

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034669.D
 Acq On : 25 Feb 2020 12:35
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:43 PM

Quant Time: Feb 25 13:32:06 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	1159790	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2438188	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2437341	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2015639	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	202521	0.793	ppbv	91
3) Chlorodifluoromethane	2.95	51	154468	1.102	ppbv	96
4) Chloromethane	3.11	50	92779	1.082	ppbv	100
5) Vinyl Chloride	3.22	62	85195	1.040	ppbv #	86
6) Bromomethane	3.44	94	43619	1.024	ppbv	92
7) Chloroethane	3.52	64	29589	0.971	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	200271	1.003	ppbv	98
9) Propene	2.97	41	62978	1.154	ppbv	91
10) Heptane	8.13	43	156008	1.136	ppbv	98
11) Trichlorofluoromethane	3.93	101	202340	0.872	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	137499	0.908	ppbv	98
13) Ethanol	3.58	45	21155m	1.447	ppbv	
14) Bromoethene	3.71	108	54140	0.912	ppbv	96
15) Acetone	3.83	43	178499	1.047	ppbv	99
16) 1,3-Butadiene	3.29	39	67521	0.998	ppbv	99
17) tert-Butyl alcohol	4.28	59	128488	1.025	ppbv	98
18) 1,1-Dichloroethene	4.27	96	61166	0.957	ppbv	92
19) Isopropyl Alcohol	3.95	45	125865	1.265	ppbv #	94
20) Methylene Chloride	4.33	84	65079	1.003	ppbv	91
21) Allyl Chloride	4.39	41	99817	0.943	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	57351m	0.857	ppbv	
23) Vinyl Acetate	5.06	43	201400	1.036	ppbv	97
24) 1,1-Dichloroethane	5.00	63	178892	1.102	ppbv #	93
25) Ethyl Acetate	5.67	43	290703	1.053	ppbv	100
26) Hexane	5.68	57	131038	1.134	ppbv	99
27) Carbon Disulfide	4.53	76	140004	0.898	ppbv	95
28) Methyl tert-Butyl Ether	5.02	73	186465m	0.946	ppbv	
29) Chloroform	5.75	83	209754	1.026	ppbv	99
30) Cyclohexane	7.14	84	94561	1.104	ppbv	93
31) cis-1,2-Dichloroethene	5.54	61	121290	1.010	ppbv	91
32) 1,1,1-Trichloroethane	6.51	97	187354m	0.854	ppbv	
34) 2-Butanone	5.24	43	184030	1.040	ppbv	100
35) Carbon Tetrachloride	7.02	117	192715	0.827	ppbv #	92
36) Benzene	6.90	78	243634	1.124	ppbv	93
37) 1,2-Dichloroethane	6.31	62	165004	0.912	ppbv	99
38) Trichloroethene	7.85	130	96313m	1.054	ppbv	
39) 1,2-Dichloropropane	7.62	63	100459	1.118	ppbv	96
40) 1,4-Dioxane	7.86	88	39604m	1.146	ppbv	
41) Tetrahydrofuran	6.06	42	88905	0.963	ppbv	99
42) Bromodichloromethane	7.81	83	207165	0.930	ppbv	93
43) Methyl Methacrylate	8.03	69	86510	0.992	ppbv	99

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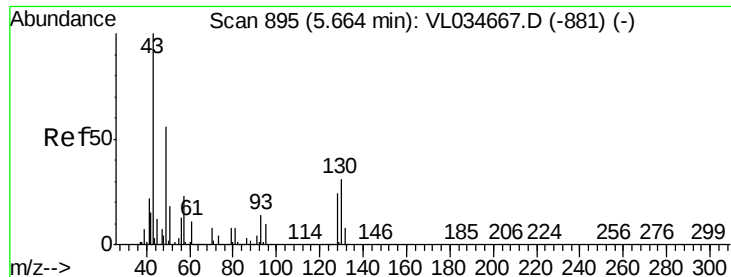
Manual Integrations
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Quant Time: Feb 25 13:32:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	445921	1.134	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	95594	0.837	ppbv #	87
46) cis-1,3-Dichloropropene	8.72	75	114263	0.880	ppbv	92
47) 1,1,2-Trichloroethane	9.50	97	105741m	1.086	ppbv	
48) Dibromochloromethane	10.33	129	156340	0.876	ppbv	97
49) Bromoform	13.08	173	133440	0.852	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	254789	1.009	ppbv	98
51) 2-Hexanone	10.17	43	189292	0.952	ppbv #	99
52) Tetrachloroethene	11.25	164	88138m	1.012	ppbv	
53) Toluene	9.83	91	251417	1.056	ppbv	97
54) 1,2-Dibromoethane	10.64	107	142610	0.978	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.16	131	116065	0.965	ppbv #	1
57) Chlorobenzene	12.18	112	226585m	1.130	ppbv	
58) Ethyl Benzene	12.74	91	346428	1.062	ppbv	96
59) m/p-Xylene	13.03	91	623283m	2.162	ppbv	
60) o-Xylene	13.73	91	322197	1.113	ppbv	95
61) Styrene	13.56	104	206032	1.067	ppbv	99
62) Isopropylbenzene	14.71	105	414661m	1.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	240839	1.075	ppbv	98
64) n-propylbenzene	15.60	120	101819	1.055	ppbv	83
65) tert-Butylbenzene	16.79	119	364955	1.074	ppbv	97
66) Benzyl Chloride	17.03	91	112503	0.789	ppbv	99
67) sec-Butylbenzene	17.34	105	525564	1.125	ppbv	98
69) p-Isopropyltoluene	17.69	119	409596	1.080	ppbv	99
70) n-Butylbenzene	18.60	91	437864	1.087	ppbv	97
71) 2-Chlorotoluene	15.49	91	311828	1.095	ppbv	96
72) 4-Ethyltoluene	15.88	105	352306m	1.108	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	332135	1.069	ppbv	92
74) 1,2,4-Trimethylbenzene	16.80	105	360544	1.048	ppbv #	90
75) 1,3-Dichlorobenzene	17.04	146	208848	1.054	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	208169m	1.066	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	202086	1.062	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	168055	0.923	ppbv	99
79) Naphthalene	22.27	128	239721m	0.885	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	37741	0.362	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	153197m	0.917	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: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1159790

Ion Ratio Lower Upper

49 100

128 43.5 21.9 65.5

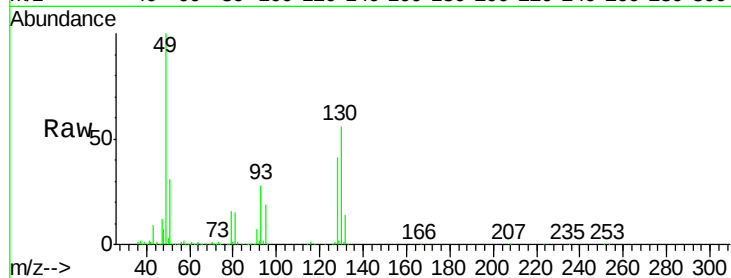
130 55.8 27.9 83.7

Manual Integrations

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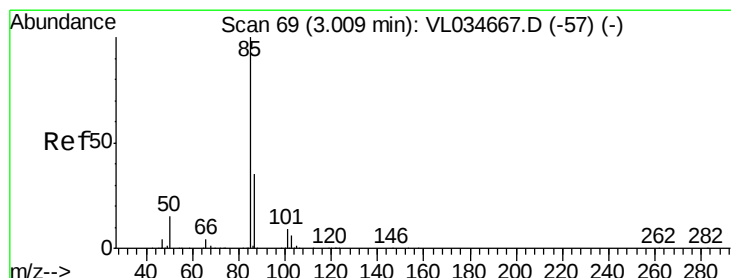
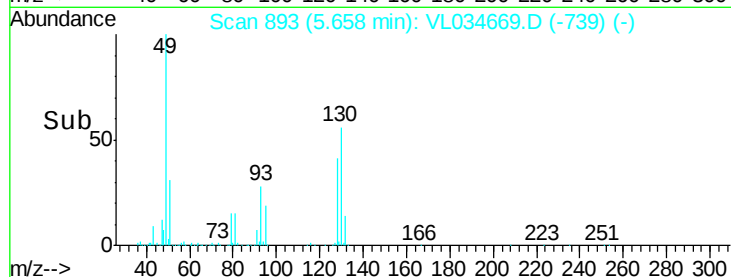
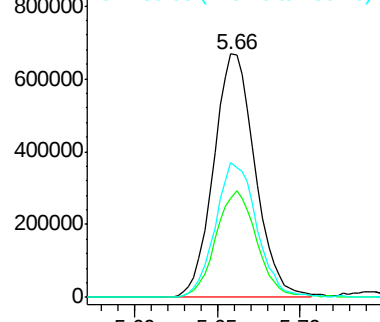
2/26/2020 12:38:43 PM



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: 0.793 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034669.D

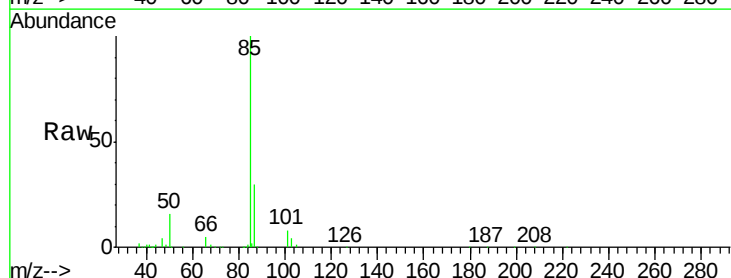
Acq: 25 Feb 2020 12:35

Tgt Ion: 85 Resp: 202521

Ion Ratio Lower Upper

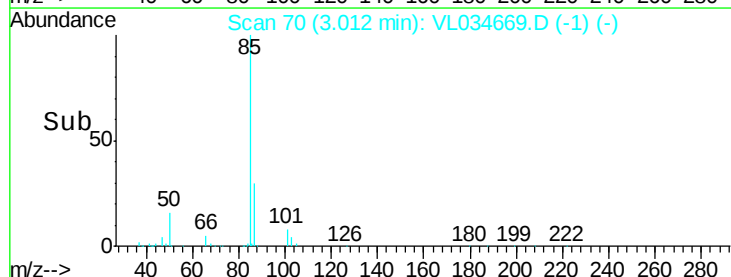
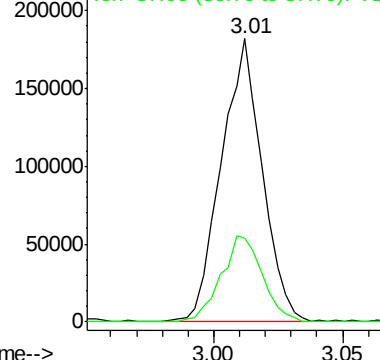
85 100

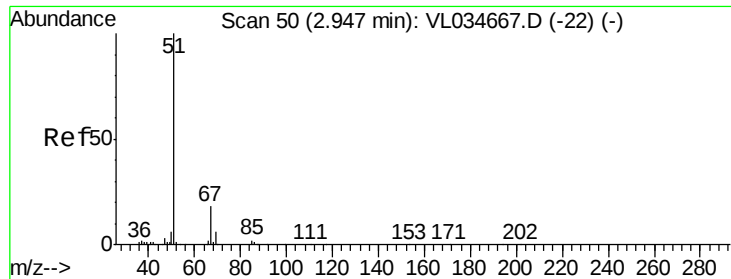
87 29.6 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

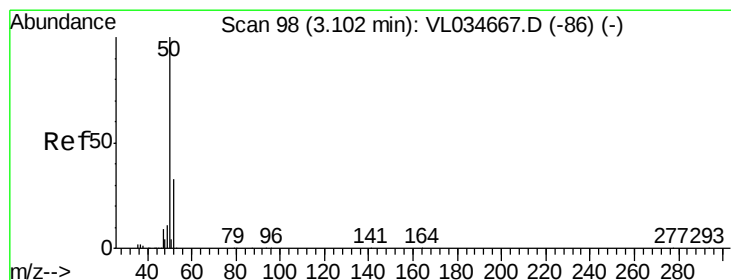
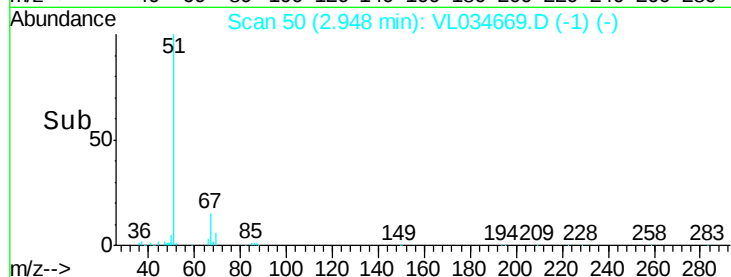
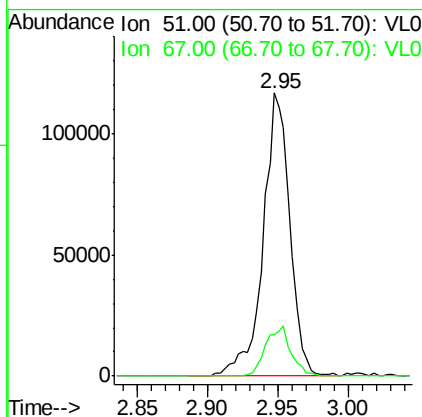
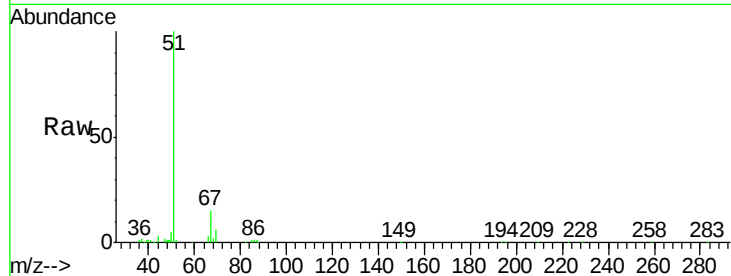
Chlorodifluoromethane
 Concen: 1.102 ppbv
 RT: 2.95 min Scan# 50
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.8	15.0	22.4

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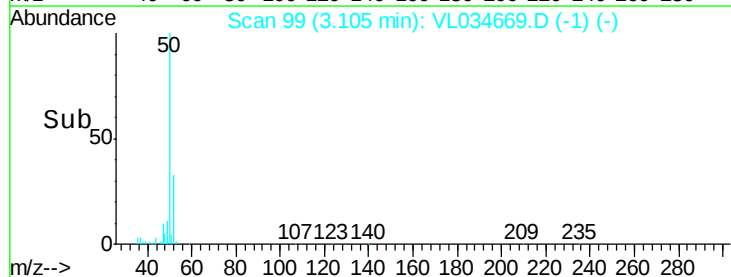
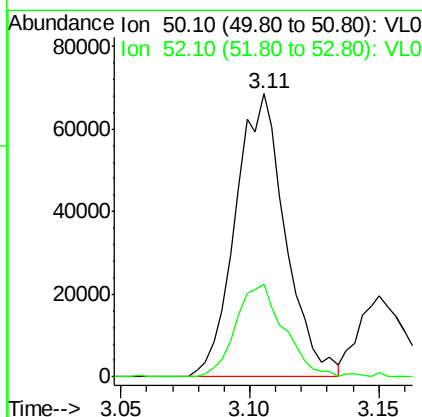
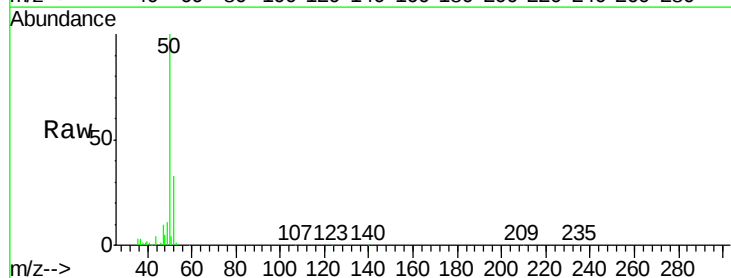
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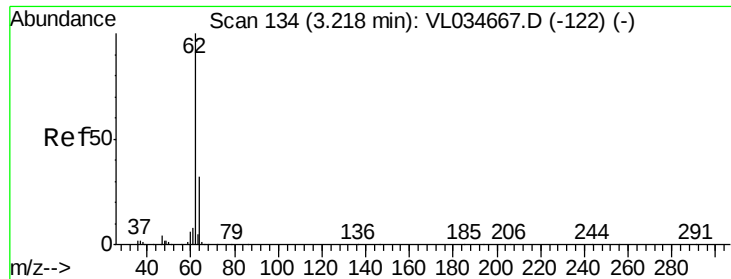


#4

Chloromethane
 Concen: 1.082 ppbv
 RT: 3.11 min Scan# 99
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.2	39.4





#5

Vinyl Chloride

Concen: 1.040 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 85195

Ion Ratio Lower Upper

62 100

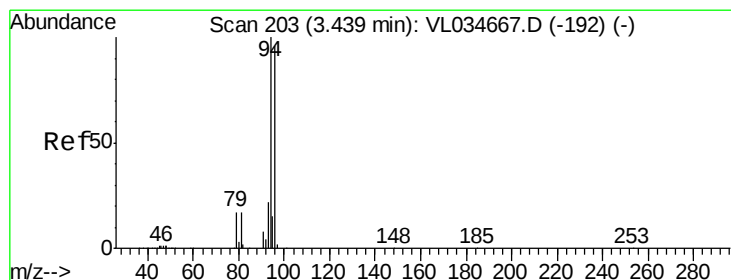
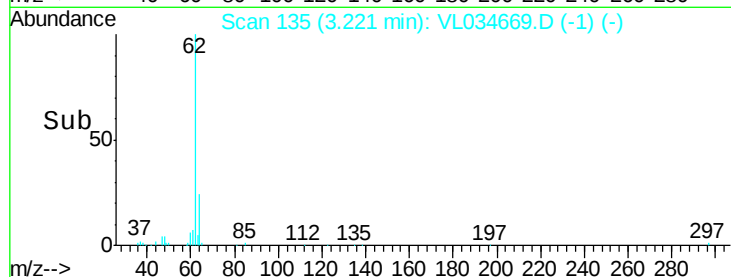
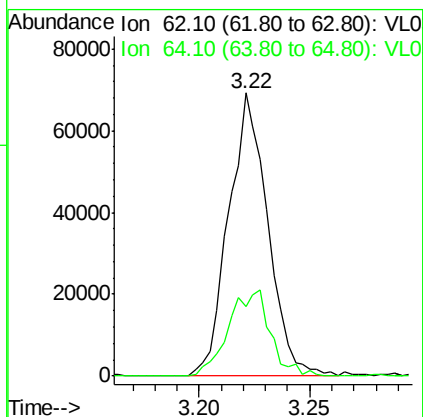
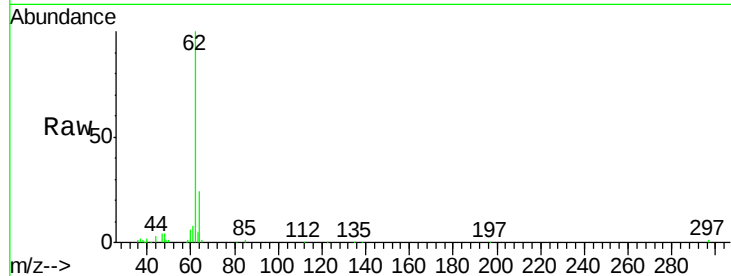
64 24.4 25.7 38.5#

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2/26/2020 12:38:43 PM



#6

Bromomethane

Concen: 1.024 ppbv

RT: 3.44 min Scan# 203

Delta R.T. 0.00 min

Lab File: VL034669.D

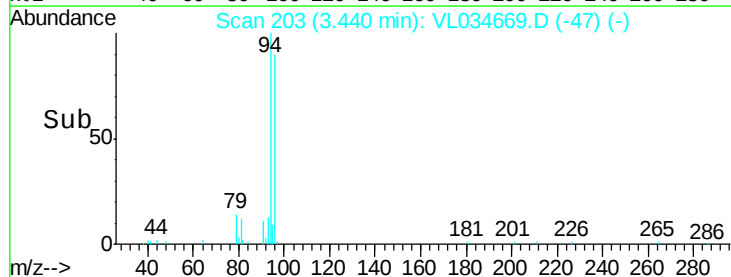
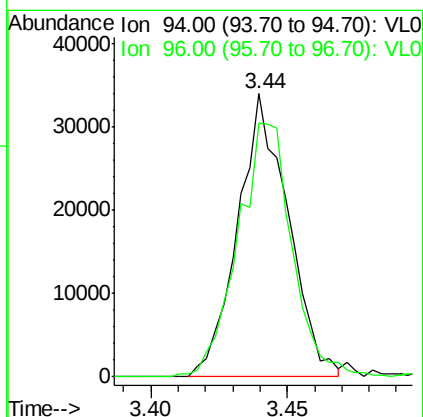
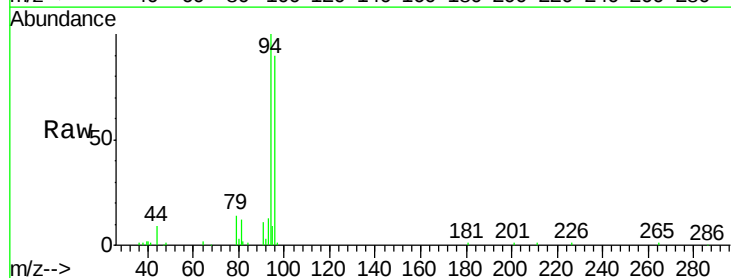
Acq: 25 Feb 2020 12:35

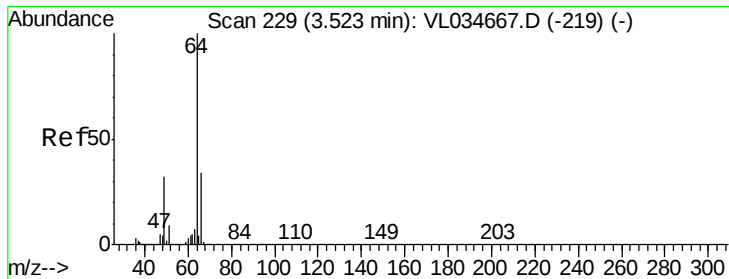
Tgt Ion: 94 Resp: 43619

Ion Ratio Lower Upper

94 100

96 88.3 77.0 115.4





#7

Chloroethane

Concen: 0.971 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 29589

Ion Ratio Lower Upper

64 100

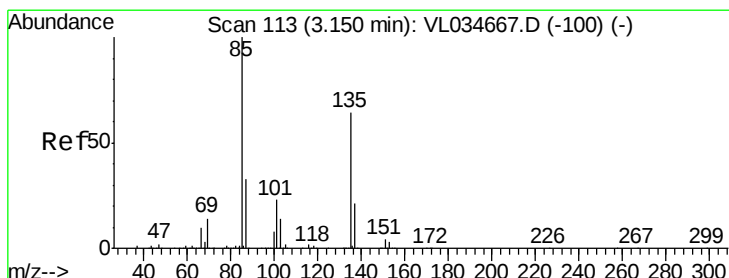
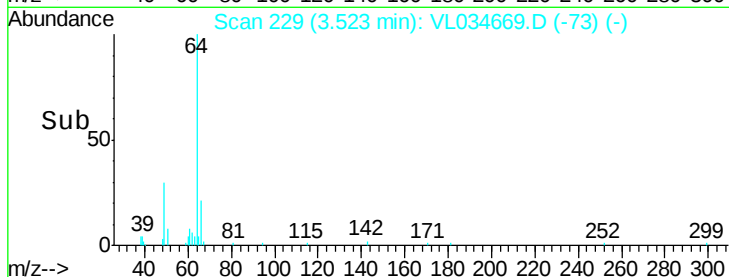
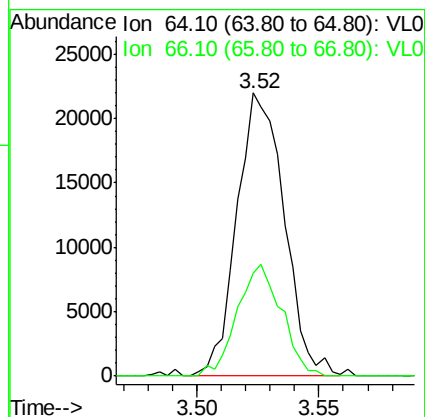
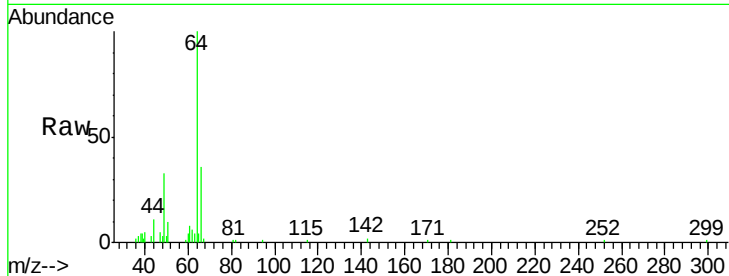
66 34.9 26.9 40.3

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2/26/2020 12:38:43 PM



#8

Dichlorotetrafluoroethane

Concen: 1.003 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL034669.D

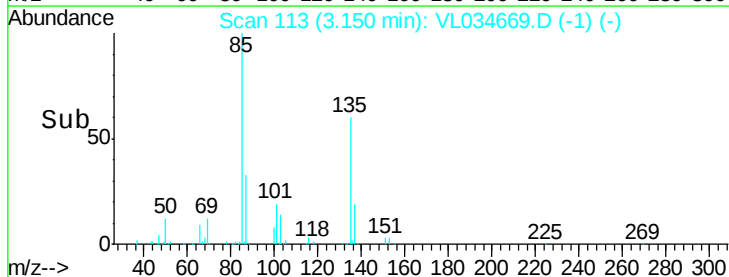
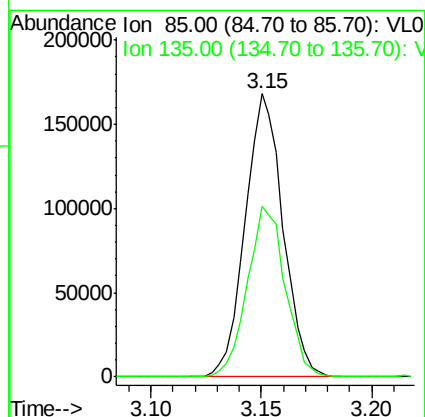
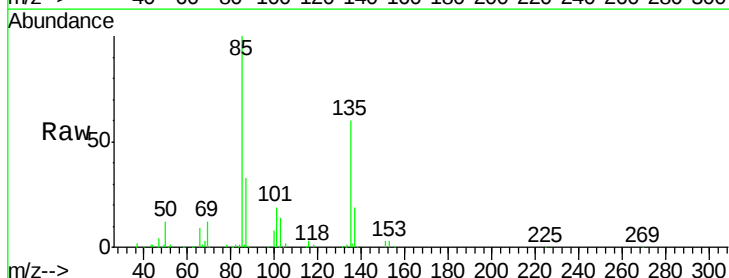
Acq: 25 Feb 2020 12:35

