

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034050.D
 Acq On : 30 Jul 2019 3:26
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:35 AM

Quant Time: Jul 30 05:21:50 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1211879	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4333172	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3211609	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2521751	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	256529	1.008 ppbv	99
3) Chlorodifluoromethane	2.99	51	149658	0.984 ppbv	100
4) Chloromethane	3.14	50	85150	0.953 ppbv	99
5) Vinyl Chloride	3.26	62	89235	0.898 ppbv	93
6) Bromomethane	3.49	94	55402	0.919 ppbv	92
7) Chloroethane	3.57	64	35864	0.976 ppbv	91
8) Dichlorotetrafluoroethane	3.19	85	240233	0.950 ppbv	96
9) Propene	3.01	41	47135	0.843 ppbv	89
10) Heptane	8.20	43	140951	1.044 ppbv	97
11) Trichlorofluoromethane	3.97	101	249528	0.849 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.52	101	174500	0.892 ppbv	98
13) Ethanol	3.62	45	22479	1.280 ppbv	99
14) Bromoethene	3.76	108	71039	0.931 ppbv	95
15) Acetone	3.88	43	190570	0.899 ppbv	99
16) 1,3-Butadiene	3.34	39	70004m	0.912 ppbv	
17) tert-Butyl alcohol	4.33	59	160138	0.991 ppbv	98
18) 1,1-Dichloroethene	4.31	96	80392	0.918 ppbv	90
19) Isopropyl Alcohol	4.00	45	130611	0.916 ppbv #	95
20) Methylene Chloride	4.37	84	74243	0.850 ppbv #	82
21) Allyl Chloride	4.44	41	118407	0.946 ppbv	97
22) trans-1,2-Dichloroethene	4.92	96	79370	0.951 ppbv	87
23) Vinyl Acetate	5.12	43	205512	1.030 ppbv #	95
24) 1,1-Dichloroethane	5.05	63	186634	1.045 ppbv	96
25) Ethyl Acetate	5.73	43	281643	1.023 ppbv	99
26) Hexane	5.74	57	127771	1.013 ppbv	94
27) Carbon Disulfide	4.58	76	184043	0.866 ppbv #	92
28) Methyl tert-Butyl Ether	5.08	73	213191	1.001 ppbv	99
29) Chloroform	5.80	83	245483	1.037 ppbv	94
30) Cyclohexane	7.20	84	133455m	1.292 ppbv	
31) cis-1,2-Dichloroethene	5.60	61	120059	0.989 ppbv	99
32) 1,1,1-Trichloroethane	6.57	97	240062	1.001 ppbv	97
34) 2-Butanone	5.29	43	169576	0.790 ppbv	99
35) Carbon Tetrachloride	7.08	117	262740	0.803 ppbv	98
36) Benzene	6.95	78	266670	0.848 ppbv	94
37) 1,2-Dichloroethane	6.37	62	197206	0.842 ppbv #	97
38) Trichloroethene	7.91	130	106545m	0.744 ppbv	
39) 1,2-Dichloropropane	7.68	63	94945m	0.799 ppbv	
40) 1,4-Dioxane	7.93	88	44359m	0.819 ppbv	
41) Tetrahydrofuran	6.12	42	85120	0.816 ppbv	96
42) Bromodichloromethane	7.87	83	247292	0.790 ppbv #	97
43) Methyl Methacrylate	8.09	69	94795	0.797 ppbv	98

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Manual Integrations
 APPROVED

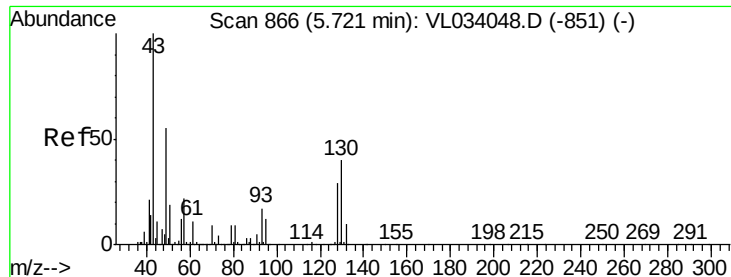
MMdadoda
 8/2/2019 9:37:35 AM

Quant Time: Jul 30 05:21:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30
 QLast Update : Tue Jul 30 05:02:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.94	57	434511	0.798	ppbv	98
45) t-1,3-Dichloropropene	9.36	75	114966	0.747	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	126921	0.707	ppbv	95
47) 1,1,2-Trichloroethane	9.57	97	121767m	0.824	ppbv	
48) Dibromochloromethane	10.39	129	201662m	0.678	ppbv	
49) Bromoform	13.14	173	185516	0.769	ppbv	97
50) 4-Methyl-2-Pentanone	8.83	43	248191m	0.785	ppbv	
51) 2-Hexanone	10.23	43	188643	0.698	ppbv #	97
52) Tetrachloroethene	11.32	164	105198m	0.761	ppbv	
53) Toluene	9.90	91	266264m	0.744	ppbv	
54) 1,2-Dibromoethane	10.70	107	168906m	0.779	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.22	131	155216	1.099	ppbv #	1
57) Chlorobenzene	12.24	112	272673m	1.084	ppbv	
58) Ethyl Benzene	12.81	91	369825	0.973	ppbv	97
59) m/p-Xylene	13.09	91	738416m	2.144	ppbv	
60) o-Xylene	13.79	91	366253	1.060	ppbv	98
61) Styrene	13.63	104	218785	0.963	ppbv	99
62) Isopropylbenzene	14.77	105	471837	0.945	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.78	83	274422	1.023	ppbv	98
64) n-propylbenzene	15.66	120	129669m	1.005	ppbv	
65) tert-Butylbenzene	16.85	119	456210	1.084	ppbv	96
66) Benzyl Chloride	17.10	91	202867	0.953	ppbv	98
67) sec-Butylbenzene	17.40	105	654623	1.102	ppbv	99
69) p-Isopropyltoluene	17.76	119	525447	1.076	ppbv	98
70) n-Butylbenzene	18.65	91	558329m	1.086	ppbv	
71) 2-Chlorotoluene	15.56	91	342521	0.942	ppbv	98
72) 4-Ethyltoluene	15.95	105	401563	0.959	ppbv	97
73) 1,3,5-Trimethylbenzene	16.10	105	416072	1.078	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	477907	1.118	ppbv #	89
75) 1,3-Dichlorobenzene	17.11	146	299661m	1.099	ppbv	
76) 1,4-Dichlorobenzene	17.25	146	279929	1.090	ppbv	98
77) 1,2-Dichlorobenzene	17.93	146	280337	1.112	ppbv	97
78) Hexachloro-1,3-Butadiene	23.49	225	268213	1.219	ppbv	99
79) Naphthalene	22.35	128	398028m	1.106	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	135067	1.036	ppbv	96
81) 1,2,4-Trichlorobenzene	22.06	180	264985m	1.139	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1211879

Ion Ratio Lower Upper

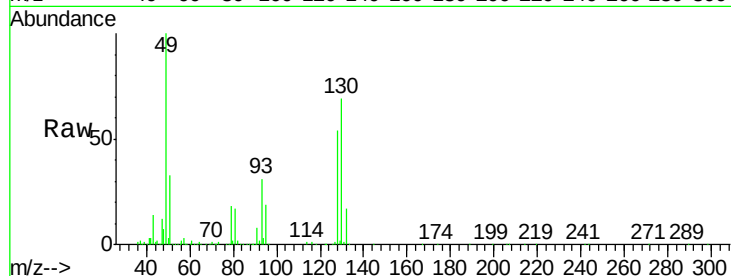
49 100

128 55.6 27.0 81.0

130 71.4 35.0 105.0

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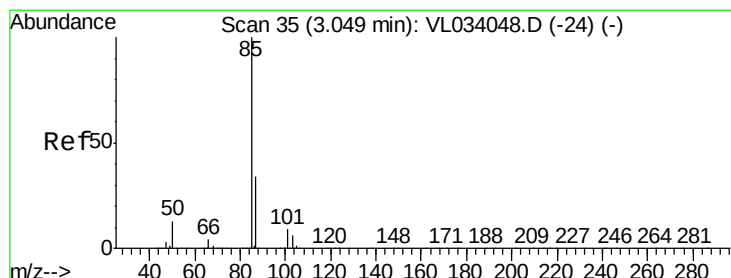
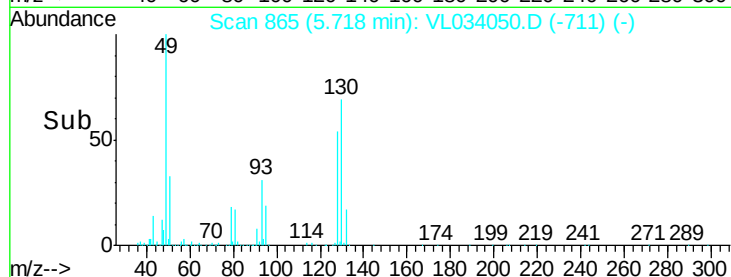
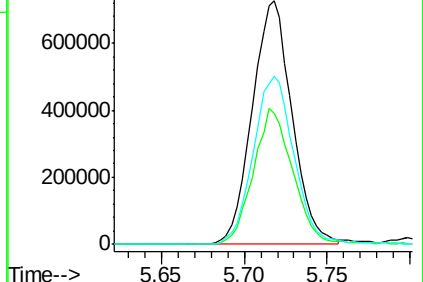
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.008 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL034050.D

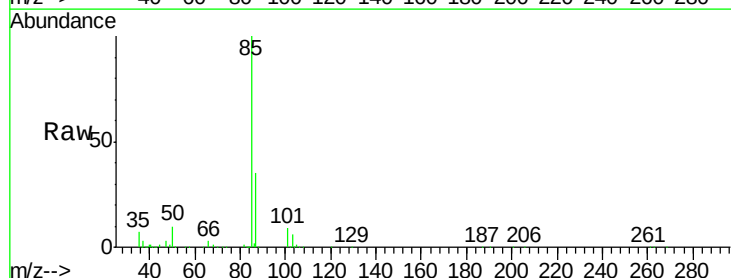
Acq: 30 Jul 2019 3:26

Tgt Ion: 85 Resp: 256529

Ion Ratio Lower Upper

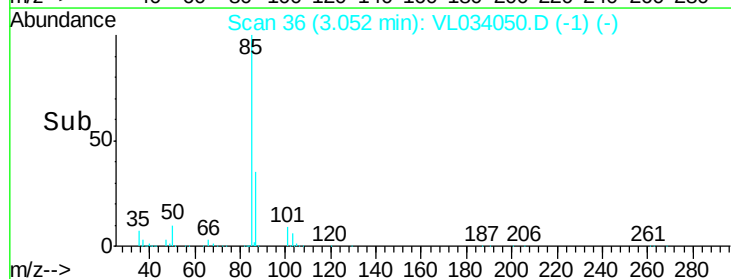
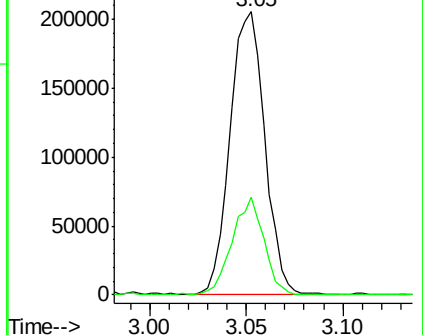
85 100

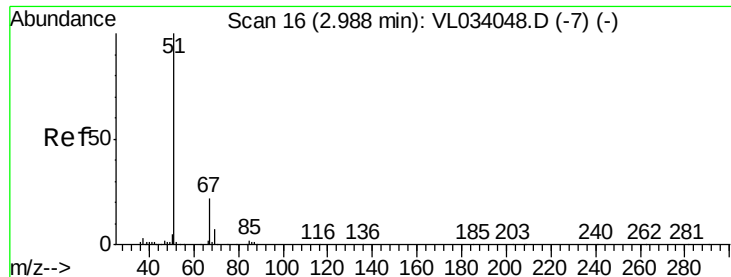
87 34.5 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.984 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 149658

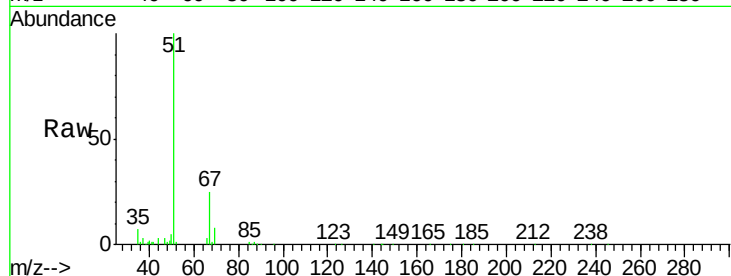
Ion Ratio Lower Upper

51 100

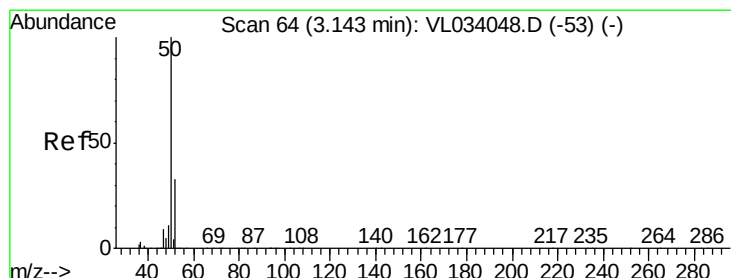
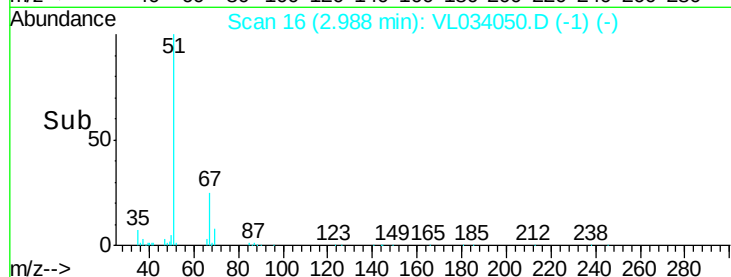
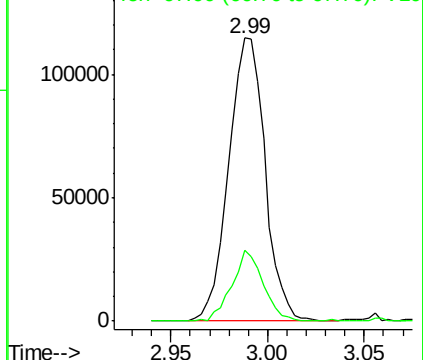
67 21.6 17.4 26.0

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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.953 ppbv

RT: 3.14 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034050.D

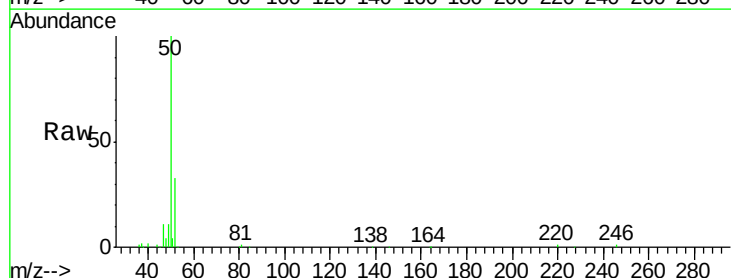
Acq: 30 Jul 2019 3:26

Tgt Ion: 50 Resp: 85150

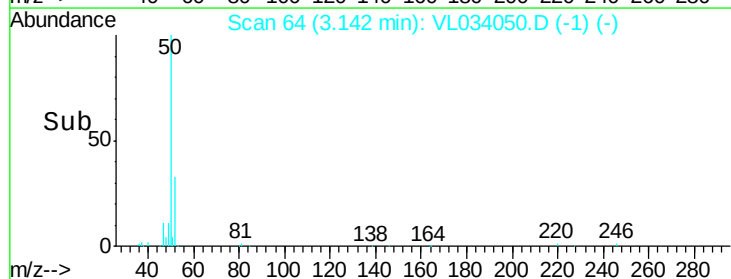
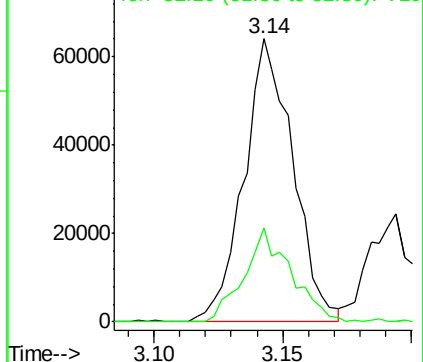
Ion Ratio Lower Upper

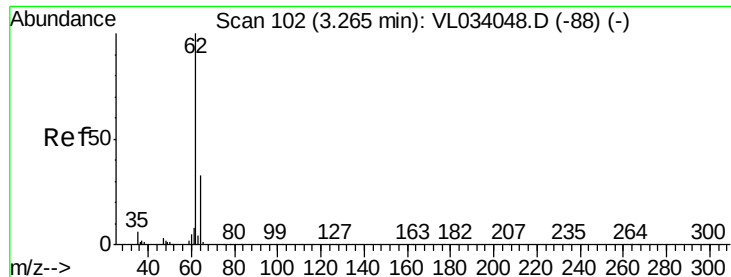
50 100

52 33.0 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.898 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 89235

Ion Ratio Lower Upper

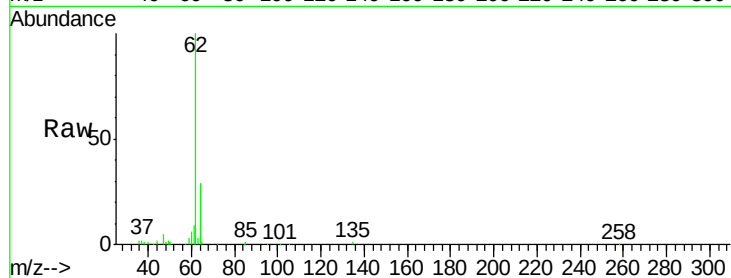
62 100

64 28.9 26.5 39.7

Manual Integrations
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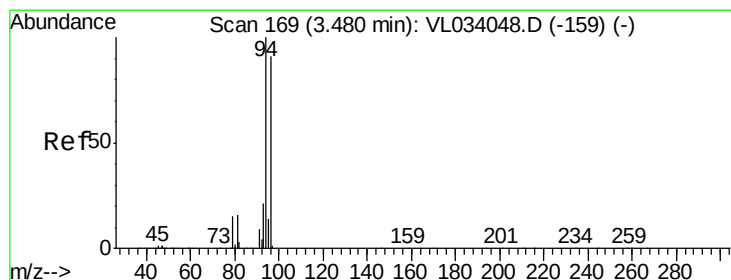
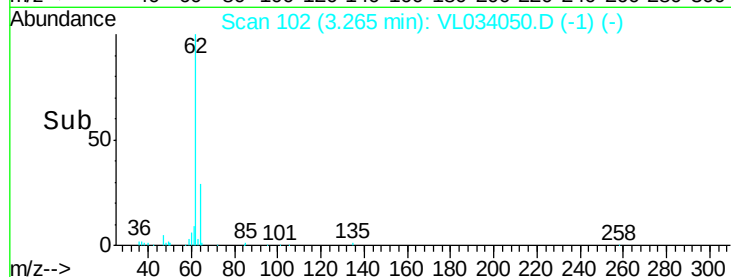
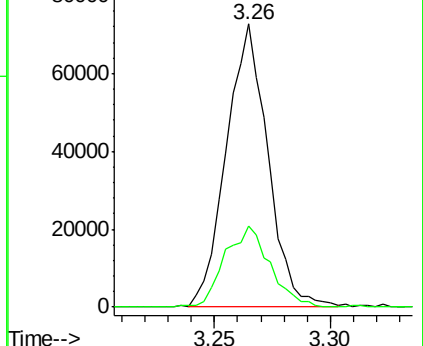
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.919 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034050.D

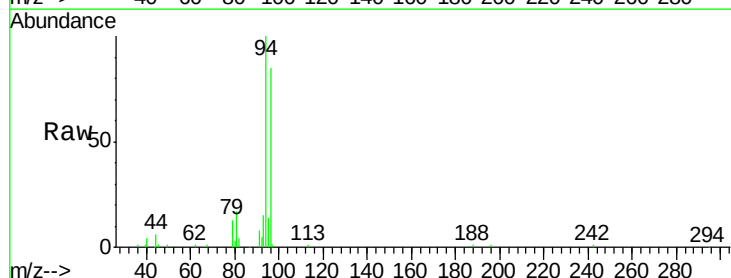
Acq: 30 Jul 2019 3:26

Tgt Ion: 94 Resp: 55402

Ion Ratio Lower Upper

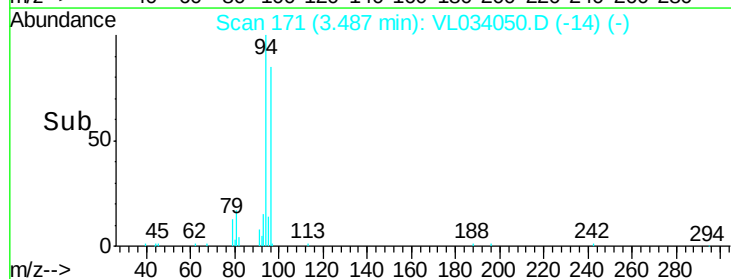
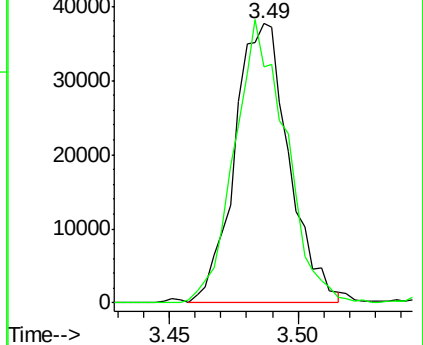
94 100

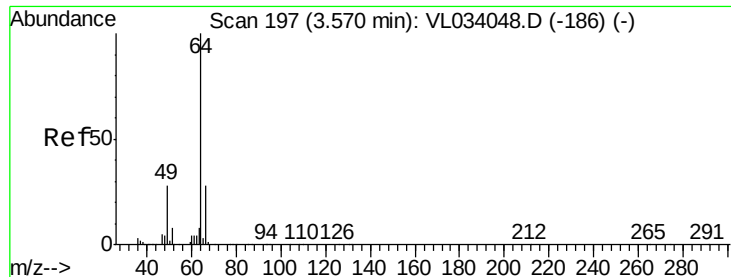
96 83.5 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.976 ppbv

RT: 3.57 min Scan# 197

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 35864

Ion Ratio Lower Upper

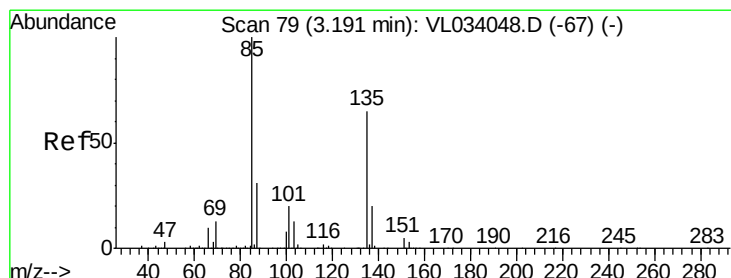
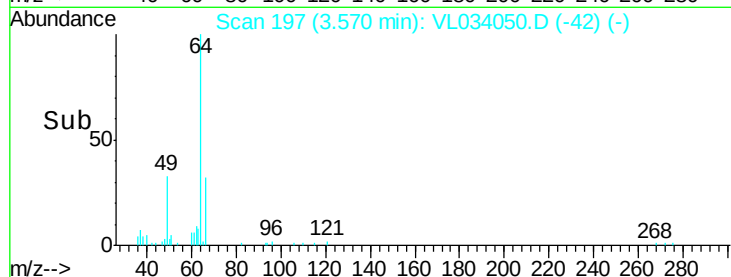
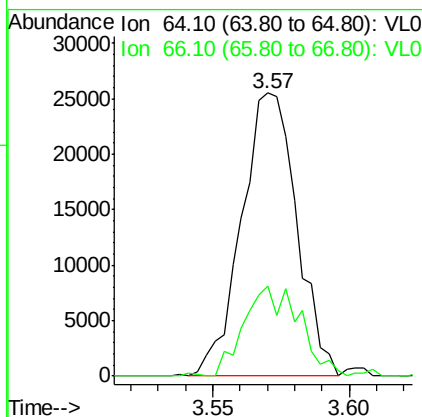
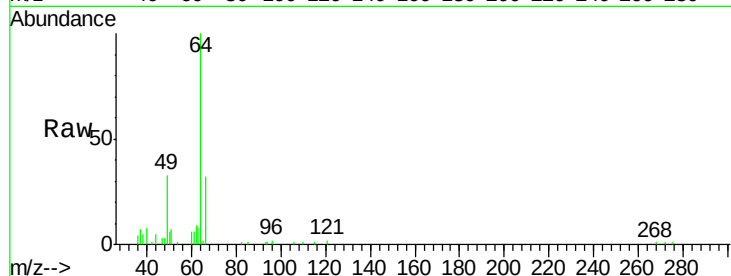
64 100

66 32.0 22.0 33.0

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 0.950 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034050.D

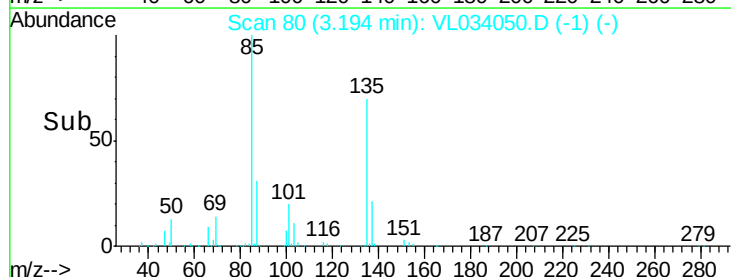
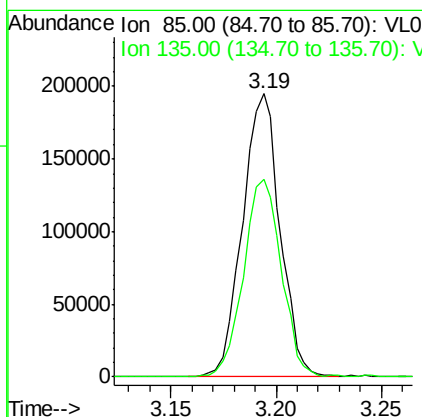
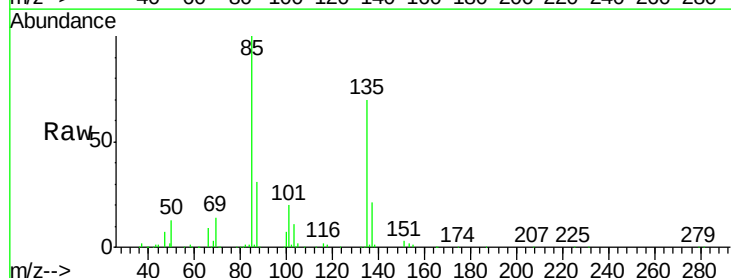
Acq: 30 Jul 2019 3:26

