

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034668.D
 Acq On : 25 Feb 2020 11:58
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:41 PM

Quant Time: Feb 25 12:33:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1183475	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2422560	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2530057	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2034752	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	332568	1.276	ppbv	92
3) Chlorodifluoromethane	2.95	51	307930	2.153	ppbv	96
4) Chloromethane	3.10	50	187732	2.146	ppbv	99
5) Vinyl Chloride	3.22	62	172633	2.066	ppbv	100
6) Bromomethane	3.44	94	84546m	1.945	ppbv	
7) Chloroethane	3.52	64	63076	2.030	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	398427	1.955	ppbv	100
9) Propene	2.97	41	124180	2.230	ppbv	99
10) Heptane	8.13	43	330650	2.360	ppbv	100
11) Trichlorofluoromethane	3.92	101	399374	1.687	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.47	101	262755	1.701	ppbv	96
13) Ethanol	3.58	45	38720	2.596	ppbv	87
14) Bromoethene	3.71	108	119247	1.968	ppbv	99
15) Acetone	3.82	43	362396	2.084	ppbv	96
16) 1,3-Butadiene	3.29	39	147988	2.143	ppbv	96
17) tert-Butyl alcohol	4.27	59	255209	1.995	ppbv	100
18) 1,1-Dichloroethene	4.26	96	127215	1.951	ppbv	77
19) Isopropyl Alcohol	3.95	45	239166	2.356	ppbv #	97
20) Methylene Chloride	4.32	84	129333	1.953	ppbv	92
21) Allyl Chloride	4.39	41	208989	1.935	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	124027	1.816	ppbv	93
23) Vinyl Acetate	5.06	43	423622	2.135	ppbv	98
24) 1,1-Dichloroethane	5.00	63	350550	2.116	ppbv	99
25) Ethyl Acetate	5.67	43	620667	2.204	ppbv	99
26) Hexane	5.68	57	271961	2.306	ppbv	97
27) Carbon Disulfide	4.53	76	302050	1.898	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	396534	1.971	ppbv	98
29) Chloroform	5.74	83	424727	2.037	ppbv	96
30) Cyclohexane	7.14	84	201770	2.309	ppbv	88
31) cis-1,2-Dichloroethene	5.54	61	262274	2.140	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	380049	1.697	ppbv	98
34) 2-Butanone	5.23	43	404829	2.301	ppbv	100
35) Carbon Tetrachloride	7.02	117	392337	1.694	ppbv	97
36) Benzene	6.90	78	512618	2.379	ppbv	99
37) 1,2-Dichloroethane	6.31	62	332451	1.850	ppbv	100
38) Trichloroethene	7.85	130	201004	2.213	ppbv	92
39) 1,2-Dichloropropane	7.63	63	204739	2.292	ppbv	96
40) 1,4-Dioxane	7.86	88	74634m	2.174	ppbv	
41) Tetrahydrofuran	6.05	42	205859	2.243	ppbv	98
42) Bromodichloromethane	7.81	83	427709	1.933	ppbv	90
43) Methyl Methacrylate	8.03	69	195613	2.258	ppbv	99

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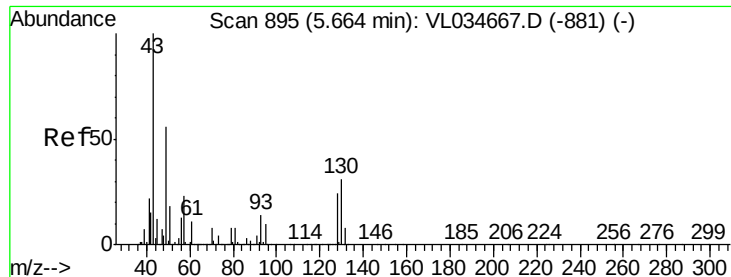
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	954131	2.441	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	225181	1.985	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	270780m	2.100	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	220962	2.284	ppbv	93
48) Dibromochloromethane	10.33	129	343496	1.938	ppbv	100
49) Bromoform	13.07	173	305210	1.961	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	556109	2.217	ppbv	100
51) 2-Hexanone	10.16	43	451166	2.285	ppbv #	99
52) Tetrachloroethene	11.25	164	175303	2.026	ppbv	95
53) Toluene	9.83	91	566212	2.392	ppbv	99
54) 1,2-Dibromoethane	10.64	107	308065	2.125	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.16	131	239573m	1.918	ppbv	
57) Chlorobenzene	12.18	112	462650	2.222	ppbv	93
58) Ethyl Benzene	12.74	91	793773	2.345	ppbv	100
59) m/p-Xylene	13.02	91	1343257m	4.488	ppbv	
60) o-Xylene	13.73	91	671561	2.234	ppbv	98
61) Styrene	13.56	104	480244	2.396	ppbv	100
62) Isopropylbenzene	14.70	105	885391	2.273	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.71	83	500966	2.155	ppbv	99
64) n-propylbenzene	15.60	120	222889	2.224	ppbv	85
65) tert-Butylbenzene	16.79	119	776937	2.202	ppbv	96
66) Benzyl Chloride	17.03	91	283929	1.919	ppbv	99
67) sec-Butylbenzene	17.34	105	1143816	2.359	ppbv	97
69) p-Isopropyltoluene	17.69	119	920599	2.338	ppbv	98
70) n-Butylbenzene	18.59	91	977777	2.339	ppbv	97
71) 2-Chlorotoluene	15.49	91	691317	2.338	ppbv	99
72) 4-Ethyltoluene	15.88	105	760829	2.304	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	713492	2.212	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	782734	2.192	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	431654	2.099	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	438112	2.162	ppbv	97
77) 1,2-Dichlorobenzene	17.87	146	414517	2.098	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	357689m	1.893	ppbv	
79) Naphthalene	22.27	128	599357	2.132	ppbv #	94
80) Naphthalene, 2-methyl-	25.01	142	102868	0.951	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	349179m	2.014	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL034668.D

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VSTDIC002

Tot Ion: 49 Resp: 1183475

Ion Ratio Lower Upper

49 100

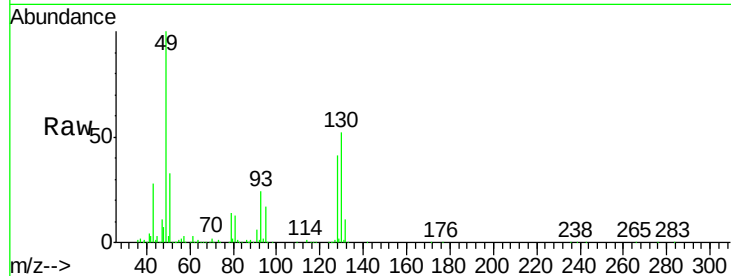
128 43.4 21.9 65.5

130 54.5 27.9 83.7

Manual Integrations
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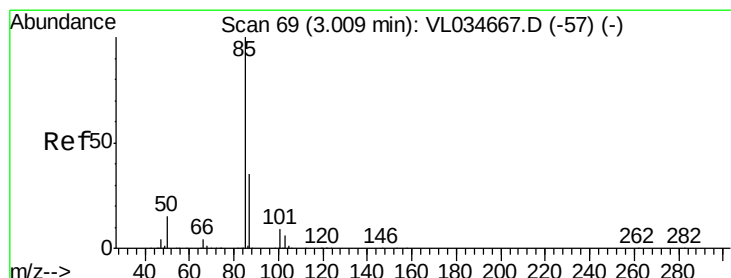
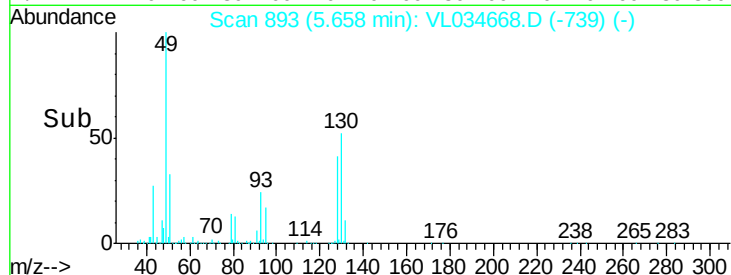
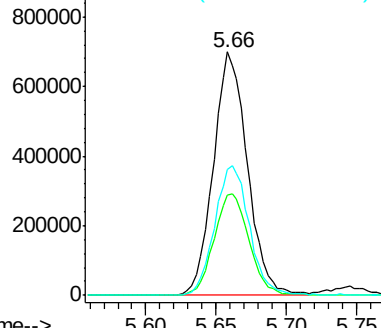
2/26/2020 12:38:41 PM



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: 1.276 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL034668.D

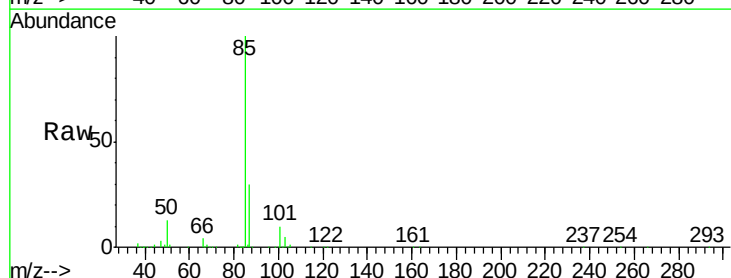
Acq: 25 Feb 2020 11:58

Tgt Ion: 85 Resp: 332568

Ion Ratio Lower Upper

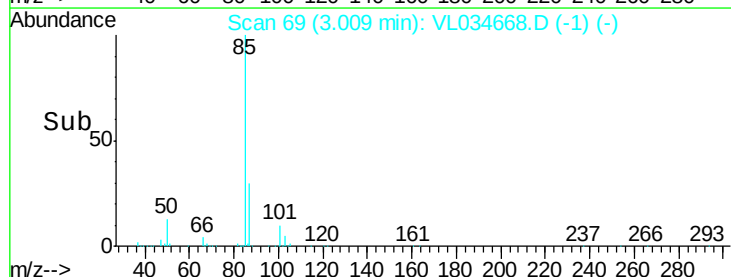
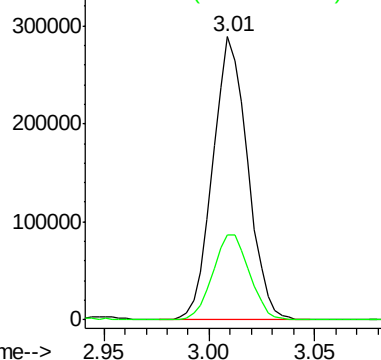
85 100

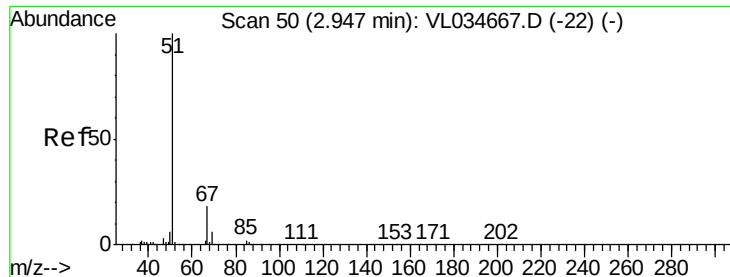
87 30.0 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.153 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tot Ion: 51 Resp: 307930

Ion Ratio Lower Upper

51 100

67 16.9 15.0 22.4

Instrument :

MSVOA_L

ClientSampleId :

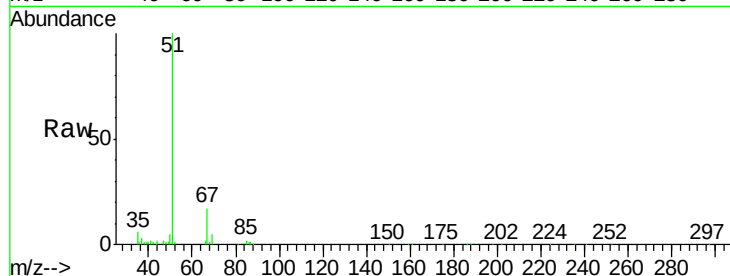
VSTDIC002

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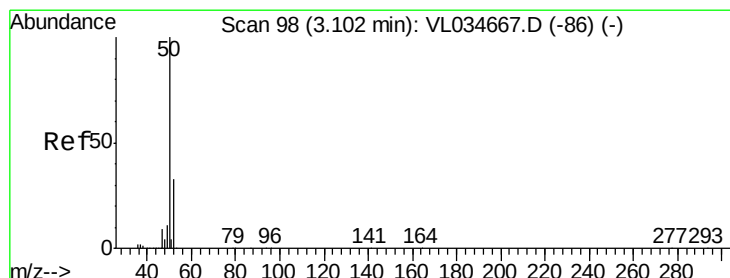
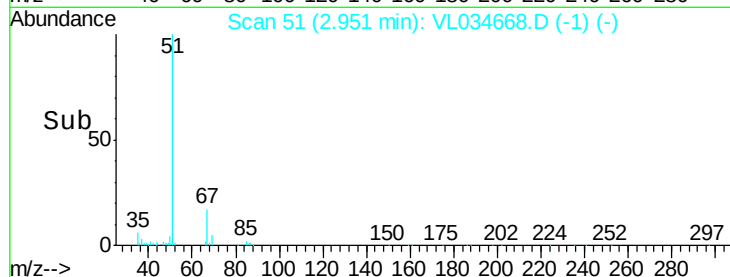
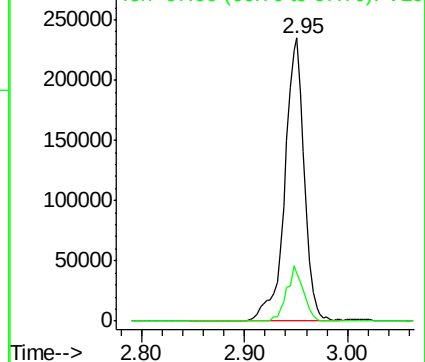
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2/26/2020 12:38:41 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.146 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034668.D

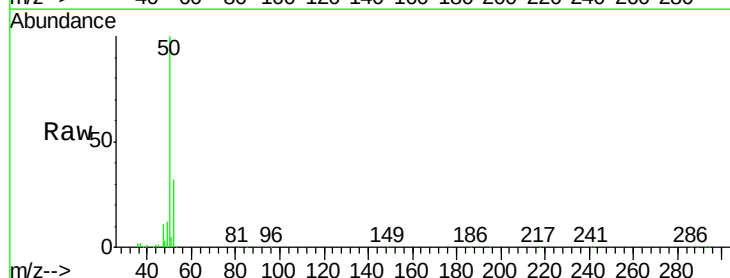
Acq: 25 Feb 2020 11:58

Tgt Ion: 50 Resp: 187732

Ion Ratio Lower Upper

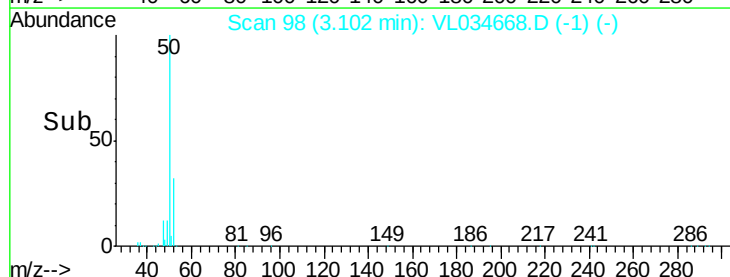
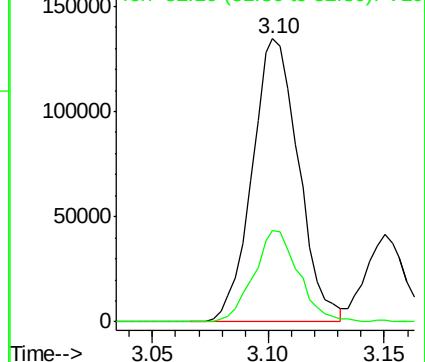
50 100

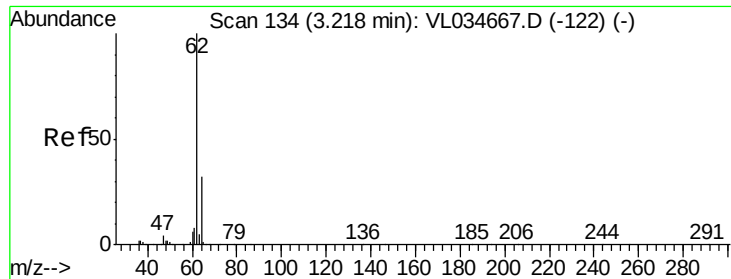
52 32.1 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 2.066 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC002

Tot Ion: 62 Resp: 172633

Ion Ratio Lower Upper

62 100

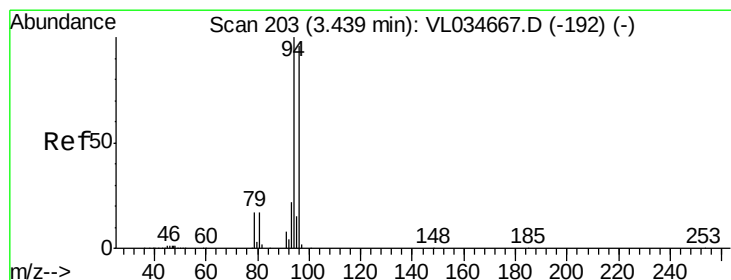
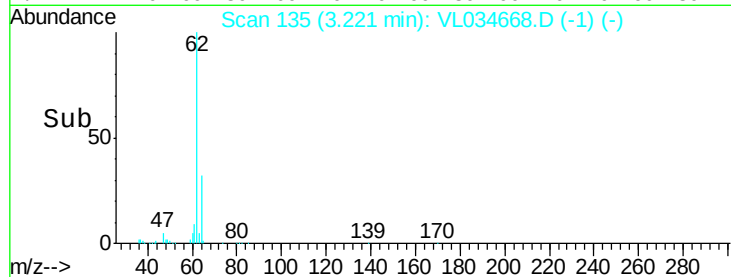
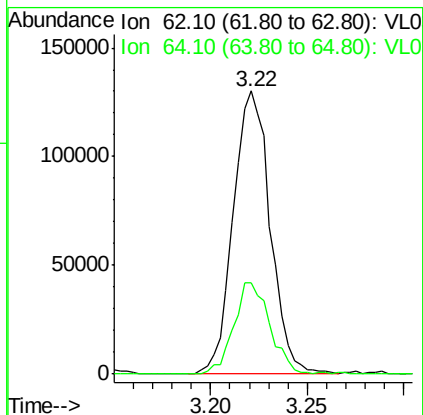
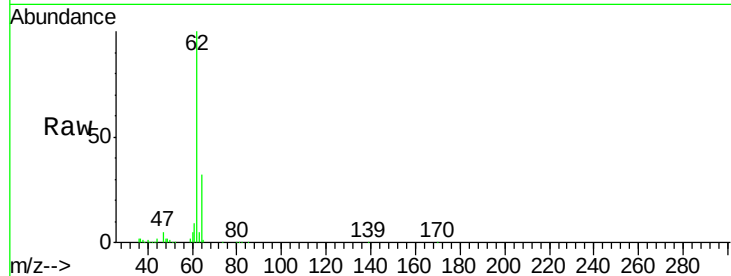
64 32.1 25.7 38.5

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2/26/2020 12:38:41 PM



#6

Bromomethane

Concen: 1.945 ppbv m

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034668.D

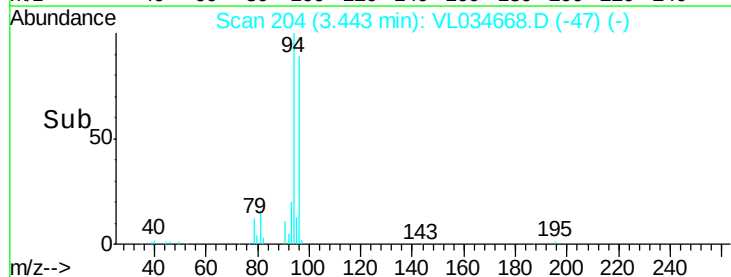
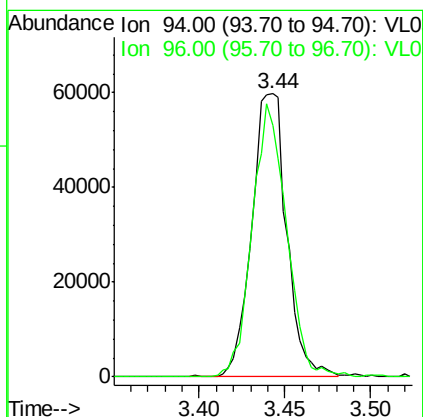
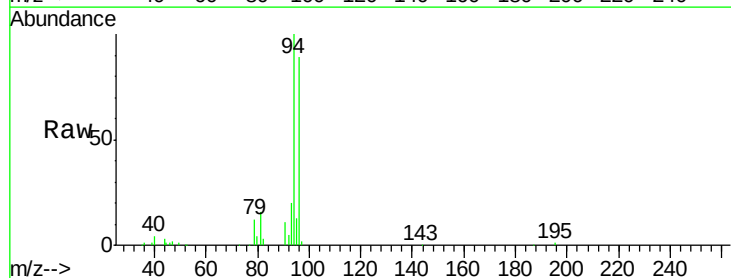
Acq: 25 Feb 2020 11:58

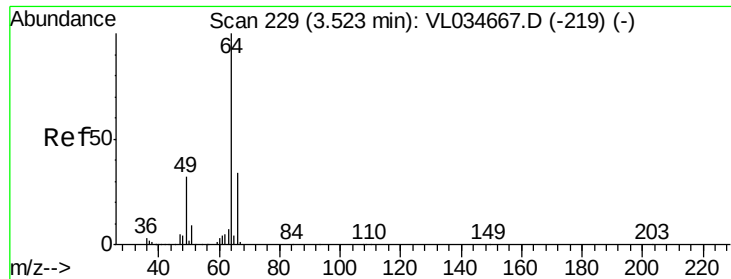
Tgt Ion: 94 Resp: 84546

Ion Ratio Lower Upper

94 100

96 88.8 77.0 115.4





#7

Chloroethane

Concen: 2.030 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 63076

Ion Ratio Lower Upper

64 100

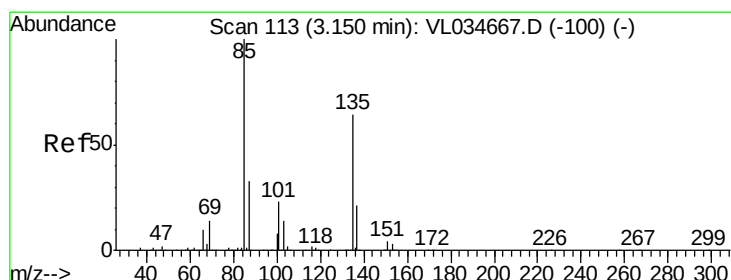
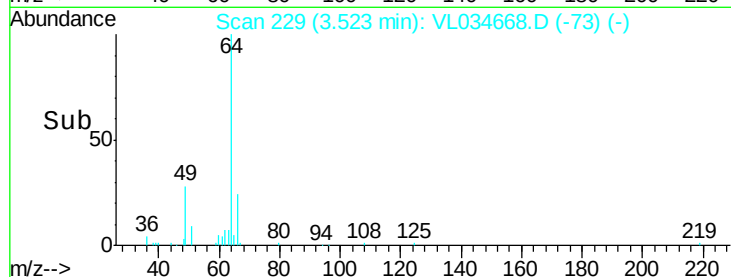
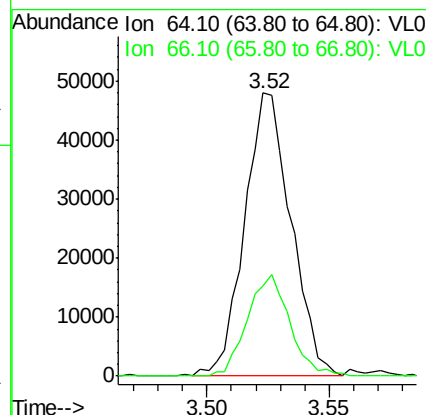
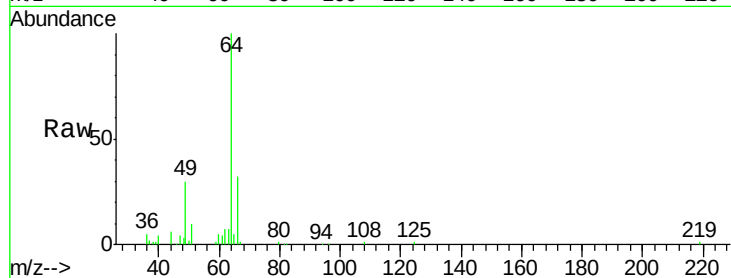
66 32.6 26.9 40.3

Manual Integrations

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2/26/2020 12:38:41 PM



#8

Dichlorotetrafluoroethane

Concen: 1.955 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034668.D

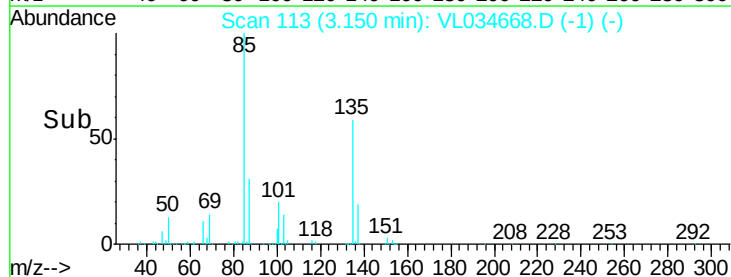
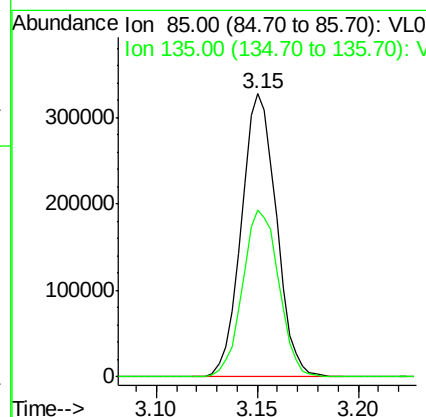
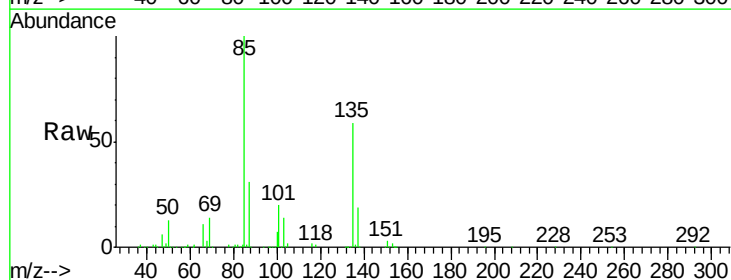
Acq: 25 Feb 2020 11:58