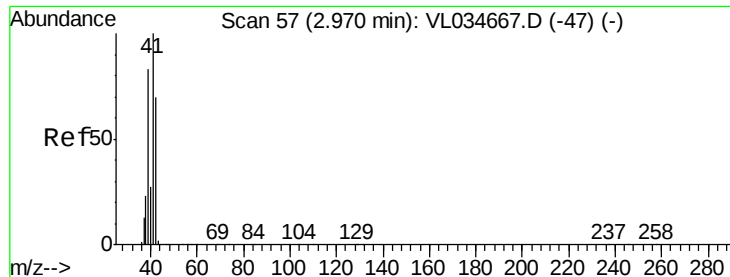
Tgt Ion: 85 Resp: 200271

Ion Ratio Lower Upper

85 100

135 60.4 49.3 73.9





#9

Propene

Concen: 1.154 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 62978

Ion Ratio Lower Upper

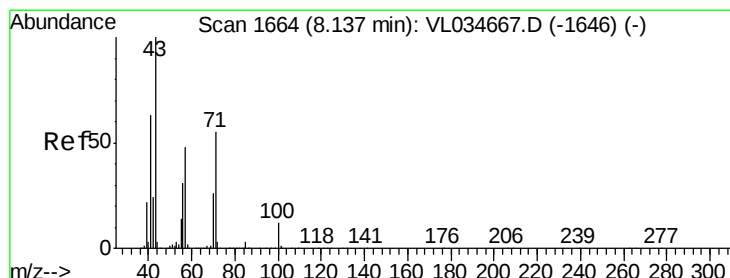
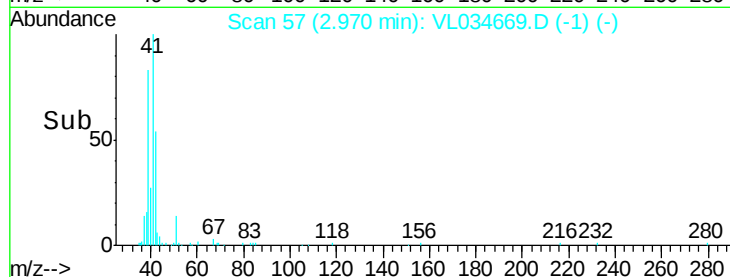
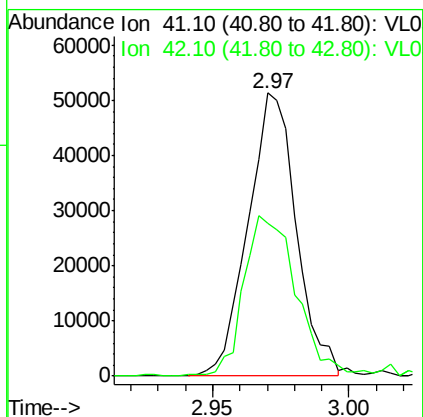
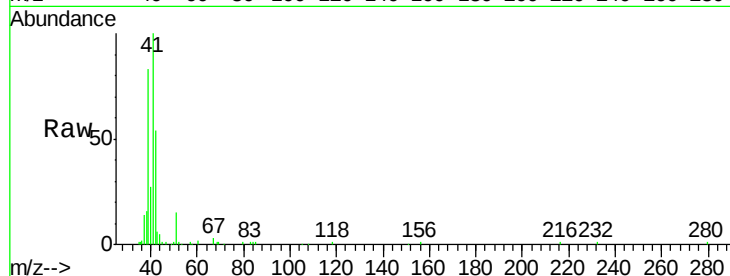
41 100

42 63.8 57.0 85.4

Manual Integrations
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2/26/2020 12:38:43 PM



#10

Heptane

Concen: 1.136 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034669.D

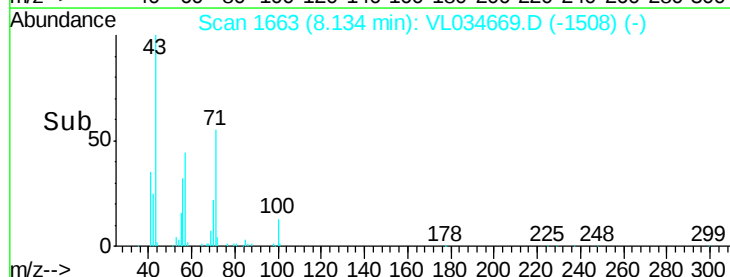
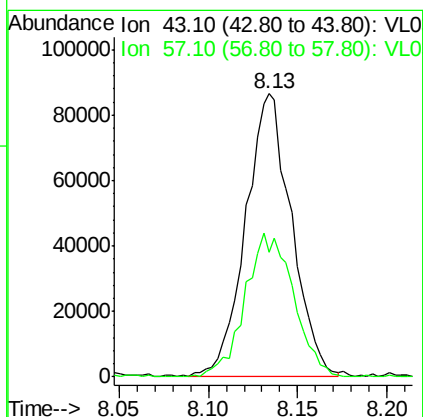
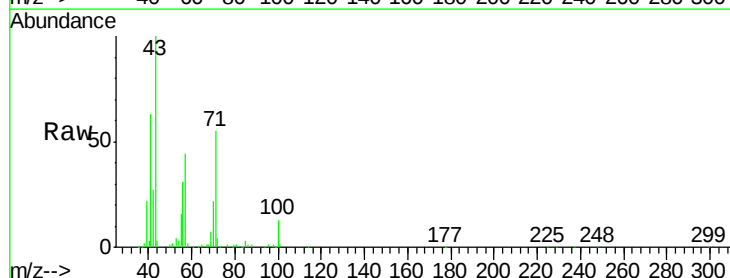
Acq: 25 Feb 2020 12:35

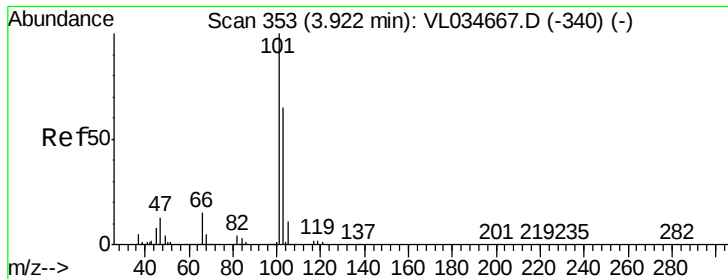
Tgt Ion: 43 Resp: 156008

Ion Ratio Lower Upper

43 100

57 53.7 41.7 62.5





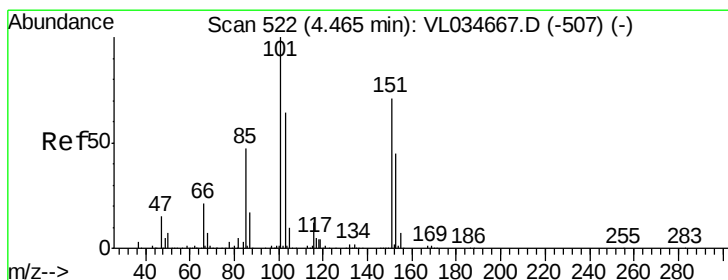
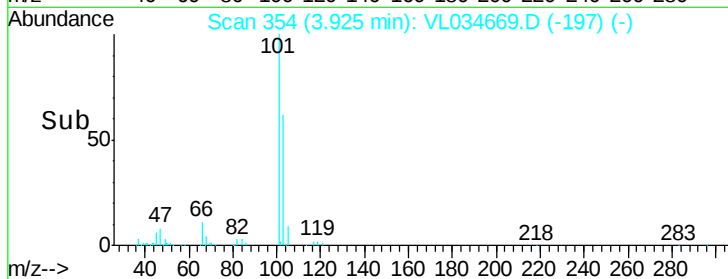
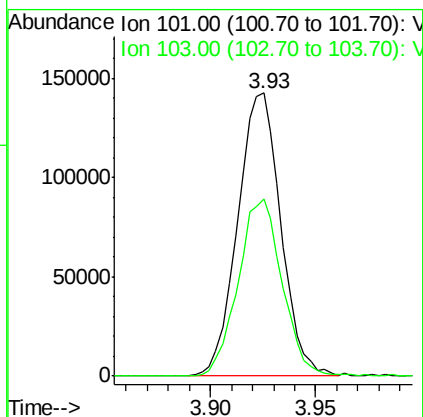
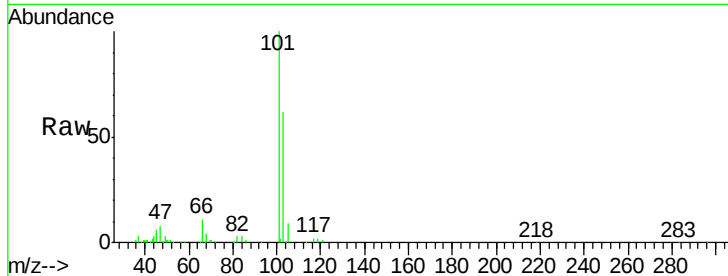
#11
 Trichlorofluoromethane
 Concen: 0.872 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	52.3	78.5

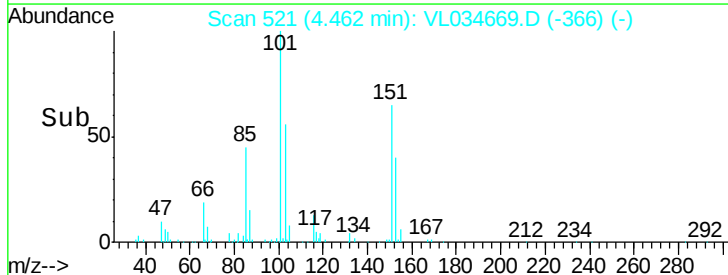
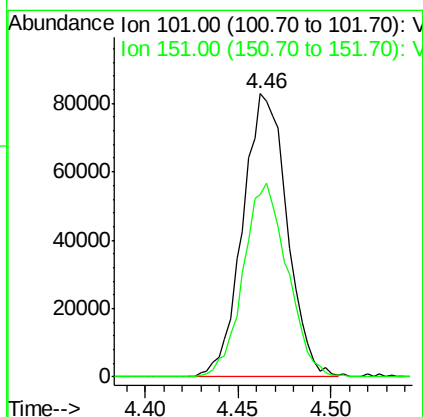
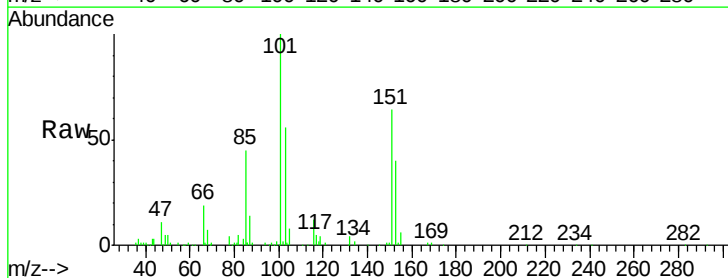
Manual Integrations
 APPROVED

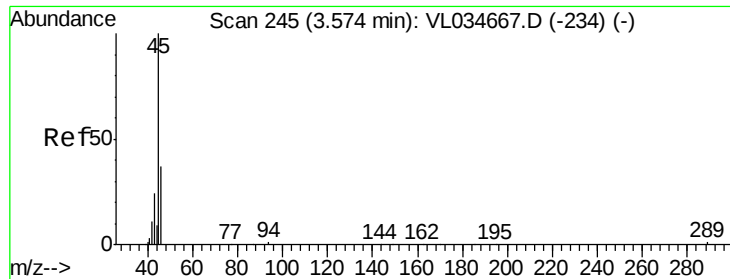
MMDadoda
 2/26/2020 12:38:43 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.908 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
101	100		
151	68.2	55.5	83.3





#13

Ethanol

Concen: 1.447 ppbv m

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 21155

Ion Ratio Lower Upper

45 100

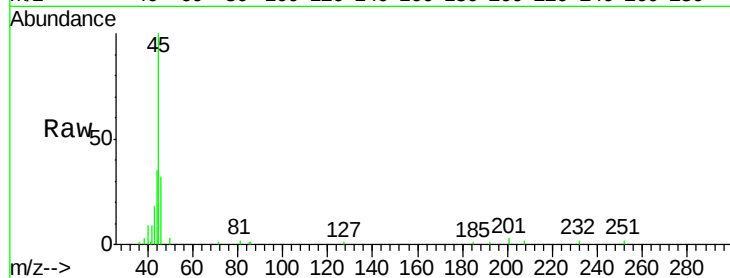
46 45.7 15.1 60.5

Manual Integrations

APPROVED

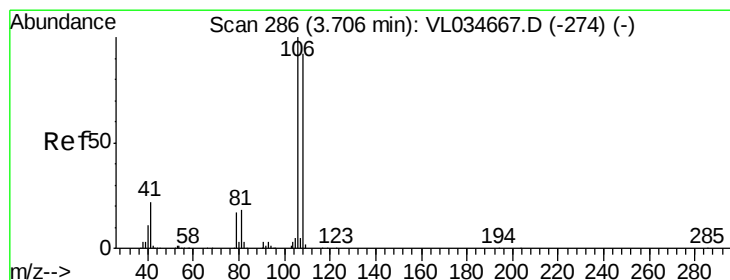
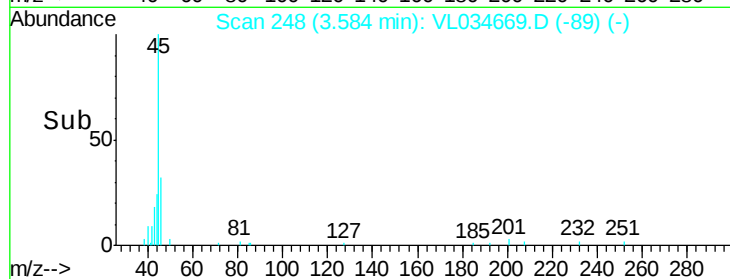
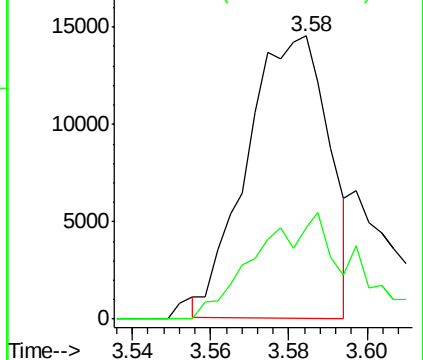
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.912 ppbv

RT: 3.71 min Scan# 288

Delta R.T. 0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

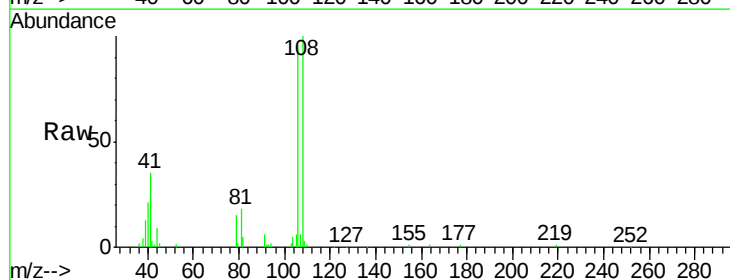
Tgt Ion: 108 Resp: 54140

Ion Ratio Lower Upper

108 100

106 111.9 86.4 129.6

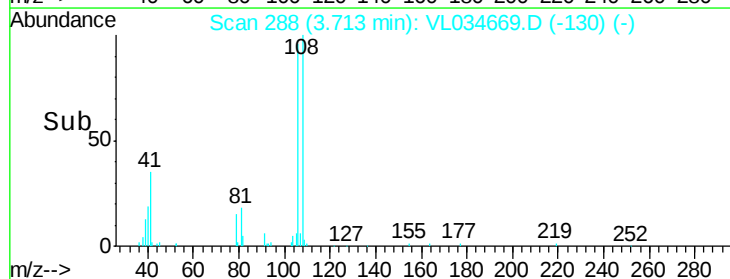
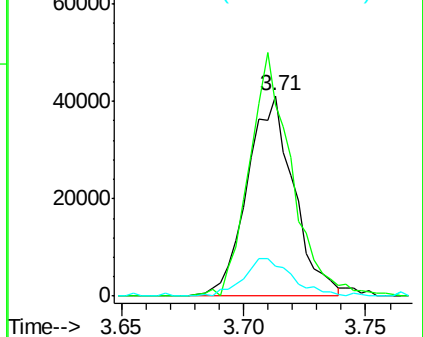
79 20.2 14.6 22.0

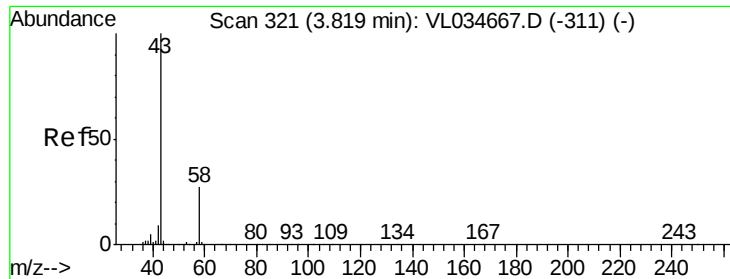


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 1.047 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 178499

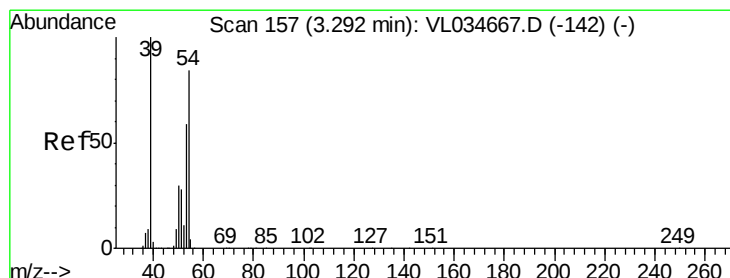
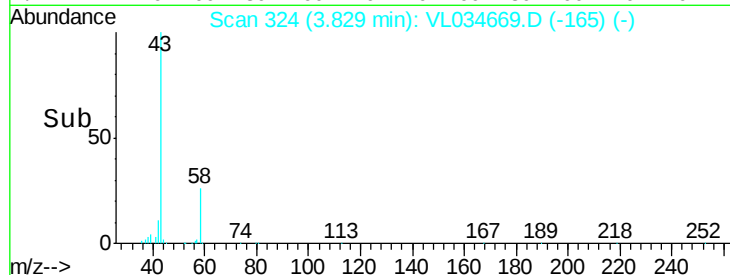
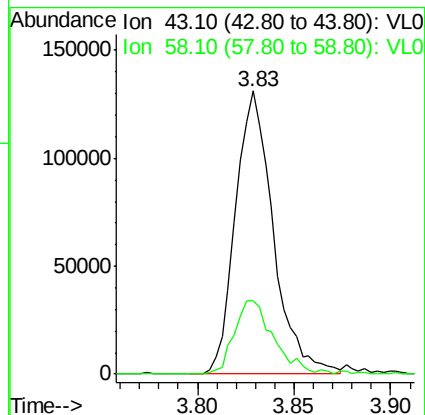
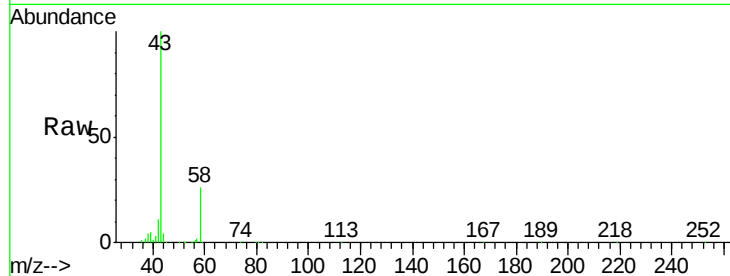
Ion Ratio Lower Upper

43 100

58 27.3 21.4 32.0

Manual Integrations
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#16

1,3-Butadiene

Concen: 0.998 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034669.D

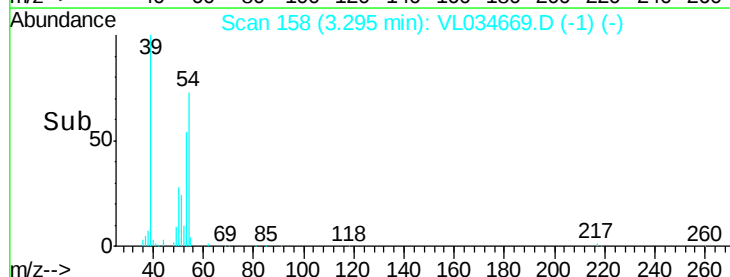
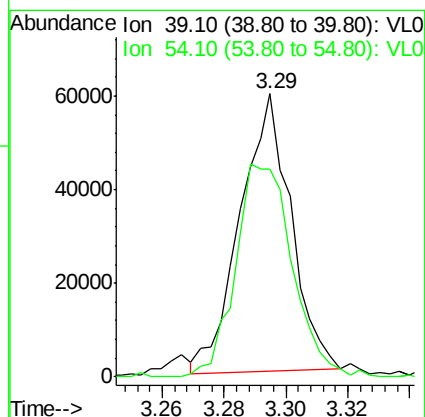
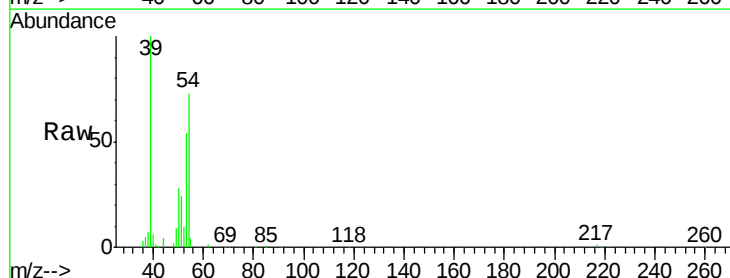
Acq: 25 Feb 2020 12:35

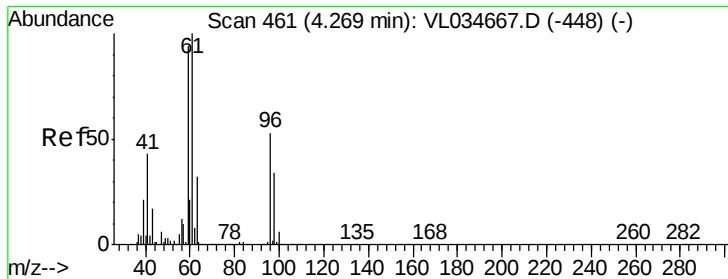
Tgt Ion: 39 Resp: 67521

Ion Ratio Lower Upper

39 100

54 86.5 68.2 102.2





#17

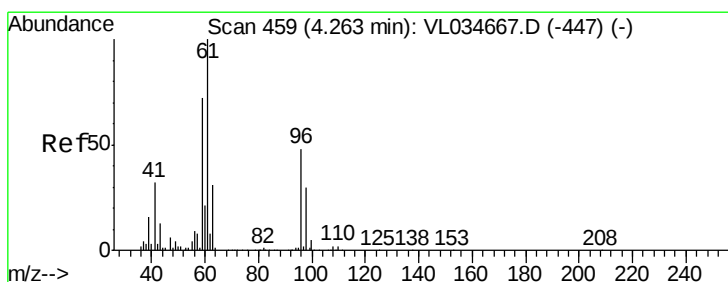
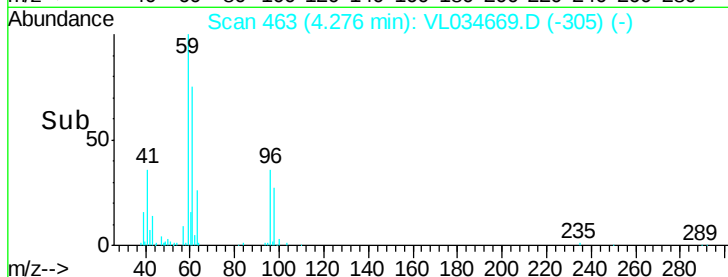
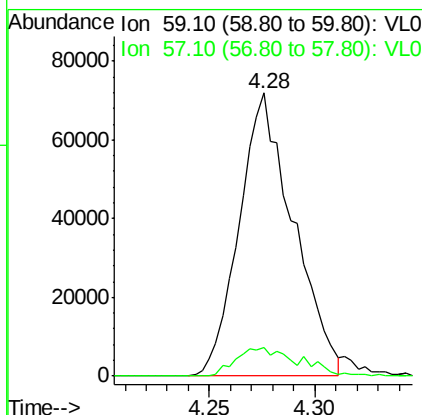
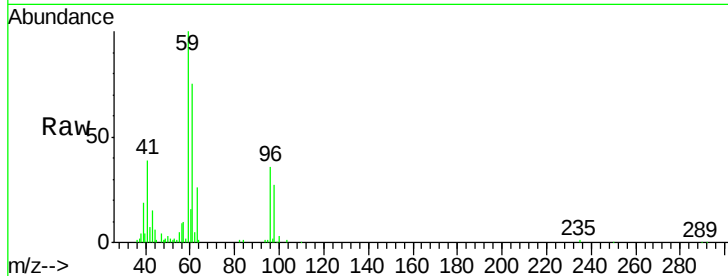
tert-Butyl alcohol
Concen: 1.025 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	59	Resp	128488
Ion Ratio	Lower	Upper	
59	100		
57	11.9	8.8	13.2

Manual Integrations
APPROVED

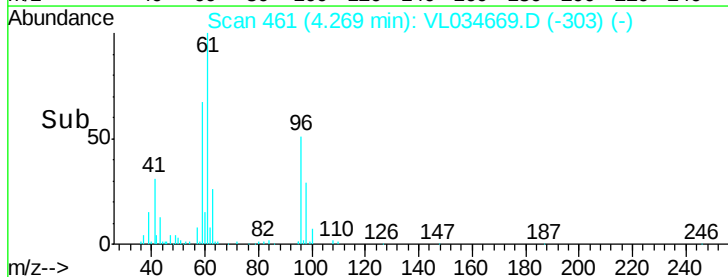
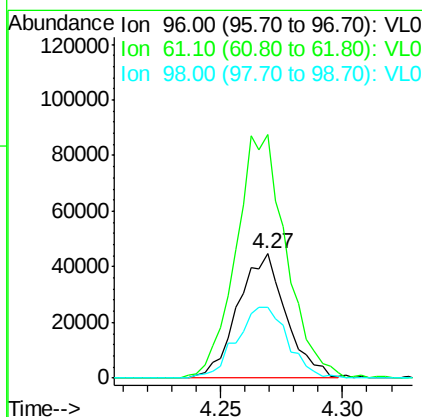
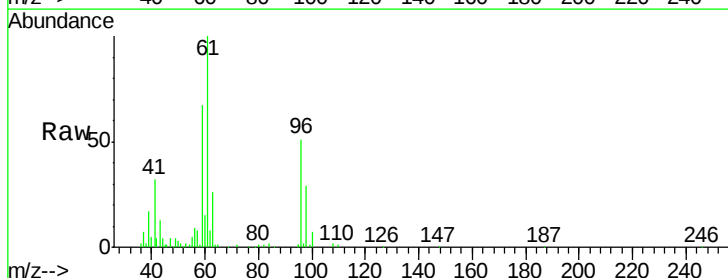
MMDadoda
2/26/2020 12:38:43 PM

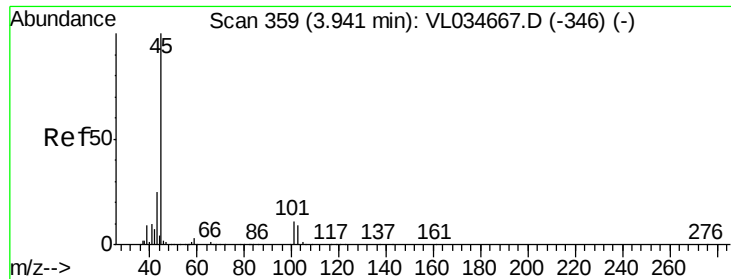


#18

1,1-Dichloroethene
Concen: 0.957 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	96	Resp	61166
Ion Ratio	Lower	Upper	
96	100		
61	193.3	165.3	247.9
98	56.4	48.9	73.3





#19

Isopropyl Alcohol

Concen: 1.265 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 125865

Ion Ratio Lower Upper

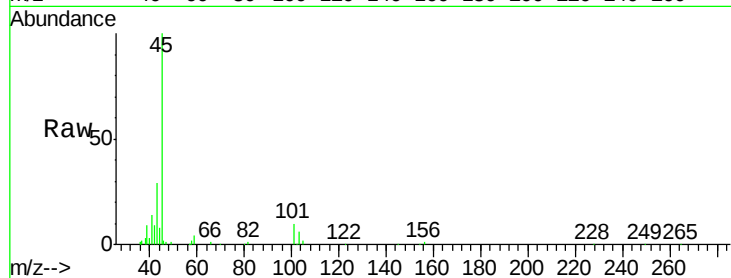
45 100

58 4.2 1.8 2.8#

Manual Integrations
APPROVED

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

80000

60000

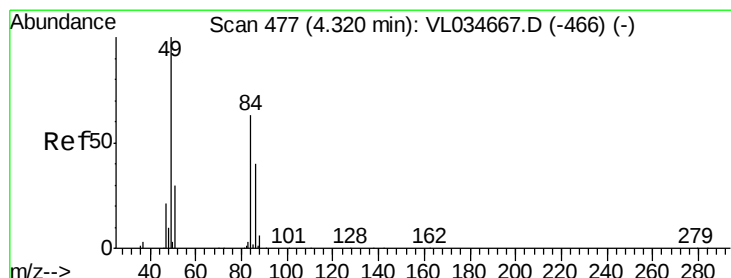
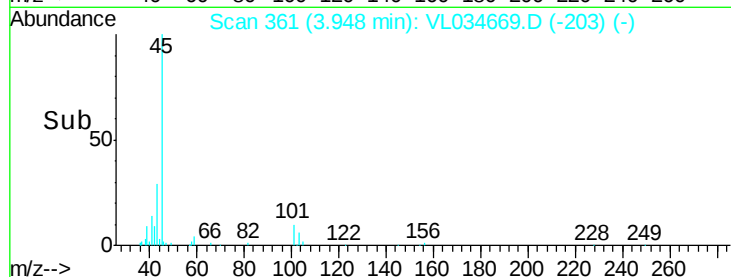
40000

