

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032520.D
 Acq On : 24 Sep 2018 20:21
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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 9/26/2018 4:47:29 PM

Quant Time: Sep 24 21:07:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 2018
 QLast Update : Mon Sep 24 18:32:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1549515	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.33	114	3605694	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3832290m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2829193	9.94	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1312605	6.622	ppbv	99
3) Chlorodifluoromethane	3.03	51	1742517	12.423	ppbv	100
4) Chloromethane	3.19	50	1036063	12.199	ppbv	99
5) Vinyl Chloride	3.31	62	990130	11.811	ppbv	99
6) Bromomethane	3.53	94	578732	13.152	ppbv	99
7) Chloroethane	3.62	64	370367	12.765	ppbv	98
8) Dichlorotetrafluoroethane	3.24	85	1970498	11.201	ppbv	100
9) Propene	3.05	41	808295	14.286	ppbv	100
10) Heptane	8.28	43	3140658	15.473	ppbv	98
11) Trichlorofluoromethane	4.02	101	2265227	12.675	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1841627	15.206	ppbv	99
13) Ethanol	3.67	45	187460	10.629	ppbv	95
14) Bromoethene	3.81	108	717556	13.985	ppbv	100
15) Acetone	3.92	43	1748350	12.530	ppbv	100
16) 1,3-Butadiene	3.38	39	720485	10.973	ppbv	92
17) tert-Butyl alcohol	4.38	59	202564	9.433	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	912419	16.485	ppbv	95
19) Isopropyl Alcohol	4.04	45	1261029	13.776	ppbv	99
20) Methylene Chloride	4.43	84	813176	15.283	ppbv	99
21) Allyl Chloride	4.50	41	1627780	17.564	ppbv	99
22) trans-1,2-Dichloroethene	4.99	96	893803	14.883	ppbv	98
23) Vinyl Acetate	5.18	43	3681013	15.915	ppbv	99
24) 1,1-Dichloroethane	5.12	63	2712620	14.233	ppbv	99
25) Ethyl Acetate	5.80	43	4645082	14.097	ppbv	100
26) Hexane	5.81	57	2171672	14.718	ppbv	99
27) Carbon Disulfide	4.64	76	2430426	17.844	ppbv	99
28) Methyl tert-Butyl Ether	5.14	73	2778758	15.339	ppbv	99
29) Chloroform	5.88	83	3146953	13.988	ppbv	100
30) Cyclohexane	7.28	84	1915258	17.728	ppbv	98
31) cis-1,2-Dichloroethene	5.67	61	2243941	16.796	ppbv	98
32) 1,1,1-Trichloroethane	6.65	97	3172205	15.128	ppbv	98
34) 2-Butanone	5.35	43	3049946	12.735	ppbv	99
35) Carbon Tetrachloride	7.16	117	3244474	13.388	ppbv	100
36) Benzene	7.04	78	4258991	13.880	ppbv	99
37) 1,2-Dichloroethane	6.44	62	2467339	13.121	ppbv	99
38) Trichloroethene	7.99	130	1625879	13.949	ppbv	98
39) 1,2-Dichloropropane	7.77	63	1885051	14.358	ppbv	99
40) 1,4-Dioxane	7.98	88	505044	12.822	ppbv	77
41) Tetrahydrofuran	6.17	42	1826946	14.012	ppbv	97
42) Bromodichloromethane	7.95	83	3765264	14.518	ppbv	99
43) Methyl Methacrylate	8.17	69	2010202	15.442	ppbv	99

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 2018
 QLast Update : Mon Sep 24 18:32:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	8080029	13.620	ppbv	100
45) t-1,3-Dichloropropene	9.45	75	2538279	18.222	ppbv	100
46) cis-1,3-Dichloropropene	8.87	75	3021446	16.974	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	2062653	14.777	ppbv	99
48) Dibromochloromethane	10.49	129	3412187	17.651	ppbv	100
49) Bromoform	13.24	173	2622888	15.610	ppbv	99
50) 4-Methyl-2-Pentanone	8.90	43	4879411	13.525	ppbv	99
51) 2-Hexanone	10.30	43	4532920	19.506	ppbv #	99
52) Tetrachloroethene	11.41	164	1471658	15.467	ppbv	99
53) Toluene	9.98	91	5779777	18.020	ppbv	99
54) 1,2-Dibromoethane	10.80	107	3144778	16.780	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.32	131	2189293	12.671	ppbv #	66
57) Chlorobenzene	12.34	112	3935956	12.851	ppbv #	97
58) Ethyl Benzene	12.90	91	7133172	15.554	ppbv	100
59) m/p-Xylene	13.19	91	11531471m	28.204	ppbv	
60) o-Xylene	13.89	91	5689477	14.166	ppbv	99
61) Styrene	13.72	104	4390805	16.887	ppbv	99
62) Isopropylbenzene	14.86	105	8021082	14.207	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.88	83	4243605	11.818	ppbv	98
64) n-propylbenzene	15.76	120	2125674	14.402	ppbv	97
65) tert-Butylbenzene	16.95	119	6607670	13.582	ppbv	100
66) Benzyl Chloride	17.19	91	4424085	16.323	ppbv	100
67) sec-Butylbenzene	17.50	105	9832826	13.439	ppbv	100
69) p-Isopropyltoluene	17.85	119	7913849	13.956	ppbv	99
70) n-Butylbenzene	18.75	91	8687504	13.515	ppbv	100
71) 2-Chlorotoluene	15.65	91	6336095	14.690	ppbv	100
72) 4-Ethyltoluene	16.04	105	6716247	15.317	ppbv	100
73) 1,3,5-Trimethylbenzene	16.20	105	6345414	14.444	ppbv	97
74) 1,2,4-Trimethylbenzene	16.97	105	6214545	12.940	ppbv #	91
75) 1,3-Dichlorobenzene	17.21	146	3532508	12.396	ppbv	100
76) 1,4-Dichlorobenzene	17.35	146	3583364	13.552	ppbv	99
77) 1,2-Dichlorobenzene	18.03	146	3553678	12.925	ppbv	99
78) Hexachloro-1,3-Butadiene	23.58	225	1221454	11.890	ppbv	99
79) Naphthalene	22.45	128	6081844	15.572	ppbv	98
80) Naphthalene, 2-methyl-	25.14	142	2400923	23.104	ppbv	99
81) 1,2,4-Trichlorobenzene	22.18	180	2829756	14.386	ppbv	99

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

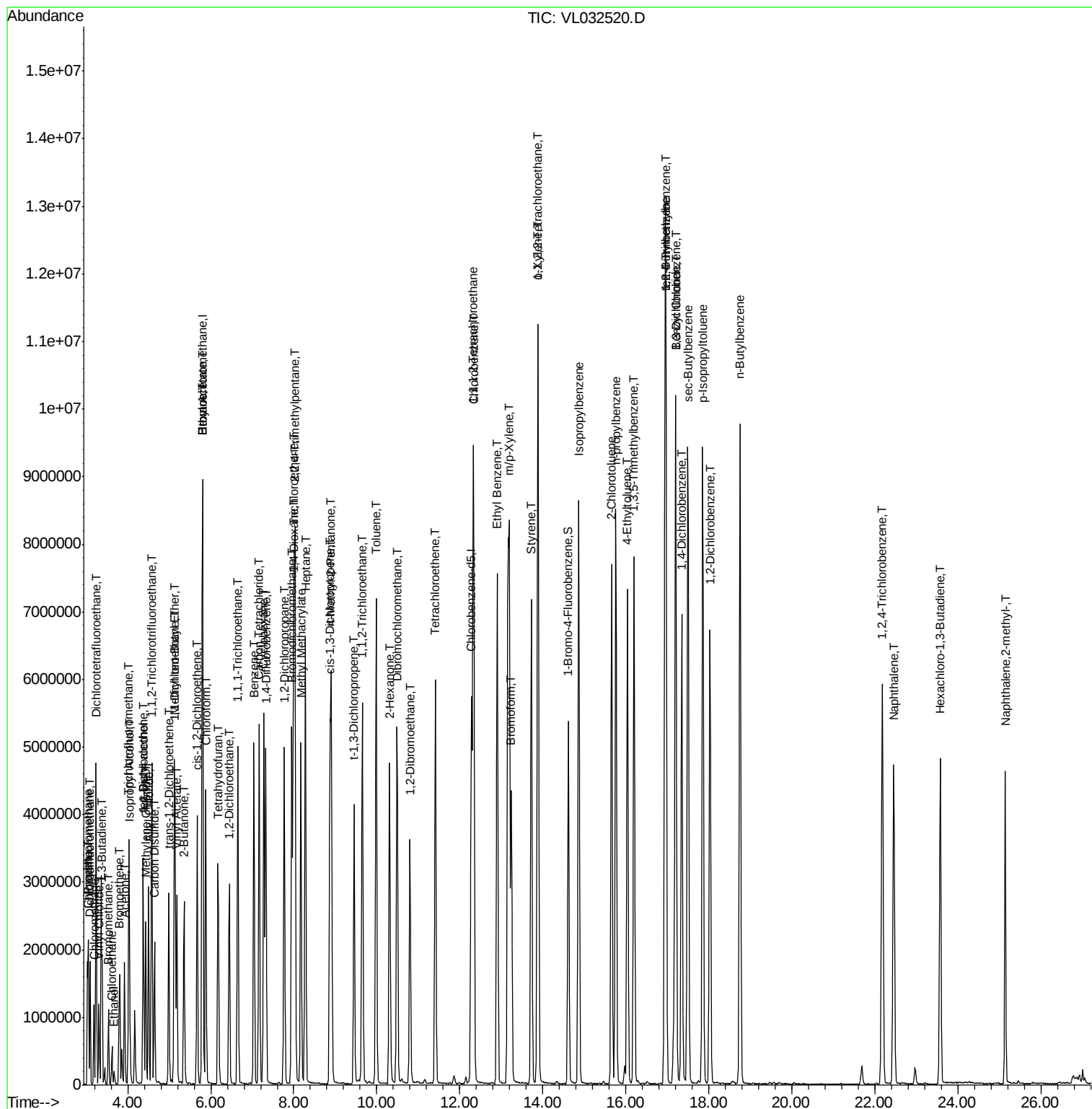
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092418\
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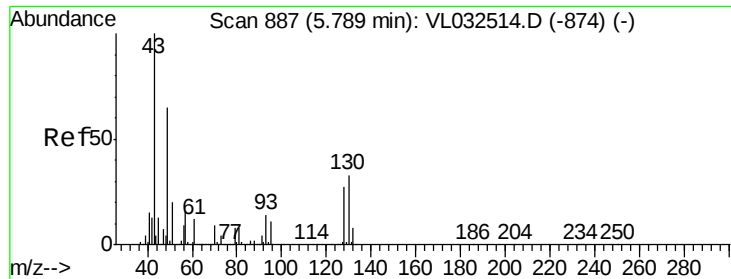
Instrument :
MSVOA_L
ClientSampleId :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 24 18:32:13 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1549515

Ion Ratio Lower Upper

49 100

128 42.6 20.7 62.1

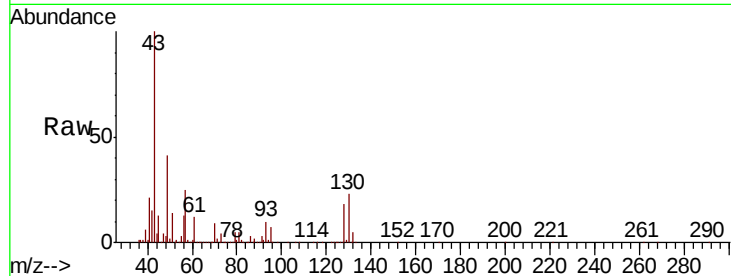
130 53.9 26.6 79.7

Manual Integrations

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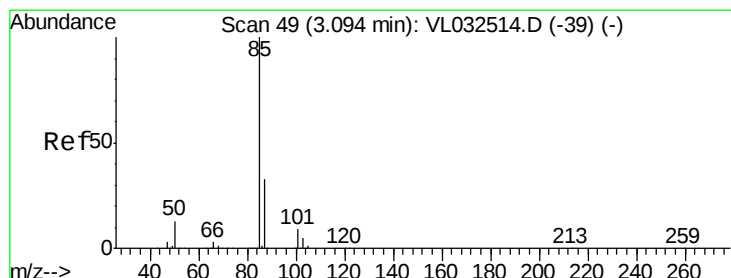
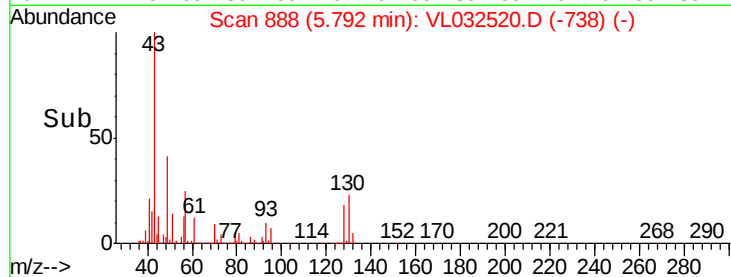
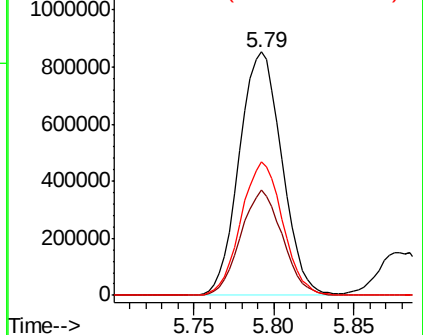
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 6.622 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032520.D

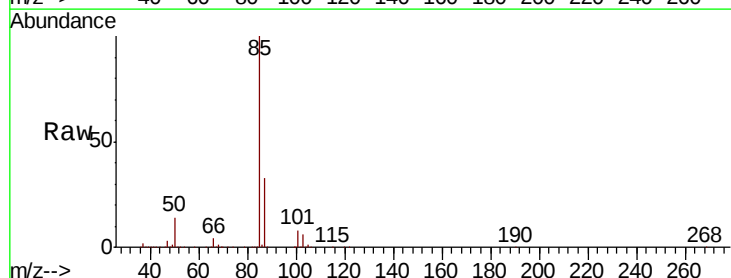
Acq: 24 Sep 2018 20:21

Tgt Ion: 85 Resp: 1312605

Ion Ratio Lower Upper

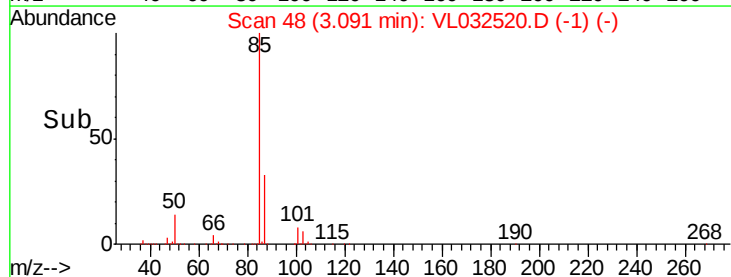
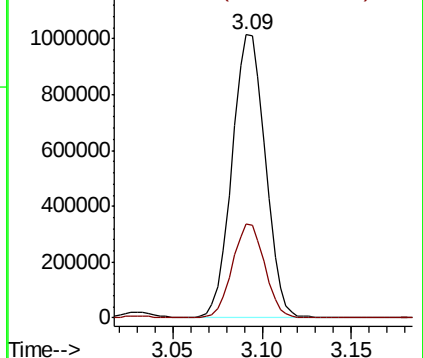
85 100

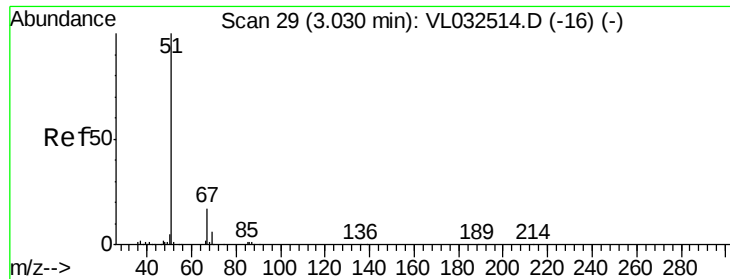
87 33.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.423 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1742517

Ion Ratio Lower Upper

51 100

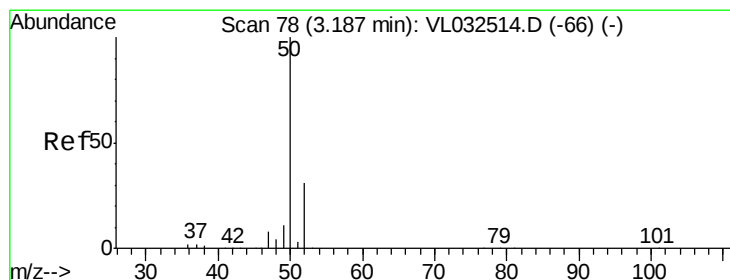
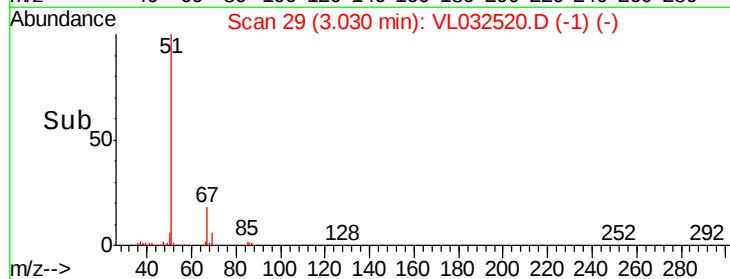
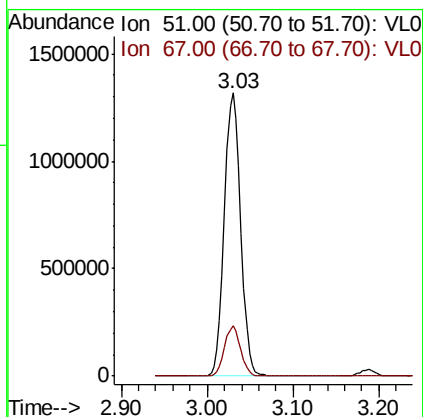
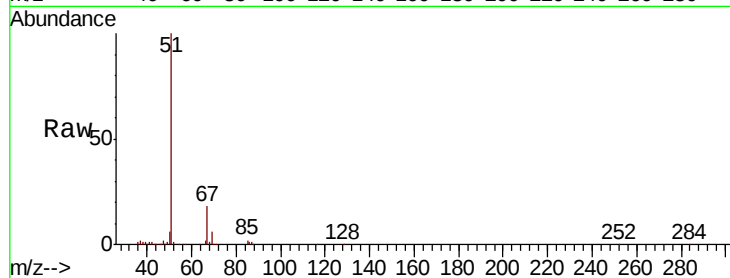
67 17.5 13.8 20.8

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#4

Chloromethane

Concen: 12.199 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032520.D

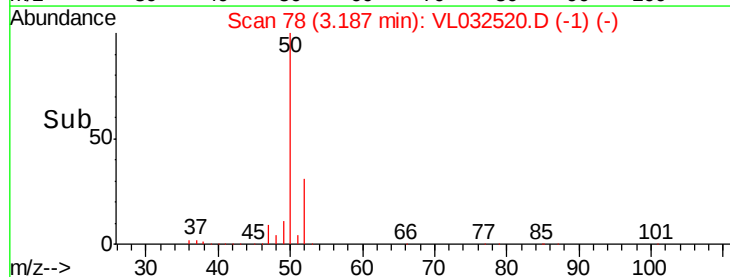
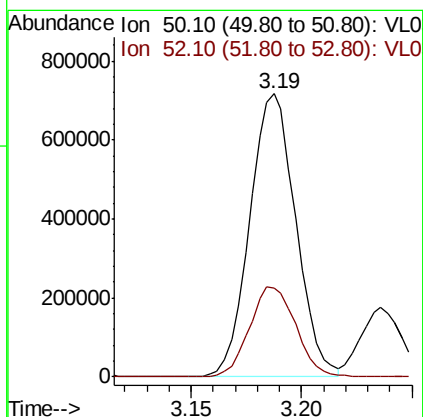
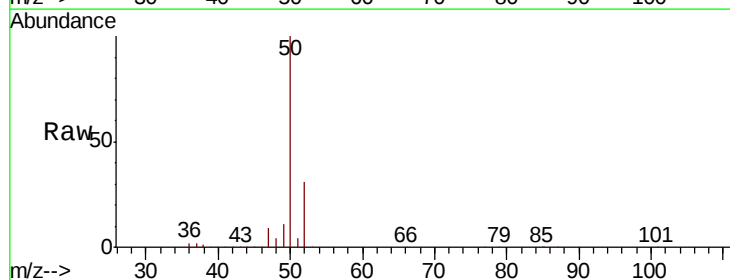
Acq: 24 Sep 2018 20:21

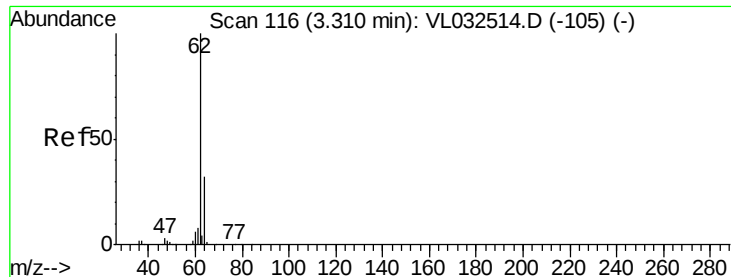
Tgt Ion: 50 Resp: 1036063

Ion Ratio Lower Upper

50 100

52 31.4 25.6 38.4





#5

Vinyl Chloride

Concen: 11.811 ppbv

RT: 3.31 min Scan# 115

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 990130

Ion Ratio Lower Upper

62 100

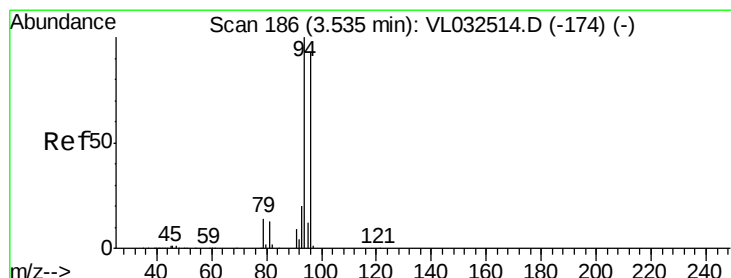
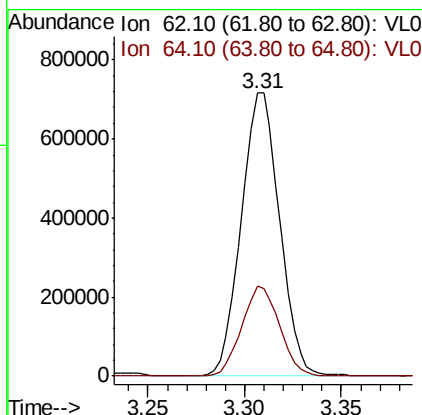
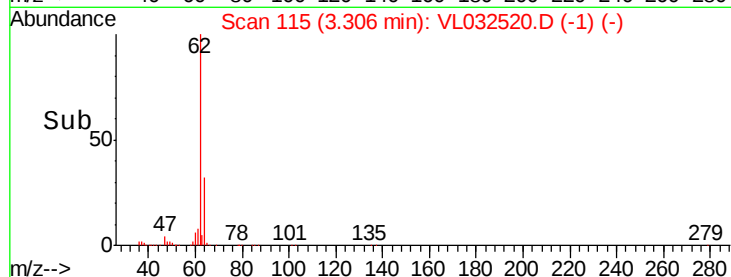
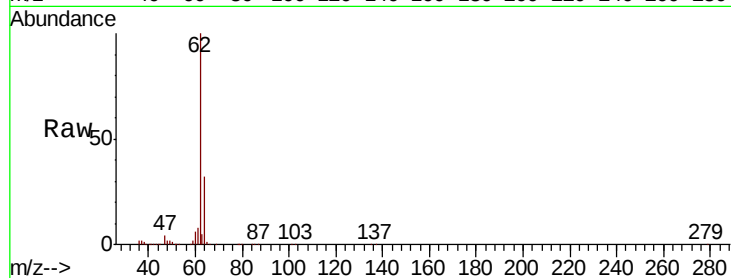
64 32.0 25.0 37.6

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#6

Bromomethane

Concen: 13.152 ppbv

RT: 3.53 min Scan# 186

Delta R.T. -0.01 min

Lab File: VL032520.D

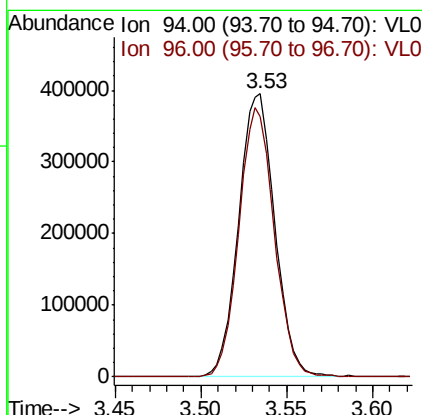
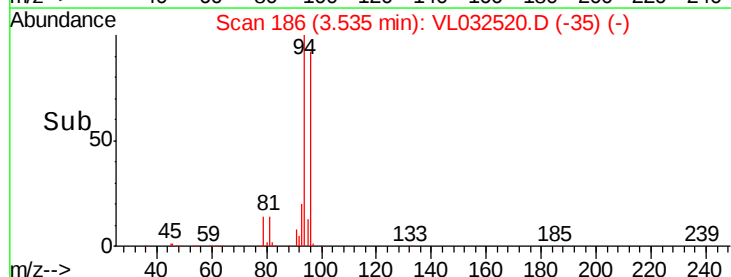
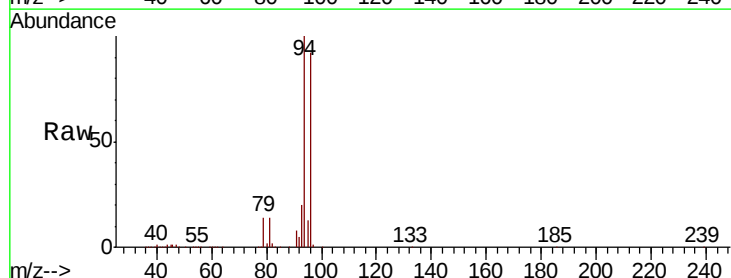
Acq: 24 Sep 2018 20:21

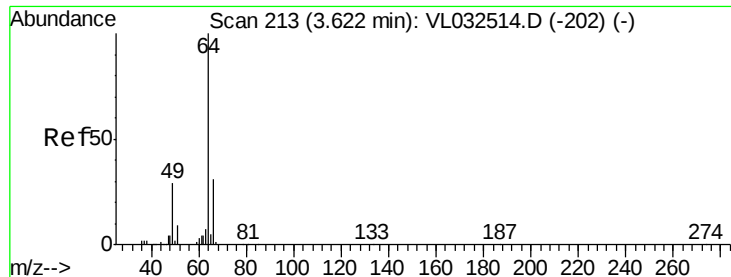
Tgt Ion: 94 Resp: 578732

Ion Ratio Lower Upper

94 100

96 91.9 72.8 109.2





#7

Chloroethane

Concen: 12.765 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

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Tot Ion: 64 Resp: 370367

Ion Ratio Lower Upper

64 100

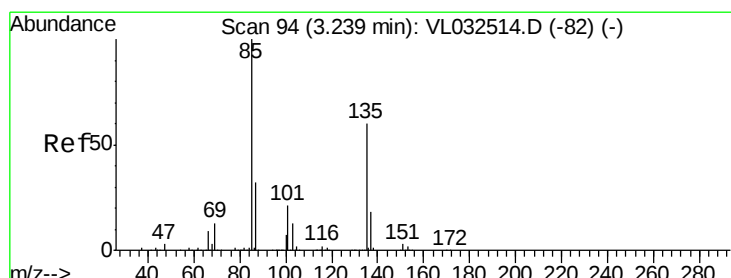
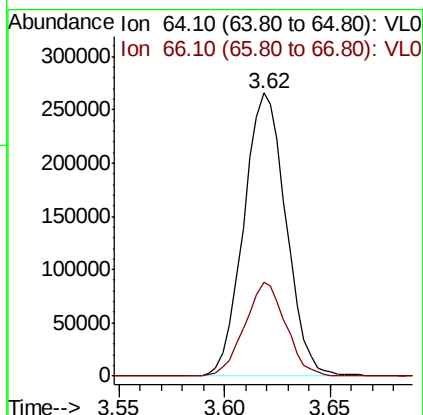
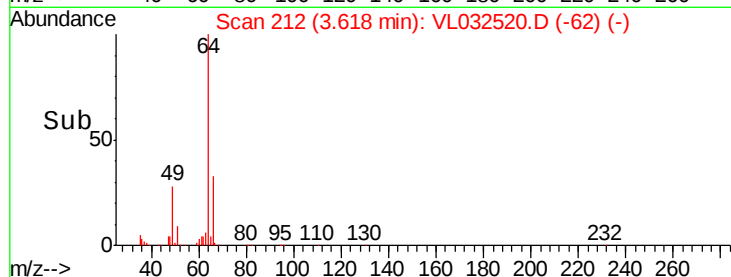
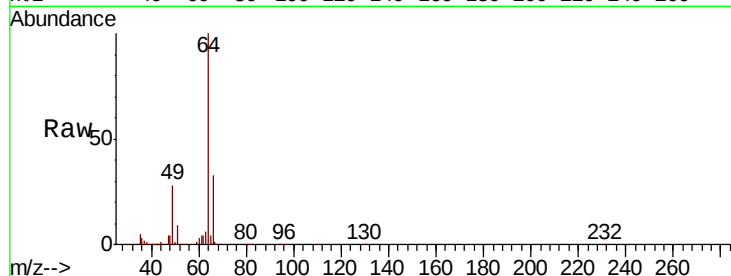
66 33.4 25.8 38.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 11.201 ppbv

