

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102418\
 Data File : VL032692.D
 Acq On : 24 Oct 2018 18:03
 Operator : SY/AP
 Sample : J5164-13 0.1 LOD
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 3:40:01 PM

Quant Time: Oct 25 21:59:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1473434	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3530022	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3489436	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2607104	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.09	85	24663	0.164	ppbv	89
3) Chlorodifluoromethane	3.03	51	13869	0.120	ppbv #	91
4) Chloromethane	3.18	50	8074m	0.125	ppbv	
5) Vinyl Chloride	3.31	62	7982m	0.114	ppbv	
6) Bromomethane	3.53	94	5172m	0.119	ppbv	
7) Chloroethane	3.62	64	3452m	0.134	ppbv	
8) Dichlorotetrafluoroethane	3.23	85	19733	0.125	ppbv	94
9) Propene	3.05	41	6174m	0.130	ppbv	
10) Heptane	8.26	43	8794	0.048	ppbv #	58
11) Trichlorofluoromethane	4.02	101	21459	0.109	ppbv #	82
12) 1,1,2-Trichlorotrifluoroet	4.57	101	17516	0.107	ppbv	90
14) Bromoethene	3.80	108	5600m	0.102	ppbv	
15) Acetone	3.94	43	28776	0.211	ppbv	95
16) 1,3-Butadiene	3.37	39	6614m	0.132	ppbv	
17) tert-Butyl alcohol	4.43	59	6956m	0.174	ppbv	
18) 1,1-Dichloroethene	4.36	96	8436	0.118	ppbv #	52
19) Isopropyl Alcohol	4.07	45	10904m	0.113	ppbv	
20) Methylene Chloride	4.42	84	15104m	0.219	ppbv	
21) Allyl Chloride	4.49	41	13189m	0.118	ppbv	
22) trans-1,2-Dichloroethene	4.99	96	7771m	0.106	ppbv	
23) Vinyl Acetate	5.18	43	21829m	0.091	ppbv	
24) 1,1-Dichloroethane	5.10	63	20221	0.107	ppbv #	88
25) Ethyl Acetate	5.80	43	33685m	0.108	ppbv	
26) Hexane	5.80	57	13744	0.093	ppbv #	76
27) Carbon Disulfide	4.64	76	18040m	0.100	ppbv	
28) Methyl tert-Butyl Ether	5.15	73	18214m	0.086	ppbv	
29) Chloroform	5.85	83	28796m	0.122	ppbv	
30) Cyclohexane	7.29	84	18363m	0.157	ppbv	
31) cis-1,2-Dichloroethene	5.65	61	12079m	0.088	ppbv	
32) 1,1,1-Trichloroethane	6.63	97	24631	0.102	ppbv	90
34) 2-Butanone	5.37	43	19790m	0.105	ppbv	
35) Carbon Tetrachloride	7.15	117	27788m	0.111	ppbv	
36) Benzene	7.02	78	25240	0.088	ppbv #	95
37) 1,2-Dichloroethane	6.42	62	22065m	0.125	ppbv	
38) Trichloroethene	7.98	130	11565m	0.109	ppbv	
39) 1,2-Dichloropropane	7.75	63	11439m	0.103	ppbv	
41) Tetrahydrofuran	6.22	42	7677m	0.073	ppbv	
42) Bromodichloromethane	7.92	83	28339m	0.115	ppbv	
43) Methyl Methacrylate	8.16	69	7284m	0.069	ppbv	
44) 2,2,4-Trimethylpentane	8.01	57	32523m	0.066	ppbv	
45) t-1,3-Dichloropropene	9.45	75	10033m	0.071	ppbv	

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Quant Time: Oct 25 21:59:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 25 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.85	75	11428m	0.071	ppbv	
47) 1,1,2-Trichloroethane	9.63	97	14345m	0.110	ppbv	
48) Dibromochloromethane	10.46	129	18547m	0.085	ppbv	
49) Bromoform	13.22	173	15670m	0.091	ppbv	
50) 4-Methyl-2-Pentanone	8.92	43	22235m	0.079	ppbv	
51) 2-Hexanone	10.33	43	10250m	0.049	ppbv	
52) Tetrachloroethene	11.39	164	9685m	0.097	ppbv	
53) Toluene	9.97	91	19317m	0.059	ppbv	
54) 1,2-Dibromoethane	10.78	107	16481m	0.093	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.29	131	16093	0.105	ppbv #	1
57) Chlorobenzene	12.32	112	29994	0.117	ppbv #	94
58) Ethyl Benzene	12.89	91	23516m	0.058	ppbv	
59) m/p-Xylene	13.14	91	40742m	0.113	ppbv	
60) o-Xylene	13.86	91	17726m	0.051	ppbv	
61) Styrene	13.70	104	11989m	0.051	ppbv	
62) Isopropylbenzene	14.84	105	33912	0.069	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.86	83	27465m	0.101	ppbv	
64) n-propylbenzene	15.73	120	6842m	0.056	ppbv	
65) tert-Butylbenzene	16.93	119	21952m	0.052	ppbv	
67) sec-Butylbenzene	17.47	105	38903m	0.065	ppbv	
69) p-Isopropyltoluene	17.83	119	24126m	0.051	ppbv	
70) n-Butylbenzene	18.74	91	26593m	0.055	ppbv	
71) 2-Chlorotoluene	15.63	91	22928m	0.065	ppbv	
72) 4-Ethyltoluene	16.01	105	18594m	0.050	ppbv	
73) 1,3,5-Trimethylbenzene	16.18	105	16821m	0.047	ppbv	
74) 1,2,4-Trimethylbenzene	16.95	105	18226	0.047	ppbv #	92
75) 1,3-Dichlorobenzene	17.18	146	25998m	0.117	ppbv	
76) 1,4-Dichlorobenzene	17.32	146	18138m	0.089	ppbv	
77) 1,2-Dichlorobenzene	18.02	146	19428m	0.092	ppbv	
78) Hexachloro-1,3-Butadiene	23.55	225	17419m	0.175	ppbv	
79) Naphthalene	22.43	128	8848m	0.037	ppbv	
81) 1,2,4-Trichlorobenzene	22.17	180	5979m	0.048	ppbv	

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

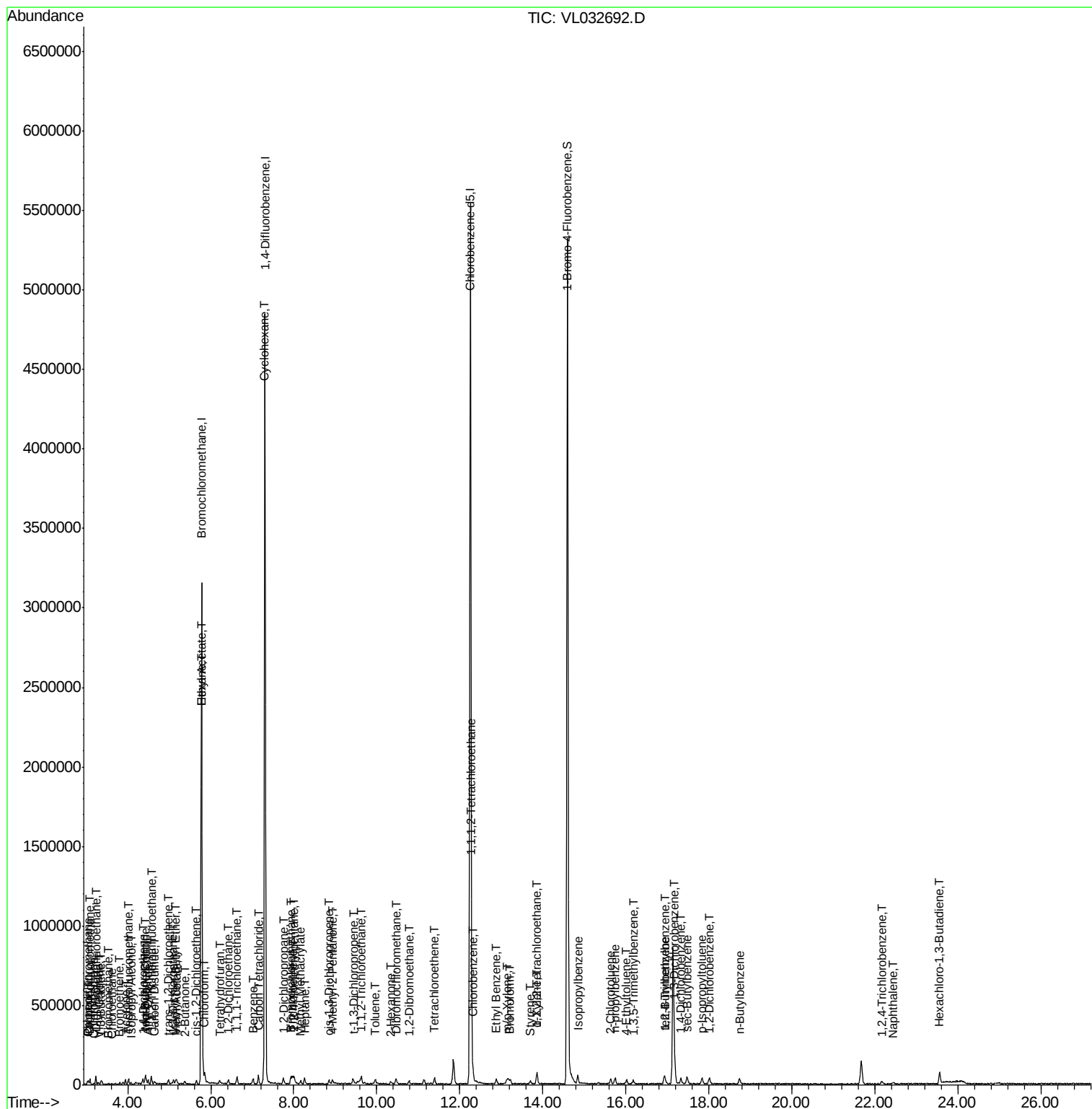
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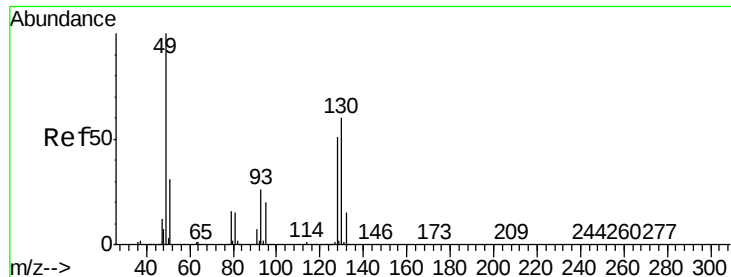
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

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QLast Update : Thu Oct 25 05:15:43 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 49 Resp: 1473434

Ion Ratio Lower Upper

49 100

128 49.0 22.3 66.8

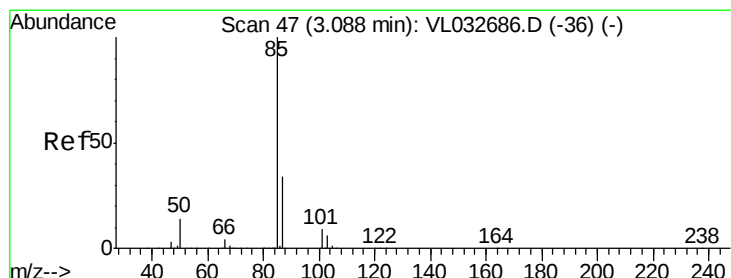
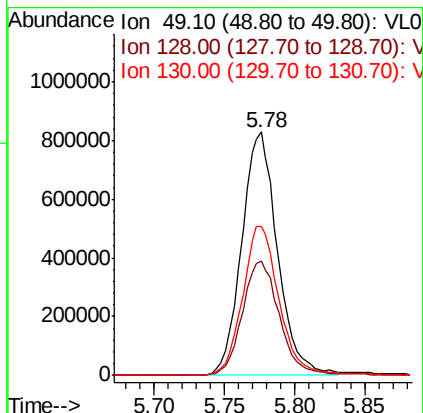
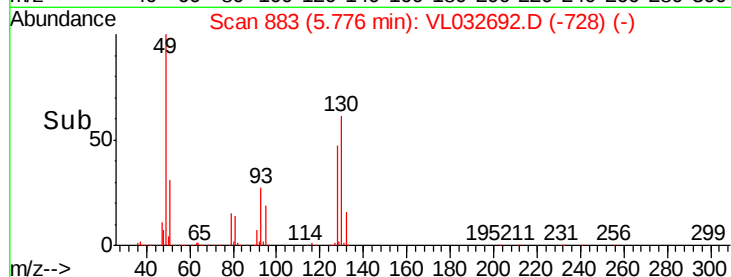
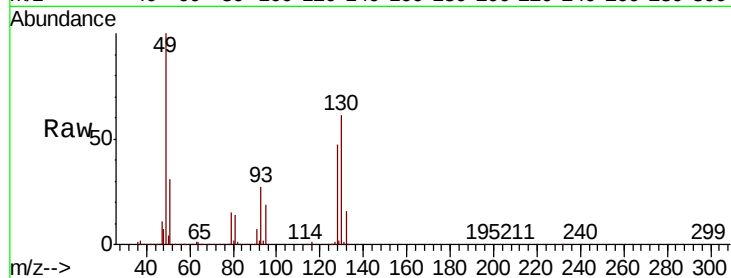
130 63.0 28.4 85.3

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.164 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032692.D

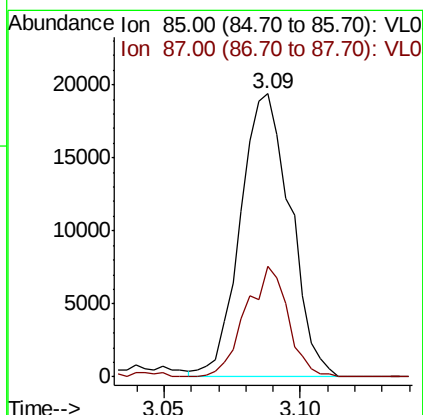
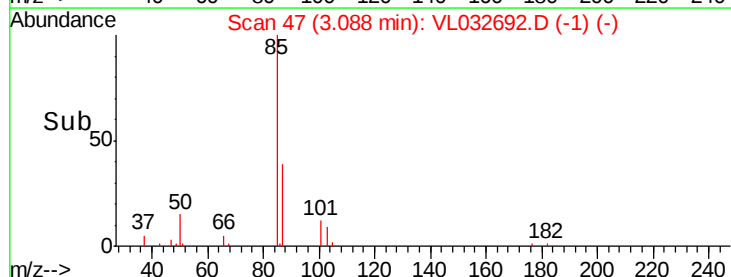
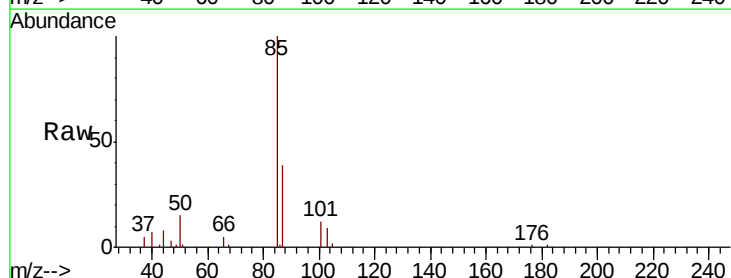
Acq: 24 Oct 2018 18:03

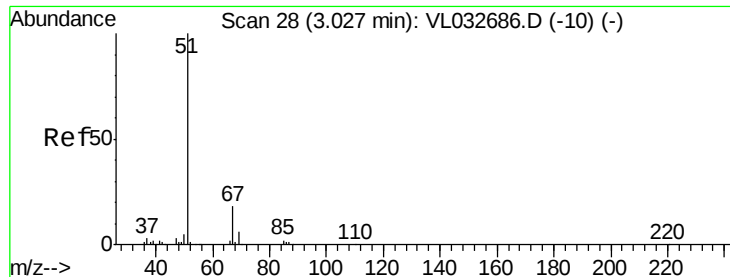
Tgt Ion: 85 Resp: 24663

Ion Ratio Lower Upper

85 100

87 39.0 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.120 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 51 Resp: 13869

Ion Ratio Lower Upper

51 100

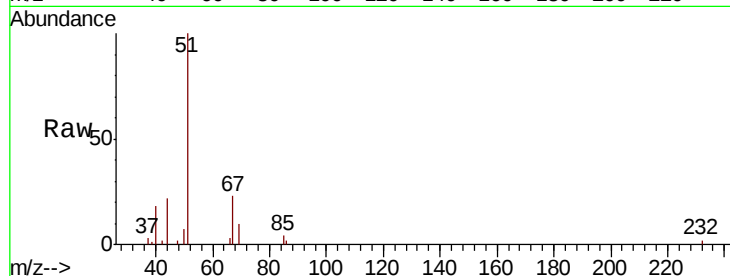
67 23.2 15.2 22.8#

Manual Integrations

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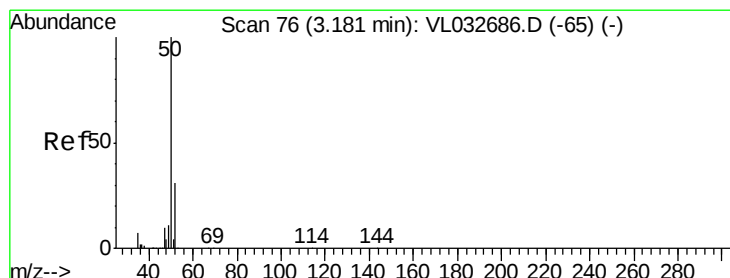
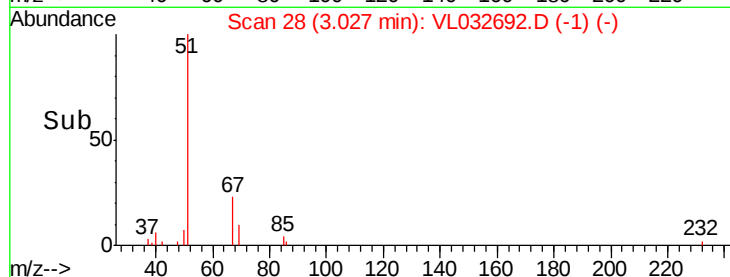
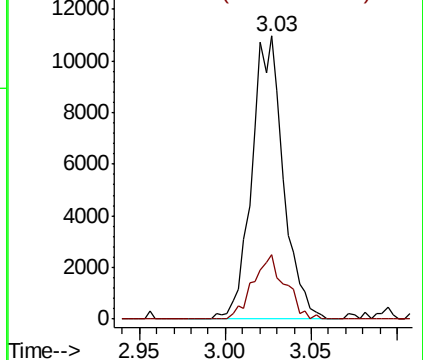
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.125 ppbv m

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032692.D

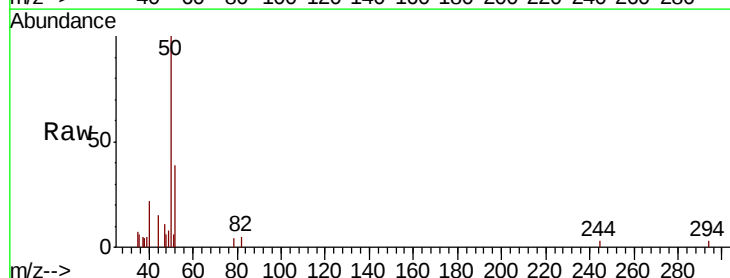
Acq: 24 Oct 2018 18:03

Tgt Ion: 50 Resp: 8074

Ion Ratio Lower Upper

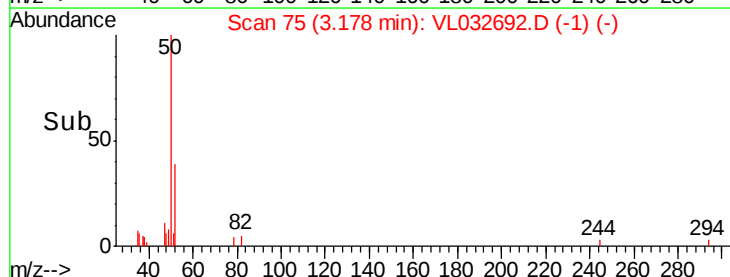
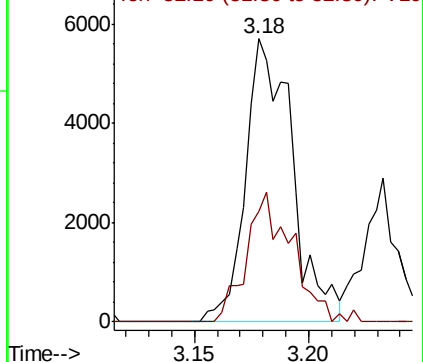
50 100

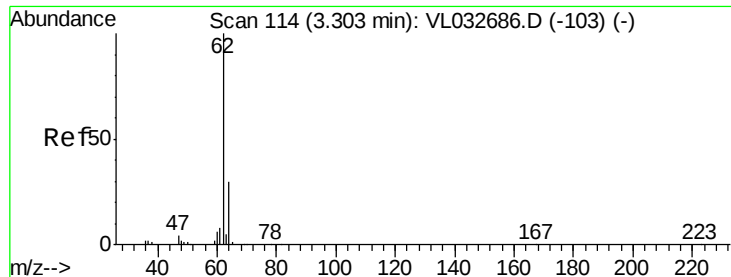
52 39.1 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.114 ppbv m

RT: 3.31 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 62 Resp: 7982

Ion Ratio Lower Upper

62 100

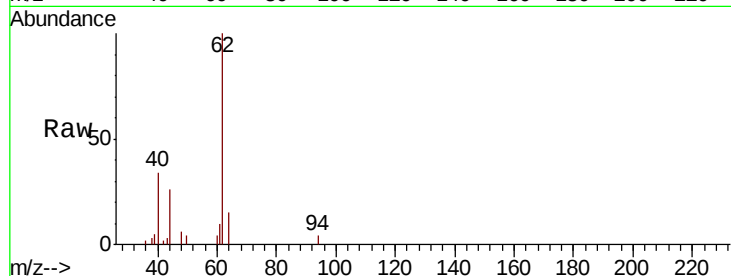
64 15.1 25.5 38.3#

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

8000

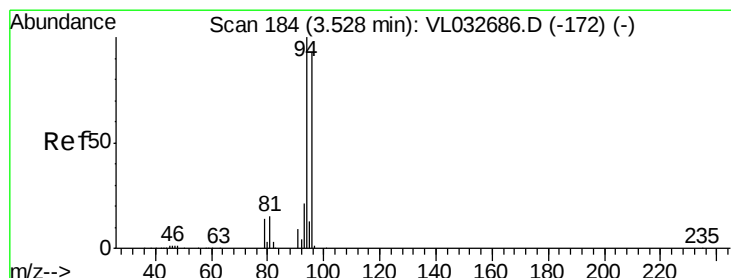
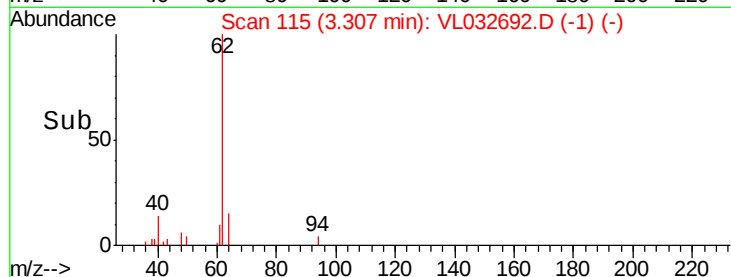
6000

4000

2000

0

Time-->



#6

Bromomethane

Concen: 0.119 ppbv m

RT: 3.53 min Scan# 185

Delta R.T. 0.01 min

Lab File: VL032692.D

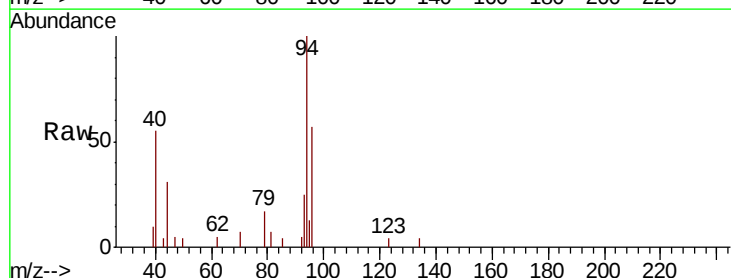
Acq: 24 Oct 2018 18:03

Tgt Ion: 94 Resp: 5172

Ion Ratio Lower Upper

94 100

96 57.4 69.8 104.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4000

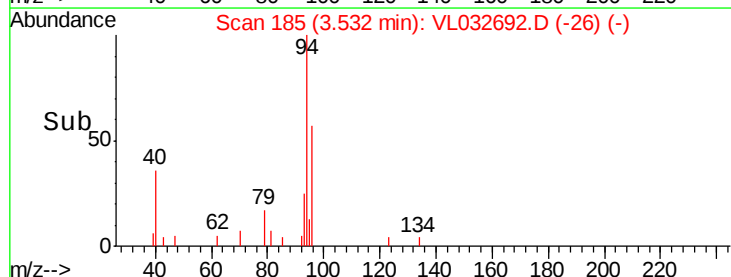
3000

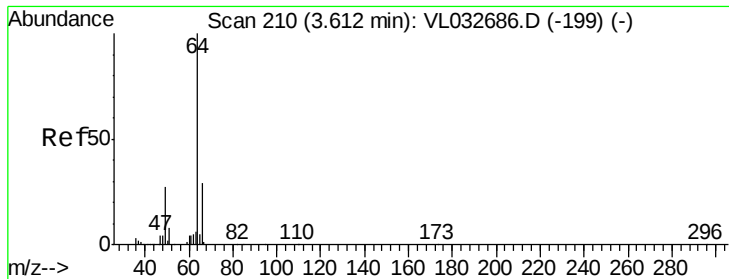
2000

1000

0

Time-->





#7

Chloroethane

Concen: 0.134 ppbv m

RT: 3.62 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 64 Resp: 3452

Ion Ratio Lower Upper

64 100

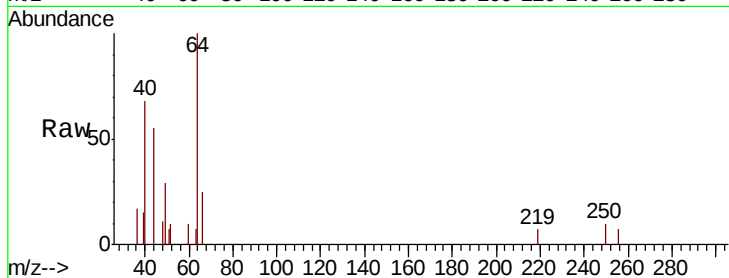
66 24.6 24.4 36.6

Manual Integrations

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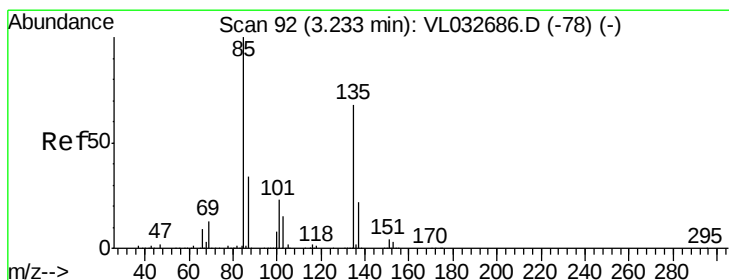
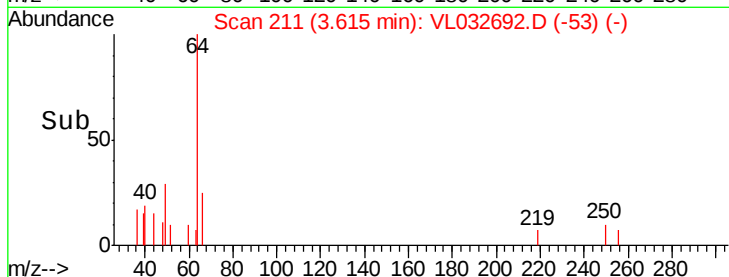
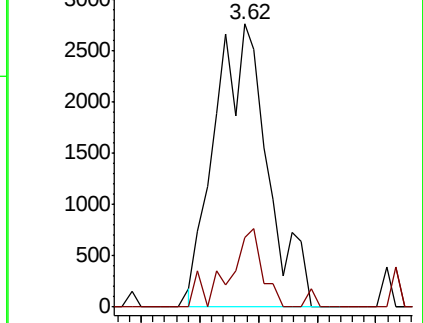
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.125 ppbv