20000

0

Time-->

3.90 3.95 4.00



#20

Methylene Chloride

Concen: 1.003 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion: 84 Resp: 65079

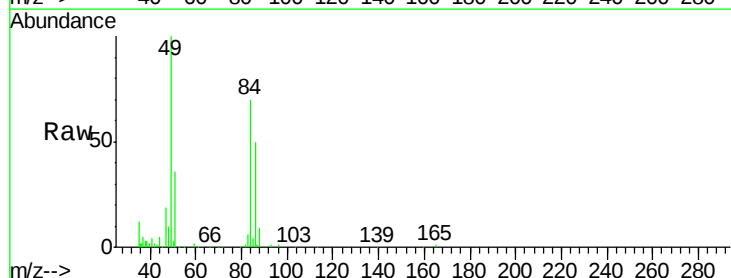
Ion Ratio Lower Upper

84 100

49 143.4 127.6 191.4

51 49.4 39.7 59.5

86 71.2 51.1 76.7



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

100000

80000

60000

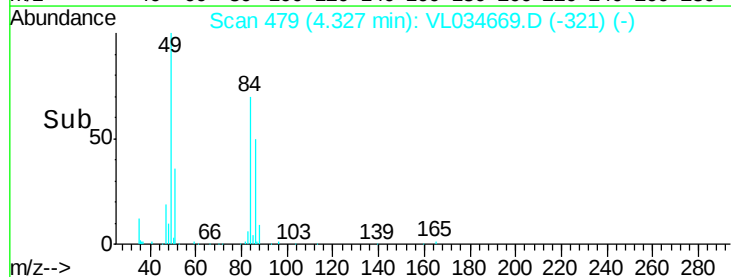
40000

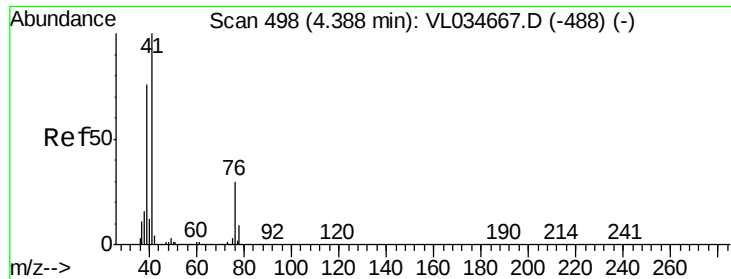
20000

0

Time-->

4.30 4.33 4.35





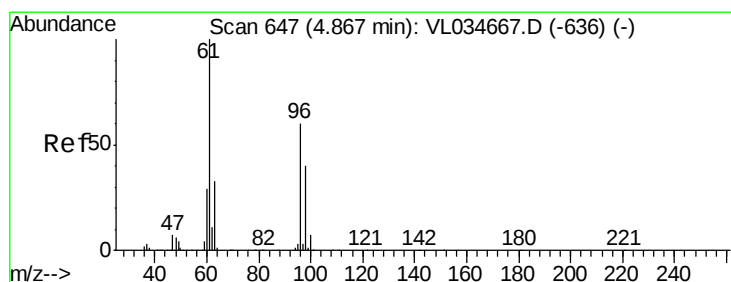
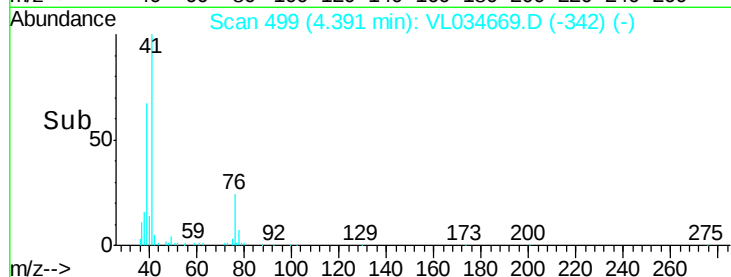
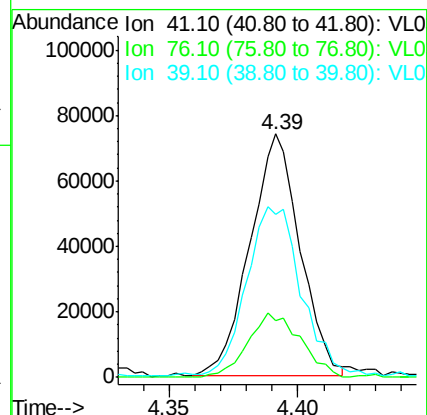
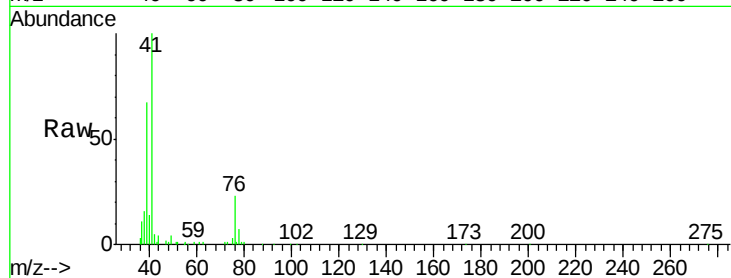
#21
Allvl Chloride
Concen: 0.943 ppbv
RT: 4.39 min Scan# 499
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:	41	Resp:	99817
Ion	Ratio	Lower	Upper
41	100		
76	28.7	23.6	35.4
39	77.8	61.6	92.4

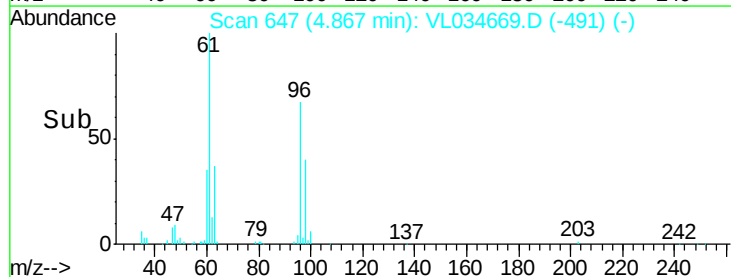
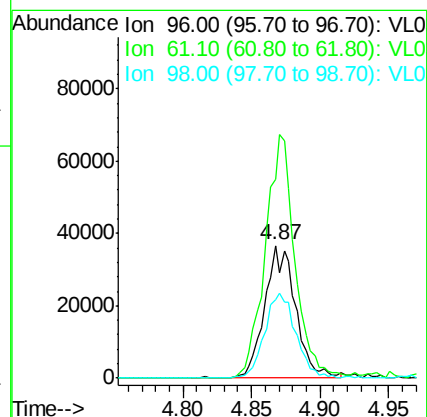
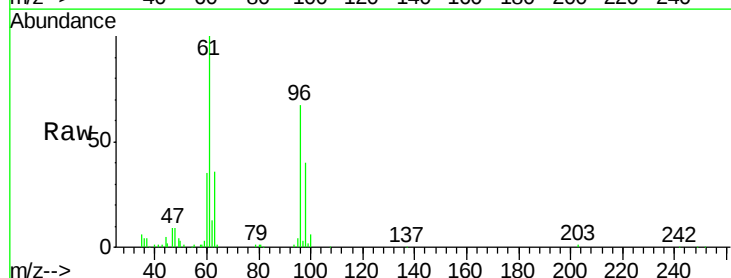
Manual Integrations
APPROVED

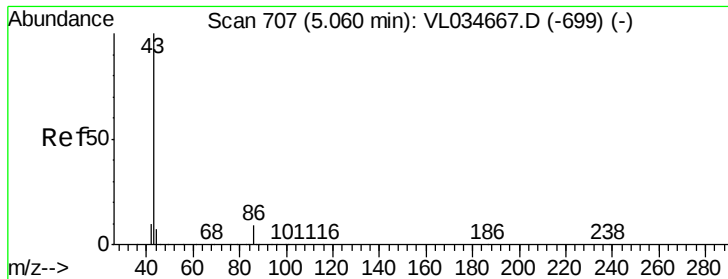
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 0.857 ppbv m
RT: 4.87 min Scan# 647
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion:	96	Resp:	57351
Ion	Ratio	Lower	Upper
96	100		
61	149.5	134.3	201.5
98	59.6	53.8	80.8





#23

Vinyl Acetate

Concen: 1.036 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

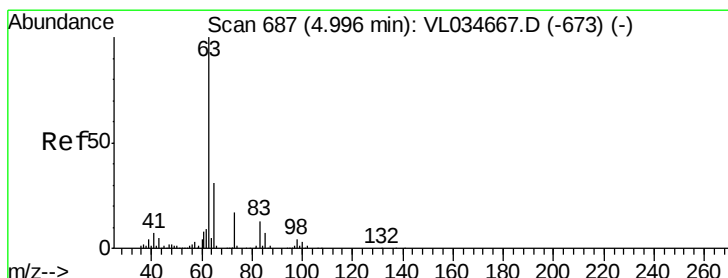
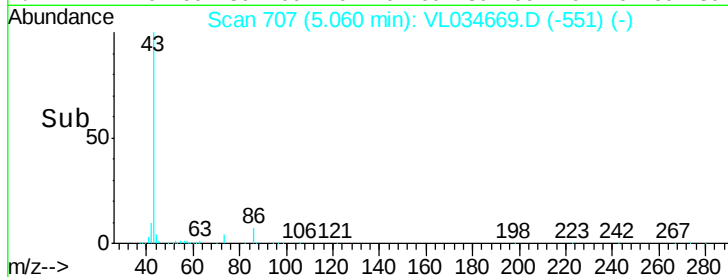
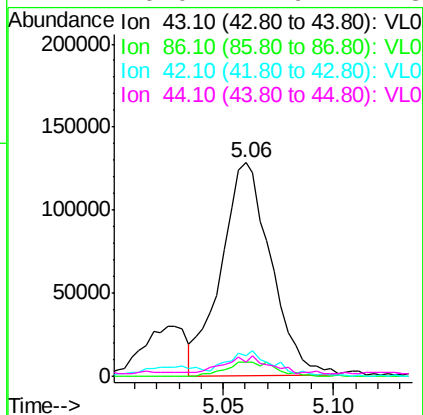
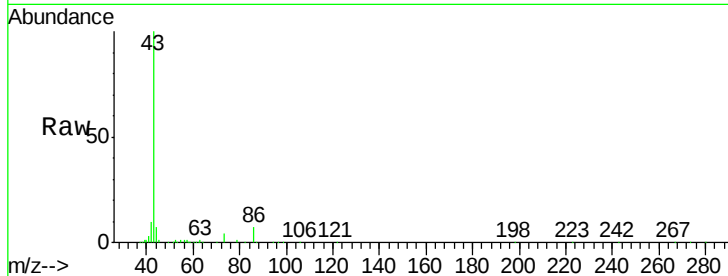
ClientSampleId :

VSTDIC001

Tot Ion	43	Resp	201400
Ion Ratio	Lower	Upper	
43	100		
86	6.4	6.3	9.5
42	9.6	8.6	12.8
44	6.0	4.9	7.3

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 1.102 ppbv

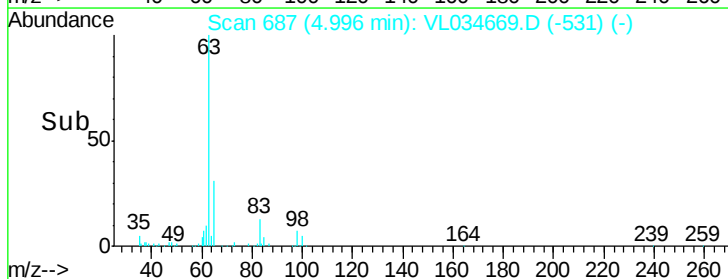
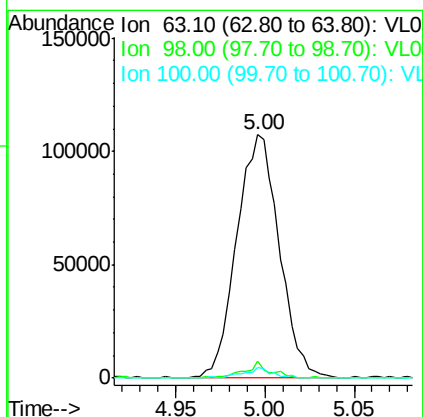
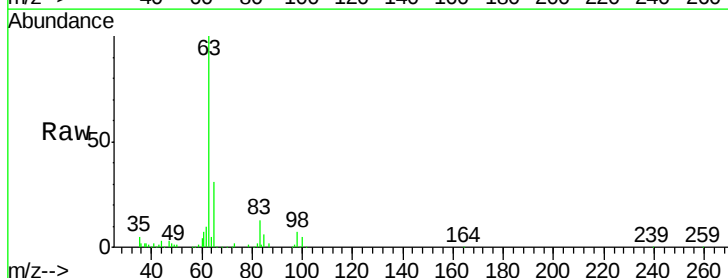
RT: 5.00 min Scan# 687

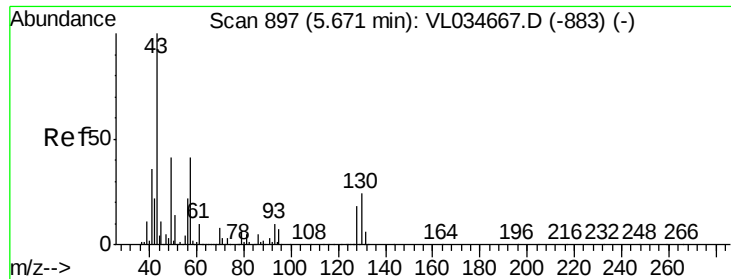
Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion	63	Resp	178892
Ion Ratio	Lower	Upper	
63	100		
98	7.0	2.2	6.6#
100	4.5	1.4	4.2#





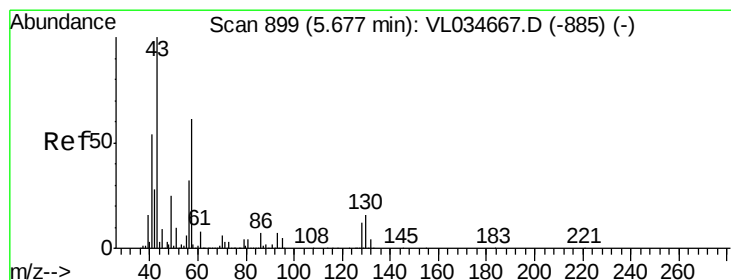
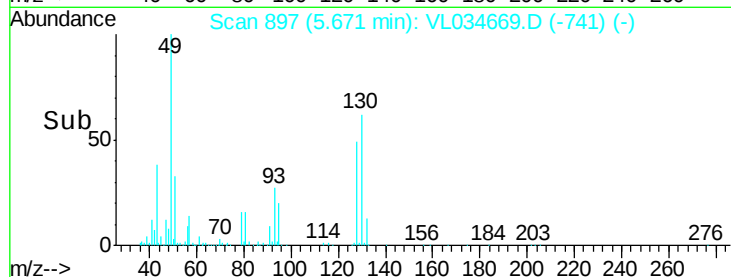
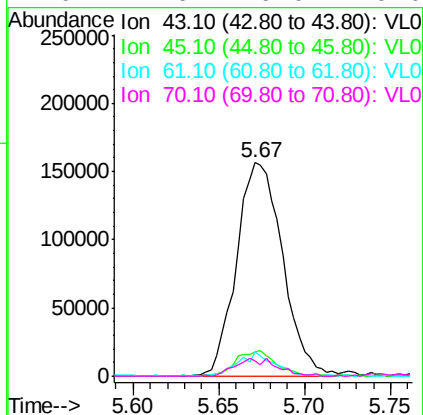
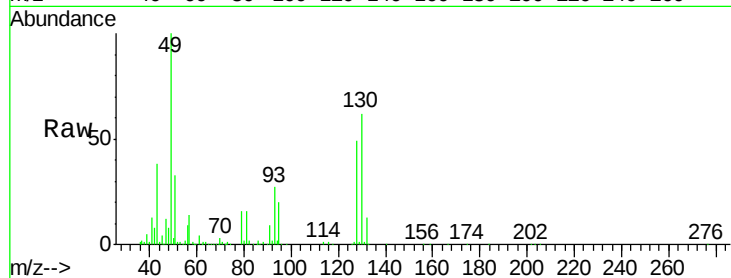
#25
Ethyl Acetate
Concen: 1.053 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.3	12.5
61	9.7	7.8	11.6
70	7.6	6.0	9.0

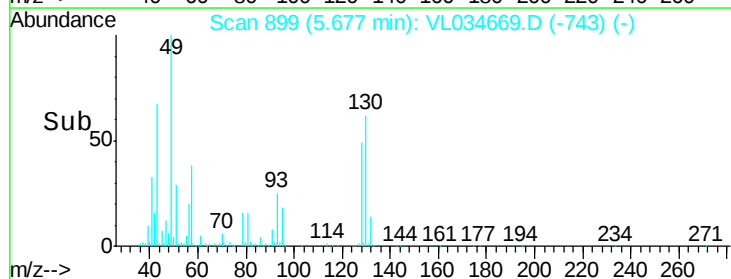
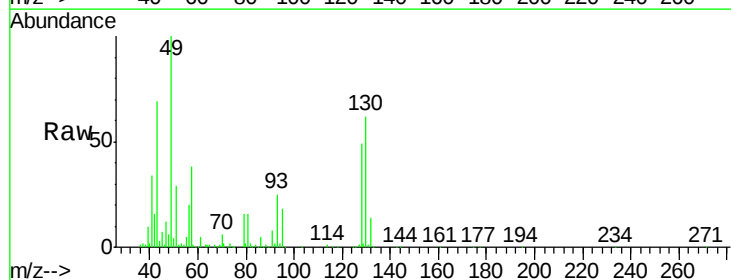
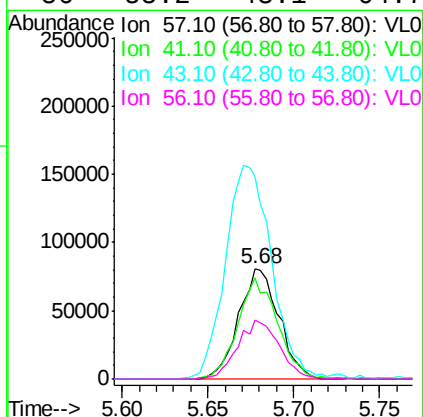
Manual Integrations
APPROVED

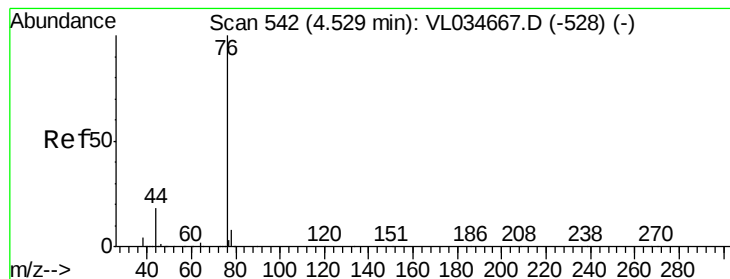
MMDadoda
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#26
Hexane
Concen: 1.134 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.4	72.0	108.0
43	224.4	178.7	268.1
56	55.2	43.1	64.7





#27

Carbon Disulfide

Concen: 0.898 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

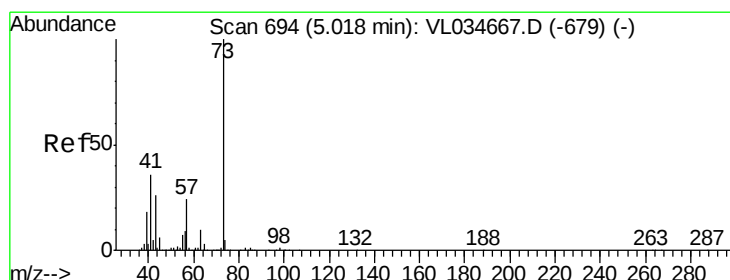
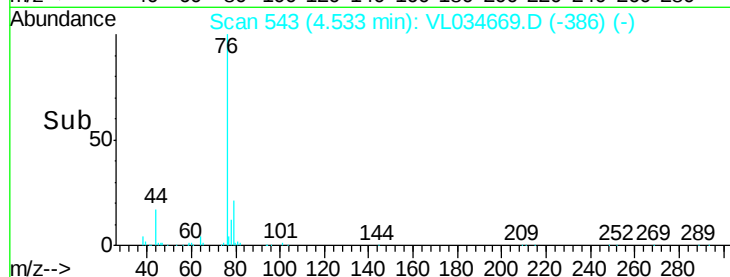
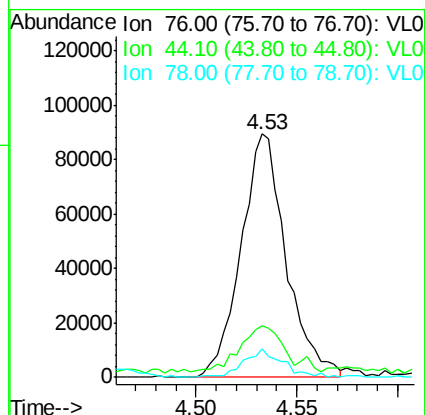
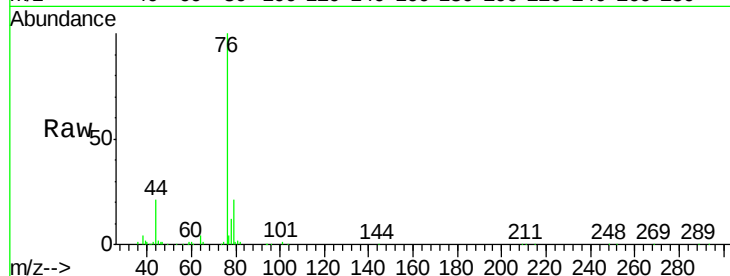
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	140004
Ion	Ratio	Lower	Upper
76	100		
44	21.6	15.0	22.4
78	10.8	7.7	11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.946 ppbv m

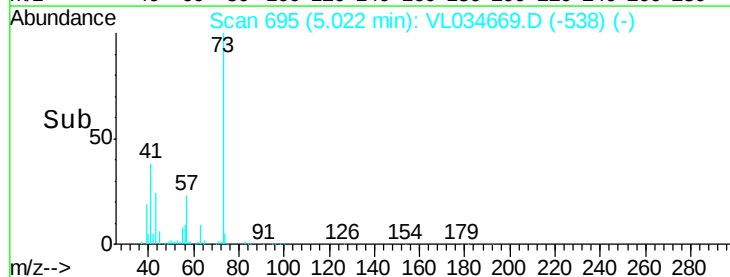
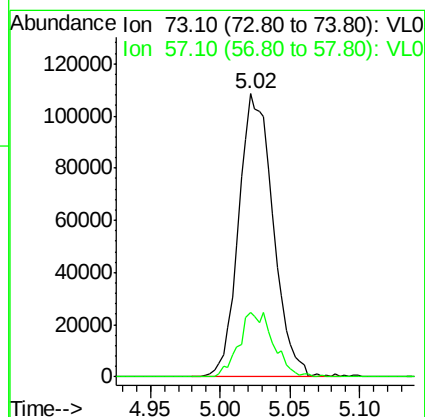
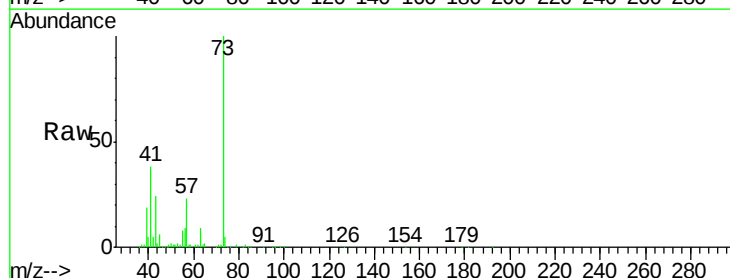
RT: 5.02 min Scan# 695

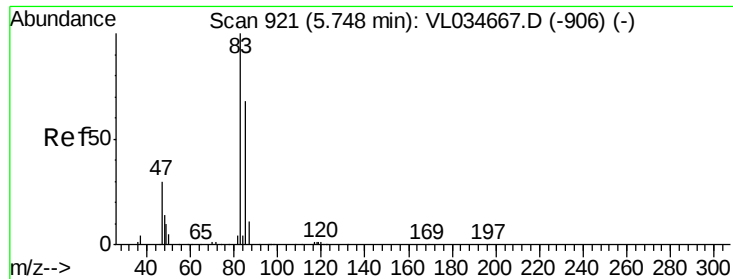
Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion:	73	Resp:	186465
Ion	Ratio	Lower	Upper
73	100		
57	22.8	18.7	28.1





#29

Chloroform

Concen: 1.026 ppbv

RT: 5.75 min Scan# 920

Delta R.T. -0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 209754

Ion Ratio Lower Upper

83 100

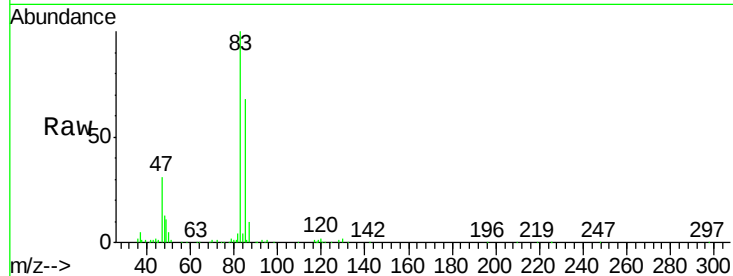
85 67.6 54.7 82.1

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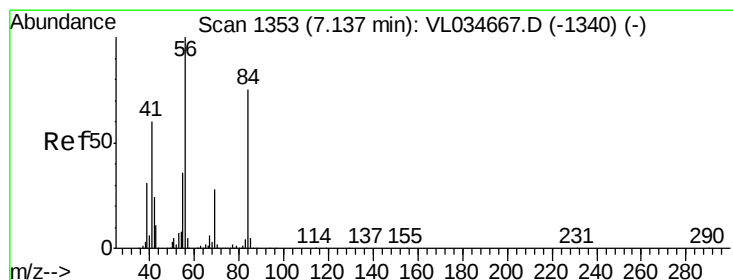
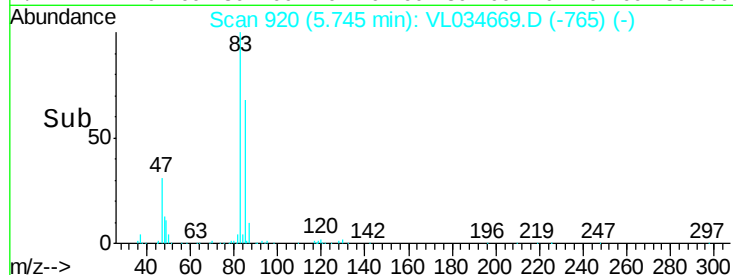
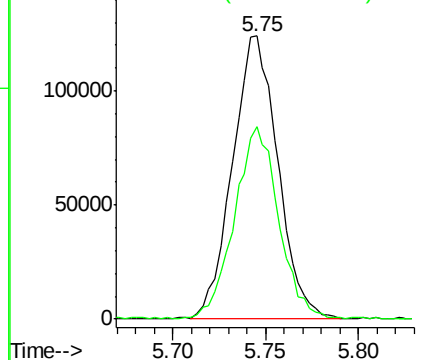
MMDadoda

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 1.104 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

