

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032240.D
 Acq On : 13 Jul 2018 6:57
 Operator : SY/AP
 Sample : J3753-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:20 PM

Quant Time: Jul 13 07:26:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1721277	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3770718	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4392029	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3382585	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	43643	0.18	ppbv	90
3) Chlorodifluoromethane	3.06	51	83361m	0.39	ppbv	
4) Chloromethane	3.22	50	27090	0.23	ppbv	94
7) Chloroethane	3.66	64	53584	1.31	ppbv	100
9) Propene	3.09	41	171746	1.90	ppbv	93
10) Heptane	8.33	43	242944	0.95	ppbv	99
11) Trichlorofluoromethane	4.07	101	79753	0.34	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.62	101	285298	1.88	ppbv	97
13) Ethanol	3.74	45	12312757	473.08	ppbv	98
15) Acetone	3.96	43	7695792	38.53	ppbv	98
17) tert-Butyl alcohol	4.46	59	1112372	11.93	ppbv	98
18) 1,1-Dichloroethene	4.42	96	118448	1.68	ppbv	98
19) Isopropyl Alcohol	4.12	45	7381046	56.28	ppbv	99
20) Methylene Chloride	4.48	84	160086	2.37	ppbv	95
22) trans-1,2-Dichloroethene	5.04	96	88784	1.32	ppbv	98
24) 1,1-Dichloroethane	5.16	63	2524789	10.82	ppbv	98
26) Hexane	5.86	57	335831	1.86	ppbv #	72
30) Cyclohexane	7.33	84	83855	0.53	ppbv	89
31) cis-1,2-Dichloroethene	5.72	61	26158	0.15	ppbv #	79
32) 1,1,1-Trichloroethane	6.70	97	15188168	56.23	ppbv	95
34) 2-Butanone	5.41	43	1690792	6.58	ppbv	99
36) Benzene	7.09	78	167170	0.45	ppbv #	90
41) Tetrahydrofuran	6.23	42	118183m	0.82	ppbv	
42) Bromodichloromethane	8.01	83	7160	0.02	ppbv #	36
44) 2,2,4-Trimethylpentane	8.08	57	1569881	2.44	ppbv	95
50) 4-Methyl-2-Pentanone	8.96	43	317067	0.71	ppbv	92
52) Tetrachloroethene	11.47	164	19964m	0.14	ppbv	
53) Toluene	10.04	91	2303666	5.20	ppbv	100
57) Chlorobenzene	12.39	112	49225m	0.13	ppbv	
58) Ethyl Benzene	12.96	91	738791	1.16	ppbv	100
59) m/p-Xylene	13.21	91	2257582m	4.29	ppbv	
60) o-Xylene	13.94	91	890041	1.71	ppbv	99
61) Styrene	13.78	104	59811m	0.15	ppbv	
62) Isopropylbenzene	14.92	105	61959m	0.09	ppbv	
69) p-Isopropyltoluene	17.91	119	1819204	2.62	ppbv	99
70) n-Butylbenzene	18.81	91	89064m	0.12	ppbv	
72) 4-Ethyltoluene	16.10	105	292636	0.50	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	234630	0.43	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	963368	1.74	ppbv #	74
79) Naphthalene	22.52	128	153274m	0.41	ppbv	
80) Naphthalene,2-methyl-	25.18	142	59144	0.50	ppbv	94

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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
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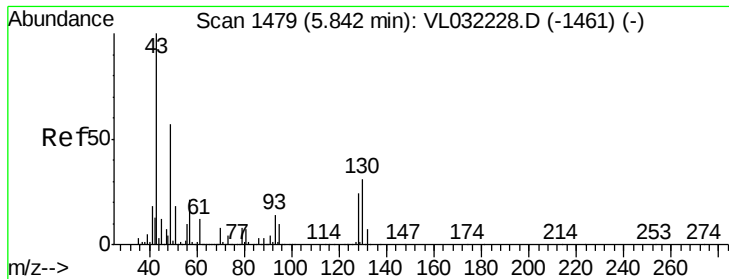
Manual Integrations
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7/13/2018 5:22:20 PM

Quant Time: Jul 13 07:26:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 17:29:21 2018
QLast Update : Fri Jul 13 04:25:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 49 Resp: 1721277

Ion Ratio Lower Upper

49 100

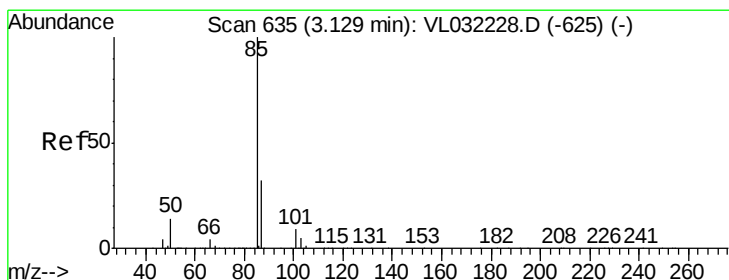
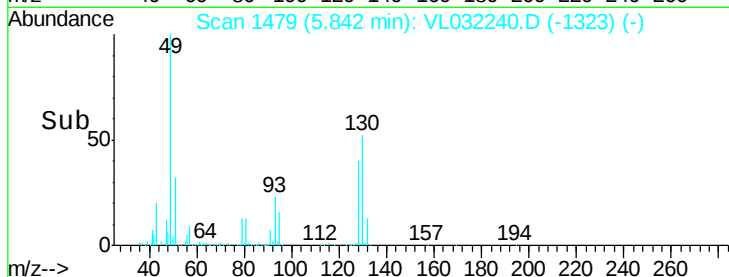
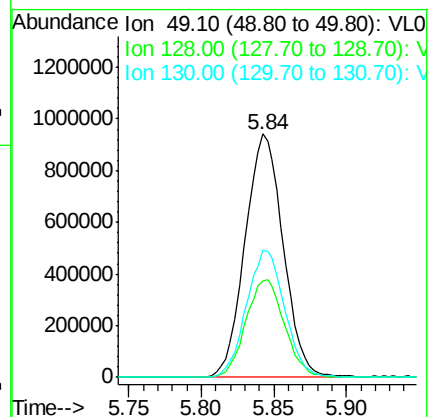
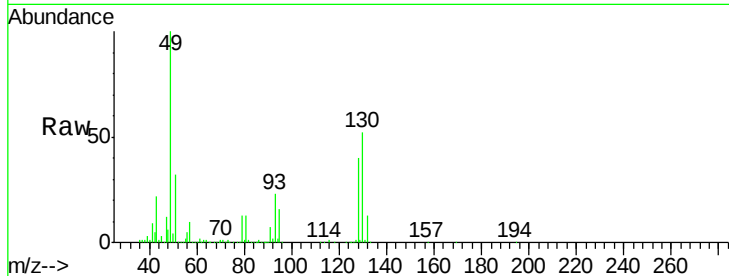
128 41.0 20.9 62.8

130 52.7 27.0 81.0

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#2

Dichlorodifluoromethane

Concen: 0.18 ppbv

RT: 3.13 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032240.D

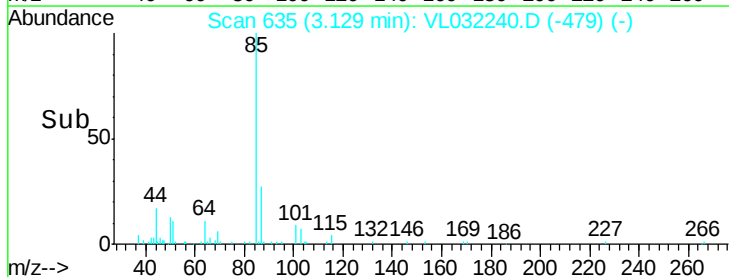
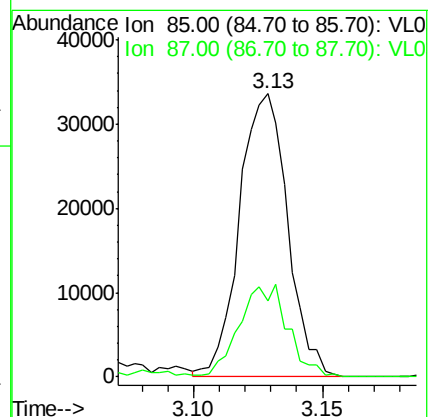
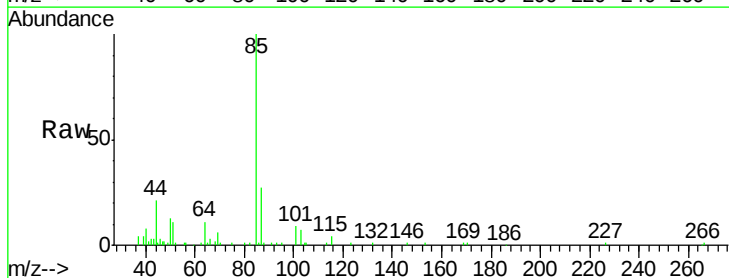
Acq: 13 Jul 2018 6:57

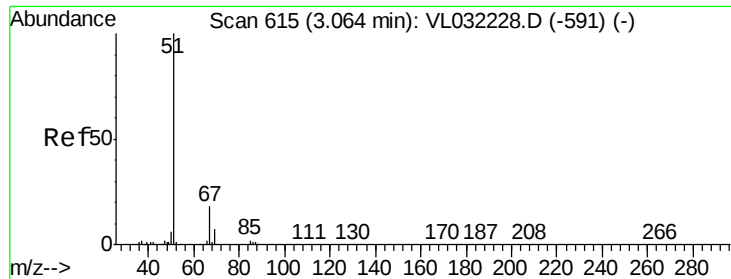
Tgt Ion: 85 Resp: 43643

Ion Ratio Lower Upper

85 100

87 26.8 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.39 ppbv m

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Tot Ion: 51 Resp: 83361

Ion Ratio Lower Upper

51 100

67 18.2 14.6 22.0

Instrument :

MSVOA_L

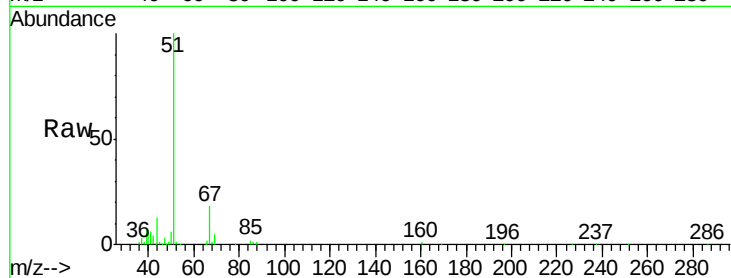
ClientSampleId :

MID

Manual Integrations
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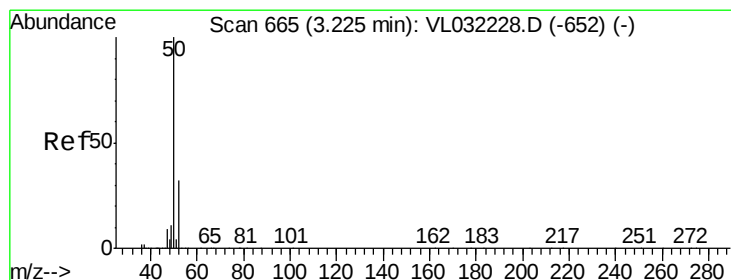
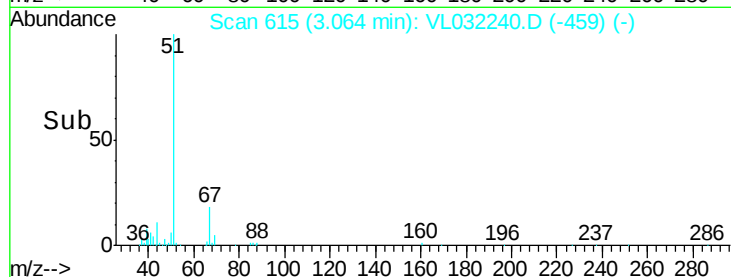
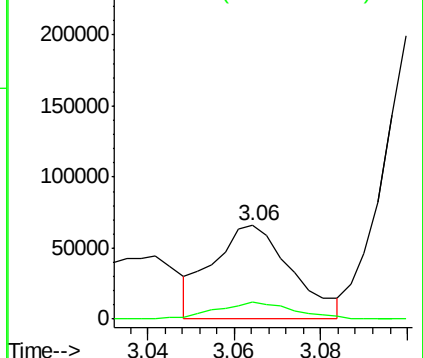
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.23 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032240.D

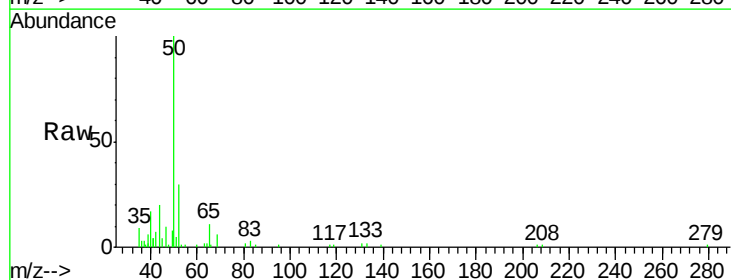
Acq: 13 Jul 2018 6:57

Tgt Ion: 50 Resp: 27090

Ion Ratio Lower Upper

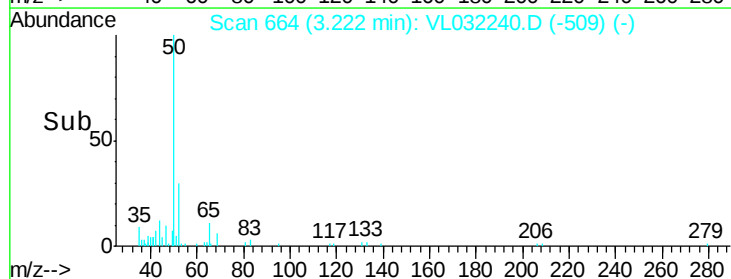
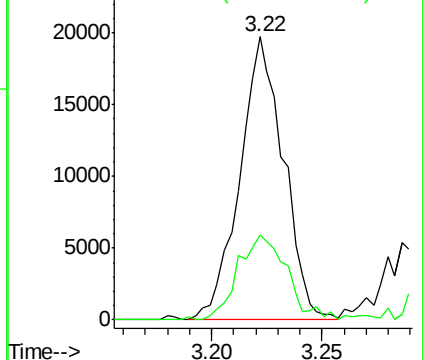
50 100

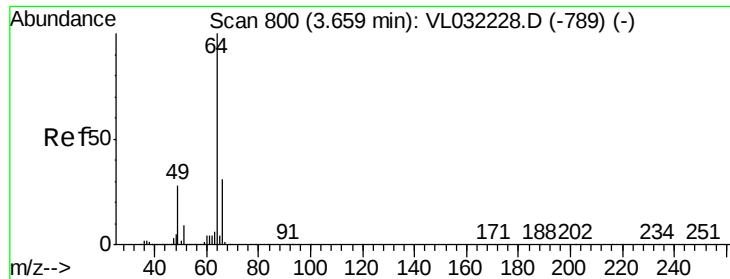
52 28.5 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 1.31 ppbv

