

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121318\
 Data File : VL032984.D
 Acq On : 13 Dec 2018 14:26
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 11:18:48 AM

Quant Time: Dec 14 02:36:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1336001	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3405450	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3364398m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2536668	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1856995	10.412	ppbv	99
3) Chlorodifluoromethane	3.02	51	1021344	10.094	ppbv	98
4) Chloromethane	3.17	50	564211	9.578	ppbv	96
5) Vinyl Chloride	3.29	62	572821	9.557	ppbv	98
6) Bromomethane	3.52	94	381714	10.183	ppbv	94
7) Chloroethane	3.60	64	219664	10.226	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1459939	9.850	ppbv	100
9) Propene	3.04	41	420690	10.515	ppbv	98
10) Heptane	8.25	43	1436973	9.562	ppbv	100
11) Trichlorofluoromethane	4.01	101	1617597	9.627	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1341959	9.361	ppbv	98
13) Ethanol	3.65	45	98926	7.182	ppbv	95
14) Bromoethene	3.79	108	490288	10.301	ppbv	99
15) Acetone	3.90	43	1022076	8.913	ppbv	99
16) 1,3-Butadiene	3.36	39	452354	9.943	ppbv	92
17) tert-Butyl alcohol	4.37	59	332910m	11.403	ppbv	
18) 1,1-Dichloroethene	4.35	96	617602	10.999	ppbv	95
19) Isopropyl Alcohol	4.03	45	714395	9.920	ppbv	100
20) Methylene Chloride	4.41	84	524348	9.356	ppbv	96
21) Allyl Chloride	4.48	41	963916	10.315	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	627068	8.999	ppbv	100
23) Vinyl Acetate	5.16	43	2311100	11.903	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1764703	10.453	ppbv	99
25) Ethyl Acetate	5.77	43	2653196	9.795	ppbv	99
26) Hexane	5.78	57	1223435	9.782	ppbv	99
27) Carbon Disulfide	4.62	76	1559510	9.973	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2202893	11.728	ppbv	100
29) Chloroform	5.86	83	2040132	9.142	ppbv	97
30) Cyclohexane	7.25	84	1091226	10.527	ppbv	100
31) cis-1,2-Dichloroethene	5.65	61	1169416	10.190	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	2242826	9.499	ppbv	99
34) 2-Butanone	5.33	43	1687613	11.377	ppbv	99
35) Carbon Tetrachloride	7.14	117	2369990	8.854	ppbv	100
36) Benzene	7.01	78	2350189	9.383	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1567717	9.193	ppbv	99
38) Trichloroethene	7.97	130	1035145	9.930	ppbv	99
39) 1,2-Dichloropropane	7.74	63	877765	9.240	ppbv	96
40) 1,4-Dioxane	7.97	88	339545	9.704	ppbv #	97
41) Tetrahydrofuran	6.15	42	1007443	10.920	ppbv	99
42) Bromodichloromethane	7.92	83	2133759	9.031	ppbv	99
43) Methyl Methacrylate	8.15	69	950194	10.238	ppbv	100

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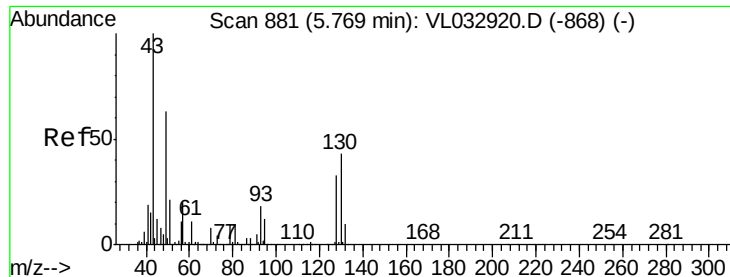
Manual Integrations
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Quant Time: Dec 14 02:36:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4325659	10.174	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1432717	12.590	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1657221	11.898	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1093089	10.454	ppbv	97
48) Dibromochloromethane	10.46	129	2012957	10.262	ppbv	100
49) Bromoform	13.21	173	1786206	11.072	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2494827	10.518	ppbv	100
51) 2-Hexanone	10.28	43	1847400	11.484	ppbv #	99
52) Tetrachloroethene	11.38	164	996954	10.942	ppbv	98
53) Toluene	9.96	91	3039923	11.443	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1675924	10.260	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	1414353	9.429	ppbv	97
57) Chlorobenzene	12.31	112	2318339	9.541	ppbv	98
58) Ethyl Benzene	12.87	91	4076876	11.359	ppbv	100
59) m/p-Xylene	13.15	91	7120674m	21.883	ppbv	
60) o-Xylene	13.86	91	3372238	10.262	ppbv	99
61) Styrene	13.69	104	2622862	11.999	ppbv	100
62) Isopropylbenzene	14.83	105	5059791	11.036	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2342695	9.181	ppbv	99
64) n-propylbenzene	15.73	120	1226190	10.297	ppbv	100
65) tert-Butylbenzene	16.92	119	4296787	10.109	ppbv	100
66) Benzyl Chloride	17.16	91	2582480	10.962	ppbv	100
67) sec-Butylbenzene	17.46	105	6035773	9.632	ppbv	100
69) p-Isopropyltoluene	17.82	119	5169471	10.179	ppbv	100
70) n-Butylbenzene	18.72	91	5296591	11.336	ppbv	100
71) 2-Chlorotoluene	15.62	91	3587353	10.522	ppbv	100
72) 4-Ethyltoluene	16.01	105	3878245	10.571	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3890223	10.862	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3896124	9.634	ppbv #	91
75) 1,3-Dichlorobenzene	17.17	146	2183659	9.169	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2126338	9.569	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2212062	9.947	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1076161	8.799	ppbv	100
79) Naphthalene	22.42	128	3136182	12.011	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	713699	12.793	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1525728	11.018	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1336001

Ion Ratio Lower Upper

49 100

128 51.9 26.3 78.8

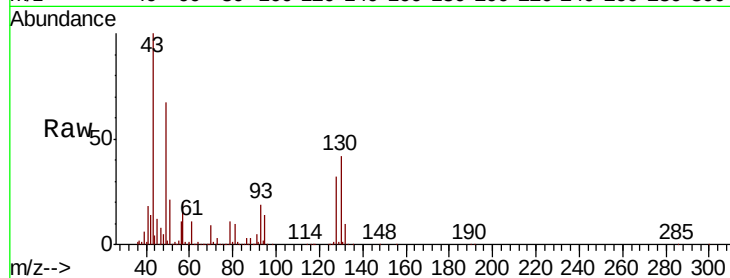
130 66.6 33.9 101.7

Manual Integrations

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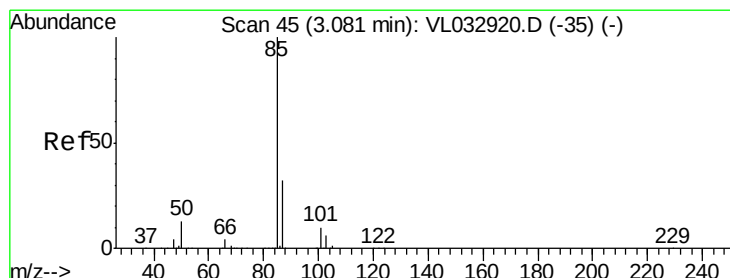
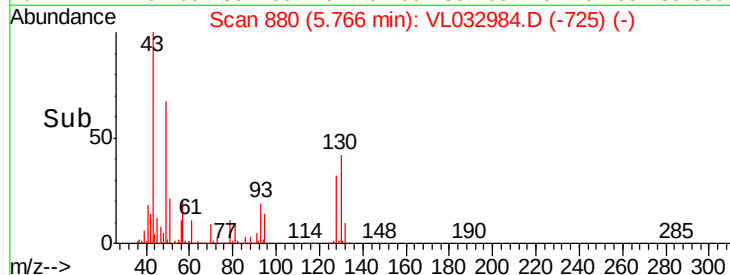
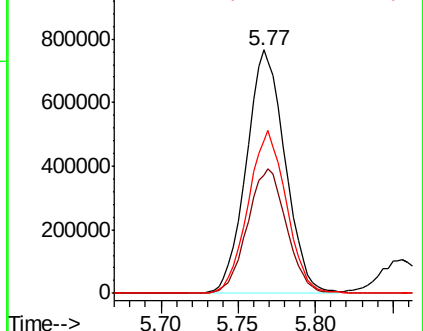
12/14/2018 11:18:48 AM



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: 10.412 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL032984.D

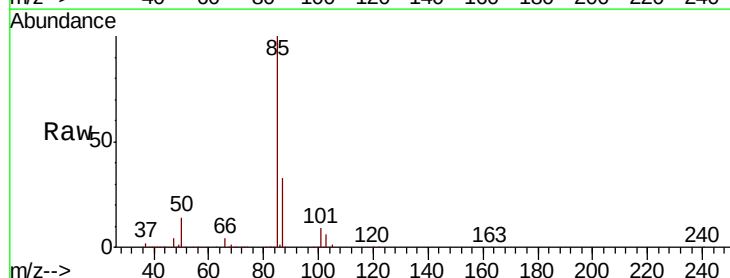
Acq: 13 Dec 2018 14:26

Tgt Ion: 85 Resp: 1856995

Ion Ratio Lower Upper

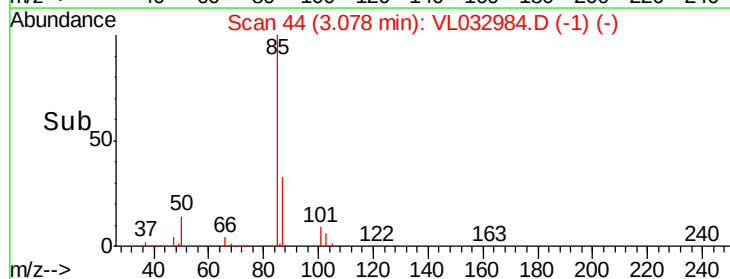
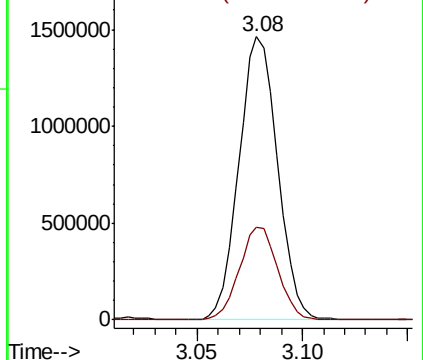
85 100

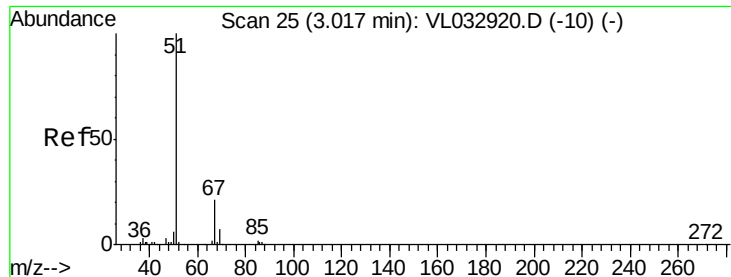
87 32.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.094 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Tot Ion: 51 Resp: 1021344

Ion Ratio Lower Upper

51 100

67 20.2 16.8 25.2

Instrument :

MSVOA_L

ClientSampleId :

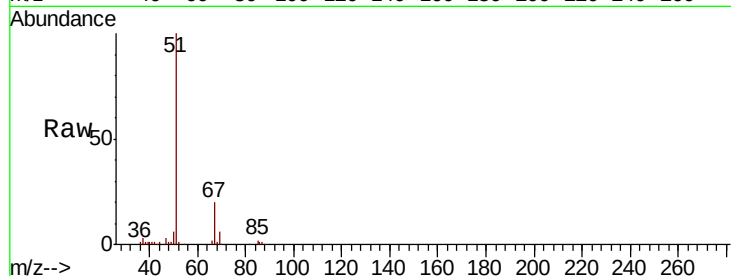
VSTDCCC010

Manual Integrations

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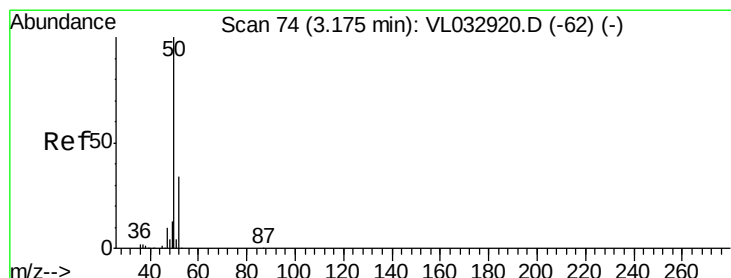
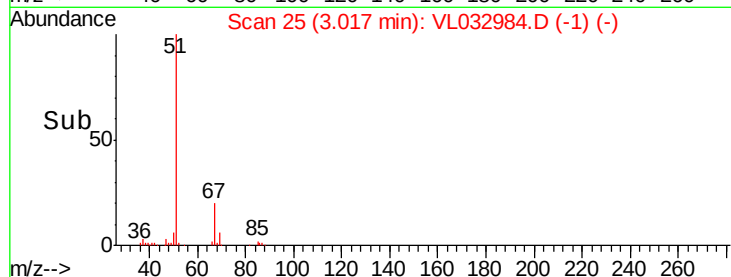
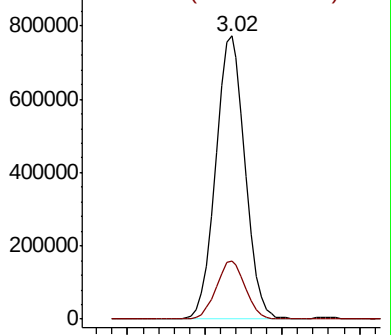
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.578 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL032984.D

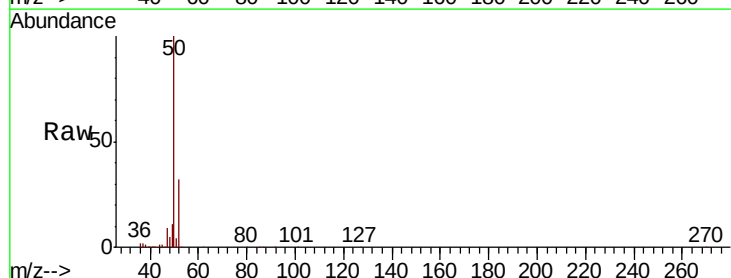
Acq: 13 Dec 2018 14:26

Tgt Ion: 50 Resp: 564211

Ion Ratio Lower Upper

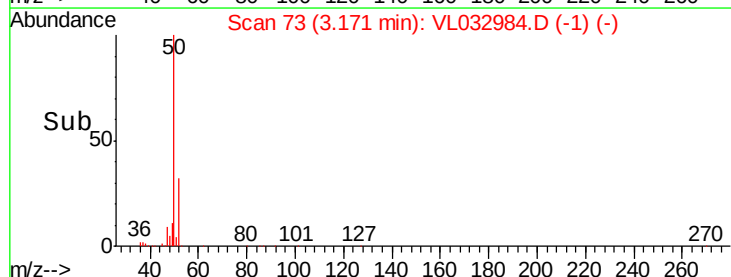
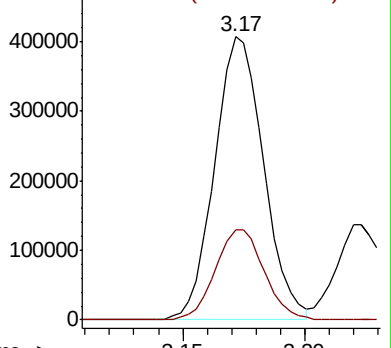
50 100

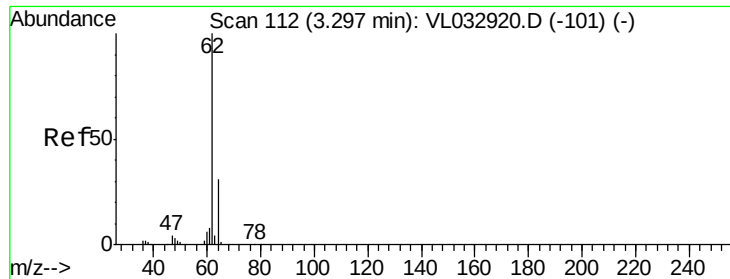
52 31.8 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.557 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 572821

Ion Ratio Lower Upper

62 100

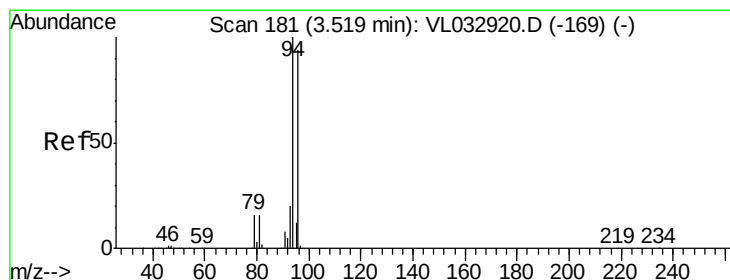
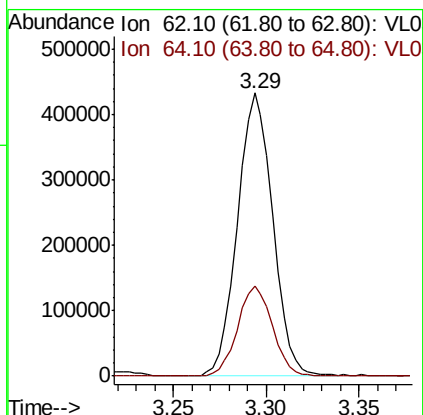
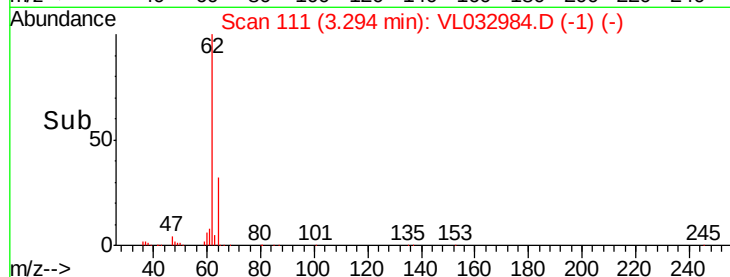
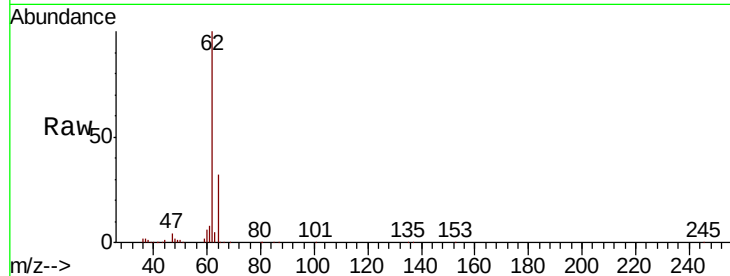
64 32.0 24.8 37.2

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#6

Bromomethane

Concen: 10.183 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL032984.D

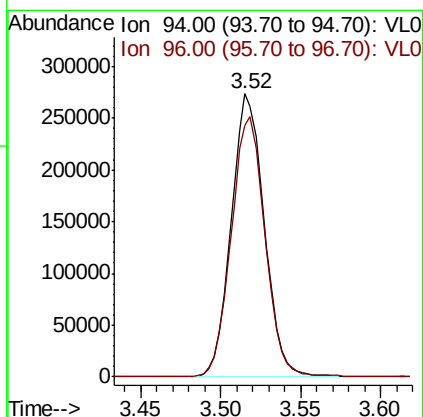
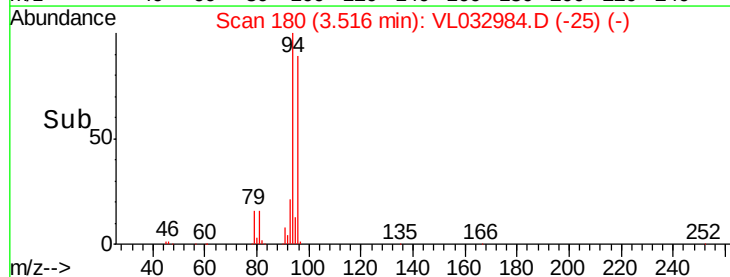
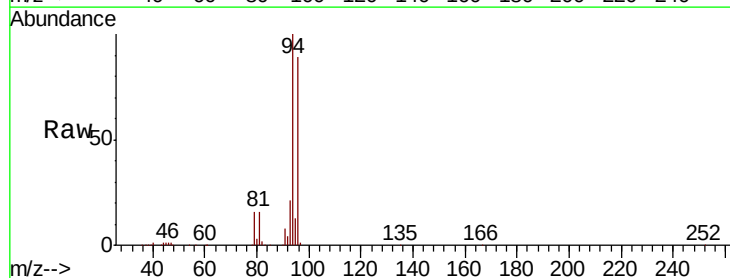
Acq: 13 Dec 2018 14:26

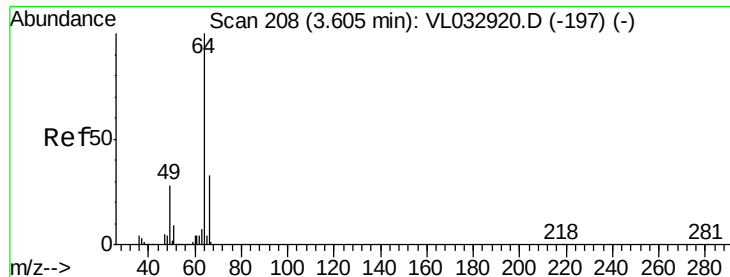
Tgt Ion: 94 Resp: 381714

Ion Ratio Lower Upper

94 100

96 88.9 75.5 113.3





#7

Chloroethane

Concen: 10.226 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 219664

Ion Ratio Lower Upper

64 100

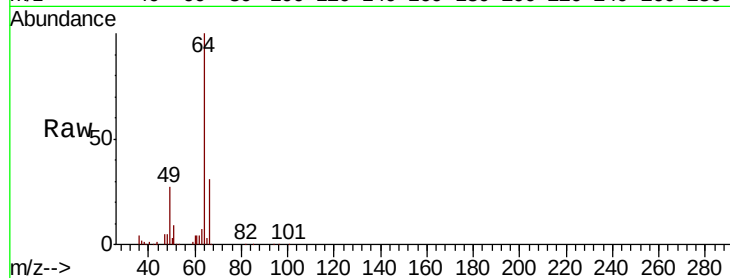
66 30.8 26.6 40.0

Manual Integrations

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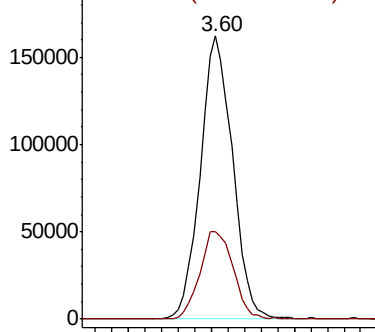
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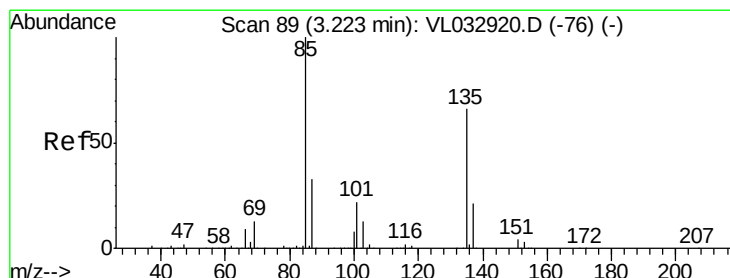
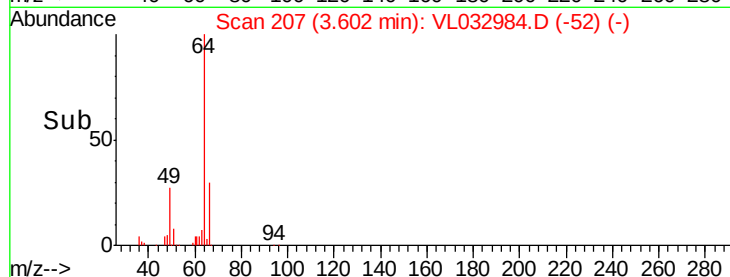


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.850 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032984.D

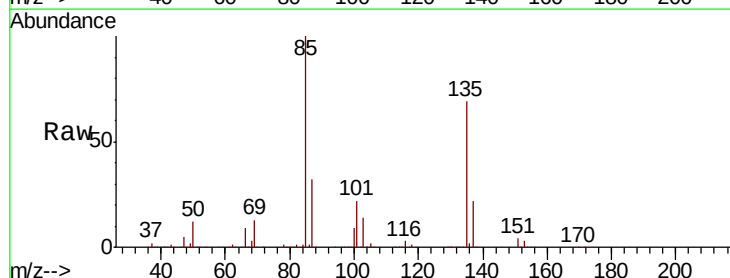
Acq: 13 Dec 2018 14:26

Tgt Ion: 85 Resp: 1459939

Ion Ratio Lower Upper

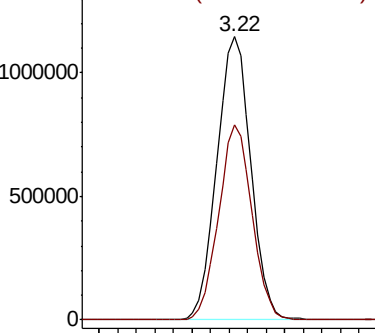
85 100

135 68.1 54.5 81.7

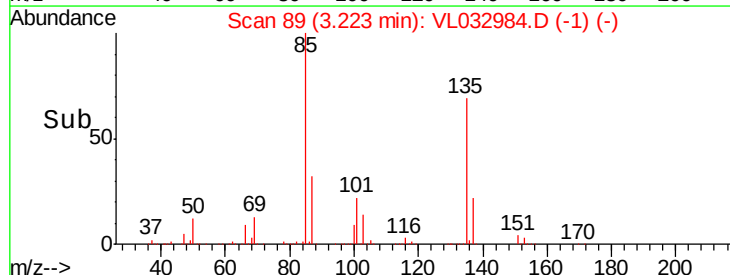


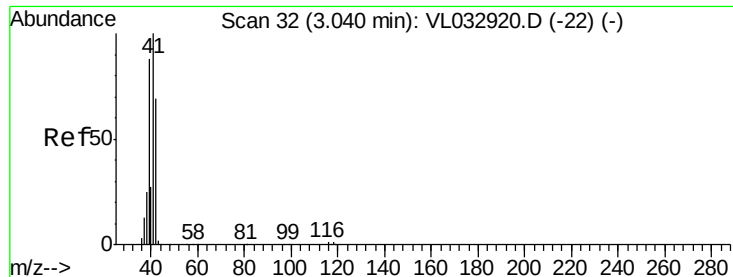
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