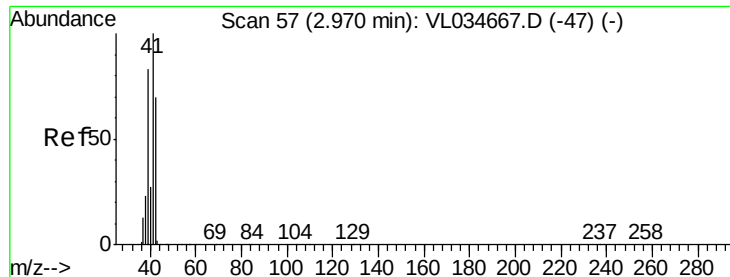
Tgt Ion: 85 Resp: 398427

Ion Ratio Lower Upper

85 100

135 61.3 49.3 73.9





#9

Propene

Concen: 2.230 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 124180

Ion Ratio Lower Upper

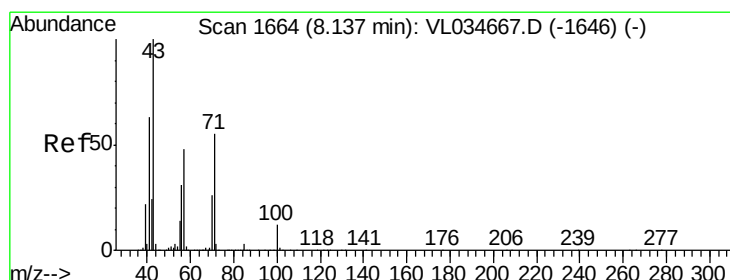
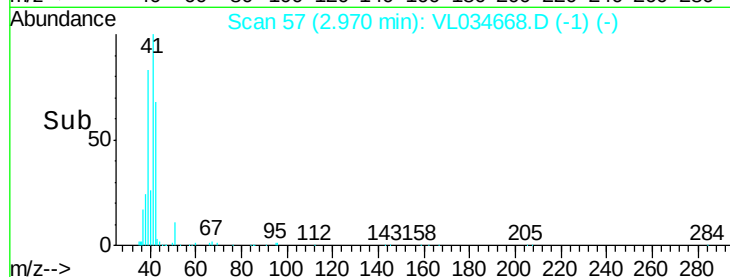
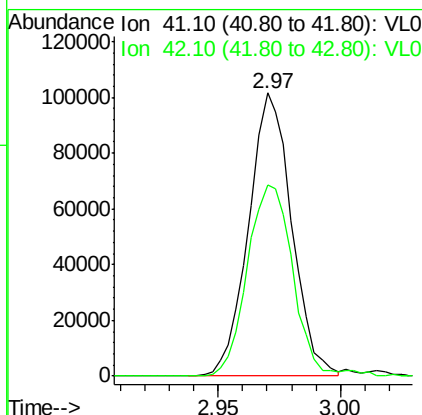
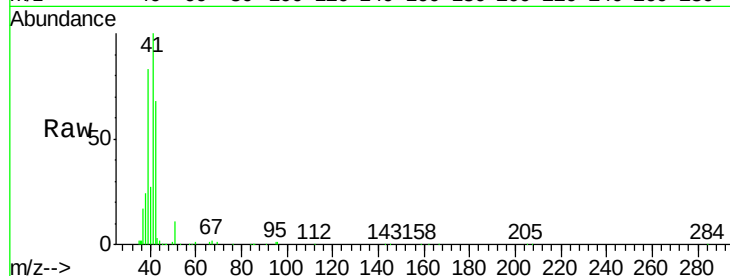
41 100

42 71.8 57.0 85.4

Manual Integrations
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2/26/2020 12:38:41 PM



#10

Heptane

Concen: 2.360 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034668.D

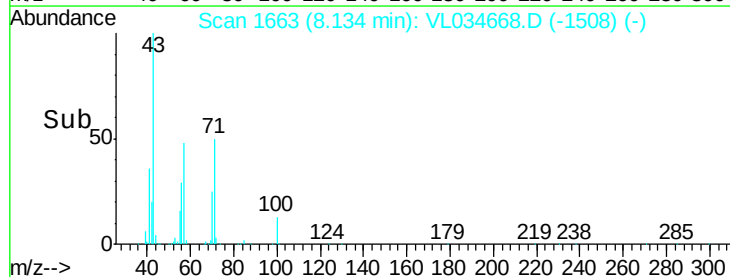
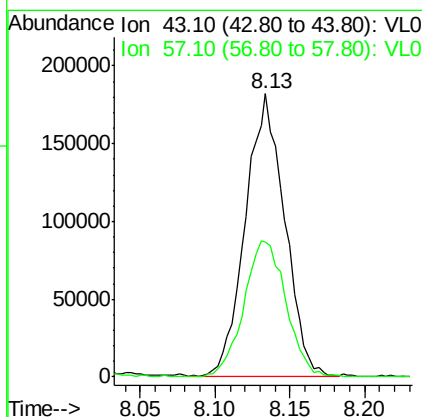
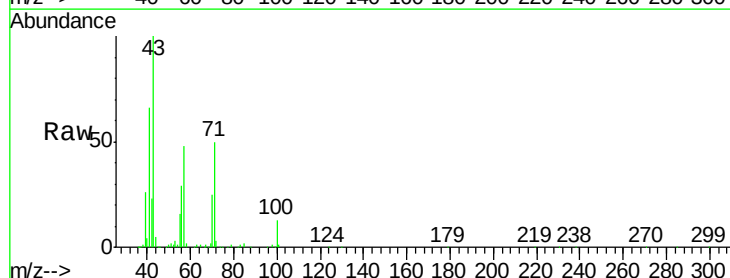
Acq: 25 Feb 2020 11:58

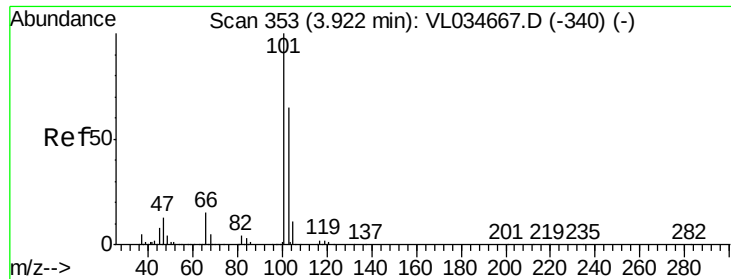
Tgt Ion: 43 Resp: 330650

Ion Ratio Lower Upper

43 100

57 52.1 41.7 62.5





#11

Trichlorofluoromethane

Concen: 1.687 ppbv

RT: 3.92 min Scan# 353

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 399374

Ion Ratio Lower Upper

101 100

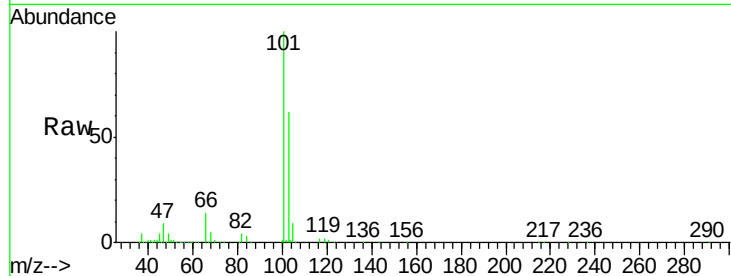
103 61.5 52.3 78.5

Manual Integrations

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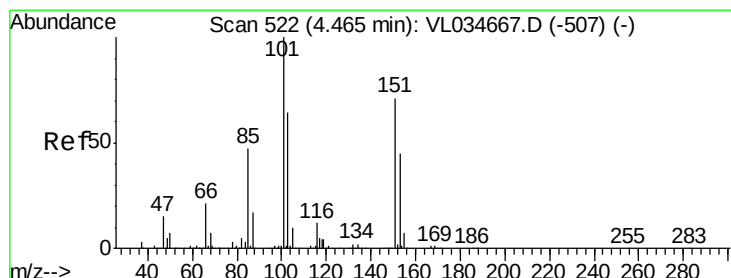
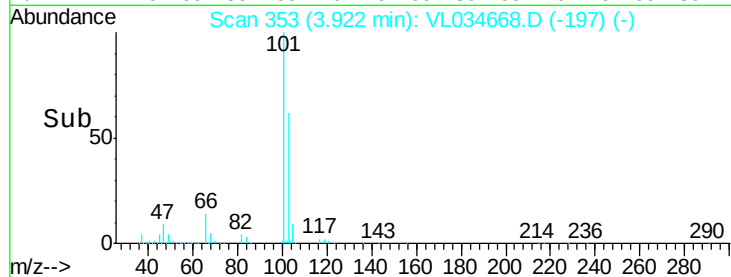
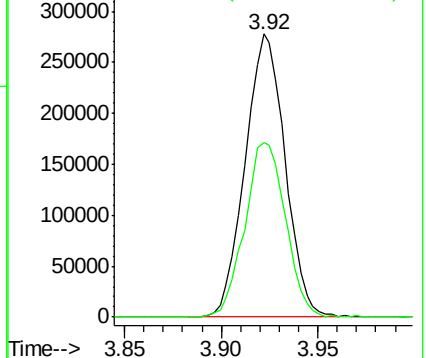
MMDadoda

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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: 1.701 ppbv

RT: 4.47 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL034668.D

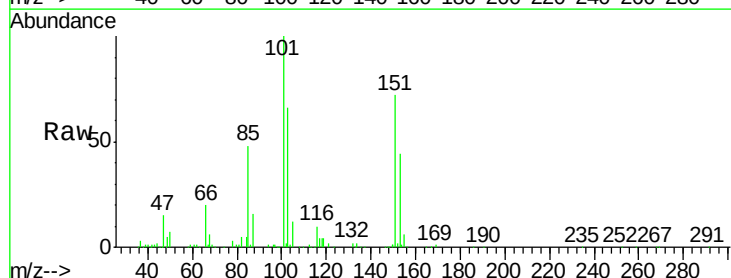
Acq: 25 Feb 2020 11:58

Tgt Ion:101 Resp: 262755

Ion Ratio Lower Upper

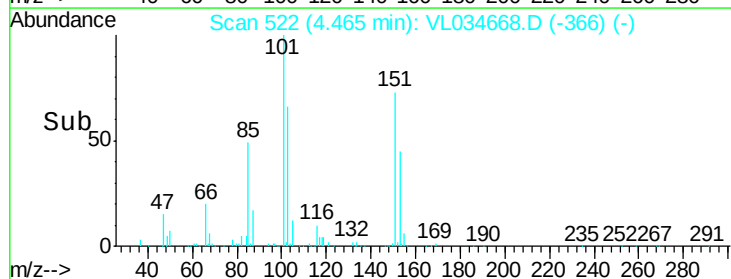
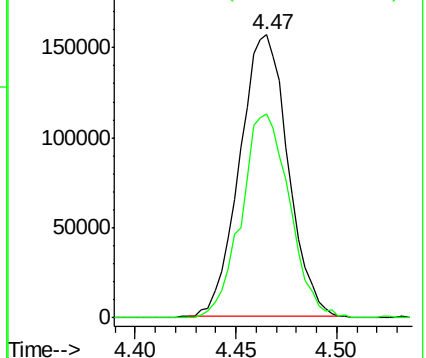
101 100

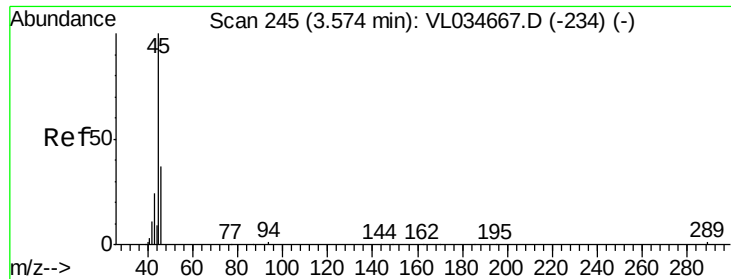
151 72.3 55.5 83.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





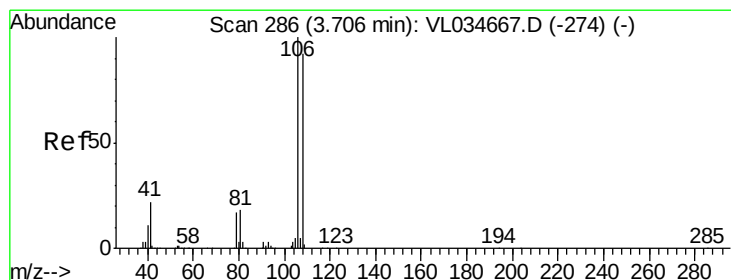
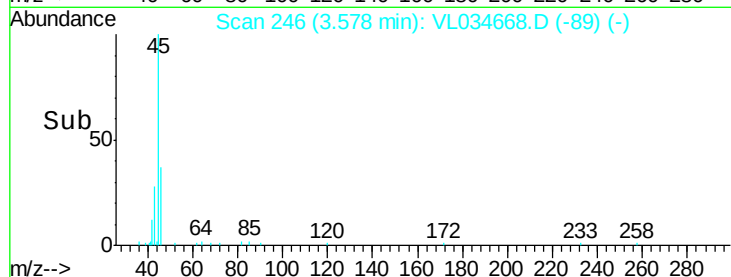
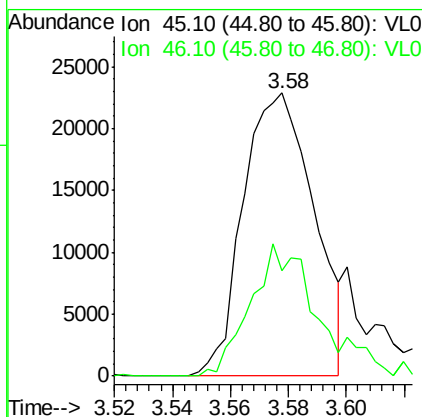
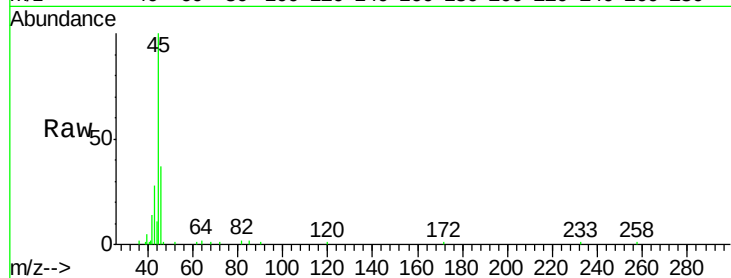
#13
Ethanol
Concen: 2.596 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
46	45.4	15.1	60.5

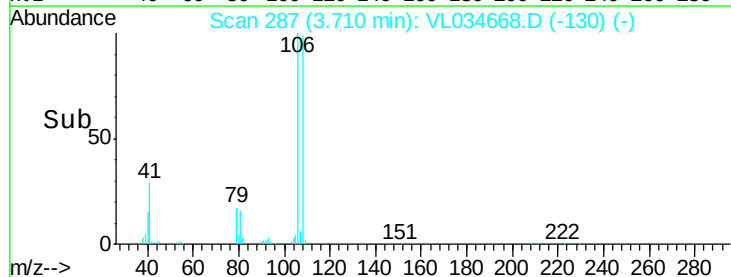
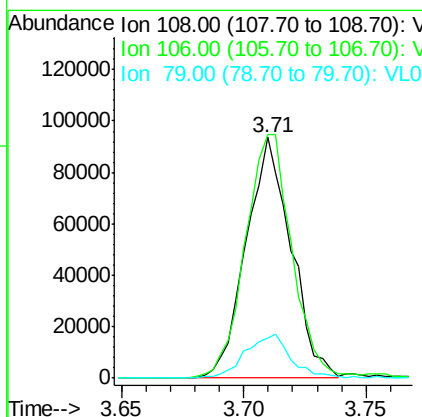
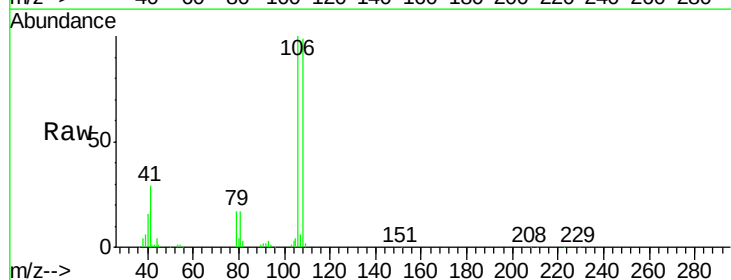
Manual Integrations
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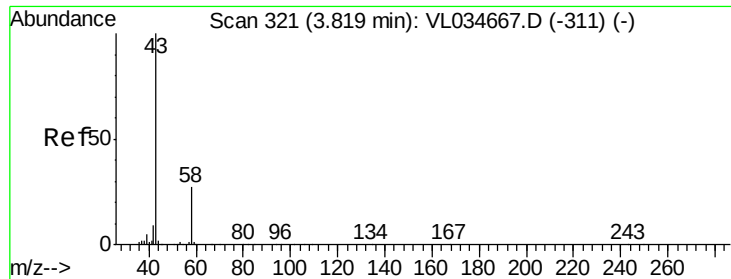
MMDadoda
2/26/2020 12:38:41 PM



#14
Bromoethene
Concen: 1.968 ppbv
RT: 3.71 min Scan# 287
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.4	86.4	129.6
79	18.4	14.6	22.0





#15

Acetone

Concen: 2.084 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 362396

Ion Ratio Lower Upper

43 100

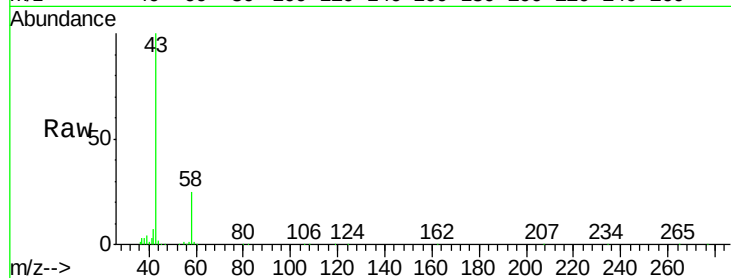
58 28.7 21.4 32.0

Manual Integrations

APPROVED

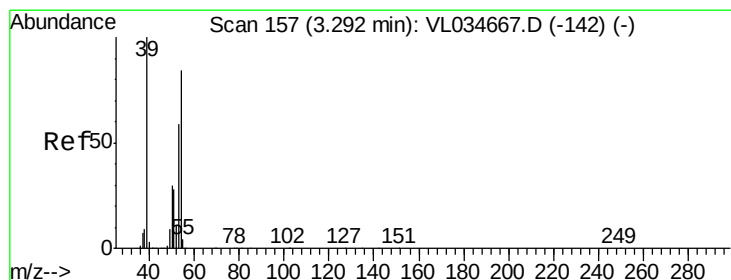
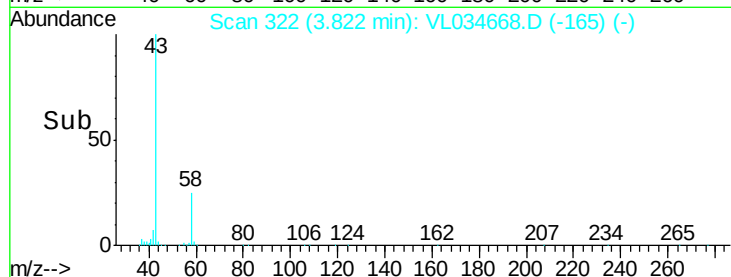
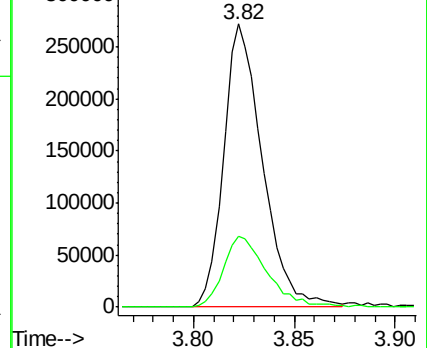
MMDadoda

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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: 2.143 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034668.D

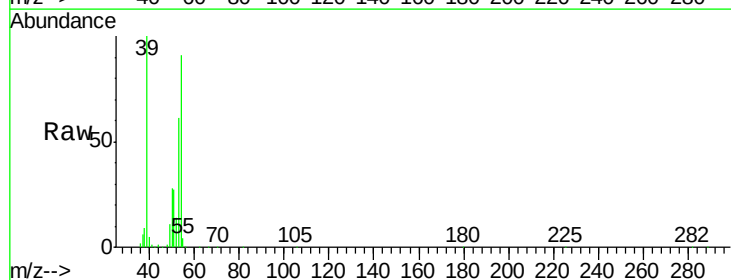
Acq: 25 Feb 2020 11:58

Tgt Ion: 39 Resp: 147988

Ion Ratio Lower Upper

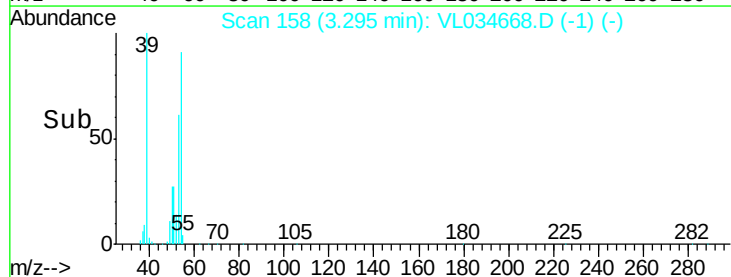
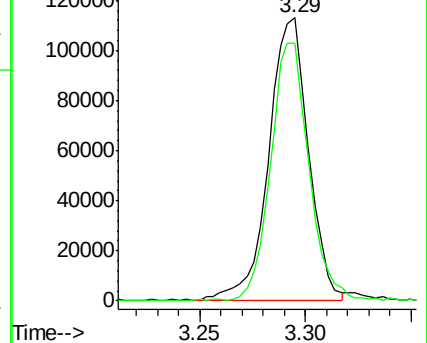
39 100

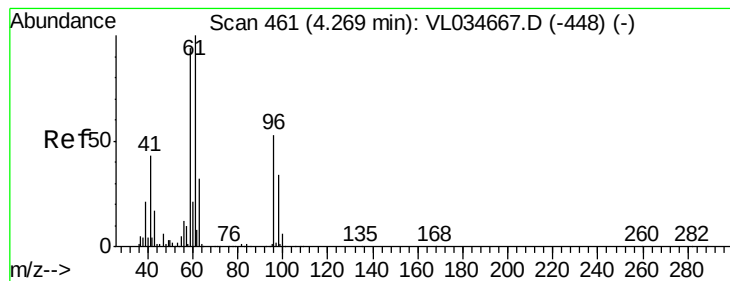
54 89.2 68.2 102.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

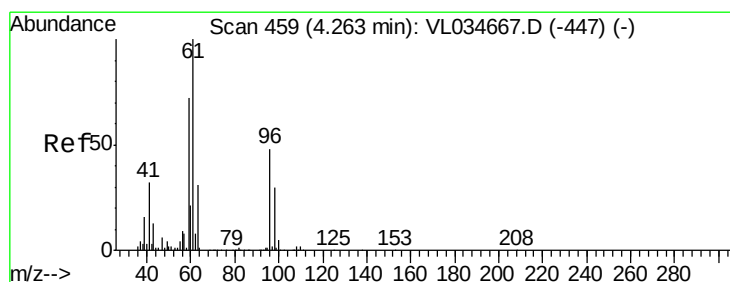
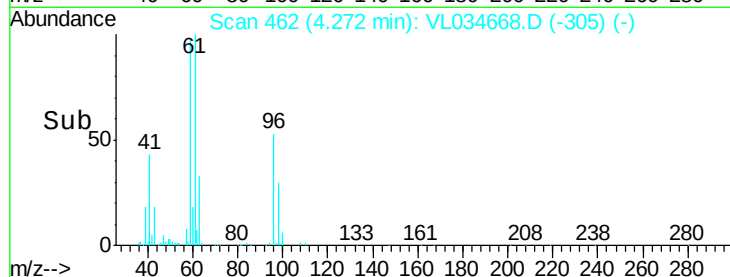
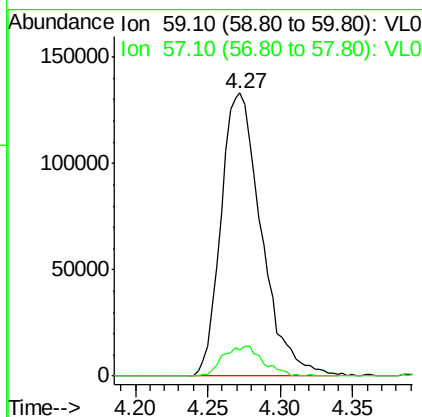
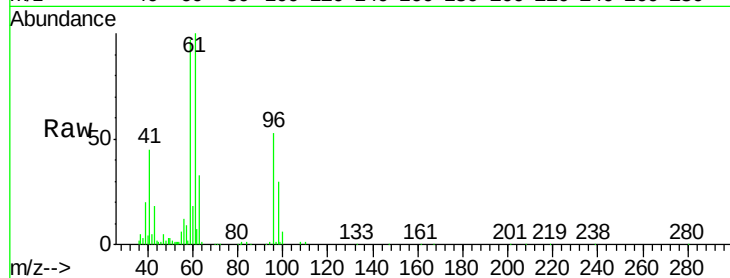
tert-Butyl alcohol
Concen: 1.995 ppbv
RT: 4.27 min Scan# 462
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.8	13.2

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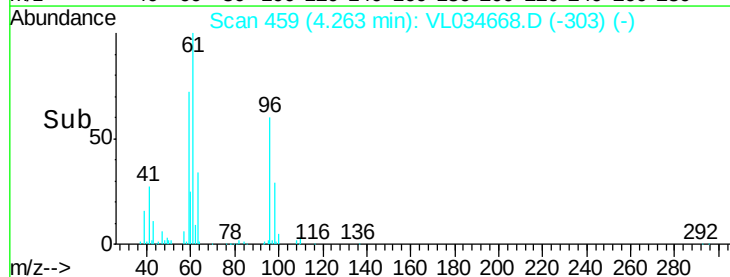
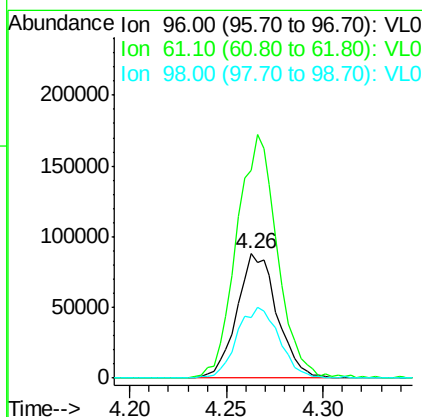
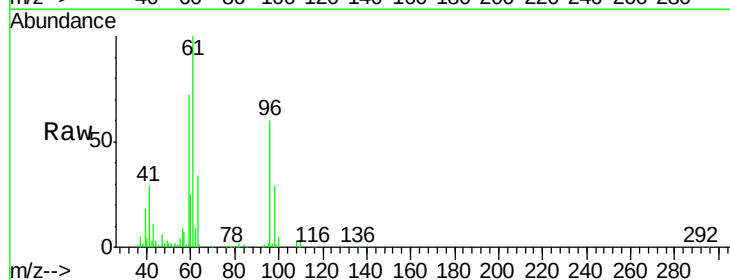
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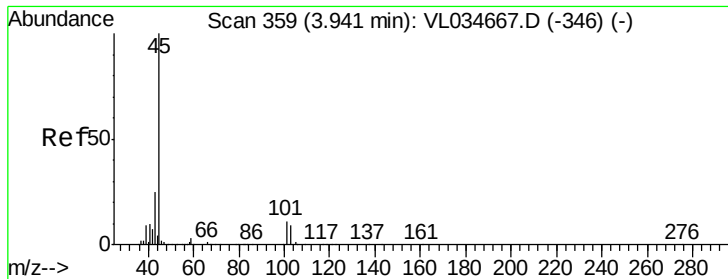


#18

1,1-Dichloroethene
Concen: 1.951 ppbv
RT: 4.26 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.5	165.3	247.9
98	49.2	48.9	73.3





#19

Isopropyl Alcohol

Concen: 2.356 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 239166

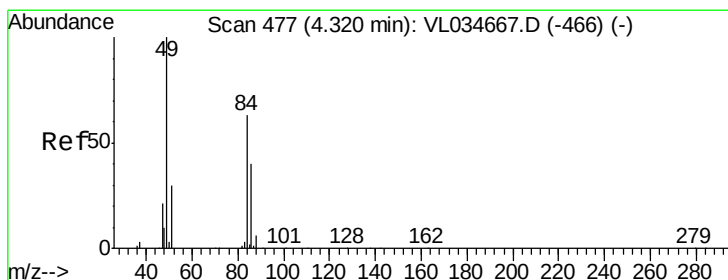
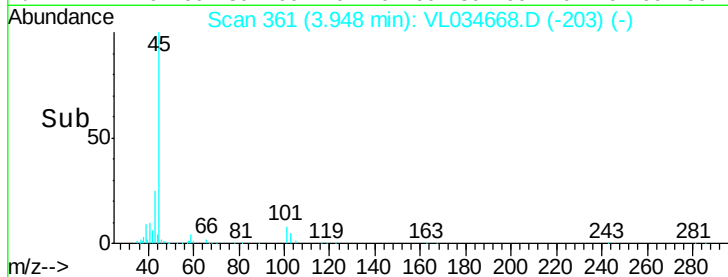
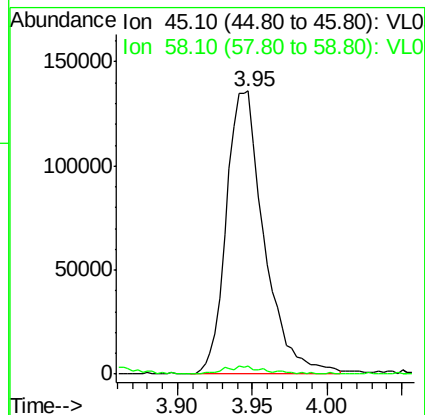
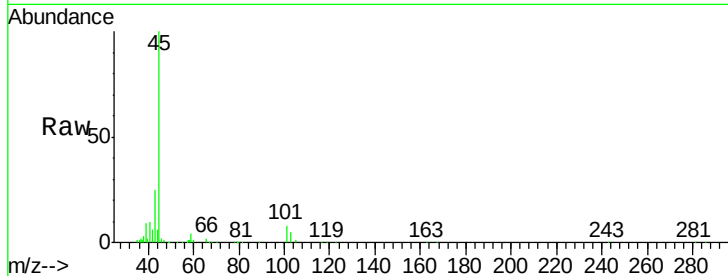
Ion Ratio Lower Upper