RT: 3.66 min Scan# 799

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 64 Resp: 53584

Ion Ratio Lower Upper

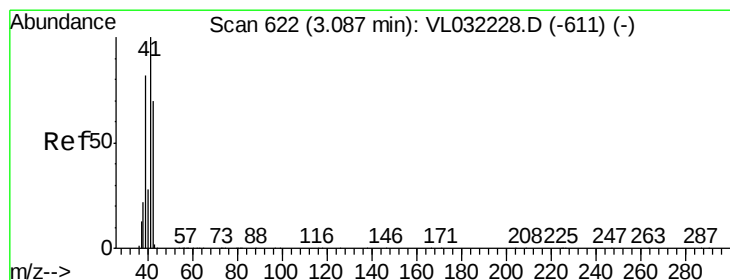
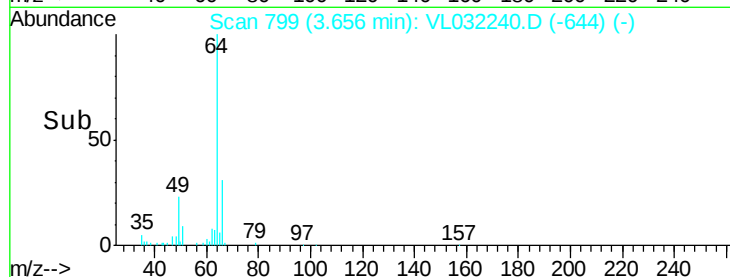
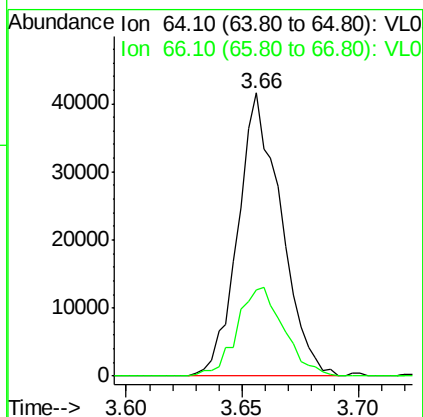
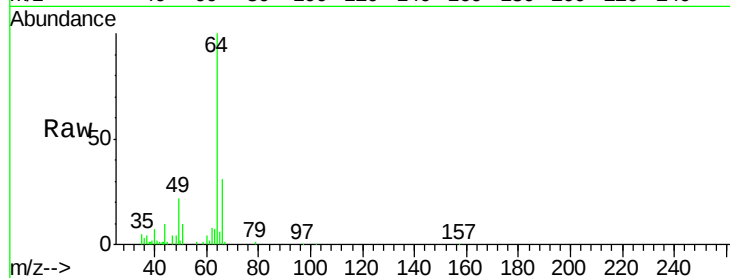
64 100

66 30.5 24.4 36.6

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#9

Propene

Concen: 1.90 ppbv

RT: 3.09 min Scan# 623

Delta R.T. 0.00 min

Lab File: VL032240.D

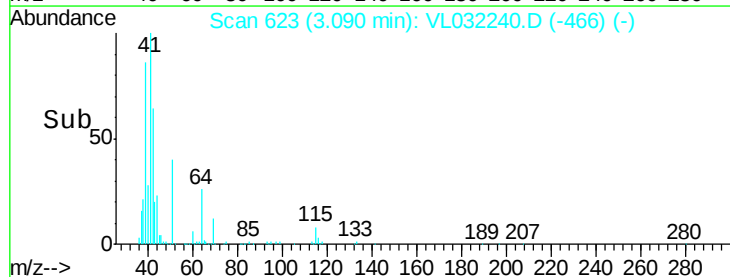
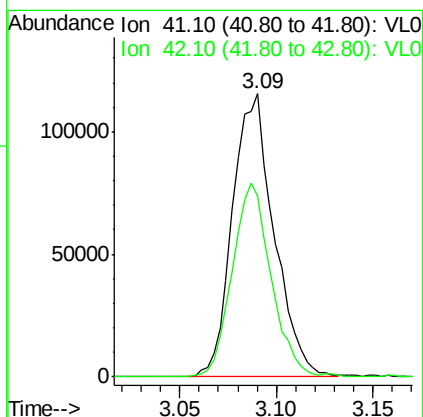
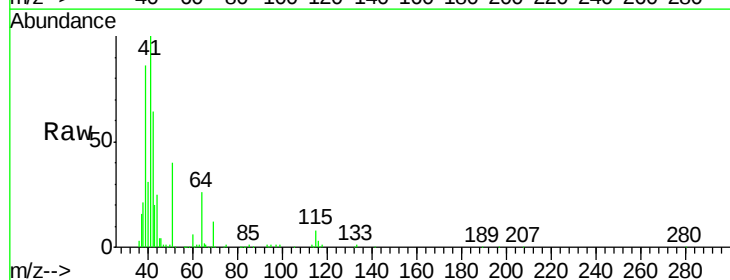
Acq: 13 Jul 2018 6:57

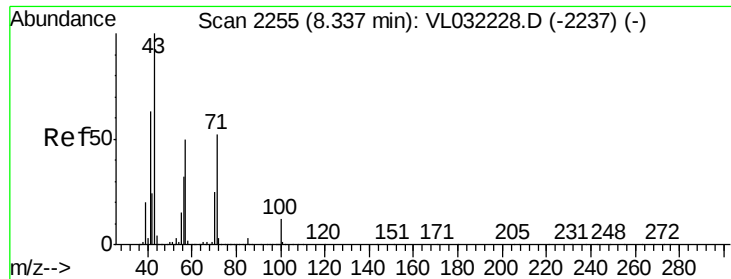
Tgt Ion: 41 Resp: 171746

Ion Ratio Lower Upper

41 100

42 64.5 56.2 84.4





#10

Heptane

Concen: 0.95 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 43 Resp: 242944

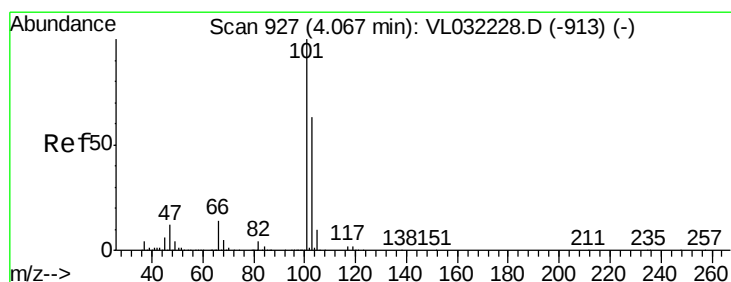
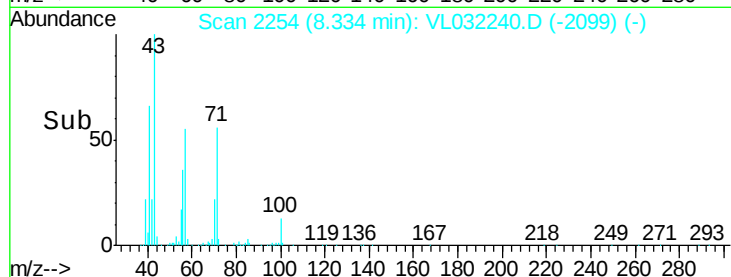
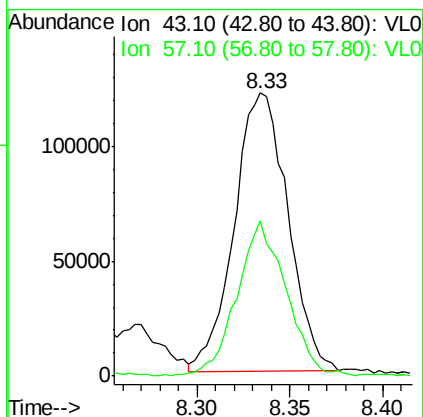
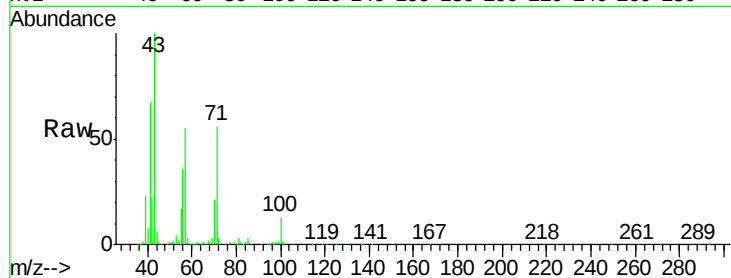
Ion Ratio Lower Upper

43 100

57 51.7 40.7 61.1

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#11

Trichlorofluoromethane

Concen: 0.34 ppbv

RT: 4.07 min Scan# 927

Delta R.T. 0.00 min

Lab File: VL032240.D

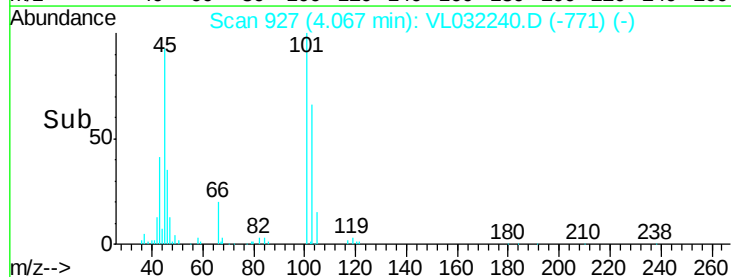
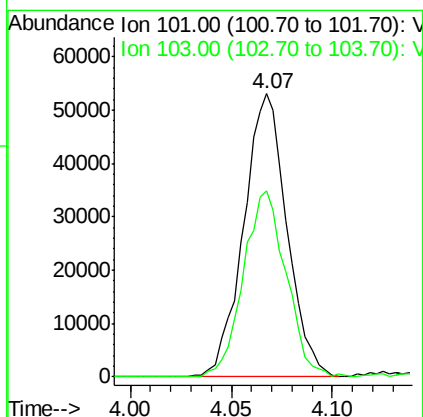
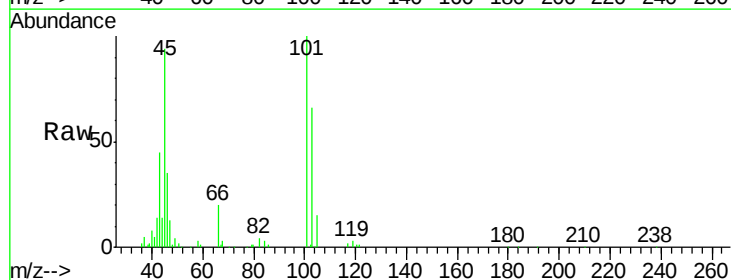
Acq: 13 Jul 2018 6:57

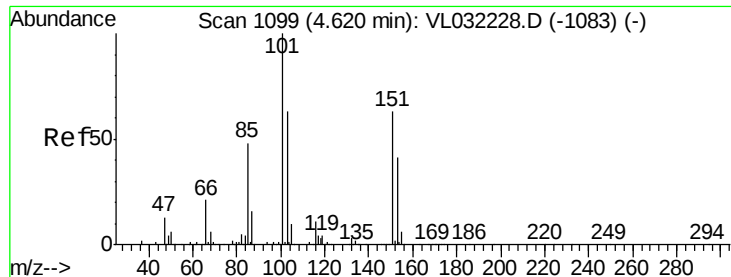
Tgt Ion: 101 Resp: 79753

Ion Ratio Lower Upper

101 100

103 65.7 50.2 75.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.88 ppbv

RT: 4.62 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampled :

MID

Tot Ion:101 Resp: 285298

Ion Ratio Lower Upper

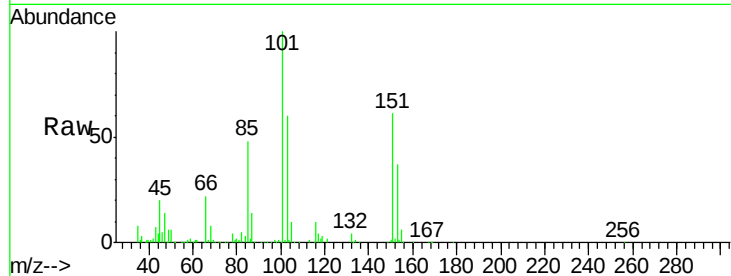
101 100

151 62.7 52.2 78.2

Manual Integrations
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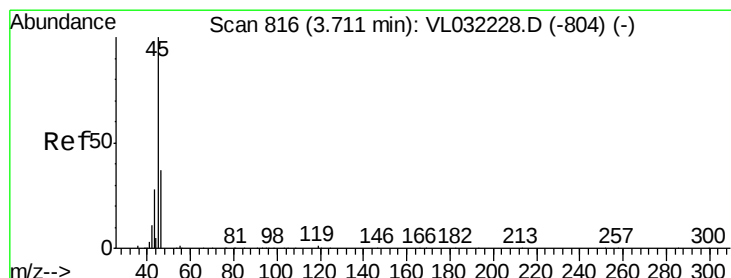
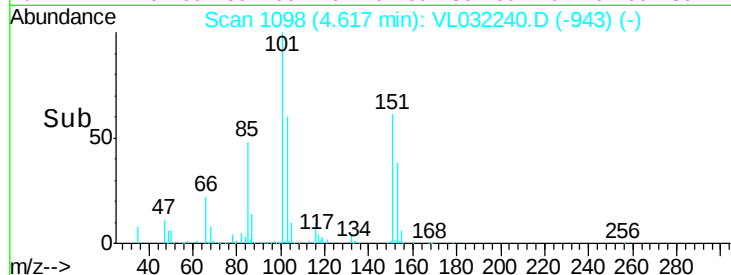
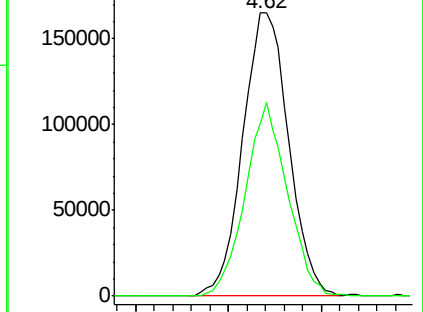
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 473.08 ppbv

RT: 3.74 min Scan# 826

Delta R.T. 0.03 min

Lab File: VL032240.D

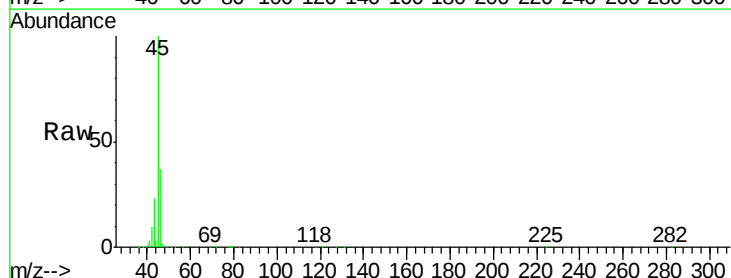
Acq: 13 Jul 2018 6:57

Tgt Ion: 45 Resp:12312757

Ion Ratio Lower Upper

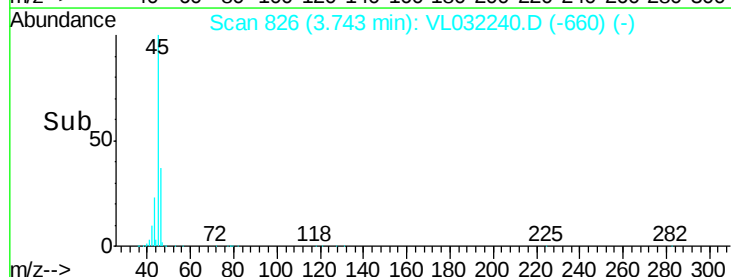
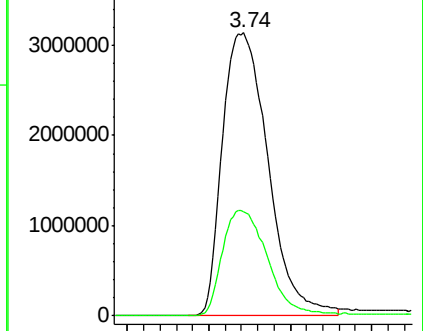
45 100

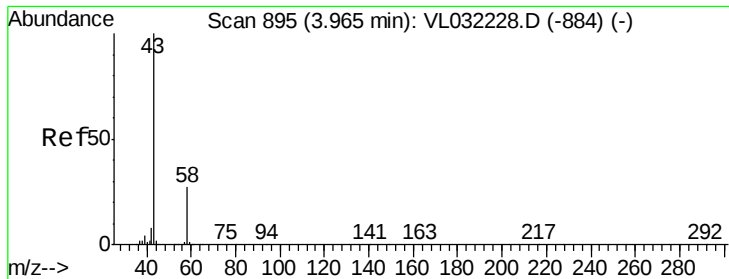
46 37.3 15.5 61.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 38.53 ppbv

