

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL060118\
 Data File : VL032033.D
 Acq On : 1 Jun 2018 22:55
 Operator : SY/AP
 Sample : J3193-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-052518DUP

Manual Integrations
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 6/4/2018 3:35:50 PM

Quant Time: Jun 03 13:56:26 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1283787	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2349717	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2231379	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	1782147	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.15	85	30266	0.20	ppbv	98
3) Chlorodifluoromethane	3.08	51	58623m	0.49	ppbv	
4) Chloromethane	3.24	50	34542	0.56	ppbv #	87
10) Heptane	8.36	43	93732	0.67	ppbv	99
11) Trichlorofluoromethane	4.09	101	43345	0.18	ppbv	89
13) Ethanol	3.79	45	36859482m	2391.30	ppbv	
15) Acetone	3.98	43	1458232	9.42	ppbv #	88
19) Isopropyl Alcohol	4.19	45	2973973m	29.02	ppbv	
20) Methylene Chloride	4.50	84	139508	1.98	ppbv	97
25) Ethyl Acetate	5.88	43	614150	2.00	ppbv #	97
26) Hexane	5.88	57	398513	2.80	ppbv #	77
29) Chloroform	5.95	83	63003m	0.26	ppbv	
34) 2-Butanone	5.43	43	121988m	0.66	ppbv	
35) Carbon Tetrachloride	7.25	117	14057m	0.07	ppbv	
36) Benzene	7.12	78	154739	0.75	ppbv	98
44) 2,2,4-Trimethylpentane	8.11	57	540129	1.53	ppbv	90
52) Tetrachloroethene	11.50	164	9234m	0.11	ppbv	
53) Toluene	10.07	91	1186115	5.14	ppbv	99
58) Ethyl Benzene	12.99	91	71787m	0.23	ppbv	
59) m/p-Xylene	13.24	91	187830m	0.68	ppbv	
60) o-Xylene	13.97	91	76976	0.28	ppbv	97
61) Styrene	13.82	104	38097m	0.71	ppbv	
73) 1,3,5-Trimethylbenzene	16.28	105	44995	0.18	ppbv	99
74) 1,2,4-Trimethylbenzene	17.05	105	131429	0.46	ppbv #	71

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

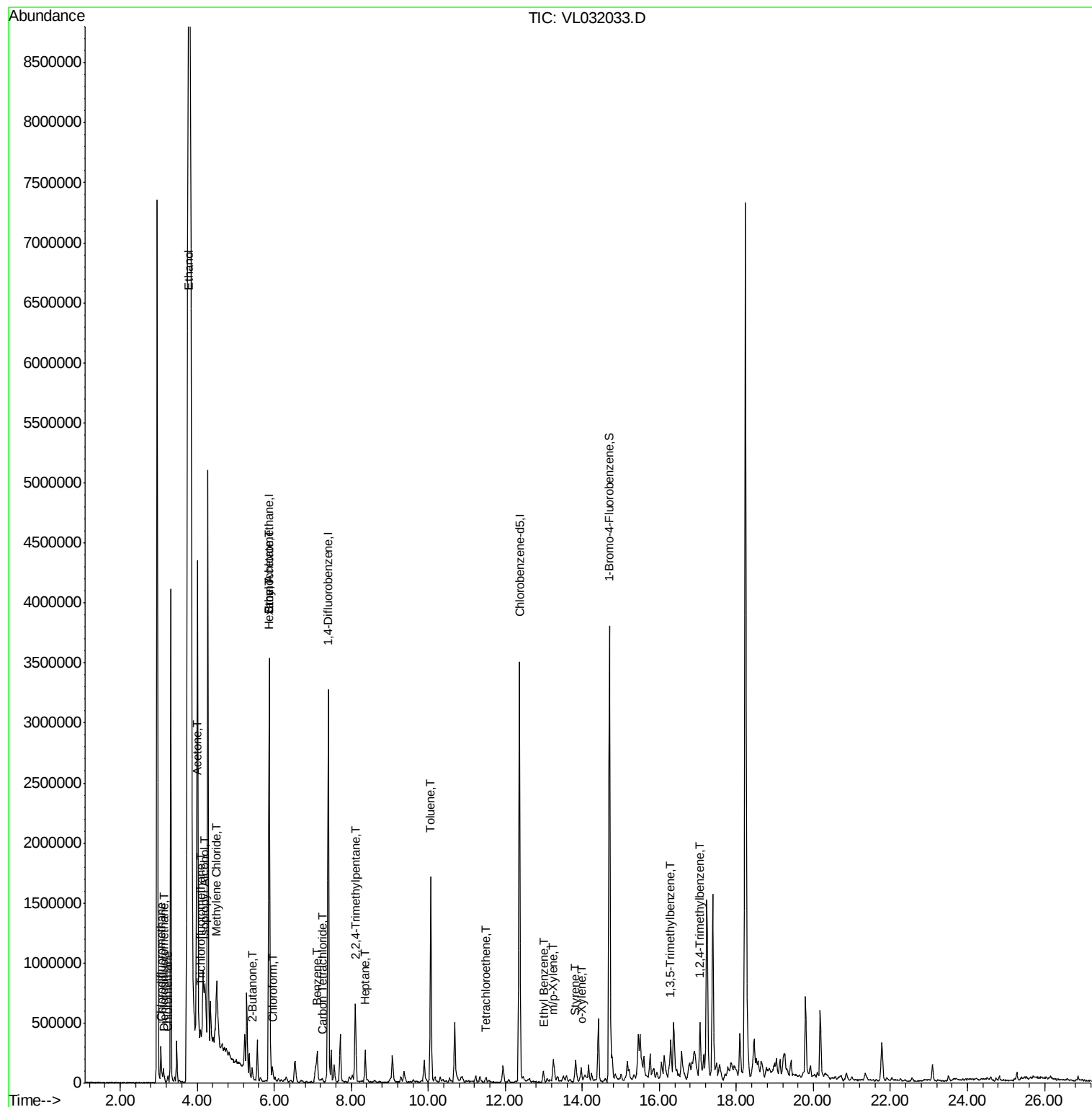
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL060118\
Data File : VL032033.D
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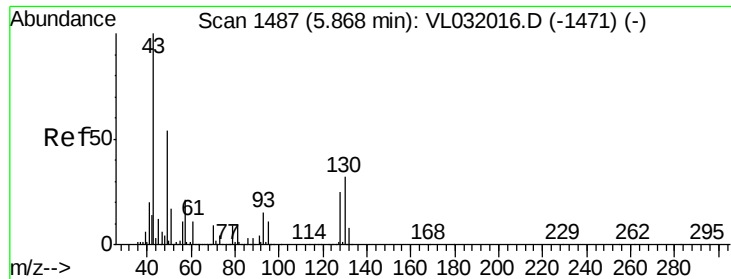
Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Manual Integrations
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Quant Time: Jun 03 13:56:26 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 01 02:31:35 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-052518DUP

Tot Ion: 49 Resp: 1283787

Ion Ratio Lower Upper

49 100

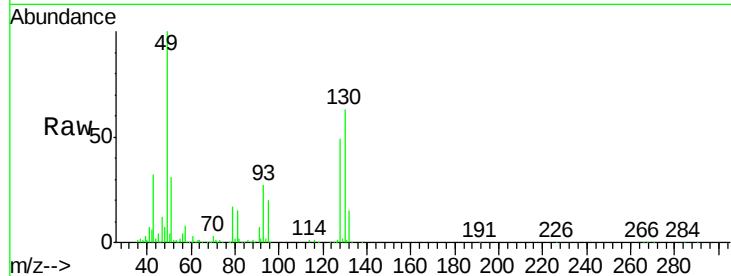
128 48.8 24.1 72.3

130 63.0 30.9 92.8

Manual Integrations
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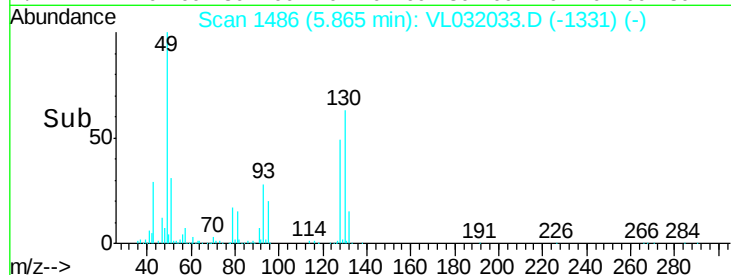


Abundance Ion 49.10 (48.80 to 49.80): VL0

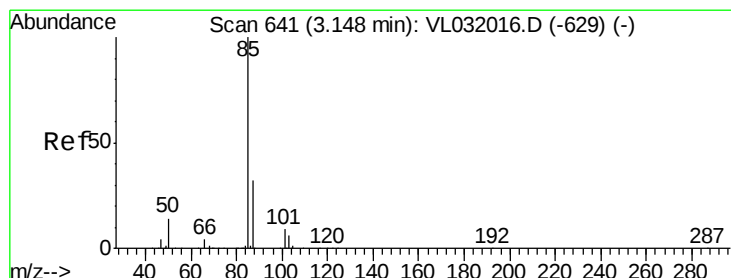
Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.20 ppbv

RT: 3.15 min Scan# 642

Delta R.T. 0.00 min

Lab File: VL032033.D

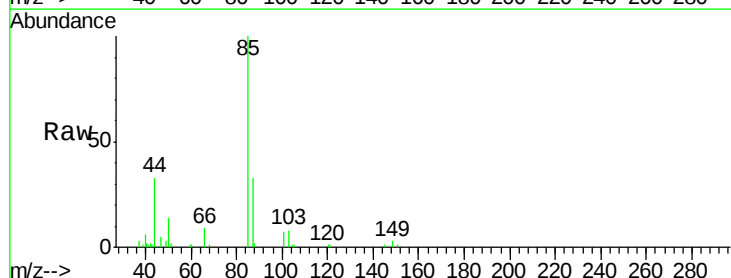
Acq: 1 Jun 2018 22:55

Tgt Ion: 85 Resp: 30266

Ion Ratio Lower Upper

85 100

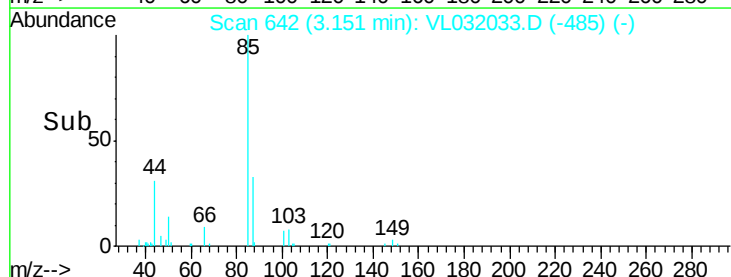
87 33.2 25.5 38.3



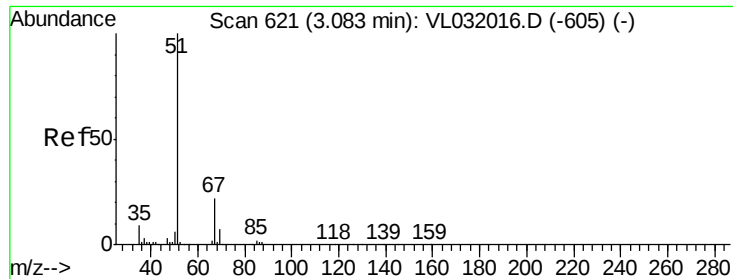
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 0.49 ppbv m

