

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033064.D
 Acq On : 4 Jan 2019 11:20
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:07 AM

Quant Time: Jan 04 12:01:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1385900	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3430157	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2775062	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2238700	10.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	151671	0.491 ppbv	95
3) Chlorodifluoromethane	3.02	51	82442	0.489 ppbv	99
4) Chloromethane	3.17	50	53388	0.545 ppbv	90
5) Vinyl Chloride	3.29	62	42386	0.407 ppbv	97
6) Bromomethane	3.52	94	36935	0.583 ppbv	100
7) Chloroethane	3.61	64	21704	0.607 ppbv	91
8) Dichlorotetrafluoroethane	3.22	85	120716	0.490 ppbv	97
9) Propene	3.04	41	27339	0.418 ppbv	99
10) Heptane	8.25	43	79012	0.472 ppbv	98
11) Trichlorofluoromethane	4.00	101	163884	0.603 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	112888	0.614 ppbv	96
13) Ethanol	3.66	45	18063	0.708 ppbv	94
14) Bromoethene	3.79	108	46904	0.599 ppbv	99
15) Acetone	3.92	43	109097	0.602 ppbv	96
16) 1,3-Butadiene	3.37	39	38197	0.484 ppbv	93
17) tert-Butyl alcohol	4.38	59	24359m	0.602 ppbv	
18) 1,1-Dichloroethene	4.36	96	51823	0.629 ppbv	86
19) Isopropyl Alcohol	4.04	45	76529	0.632 ppbv #	94
20) Methylene Chloride	4.41	84	54277	0.677 ppbv	93
21) Allyl Chloride	4.48	41	66209	0.537 ppbv	88
22) trans-1,2-Dichloroethene	4.97	96	45500	0.566 ppbv	89
23) Vinyl Acetate	5.16	43	115533	0.461 ppbv #	94
24) 1,1-Dichloroethane	5.09	63	116462	0.560 ppbv	99
25) Ethyl Acetate	5.78	43	177805	0.548 ppbv	99
26) Hexane	5.78	57	80973	0.526 ppbv	92
27) Carbon Disulfide	4.62	76	102853	0.535 ppbv #	78
28) Methyl tert-Butyl Ether	5.13	73	120937	0.502 ppbv	100
29) Chloroform	5.84	83	144871	0.568 ppbv	93
30) Cyclohexane	7.25	84	50148	0.434 ppbv #	29
31) cis-1,2-Dichloroethene	5.64	61	67824	0.476 ppbv	93
32) 1,1,1-Trichloroethane	6.62	97	145336	0.540 ppbv	99
34) 2-Butanone	5.34	43	100975	0.504 ppbv	99
35) Carbon Tetrachloride	7.13	117	154496	0.522 ppbv	93
36) Benzene	7.00	78	135490	0.480 ppbv	100
37) 1,2-Dichloroethane	6.42	62	106479	0.555 ppbv	99
38) Trichloroethene	7.96	130	57705	0.490 ppbv	89
39) 1,2-Dichloropropane	7.73	63	53437	0.505 ppbv	93
40) 1,4-Dioxane	7.99	88	20517m	0.511 ppbv	
41) Tetrahydrofuran	6.17	42	45357m	0.444 ppbv	
42) Bromodichloromethane	7.91	83	142519	0.516 ppbv	95
43) Methyl Methacrylate	8.15	69	43802m	0.416 ppbv	

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Manual Integrations
 APPROVED

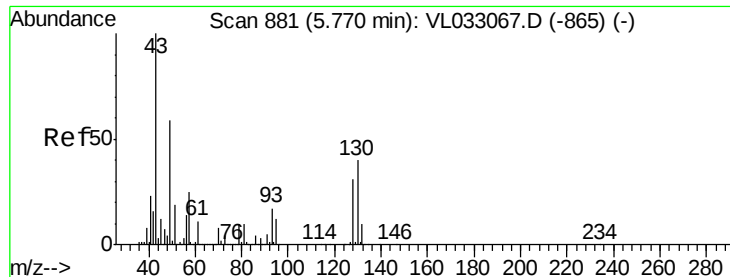
MMDadoda
 1/8/2019 12:01:07 AM

Quant Time: Jan 04 12:01:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.99	57	222160	0.445	ppbv	# 90
45) t-1,3-Dichloropropene	9.42	75	46234	0.318	ppbv	90
46) cis-1,3-Dichloropropene	8.83	75	60182m	0.381	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	65584m	0.513	ppbv	
48) Dibromochloromethane	10.45	129	92013	0.434	ppbv	98
49) Bromoform	13.20	173	87121m	0.446	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	117291	0.436	ppbv	96
51) 2-Hexanone	10.30	43	59383m	0.326	ppbv	
52) Tetrachloroethene	11.38	164	47692m	0.467	ppbv	
53) Toluene	9.95	91	116689	0.402	ppbv	99
54) 1,2-Dibromoethane	10.76	107	70833	0.381	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	80439	0.573	ppbv	# 1
57) Chlorobenzene	12.30	112	125655	0.558	ppbv	# 96
58) Ethyl Benzene	12.87	91	142842m	0.418	ppbv	
59) m/p-Xylene	13.15	91	306540m	0.967	ppbv	
60) o-Xylene	13.85	91	152684	0.493	ppbv	95
61) Styrene	13.69	104	70077	0.351	ppbv	96
62) Isopropylbenzene	14.83	105	220782	0.499	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	138772	0.572	ppbv	100
64) n-propylbenzene	15.73	120	55663m	0.510	ppbv	
65) tert-Butylbenzene	16.91	119	191725	0.487	ppbv	91
66) Benzyl Chloride	17.16	91	107953m	0.487	ppbv	
67) sec-Butylbenzene	17.46	105	283432	0.510	ppbv	98
69) p-Isopropyltoluene	17.82	119	217897	0.485	ppbv	96
70) n-Butylbenzene	18.72	91	204838	0.447	ppbv	97
71) 2-Chlorotoluene	15.62	91	139808	0.446	ppbv	100
72) 4-Ethyltoluene	16.00	105	149446	0.433	ppbv	# 96
73) 1,3,5-Trimethylbenzene	16.16	105	158530	0.470	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	198968	0.537	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	127435	0.588	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	101227	0.513	ppbv	95
77) 1,2-Dichlorobenzene	17.99	146	103342	0.521	ppbv	98
78) Hexachloro-1,3-Butadiene	23.55	225	85921	0.616	ppbv	99
79) Naphthalene	22.42	128	120683m	0.359	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	17228	0.185	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	64356m	0.420	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1385900

Ion Ratio Lower Upper

49 100

128 52.7 26.2 78.5

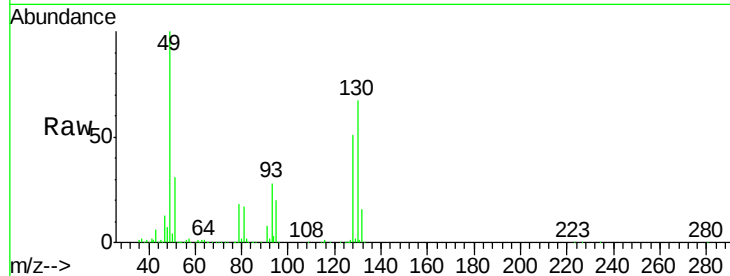
130 68.3 33.6 100.6

Manual Integrations

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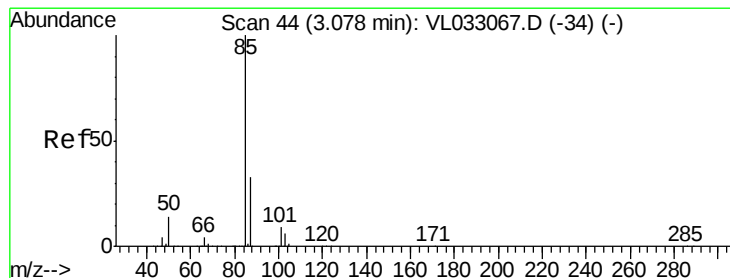
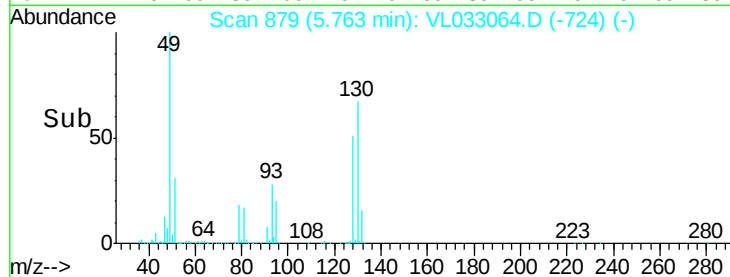
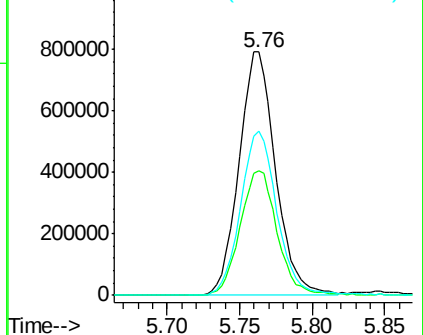
1/8/2019 12:01:07 AM



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: 0.491 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033064.D

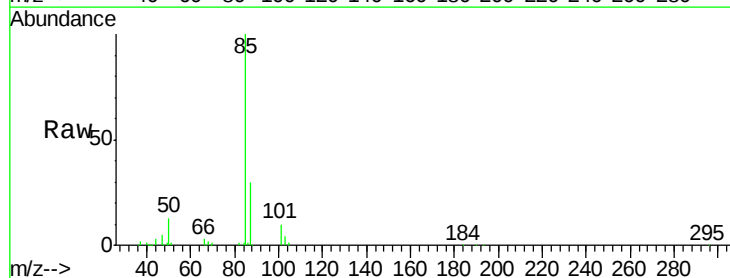
Acq: 4 Jan 2019 11:20

Tgt Ion: 85 Resp: 151671

Ion Ratio Lower Upper

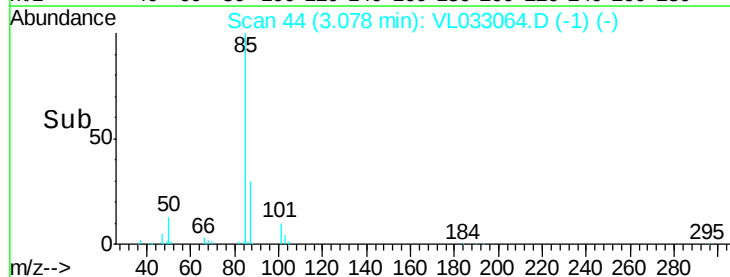
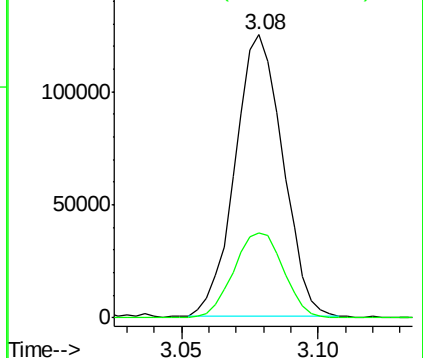
85 100

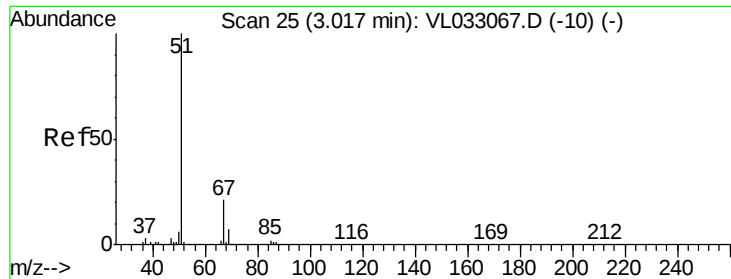
87 30.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.489 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Tot Ion: 51 Resp: 82442

Ion Ratio Lower Upper

51 100

67 20.9 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

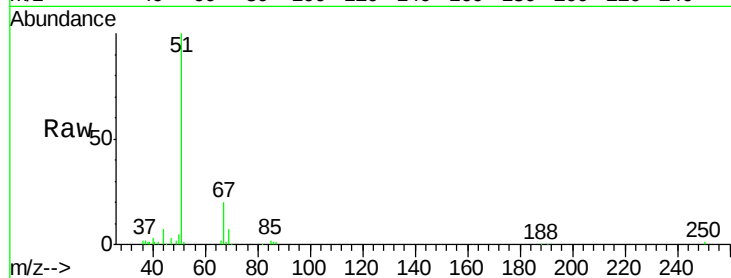
VSTDIC0.5

Manual Integrations

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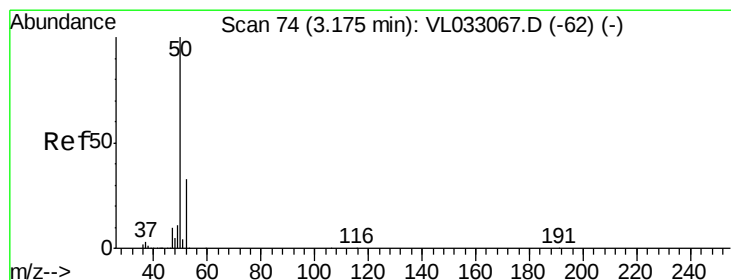
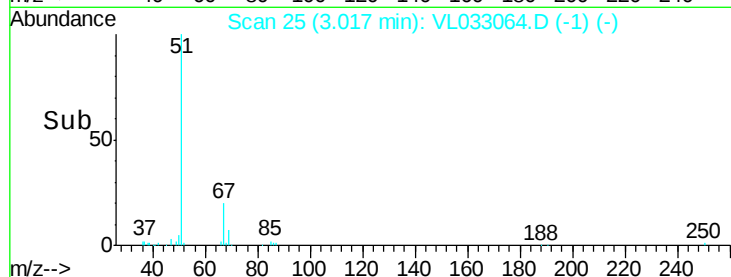
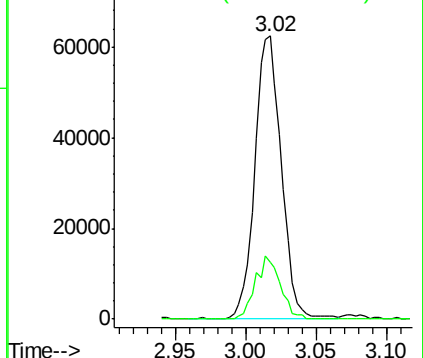
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.545 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033064.D

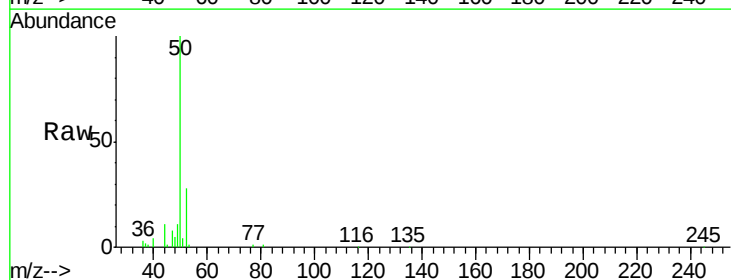
Acq: 4 Jan 2019 11:20

Tgt Ion: 50 Resp: 53388

Ion Ratio Lower Upper

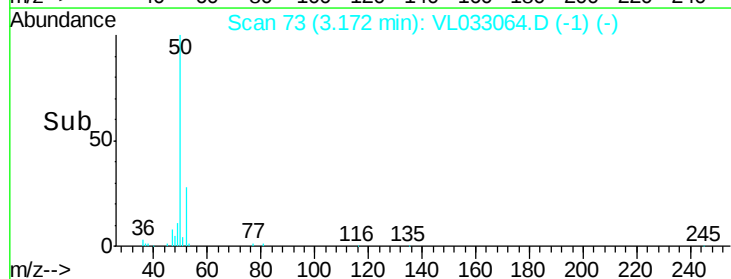
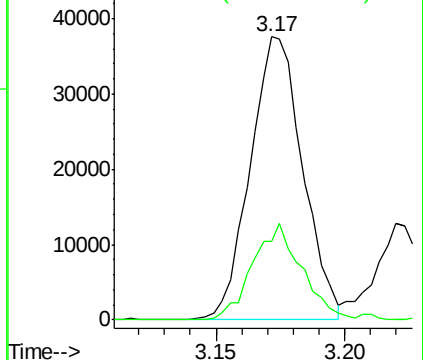
50 100

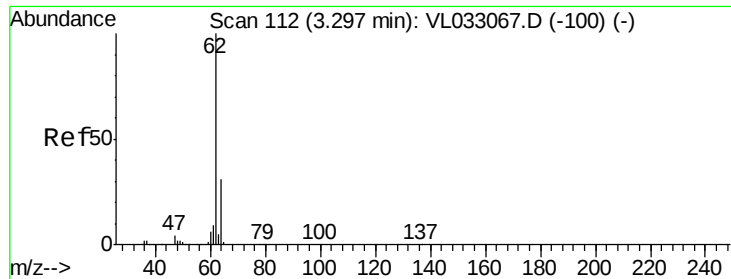
52 27.9 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.407 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 42386

Ion Ratio Lower Upper

62 100

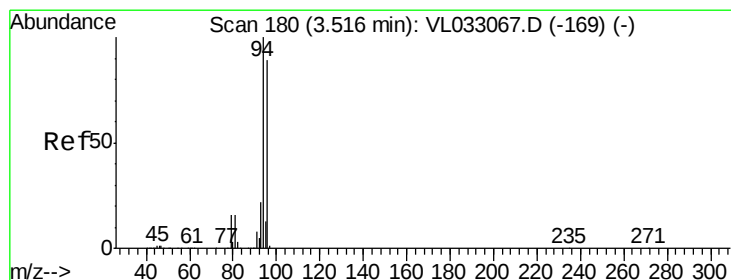
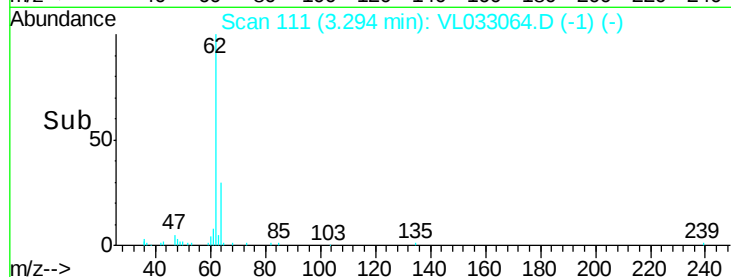
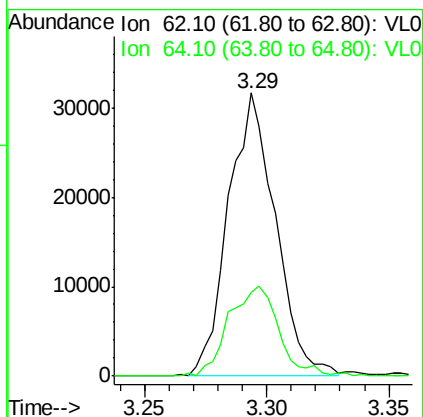
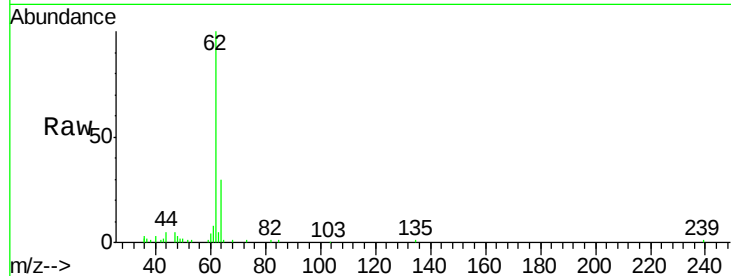
64 29.8 25.3 37.9

Manual Integrations

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#6

Bromomethane

Concen: 0.583 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033064.D

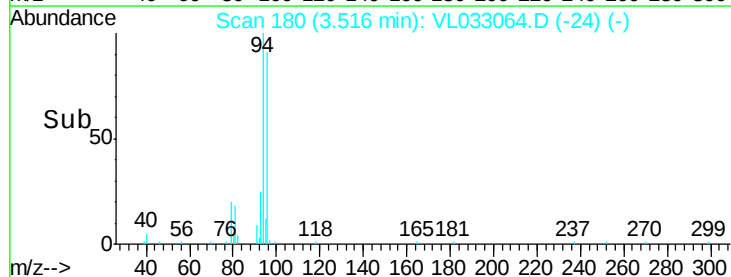
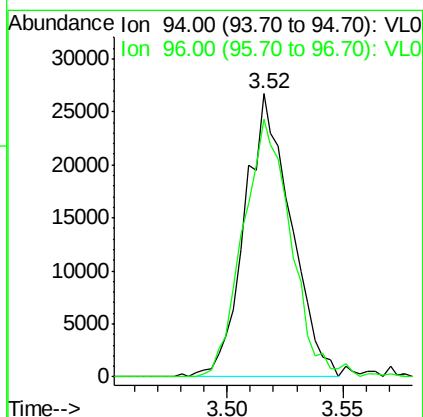
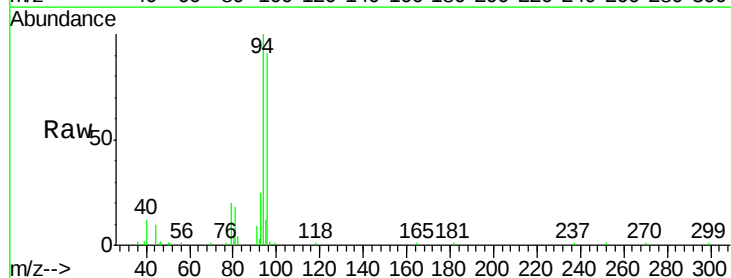
Acq: 4 Jan 2019 11:20

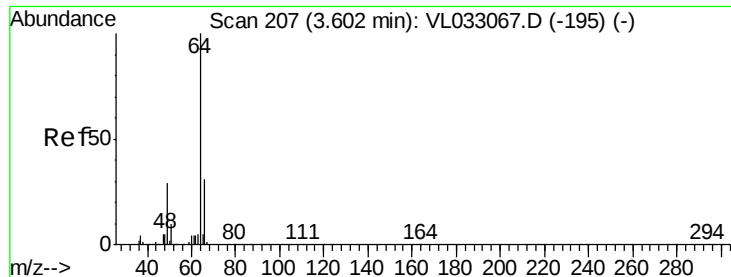
Tgt Ion: 94 Resp: 36935

Ion Ratio Lower Upper

94 100

96 91.1 72.8 109.2





#7

Chloroethane

Concen: 0.607 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 21704

Ion Ratio Lower Upper

64 100

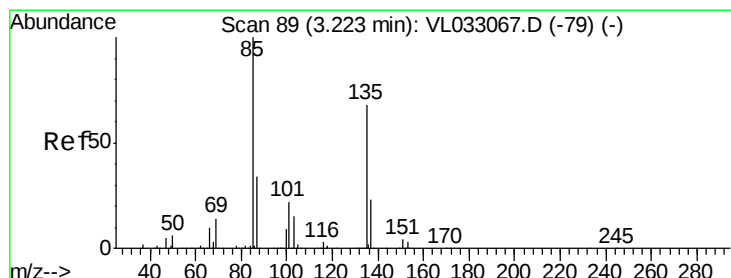
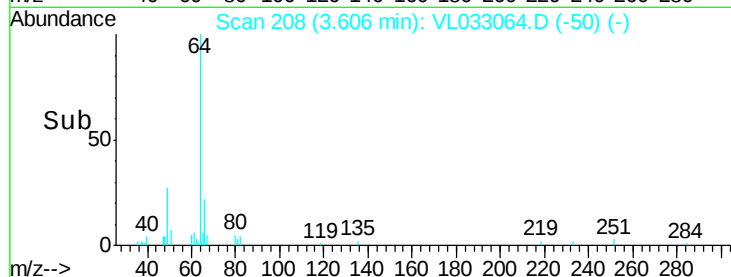
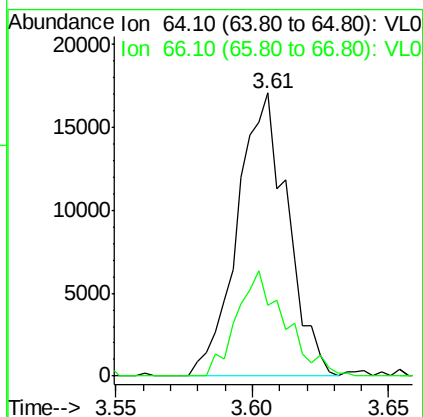
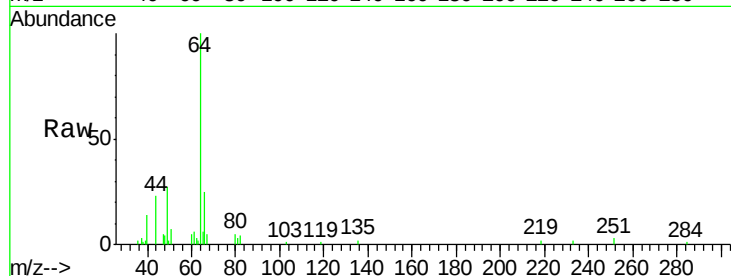
66 24.9 23.7 35.5

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#8

Dichlorotetrafluoroethane

Concen: 0.490 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033064.D

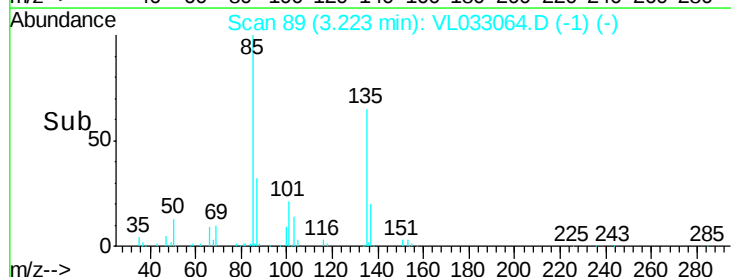
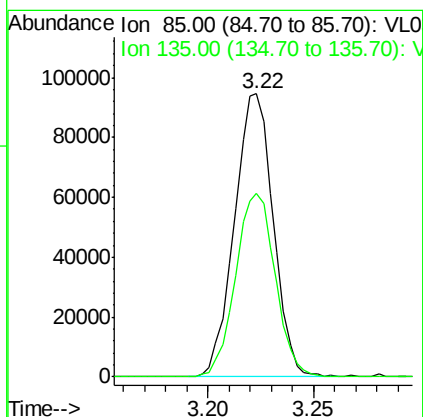
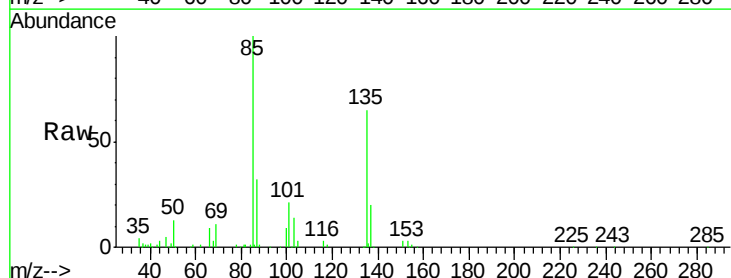
Acq: 4 Jan 2019 11:20