RT: 3.24 min Scan# 93

Delta R.T. -0.02 min

Lab File: VL032520.D

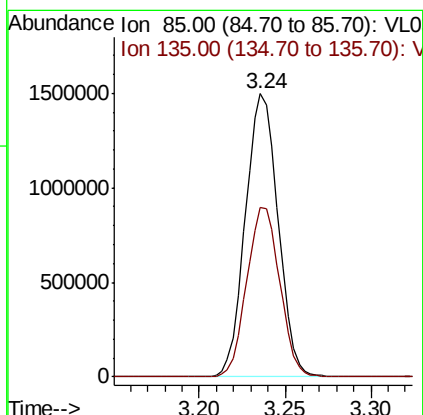
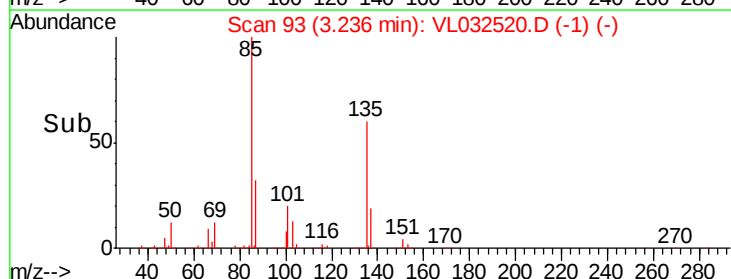
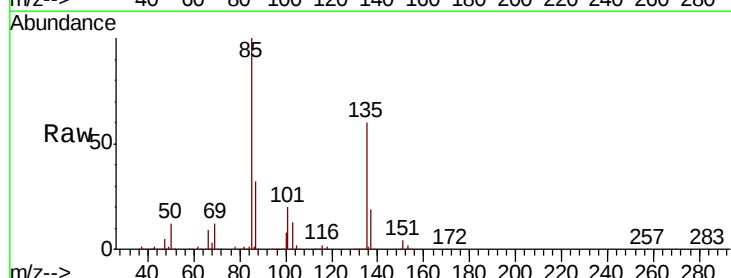
Acq: 24 Sep 2018 20:21

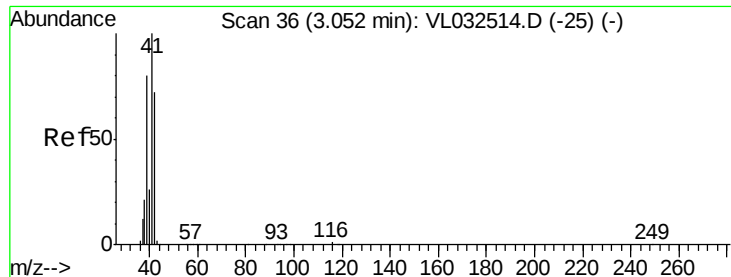
Tgt Ion: 85 Resp: 1970498

Ion Ratio Lower Upper

85 100

135 60.7 48.6 72.8





#9

Propene

Concen: 14.286 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 808295

Ion Ratio Lower Upper

41 100

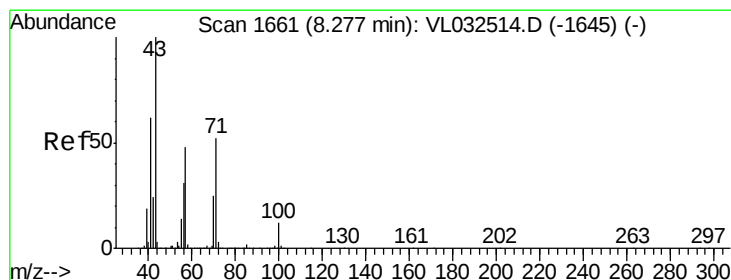
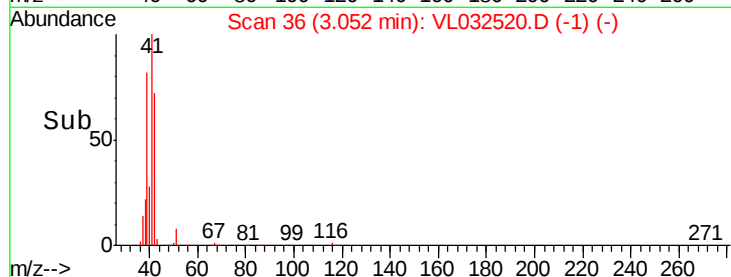
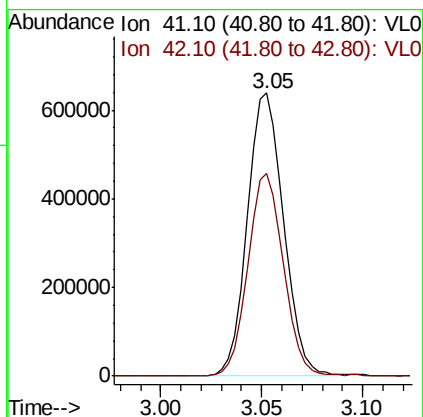
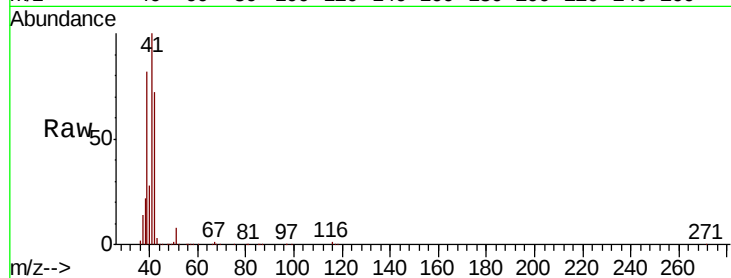
42 70.5 56.6 84.8

Manual Integrations

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#10

Heptane

Concen: 15.473 ppbv

RT: 8.28 min Scan# 1662

Delta R.T. -0.02 min

Lab File: VL032520.D

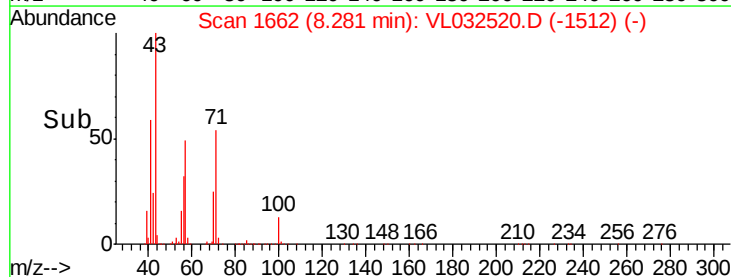
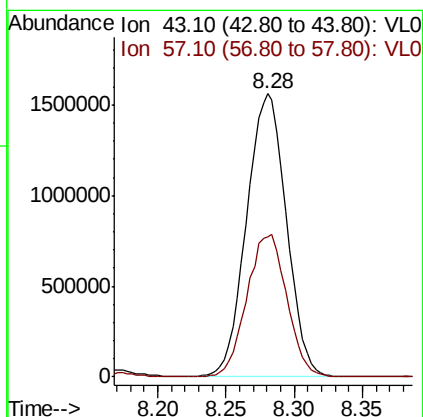
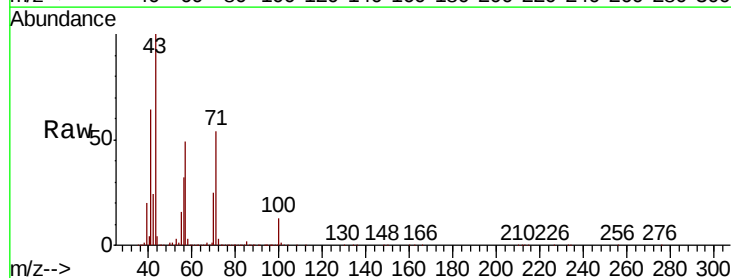
Acq: 24 Sep 2018 20:21

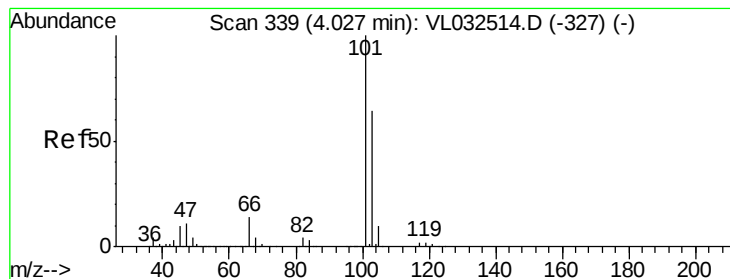
Tgt Ion: 43 Resp: 3140658

Ion Ratio Lower Upper

43 100

57 50.8 39.6 59.4





#11

Trichlorofluoromethane

Concen: 12.675 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 2265227

Ion Ratio Lower Upper

101 100

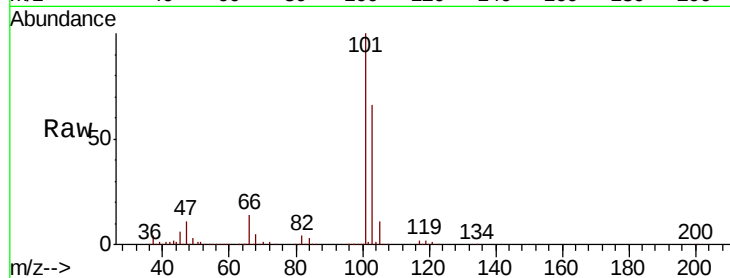
103 65.9 52.8 79.2

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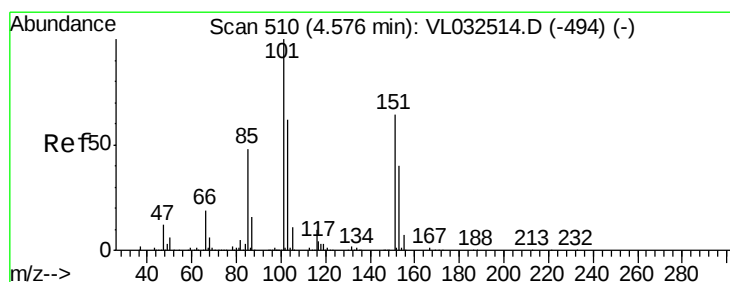
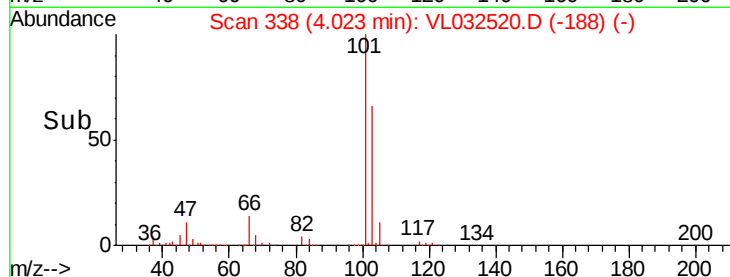
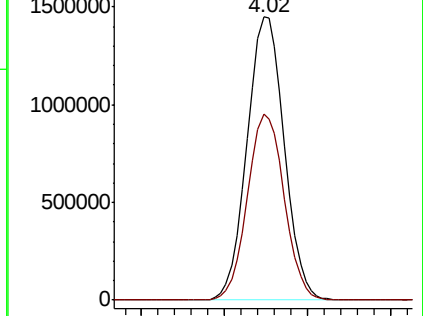
apatel

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 15.206 ppbv

RT: 4.58 min Scan# 510

Delta R.T. -0.02 min

Lab File: VL032520.D

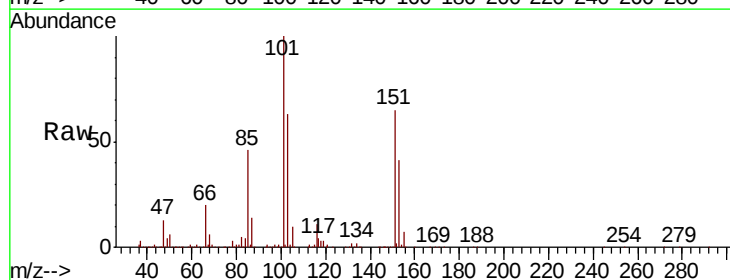
Acq: 24 Sep 2018 20:21

Tgt Ion:101 Resp: 1841627

Ion Ratio Lower Upper

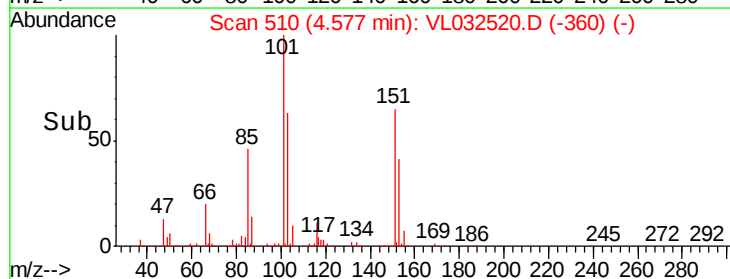
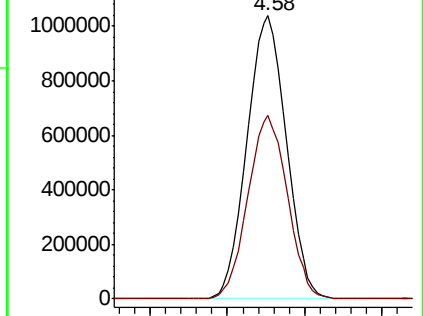
101 100

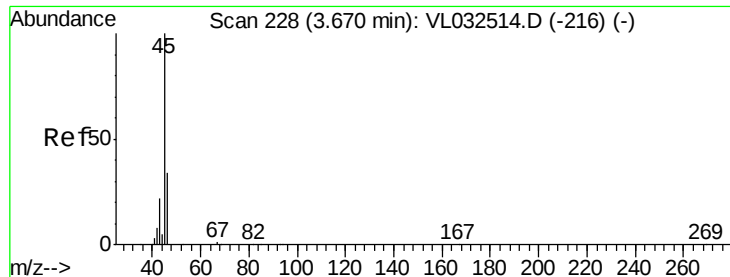
151 65.2 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





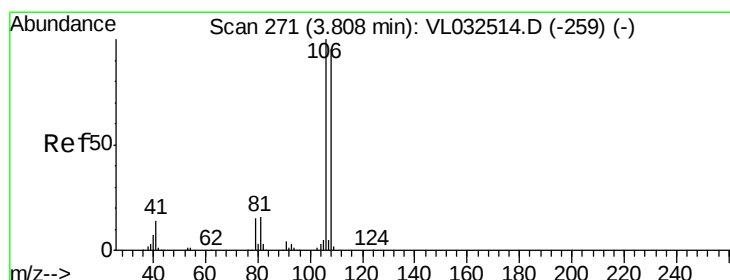
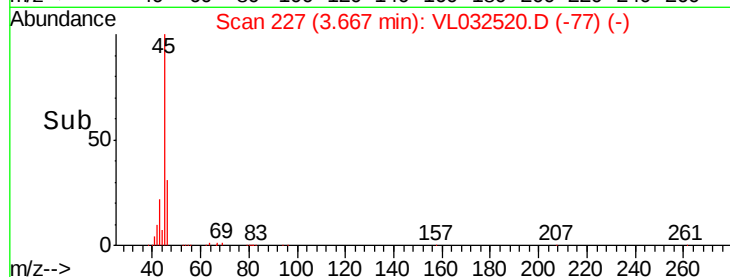
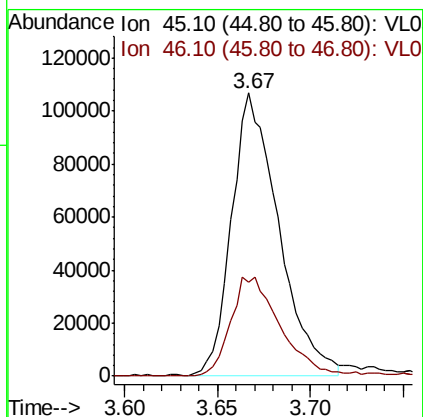
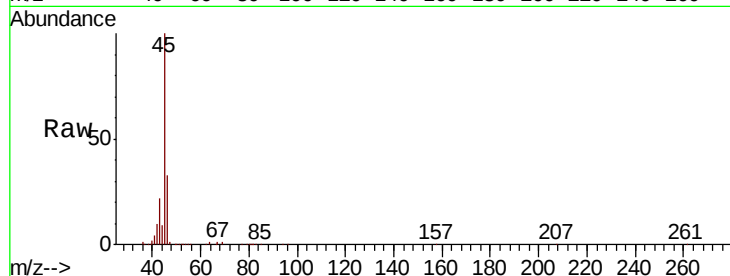
#13
Ethanol
Concen: 10.629 ppbv
RT: 3.67 min Scan# 227
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	Resp	187460
Ion Ratio	100	Lower	Upper
46	38.4	14.2	56.8

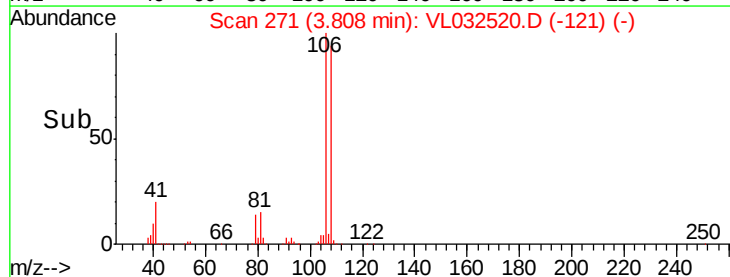
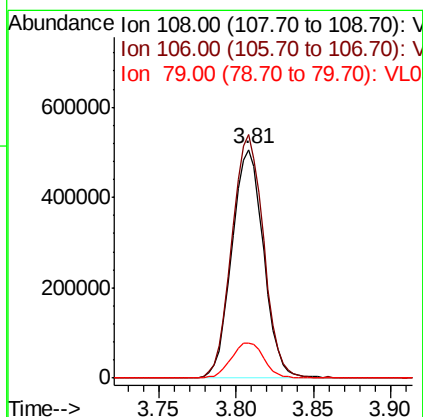
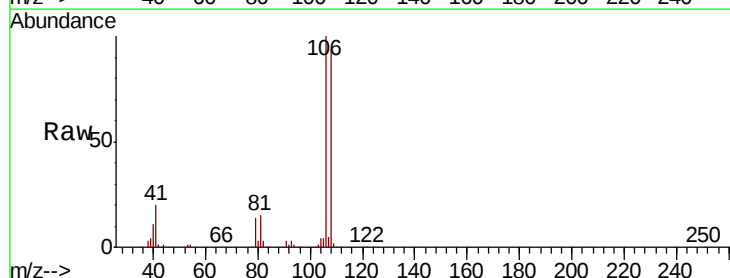
Manual Integrations
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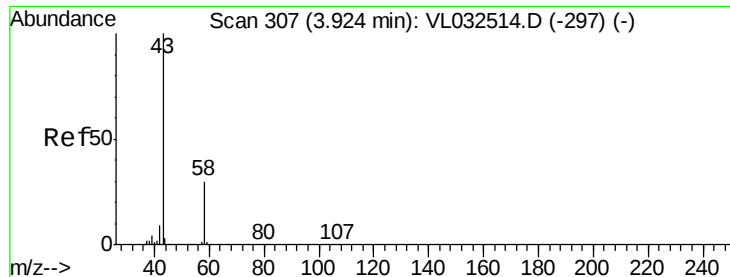
apatel
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#14
Bromoethene
Concen: 13.985 ppbv
RT: 3.81 min Scan# 271
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion	108	Resp	717556
Ion Ratio	100	Lower	Upper
106	107.1	85.5	128.3
79	16.2	13.0	19.6





#15

Acetone

Concen: 12.530 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1748350

Ion Ratio Lower Upper

43 100

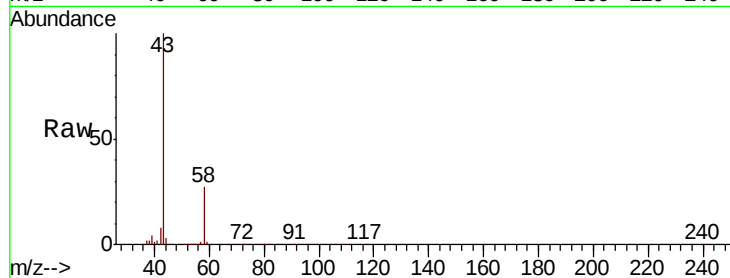
58 28.0 22.6 33.8

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

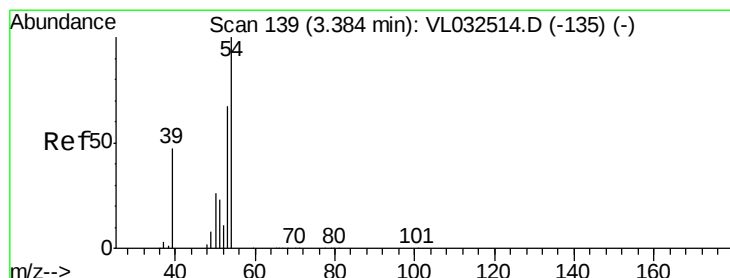
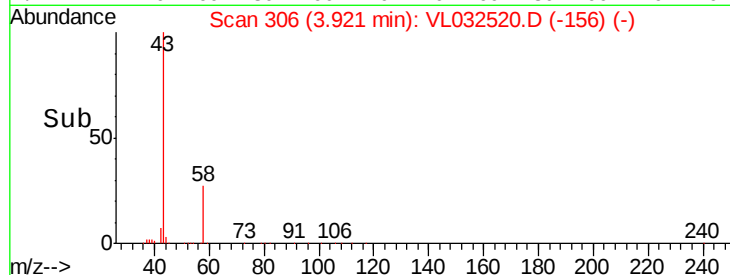
3.92

1000000

500000

0

Time-->



#16

1,3-Butadiene

Concen: 10.973 ppbv

RT: 3.38 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL032520.D

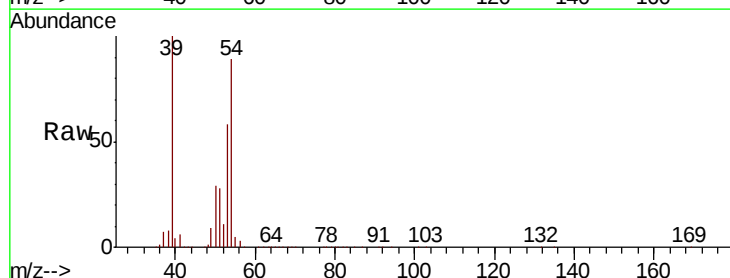
Acq: 24 Sep 2018 20:21

Tgt Ion: 39 Resp: 720485

Ion Ratio Lower Upper

39 100

54 108.7 80.8 121.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.38

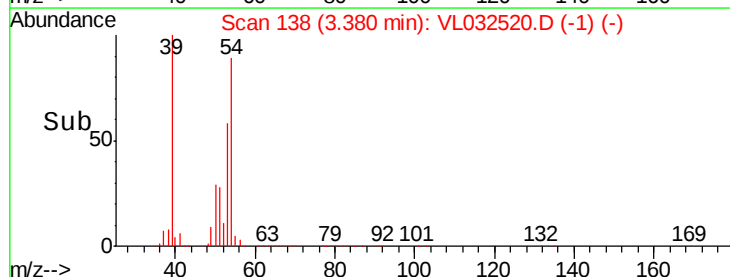
600000

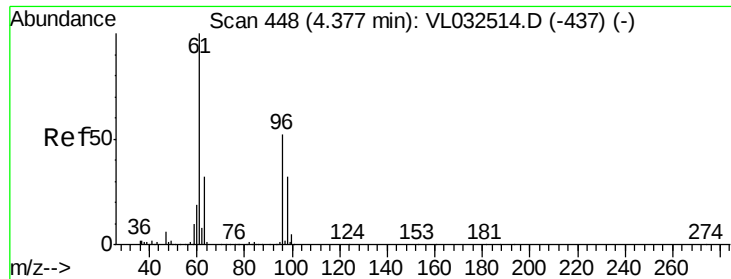
400000

200000

0

Time-->





#17

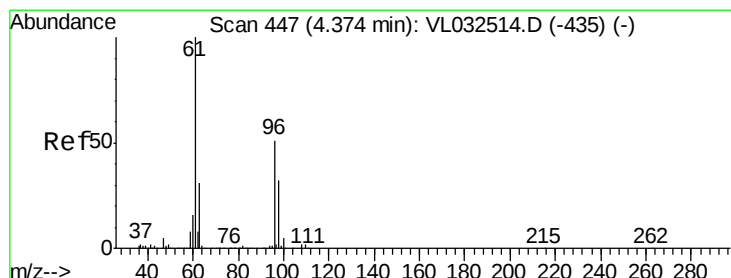
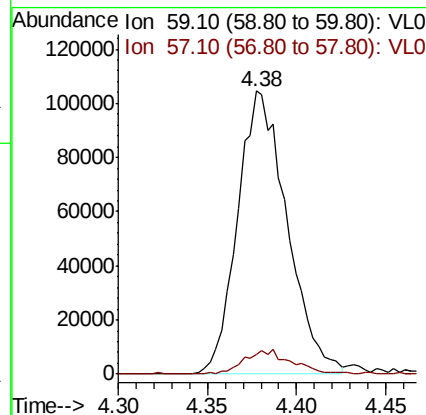
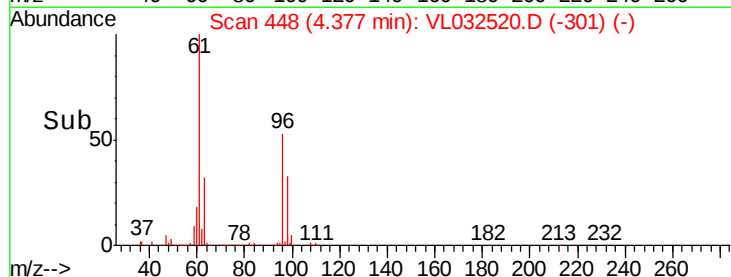
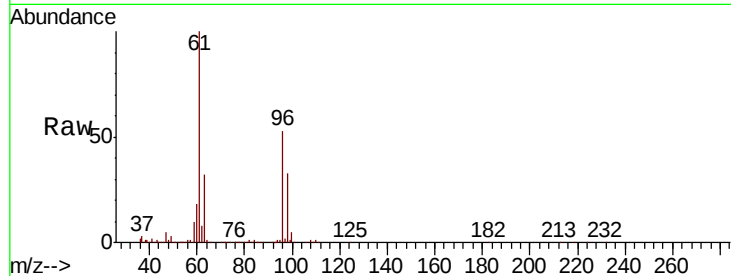
tert-Butyl alcohol
Concen: 9.433 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.03 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.5	0.0	0.0#

