

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033063.D
 Acq On : 4 Jan 2019 10:43
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:05 AM

Quant Time: Jan 04 11:58:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu 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	1481864	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3621550	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3415338	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2575794	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	348147	1.054 ppbv	99
3) Chlorodifluoromethane	3.01	51	199931	1.109 ppbv	97
4) Chloromethane	3.17	50	111839	1.067 ppbv	100
5) Vinyl Chloride	3.29	62	101860	0.915 ppbv	100
6) Bromomethane	3.52	94	74607	1.101 ppbv	94
7) Chloroethane	3.60	64	43526	1.138 ppbv #	88
8) Dichlorotetrafluoroethane	3.22	85	275339	1.046 ppbv	99
9) Propene	3.04	41	73821	1.055 ppbv	97
10) Heptane	8.25	43	183960	1.027 ppbv	99
11) Trichlorofluoromethane	4.00	101	318233	1.095 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	221132	1.126 ppbv	100
13) Ethanol	3.65	45	29465	1.081 ppbv	72
14) Bromoethene	3.79	108	95088	1.136 ppbv	99
15) Acetone	3.91	43	224049	1.156 ppbv	99
16) 1,3-Butadiene	3.36	39	83603	0.990 ppbv	96
17) tert-Butyl alcohol	4.37	59	51270m	1.184 ppbv	
18) 1,1-Dichloroethene	4.35	96	97662	1.109 ppbv	96
19) Isopropyl Alcohol	4.03	45	157256	1.215 ppbv #	95
20) Methylene Chloride	4.41	84	105301	1.228 ppbv	95
21) Allyl Chloride	4.48	41	145922	1.107 ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	95970	1.116 ppbv	98
23) Vinyl Acetate	5.15	43	282743	1.056 ppbv #	97
24) 1,1-Dichloroethane	5.09	63	245369	1.104 ppbv	99
25) Ethyl Acetate	5.77	43	371833	1.071 ppbv	99
26) Hexane	5.78	57	179504	1.091 ppbv	97
27) Carbon Disulfide	4.62	76	222302	1.081 ppbv #	92
28) Methyl tert-Butyl Ether	5.12	73	273933	1.063 ppbv	98
29) Chloroform	5.84	83	300058	1.100 ppbv	98
30) Cyclohexane	7.25	84	125903	1.019 ppbv	92
31) cis-1,2-Dichloroethene	5.64	61	161537	1.060 ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	301623	1.048 ppbv	99
34) 2-Butanone	5.34	43	224686	1.063 ppbv	98
35) Carbon Tetrachloride	7.13	117	329924	1.055 ppbv	99
36) Benzene	7.00	78	317438	1.065 ppbv	98
37) 1,2-Dichloroethane	6.41	62	225591	1.113 ppbv	99
38) Trichloroethene	7.96	130	126671	1.018 ppbv	91
39) 1,2-Dichloropropane	7.74	63	119629	1.070 ppbv	96
40) 1,4-Dioxane	7.98	88	47416m	1.118 ppbv	
41) Tetrahydrofuran	6.16	42	110351	1.023 ppbv	98
42) Bromodichloromethane	7.91	83	301750	1.035 ppbv	94
43) Methyl Methacrylate	8.14	69	114126	1.027 ppbv	96

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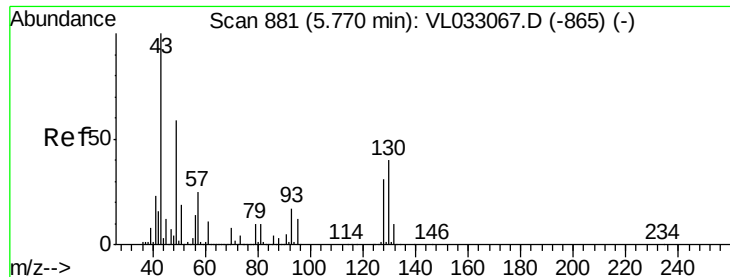
Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:05 AM

Quant Time: Jan 04 11:58:28 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	547678	1.038	ppbv	98
45) t-1,3-Dichloropropene	9.42	75	129318	0.842	ppbv	94
46) cis-1,3-Dichloropropene	8.83	75	157372	0.943	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	138683	1.028	ppbv	95
48) Dibromochloromethane	10.45	129	254280	1.136	ppbv	100
49) Bromoform	13.20	173	213049	1.033	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	301161	1.059	ppbv	98
51) 2-Hexanone	10.29	43	204860m	1.067	ppbv	
52) Tetrachloroethene	11.37	164	114853m	1.065	ppbv	
53) Toluene	9.94	91	325956	1.063	ppbv	100
54) 1,2-Dibromoethane	10.76	107	203143	1.036	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.28	131	194048	1.123	ppbv #	1
57) Chlorobenzene	12.30	112	315799	1.140	ppbv	99
58) Ethyl Benzene	12.87	91	441623	1.051	ppbv	100
59) m/p-Xylene	13.15	91	863828m	2.214	ppbv	
60) o-Xylene	13.85	91	418613	1.097	ppbv	97
61) Styrene	13.69	104	242853	0.987	ppbv	98
62) Isopropylbenzene	14.83	105	601064	1.103	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.84	83	331228m	1.109	ppbv	
64) n-propylbenzene	15.72	120	148828	1.108	ppbv	91
65) tert-Butylbenzene	16.91	119	522251	1.077	ppbv	94
66) Benzyl Chloride	17.15	91	272132	0.998	ppbv	99
67) sec-Butylbenzene	17.46	105	751053	1.098	ppbv	99
69) p-Isopropyltoluene	17.82	119	607099	1.098	ppbv	97
70) n-Butylbenzene	18.71	91	634146m	1.123	ppbv	
71) 2-Chlorotoluene	15.62	91	410513	1.064	ppbv	97
72) 4-Ethyltoluene	16.00	105	449019	1.057	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	450158	1.085	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	508985	1.117	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	304364	1.141	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	268944m	1.108	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	266974	1.093	ppbv	98
78) Hexachloro-1,3-Butadiene	23.55	225	193296	1.126	ppbv	98
79) Naphthalene	22.42	128	402991	0.973	ppbv	98
80) Naphthalene, 2-methyl-	25.13	142	84389	0.735	ppbv	95
81) 1,2,4-Trichlorobenzene	22.15	180	196854	1.044	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1481864

Ion Ratio Lower Upper

49 100

128 52.6 26.2 78.5

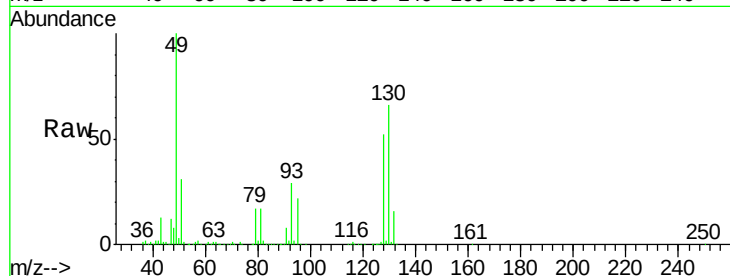
130 67.9 33.6 100.6

Manual Integrations

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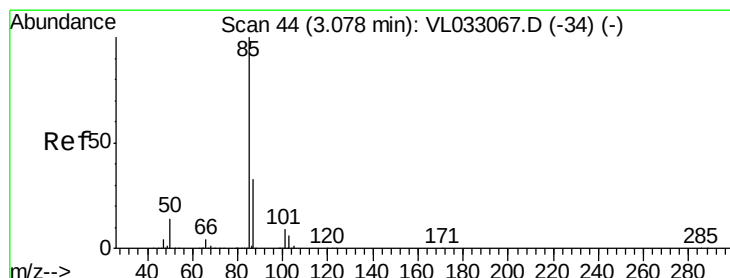
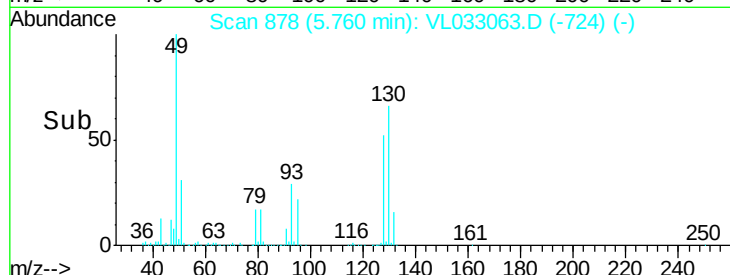
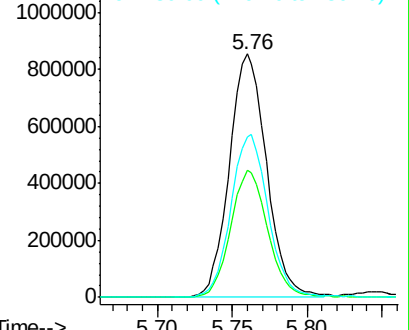
1/8/2019 12:01:05 AM



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: 1.054 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033063.D

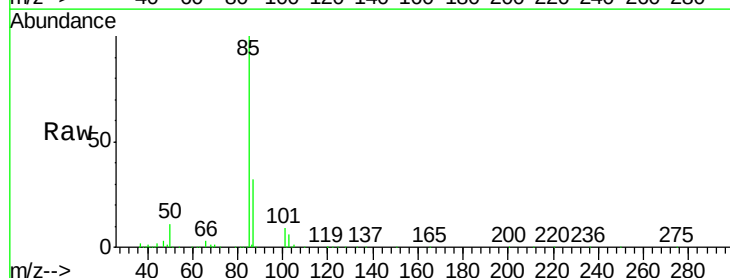
Acq: 4 Jan 2019 10:43

Tgt Ion: 85 Resp: 348147

Ion Ratio Lower Upper

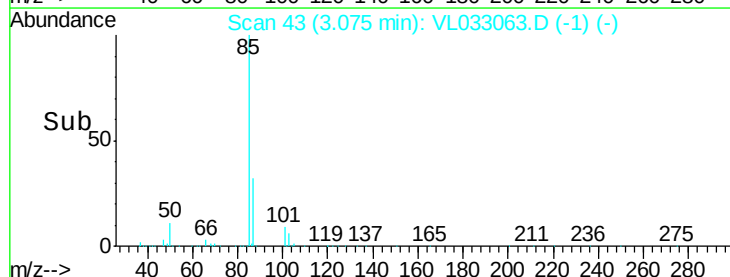
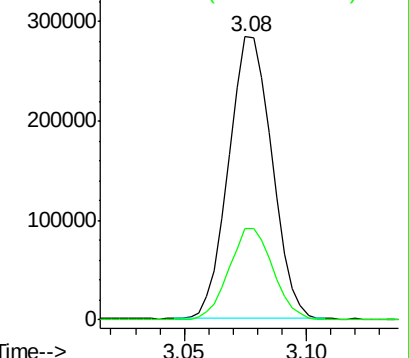
85 100

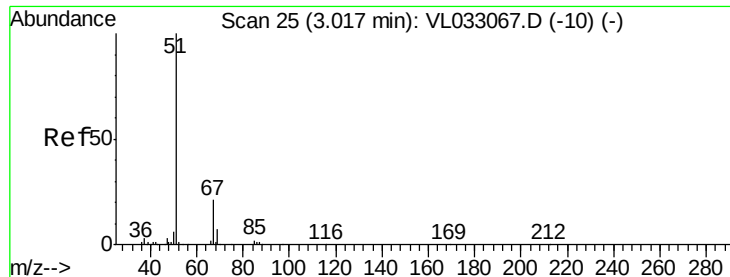
87 32.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.109 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 199931

Ion Ratio Lower Upper

51 100

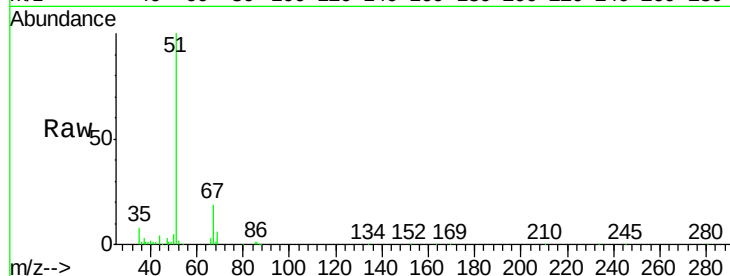
67 19.2 16.3 24.5

Manual Integrations

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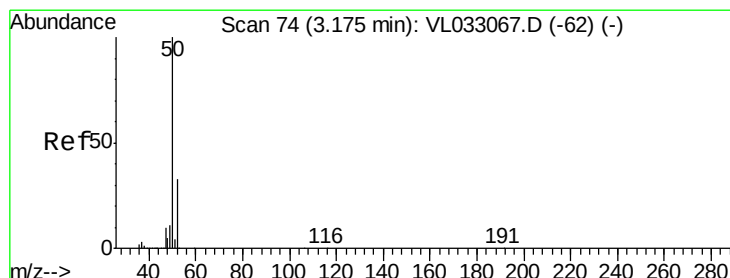
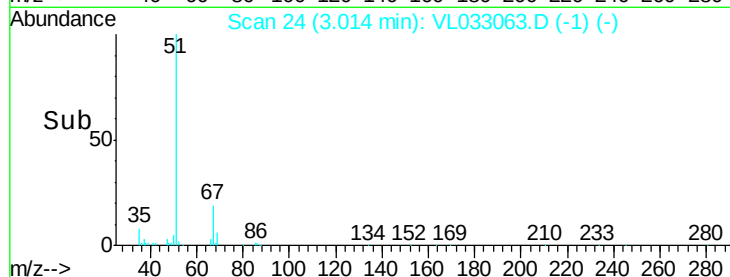
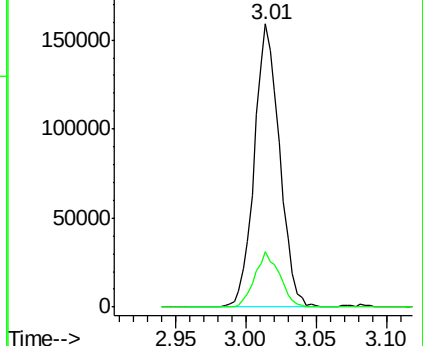
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.067 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033063.D

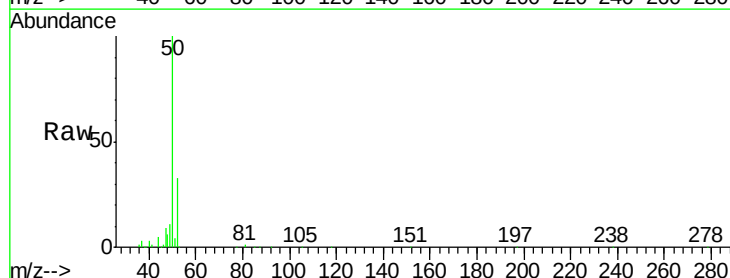
Acq: 4 Jan 2019 10:43

Tgt Ion: 50 Resp: 111839

Ion Ratio Lower Upper

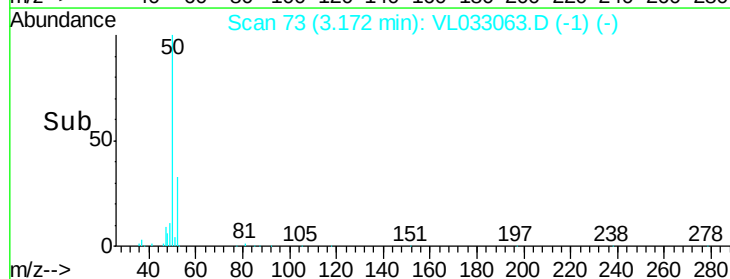
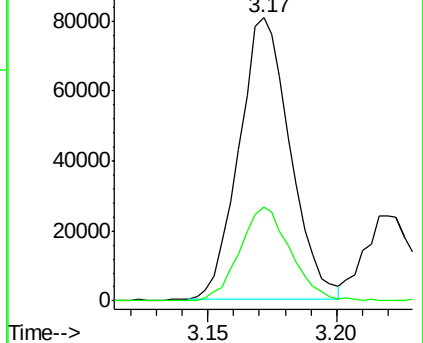
50 100

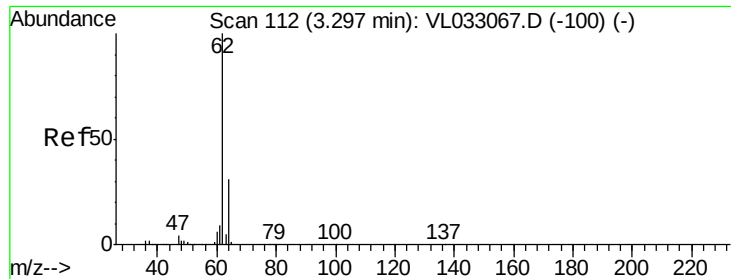
52 33.4 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.915 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 101860

Ion Ratio Lower Upper

62 100

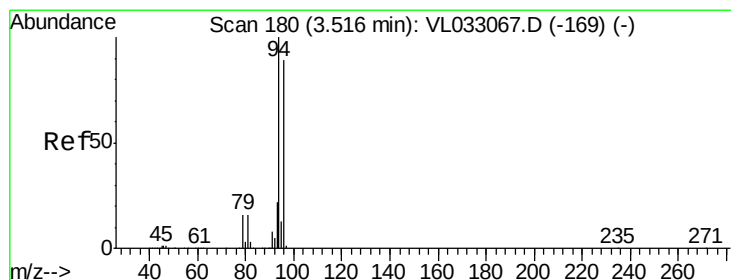
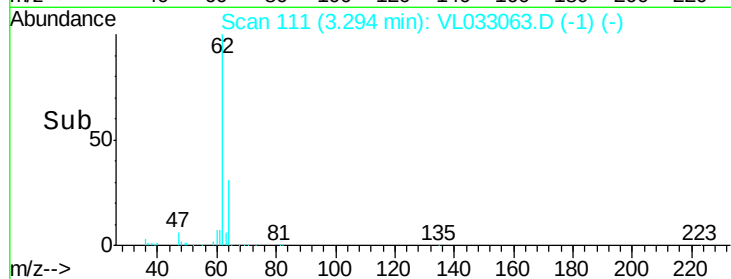
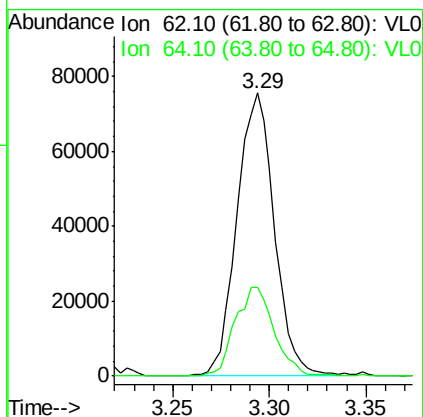
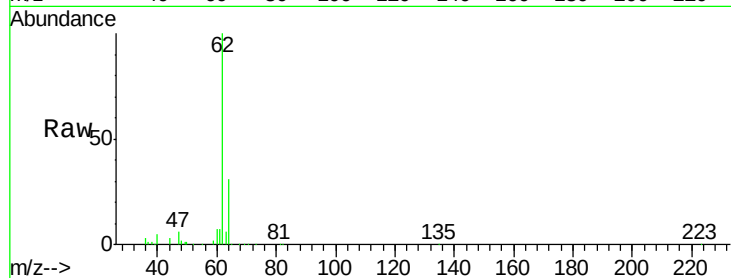
64 31.4 25.3 37.9

Manual Integrations

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#6

Bromomethane

Concen: 1.101 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033063.D

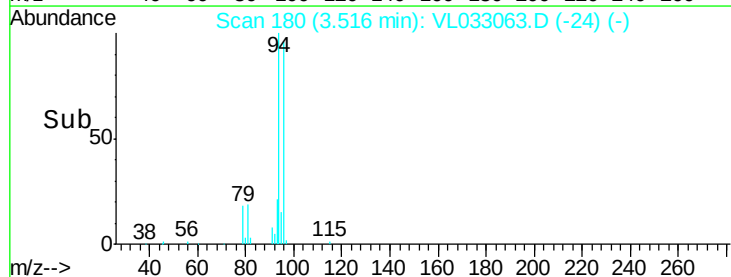
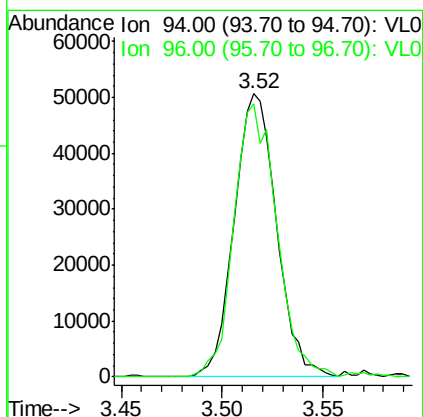
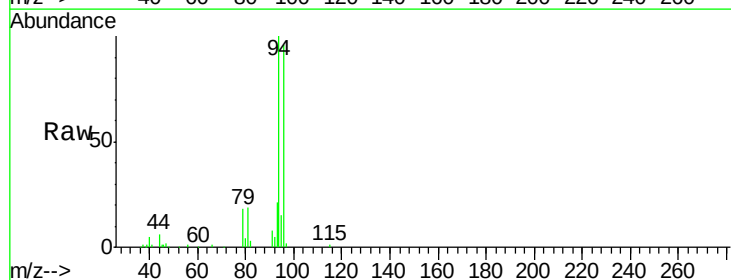
Acq: 4 Jan 2019 10:43

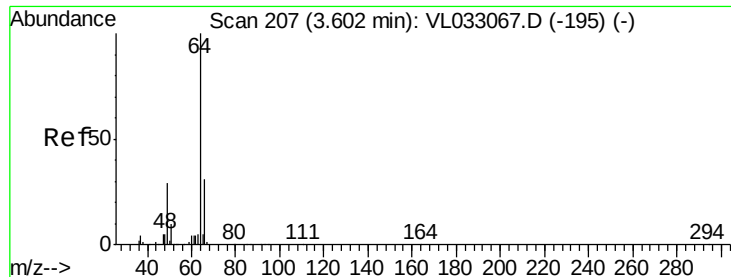
Tgt Ion: 94 Resp: 74607

Ion Ratio Lower Upper

94 100

96 96.4 72.8 109.2





#7

Chloroethane

Concen: 1.138 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 43526

Ion Ratio Lower Upper

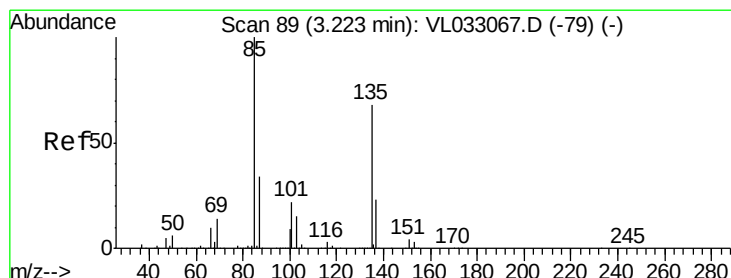
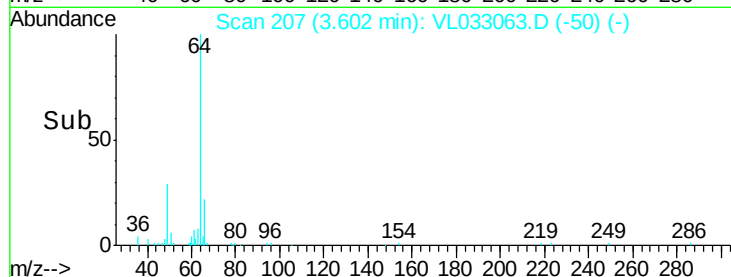
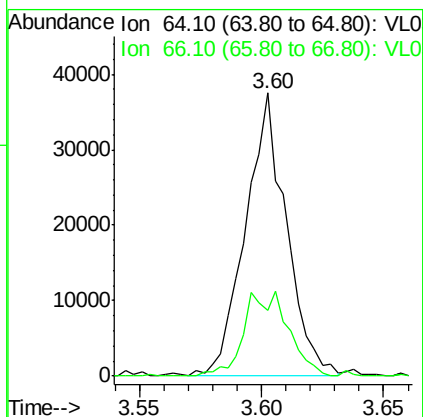
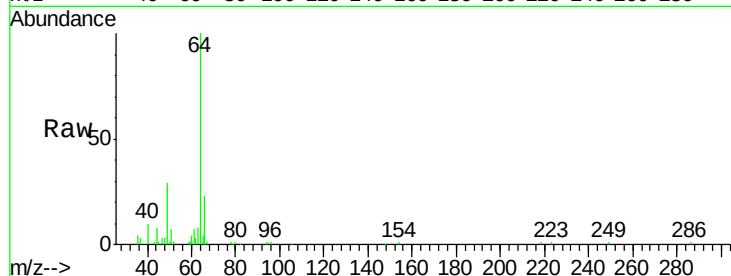
64 100

66 23.4 23.7 35.5#

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 1.046 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033063.D

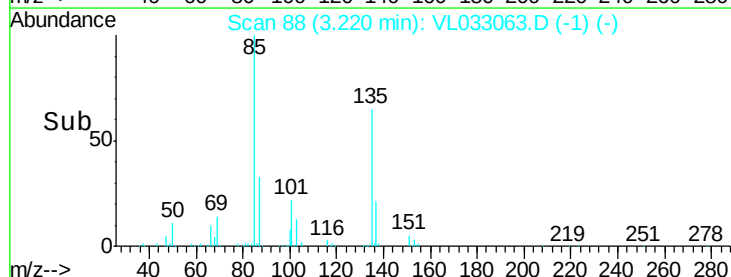
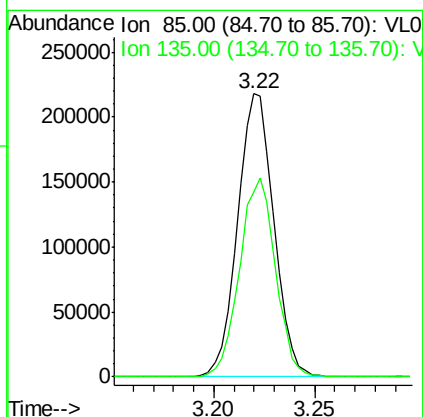
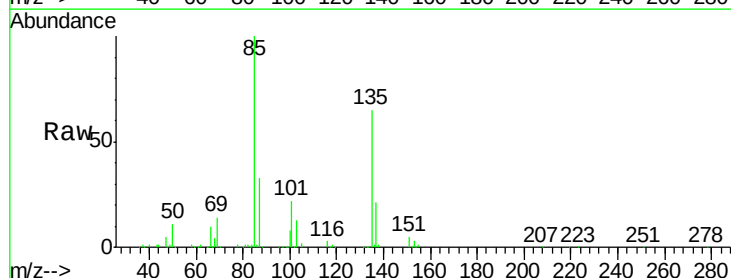
Acq: 4 Jan 2019 10:43