Time-->





#9

Propene

Concen: 10.515 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 420690

Ion Ratio Lower Upper

41 100

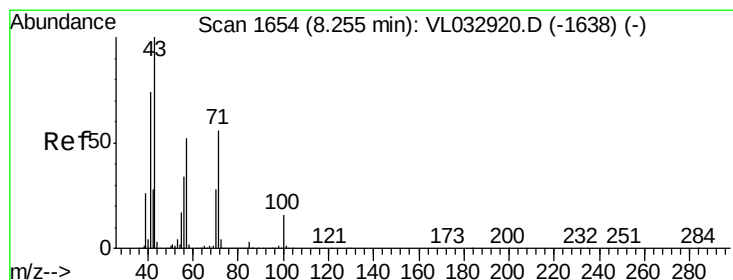
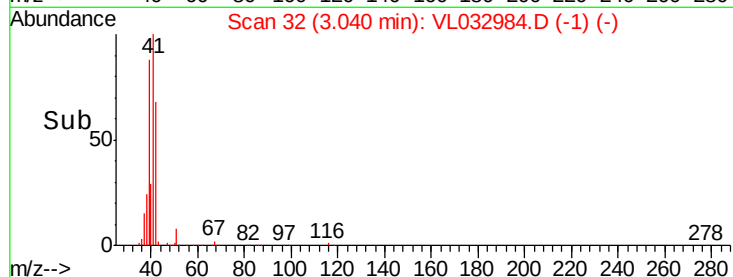
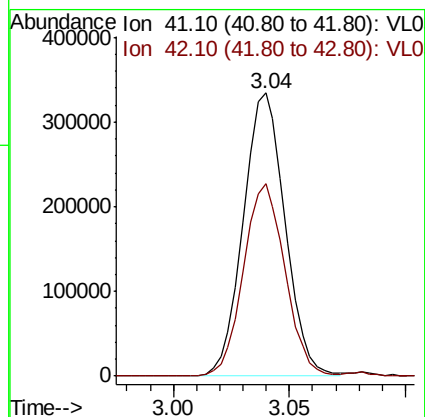
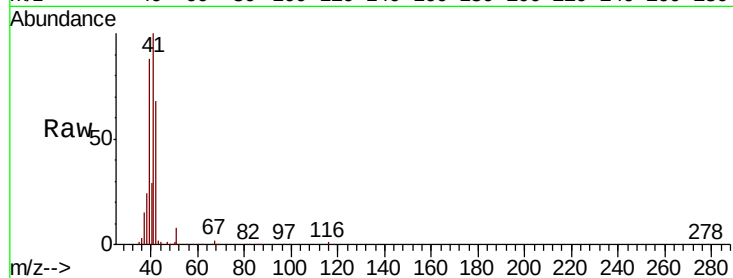
42 68.5 56.2 84.2

Manual Integrations

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#10

Heptane

Concen: 9.562 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL032984.D

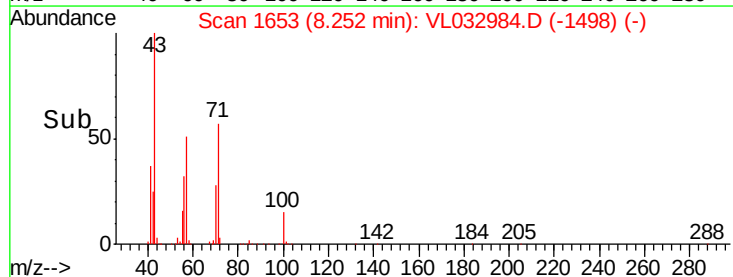
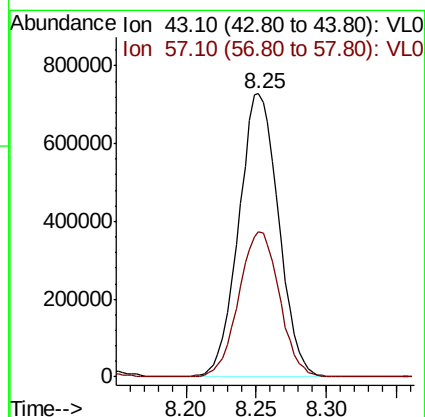
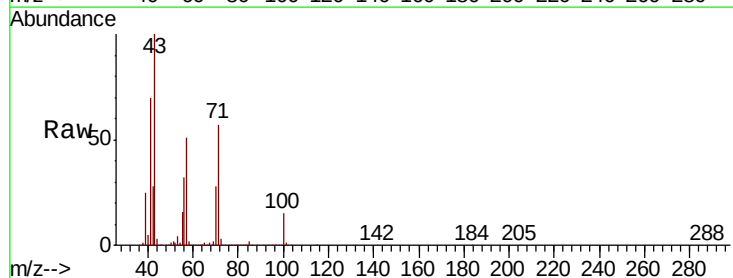
Acq: 13 Dec 2018 14:26

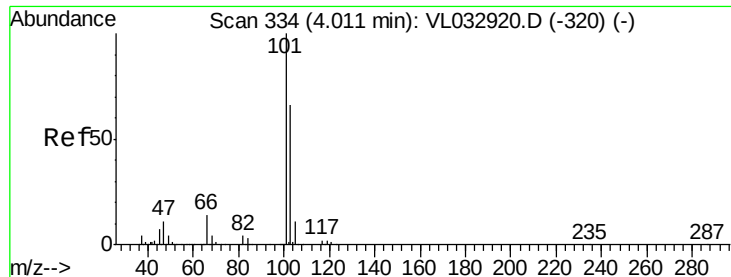
Tgt Ion: 43 Resp: 1436973

Ion Ratio Lower Upper

43 100

57 52.1 41.8 62.6





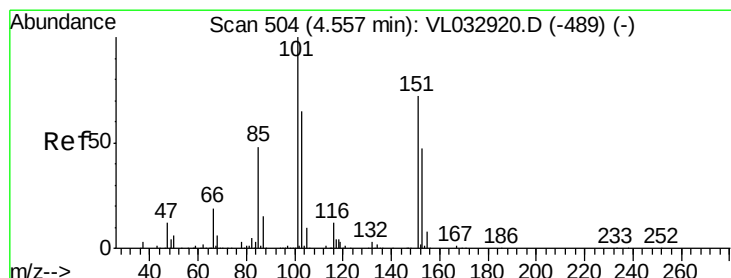
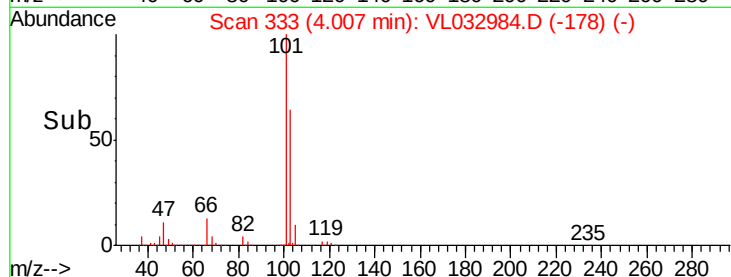
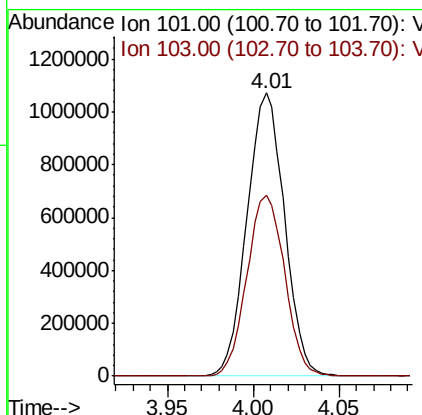
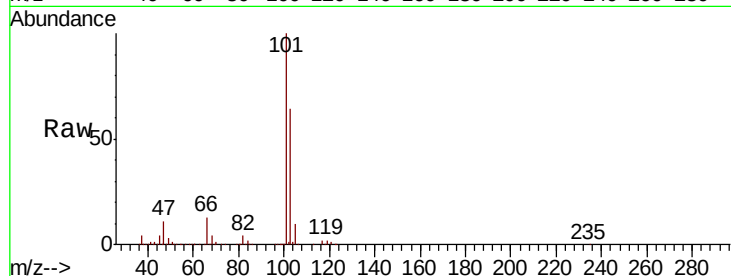
#11
 Trichlorofluoromethane
 Concen: 9.627 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1617597
 Ion Ratio Lower Upper
 101 100
 103 64.1 52.7 79.1

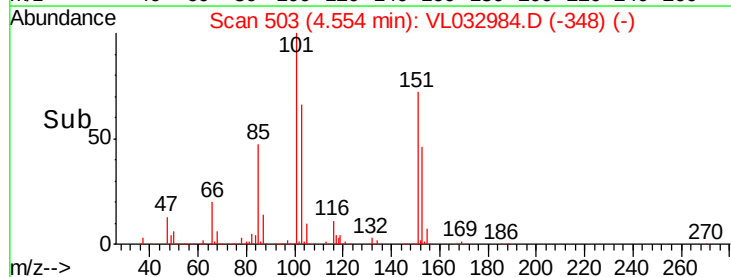
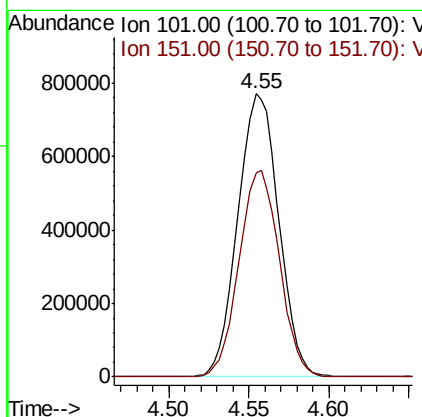
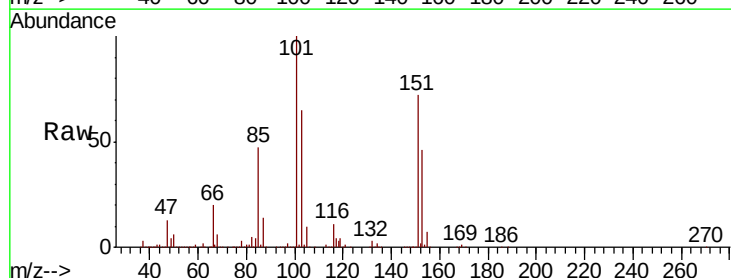
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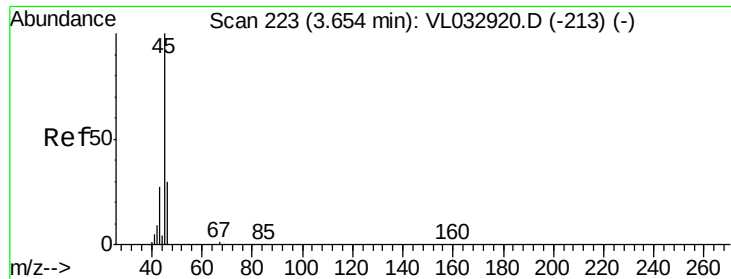
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.361 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion:101 Resp: 1341959
 Ion Ratio Lower Upper
 101 100
 151 72.3 59.3 88.9





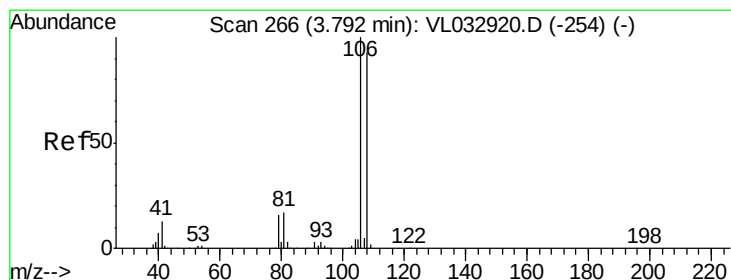
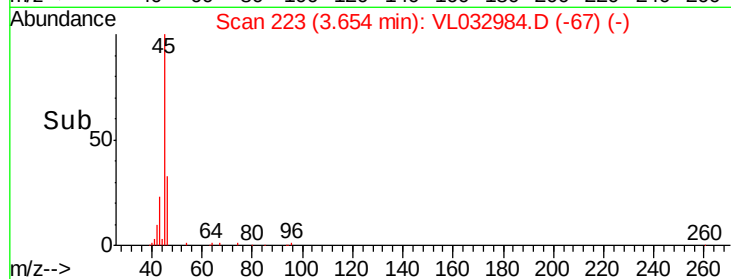
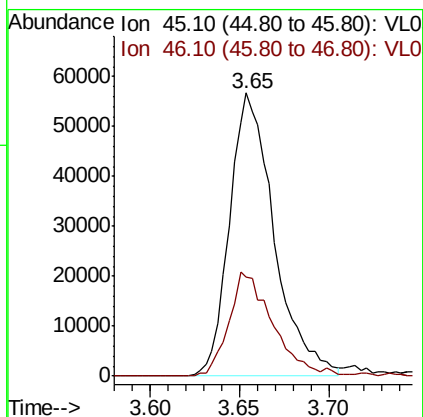
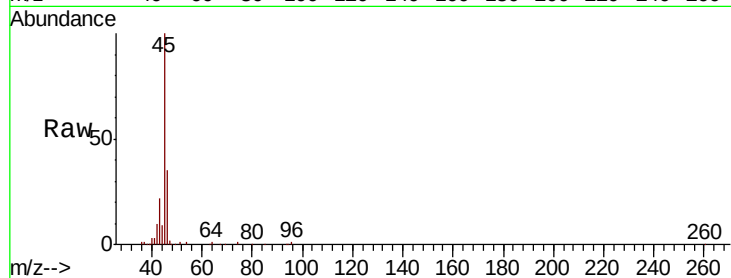
#13
Ethanol
Concen: 7.182 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45.10	Resp	98926
Ion Ratio	Lower	Upper	
45	100		
46	37.2	13.8	55.4

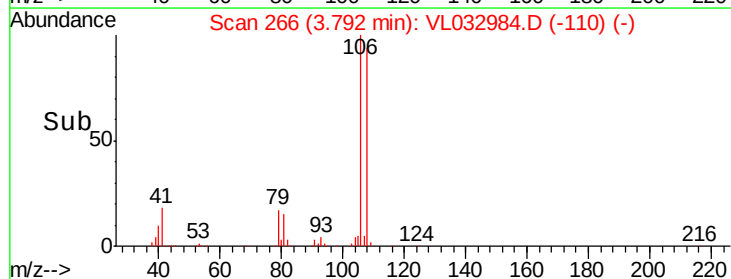
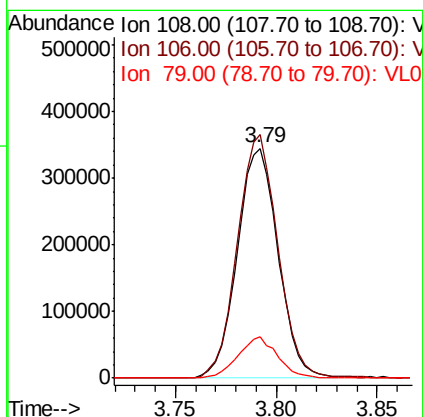
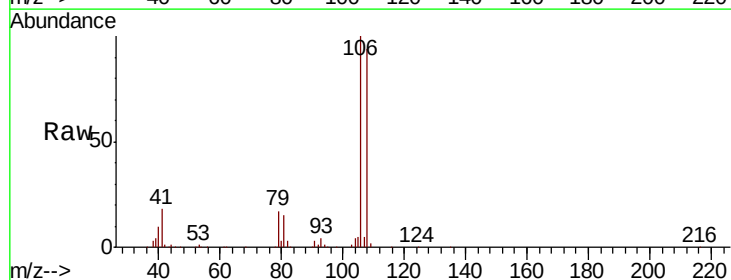
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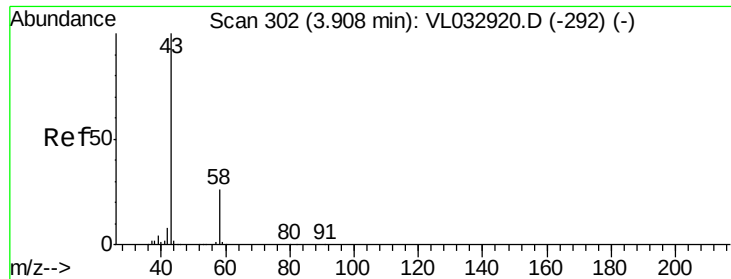
MMDadoda
12/14/2018 11:18:48 AM



#14
Bromoethene
Concen: 10.301 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	108	Resp	490288
Ion Ratio	Lower	Upper	
108	100		
106	105.7	85.4	128.2
79	17.6	14.6	21.8





#15

Acetone

Concen: 8.913 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1022076

Ion Ratio Lower Upper

43 100

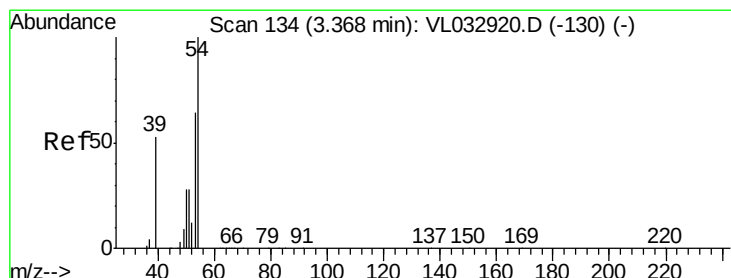
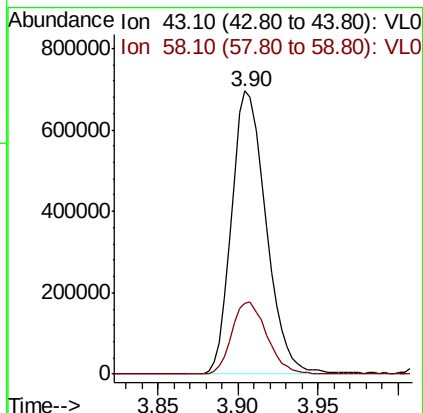
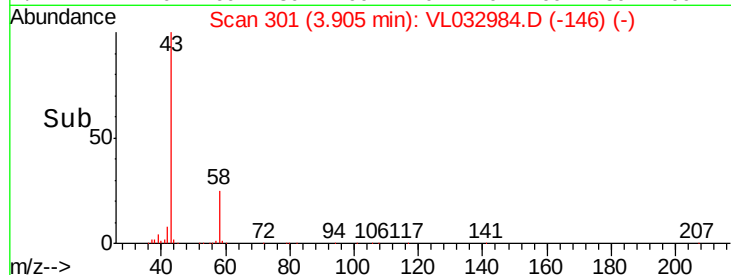
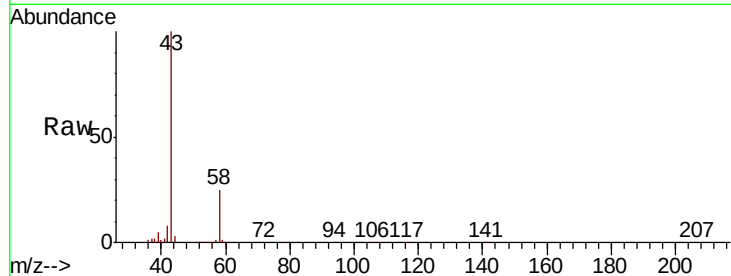
58 26.1 20.6 30.8

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#16

1,3-Butadiene

Concen: 9.943 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL032984.D

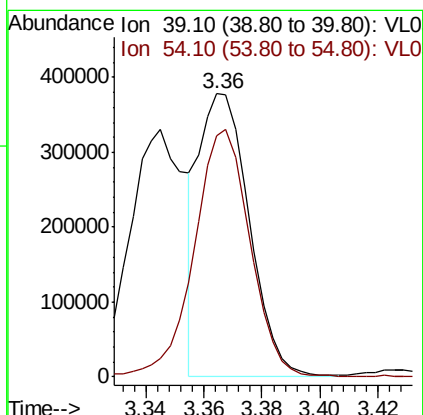
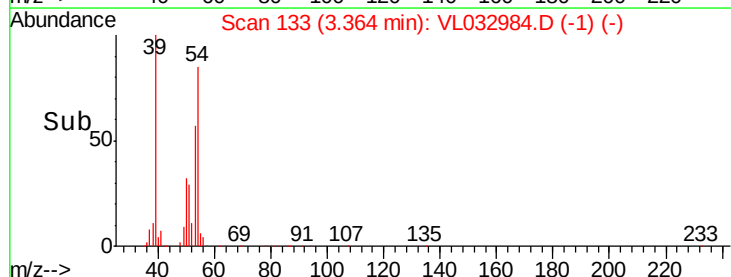
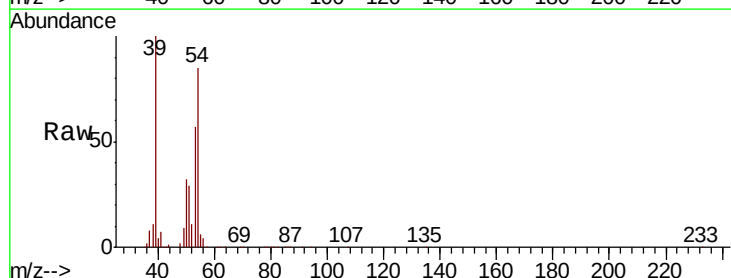
Acq: 13 Dec 2018 14:26

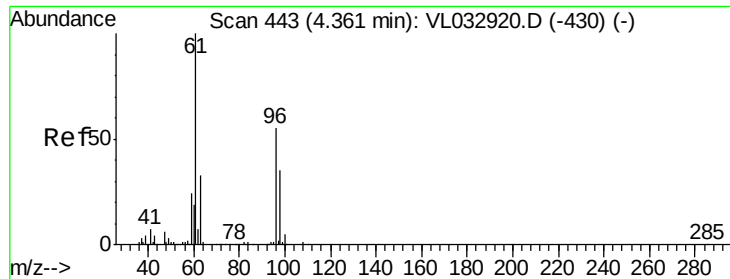
Tgt Ion: 39 Resp: 452354

Ion Ratio Lower Upper

39 100

54 98.9 72.7 109.1





#17

tert-Butyl alcohol

Concen: 11.403 ppbv m

RT: 4.37 min Scan# 445

Delta R.T. 0.01 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 59 Resp: 332910

Ion Ratio Lower Upper

59 100

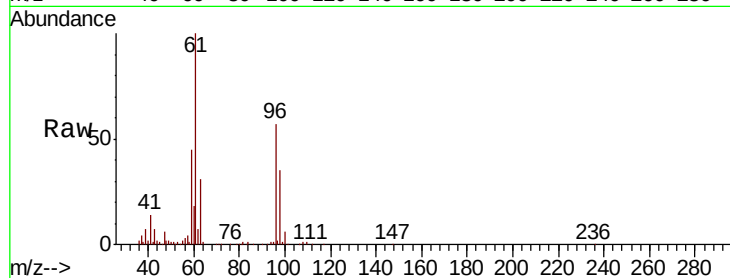
57 0.0 0.6 1.0#

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.37

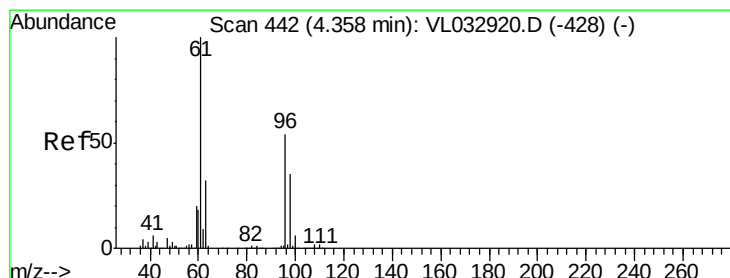
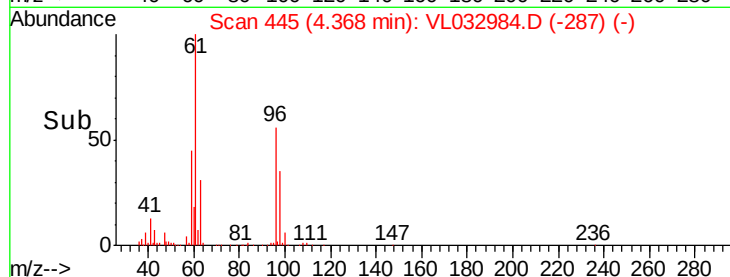
150000

100000

50000

0

Time-->



#18

1,1-Dichloroethene

Concen: 10.999 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

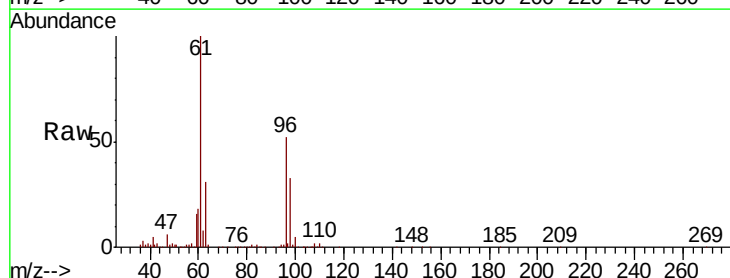
Tgt Ion: 96 Resp: 617602

Ion Ratio Lower Upper

96 100

61 192.3 147.0 220.4

98 63.8 50.7 76.1



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

1000000

800000

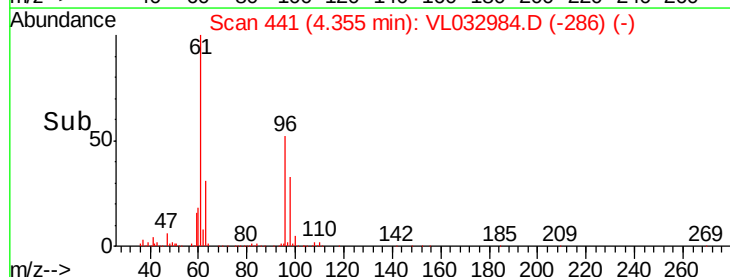
600000

400000

200000

0

Time-->

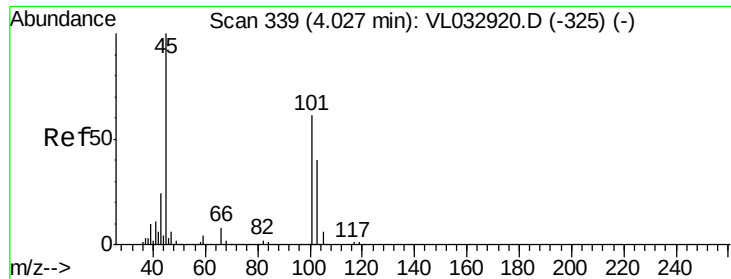


4.35

4.30

4.35

4.40



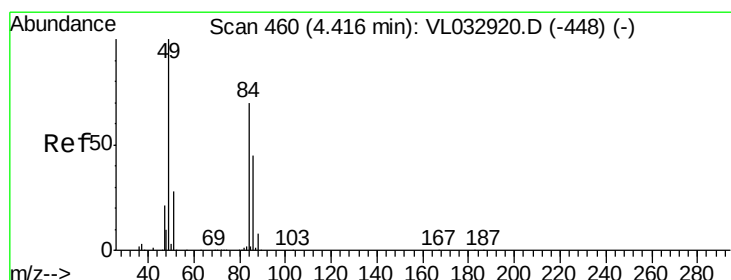
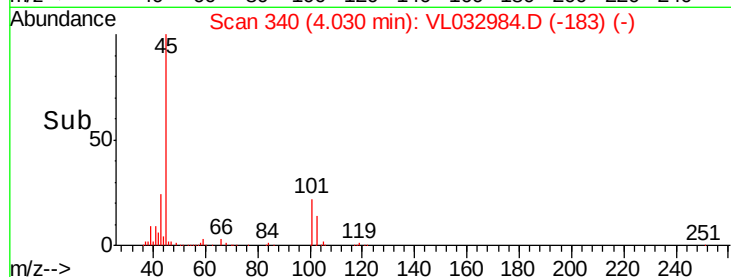
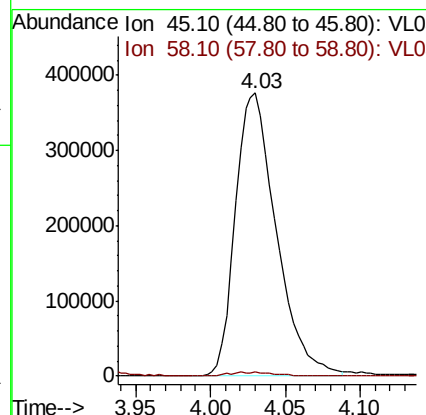
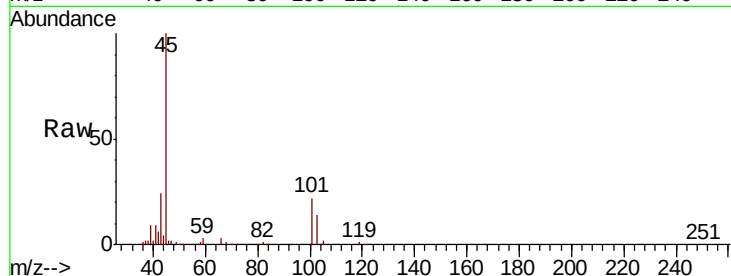
#19
Isopropyl Alcohol
Concen: 9.920 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 714395
Ion Ratio Lower Upper
45 100
58 1.8 1.4 2.2