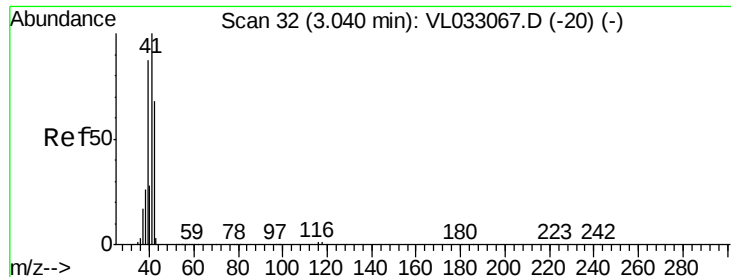
Tgt Ion: 85 Resp: 120716

Ion Ratio Lower Upper

85 100

135 66.3 54.9 82.3





#9

Propene

Concen: 0.418 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 27339

Ion Ratio Lower Upper

41 100

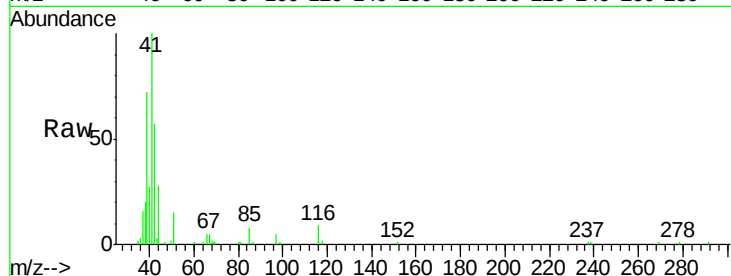
42 68.4 55.3 82.9

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

25000

20000

15000

10000

5000

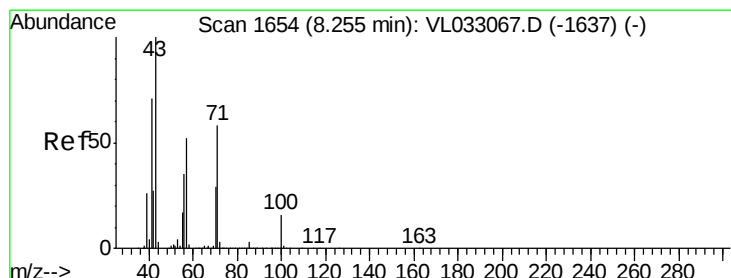
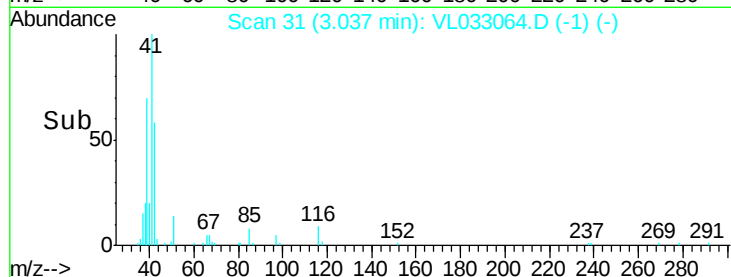
0

Time-->

3.00

3.05

3.10



#10

Heptane

Concen: 0.472 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033064.D

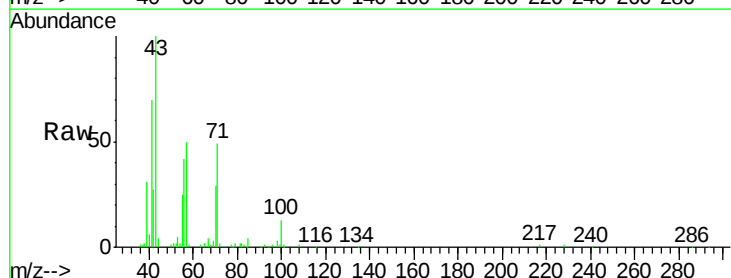
Acq: 4 Jan 2019 11:20

Tgt Ion: 43 Resp: 79012

Ion Ratio Lower Upper

43 100

57 53.6 41.9 62.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

50000

40000

30000

20000

10000

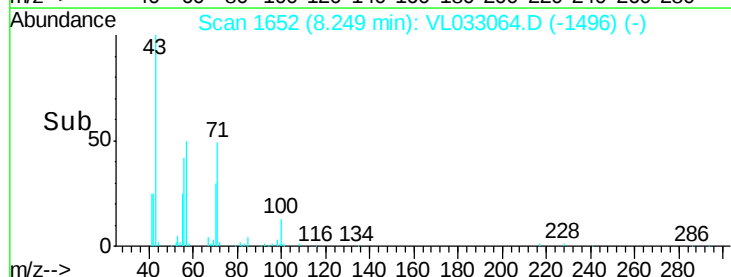
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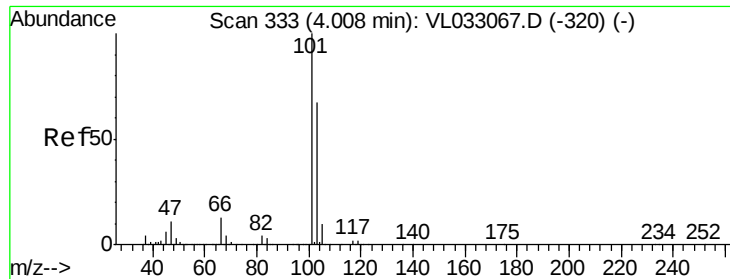
Time-->

8.20

8.25

8.30





#11

Trichlorofluoromethane

Concen: 0.603 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:101 Resp: 163884

Ion Ratio Lower Upper

101 100

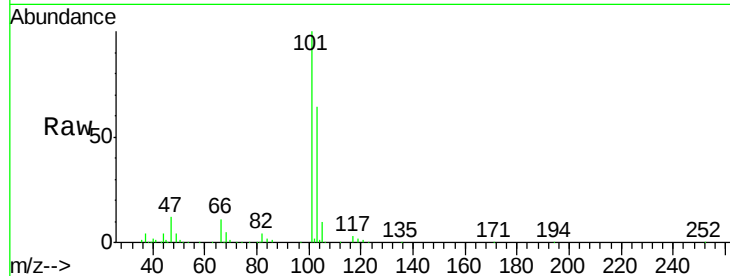
103 63.7 51.7 77.5

Manual Integrations

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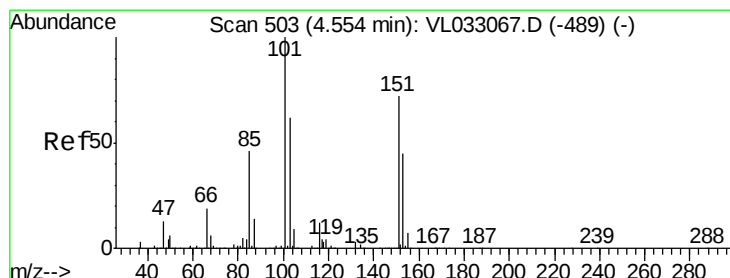
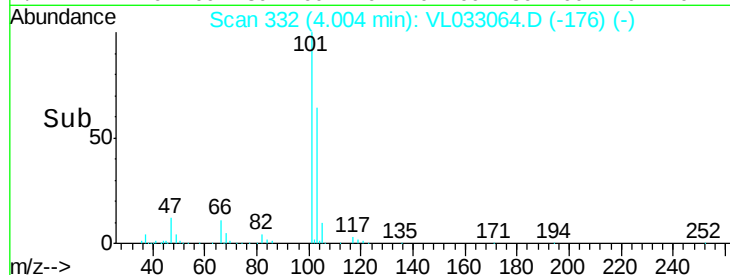
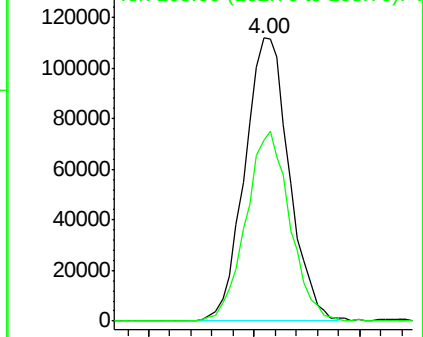
MMDadoda

1/8/2019 12:01:07 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.614 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033064.D

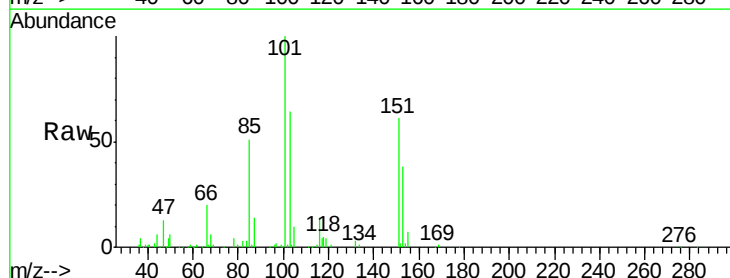
Acq: 4 Jan 2019 11:20

Tgt Ion:101 Resp: 112888

Ion Ratio Lower Upper

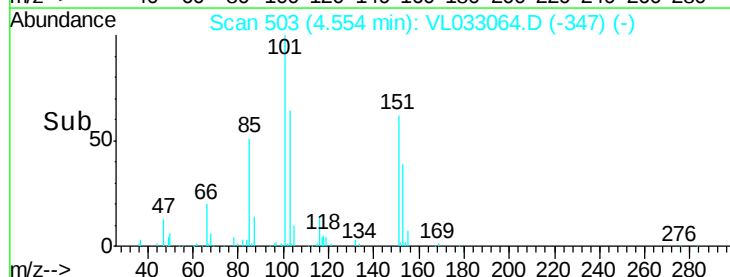
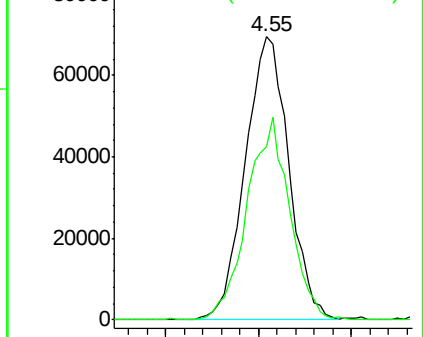
101 100

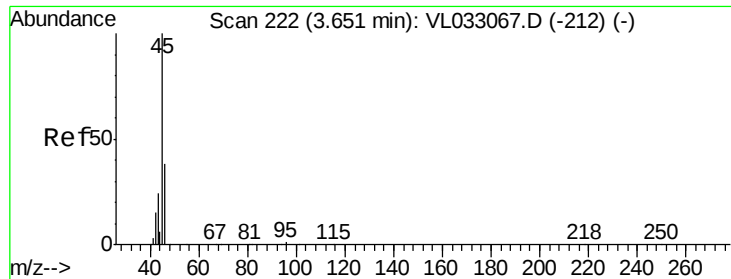
151 69.9 58.3 87.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





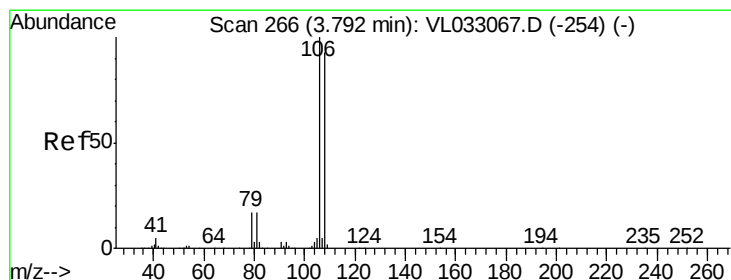
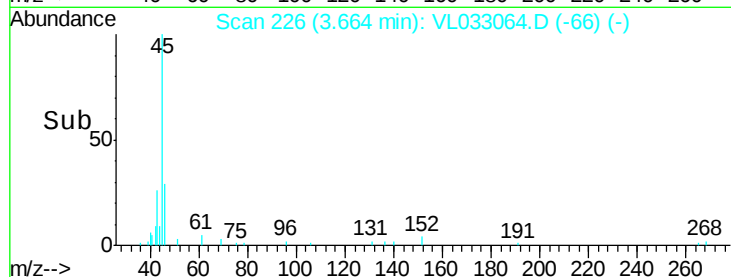
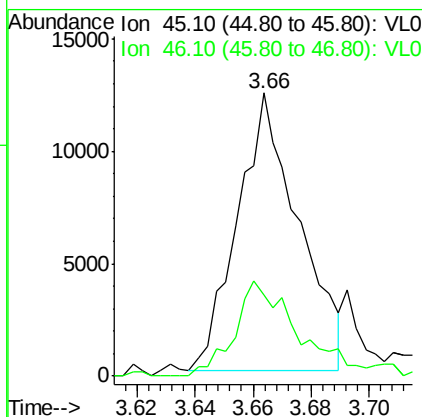
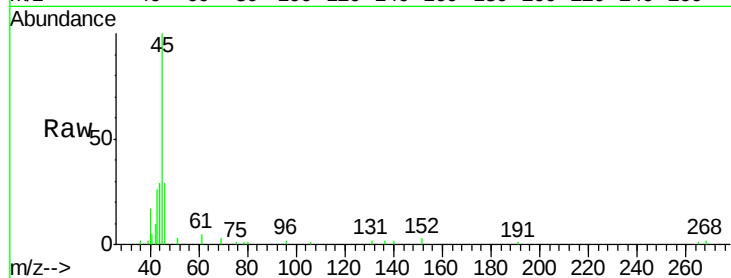
#13
Ethanol
Concen: 0.708 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.7	13.8	55.2

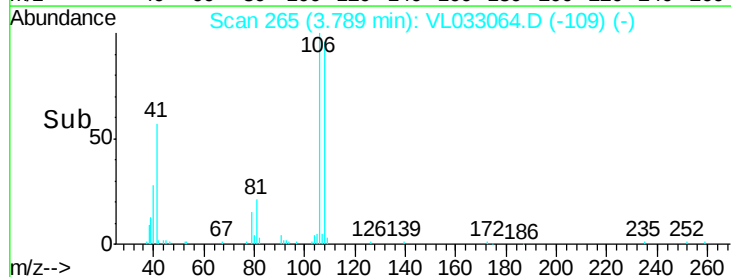
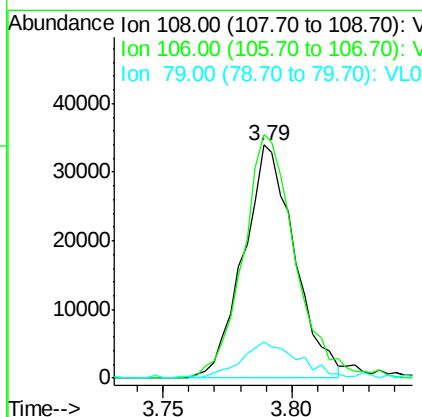
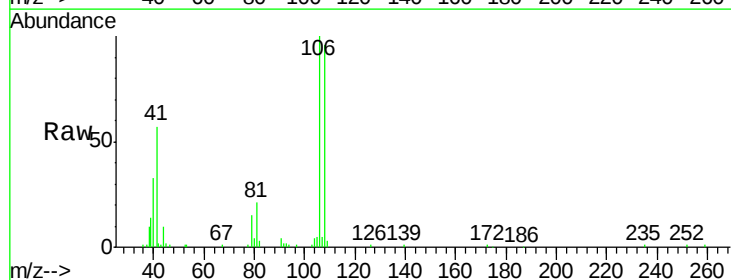
Manual Integrations
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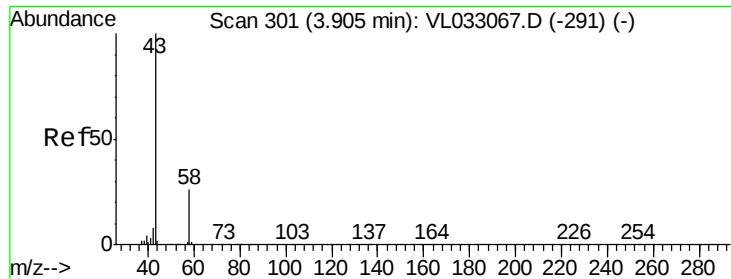
MMDadoda
1/8/2019 12:01:07 AM



#14
Bromoethene
Concen: 0.599 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.5	86.4	129.6
79	18.4	14.3	21.5





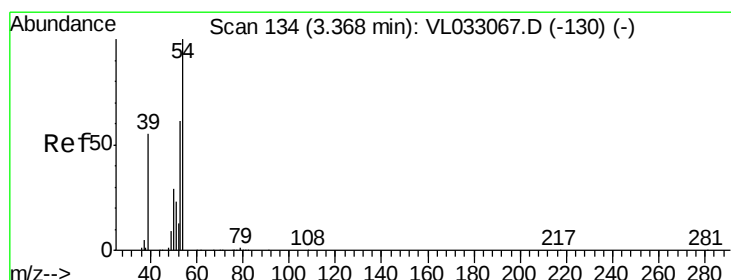
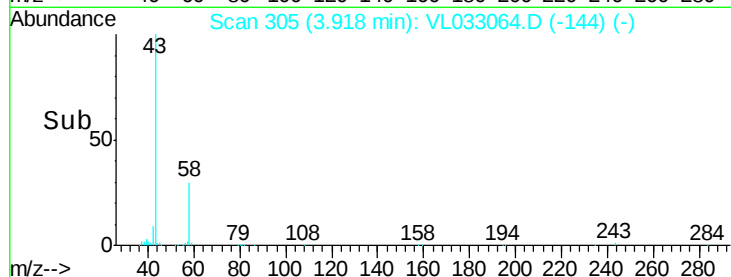
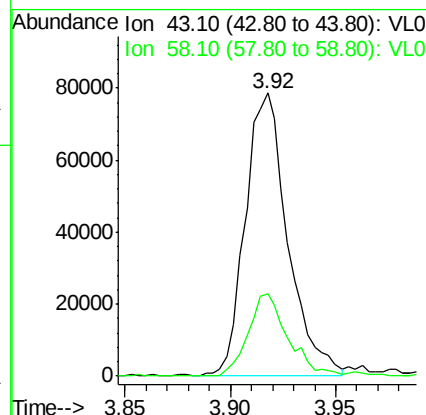
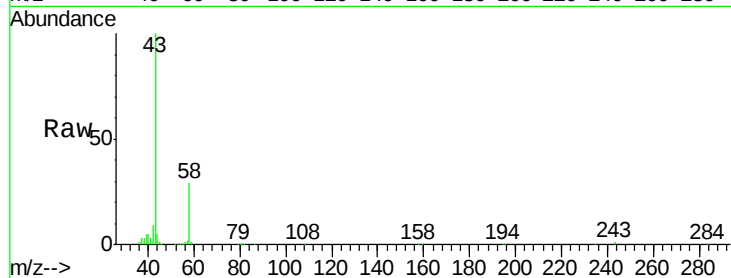
#15
Acetone
Concen: 0.602 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.02 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 109097
Ion Ratio Lower Upper
43 100
58 28.2 21.1 31.7

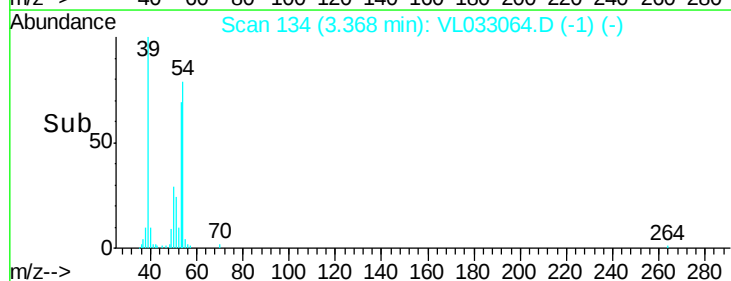
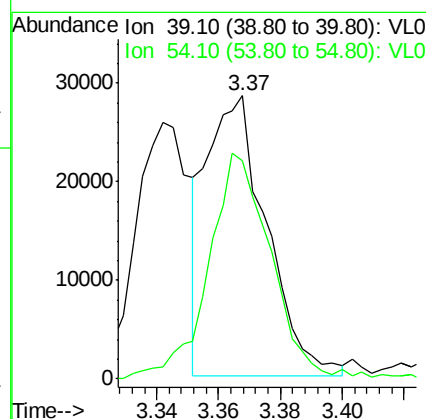
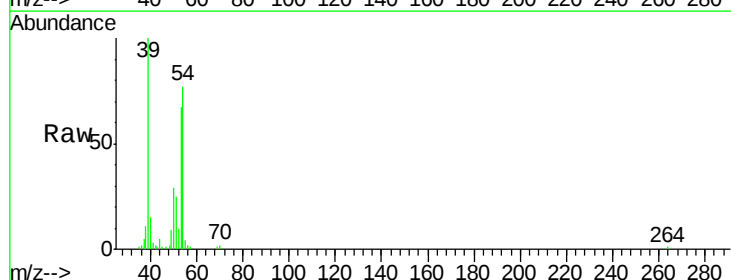
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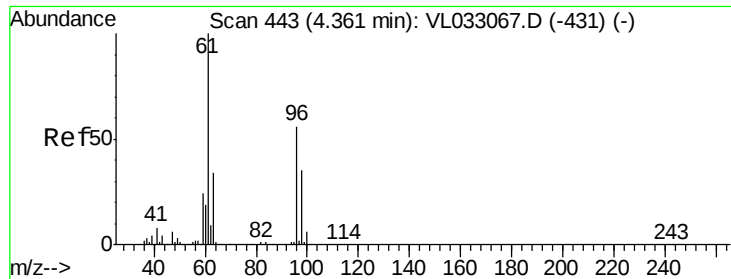
MMDadoda
1/8/2019 12:01:07 AM



#16
1,3-Butadiene
Concen: 0.484 ppbv
RT: 3.37 min Scan# 134
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion: 39 Resp: 38197
Ion Ratio Lower Upper
39 100
54 85.2 73.7 110.5





#17

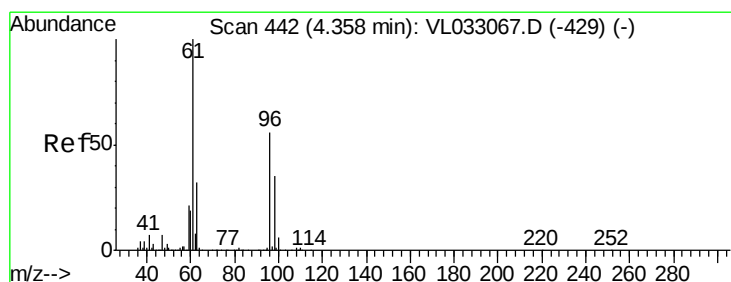
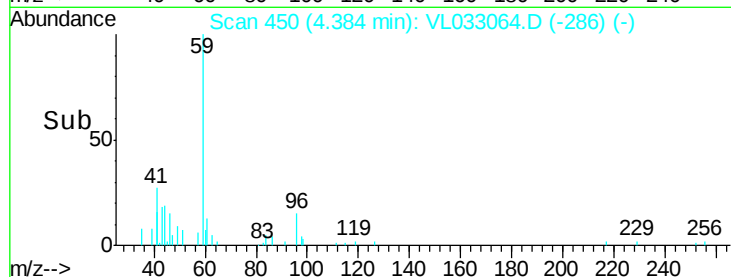
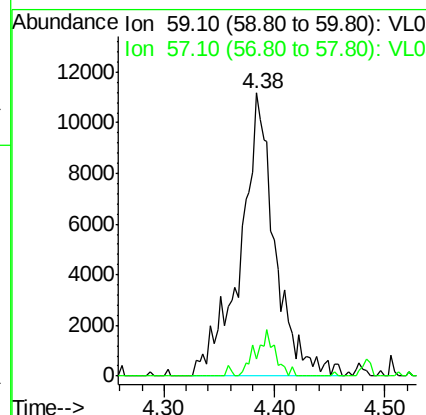
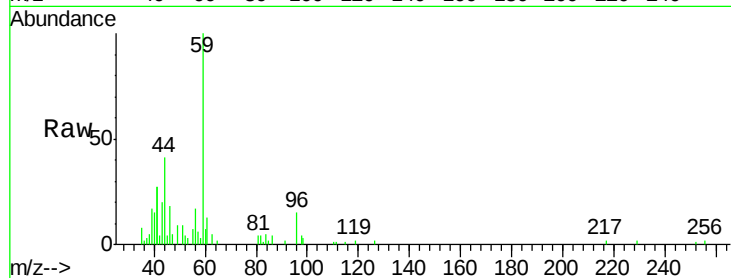
tert-Butyl alcohol
Concen: 0.602 ppbv m
RT: 4.38 min Scan# 450
Delta R.T. 0.03 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 59 Resp: 24359
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

Manual Integrations
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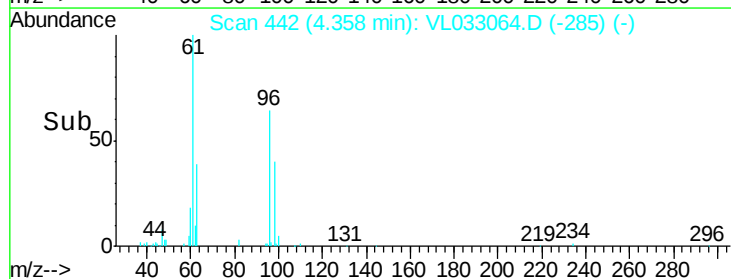
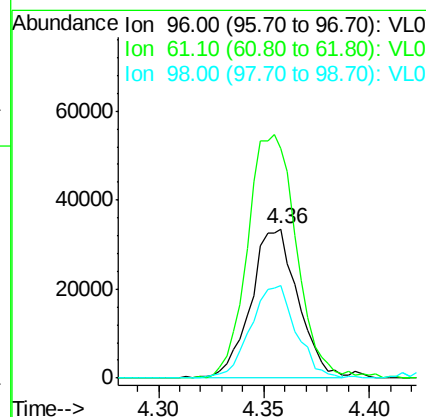
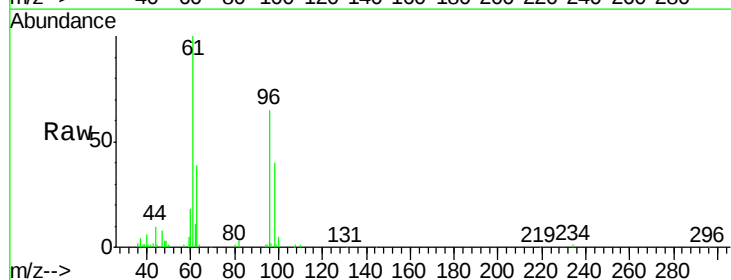
MMDadoda
1/8/2019 12:01:07 AM

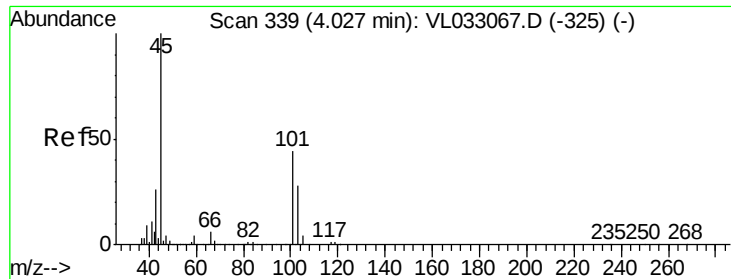


#18

1,1-Dichloroethene
Concen: 0.629 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion: 96 Resp: 51823
Ion Ratio Lower Upper
96 100
61 153.7 143.7 215.5
98 62.2 52.1 78.1