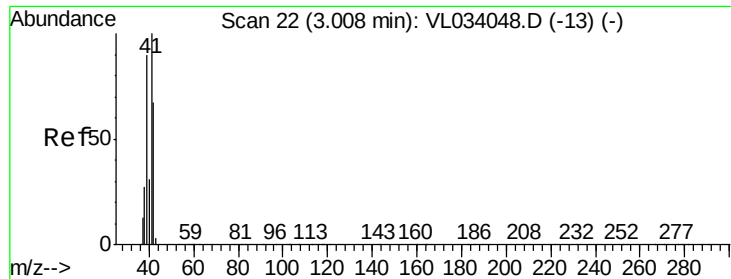
Tgt Ion: 85 Resp: 240233

Ion Ratio Lower Upper

85 100

135 70.8 54.1 81.1





#9

Propene

Concen: 0.843 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 47135

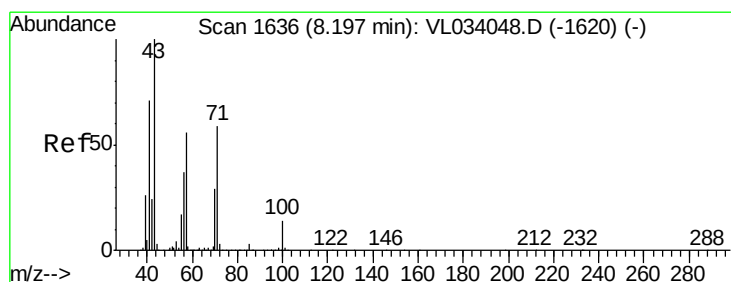
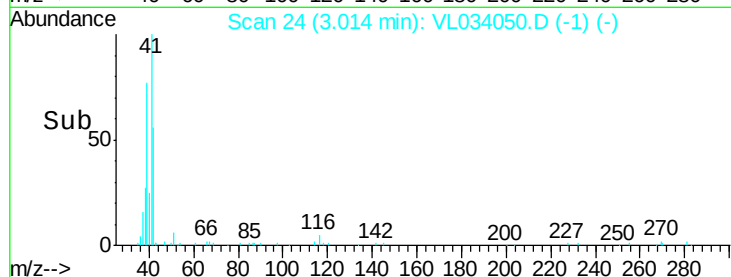
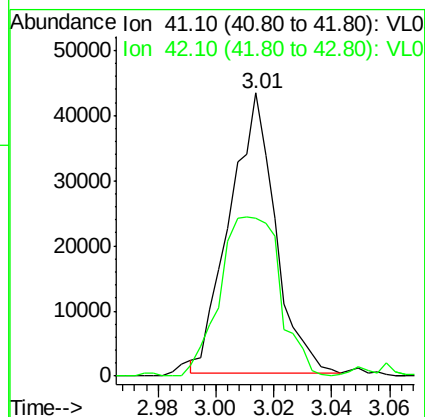
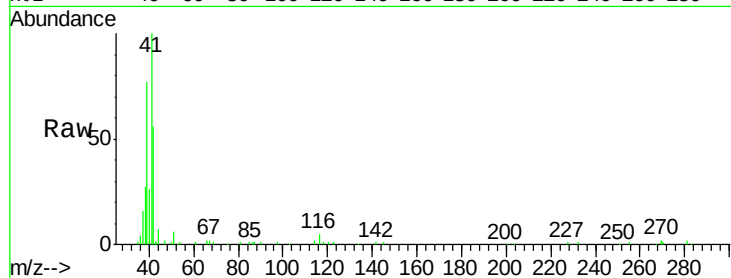
Ion Ratio Lower Upper

41 100

42 77.9 55.4 83.2

Manual Integrations
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#10

Heptane

Concen: 1.044 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VL034050.D

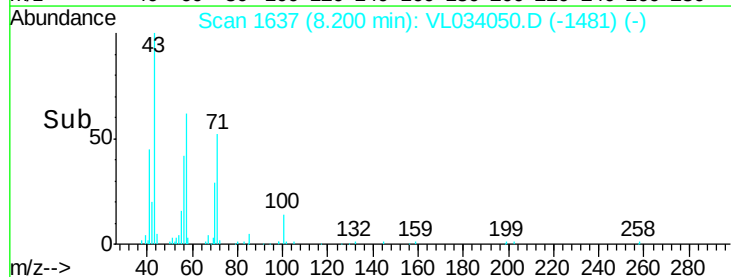
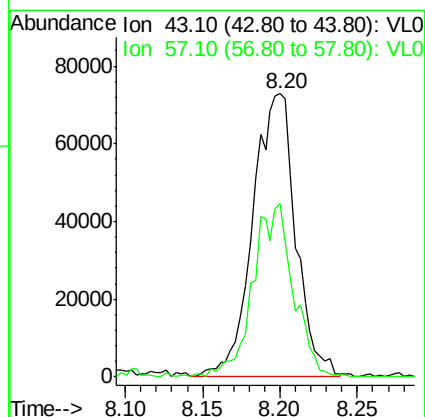
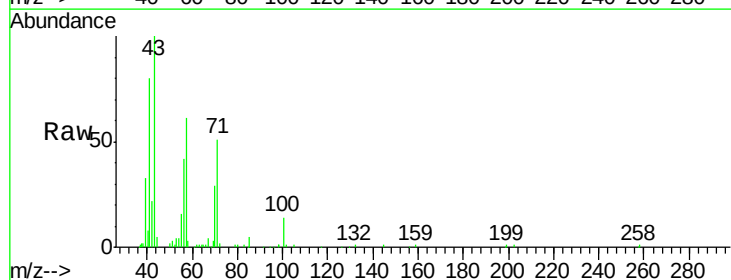
Acq: 30 Jul 2019 3:26

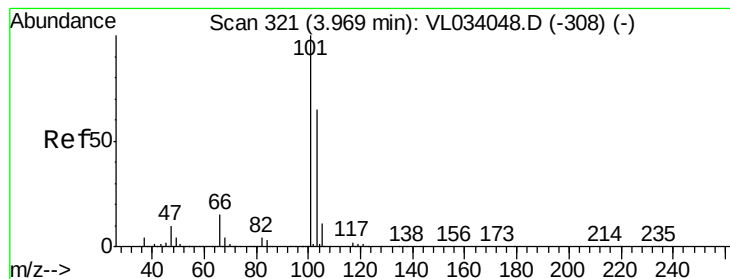
Tgt Ion: 43 Resp: 140951

Ion Ratio Lower Upper

43 100

57 57.9 44.8 67.2





#11

Trichlorofluoromethane

Concen: 0.849 ppbv

RT: 3.97 min Scan# 321

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:101 Resp: 249528

Ion Ratio Lower Upper

101 100

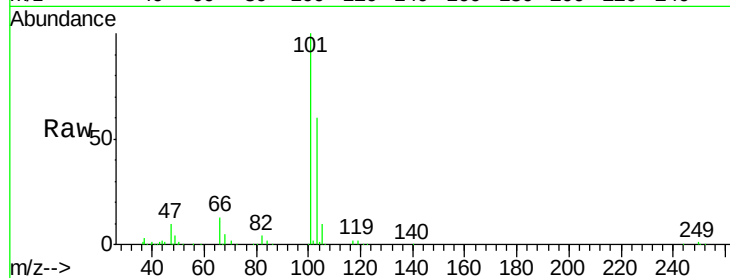
103 59.8 52.3 78.5

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.97

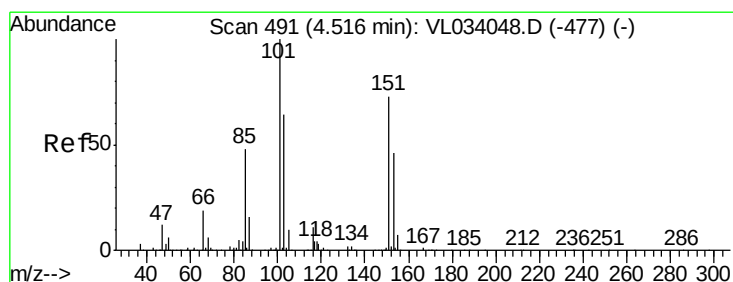
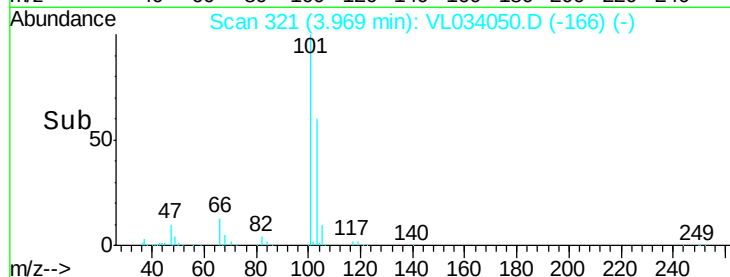
150000

100000

50000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.892 ppbv

RT: 4.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: VL034050.D

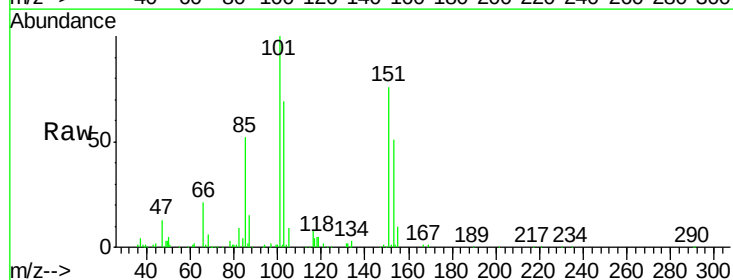
Acq: 30 Jul 2019 3:26

Tgt Ion:101 Resp: 174500

Ion Ratio Lower Upper

101 100

151 73.2 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.52

120000

100000

80000

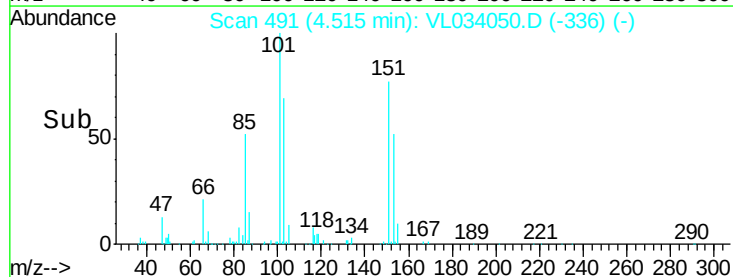
60000

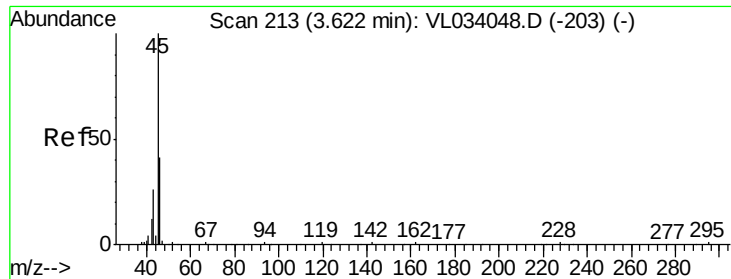
40000

20000

0

Time-->





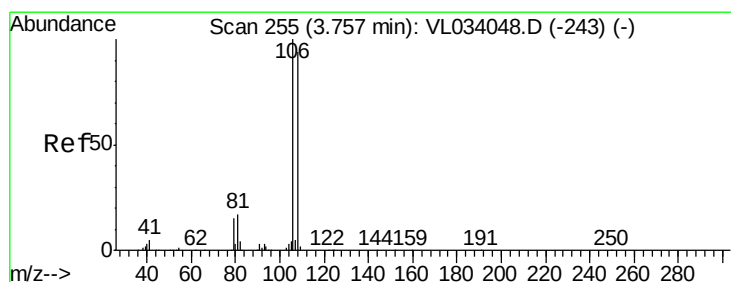
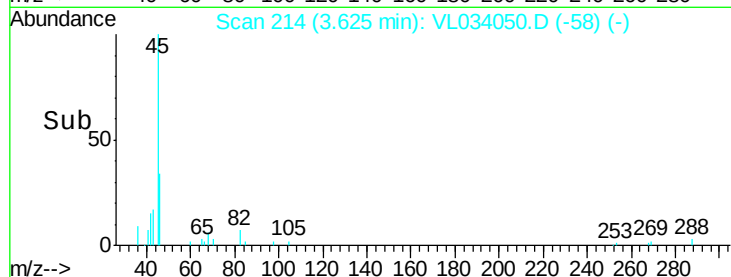
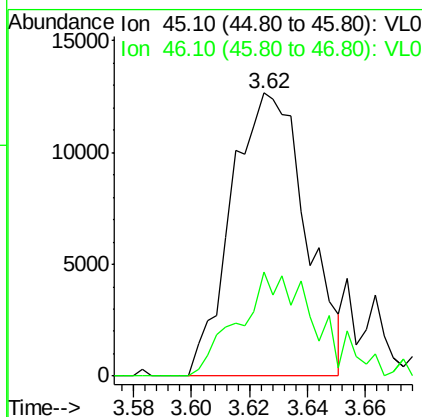
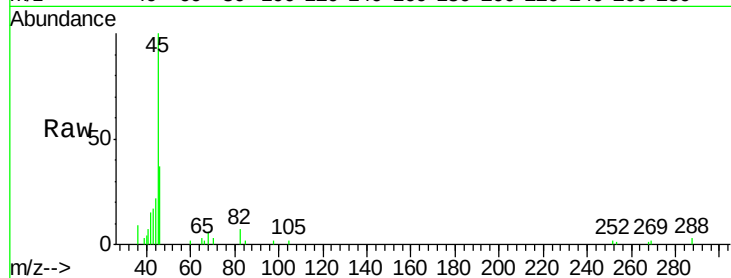
#13
Ethanol
Concen: 1.280 ppbv
RT: 3.62 min Scan# 214
Delta R.T. 0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.6	15.6	62.2

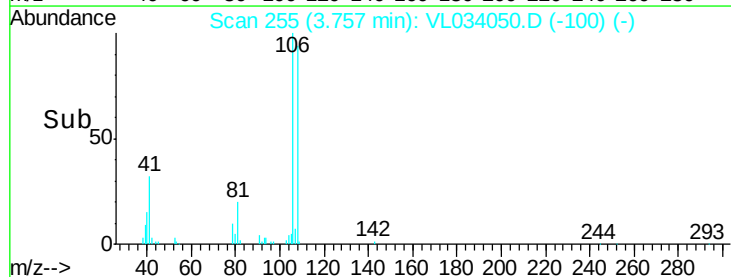
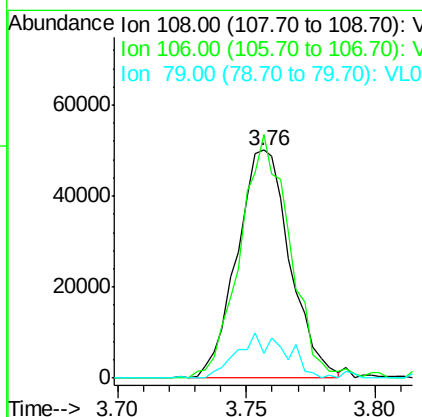
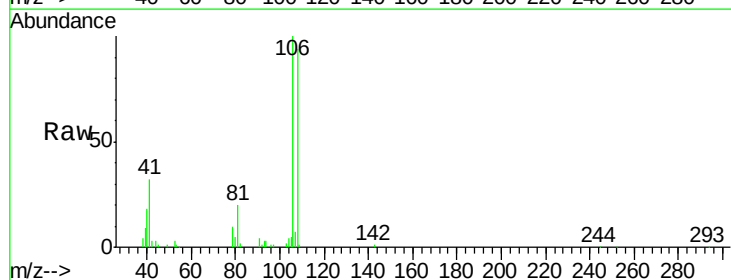
Manual Integrations
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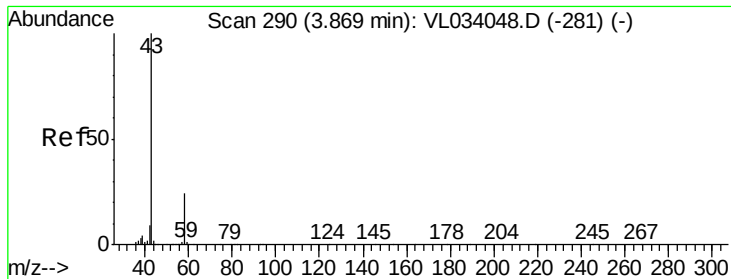
MMdadoda
8/2/2019 9:37:35 AM



#14
Bromoethene
Concen: 0.931 ppbv
RT: 3.76 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
108	100		
106	102.2	86.2	129.2
79	19.1	13.7	20.5





#15

Acetone

Concen: 0.899 ppbv

RT: 3.88 min Scan# 292

Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 190570

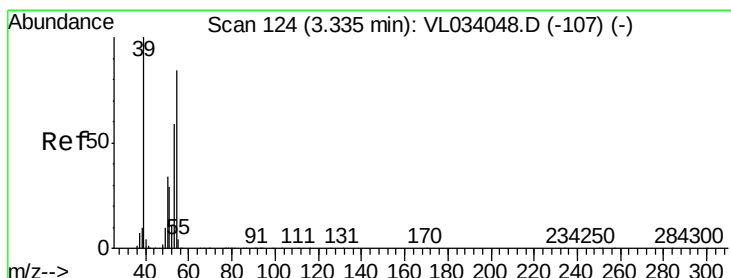
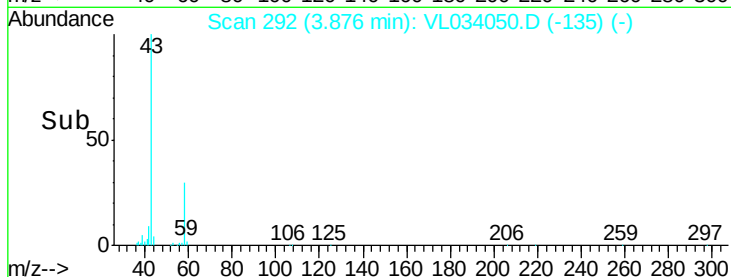
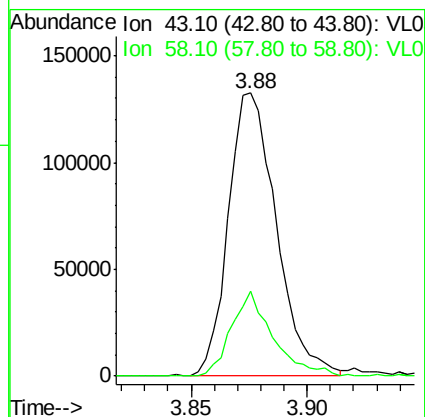
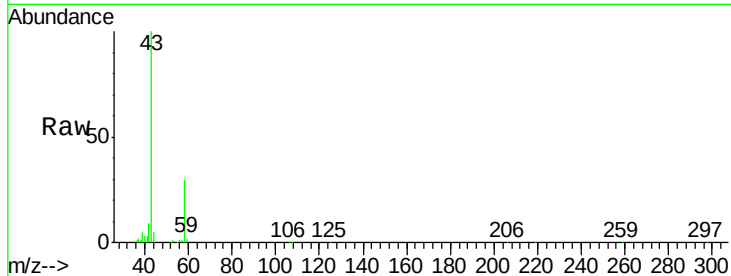
Ion Ratio Lower Upper

43 100

58 26.3 21.6 32.4

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#16

1,3-Butadiene

Concen: 0.912 ppbv m

RT: 3.34 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL034050.D

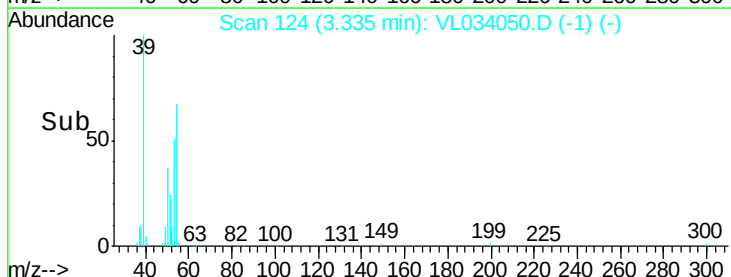
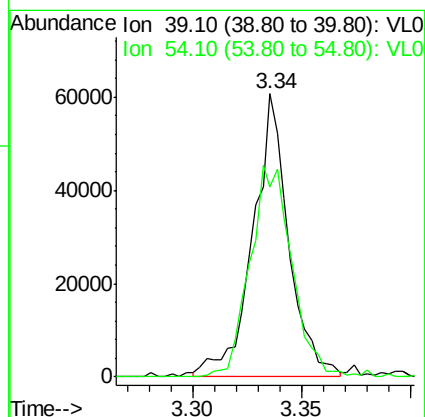
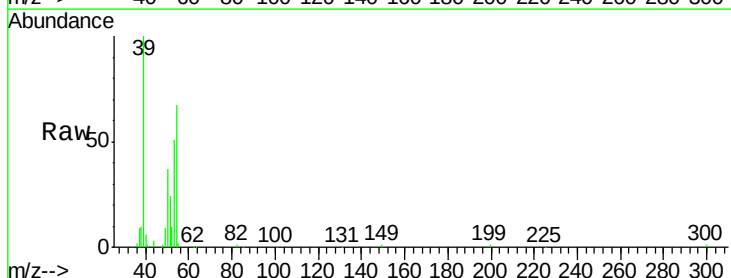
Acq: 30 Jul 2019 3:26

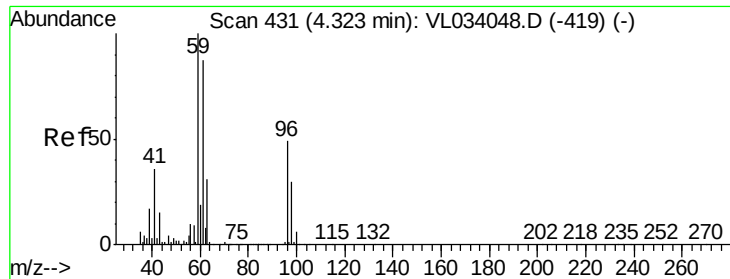
Tgt Ion: 39 Resp: 70004

Ion Ratio Lower Upper

39 100

54 87.8 68.9 103.3





#17

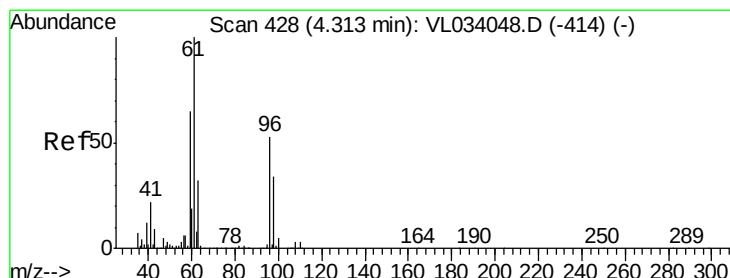
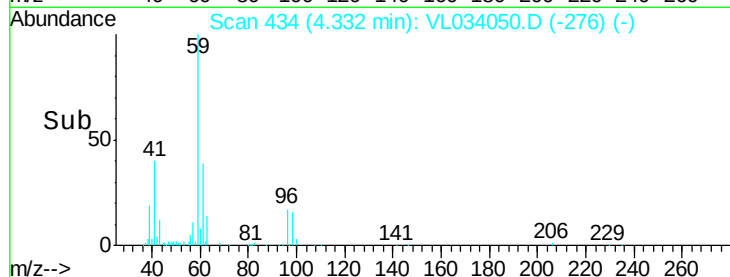
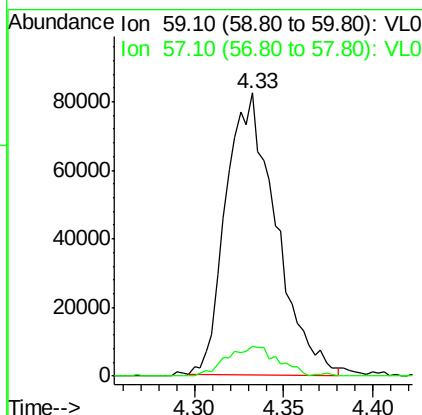
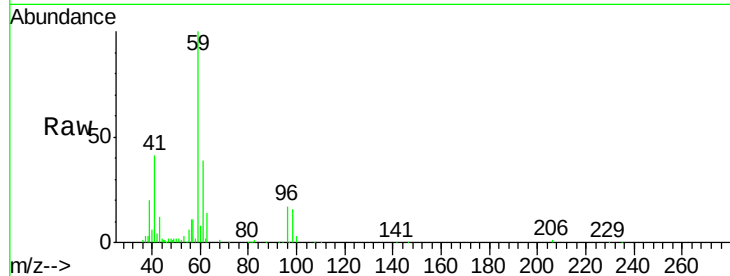
tert-Butyl alcohol
Concen: 0.991 ppbv
RT: 4.33 min Scan# 434
Delta R.T. 0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.2	12.4

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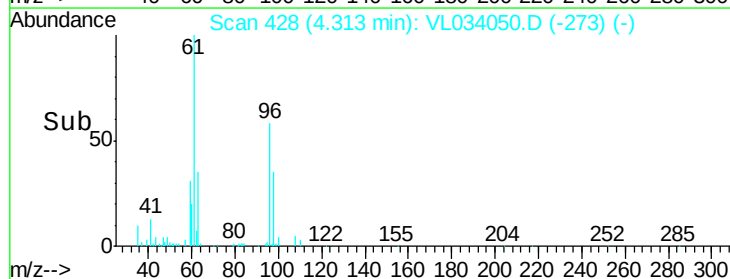
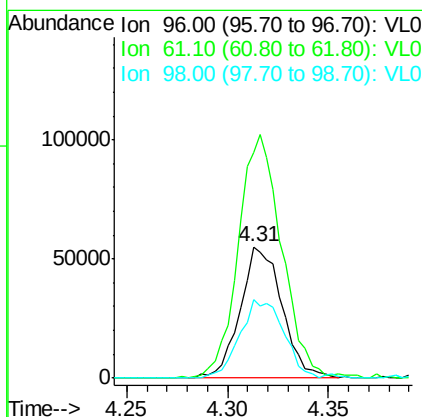
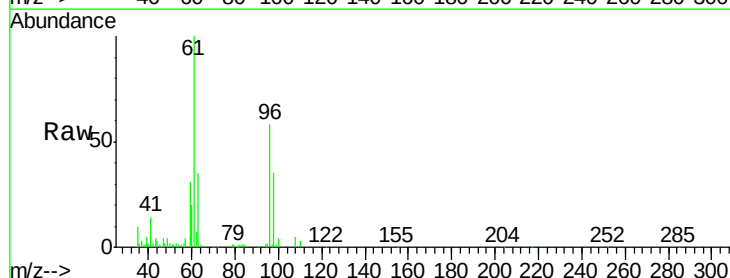
MMdadoda
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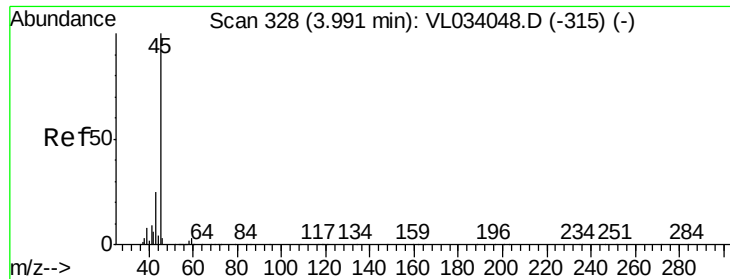


#18

1,1-Dichloroethene
Concen: 0.918 ppbv
RT: 4.31 min Scan# 428
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.0	151.5	227.3
98	60.2	52.2	78.2





#19

Isopropyl Alcohol

Concen: 0.916 ppbv

RT: 4.00 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 130611

Ion Ratio Lower Upper

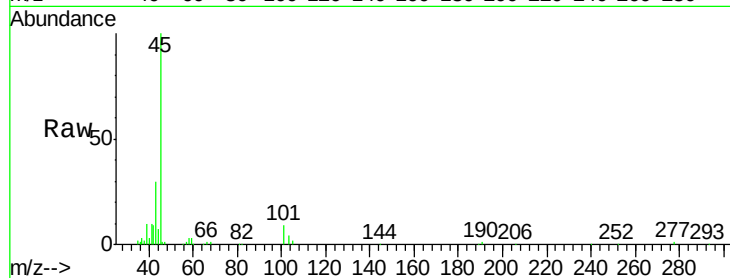
45 100

58 4.0 1.8 2.6#

Manual Integrations
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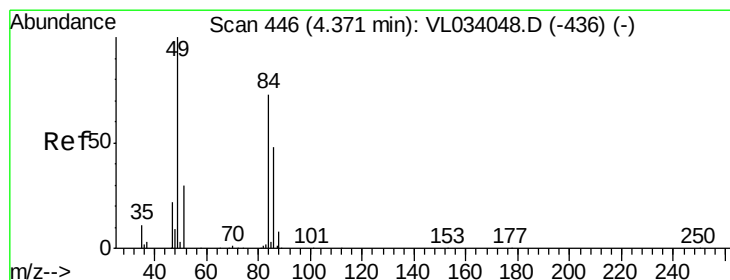
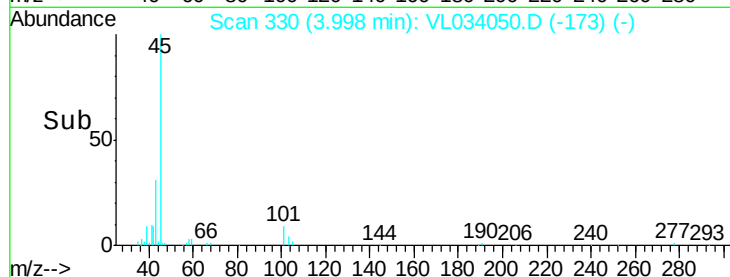
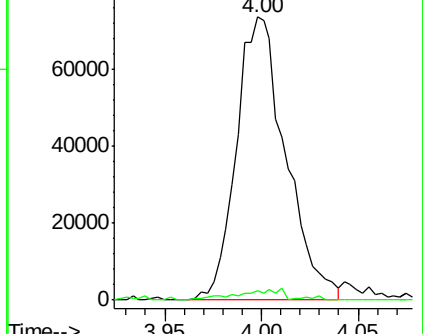
MMdadoda

