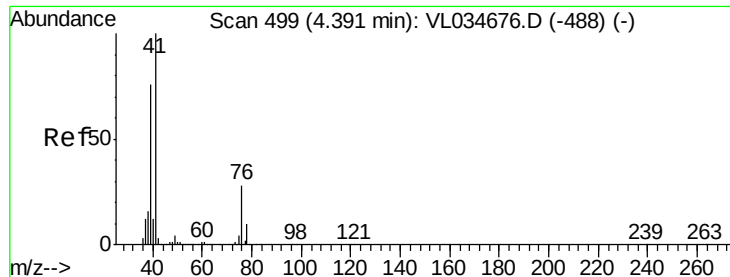
50000

0

Time-->

4.30 4.32 4.35





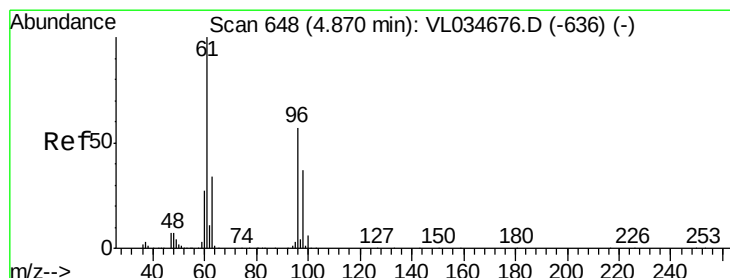
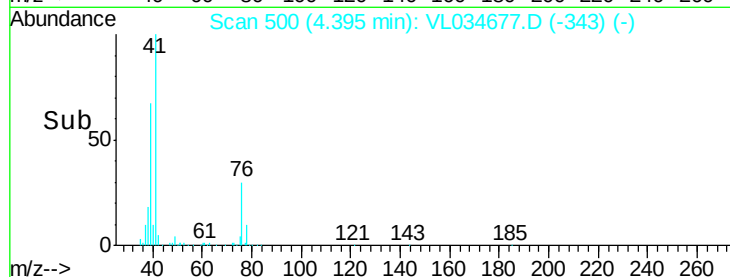
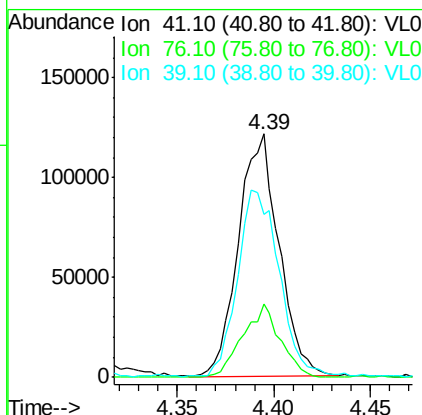
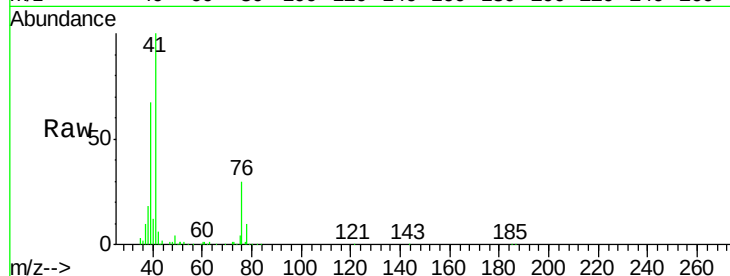
#21
 Allvl Chloride
 Concen: 1.884 ppbv
 RT: 4.39 min Scan# 500
 Delta R.T. 0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.1	22.8	34.2
39	80.4	61.7	92.5

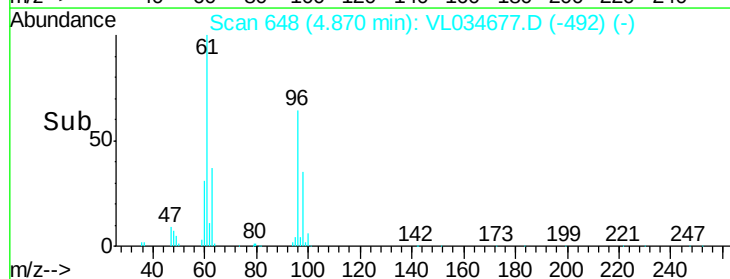
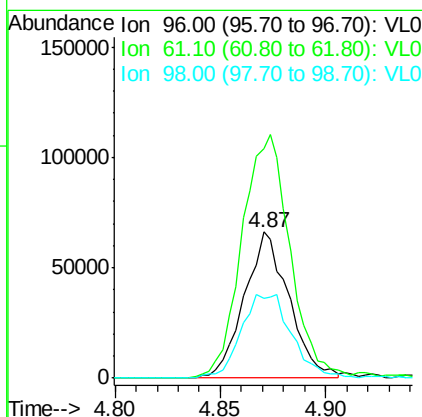
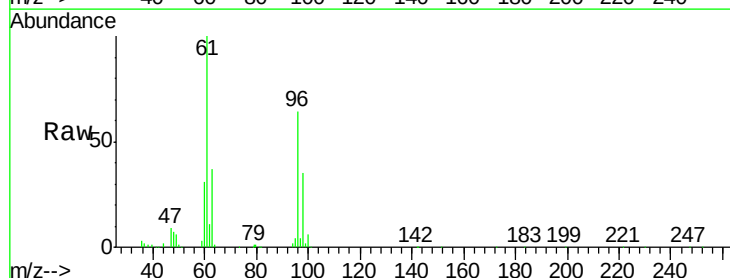
Manual Integrations
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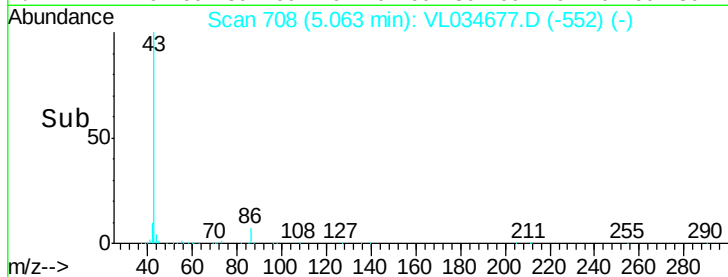
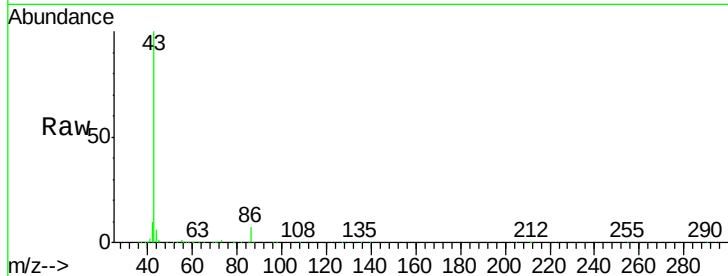
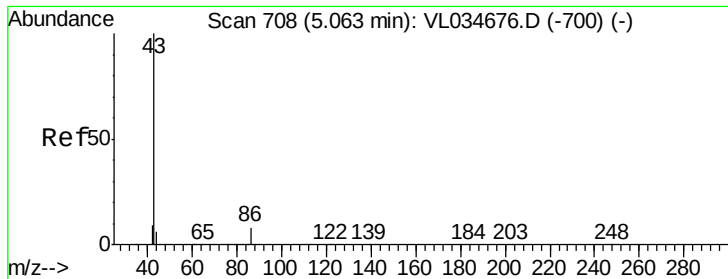
MMDadoda
 2/27/2020 5:19:13 PM



#22
 trans-1,2-Dichloroethene
 Concen: 1.772 ppbv
 RT: 4.87 min Scan# 648
 Delta R.T. 0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.2	139.4	209.0
98	54.8	51.3	76.9





#23

Vinyl Acetate

Concen: 1.964 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		374975		
86	7.4	6.0	9.0		
42	9.6	8.0	12.0		
44	5.6	4.5	6.7		

Instrument :

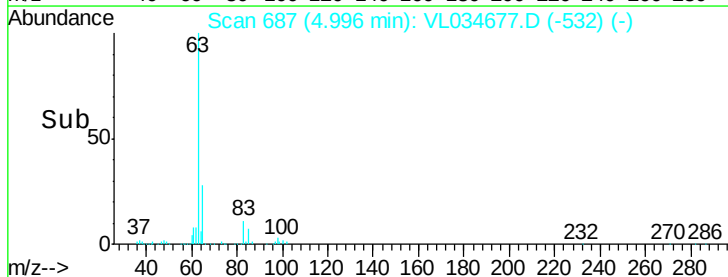
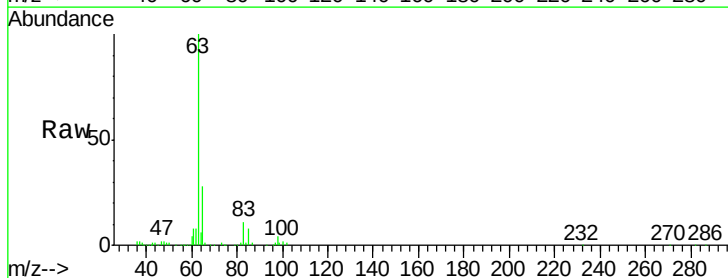
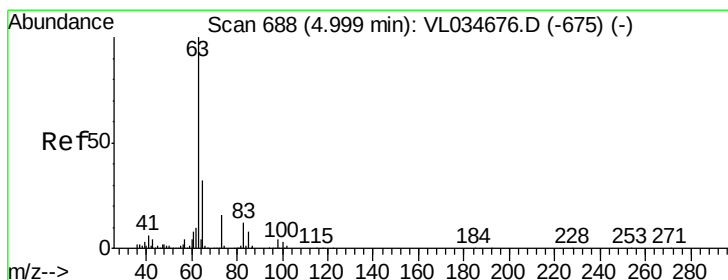
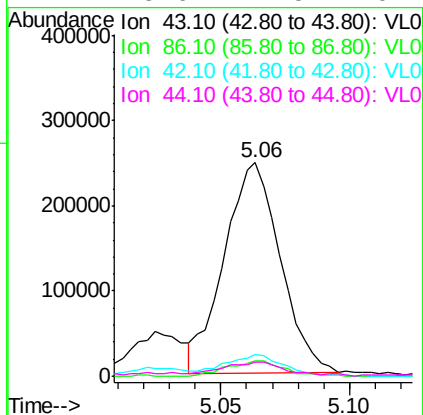
MSVOA_L

ClientSampleId :

VSTDIC002

Manual Integrations
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MMDadoda
2/27/2020 5:19:13 PM



#24

1,1-Dichloroethane

Concen: 1.813 ppbv

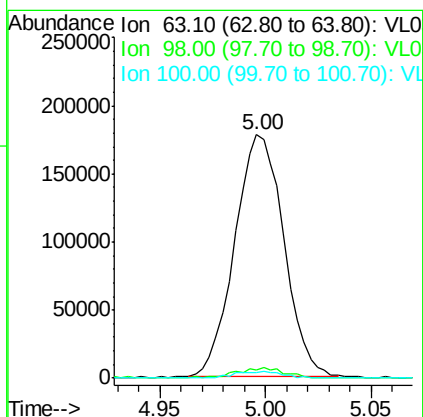
RT: 5.00 min Scan# 687

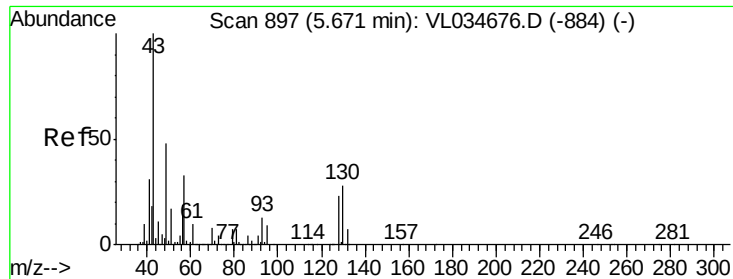
Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		288317		
98	3.4	2.1	6.2		
100	2.1	1.4	4.0		





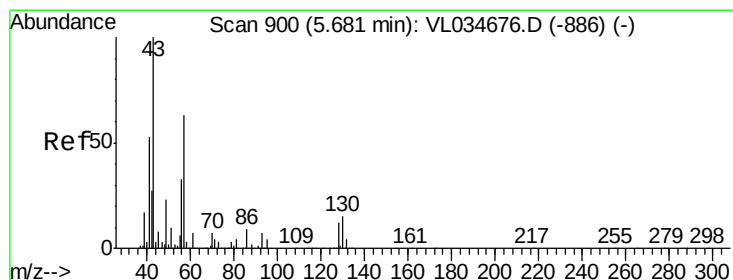
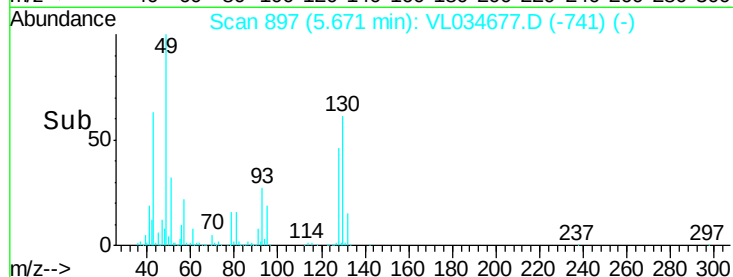
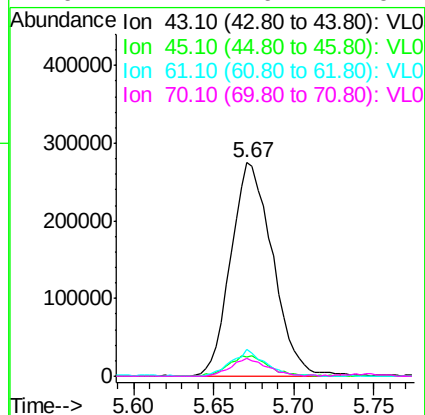
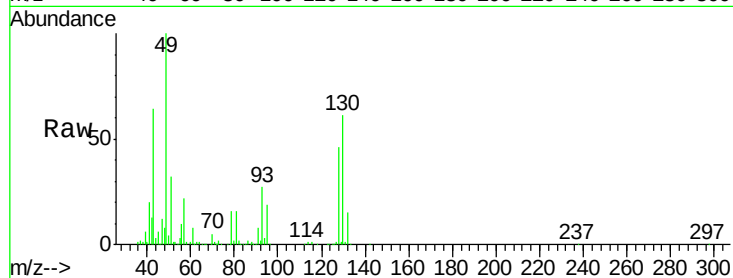
#25
Ethyl Acetate
Concen: 1.837 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.4	8.2	12.4	
61	10.3	7.8	11.6	
70	7.2	6.1	9.1	

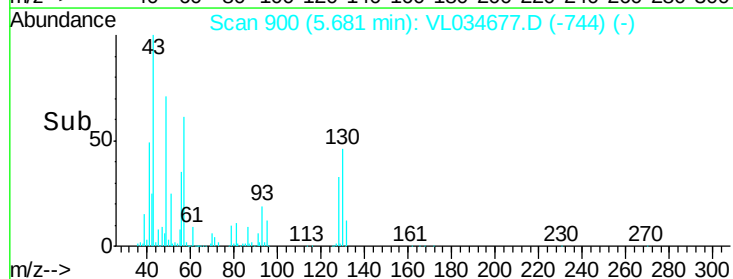
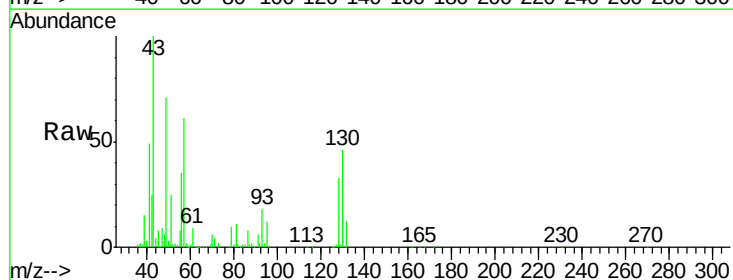
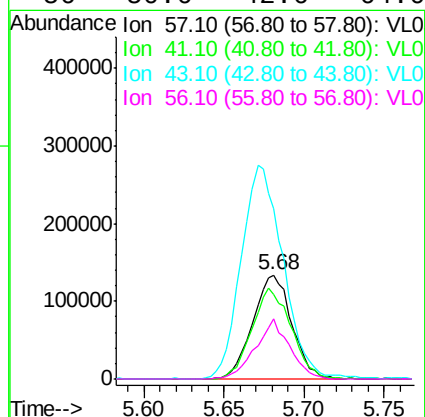
Manual Integrations
APPROVED

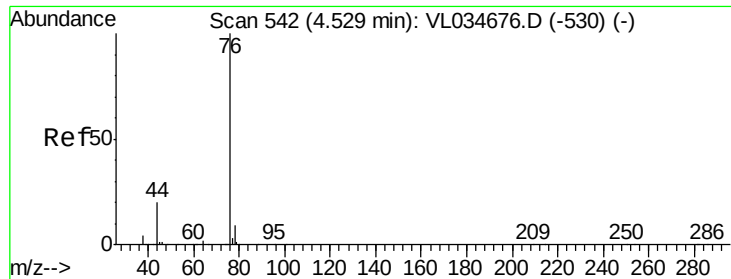
MMDadoda
2/27/2020 5:19:13 PM



#26
Hexane
Concen: 1.897 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.7	70.3	105.5	
43	220.0	177.0	265.4	
56	50.6	42.6	64.0	





#27

Carbon Disulfide

Concen: 1.895 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

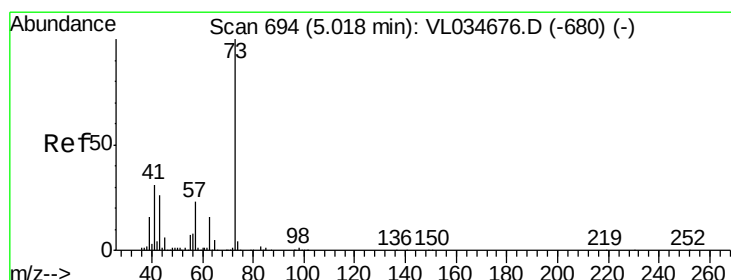
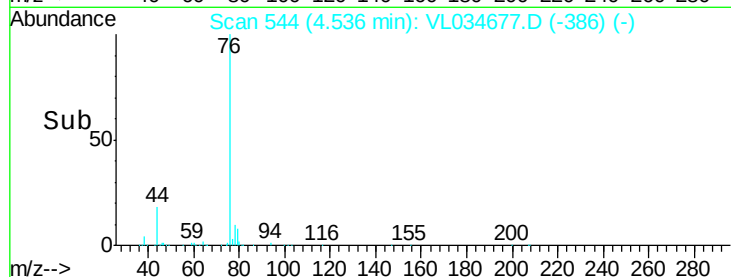
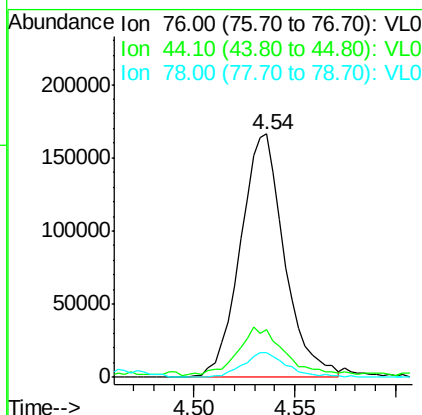
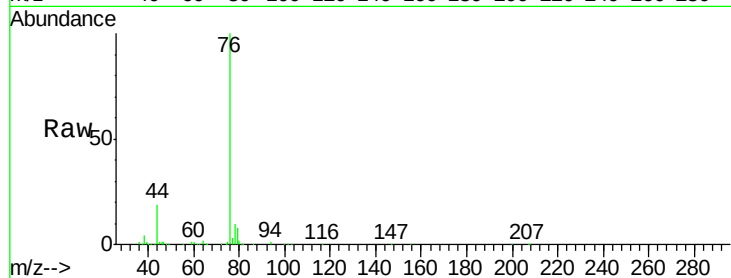
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	254039
Ion Ratio	Lower	Upper	
76	100		
44	23.3	15.3	22.9#
78	10.4	7.6	11.4

Manual Integrations
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2/27/2020 5:19:13 PM



