

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121318\
 Data File : VL032986.D
 Acq On : 13 Dec 2018 16:26
 Operator : SY/AP
 Sample : VL1213ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL1213ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 11:18:53 AM

Quant Time: Dec 14 02:40:50 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	1257966	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3313645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3433391m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2507934	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1740514	10.364	ppbv	99
3) Chlorodifluoromethane	3.01	51	948660	9.958	ppbv	99
4) Chloromethane	3.17	50	509028	9.177	ppbv	97
5) Vinyl Chloride	3.29	62	529905	9.390	ppbv	98
6) Bromomethane	3.51	94	360784	10.221	ppbv	98
7) Chloroethane	3.60	64	204434	10.107	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1358141	9.732	ppbv	99
9) Propene	3.04	41	377054	10.009	ppbv	97
10) Heptane	8.25	43	1339375	9.465	ppbv	100
11) Trichlorofluoromethane	4.00	101	1569247	9.918	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1531452	11.345	ppbv	98
13) Ethanol	3.65	45	89125	6.871	ppbv	96
14) Bromoethene	3.79	108	468532	10.454	ppbv	98
15) Acetone	3.90	43	969586	8.980	ppbv	100
16) 1,3-Butadiene	3.36	39	489024	11.416	ppbv	96
17) tert-Butyl alcohol	4.36	59	312455	11.366	ppbv #	81
18) 1,1-Dichloroethene	4.35	96	587875	11.120	ppbv	99
19) Isopropyl Alcohol	4.02	45	667437	9.843	ppbv	99
20) Methylene Chloride	4.41	84	571435	10.828	ppbv	97
21) Allyl Chloride	4.48	41	1098620	12.485	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	625964	9.540	ppbv	99
23) Vinyl Acetate	5.16	43	2250418	12.310	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1707028	10.738	ppbv	99
25) Ethyl Acetate	5.77	43	2472459	9.693	ppbv	100
26) Hexane	5.78	57	1132759	9.619	ppbv	98
27) Carbon Disulfide	4.62	76	1470340	9.986	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2130284	12.045	ppbv	100
29) Chloroform	5.85	83	1925518	9.164	ppbv	100
30) Cyclohexane	7.25	84	1046176	10.719	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1132199	10.477	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	2206521	9.925	ppbv	100
34) 2-Butanone	5.33	43	1617228	11.205	ppbv	98
35) Carbon Tetrachloride	7.14	117	2288201	8.785	ppbv	100
36) Benzene	7.01	78	2199066	9.023	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1650569	9.947	ppbv	100
38) Trichloroethene	7.97	130	1045096	10.304	ppbv	97
39) 1,2-Dichloropropane	7.74	63	822114	8.894	ppbv	95
40) 1,4-Dioxane	7.96	88	324141	9.521	ppbv #	98
41) Tetrahydrofuran	6.15	42	966012	10.761	ppbv	99
42) Bromodichloromethane	7.92	83	2280361	9.919	ppbv	99
43) Methyl Methacrylate	8.14	69	896496	9.927	ppbv	99

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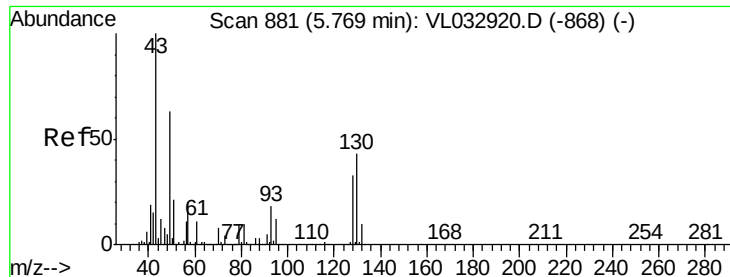
Manual Integrations
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 12/14/2018 11:18:53 AM

Quant Time: Dec 14 02:40:50 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)
44) 2,2,4-Trimethylpentane	7.99	57	4195389	10.141	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1398922	12.633	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1588672	11.722	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1055171	10.371	ppbv	98
48) Dibromochloromethane	10.46	129	1993461	10.445	ppbv	99
49) Bromoform	13.21	173	1682782	10.720	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2406615	10.427	ppbv	100
51) 2-Hexanone	10.27	43	1826963m	11.671	ppbv	
52) Tetrachloroethene	11.38	164	981495	11.071	ppbv	99
53) Toluene	9.95	91	2952826	11.423	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1655108	10.414	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1399413	9.142	ppbv	96
57) Chlorobenzene	12.31	112	2272949	9.166	ppbv	98
58) Ethyl Benzene	12.87	91	3989615	10.893	ppbv	99
59) m/p-Xylene	13.15	91	6788950m	20.445	ppbv	
60) o-Xylene	13.86	91	3347582	9.982	ppbv	100
61) Styrene	13.69	104	2438354	10.931	ppbv	100
62) Isopropylbenzene	14.83	105	4992700	10.671	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2323232	8.922	ppbv	99
64) n-propylbenzene	15.73	120	1213506	9.986	ppbv	99
65) tert-Butylbenzene	16.92	119	4245305	9.788	ppbv	99
66) Benzyl Chloride	17.16	91	2603257	10.829	ppbv	100
67) sec-Butylbenzene	17.47	105	5974721	9.343	ppbv	100
69) p-Isopropyltoluene	17.82	119	5013032	9.673	ppbv	99
70) n-Butylbenzene	18.72	91	5287405	11.089	ppbv	99
71) 2-Chlorotoluene	15.62	91	3558338	10.227	ppbv	99
72) 4-Ethyltoluene	16.00	105	3839152	10.255	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3798227	10.392	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3865964	9.368	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	2165465	8.910	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2113476	9.320	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2206347	9.722	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	956791	7.666	ppbv	99
79) Naphthalene	22.42	128	3008817	11.291	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	638918	11.222	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1446835	10.238	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: VL032986.D

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MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 49 Resp: 1257966

Ion Ratio Lower Upper

49 100

128 51.1 26.3 78.8

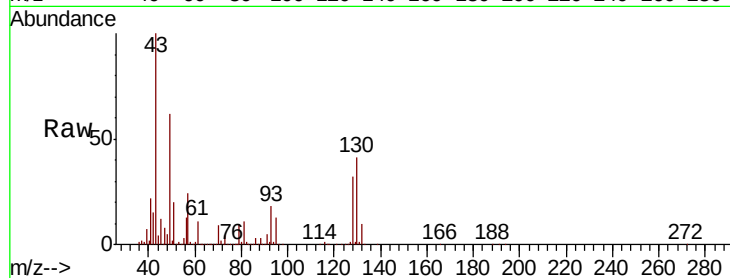
130 65.5 33.9 101.7

Manual Integrations

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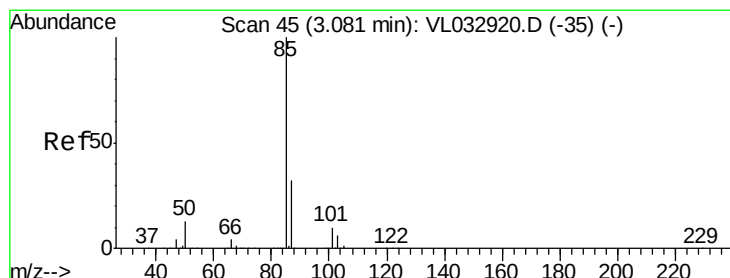
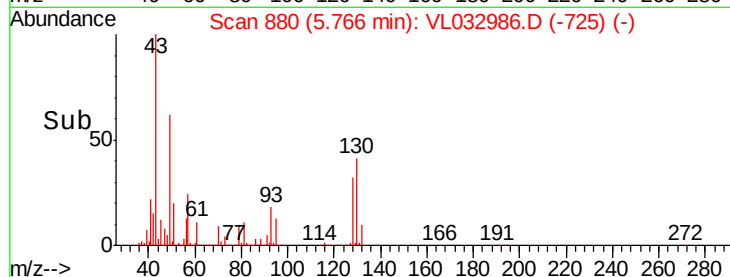
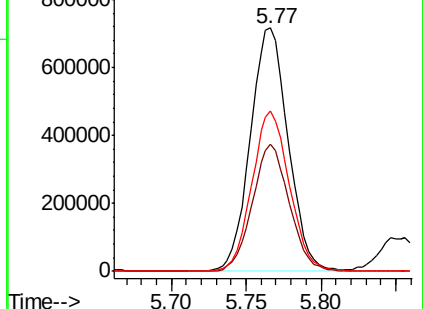
12/14/2018 11:18:53 AM



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



#2

Dichlorodifluoromethane

Concen: 10.364 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.01 min

Lab File: VL032986.D

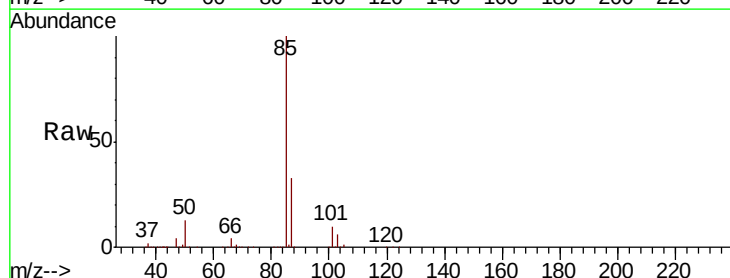
Acq: 13 Dec 2018 16:26

Tgt Ion: 85 Resp: 1740514

Ion Ratio Lower Upper

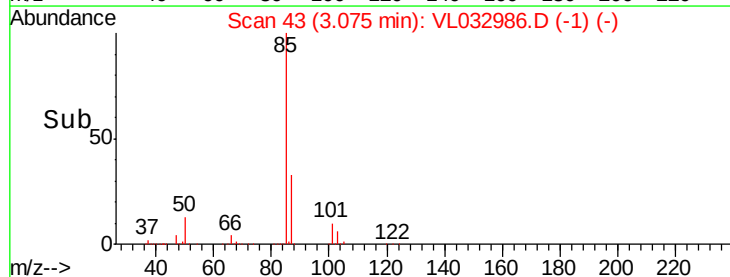
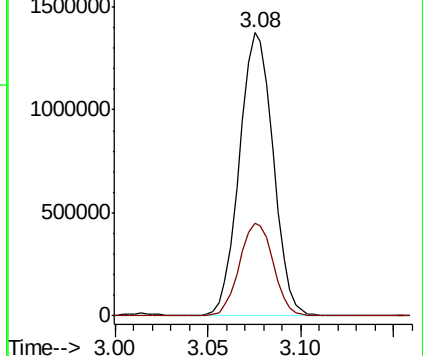
85 100

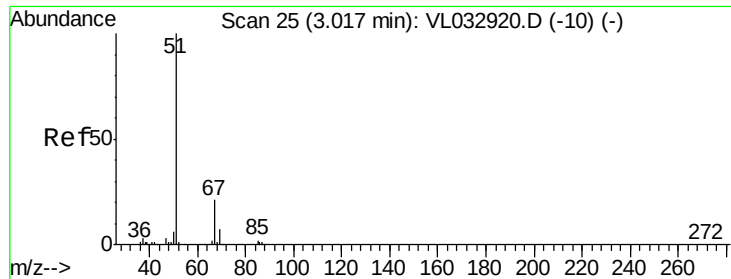
87 32.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.958 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 51 Resp: 948660

Ion Ratio Lower Upper

51 100

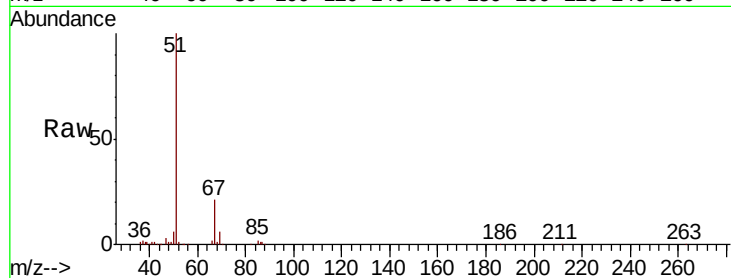
67 20.6 16.8 25.2

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

800000

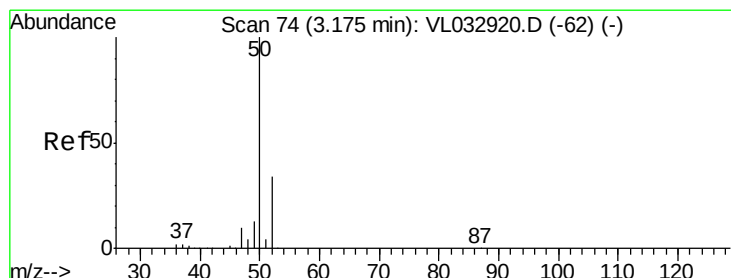
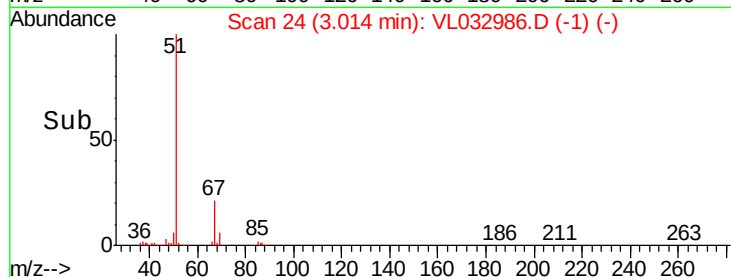
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.177 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL032986.D

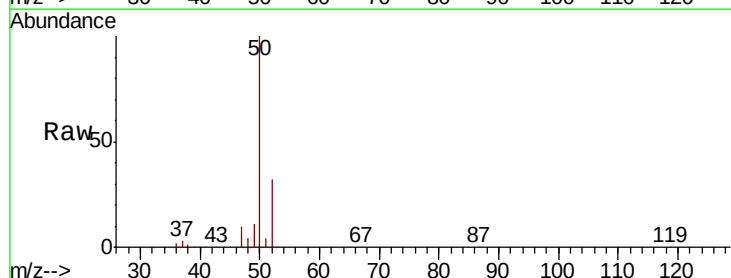
Acq: 13 Dec 2018 16:26

Tgt Ion: 50 Resp: 509028

Ion Ratio Lower Upper

50 100

52 32.5 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

400000

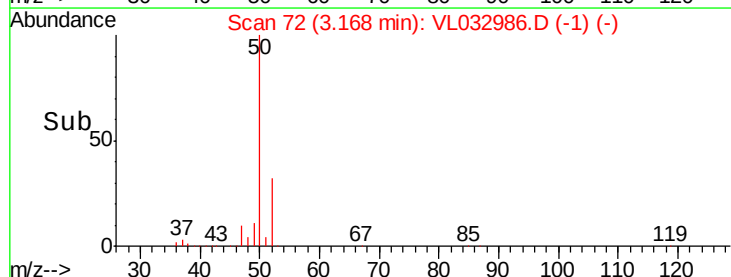
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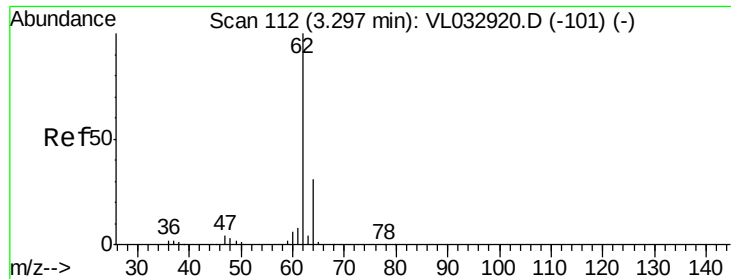
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 9.390 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 62 Resp: 529905

Ion Ratio Lower Upper

62 100

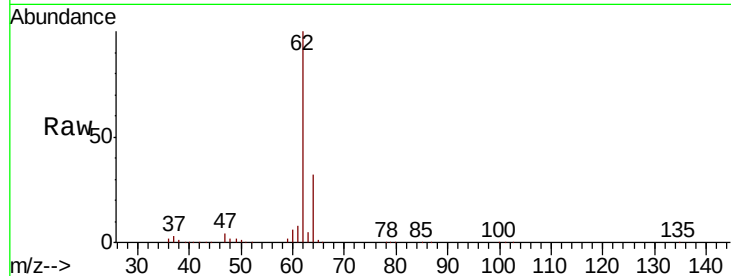
64 32.0 24.8 37.2

Manual Integrations

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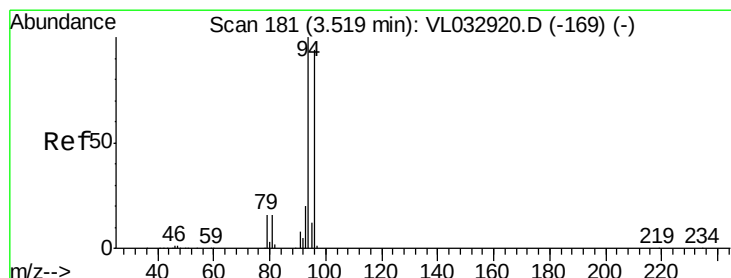
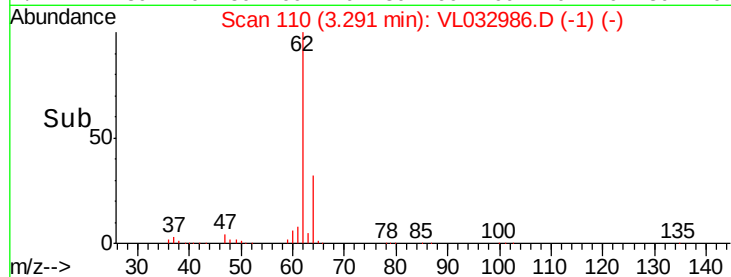
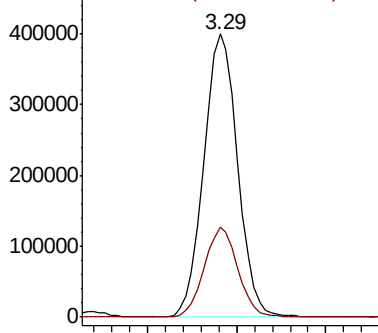
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.221 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.01 min

Lab File: VL032986.D

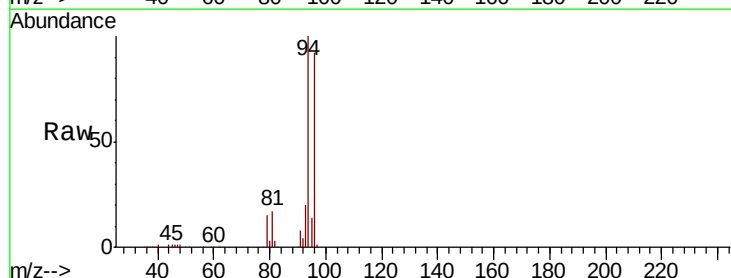
Acq: 13 Dec 2018 16:26

Tgt Ion: 94 Resp: 360784

Ion Ratio Lower Upper

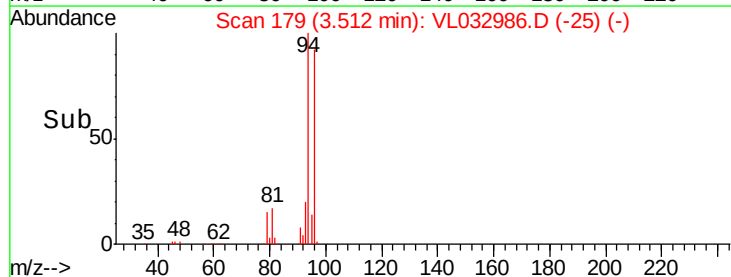
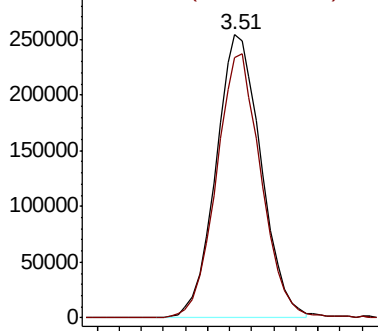
94 100

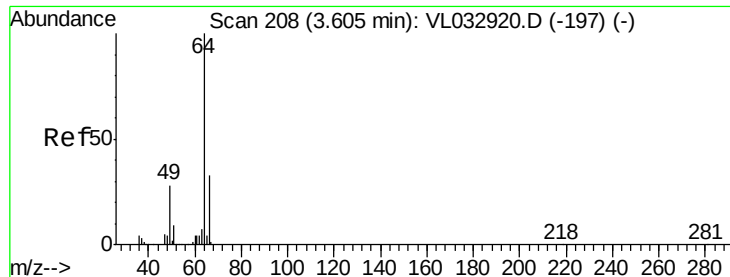
96 92.0 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.107 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 64 Resp: 204434

Ion Ratio Lower Upper

64 100

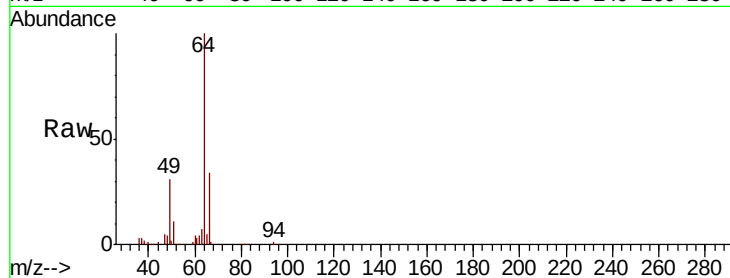
66 33.9 26.6 40.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

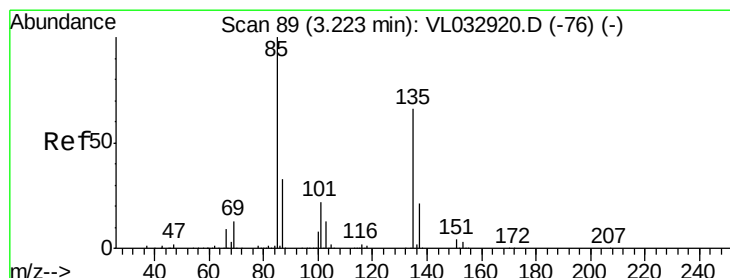
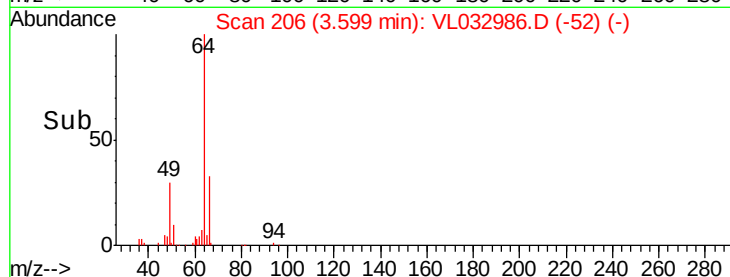
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.732 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL032986.D

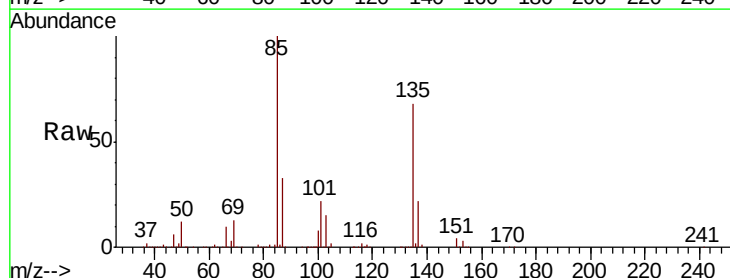
Acq: 13 Dec 2018 16:26

Tgt Ion: 85 Resp: 1358141

Ion Ratio Lower Upper

85 100

135 67.6 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1200000

1000000

800000

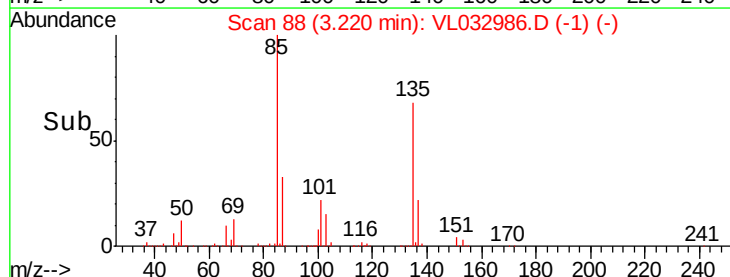
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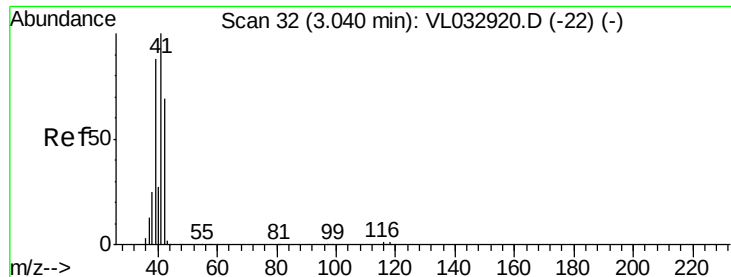
400000

200000

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Time-->





#9

Propene

Concen: 10.009 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 41 Resp: 377054

Ion Ratio Lower Upper

41 100

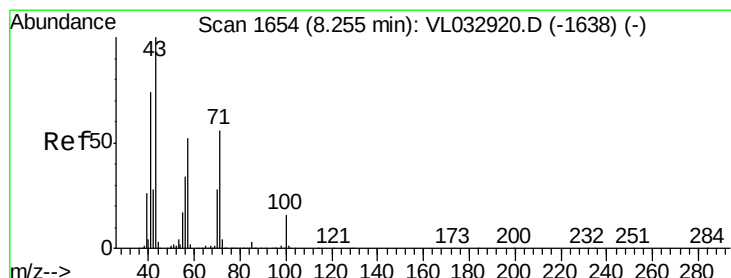
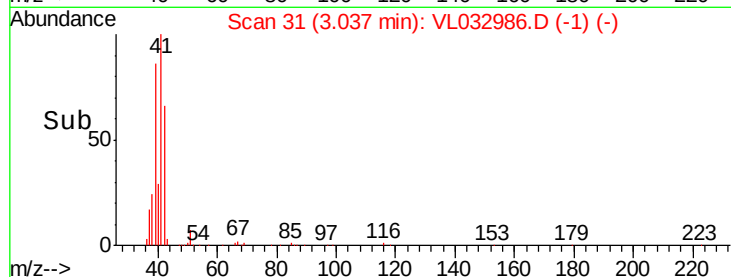
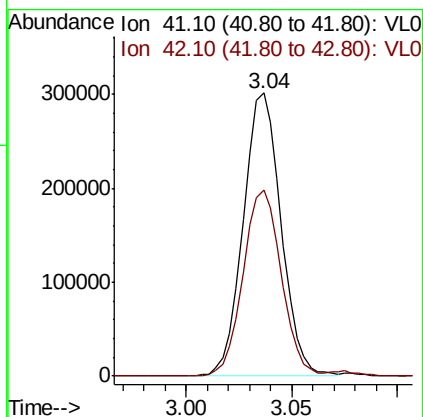
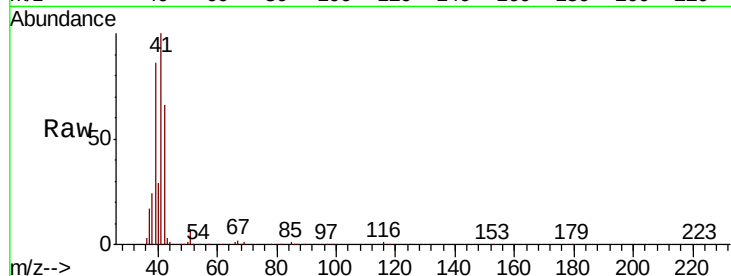
42 68.0 56.2 84.2

