

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032261.D
 Acq On : 18 Jul 2018 10:38
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:04 PM

Quant Time: Jul 18 12:47:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18
 QLast Update : Wed Jul 18 09:58:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1730067	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3742970	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4332549	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3378711	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	319972	1.28	ppbv	99
3) Chlorodifluoromethane	3.06	51	202986	0.95	ppbv	98
4) Chloromethane	3.22	50	119926	0.99	ppbv	96
5) Vinyl Chloride	3.35	62	109291	0.92	ppbv	96
6) Bromomethane	3.57	94	60470	0.91	ppbv	93
7) Chloroethane	3.66	64	39376	0.96	ppbv	98
8) Dichlorotetrafluoroethane	3.27	85	269424	0.98	ppbv	97
9) Propene	3.09	41	83379	0.92	ppbv	99
10) Heptane	8.33	43	298310	1.16	ppbv	97
11) Trichlorofluoromethane	4.07	101	253074	1.06	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	158992	1.04	ppbv	98
13) Ethanol	3.72	45	28025	1.07	ppbv	94
14) Bromoethene	3.85	108	68301	0.95	ppbv	92
15) Acetone	3.97	43	192610	0.96	ppbv	99
16) 1,3-Butadiene	3.42	39	90948	0.90	ppbv	93
17) tert-Butyl alcohol	4.45	59	58479m	0.62	ppbv	
18) 1,1-Dichloroethene	4.42	96	69548	0.98	ppbv	84
19) Isopropyl Alcohol	4.10	45	133554	1.01	ppbv #	94
20) Methylene Chloride	4.48	84	76305	1.12	ppbv	93
21) Allyl Chloride	4.55	41	117643	1.00	ppbv	94
22) trans-1,2-Dichloroethene	5.04	96	72776	1.08	ppbv #	87
23) Vinyl Acetate	5.23	43	323459	0.97	ppbv #	97
24) 1,1-Dichloroethane	5.16	63	252995	1.08	ppbv	98
25) Ethyl Acetate	5.85	43	409693	1.03	ppbv	99
26) Hexane	5.86	57	192250	1.06	ppbv	97
27) Carbon Disulfide	4.69	76	156490	0.97	ppbv #	88
28) Methyl tert-Butyl Ether	5.19	73	276599	0.97	ppbv	99
29) Chloroform	5.92	83	279863	1.00	ppbv	96
30) Cyclohexane	7.33	84	154974m	0.97	ppbv	
31) cis-1,2-Dichloroethene	5.71	61	180720	1.00	ppbv	96
32) 1,1,1-Trichloroethane	6.70	97	274819	1.01	ppbv	98
34) 2-Butanone	5.41	43	266637	1.05	ppbv	100
35) Carbon Tetrachloride	7.21	117	270037	1.07	ppbv	97
36) Benzene	7.09	78	386966	1.04	ppbv	99
37) 1,2-Dichloroethane	6.49	62	240767	1.18	ppbv	100
38) Trichloroethene	8.04	130	128194	1.00	ppbv	92
39) 1,2-Dichloropropane	7.82	63	152018	1.03	ppbv	97
40) 1,4-Dioxane	8.08	88	51209m	1.01	ppbv	
41) Tetrahydrofuran	6.24	42	151483	1.06	ppbv	99
42) Bromodichloromethane	8.00	83	286214	0.99	ppbv	92
43) Methyl Methacrylate	8.22	69	154197	1.07	ppbv	99

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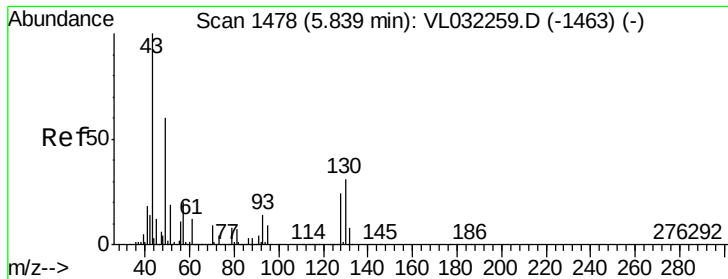
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	707180	1.11	ppbv	99
45) t-1,3-Dichloropropene	9.50	75	148159	0.87	ppbv	89
46) cis-1,3-Dichloropropene	8.92	75	237706	1.02	ppbv	96
47) 1,1,2-Trichloroethane	9.70	97	186538	1.13	ppbv	96
48) Dibromochloromethane	10.54	129	253296	1.03	ppbv	98
49) Bromoform	13.29	173	210587	1.07	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	469978	1.07	ppbv	97
51) 2-Hexanone	10.38	43	330613	0.90	ppbv #	98
52) Tetrachloroethene	11.47	164	139859	1.02	ppbv	91
53) Toluene	10.04	91	465942	1.06	ppbv	98
54) 1,2-Dibromoethane	10.85	107	255408	1.05	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.37	131	210707	1.12	ppbv #	1
57) Chlorobenzene	12.39	112	396376	1.08	ppbv	98
58) Ethyl Benzene	12.96	91	645721	1.02	ppbv	98
59) m/p-Xylene	13.24	91	1125101m	2.17	ppbv	
60) o-Xylene	13.94	91	569197	1.11	ppbv	99
61) Styrene	13.78	104	399376	1.04	ppbv	99
62) Isopropylbenzene	14.92	105	802015	1.12	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.93	83	471650	1.13	ppbv	98
64) n-propylbenzene	15.81	120	198311	1.09	ppbv	82
65) tert-Butylbenzene	17.00	119	701157	1.17	ppbv	98
66) Benzyl Chloride	17.25	91	324970	1.07	ppbv	97
67) sec-Butylbenzene	17.55	105	1029542	1.17	ppbv	99
69) p-Isopropyltoluene	17.91	119	783095m	1.14	ppbv	
70) n-Butylbenzene	18.81	91	907013	1.20	ppbv	99
71) 2-Chlorotoluene	15.71	91	630144	1.11	ppbv	98
72) 4-Ethyltoluene	16.09	105	626061	1.09	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	622974	1.17	ppbv	98
74) 1,2,4-Trimethylbenzene	17.01	105	686818	1.26	ppbv	94
75) 1,3-Dichlorobenzene	17.25	146	382639	1.17	ppbv	99
76) 1,4-Dichlorobenzene	17.39	146	370657m	1.16	ppbv	
77) 1,2-Dichlorobenzene	18.08	146	348821	1.08	ppbv	98
78) Hexachloro-1,3-Butadiene	23.62	225	124056	1.23	ppbv	98
79) Naphthalene	22.53	128	534579m	1.46	ppbv	
80) Naphthalene, 2-methyl-	25.19	142	194307	1.66	ppbv	98
81) 1,2,4-Trichlorobenzene	22.25	180	270609m	1.47	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1730067

Ion Ratio Lower Upper

49 100

128 40.4 20.1 60.2

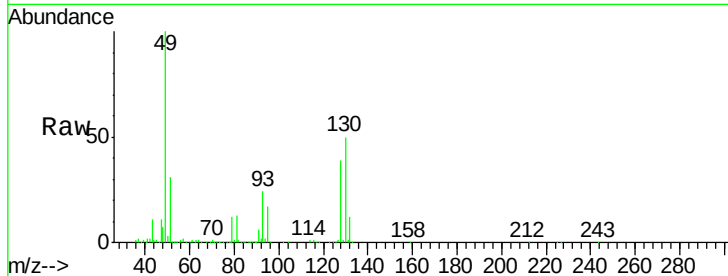
130 51.5 25.9 77.6

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.84

1200000

1000000

800000

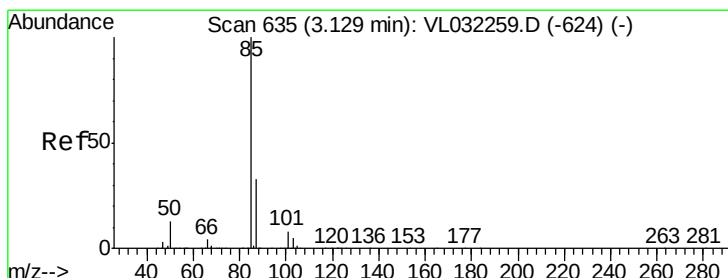
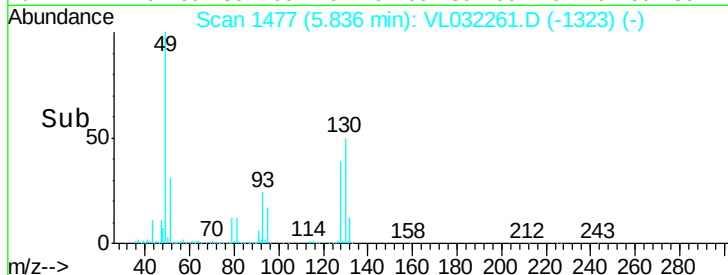
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.28 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032261.D

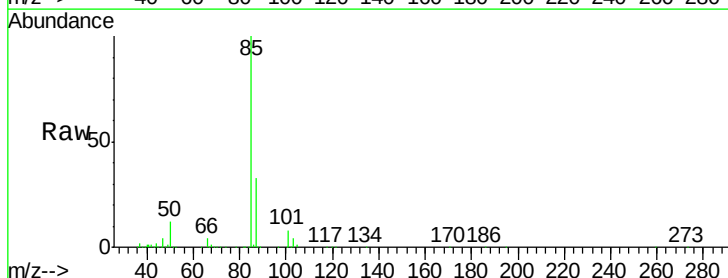
Acq: 18 Jul 2018 10:38

Tgt Ion: 85 Resp: 319972

Ion Ratio Lower Upper

85 100

87 33.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

250000

200000

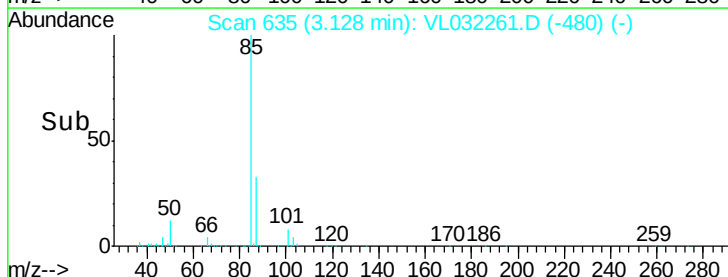
150000

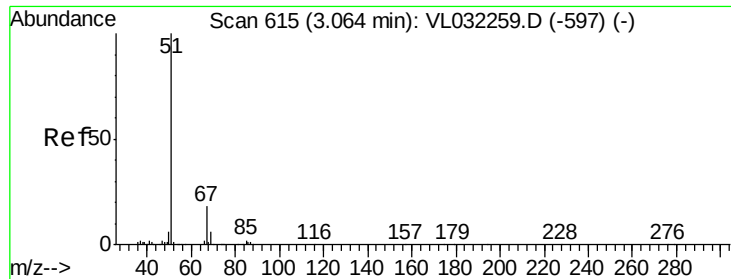
100000

50000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.95 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tot Ion: 51 Resp: 202986

Ion Ratio Lower Upper

51 100

67 17.1 14.2 21.4

Instrument :

MSVOA_L

ClientSampleId :

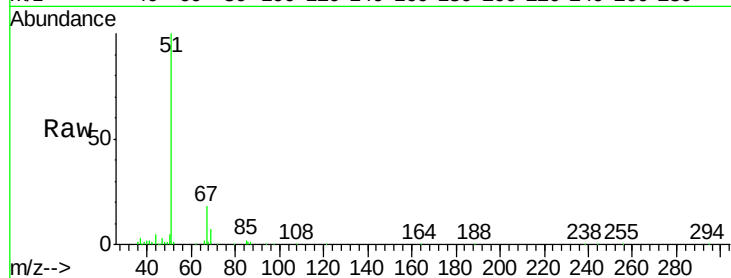
VSTDIC001

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

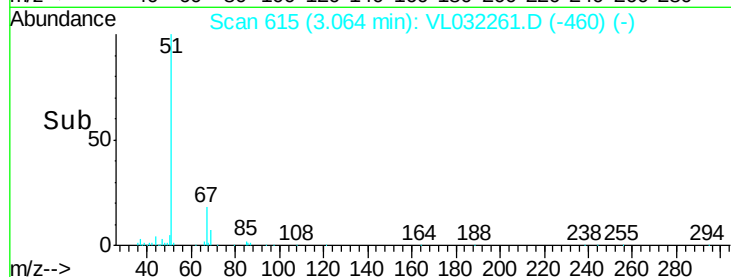
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100000

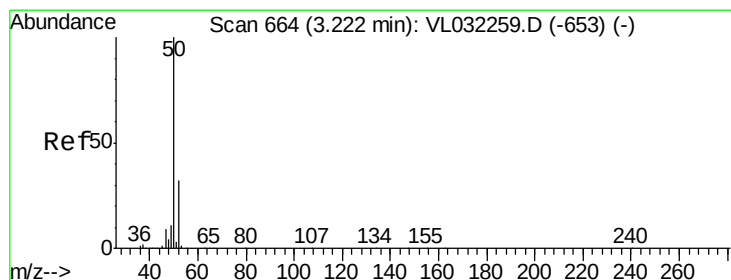
50000

0

Time-->



Time-->



#4

Chloromethane

Concen: 0.99 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032261.D

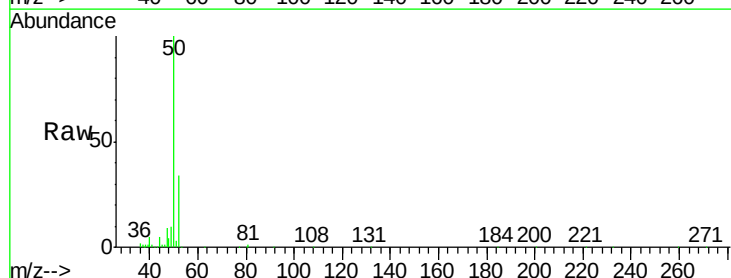
Acq: 18 Jul 2018 10:38

Tgt Ion: 50 Resp: 119926

Ion Ratio Lower Upper

50 100

52 33.7 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

80000

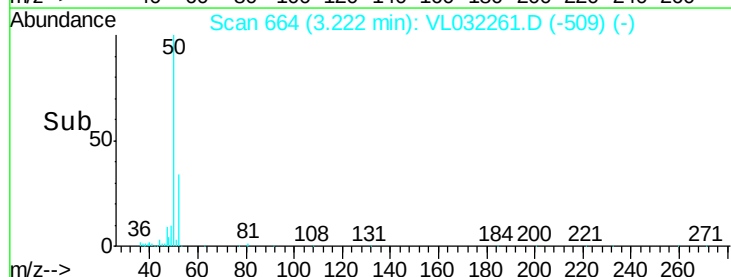
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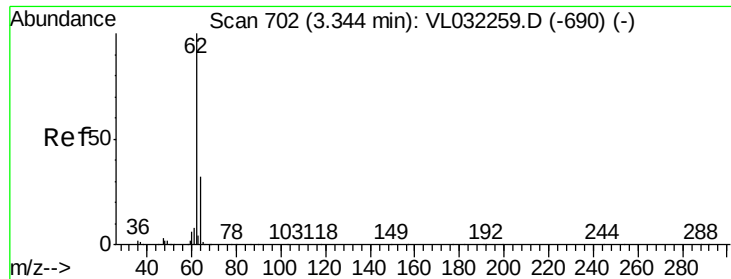
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 0.92 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 109291

Ion Ratio Lower Upper

62 100

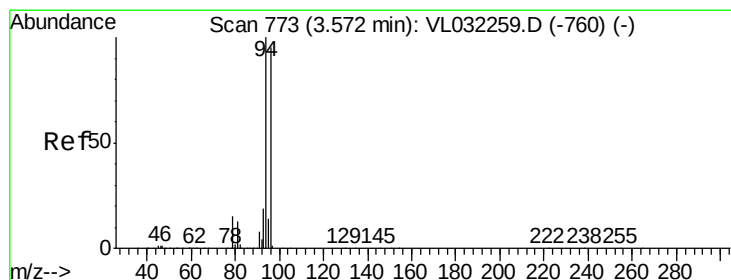
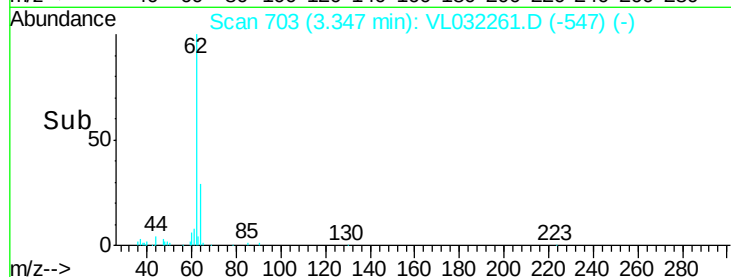
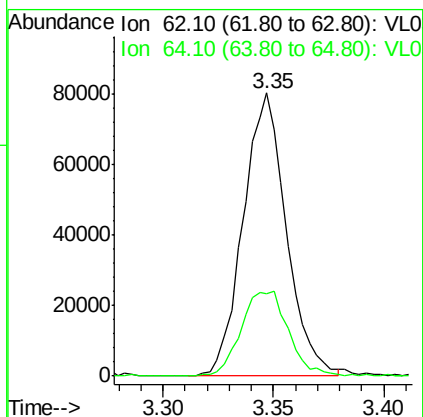
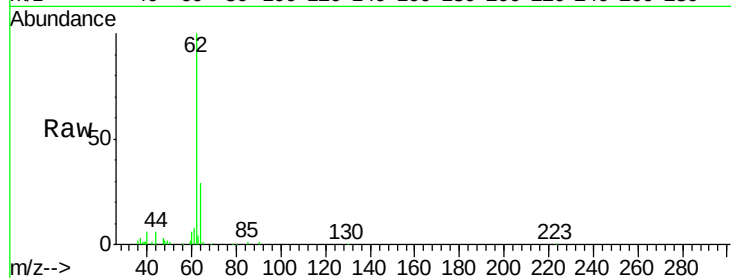
64 29.3 25.3 37.9

Manual Integrations

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#6

Bromomethane

Concen: 0.91 ppbv

RT: 3.57 min Scan# 773

Delta R.T. -0.00 min

Lab File: VL032261.D

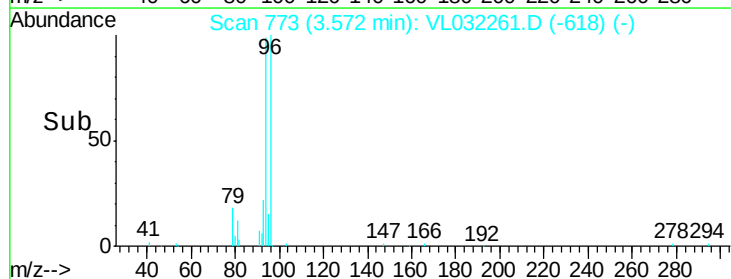
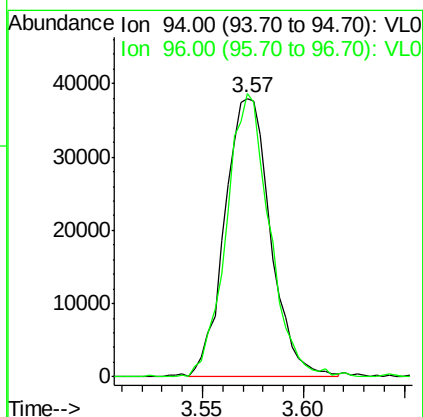
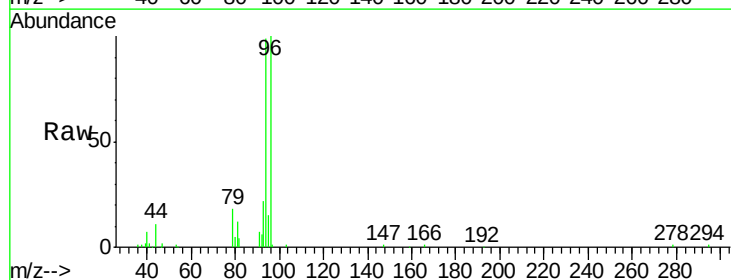
Acq: 18 Jul 2018 10:38

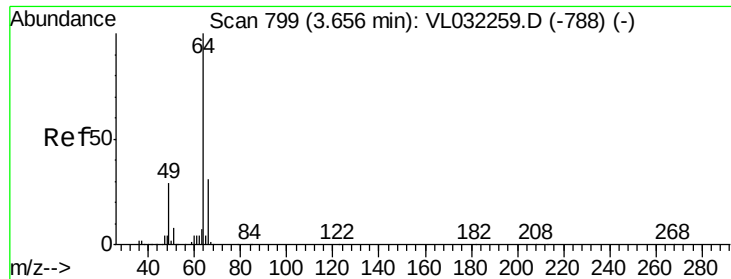
Tgt Ion: 94 Resp: 60470

Ion Ratio Lower Upper

94 100

96 101.5 76.1 114.1





#7

Chloroethane

Concen: 0.96 ppbv

RT: 3.66 min Scan# 801

Delta R.T. 0.01 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 39376

Ion Ratio Lower Upper

64 100

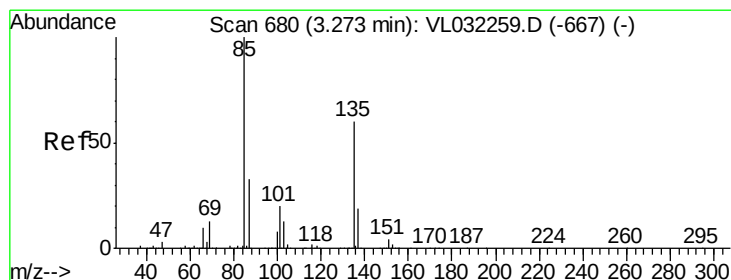
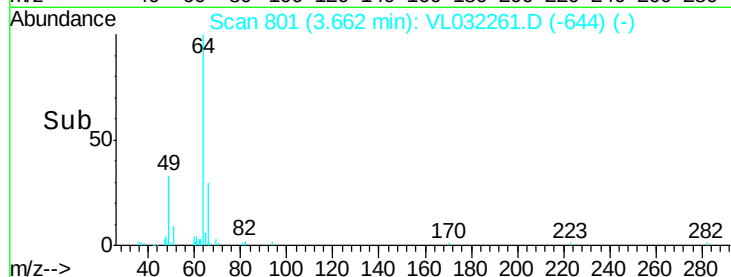
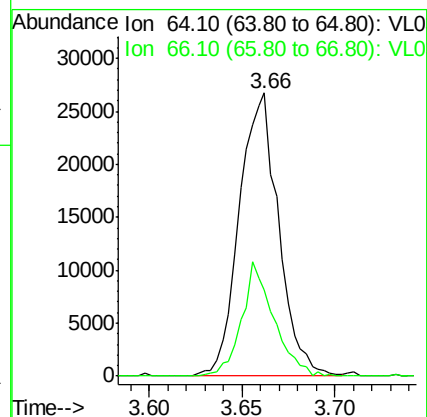
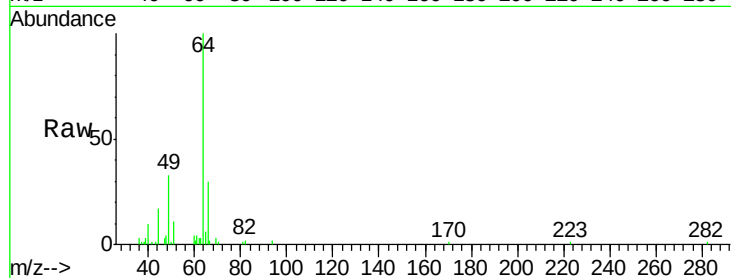
66 32.0 25.0 37.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.98 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032261.D

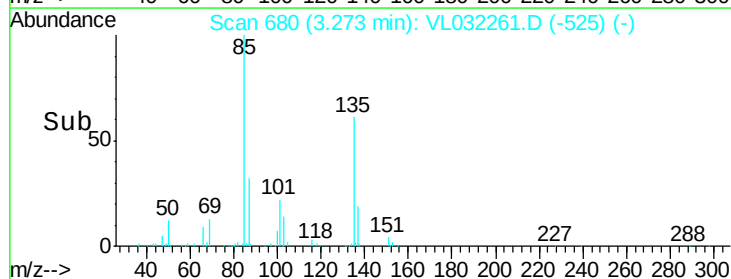
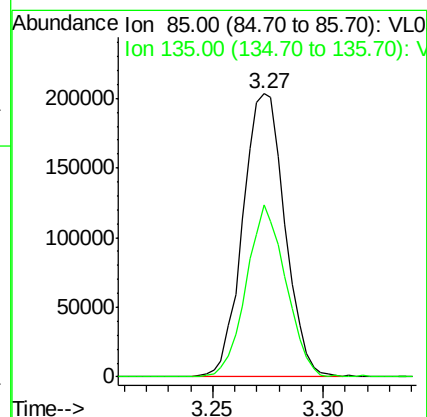
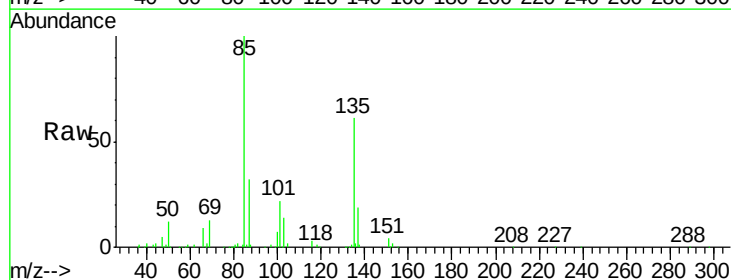
Acq: 18 Jul 2018 10:38

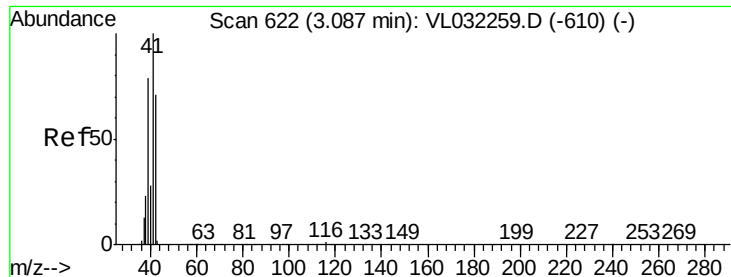
Tgt Ion: 85 Resp: 269424

Ion Ratio Lower Upper

85 100

135 57.3 47.8 71.8





#9

Propene

Concen: 0.92 ppbv

RT: 3.09 min Scan# 623

Delta R.T. 0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 83379

Ion Ratio Lower Upper

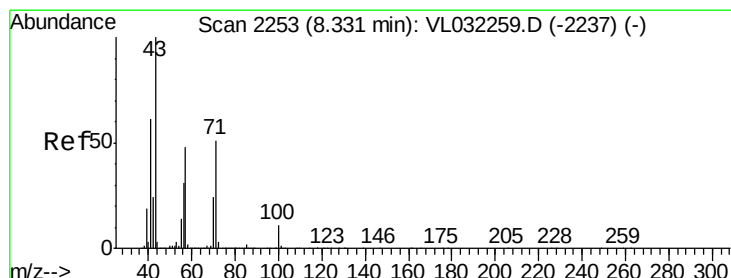
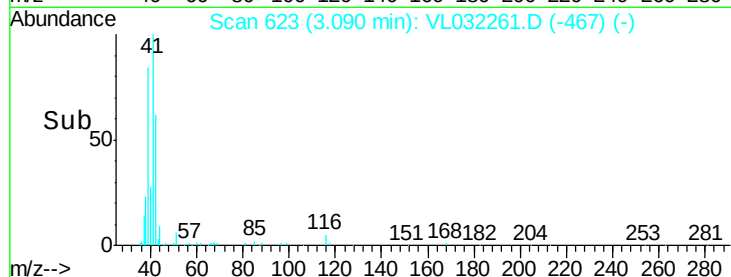
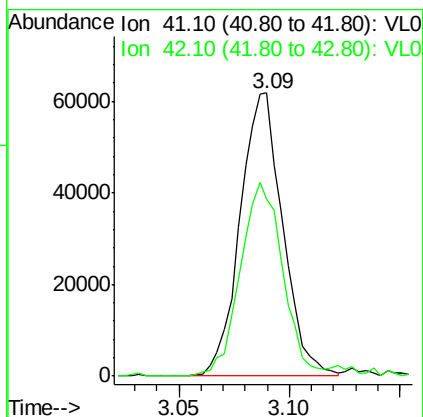
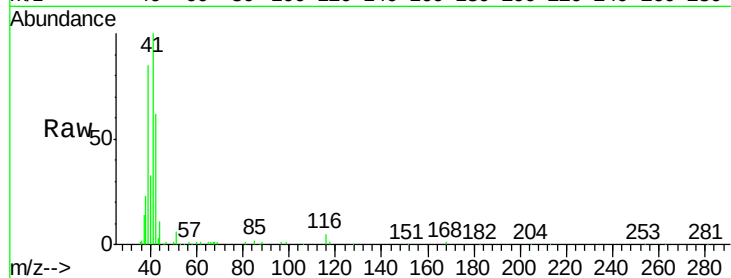
41 100