#28

Methyl tert-Butyl Ether

Concen: 1.931 ppbv

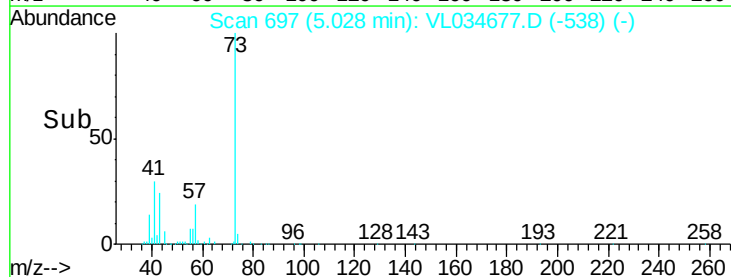
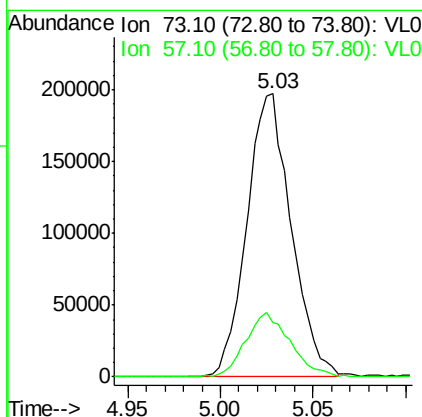
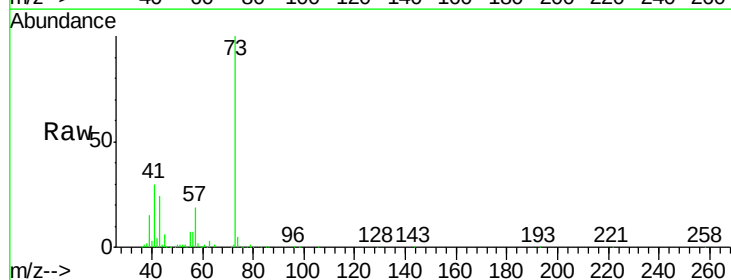
RT: 5.03 min Scan# 697

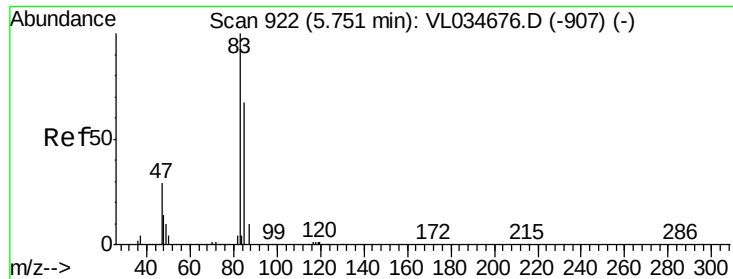
Delta R.T. 0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:	73	Resp:	329147
Ion Ratio	Lower	Upper	
73	100		
57	22.9	18.6	28.0





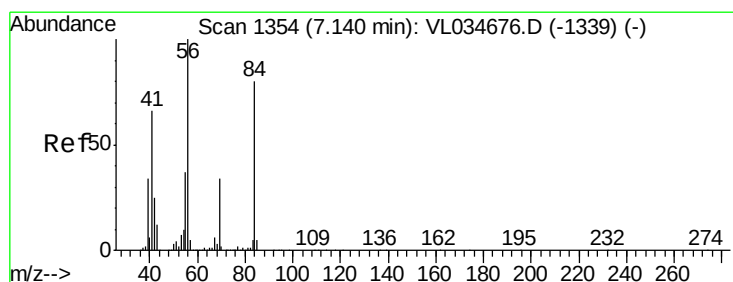
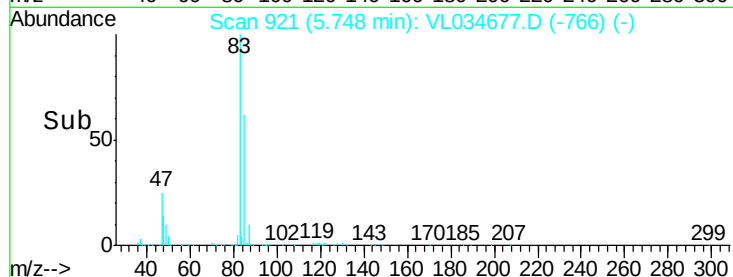
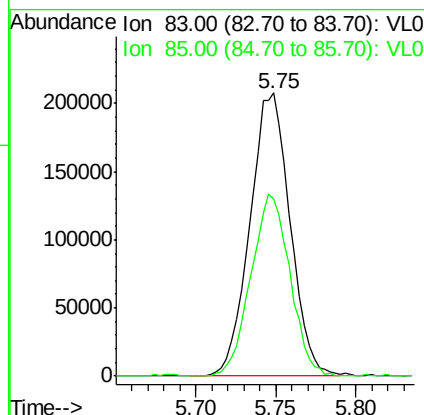
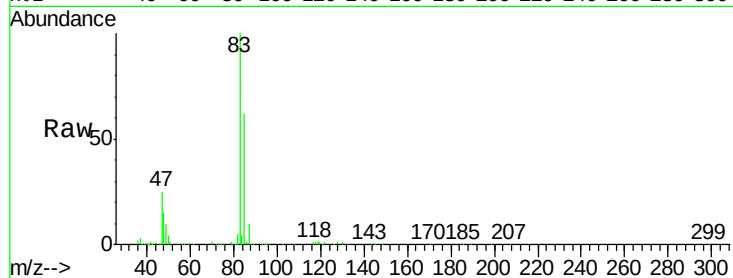
#29
Chloroform
Concen: 1.907 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	358087
Ion Ratio	Lower	Upper	
83	100		
85	62.2	53.9	80.9

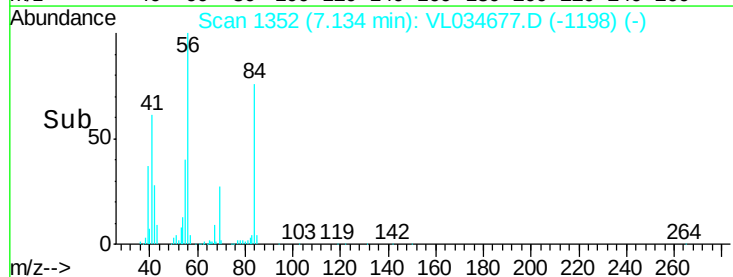
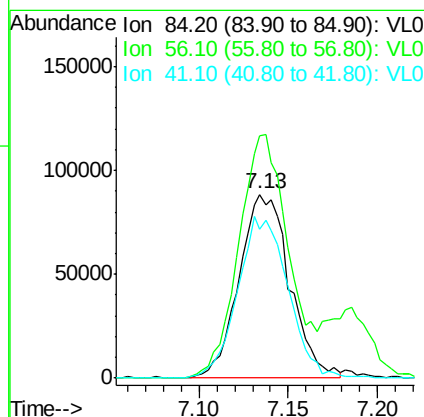
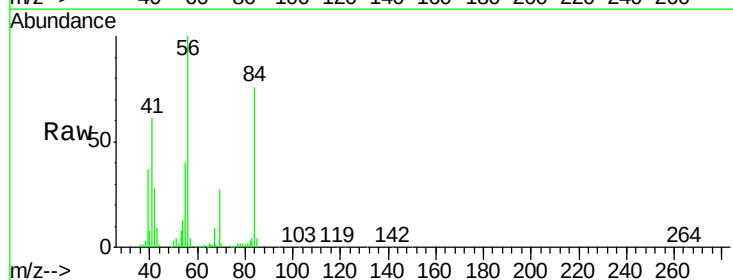
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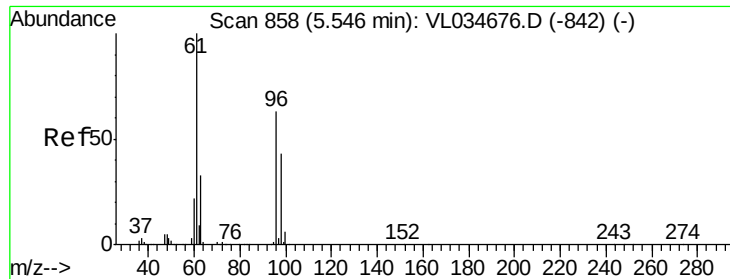
MMDadoda
2/27/2020 5:19:13 PM



#30
Cyclohexane
Concen: 1.938 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion	84	Resp	175091
Ion Ratio	Lower	Upper	
84	100		
56	130.6	113.4	170.2
41	87.5	68.2	102.4





#31

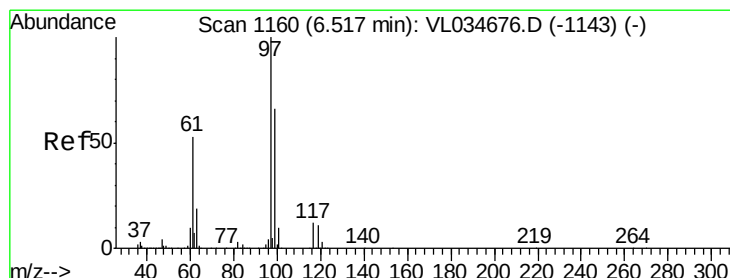
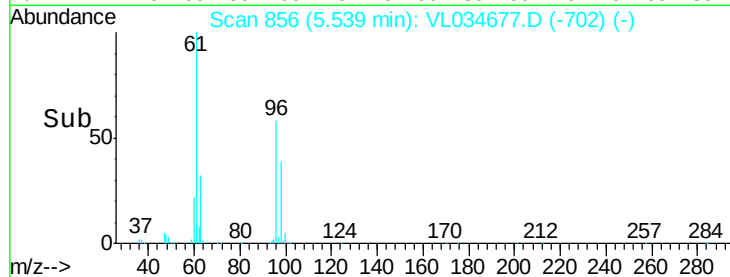
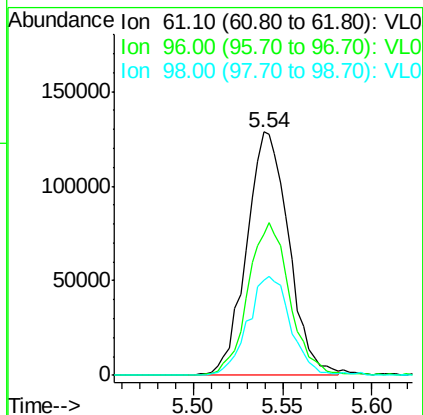
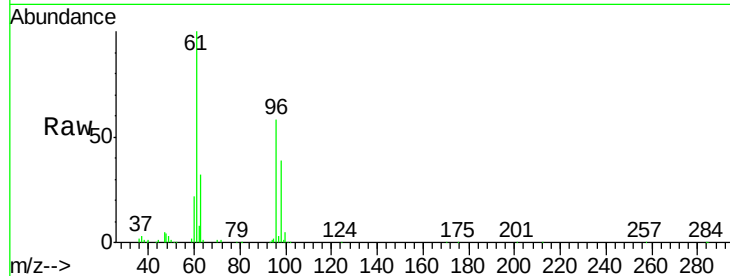
cis-1,2-Dichloroethene
 Concen: 1.860 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.9	50.2	75.2
98	38.9	34.3	51.5

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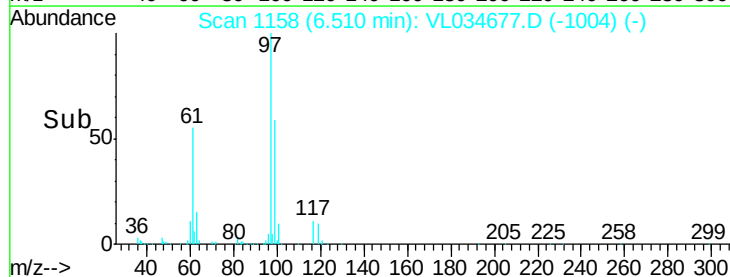
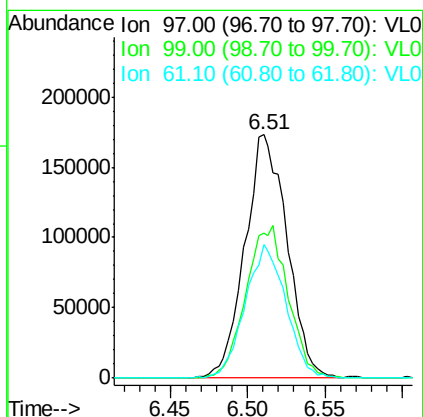
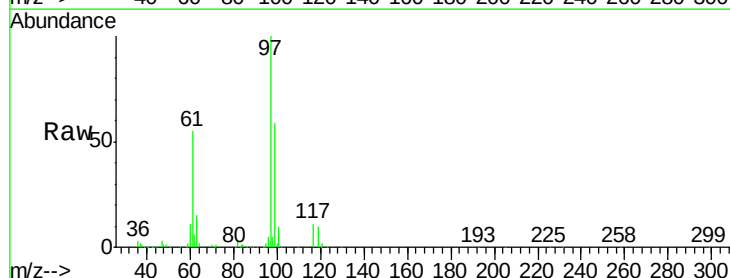
MMDadoda
 2/27/2020 5:19:13 PM

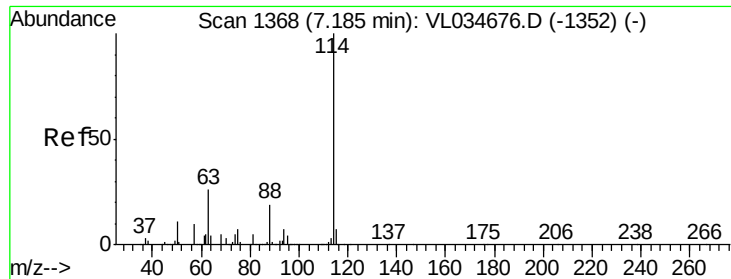


#32

1,1,1-Trichloroethane
 Concen: 1.909 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. -0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	52.3	78.5
61	53.2	42.8	64.2





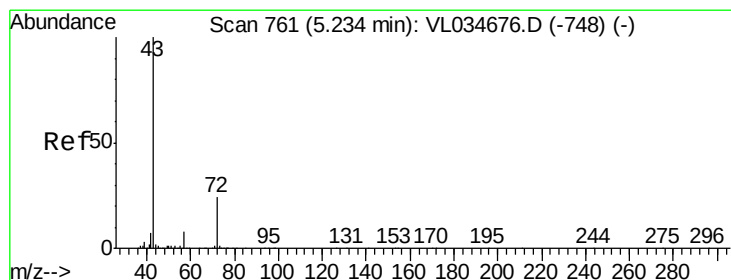
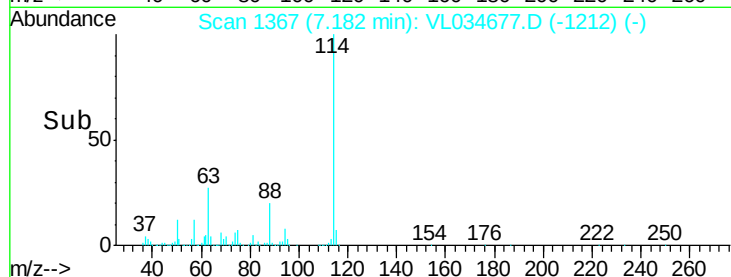
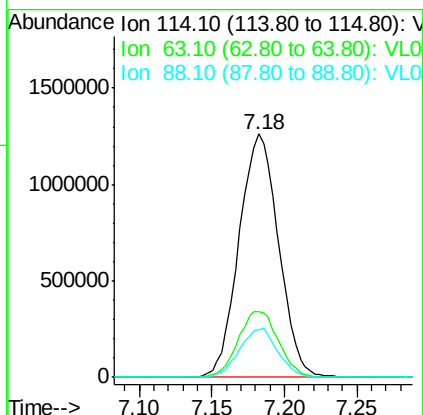
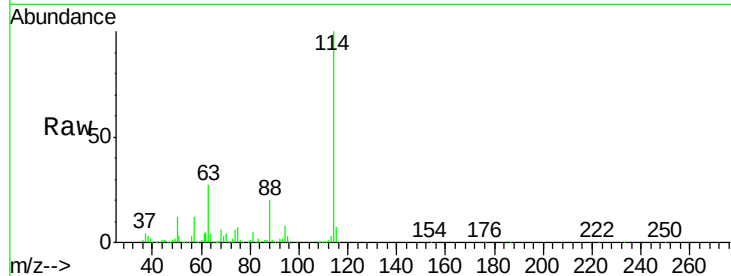
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.9	34.3
88	19.5	15.8	23.6

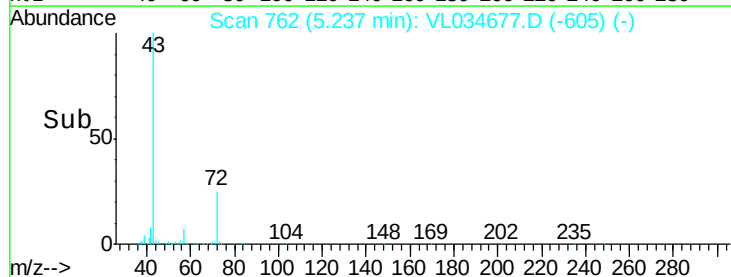
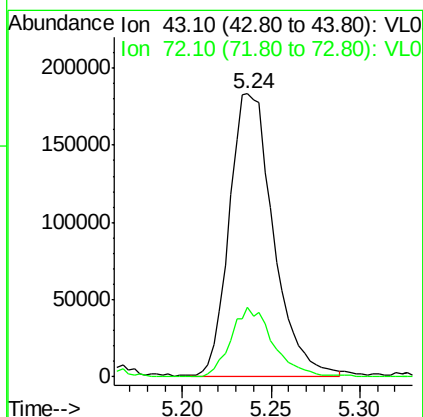
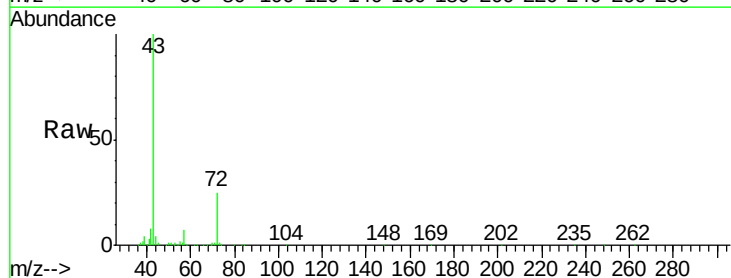
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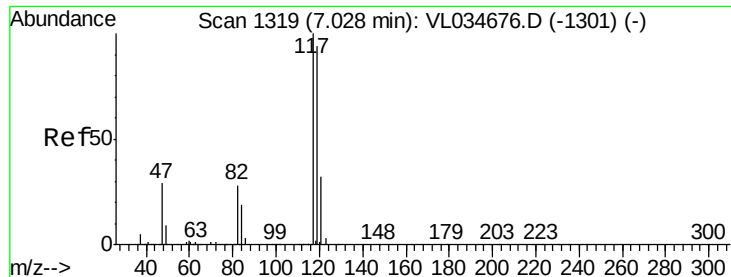
MMDadoda
 2/27/2020 5:19:13 PM



#34
 2-Butanone
 Concen: 1.882 ppbv m
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.2	27.2





#35

Carbon Tetrachloride

Concen: 1.807 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

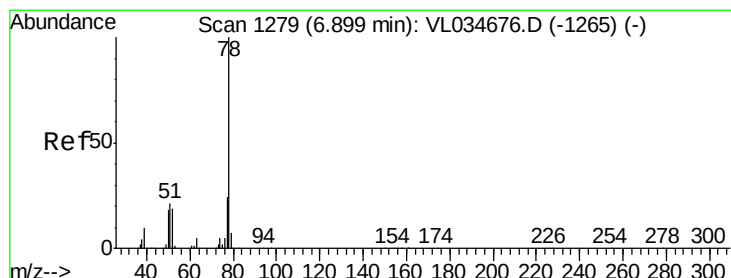
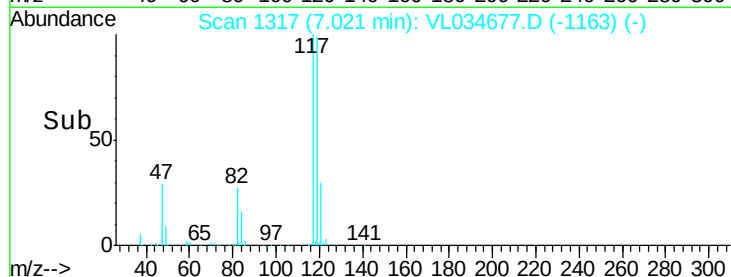
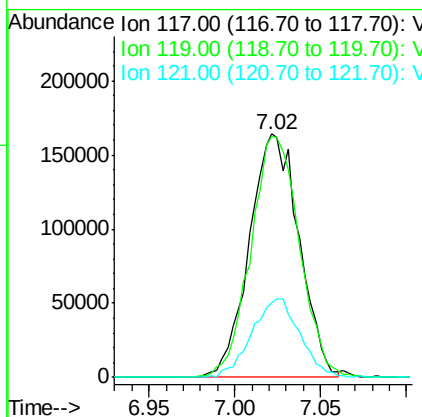
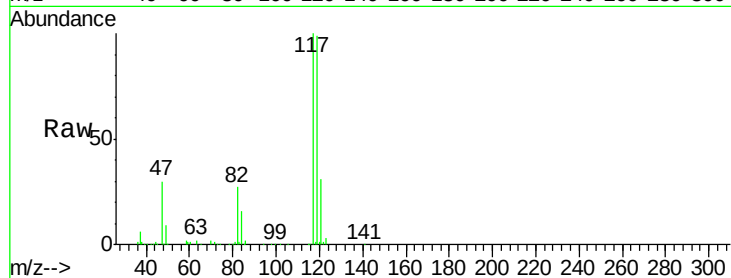
ClientSampleId :