8/2/2019 9:37:35 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.850 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion: 84 Resp: 74243

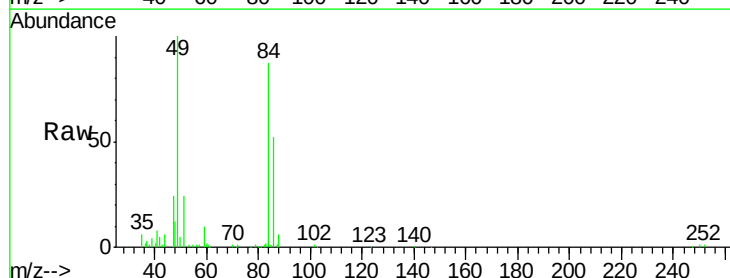
Ion Ratio Lower Upper

84 100

49 111.5 109.6 164.4

51 25.5 33.4 50.2#

86 60.3 52.6 78.8

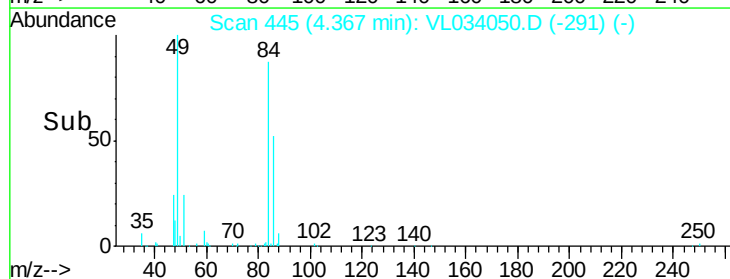
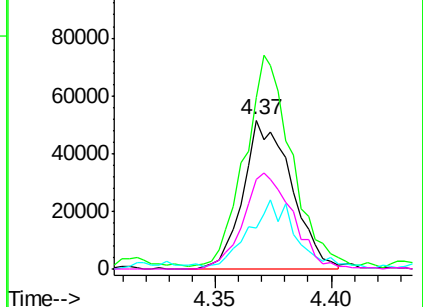


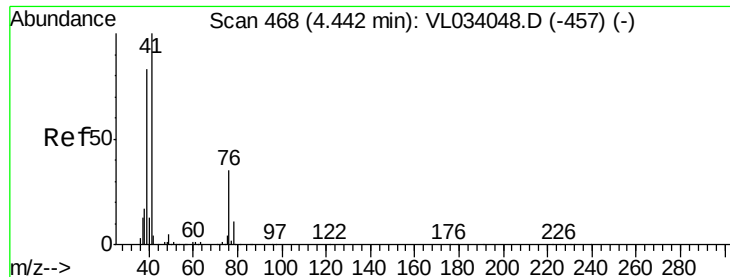
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.946 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

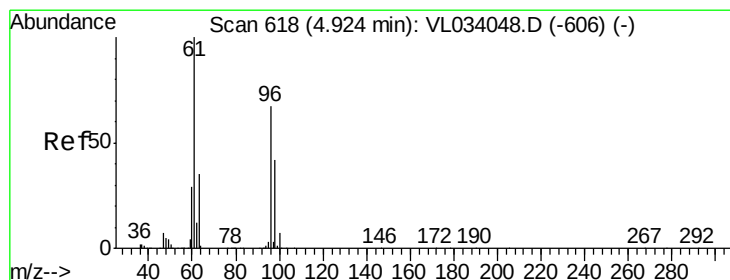
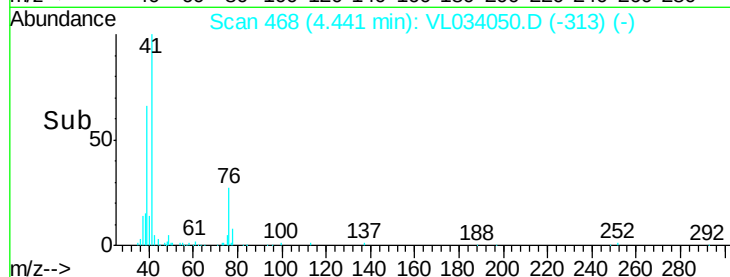
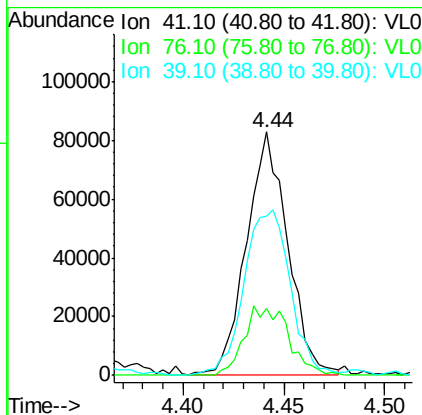
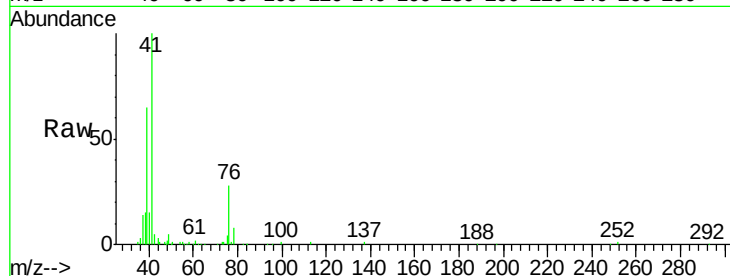
ClientSampleId :

VSTDIC001

Tot Ion:	41	Resp:	118407
Ion Ratio		Lower	Upper
41	100		
76	30.4	26.1	39.1
39	78.8	65.0	97.6

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 0.951 ppbv

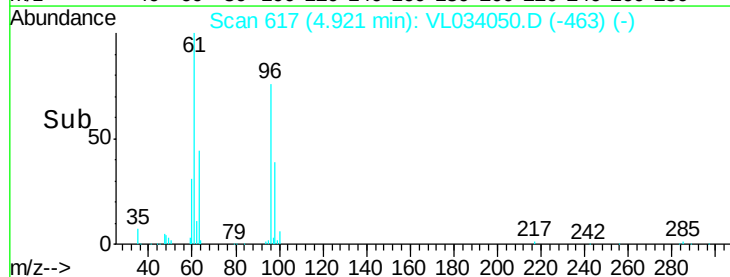
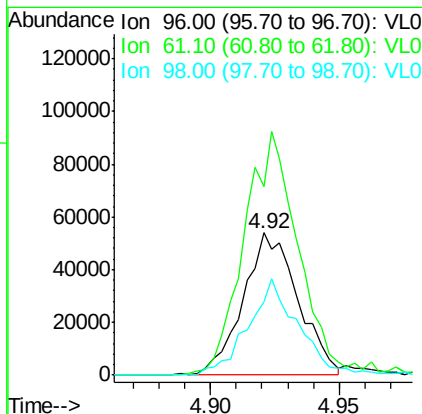
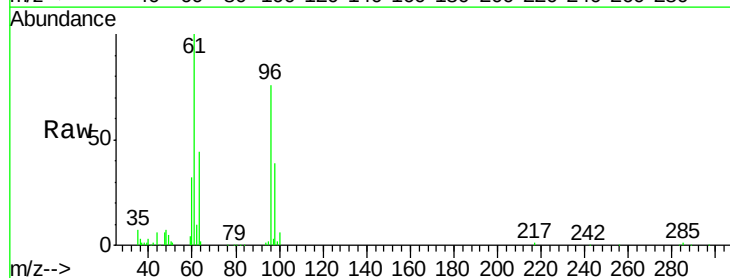
RT: 4.92 min Scan# 617

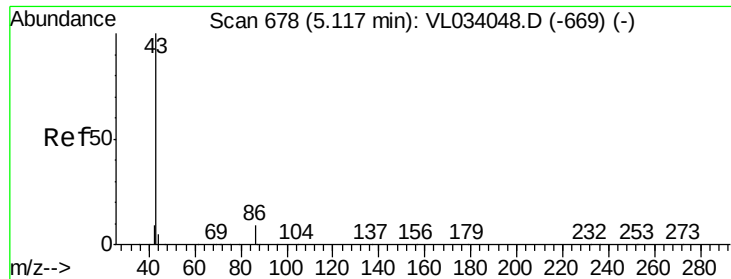
Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:	96	Resp:	79370
Ion Ratio		Lower	Upper
96	100		
61	131.8	118.6	177.8
98	52.1	49.7	74.5





#23

Vinyl Acetate

Concen: 1.030 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

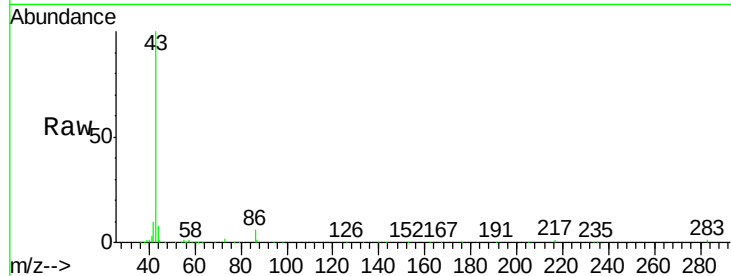
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
86	5.7	6.5	9.7#
42	9.7	8.3	12.5
44	7.9	4.0	6.0#

Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:35 AM

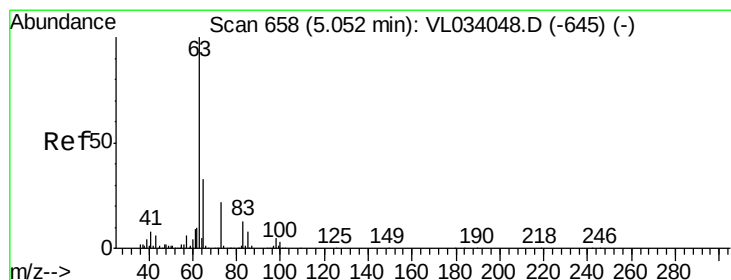
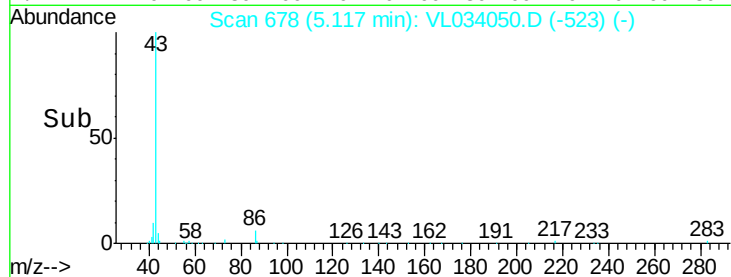
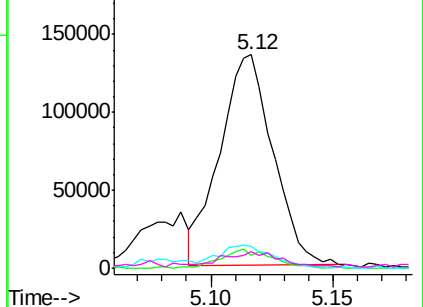


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 1.045 ppbv

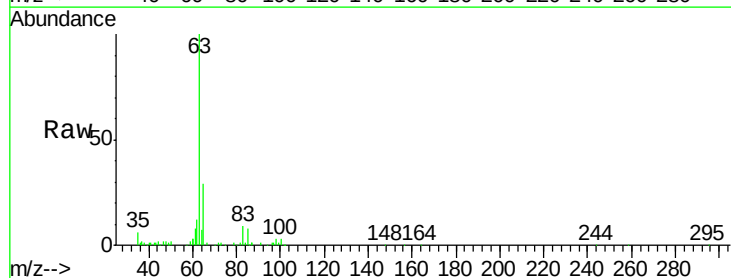
RT: 5.05 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

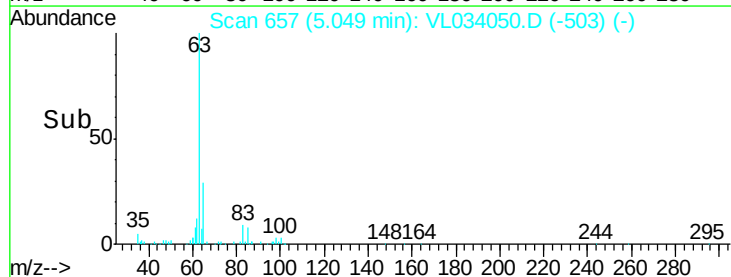
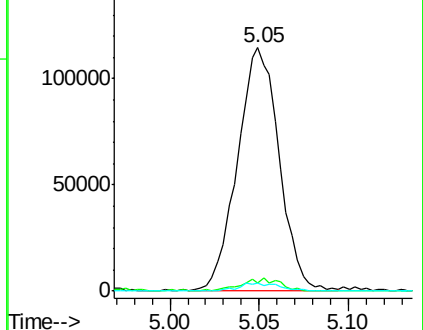
Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.4	7.2
100	3.5	1.3	3.9

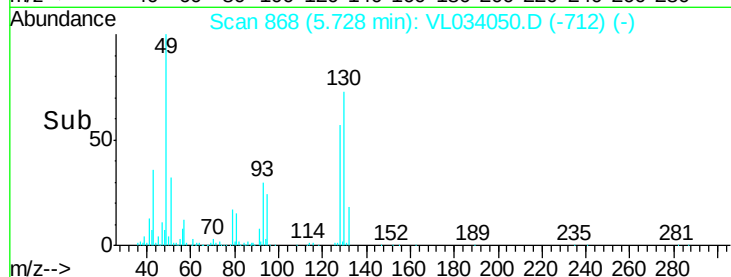
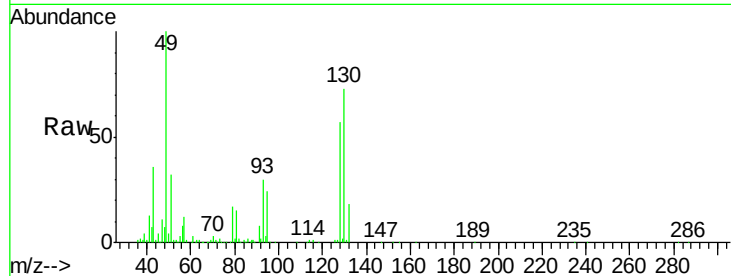
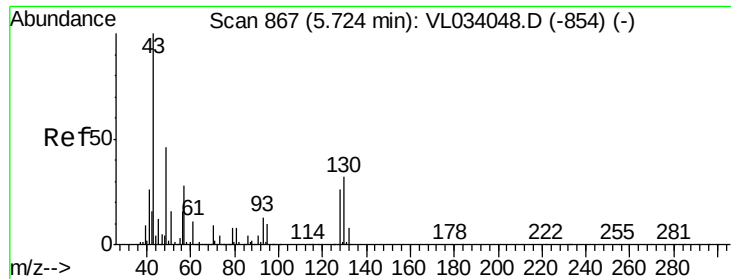


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

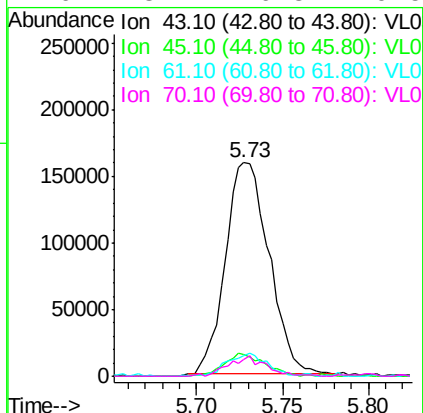
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 1.023 ppbv
RT: 5.73 min Scan# 868
Delta R.T. 0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

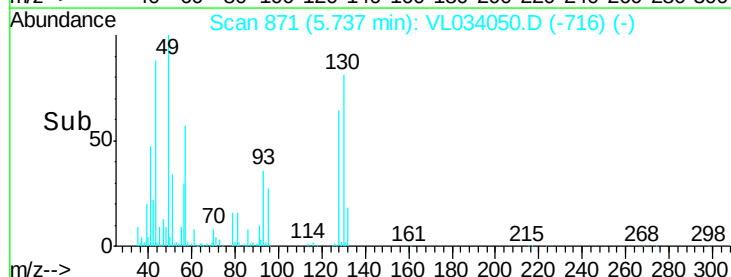
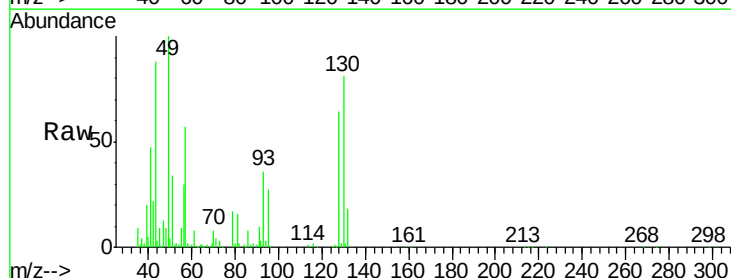
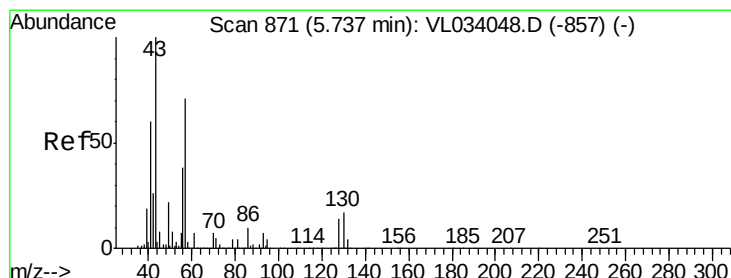
Tot Ion	Ratio	Lower	Upper
43	100		
45	10.7	8.1	12.1
61	10.1	8.1	12.1
70	8.1	6.3	9.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

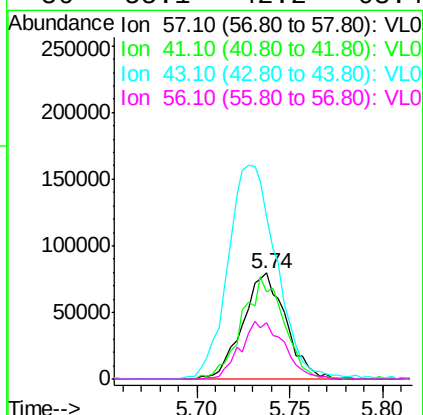
Manual Integrations
APPROVED

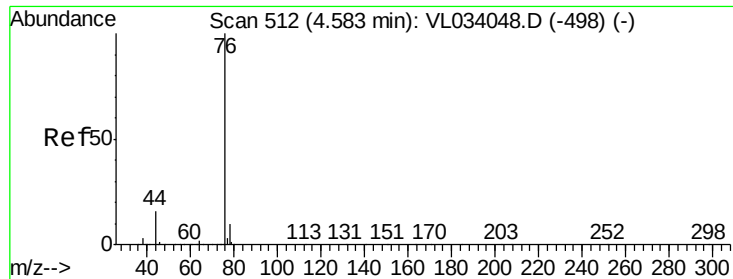
MMdadoda
8/2/2019 9:37:35 AM



#26
Hexane
Concen: 1.013 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.9	69.0	103.6
43	230.5	176.6	264.8
56	55.1	42.2	63.4





#27

Carbon Disulfide

Concen: 0.866 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

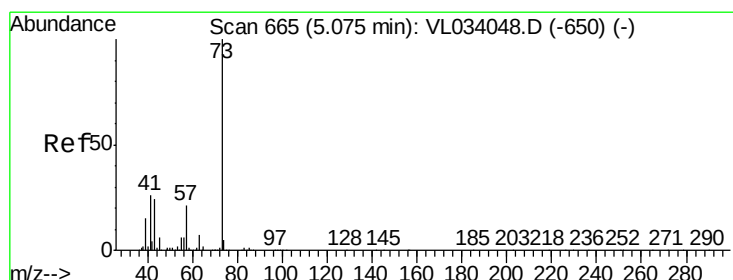
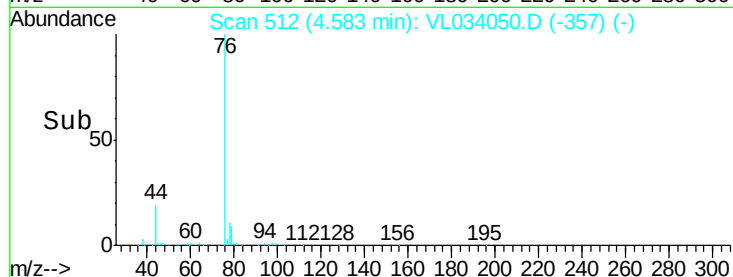
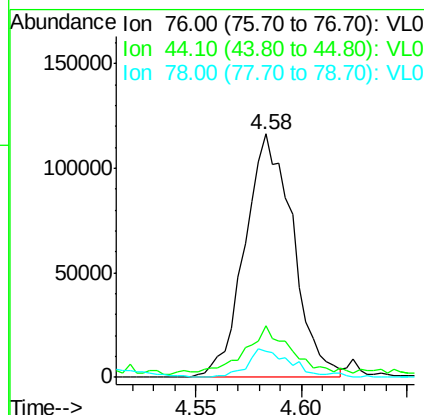
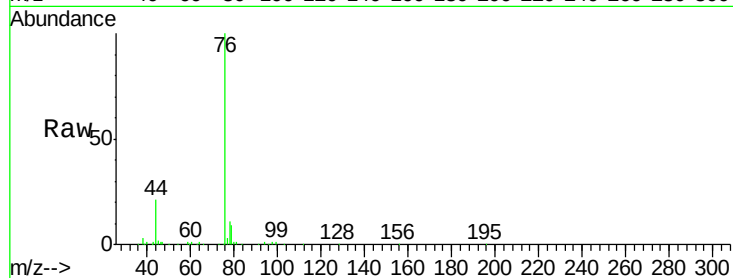
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	184043
Ion Ratio	Lower	Upper	
76	100		
44	20.9	13.0	19.4#
78	10.9	7.7	11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 1.001 ppbv

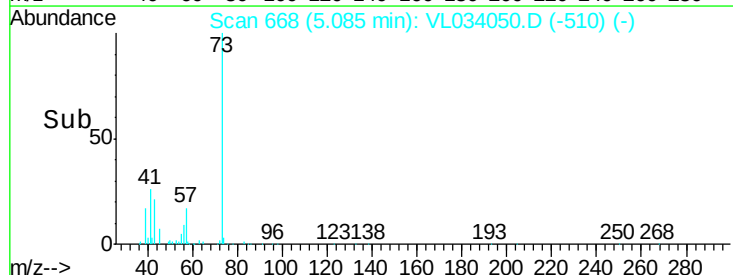
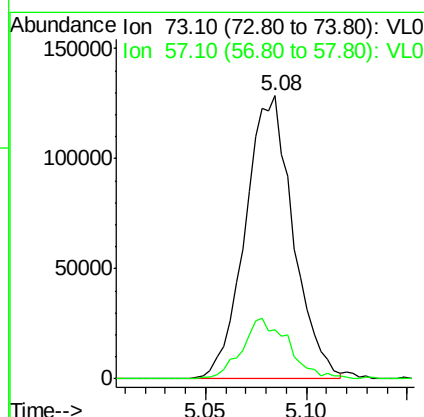
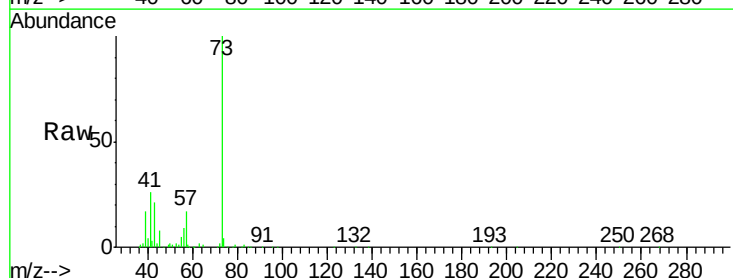
RT: 5.08 min Scan# 668

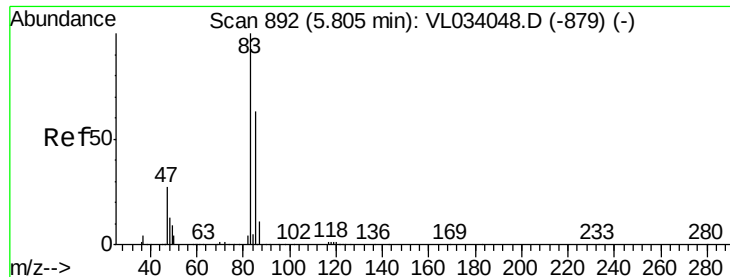
Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:	73	Resp:	213191
Ion Ratio	Lower	Upper	
73	100		
57	21.1	17.2	25.8





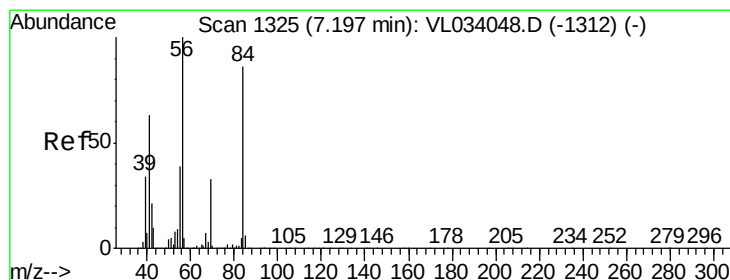
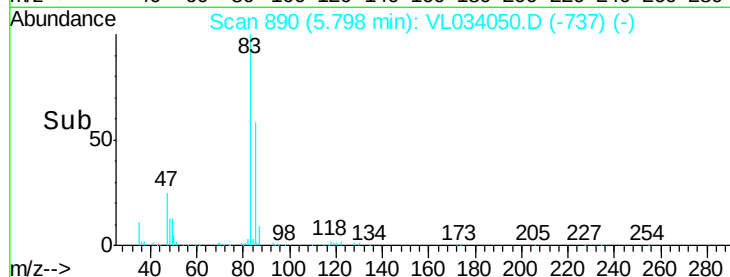
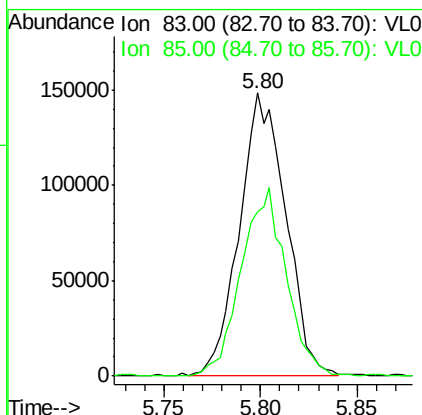
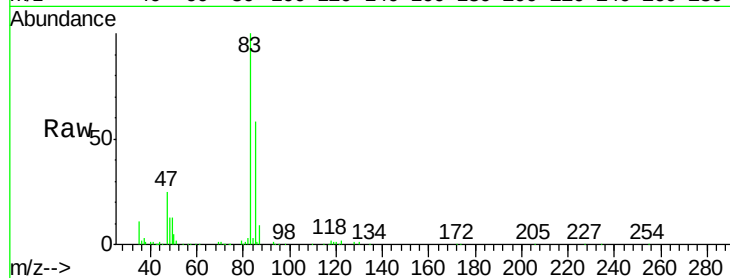
#29
Chloroform
Concen: 1.037 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	245483
Ion Ratio	Lower	Upper	
83	100		
85	58.2	50.2	75.4