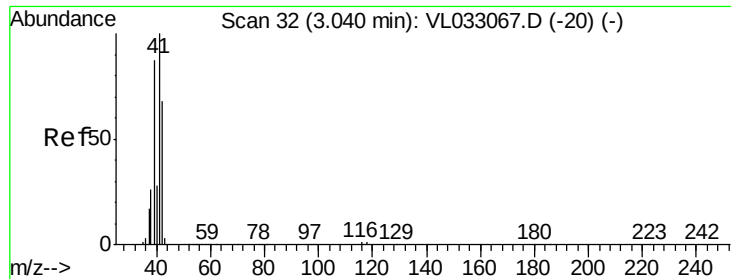
Tgt Ion: 85 Resp: 275339

Ion Ratio Lower Upper

85 100

135 69.6 54.9 82.3





#9

Propene

Concen: 1.055 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 73821

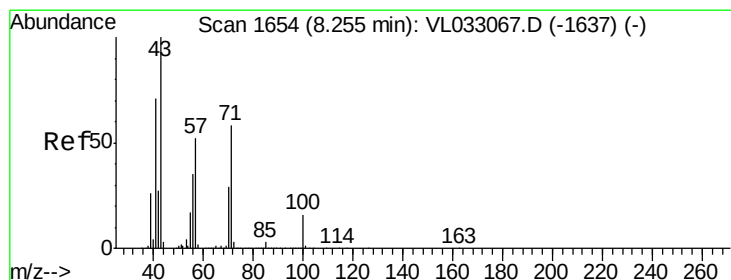
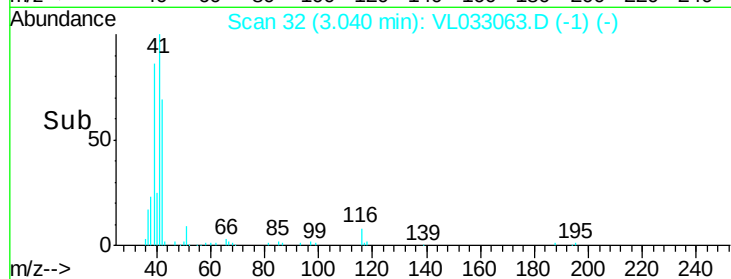
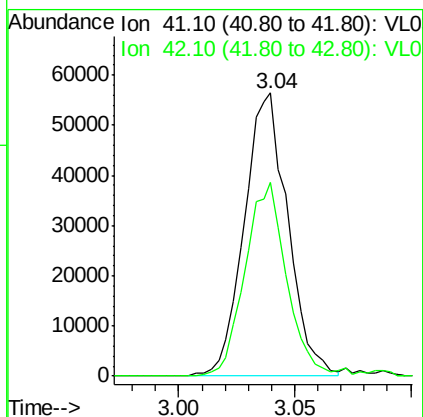
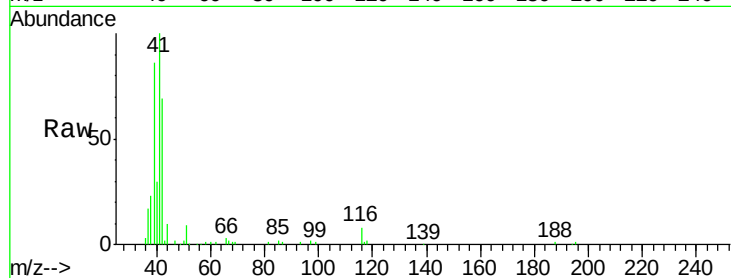
Ion Ratio Lower Upper

41 100

42 66.8 55.3 82.9

Manual Integrations
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#10

Heptane

Concen: 1.027 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033063.D

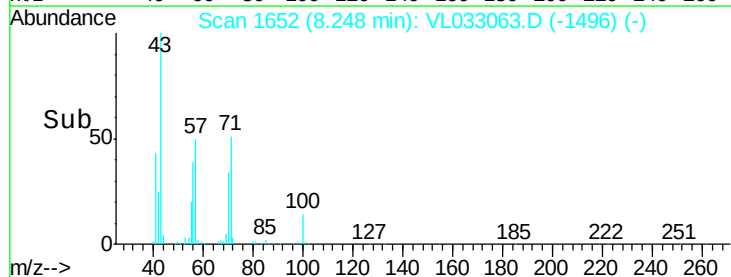
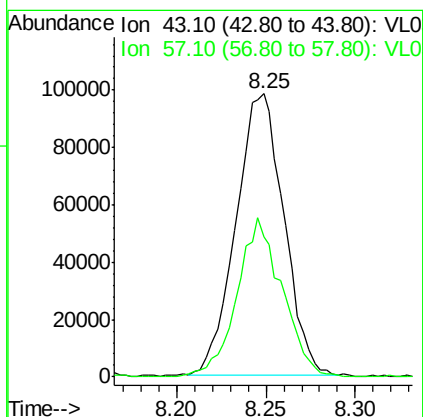
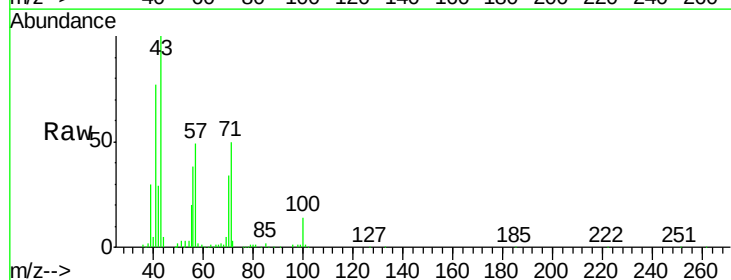
Acq: 4 Jan 2019 10:43

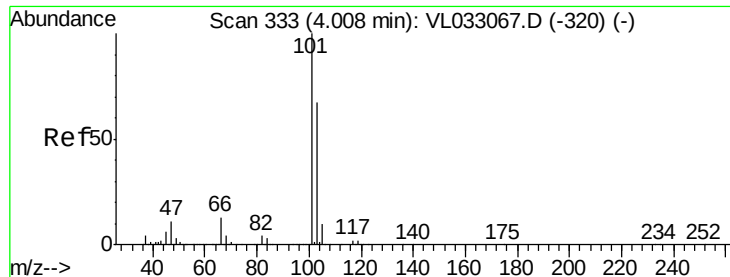
Tgt Ion: 43 Resp: 183960

Ion Ratio Lower Upper

43 100

57 53.3 41.9 62.9





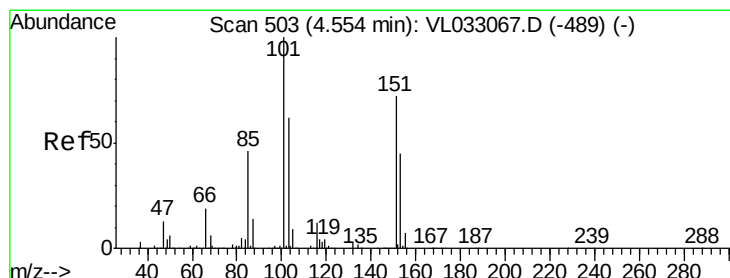
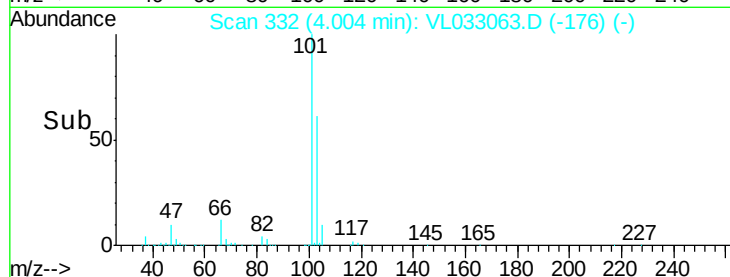
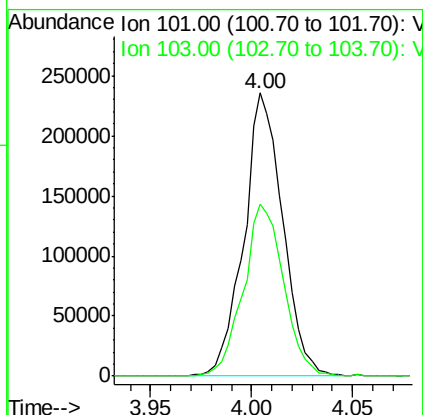
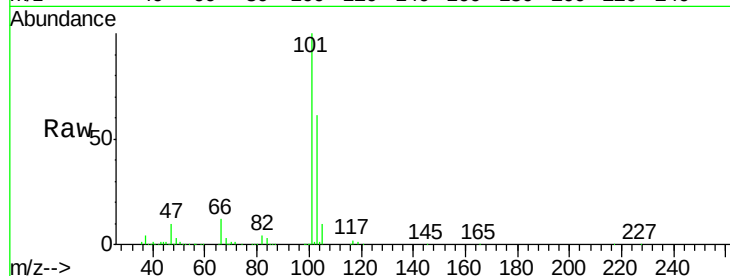
#11
 Trichlorofluoromethane
 Concen: 1.095 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:101 Resp: 318233
 Ion Ratio Lower Upper
 101 100
 103 60.6 51.7 77.5

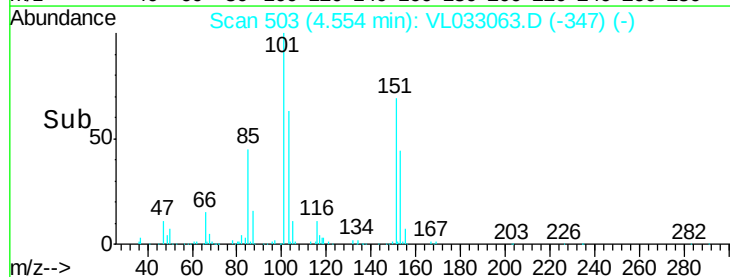
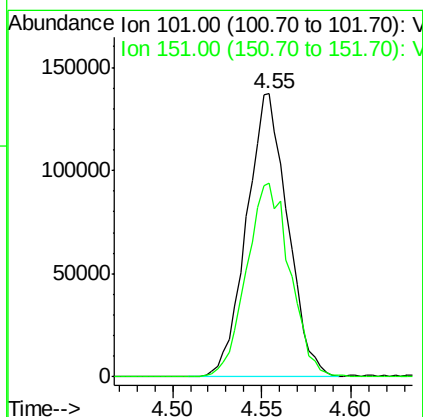
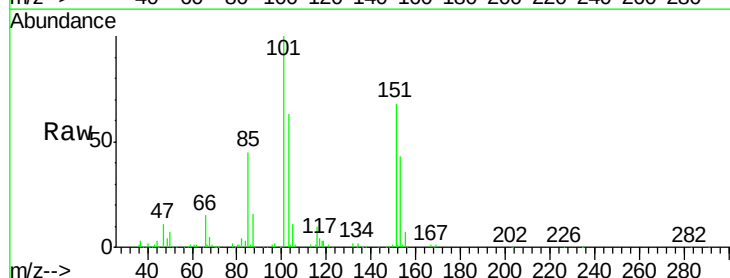
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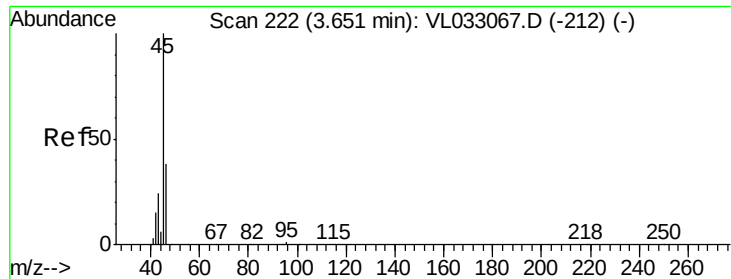
MMDadoda
 1/8/2019 12:01:05 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.126 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion:101 Resp: 221132
 Ion Ratio Lower Upper
 101 100
 151 72.5 58.3 87.5





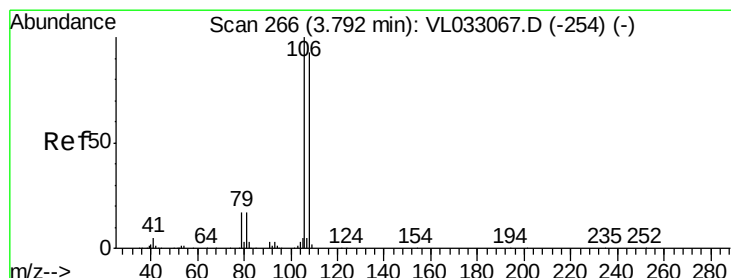
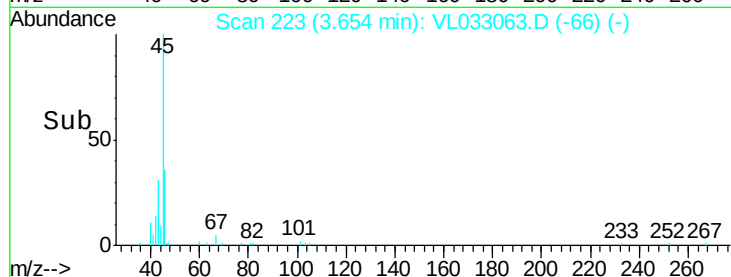
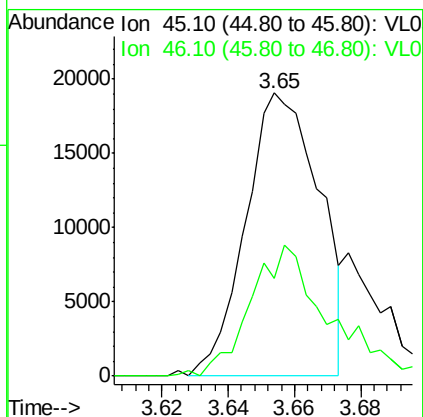
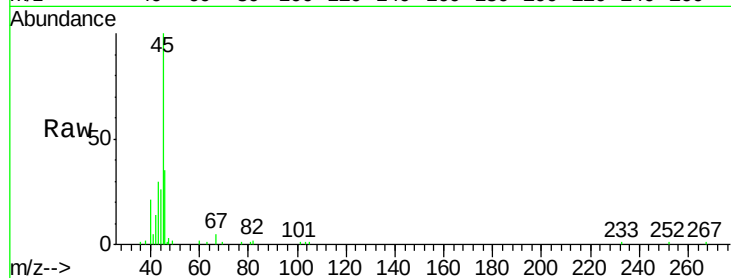
#13
Ethanol
Concen: 1.081 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
45	100		
46	50.6	13.8	55.2

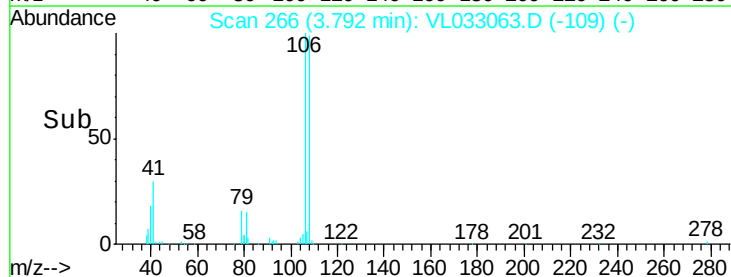
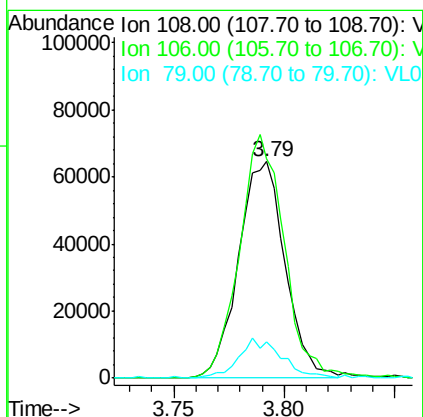
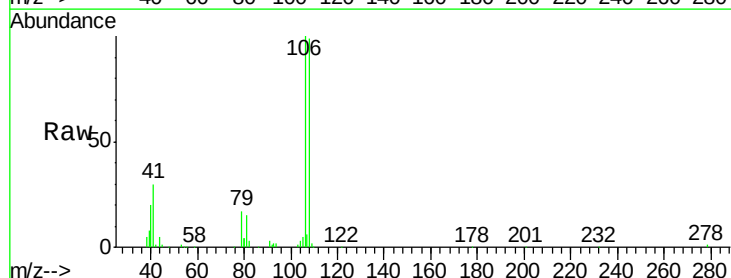
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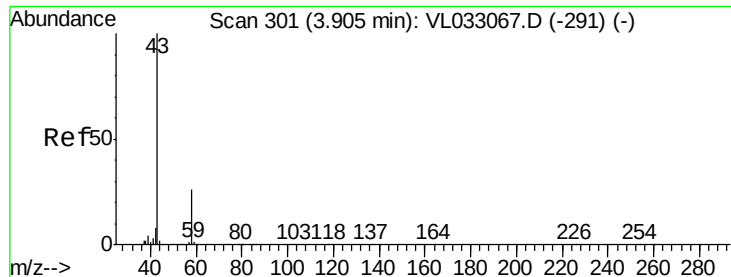
MMDadoda
1/8/2019 12:01:05 AM



#14
Bromoethene
Concen: 1.136 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.9	86.4	129.6
79	17.8	14.3	21.5





#15

Acetone

Concen: 1.156 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 224049

Ion Ratio Lower Upper

43 100

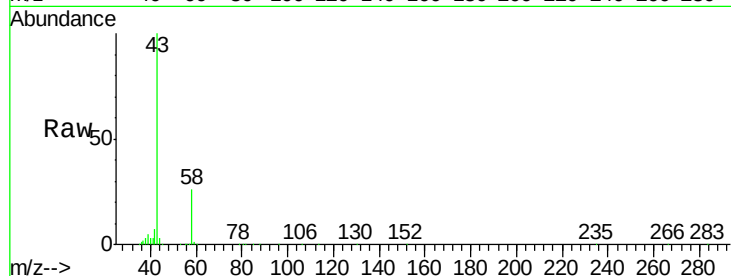
58 26.9 21.1 31.7

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

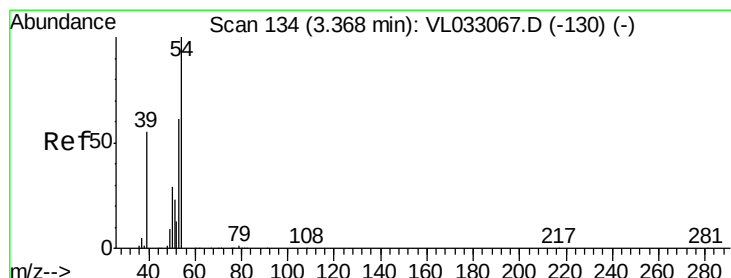
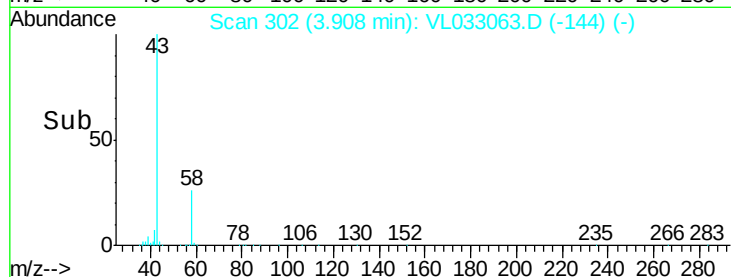
150000

100000

50000

0

Time-->



#16

1,3-Butadiene

Concen: 0.990 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033063.D

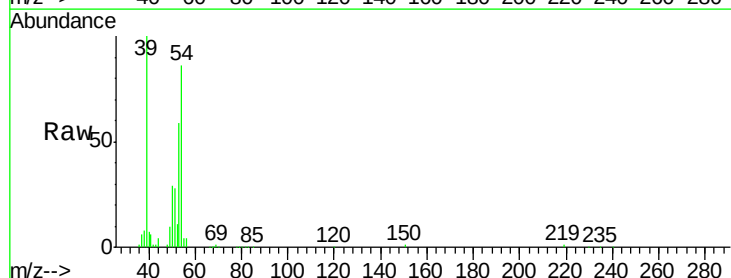
Acq: 4 Jan 2019 10:43

Tgt Ion: 39 Resp: 83603

Ion Ratio Lower Upper

39 100

54 88.5 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

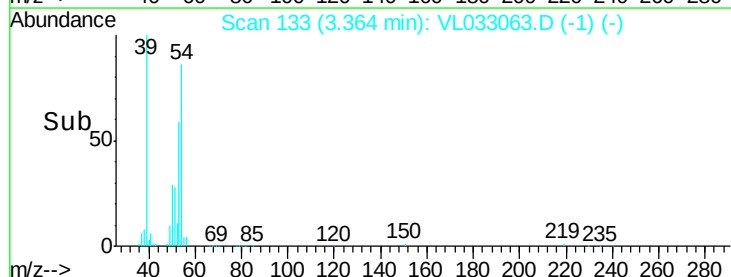
60000

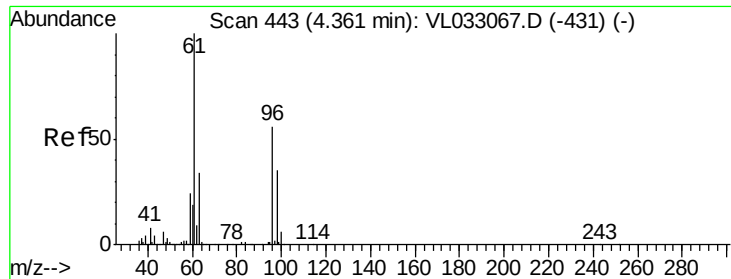
40000

20000

0

Time-->





#17

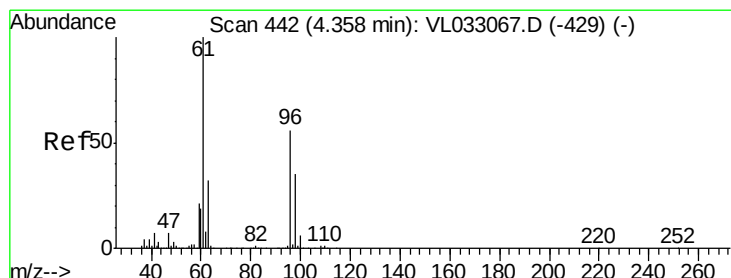
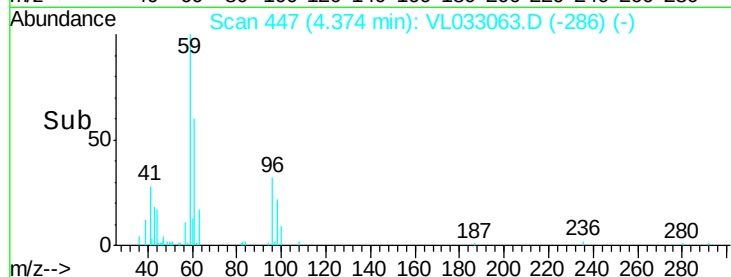
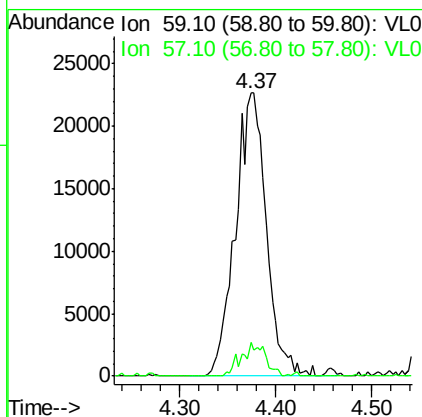
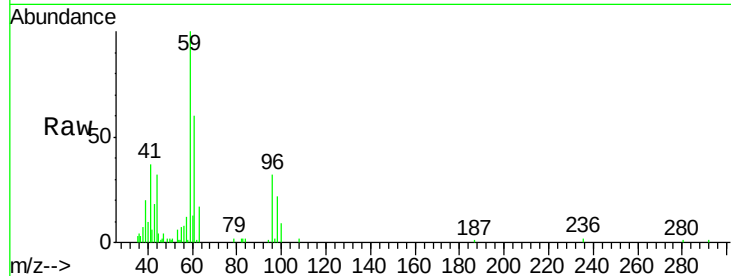
tert-Butyl alcohol
Concen: 1.184 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 59 Resp: 51270
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

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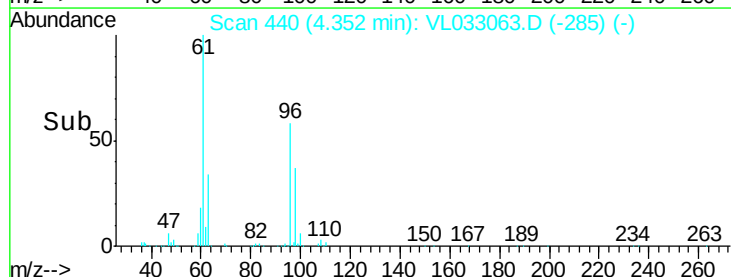
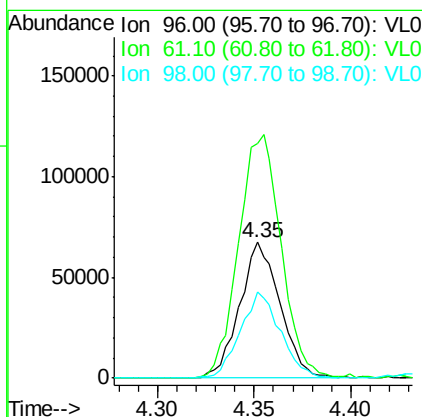
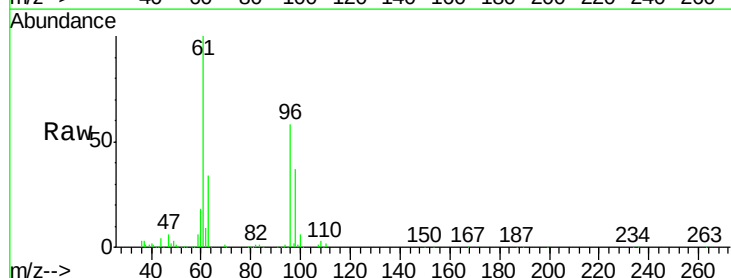
MMDadoda
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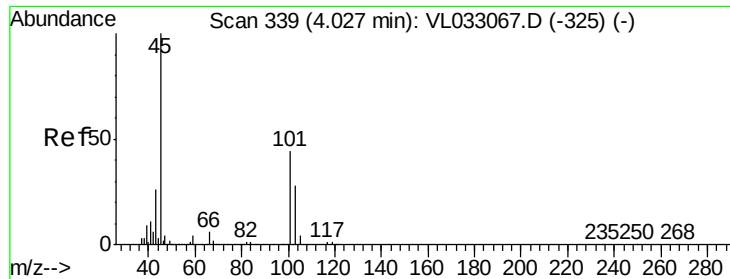


#18

1,1-Dichloroethene
Concen: 1.109 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion: 96 Resp: 97662
Ion Ratio Lower Upper
96 100
61 172.1 143.7 215.5
98 63.7 52.1 78.1





#19

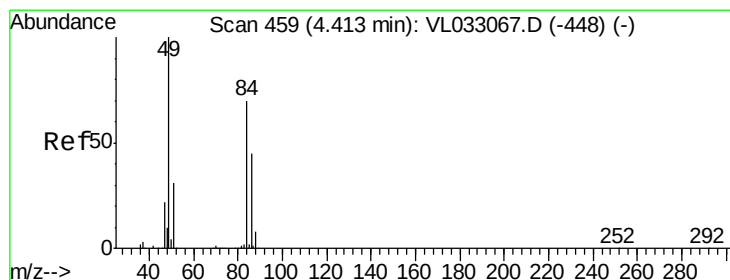
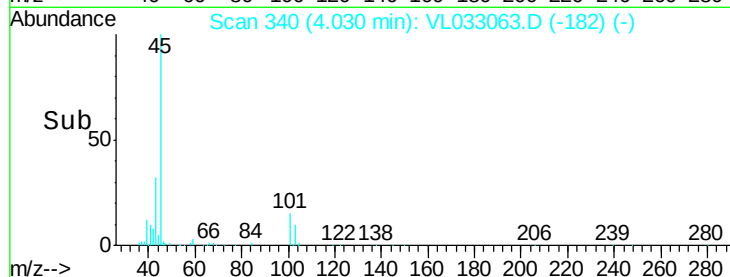
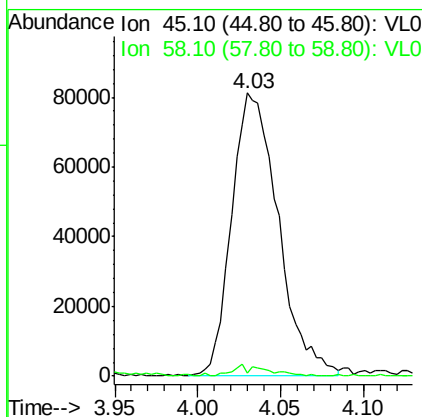
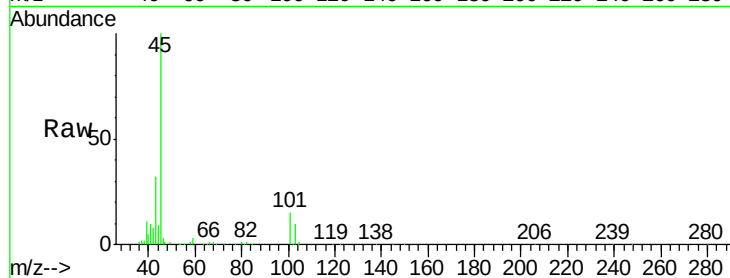
Isopropyl Alcohol
 Concen: 1.215 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. 0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 45 Resp: 157256
 Ion Ratio Lower Upper
 45 100
 58 3.6 1.4 2.2#