Manual Integrations
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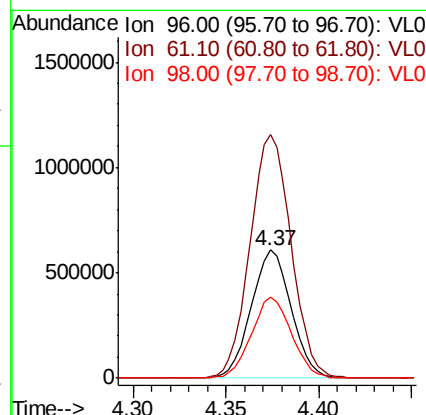
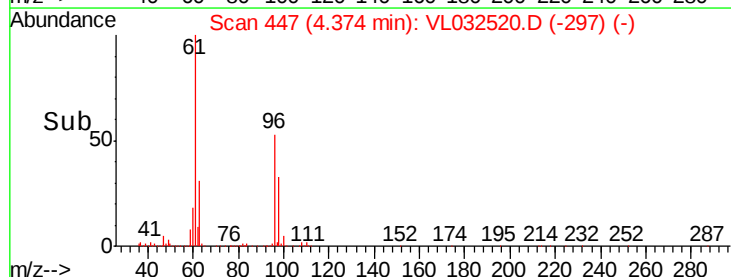
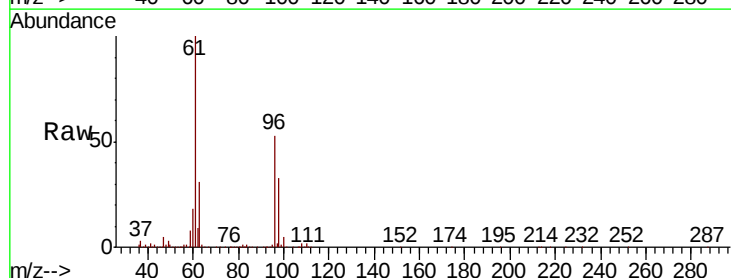
apatel
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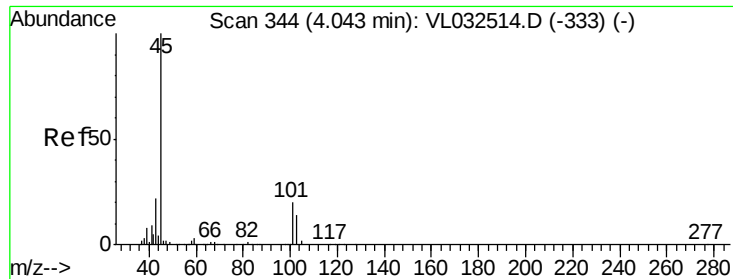


#18

1,1-Dichloroethene
Concen: 16.485 ppbv
RT: 4.37 min Scan# 447
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	190.0	159.2	238.8
98	62.9	51.0	76.4





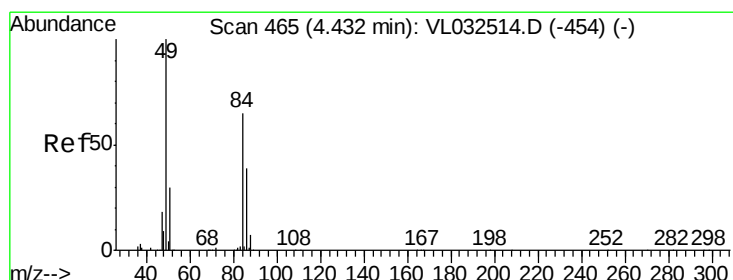
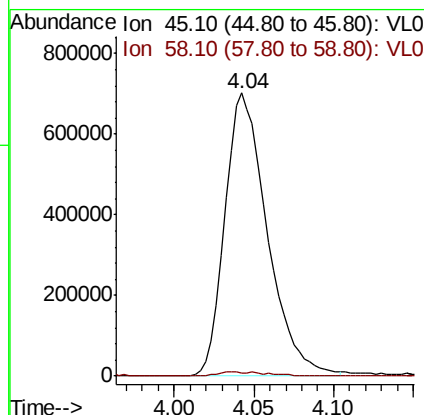
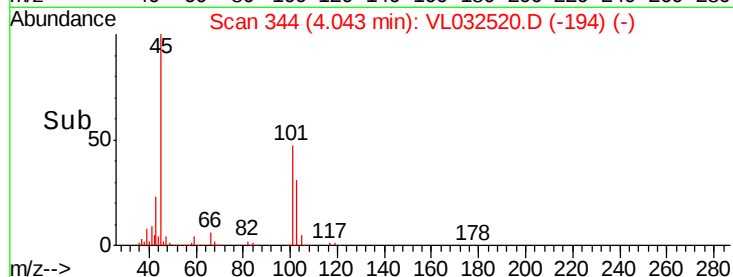
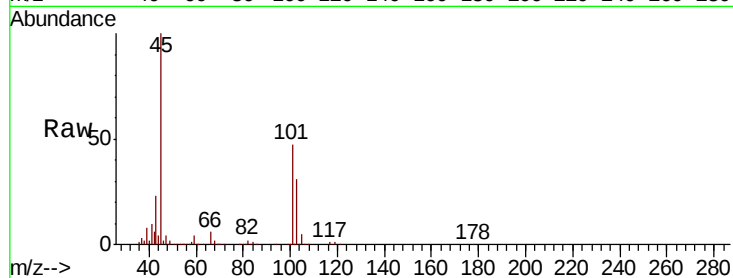
#19
Isopropyl Alcohol
Concen: 13.776 ppbv
RT: 4.04 min Scan# 344
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 1261029
Ion Ratio Lower Upper
45 100
58 2.1 2.0 3.0

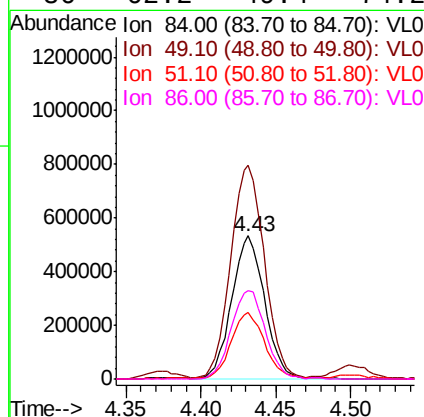
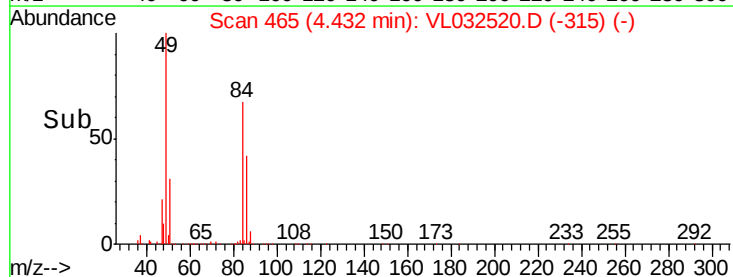
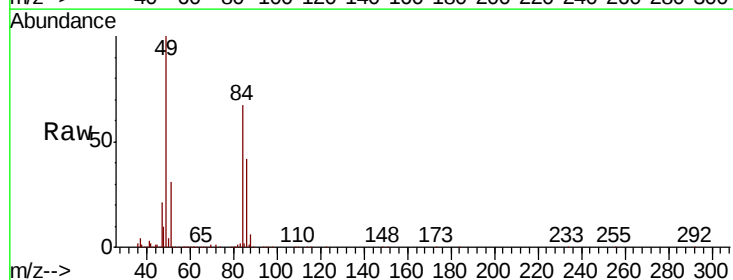
Manual Integrations
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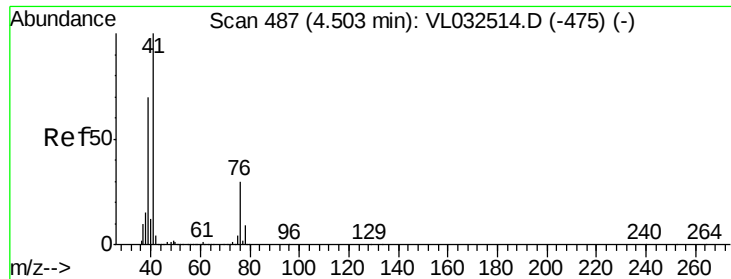
apatel
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#20
Methylene Chloride
Concen: 15.283 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion: 84 Resp: 813176
Ion Ratio Lower Upper
84 100
49 148.3 119.1 178.7
51 46.1 35.2 52.8
86 62.2 49.4 74.2





#21

Allvl Chloride

Concen: 17.564 ppbv

RT: 4.50 min Scan# 486

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

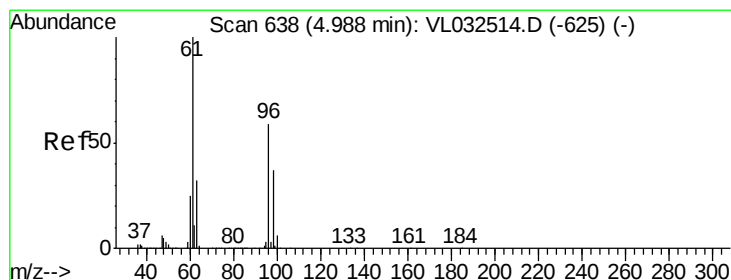
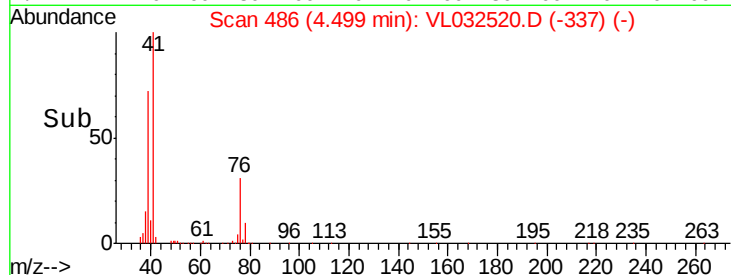
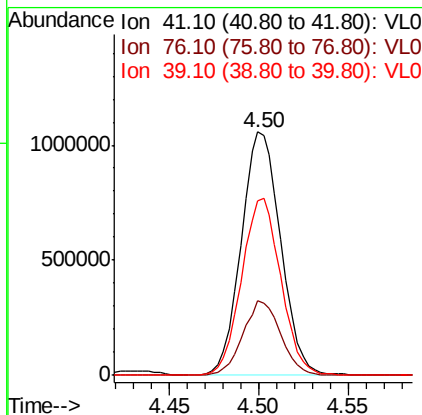
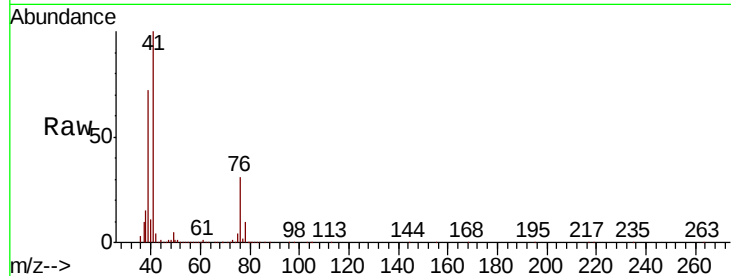
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	1627780
Ion	Ratio	Lower	Upper
41	100		
76	29.7	23.6	35.4
39	72.8	57.7	86.5

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 14.883 ppbv

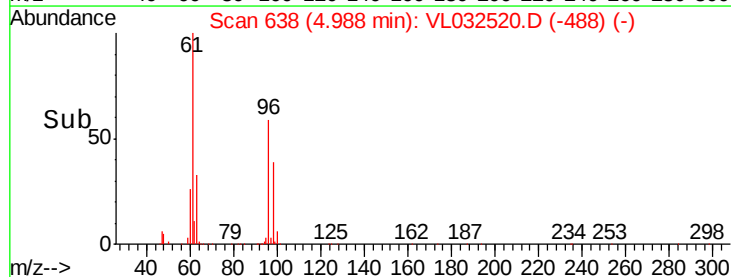
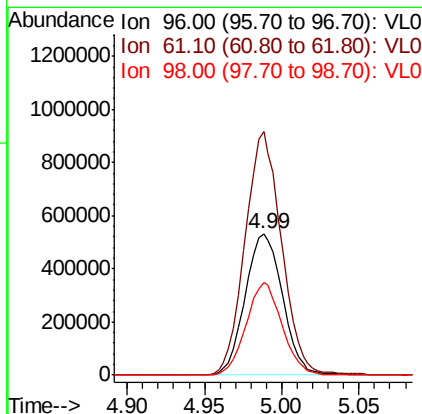
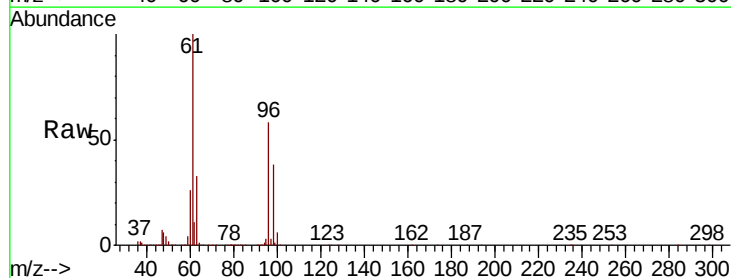
RT: 4.99 min Scan# 638

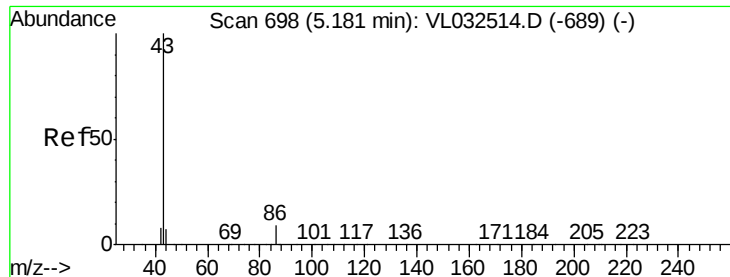
Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion:	96	Resp:	893803
Ion	Ratio	Lower	Upper
96	100		
61	171.8	136.2	204.4
98	65.6	50.4	75.6





#23

Vinyl Acetate

Concen: 15.915 ppbv

RT: 5.18 min Scan# 698

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3681013

Ion Ratio Lower Upper

43 100

86 7.8 5.9 8.9

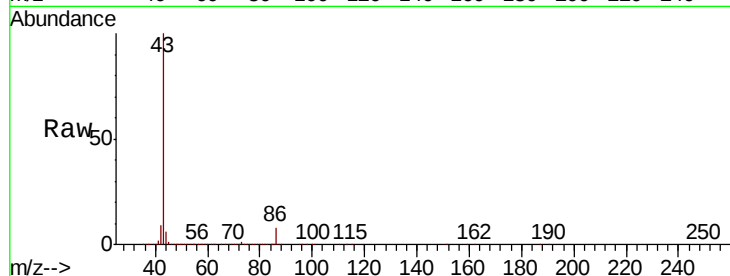
42 9.4 6.9 10.3

44 5.6 4.6 7.0

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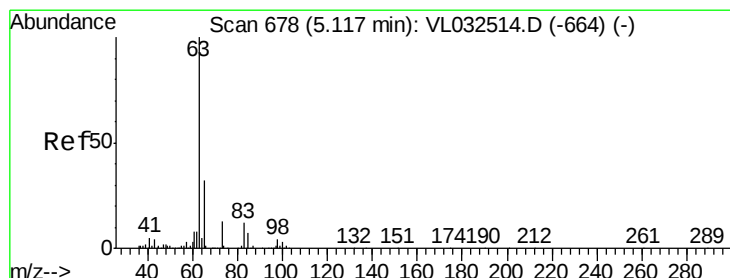
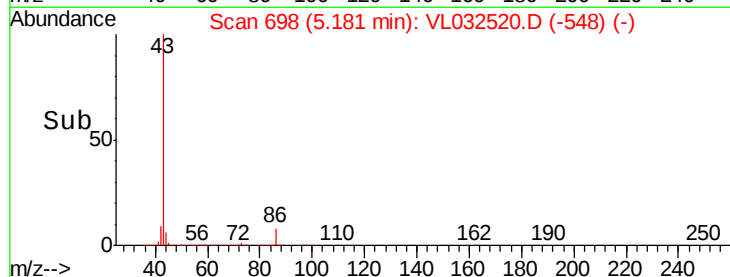
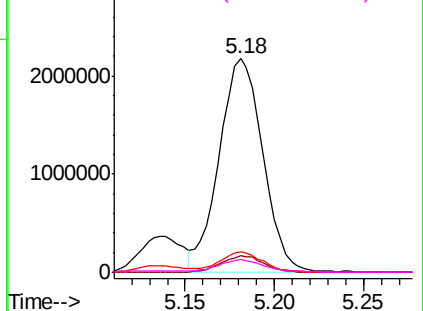


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 14.233 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

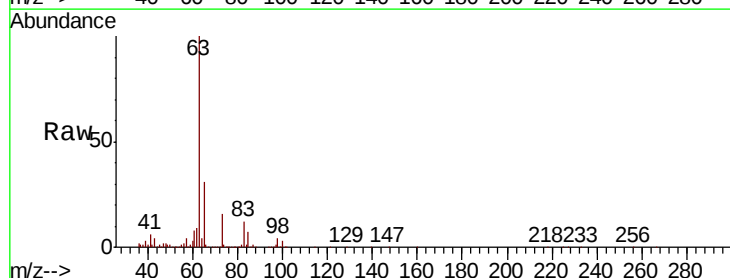
Tgt Ion: 63 Resp: 2712620

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.5

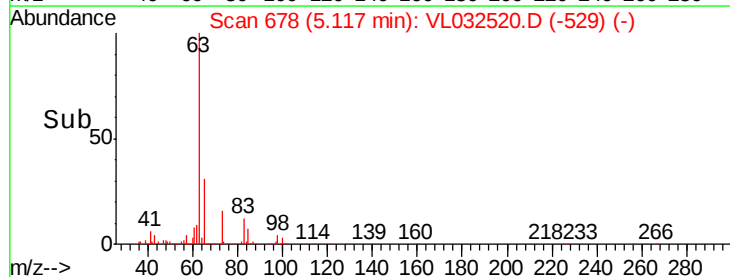
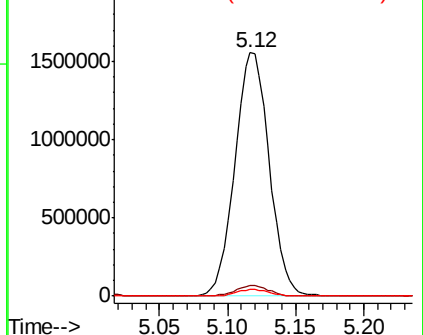
100 2.7 1.5 4.4

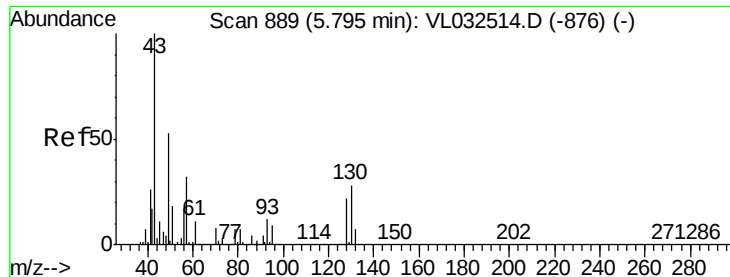


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





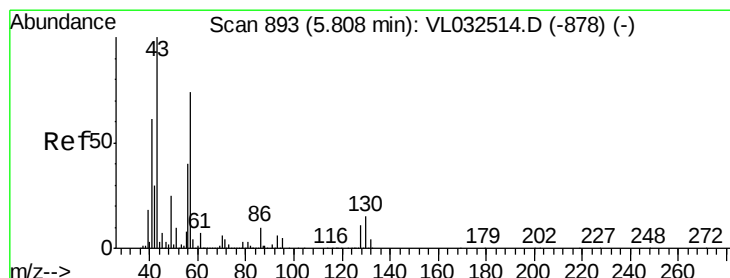
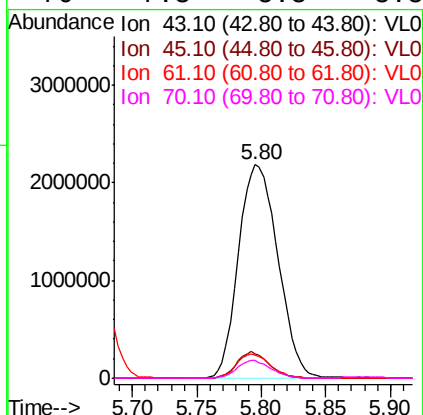
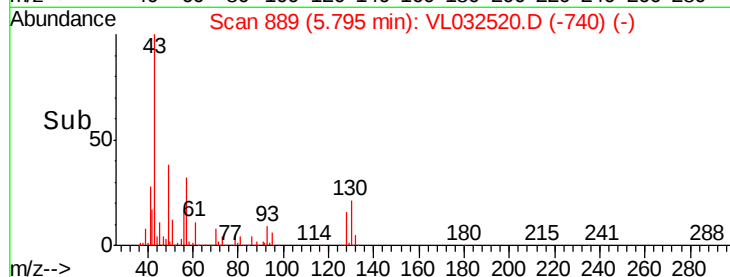
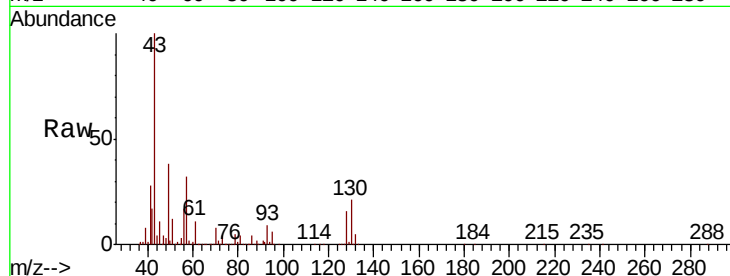
#25
Ethyl Acetate
Concen: 14.097 ppbv
RT: 5.80 min Scan# 889
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.0	12.0	
61	9.7	7.6	11.4	
70	7.3	5.8	8.8	

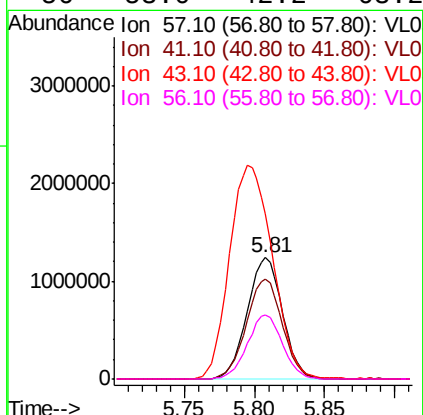
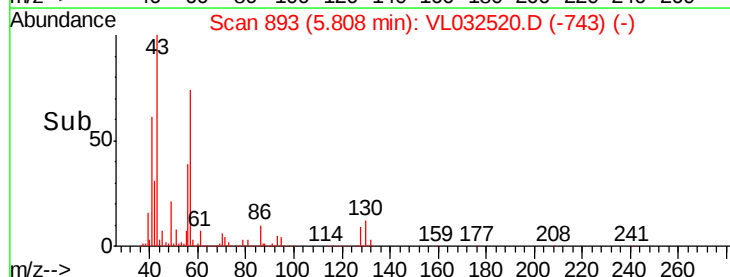
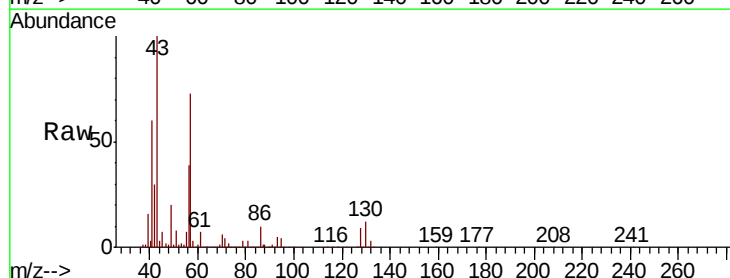
Manual Integrations
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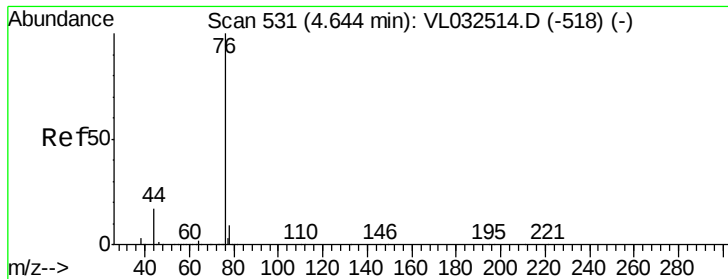
apatel
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#26
Hexane
Concen: 14.718 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	84.0	69.0	103.4	
43	214.6	172.1	258.1	
56	53.0	42.2	63.2	





#27

Carbon Disulfide

Concen: 17.844 ppbv

RT: 4.64 min Scan# 531

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2430426

Ion Ratio Lower Upper

76 100

44 17.1 14.0 21.0

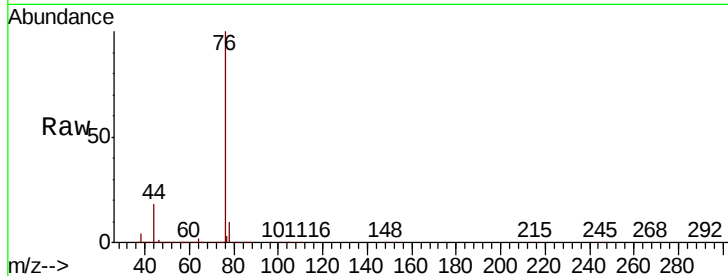
78 9.3 7.5 11.3

Manual Integrations

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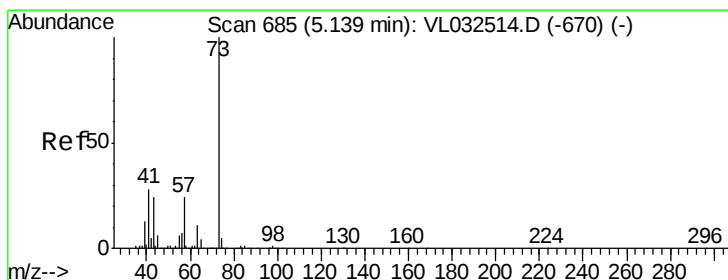
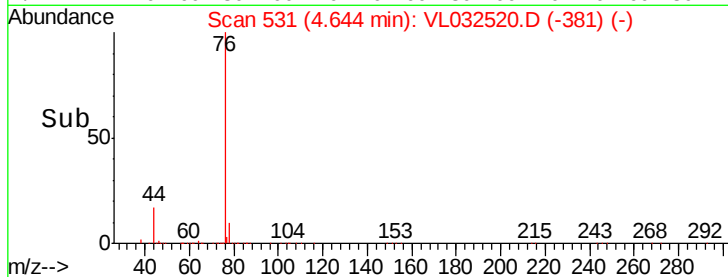
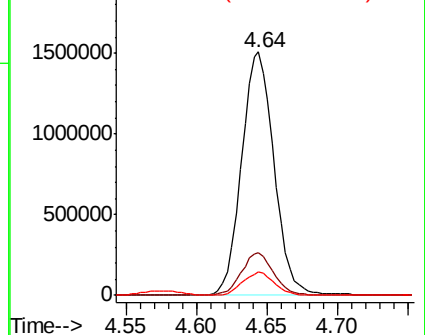
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 15.339 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL032520.D

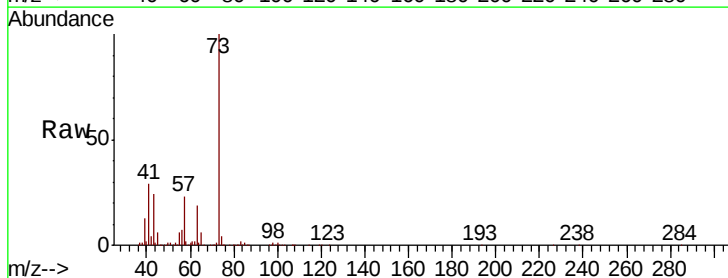
Acq: 24 Sep 2018 20:21

Tgt Ion: 73 Resp: 2778758

Ion Ratio Lower Upper

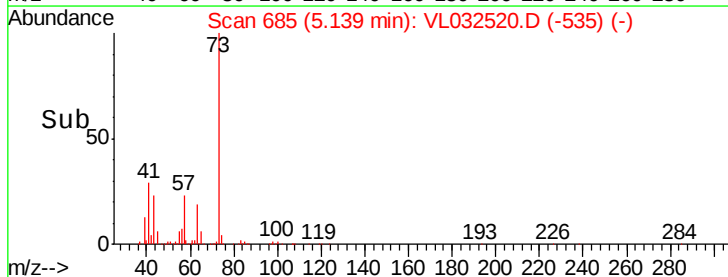
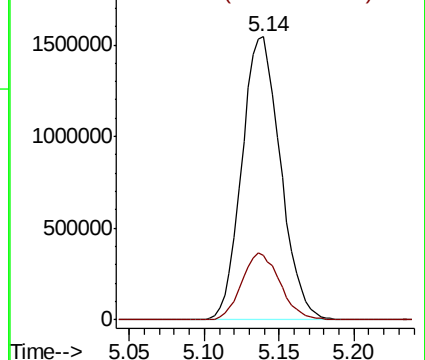
73 100