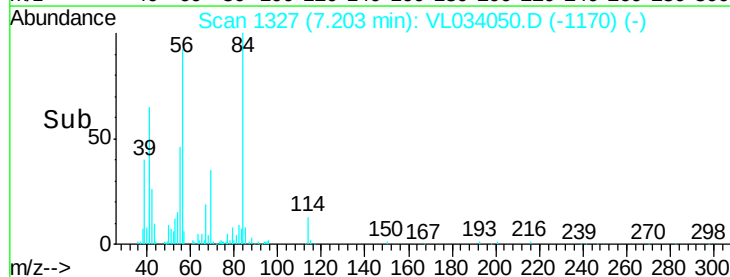
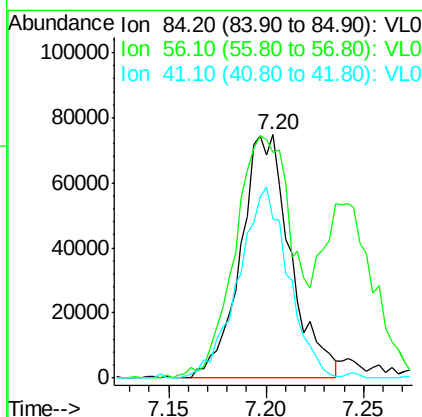
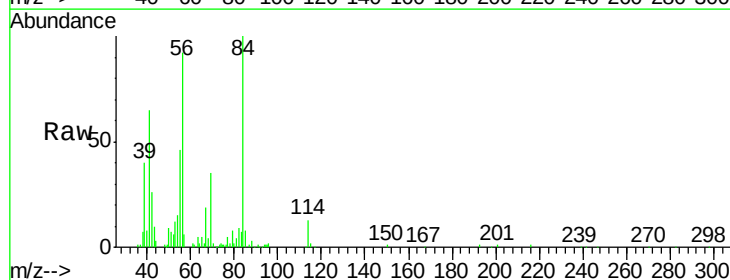
Manual Integrations
APPROVED

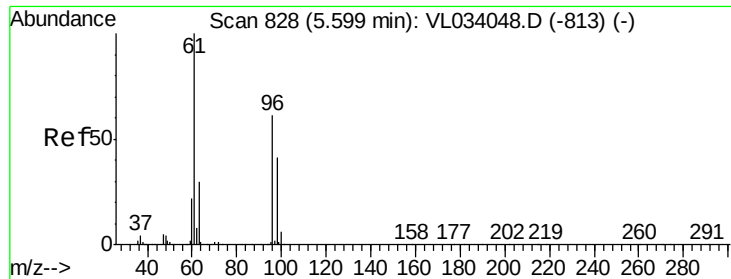
MMdadoda
8/2/2019 9:37:35 AM



#30
Cyclohexane
Concen: 1.292 ppbv m
RT: 7.20 min Scan# 1327
Delta R.T. 0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	84	Resp	133455
Ion Ratio	Lower	Upper	
84	100		
56	115.8	101.7	152.5
41	0.0	59.4	89.0#





#31

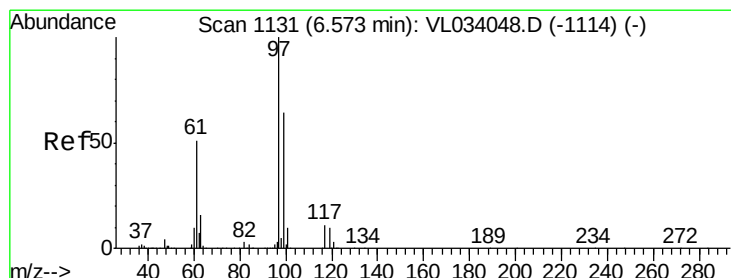
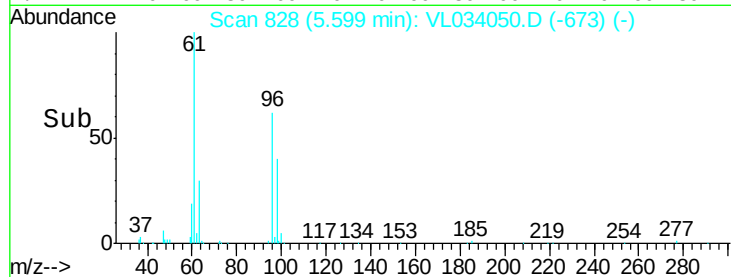
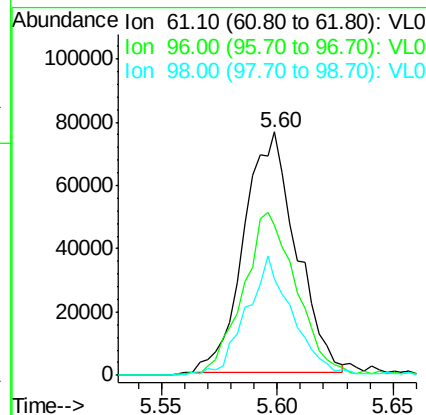
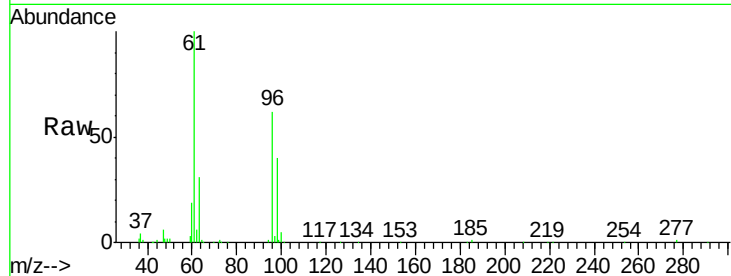
cis-1,2-Dichloroethene
Concen: 0.989 ppbv
RT: 5.60 min Scan# 828
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.1	49.1	73.7
98	39.1	32.5	48.7

Manual Integrations
APPROVED

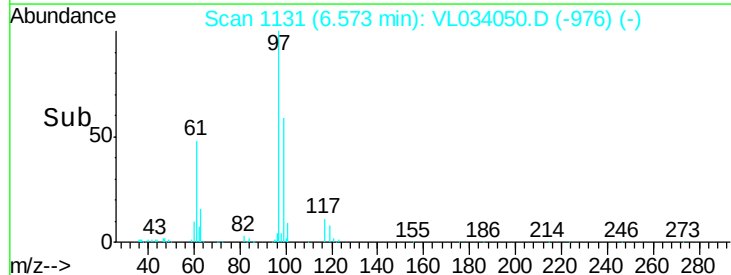
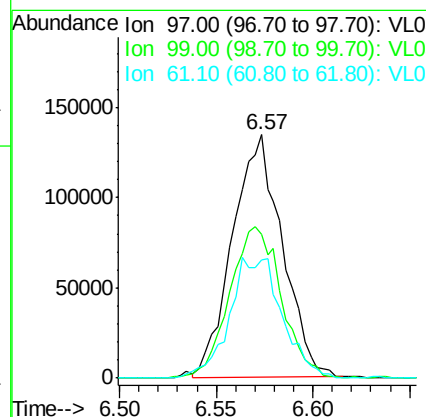
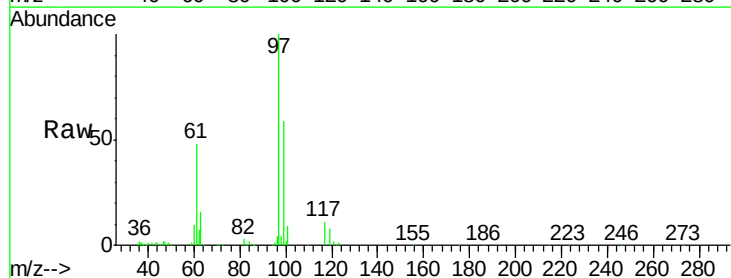
MMdadoda
8/2/2019 9:37:35 AM

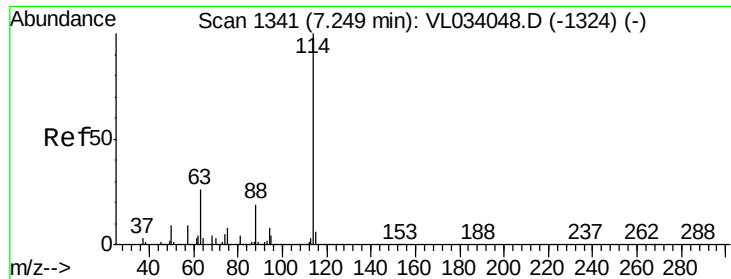


#32

1,1,1-Trichloroethane
Concen: 1.001 ppbv
RT: 6.57 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.0	76.6
61	52.7	39.5	59.3





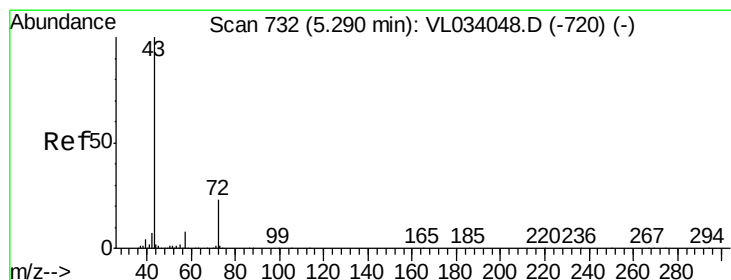
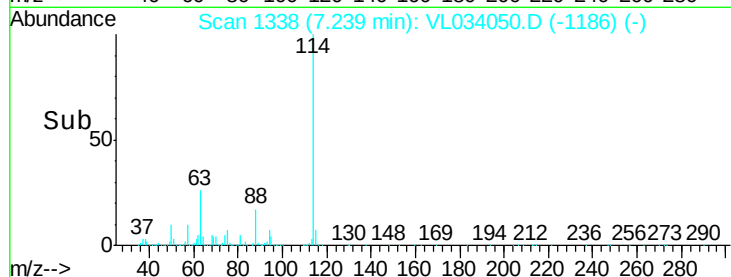
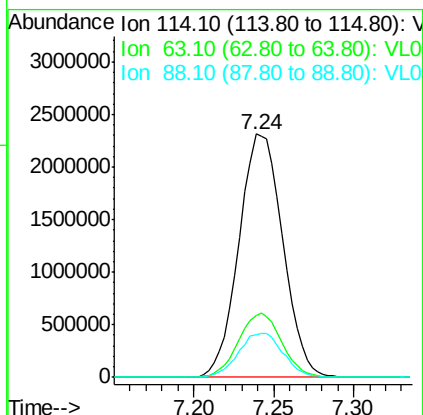
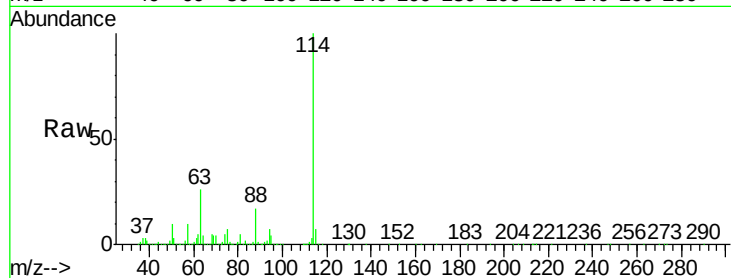
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.0	31.6
88	18.4	14.7	22.1

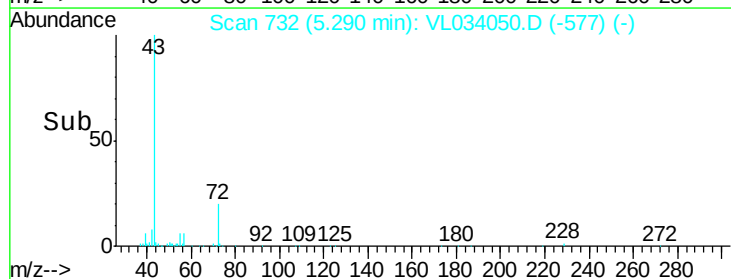
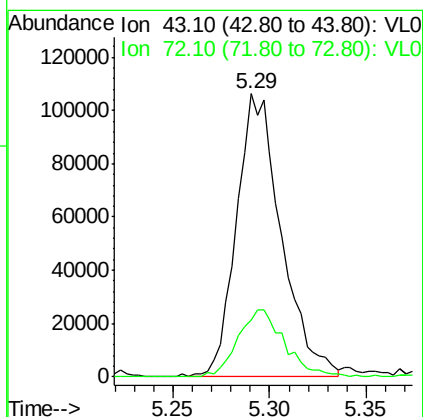
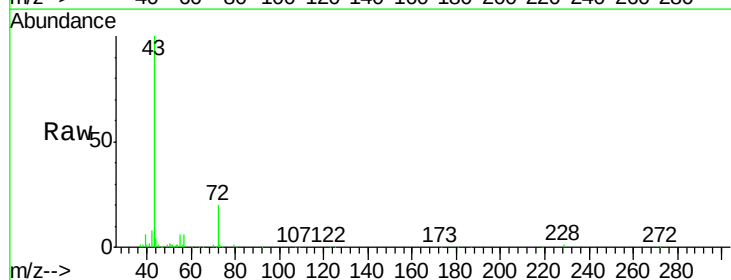
Manual Integrations
 APPROVED

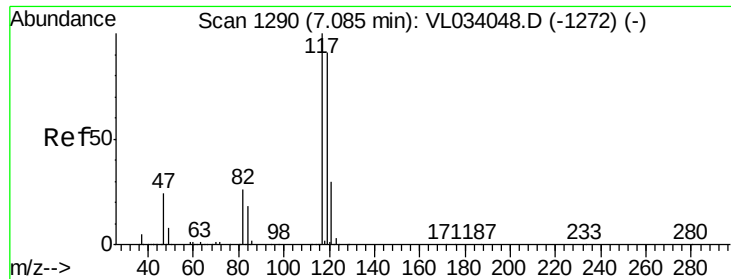
MMdadoda
 8/2/2019 9:37:35 AM



#34
 2-Butanone
 Concen: 0.790 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.2	30.4





#35

Carbon Tetrachloride

Concen: 0.803 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

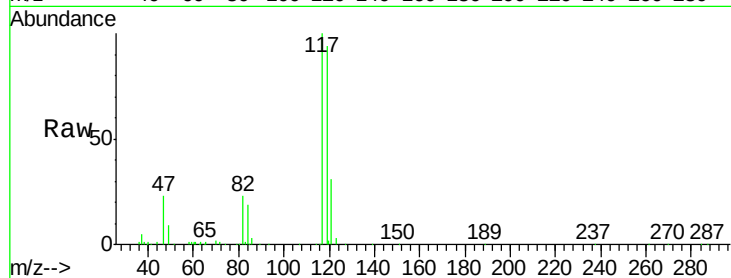
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	262740
Ion Ratio	Lower	Upper	
117	100		
119	93.5	73.2	109.8
121	30.7	24.0	36.0

Manual Integrations
APPROVED

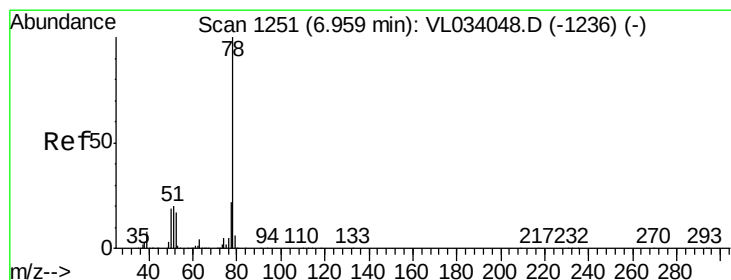
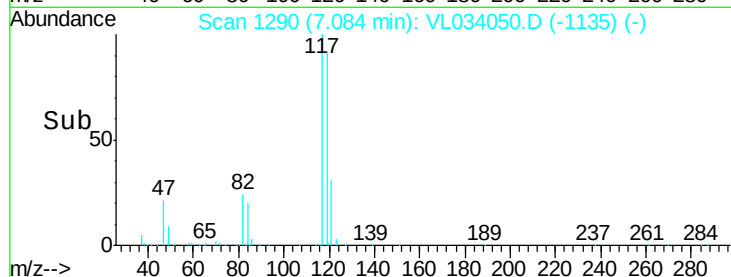
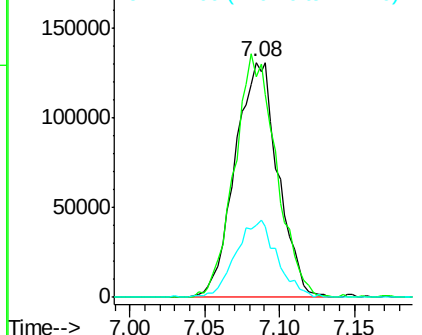
MMdadoda
8/2/2019 9:37:35 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.848 ppbv

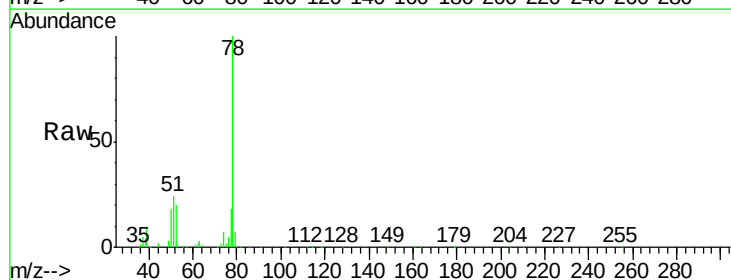
RT: 6.95 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

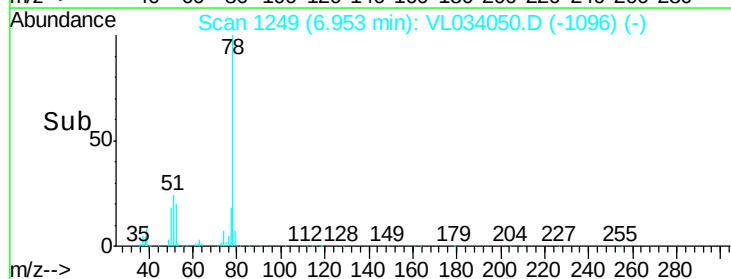
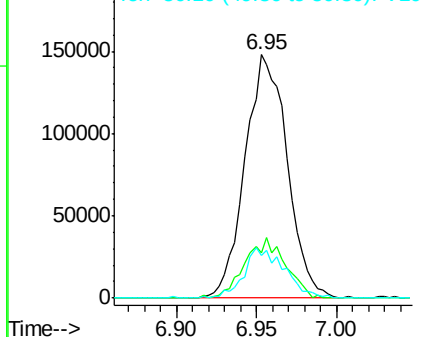
Tgt Ion:	78	Resp:	266670
Ion Ratio	Lower	Upper	
78	100		
77	18.4	17.9	26.9
50	17.5	14.9	22.3

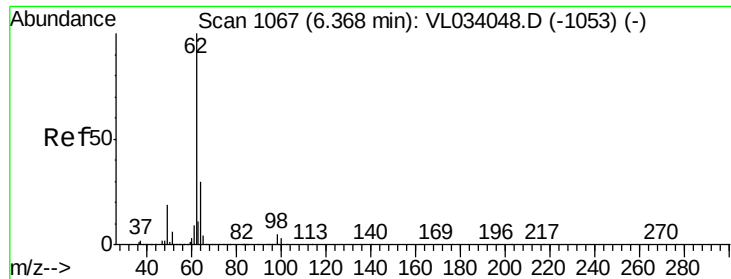


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





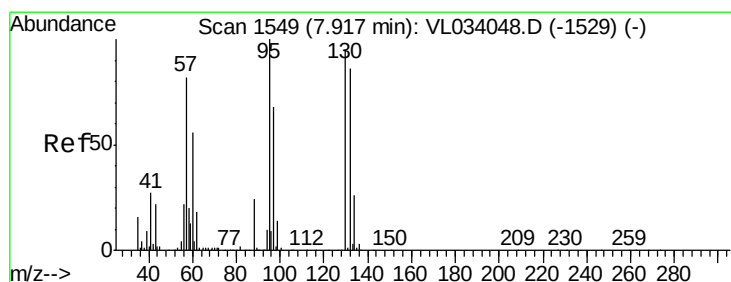
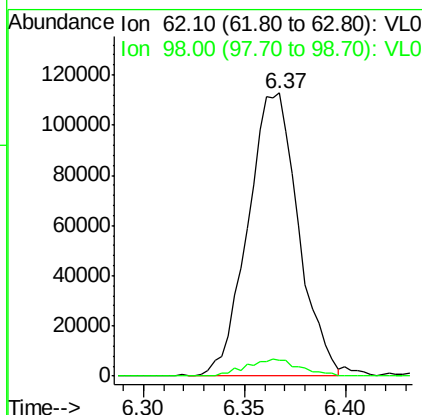
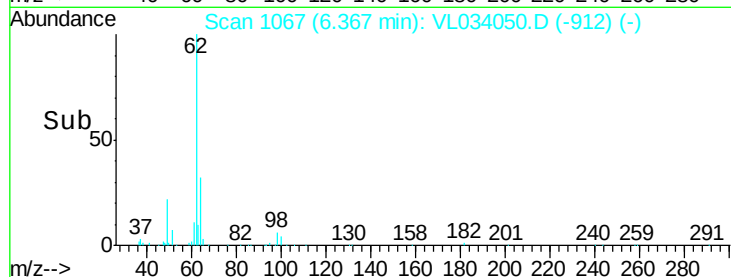
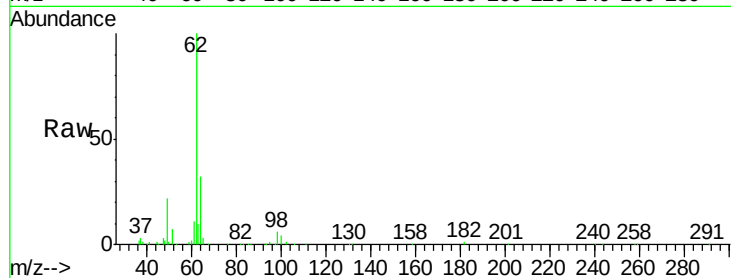
#37
 1,2-Dichloroethane
 Concen: 0.842 ppbv
 RT: 6.37 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.3	4.2	6.2#

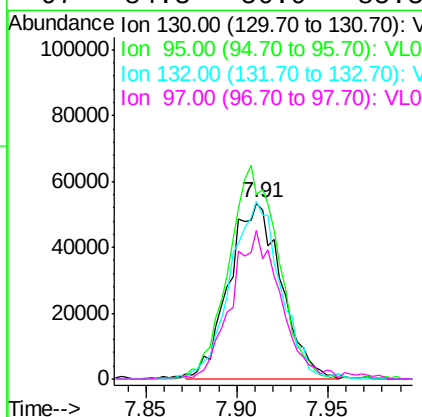
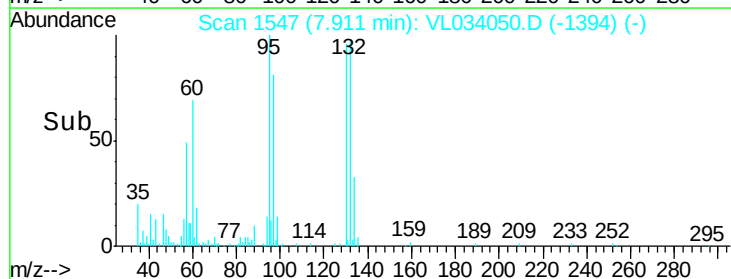
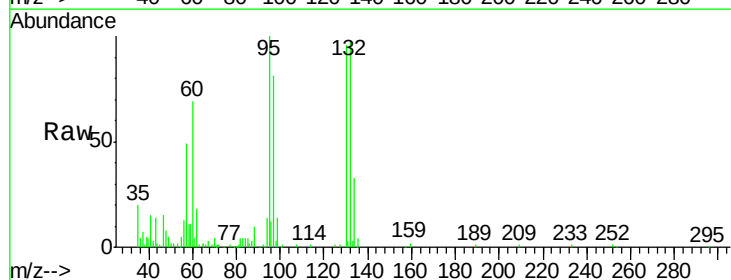
Manual Integrations
 APPROVED

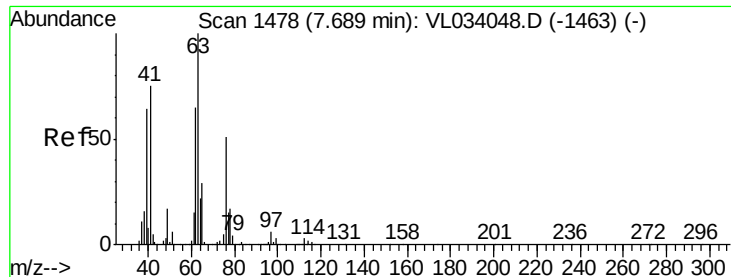
MMdadoda
 8/2/2019 9:37:35 AM



#38
 Trichloroethene
 Concen: 0.744 ppbv m
 RT: 7.91 min Scan# 1547
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.6	84.1	126.1
132	101.3	72.7	109.1
97	84.3	56.9	85.3





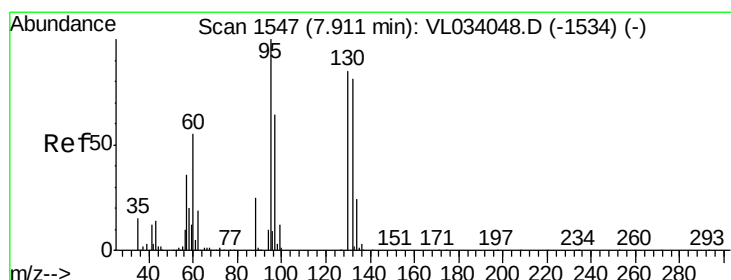
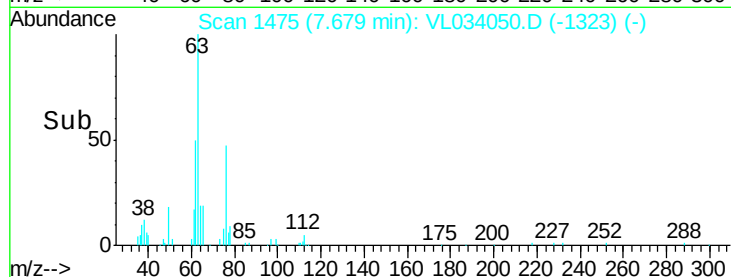
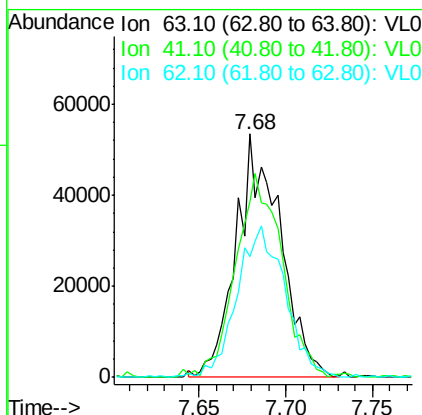
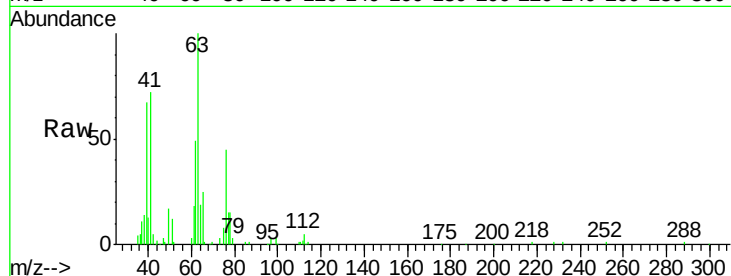
#39
 1,2-Dichloropropane
 Concen: 0.799 ppbv m
 RT: 7.68 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.2	59.8	89.8
62	49.5	52.2	78.2#