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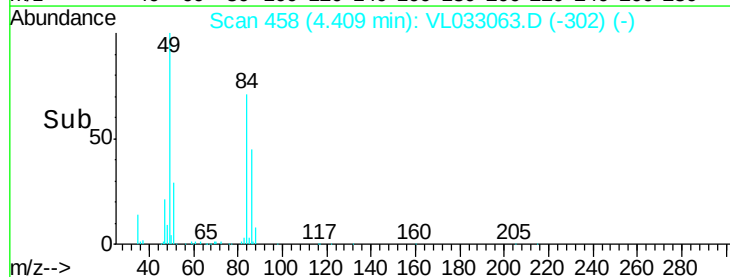
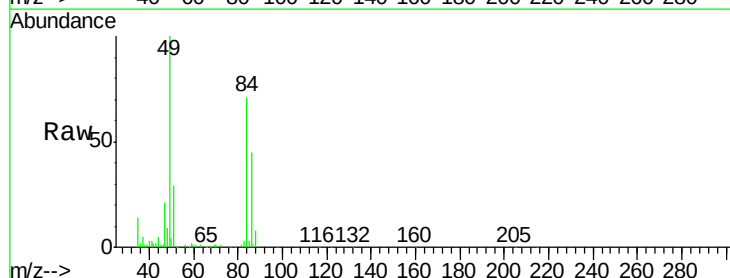
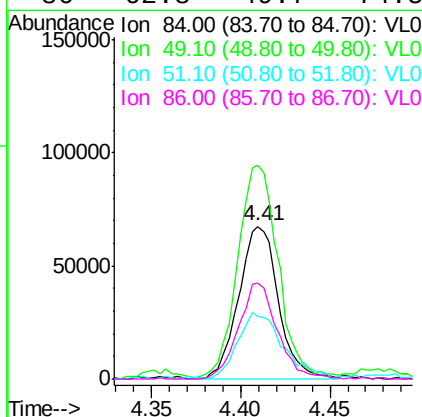
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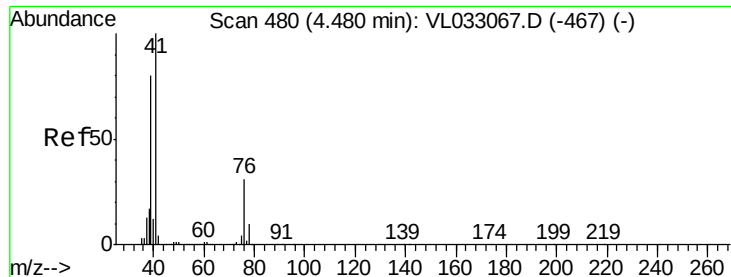


#20

Methylene Chloride
 Concen: 1.228 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion: 84 Resp: 105301
 Ion Ratio Lower Upper
 84 100
 49 138.1 115.8 173.6
 51 39.5 35.7 53.5
 86 62.8 49.7 74.5





#21

Allvl Chloride

Concen: 1.107 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

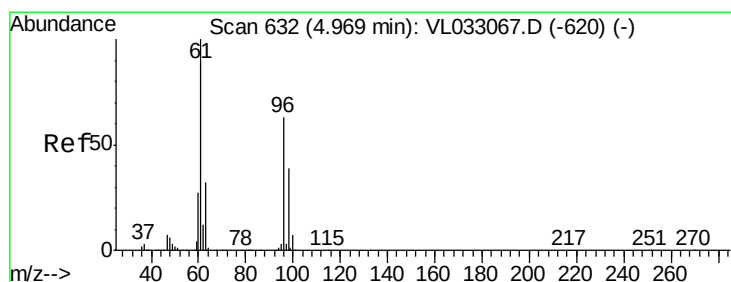
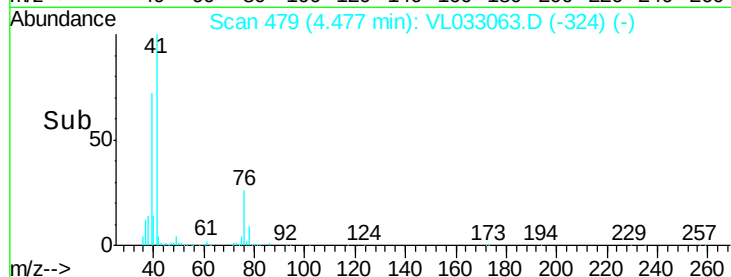
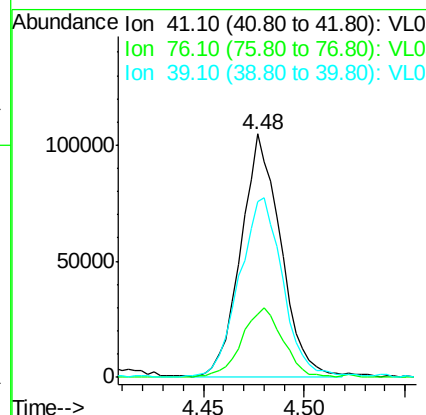
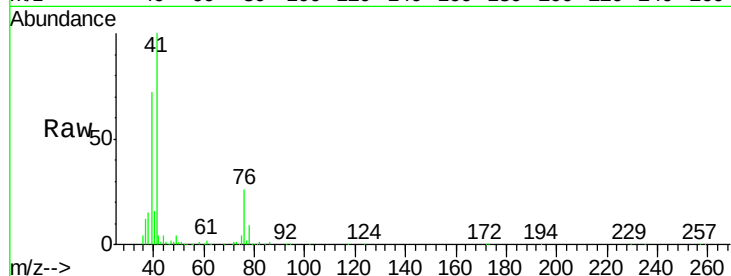
ClientSampleId :

VSTDIC001

Tot Ion:	41	Resp:	145922
Ion	Ratio	Lower	Upper
41	100		
76	29.9	24.6	36.8
39	79.4	62.8	94.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 1.116 ppbv

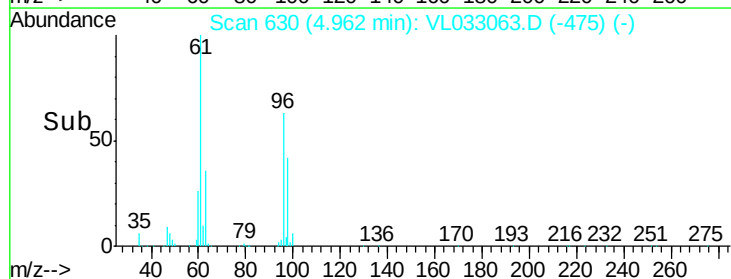
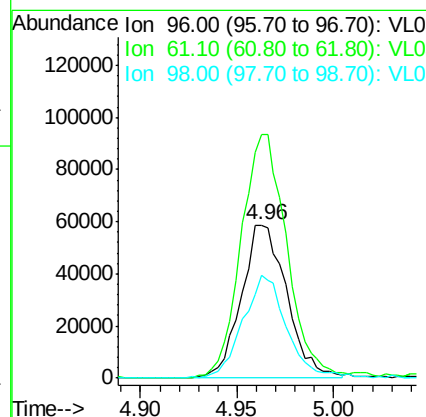
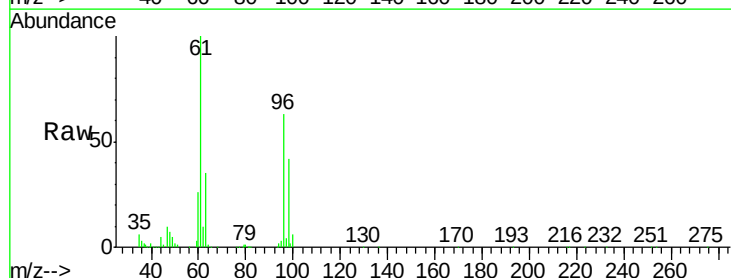
RT: 4.96 min Scan# 630

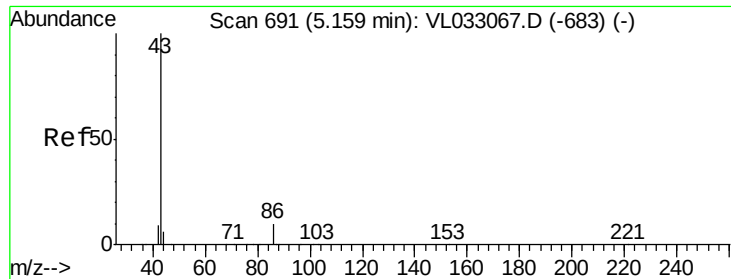
Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Tgt Ion:	96	Resp:	95970
Ion	Ratio	Lower	Upper
96	100		
61	158.7	125.2	187.8
98	65.9	50.9	76.3





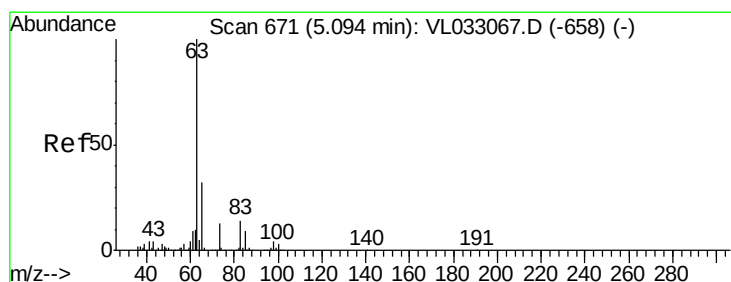
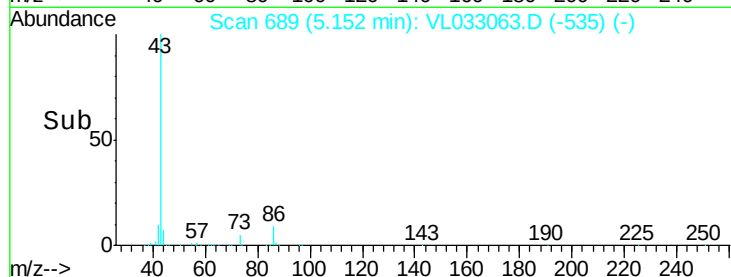
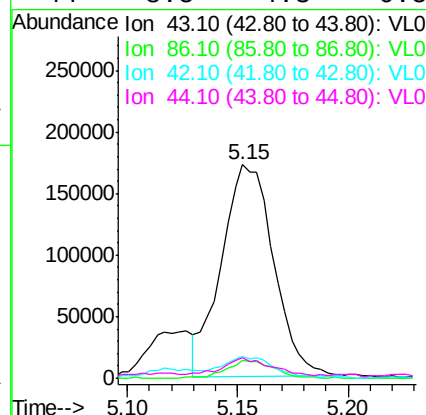
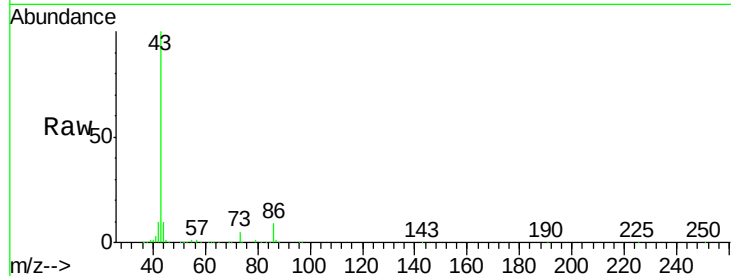
#23
 Vinyl Acetate
 Concen: 1.056 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	43	Resp	282743
Ion Ratio	Lower	Upper	
43	100		
86	8.7	6.2	9.4
42	9.9	8.1	12.1
44	8.5	4.3	6.5#

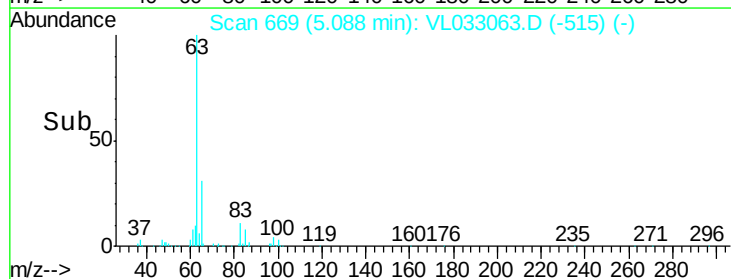
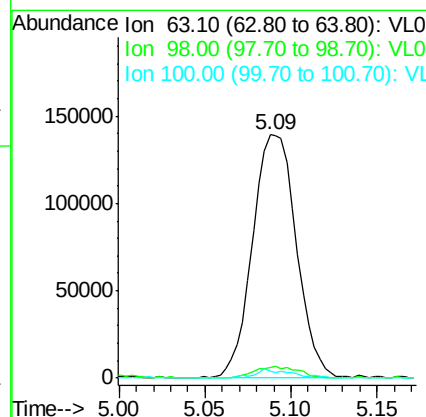
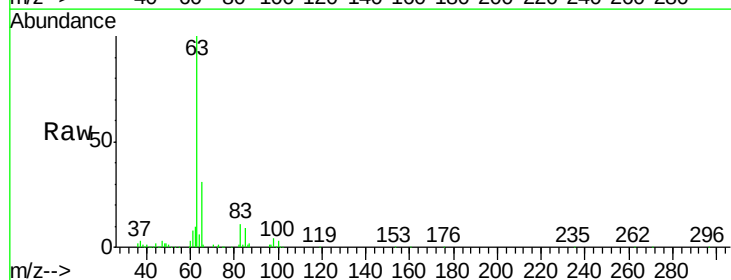
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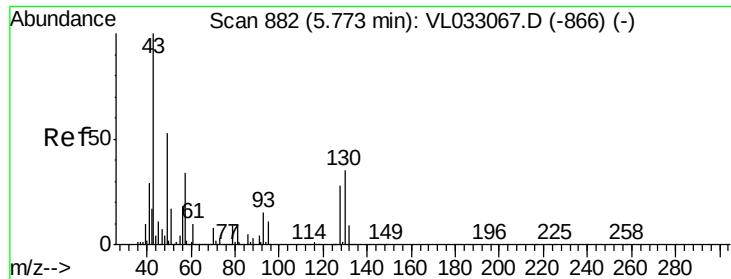
MMDadoda
 1/8/2019 12:01:05 AM



#24
 1,1-Dichloroethane
 Concen: 1.104 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	63	Resp	245369
Ion Ratio	Lower	Upper	
63	100		
98	4.2	2.4	7.2
100	2.9	1.4	4.0





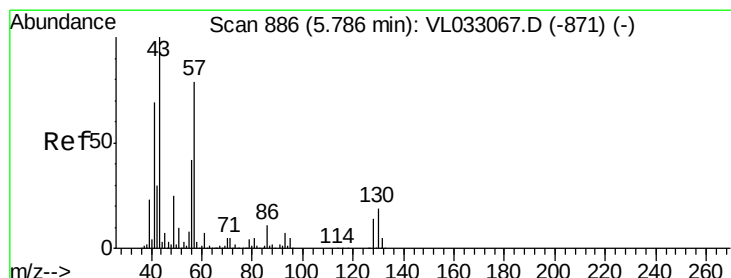
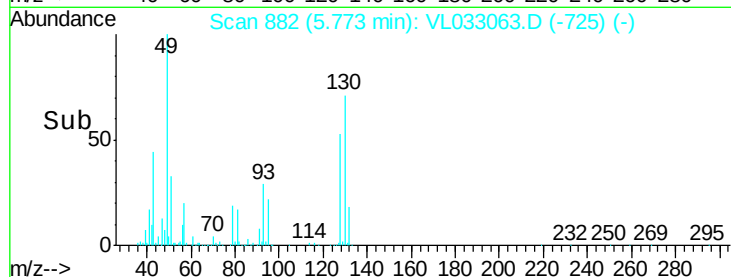
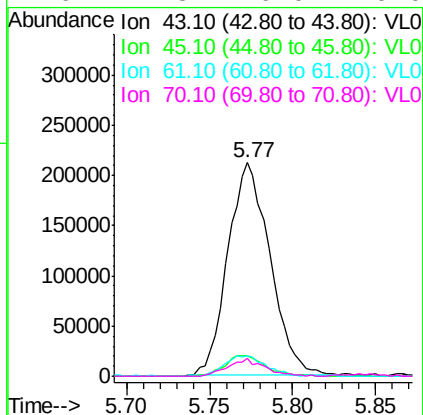
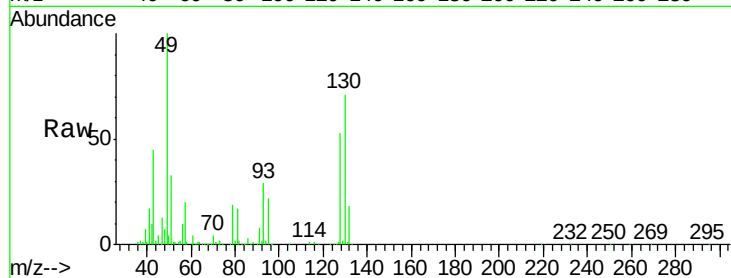
#25
Ethyl Acetate
Concen: 1.071 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.6	7.8	11.8
70	7.3	6.0	9.0

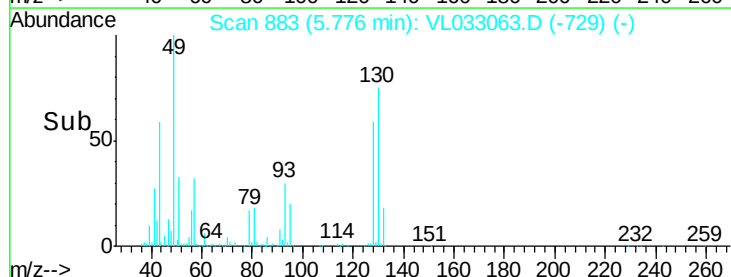
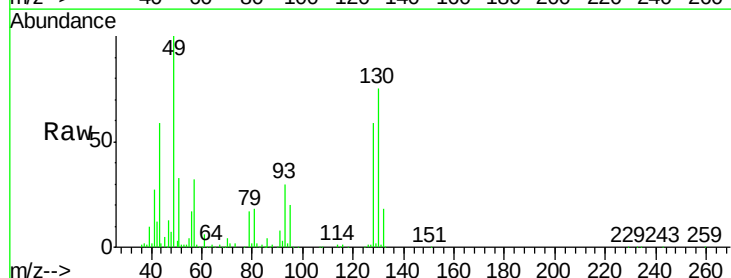
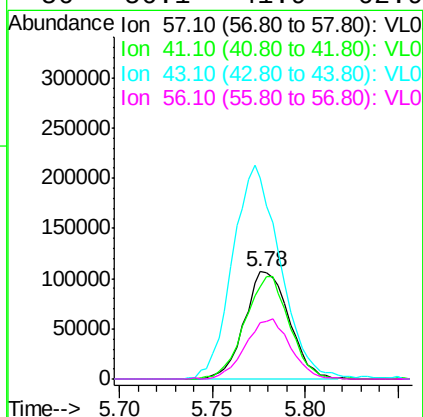
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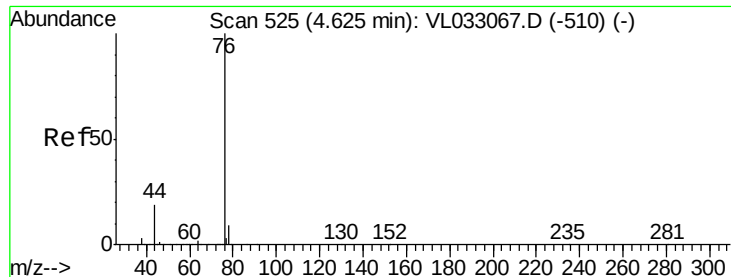
MMDadoda
1/8/2019 12:01:05 AM



#26
Hexane
Concen: 1.091 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.7	70.8	106.2
43	212.8	171.8	257.6
56	56.1	41.9	62.9





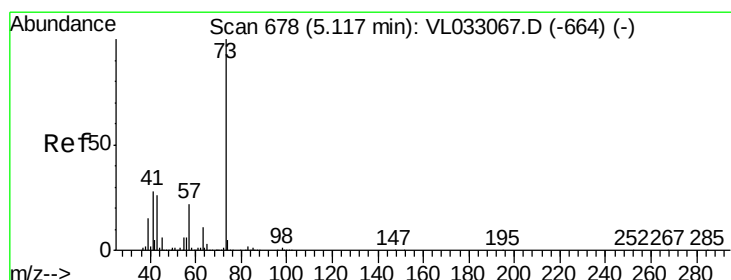
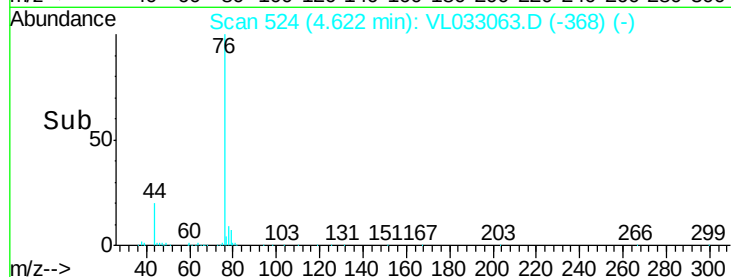
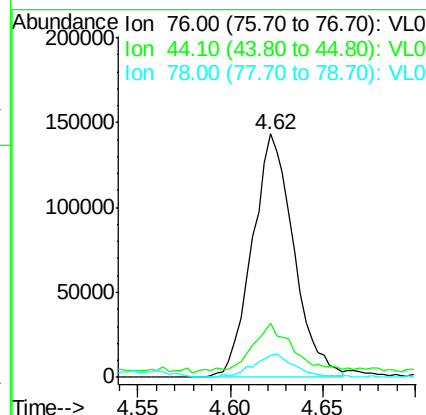
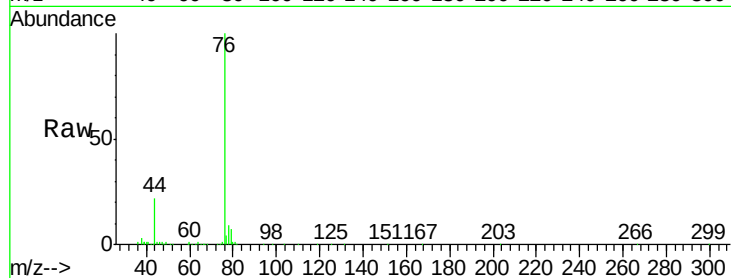
#27
Carbon Disulfide
Concen: 1.081 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	22.5	13.9	20.9#
78	9.8	7.3	10.9

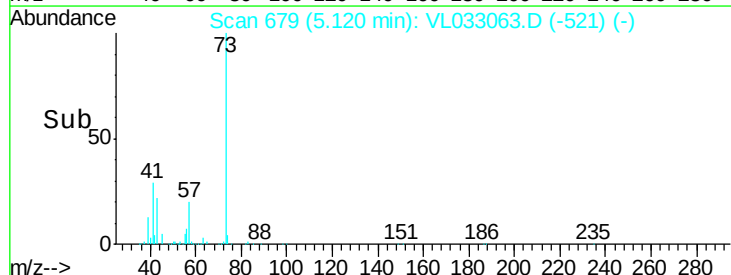
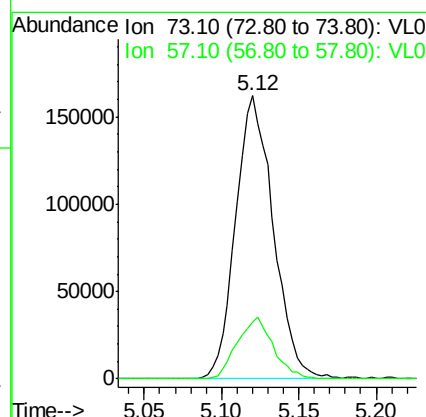
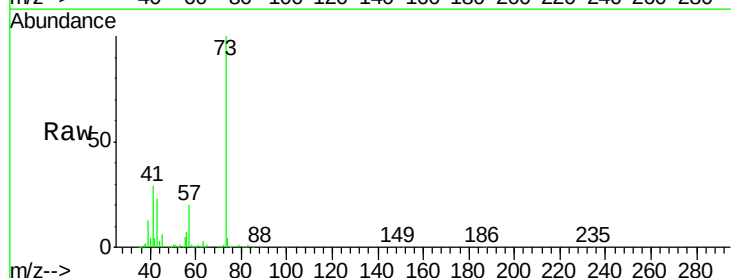
Manual Integrations
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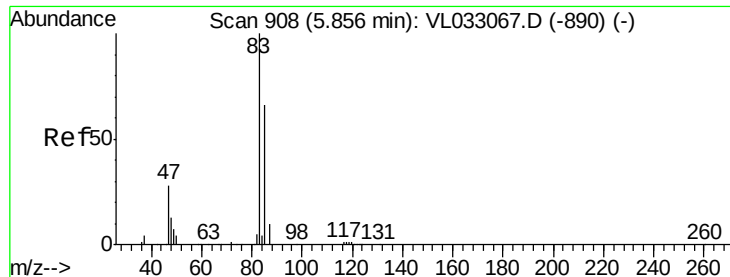
MMDadoda
1/8/2019 12:01:05 AM



#28
Methyl tert-Butyl Ether
Concen: 1.063 ppbv
RT: 5.12 min Scan# 679
Delta R.T. 0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.5	26.3





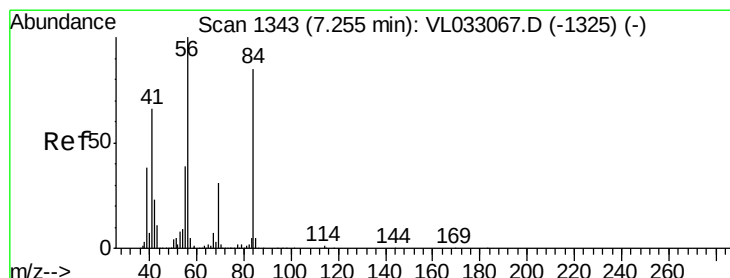
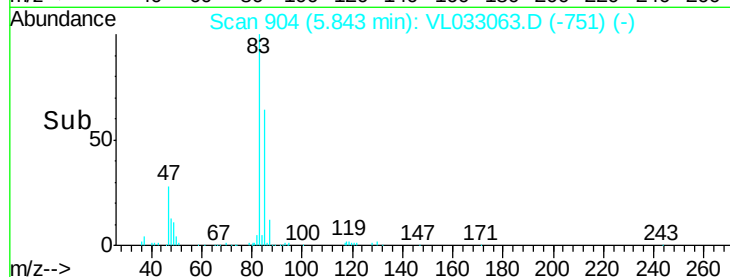
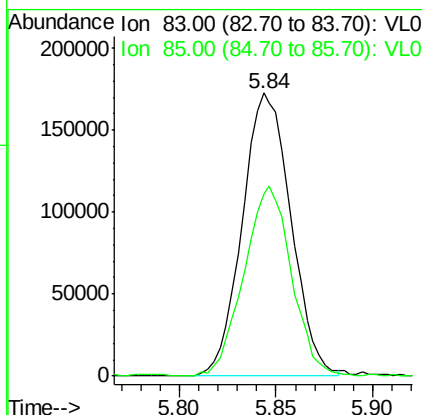
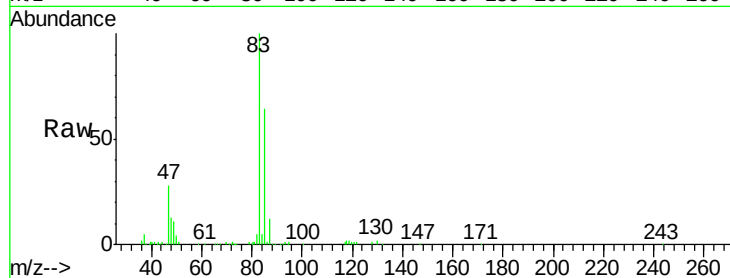
#29
Chloroform
Concen: 1.100 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	300058
Ion Ratio	100	Lower	Upper
85	64.3	52.5	78.7