RT: 3.08 min Scan# 620

Delta R.T. -0.00 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-052518DUP

Tot Ion: 51 Resp: 58623

Ion Ratio Lower Upper

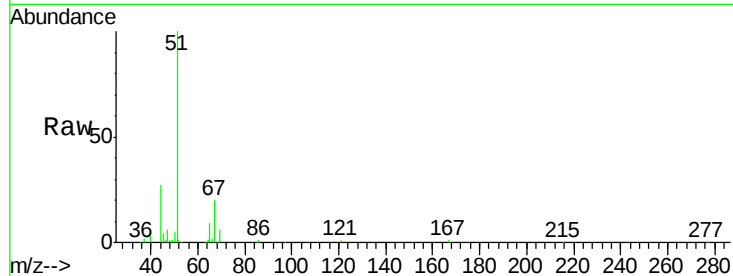
51 100

67 22.2 17.2 25.8

Manual Integrations
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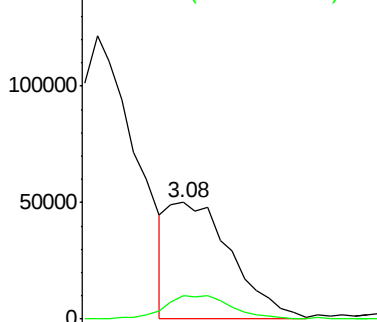
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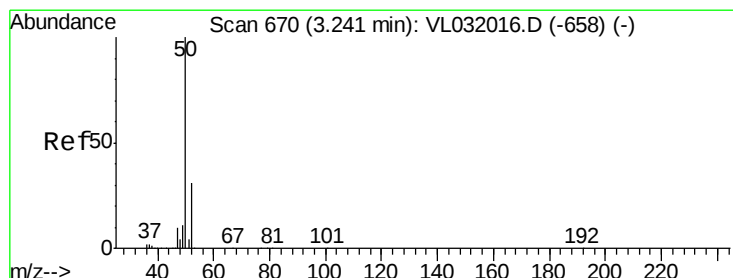
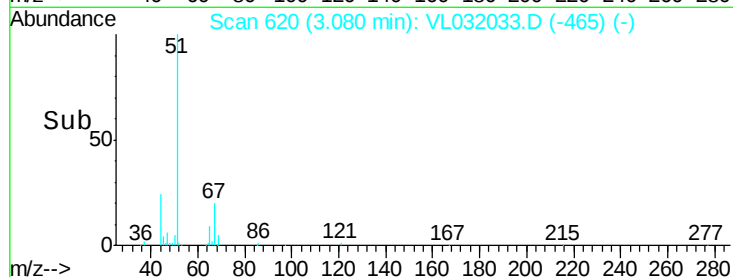


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.56 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032033.D

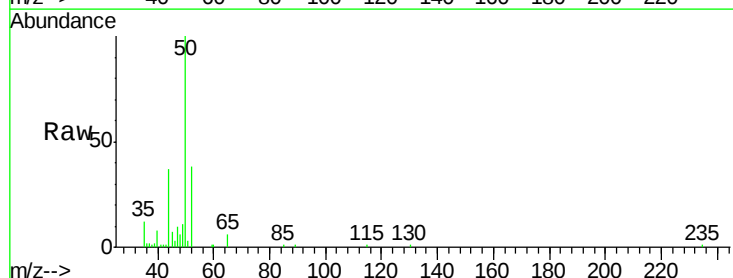
Acq: 1 Jun 2018 22:55

Tgt Ion: 50 Resp: 34542

Ion Ratio Lower Upper

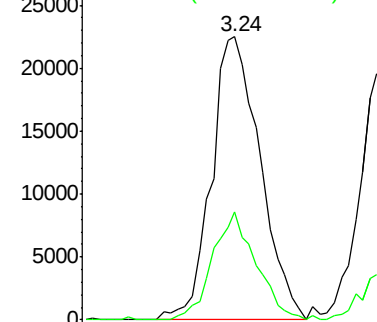
50 100

52 38.2 25.0 37.6#

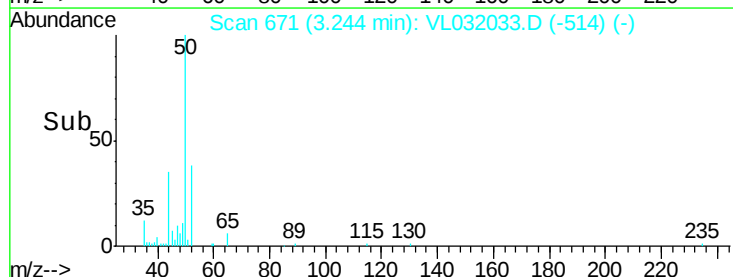


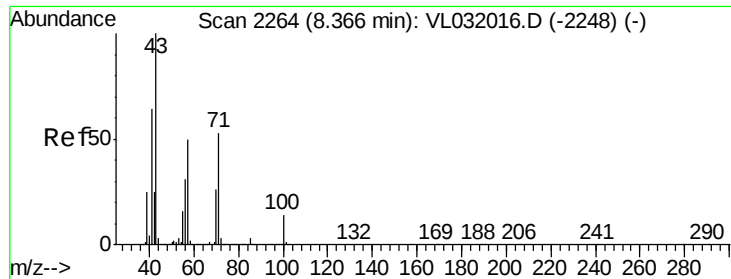
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





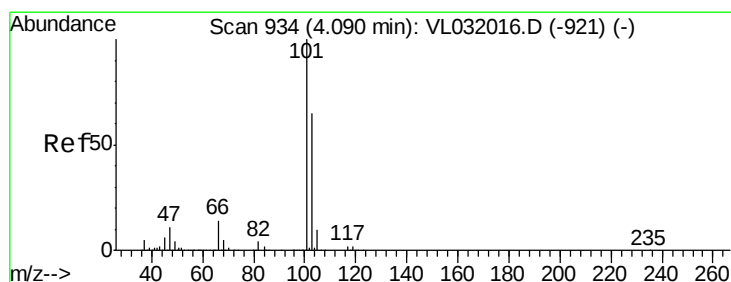
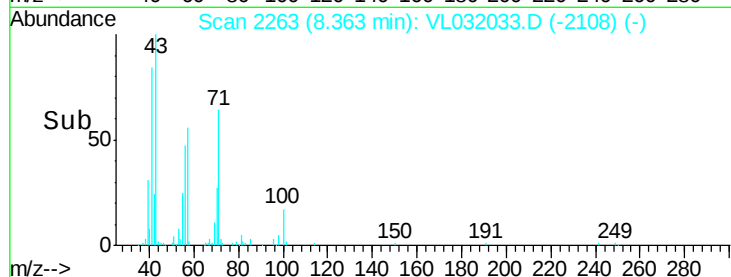
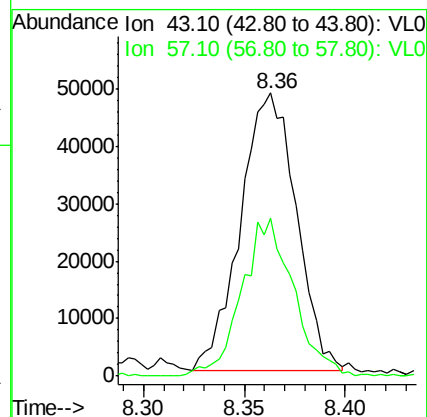
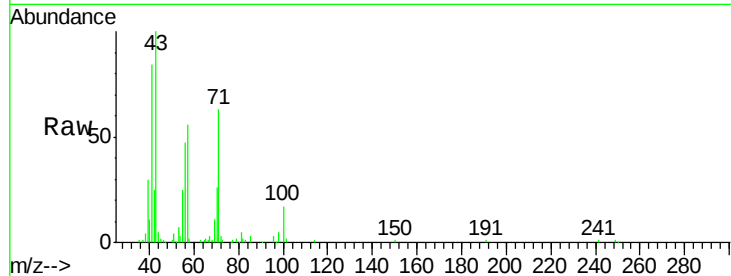
#10
Heptane
Concen: 0.67 ppbv
RT: 8.36 min Scan# 2263
Delta R.T. -0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion: 43 Resp: 93732
Ion Ratio Lower Upper
43 100
57 52.5 41.7 62.5