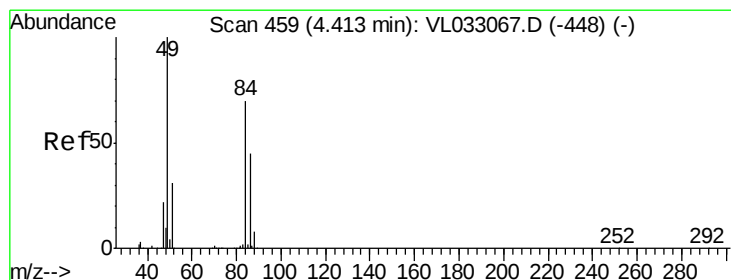
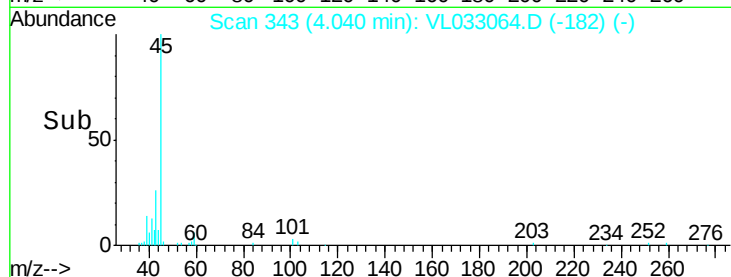
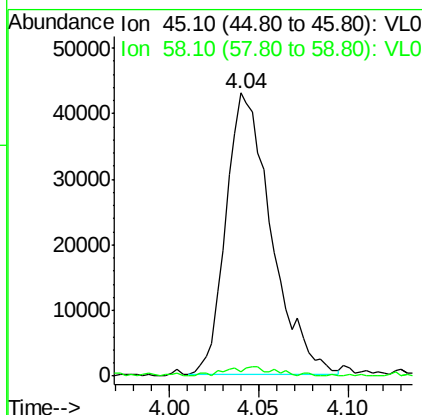
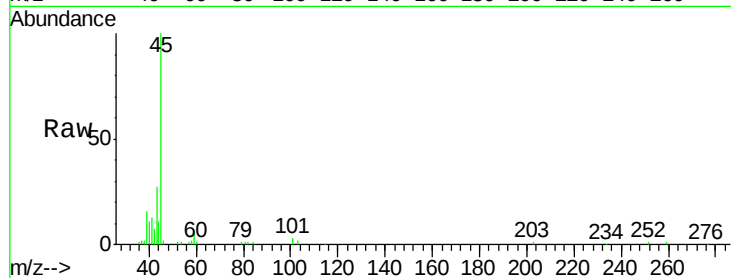
#19
Isopropyl Alcohol
Concen: 0.632 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 76529
Ion Ratio Lower Upper
45 100
58 3.9 1.4 2.2#

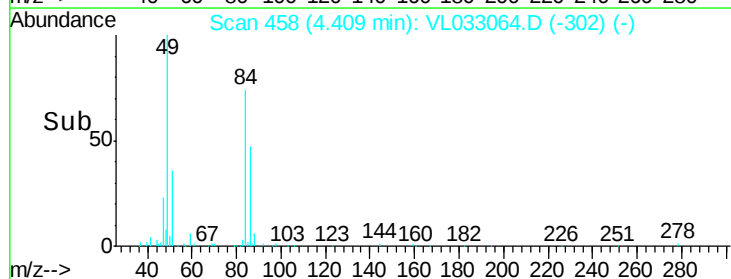
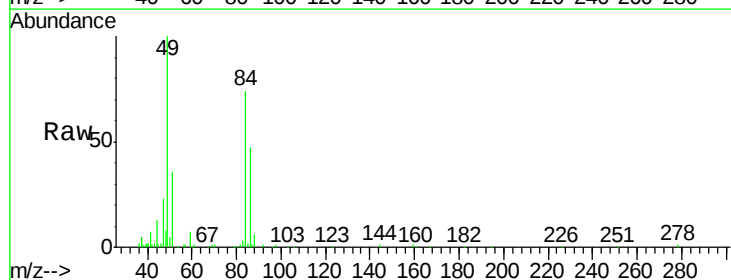
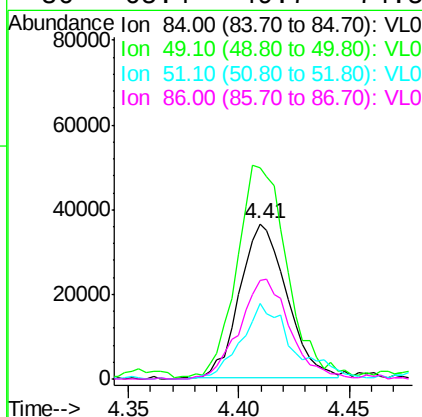
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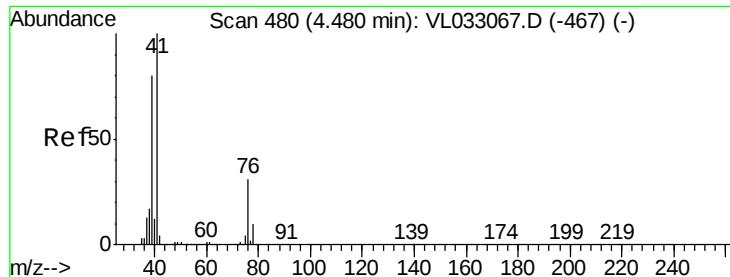
MMDadoda
1/8/2019 12:01:07 AM



#20
Methylene Chloride
Concen: 0.677 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion: 84 Resp: 54277
Ion Ratio Lower Upper
84 100
49 135.2 115.8 173.6
51 49.1 35.7 53.5
86 65.4 49.7 74.5





#21

Allvl Chloride

Concen: 0.537 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

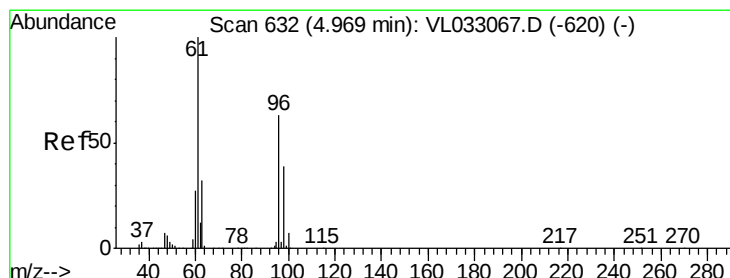
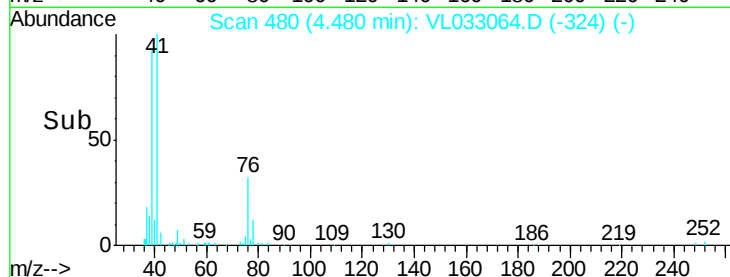
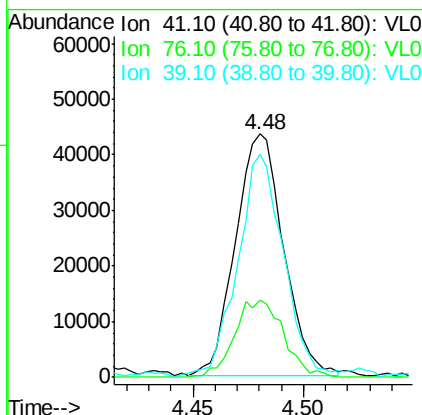
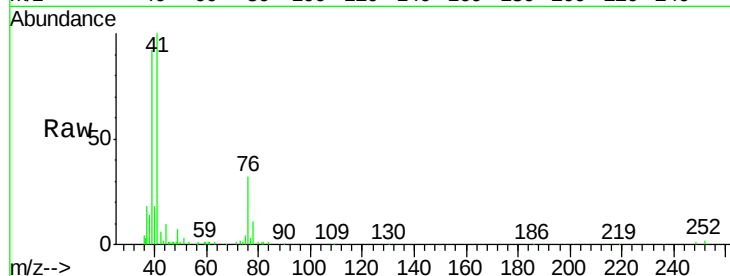
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	66209
Ion	Ratio	Lower	Upper
41	100		
76	32.4	24.6	36.8
39	91.8	62.8	94.2

Manual Integrations
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MMDadoda
1/8/2019 12:01:07 AM



#22

trans-1,2-Dichloroethene

Concen: 0.566 ppbv

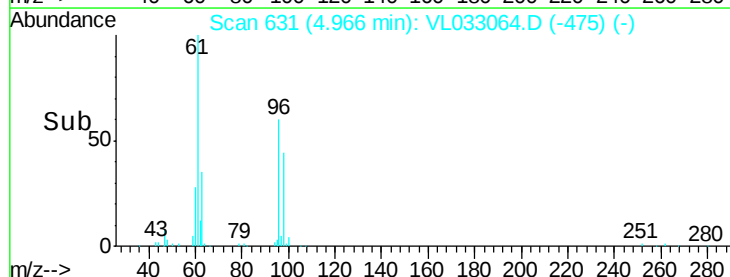
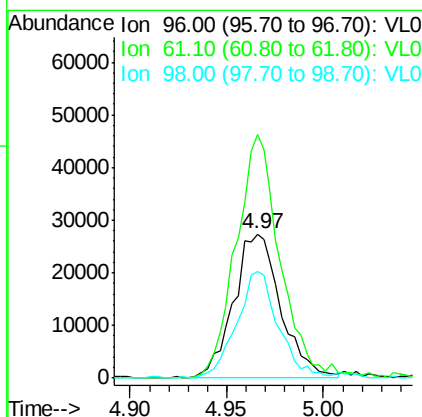
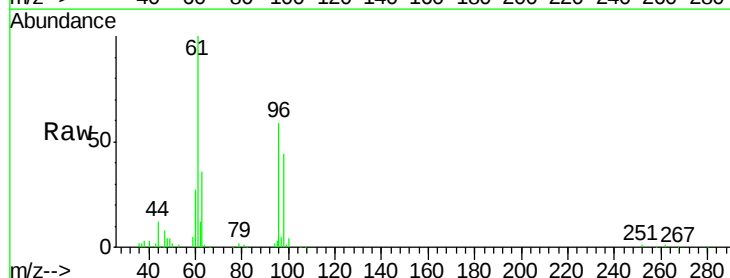
RT: 4.97 min Scan# 631

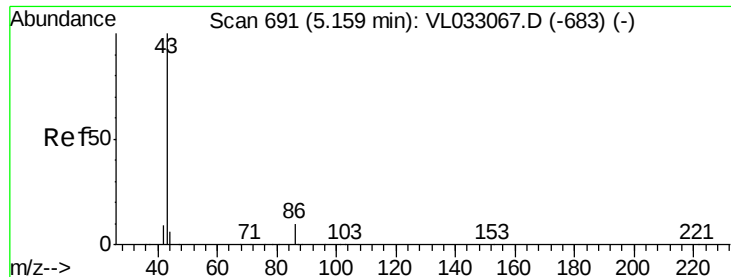
Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Tgt Ion:	96	Resp:	45500
Ion	Ratio	Lower	Upper
96	100		
61	169.9	125.2	187.8
98	74.2	50.9	76.3





#23

Vinyl Acetate

Concen: 0.461 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

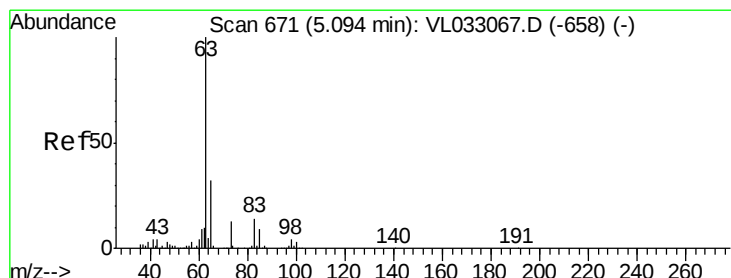
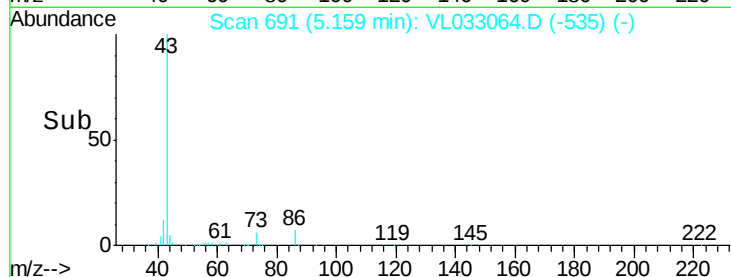
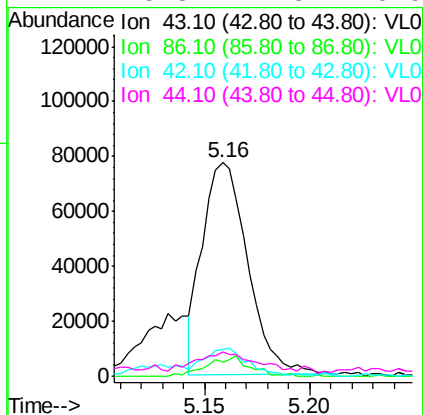
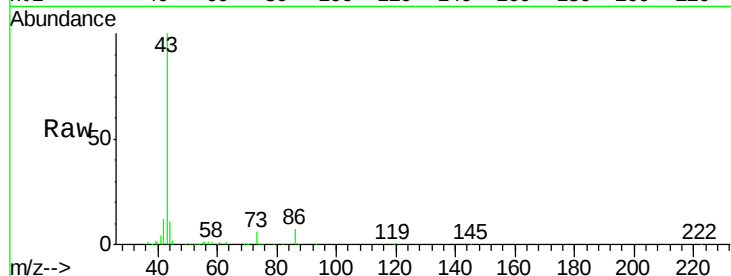
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	115533
Ion Ratio	Lower	Upper	
43	100		
86	7.0	6.2	9.4
42	12.5	8.1	12.1#
44	8.3	4.3	6.5#

Manual Integrations
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MMDadoda
1/8/2019 12:01:07 AM



#24

1,1-Dichloroethane

Concen: 0.560 ppbv

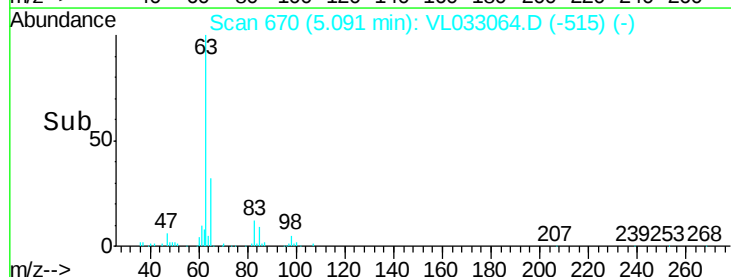
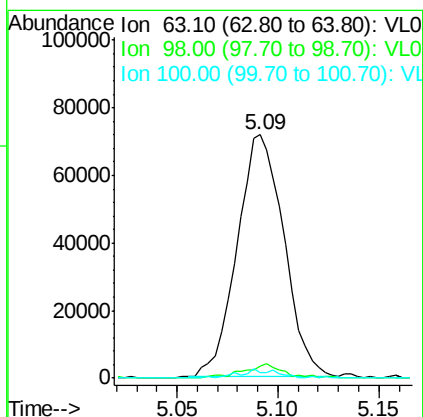
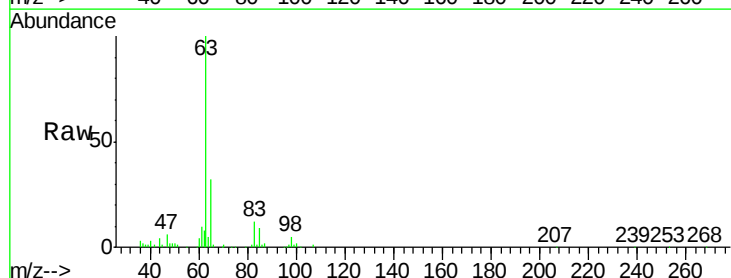
RT: 5.09 min Scan# 670

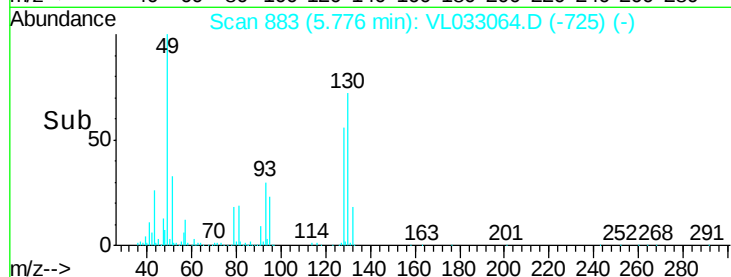
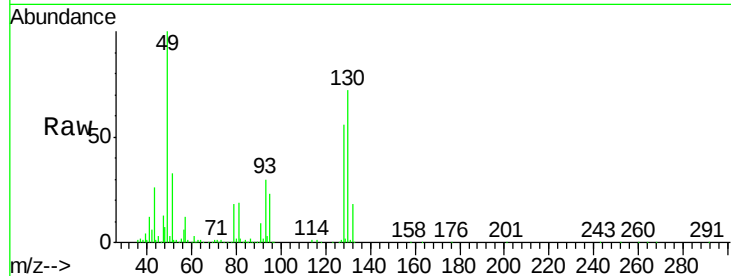
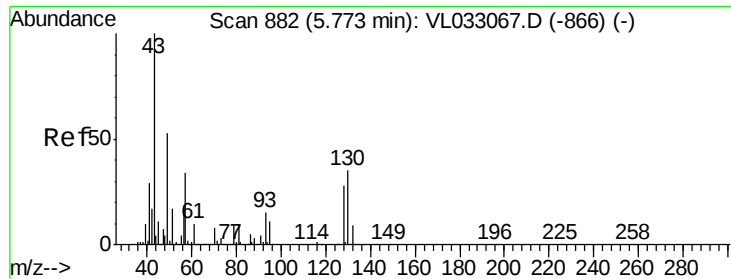
Delta R.T. -0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

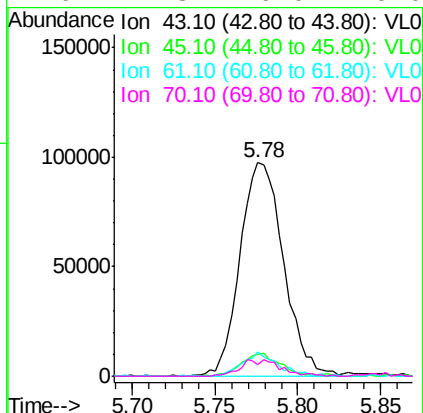
Tgt Ion:	63	Resp:	116462
Ion Ratio	Lower	Upper	
63	100		
98	5.0	2.4	7.2
100	2.2	1.4	4.0





#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

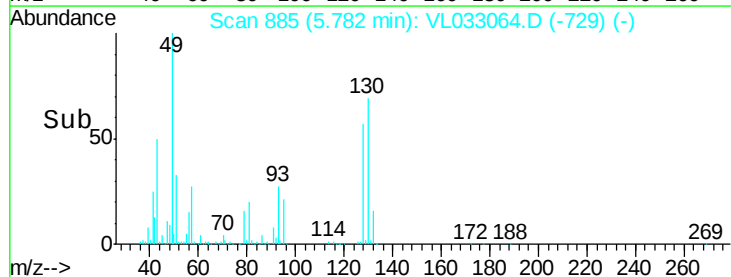
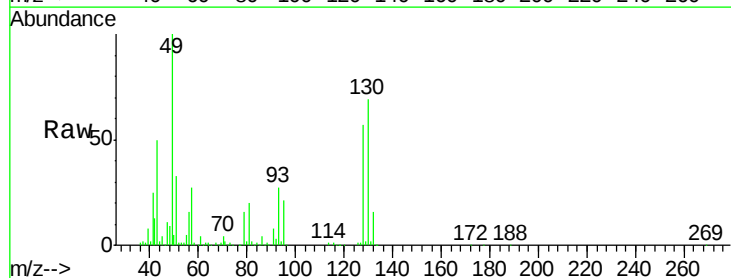
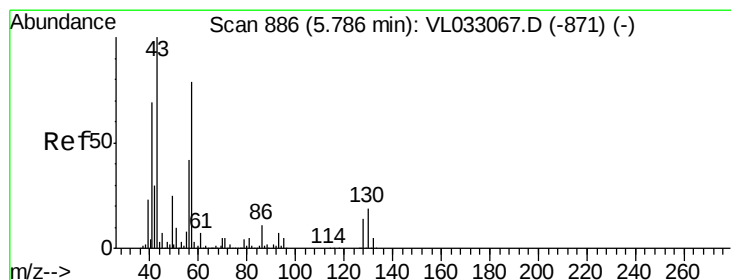
Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.9	7.9	11.9		
61	9.4	7.8	11.8		
70	7.3	6.0	9.0		



Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

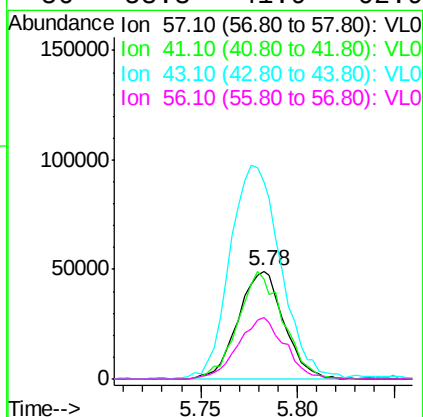
Manual Integrations
APPROVED

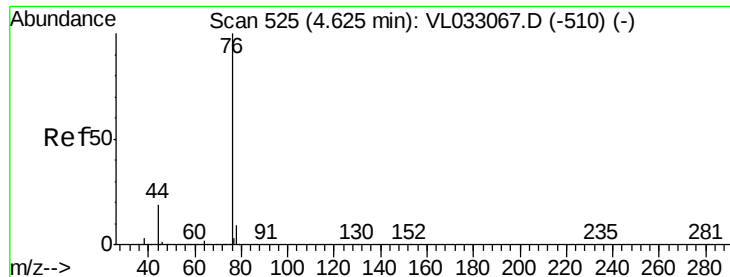
MMDadoda
1/8/2019 12:01:07 AM



#26
Hexane
Concen: 0.526 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	98.5	70.8	106.2		
43	224.3	171.8	257.6		
56	58.3	41.9	62.9		





#27

Carbon Disulfide

Concen: 0.535 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

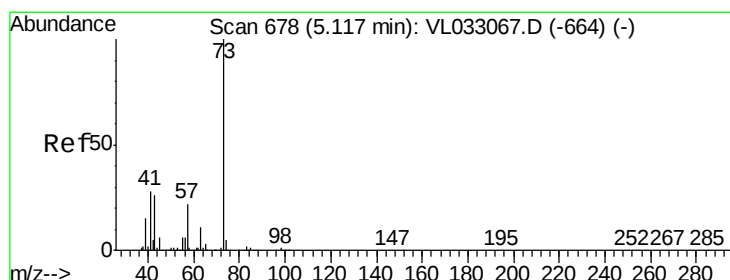
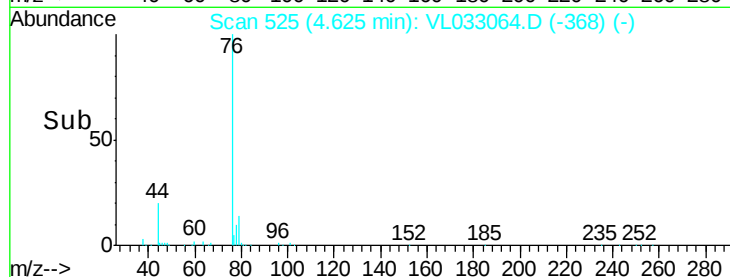
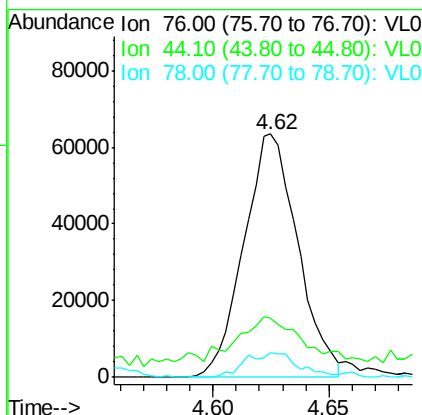
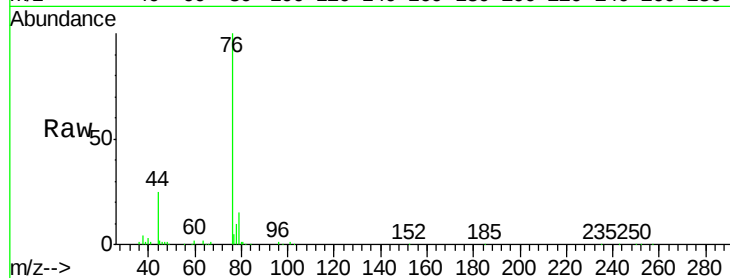
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	102853
Ion Ratio	Lower	Upper	
76	100		
44	31.2	13.9	20.9#
78	10.8	7.3	10.9

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.502 ppbv

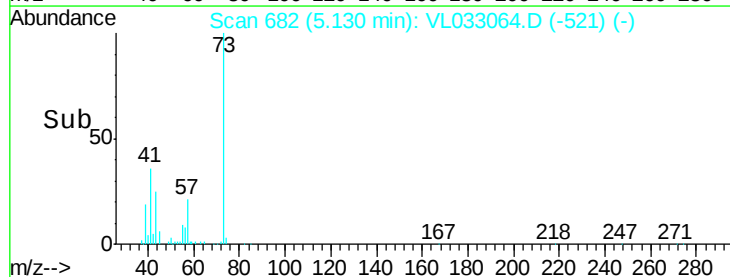
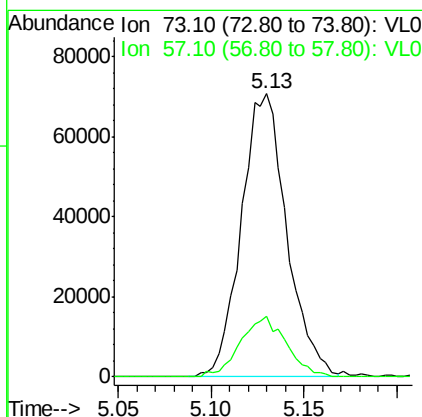
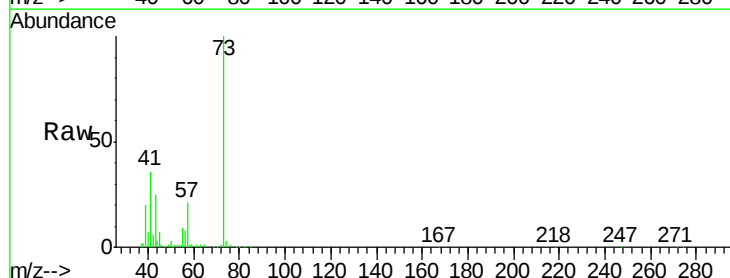
RT: 5.13 min Scan# 682

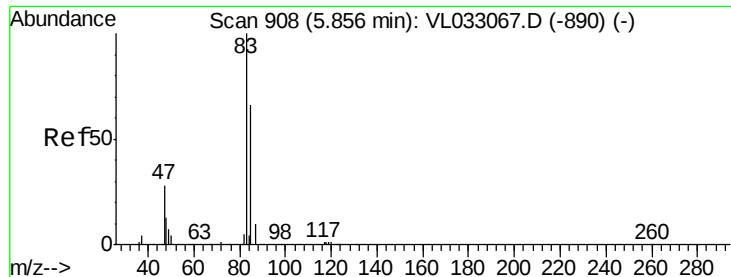
Delta R.T. 0.02 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Tgt Ion:	73	Resp:	120937
Ion Ratio	Lower	Upper	
73	100		
57	21.7	17.5	26.3