RT: 3.96 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 43 Resp: 7695792

Ion Ratio Lower Upper

43 100

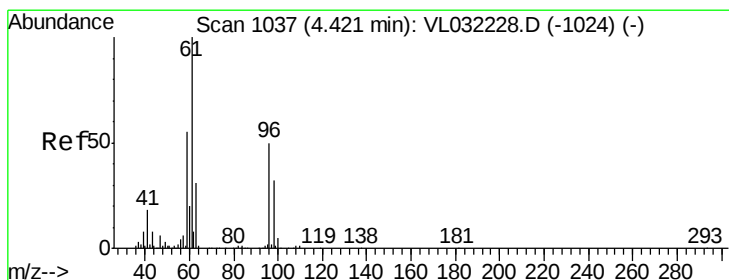
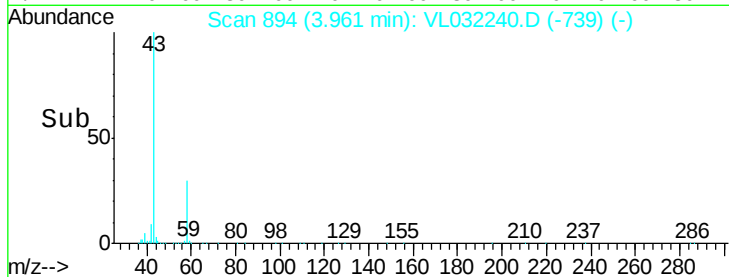
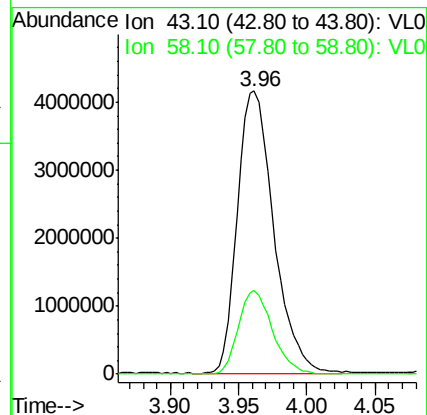
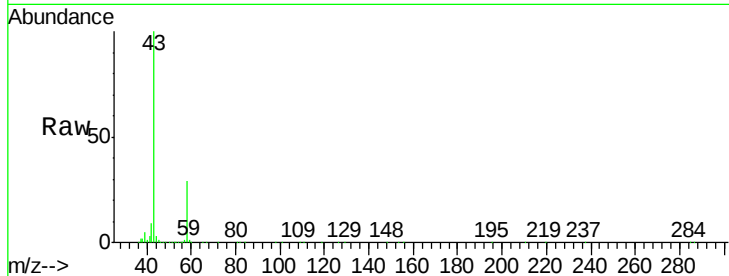
58 27.9 21.5 32.3

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#17

tert-Butyl alcohol

Concen: 11.93 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. 0.04 min

Lab File: VL032240.D

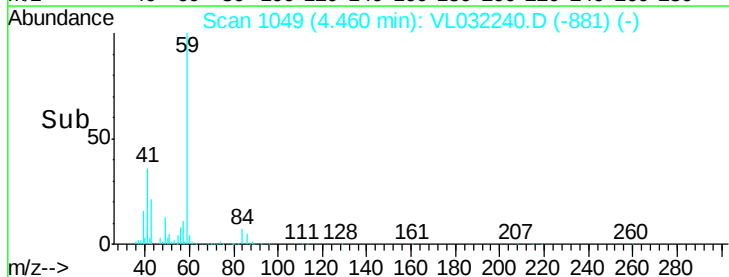
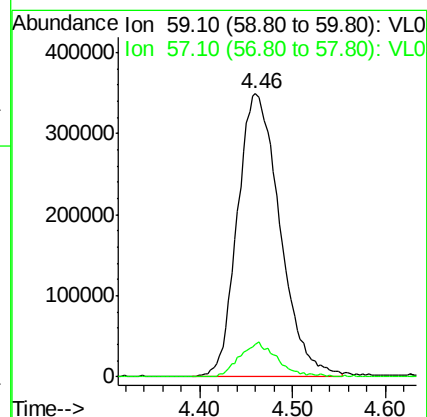
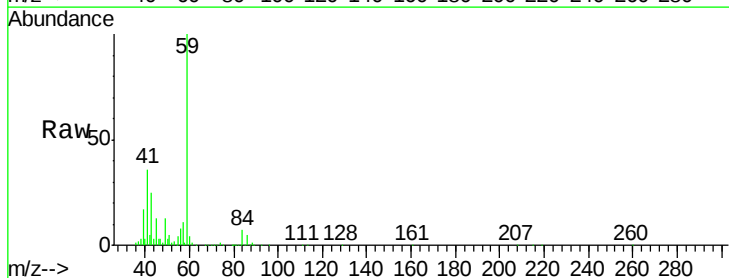
Acq: 13 Jul 2018 6:57

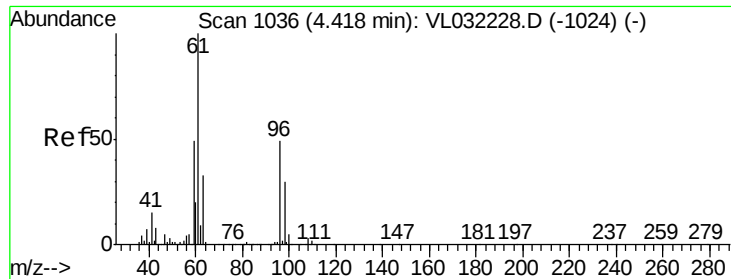
Tgt Ion: 59 Resp: 1112372

Ion Ratio Lower Upper

59 100

57 11.1 8.4 12.6





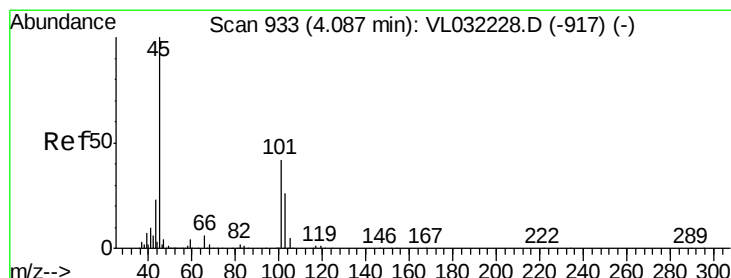
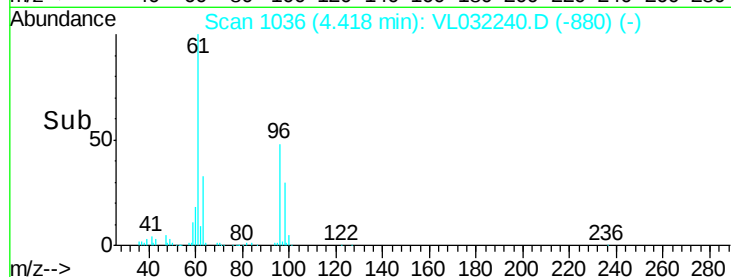
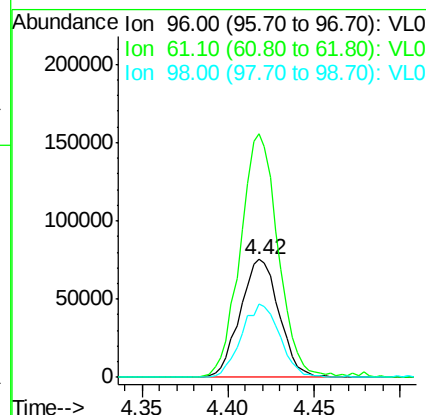
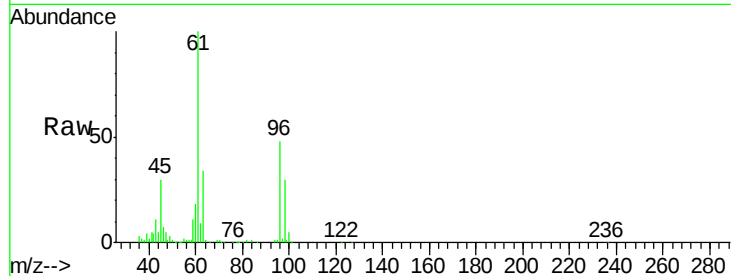
#18
 1,1-Dichloroethene
 Concen: 1.68 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion	Ratio	Lower	Upper
96	100		
61	206.3	163.0	244.4
98	62.2	48.5	72.7

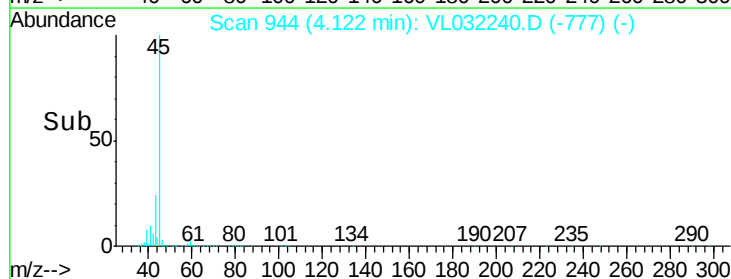
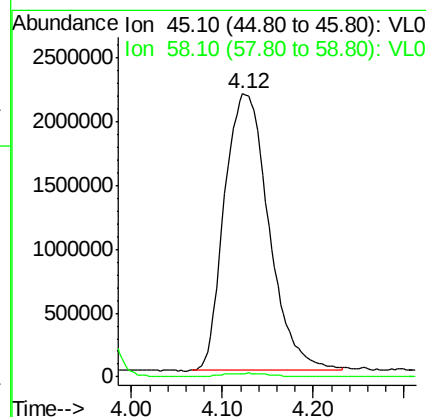
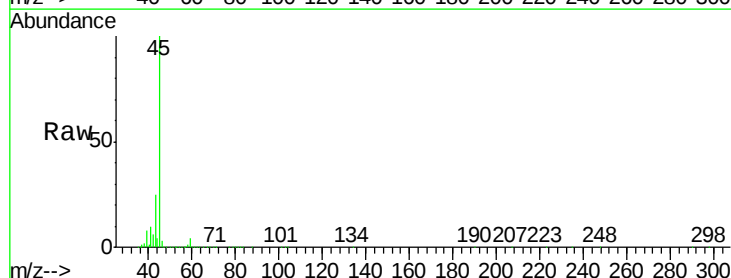
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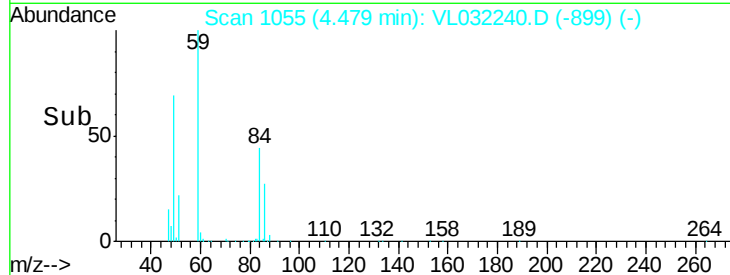
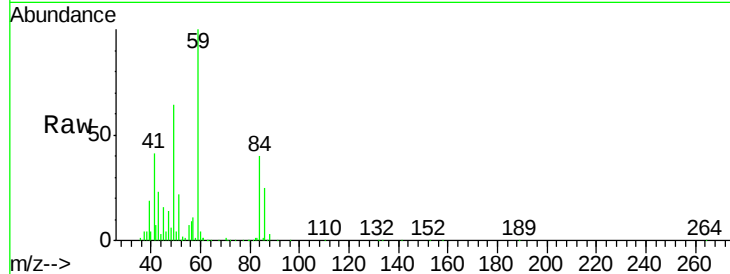
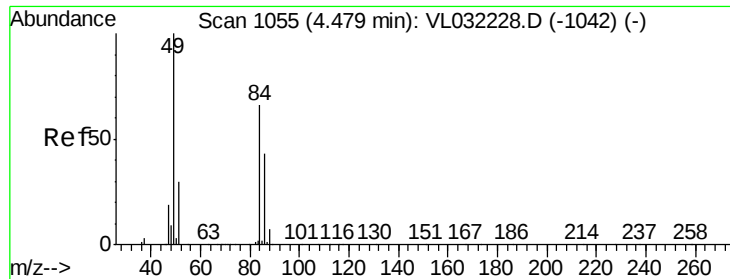
MMDadoda
 7/13/2018 5:22:20 PM



#19
 Isopropyl Alcohol
 Concen: 56.28 ppbv
 RT: 4.12 min Scan# 944
 Delta R.T. 0.04 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
45	100		
58	1.4	1.3	1.9





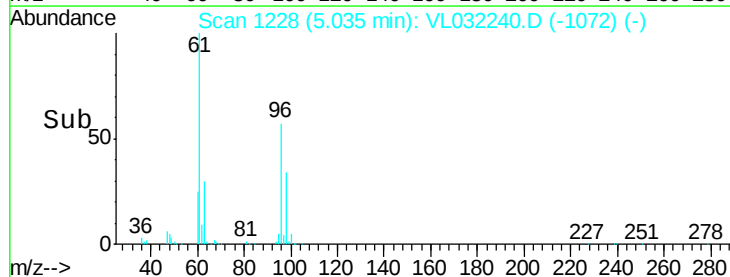
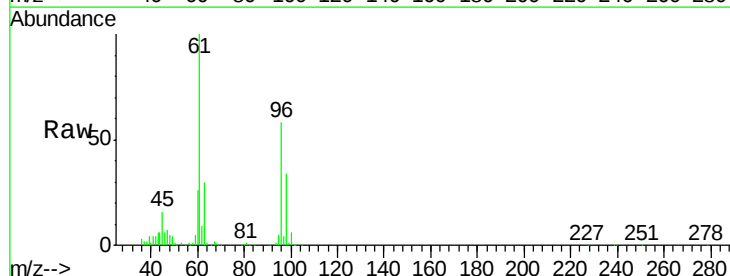
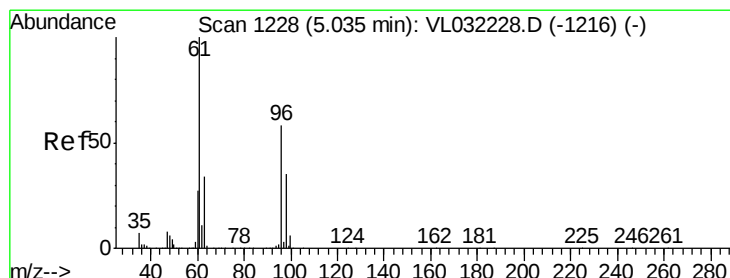
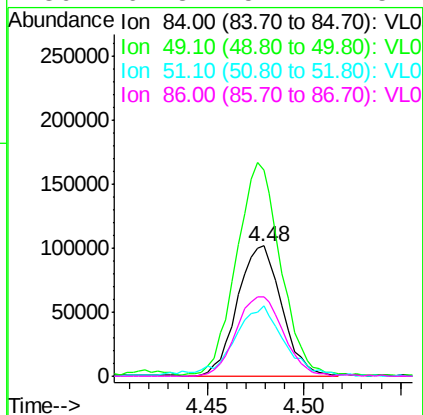
#20
Methvlene Chloride
Concen: 2.37 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tot Ion	84	Resp	160086
Ion Ratio	Lower	Upper	
84	100		
49	156.8	121.8	182.6
51	53.0	36.3	54.5
86	61.3	52.1	78.1

Instrument :
MSVOA_L
ClientSampled :
MID

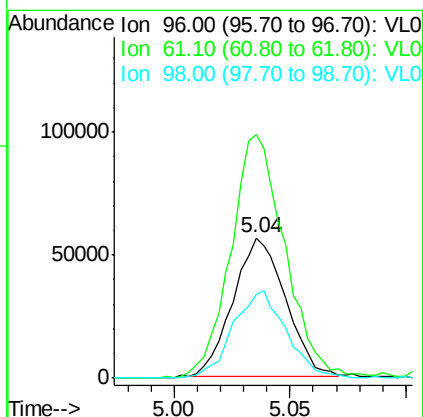
Manual Integrations
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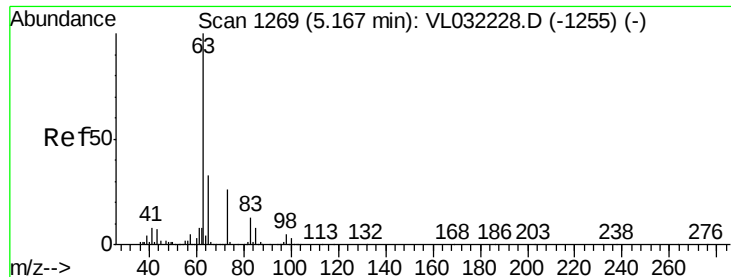
MMDadoda
7/13/2018 5:22:20 PM