VSTDIC002

Tot Ion:117	Resp:	329261
Ion Ratio	Lower	Upper
117 100		
119 98.9	75.5	113.3
121 30.9	25.4	38.0

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2/27/2020 5:19:13 PM



#36

Benzene

Concen: 1.915 ppbv

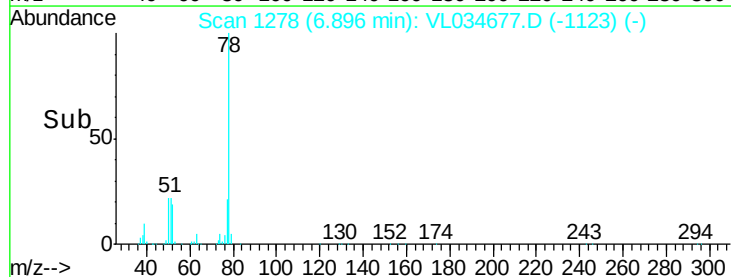
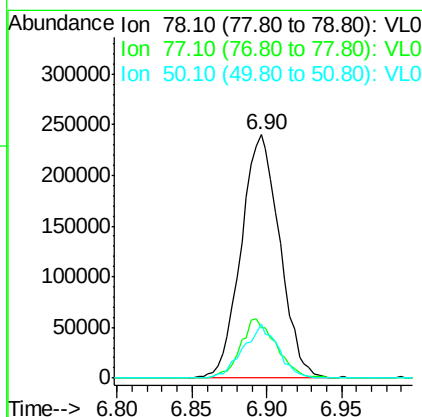
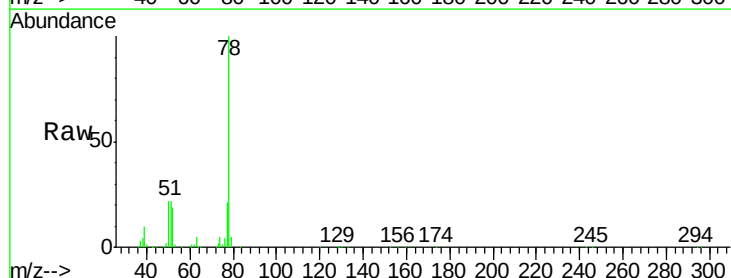
RT: 6.90 min Scan# 1278

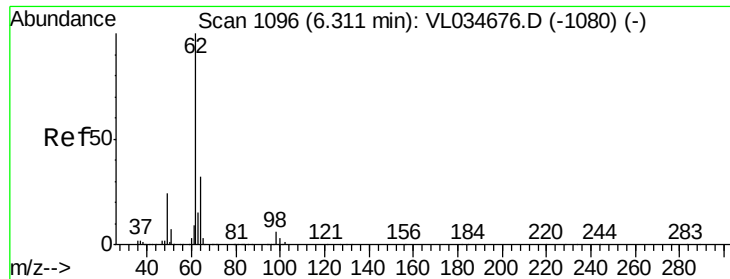
Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion: 78	Resp:	431500
Ion Ratio	Lower	Upper
78 100		
77 20.6	19.5	29.3
50 22.4	14.6	21.8#





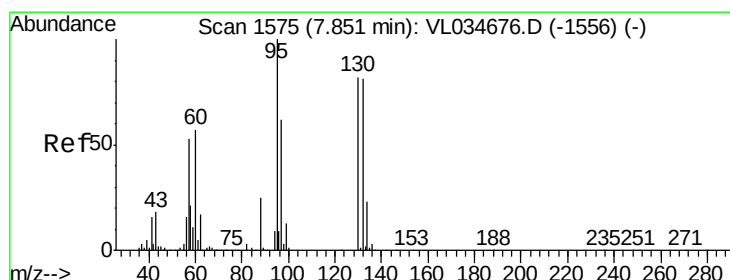
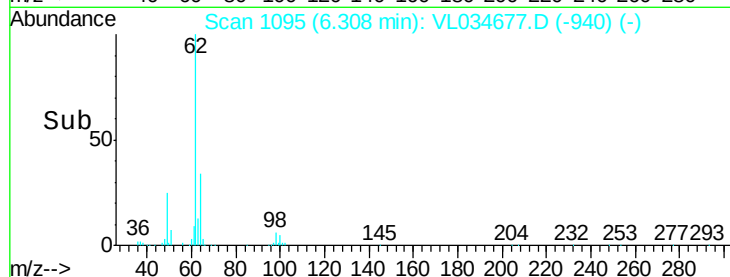
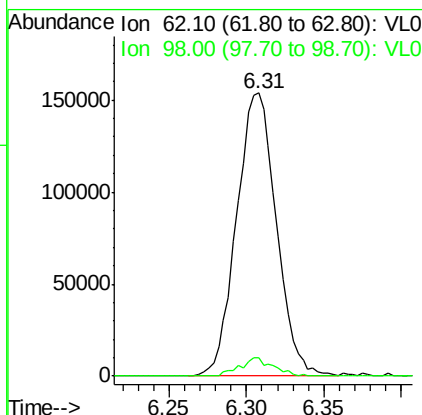
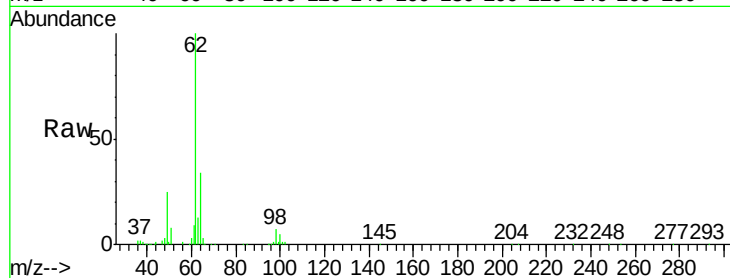
#37
 1,2-Dichloroethane
 Concen: 1.865 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	275115		
98	5.6		4.7	7.1

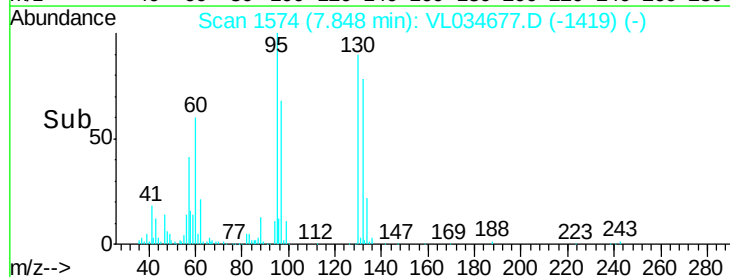
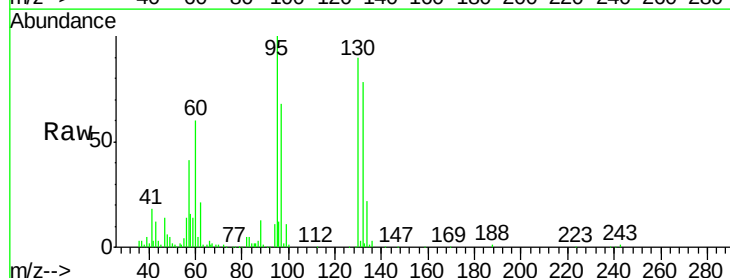
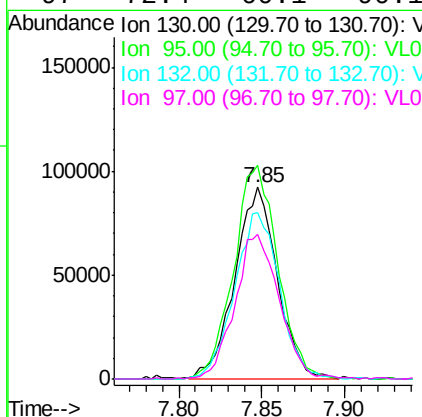
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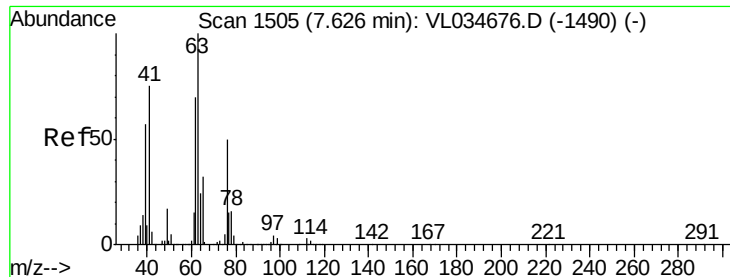
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 2/27/2020 5:19:13 PM



#38
 Trichloroethene
 Concen: 1.929 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	165035		
95	107.2		97.1	145.7
132	83.2		78.3	117.5
97	72.4		60.1	90.1





#39

1,2-Dichloropropane

Concen: 1.873 ppbv m

RT: 7.62 min Scan# 1503

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 63 Resp: 173766

Ion Ratio Lower Upper

63 100

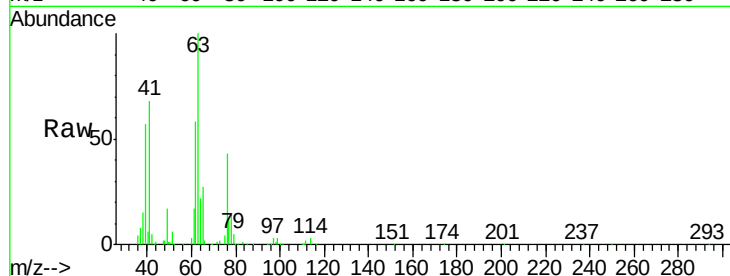
41 67.8 60.2 90.4

62 57.7 56.3 84.5

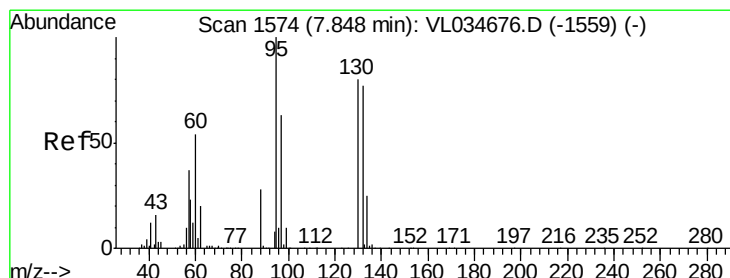
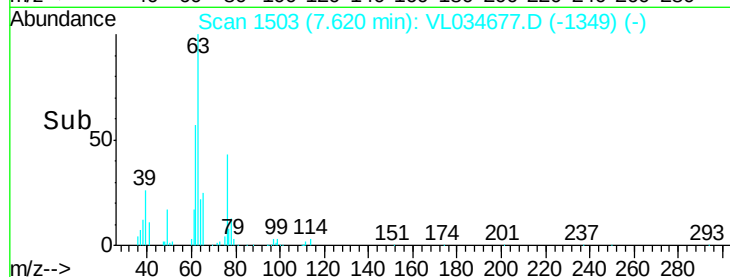
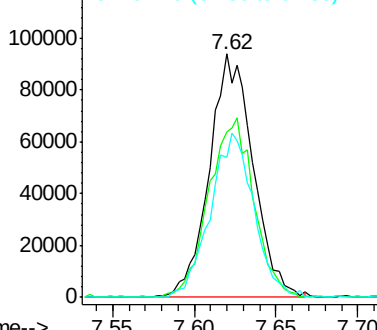
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 1.510 ppbv m

RT: 7.86 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion: 88 Resp: 52329

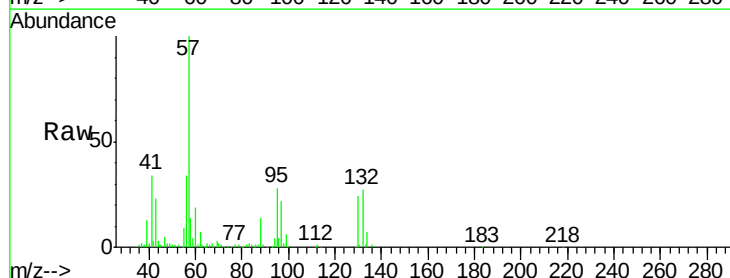
Ion Ratio Lower Upper

88 100

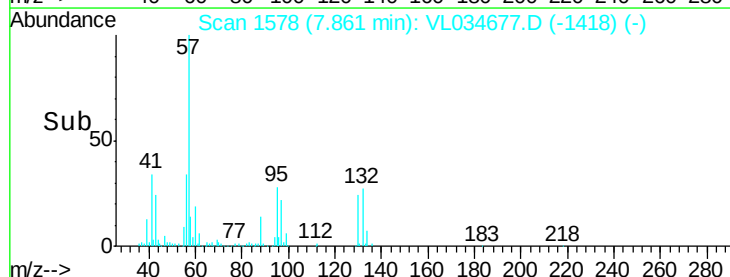
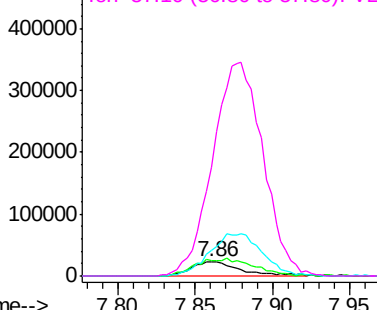
58 146.7 104.6 156.8

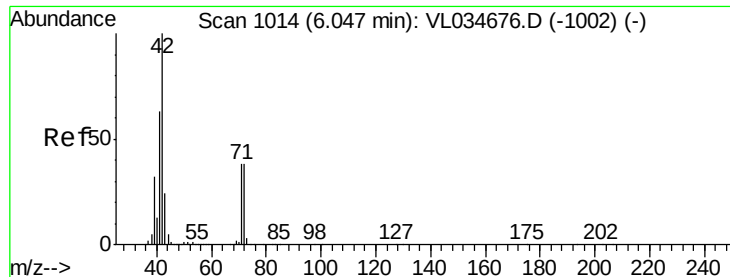
43 0.0 212.9 319.3#

57 0.0 935.2 1402.8#



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 1.851 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. 0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

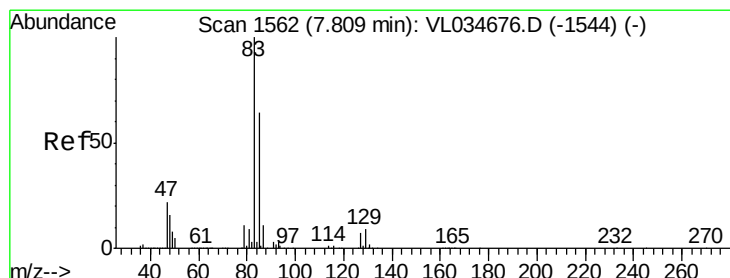
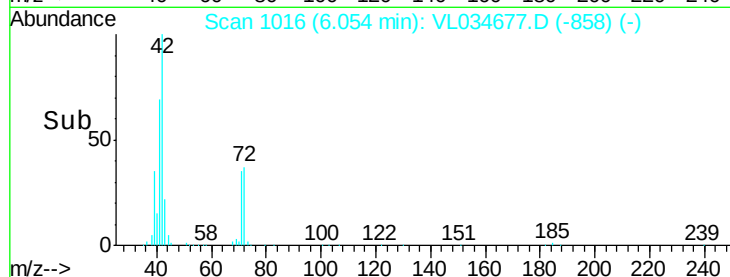
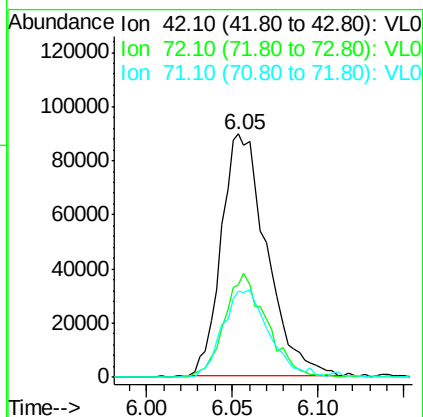
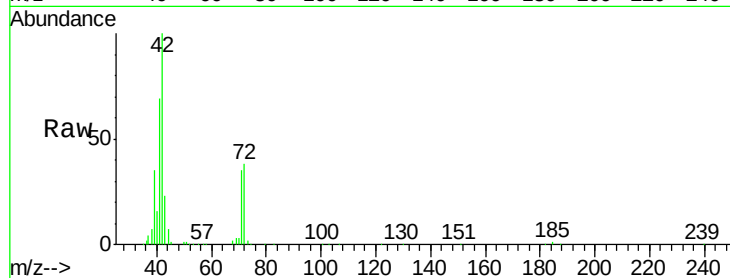
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	164339
Ion	Ratio	Lower	Upper
42	100		
72	40.2	31.7	47.5
71	37.6	30.7	46.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 1.887 ppbv

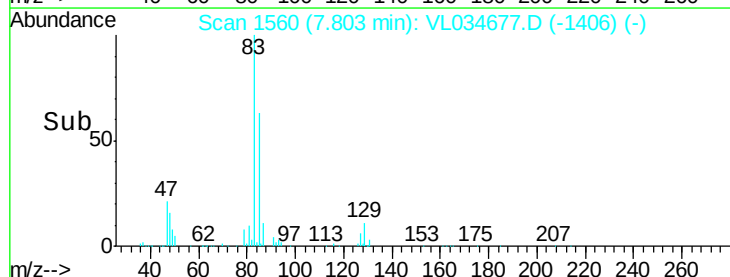
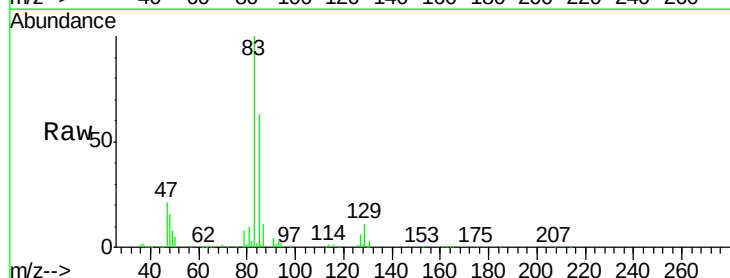
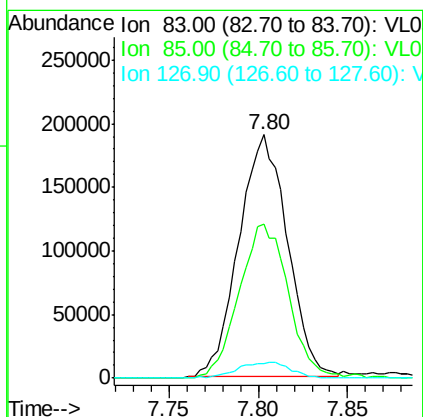
RT: 7.80 min Scan# 1560

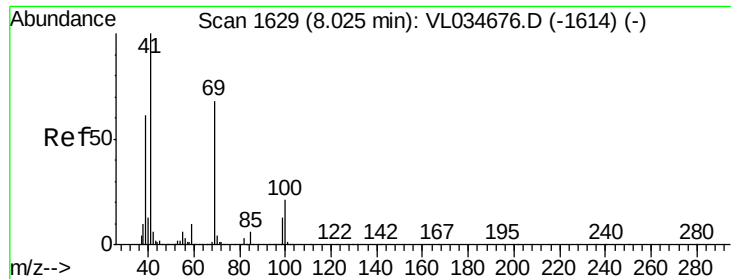
Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:	83	Resp:	361085
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.1	76.7
127	6.2	5.8	8.8