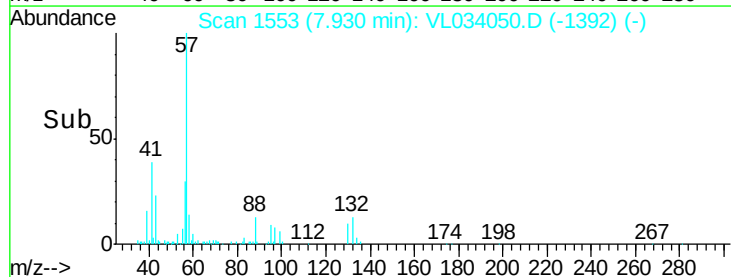
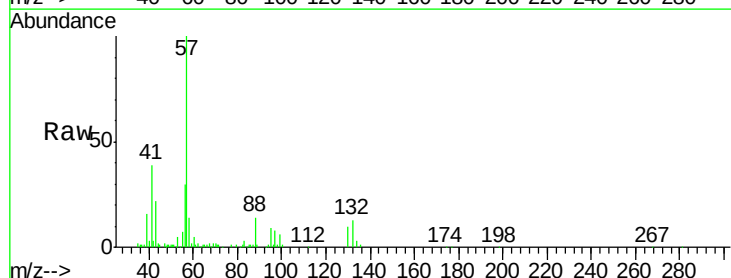
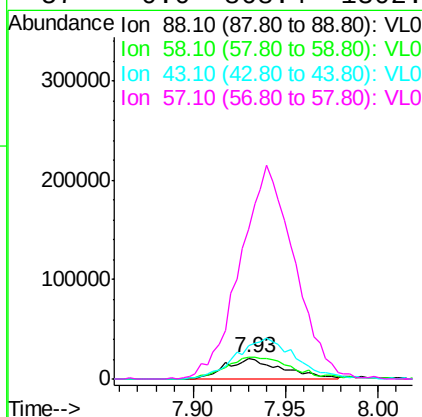
Manual Integrations
 APPROVED

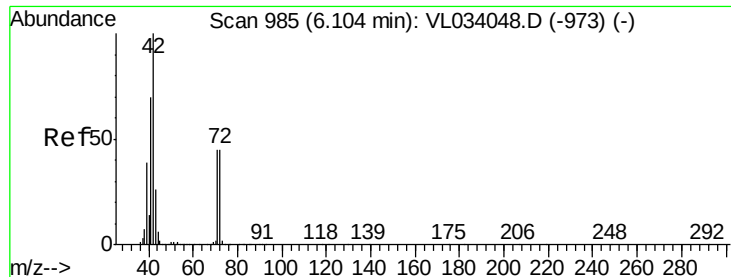
MMdadoda
 8/2/2019 9:37:35 AM



#40
 1,4-Dioxane
 Concen: 0.819 ppbv m
 RT: 7.93 min Scan# 1553
 Delta R.T. 0.02 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

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





#41

Tetrahydrofuran

Concen: 0.816 ppbv

RT: 6.12 min Scan# 990

Delta R.T. 0.02 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

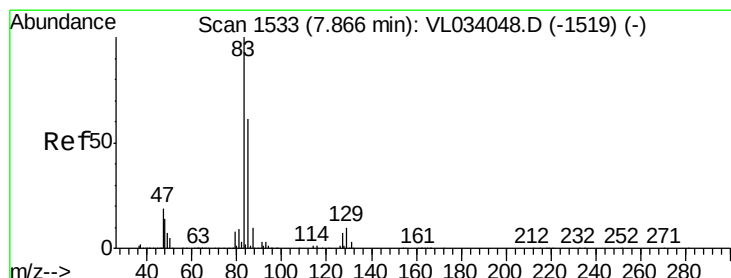
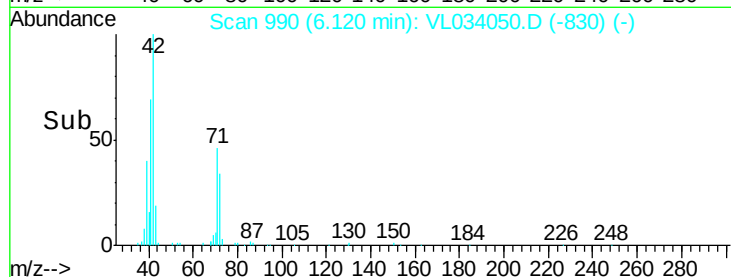
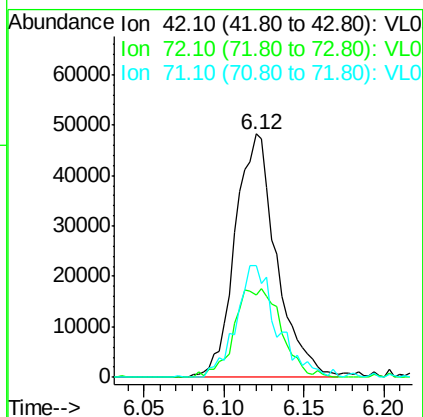
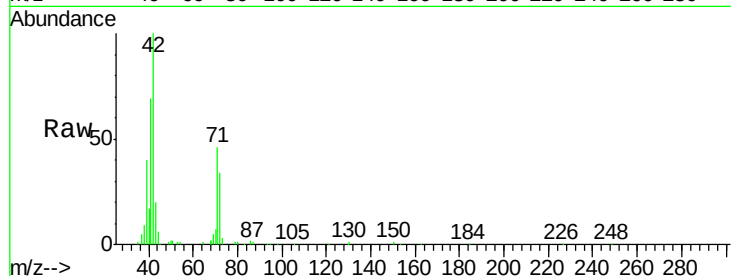
ClientSampleId :

VSTDIC001

Tot Ion:	42	Resp:	85120
Ion	Ratio	Lower	Upper
42	100		
72	41.3	36.9	55.3
71	45.3	36.6	54.8

Manual Integrations
APPROVED

MMdadoda
8/2/2019 9:37:35 AM



#42

Bromodichloromethane

Concen: 0.790 ppbv

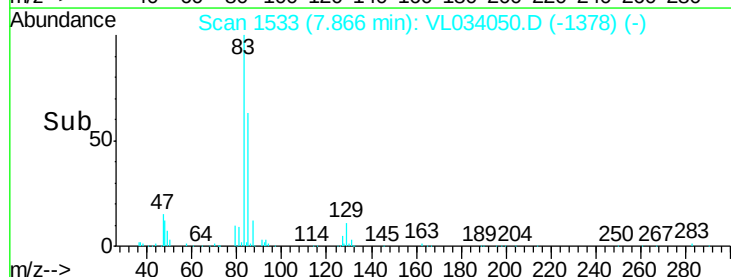
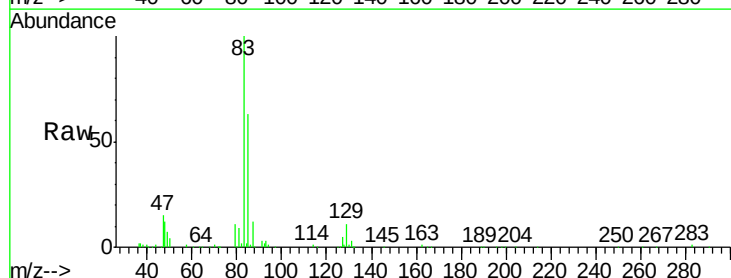
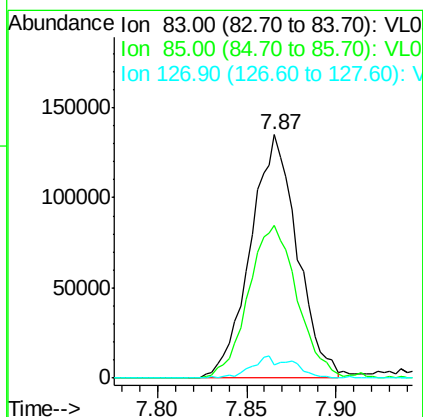
RT: 7.87 min Scan# 1533

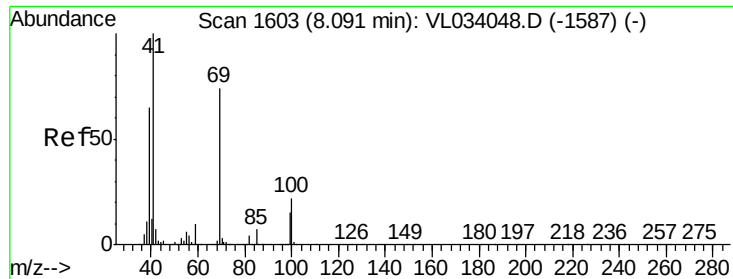
Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:	83	Resp:	247292
Ion	Ratio	Lower	Upper
83	100		
85	62.7	48.6	73.0
127	5.2	5.5	8.3#





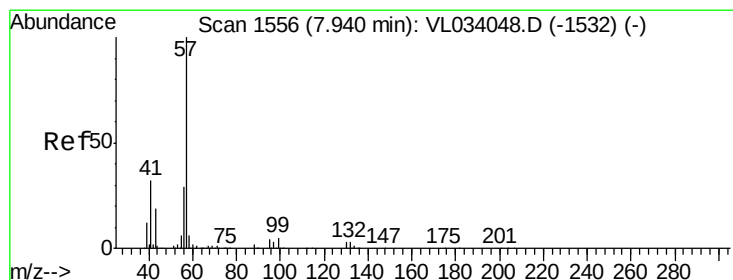
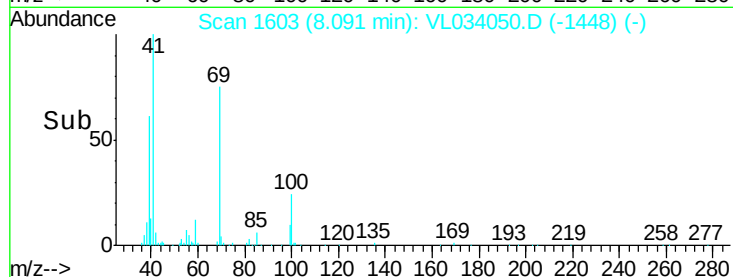
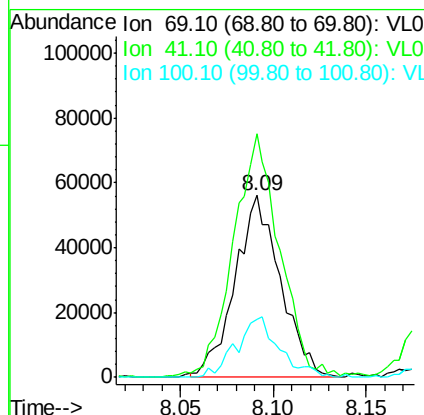
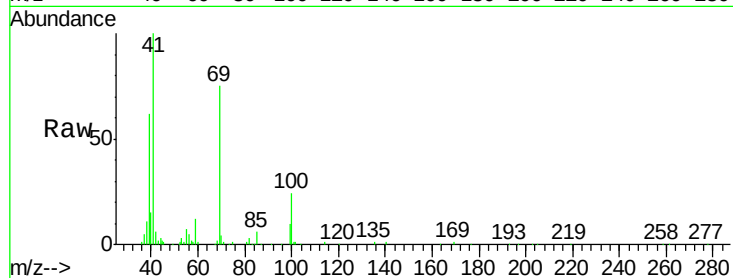
#43
Methyl Methacrylate
Concen: 0.797 ppbv
RT: 8.09 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	138.2	112.8	169.2		
100	32.1	26.1	39.1		

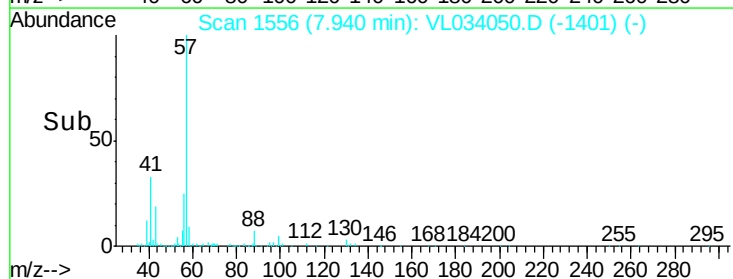
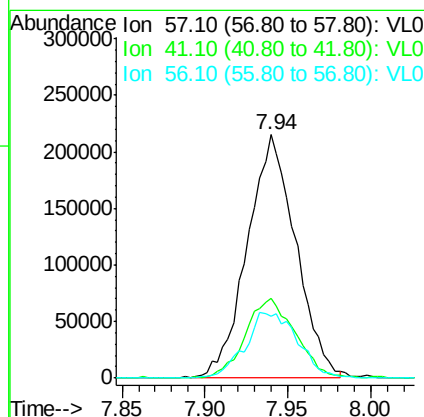
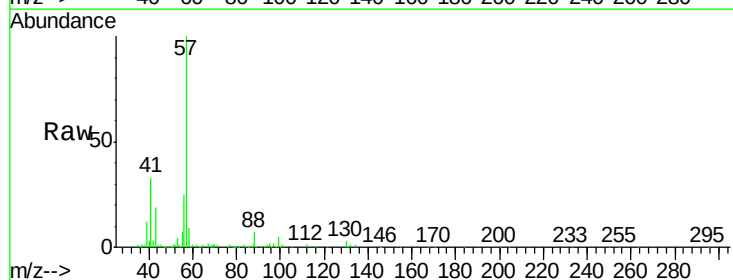
Manual Integrations
APPROVED

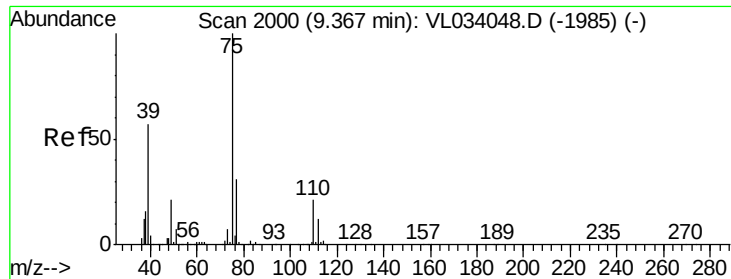
MMDadoda
8/2/2019 9:37:35 AM



#44
2,2,4-Trimethylpentane
Concen: 0.798 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	34.4	26.2	39.2		
56	29.5	24.2	36.2		





#45

t-1,3-Dichloropropene

Concen: 0.747 ppbv

RT: 9.36 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 114966

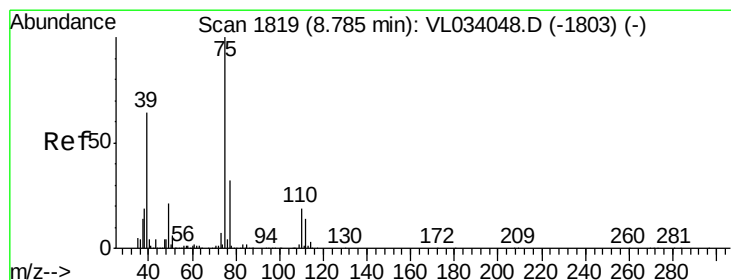
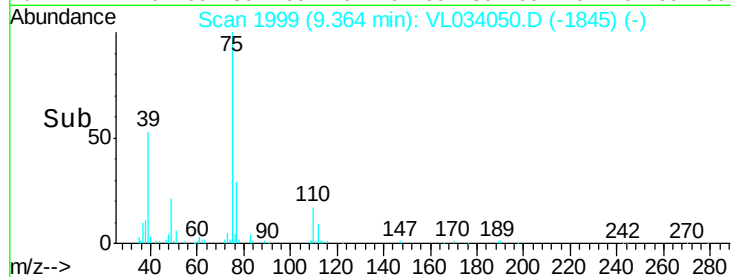
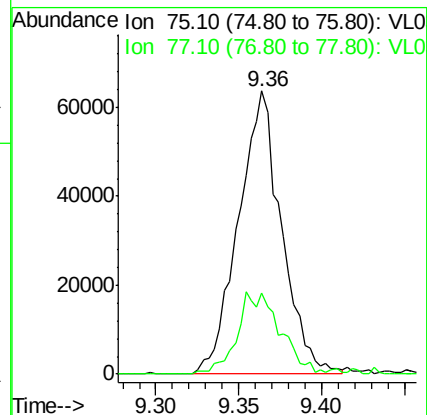
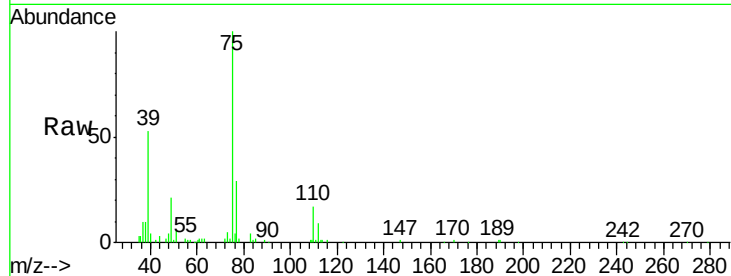
Ion Ratio Lower Upper

75 100

77 30.6 24.6 37.0

Manual Integrations
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MMdadoda
8/2/2019 9:37:35 AM



#46

cis-1,3-Dichloropropene

Concen: 0.707 ppbv

RT: 8.79 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

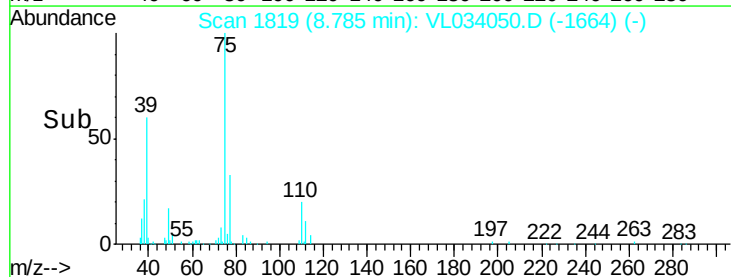
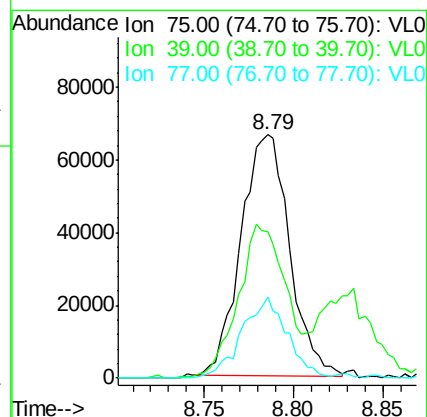
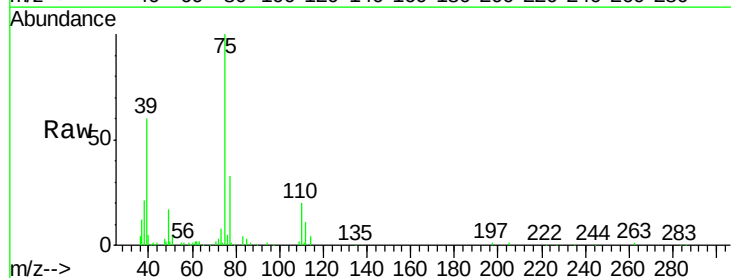
Tgt Ion: 75 Resp: 126921

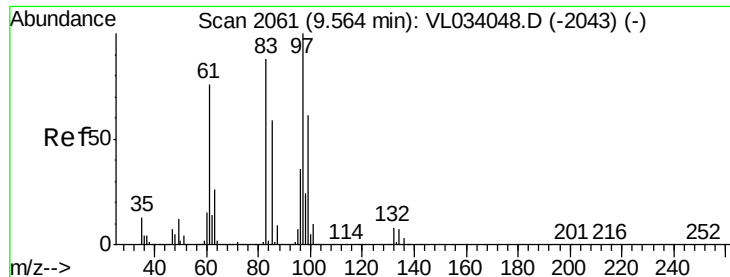
Ion Ratio Lower Upper

75 100

39 59.9 51.4 77.2

77 33.7 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 0.824 ppbv m

RT: 9.57 min Scan# 2062

Delta R.T. 0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

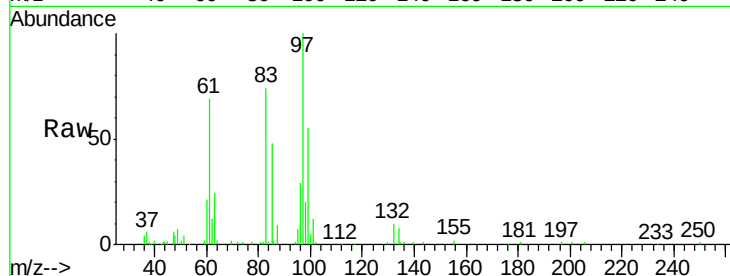
VSTDIC001

Tot Ion: 97 Resp: 121767

Ion	Ratio	Lower	Upper
97	100		
83	74.2	70.6	106.0
85	48.0	47.3	70.9
99	55.3	48.6	72.8

Manual Integrations
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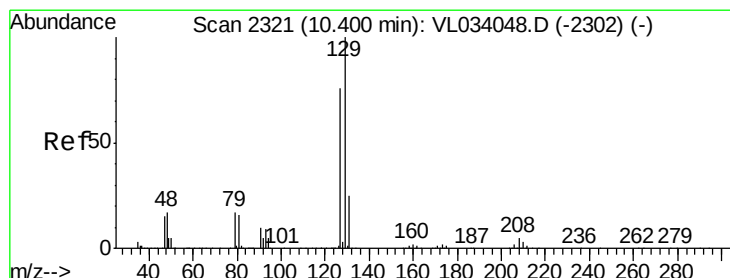
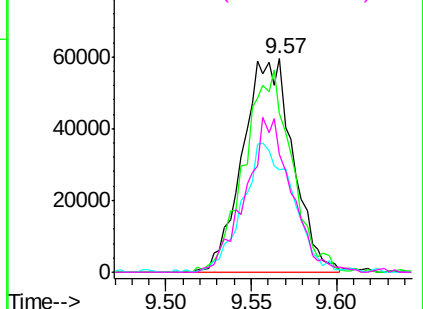
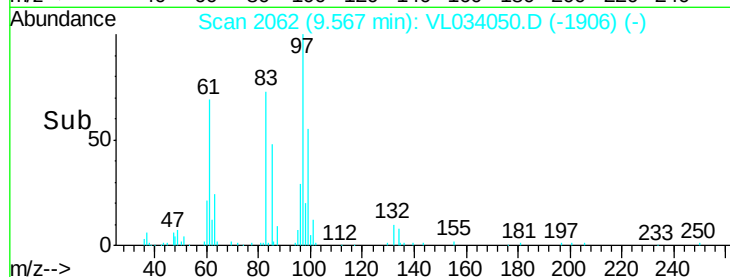


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.678 ppbv m

RT: 10.39 min Scan# 2318

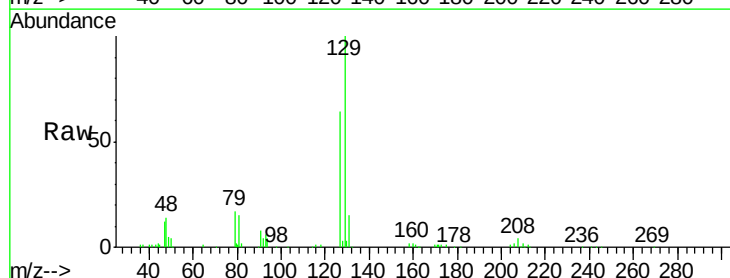
Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

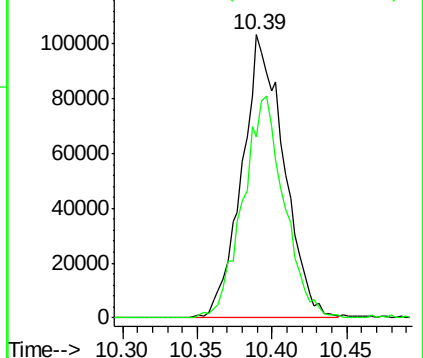
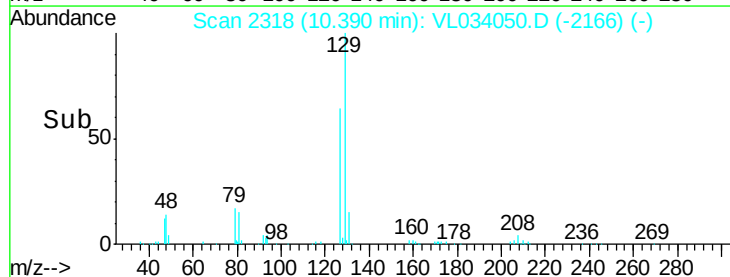
Tgt Ion: 129 Resp: 201662

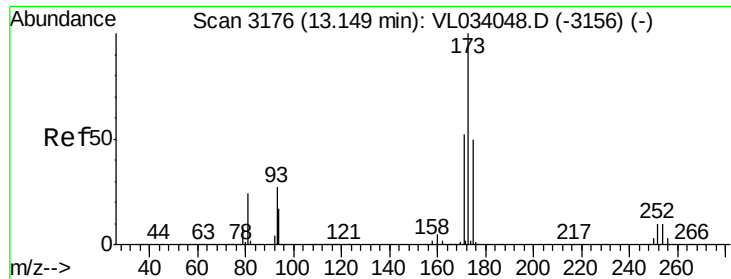
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.6	115.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.769 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

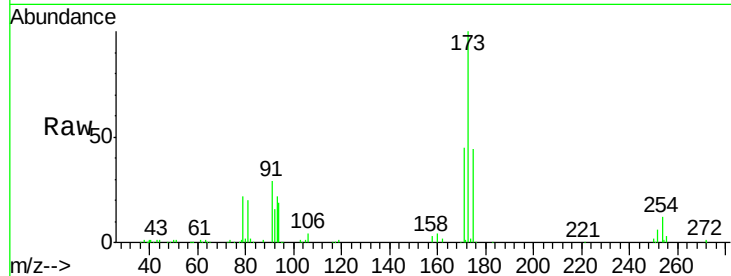
ClientSampleId :

VSTDIC001

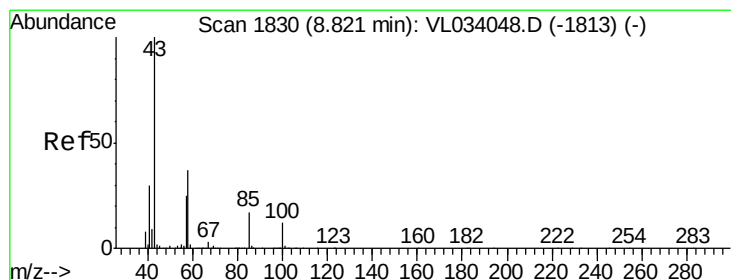
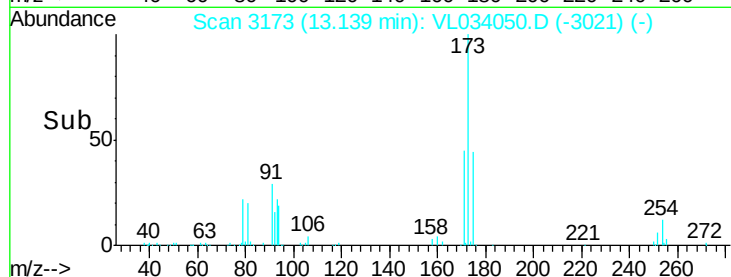
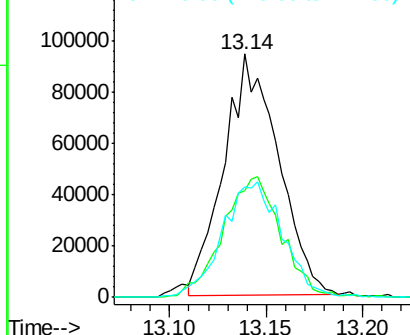
Tot Ion:	173	Resp:	185516
Ion	Ratio	Lower	Upper
173	100		
175	53.9	39.4	59.0
171	52.5	41.9	62.9

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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: 0.785 ppbv m

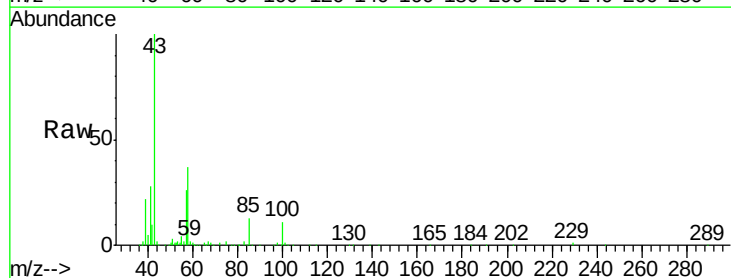
RT: 8.83 min Scan# 1834

Delta R.T. 0.01 min

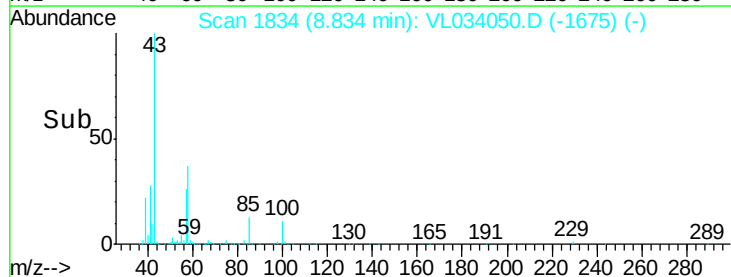
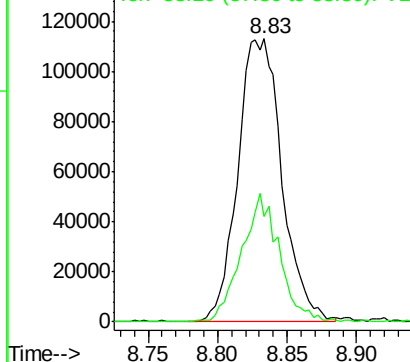
Lab File: VL034050.D