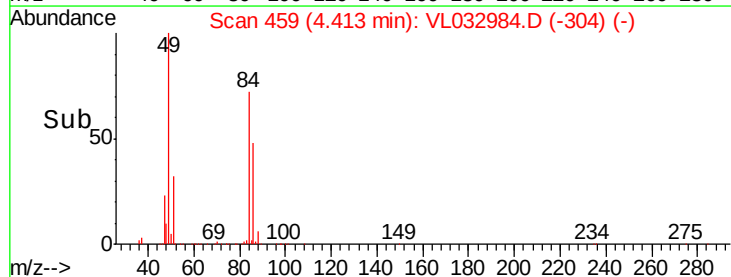
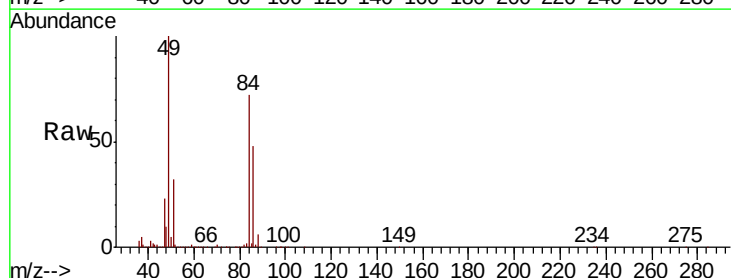
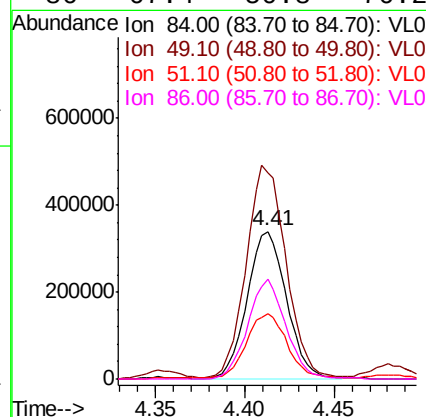
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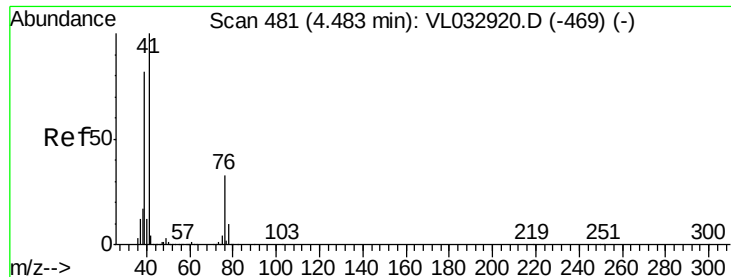
MMDadoda
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#20
Methylene Chloride
Concen: 9.356 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion: 84 Resp: 524348
Ion Ratio Lower Upper
84 100
49 138.2 113.8 170.8
51 43.6 31.8 47.8
86 67.4 50.8 76.2





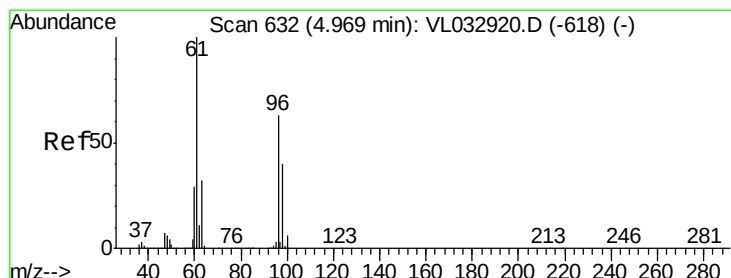
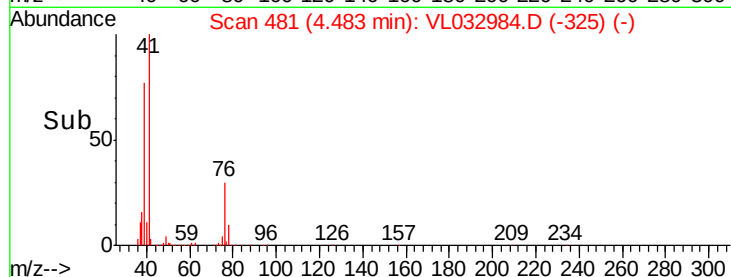
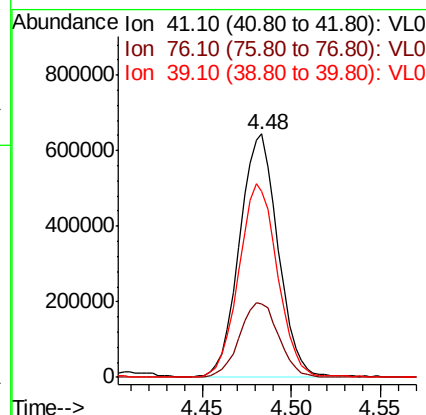
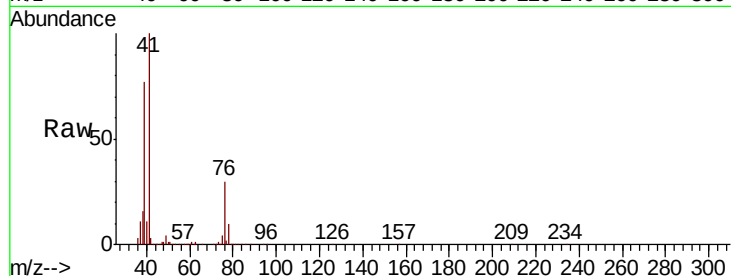
#21
Allvl Chloride
Concen: 10.315 ppbv
RT: 4.48 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.7	25.2	37.8
39	80.7	65.2	97.8

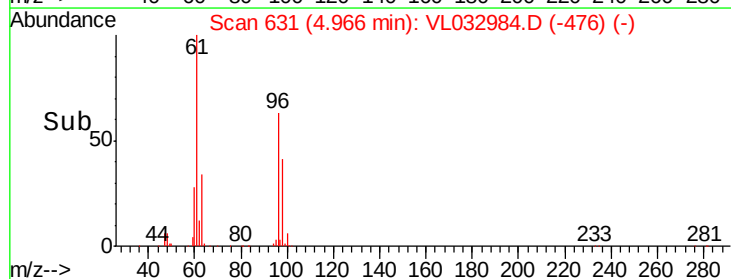
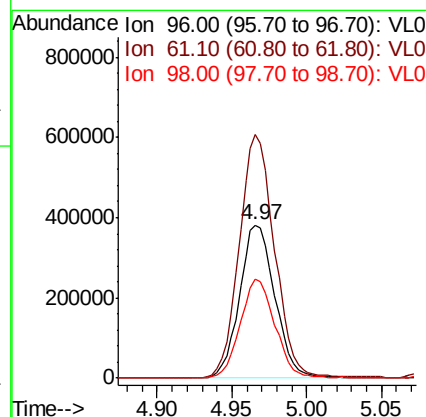
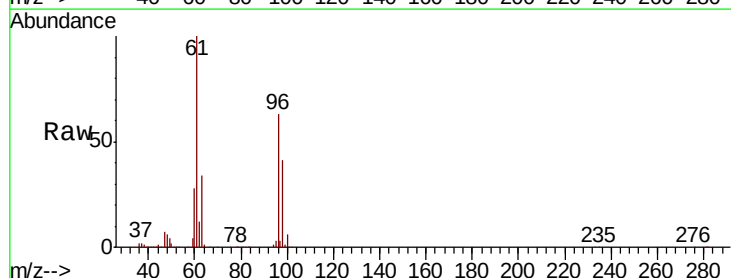
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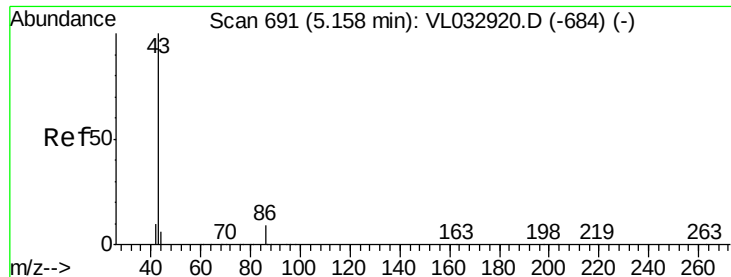
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 8.999 ppbv
RT: 4.97 min Scan# 631
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.1	127.1	190.7
98	65.0	51.3	76.9





#23

Vinyl Acetate

Concen: 11.903 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2311100

Ion Ratio Lower Upper

43 100

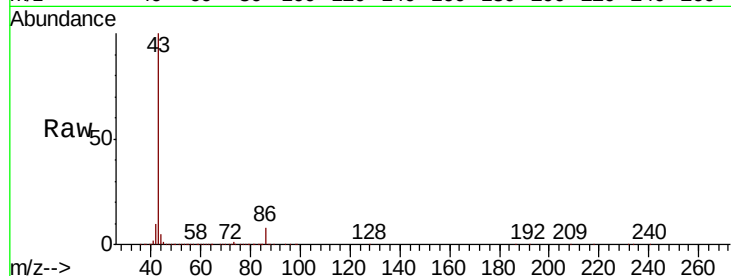
86 8.4 6.6 9.8

42 10.2 8.3 12.5

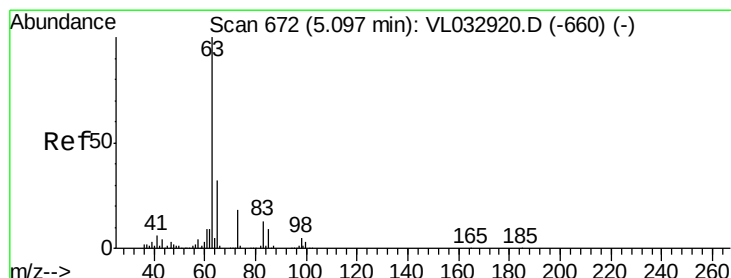
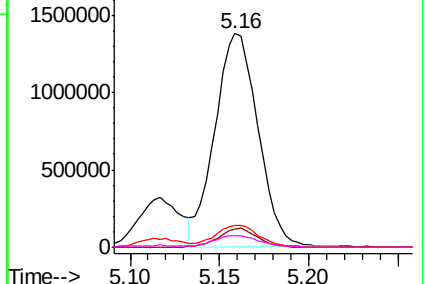
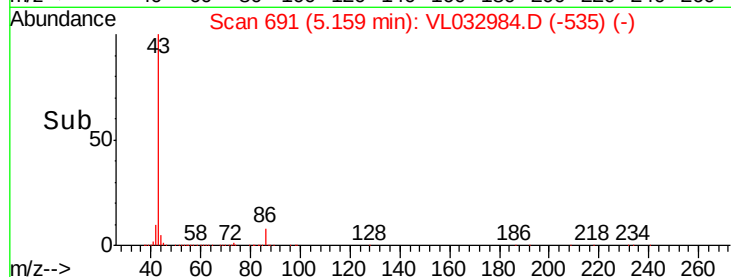
44 5.3 4.2 6.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.453 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

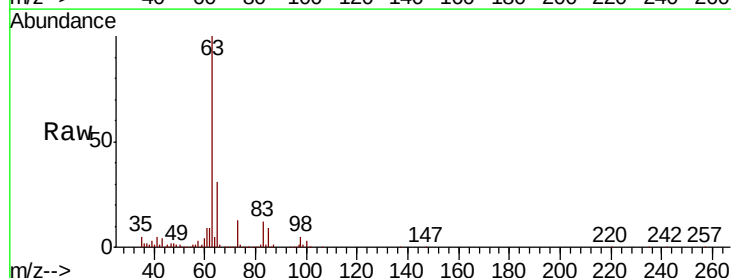
Tgt Ion: 63 Resp: 1764703

Ion Ratio Lower Upper

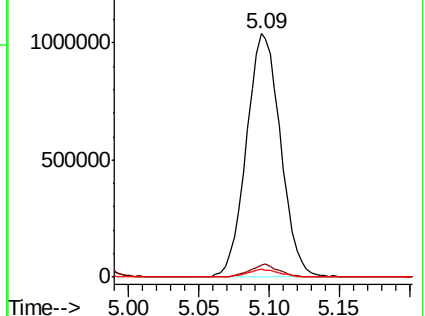
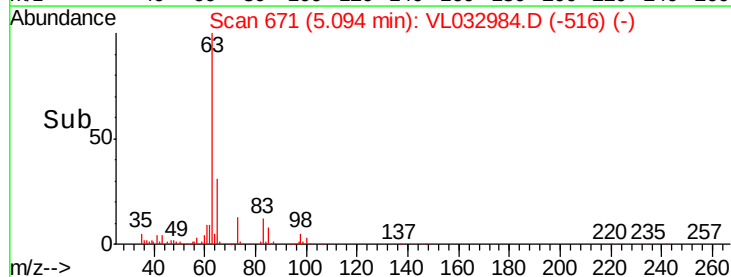
63 100

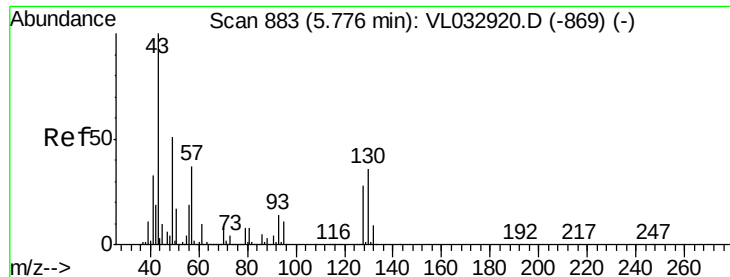
98 4.6 2.5 7.5

100 3.1 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





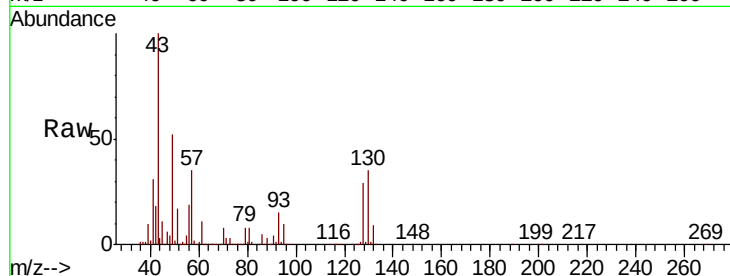
#25
Ethyl Acetate
Concen: 9.795 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.7	7.8	11.6	
61	9.6	7.4	11.2	
70	7.3	5.7	8.5	

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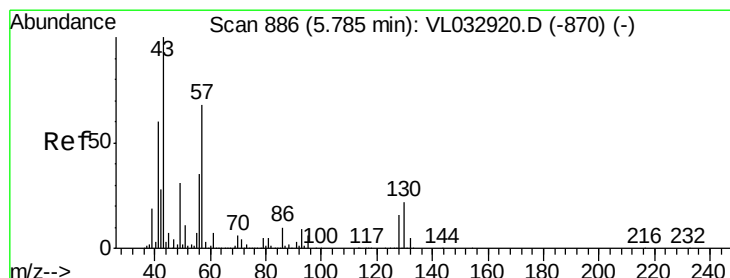
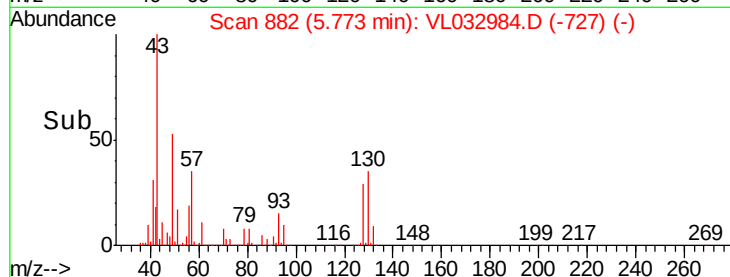
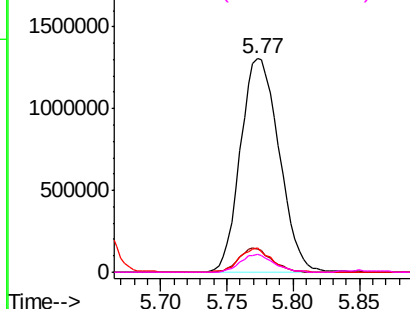
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 9.782 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.9	72.2	108.2	
43	217.7	171.9	257.9	
56	52.7	42.2	63.2	

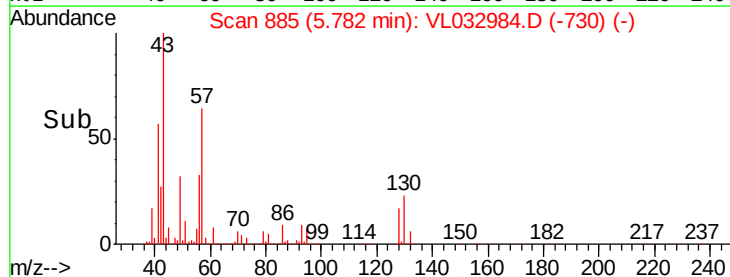
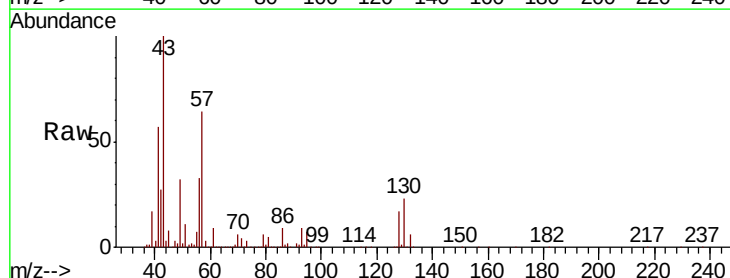
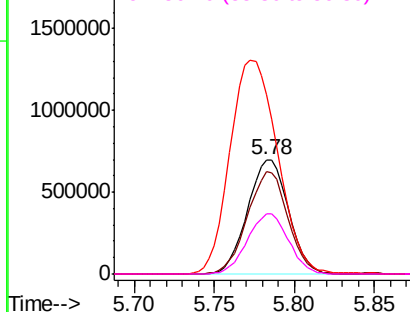
Abundance

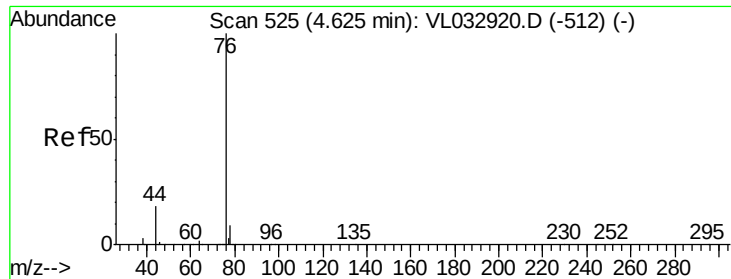
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.973 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1559510

Ion Ratio Lower Upper

76 100

44 17.9 14.7 22.1

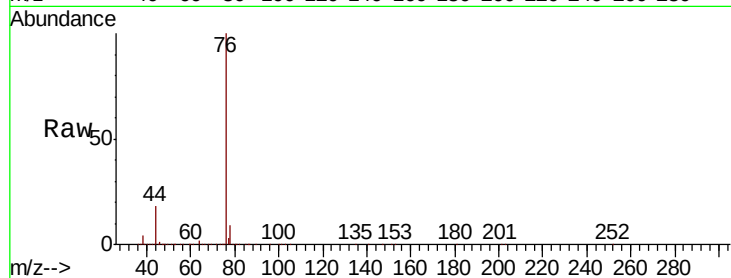
78 9.6 7.4 11.2

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MMDadoda

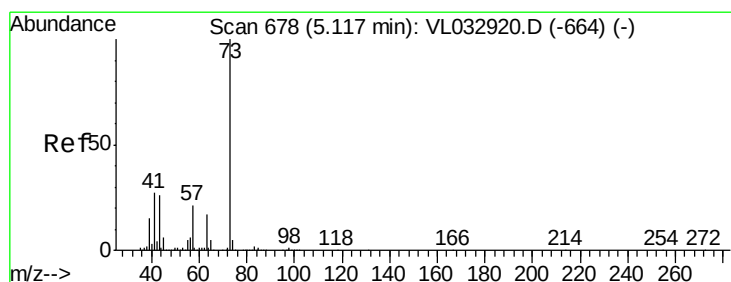
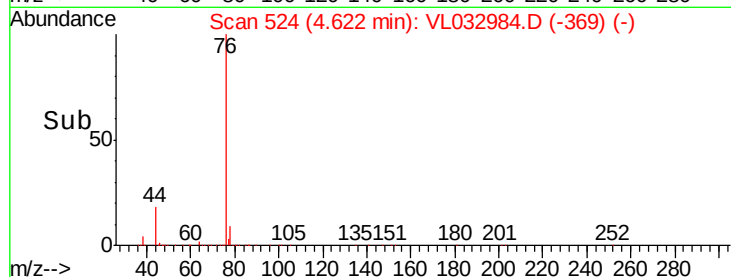
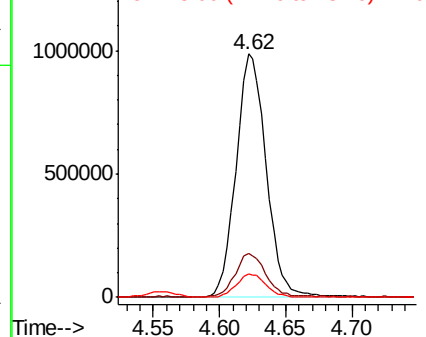
12/14/2018 11:18:48 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.728 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL032984.D

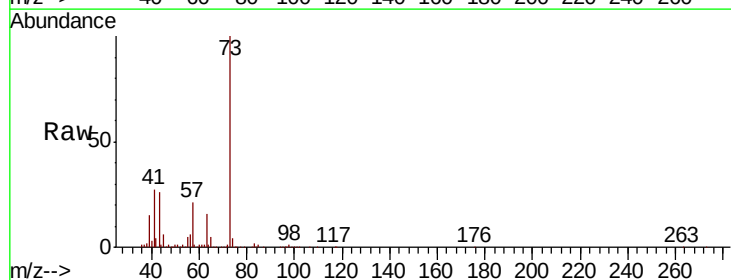
Acq: 13 Dec 2018 14:26

Tgt Ion: 73 Resp: 2202893

Ion Ratio Lower Upper

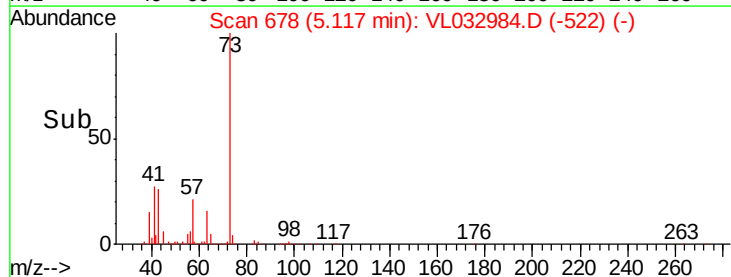
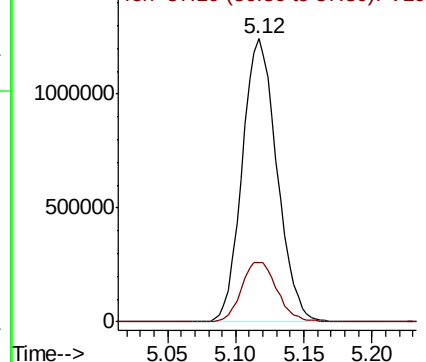
73 100

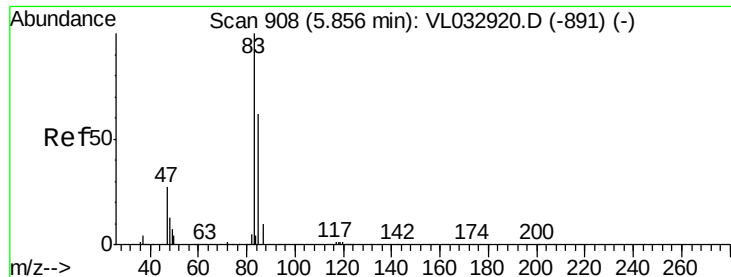
57 21.8 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





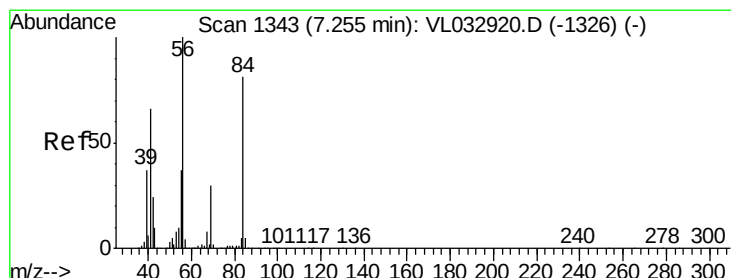
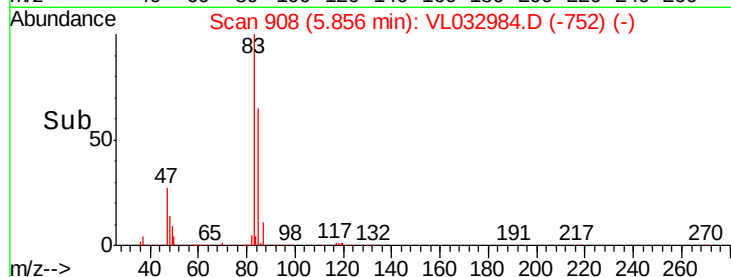
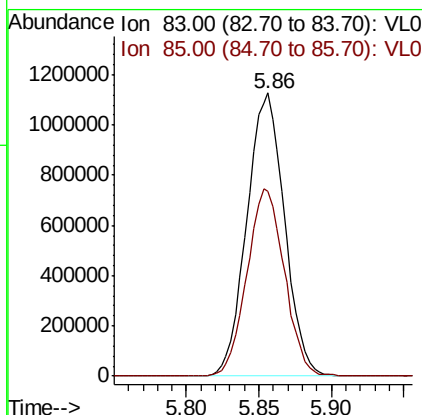
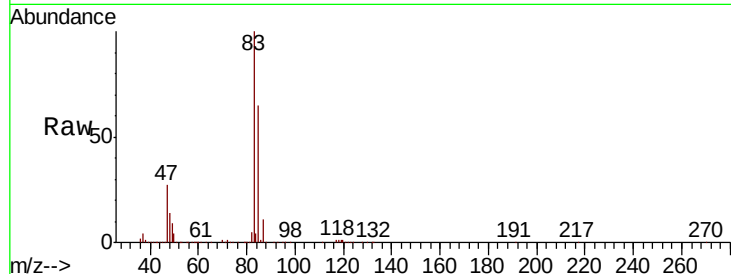
#29
Chloroform
Concen: 9.142 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2040132
Ion Ratio Lower Upper
83 100
85 65.0 49.8 74.8