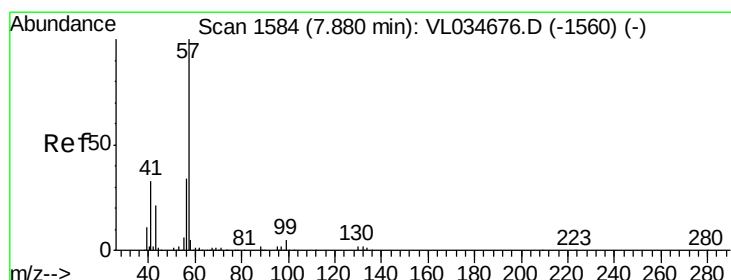
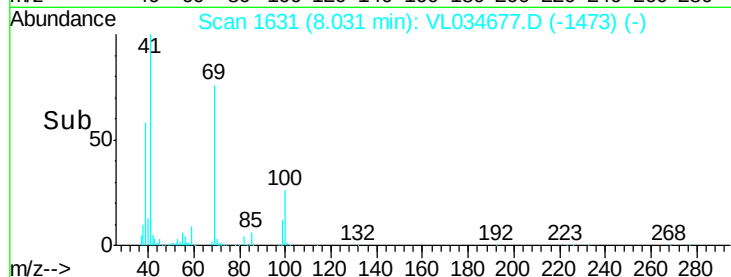
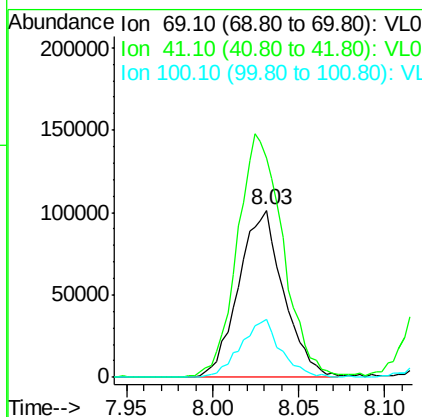
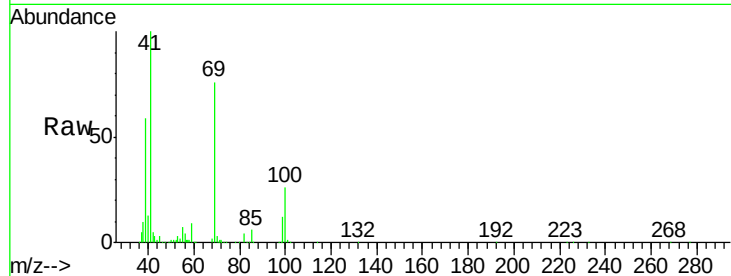
#43
Methyl Methacrylate
Concen: 2.088 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	148.9	118.2	177.2
100	31.1	24.2	36.2

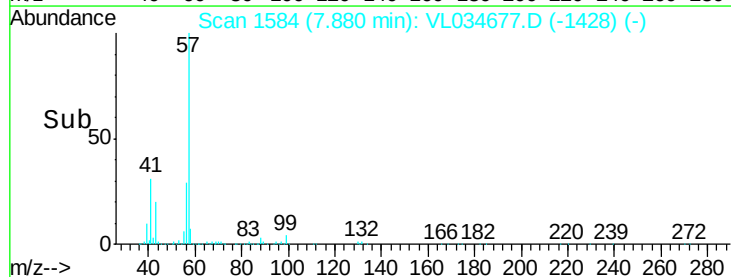
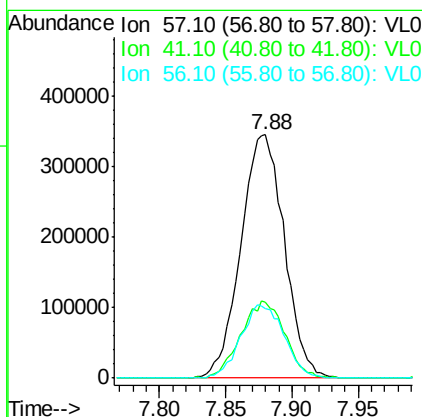
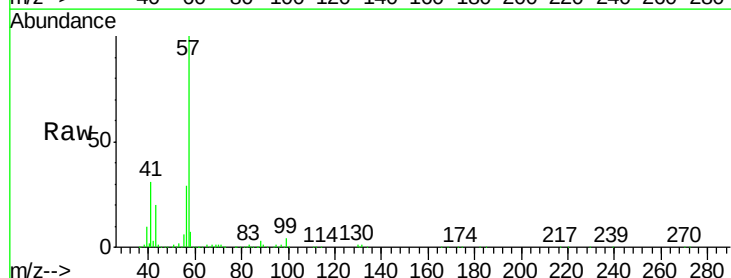
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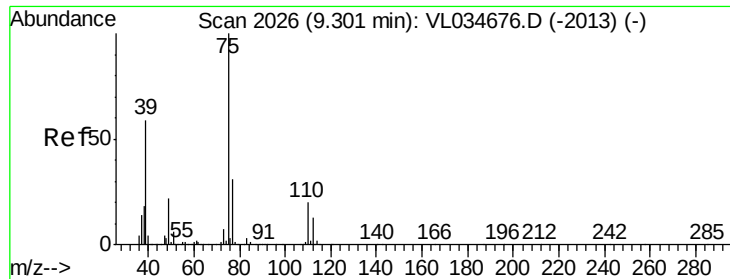
MMDadoda
2/27/2020 5:19:13 PM



#44
2,2,4-Trimethylpentane
Concen: 1.939 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.3	26.0	39.0
56	30.2	25.6	38.4





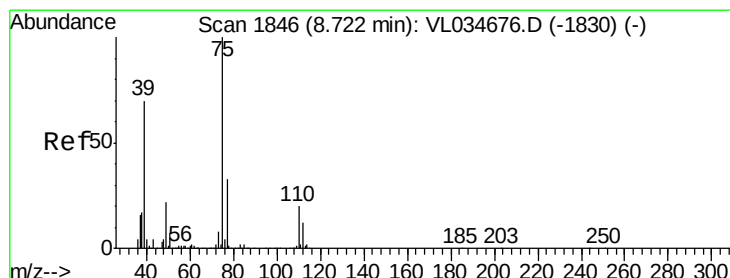
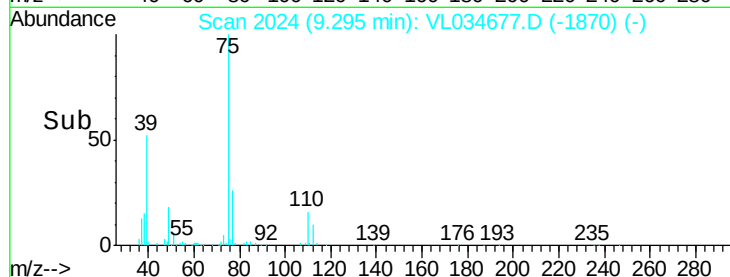
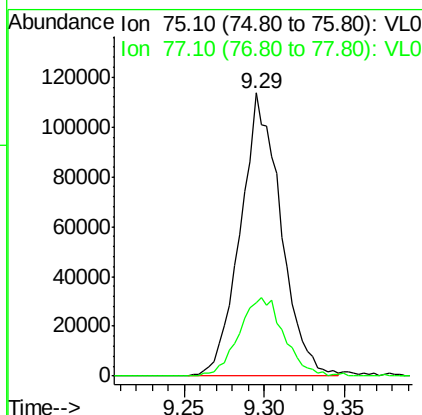
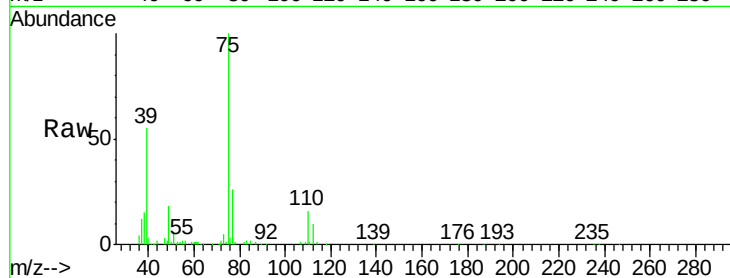
#45
 t-1,3-Dichloropropene
 Concen: 1.893 ppbv
 RT: 9.29 min Scan# 2024
 Delta R.T. -0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 75 Resp: 195731
 Ion Ratio Lower Upper
 75 100
 77 26.0 25.3 37.9

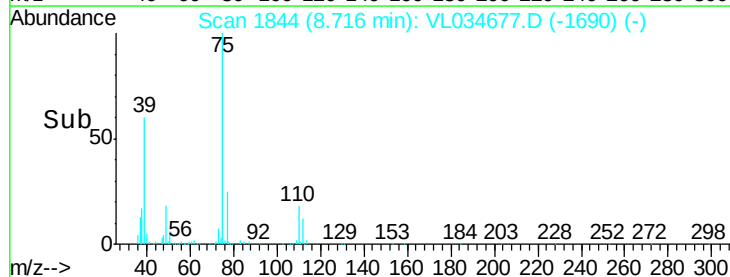
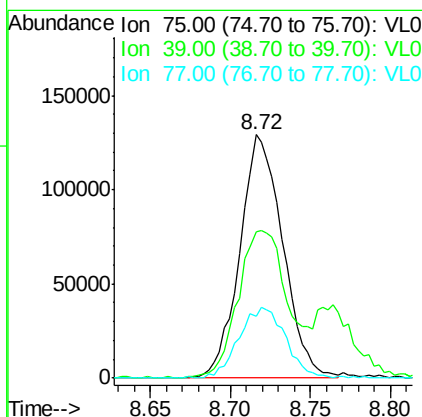
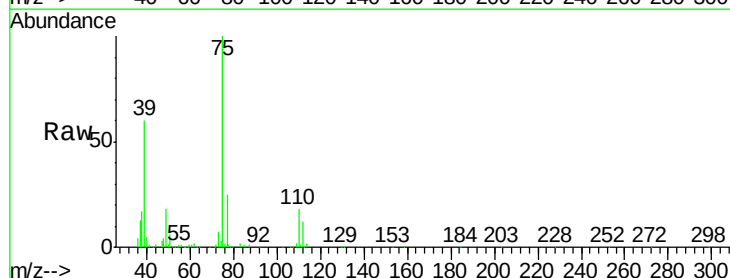
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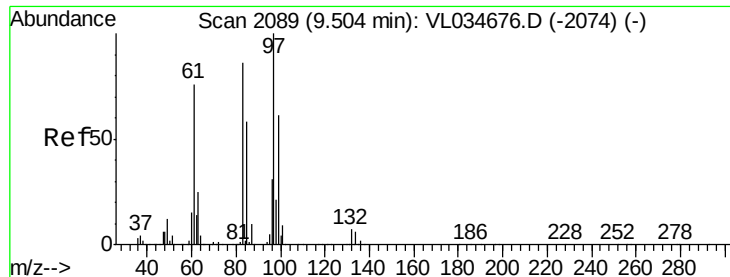
MMDadoda
 2/27/2020 5:19:13 PM



#46
 cis-1,3-Dichloropropene
 Concen: 1.959 ppbv
 RT: 8.72 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion: 75 Resp: 236979
 Ion Ratio Lower Upper
 75 100
 39 59.2 55.7 83.5
 77 25.0 26.3 39.5#





#47

1,1,2-Trichloroethane

Concen: 1.739 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

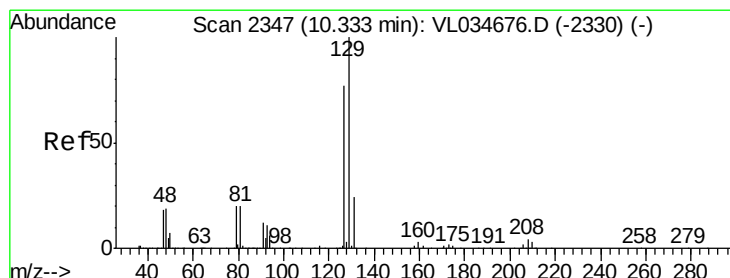
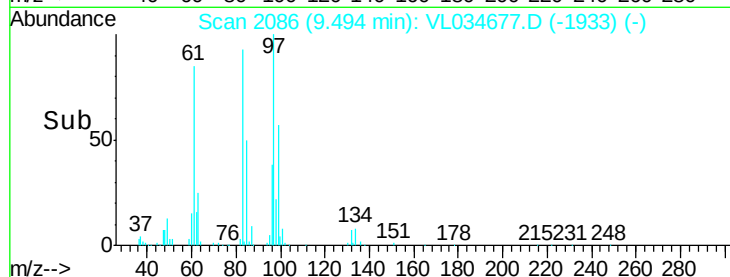
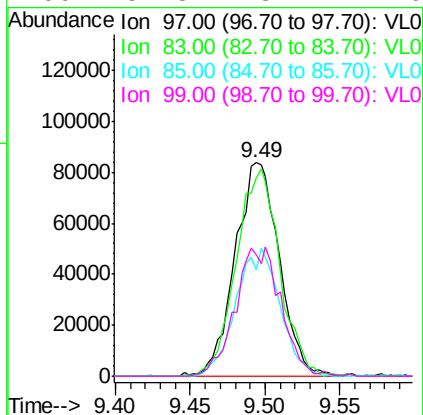
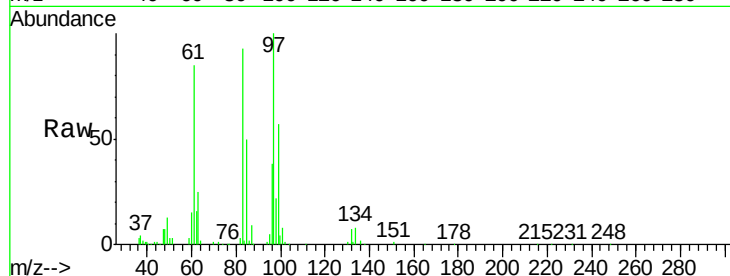
ClientSampleId :

VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		170441		
83	92.8	69.4	104.0		
85	50.0	46.4	69.6		
99	57.3	48.4	72.6		

Manual Integrations
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2/27/2020 5:19:13 PM



#48

Dibromochloromethane

Concen: 1.831 ppbv

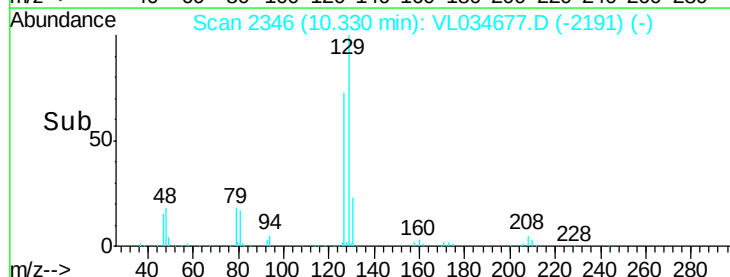
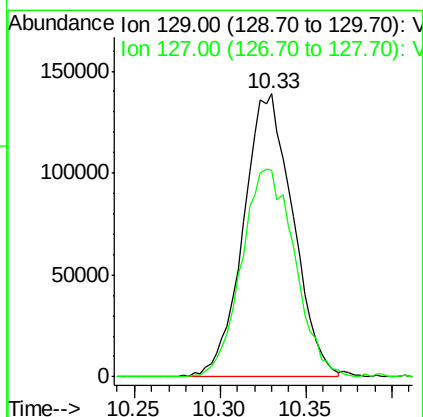
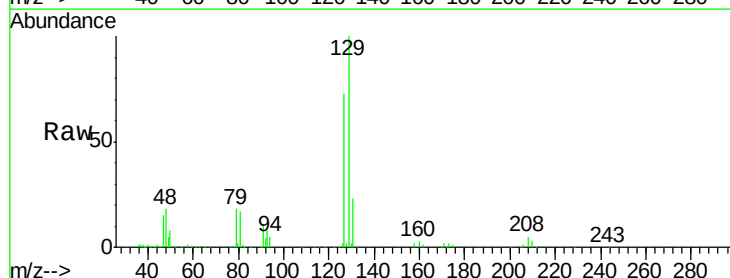
RT: 10.33 min Scan# 2346

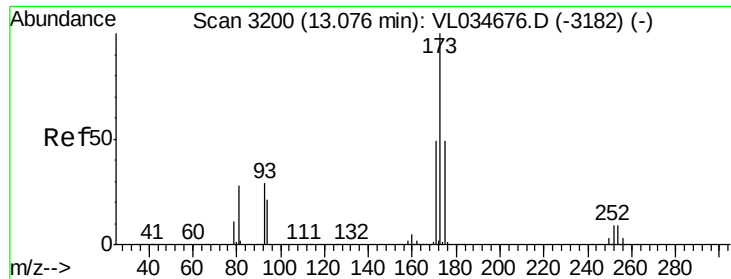
Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		275589		
127	79.8	39.3	117.8		





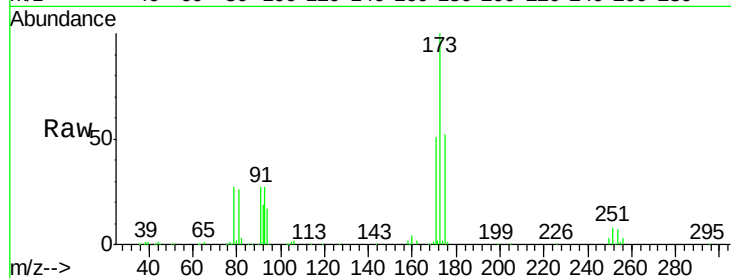
#49
Bromoform
Concen: 1.878 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	38.6	58.0
171	50.8	41.5	62.3

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2/27/2020 5:19:13 PM

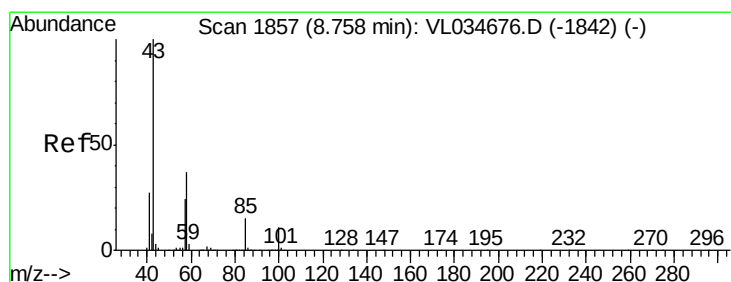
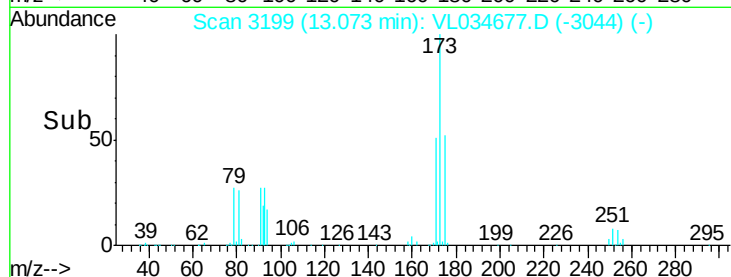
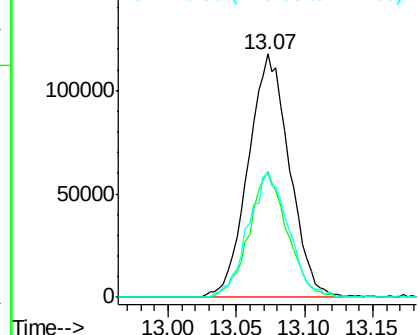


Abundance

Ion 172.90 (172.60 to 173.60): V

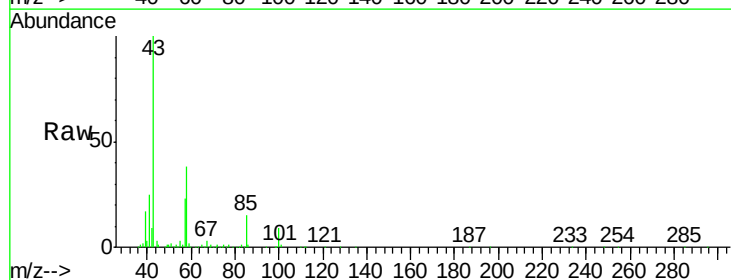
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 1.851 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. 0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

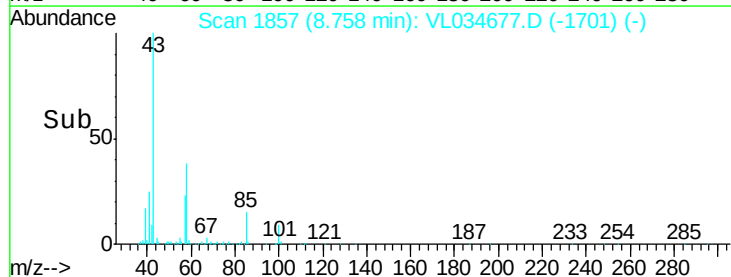
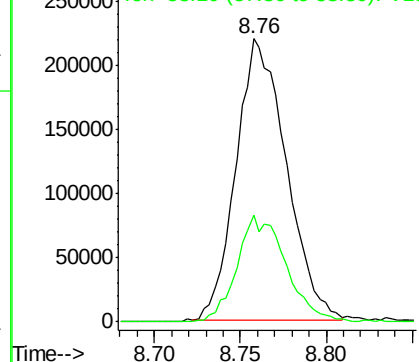
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.0	43.6