Manual Integrations

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#10

Heptane

Concen: 9.465 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL032986.D

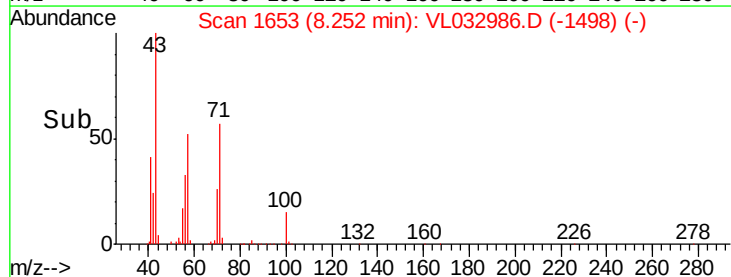
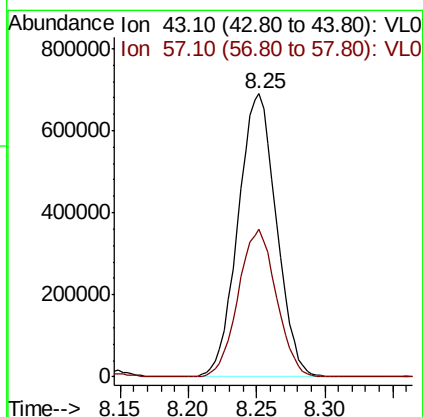
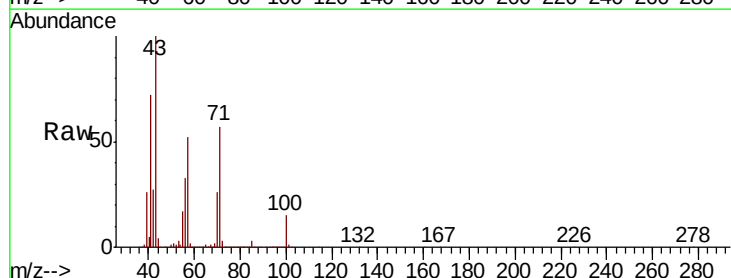
Acq: 13 Dec 2018 16:26

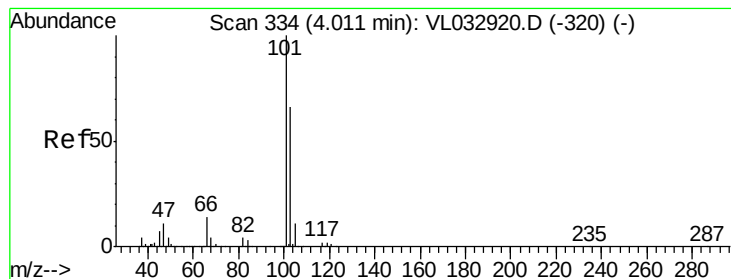
Tgt Ion: 43 Resp: 1339375

Ion Ratio Lower Upper

43 100

57 52.1 41.8 62.6





#11

Trichlorofluoromethane

Concen: 9.918 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion:101 Resp: 1569247

Ion Ratio Lower Upper

101 100

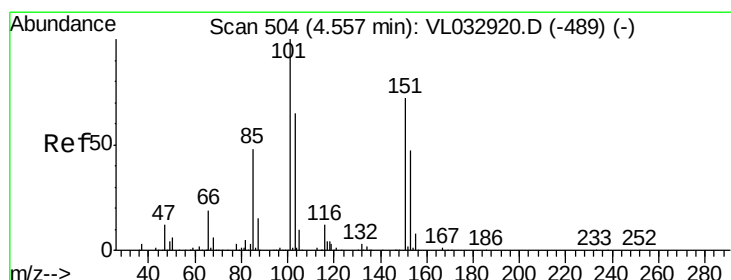
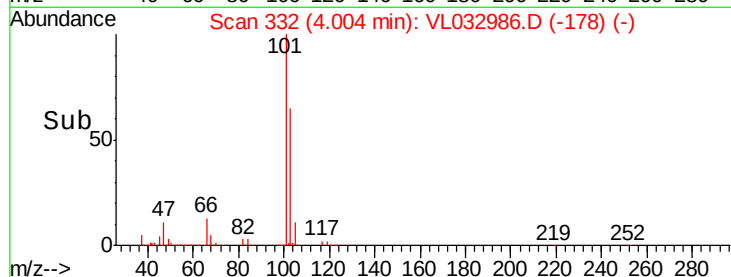
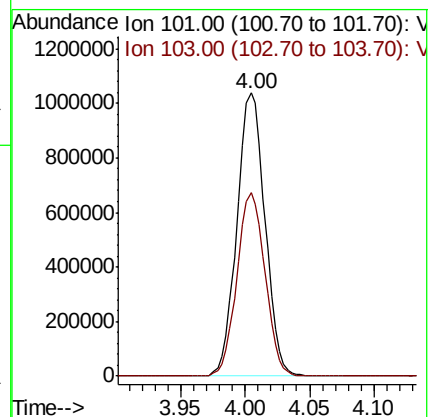
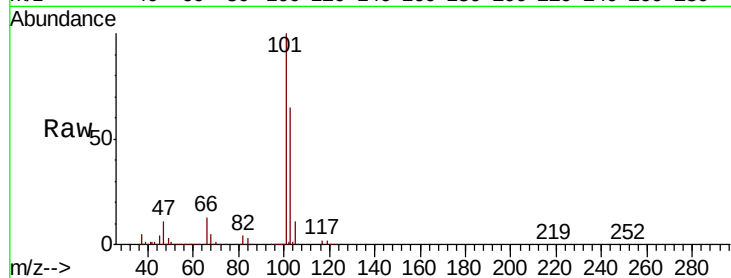
103 65.1 52.7 79.1

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 11.345 ppbv

RT: 4.55 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL032986.D

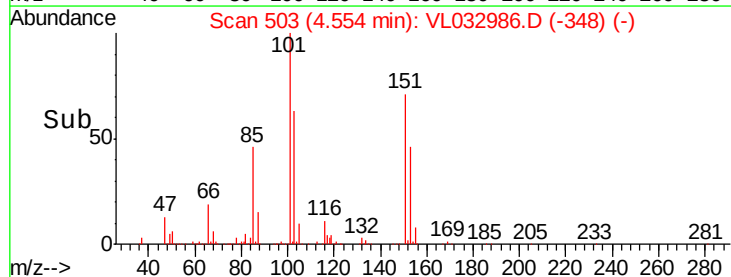
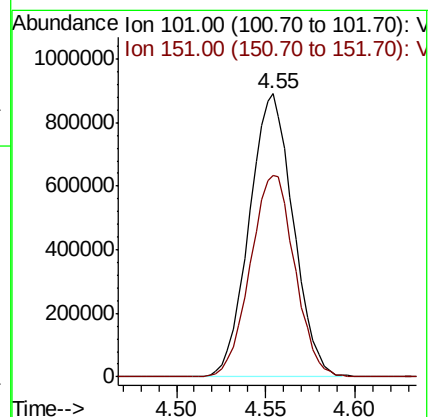
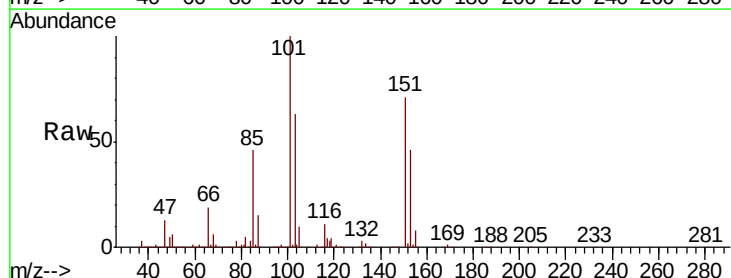
Acq: 13 Dec 2018 16:26

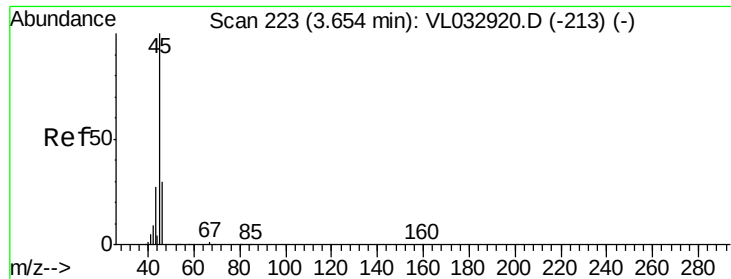
Tgt Ion:101 Resp: 1531452

Ion Ratio Lower Upper

101 100

151 72.3 59.3 88.9





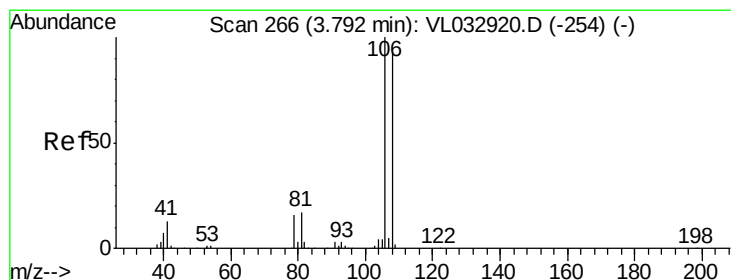
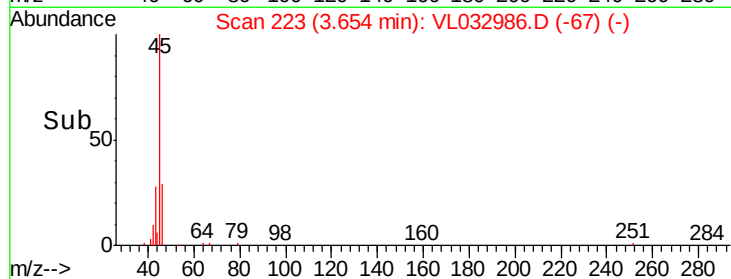
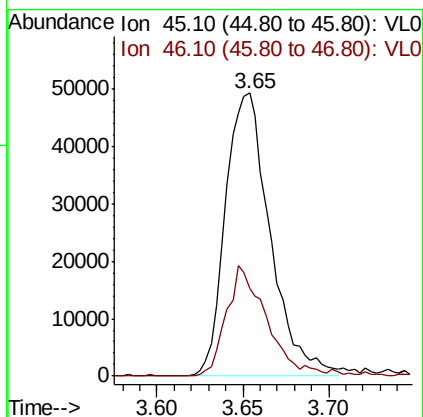
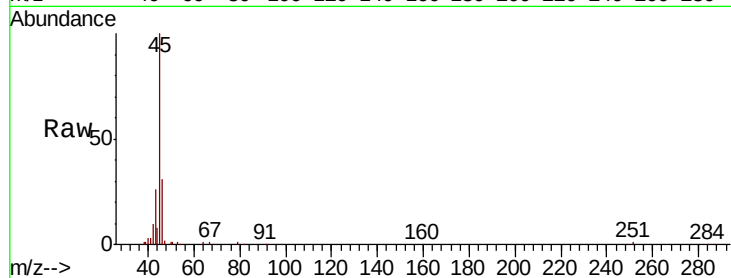
#13
Ethanol
Concen: 6.871 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	45	Resp	89125
Ion Ratio	100	Lower	Upper
46	36.8	13.8	55.4

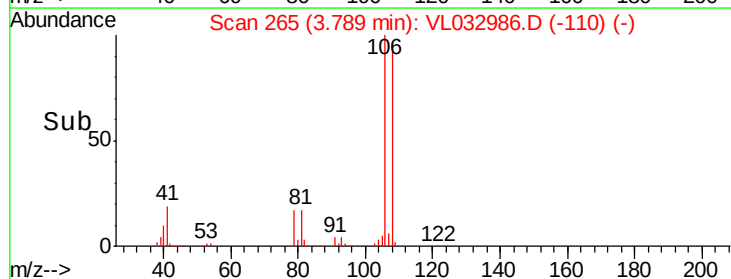
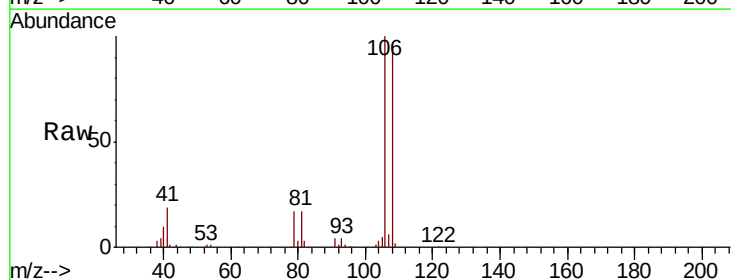
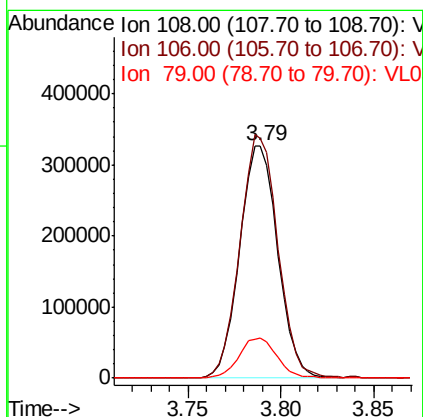
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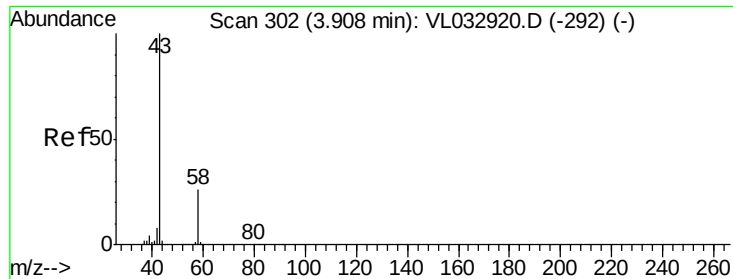
MMDadoda
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#14
Bromoethene
Concen: 10.454 ppbv
RT: 3.79 min Scan# 265
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	108	Resp	468532
Ion Ratio	100	Lower	Upper
106	105.1	85.4	128.2
79	17.6	14.6	21.8





#15

Acetone

Concen: 8.980 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 43 Resp: 969586

Ion Ratio Lower Upper

43 100

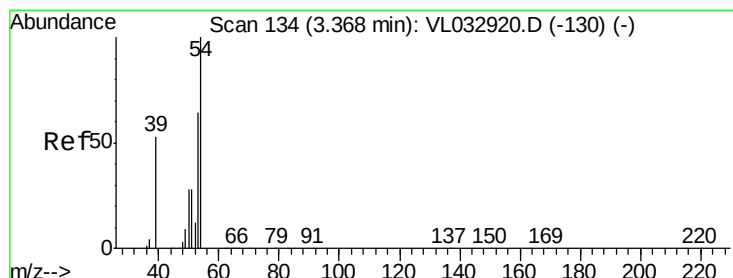
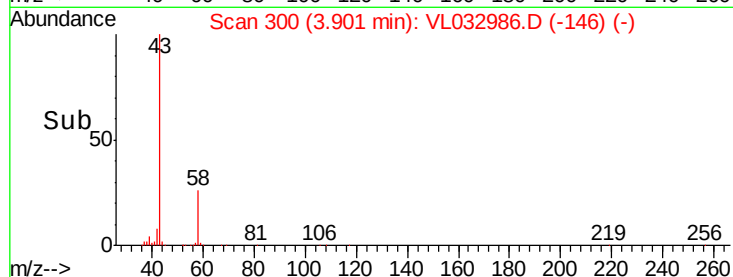
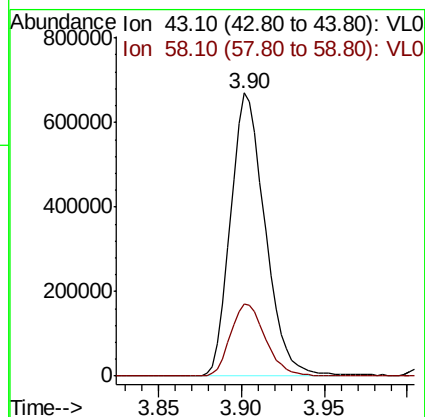
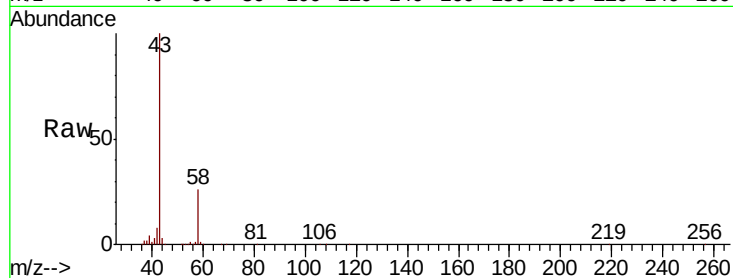
58 25.8 20.6 30.8

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#16

1,3-Butadiene

Concen: 11.416 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.01 min

Lab File: VL032986.D

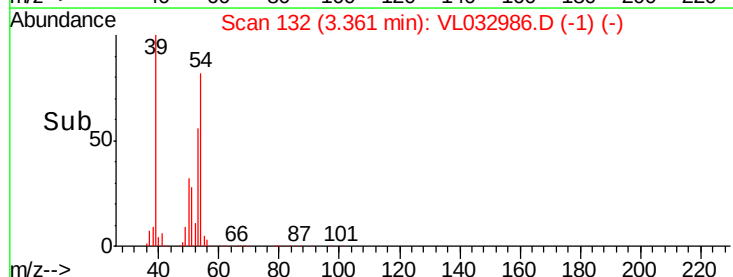
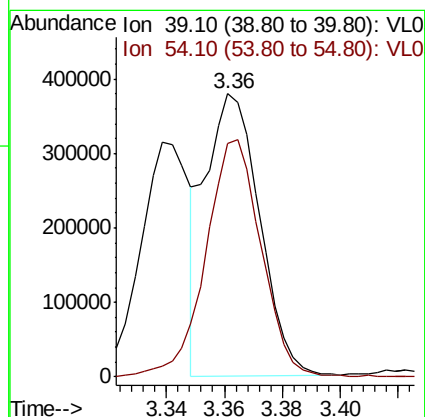
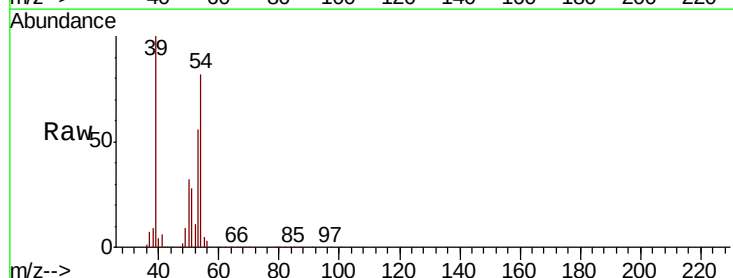
Acq: 13 Dec 2018 16:26

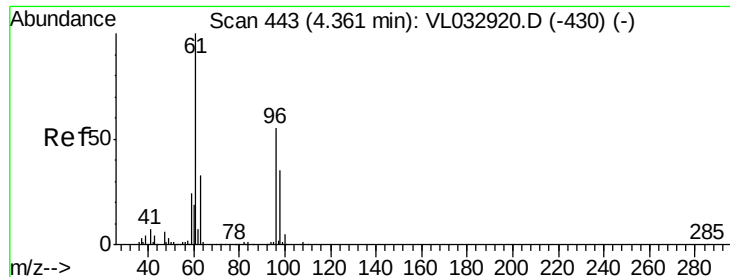
Tgt Ion: 39 Resp: 489024

Ion Ratio Lower Upper

39 100

54 86.9 72.7 109.1





#17

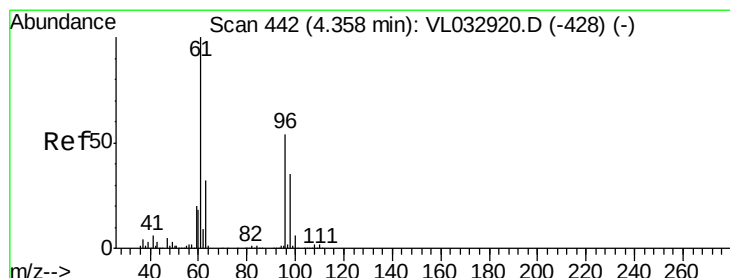
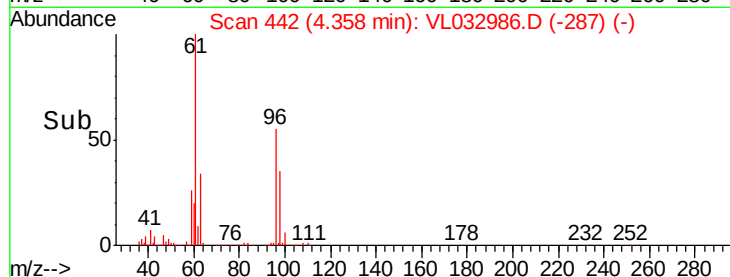
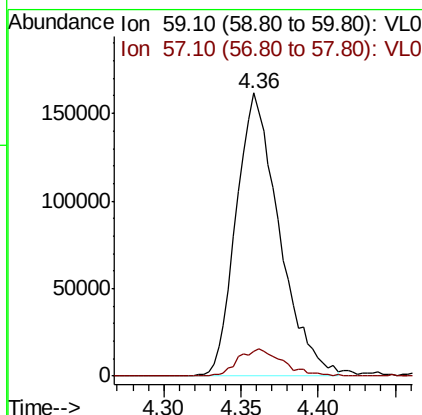
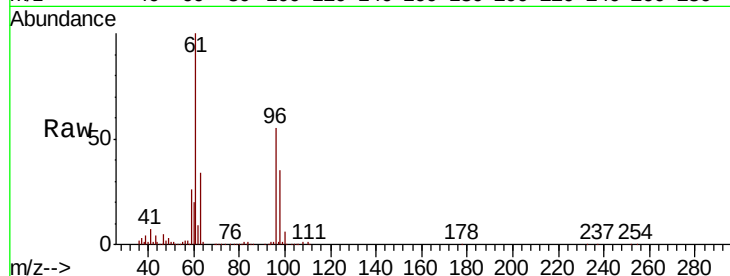
tert-Butyl alcohol
Concen: 11.366 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	0.6	1.0#

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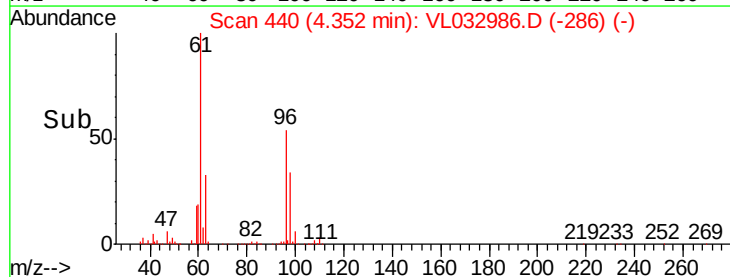
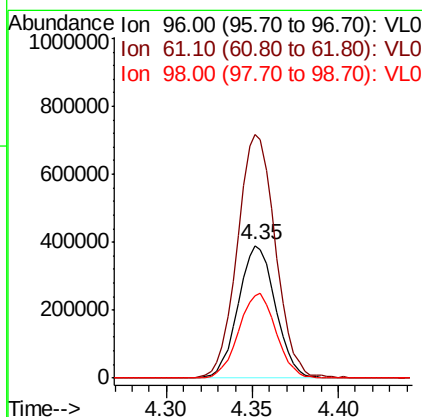
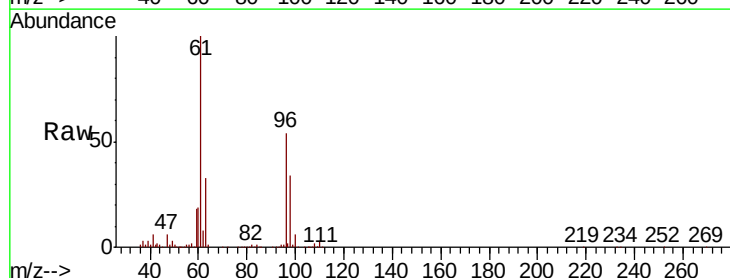
MMDadoda
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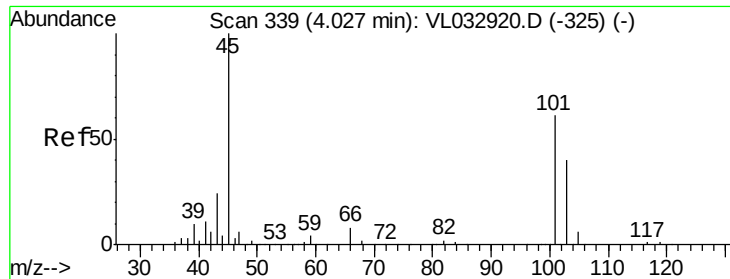


#18

1,1-Dichloroethene
Concen: 11.120 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	183.8	147.0	220.4
98	61.8	50.7	76.1





#19

Isopropyl Alcohol

Concen: 9.843 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 45 Resp: 667437

Ion Ratio Lower Upper

45 100

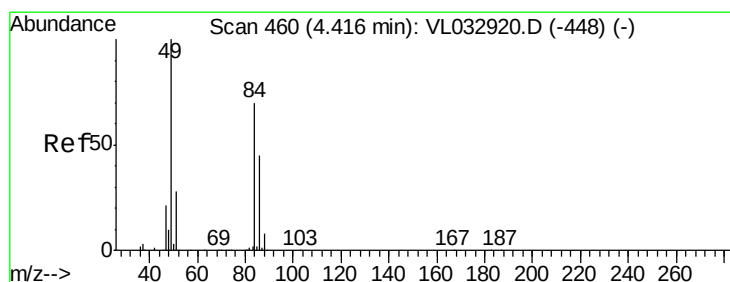
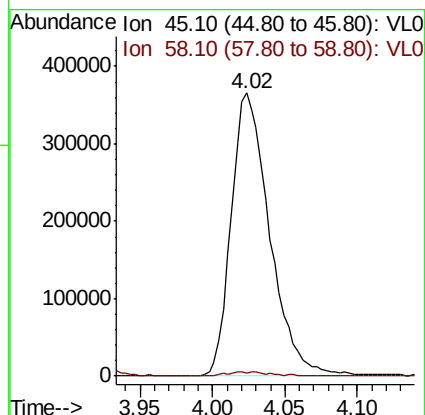
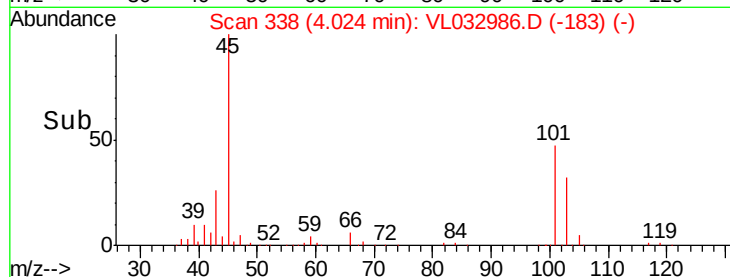
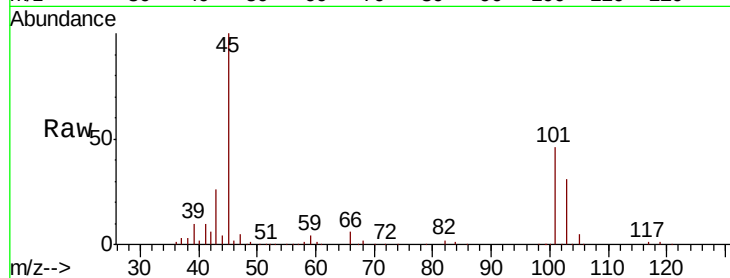
58 2.1 1.4 2.2

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#20

Methylene Chloride

Concen: 10.828 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tgt Ion: 84 Resp: 571435