42 71.3 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 1.16 ppbv

RT: 8.33 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VL032261.D

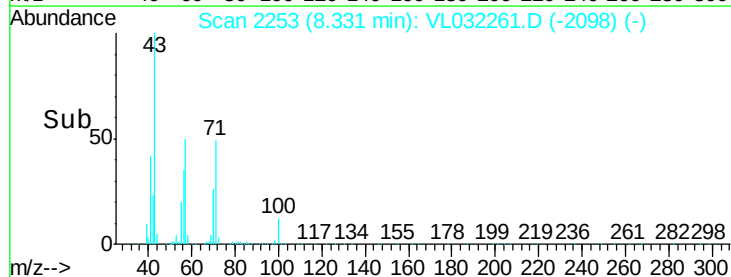
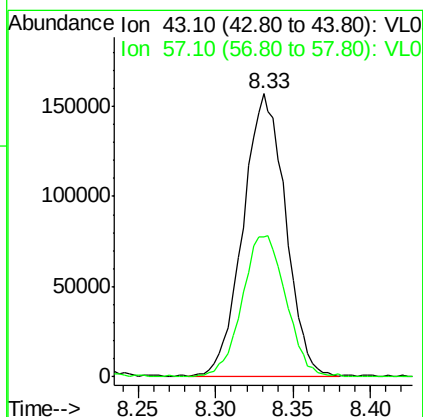
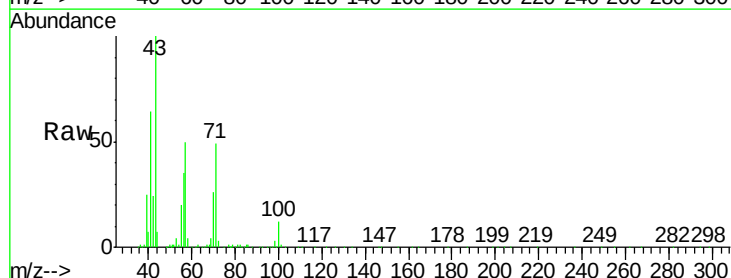
Acq: 18 Jul 2018 10:38

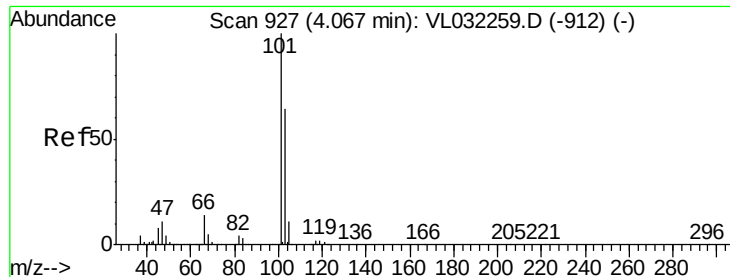
Tgt Ion: 43 Resp: 298310

Ion Ratio Lower Upper

43 100

57 51.7 39.9 59.9





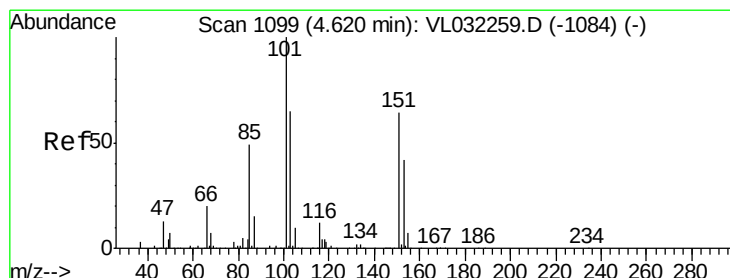
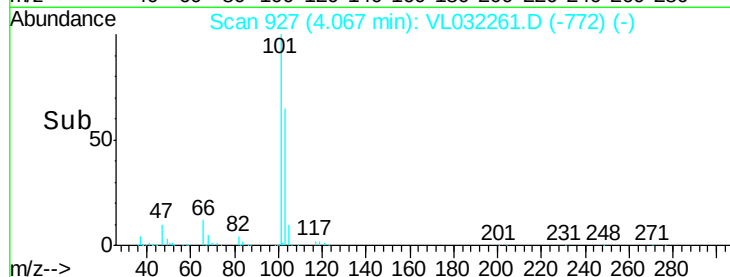
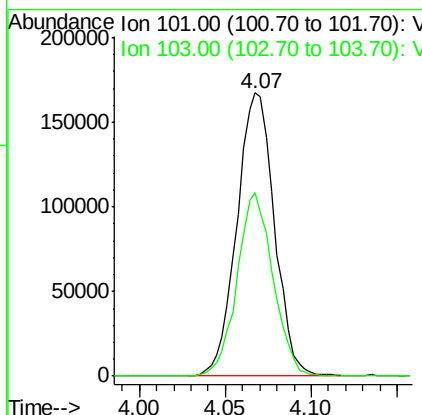
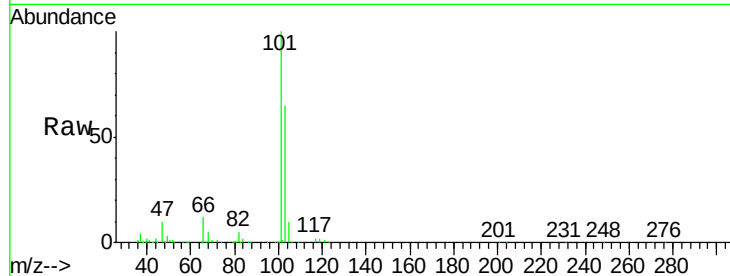
#11
 Trichlorofluoromethane
 Concen: 1.06 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.5	77.3

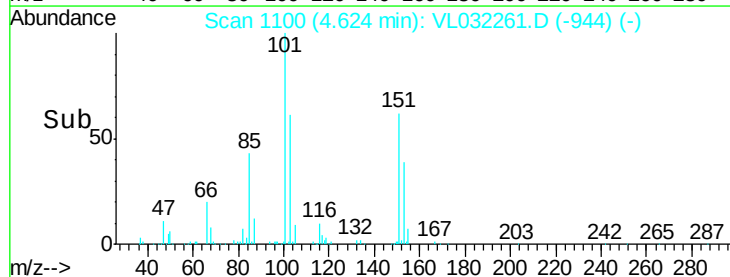
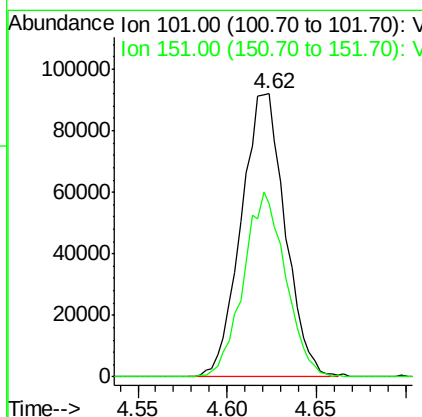
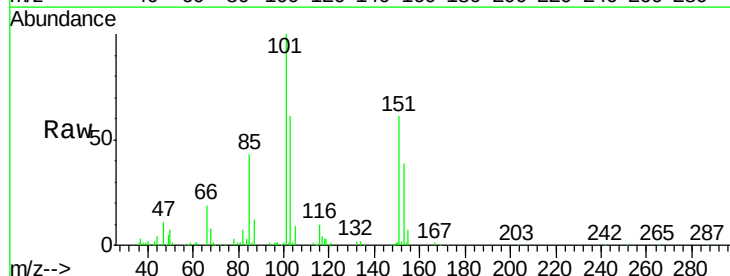
Manual Integrations
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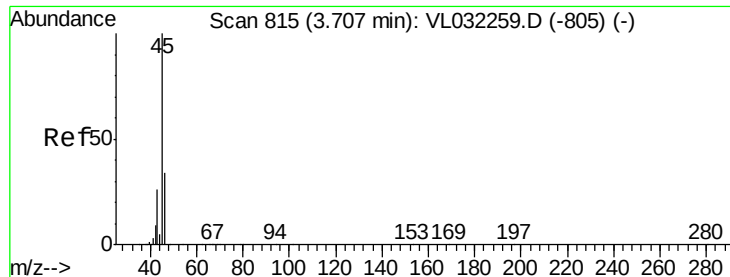
MMDadoda
 7/20/2018 2:53:04 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.04 ppbv
 RT: 4.62 min Scan# 1100
 Delta R.T. 0.00 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
101	100		
151	62.5	51.3	76.9





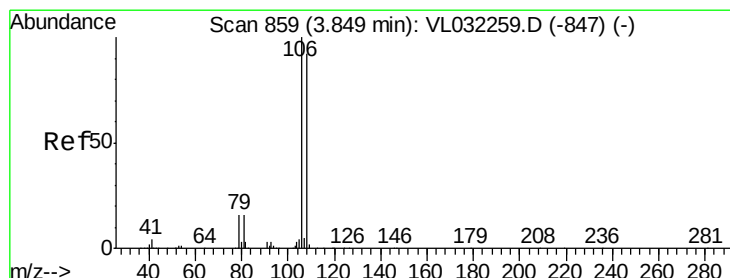
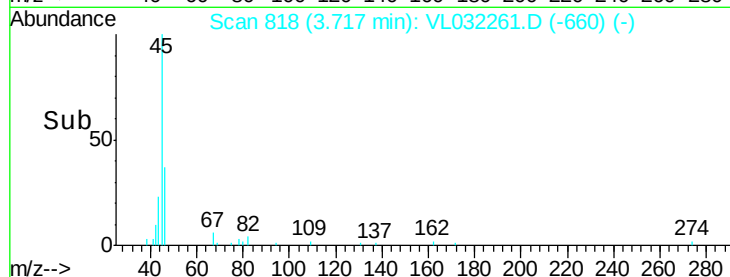
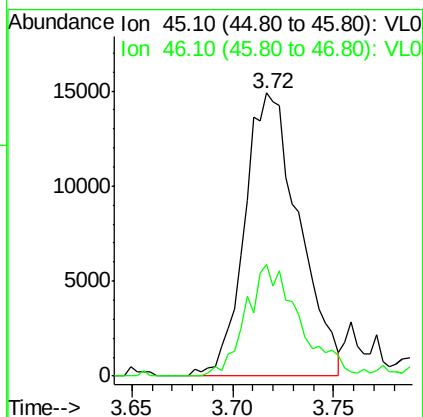
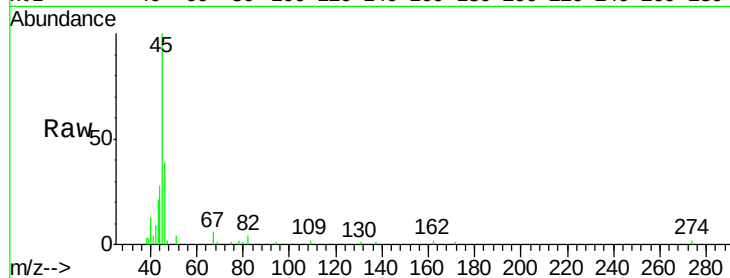
#13
Ethanol
Concen: 1.07 ppbv
RT: 3.72 min Scan# 818
Delta R.T. 0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
45	100		
46	41.8	15.2	60.8

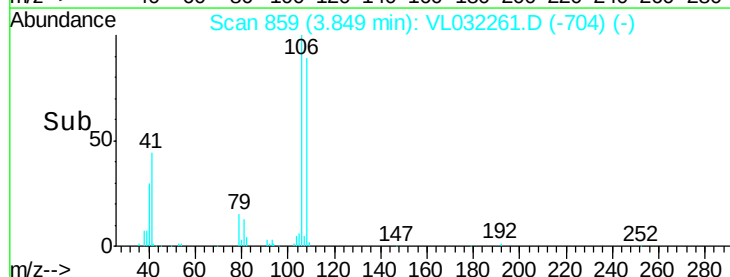
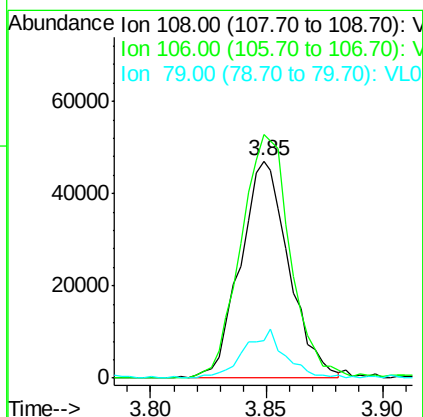
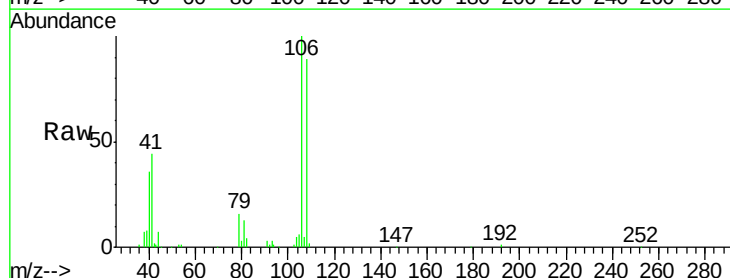
Manual Integrations
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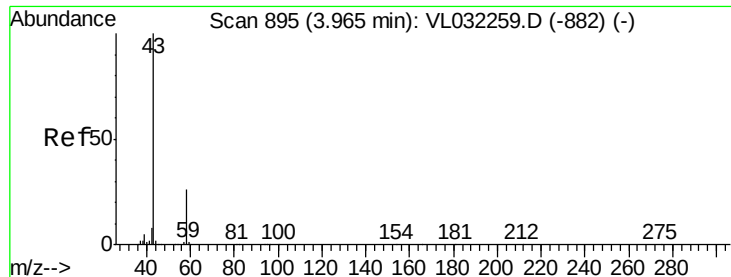
MMDadoda
7/20/2018 2:53:04 PM



#14
Bromoethene
Concen: 0.95 ppbv
RT: 3.85 min Scan# 859
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
108	100		
106	116.8	86.2	129.4
79	20.2	14.0	21.0





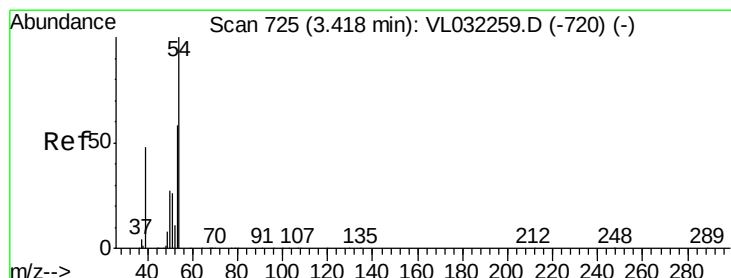
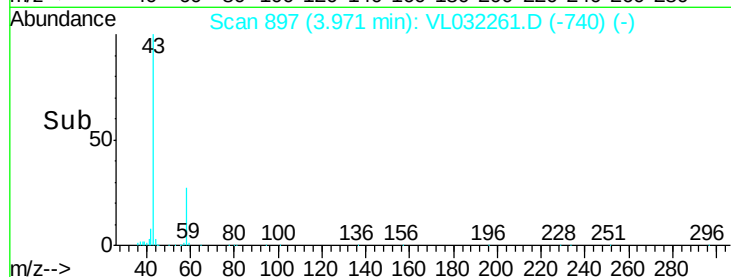
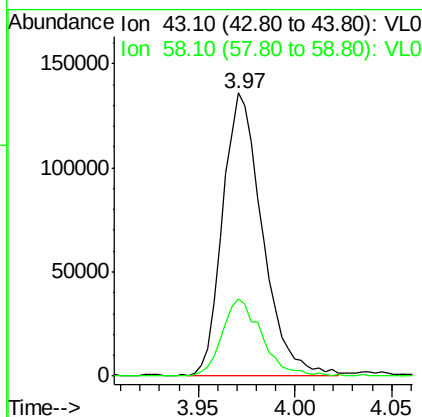
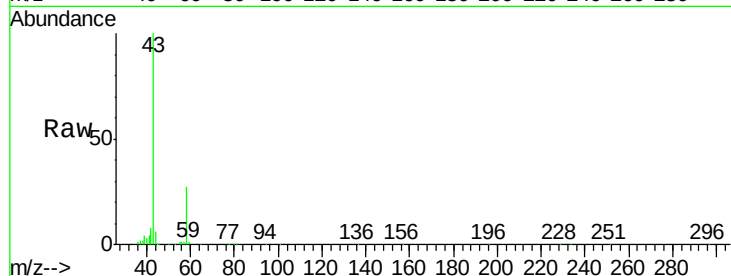
#15
Acetone
Concen: 0.96 ppbv
RT: 3.97 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	27.9	21.8	32.6

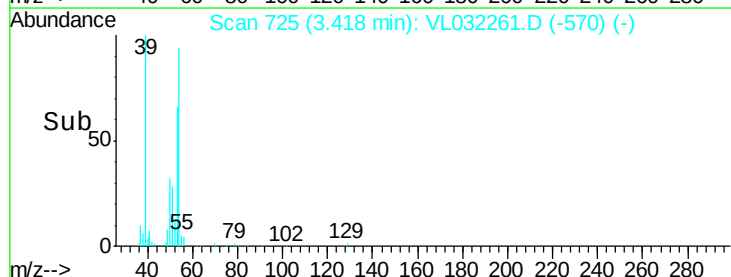
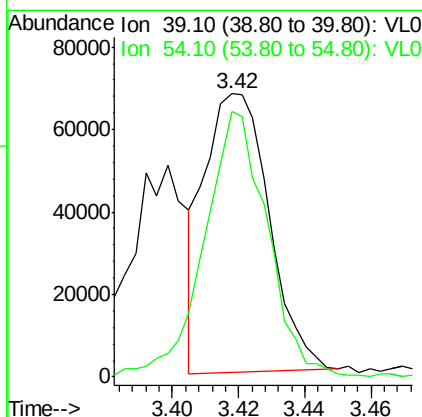
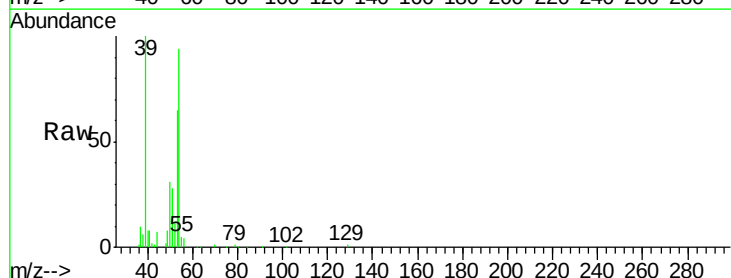
Manual Integrations
APPROVED

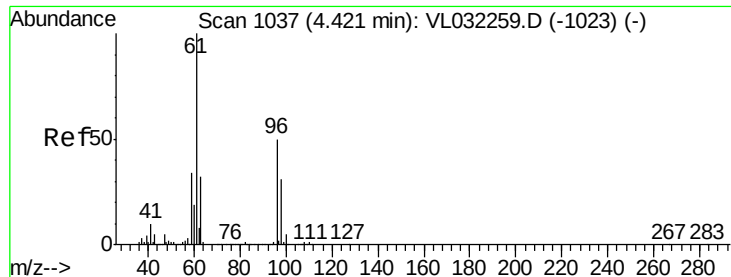
MMDadoda
7/20/2018 2:53:04 PM



#16
1,3-Butadiene
Concen: 0.90 ppbv
RT: 3.42 min Scan# 725
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
39	100		
54	94.8	70.6	105.8





#17

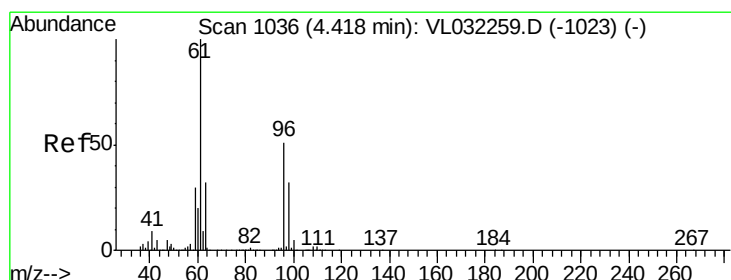
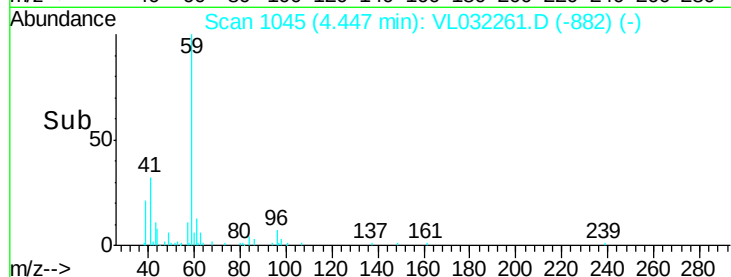
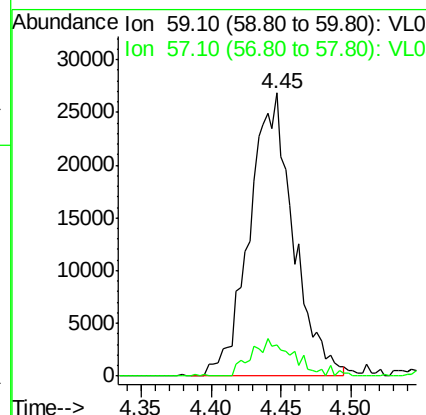
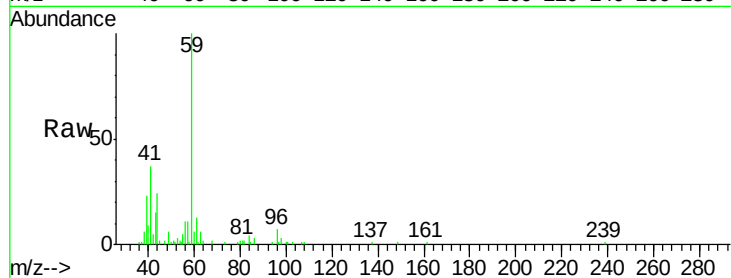
tert-Butyl alcohol
Concen: 0.62 ppbv m
RT: 4.45 min Scan# 1045
Delta R.T. 0.03 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 59 Resp: 58479
Ion Ratio Lower Upper
59 100
57 12.8 8.2 12.4#

Manual Integrations
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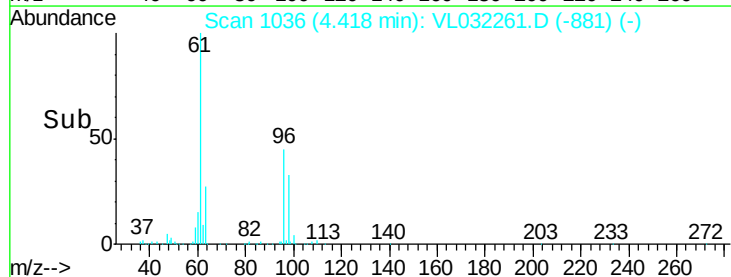
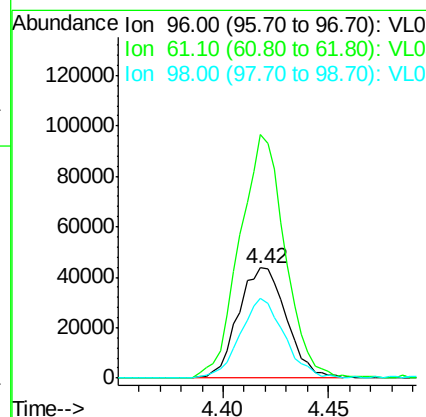
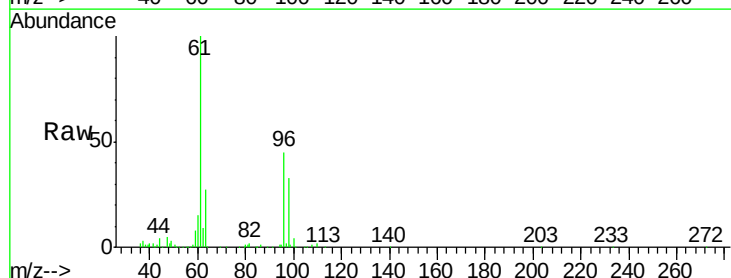
MMDadoda
7/20/2018 2:53:04 PM

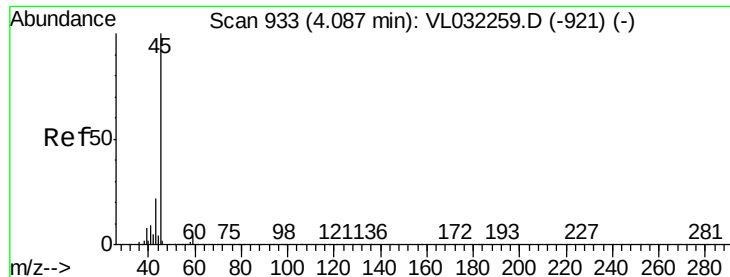


#18

1,1-Dichloroethene
Concen: 0.98 ppbv
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion: 96 Resp: 69548
Ion Ratio Lower Upper
96 100
61 221.4 157.2 235.8
98 72.6 50.1 75.1





#19

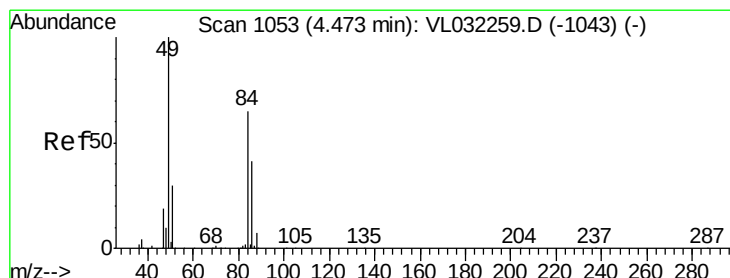
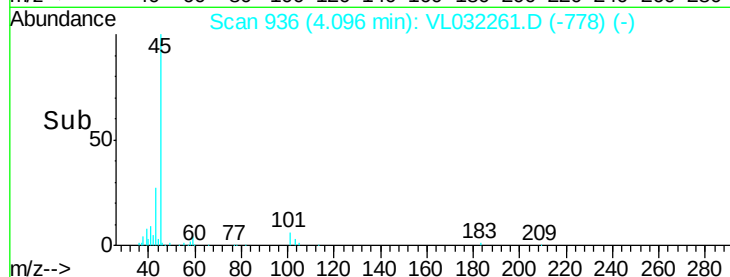
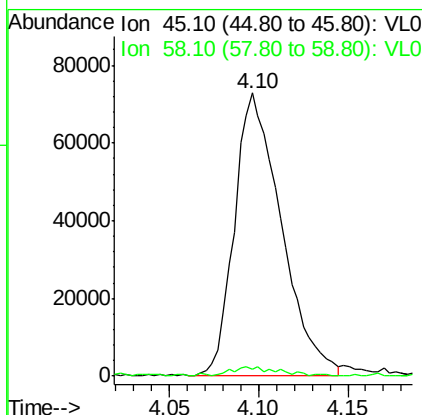
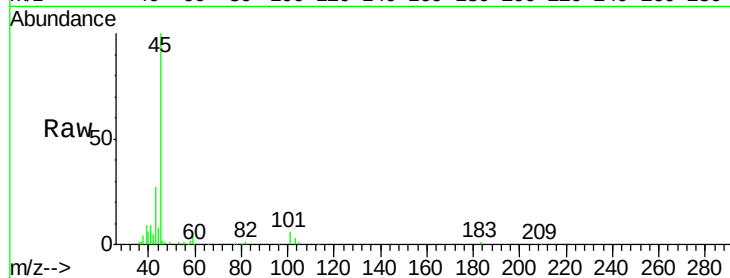
Isopropyl Alcohol
 Concen: 1.01 ppbv
 RT: 4.10 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	45	58	Ratio	Lower	Upper
133554	100	4.2	1.5	2.3	