RT: 3.23 min Scan# 91

Delta R.T. 0.00 min

Lab File: VL032692.D

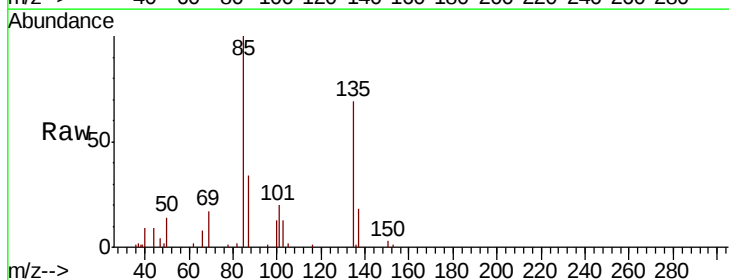
Acq: 24 Oct 2018 18:03

Tgt Ion: 85 Resp: 19733

Ion Ratio Lower Upper

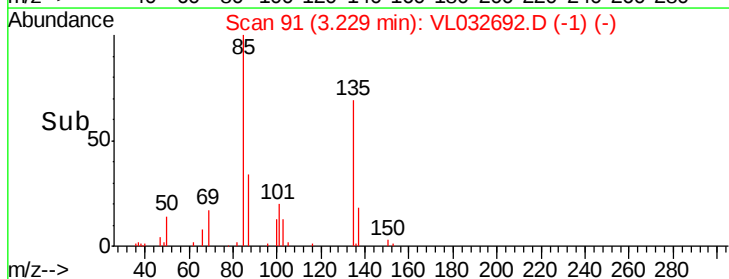
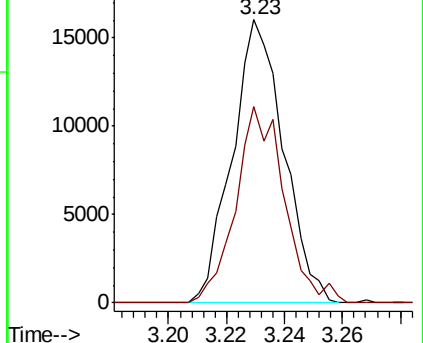
85 100

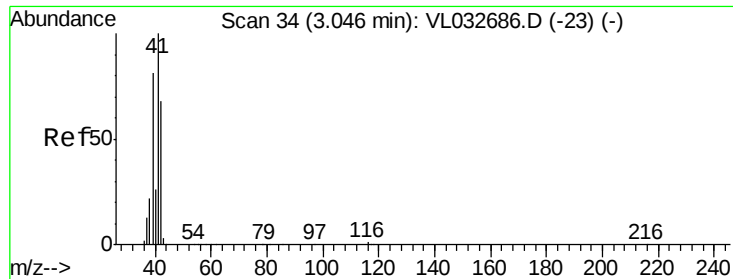
135 65.5 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.130 ppbv m

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

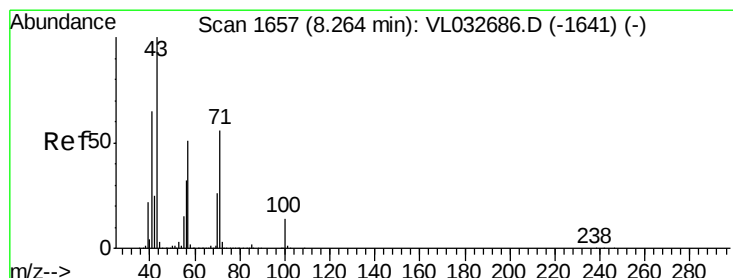
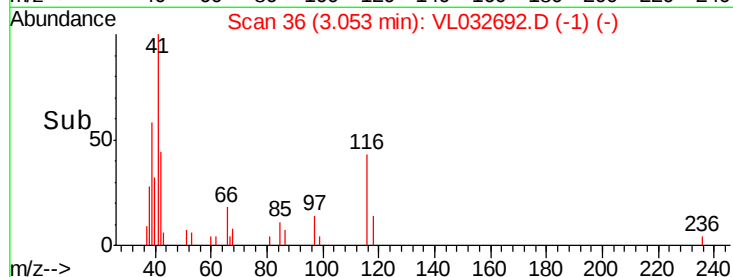
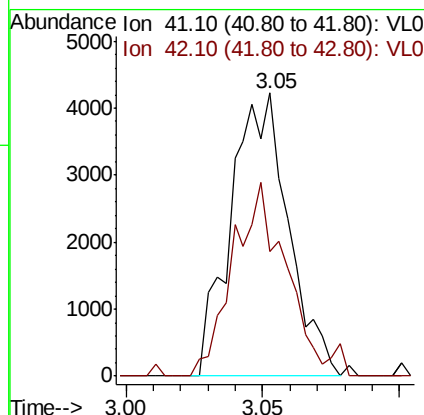
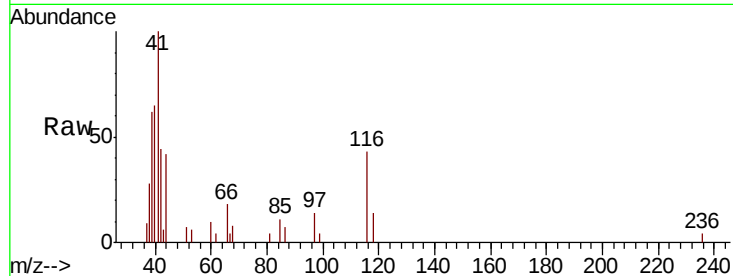
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 41 Resp: 6174
 Ion Ratio Lower Upper
 41 100
 42 0.0 55.4 83.0#

Manual Integrations
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#10

Heptane

Concen: 0.048 ppbv

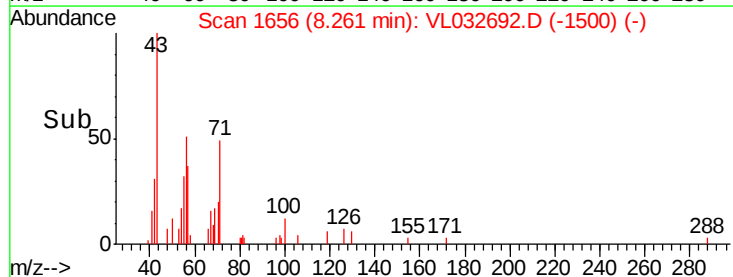
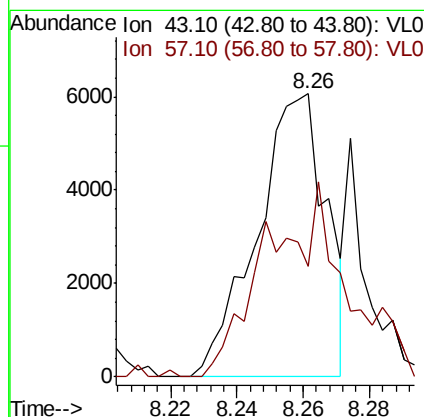
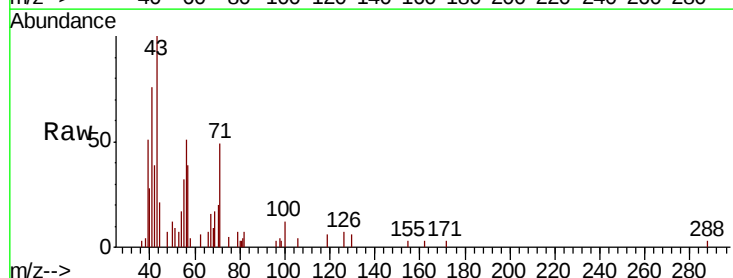
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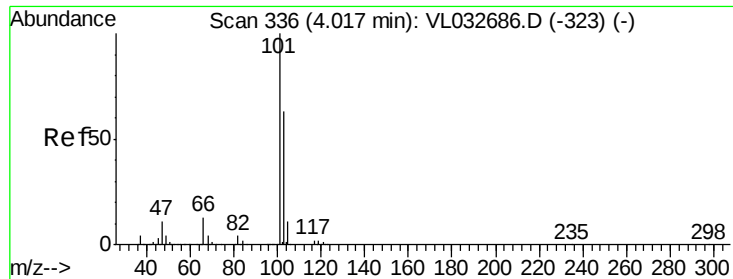
Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion: 43 Resp: 8794
 Ion Ratio Lower Upper
 43 100
 57 81.4 41.5 62.3#





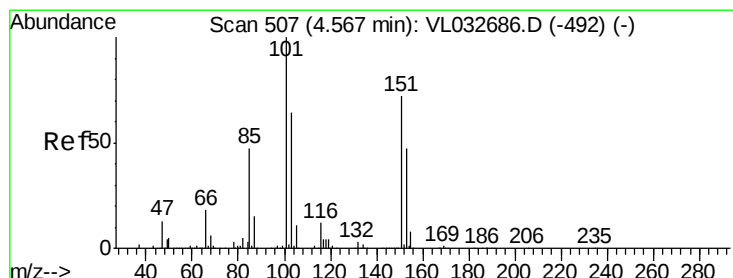
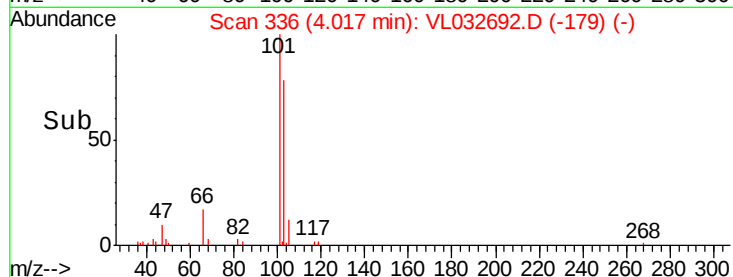
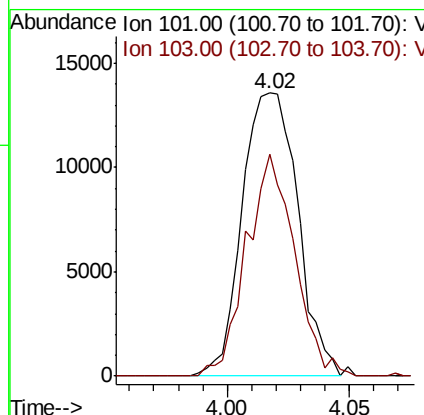
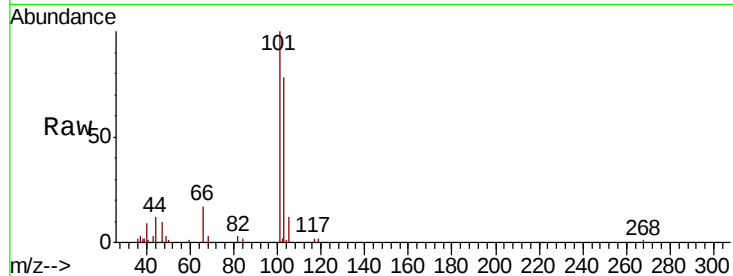
#11
 Trichlorofluoromethane
 Concen: 0.109 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032692.D
 Acq: 24 Oct 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2018

Tgt Ion:101 Resp: 21459
 Ion Ratio Lower Upper
 101 100
 103 78.3 51.4 77.2#

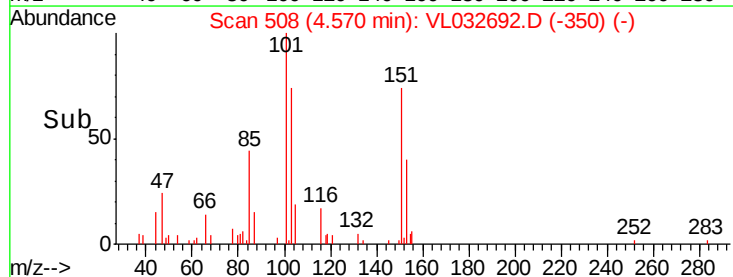
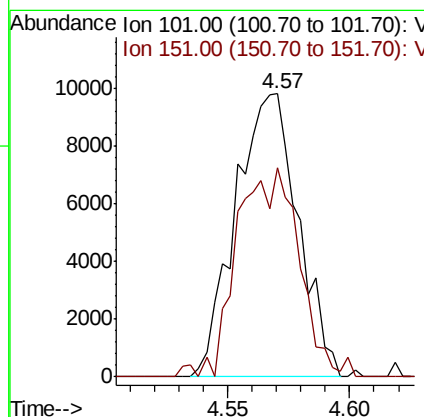
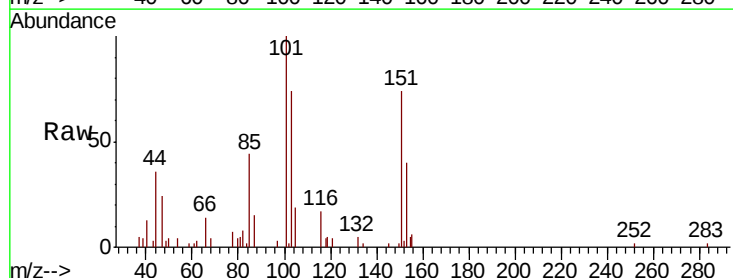
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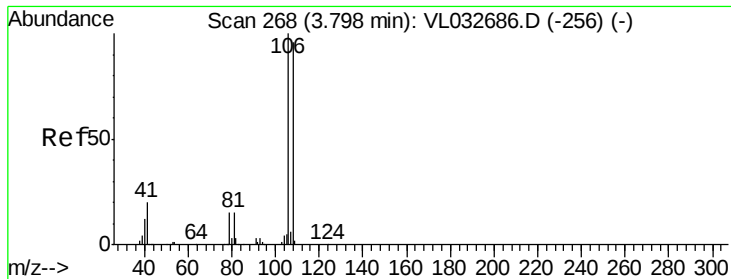
MMDadoda
 10/26/2018 3:40:01 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.107 ppbv
 RT: 4.57 min Scan# 508
 Delta R.T. 0.01 min
 Lab File: VL032692.D
 Acq: 24 Oct 2018 18:03

Tgt Ion:101 Resp: 17516
 Ion Ratio Lower Upper
 101 100
 151 73.5 52.3 78.5





#14

Bromoethene

Concen: 0.102 ppbv m

RT: 3.80 min Scan# 267

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

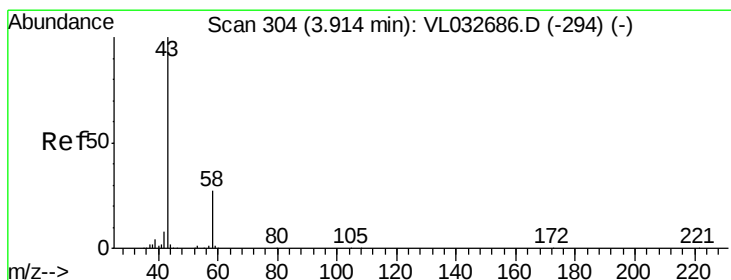
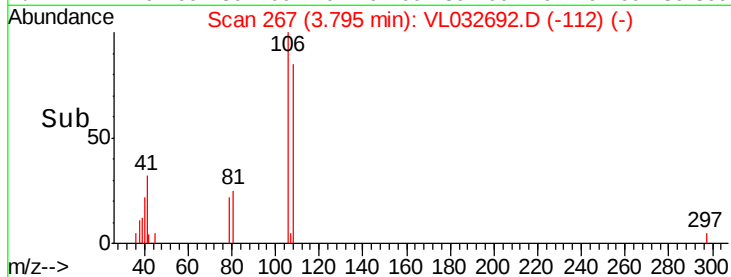
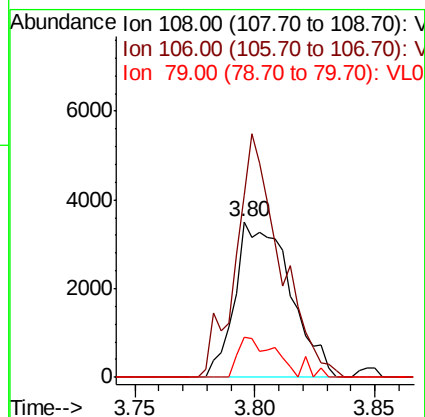
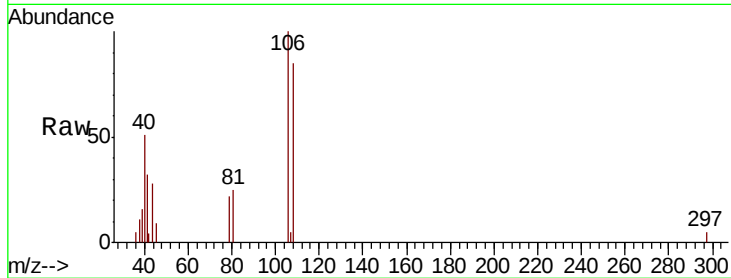
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
108	100		
106	0.0	85.0	127.4#
79	19.0	13.7	20.5

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#15

Acetone

Concen: 0.211 ppbv

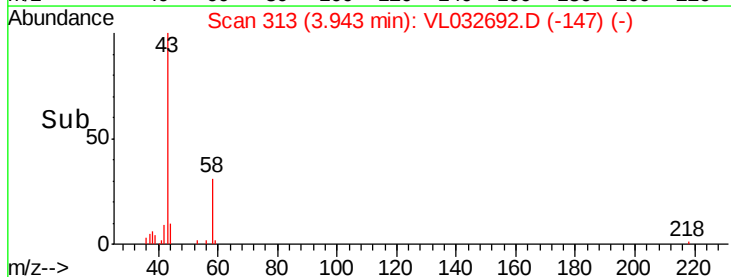
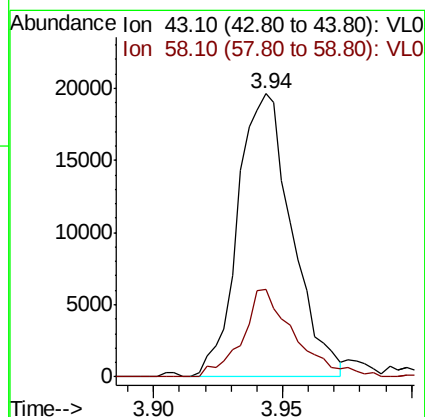
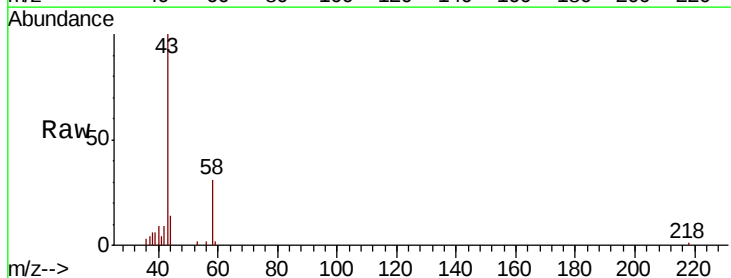
RT: 3.94 min Scan# 313

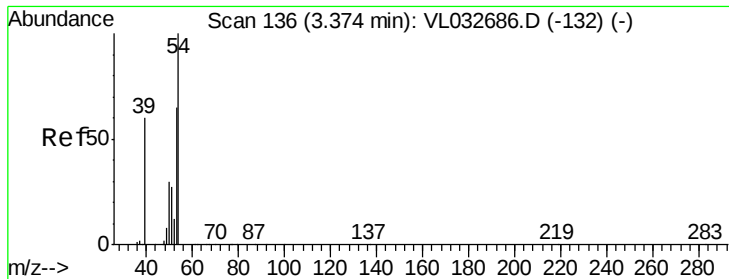
Delta R.T. 0.03 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.2	22.1	33.1





#16

1,3-Butadiene

Concen: 0.132 ppbv m

RT: 3.37 min Scan# 134

Delta R.T. -0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

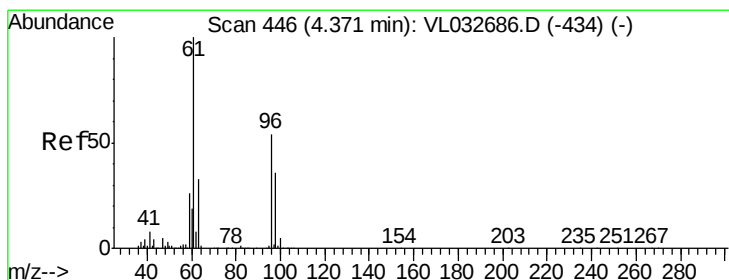
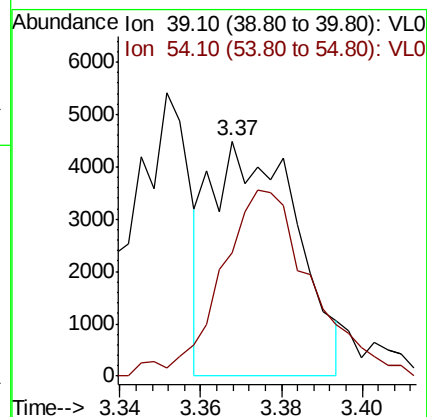
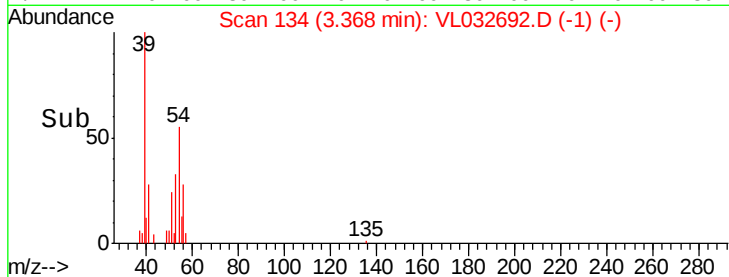
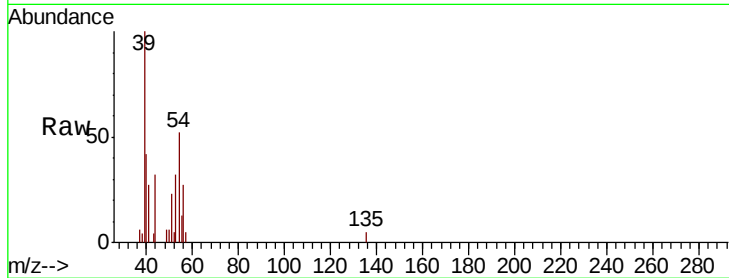
Tgt Ion: 39 Resp: 6614
Ion Ratio Lower Upper

39 100

54 0.0 90.4 135.6#

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#17

tert-Butyl alcohol

Concen: 0.174 ppbv m

RT: 4.43 min Scan# 463

Delta R.T. 0.05 min

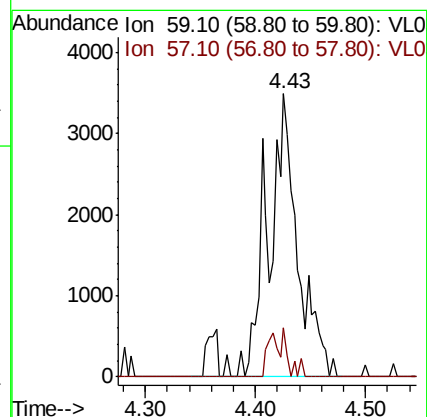
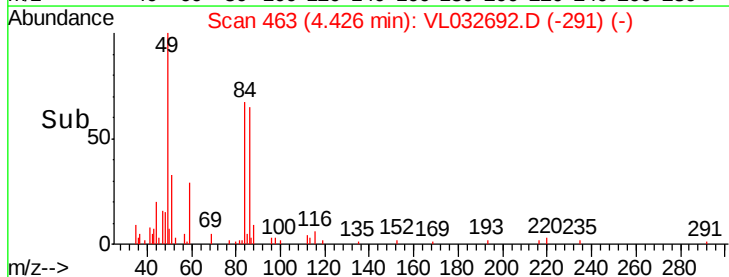
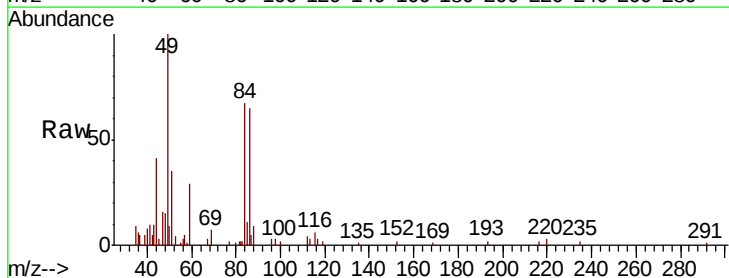
Lab File: VL032692.D

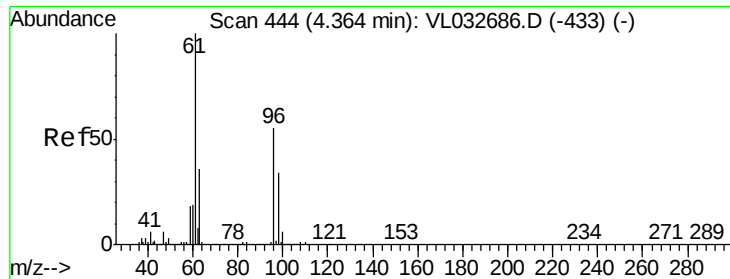
Acq: 24 Oct 2018 18:03

Tgt Ion: 59 Resp: 6956
Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0





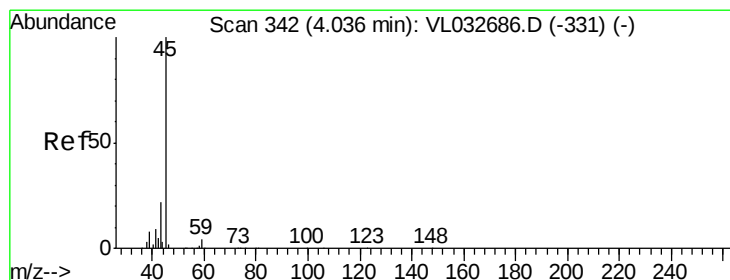
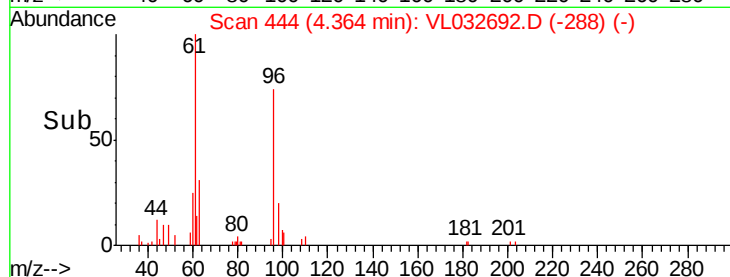
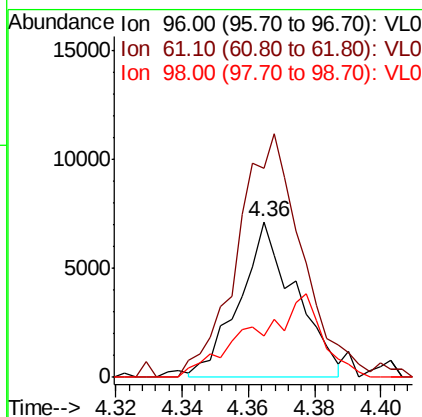
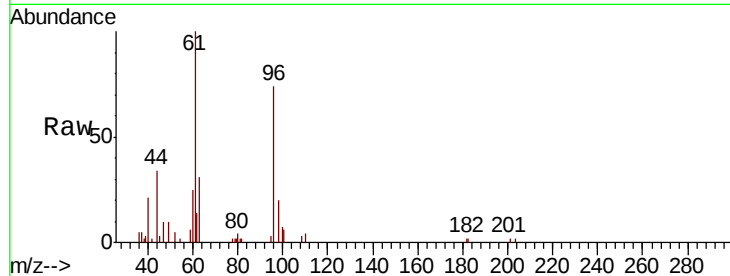
#18
 1,1-Dichloroethene
 Concen: 0.118 ppbv
 RT: 4.36 min Scan# 444
 Delta R.T. 0.00 min
 Lab File: VL032692.D
 Acq: 24 Oct 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
96	100		
61	122.7	151.6	227.4#
98	21.5	50.6	75.8#