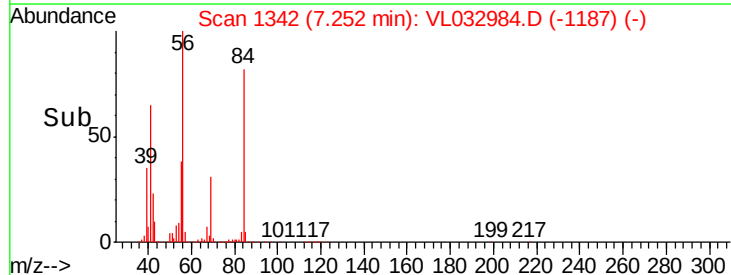
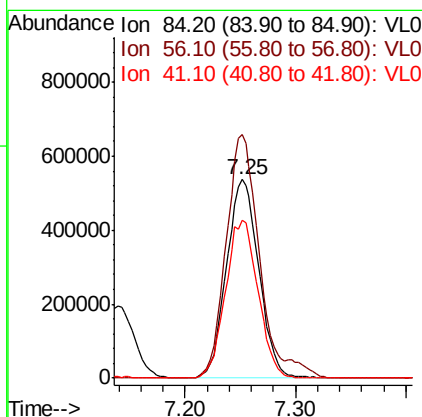
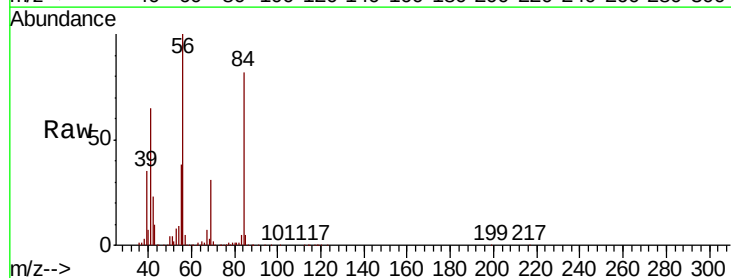
Manual Integrations
APPROVED

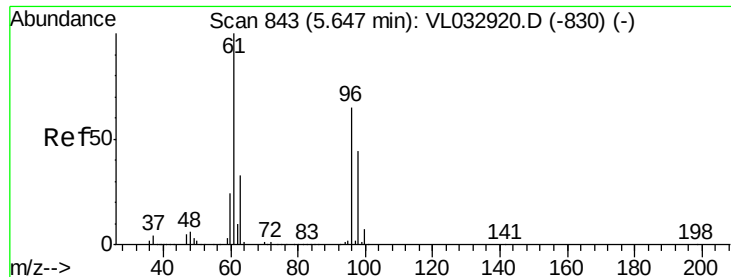
MMDadoda
12/14/2018 11:18:48 AM



#30
Cyclohexane
Concen: 10.527 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion: 84 Resp: 1091226
Ion Ratio Lower Upper
84 100
56 127.4 102.5 153.7
41 80.0 64.1 96.1





#31

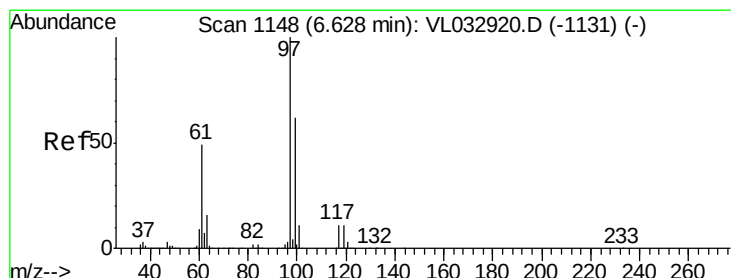
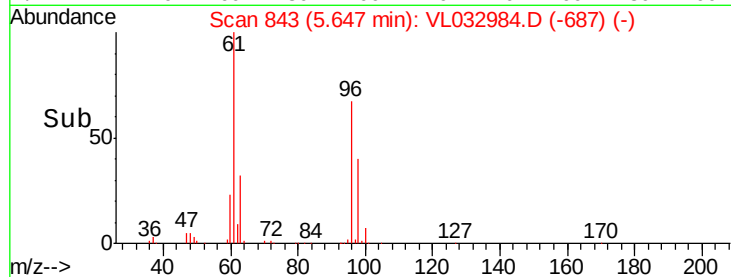
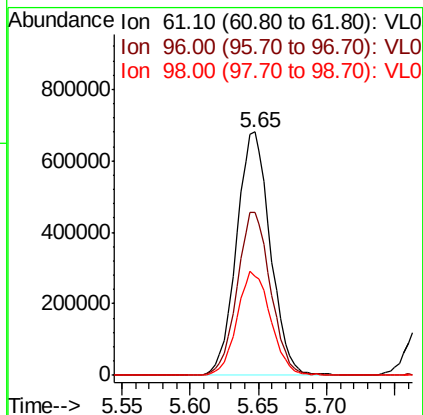
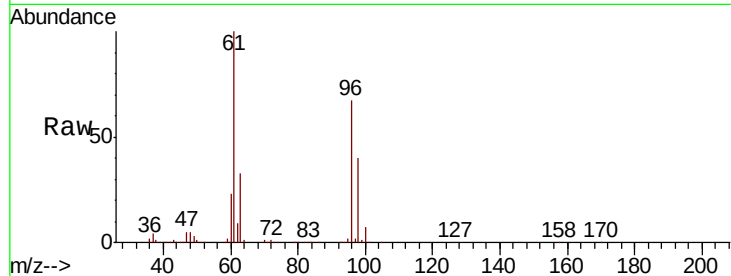
cis-1,2-Dichloroethene
Concen: 10.190 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.1	51.9	77.9
98	40.4	35.0	52.4

Manual Integrations
APPROVED

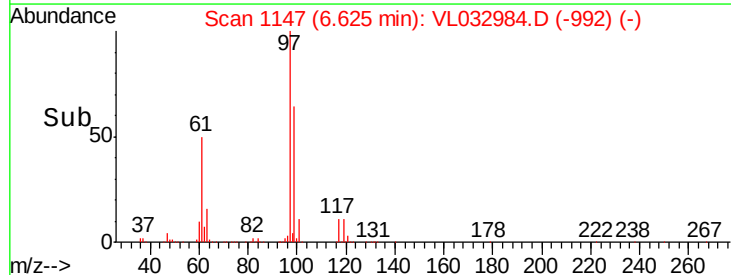
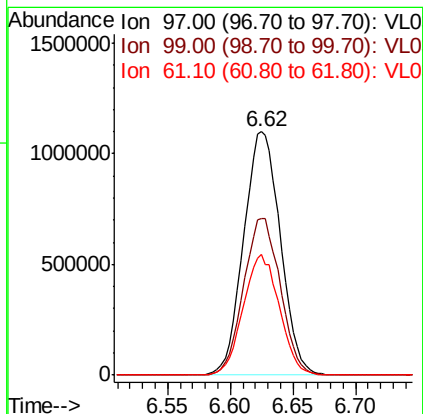
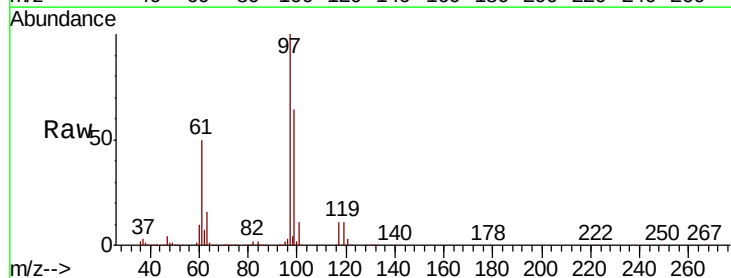
MMDadoda
12/14/2018 11:18:48 AM

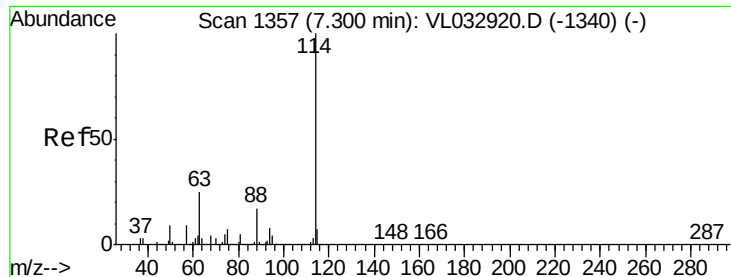


#32

1,1,1-Trichloroethane
Concen: 9.499 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	48.8	39.3	58.9





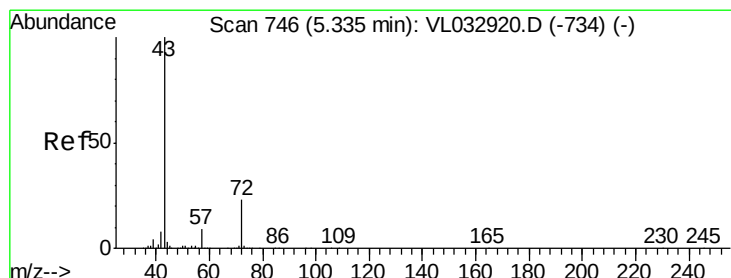
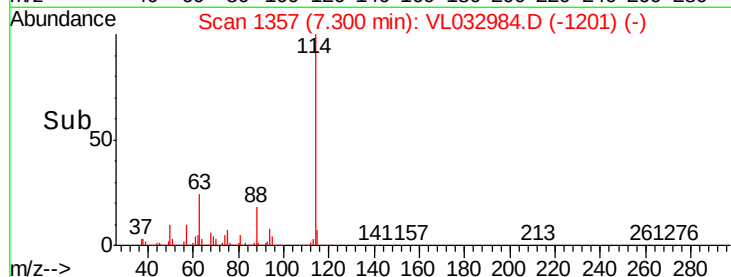
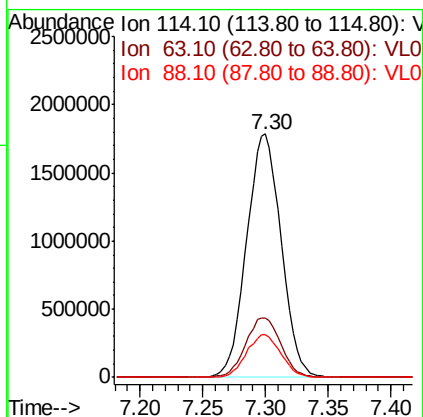
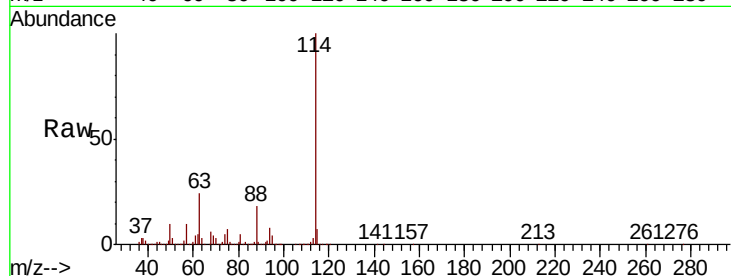
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.1	30.1
88	17.6	14.2	21.4

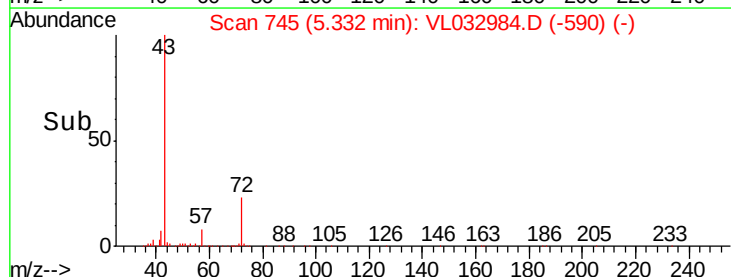
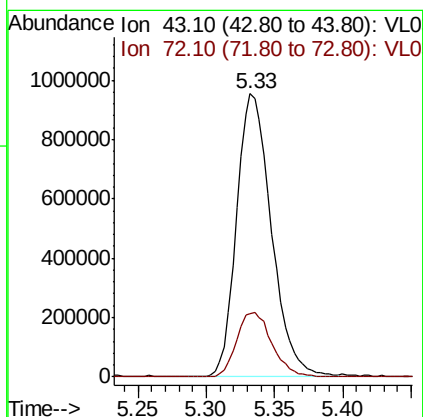
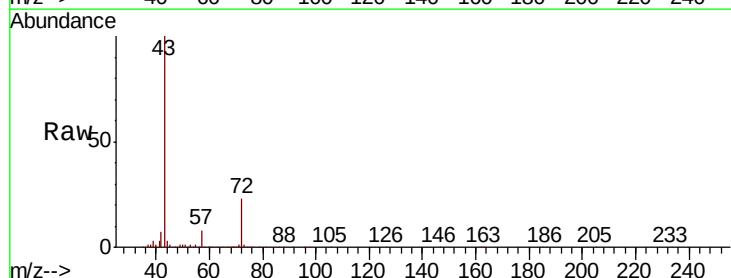
Manual Integrations
 APPROVED

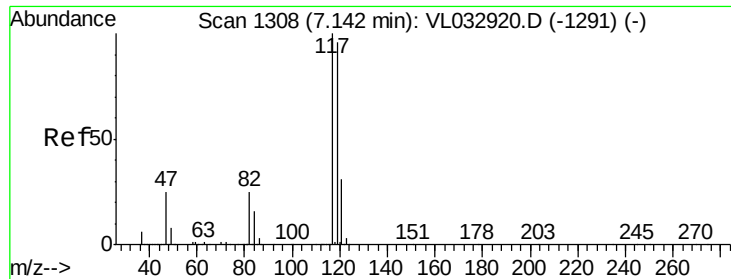
MMDadoda
 12/14/2018 11:18:48 AM



#34
 2-Butanone
 Concen: 11.377 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.8	28.2





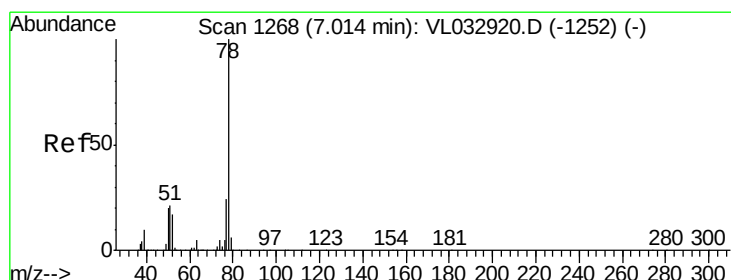
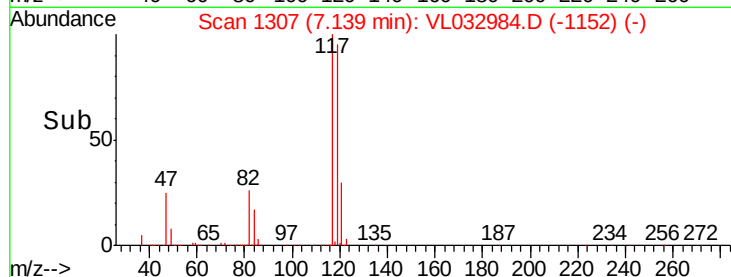
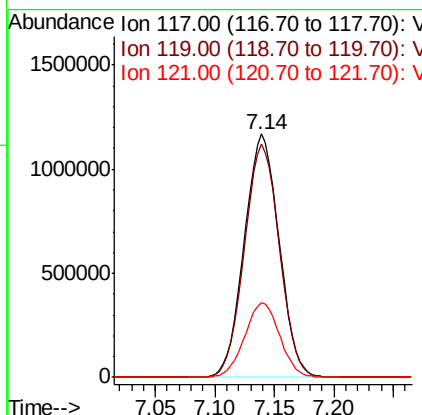
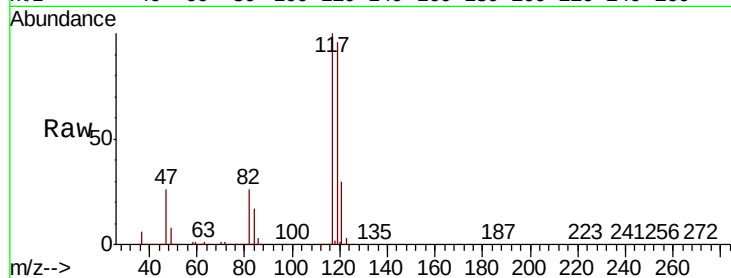
#35
Carbon Tetrachloride
Concen: 8.854 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.5	114.7
121	30.5	24.5	36.7

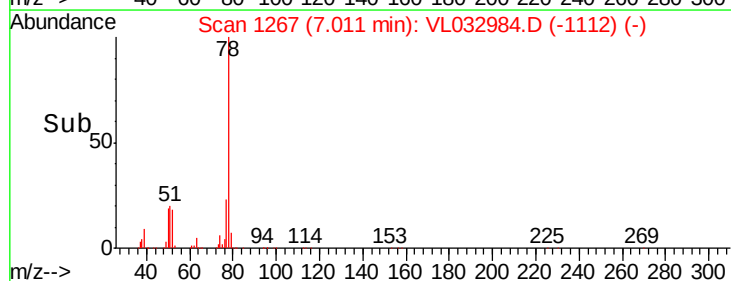
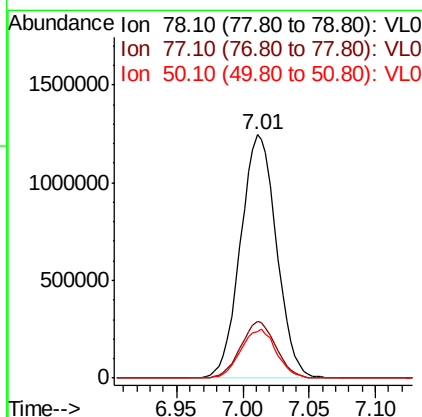
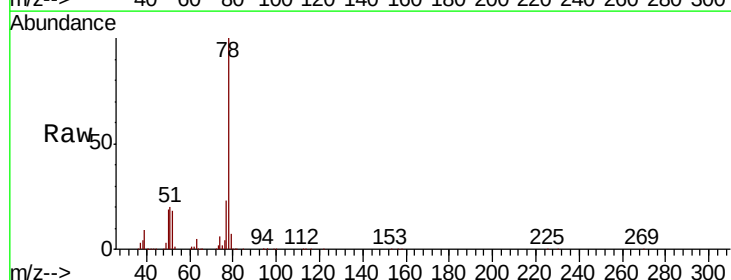
Manual Integrations
APPROVED

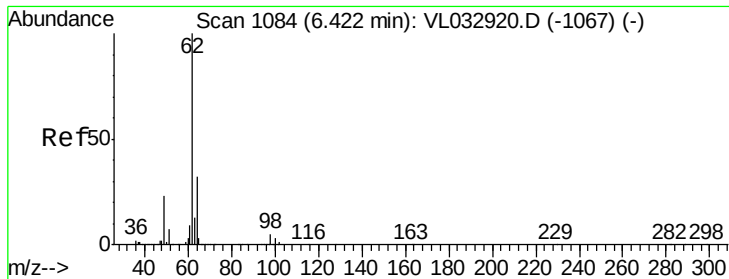
MMDadoda
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#36
Benzene
Concen: 9.383 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.9	28.3
50	19.4	16.1	24.1





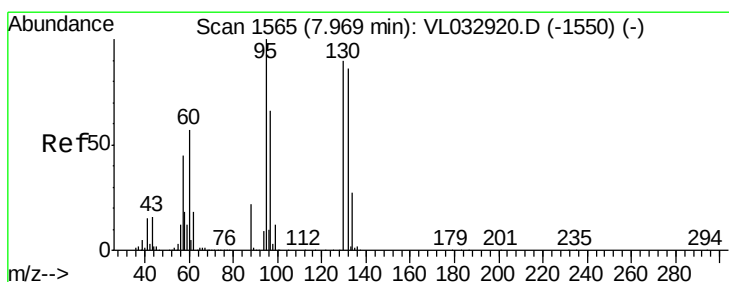
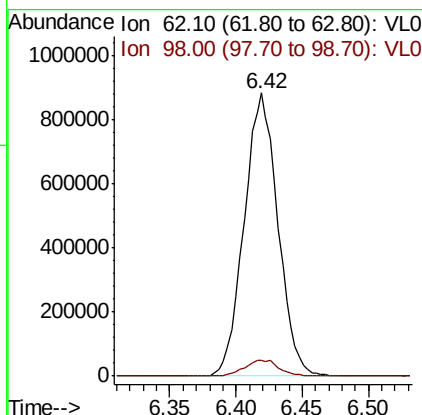
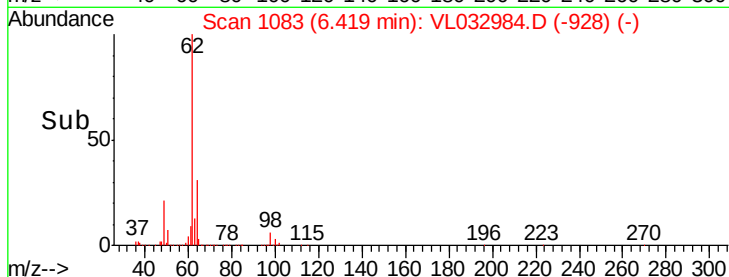
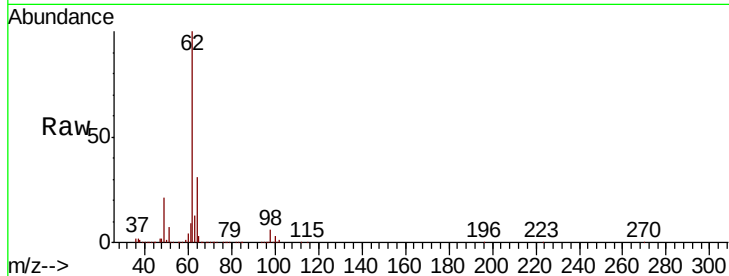
#37
 1,2-Dichloroethane
 Concen: 9.193 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. -0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.9	4.3	6.5

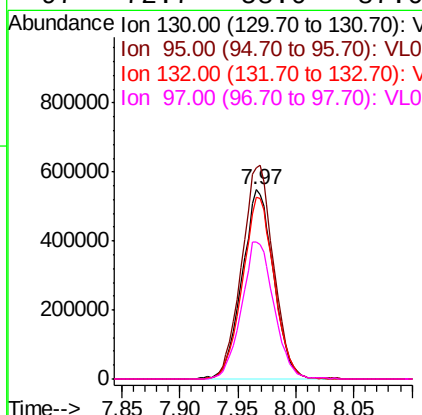
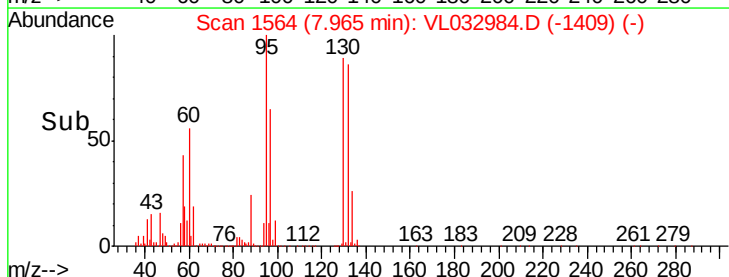
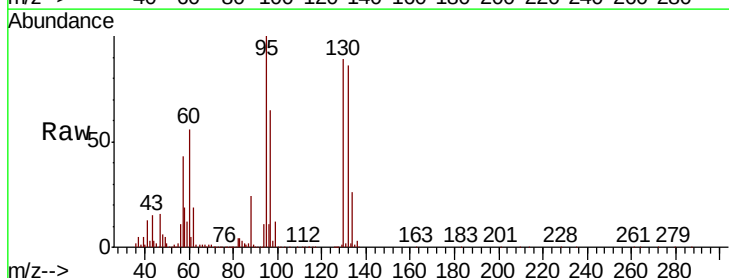
Manual Integrations
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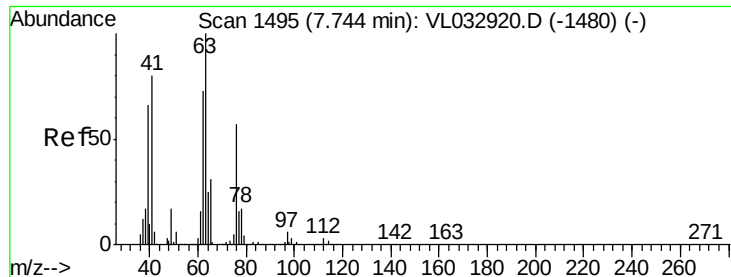
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#38
 Trichloroethene
 Concen: 9.930 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.9	88.6	132.8
132	96.6	76.1	114.1
97	72.7	58.0	87.0





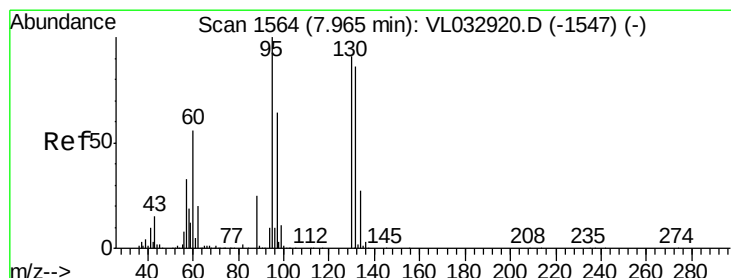
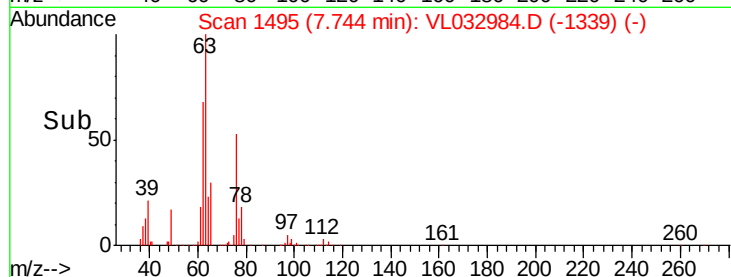
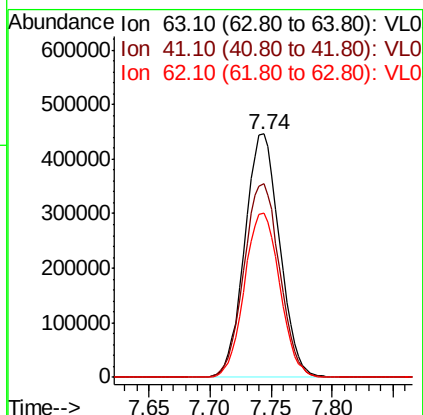
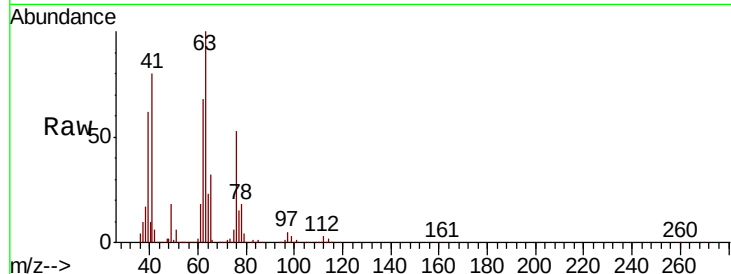
#39
 1,2-Dichloropropane
 Concen: 9.240 ppbv
 RT: 7.74 min Scan# 1495
 Delta R.T. 0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.7	63.9	95.9
62	67.5	58.8	88.2