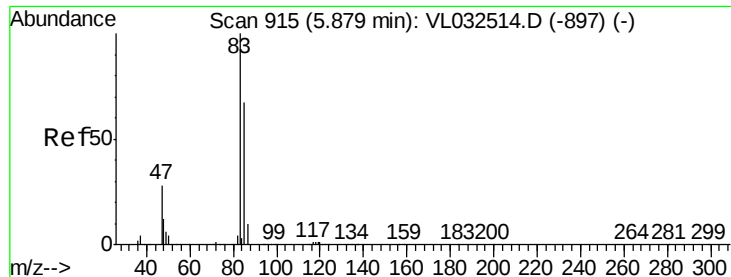
57 23.6 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





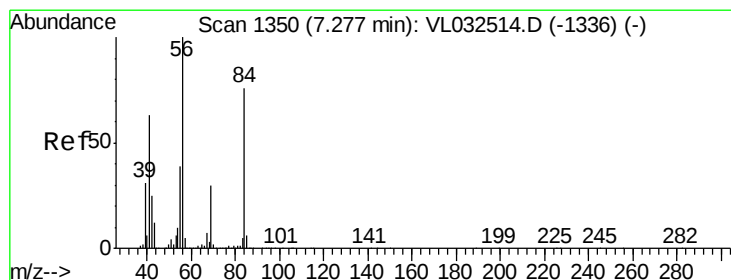
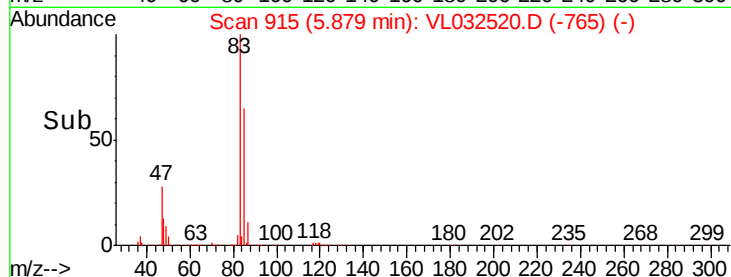
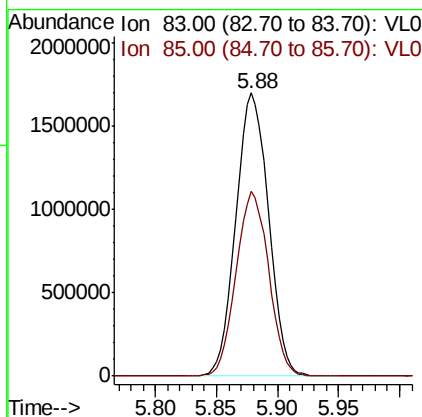
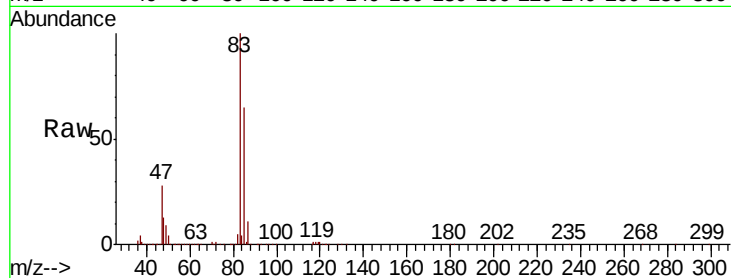
#29
Chloroform
Concen: 13.988 ppbv
RT: 5.88 min Scan# 915
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3146953
Ion Ratio Lower Upper
83 100
85 65.3 52.5 78.7

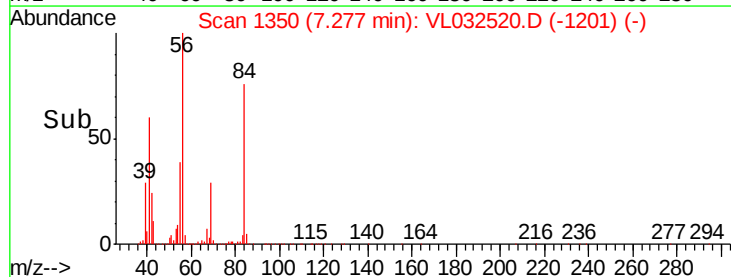
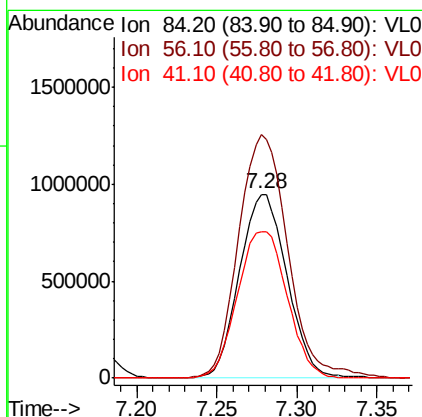
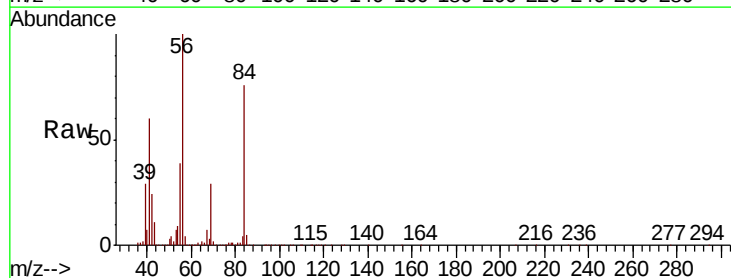
Manual Integrations
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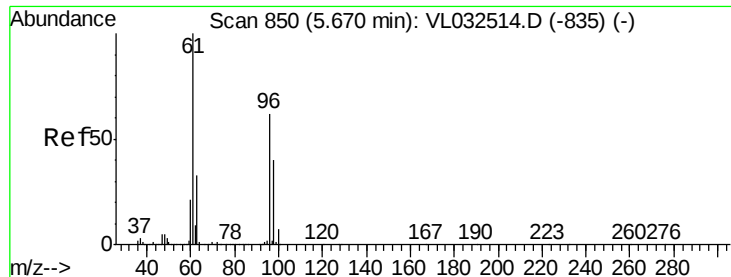
apatel
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#30
Cyclohexane
Concen: 17.728 ppbv
RT: 7.28 min Scan# 1350
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion: 84 Resp: 1915258
Ion Ratio Lower Upper
84 100
56 138.9 113.5 170.3
41 83.7 68.1 102.1





#31

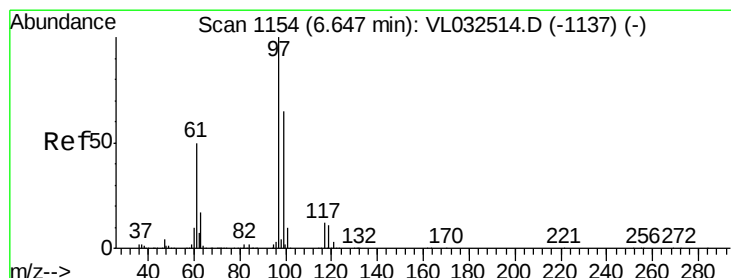
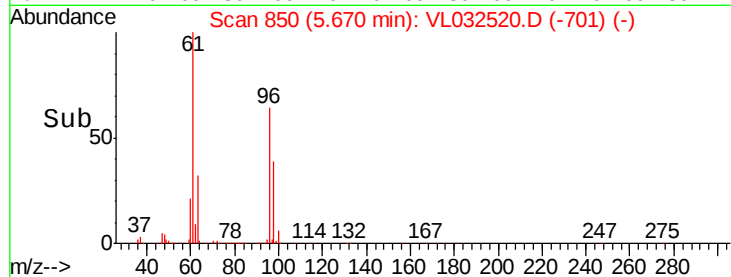
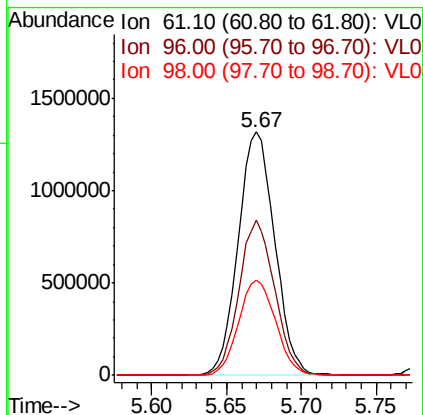
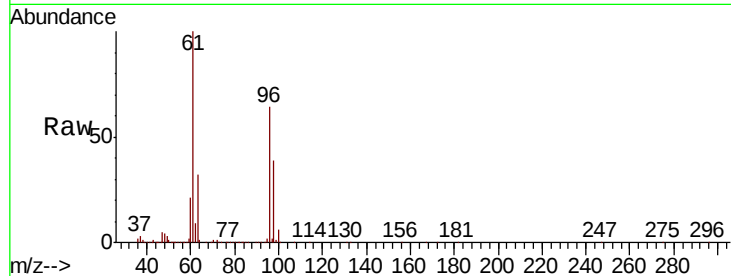
cis-1,2-Dichloroethene
 Concen: 16.796 ppbv
 RT: 5.67 min Scan# 850
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:	61	Resp:	2243941
Ion	Ratio	Lower	Upper
61	100		
96	63.6	49.2	73.8
98	39.1	30.7	46.1

Manual Integrations
 APPROVED

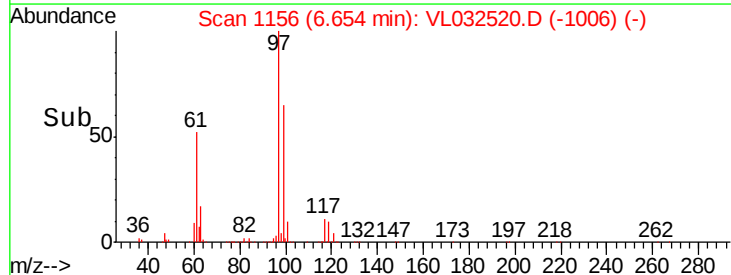
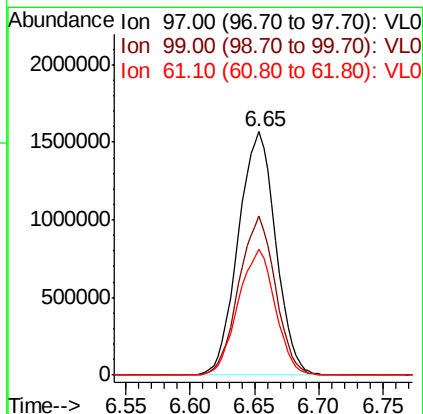
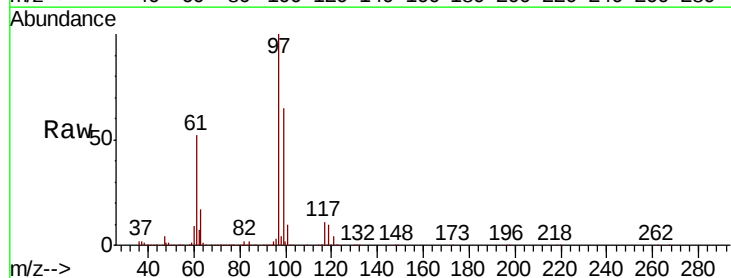
apatel
 9/26/2018 4:47:29 PM

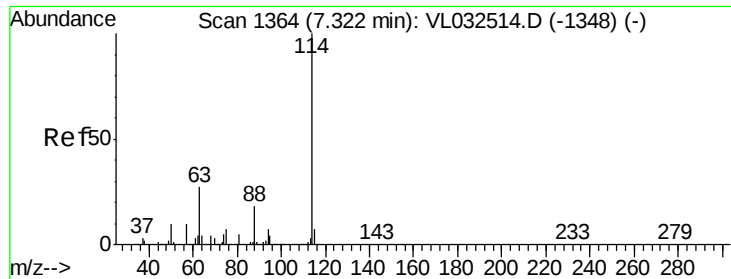


#32

1,1,1-Trichloroethane
 Concen: 15.128 ppbv
 RT: 6.65 min Scan# 1156
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion:	97	Resp:	3172205
Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.1	78.1
61	51.3	42.5	63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.33 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 3605694

Ion Ratio Lower Upper

114 100

63 27.6 22.2 33.4

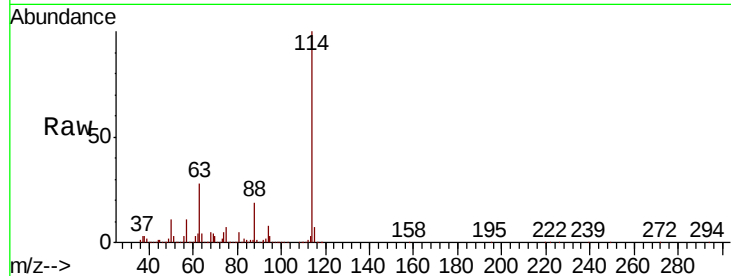
88 18.8 15.0 22.4

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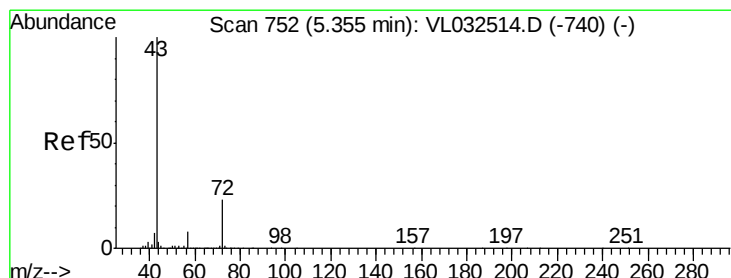
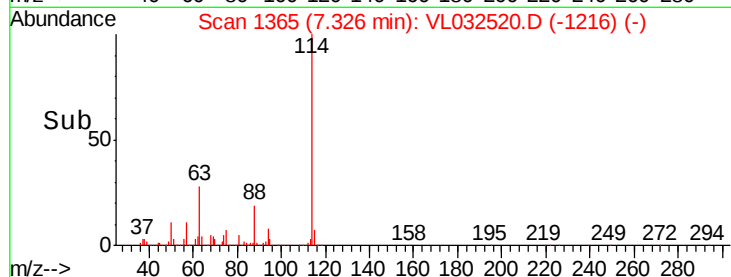
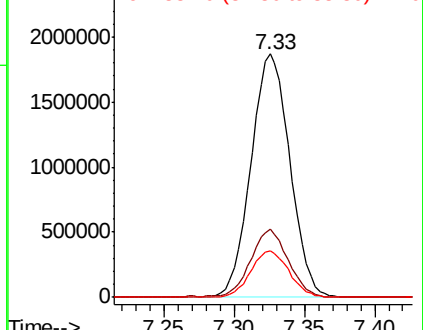
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 12.735 ppbv

RT: 5.35 min Scan# 752

Delta R.T. -0.02 min

Lab File: VL032520.D

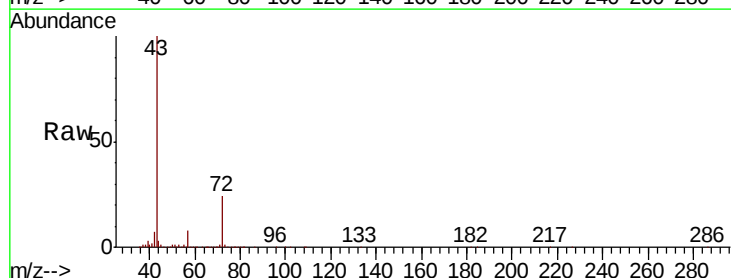
Acq: 24 Sep 2018 20:21

Tgt Ion: 43 Resp: 3049946

Ion Ratio Lower Upper

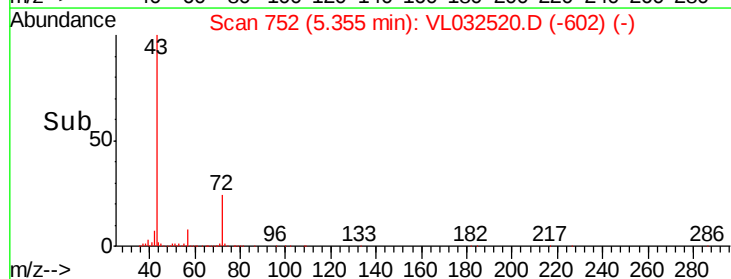
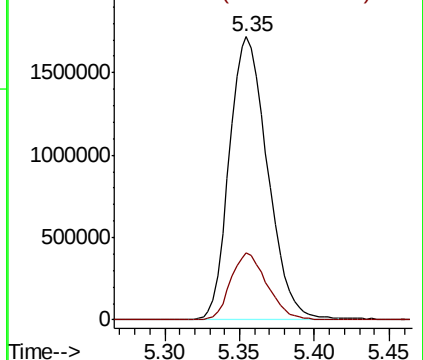
43 100

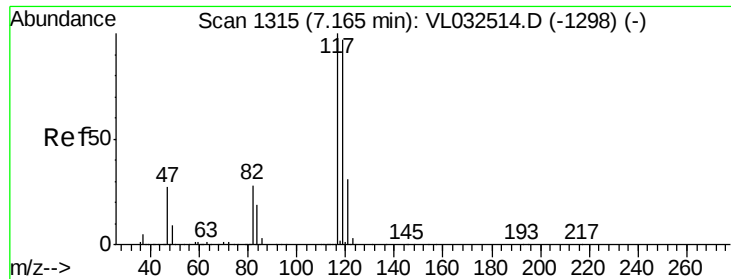
72 22.6 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 13.388 ppbv

RT: 7.16 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3244474

Ion Ratio Lower Upper

117 100

119 95.8 76.6 115.0

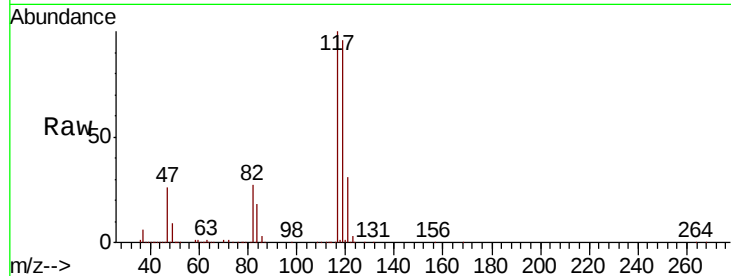
121 31.1 24.6 36.8

Manual Integrations

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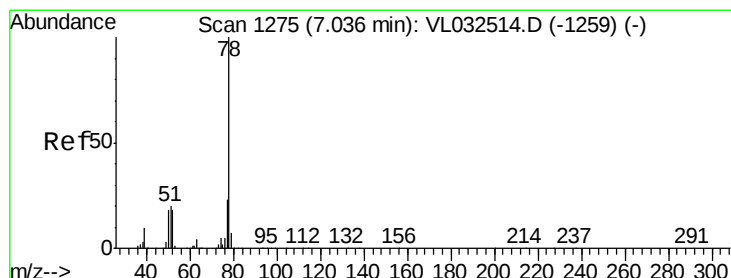
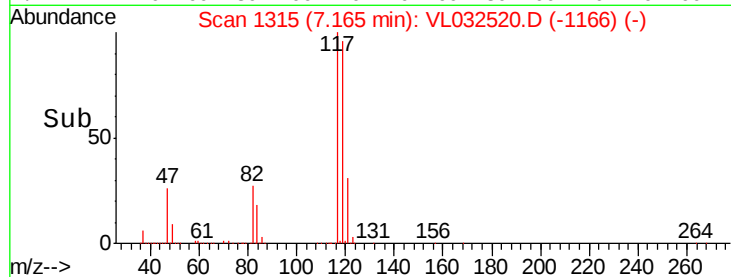
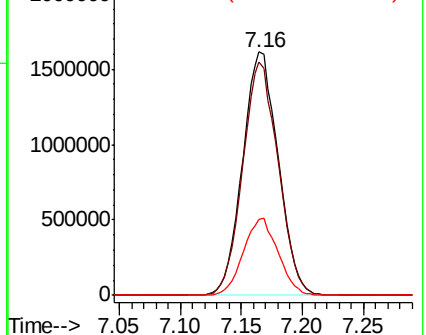
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 13.880 ppbv

RT: 7.04 min Scan# 1276

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

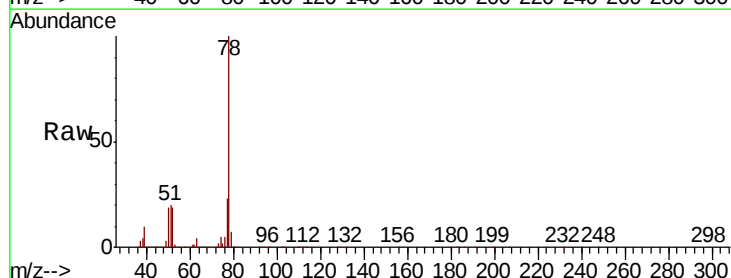
Tgt Ion: 78 Resp: 4258991

Ion Ratio Lower Upper

78 100

77 23.3 18.4 27.6

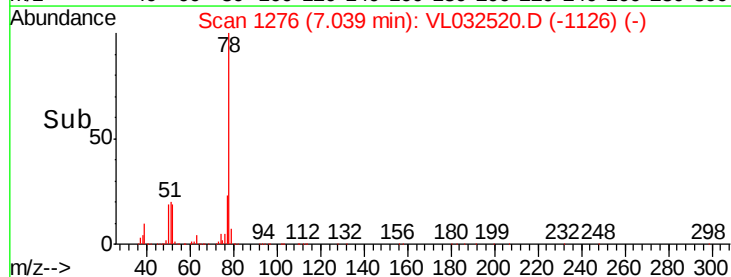
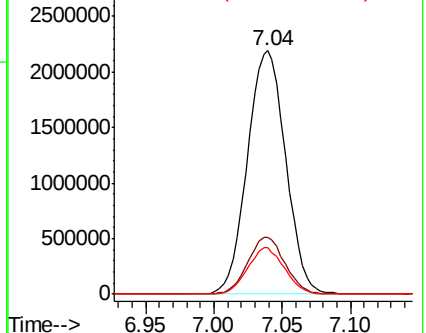
50 19.1 14.4 21.6

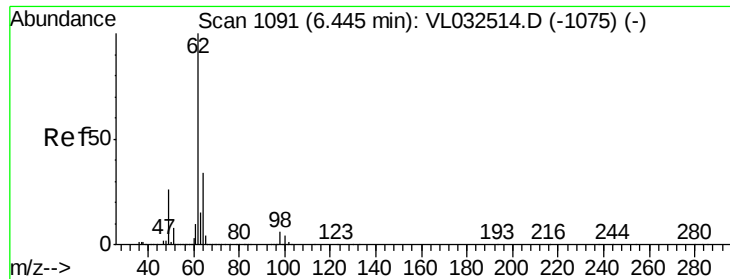


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





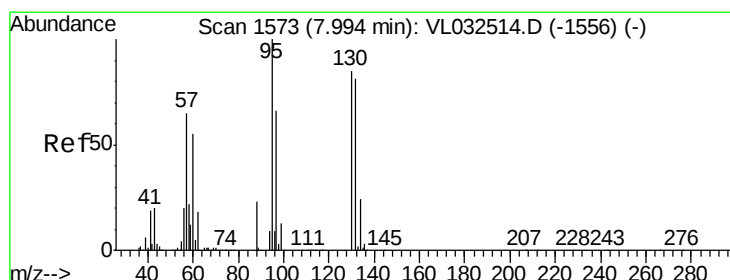
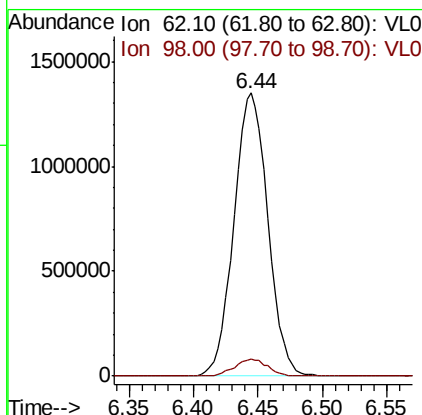
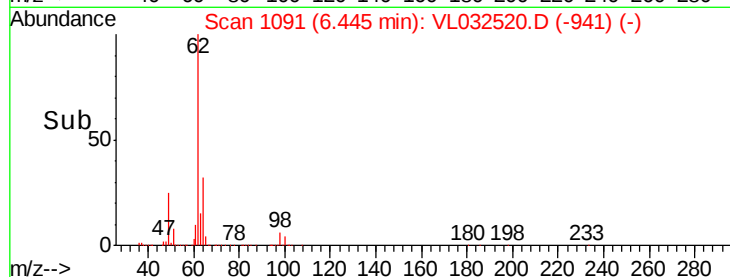
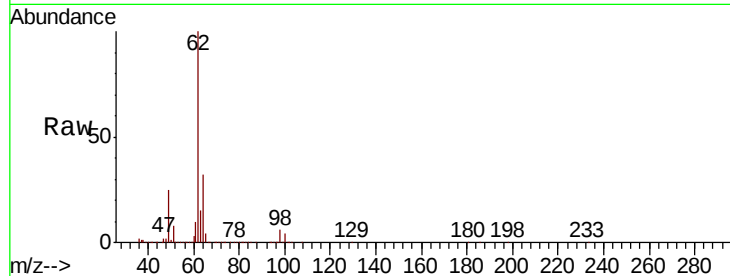
#37
 1,2-Dichloroethane
 Concen: 13.121 ppbv
 RT: 6.44 min Scan# 1091
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.0	7.6

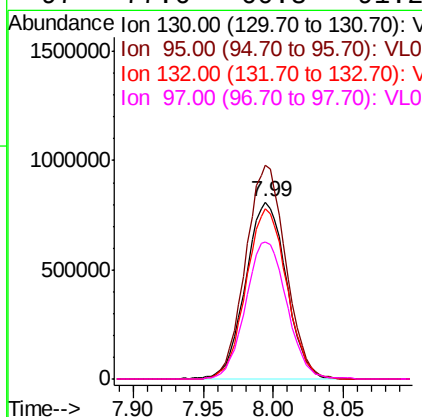
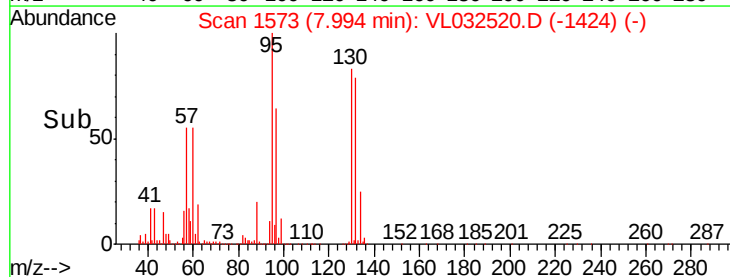
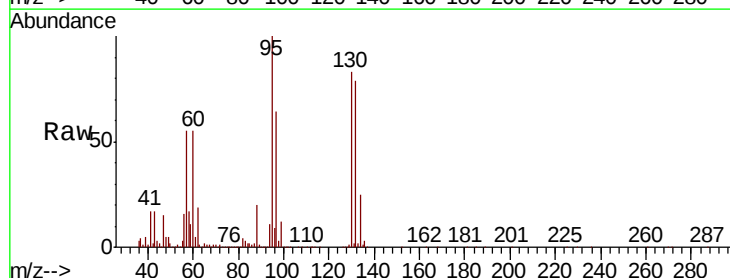
Manual Integrations
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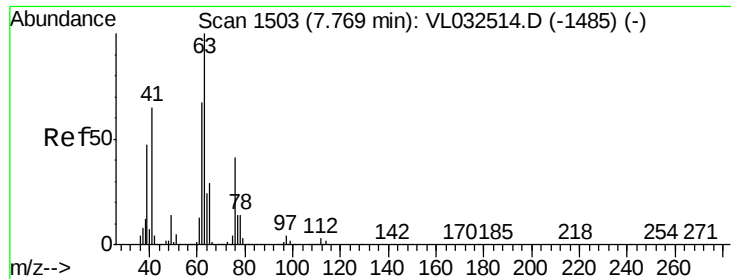
apatel
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#38
 Trichloroethene
 Concen: 13.949 ppbv
 RT: 7.99 min Scan# 1573
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.8	94.2	141.4
132	95.9	76.2	114.4
97	77.6	60.8	91.2