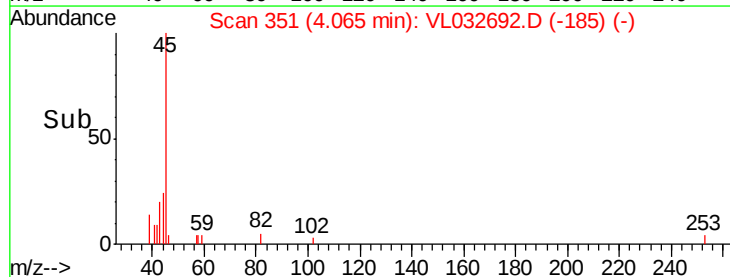
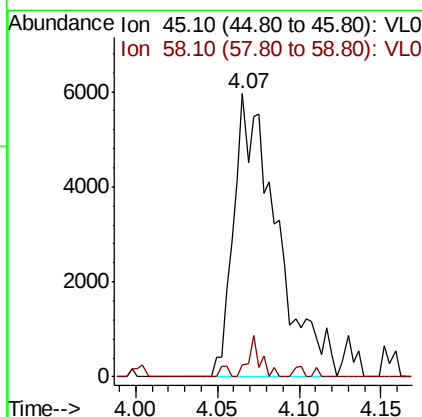
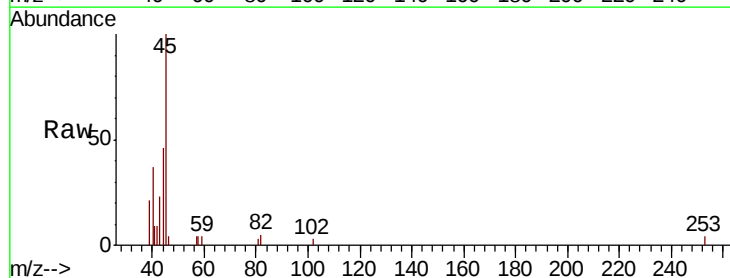
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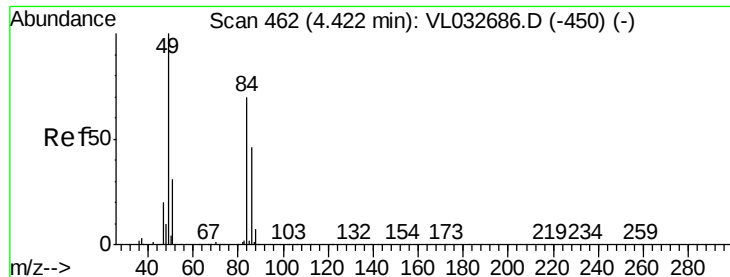
MMDadoda
 10/26/2018 3:40:01 PM



#19
 Isopropyl Alcohol
 Concen: 0.113 ppbv m
 RT: 4.07 min Scan# 351
 Delta R.T. 0.03 min
 Lab File: VL032692.D
 Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.0	3.0#





#20

Methylene Chloride

Concen: 0.219 ppbv m

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

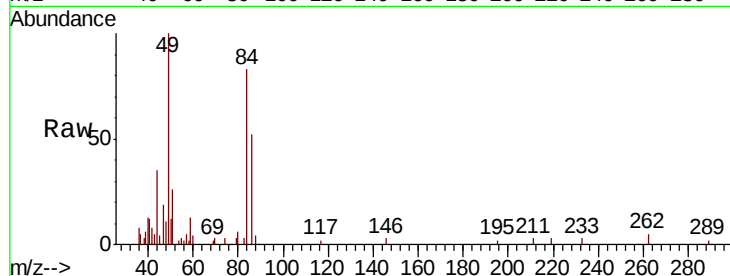
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	84	Resp:	15104
Ion	Ratio	Lower	Upper
84	100		
49	120.7	113.5	170.3
51	31.7	34.8	52.2#
86	63.2	47.9	71.9

Manual Integrations
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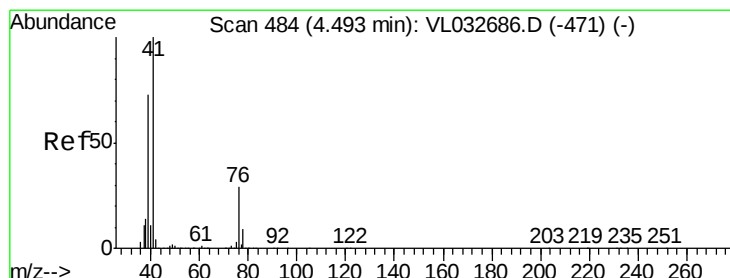
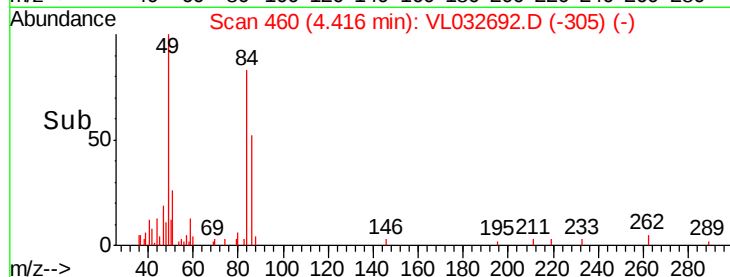
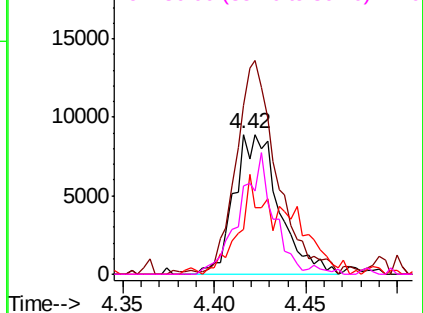
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 0.118 ppbv m

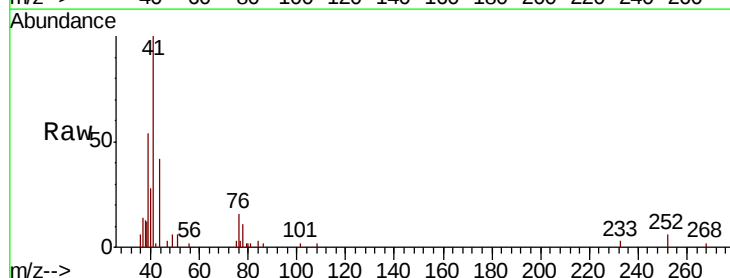
RT: 4.49 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	41	Resp:	13189
Ion	Ratio	Lower	Upper
41	100		
76	28.2	24.3	36.5
39	88.3	60.3	90.5

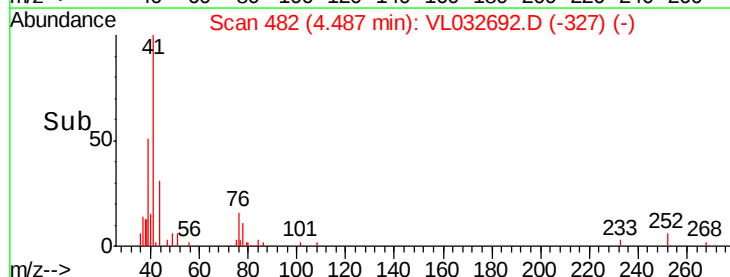
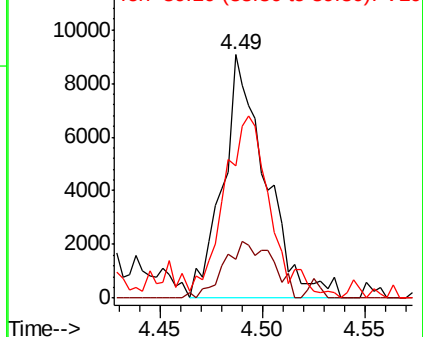


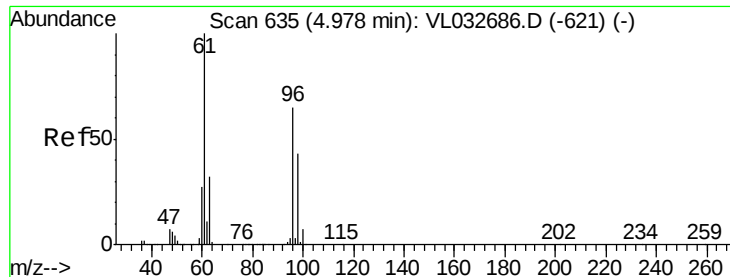
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.106 ppbv m

RT: 4.99 min Scan# 637

Delta R.T. 0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

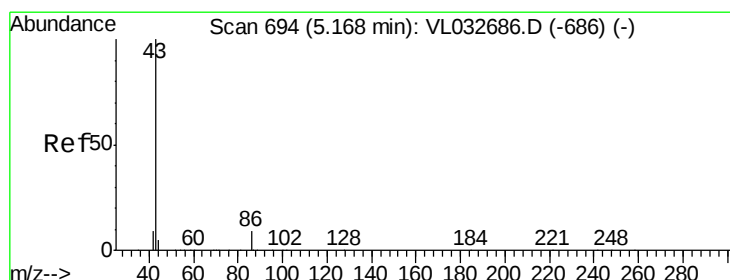
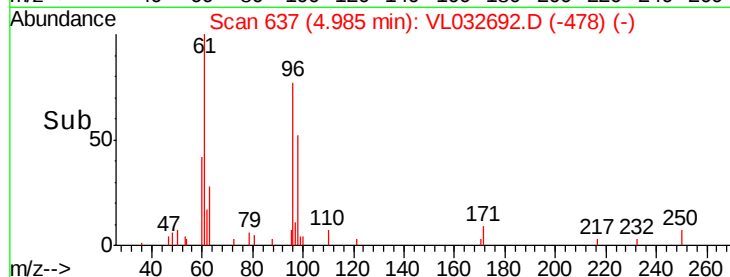
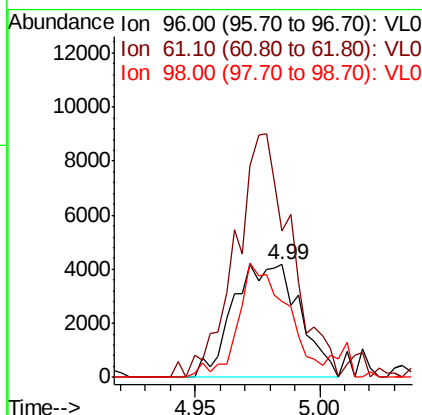
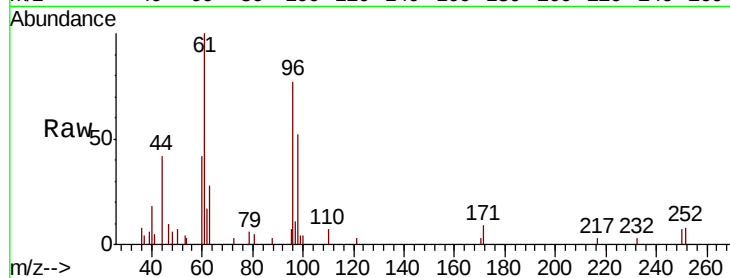
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	96	Resp:	7771
Ion	Ratio	Lower	Upper
96	100		
61	129.4	140.4	210.6#
98	67.2	55.0	82.6

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#23

Vinyl Acetate

Concen: 0.091 ppbv m

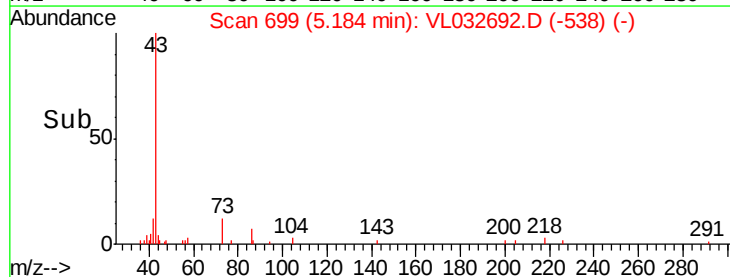
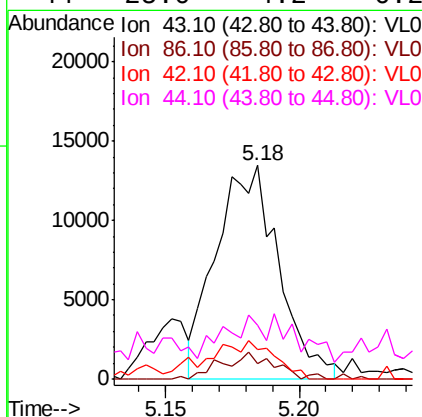
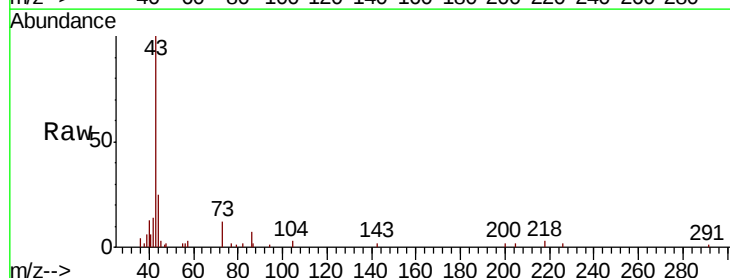
RT: 5.18 min Scan# 699

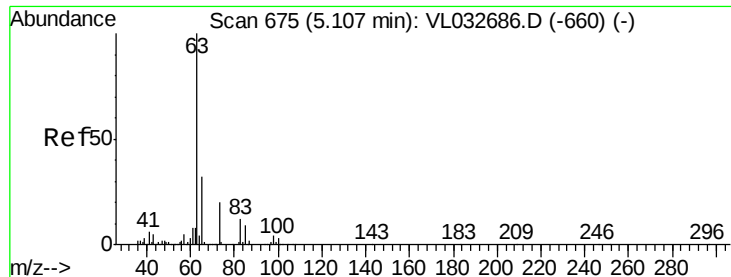
Delta R.T. 0.02 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	43	Resp:	21829
Ion	Ratio	Lower	Upper
43	100		
86	7.0	6.1	9.1
42	14.0	7.4	11.2#
44	25.0	4.2	6.2#





#24

1,1-Dichloroethane

Concen: 0.107 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

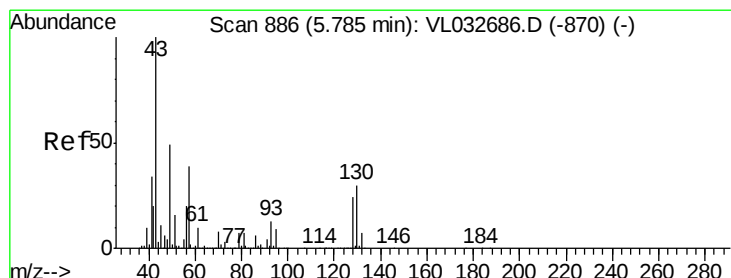
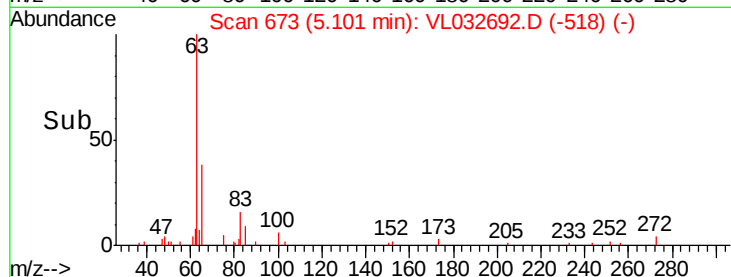
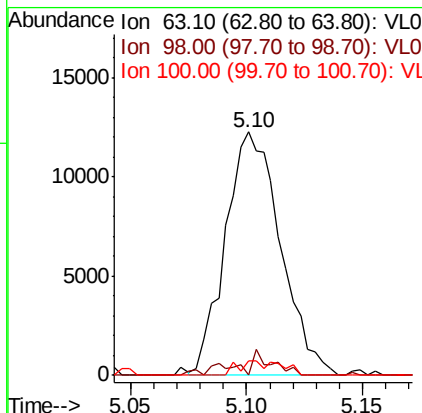
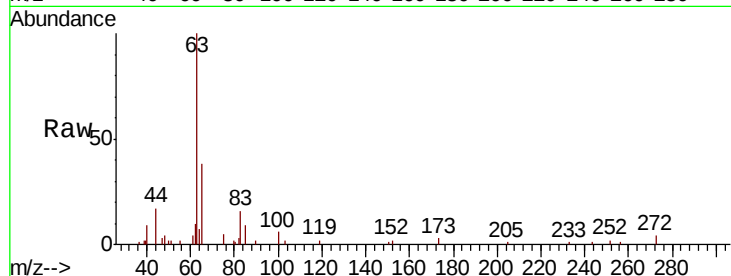
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.3#
100	5.9	1.2	3.6#

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#25

Ethyl Acetate

Concen: 0.108 ppbv m

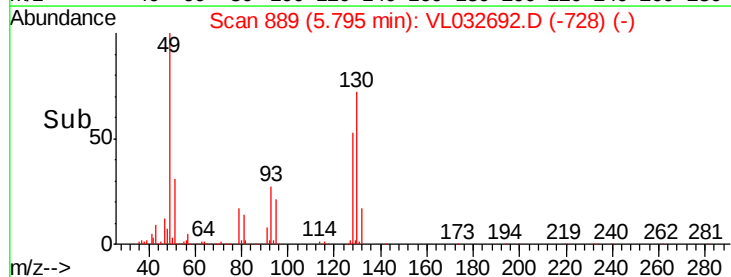
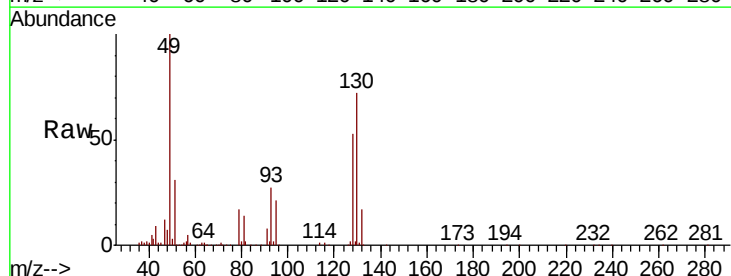
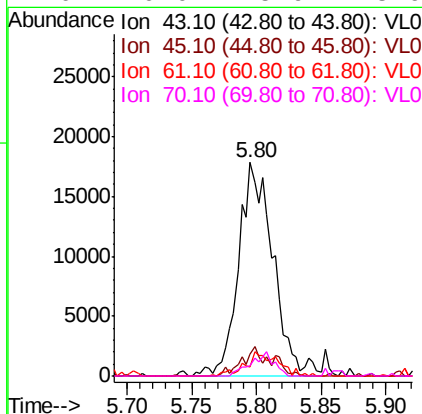
RT: 5.80 min Scan# 889

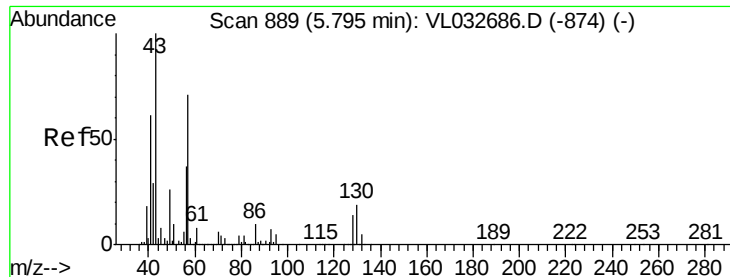
Delta R.T. 0.02 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.0	8.0	12.0#
70	0.0	5.9	8.9#





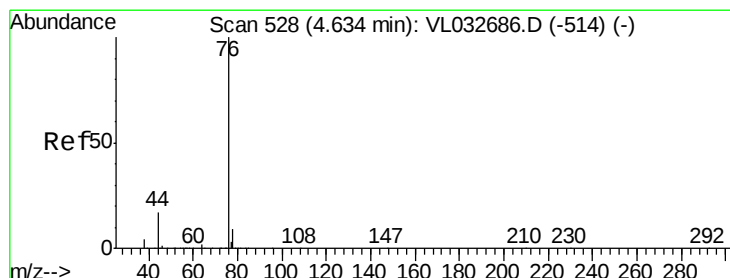
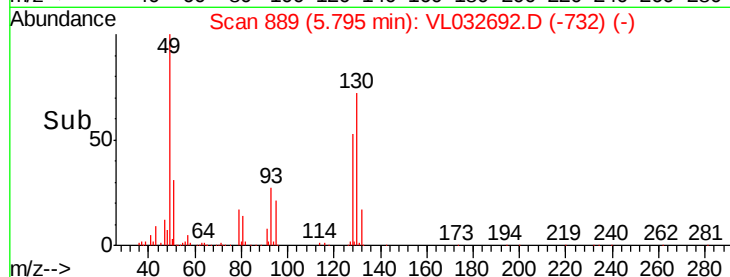
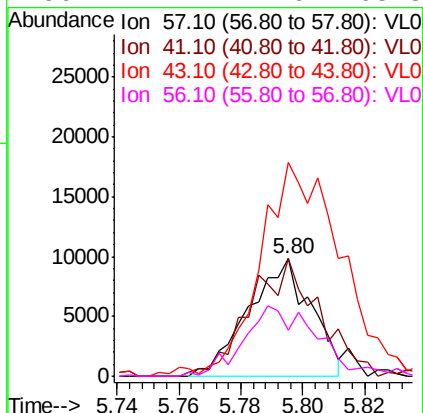
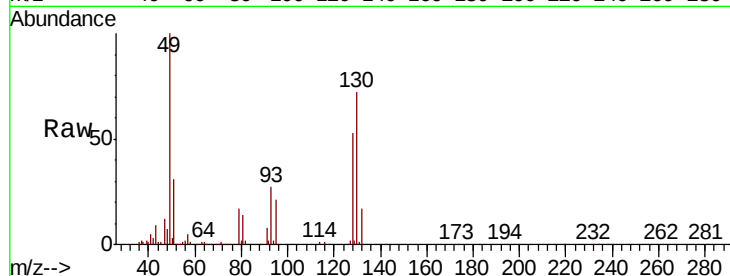
#26
Hexane
Concen: 0.093 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
57	100		
41	114.7	67.4	101.0#
43	246.9	171.9	257.9
56	72.1	42.6	63.8#

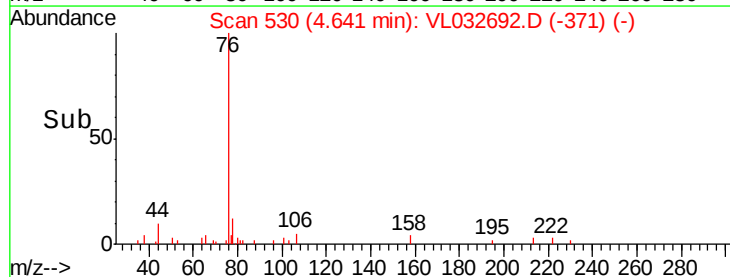
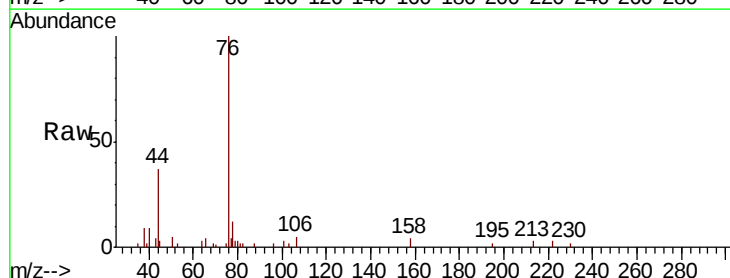
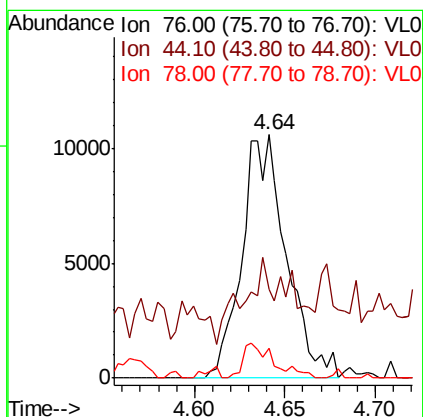
Manual Integrations
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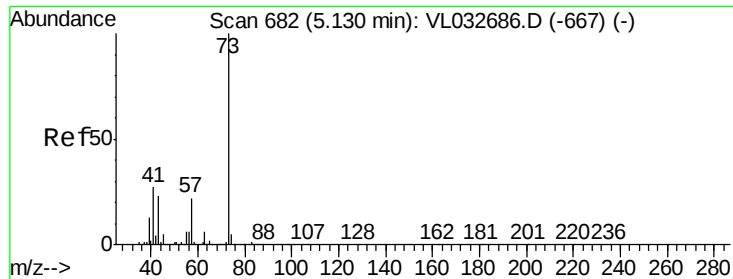
MMDadoda
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#27
Carbon Disulfide
Concen: 0.100 ppbv m
RT: 4.64 min Scan# 530
Delta R.T. 0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
76	100		
44	22.9	13.7	20.5#
78	11.3	7.4	11.2#





#28

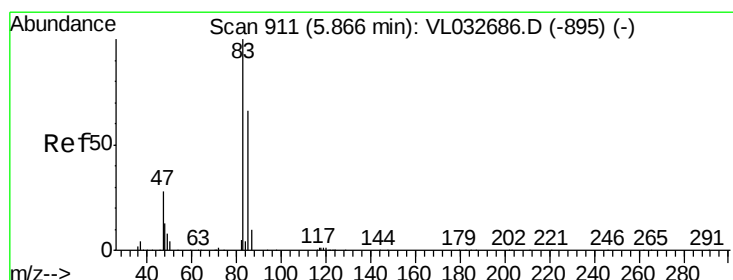
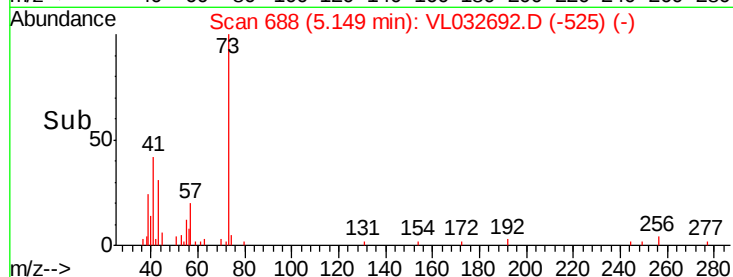
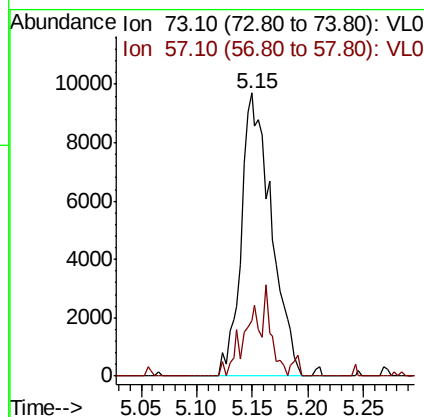
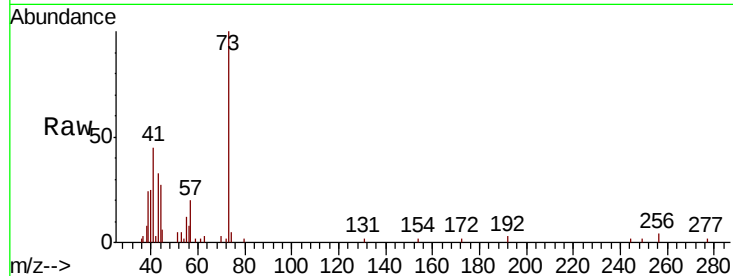
Methyl tert-Butyl Ether
Concen: 0.086 ppbv m
RT: 5.15 min Scan# 688
Delta R.T. 0.02 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 73 Resp: 18214
Ion Ratio Lower Upper
73 100
57 24.5 18.0 27.0