45 100

58 3.2 1.8 2.8#

Manual Integrations
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#20

Methylene Chloride

Concen: 1.953 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion: 84 Resp: 129333

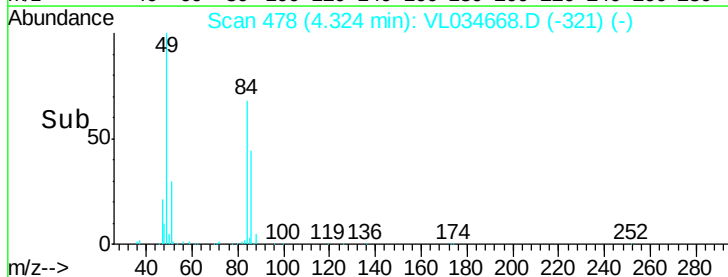
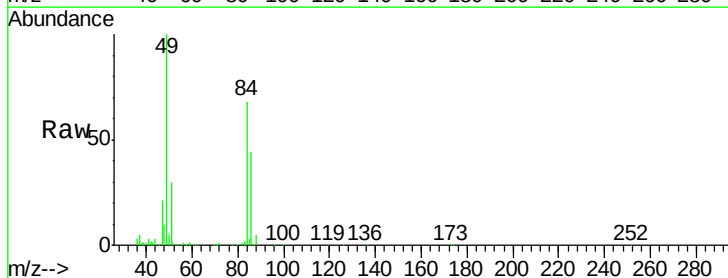
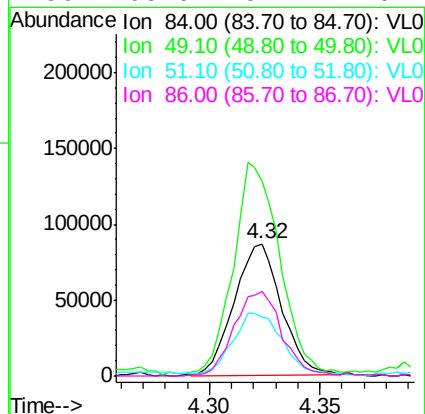
Ion Ratio Lower Upper

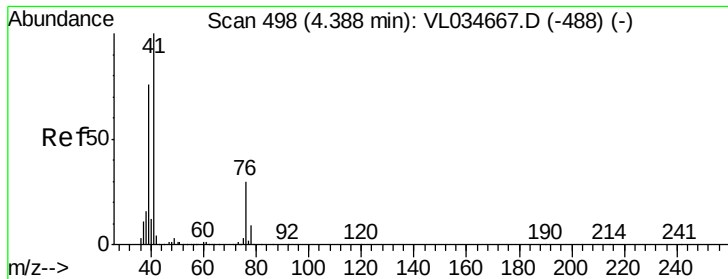
84 100

49 145.9 127.6 191.4

51 43.8 39.7 59.5

86 63.9 51.1 76.7





#21

Allvl Chloride

Concen: 1.935 ppbv

RT: 4.39 min Scan# 498

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

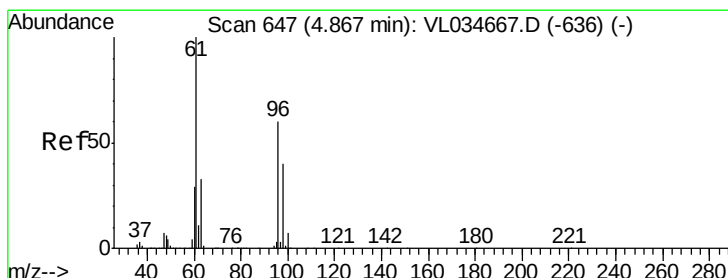
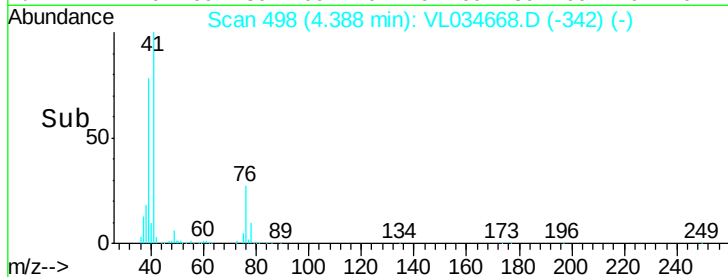
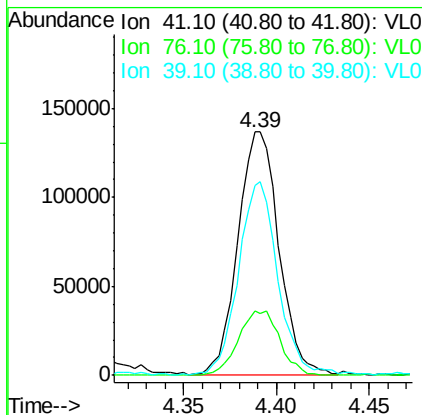
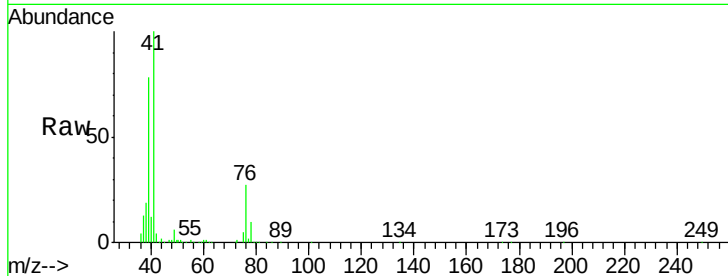
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.0	23.6	35.4
39	76.1	61.6	92.4

Manual Integrations
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2/26/2020 12:38:41 PM



#22

trans-1,2-Dichloroethene

Concen: 1.816 ppbv

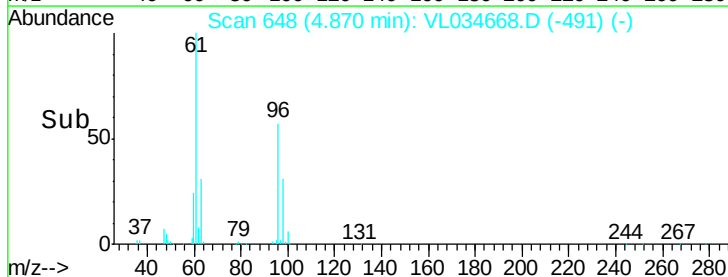
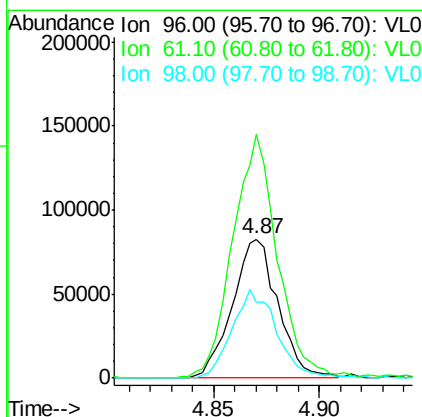
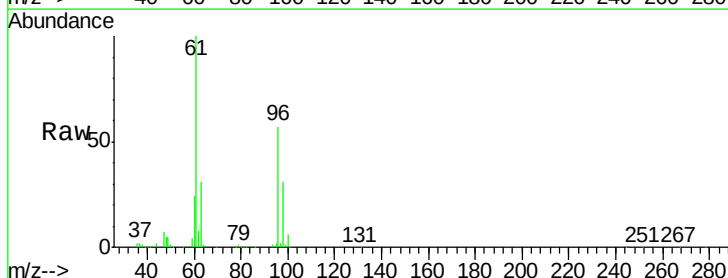
RT: 4.87 min Scan# 648

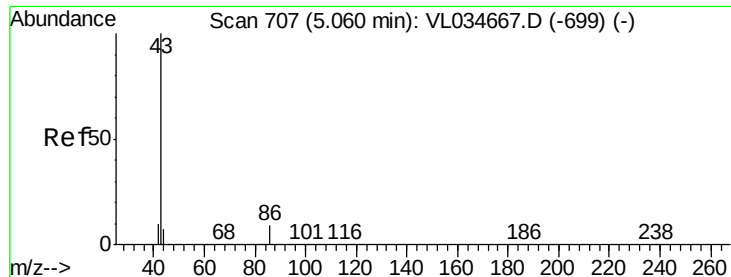
Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.6	134.3	201.5
98	55.0	53.8	80.8





#23

Vinyl Acetate

Concen: 2.135 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

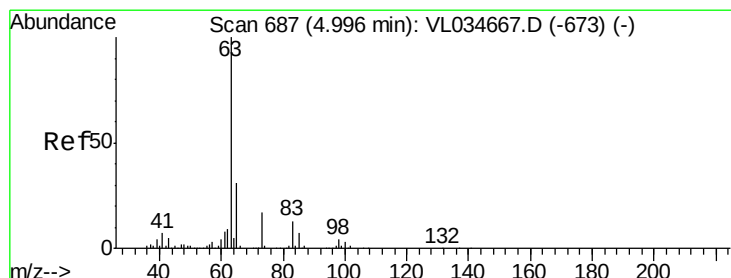
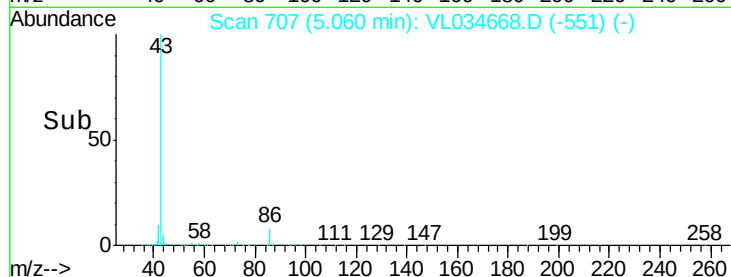
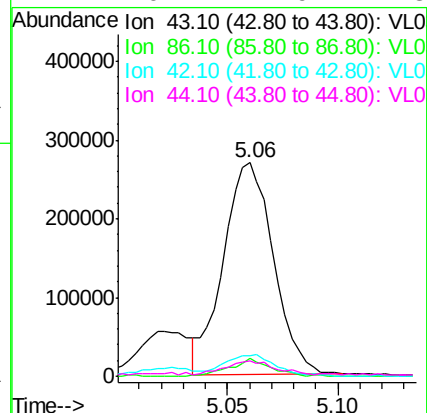
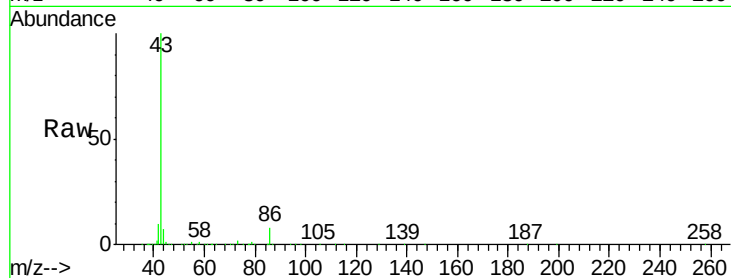
ClientSampleId :

VSTDIC002

Tot Ion	43	Resp	423622
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.3	9.5
42	9.6	8.6	12.8
44	6.1	4.9	7.3

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 2.116 ppbv

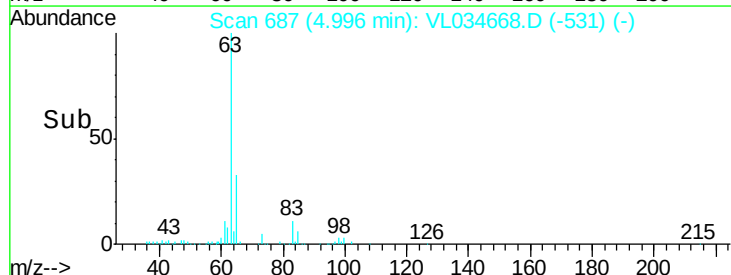
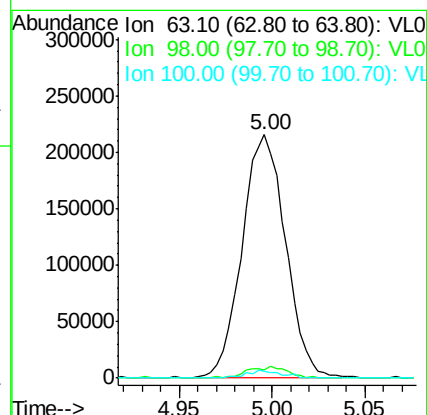
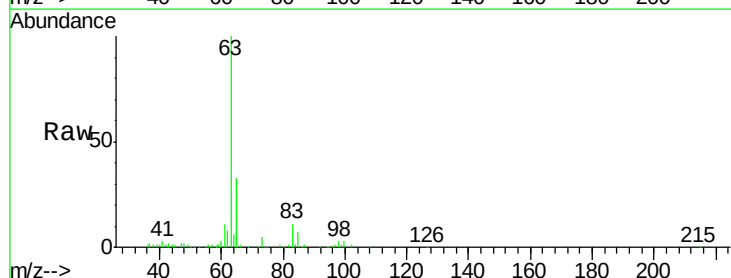
RT: 5.00 min Scan# 687

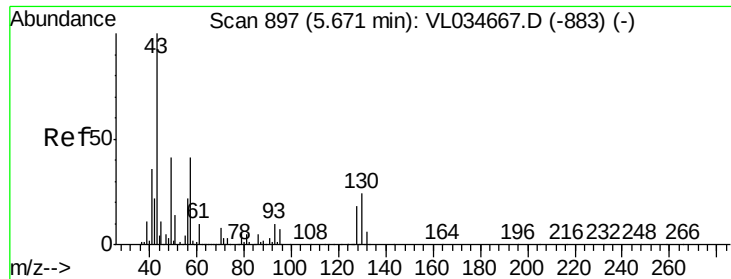
Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion	63	Resp	350550
Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.2	6.6
100	2.8	1.4	4.2





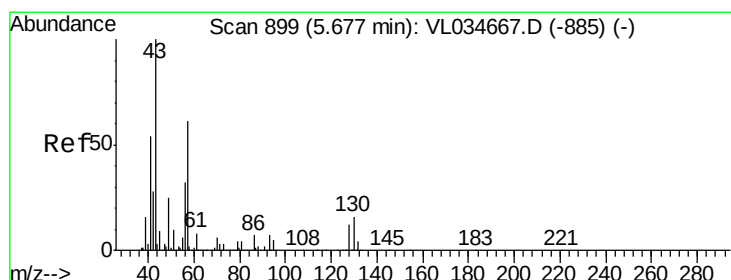
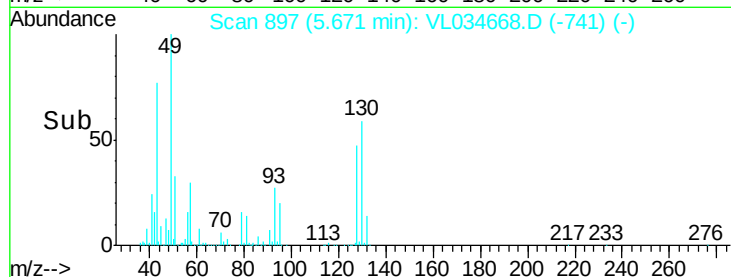
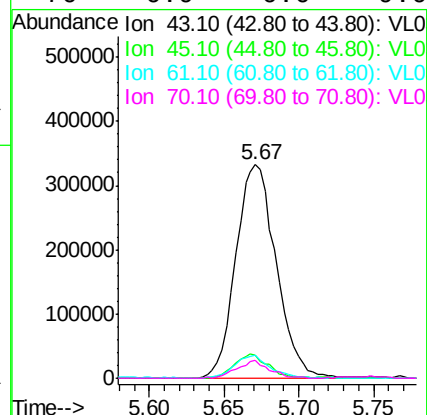
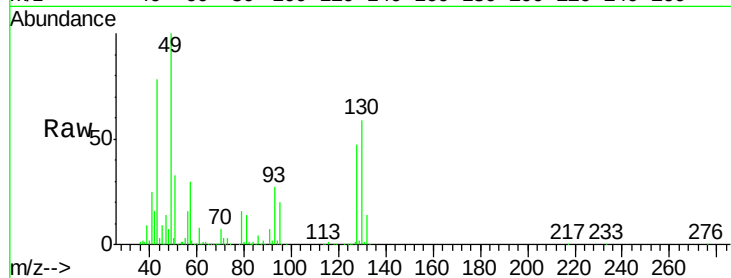
#25
Ethyl Acetate
Concen: 2.204 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.3	12.5
61	9.7	7.8	11.6
70	6.9	6.0	9.0

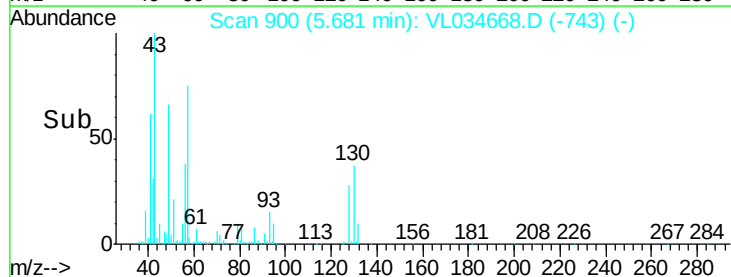
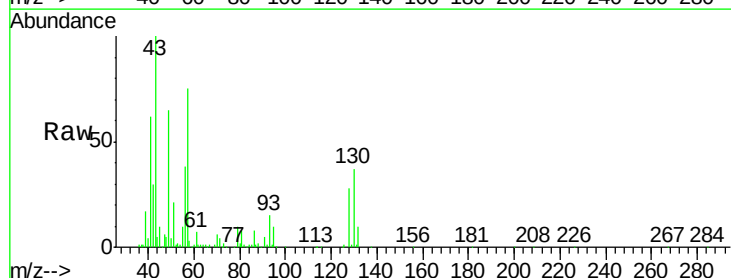
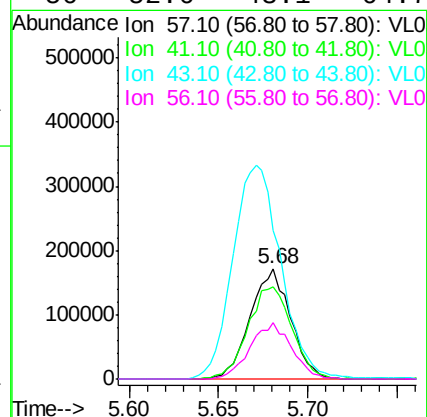
Manual Integrations
APPROVED

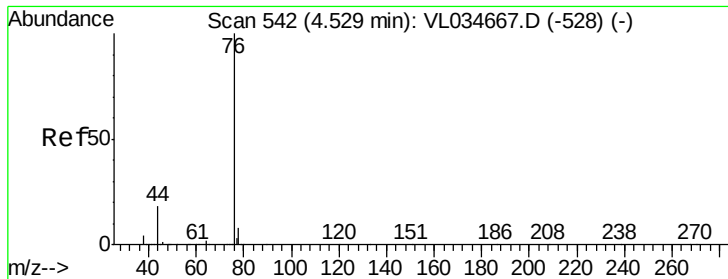
MMDadoda
2/26/2020 12:38:41 PM



#26
Hexane
Concen: 2.306 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.7	72.0	108.0
43	230.7	178.7	268.1
56	52.6	43.1	64.7





#27

Carbon Disulfide

Concen: 1.898 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

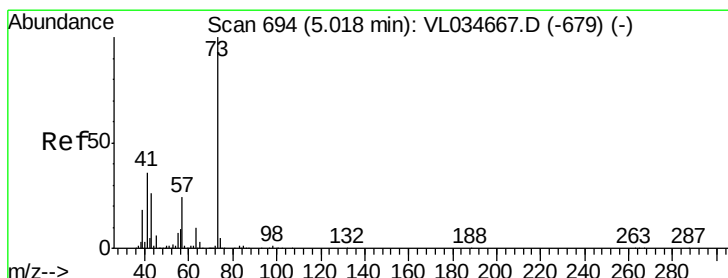
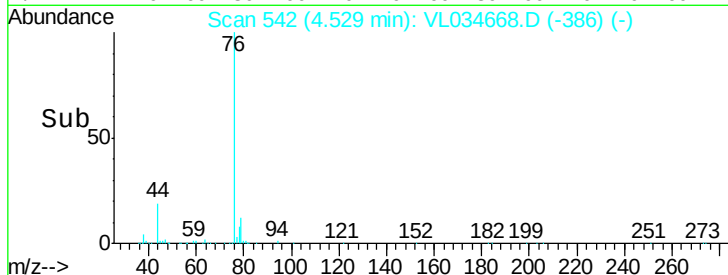
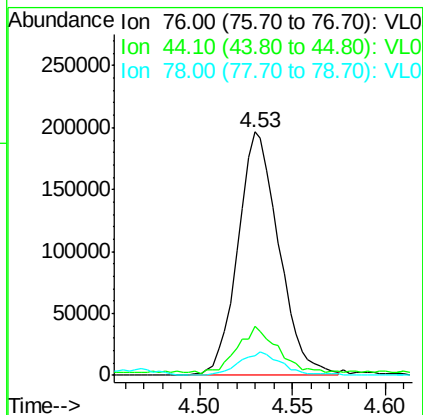
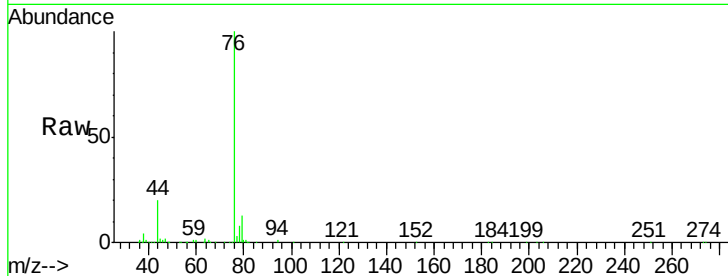
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	302050
Ion	Ratio	Lower	Upper
76	100		
44	19.9	15.0	22.4
78	10.2	7.7	11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 1.971 ppbv

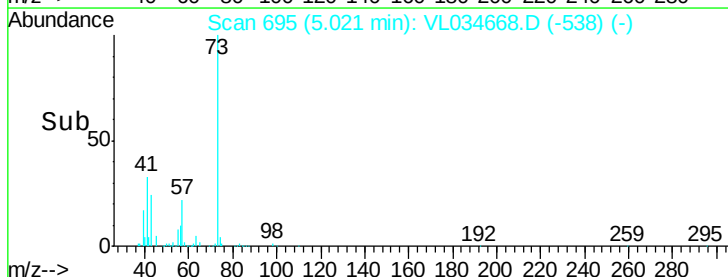
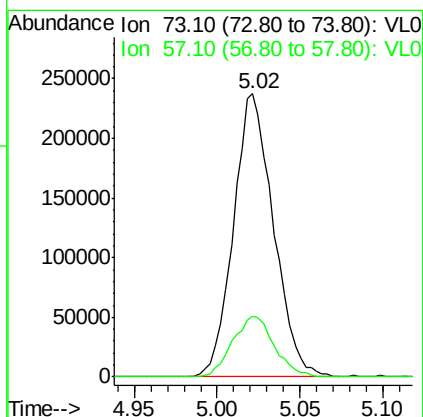
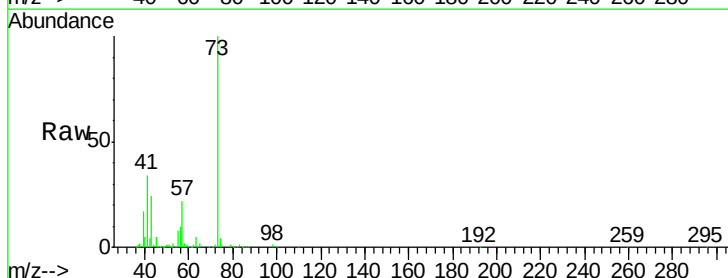
RT: 5.02 min Scan# 695

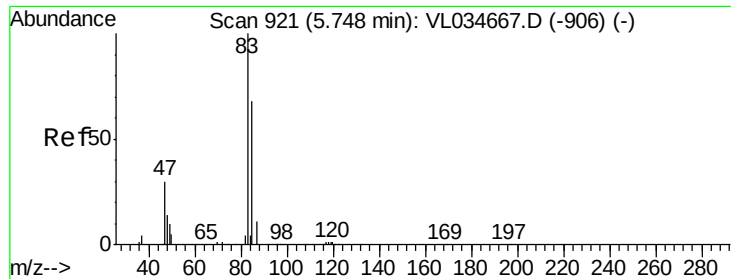
Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion:	73	Resp:	396534
Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.7	28.1





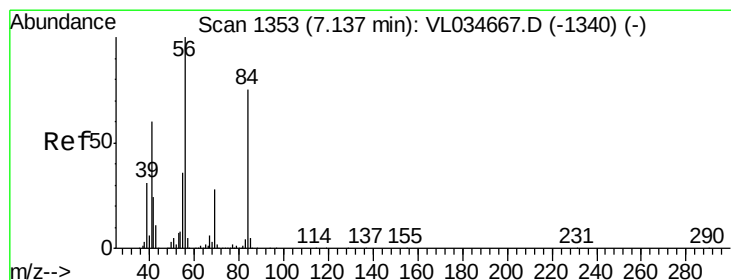
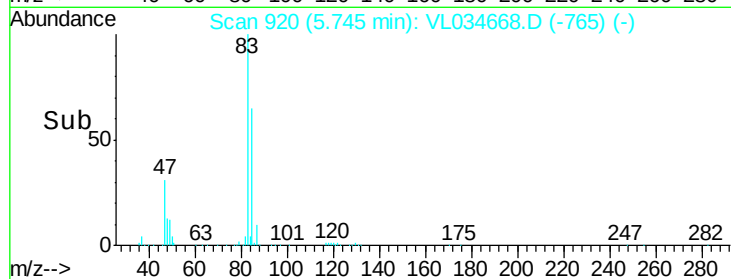
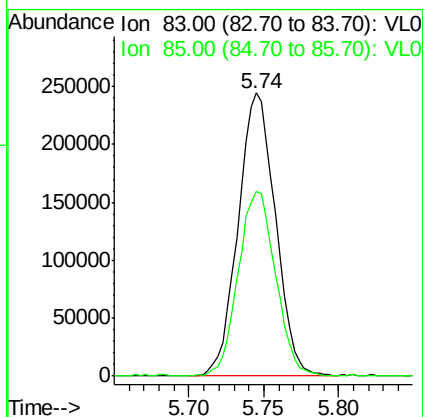
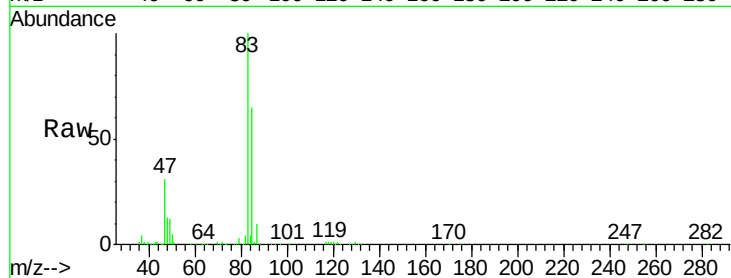
#29
Chloroform
Concen: 2.037 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	424727
Ion Ratio	Lower	Upper	
83	100		
85	65.2	54.7	82.1