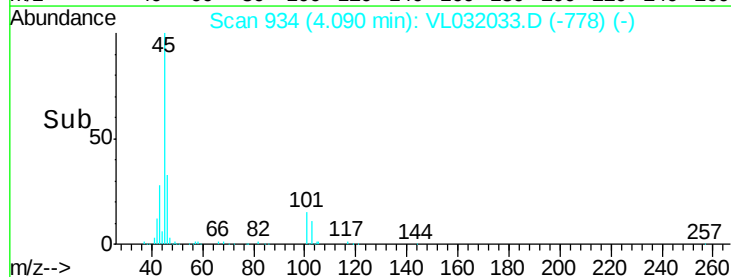
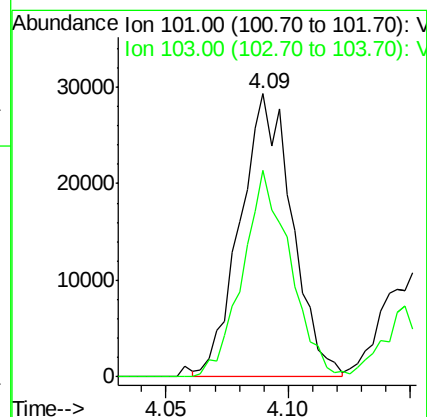
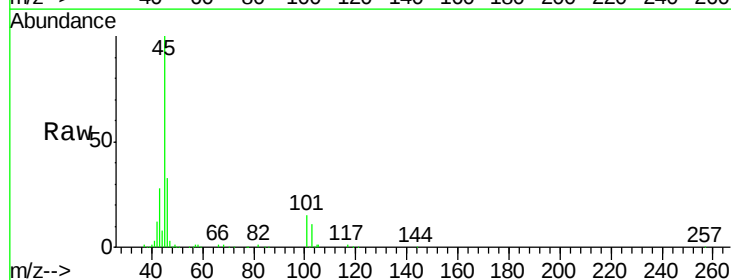
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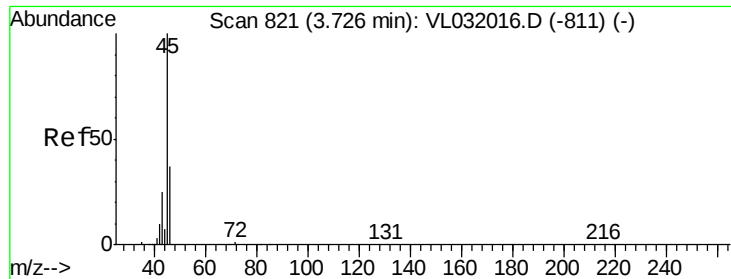
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#11
Trichlorofluoromethane
Concen: 0.18 ppbv
RT: 4.09 min Scan# 934
Delta R.T. 0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion: 101 Resp: 43345
Ion Ratio Lower Upper
101 100
103 74.0 52.0 78.0





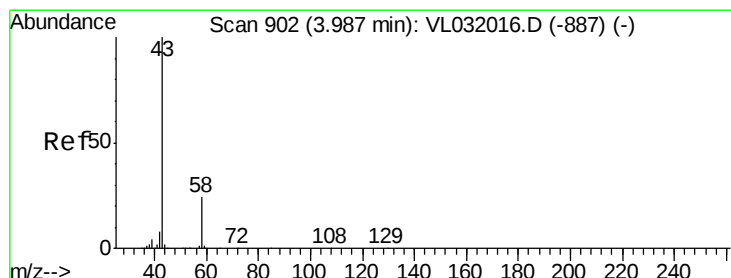
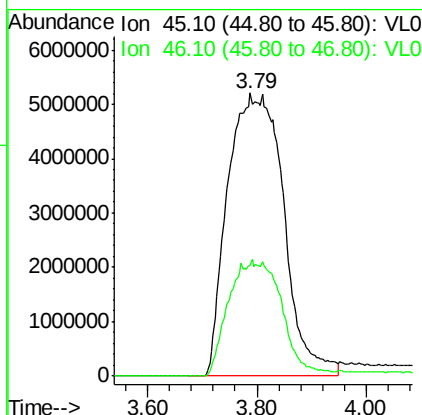
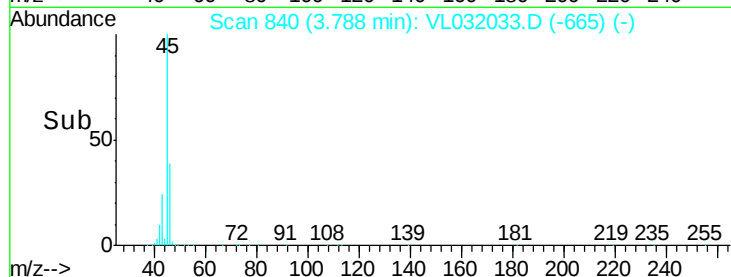
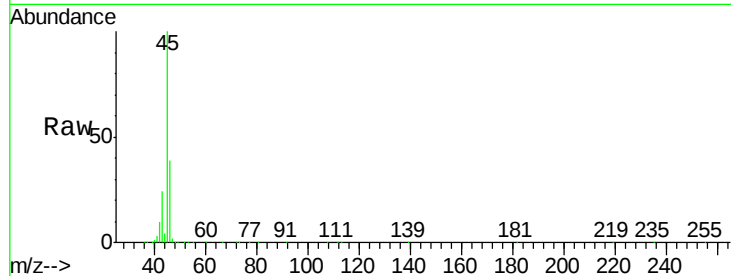
#13
Ethanol
Concen: 2391.30 ppbv m
RT: 3.79 min Scan# 840
Delta R.T. 0.06 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion: 45 Resp: 36859482
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.5#

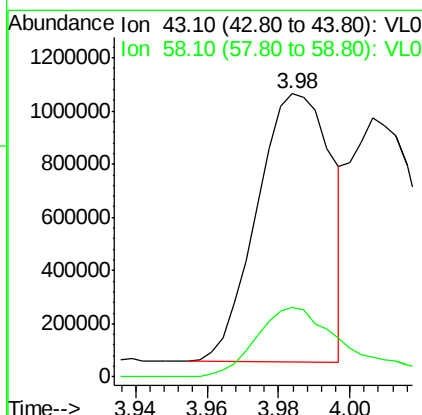
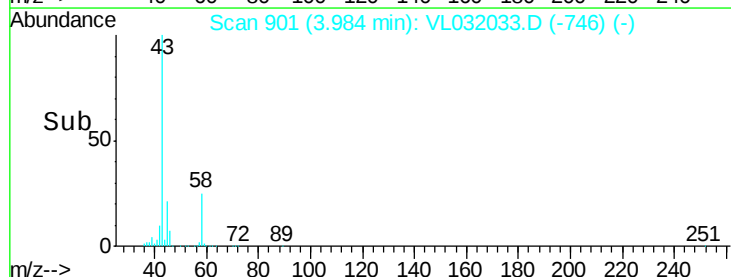
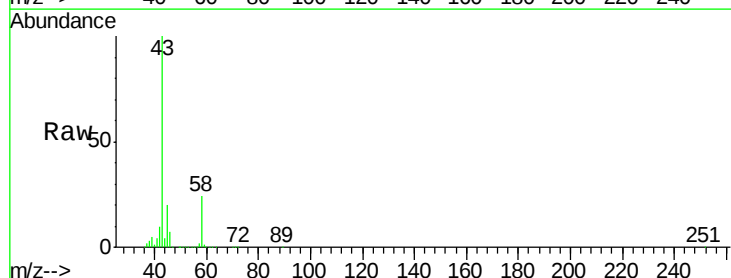
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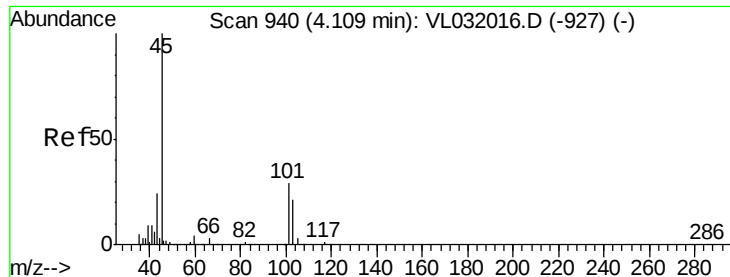
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#15
Acetone
Concen: 9.42 ppbv
RT: 3.98 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion: 43 Resp: 1458232
Ion Ratio Lower Upper
43 100
58 31.8 20.7 31.1#





#19

Isopropyl Alcohol

Concen: 29.02 ppbv m

RT: 4.19 min Scan# 966

Delta R.T. 0.08 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-052518DUP

Tot Ion: 45 Resp: 2973973

Ion Ratio Lower Upper

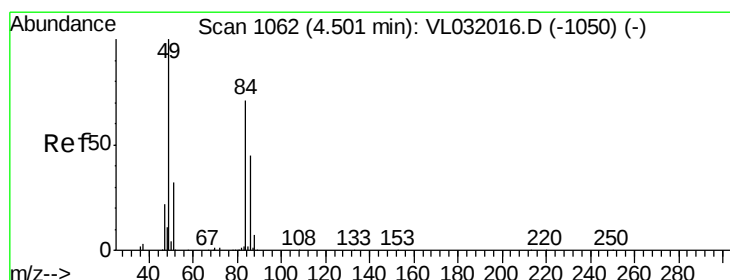
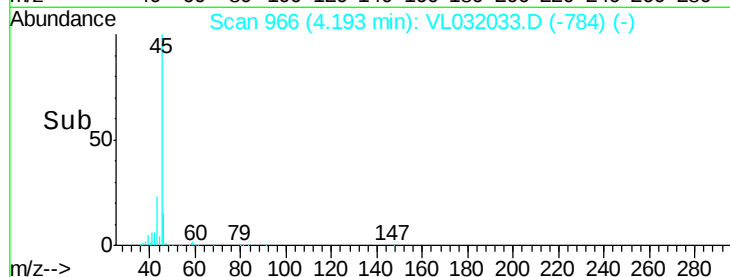
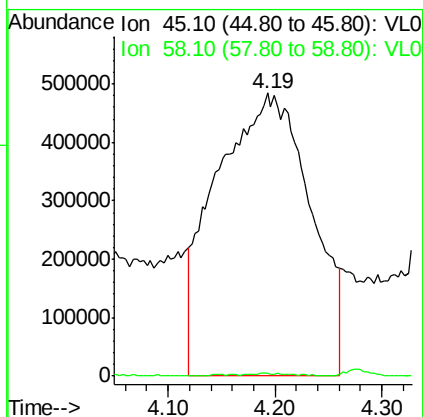
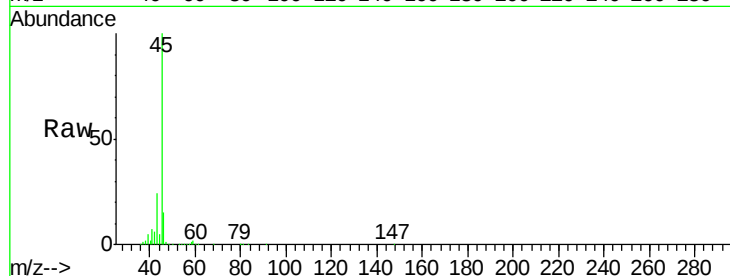
45 100

58 0.0 1.5 2.3#

Manual Integrations
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#20

Methylene Chloride

Concen: 1.98 ppbv

RT: 4.50 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Tgt Ion: 84 Resp: 139508

