

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032683.D
 Acq On : 19 Oct 2018 14:14
 Operator : SY/AP
 Sample : J5164-14 L00 1 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2018

Manual Integrations
 APPROVED

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 10/24/2018 12:06:56 PM

Quant Time: Oct 20 00:00:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1559693	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3722684	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3627233	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2748862	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	163071	1.026	ppbv	94
3) Chlorodifluoromethane	3.02	51	133001	1.090	ppbv	95
4) Chloromethane	3.18	50	71337	1.047	ppbv	98
5) Vinyl Chloride	3.30	62	70584	0.956	ppbv	99
6) Bromomethane	3.53	94	45588	0.990	ppbv	90
7) Chloroethane	3.62	64	26772	0.985	ppbv	90
8) Dichlorotetrafluoroethane	3.23	85	190906	1.140	ppbv	96
9) Propene	3.05	41	48547	0.967	ppbv	98
10) Heptane	8.26	43	181422	0.938	ppbv	97
11) Trichlorofluoromethane	4.01	101	195431	0.942	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.56	101	188899	1.094	ppbv	95
13) Ethanol	3.67	45	20364	1.419	ppbv	99
14) Bromoethene	3.80	108	55792	0.956	ppbv	97
15) Acetone	3.92	43	139366	0.968	ppbv	98
16) 1,3-Butadiene	3.38	39	59278	1.119	ppbv #	79
17) tert-Butyl alcohol	4.39	59	51545m	1.217	ppbv	
18) 1,1-Dichloroethene	4.36	96	86107	1.135	ppbv	90
19) Isopropyl Alcohol	4.05	45	93794	0.914	ppbv #	95
20) Methylene Chloride	4.42	84	81792	1.119	ppbv	92
21) Allyl Chloride	4.49	41	122408	1.035	ppbv	94
22) trans-1,2-Dichloroethene	4.98	96	78375	1.008	ppbv	89
23) Vinyl Acetate	5.17	43	230369	0.903	ppbv	97
24) 1,1-Dichloroethane	5.10	63	178548	0.891	ppbv	99
25) Ethyl Acetate	5.79	43	343892	1.037	ppbv	99
26) Hexane	5.79	57	163556	1.043	ppbv	97
27) Carbon Disulfide	4.63	76	184490	0.970	ppbv #	91
28) Methyl tert-Butyl Ether	5.14	73	195327m	0.866	ppbv	
29) Chloroform	5.86	83	268198	1.070	ppbv	98
30) Cyclohexane	7.26	84	112671	0.907	ppbv	96
31) cis-1,2-Dichloroethene	5.65	61	133149	0.915	ppbv	96
32) 1,1,1-Trichloroethane	6.63	97	254062	0.998	ppbv	99
34) 2-Butanone	5.35	43	203626	1.020	ppbv	100
35) Carbon Tetrachloride	7.15	117	275854	1.044	ppbv	96
36) Benzene	7.02	78	290756	0.962	ppbv	98
37) 1,2-Dichloroethane	6.43	62	194283	1.048	ppbv	99
38) Trichloroethene	7.98	130	115902	1.036	ppbv	95
39) 1,2-Dichloropropane	7.75	63	113132	0.969	ppbv	99
40) 1,4-Dioxane	8.00	88	43450m	1.090	ppbv	
41) Tetrahydrofuran	6.18	42	103562	0.931	ppbv	97
42) Bromodichloromethane	7.93	83	264480	1.018	ppbv	99
43) Methyl Methacrylate	8.16	69	98521	0.889	ppbv	90

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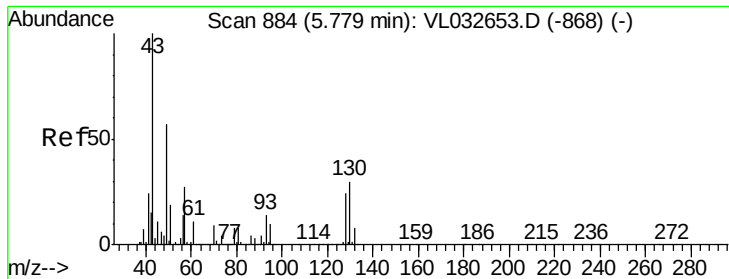
Manual Integrations
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Quant Time: Oct 20 00:00:17 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	547643	1.061	ppbv	97
45) t-1,3-Dichloropropene	9.43	75	122167	0.824	ppbv	94
46) cis-1,3-Dichloropropene	8.85	75	135272	0.798	ppbv	93
47) 1,1,2-Trichloroethane	9.63	97	141972	1.029	ppbv	97
48) Dibromochloromethane	10.47	129	211729	0.921	ppbv	98
49) Bromoform	13.22	173	192153	1.064	ppbv	97
50) 4-Methyl-2-Pentanone	8.90	43	288170	0.975	ppbv	97
51) 2-Hexanone	10.31	43	175930	0.801	ppbv #	94
52) Tetrachloroethene	11.39	164	100347	0.952	ppbv	97
53) Toluene	9.97	91	322373m	0.930	ppbv	
54) 1,2-Dibromoethane	10.78	107	186616	0.995	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.30	131	179306	1.130	ppbv #	1
57) Chlorobenzene	12.32	112	287935m	1.079	ppbv	
58) Ethyl Benzene	12.88	91	411963	0.978	ppbv	100
59) m/p-Xylene	13.16	91	801320m	2.135	ppbv	
60) o-Xylene	13.87	91	381095	1.053	ppbv	99
61) Styrene	13.70	104	222463	0.917	ppbv	99
62) Isopropylbenzene	14.84	105	538953	1.052	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	308764	1.089	ppbv	98
64) n-propylbenzene	15.74	120	133157m	1.046	ppbv	
65) tert-Butylbenzene	16.92	119	465150	1.066	ppbv	98
66) Benzyl Chloride	17.17	91	211929m	0.941	ppbv	
67) sec-Butylbenzene	17.48	105	675676	1.089	ppbv	100
69) p-Isopropyltoluene	17.84	119	508824	1.035	ppbv	99
70) n-Butylbenzene	18.73	91	530560	1.048	ppbv	98
71) 2-Chlorotoluene	15.64	91	365177	1.003	ppbv	100
72) 4-Ethyltoluene	16.02	105	391894	1.017	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.17	105	395270	1.053	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	439766	1.097	ppbv #	94
75) 1,3-Dichlorobenzene	17.18	146	259418	1.125	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	218668	1.028	ppbv	97
77) 1,2-Dichlorobenzene	18.00	146	232532m	1.064	ppbv	
78) Hexachloro-1,3-Butadiene	23.56	225	109416	1.060	ppbv	99
79) Naphthalene	22.44	128	160673m	0.645	ppbv	
80) Naphthalene, 2-methyl-	25.14	142	8161	0.135	ppbv	98
81) 1,2,4-Trichlorobenzene	22.16	180	97261m	0.753	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

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ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 49 Resp: 1559693

Ion Ratio Lower Upper

49 100

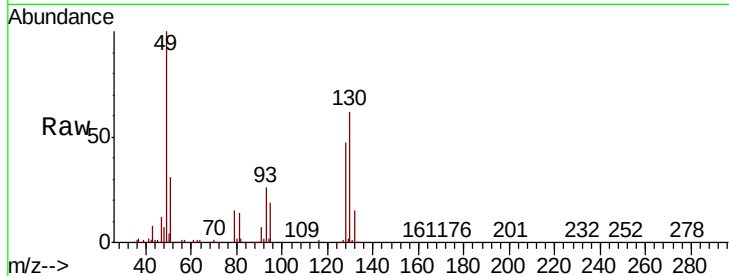
128 48.8 22.3 66.8

130 62.3 28.4 85.3

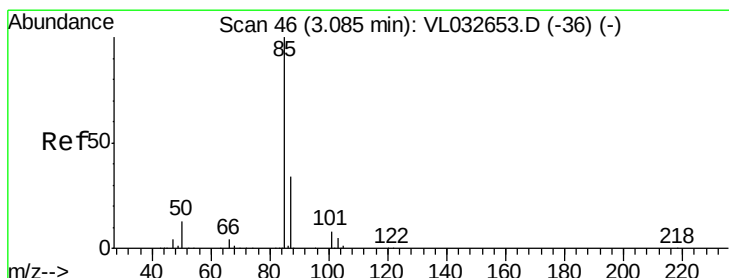
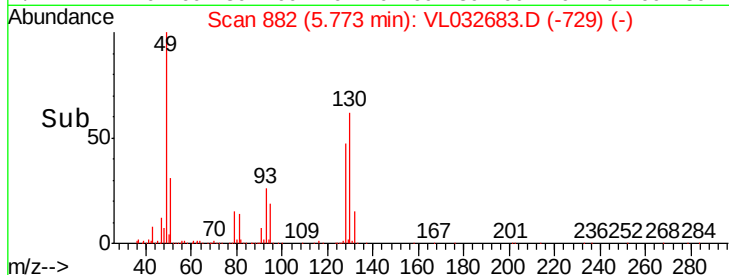
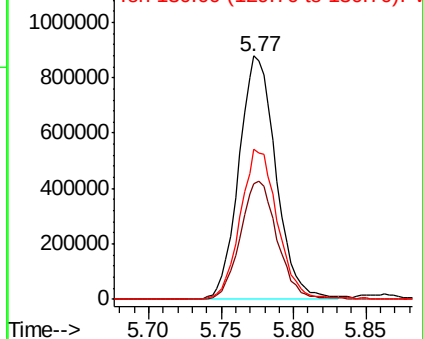
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.026 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032683.D

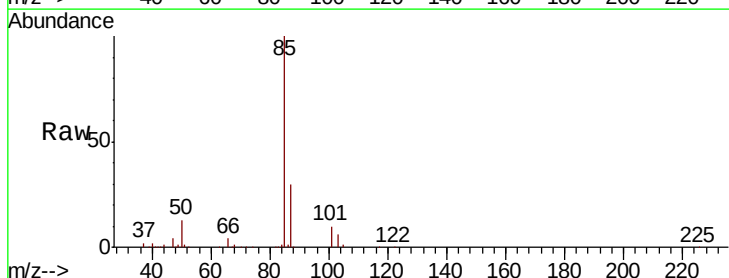
Acq: 19 Oct 2018 14:14

Tgt Ion: 85 Resp: 163071

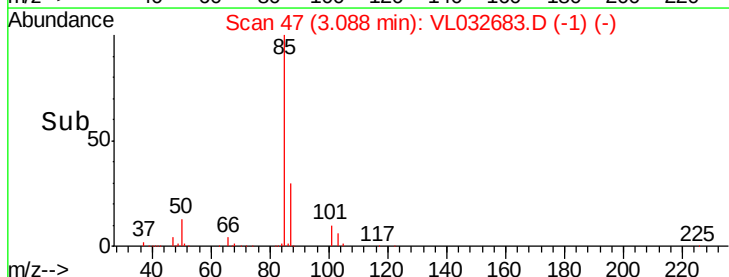
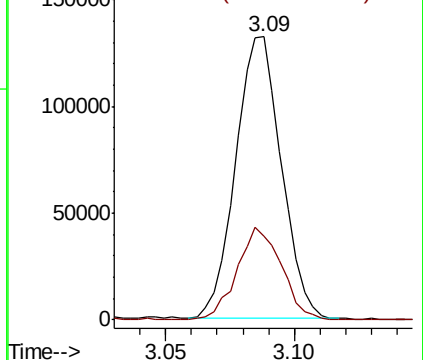
Ion Ratio Lower Upper

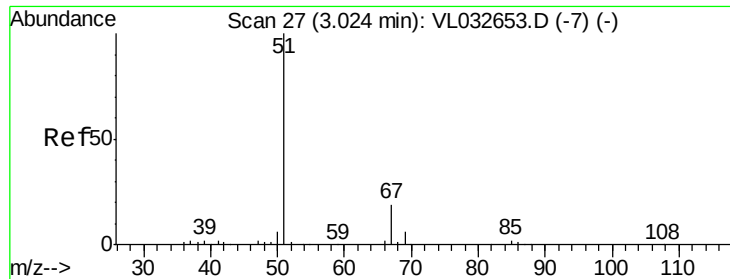
85 100

87 29.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





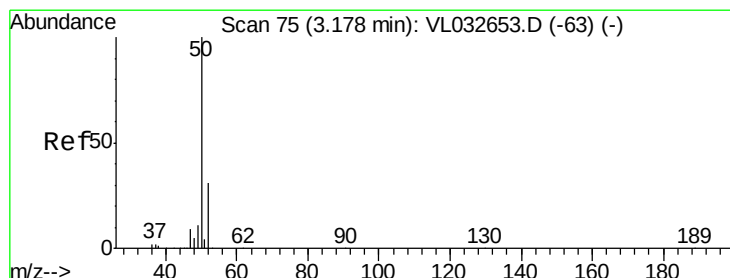
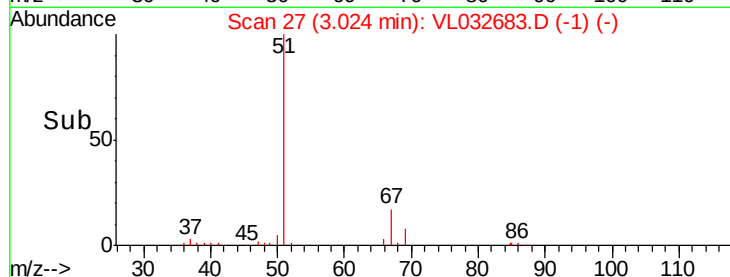
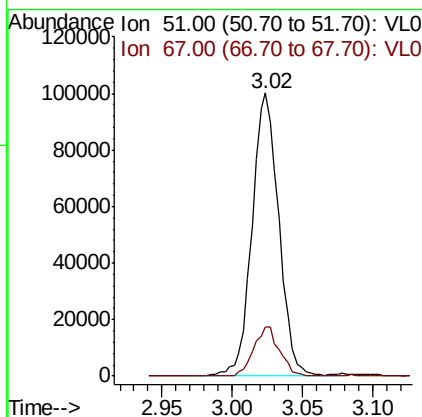
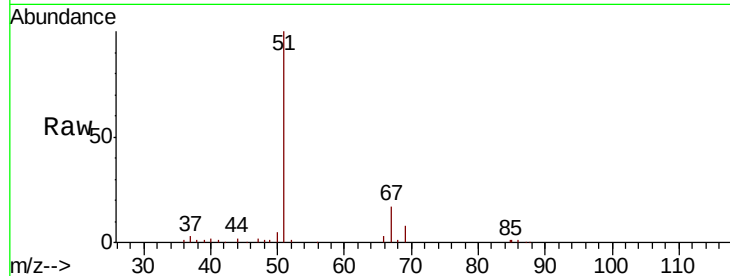
#3
Chlorodifluoromethane
Concen: 1.090 ppbv
RT: 3.02 min Scan# 27
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.8	15.2	22.8

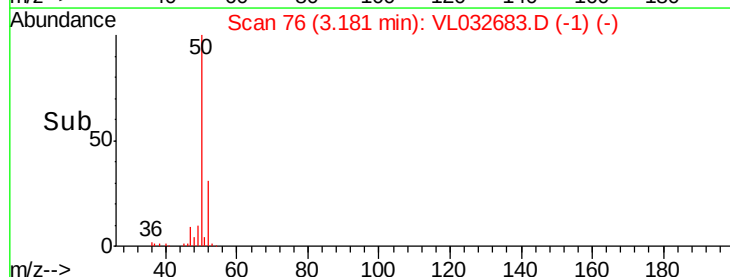
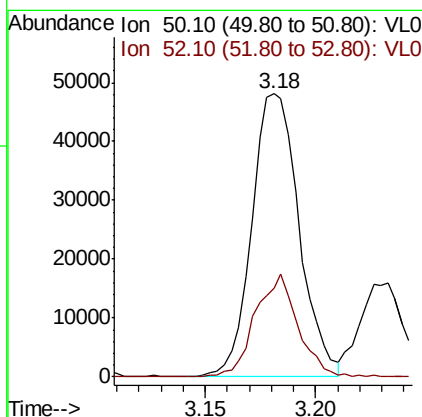
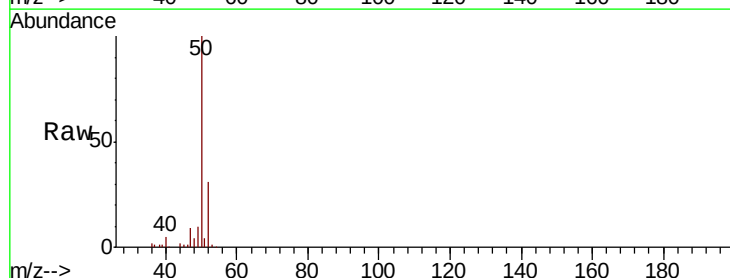
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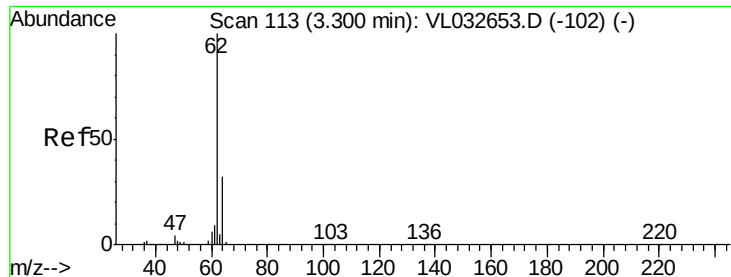
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#4
Chloromethane
Concen: 1.047 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.3	25.9	38.9





#5

Vinyl Chloride

Concen: 0.956 ppbv

RT: 3.30 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 62 Resp: 70584

Ion Ratio Lower Upper

62 100

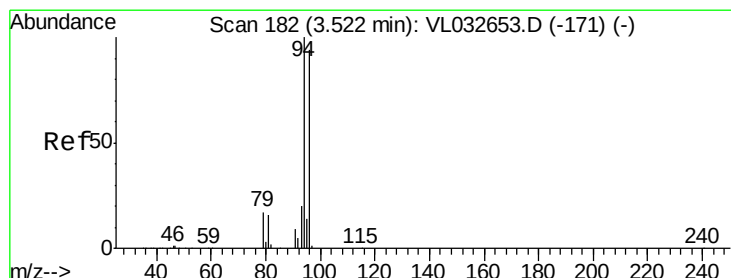
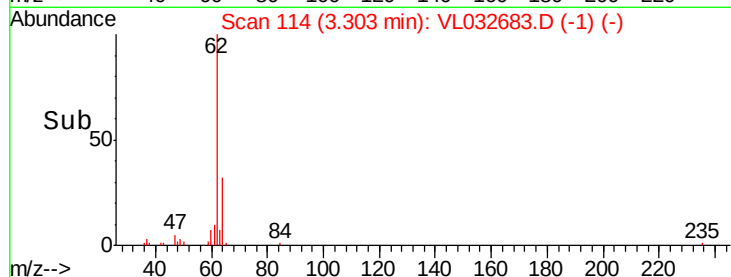
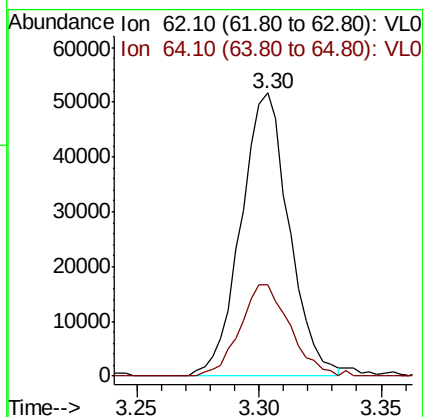
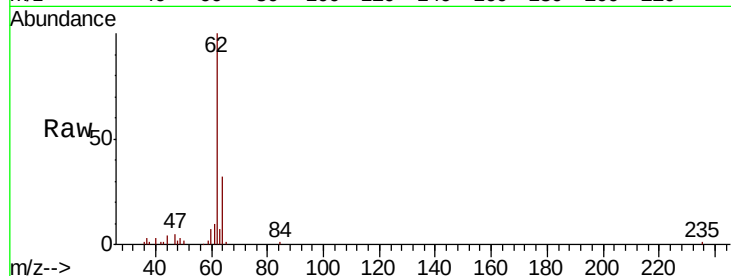
64 32.4 25.5 38.3

Manual Integrations

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#6

Bromomethane

Concen: 0.990 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032683.D

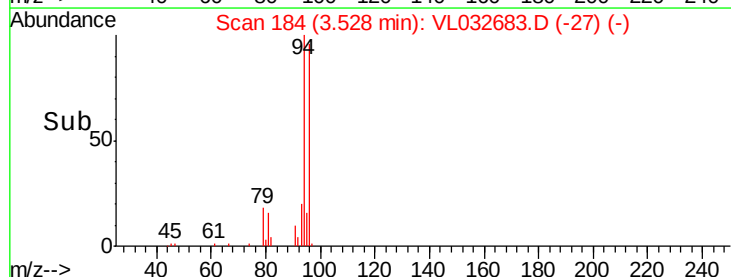
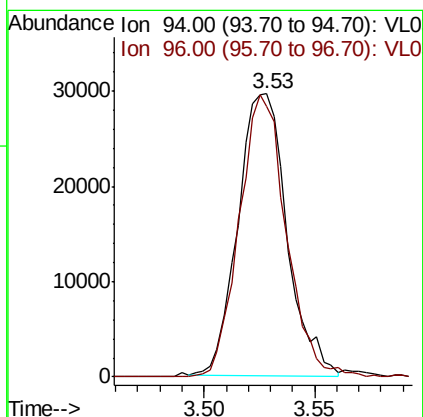
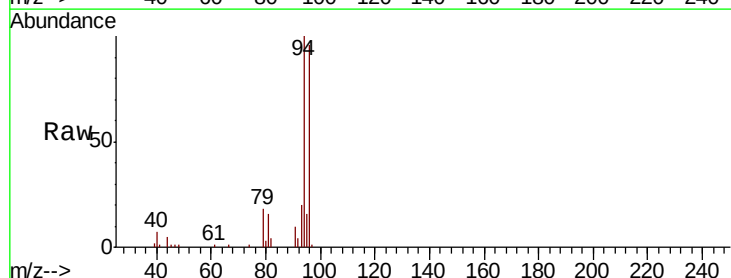
Acq: 19 Oct 2018 14:14

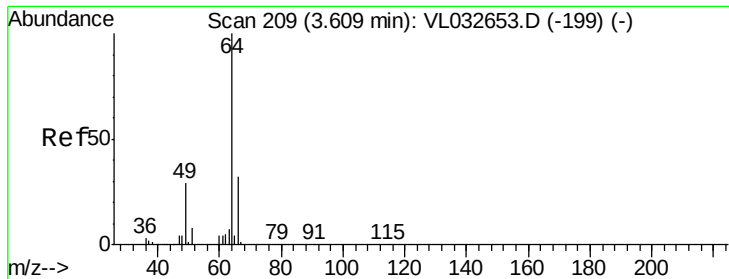
Tgt Ion: 94 Resp: 45588

Ion Ratio Lower Upper

94 100

96 96.4 69.8 104.8





#7

Chloroethane

Concen: 0.985 ppbv

RT: 3.62 min Scan# 211

Delta R.T. 0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 64 Resp: 26772

Ion Ratio Lower Upper

64 100

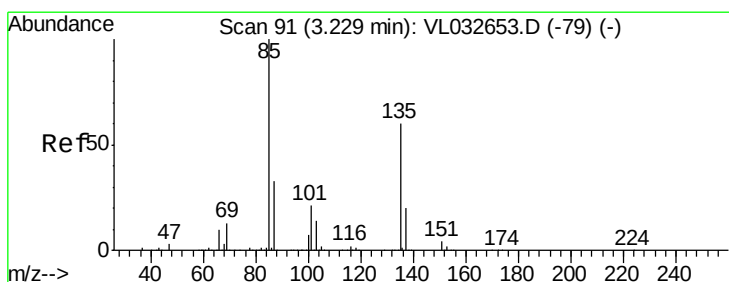
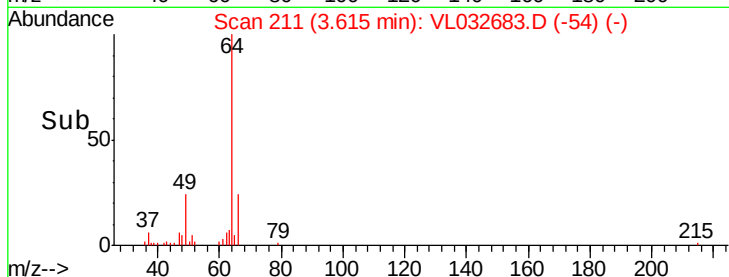
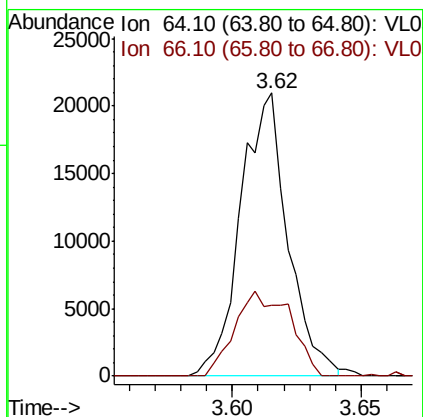
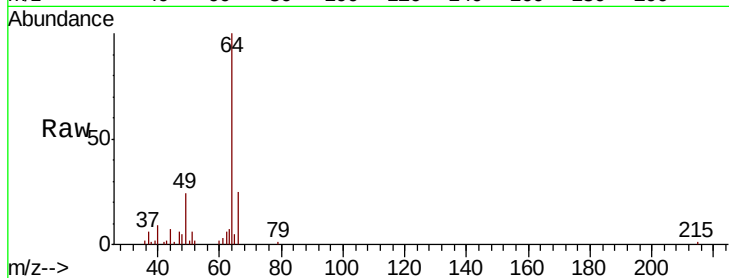
66 25.1 24.4 36.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.140 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032683.D

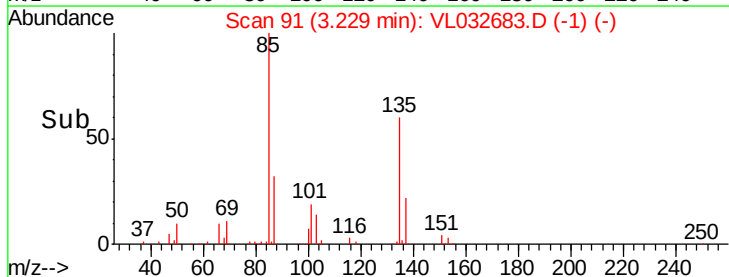
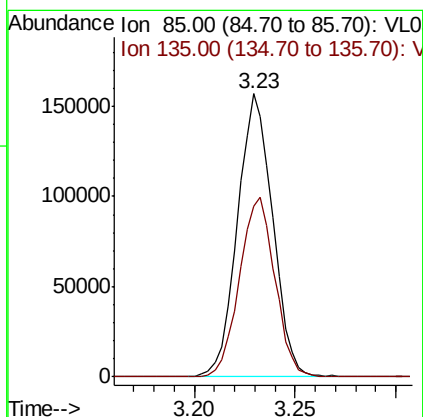
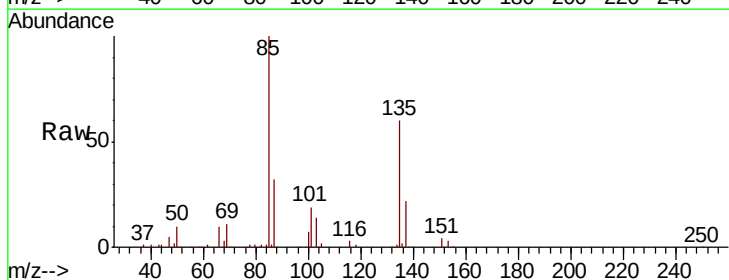
Acq: 19 Oct 2018 14:14

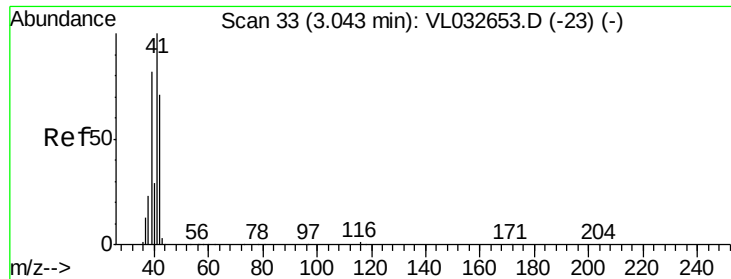
Tgt Ion: 85 Resp: 190906

Ion Ratio Lower Upper

85 100

135 64.3 49.0 73.4





#9

Propene

Concen: 0.967 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 41 Resp: 48547