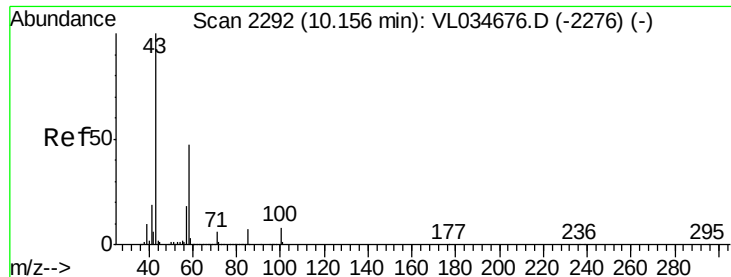


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 1.887 ppbv

RT: 10.16 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

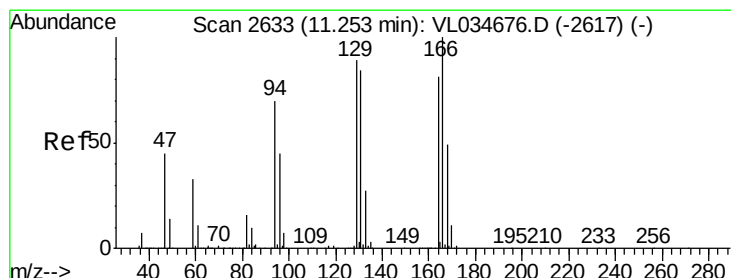
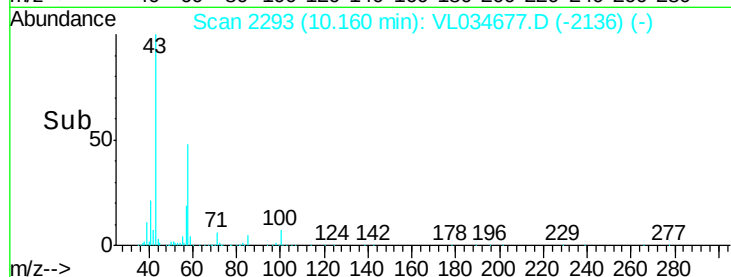
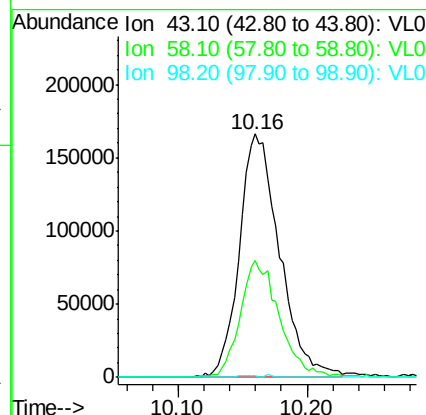
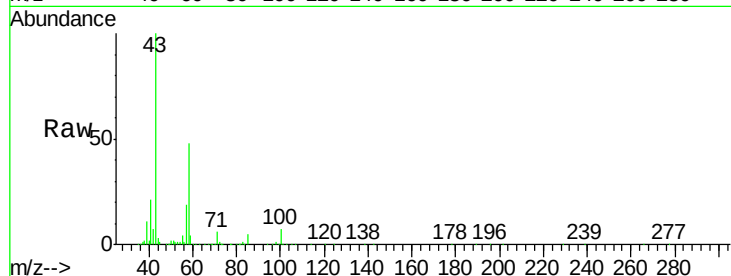
VSTDIC002

Tot Ion: 43 Resp: 358602

Ion	Ratio	Lower	Upper
43	100		
58	47.1	39.4	59.0
98	0.7	0.2	0.2#

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#52

Tetrachloroethene

Concen: 1.874 ppbv

RT: 11.25 min Scan# 2632

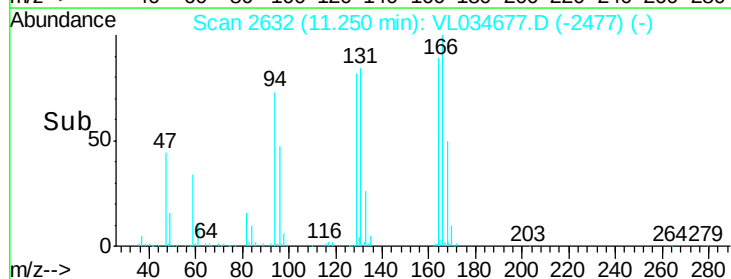
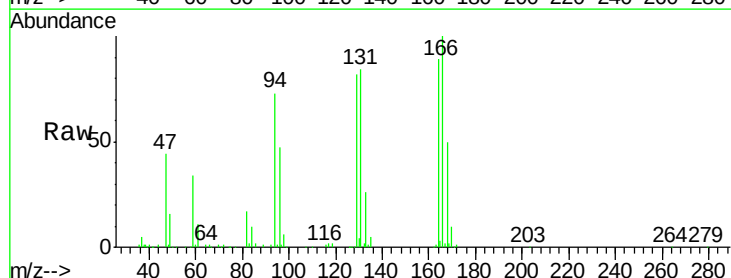
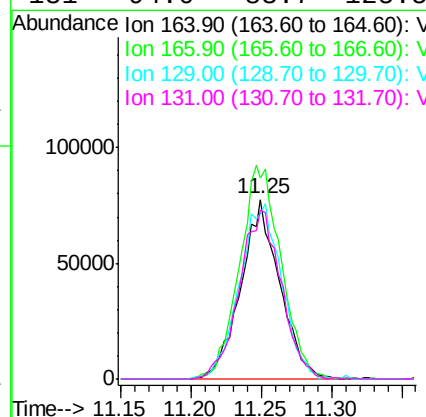
Delta R.T. -0.00 min

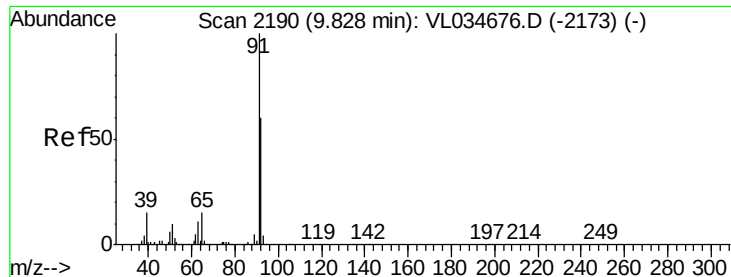
Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion: 164 Resp: 149019

Ion	Ratio	Lower	Upper
164	100		
166	111.9	99.2	148.8
129	91.4	88.0	132.0
131	94.0	83.7	125.5





#53

Toluene

Concen: 1.964 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 476009

Ion Ratio Lower Upper

91 100

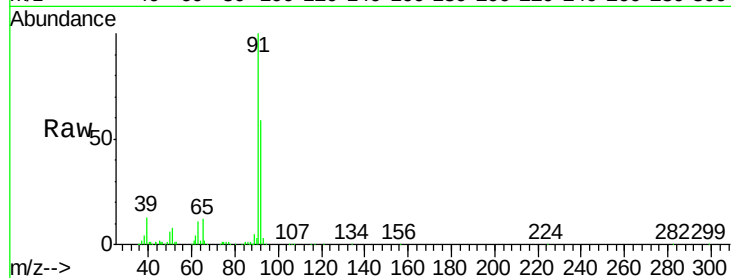
92 58.7 48.5 72.7

Manual Integrations

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2/27/2020 5:19:13 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

250000

200000

150000

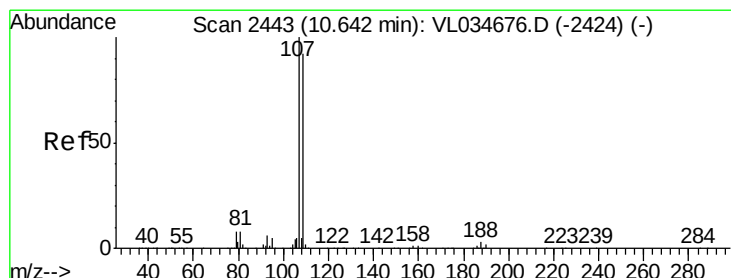
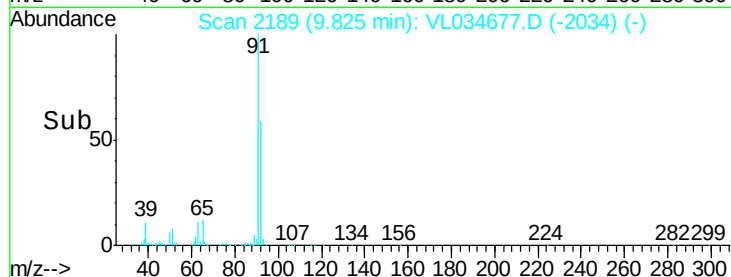
100000

50000

0

9.75 9.80 9.85 9.90

Time-->



#54

1,2-Dibromoethane

Concen: 1.967 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL034677.D

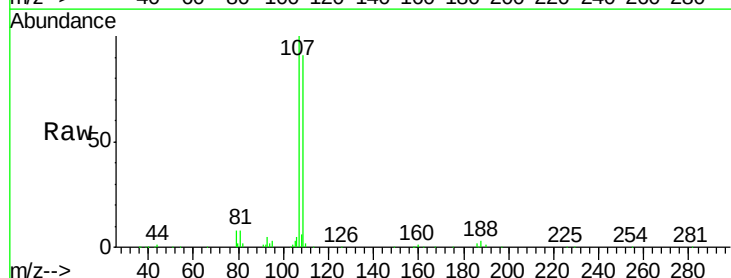
Acq: 26 Feb 2020 3:08

Tgt Ion: 107 Resp: 268494

Ion Ratio Lower Upper

107 100

109 91.2 73.9 110.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

150000

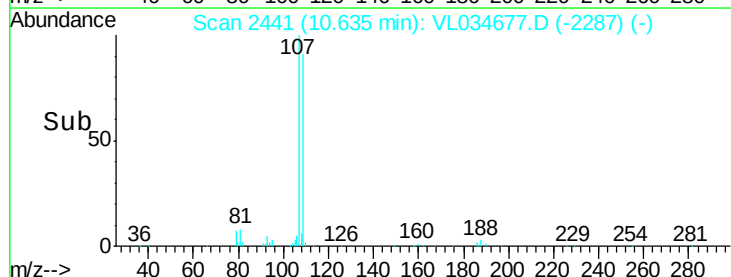
100000

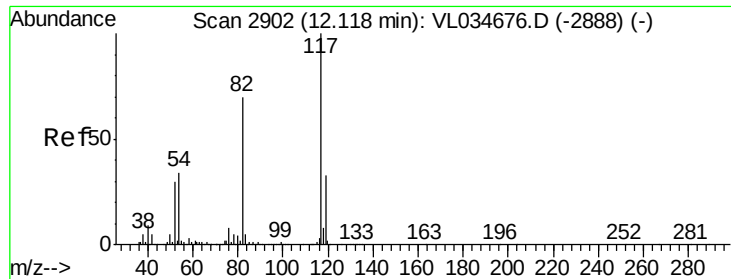
50000

0

10.55 10.60 10.65 10.70

Time-->





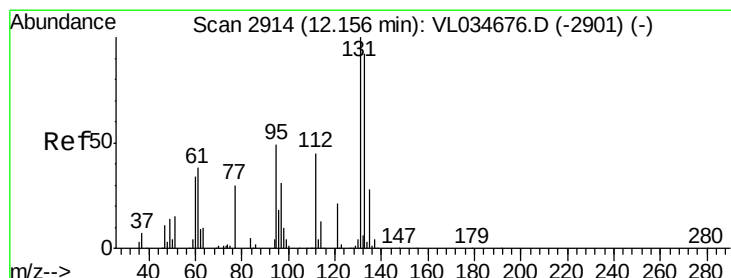
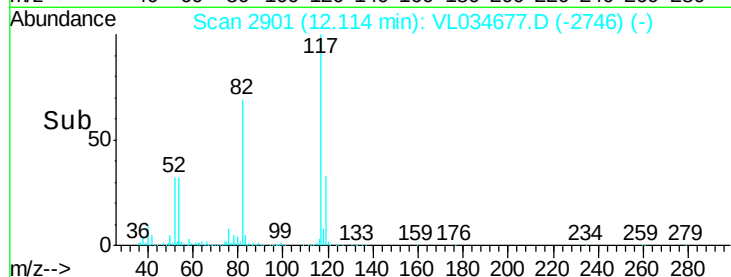
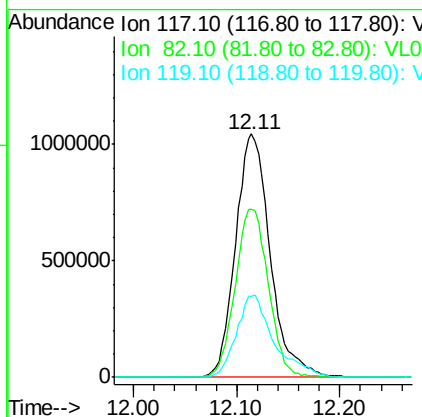
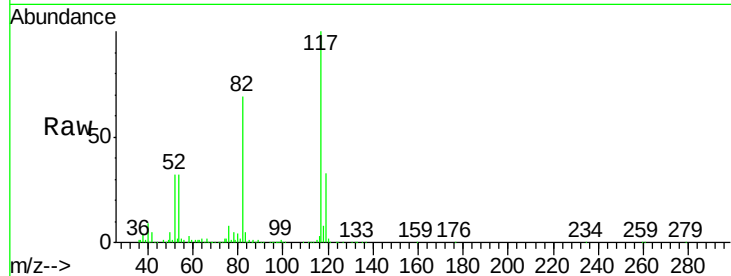
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:117 Resp: 2447989
Ion Ratio Lower Upper
117 100
82 66.6 54.1 81.1
119 36.5 27.6 41.4

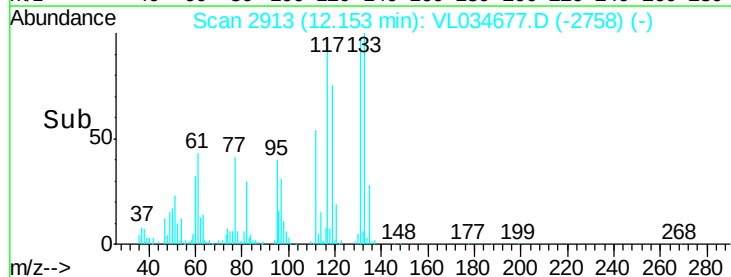
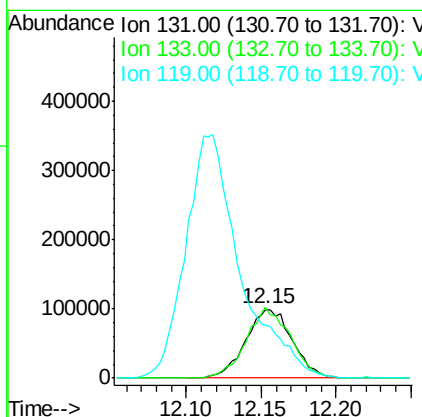
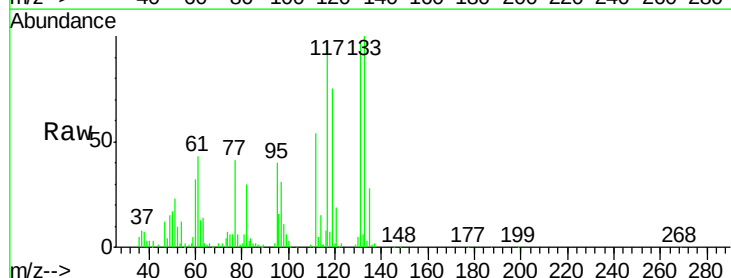
Manual Integrations
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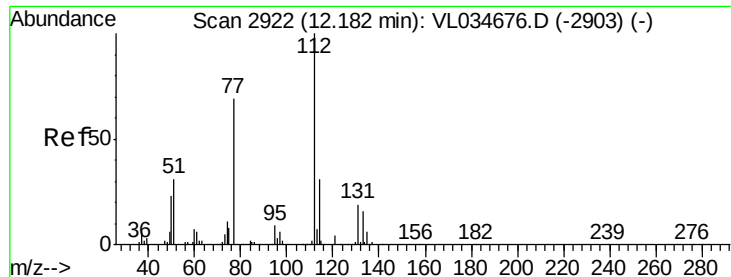
MMDadoda
2/27/2020 5:19:13 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.009 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion:131 Resp: 215023
Ion Ratio Lower Upper
131 100
133 98.2 76.6 114.8
119 416.2 51.3 76.9#





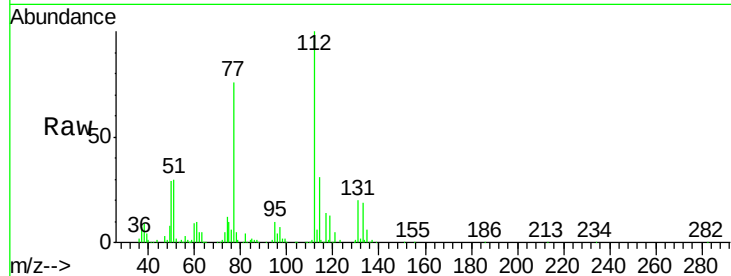
#57
Chlorobenzene
Concen: 1.887 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. -0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

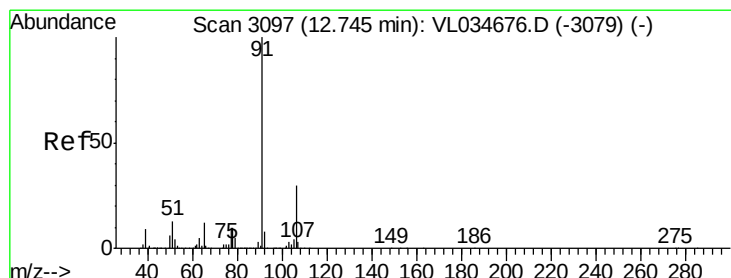
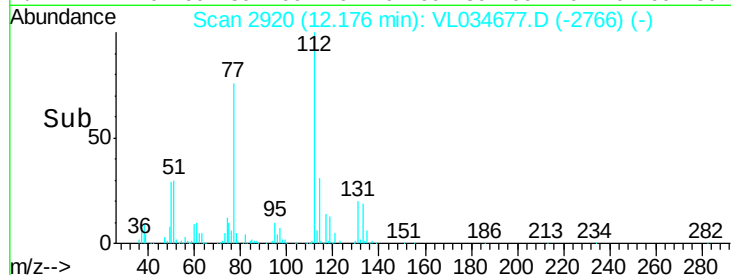
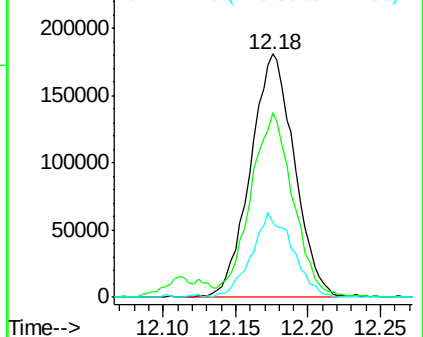
Tot Ion	Ratio	Lower	Upper
112	100		
77	74.9	56.5	84.7
114	30.7	28.1	34.3

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2/27/2020 5:19:13 PM

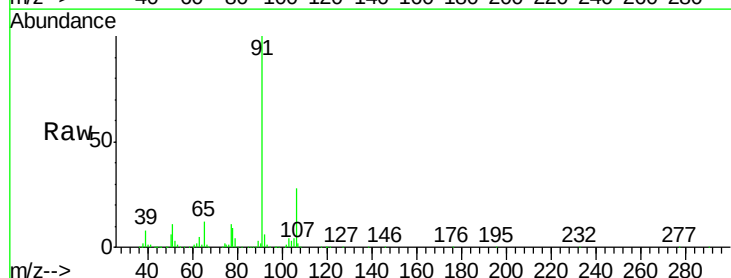


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

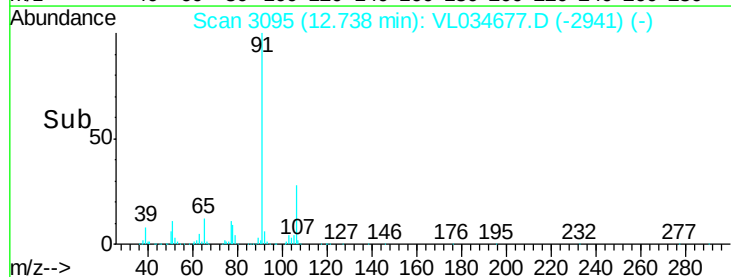
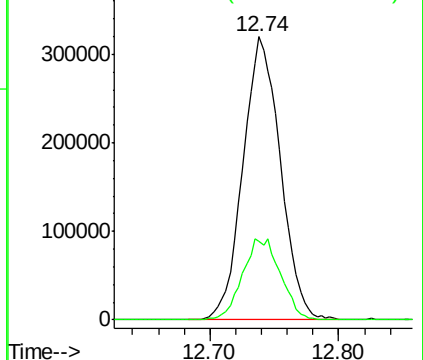