Manual Integrations
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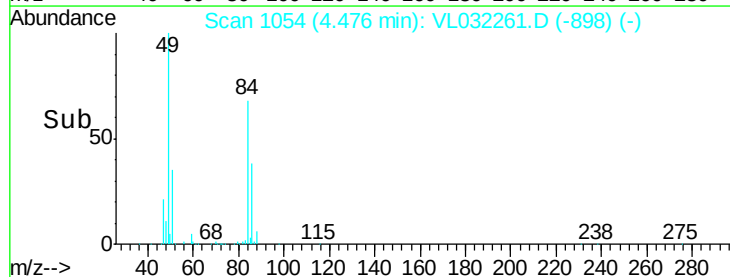
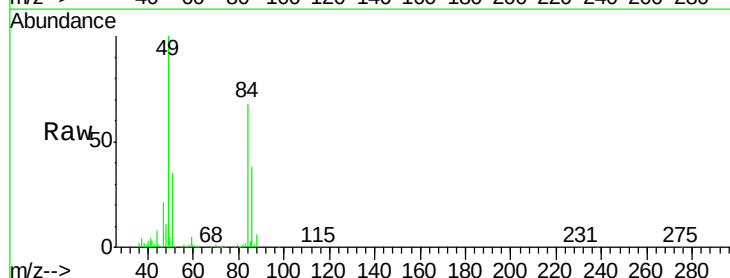
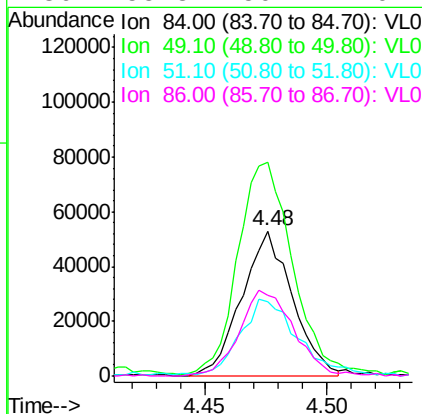
MMDadoda
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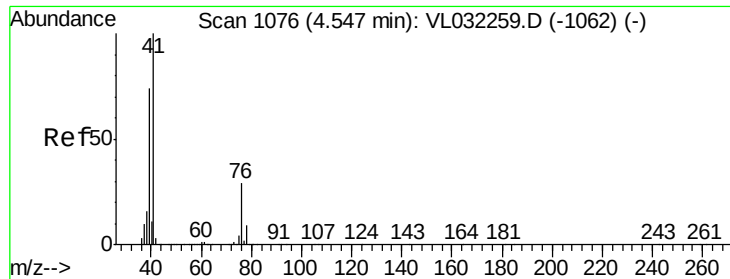


#20

Methylene Chloride
 Concen: 1.12 ppbv
 RT: 4.48 min Scan# 1054
 Delta R.T. 0.00 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Tgt Ion	84	49	51	86	Ratio	Lower	Upper
76305	100	145.2	50.0	55.3	122.4	183.6	55.2





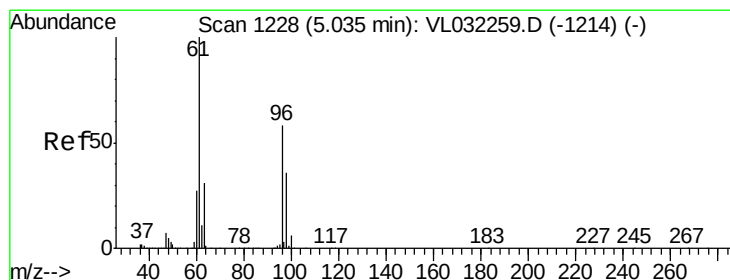
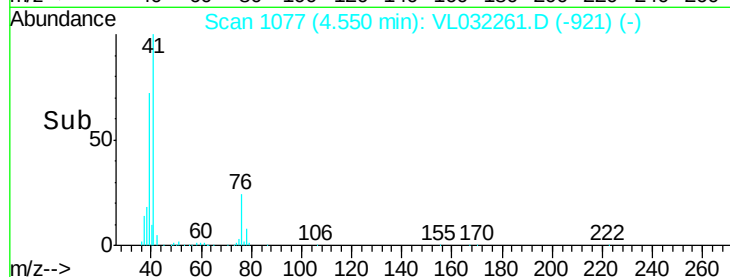
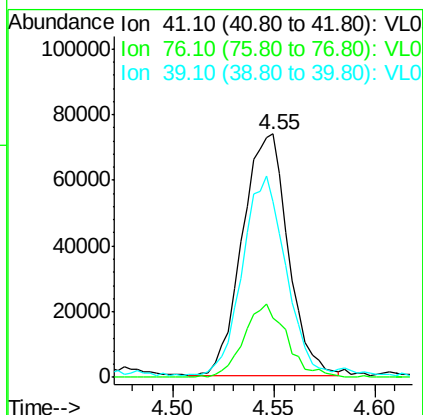
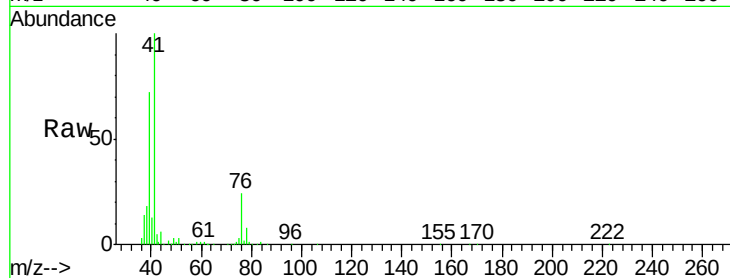
#21
Allvl Chloride
Concen: 1.00 ppbv
RT: 4.55 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.6	23.0	34.6
39	82.2	60.2	90.4

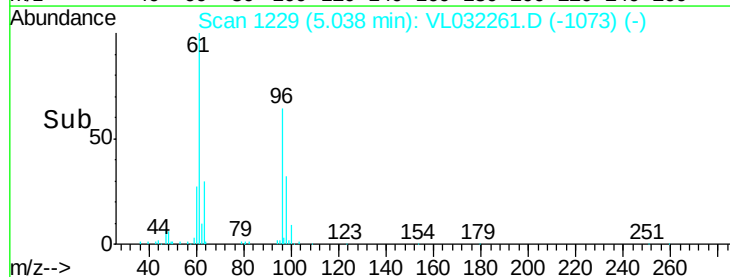
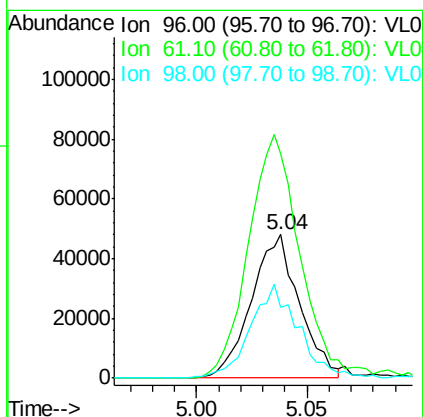
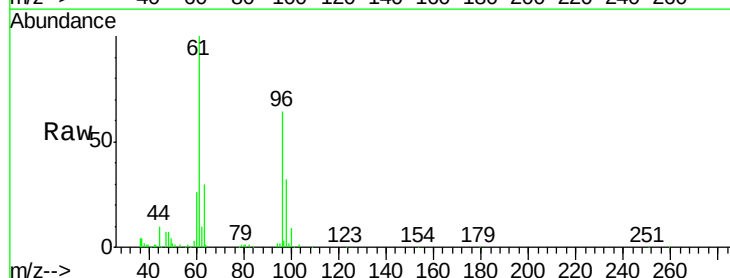
Manual Integrations
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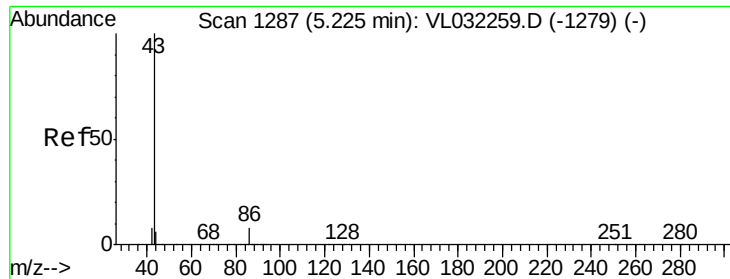
MMDadoda
7/20/2018 2:53:04 PM



#22
trans-1,2-Dichloroethene
Concen: 1.08 ppbv
RT: 5.04 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.9	137.4	206.0
98	49.5	49.6	74.4#





#23

Vinyl Acetate

Concen: 0.97 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

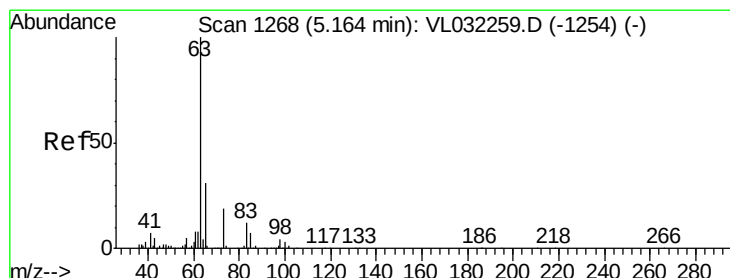
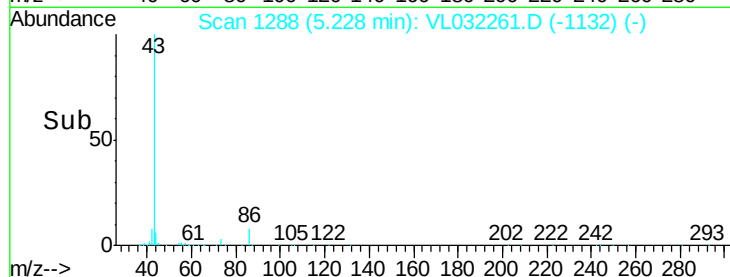
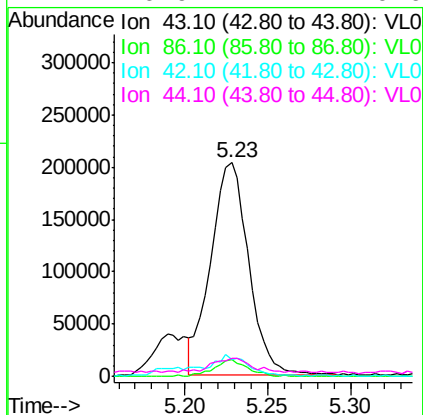
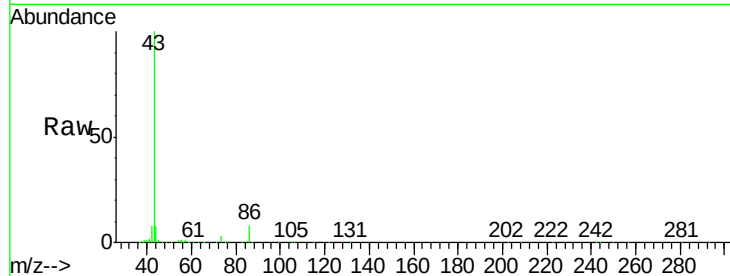
ClientSampleId :

VSTDIC001

Tot Ion	43	Resp	323459
Ion Ratio	Lower	Upper	
43	100		
86	7.9	5.9	8.9
42	7.6	7.3	10.9
44	6.9	4.4	6.6#

Manual Integrations
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MMDadoda
7/20/2018 2:53:04 PM



#24

1,1-Dichloroethane

Concen: 1.08 ppbv

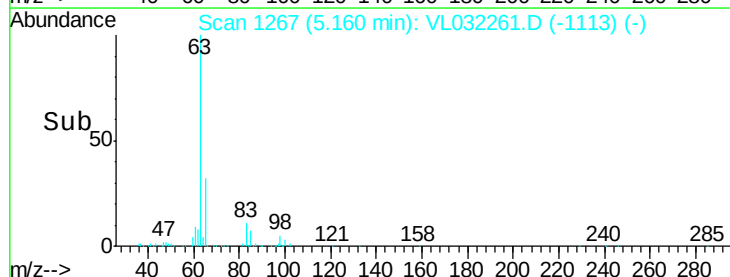
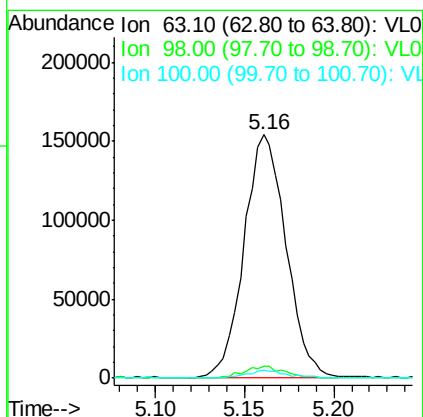
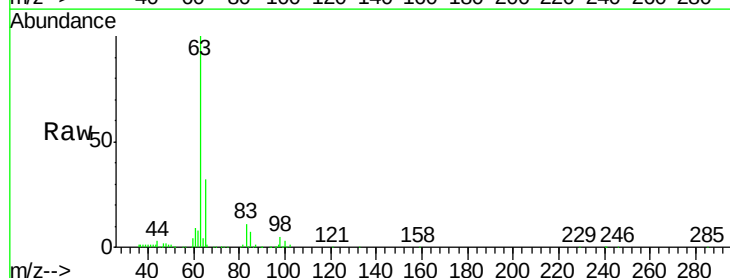
RT: 5.16 min Scan# 1267

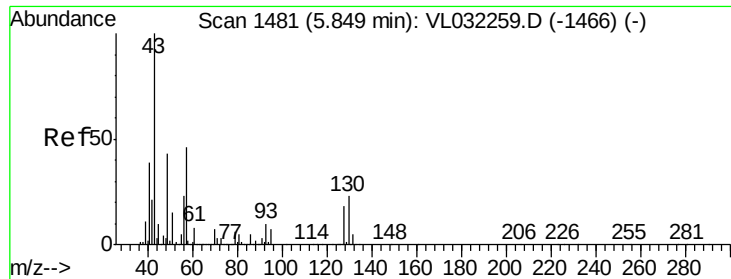
Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion	63	Resp	252995
Ion Ratio	Lower	Upper	
63	100		
98	5.0	2.1	6.3
100	3.4	1.3	3.9





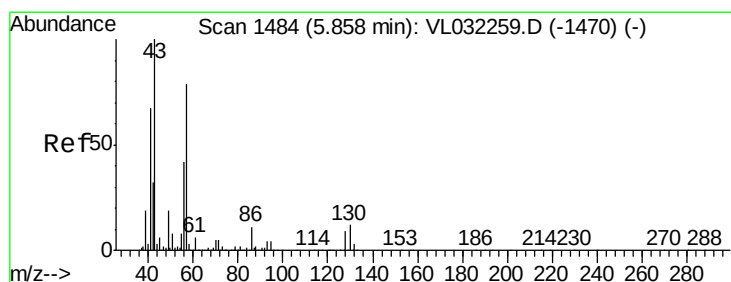
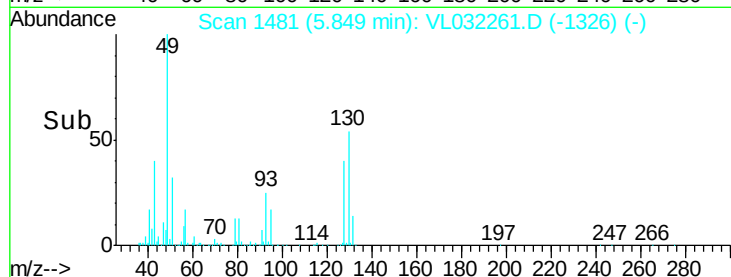
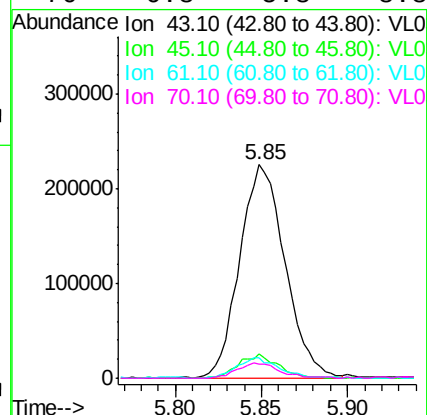
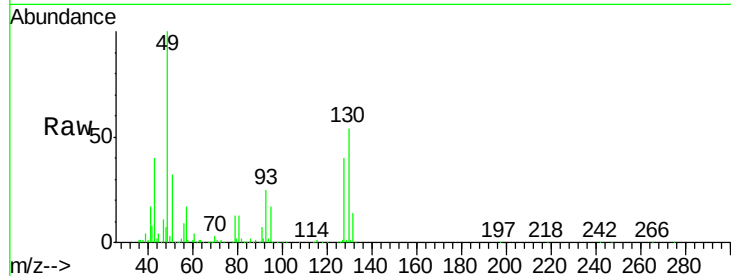
#25
Ethyl Acetate
Concen: 1.03 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.9	11.9
61	9.4	7.6	11.4
70	6.8	5.8	8.8

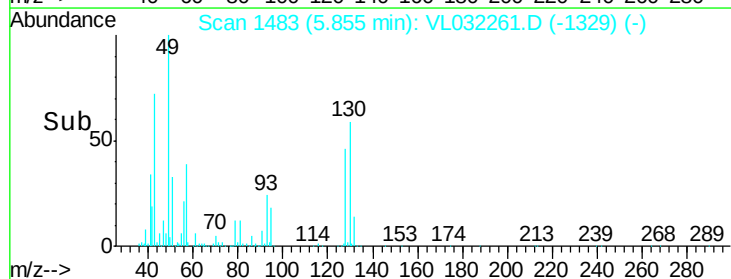
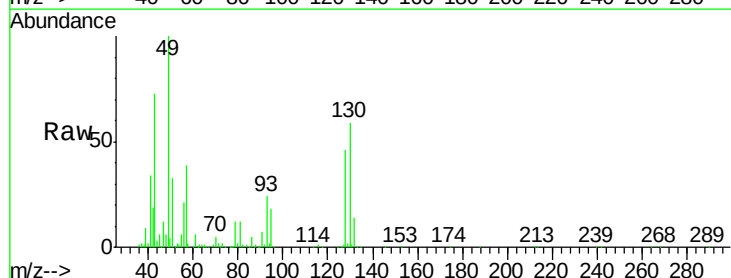
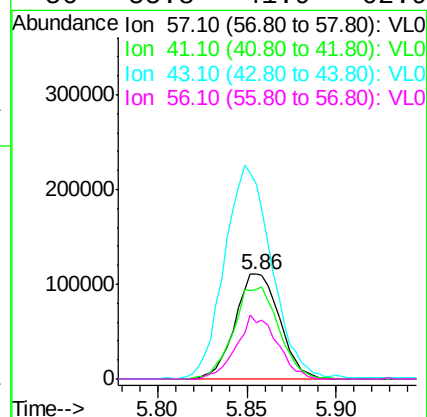
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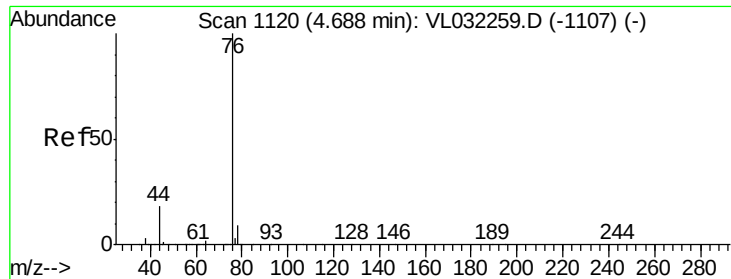
MMDadoda
7/20/2018 2:53:04 PM



#26
Hexane
Concen: 1.06 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.7	67.9	101.9
43	216.1	175.9	263.9
56	55.8	41.9	62.9





#27

Carbon Disulfide

Concen: 0.97 ppbv

RT: 4.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

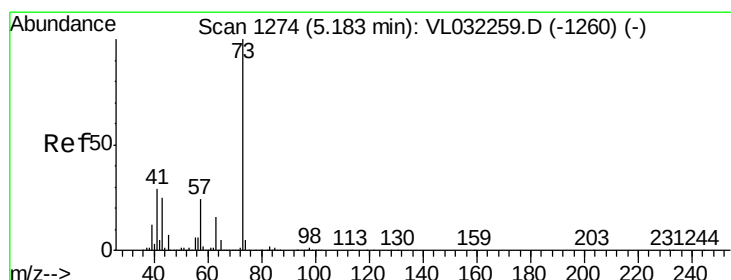
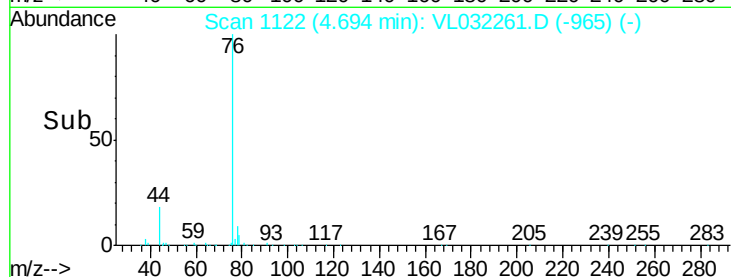
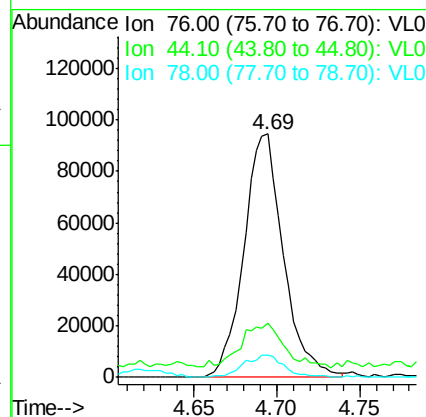
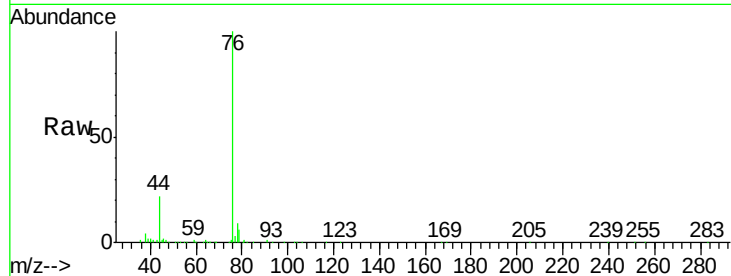
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	156490
Ion Ratio	Lower	Upper	
76	100		
44	25.1	14.3	21.5#
78	10.0	7.4	11.0

Manual Integrations
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7/20/2018 2:53:04 PM



#28

Methyl tert-Butyl Ether

Concen: 0.97 ppbv

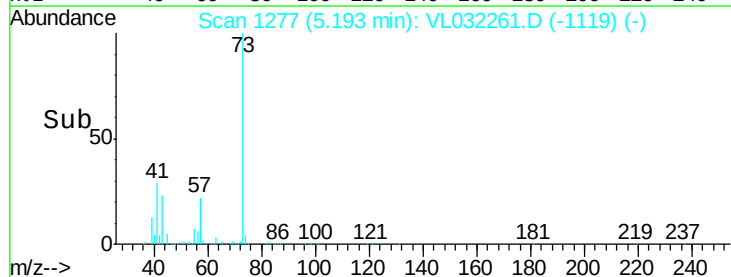
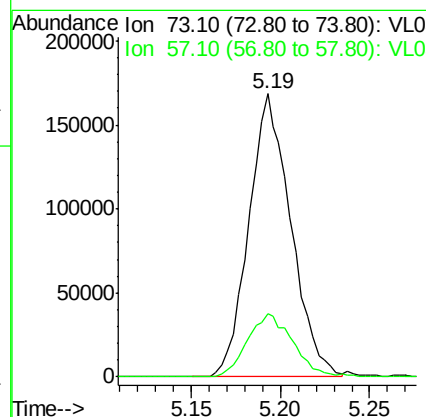
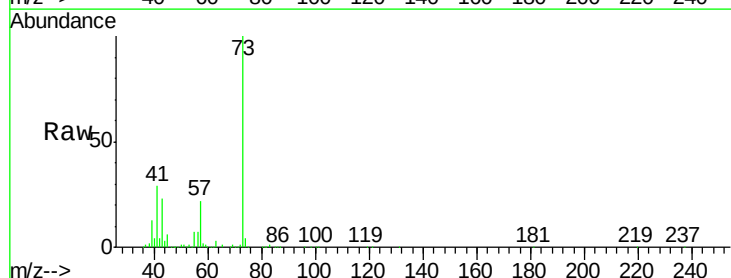
RT: 5.19 min Scan# 1277

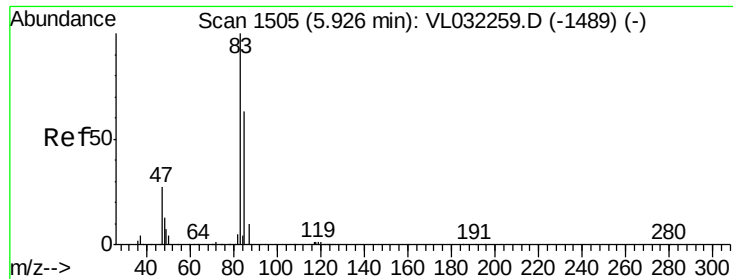
Delta R.T. 0.01 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion:	73	Resp:	276599
Ion Ratio	Lower	Upper	
73	100		
57	24.4	19.3	28.9





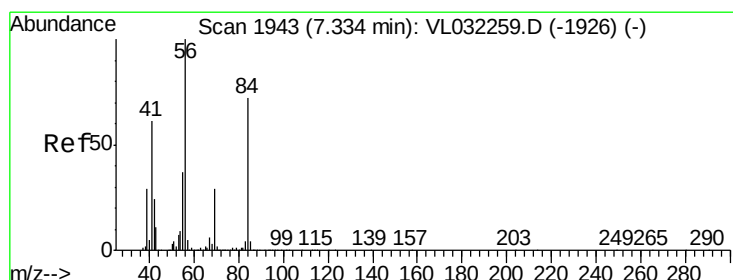
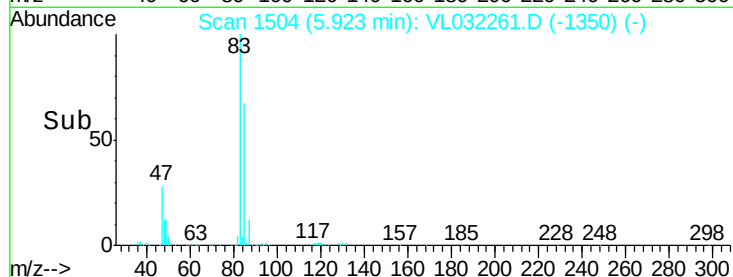
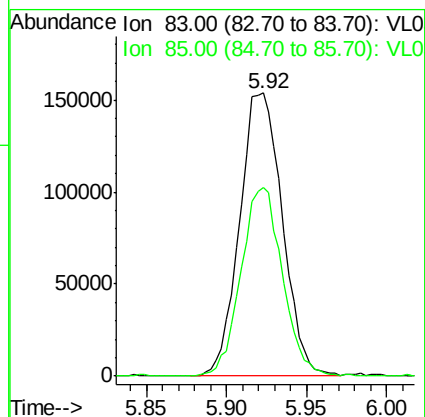
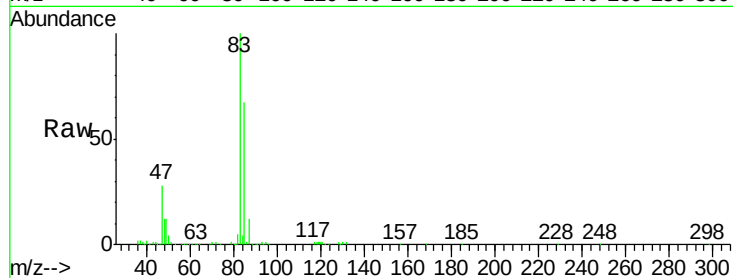
#29
Chloroform
Concen: 1.00 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 83 Resp: 279863
Ion Ratio Lower Upper
83 100
85 66.4 50.7 76.1