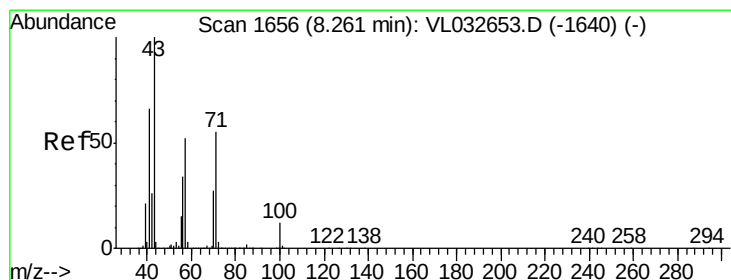
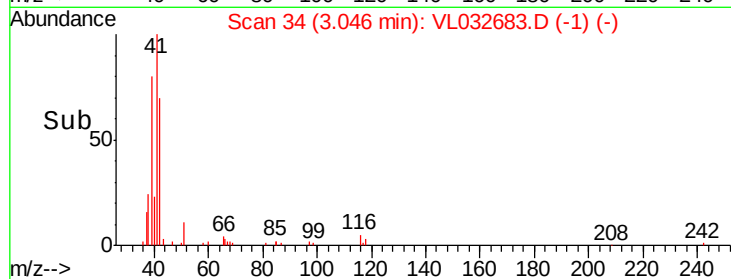
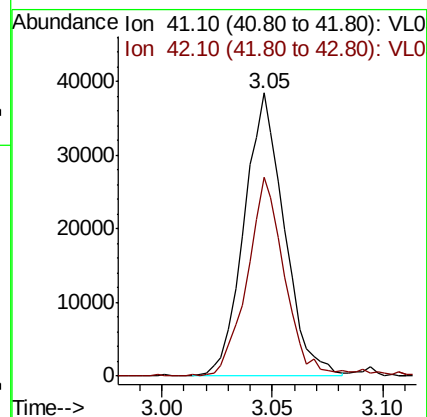
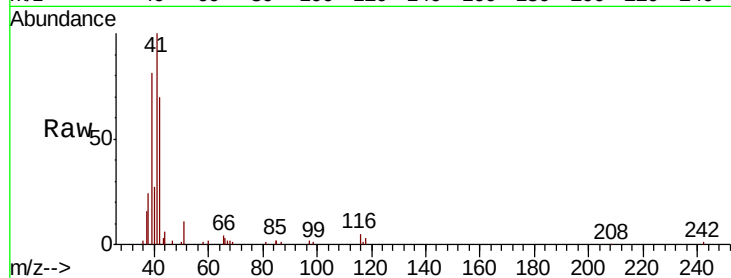
Ion Ratio Lower Upper

41 100

42 67.3 55.4 83.0

Manual Integrations
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#10

Heptane

Concen: 0.938 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL032683.D

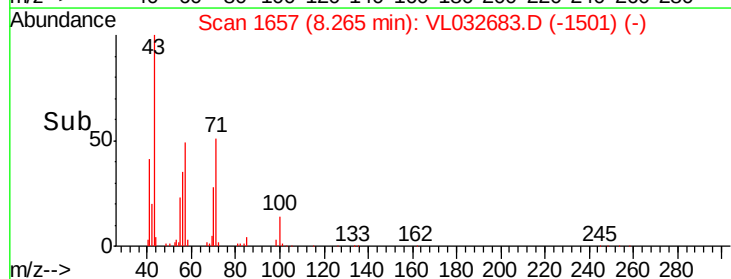
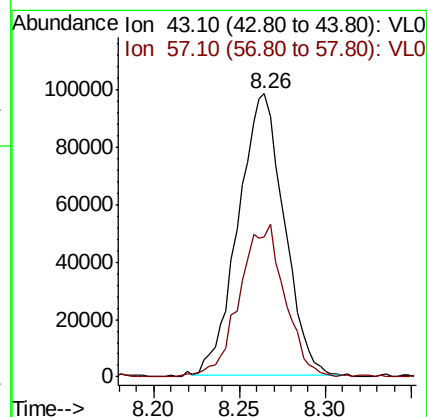
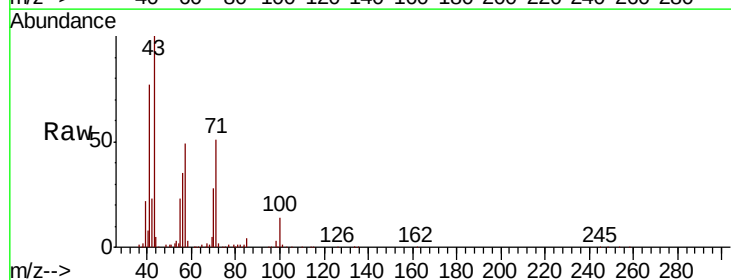
Acq: 19 Oct 2018 14:14

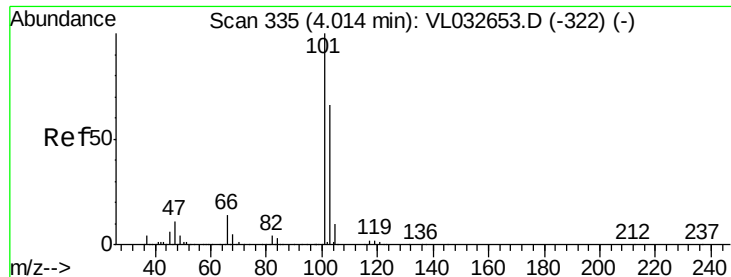
Tgt Ion: 43 Resp: 181422

Ion Ratio Lower Upper

43 100

57 53.9 41.5 62.3





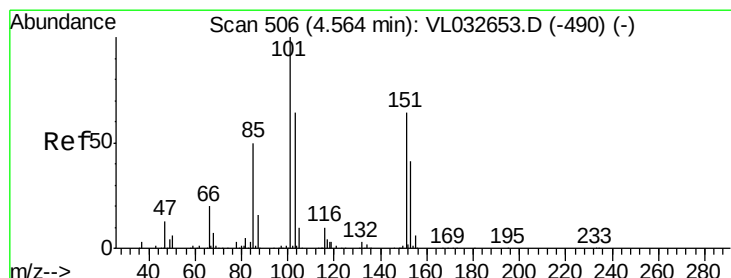
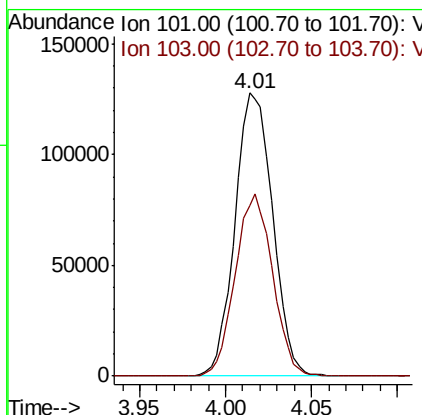
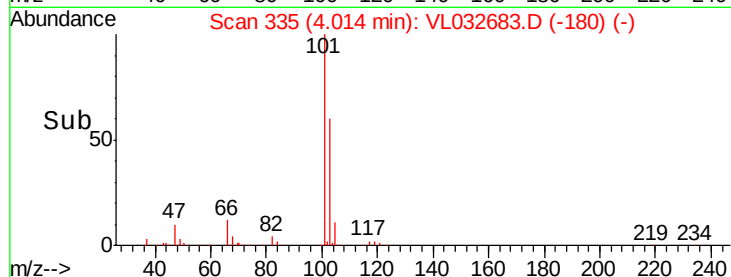
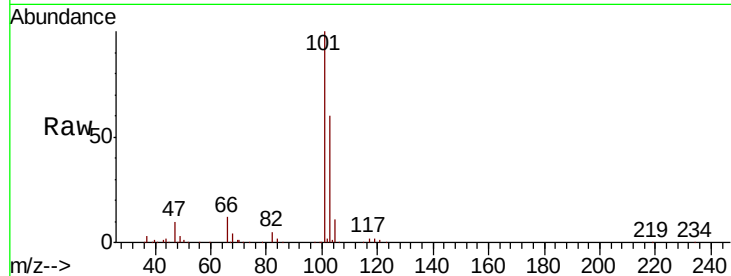
#11
 Trichlorofluoromethane
 Concen: 0.942 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	195431		
103	103	60.5	51.4	77.2	

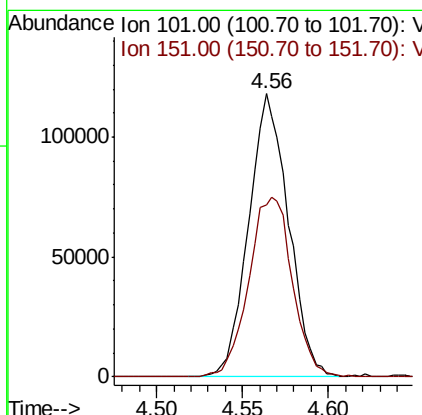
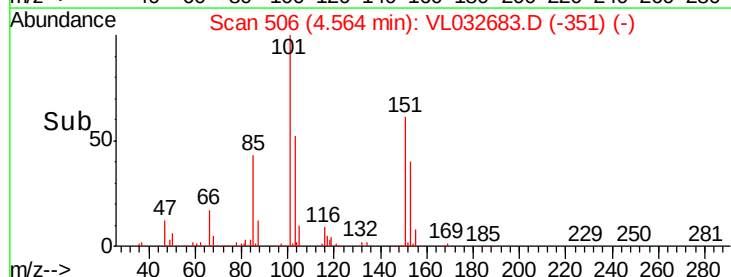
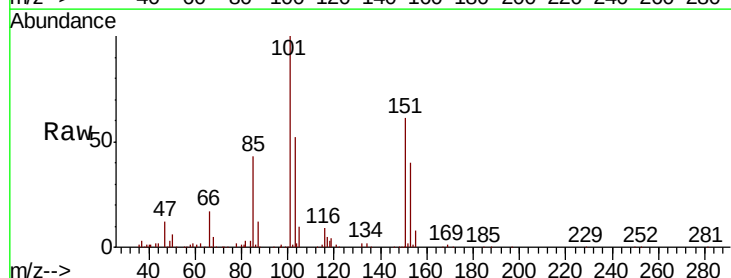
Manual Integrations
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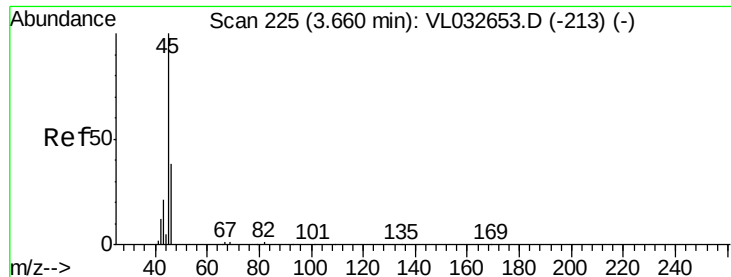
MMDadoda
 10/24/2018 12:06:56 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.094 ppbv
 RT: 4.56 min Scan# 506
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	188899		
151	151	69.5	52.3	78.5	





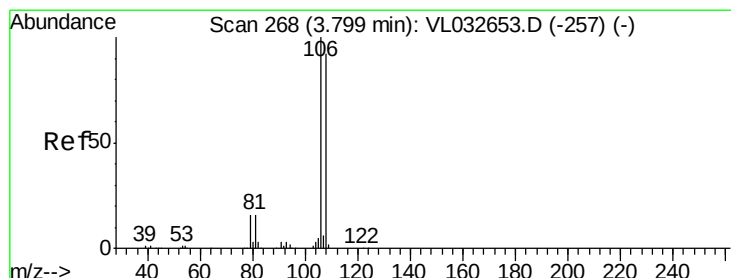
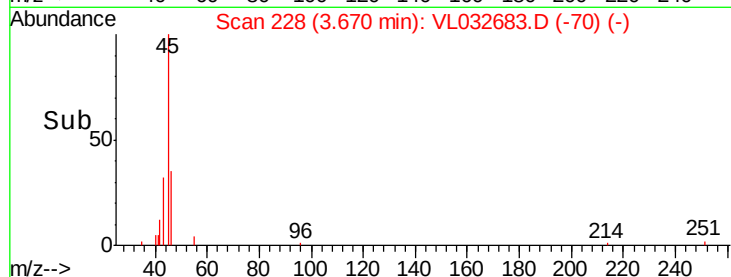
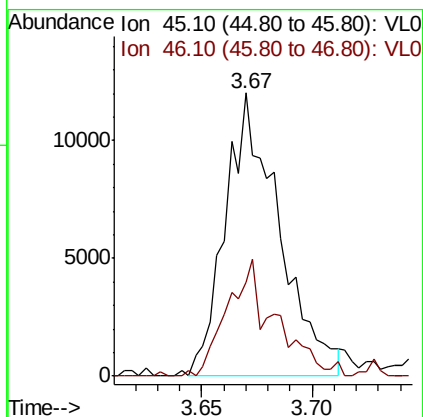
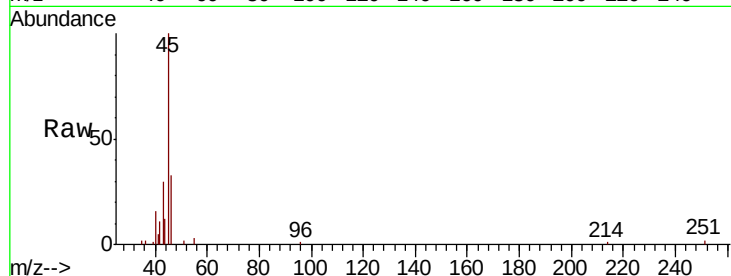
#13
Ethanol
Concen: 1.419 ppbv
RT: 3.67 min Scan# 228
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion: 45 Resp: 20364
Ion Ratio Lower Upper
45 100
46 38.0 15.4 61.8

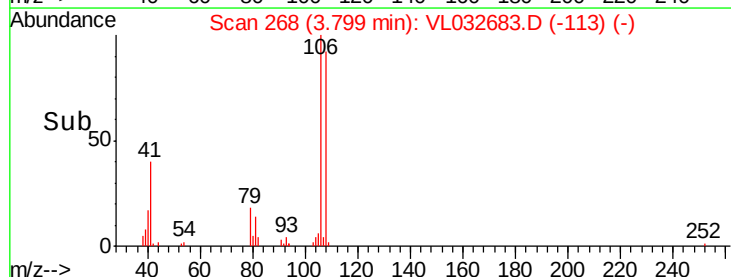
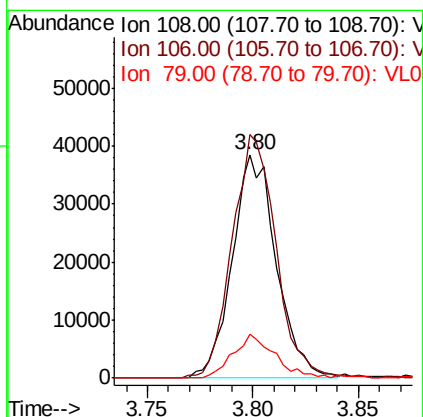
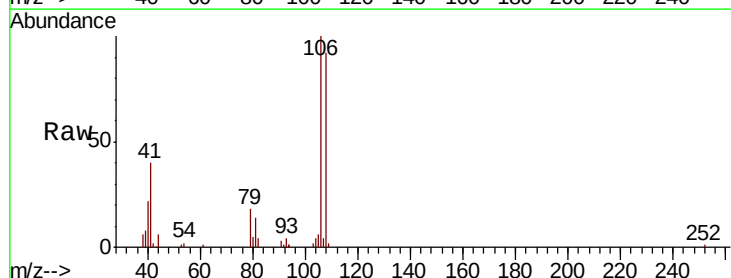
Manual Integrations
APPROVED

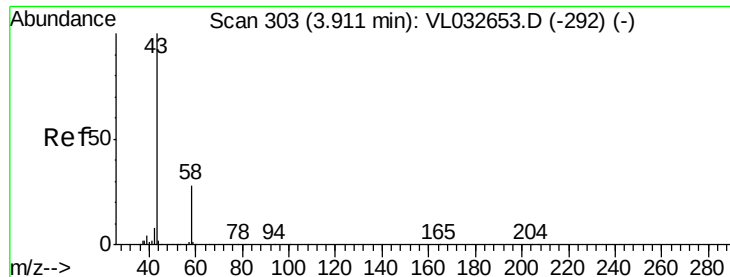
MMDadoda
10/24/2018 12:06:56 PM



#14
Bromoethene
Concen: 0.956 ppbv
RT: 3.80 min Scan# 268
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 108 Resp: 55792
Ion Ratio Lower Upper
108 100
106 109.1 85.0 127.4
79 19.0 13.7 20.5





#15

Acetone

Concen: 0.968 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 43 Resp: 139366

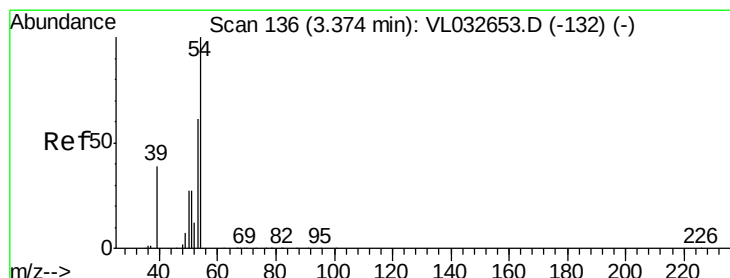
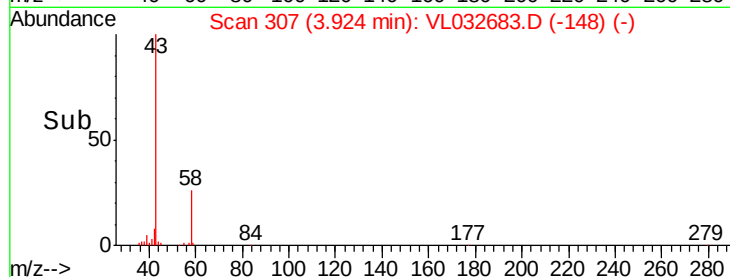
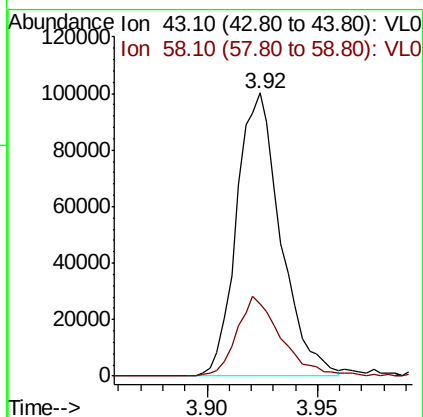
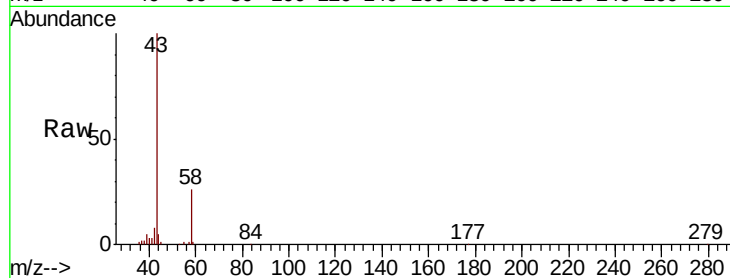
Ion Ratio Lower Upper

43 100

58 28.7 22.1 33.1

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#16

1,3-Butadiene

Concen: 1.119 ppbv

RT: 3.38 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL032683.D

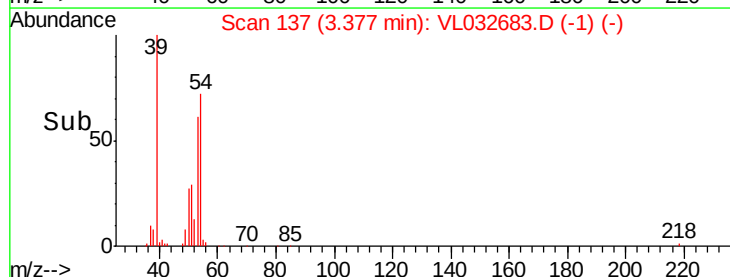
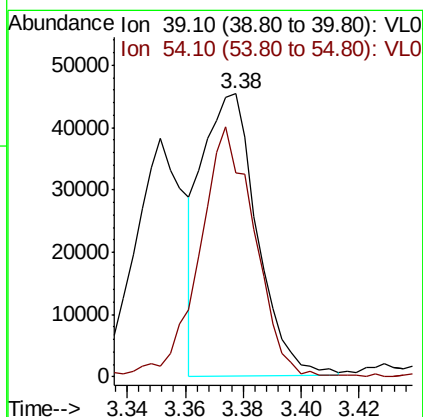
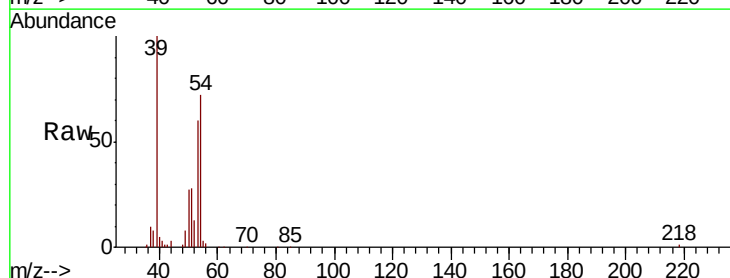
Acq: 19 Oct 2018 14:14

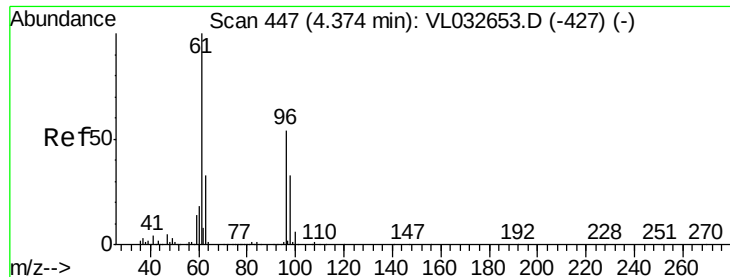
Tgt Ion: 39 Resp: 59278

Ion Ratio Lower Upper

39 100

54 90.1 90.4 135.6#





#17

tert-Butyl alcohol

Concen: 1.217 ppbv

RT: 4.39 min Scan# 452

Delta R.T. 0.02 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 59 Resp: 51545

Ion Ratio Lower Upper

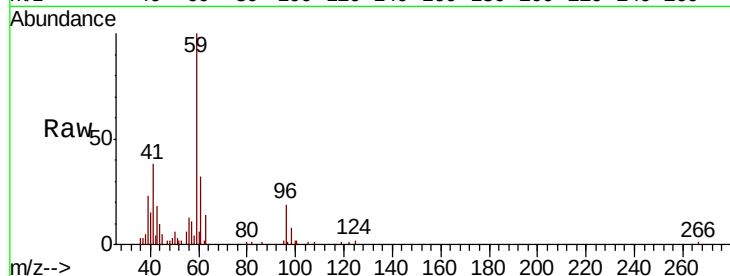
59 100

57 0.0 0.0 0.0

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

25000

20000

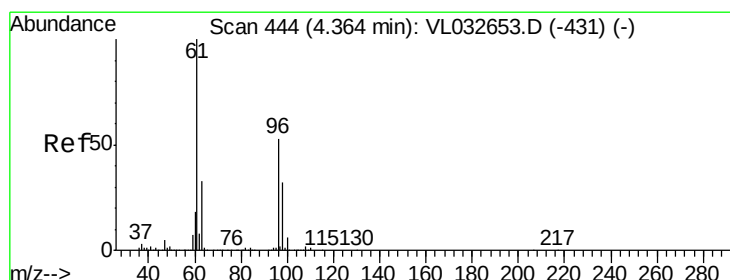
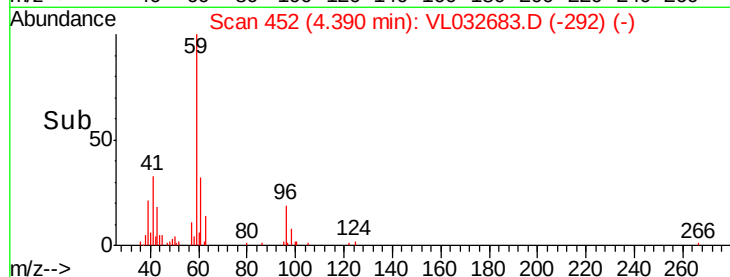
15000

10000

5000

0

Time--> 4.30 4.35 4.40 4.45



#18

1,1-Dichloroethene

Concen: 1.135 ppbv

RT: 4.36 min Scan# 444

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

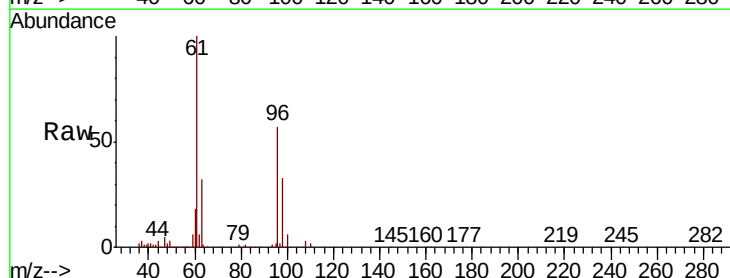
Tgt Ion: 96 Resp: 86107

Ion Ratio Lower Upper

96 100

61 174.4 151.6 227.4

98 57.0 50.6 75.8



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

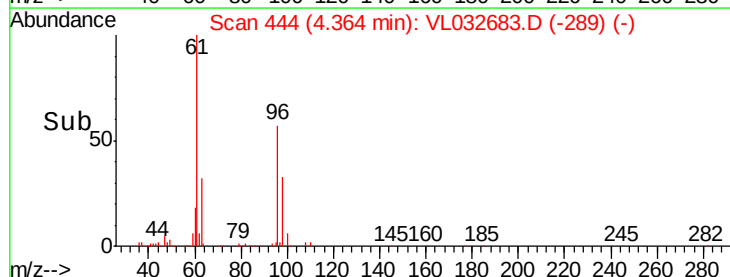
Ion 98.00 (97.70 to 98.70): VL0

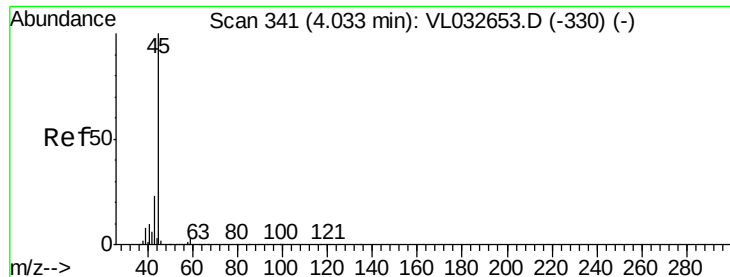
100000

50000

0

Time--> 4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 0.914 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 45 Resp: 93794