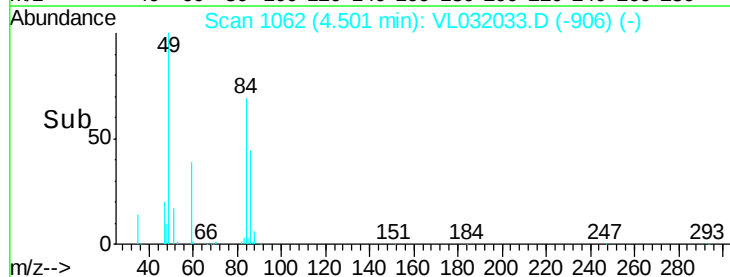
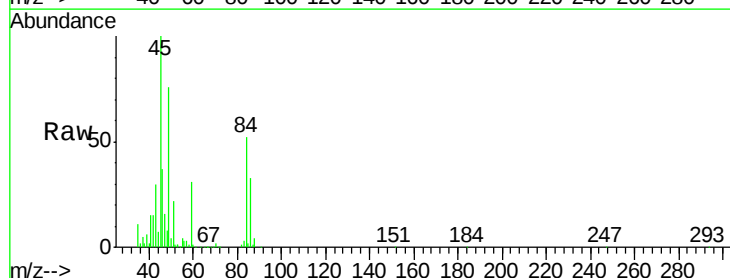
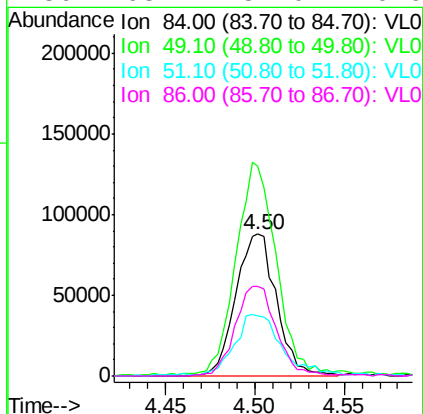
Ion Ratio Lower Upper

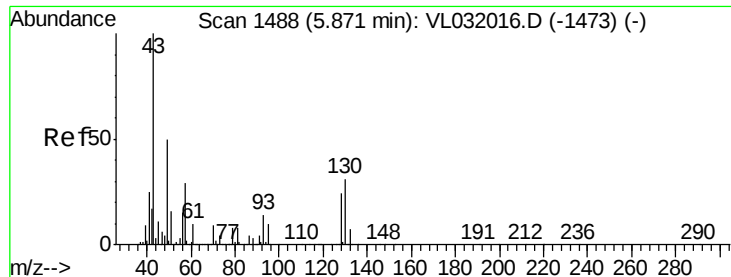
84 100

49 145.6 113.0 169.4

51 42.0 36.4 54.6

86 63.4 51.0 76.6





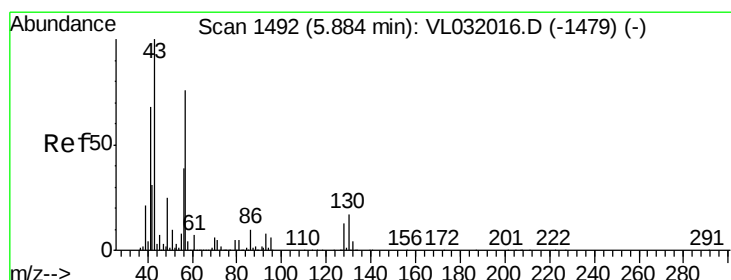
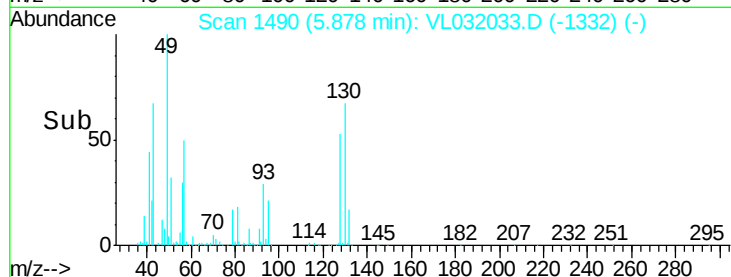
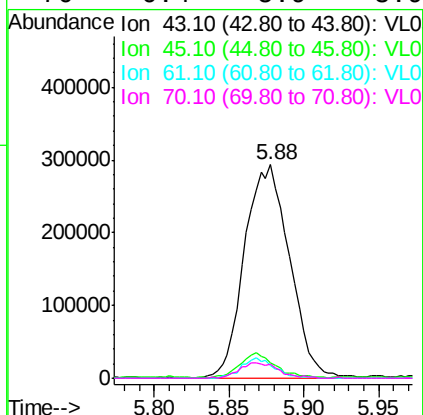
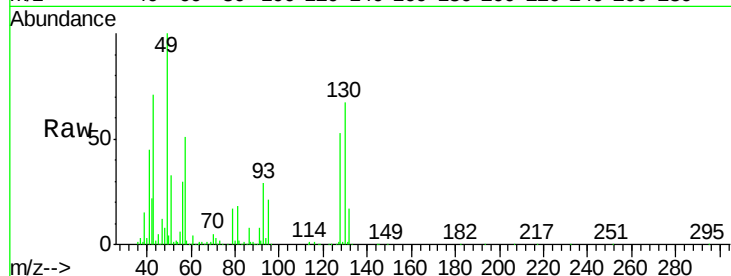
#25
Ethyl Acetate
Concen: 2.00 ppbv
RT: 5.88 min Scan# 1490
Delta R.T. 0.01 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.6
61	7.3	7.4	11.2#
70	6.4	5.9	8.9

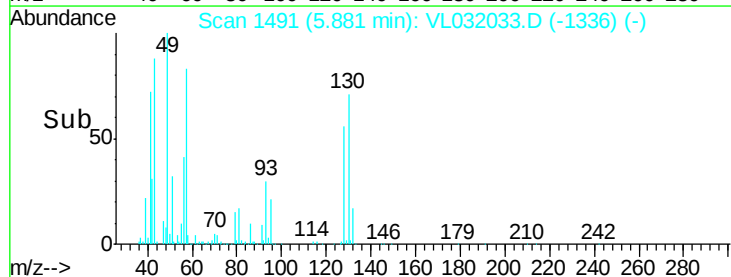
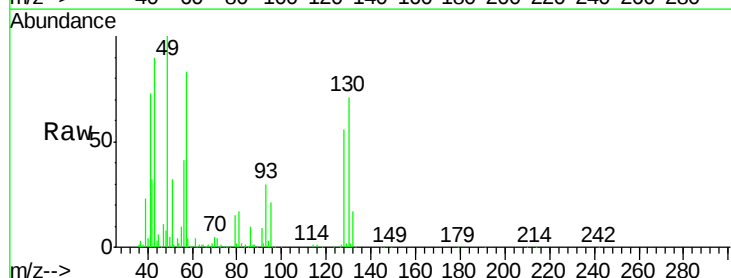
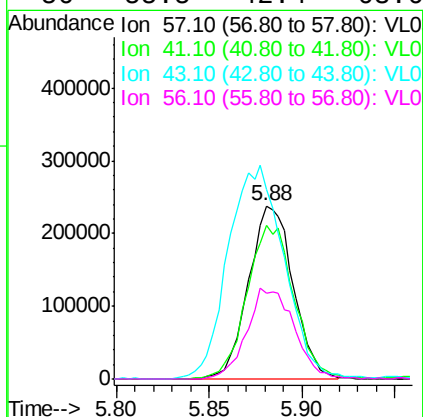
Manual Integrations
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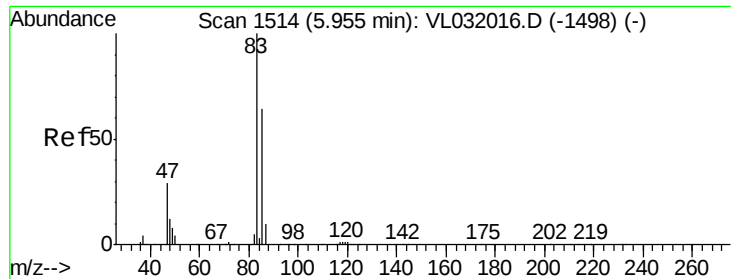
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#26
Hexane
Concen: 2.80 ppbv
RT: 5.88 min Scan# 1491
Delta R.T. -0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.3	71.4	107.2
43	154.4	168.6	252.8#
56	55.5	42.4	63.6





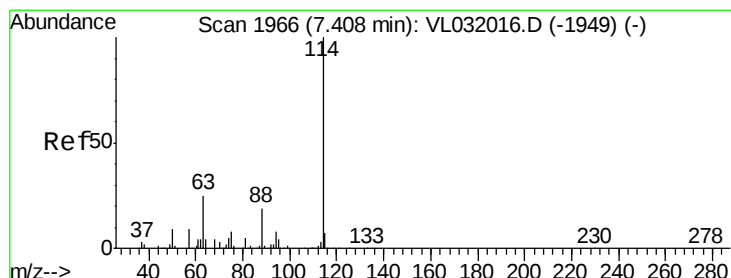
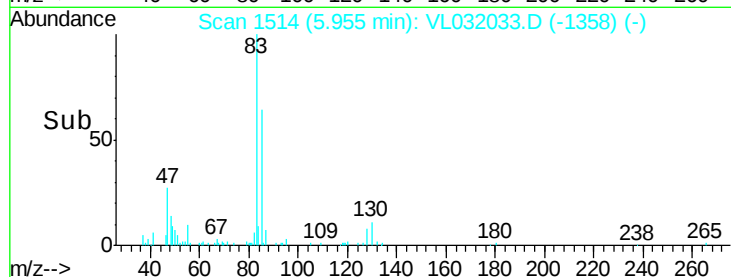
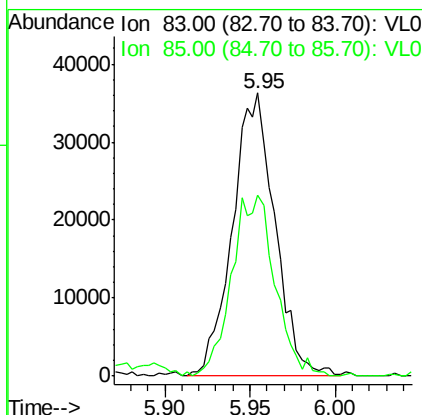
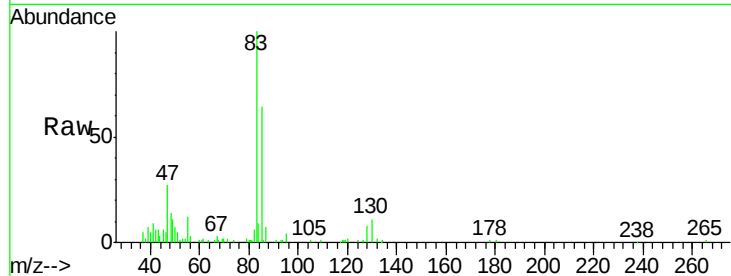
#29
Chloroform
Concen: 0.26 ppbv m
RT: 5.95 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion: 83 Resp: 63003
Ion Ratio Lower Upper
83 100
85 64.0 50.9 76.3