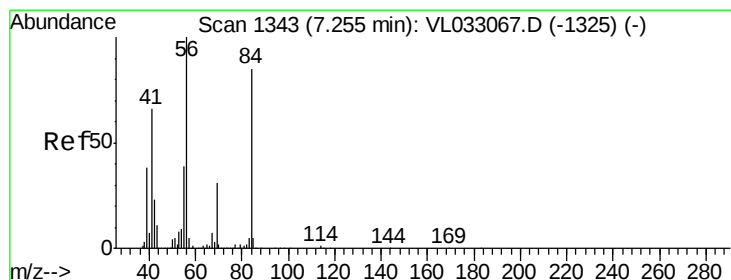
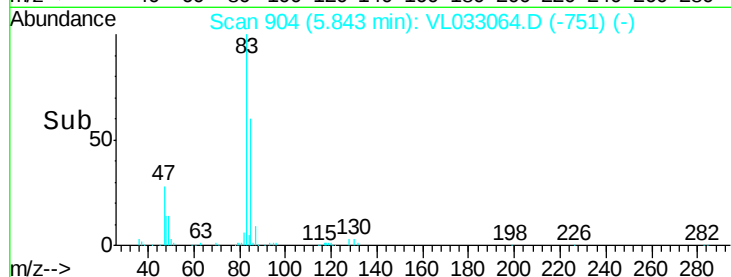
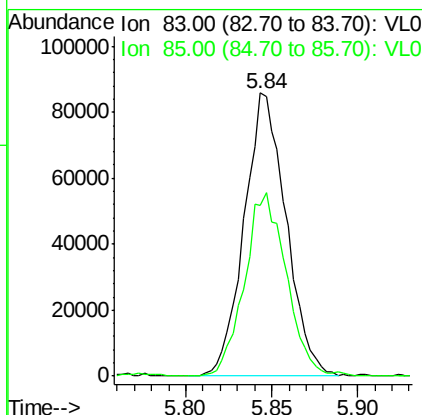
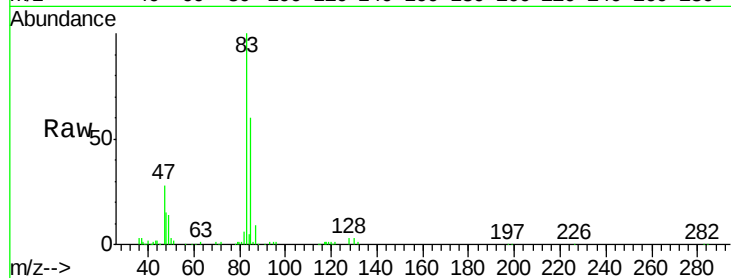
#29
Chloroform
Concen: 0.568 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	144871
Ion Ratio	Lower	Upper	
83	100		
85	60.2	52.5	78.7

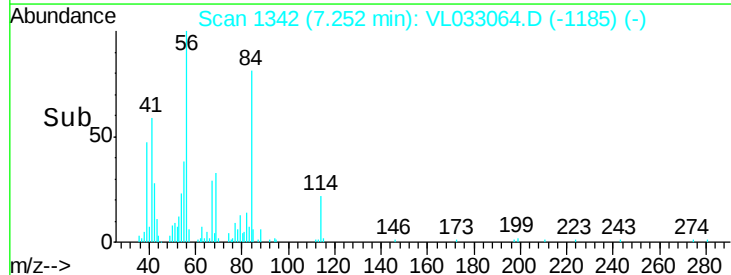
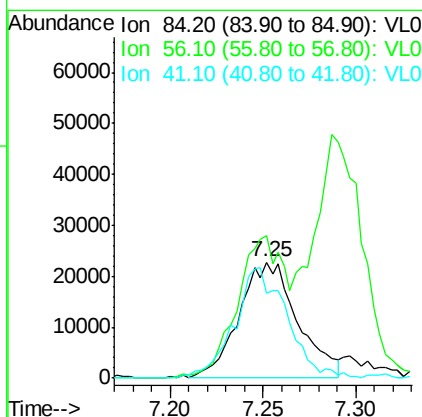
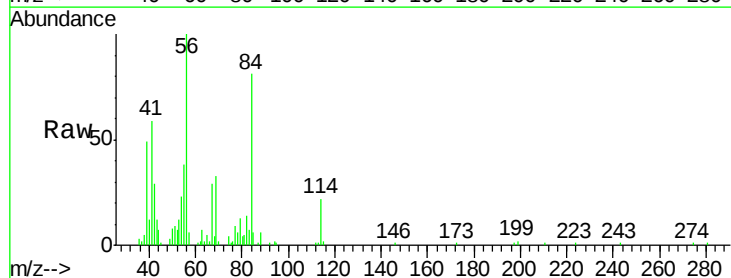
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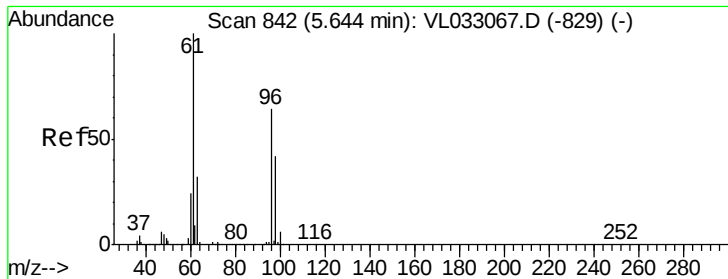
MMDadoda
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#30
Cyclohexane
Concen: 0.434 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	84	Resp	50148
Ion Ratio	Lower	Upper	
84	100		
56	0.0	101.8	152.6#
41	86.5	63.2	94.8





#31

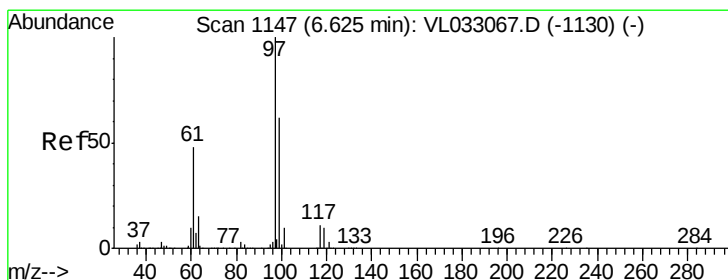
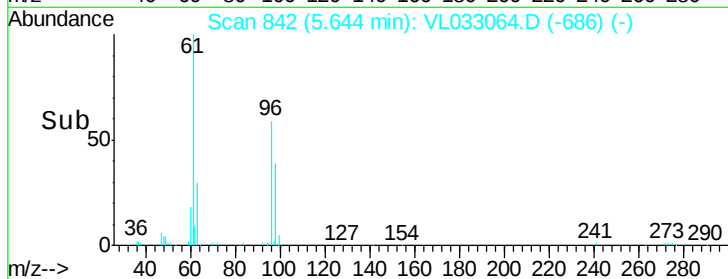
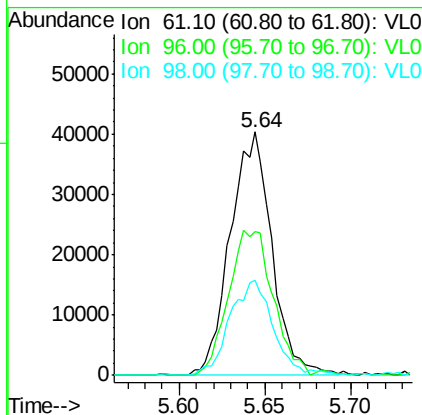
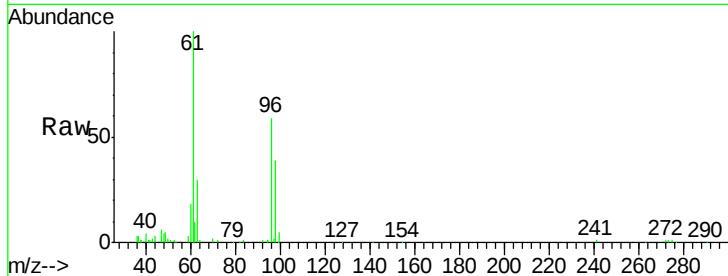
cis-1,2-Dichloroethene
Concen: 0.476 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.2	52.8	79.2
98	39.1	33.8	50.6

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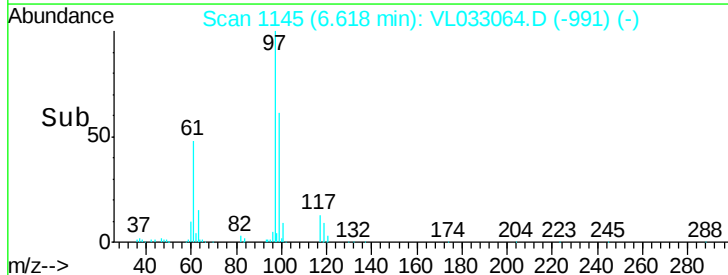
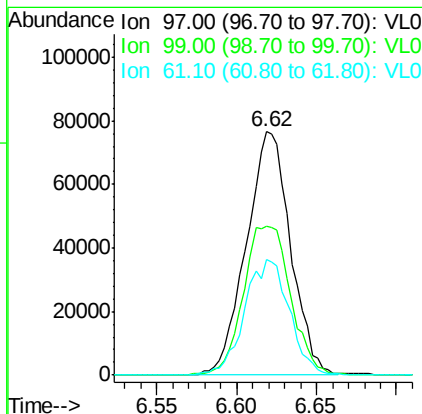
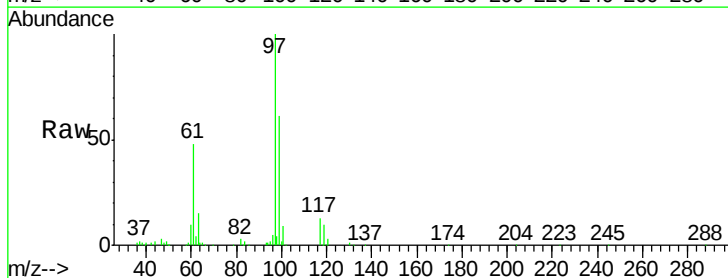
MMDadoda
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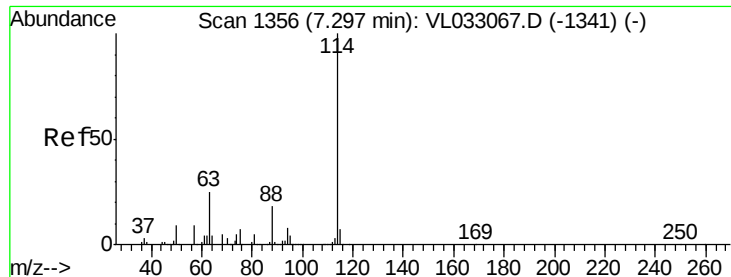


#32

1,1,1-Trichloroethane
Concen: 0.540 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.1	76.7
61	47.8	38.3	57.5





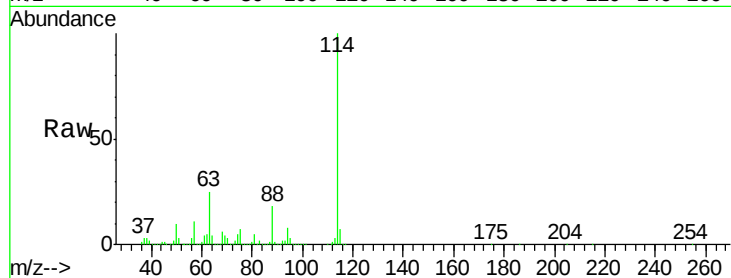
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

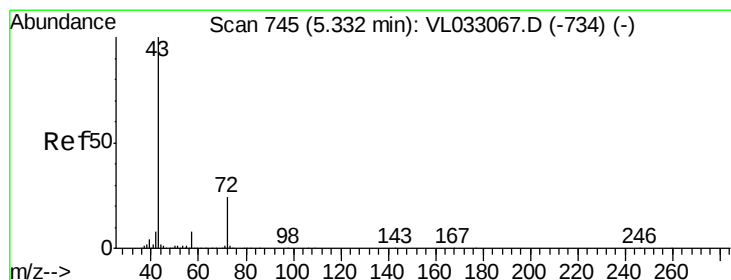
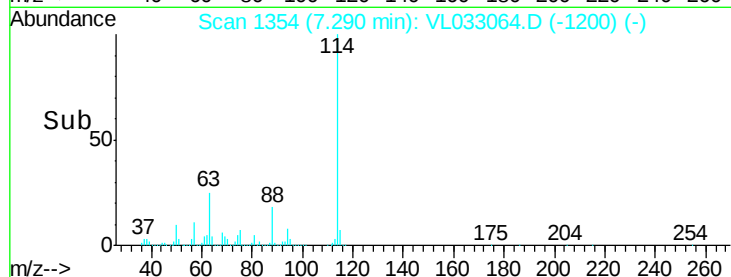
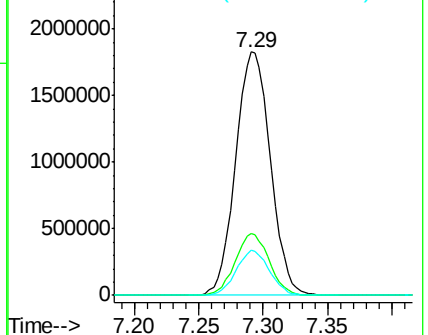
Tot Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.1	30.1
88	17.7	14.0	21.0

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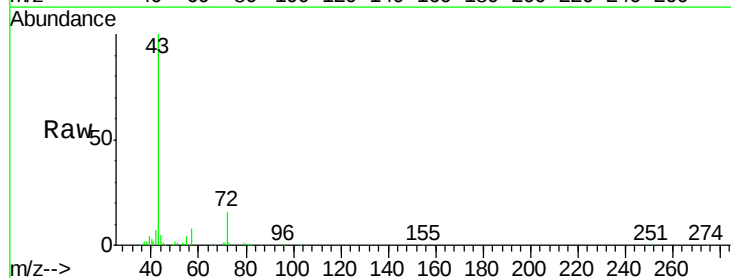


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

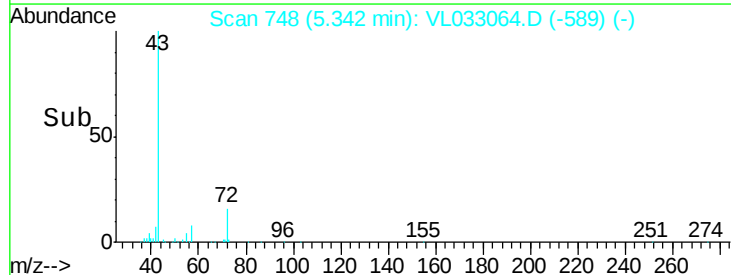
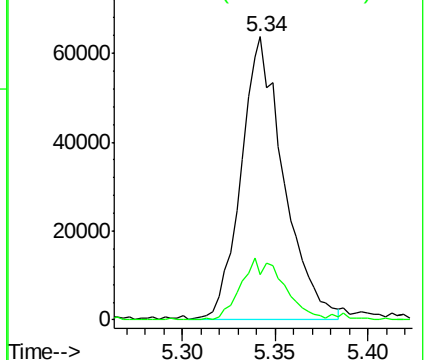


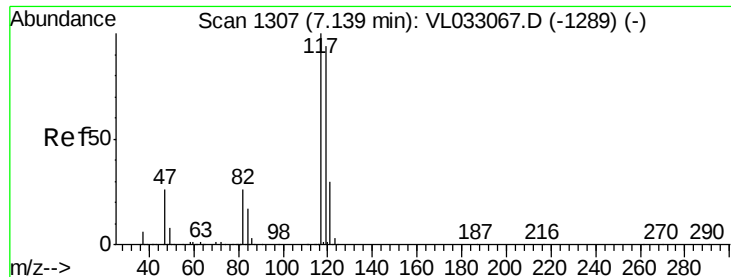
#34
 2-Butanone
 Concen: 0.504 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.9	28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





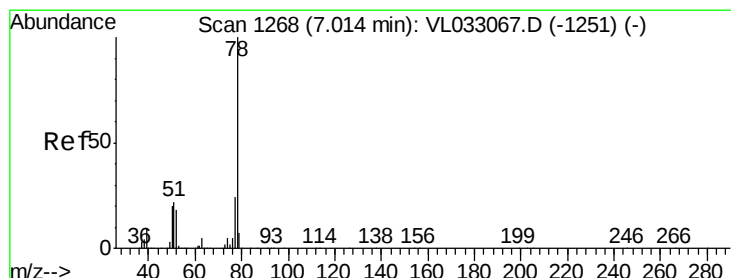
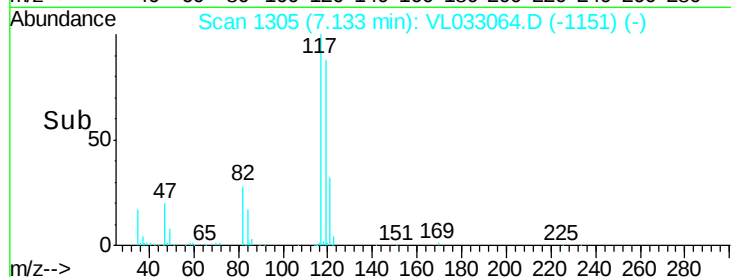
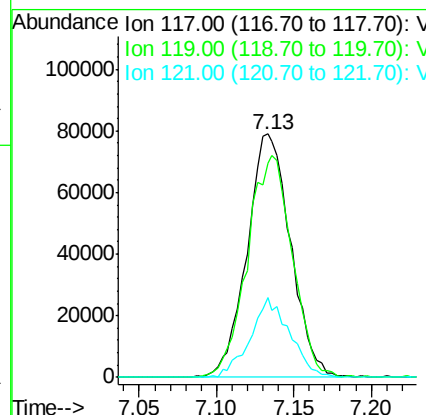
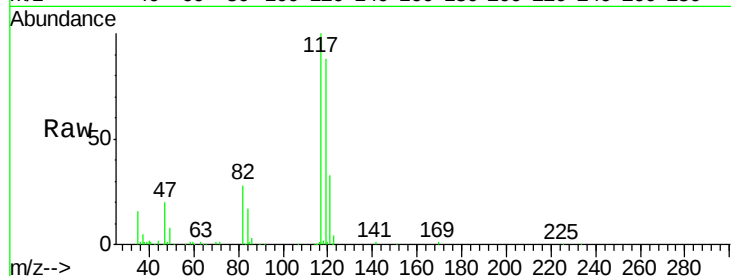
#35
Carbon Tetrachloride
Concen: 0.522 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.8	76.5	114.7
121	32.6	25.2	37.8

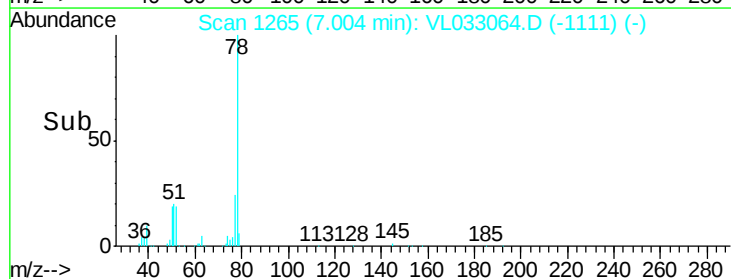
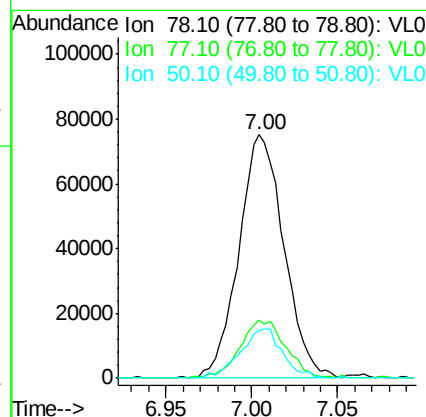
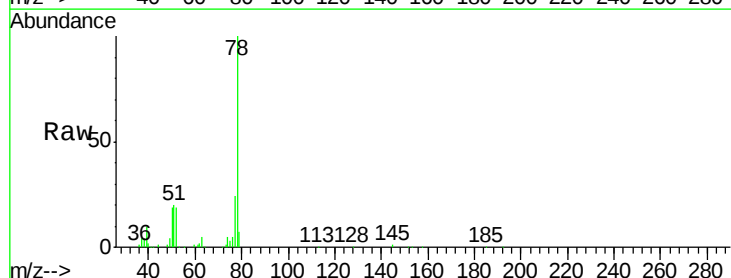
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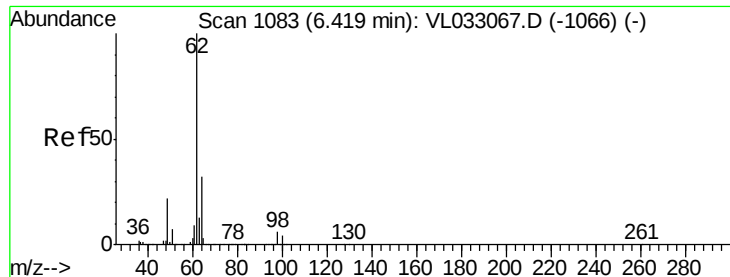
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#36
Benzene
Concen: 0.480 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.5	27.7
50	19.4	15.7	23.5





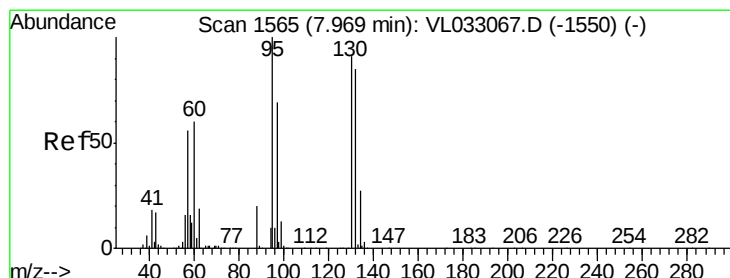
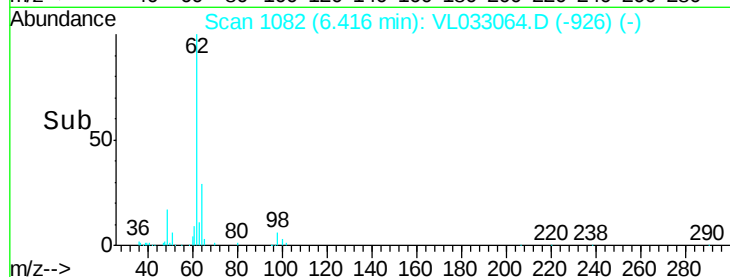
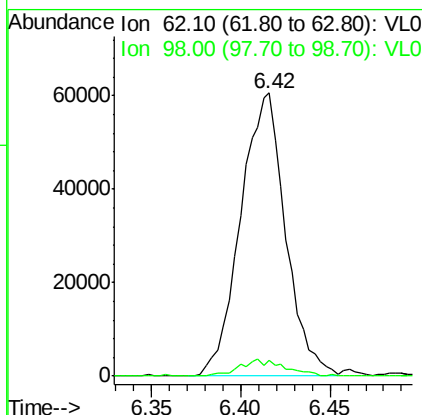
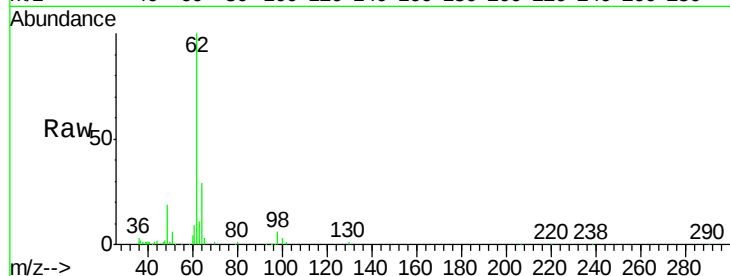
#37
 1,2-Dichloroethane
 Concen: 0.555 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
62	100	106479		
98	6.1		4.6	7.0

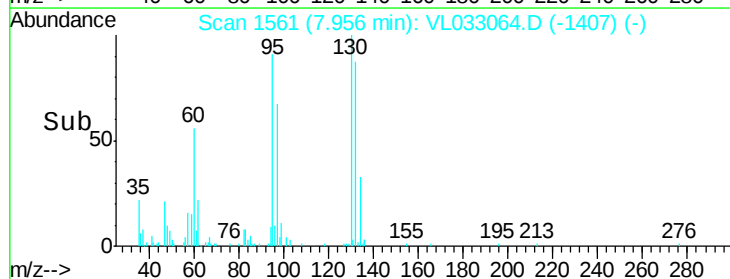
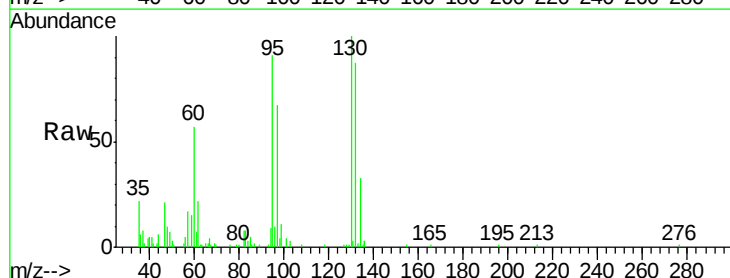
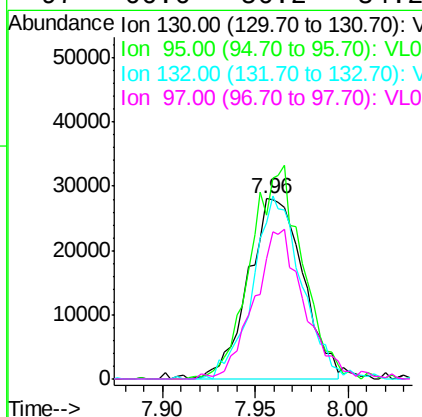
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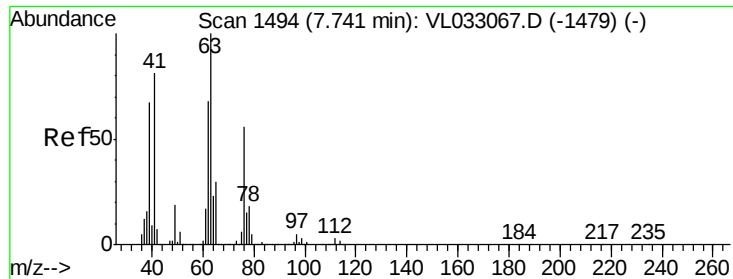
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#38
 Trichloroethene
 Concen: 0.490 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	57705		
95	90.5		88.6	132.8
132	86.8		74.2	111.2
97	66.6		56.2	84.2





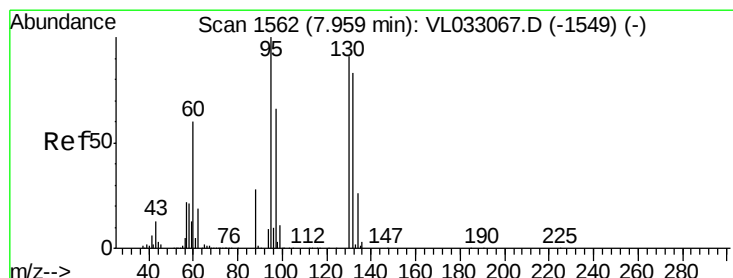
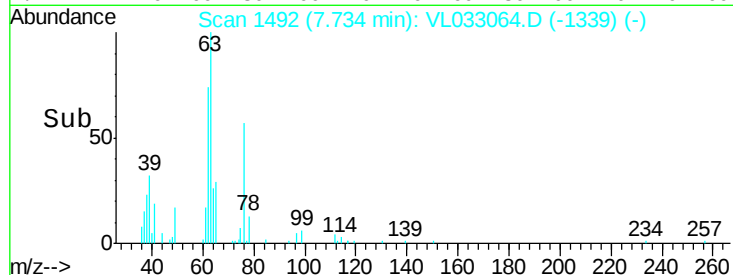
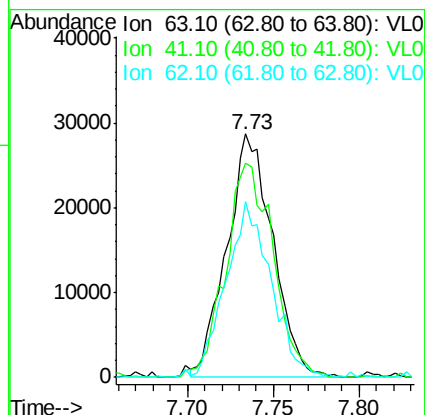
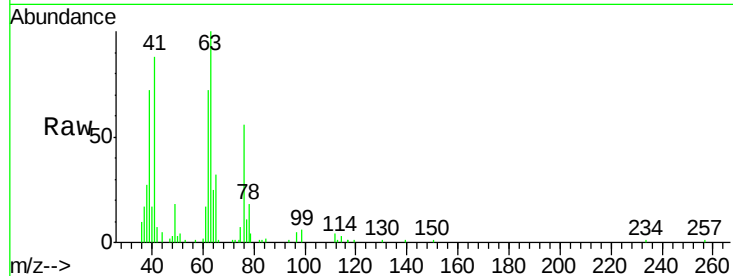
#39
 1,2-Dichloropropane
 Concen: 0.505 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	87.7	61.9	92.9
62	71.5	55.8	83.6