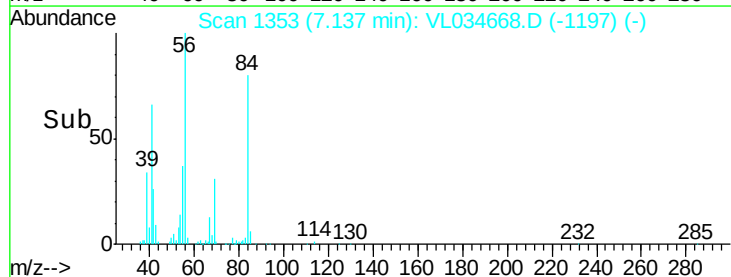
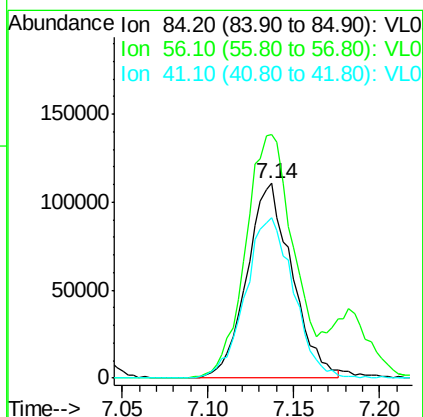
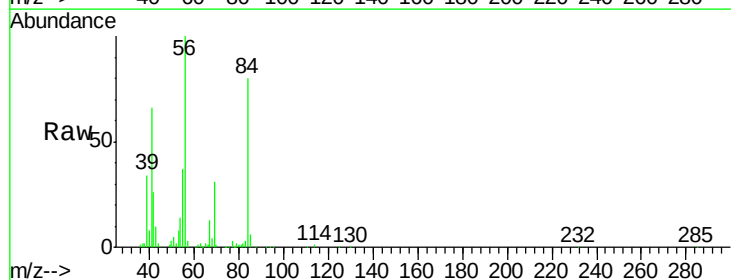
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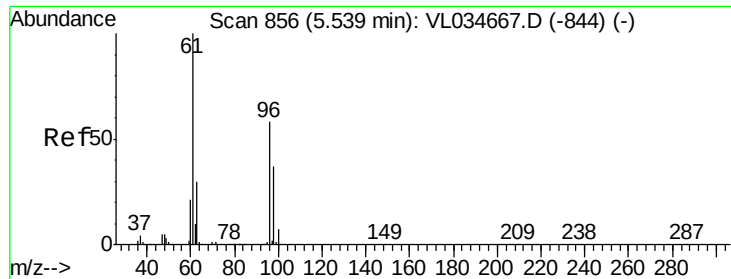
MMDadoda
2/26/2020 12:38:41 PM



#30
Cyclohexane
Concen: 2.309 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	84	Resp	201770
Ion Ratio	Lower	Upper	
84	100		
56	164.4	113.4	170.2
41	88.2	69.5	104.3





#31

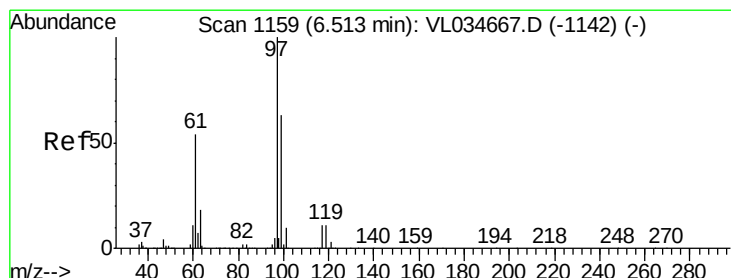
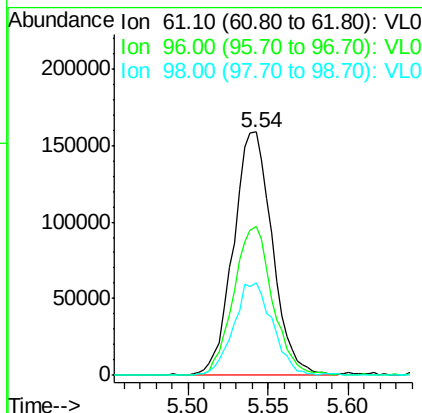
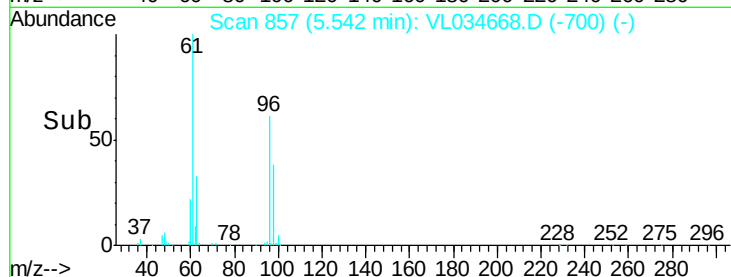
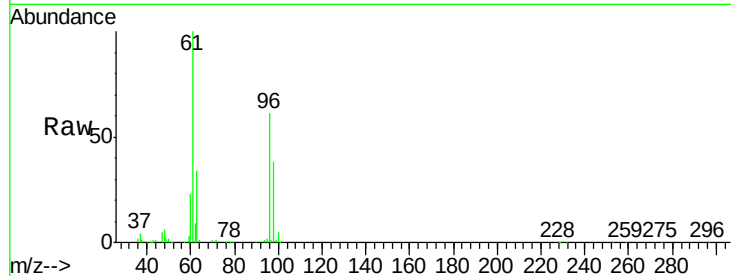
cis-1,2-Dichloroethene
 Concen: 2.140 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100	262274		
96	61.2		46.6	69.8
98	38.2		29.3	43.9

Manual Integrations
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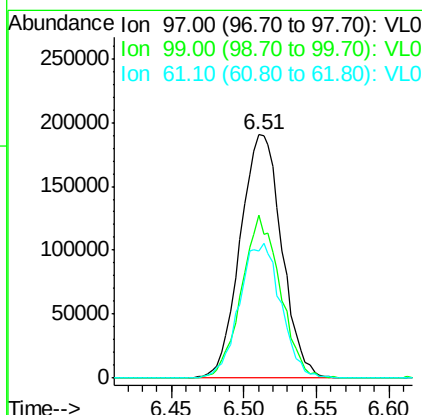
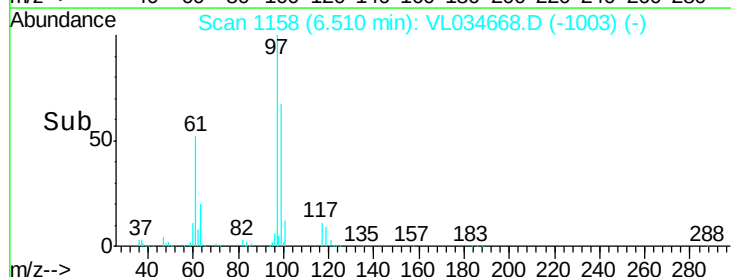
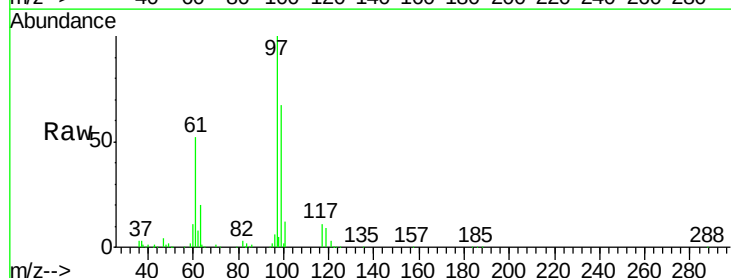
MMDadoda
 2/26/2020 12:38:41 PM

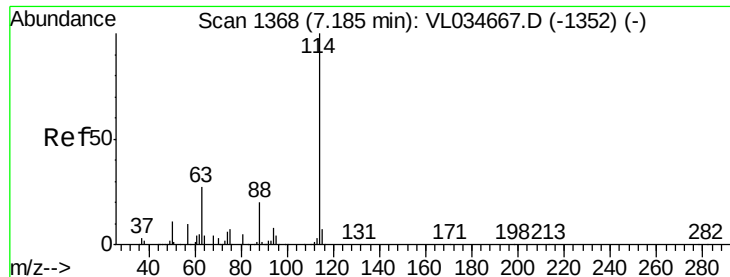


#32

1,1,1-Trichloroethane
 Concen: 1.697 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. -0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	380049		
99	62.1		52.2	78.2
61	55.4		44.5	66.7





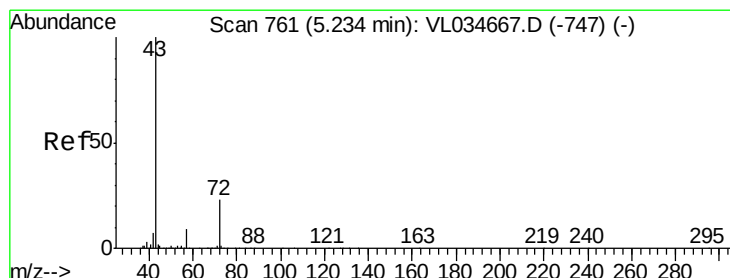
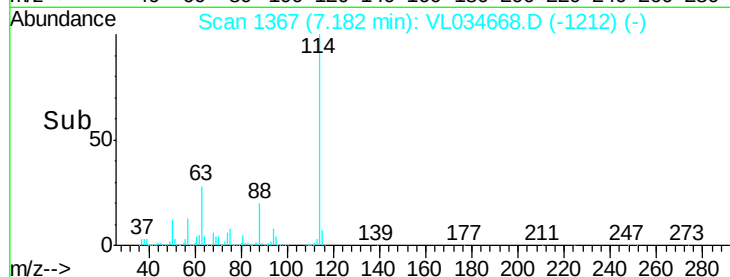
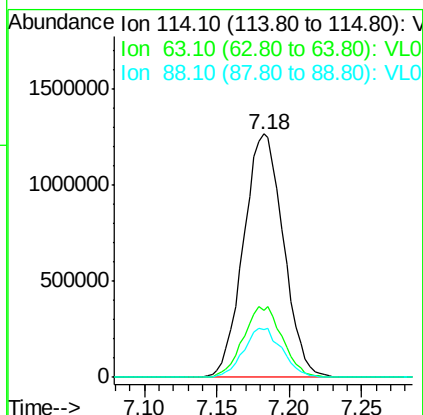
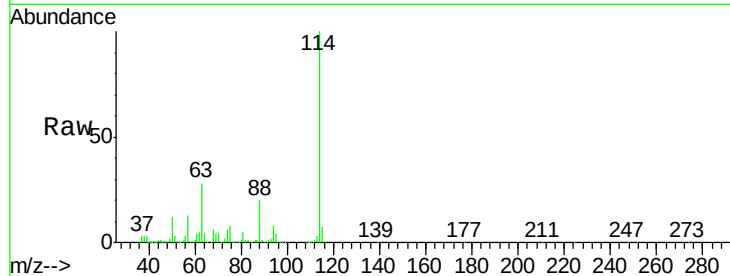
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:114 Resp: 2422560
 Ion Ratio Lower Upper
 114 100
 63 28.8 23.1 34.7
 88 19.6 15.6 23.4

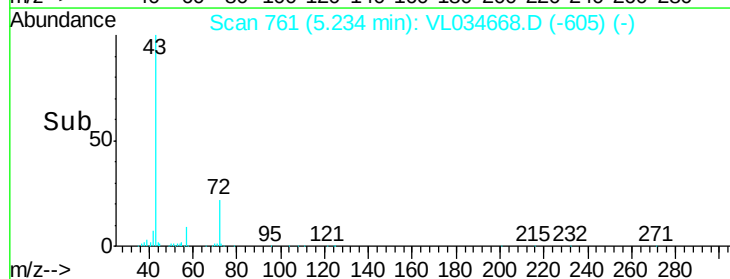
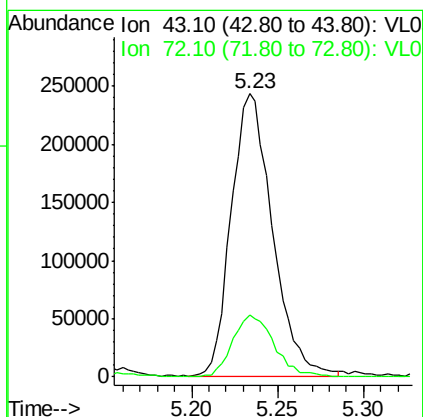
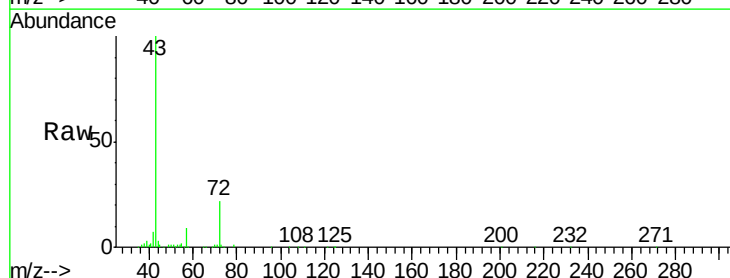
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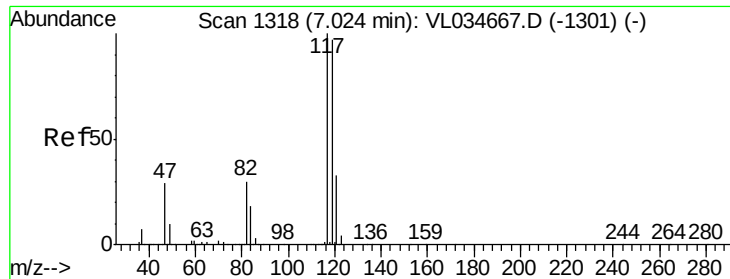
MMDadoda
 2/26/2020 12:38:41 PM



#34
 2-Butanone
 Concen: 2.301 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion: 43 Resp: 404829
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.8 26.8





#35

Carbon Tetrachloride

Concen: 1.694 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

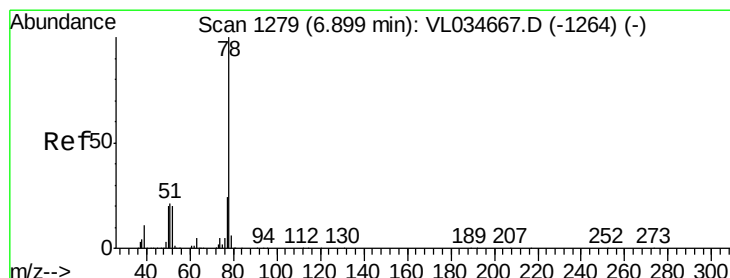
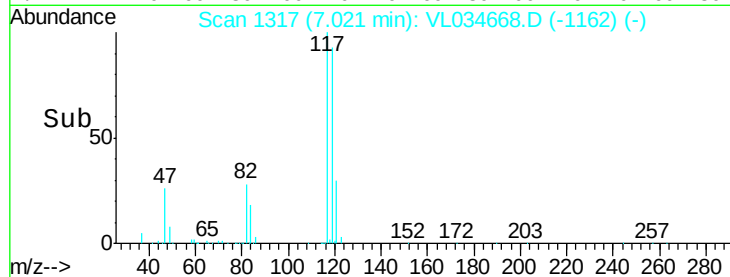
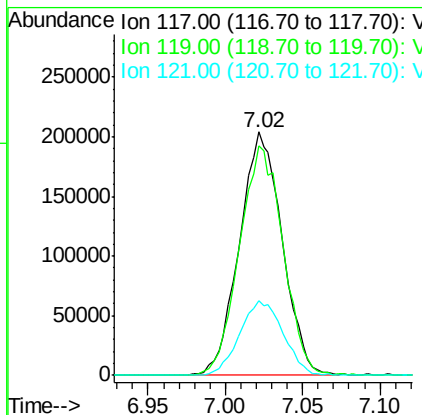
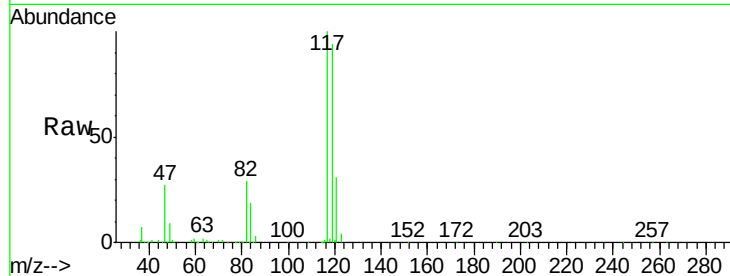
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	392337
Ion Ratio	Lower	Upper	
117	100		
119	94.1	77.2	115.8
121	30.5	26.1	39.1

Manual Integrations
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2/26/2020 12:38:41 PM



#36

Benzene

Concen: 2.379 ppbv

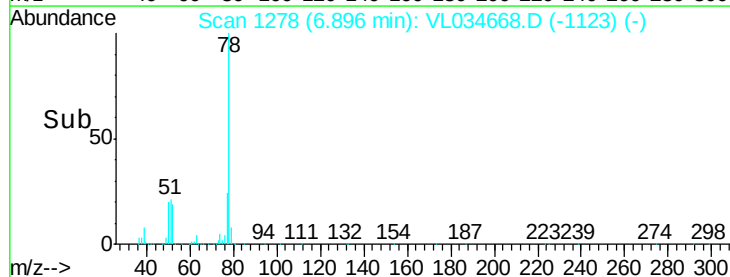
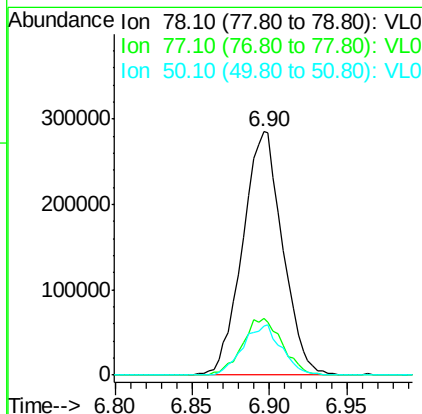
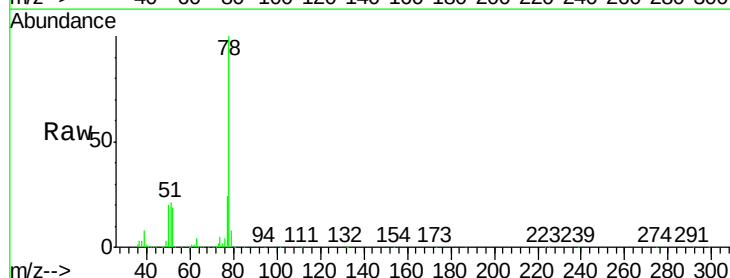
RT: 6.90 min Scan# 1278

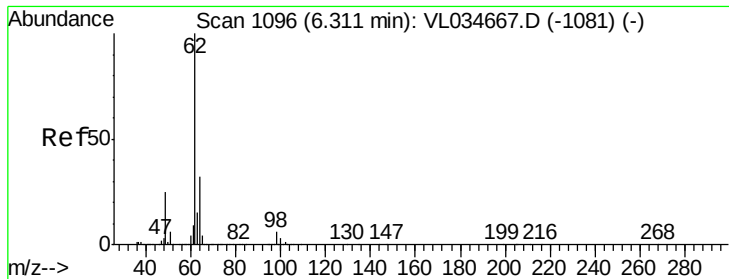
Delta R.T. -0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion:	78	Resp:	512618
Ion Ratio	Lower	Upper	
78	100		
77	23.6	19.2	28.8
50	19.9	15.9	23.9





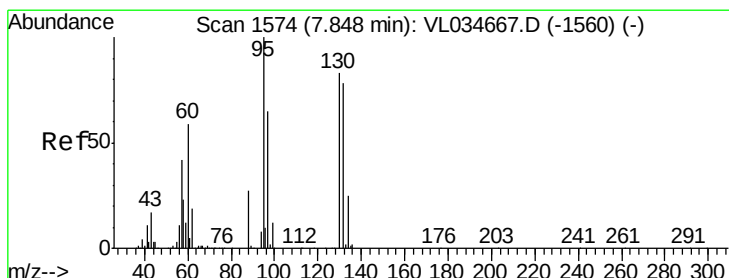
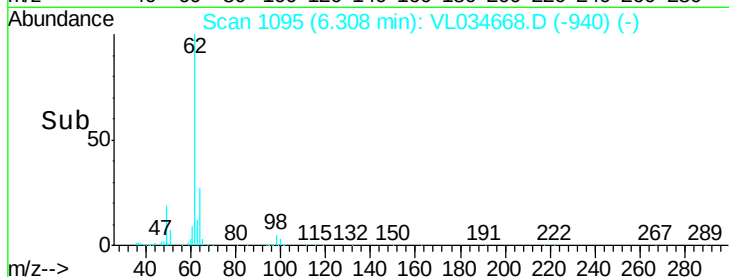
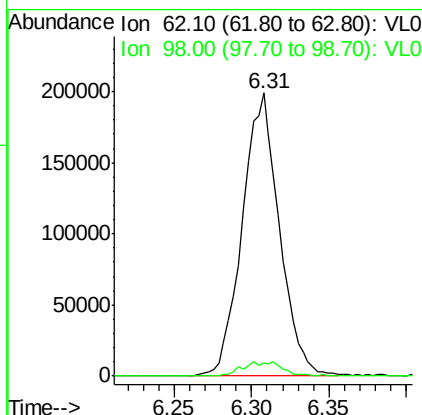
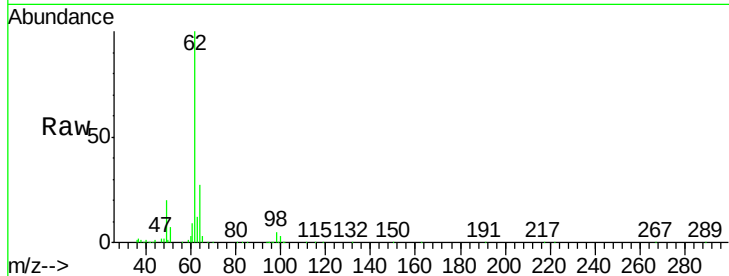
#37
 1,2-Dichloroethane
 Concen: 1.850 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	332451		
98	5.5	4.5	6.7	

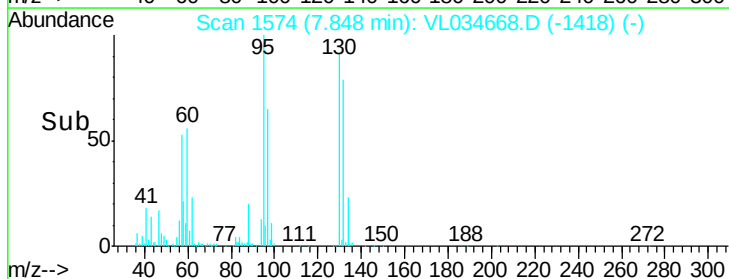
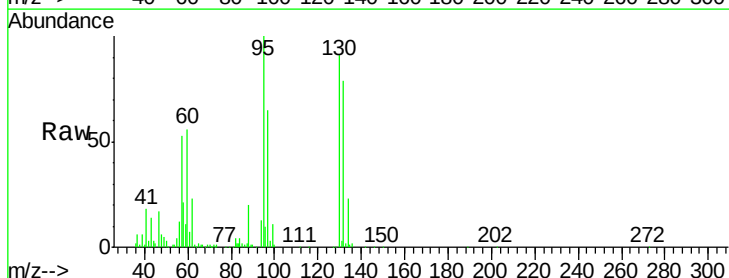
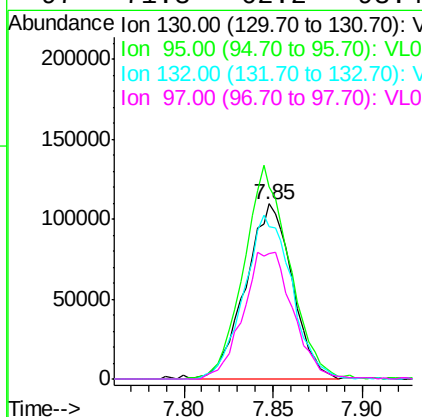
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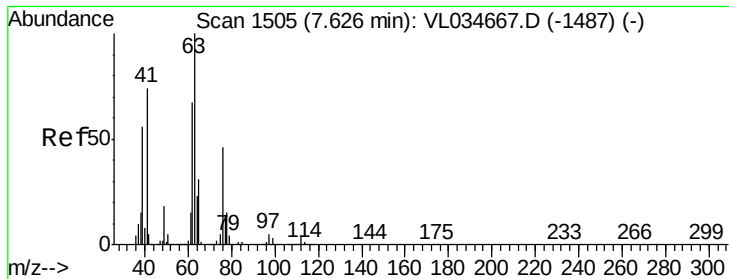
MMDadoda
 2/26/2020 12:38:41 PM



#38
 Trichloroethene
 Concen: 2.213 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	201004		
95	108.9	96.1	144.1	
132	88.6	74.6	112.0	
97	71.3	62.2	93.4	





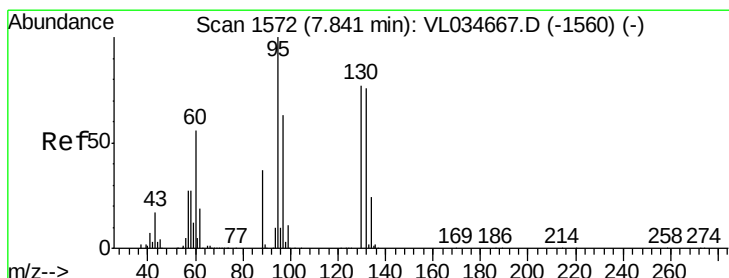
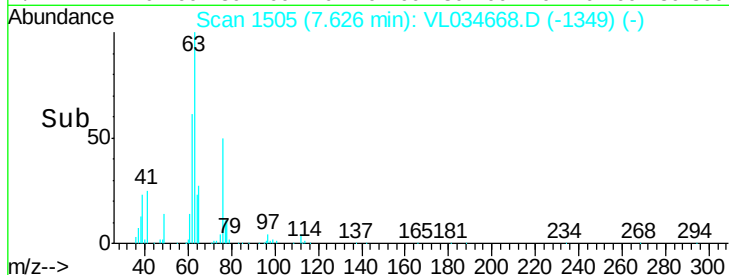
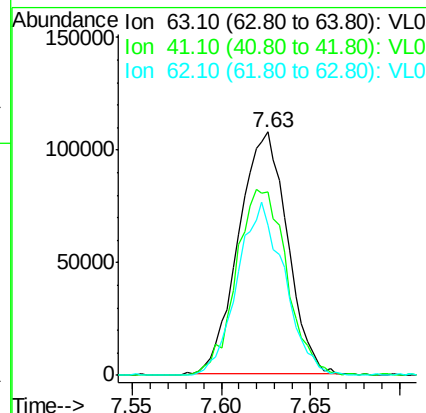
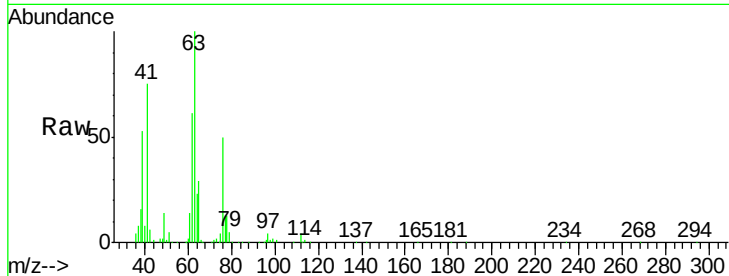
#39
 1,2-Dichloropropane
 Concen: 2.292 ppbv
 RT: 7.63 min Scan# 1505
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.4	58.9	88.3
62	61.7	53.8	80.8