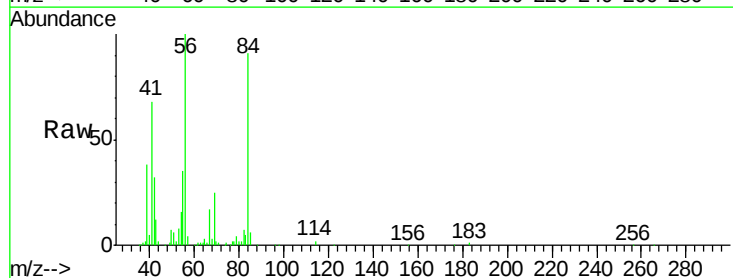
Tgt Ion: 84 Resp: 94561

Ion Ratio Lower Upper

84 100

56 128.4 113.4 170.2

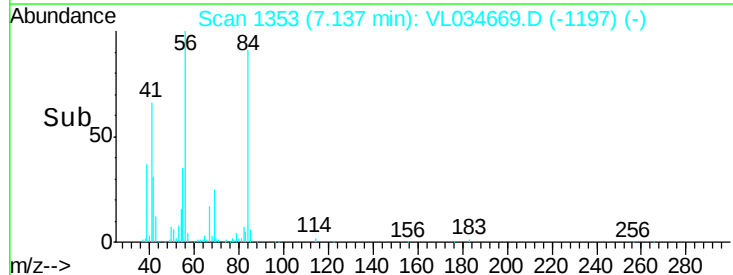
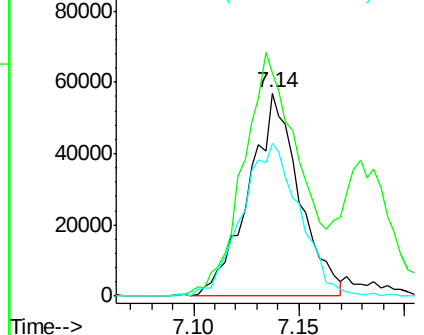
41 86.4 69.5 104.3

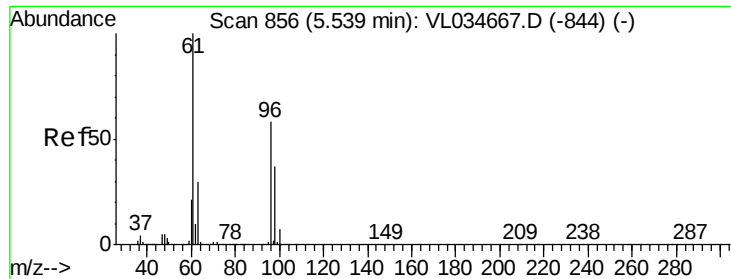


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

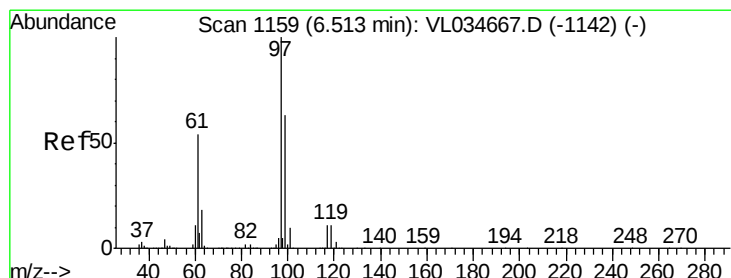
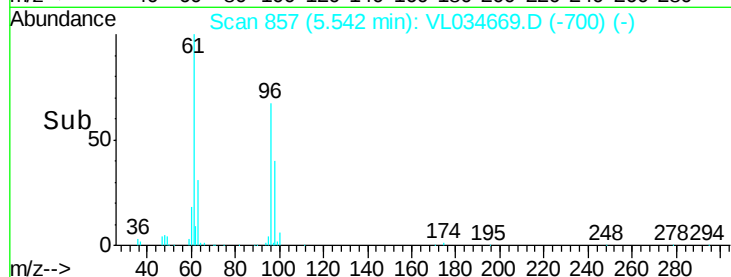
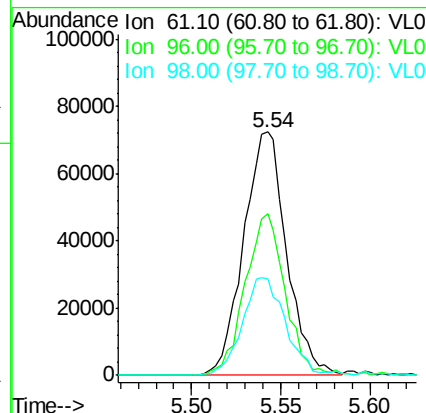
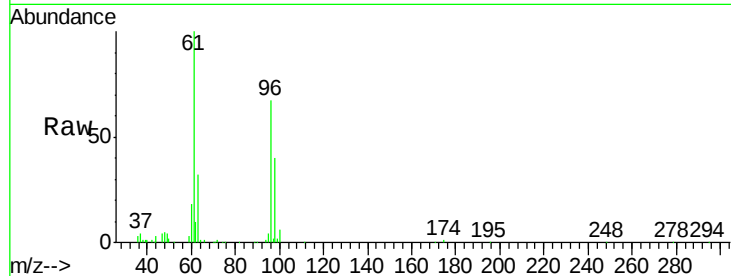
cis-1,2-Dichloroethene
Concen: 1.010 ppbv
RT: 5.54 min Scan# 857
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.6	46.6	69.8
98	39.5	29.3	43.9

Manual Integrations
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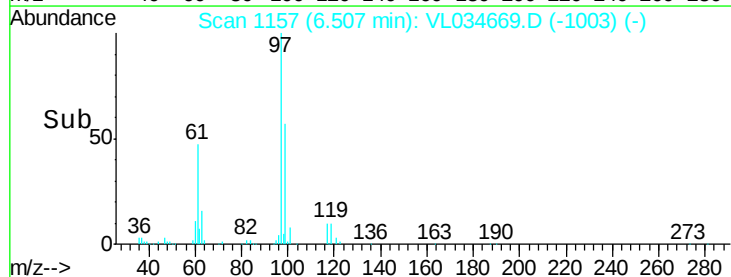
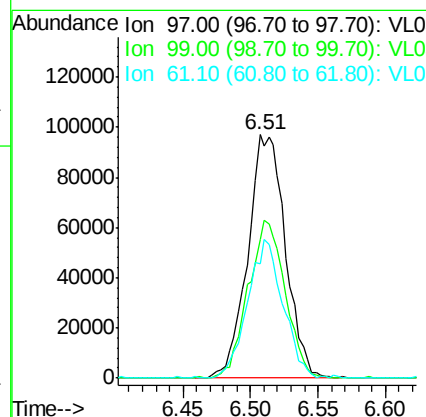
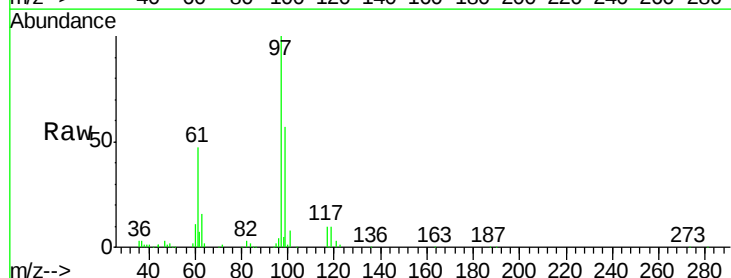
MMDadoda
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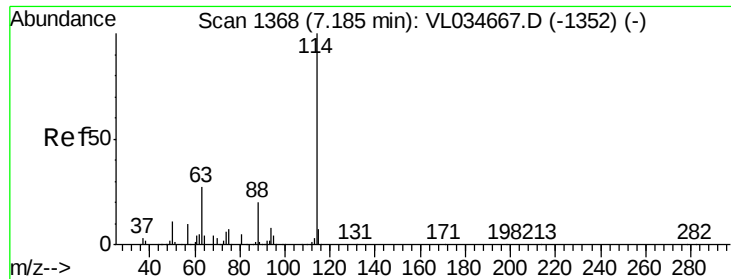


#32

1,1,1-Trichloroethane
Concen: 0.854 ppbv m
RT: 6.51 min Scan# 1157
Delta R.T. -0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.2	78.2
61	54.2	44.5	66.7





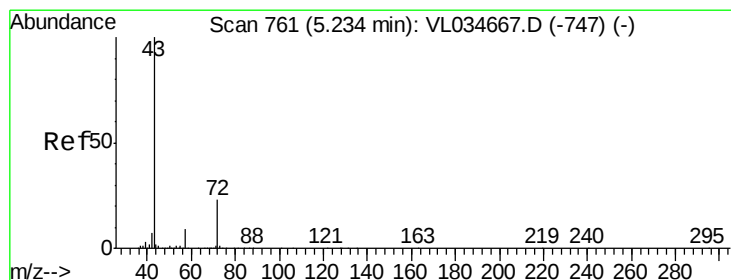
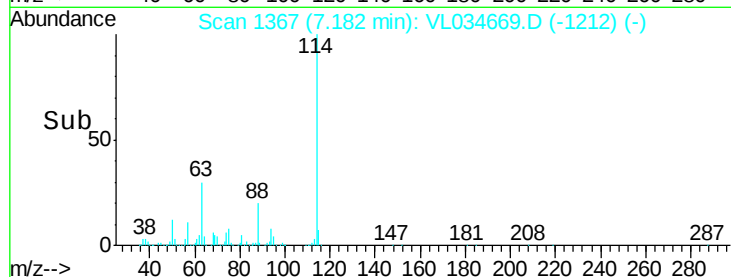
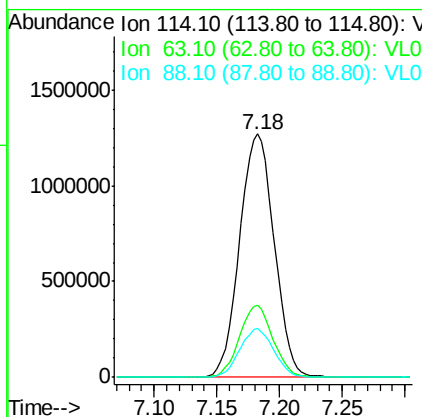
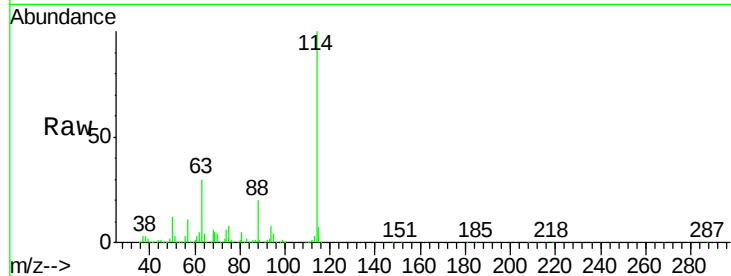
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.9	23.1	34.7
88	19.7	15.6	23.4

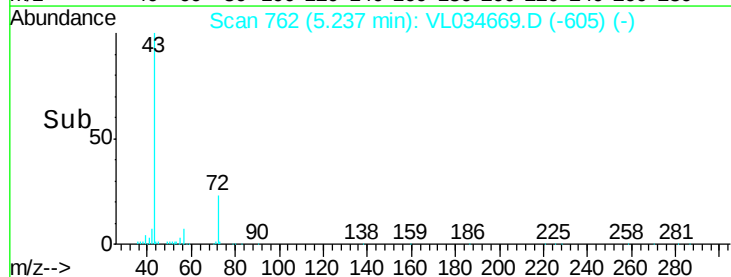
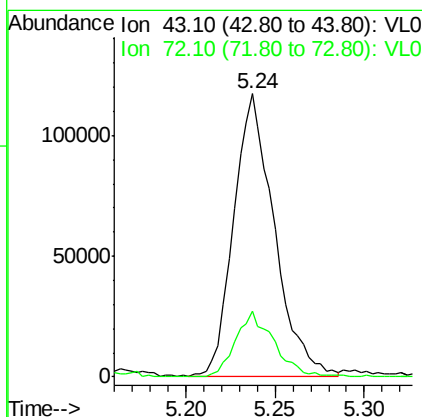
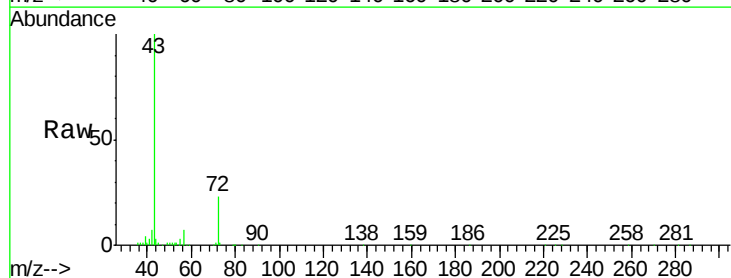
Manual Integrations
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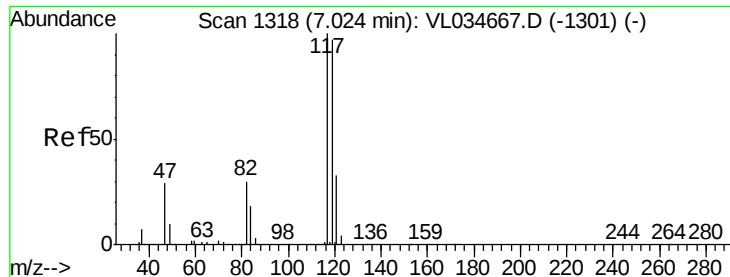
MMDadoda
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#34
 2-Butanone
 Concen: 1.040 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.8	26.8





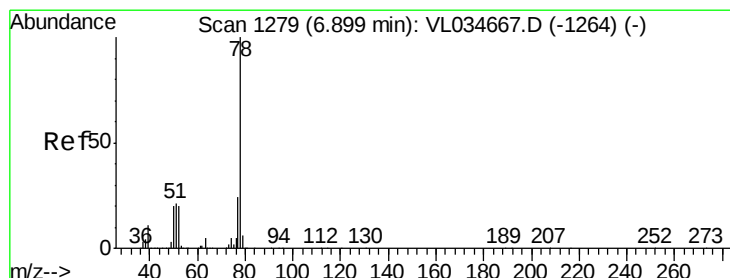
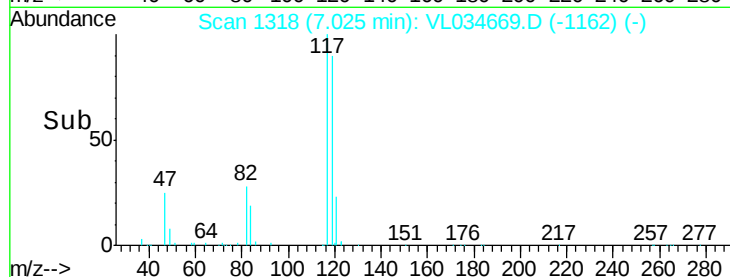
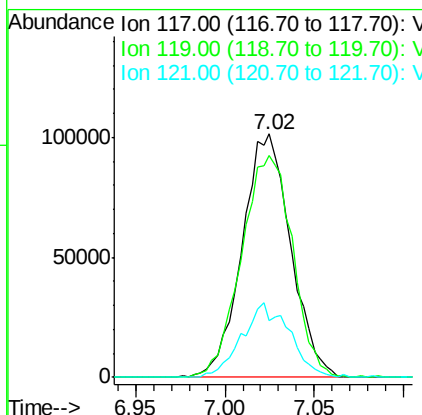
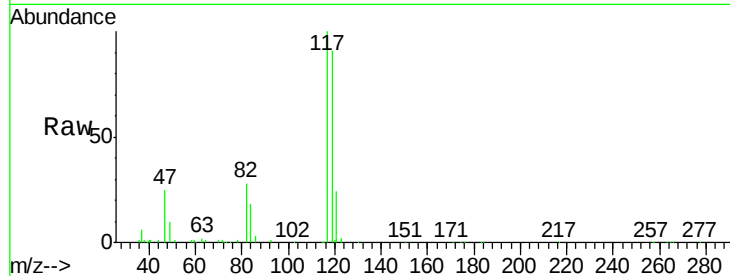
#35
Carbon Tetrachloride
Concen: 0.827 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
119	90.9	77.2	115.8
121	23.3	26.1	39.1#

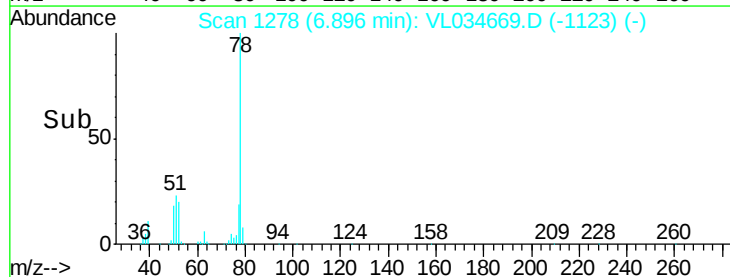
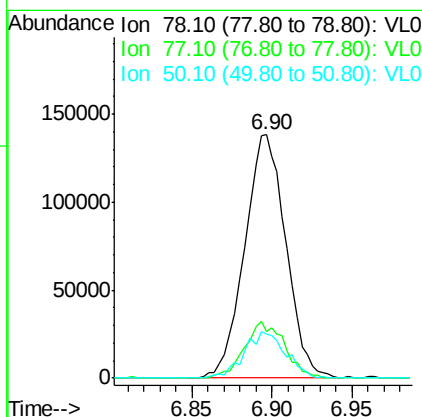
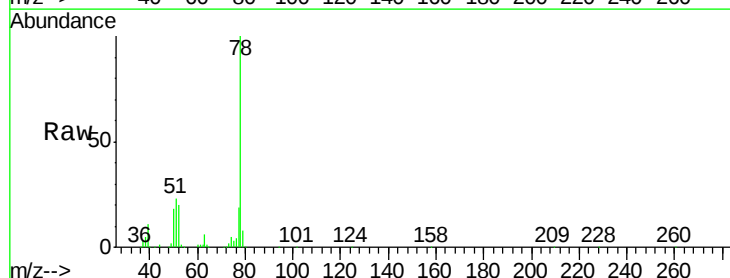
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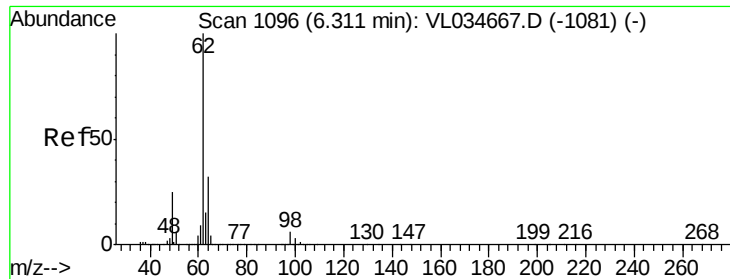
MMDadoda
2/26/2020 12:38:43 PM



#36
Benzene
Concen: 1.124 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.2	19.2	28.8
50	18.0	15.9	23.9





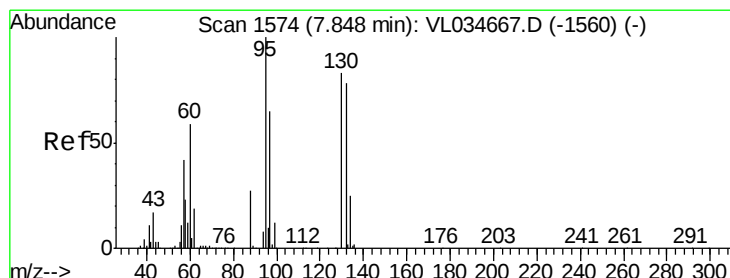
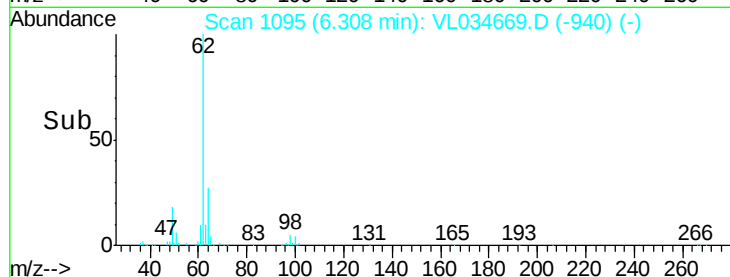
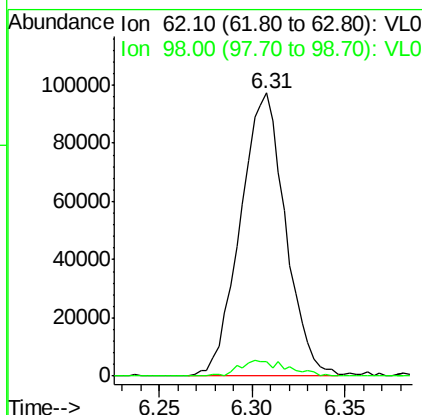
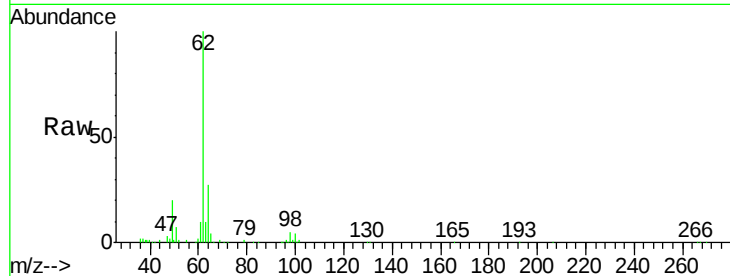
#37
 1,2-Dichloroethane
 Concen: 0.912 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.0	4.5	6.7

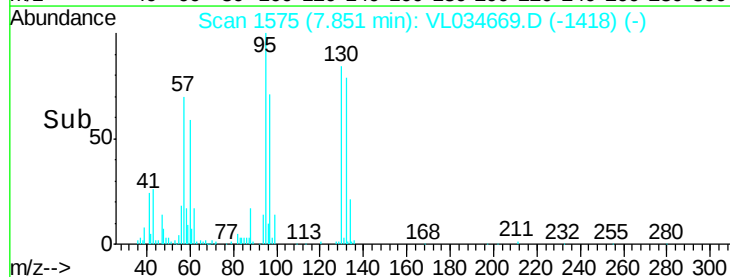
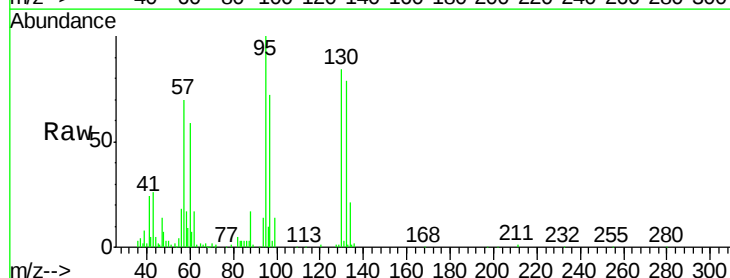
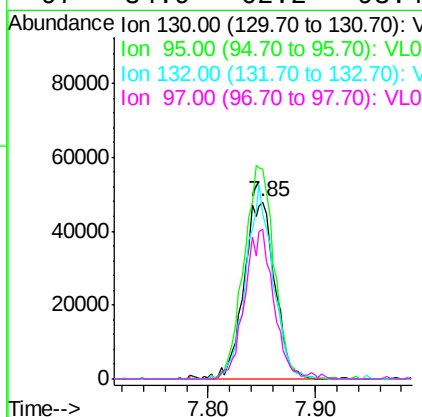
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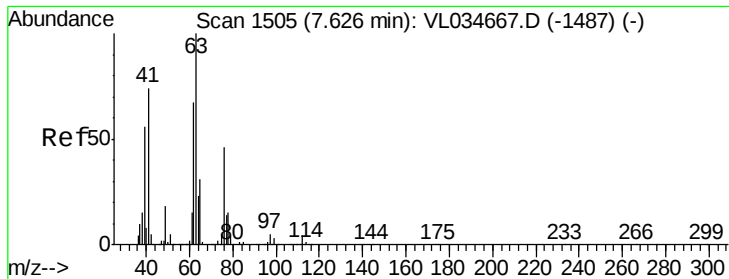
MMDadoda
 2/26/2020 12:38:43 PM



#38
 Trichloroethene
 Concen: 1.054 ppbv m
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.7	96.1	144.1
132	93.3	74.6	112.0
97	84.9	62.2	93.4





#39

1,2-Dichloropropane

Concen: 1.118 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. -0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

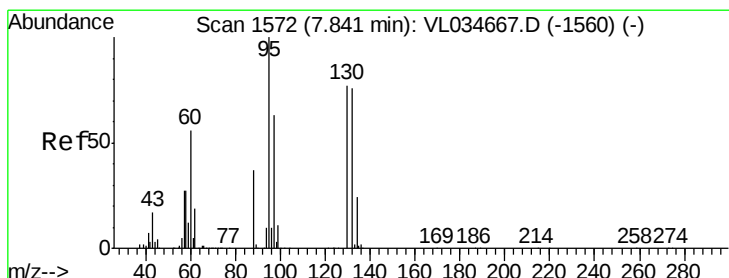
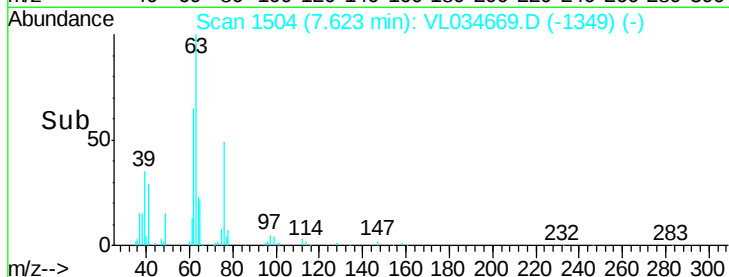
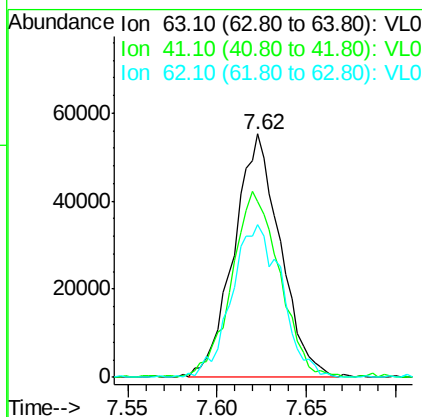
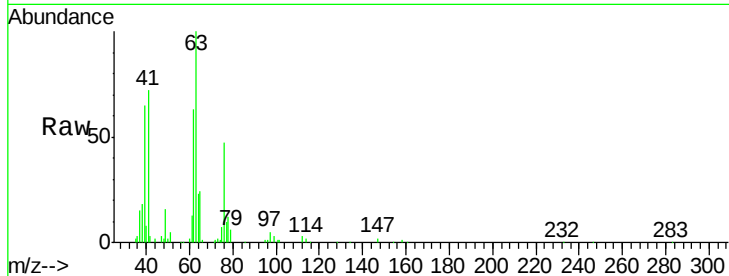
ClientSampleId :

VSTDIC001

Tot Ion:	63	Resp:	100459
Ion	Ratio	Lower	Upper
63	100		
41	71.2	58.9	88.3
62	62.9	53.8	80.8

Manual Integrations
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#40

1,4-Dioxane

Concen: 1.146 ppbv m

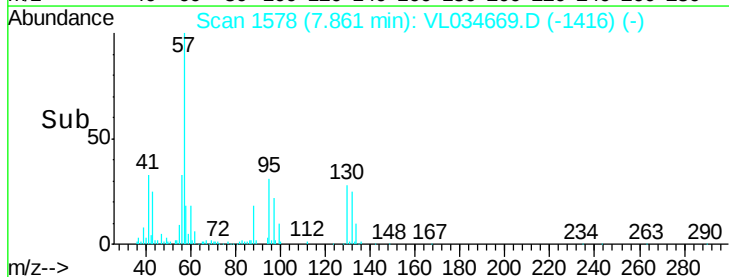
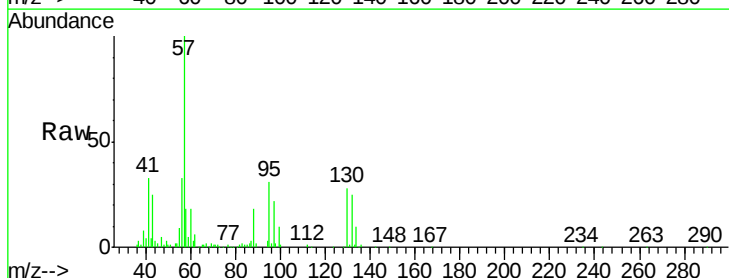
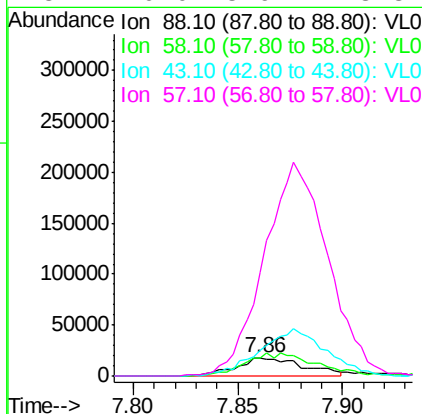
RT: 7.86 min Scan# 1578