#22
trans-1,2-Dichloroethene
Concen: 1.32 ppbv
RT: 5.04 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion	96	Resp	88784
Ion Ratio	Lower	Upper	
96	100		
61	170.2	139.1	208.7
98	59.0	48.4	72.6





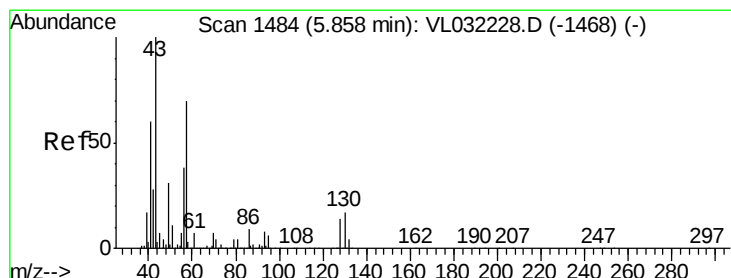
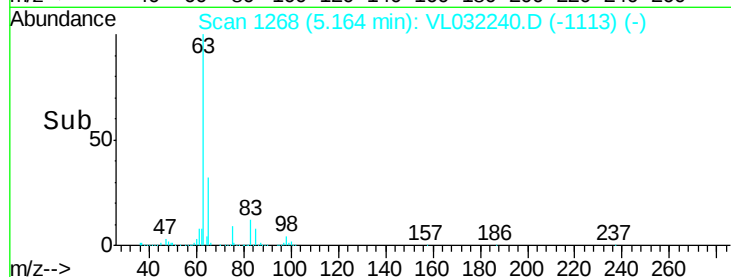
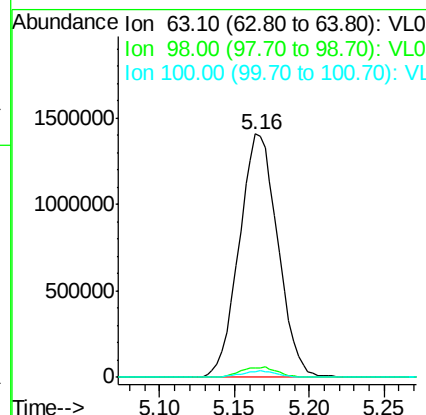
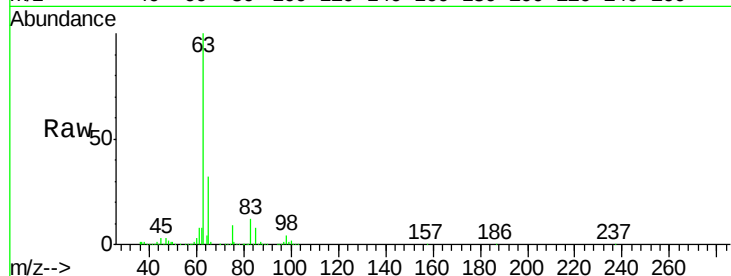
#24
 1,1-Dichloroethane
 Concen: 10.82 ppbv
 RT: 5.16 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.1
100	2.4	1.5	4.4

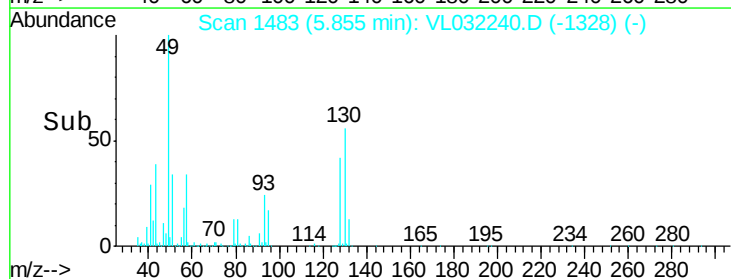
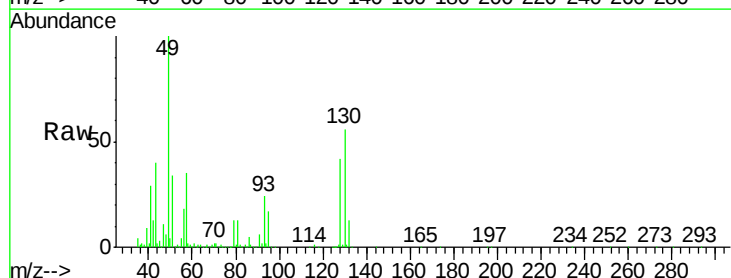
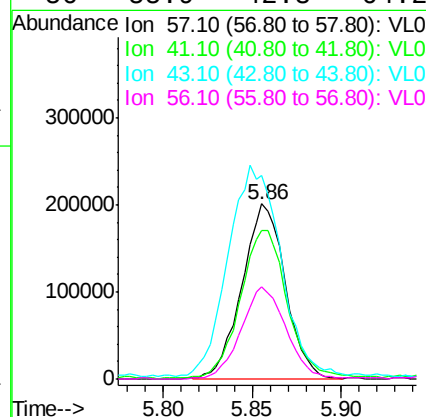
Manual Integrations
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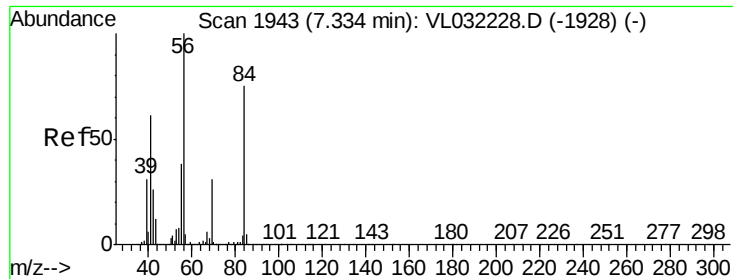
MMDadoda
 7/13/2018 5:22:20 PM



#26
 Hexane
 Concen: 1.86 ppbv
 RT: 5.86 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.7	68.7	103.1
43	151.8	176.2	264.2#
56	55.9	42.8	64.2





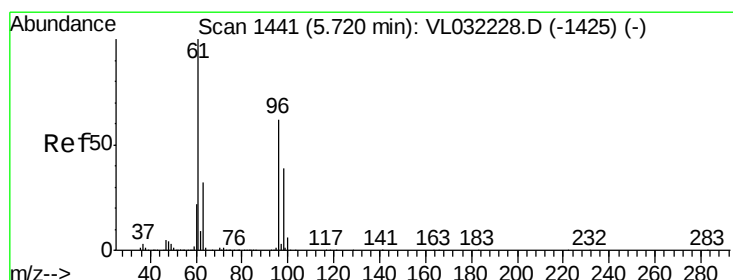
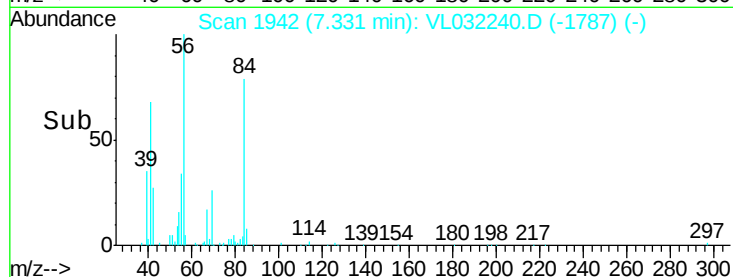
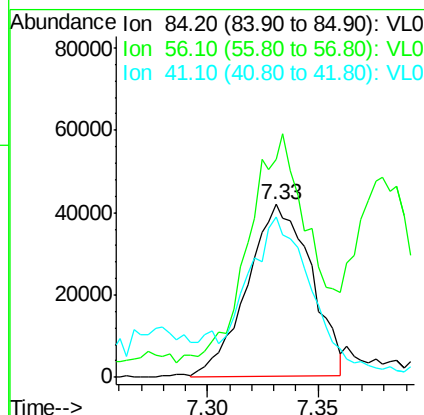
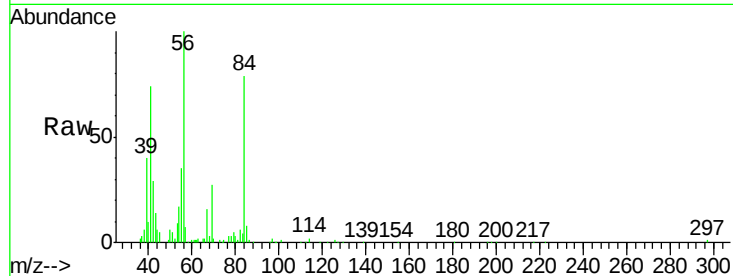
#30
Cyclohexane
Concen: 0.53 ppbv
RT: 7.33 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Instrument :
MSVOA_L
ClientSampled :
MID

Tot Ion	Ratio	Lower	Upper
84	100		
56	151.0	112.6	168.8
41	97.1	67.0	100.6

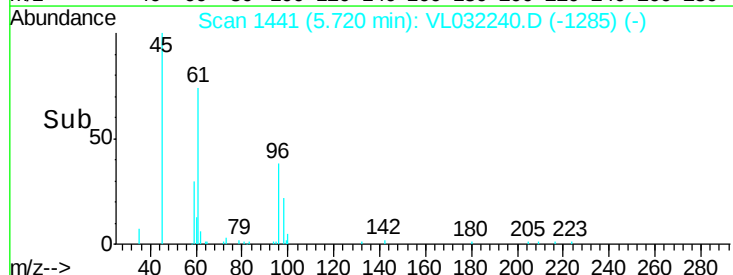
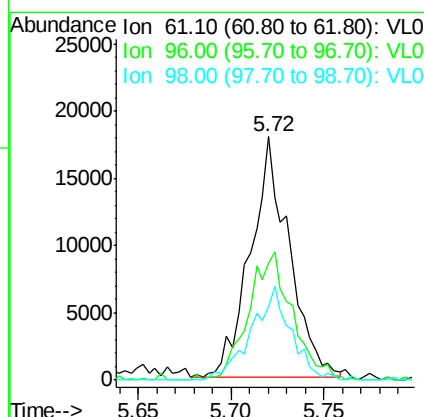
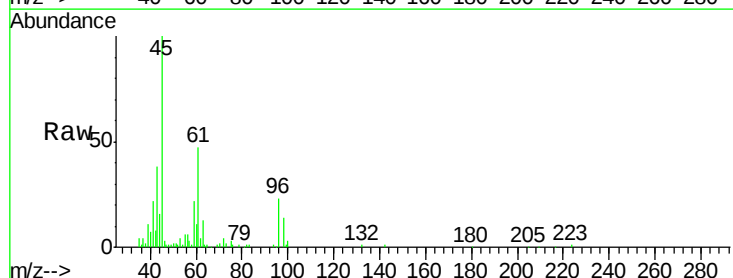
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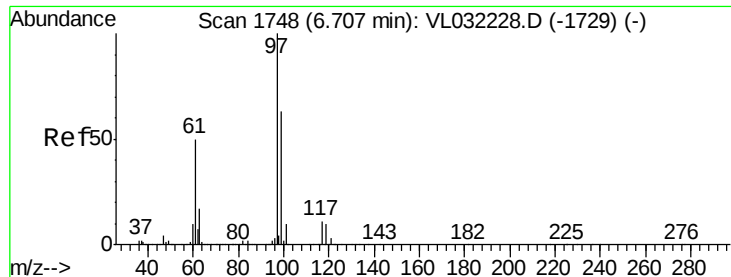
MMDadoda
7/13/2018 5:22:20 PM



#31
cis-1,2-Dichloroethene
Concen: 0.15 ppbv
RT: 5.72 min Scan# 1441
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
61	100		
96	44.5	49.8	74.8#
98	28.1	31.4	47.2#





#32

1,1,1-Trichloroethane

Concen: 56.23 ppbv

RT: 6.70 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 97 Resp:15188168

Ion Ratio Lower Upper

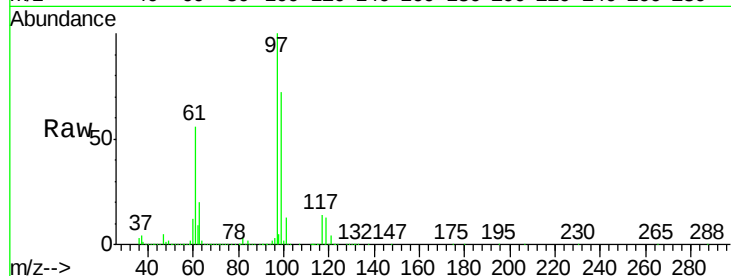
97 100

99 68.6 51.2 76.8

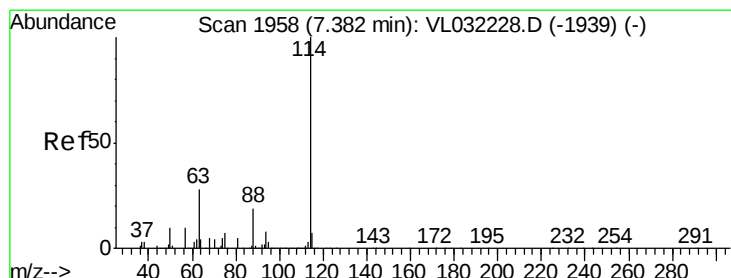
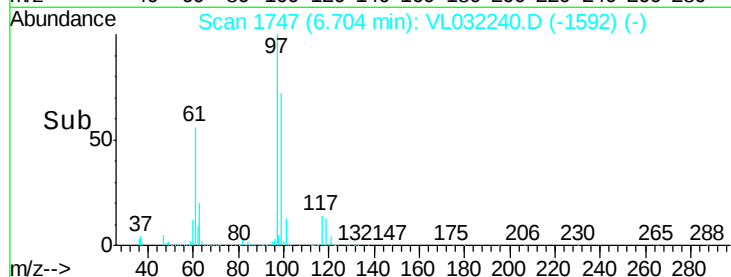
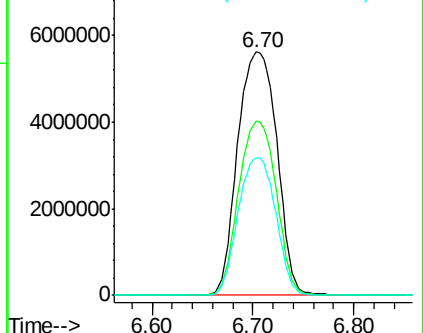
61 54.3 41.3 61.9

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7/13/2018 5:22:20 PM



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

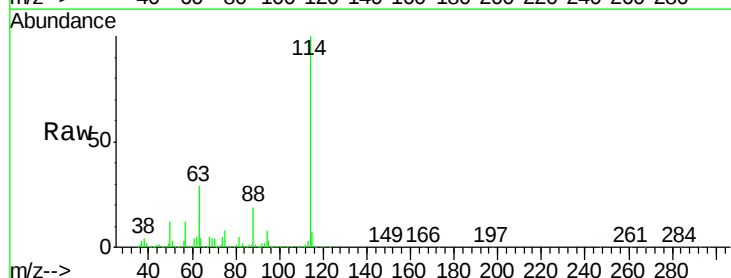
Tgt Ion:114 Resp: 3770718

Ion Ratio Lower Upper

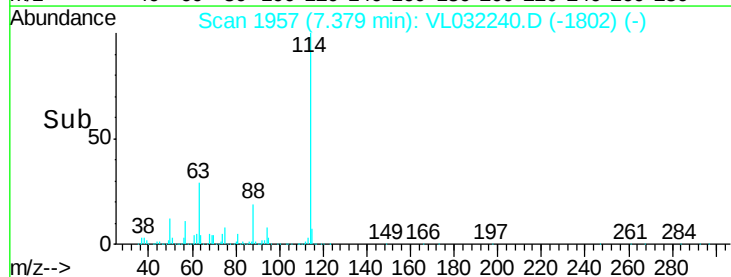
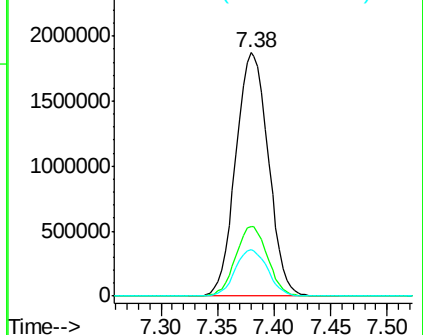
114 100