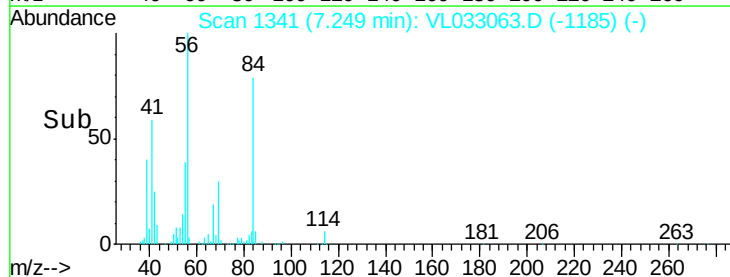
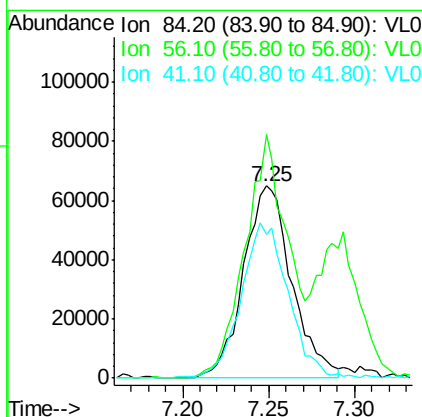
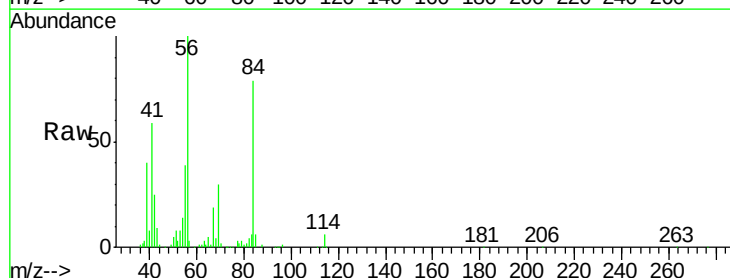
Manual Integrations
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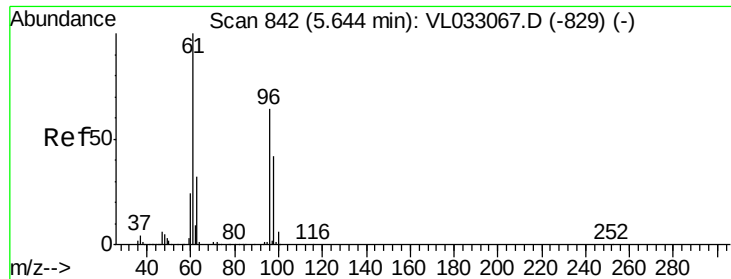
MMDadoda
1/8/2019 12:01:05 AM



#30
Cyclohexane
Concen: 1.019 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	84	Resp	125903
Ion Ratio	100	Lower	Upper
56	112.7	101.8	152.6
41	80.2	63.2	94.8





#31

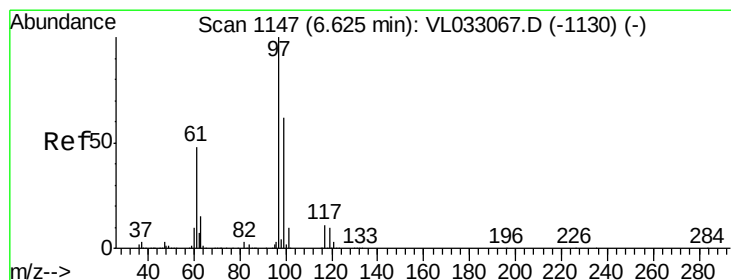
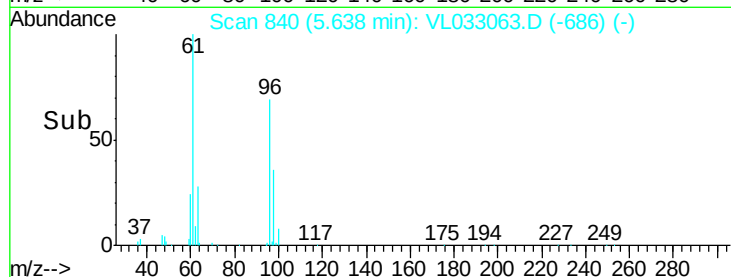
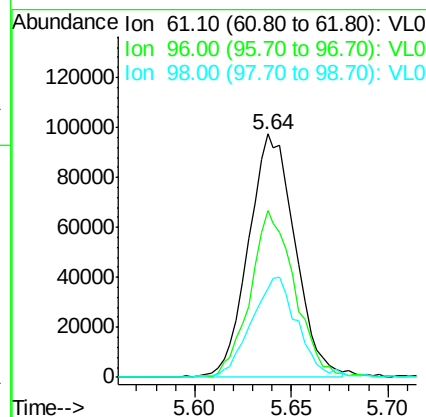
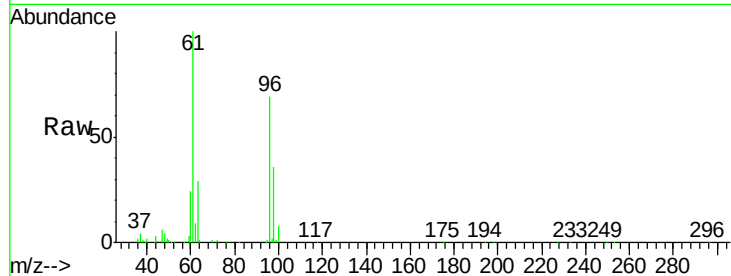
cis-1,2-Dichloroethene
 Concen: 1.060 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	68.7	52.8	79.2
98	36.3	33.8	50.6

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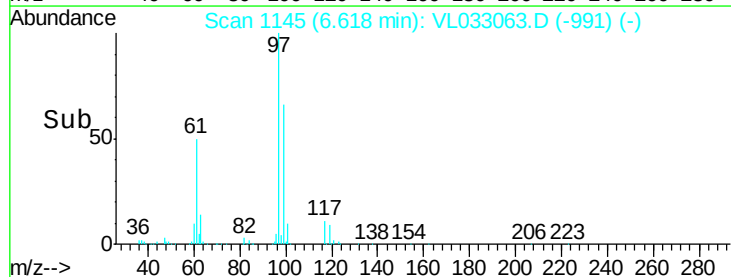
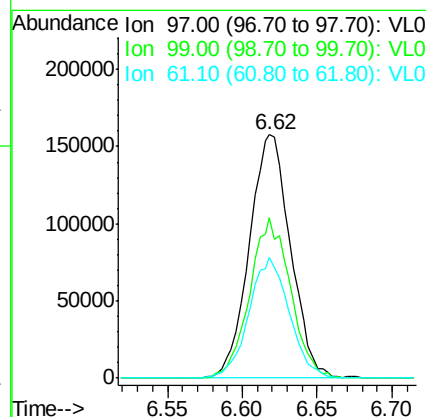
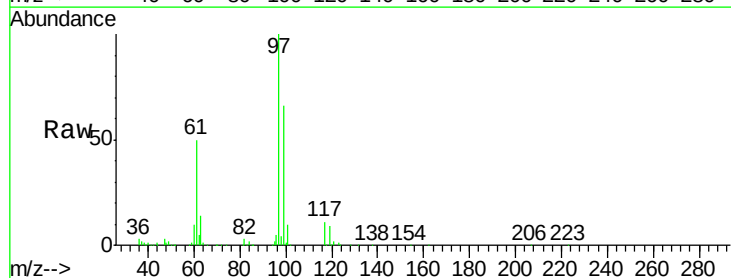
MMDadoda
 1/8/2019 12:01:05 AM

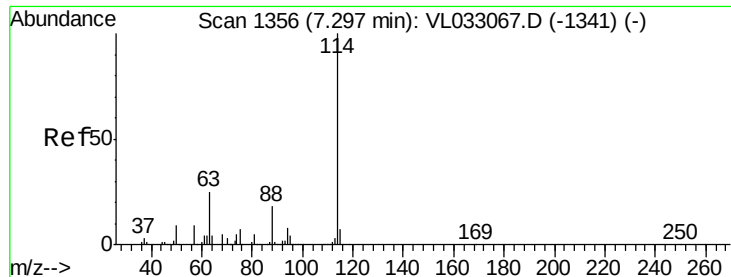


#32

1,1,1-Trichloroethane
 Concen: 1.048 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.1	76.7
61	48.8	38.3	57.5





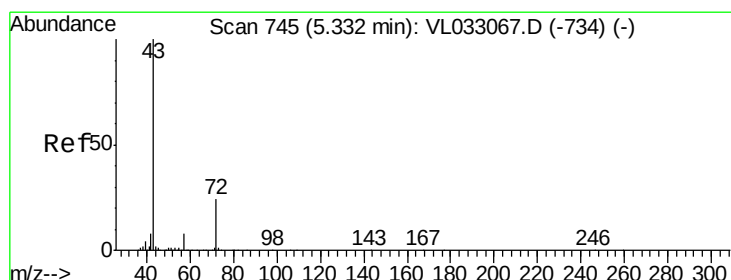
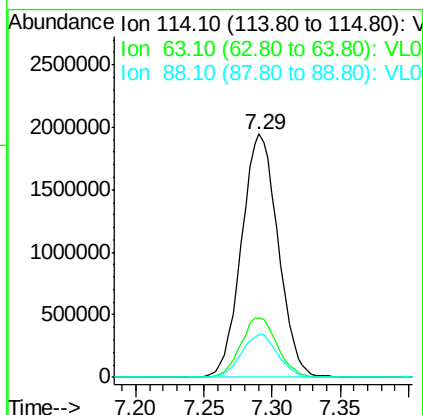
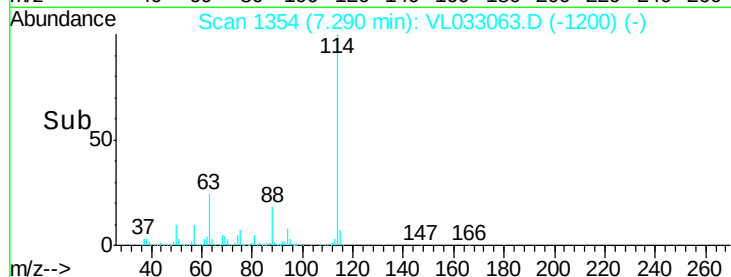
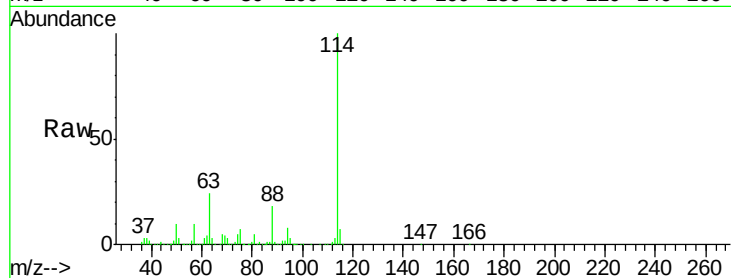
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:114 Resp: 3621550
 Ion Ratio Lower Upper
 114 100
 63 24.6 20.1 30.1
 88 17.5 14.0 21.0

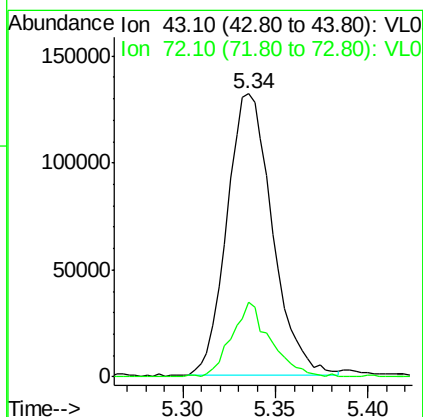
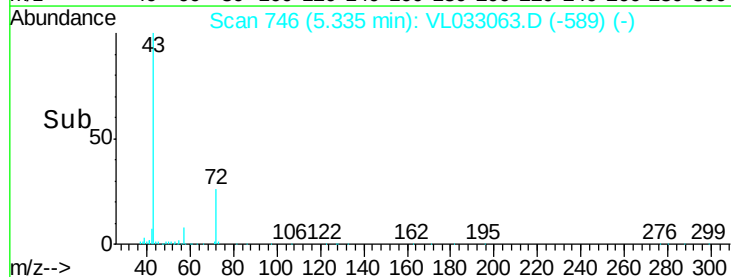
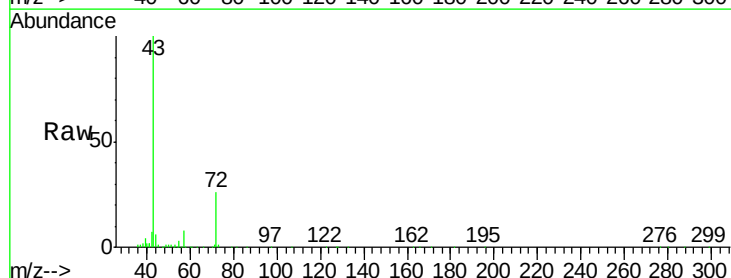
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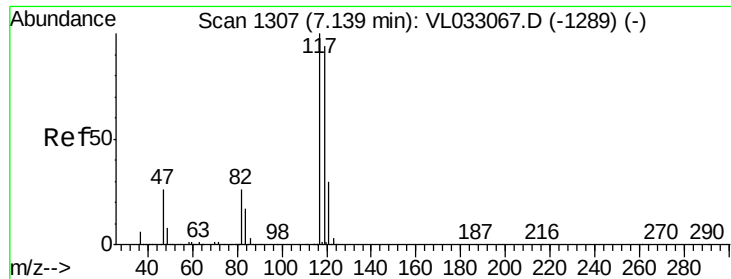
MMDadoda
 1/8/2019 12:01:05 AM



#34
 2-Butanone
 Concen: 1.063 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion: 43 Resp: 224686
 Ion Ratio Lower Upper
 43 100
 72 22.6 18.9 28.3





#35

Carbon Tetrachloride

Concen: 1.055 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

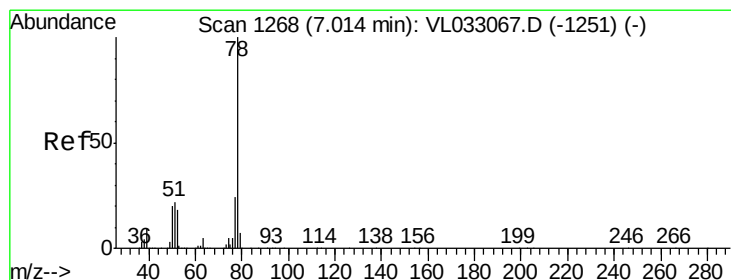
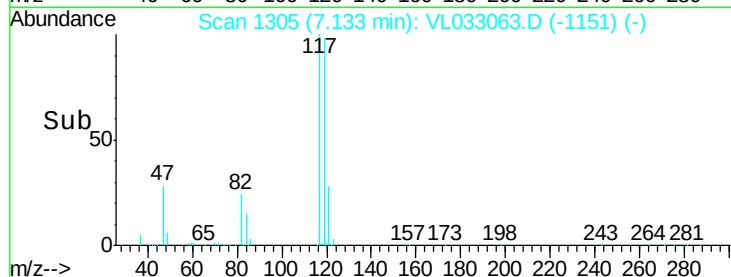
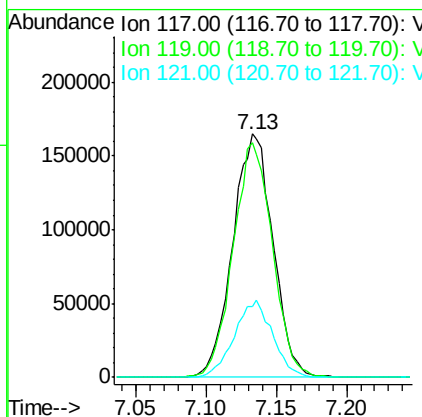
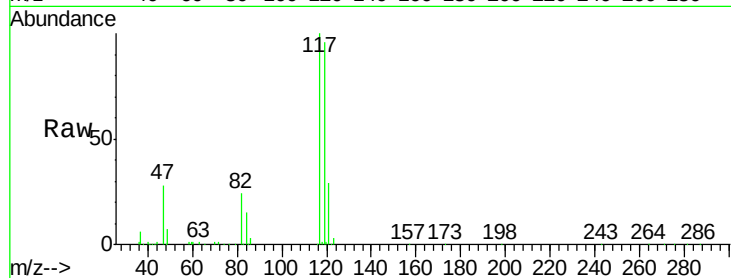
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	329924
Ion Ratio	Lower	Upper	
117	100		
119	96.0	76.5	114.7
121	29.2	25.2	37.8

Manual Integrations
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MMDadoda
1/8/2019 12:01:05 AM



#36

Benzene

Concen: 1.065 ppbv

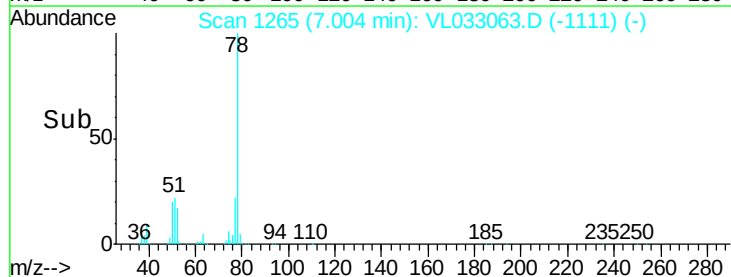
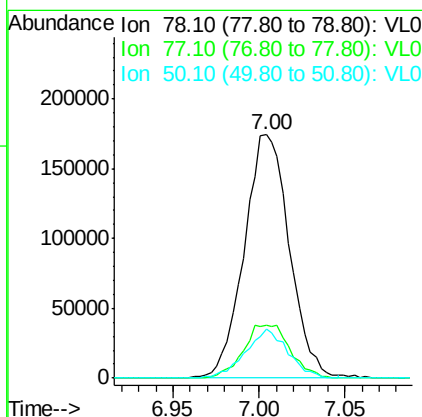
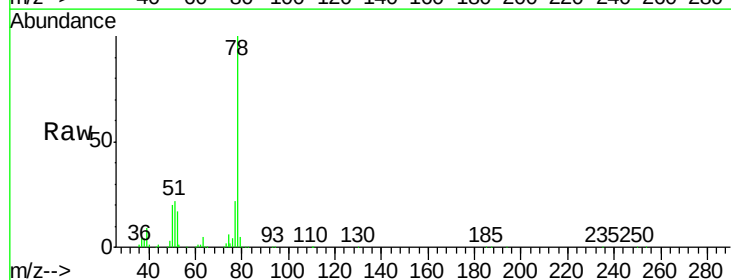
RT: 7.00 min Scan# 1265

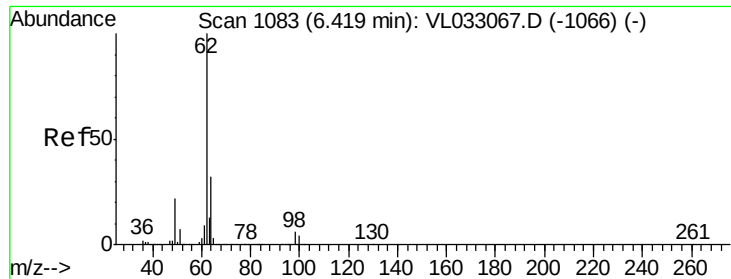
Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Tgt Ion:	78	Resp:	317438
Ion Ratio	Lower	Upper	
78	100		
77	21.8	18.5	27.7
50	20.3	15.7	23.5





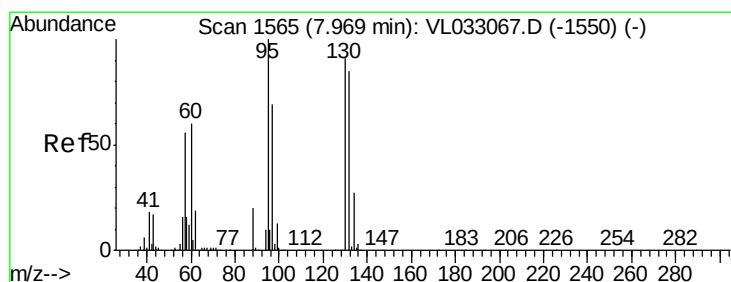
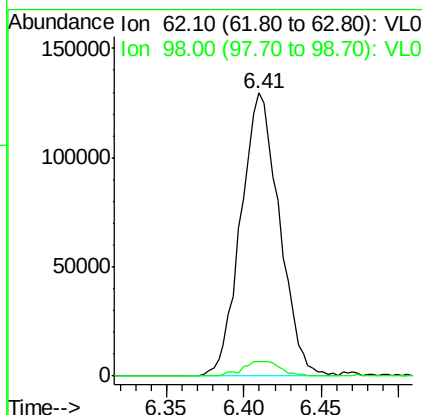
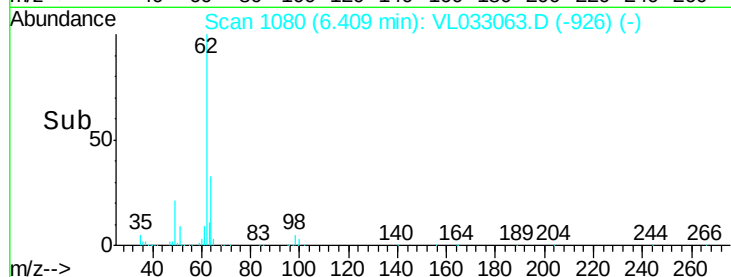
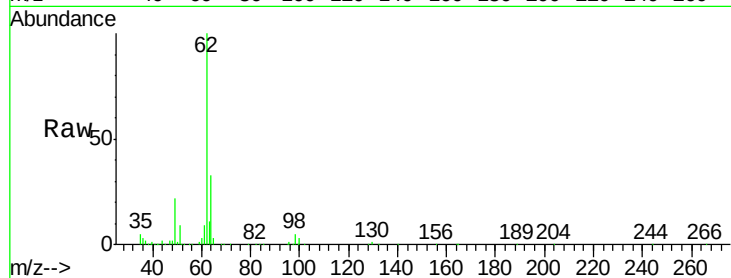
#37
 1,2-Dichloroethane
 Concen: 1.113 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	22591		
98	5.3	4.6	7.0	

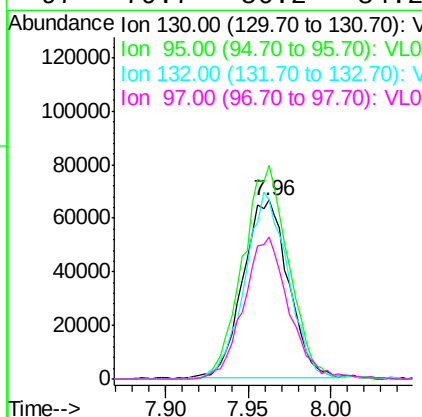
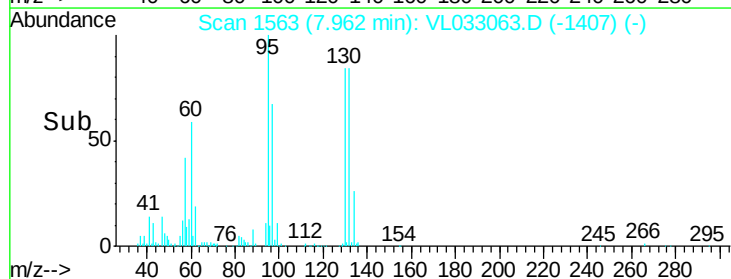
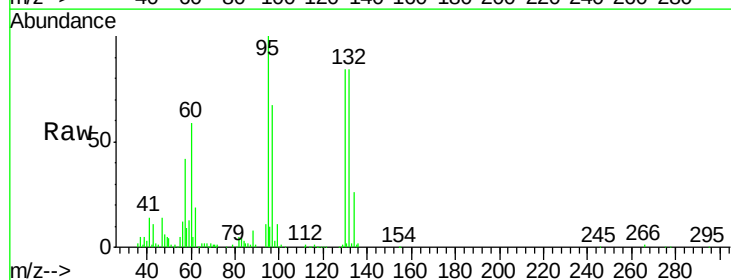
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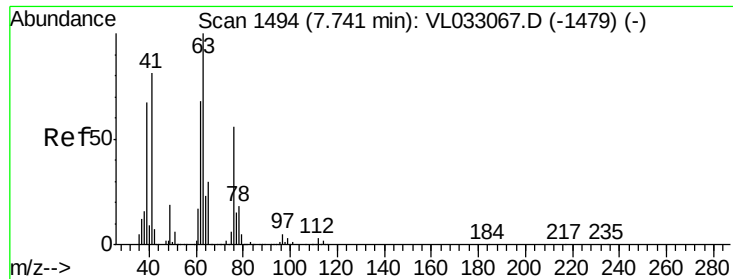
MMDadoda
 1/8/2019 12:01:05 AM



#38
 Trichloroethene
 Concen: 1.018 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	126671		
95	119.8	88.6	132.8	
132	100.7	74.2	111.2	
97	79.7	56.2	84.2	





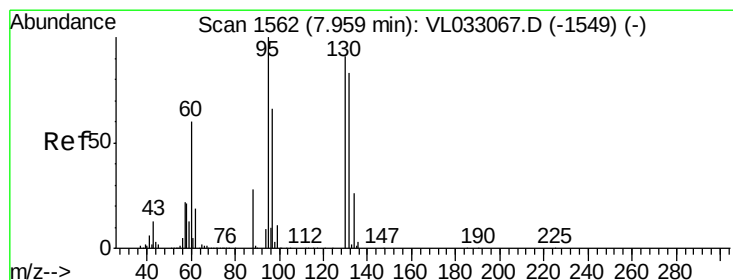
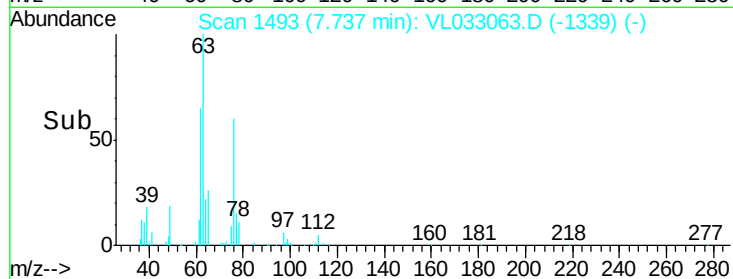
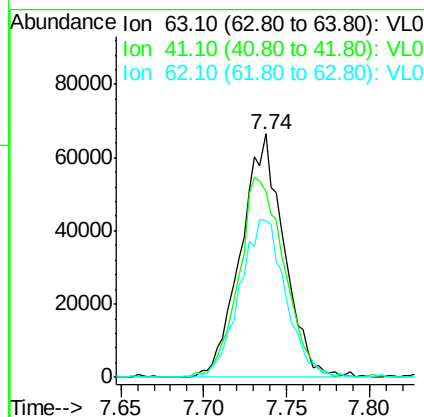
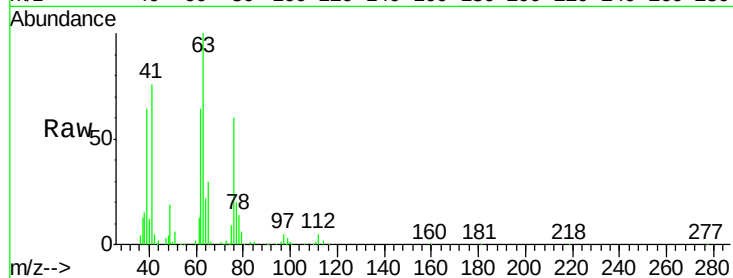
#39
 1,2-Dichloropropane
 Concen: 1.070 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.0	61.9	92.9
62	63.9	55.8	83.6