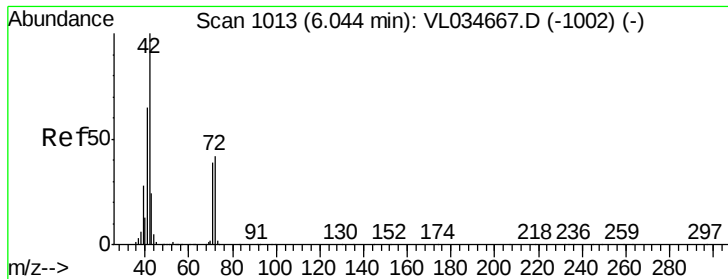
Delta R.T. 0.02 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion:	88	Resp:	39604
Ion	Ratio	Lower	Upper
88	100		
58	146.1	108.6	163.0
43	0.0	208.1	312.1#
57	0.0	879.1	1318.7#





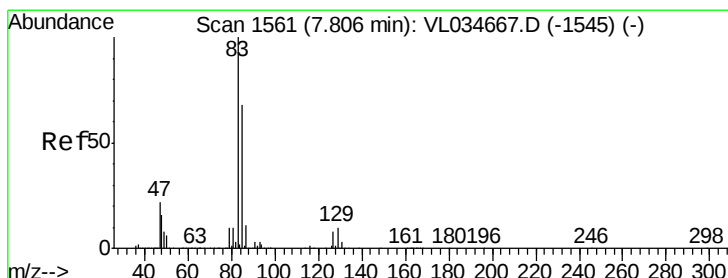
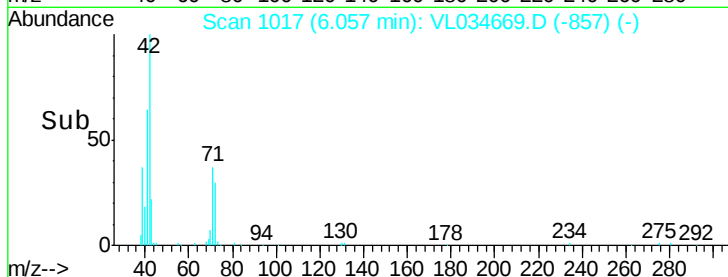
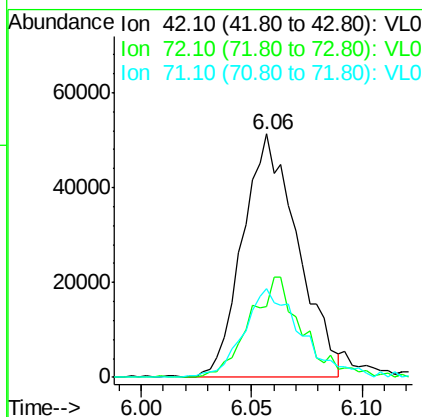
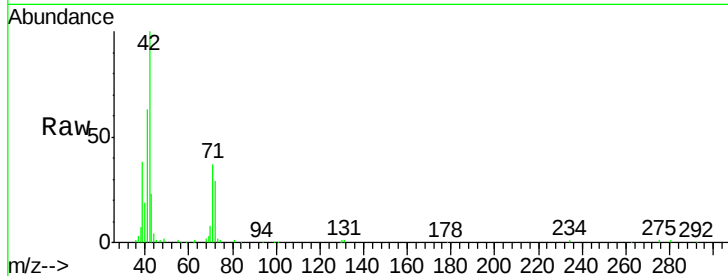
#41
Tetrahydrofuran
Concen: 0.963 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.7	31.5	47.3
71	38.5	30.3	45.5

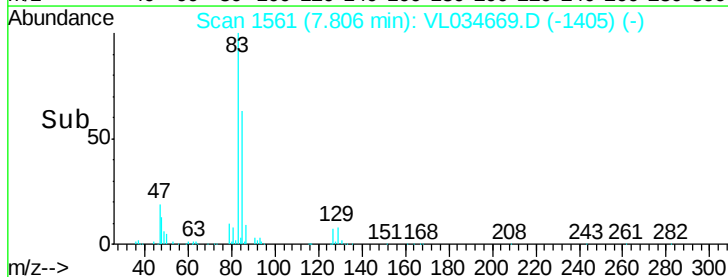
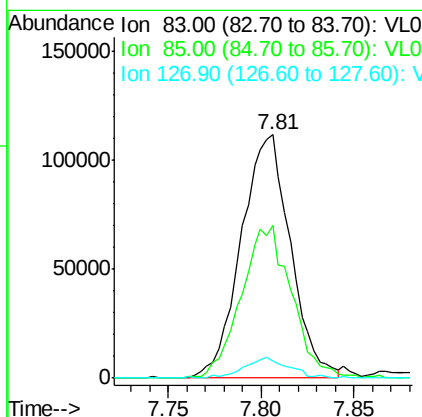
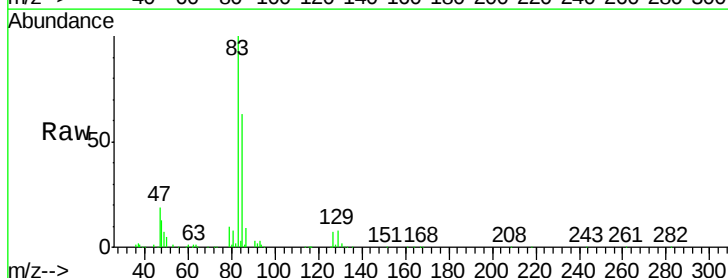
Manual Integrations
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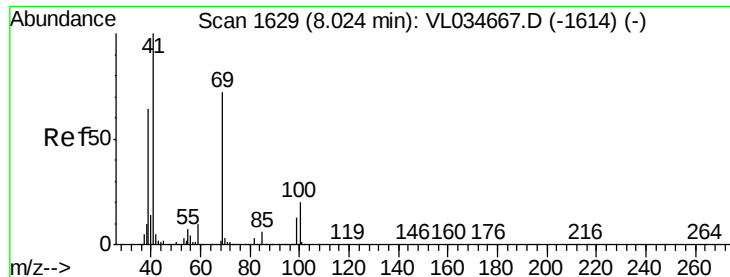
MMDadoda
2/26/2020 12:38:43 PM



#42
Bromodichloromethane
Concen: 0.930 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.7	54.2	81.4
127	6.5	6.2	9.4





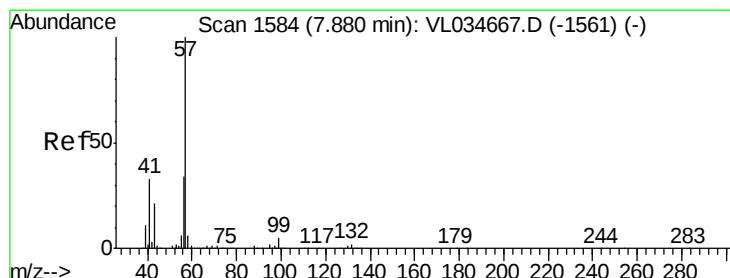
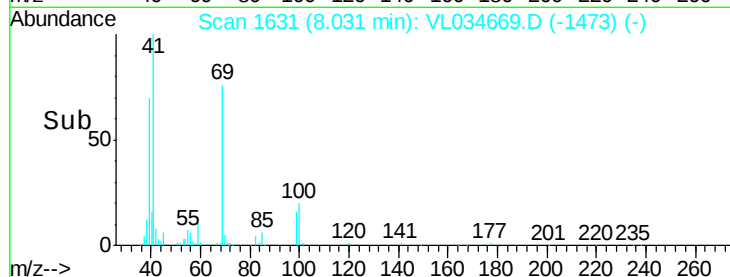
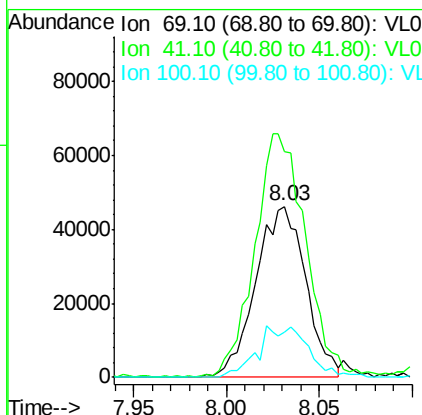
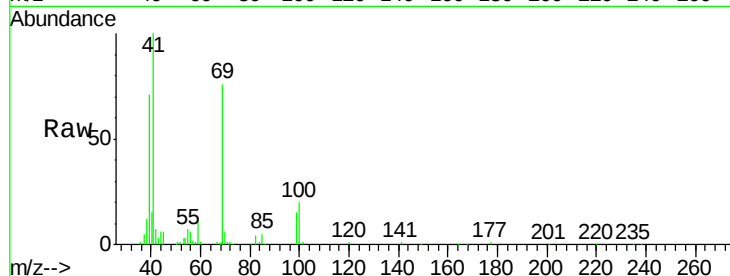
#43
Methvl Methacrilate
Concen: 0.992 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
69	100		
41	146.5	116.4	174.6
100	30.2	24.3	36.5

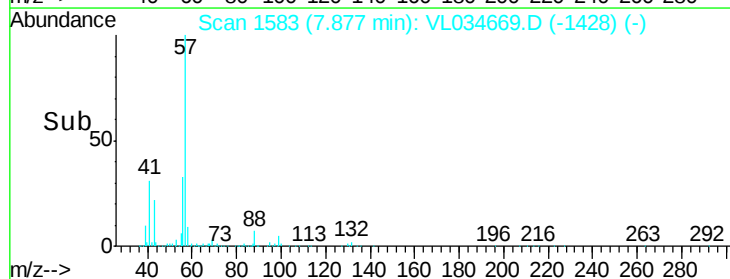
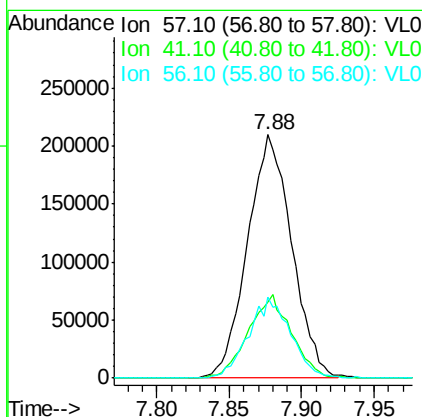
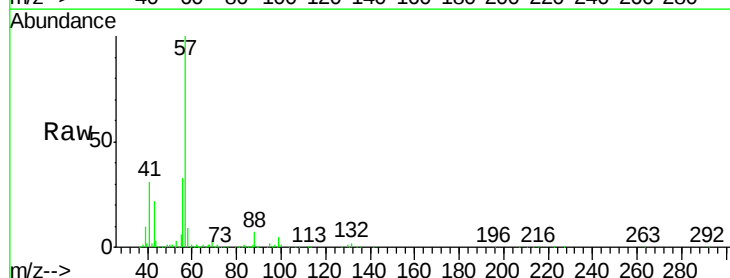
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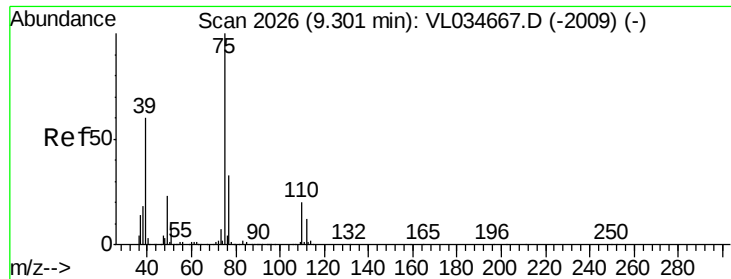
MMDadoda
2/26/2020 12:38:43 PM



#44
2,2,4-Trimethylpentane
Concen: 1.134 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.5	26.1	39.1
56	31.6	25.4	38.2





#45

t-1,3-Dichloropropene

Concen: 0.837 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. -0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 95594

Ion Ratio Lower Upper

75 100

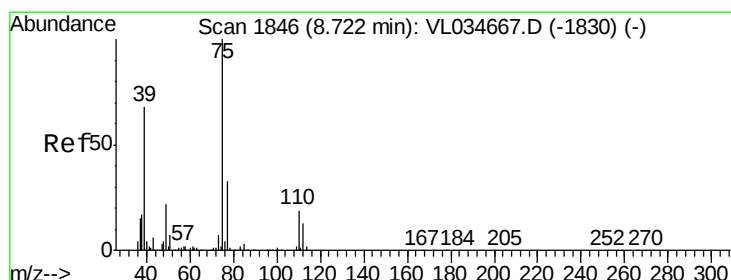
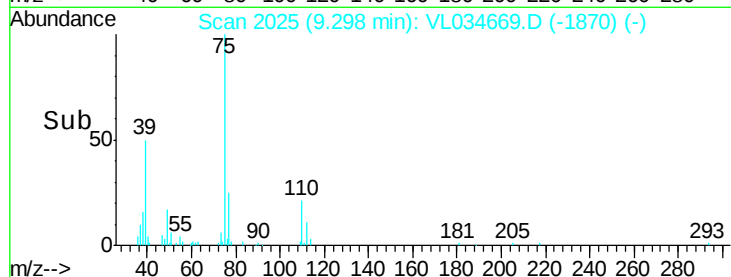
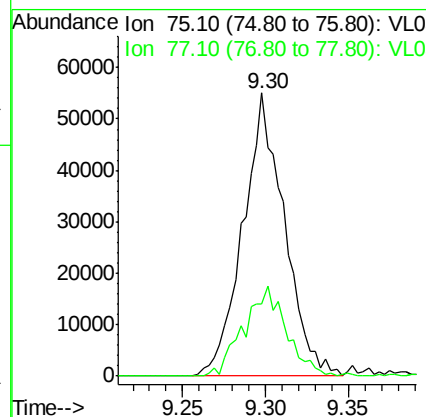
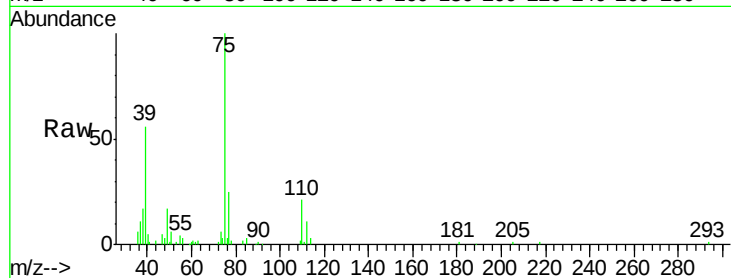
77 25.4 26.3 39.5#

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2/26/2020 12:38:43 PM



#46

cis-1,3-Dichloropropene

Concen: 0.880 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

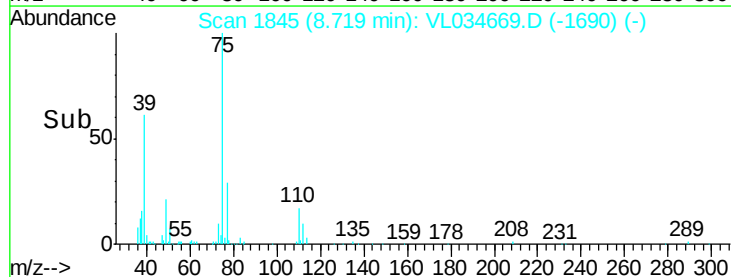
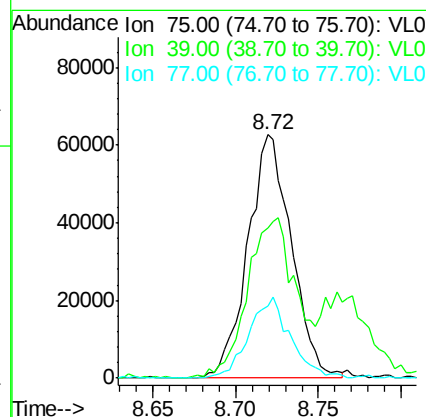
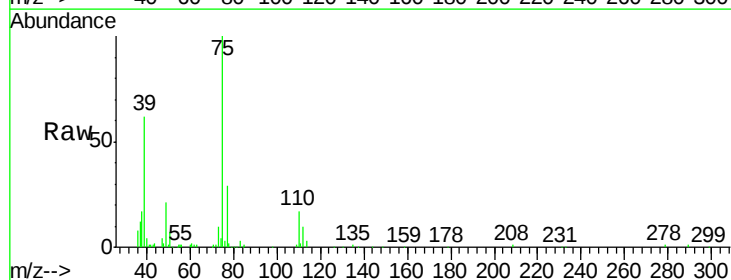
Tgt Ion: 75 Resp: 114263

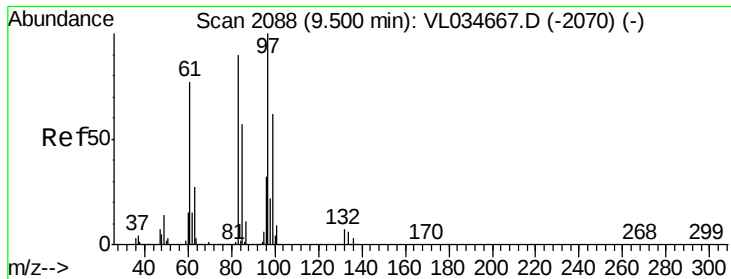
Ion Ratio Lower Upper

75 100

39 61.3 54.7 82.1

77 29.4 26.6 40.0





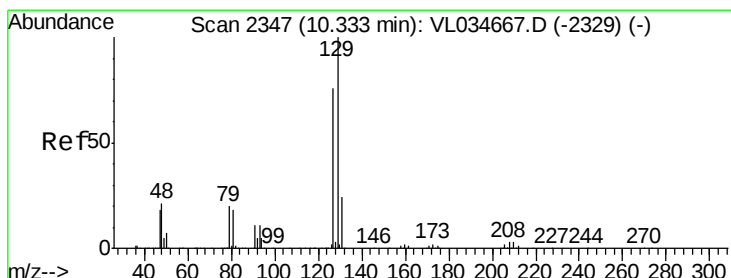
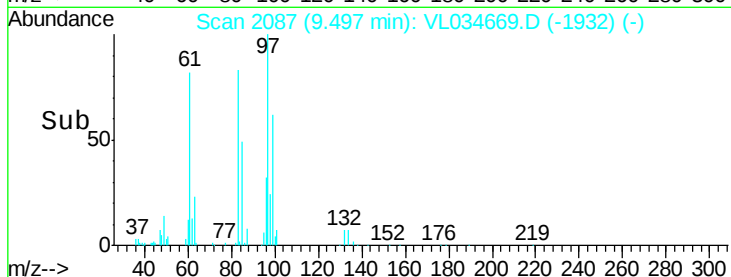
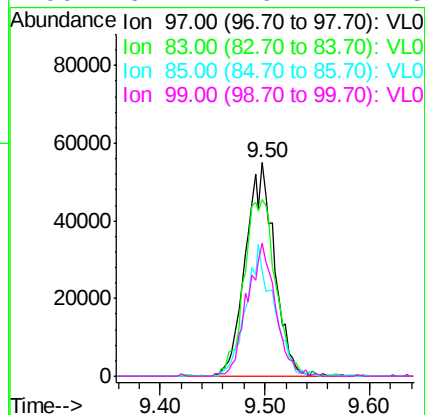
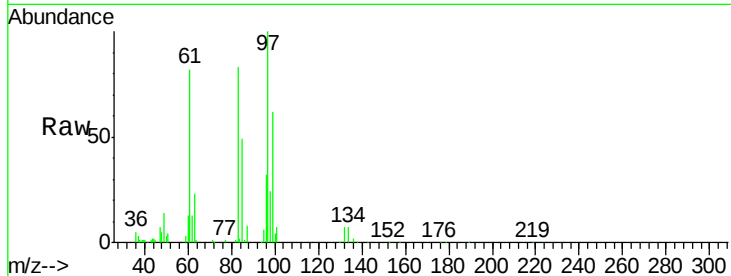
#47
 1,1,2-Trichloroethane
 Concen: 1.086 ppbv m
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		105741		
83	82.9	72.3	108.5		
85	49.3	45.8	68.8		
99	62.1	49.7	74.5		

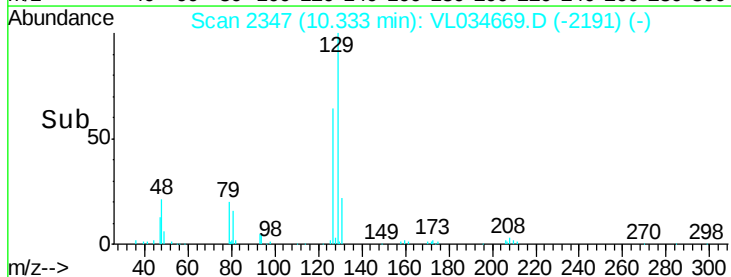
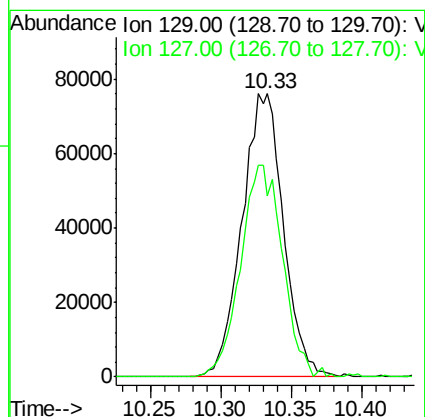
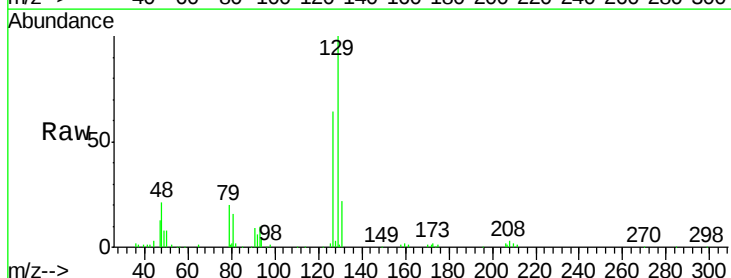
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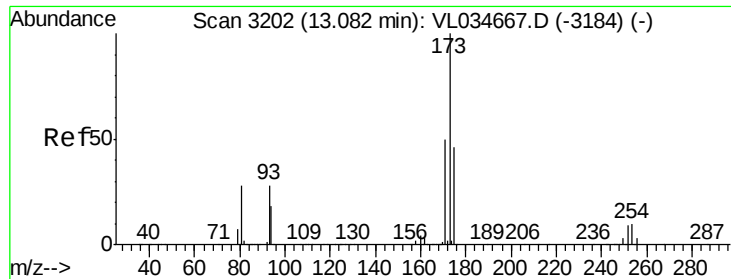
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 2/26/2020 12:38:43 PM



#48
 Dibromochloromethane
 Concen: 0.876 ppbv
 RT: 10.33 min Scan# 2347
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		156340		
127	75.8	39.1	117.3		





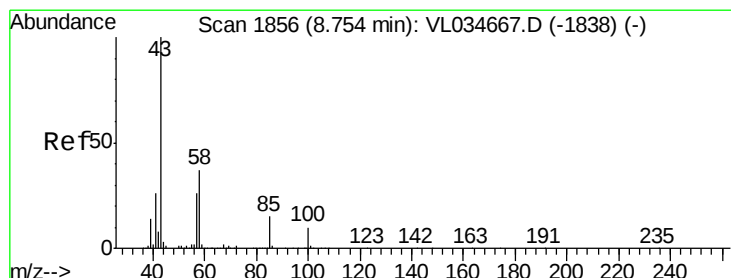
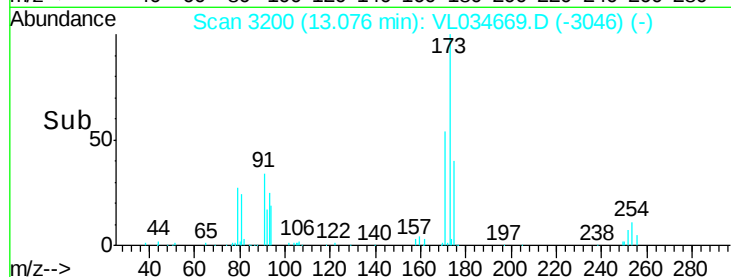
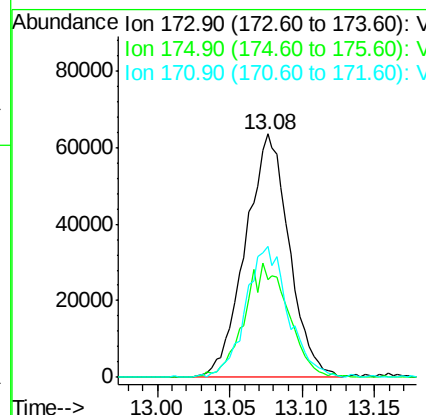
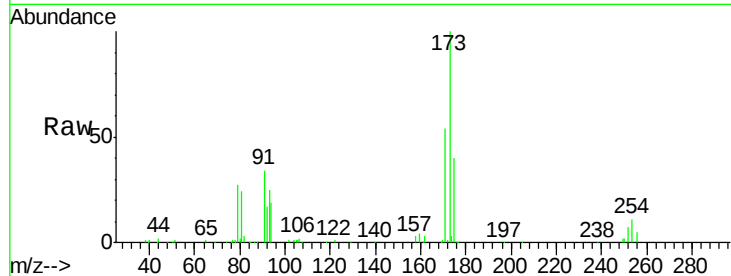
#49
Bromoform
Concen: 0.852 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. -0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	39.0	58.4
171	52.5	41.0	61.6

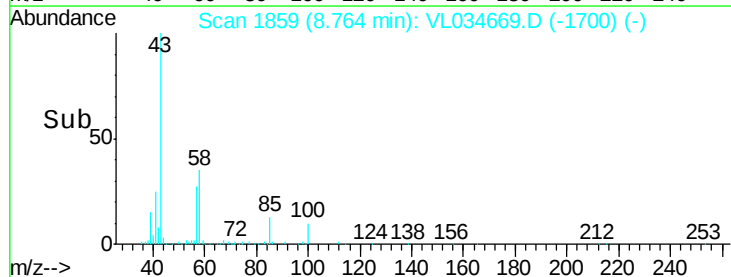
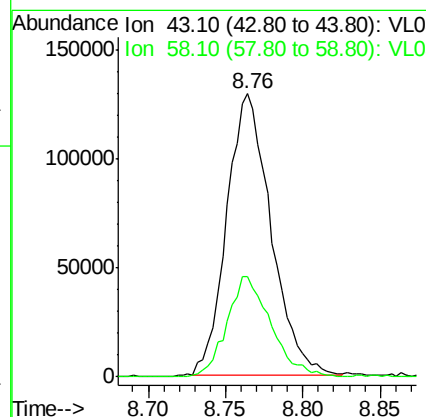
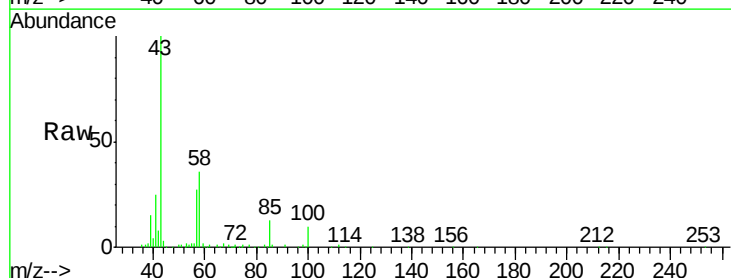
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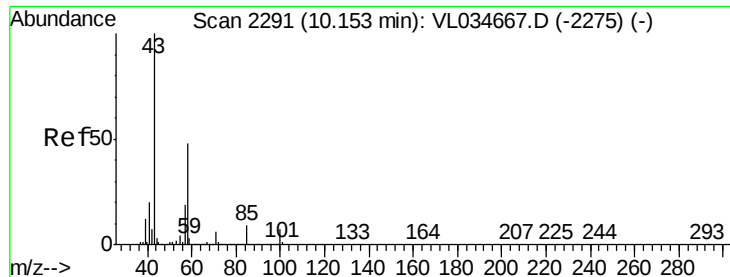
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2/26/2020 12:38:43 PM