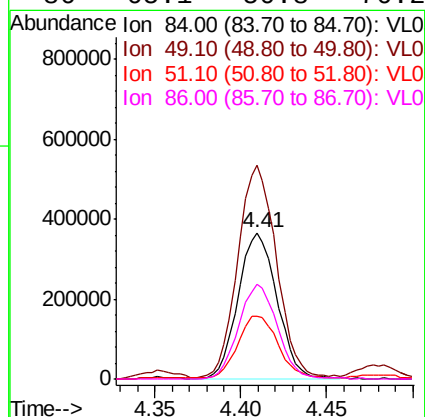
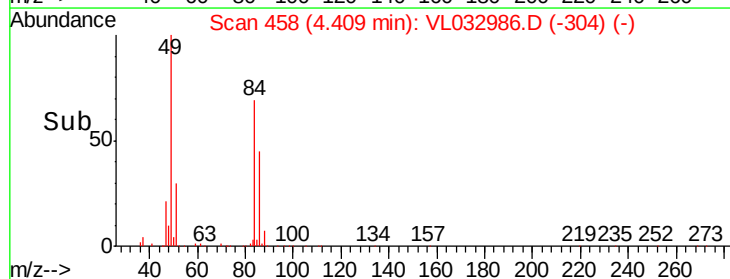
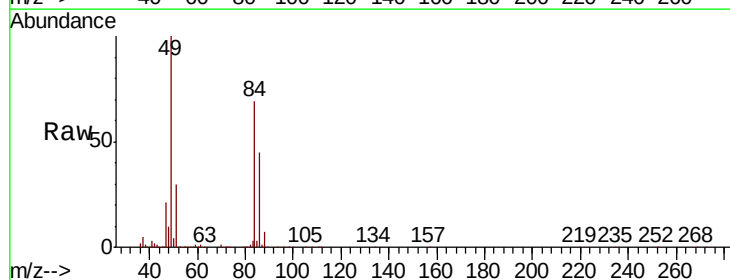
Ion Ratio Lower Upper

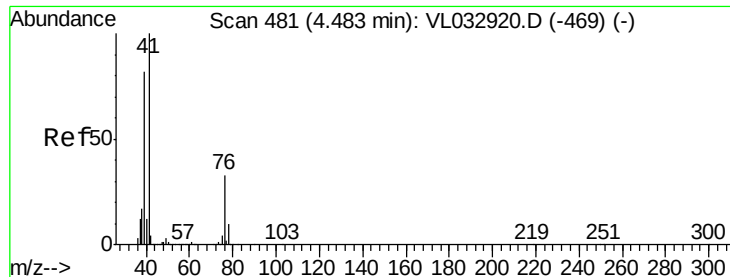
84 100

49 145.0 113.8 170.8

51 42.8 31.8 47.8

86 65.1 50.8 76.2





#21

Allvl Chloride

Concen: 12.485 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

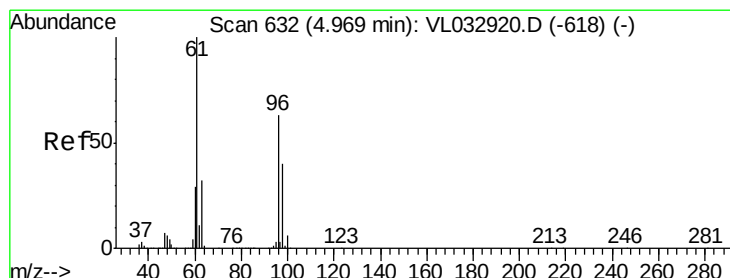
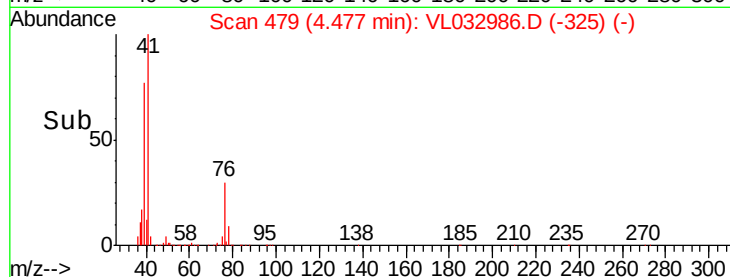
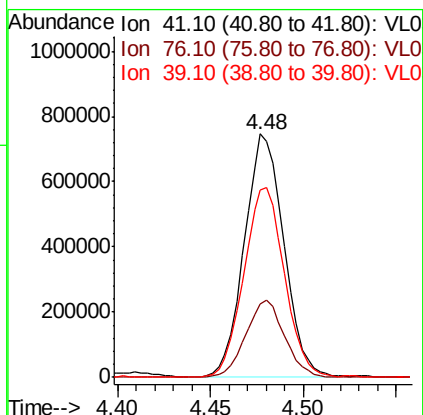
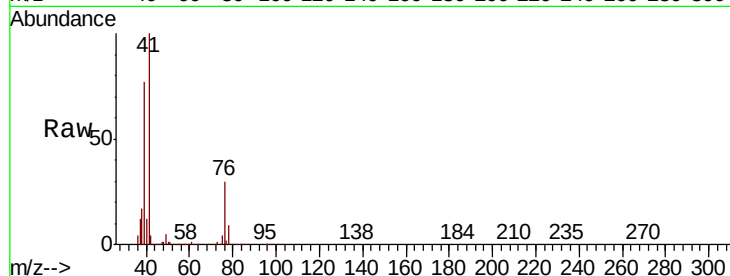
ClientSampleId :

VL1213ABS01

Tot Ion:	41	Resp:	1098620
Ion	Ratio	Lower	Upper
41	100		
76	31.3	25.2	37.8
39	81.0	65.2	97.8

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#22

trans-1,2-Dichloroethene

Concen: 9.540 ppbv

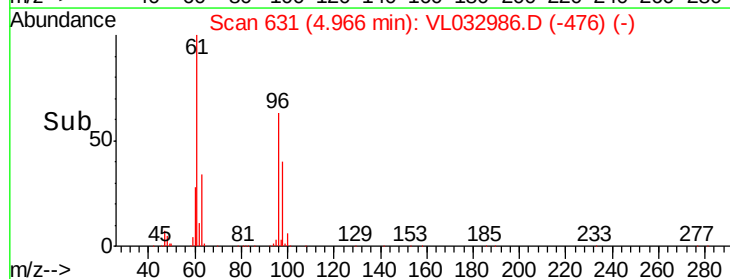
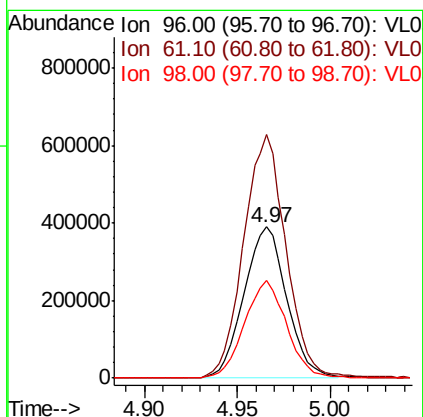
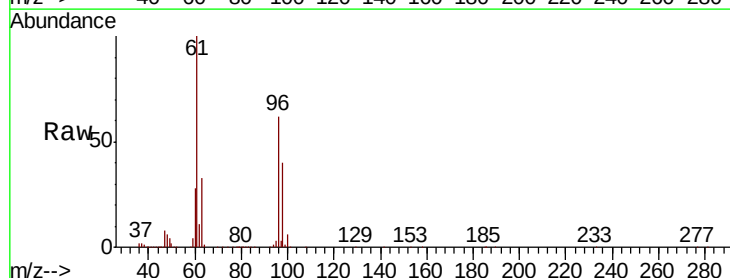
RT: 4.97 min Scan# 631

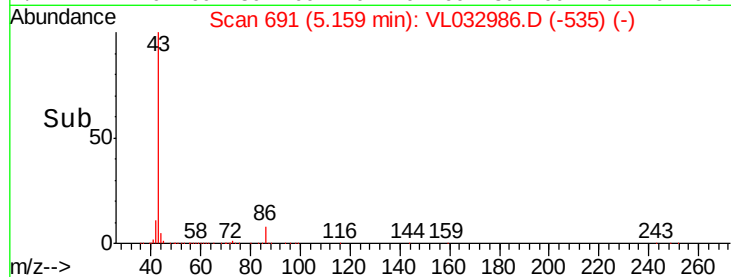
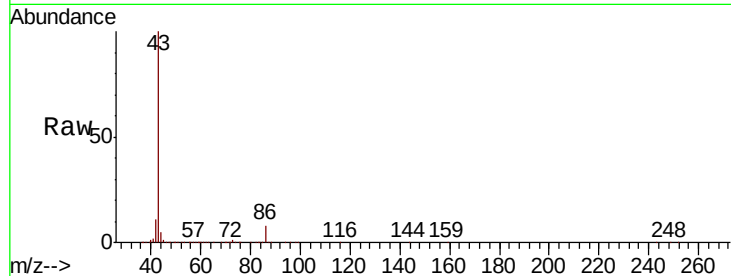
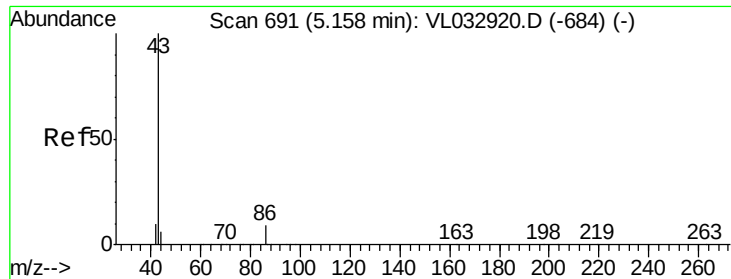
Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tgt Ion:	96	Resp:	625964
Ion	Ratio	Lower	Upper
96	100		
61	161.0	127.1	190.7
98	64.4	51.3	76.9





#23

Vinyl Acetate

Concen: 12.310 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tot Ion: 43 Resp: 2250418

Ion Ratio Lower Upper

43 100

86 8.4 6.6 9.8

42 10.6 8.3 12.5

44 5.2 4.2 6.4

Instrument :

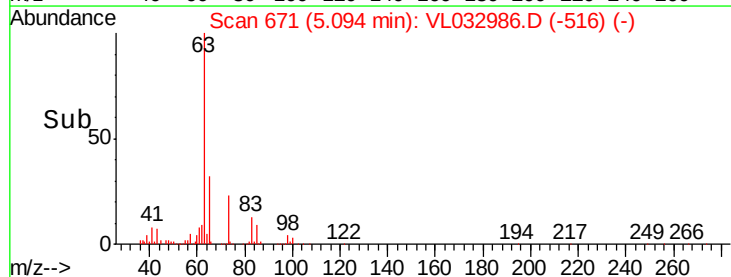
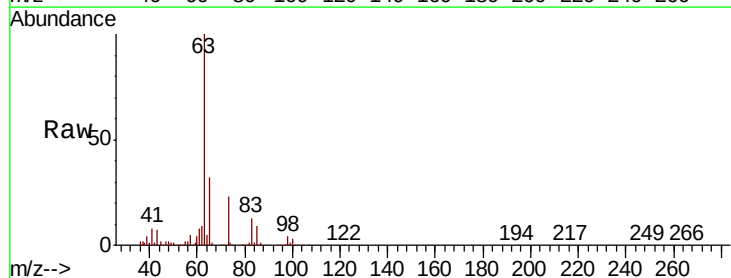
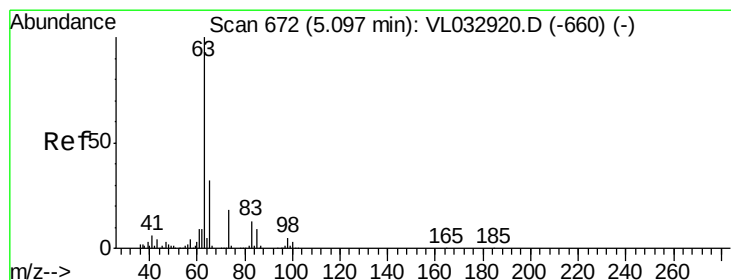
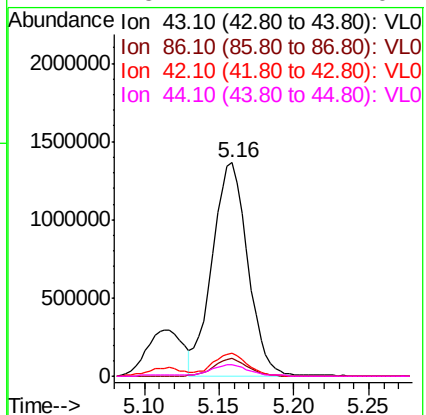
MSVOA_L

ClientSampleId :

VL1213ABS01

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#24

1,1-Dichloroethane

Concen: 10.738 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

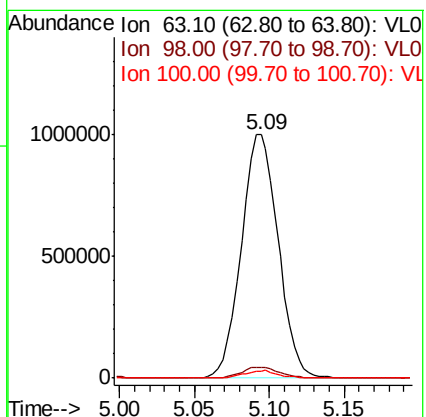
Tgt Ion: 63 Resp: 1707028

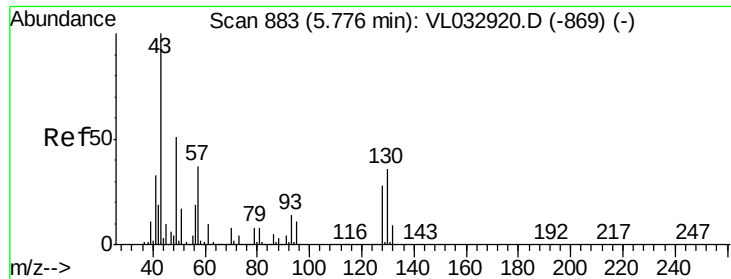
Ion Ratio Lower Upper

63 100

98 4.3 2.5 7.5

100 2.9 1.4 4.2





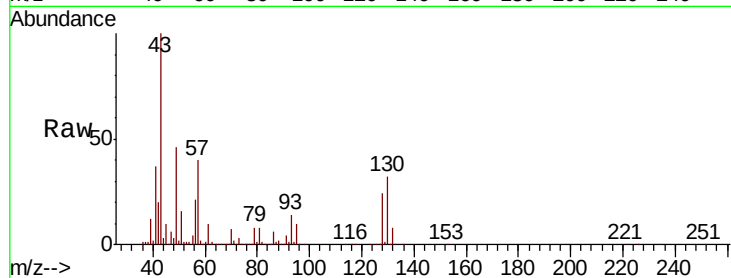
#25
Ethyl Acetate
Concen: 9.693 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.6
61	9.4	7.4	11.2
70	7.1	5.7	8.5

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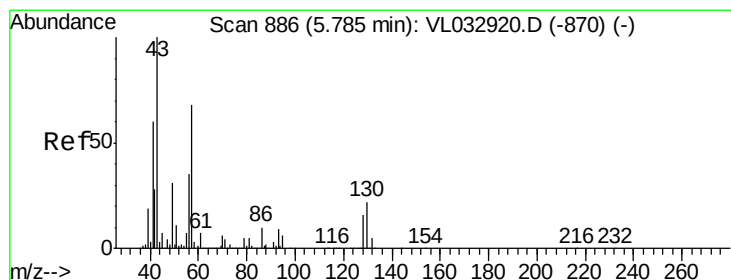
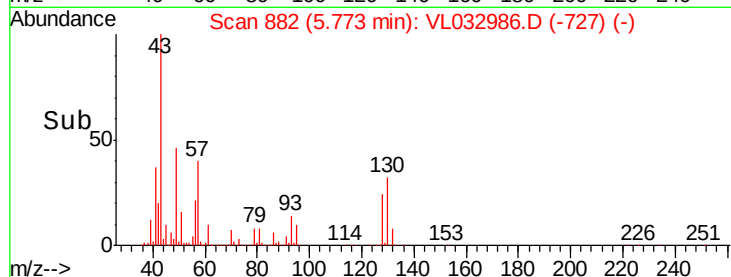
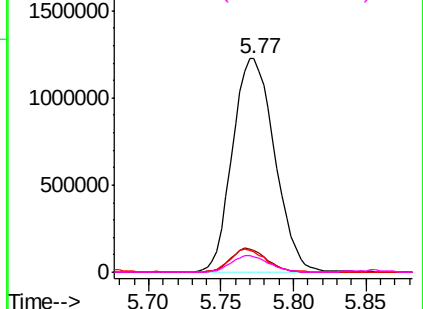
Abundance

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: 9.619 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.4	72.2	108.2
43	219.7	171.9	257.9
56	52.6	42.2	63.2

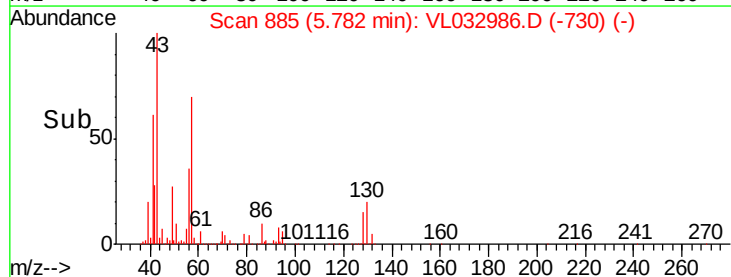
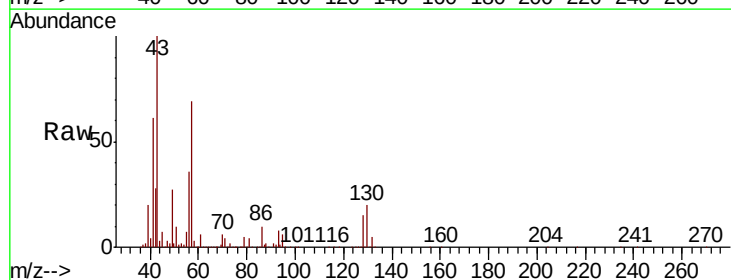
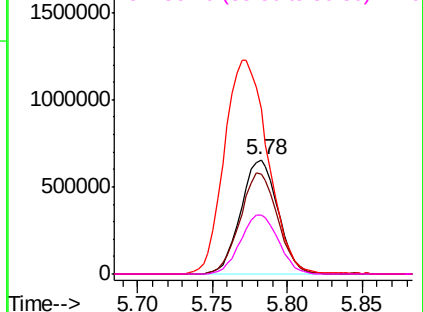
Abundance

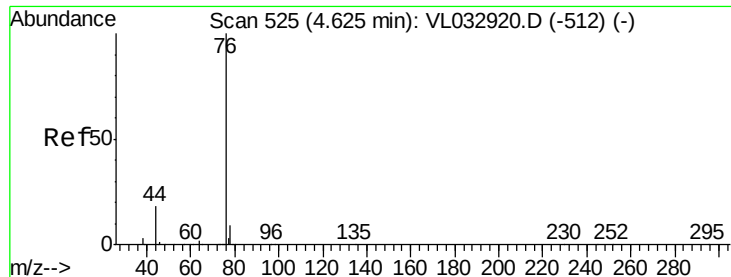
Ion 57.10 (56.80 to 57.80): VL0

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: 9.986 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 76 Resp: 1470340

Ion Ratio Lower Upper

76 100

44 18.8 14.7 22.1

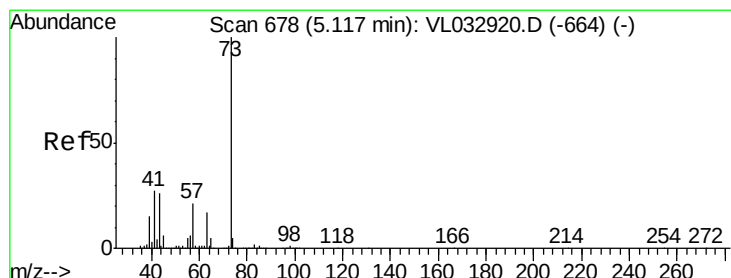
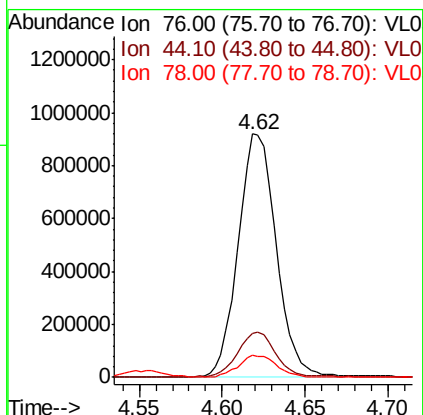
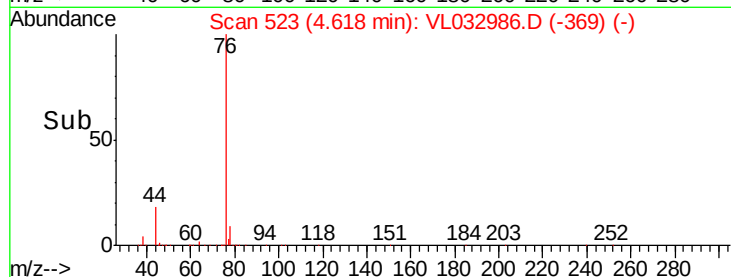
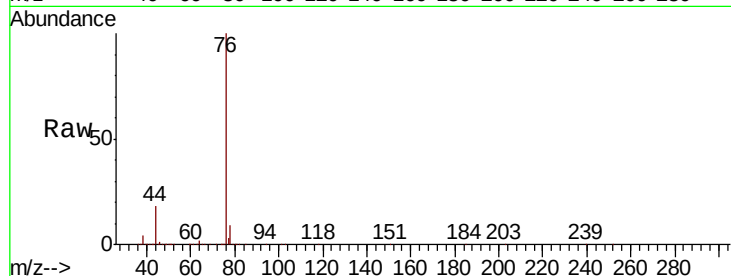
78 9.1 7.4 11.2

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#28

Methyl tert-Butyl Ether

Concen: 12.045 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL032986.D

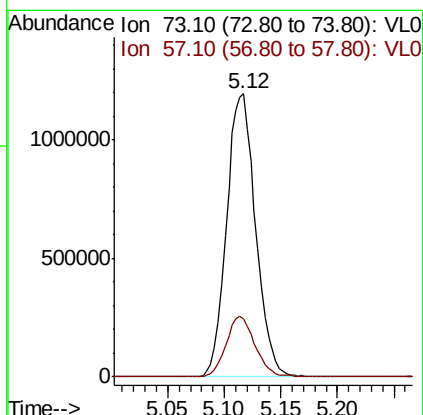
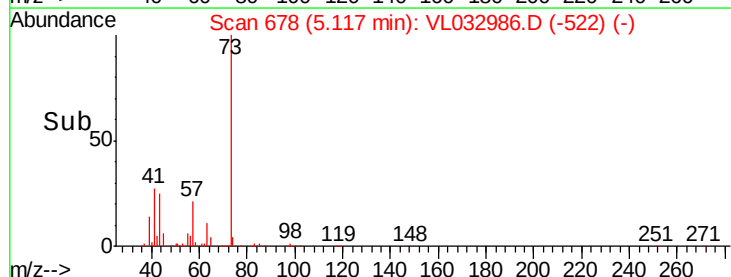
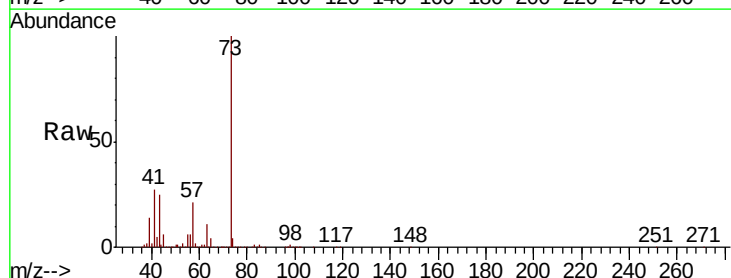
Acq: 13 Dec 2018 16:26

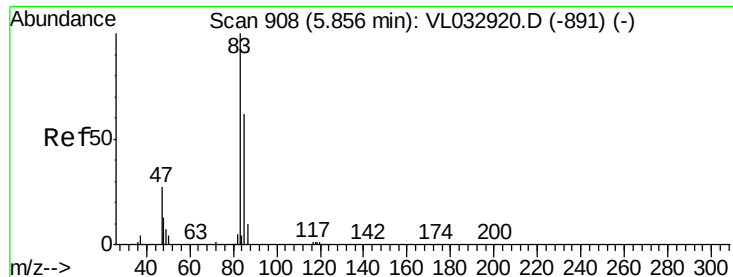
Tgt Ion: 73 Resp: 2130284

Ion Ratio Lower Upper

73 100

57 21.5 17.4 26.0





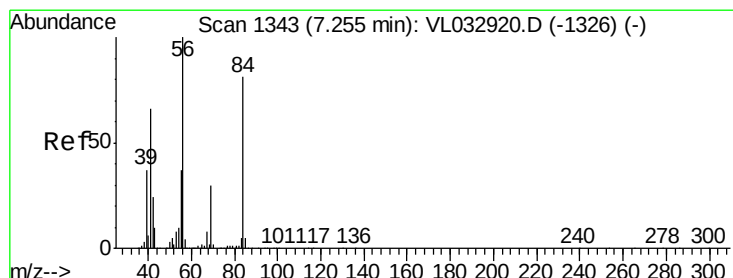
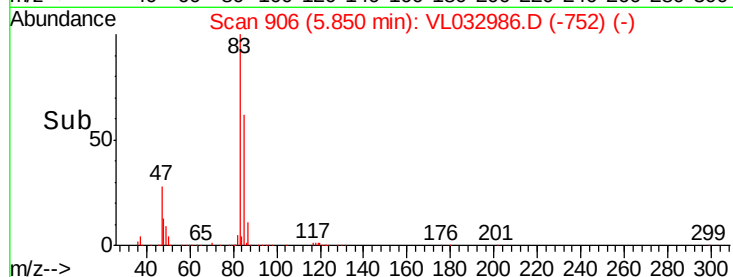
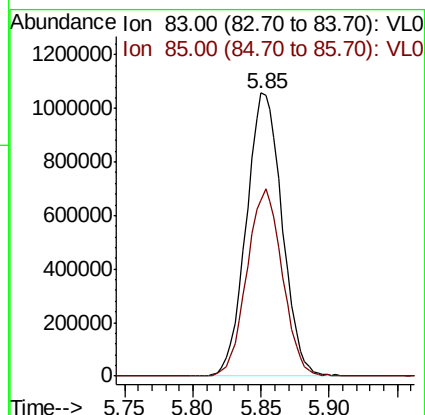
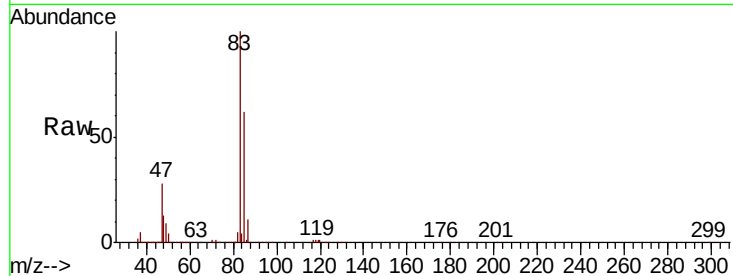
#29
Chloroform
Concen: 9.164 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion: 83 Resp: 1925518
Ion Ratio Lower Upper
83 100
85 62.1 49.8 74.8