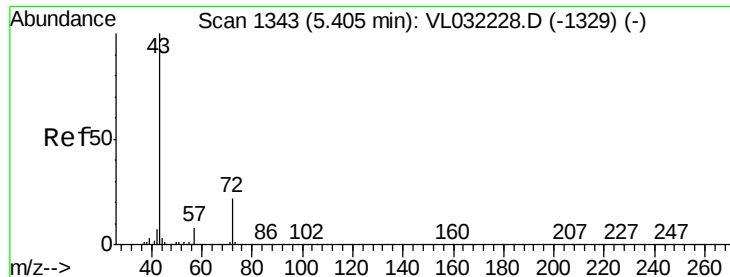
63 28.2 22.5 33.7

88 18.9 15.4 23.0



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





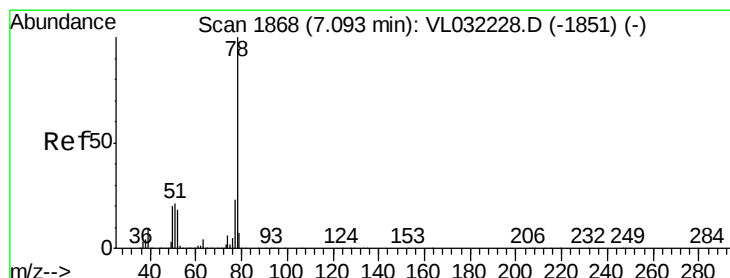
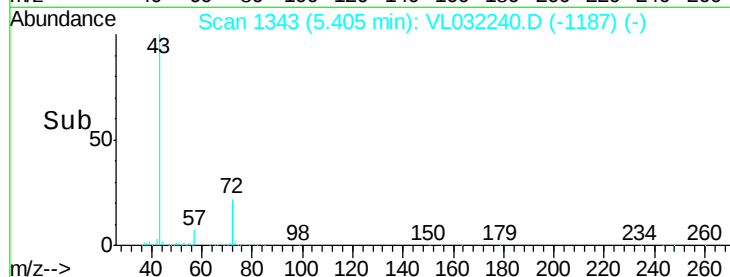
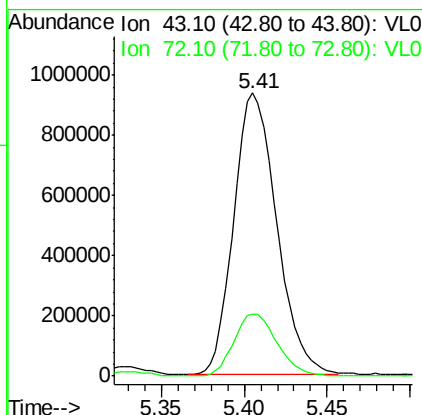
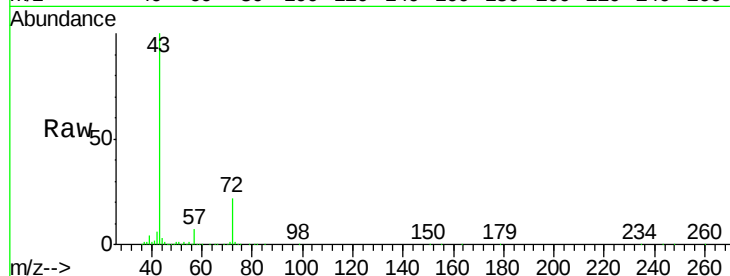
#34
 2-Butanone
 Concen: 6.58 ppbv
 RT: 5.41 min Scan# 1343
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion: 43 Resp: 1690792
 Ion Ratio Lower Upper
 43 100
 72 22.1 18.1 27.1

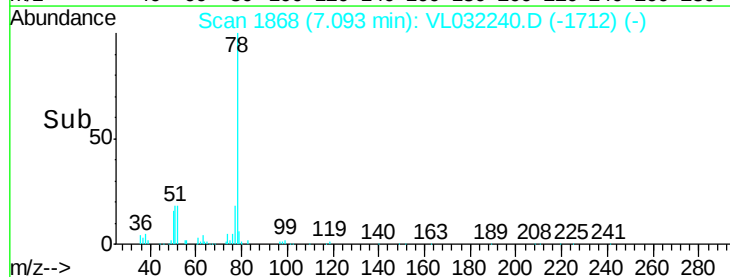
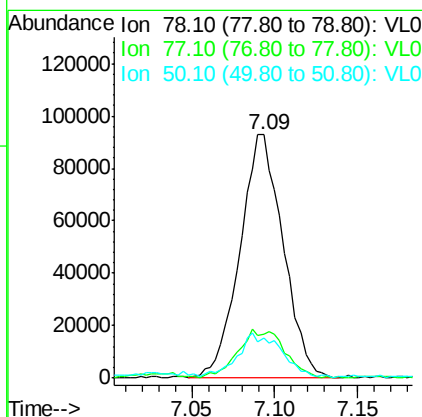
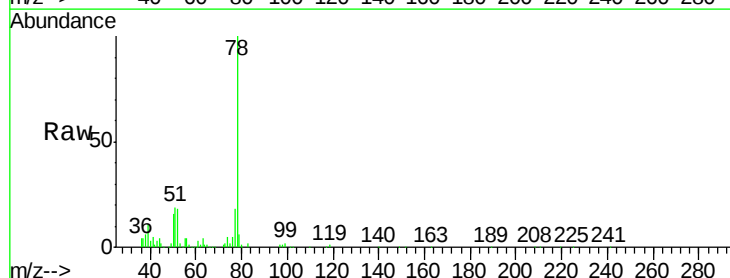
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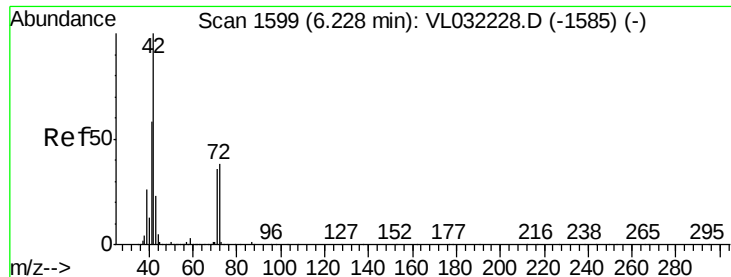
MMDadoda
 7/13/2018 5:22:20 PM



#36
 Benzene
 Concen: 0.45 ppbv
 RT: 7.09 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion: 78 Resp: 167170
 Ion Ratio Lower Upper
 78 100
 77 17.5 18.0 27.0#
 50 15.4 15.8 23.8#





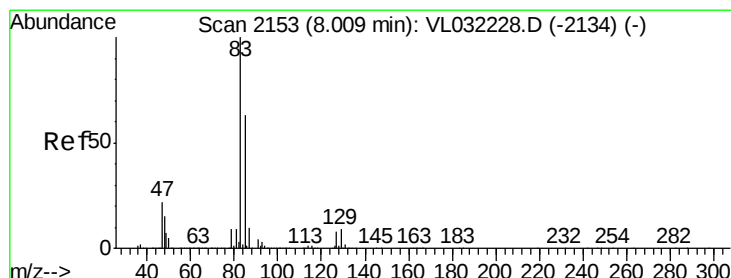
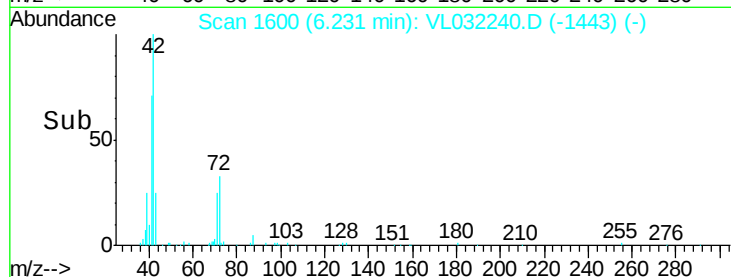
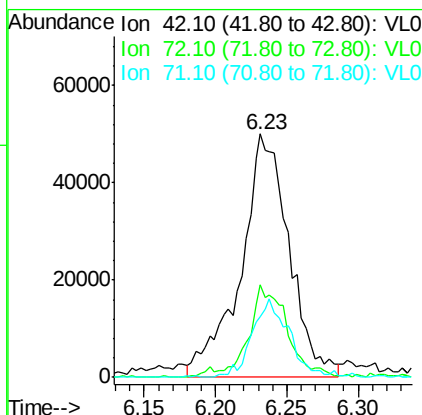
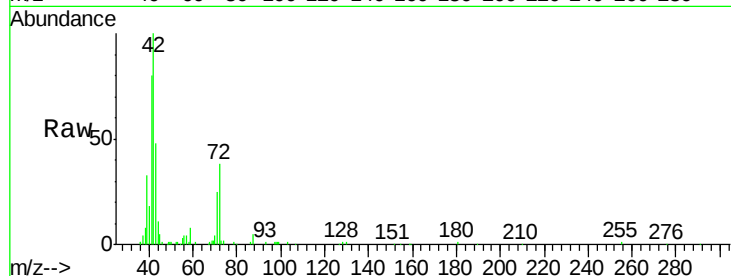
#41
Tetrahydrofuran
Concen: 0.82 ppbv m
RT: 6.23 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion	Ratio	Lower	Upper
42	100		
72	30.7	30.6	45.8
71	25.2	29.7	44.5#

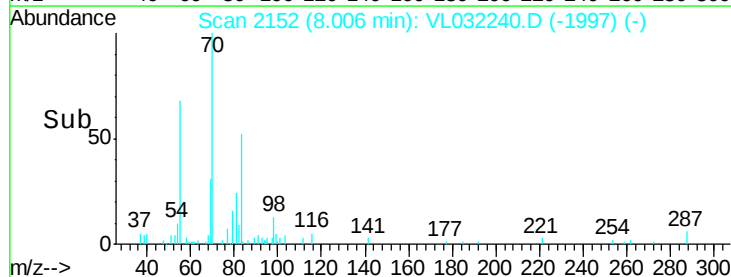
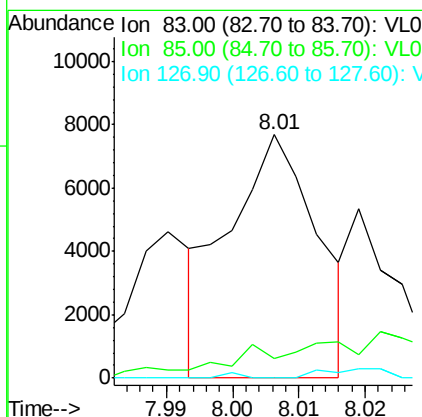
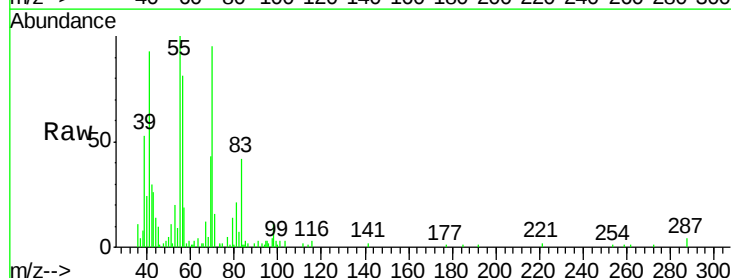
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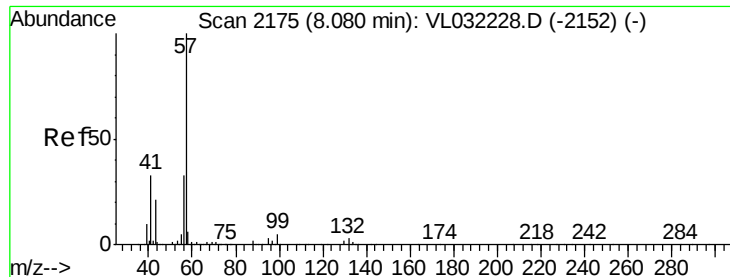
MMDadoda
7/13/2018 5:22:20 PM



#42
Bromodichloromethane
Concen: 0.02 ppbv
RT: 8.01 min Scan# 2152
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	9.3	50.6	76.0#
127	0.0	6.1	9.1#





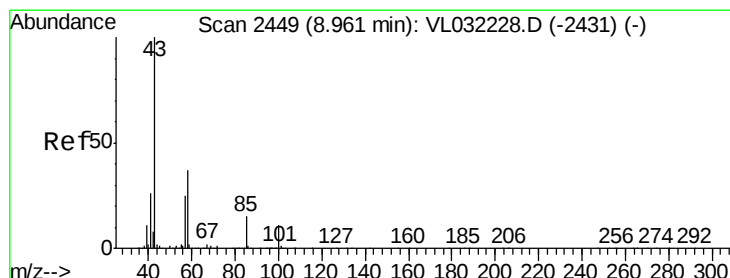
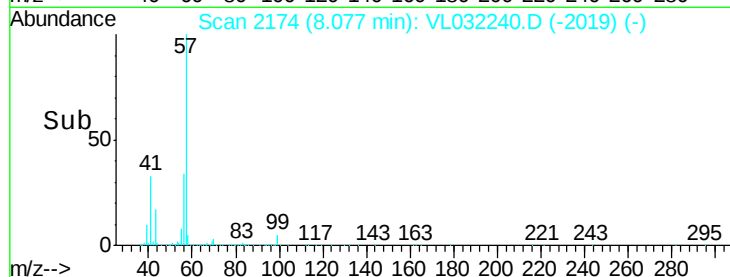
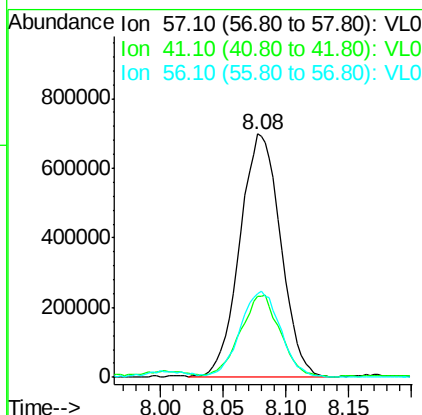
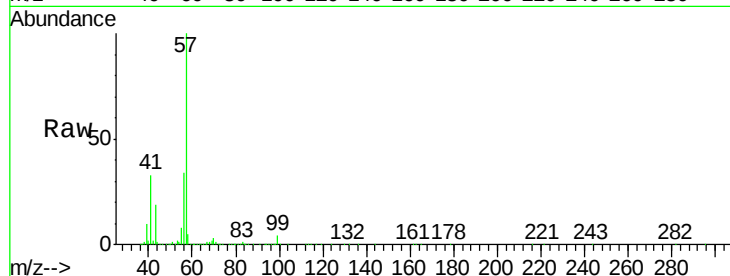
#44
 2,2,4-Trimethylpentane
 Concen: 2.44 ppbv
 RT: 8.08 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion	Ratio	Lower	Upper
57	100		
41	32.9	24.7	37.1
56	35.4	25.4	38.0