Ion Ratio Lower Upper

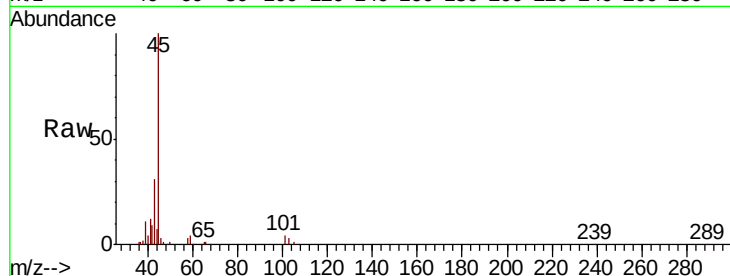
45 100

58 4.2 2.0 3.0#

Manual Integrations
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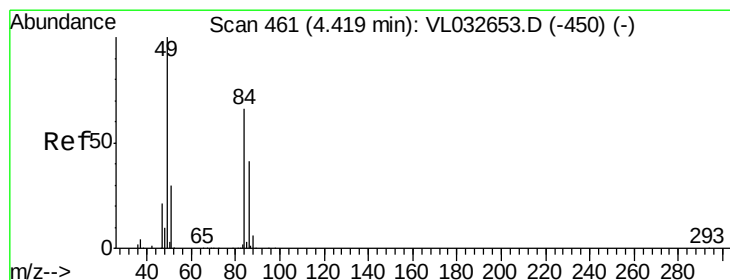
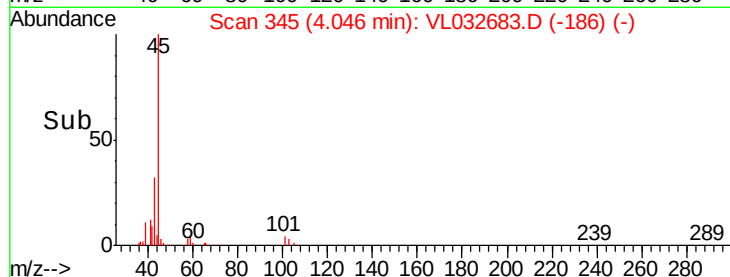
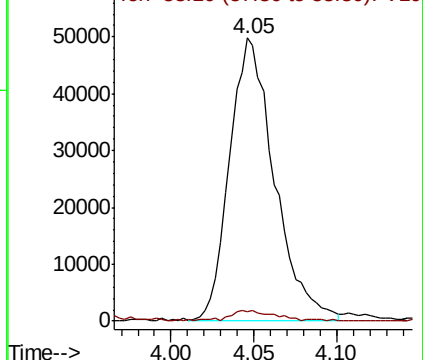
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.119 ppbv

RT: 4.42 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion: 84 Resp: 81792

Ion Ratio Lower Upper

84 100

49 152.0 113.5 170.3

51 48.9 34.8 52.2

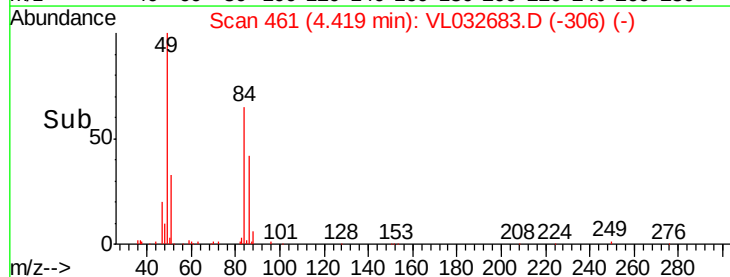
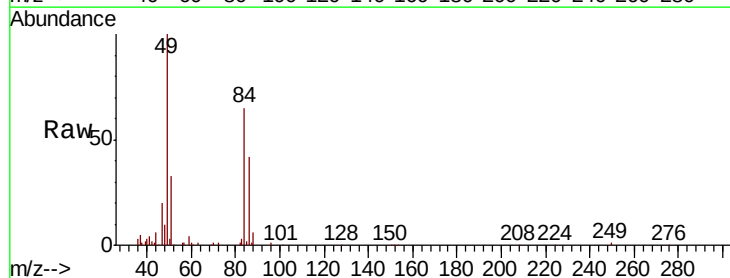
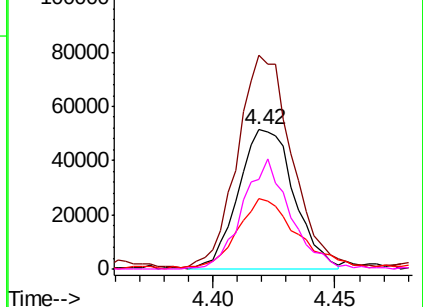
86 64.0 47.9 71.9

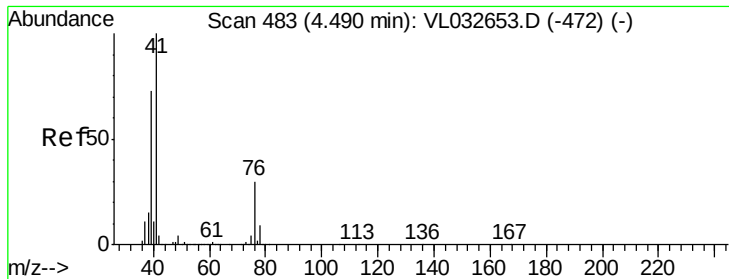
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





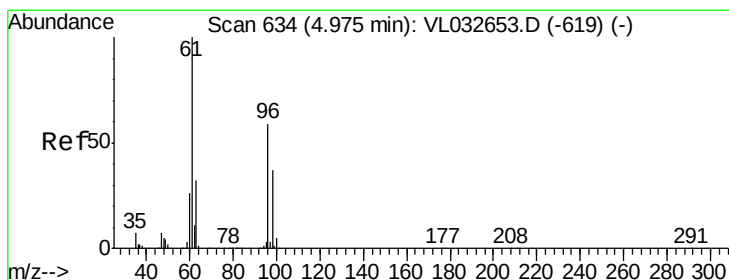
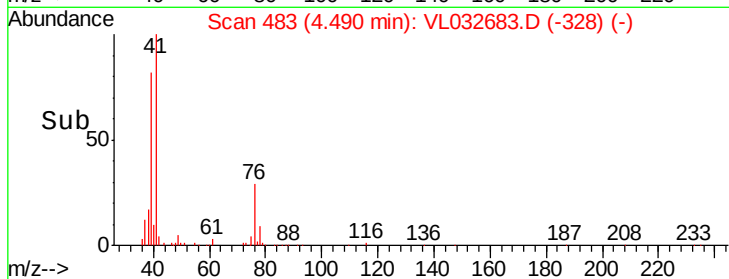
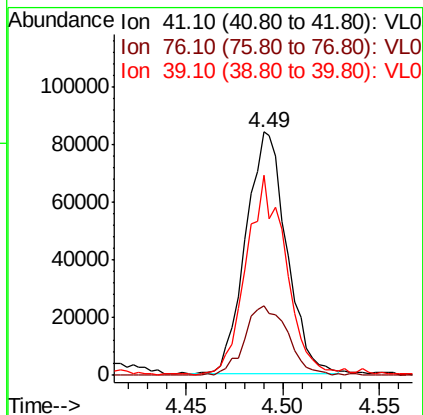
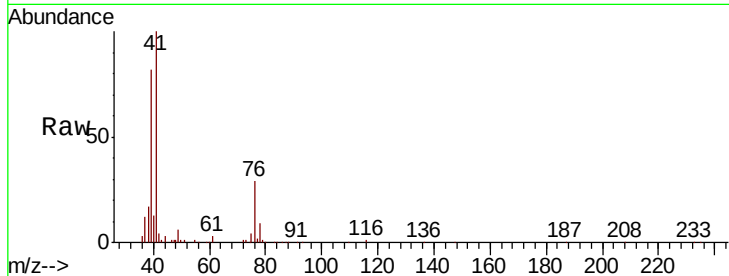
#21
Allvl Chloride
Concen: 1.035 ppbv
RT: 4.49 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.3	36.5
39	81.8	60.3	90.5

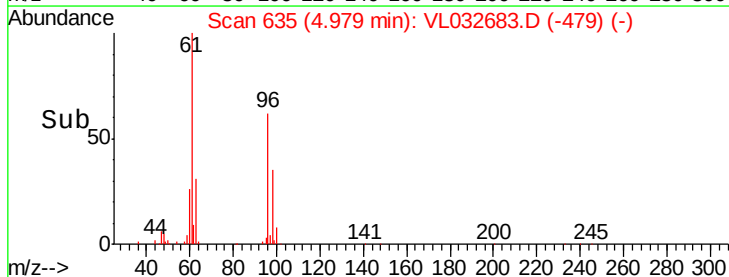
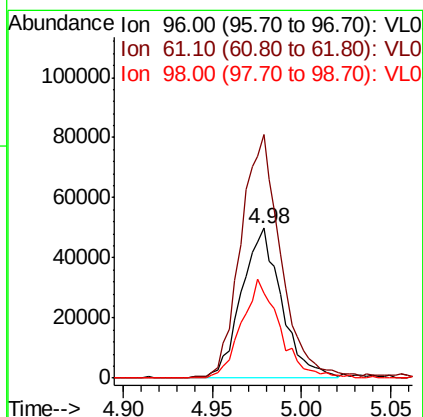
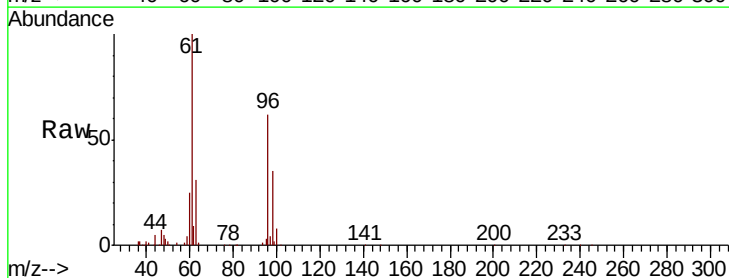
Manual Integrations
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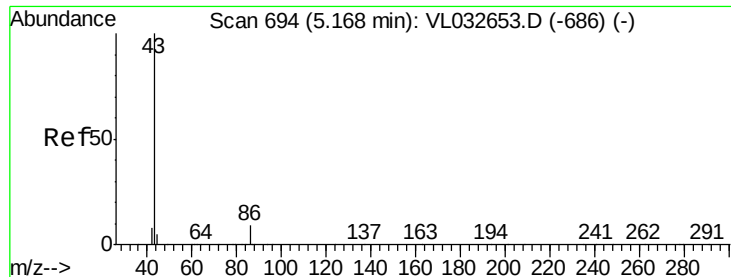
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 1.008 ppbv
RT: 4.98 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.5	140.4	210.6
98	56.5	55.0	82.6





#23

Vinyl Acetate

Concen: 0.903 ppbv

RT: 5.17 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

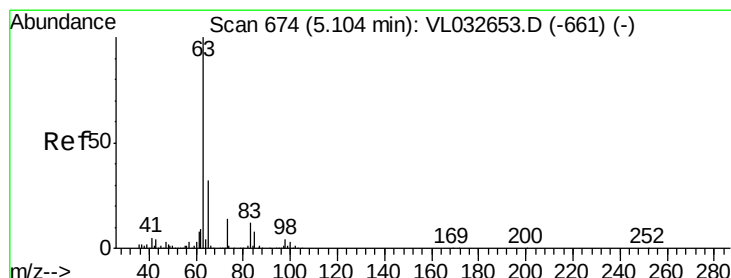
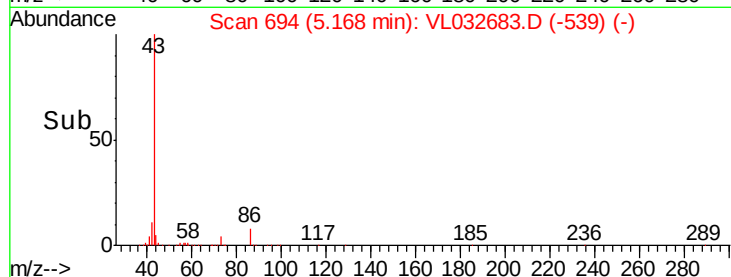
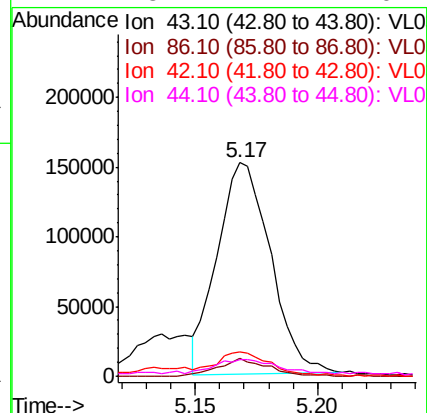
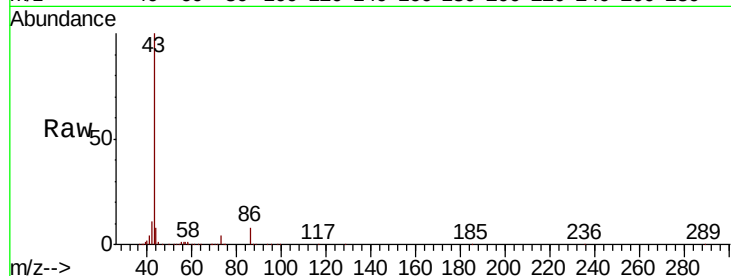
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion	43	Resp	230369
Ion Ratio	Lower	Upper	
43	100		
86	8.0	6.1	9.1
42	11.0	7.4	11.2
44	5.7	4.2	6.2

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.891 ppbv

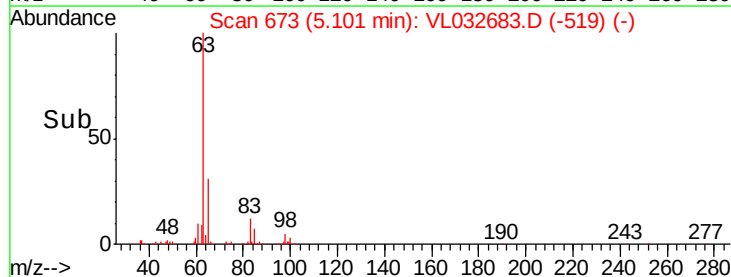
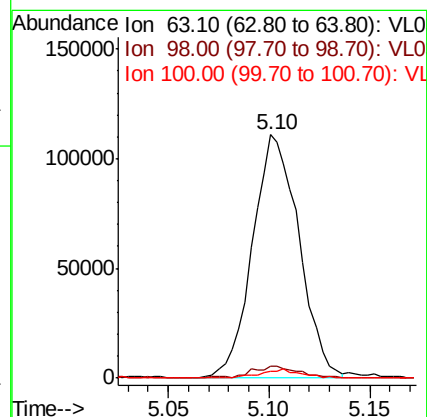
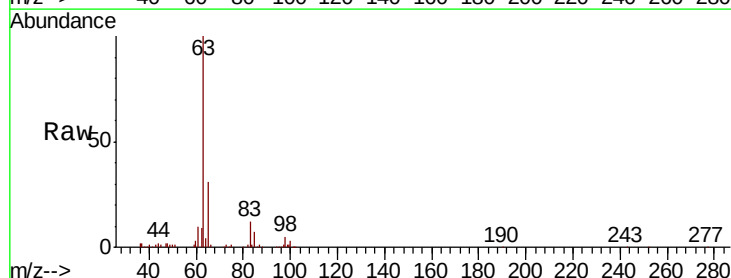
RT: 5.10 min Scan# 673

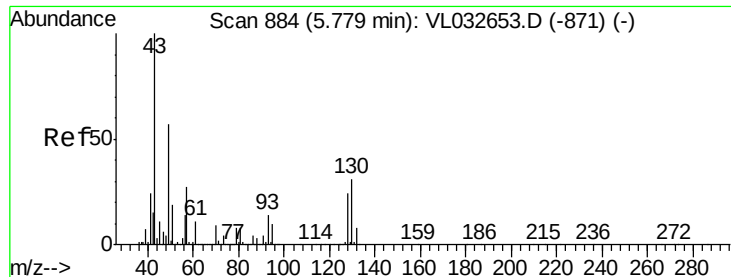
Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion	63	Resp	178548
Ion Ratio	Lower	Upper	
63	100		
98	4.5	2.1	6.3
100	3.0	1.2	3.6





#25

Ethyl Acetate

Concen: 1.037 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

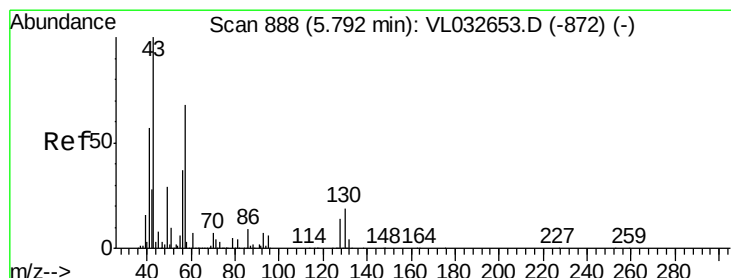
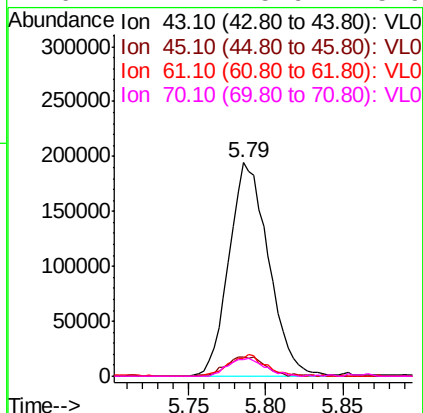
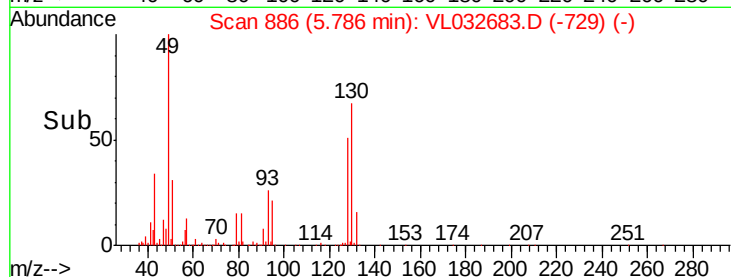
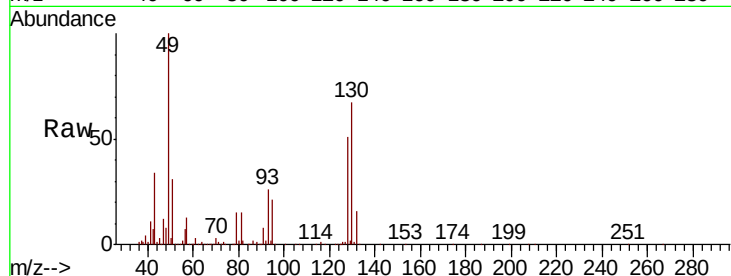
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.5	8.0	12.0		
61	9.5	8.0	12.0		
70	7.7	5.9	8.9		

Manual Integrations
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#26

Hexane

Concen: 1.043 ppbv

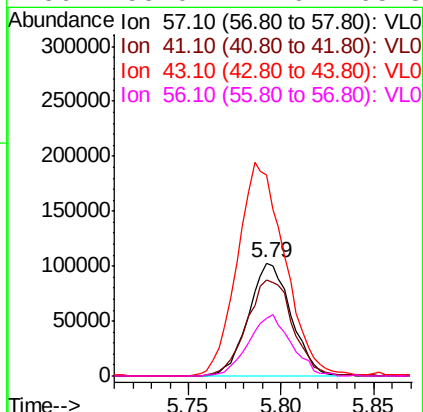
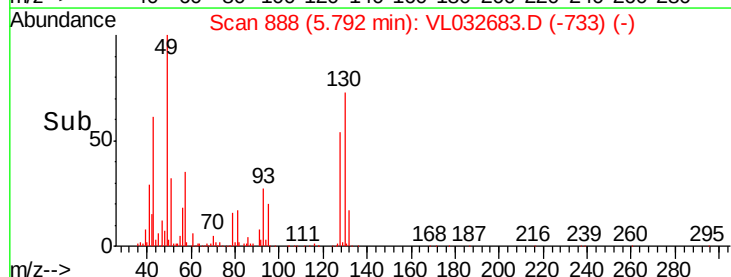
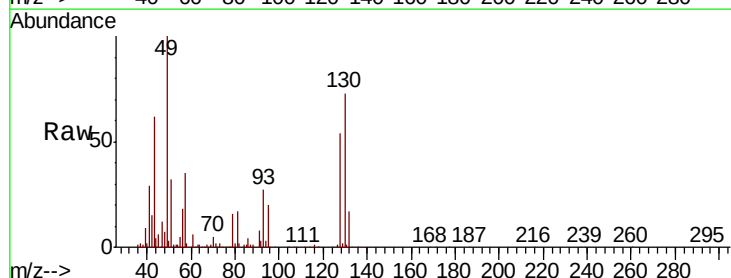
RT: 5.79 min Scan# 888

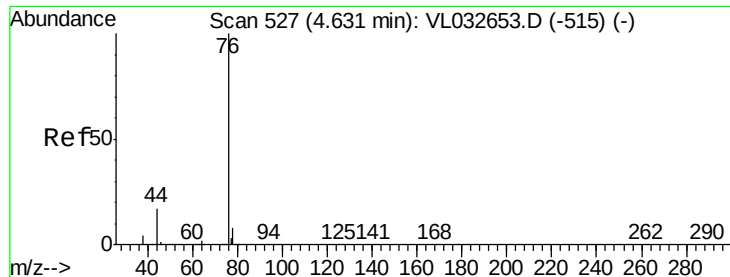
Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	92.9	67.4	101.0		
43	214.9	171.9	257.9		
56	55.0	42.6	63.8		





#27

Carbon Disulfide

Concen: 0.970 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

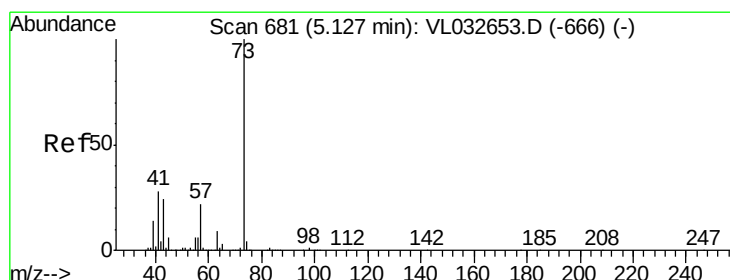
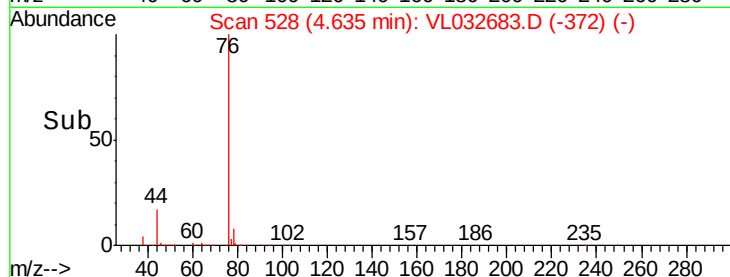
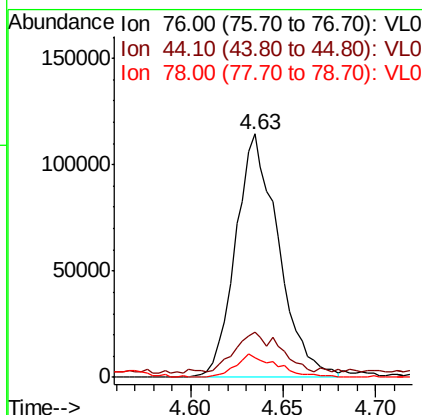
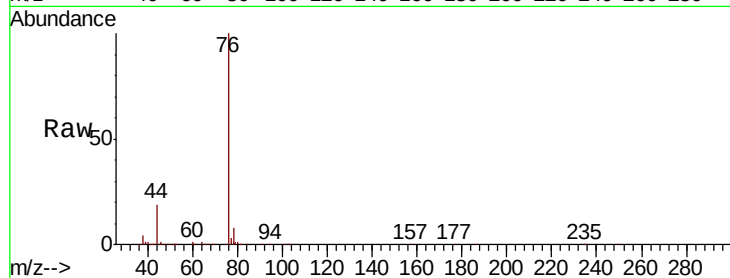
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion:	76	Resp:	184490
Ion Ratio	Lower	Upper	
76	100		
44	22.9	13.7	20.5#
78	9.3	7.4	11.2

Manual Integrations
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10/24/2018 12:06:56 PM



#28

Methyl tert-Butyl Ether

Concen: 0.866 ppbv m

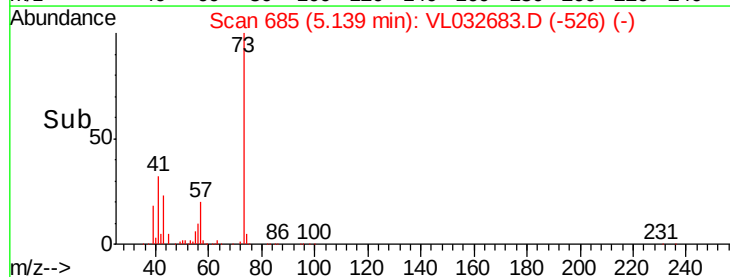
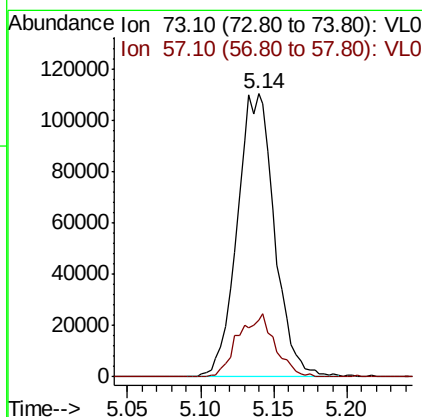
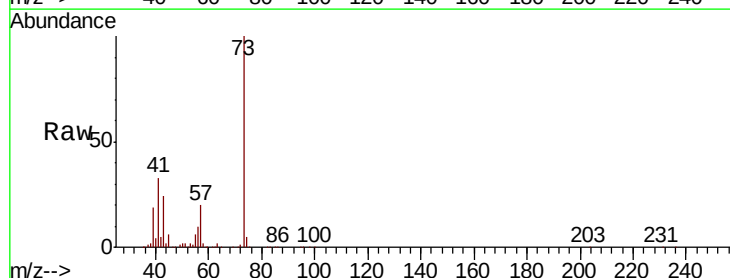
RT: 5.14 min Scan# 685

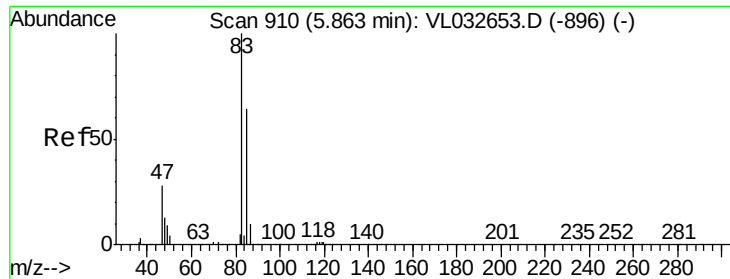
Delta R.T. 0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion:	73	Resp:	195327
Ion Ratio	Lower	Upper	
73	100		
57	0.0	18.0	27.0#





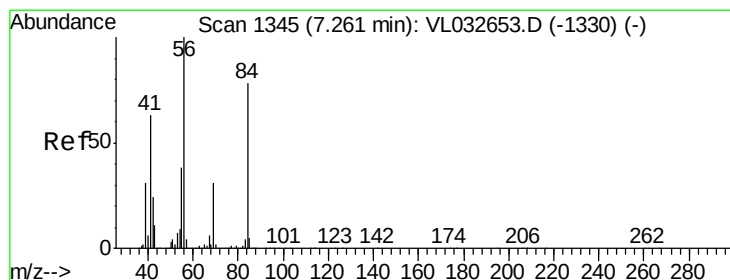
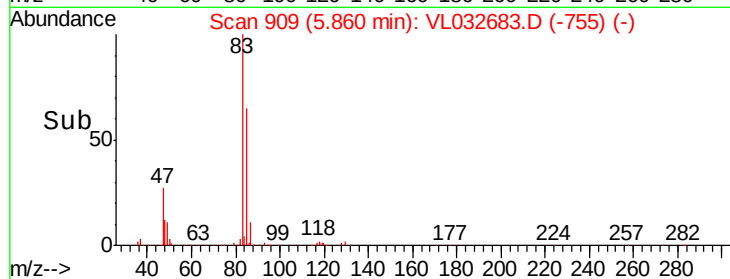
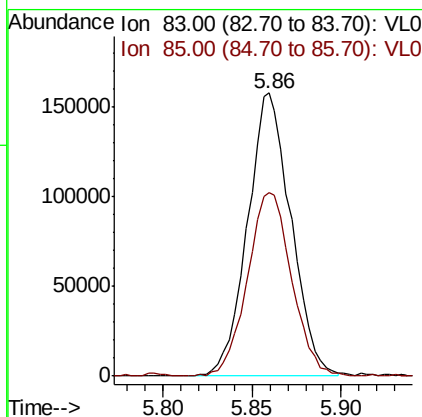
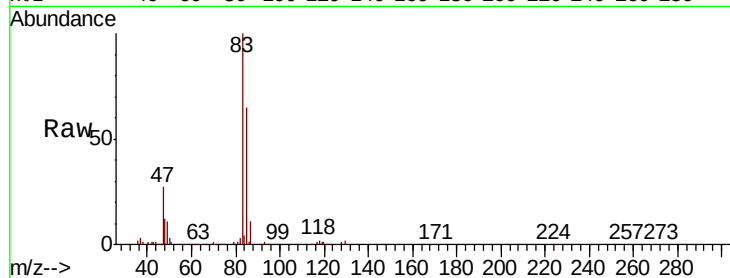
#29
Chloroform
Concen: 1.070 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.7	53.0	79.6