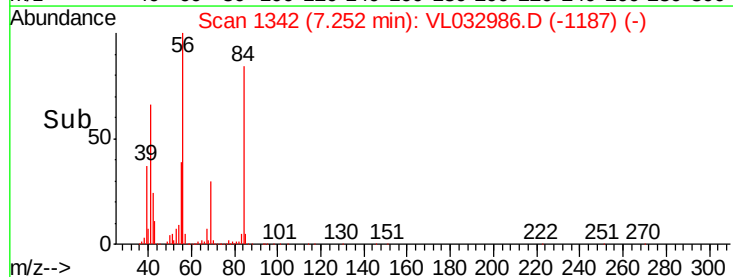
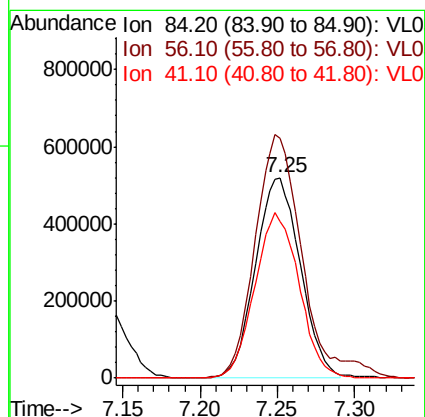
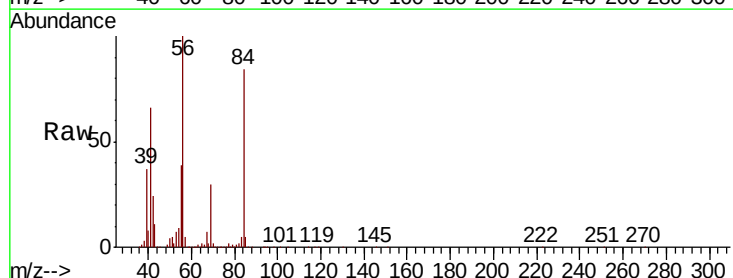
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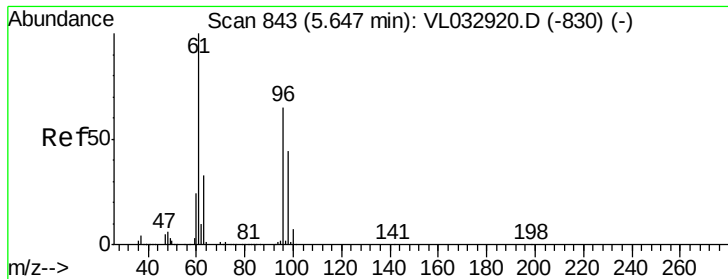
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#30
Cyclohexane
Concen: 10.719 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion: 84 Resp: 1046176
Ion Ratio Lower Upper
84 100
56 128.1 102.5 153.7
41 81.6 64.1 96.1





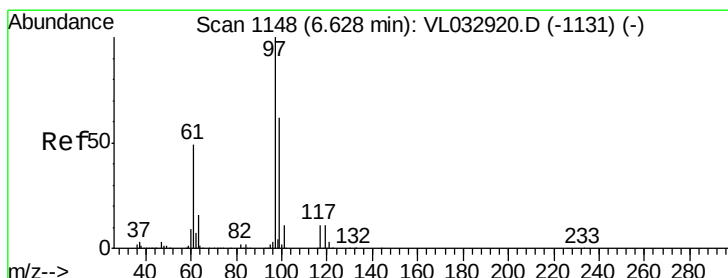
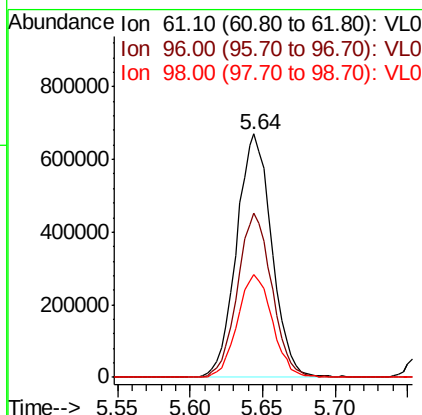
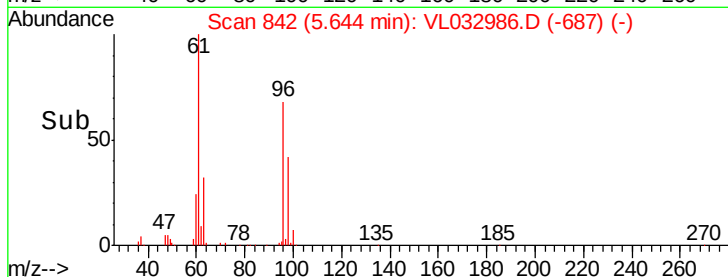
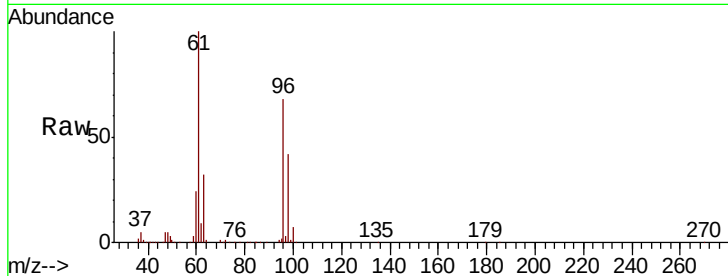
#31
 cis-1,2-Dichloroethene
 Concen: 10.477 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Tot Ion: 61 Resp: 1132199
 Ion Ratio Lower Upper
 61 100
 96 67.4 51.9 77.9
 98 42.3 35.0 52.4

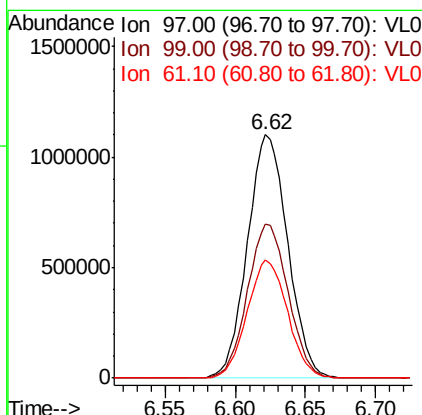
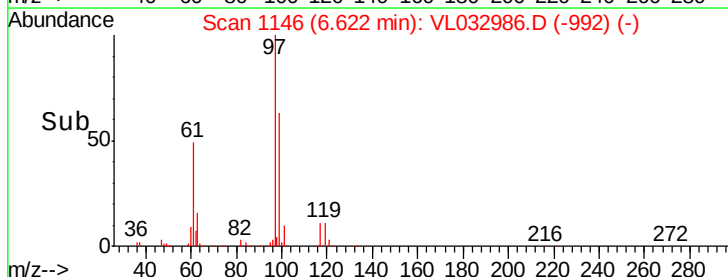
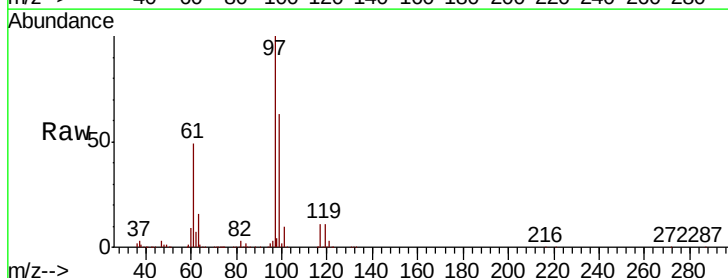
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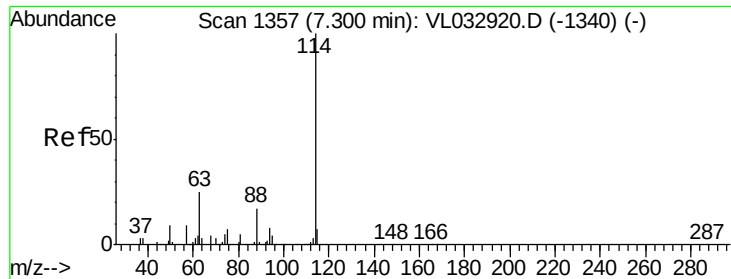
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#32
 1,1,1-Trichloroethane
 Concen: 9.925 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Tgt Ion: 97 Resp: 2206521
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.1 76.7
 61 48.7 39.3 58.9





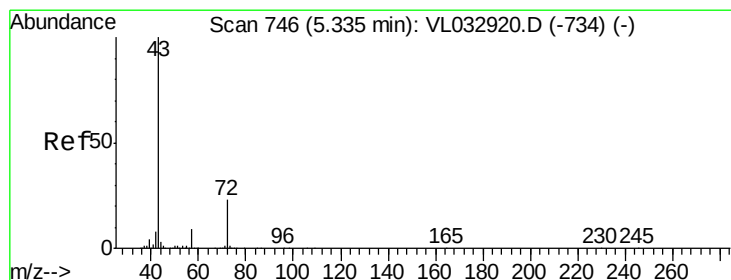
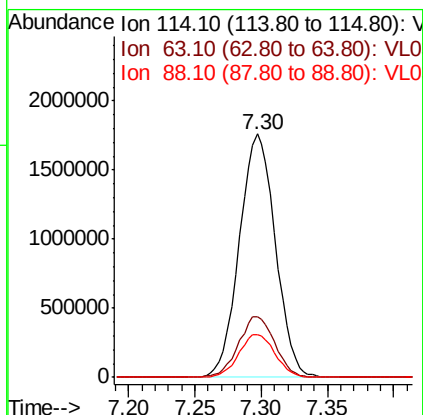
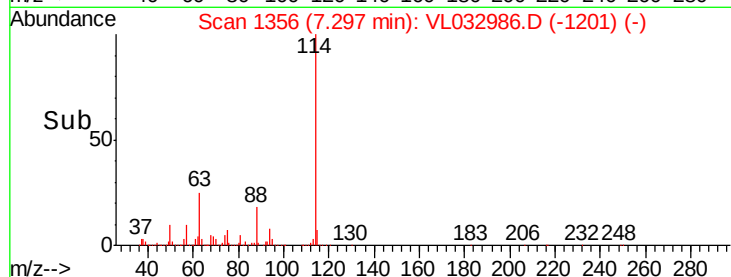
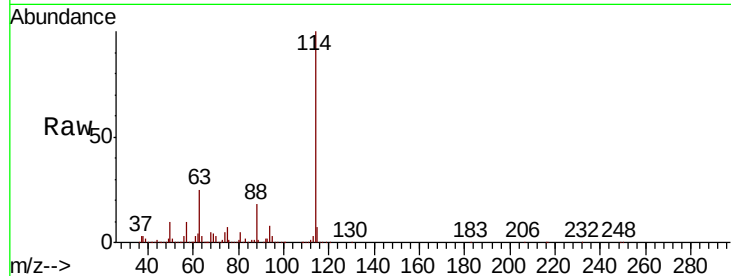
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Tot Ion:114 Resp: 3313645
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.1 30.1
 88 17.7 14.2 21.4

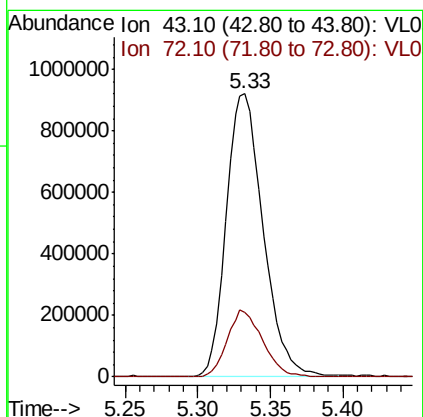
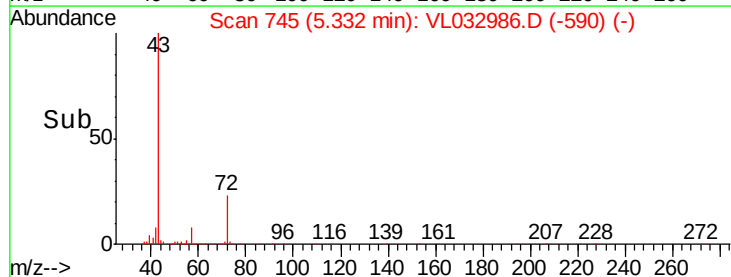
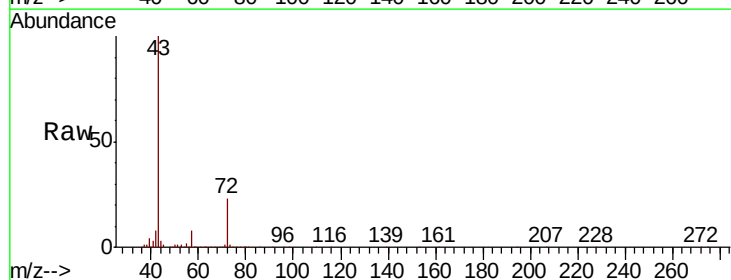
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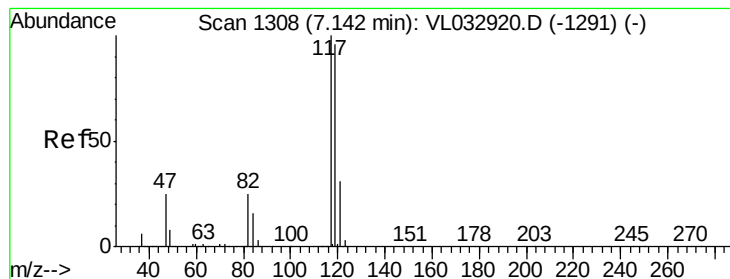
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#34
 2-Butanone
 Concen: 11.205 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Tgt Ion: 43 Resp: 1617228
 Ion Ratio Lower Upper
 43 100
 72 22.7 18.8 28.2





#35

Carbon Tetrachloride

Concen: 8.785 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

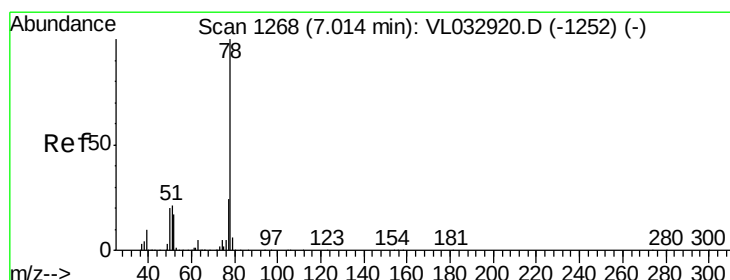
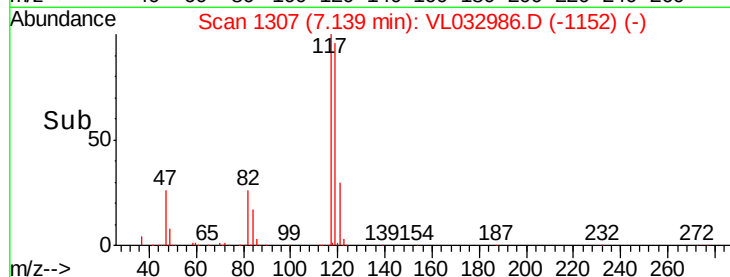
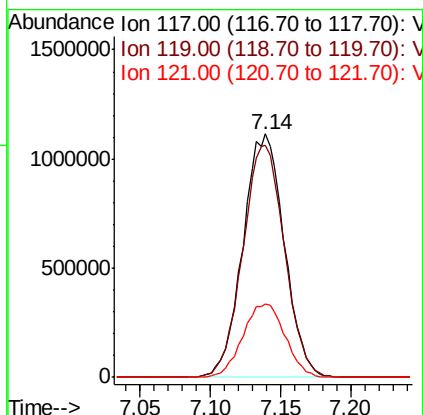
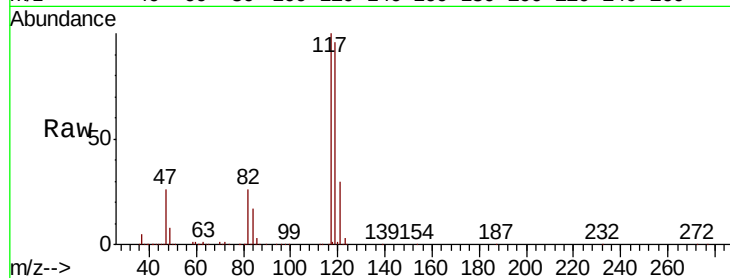
ClientSampleId :

VL1213ABS01

Tot Ion:	117	Resp:	2288201
Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.5	114.7
121	30.3	24.5	36.7

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#36

Benzene

Concen: 9.023 ppbv

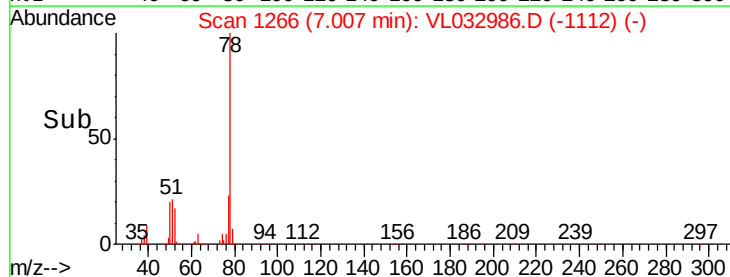
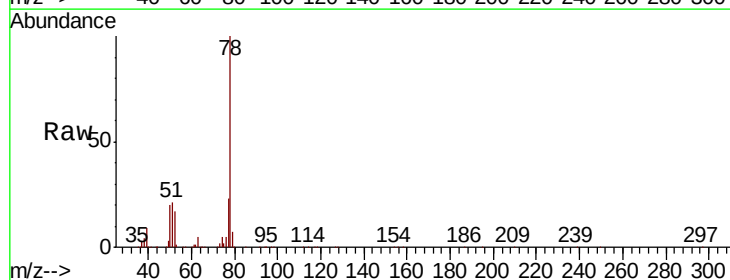
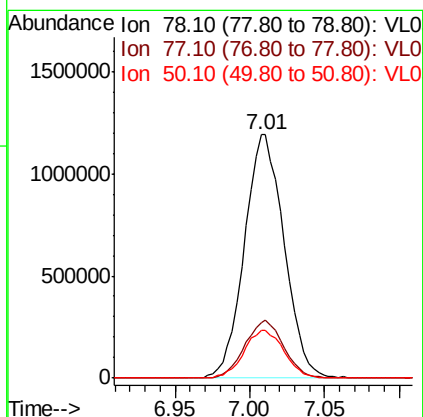
RT: 7.01 min Scan# 1266

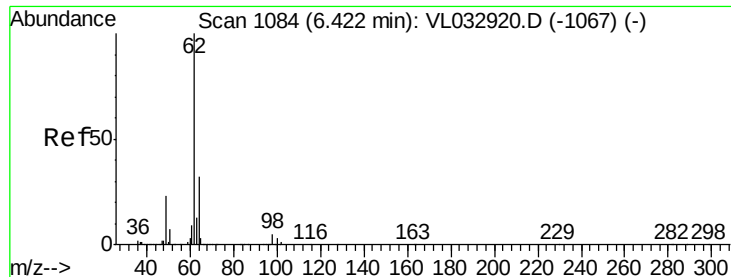
Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tgt Ion:	78	Resp:	2199066
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.9	28.3
50	19.7	16.1	24.1





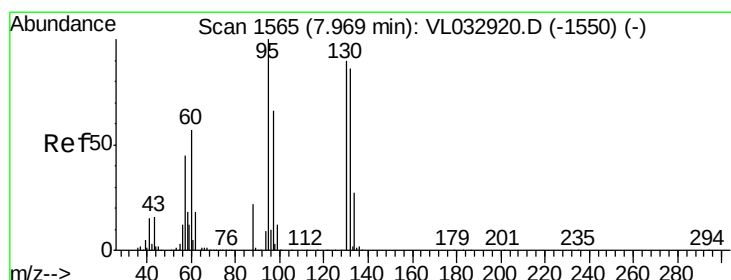
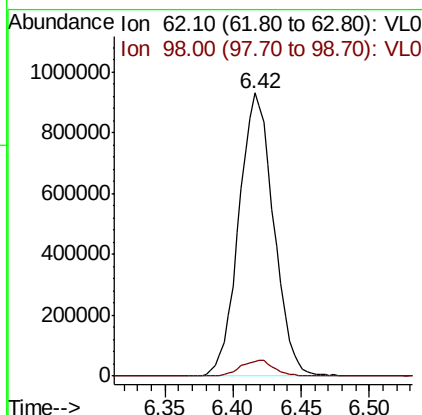
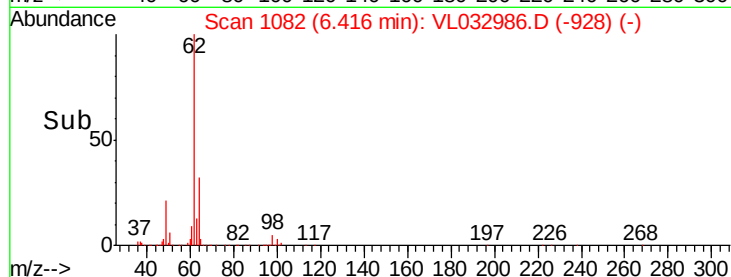
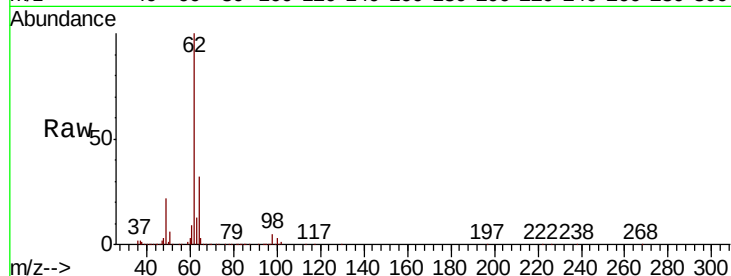
#37
 1,2-Dichloroethane
 Concen: 9.947 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.01 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.5	4.3	6.5

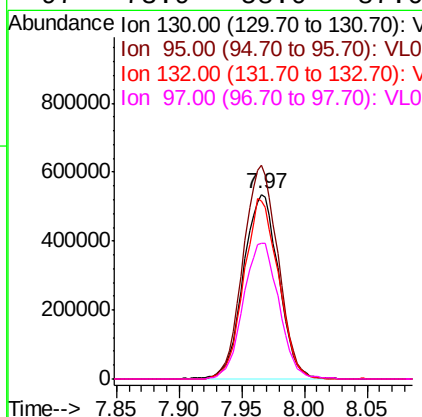
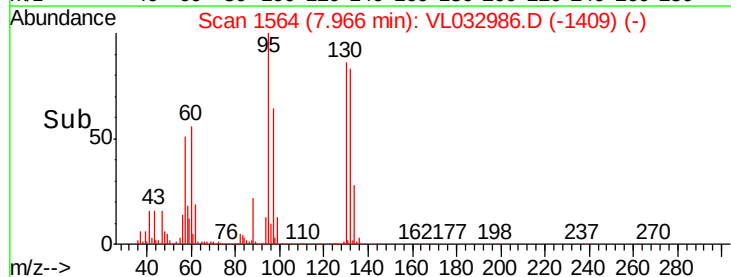
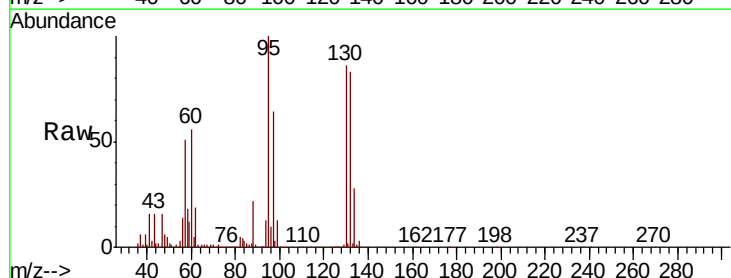
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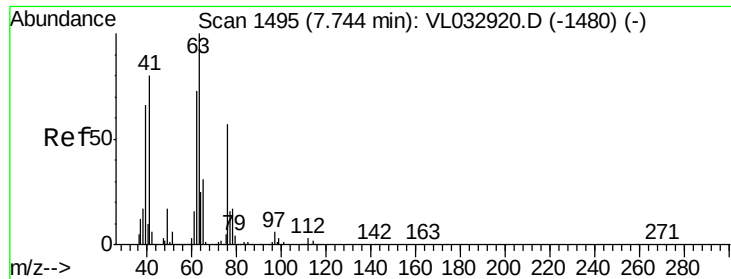
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#38
 Trichloroethene
 Concen: 10.304 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.8	88.6	132.8
132	96.5	76.1	114.1
97	73.9	58.0	87.0





#39

1,2-Dichloropropane

Concen: 8.894 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

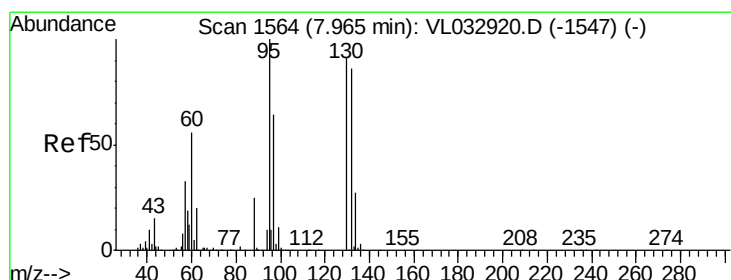
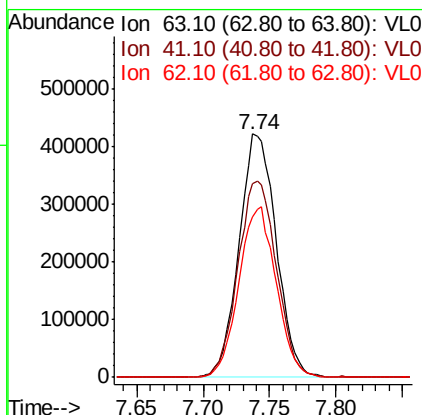
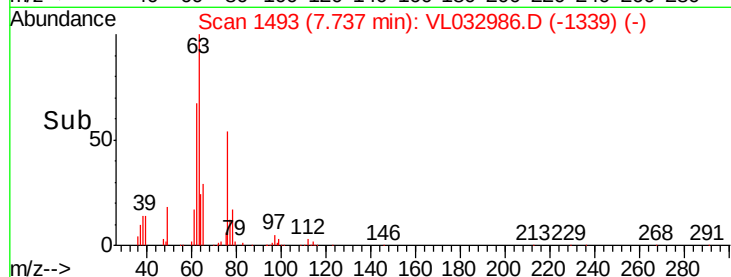
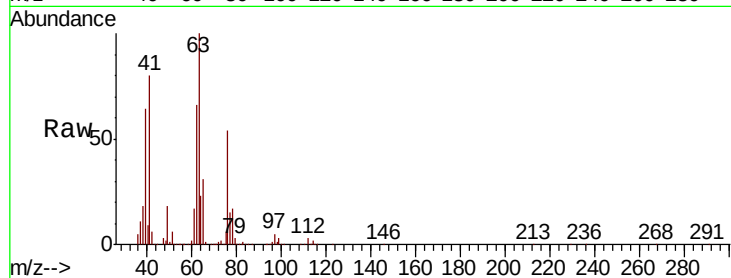
ClientSampleId :

VL1213ABS01

Tot Ion:	63	Resp:	822114
Ion Ratio	Lower	Upper	
63	100		
41	79.4	63.9	95.9
62	66.0	58.8	88.2

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#40

1,4-Dioxane

Concen: 9.521 ppbv

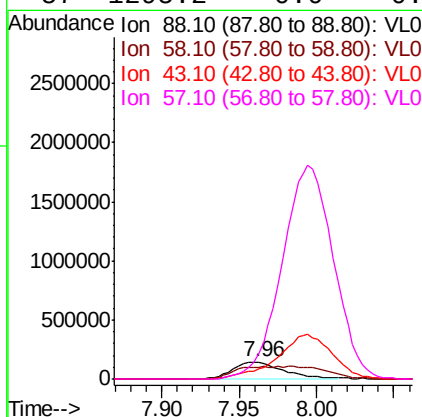
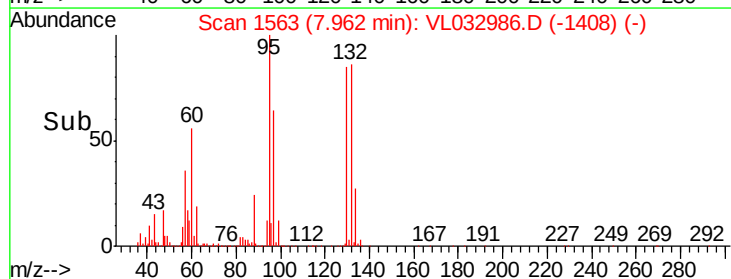
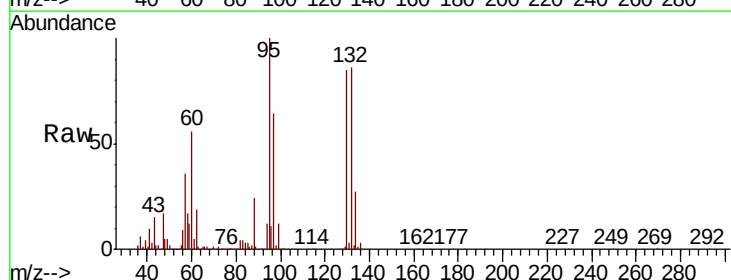
RT: 7.96 min Scan# 1563