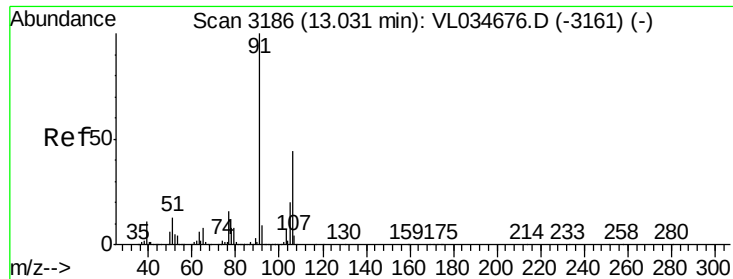
#58
Ethyl Benzene
Concen: 1.980 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.6	24.0	36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





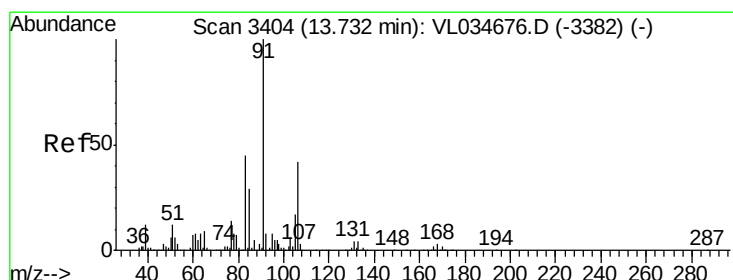
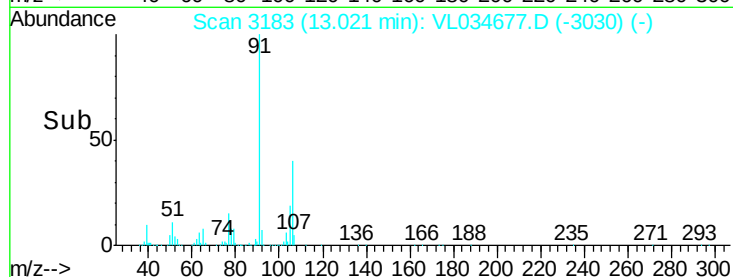
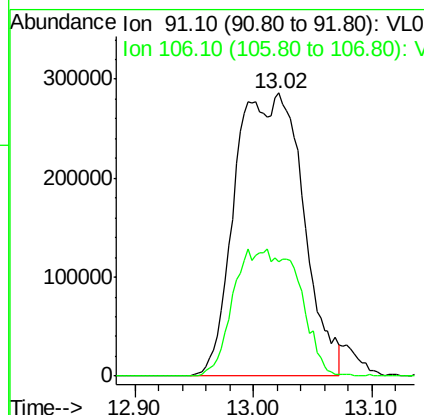
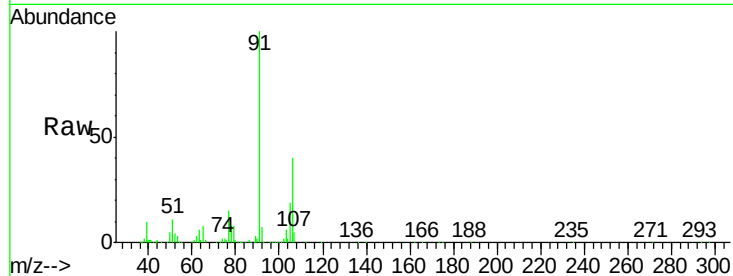
#59
m/p-Xylene
Concen: 3.965 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1132875
Ion Ratio Lower Upper
91 100
106 43.3 35.6 53.4

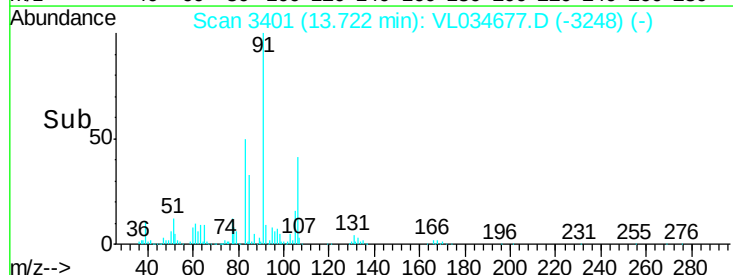
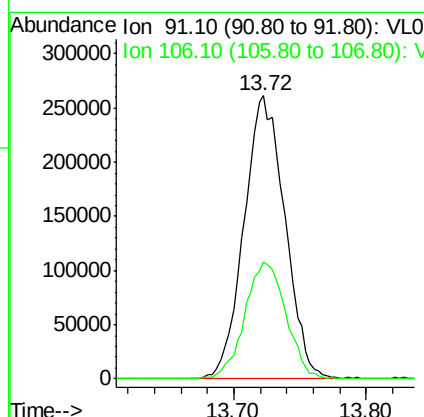
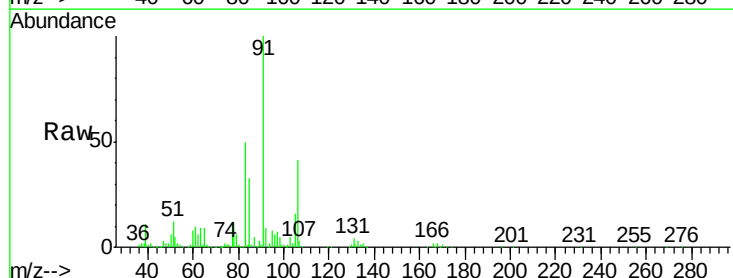
Manual Integrations
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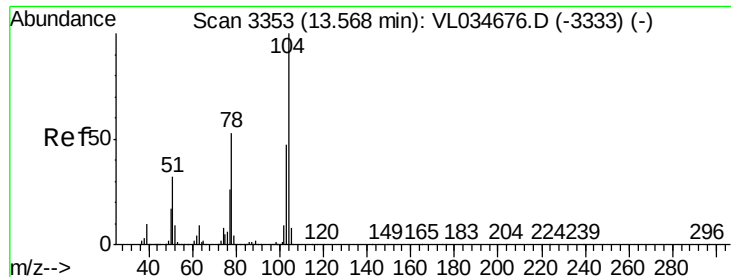
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#60
o-Xylene
Concen: 1.965 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion: 91 Resp: 560756
Ion Ratio Lower Upper
91 100
106 41.6 21.9 65.5





#61

Stvrene

Concen: 1.870 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

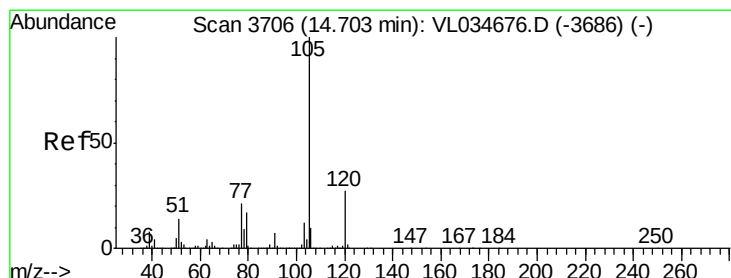
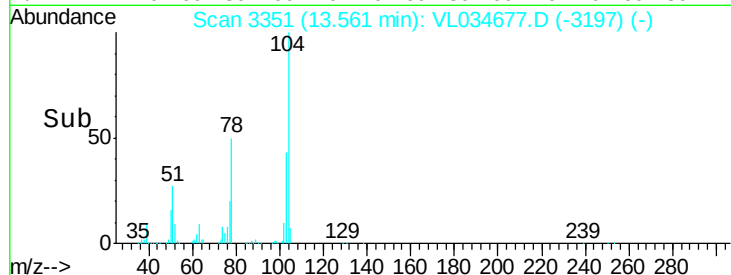
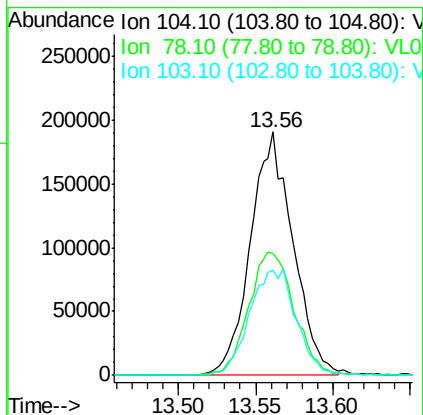
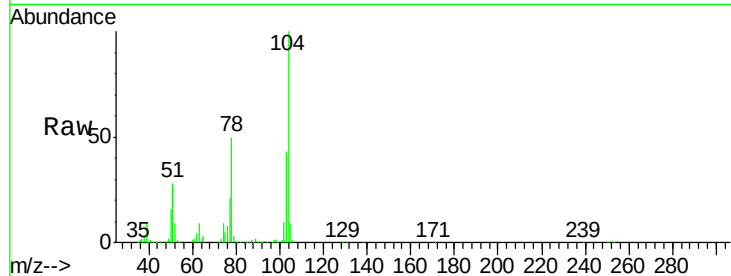
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	364608
Ion Ratio	Lower	Upper	
104	100		
78	55.0	44.2	66.4
103	47.6	37.4	56.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 2.180 ppbv

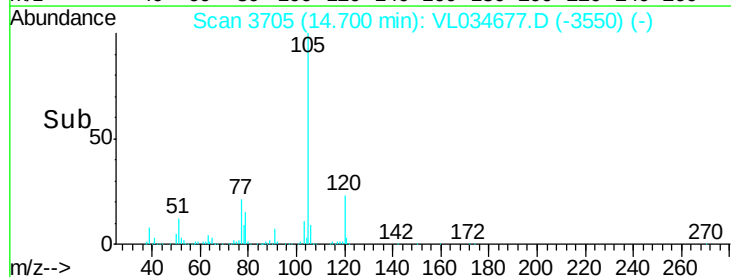
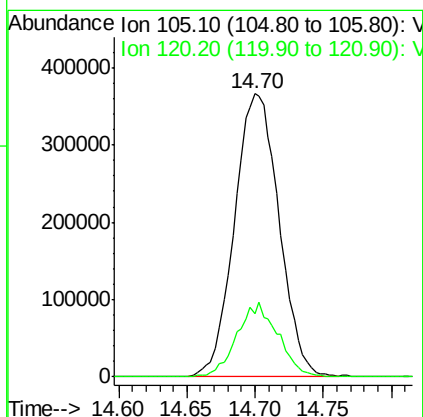
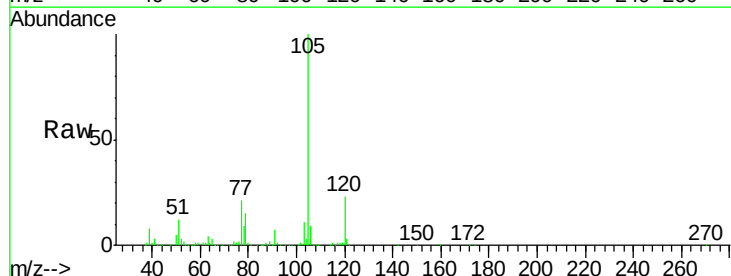
RT: 14.70 min Scan# 3705

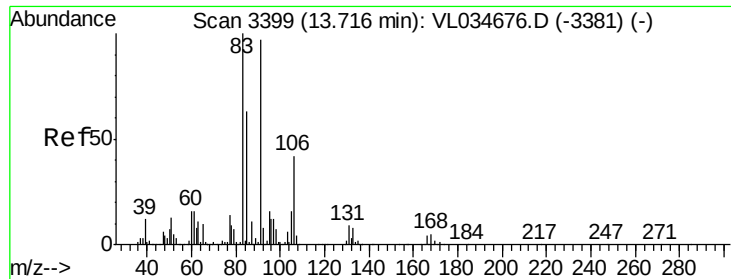
Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:	105	Resp:	824189
Ion Ratio	Lower	Upper	
105	100		
120	24.4	20.2	30.4





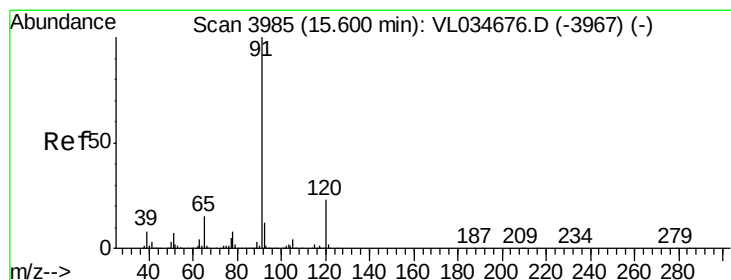
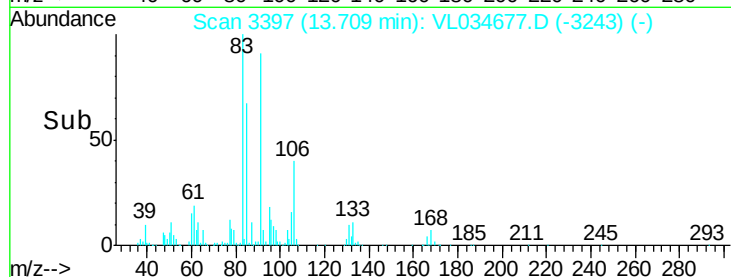
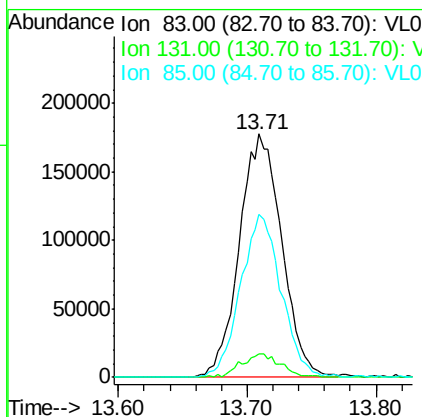
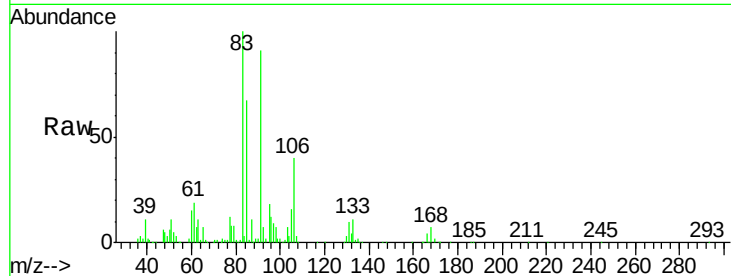
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.794 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. -0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
83	100	406574		
131	9.0	4.4	13.2	
85	64.2	32.5	97.5	

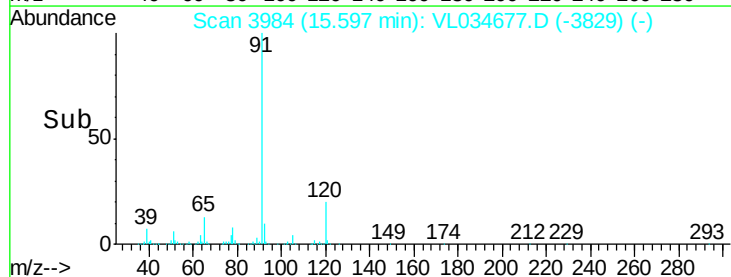
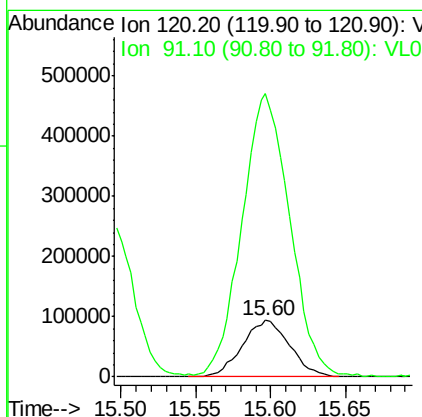
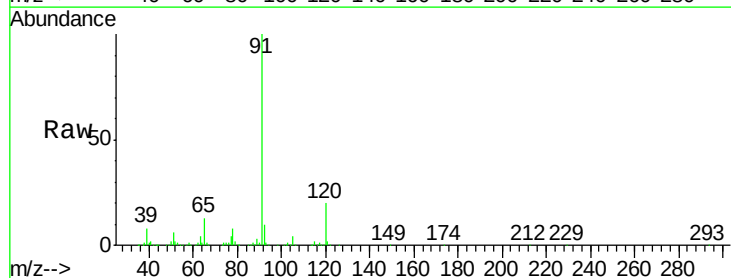
Manual Integrations
 APPROVED

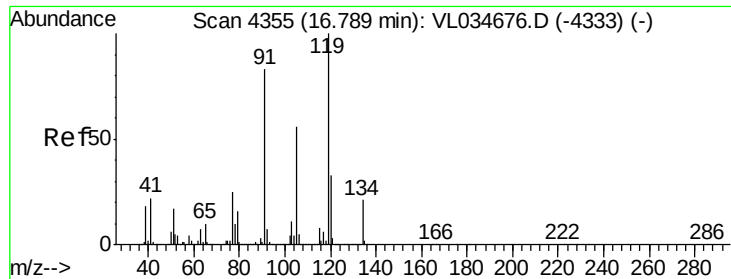
MMDadoda
 2/27/2020 5:19:13 PM



#64
 n-propylbenzene
 Concen: 2.163 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	207577		
91	508.1	369.8	554.8	





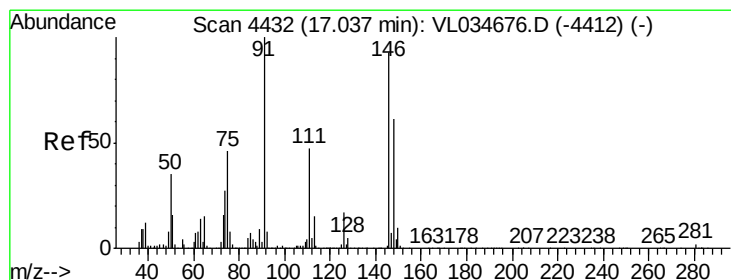
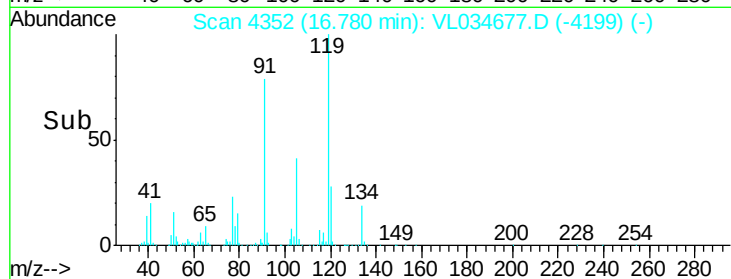
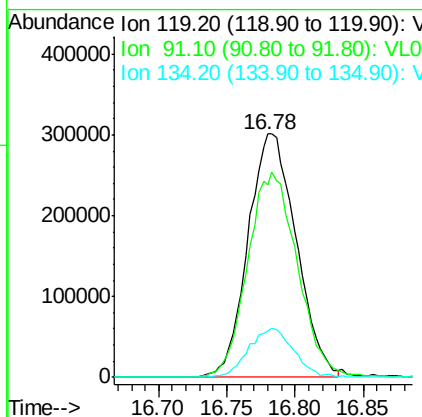
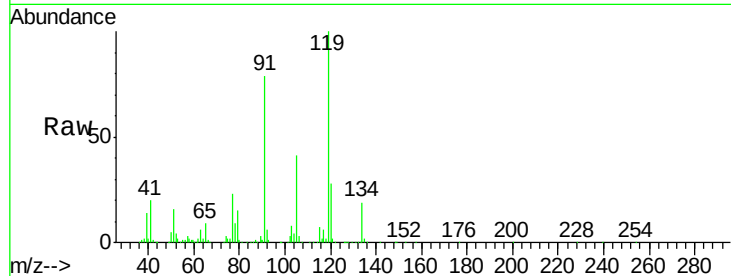
#65
tert-Butylbenzene
Concen: 2.243 ppbv
RT: 16.78 min Scan# 4352
Delta R.T. -0.01 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
119	100	739539		
91	86.9	69.1	103.7	
134	19.0	15.8	23.8	