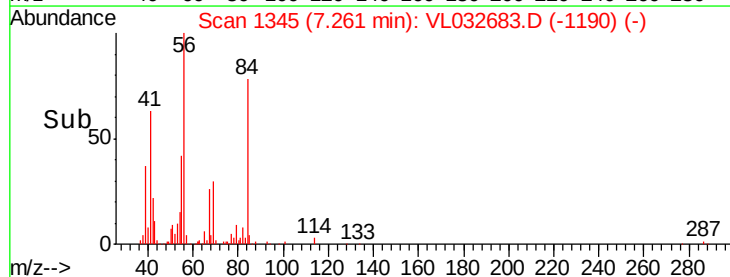
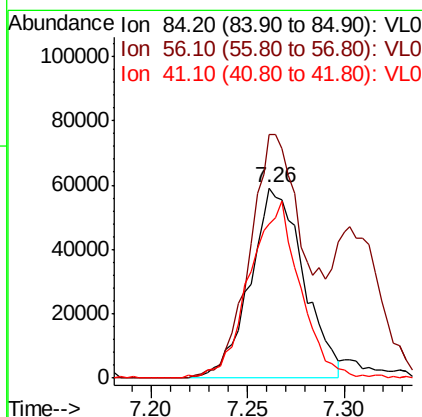
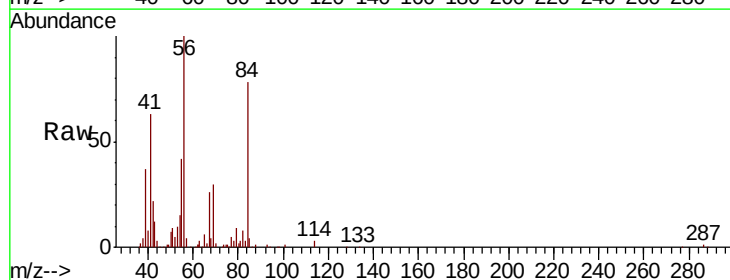
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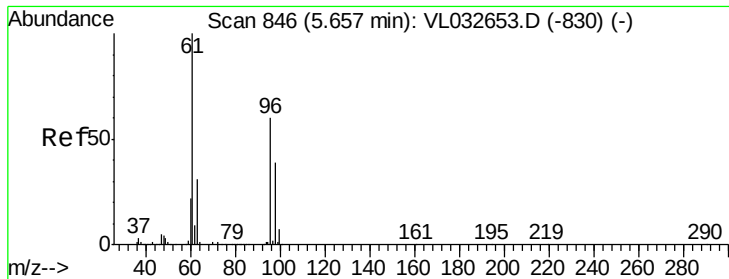
MMDadoda
10/24/2018 12:06:56 PM



#30
Cyclohexane
Concen: 0.907 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
84	100		
56	136.9	108.3	162.5
41	89.2	64.8	97.2





#31

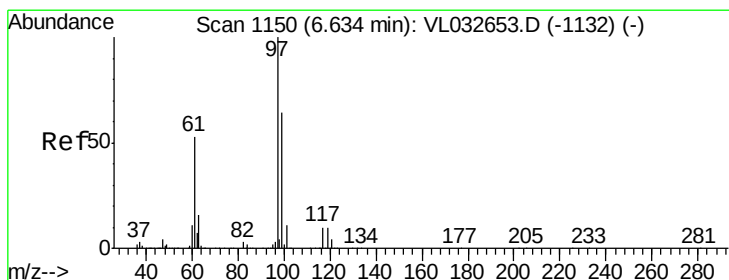
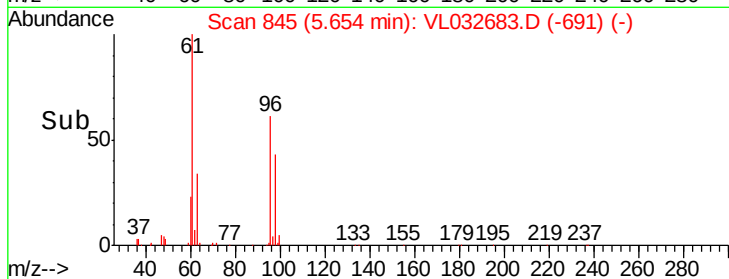
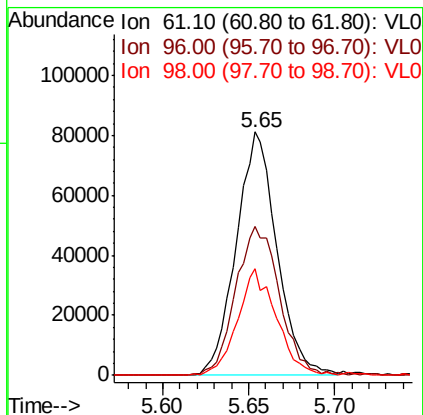
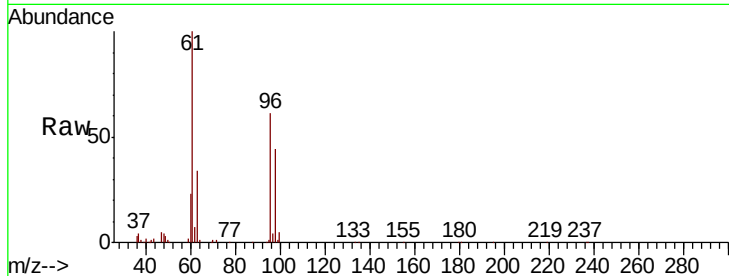
cis-1,2-Dichloroethene
Concen: 0.915 ppbv
RT: 5.65 min Scan# 845
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.0	51.8	77.6
98	43.6	33.8	50.6

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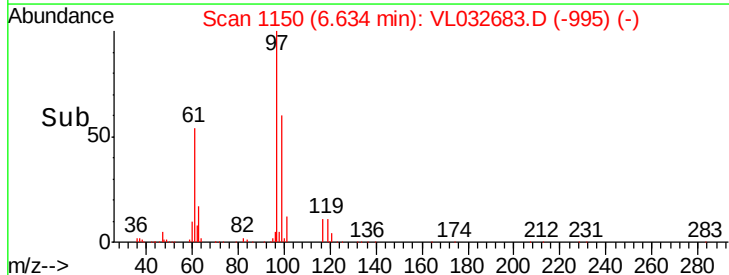
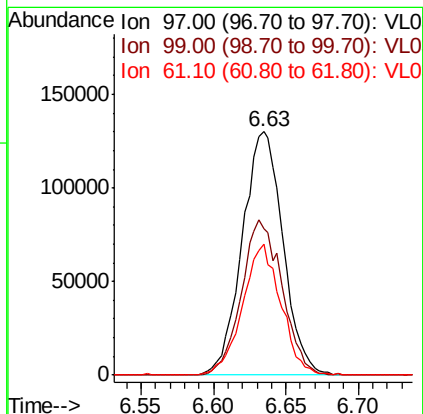
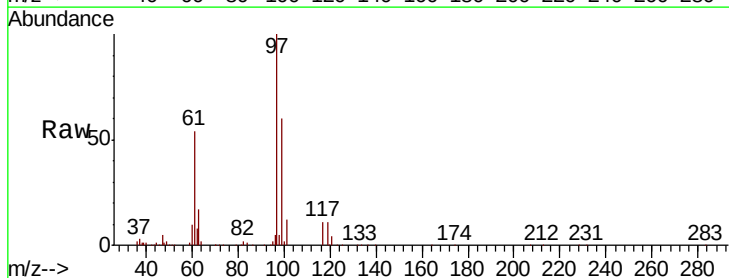
MMDadoda
10/24/2018 12:06:56 PM

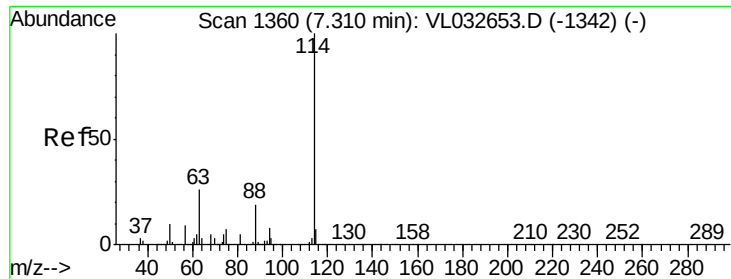


#32

1,1,1-Trichloroethane
Concen: 0.998 ppbv
RT: 6.63 min Scan# 1150
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	52.0	78.0
61	51.0	40.7	61.1





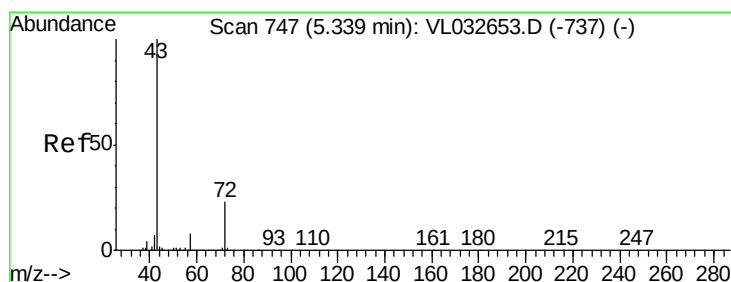
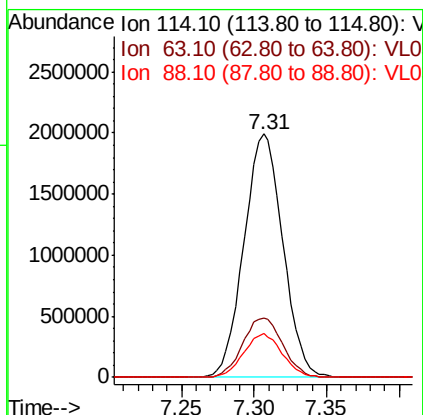
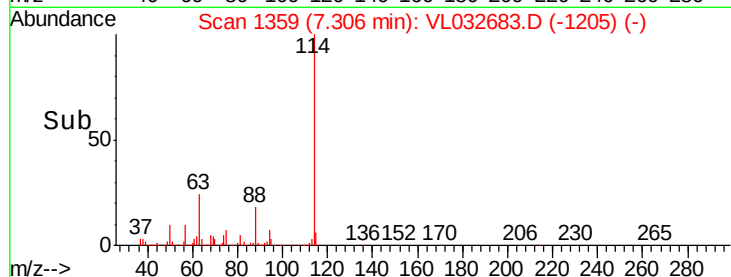
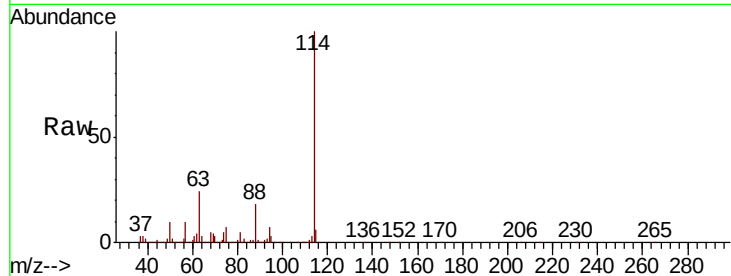
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2018

Tot Ion:114 Resp: 3722684
 Ion Ratio Lower Upper
 114 100
 63 25.2 21.7 32.5
 88 17.9 14.9 22.3

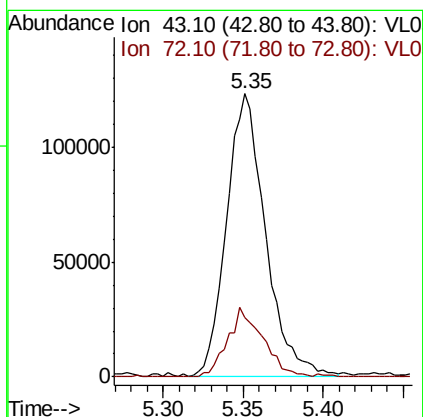
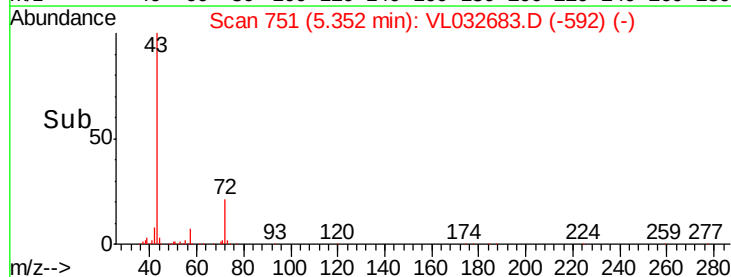
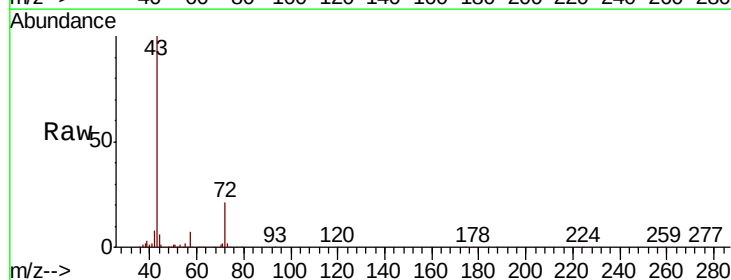
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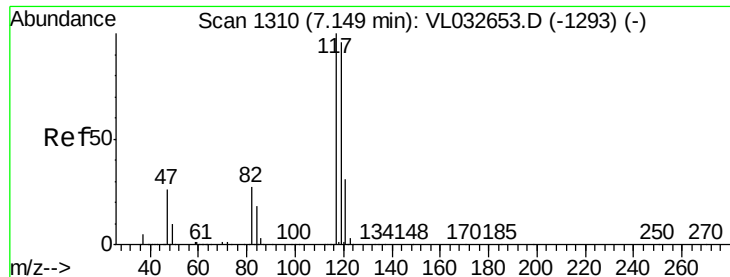
MMDadoda
 10/24/2018 12:06:56 PM



#34
 2-Butanone
 Concen: 1.020 ppbv
 RT: 5.35 min Scan# 751
 Delta R.T. 0.01 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Tgt Ion: 43 Resp: 203626
 Ion Ratio Lower Upper
 43 100
 72 23.0 18.6 27.8





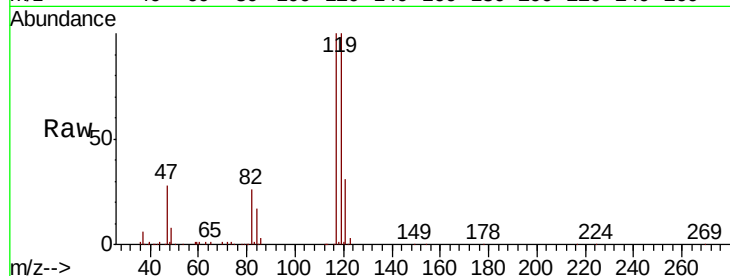
#35
Carbon Tetrachloride
Concen: 1.044 ppbv
RT: 7.15 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
117	100		
119	100.0	75.7	113.5
121	30.6	24.7	37.1

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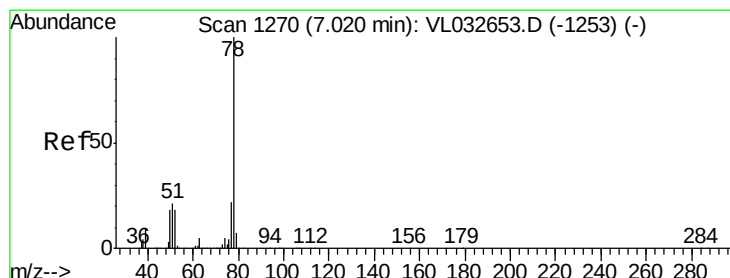
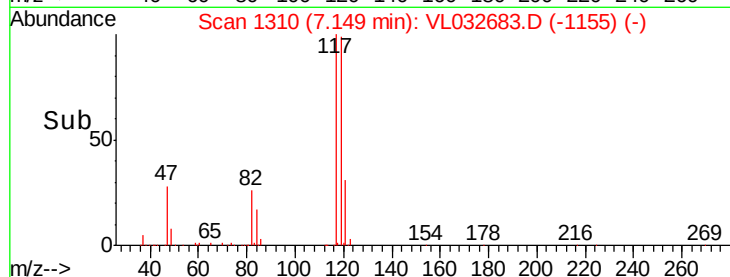
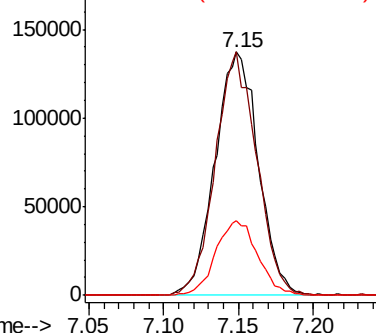


Abundance

Ion 117.00 (116.70 to 117.70): V

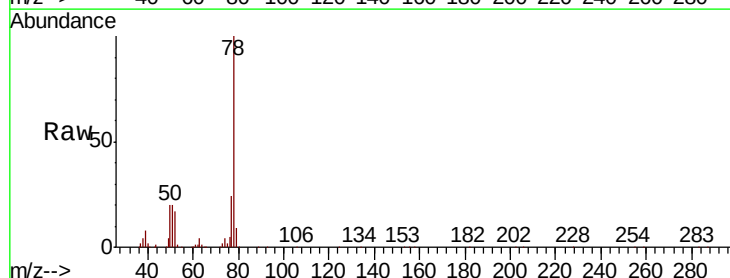
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 0.962 ppbv
RT: 7.02 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.1	27.1
50	19.5	15.1	22.7

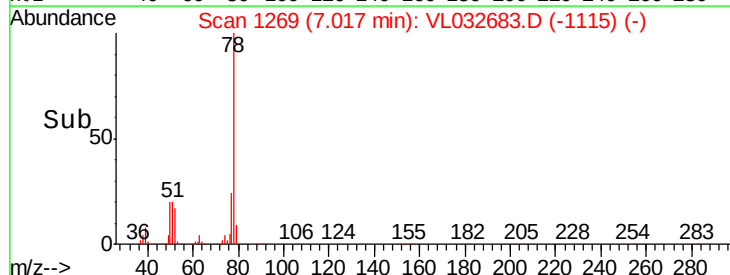
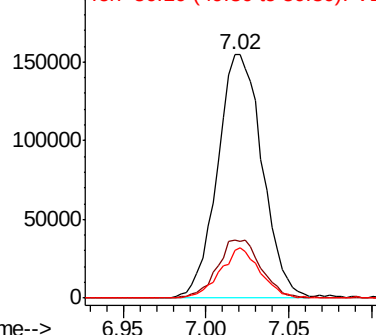


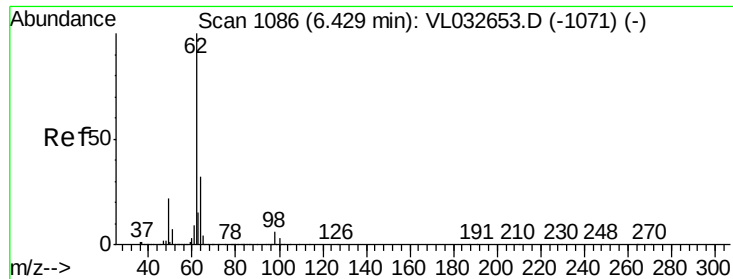
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





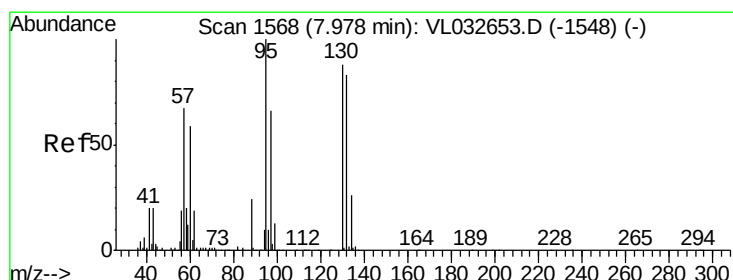
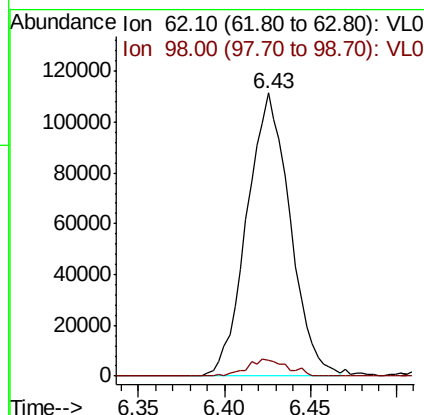
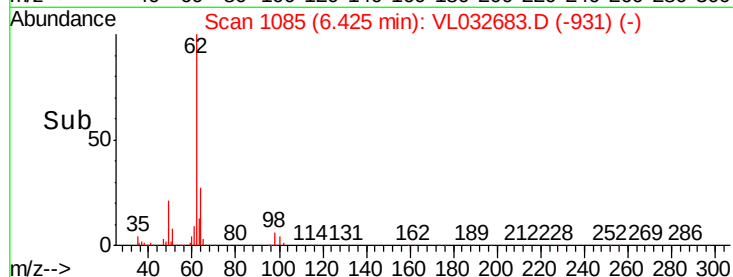
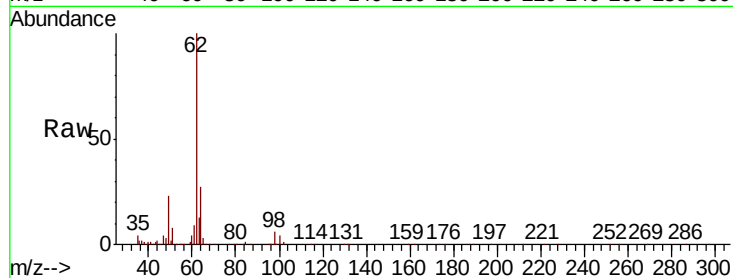
#37
 1,2-Dichloroethane
 Concen: 1.048 ppbv
 RT: 6.43 min Scan# 1085
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Resp	Lower	Upper
62	100	194283		
98	5.8	4.4	6.6	

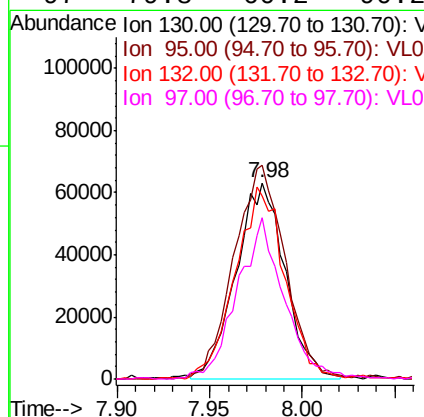
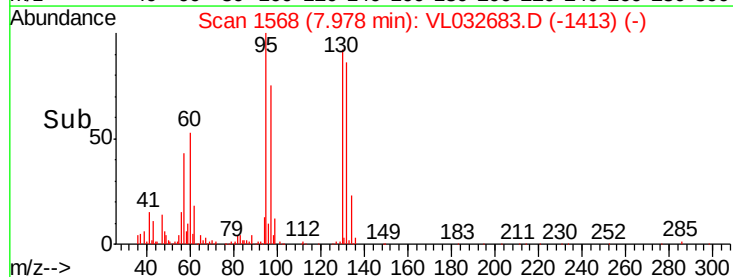
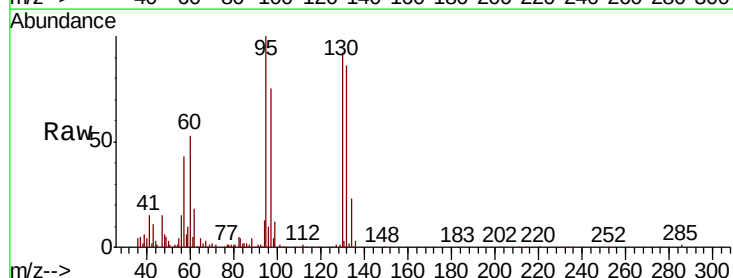
Manual Integrations
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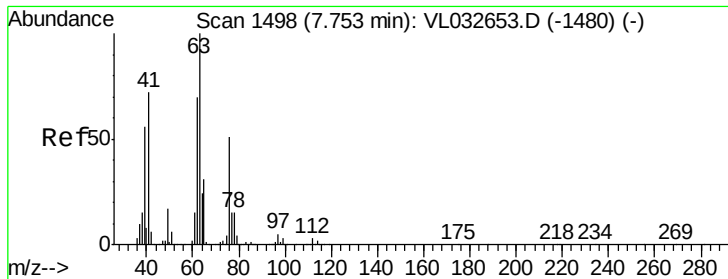
MMDadoda
 10/24/2018 12:06:56 PM



#38
 Trichloroethene
 Concen: 1.036 ppbv
 RT: 7.98 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	115902		
95	108.5	93.4	140.0	
132	93.5	76.5	114.7	
97	79.8	60.2	90.2	





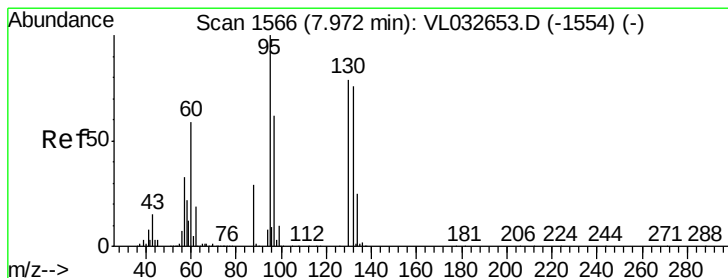
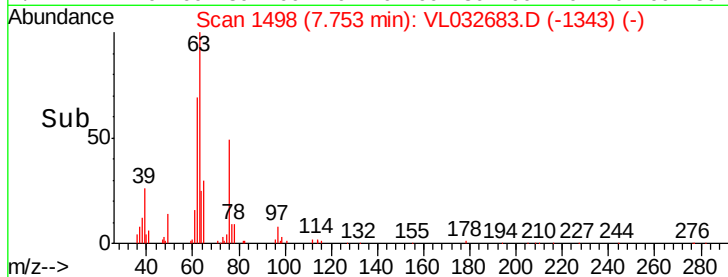
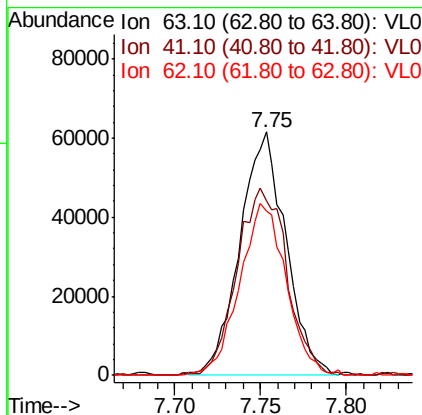
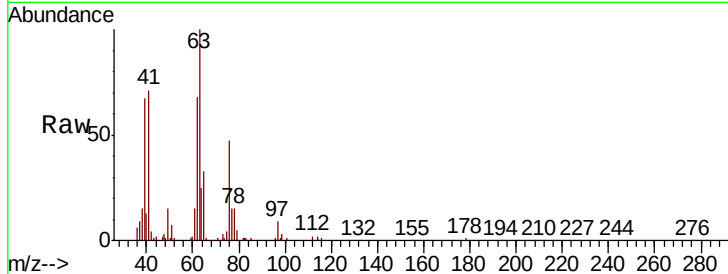
#39
 1,2-Dichloropropane
 Concen: 0.969 ppbv
 RT: 7.75 min Scan# 1498
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.8	56.2	84.4
62	67.1	54.4	81.6