#50
4-Methyl-2-Pentanone
Concen: 1.009 ppbv
RT: 8.76 min Scan# 1859
Delta R.T. 0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.5	44.3





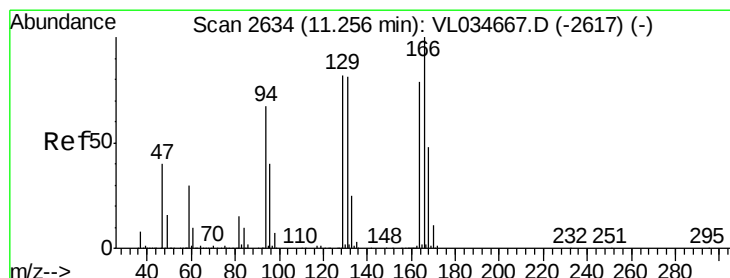
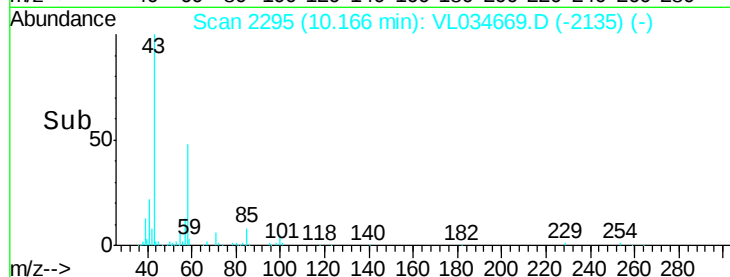
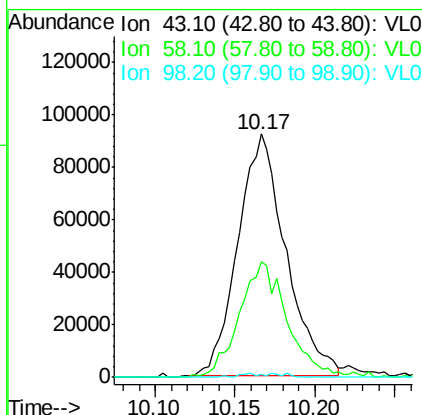
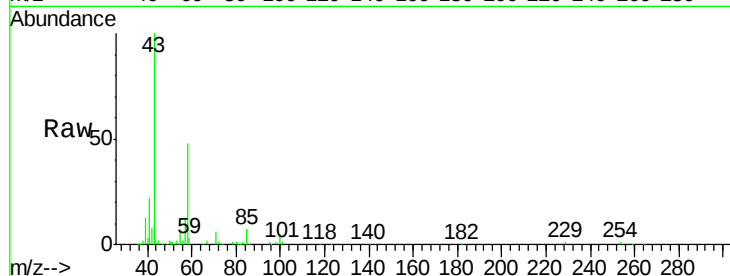
#51
2-Hexanone
Concen: 0.952 ppbv
RT: 10.17 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.1	38.8	58.2
98	1.3	0.3	0.5#

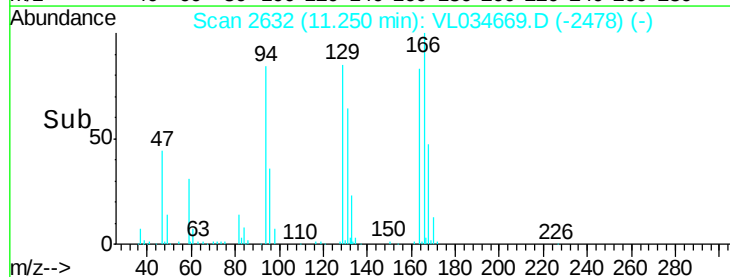
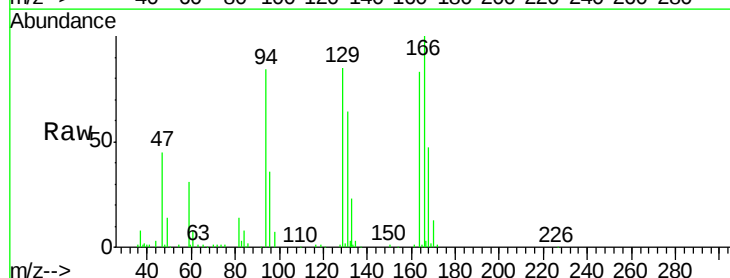
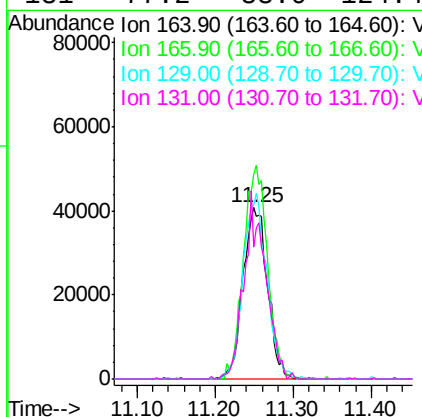
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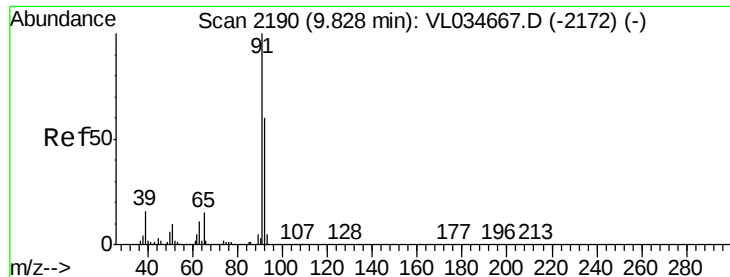
MMDadoda
2/26/2020 12:38:43 PM



#52
Tetrachloroethene
Concen: 1.012 ppbv m
RT: 11.25 min Scan# 2632
Delta R.T. -0.01 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.0	101.4	152.2
129	101.7	83.5	125.3
131	77.2	83.0	124.4#





#53

Toluene

Concen: 1.056 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 251417

Ion Ratio Lower Upper

91 100

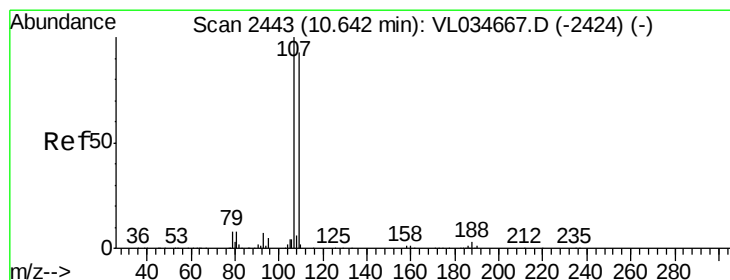
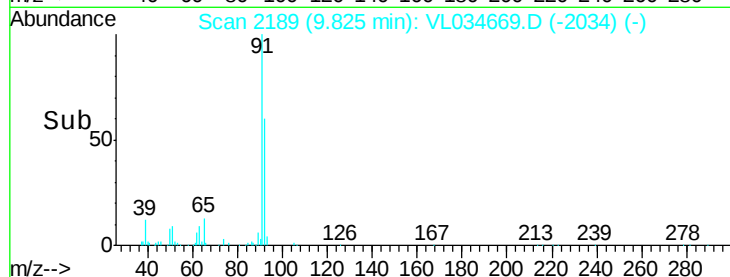
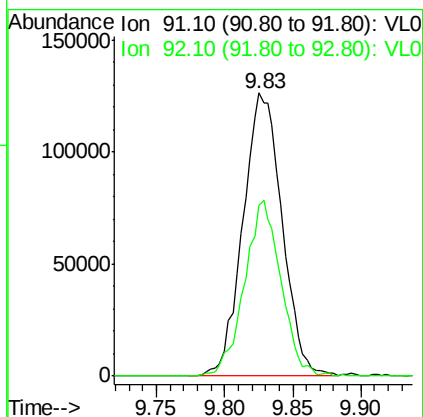
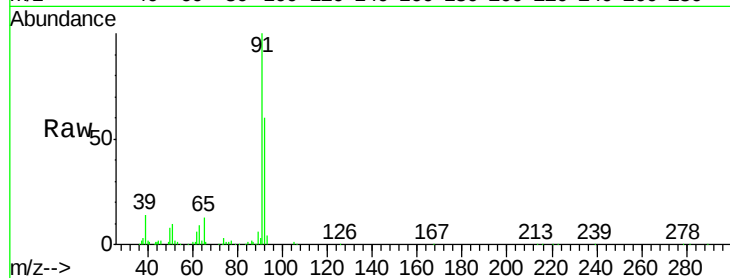
92 57.7 48.2 72.2

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2/26/2020 12:38:43 PM



#54

1,2-Dibromoethane

Concen: 0.978 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL034669.D

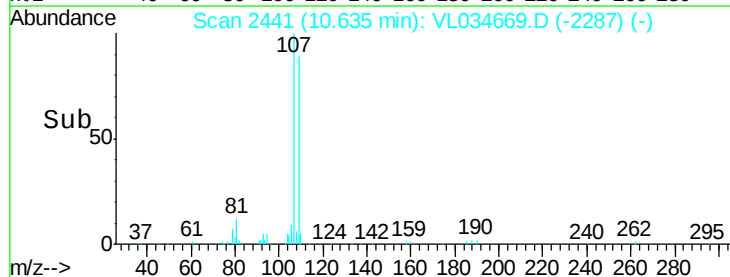
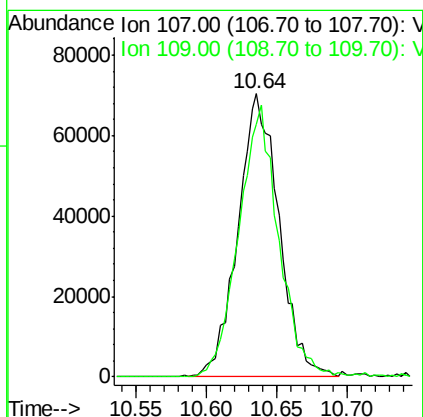
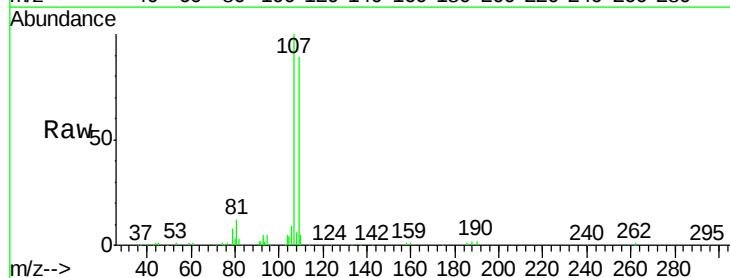
Acq: 25 Feb 2020 12:35

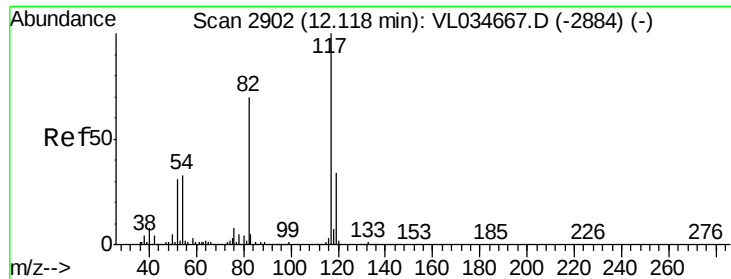
Tgt Ion: 107 Resp: 142610

Ion Ratio Lower Upper

107 100

109 89.4 74.2 111.4





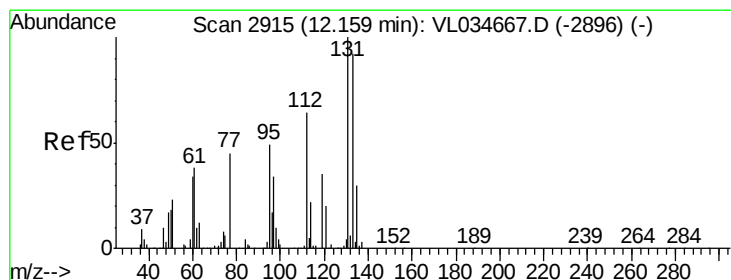
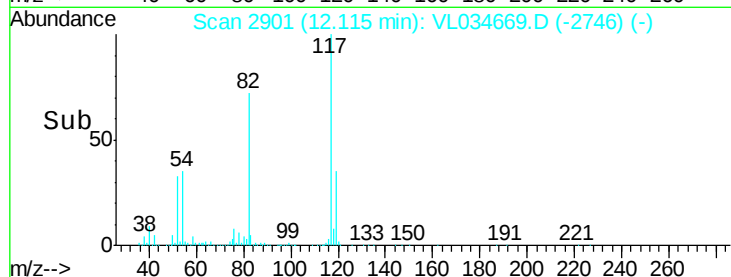
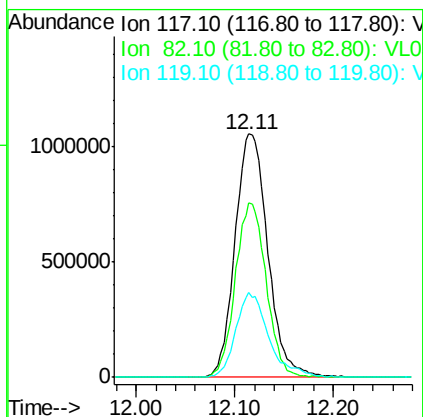
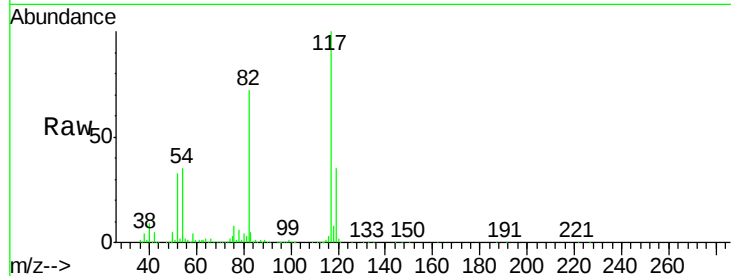
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.8	54.2	81.4
119	35.2	44.2	66.2#

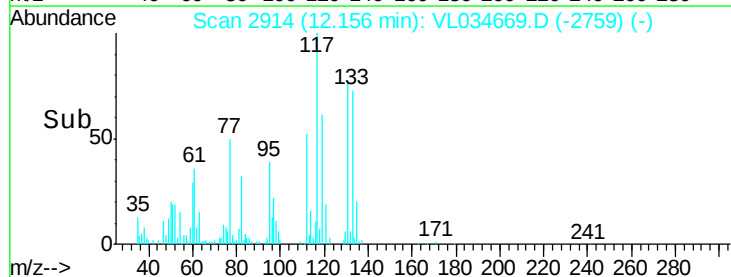
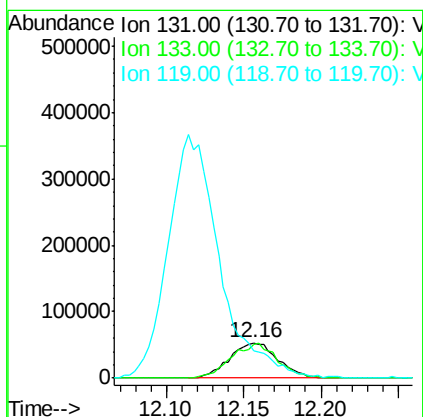
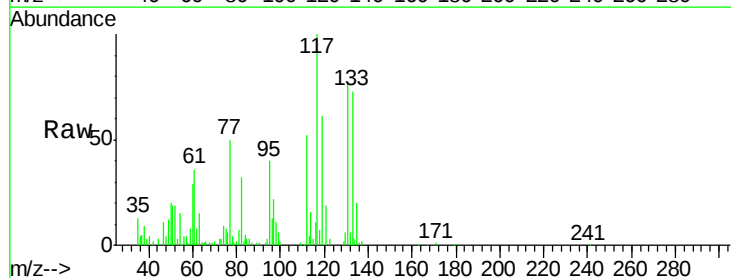
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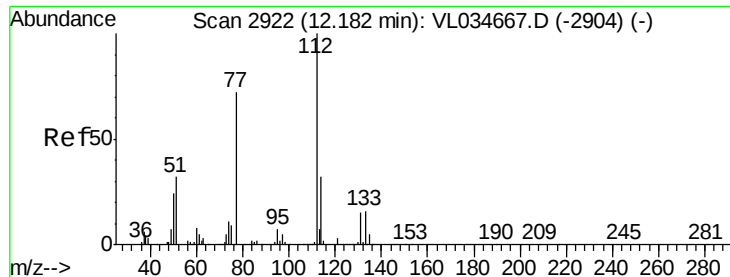
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2/26/2020 12:38:43 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.965 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	77.0	115.4
119	738.5	114.8	172.2#





#57

Chlorobenzene

Concen: 1.130 ppbv m

RT: 12.18 min Scan# 2921

Delta R.T. -0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

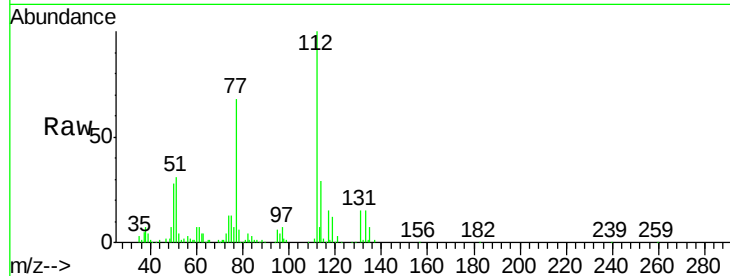
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	226585
Ion Ratio	Lower	Upper	
112	100		
77	67.5	58.9	88.3
114	28.6	29.1	35.5#

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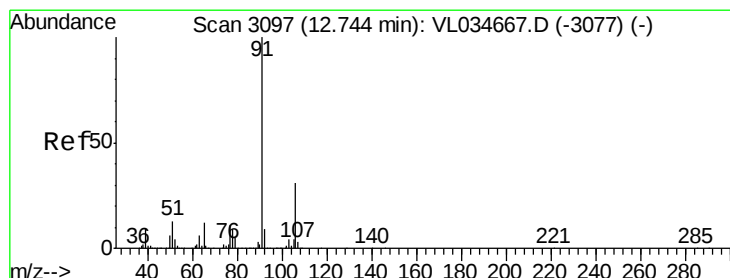
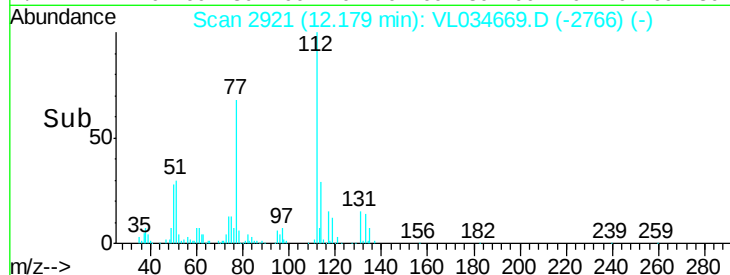
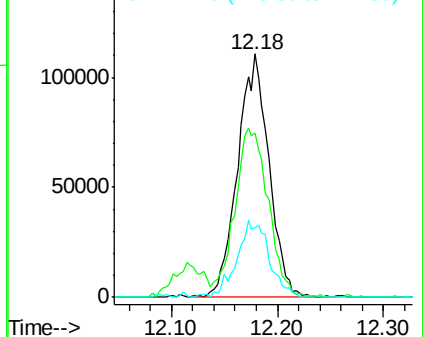
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.062 ppbv

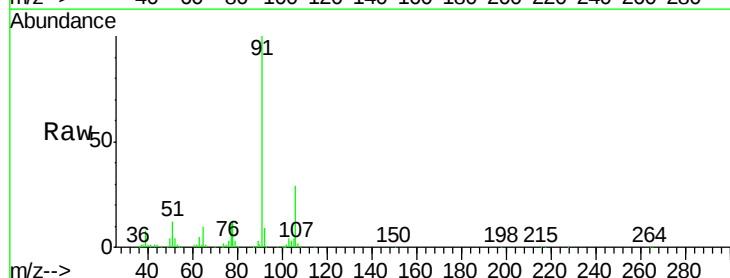
RT: 12.74 min Scan# 3096

Delta R.T. -0.00 min

Lab File: VL034669.D

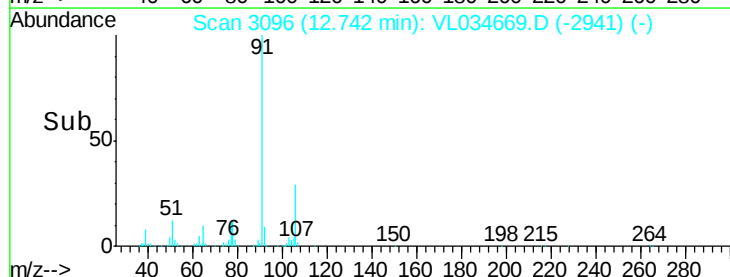
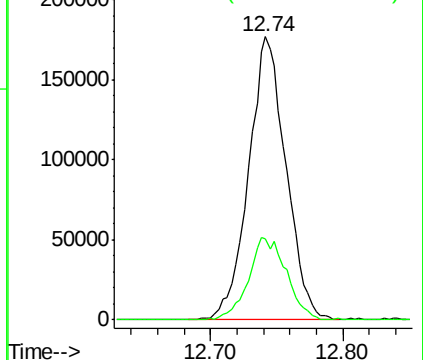
Acq: 25 Feb 2020 12:35

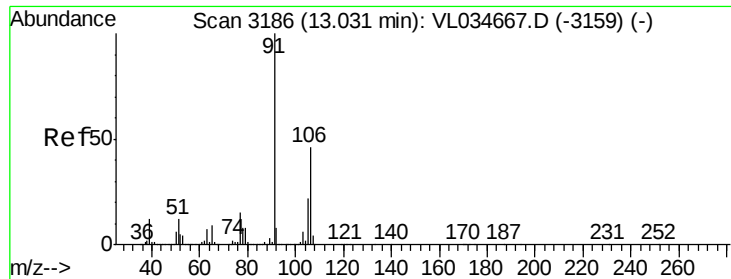
Tgt Ion:	91	Resp:	346428
Ion Ratio	Lower	Upper	
91	100		
106	28.7	24.6	36.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





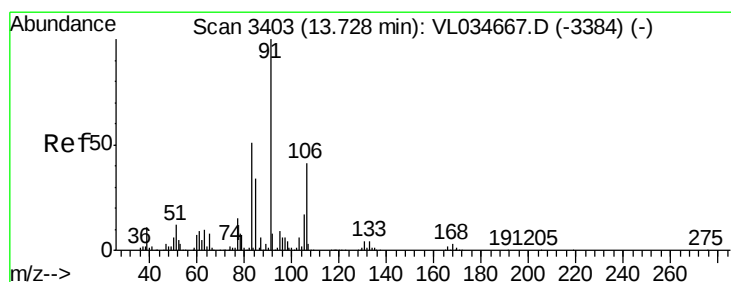
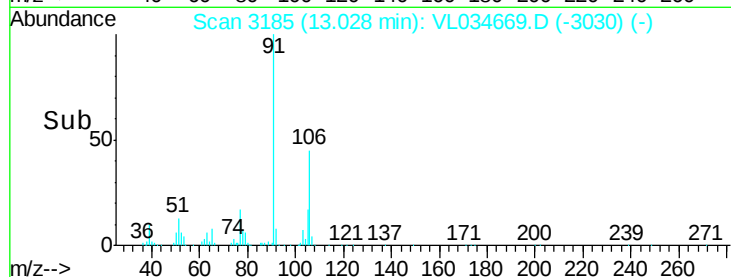
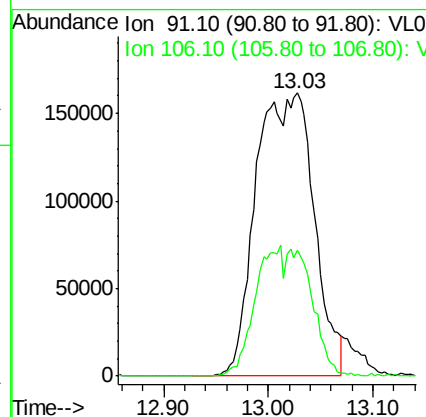
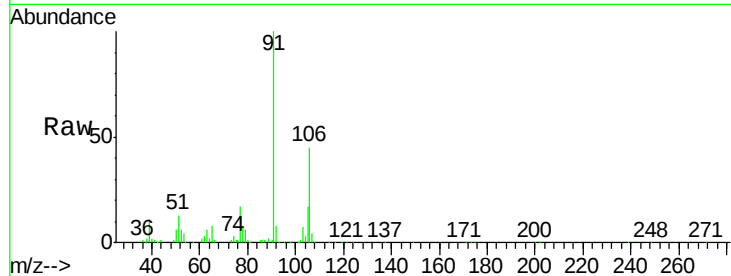
#59
m/p-Xylene
Concen: 2.162 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 623283
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#

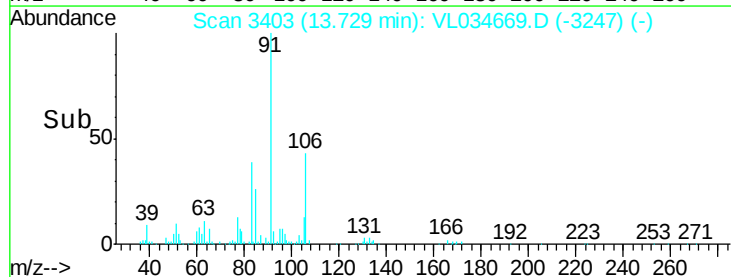
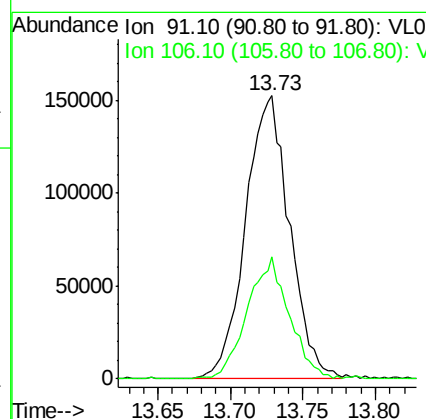
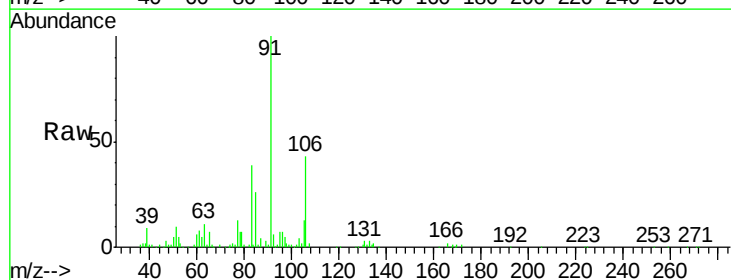
Manual Integrations
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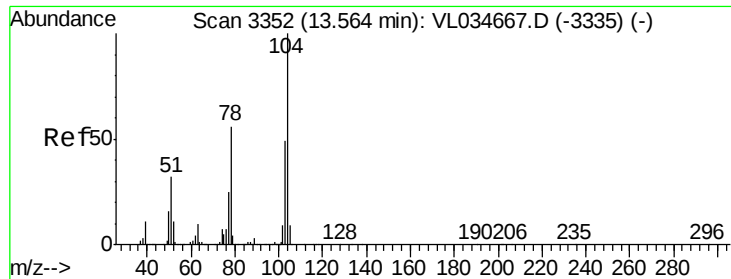
MMDadoda
2/26/2020 12:38:43 PM