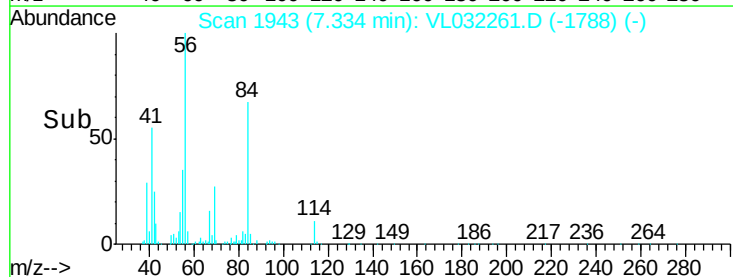
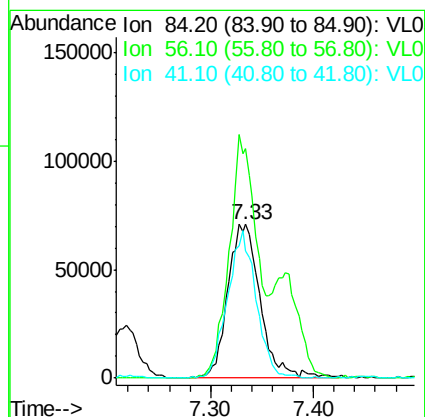
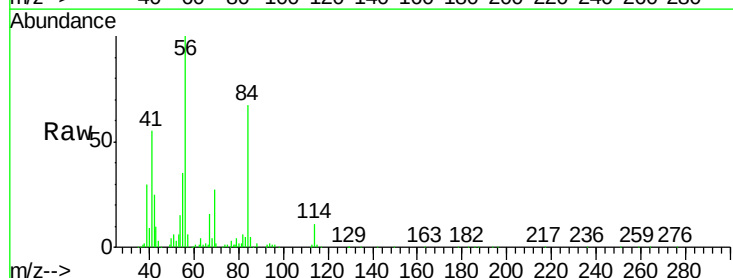
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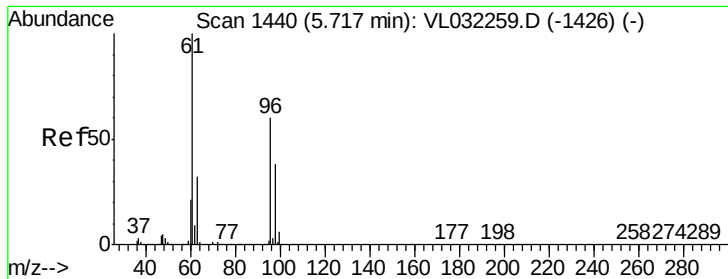
MMDadoda
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#30
Cyclohexane
Concen: 0.97 ppbv m
RT: 7.33 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion: 84 Resp: 154974
Ion Ratio Lower Upper
84 100
56 188.6 115.6 173.4#
41 0.0 68.7 103.1#





#31

cis-1,2-Dichloroethene

Concen: 1.00 ppbv

RT: 5.71 min Scan# 1439

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

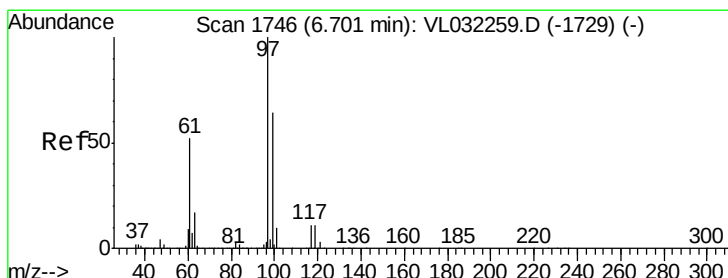
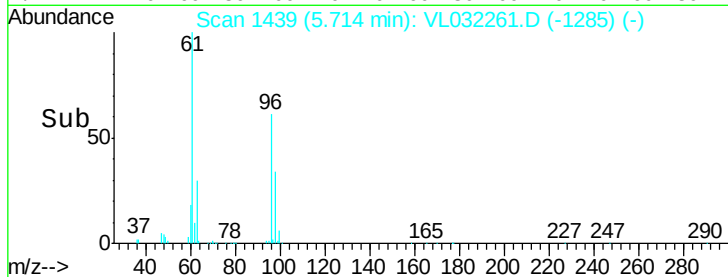
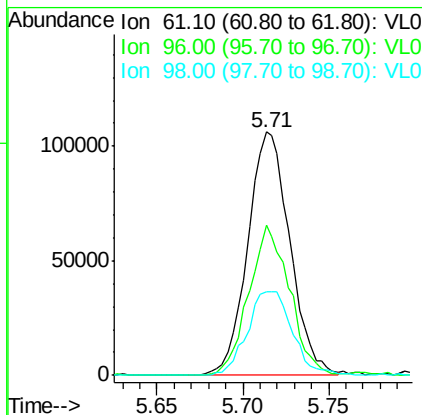
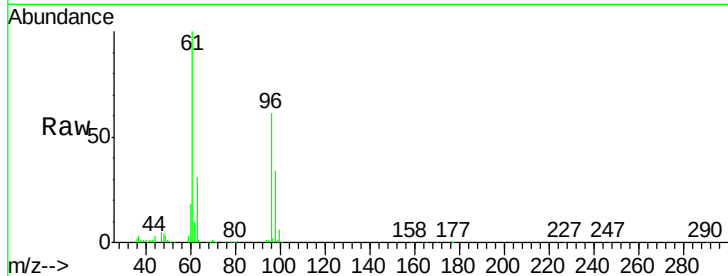
ClientSampleId :

VSTDIC001

Tot Ion:	61	Resp:	180720
Ion Ratio		Lower	Upper
61	100		
96	61.5	47.9	71.9
98	34.1	30.5	45.7

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#32

1,1,1-Trichloroethane

Concen: 1.01 ppbv

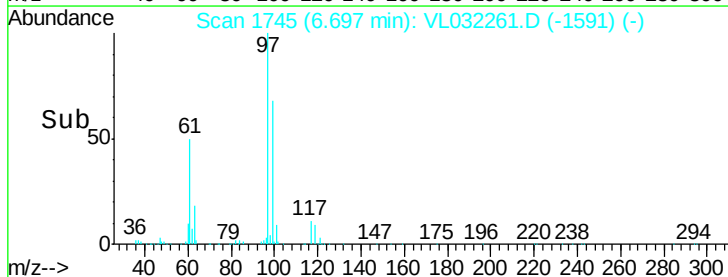
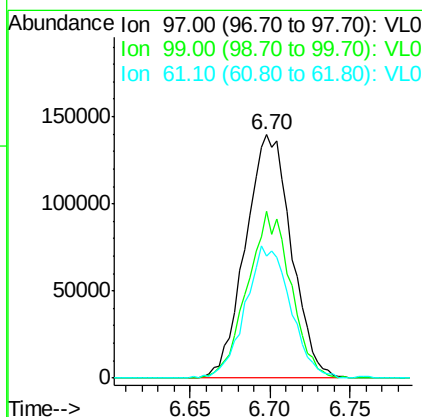
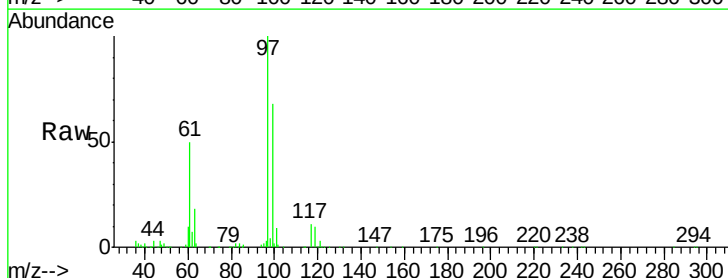
RT: 6.70 min Scan# 1745

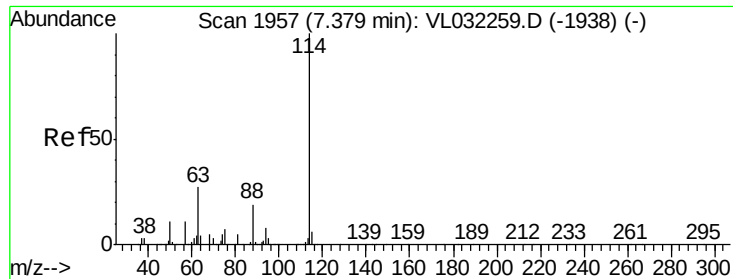
Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion:	97	Resp:	274819
Ion Ratio		Lower	Upper
97	100		
99	64.5	51.0	76.6
61	53.2	41.2	61.8





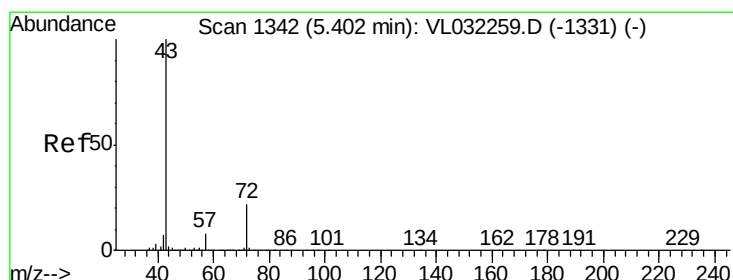
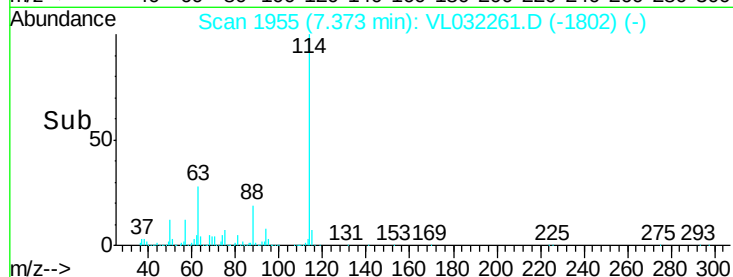
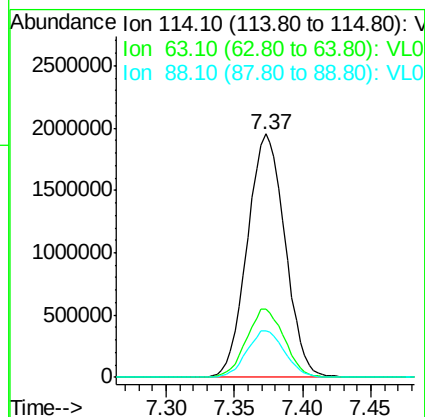
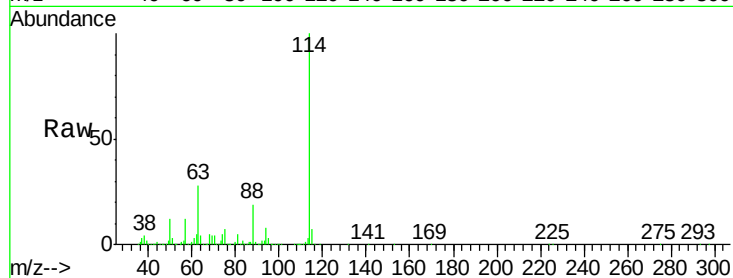
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.37 min Scan# 1955
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:114 Resp: 3742970
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.6 33.8
 88 19.1 15.2 22.8

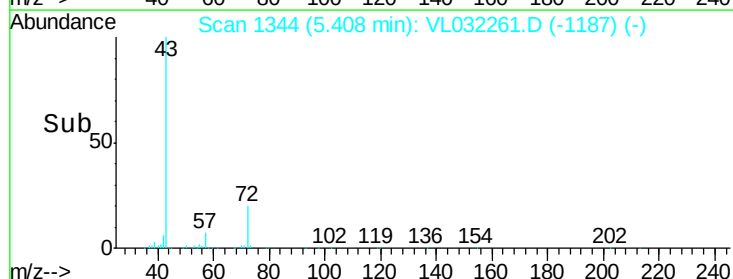
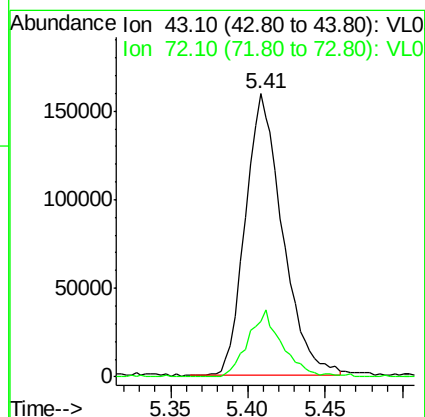
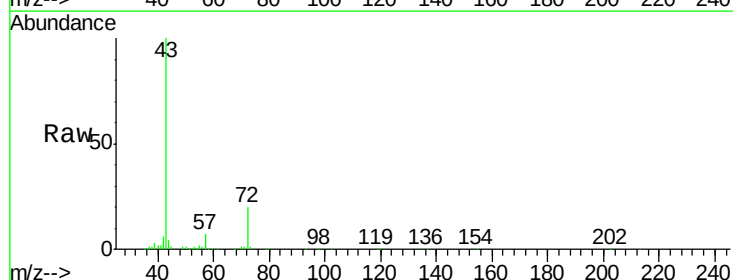
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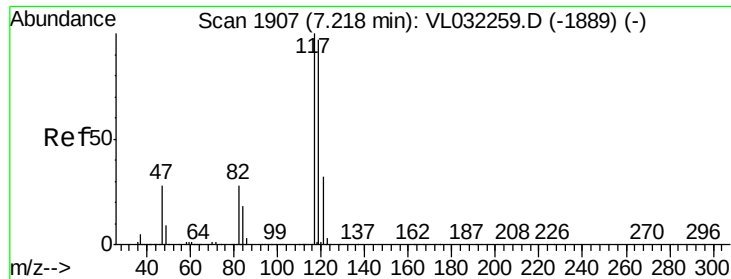
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#34
 2-Butanone
 Concen: 1.05 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. 0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Tgt Ion: 43 Resp: 266637
 Ion Ratio Lower Upper
 43 100
 72 22.2 17.7 26.5





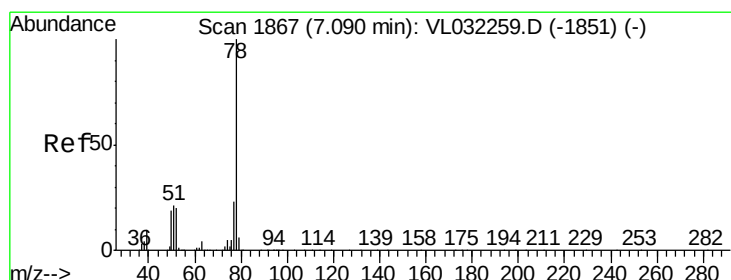
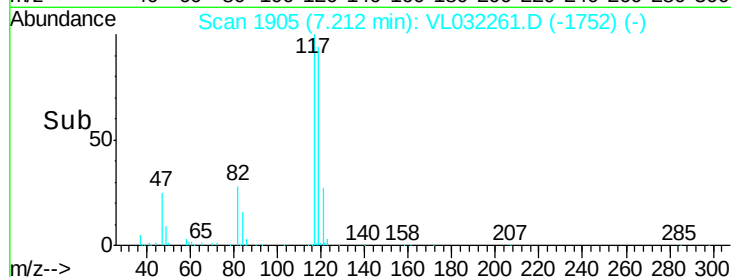
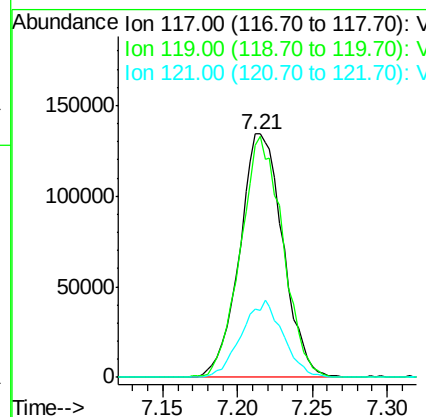
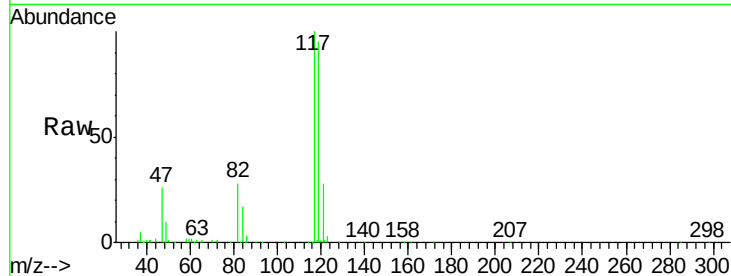
#35
Carbon Tetrachloride
Concen: 1.07 ppbv
RT: 7.21 min Scan# 1905
Delta R.T. -0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.4	116.0
121	27.9	25.4	38.2

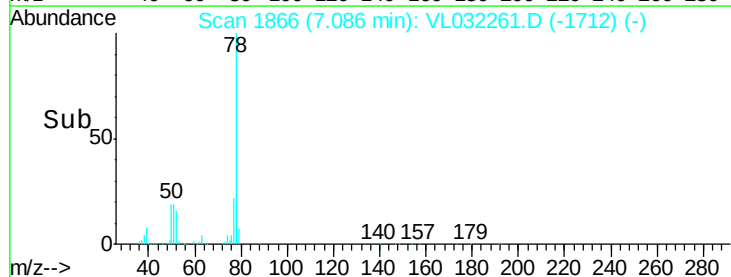
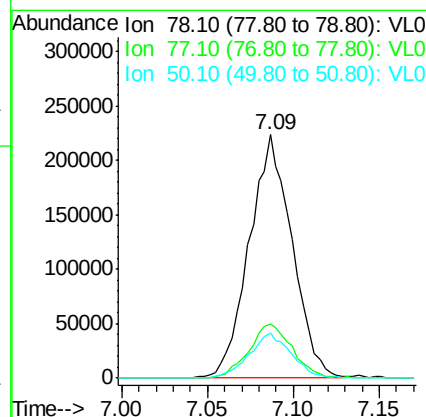
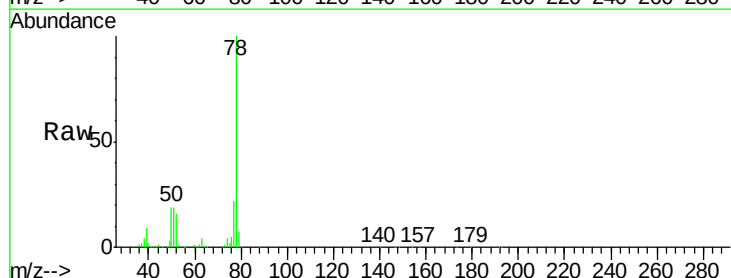
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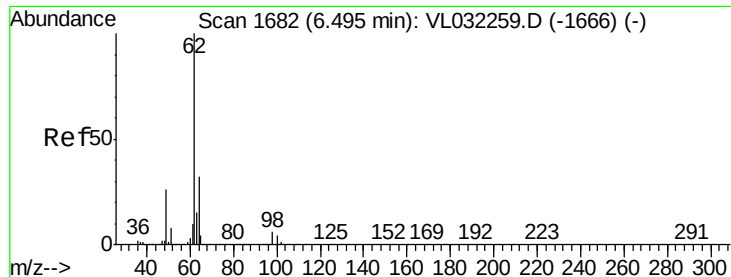
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#36
Benzene
Concen: 1.04 ppbv
RT: 7.09 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.6	27.8
50	18.6	15.0	22.6





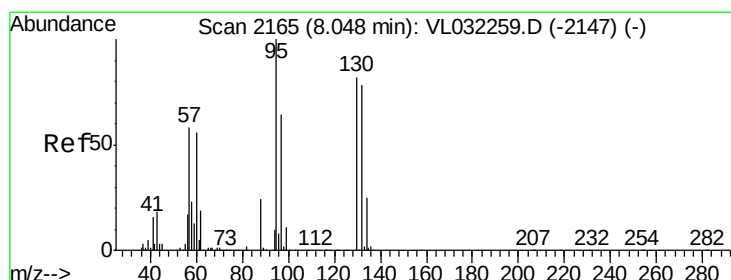
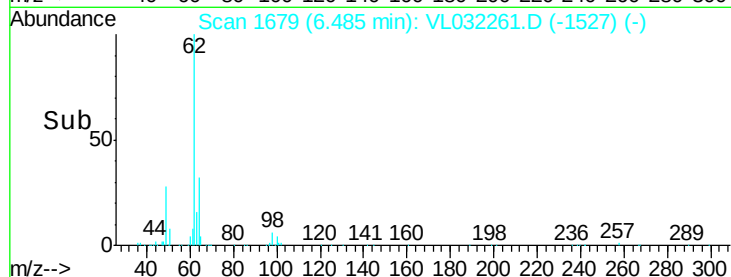
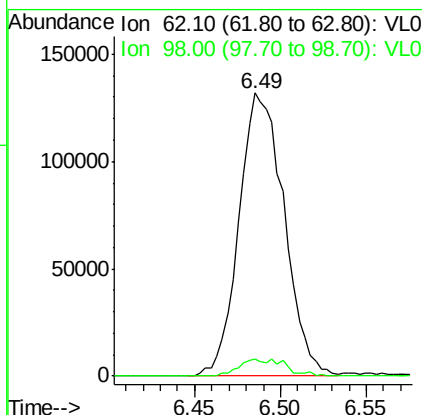
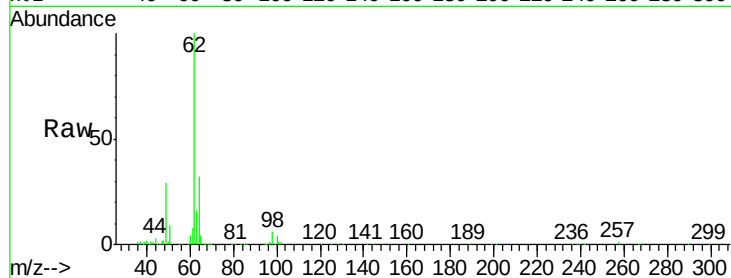
#37
 1,2-Dichloroethane
 Concen: 1.18 ppbv
 RT: 6.49 min Scan# 1679
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.3	4.9	7.3

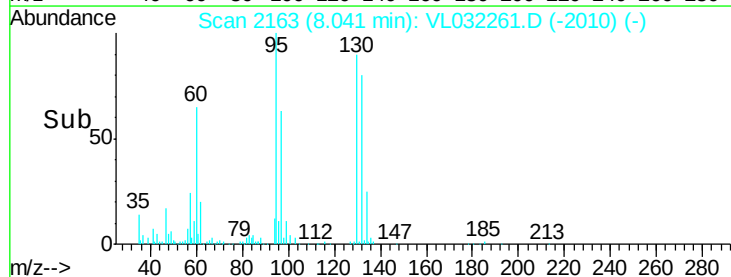
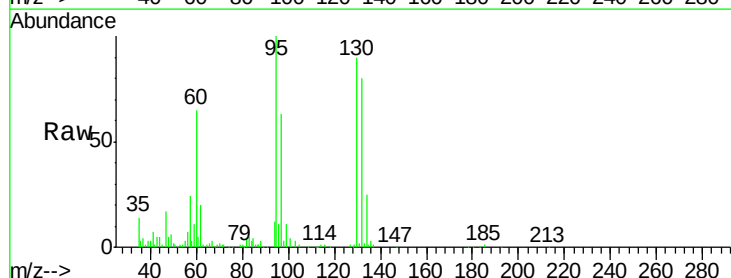
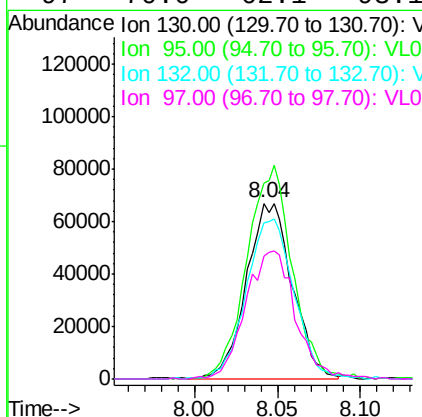
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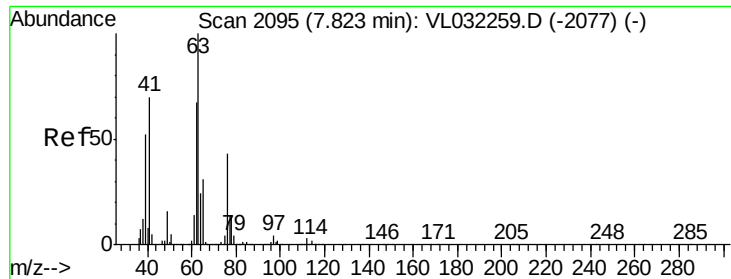
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#38
 Trichloroethene
 Concen: 1.00 ppbv
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.1	97.1	145.7
132	88.8	75.6	113.4
97	70.0	62.1	93.1





#39

1,2-Dichloropropane

Concen: 1.03 ppbv

RT: 7.82 min Scan# 2094

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

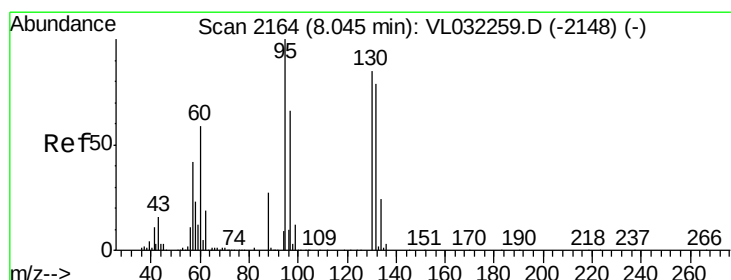
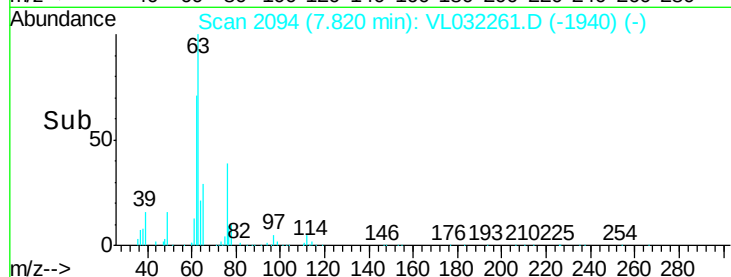
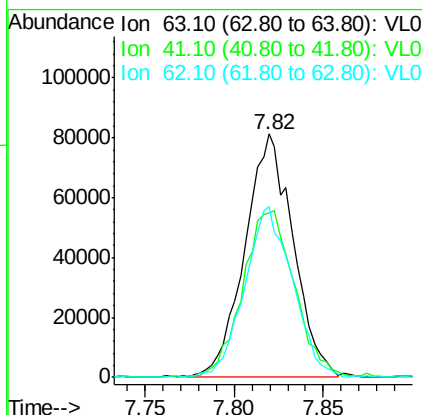
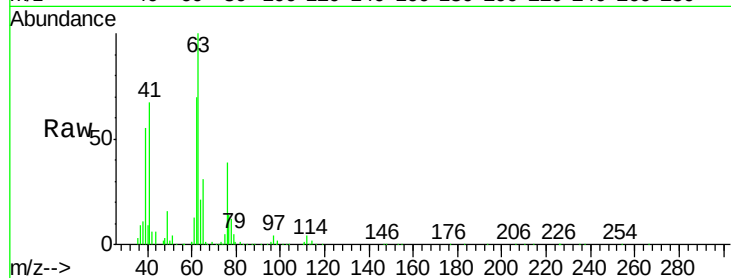
ClientSampleId :