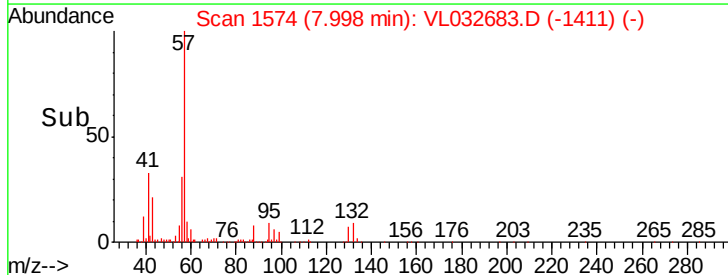
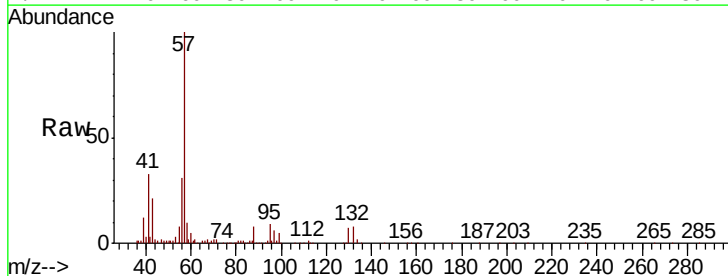
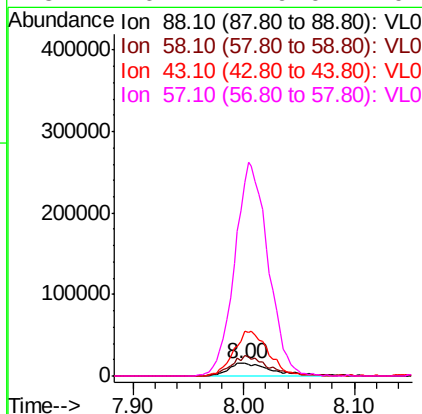
Manual Integrations
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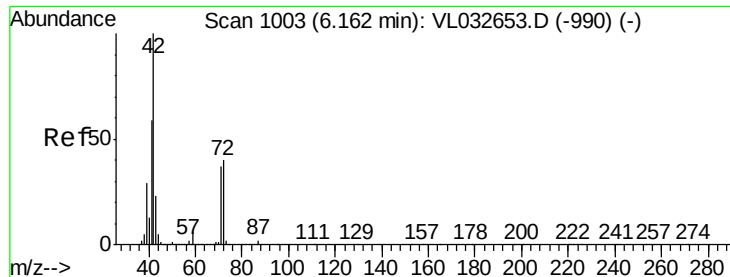
MMDadoda
 10/24/2018 12:06:56 PM



#40
 1,4-Dioxane
 Concen: 1.090 ppbv m
 RT: 8.00 min Scan# 1574
 Delta R.T. 0.03 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
88	100		
58	137.2	104.0	156.0
43	277.8	0.0	0.0#
57	1267.2	0.0	0.0#





#41

Tetrahydrofuran

Concen: 0.931 ppbv

RT: 6.18 min Scan# 1009

Delta R.T. 0.02 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

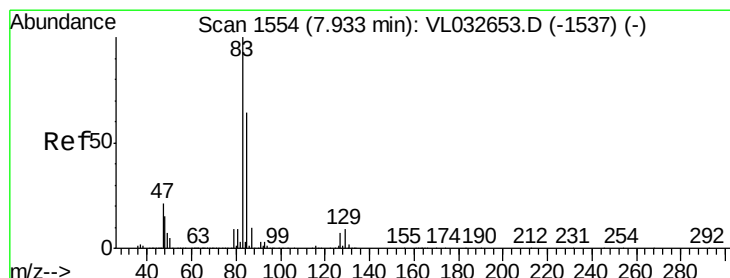
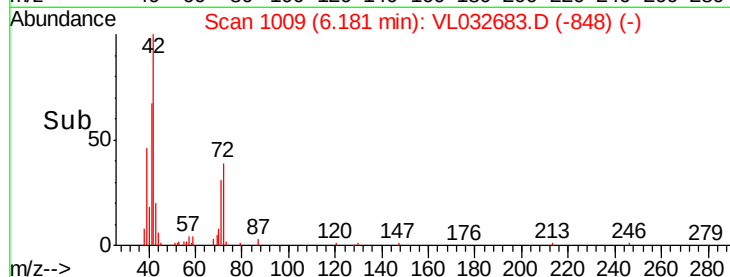
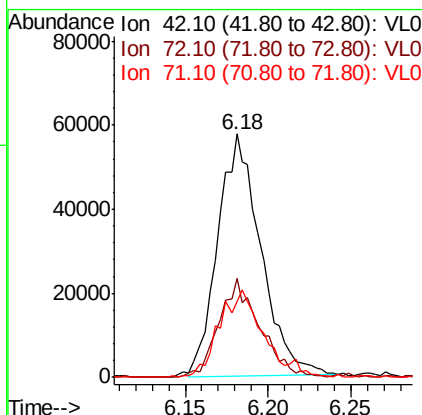
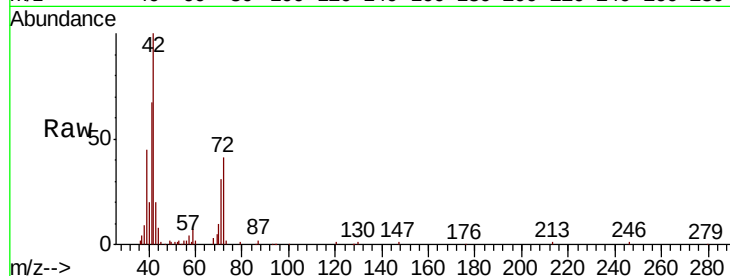
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion:	42	Resp:	103562
Ion Ratio		Lower	Upper
42	100		
72	38.7	32.4	48.6
71	37.4	31.3	46.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 1.018 ppbv

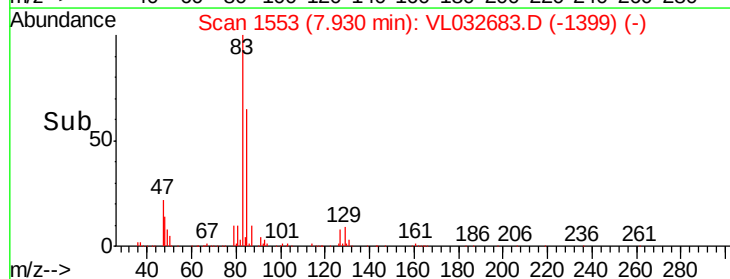
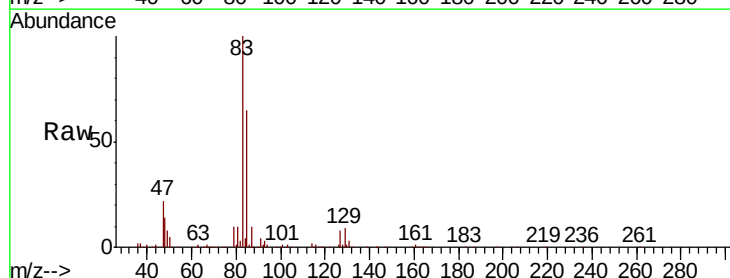
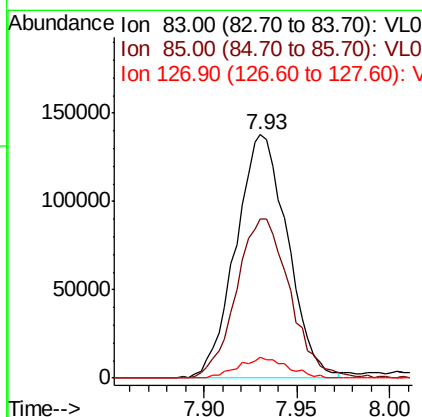
RT: 7.93 min Scan# 1553

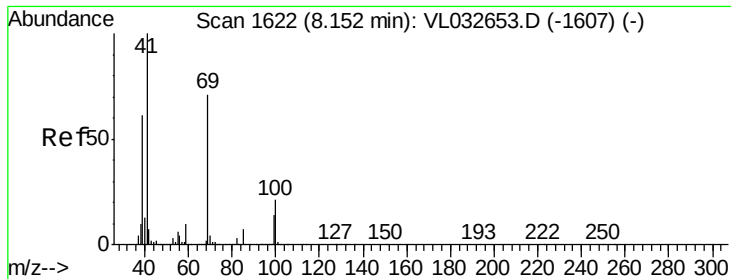
Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion:	83	Resp:	264480
Ion Ratio		Lower	Upper
83	100		
85	65.1	52.4	78.6
127	8.5	6.1	9.1





#43

Methyl Methacrylate

Concen: 0.889 ppbv

RT: 8.16 min Scan# 1624

Delta R.T. 0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

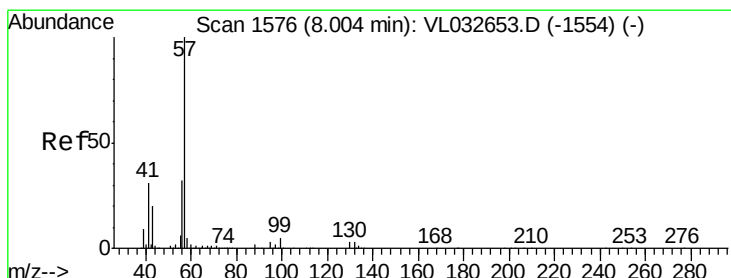
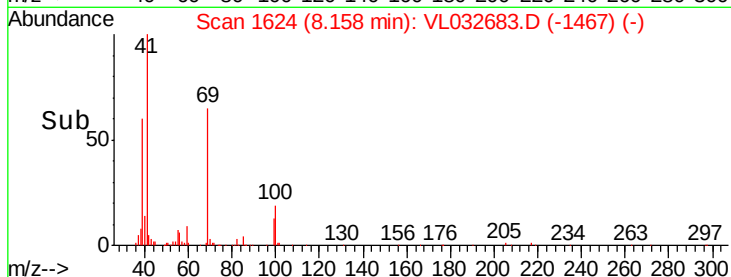
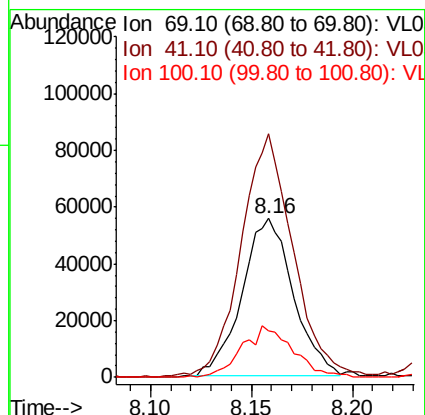
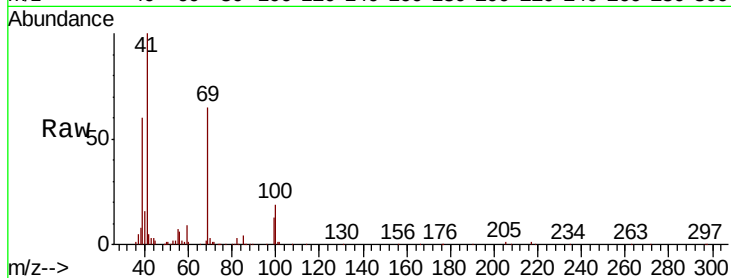
Instrument :
MSVOA_L

ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
69	100		
41	155.8	113.2	169.8
100	32.8	24.4	36.6

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 1.061 ppbv

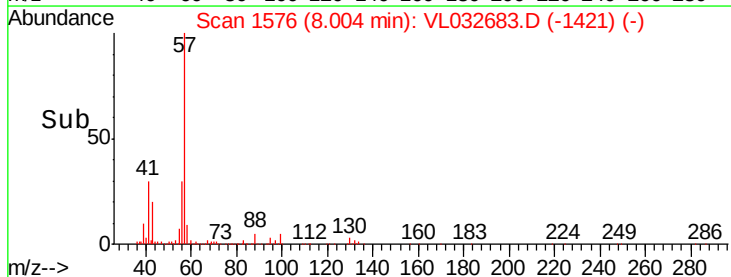
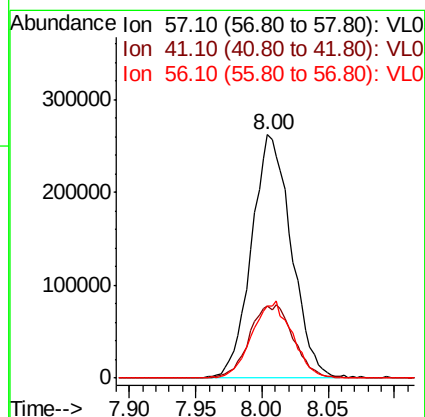
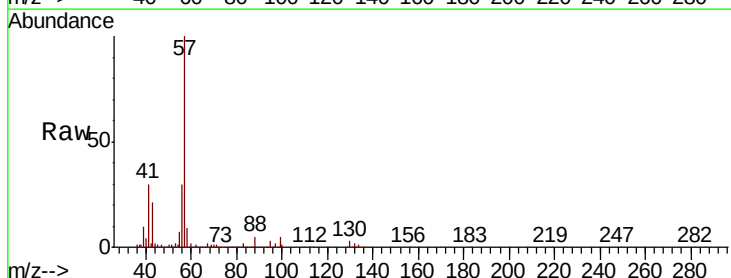
RT: 8.00 min Scan# 1576

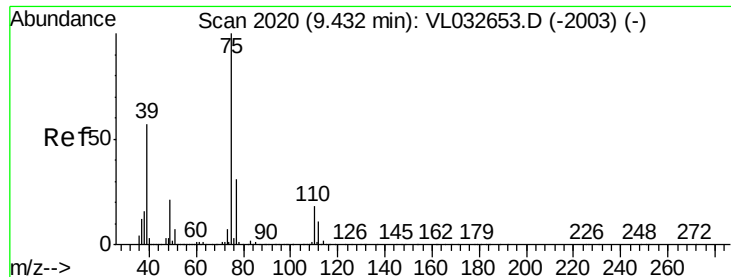
Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.3	24.7	37.1
56	32.0	25.0	37.4





#45

t-1,3-Dichloropropene

Concen: 0.824 ppbv

RT: 9.43 min Scan# 2021

Delta R.T. 0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

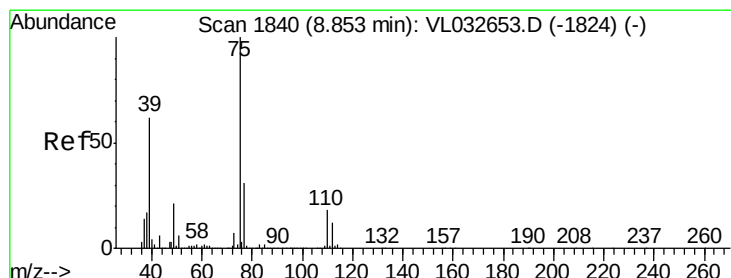
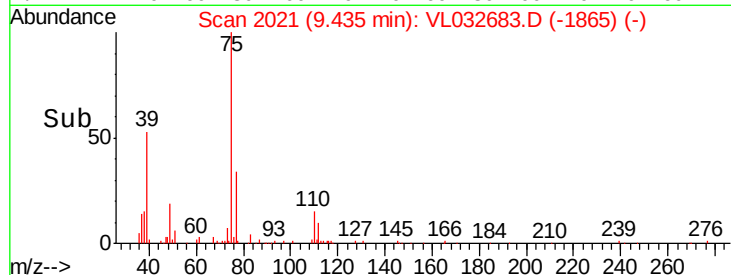
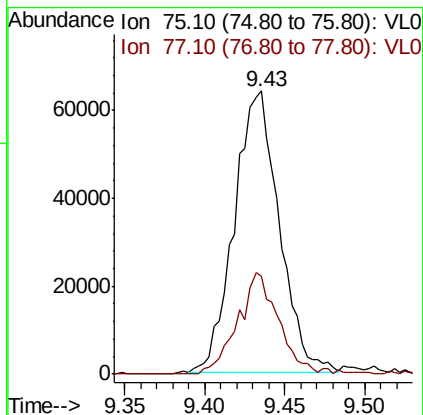
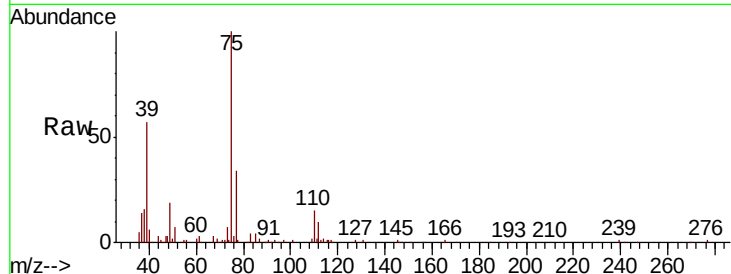
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
75	100		
77	35.1	25.3	37.9

Manual Integrations
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#46

cis-1,3-Dichloropropene

Concen: 0.798 ppbv

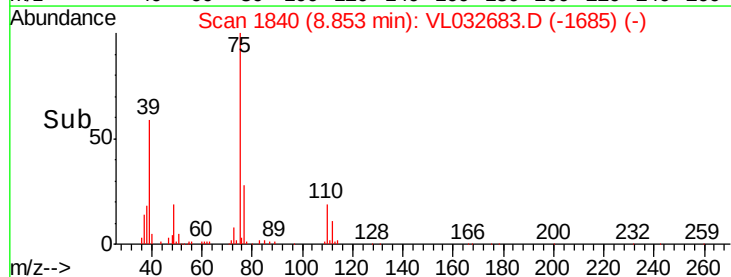
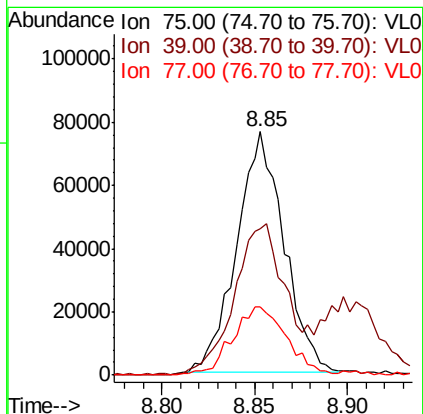
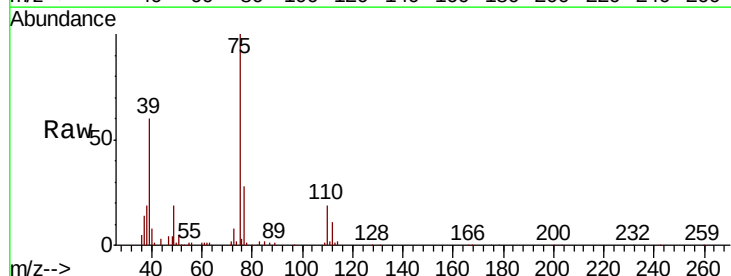
RT: 8.85 min Scan# 1840

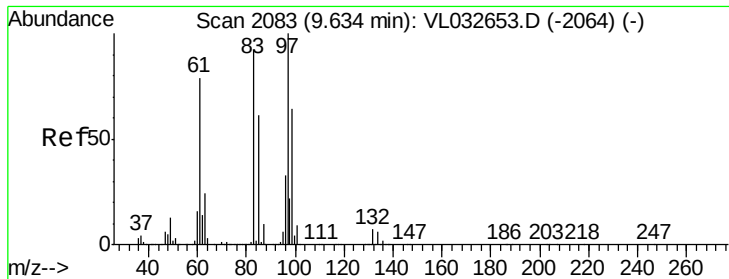
Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
75	100		
39	58.2	50.9	76.3
77	27.6	25.8	38.6





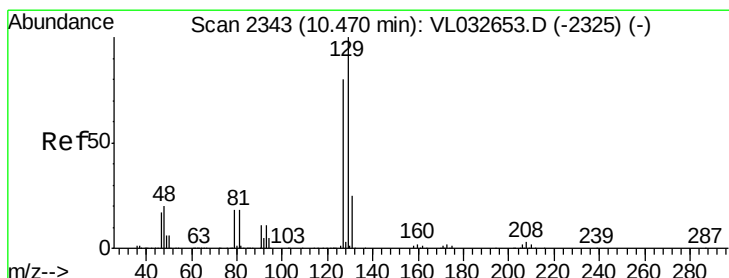
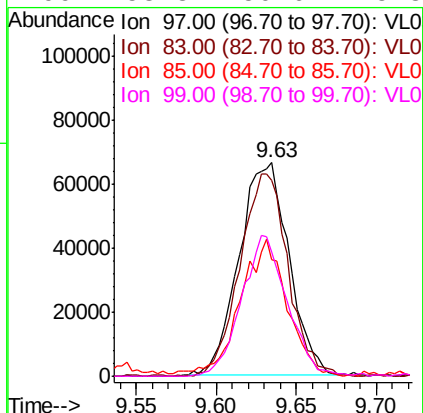
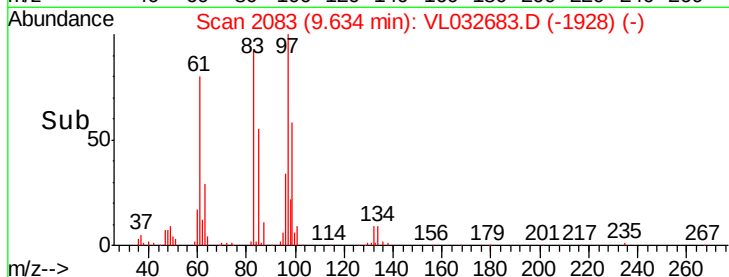
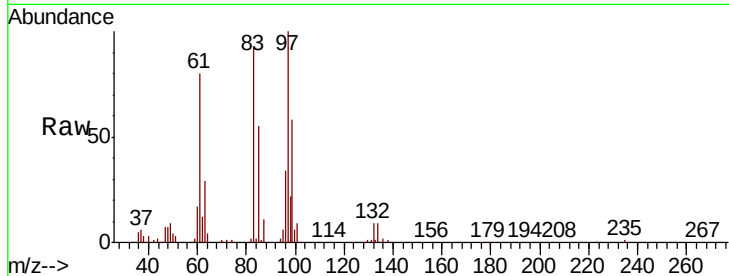
#47
 1,1,2-Trichloroethane
 Concen: 1.029 ppbv
 RT: 9.63 min Scan# 2083
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2018

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.7	73.5	110.3	
85	54.2	45.8	68.6	
99	58.3	50.6	75.8	

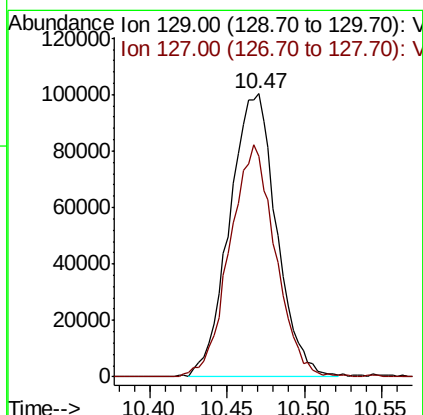
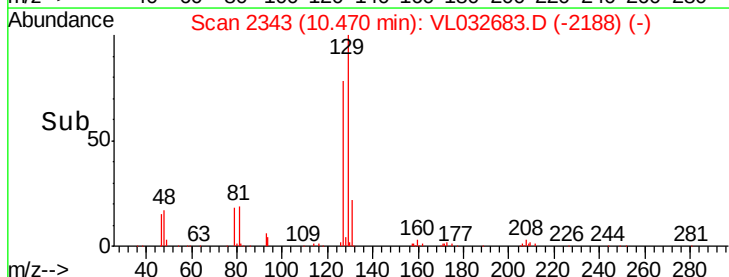
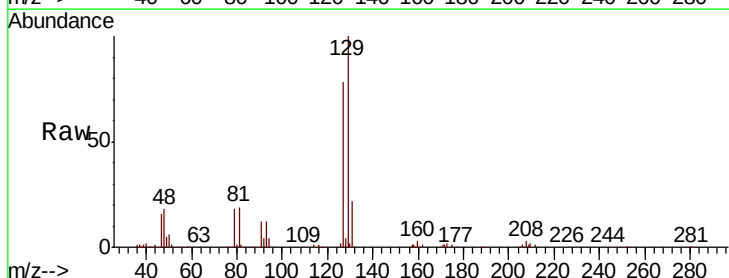
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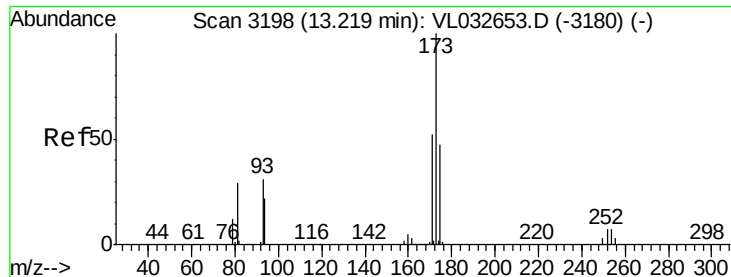
MMDadoda
 10/24/2018 12:06:56 PM



#48
 Dibromochloromethane
 Concen: 0.921 ppbv
 RT: 10.47 min Scan# 2343
 Delta R.T. -0.00 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.8	39.1	117.5	





#49

Bromoform

Concen: 1.064 ppbv

RT: 13.22 min Scan# 3197

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

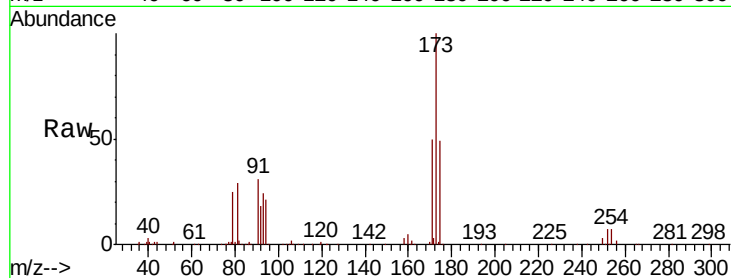
ClientSampleId :

LOQ-AIR-02-QT4-2018

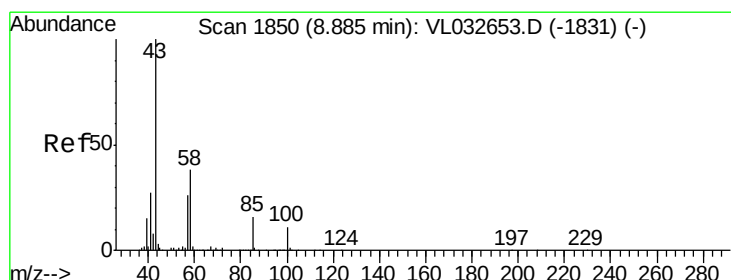
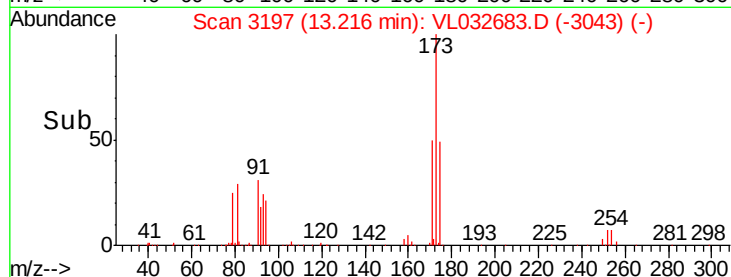
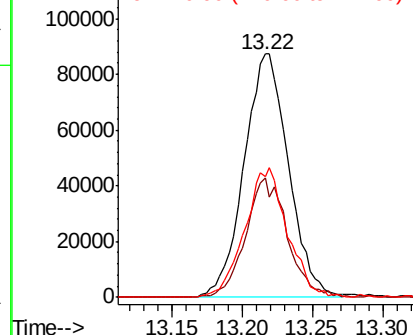
Tot Ion:	173	Resp:	192153
Ion Ratio	Lower	Upper	
173	100		
175	46.2	39.0	58.4
171	50.9	42.2	63.2