#60
o-Xylene
Concen: 1.113 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion: 91 Resp: 322197
Ion Ratio Lower Upper
91 100
106 41.2 22.1 66.1





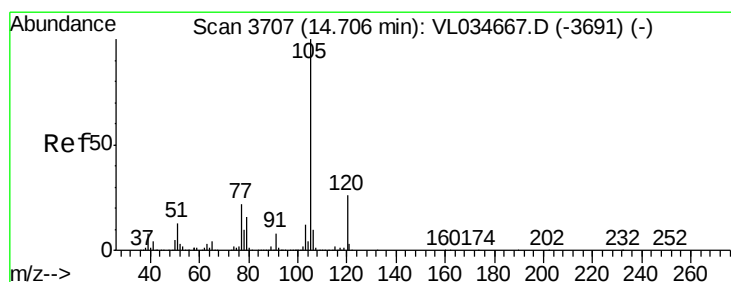
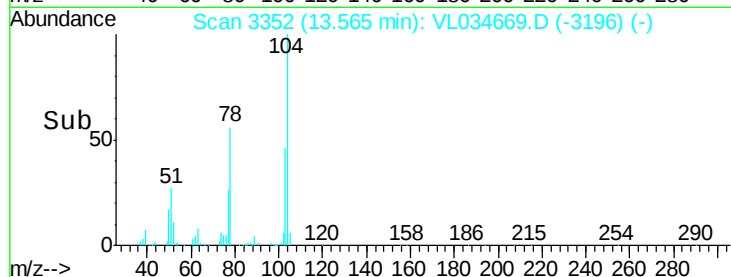
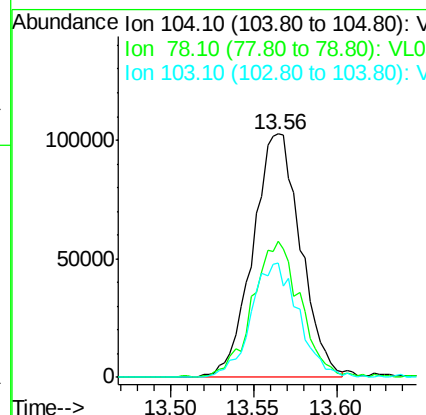
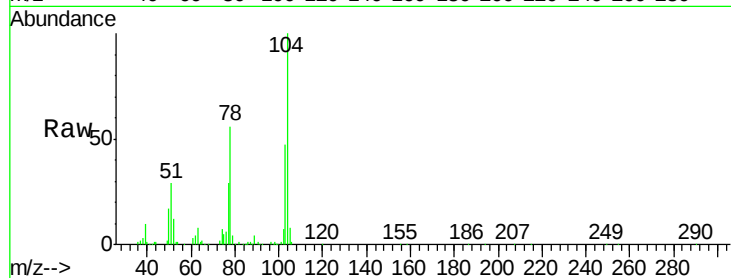
#61
Stvrene
Concen: 1.067 ppbv
RT: 13.56 min Scan# 3352
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.2	44.9	67.3
103	46.4	38.5	57.7

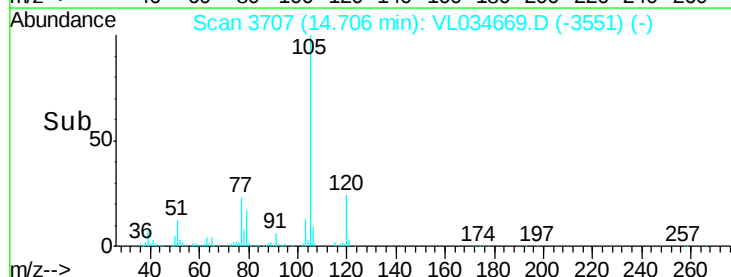
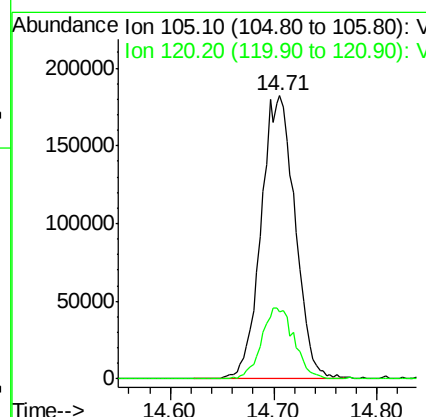
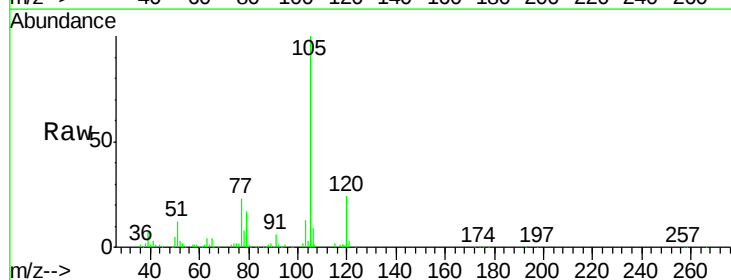
Manual Integrations
APPROVED

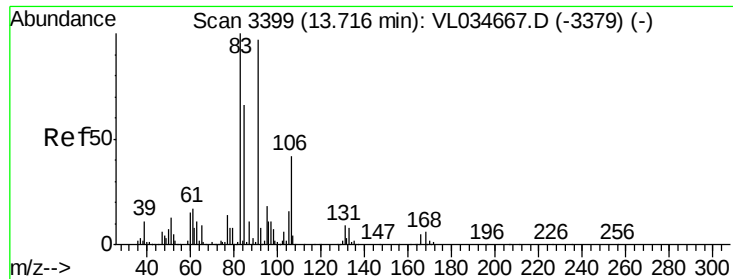
MMDadoda
2/26/2020 12:38:43 PM



#62
Isopropylbenzene
Concen: 1.105 ppbv m
RT: 14.71 min Scan# 3707
Delta R.T. 0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.7	31.1#





#63

1,1,2,2-Tetrachloroethane

Concen: 1.075 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

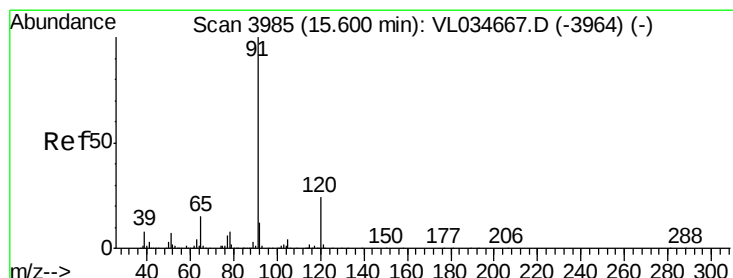
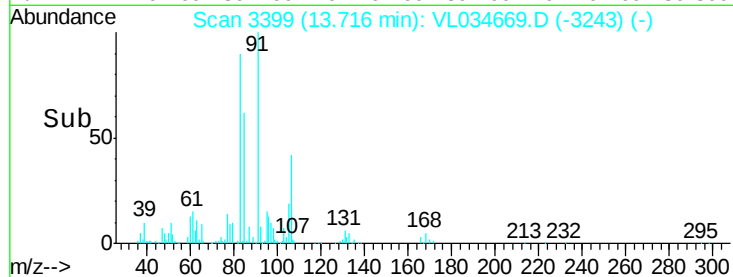
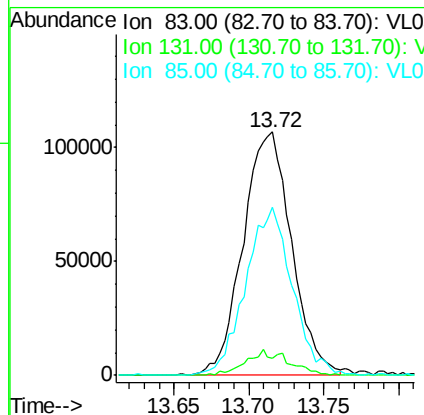
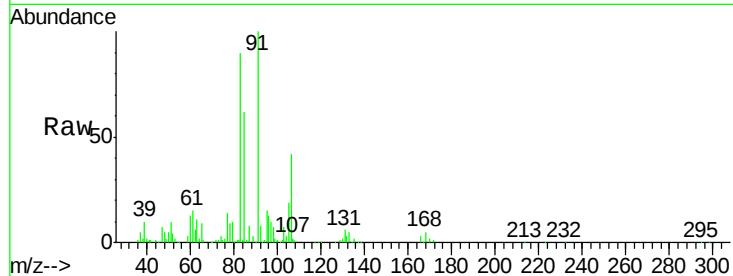
ClientSampleId :

VSTDIC001

Tot Ion:	83	Resp:	240839
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.5	13.4
85	67.1	32.6	98.0

Manual Integrations
APPROVED

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2/26/2020 12:38:43 PM



#64

n-propylbenzene

Concen: 1.055 ppbv

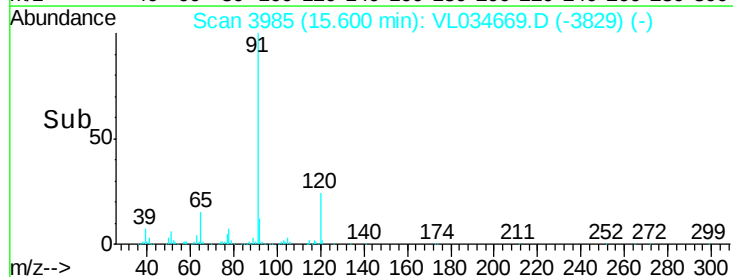
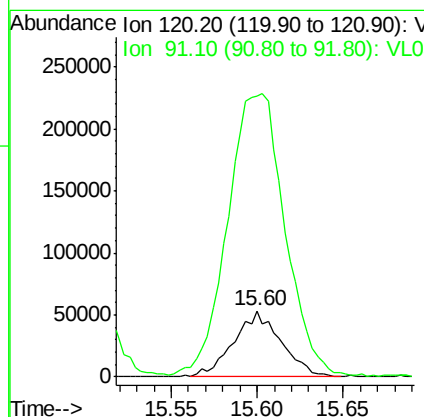
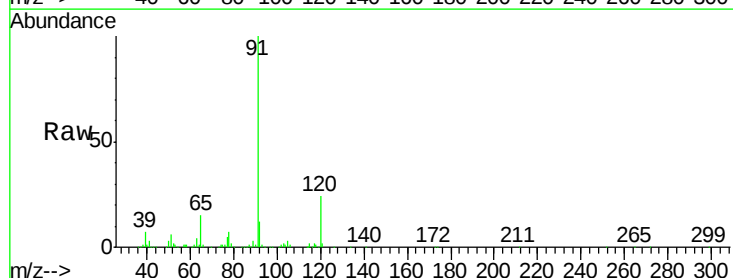
RT: 15.60 min Scan# 3985

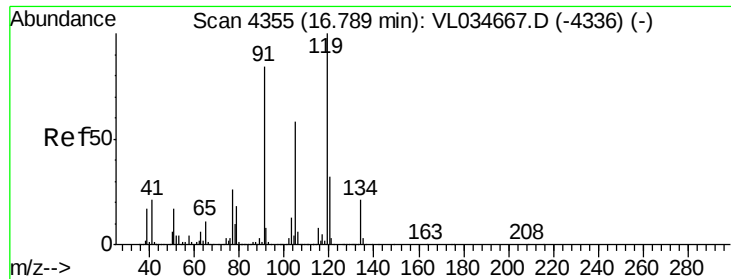
Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion:	120	Resp:	101819
Ion Ratio	Lower	Upper	
120	100		
91	515.7	375.9	563.9





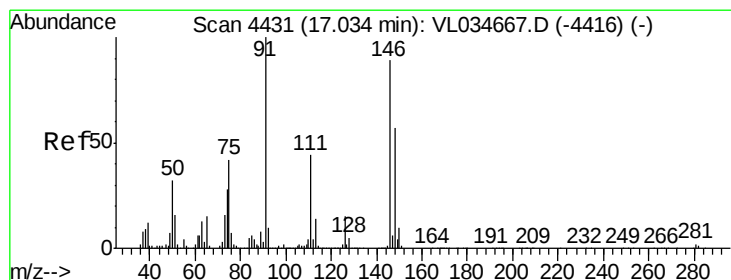
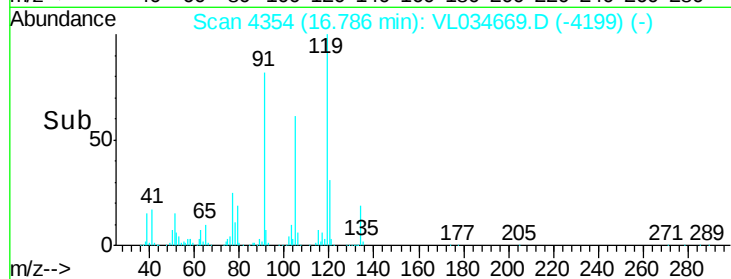
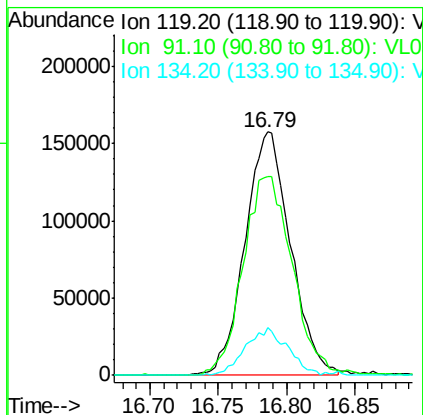
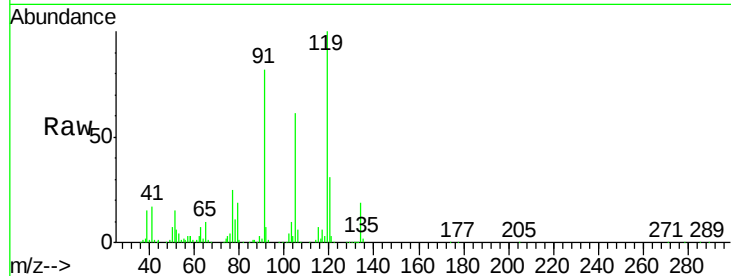
#65
tert-Butylbenzene
Concen: 1.074 ppbv
RT: 16.79 min Scan# 4354
Delta R.T. -0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
91	88.6	68.9	103.3
134	18.6	15.6	23.4

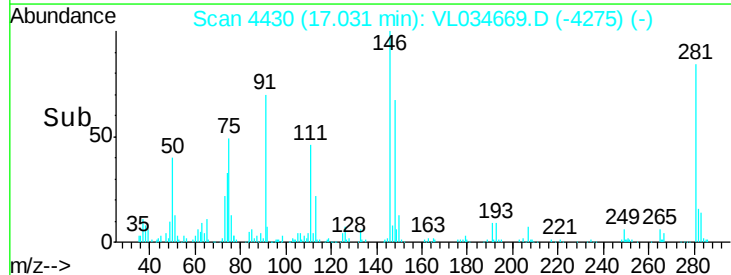
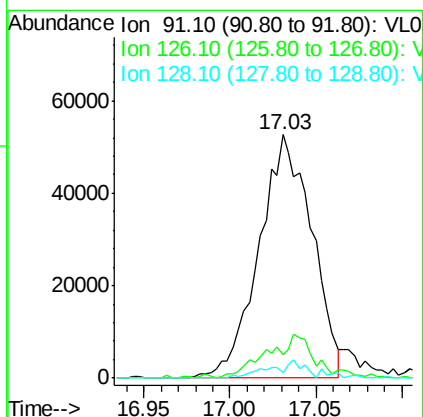
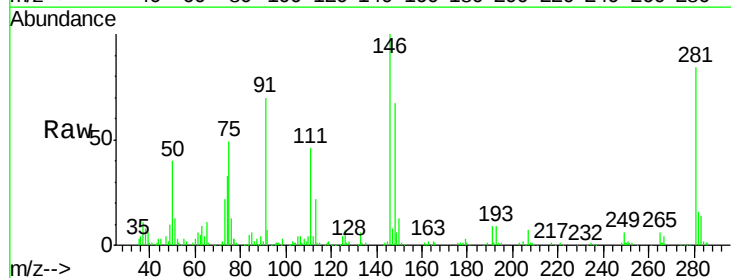
Manual Integrations
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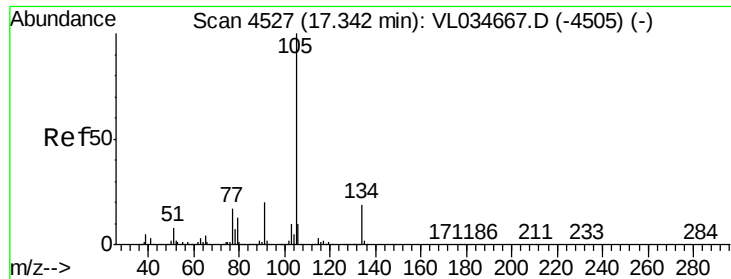
MMDadoda
2/26/2020 12:38:43 PM



#66
Benzyl Chloride
Concen: 0.789 ppbv
RT: 17.03 min Scan# 4430
Delta R.T. -0.00 min
Lab File: VL034669.D
Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.9	13.3	19.9
128	5.8	4.2	6.2





#67

sec-Butylbenzene

Concen: 1.125 ppbv

RT: 17.34 min Scan# 4525

Delta R.T. -0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 525564

Ion Ratio Lower Upper

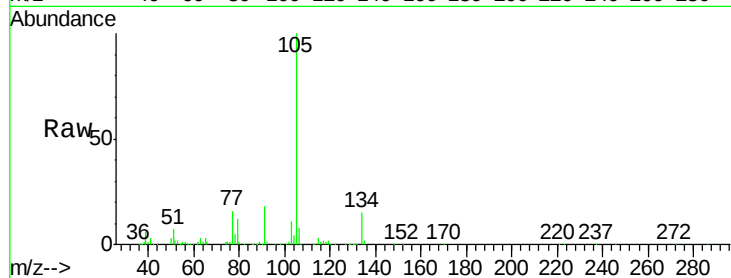
105 100

134 17.2 14.6 21.8

Manual Integrations
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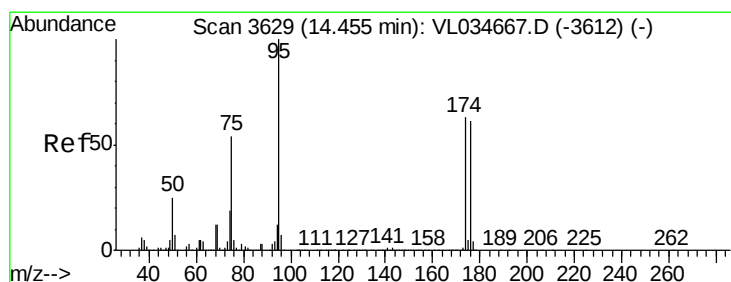
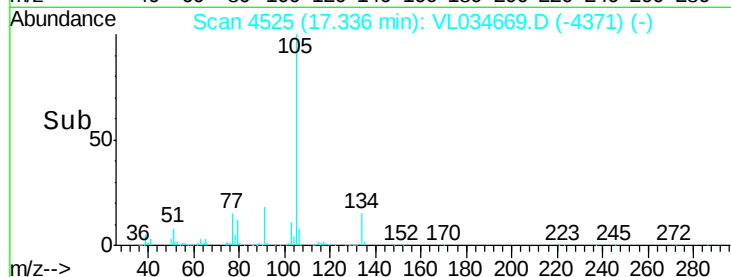
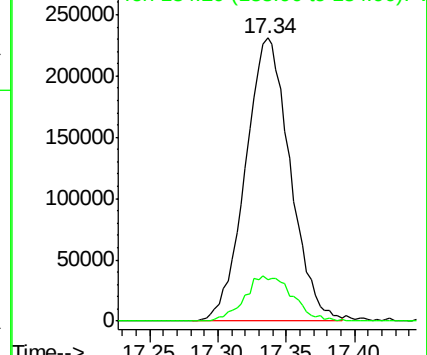
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.785 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

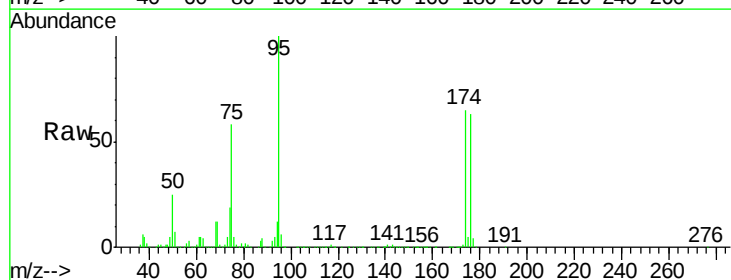
Tgt Ion: 95 Resp: 2015639

Ion Ratio Lower Upper

95 100

174 63.3 51.2 76.8

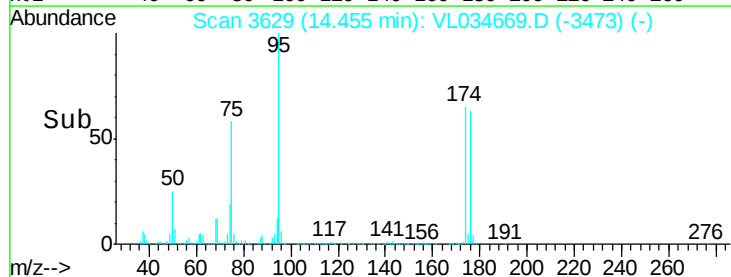
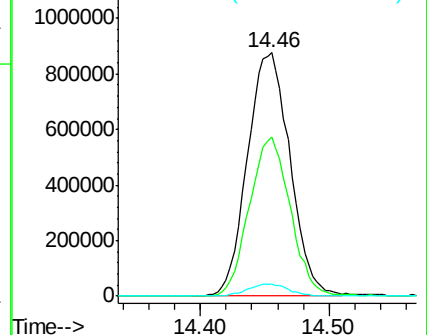
175 4.8 3.8 5.6

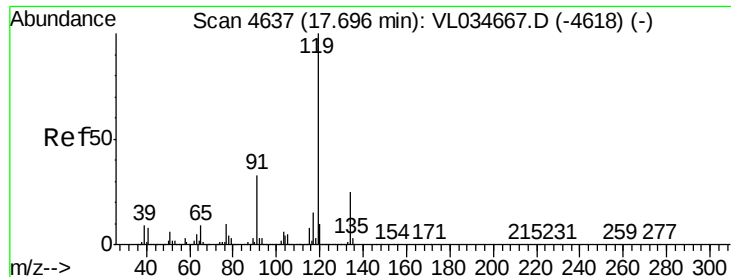


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





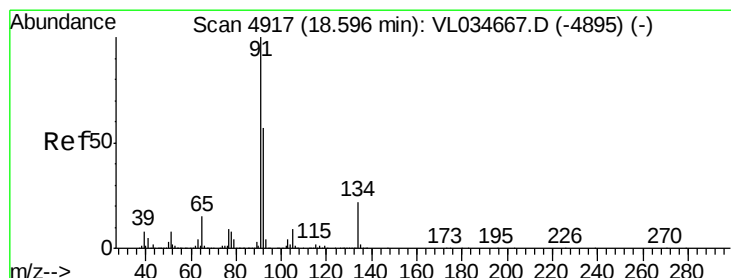
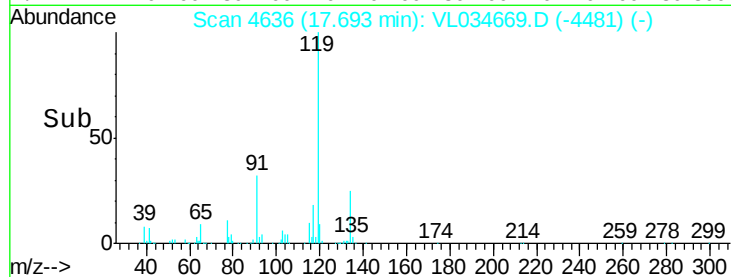
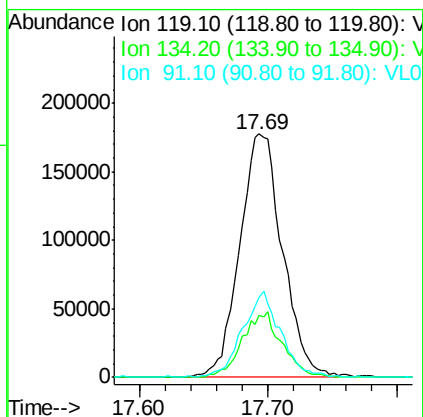
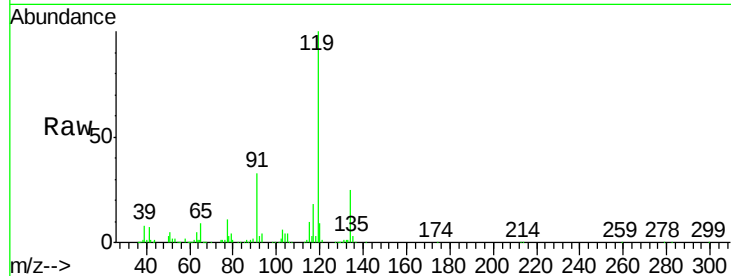
#69
 p-Isopropyltoluene
 Concen: 1.080 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	409596		
134	25.1		20.6	31.0
91	31.9		25.3	37.9

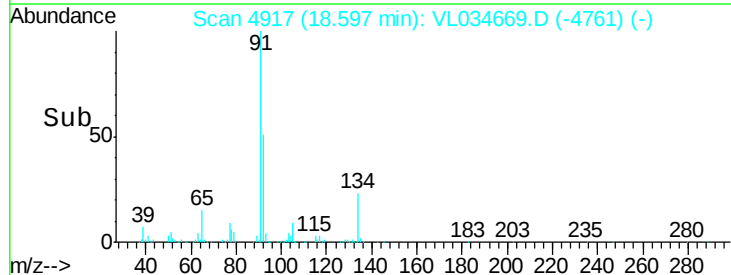
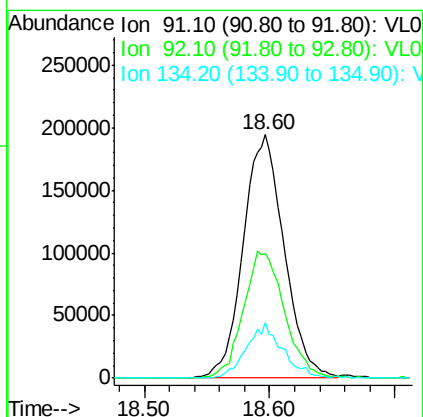
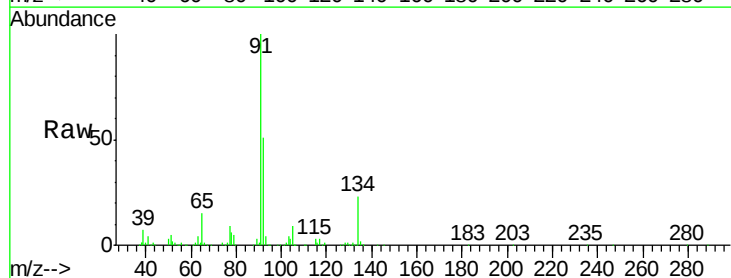
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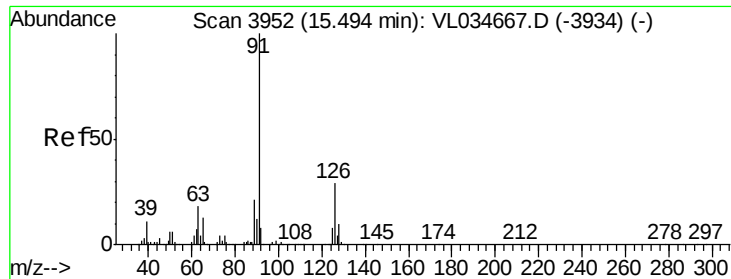
MMDadoda
 2/26/2020 12:38:43 PM



#70
 n-Butylbenzene
 Concen: 1.087 ppbv
 RT: 18.60 min Scan# 4917
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	437864		
92	52.7		44.0	66.0
134	20.3		17.6	26.4