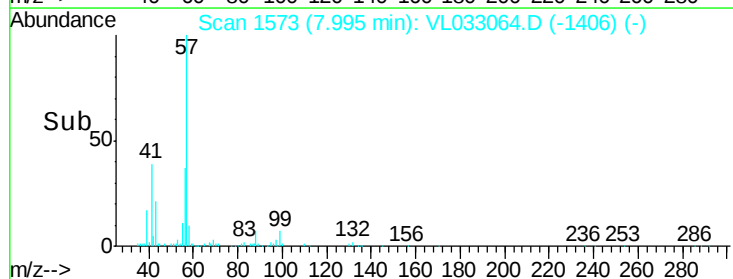
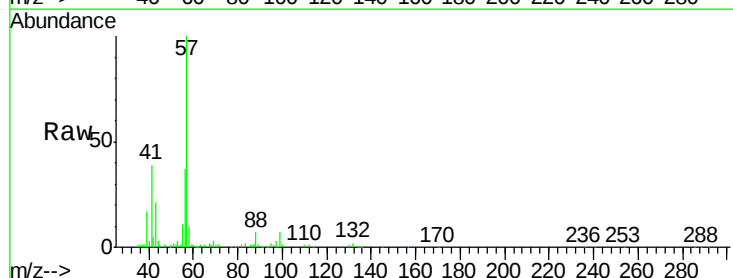
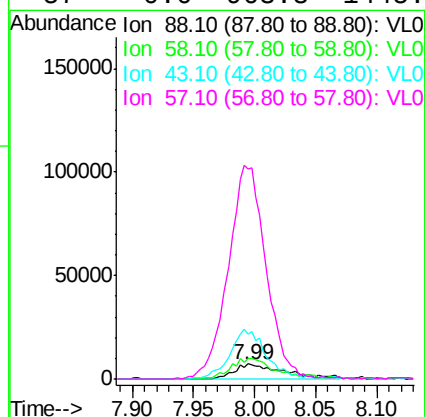
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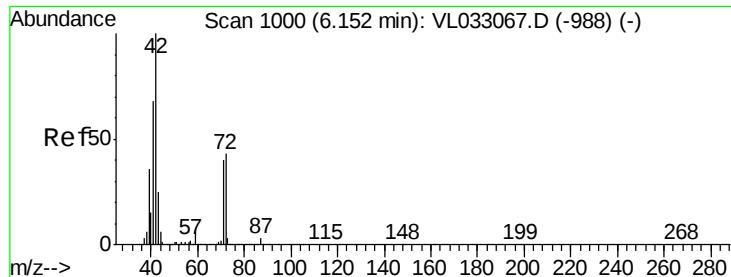
MMDadoda
 1/8/2019 12:01:07 AM



#40
 1,4-Dioxane
 Concen: 0.511 ppbv m
 RT: 7.99 min Scan# 1573
 Delta R.T. 0.04 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	101.9	152.9#
43	0.0	212.6	319.0#
57	0.0	963.8	1445.6#





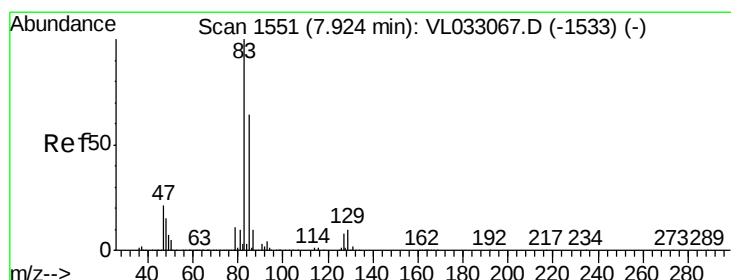
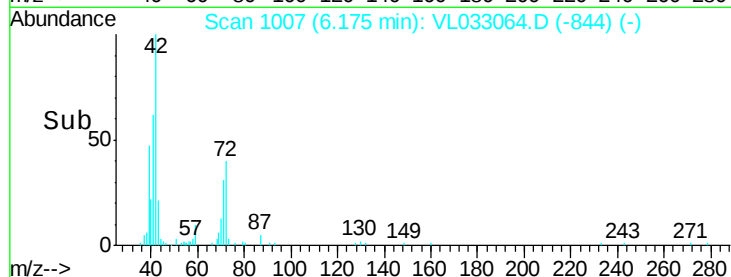
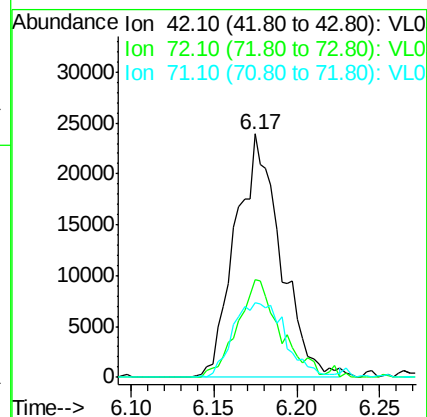
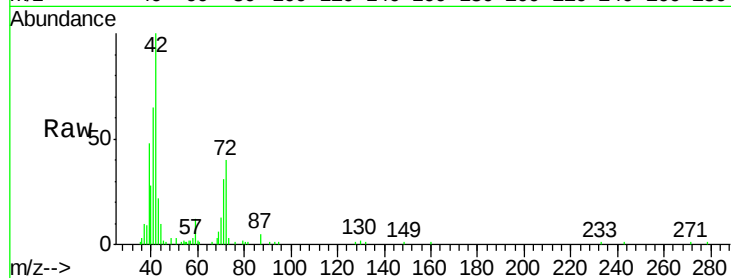
#41
Tetrahydrofuran
Concen: 0.444 ppbv m
RT: 6.17 min Scan# 1007
Delta R.T. 0.02 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.8	32.9	49.3
71	36.3	31.8	47.6

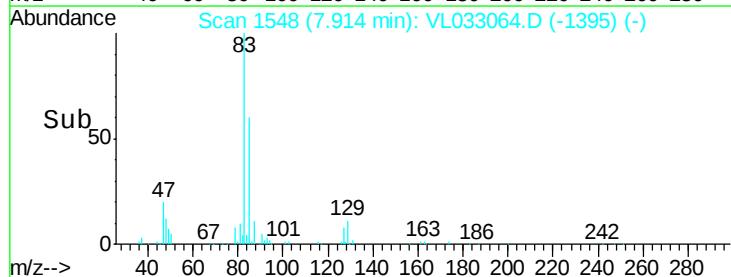
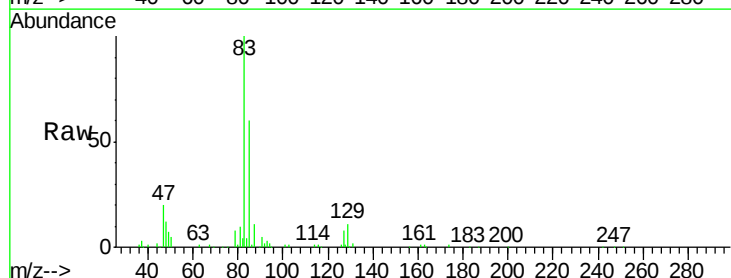
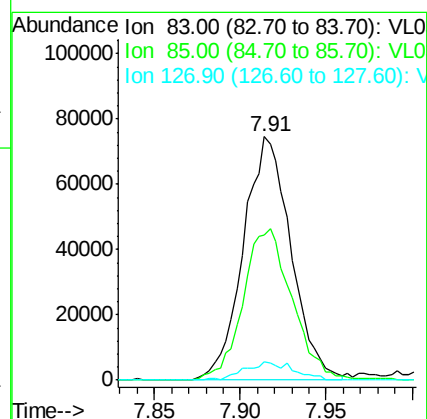
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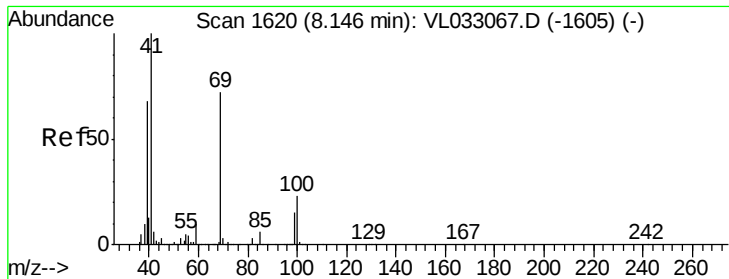
MMDadoda
1/8/2019 12:01:07 AM



#42
Bromodichloromethane
Concen: 0.516 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.8	51.0	76.4
127	7.6	6.5	9.7





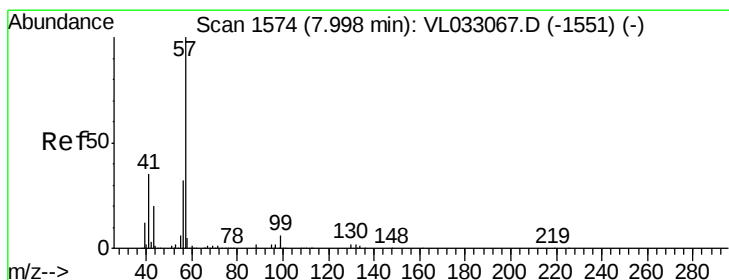
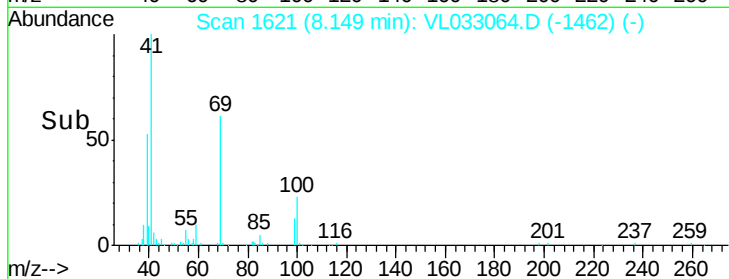
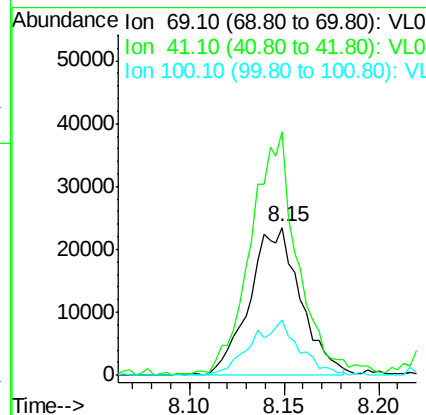
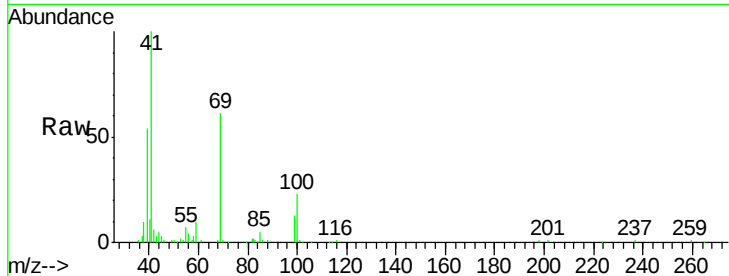
#43
Methvl Methacrylate
Concen: 0.416 ppbv m
RT: 8.15 min Scan# 1621
Delta R.T. 0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	114.0	171.0#
100	0.0	26.3	39.5#

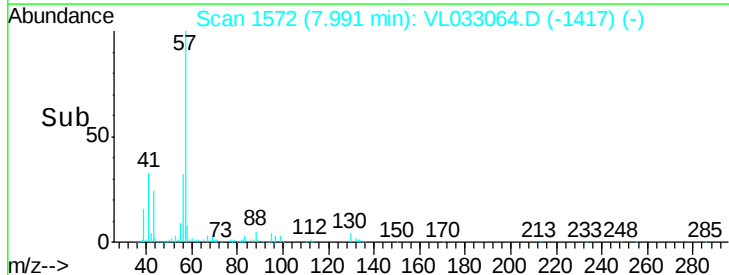
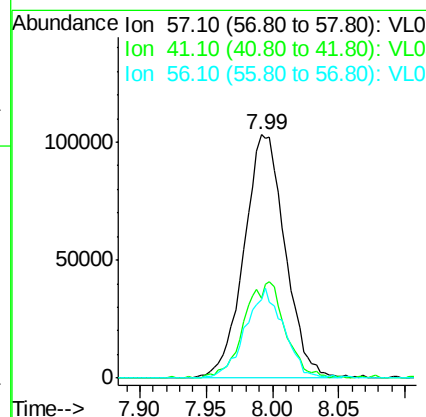
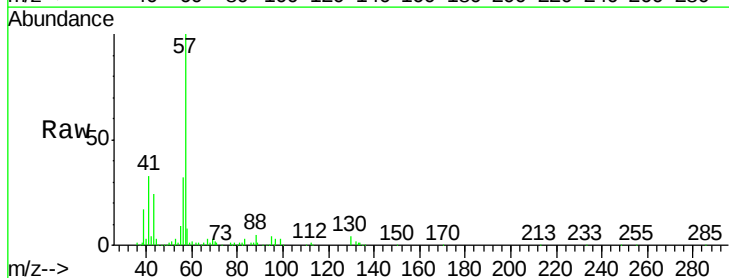
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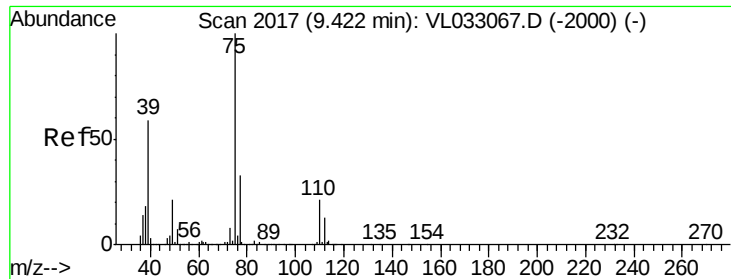
MMDadoda
1/8/2019 12:01:07 AM



#44
2,2,4-Trimethylpentane
Concen: 0.445 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	40.0	26.2	39.2#
56	34.6	24.9	37.3





#45

t-1,3-Dichloropropene

Concen: 0.318 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 46234

Ion Ratio Lower Upper

75 100

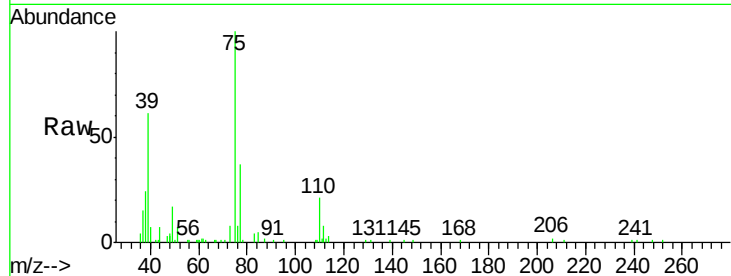
77 36.6 24.8 37.2

Manual Integrations

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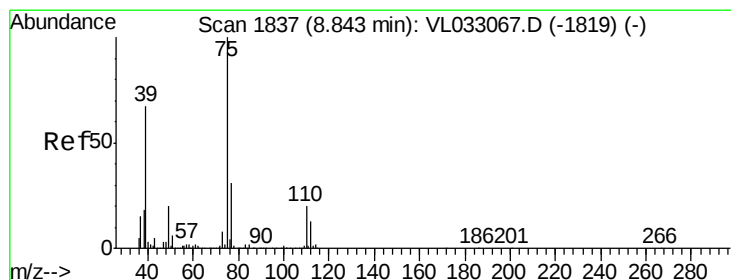
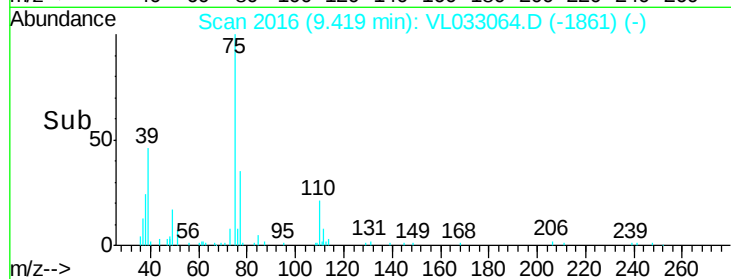
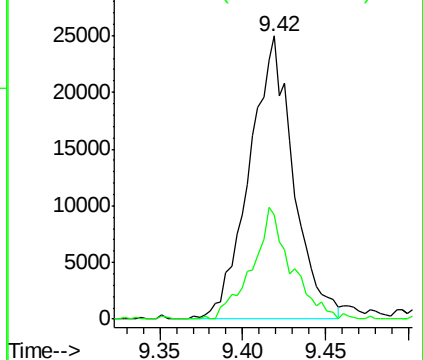
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.381 ppbv m

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

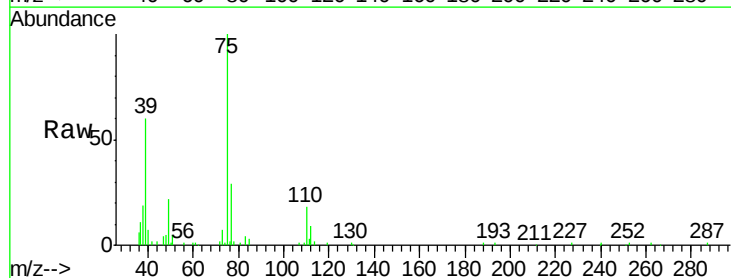
Tgt Ion: 75 Resp: 60182

Ion Ratio Lower Upper

75 100

39 59.7 51.3 76.9

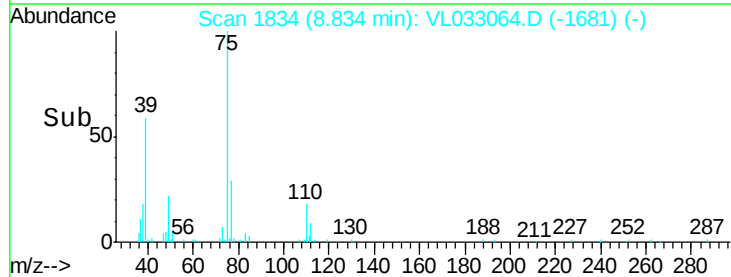
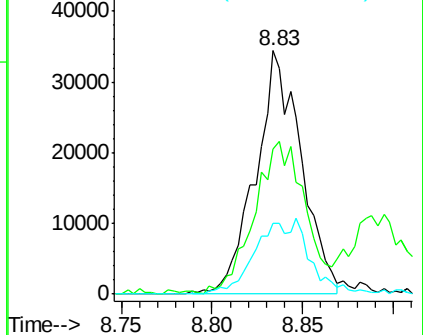
77 29.2 25.5 38.3

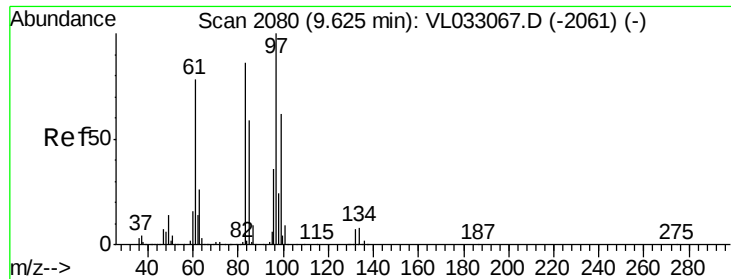


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





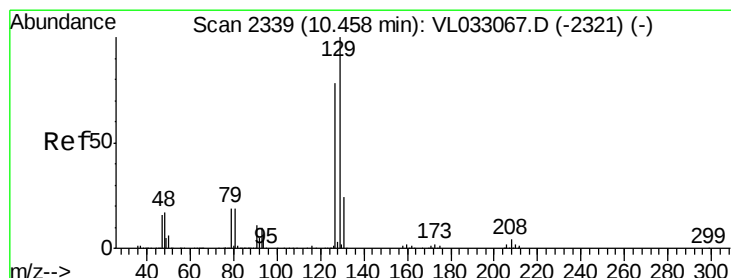
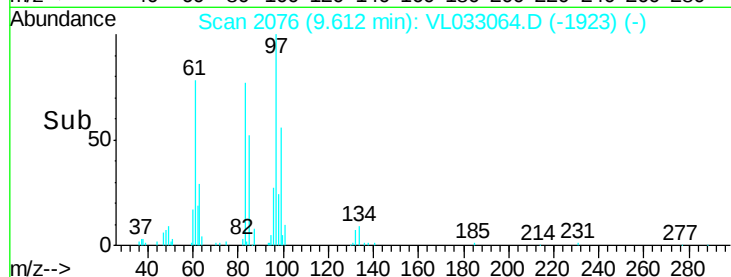
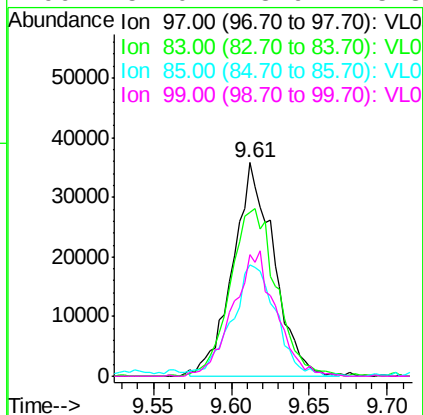
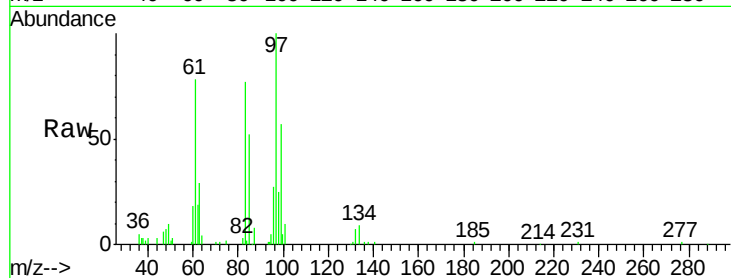
#47
 1,1,2-Trichloroethane
 Concen: 0.513 ppbv m
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
97	100		
83	76.9	69.4	104.2
85	52.2	44.2	66.2
99	57.0	48.9	73.3

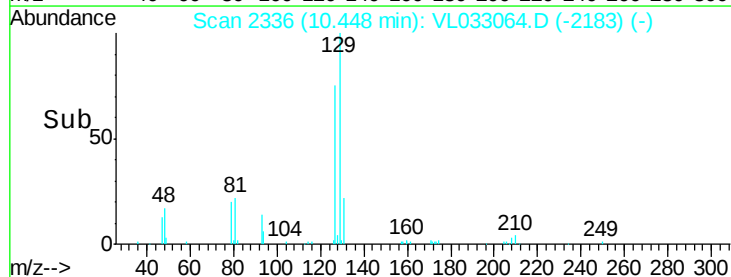
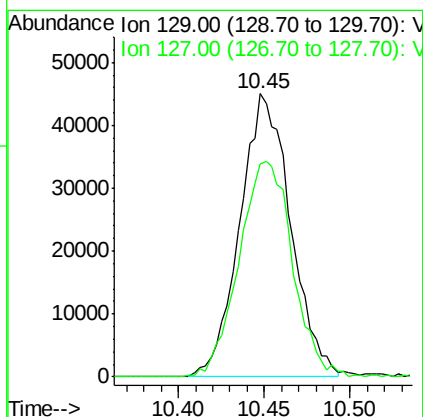
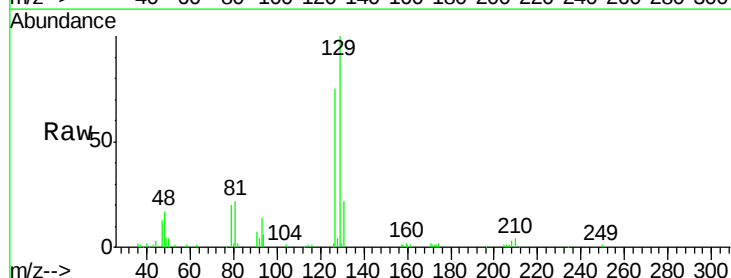
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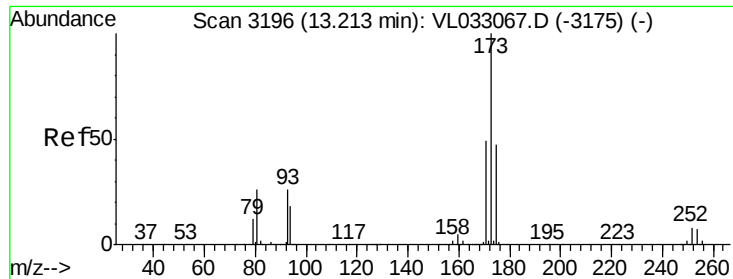
MMDadoda
 1/8/2019 12:01:07 AM



#48
 Dibromochloromethane
 Concen: 0.434 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.2	39.1	117.3





#49

Bromoform

Concen: 0.446 ppbv m

RT: 13.20 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

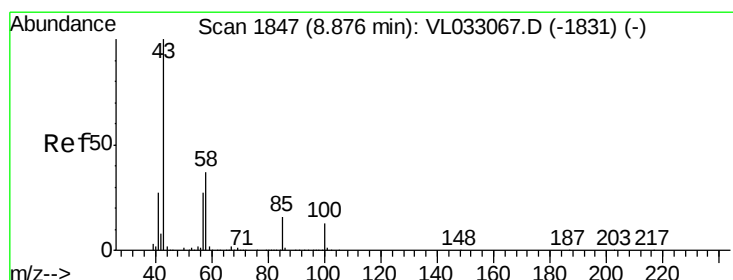
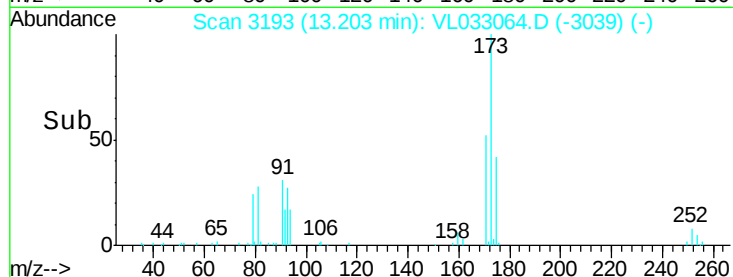
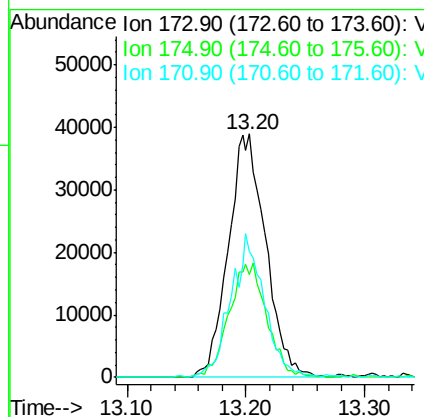
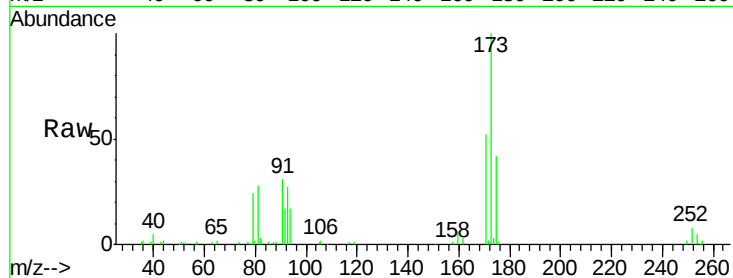
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.4	59.2#
171	0.0	42.1	63.1#