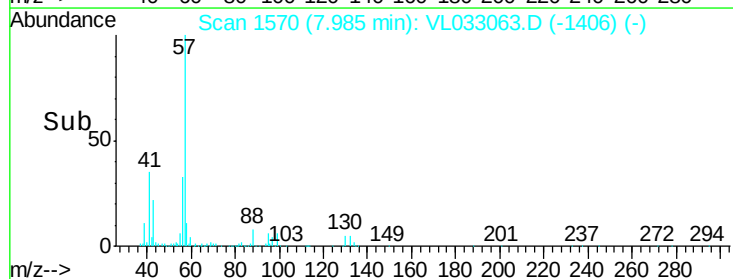
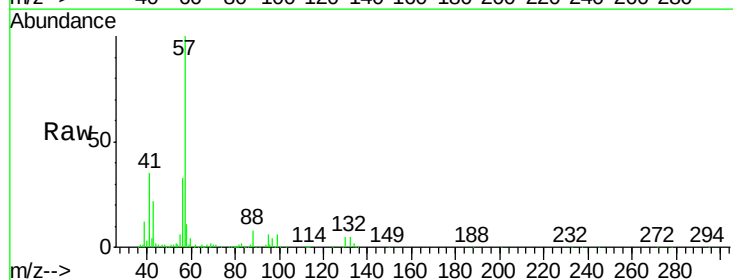
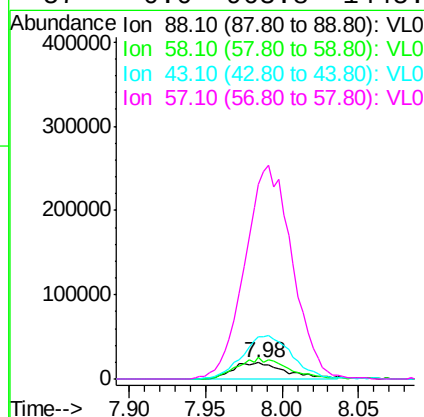
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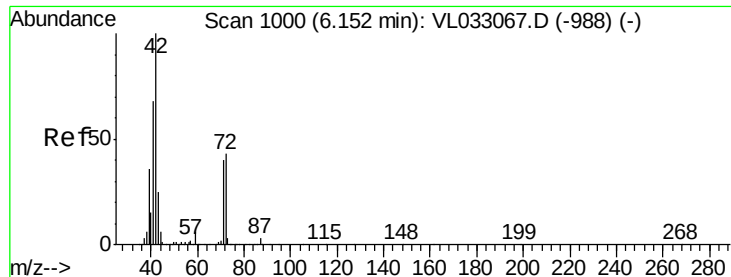
MMDadoda
 1/8/2019 12:01:05 AM



#40
 1,4-Dioxane
 Concen: 1.118 ppbv m
 RT: 7.98 min Scan# 1570
 Delta R.T. 0.03 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

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#





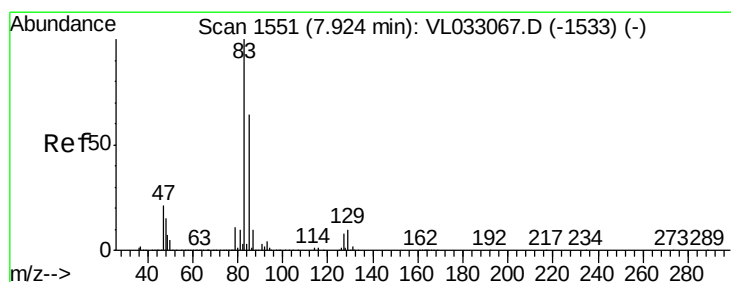
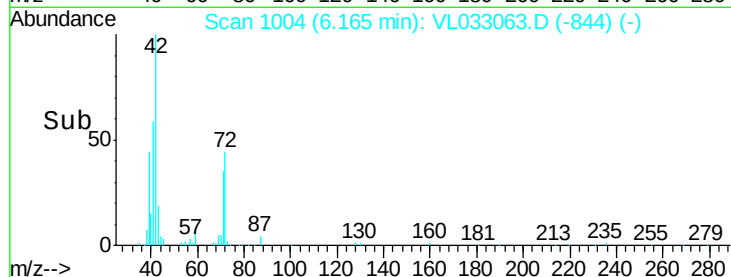
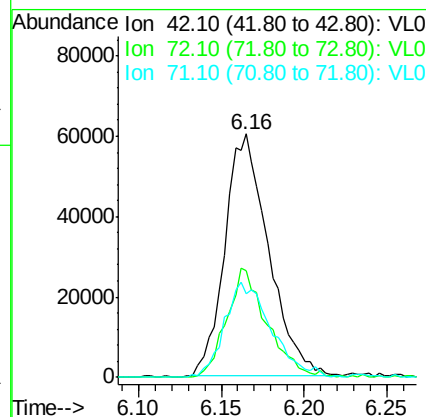
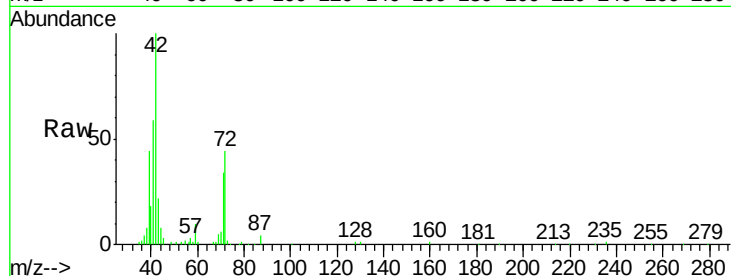
#41
Tetrahydrofuran
Concen: 1.023 ppbv
RT: 6.16 min Scan# 1004
Delta R.T. 0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	32.9	49.3
71	42.0	31.8	47.6

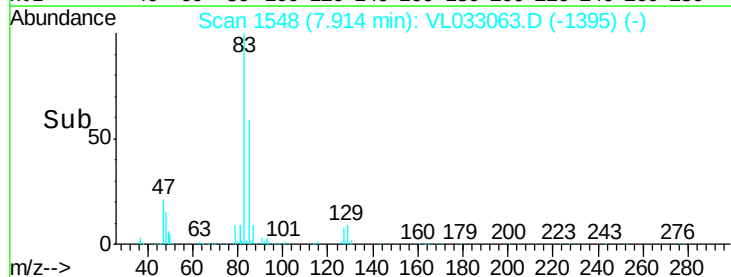
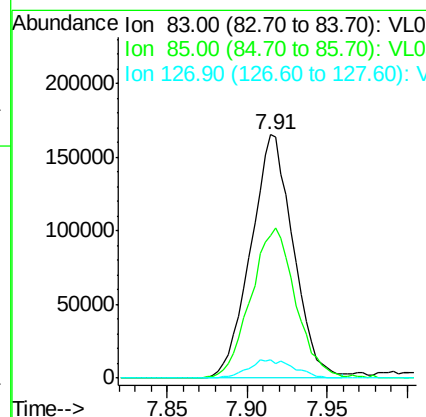
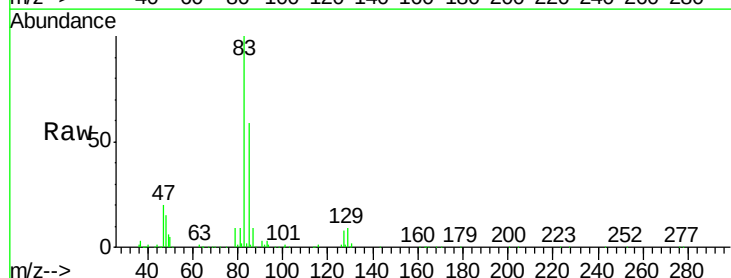
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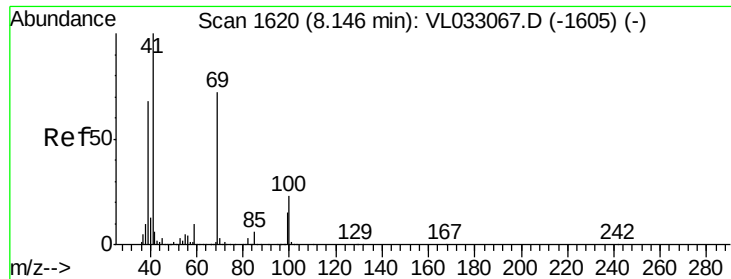
MMDadoda
1/8/2019 12:01:05 AM



#42
Bromodichloromethane
Concen: 1.035 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.7	51.0	76.4
127	7.8	6.5	9.7





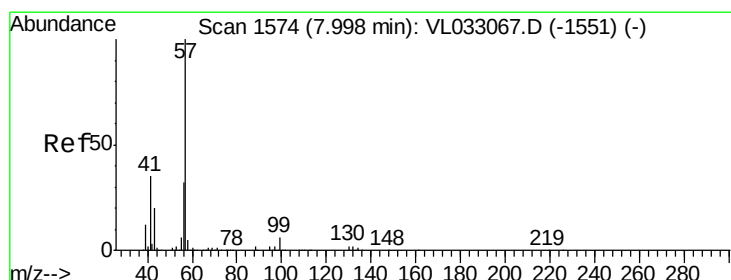
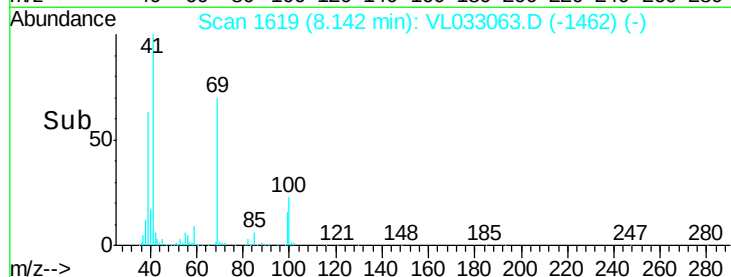
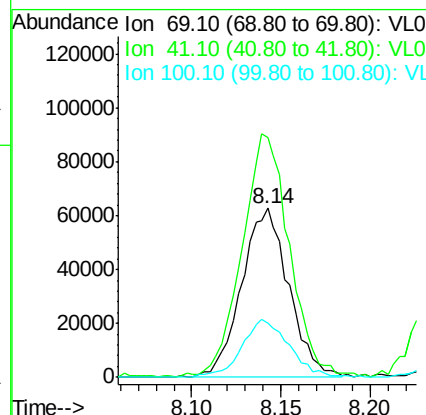
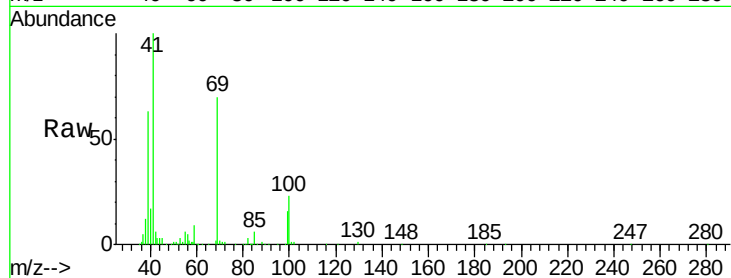
#43
Methvl Methacrylate
Concen: 1.027 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.3	114.0	171.0
100	35.0	26.3	39.5

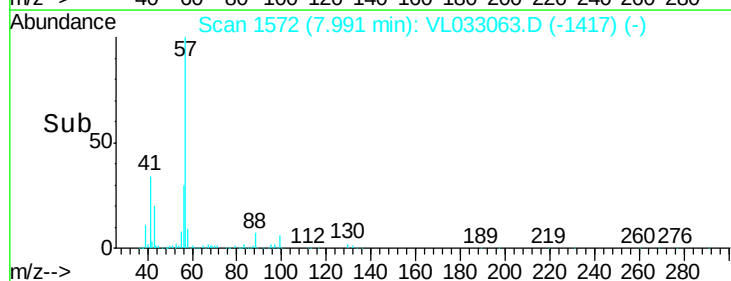
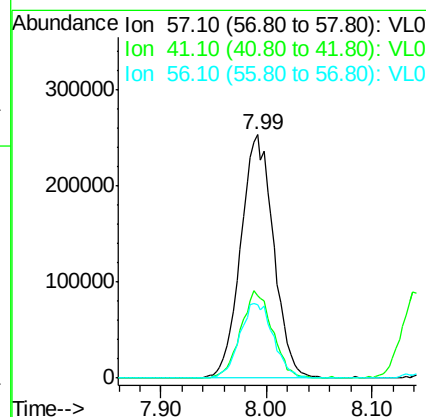
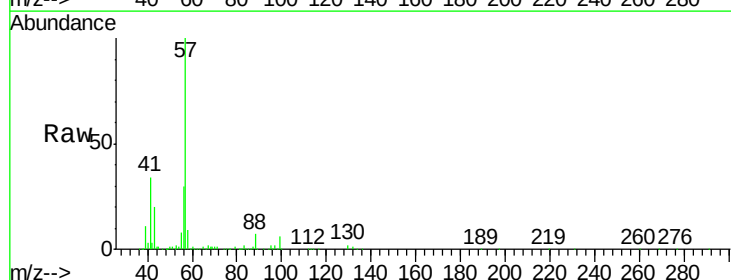
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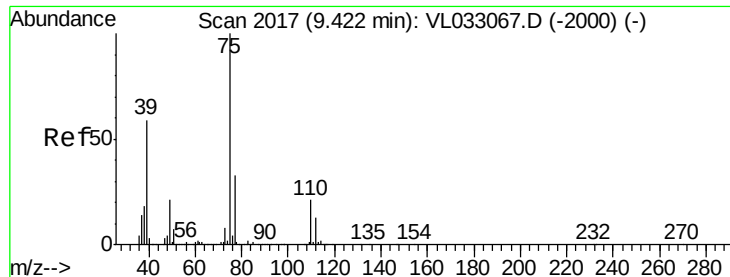
MMDadoda
1/8/2019 12:01:05 AM



#44
2,2,4-Trimethylpentane
Concen: 1.038 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.9	26.2	39.2
56	31.5	24.9	37.3





#45

t-1,3-Dichloropropene

Concen: 0.842 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 129318

Ion Ratio Lower Upper

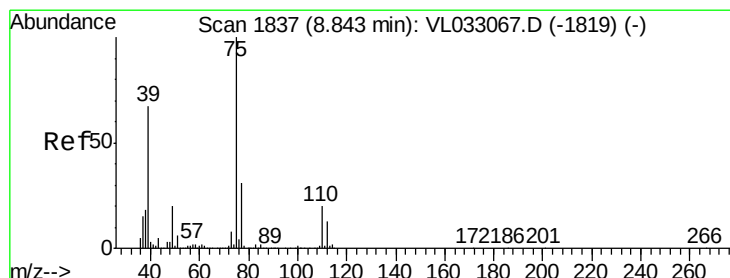
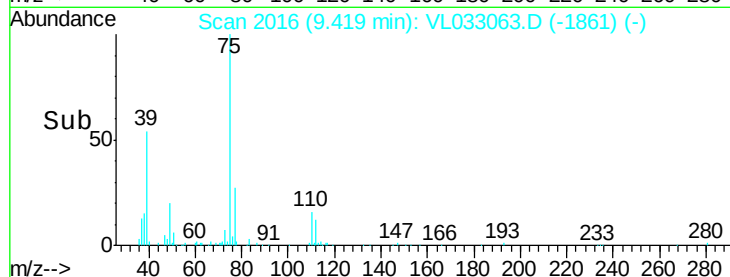
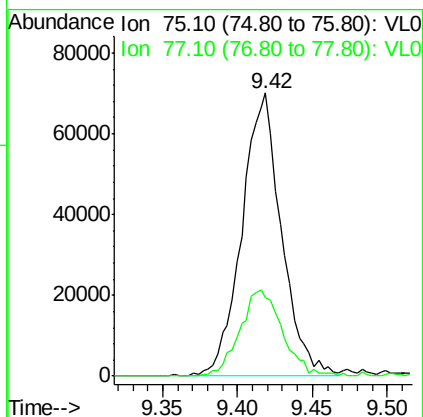
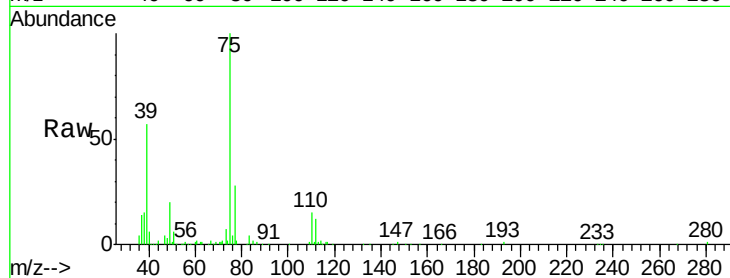
75 100

77 27.9 24.8 37.2

Manual Integrations
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1/8/2019 12:01:05 AM



#46

cis-1,3-Dichloropropene

Concen: 0.943 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

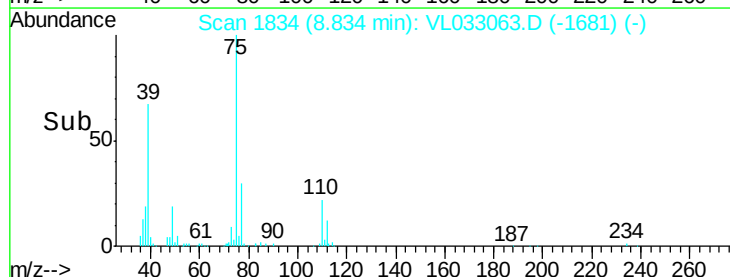
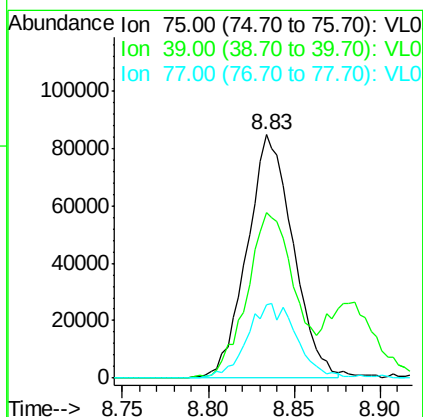
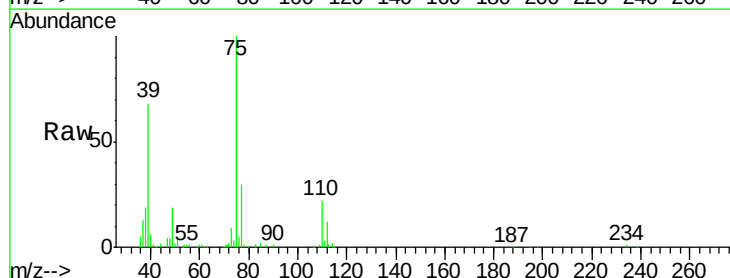
Tgt Ion: 75 Resp: 157372

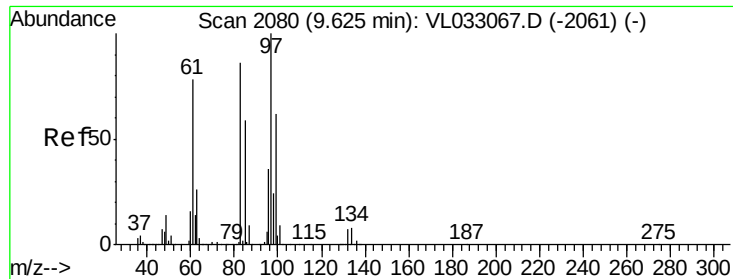
Ion Ratio Lower Upper

75 100

39 67.9 51.3 76.9

77 30.2 25.5 38.3





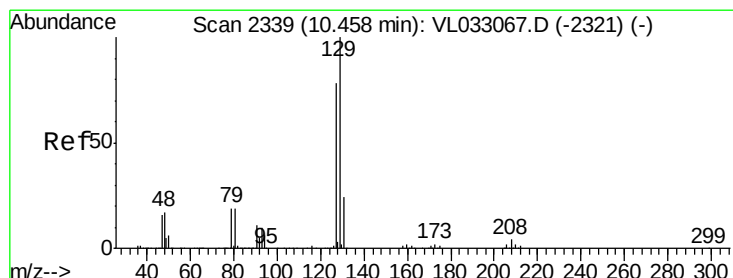
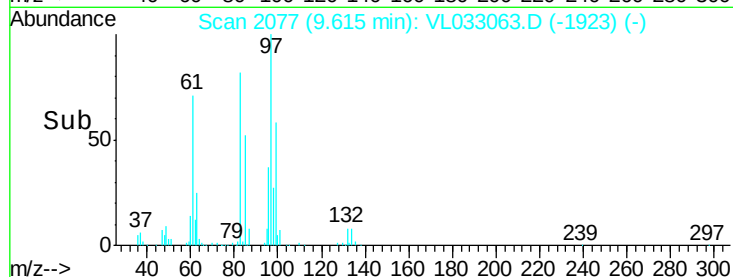
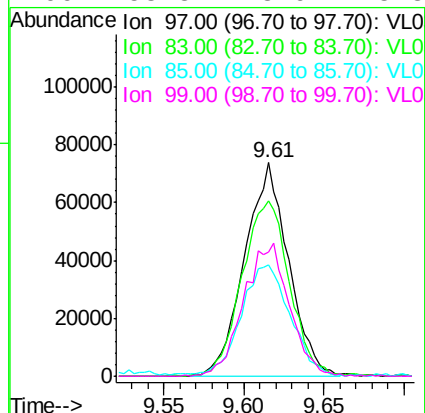
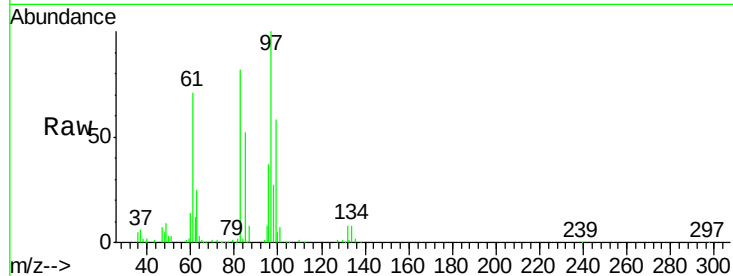
#47
 1,1,2-Trichloroethane
 Concen: 1.028 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
97	100		
83	81.4	69.4	104.2
85	51.9	44.2	66.2
99	58.3	48.9	73.3

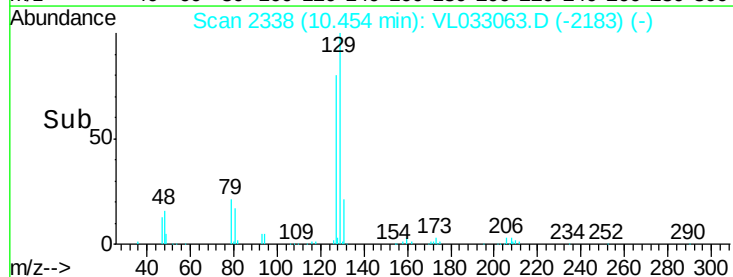
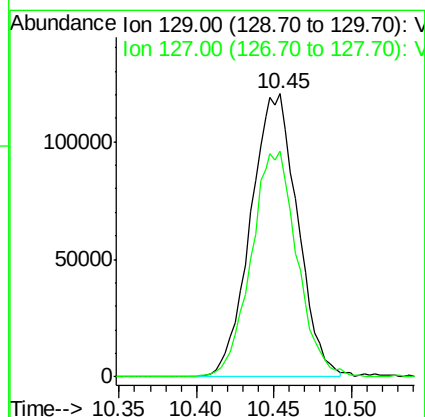
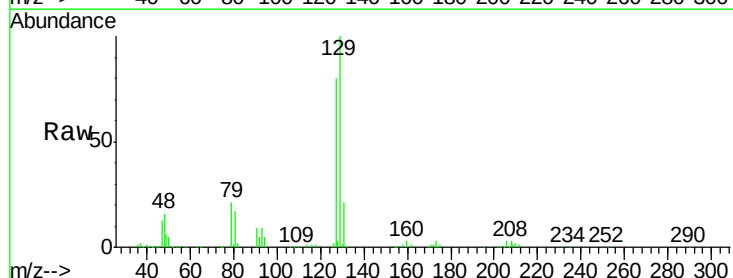
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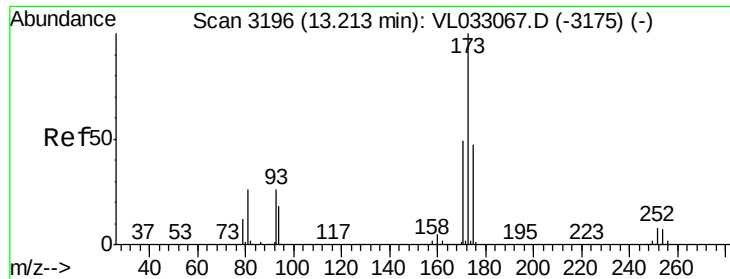
MMDadoda
 1/8/2019 12:01:05 AM



#48
 Dibromochloromethane
 Concen: 1.136 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.3





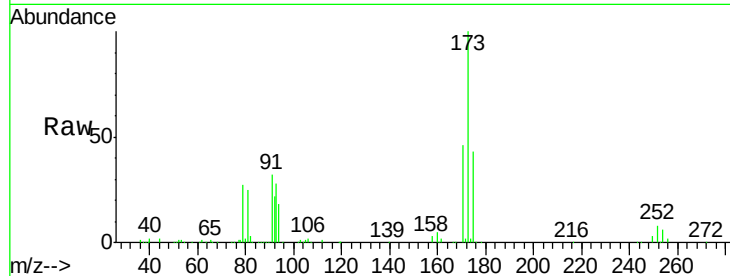
#49
Bromoform
Concen: 1.033 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

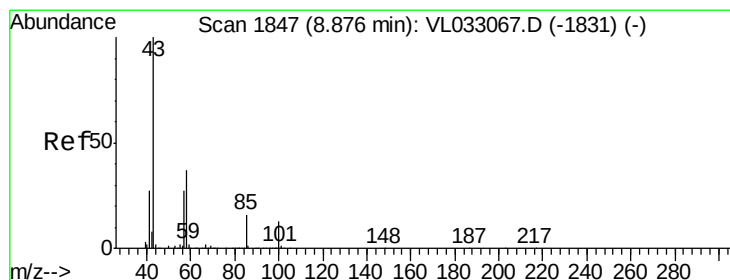
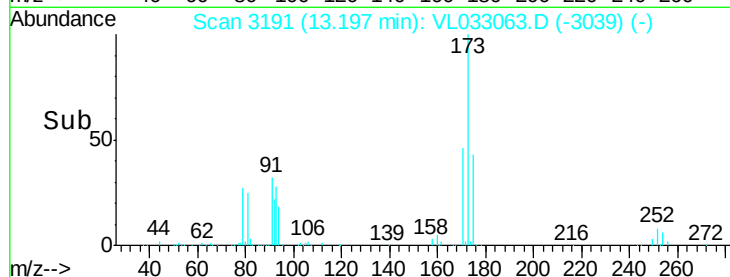
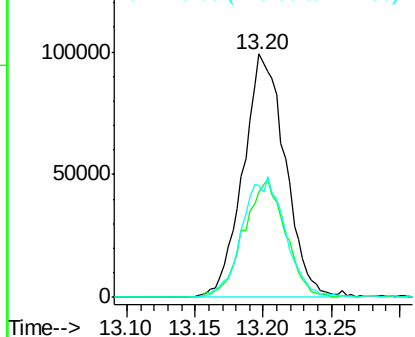
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	39.4	59.2
171	50.7	42.1	63.1