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



#50

4-Methyl-2-Pentanone

Concen: 0.975 ppbv

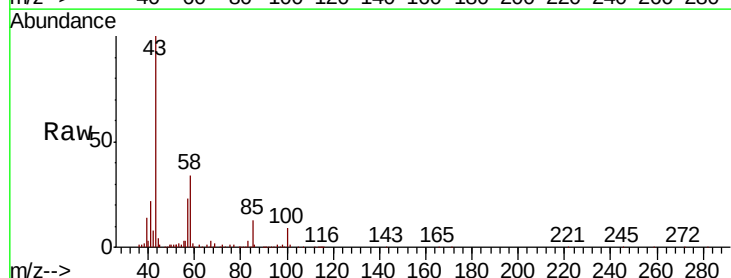
RT: 8.90 min Scan# 1855

Delta R.T. 0.02 min

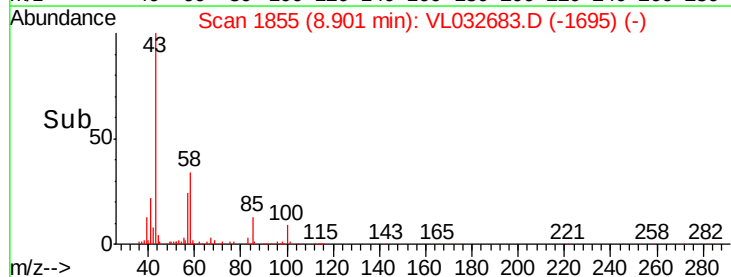
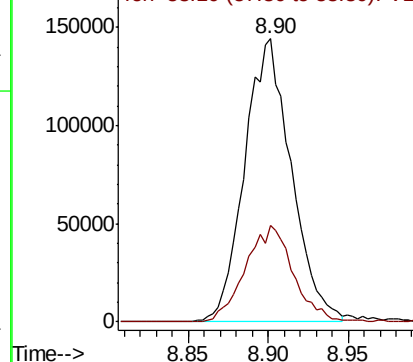
Lab File: VL032683.D

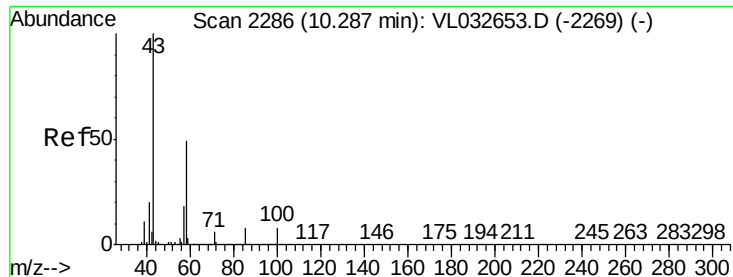
Acq: 19 Oct 2018 14:14

Tgt Ion:	43	Resp:	288170
Ion Ratio	Lower	Upper	
43	100		
58	35.3	29.7	44.5



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





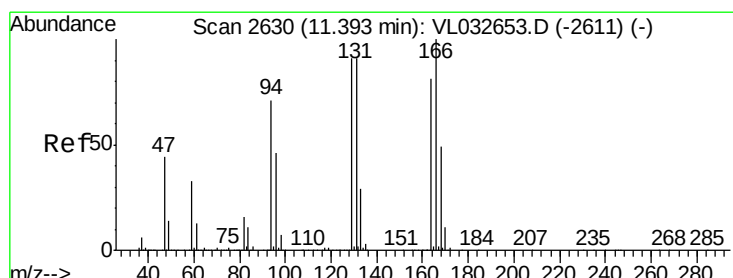
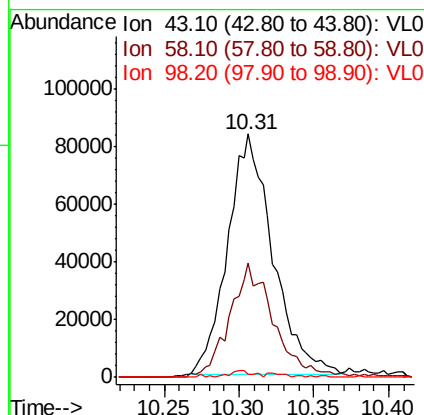
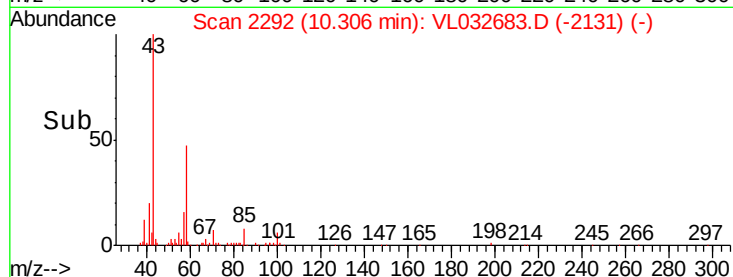
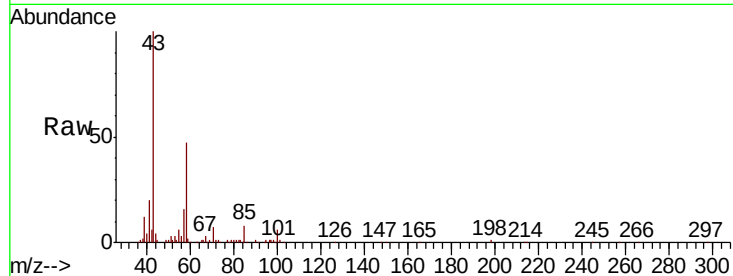
#51
2-Hexanone
Concen: 0.801 ppbv
RT: 10.31 min Scan# 2292
Delta R.T. 0.02 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.1	40.4	60.6
98	2.5	0.4	0.6#

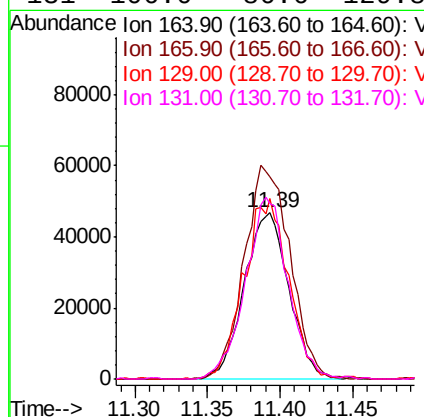
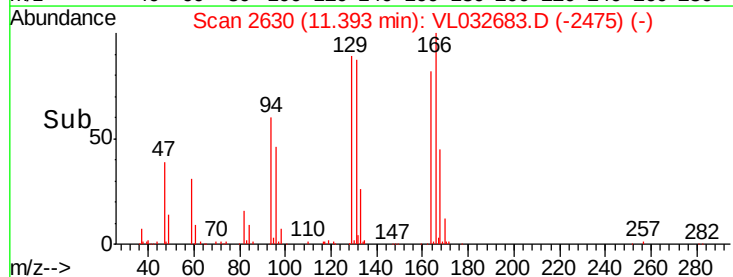
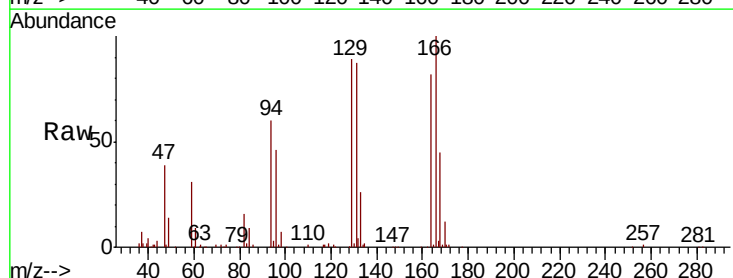
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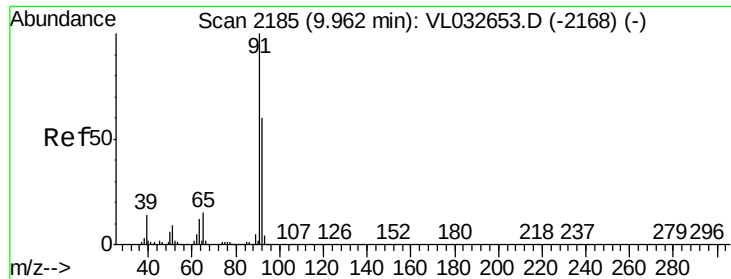
MMDadoda
10/24/2018 12:06:56 PM



#52
Tetrachloroethene
Concen: 0.952 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.8	100.5	150.7
129	109.0	90.0	135.0
131	106.0	86.6	129.8





#53

Toluene

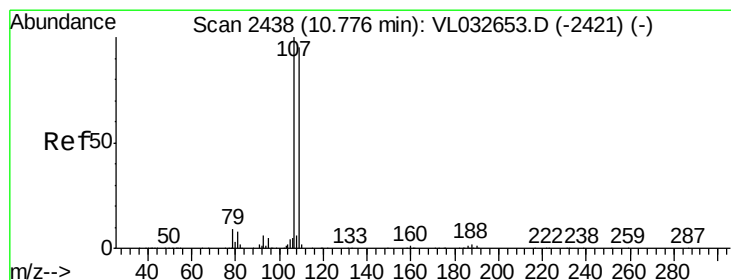
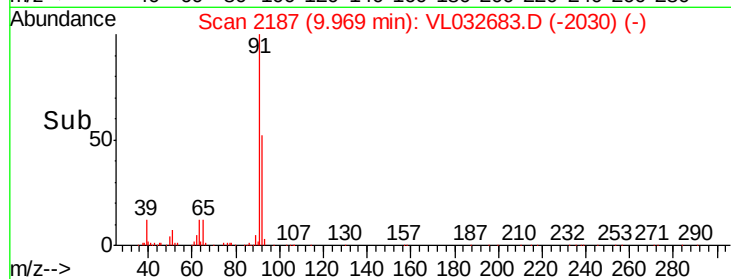
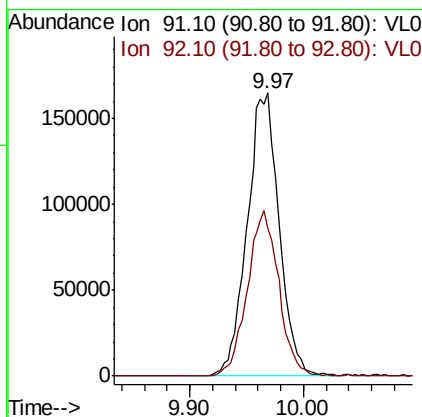
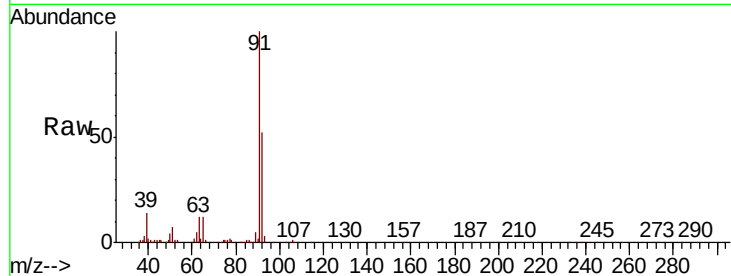
Concen: 0.930 ppbv m
RT: 9.97 min Scan# 2187
Delta R.T. 0.01 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion: 91 Resp: 322373
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#

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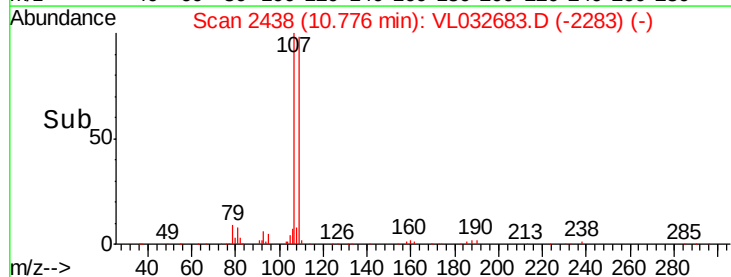
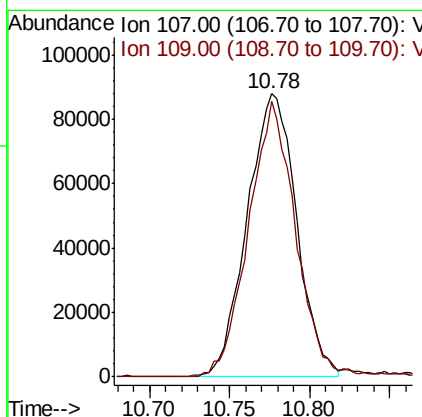
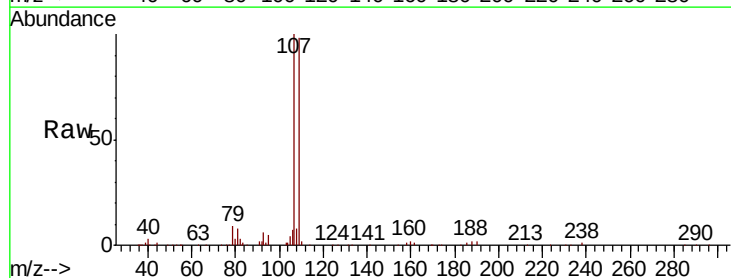


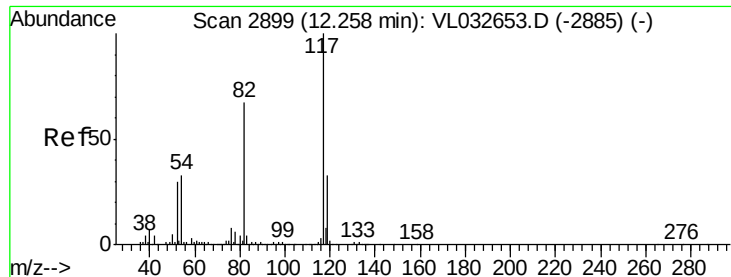
#54

1,2-Dibromoethane

Concen: 0.995 ppbv
RT: 10.78 min Scan# 2438
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 107 Resp: 186616
Ion Ratio Lower Upper
107 100
109 97.6 75.3 112.9





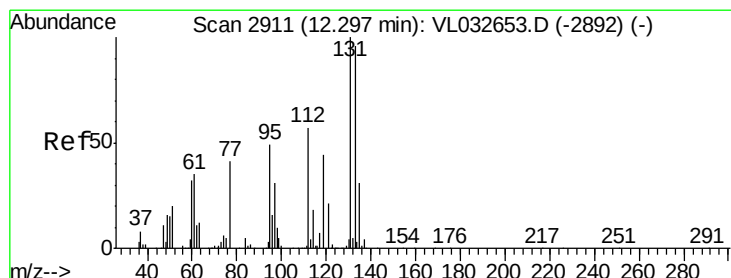
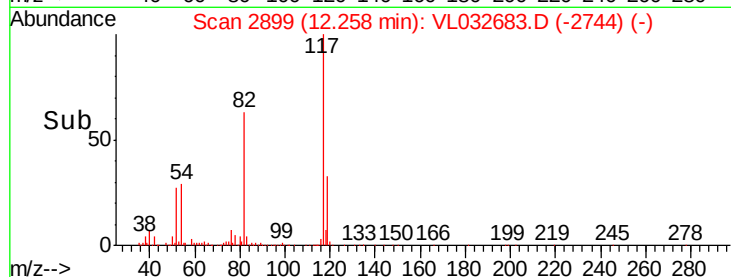
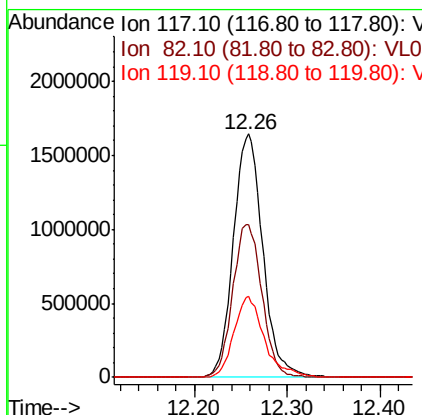
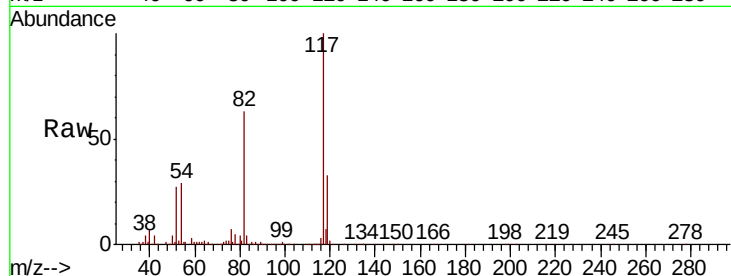
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion:117 Resp: 3627233
Ion Ratio Lower Upper
117 100
82 62.3 52.7 79.1
119 34.4 26.7 40.1

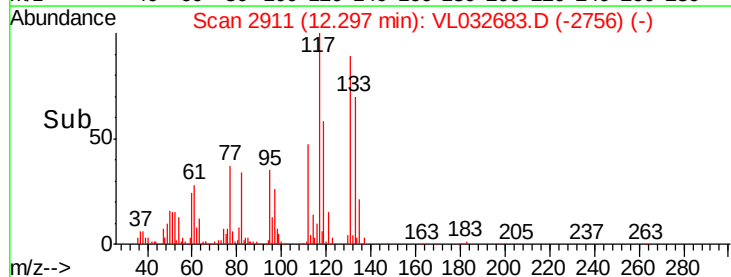
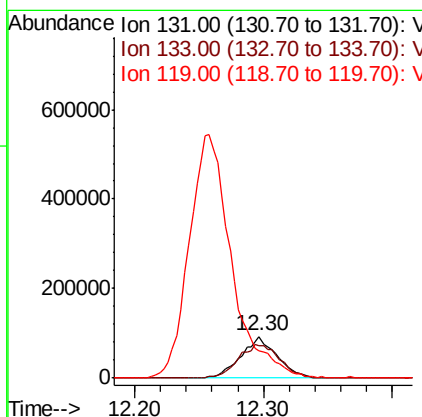
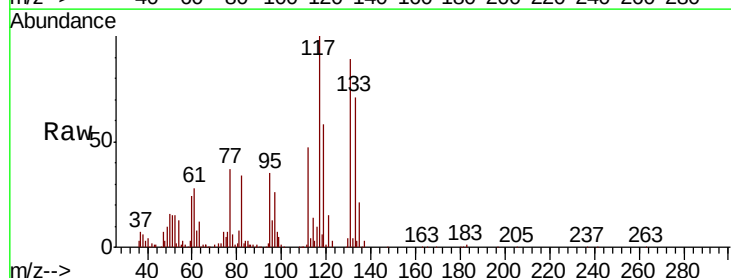
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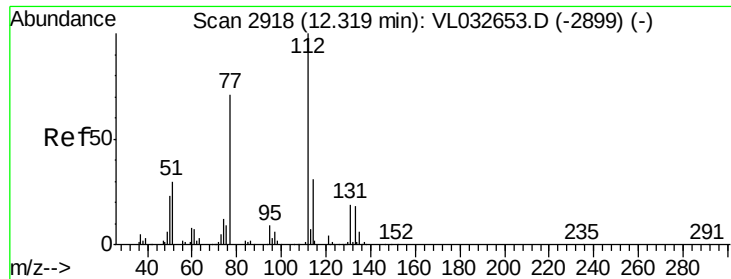
MMDadoda
10/24/2018 12:06:56 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.130 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion:131 Resp: 179306
Ion Ratio Lower Upper
131 100
133 93.7 75.4 113.2
119 695.8 49.1 73.7#





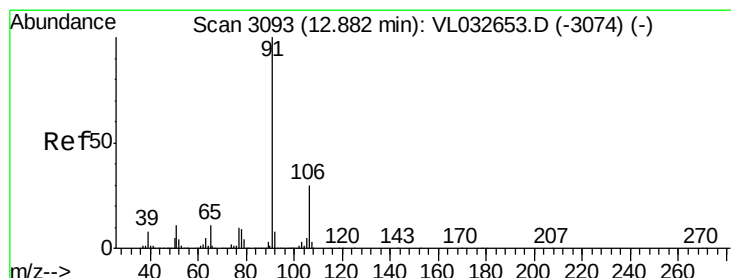
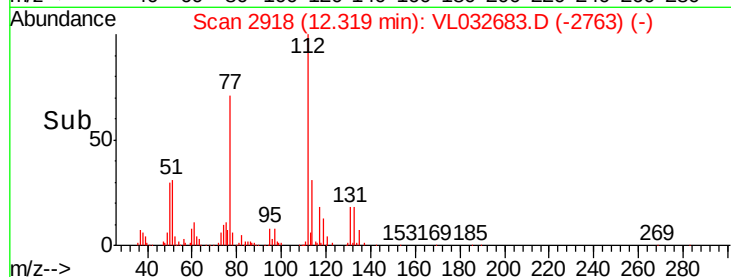
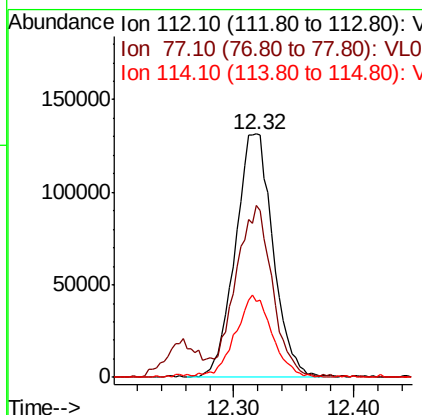
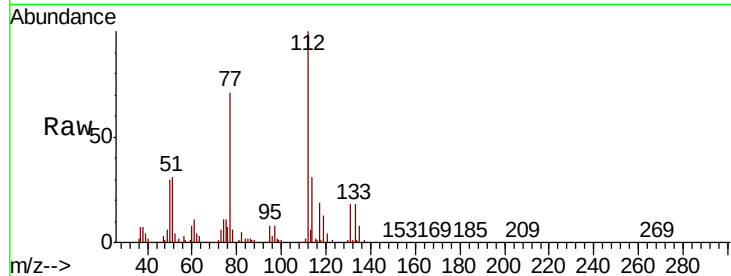
#57
Chlorobenzene
Concen: 1.079 ppbv
RT: 12.32 min Scan# 2918
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.8	56.8	85.2
114	31.0	30.3	37.1

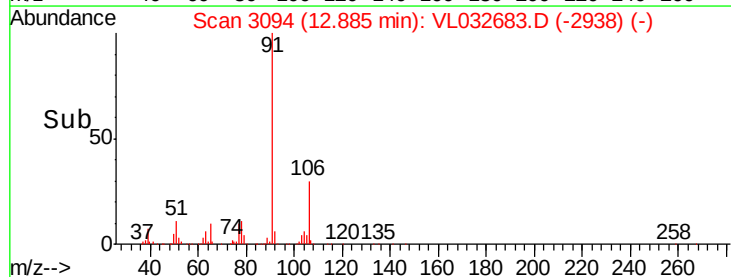
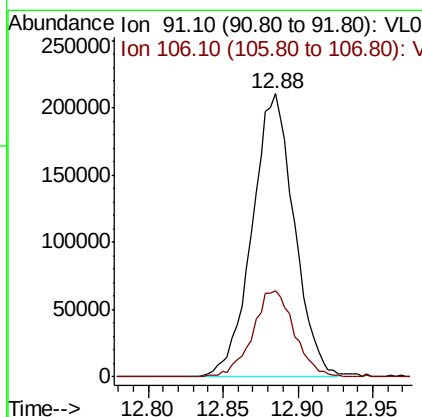
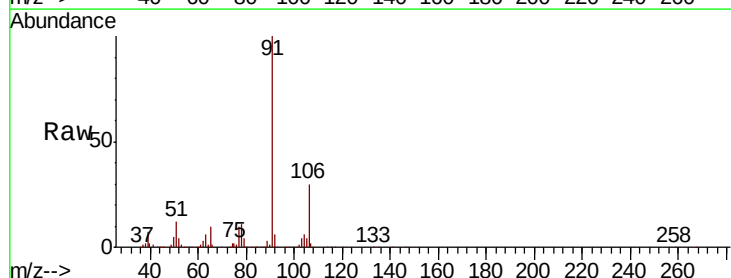
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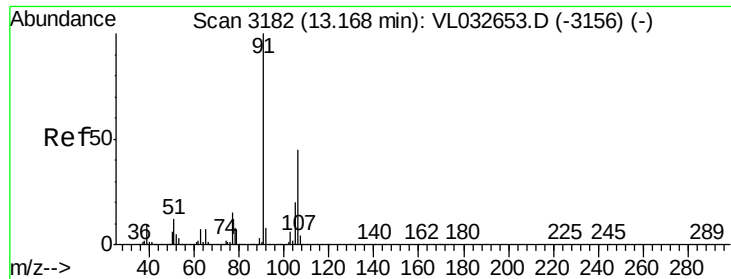
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#58
Ethyl Benzene
Concen: 0.978 ppbv
RT: 12.88 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.2	36.2





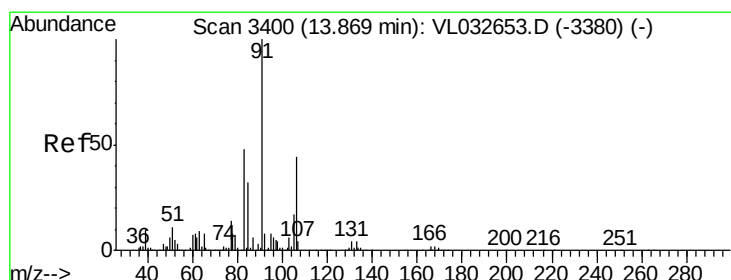
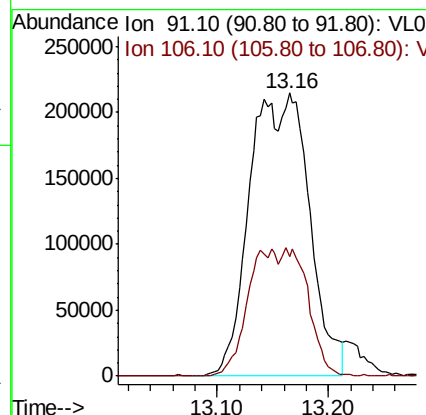
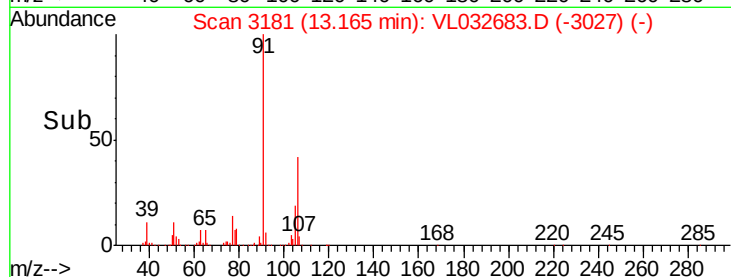
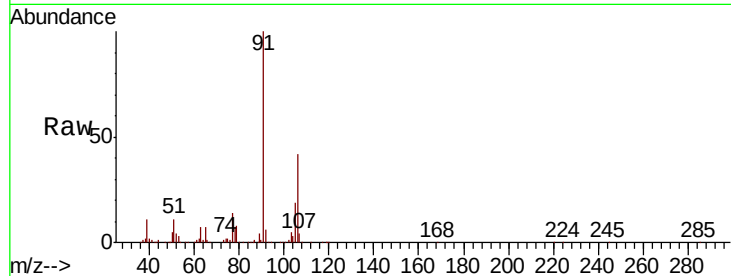
#59
m/p-Xylene
Concen: 2.135 ppbv m
RT: 13.16 min Scan# 3181
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion: 91 Resp: 801320
Ion Ratio Lower Upper
91 100
106 44.1 35.9 53.9