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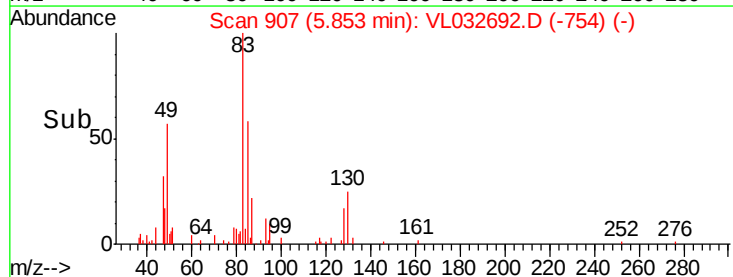
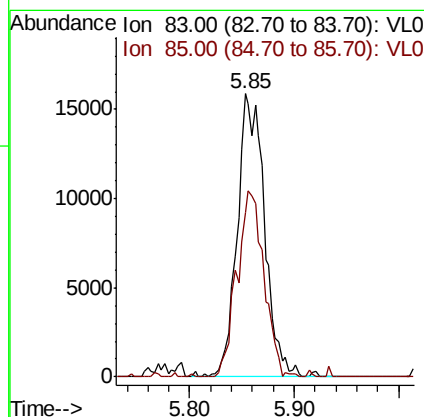
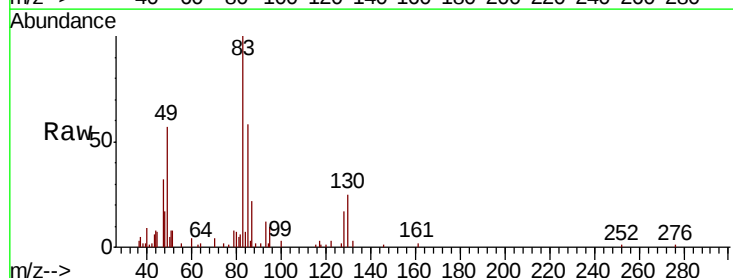
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10/26/2018 3:40:01 PM

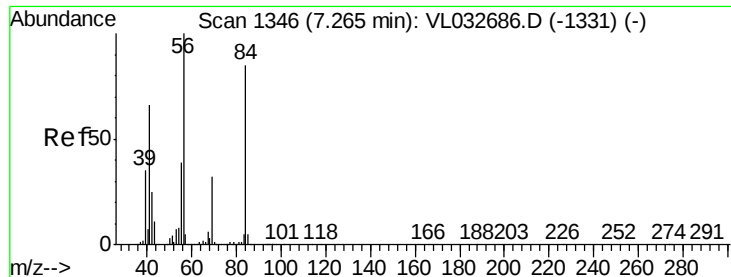


#29

Chloroform
Concen: 0.122 ppbv m
RT: 5.85 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion: 83 Resp: 28796
Ion Ratio Lower Upper
83 100
85 58.0 53.0 79.6





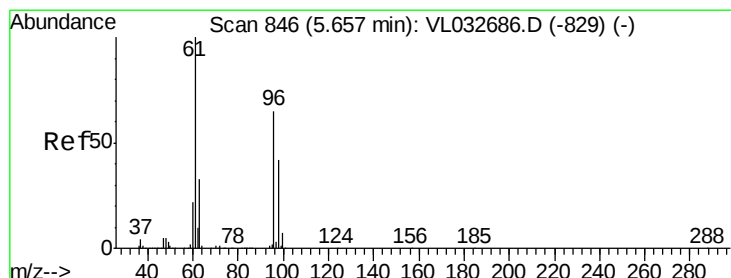
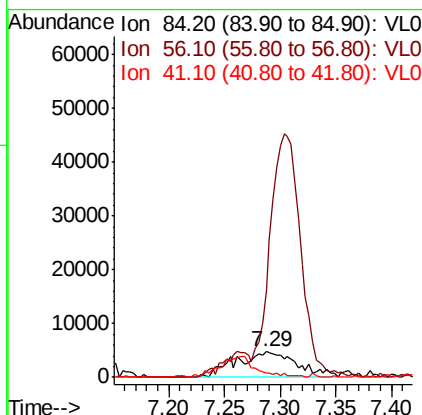
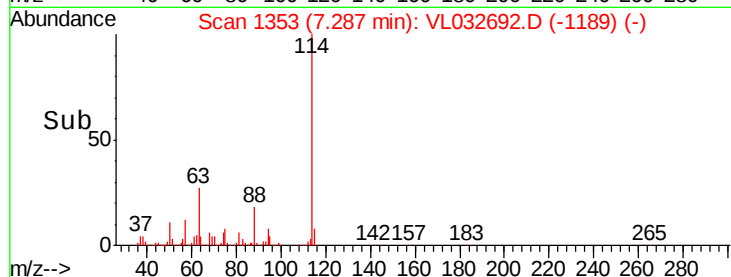
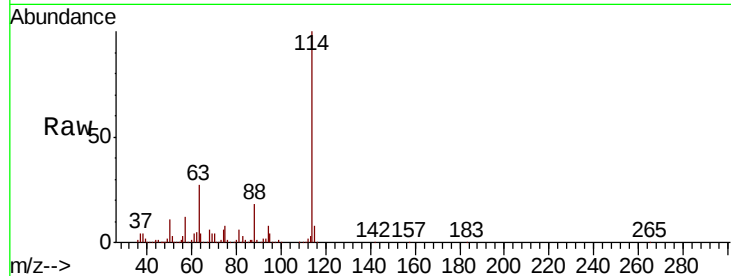
#30
Cyclohexane
Concen: 0.157 ppbv m
RT: 7.29 min Scan# 1353
Delta R.T. 0.03 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.3	162.5#
41	0.0	64.8	97.2#

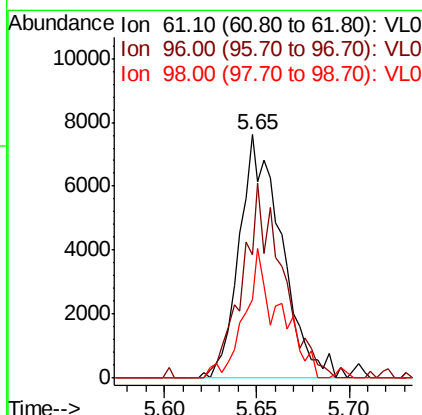
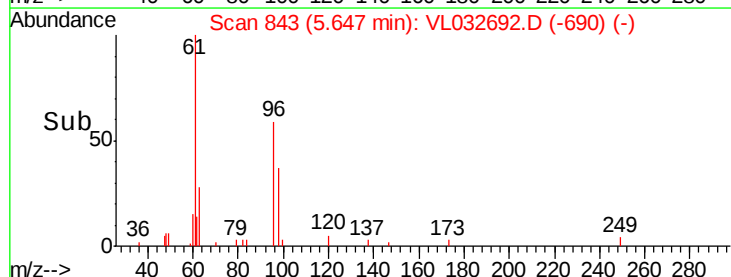
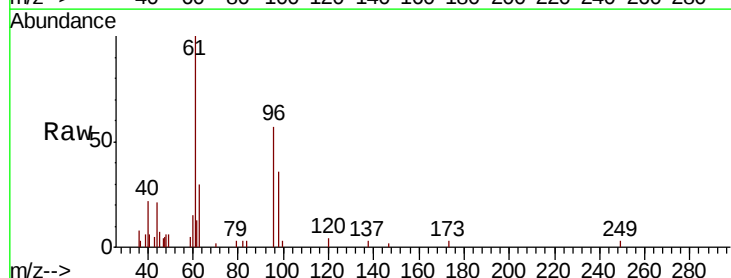
Manual Integrations
APPROVED

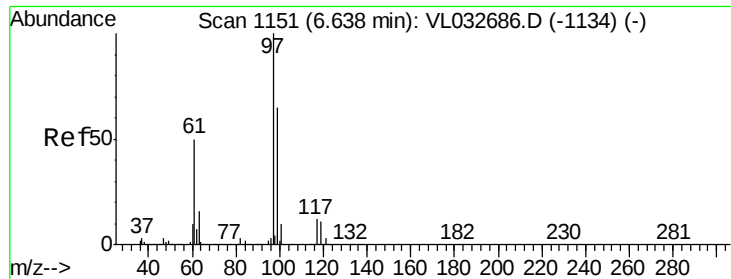
MMDadoda
10/26/2018 3:40:01 PM



#31
cis-1,2-Dichloroethene
Concen: 0.088 ppbv m
RT: 5.65 min Scan# 843
Delta R.T. -0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
61	100		
96	57.3	51.8	77.6
98	36.4	33.8	50.6





#32

1,1,1-Trichloroethane

Concen: 0.102 ppbv

RT: 6.63 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

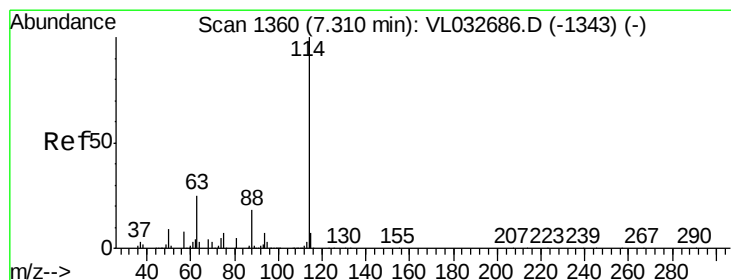
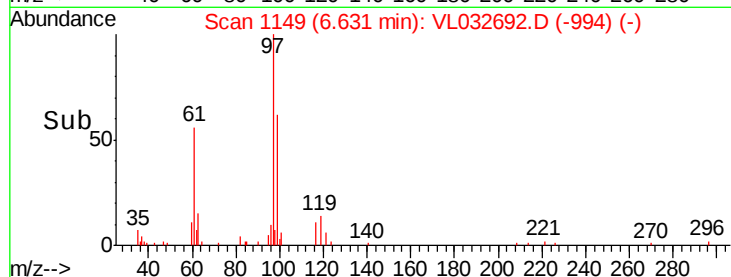
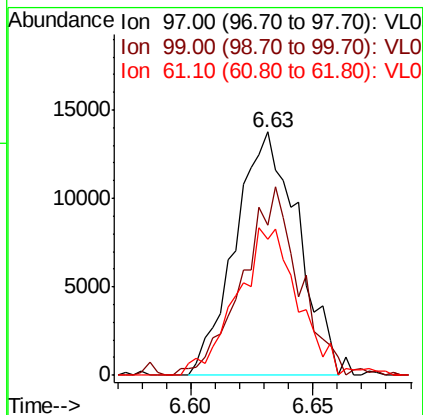
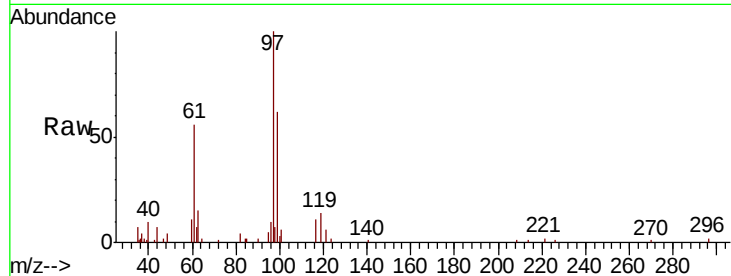
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	97	Resp:	24631
Ion	Ratio	Lower	Upper
97	100		
99	70.8	52.0	78.0
61	59.4	40.7	61.1

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10/26/2018 3:40:01 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

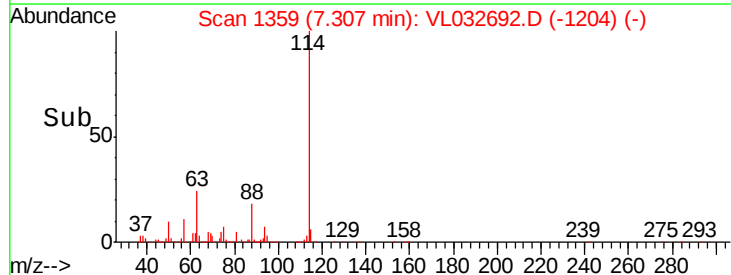
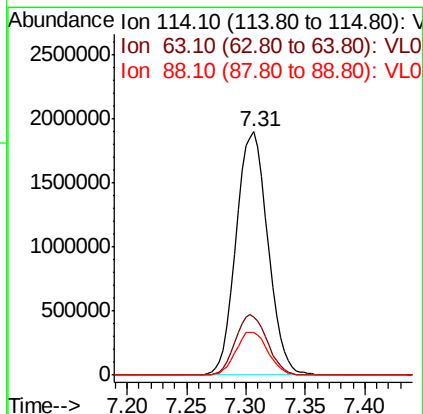
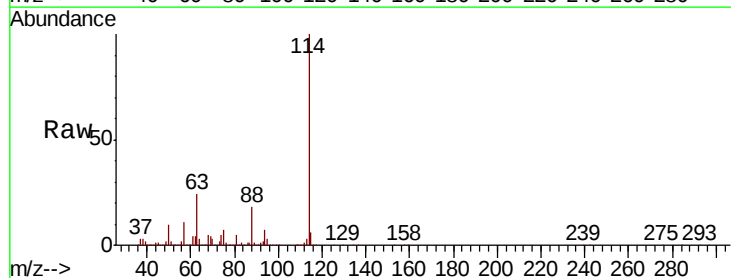
RT: 7.31 min Scan# 1359

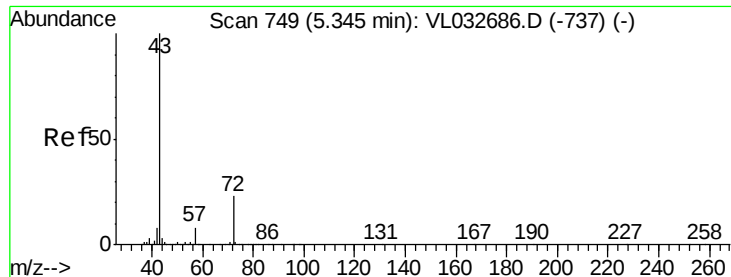
Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	114	Resp:	3530022
Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.7	32.5
88	17.9	14.9	22.3





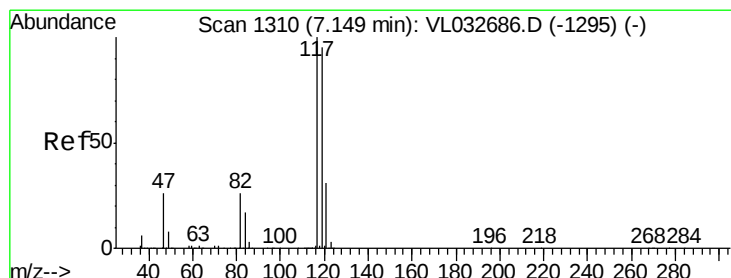
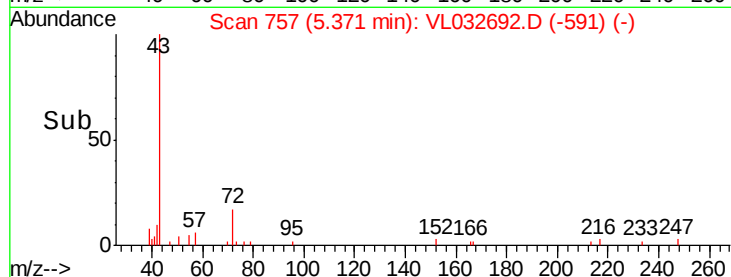
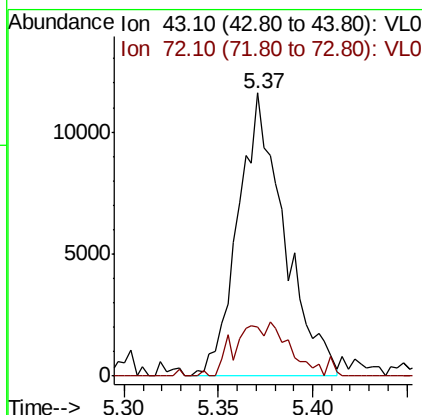
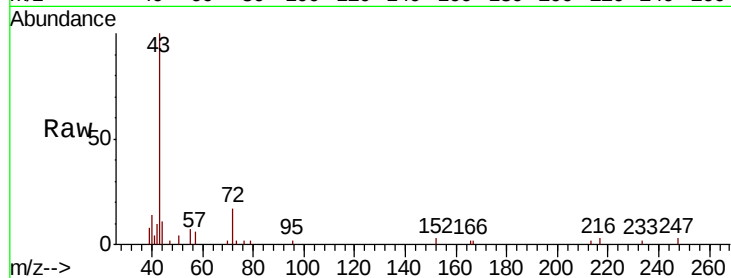
#34
2-Butanone
Concen: 0.105 ppbv m
RT: 5.37 min Scan# 757
Delta R.T. 0.03 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 43 Resp: 19790
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#

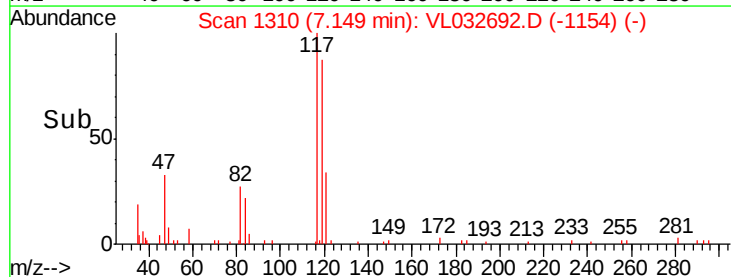
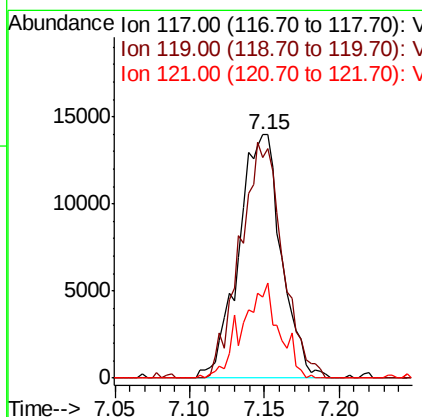
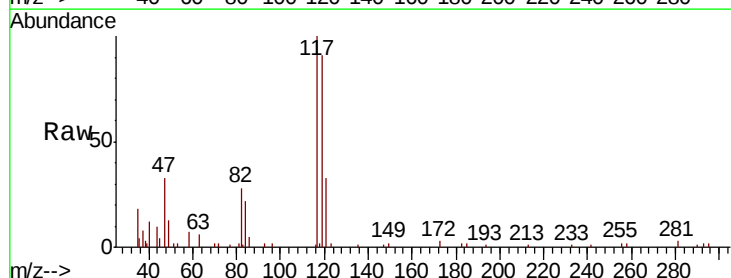
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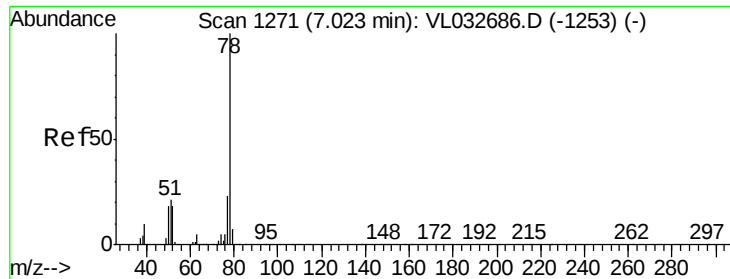
MMDadoda
10/26/2018 3:40:01 PM



#35
Carbon Tetrachloride
Concen: 0.111 ppbv m
RT: 7.15 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion: 117 Resp: 27788
Ion Ratio Lower Upper
117 100
119 90.7 75.7 113.5
121 33.0 24.7 37.1





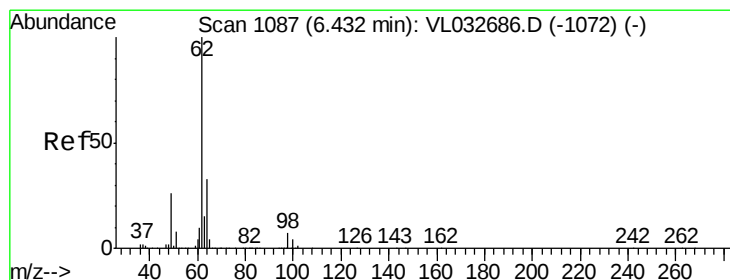
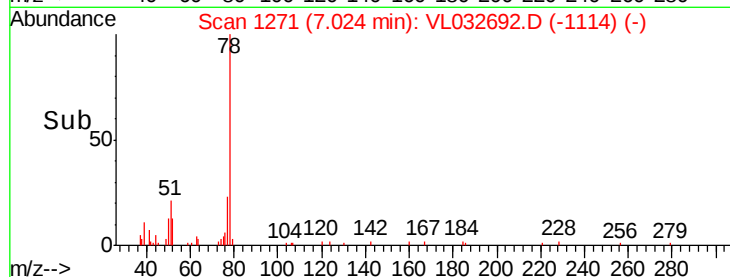
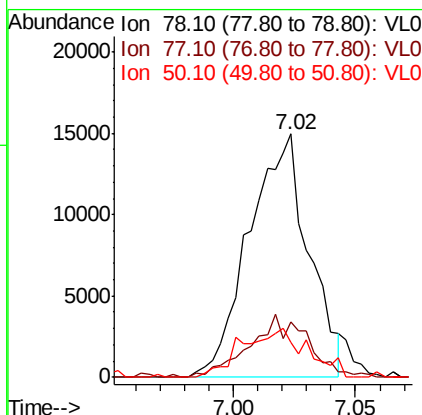
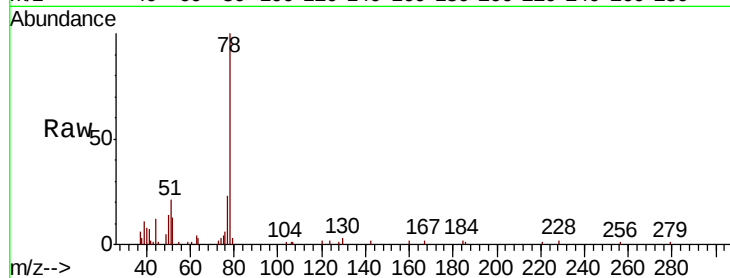
#36
Benzene
Concen: 0.088 ppbv
RT: 7.02 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.1	27.1
50	14.3	15.1	22.7

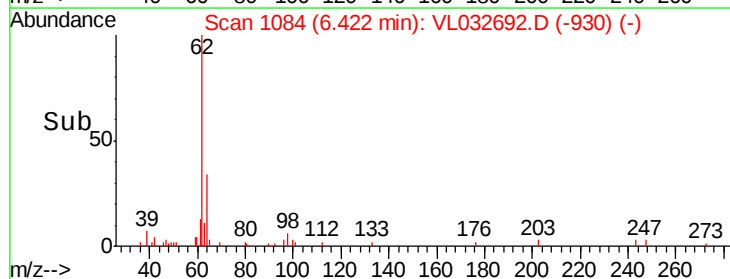
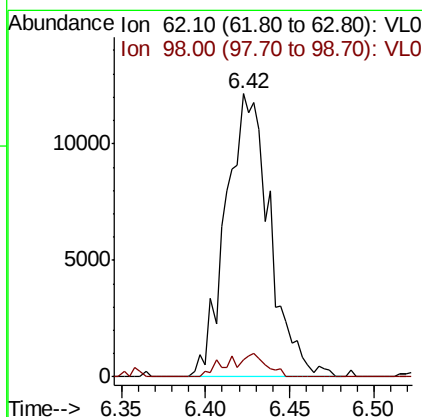
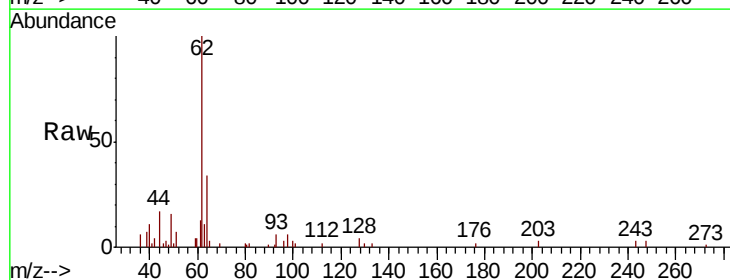
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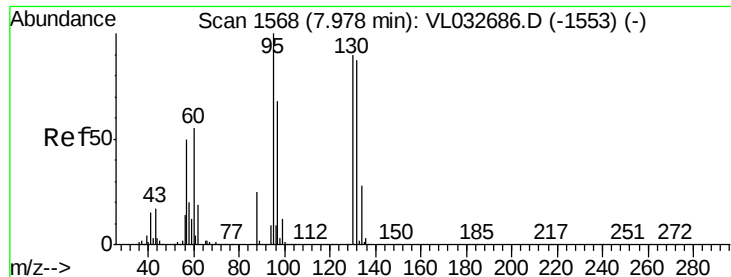
MMDadoda
10/26/2018 3:40:01 PM



#37
1,2-Dichloroethane
Concen: 0.125 ppbv m
RT: 6.42 min Scan# 1084
Delta R.T. -0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.2	4.4	6.6





#38

Trichloroethene

Concen: 0.109 ppbv m

RT: 7.98 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VL032692.D

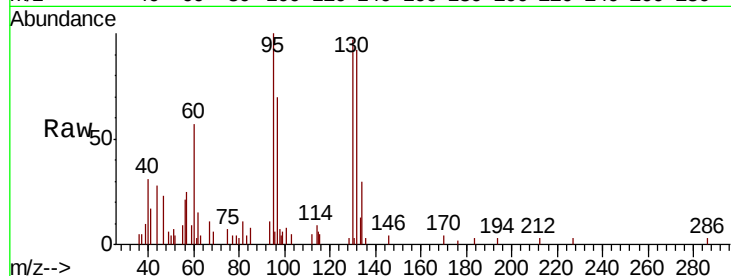
Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2018