VSTDIC001

Tot Ion:	63	Resp:	152018
Ion	Ratio	Lower	Upper
63	100		
41	67.1	55.8	83.6
62	70.1	53.8	80.8

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#40

1,4-Dioxane

Concen: 1.01 ppbv m

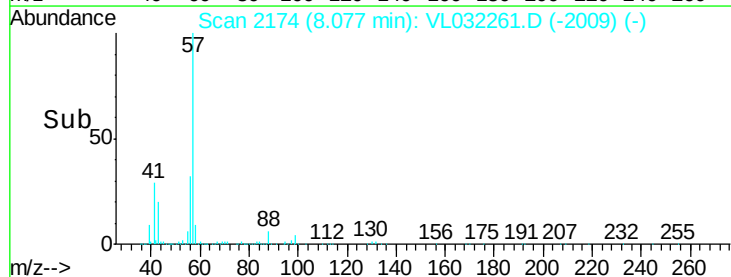
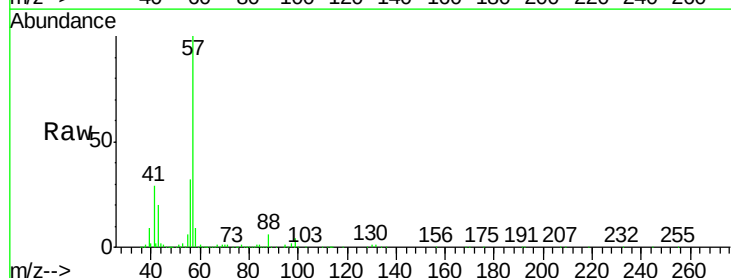
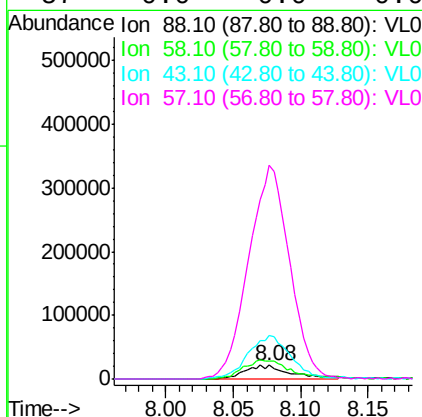
RT: 8.08 min Scan# 2174

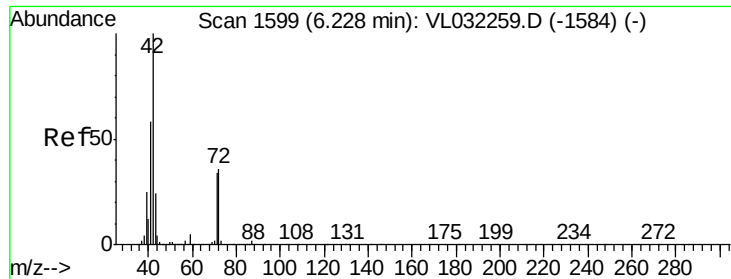
Delta R.T. 0.03 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion:	88	Resp:	51209
Ion	Ratio	Lower	Upper
88	100		
58	149.8	60.9	91.3#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





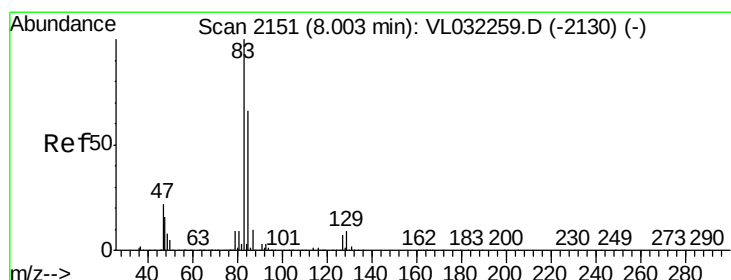
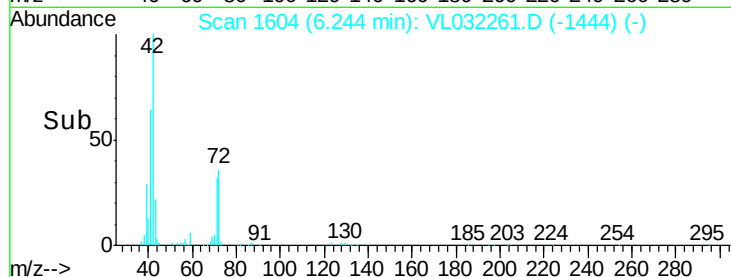
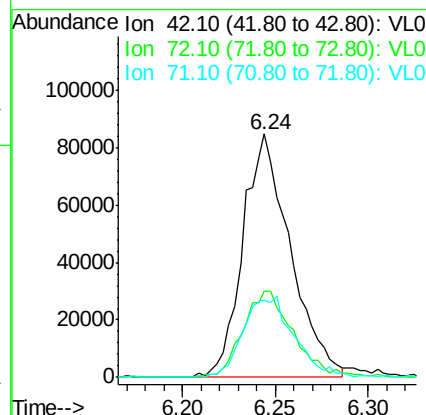
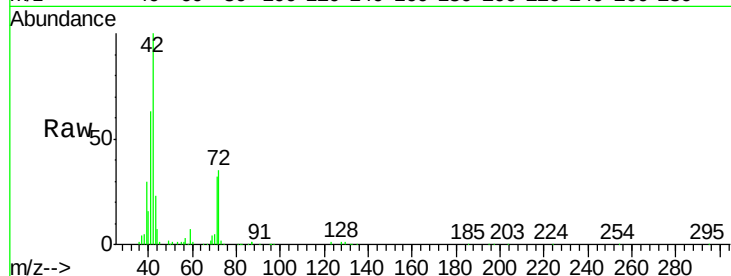
#41
Tetrahydrofuran
Concen: 1.06 ppbv
RT: 6.24 min Scan# 1604
Delta R.T. 0.02 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.6	29.4	44.0
71	35.9	28.2	42.4

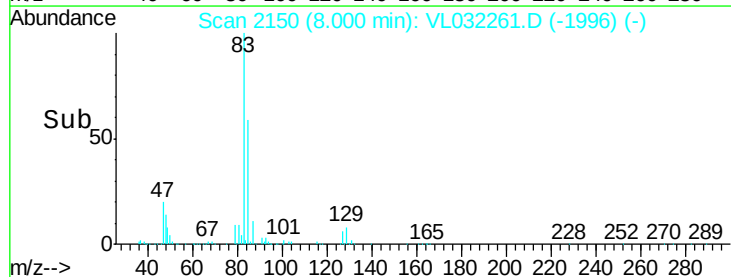
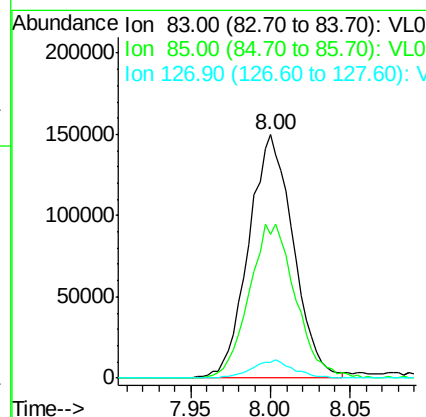
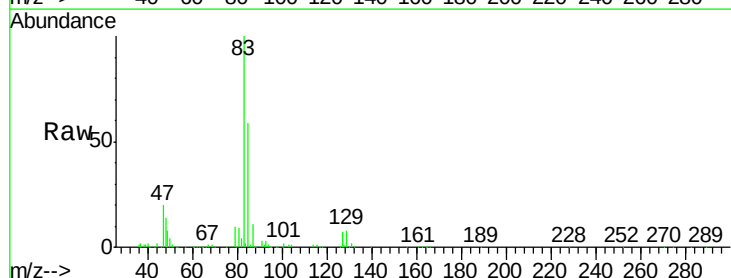
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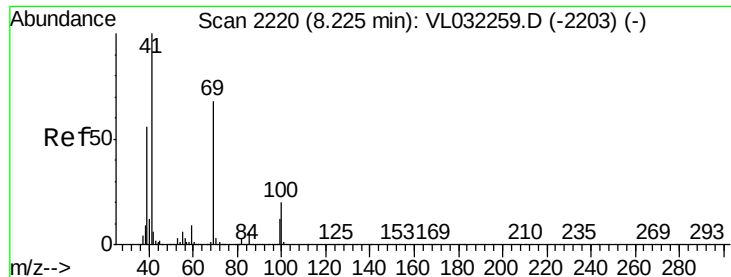
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#42
Bromodichloromethane
Concen: 0.99 ppbv
RT: 8.00 min Scan# 2150
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.0	53.0	79.4
127	6.4	5.7	8.5





#43

Methyl Methacrylate

Concen: 1.07 ppbv

RT: 8.22 min Scan# 2220

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

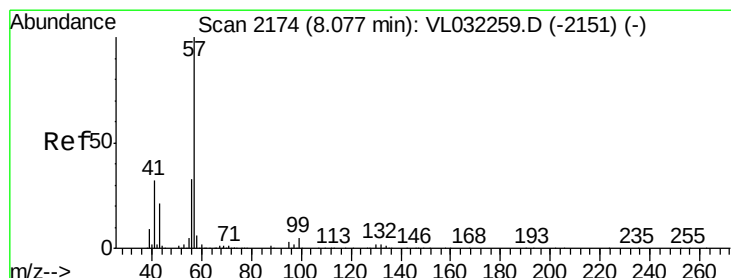
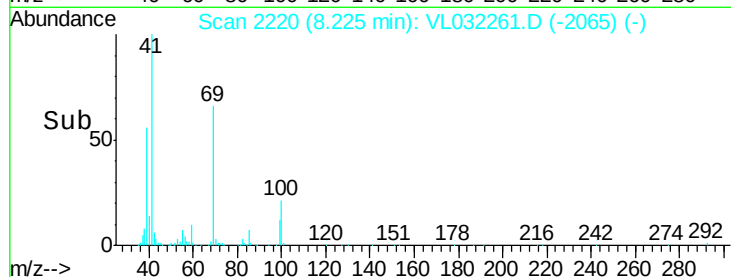
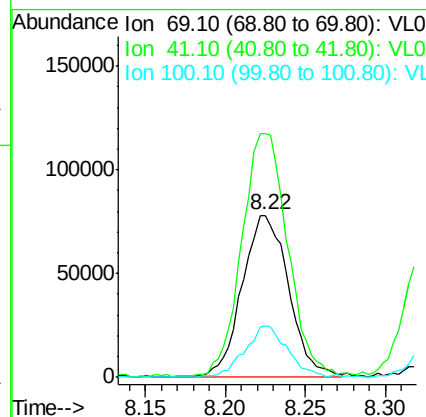
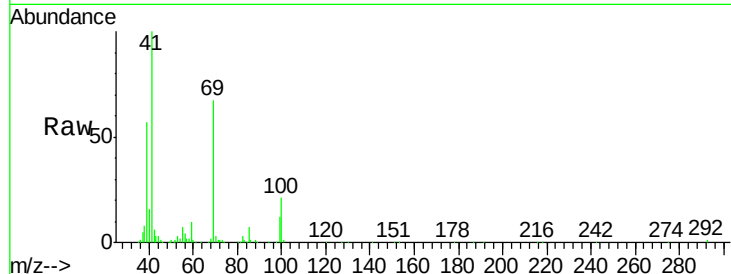
Instrument :
MSVOA_L

ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	150.2	118.6	177.8	
100	29.7	23.3	34.9	

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#44

2,2,4-Trimethylpentane

Concen: 1.11 ppbv

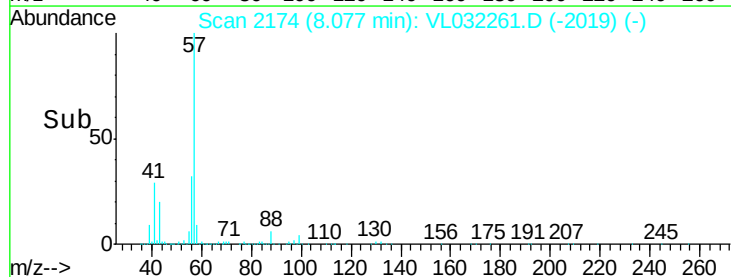
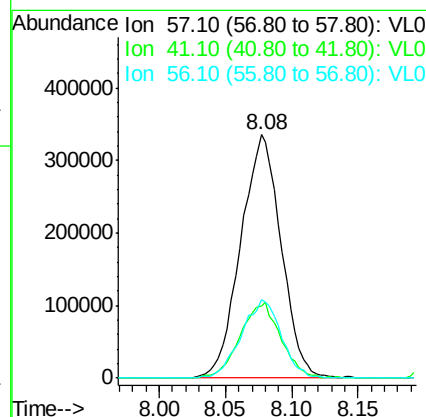
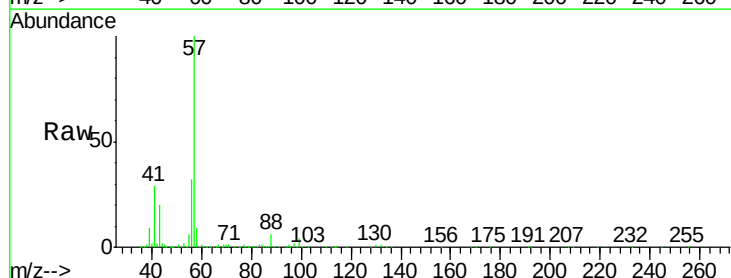
RT: 8.08 min Scan# 2174

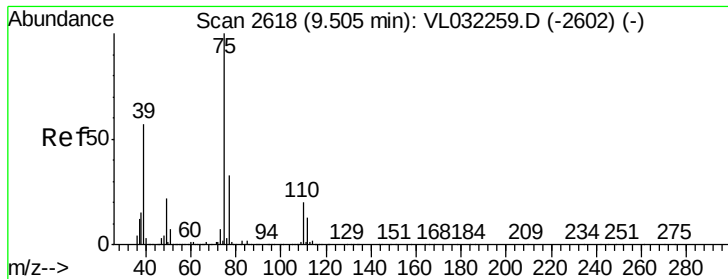
Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	31.8	24.4	36.6	
56	32.1	25.7	38.5	





#45

t-1,3-Dichloropropene

Concen: 0.87 ppbv

RT: 9.50 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 148159

Ion Ratio Lower Upper

75 100

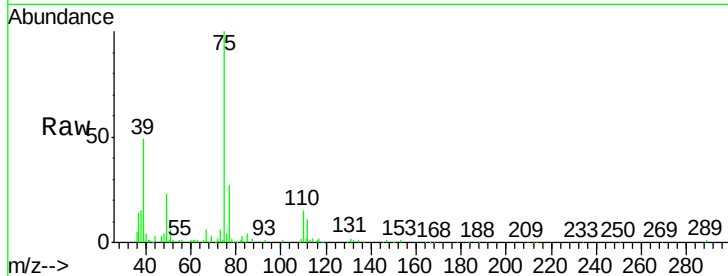
77 26.9 26.2 39.4

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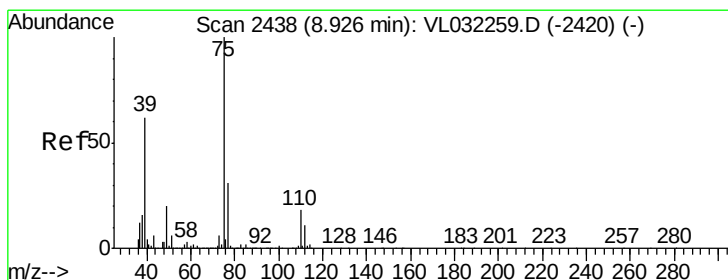
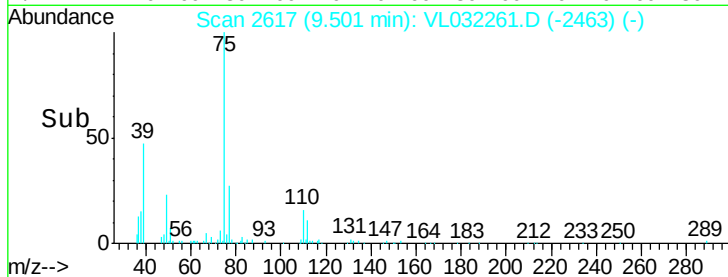
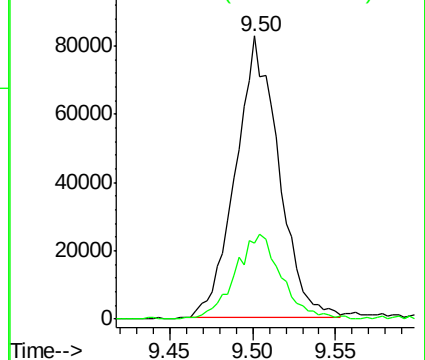
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 1.02 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

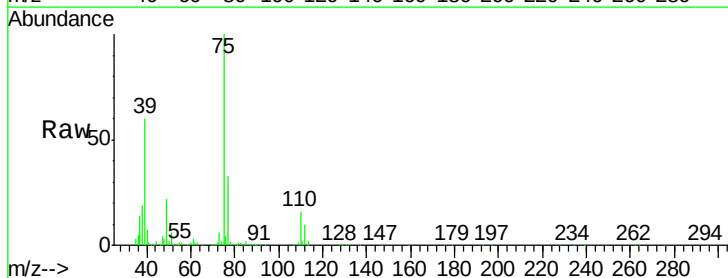
Tgt Ion: 75 Resp: 237706

Ion Ratio Lower Upper

75 100

39 59.0 49.9 74.9

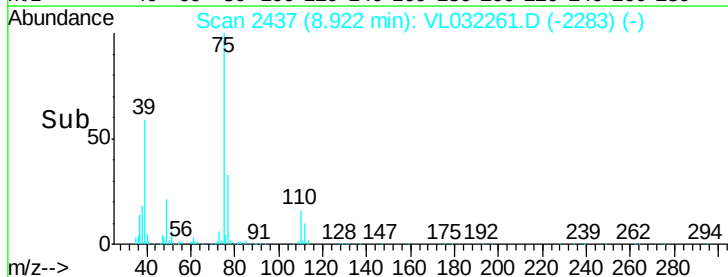
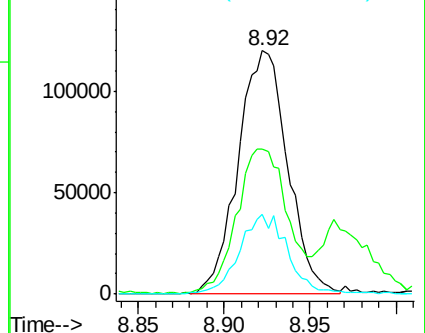
77 32.1 25.0 37.4

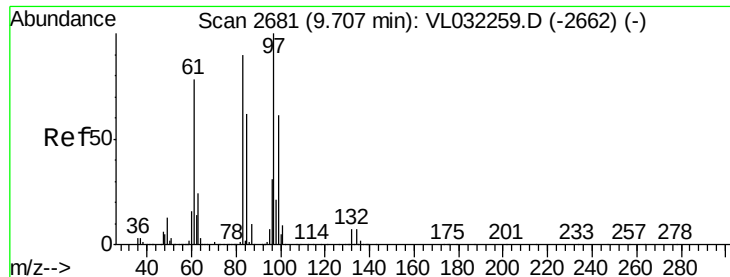


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 1.13 ppbv

RT: 9.70 min Scan# 2680

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

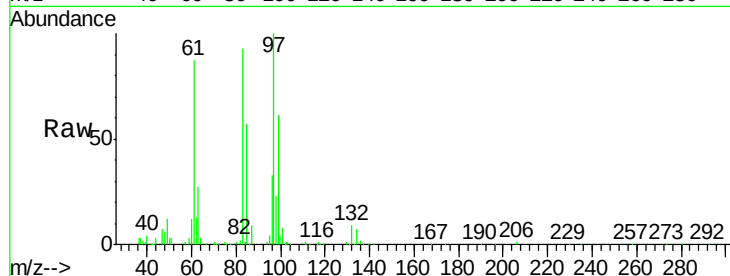
ClientSampleId :

VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		186538		
83	93.1	72.3	108.5		
85	55.7	49.5	74.3		
99	61.0	48.9	73.3		

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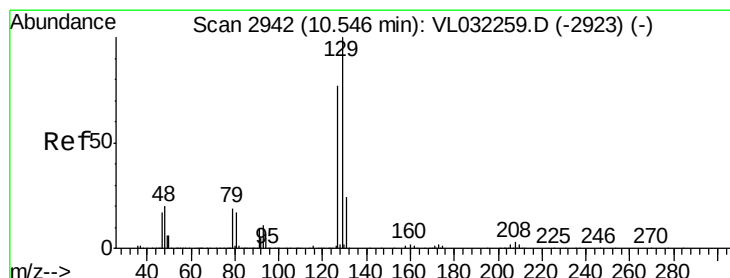
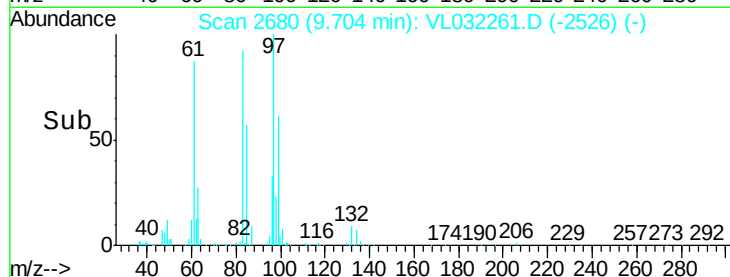
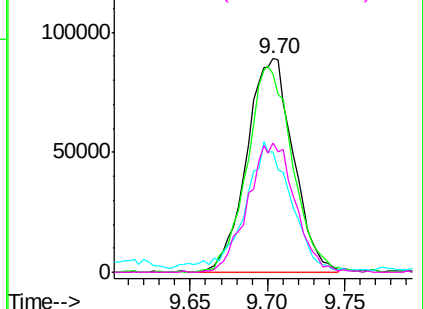


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 1.03 ppbv

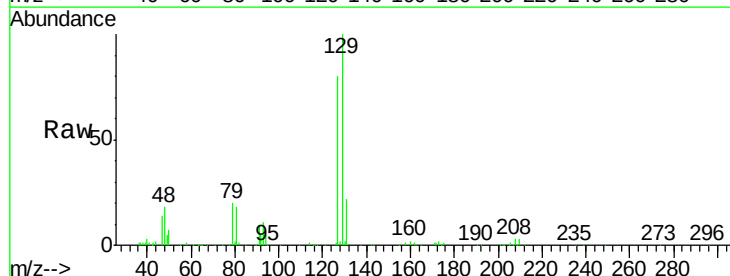
RT: 10.54 min Scan# 2940

Delta R.T. -0.01 min

Lab File: VL032261.D

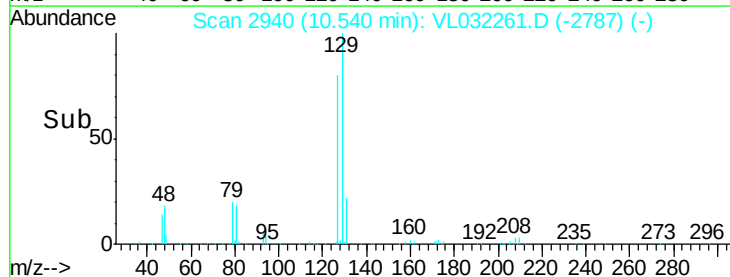
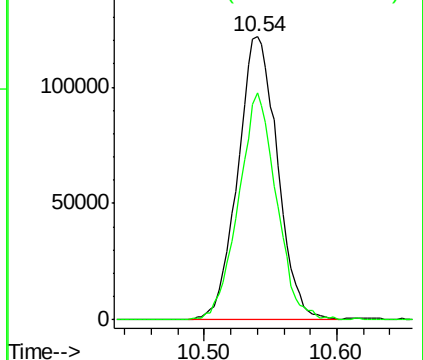
Acq: 18 Jul 2018 10:38

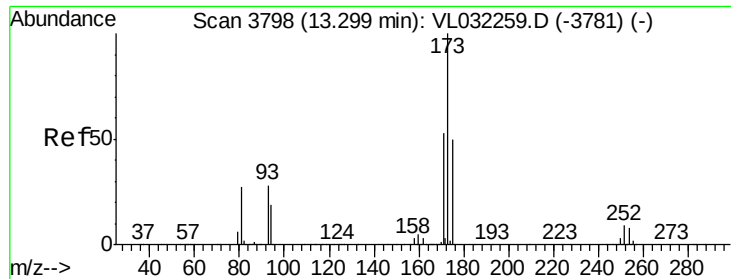
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		253296		
127	76.7	39.1	117.3		



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 1.07 ppbv

RT: 13.29 min Scan# 3796

Delta R.T. -0.01 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

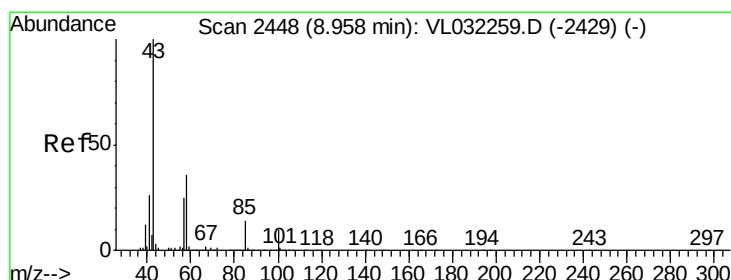
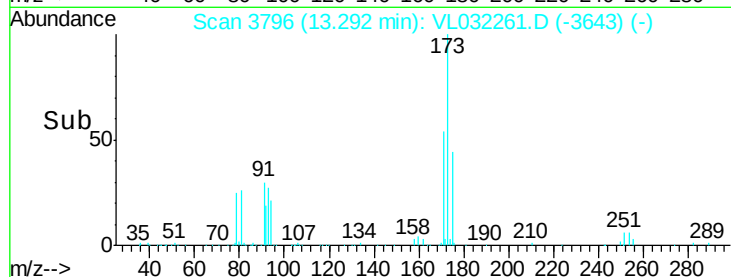
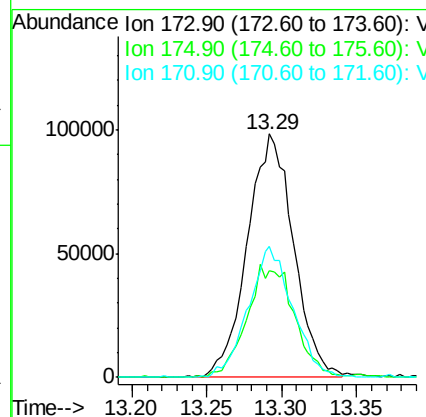
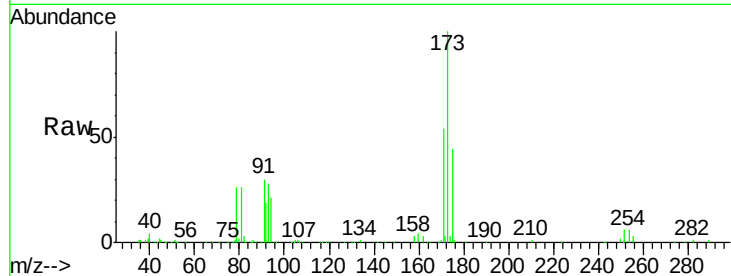
ClientSampleId :

VSTDIC001

Tot Ion:	173	Resp:	210587
Ion Ratio	Lower	Upper	
173	100		
175	47.8	39.0	58.6
171	52.2	41.6	62.4