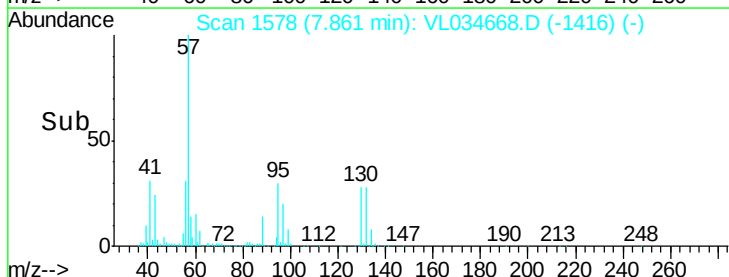
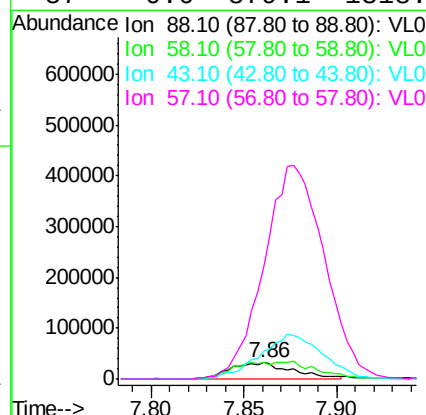
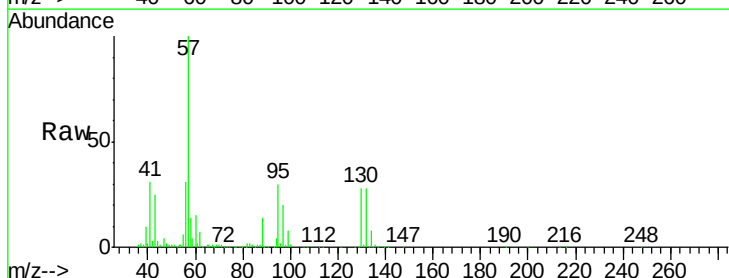
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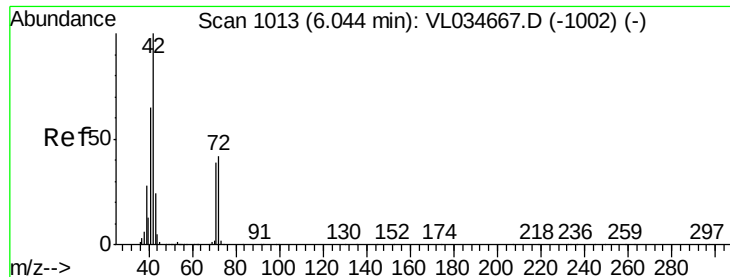
MMDadoda
 2/26/2020 12:38:41 PM



#40
 1,4-Dioxane
 Concen: 2.174 ppbv m
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.02 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	108.6	163.0#
43	0.0	208.1	312.1#
57	0.0	879.1	1318.7#





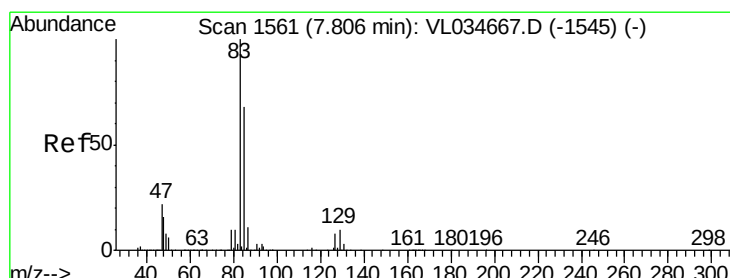
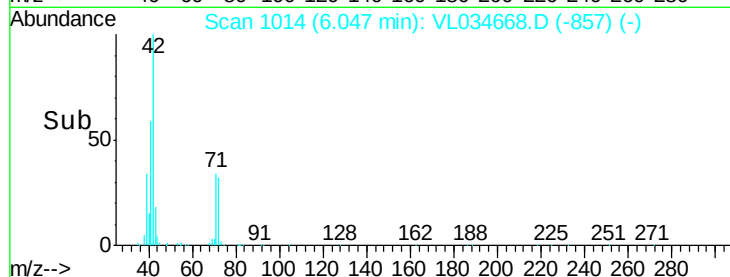
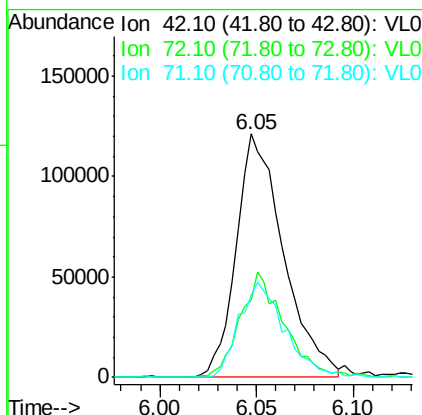
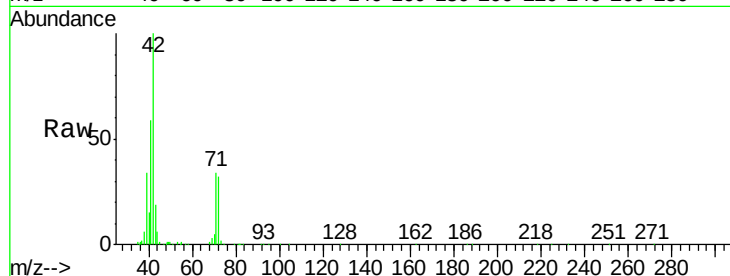
#41
Tetrahydrofuran
Concen: 2.243 ppbv
RT: 6.05 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.9	31.5	47.3
71	38.5	30.3	45.5

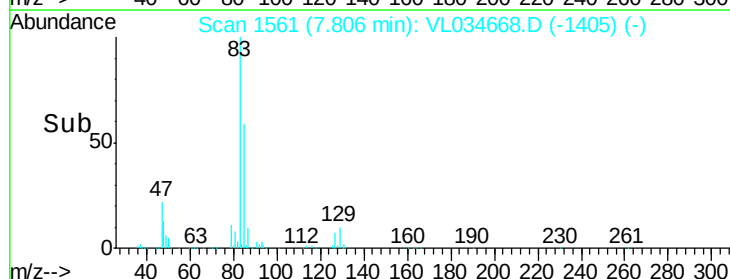
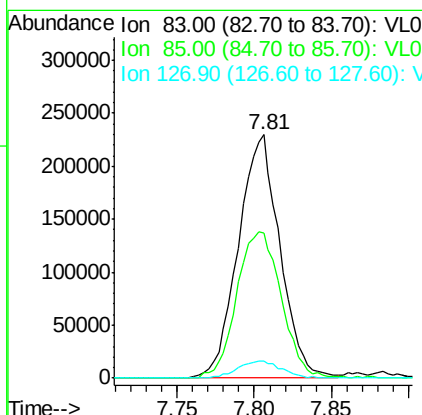
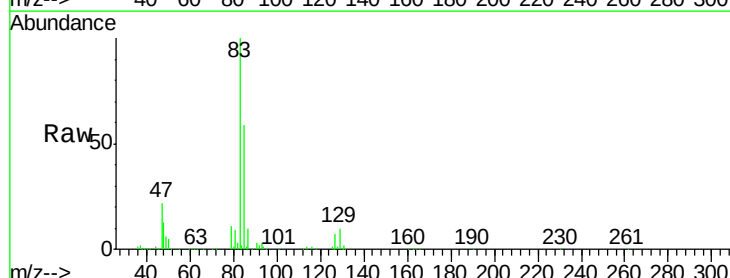
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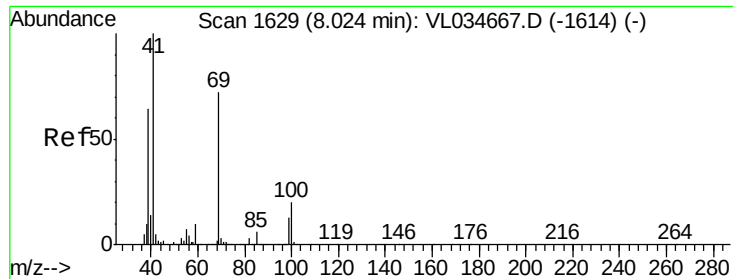
MMDadoda
2/26/2020 12:38:41 PM



#42
Bromodichloromethane
Concen: 1.933 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.2	54.2	81.4
127	7.1	6.2	9.4





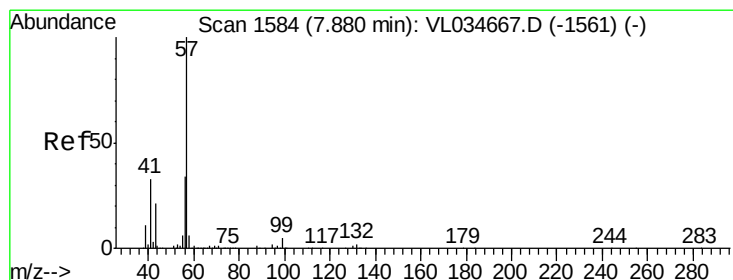
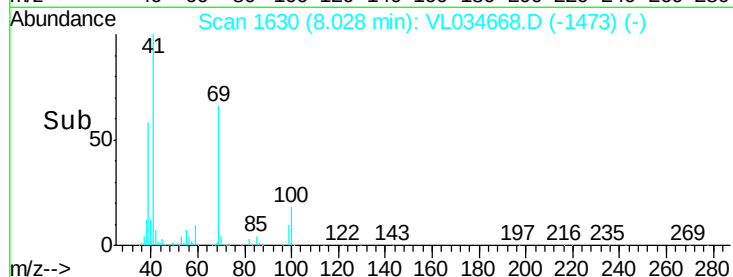
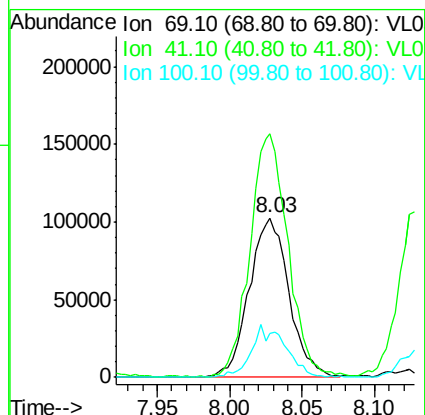
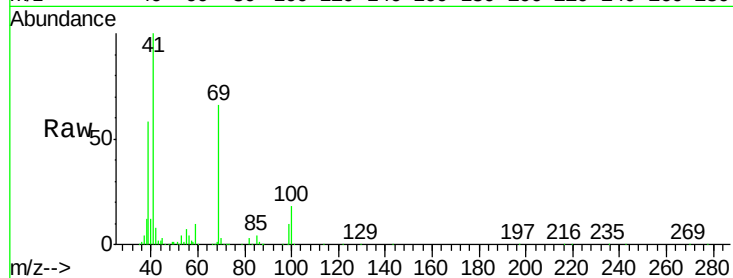
#43
Methyl Methacrylate
Concen: 2.258 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	146.8	116.4	174.6	
100	28.7	24.3	36.5	

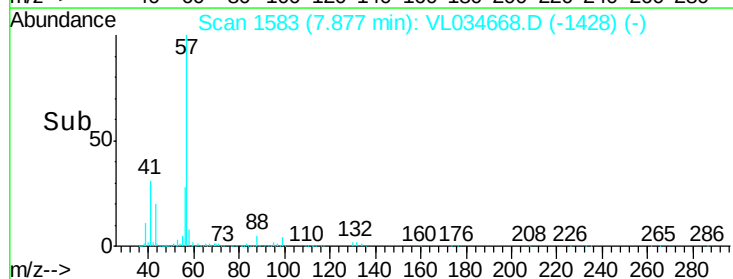
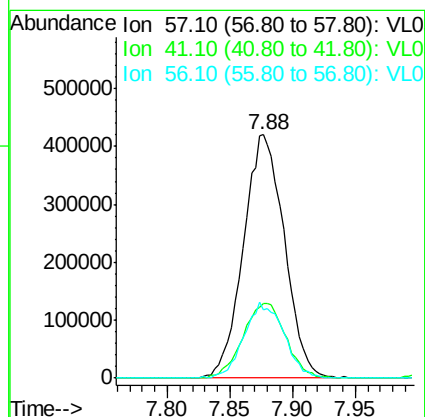
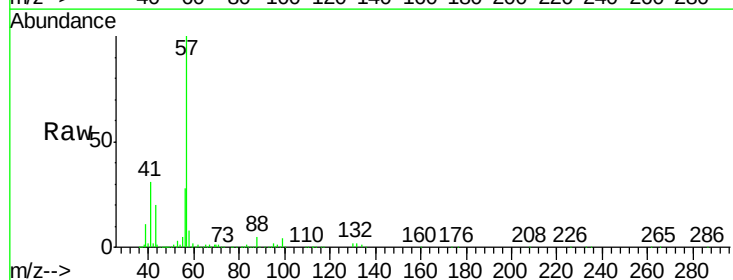
Manual Integrations
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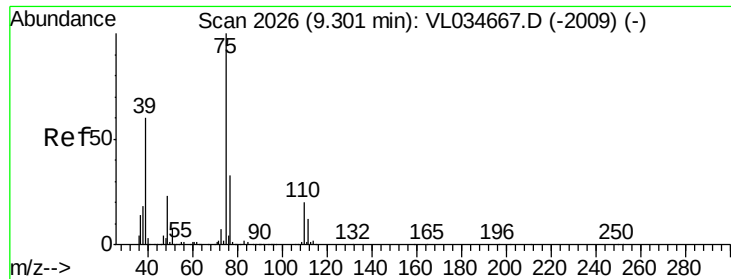
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2/26/2020 12:38:41 PM



#44
2,2,4-Trimethylpentane
Concen: 2.441 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.2	26.1	39.1	
56	30.2	25.4	38.2	





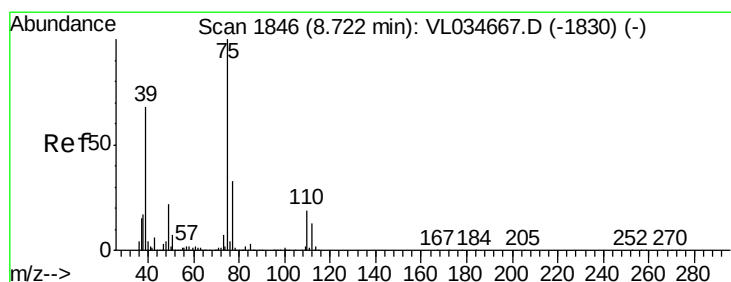
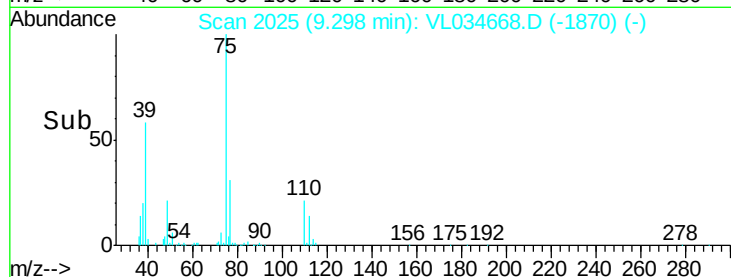
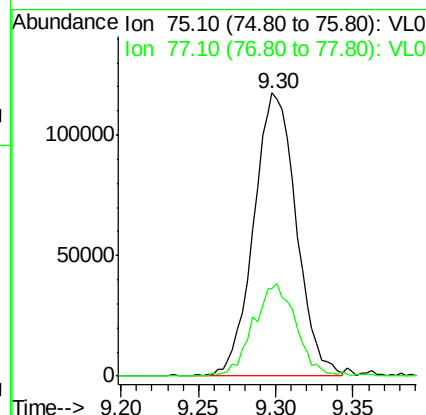
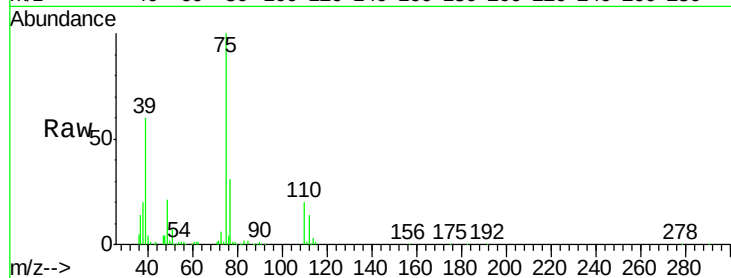
#45
t-1,3-Dichloropropene
Concen: 1.985 ppbv
RT: 9.30 min Scan# 2025
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.3	39.5

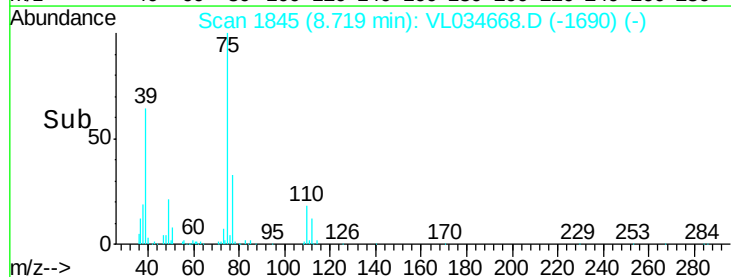
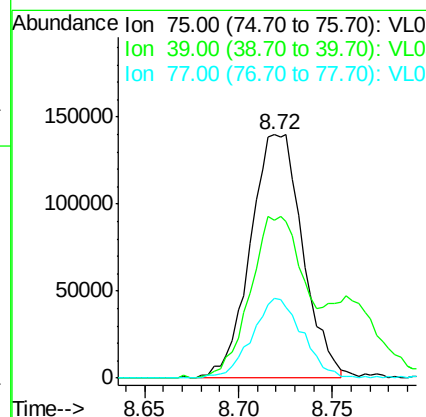
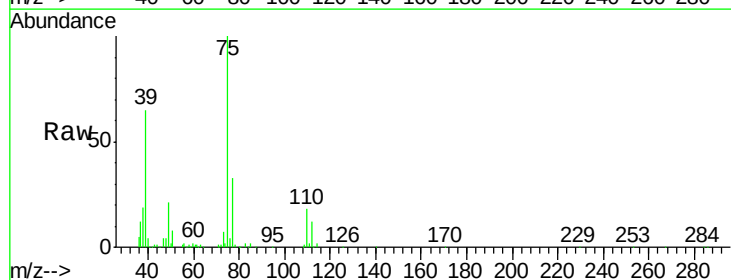
Manual Integrations
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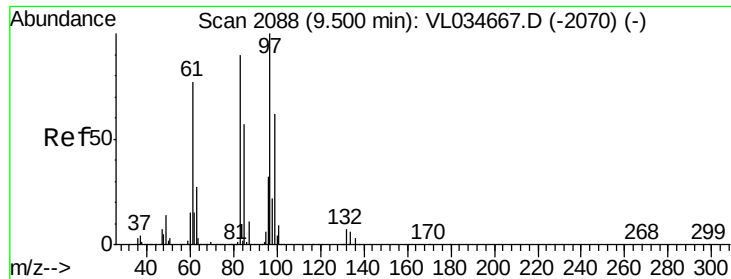
MMDadoda
2/26/2020 12:38:41 PM



#46
cis-1,3-Dichloropropene
Concen: 2.100 ppbv m
RT: 8.72 min Scan# 1845
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
75	100		
39	64.7	54.7	82.1
77	32.7	26.6	40.0





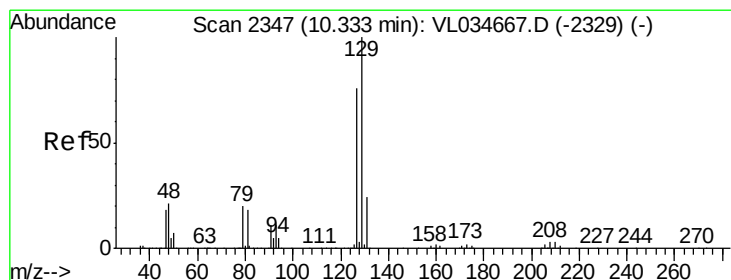
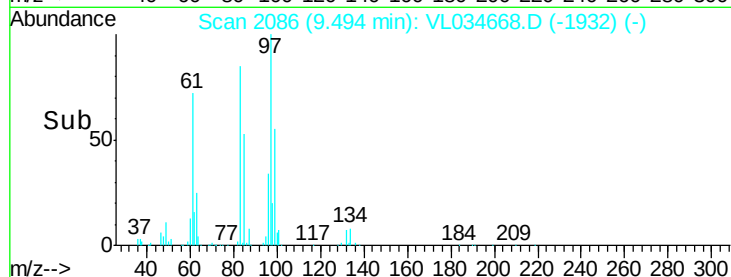
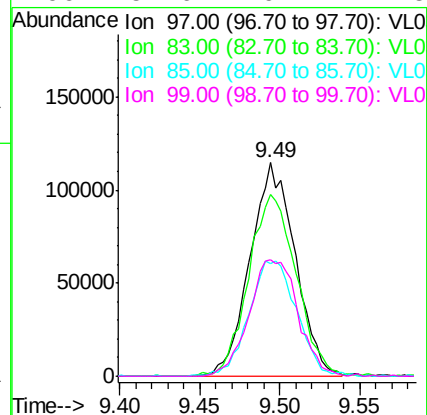
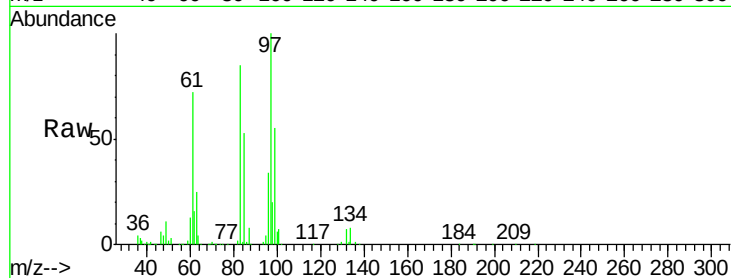
#47
1,1,2-Trichloroethane
Concen: 2.284 ppbv
RT: 9.49 min Scan# 2086
Delta R.T. -0.01 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.0	72.3	108.5
85	52.4	45.8	68.8
99	54.6	49.7	74.5

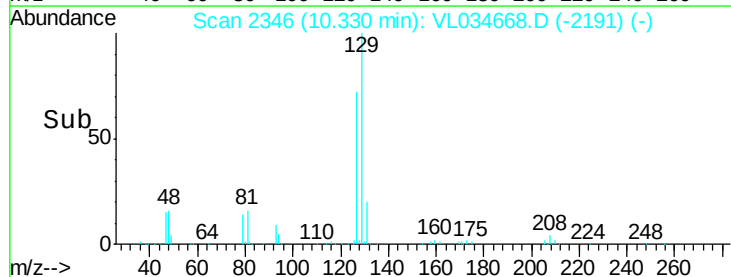
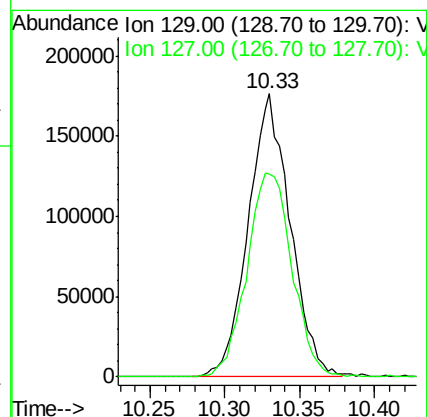
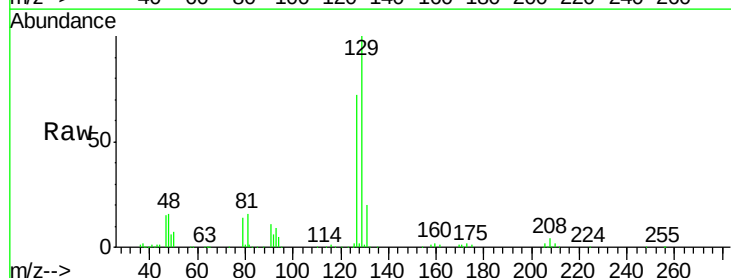
Manual Integrations
APPROVED

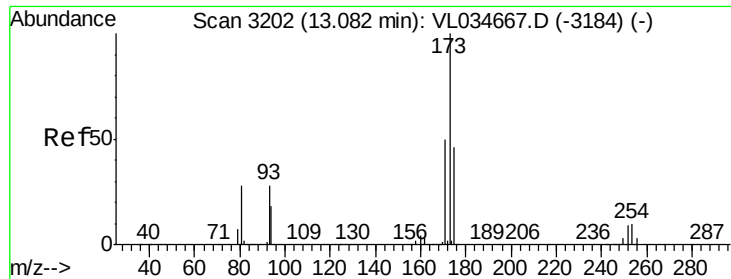
MMDadoda
2/26/2020 12:38:41 PM



#48
Dibromochloromethane
Concen: 1.938 ppbv
RT: 10.33 min Scan# 2346
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.3





#49

Bromoform

Concen: 1.961 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. -0.01 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

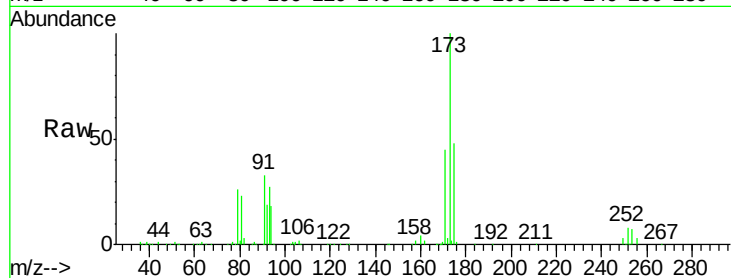
ClientSampleId :

VSTDIC002

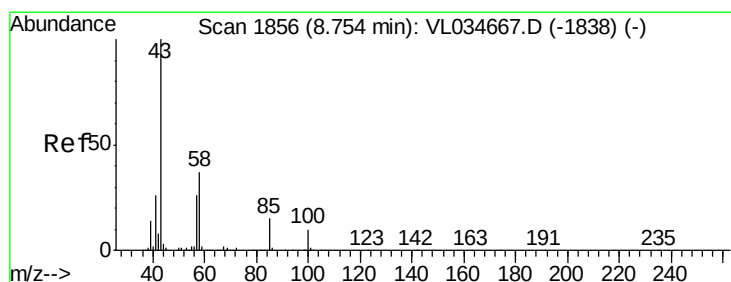
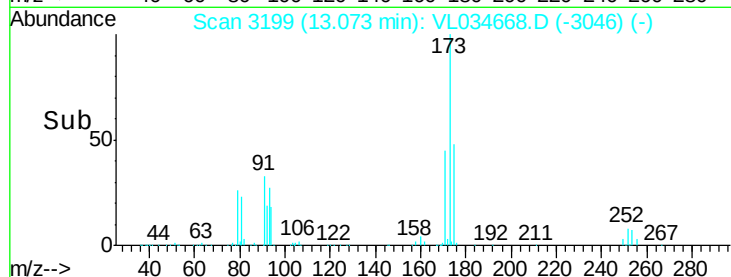
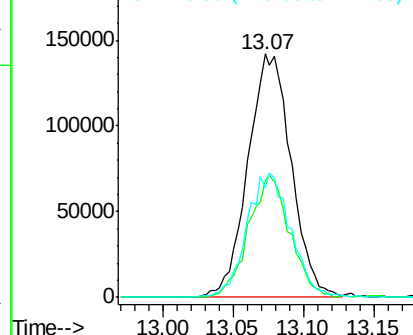
Tot Ion:	173	Resp:	305210
Ion Ratio	Lower	Upper	
173	100		
175	48.1	39.0	58.4
171	51.8	41.0	61.6