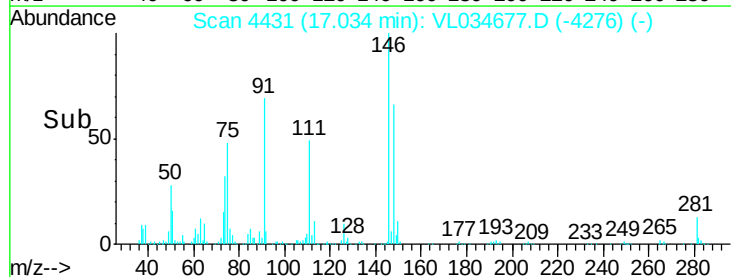
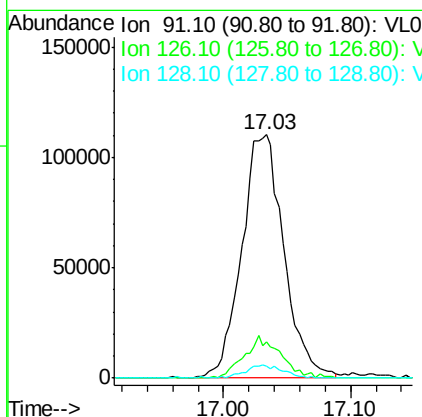
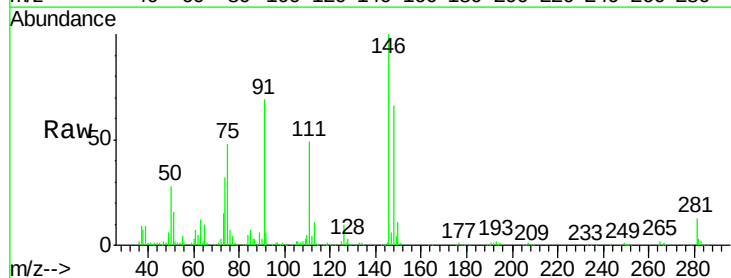
Manual Integrations
APPROVED

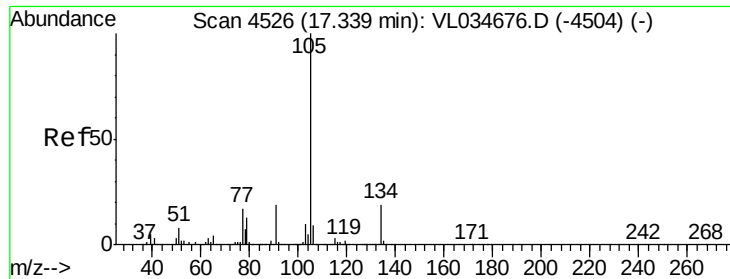
MMDadoda
2/27/2020 5:19:13 PM



#66
Benzyl Chloride
Concen: 1.997 ppbv m
RT: 17.03 min Scan# 4431
Delta R.T. -0.00 min
Lab File: VL034677.D
Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	254125		
126	15.1	13.5	20.3	
128	4.9	4.2	6.4	





#67

sec-Butylbenzene

Concen: 2.251 ppbv m

RT: 17.33 min Scan# 4524

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1059887

Ion Ratio Lower Upper

105 100

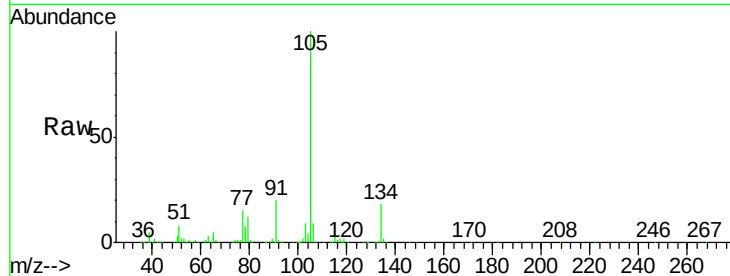
134 18.2 14.8 22.2

Manual Integrations

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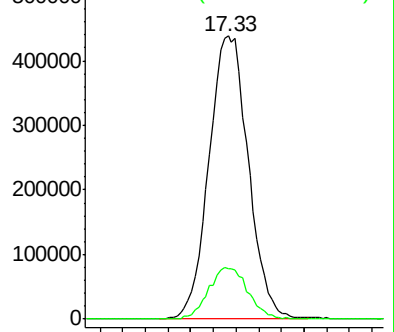
MMDadoda

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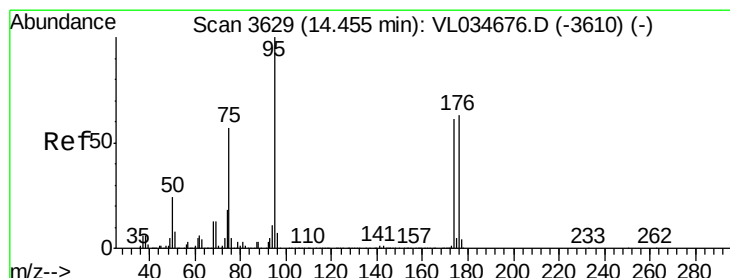
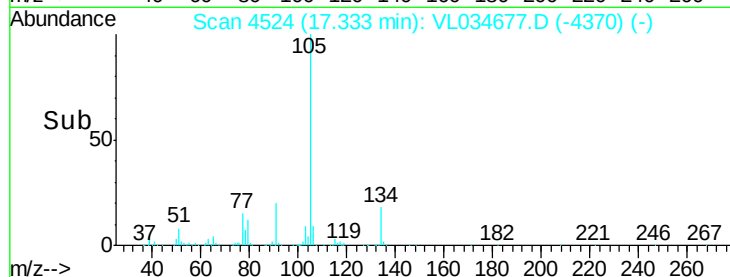


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.809 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

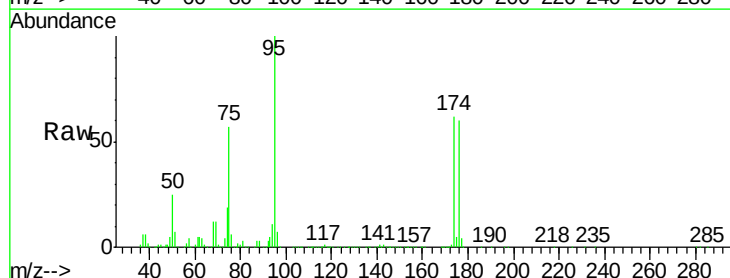
Tgt Ion: 95 Resp: 1970992

Ion Ratio Lower Upper

95 100

174 63.0 50.7 76.1

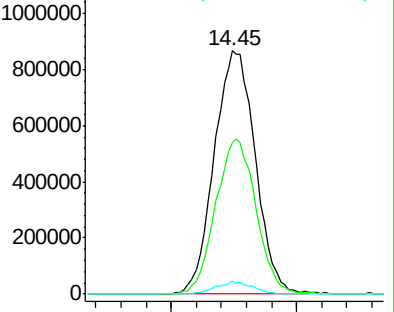
175 4.6 3.9 5.9



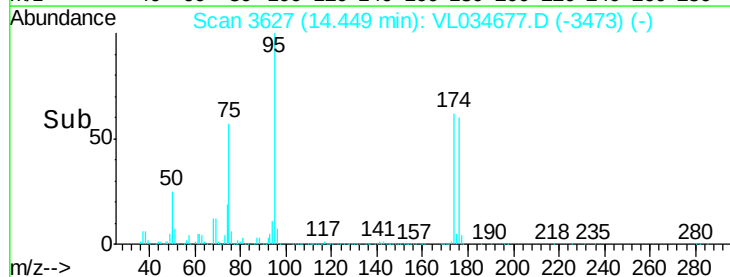
Abundance Ion 95.10 (94.80 to 95.80): VL0

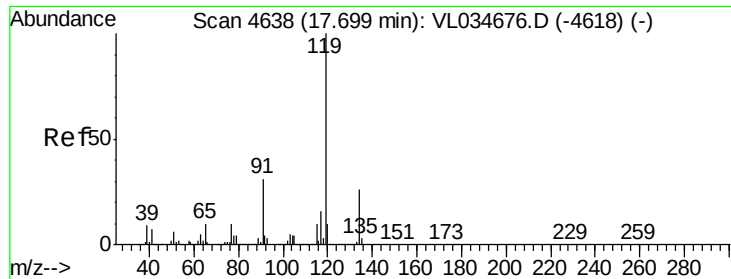
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





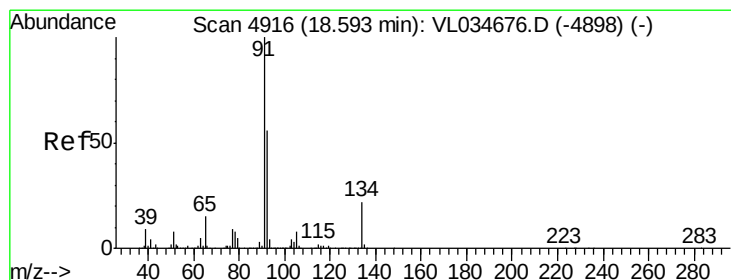
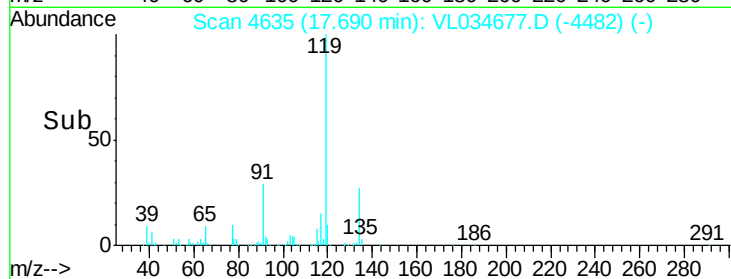
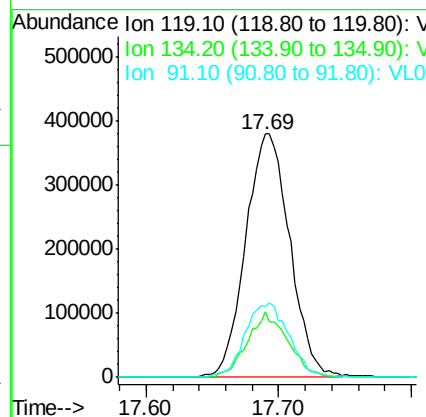
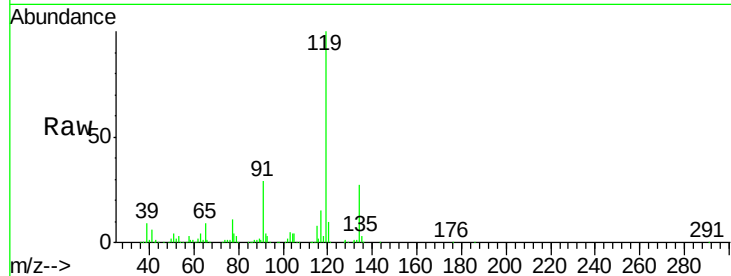
#69
 p-Isopropyltoluene
 Concen: 2.344 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
119	100	876989		
134	24.7	20.6	31.0	
91	30.9	25.3	37.9	

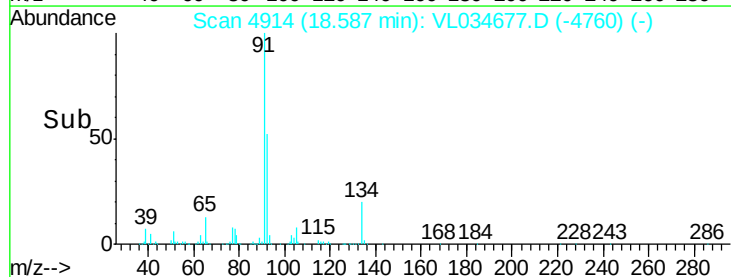
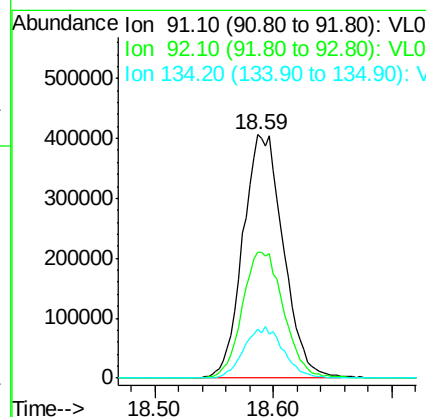
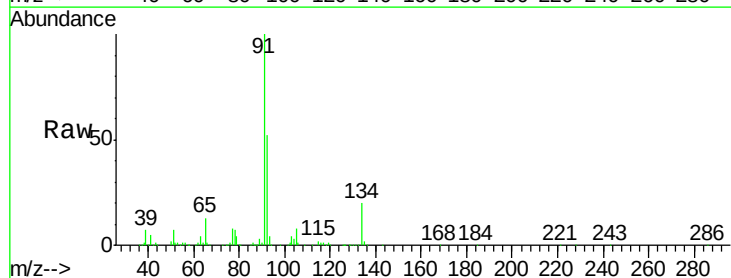
Manual Integrations
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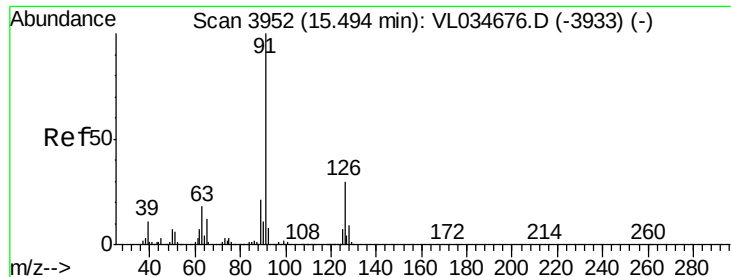
MMDadoda
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#70
 n-Butylbenzene
 Concen: 2.389 ppbv m
 RT: 18.59 min Scan# 4914
 Delta R.T. -0.01 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	956760		
92	52.9	43.8	65.6	
134	0.0	17.6	26.4	





#71

2-Chlorotoluene

Concen: 2.183 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 632741

Ion Ratio Lower Upper

91 100

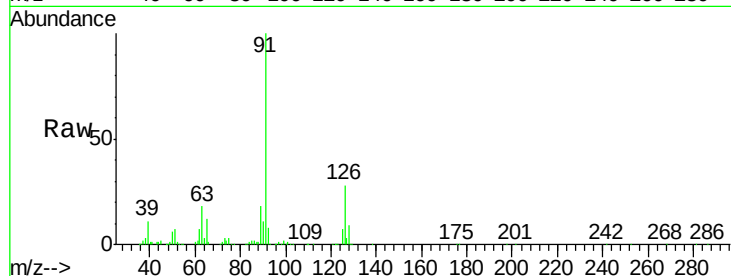
126 28.6 11.8 47.2

Manual Integrations

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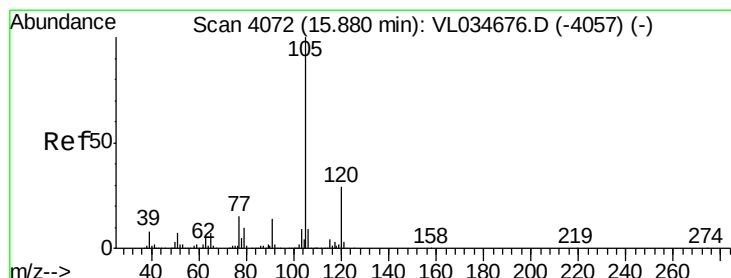
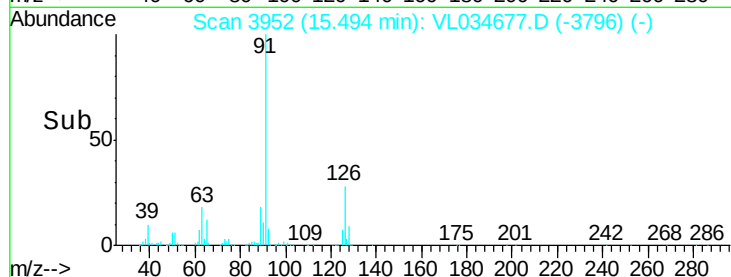
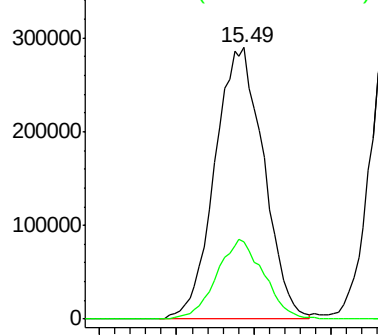
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 2.033 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:105 Resp: 640554

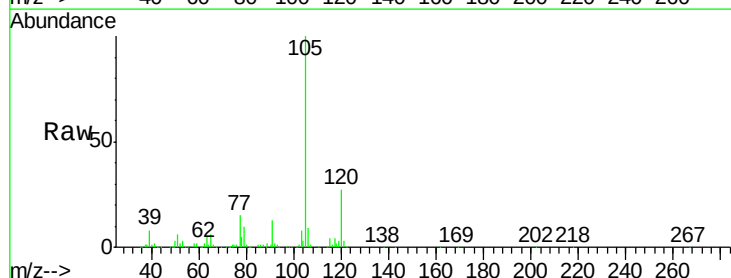
Ion Ratio Lower Upper

105 100

120 28.0 23.7 35.5

91 14.7 10.9 16.3

77 14.7 12.2 18.2

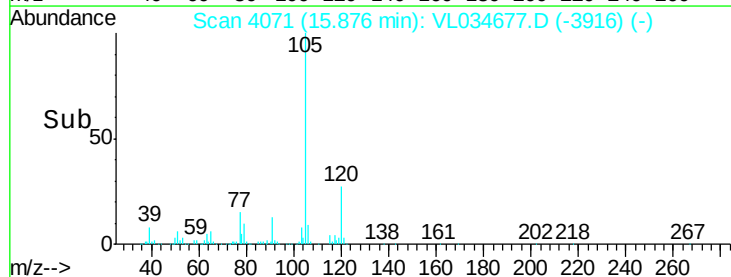
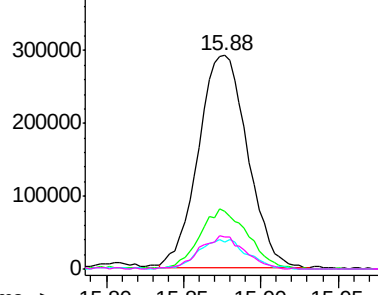


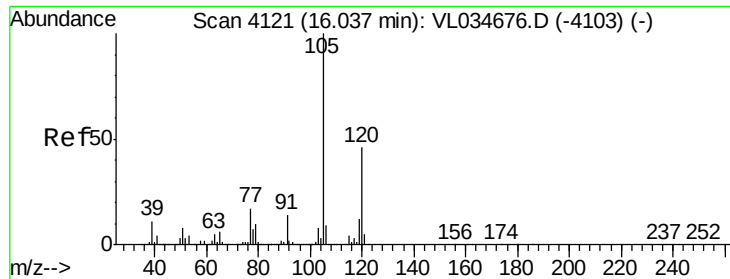
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 2.057 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 614384

Ion Ratio Lower Upper

105 100

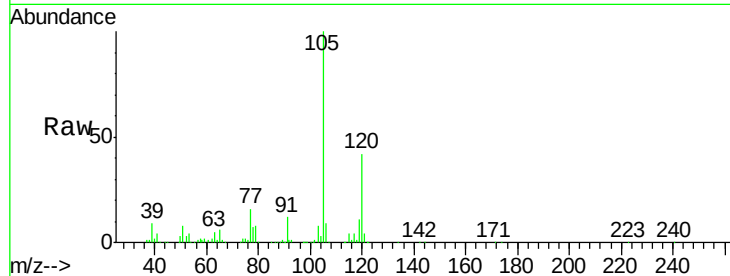
120 42.3 37.1 55.7

Manual Integrations

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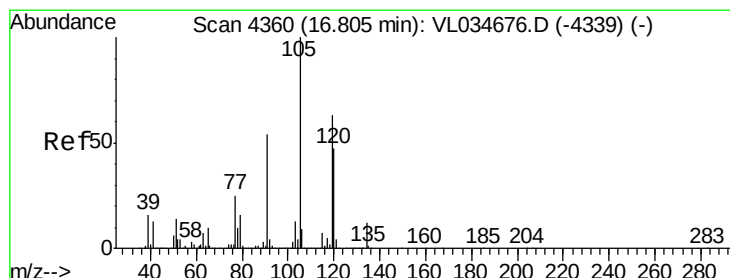
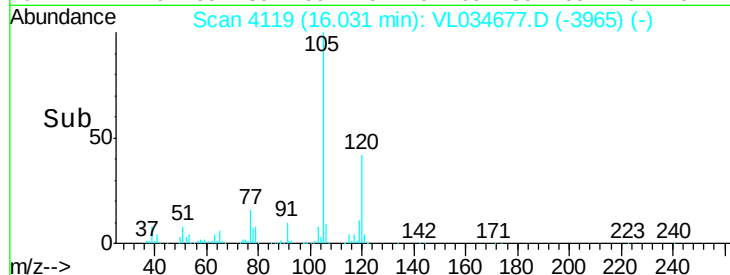
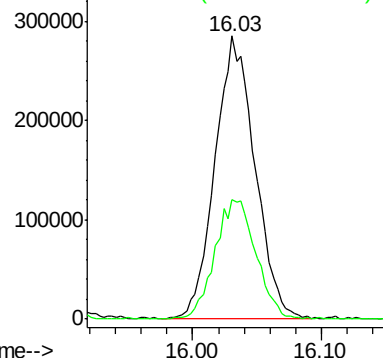
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.093 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:105 Resp: 673813