Tgt Ion:130 Resp: 11565

Ion Ratio Lower Upper

130 100

95 103.2 93.4 140.0

132 94.6 76.5 114.7

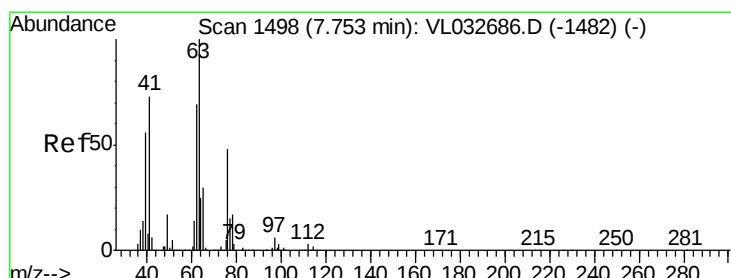
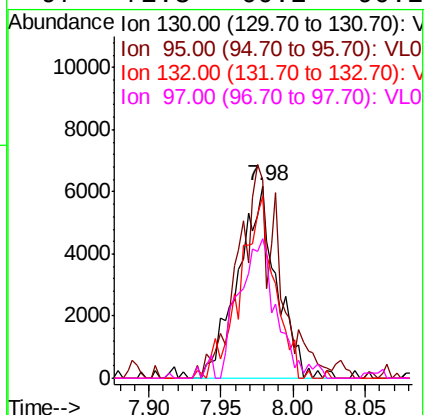
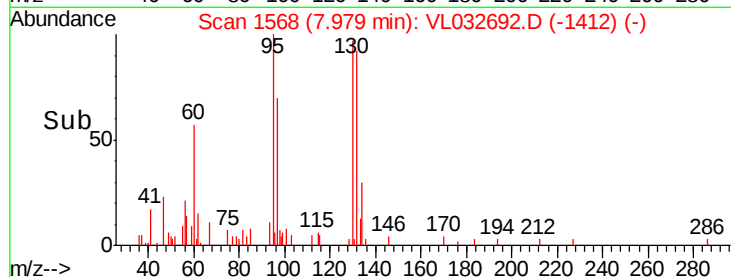
97 72.3 60.2 90.2

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#39

1,2-Dichloropropane

Concen: 0.103 ppbv m

RT: 7.75 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

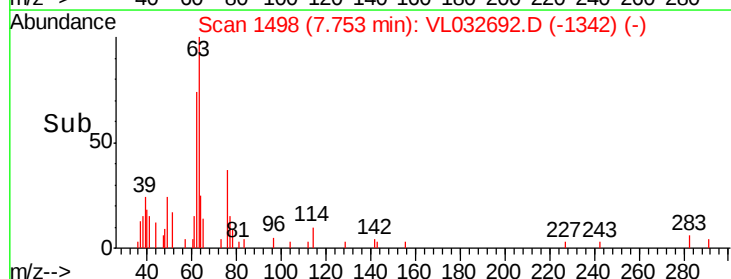
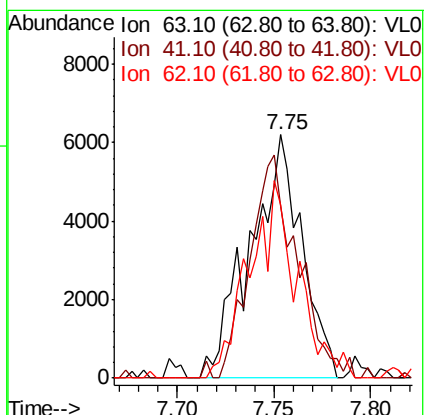
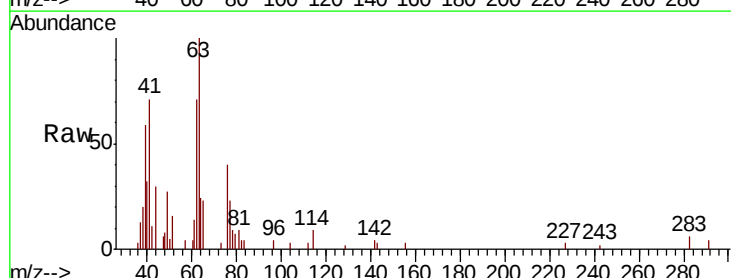
Tgt Ion: 63 Resp: 11439

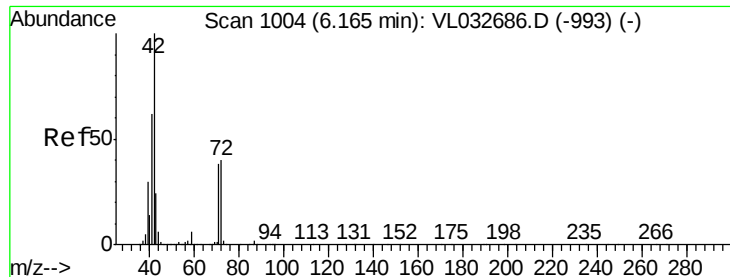
Ion Ratio Lower Upper

63 100

41 70.5 56.2 84.4

62 70.9 54.4 81.6





#41

Tetrahydrofuran

Concen: 0.073 ppbv m

RT: 6.22 min Scan# 1020

Delta R.T. 0.05 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

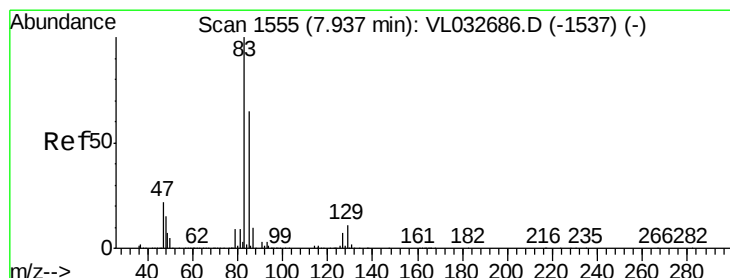
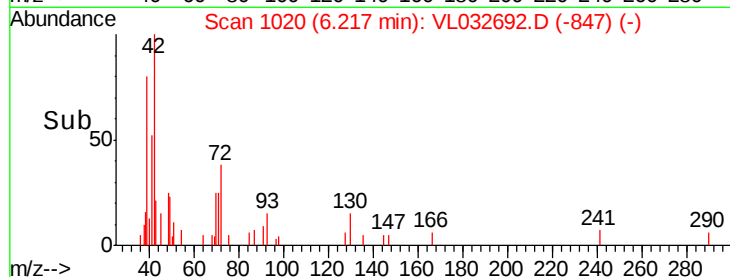
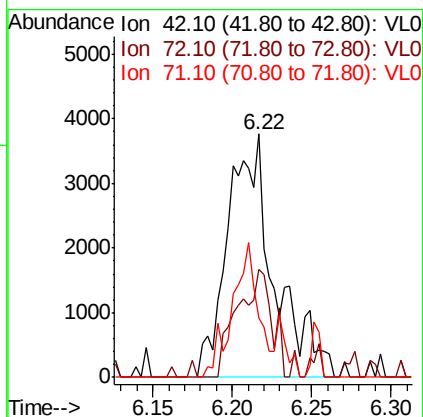
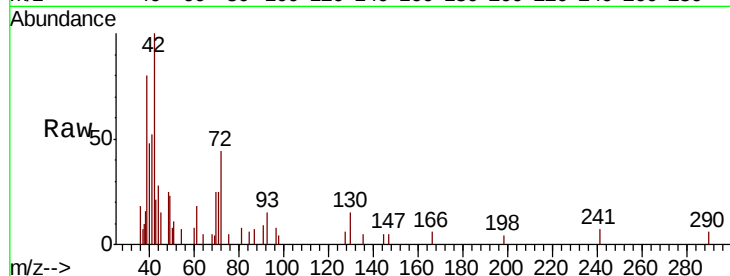
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	42	Resp:	7677
Ion Ratio	Lower	Upper	
42	100		
72	0.0	32.4	48.6#
71	0.0	31.3	46.9#

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#42

Bromodichloromethane

Concen: 0.115 ppbv m

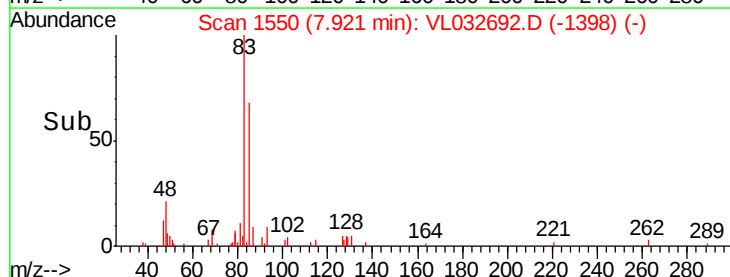
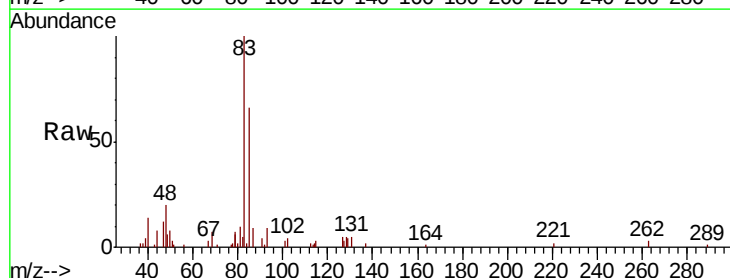
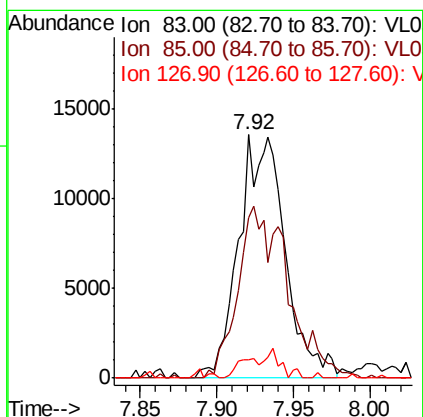
RT: 7.92 min Scan# 1550

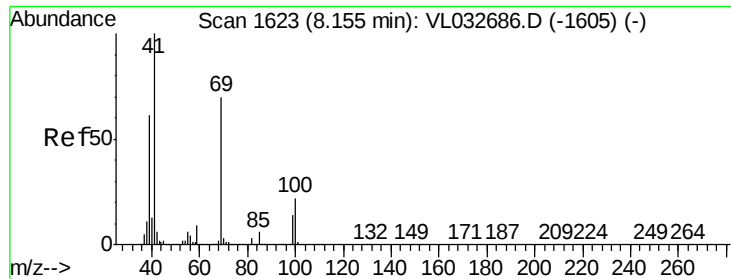
Delta R.T. -0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	83	Resp:	28339
Ion Ratio	Lower	Upper	
83	100		
85	65.9	52.4	78.6
127	4.6	6.1	9.1#





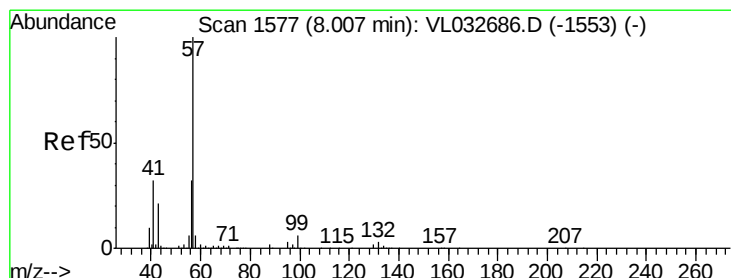
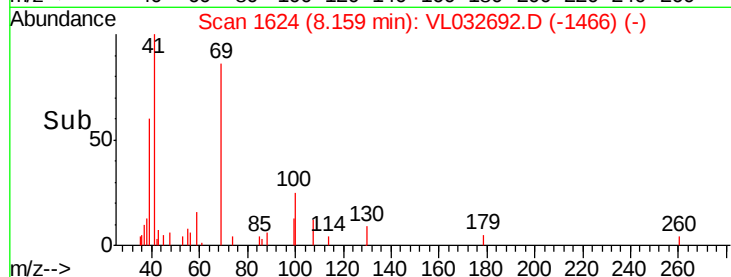
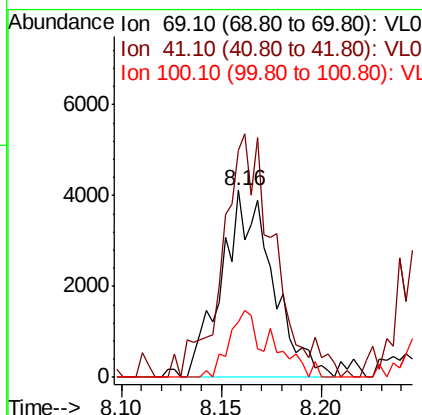
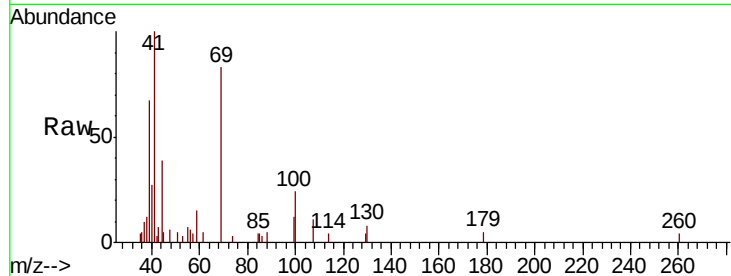
#43
Methyl Methacrylate
Concen: 0.069 ppbv m
RT: 8.16 min Scan# 1624
Delta R.T. 0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	113.2	169.8#
100	0.0	24.4	36.6#

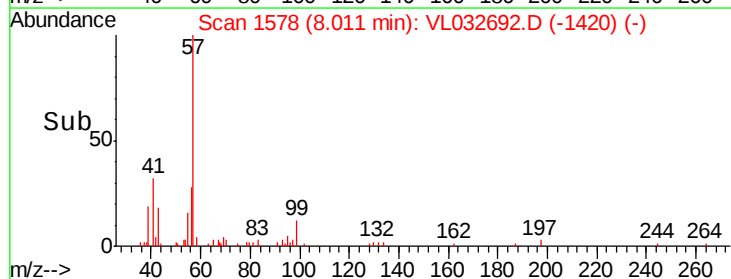
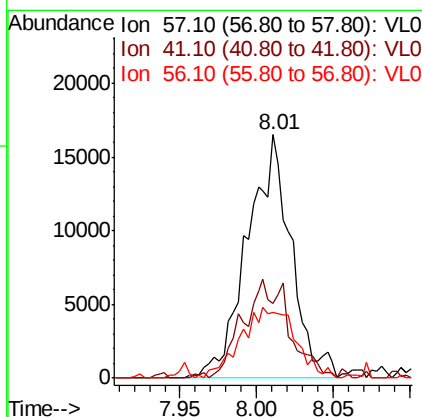
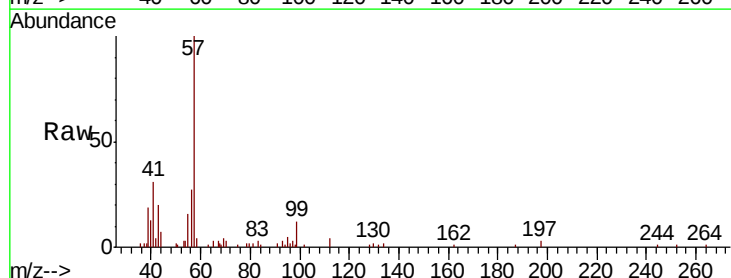
Manual Integrations
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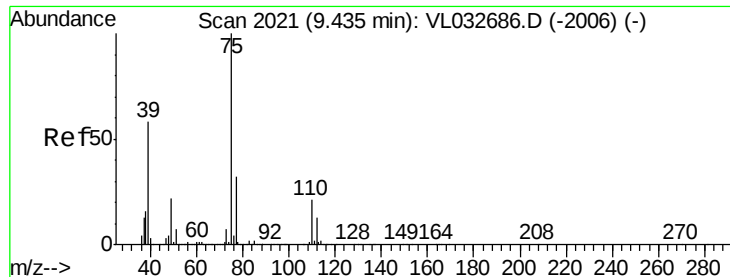
MMDadoda
10/26/2018 3:40:01 PM



#44
2,2,4-Trimethylpentane
Concen: 0.066 ppbv m
RT: 8.01 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	44.6	24.7	37.1#
56	39.0	25.0	37.4#





#45

t-1,3-Dichloropropene

Concen: 0.071 ppbv m

RT: 9.45 min Scan# 2025

Delta R.T. 0.02 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 75 Resp: 10033

Ion Ratio Lower Upper

75 100

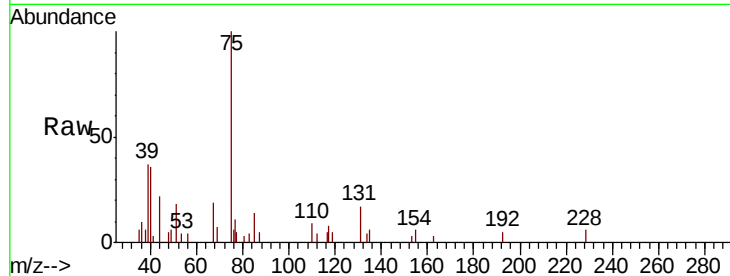
77 5.2 25.3 37.9#

Manual Integrations

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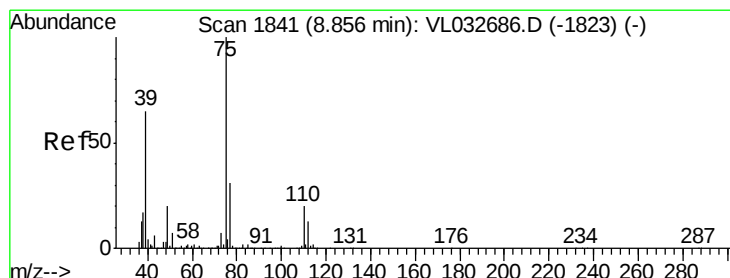
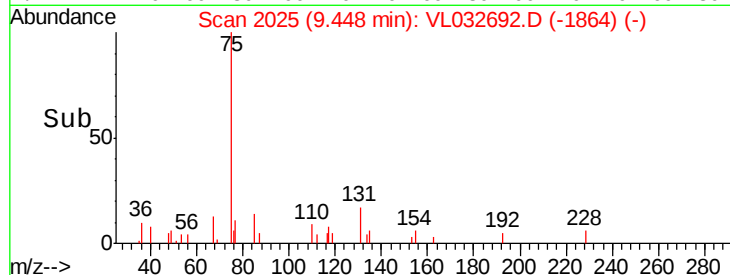
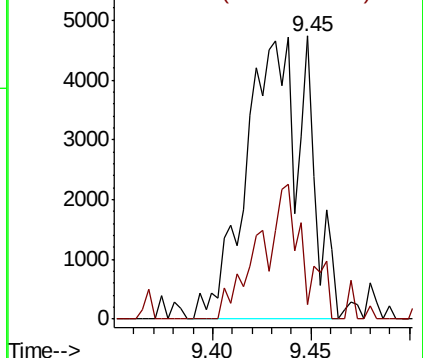
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.071 ppbv m

RT: 8.85 min Scan# 1840

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

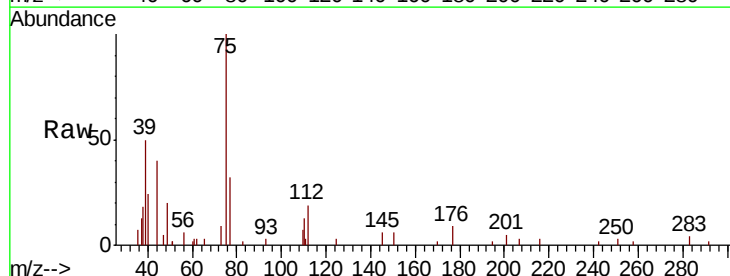
Tgt Ion: 75 Resp: 11428

Ion Ratio Lower Upper

75 100

39 50.1 50.9 76.3#

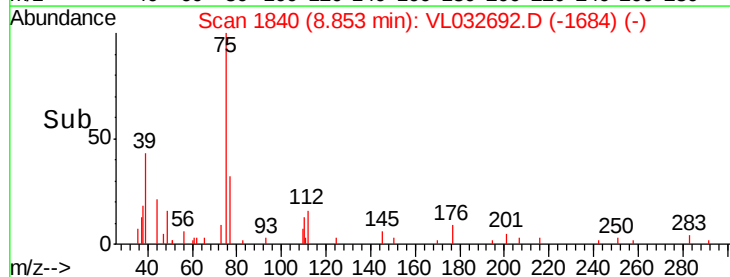
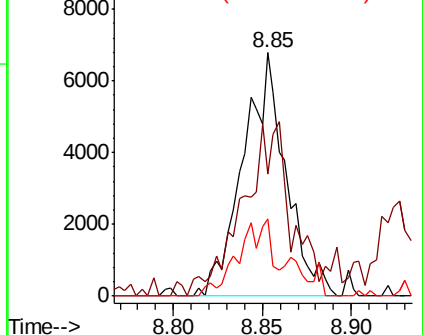
77 32.0 25.8 38.6

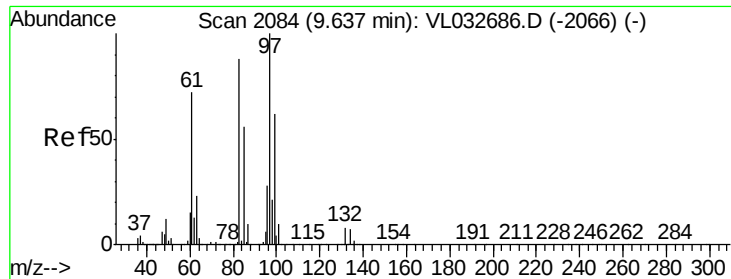


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 0.110 ppbv m

RT: 9.63 min Scan# 2083

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

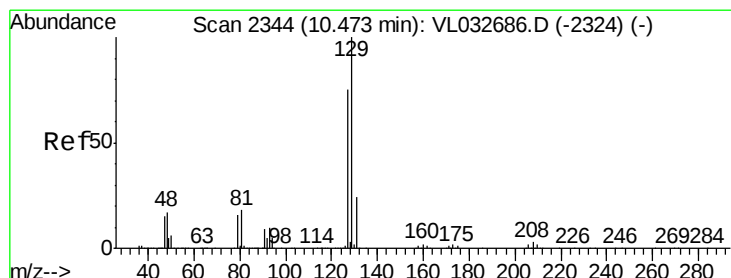
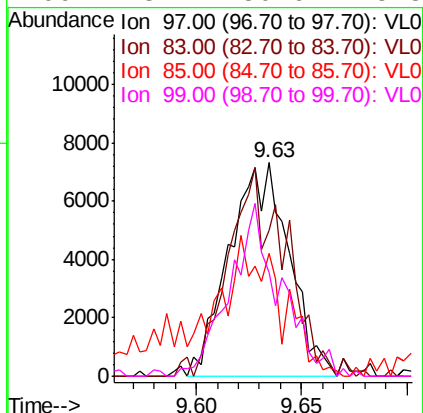
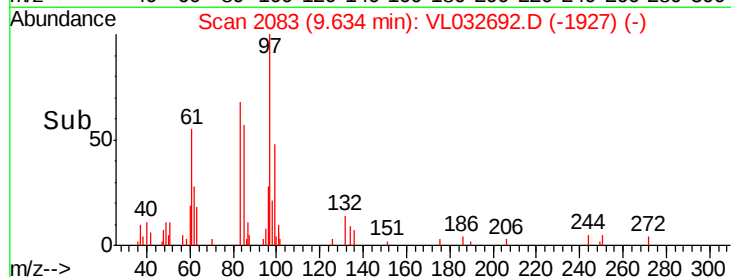
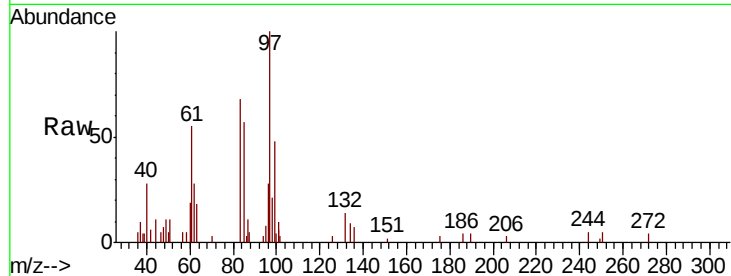
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	97	Resp:	14345
Ion Ratio	Lower	Upper	
97	100		
83	68.4	73.5	110.3#
85	57.5	45.8	68.6
99	48.4	50.6	75.8#

Manual Integrations
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#48

Dibromochloromethane

Concen: 0.085 ppbv m

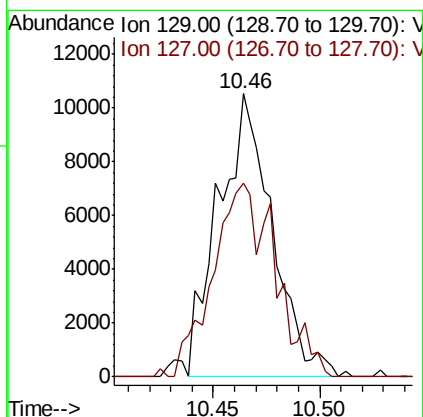
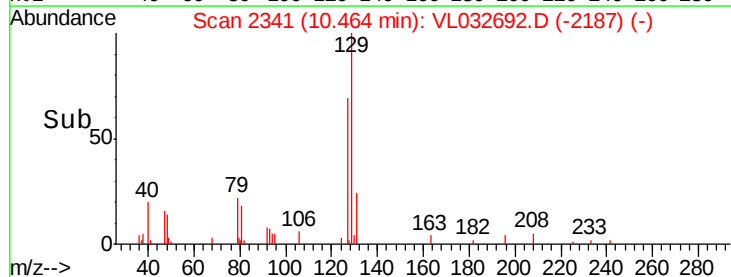
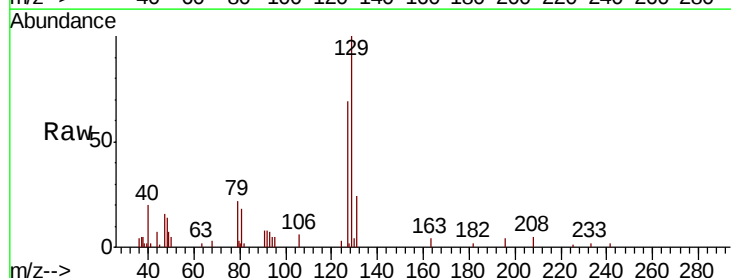
RT: 10.46 min Scan# 2341

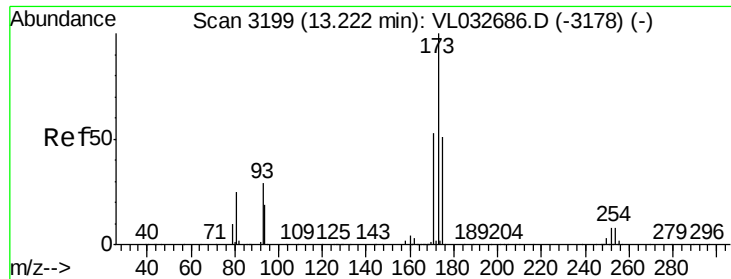
Delta R.T. -0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	129	Resp:	18547
Ion Ratio	Lower	Upper	
129	100		
127	79.9	39.1	117.5