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: 2.217 ppbv

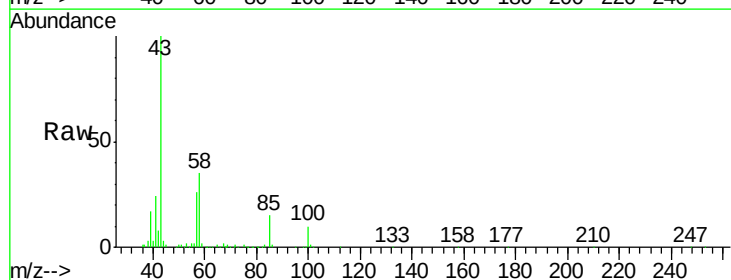
RT: 8.76 min Scan# 1858

Delta R.T. 0.01 min

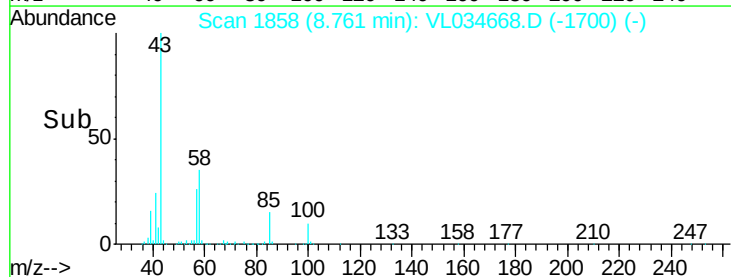
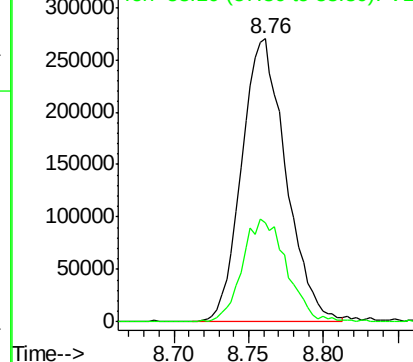
Lab File: VL034668.D

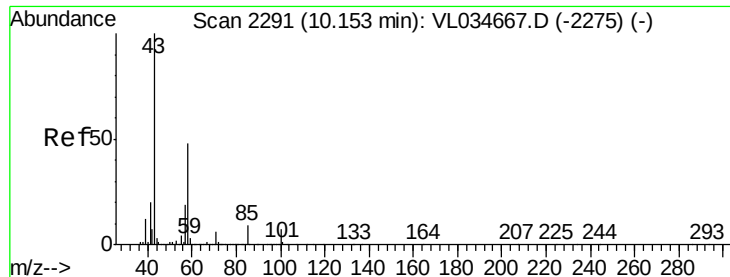
Acq: 25 Feb 2020 11:58

Tgt Ion:	43	Resp:	556109
Ion Ratio	Lower	Upper	
43	100		
58	36.6	29.5	44.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 2.285 ppbv

RT: 10.16 min Scan# 2293

Delta R.T. 0.01 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

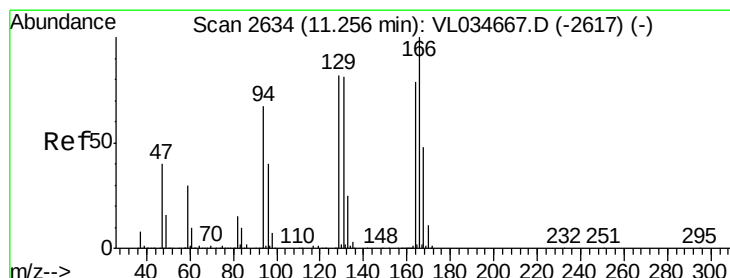
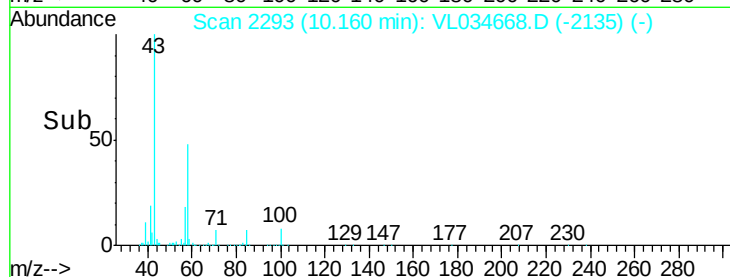
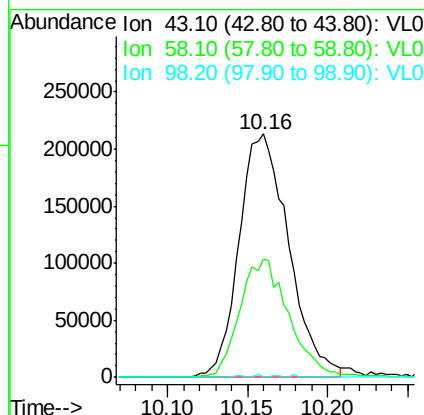
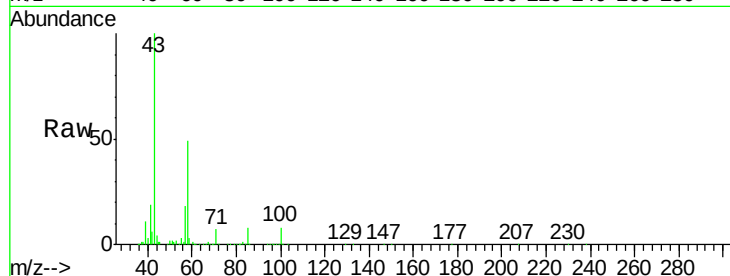
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	451166
Ion Ratio	Lower	Upper	
43	100		
58	49.0	38.8	58.2
98	0.8	0.3	0.5#

Manual Integrations
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#52

Tetrachloroethene

Concen: 2.026 ppbv

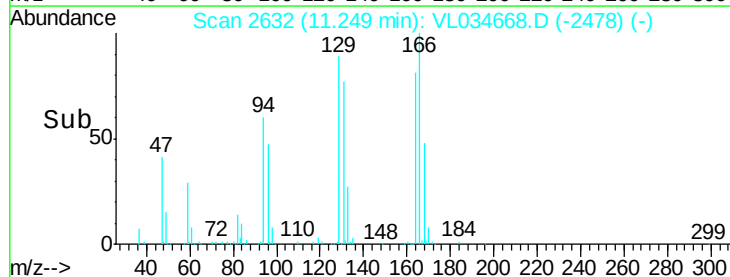
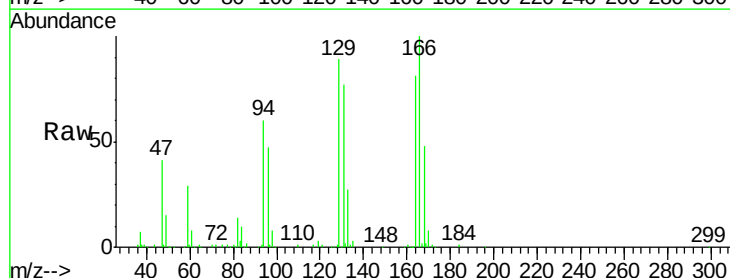
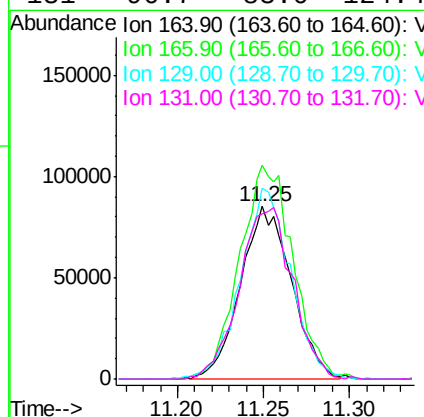
RT: 11.25 min Scan# 2632

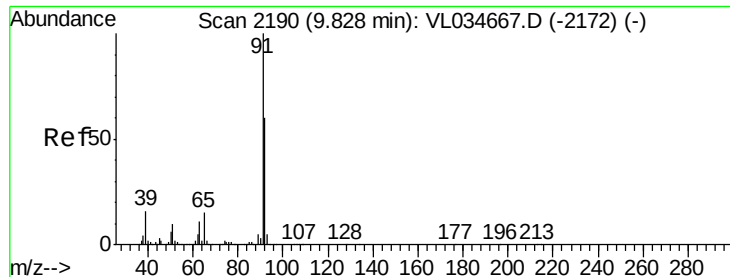
Delta R.T. -0.01 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion:	164	Resp:	175303
Ion Ratio	Lower	Upper	
164	100		
166	122.6	101.4	152.2
129	109.3	83.5	125.3
131	96.7	83.0	124.4





#53

Toluene

Concen: 2.392 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 566212

Ion Ratio Lower Upper

91 100

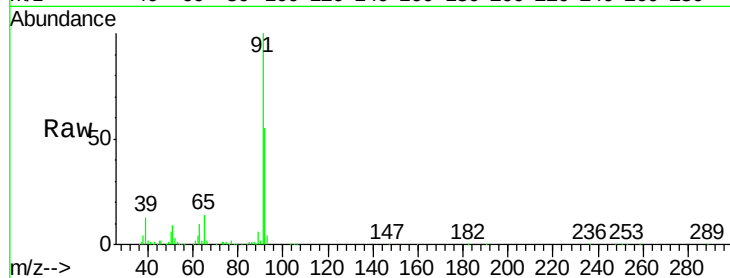
92 60.7 48.2 72.2

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.83

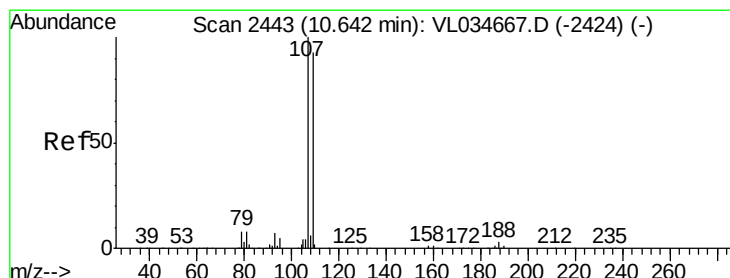
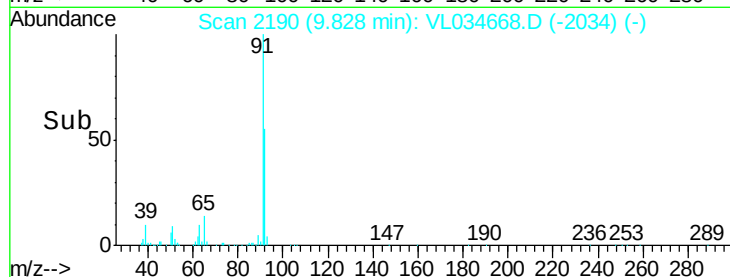
300000

200000

100000

0

Time-->



#54

1,2-Dibromoethane

Concen: 2.125 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL034668.D

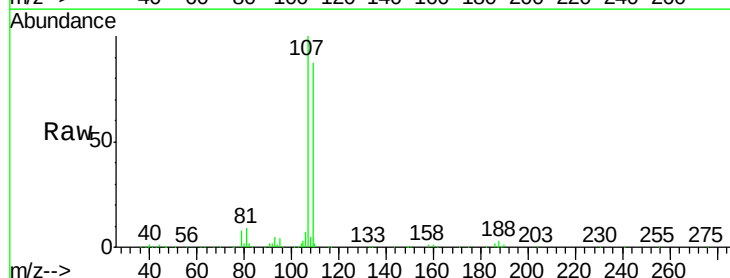
Acq: 25 Feb 2020 11:58

Tgt Ion: 107 Resp: 308065

Ion Ratio Lower Upper

107 100

109 86.5 74.2 111.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.64

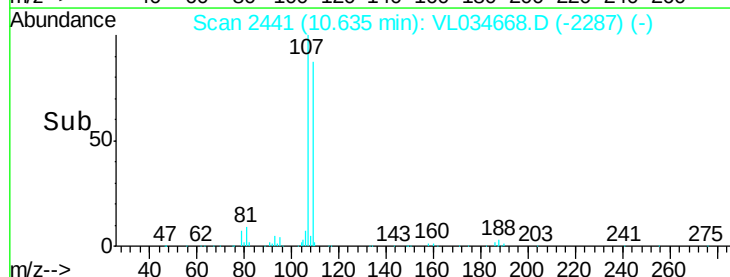
150000

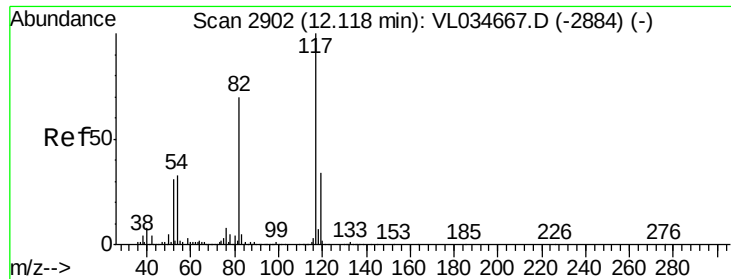
100000

50000

0

Time-->





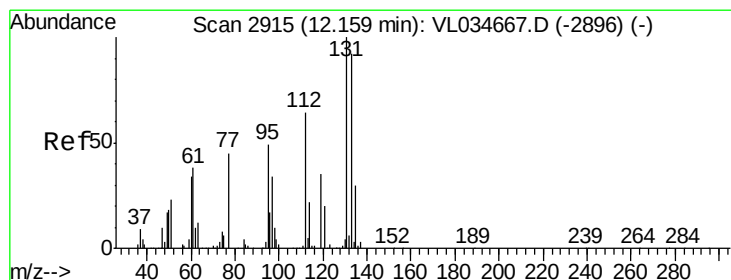
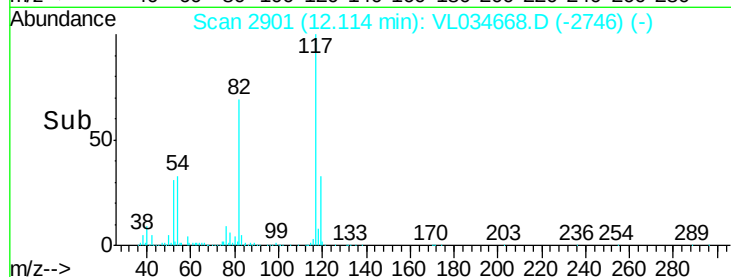
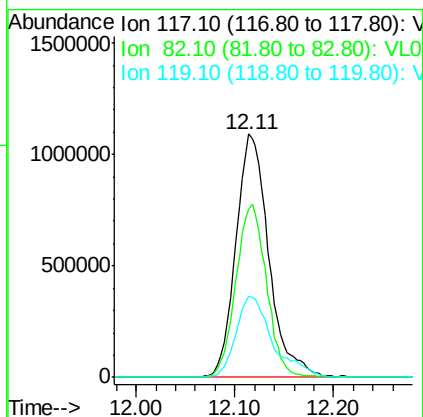
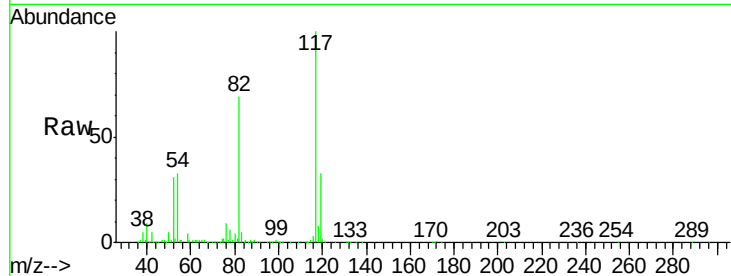
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.3	54.2	81.4
119	37.1	44.2	66.2#

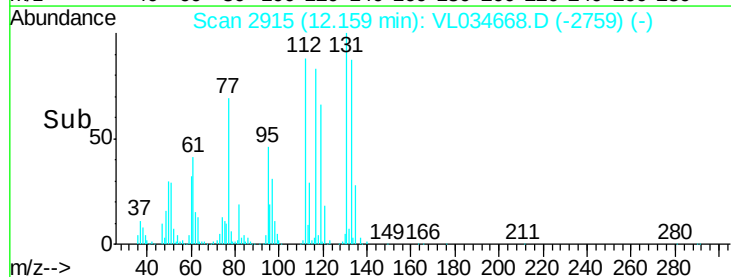
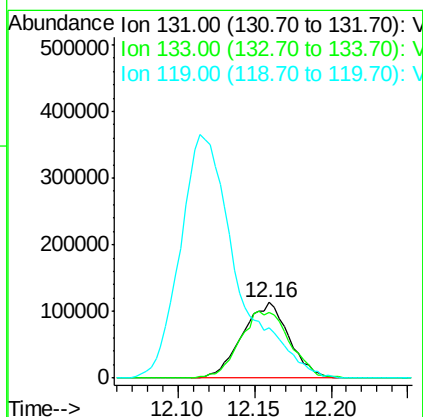
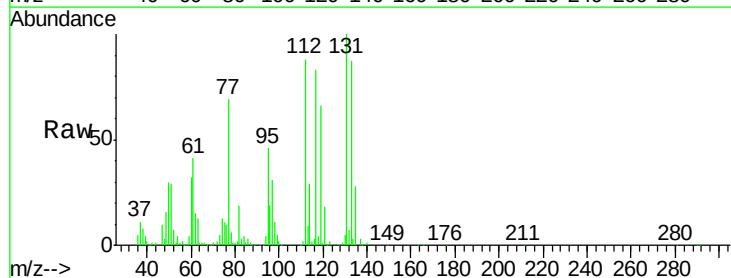
Manual Integrations
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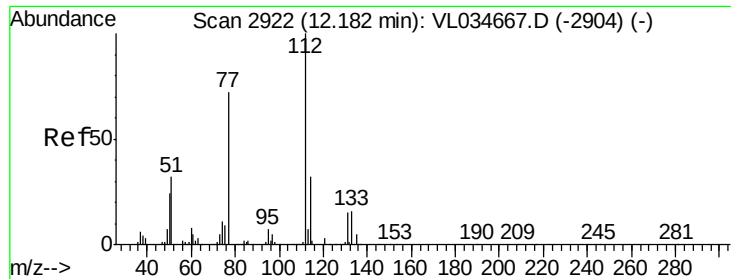
MMDadoda
2/26/2020 12:38:41 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.918 ppbv m
RT: 12.16 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.0	115.4#
119	0.0	114.8	172.2#





#57

Chlorobenzene

Concen: 2.222 ppbv

RT: 12.18 min Scan# 2922

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

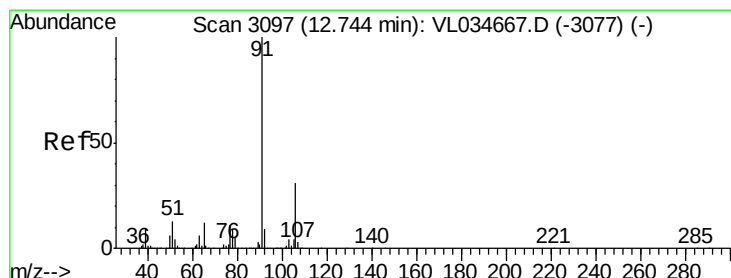
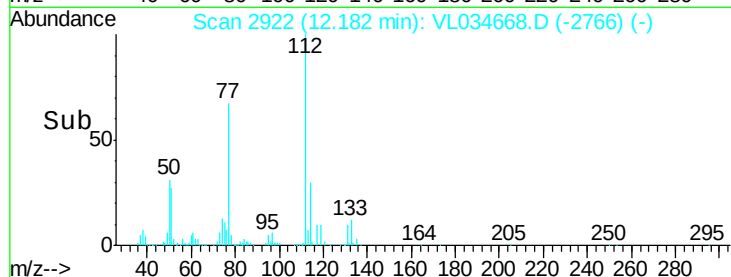
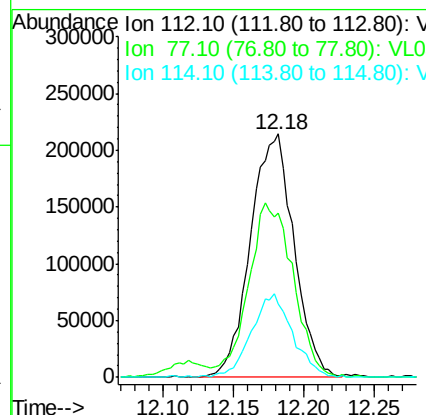
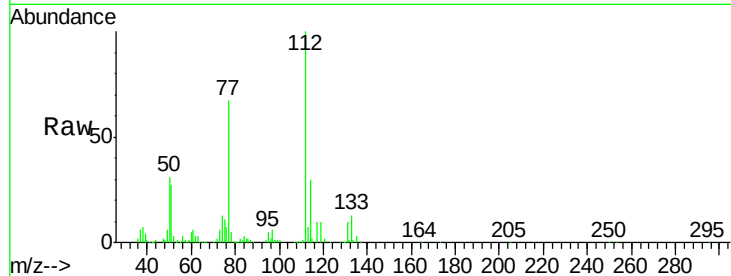
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	462650
Ion Ratio		Lower	Upper
112	100		
77	66.2	58.9	88.3
114	29.8	29.1	35.5

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#58

Ethyl Benzene

Concen: 2.345 ppbv

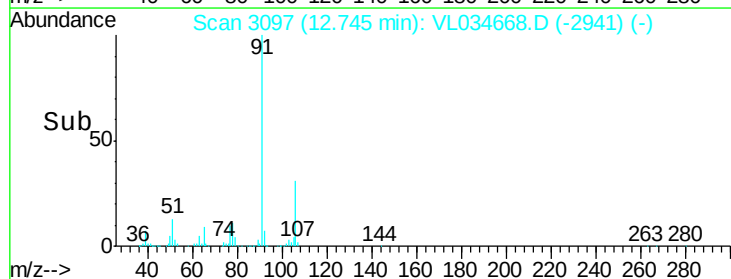
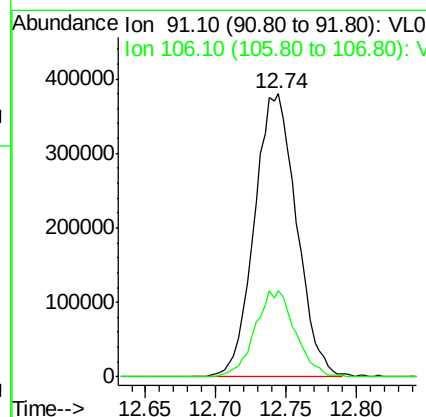
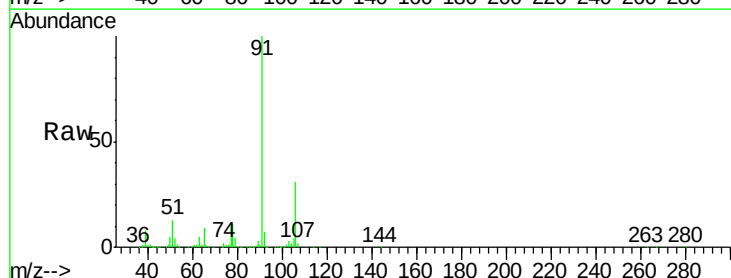
RT: 12.74 min Scan# 3097

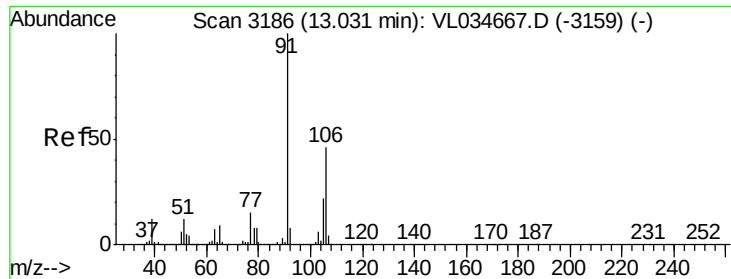
Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion:	91	Resp:	793773
Ion Ratio		Lower	Upper
91	100		
106	30.6	24.6	36.8





#59

m/p-Xylene

Concen: 4.488 ppbv m

RT: 13.02 min Scan# 3182

Delta R.T. -0.01 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 1343257

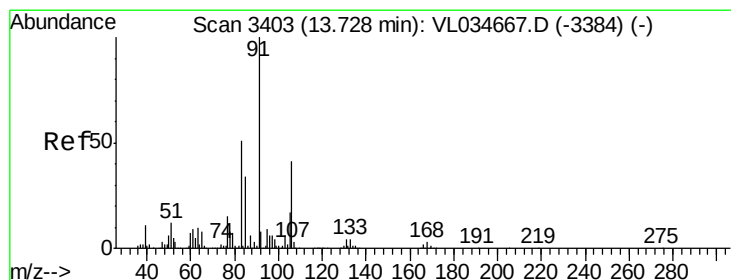
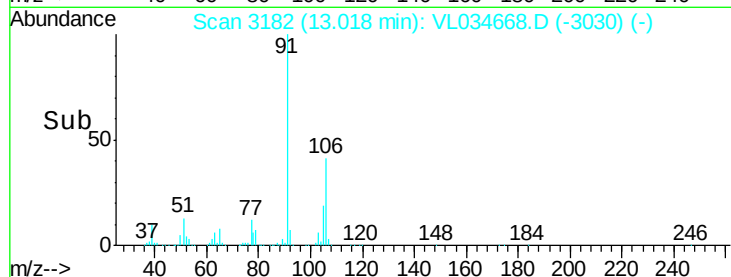
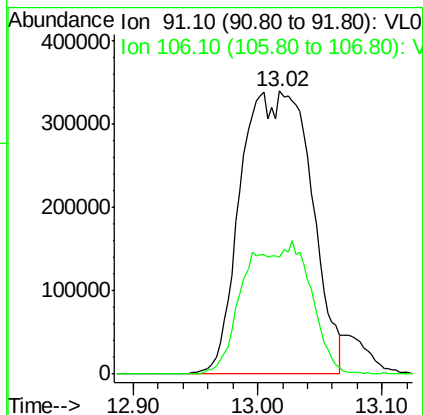
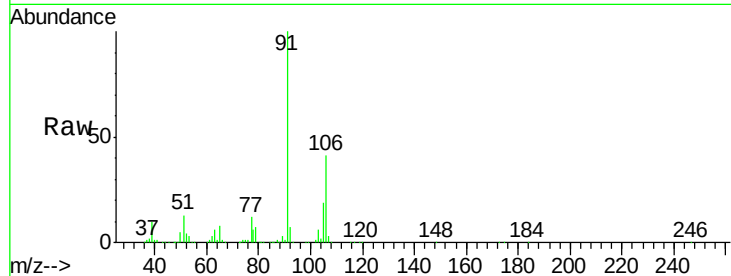
Ion Ratio Lower Upper

91 100

106 44.0 35.9 53.9

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#60

o-Xylene

Concen: 2.234 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VL034668.D

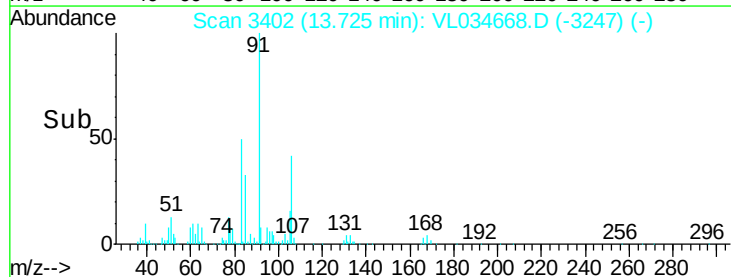
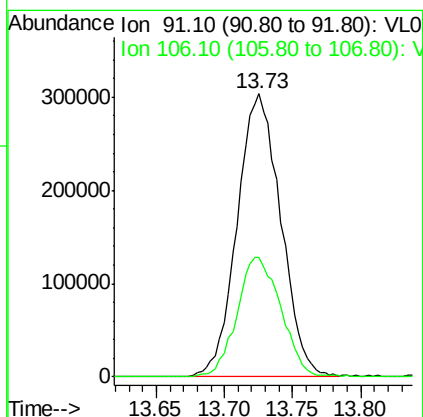
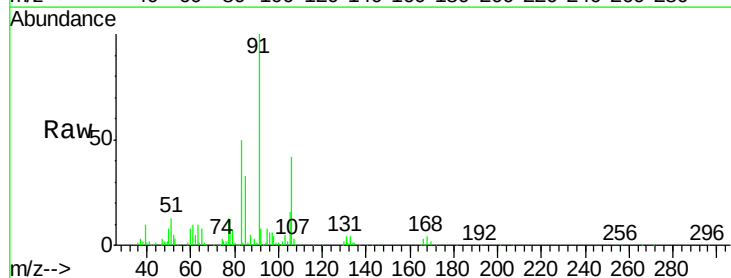
Acq: 25 Feb 2020 11:58