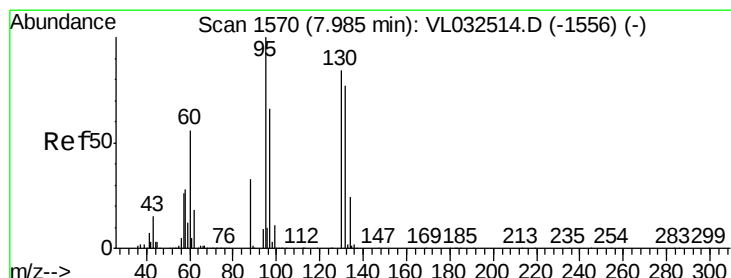
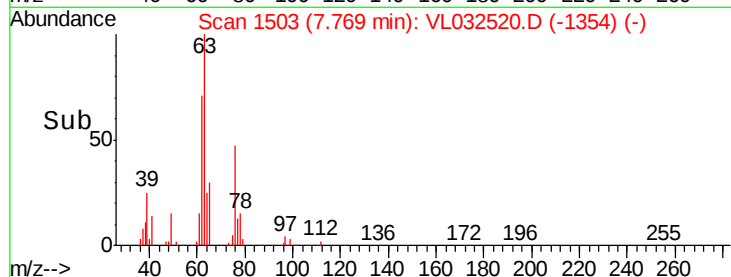
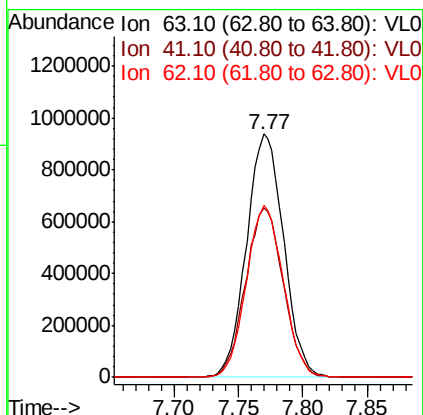
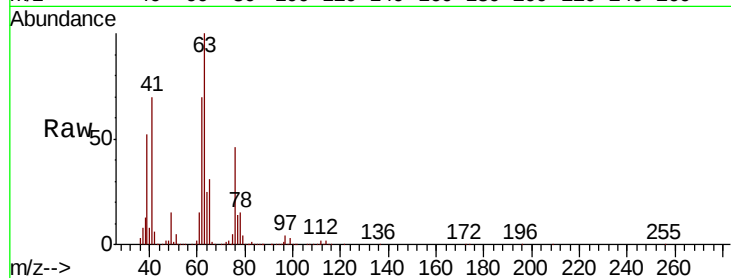
#39
 1,2-Dichloropropane
 Concen: 14.358 ppbv
 RT: 7.77 min Scan# 1503
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.7	55.4	83.0
62	70.4	55.4	83.0

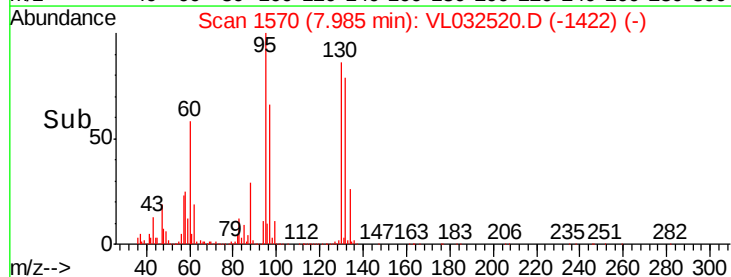
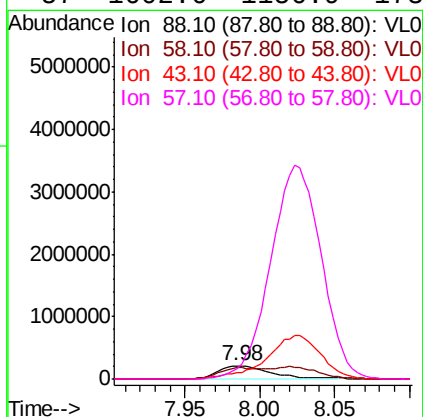
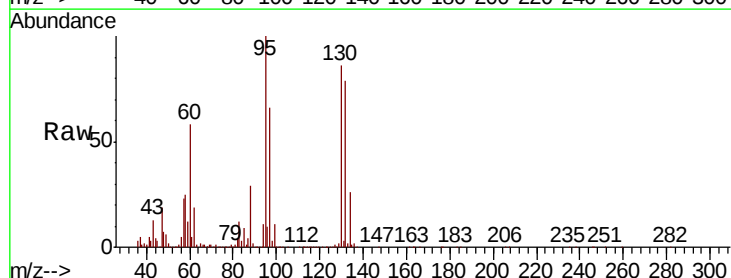
Manual Integrations
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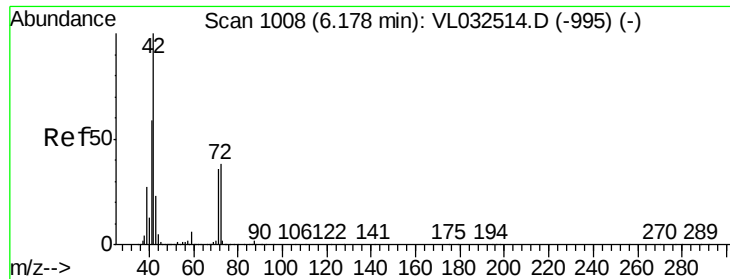
apatel
 9/26/2018 4:47:29 PM



#40
 1,4-Dioxane
 Concen: 12.822 ppbv
 RT: 7.98 min Scan# 1570
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
88	100		
58	158.1	119.7	179.5
43	346.4	253.0	379.4
57	1602.6	1156.9	1735.3





#41

Tetrahydrofuran

Concen: 14.012 ppbv

RT: 6.17 min Scan# 1007

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

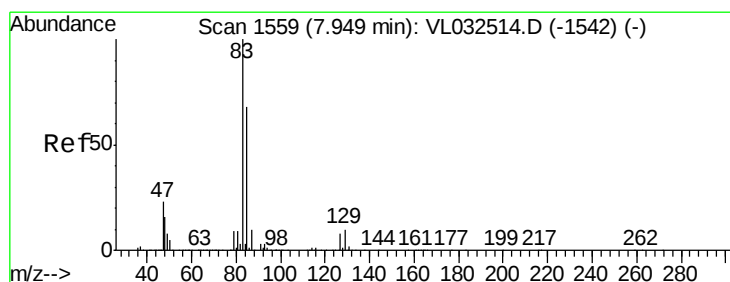
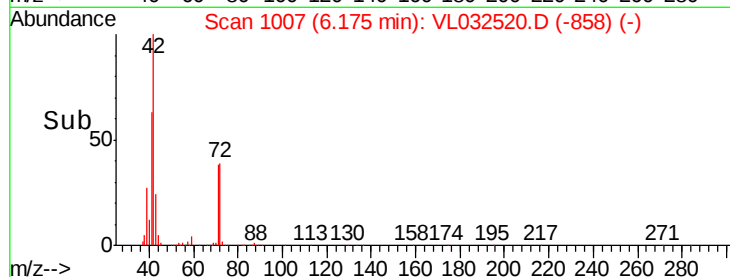
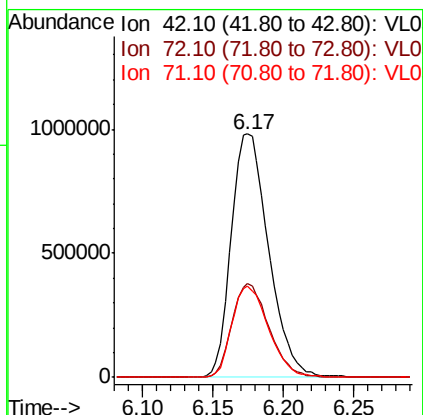
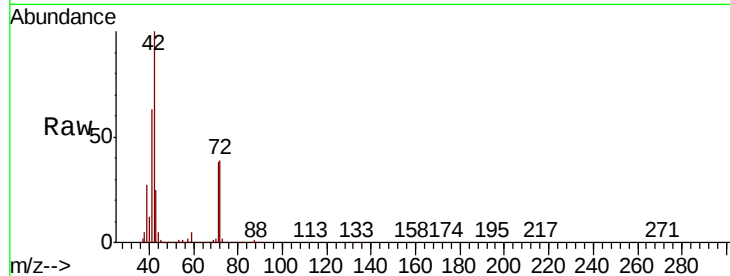
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	1826946
Ion	Ratio	Lower	Upper
42	100		
72	38.3	29.5	44.3
71	37.0	28.3	42.5

Manual Integrations
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#42

Bromodichloromethane

Concen: 14.518 ppbv

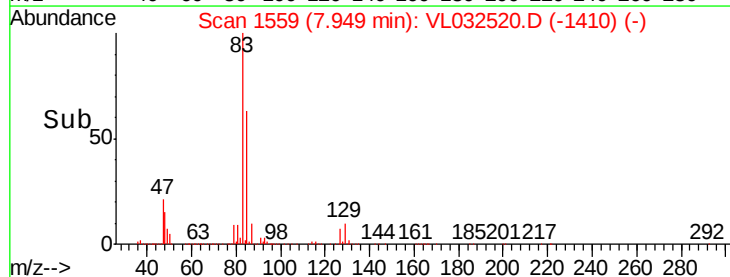
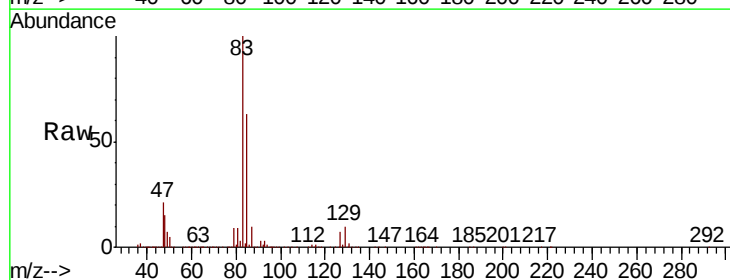
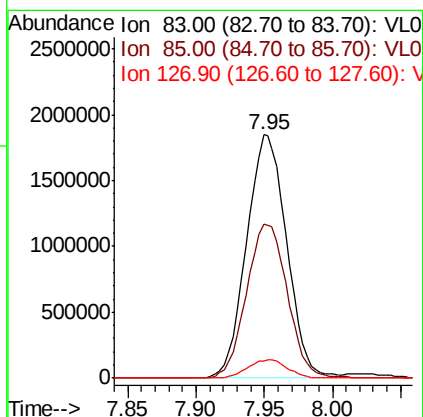
RT: 7.95 min Scan# 1559

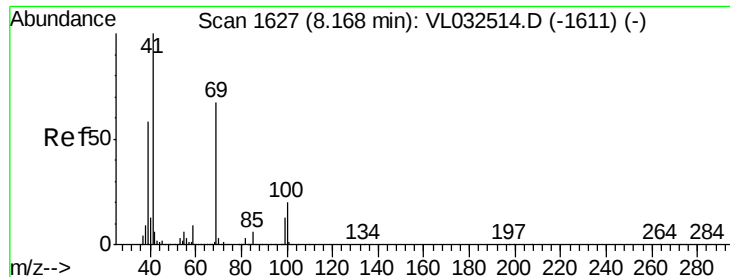
Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion:	83	Resp:	3765264
Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.1	76.7
127	7.2	5.8	8.8





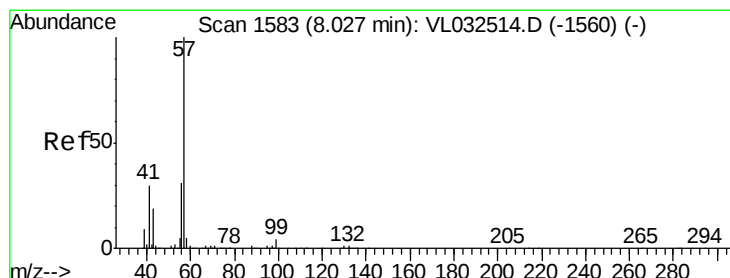
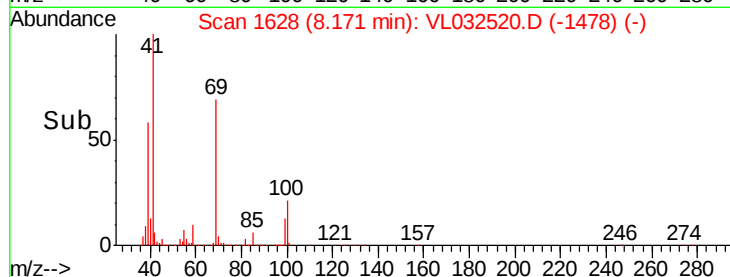
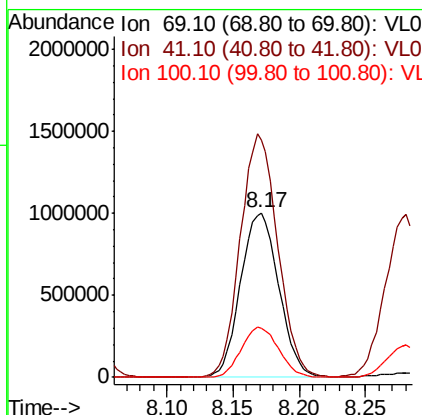
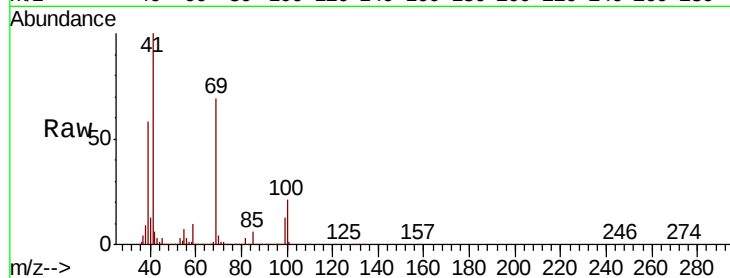
#43
Methvl Methacrilate
Concen: 15.442 ppbv
RT: 8.17 min Scan# 1628
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
69	100		
41	144.4	117.1	175.7
100	29.8	23.4	35.2

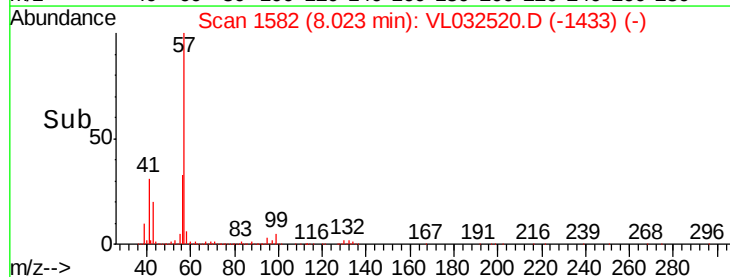
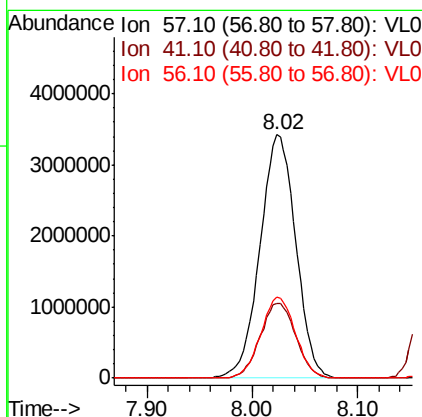
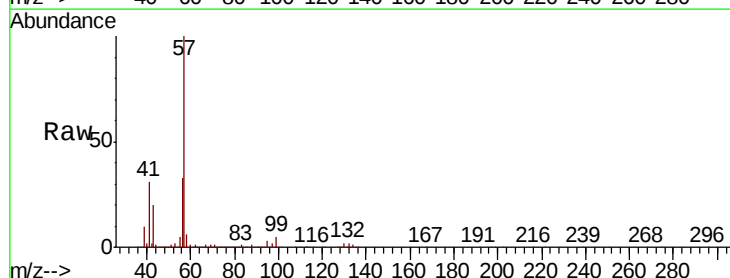
Manual Integrations
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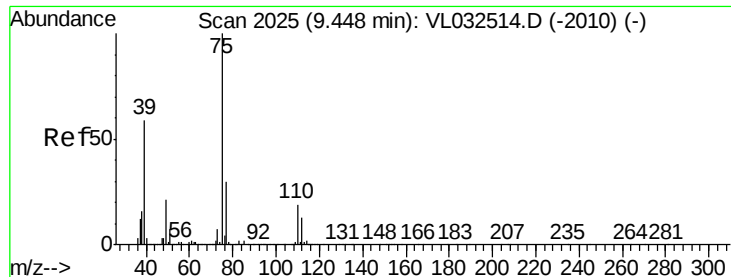
apatel
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#44
2,2,4-Trimethylpentane
Concen: 13.620 ppbv
RT: 8.02 min Scan# 1582
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	30.6	24.4	36.6
56	32.2	25.7	38.5





#45

t-1,3-Dichloropropene

Concen: 18.222 ppbv

RT: 9.45 min Scan# 2026

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 2538279

Ion Ratio Lower Upper

75 100

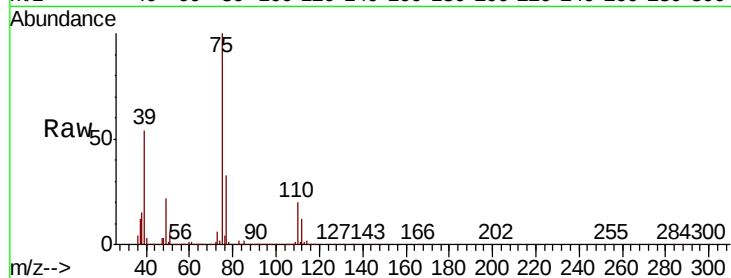
77 32.6 26.2 39.2

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

1500000

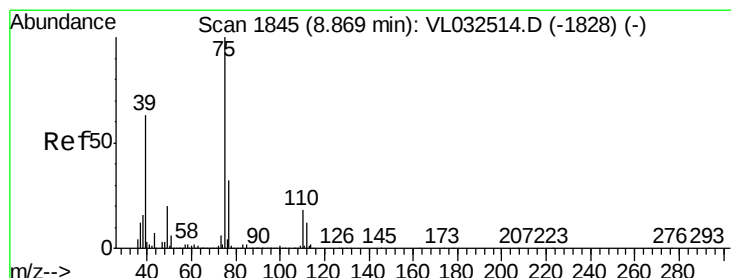
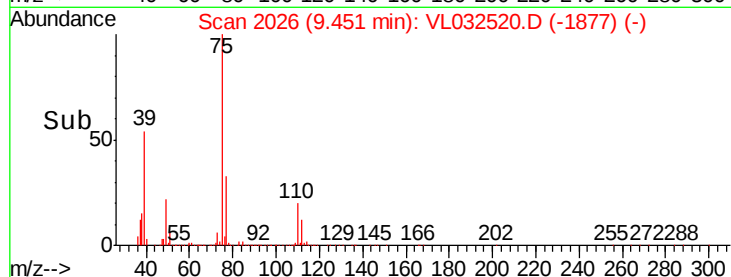
9.45

1000000

500000

0

9.35 9.40 9.45 9.50



#46

cis-1,3-Dichloropropene

Concen: 16.974 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

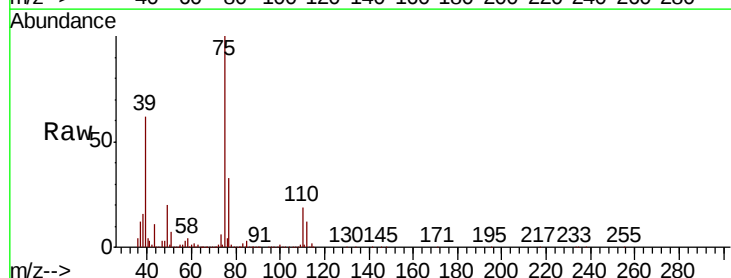
Tgt Ion: 75 Resp: 3021446

Ion Ratio Lower Upper

75 100

39 62.1 48.9 73.3

77 32.5 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

2000000

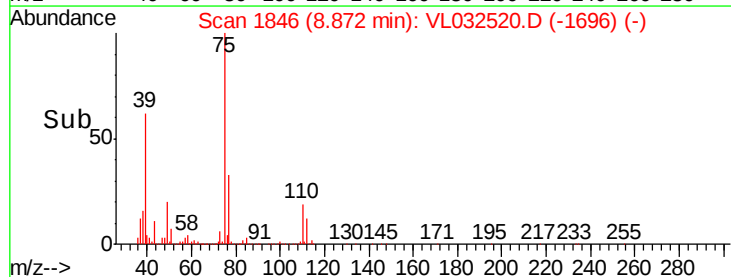
1500000

1000000

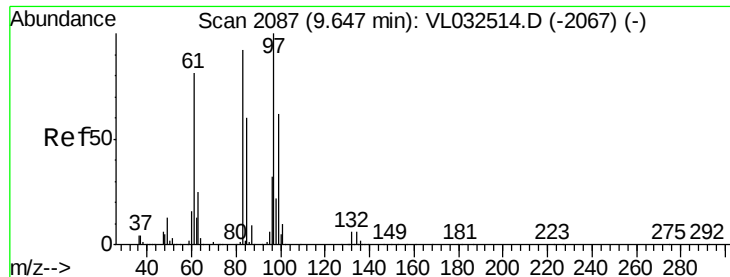
500000

0

8.80 8.85 8.90 8.95



Time-->



#47

1,1,2-Trichloroethane

Concen: 14.777 ppbv

RT: 9.65 min Scan# 2089

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 2062653

Ion Ratio Lower Upper

97 100

83 92.5 75.0 112.4

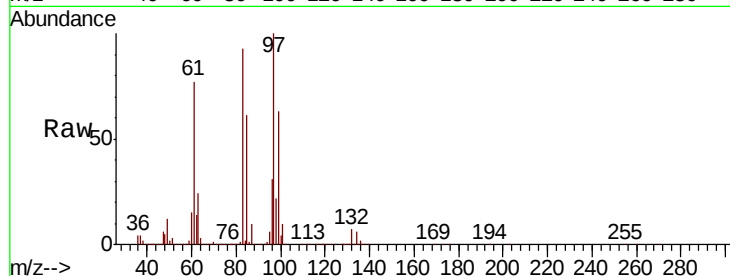
85 60.4 47.5 71.3

99 62.6 49.0 73.6

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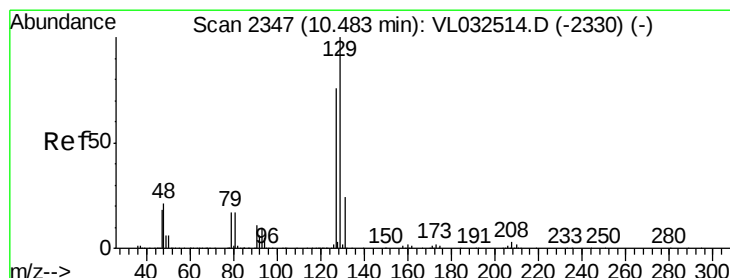
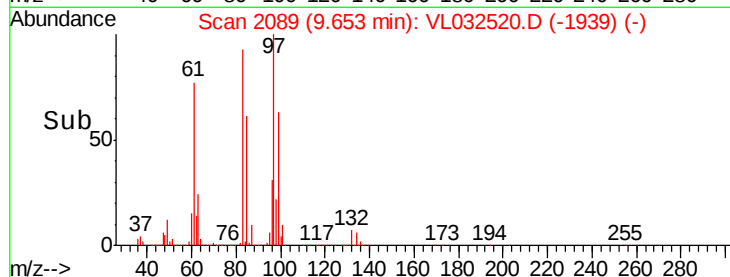
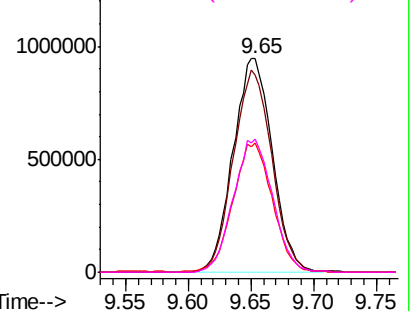
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 17.651 ppbv

RT: 10.49 min Scan# 2349

Delta R.T. -0.02 min

Lab File: VL032520.D

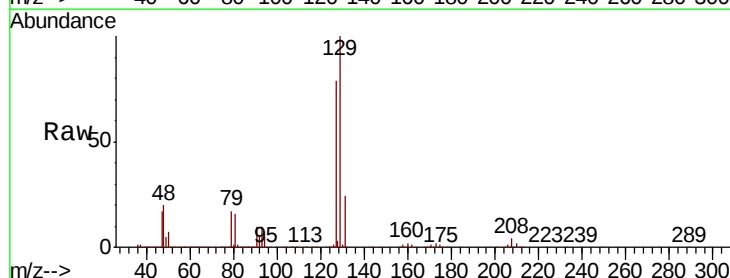
Acq: 24 Sep 2018 20:21

Tgt Ion: 129 Resp: 3412187

Ion Ratio Lower Upper

129 100

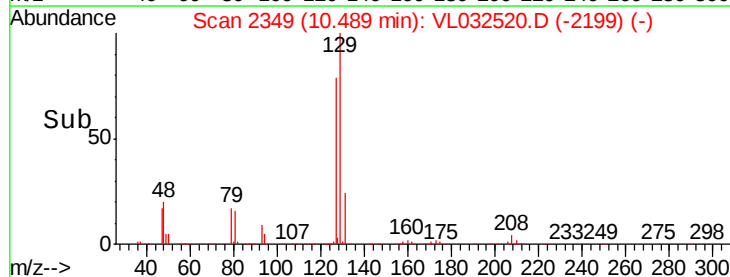
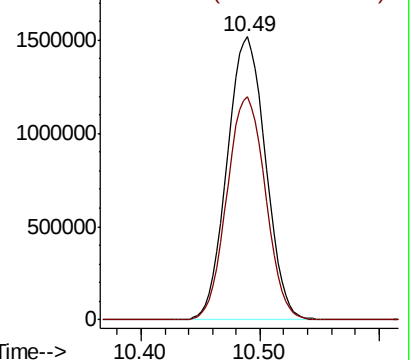
127 79.0 39.5 118.3

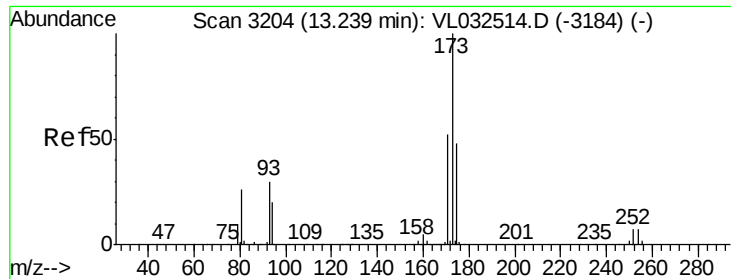


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 15.610 ppbv

RT: 13.24 min Scan# 3205

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2622888

Ion Ratio Lower Upper

173 100

175 49.1 38.9 58.3

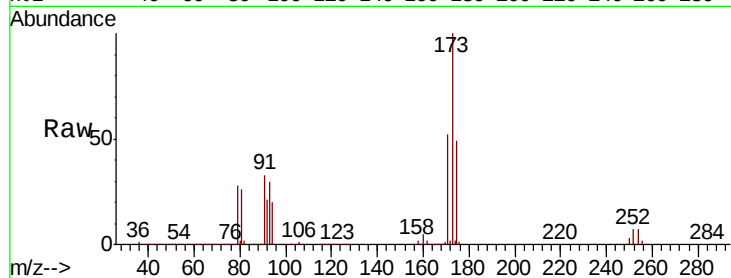
171 52.3 41.6 62.4

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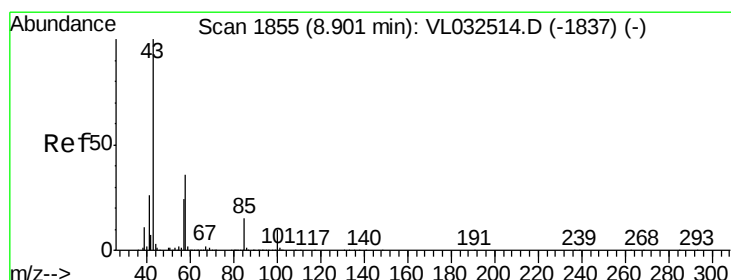
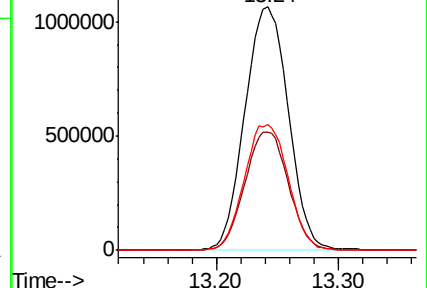
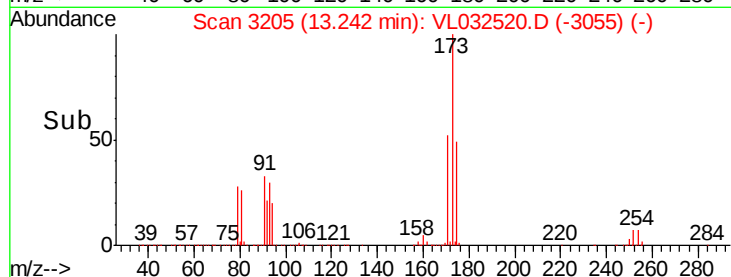
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 13.525 ppbv