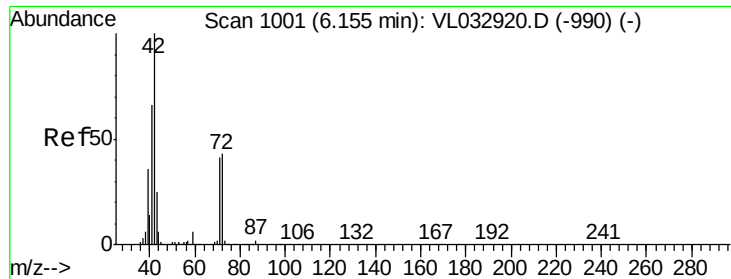
Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tgt Ion:	88	Resp:	324141
Ion Ratio	Lower	Upper	
88	100		
58	132.2	107.4	161.2
43	288.6	0.0	0.0#
57	1295.2	0.0	0.0#





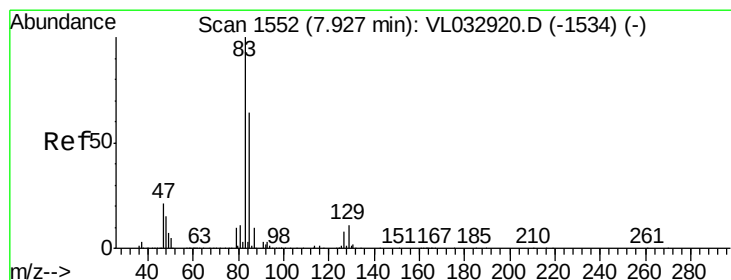
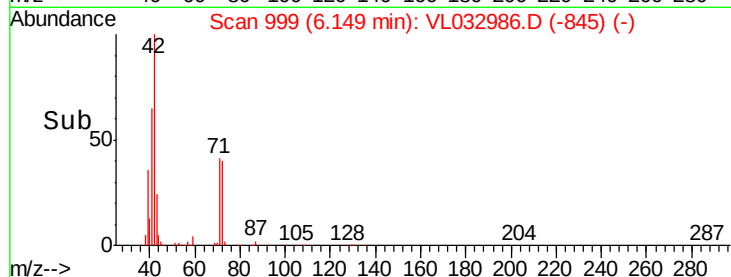
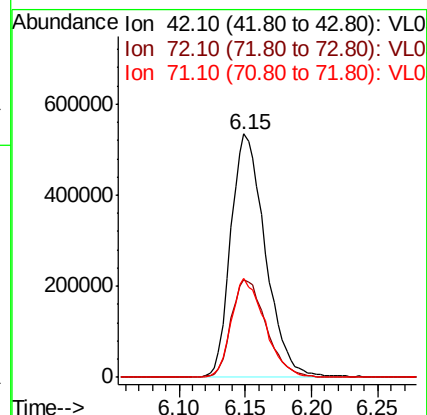
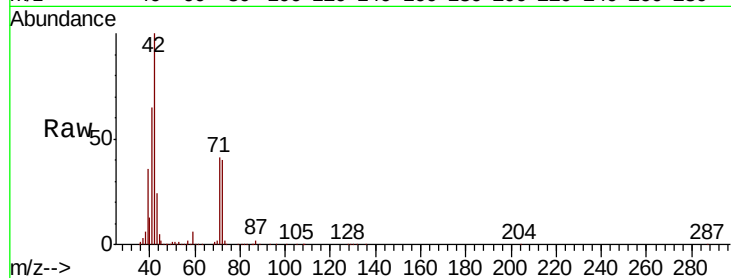
#41
Tetrahydrofuran
Concen: 10.761 ppbv
RT: 6.15 min Scan# 999
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.6	32.9	49.3
71	39.8	32.0	48.0

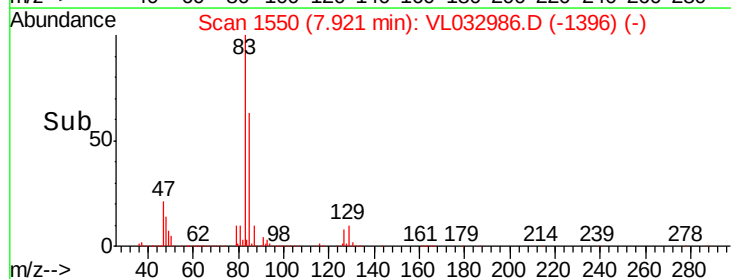
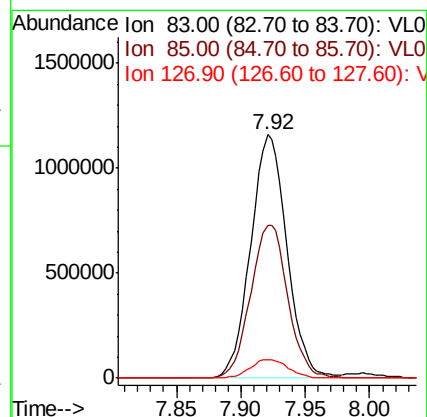
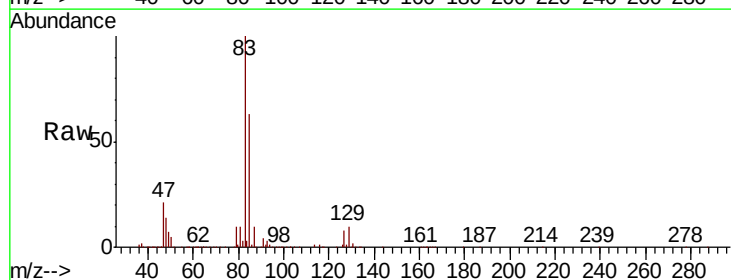
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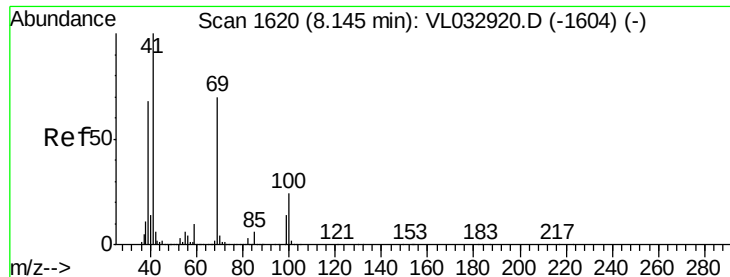
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#42
Bromodichloromethane
Concen: 9.919 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.9	76.3
127	7.6	6.7	10.1





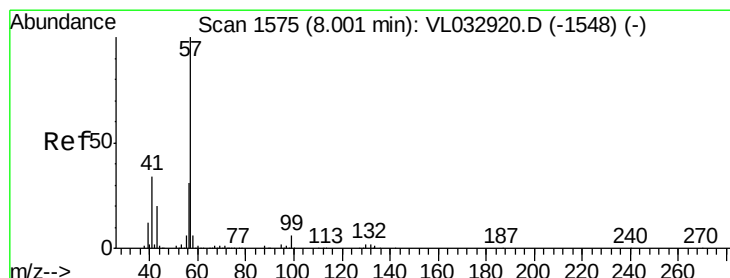
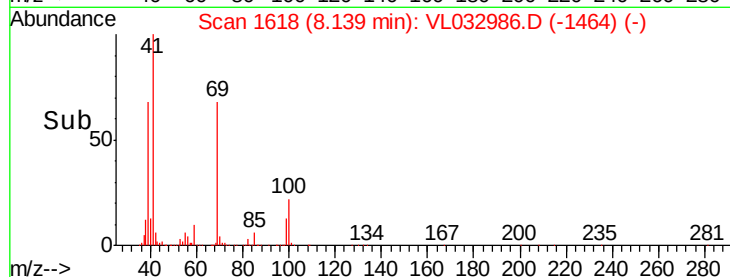
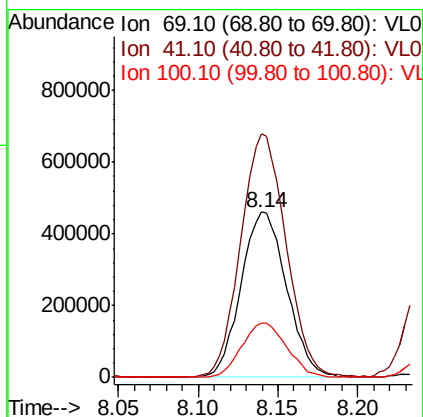
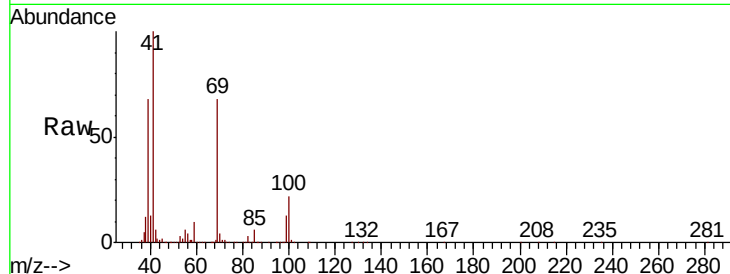
#43
Methvl Methacrylate
Concen: 9.927 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		896496		
41	146.5	116.6	175.0		
100	32.7	26.5	39.7		

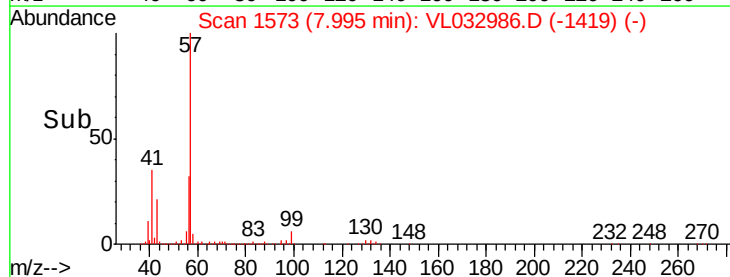
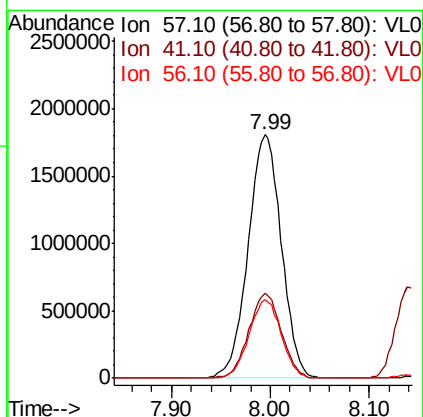
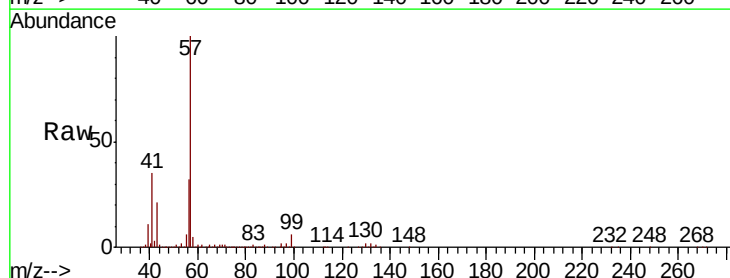
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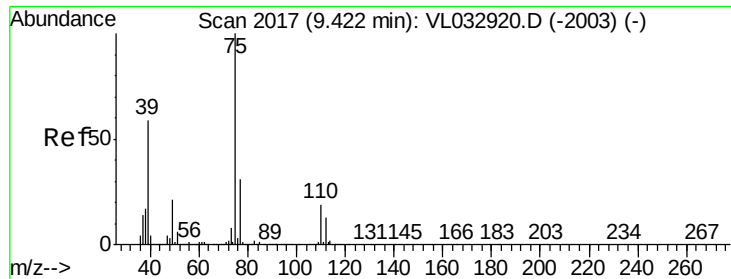
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#44
2,2,4-Trimethylpentane
Concen: 10.141 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		4195389		
41	34.1	27.0	40.4		
56	31.2	24.6	37.0		





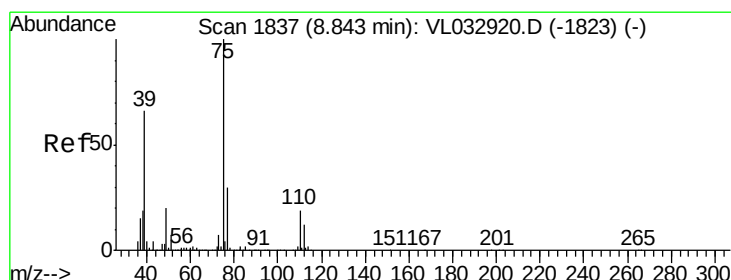
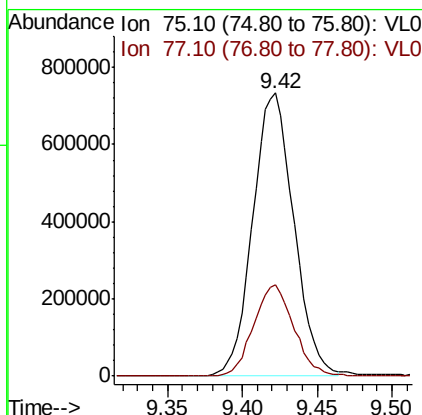
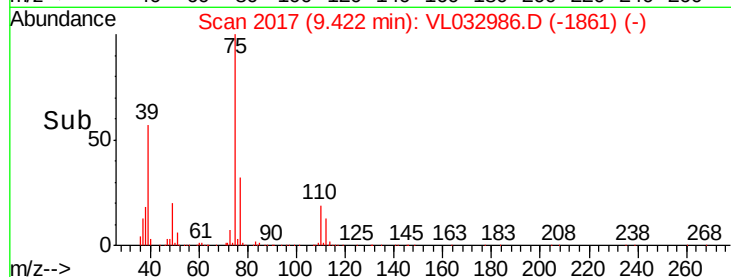
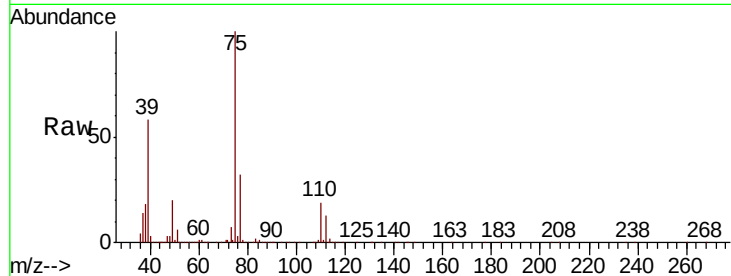
#45
t-1,3-Dichloropropene
Concen: 12.633 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. 0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion: 75 Resp: 1398922
Ion Ratio Lower Upper
75 100
77 32.3 24.8 37.2

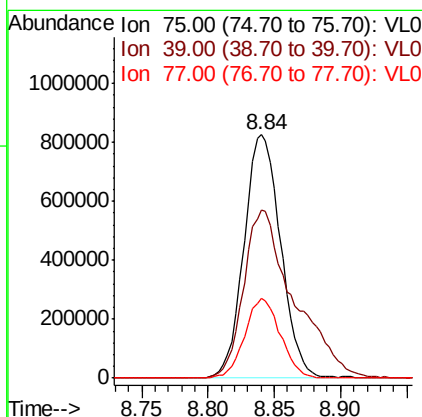
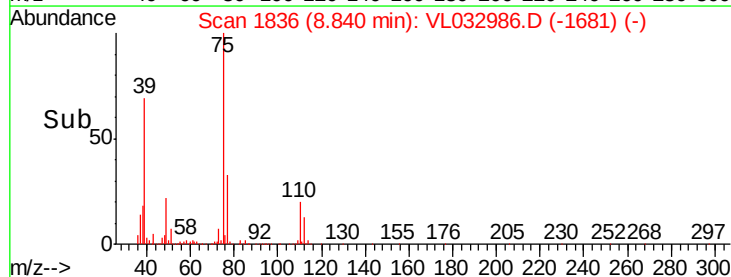
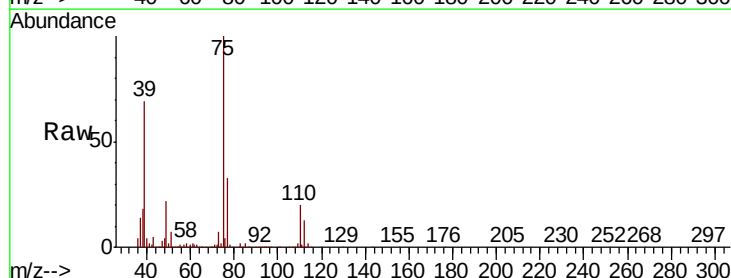
Manual Integrations
APPROVED

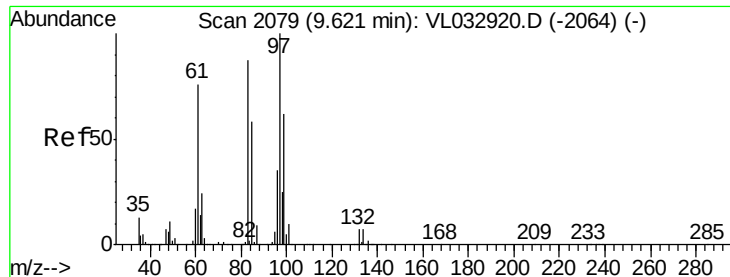
MMDadoda
12/14/2018 11:18:53 AM



#46
cis-1,3-Dichloropropene
Concen: 11.722 ppbv
RT: 8.84 min Scan# 1836
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion: 75 Resp: 1588672
Ion Ratio Lower Upper
75 100
39 69.2 52.8 79.2
77 32.5 24.3 36.5





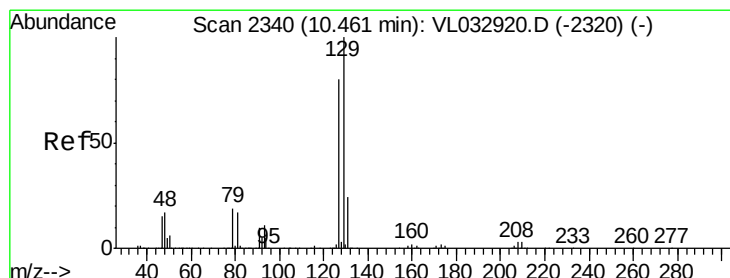
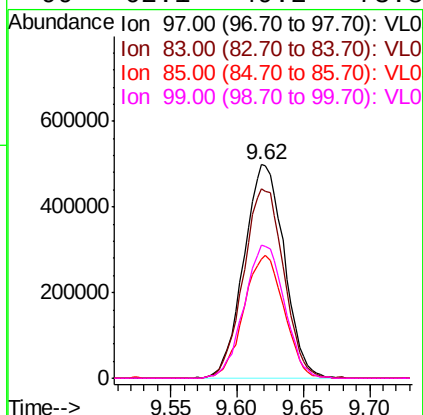
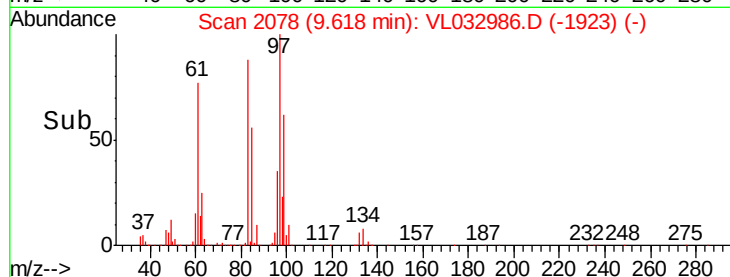
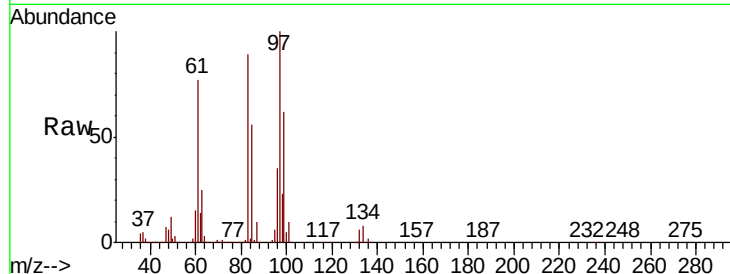
#47
 1,1,2-Trichloroethane
 Concen: 10.371 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.5	69.8	104.8
85	55.5	46.7	70.1
99	62.1	49.2	73.8

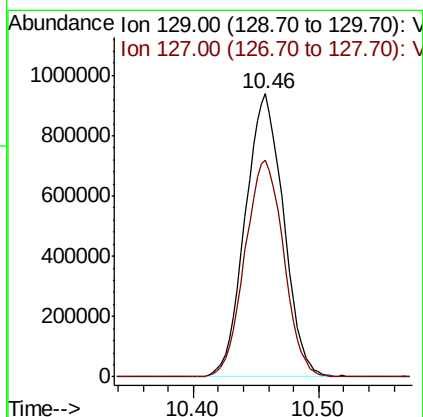
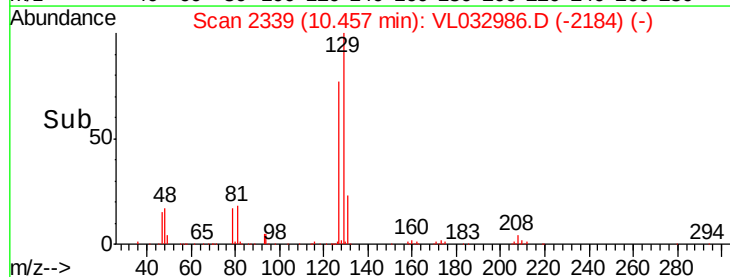
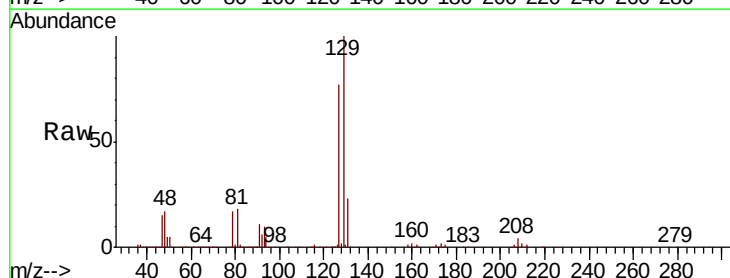
Manual Integrations
 APPROVED

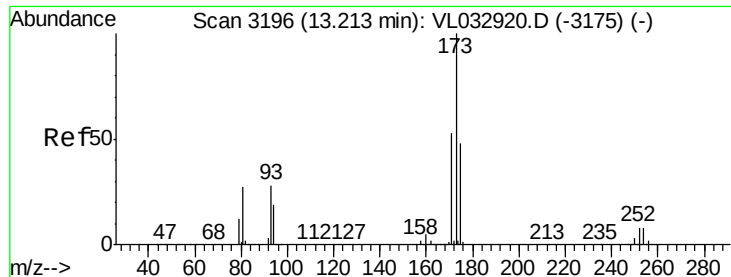
MMDadoda
 12/14/2018 11:18:53 AM



#48
 Dibromochloromethane
 Concen: 10.445 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.3	117.8





#49

Bromoform

Concen: 10.720 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion:173 Resp: 1682782

Ion Ratio Lower Upper

173 100

175 48.5 39.0 58.4

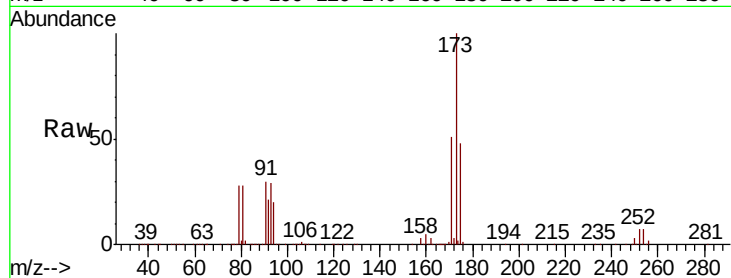
171 52.0 41.5 62.3

Manual Integrations

APPROVED

MMDadoda

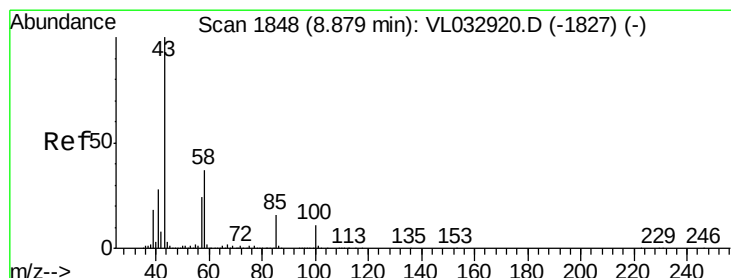
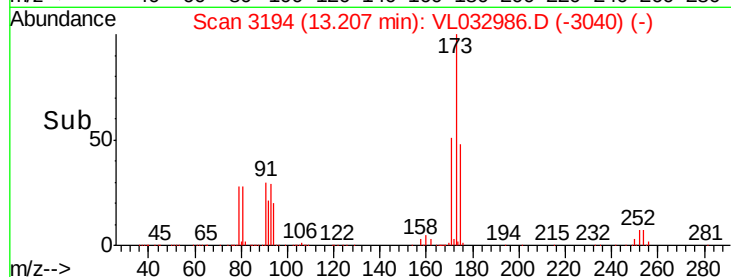
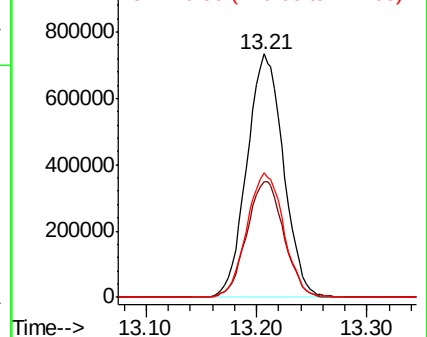
12/14/2018 11:18:53 AM



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: 10.427 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VL032986.D

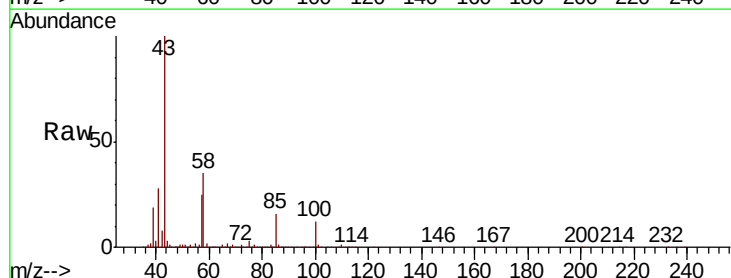
Acq: 13 Dec 2018 16:26

Tgt Ion: 43 Resp: 2406615

Ion Ratio Lower Upper

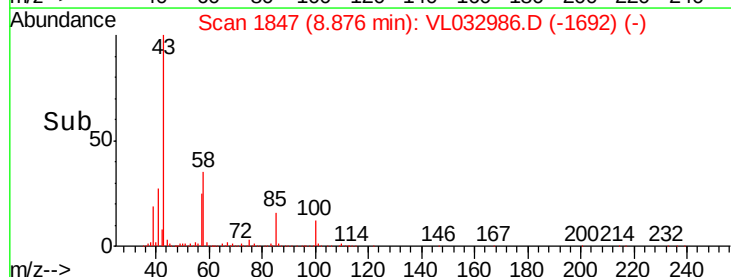
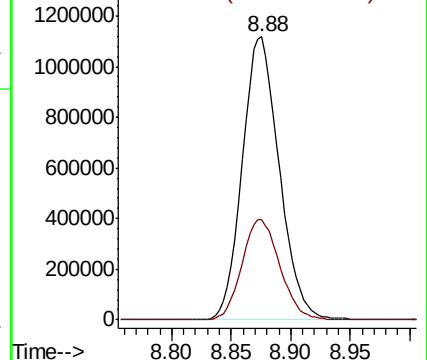
43 100