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 1.07 ppbv

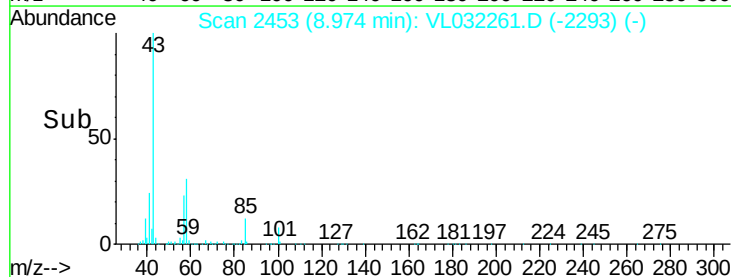
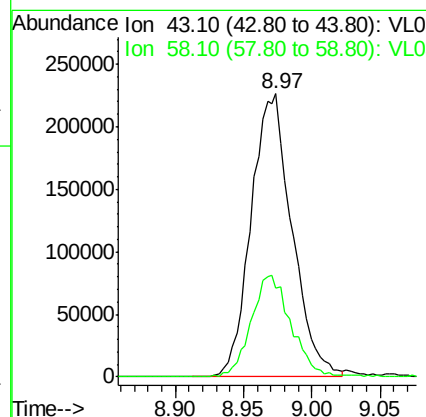
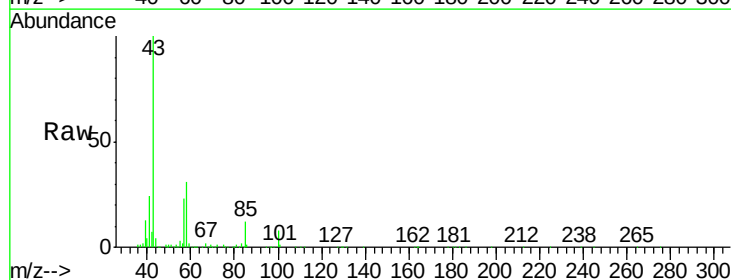
RT: 8.97 min Scan# 2453

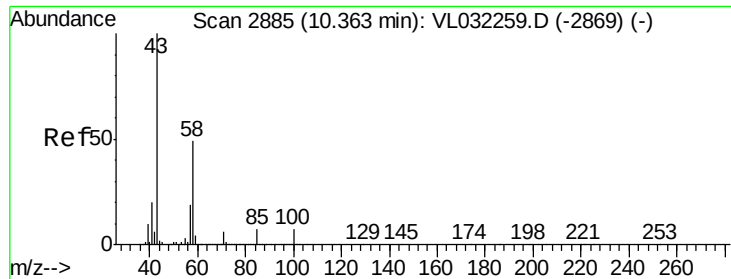
Delta R.T. 0.02 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion:	43	Resp:	469978
Ion Ratio	Lower	Upper	
43	100		
58	34.7	29.2	43.8





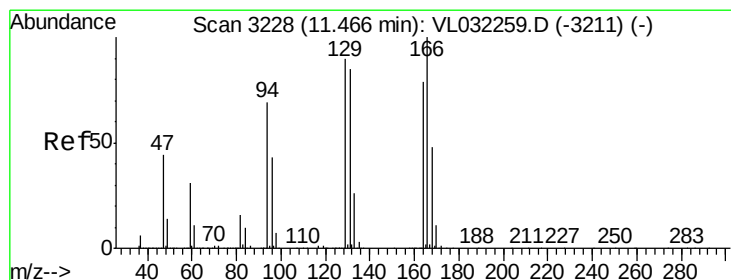
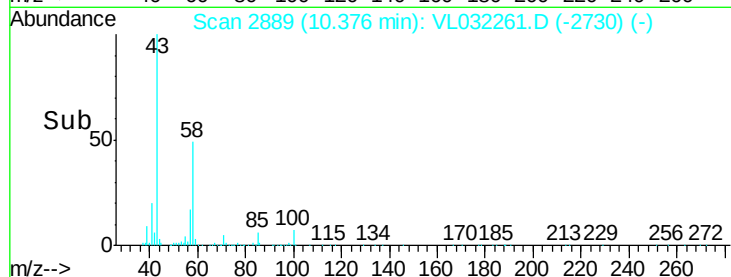
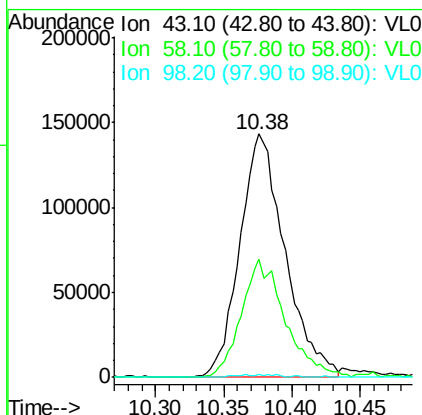
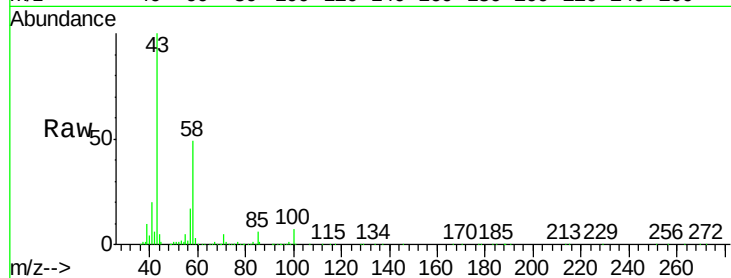
#51
2-Hexanone
Concen: 0.90 ppbv
RT: 10.38 min Scan# 2889
Delta R.T. 0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.7	39.4	59.2
98	1.0	0.2	0.2#

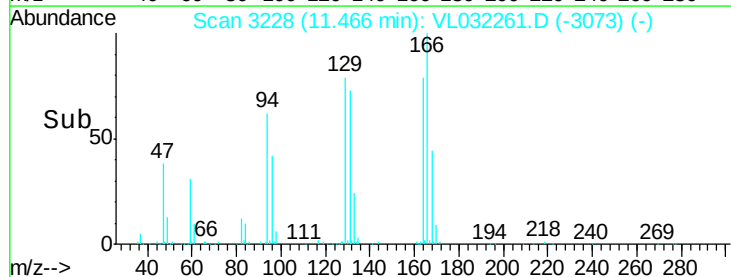
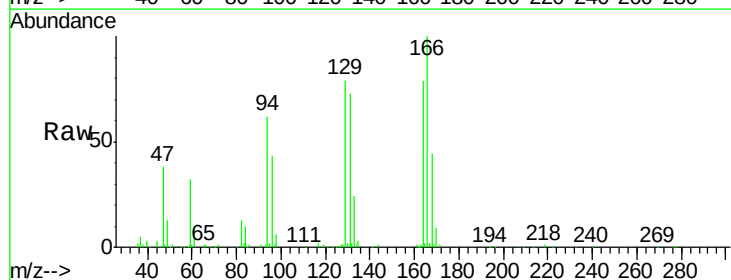
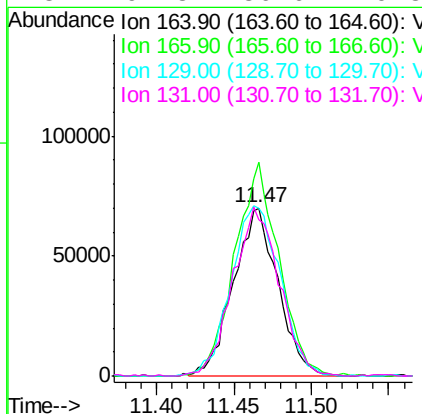
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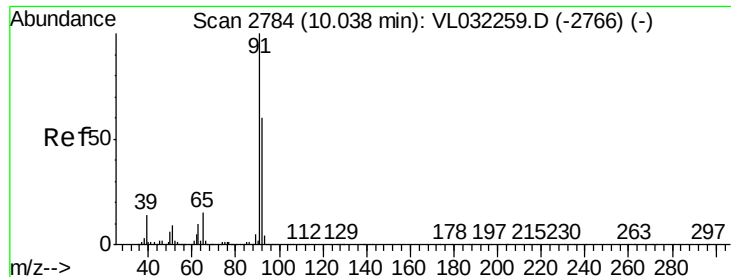
MMDadoda
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#52
Tetrachloroethene
Concen: 1.02 ppbv
RT: 11.47 min Scan# 3228
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	101.7	152.5
129	99.9	91.5	137.3
131	92.8	86.6	129.8





#53

Toluene

Concen: 1.06 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 465942

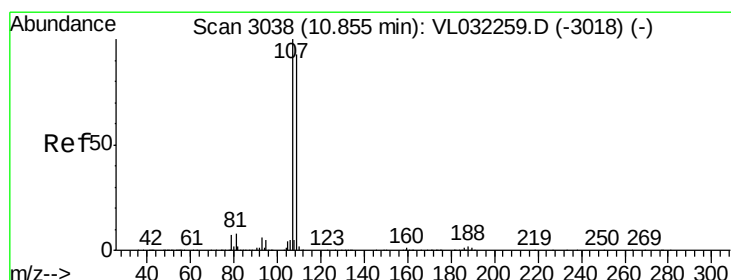
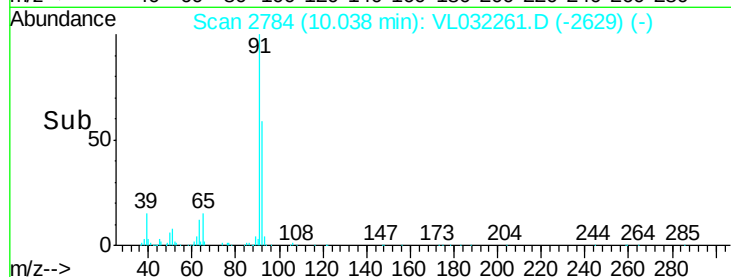
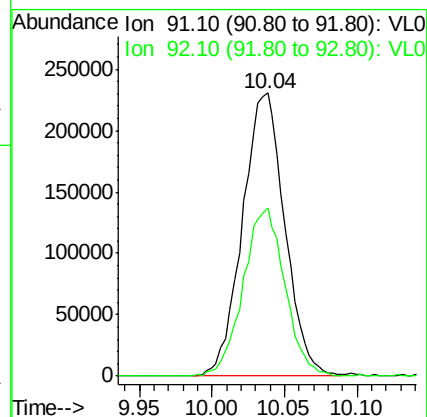
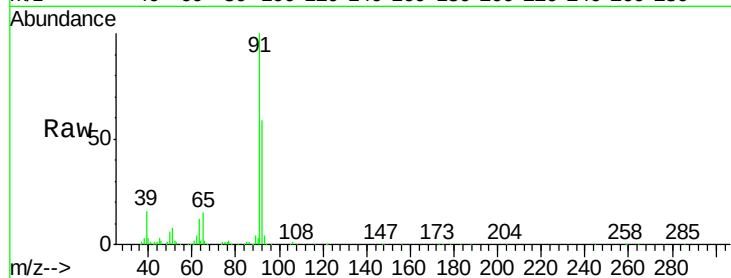
Ion Ratio Lower Upper

91 100

92 58.9 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 1.05 ppbv

RT: 10.85 min Scan# 3037

Delta R.T. -0.00 min

Lab File: VL032261.D

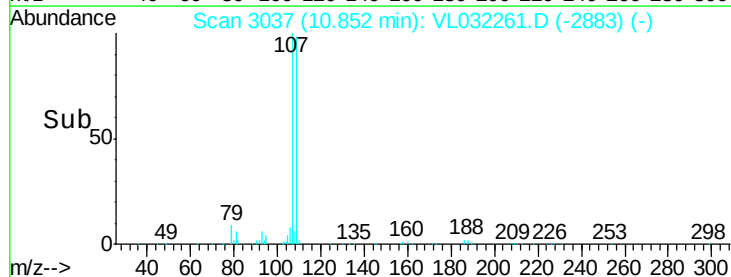
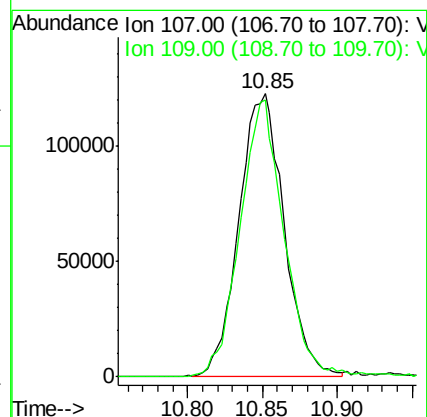
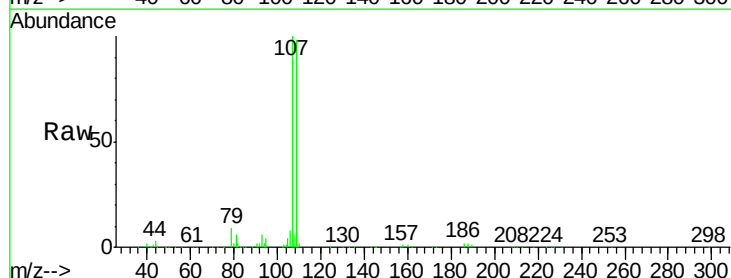
Acq: 18 Jul 2018 10:38

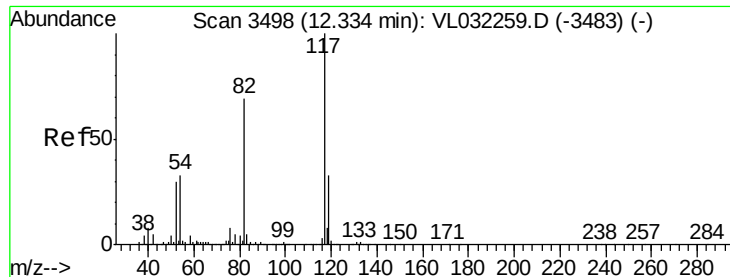
Tgt Ion: 107 Resp: 255408

Ion Ratio Lower Upper

107 100

109 97.5 74.8 112.2





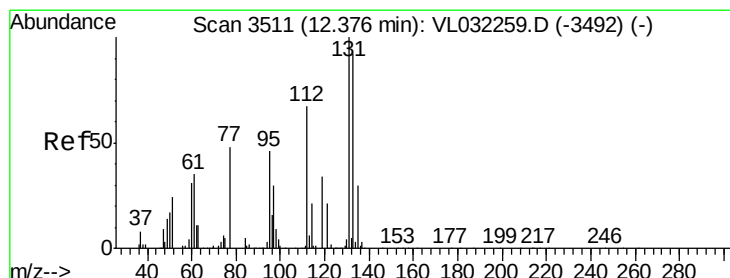
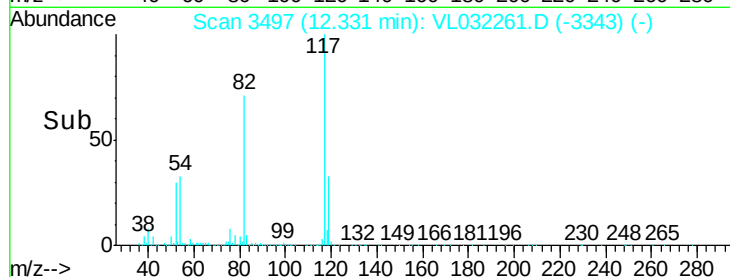
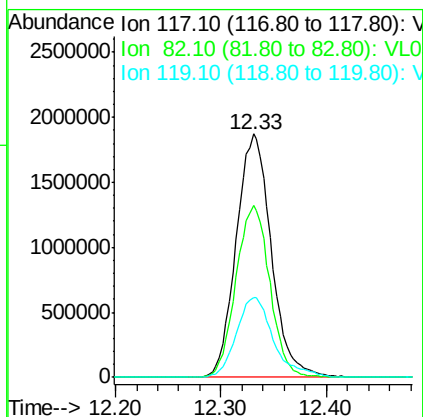
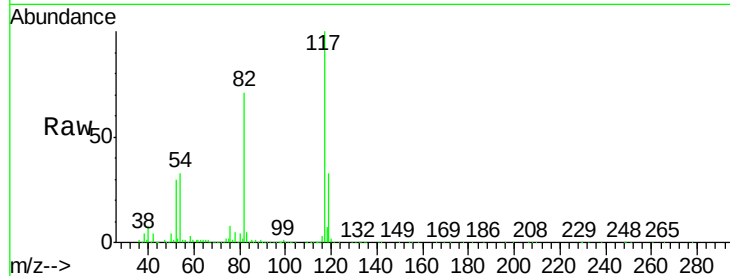
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3497
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.2	53.9	80.9
119	34.9	25.5	38.3

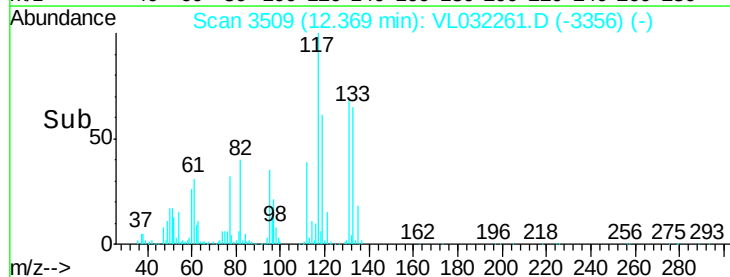
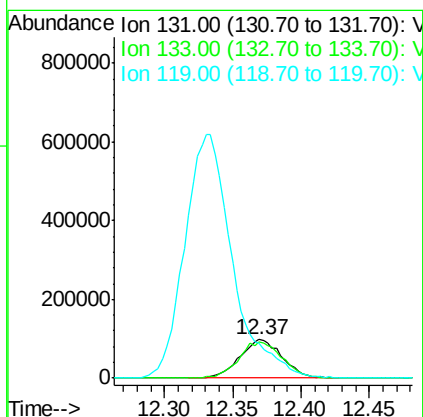
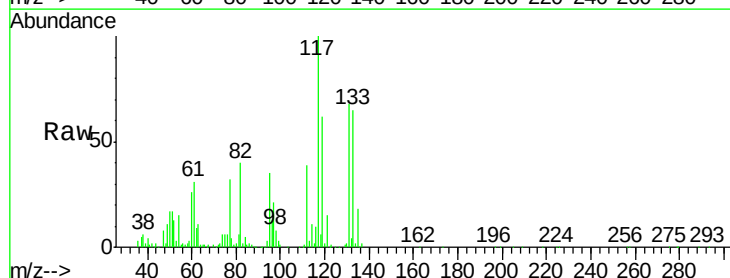
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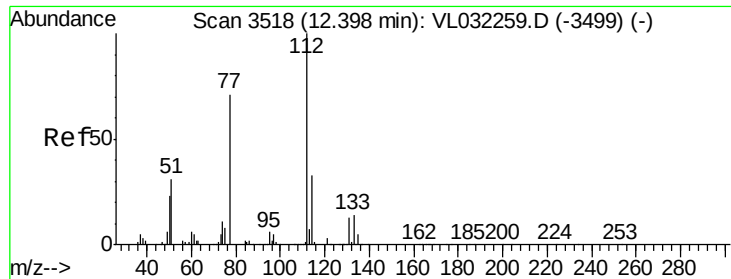
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.12 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.4	75.4	113.0
119	717.7	49.4	74.2#





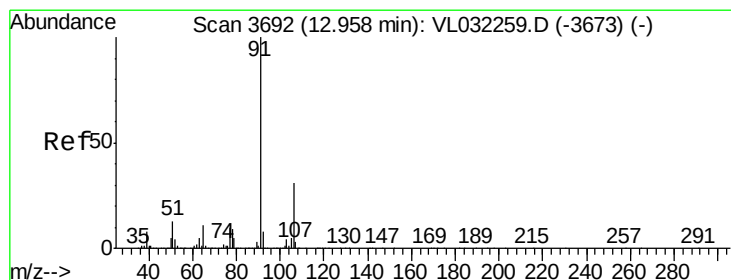
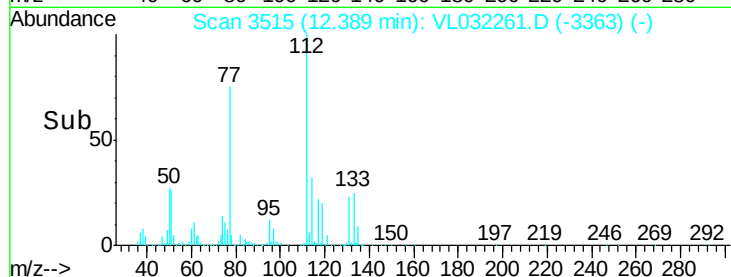
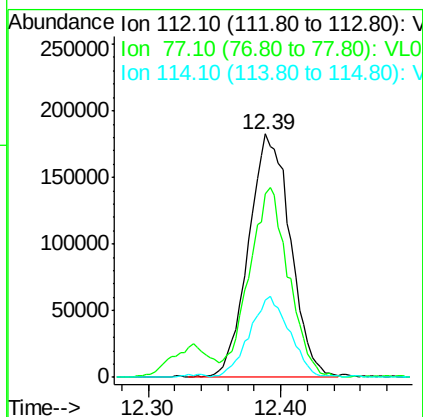
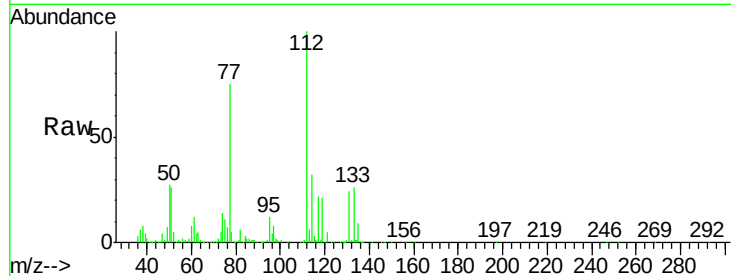
#57
Chlorobenzene
Concen: 1.08 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
112	100		
77	74.8	58.2	87.4
114	31.3	29.5	36.1

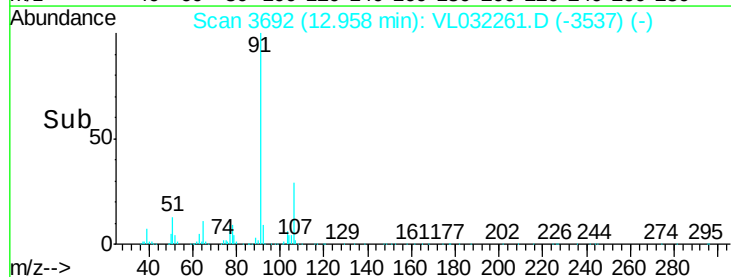
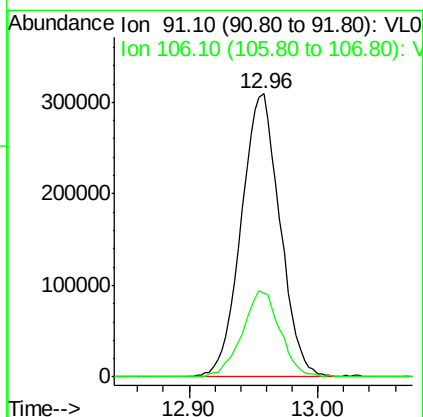
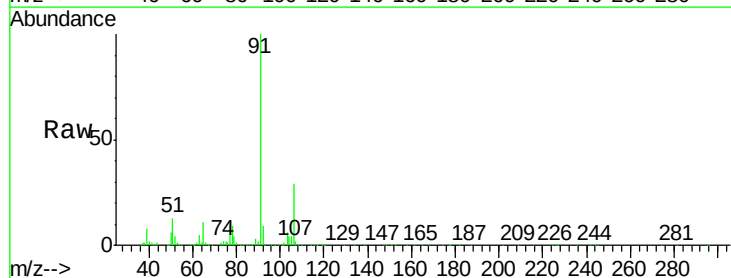
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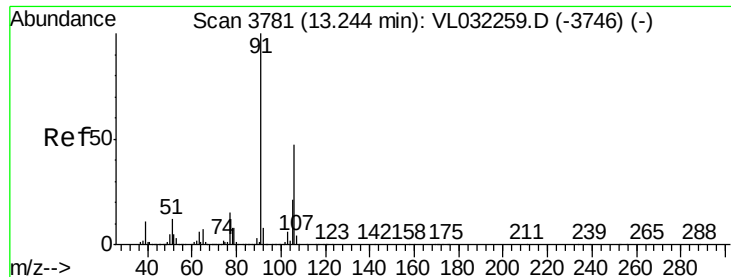
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#58
Ethyl Benzene
Concen: 1.02 ppbv
RT: 12.96 min Scan# 3692
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.4	24.5	36.7





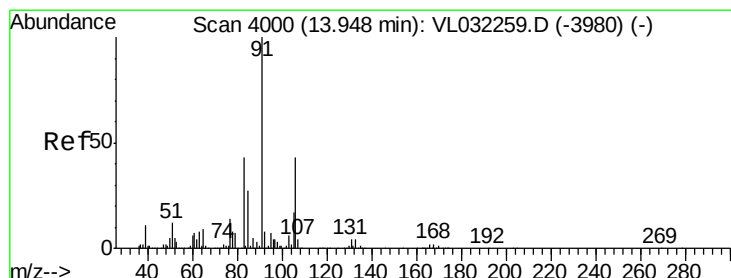
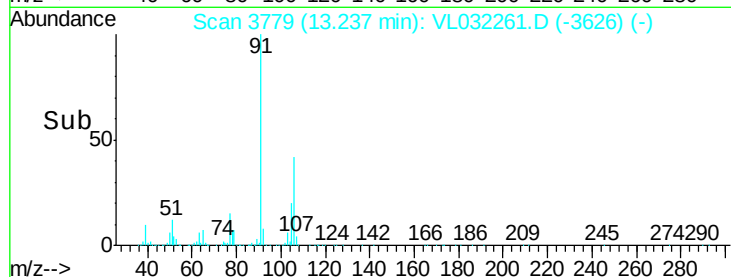
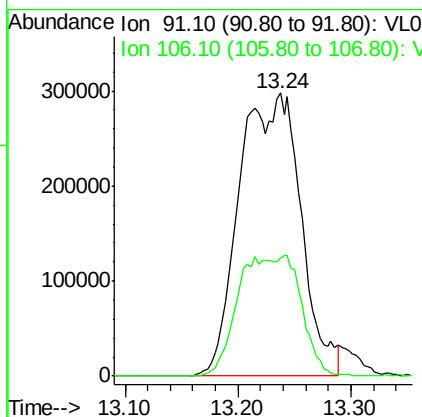
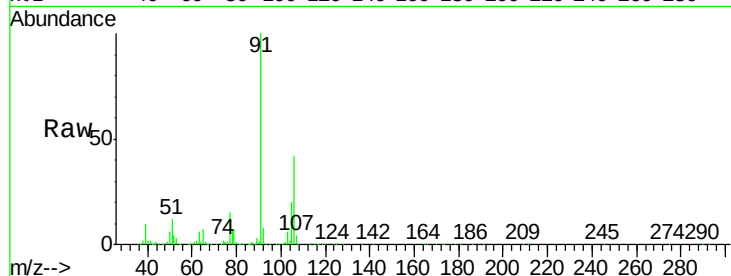
#59
m/p-Xylene
Concen: 2.17 ppbv m
RT: 13.24 min Scan# 3779
Delta R.T. -0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 1125101
Ion Ratio Lower Upper
91 100
106 43.6 36.2 54.2