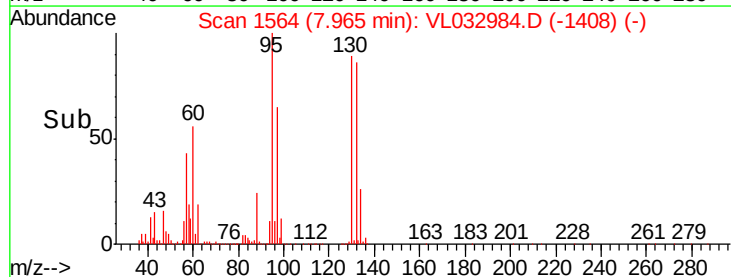
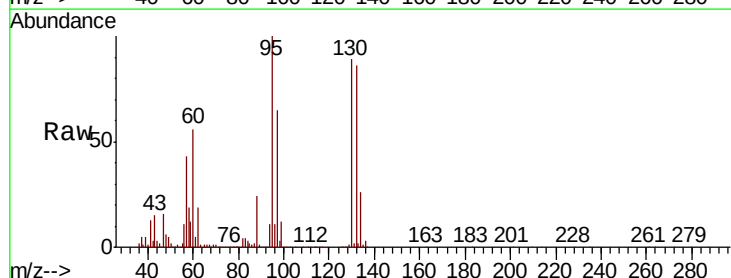
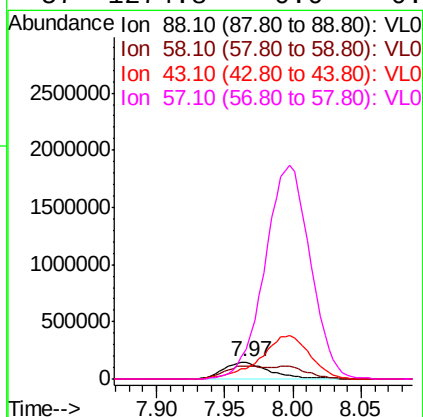
Manual Integrations
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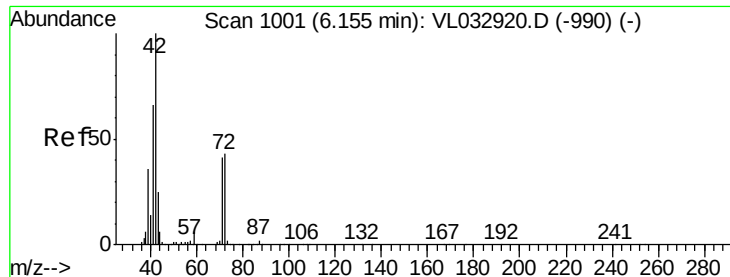
MMDadoda
 12/14/2018 11:18:48 AM



#40
 1,4-Dioxane
 Concen: 9.704 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.7	107.4	161.2
43	282.6	0.0	0.0#
57	1274.8	0.0	0.0#





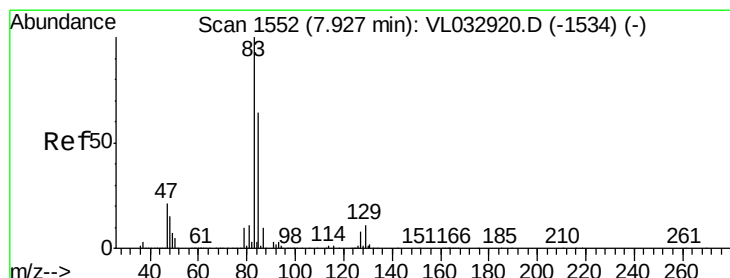
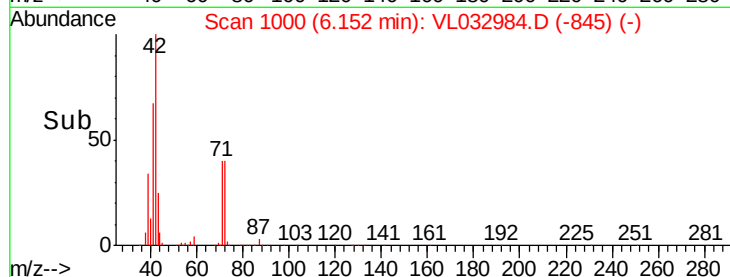
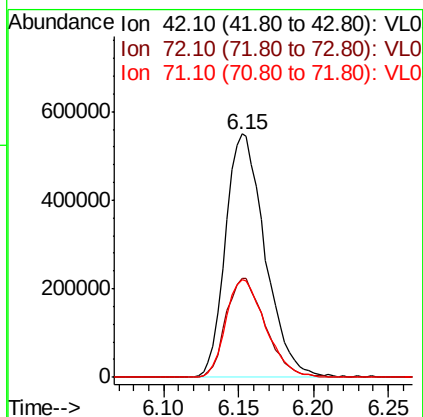
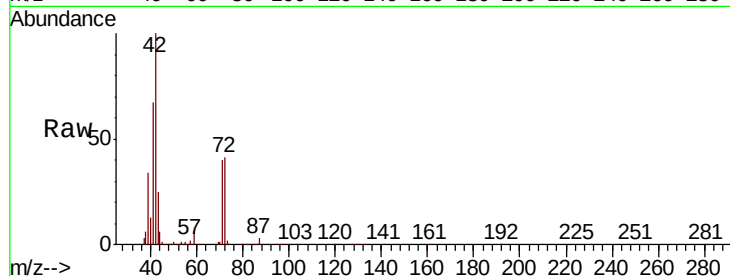
#41
Tetrahydrofuran
Concen: 10.920 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.9	32.9	49.3
71	40.6	32.0	48.0

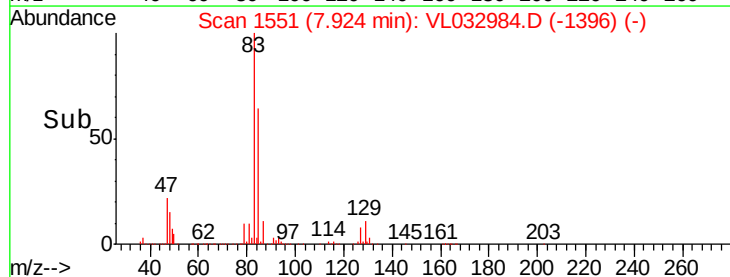
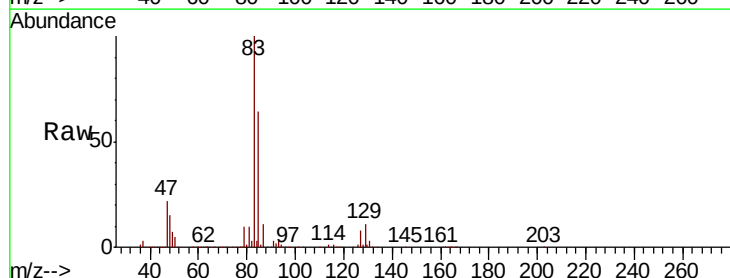
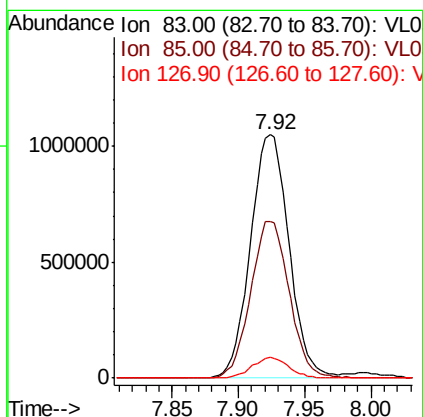
Manual Integrations
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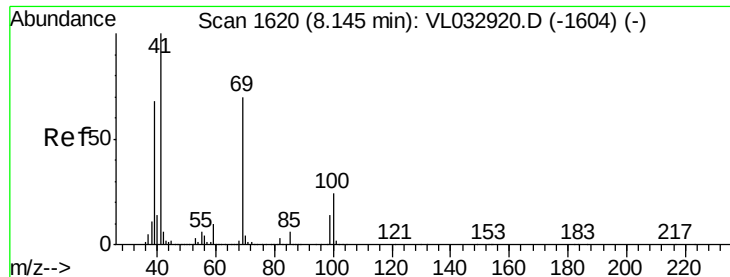
MMDadoda
12/14/2018 11:18:48 AM



#42
Bromodichloromethane
Concen: 9.031 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.9	76.3
127	8.4	6.7	10.1





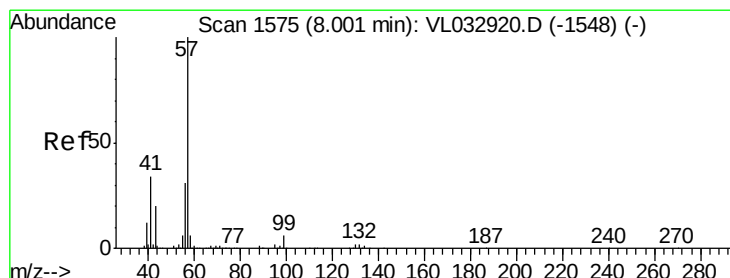
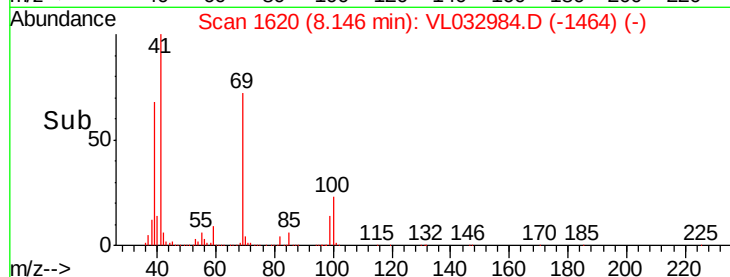
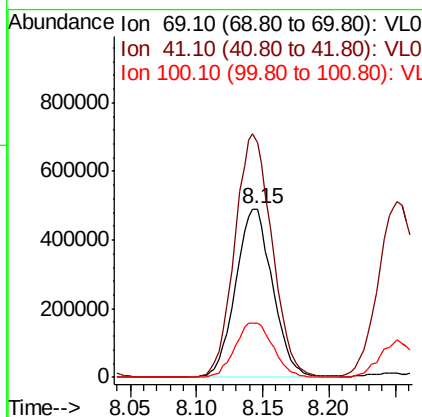
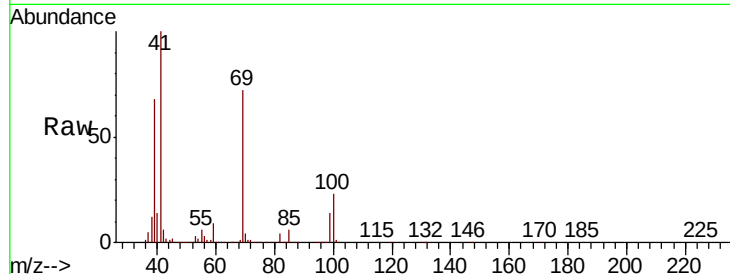
#43
Methyl Methacrylate
Concen: 10.238 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	145.3	116.6	175.0	
100	33.4	26.5	39.7	

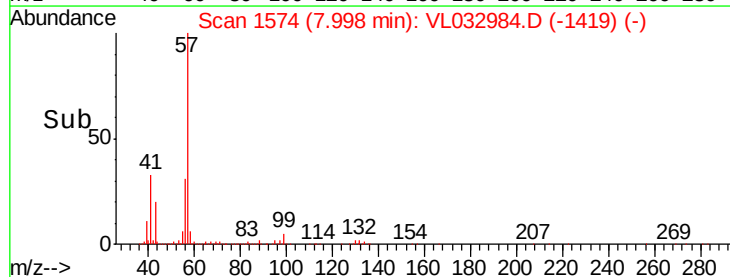
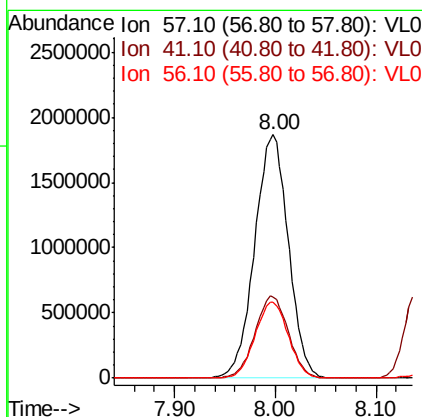
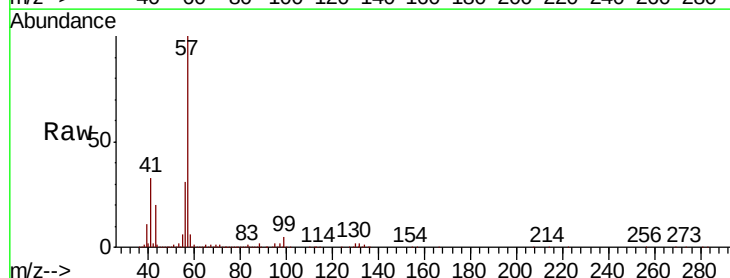
Manual Integrations
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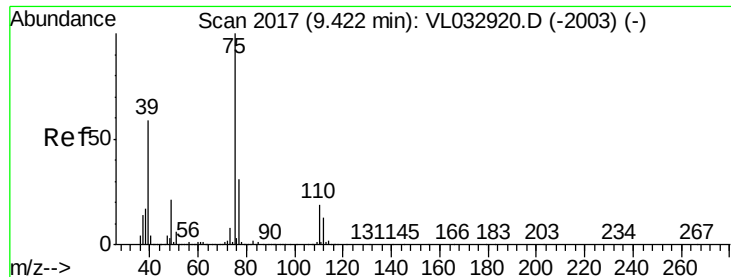
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#44
2,2,4-Trimethylpentane
Concen: 10.174 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.3	27.0	40.4	
56	30.8	24.6	37.0	





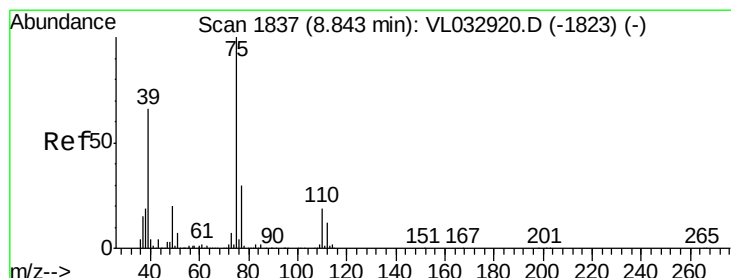
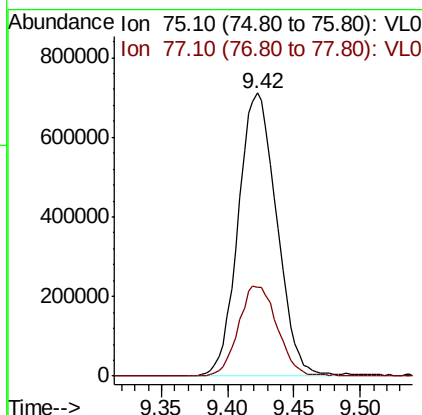
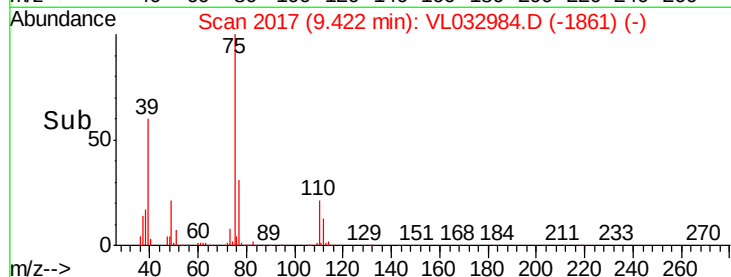
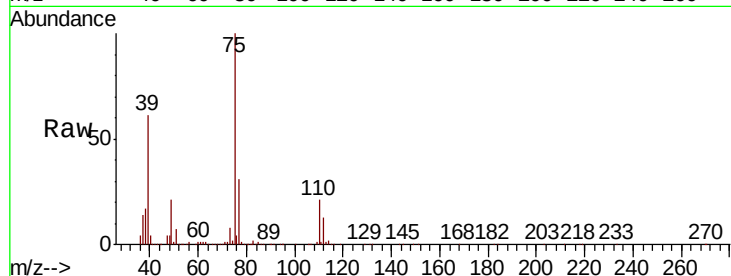
#45
t-1,3-Dichloropropene
Concen: 12.590 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1432717
Ion Ratio Lower Upper
75 100
77 31.4 24.8 37.2

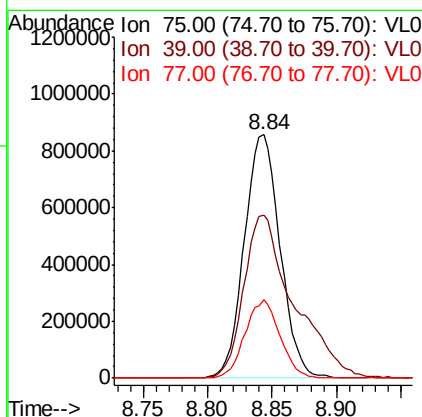
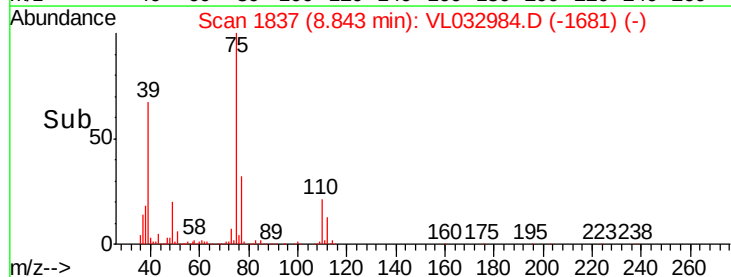
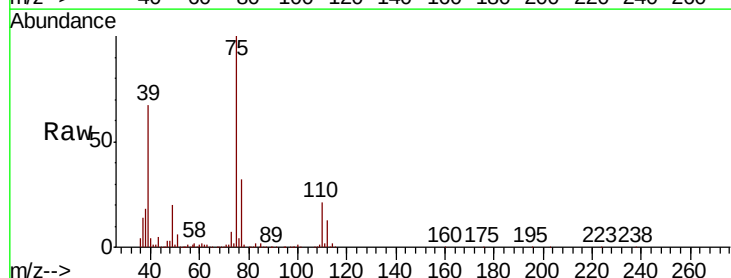
Manual Integrations
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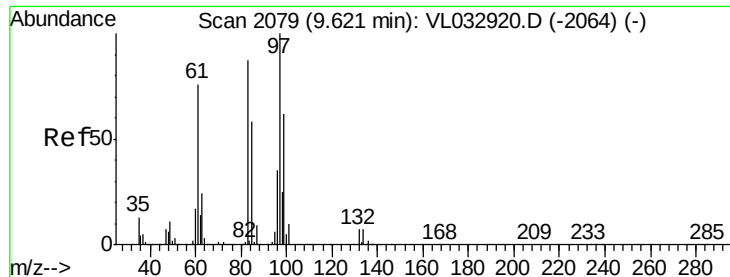
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 11.898 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. 0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion: 75 Resp: 1657221
Ion Ratio Lower Upper
75 100
39 66.7 52.8 79.2
77 32.2 24.3 36.5





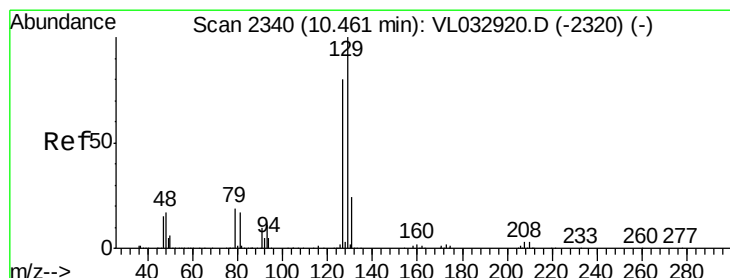
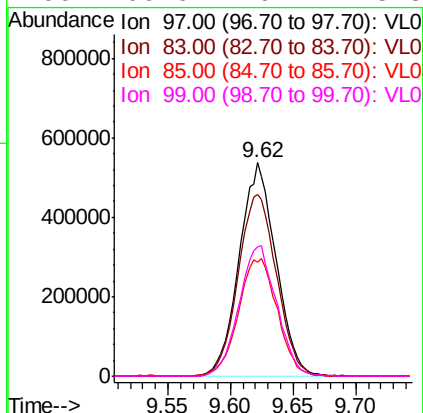
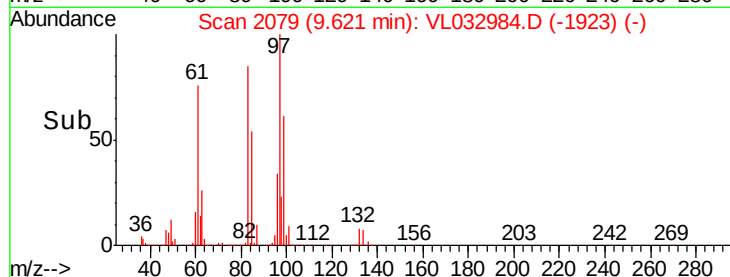
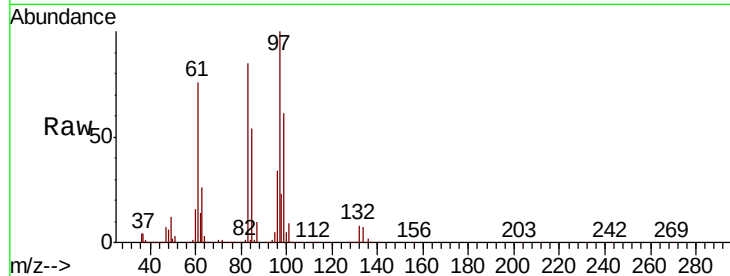
#47
 1,1,2-Trichloroethane
 Concen: 10.454 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.6	69.8	104.8
85	53.5	46.7	70.1
99	60.6	49.2	73.8

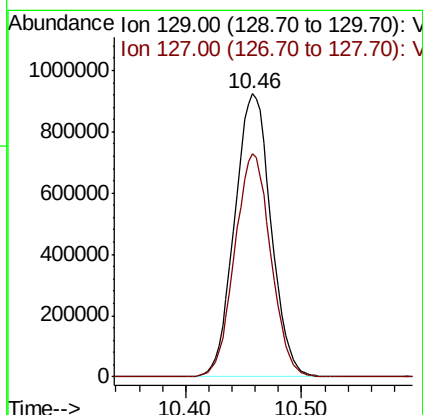
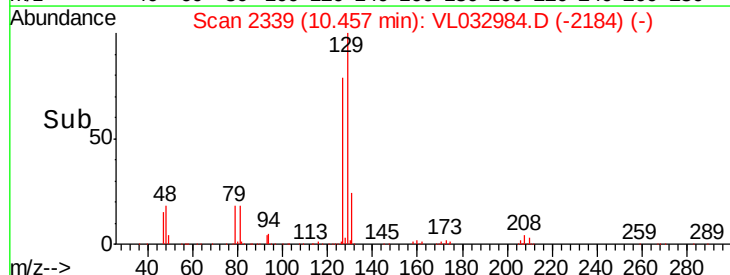
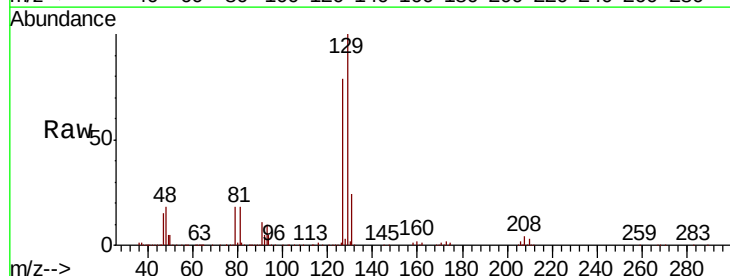
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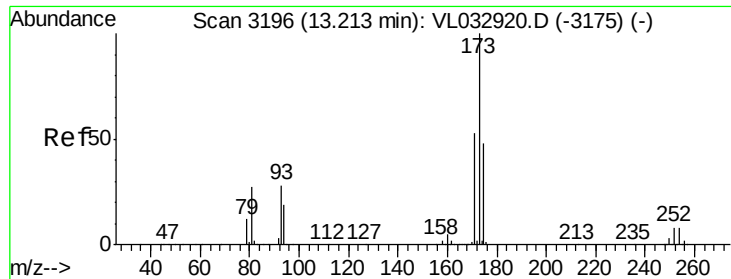
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#48
 Dibromochloromethane
 Concen: 10.262 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. -0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.3	117.8





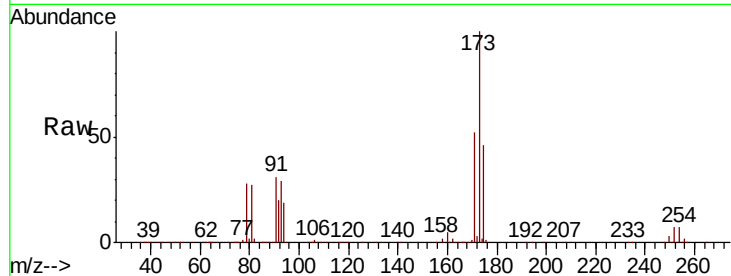
#49
Bromoform
Concen: 11.072 ppbv
RT: 13.21 min Scan# 3194
Delta R.T. -0.01 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

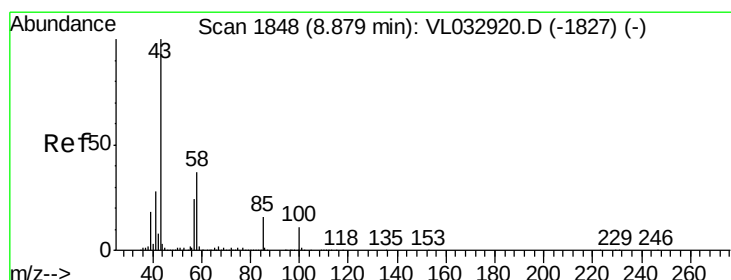
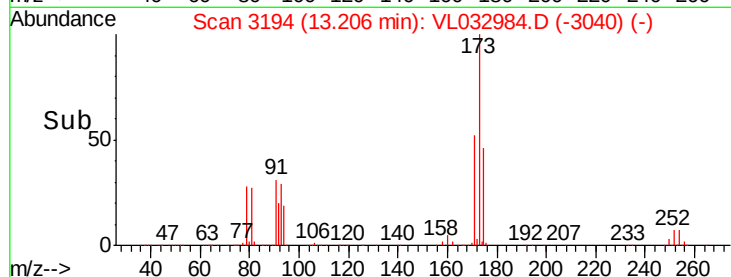
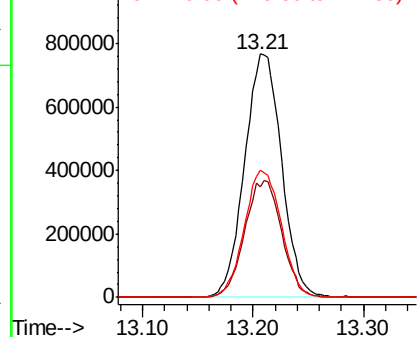
Tot Ion:173 Resp: 1786206
Ion Ratio Lower Upper
173 100
175 48.1 39.0 58.4
171 52.4 41.5 62.3

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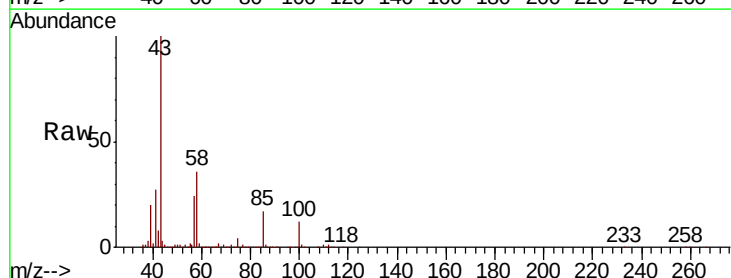


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

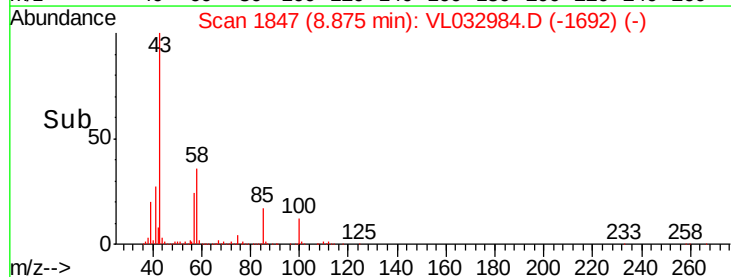
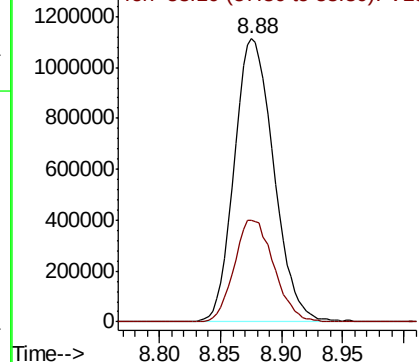