RT: 8.90 min Scan# 1855

Delta R.T. -0.02 min

Lab File: VL032520.D

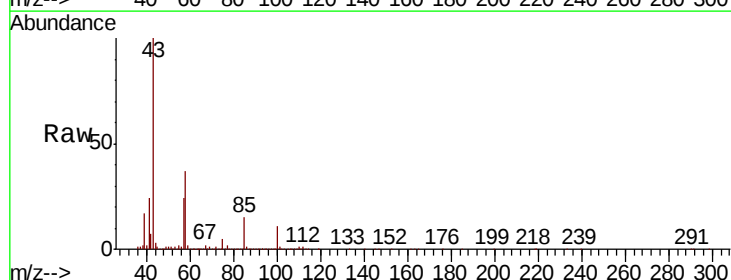
Acq: 24 Sep 2018 20:21

Tgt Ion: 43 Resp: 4879411

Ion Ratio Lower Upper

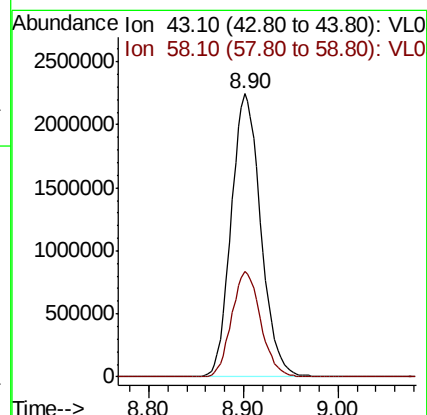
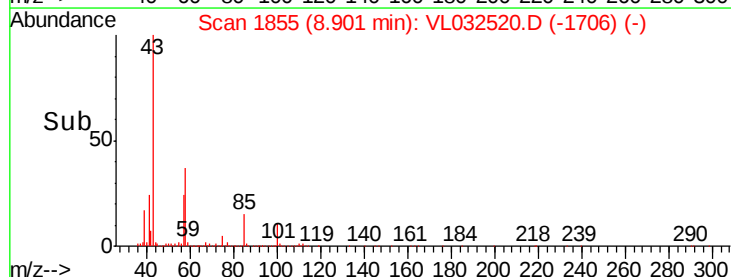
43 100

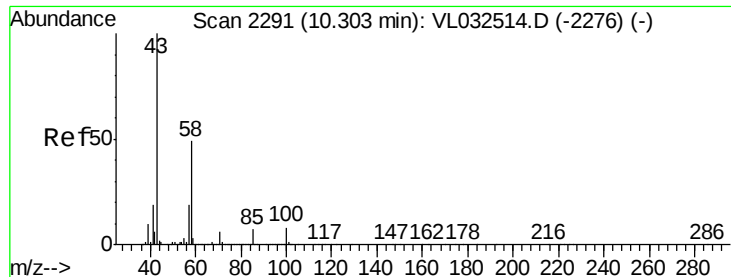
58 36.6 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 19.506 ppbv

RT: 10.30 min Scan# 2291

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 43 Resp: 4532920

Ion Ratio Lower Upper

43 100

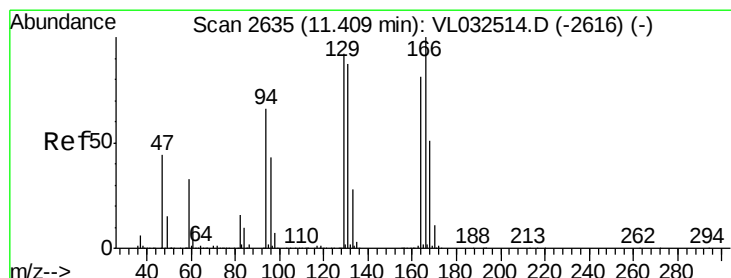
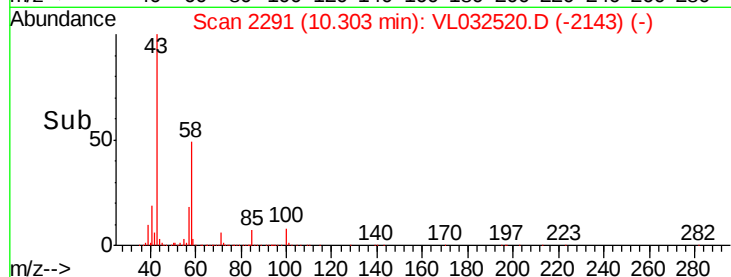
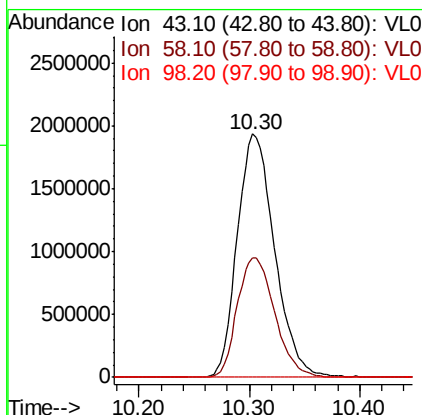
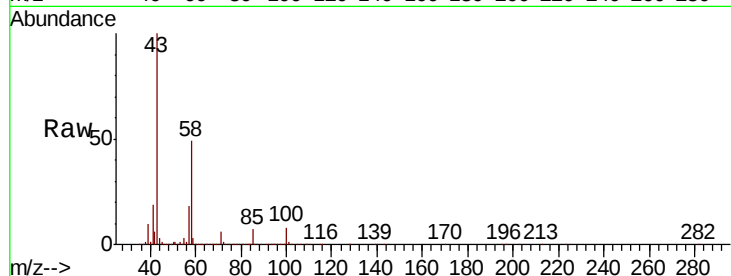
58 49.6 39.2 58.8

98 0.2 0.4 0.6#

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#52

Tetrachloroethene

Concen: 15.467 ppbv

RT: 11.41 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion: 164 Resp: 1471658

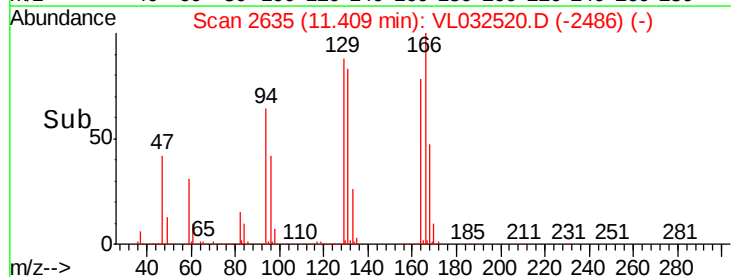
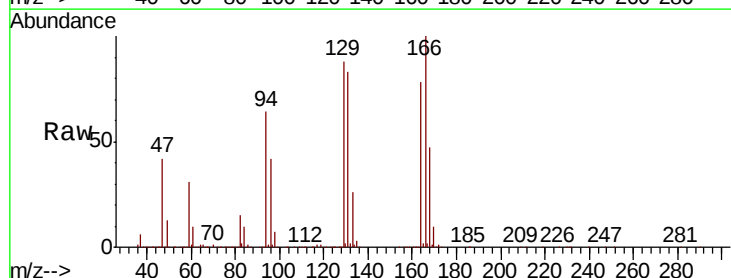
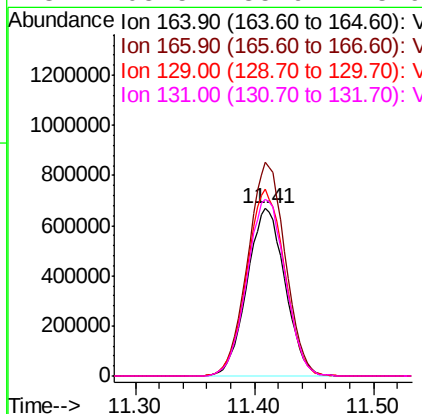
Ion Ratio Lower Upper

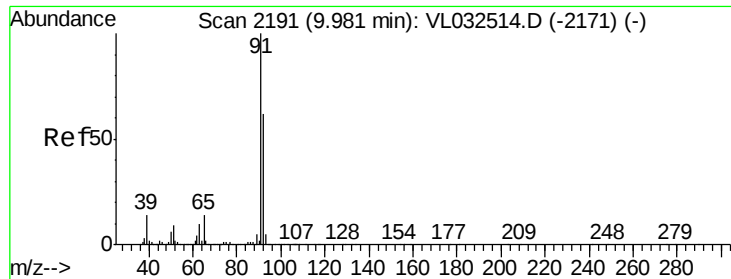
164 100

166 127.6 100.6 150.8

129 111.7 89.9 134.9

131 105.5 85.9 128.9





#53

Toluene

Concen: 18.020 ppbv

RT: 9.98 min Scan# 2192

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5779777

Ion Ratio Lower Upper

91 100

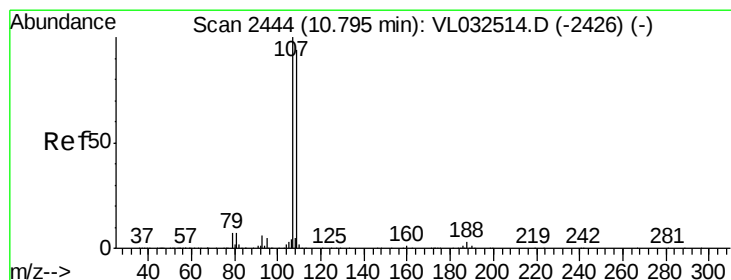
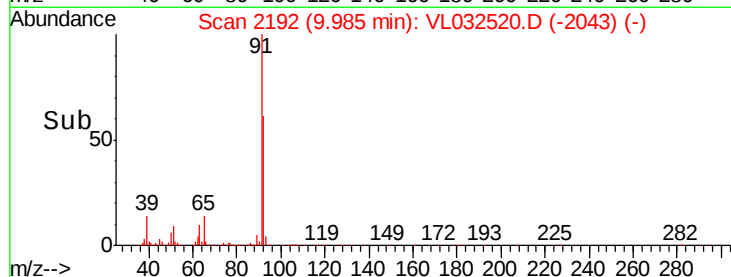
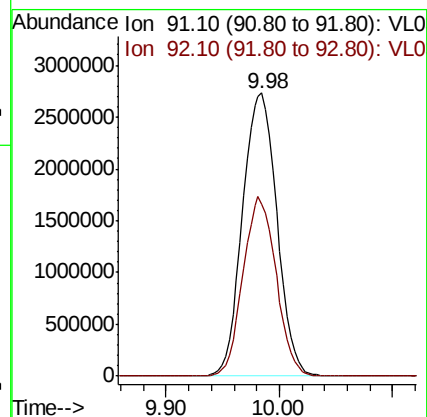
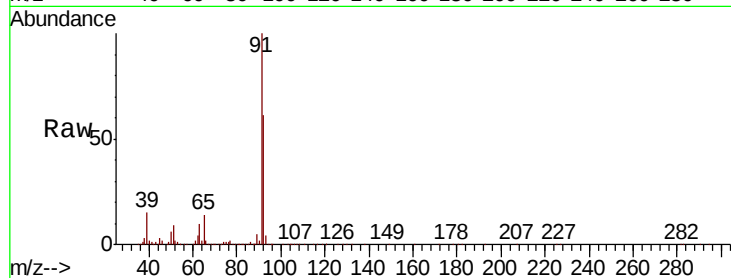
92 61.1 48.1 72.1

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#54

1,2-Dibromoethane

Concen: 16.780 ppbv

RT: 10.80 min Scan# 2445

Delta R.T. -0.02 min

Lab File: VL032520.D

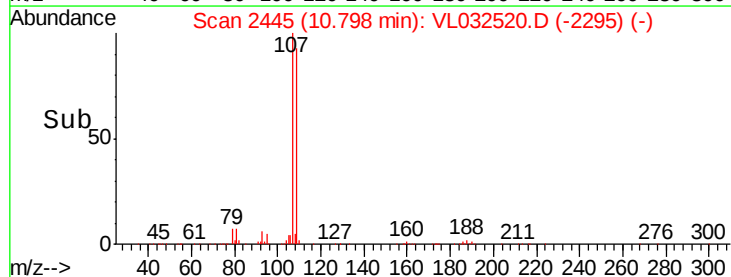
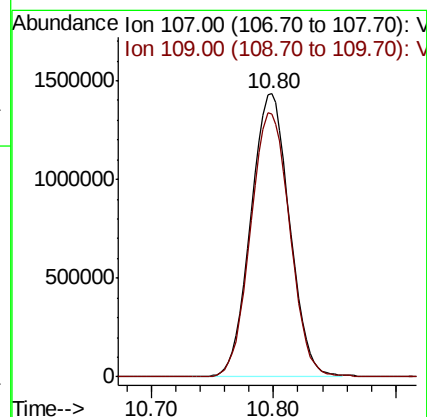
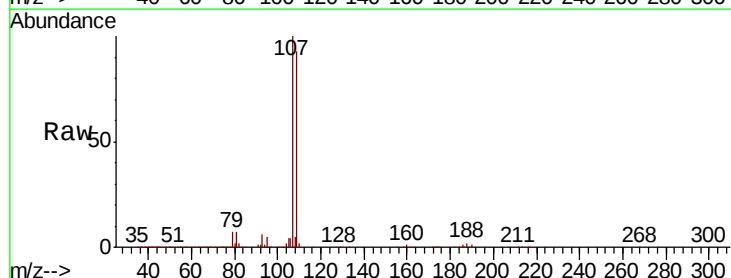
Acq: 24 Sep 2018 20:21

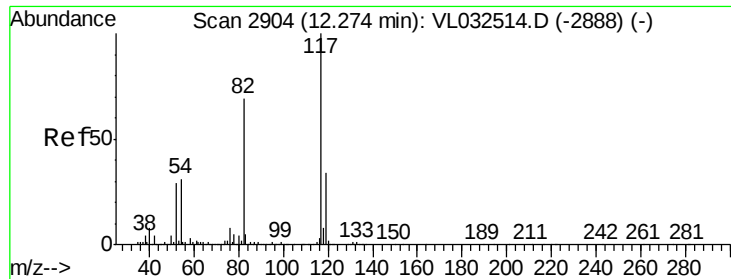
Tgt Ion: 107 Resp: 3144778

Ion Ratio Lower Upper

107 100

109 92.7 73.9 110.9





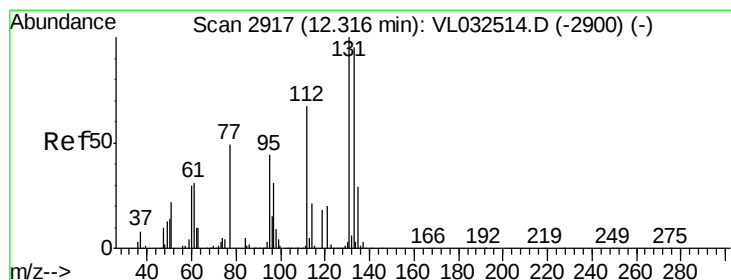
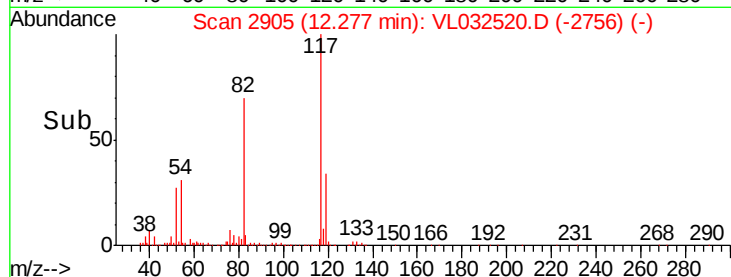
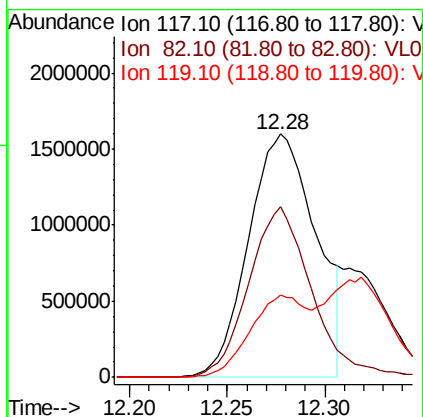
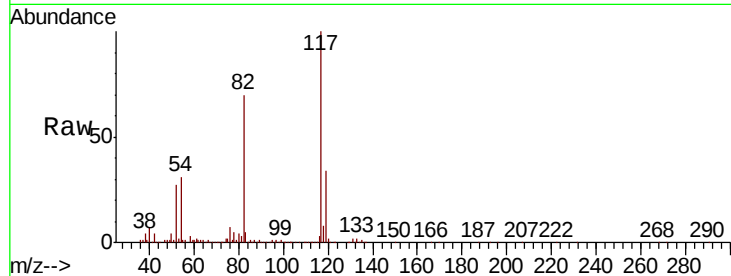
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.28 min Scan# 2905
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3832290
Ion Ratio Lower Upper
117 100
82 65.9 53.0 79.6
119 67.9 45.9 68.9

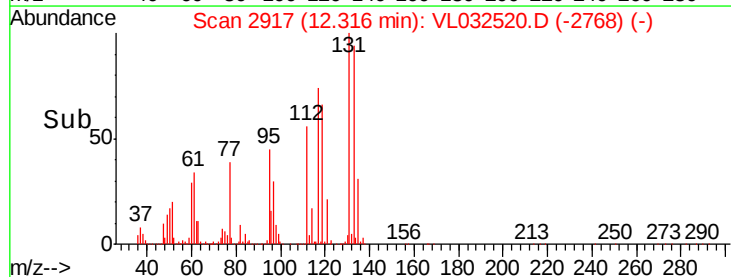
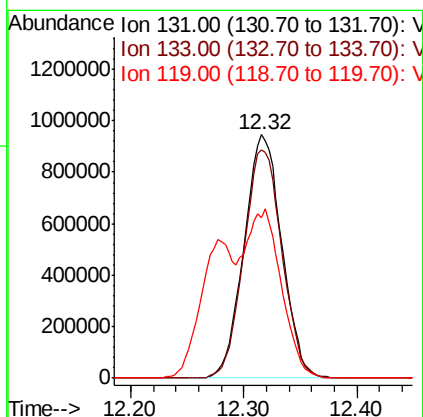
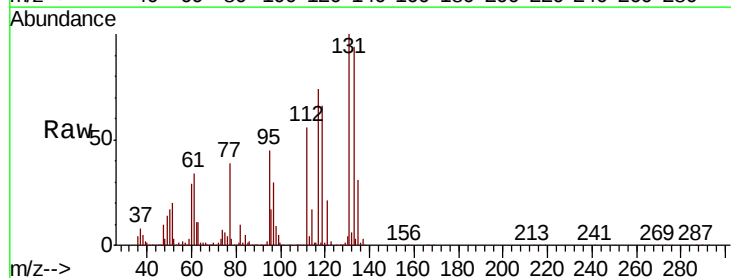
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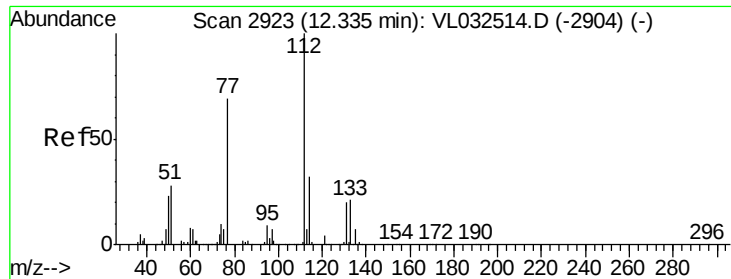
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.671 ppbv
RT: 12.32 min Scan# 2917
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion:131 Resp: 2189293
Ion Ratio Lower Upper
131 100
133 95.5 77.0 115.4
119 72.4 114.2 171.2#





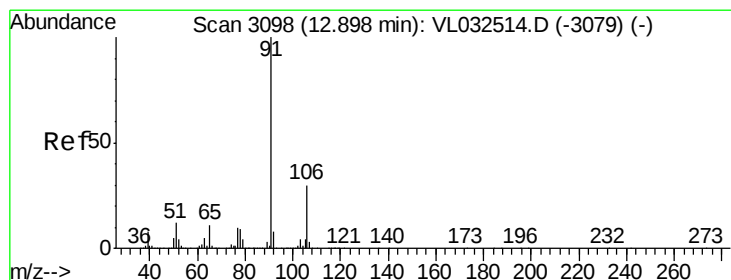
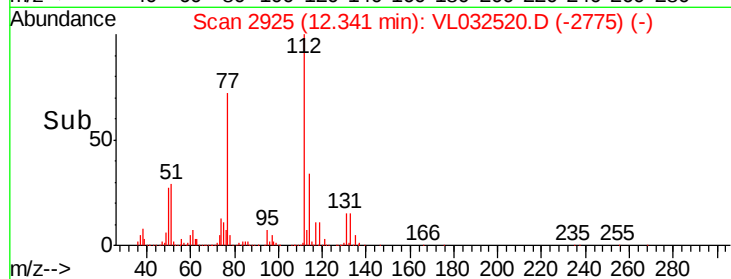
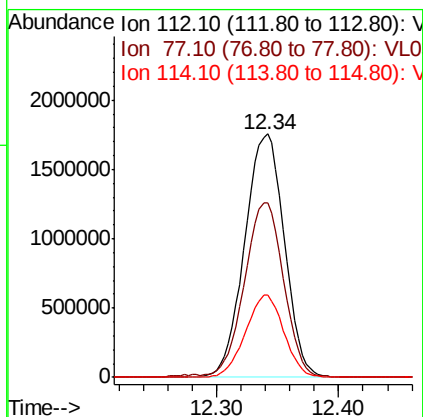
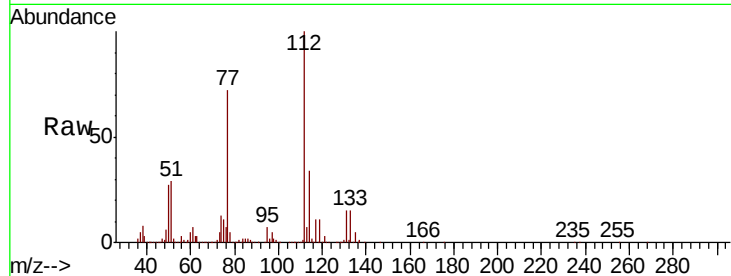
#57
Chlorobenzene
Concen: 12.851 ppbv
RT: 12.34 min Scan# 2925
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.7	56.1	84.1
114	34.0	27.8	34.0

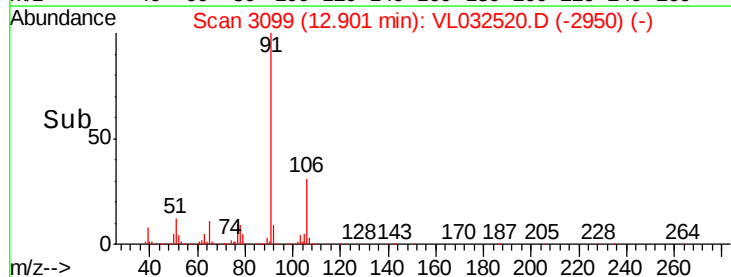
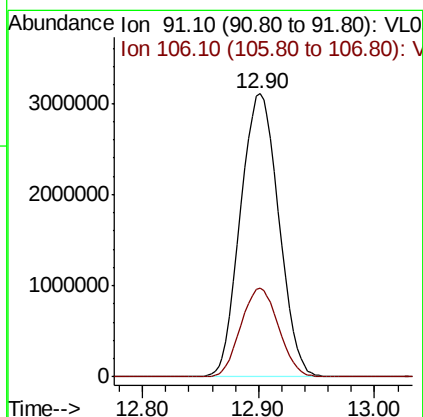
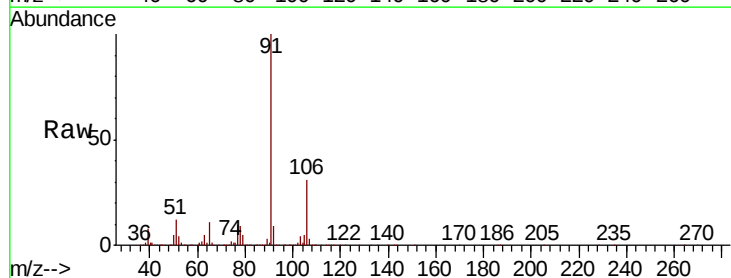
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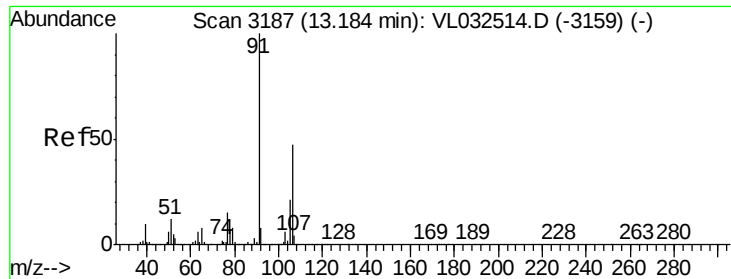
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#58
Ethyl Benzene
Concen: 15.554 ppbv
RT: 12.90 min Scan# 3099
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.2	24.8	37.2





#59

m/p-Xylene

Concen: 28.204 ppbv m

RT: 13.19 min Scan# 3188

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tot Ion: 91 Resp: 11531471

Ion Ratio Lower Upper

91 100

106 46.4 36.6 55.0

Instrument :

MSVOA_L

ClientSampleId :

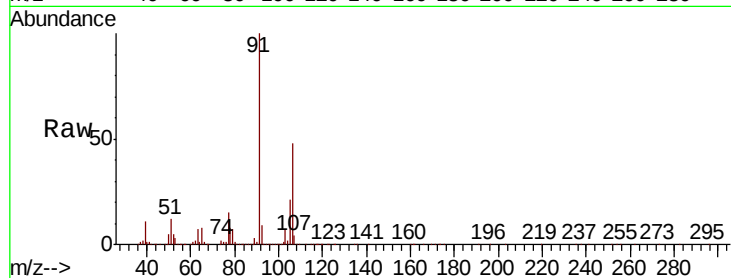
VSTDIC015

Manual Integrations

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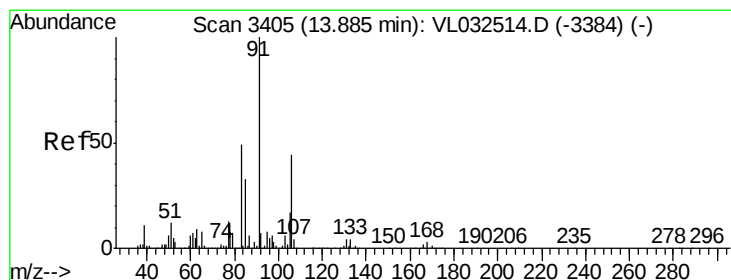
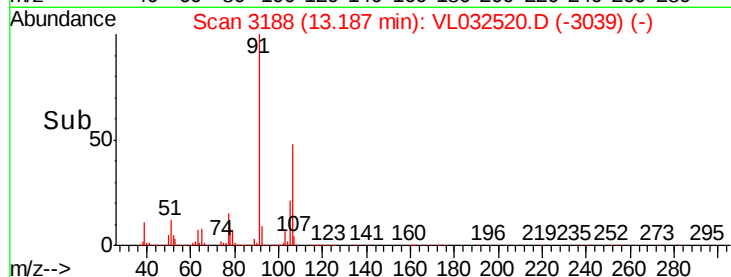
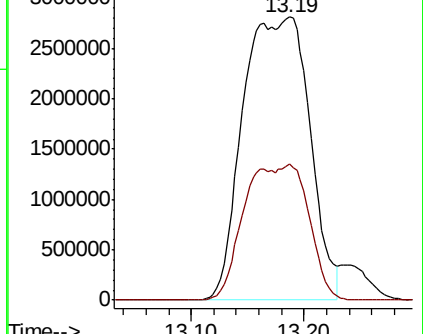
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 14.166 ppbv