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#50

4-Methyl-2-Pentanone

Concen: 0.436 ppbv

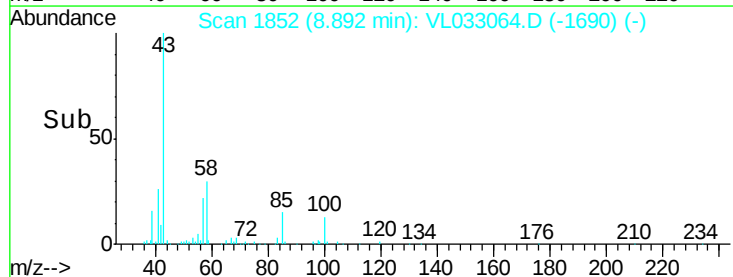
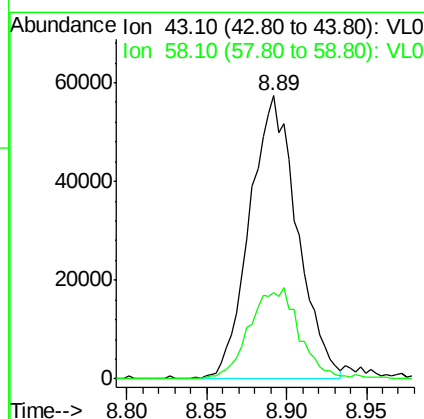
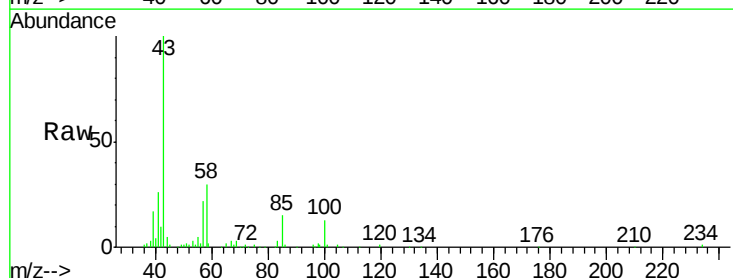
RT: 8.89 min Scan# 1852

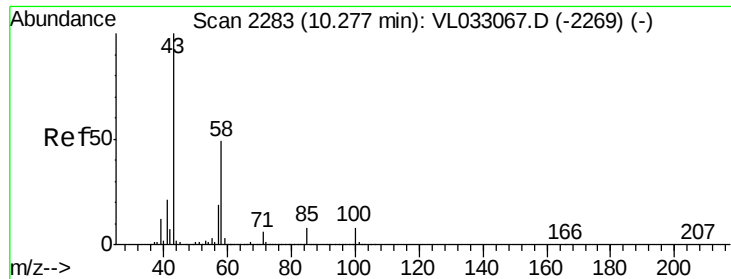
Delta R.T. 0.02 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.0	28.9	43.3





#51

2-Hexanone

Concen: 0.326 ppbv m

RT: 10.30 min Scan# 2290

Delta R.T. 0.02 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

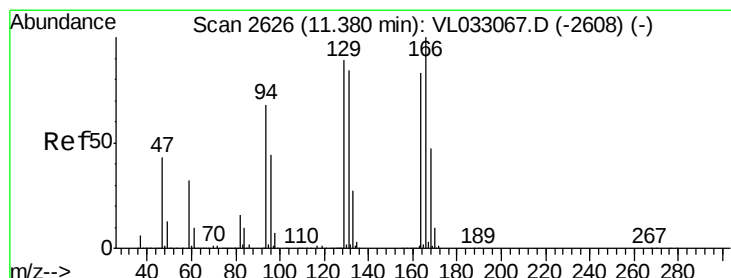
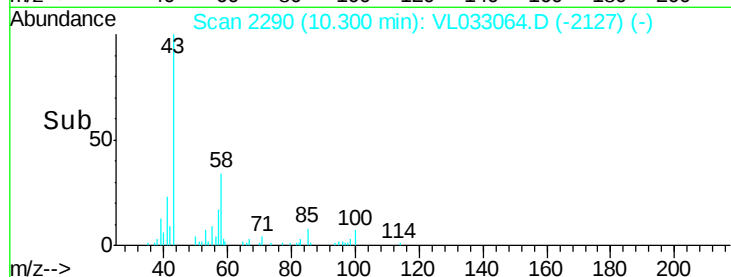
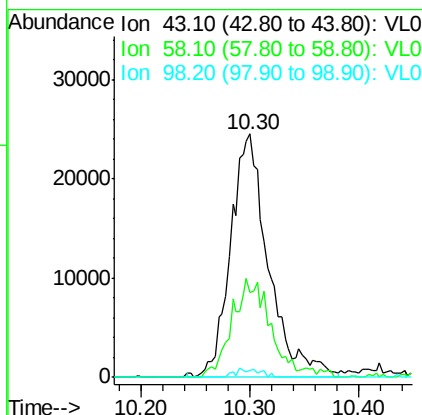
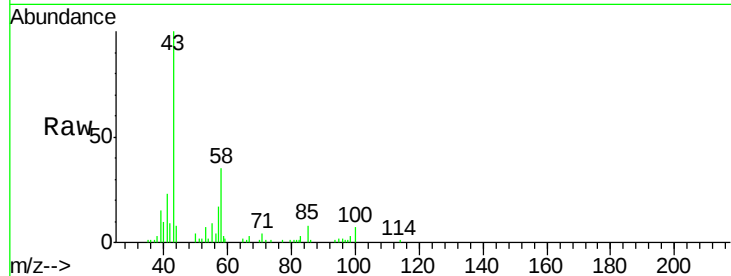
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	59383
Ion Ratio	Lower	Upper	
43	100		
58	0.0	39.0	58.6#
98	0.0	0.4	0.6#

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#52

Tetrachloroethene

Concen: 0.467 ppbv m

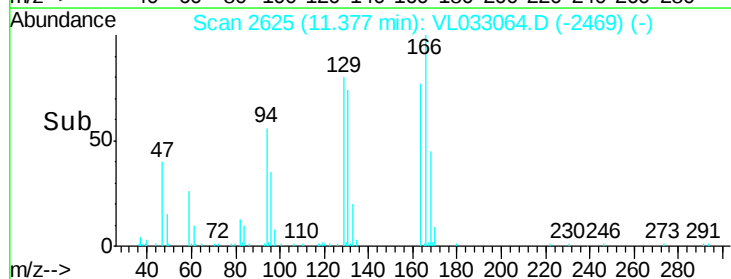
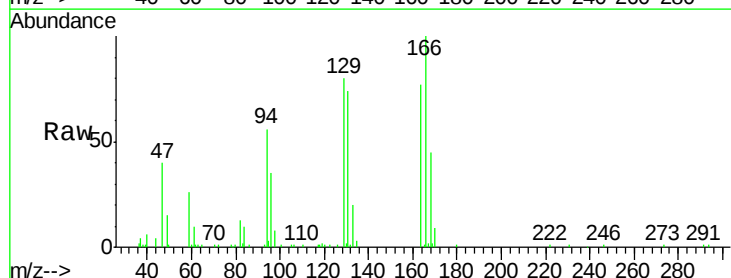
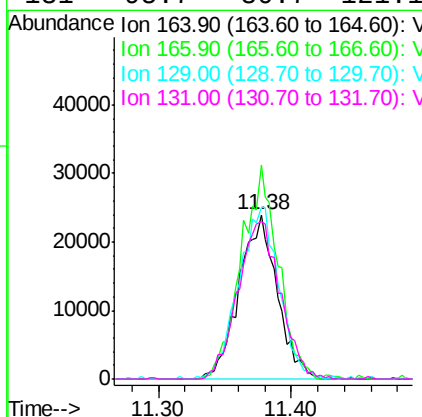
RT: 11.38 min Scan# 2625

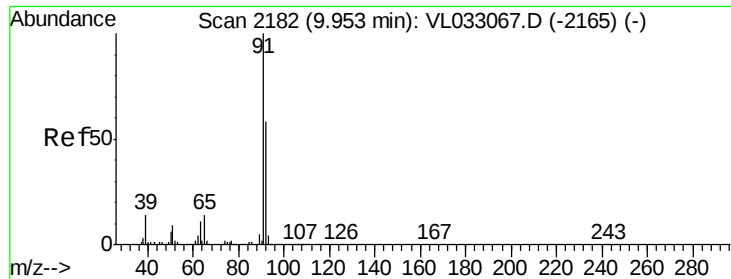
Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Tgt Ion:	164	Resp:	47692
Ion Ratio	Lower	Upper	
164	100		
166	129.9	100.8	151.2
129	104.2	84.6	126.8
131	95.7	80.7	121.1





#53

Toluene

Concen: 0.402 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 116689

Ion Ratio Lower Upper

91 100

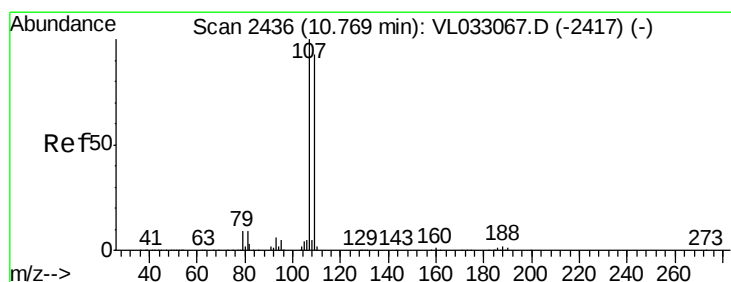
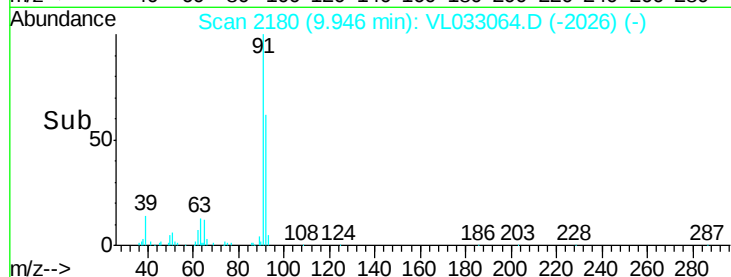
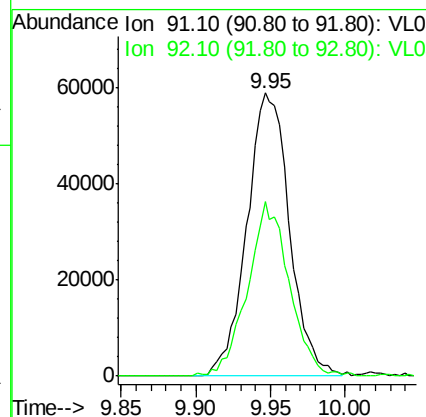
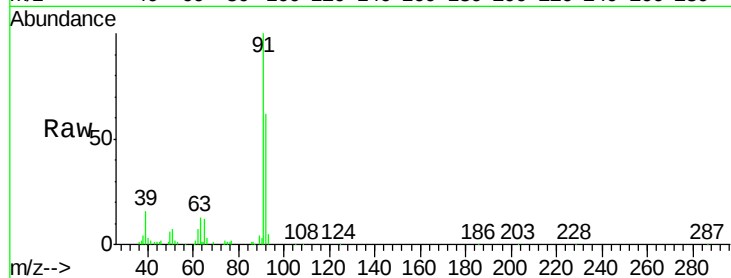
92 60.2 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 0.381 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033064.D

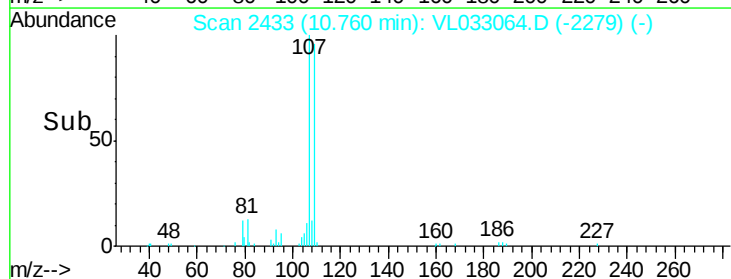
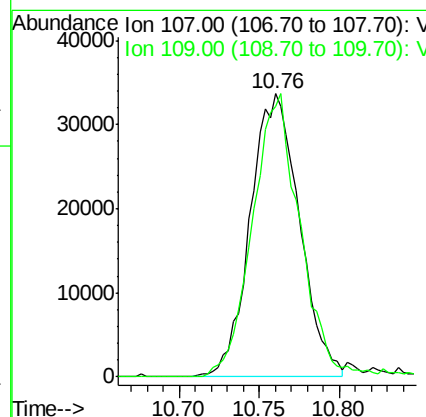
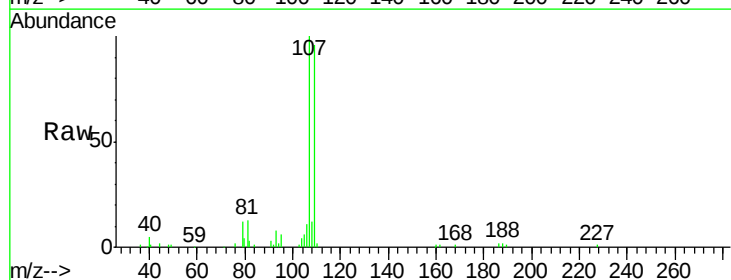
Acq: 4 Jan 2019 11:20

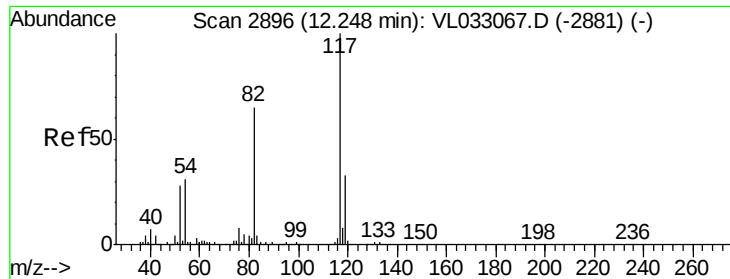
Tgt Ion: 107 Resp: 70833

Ion Ratio Lower Upper

107 100

109 95.7 74.9 112.3





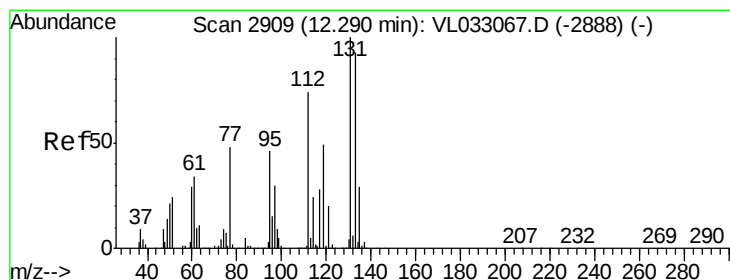
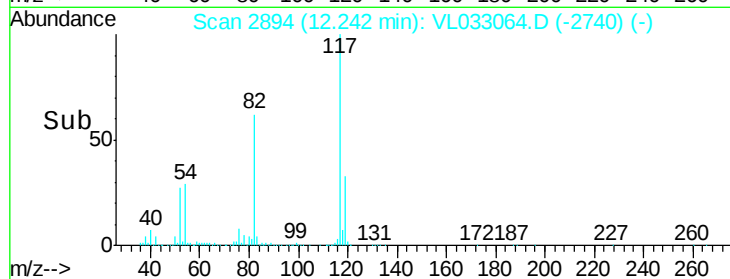
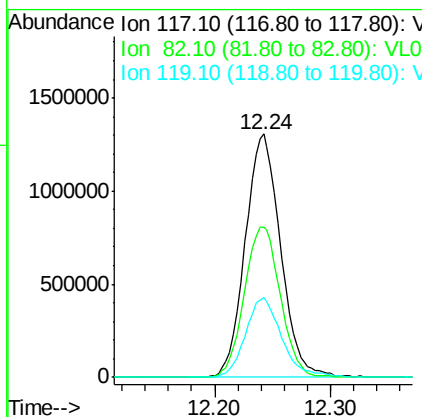
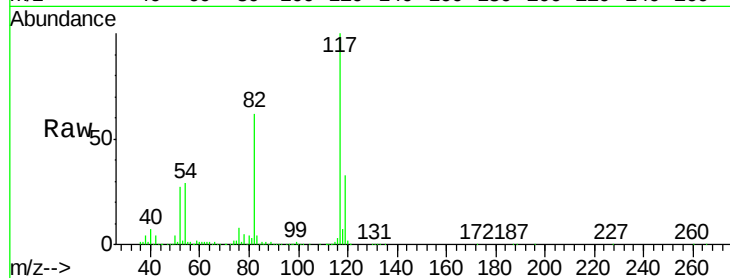
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.4	48.9	73.3
119	33.8	24.6	37.0

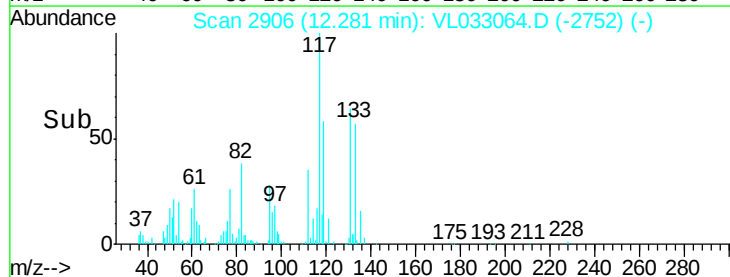
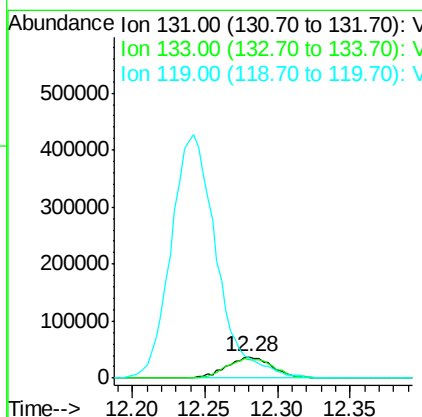
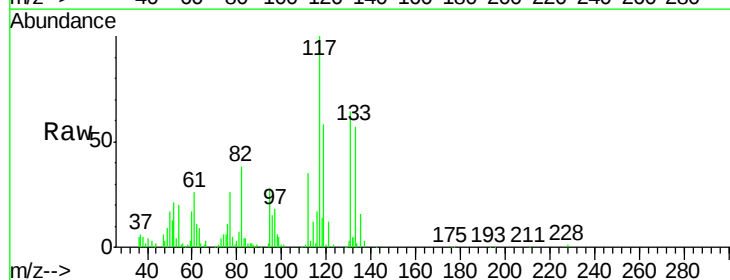
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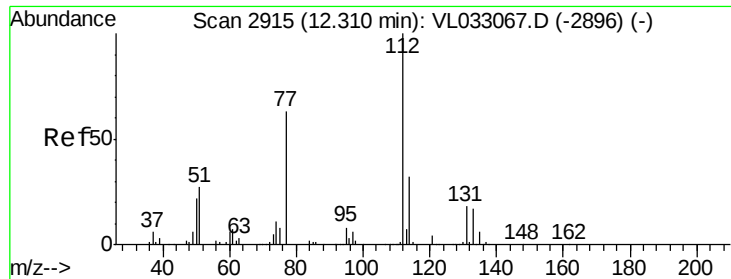
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.573 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.4	76.0	114.0
119	1164.4	44.2	66.2#





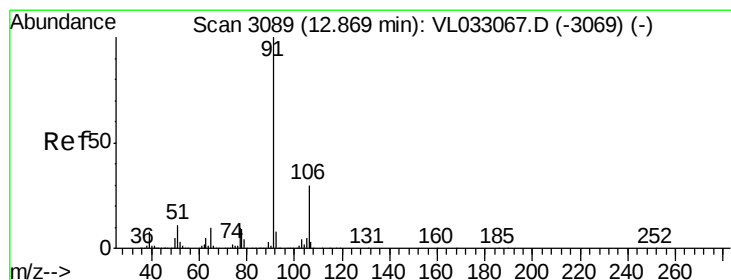
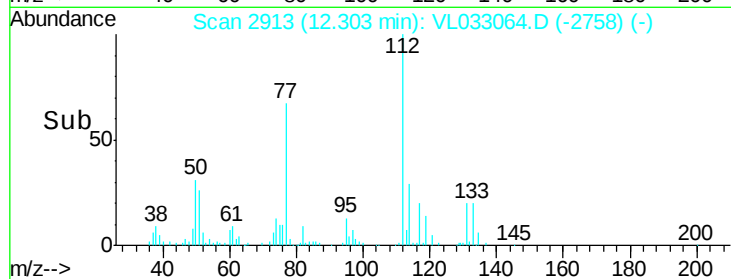
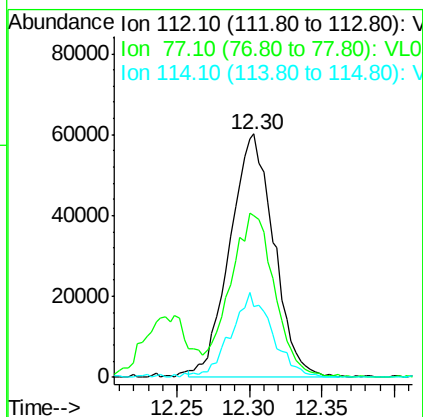
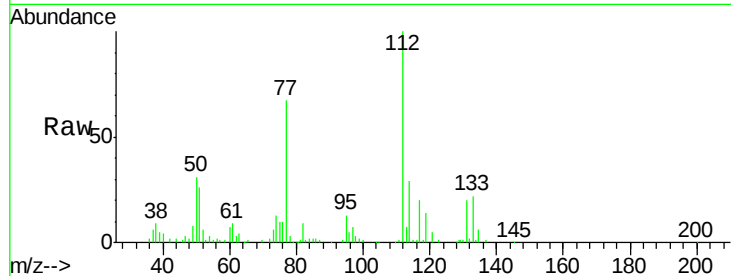
#57
Chlorobenzene
Concen: 0.558 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	65.3	53.4	80.0
114	28.6	30.0	36.6

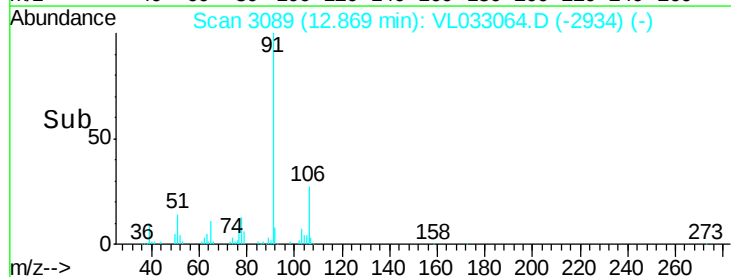
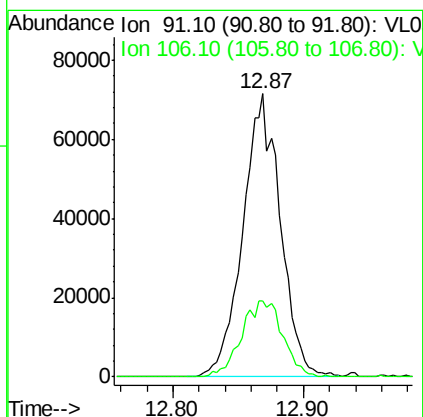
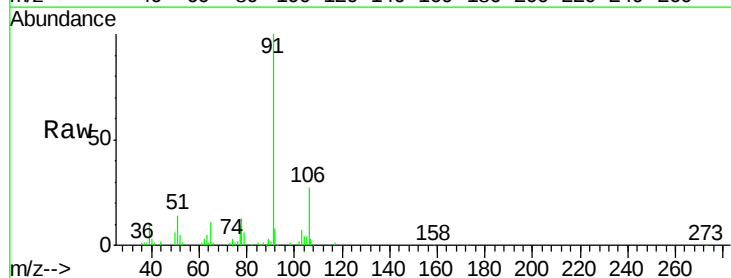
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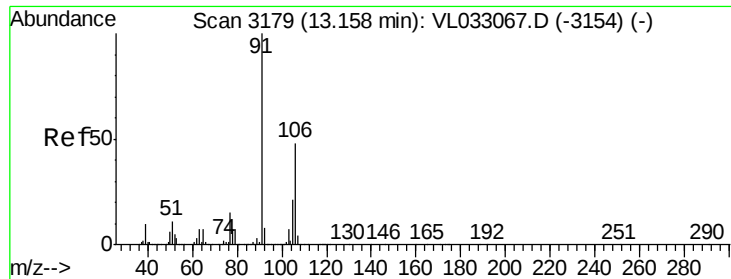
MMDadoda
1/8/2019 12:01:07 AM



#58
Ethyl Benzene
Concen: 0.418 ppbv m
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.0	24.3	36.5





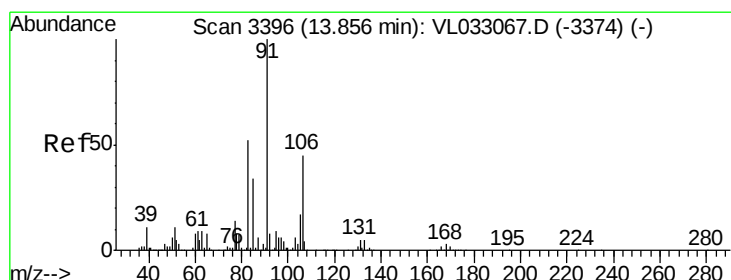
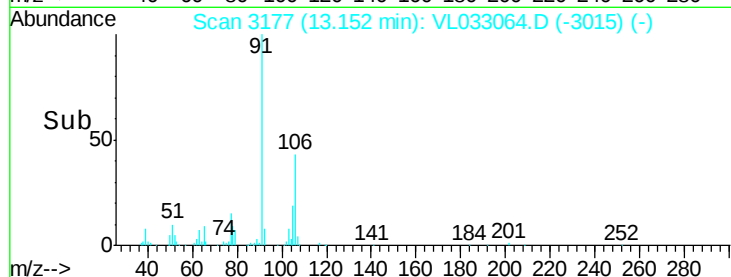
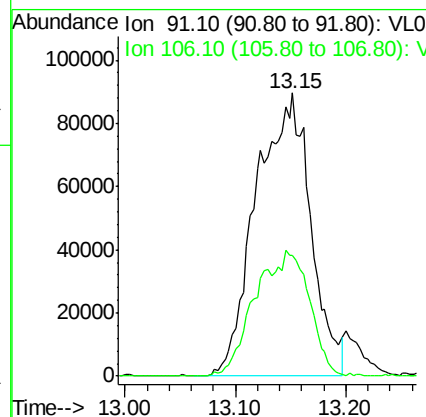
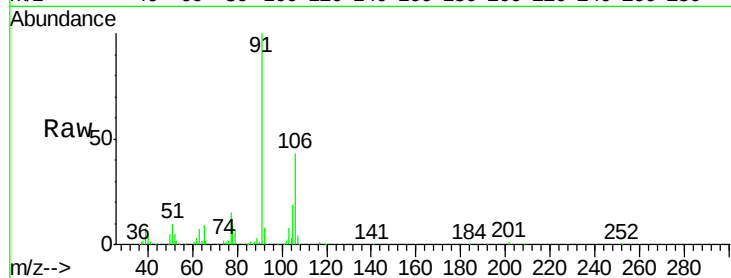
#59
m/p-Xylene
Concen: 0.967 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
106	0.0	0.0	0.0	