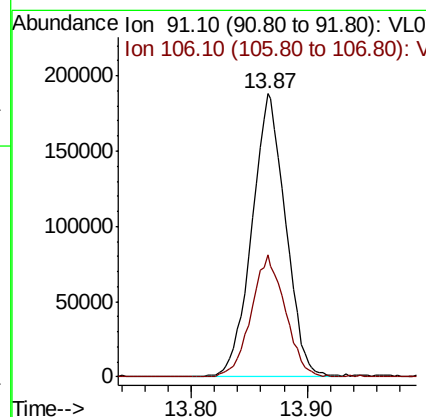
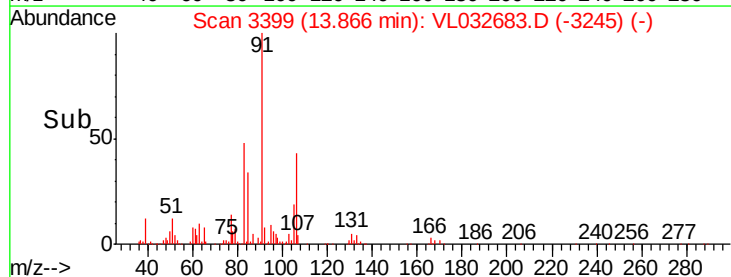
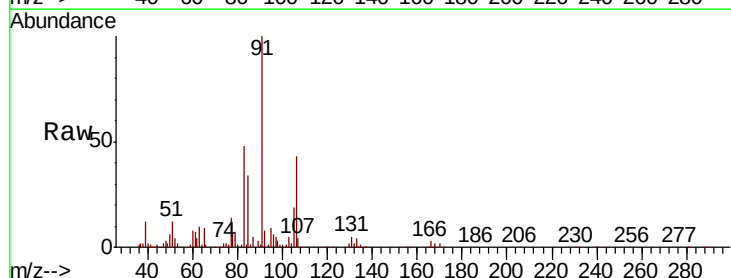
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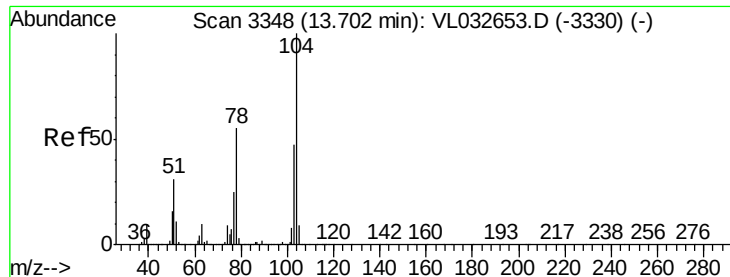
MMDadoda
10/24/2018 12:06:56 PM



#60
o-Xylene
Concen: 1.053 ppbv
RT: 13.87 min Scan# 3399
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion: 91 Resp: 381095
Ion Ratio Lower Upper
91 100
106 43.3 22.1 66.1





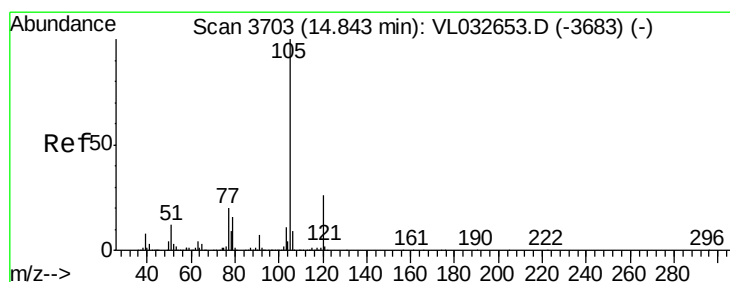
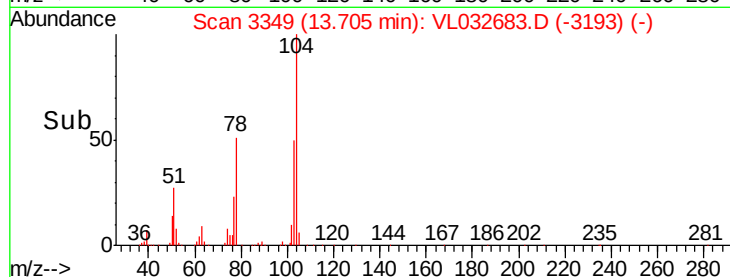
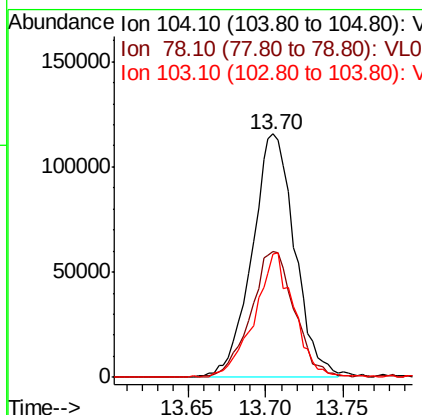
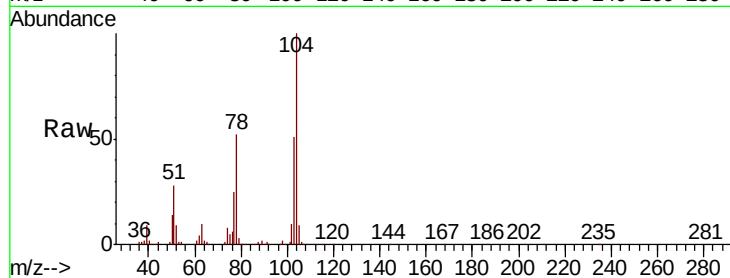
#61
Stvrene
Concen: 0.917 ppbv
RT: 13.70 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.8	64.2
103	47.8	37.4	56.0

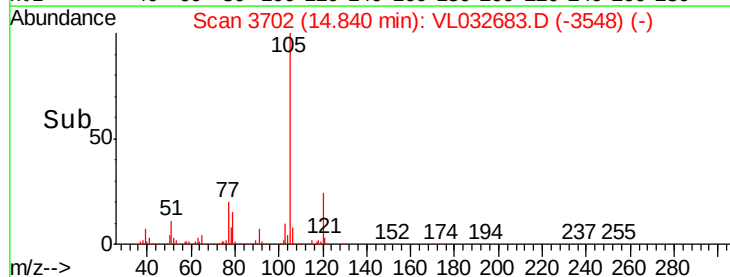
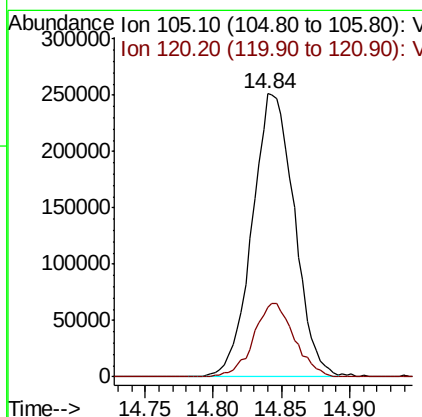
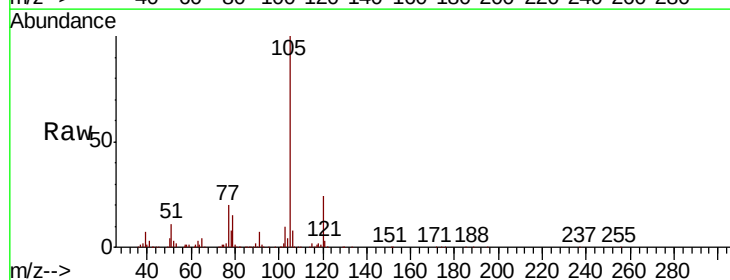
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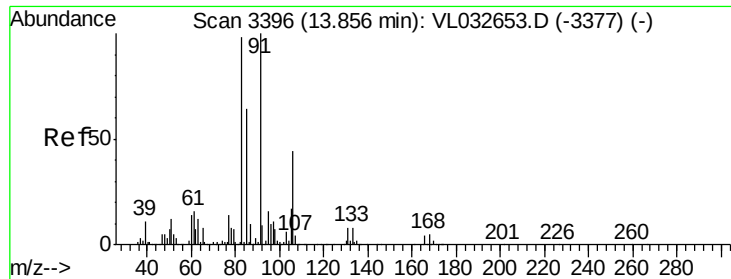
MMDadoda
10/24/2018 12:06:56 PM



#62
Isopropylbenzene
Concen: 1.052 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.5	30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 1.089 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 83 Resp: 308764

Ion Ratio Lower Upper

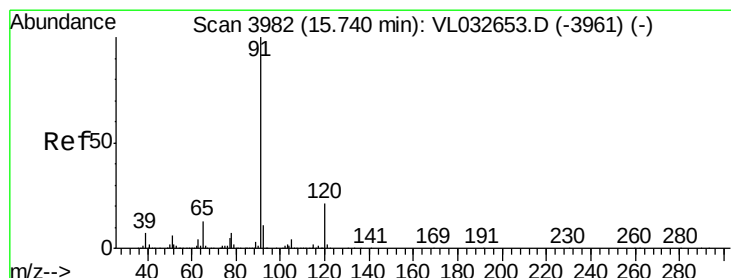
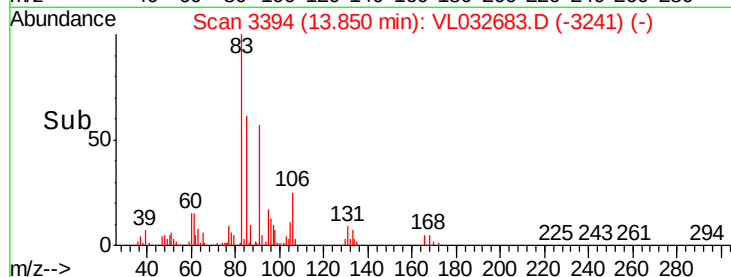
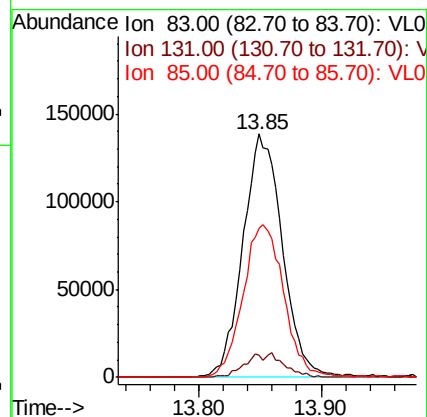
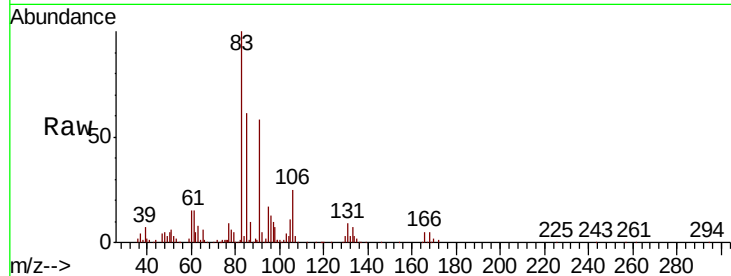
83 100

131 9.7 4.3 12.9

85 65.8 32.3 96.9

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#64

n-propylbenzene

Concen: 1.046 ppbv m

RT: 15.74 min Scan# 3981

Delta R.T. -0.00 min

Lab File: VL032683.D

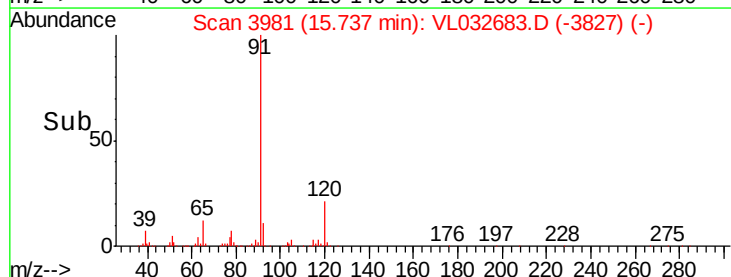
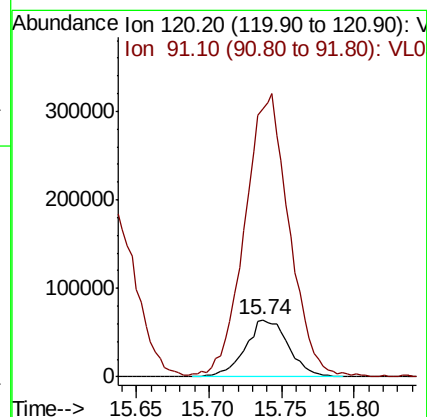
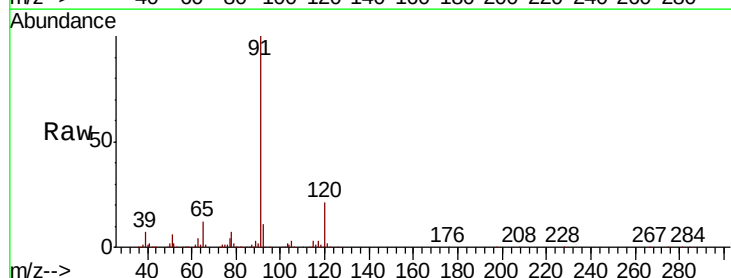
Acq: 19 Oct 2018 14:14

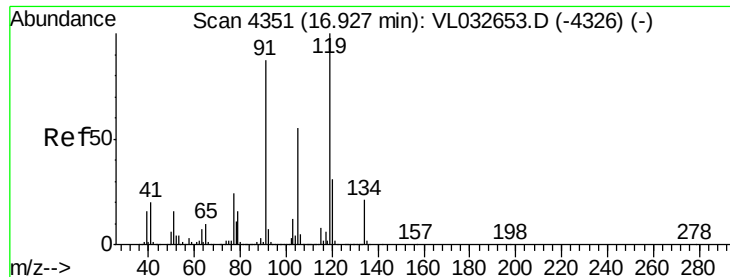
Tgt Ion: 120 Resp: 133157

Ion Ratio Lower Upper

120 100

91 515.7 390.2 585.2





#65

tert-Butylbenzene

Concen: 1.066 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

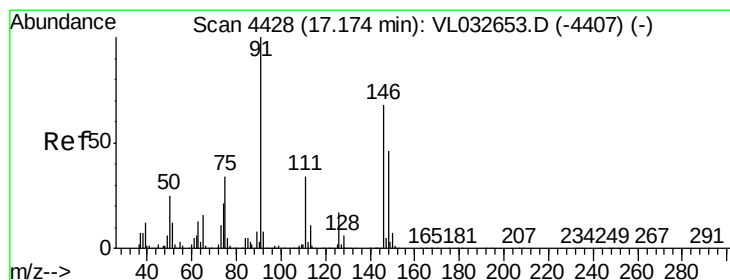
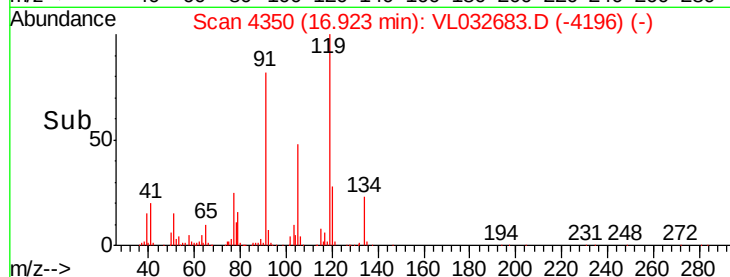
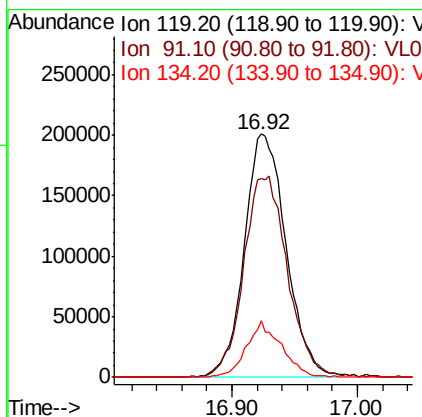
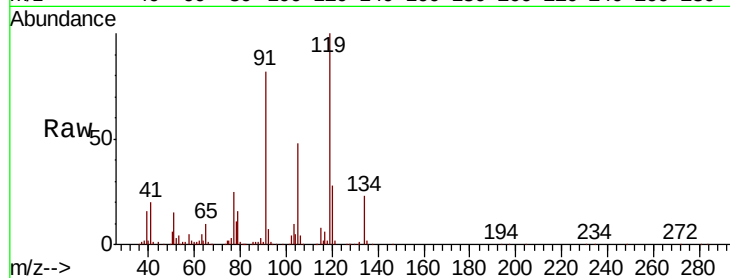
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion:	119	Resp:	465150
Ion Ratio	Lower	Upper	
119	100		
91	87.3	67.8	101.8
134	19.6	15.8	23.8

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.941 ppbv m

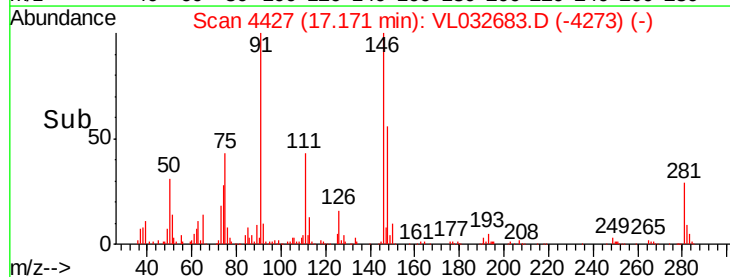
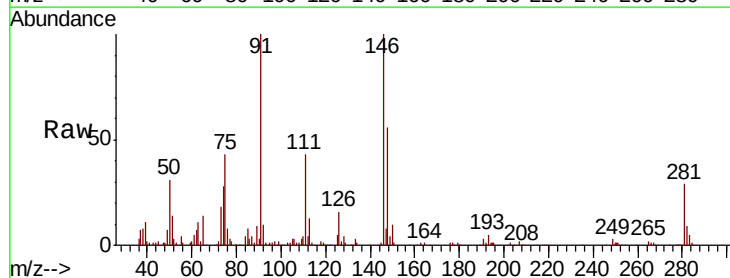
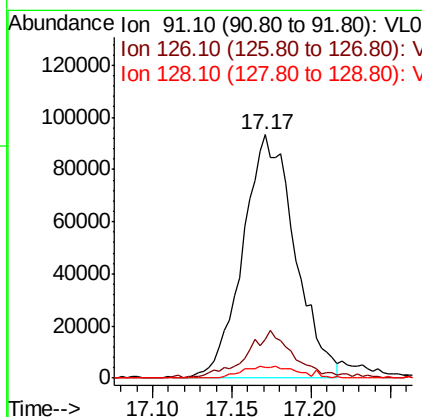
RT: 17.17 min Scan# 4427

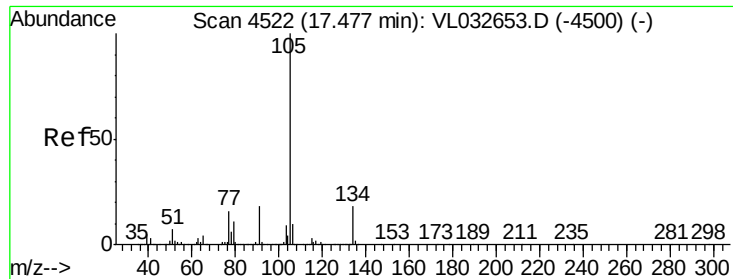
Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion:	91	Resp:	211929
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.9	20.9#
128	0.0	4.3	6.5#





#67

sec-Butylbenzene

Concen: 1.089 ppbv

RT: 17.48 min Scan# 4522

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 105 Resp: 675676

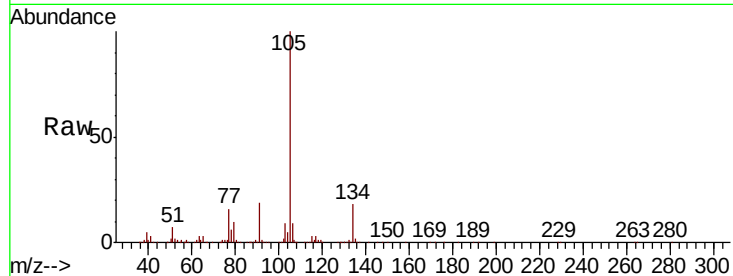
Ion Ratio Lower Upper

105 100

134 17.6 14.2 21.2

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.48

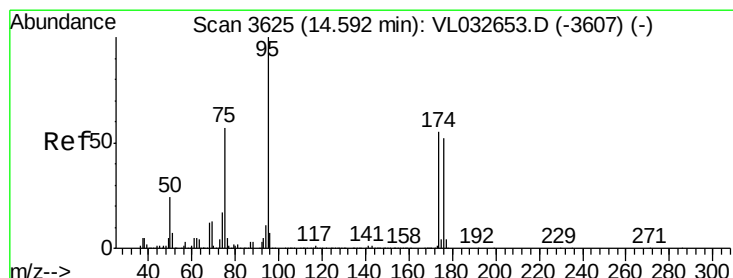
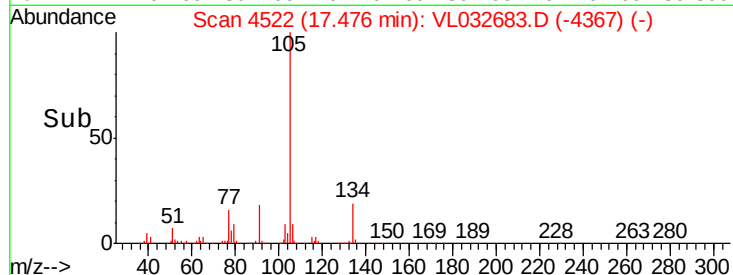
300000

200000

100000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.178 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

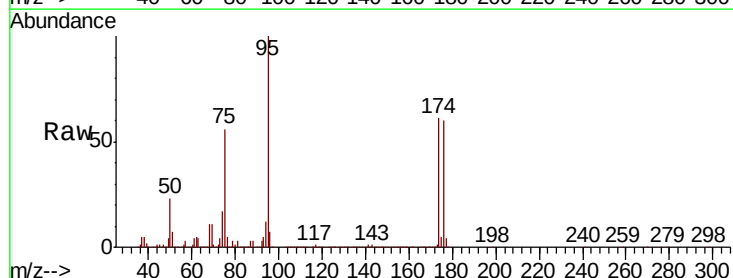
Tgt Ion: 95 Resp: 2748862

Ion Ratio Lower Upper

95 100

174 62.7 46.0 69.0

175 4.8 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.59

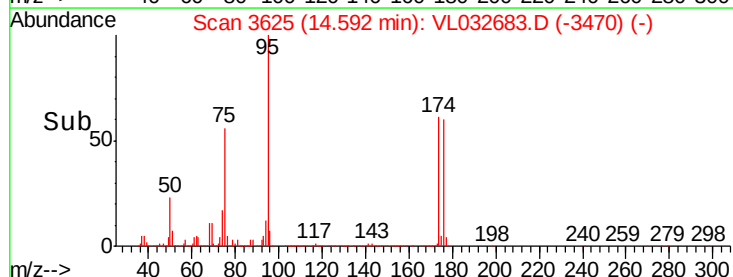
1500000

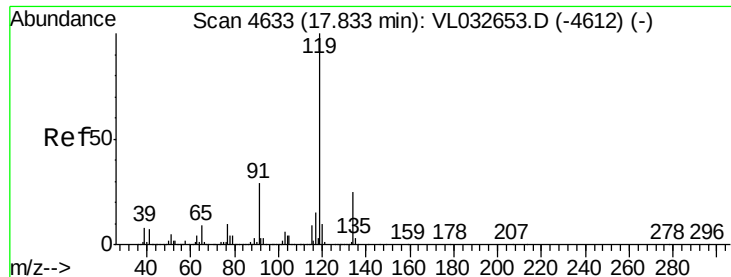
1000000

500000

0

Time-->





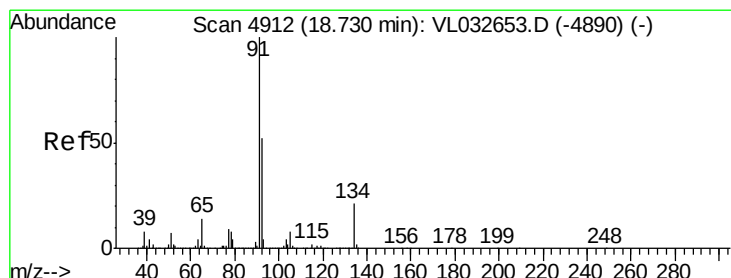
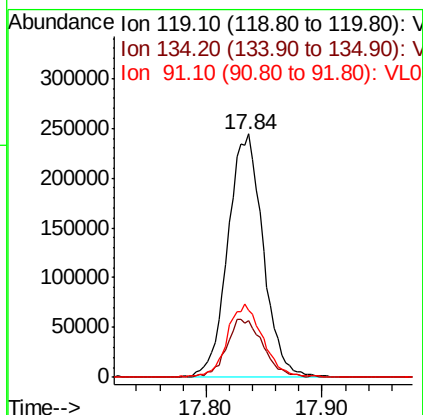
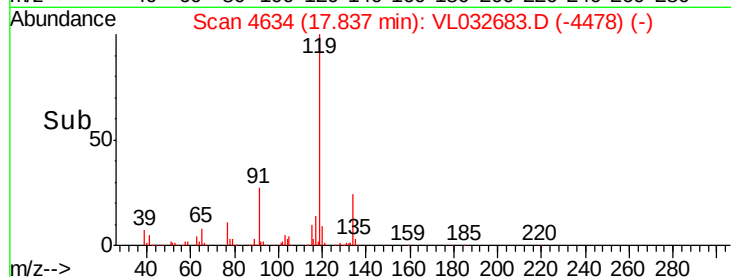
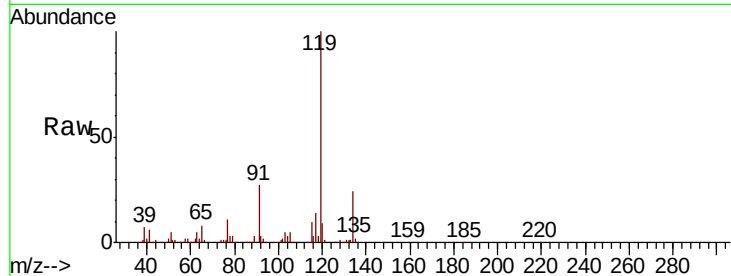
#69
p-Isopropyltoluene
Concen: 1.035 ppbv
RT: 17.84 min Scan# 4634
Delta R.T. 0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	508824		
134	25.0		20.2	30.2
91	30.5		24.0	36.0

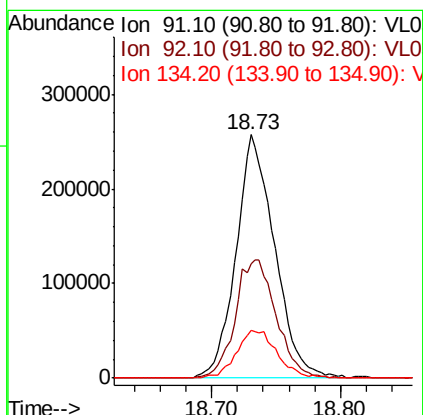
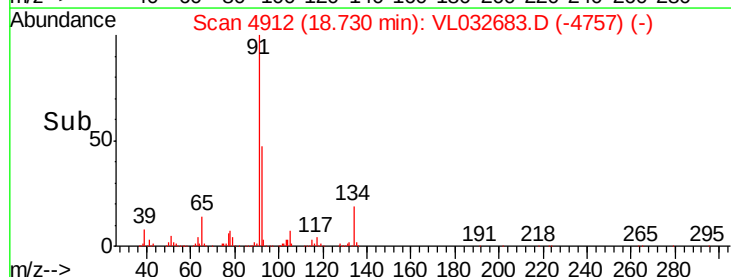
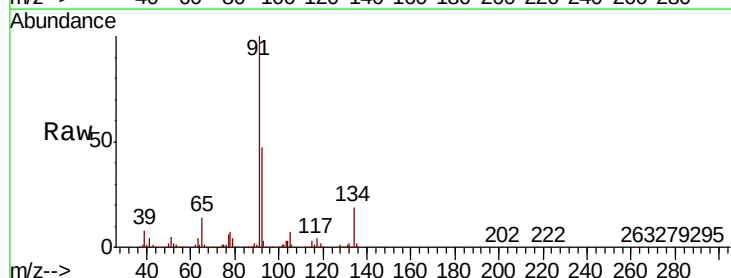
Manual Integrations
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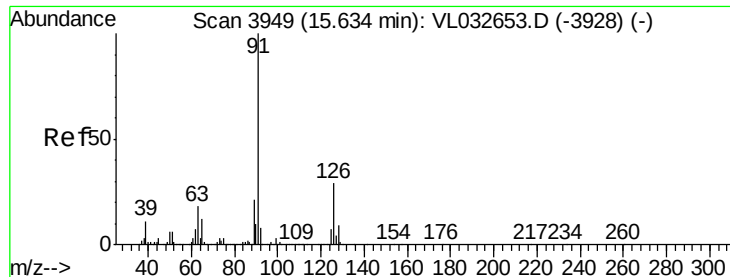
MMDadoda
10/24/2018 12:06:56 PM