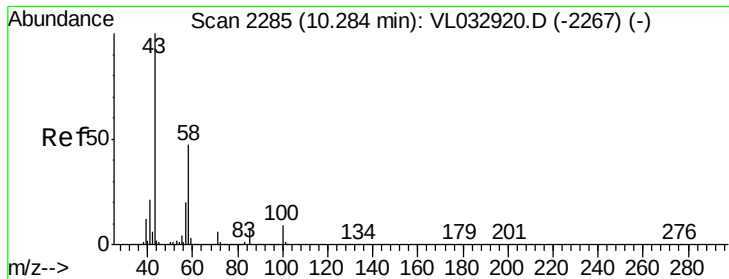
58 36.3 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





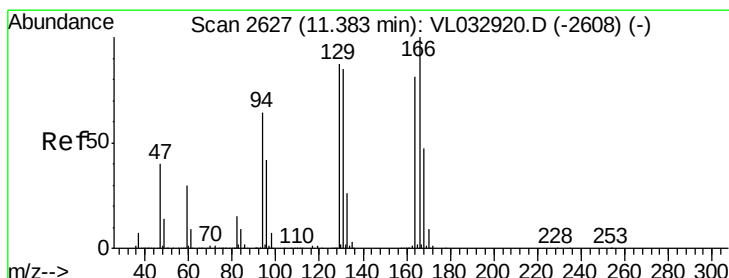
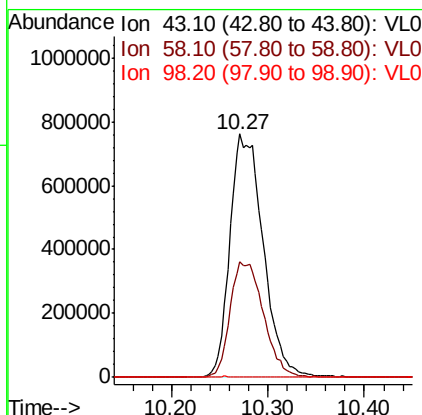
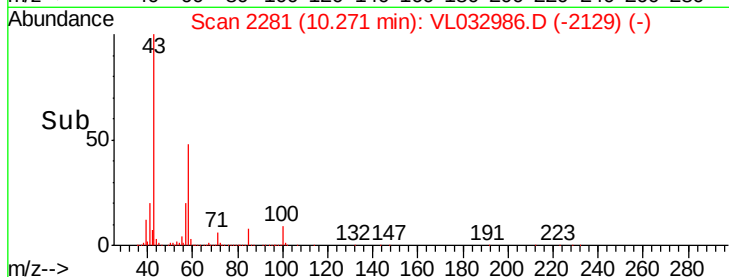
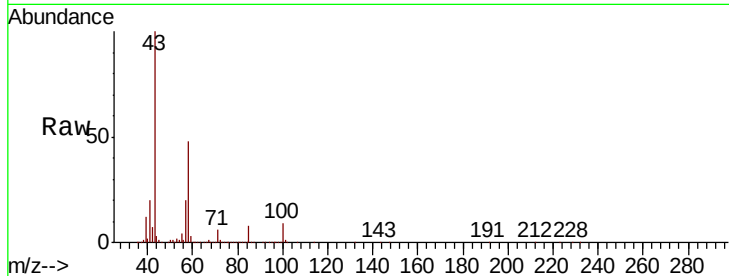
#51
2-Hexanone
Concen: 11.671 ppbv m
RT: 10.27 min Scan# 2281
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion: 43 Resp: 1826963
Ion Ratio Lower Upper
43 100
58 47.8 38.1 57.1
98 0.5 0.4 0.6

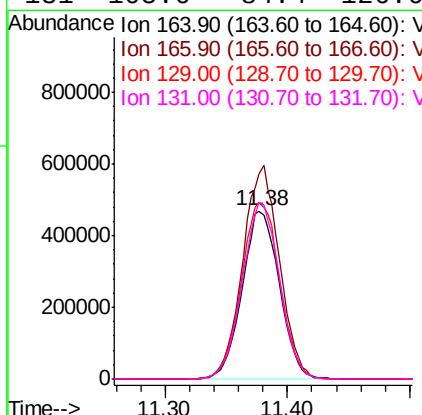
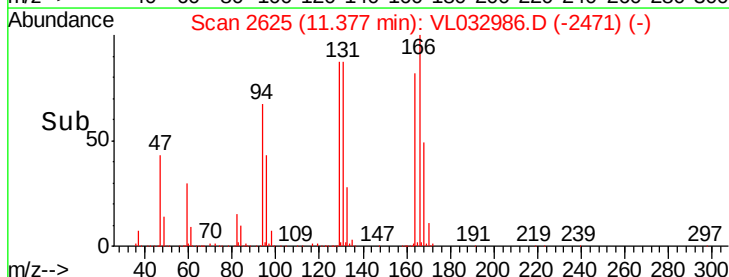
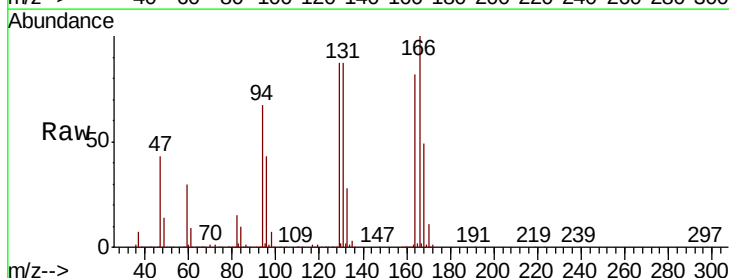
Manual Integrations
APPROVED

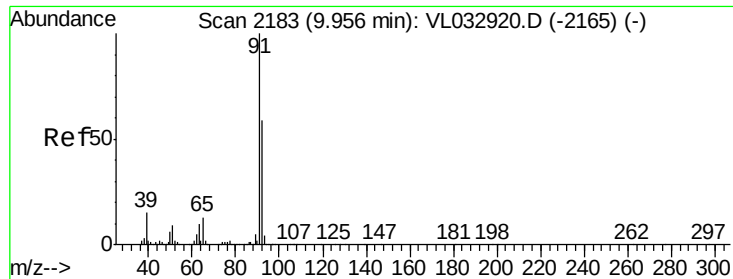
MMDadoda
12/14/2018 11:18:53 AM



#52
Tetrachloroethene
Concen: 11.071 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion: 164 Resp: 981495
Ion Ratio Lower Upper
164 100
166 122.0 98.8 148.2
129 105.6 85.5 128.3
131 105.6 84.4 126.6





#53

Toluene

Concen: 11.423 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 91 Resp: 2952826

Ion Ratio Lower Upper

91 100

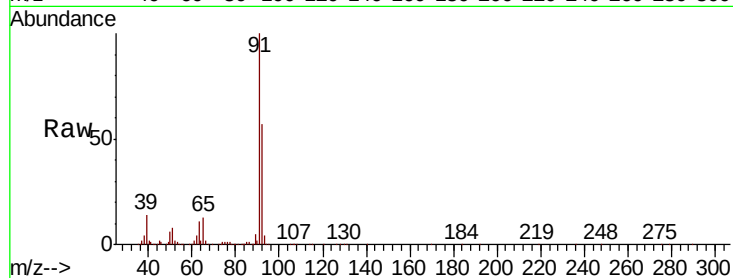
92 58.9 47.4 71.0

Manual Integrations

APPROVED

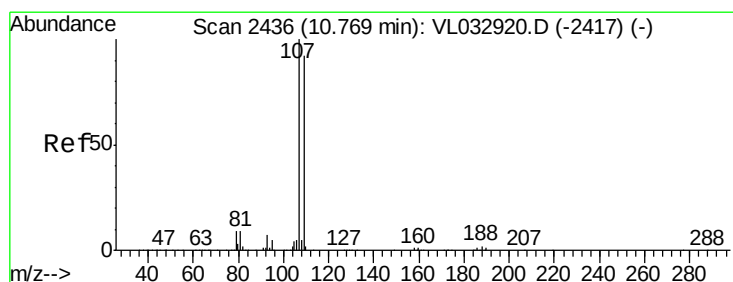
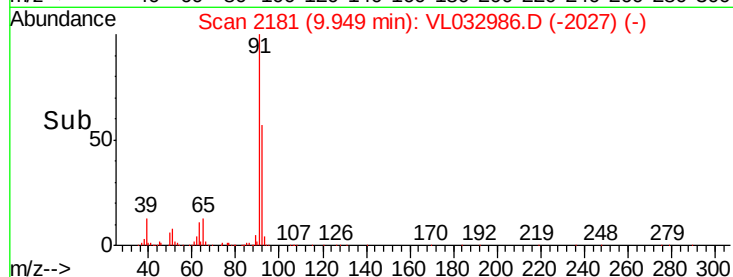
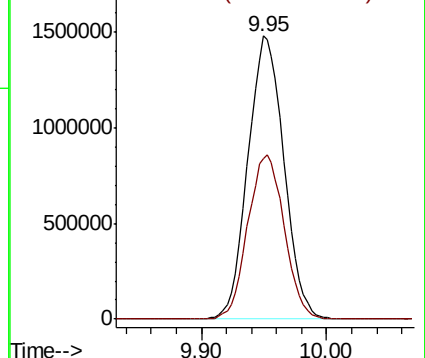
MMDadoda

12/14/2018 11:18:53 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.414 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL032986.D

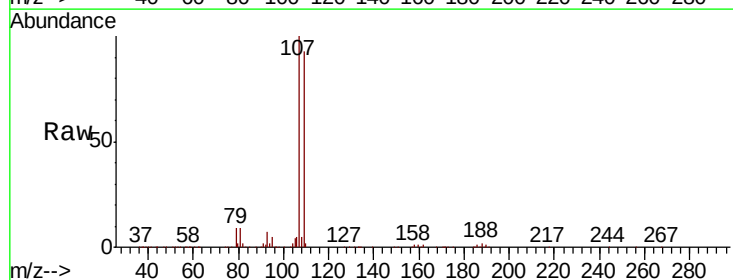
Acq: 13 Dec 2018 16:26

Tgt Ion:107 Resp: 1655108

Ion Ratio Lower Upper

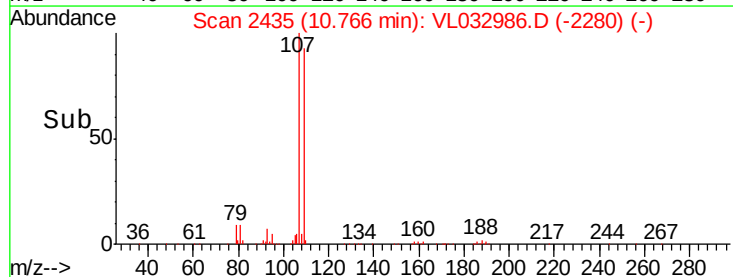
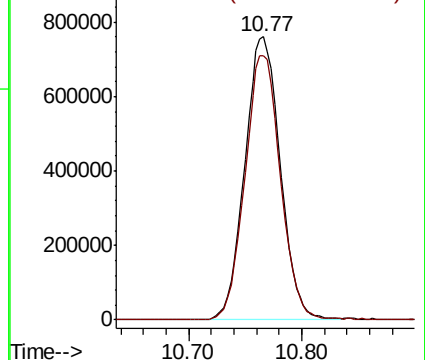
107 100

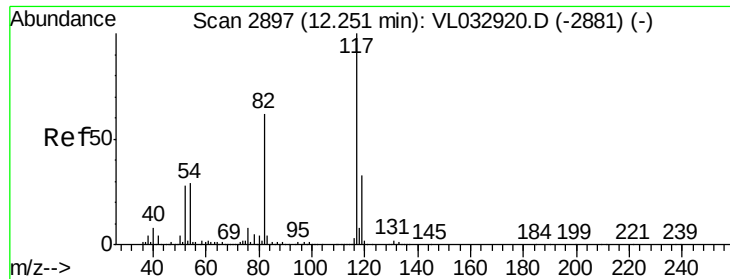
109 93.4 73.4 110.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





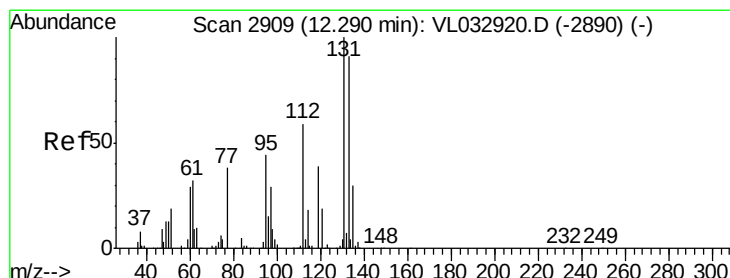
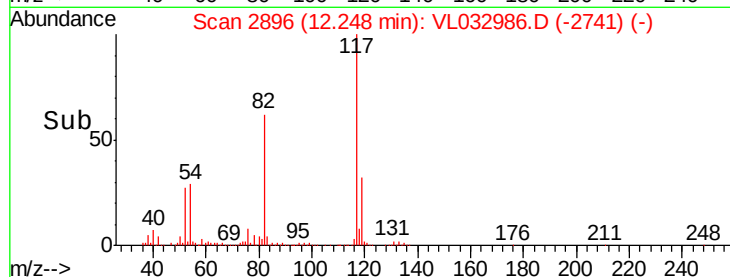
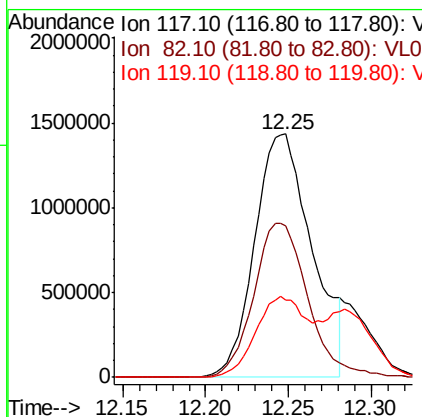
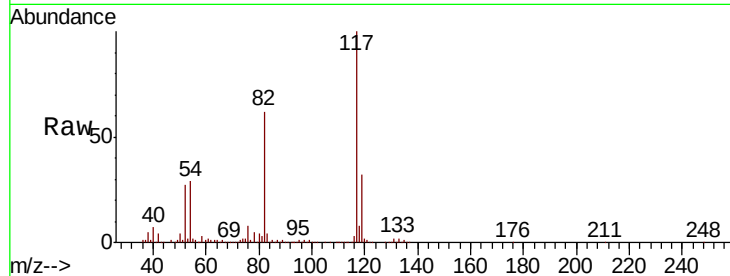
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.2	47.8	71.8
119	30.8	43.1	64.7#

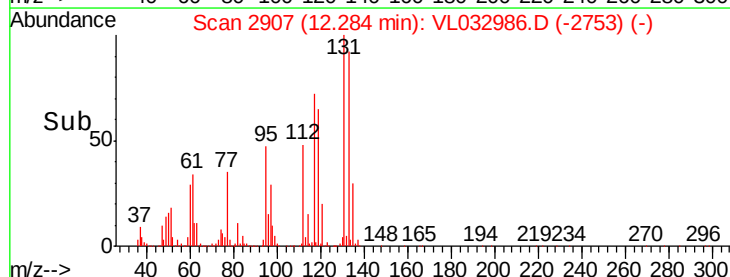
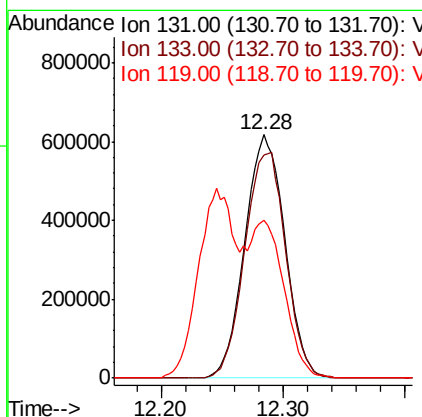
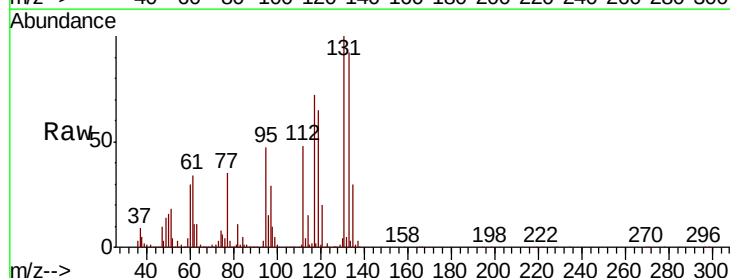
Manual Integrations
APPROVED

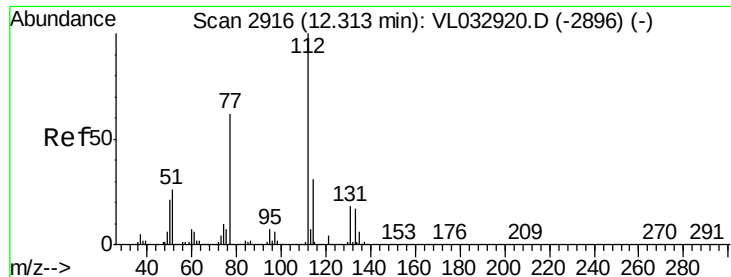
MMDadoda
12/14/2018 11:18:53 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.142 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	75.1	112.7
119	52.2	47.5	71.3





#57

Chlorobenzene

Concen: 9.166 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

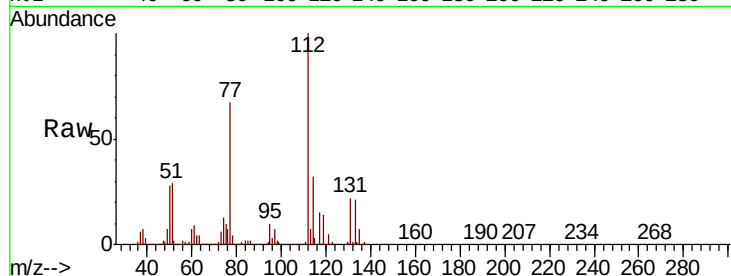
ClientSampleId :

VL1213ABS01

Tot Ion:	112	Resp:	2272949
Ion	Ratio	Lower	Upper
112	100		
77	66.5	51.1	76.7
114	31.7	28.4	34.7

Manual Integrations
APPROVED

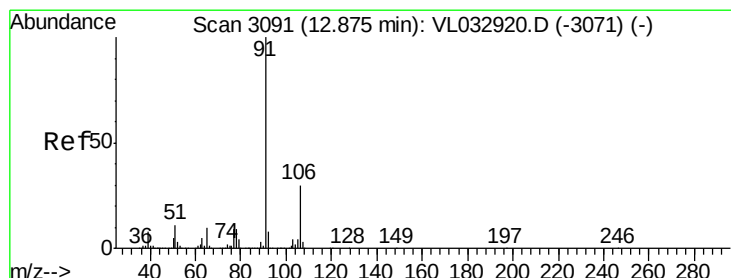
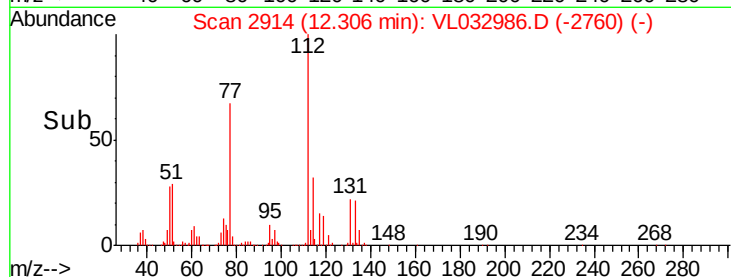
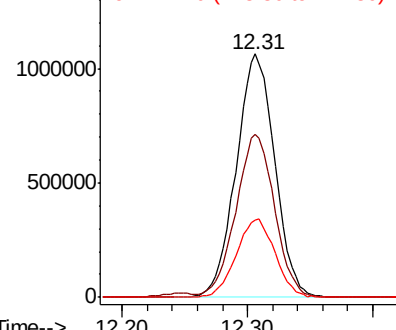
MMDadoda
12/14/2018 11:18:53 AM



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: 10.893 ppbv

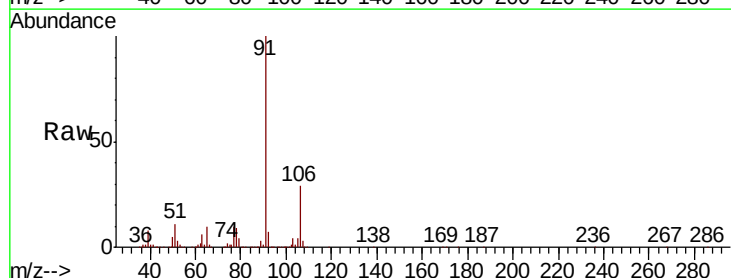
RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032986.D

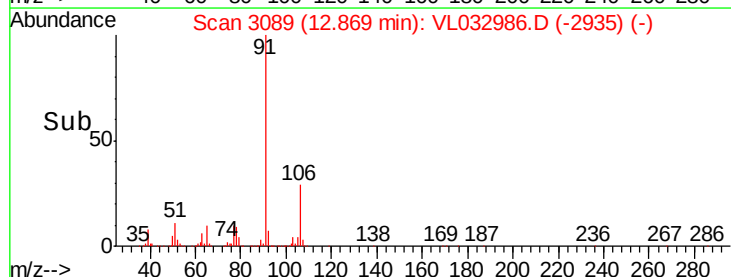
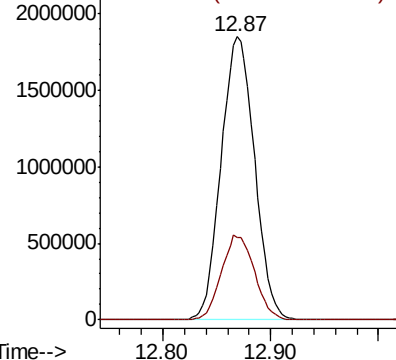
Acq: 13 Dec 2018 16:26

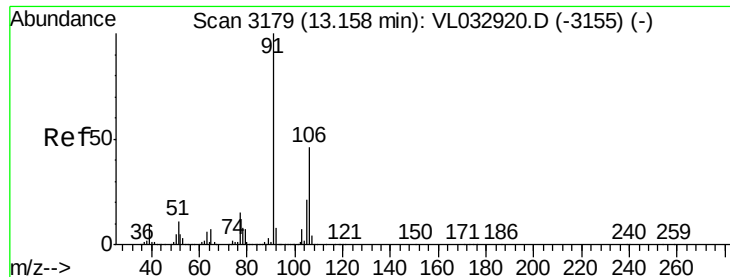
Tgt Ion:	91	Resp:	3989615
Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.9	35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





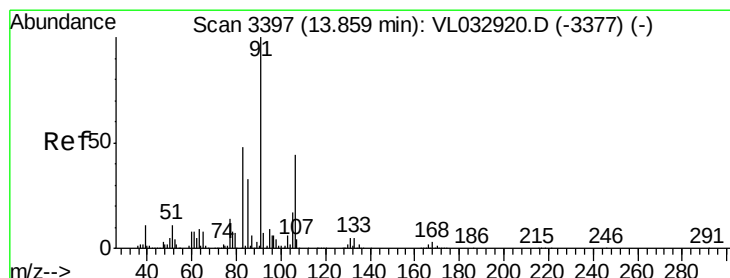
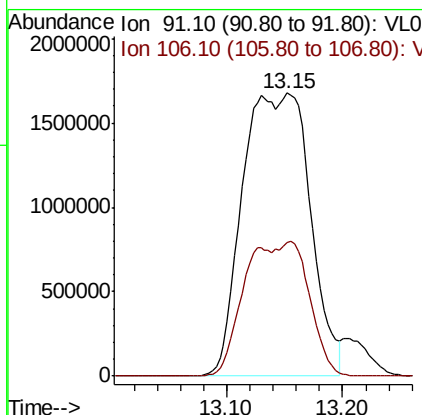
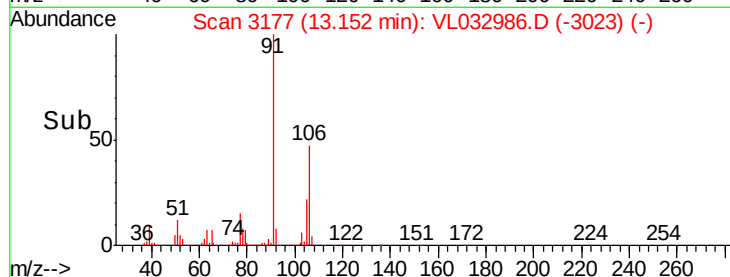
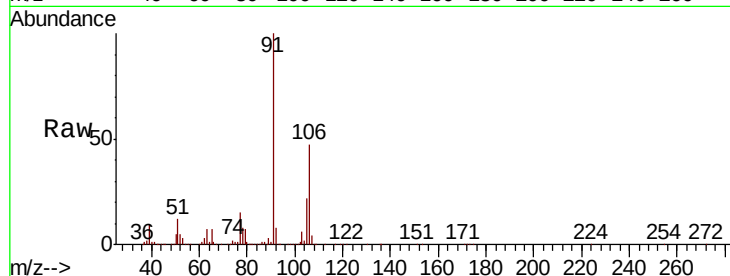
#59
m/p-Xylene
Concen: 20.445 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion: 91 Resp: 6788950
Ion Ratio Lower Upper
91 100
106 45.5 0.0 0.0#

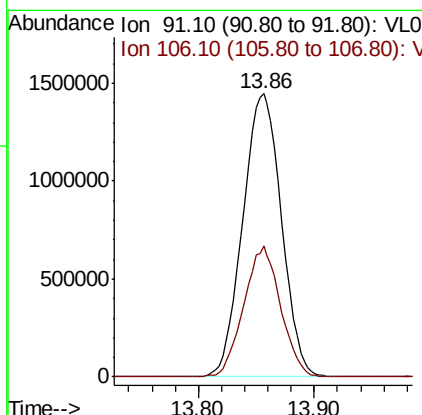
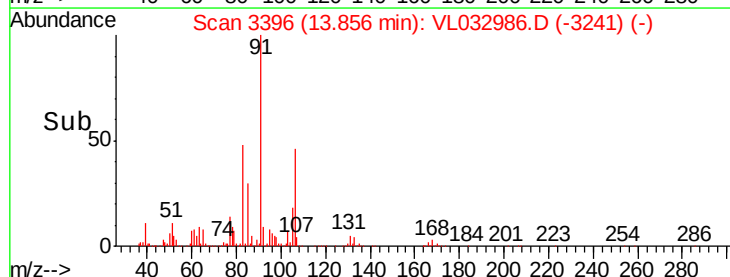
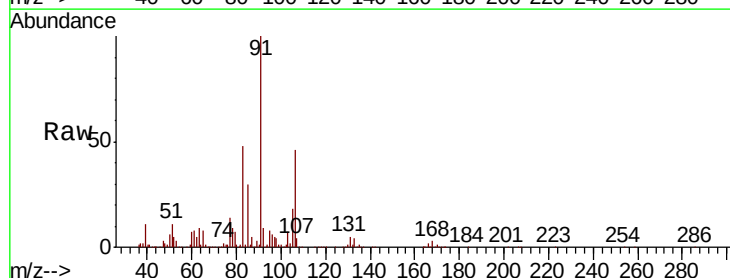
Manual Integrations
APPROVED