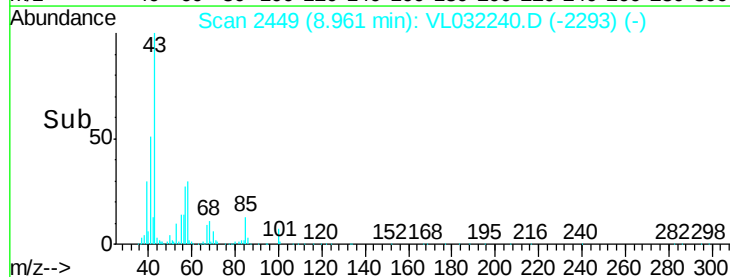
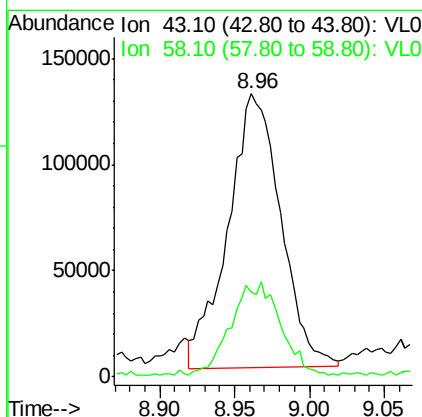
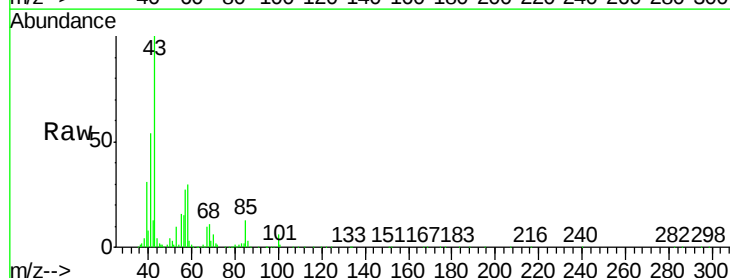
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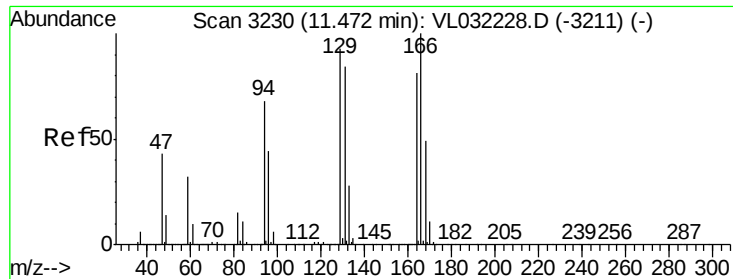
MMDadoda
 7/13/2018 5:22:20 PM



#50
 4-Methyl-2-Pentanone
 Concen: 0.71 ppbv
 RT: 8.96 min Scan# 2449
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.2	29.5	44.3





#52

Tetrachloroethene

Concen: 0.14 ppbv m

RT: 11.47 min Scan# 3229

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

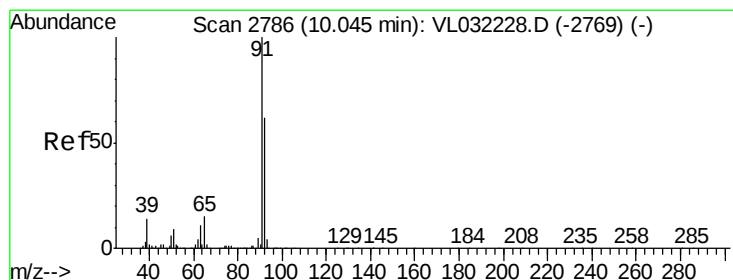
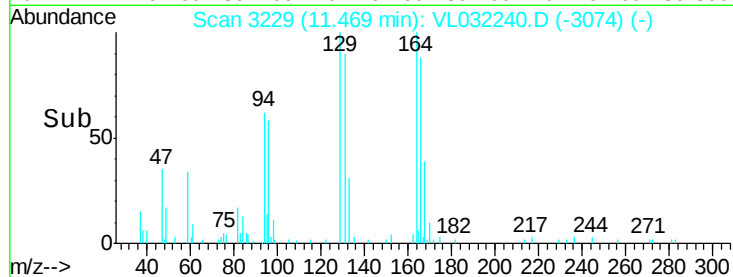
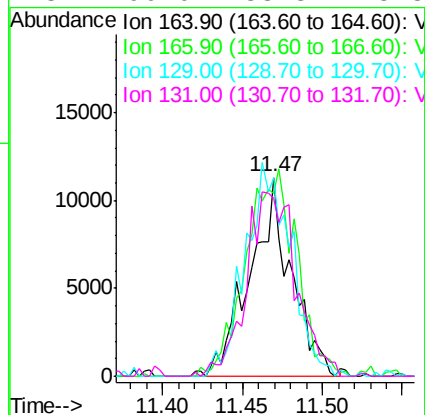
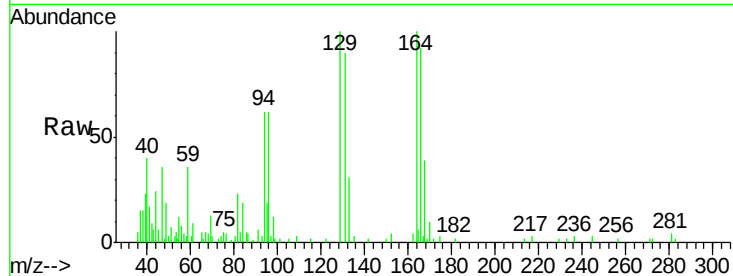
ClientSampled :

MID

Tot Ion:	164	Resp:	19964
Ion Ratio	Lower	Upper	
164	100		
166	92.3	99.3	148.9#
129	100.1	92.0	138.0
131	90.0	83.8	125.8

Manual Integrations
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MMDadoda
7/13/2018 5:22:20 PM



#53

Toluene

Concen: 5.20 ppbv

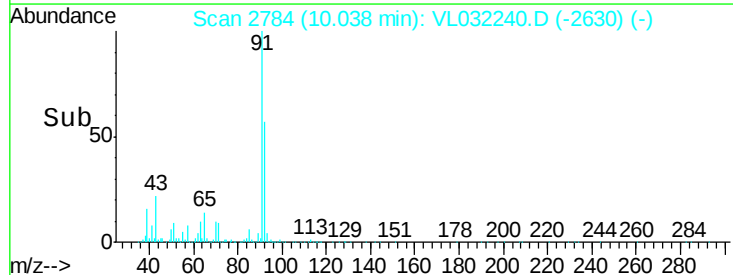
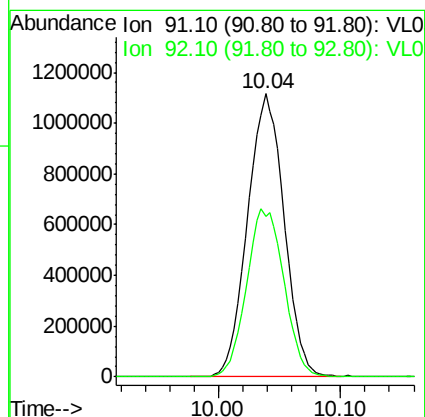
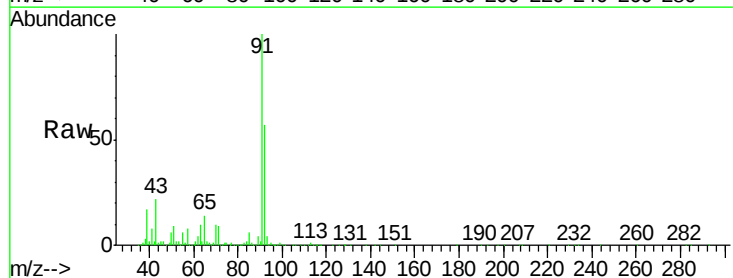
RT: 10.04 min Scan# 2784

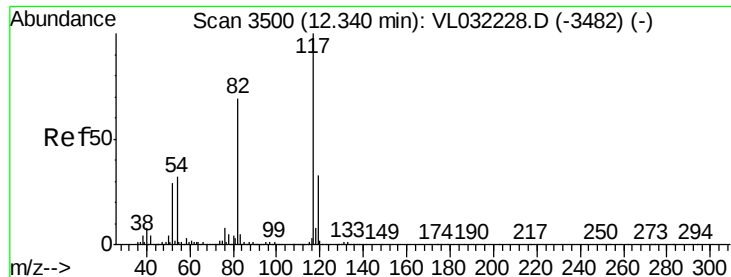
Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Tgt Ion:	91	Resp:	2303666
Ion Ratio	Lower	Upper	
91	100		
92	60.8	49.0	73.4





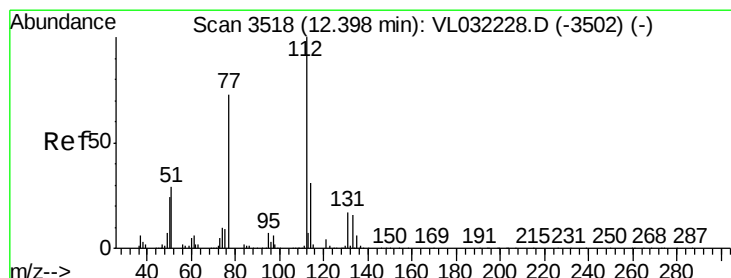
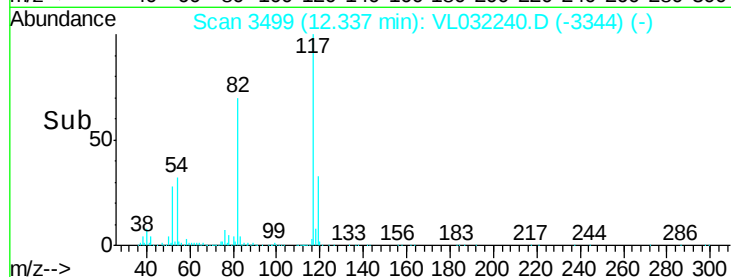
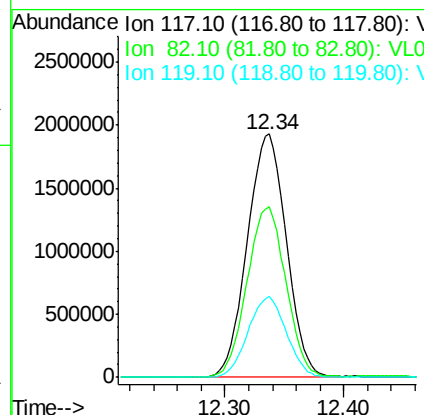
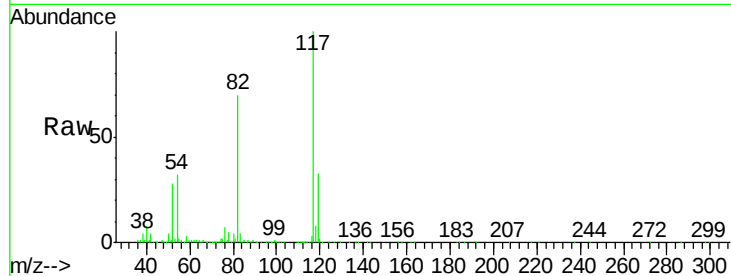
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Instrument :
MSVOA_L
ClientSampled :
MID

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.9	53.2	79.8
119	32.7	43.9	65.9#

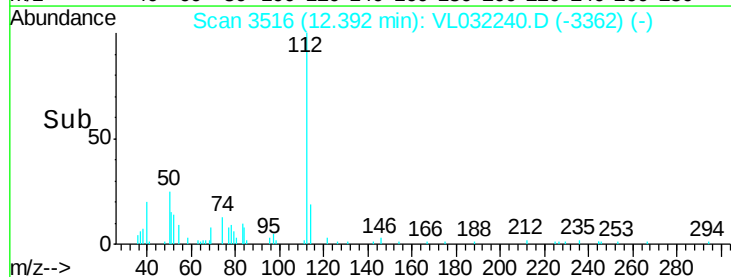
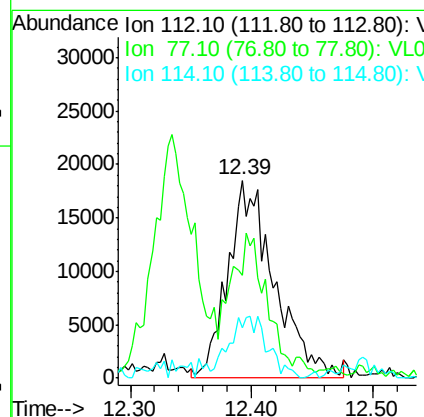
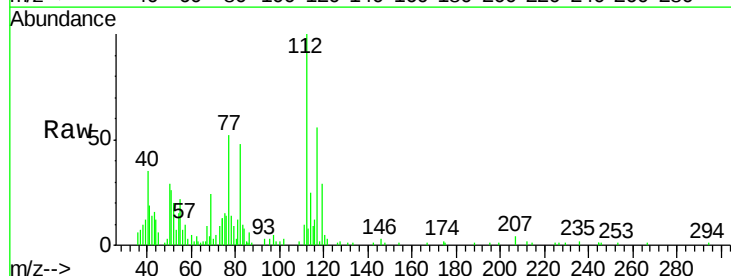
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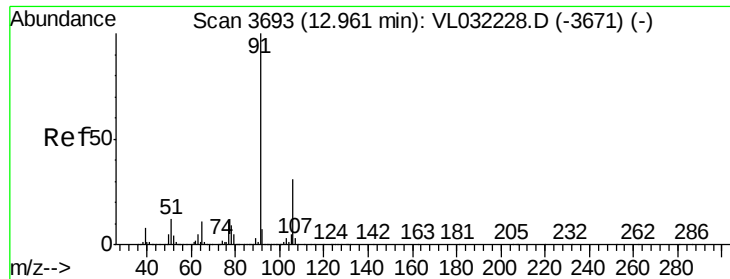
MMDadoda
7/13/2018 5:22:20 PM



#57
Chlorobenzene
Concen: 0.13 ppbv m
RT: 12.39 min Scan# 3516
Delta R.T. -0.01 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
112	100		
77	51.8	58.8	88.2#
114	25.3	27.9	34.1#





#58

Ethyl Benzene

Concen: 1.16 ppbv

RT: 12.96 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 91 Resp: 738791

Ion Ratio Lower Upper

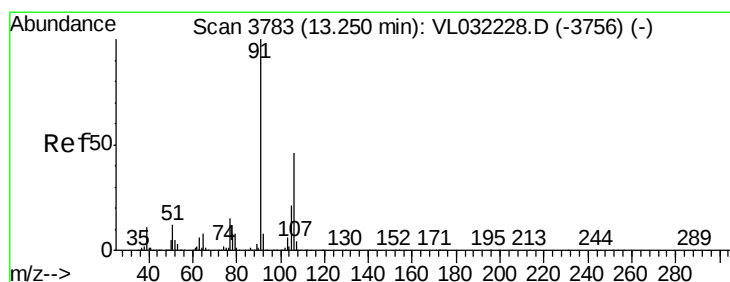
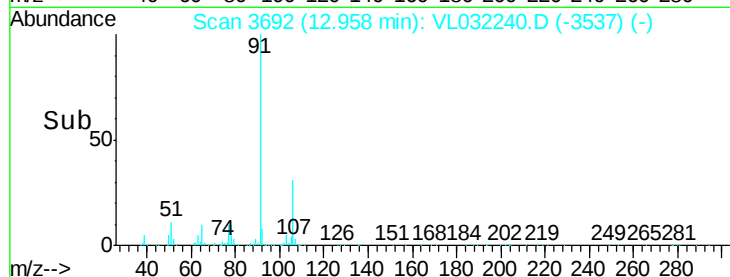
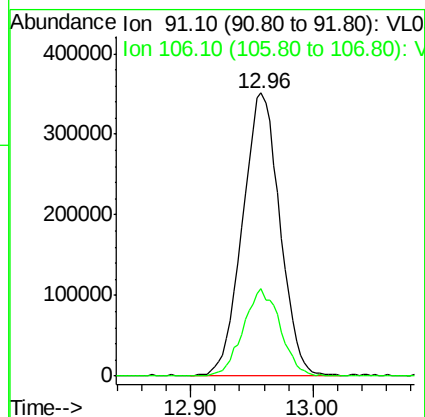
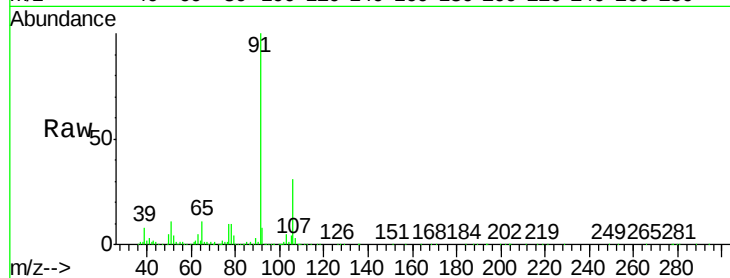
91 100