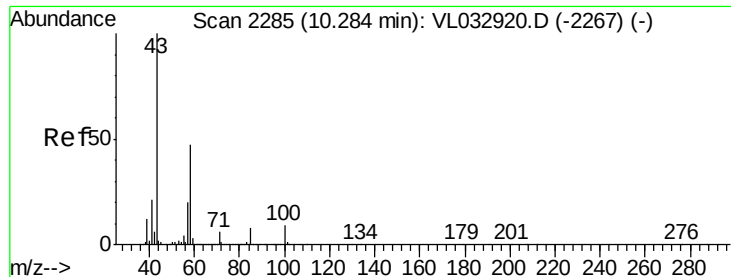
#50
4-Methyl-2-Pentanone
Concen: 10.518 ppbv
RT: 8.88 min Scan# 1847
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion: 43 Resp: 2494827
Ion Ratio Lower Upper
43 100
58 36.3 29.0 43.4



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





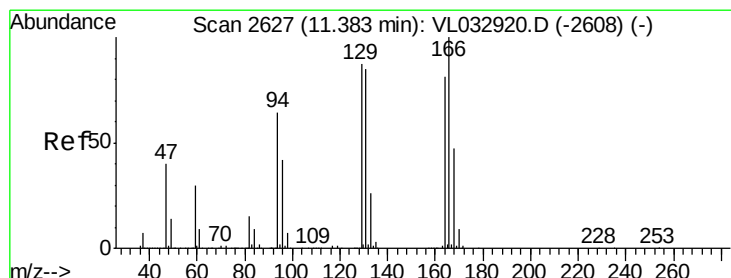
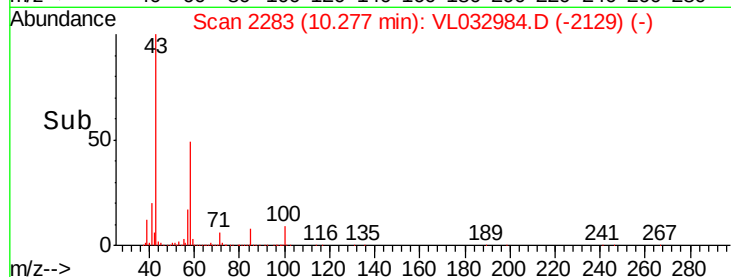
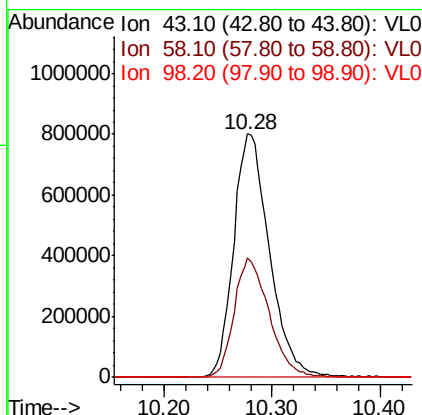
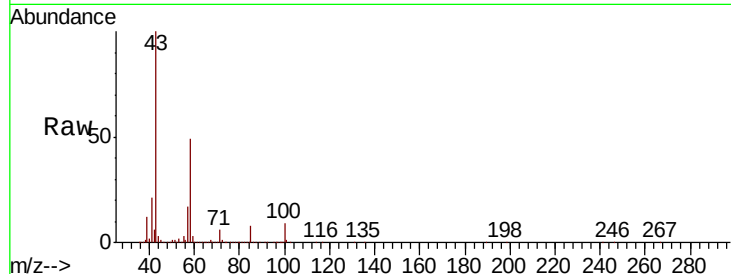
#51
2-Hexanone
Concen: 11.484 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.01 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1847400
Ion Ratio Lower Upper
43 100
58 48.3 38.1 57.1
98 0.1 0.4 0.6#

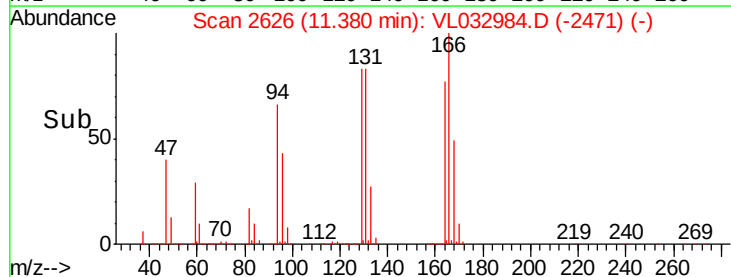
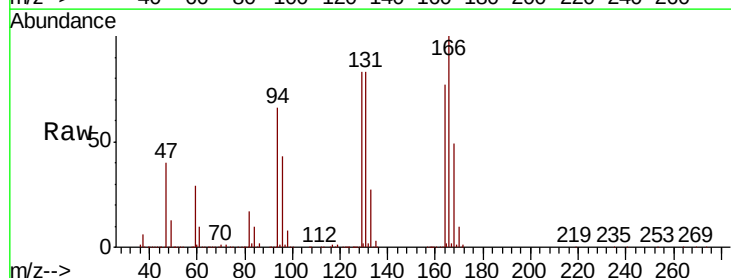
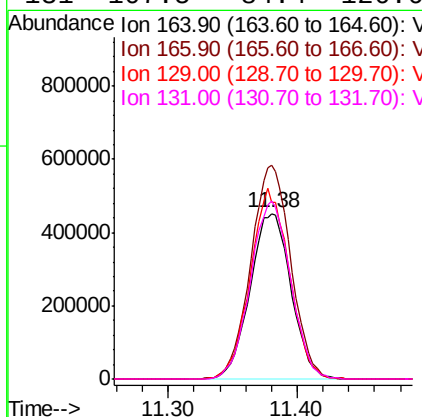
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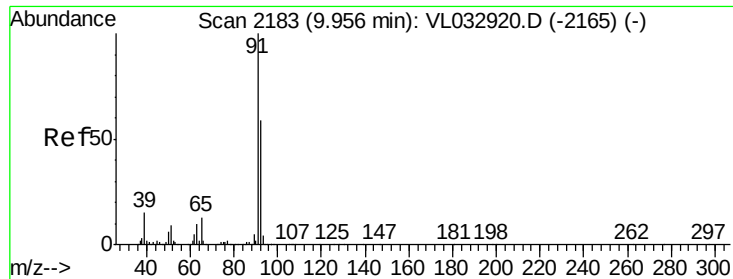
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#52
Tetrachloroethene
Concen: 10.942 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion: 164 Resp: 996954
Ion Ratio Lower Upper
164 100
166 129.1 98.8 148.2
129 106.9 85.5 128.3
131 107.5 84.4 126.6





#53

Toluene

Concen: 11.443 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3039923

Ion Ratio Lower Upper

91 100

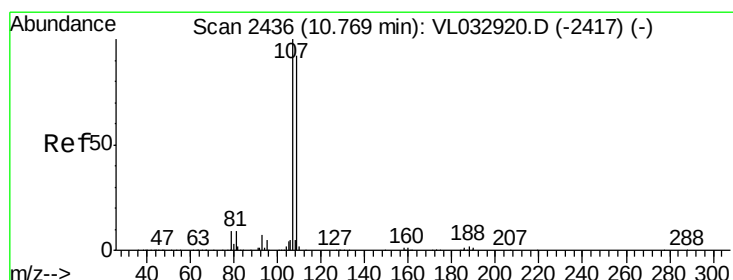
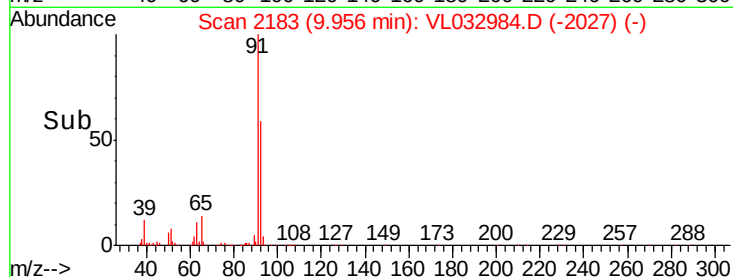
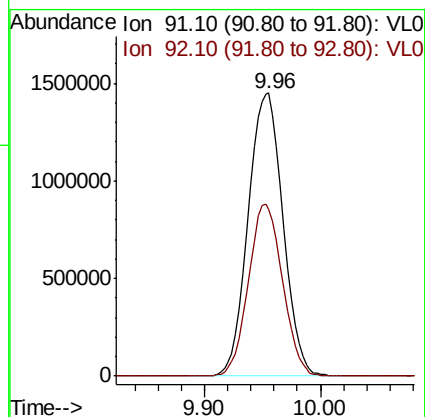
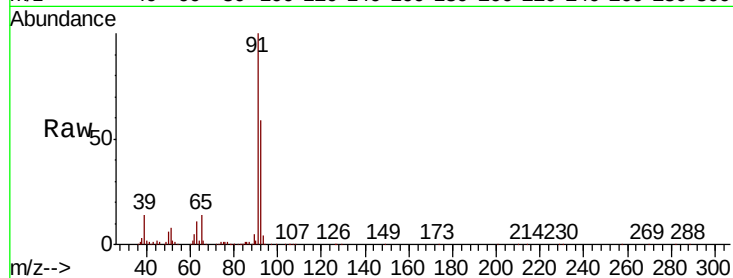
92 59.6 47.4 71.0

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.260 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL032984.D

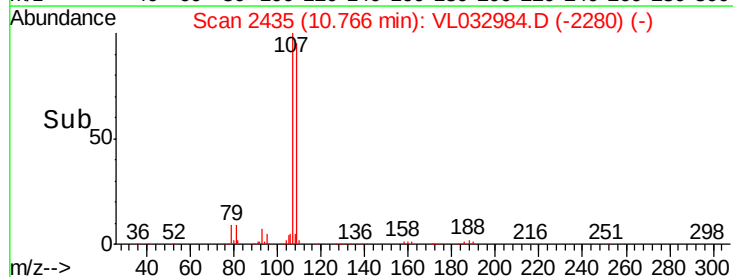
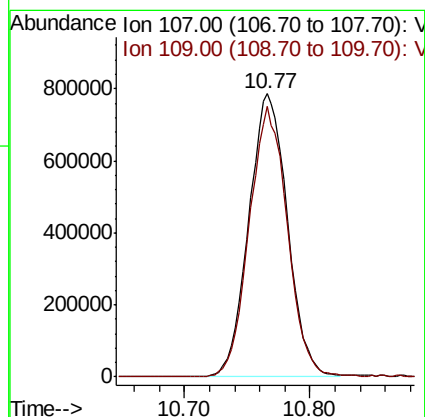
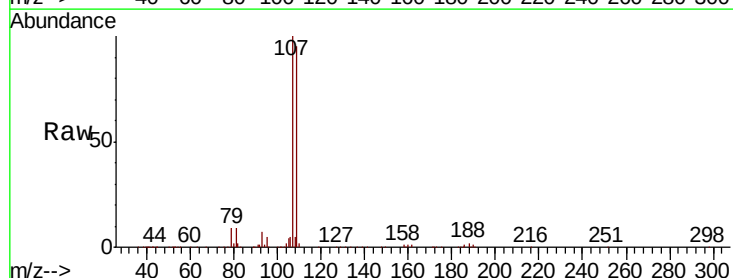
Acq: 13 Dec 2018 14:26

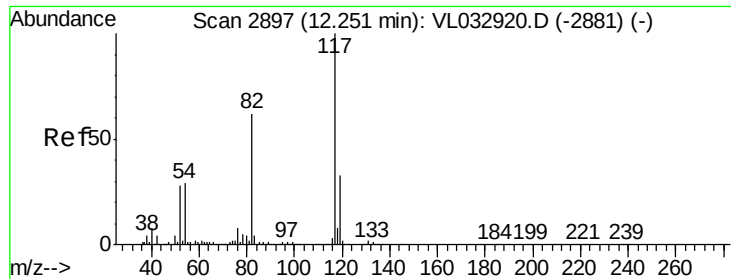
Tgt Ion:107 Resp: 1675924

Ion Ratio Lower Upper

107 100

109 95.4 73.4 110.2





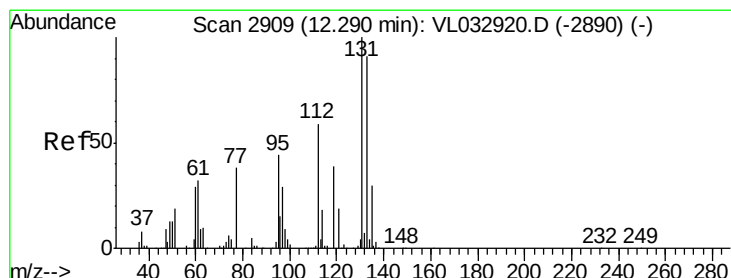
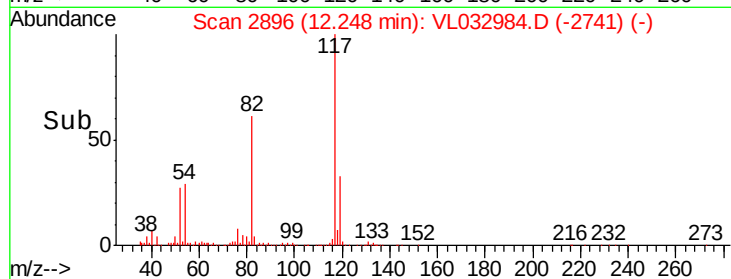
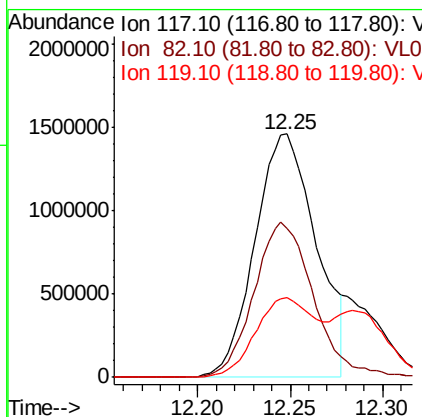
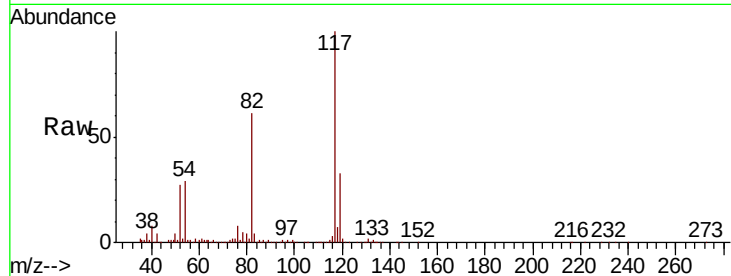
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.2	47.8	71.8
119	56.4	43.1	64.7

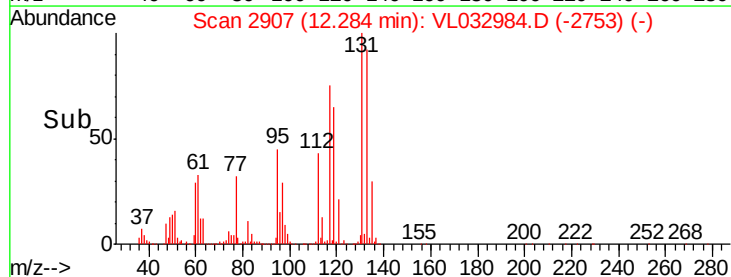
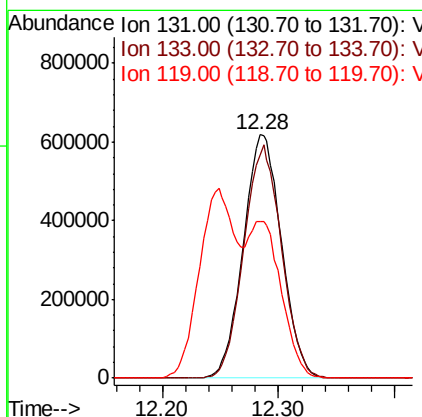
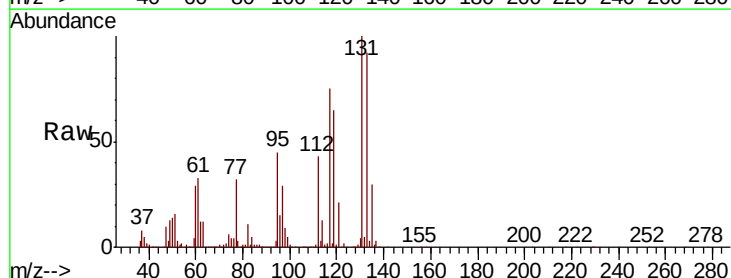
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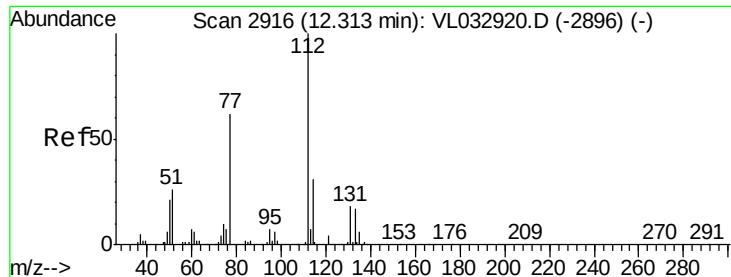
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.429 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	75.1	112.7
119	54.6	47.5	71.3





#57

Chlorobenzene

Concen: 9.541 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2318339

Ion Ratio Lower Upper

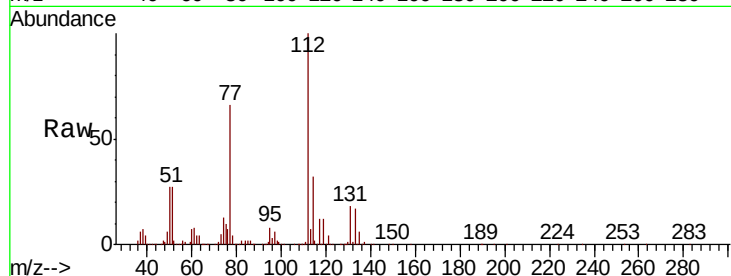
112 100

77 65.9 51.1 76.7

114 31.7 28.4 34.7

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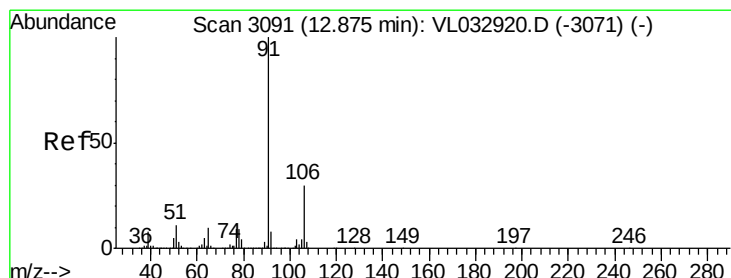
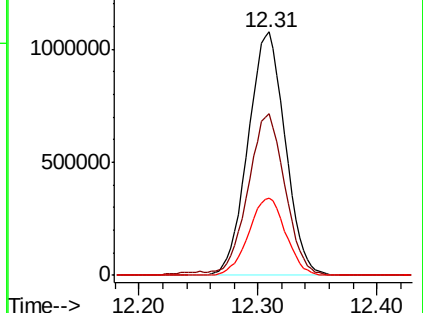
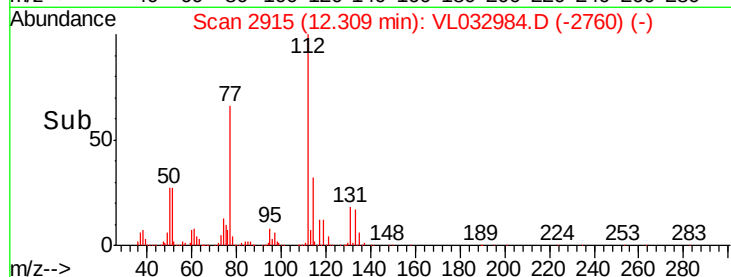
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.359 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032984.D

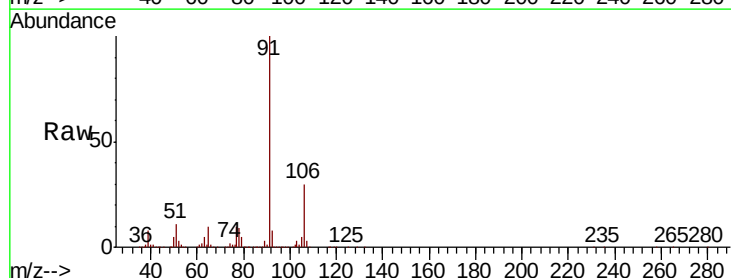
Acq: 13 Dec 2018 14:26

Tgt Ion: 91 Resp: 4076876

Ion Ratio Lower Upper

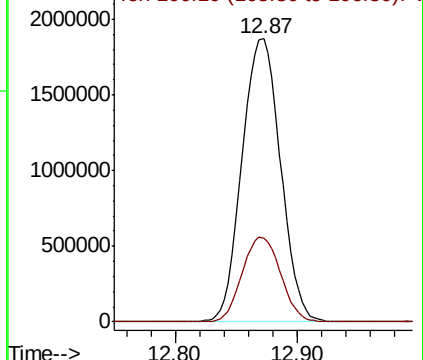
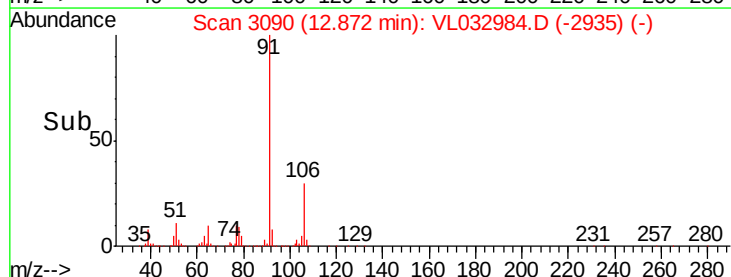
91 100

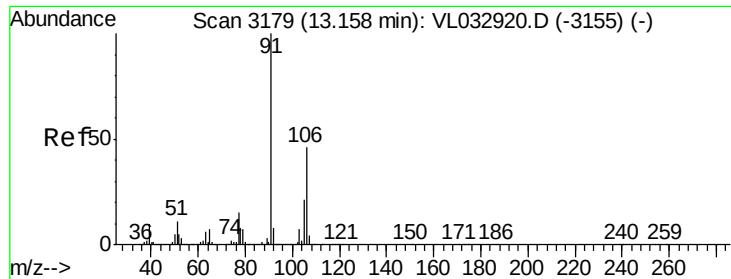
106 29.7 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





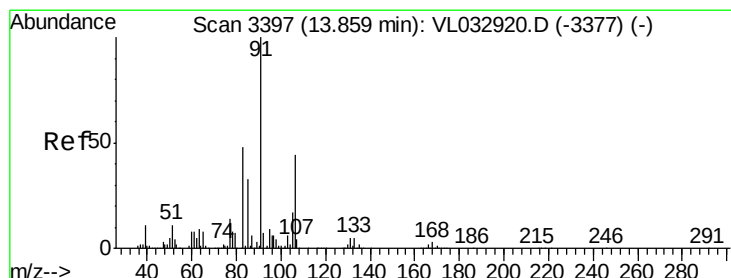
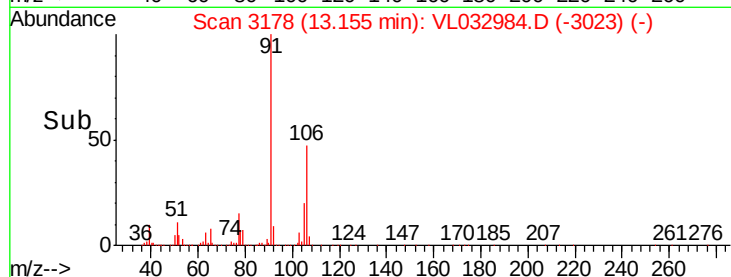
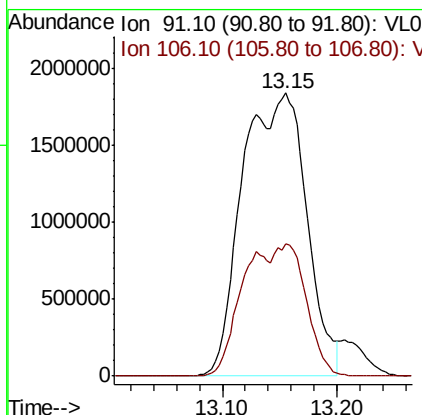
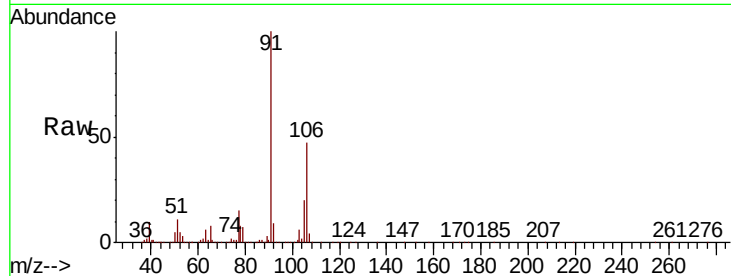
#59
m/p-Xylene
Concen: 21.883 ppbv m
RT: 13.15 min Scan# 3178
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7120674
Ion Ratio Lower Upper
91 100
106 45.5 0.0 0.0#

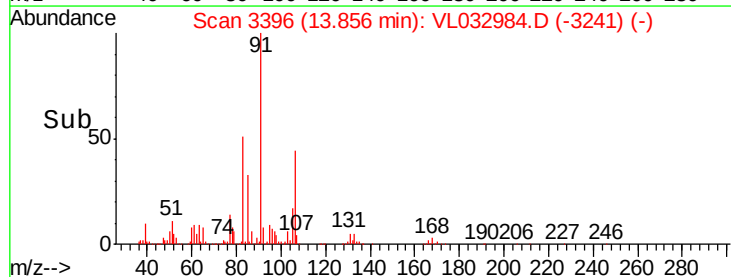
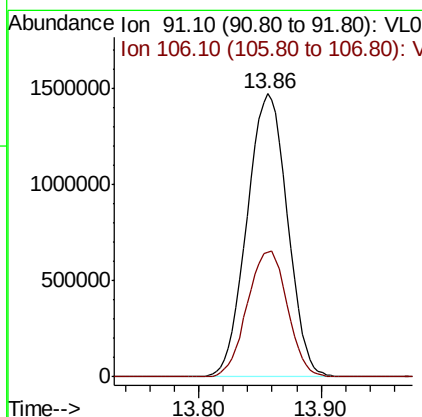
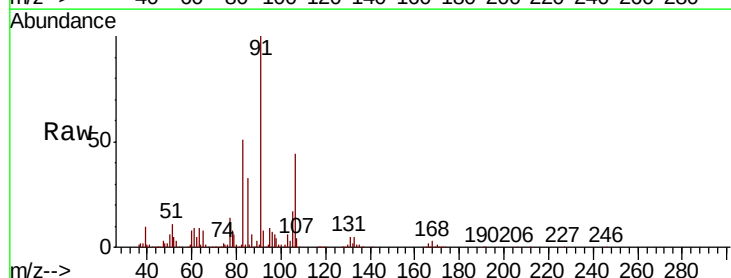
Manual Integrations
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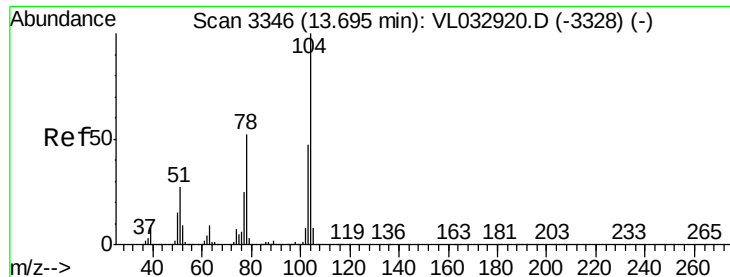
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#60
o-Xylene
Concen: 10.262 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion: 91 Resp: 3372238
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.8