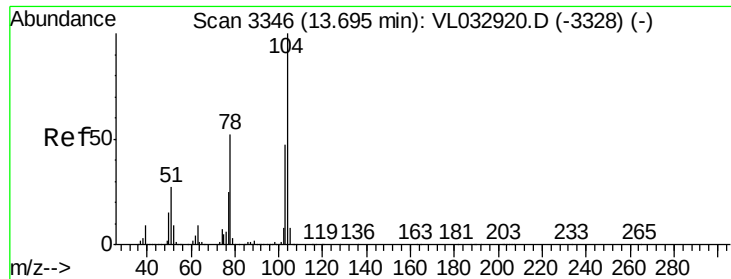
MMDadoda
12/14/2018 11:18:53 AM



#60
o-Xylene
Concen: 9.982 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion: 91 Resp: 3347582
Ion Ratio Lower Upper
91 100
106 44.0 21.9 65.8





#61

Stvrene

Concen: 10.931 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

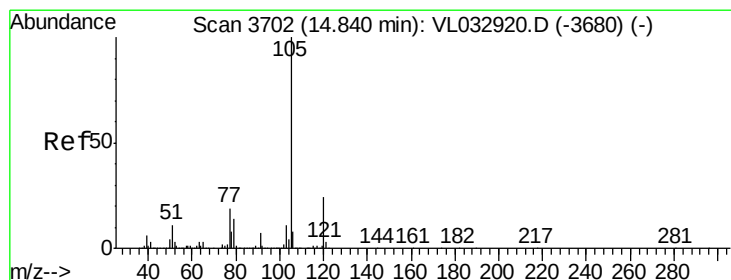
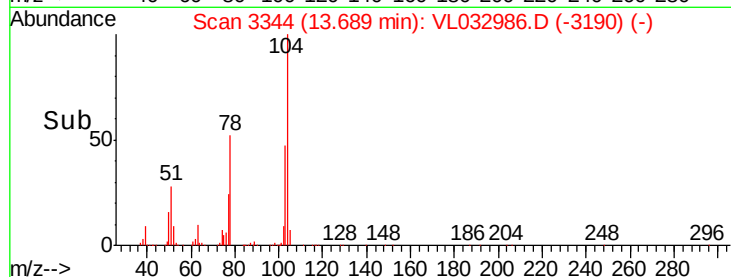
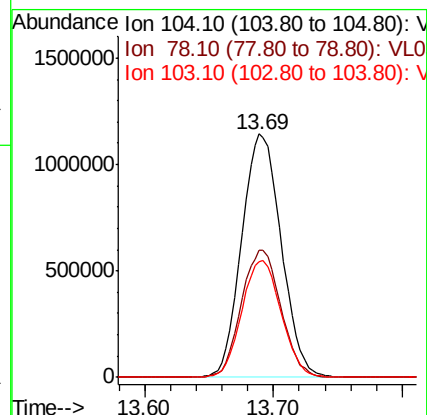
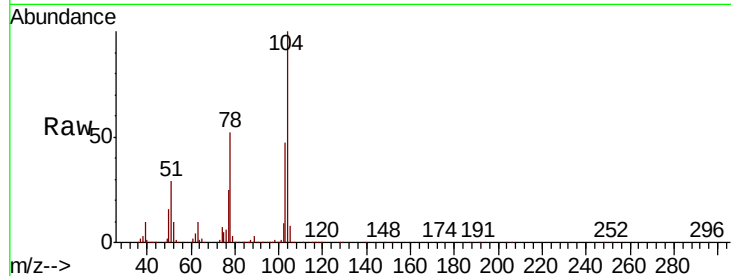
ClientSampleId :

VL1213ABS01

Tot Ion:	104	Resp:	2438354
Ion	Ratio	Lower	Upper
104	100		
78	52.6	42.0	63.0
103	47.9	38.3	57.5

Manual Integrations
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#62

Isopropylbenzene

Concen: 10.671 ppbv

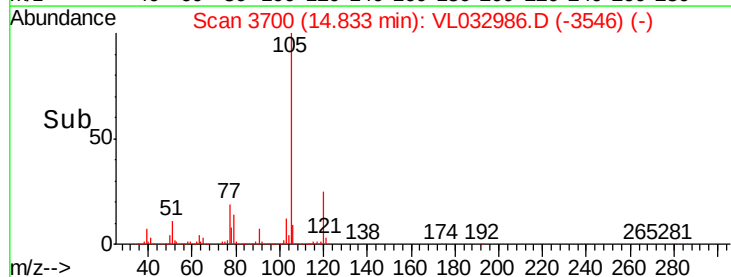
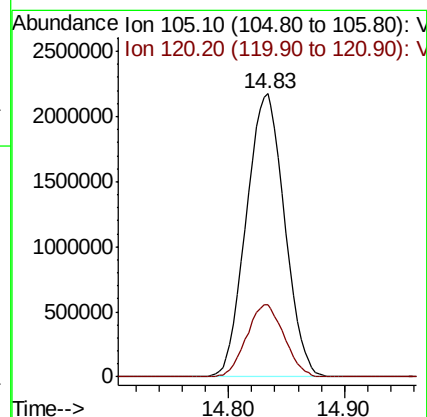
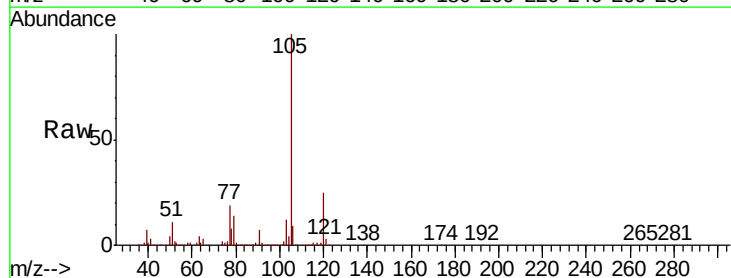
RT: 14.83 min Scan# 3700

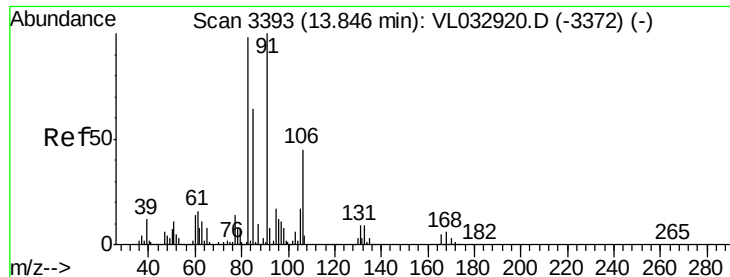
Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tgt Ion:	105	Resp:	4992700
Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.3	30.5





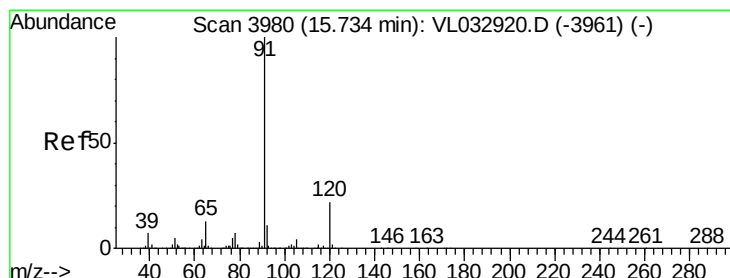
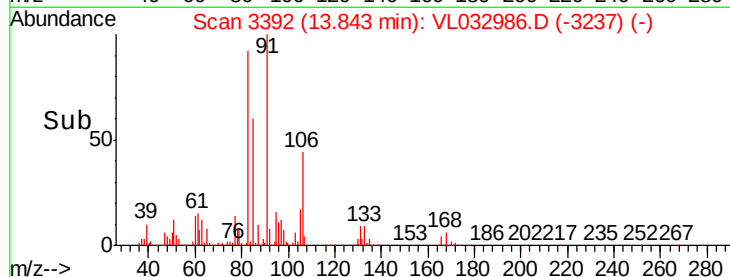
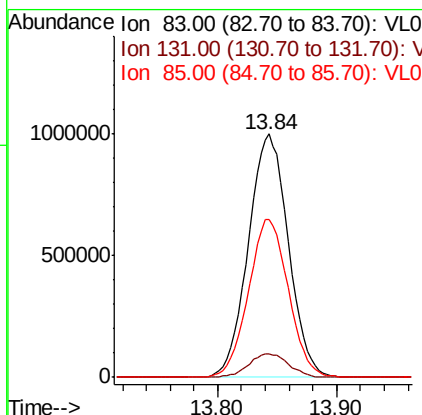
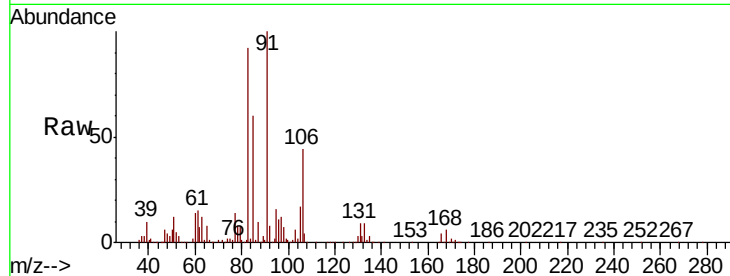
#63
1,1,2,2-Tetrachloroethane
Concen: 8.922 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.6
85	65.0	32.9	98.6

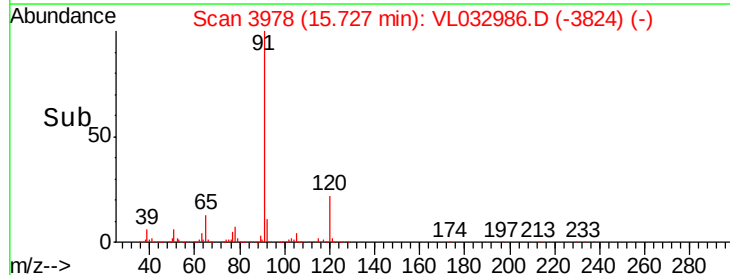
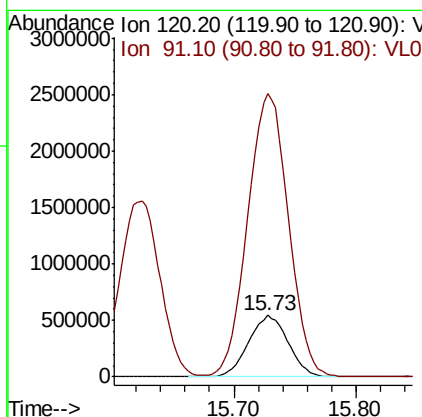
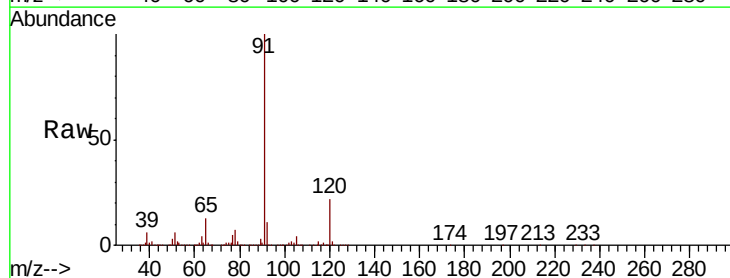
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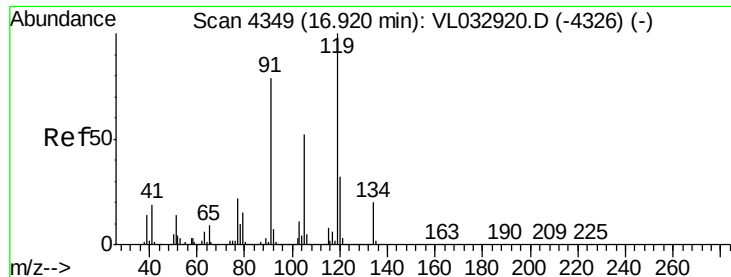
MMDadoda
12/14/2018 11:18:53 AM



#64
n-propylbenzene
Concen: 9.986 ppbv
RT: 15.73 min Scan# 3978
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
120	100		
91	477.4	380.4	570.6





#65

tert-Butylbenzene

Concen: 9.788 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion:119 Resp: 4245305

Ion Ratio Lower Upper

119 100

91 81.8 64.5 96.7

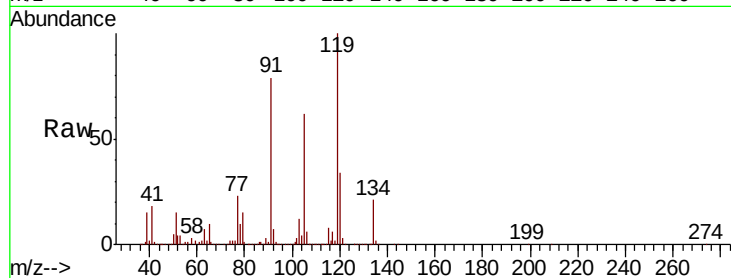
134 19.7 15.7 23.5

Manual Integrations

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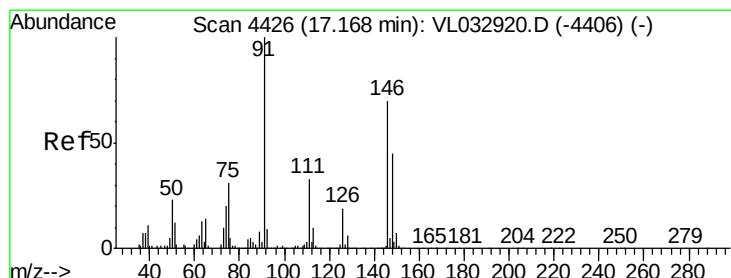
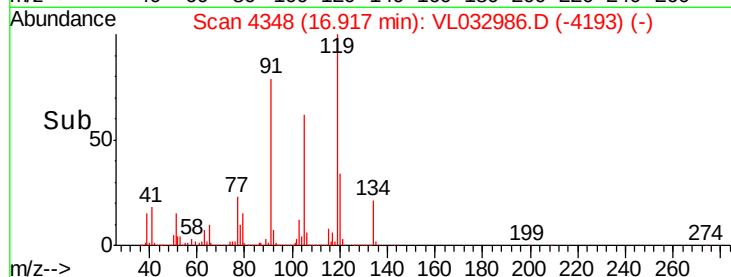
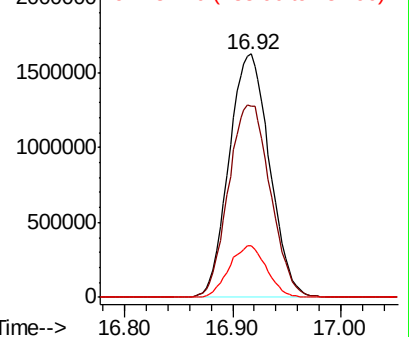
12/14/2018 11:18:53 AM



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: 10.829 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

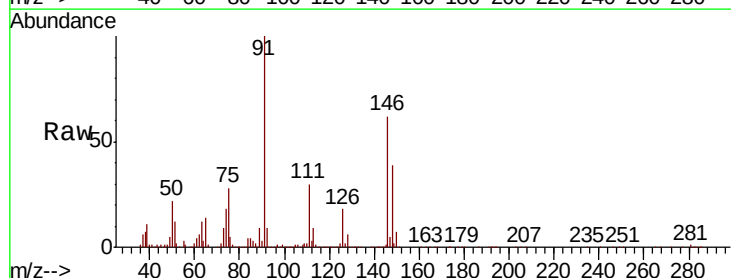
Tgt Ion: 91 Resp: 2603257

Ion Ratio Lower Upper

91 100

126 17.4 14.1 21.1

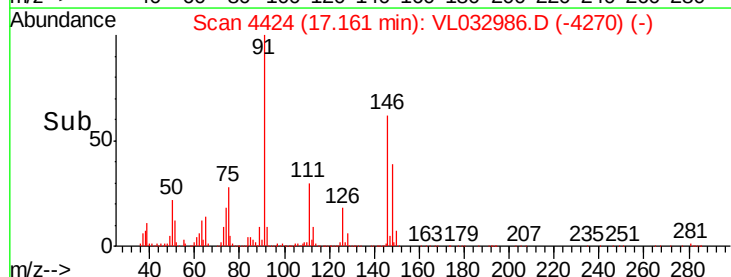
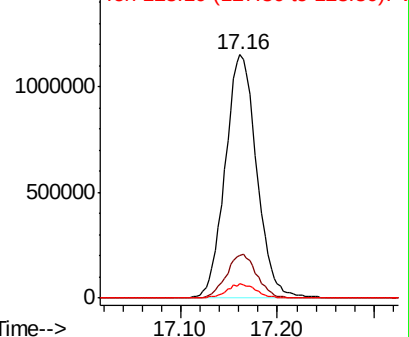
128 5.6 4.5 6.7

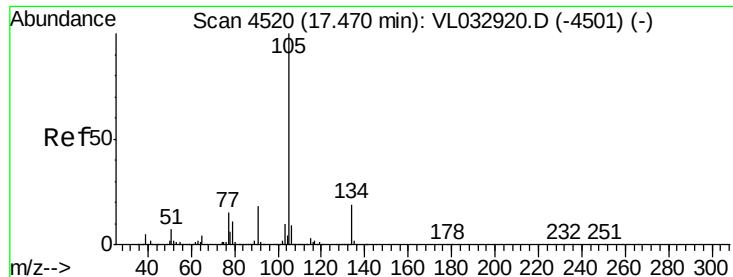


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.343 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion:105 Resp: 5974721

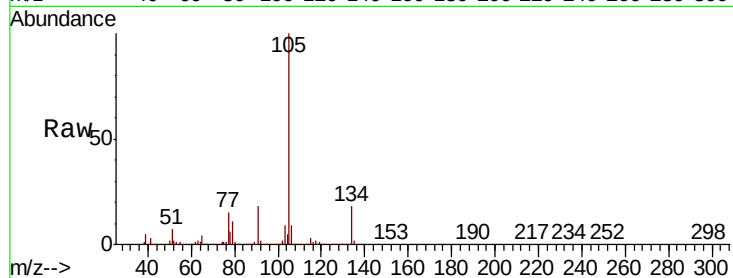
Ion Ratio Lower Upper

105 100

134 18.1 14.6 21.8

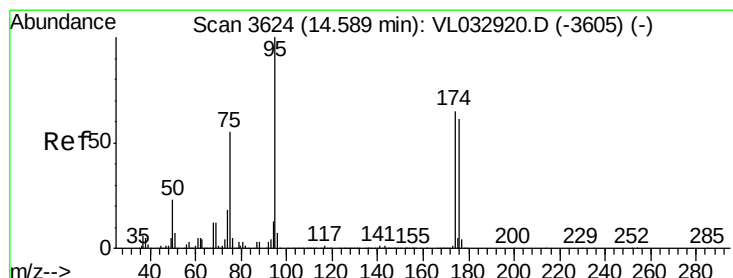
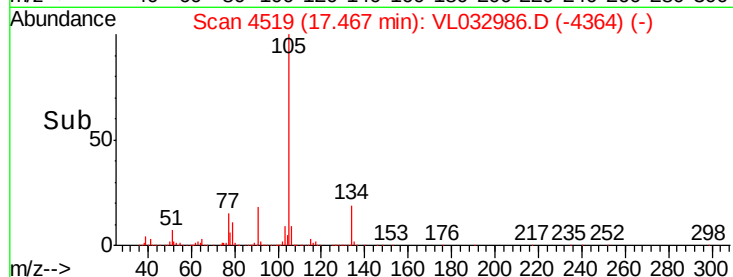
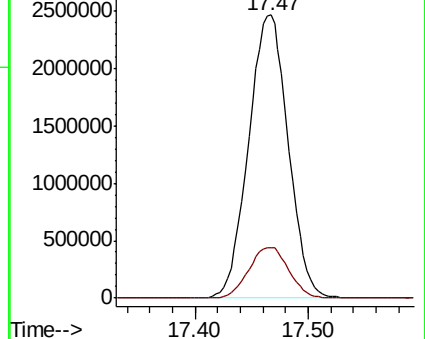
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.887 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

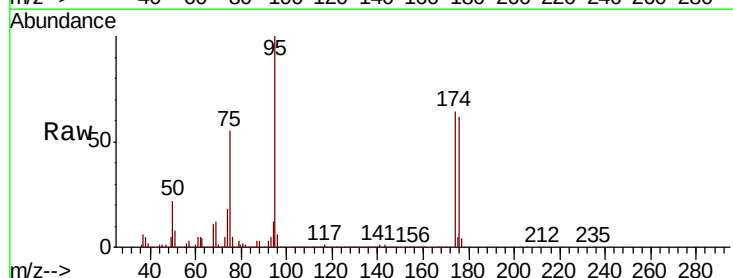
Tgt Ion: 95 Resp: 2507934

Ion Ratio Lower Upper

95 100

174 64.4 51.4 77.0

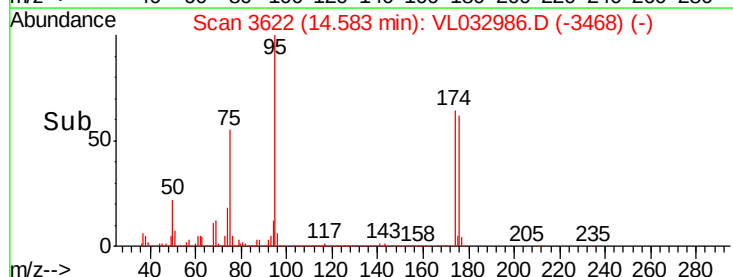
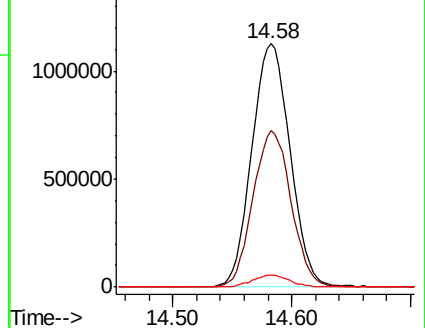
175 4.9 3.8 5.6

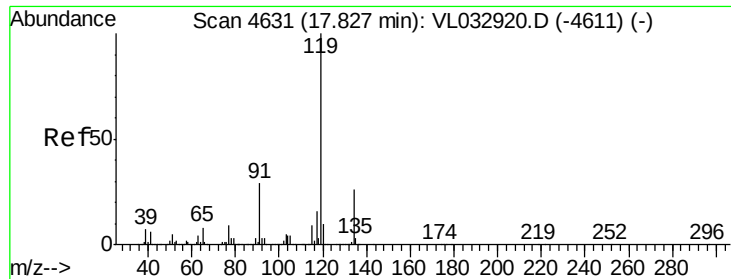


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





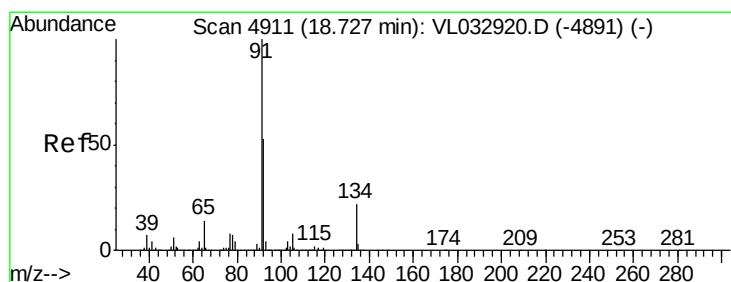
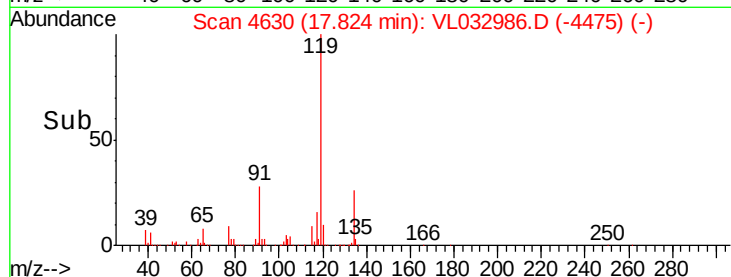
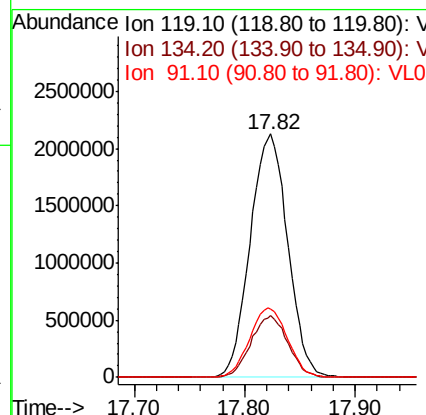
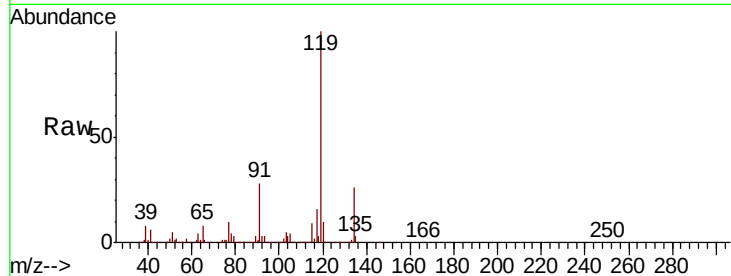
#69
 p-Isopropyltoluene
 Concen: 9.673 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.2	30.2
91	28.9	22.9	34.3

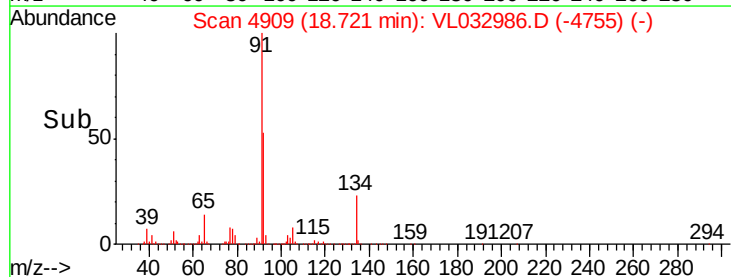
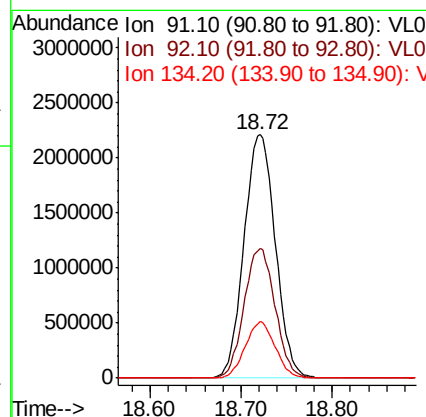
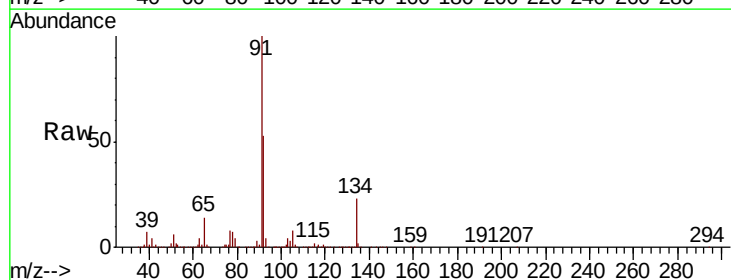
Manual Integrations
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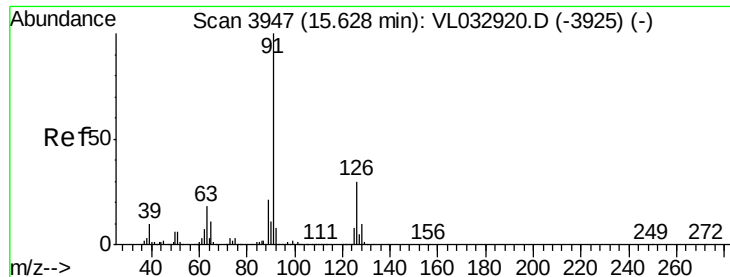
MMDadoda
 12/14/2018 11:18:53 AM