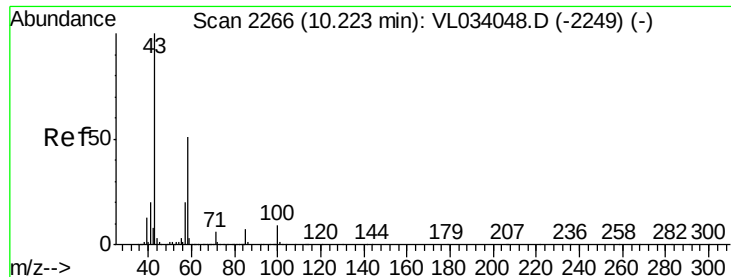
Acq: 30 Jul 2019 3:26

Tgt Ion:	43	Resp:	248191
Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.7	46.1#



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





#51

2-Hexanone

Concen: 0.698 ppbv

RT: 10.23 min Scan# 2269

Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

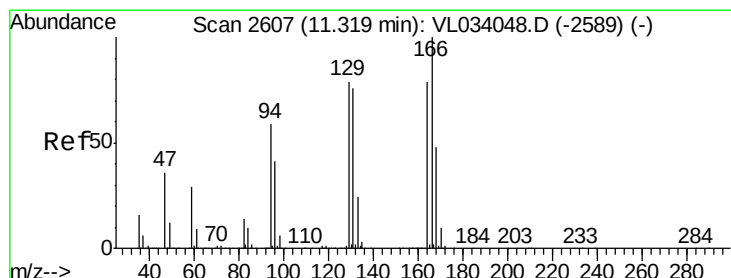
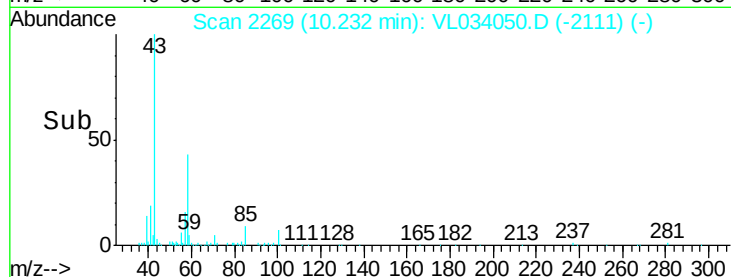
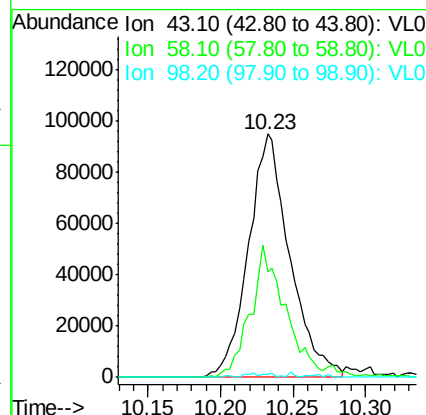
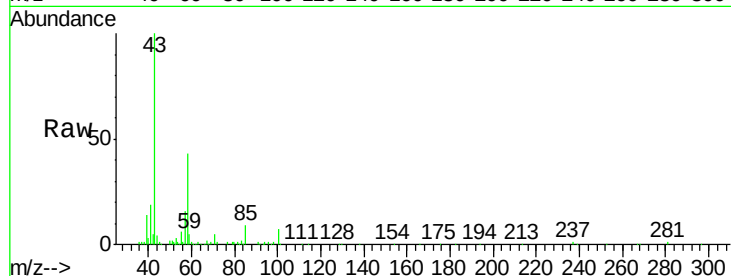
ClientSampleId :

VSTDIC001

Tot Ion:	43	Resp:	188643
Ion Ratio		Lower	Upper
43	100		
58	47.8	40.2	60.2
98	1.0	0.4	0.6

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.761 ppbv m

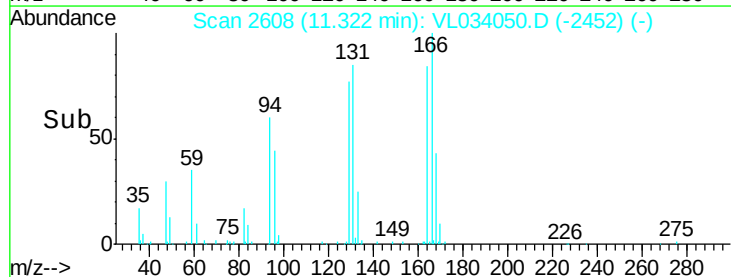
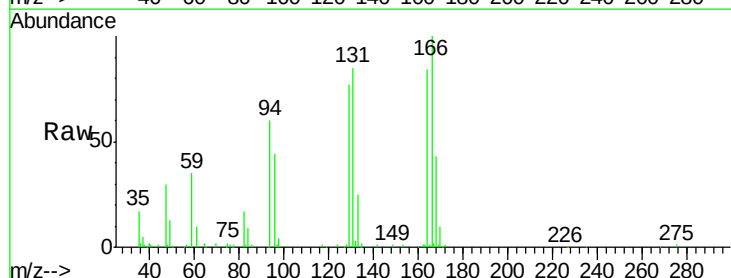
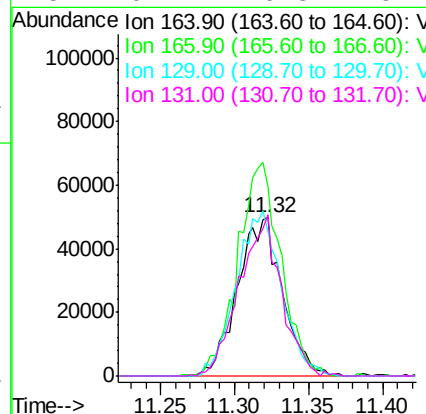
RT: 11.32 min Scan# 2608

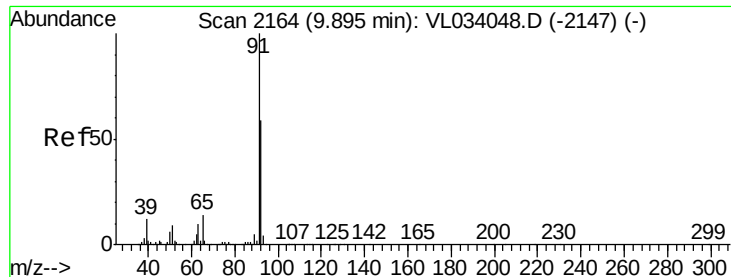
Delta R.T. 0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:	164	Resp:	105198
Ion Ratio		Lower	Upper
164	100		
166	119.1	101.6	152.4
129	91.2	80.7	121.1
131	101.7	76.8	115.2





#53

Toluene

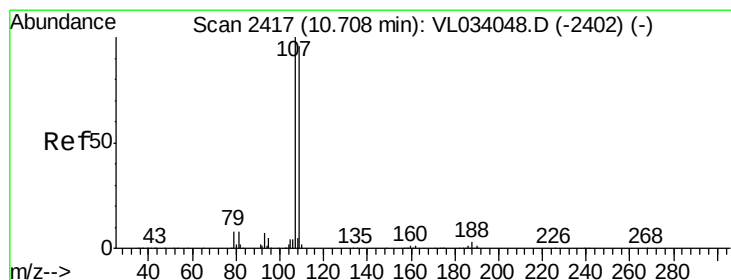
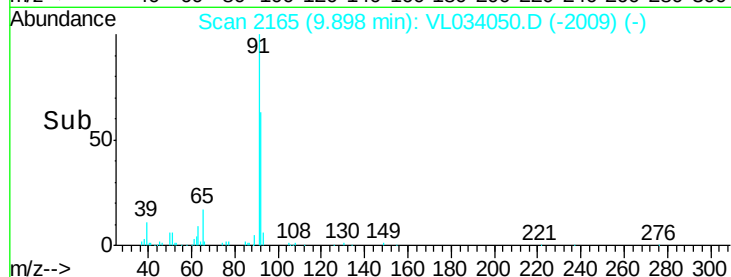
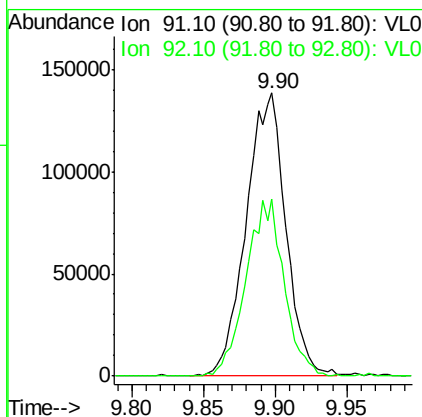
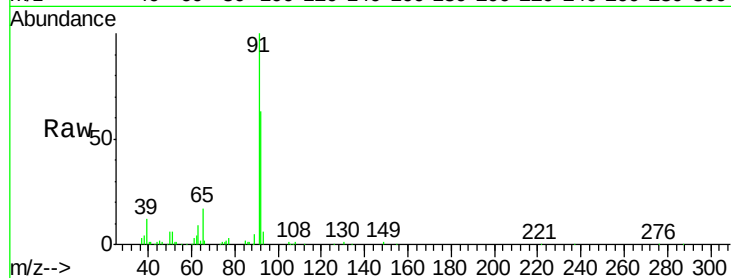
Concen: 0.744 ppbv m
RT: 9.90 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.2#

Manual Integrations
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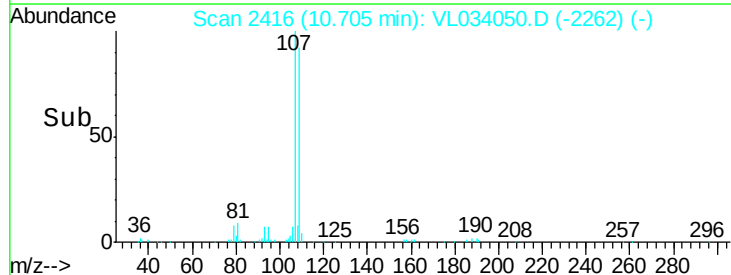
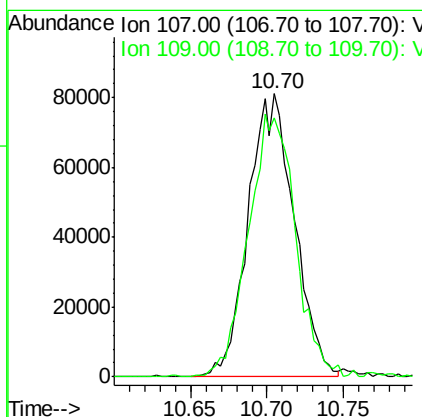
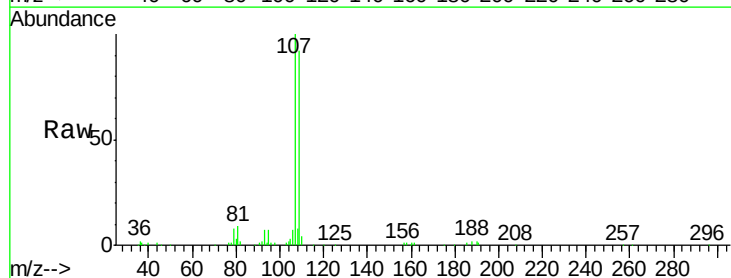


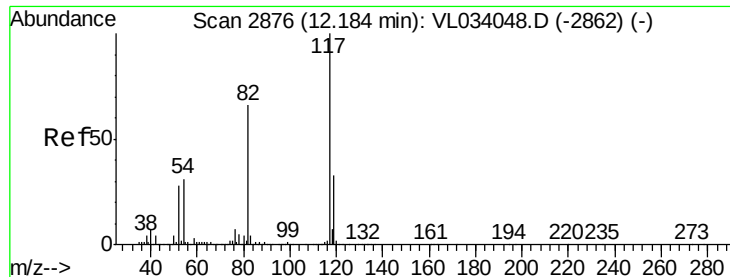
#54

1,2-Dibromoethane

Concen: 0.779 ppbv m
RT: 10.70 min Scan# 2416
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.6	76.6	115.0





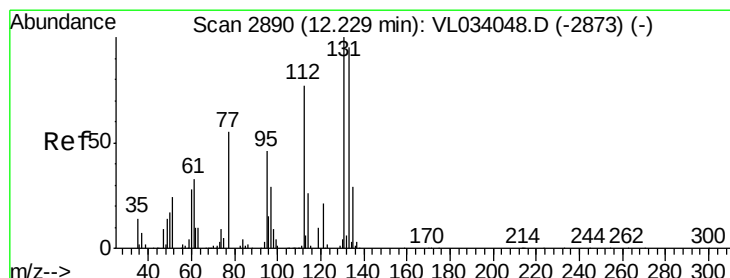
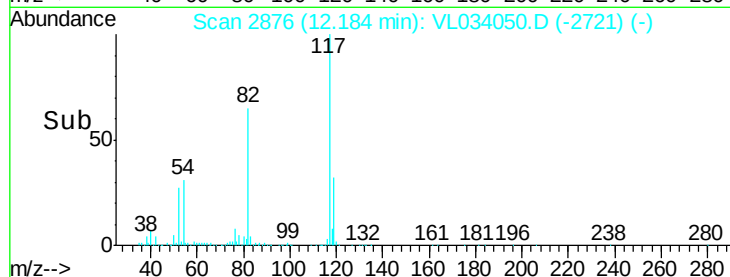
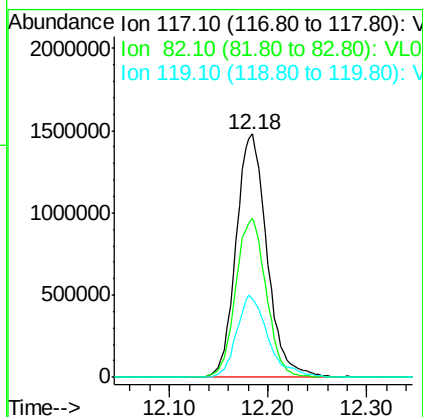
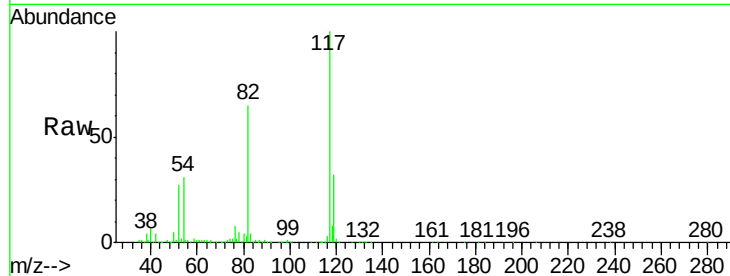
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2876
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.4	49.8	74.8
119	34.7	43.0	64.6#

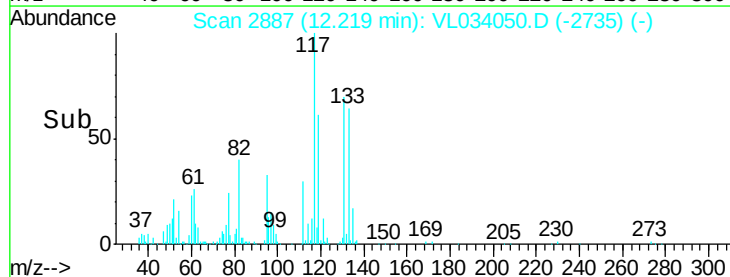
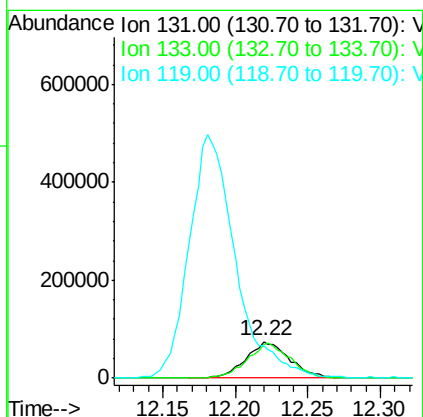
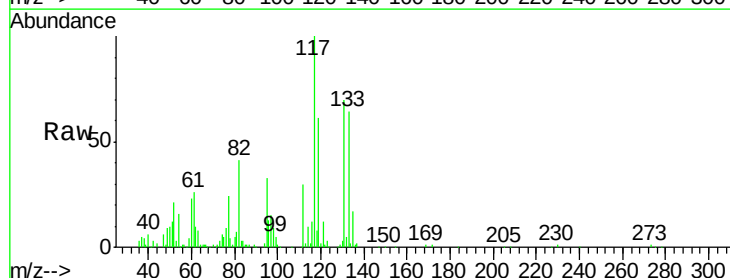
Manual Integrations
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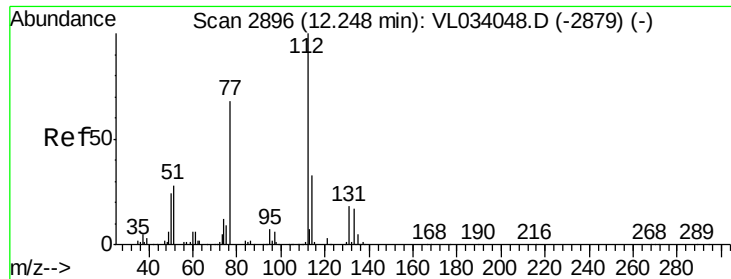
MMdadoda
8/2/2019 9:37:35 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.099 ppbv
RT: 12.22 min Scan# 2887
Delta R.T. -0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.3	76.6	114.8
119	717.0	46.6	69.8#





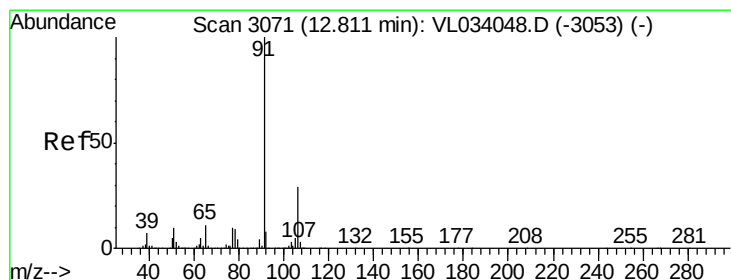
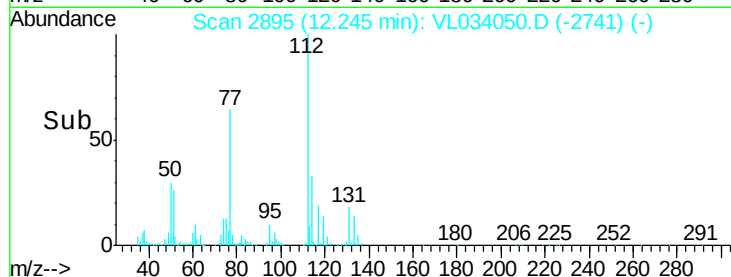
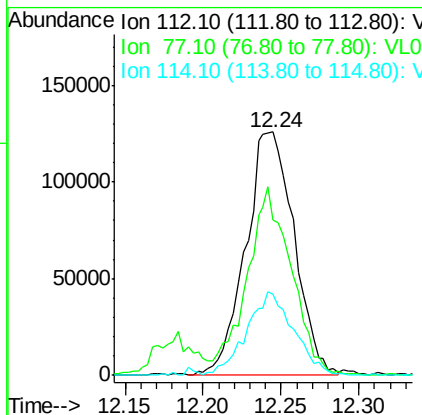
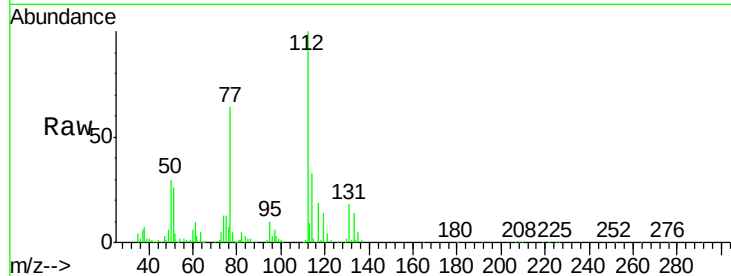
#57
Chlorobenzene
Concen: 1.084 ppbv m
RT: 12.24 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
112	100		
77	63.9	55.1	82.7
114	33.1	29.5	36.1

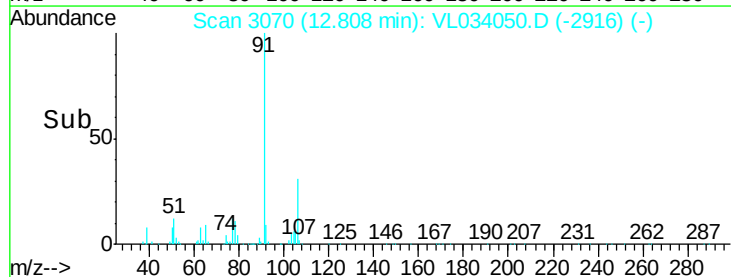
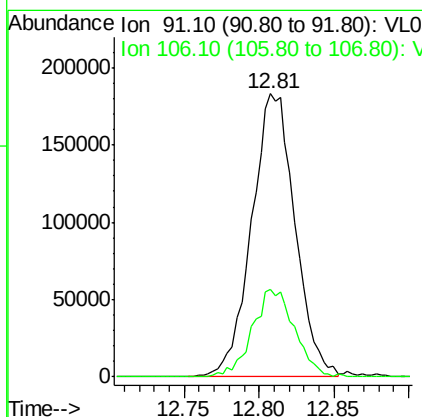
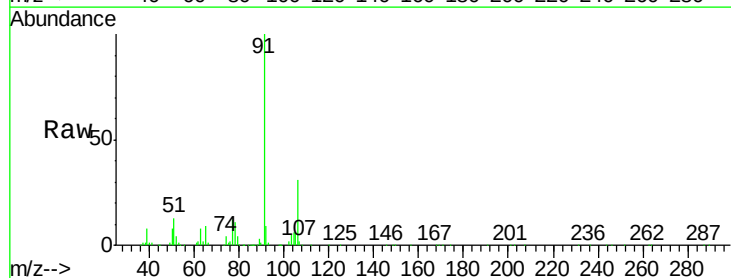
Manual Integrations
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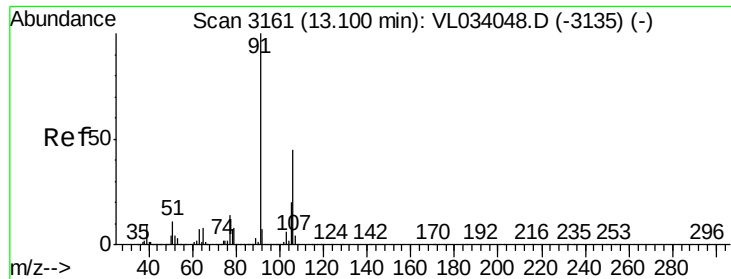
MMdadoda
8/2/2019 9:37:35 AM



#58
Ethyl Benzene
Concen: 0.973 ppbv
RT: 12.81 min Scan# 3070
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.9	23.5	35.3





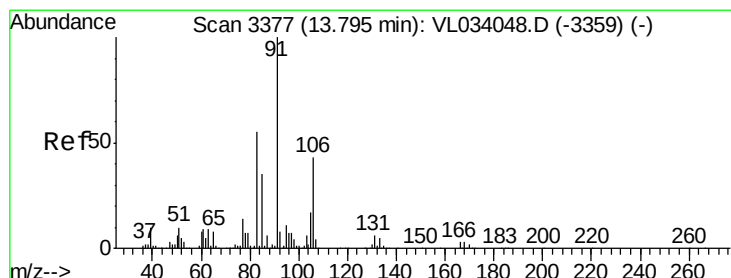
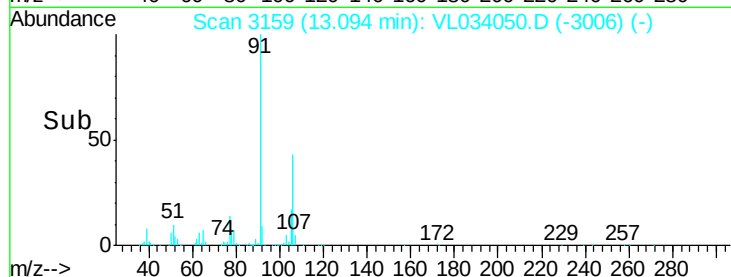
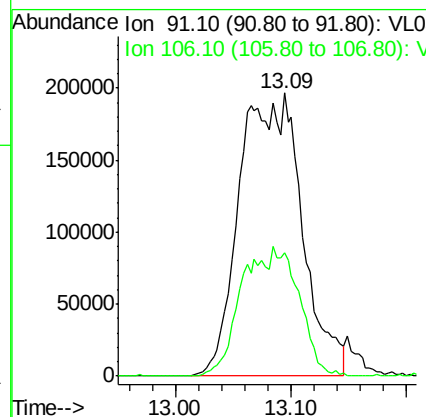
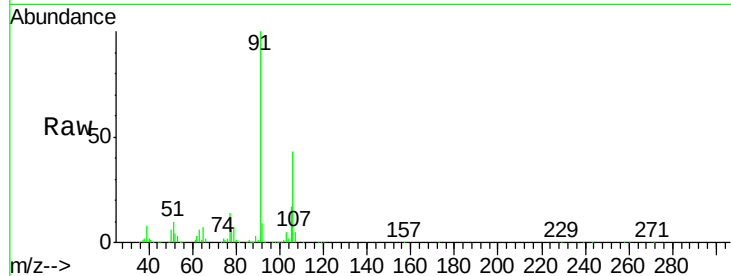
#59
m/p-Xylene
Concen: 2.144 ppbv m
RT: 13.09 min Scan# 3159
Delta R.T. -0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 738416
Ion Ratio Lower Upper
91 100
106 0.0 35.1 52.7#

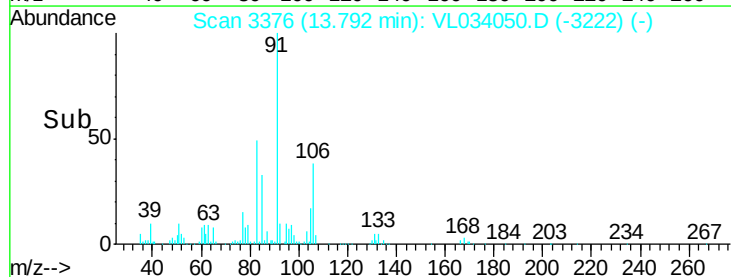
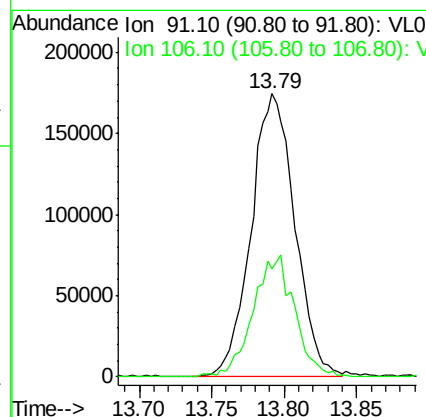
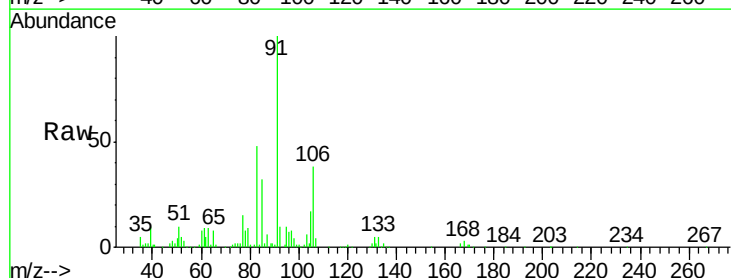
Manual Integrations
APPROVED