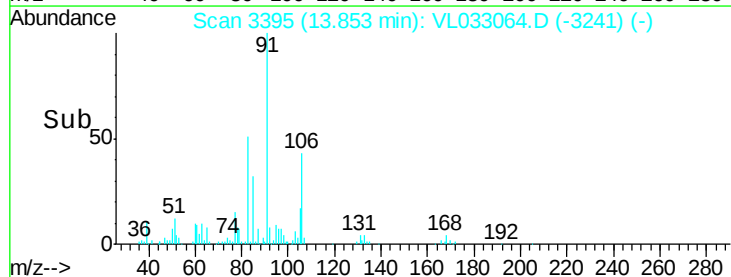
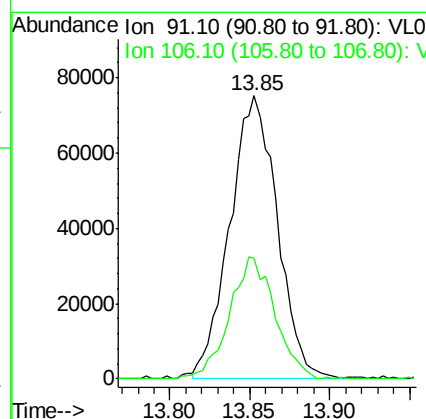
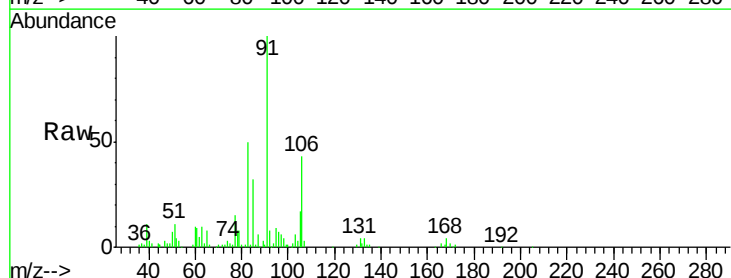
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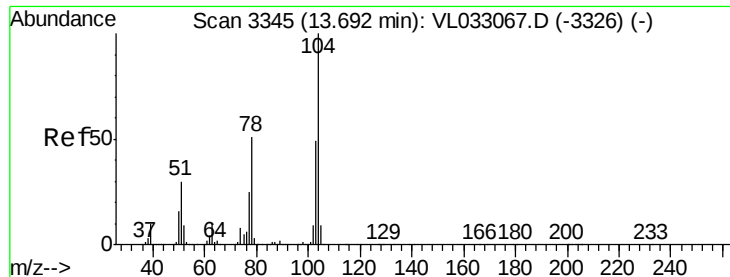
MMDadoda
1/8/2019 12:01:07 AM



#60
o-Xylene
Concen: 0.493 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
106	41.3	22.1	66.5	





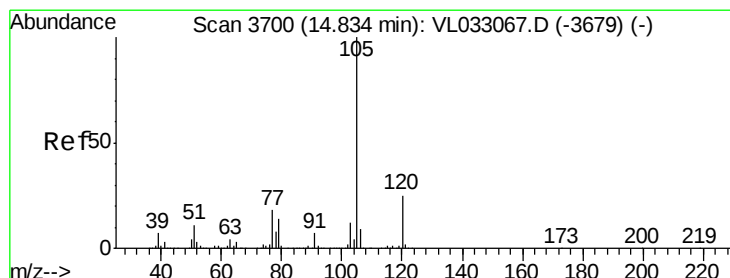
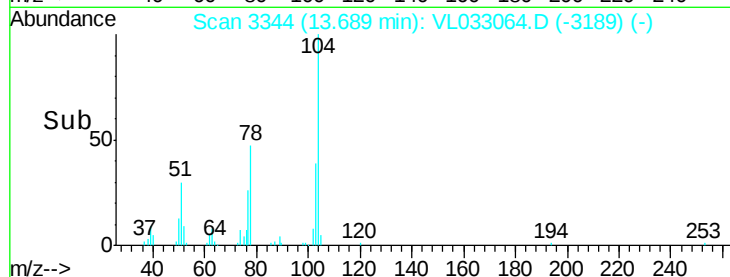
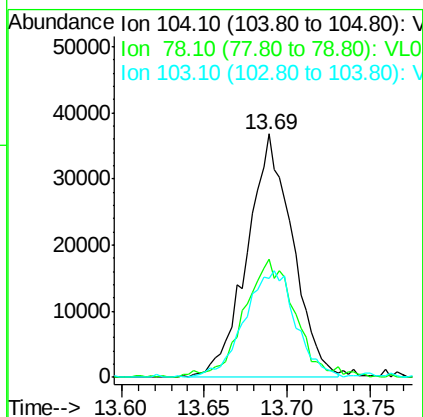
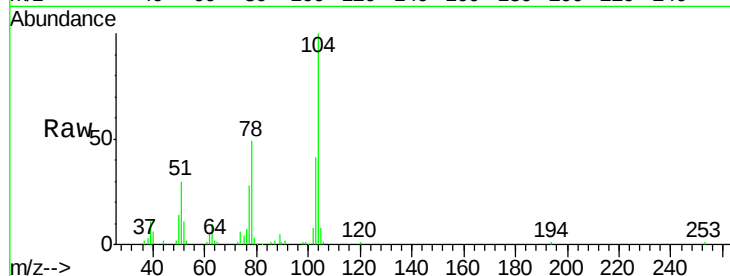
#61
Stvrene
Concen: 0.351 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.3	41.6	62.4
103	49.2	38.1	57.1

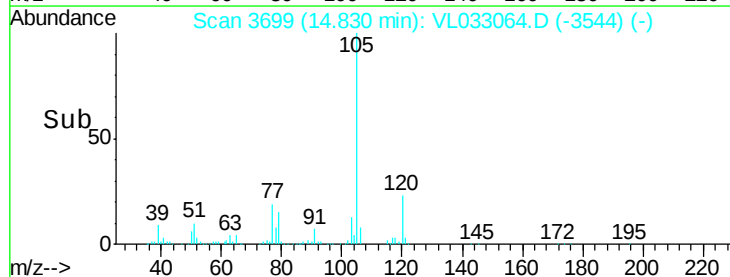
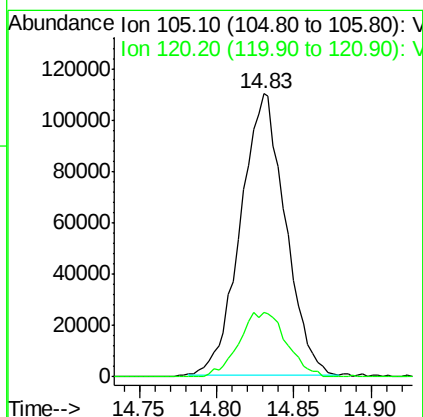
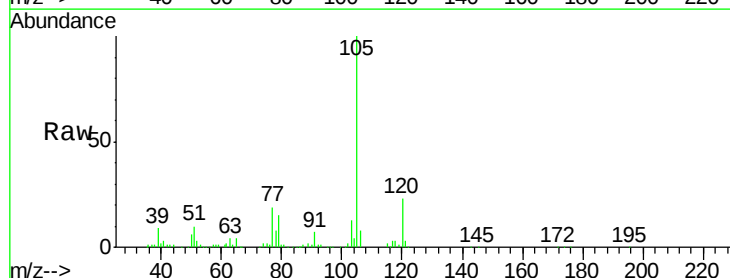
Manual Integrations
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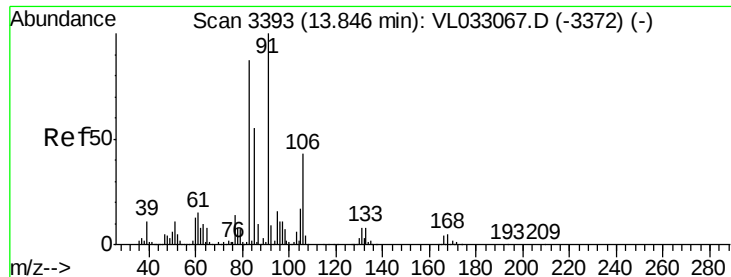
MMDadoda
1/8/2019 12:01:07 AM



#62
Isopropylbenzene
Concen: 0.499 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. -0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.5	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 0.572 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 138772

Ion Ratio Lower Upper

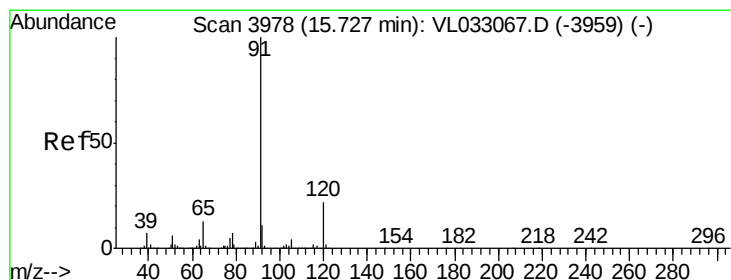
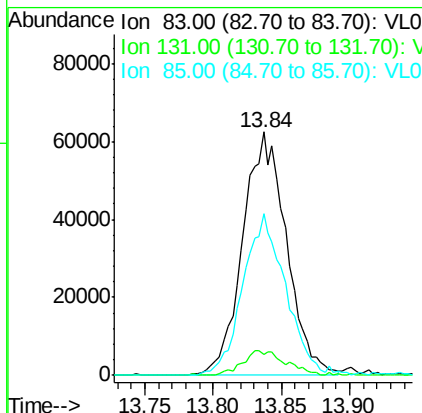
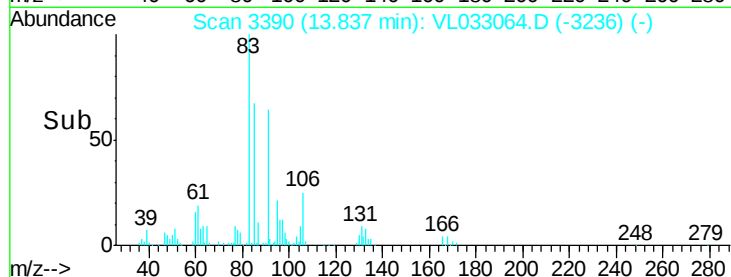
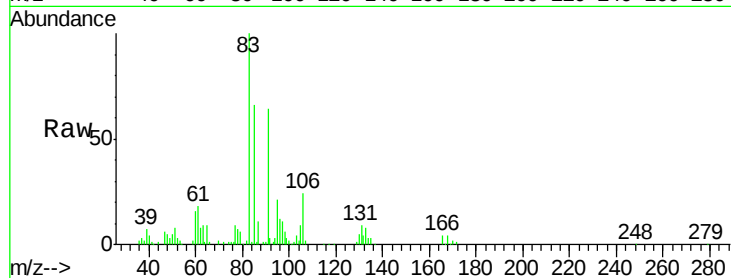
83 100

131 10.4 4.8 14.4

85 65.1 32.6 97.8

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1/8/2019 12:01:07 AM



#64

n-propylbenzene

Concen: 0.510 ppbv m

RT: 15.73 min Scan# 3979

Delta R.T. 0.00 min

Lab File: VL033064.D

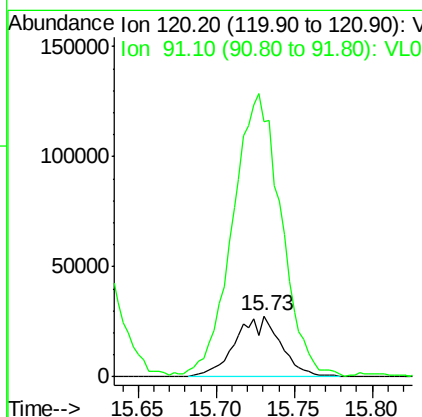
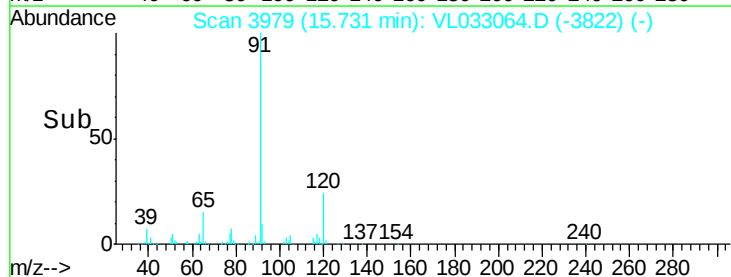
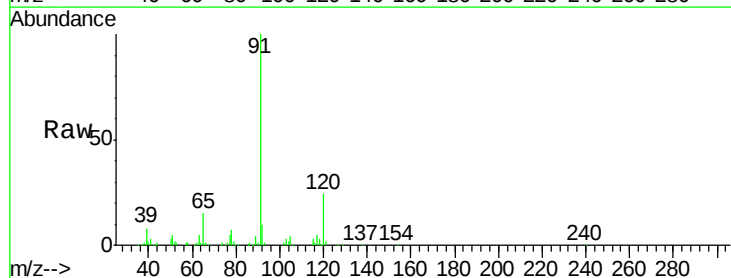
Acq: 4 Jan 2019 11:20

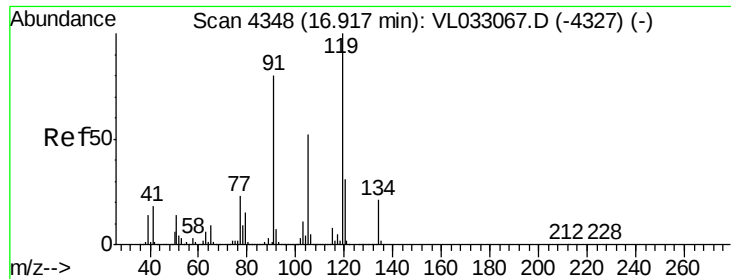
Tgt Ion: 120 Resp: 55663

Ion Ratio Lower Upper

120 100

91 254.7 378.7 568.1#





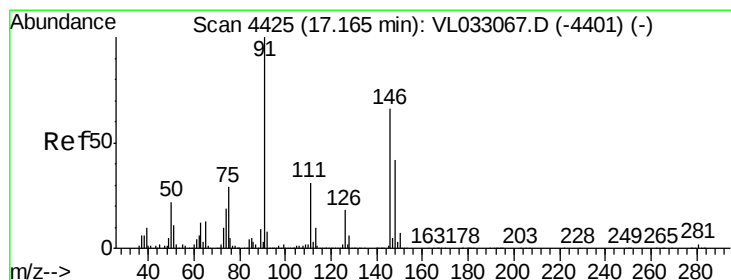
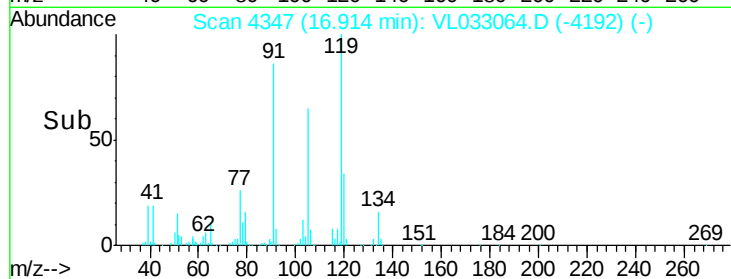
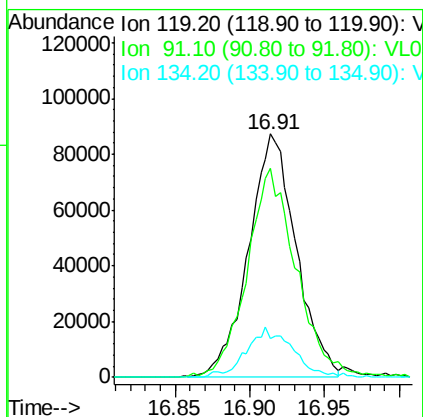
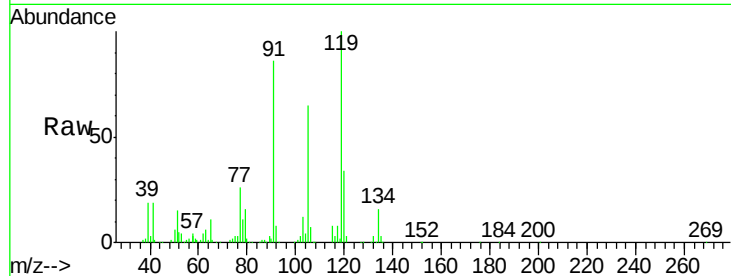
#65
tert-Butylbenzene
Concen: 0.487 ppbv
RT: 16.91 min Scan# 4347
Delta R.T. -0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp Lower	Upper
119	100		
91	90.1	64.6	97.0
134	20.3	15.8	23.8

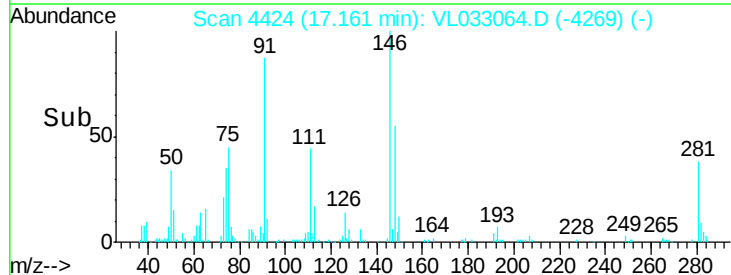
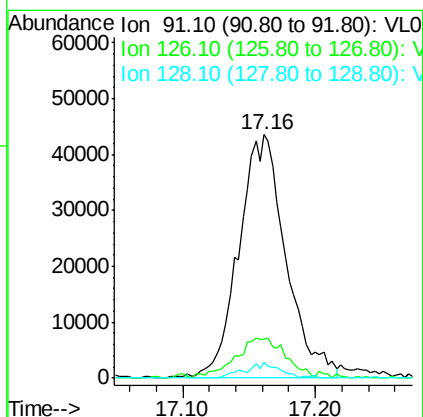
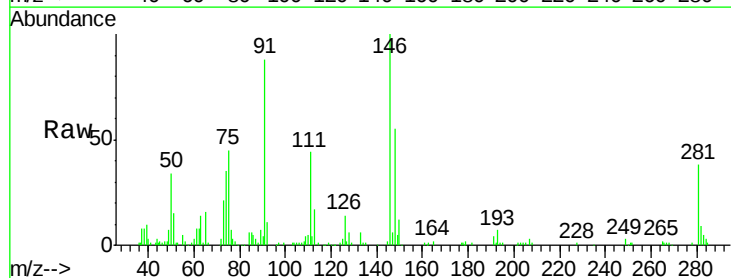
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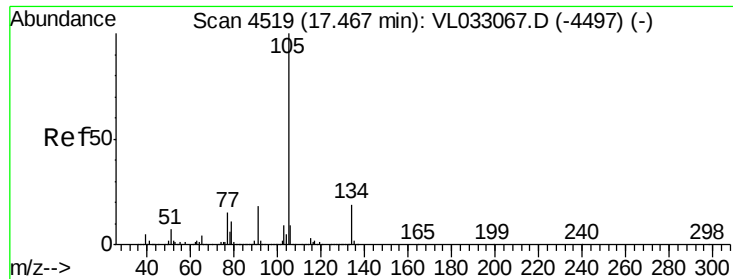
MMDadoda
1/8/2019 12:01:07 AM



#66
Benzyl Chloride
Concen: 0.487 ppbv m
RT: 17.16 min Scan# 4424
Delta R.T. -0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
126	18.9	14.4	21.6
128	0.0	4.5	6.7#





#67

sec-Butylbenzene

Concen: 0.510 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 283432

Ion Ratio Lower Upper

105 100

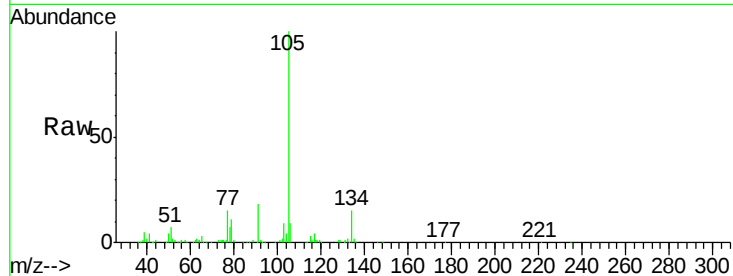
134 17.2 14.6 21.8

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

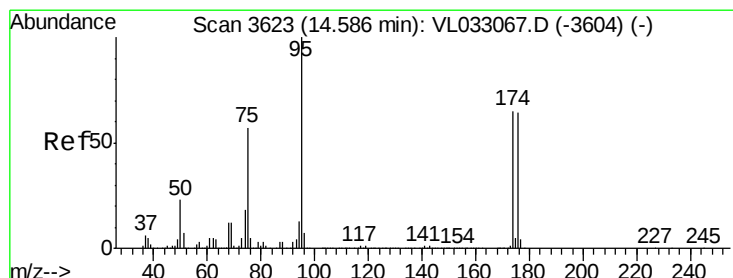
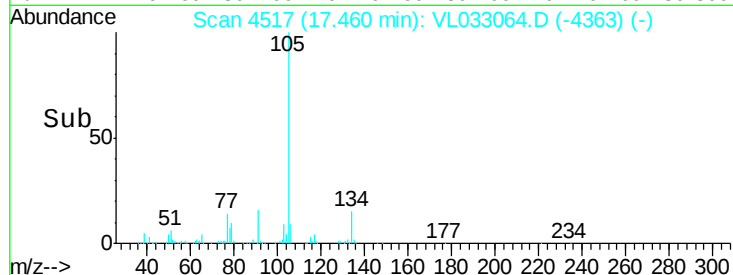
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.816 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

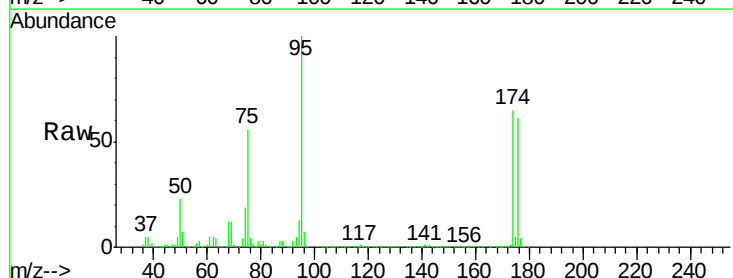
Tgt Ion: 95 Resp: 2238700

Ion Ratio Lower Upper

95 100

174 64.7 51.9 77.9

175 4.7 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

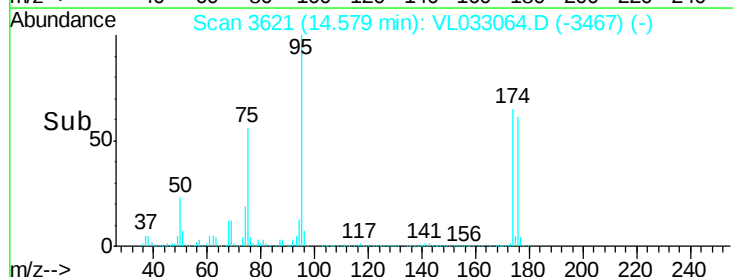
14.58

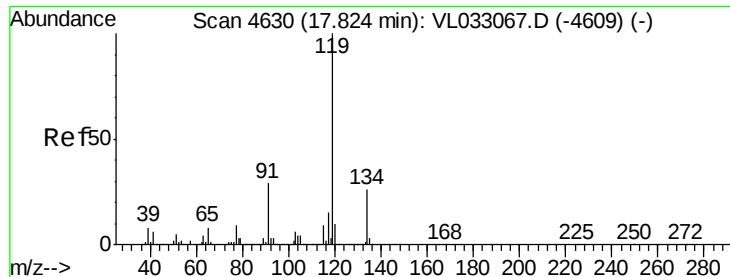
1000000

500000

0

Time-->





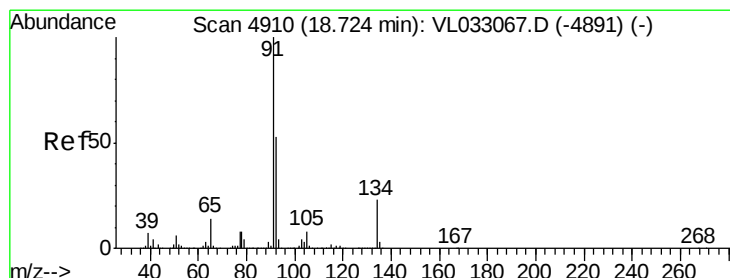
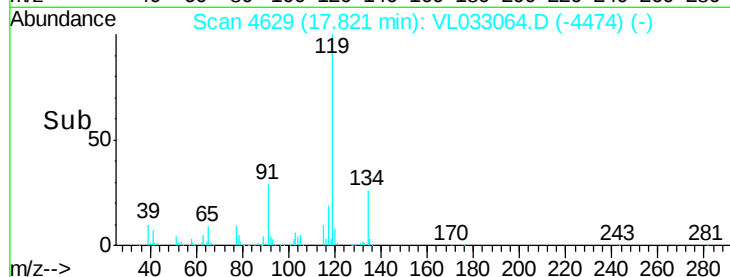
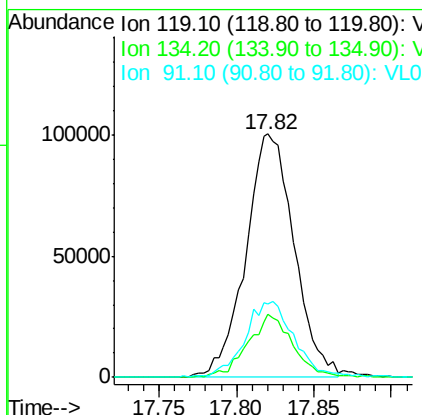
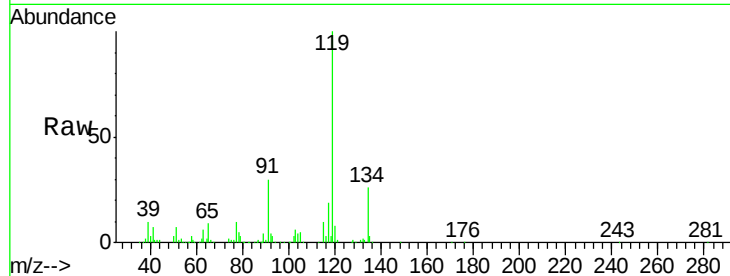
#69
 p-Isopropyltoluene
 Concen: 0.485 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	217897		
134	24.3	20.1	30.1	
91	31.9	23.0	34.4	

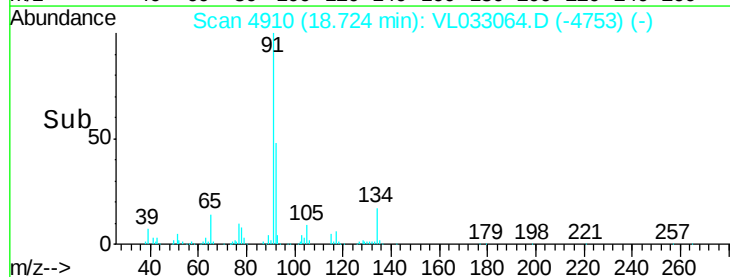
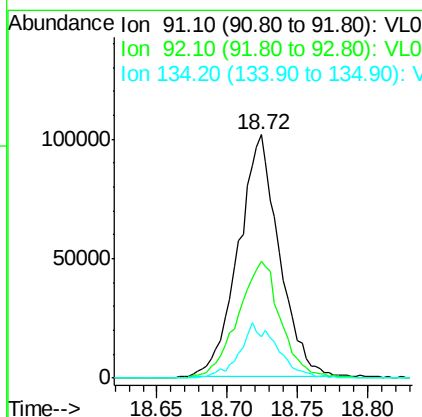
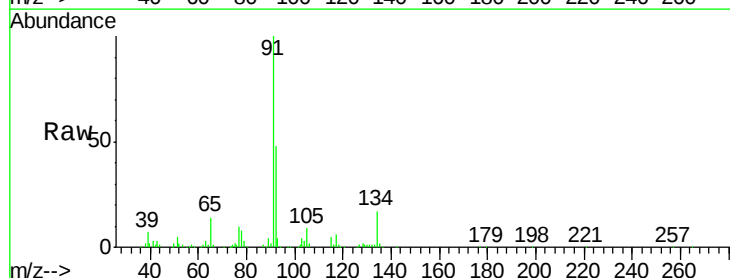
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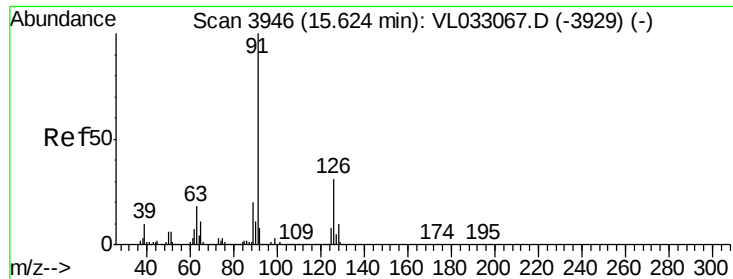
MMDadoda
 1/8/2019 12:01:07 AM