#70
 n-Butylbenzene
 Concen: 11.089 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. -0.01 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.7	64.1
134	22.2	18.0	27.0





#71

2-Chlorotoluene

Concen: 10.227 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion: 91 Resp: 3558338

Ion Ratio Lower Upper

91 100

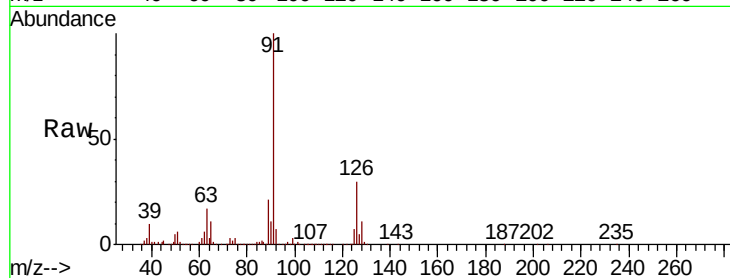
126 30.5 12.3 49.3

Manual Integrations

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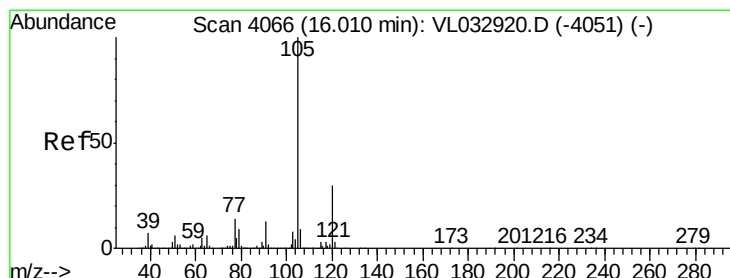
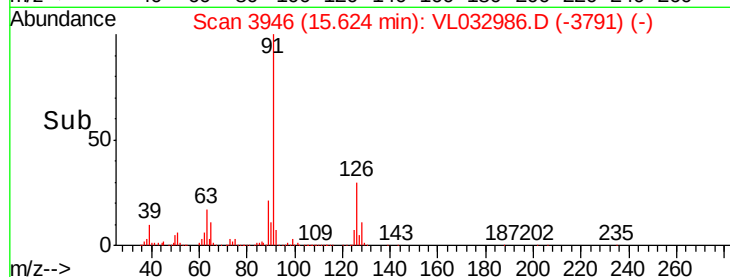
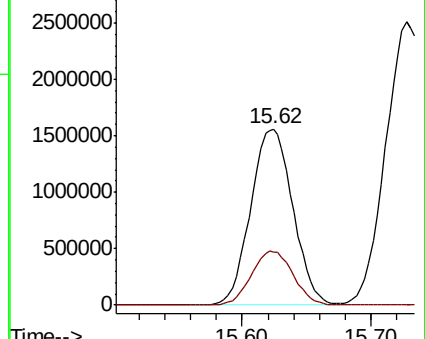
MMDadoda

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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: 10.255 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tgt Ion:105 Resp: 3839152

Ion Ratio Lower Upper

105 100

120 29.4 23.0 34.4

91 13.0 10.4 15.6

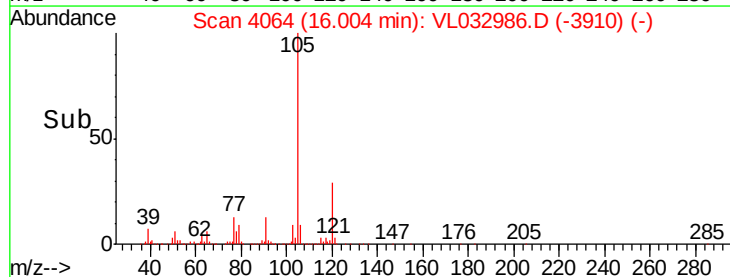
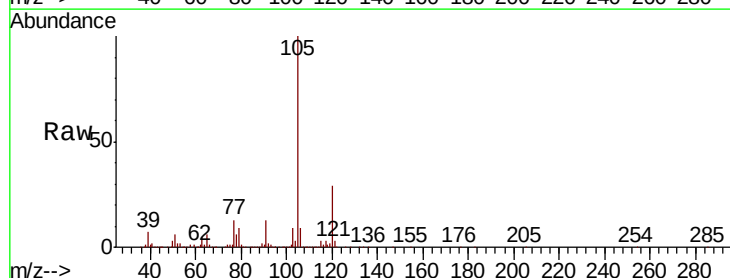
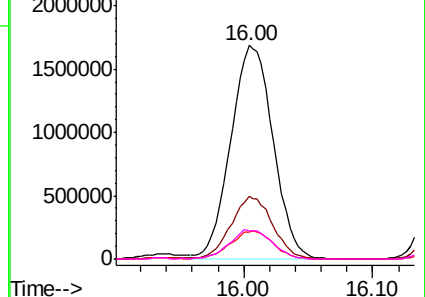
77 13.8 11.0 16.4

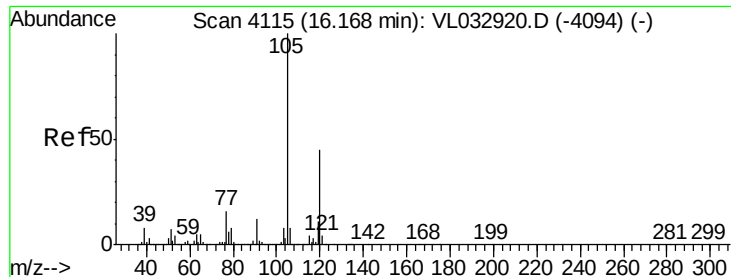
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





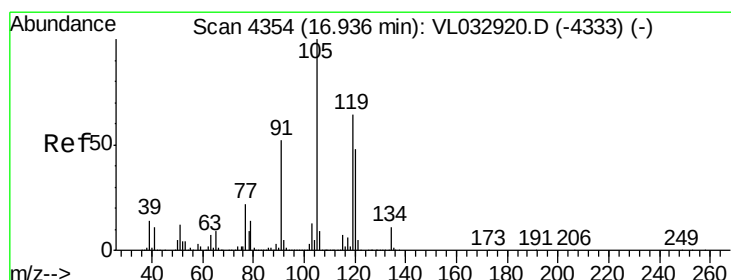
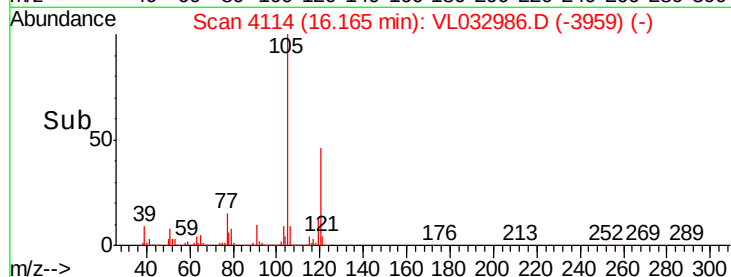
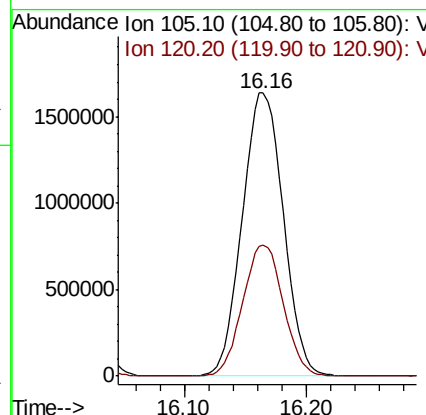
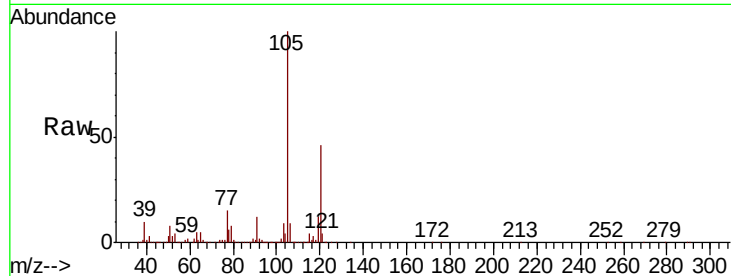
#73
 1,3,5-Trimethylbenzene
 Concen: 10.392 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Tot Ion:105 Resp: 3798227
 Ion Ratio Lower Upper
 105 100
 120 46.1 36.0 54.0

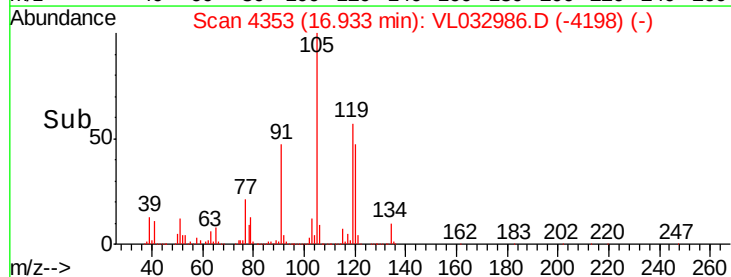
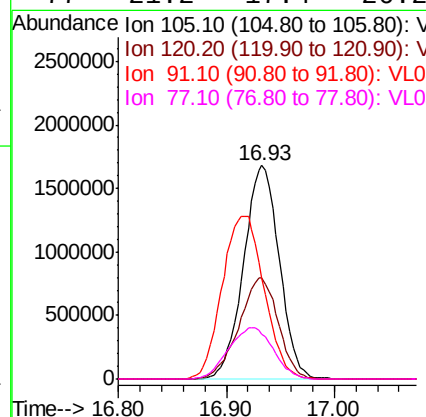
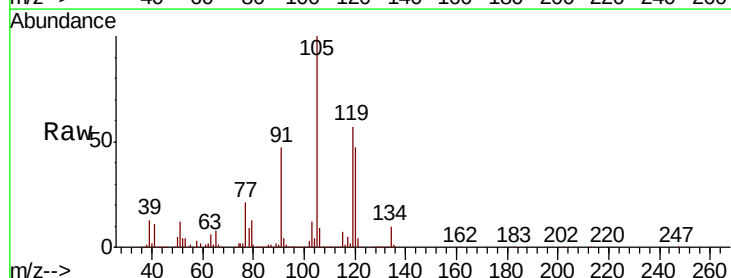
Manual Integrations
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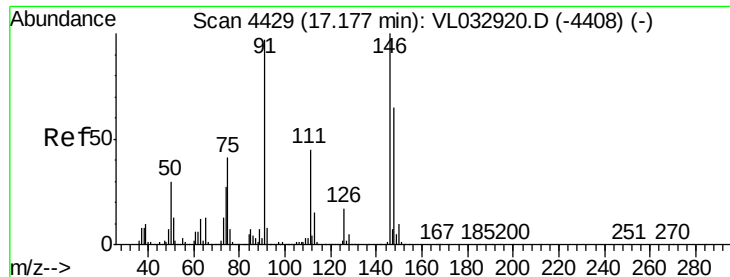
MMDadoda
 12/14/2018 11:18:53 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.368 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Tgt Ion:105 Resp: 3865964
 Ion Ratio Lower Upper
 105 100
 120 47.4 38.6 58.0
 91 47.1 41.7 62.5
 77 21.2 17.4 26.2





#75

1,3-Dichlorobenzene

Concen: 8.910 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

ClientSampleId :

VL1213ABS01

Tot Ion:146 Resp: 2165465

Ion Ratio Lower Upper

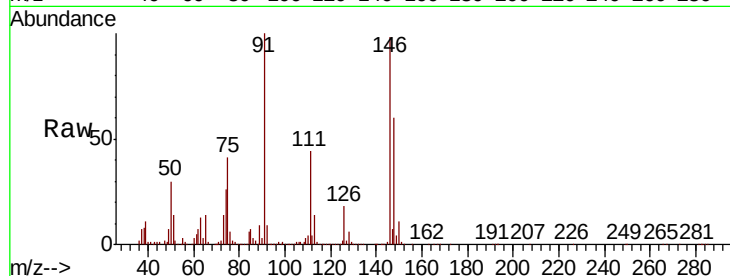
146 100

111 47.1 23.6 70.8

148 63.9 32.1 96.3

Manual Integrations
APPROVED

MMDadoda
12/14/2018 11:18:53 AM

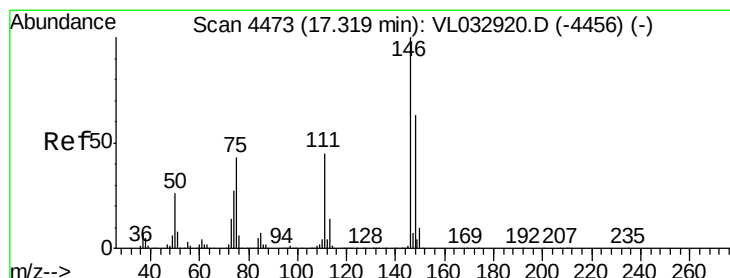
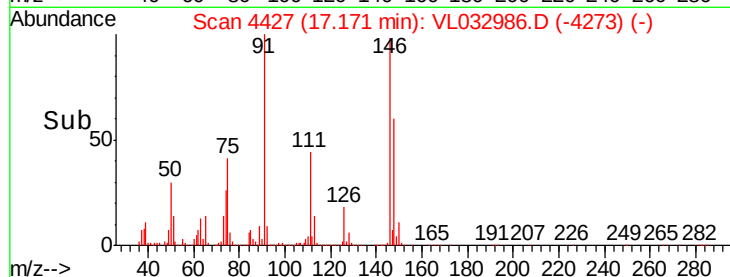
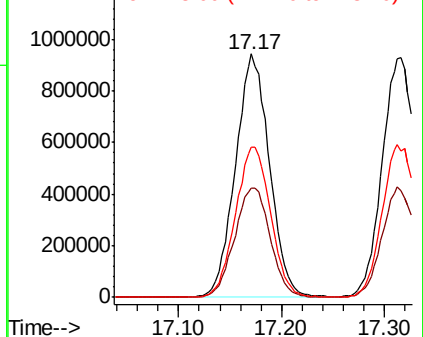


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.320 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

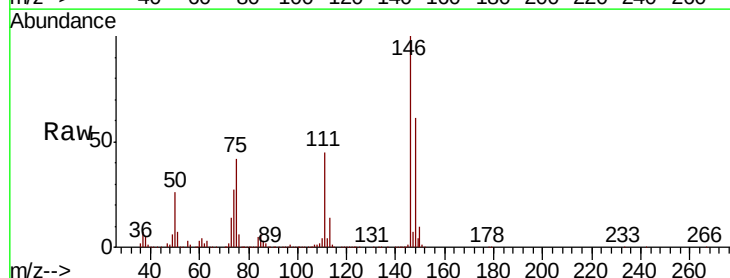
Tgt Ion:146 Resp: 2113476

Ion Ratio Lower Upper

146 100

111 46.3 22.8 68.4

148 65.5 32.0 96.2

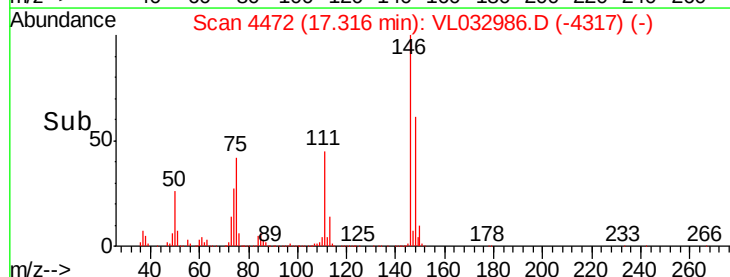
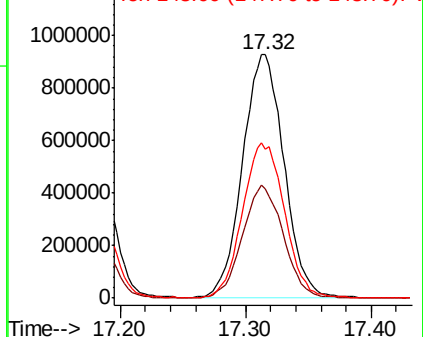


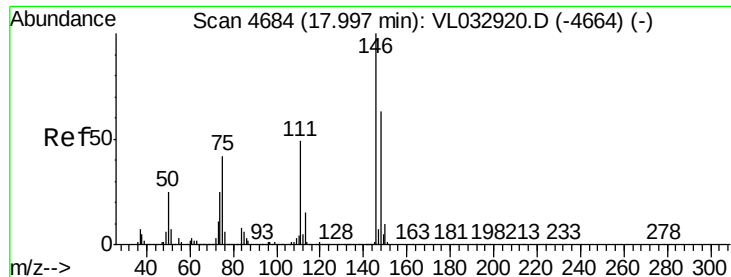
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.722 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.01 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Instrument :

MSVOA_L

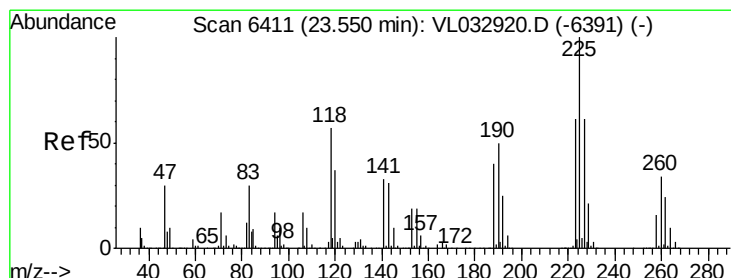
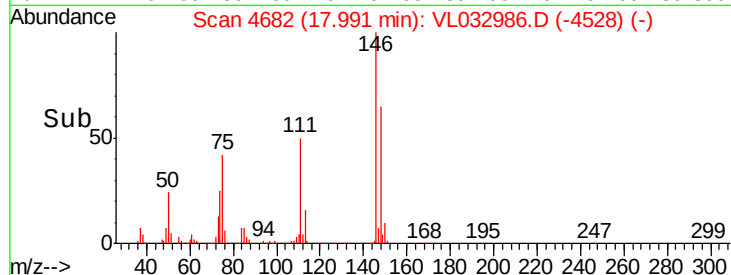
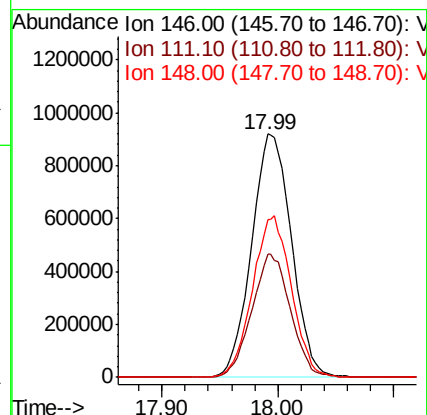
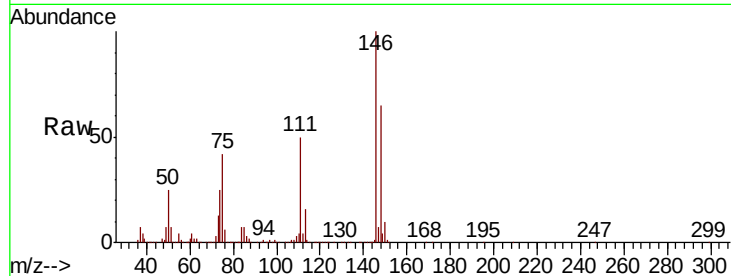
ClientSampleId :

VL1213ABS01

Tot Ion:	146	Resp:	2206347
Ion	Ratio	Lower	Upper
146	100		
111	49.1	24.3	72.9
148	64.4	32.0	96.2

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#78

Hexachloro-1,3-Butadiene

Concen: 7.666 ppbv

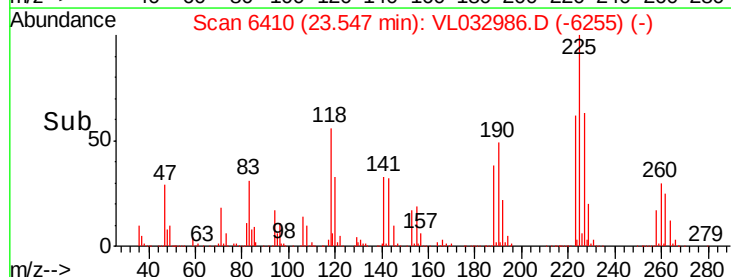
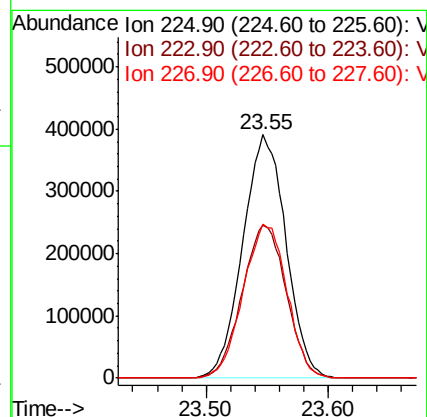
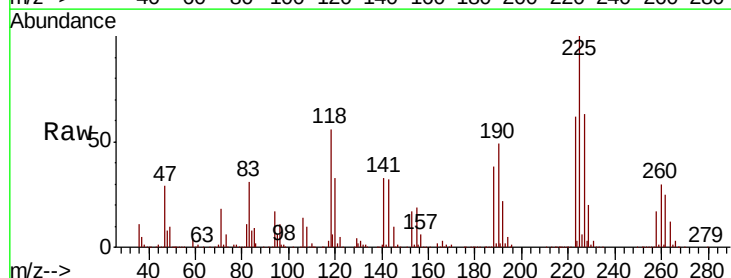
RT: 23.55 min Scan# 6410

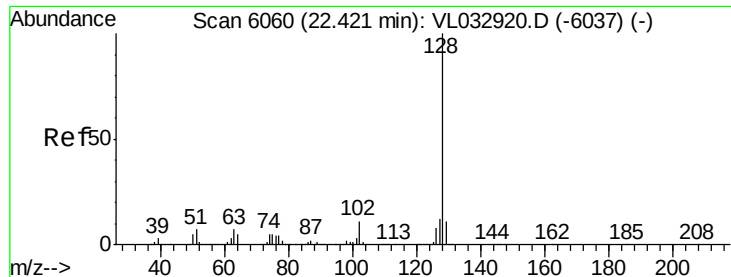
Delta R.T. -0.00 min

Lab File: VL032986.D

Acq: 13 Dec 2018 16:26

Tgt Ion:	225	Resp:	956791
Ion	Ratio	Lower	Upper
225	100		
223	64.3	50.6	75.8
227	64.1	50.4	75.6





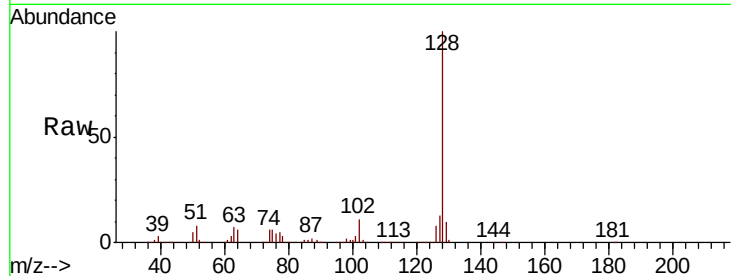
#79
Naphthalene
Concen: 11.291 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.01 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Instrument :
MSVOA_L
ClientSampleId :
VL1213ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.9	14.9
129	10.5	8.6	13.0

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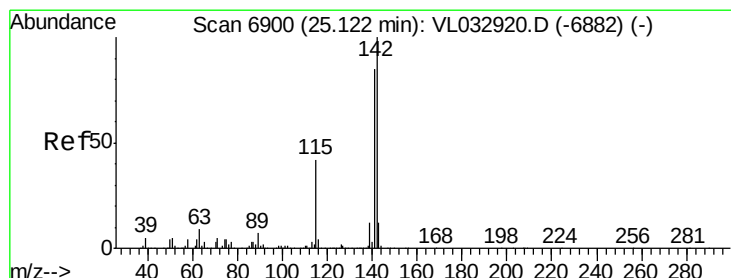
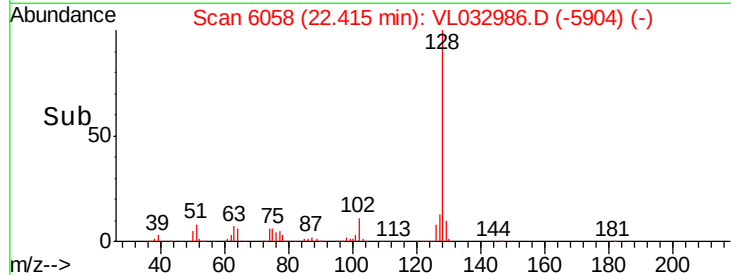
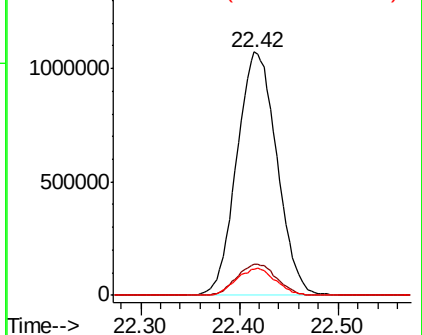


Abundance

Ion 128.10 (127.80 to 128.80): V

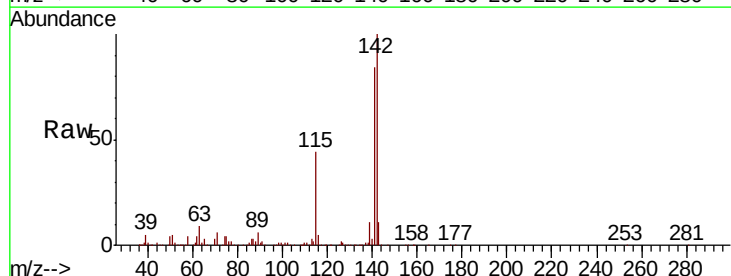
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80
Naphthalene, 2-methyl-
Concen: 11.222 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL032986.D
Acq: 13 Dec 2018 16:26

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.1	68.2	102.2
115	44.4	35.1	52.7

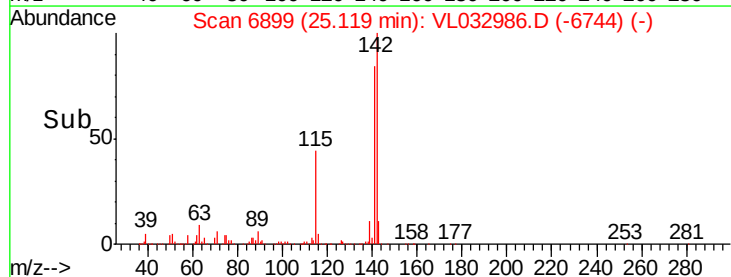
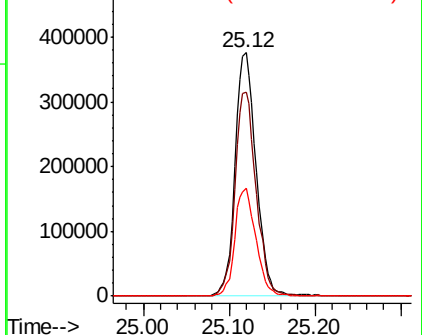


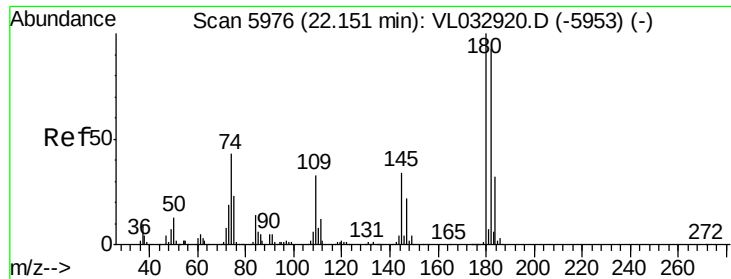
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.238 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.01 min
 Lab File: VL032986.D
 Acq: 13 Dec 2018 16:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1213ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.0	115.6
184	30.2	24.3	36.5

Manual Integrations
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