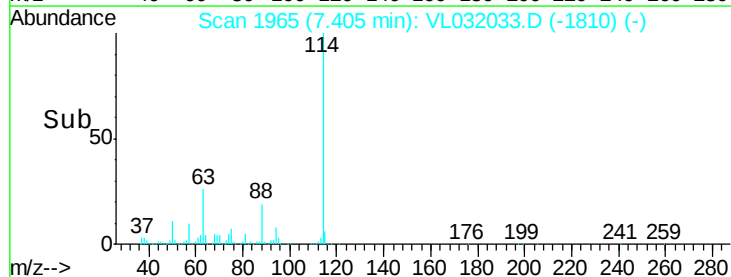
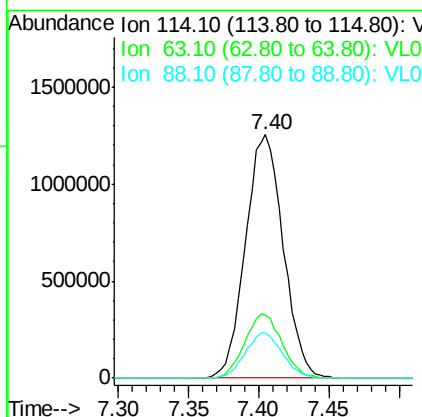
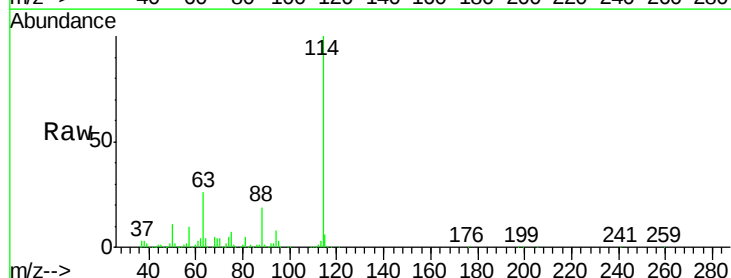
Manual Integrations
APPROVED

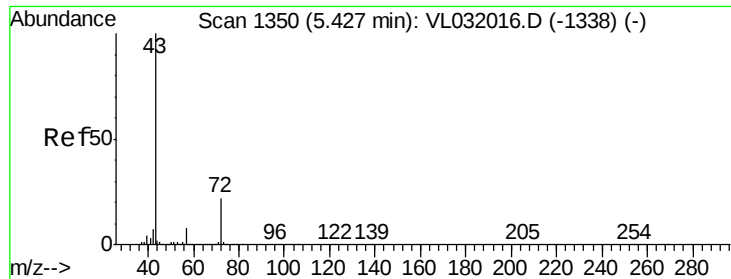
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6/4/2018 3:35:50 PM



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.40 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion: 114 Resp: 2349717
Ion Ratio Lower Upper
114 100
63 26.3 21.1 31.7
88 18.5 14.8 22.2





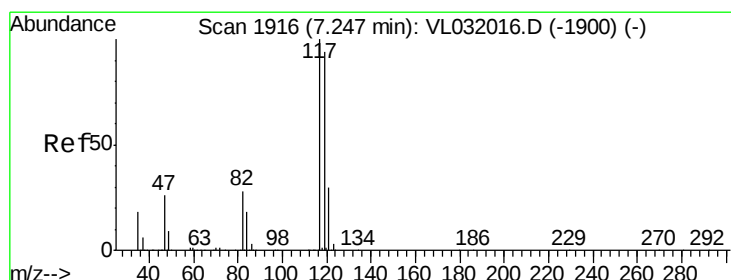
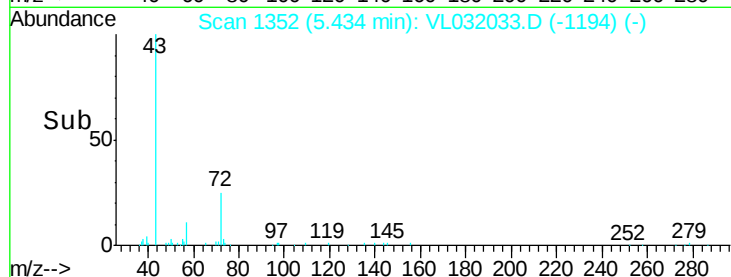
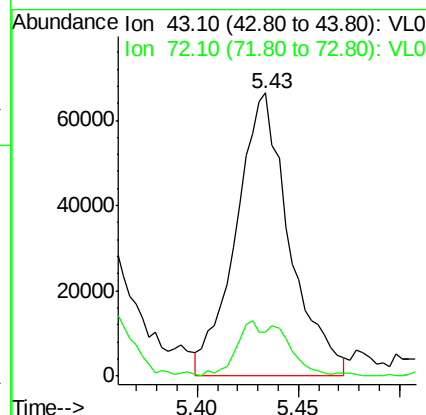
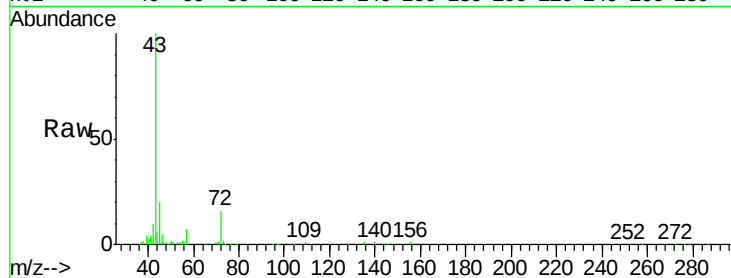
#34
2-Butanone
Concen: 0.66 ppbv m
RT: 5.43 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion: 43 Resp: 121988
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#

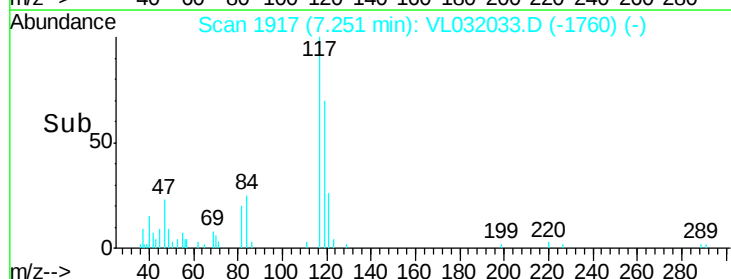
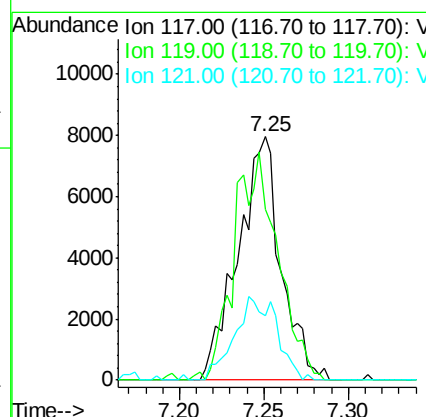
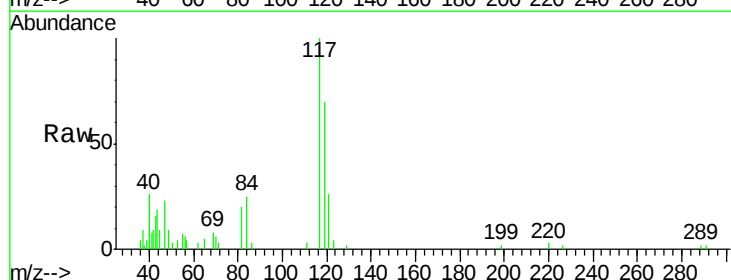
Manual Integrations
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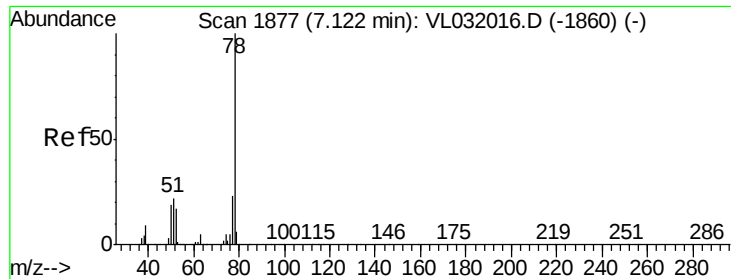
MMDadoda
6/4/2018 3:35:50 PM



#35
Carbon Tetrachloride
Concen: 0.07 ppbv m
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion: 117 Resp: 14057
Ion Ratio Lower Upper
117 100
119 69.8 75.3 112.9#
121 26.4 24.1 36.1