#49

Bromoform

Concen: 0.091 ppbv m

RT: 13.22 min Scan# 3198

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

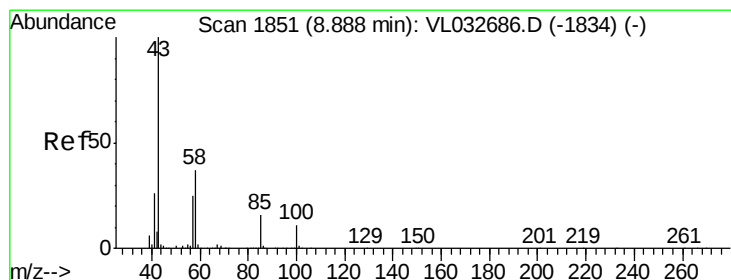
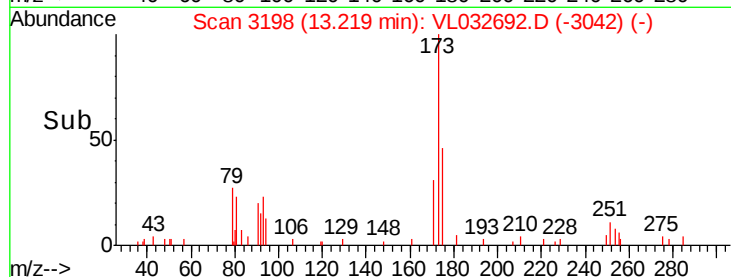
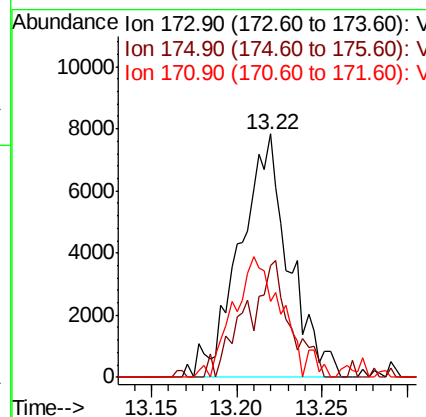
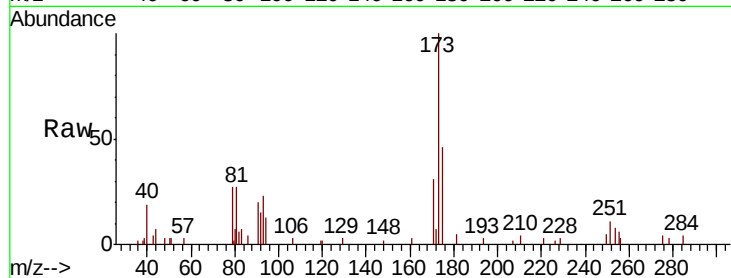
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	173	Resp:	15670
Ion Ratio	Lower	Upper	
173	100		
175	43.6	39.0	58.4
171	49.2	42.2	63.2

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.079 ppbv m

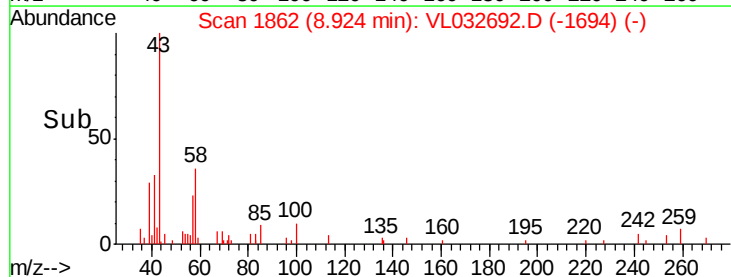
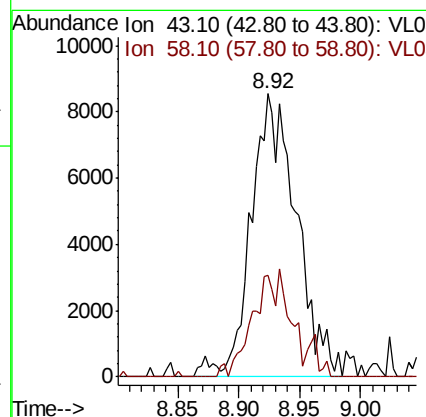
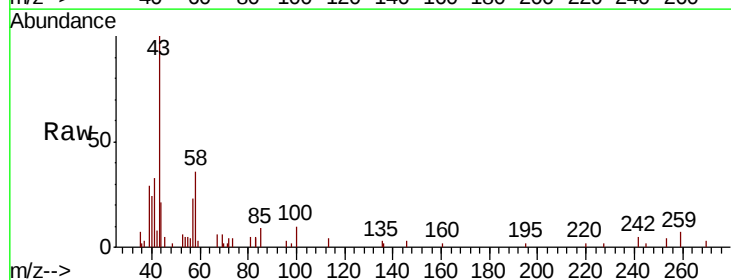
RT: 8.92 min Scan# 1862

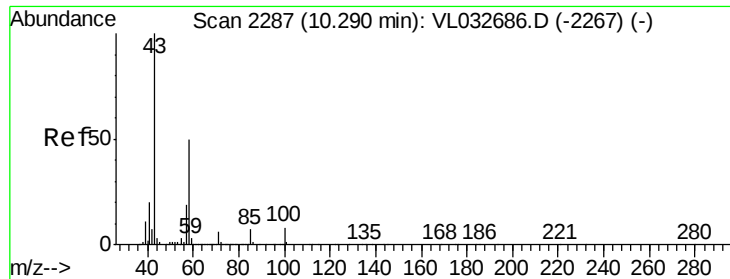
Delta R.T. 0.04 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	43	Resp:	22235
Ion Ratio	Lower	Upper	
43	100		
58	0.0	29.7	44.5#





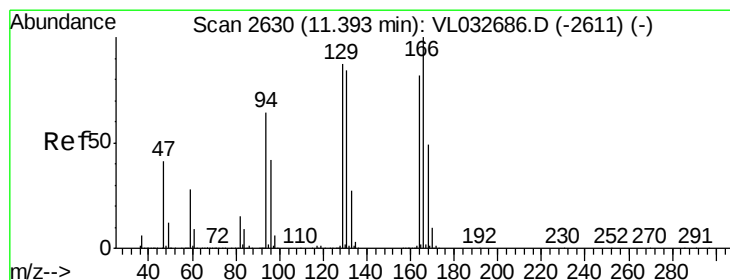
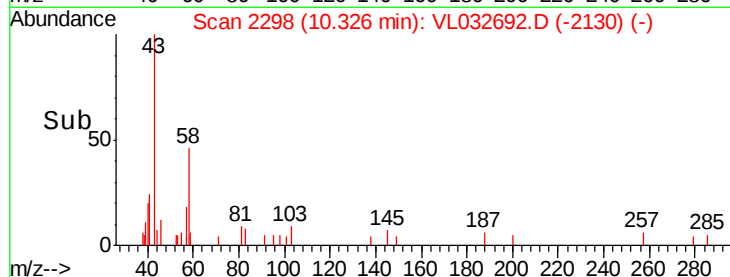
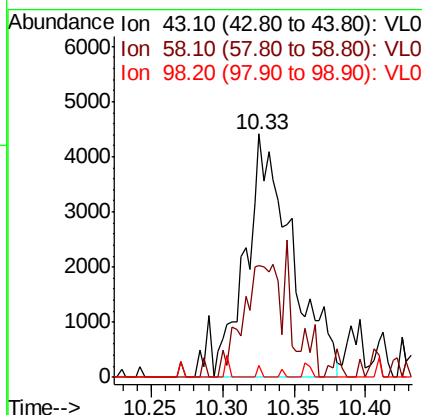
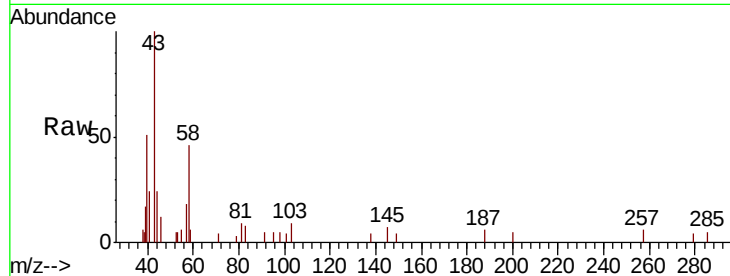
#51
2-Hexanone
Concen: 0.049 ppbv m
RT: 10.33 min Scan# 2298
Delta R.T. 0.04 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.8	0.4	0.6#

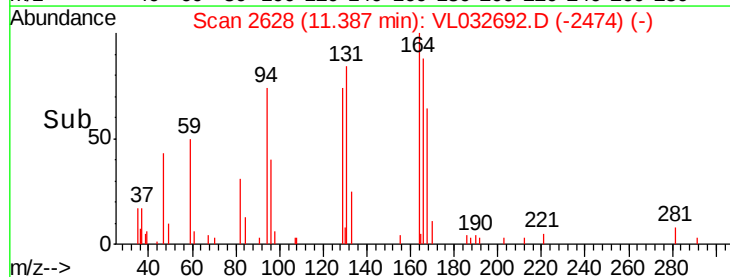
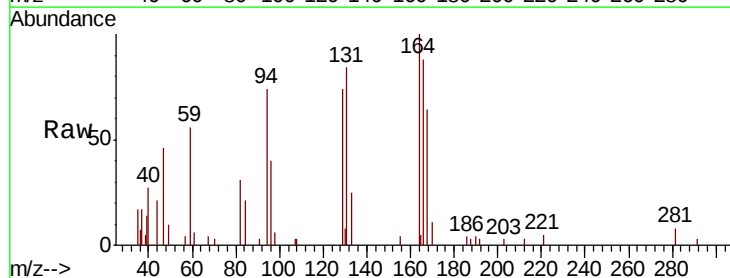
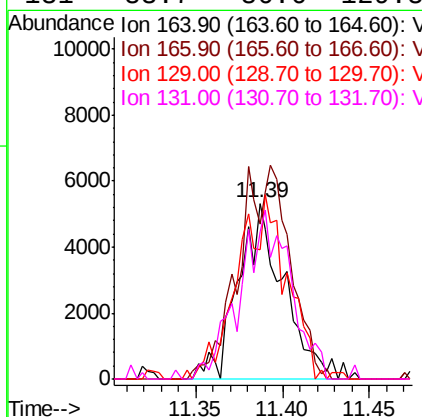
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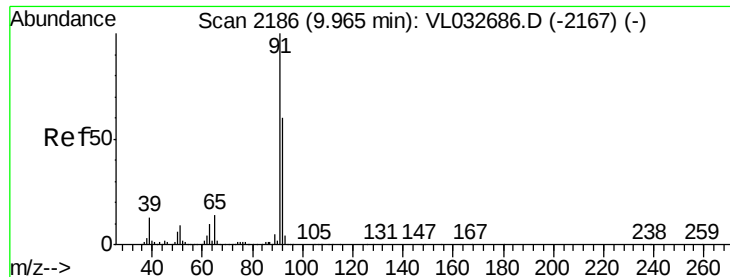
MMDadoda
10/26/2018 3:40:01 PM



#52
Tetrachloroethene
Concen: 0.097 ppbv m
RT: 11.39 min Scan# 2628
Delta R.T. -0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	88.2	100.5	150.7#
129	73.5	90.0	135.0#
131	83.7	86.6	129.8#





#53

Toluene

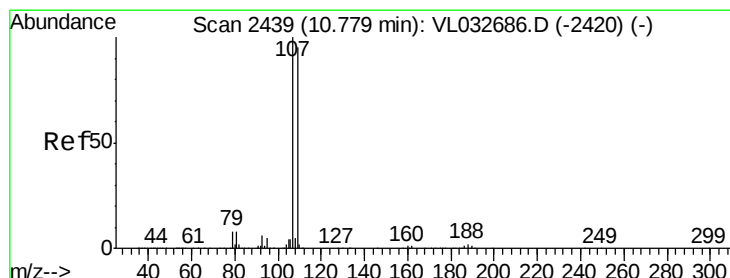
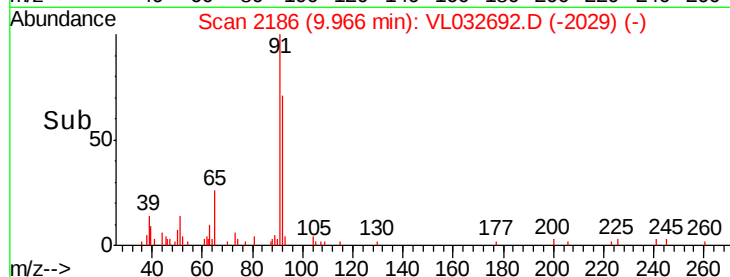
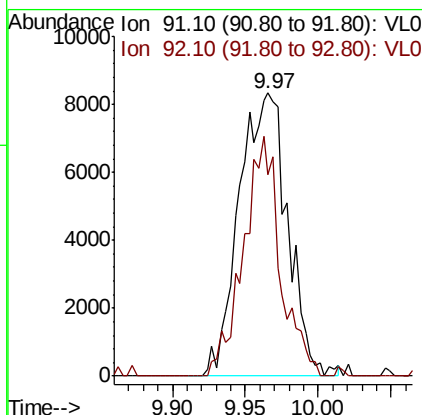
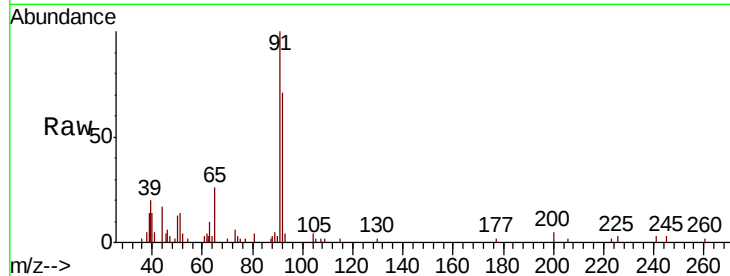
Concen: 0.059 ppbv m
RT: 9.97 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 91 Resp: 19317
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#

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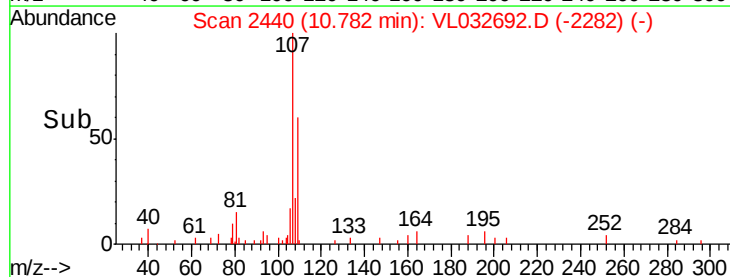
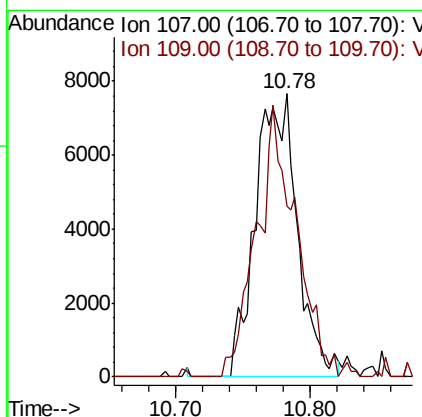
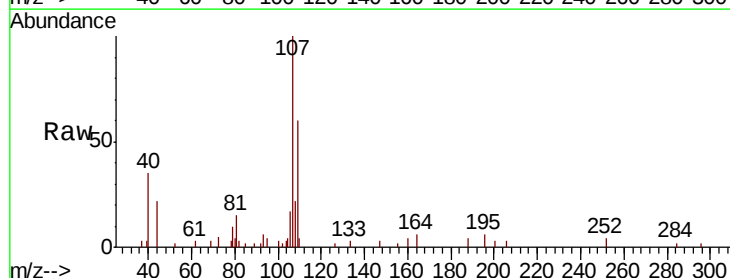


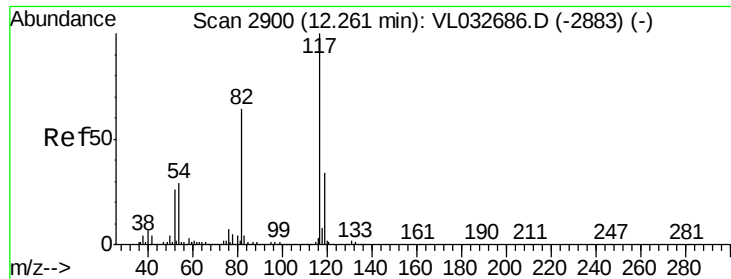
#54

1,2-Dibromoethane

Concen: 0.093 ppbv m
RT: 10.78 min Scan# 2440
Delta R.T. 0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion: 107 Resp: 16481
Ion Ratio Lower Upper
107 100
109 60.3 75.3 112.9#





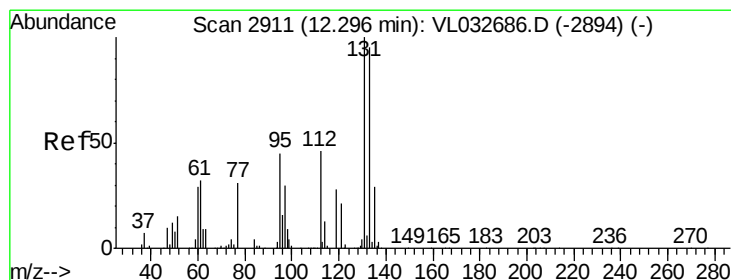
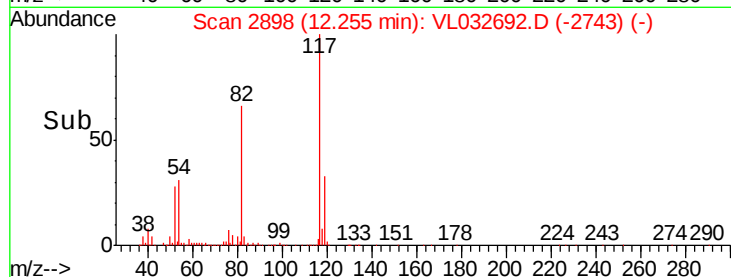
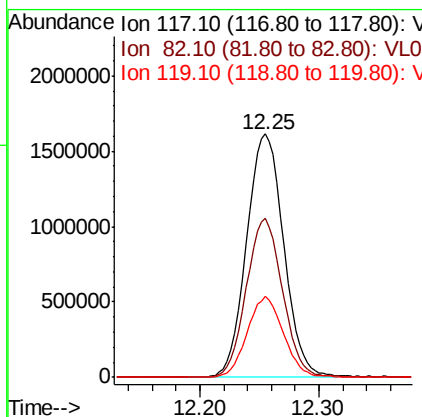
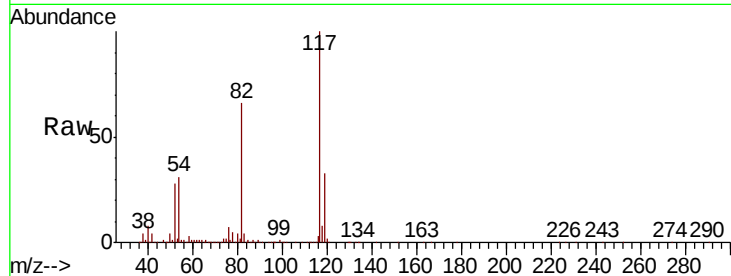
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion:117 Resp: 3489436
Ion Ratio Lower Upper
117 100
82 64.1 52.7 79.1
119 32.6 26.7 40.1

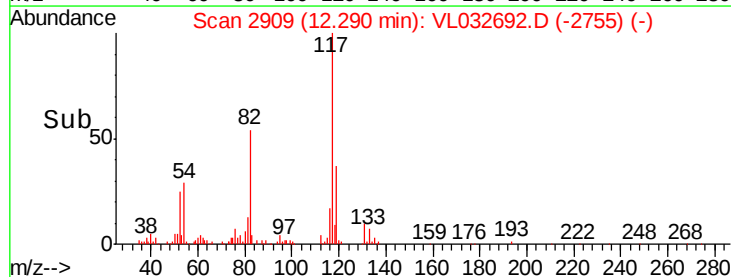
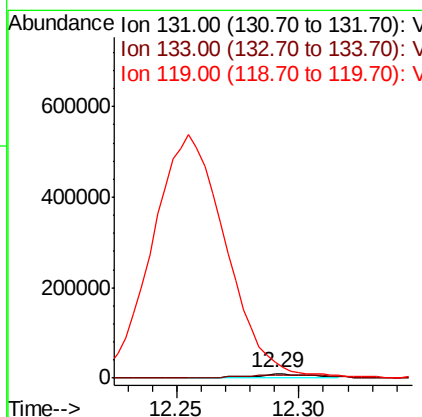
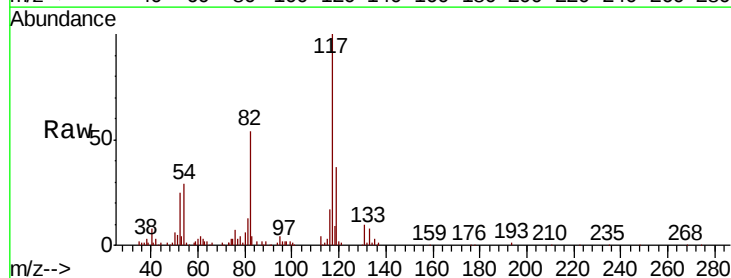
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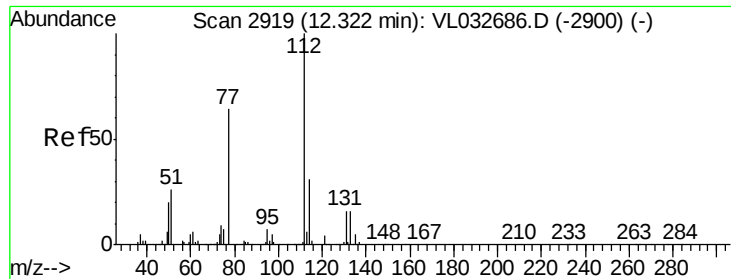
MMDadoda
10/26/2018 3:40:01 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.105 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion:131 Resp: 16093
Ion Ratio Lower Upper
131 100
133 106.5 75.4 113.2
119 7094.9 49.1 73.7#





#57

Chlorobenzene

Concen: 0.117 ppbv

RT: 12.32 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

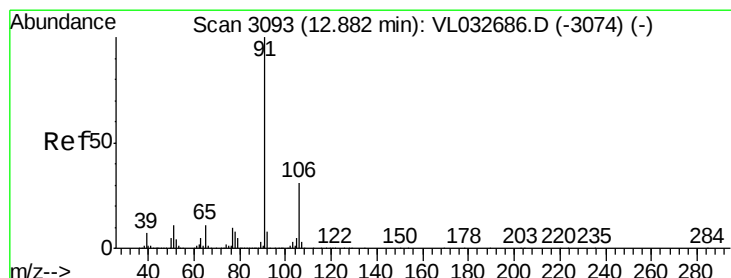
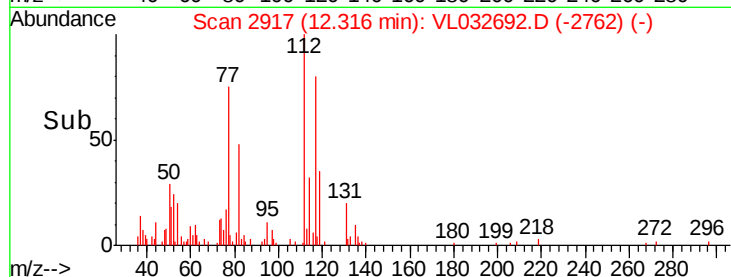
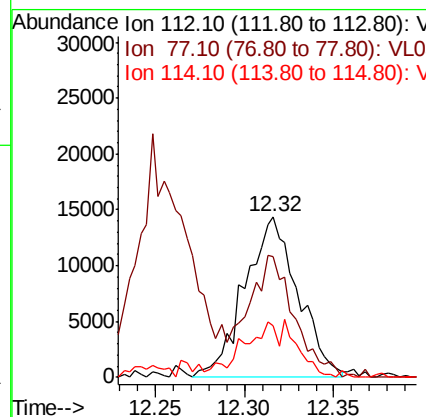
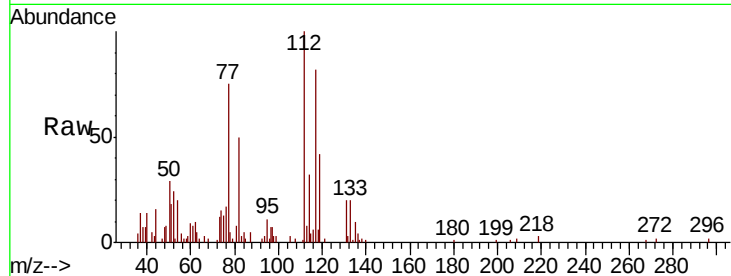
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	112	Resp:	29994
Ion Ratio	Lower	Upper	
112	100		
77	74.6	56.8	85.2
114	28.6	30.3	37.1#

Manual Integrations
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10/26/2018 3:40:01 PM



#58

Ethyl Benzene

Concen: 0.058 ppbv m

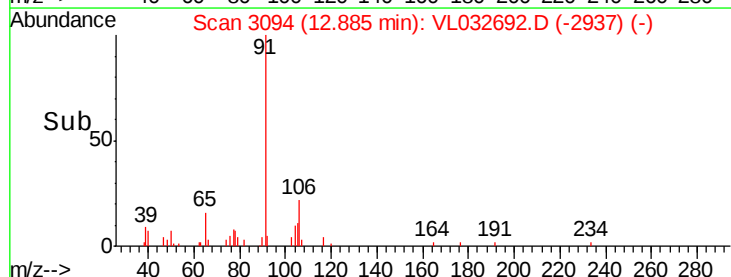
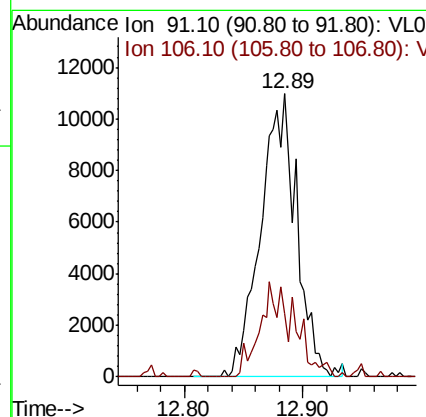
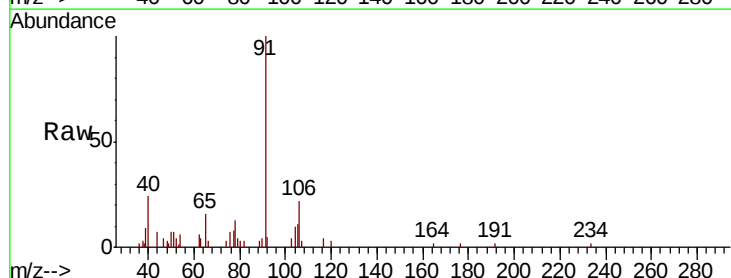
RT: 12.89 min Scan# 3094

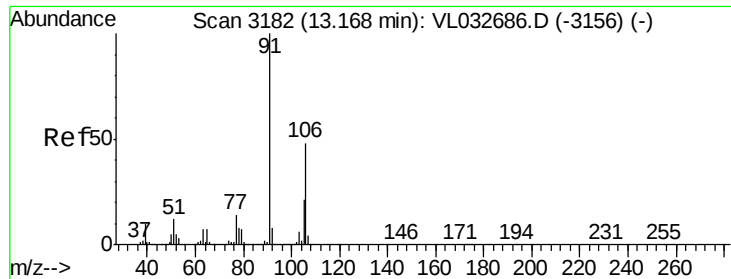
Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	91	Resp:	23516
Ion Ratio	Lower	Upper	
91	100		
106	22.3	24.2	36.2#