106 30.8 24.5 36.7

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#59

m/p-Xylene

Concen: 4.29 ppbv m

RT: 13.21 min Scan# 3770

Delta R.T. -0.04 min

Lab File: VL032240.D

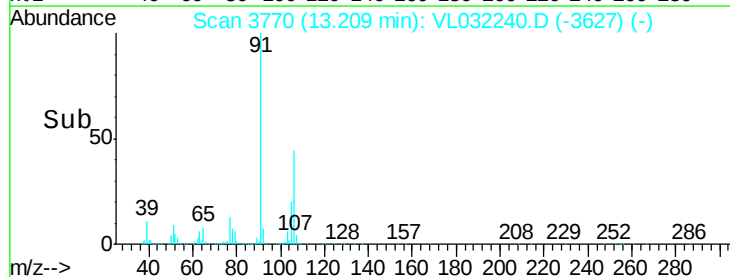
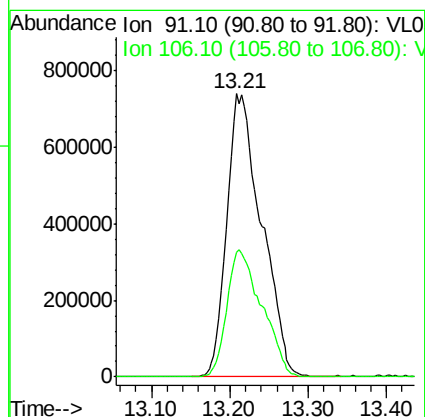
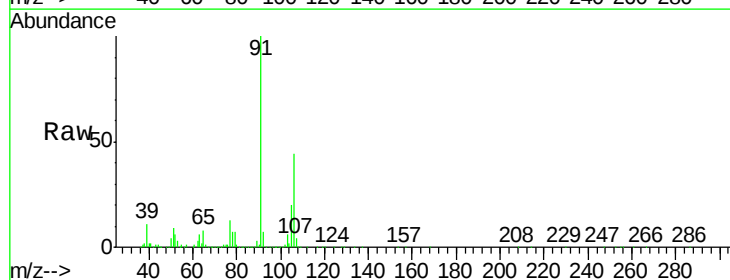
Acq: 13 Jul 2018 6:57

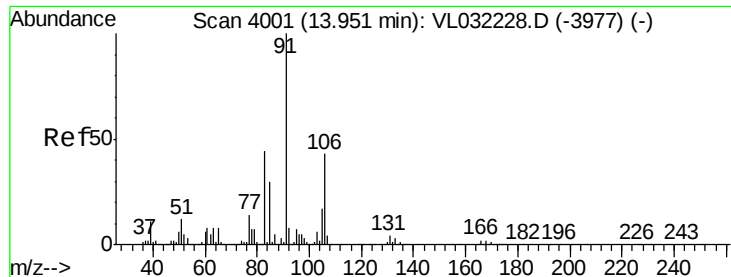
Tgt Ion: 91 Resp: 2257582

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#





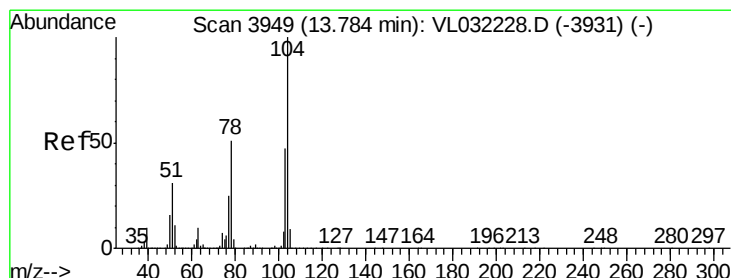
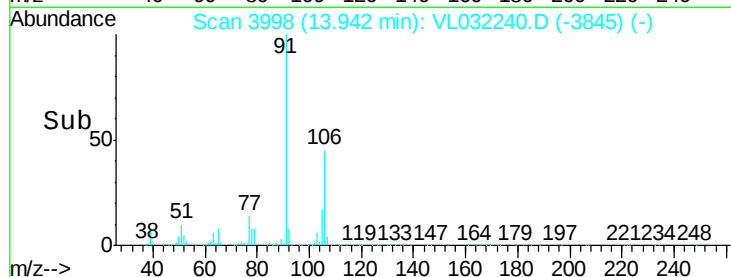
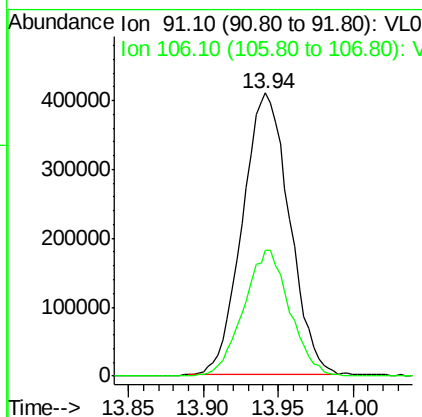
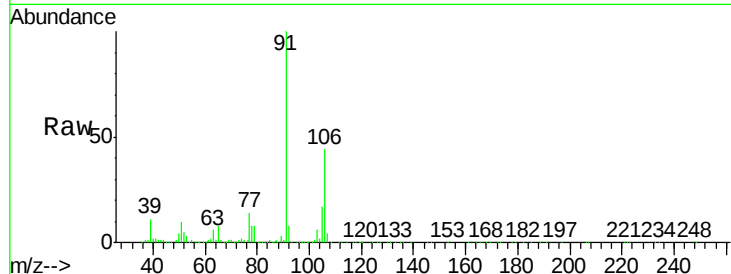
#60
o-Xylene
Concen: 1.71 ppbv
RT: 13.94 min Scan# 3998
Delta R.T. -0.01 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion	Ratio	Lower	Upper
91	100		
106	44.4	21.9	65.5

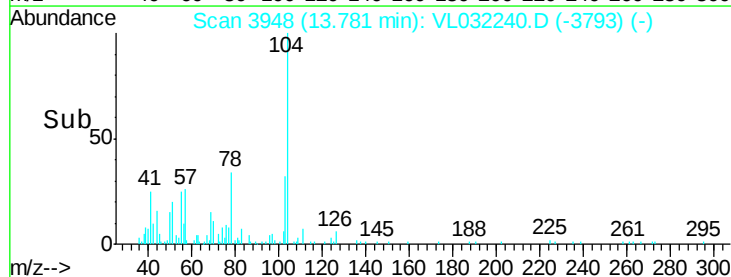
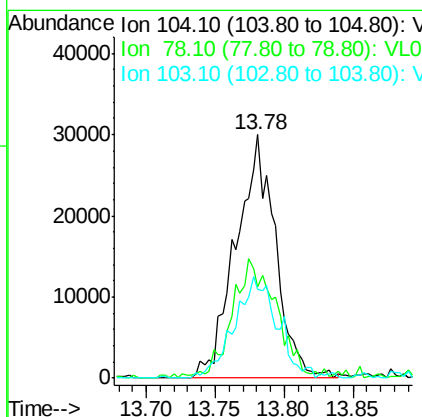
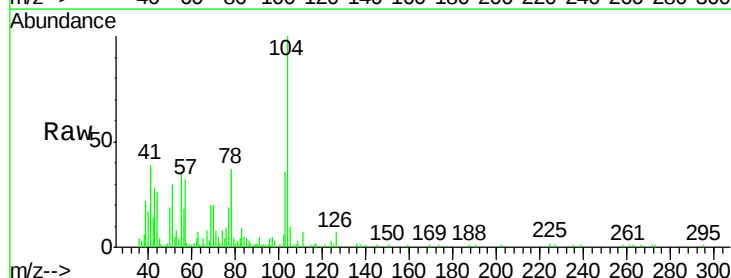
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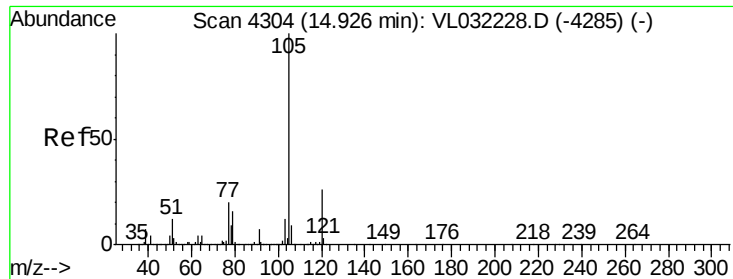
MMDadoda
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#61
Styrene
Concen: 0.15 ppbv m
RT: 13.78 min Scan# 3948
Delta R.T. -0.00 min
Lab File: VL032240.D
Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
104	100		
78	56.9	43.4	65.0
103	46.1	38.0	57.0





#62

Isopropylbenzene

Concen: 0.09 ppbv m

RT: 14.92 min Scan# 4302

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 105 Resp: 61959

Ion Ratio Lower Upper

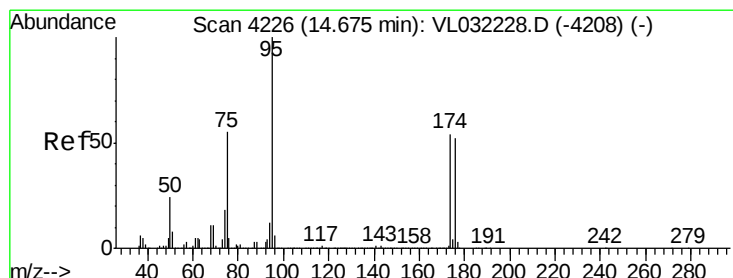
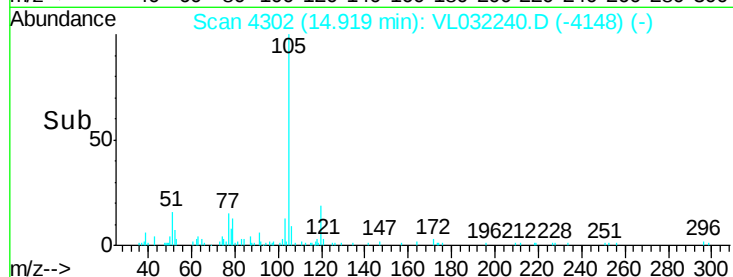
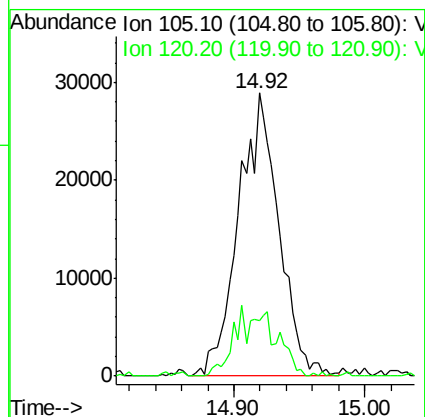
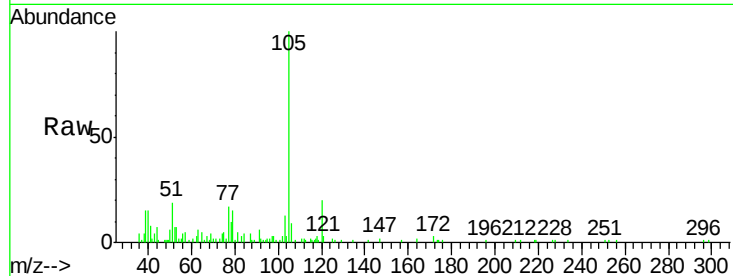
105 100

120 0.0 20.2 30.2#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.95 ppbv

RT: 14.67 min Scan# 4224

Delta R.T. -0.01 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

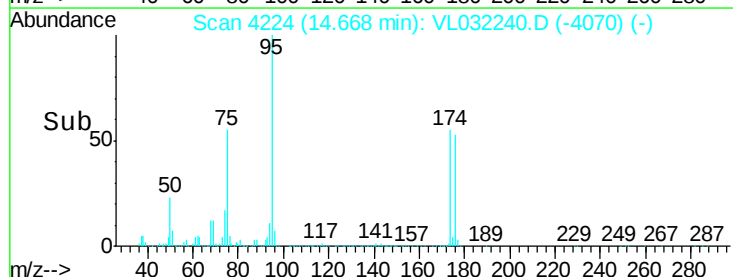
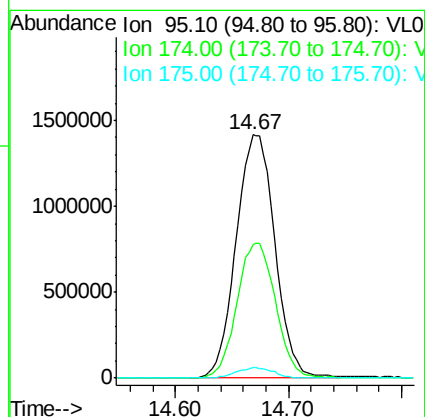
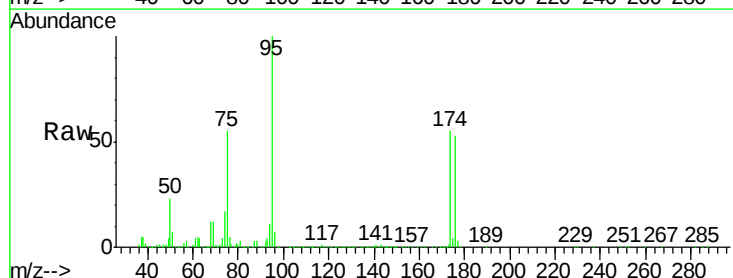
Tgt Ion: 95 Resp: 3382585

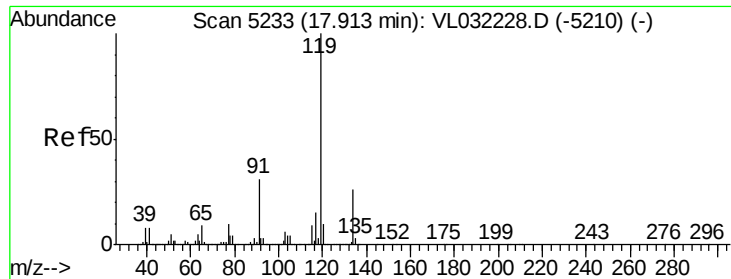
Ion Ratio Lower Upper

95 100

174 55.7 44.6 67.0

175 4.1 3.3 4.9





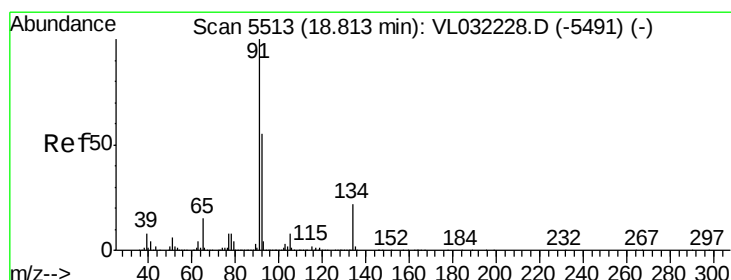
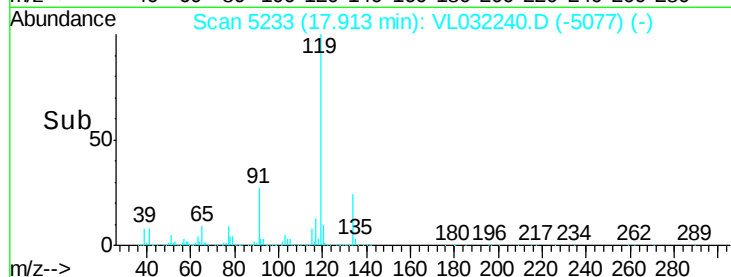
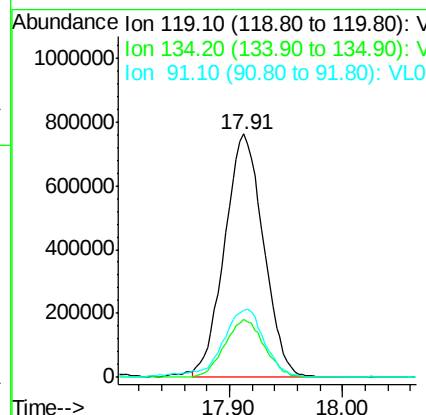
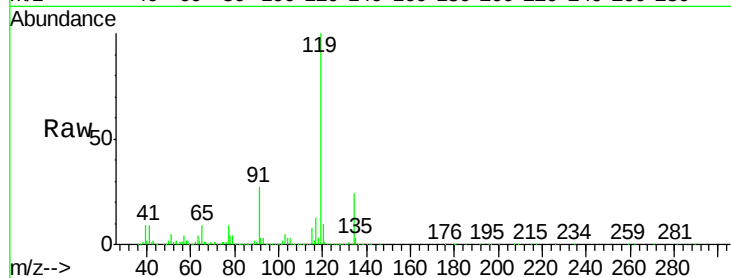
#69
 p-Isopropyltoluene
 Concen: 2.62 ppbv
 RT: 17.91 min Scan# 5233
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleID :
 MID