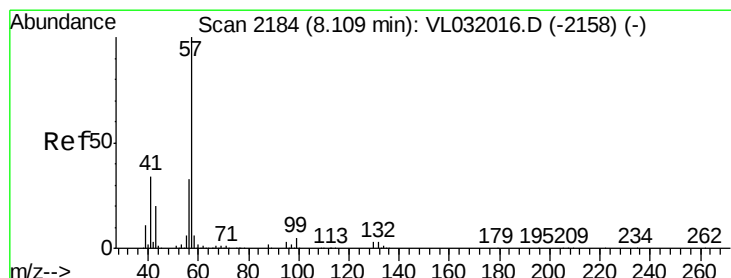
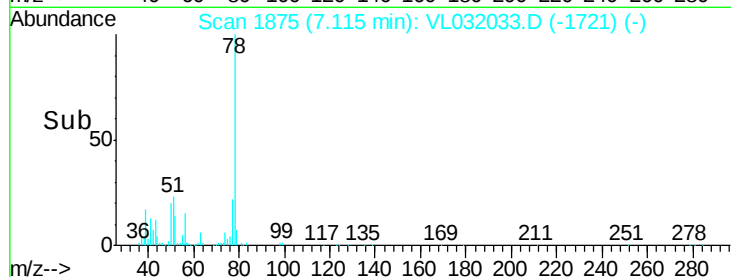
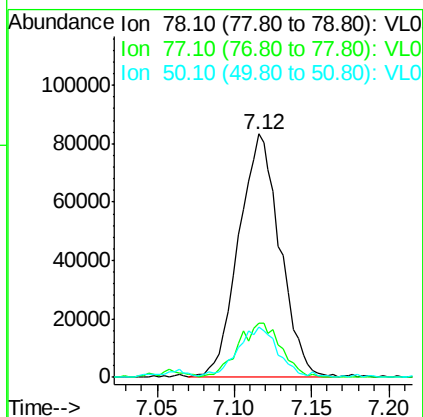
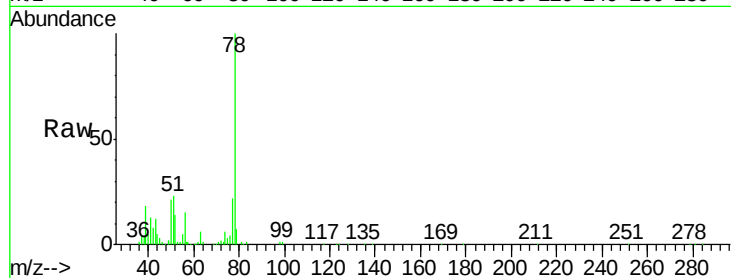
#36
Benzene
Concen: 0.75 ppbv
RT: 7.12 min Scan# 1875
Delta R.T. -0.01 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.1	27.1
50	20.0	14.9	22.3

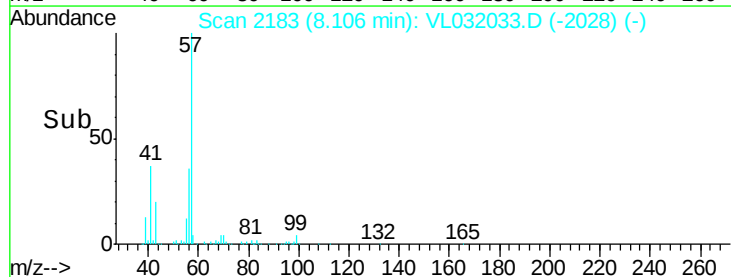
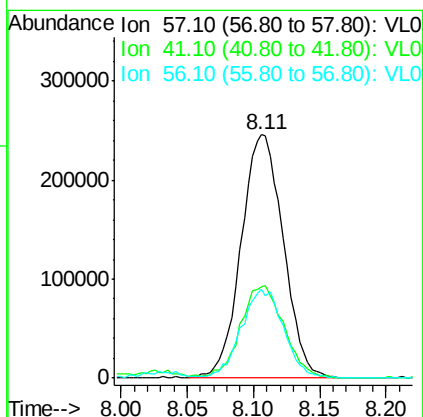
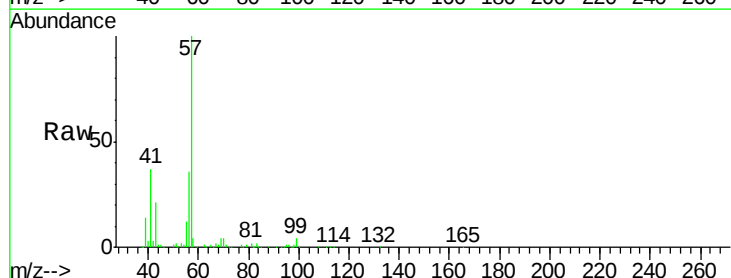
Manual Integrations
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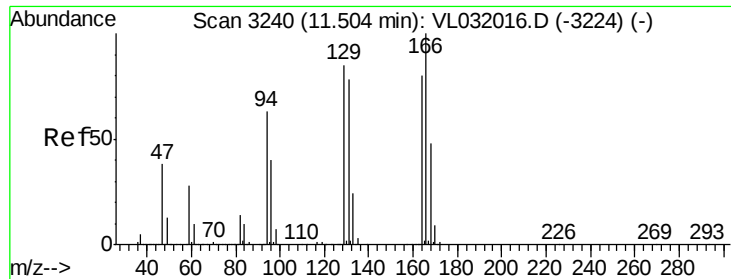
MMDadoda
6/4/2018 3:35:50 PM



#44
2,2,4-Trimethylpentane
Concen: 1.53 ppbv
RT: 8.11 min Scan# 2183
Delta R.T. -0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	38.9	26.6	40.0
56	37.2	24.9	37.3





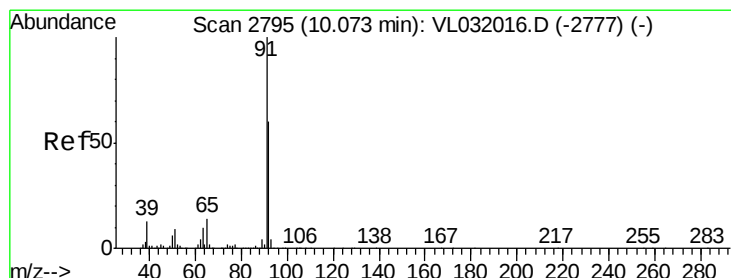
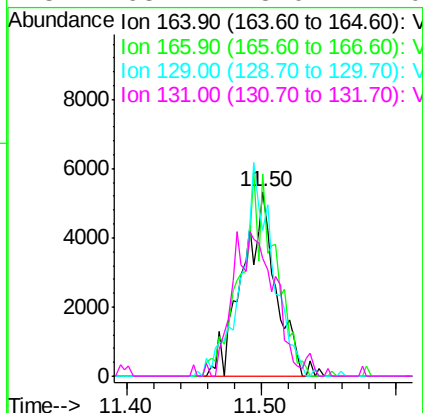
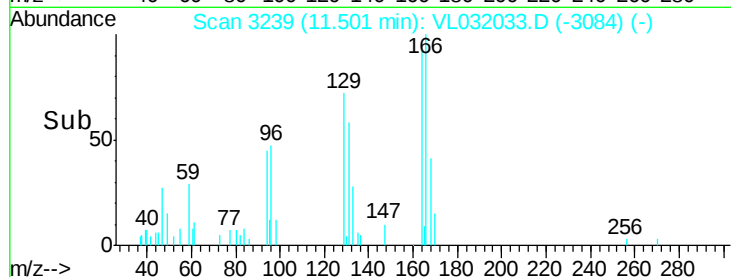
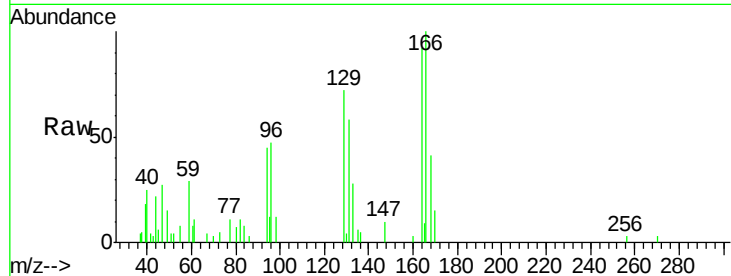
#52
Tetrachloroethene
Concen: 0.11 ppbv m
RT: 11.50 min Scan# 3239
Delta R.T. -0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion	Ratio	Lower	Upper
164	100		
166	109.3	100.2	150.2
129	78.7	85.4	128.0#
131	63.7	78.0	117.0#

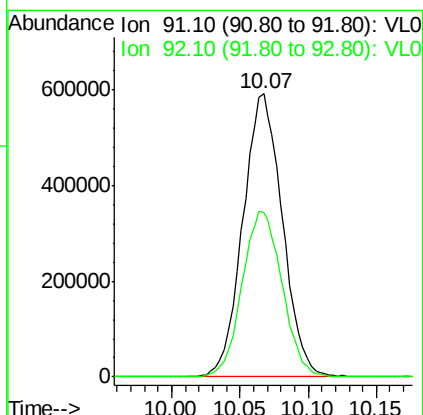
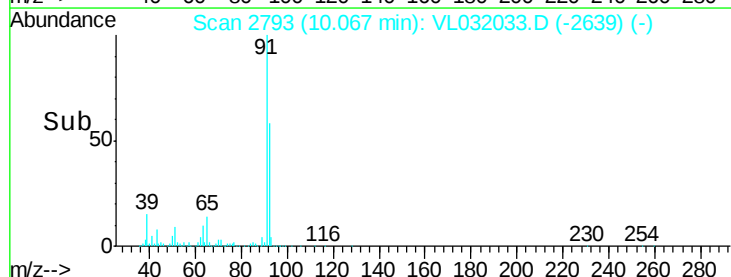
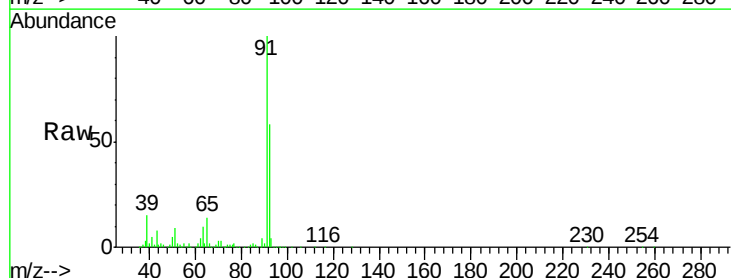
Manual Integrations
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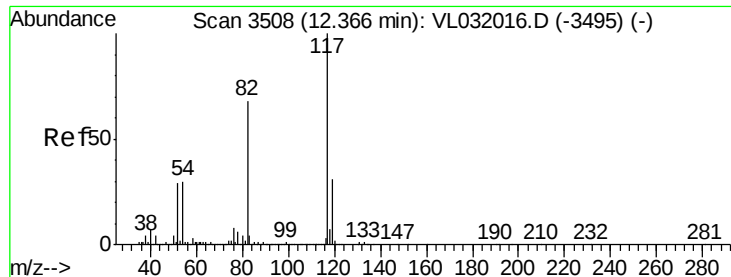
MMDadoda
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#53
Toluene
Concen: 5.14 ppbv
RT: 10.07 min Scan# 2793
Delta R.T. -0.01 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2