#70
 n-Butylbenzene
 Concen: 0.447 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	204838		
92	51.1	42.4	63.6	
134	21.2	18.0	27.0	





#71

2-Chlorotoluene

Concen: 0.446 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 139808

Ion Ratio Lower Upper

91 100

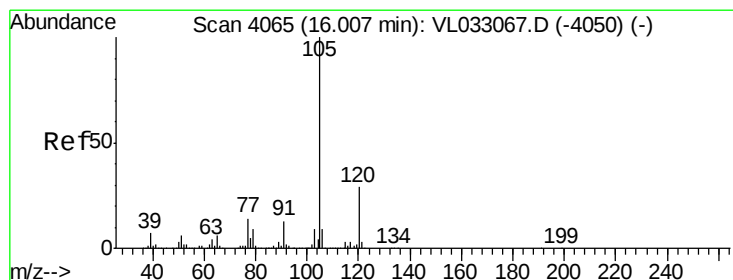
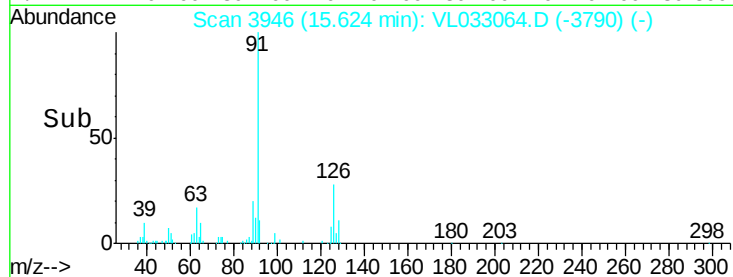
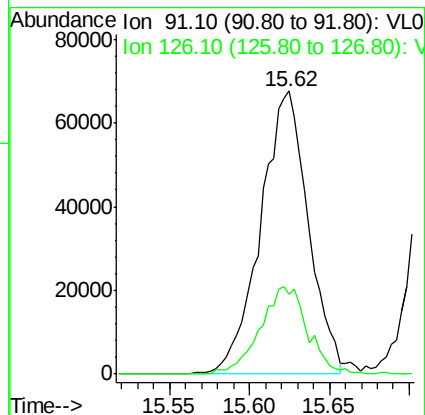
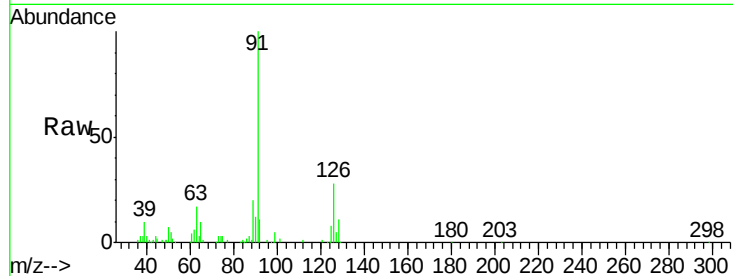
126 30.8 12.4 49.6

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#72

4-Ethyltoluene

Concen: 0.433 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Tgt Ion: 105 Resp: 149446

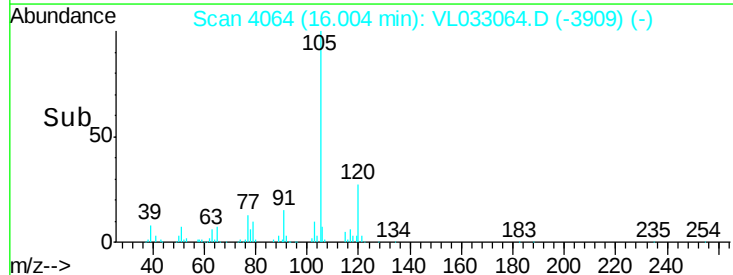
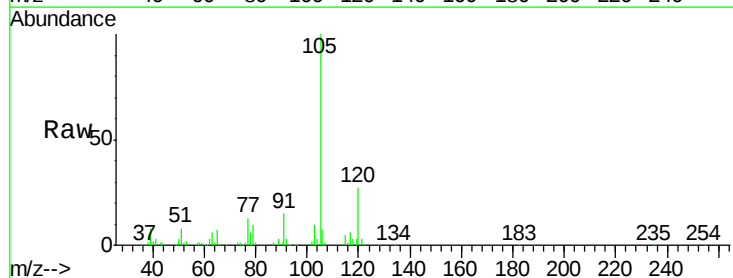
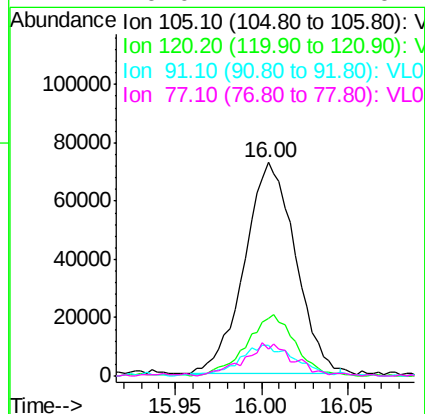
Ion Ratio Lower Upper

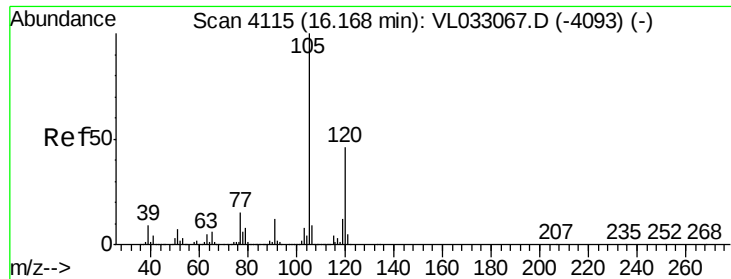
105 100

120 28.2 23.0 34.6

91 16.6 10.3 15.5#

77 16.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.470 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 158530

Ion Ratio Lower Upper

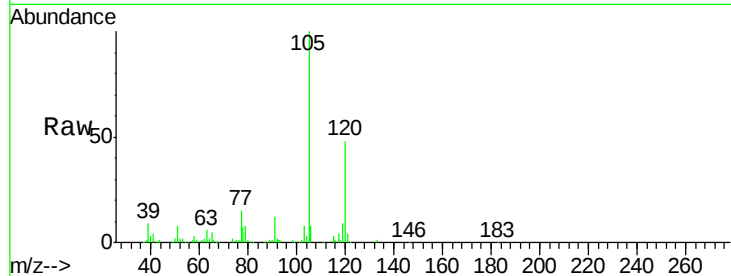
105 100

120 48.0 36.1 54.1

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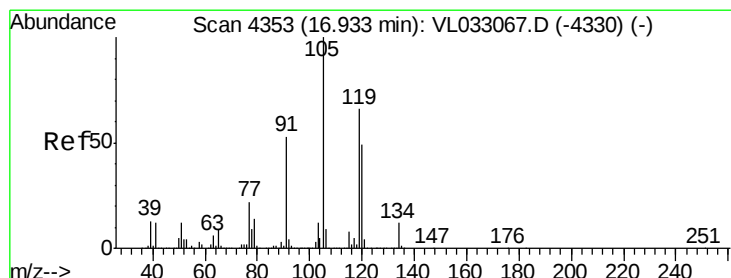
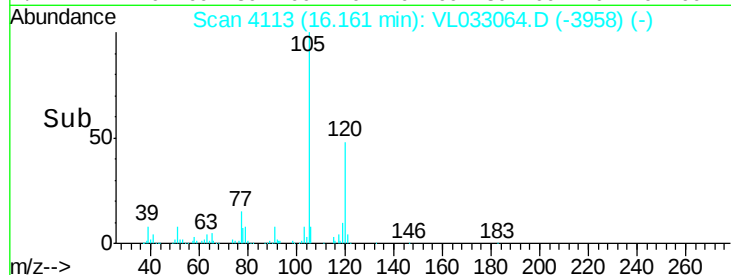
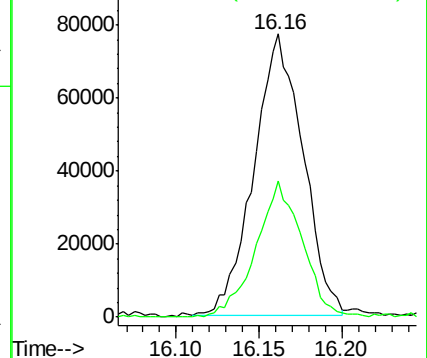
MMDadoda

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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: 0.537 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL033064.D

Acq: 4 Jan 2019 11:20

Tgt Ion:105 Resp: 198968

Ion Ratio Lower Upper

105 100

120 50.2 37.0 55.4

91 49.9 35.4 53.0

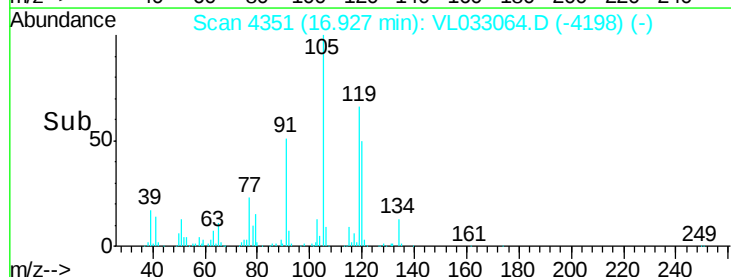
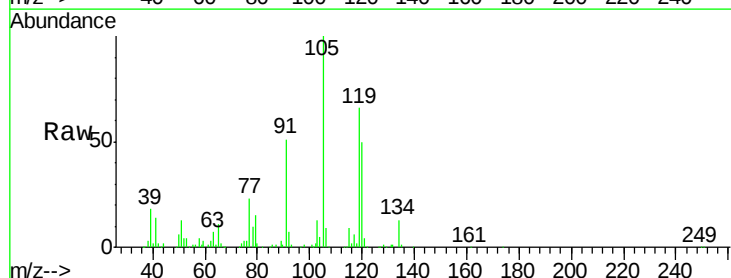
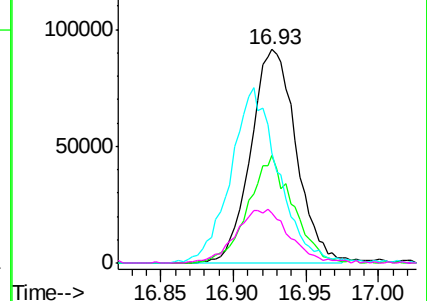
77 22.1 17.1 25.7

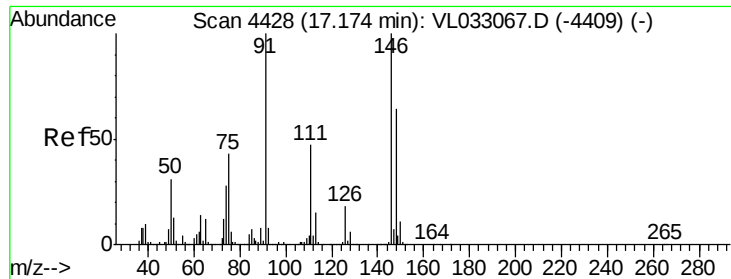
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





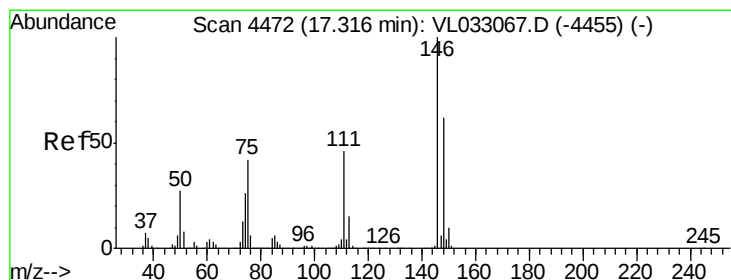
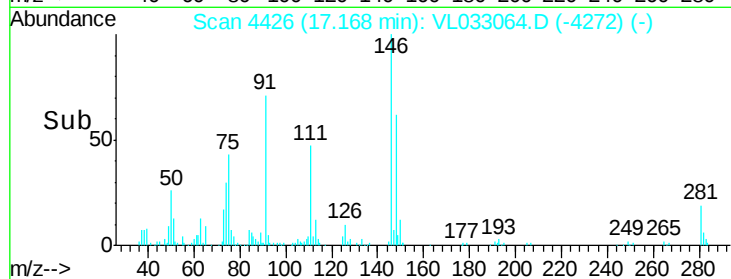
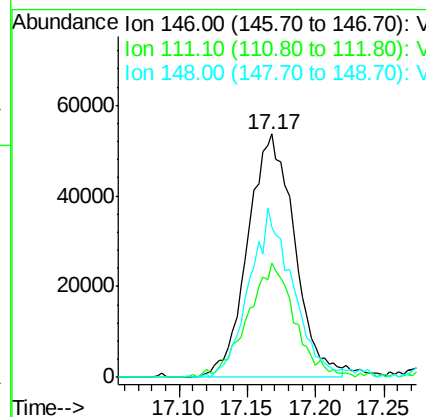
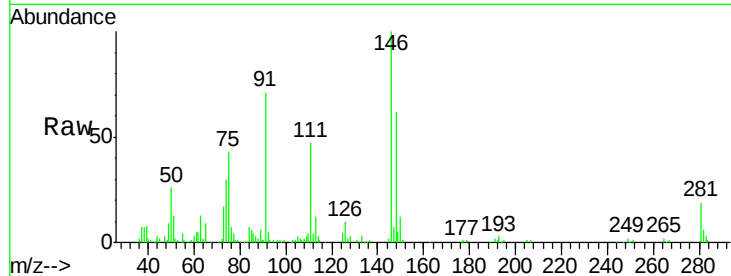
#75
 1,3-Dichlorobenzene
 Concen: 0.588 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.4	70.2
148	66.2	32.1	96.3

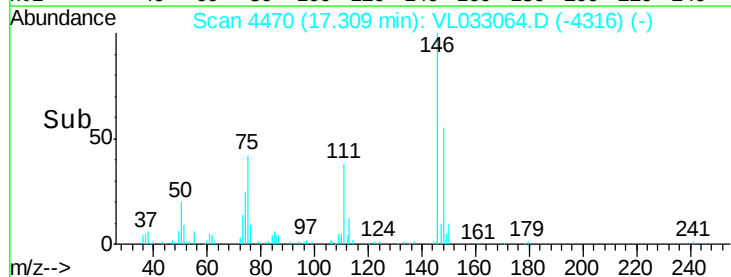
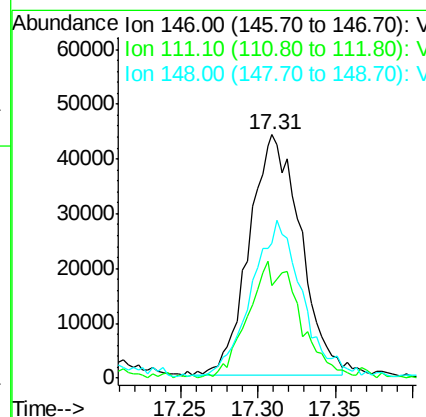
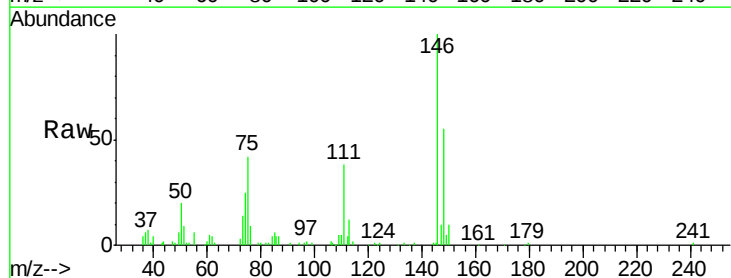
Manual Integrations
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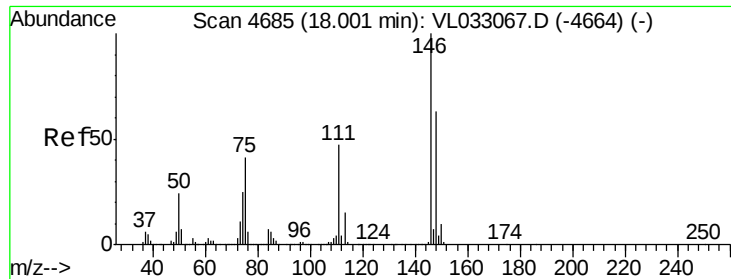
MMDadoda
 1/8/2019 12:01:07 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.513 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.0	22.7	68.1
148	67.3	32.4	97.2





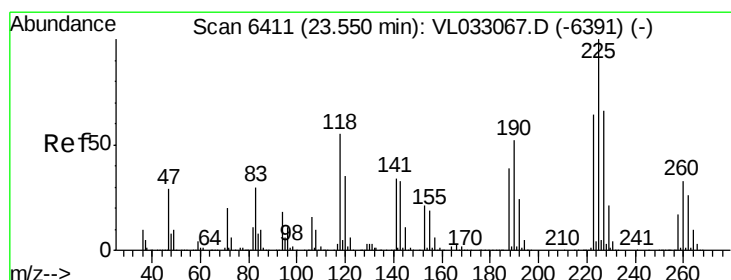
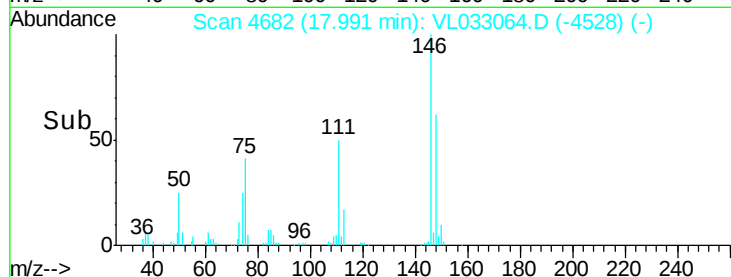
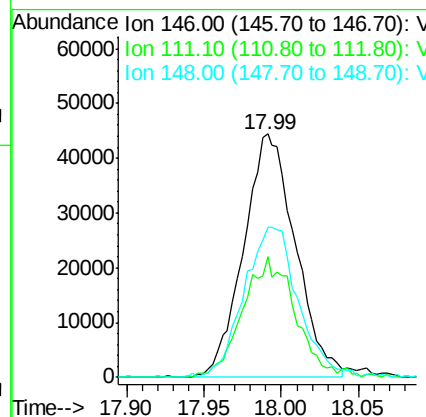
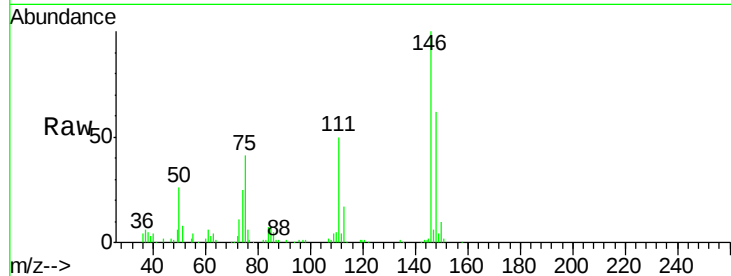
#77
 1,2-Dichlorobenzene
 Concen: 0.521 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.6	24.4	73.2
148	65.5	32.3	96.9

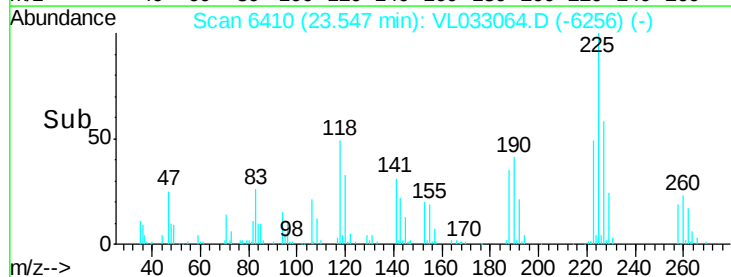
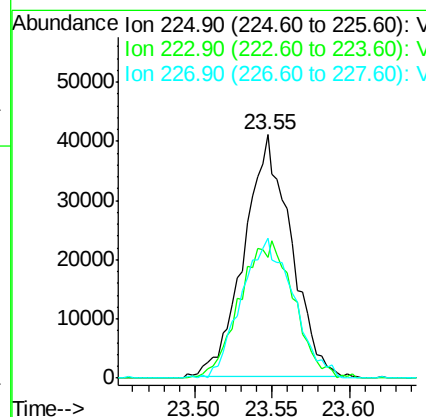
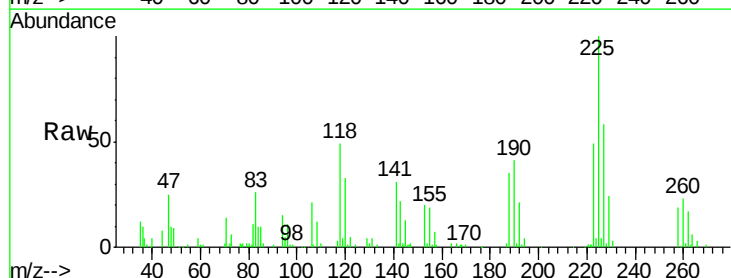
Manual Integrations
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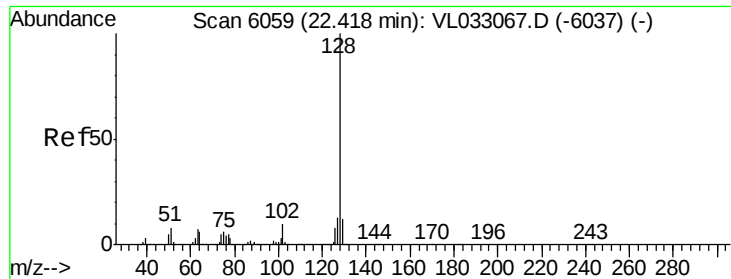
MMDadoda
 1/8/2019 12:01:07 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.616 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.6	51.0	76.6
227	64.2	51.0	76.4





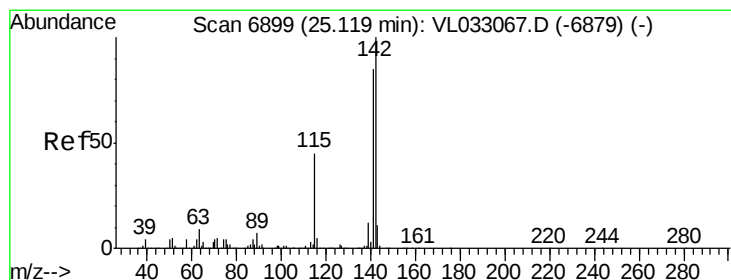
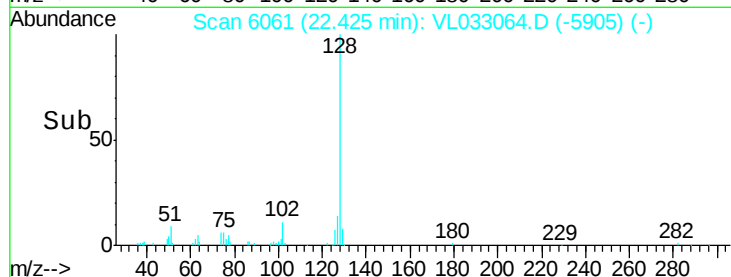
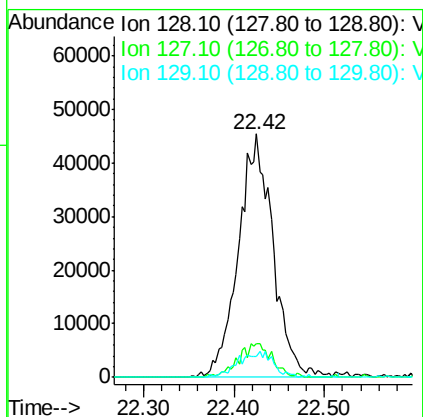
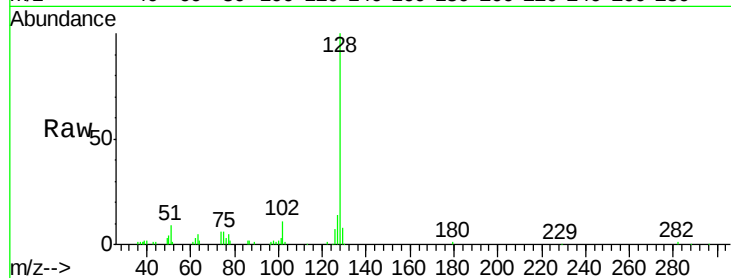
#79
Naphthalene
Concen: 0.359 ppbv m
RT: 22.42 min Scan# 6061
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	11.0	16.6
129	8.5	9.4	14.0#

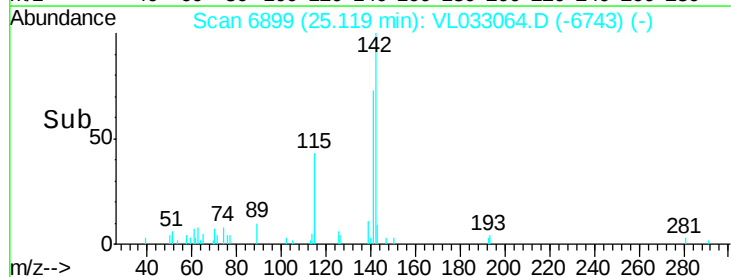
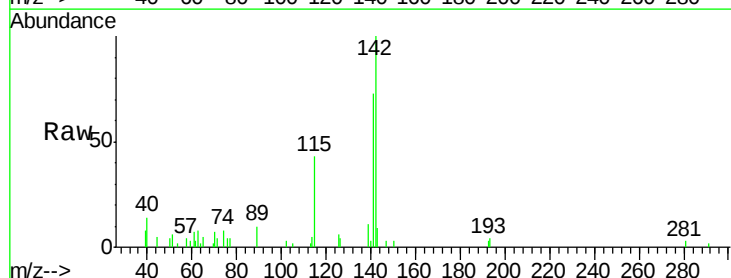
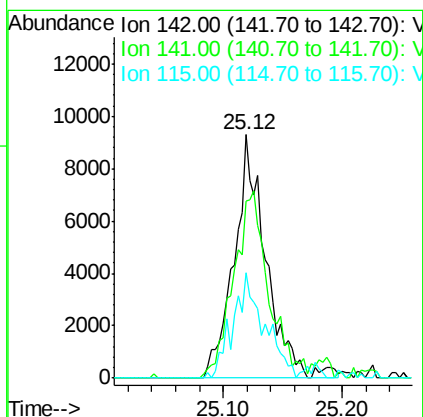
Manual Integrations
APPROVED

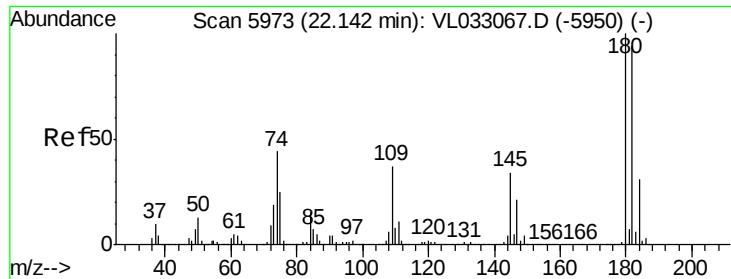
MMDadoda
1/8/2019 12:01:07 AM



#80
Naphthalene, 2-methyl-
Concen: 0.185 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL033064.D
Acq: 4 Jan 2019 11:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.8	68.6	103.0
115	46.3	35.6	53.4





#81
 1,2,4-Trichlorobenzene
 Concen: 0.420 ppbv m
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL033064.D
 Acq: 4 Jan 2019 11:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	0.0	76.1	114.1#
184	0.0	24.6	37.0#

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:07 AM