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.1	20.1	30.1
91	30.1	24.2	36.2

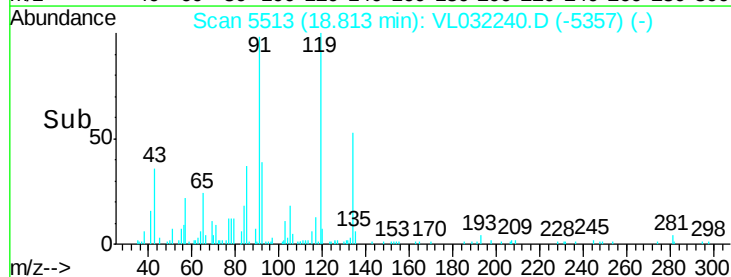
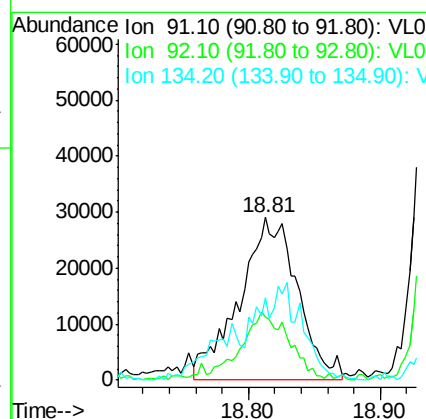
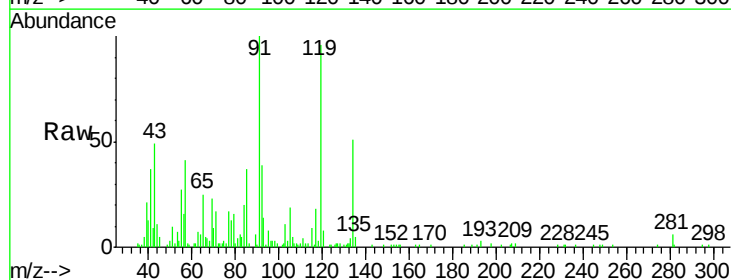
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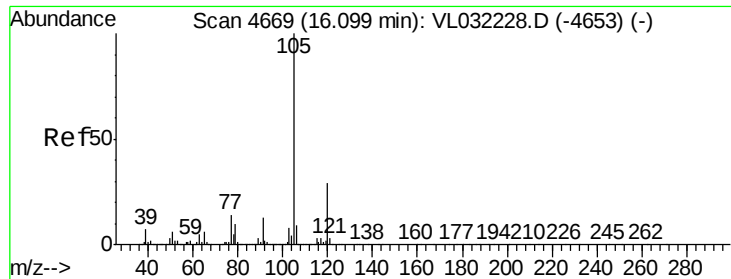
MMDadoda
 7/13/2018 5:22:20 PM



#70
 n-Butylbenzene
 Concen: 0.12 ppbv m
 RT: 18.81 min Scan# 5513
 Delta R.T. 0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.6	65.4#
134	64.1	17.1	25.7#





#72

4-Ethyltoluene

Concen: 0.50 ppbv

RT: 16.10 min Scan# 4668

Delta R.T. -0.00 min

Lab File: VL032240.D

Acq: 13 Jul 2018 6:57

Instrument :

MSVOA_L

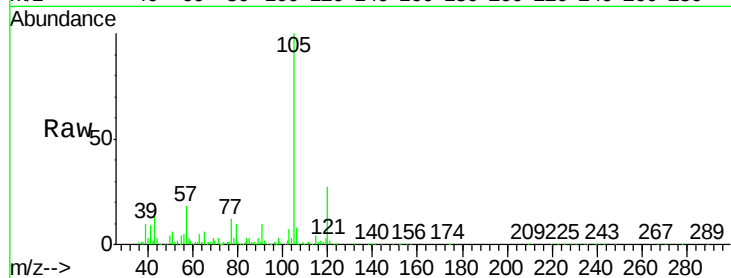
ClientSampled :

MID

Tot Ion:	105	Resp:	292636
Ion Ratio	Lower	Upper	
105	100		
120	29.1	23.3	34.9
91	11.7	10.3	15.5
77	14.2	11.5	17.3

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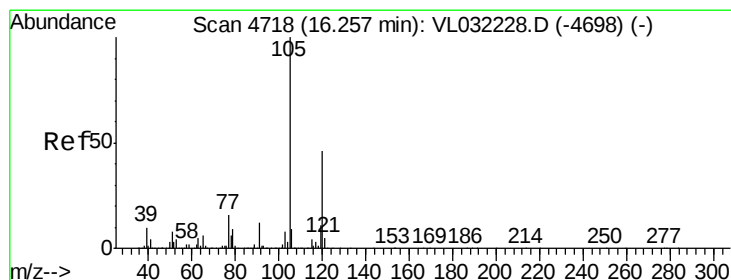
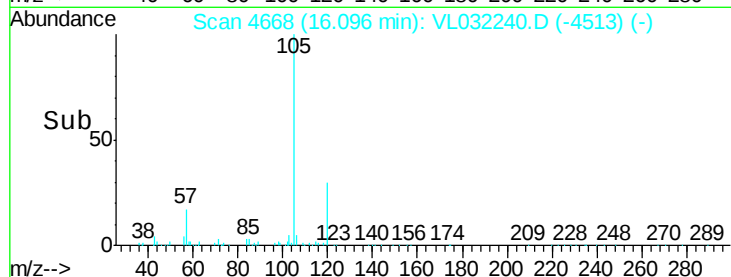
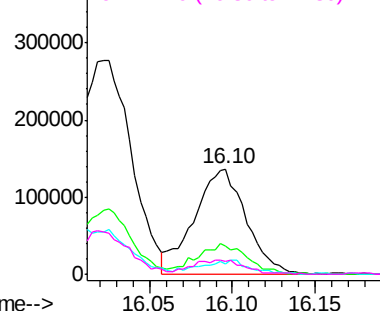


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.43 ppbv

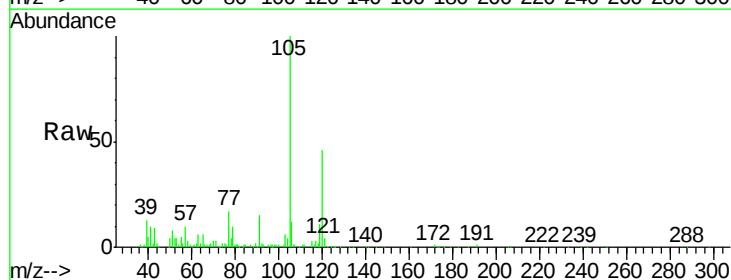
RT: 16.25 min Scan# 4716

Delta R.T. -0.01 min

Lab File: VL032240.D

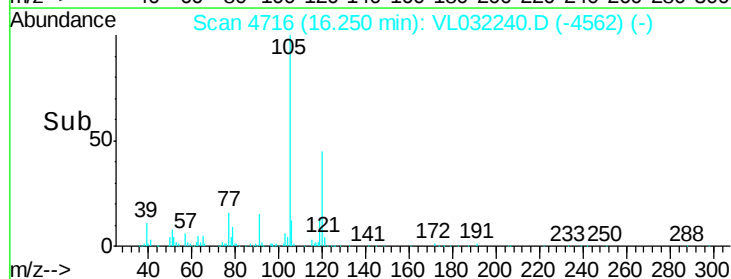
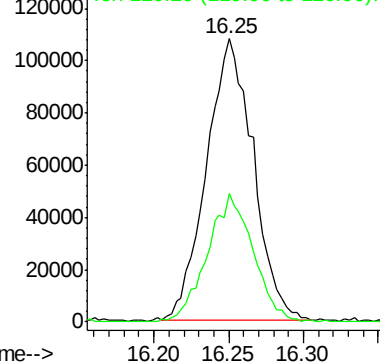
Acq: 13 Jul 2018 6:57

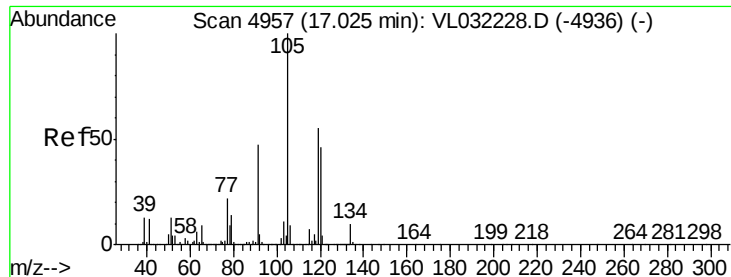
Tgt Ion:	105	Resp:	234630
Ion Ratio	Lower	Upper	
105	100		
120	45.2	36.6	54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





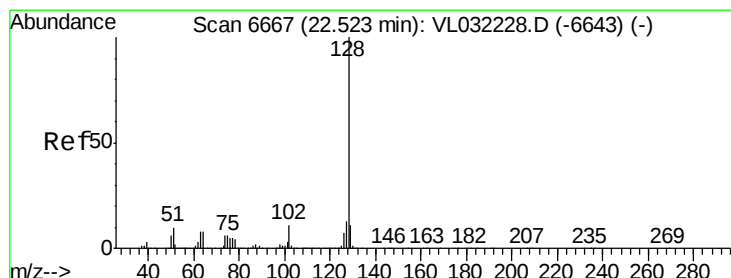
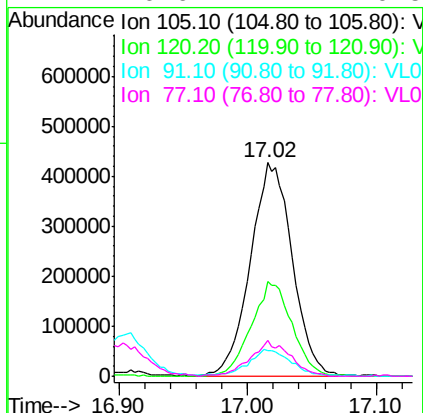
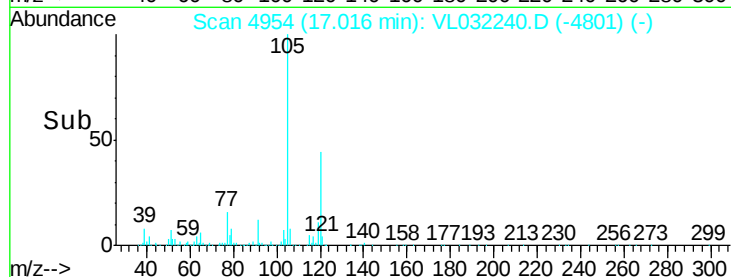
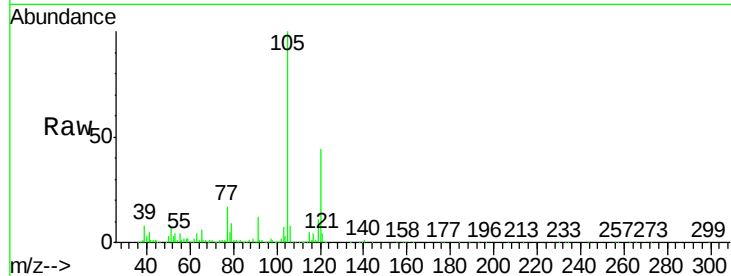
#74
 1,2,4-Trimethylbenzene
 Concen: 1.74 ppbv
 RT: 17.02 min Scan# 4954
 Delta R.T. -0.01 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampled :
 MID

Tot Ion:	105	Resp:	963368
Ion Ratio	Lower	Upper	
105	100		
120	44.5	37.0	55.4
91	11.2	38.2	57.2#
77	16.6	17.7	26.5#

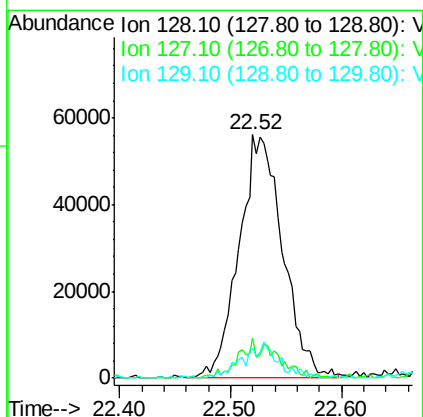
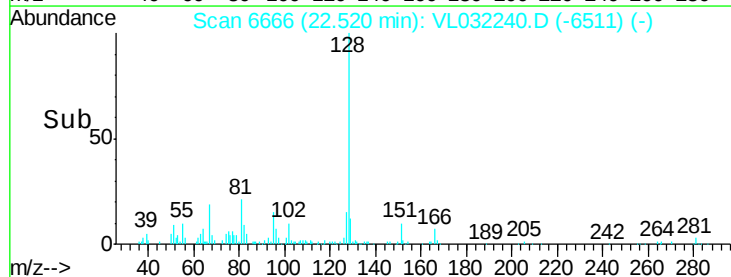
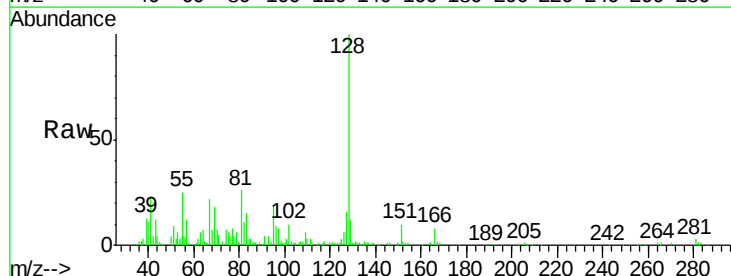
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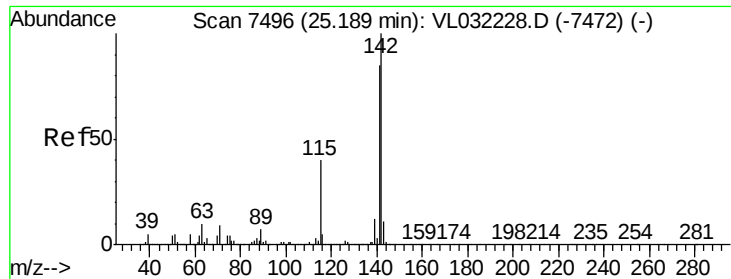
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#79
 Naphthalene
 Concen: 0.41 ppbv m
 RT: 22.52 min Scan# 6666
 Delta R.T. -0.00 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Tgt Ion:	128	Resp:	153274
Ion Ratio	Lower	Upper	
128	100		
127	16.5	10.0	15.0#
129	12.0	9.0	13.4





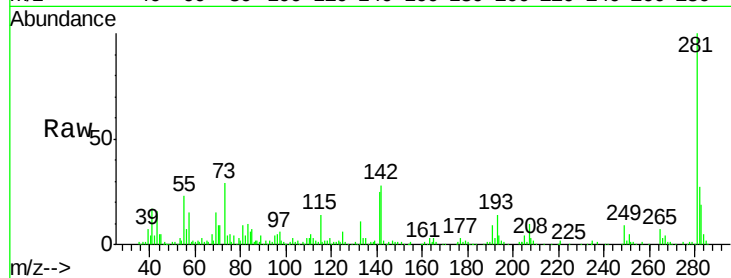
#80
 Naphthalene, 2-methyl-
 Concen: 0.50 ppbv
 RT: 25.18 min Scan# 7494
 Delta R.T. -0.01 min
 Lab File: VL032240.D
 Acq: 13 Jul 2018 6:57

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion:	142	Resp:	59144
Ion Ratio	Lower	Upper	
142	100		
141	81.4	67.0	100.6
115	48.6	32.6	49.0

Manual Integrations
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 7/13/2018 5:22:20 PM



Abundance Ion 142.00 (141.70 to 142.70): V
 Ion 141.00 (140.70 to 141.70): V
 Ion 115.00 (114.70 to 115.70): V