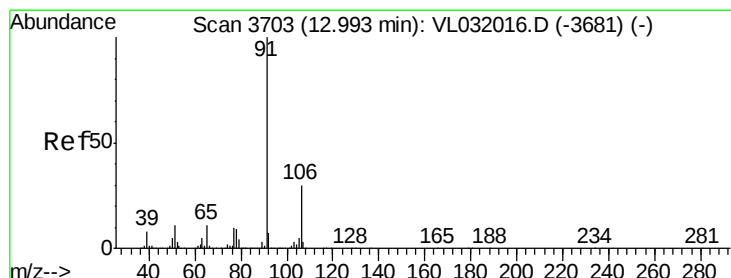
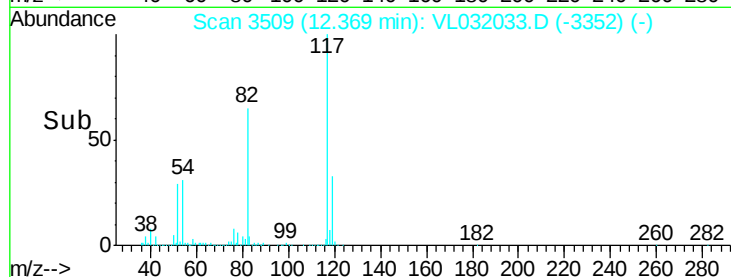
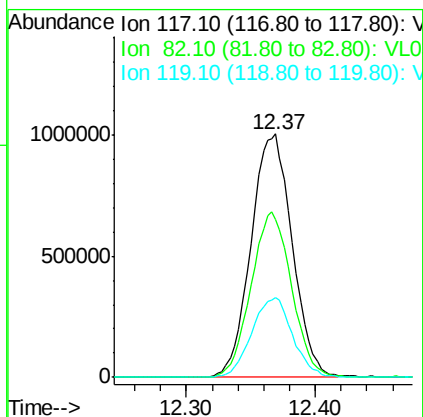
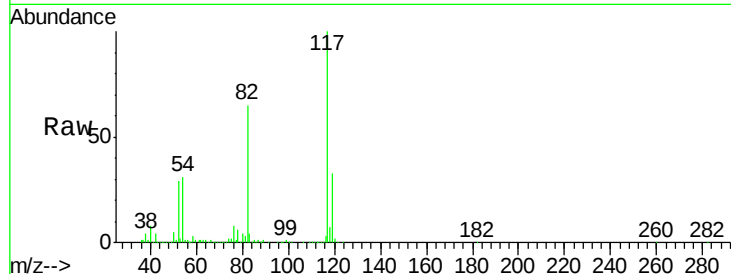
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. 0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion:117 Resp: 2231379
Ion Ratio Lower Upper
117 100
82 67.1 52.7 79.1
119 32.6 25.5 38.3

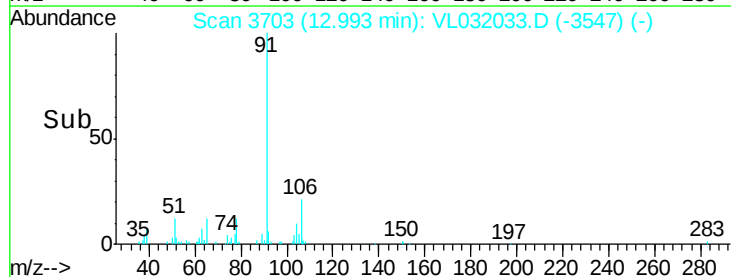
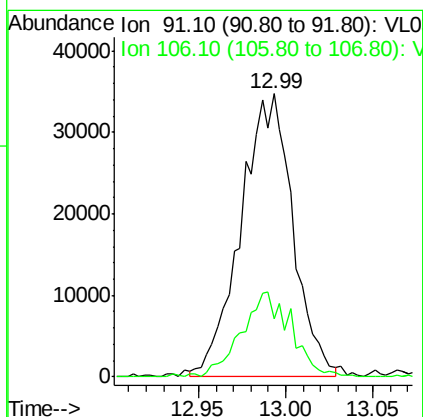
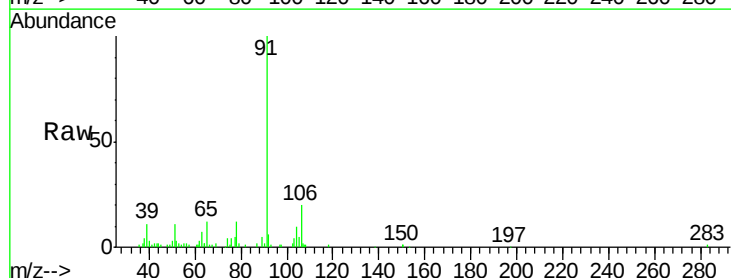
Manual Integrations
APPROVED

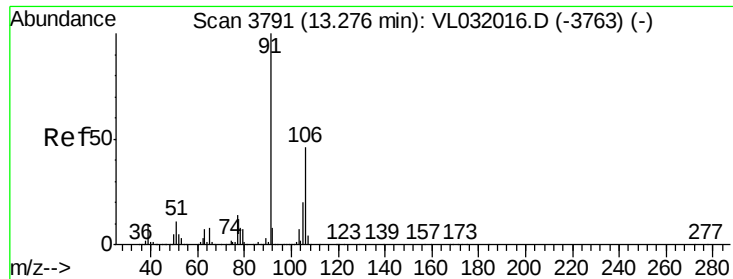
MMDadoda
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#58
Ethyl Benzene
Concen: 0.23 ppbv m
RT: 12.99 min Scan# 3703
Delta R.T. 0.00 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion: 91 Resp: 71787
Ion Ratio Lower Upper
91 100
106 20.5 24.2 36.2#





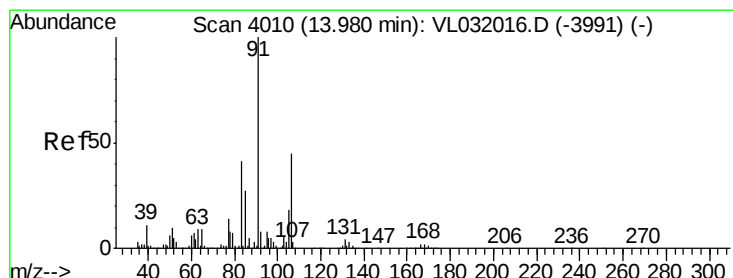
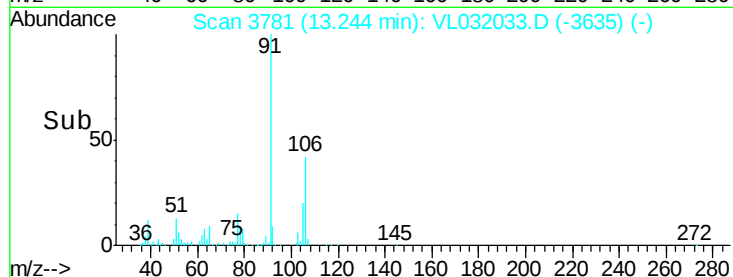
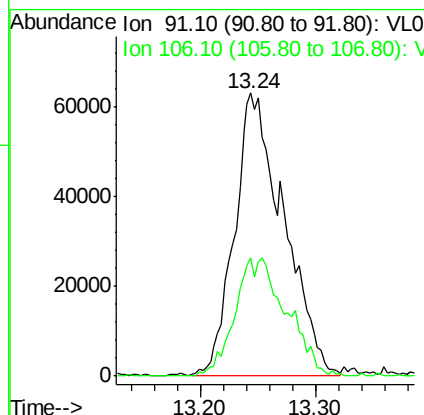
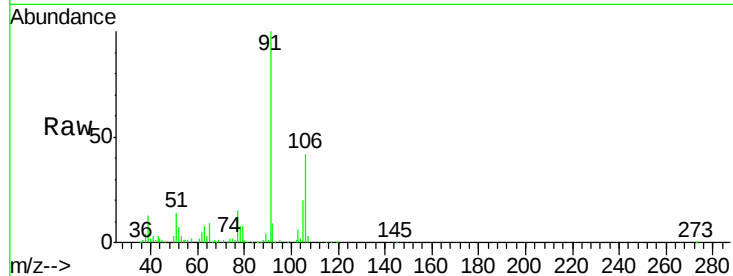
#59
m/p-Xylene
Concen: 0.68 ppbv m
RT: 13.24 min Scan# 3781
Delta R.T. -0.03 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DUP

Tot Ion: 91 Resp: 187830
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#

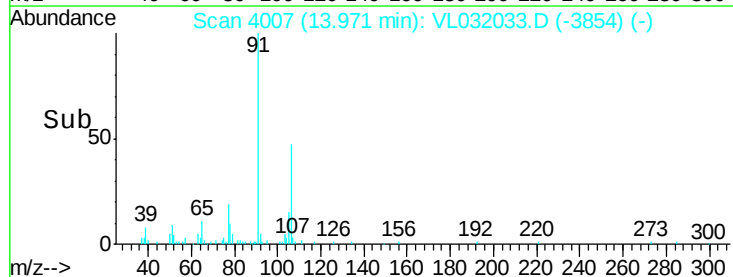
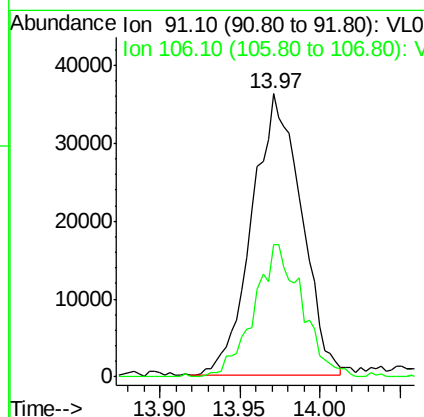
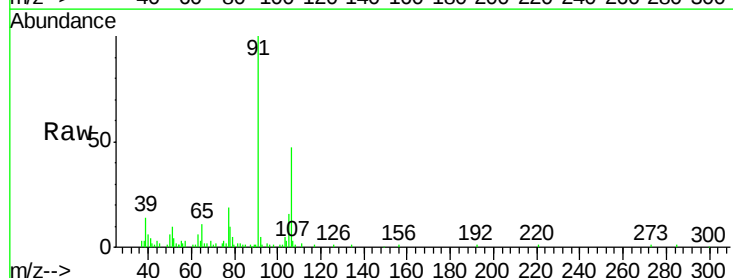
Manual Integrations
APPROVED