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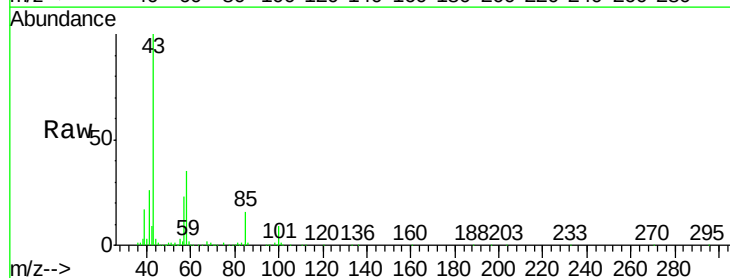


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

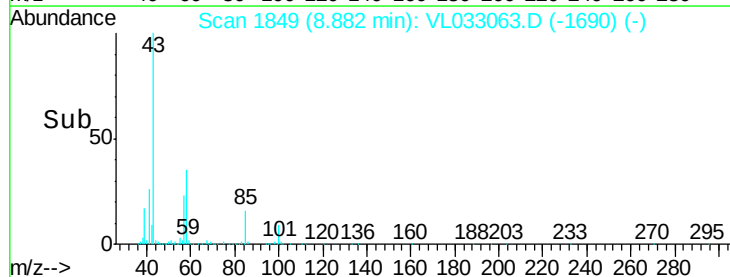
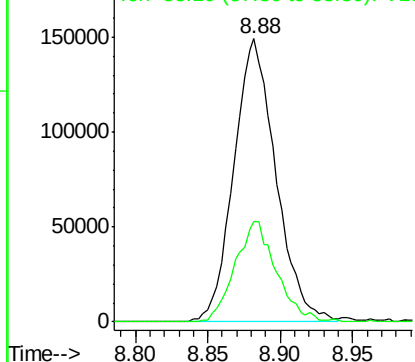


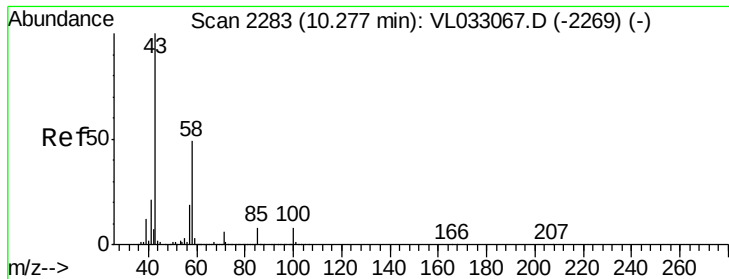
#50
4-Methyl-2-Pentanone
Concen: 1.059 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.9	28.9	43.3



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





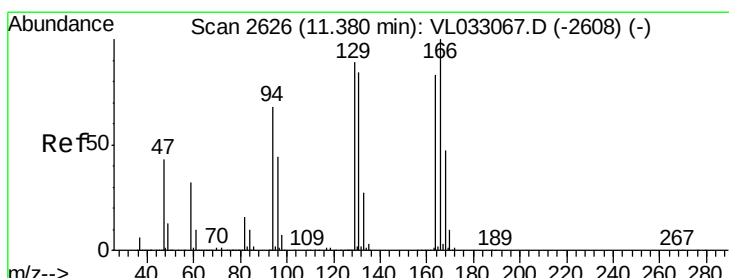
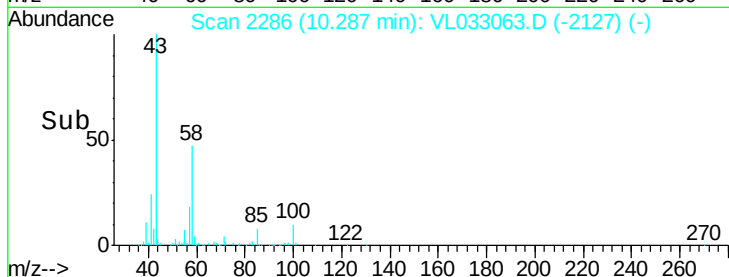
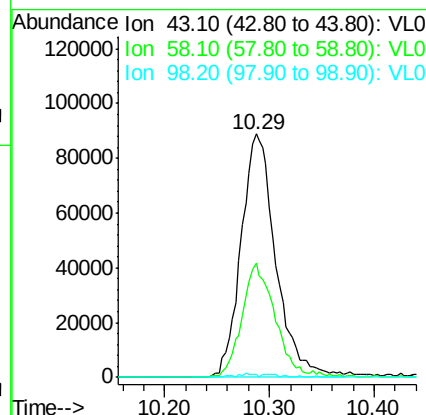
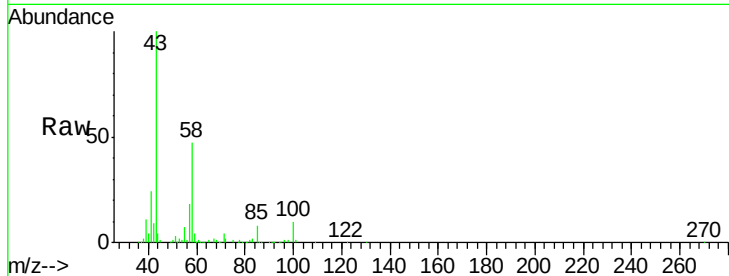
#51
2-Hexanone
Concen: 1.067 ppbv m
RT: 10.29 min Scan# 2286
Delta R.T. 0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.4	39.0	58.6
98	1.5	0.4	0.6

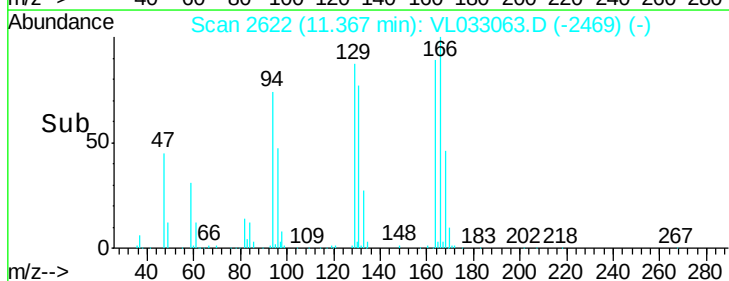
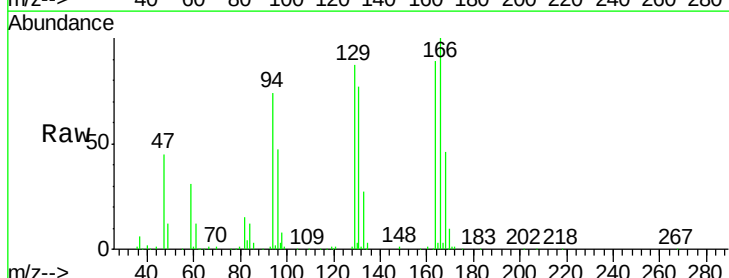
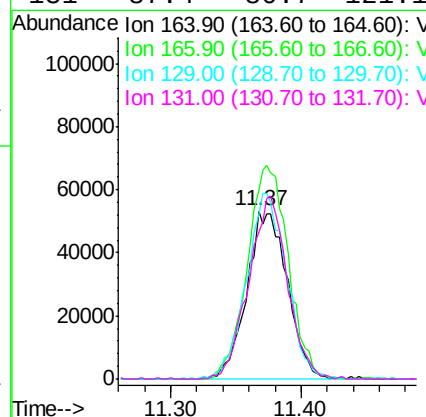
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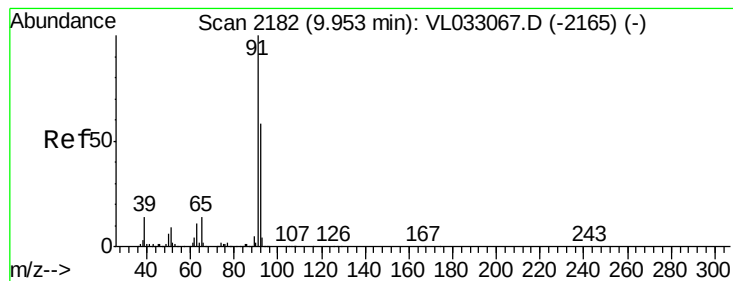
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#52
Tetrachloroethene
Concen: 1.065 ppbv m
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.0	100.8	151.2
129	98.6	84.6	126.8
131	87.4	80.7	121.1





#53

Toluene

Concen: 1.063 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 325956

Ion Ratio Lower Upper

91 100

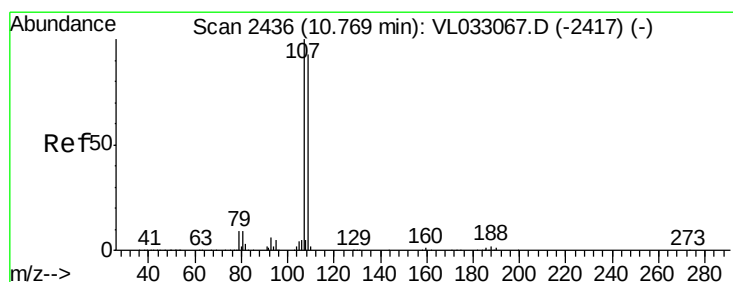
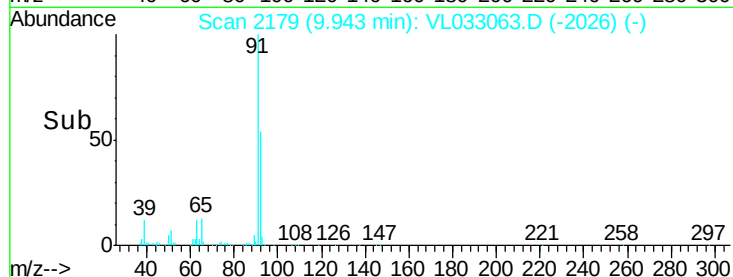
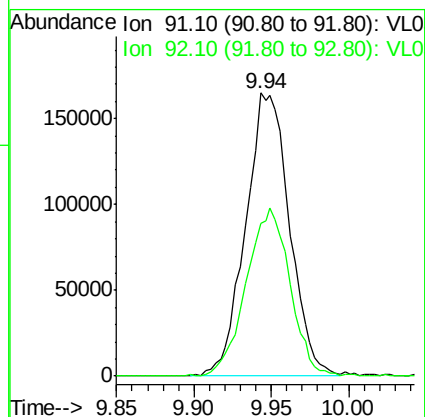
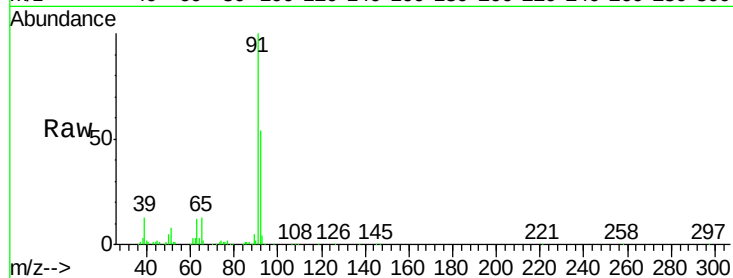
92 59.3 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 1.036 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033063.D

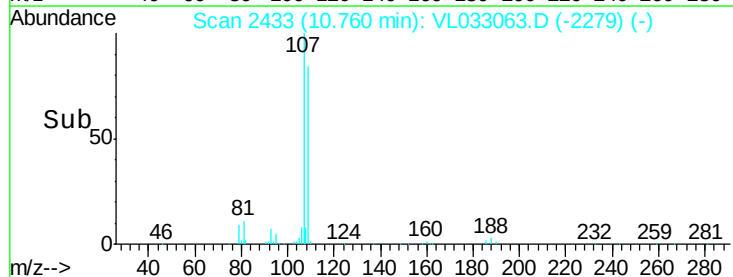
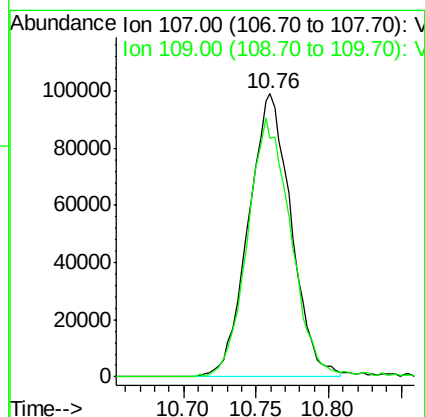
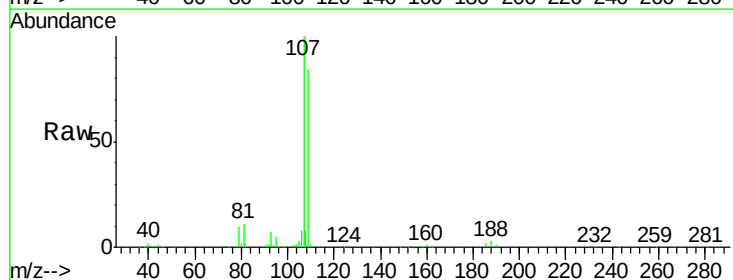
Acq: 4 Jan 2019 10:43

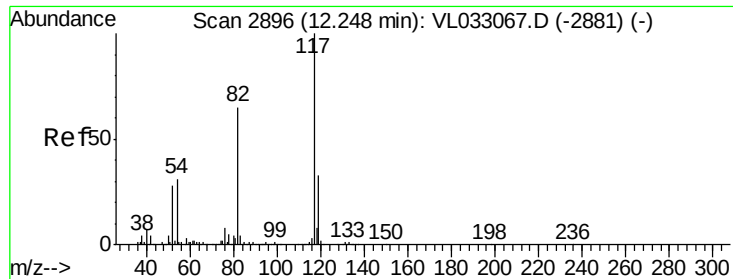
Tgt Ion: 107 Resp: 203143

Ion Ratio Lower Upper

107 100

109 84.1 74.9 112.3





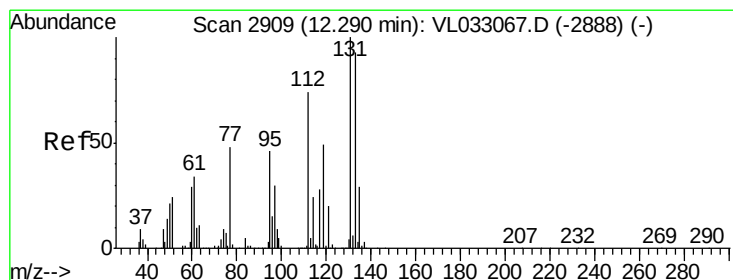
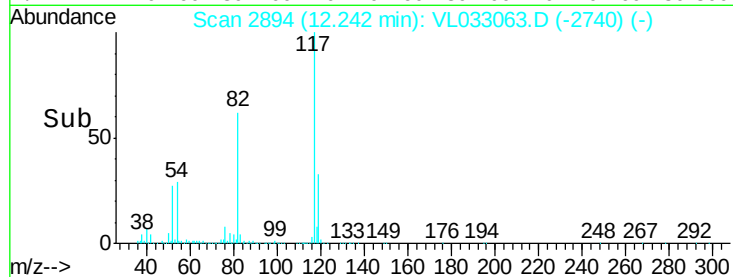
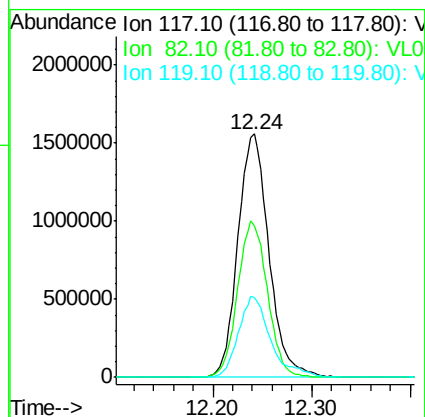
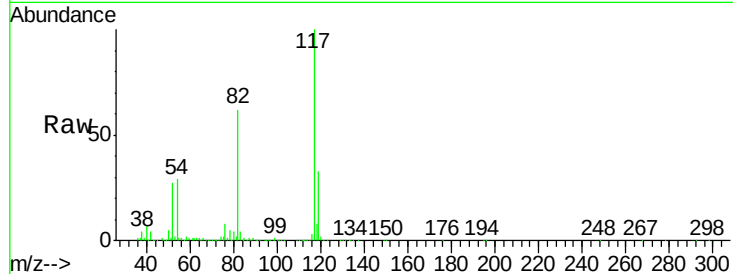
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:117 Resp: 3415338
Ion Ratio Lower Upper
117 100
82 62.0 48.9 73.3
119 34.7 24.6 37.0

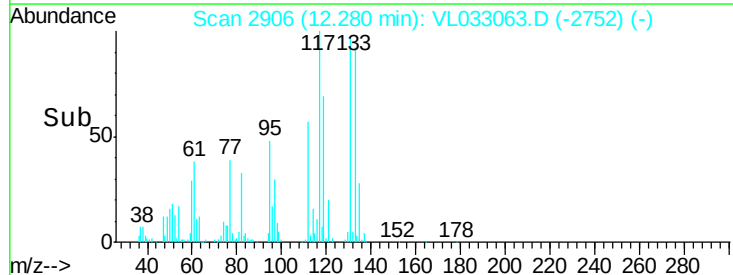
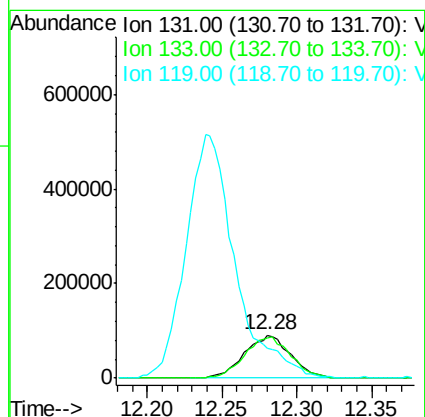
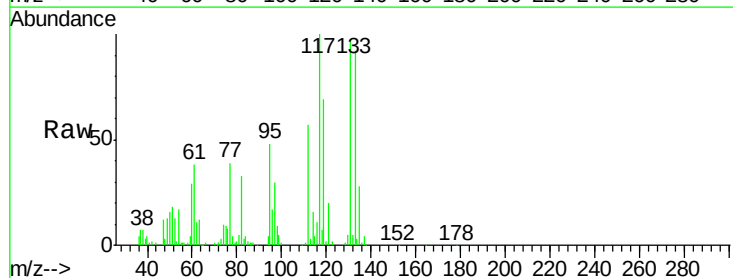
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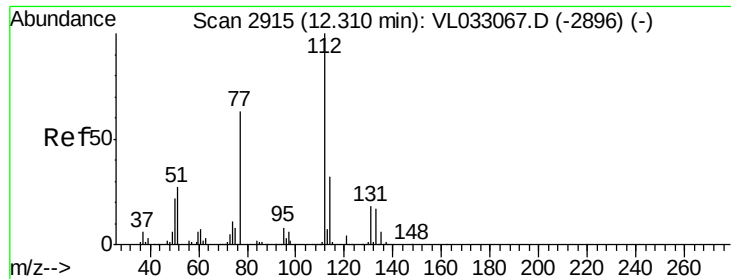
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.123 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion:131 Resp: 194048
Ion Ratio Lower Upper
131 100
133 97.2 76.0 114.0
119 609.2 44.2 66.2#





#57

Chlorobenzene

Concen: 1.140 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

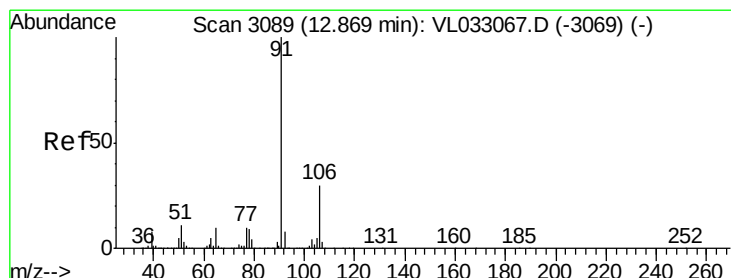
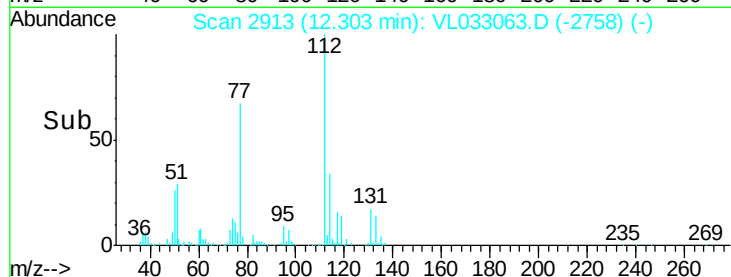
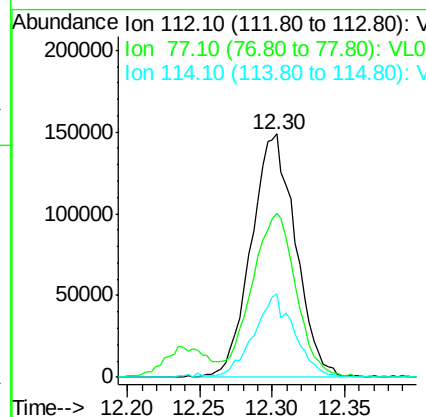
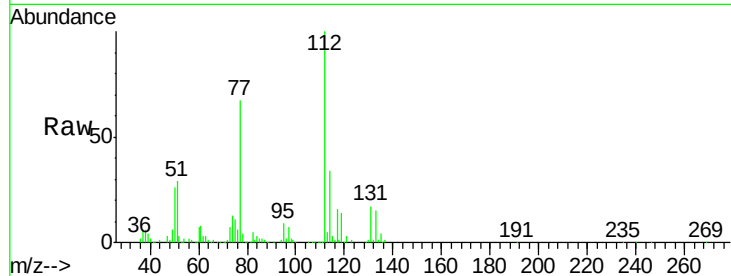
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	315799
Ion Ratio	Lower	Upper	
112	100		
77	66.7	53.4	80.0
114	34.7	30.0	36.6

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#58

Ethyl Benzene

Concen: 1.051 ppbv

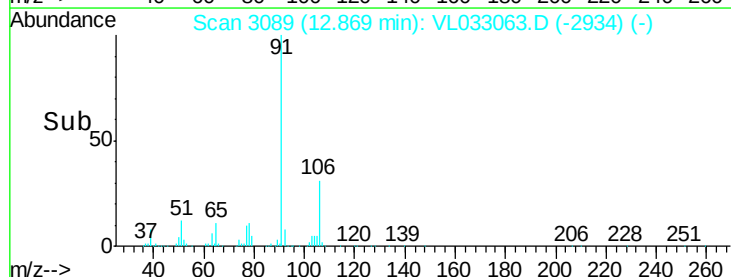
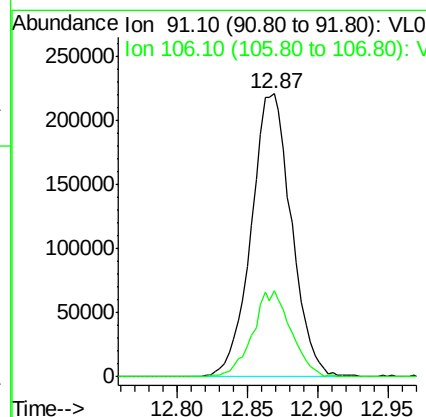
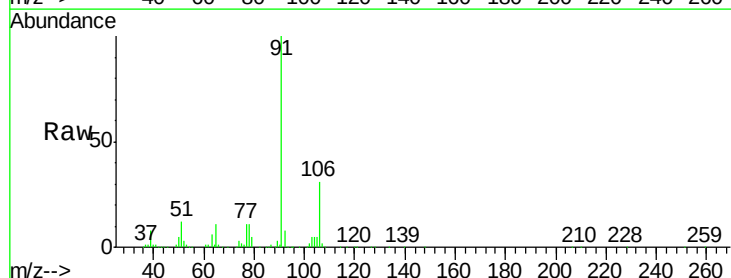
RT: 12.87 min Scan# 3089

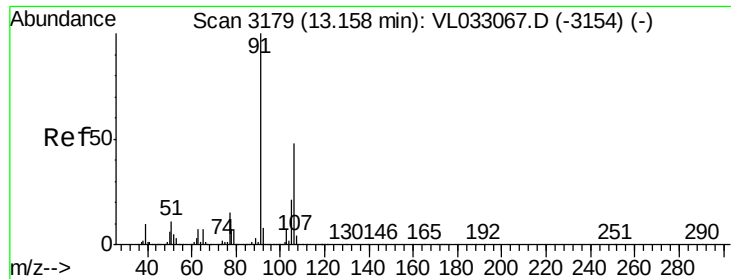
Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Tgt Ion:	91	Resp:	441623
Ion Ratio	Lower	Upper	
91	100		
106	30.5	24.3	36.5





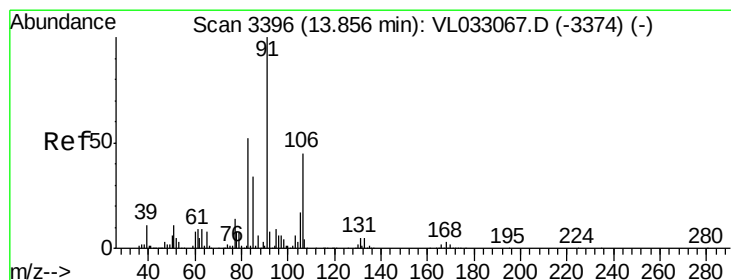
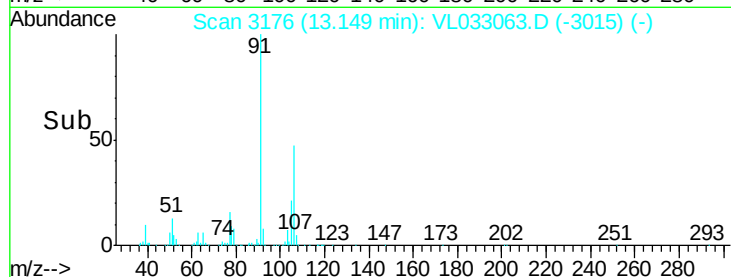
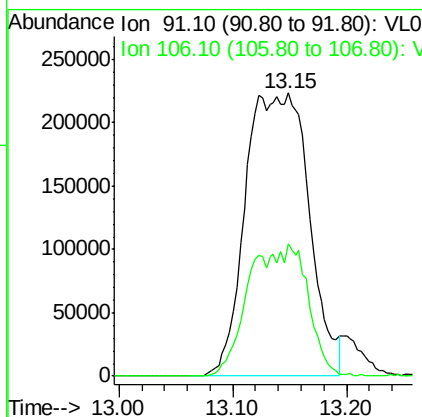
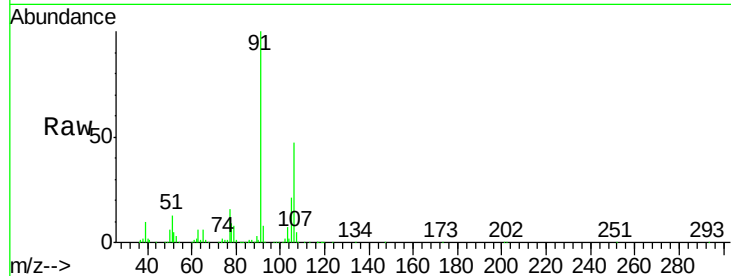
#59
m/p-Xylene
Concen: 2.214 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.02 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