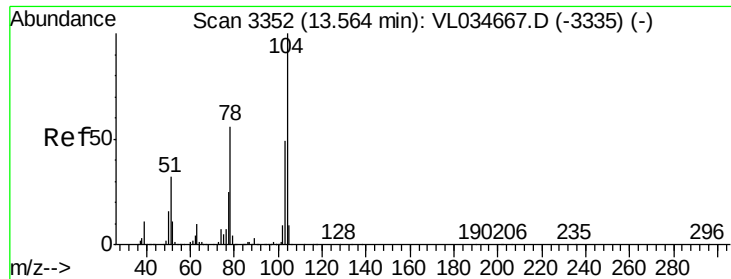
Tgt Ion: 91 Resp: 671561

Ion Ratio Lower Upper

91 100

106 42.8 22.1 66.1





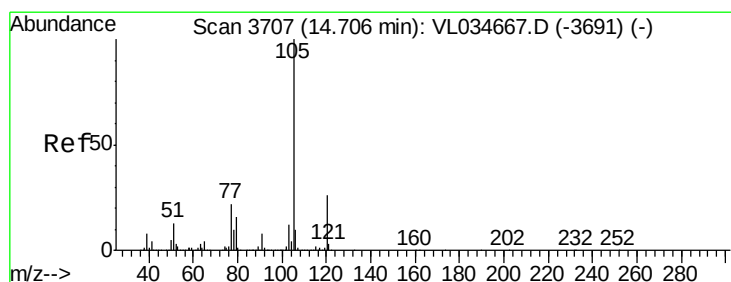
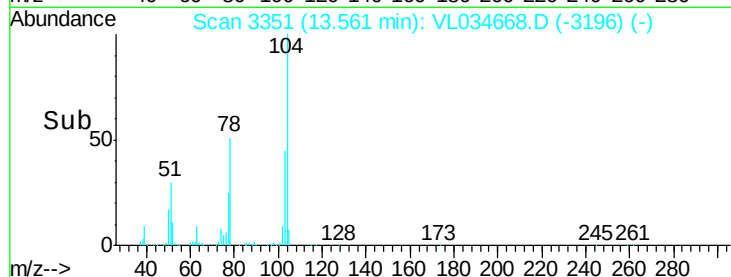
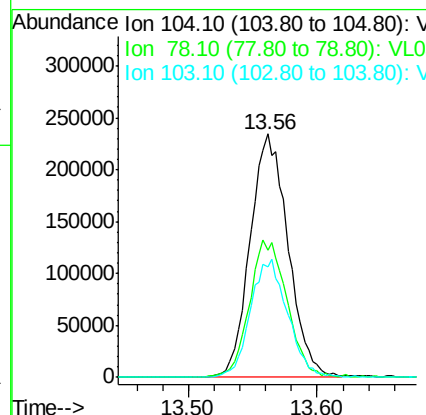
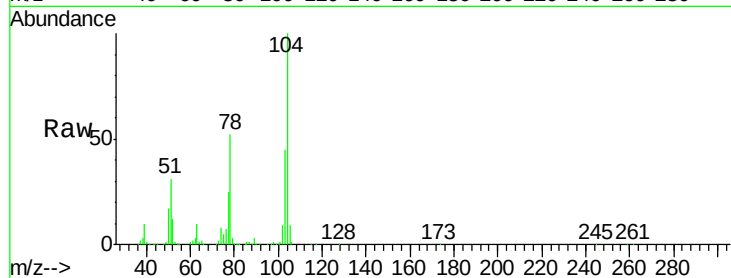
#61
Stvrene
Concen: 2.396 ppbv
RT: 13.56 min Scan# 3351
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.3	44.9	67.3
103	47.9	38.5	57.7

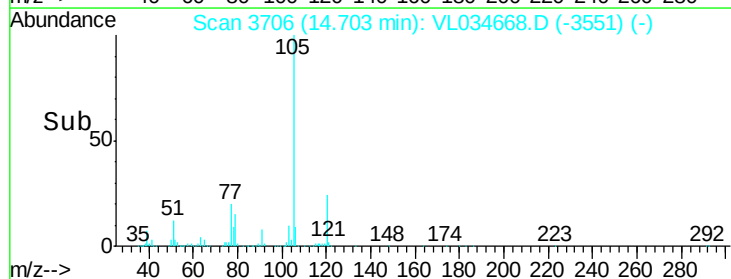
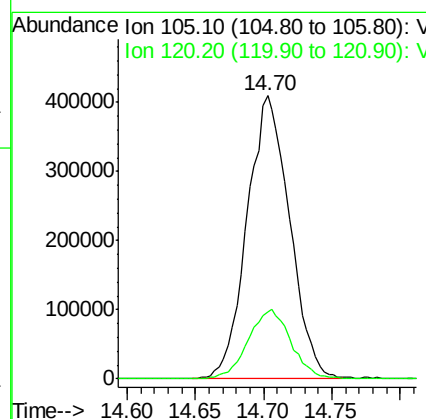
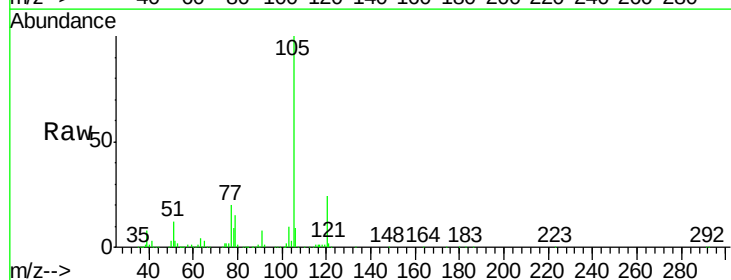
Manual Integrations
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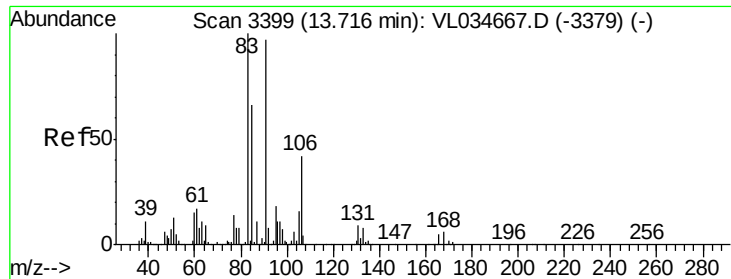
MMDadoda
2/26/2020 12:38:41 PM



#62
Isopropylbenzene
Concen: 2.273 ppbv
RT: 14.70 min Scan# 3706
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.6	20.7	31.1





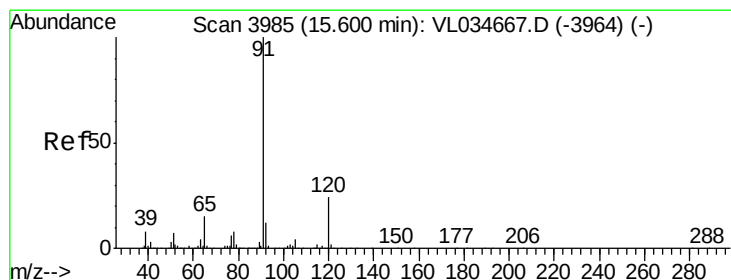
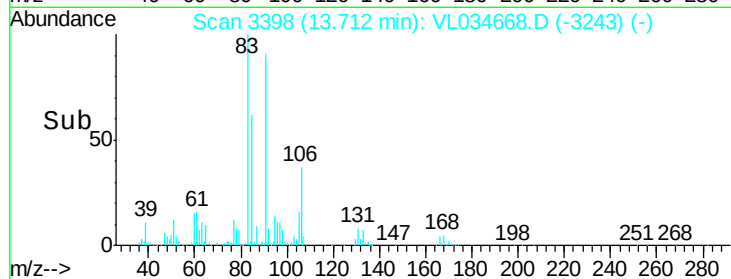
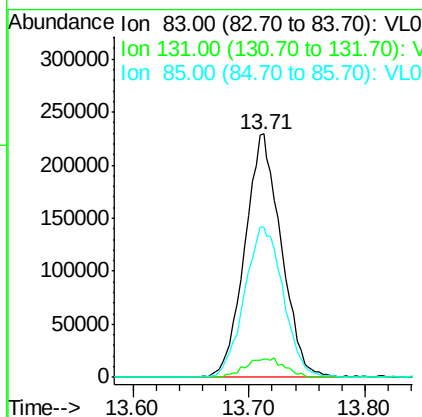
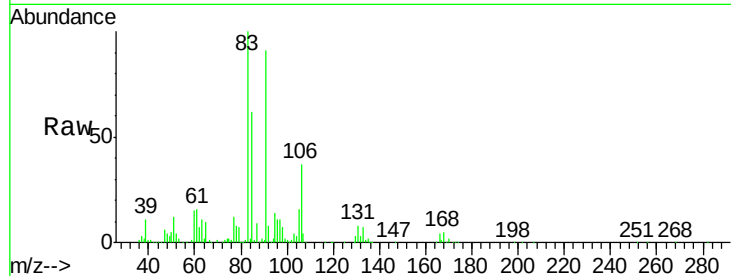
#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.155 ppbv
 RT: 13.71 min Scan# 3398
 Delta R.T. -0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
83	100	500966		
131	8.7		4.5	13.4
85	65.9		32.6	98.0

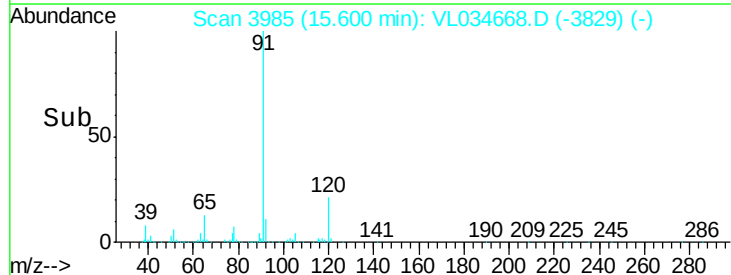
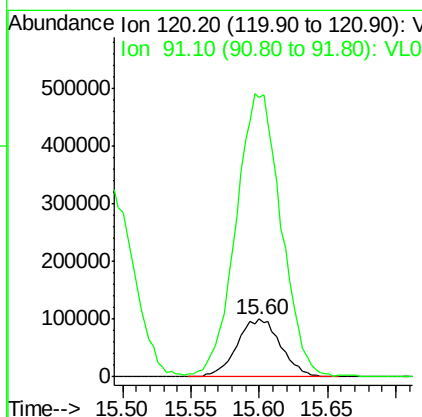
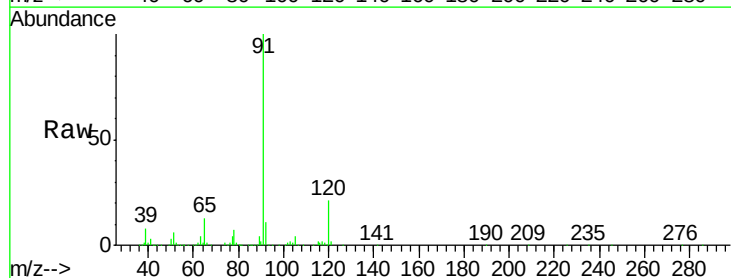
Manual Integrations
 APPROVED

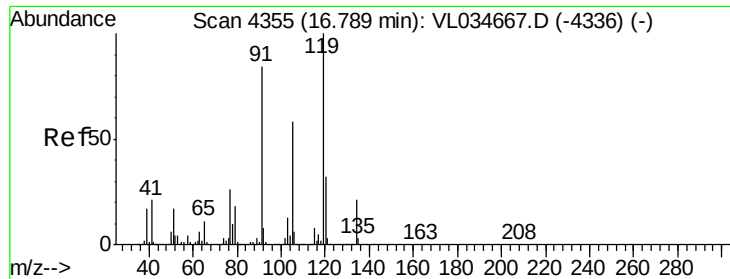
MMDadoda
 2/26/2020 12:38:41 PM



#64
 n-propylbenzene
 Concen: 2.224 ppbv
 RT: 15.60 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	222889		
91	508.7		375.9	563.9





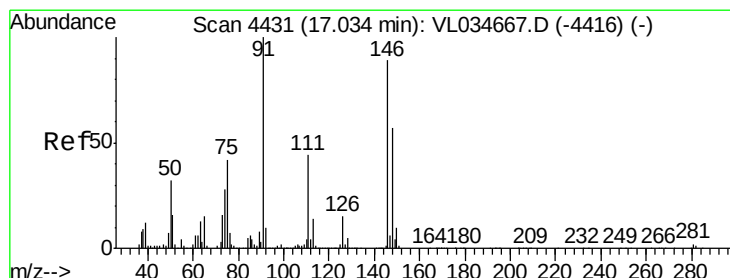
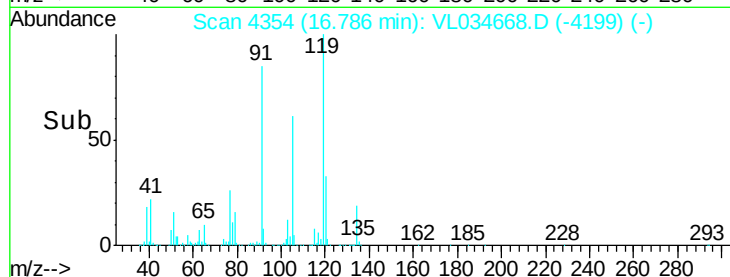
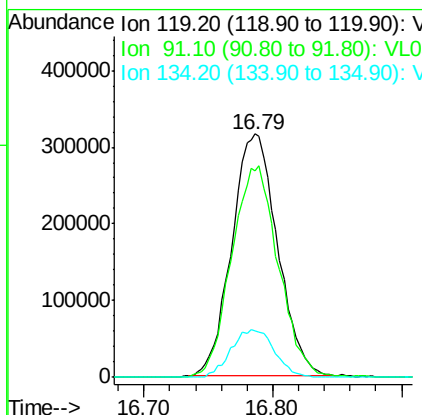
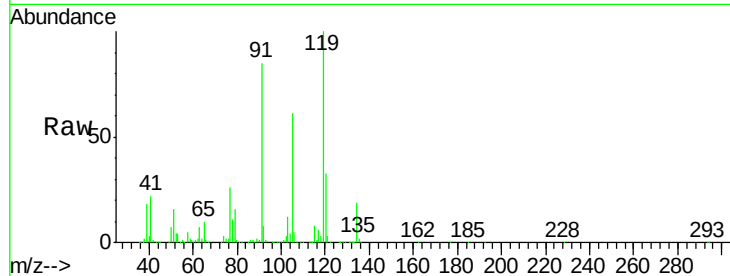
#65
tert-Butylbenzene
Concen: 2.202 ppbv
RT: 16.79 min Scan# 4354
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	90.0	68.9	103.3
134	18.9	15.6	23.4

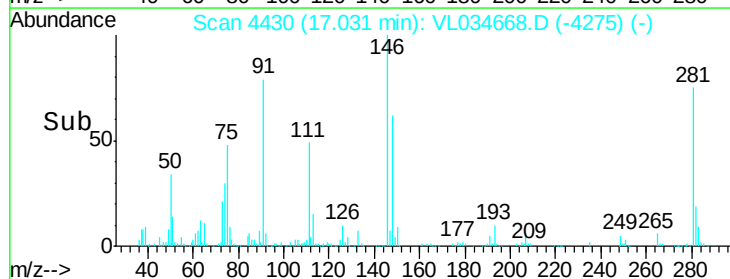
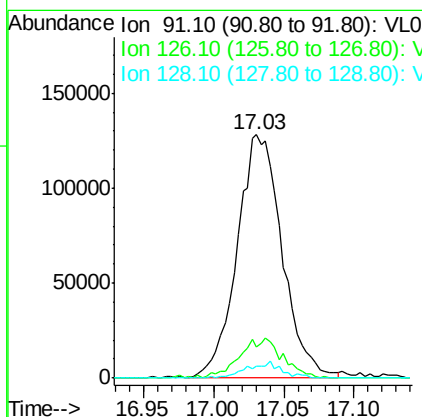
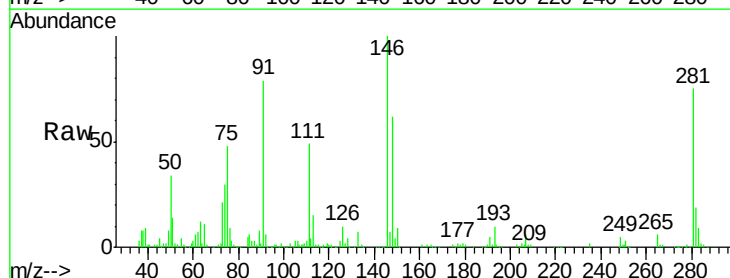
Manual Integrations
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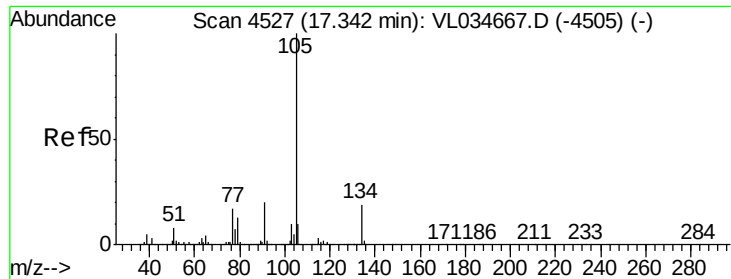
MMDadoda
2/26/2020 12:38:41 PM



#66
Benzyl Chloride
Concen: 1.919 ppbv
RT: 17.03 min Scan# 4430
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.4	13.3	19.9
128	5.4	4.2	6.2





#67

sec-Butylbenzene

Concen: 2.359 ppbv

RT: 17.34 min Scan# 4526

Delta R.T. -0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1143816

Ion Ratio Lower Upper

105 100

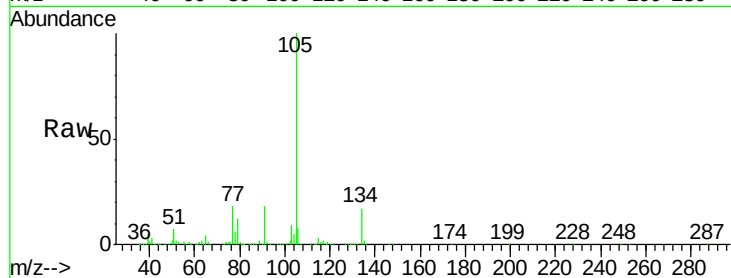
134 16.7 14.6 21.8

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

500000

400000

300000

200000

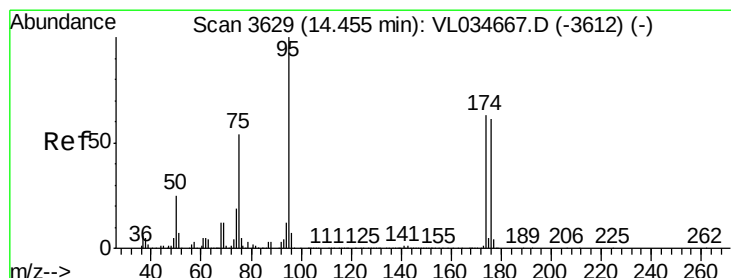
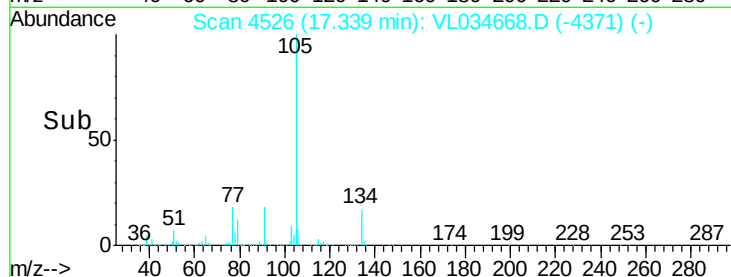
100000

0

17.34

17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.516 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

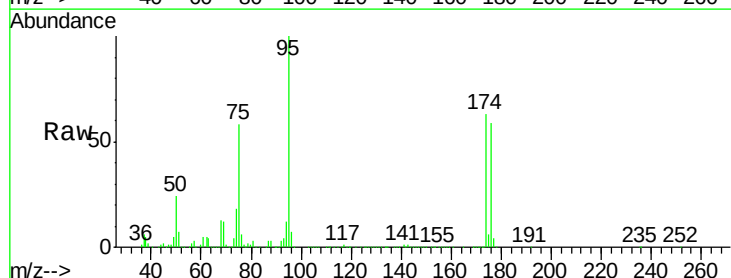
Tgt Ion: 95 Resp: 2034752

Ion Ratio Lower Upper

95 100

174 63.2 51.2 76.8

175 4.8 3.8 5.6



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

1200000

1000000

800000

600000

400000

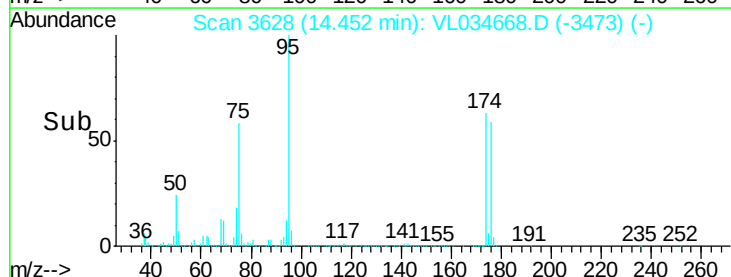
200000

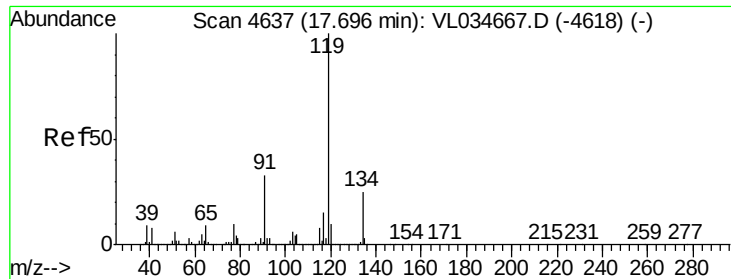
0

14.45

14.50

Time-->





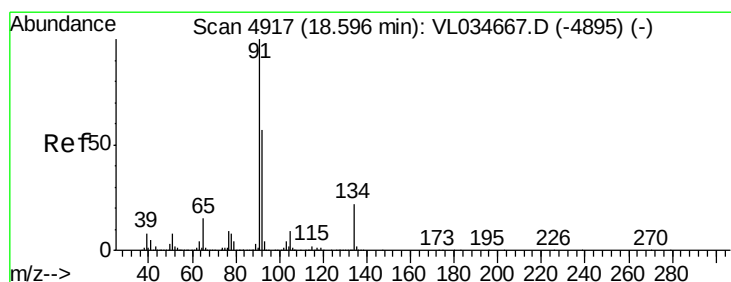
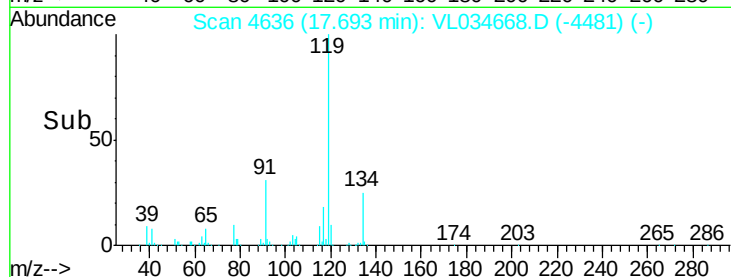
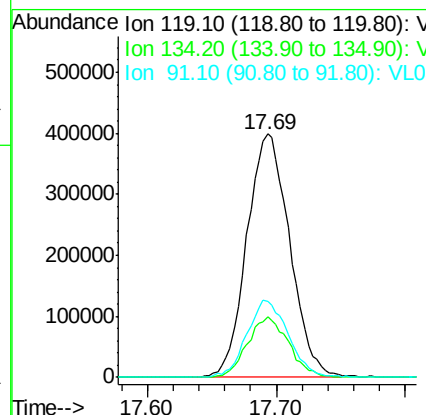
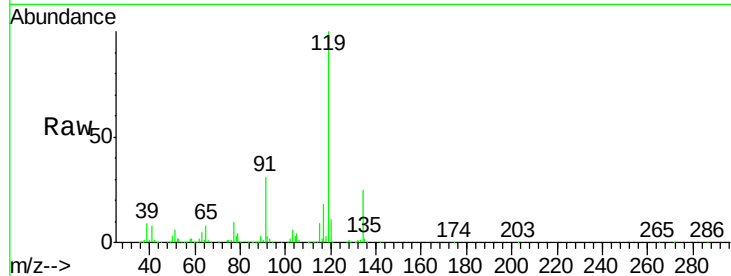
#69
 p-Isopropyltoluene
 Concen: 2.338 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
119	100	920599		
134	24.0		20.6	31.0
91	31.1		25.3	37.9

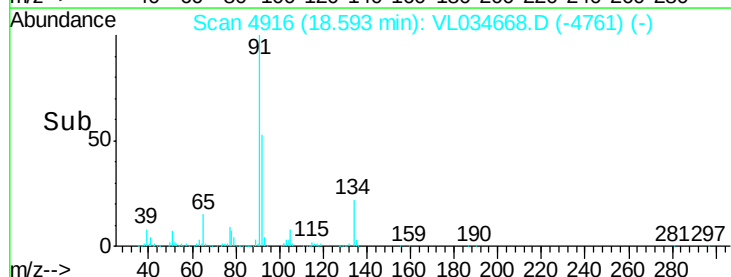
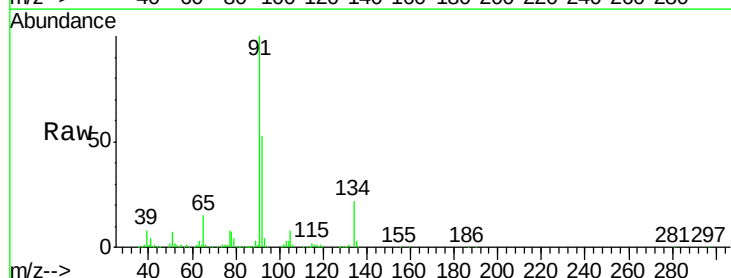
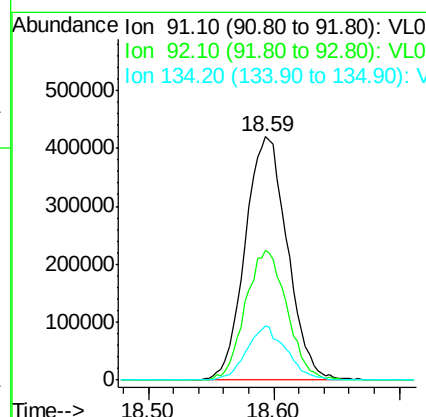
Manual Integrations
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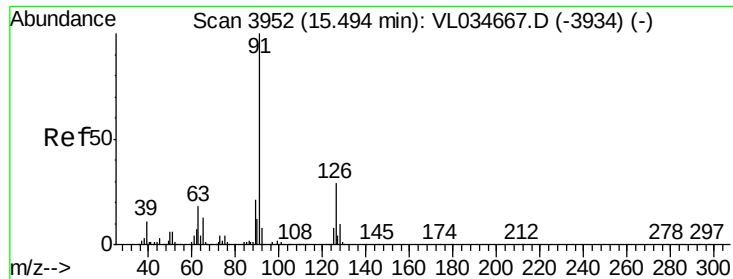
MMDadoda
 2/26/2020 12:38:41 PM



#70
 n-Butylbenzene
 Concen: 2.339 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. -0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	977777		
92	52.9		44.0	66.0
134	21.0		17.6	26.4