#71

2-Chlorotoluene

Concen: 1.095 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 311828

Ion Ratio Lower Upper

91 100

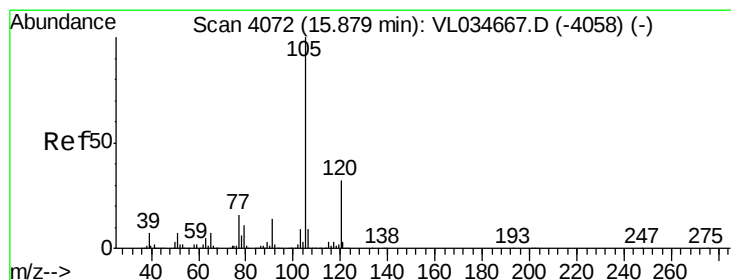
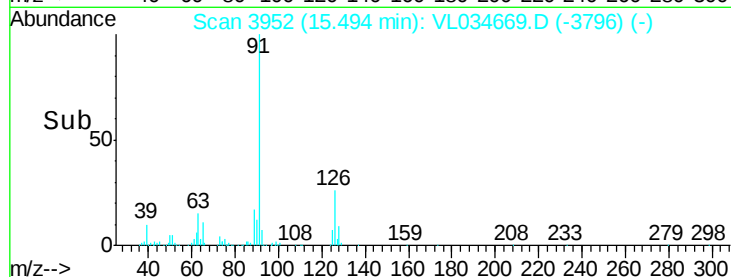
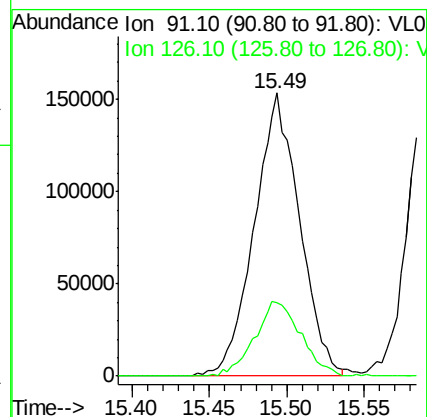
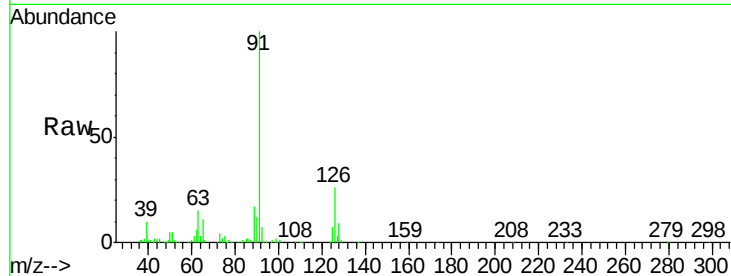
126 27.3 11.8 47.0

Manual Integrations

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2/26/2020 12:38:43 PM



#72

4-Ethyltoluene

Concen: 1.108 ppbv m

RT: 15.88 min Scan# 4072

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion: 105 Resp: 352306

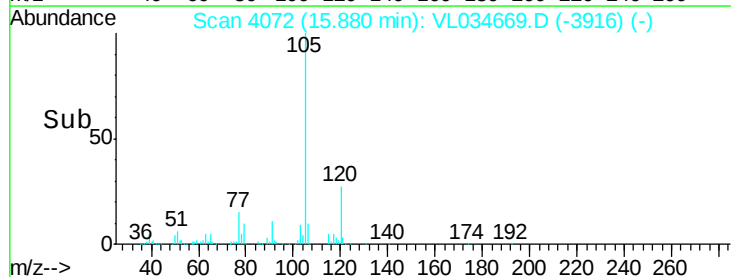
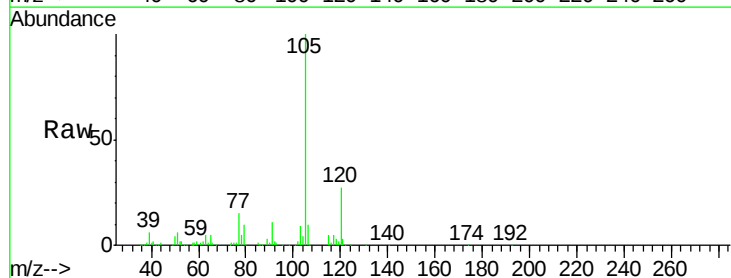
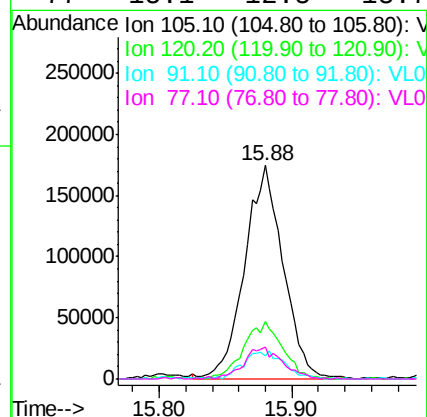
Ion Ratio Lower Upper

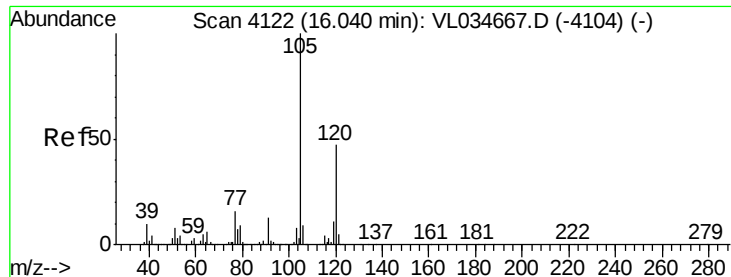
105 100

120 27.2 23.2 34.8

91 13.2 10.9 16.3

77 15.1 12.5 18.7





#73

1,3,5-Trimethylbenzene

Concen: 1.069 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 332135

Ion Ratio Lower Upper

105 100

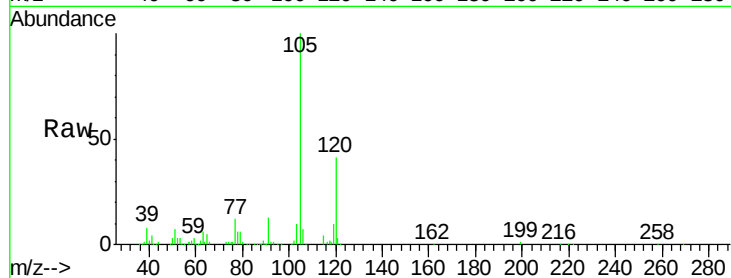
120 41.5 37.2 55.8

Manual Integrations

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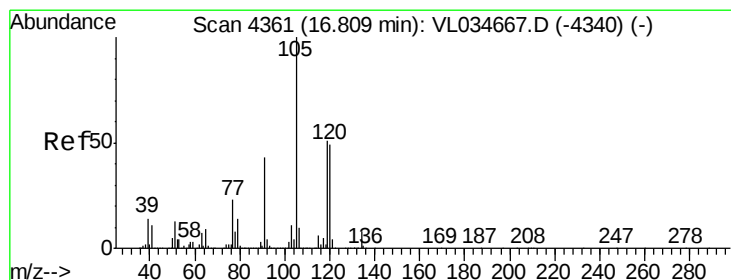
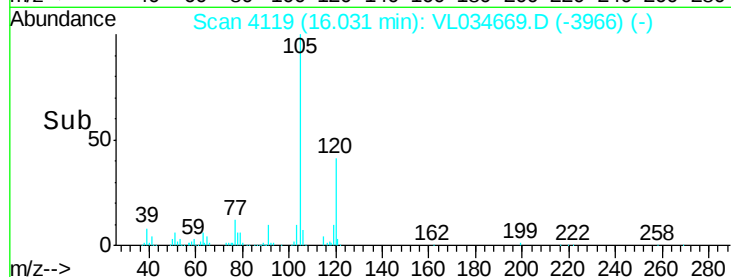
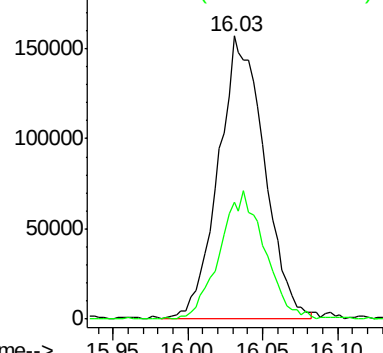
MMDadoda

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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: 1.048 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion:105 Resp: 360544

Ion Ratio Lower Upper

105 100

120 42.3 39.4 59.0

91 53.2 35.1 52.7#

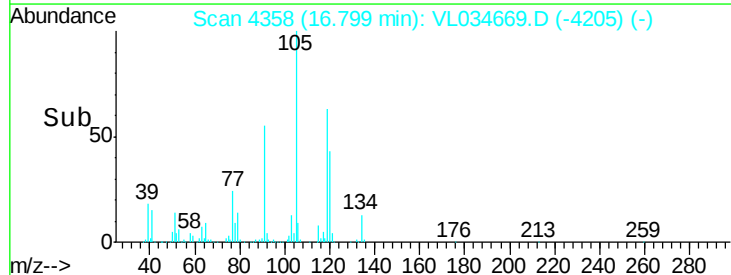
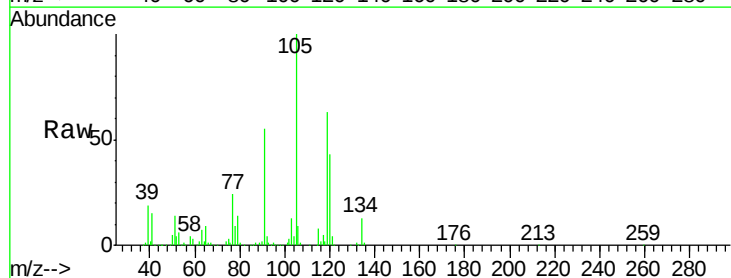
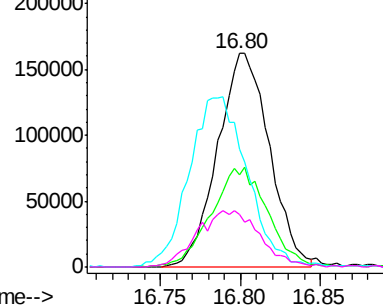
77 23.9 18.8 28.2

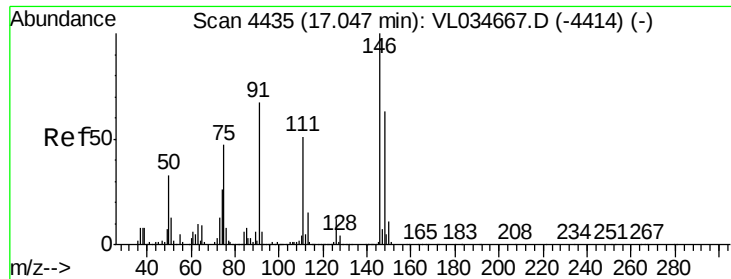
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 1.054 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

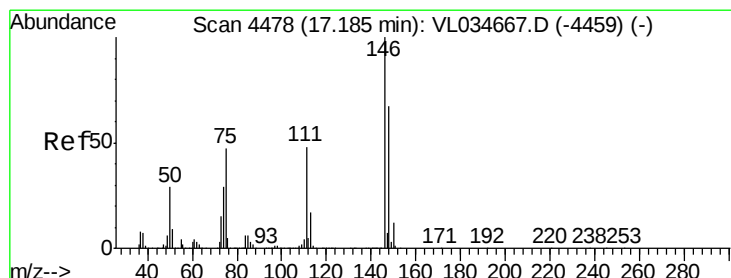
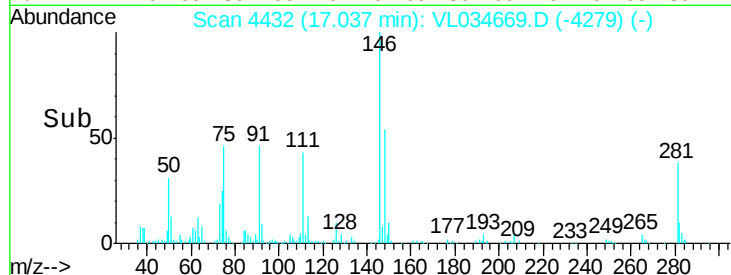
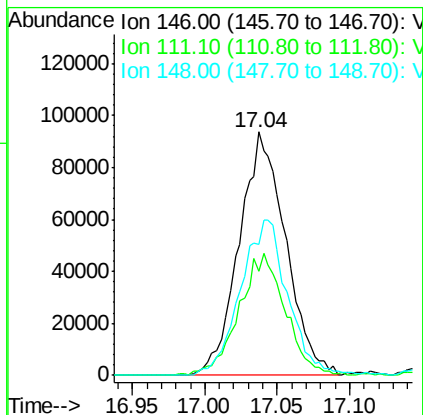
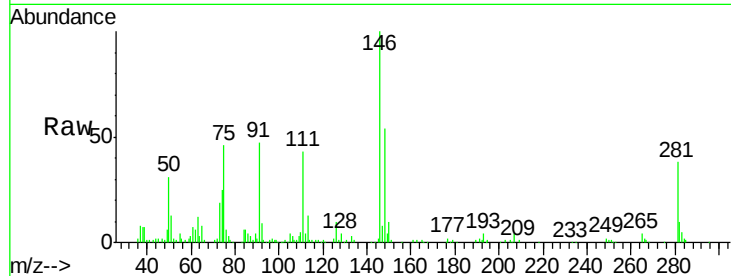
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	208848
Ion Ratio	Lower	Upper	
146	100		
111	49.9	24.0	72.0
148	65.7	32.1	96.5

Manual Integrations
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2/26/2020 12:38:43 PM



#76

1,4-Dichlorobenzene

Concen: 1.066 ppbv m

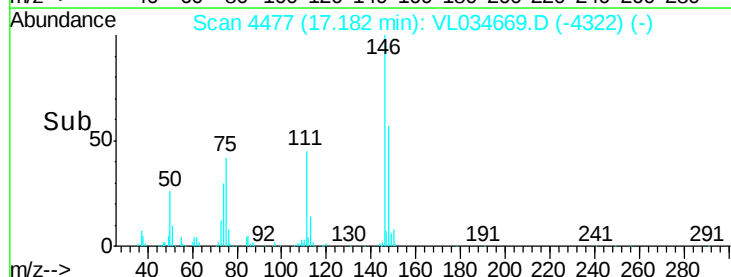
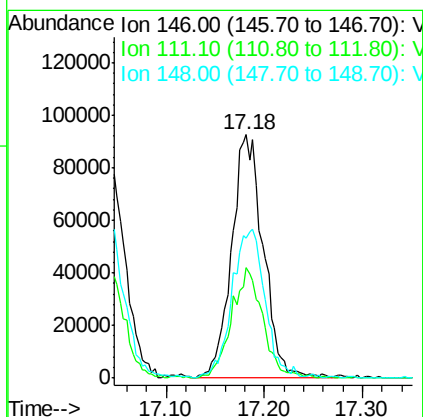
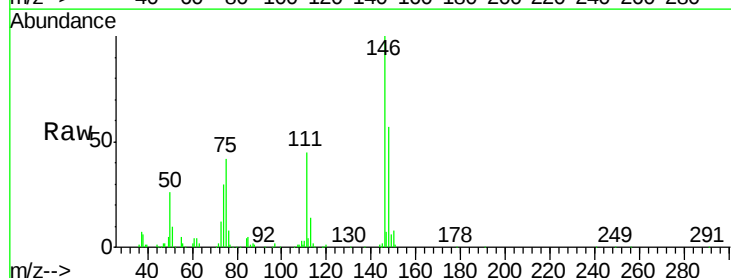
RT: 17.18 min Scan# 4477

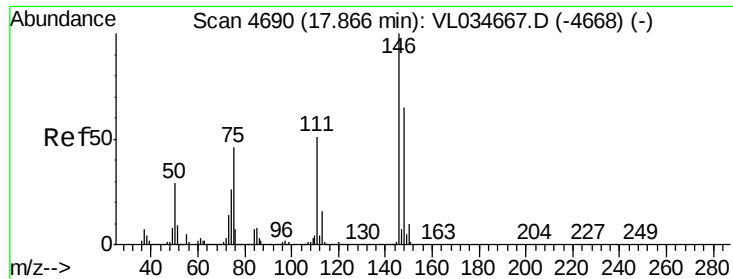
Delta R.T. -0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion:	146	Resp:	208169
Ion Ratio	Lower	Upper	
146	100		
111	44.7	23.8	71.2
148	64.2	32.3	96.9





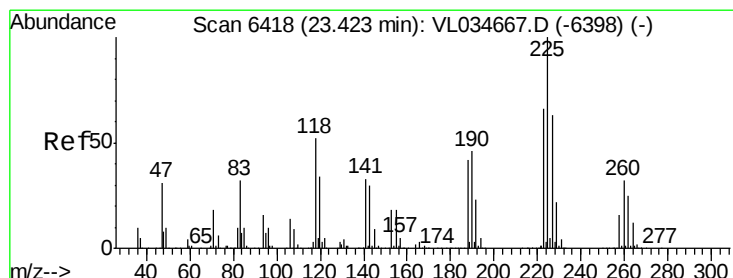
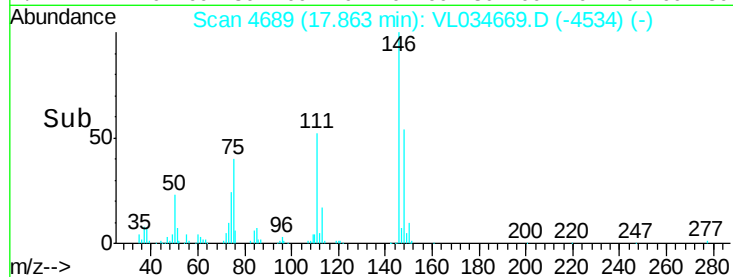
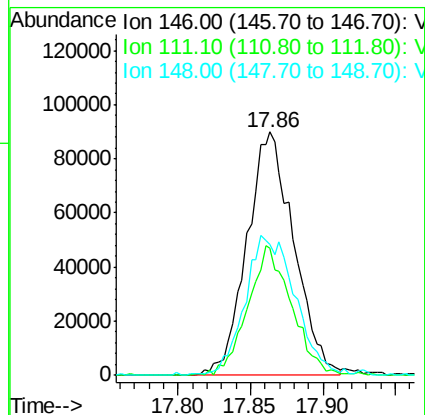
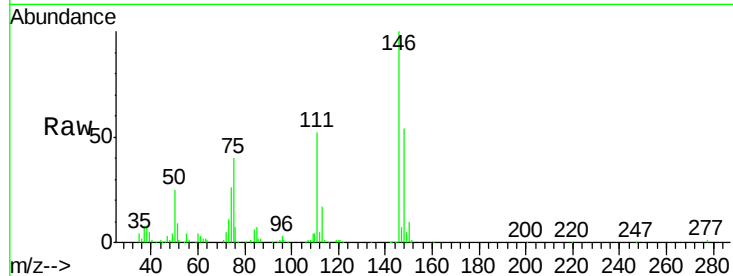
#77
 1,2-Dichlorobenzene
 Concen: 1.062 ppbv
 RT: 17.86 min Scan# 4689
 Delta R.T. -0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
146	100	202086		
111	49.9	24.9	74.7	
148	62.4	32.1	96.3	

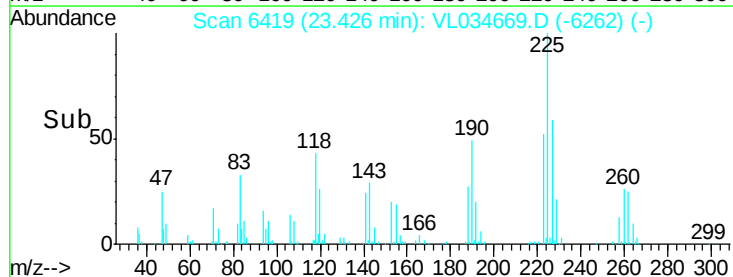
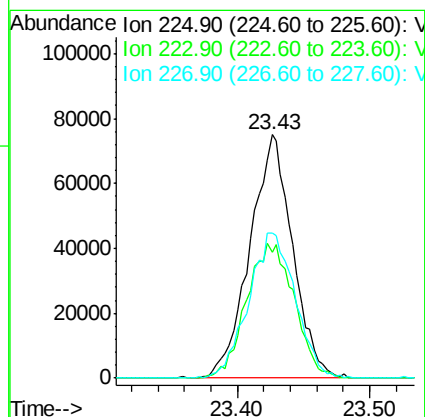
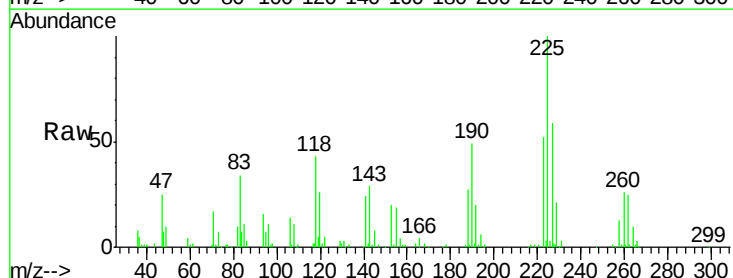
Manual Integrations
 APPROVED

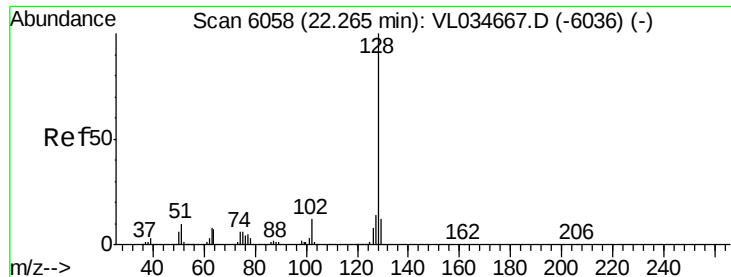
MMDadoda
 2/26/2020 12:38:43 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.923 ppbv
 RT: 23.43 min Scan# 6419
 Delta R.T. 0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	168055		
223	61.6	50.4	75.6	
227	65.2	51.8	77.8	





#79

Naphthalene

Concen: 0.885 ppbv m

RT: 22.27 min Scan# 6059

Delta R.T. 0.00 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Instrument :

MSVOA_L

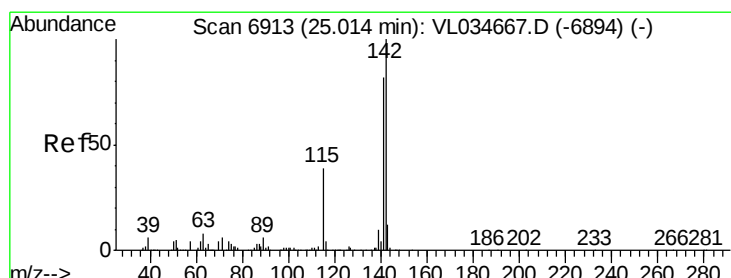
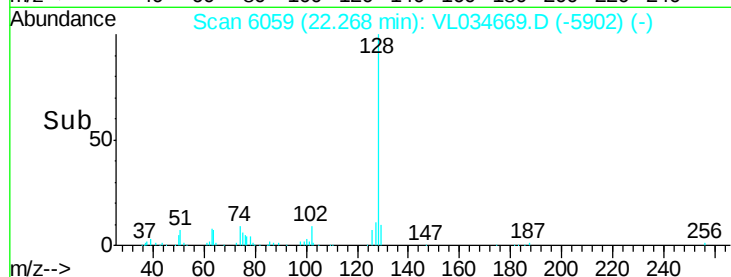
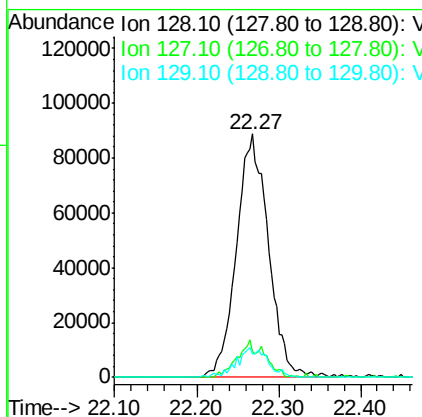
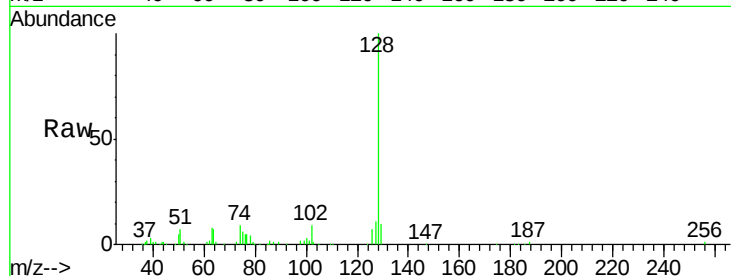
ClientSampleId :

VSTDIC001

Tot Ion:	128	Resp:	239721
Ion Ratio	Lower	Upper	
128	100		
127	10.8	11.0	16.4#
129	9.6	9.5	14.3

Manual Integrations
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2/26/2020 12:38:43 PM



#80

Naphthalene, 2-methyl-

Concen: 0.362 ppbv

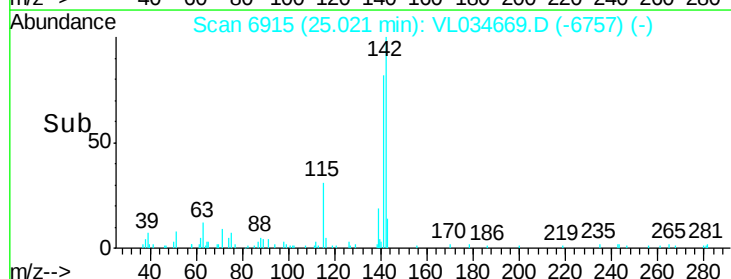
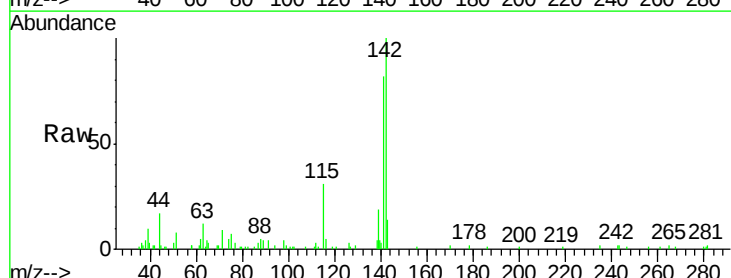
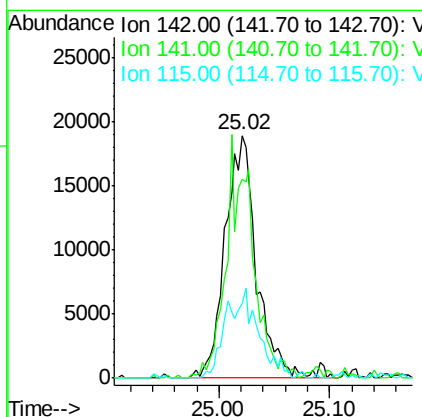
RT: 25.02 min Scan# 6915

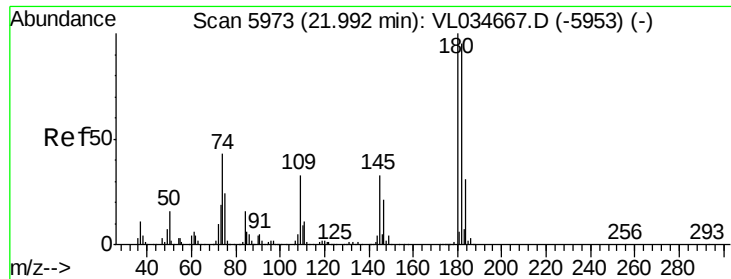
Delta R.T. 0.01 min

Lab File: VL034669.D

Acq: 25 Feb 2020 12:35

Tgt Ion:	142	Resp:	37741
Ion Ratio	Lower	Upper	
142	100		
141	84.1	68.1	102.1
115	37.9	31.0	46.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.917 ppbv m
 RT: 21.99 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL034669.D
 Acq: 25 Feb 2020 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	153197		
182	0.0	77.7	116.5#	
184	0.0	25.3	37.9#	

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:43 PM