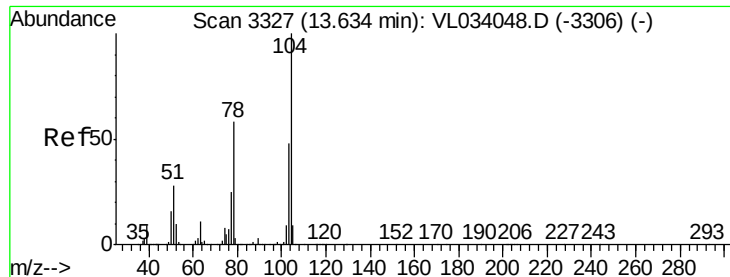
MMdadoda
8/2/2019 9:37:35 AM



#60
o-Xylene
Concen: 1.060 ppbv
RT: 13.79 min Scan# 3376
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion: 91 Resp: 366253
Ion Ratio Lower Upper
91 100
106 40.9 21.2 63.6





#61

Stvrene

Concen: 0.963 ppbv

RT: 13.63 min Scan# 3326

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

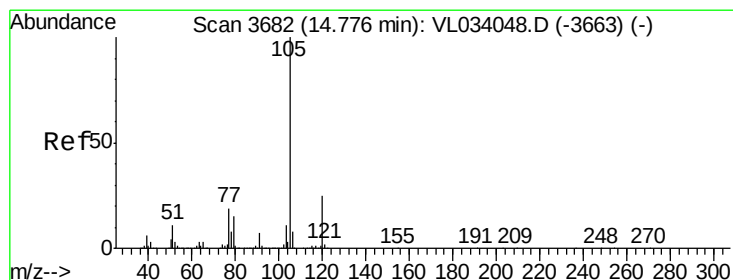
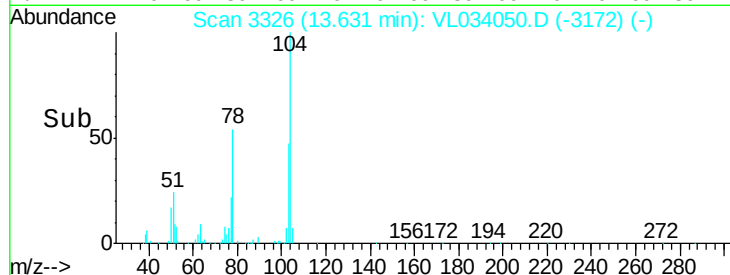
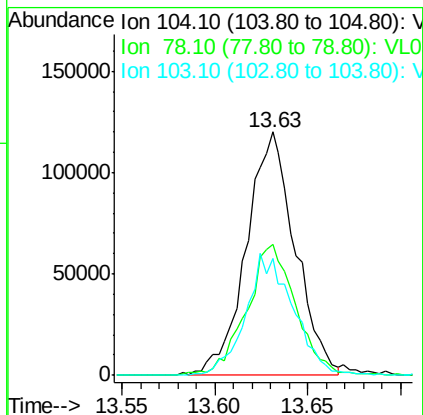
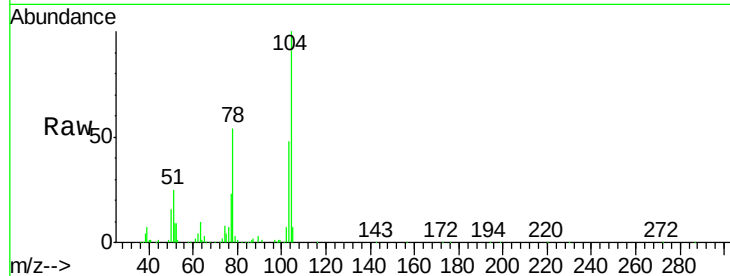
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	218785
Ion Ratio	Lower	Upper	
104	100		
78	54.8	44.3	66.5
103	49.1	38.8	58.2

Manual Integrations
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8/2/2019 9:37:35 AM



#62

Isopropylbenzene

Concen: 0.945 ppbv

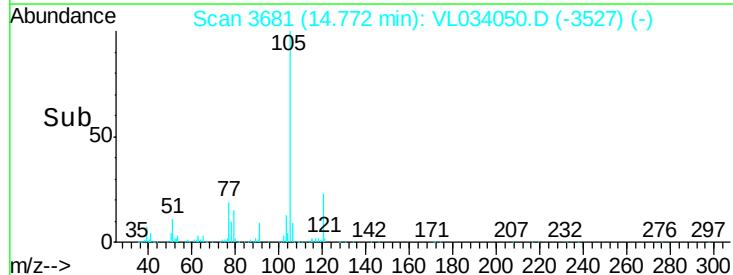
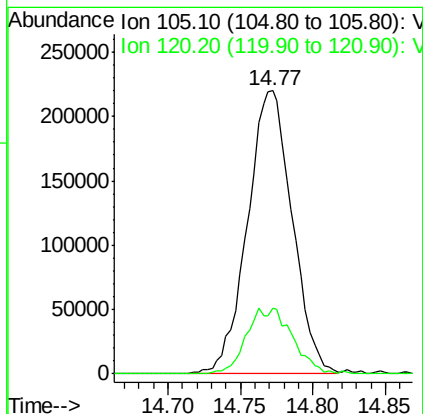
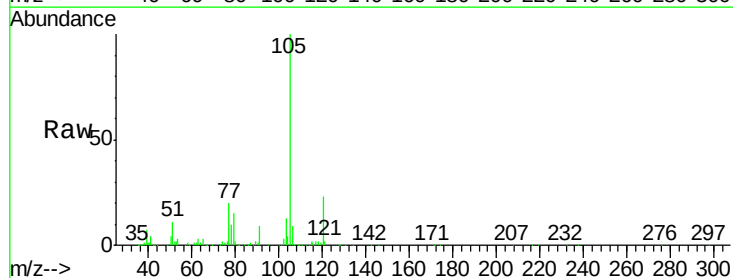
RT: 14.77 min Scan# 3681

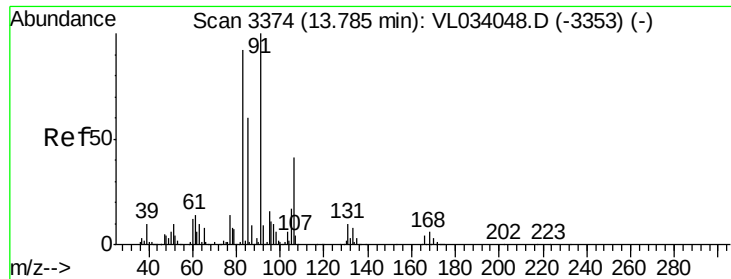
Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:	105	Resp:	471837
Ion Ratio	Lower	Upper	
105	100		
120	24.1	20.2	30.2





#63

1,1,2,2-Tetrachloroethane

Concen: 1.023 ppbv

RT: 13.78 min Scan# 3372

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 274422

Ion Ratio Lower Upper

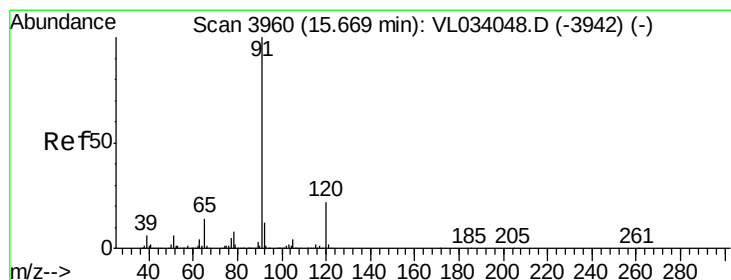
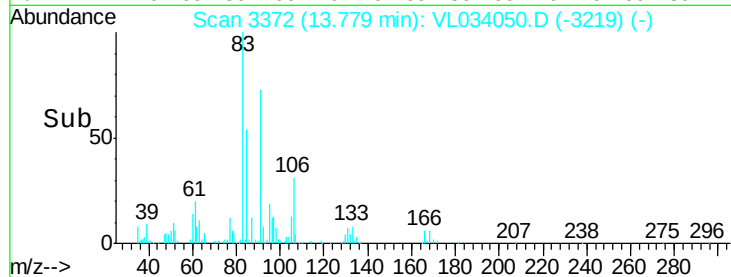
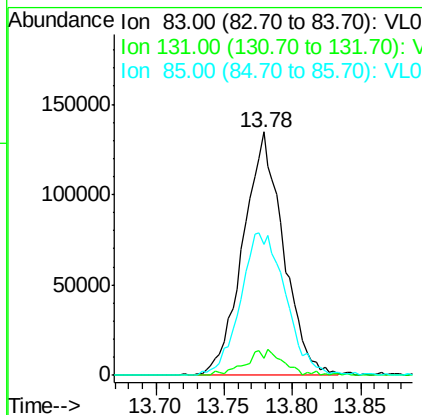
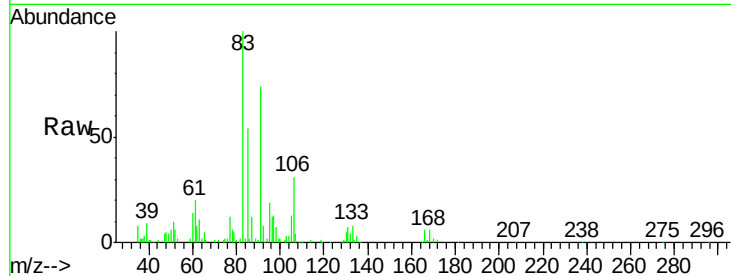
83 100

131 10.2 4.8 14.4

85 66.8 32.4 97.0

Manual Integrations
APPROVED

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8/2/2019 9:37:35 AM



#64

n-propylbenzene

Concen: 1.005 ppbv m

RT: 15.66 min Scan# 3957

Delta R.T. -0.01 min

Lab File: VL034050.D

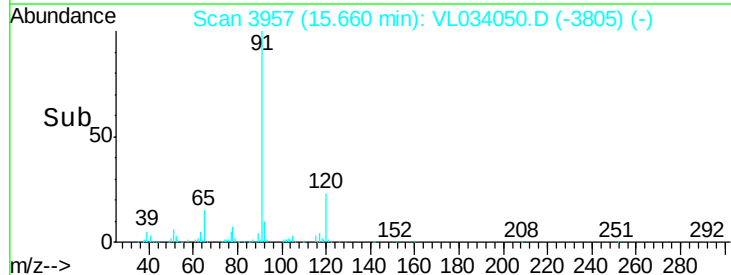
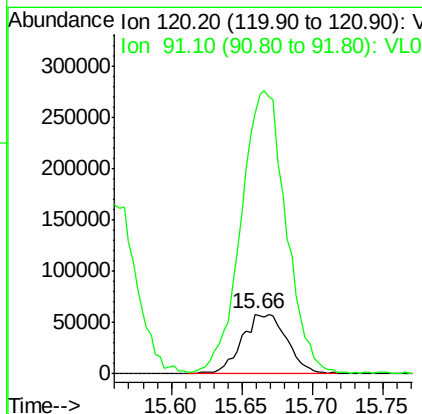
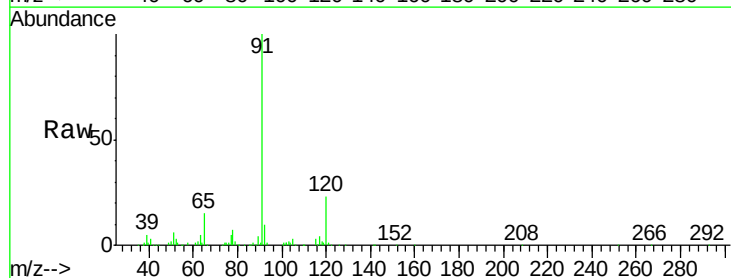
Acq: 30 Jul 2019 3:26

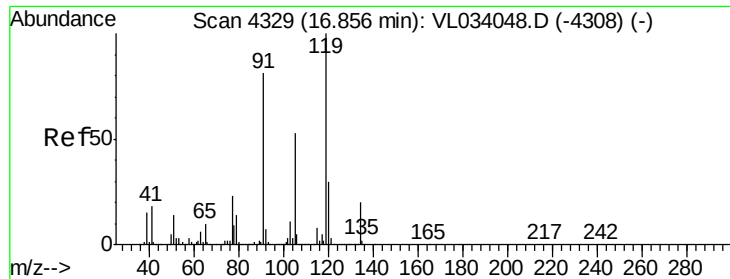
Tgt Ion: 120 Resp: 129669

Ion Ratio Lower Upper

120 100

91 472.6 386.2 579.2





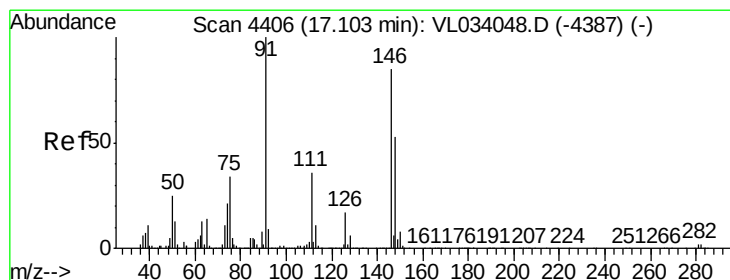
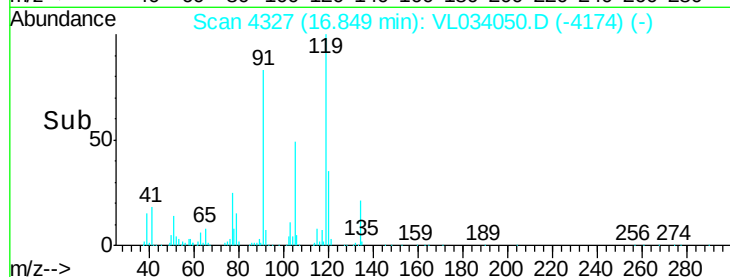
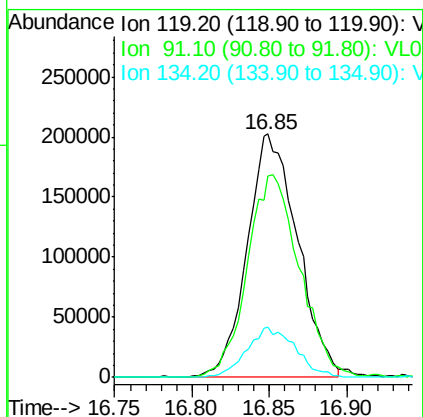
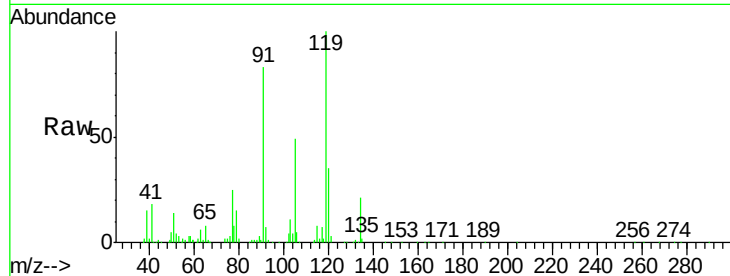
#65
 tert-Butylbenzene
 Concen: 1.084 ppbv
 RT: 16.85 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
91	87.7	66.9	100.3
134	20.1	15.5	23.3

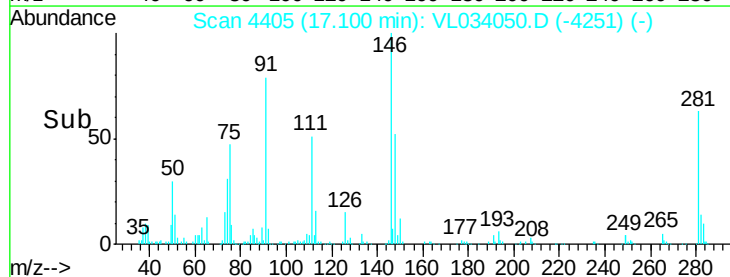
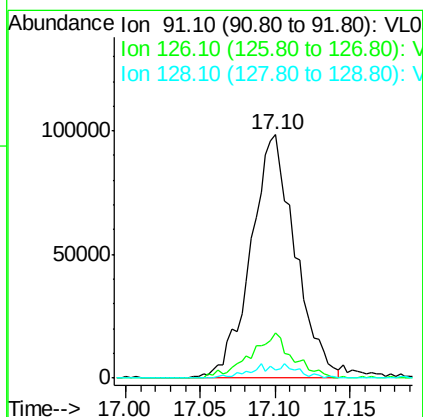
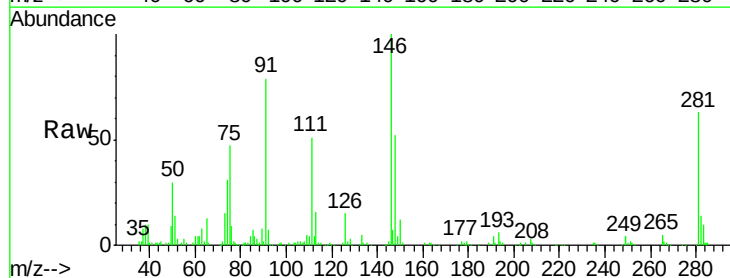
Manual Integrations
 APPROVED

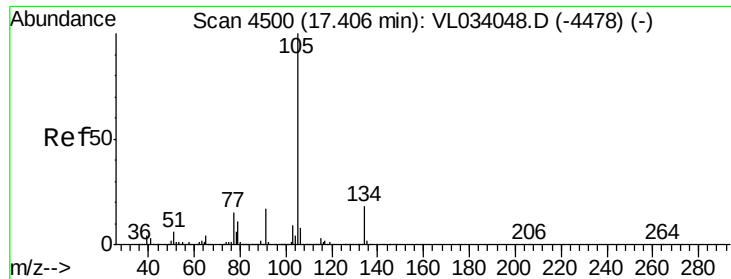
MMDadoda
 8/2/2019 9:37:35 AM



#66
 Benzyl Chloride
 Concen: 0.953 ppbv
 RT: 17.10 min Scan# 4405
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.8	13.5	20.3
128	5.7	4.5	6.7





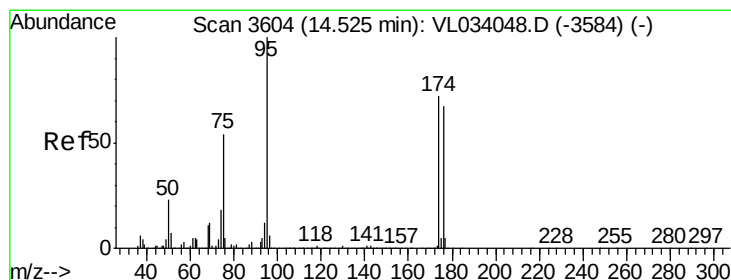
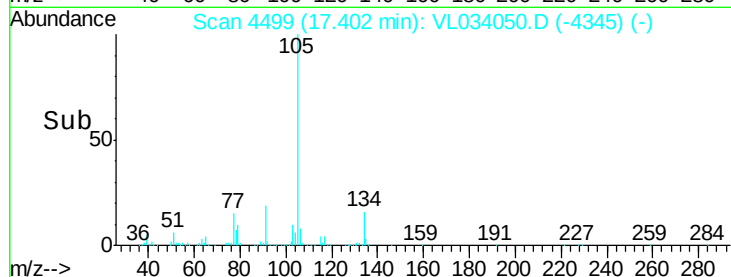
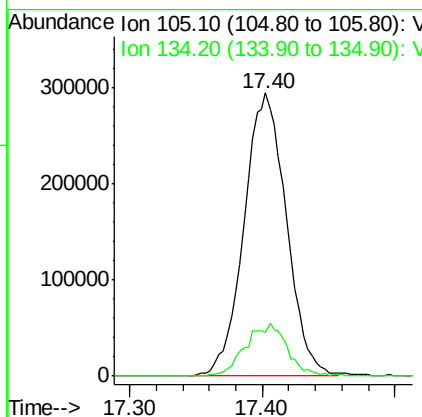
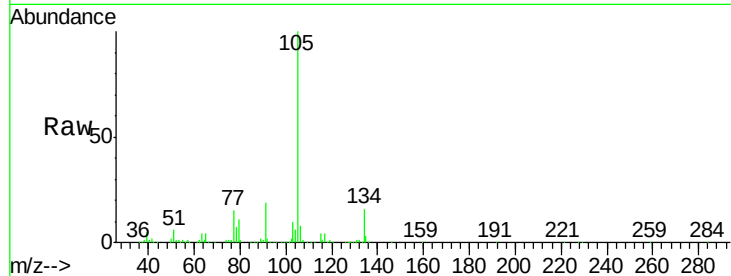
#67
 sec-Butylbenzene
 Concen: 1.102 ppbv
 RT: 17.40 min Scan# 4499
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.4	14.3	21.5

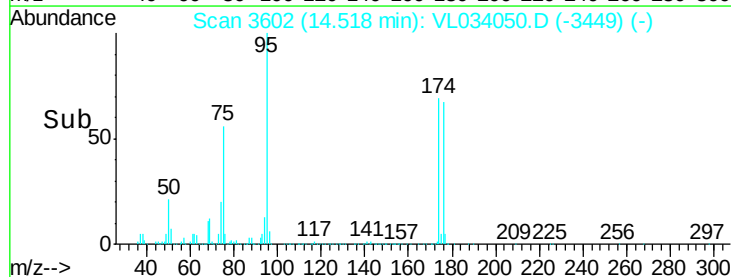
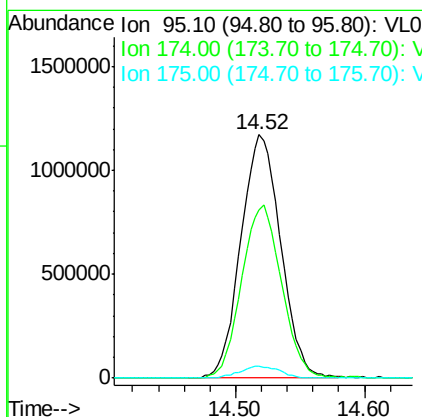
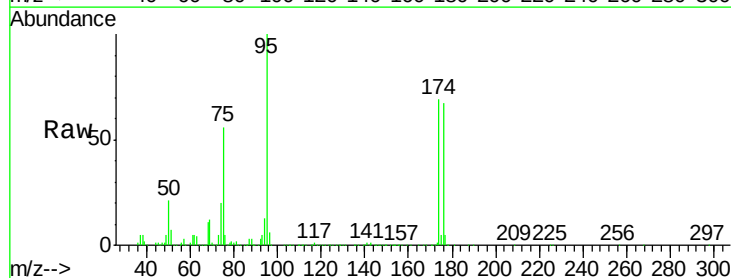
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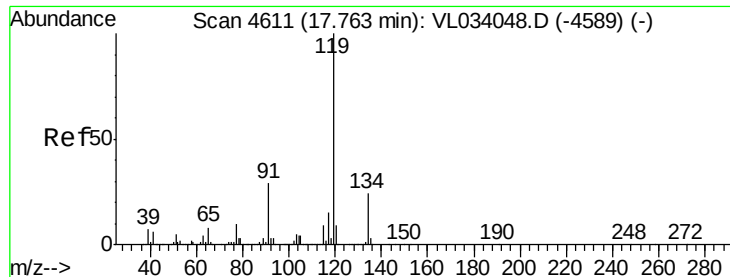
MMdadoda
 8/2/2019 9:37:35 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.568 ppbv
 RT: 14.52 min Scan# 3602
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.8	57.6	86.4
175	5.1	4.1	6.1





#69

p-Isopropyltoluene

Concen: 1.076 ppbv

RT: 17.76 min Scan# 4611

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

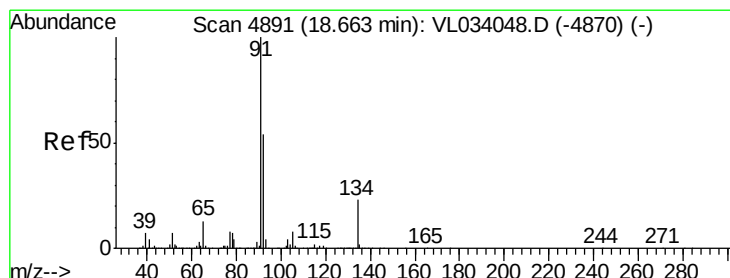
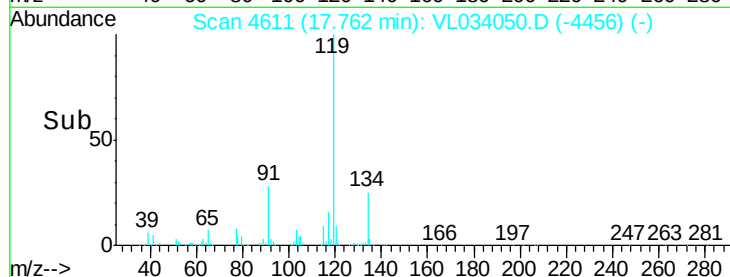
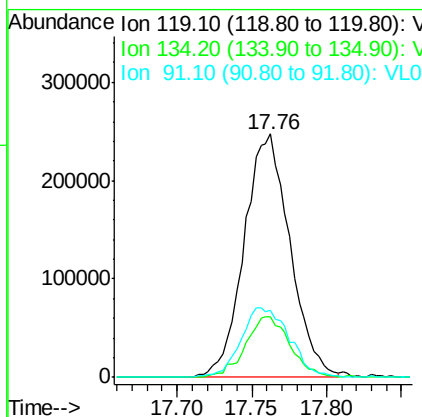
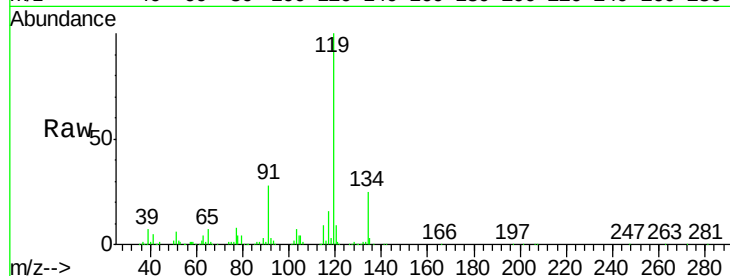
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	525447
Ion Ratio		Lower	Upper
119	100		
134	24.5	20.1	30.1
91	31.0	23.6	35.4

Manual Integrations
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#70

n-Butylbenzene

Concen: 1.086 ppbv m

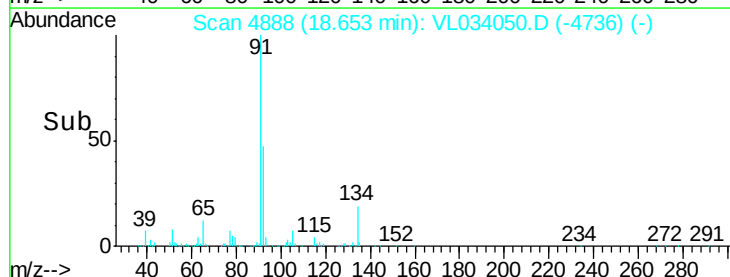
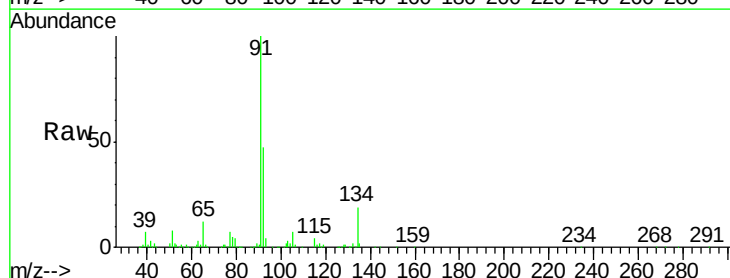
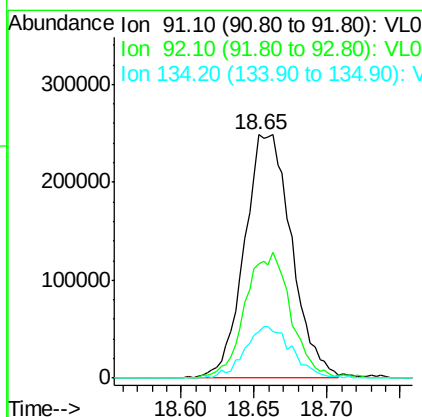
RT: 18.65 min Scan# 4888