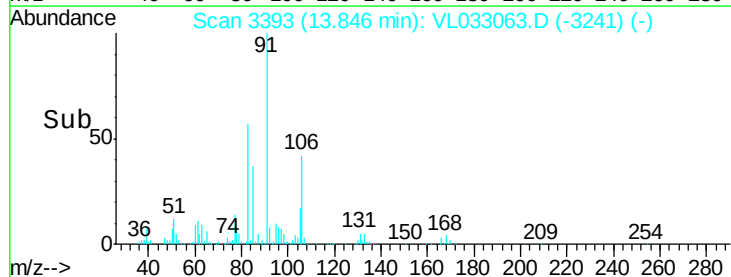
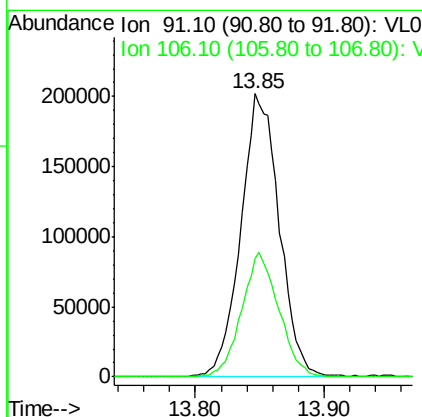
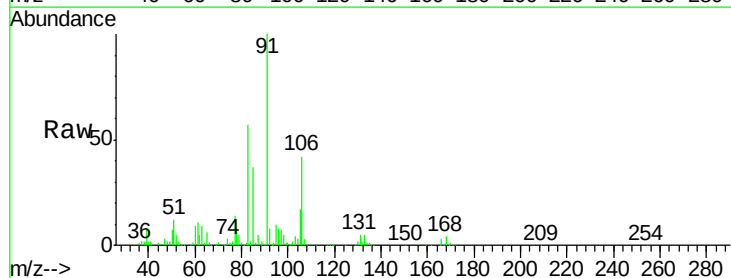
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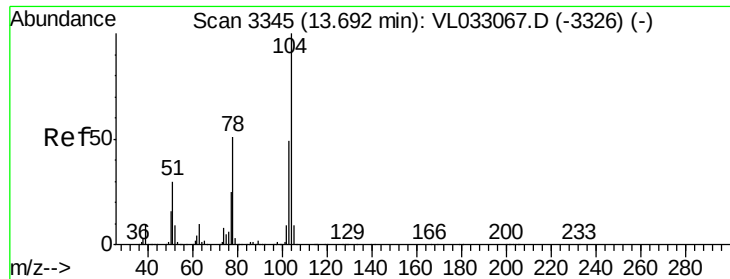
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#60
o-Xylene
Concen: 1.097 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033063.D
Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.5	22.1	66.5





#61

Stvrene

Concen: 0.987 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

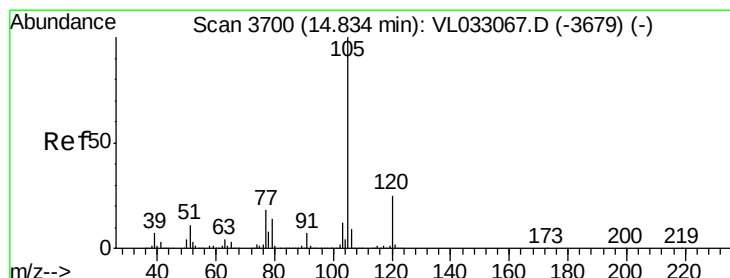
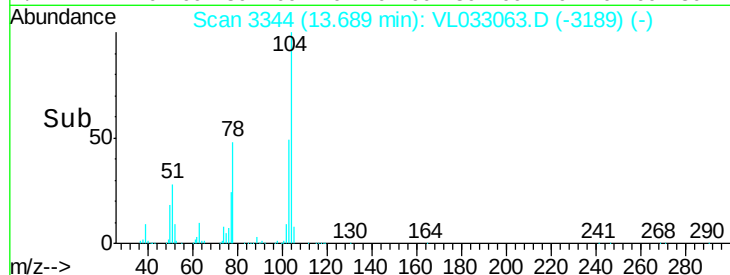
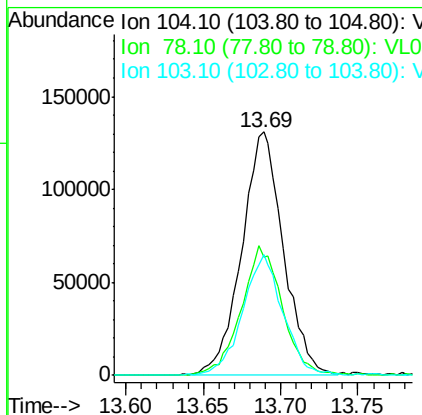
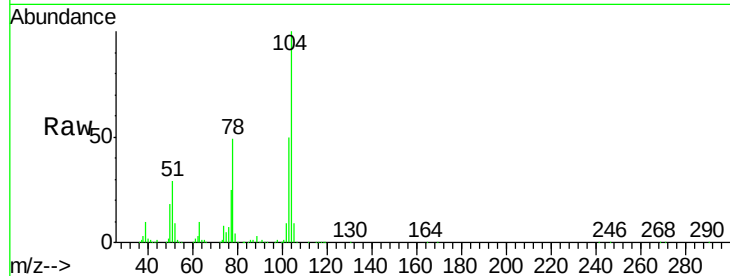
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.6	62.4
103	48.7	38.1	57.1

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1/8/2019 12:01:05 AM



#62

Isopropylbenzene

Concen: 1.103 ppbv

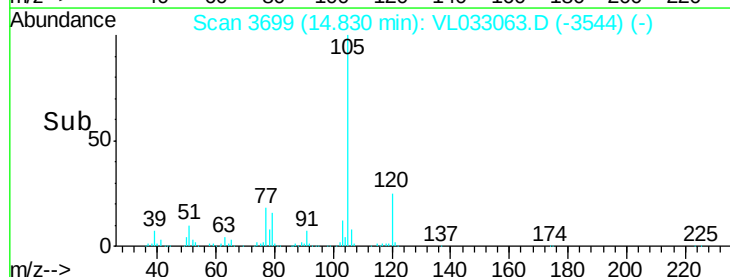
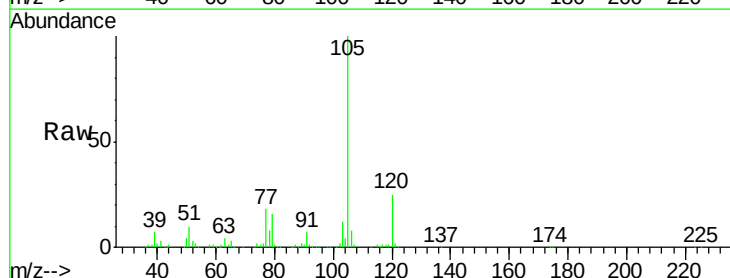
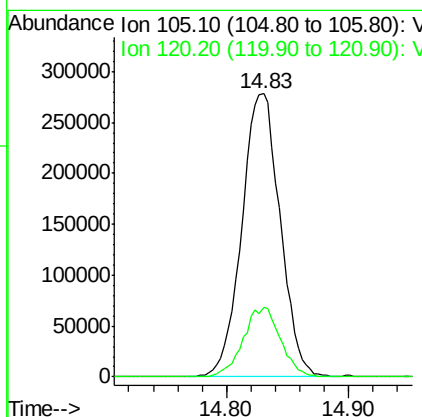
RT: 14.83 min Scan# 3699

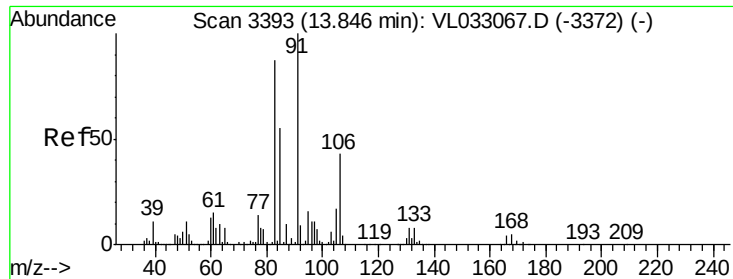
Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.0	20.4	30.6





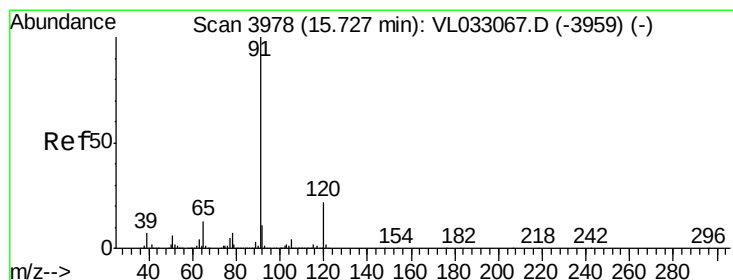
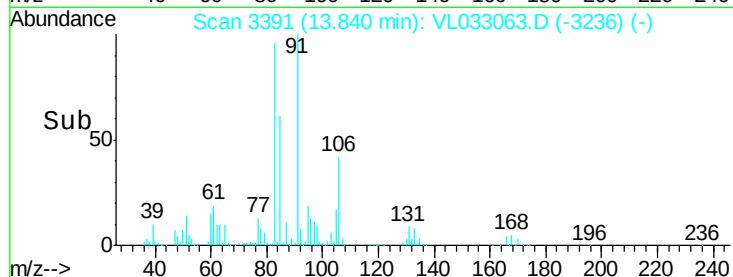
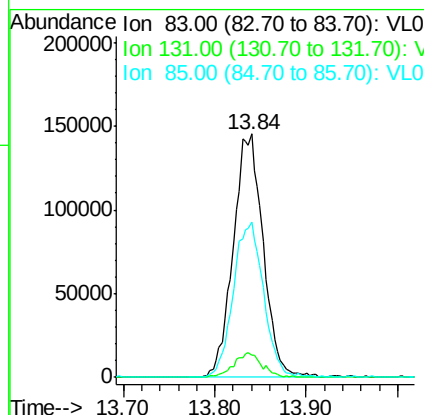
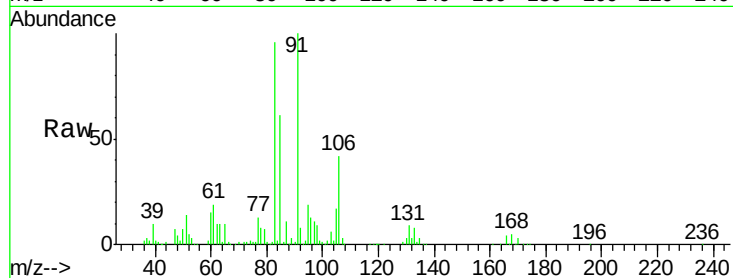
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.109 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. -0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	64.3	32.6	97.8

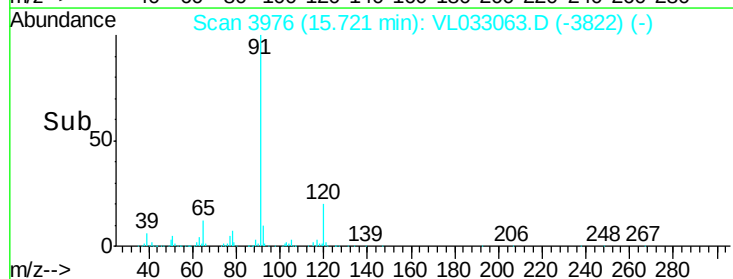
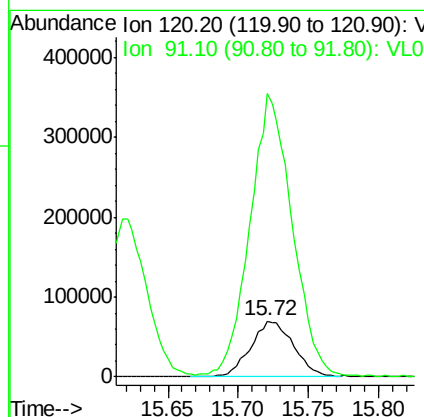
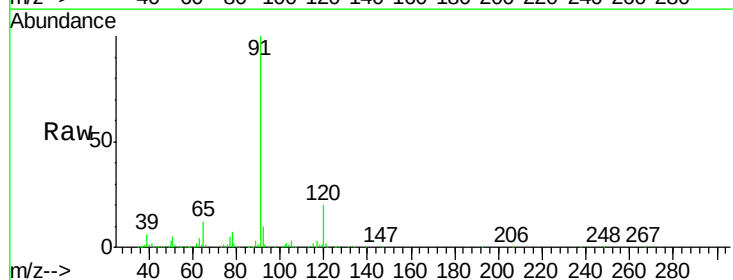
Manual Integrations
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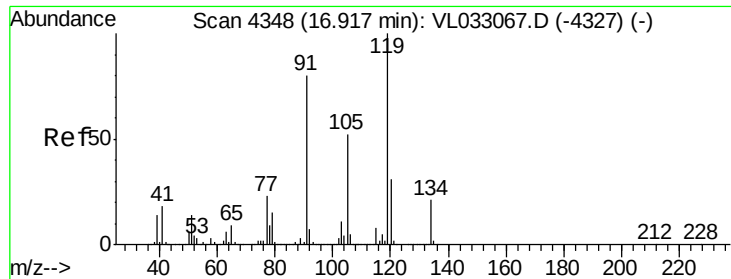
MMDadoda
 1/8/2019 12:01:05 AM



#64
 n-propylbenzene
 Concen: 1.108 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
120	100		
91	496.5	378.7	568.1





#65

tert-Butylbenzene

Concen: 1.077 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

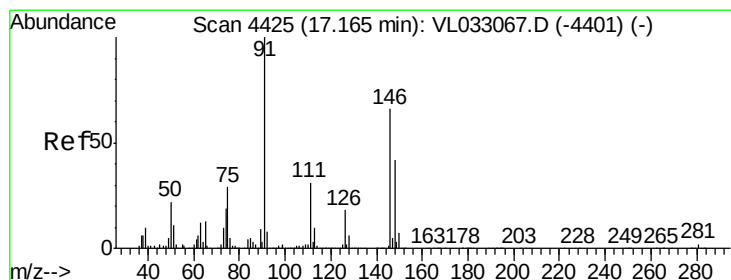
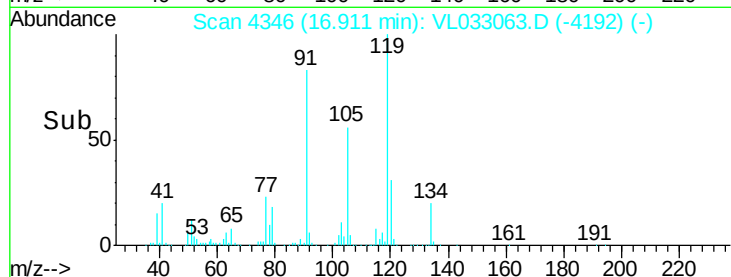
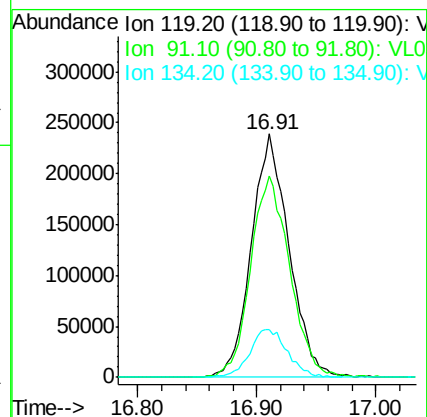
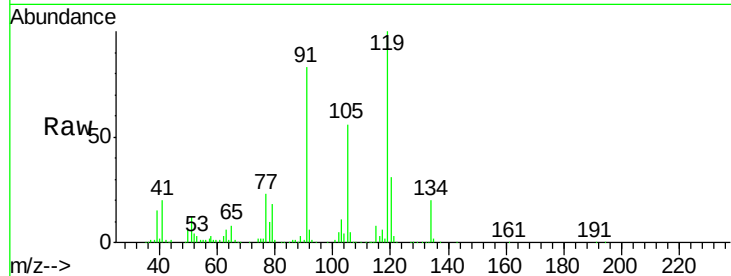
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	522251
Ion Ratio	Lower	Upper	
119	100		
91	86.9	64.6	97.0
134	19.8	15.8	23.8

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#66

Benzyl Chloride

Concen: 0.998 ppbv

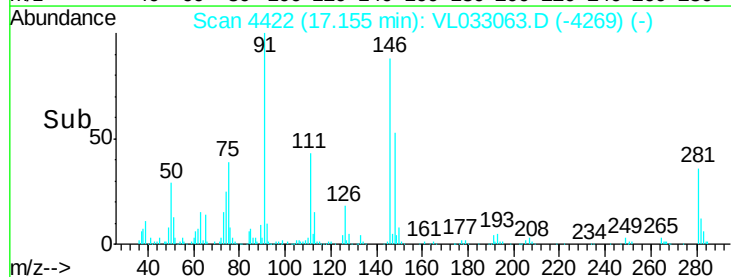
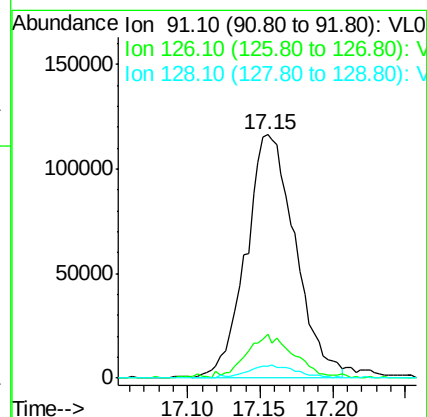
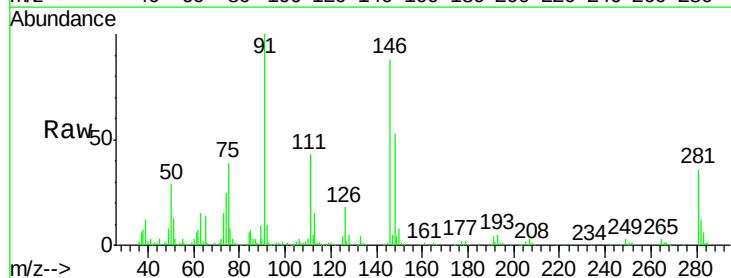
RT: 17.15 min Scan# 4422

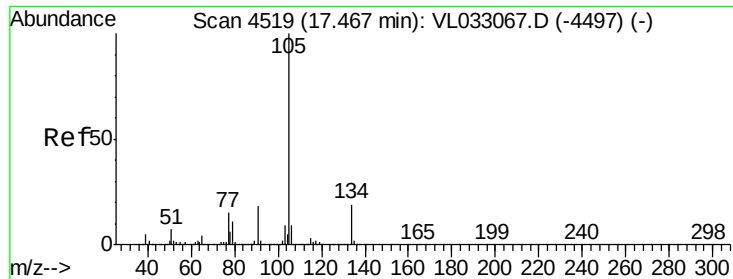
Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Tgt Ion:	91	Resp:	272132
Ion Ratio	Lower	Upper	
91	100		
126	18.5	14.4	21.6
128	5.5	4.5	6.7





#67

sec-Butylbenzene

Concen: 1.098 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 751053

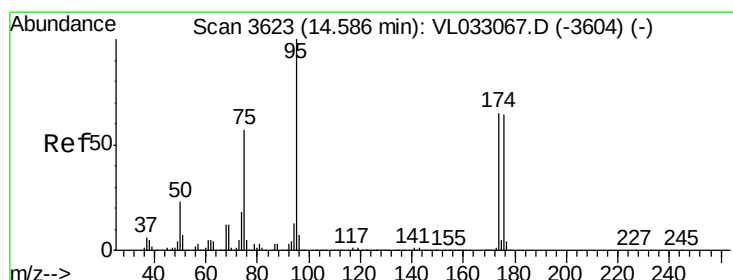
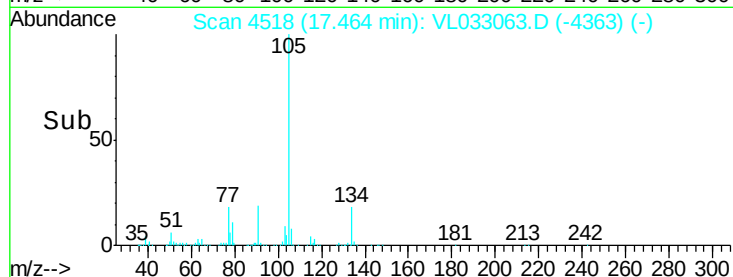
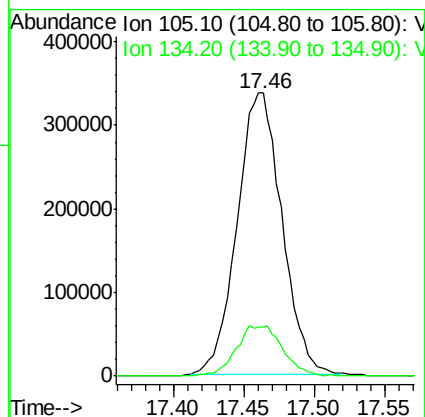
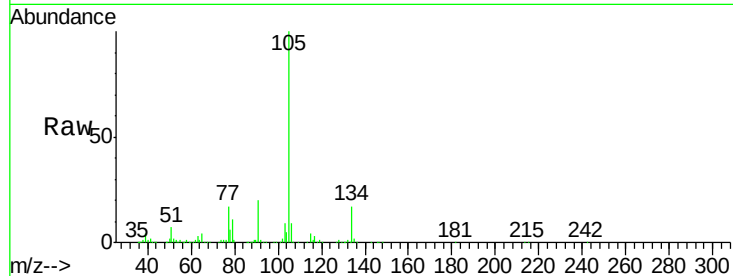
Ion Ratio Lower Upper

105 100

134 18.6 14.6 21.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.112 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

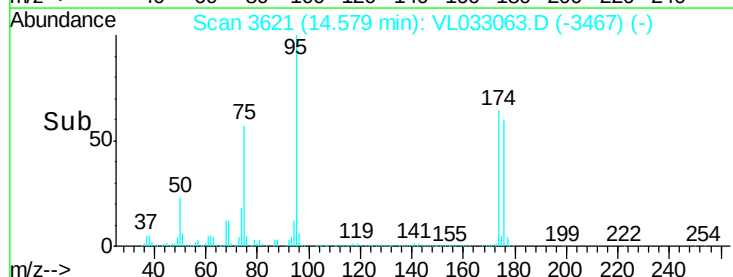
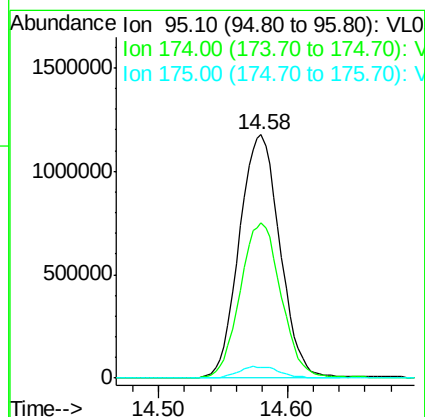
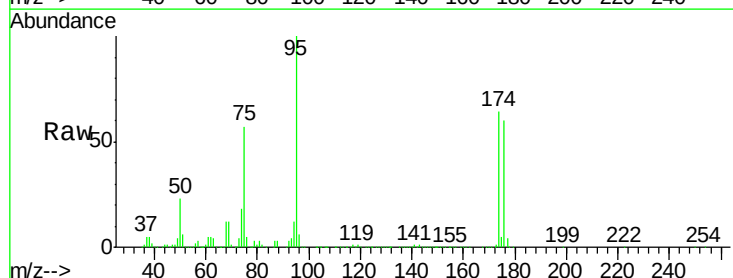
Tgt Ion: 95 Resp: 2575794

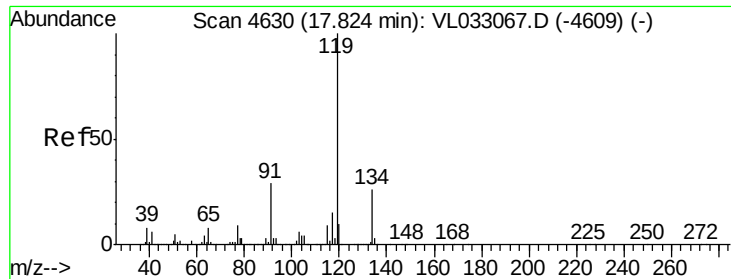
Ion Ratio Lower Upper

95 100

174 65.1 51.9 77.9

175 4.8 3.9 5.9





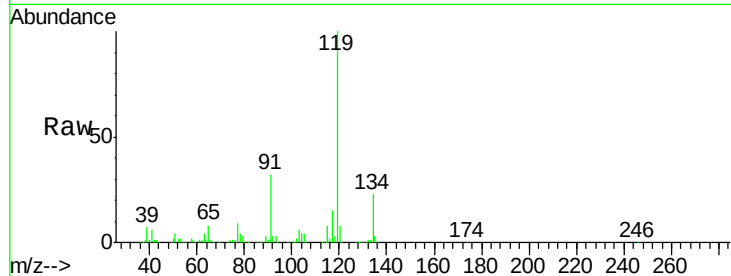
#69
 p-Isopropyltoluene
 Concen: 1.098 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

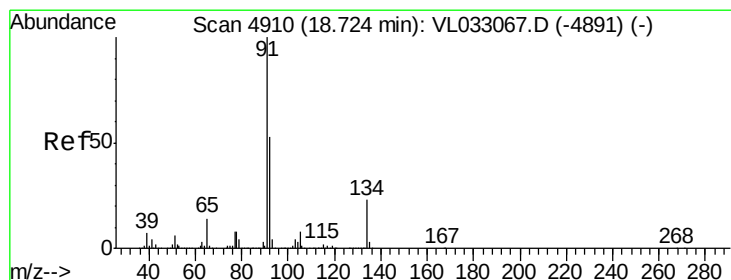
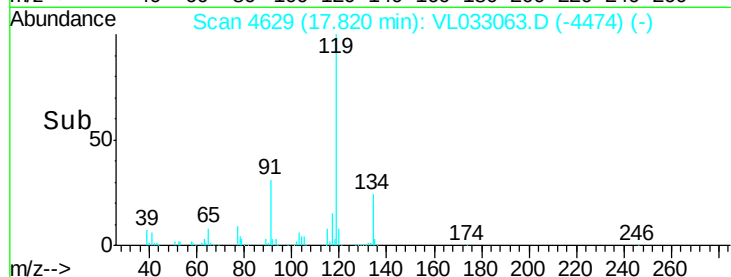
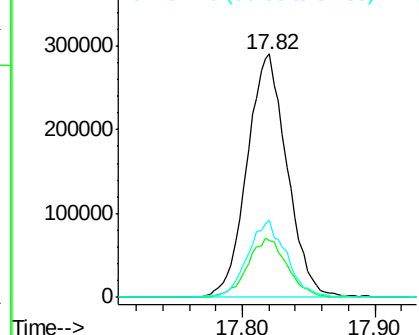
Tot Ion	Ratio	Resp	Lower	Upper
119	100	607099		
134	24.4		20.1	30.1
91	30.8		23.0	34.4

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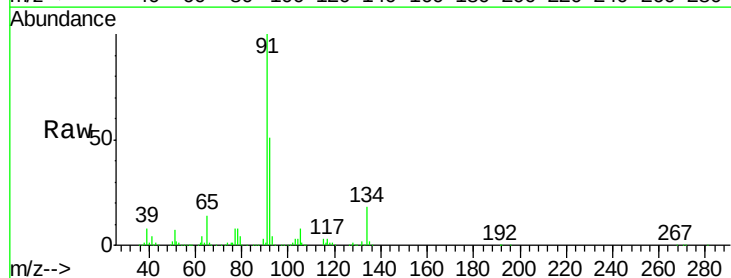


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

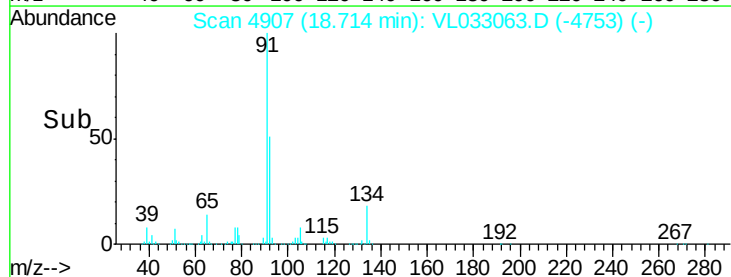
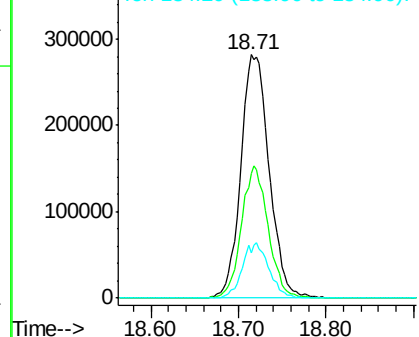