RT: 13.89 min Scan# 3406

Delta R.T. -0.02 min

Lab File: VL032520.D

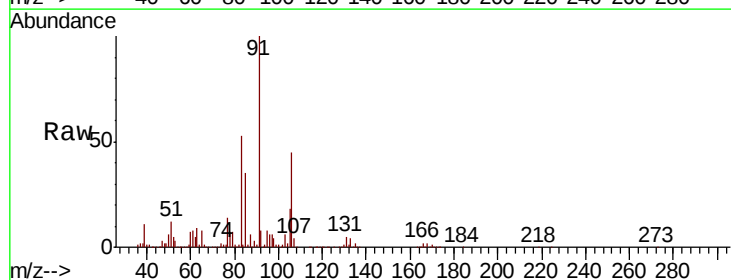
Acq: 24 Sep 2018 20:21

Tgt Ion: 91 Resp: 5689477

Ion Ratio Lower Upper

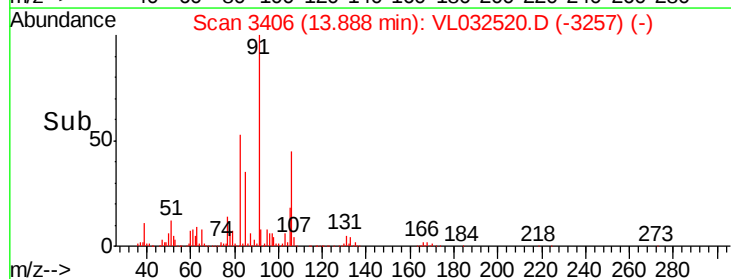
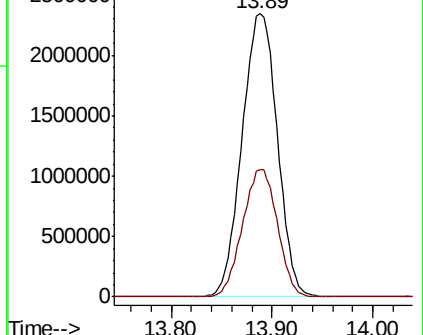
91 100

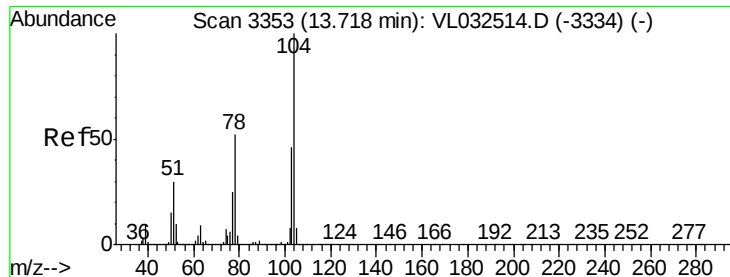
106 44.4 21.9 65.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





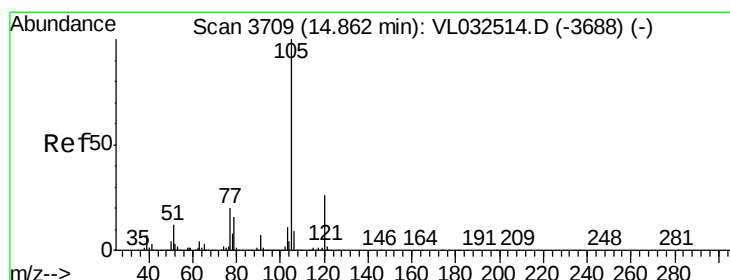
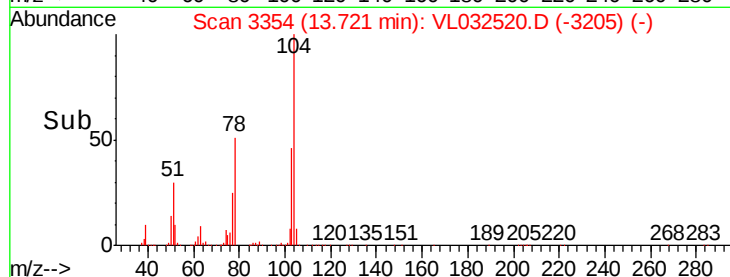
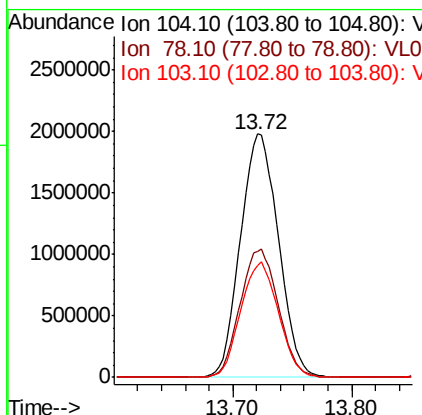
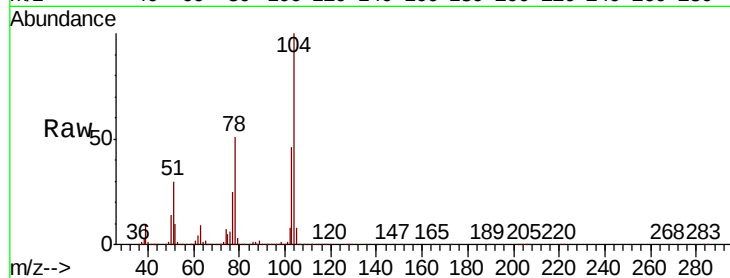
#61
Stvrene
Concen: 16.887 ppbv
RT: 13.72 min Scan# 3354
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.8	62.8
103	47.0	38.0	57.0

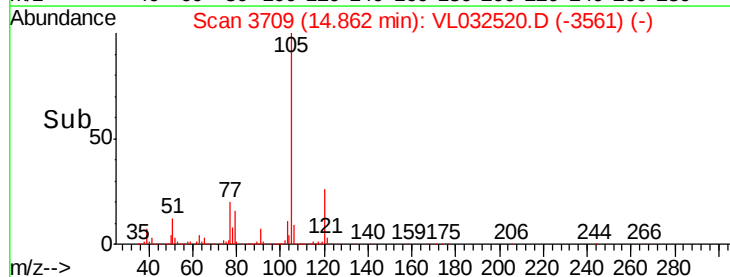
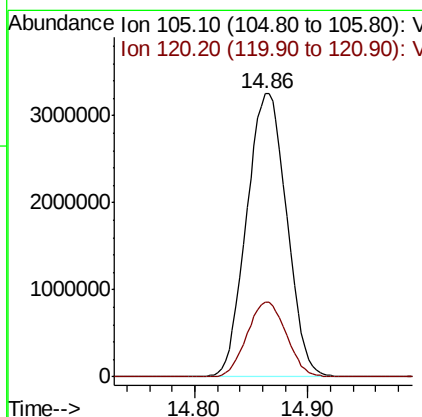
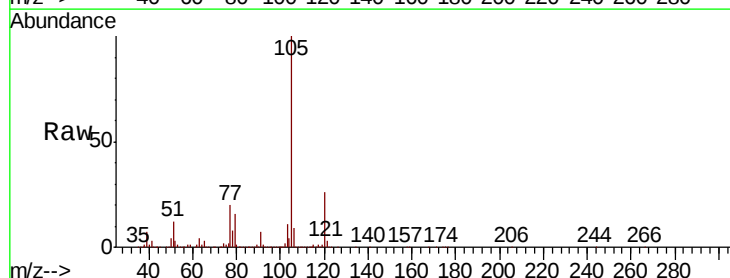
Manual Integrations
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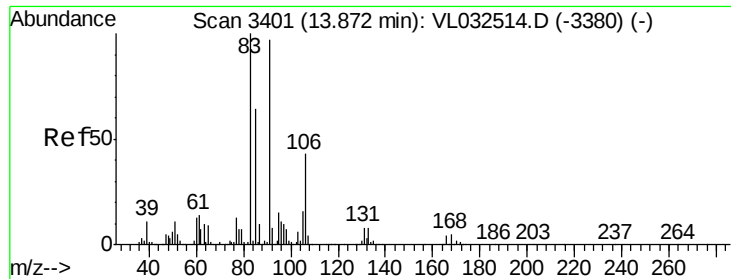
apatel
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#62
Isopropylbenzene
Concen: 14.207 ppbv
RT: 14.86 min Scan# 3709
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	20.6	31.0





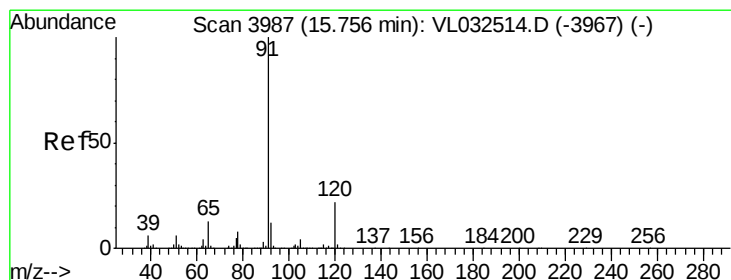
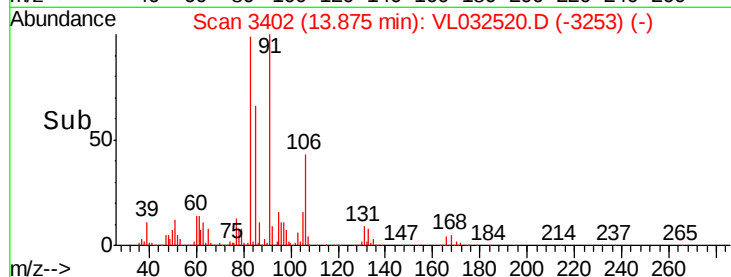
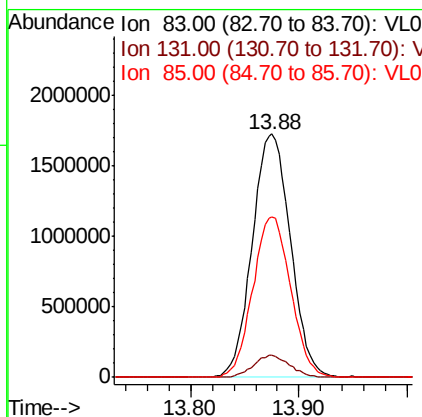
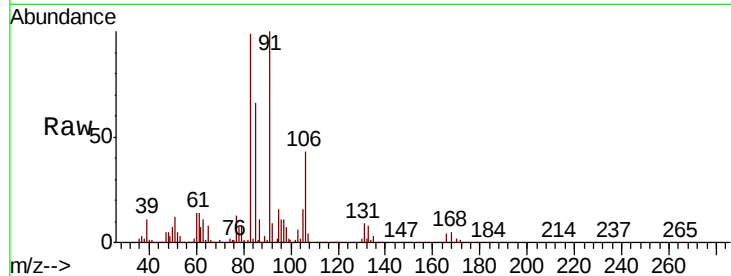
#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.818 ppbv
 RT: 13.88 min Scan# 3402
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	83	131	85
Resp	4243605	8.7	65.8
Lower		4.3	32.3
Upper		12.8	96.8

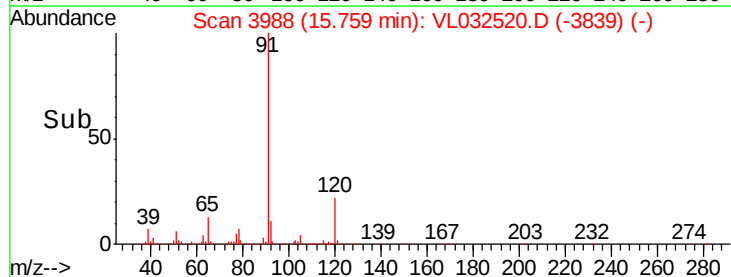
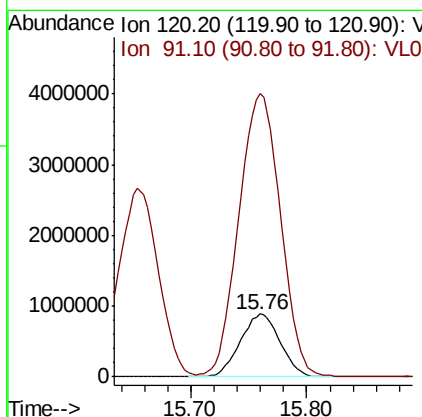
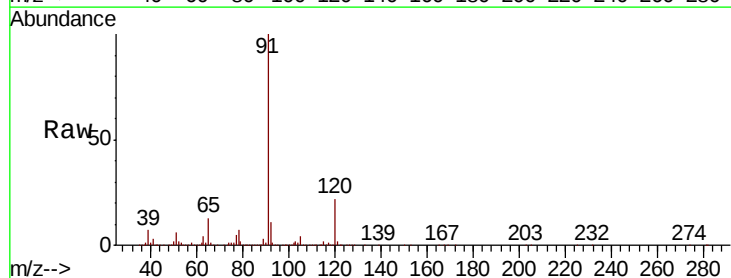
Manual Integrations
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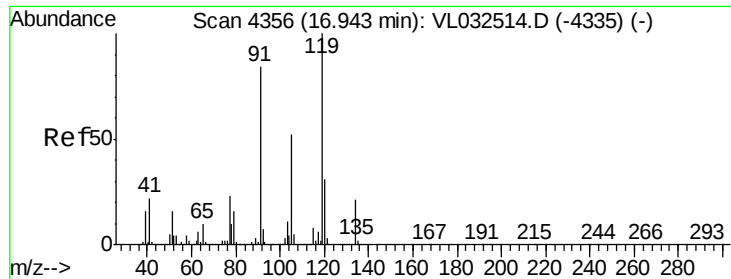
apatel
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#64
 n-propylbenzene
 Concen: 14.402 ppbv
 RT: 15.76 min Scan# 3988
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion	120	91
Resp	2125674	470.3
Lower		381.8
Upper		572.6





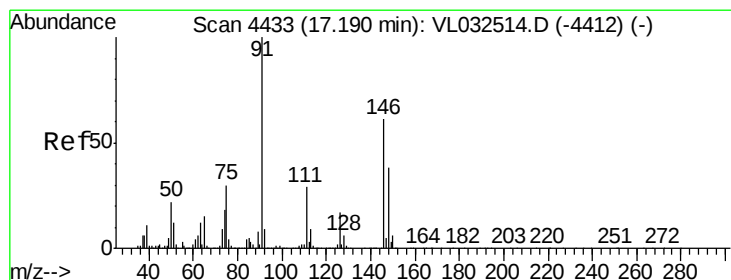
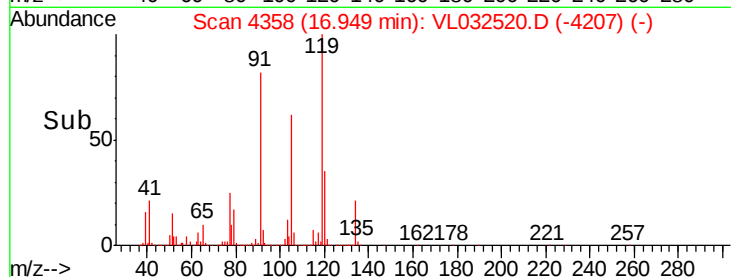
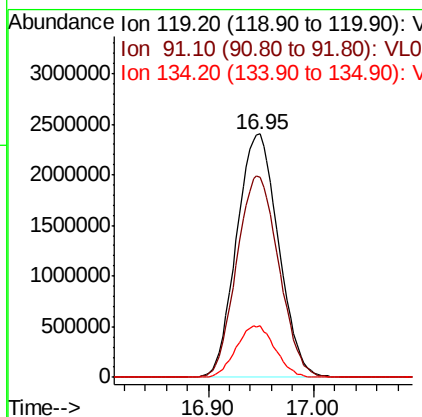
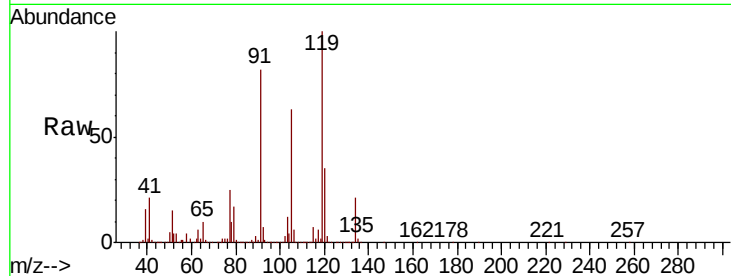
#65
tert-Butylbenzene
Concen: 13.582 ppbv
RT: 16.95 min Scan# 4358
Delta R.T. -0.01 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:119 Resp: 6607670
Ion Ratio Lower Upper
119 100
91 83.5 66.5 99.7
134 19.8 16.0 24.0

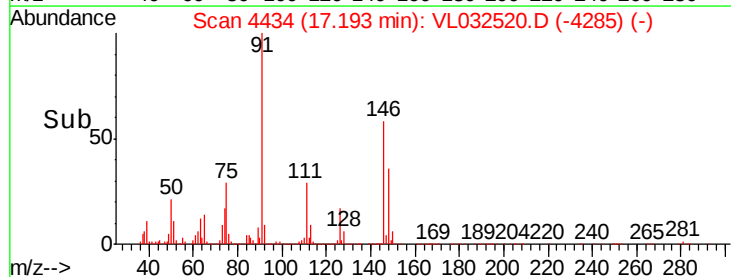
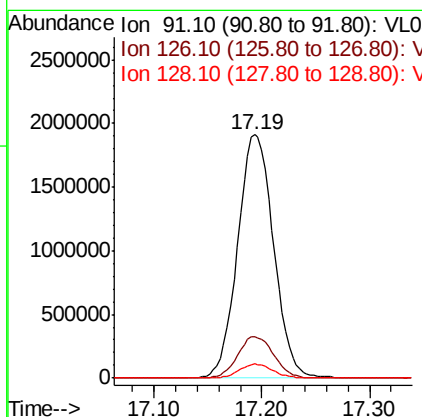
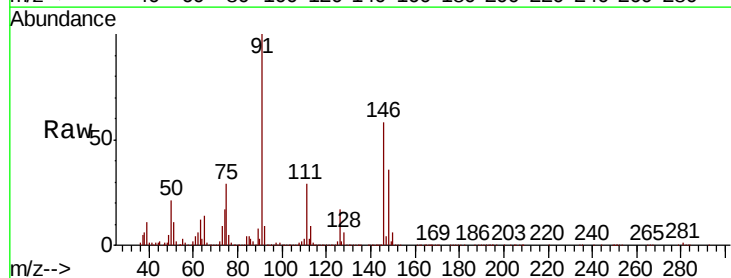
Manual Integrations
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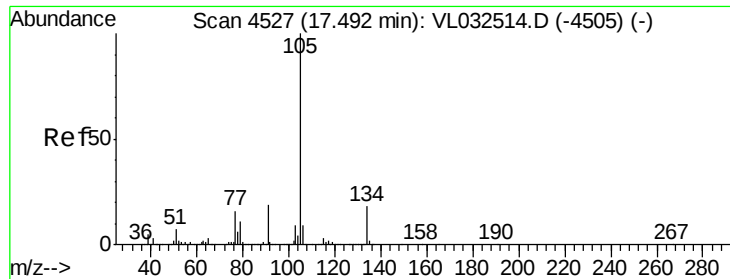
apatel
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#66
Benzyl Chloride
Concen: 16.323 ppbv
RT: 17.19 min Scan# 4434
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion: 91 Resp: 4424085
Ion Ratio Lower Upper
91 100
126 17.2 13.8 20.8
128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 13.439 ppbv

RT: 17.50 min Scan# 4529

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 9832826

Ion Ratio Lower Upper

105 100

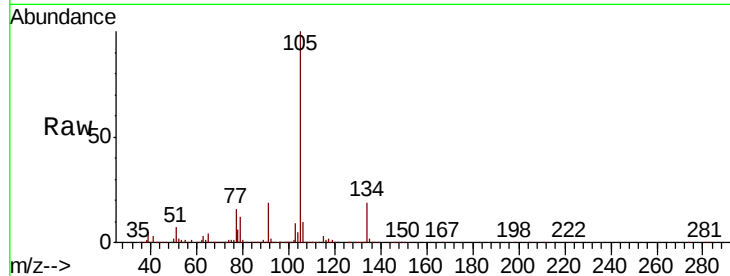
134 17.9 14.4 21.6

Manual Integrations

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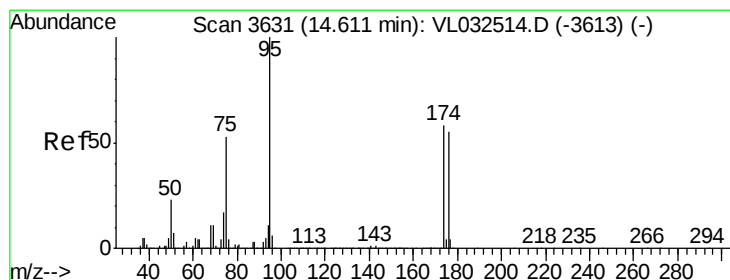
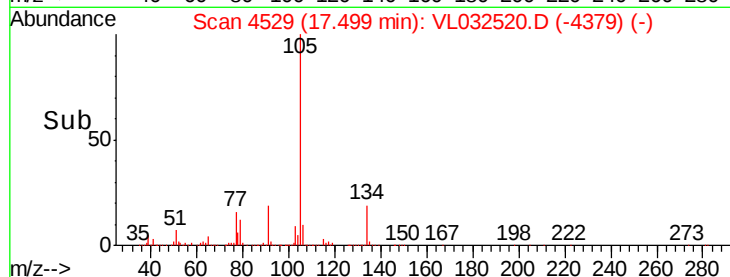
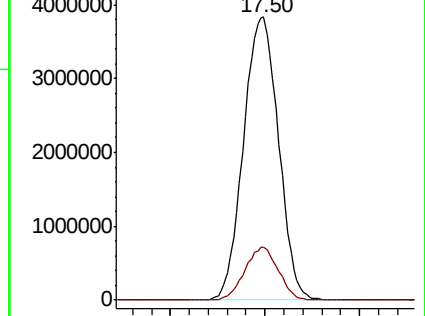
apatel

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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: 9.944 ppbv

RT: 14.61 min Scan# 3632

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

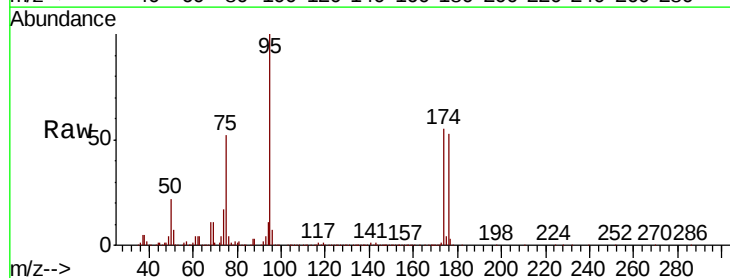
Tgt Ion: 95 Resp: 2829193

Ion Ratio Lower Upper

95 100

174 57.9 46.3 69.5

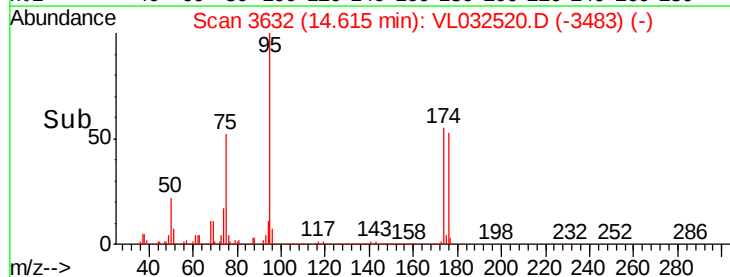
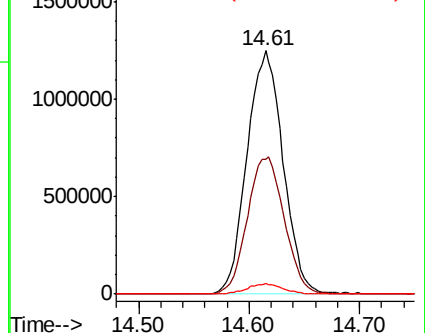
175 4.1 3.4 5.0

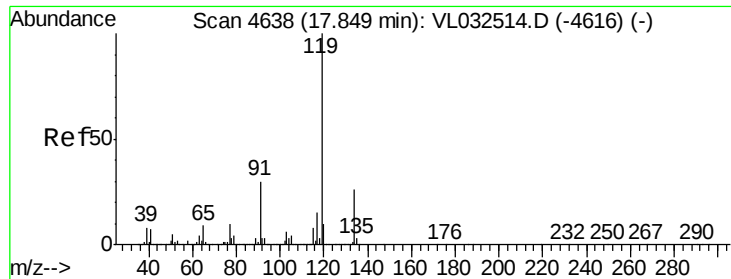


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





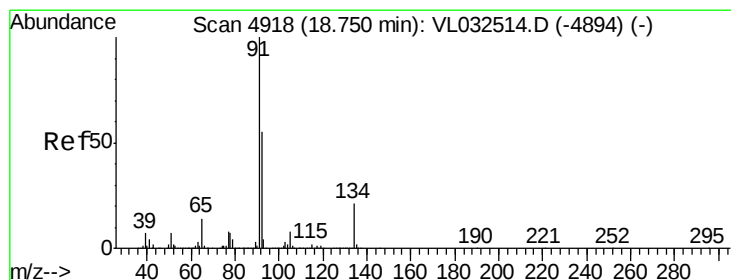
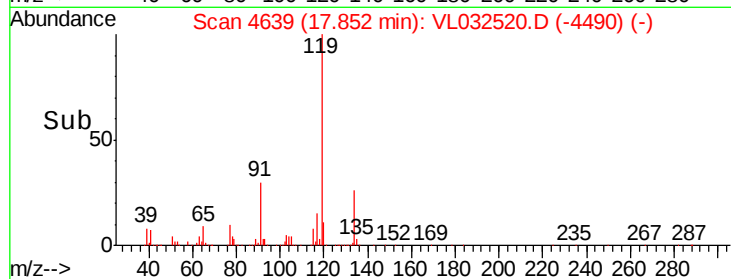
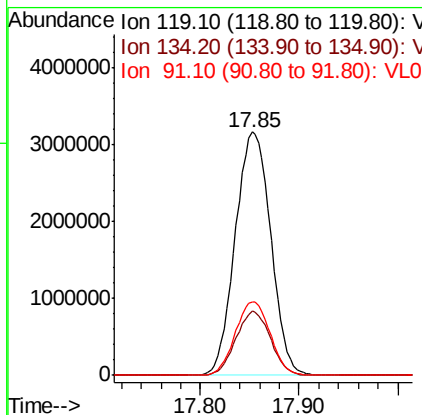
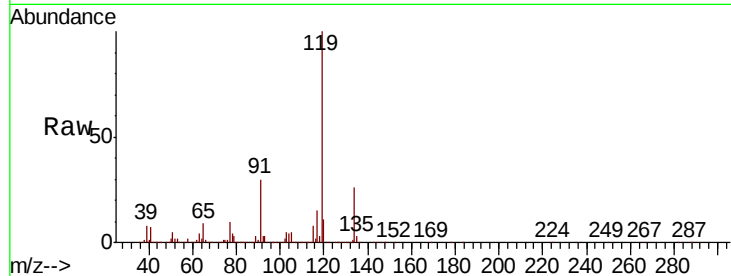
#69
 p-Isopropyltoluene
 Concen: 13.956 ppbv
 RT: 17.85 min Scan# 4639
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.4	30.6
91	29.6	23.4	35.2