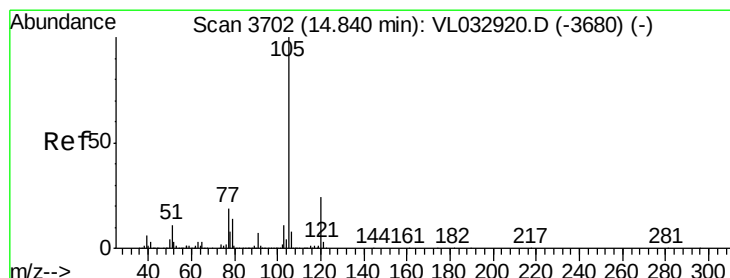
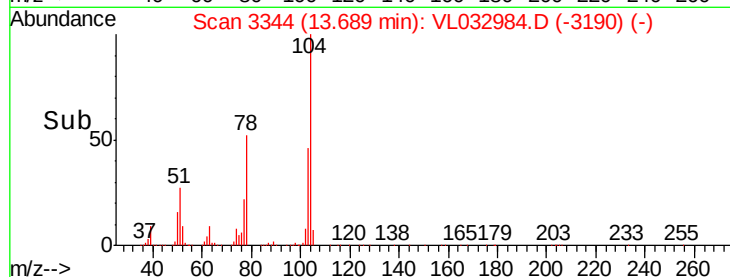
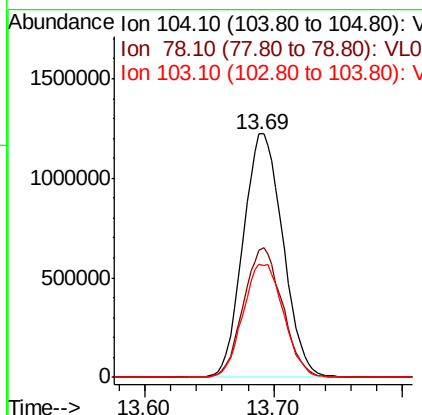
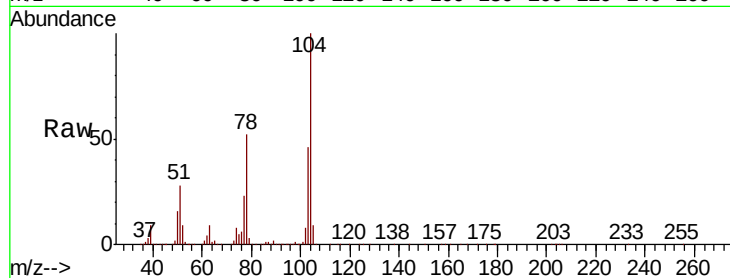
#61
Stvrene
Concen: 11.999 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.01 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.4	42.0	63.0
103	47.6	38.3	57.5

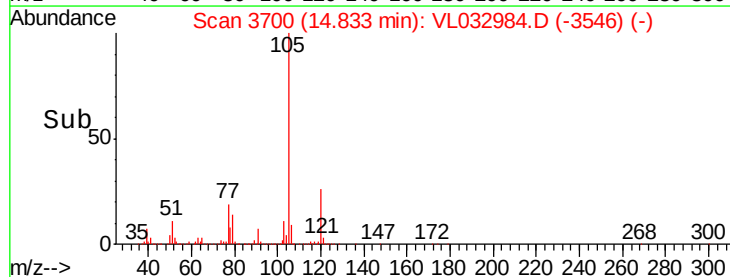
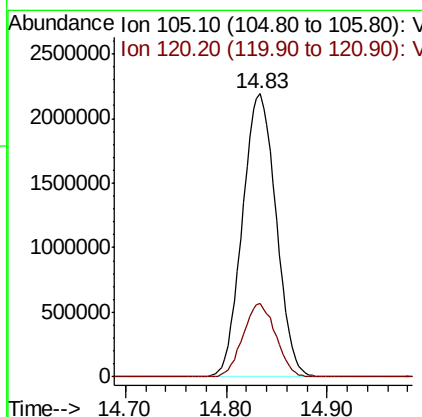
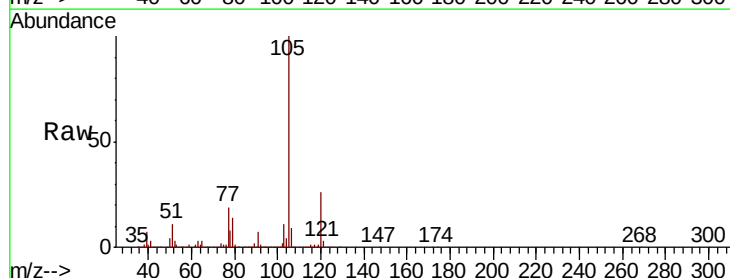
Manual Integrations
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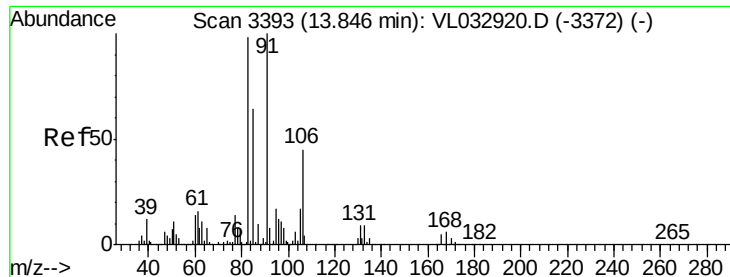
MMDadoda
12/14/2018 11:18:48 AM



#62
Isopropylbenzene
Concen: 11.036 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. -0.01 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.3	30.5





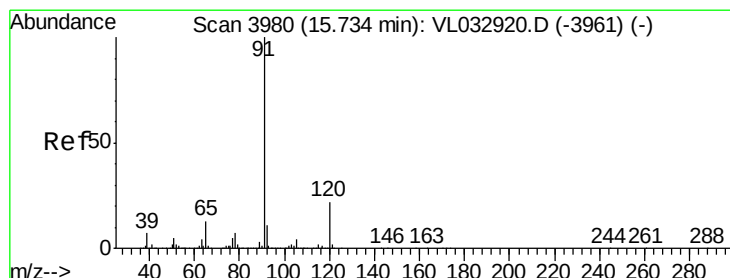
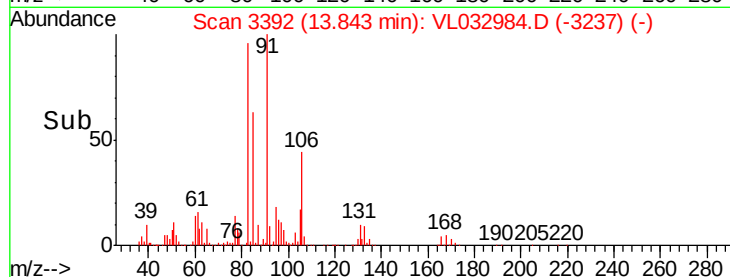
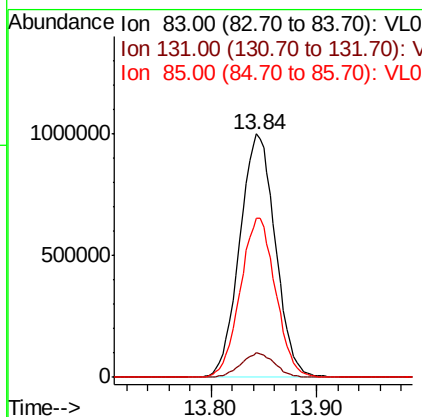
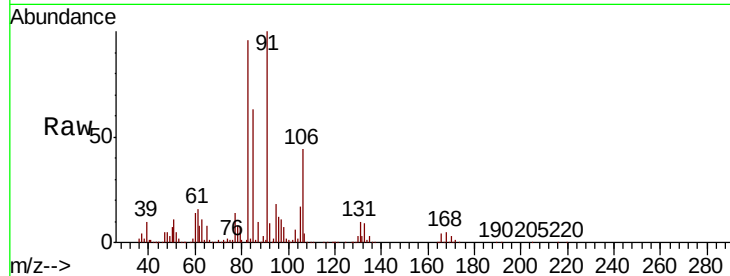
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.181 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. -0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	2342695
Ion Ratio	100	Lower	Upper
83	100		
131	9.7	4.9	14.6
85	64.9	32.9	98.6

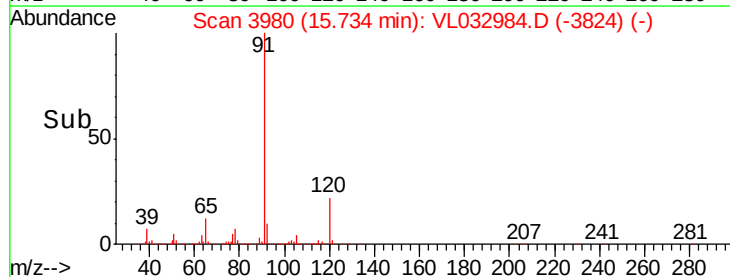
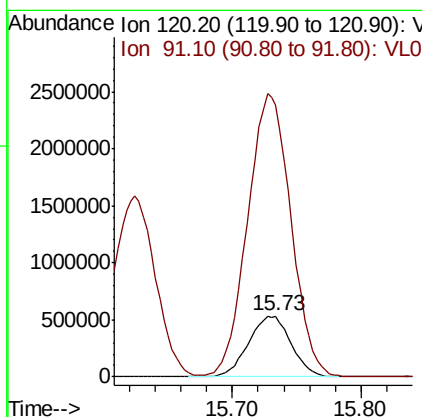
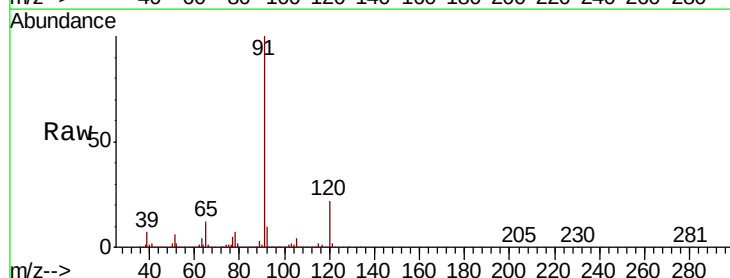
Manual Integrations
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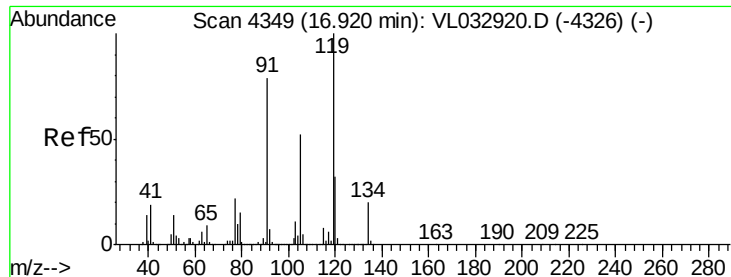
MMDadoda
 12/14/2018 11:18:48 AM



#64
 n-propylbenzene
 Concen: 10.297 ppbv
 RT: 15.73 min Scan# 3980
 Delta R.T. 0.00 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion	120	Resp	1226190
Ion Ratio	100	Lower	Upper
120	100		
91	474.8	380.4	570.6





#65

tert-Butylbenzene

Concen: 10.109 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. 0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4296787

Ion Ratio Lower Upper

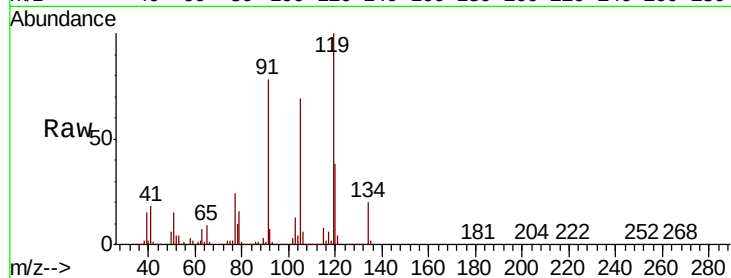
119 100

91 81.0 64.5 96.7

134 19.7 15.7 23.5

Manual Integrations
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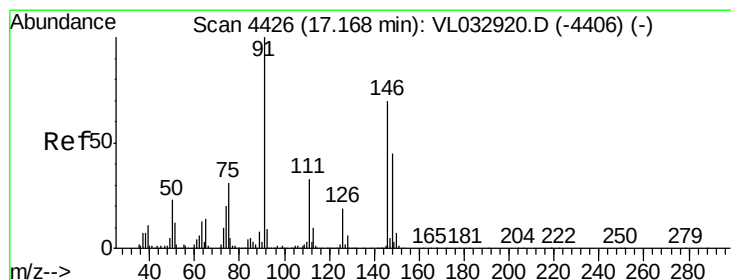
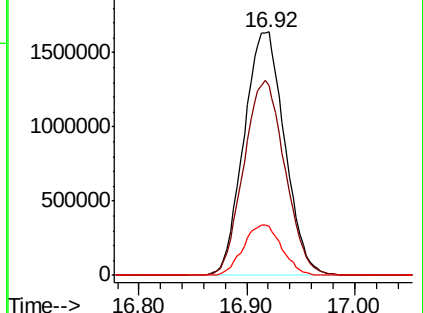
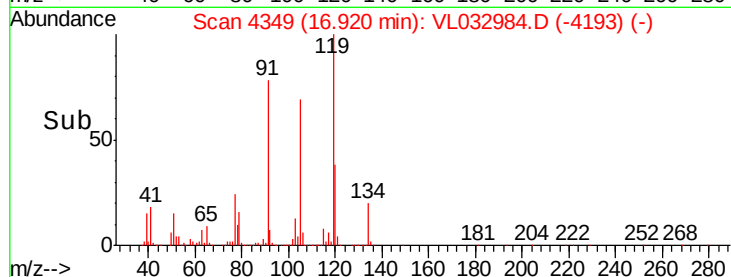
MMDadoda
12/14/2018 11:18:48 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.962 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

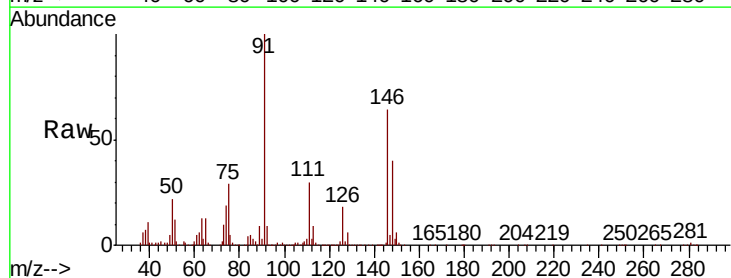
Tgt Ion: 91 Resp: 2582480

Ion Ratio Lower Upper

91 100

126 17.7 14.1 21.1

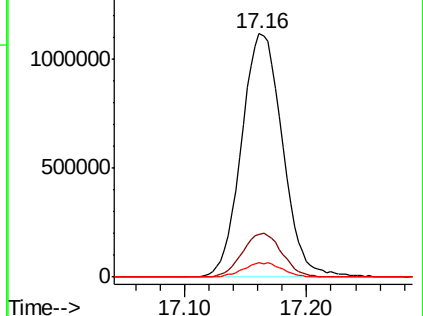
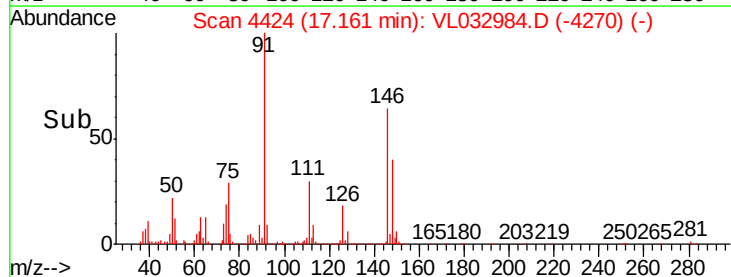
128 5.6 4.5 6.7

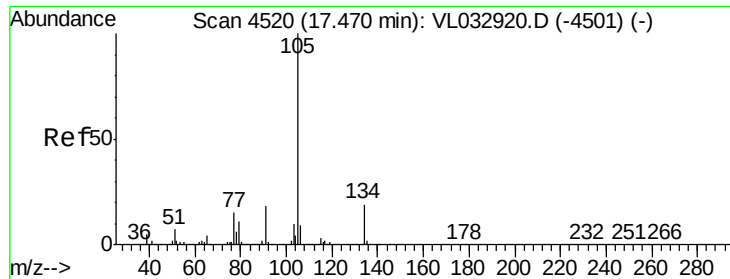


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





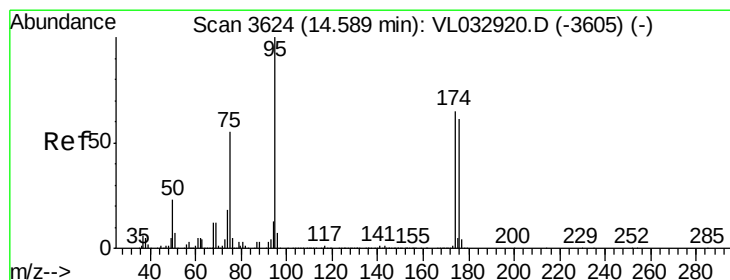
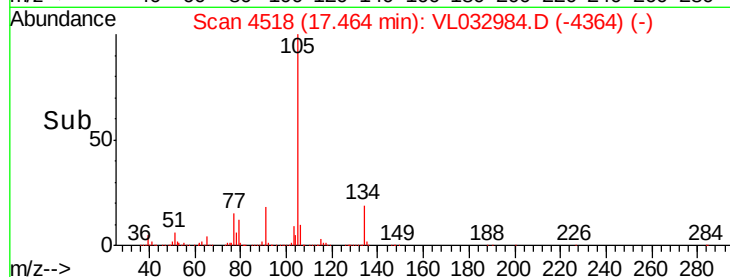
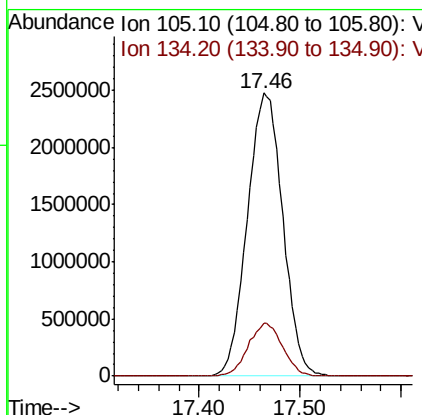
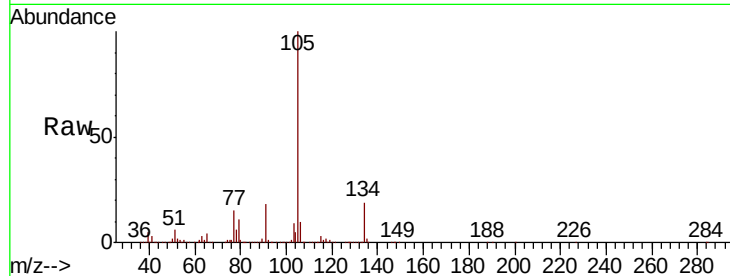
#67
 sec-Butylbenzene
 Concen: 9.632 ppbv
 RT: 17.46 min Scan# 4518
 Delta R.T. -0.01 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion: 105 Resp: 6035773
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8

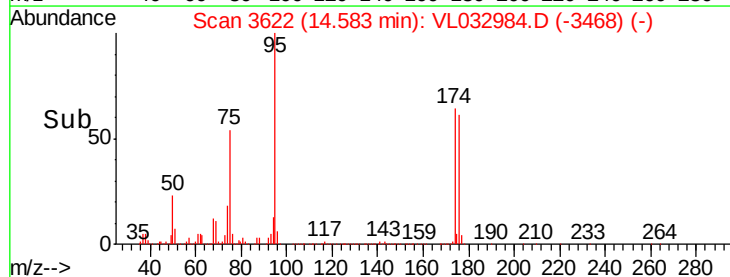
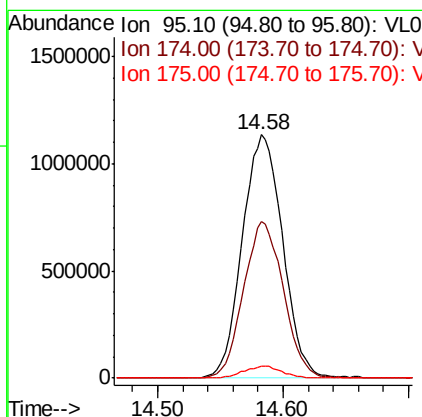
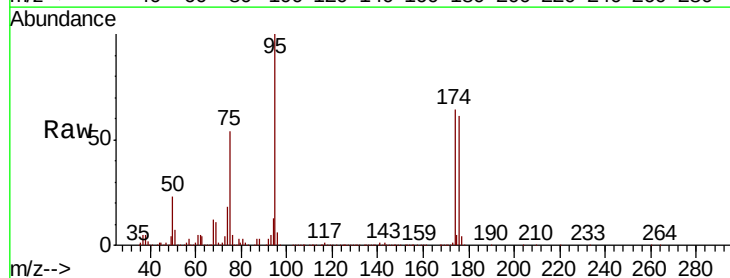
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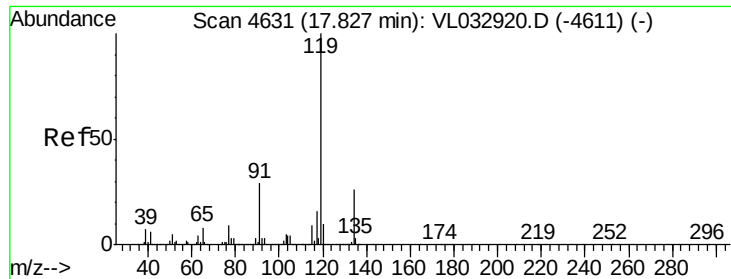
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.206 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion: 95 Resp: 2536668
 Ion Ratio Lower Upper
 95 100
 174 63.9 51.4 77.0
 175 4.8 3.8 5.6





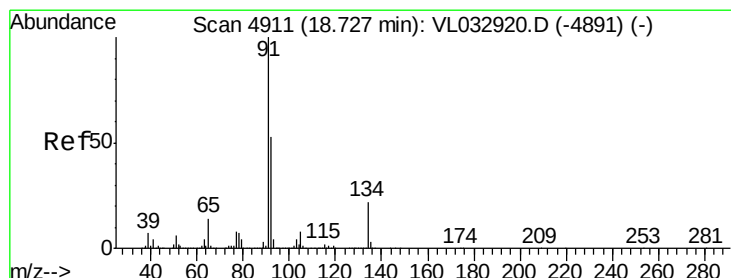
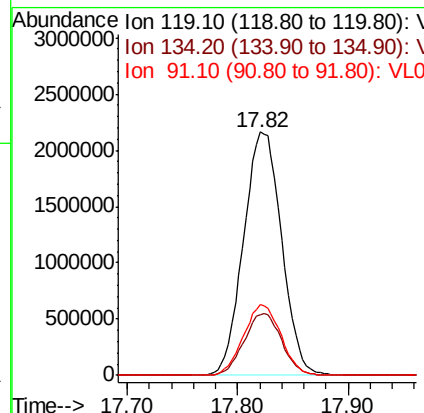
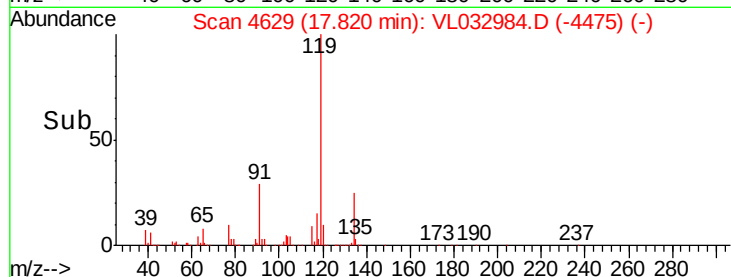
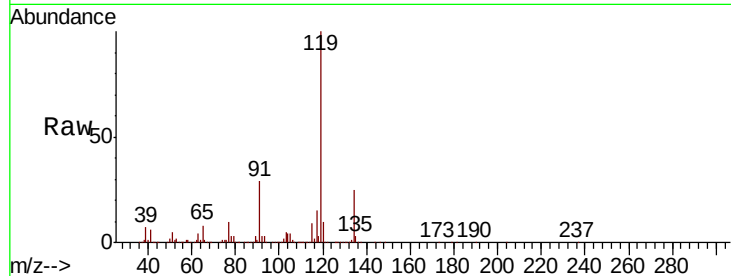
#69
 p-Isopropyltoluene
 Concen: 10.179 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.01 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.2	30.2
91	28.6	22.9	34.3

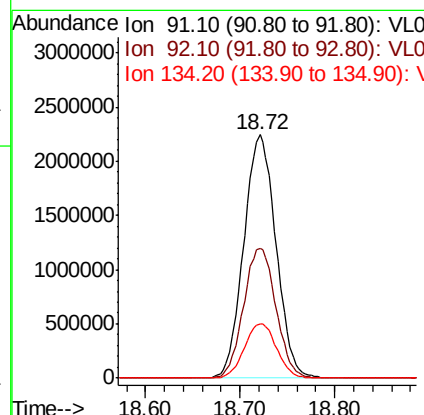
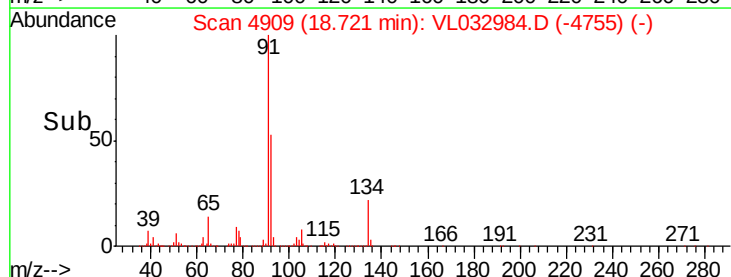
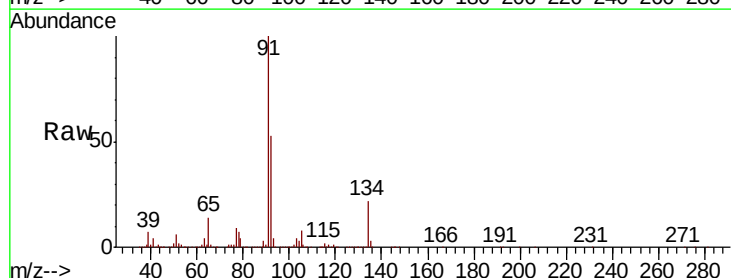
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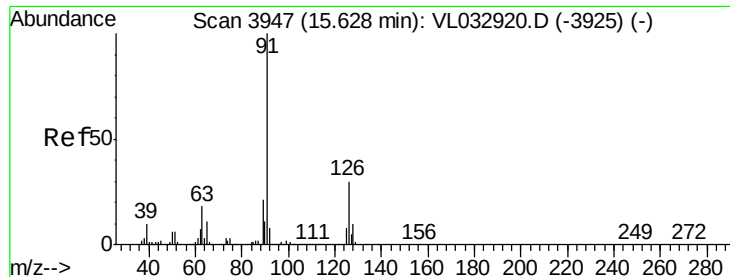
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#70
 n-Butylbenzene
 Concen: 11.336 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. -0.01 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	42.7	64.1
134	22.3	18.0	27.0