Ion Ratio Lower Upper

105 100

120 46.1 37.9 56.9

91 54.4 43.9 65.9

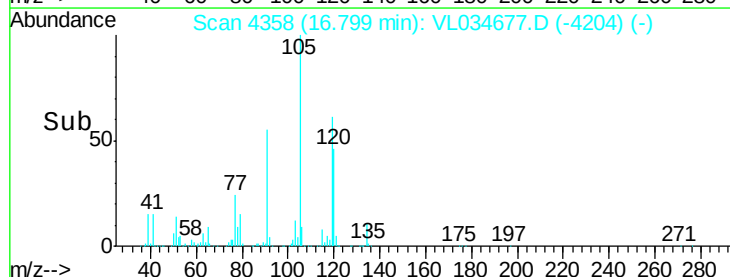
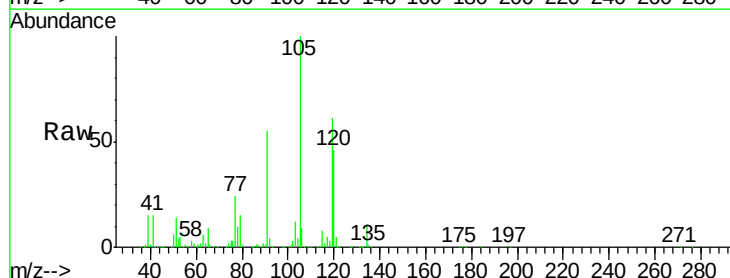
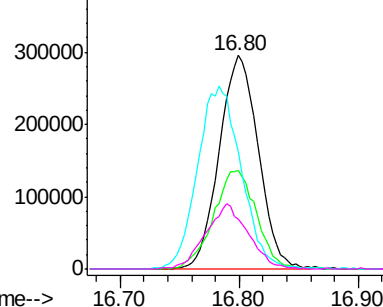
77 23.3 20.3 30.5

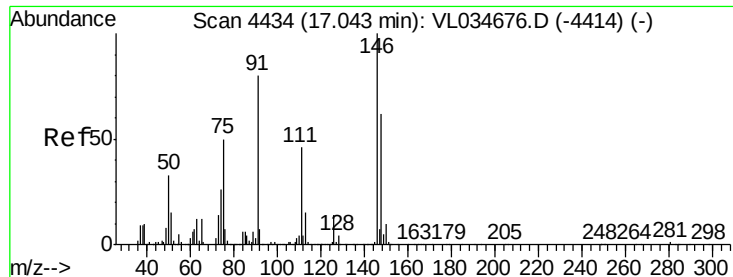
Abundance Ion 105.10 (104.80 to 105.80): V

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: 2.034 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

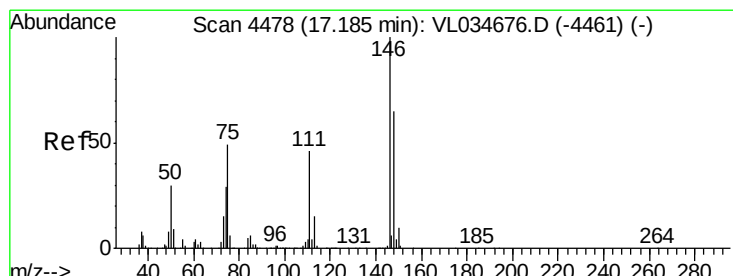
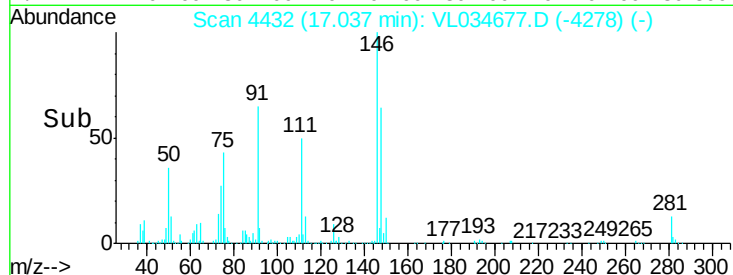
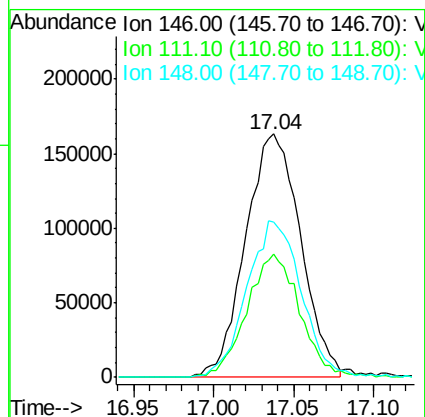
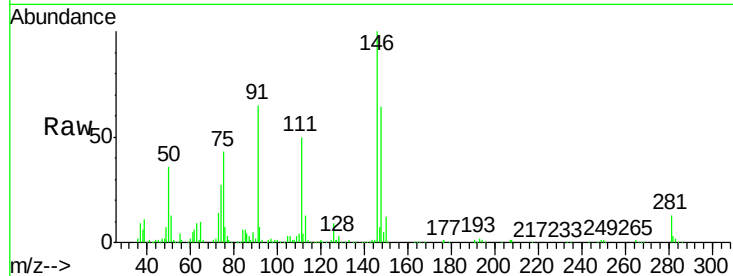
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	384349
Ion Ratio	Lower	Upper	
146	100		
111	49.0	24.4	73.2
148	64.3	32.5	97.4

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 2.038 ppbv

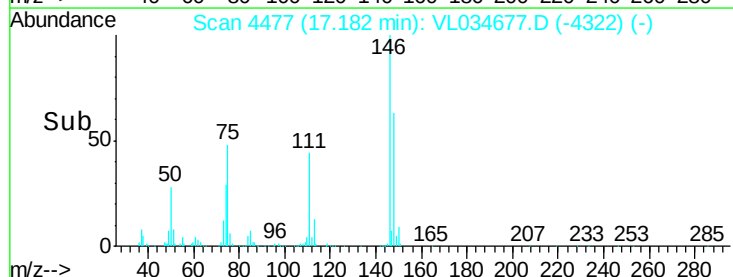
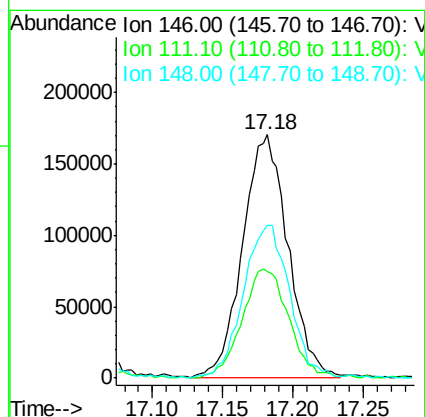
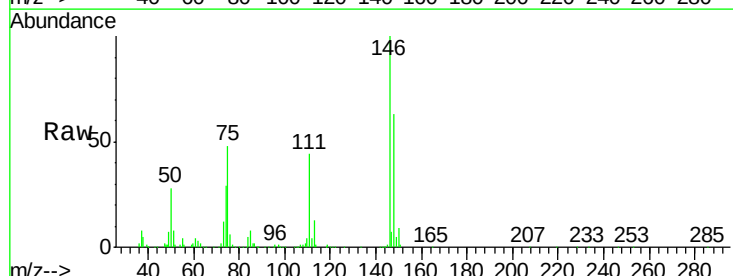
RT: 17.18 min Scan# 4477

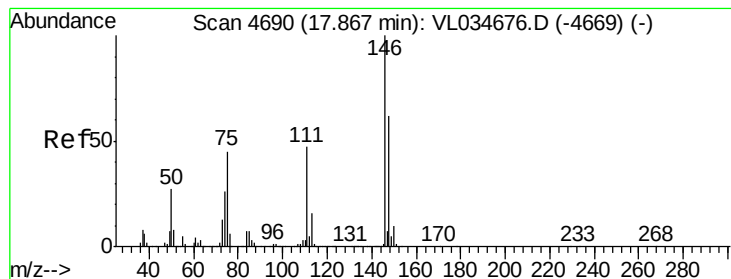
Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:	146	Resp:	380190
Ion Ratio	Lower	Upper	
146	100		
111	46.9	23.4	70.0
148	65.4	31.9	95.5





#77

1,2-Dichlorobenzene

Concen: 1.999 ppbv

RT: 17.86 min Scan# 4687

Delta R.T. -0.01 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

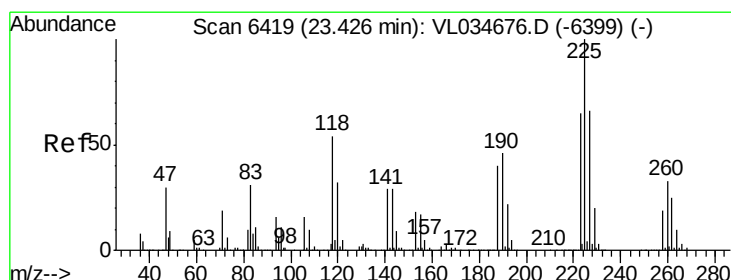
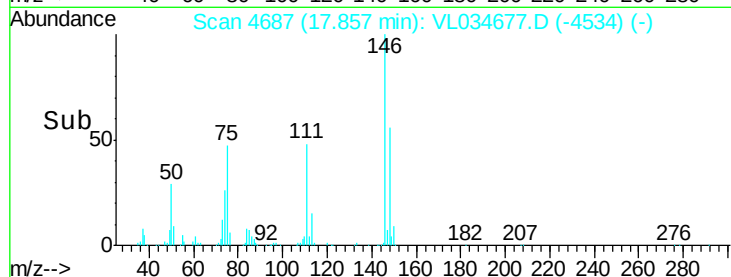
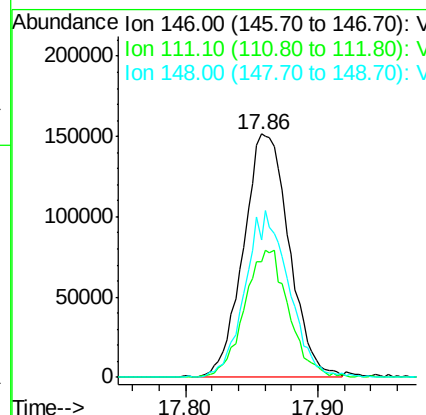
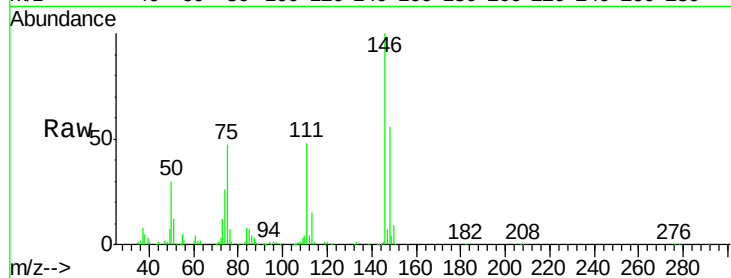
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	363864
Ion Ratio	Lower	Upper	
146	100		
111	50.8	24.9	74.7
148	65.4	32.0	96.0

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#78

Hexachloro-1,3-Butadiene

Concen: 2.223 ppbv

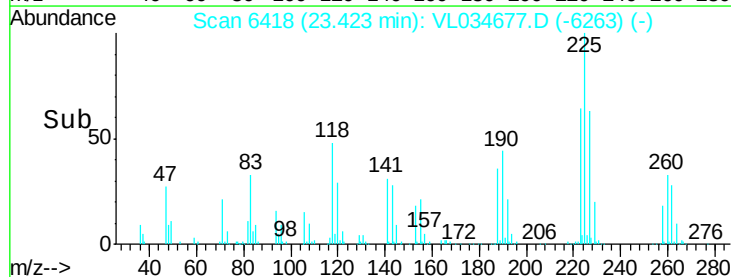
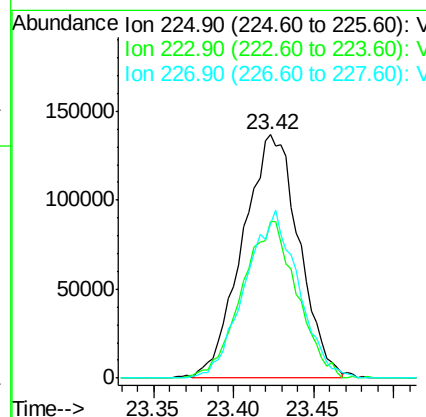
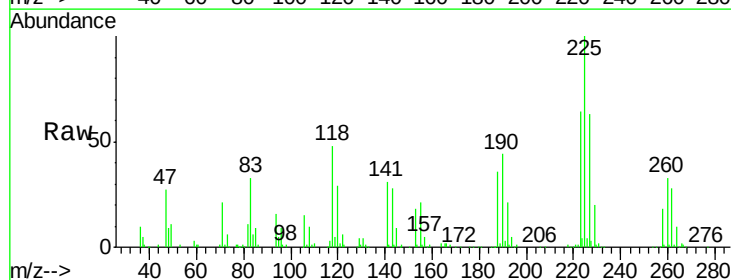
RT: 23.42 min Scan# 6418

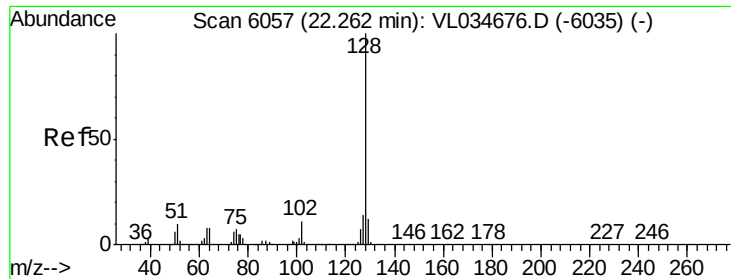
Delta R.T. -0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:	225	Resp:	331344
Ion Ratio	Lower	Upper	
225	100		
223	62.8	51.3	76.9
227	65.0	51.3	76.9





#79

Naphthalene

Concen: 2.526 ppbv

RT: 22.27 min Scan# 6058

Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Instrument :

MSVOA_L

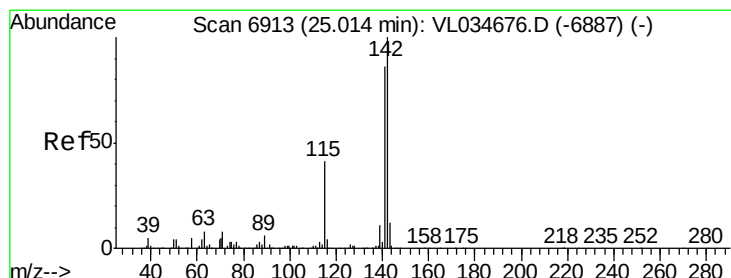
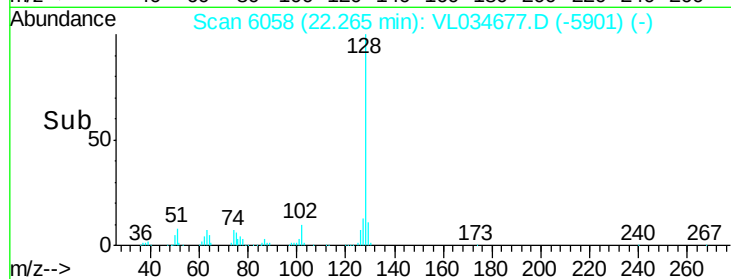
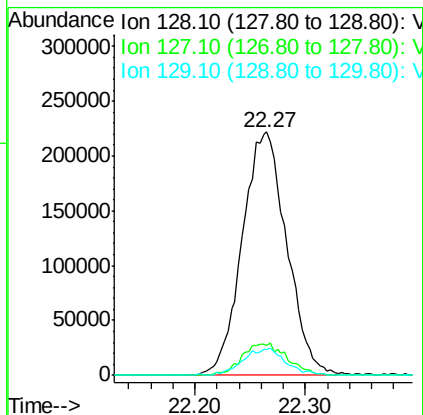
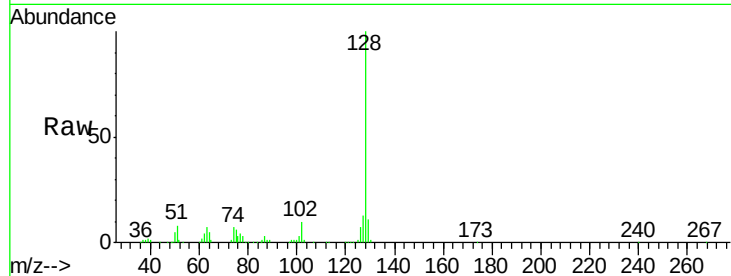
ClientSampleId :

VSTDIC002

Tot Ion:	128	Resp:	618784
Ion Ratio	Lower	Upper	
128	100		
127	12.5	11.0	16.6
129	10.8	9.4	14.2

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 4.233 ppbv

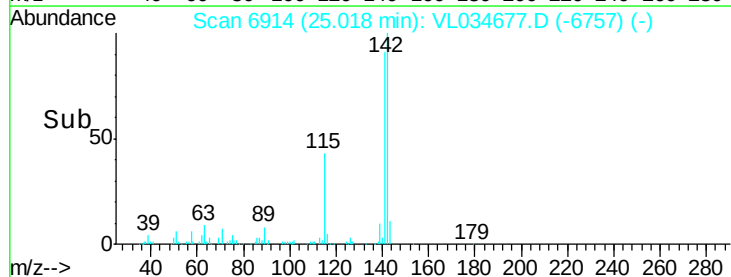
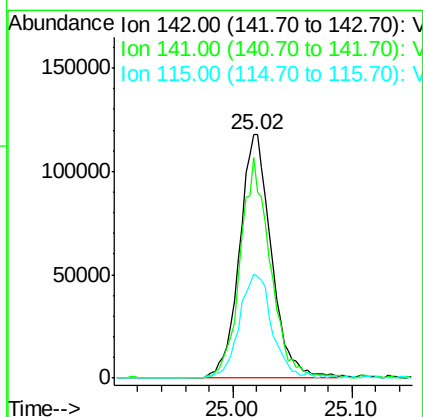
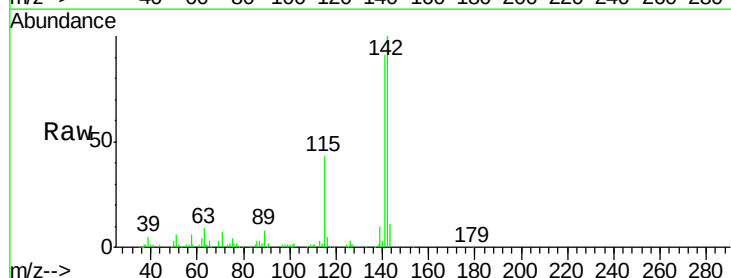
RT: 25.02 min Scan# 6914

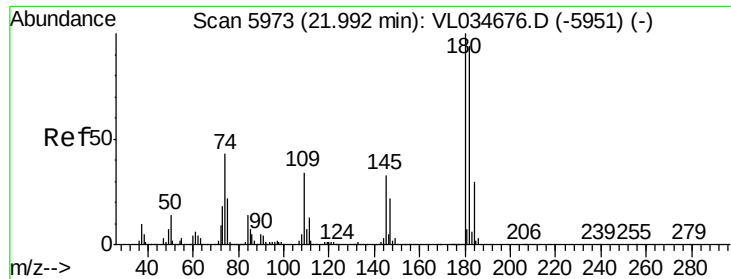
Delta R.T. 0.00 min

Lab File: VL034677.D

Acq: 26 Feb 2020 3:08

Tgt Ion:	142	Resp:	218517
Ion Ratio	Lower	Upper	
142	100		
141	85.9	66.5	99.7
115	44.8	30.6	46.0





#81
 1,2,4-Trichlorobenzene
 Concen: 2.393 ppbv
 RT: 21.99 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL034677.D
 Acq: 26 Feb 2020 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	357916		
182	95.7		76.5	114.7
184	30.6		25.2	37.8

Manual Integrations
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