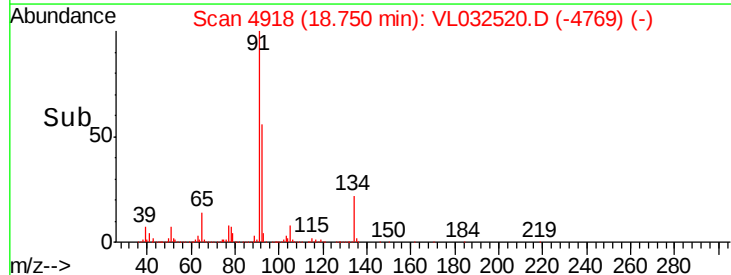
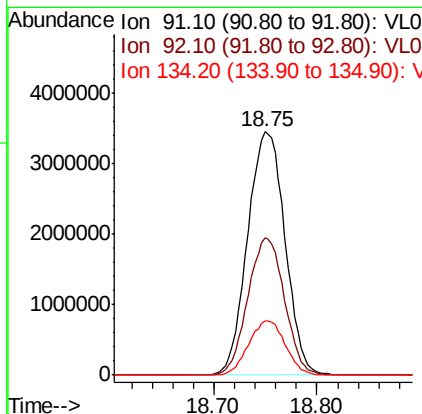
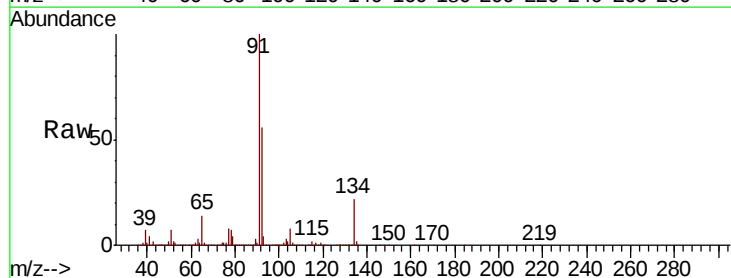
Manual Integrations
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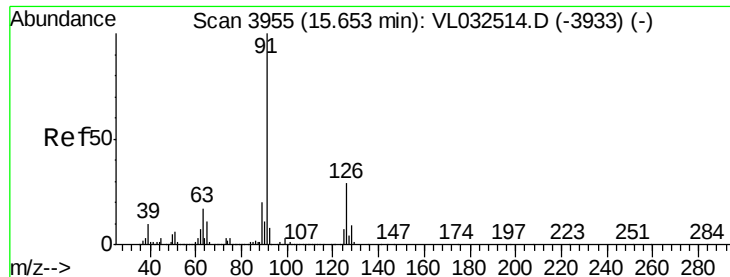
apatel
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#70
 n-Butylbenzene
 Concen: 13.515 ppbv
 RT: 18.75 min Scan# 4918
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	43.8	65.8
134	21.9	17.4	26.0





#71

2-Chlorotoluene

Concen: 14.690 ppbv

RT: 15.65 min Scan# 3955

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6336095

Ion Ratio Lower Upper

91 100

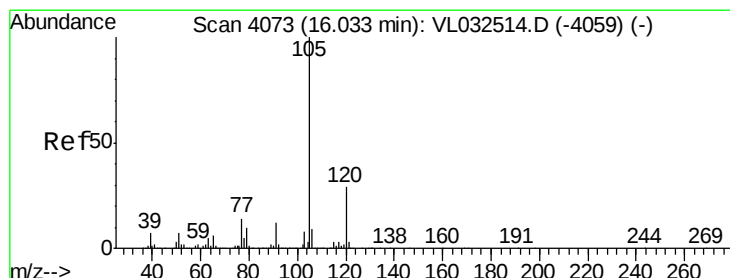
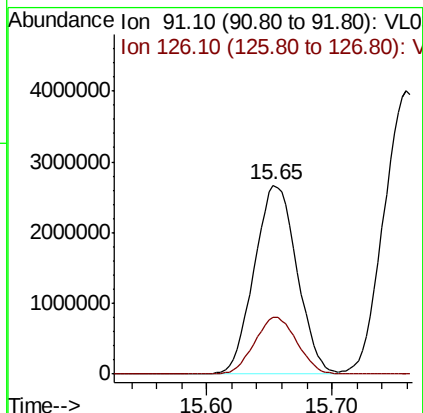
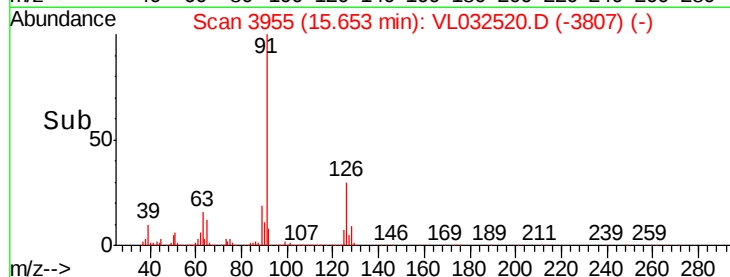
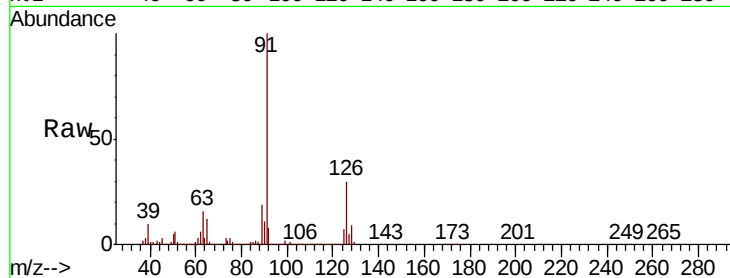
126 29.9 11.9 47.7

Manual Integrations

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#72

4-Ethyltoluene

Concen: 15.317 ppbv

RT: 16.04 min Scan# 4075

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion:105 Resp: 6716247

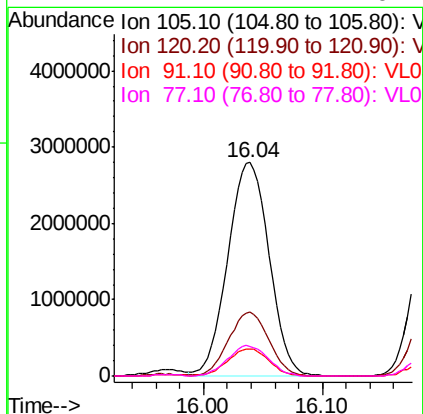
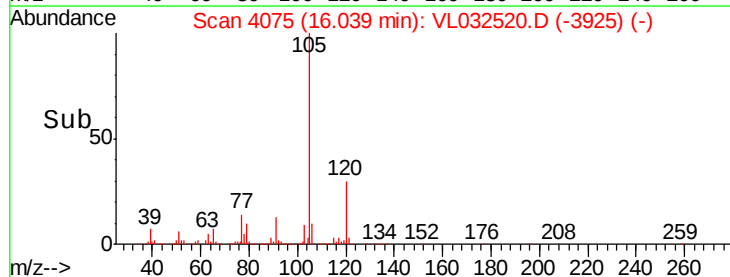
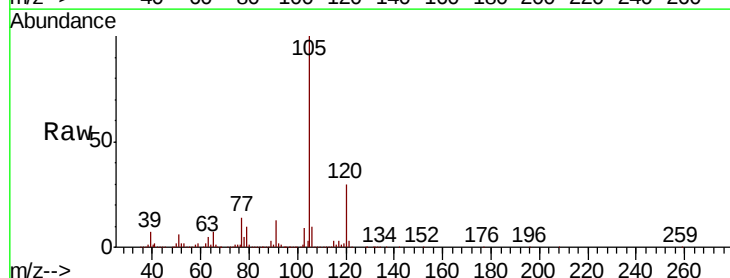
Ion Ratio Lower Upper

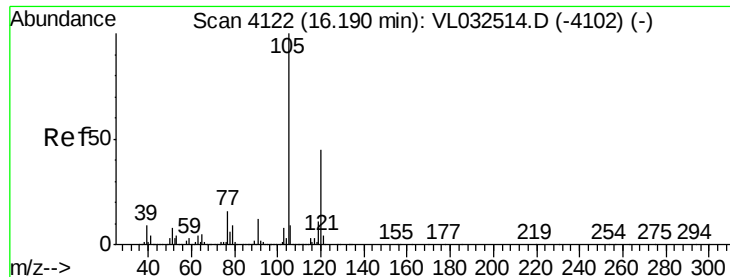
105 100

120 29.4 23.5 35.3

91 13.2 10.2 15.2

77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 14.444 ppbv

RT: 16.20 min Scan# 4124

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 6345414

Ion Ratio Lower Upper

105 100

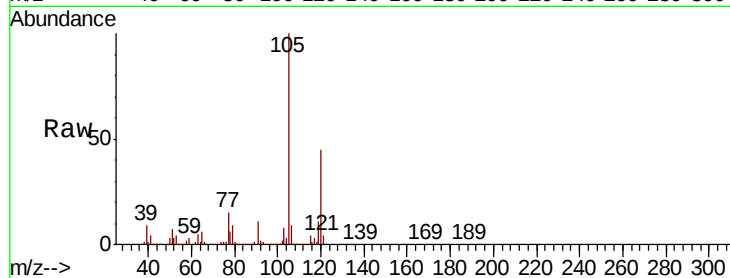
120 45.1 37.9 56.9

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

3000000

2500000

2000000

1500000

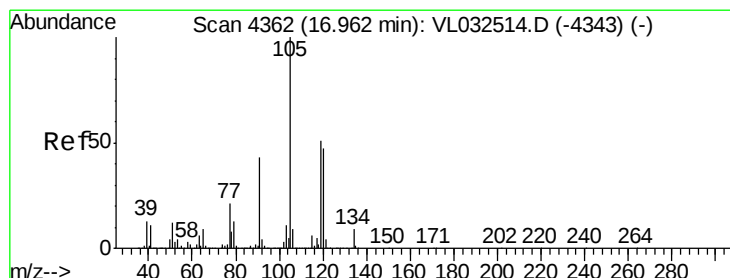
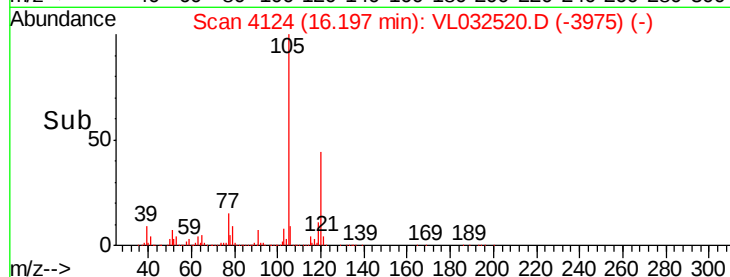
1000000

500000

0

16.10 16.20 16.30

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 12.940 ppbv

RT: 16.97 min Scan# 4364

Delta R.T. -0.01 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Tgt Ion:105 Resp: 6214545

Ion Ratio Lower Upper

105 100

120 46.4 37.8 56.8

91 39.4 41.4 62.0#

77 20.5 18.6 28.0

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

4000000

3000000

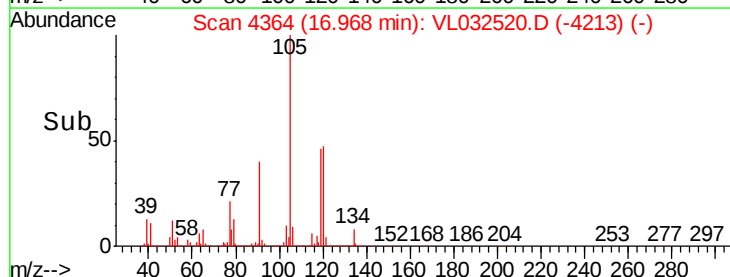
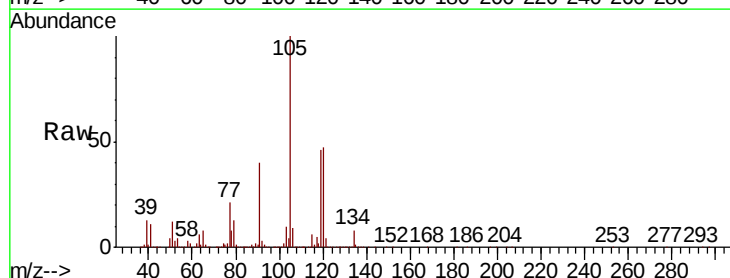
2000000

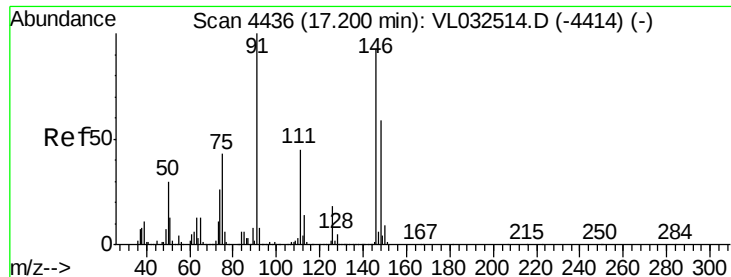
1000000

0

16.90 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 12.396 ppbv

RT: 17.21 min Scan# 4438

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3532508

Ion Ratio Lower Upper

146 100

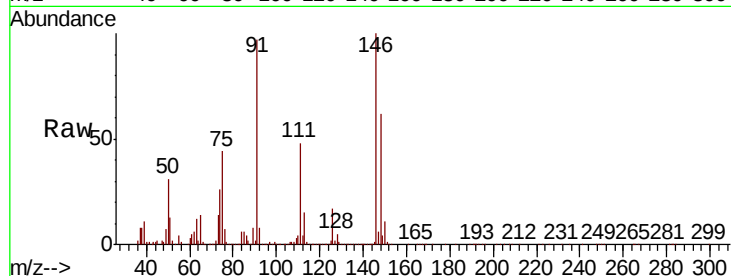
111 48.9 24.5 73.5

148 64.1 32.0 96.2

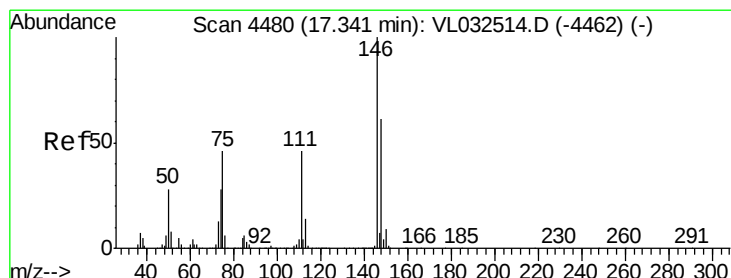
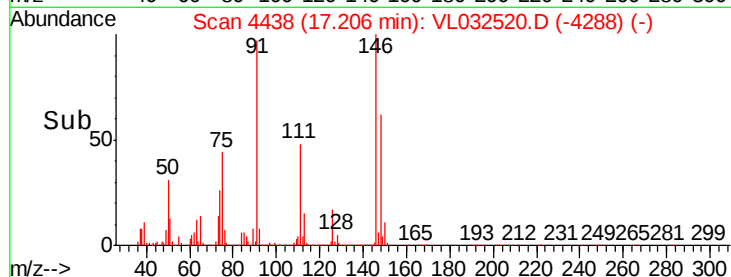
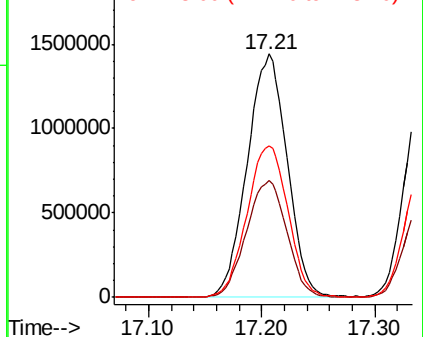
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
2000000 Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 13.552 ppbv

RT: 17.35 min Scan# 4482

Delta R.T. -0.02 min

Lab File: VL032520.D

Acq: 24 Sep 2018 20:21

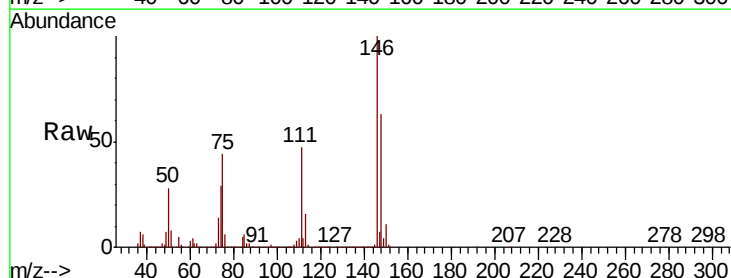
Tgt Ion:146 Resp: 3583364

Ion Ratio Lower Upper

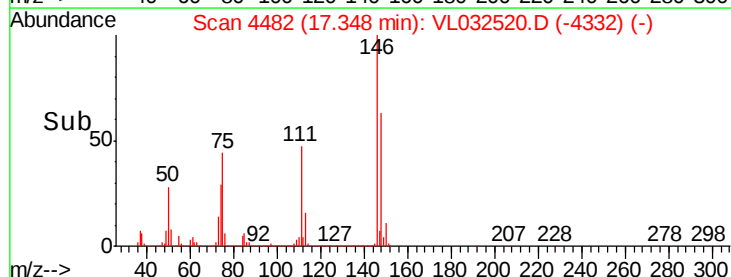
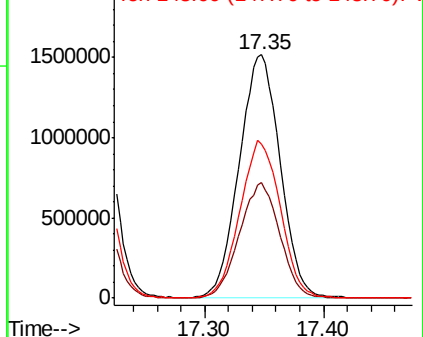
146 100

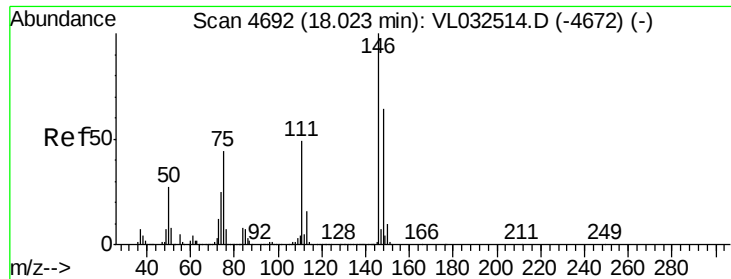
111 47.0 23.4 70.2

148 64.7 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V
2000000 Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





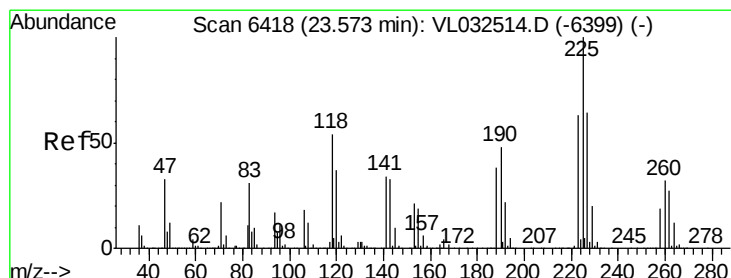
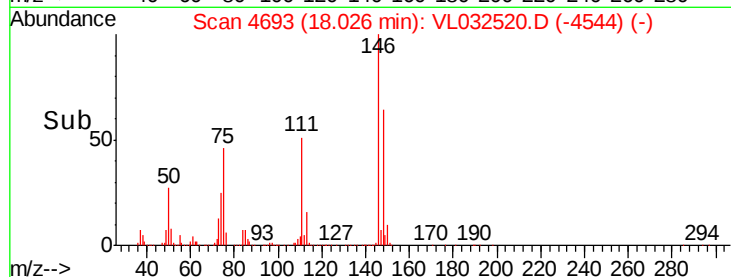
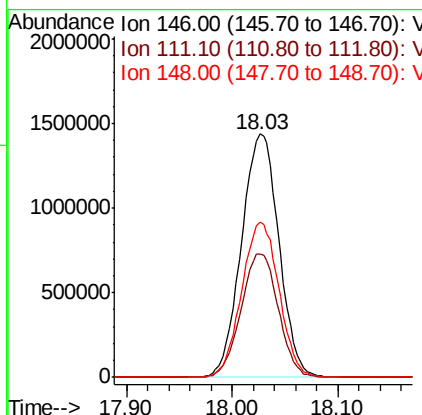
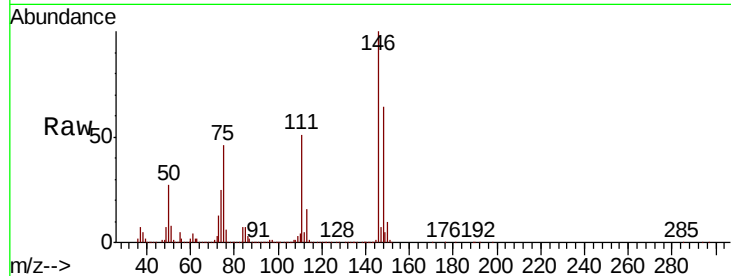
#77
 1,2-Dichlorobenzene
 Concen: 12.925 ppbv
 RT: 18.03 min Scan# 4693
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.6	24.9	74.8
148	63.7	32.0	96.0

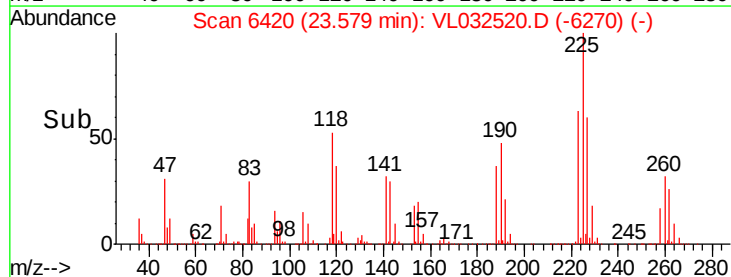
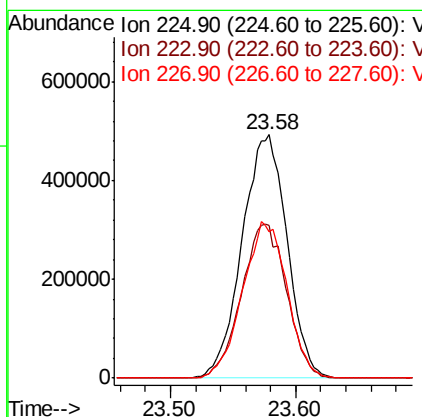
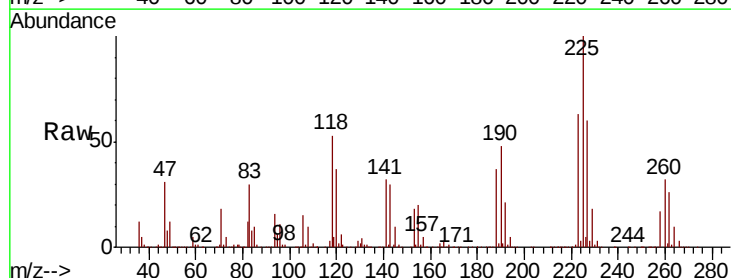
Manual Integrations
 APPROVED

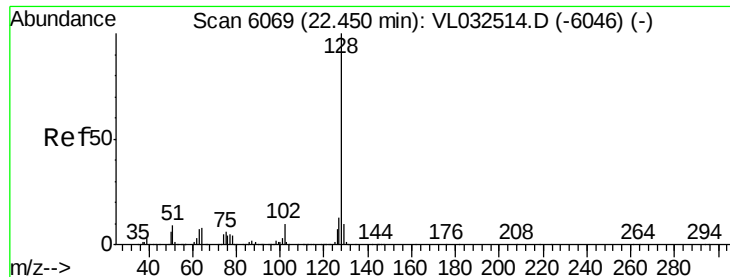
apatel
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#78
 Hexachloro-1,3-Butadiene
 Concen: 11.890 ppbv
 RT: 23.58 min Scan# 6420
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.6	76.0
227	63.7	51.2	76.8





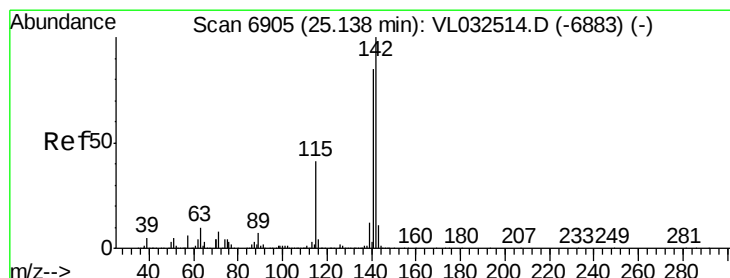
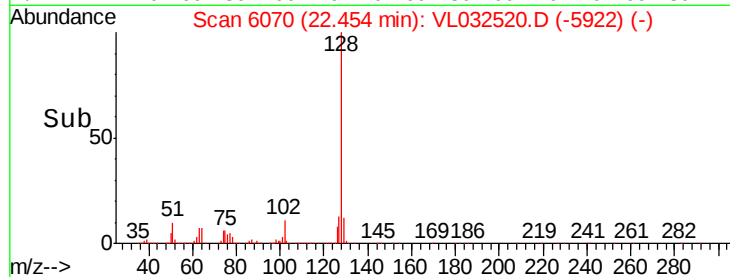
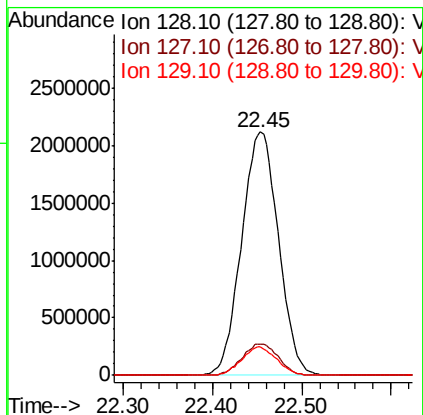
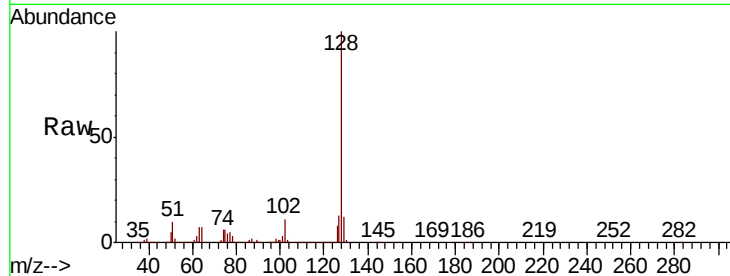
#79
Naphthalene
Concen: 15.572 ppbv
RT: 22.45 min Scan# 6070
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	12.0	8.5	12.7

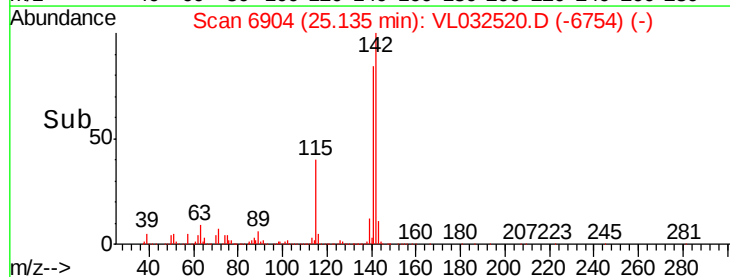
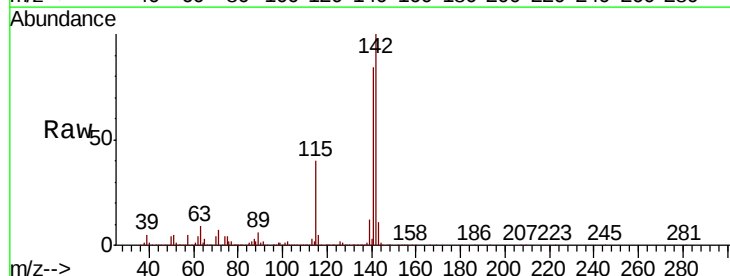
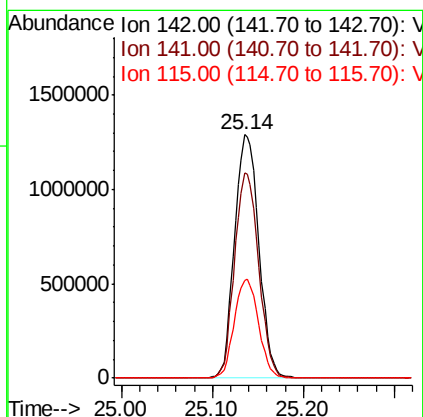
Manual Integrations
APPROVED

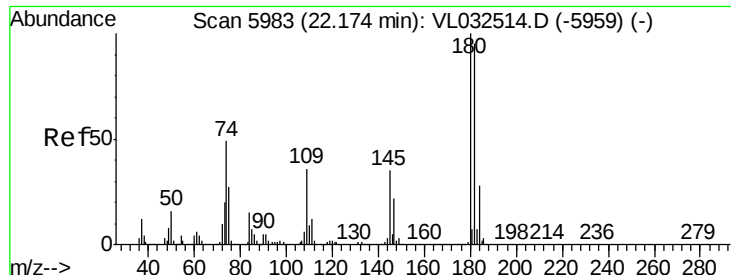
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#80
Naphthalene, 2-methyl-
Concen: 23.104 ppbv
RT: 25.14 min Scan# 6904
Delta R.T. -0.02 min
Lab File: VL032520.D
Acq: 24 Sep 2018 20:21

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.8	67.0	100.6
115	40.4	31.3	46.9





#81
 1,2,4-Trichlorobenzene
 Concen: 14.386 ppbv
 RT: 22.18 min Scan# 5985
 Delta R.T. -0.02 min
 Lab File: VL032520.D
 Acq: 24 Sep 2018 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.1	114.1
184	30.2	23.8	35.8

Manual Integrations
 APPROVED

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