#71

2-Chlorotoluene

Concen: 10.522 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3587353

Ion Ratio Lower Upper

91 100

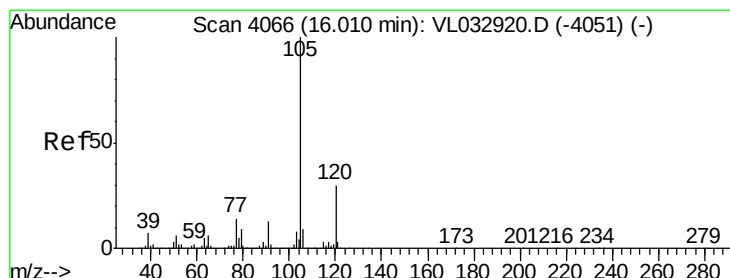
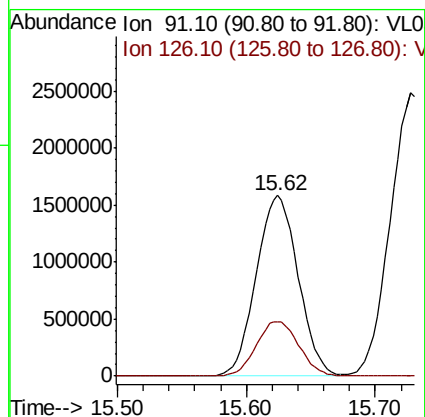
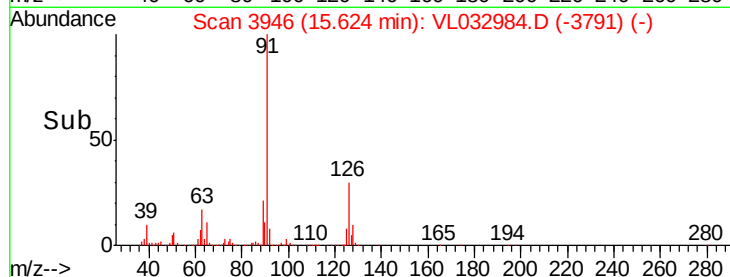
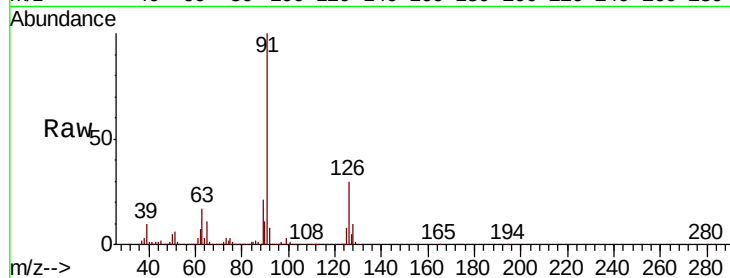
126 30.6 12.3 49.3

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#72

4-Ethyltoluene

Concen: 10.571 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Tgt Ion: 105 Resp: 3878245

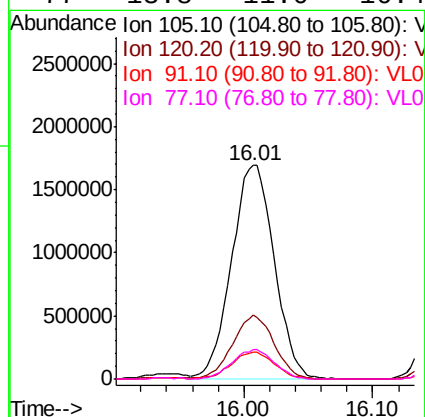
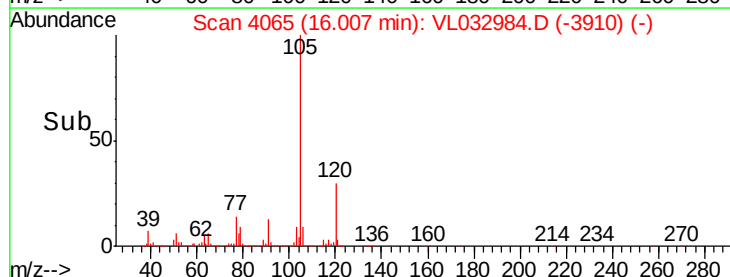
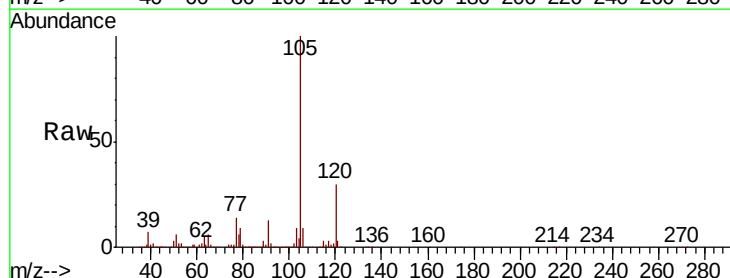
Ion Ratio Lower Upper

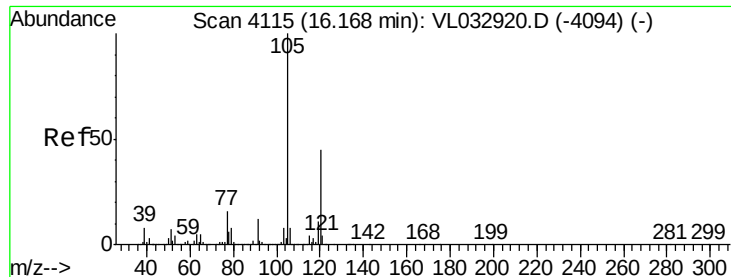
105 100

120 29.9 23.0 34.4

91 12.8 10.4 15.6

77 13.8 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 10.862 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3890223

Ion Ratio Lower Upper

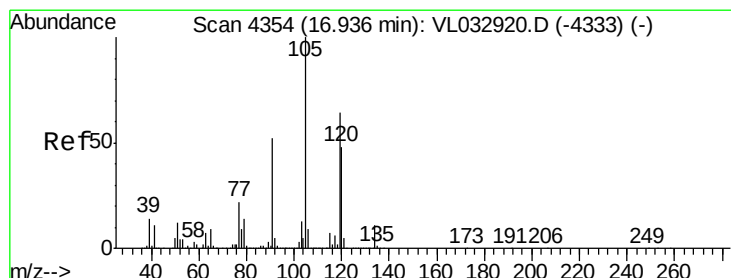
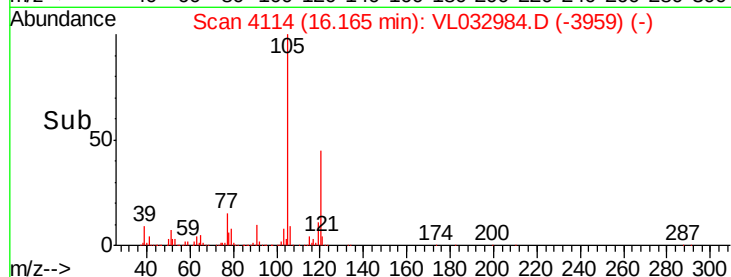
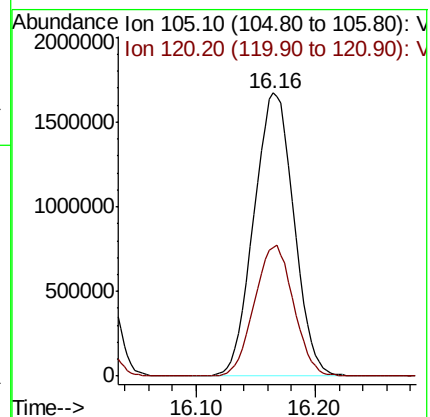
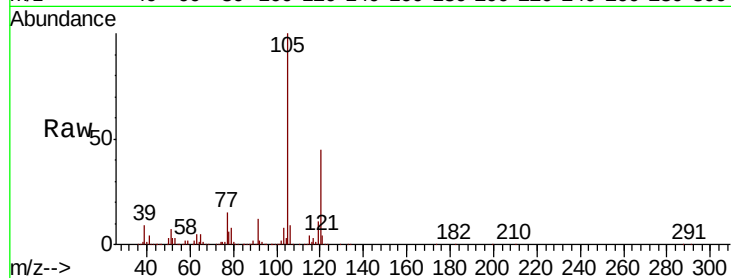
105 100

120 45.3 36.0 54.0

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#74

1,2,4-Trimethylbenzene

Concen: 9.634 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Tgt Ion:105 Resp: 3896124

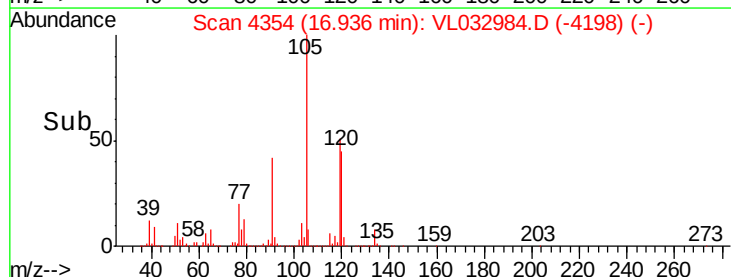
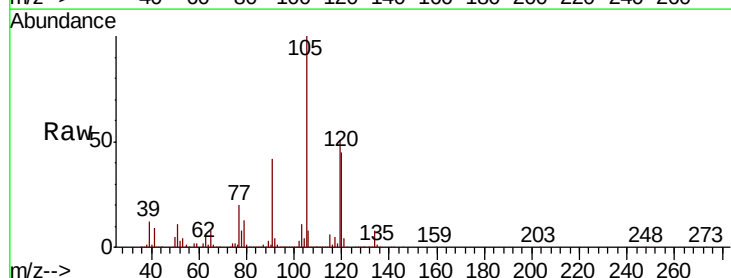
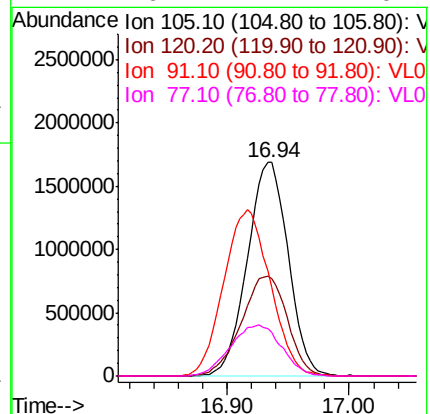
Ion Ratio Lower Upper

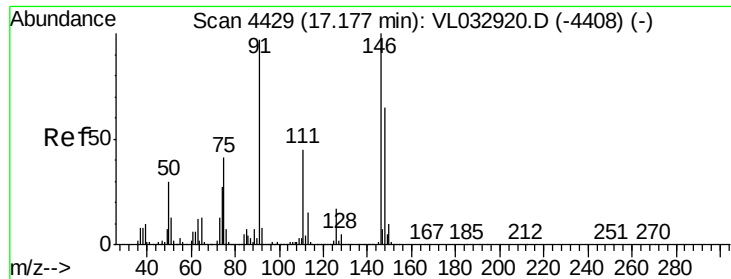
105 100

120 45.2 38.6 58.0

91 41.4 41.7 62.5#

77 20.1 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 9.169 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2183659

Ion Ratio Lower Upper

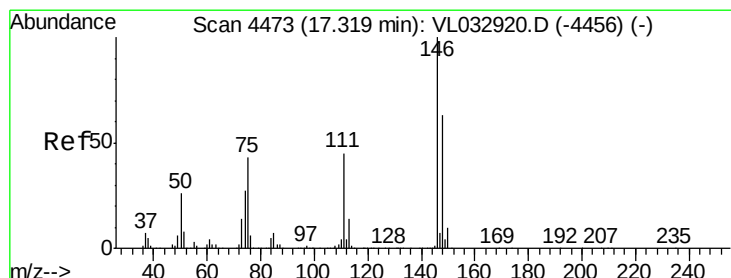
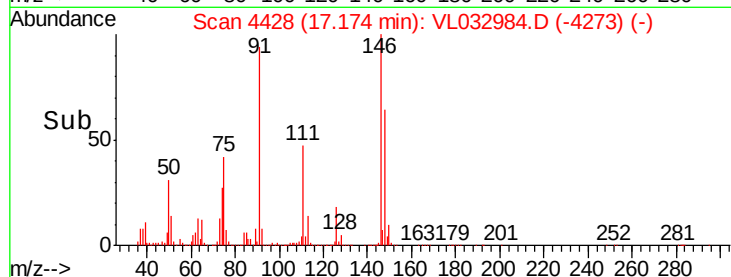
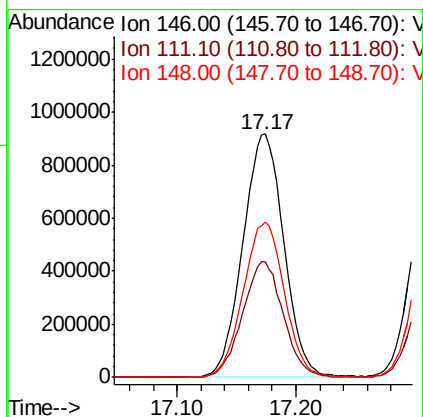
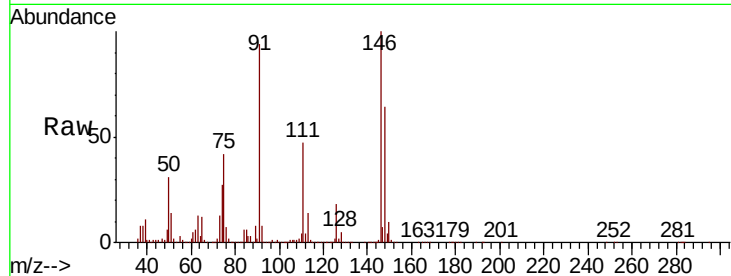
146 100

111 47.3 23.6 70.8

148 64.3 32.1 96.3

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#76

1,4-Dichlorobenzene

Concen: 9.569 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

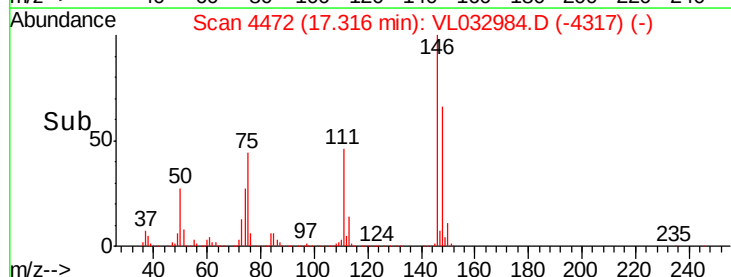
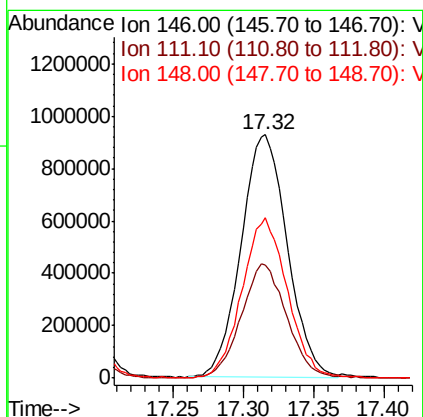
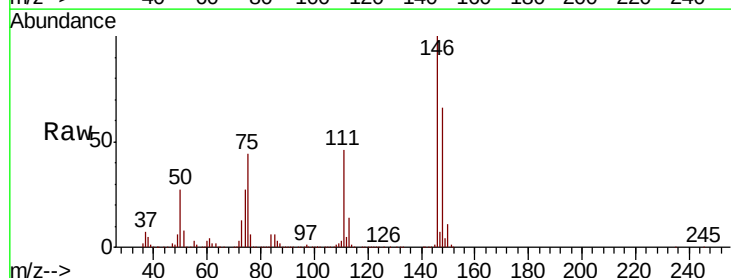
Tgt Ion:146 Resp: 2126338

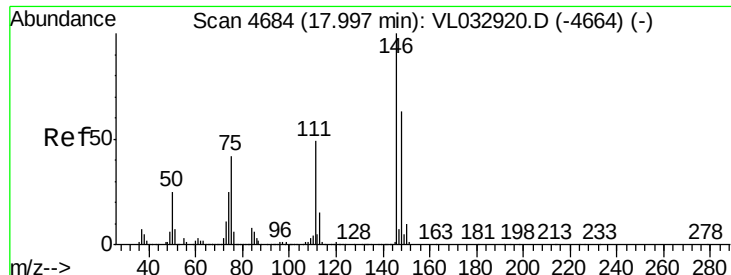
Ion Ratio Lower Upper

146 100

111 46.3 22.8 68.4

148 64.7 32.0 96.2





#77

1,2-Dichlorobenzene

Concen: 9.947 ppbv

RT: 17.99 min Scan# 4683

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2212062

Ion Ratio Lower Upper

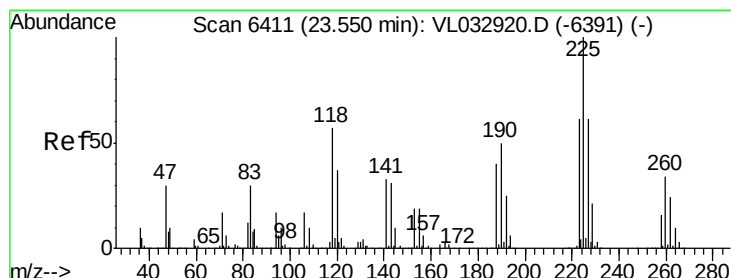
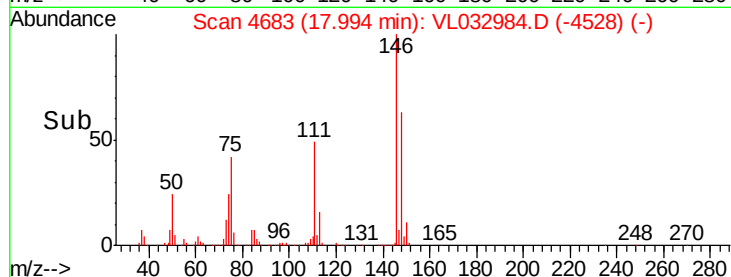
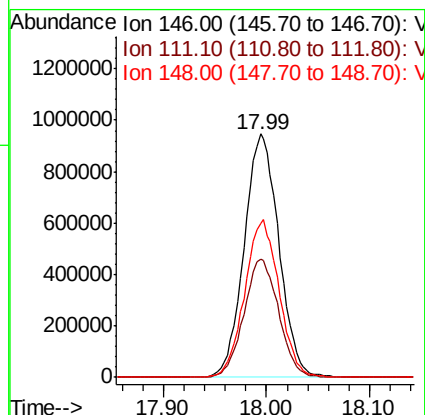
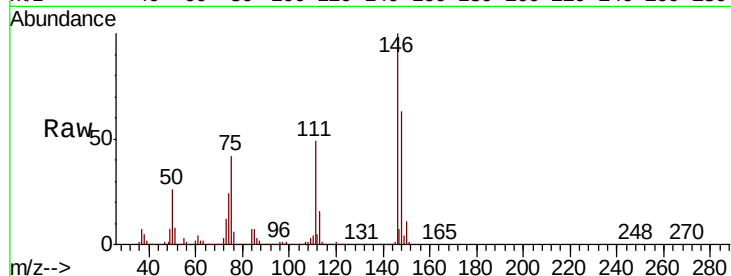
146 100

111 48.7 24.3 72.9

148 64.2 32.0 96.2

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 8.799 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. -0.00 min

Lab File: VL032984.D

Acq: 13 Dec 2018 14:26

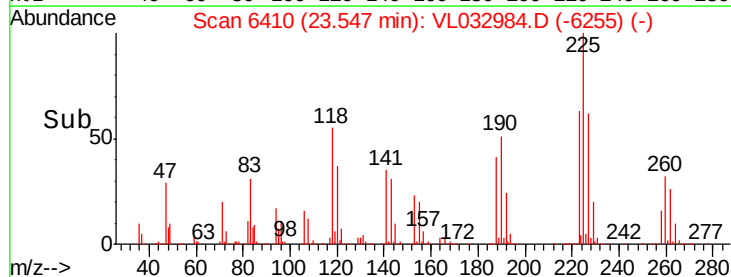
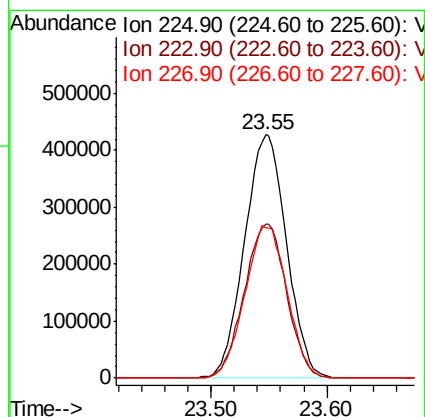
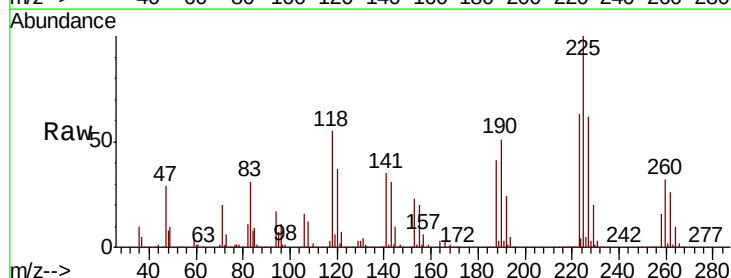
Tgt Ion:225 Resp: 1076161

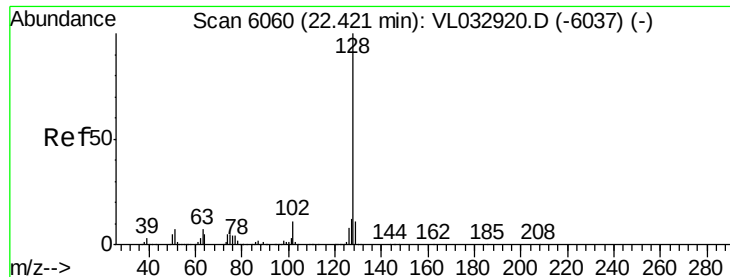
Ion Ratio Lower Upper

225 100

223 63.6 50.6 75.8

227 63.0 50.4 75.6





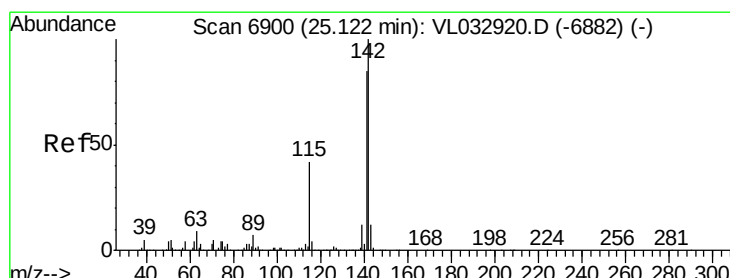
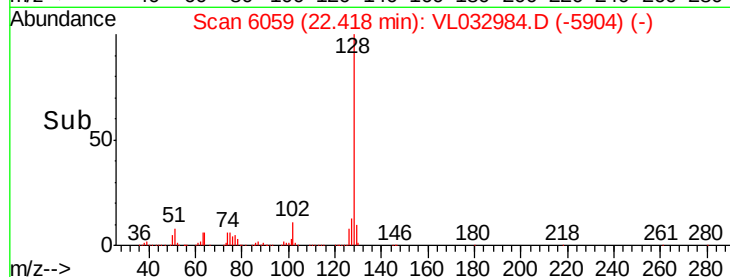
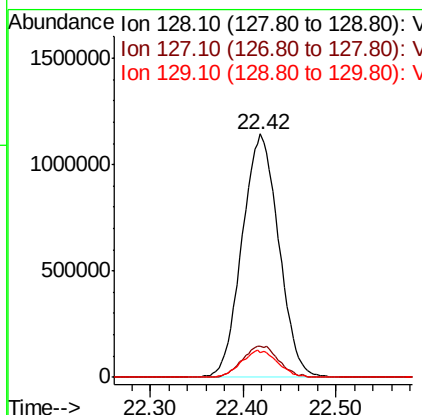
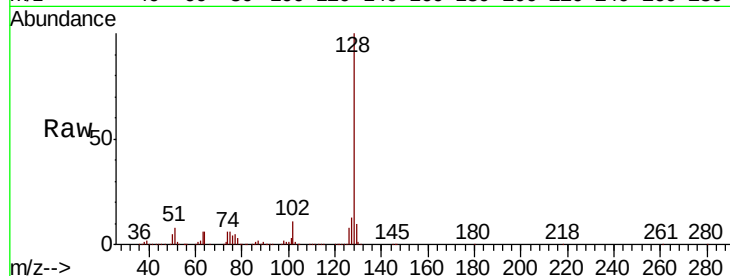
#79
Naphthalene
Concen: 12.011 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.9	14.9
129	10.3	8.6	13.0

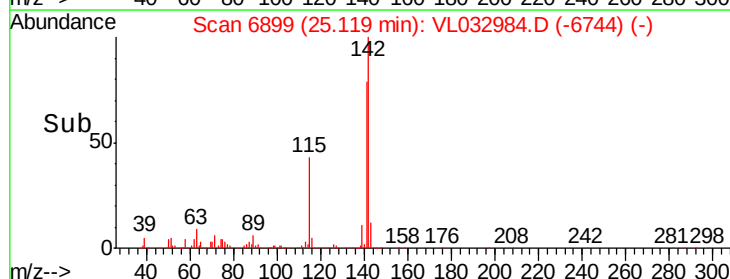
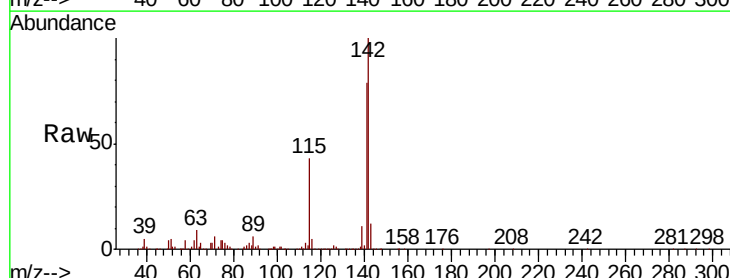
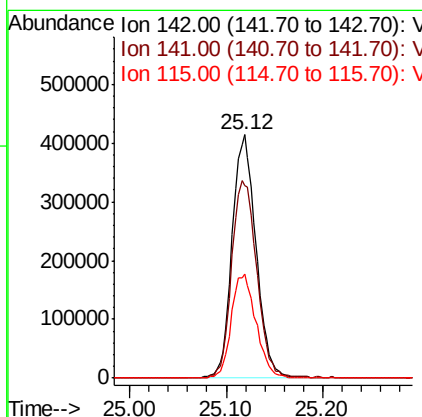
Manual Integrations
APPROVED

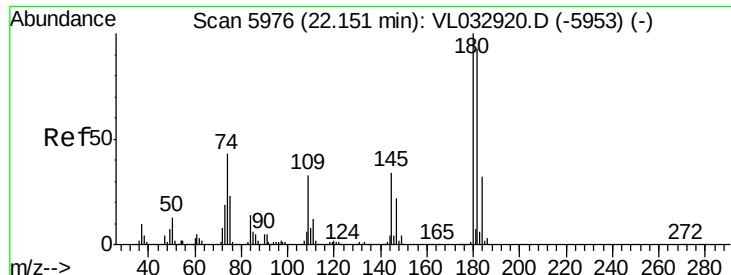
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#80
Naphthalene, 2-methyl-
Concen: 12.793 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL032984.D
Acq: 13 Dec 2018 14:26

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.6	68.2	102.2
115	44.4	35.1	52.7





#81
 1,2,4-Trichlorobenzene
 Concen: 11.018 ppbv
 RT: 22.15 min Scan# 5974
 Delta R.T. -0.01 min
 Lab File: VL032984.D
 Acq: 13 Dec 2018 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	77.0	115.6
184	29.9	24.3	36.5

Manual Integrations
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