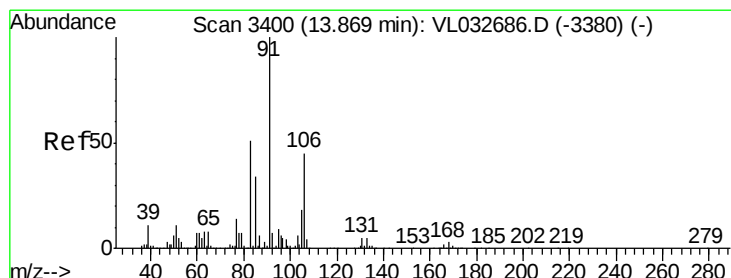
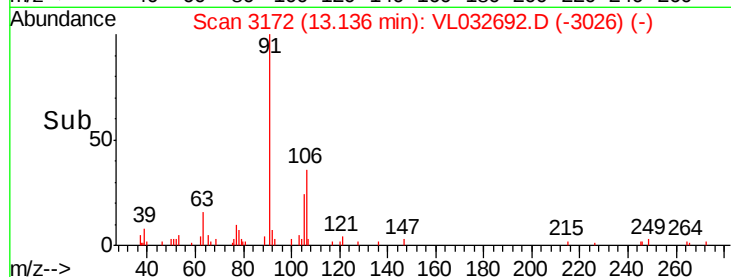
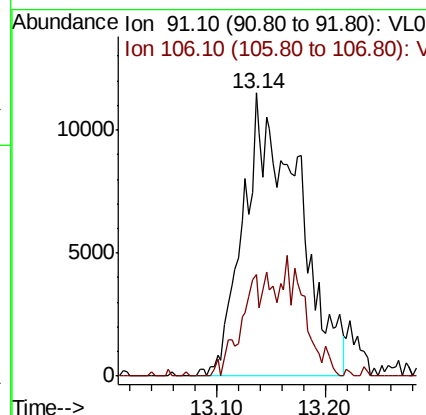
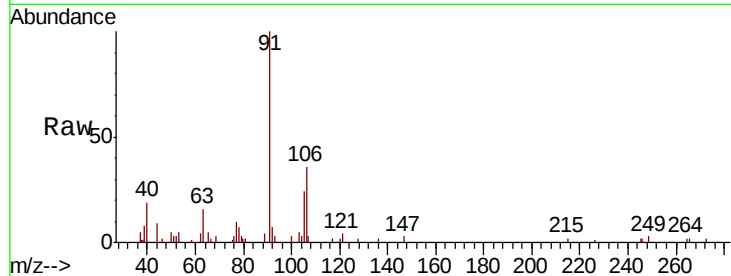
#59
m/p-Xylene
Concen: 0.113 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. -0.03 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 91 Resp: 40742
Ion Ratio Lower Upper
91 100
106 18.6 35.9 53.9#

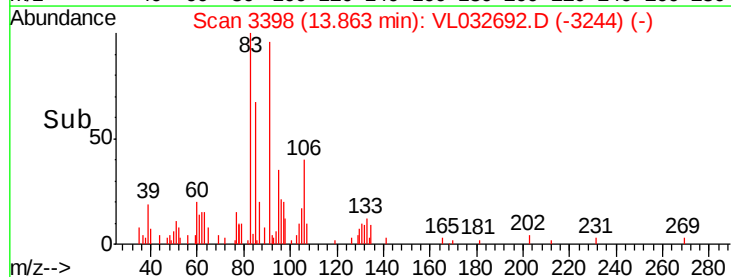
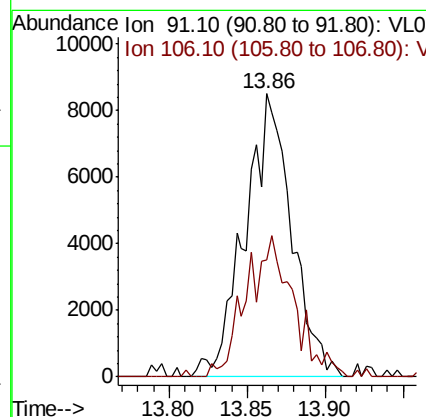
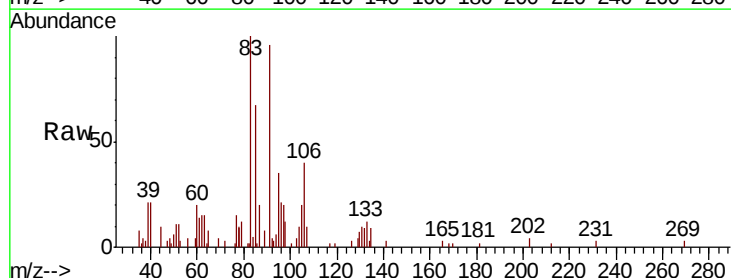
Manual Integrations
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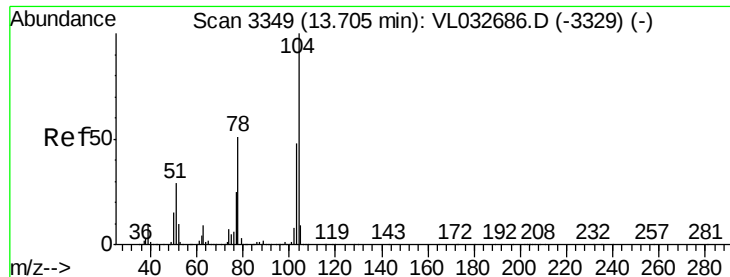
MMDadoda
10/26/2018 3:40:01 PM



#60
o-Xylene
Concen: 0.051 ppbv m
RT: 13.86 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion: 91 Resp: 17726
Ion Ratio Lower Upper
91 100
106 50.7 22.1 66.1





#61

Styrene

Concen: 0.051 ppbv m

RT: 13.70 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

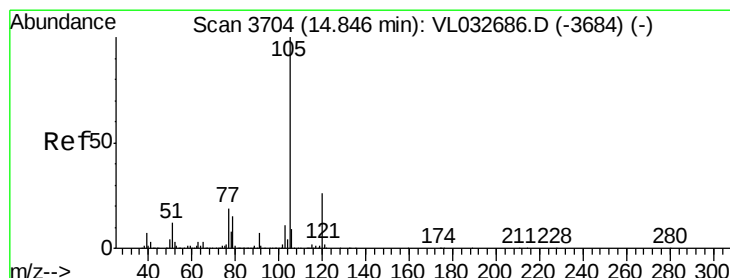
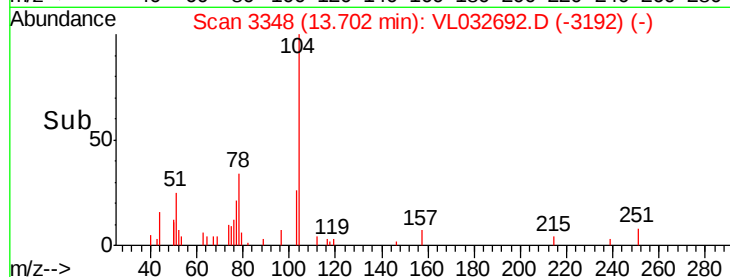
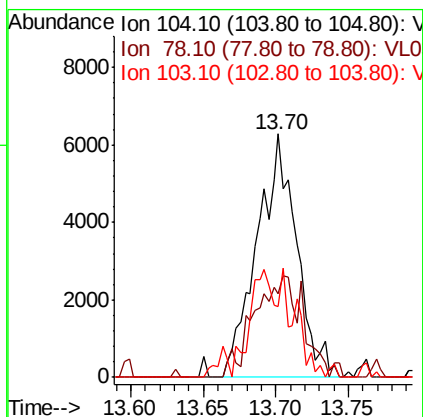
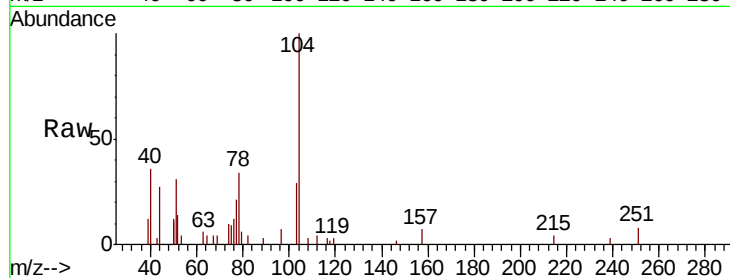
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	104	Resp:	11989
Ion Ratio	Lower	Upper	
104	100		
78	51.6	42.8	64.2
103	49.2	37.4	56.0

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#62

Isopropylbenzene

Concen: 0.069 ppbv

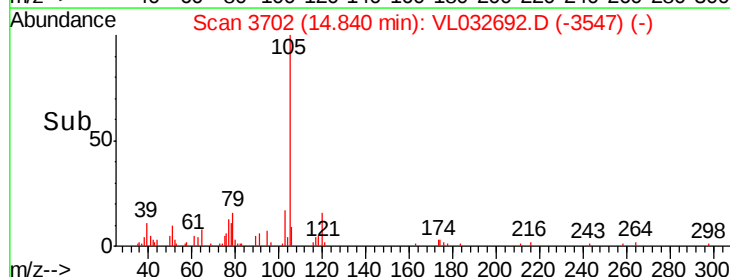
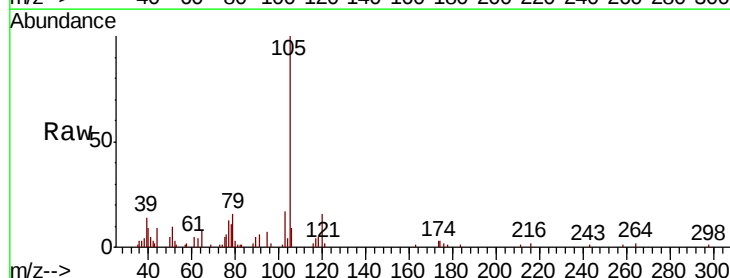
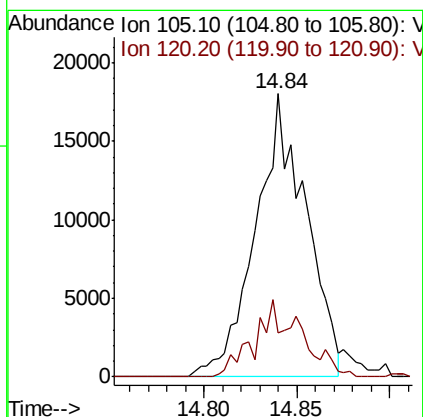
RT: 14.84 min Scan# 3702

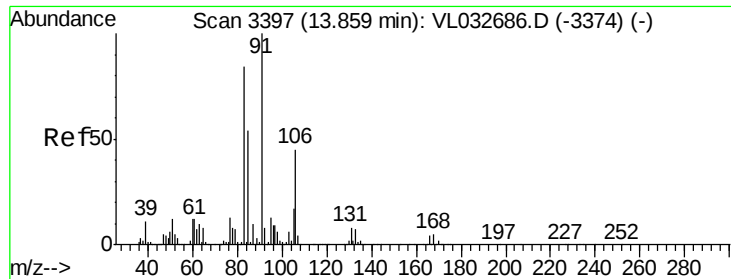
Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion:	105	Resp:	33912
Ion Ratio	Lower	Upper	
105	100		
120	24.8	20.5	30.7





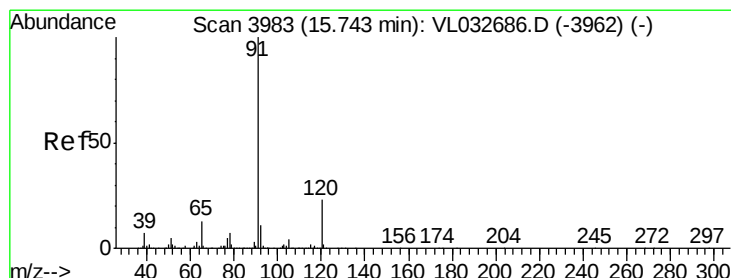
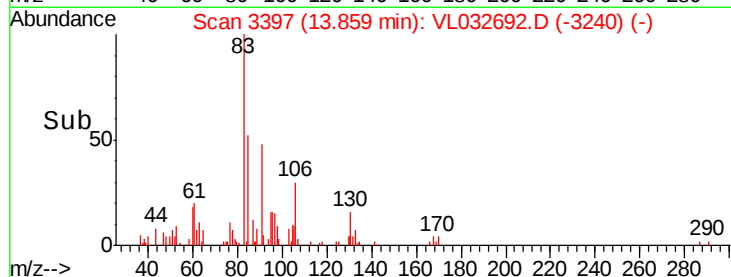
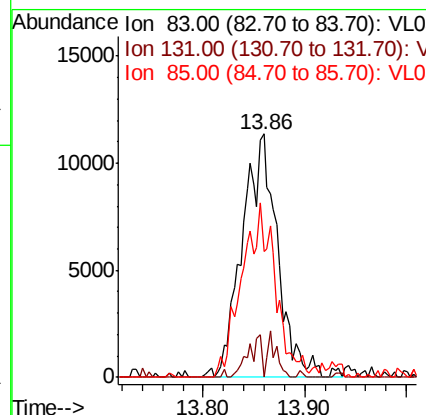
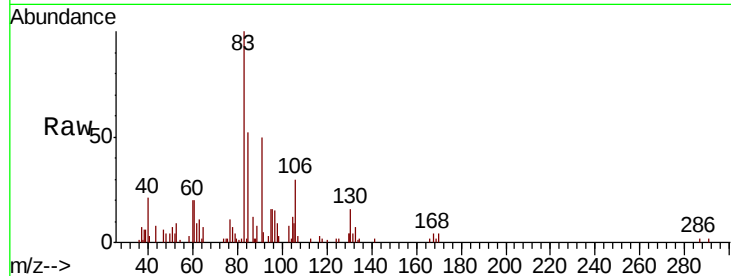
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.101 ppbv m
 RT: 13.86 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VL032692.D
 Acq: 24 Oct 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.3	12.9#
85	0.0	32.3	96.9#

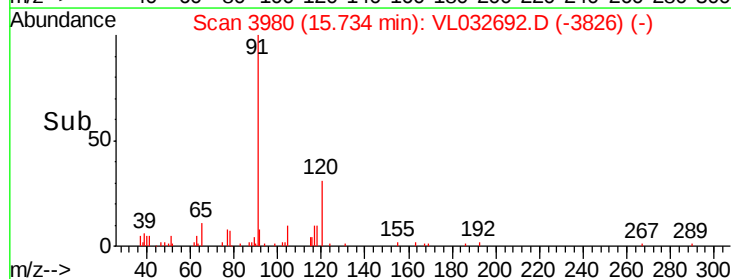
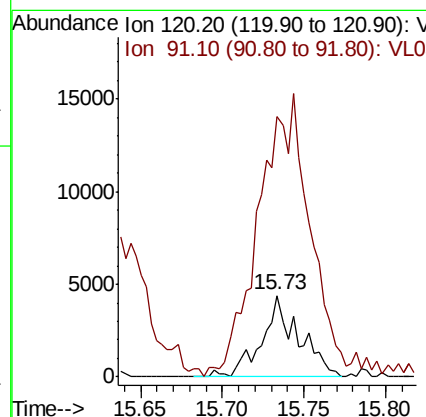
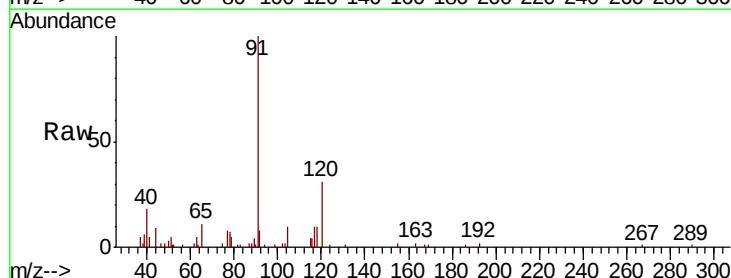
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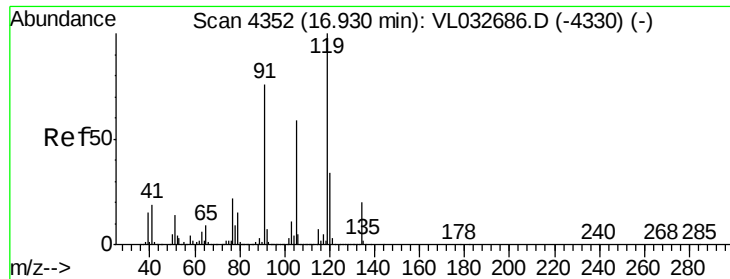
MMDadoda
 10/26/2018 3:40:01 PM



#64
 n-propylbenzene
 Concen: 0.056 ppbv m
 RT: 15.73 min Scan# 3980
 Delta R.T. -0.01 min
 Lab File: VL032692.D
 Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
120	100		
91	0.0	390.2	585.2#





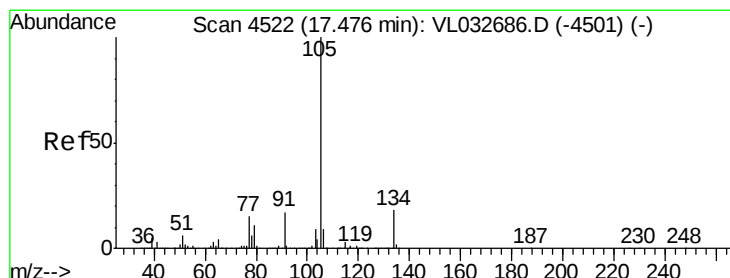
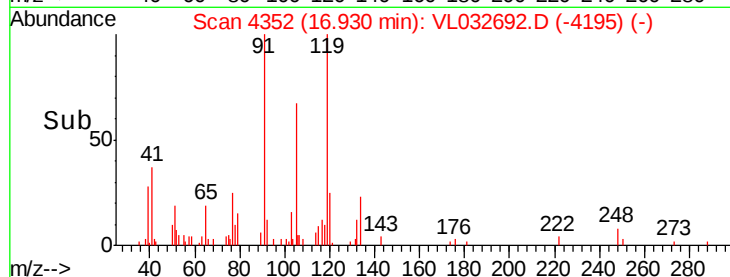
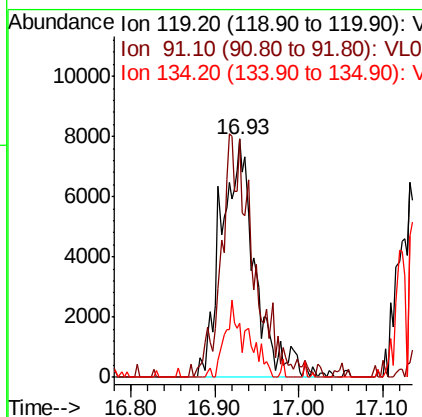
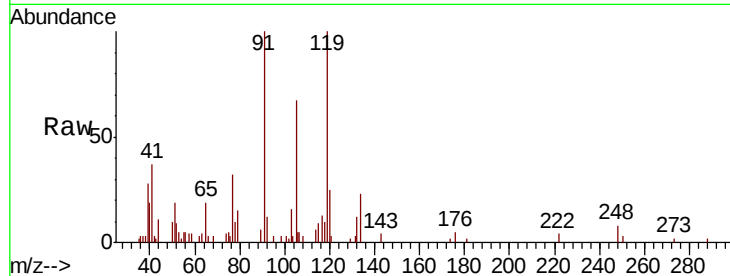
#65
tert-Butylbenzene
Concen: 0.052 ppbv m
RT: 16.93 min Scan# 4352
Delta R.T. 0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
119	100		
91	97.9	67.8	101.8
134	21.5	15.8	23.8

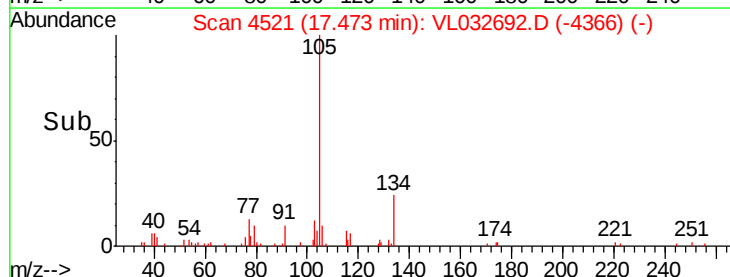
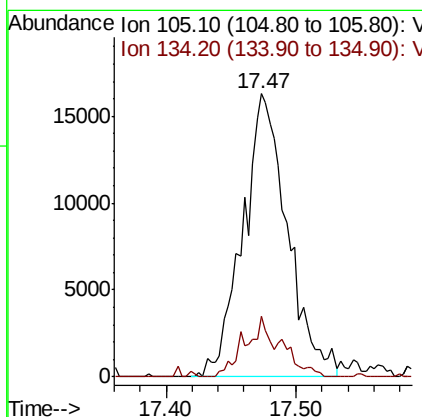
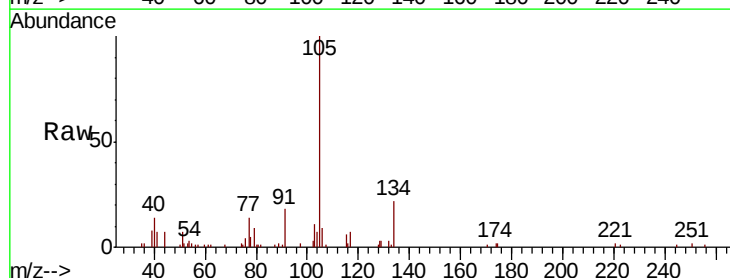
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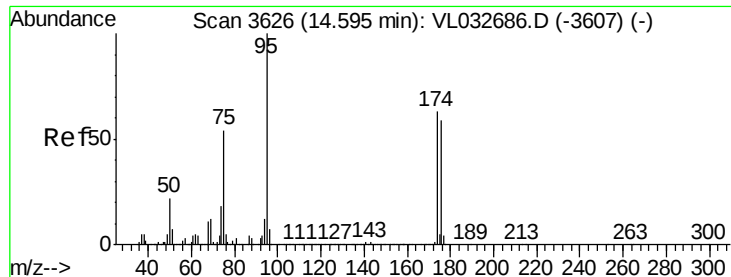
MMDadoda
10/26/2018 3:40:01 PM



#67
sec-Butylbenzene
Concen: 0.065 ppbv m
RT: 17.47 min Scan# 4521
Delta R.T. -0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
105	100		
134	17.1	14.2	21.2





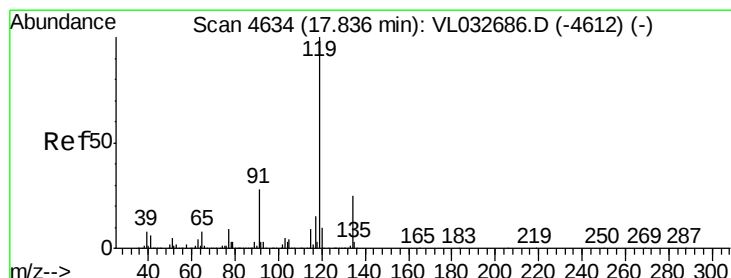
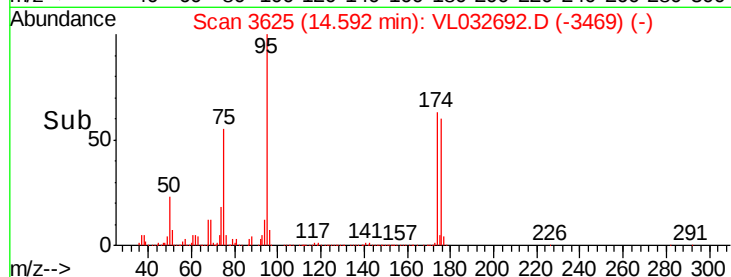
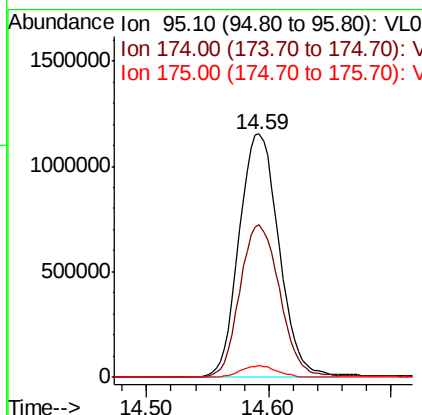
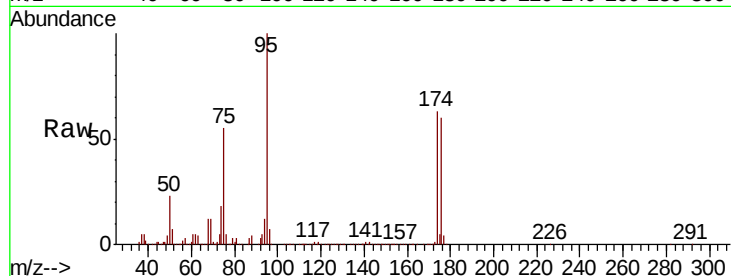
#68
1-Bromo-4-Fluorobenzene
Concen: 10.034 ppbv
RT: 14.59 min Scan# 3625
Delta R.T. 0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion: 95 Resp: 2607104
Ion Ratio Lower Upper
95 100
174 64.1 46.0 69.0
175 4.6 3.4 5.0

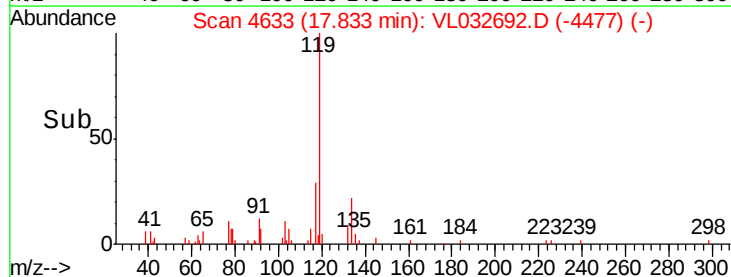
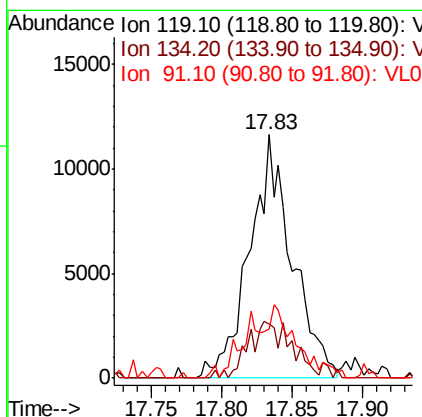
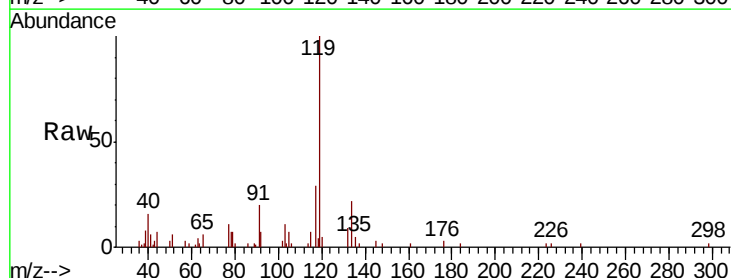
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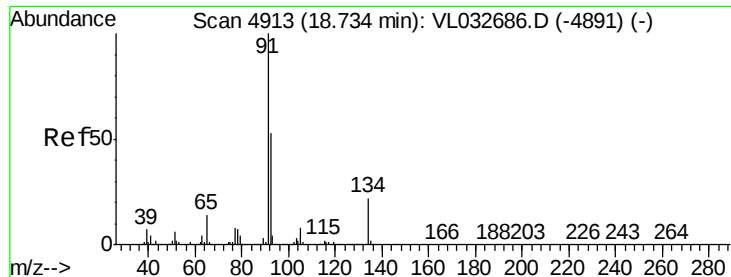
MMDadoda
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#69
p-Isopropyltoluene
Concen: 0.051 ppbv m
RT: 17.83 min Scan# 4633
Delta R.T. 0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion: 119 Resp: 24126
Ion Ratio Lower Upper
119 100
134 0.0 20.2 30.2#
91 0.0 24.0 36.0#