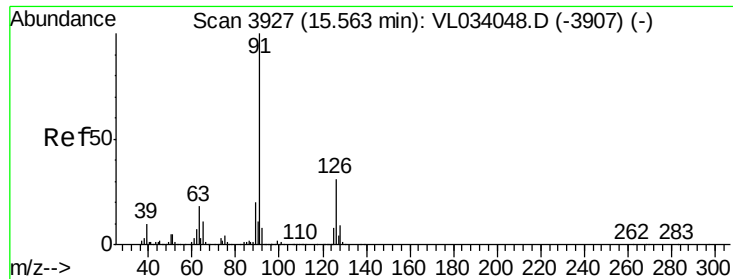
Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:	91	Resp:	558329
Ion Ratio		Lower	Upper
91	100		
92	50.2	42.6	64.0
134	21.3	17.7	26.5





#71

2-Chlorotoluene

Concen: 0.942 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 342521

Ion Ratio Lower Upper

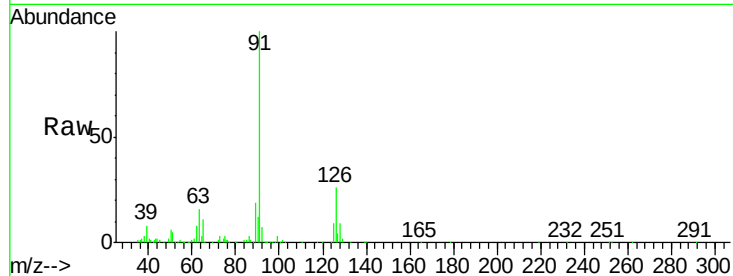
91 100

126 29.1 12.0 48.2

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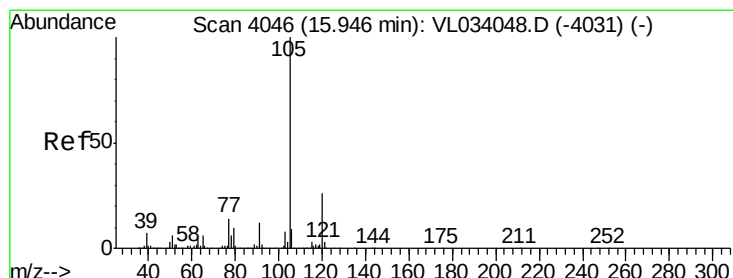
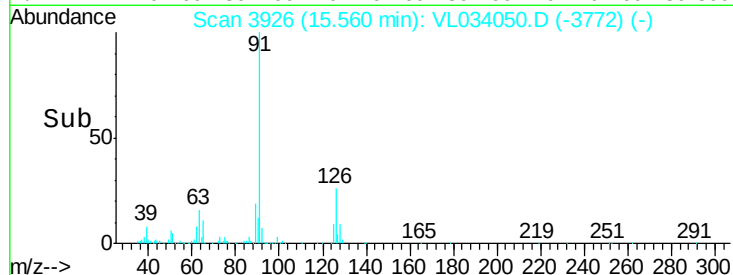
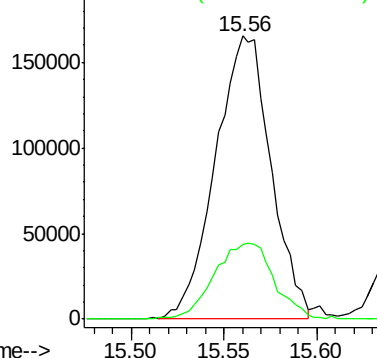
MMdadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.959 ppbv

RT: 15.95 min Scan# 4046

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion: 105 Resp: 401563

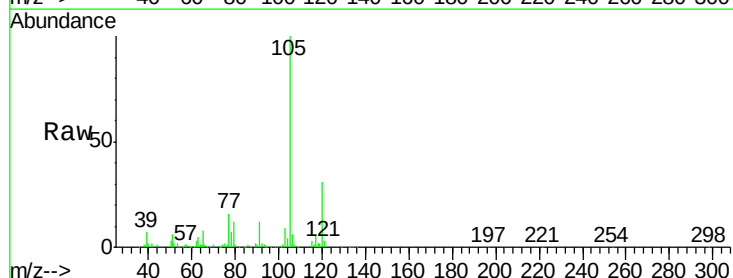
Ion Ratio Lower Upper

105 100

120 27.8 23.0 34.4

91 15.6 10.6 16.0

77 14.0 11.5 17.3

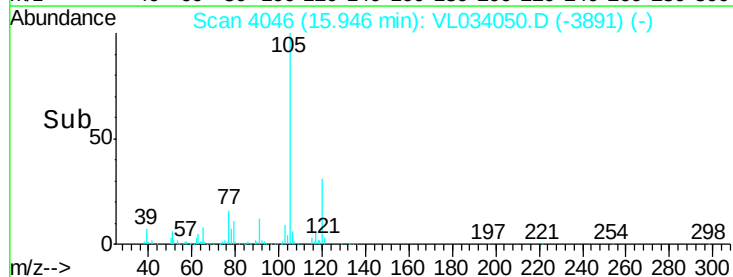
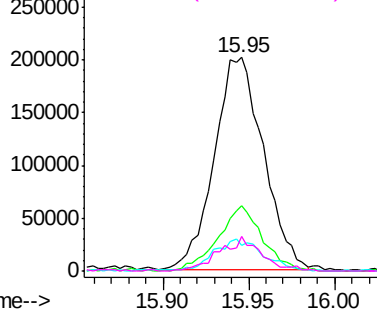


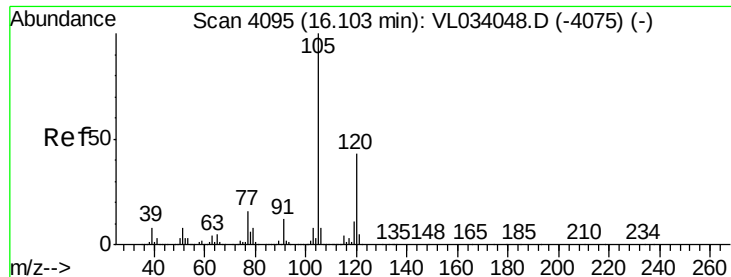
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 1.078 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 416072

Ion Ratio Lower Upper

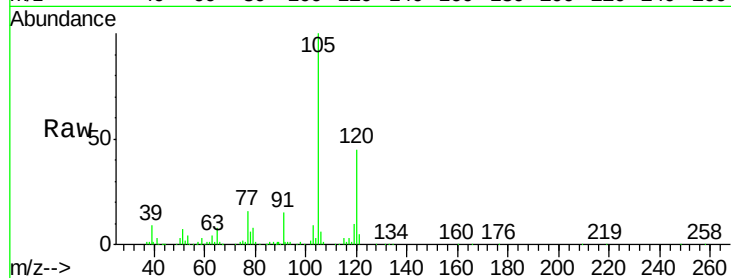
105 100

120 44.7 34.7 52.1

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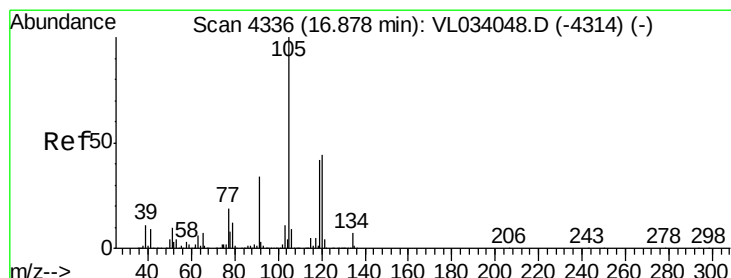
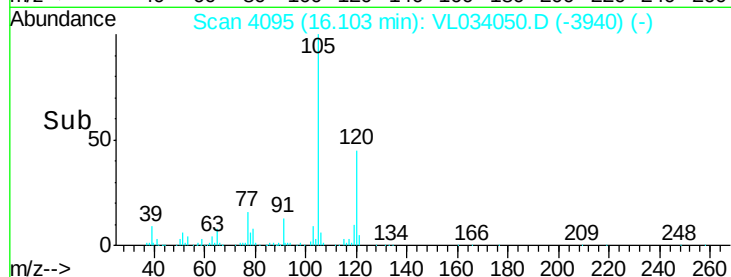
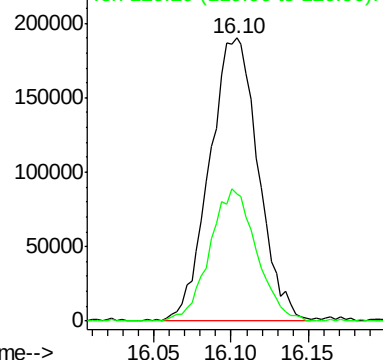
MMdadoda

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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: 1.118 ppbv

RT: 16.87 min Scan# 4332

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:105 Resp: 477907

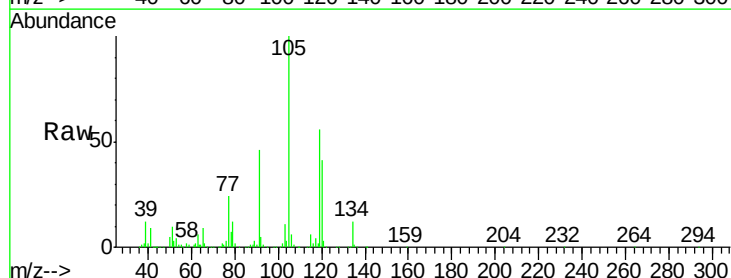
Ion Ratio Lower Upper

105 100

120 41.0 35.6 53.4

91 45.7 28.0 42.0#

77 23.2 15.2 22.8#

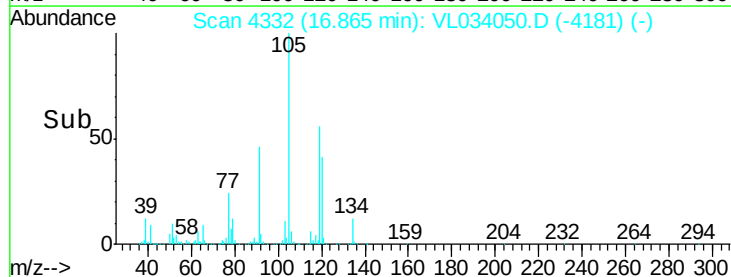
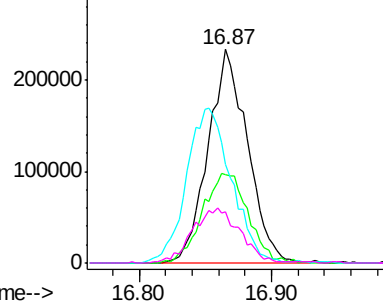


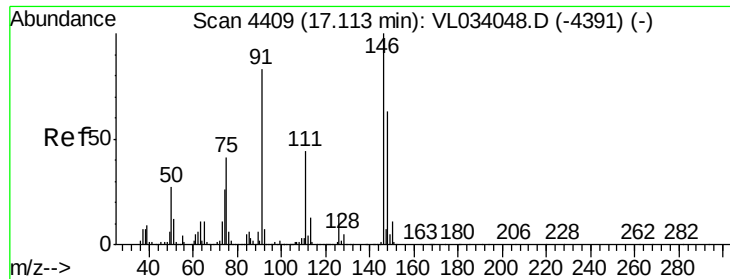
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





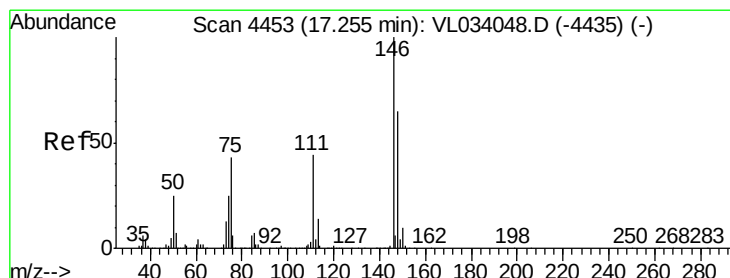
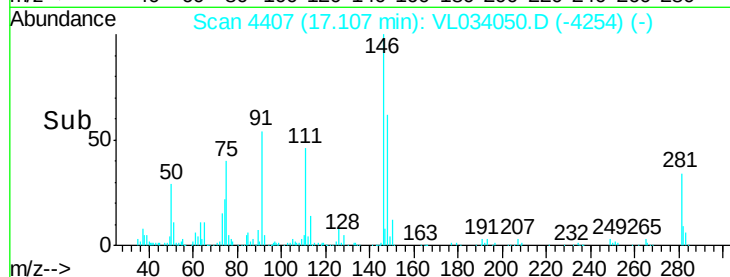
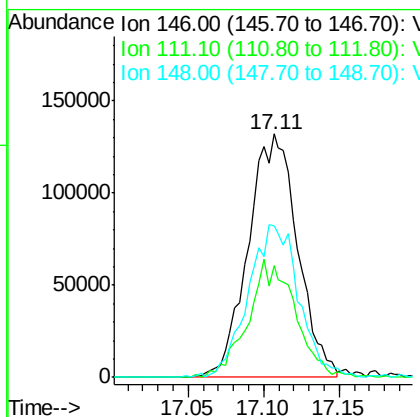
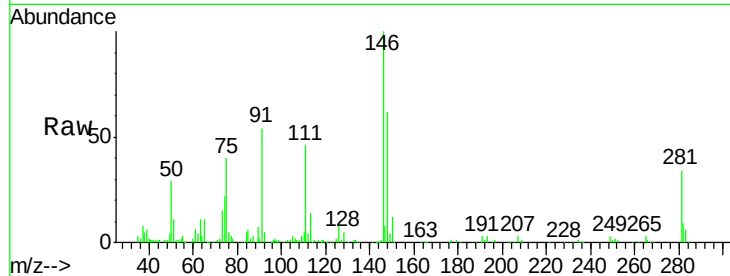
#75
 1,3-Dichlorobenzene
 Concen: 1.099 ppbv m
 RT: 17.11 min Scan# 4407
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp Lower	Upper
146	100		
111	0.0	22.1	66.5#
148	65.0	32.0	96.2

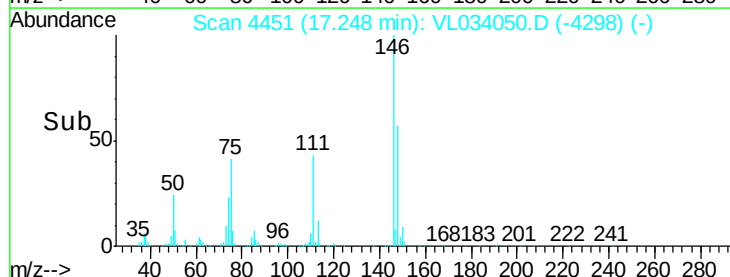
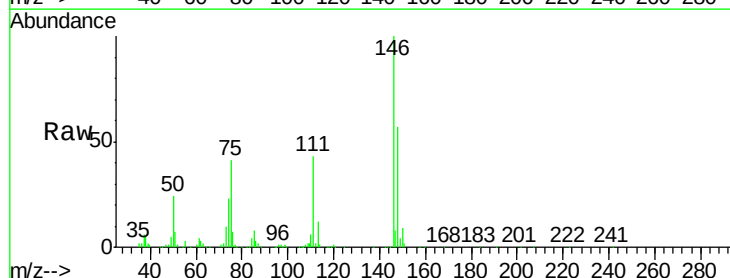
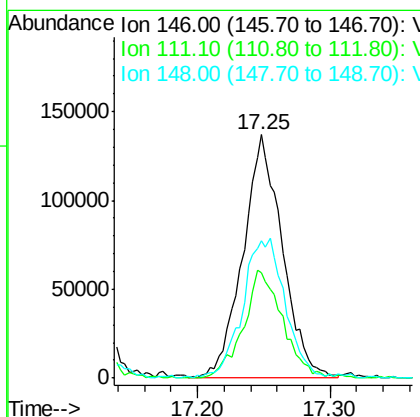
Manual Integrations
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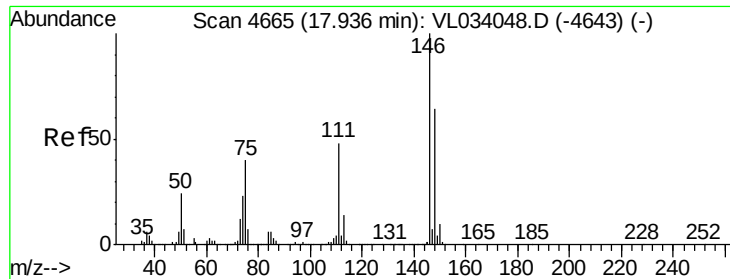
MMdadoda
 8/2/2019 9:37:35 AM



#76
 1,4-Dichlorobenzene
 Concen: 1.090 ppbv
 RT: 17.25 min Scan# 4451
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Resp Lower	Upper
146	100		
111	45.0	21.8	65.4
148	63.7	32.3	96.9





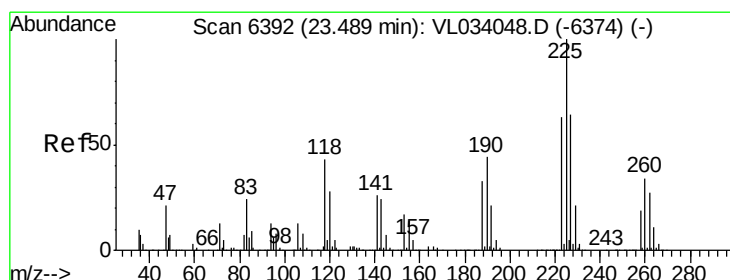
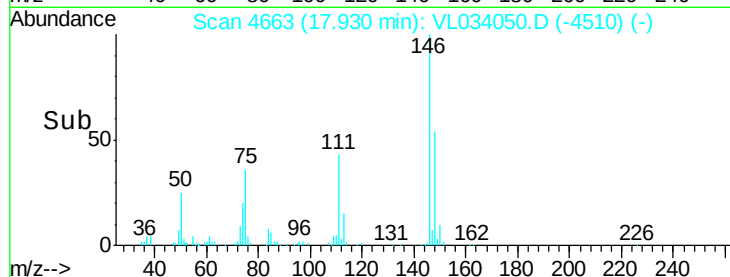
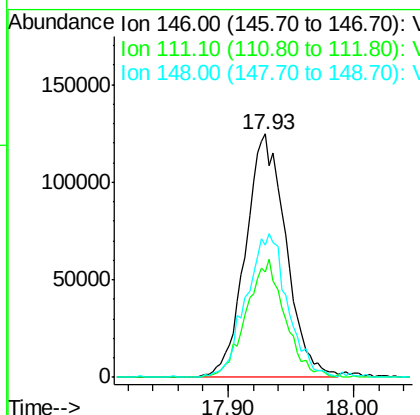
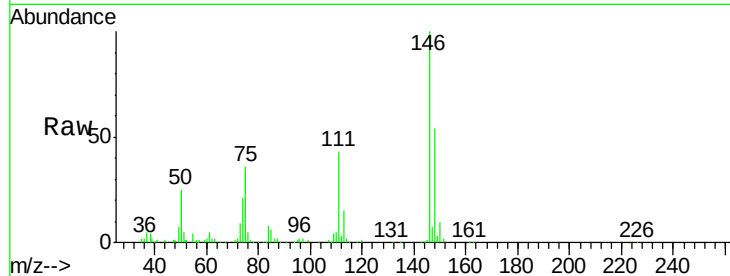
#77
 1,2-Dichlorobenzene
 Concen: 1.112 ppbv
 RT: 17.93 min Scan# 4663
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	23.4	70.2
148	60.9	32.3	96.9

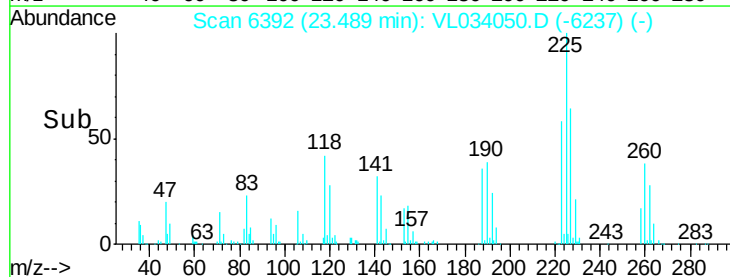
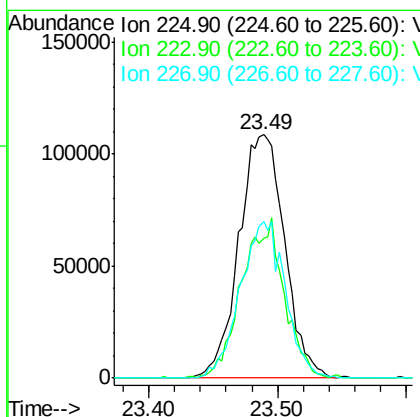
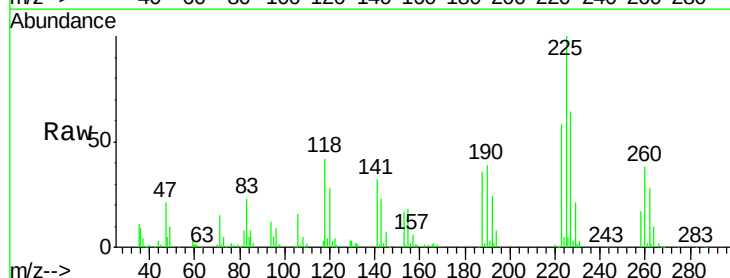
Manual Integrations
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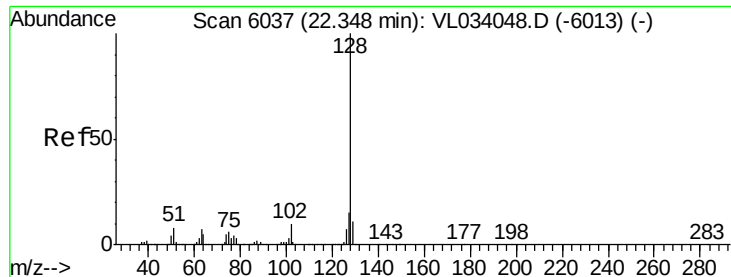
MMdadoda
 8/2/2019 9:37:35 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.219 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.3	49.6	74.4
227	62.9	51.4	77.2





#79

Naphthalene

Concen: 1.106 ppbv m

RT: 22.35 min Scan# 6037

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

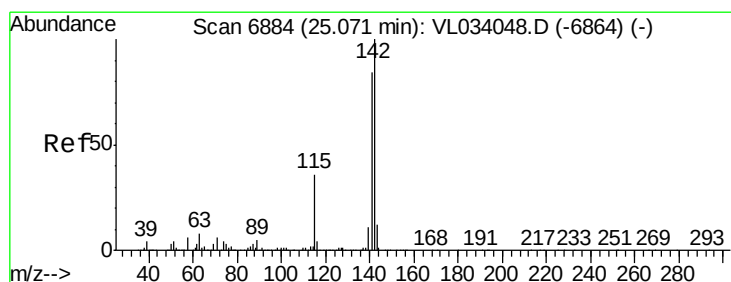
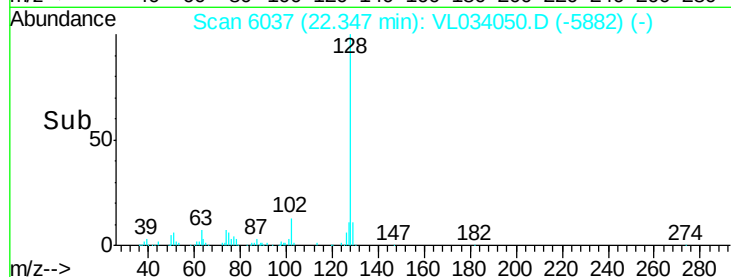
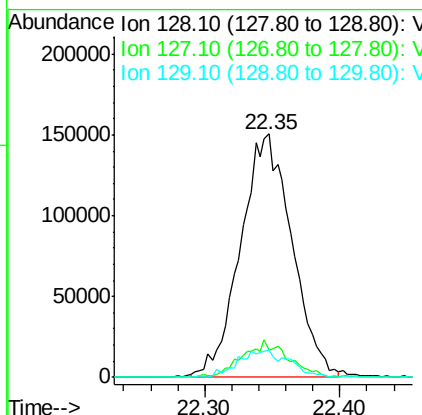
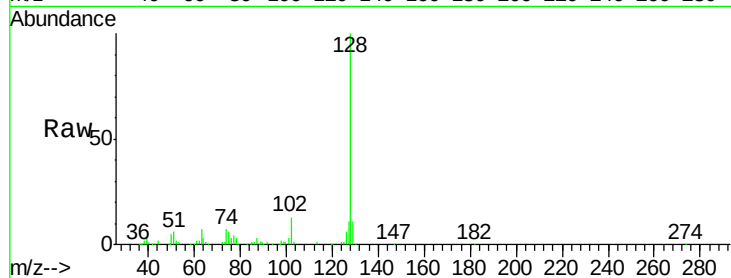
ClientSampleId :

VSTDIC001

Tot Ion:	128	Resp:	398028
Ion Ratio	Lower	Upper	
128	100		
127	11.0	11.8	17.6#
129	11.4	9.1	13.7

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 1.036 ppbv

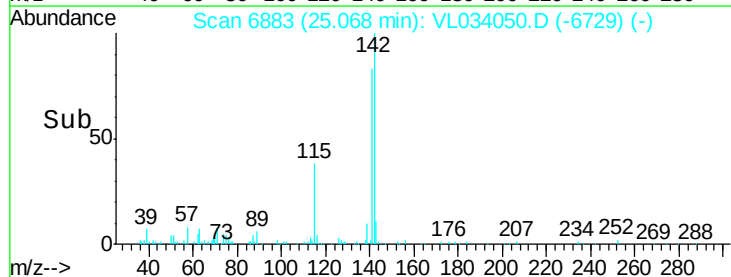
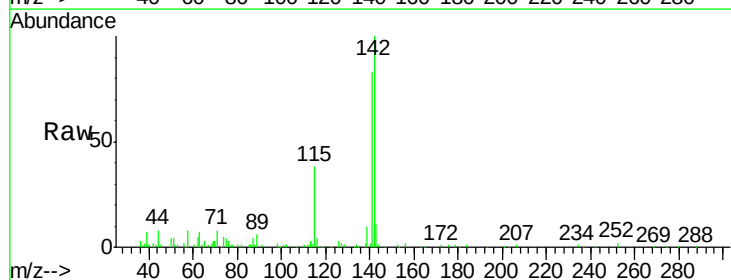
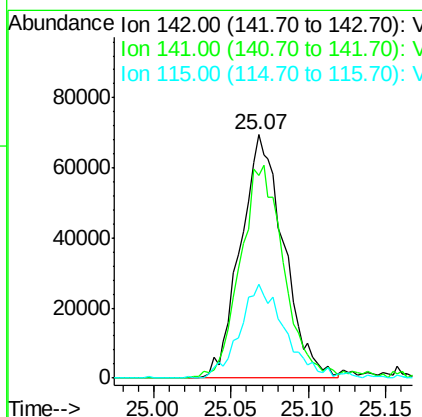
RT: 25.07 min Scan# 6883

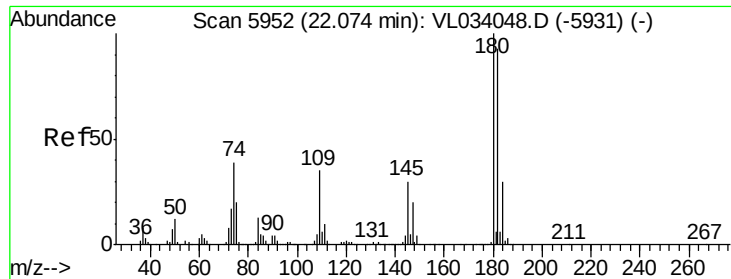
Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:	142	Resp:	135067
Ion Ratio	Lower	Upper	
142	100		
141	87.6	67.6	101.4
115	40.8	29.8	44.6





#81
 1,2,4-Trichlorobenzene
 Concen: 1.139 ppbv m
 RT: 22.06 min Scan# 5949
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	264985		
182	92.4		76.5	114.7
184	0.0		24.5	36.7#

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:35 AM