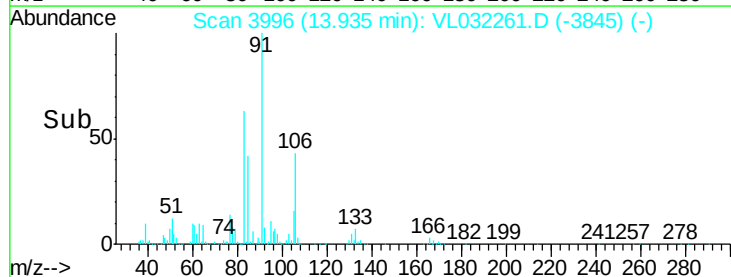
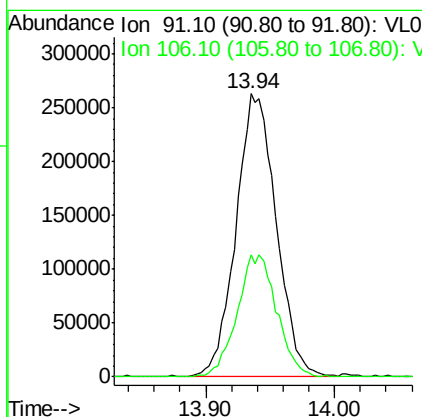
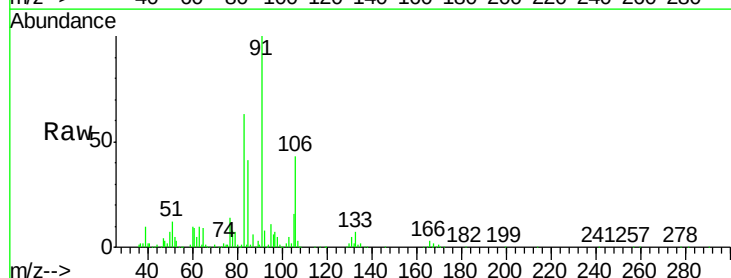
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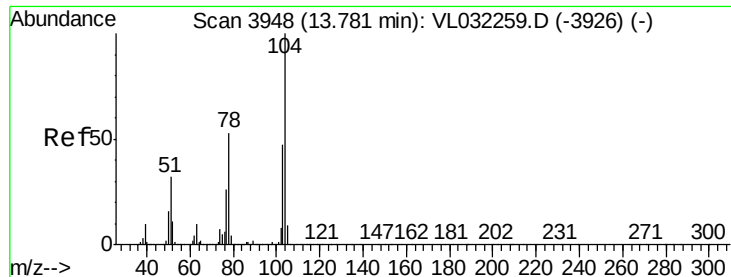
MMDadoda
7/20/2018 2:53:04 PM



#60
o-Xylene
Concen: 1.11 ppbv
RT: 13.94 min Scan# 3996
Delta R.T. -0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion: 91 Resp: 569197
Ion Ratio Lower Upper
91 100
106 42.7 21.7 65.1





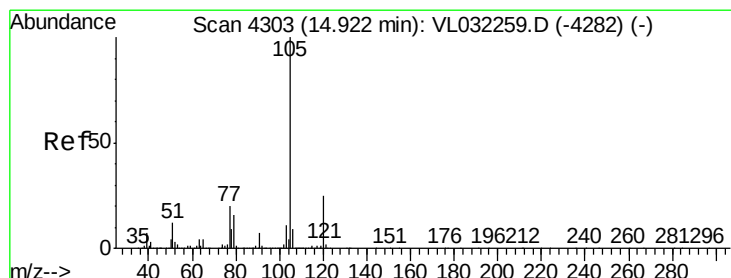
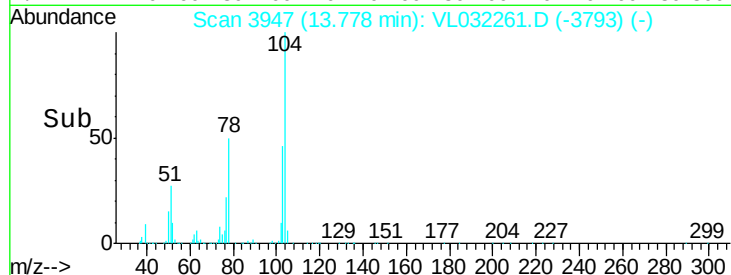
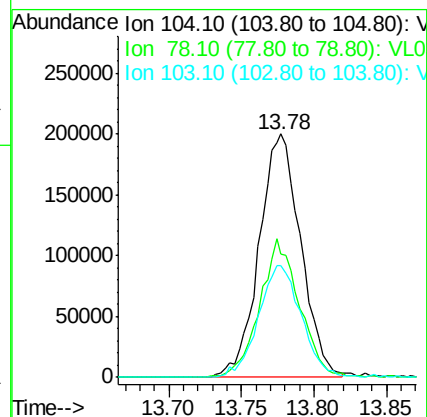
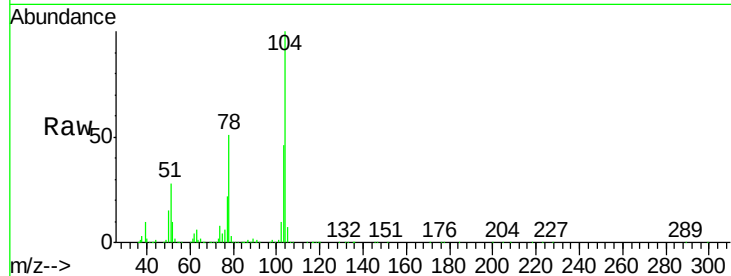
#61
Stvrene
Concen: 1.04 ppbv
RT: 13.78 min Scan# 3947
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.3	43.2	64.8
103	47.6	37.8	56.6

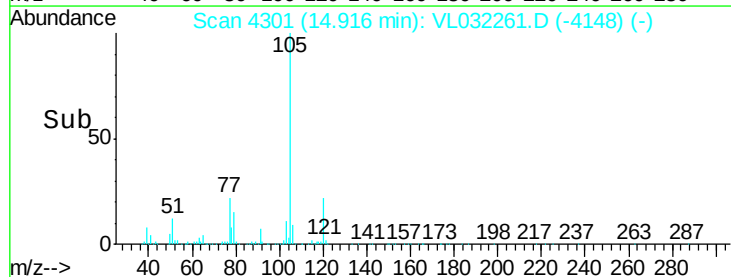
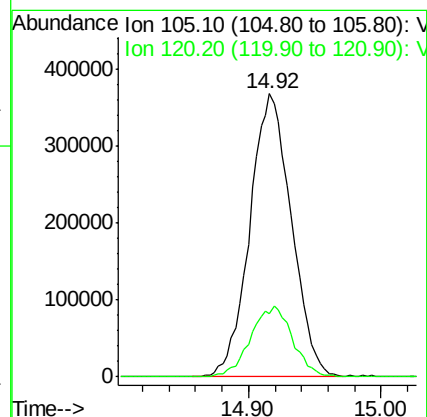
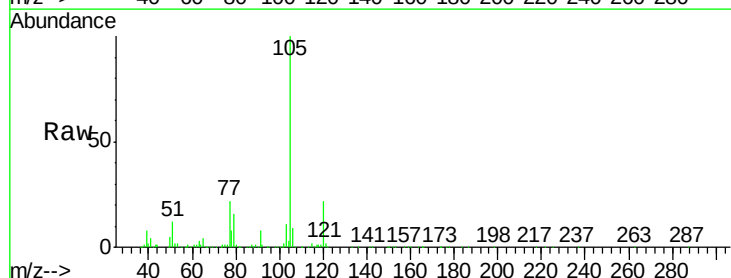
Manual Integrations
APPROVED

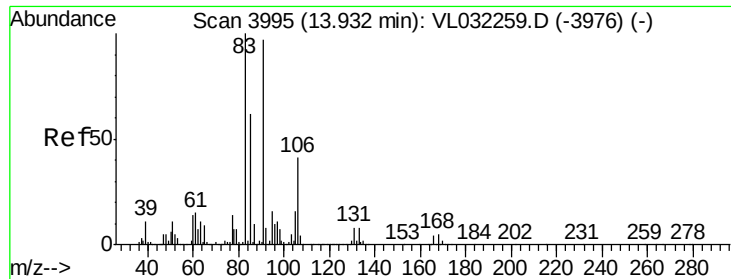
MMDadoda
7/20/2018 2:53:04 PM



#62
Isopropylbenzene
Concen: 1.12 ppbv
RT: 14.92 min Scan# 4301
Delta R.T. -0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.2	30.4





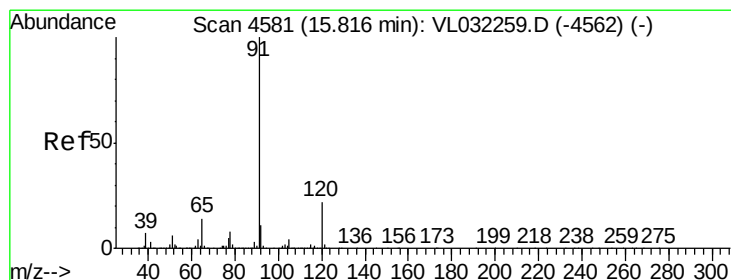
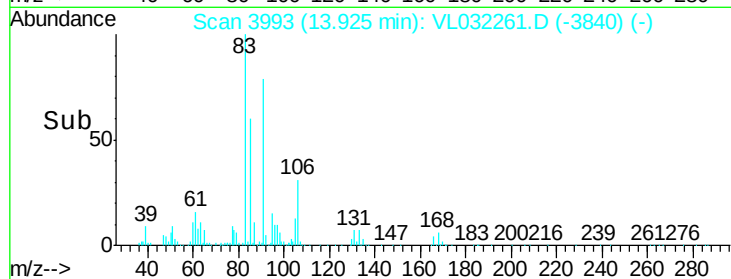
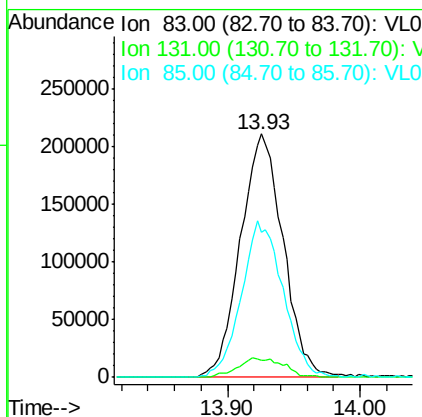
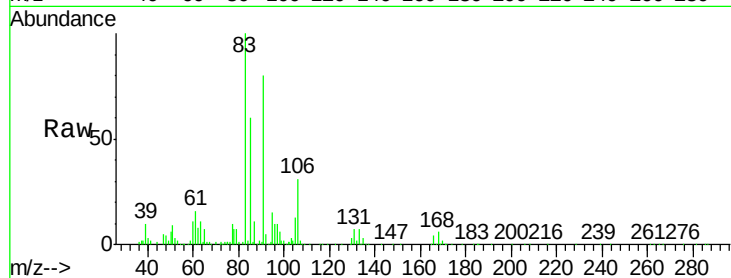
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.13 ppbv
 RT: 13.93 min Scan# 3993
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.2	12.6
85	63.0	32.2	96.6

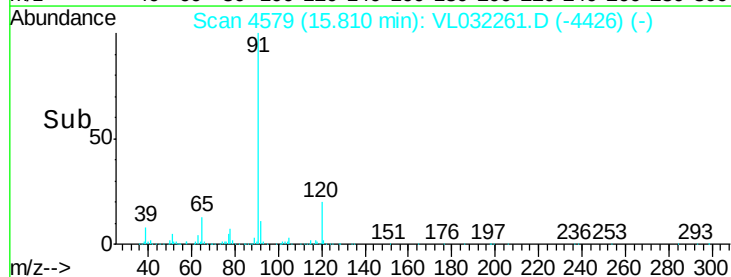
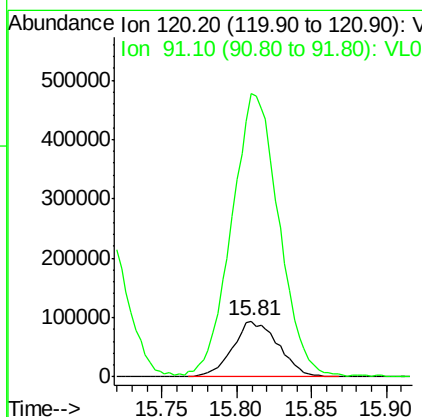
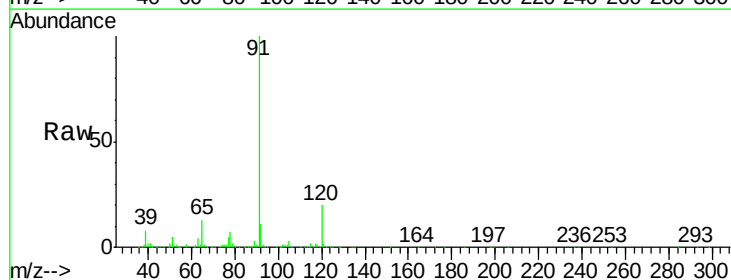
Manual Integrations
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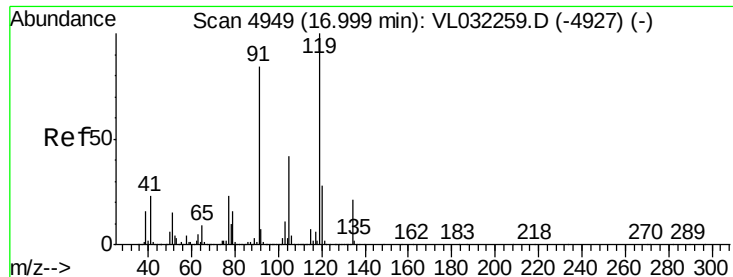
MMDadoda
 7/20/2018 2:53:04 PM



#64
 n-propylbenzene
 Concen: 1.09 ppbv
 RT: 15.81 min Scan# 4579
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
120	100		
91	530.0	384.4	576.6





#65

tert-Butylbenzene

Concen: 1.17 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

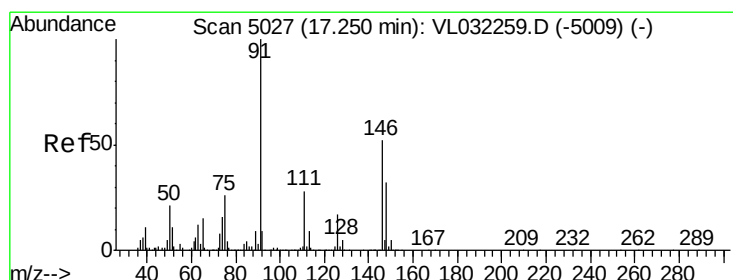
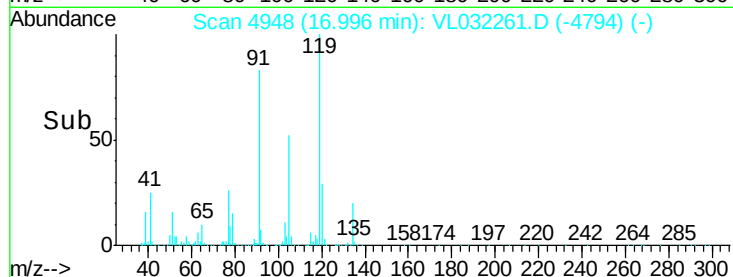
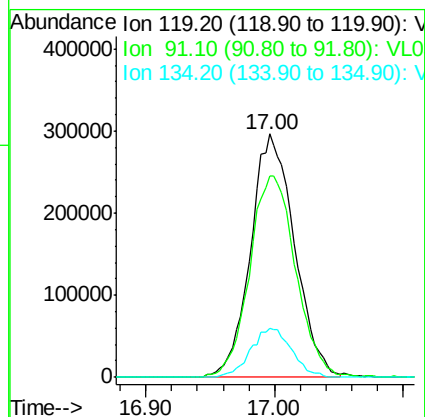
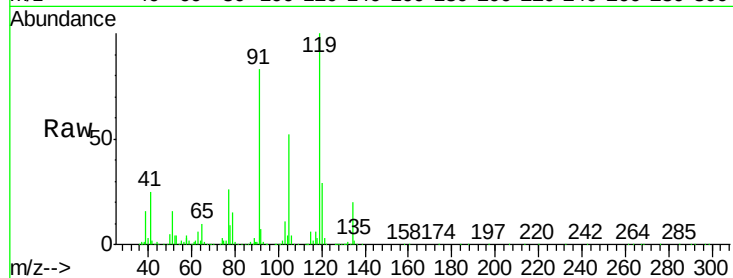
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	701157
Ion Ratio	Lower	Upper	
119	100		
91	87.2	68.2	102.4
134	19.2	15.6	23.4

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#66

Benzyl Chloride

Concen: 1.07 ppbv

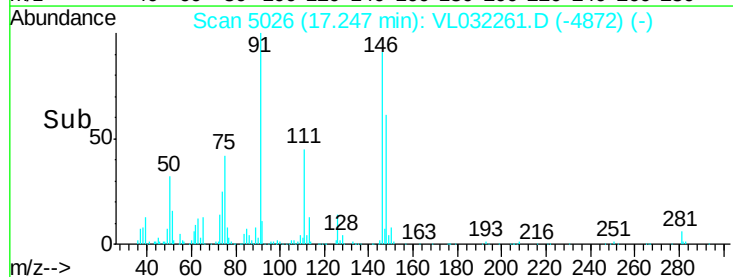
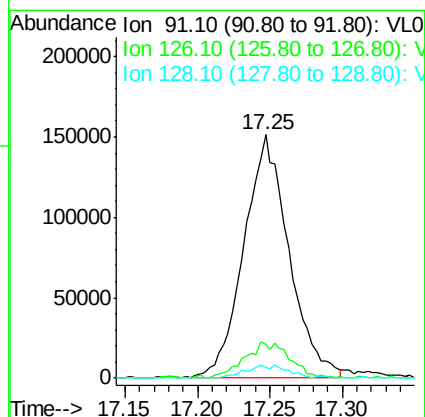
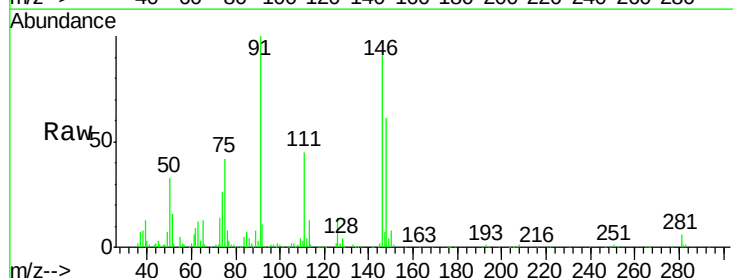
RT: 17.25 min Scan# 5026

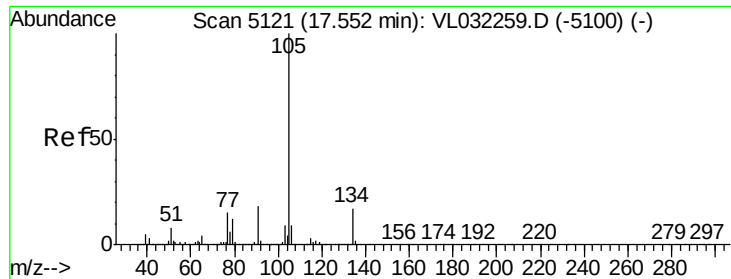
Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion:	91	Resp:	324970
Ion Ratio	Lower	Upper	
91	100		
126	15.2	13.4	20.2
128	5.4	4.3	6.5





#67

sec-Butylbenzene

Concen: 1.17 ppbv

RT: 17.55 min Scan# 5120

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 1029542

Ion Ratio Lower Upper

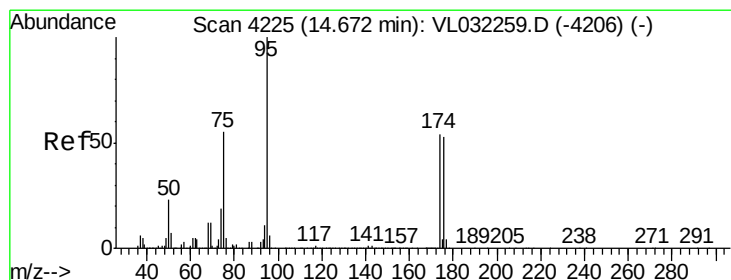
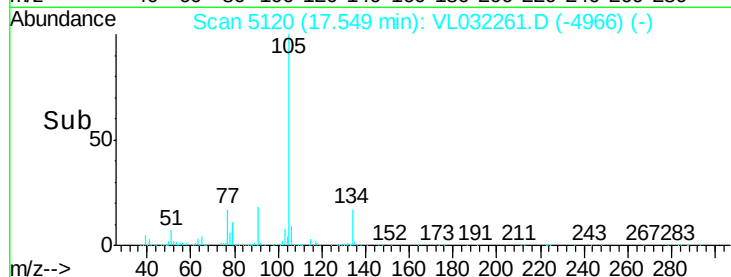
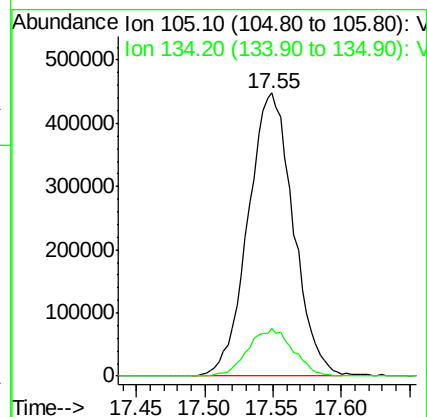
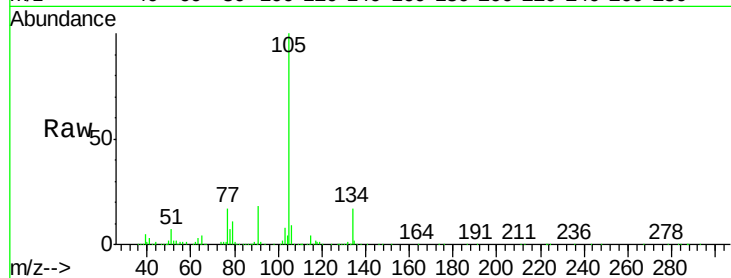
105 100

134 16.9 14.0 21.0

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.07 ppbv

RT: 14.67 min Scan# 4224

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

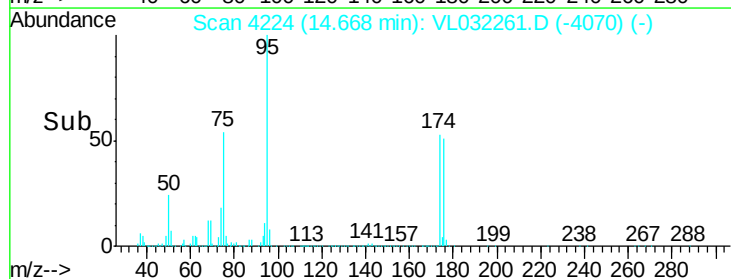
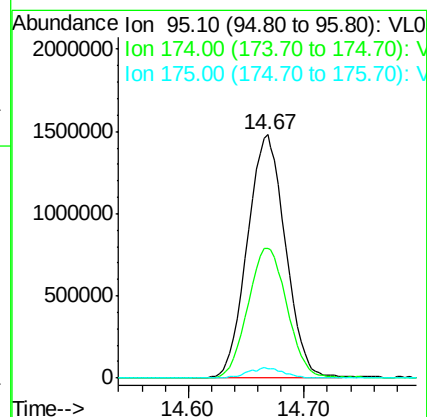
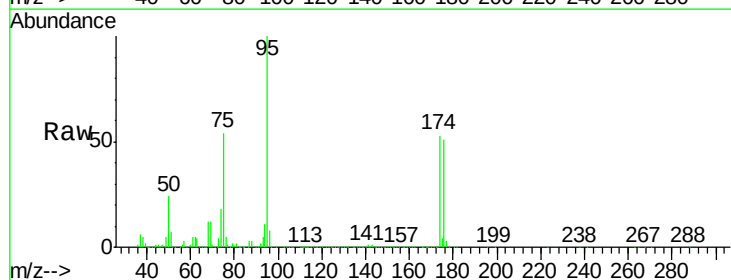
Tgt Ion: 95 Resp: 3378711

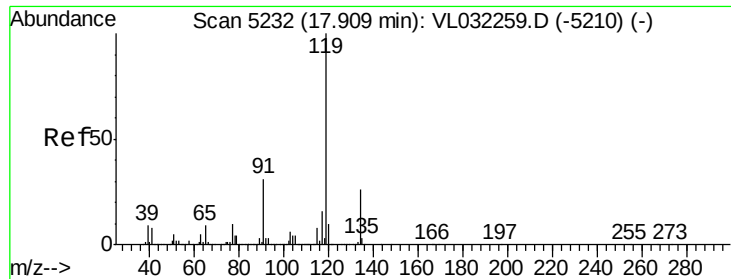
Ion Ratio Lower Upper

95 100

174 55.3 44.3 66.5

175 4.0 3.3 4.9





#69

p-Isopropyltoluene

Concen: 1.14 ppbv m

RT: 17.91 min Scan# 5231

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

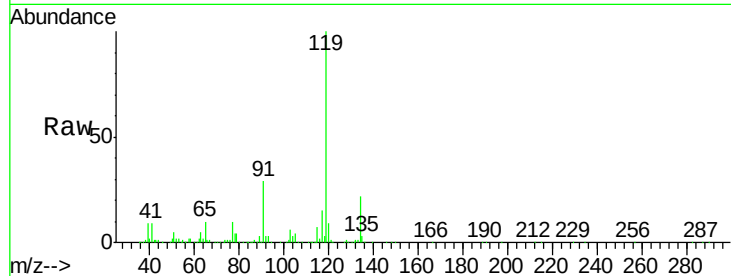
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	783095
Ion Ratio	Lower	Upper	
119	100		
134	24.7	20.3	30.5
91	29.9	24.1	36.1

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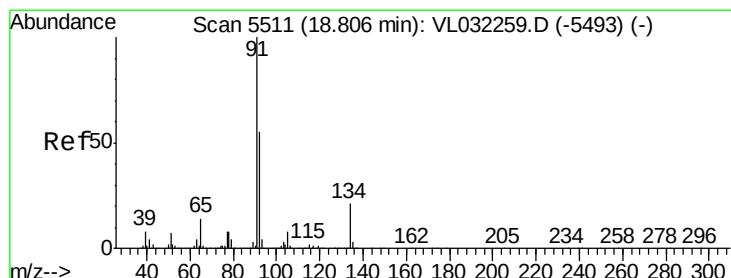
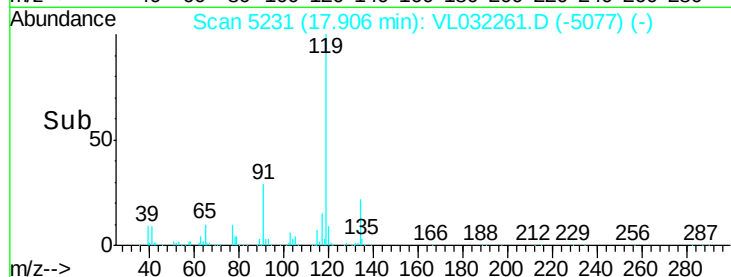


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V

Time--> 17.80 17.90 18.00



#70

n-Butylbenzene

Concen: 1.20 ppbv

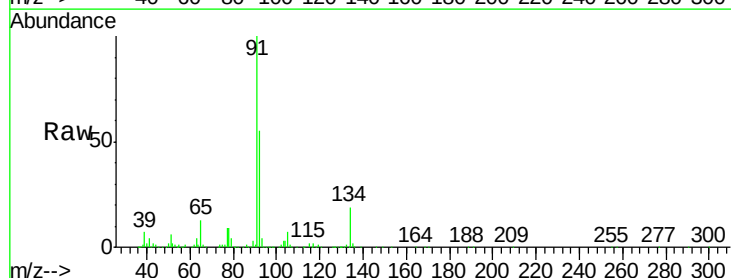
RT: 18.81 min Scan# 5511

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion:	91	Resp:	907013
Ion Ratio	Lower	Upper	
91	100		
92	54.1	43.8	65.6
134	20.4	17.1	25.7

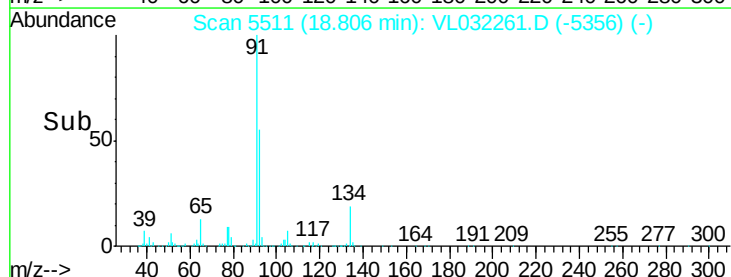


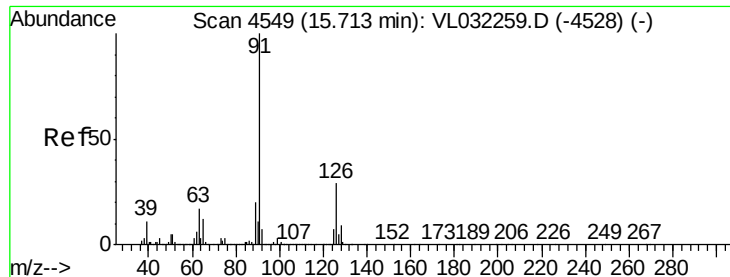
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