#70
n-Butylbenzene
Concen: 1.048 ppbv
RT: 18.73 min Scan# 4912
Delta R.T. -0.00 min
Lab File: VL032683.D
Acq: 19 Oct 2018 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	530560		
92	52.2		43.0	64.4
134	21.1		17.0	25.6





#71

2-Chlorotoluene

Concen: 1.003 ppbv

RT: 15.64 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion: 91 Resp: 365177

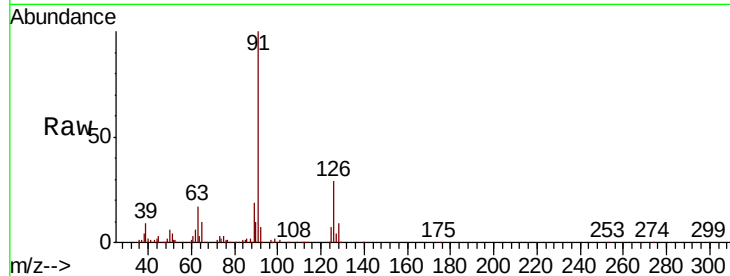
Ion Ratio Lower Upper

91 100

126 29.4 11.8 47.4

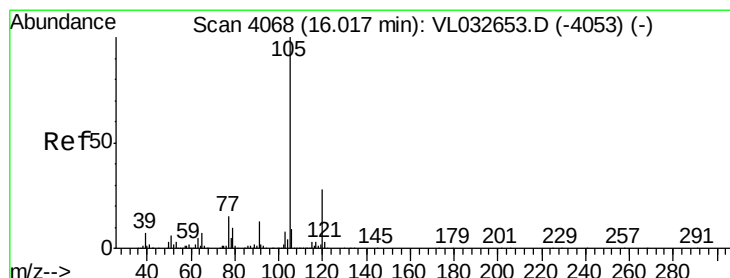
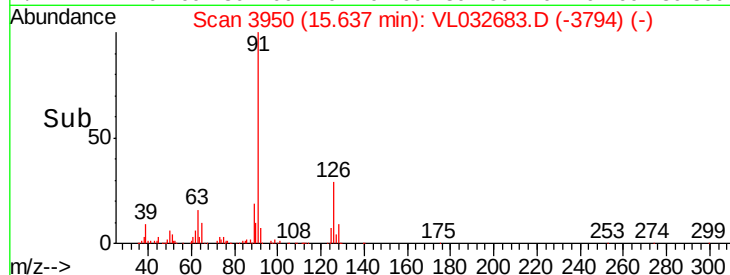
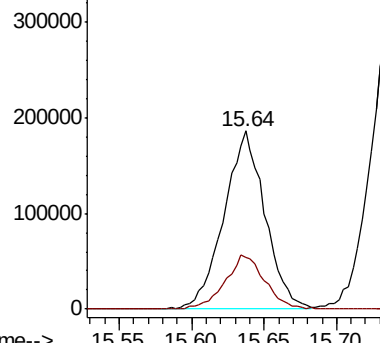
Manual Integrations
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10/24/2018 12:06:56 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 1.017 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion: 105 Resp: 391894

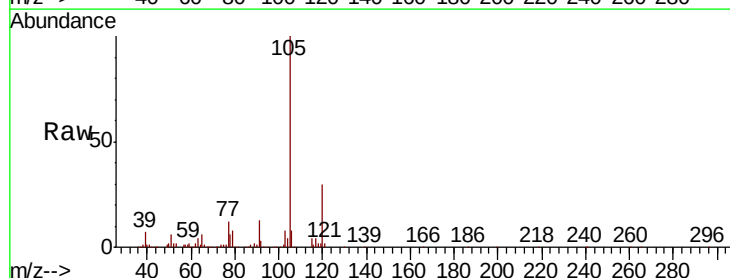
Ion Ratio Lower Upper

105 100

120 28.8 23.7 35.5

91 16.2 10.4 15.6#

77 14.8 11.4 17.2

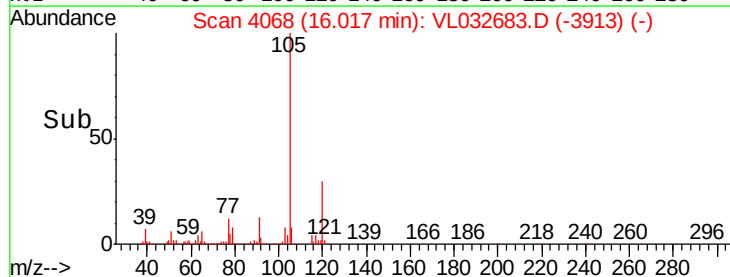
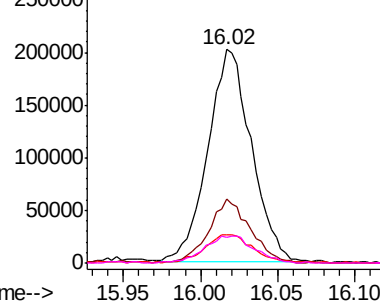


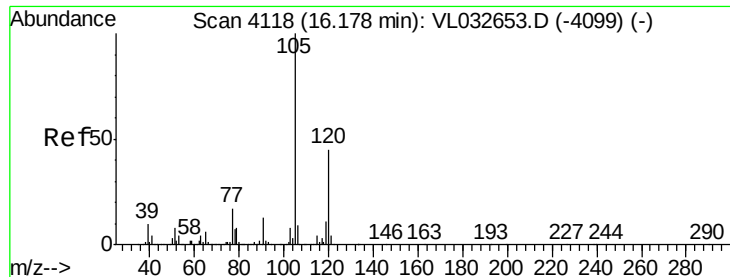
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 1.053 ppbv

RT: 16.17 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion:105 Resp: 395270

Ion Ratio Lower Upper

105 100

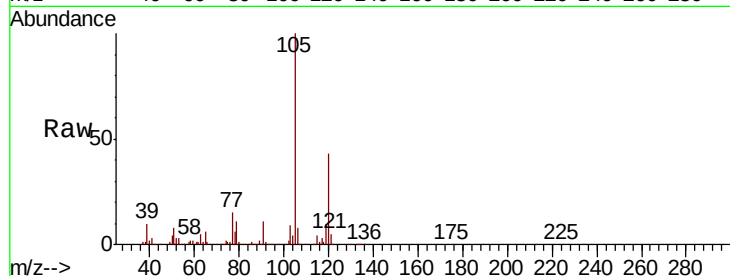
120 43.5 35.4 53.2

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.17

200000

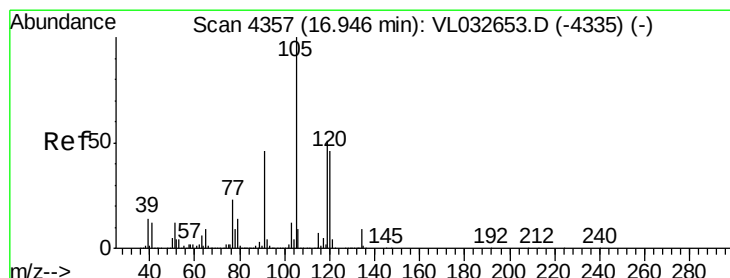
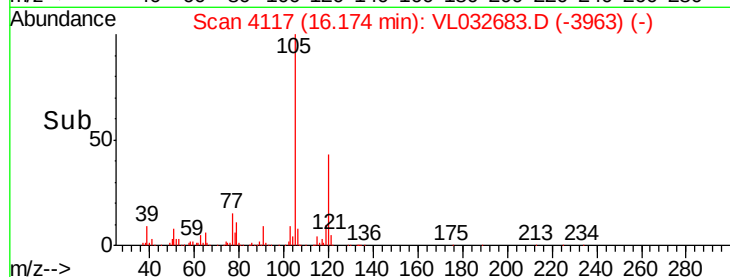
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.097 ppbv

RT: 16.94 min Scan# 4356

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion:105 Resp: 439766

Ion Ratio Lower Upper

105 100

120 43.5 35.8 53.8

91 49.9 33.2 49.8#

77 20.8 16.2 24.4

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

300000

250000

200000

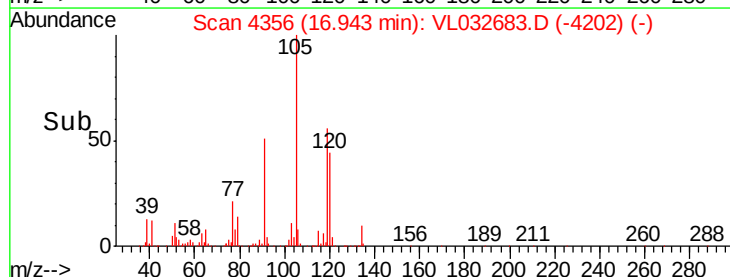
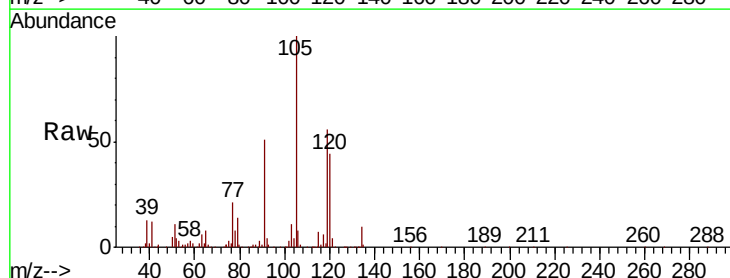
150000

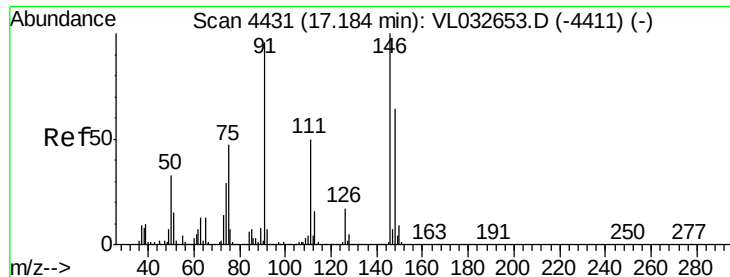
100000

50000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 1.125 ppbv

RT: 17.18 min Scan# 4431

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

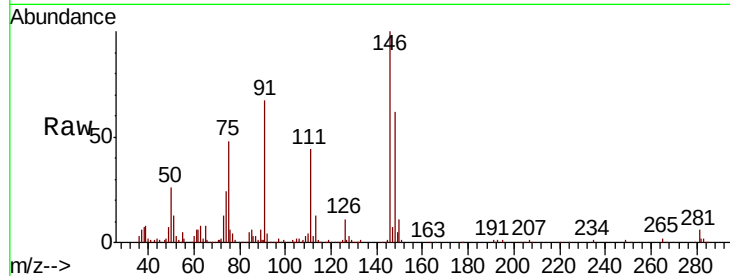
ClientSampleId :

LOQ-AIR-02-QT4-2018

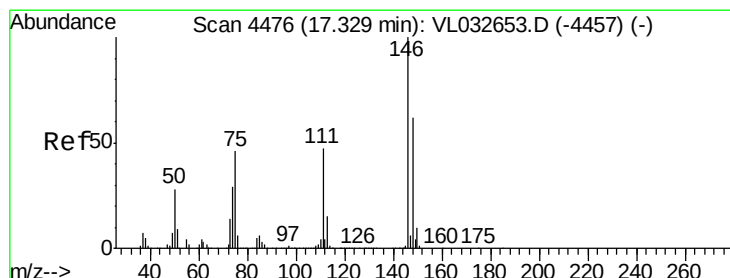
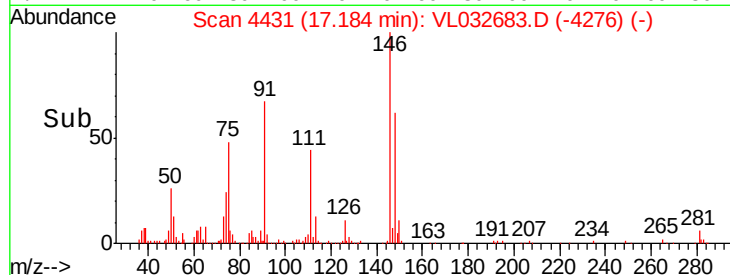
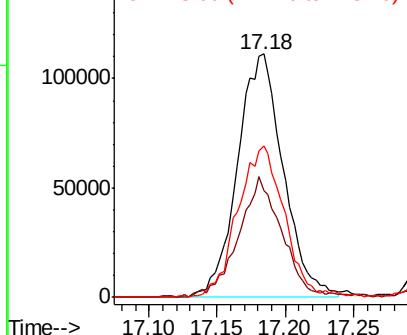
Tot Ion:	146	Resp:	259418
Ion Ratio	Lower	Upper	
146	100		
111	47.6	24.4	73.2
148	63.7	31.9	95.9

Manual Integrations
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10/24/2018 12:06:56 PM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 1.028 ppbv

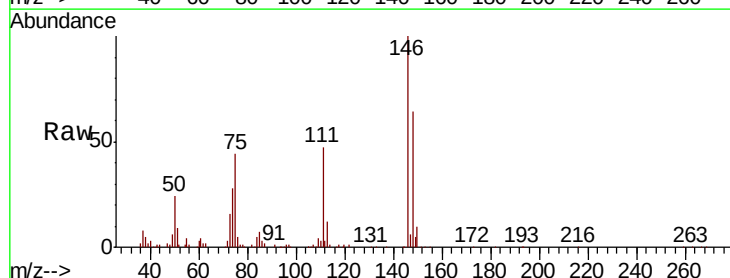
RT: 17.33 min Scan# 4475

Delta R.T. -0.00 min

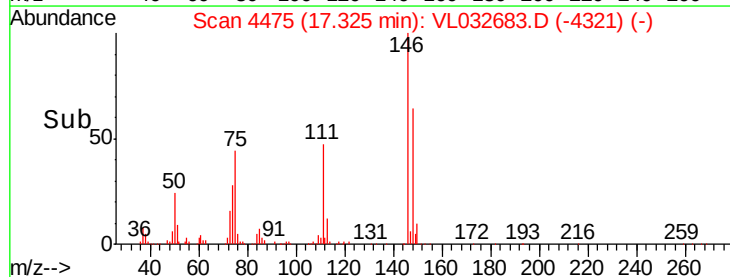
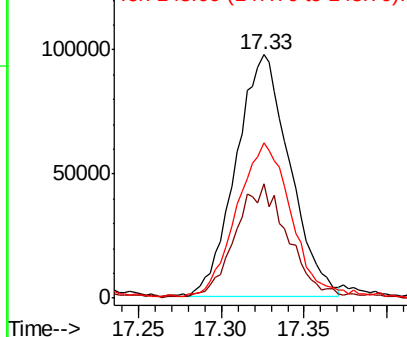
Lab File: VL032683.D

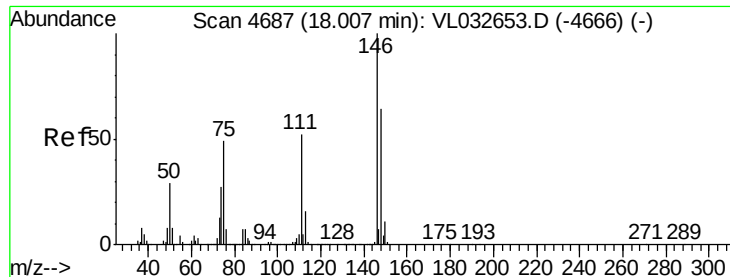
Acq: 19 Oct 2018 14:14

Tgt Ion:	146	Resp:	218668
Ion Ratio	Lower	Upper	
146	100		
111	47.7	23.7	71.1
148	67.7	32.1	96.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 1.064 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. -0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

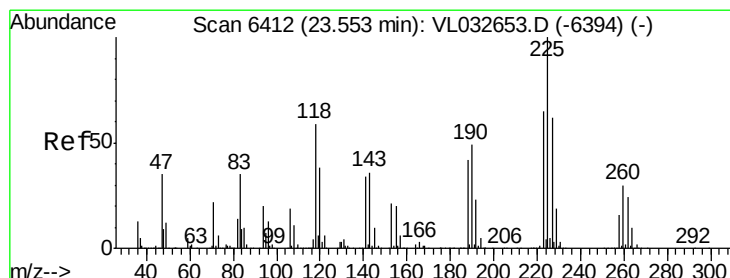
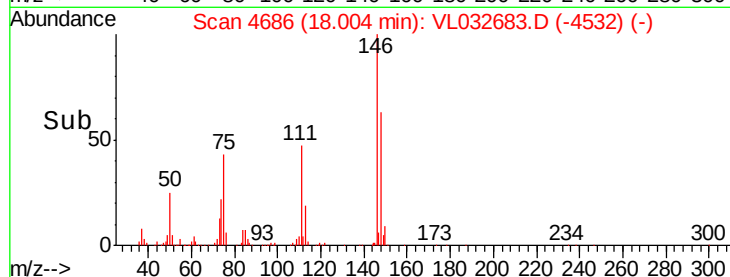
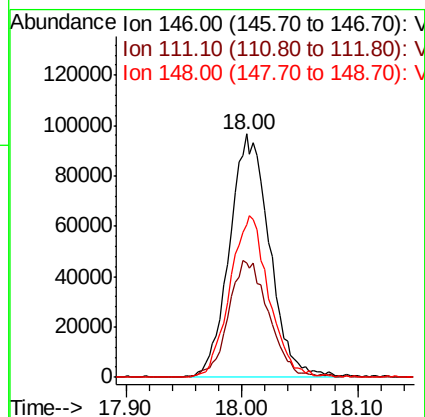
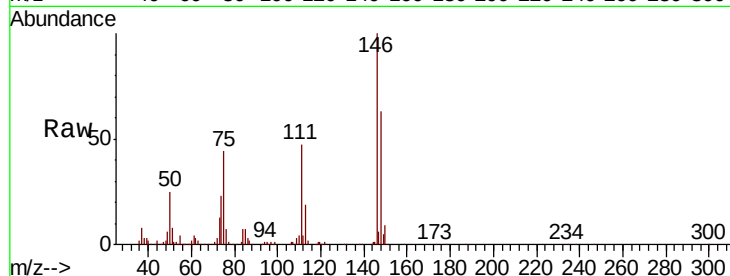
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion:	146	Resp:	232532
Ion Ratio	Lower	Upper	
146	100		
111	0.0	25.3	75.8#
148	65.2	31.9	95.9

Manual Integrations
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MMDadoda
10/24/2018 12:06:56 PM



#78

Hexachloro-1,3-Butadiene

Concen: 1.060 ppbv

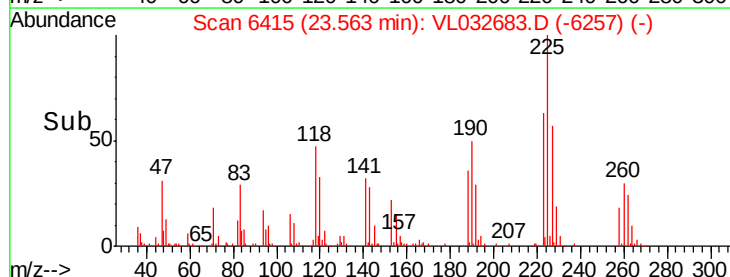
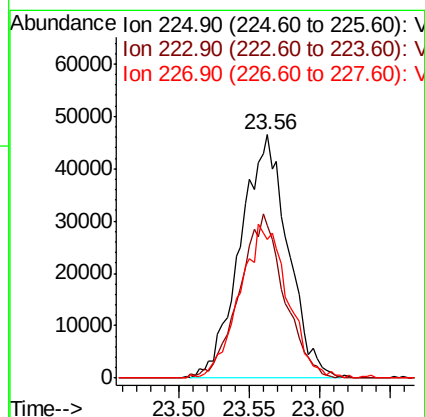
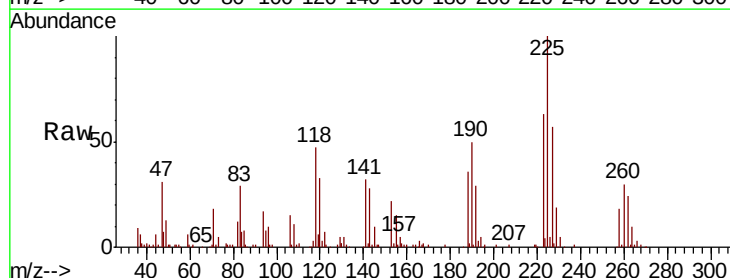
RT: 23.56 min Scan# 6415

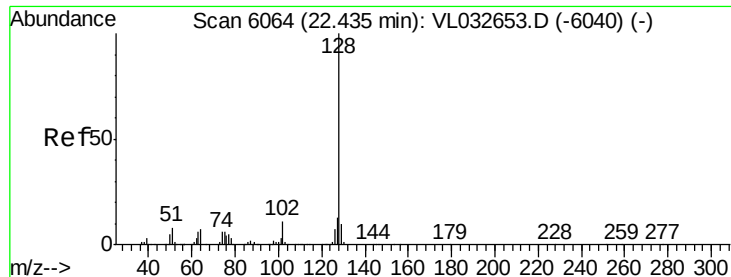
Delta R.T. 0.01 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion:	225	Resp:	109416
Ion Ratio	Lower	Upper	
225	100		
223	63.7	50.7	76.1
227	64.0	50.7	76.1





#79

Naphthalene

Concen: 0.645 ppbv m

RT: 22.44 min Scan# 6065

Delta R.T. 0.00 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Instrument :

MSVOA_L

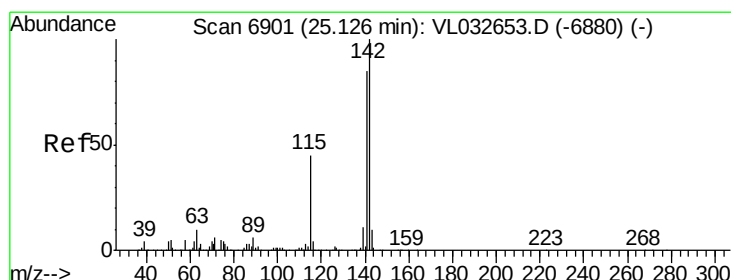
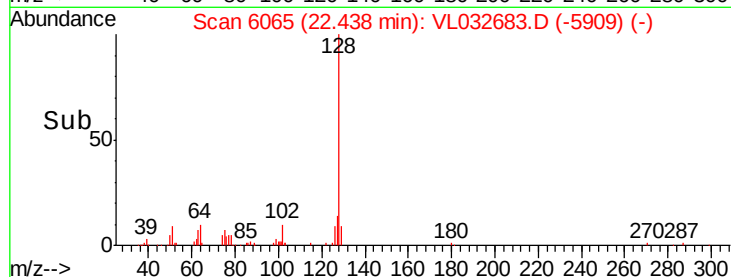
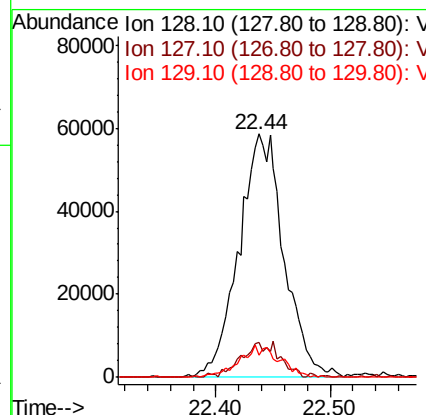
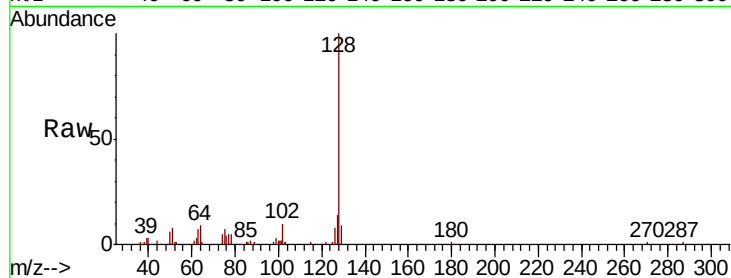
ClientSampleId :

LOQ-AIR-02-QT4-2018

Tot Ion:	128	Resp:	160673
Ion Ratio	Lower	Upper	
128	100		
127	14.3	10.3	15.5
129	9.3	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/24/2018 12:06:56 PM



#80

Naphthalene, 2-methyl-

Concen: 0.135 ppbv

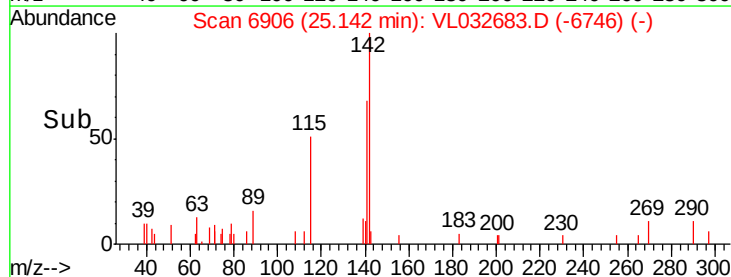
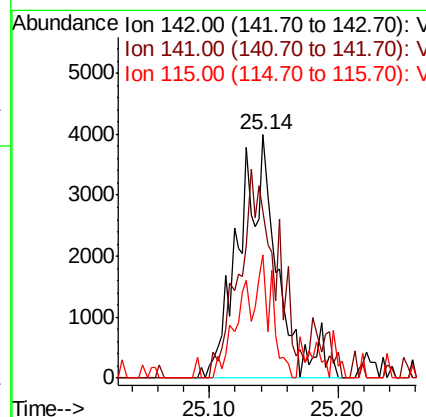
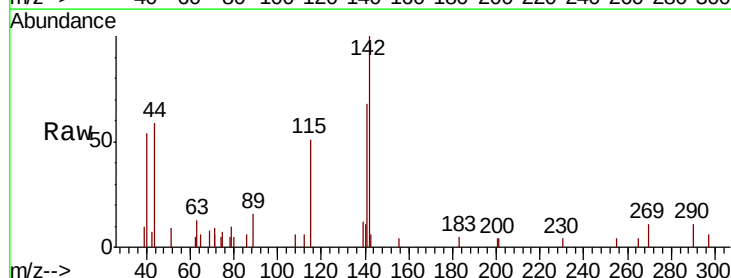
RT: 25.14 min Scan# 6906

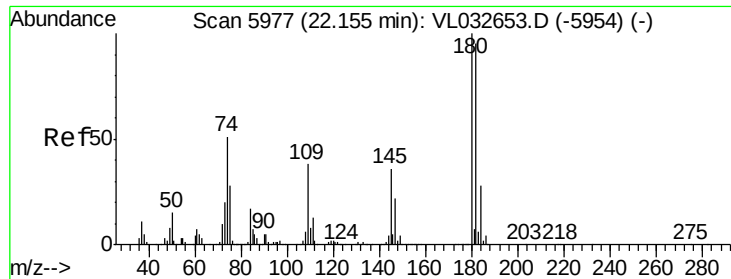
Delta R.T. 0.02 min

Lab File: VL032683.D

Acq: 19 Oct 2018 14:14

Tgt Ion:	142	Resp:	8161
Ion Ratio	Lower	Upper	
142	100		
141	83.0	67.5	101.3
115	39.4	33.5	50.3





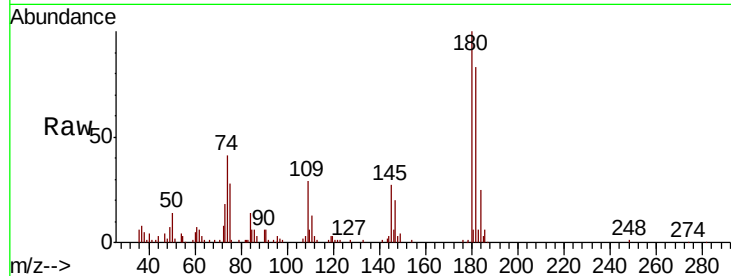
#81
 1,2,4-Trichlorobenzene
 Concen: 0.753 ppbv m
 RT: 22.16 min Scan# 5980
 Delta R.T. 0.01 min
 Lab File: VL032683.D
 Acq: 19 Oct 2018 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.5	114.7
184	29.9	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:06:56 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