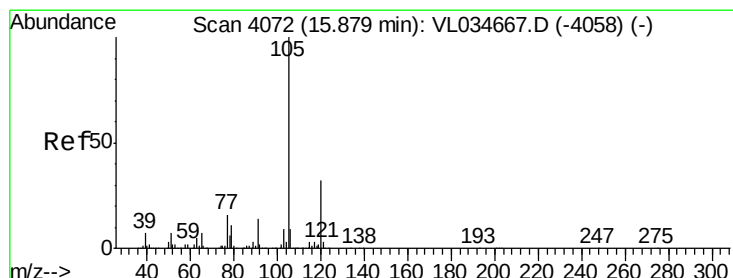
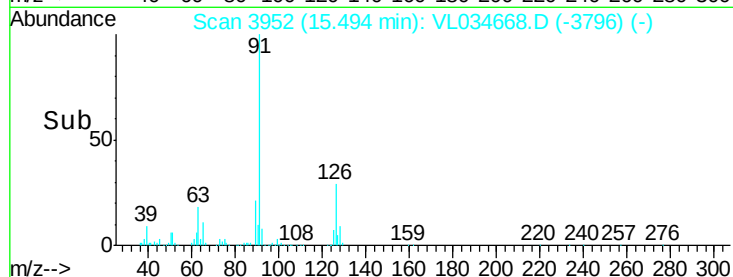
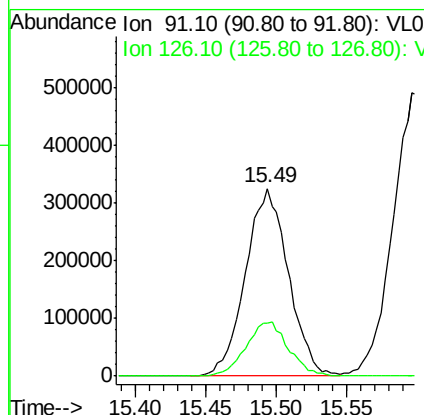
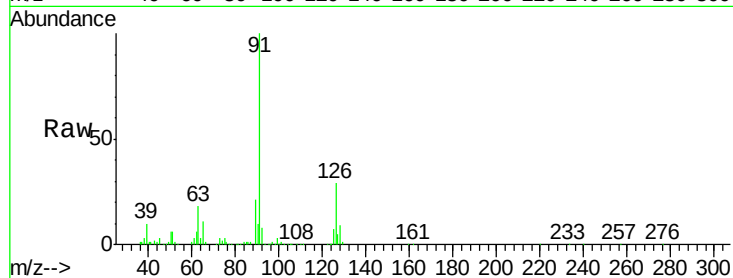
#71
 2-Chlorotoluene
 Concen: 2.338 ppbv
 RT: 15.49 min Scan# 3952
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
91	100		
126	28.7	11.8	47.0

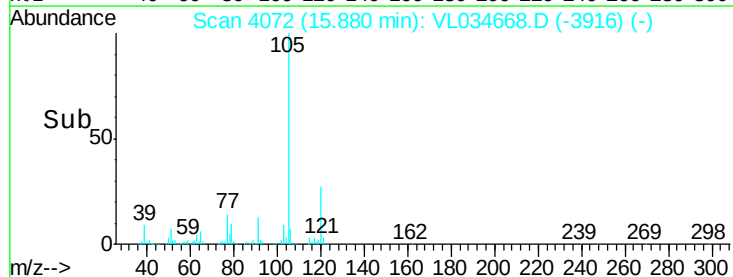
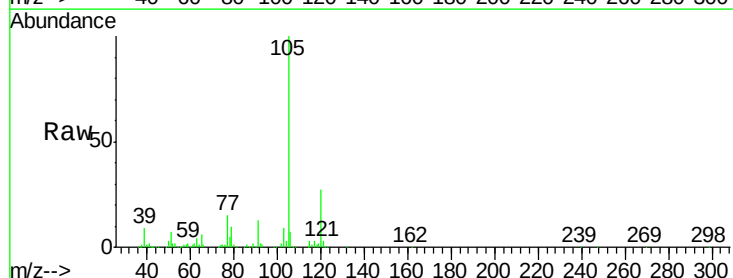
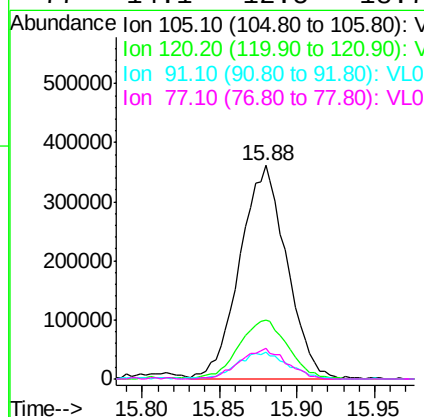
Manual Integrations
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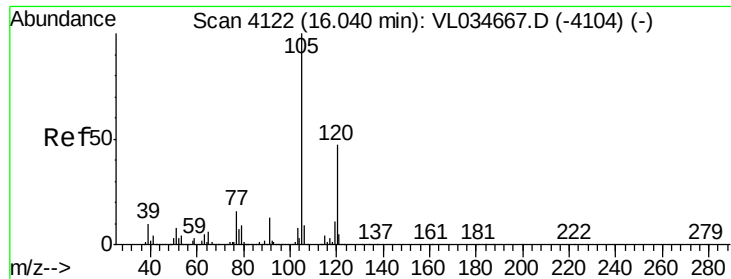
MMDadoda
 2/26/2020 12:38:41 PM



#72
 4-Ethyltoluene
 Concen: 2.304 ppbv
 RT: 15.88 min Scan# 4072
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.9	23.2	34.8
91	14.3	10.9	16.3
77	14.1	12.5	18.7





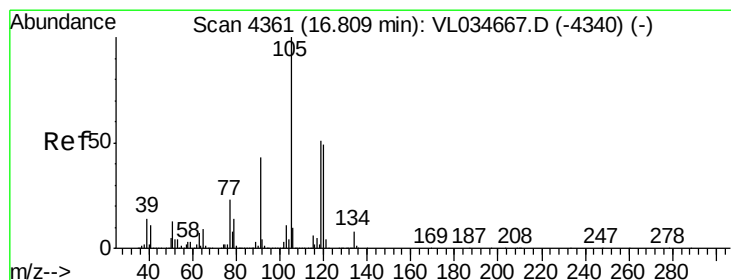
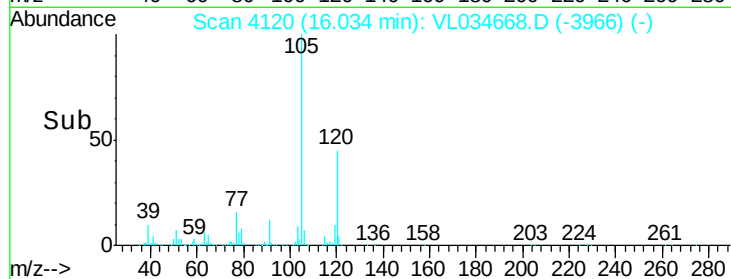
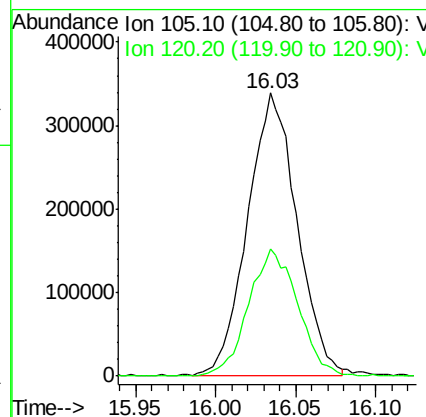
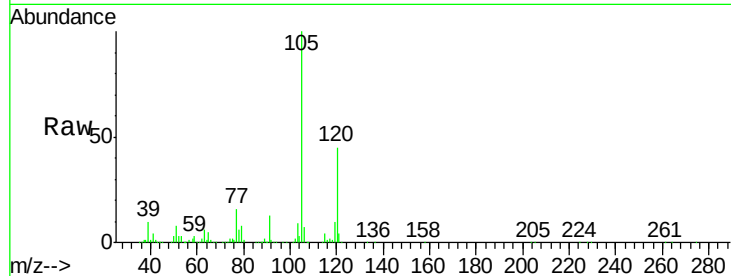
#73
 1,3,5-Trimethylbenzene
 Concen: 2.212 ppbv
 RT: 16.03 min Scan# 4120
 Delta R.T. -0.01 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.0	37.2	55.8

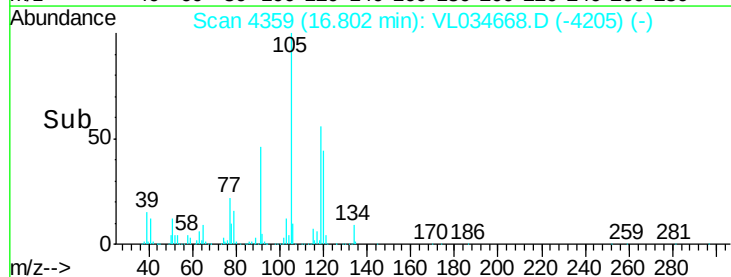
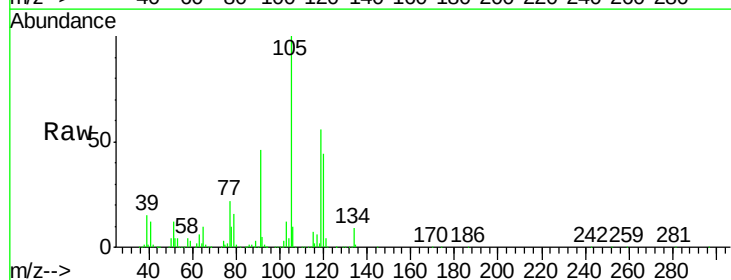
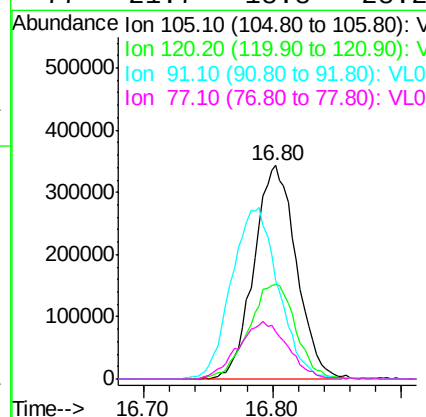
Manual Integrations
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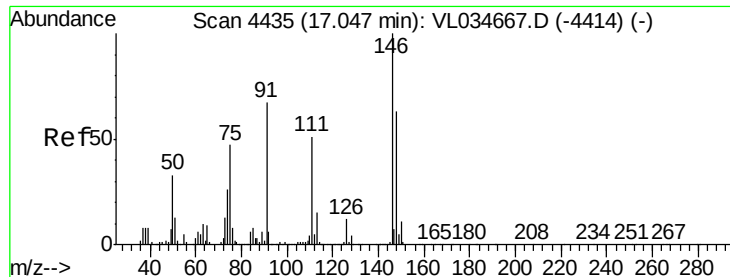
MMDadoda
 2/26/2020 12:38:41 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 2.192 ppbv
 RT: 16.80 min Scan# 4359
 Delta R.T. -0.01 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.5	39.4	59.0
91	45.3	35.1	52.7
77	21.7	18.8	28.2





#75

1,3-Dichlorobenzene

Concen: 2.099 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. -0.01 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

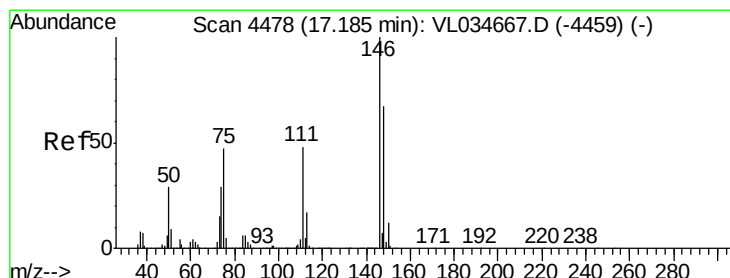
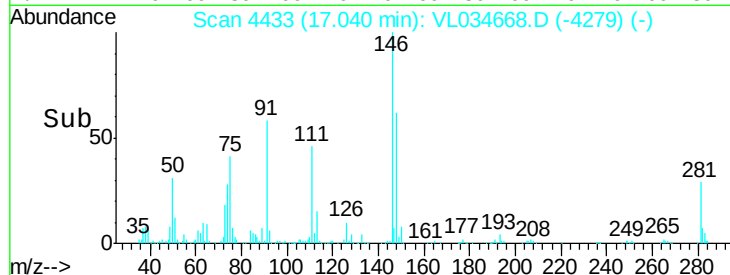
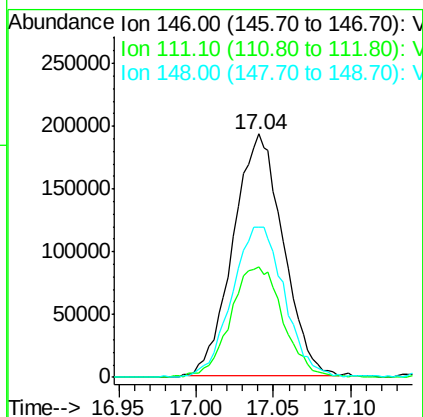
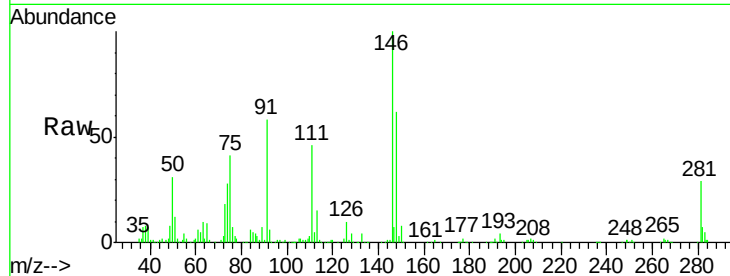
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	431654
Ion Ratio	Lower	Upper	
146	100		
111	48.3	24.0	72.0
148	65.9	32.1	96.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 2.162 ppbv

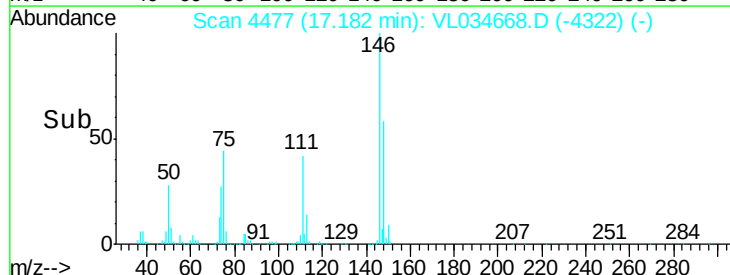
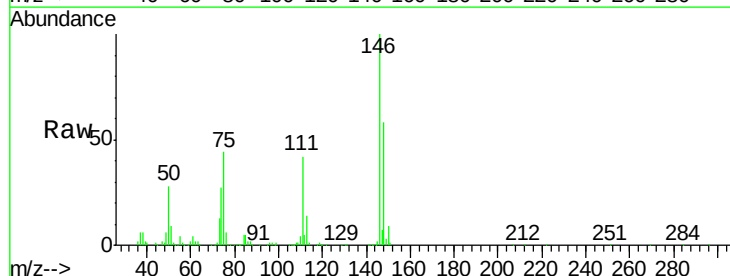
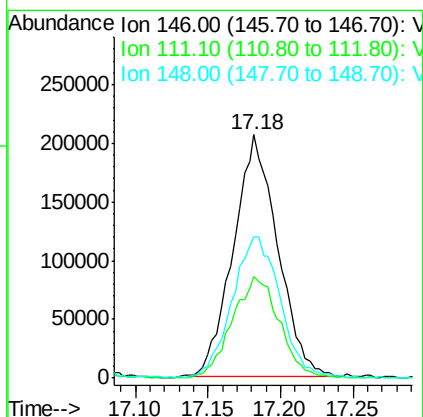
RT: 17.18 min Scan# 4477

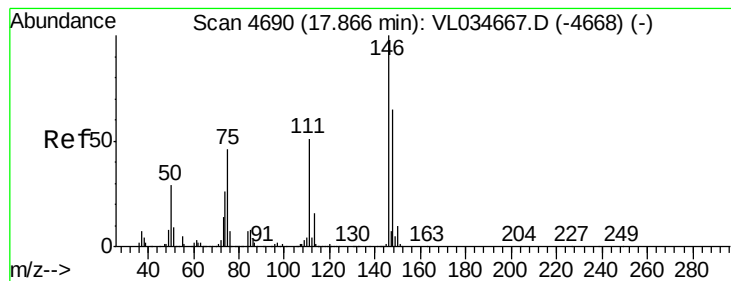
Delta R.T. -0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion:	146	Resp:	438112
Ion Ratio	Lower	Upper	
146	100		
111	44.2	23.8	71.2
148	64.0	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 2.098 ppbv

RT: 17.87 min Scan# 4690

Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Instrument :

MSVOA_L

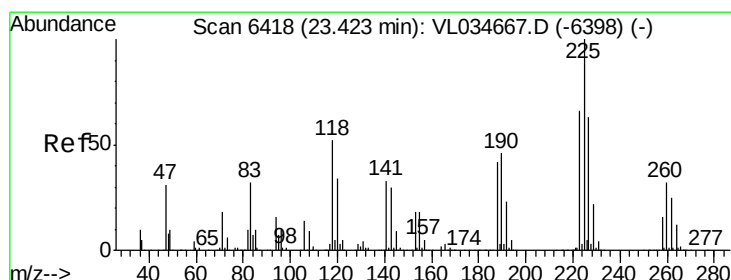
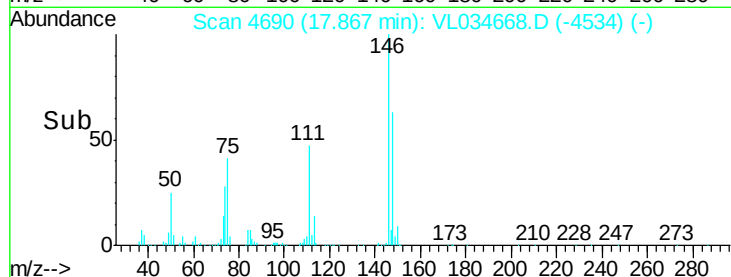
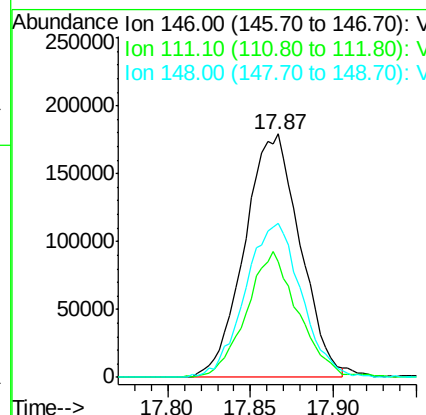
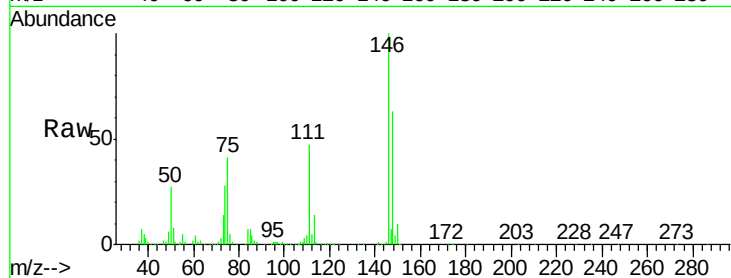
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	414517
Ion Ratio	Lower	Upper	
146	100		
111	48.8	24.9	74.7
148	64.9	32.1	96.3

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 1.893 ppbv m

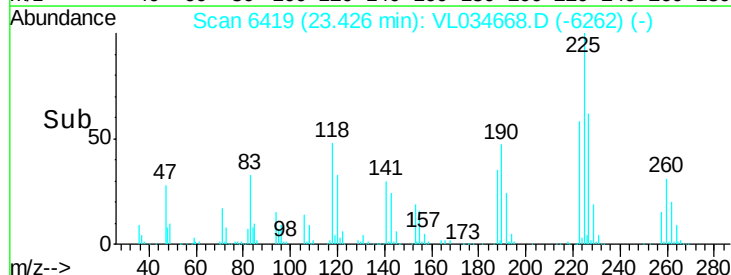
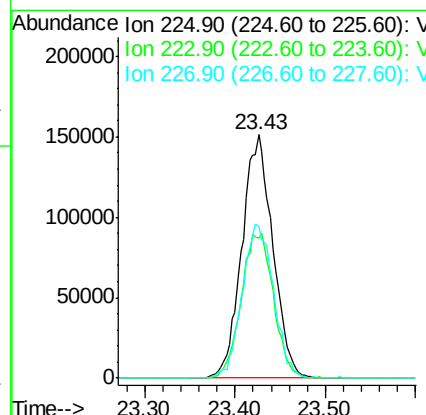
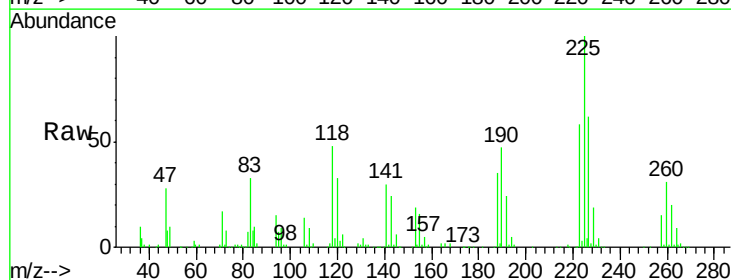
RT: 23.43 min Scan# 6419

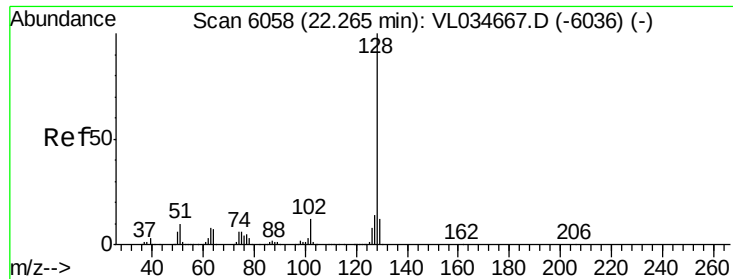
Delta R.T. 0.00 min

Lab File: VL034668.D

Acq: 25 Feb 2020 11:58

Tgt Ion:	225	Resp:	357689
Ion Ratio	Lower	Upper	
225	100		
223	62.2	50.4	75.6
227	64.2	51.8	77.8





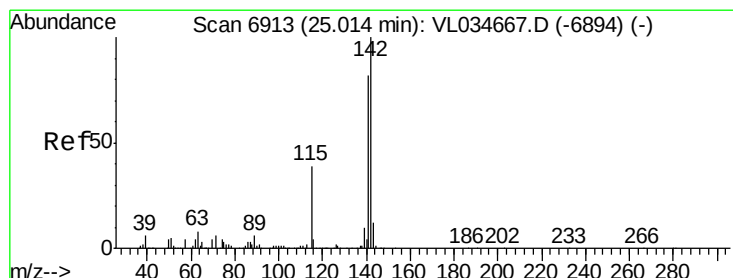
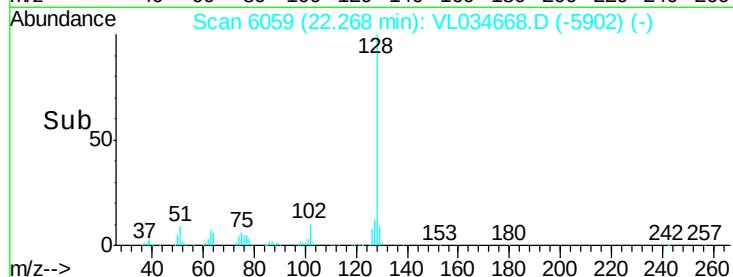
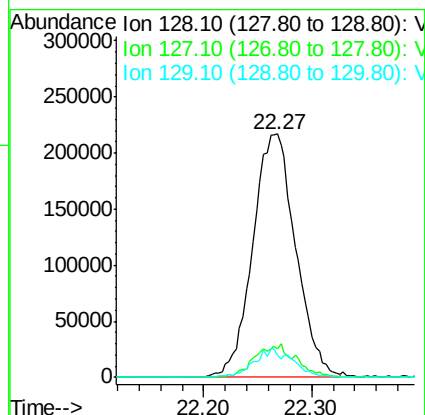
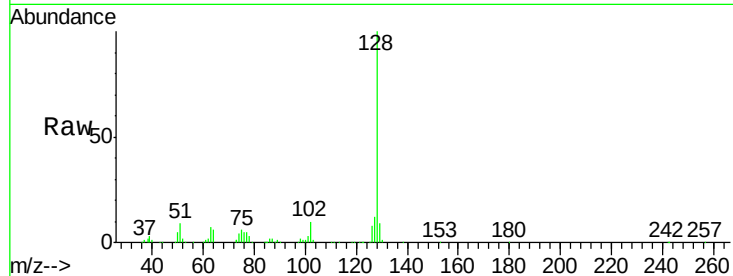
#79
Naphthalene
Concen: 2.132 ppbv
RT: 22.27 min Scan# 6059
Delta R.T. 0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	11.8	11.0	16.4
129	9.2	9.5	14.3#

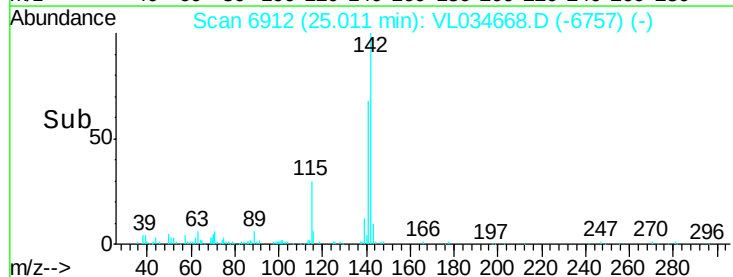
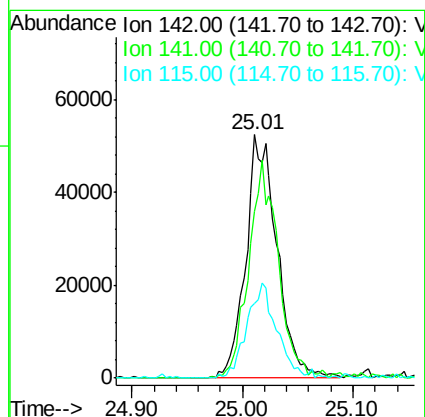
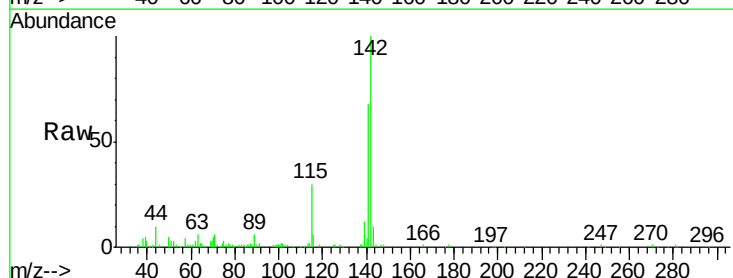
Manual Integrations
APPROVED

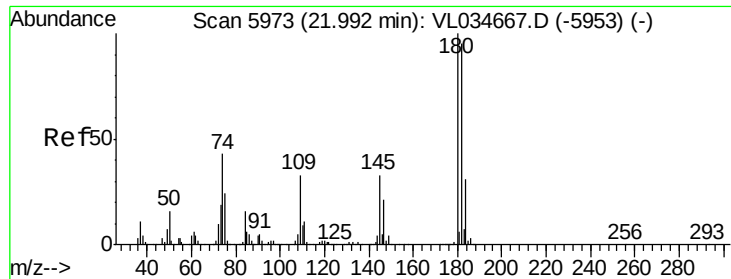
MMDadoda
2/26/2020 12:38:41 PM



#80
Naphthalene, 2-methyl-
Concen: 0.951 ppbv
RT: 25.01 min Scan# 6912
Delta R.T. -0.00 min
Lab File: VL034668.D
Acq: 25 Feb 2020 11:58

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
141	84.1	68.1	102.1
115	38.0	31.0	46.6





#81
 1,2,4-Trichlorobenzene
 Concen: 2.014 ppbv m
 RT: 21.99 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL034668.D
 Acq: 25 Feb 2020 11:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	349179		
182	0.0	77.7	116.5#	
184	0.0	25.3	37.9#	

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:41 PM