Time--> 18.70 18.75 18.80 18.85





#71

2-Chlorotoluene

Concen: 1.11 ppbv

RT: 15.71 min Scan# 4548

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 630144

Ion Ratio Lower Upper

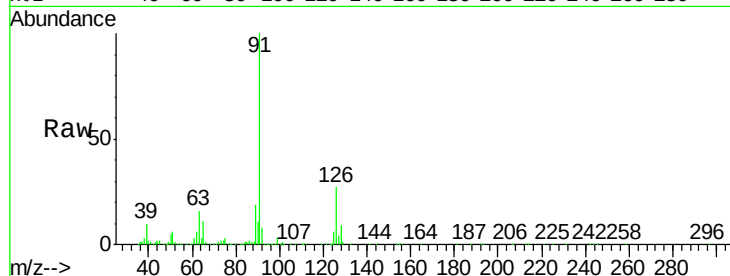
91 100

126 27.7 11.6 46.2

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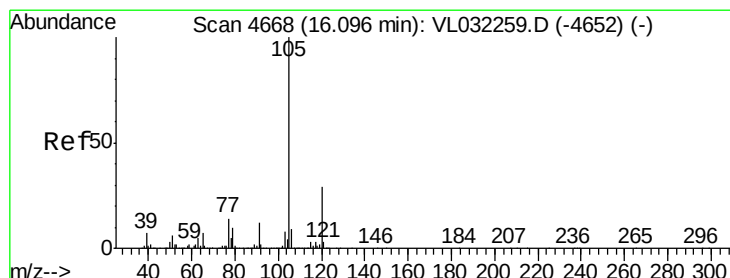
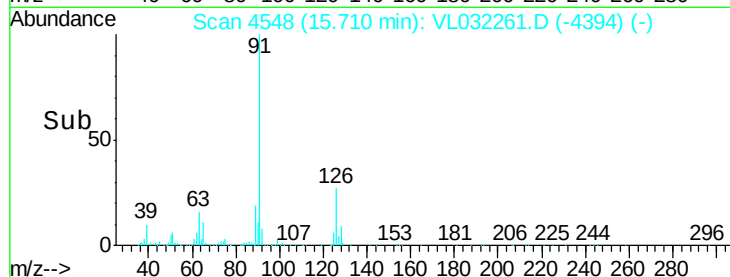
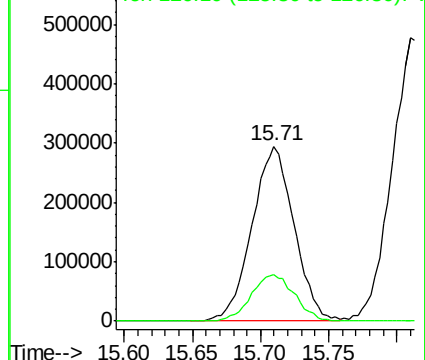
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 1.09 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion: 105 Resp: 626061

Ion Ratio Lower Upper

105 100

120 29.1 23.0 34.6

91 13.8 10.1 15.1

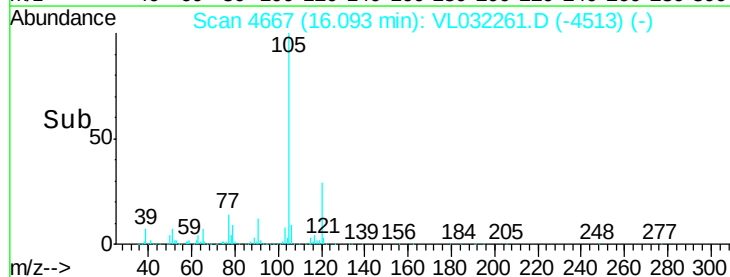
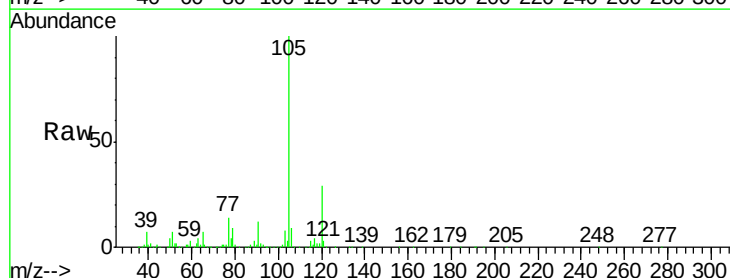
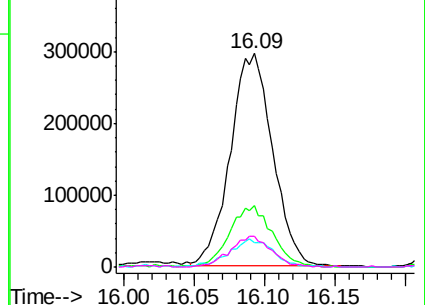
77 14.3 11.4 17.0

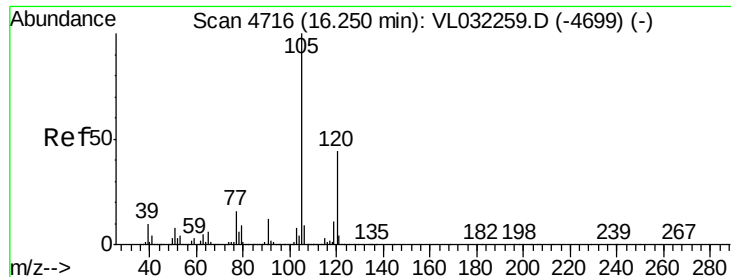
Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.17 ppbv

RT: 16.25 min Scan# 4715

Delta R.T. -0.00 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 622974

Ion Ratio Lower Upper

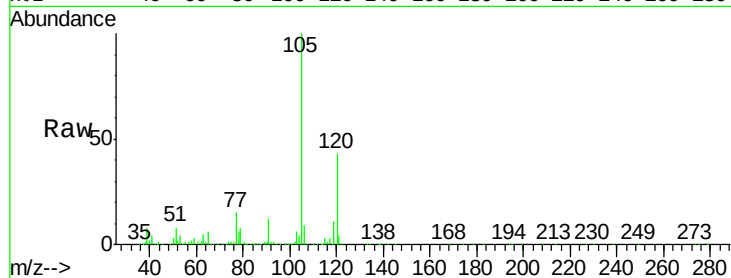
105 100

120 43.0 35.5 53.3

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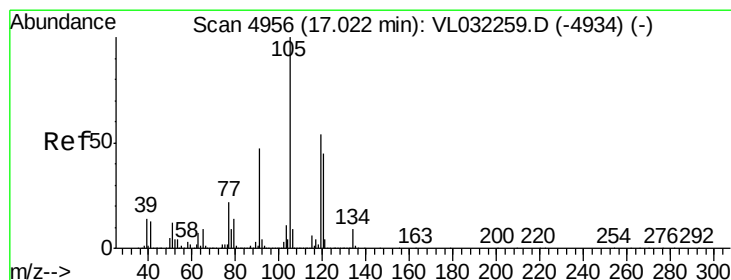
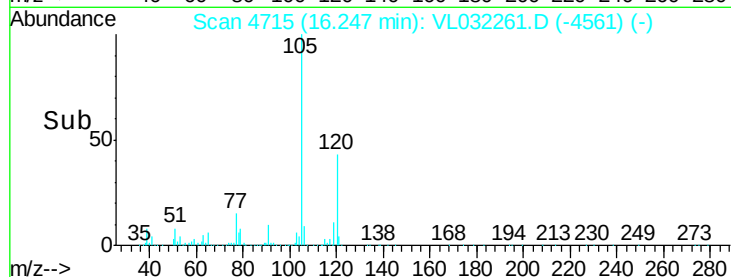
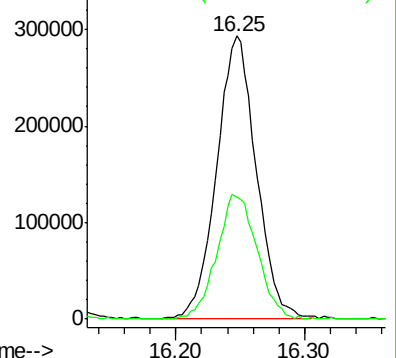
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.26 ppbv

RT: 17.01 min Scan# 4953

Delta R.T. -0.01 min

Lab File: VL032261.D

Acq: 18 Jul 2018 10:38

Tgt Ion:105 Resp: 686818

Ion Ratio Lower Upper

105 100

120 43.8 35.8 53.6

91 55.2 38.2 57.4

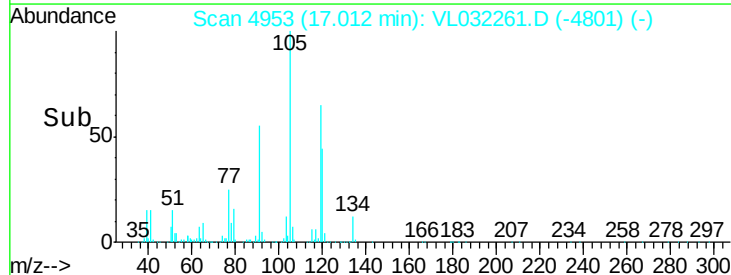
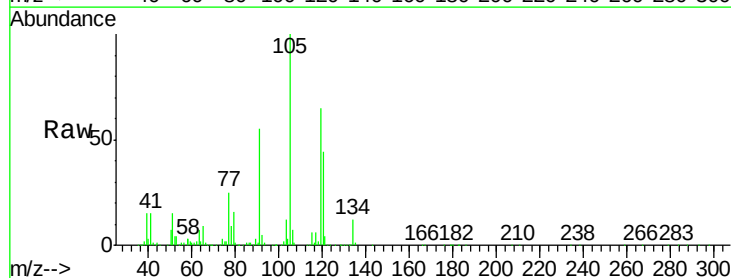
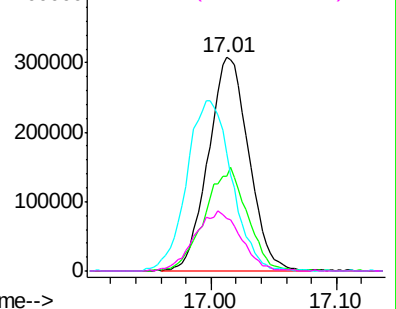
77 24.5 17.5 26.3

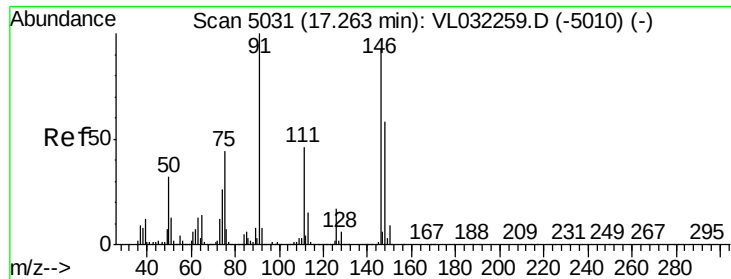
Abundance Ion 105.10 (104.80 to 105.80): V

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





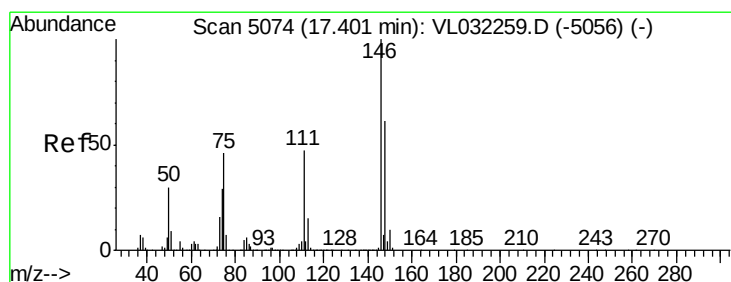
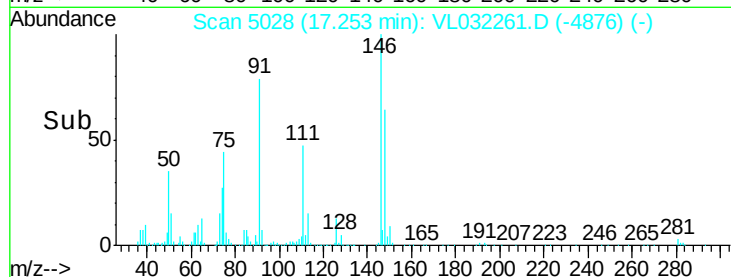
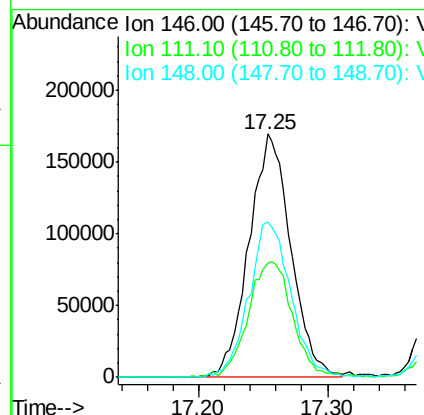
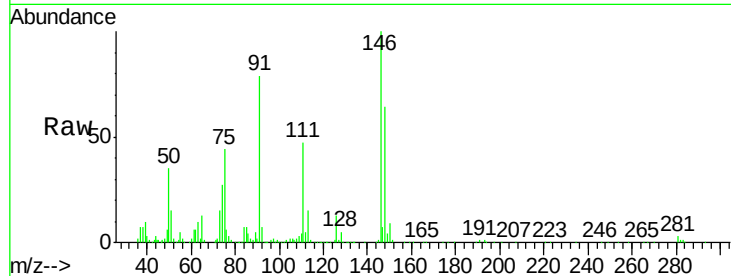
#75
 1,3-Dichlorobenzene
 Concen: 1.17 ppbv
 RT: 17.25 min Scan# 5028
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.0	25.1	75.4
148	64.7	31.8	95.3

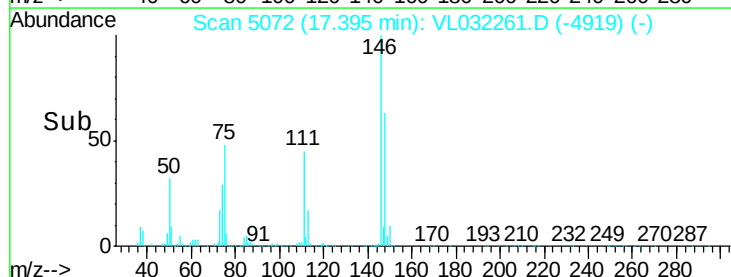
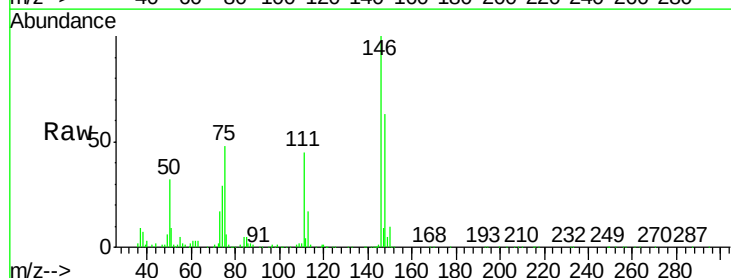
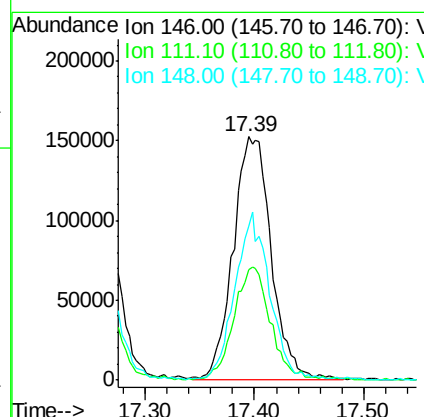
Manual Integrations
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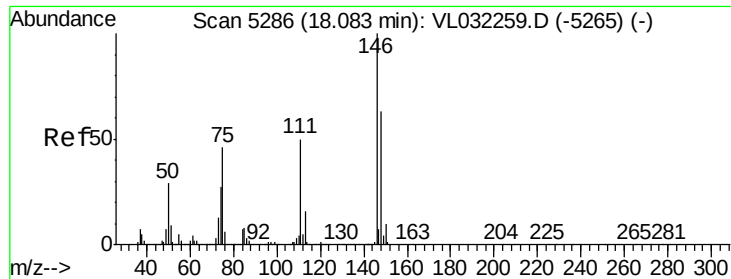
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#76
 1,4-Dichlorobenzene
 Concen: 1.16 ppbv m
 RT: 17.39 min Scan# 5072
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.1	72.2#
148	0.0	31.9	95.9#





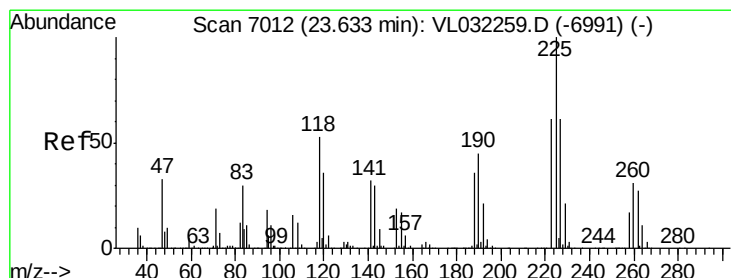
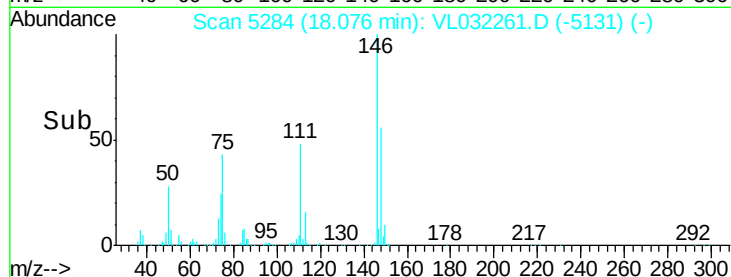
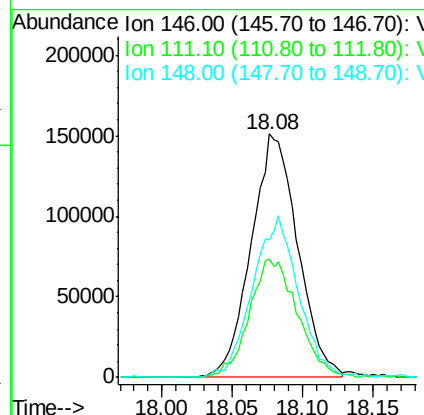
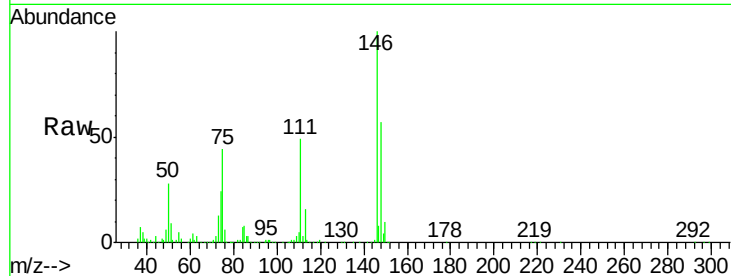
#77
 1,2-Dichlorobenzene
 Concen: 1.08 ppbv
 RT: 18.08 min Scan# 5284
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.2	25.6	76.8
148	65.7	31.9	95.5

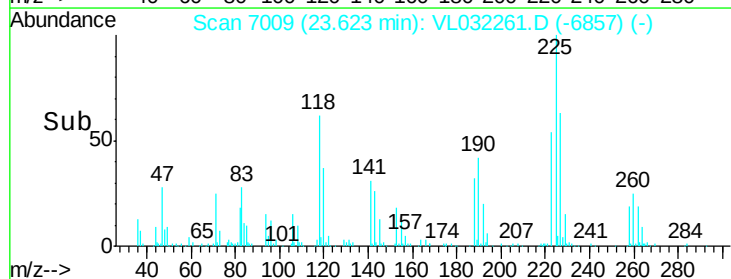
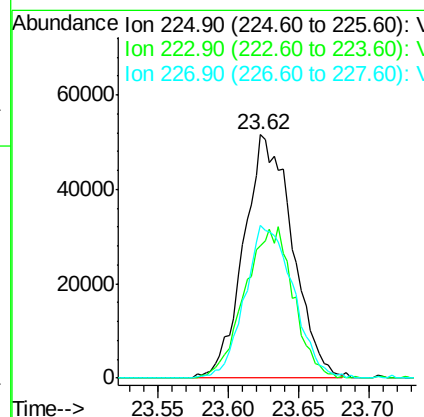
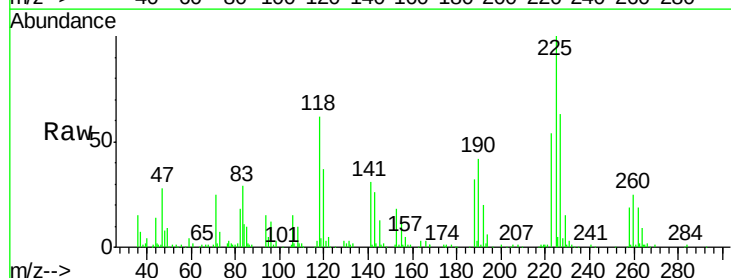
Manual Integrations
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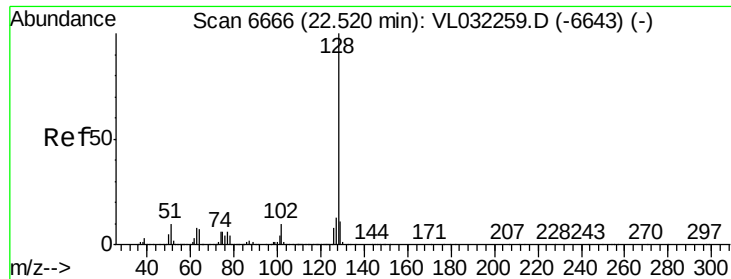
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.23 ppbv
 RT: 23.62 min Scan# 7009
 Delta R.T. -0.01 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	50.6	75.8
227	62.4	51.5	77.3





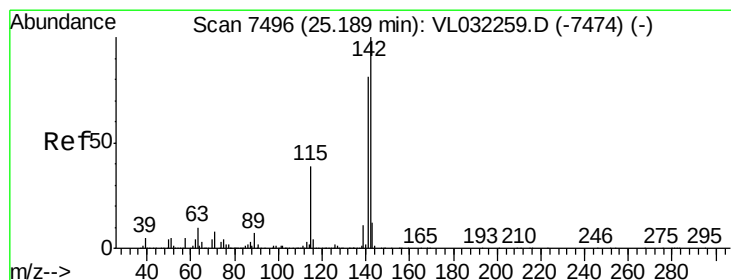
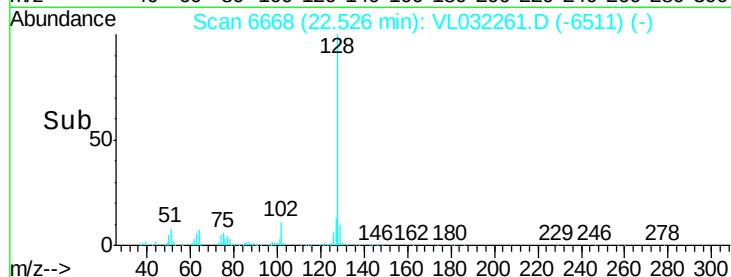
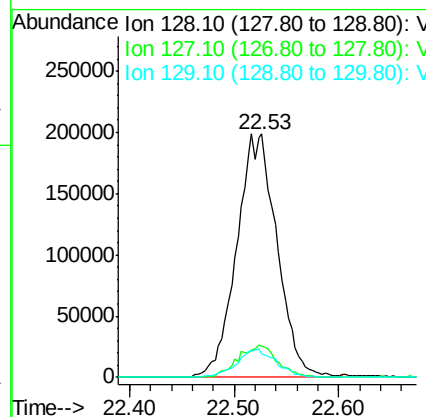
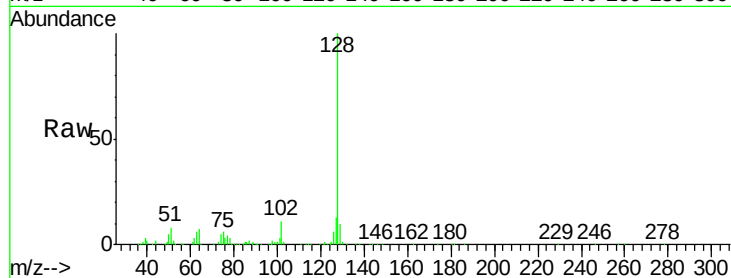
#79
Naphthalene
Concen: 1.46 ppbv m
RT: 22.53 min Scan# 6668
Delta R.T. 0.01 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	9.6	8.6	12.8

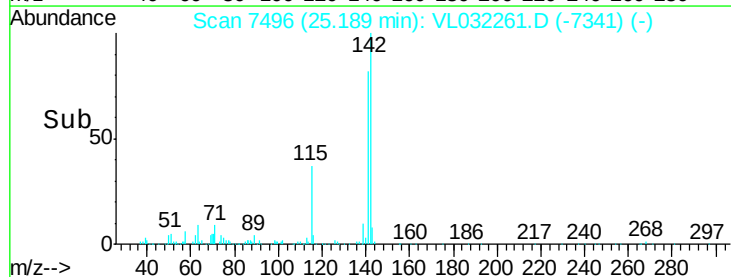
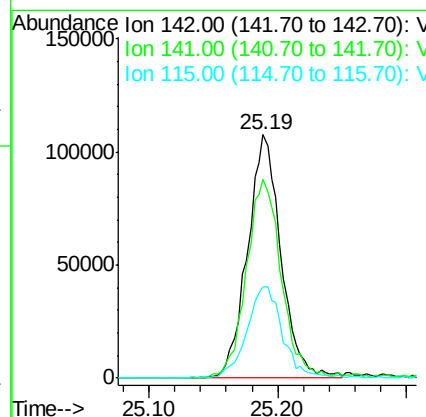
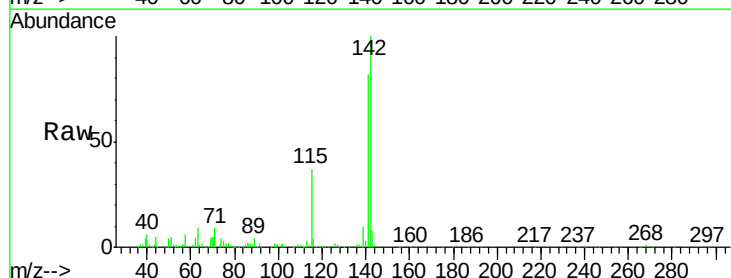
Manual Integrations
APPROVED

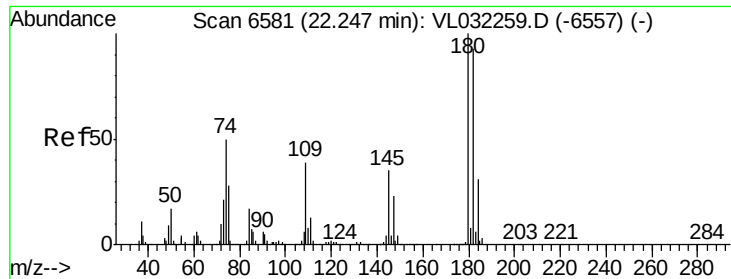
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7/20/2018 2:53:04 PM



#80
Naphthalene, 2-methyl-
Concen: 1.66 ppbv
RT: 25.19 min Scan# 7496
Delta R.T. -0.00 min
Lab File: VL032261.D
Acq: 18 Jul 2018 10:38

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.6	67.1	100.7
115	40.5	32.5	48.7





#81
 1,2,4-Trichlorobenzene
 Concen: 1.47 ppbv m
 RT: 22.25 min Scan# 6581
 Delta R.T. -0.00 min
 Lab File: VL032261.D
 Acq: 18 Jul 2018 10:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.6	114.8
184	30.5	24.4	36.6

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:04 PM