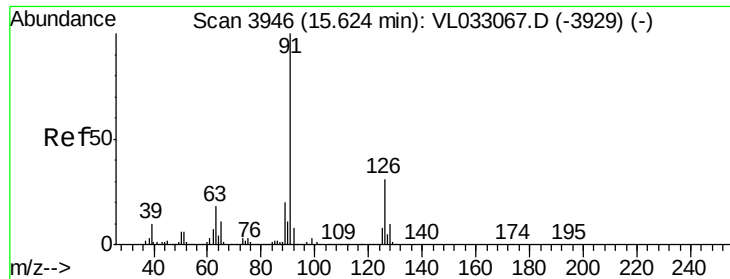
#70
 n-Butylbenzene
 Concen: 1.123 ppbv m
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	634146		
92	0.0		42.4	63.6#
134	0.0		18.0	27.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





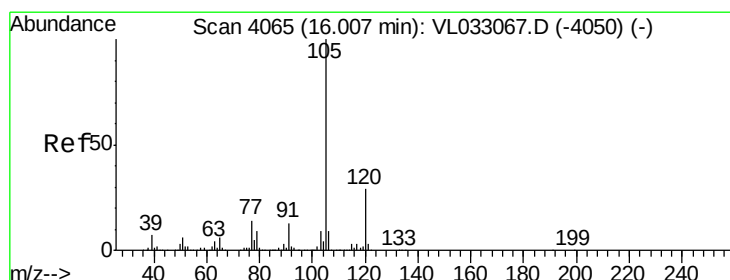
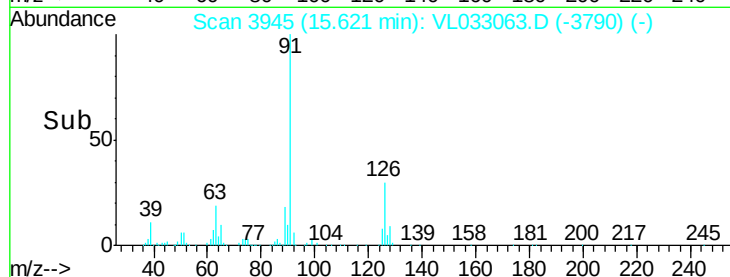
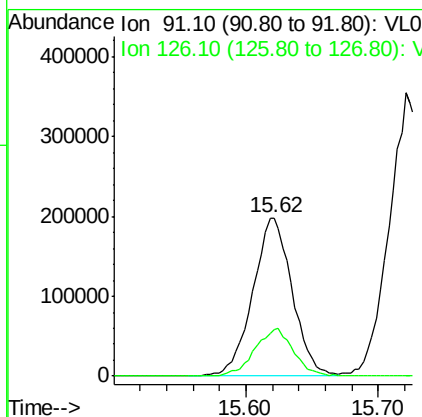
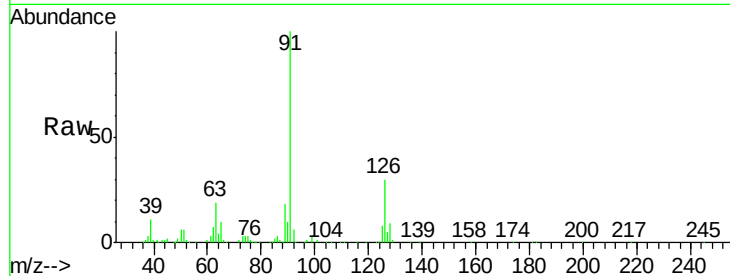
#71
 2-Chlorotoluene
 Concen: 1.064 ppbv
 RT: 15.62 min Scan# 3945
 Delta R.T. -0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 91 Resp: 410513
 Ion Ratio Lower Upper
 91 100
 126 29.6 12.4 49.6

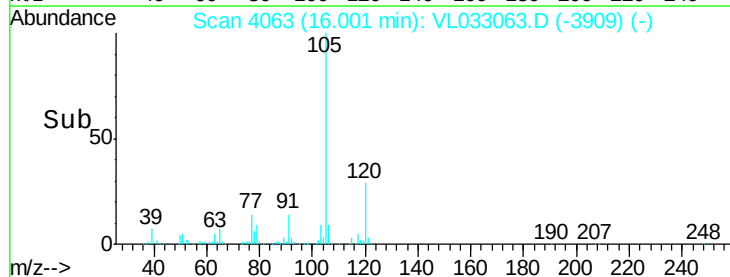
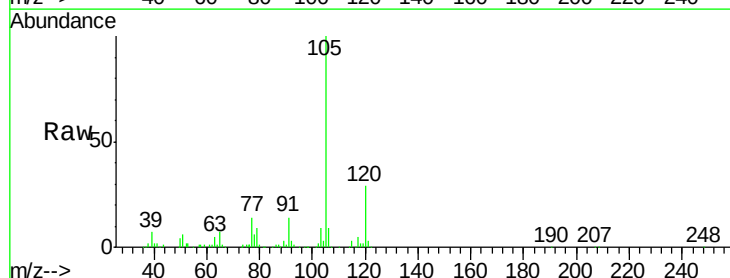
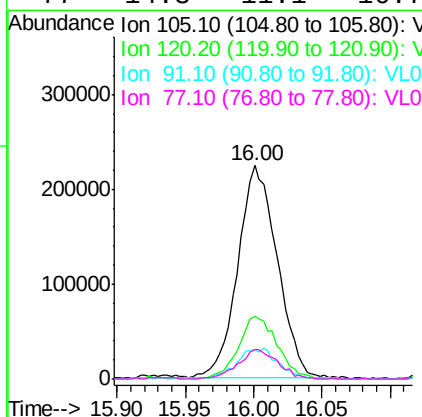
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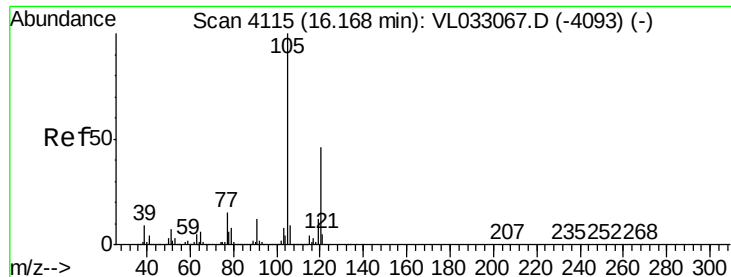
MMDadoda
 1/8/2019 12:01:05 AM



#72
 4-Ethyltoluene
 Concen: 1.057 ppbv
 RT: 16.00 min Scan# 4063
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion: 105 Resp: 449019
 Ion Ratio Lower Upper
 105 100
 120 29.2 23.0 34.6
 91 15.4 10.3 15.5
 77 14.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 1.085 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 450158

Ion Ratio Lower Upper

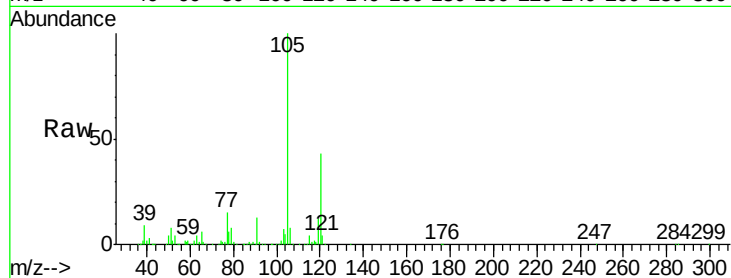
105 100

120 42.9 36.1 54.1

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

250000

200000

150000

100000

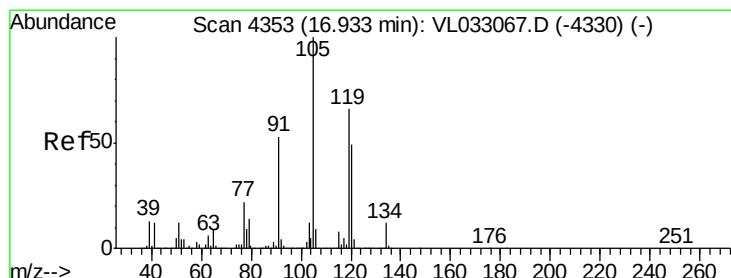
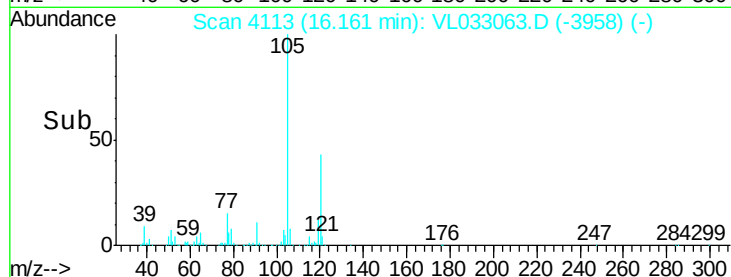
50000

0

16.10

16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.117 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Tgt Ion:105 Resp: 508985

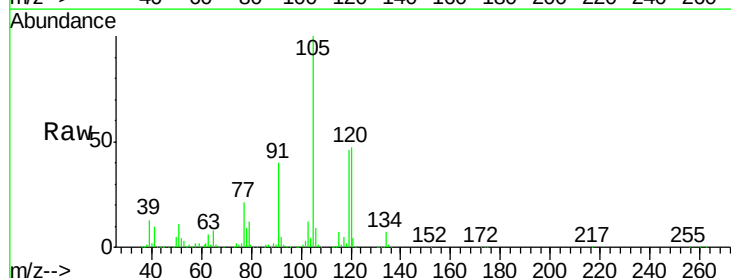
Ion Ratio Lower Upper

105 100

120 46.9 37.0 55.4

91 39.3 35.4 53.0

77 20.4 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): VL0

Ion 77.10 (76.80 to 77.80): VL0

300000

200000

100000

0

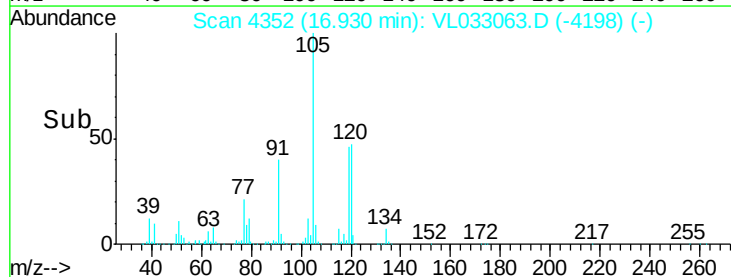
16.85

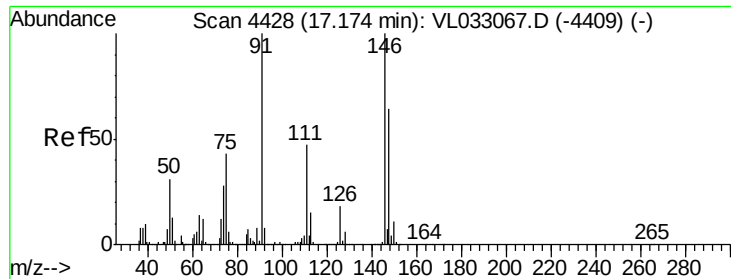
16.90

16.95

17.00

Time-->





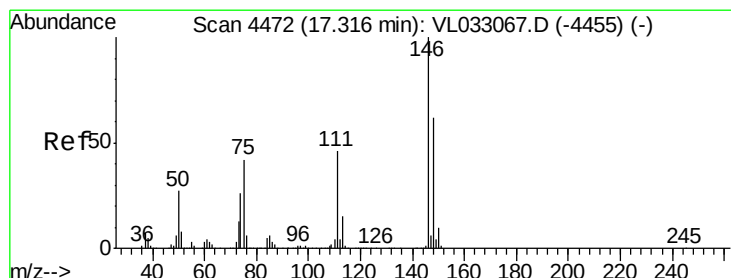
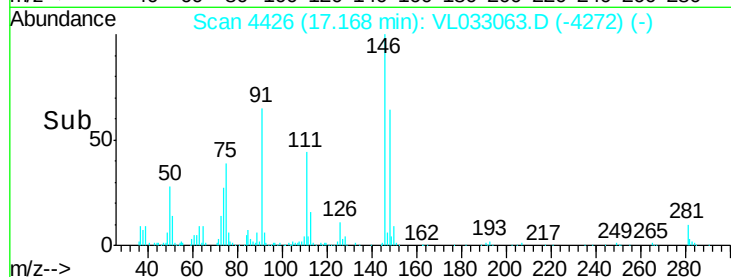
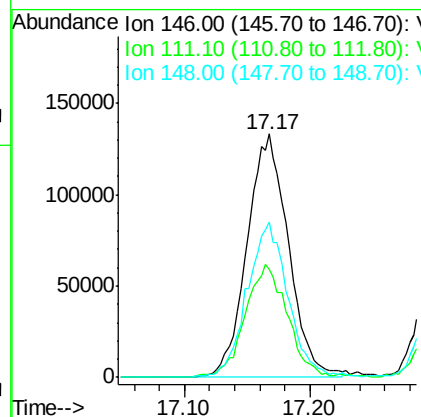
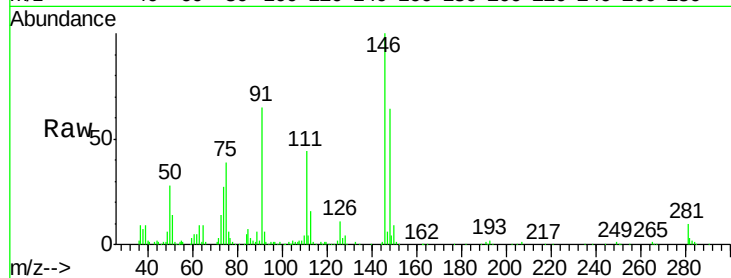
#75
 1,3-Dichlorobenzene
 Concen: 1.141 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.1	23.4	70.2
148	63.4	32.1	96.3

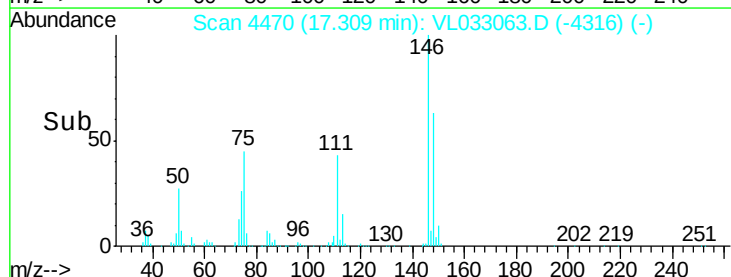
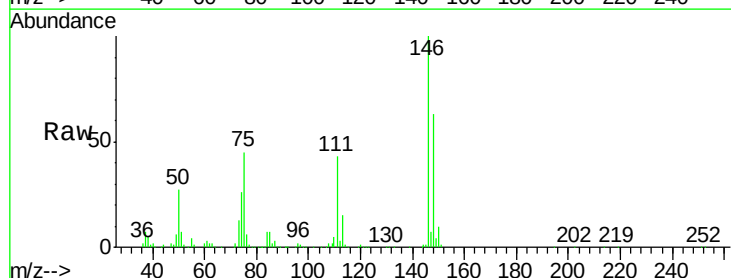
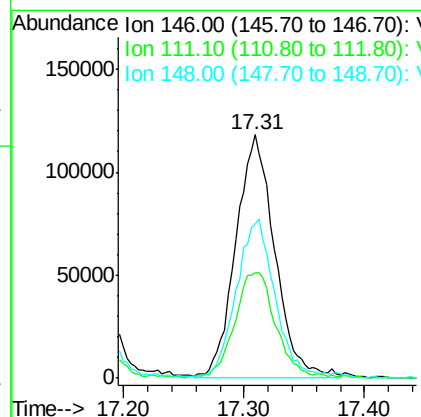
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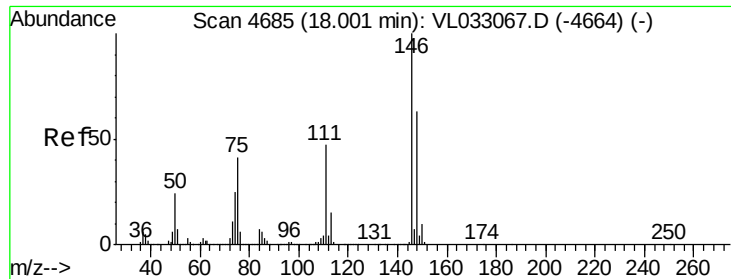
MMDadoda
 1/8/2019 12:01:05 AM



#76
 1,4-Dichlorobenzene
 Concen: 1.108 ppbv m
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.7	68.1
148	65.9	32.4	97.2





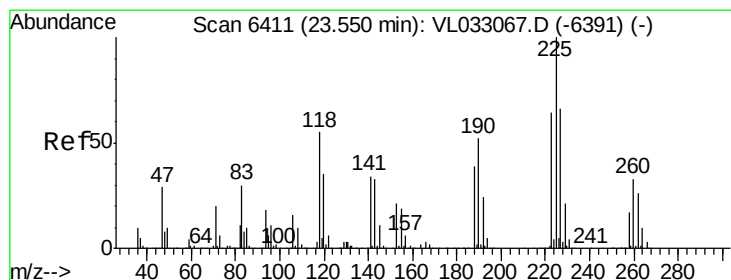
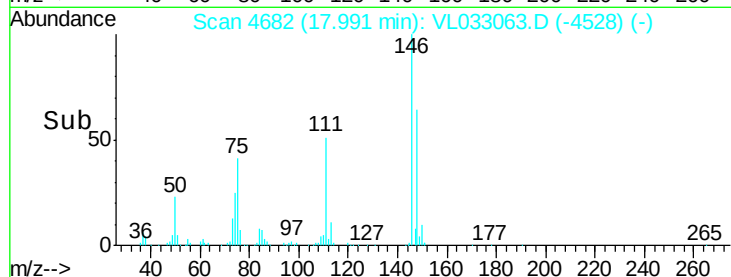
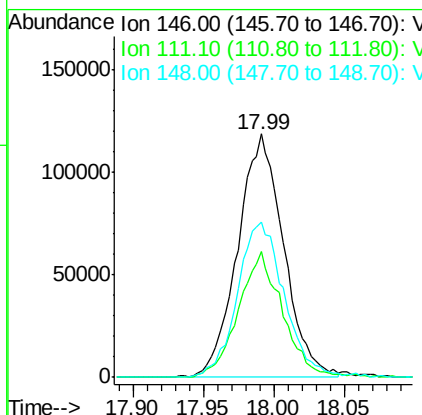
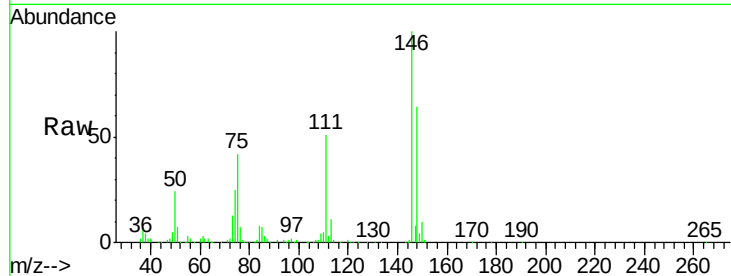
#77
 1,2-Dichlorobenzene
 Concen: 1.093 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	24.4	73.2
148	66.5	32.3	96.9

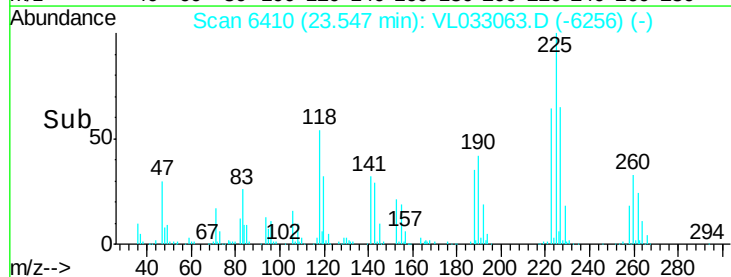
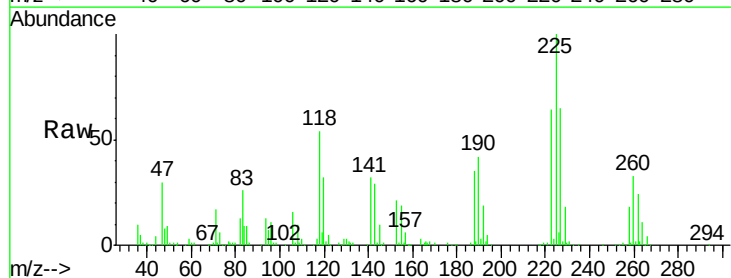
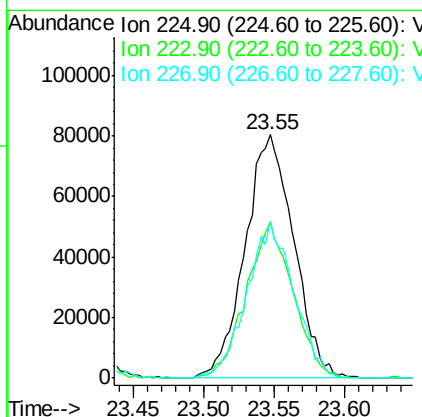
Manual Integrations
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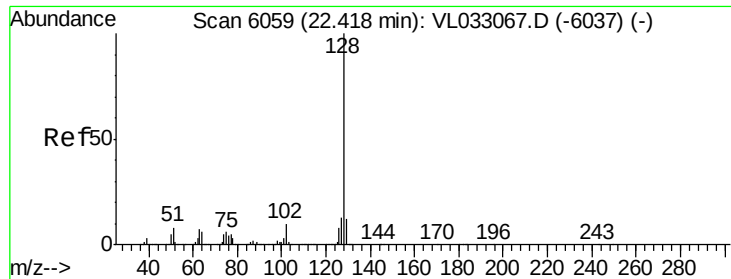
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.126 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	51.0	76.6
227	62.4	51.0	76.4





#79

Naphthalene

Concen: 0.973 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Instrument :

MSVOA_L

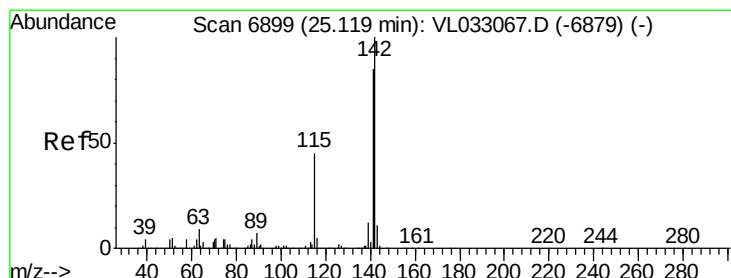
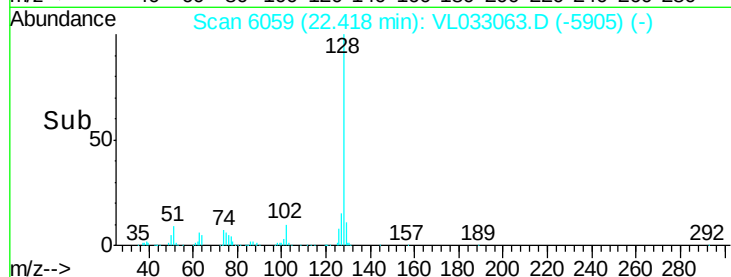
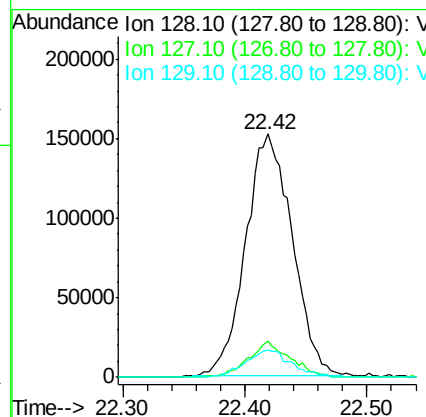
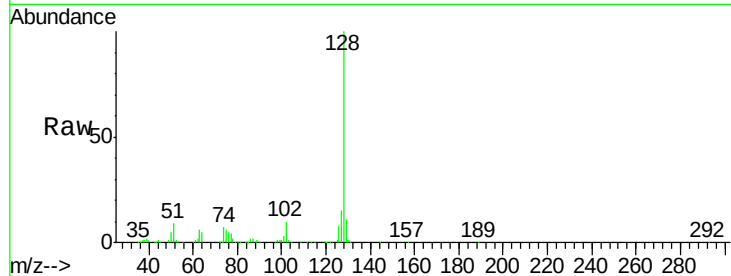
ClientSampleId :

VSTDIC001

Tot Ion:	128	Resp:	402991
Ion Ratio		Lower	Upper
128	100		
127	15.0	11.0	16.6
129	11.1	9.4	14.0

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:01:05 AM



#80

Naphthalene, 2-methyl-

Concen: 0.735 ppbv

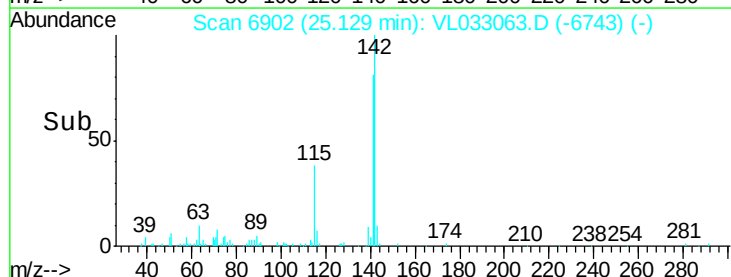
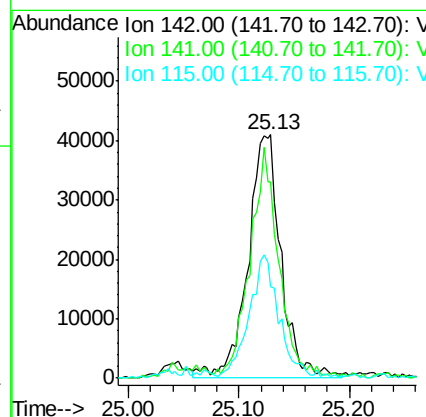
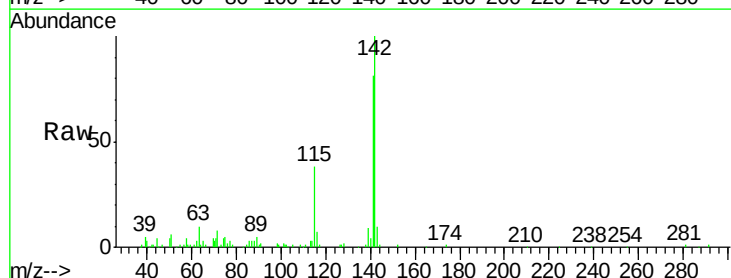
RT: 25.13 min Scan# 6902

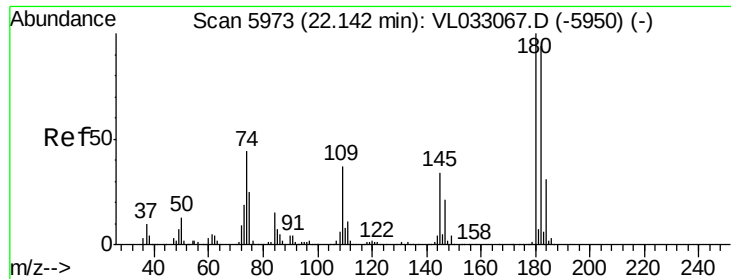
Delta R.T. 0.01 min

Lab File: VL033063.D

Acq: 4 Jan 2019 10:43

Tgt Ion:	142	Resp:	84389
Ion Ratio		Lower	Upper
142	100		
141	81.6	68.6	103.0
115	49.1	35.6	53.4





#81
 1,2,4-Trichlorobenzene
 Concen: 1.044 ppbv
 RT: 22.15 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL033063.D
 Acq: 4 Jan 2019 10:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	196854		
182	97.4		76.1	114.1
184	31.4		24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:05 AM