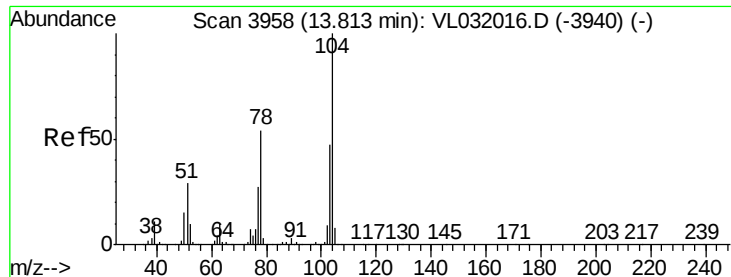
MMDadoda
6/4/2018 3:35:50 PM



#60
o-Xylene
Concen: 0.28 ppbv
RT: 13.97 min Scan# 4007
Delta R.T. -0.01 min
Lab File: VL032033.D
Acq: 1 Jun 2018 22:55

Tgt Ion: 91 Resp: 76976
Ion Ratio Lower Upper
91 100
106 45.7 21.9 65.5





#61

Stvrene

Concen: 0.71 ppbv m

RT: 13.82 min Scan# 3959

Delta R.T. 0.00 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Instrument :

MSVOA_L

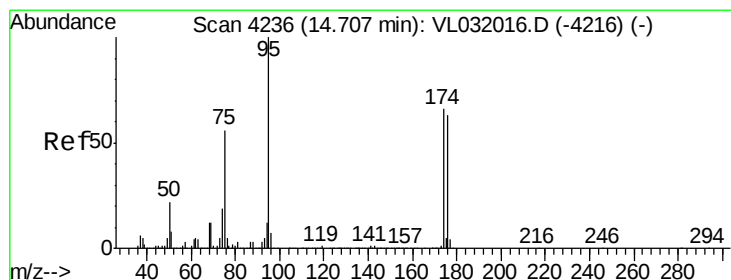
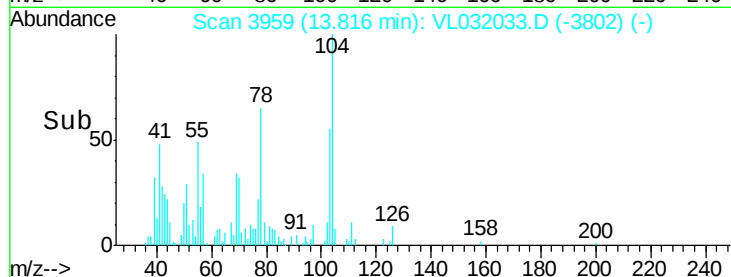
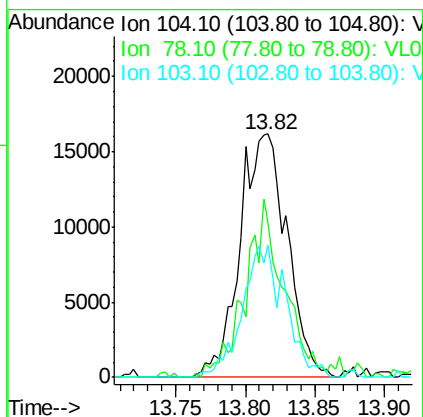
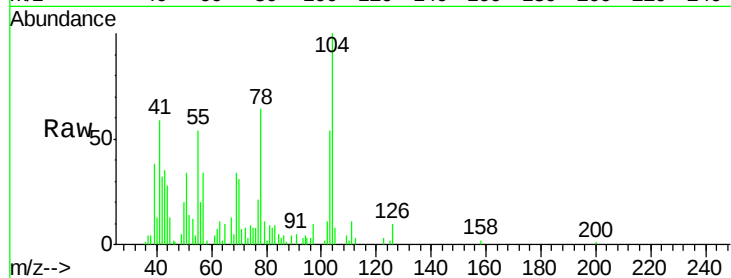
ClientSampleId :

LIHA-IA1-052518DUP

Tot Ion:	104	Resp:	38097
Ion Ratio	Lower	Upper	
104	100		
78	62.1	43.0	64.4
103	49.7	37.4	56.2

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.34 ppbv

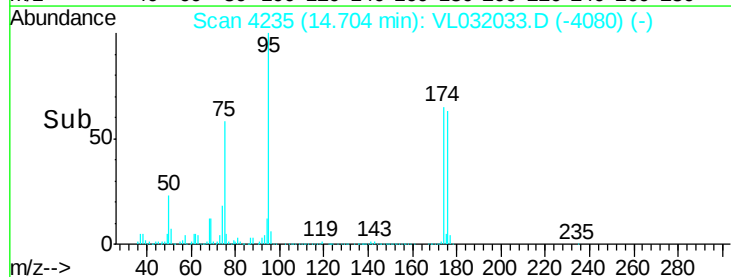
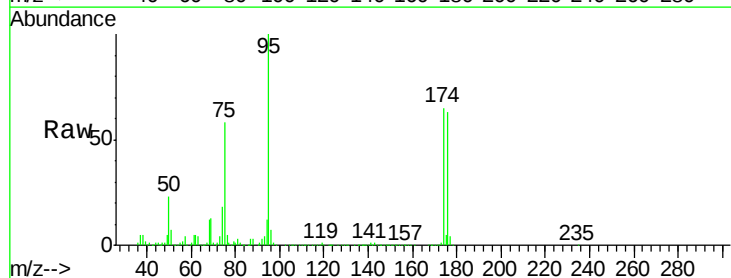
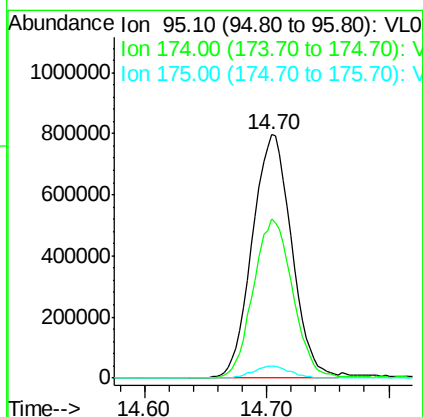
RT: 14.70 min Scan# 4235

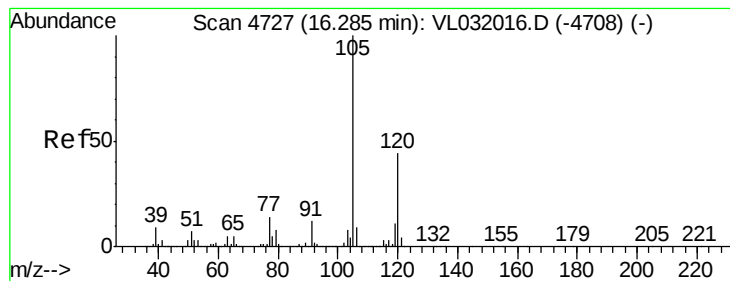
Delta R.T. -0.00 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Tgt Ion:	95	Resp:	1782147
Ion Ratio	Lower	Upper	
95	100		
174	66.1	53.2	79.8
175	4.7	3.7	5.5





#73

1,3,5-Trimethylbenzene

Concen: 0.18 ppbv

RT: 16.28 min Scan# 4726

Delta R.T. -0.00 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-052518DUP

Tot Ion:105 Resp: 44995

Ion Ratio Lower Upper

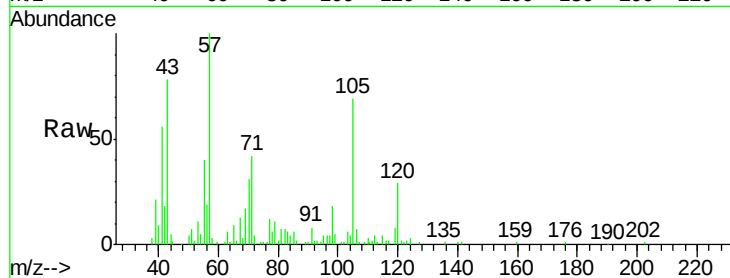
105 100

120 43.1 35.0 52.4

Manual Integrations
APPROVED

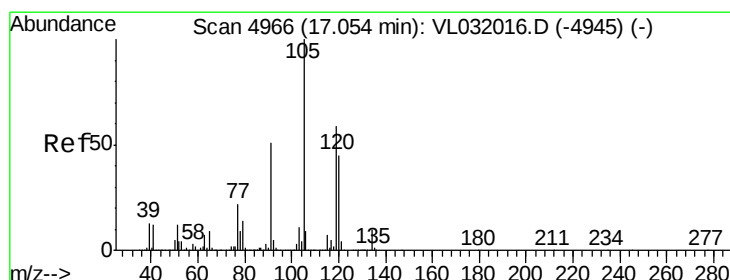
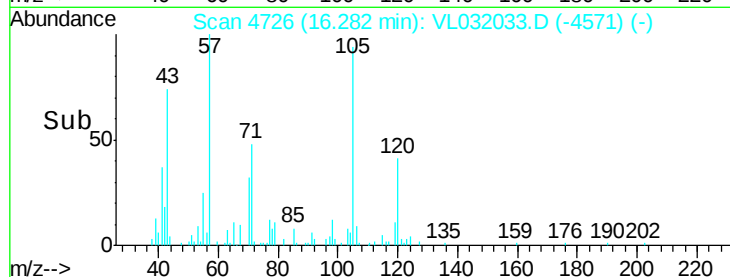
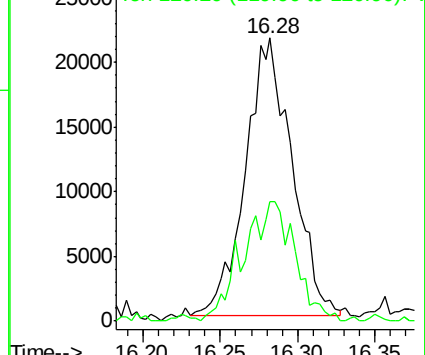
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.46 ppbv

RT: 17.05 min Scan# 4964

Delta R.T. -0.01 min

Lab File: VL032033.D

Acq: 1 Jun 2018 22:55

Tgt Ion:105 Resp: 131429

Ion Ratio Lower Upper

105 100

120 39.7 36.0 54.0

91 12.0 41.4 62.0#

77 18.8 17.3 25.9

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