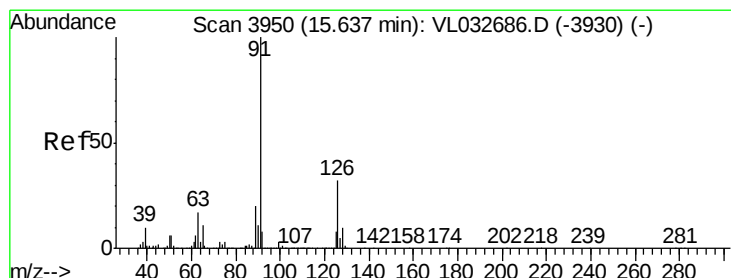
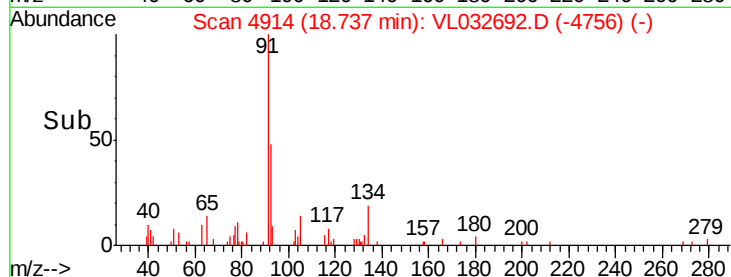
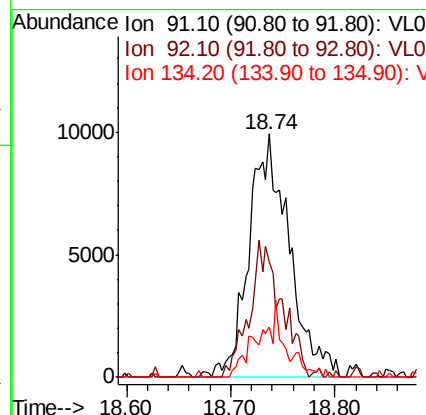
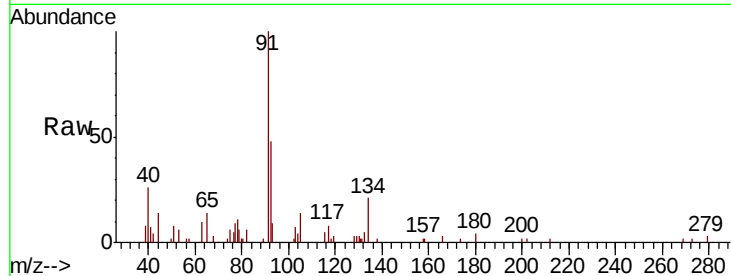
#70
n-Butylbenzene
Concen: 0.055 ppbv m
RT: 18.74 min Scan# 4914
Delta R.T. 0.01 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
91	100		
92	45.6	43.0	64.4
134	0.0	17.0	25.6#

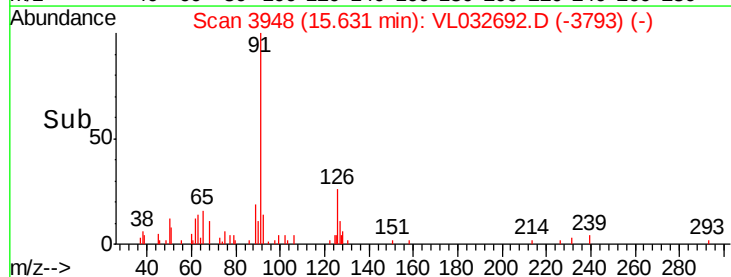
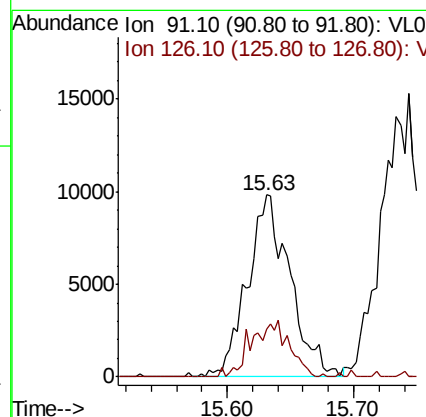
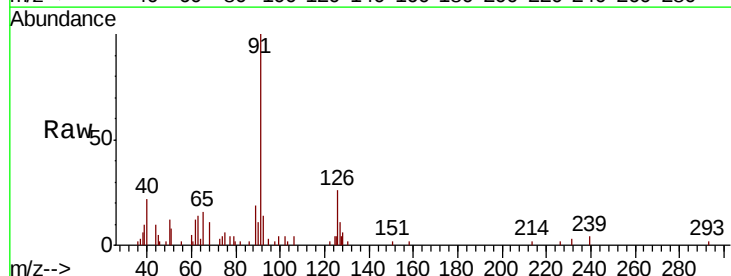
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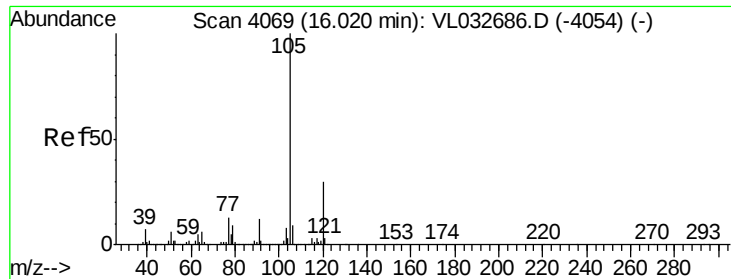
MMDadoda
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#71
2-Chlorotoluene
Concen: 0.065 ppbv m
RT: 15.63 min Scan# 3948
Delta R.T. -0.00 min
Lab File: VL032692.D
Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	47.4#





#72

4-Ethyltoluene

Concen: 0.050 ppbv m

RT: 16.01 min Scan# 4066

Delta R.T. -0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

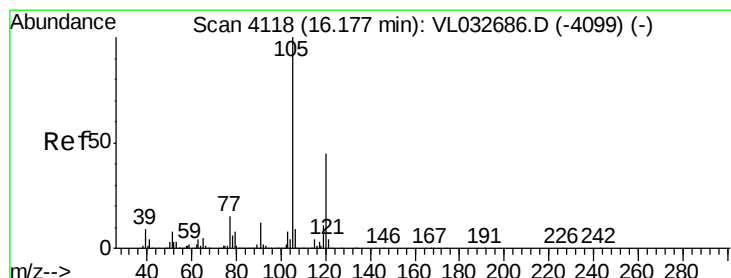
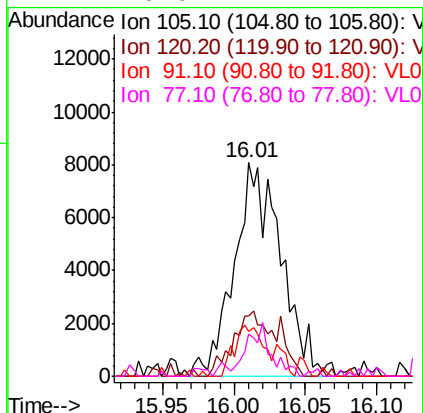
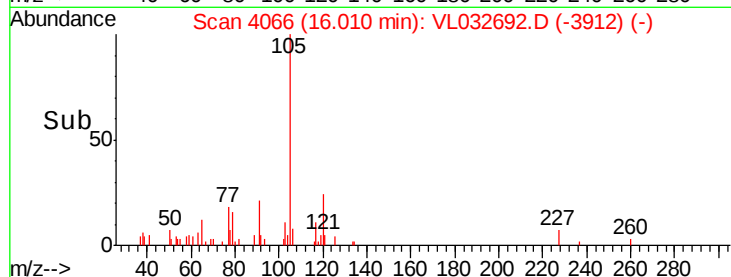
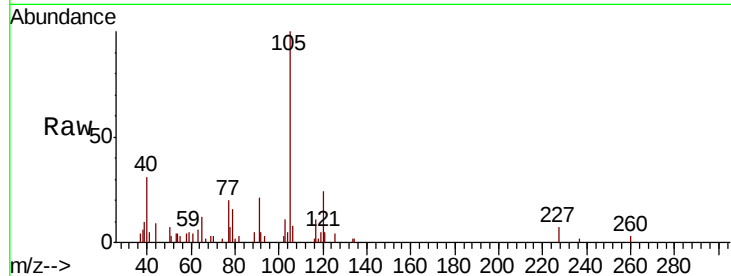
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	18594		
120	28.7	23.7	35.5	
91	19.5	10.4	15.6	
77	0.0	11.4	17.2	

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#73

1,3,5-Trimethylbenzene

Concen: 0.047 ppbv m

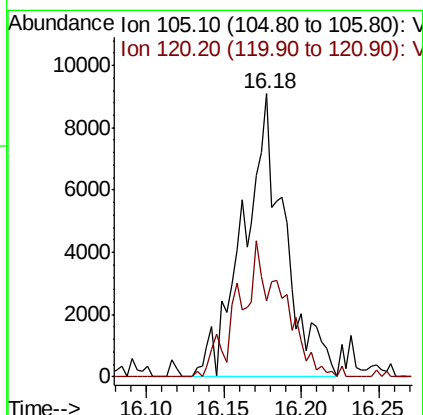
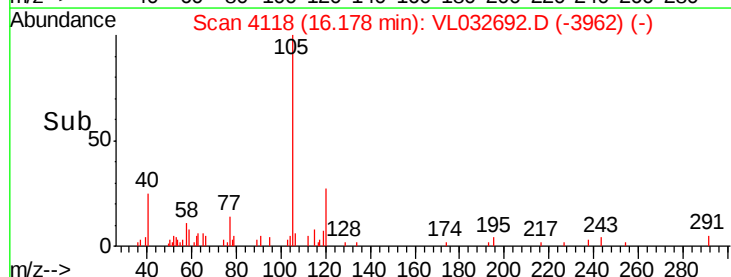
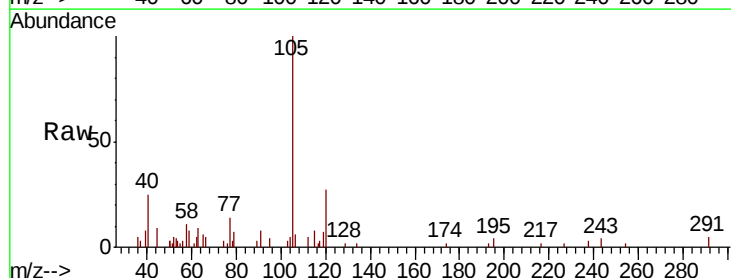
RT: 16.18 min Scan# 4118

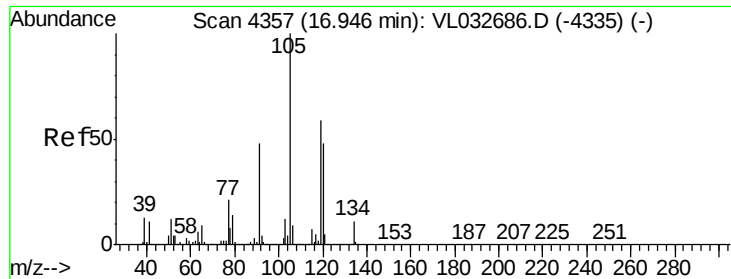
Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	16821		
120	26.7	35.4	53.2	





#74

1,2,4-Trimethylbenzene

Concen: 0.047 ppbv

RT: 16.95 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

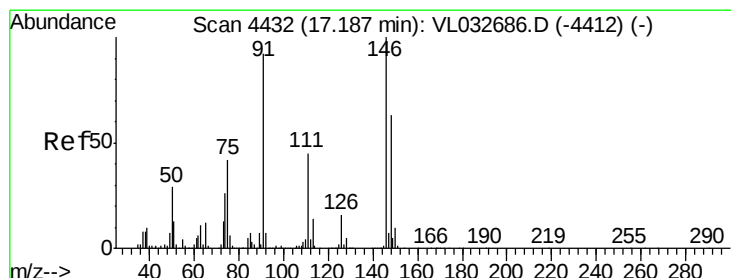
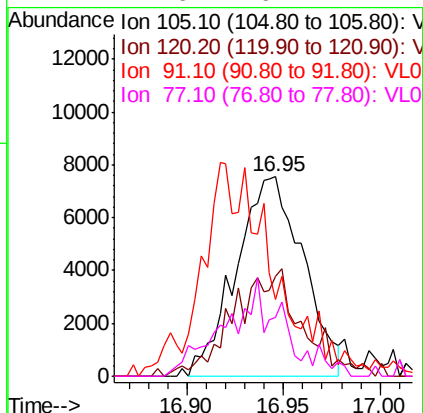
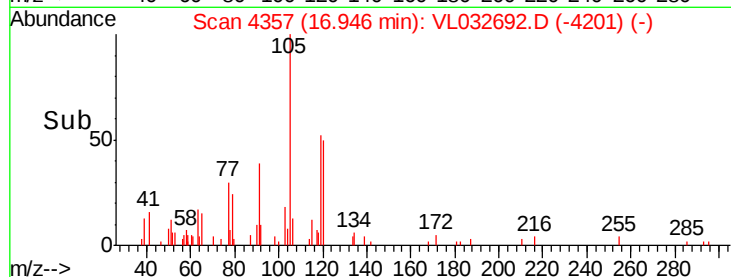
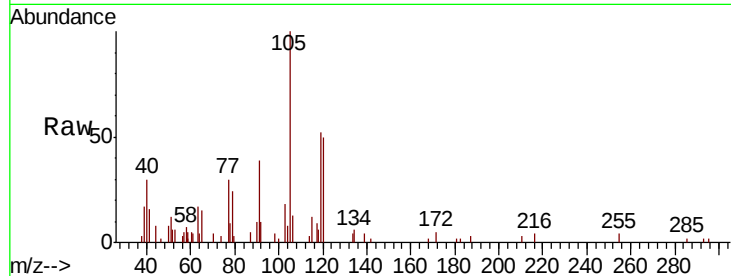
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.9	35.8	53.8
91	32.8	33.2	49.8
77	22.6	16.2	24.4

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#75

1,3-Dichlorobenzene

Concen: 0.117 ppbv m

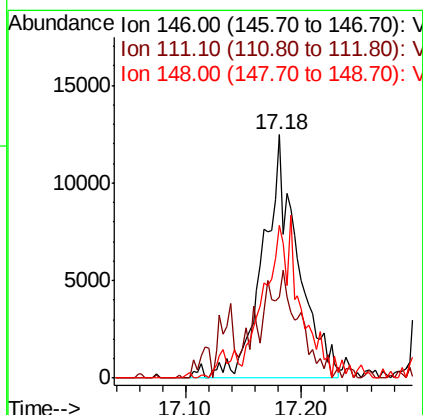
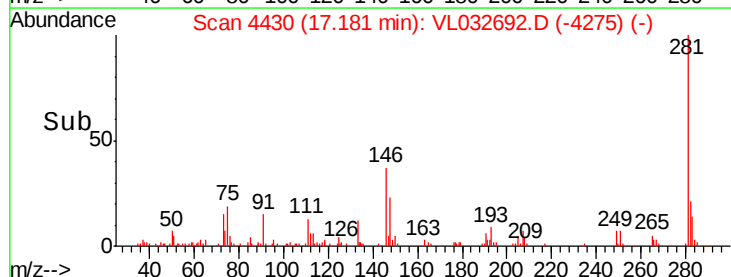
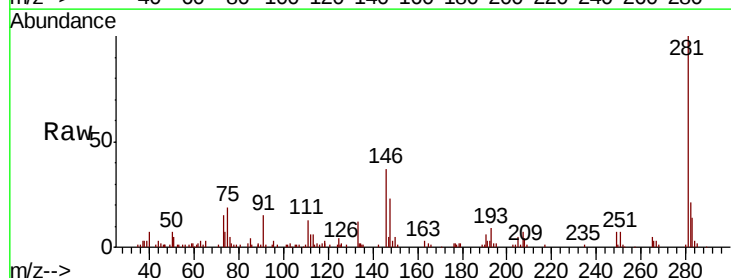
RT: 17.18 min Scan# 4430

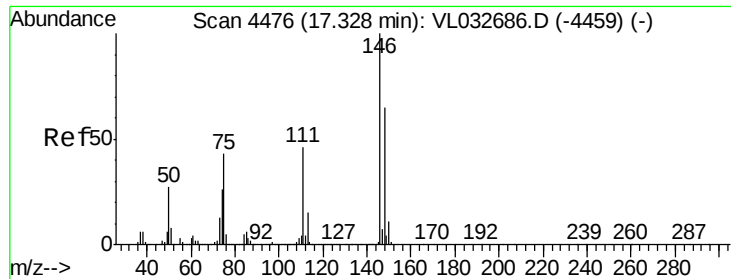
Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.4	73.2
148	0.0	31.9	95.9





#76

1,4-Dichlorobenzene

Concen: 0.089 ppbv m

RT: 17.32 min Scan# 4473

Delta R.T. -0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

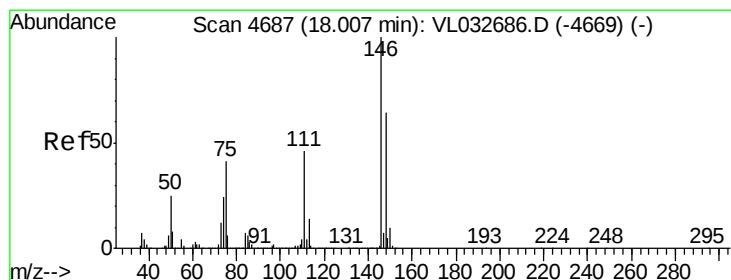
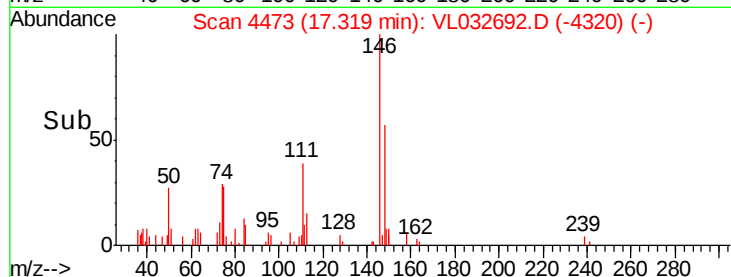
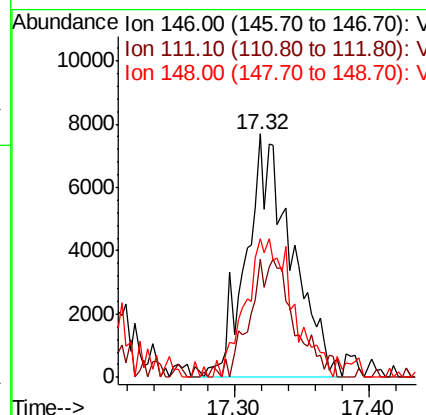
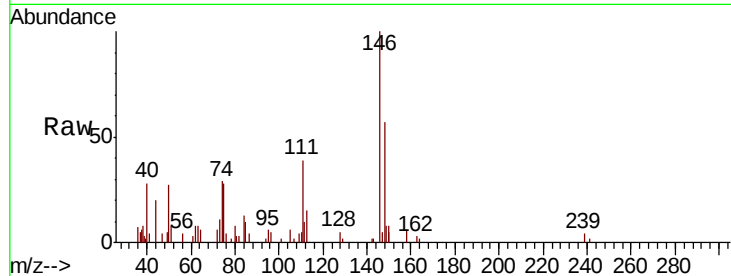
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.7	71.1#
148	60.4	32.1	96.3

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#77

1,2-Dichlorobenzene

Concen: 0.092 ppbv m

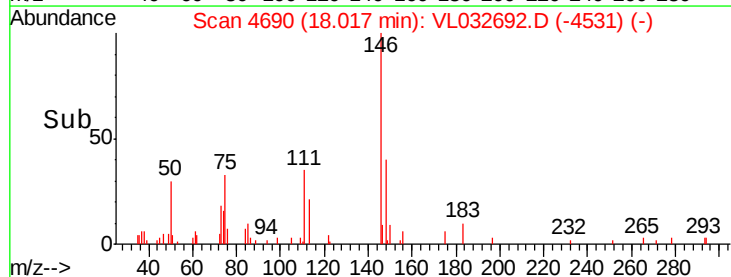
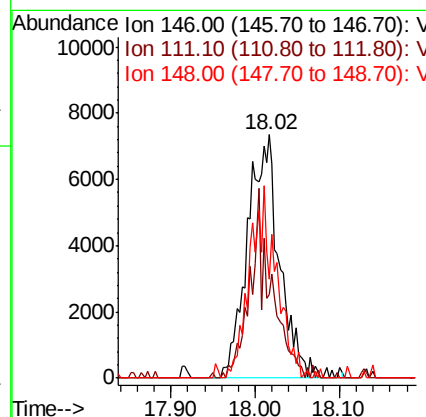
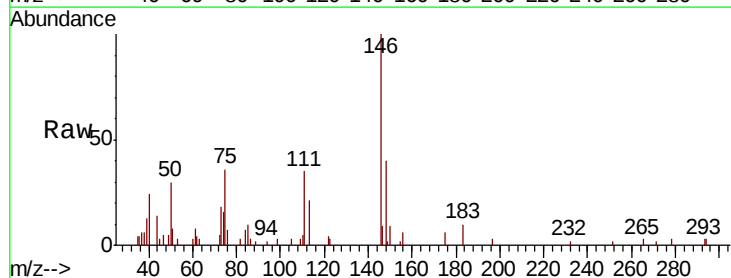
RT: 18.02 min Scan# 4690

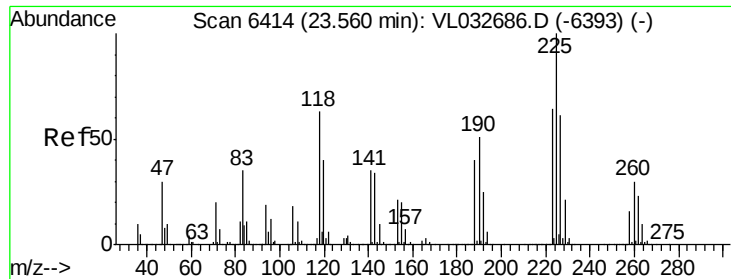
Delta R.T. 0.01 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	25.3	75.8#
148	0.0	31.9	95.9#





#78

Hexachloro-1,3-Butadiene

Concen: 0.175 ppbv m

RT: 23.55 min Scan# 6412

Delta R.T. 0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

Instrument :

MSVOA_L

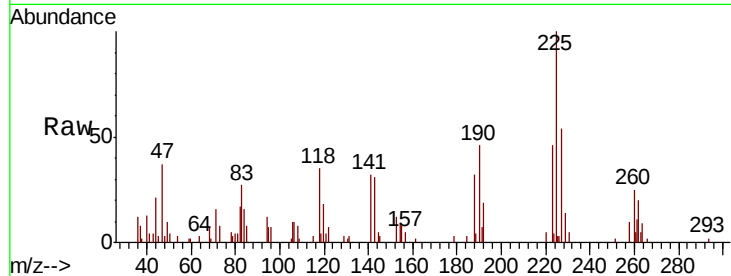
ClientSampleId :

LOD-MDL-AIR-01-QT4-2018

Tgt Ion:	225	Resp:	17419
Ion Ratio		Lower	Upper
225	100		
223	0.0	50.7	76.1#
227	59.5	50.7	76.1

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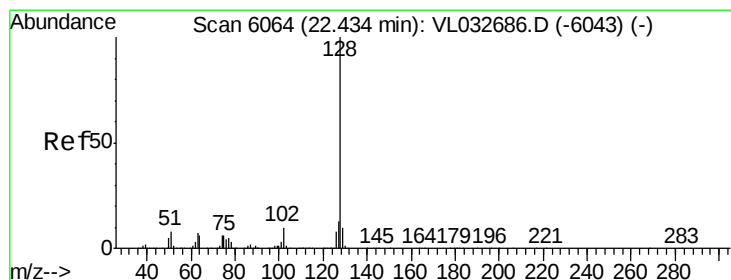
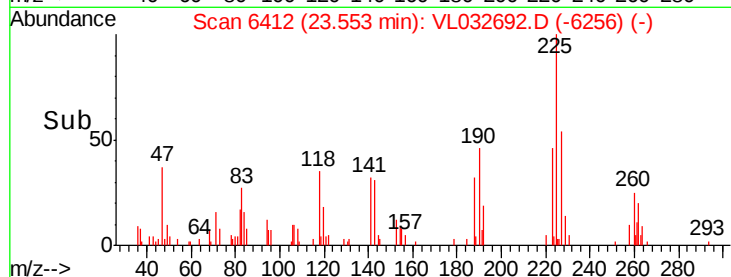
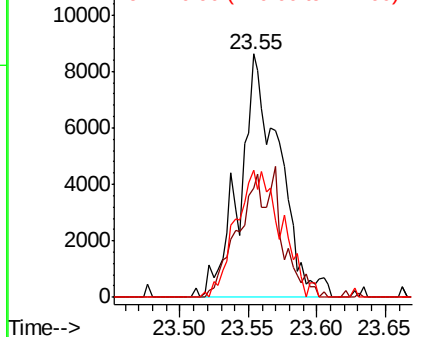


Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.037 ppbv m

RT: 22.43 min Scan# 6063

Delta R.T. -0.00 min

Lab File: VL032692.D

Acq: 24 Oct 2018 18:03

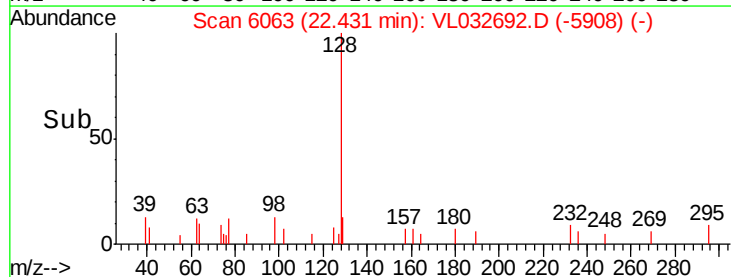
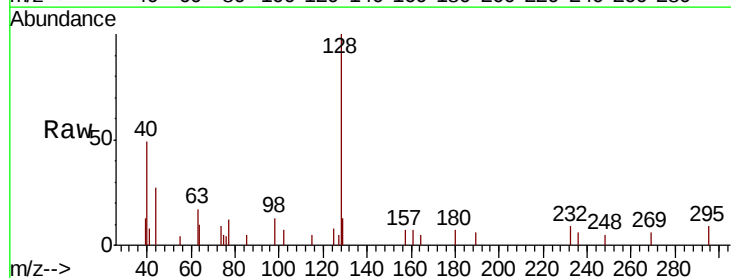
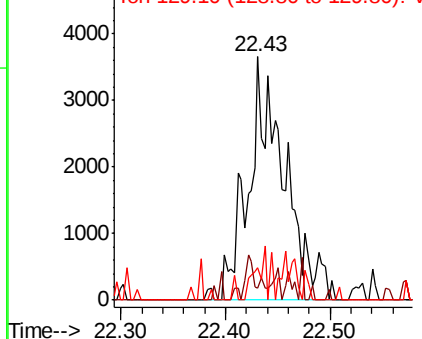
Tgt Ion:	128	Resp:	8848
Ion Ratio		Lower	Upper
128	100		
127	4.8	10.3	15.5#
129	13.3	8.6	13.0#

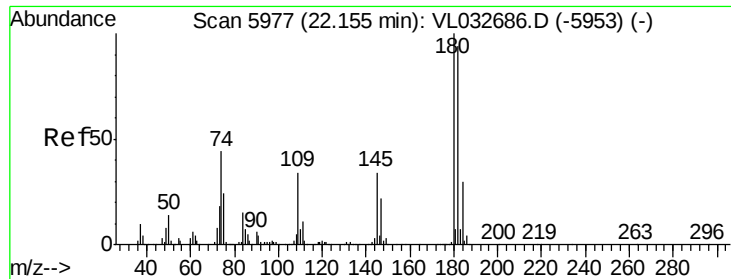
Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.048 ppbv m
 RT: 22.17 min Scan# 5982
 Delta R.T. 0.02 min
 Lab File: VL032692.D
 Acq: 24 Oct 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	5979		
182	0.0	76.5	114.7#	
184	0.0	24.7	37.1#	

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 3:40:01 PM

